

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
 Data File : VF061618.D  
 Acq On : 12 Feb 2019 19:36  
 Operator : VA/AP  
 Sample : K1343-23  
 Misc : 6.37g/5mL/MSVOA-F/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 JC-02-021119-L

## 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\82F011519S.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         | 1.071       | 42            | 45          | 48           | rBV4     | 7642           | 12724         | 1.25%           | 0.119%        |
| 2         | 2.185       | 153           | 158         | 160          | rBV2     | 15268          | 32730         | 3.23%           | 0.306%        |
| 3         | 2.244       | 160           | 164         | 171          | rVB2     | 20414          | 67880         | 6.69%           | 0.635%        |
| 4         | 3.043       | 243           | 245         | 249          | rVB      | 6110           | 10444         | 1.03%           | 0.098%        |
| 5         | 4.030       | 337           | 345         | 348          | rBV      | 13161          | 47619         | 4.70%           | 0.445%        |
| 6         | 4.109       | 348           | 353         | 364          | rVB2     | 142271         | 451864        | 44.56%          | 4.226%        |
| 7         | 4.424       | 376           | 385         | 392          | rVB3     | 9516           | 42156         | 4.16%           | 0.394%        |
| 8         | 4.859       | 419           | 429         | 442          | rBV2     | 295202         | 1014055       | 100.00%         | 9.484%        |
| 9         | 5.598       | 498           | 504         | 515          | rBV      | 333104         | 878151        | 86.60%          | 8.213%        |
| 10        | 7.551       | 697           | 702         | 714          | rBV      | 364731         | 913205        | 90.05%          | 8.541%        |
| 11        | 9.771       | 922           | 927         | 935          | rBV      | 416904         | 925138        | 91.23%          | 8.653%        |
| 12        | 10.136      | 957           | 964         | 968          | rVB3     | 7944           | 19394         | 1.91%           | 0.181%        |
| 13        | 10.708      | 1019          | 1022        | 1028         | rVB2     | 8685           | 19345         | 1.91%           | 0.181%        |
| 14        | 11.408      | 1089          | 1093        | 1105         | rVB      | 385473         | 650052        | 64.10%          | 6.080%        |
| 15        | 11.556      | 1105          | 1108        | 1110         | rVV2     | 11275          | 22563         | 2.23%           | 0.211%        |
| 16        | 11.596      | 1110          | 1112        | 1116         | rVV      | 10343          | 17944         | 1.77%           | 0.168%        |
| 17        | 11.655      | 1116          | 1118        | 1120         | rVV      | 10950          | 15626         | 1.54%           | 0.146%        |
| 18        | 11.714      | 1120          | 1124        | 1132         | rVV      | 34792          | 74606         | 7.36%           | 0.698%        |
| 19        | 11.823      | 1132          | 1135        | 1139         | rVB      | 18867          | 27384         | 2.70%           | 0.256%        |
| 20        | 12.020      | 1149          | 1155        | 1159         | rBV      | 25326          | 42039         | 4.15%           | 0.393%        |
| 21        | 12.207      | 1170          | 1174        | 1177         | rVB      | 78040          | 116525        | 11.49%          | 1.090%        |
| 22        | 12.306      | 1181          | 1184        | 1189         | rBV3     | 7466           | 13442         | 1.33%           | 0.126%        |
| 23        | 12.424      | 1194          | 1196        | 1198         | rBV2     | 11947          | 17666         | 1.74%           | 0.165%        |
| 24        | 12.464      | 1198          | 1200        | 1205         | rVB2     | 10869          | 14482         | 1.43%           | 0.135%        |
| 25        | 12.553      | 1205          | 1209        | 1212         | rBV      | 605204         | 910711        | 89.81%          | 8.518%        |
| 26        | 12.612      | 1212          | 1215        | 1220         | rVB      | 63695          | 104128        | 10.27%          | 0.974%        |
| 27        | 12.720      | 1223          | 1226        | 1229         | rBV2     | 41492          | 73828         | 7.28%           | 0.691%        |
| 28        | 12.770      | 1229          | 1231        | 1233         | rBV      | 32245          | 43176         | 4.26%           | 0.404%        |
| 29        | 12.829      | 1233          | 1237        | 1242         | rVB3     | 54279          | 151345        | 14.92%          | 1.416%        |
| 30        | 12.927      | 1244          | 1247        | 1249         | rBV3     | 11924          | 20214         | 1.99%           | 0.189%        |
| 31        | 13.006      | 1252          | 1255        | 1259         | rVB      | 34026          | 51168         | 5.05%           | 0.479%        |
| 32        | 13.095      | 1259          | 1264        | 1267         | rBV      | 49236          | 121012        | 11.93%          | 1.132%        |
| 33        | 13.154      | 1267          | 1270        | 1276         | rBV      | 62725          | 122858        | 12.12%          | 1.149%        |
| 34        | 13.223      | 1276          | 1277        | 1282         | rVB3     | 39719          | 83061         | 8.19%           | 0.777%        |

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 JC-02-021119-L

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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\82F011519S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.292 | 1282 | 1284 | 1287 | rBV3 | 13981  | 26388  | 2.60%  | 0.247% |
| 36 | 13.381 | 1291 | 1293 | 1295 | rVB2 | 14569  | 19383  | 1.91%  | 0.181% |
| 37 | 13.421 | 1295 | 1297 | 1302 | rBV  | 35126  | 54247  | 5.35%  | 0.507% |
| 38 | 13.500 | 1302 | 1305 | 1307 | rBV  | 43467  | 55591  | 5.48%  | 0.520% |
| 39 | 13.539 | 1307 | 1309 | 1311 | rBV  | 71621  | 92176  | 9.09%  | 0.862% |
| 40 | 13.579 | 1311 | 1313 | 1315 | rVB2 | 23983  | 34356  | 3.39%  | 0.321% |
| 41 | 13.638 | 1315 | 1319 | 1322 | rVB2 | 18878  | 44222  | 4.36%  | 0.414% |
| 42 | 13.707 | 1322 | 1326 | 1329 | rBV2 | 176917 | 262690 | 25.90% | 2.457% |
| 43 | 13.766 | 1329 | 1332 | 1335 | rVB4 | 21003  | 37342  | 3.68%  | 0.349% |
| 44 | 13.815 | 1335 | 1337 | 1338 | rBV  | 29444  | 34206  | 3.37%  | 0.320% |
| 45 | 13.855 | 1338 | 1341 | 1345 | rBV2 | 202427 | 336636 | 33.20% | 3.149% |
| 46 | 13.914 | 1345 | 1347 | 1350 | rVB2 | 38454  | 61750  | 6.09%  | 0.578% |
| 47 | 13.973 | 1350 | 1353 | 1358 | rVB  | 192239 | 274568 | 27.08% | 2.568% |
| 48 | 14.082 | 1358 | 1364 | 1367 | rBV  | 58068  | 120667 | 11.90% | 1.129% |
| 49 | 14.151 | 1367 | 1371 | 1374 | rBV4 | 80562  | 178712 | 17.62% | 1.671% |
| 50 | 14.220 | 1374 | 1378 | 1384 | rVB2 | 77612  | 156166 | 15.40% | 1.461% |
| 51 | 14.299 | 1384 | 1386 | 1388 | rVB3 | 8914   | 12799  | 1.26%  | 0.120% |
| 52 | 14.368 | 1388 | 1393 | 1394 | rBV4 | 12750  | 24984  | 2.46%  | 0.234% |
| 53 | 14.407 | 1394 | 1397 | 1400 | rBV2 | 84901  | 138037 | 13.61% | 1.291% |
| 54 | 14.466 | 1400 | 1403 | 1405 | rBV3 | 71591  | 108231 | 10.67% | 1.012% |
| 55 | 14.565 | 1411 | 1413 | 1414 | rBV  | 16155  | 19535  | 1.93%  | 0.183% |
| 56 | 14.595 | 1414 | 1416 | 1419 | rVB  | 66124  | 85913  | 8.47%  | 0.804% |
| 57 | 14.703 | 1424 | 1427 | 1428 | rVV2 | 9017   | 14609  | 1.44%  | 0.137% |
| 58 | 14.743 | 1428 | 1431 | 1435 | rVV  | 272686 | 387088 | 38.17% | 3.620% |
| 59 | 14.881 | 1438 | 1445 | 1449 | rVV3 | 44543  | 144614 | 14.26% | 1.353% |
| 60 | 14.940 | 1449 | 1451 | 1454 | rVB4 | 11785  | 18623  | 1.84%  | 0.174% |
| 61 | 14.999 | 1454 | 1457 | 1461 | rBV  | 130472 | 199206 | 19.64% | 1.863% |
| 62 | 15.107 | 1465 | 1468 | 1471 | rVV2 | 89785  | 159029 | 15.68% | 1.487% |
| 63 | 15.167 | 1471 | 1474 | 1480 | rVB3 | 33520  | 74885  | 7.38%  | 0.700% |
| 64 | 15.285 | 1480 | 1486 | 1488 | rBV4 | 36916  | 76740  | 7.57%  | 0.718% |
| 65 | 15.354 | 1488 | 1493 | 1496 | rVV3 | 42691  | 98932  | 9.76%  | 0.925% |
| 66 | 15.413 | 1496 | 1499 | 1502 | rVV  | 24543  | 44952  | 4.43%  | 0.420% |
| 67 | 15.512 | 1505 | 1509 | 1514 | rVB6 | 7340   | 22764  | 2.24%  | 0.213% |
| 68 | 15.640 | 1519 | 1522 | 1527 | rVB  | 44967  | 87649  | 8.64%  | 0.820% |
| 69 | 15.719 | 1527 | 1530 | 1534 | rBV4 | 7240   | 14487  | 1.43%  | 0.135% |
| 70 | 15.828 | 1536 | 1541 | 1544 | rVB6 | 6786   | 17312  | 1.71%  | 0.162% |
| 71 | 15.946 | 1549 | 1553 | 1554 | rBV4 | 7397   | 12533  | 1.24%  | 0.117% |

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ALS Vial : 17 Sample Multiplier: 1

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MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

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\82F011519S.M  
Title : SW846 8260

|    |        |      |      |      |      |      |       |       |        |
|----|--------|------|------|------|------|------|-------|-------|--------|
| 72 | 15.985 | 1554 | 1557 | 1561 | rBV6 | 5163 | 11178 | 1.10% | 0.105% |
|----|--------|------|------|------|------|------|-------|-------|--------|

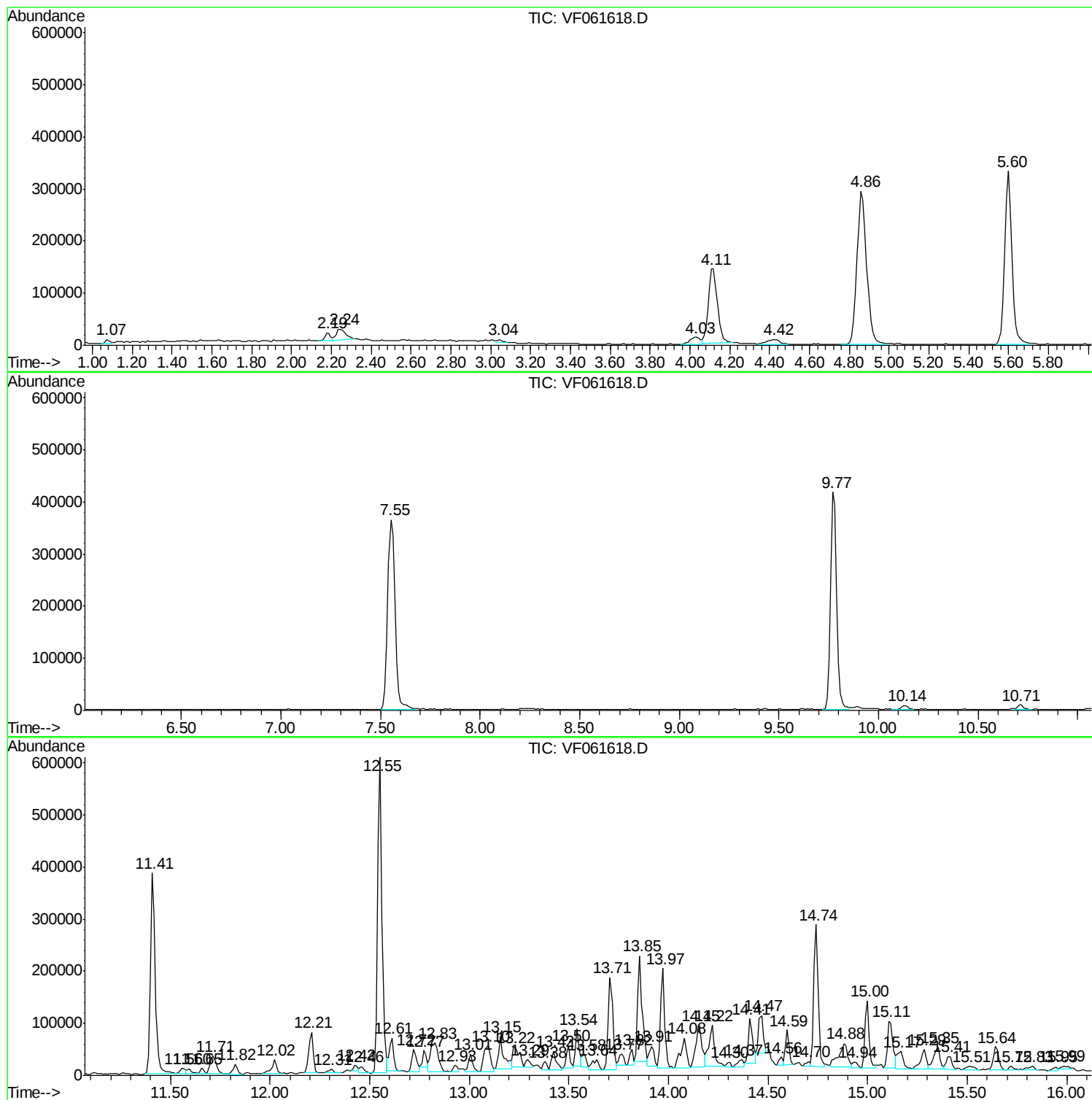
Sum of corrected areas: 10691735

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

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



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ALS Vial : 17 Sample Multiplier: 1

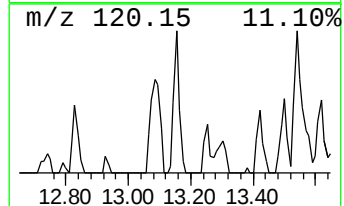
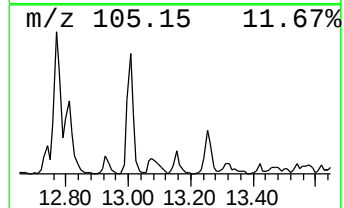
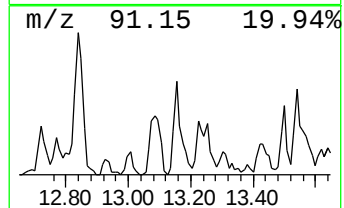
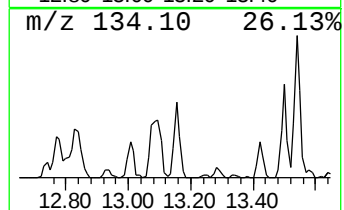
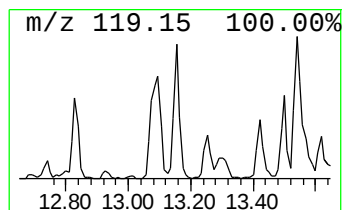
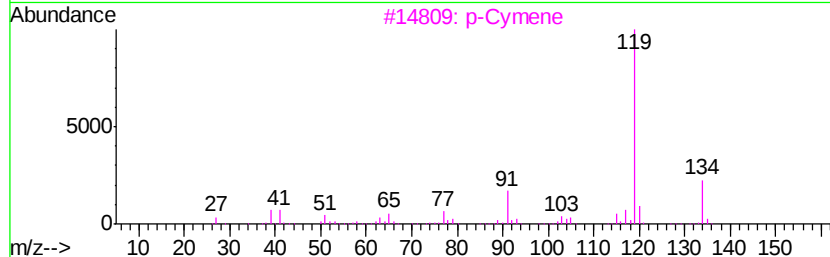
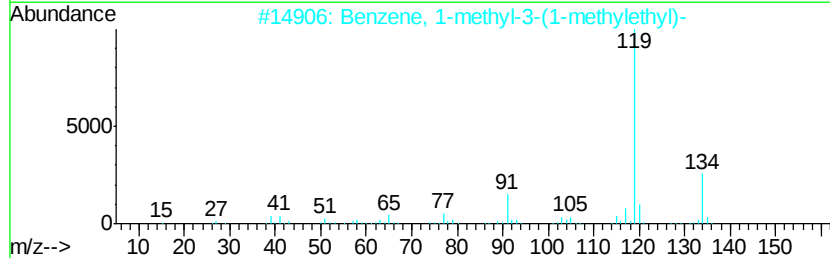
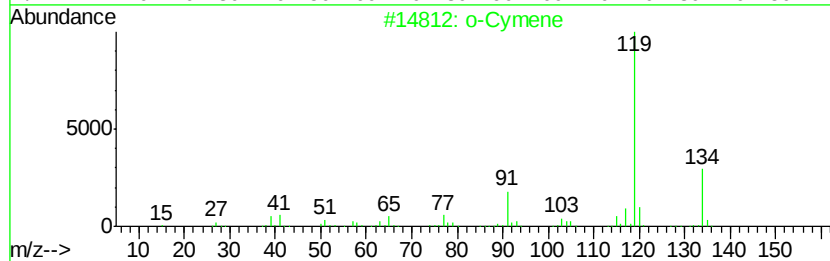
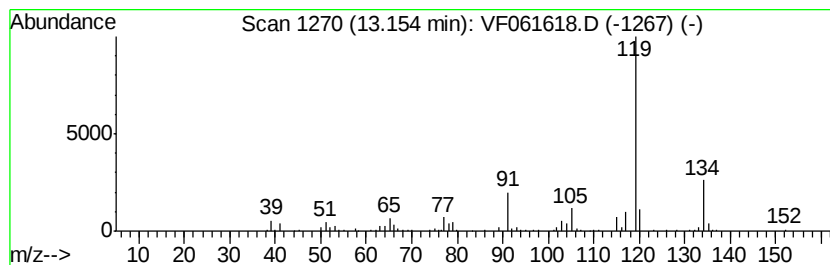
Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

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

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Peak Number 1 o-Cymene Concentration Rank 10

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 13.15   | 6.75 ug/l | 122858                              | 1,4-Dichlorobenzene-d4 | 12.55          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | o-Cymene                            | 134 C10H14             | 000527-84-4 93 |
| 2       |           | Benzene, 1-methyl-3-(1-methyleth... | 134 C10H14             | 000535-77-3 93 |
| 3       |           | p-Cymene                            | 134 C10H14             | 000099-87-6 93 |
| 4       |           | 1,3,8-p-Menthatriene                | 134 C10H14             | 018368-95-1 91 |
| 5       |           | Benzene, 1-ethyl-2,4-dimethyl-      | 134 C10H14             | 000874-41-9 91 |



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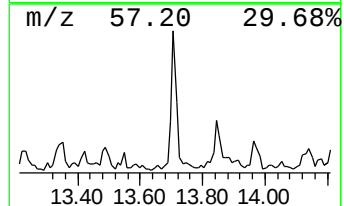
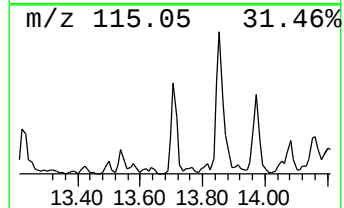
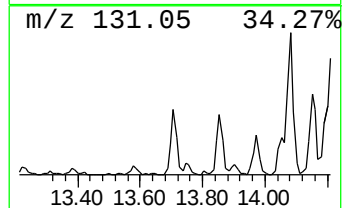
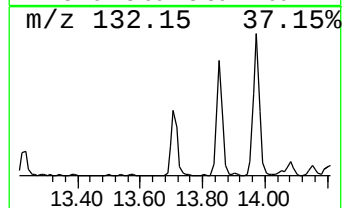
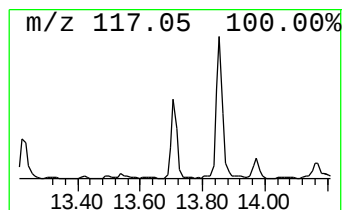
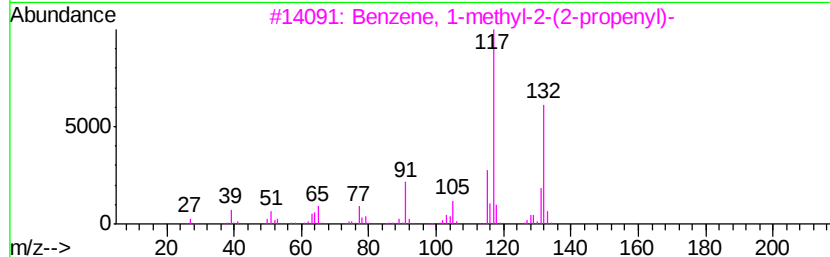
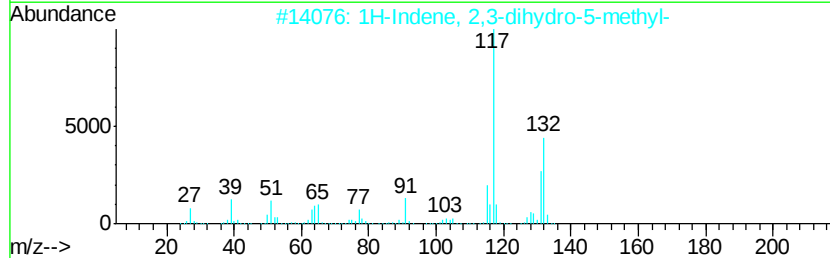
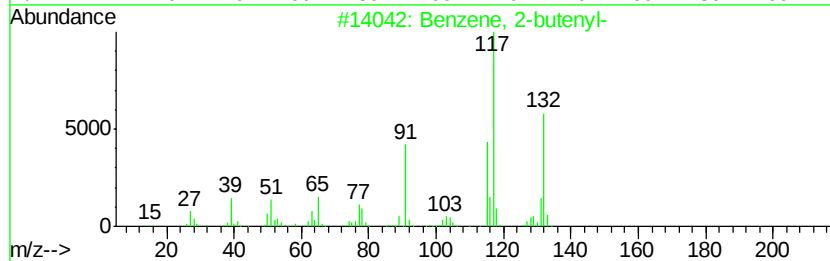
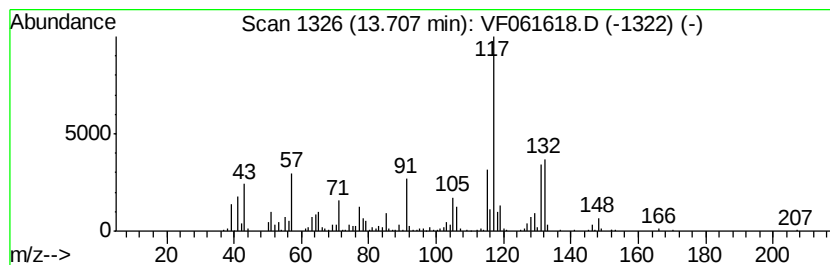
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

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

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.71 | 14.42 ug/l | 262690 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 2-butenyl-                 | 132 | C10H12  | 001560-06-1 | 87   |
| 2    |    | 1H-Indene, 2,3-dihydro-5-methyl-    | 132 | C10H12  | 000874-35-1 | 81   |
| 3    |    | Benzene, 1-methyl-2-(2-propenyl)-   | 132 | C10H12  | 001587-04-8 | 76   |
| 4    |    | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000767-99-7 | 76   |
| 5    |    | Azulene, 1,2,3,3a-tetrahydro-       | 132 | C10H12  | 033877-87-1 | 72   |



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MSVOA\_F  
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JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

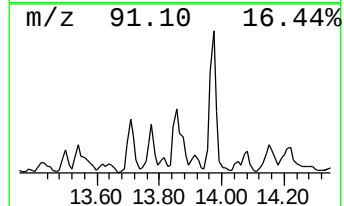
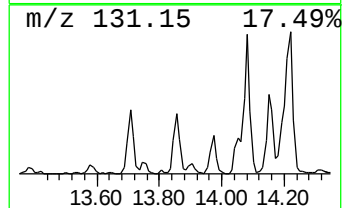
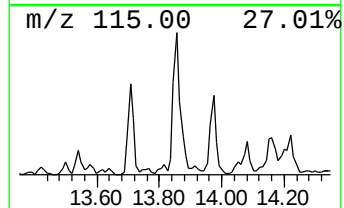
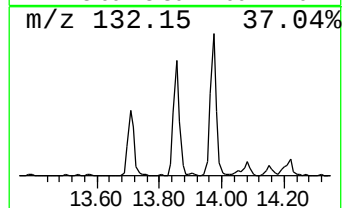
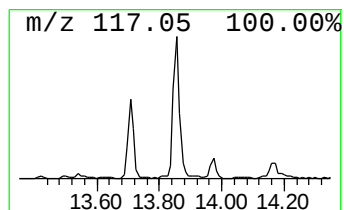
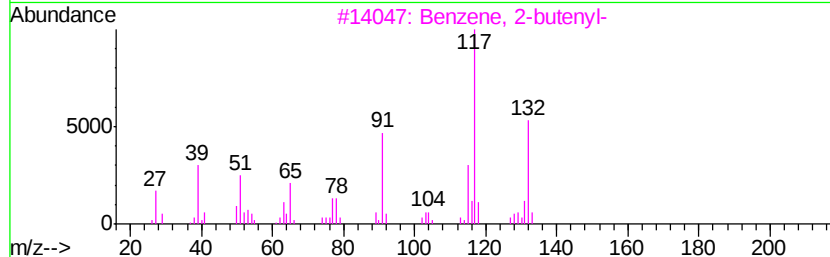
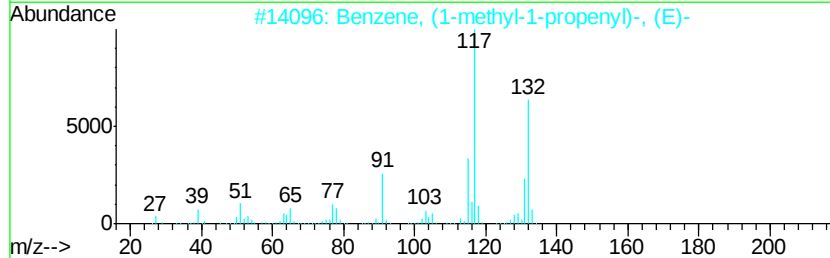
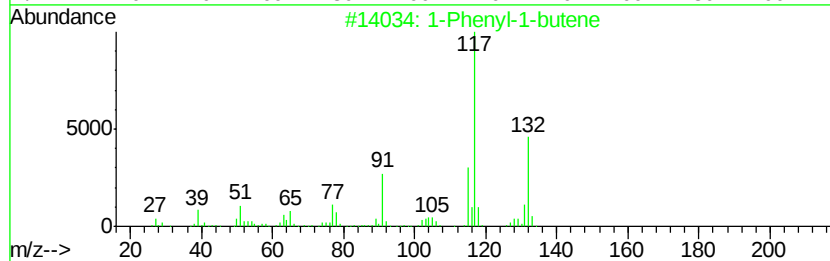
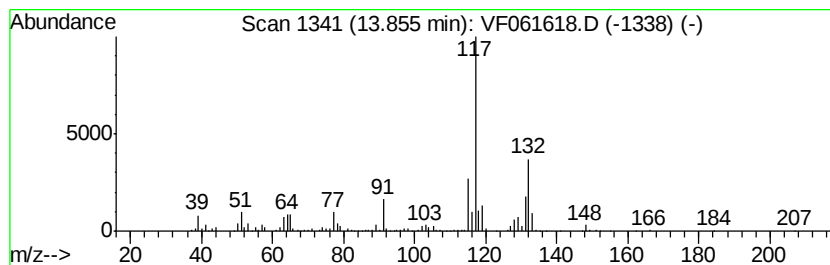
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 1-Phenyl-1-butene Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.85 | 18.48 ug/l | 336636 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Phenyl-1-butene                    | 132 | C10H12  | 000824-90-8 | 93   |
| 2    |    | Benzene, (1-methyl-1-propenyl)-, ... | 132 | C10H12  | 000768-00-3 | 87   |
| 3    |    | Benzene, 2-butenyl-                  | 132 | C10H12  | 001560-06-1 | 86   |
| 4    |    | Benzene, 1-methyl-2-(2-propenyl)-    | 132 | C10H12  | 001587-04-8 | 83   |
| 5    |    | 2,4-Dimethylstyrene                  | 132 | C10H12  | 002234-20-0 | 83   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

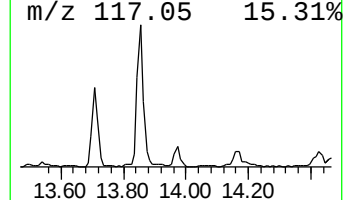
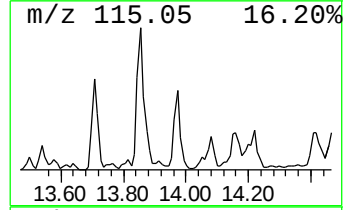
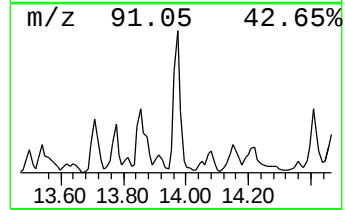
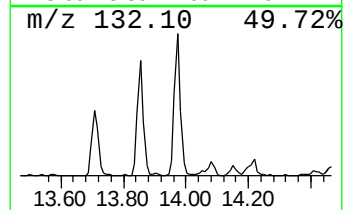
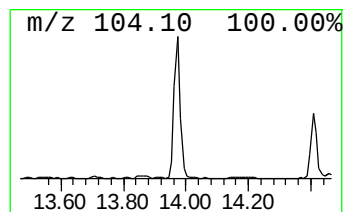
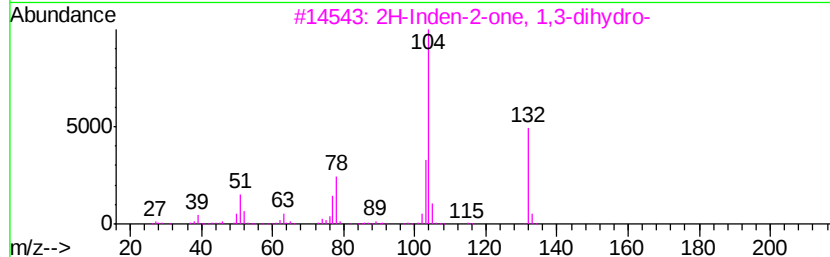
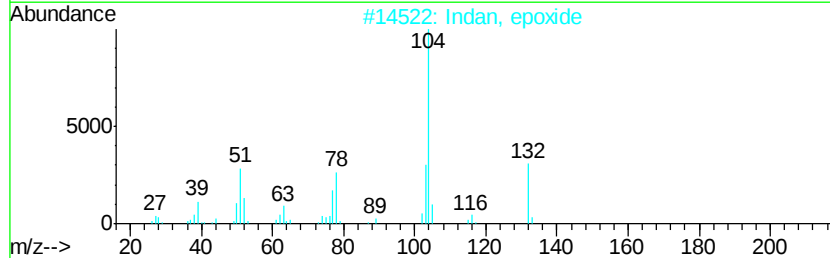
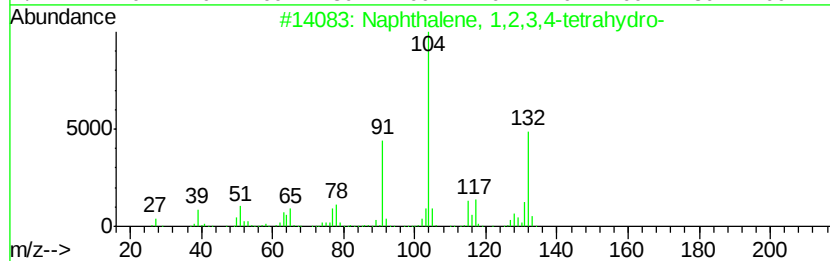
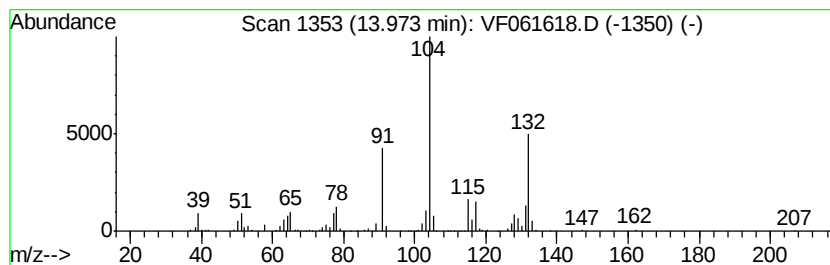
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.97 | 15.07 ug/l | 274568 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12  | 000119-64-2 | 96   |
| 2    |    | Indan, epoxide                   | 132 | C9H8O   | 000768-22-9 | 62   |
| 3    |    | 2H-Inden-2-one, 1,3-dihydro-     | 132 | C9H8O   | 000615-13-4 | 53   |
| 4    |    | Benzene, 3-cyclohexen-1-yl-      | 158 | C12H14  | 004994-16-5 | 47   |
| 5    |    | 1H-Inden-1-one, 2,3-dihydro-     | 132 | C9H8O   | 000083-33-0 | 46   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37a/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

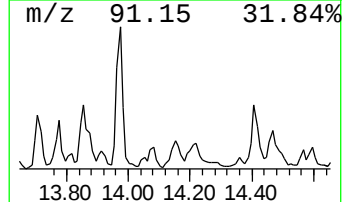
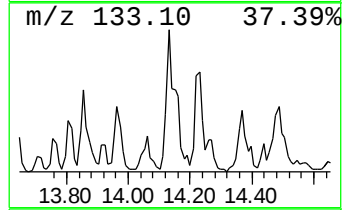
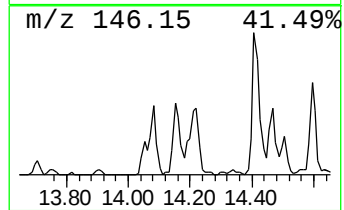
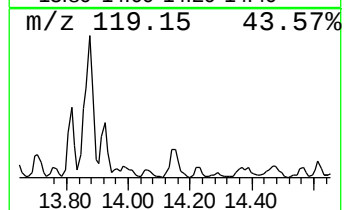
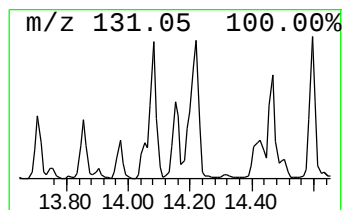
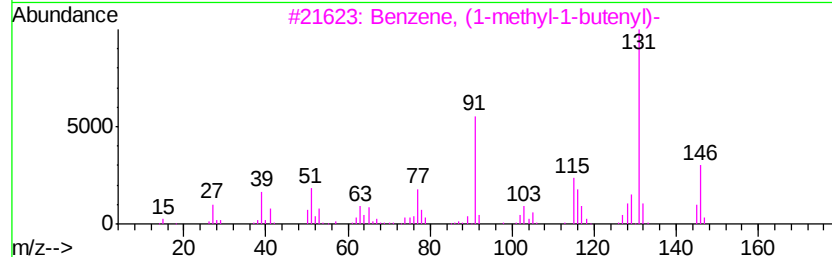
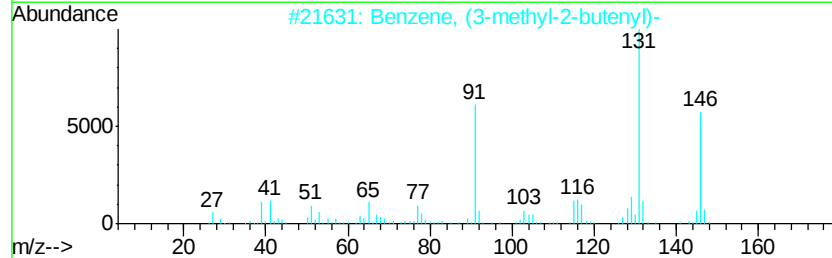
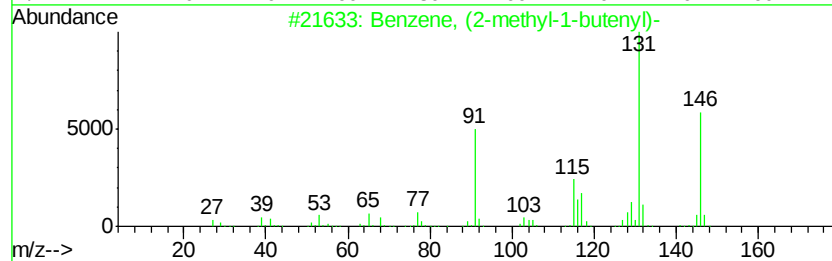
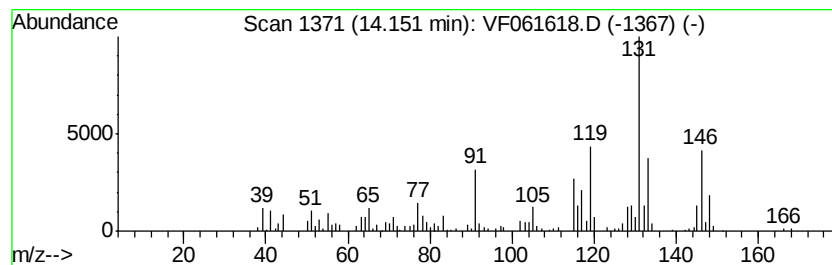
Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 5 Benzene, (2-methyl-1-butenyl)- Concentration Rank 6

| R.T.    | EstConc   | Area                                | Relative to ISTD       | R.T.           |
|---------|-----------|-------------------------------------|------------------------|----------------|
| 14.15   | 9.81 ug/l | 178712                              | 1,4-Dichlorobenzene-d4 | 12.55          |
| Hit# of | 5         | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |           | Benzene, (2-methyl-1-butenyl)-      | 146 C11H14             | 056253-64-6 94 |
| 2       |           | Benzene, (3-methyl-2-butenyl)-      | 146 C11H14             | 004489-84-3 90 |
| 3       |           | Benzene, (1-methyl-1-butenyl)-      | 146 C11H14             | 053172-84-2 83 |
| 4       |           | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 C11H14             | 006682-71-9 78 |
| 5       |           | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14             | 001559-81-5 64 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

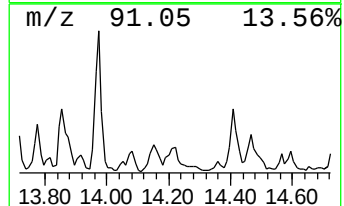
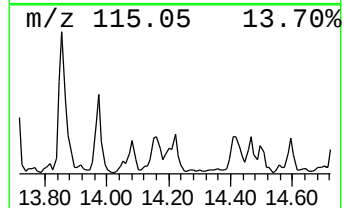
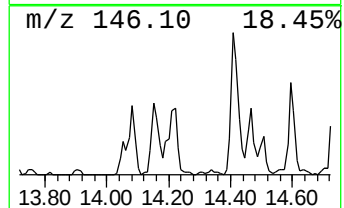
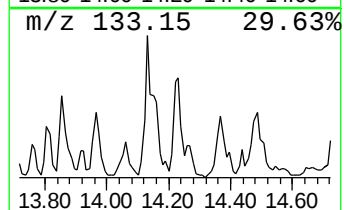
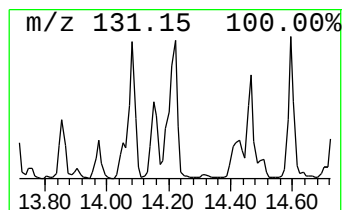
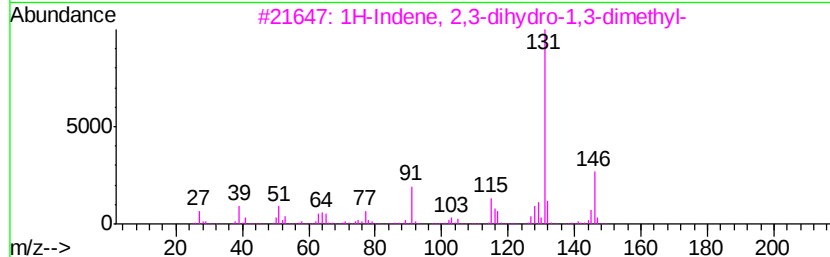
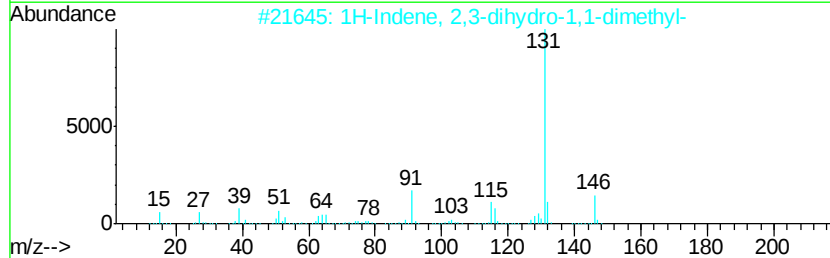
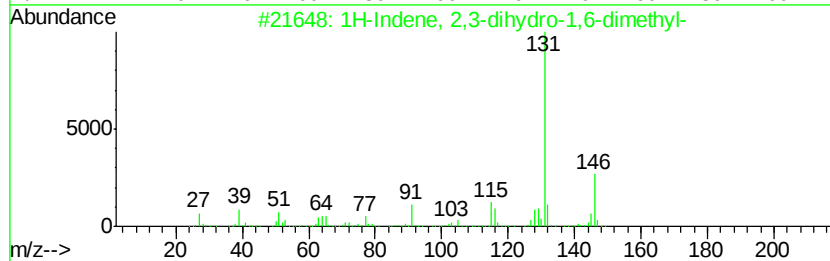
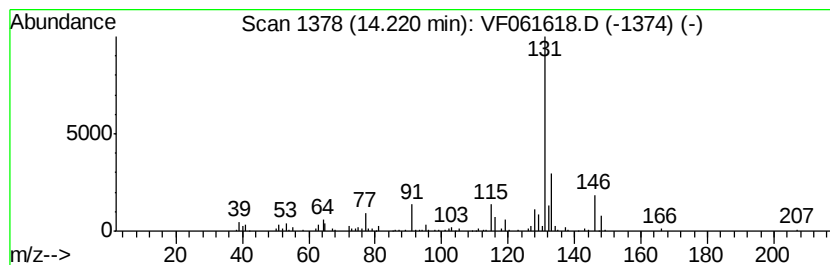
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.22 | 8.57 ug/l | 156166 | 1,4-Dichlorobenzene-d4 | 12.55 |

| 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-1,1-dimet...  | 146 | C11H14  | 004912-92-9 | 76   |
| 3    |    |   | 1H-Indene, 2,3-dihydro-1,3-dimet...  | 146 | C11H14  | 004175-53-5 | 74   |
| 4    |    |   | Benzene, 1-methyl-4-(1-methyl-2-...  | 146 | C11H14  | 097664-18-1 | 64   |
| 5    |    |   | Bicyclo[4.2.0]octa-1,3,5-triene, ... | 146 | C11H14  | 027087-54-3 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

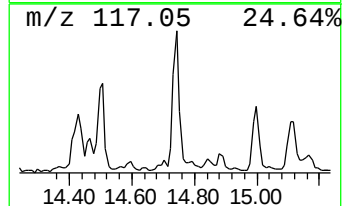
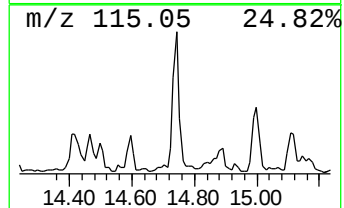
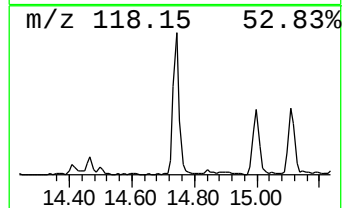
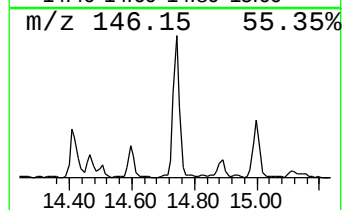
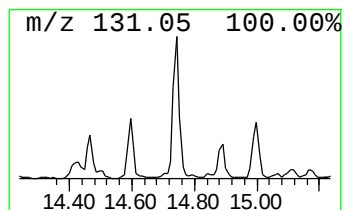
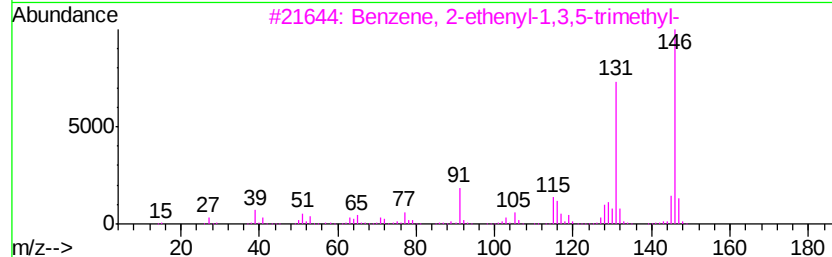
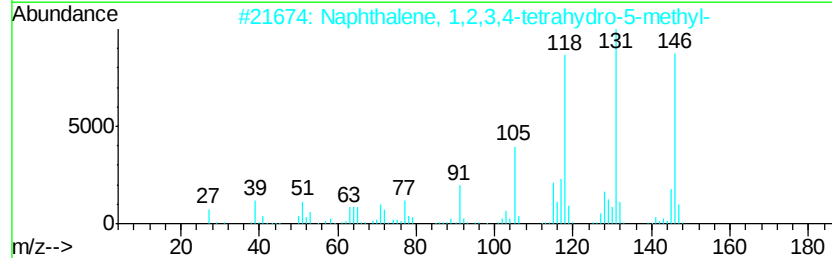
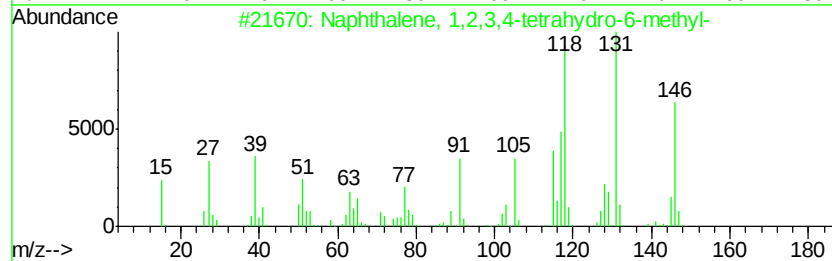
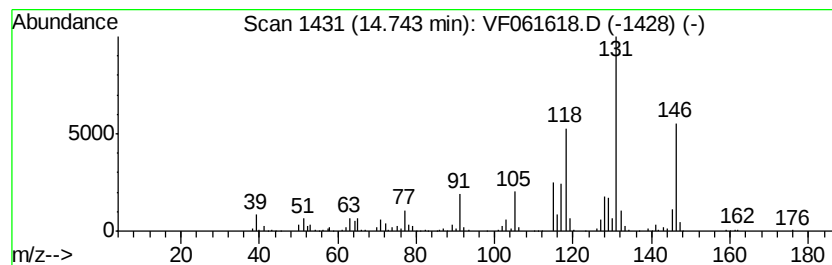
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 1,2,3,4-tetra... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.74 | 21.25 ug/l | 387088 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 001680-51-9  | 93   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5  | 91   |
| 3    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5  | 70   |
| 4    |    | 2,3,4,5,6,7-Hexahydro-1H-cyclope... | 146 | C11H14  | 1000189-31-0 | 68   |
| 5    |    | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8  | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

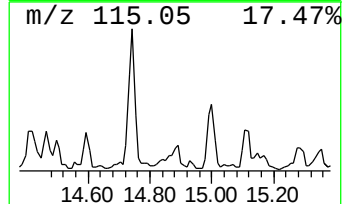
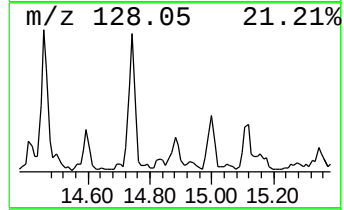
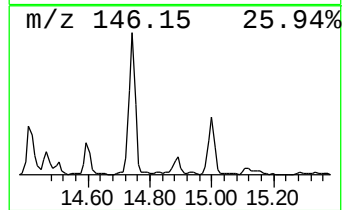
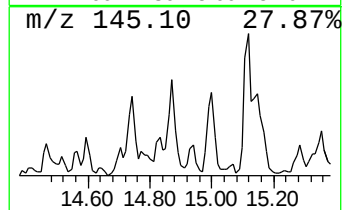
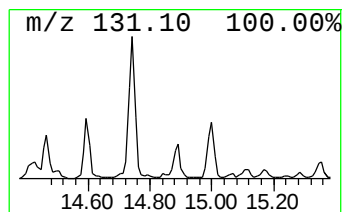
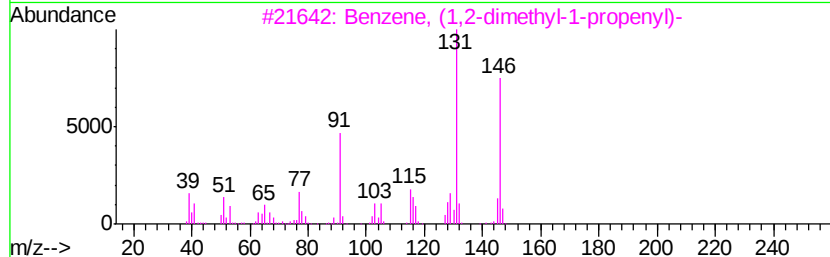
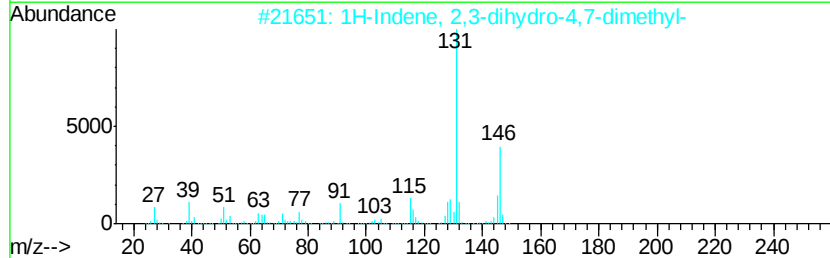
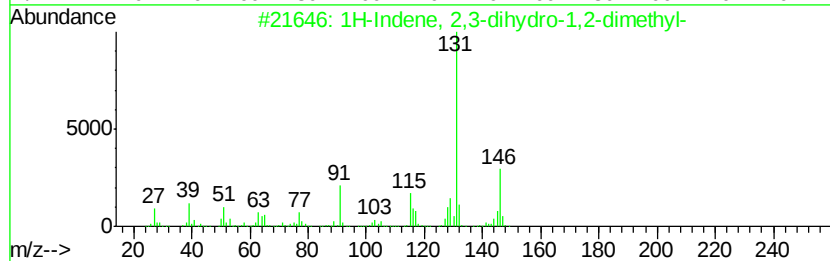
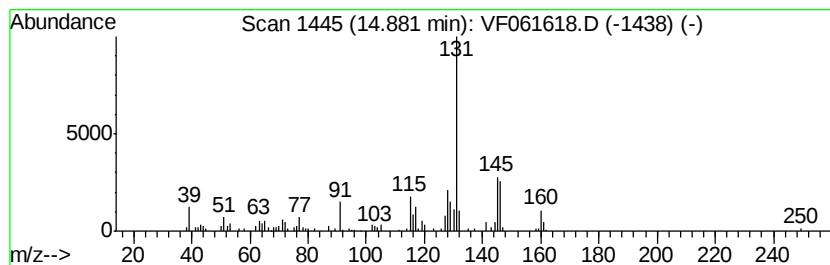
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 14.88 | 7.94 ug/l | 144614 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 76   |
| 2    |    | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14  | 006682-71-9 | 76   |
| 3    |    | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14  | 000769-57-3 | 74   |
| 4    |    | Naphthalene, 6-ethyl-1,2,3,4-tet... | 160 | C12H16  | 022531-20-0 | 70   |
| 5    |    | Benzene, 1-methyl-3-(1-methyl-2-... | 146 | C11H14  | 052161-57-6 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

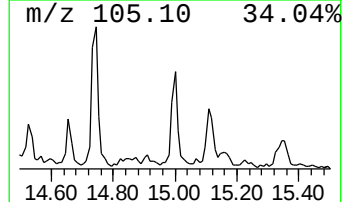
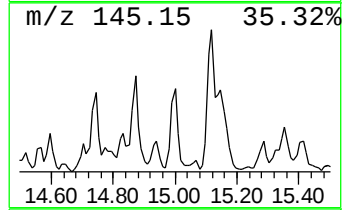
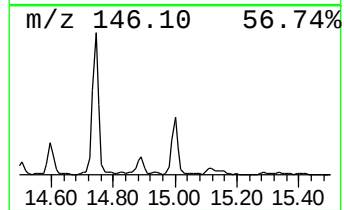
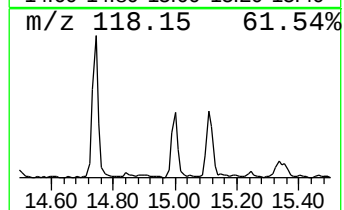
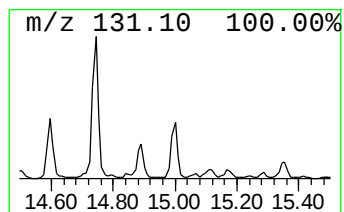
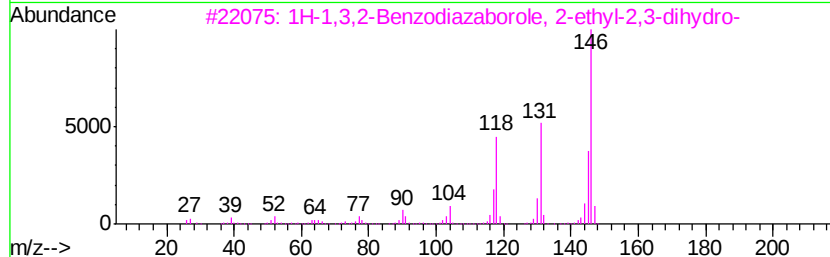
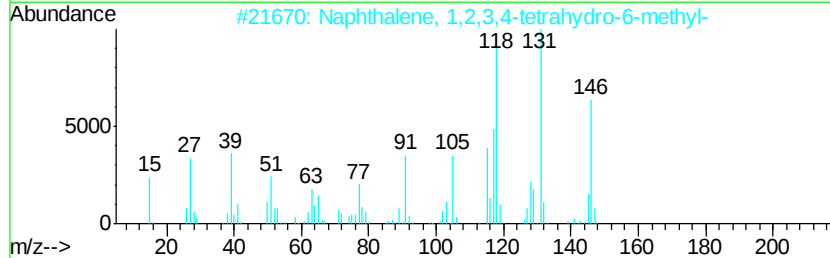
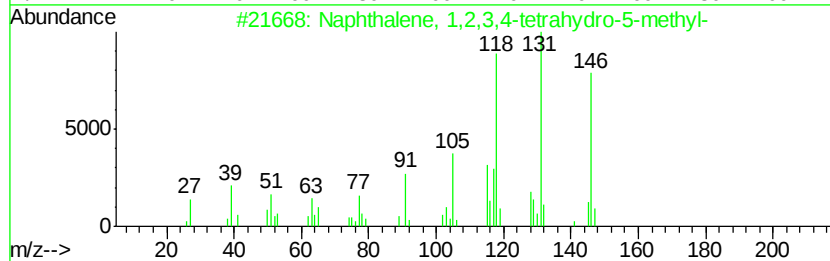
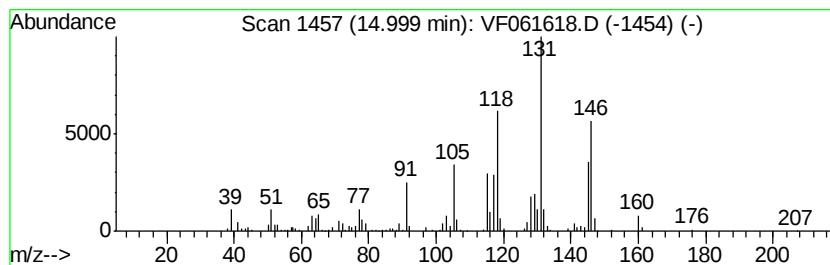
Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 9 Naphthalene, 1,2,3,4-tetra... Concentration Rank 5

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 15.00   | 10.94 ug/l | 199206                              | 1,4-Dichlorobenzene-d4 | 12.55          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14             | 002809-64-5 96 |
| 2       |            | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14             | 001680-51-9 93 |
| 3       |            | 1H-1,3,2-Benzodiazaborole, 2-eth... | 146 C8H11BN2           | 074663-81-3 87 |
| 4       |            | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 C11H14             | 000769-25-5 86 |
| 5       |            | 1H-Benzimidazole, 5,6-dimethyl-     | 146 C9H10N2            | 000582-60-5 70 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

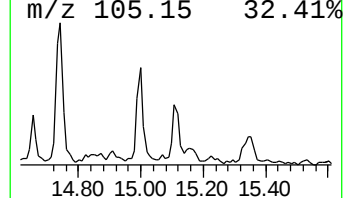
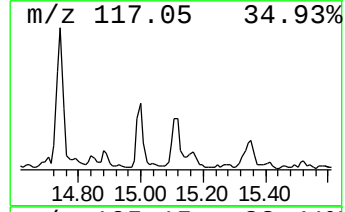
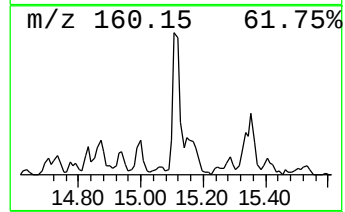
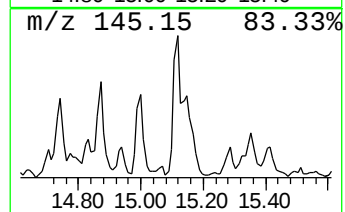
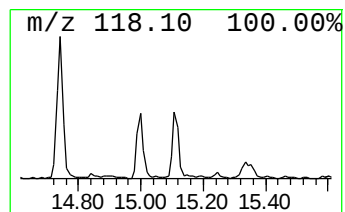
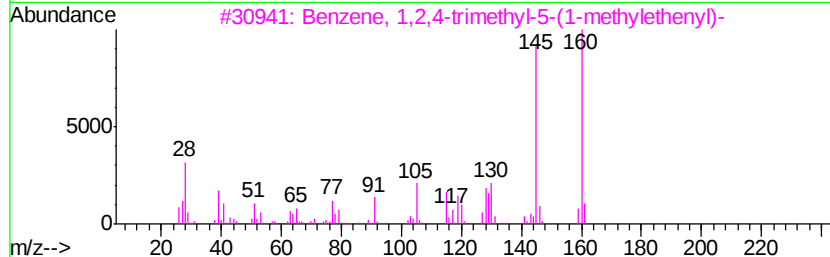
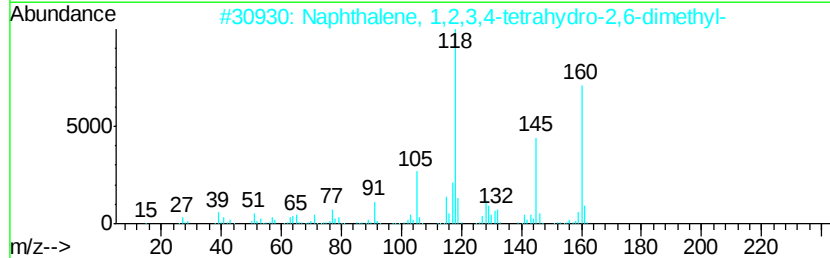
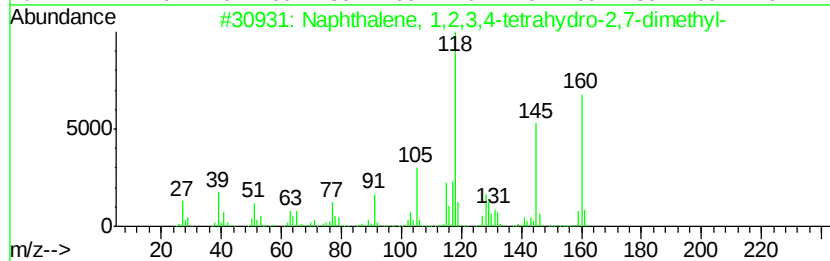
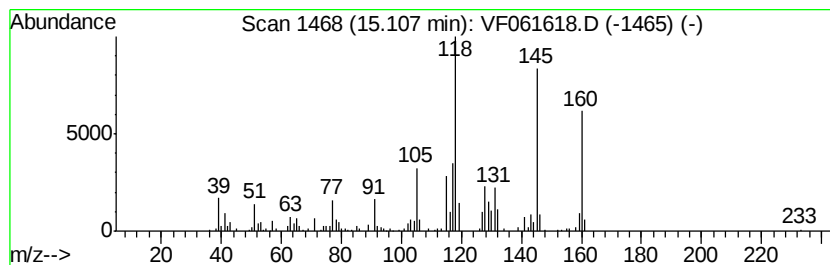
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 15.11 | 8.73 ug/l | 159029 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# of | 5 | Tentative ID                                 | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------------------------------|-----|---------|-------------|------|
| 1       |   | Naphthalene, 1,2,3,4-tetrahydro-...          | 160 | C12H16  | 013065-07-1 | 91   |
| 2       |   | Naphthalene, 1,2,3,4-tetrahydro-...          | 160 | C12H16  | 007524-63-2 | 64   |
| 3       |   | Benzene, 1,2,4-trimethyl-5-(1-methyl-...     | 160 | C12H16  | 054340-84-0 | 55   |
| 4       |   | Benzene, 1-(1-methylethenyl)-3-(1-methyl-... | 160 | C12H16  | 001129-29-9 | 55   |
| 5       |   | 1H-Indene, 2,3-dihydro-1,1,3-trimethyl-      | 160 | C12H16  | 002613-76-5 | 52   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_F\DATA\VF021219\  
Data File : VF061618.D  
Acq On : 12 Feb 2019 19:36  
Operator : VA/AP  
Sample : K1343-23  
Misc : 6.37g/5mL/MSVOA-F/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
JC-02-021119-L

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.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 |
| o-Cymene             | 13.15 | 6.8     | ug/l  | 122858   | 4                     | 12.55 | 910711 | 50.0 |
| Benzene, 2-butenyl-  | 13.71 | 14.4    | ug/l  | 262690   | 4                     | 12.55 | 910711 | 50.0 |
| 1-Phenyl-1-butene    | 13.85 | 18.5    | ug/l  | 336636   | 4                     | 12.55 | 910711 | 50.0 |
| Naphthalene, 1,2,... | 13.97 | 15.1    | ug/l  | 274568   | 4                     | 12.55 | 910711 | 50.0 |
| Benzene, (2-methy... | 14.15 | 9.8     | ug/l  | 178712   | 4                     | 12.55 | 910711 | 50.0 |
| 1H-Indene, 2,3-di... | 14.22 | 8.6     | ug/l  | 156166   | 4                     | 12.55 | 910711 | 50.0 |
| Naphthalene, 1,2,... | 14.74 | 21.3    | ug/l  | 387088   | 4                     | 12.55 | 910711 | 50.0 |
| 1H-Indene, 2,3-di... | 14.88 | 7.9     | ug/l  | 144614   | 4                     | 12.55 | 910711 | 50.0 |
| Naphthalene, 1,2,... | 15.00 | 10.9    | ug/l  | 199206   | 4                     | 12.55 | 910711 | 50.0 |
| Naphthalene, 1,2,... | 15.11 | 8.7     | ug/l  | 159029   | 4                     | 12.55 | 910711 | 50.0 |