

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
 Data File : VF062724.D  
 Acq On : 23 May 2019 14:01  
 Operator : FY/SY  
 Sample : K2647-13  
 Misc : 6.82g/5mL/MSVOA F/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 SU-03-052219-B

## 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\_F\METHODS\82F051619S.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         | 1.134       | 58            | 61          | 69           | rBV3     | 57012          | 233564        | 7.78%           | 0.604%        |
| 2         | 2.288       | 176           | 178         | 180          | rBV2     | 23296          | 51849         | 1.73%           | 0.134%        |
| 3         | 2.347       | 181           | 184         | 189          | rVB5     | 35125          | 97310         | 3.24%           | 0.252%        |
| 4         | 2.495       | 196           | 199         | 206          | rVB2     | 37389          | 86019         | 2.87%           | 0.222%        |
| 5         | 3.135       | 263           | 264         | 269          | rVB      | 29351          | 36367         | 1.21%           | 0.094%        |
| 6         | 4.308       | 376           | 383         | 394          | rBV2     | 508615         | 1605532       | 53.48%          | 4.153%        |
| 7         | 5.048       | 451           | 458         | 468          | rBV2     | 892089         | 3001971       | 100.00%         | 7.764%        |
| 8         | 5.777       | 526           | 532         | 542          | rBV      | 1085341        | 2793385       | 93.05%          | 7.225%        |
| 9         | 6.309       | 584           | 586         | 590          | rBV      | 59752          | 49959         | 1.66%           | 0.129%        |
| 10        | 7.709       | 718           | 728         | 734          | rBV      | 1164549        | 2858060       | 95.21%          | 7.392%        |
| 11        | 9.907       | 944           | 951         | 960          | rBV      | 1168907        | 2660103       | 88.61%          | 6.880%        |
| 12        | 10.026      | 960           | 963         | 966          | rVB3     | 18684          | 43512         | 1.45%           | 0.113%        |
| 13        | 10.262      | 981           | 987         | 992          | rBV2     | 45593          | 100842        | 3.36%           | 0.261%        |
| 14        | 10.824      | 1040          | 1044        | 1047         | rVB      | 44177          | 86925         | 2.90%           | 0.225%        |
| 15        | 11.208      | 1077          | 1083        | 1085         | rVV4     | 18140          | 36546         | 1.22%           | 0.095%        |
| 16        | 11.346      | 1093          | 1097        | 1101         | rVB7     | 18699          | 45280         | 1.51%           | 0.117%        |
| 17        | 11.494      | 1108          | 1112        | 1118         | rBV      | 1011599        | 1641220       | 54.67%          | 4.245%        |
| 18        | 11.632      | 1122          | 1126        | 1128         | rBV3     | 28238          | 40169         | 1.34%           | 0.104%        |
| 19        | 11.672      | 1128          | 1130        | 1133         | rBV      | 53796          | 73652         | 2.45%           | 0.190%        |
| 20        | 11.731      | 1133          | 1136        | 1138         | rVV      | 64761          | 98616         | 3.29%           | 0.255%        |
| 21        | 11.790      | 1138          | 1142        | 1147         | rVV      | 168992         | 339082        | 11.30%          | 0.877%        |
| 22        | 11.898      | 1150          | 1153        | 1156         | rBV      | 92174          | 142567        | 4.75%           | 0.369%        |
| 23        | 12.056      | 1164          | 1169        | 1170         | rBV3     | 61047          | 100899        | 3.36%           | 0.261%        |
| 24        | 12.086      | 1170          | 1172        | 1176         | rVB      | 140847         | 197778        | 6.59%           | 0.512%        |
| 25        | 12.273      | 1187          | 1191        | 1196         | rVB      | 469576         | 760535        | 25.33%          | 1.967%        |
| 26        | 12.362      | 1196          | 1200        | 1205         | rBV2     | 41252          | 103509        | 3.45%           | 0.268%        |
| 27        | 12.441      | 1205          | 1208        | 1210         | rBV2     | 44868          | 85920         | 2.86%           | 0.222%        |
| 28        | 12.480      | 1210          | 1212        | 1214         | rVV2     | 79392          | 149366        | 4.98%           | 0.386%        |
| 29        | 12.510      | 1214          | 1215        | 1221         | rVB3     | 71388          | 123859        | 4.13%           | 0.320%        |
| 30        | 12.608      | 1221          | 1225        | 1229         | rBV      | 1419472        | 2257705       | 75.21%          | 5.839%        |
| 31        | 12.667      | 1229          | 1231        | 1235         | rVV      | 383500         | 542045        | 18.06%          | 1.402%        |
| 32        | 12.776      | 1239          | 1242        | 1245         | rVV3     | 331915         | 576856        | 19.22%          | 1.492%        |
| 33        | 12.825      | 1245          | 1247        | 1249         | rVV      | 250102         | 403116        | 13.43%          | 1.043%        |
| 34        | 12.864      | 1249          | 1251        | 1260         | rVB3     | 456158         | 1026145       | 34.18%          | 2.654%        |

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 ClientSampleId :  
 SU-03-052219-B

## Integration Parameters: RTEINT.P

Integrator: RTE  
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 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\_F\METHODS\82F051619S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 12.983 | 1260 | 1263 | 1265 | rBV3 | 73433  | 118700  | 3.95%  | 0.307% |
| 36 | 13.052 | 1268 | 1270 | 1274 | rVV  | 193639 | 287241  | 9.57%  | 0.743% |
| 37 | 13.131 | 1274 | 1278 | 1283 | rVV2 | 241232 | 661985  | 22.05% | 1.712% |
| 38 | 13.200 | 1283 | 1285 | 1287 | rVV  | 285663 | 403141  | 13.43% | 1.043% |
| 39 | 13.278 | 1291 | 1293 | 1297 | rVV2 | 242532 | 558032  | 18.59% | 1.443% |
| 40 | 13.338 | 1297 | 1299 | 1302 | rVV3 | 121427 | 258723  | 8.62%  | 0.669% |
| 41 | 13.377 | 1302 | 1303 | 1306 | rVV2 | 84218  | 142404  | 4.74%  | 0.368% |
| 42 | 13.426 | 1306 | 1308 | 1310 | rVV2 | 136278 | 183153  | 6.10%  | 0.474% |
| 43 | 13.466 | 1310 | 1312 | 1316 | rVV  | 170581 | 308418  | 10.27% | 0.798% |
| 44 | 13.535 | 1316 | 1319 | 1322 | rVV2 | 187495 | 336749  | 11.22% | 0.871% |
| 45 | 13.584 | 1322 | 1324 | 1326 | rVV  | 282809 | 422105  | 14.06% | 1.092% |
| 46 | 13.623 | 1326 | 1328 | 1330 | rVV2 | 112943 | 189603  | 6.32%  | 0.490% |
| 47 | 13.653 | 1330 | 1331 | 1338 | rVV2 | 91609  | 221578  | 7.38%  | 0.573% |
| 48 | 13.752 | 1338 | 1341 | 1344 | rVV2 | 823615 | 1332002 | 44.37% | 3.445% |
| 49 | 13.801 | 1344 | 1346 | 1349 | rVV3 | 139427 | 275017  | 9.16%  | 0.711% |
| 50 | 13.850 | 1349 | 1351 | 1352 | rVV  | 124759 | 156187  | 5.20%  | 0.404% |
| 51 | 13.890 | 1352 | 1355 | 1359 | rVV3 | 775209 | 1486993 | 49.53% | 3.846% |
| 52 | 13.949 | 1359 | 1361 | 1364 | rVV2 | 159036 | 283855  | 9.46%  | 0.734% |
| 53 | 14.008 | 1364 | 1367 | 1371 | rVV  | 569129 | 805200  | 26.82% | 2.083% |
| 54 | 14.087 | 1373 | 1375 | 1376 | rVV  | 94154  | 128656  | 4.29%  | 0.333% |
| 55 | 14.116 | 1376 | 1378 | 1381 | rVV  | 191057 | 270535  | 9.01%  | 0.700% |
| 56 | 14.185 | 1381 | 1385 | 1388 | rVV5 | 257042 | 648840  | 21.61% | 1.678% |
| 57 | 14.254 | 1388 | 1392 | 1395 | rVV2 | 248750 | 542994  | 18.09% | 1.404% |
| 58 | 14.333 | 1398 | 1400 | 1403 | rVV3 | 86198  | 119591  | 3.98%  | 0.309% |
| 59 | 14.392 | 1403 | 1406 | 1408 | rVV4 | 44295  | 93255   | 3.11%  | 0.241% |
| 60 | 14.442 | 1408 | 1411 | 1414 | rVV2 | 228552 | 463631  | 15.44% | 1.199% |
| 61 | 14.491 | 1414 | 1416 | 1424 | rVV4 | 456801 | 960166  | 31.98% | 2.483% |
| 62 | 14.589 | 1424 | 1426 | 1428 | rVV2 | 72108  | 111772  | 3.72%  | 0.289% |
| 63 | 14.629 | 1428 | 1430 | 1433 | rVV2 | 194830 | 294593  | 9.81%  | 0.762% |
| 64 | 14.678 | 1433 | 1435 | 1437 | rVV2 | 22423  | 38803   | 1.29%  | 0.100% |
| 65 | 14.767 | 1441 | 1444 | 1448 | rVV  | 601009 | 873888  | 29.11% | 2.260% |
| 66 | 14.856 | 1451 | 1453 | 1454 | rVV  | 48252  | 62408   | 2.08%  | 0.161% |
| 67 | 14.915 | 1454 | 1459 | 1463 | rVV4 | 120114 | 337759  | 11.25% | 0.874% |
| 68 | 14.974 | 1463 | 1465 | 1467 | rVB3 | 46609  | 65575   | 2.18%  | 0.170% |
| 69 | 15.023 | 1467 | 1470 | 1473 | rBV2 | 308182 | 476410  | 15.87% | 1.232% |
| 70 | 15.141 | 1478 | 1482 | 1484 | rVV  | 422023 | 631613  | 21.04% | 1.634% |
| 71 | 15.191 | 1484 | 1487 | 1490 | rVV3 | 116283 | 275697  | 9.18%  | 0.713% |

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Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

## 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\_F\METHODS\82F051619S.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 72 | 15.279 | 1493 | 1496 | 1497 | rVV3 | 45886  | 96426  | 3.21% | 0.249% |
| 73 | 15.309 | 1497 | 1499 | 1502 | rVV  | 125287 | 218254 | 7.27% | 0.564% |
| 74 | 15.368 | 1502 | 1505 | 1509 | rVV3 | 113121 | 296182 | 9.87% | 0.766% |
| 75 | 15.437 | 1509 | 1512 | 1515 | rVV2 | 67388  | 136105 | 4.53% | 0.352% |
| 76 | 15.555 | 1519 | 1524 | 1526 | rVV6 | 29696  | 97824  | 3.26% | 0.253% |
| 77 | 15.585 | 1526 | 1527 | 1530 | rVV2 | 26777  | 47431  | 1.58% | 0.123% |
| 78 | 15.624 | 1530 | 1531 | 1533 | rVV2 | 22452  | 31133  | 1.04% | 0.081% |
| 79 | 15.674 | 1533 | 1536 | 1540 | rVB  | 109961 | 212455 | 7.08% | 0.549% |
| 80 | 15.743 | 1540 | 1543 | 1546 | rBV5 | 23957  | 48197  | 1.61% | 0.125% |
| 81 | 15.812 | 1547 | 1550 | 1552 | rVV2 | 40323  | 64903  | 2.16% | 0.168% |
| 82 | 15.851 | 1552 | 1554 | 1557 | rVB4 | 19249  | 33088  | 1.10% | 0.086% |
| 83 | 15.969 | 1563 | 1566 | 1568 | rBV3 | 21848  | 46050  | 1.53% | 0.119% |
| 84 | 16.019 | 1568 | 1571 | 1576 | rVB6 | 22838  | 58271  | 1.94% | 0.151% |

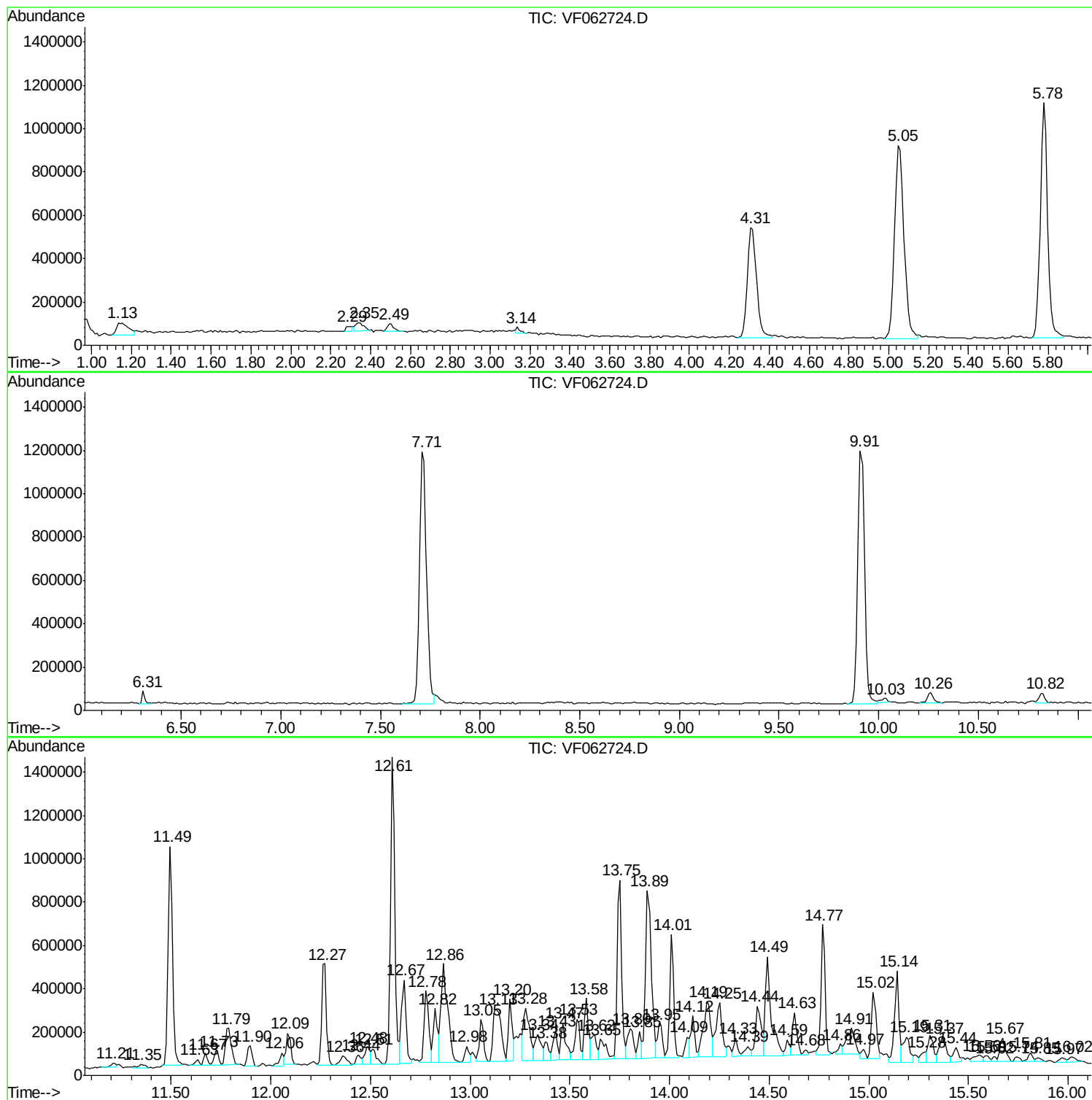
Sum of corrected areas: 38663854

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Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
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Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

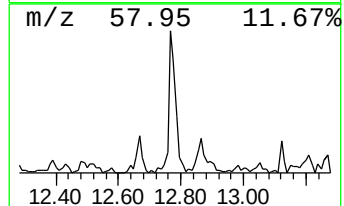
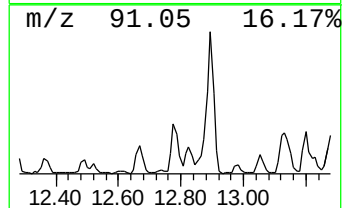
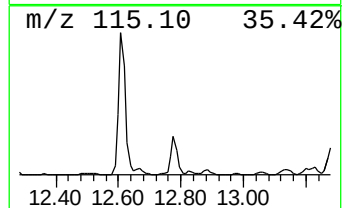
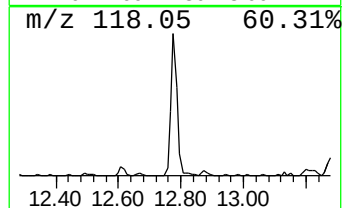
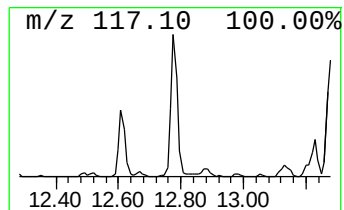
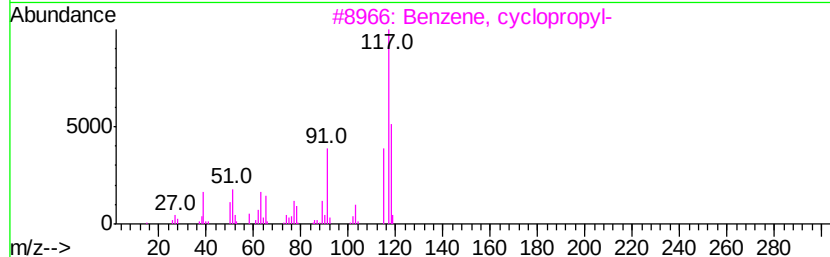
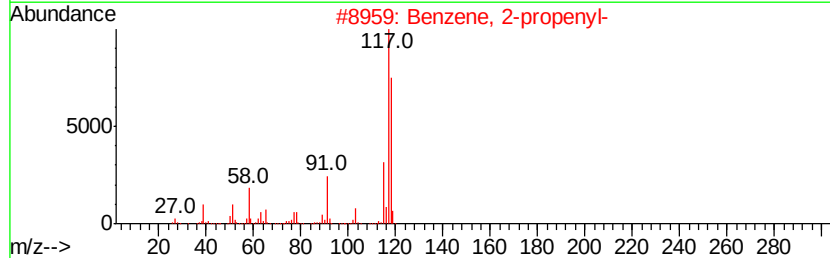
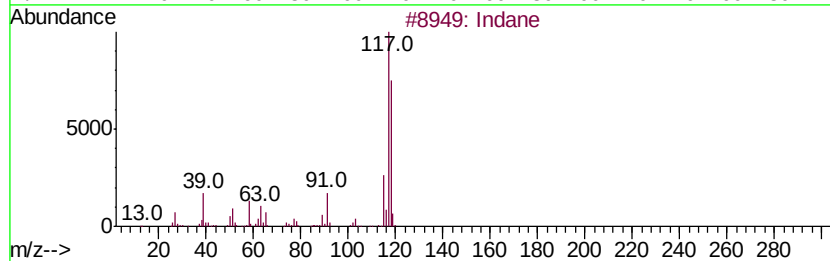
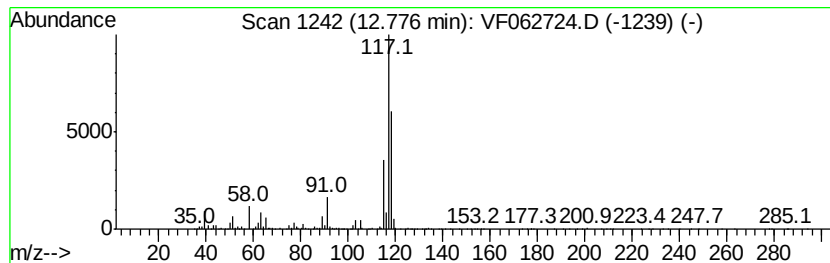
Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Indane Concentration Rank 8

| R.T.    | EstConc                      | Area         | Relative to ISTD       | R.T.           |
|---------|------------------------------|--------------|------------------------|----------------|
| 12.78   | 12.78 ug/l                   | 576856       | 1,4-Dichlorobenzene-d4 | 12.61          |
| Hit# of | 5                            | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | Indane                       |              | 118 C9H10              | 000496-11-7 96 |
| 2       | Benzene, 2-propenyl-         |              | 118 C9H10              | 000300-57-2 87 |
| 3       | Benzene, cyclopropyl-        |              | 118 C9H10              | 000873-49-4 81 |
| 4       | Benzene, 1-ethenyl-2-methyl- |              | 118 C9H10              | 000611-15-4 80 |
| 5       | Benzene, 1-propenyl-         |              | 118 C9H10              | 000637-50-3 74 |



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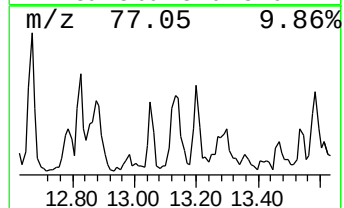
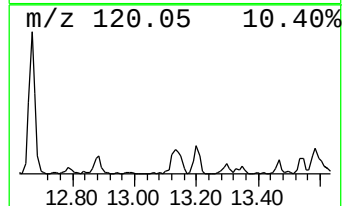
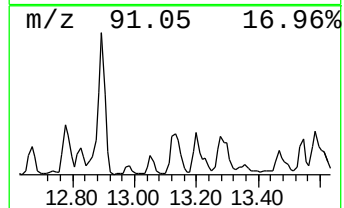
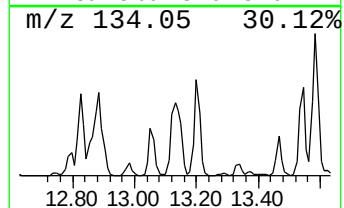
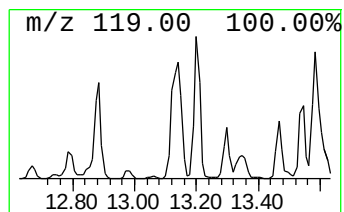
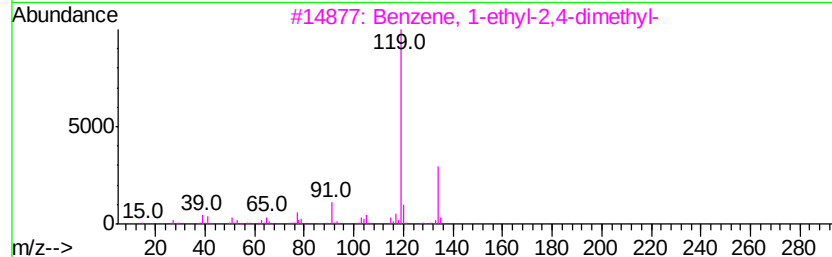
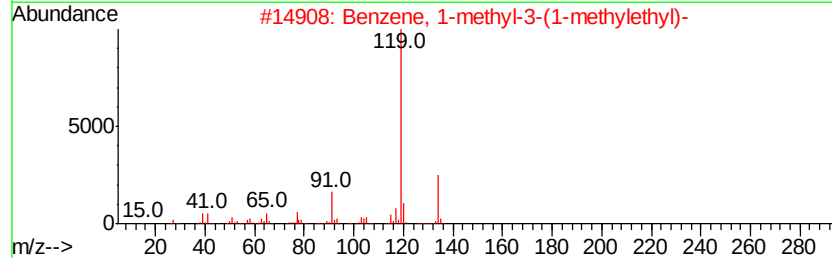
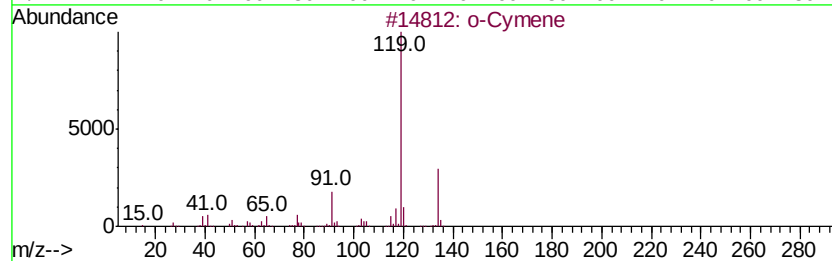
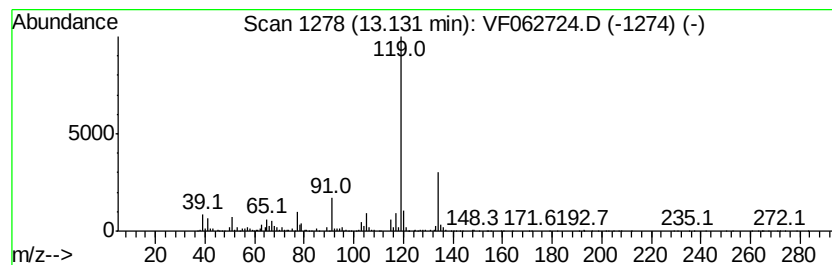
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 o-Cymene Concentration Rank 5

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 13.13   | 14.66 ug/l | 661985                              | 1,4-Dichlorobenzene-d4 | 12.61          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | o-Cymene                            | 134 C10H14             | 000527-84-4 95 |
| 2       |            | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14             | 000535-77-3 95 |
| 3       |            | Benzene, 1-ethyl-2,4-dimethyl-      | 134 C10H14             | 000874-41-9 94 |
| 4       |            | Benzene, 2-ethyl-1,4-dimethyl-      | 134 C10H14             | 001758-88-9 94 |
| 5       |            | p-Cymene                            | 134 C10H14             | 000099-87-6 94 |



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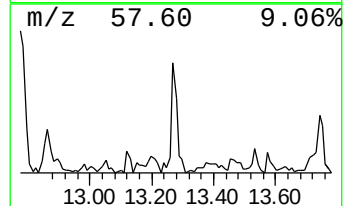
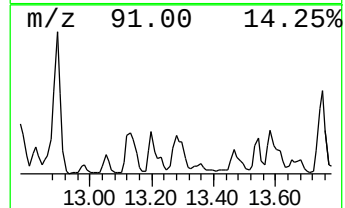
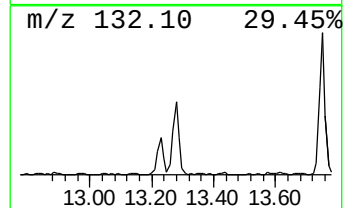
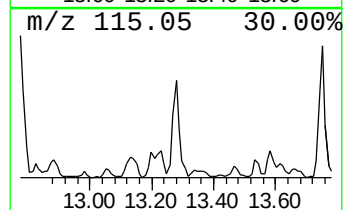
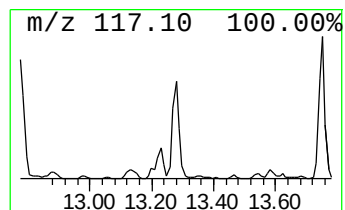
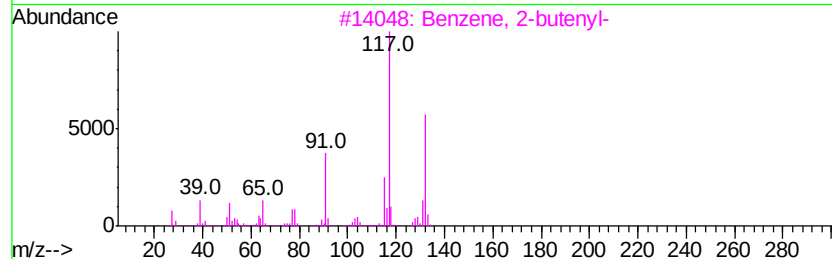
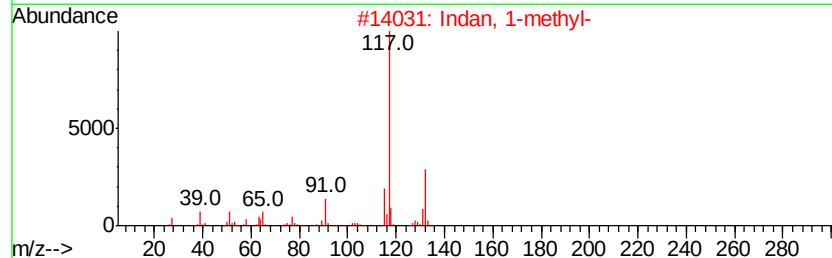
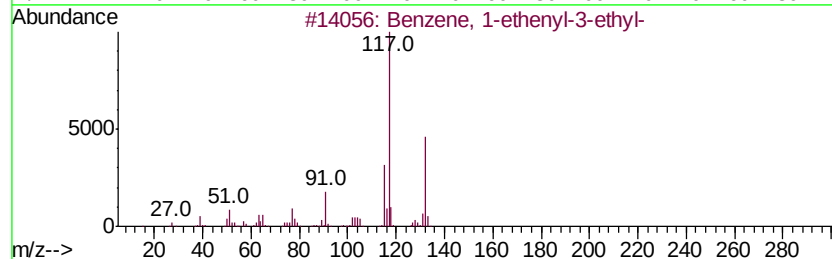
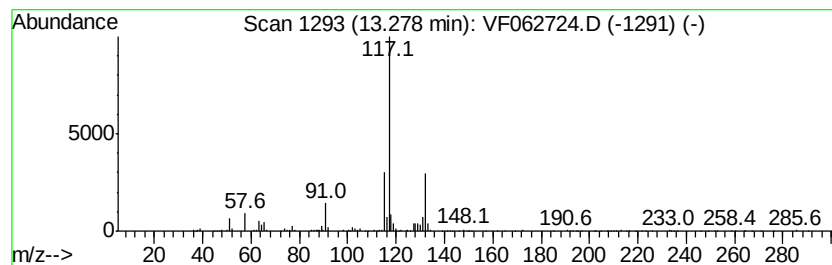
Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 3 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 9

| R.T.    | EstConc    | Area                             | Relative to ISTD       | R.T.           |
|---------|------------|----------------------------------|------------------------|----------------|
| 13.28   | 12.36 ug/l | 558032                           | 1,4-Dichlorobenzene-d4 | 12.61          |
| Hit# of | 5          | Tentative ID                     | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 1-ethenyl-3-ethyl-      | 132 C10H12             | 007525-62-4 83 |
| 2       |            | Indan, 1-methyl-                 | 132 C10H12             | 000767-58-8 81 |
| 3       |            | Benzene, 2-butenyl-              | 132 C10H12             | 001560-06-1 78 |
| 4       |            | 1H-Indene, 2,3-dihydro-4-methyl- | 132 C10H12             | 000824-22-6 72 |
| 5       |            | 1H-Indene, 2,3-dihydro-2-methyl- | 132 C10H12             | 000824-63-5 72 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

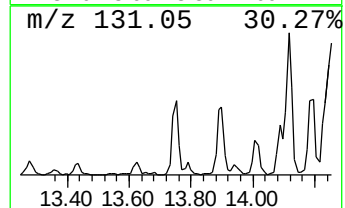
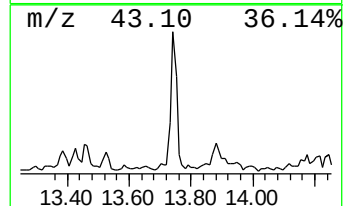
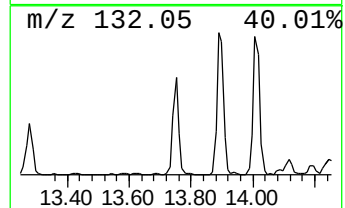
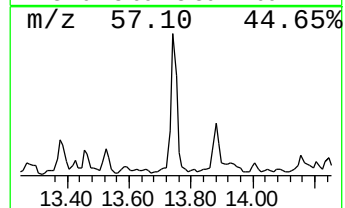
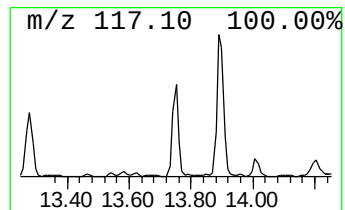
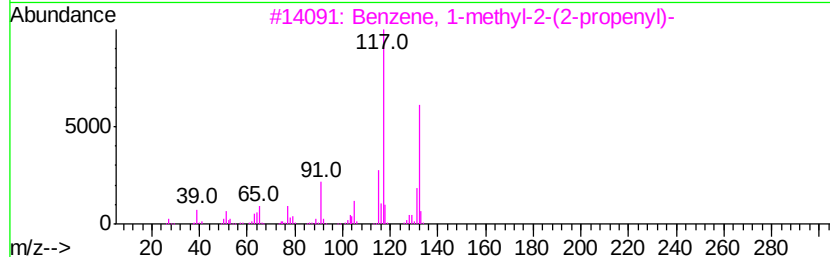
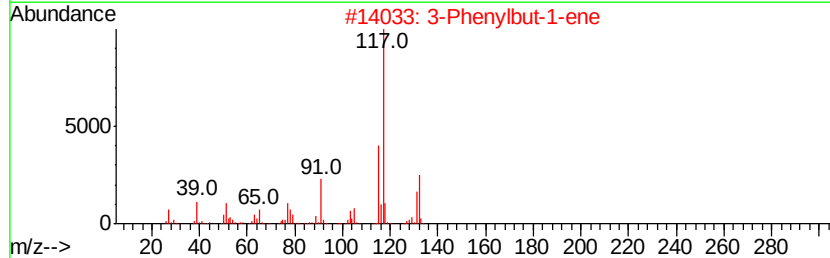
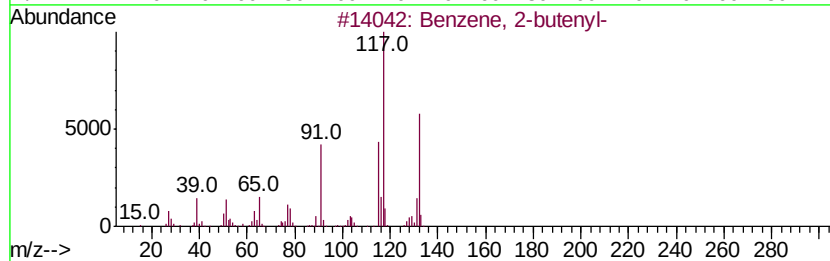
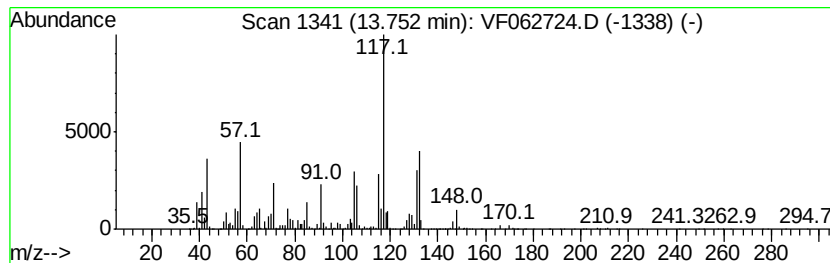
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ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Benzene, 2-butenyl- Concentration Rank 2

| R.T.    | EstConc    | Area                              | Relative to ISTD       | R.T.           |
|---------|------------|-----------------------------------|------------------------|----------------|
| 13.75   | 29.50 ug/l | 1332000                           | 1,4-Dichlorobenzene-d4 | 12.61          |
| Hit# of | 5          | Tentative ID                      | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, 2-butenyl-               | 132 C10H12             | 001560-06-1 83 |
| 2       |            | 3-Phenylbut-1-ene                 | 132 C10H12             | 000934-10-1 70 |
| 3       |            | Benzene, 1-methyl-2-(2-propenyl)- | 132 C10H12             | 001587-04-8 70 |
| 4       |            | 1H-Indene, 2,3-dihydro-5-methyl-  | 132 C10H12             | 000874-35-1 64 |
| 5       |            | 1-Phenyl-1-butene                 | 132 C10H12             | 000824-90-8 64 |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

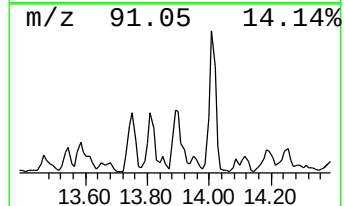
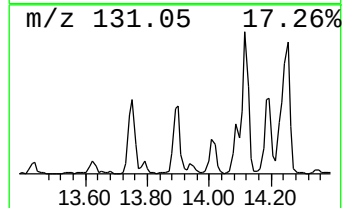
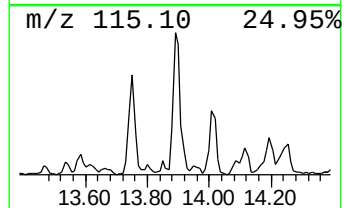
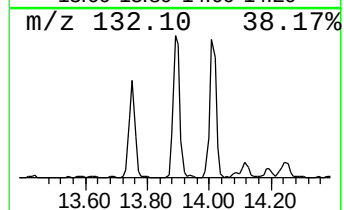
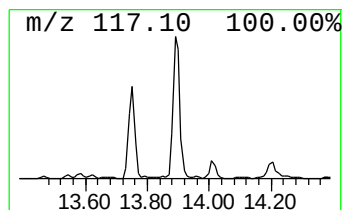
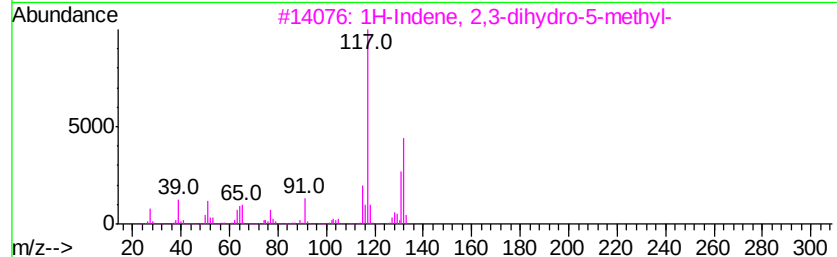
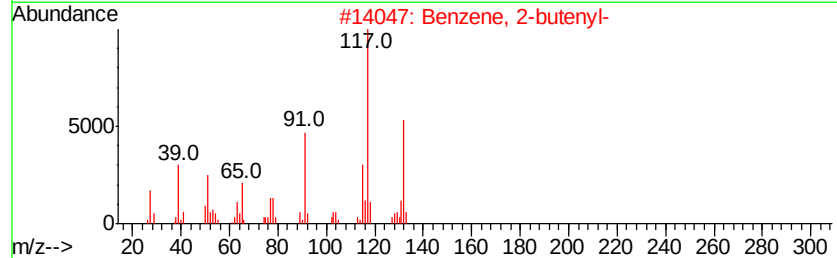
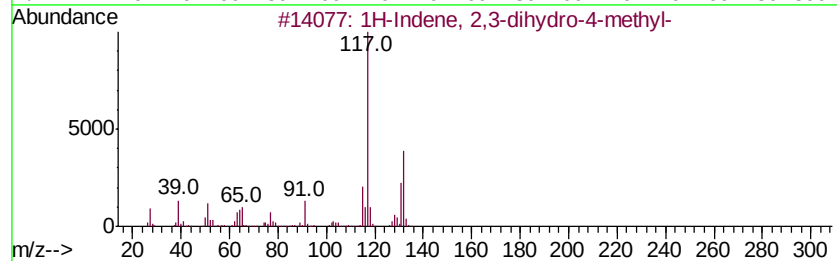
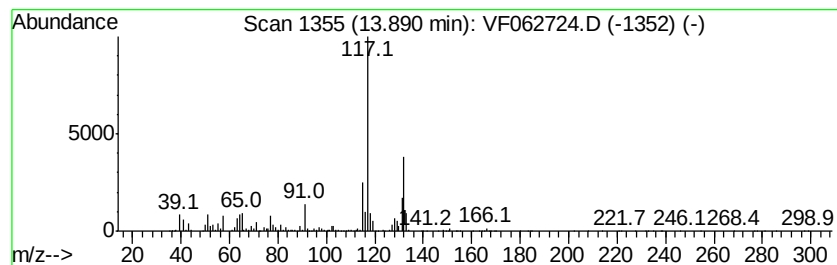
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 1

| R.T.  | EstConc    | Area    | Relative to ISTD       | R.T.  |
|-------|------------|---------|------------------------|-------|
| 13.89 | 32.93 ug/l | 1486990 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------------|-----|---------|-------------|------|
| 1       |   | 1H-Indene, 2,3-dihydro-4-methyl-  | 132 | C10H12  | 000824-22-6 | 91   |
| 2       |   | Benzene, 2-butenyl-               | 132 | C10H12  | 001560-06-1 | 91   |
| 3       |   | 1H-Indene, 2,3-dihydro-5-methyl-  | 132 | C10H12  | 000874-35-1 | 87   |
| 4       |   | 1H-Indene, 2,3-dihydro-2-methyl-  | 132 | C10H12  | 000824-63-5 | 87   |
| 5       |   | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 87   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

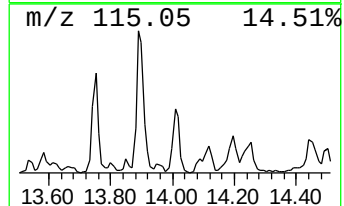
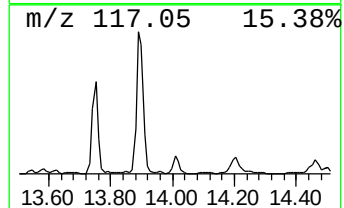
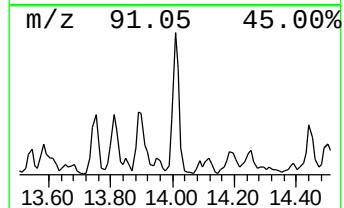
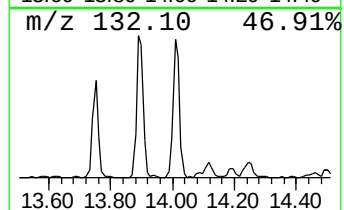
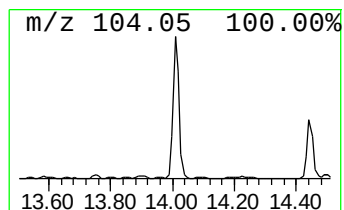
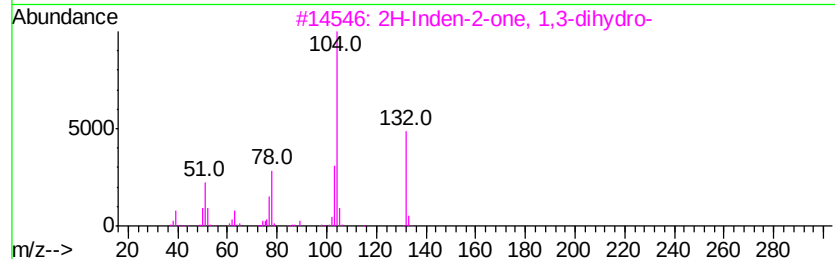
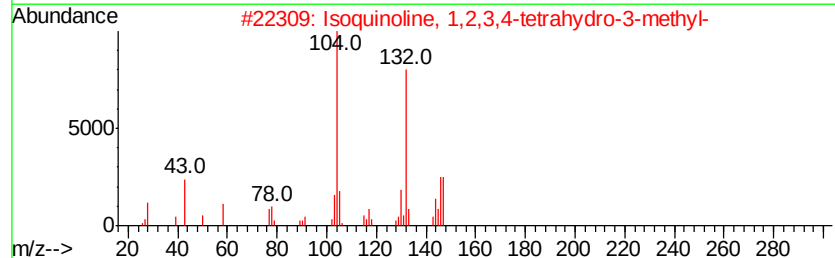
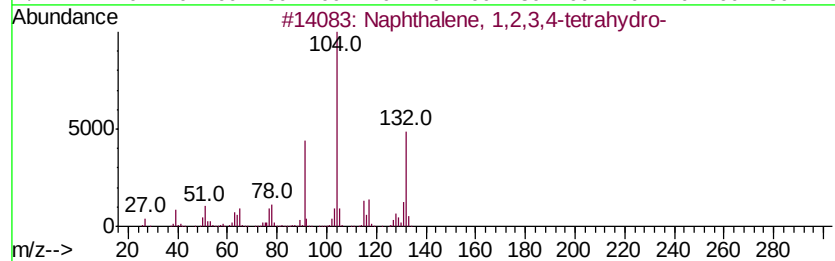
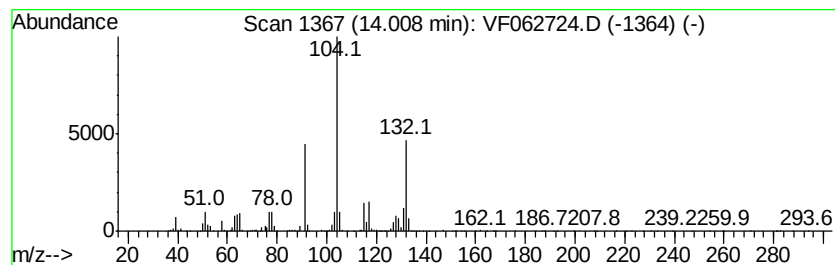
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.01 | 17.83 ug/l | 805200 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-    | 132 | C10H12   | 000119-64-2 | 97   |
| 2    |    | Isoquinoline, 1,2,3,4-tetrahydro... | 147 | C10H13N  | 029726-60-1 | 64   |
| 3    |    | 2H-Inden-2-one, 1,3-dihydro-        | 132 | C9H8O    | 000615-13-4 | 53   |
| 4    |    | 2-Furancarboxylic acid, 2-phenyl... | 216 | C13H12O3 | 007149-32-8 | 43   |
| 5    |    | Indan, epoxide                      | 132 | C9H8O    | 000768-22-9 | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

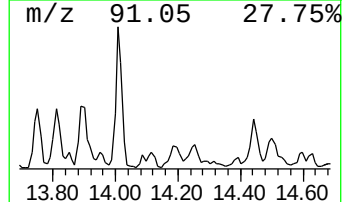
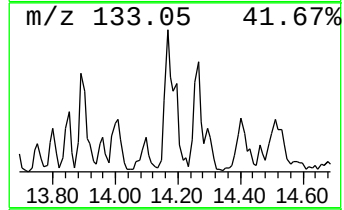
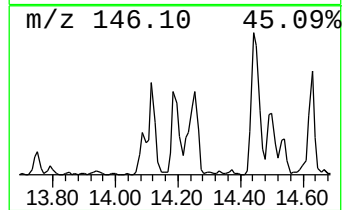
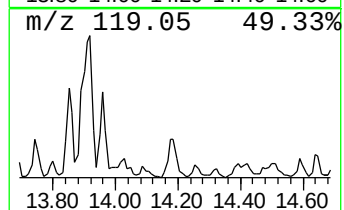
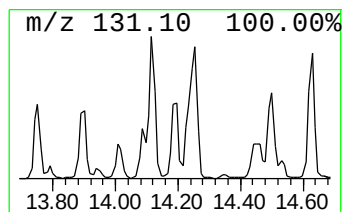
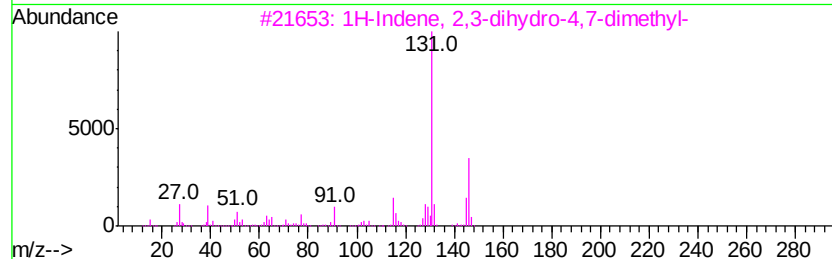
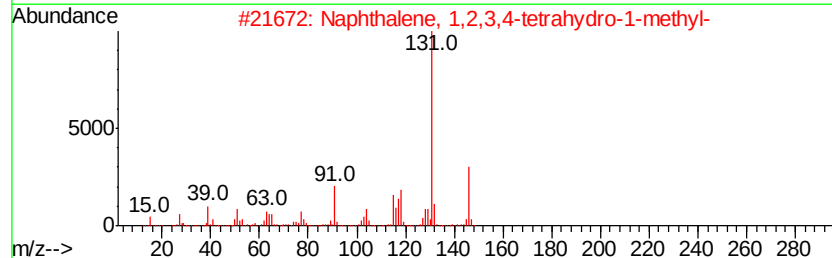
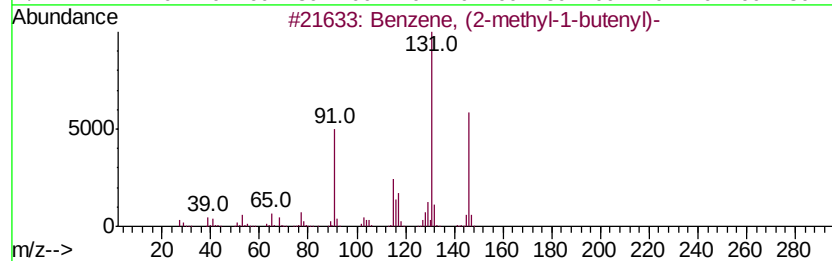
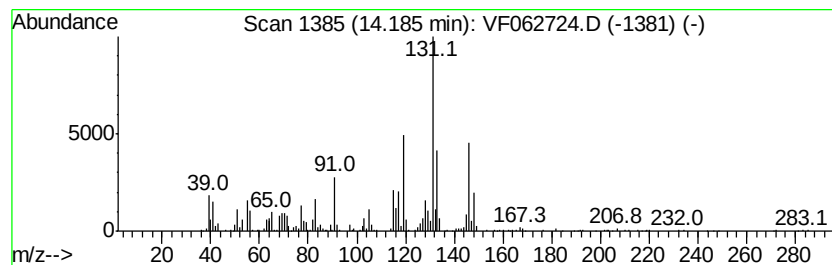
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzene, (2-methyl-1-butenyl)- Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.19 | 14.37 ug/l | 648840 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 91   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001559-81-5 | 83   |
| 3    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 70   |
| 4    |    | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14  | 004175-53-5 | 55   |
| 5    |    | Benzene, (1-methyl-1-butenyl)-      | 146 | C11H14  | 053172-84-2 | 55   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

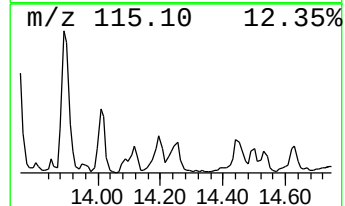
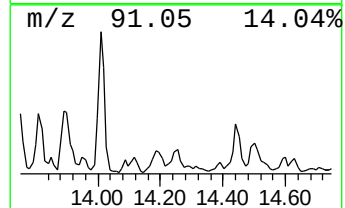
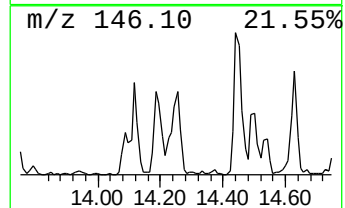
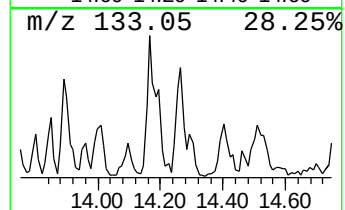
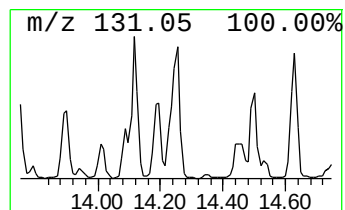
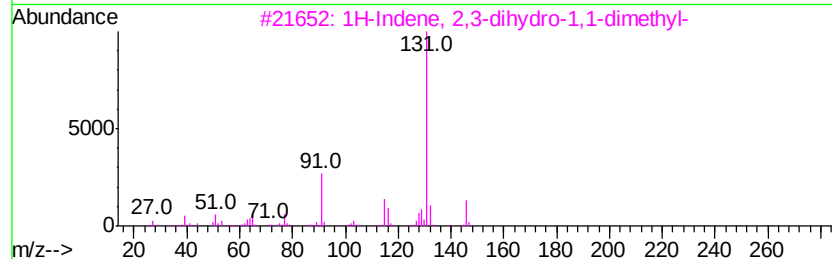
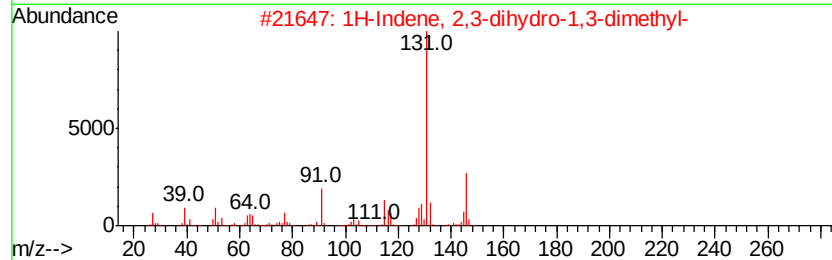
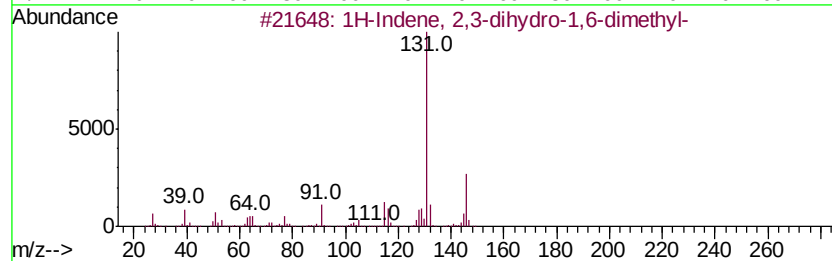
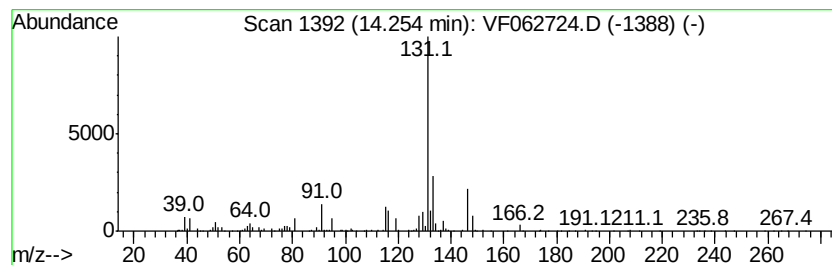
Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 10

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.25   | 12.03 ug/l                          | 542994       | 1,4-Dichlorobenzene-d4 | 12.61     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 C11H14   | 017059-48-2            | 81        |
| 2       | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 C11H14   | 004175-53-5            | 74        |
| 3       | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 C11H14   | 004912-92-9            | 72        |
| 4       | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14   | 001559-81-5            | 72        |
| 5       | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 C11H14   | 027087-54-3            | 72        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleID :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

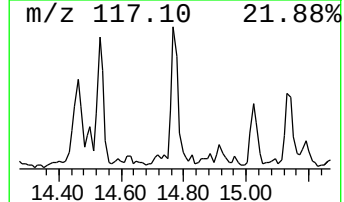
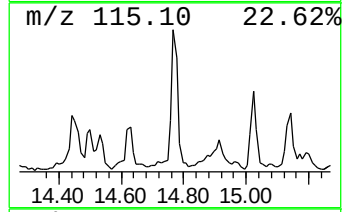
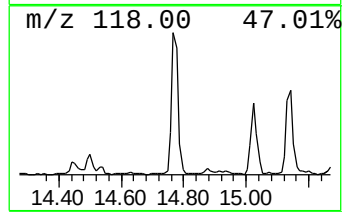
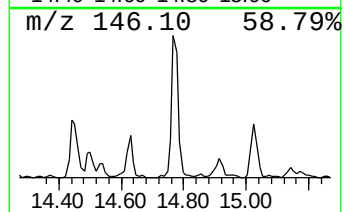
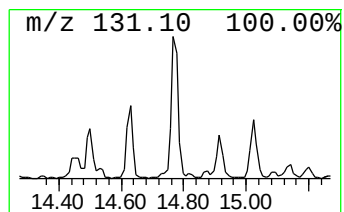
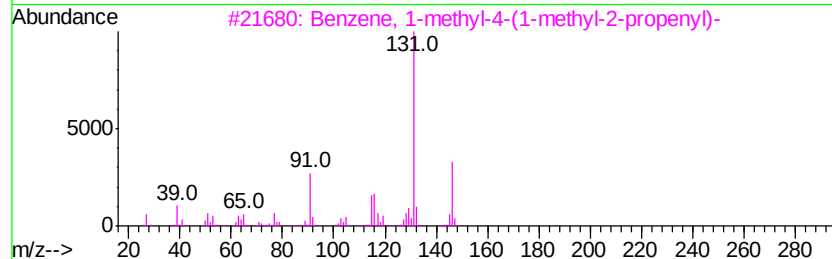
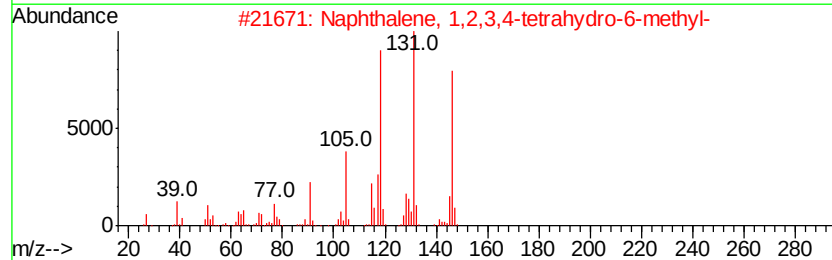
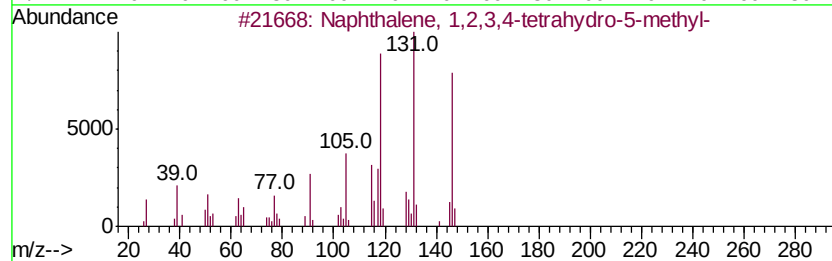
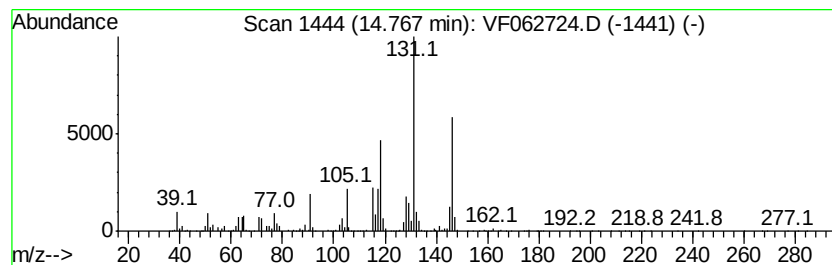
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.77 | 19.35 ug/l | 873888 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 96   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9 | 94   |
| 3    |    | Benzene, 1-methyl-4-(1-methyl-2-... | 146 | C11H14  | 097664-18-1 | 64   |
| 4    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 62   |
| 5    |    | Benzene, (2-methyl-1-butenyl)-      | 146 | C11H14  | 056253-64-6 | 62   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

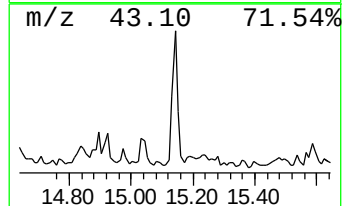
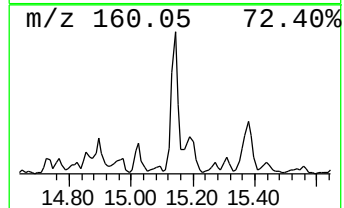
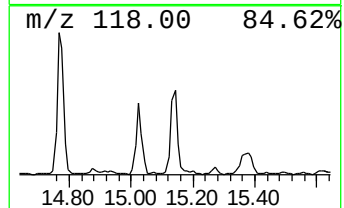
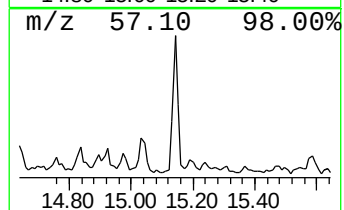
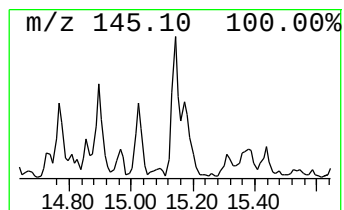
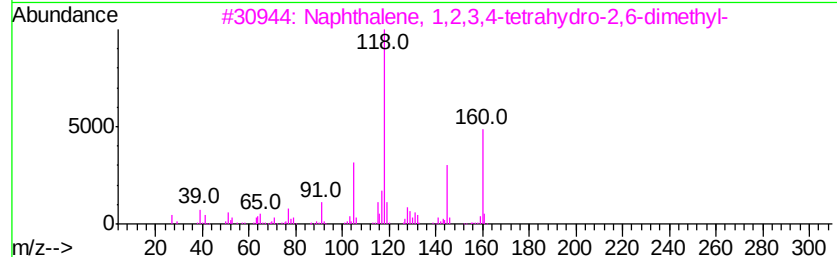
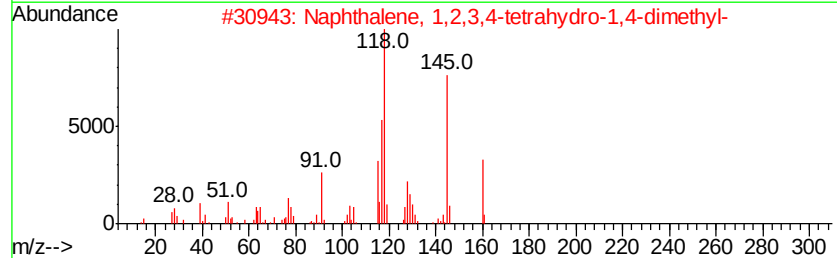
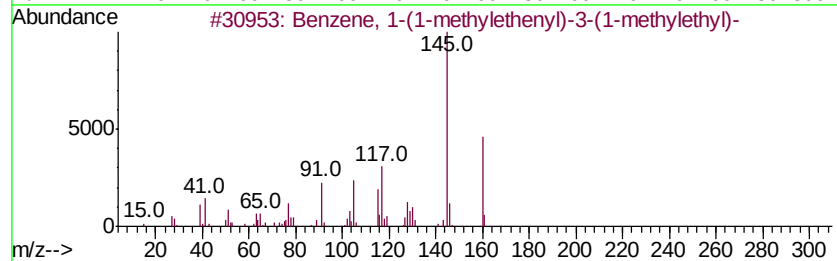
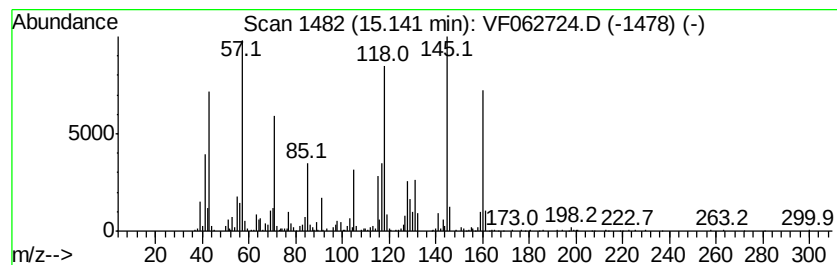
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1-(1-methylethenyl)... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.14 | 13.99 ug/l | 631613 | 1,4-Dichlorobenzene-d4 | 12.61 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-(1-methylethenyl)-3-(... | 160 | C12H16  | 001129-29-9 | 89   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 86   |
| 3    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2 | 55   |
| 4    |    | 1(2H)-Naphthalenone, 3,4-dihydro... | 160 | C11H12O | 001590-08-5 | 49   |
| 5    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 020027-77-4 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF052319\  
Data File : VF062724.D  
Acq On : 23 May 2019 14:01  
Operator : FY/SY  
Sample : K2647-13  
Misc : 6.82g/5mL/MSVOA\_F/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
SU-03-052219-B

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.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 |
| Indane               | 12.78 | 12.8    | ug/l  | 576856   | 4                     | 12.61 | 2257710 | 50.0 |
| o-Cymene             | 13.13 | 14.7    | ug/l  | 661985   | 4                     | 12.61 | 2257710 | 50.0 |
| Benzene, 1-etheny... | 13.28 | 12.4    | ug/l  | 558032   | 4                     | 12.61 | 2257710 | 50.0 |
| Benzene, 2-butenyl-  | 13.75 | 29.5    | ug/l  | 1332000  | 4                     | 12.61 | 2257710 | 50.0 |
| 1H-Indene, 2,3-di... | 13.89 | 32.9    | ug/l  | 1486990  | 4                     | 12.61 | 2257710 | 50.0 |
| Naphthalene, 1,2,... | 14.01 | 17.8    | ug/l  | 805200   | 4                     | 12.61 | 2257710 | 50.0 |
| Benzene, (2-methy... | 14.19 | 14.4    | ug/l  | 648840   | 4                     | 12.61 | 2257710 | 50.0 |
| 1H-Indene, 2,3-di... | 14.25 | 12.0    | ug/l  | 542994   | 4                     | 12.61 | 2257710 | 50.0 |
| Naphthalene, 1,2,... | 14.77 | 19.4    | ug/l  | 873888   | 4                     | 12.61 | 2257710 | 50.0 |
| Benzene, 1-(1-met... | 15.14 | 14.0    | ug/l  | 631613   | 4                     | 12.61 | 2257710 | 50.0 |