

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
 Data File : VF060745.D  
 Acq On : 15 Nov 2018 14:27  
 Operator : VA/AP  
 Sample : J5915-08  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-8

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\82F111318S.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         | 1.989       | 131           | 138         | 141          | rBV      | 278302         | 747197        | 7.67%           | 0.441%        |
| 2         | 2.166       | 151           | 156         | 159          | rBV      | 131269         | 339969        | 3.49%           | 0.201%        |
| 3         | 2.364       | 171           | 176         | 185          | rBV      | 300276         | 686590        | 7.05%           | 0.405%        |
| 4         | 2.906       | 224           | 231         | 235          | rBV      | 126628         | 463222        | 4.76%           | 0.273%        |
| 5         | 3.735       | 306           | 315         | 322          | rBV      | 586792         | 2061975       | 21.17%          | 1.217%        |
| 6         | 3.863       | 322           | 328         | 334          | rVV3     | 232673         | 1189625       | 12.21%          | 0.702%        |
| 7         | 3.991       | 335           | 341         | 346          | rVV      | 562927         | 2159782       | 22.17%          | 1.274%        |
| 8         | 4.080       | 348           | 350         | 363          | rVB2     | 211671         | 610503        | 6.27%           | 0.360%        |
| 9         | 4.494       | 382           | 392         | 403          | rBV      | 546204         | 4260007       | 43.73%          | 2.513%        |
| 10        | 4.652       | 403           | 408         | 421          | rVB      | 570668         | 2250734       | 23.11%          | 1.328%        |
| 11        | 4.850       | 421           | 428         | 434          | rBV2     | 286129         | 1018946       | 10.46%          | 0.601%        |
| 12        | 5.431       | 477           | 487         | 497          | rBV3     | 104547         | 548028        | 5.63%           | 0.323%        |
| 13        | 5.579       | 497           | 502         | 505          | rVV      | 372603         | 986116        | 10.12%          | 0.582%        |
| 14        | 5.639       | 505           | 508         | 511          | rVV      | 251985         | 634262        | 6.51%           | 0.374%        |
| 15        | 5.708       | 511           | 515         | 523          | rVB4     | 279431         | 1010270       | 10.37%          | 0.596%        |
| 16        | 6.260       | 564           | 571         | 582          | rBV      | 477950         | 2404567       | 24.69%          | 1.419%        |
| 17        | 6.487       | 582           | 594         | 599          | rBV2     | 442884         | 2319517       | 23.81%          | 1.369%        |
| 18        | 6.576       | 599           | 603         | 607          | rBV      | 436139         | 1098628       | 11.28%          | 0.648%        |
| 19        | 6.803       | 616           | 626         | 640          | rVB      | 656428         | 2517370       | 25.84%          | 1.485%        |
| 20        | 7.010       | 640           | 647         | 654          | rBV3     | 94733          | 454167        | 4.66%           | 0.268%        |
| 21        | 7.128       | 654           | 659         | 666          | rVB      | 365023         | 1048029       | 10.76%          | 0.618%        |
| 22        | 7.464       | 688           | 693         | 697          | rBV      | 590460         | 1457948       | 14.97%          | 0.860%        |
| 23        | 7.542       | 697           | 701         | 705          | rVV      | 422723         | 996494        | 10.23%          | 0.588%        |
| 24        | 7.986       | 741           | 746         | 754          | rVB3     | 123172         | 375423        | 3.85%           | 0.221%        |
| 25        | 8.115       | 754           | 759         | 768          | rBV2     | 126295         | 423965        | 4.35%           | 0.250%        |
| 26        | 8.263       | 769           | 774         | 780          | rVB      | 161925         | 414543        | 4.26%           | 0.245%        |
| 27        | 8.440       | 788           | 792         | 801          | rVB      | 329512         | 955642        | 9.81%           | 0.564%        |
| 28        | 8.618       | 805           | 810         | 813          | rBV3     | 87795          | 277054        | 2.84%           | 0.163%        |
| 29        | 8.835       | 826           | 832         | 838          | rVB5     | 67872          | 282084        | 2.90%           | 0.166%        |
| 30        | 8.963       | 838           | 845         | 848          | rBV3     | 185770         | 511944        | 5.26%           | 0.302%        |
| 31        | 9.032       | 848           | 852         | 855          | rVV      | 123654         | 331544        | 3.40%           | 0.196%        |
| 32        | 9.101       | 855           | 859         | 867          | rVB      | 735047         | 1855788       | 19.05%          | 1.095%        |
| 33        | 9.279       | 872           | 877         | 886          | rVB      | 565119         | 1484693       | 15.24%          | 0.876%        |
| 34        | 9.505       | 894           | 900         | 905          | rBV3     | 184463         | 591172        | 6.07%           | 0.349%        |

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Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-8

## 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\82F111318S.M  
 Title : SW846 8260

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 9.673  | 911  | 917  | 922  | rBV3 | 175343  | 599063  | 6.15%   | 0.353% |
| 36 | 9.762  | 922  | 926  | 931  | rVB  | 574785  | 1260231 | 12.94%  | 0.744% |
| 37 | 9.880  | 931  | 938  | 943  | rVB3 | 911744  | 2179484 | 22.38%  | 1.286% |
| 38 | 9.969  | 943  | 947  | 953  | rVB2 | 180799  | 456565  | 4.69%   | 0.269% |
| 39 | 10.117 | 953  | 962  | 968  | rBV  | 1693730 | 3792215 | 38.93%  | 2.237% |
| 40 | 10.226 | 968  | 973  | 980  | rBV4 | 109401  | 339683  | 3.49%   | 0.200% |
| 41 | 10.334 | 980  | 984  | 988  | rBV2 | 187521  | 450178  | 4.62%   | 0.266% |
| 42 | 10.472 | 994  | 998  | 1004 | rBV2 | 180203  | 566687  | 5.82%   | 0.334% |
| 43 | 10.660 | 1013 | 1017 | 1018 | rBV  | 322829  | 574944  | 5.90%   | 0.339% |
| 44 | 10.699 | 1018 | 1021 | 1025 | rVV  | 819780  | 1565250 | 16.07%  | 0.923% |
| 45 | 11.034 | 1050 | 1055 | 1058 | rBV4 | 234695  | 636848  | 6.54%   | 0.376% |
| 46 | 11.113 | 1058 | 1063 | 1065 | rVV2 | 597121  | 1409506 | 14.47%  | 0.832% |
| 47 | 11.153 | 1065 | 1067 | 1069 | rVV  | 444658  | 688490  | 7.07%   | 0.406% |
| 48 | 11.212 | 1069 | 1073 | 1076 | rVV  | 510839  | 1078074 | 11.07%  | 0.636% |
| 49 | 11.261 | 1076 | 1078 | 1083 | rVB  | 525838  | 839789  | 8.62%   | 0.495% |
| 50 | 11.399 | 1089 | 1092 | 1097 | rVB2 | 455920  | 919526  | 9.44%   | 0.543% |
| 51 | 11.488 | 1097 | 1101 | 1104 | rVB3 | 110084  | 277134  | 2.85%   | 0.164% |
| 52 | 11.587 | 1108 | 1111 | 1115 | rVV  | 1343007 | 2140245 | 21.97%  | 1.263% |
| 53 | 11.646 | 1115 | 1117 | 1119 | rVV  | 563628  | 881473  | 9.05%   | 0.520% |
| 54 | 11.705 | 1119 | 1123 | 1128 | rVB  | 3746556 | 7830102 | 80.39%  | 4.620% |
| 55 | 11.814 | 1131 | 1134 | 1138 | rVB  | 2391963 | 3951683 | 40.57%  | 2.331% |
| 56 | 11.942 | 1143 | 1147 | 1149 | rBV3 | 135439  | 279315  | 2.87%   | 0.165% |
| 57 | 12.011 | 1149 | 1154 | 1157 | rBV  | 1749720 | 2844232 | 29.20%  | 1.678% |
| 58 | 12.060 | 1157 | 1159 | 1163 | rVB  | 307388  | 513238  | 5.27%   | 0.303% |
| 59 | 12.139 | 1164 | 1167 | 1169 | rBV2 | 158944  | 285708  | 2.93%   | 0.169% |
| 60 | 12.198 | 1169 | 1173 | 1177 | rVB  | 5771188 | 9740535 | 100.00% | 5.747% |
| 61 | 12.287 | 1178 | 1182 | 1187 | rBV2 | 766764  | 1449886 | 14.89%  | 0.855% |
| 62 | 12.376 | 1187 | 1191 | 1193 | rBV2 | 279642  | 500872  | 5.14%   | 0.296% |
| 63 | 12.425 | 1193 | 1196 | 1197 | rBV2 | 685866  | 1115104 | 11.45%  | 0.658% |
| 64 | 12.455 | 1197 | 1199 | 1201 | rVB  | 502818  | 673579  | 6.92%   | 0.397% |
| 65 | 12.534 | 1201 | 1207 | 1211 | rBV2 | 983044  | 2122784 | 21.79%  | 1.252% |
| 66 | 12.603 | 1211 | 1214 | 1218 | rVB  | 2086447 | 2979295 | 30.59%  | 1.758% |
| 67 | 12.731 | 1221 | 1227 | 1228 | rBV2 | 1626506 | 3156635 | 32.41%  | 1.862% |
| 68 | 12.771 | 1228 | 1231 | 1232 | rVV  | 2607631 | 4265313 | 43.79%  | 2.517% |
| 69 | 12.830 | 1232 | 1237 | 1241 | rVB3 | 3352678 | 9531972 | 97.86%  | 5.624% |
| 70 | 12.918 | 1241 | 1246 | 1249 | rBV2 | 309671  | 506075  | 5.20%   | 0.299% |
| 71 | 12.997 | 1251 | 1254 | 1258 | rVB  | 1521326 | 2141139 | 21.98%  | 1.263% |

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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
T-8

## 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\82F111318S.M  
Title : SW846 8260

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.086 | 1258 | 1263 | 1266 | rBV  | 2565720 | 6762018 | 69.42% | 3.990% |
| 73  | 13.145 | 1266 | 1269 | 1274 | rVB  | 3643551 | 5824146 | 59.79% | 3.436% |
| 74  | 13.224 | 1274 | 1277 | 1278 | rBV  | 875039  | 1317872 | 13.53% | 0.778% |
| 75  | 13.412 | 1294 | 1296 | 1301 | rBV  | 1112651 | 1548577 | 15.90% | 0.914% |
| 76  | 13.491 | 1301 | 1304 | 1306 | rBV  | 2423435 | 3302246 | 33.90% | 1.948% |
| 77  | 13.530 | 1306 | 1308 | 1311 | rBV  | 2705200 | 4609644 | 47.32% | 2.720% |
| 78  | 13.609 | 1314 | 1316 | 1318 | rBV  | 749326  | 895082  | 9.19%  | 0.528% |
| 79  | 13.698 | 1322 | 1325 | 1328 | rBV2 | 2383052 | 4152557 | 42.63% | 2.450% |
| 80  | 13.757 | 1328 | 1331 | 1333 | rVB3 | 650525  | 905781  | 9.30%  | 0.534% |
| 81  | 13.806 | 1333 | 1336 | 1338 | rBV  | 1168586 | 1521761 | 15.62% | 0.898% |
| 82  | 13.846 | 1338 | 1340 | 1344 | rBV2 | 2457469 | 4274808 | 43.89% | 2.522% |
| 83  | 13.915 | 1344 | 1347 | 1349 | rVB2 | 1294292 | 1904453 | 19.55% | 1.124% |
| 84  | 13.954 | 1349 | 1351 | 1355 | rVB2 | 324294  | 552894  | 5.68%  | 0.326% |
| 85  | 14.043 | 1357 | 1360 | 1361 | rBV  | 636729  | 897517  | 9.21%  | 0.530% |
| 86  | 14.073 | 1361 | 1363 | 1366 | rVB  | 1122381 | 1470446 | 15.10% | 0.868% |
| 87  | 14.142 | 1366 | 1370 | 1373 | rBV2 | 1519081 | 4114688 | 42.24% | 2.428% |
| 88  | 14.211 | 1374 | 1377 | 1384 | rVB2 | 1346457 | 2503459 | 25.70% | 1.477% |
| 89  | 14.349 | 1387 | 1391 | 1393 | rBV3 | 354637  | 655117  | 6.73%  | 0.387% |
| 90  | 14.418 | 1396 | 1398 | 1400 | rBV2 | 330820  | 619420  | 6.36%  | 0.365% |
| 91  | 14.447 | 1400 | 1401 | 1403 | rBV2 | 356768  | 406256  | 4.17%  | 0.240% |
| 92  | 14.556 | 1410 | 1412 | 1413 | rBV  | 300589  | 363921  | 3.74%  | 0.215% |
| 93  | 14.586 | 1413 | 1415 | 1418 | rVV  | 897967  | 1215478 | 12.48% | 0.717% |
| 94  | 14.734 | 1426 | 1430 | 1434 | rVV  | 769177  | 1474551 | 15.14% | 0.870% |
| 95  | 14.822 | 1436 | 1439 | 1440 | rVV2 | 222223  | 402133  | 4.13%  | 0.237% |
| 96  | 14.852 | 1440 | 1442 | 1449 | rVV3 | 480713  | 1422340 | 14.60% | 0.839% |
| 97  | 14.990 | 1453 | 1456 | 1461 | rBV2 | 241930  | 428544  | 4.40%  | 0.253% |
| 98  | 15.108 | 1464 | 1468 | 1470 | rVV2 | 277726  | 427575  | 4.39%  | 0.252% |
| 99  | 15.276 | 1481 | 1485 | 1488 | rVV  | 962002  | 1503805 | 15.44% | 0.887% |
| 100 | 15.394 | 1494 | 1497 | 1503 | rVB  | 387978  | 704289  | 7.23%  | 0.416% |

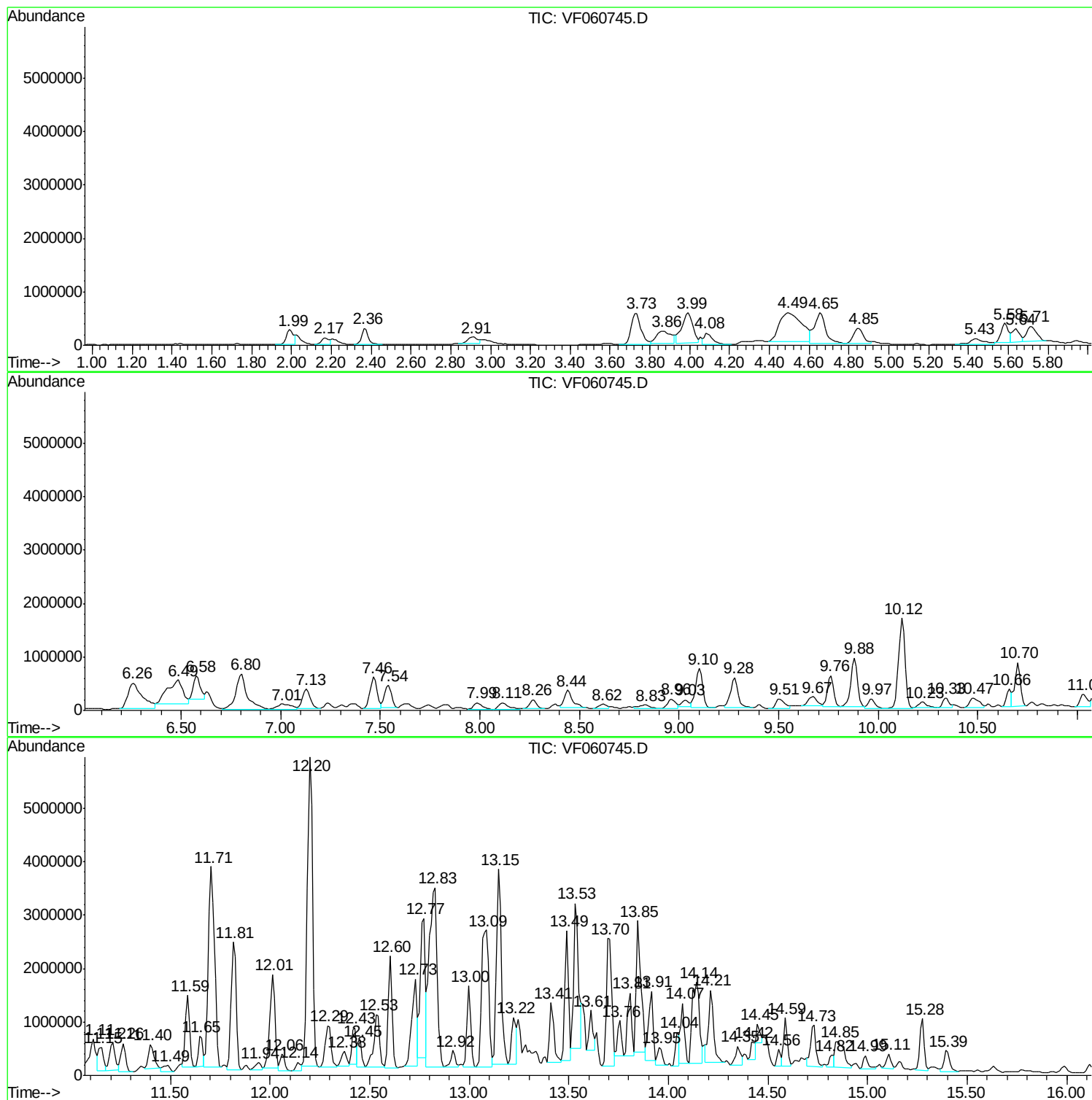
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Sample : J5915-08  
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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111518\  
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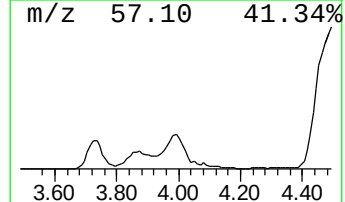
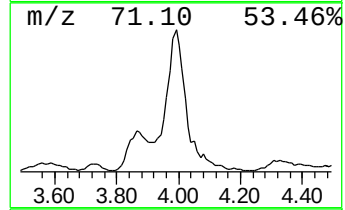
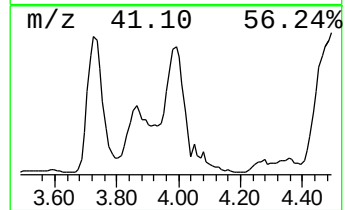
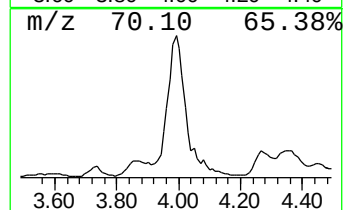
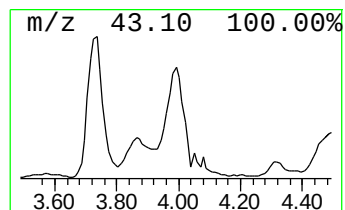
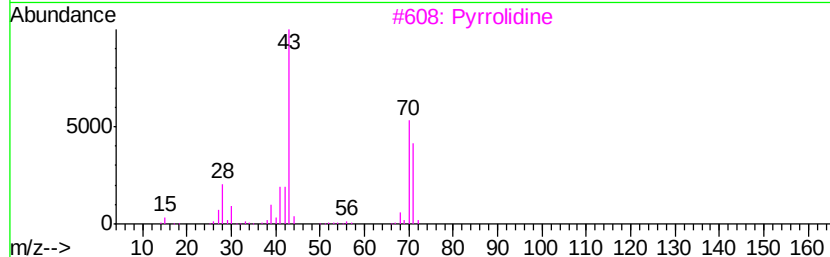
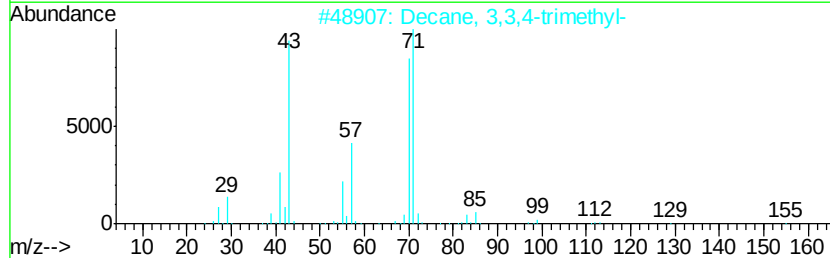
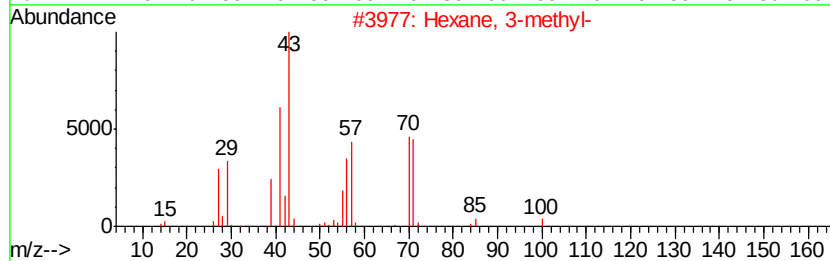
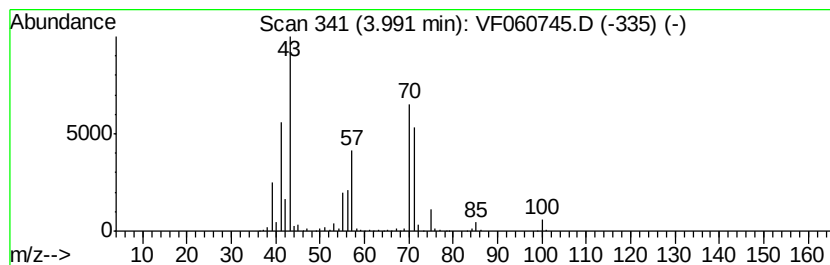
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 1 Hexane, 3-methyl- Concentration Rank 10

| R.T. | EstConc     | Area    | Relative to ISTD   | R.T. |
|------|-------------|---------|--------------------|------|
| 3.99 | 105.98 ug/l | 2159780 | Pentafluorobenzene | 4.86 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 3-methyl-         | 100 | C7H16   | 000589-34-4 | 74   |
| 2    |    | Decane, 3,3,4-trimethyl-  | 184 | C13H28  | 049622-18-6 | 53   |
| 3    |    | Pyrrolidine               | 71  | C4H9N   | 000123-75-1 | 53   |
| 4    |    | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 47   |
| 5    |    | Heptane                   | 100 | C7H16   | 000142-82-5 | 47   |



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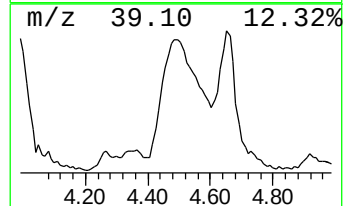
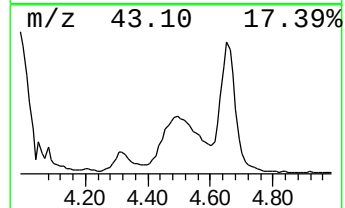
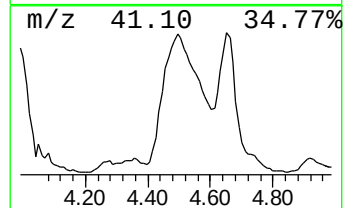
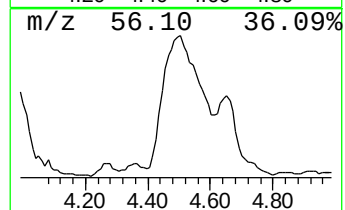
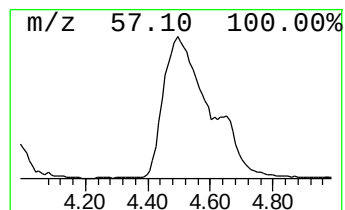
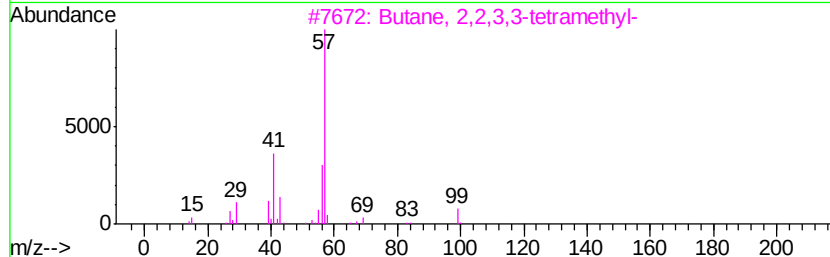
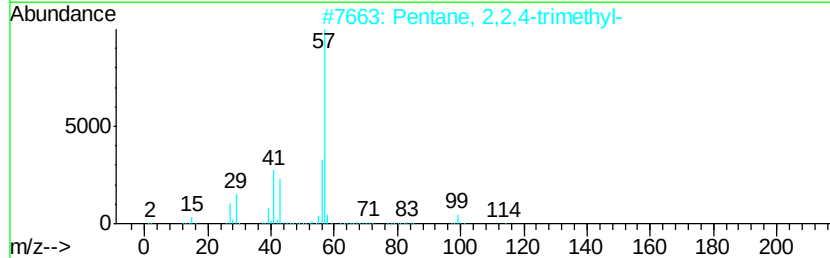
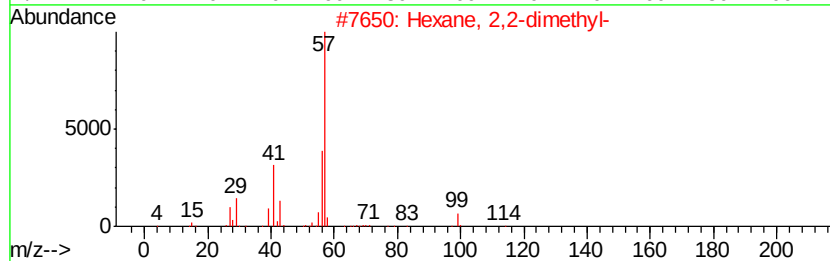
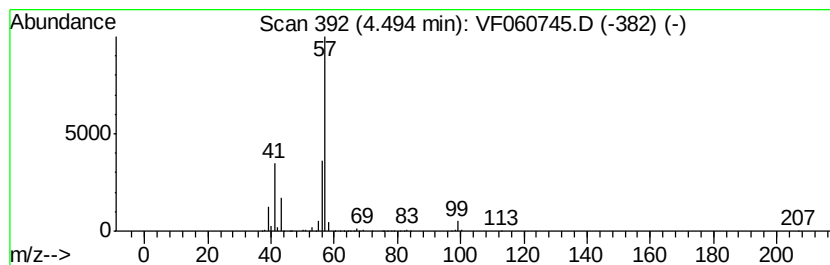
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 Hexane, 2,2-dimethyl- Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD   | R.T. |
|------|-------------|---------|--------------------|------|
| 4.49 | 209.04 ug/l | 4260010 | Pentafluorobenzene | 4.86 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 2,2-dimethyl-         | 114 | C8H18   | 000590-73-8 | 78   |
| 2    |    | Pentane, 2,2,4-trimethyl-     | 114 | C8H18   | 000540-84-1 | 78   |
| 3    |    | Butane, 2,2,3,3-tetramethyl-  | 114 | C8H18   | 000594-82-1 | 74   |
| 4    |    | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20   | 001070-87-7 | 50   |
| 5    |    | Hexane, 2,2,4-trimethyl-      | 128 | C9H20   | 016747-26-5 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
Operator : VA/AP  
Sample : J5915-08  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
T-8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

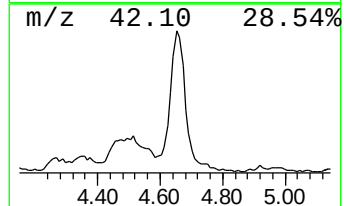
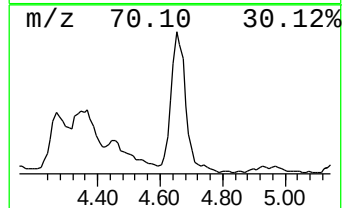
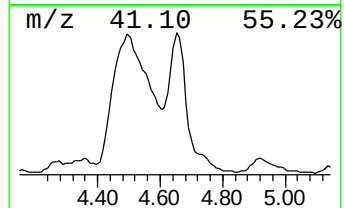
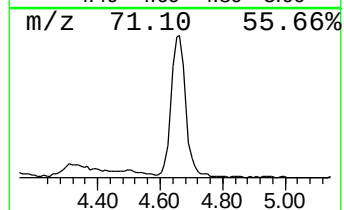
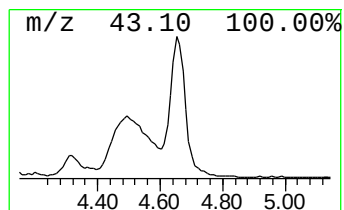
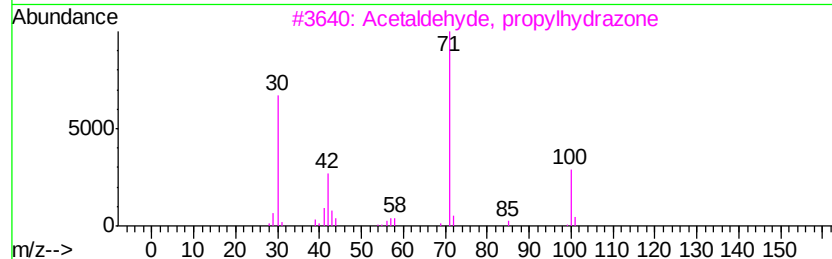
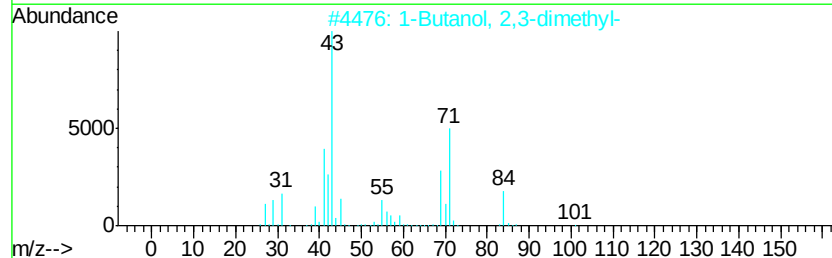
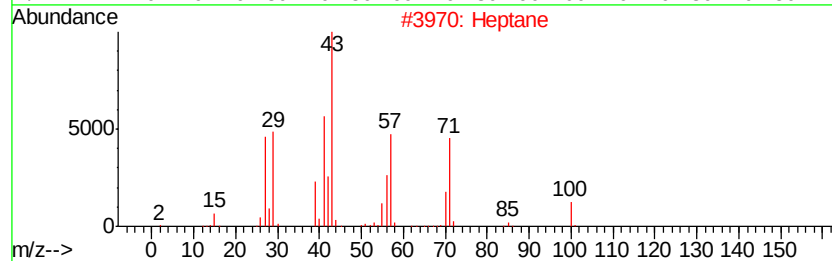
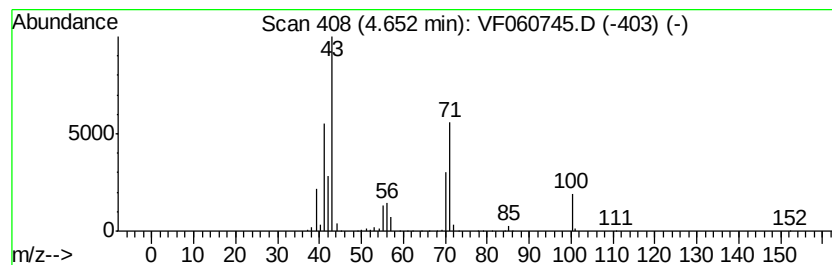
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TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc     | Area    | Relative to ISTD   | R.T. |
|------|-------------|---------|--------------------|------|
| 4.65 | 110.44 ug/l | 2250730 | Pentafluorobenzene | 4.86 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|-------------------------------------|--------------|-----|----------|-------------|------|
| 1       | Heptane                             |              | 100 | C7H16    | 000142-82-5 | 64   |
| 2       | 1-Butanol, 2,3-dimethyl-            |              | 102 | C6H14O   | 019550-30-2 | 59   |
| 3       | Acetaldehyde, propylhydrazone       |              | 100 | C5H12N2  | 007422-88-0 | 47   |
| 4       | 1-Pentanol, 2-methyl-               |              | 102 | C6H14O   | 000105-30-6 | 40   |
| 5       | Ethanedioic acid, bis(3-methylbu... |              | 230 | C12H22O4 | 002051-00-5 | 40   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
Operator : VA/AP  
Sample : J5915-08  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
T-8

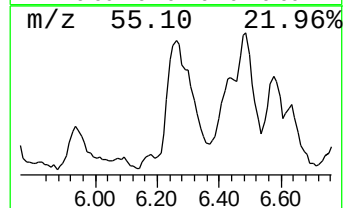
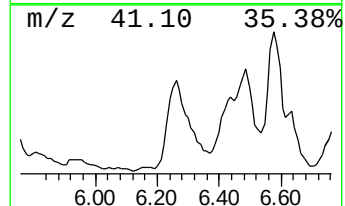
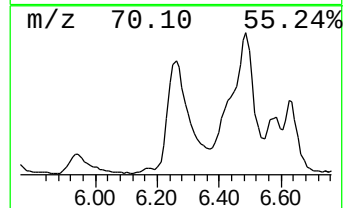
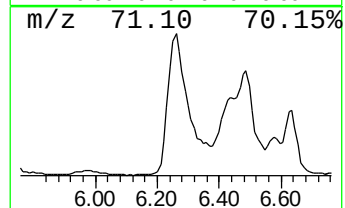
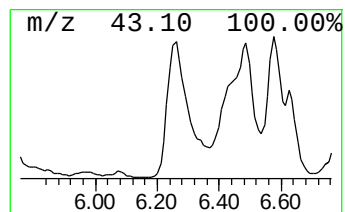
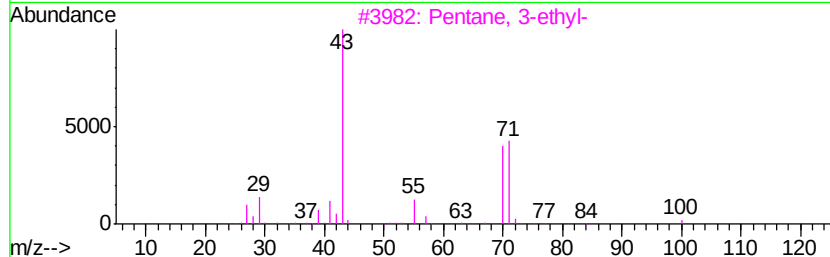
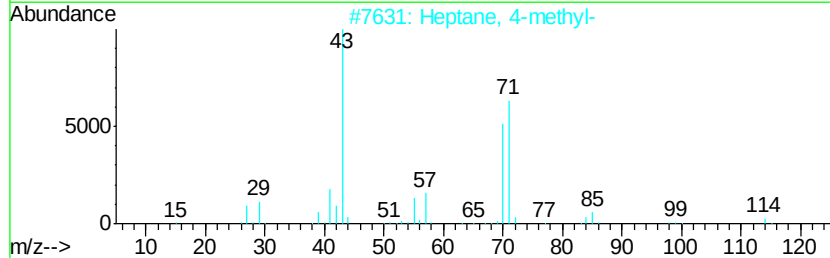
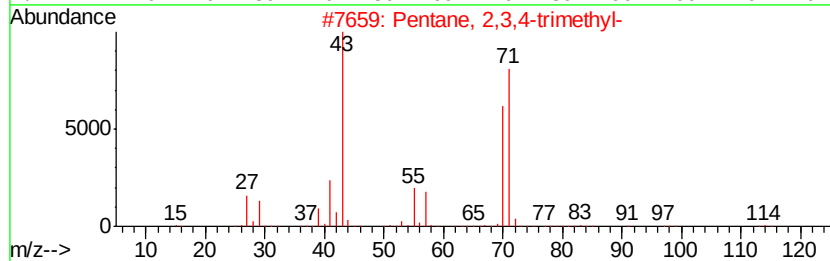
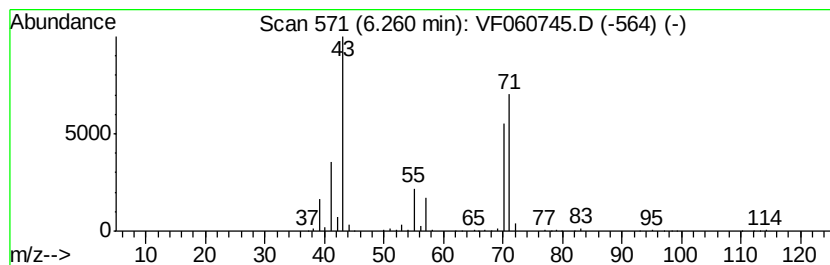
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Quant Title : SW846 8260

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

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Peak Number 4 Pentane, 2,3,4-trimethyl- Concentration Rank 6

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.26 | 121.92 ug/l | 2404570 | 1,4-Difluorobenzene | 5.58 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 91   |
| 2    |    | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 78   |
| 3    |    | Pentane, 3-ethyl-         | 100 | C7H16   | 000617-78-7 | 72   |
| 4    |    | Hexane, 3,3,4-trimethyl-  | 128 | C9H20   | 016747-31-2 | 72   |
| 5    |    | Hexane, 2,3-dimethyl-     | 114 | C8H18   | 000584-94-1 | 59   |





Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
Operator : VA/AP  
Sample : J5915-08  
Misc : 5.00g/5mL/MSV0A-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
T-8

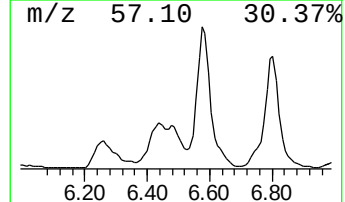
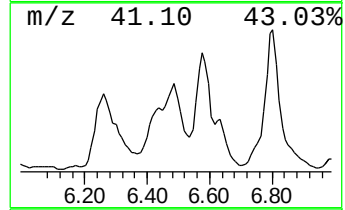
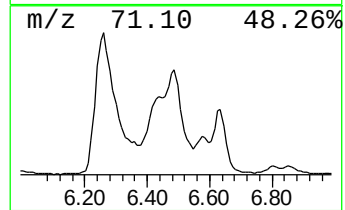
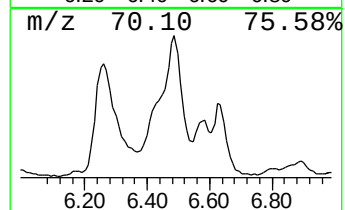
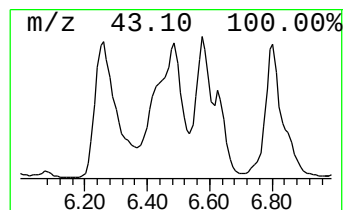
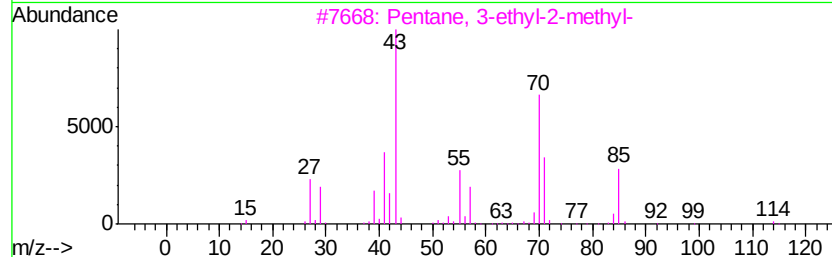
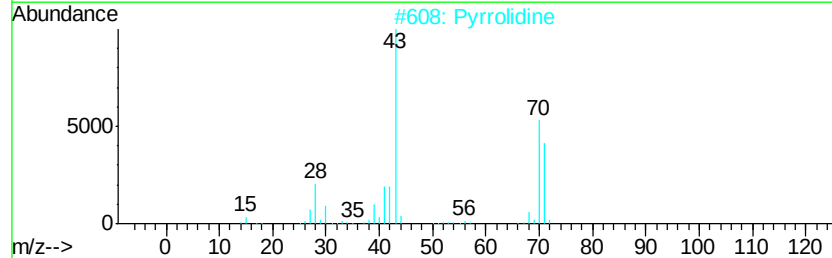
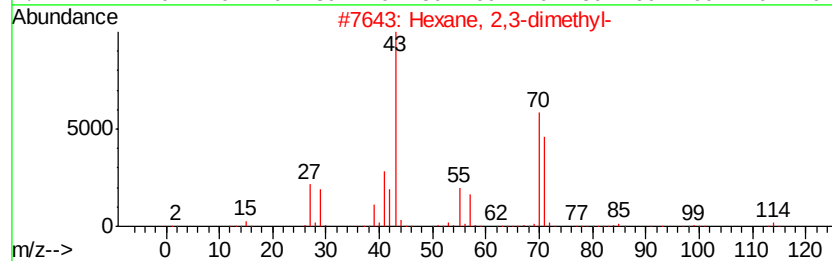
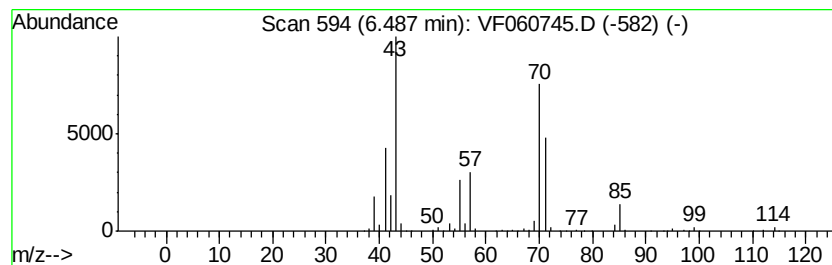
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Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Hexane, 2,3-dimethyl- Concentration Rank 7

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.49 | 117.61 ug/l | 2319520 | 1,4-Difluorobenzene | 5.58 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexane, 2,3-dimethyl-      | 114 | C8H18   | 000584-94-1 | 86   |
| 2    |    | Pyrrolidine                | 71  | C4H9N   | 000123-75-1 | 72   |
| 3    |    | Pentane, 3-ethyl-2-methyl- | 114 | C8H18   | 000609-26-7 | 72   |
| 4    |    | Octane, 4,5-dimethyl-      | 142 | C10H22  | 015869-96-2 | 64   |
| 5    |    | 2-Acetylpyrrolidine        | 113 | C6H11NO | 060026-20-2 | 50   |



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
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Sample : J5915-08  
Misc : 5.00g/5mL/MSV0A-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

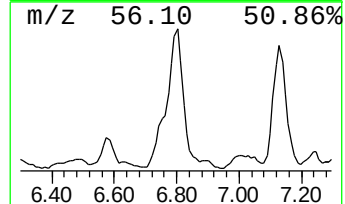
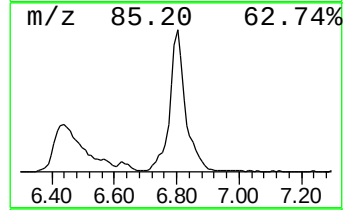
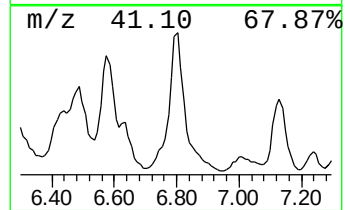
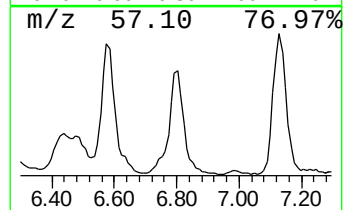
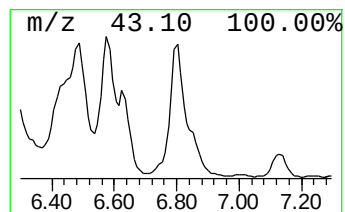
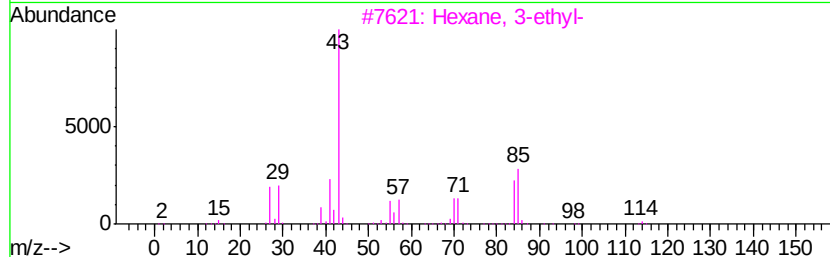
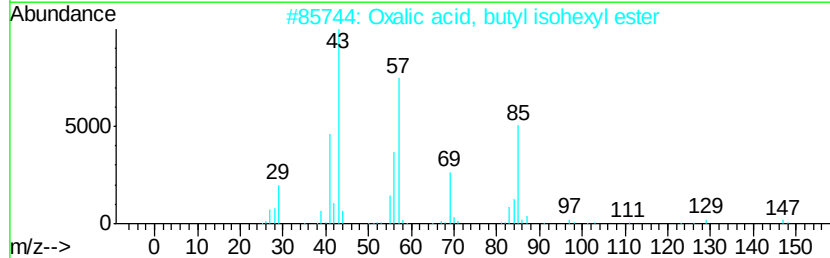
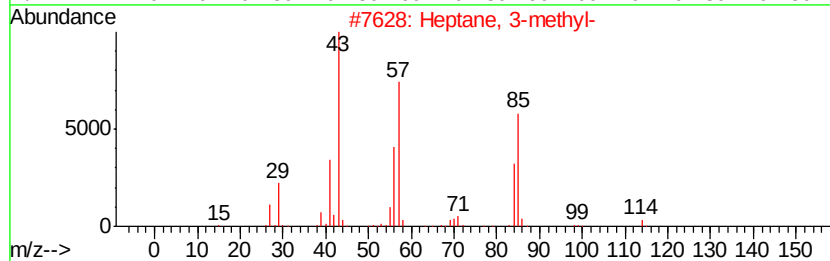
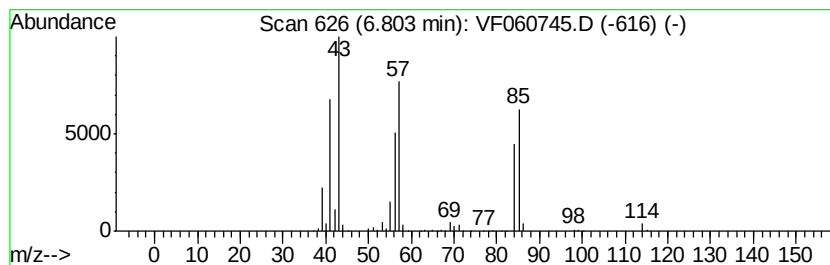
Instrument :  
MSV0A\_F  
ClientSampled :  
T-8

Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 6 Heptane, 3-methyl- Concentration Rank 5

| R.T.      | EstConc                           | Area    | Relative to ISTD    | R.T.         |      |
|-----------|-----------------------------------|---------|---------------------|--------------|------|
| 6.80      | 127.64 ug/l                       | 2517370 | 1,4-Difluorobenzene | 5.58         |      |
| Hit# of 5 | Tentative ID                      | MW      | MolForm             | CAS#         | Qual |
| 1         | Heptane, 3-methyl-                | 114     | C8H18               | 000589-81-1  | 91   |
| 2         | Oxalic acid, butyl isohexyl ester | 230     | C12H22O4            | 1000309-32-7 | 59   |
| 3         | Hexane, 3-ethyl-                  | 114     | C8H18               | 000619-99-8  | 53   |
| 4         | Hexane, 1-(hexyloxy)-2-methyl-    | 200     | C13H28O             | 074421-17-3  | 53   |
| 5         | Pentane, 2,3,3,4-tetramethyl-     | 128     | C9H20               | 016747-38-9  | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
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Sample : J5915-08  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

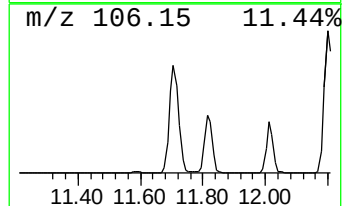
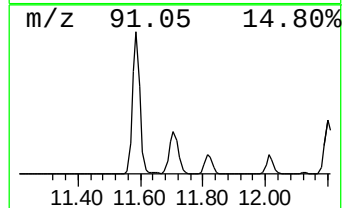
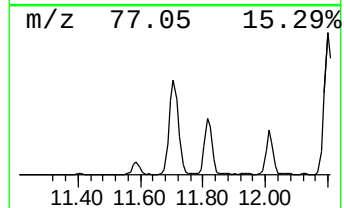
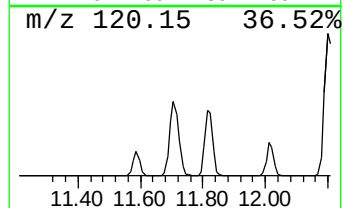
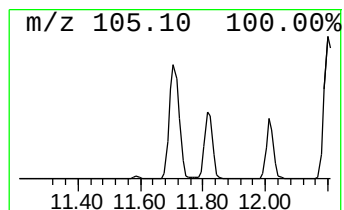
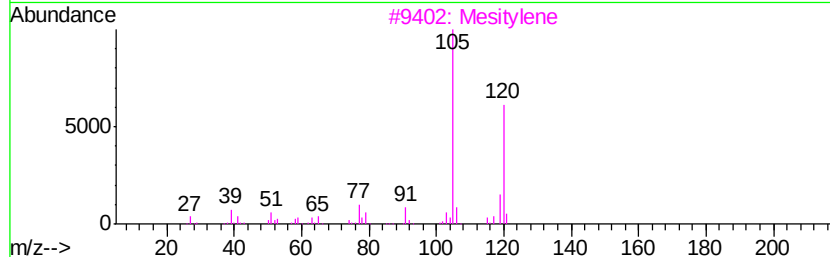
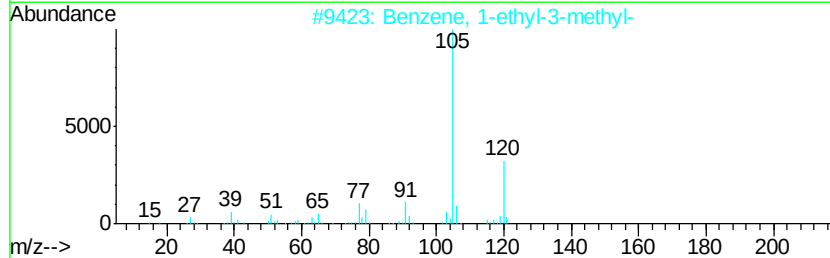
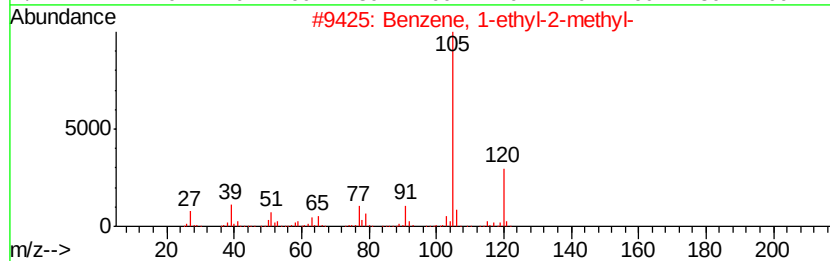
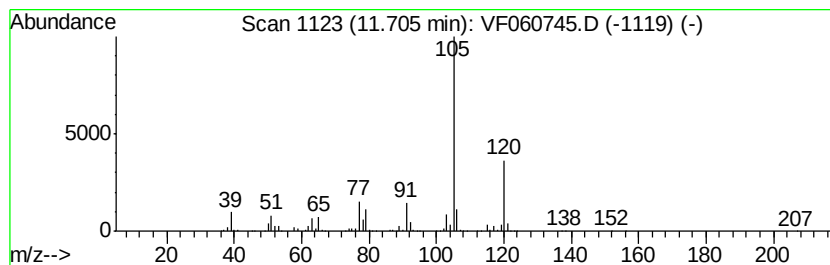
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ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

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

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Peak Number 7 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

| R.T.    | EstConc     | Area                       | Relative to ISTD       | R.T.    |             |      |
|---------|-------------|----------------------------|------------------------|---------|-------------|------|
| 11.71   | 184.43 ug/l | 7830100                    | 1,4-Dichlorobenzene-d4 | 12.54   |             |      |
| Hit# of | 5           | Tentative ID               | MW                     | MolForm | CAS#        | Qual |
| 1       |             | Benzene, 1-ethyl-2-methyl- | 120                    | C9H12   | 000611-14-3 | 95   |
| 2       |             | Benzene, 1-ethyl-3-methyl- | 120                    | C9H12   | 000620-14-4 | 94   |
| 3       |             | Mesitylene                 | 120                    | C9H12   | 000108-67-8 | 91   |
| 4       |             | Benzene, 1-ethyl-4-methyl- | 120                    | C9H12   | 000622-96-8 | 91   |
| 5       |             | Benzene, 1,2,3-trimethyl-  | 120                    | C9H12   | 000526-73-8 | 90   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
Operator : VA/AP  
Sample : J5915-08  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
T-8

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Quant Title : SW846 8260

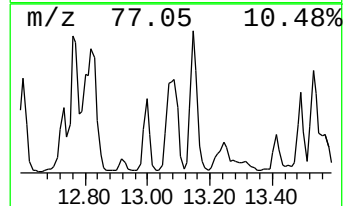
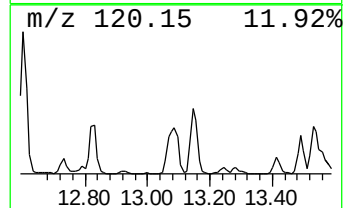
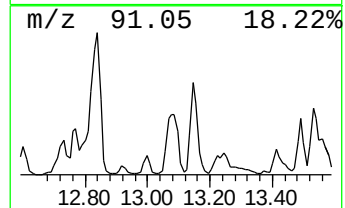
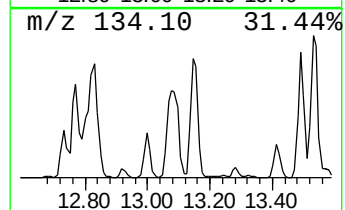
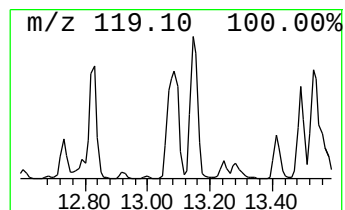
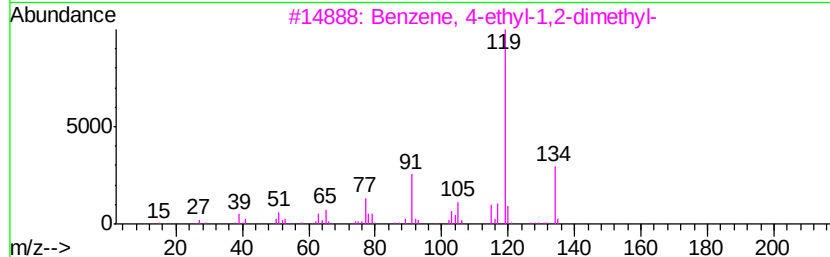
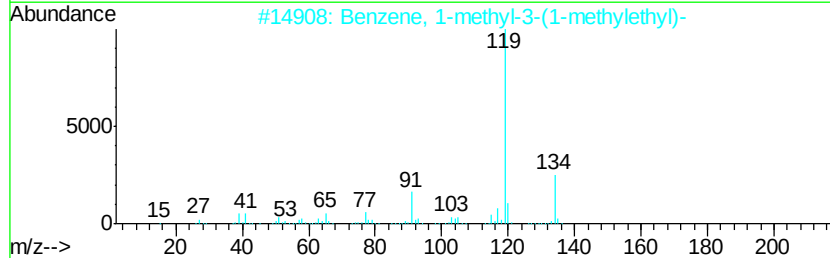
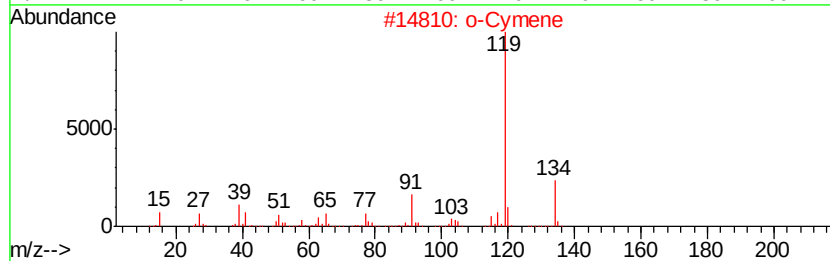
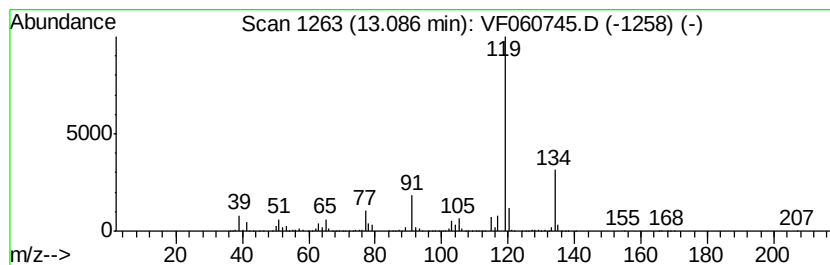
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 o-Cymene Concentration Rank 3

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.09 | 159.27 ug/l | 6762020 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 2    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 95   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl-      | 134 | C10H14  | 000934-80-5 | 95   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 94   |
| 5    |    | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 93   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
Operator : VA/AP  
Sample : J5915-08  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
T-8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

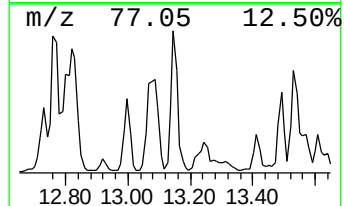
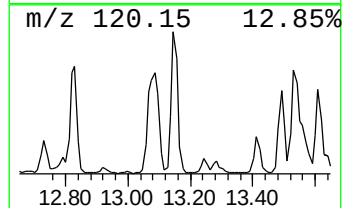
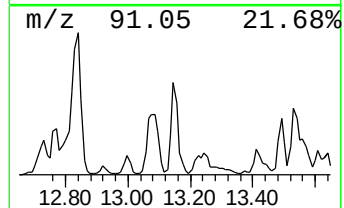
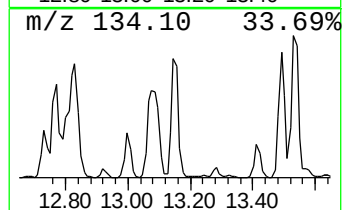
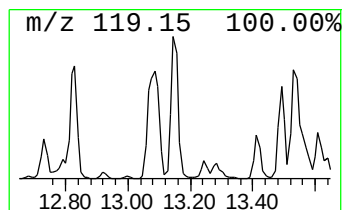
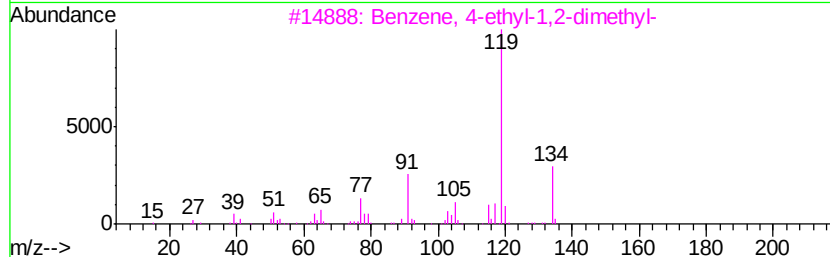
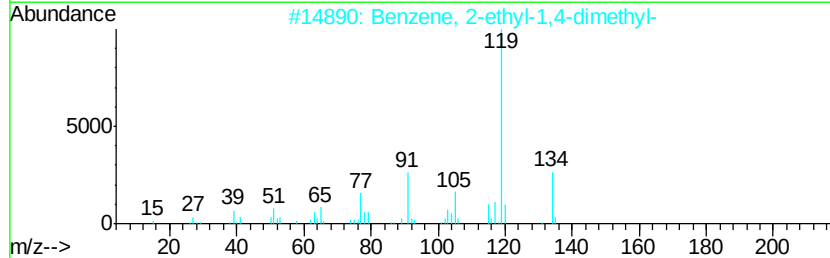
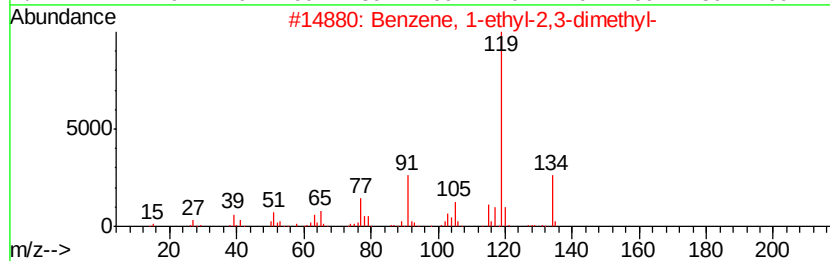
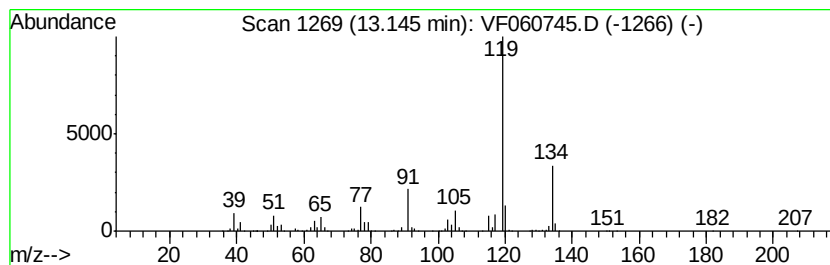
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 4

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.15 | 137.18 ug/l | 5824150 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 96   |
| 2    |    | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14  | 001758-88-9 | 96   |
| 3    |    | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14  | 000934-80-5 | 96   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 94   |
| 5    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
Data File : VF060745.D  
Acq On : 15 Nov 2018 14:27  
Operator : VA/AP  
Sample : J5915-08  
Misc : 5.00g/5mL/MSVOA-F/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
T-8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.M  
Quant Title : SW846 8260

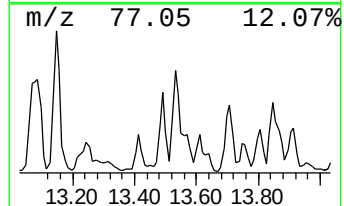
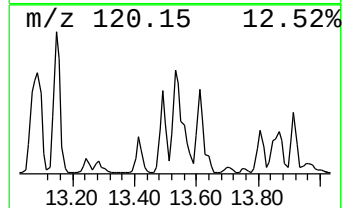
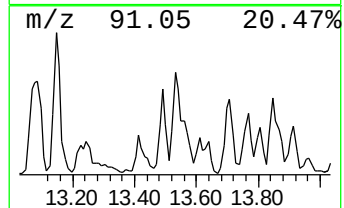
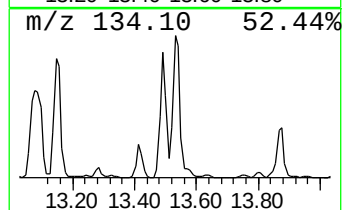
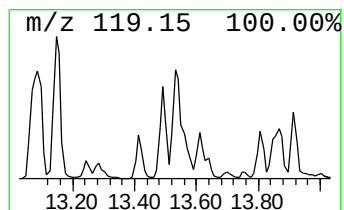
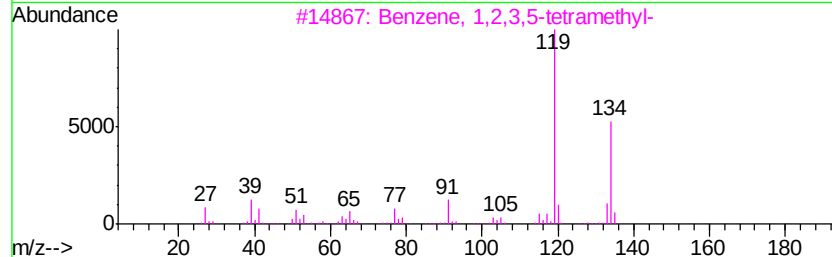
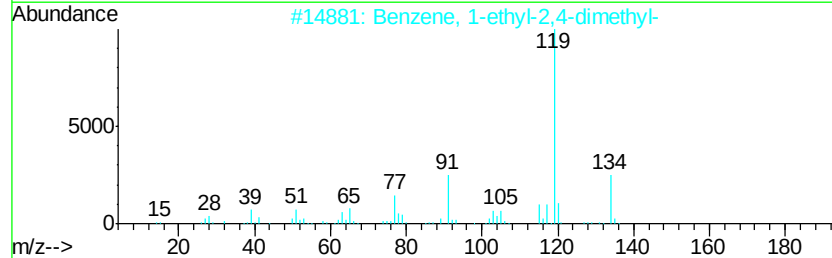
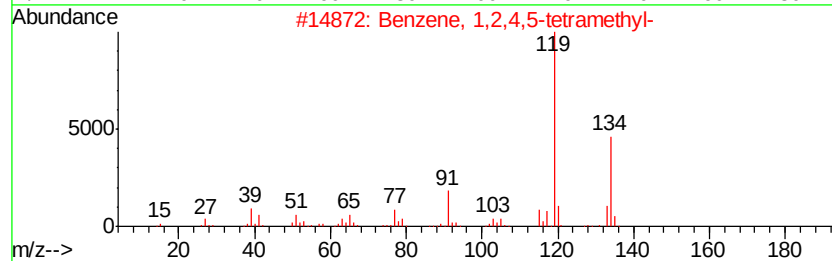
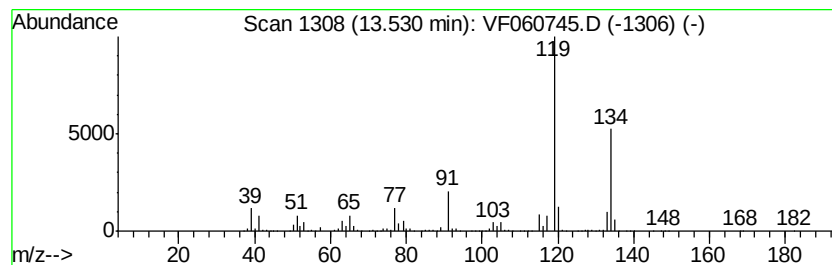
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 9

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 13.53 | 108.58 ug/l | 4609640 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 97   |
| 2    |    | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14  | 000874-41-9 | 95   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 94   |
| 4    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 94   |
| 5    |    | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14  | 000933-98-2 | 94   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF111518\  
 Data File : VF060745.D  
 Acq On : 15 Nov 2018 14:27  
 Operator : VA/AP  
 Sample : J5915-08  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 T-8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F111318S.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 |
| Hexane, 3-methyl-    | 3.99  | 106.0   | ug/l  | 2159780  | 1                     | 4.86  | 1018950 | 50.0 |
| Hexane, 2,2-dimet... | 4.49  | 209.0   | ug/l  | 4260010  | 1                     | 4.86  | 1018950 | 50.0 |
| Heptane              | 4.65  | 110.4   | ug/l  | 2250730  | 1                     | 4.86  | 1018950 | 50.0 |
| Pentane, 2,3,4-tr... | 6.26  | 121.9   | ug/l  | 2404570  | 2                     | 5.58  | 986116  | 50.0 |
| Hexane, 2,3-dimet... | 6.49  | 117.6   | ug/l  | 2319520  | 2                     | 5.58  | 986116  | 50.0 |
| Heptane, 3-methyl-   | 6.80  | 127.6   | ug/l  | 2517370  | 2                     | 5.58  | 986116  | 50.0 |
| Benzene, 1-ethyl-... | 11.71 | 184.4   | ug/l  | 7830100  | 4                     | 12.54 | 2122780 | 50.0 |
| o-Cymene             | 13.09 | 159.3   | ug/l  | 6762020  | 4                     | 12.54 | 2122780 | 50.0 |
| Benzene, 1-ethyl-... | 13.15 | 137.2   | ug/l  | 5824150  | 4                     | 12.54 | 2122780 | 50.0 |
| Benzene, 1,2,4,5-... | 13.53 | 108.6   | ug/l  | 4609640  | 4                     | 12.54 | 2122780 | 50.0 |