

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
 Data File : VF061697.D  
 Acq On : 21 Feb 2019 14:44  
 Operator : VA/AP  
 Sample : K1344-01  
 Misc : 6.58g/5mL/MSVOA-F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-08-022019-A

## 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\82F021319S.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         | 1.075       | 43            | 45          | 48           | rBV      | 15297          | 23961         | 1.73%           | 0.131%        |
| 2         | 2.190       | 154           | 158         | 159          | rBV      | 11280          | 21401         | 1.55%           | 0.117%        |
| 3         | 2.239       | 159           | 163         | 174          | rVV3     | 27541          | 107445        | 7.78%           | 0.588%        |
| 4         | 2.377       | 174           | 177         | 183          | rVB      | 23172          | 51415         | 3.72%           | 0.281%        |
| 5         | 4.024       | 337           | 344         | 348          | rBV      | 37671          | 142926        | 10.35%          | 0.782%        |
| 6         | 4.122       | 348           | 354         | 365          | rVB      | 197427         | 643626        | 46.60%          | 3.520%        |
| 7         | 4.428       | 374           | 385         | 395          | rBV      | 34229          | 155040        | 11.22%          | 0.848%        |
| 8         | 4.872       | 422           | 430         | 444          | rBV2     | 389401         | 1381254       | 100.00%         | 7.554%        |
| 9         | 5.602       | 497           | 504         | 519          | rVV      | 479177         | 1293925       | 93.68%          | 7.077%        |
| 10        | 7.564       | 697           | 703         | 708          | rBV      | 484501         | 1138897       | 82.45%          | 6.229%        |
| 11        | 7.623       | 708           | 709         | 715          | rVB      | 22939          | 41329         | 2.99%           | 0.226%        |
| 12        | 8.225       | 764           | 770         | 780          | rBV4     | 8715           | 34100         | 2.47%           | 0.186%        |
| 13        | 9.783       | 922           | 928         | 937          | rBV      | 564194         | 1265200       | 91.60%          | 6.919%        |
| 14        | 9.891       | 937           | 939         | 945          | rVB4     | 11798          | 24627         | 1.78%           | 0.135%        |
| 15        | 10.670      | 1015          | 1018        | 1021         | rBV3     | 10150          | 23426         | 1.70%           | 0.128%        |
| 16        | 10.709      | 1021          | 1022        | 1027         | rVB2     | 10163          | 17282         | 1.25%           | 0.095%        |
| 17        | 11.124      | 1060          | 1064        | 1066         | rVV3     | 14628          | 31165         | 2.26%           | 0.170%        |
| 18        | 11.163      | 1066          | 1068        | 1071         | rVV      | 11273          | 18682         | 1.35%           | 0.102%        |
| 19        | 11.272      | 1073          | 1079        | 1083         | rVB3     | 18636          | 41861         | 3.03%           | 0.229%        |
| 20        | 11.419      | 1088          | 1094        | 1100         | rBV      | 468885         | 871736        | 63.11%          | 4.768%        |
| 21        | 11.557      | 1105          | 1108        | 1115         | rBV3     | 36948          | 84769         | 6.14%           | 0.464%        |
| 22        | 11.656      | 1115          | 1118        | 1121         | rVB      | 94727          | 134987        | 9.77%           | 0.738%        |
| 23        | 11.725      | 1121          | 1125        | 1128         | rVB      | 26424          | 49921         | 3.61%           | 0.273%        |
| 24        | 11.824      | 1132          | 1135        | 1139         | rVB      | 41802          | 63021         | 4.56%           | 0.345%        |
| 25        | 11.893      | 1139          | 1142        | 1144         | rBV2     | 11304          | 19222         | 1.39%           | 0.105%        |
| 26        | 11.952      | 1144          | 1148        | 1150         | rBV3     | 9118           | 16584         | 1.20%           | 0.091%        |
| 27        | 12.001      | 1150          | 1153        | 1154         | rBV2     | 37630          | 62230         | 4.51%           | 0.340%        |
| 28        | 12.159      | 1165          | 1169        | 1171         | rBV2     | 23985          | 53492         | 3.87%           | 0.293%        |
| 29        | 12.208      | 1171          | 1174        | 1178         | rVB2     | 69440          | 112877        | 8.17%           | 0.617%        |
| 30        | 12.297      | 1180          | 1183        | 1185         | rBV3     | 8122           | 14933         | 1.08%           | 0.082%        |
| 31        | 12.386      | 1189          | 1192        | 1194         | rBV      | 44435          | 74339         | 5.38%           | 0.407%        |
| 32        | 12.425      | 1194          | 1196        | 1198         | rVV2     | 42752          | 65975         | 4.78%           | 0.361%        |
| 33        | 12.465      | 1198          | 1200        | 1205         | rVB      | 59314          | 97030         | 7.02%           | 0.531%        |
| 34        | 12.553      | 1205          | 1209        | 1213         | rBV      | 831995         | 1320616       | 95.61%          | 7.223%        |

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## 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\82F021319S.M  
 Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 12.613 | 1213 | 1215 | 1219 | rVB  | 104257 | 143863 | 10.42% | 0.787% |
| 36 | 12.721 | 1224 | 1226 | 1229 | rBV2 | 60158  | 122000 | 8.83%  | 0.667% |
| 37 | 12.780 | 1229 | 1232 | 1233 | rBV  | 48283  | 74747  | 5.41%  | 0.409% |
| 38 | 12.820 | 1233 | 1236 | 1242 | rVB2 | 293350 | 546135 | 39.54% | 2.987% |
| 39 | 12.938 | 1245 | 1248 | 1249 | rBV2 | 33806  | 54910  | 3.98%  | 0.300% |
| 40 | 13.007 | 1253 | 1255 | 1259 | rVB  | 73741  | 125188 | 9.06%  | 0.685% |
| 41 | 13.096 | 1259 | 1264 | 1268 | rBV2 | 81382  | 234391 | 16.97% | 1.282% |
| 42 | 13.155 | 1268 | 1270 | 1272 | rBV  | 83558  | 118819 | 8.60%  | 0.650% |
| 43 | 13.204 | 1272 | 1275 | 1276 | rBV3 | 50184  | 70947  | 5.14%  | 0.388% |
| 44 | 13.293 | 1282 | 1284 | 1287 | rBV3 | 56379  | 94320  | 6.83%  | 0.516% |
| 45 | 13.342 | 1287 | 1289 | 1291 | rVV2 | 47265  | 66395  | 4.81%  | 0.363% |
| 46 | 13.382 | 1291 | 1293 | 1295 | rVB2 | 70890  | 90786  | 6.57%  | 0.497% |
| 47 | 13.421 | 1295 | 1297 | 1302 | rBV2 | 89025  | 133071 | 9.63%  | 0.728% |
| 48 | 13.490 | 1302 | 1304 | 1307 | rVB2 | 84521  | 118986 | 8.61%  | 0.651% |
| 49 | 13.540 | 1307 | 1309 | 1311 | rBV  | 86275  | 133253 | 9.65%  | 0.729% |
| 50 | 13.579 | 1311 | 1313 | 1315 | rVB3 | 40418  | 53075  | 3.84%  | 0.290% |
| 51 | 13.707 | 1323 | 1326 | 1330 | rBV2 | 445553 | 689391 | 49.91% | 3.770% |
| 52 | 13.766 | 1330 | 1332 | 1335 | rVB2 | 50611  | 82662  | 5.98%  | 0.452% |
| 53 | 13.816 | 1335 | 1337 | 1338 | rBV  | 57633  | 70752  | 5.12%  | 0.387% |
| 54 | 13.855 | 1338 | 1341 | 1345 | rVV3 | 328227 | 617675 | 44.72% | 3.378% |
| 55 | 13.924 | 1345 | 1348 | 1350 | rVB2 | 91019  | 155495 | 11.26% | 0.850% |
| 56 | 13.973 | 1350 | 1353 | 1356 | rBV  | 223018 | 304721 | 22.06% | 1.667% |
| 57 | 14.082 | 1359 | 1364 | 1367 | rBV  | 81838  | 197319 | 14.29% | 1.079% |
| 58 | 14.151 | 1367 | 1371 | 1376 | rBV5 | 158529 | 424731 | 30.75% | 2.323% |
| 59 | 14.220 | 1376 | 1378 | 1381 | rVV3 | 145491 | 217682 | 15.76% | 1.191% |
| 60 | 14.269 | 1381 | 1383 | 1385 | rVV2 | 29157  | 40681  | 2.95%  | 0.222% |
| 61 | 14.299 | 1385 | 1386 | 1389 | rVB  | 48499  | 63511  | 4.60%  | 0.347% |
| 62 | 14.407 | 1394 | 1397 | 1400 | rBV3 | 110413 | 195435 | 14.15% | 1.069% |
| 63 | 14.457 | 1400 | 1402 | 1405 | rBV2 | 282741 | 397472 | 28.78% | 2.174% |
| 64 | 14.565 | 1410 | 1413 | 1414 | rVV3 | 40564  | 55172  | 3.99%  | 0.302% |
| 65 | 14.595 | 1414 | 1416 | 1420 | rVB2 | 111292 | 158306 | 11.46% | 0.866% |
| 66 | 14.743 | 1428 | 1431 | 1435 | rVB  | 423023 | 582905 | 42.20% | 3.188% |
| 67 | 14.831 | 1436 | 1440 | 1441 | rVV2 | 41025  | 79250  | 5.74%  | 0.433% |
| 68 | 14.871 | 1441 | 1444 | 1450 | rVV4 | 92423  | 309492 | 22.41% | 1.693% |
| 69 | 14.950 | 1450 | 1452 | 1454 | rVB2 | 32753  | 48979  | 3.55%  | 0.268% |
| 70 | 14.999 | 1454 | 1457 | 1465 | rVB2 | 227905 | 402938 | 29.17% | 2.204% |
| 71 | 15.117 | 1465 | 1469 | 1472 | rBV  | 320804 | 520895 | 37.71% | 2.849% |

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|    |        |      |      |      |      |       |        |        |        |
|----|--------|------|------|------|------|-------|--------|--------|--------|
| 72 | 15.167 | 1473 | 1474 | 1477 | rVV3 | 77570 | 96177  | 6.96%  | 0.526% |
| 73 | 15.216 | 1477 | 1479 | 1480 | rVV  | 17814 | 25878  | 1.87%  | 0.142% |
| 74 | 15.245 | 1480 | 1482 | 1483 | rVV  | 26491 | 34030  | 2.46%  | 0.186% |
| 75 | 15.285 | 1483 | 1486 | 1488 | rVV4 | 50314 | 92969  | 6.73%  | 0.508% |
|    |        |      |      |      |      |       |        |        |        |
| 76 | 15.354 | 1488 | 1493 | 1496 | rVV2 | 85528 | 207563 | 15.03% | 1.135% |
| 77 | 15.413 | 1496 | 1499 | 1501 | rVB2 | 35599 | 56204  | 4.07%  | 0.307% |
| 78 | 15.571 | 1513 | 1515 | 1517 | rVB2 | 18495 | 18408  | 1.33%  | 0.101% |
| 79 | 15.610 | 1517 | 1519 | 1520 | rBV2 | 12585 | 18638  | 1.35%  | 0.102% |
| 80 | 15.640 | 1520 | 1522 | 1528 | rVB  | 98873 | 192216 | 13.92% | 1.051% |
|    |        |      |      |      |      |       |        |        |        |
| 81 | 15.719 | 1528 | 1530 | 1534 | rVB5 | 20420 | 33295  | 2.41%  | 0.182% |
| 82 | 15.788 | 1534 | 1537 | 1539 | rBV  | 56776 | 79247  | 5.74%  | 0.433% |
| 83 | 15.946 | 1549 | 1553 | 1555 | rBV5 | 21321 | 49707  | 3.60%  | 0.272% |
| 84 | 15.985 | 1555 | 1557 | 1565 | rVB5 | 25970 | 84727  | 6.13%  | 0.463% |

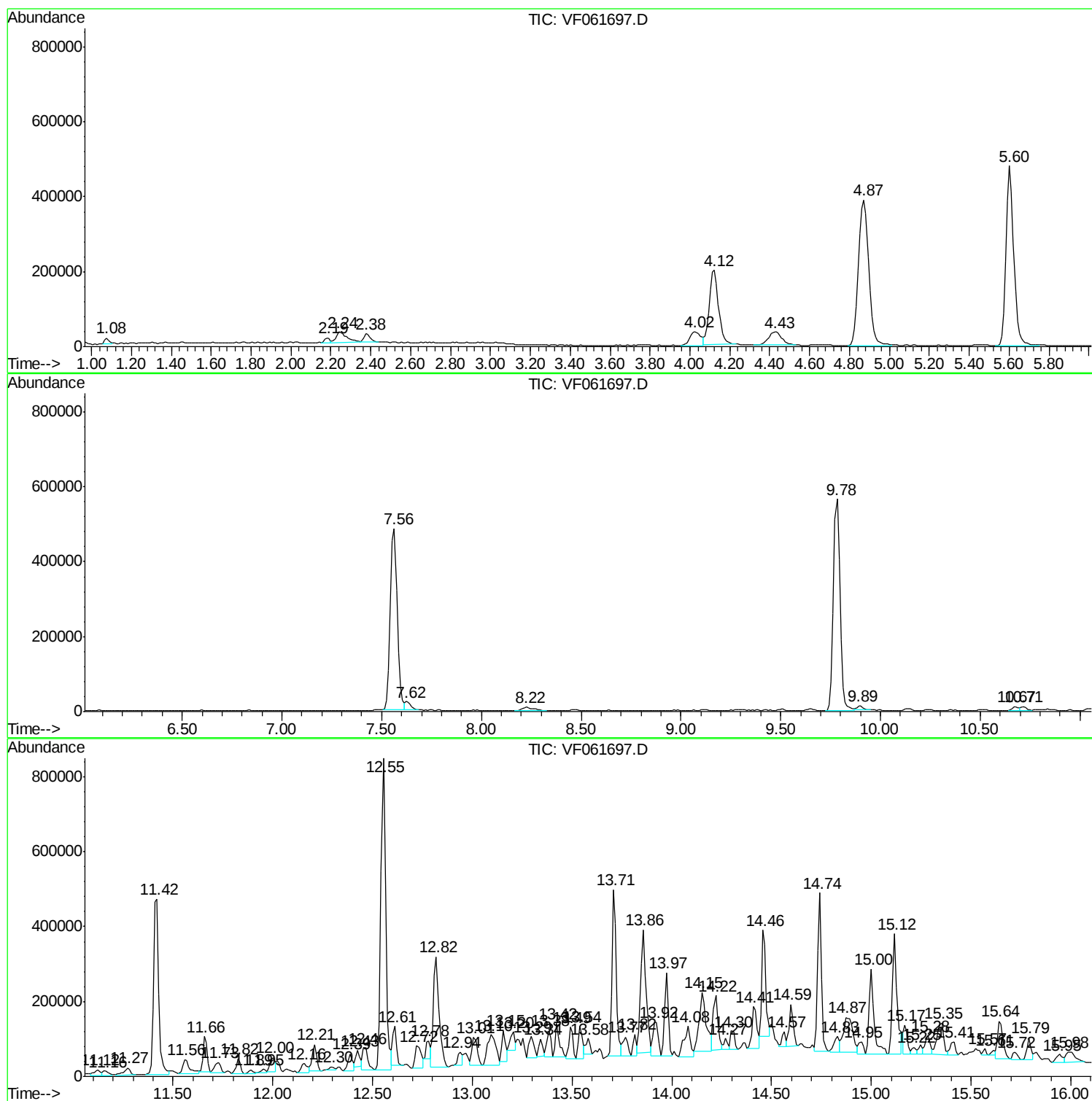
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Instrument :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

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



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Instrument :  
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ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

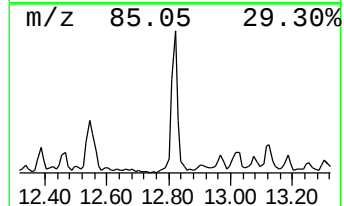
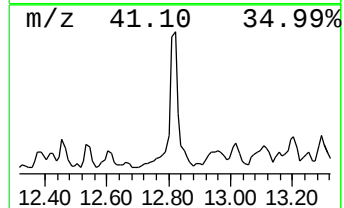
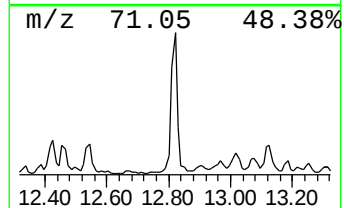
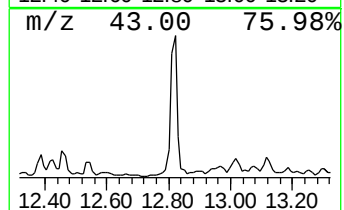
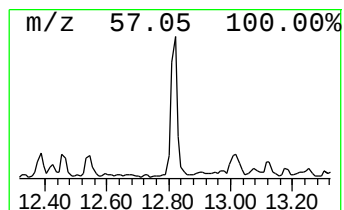
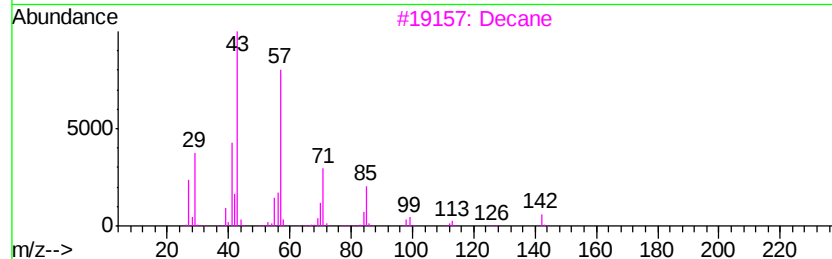
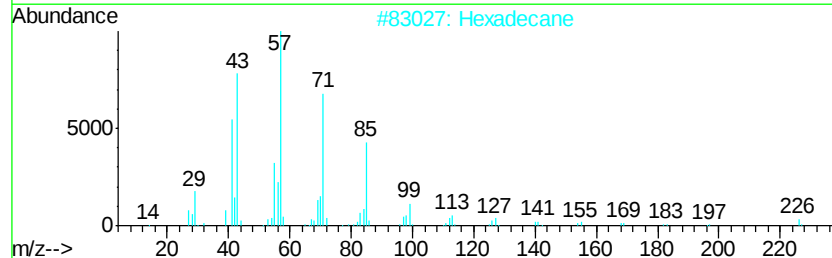
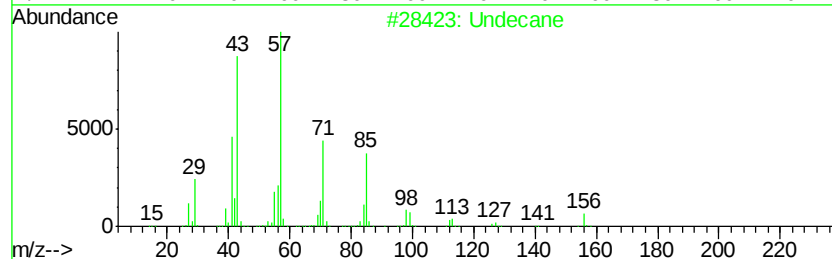
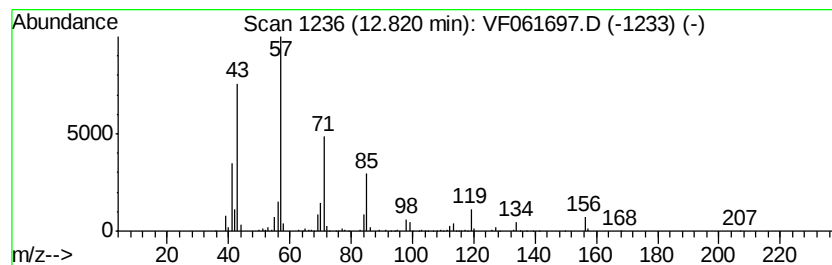
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Undecane Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.82 | 20.68 ug/l | 546135 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Undecane     | 156 | C11H24  | 001120-21-4 | 93   |
| 2    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 72   |
| 3    |    | Decane       | 142 | C10H22  | 000124-18-5 | 72   |
| 4    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 72   |
| 5    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 64   |



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Quant Title : SW846 8260

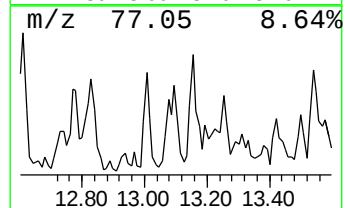
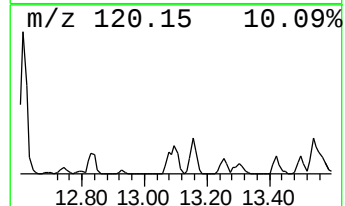
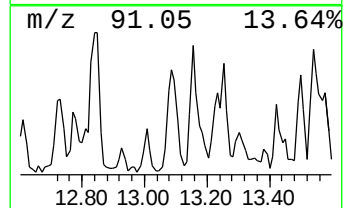
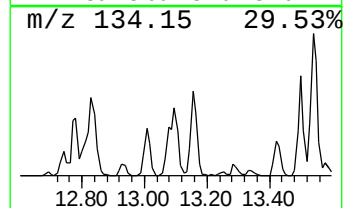
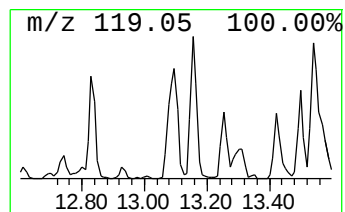
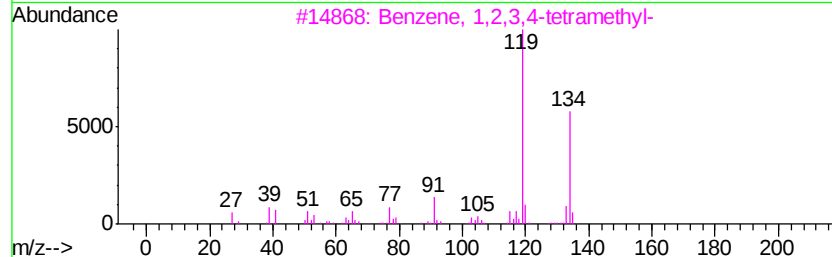
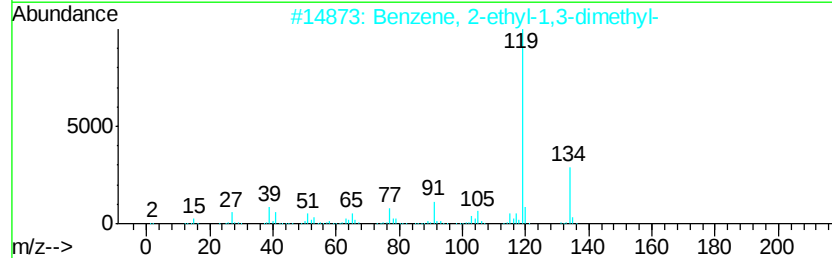
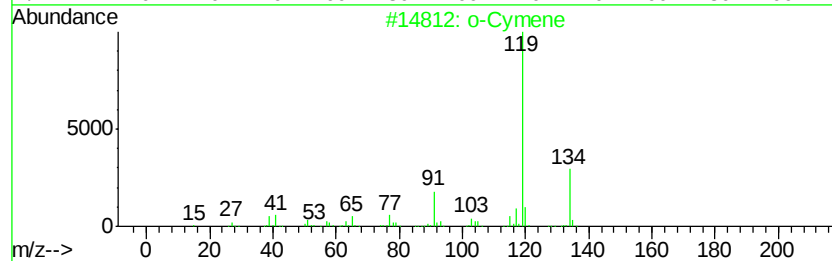
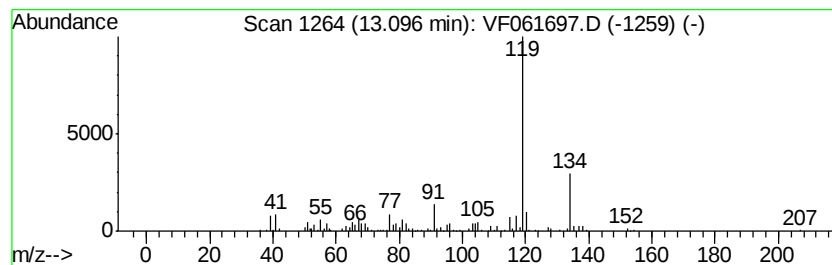
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 o-Cymene Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.10 | 8.87 ug/l | 234391 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 95   |
| 2    |    | Benzene, 2-ethyl-1,3-dimethyl-      | 134 | C10H14  | 002870-04-4 | 93   |
| 3    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 90   |
| 4    |    | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14  | 076089-59-3 | 90   |
| 5    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 90   |



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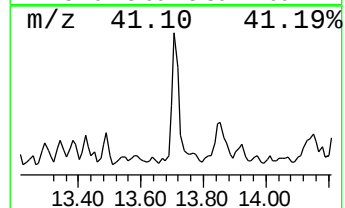
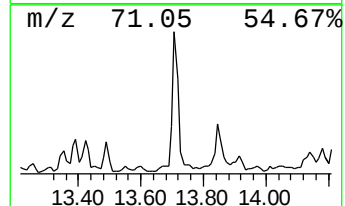
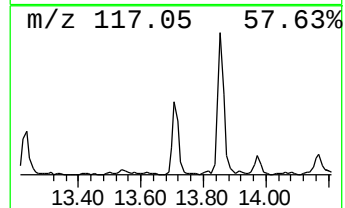
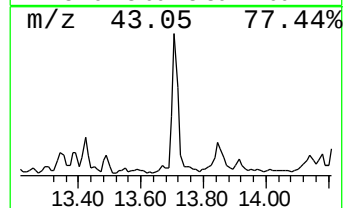
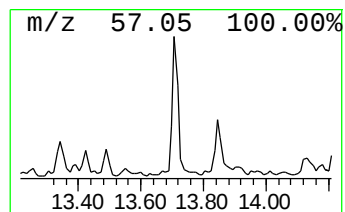
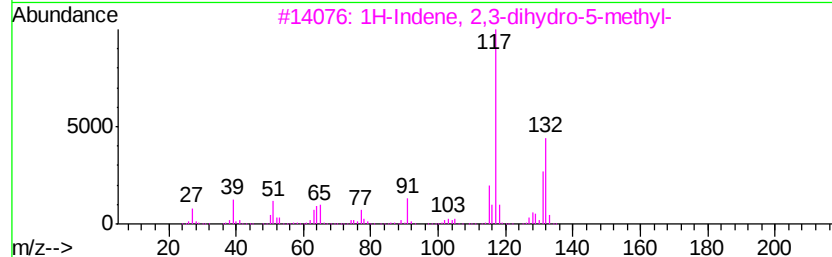
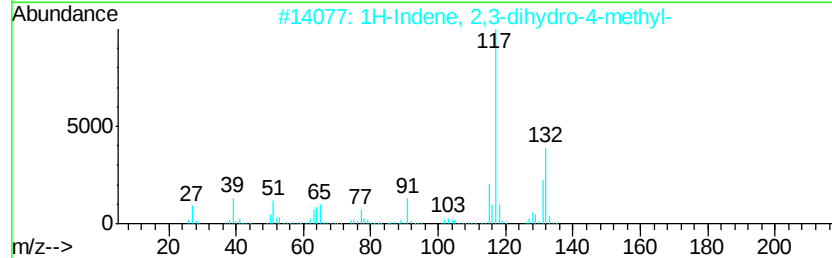
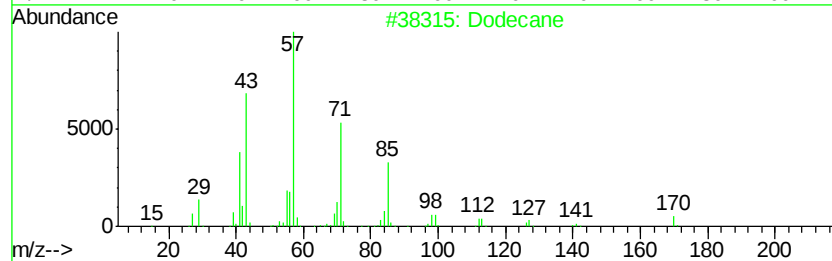
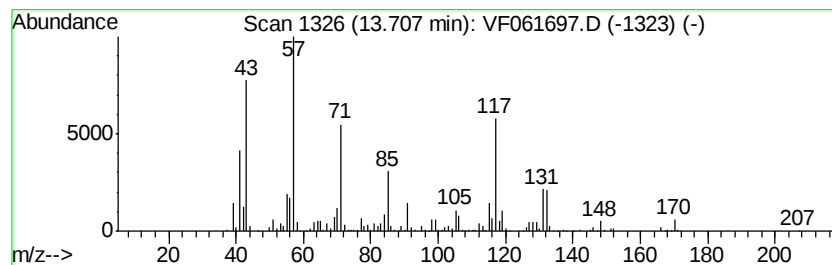
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Dodecane Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.71 | 26.10 ug/l | 689391 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                     | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane                         | 170 | C12H26  | 000112-40-3 | 89   |
| 2    |    | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12  | 000824-22-6 | 80   |
| 3    |    | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12  | 000874-35-1 | 42   |
| 4    |    | Nonane                           | 128 | C9H20   | 000111-84-2 | 35   |
| 5    |    | Benzene, 1-ethenyl-4-ethyl-      | 132 | C10H12  | 003454-07-7 | 35   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

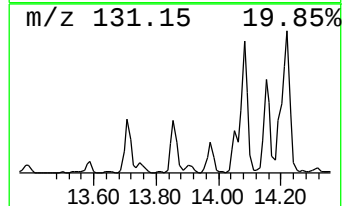
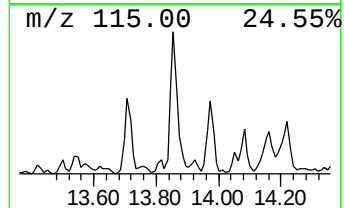
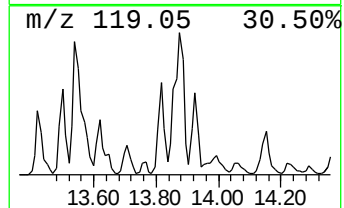
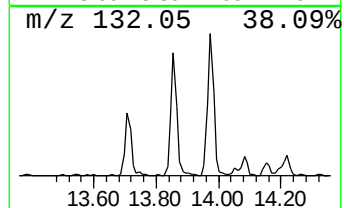
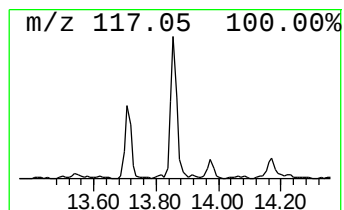
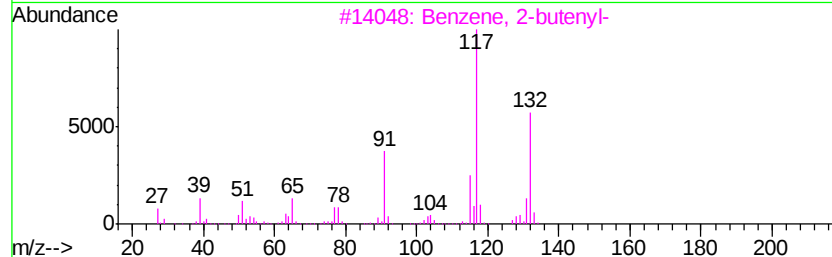
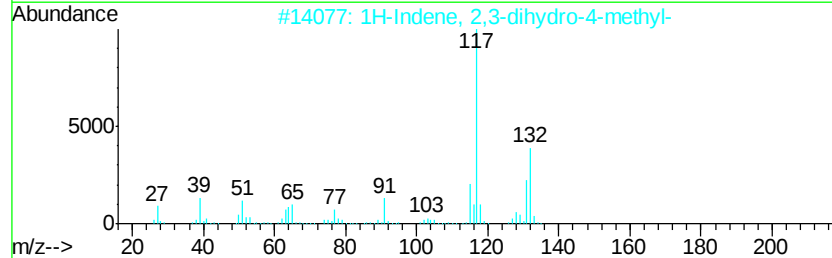
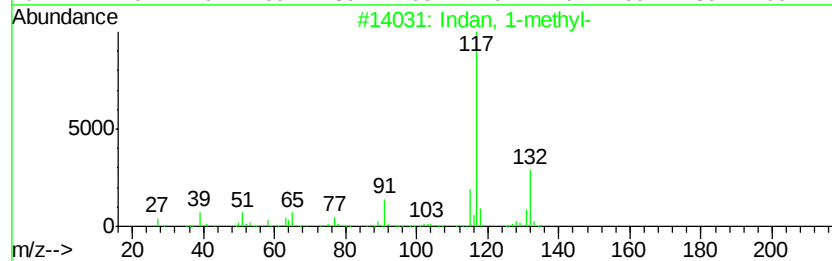
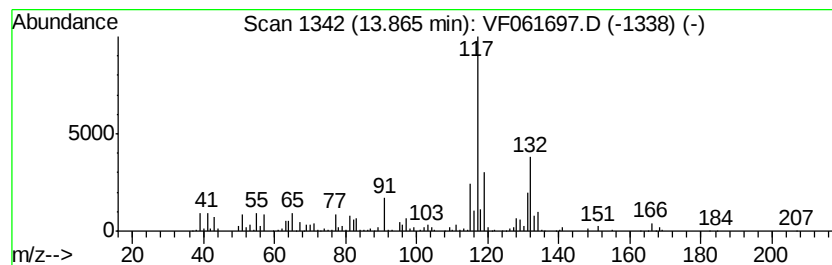
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 4 Indan, 1-methyl- Concentration Rank 2

| R.T.    | EstConc                           | Area         | Relative to ISTD       | R.T.      |
|---------|-----------------------------------|--------------|------------------------|-----------|
| 13.86   | 23.39 ug/l                        | 617675       | 1,4-Dichlorobenzene-d4 | 12.55     |
| Hit# of | 5                                 | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Indan, 1-methyl-                  | 132 C10H12   | 000767-58-8            | 87        |
| 2       | 1H-Indene, 2,3-dihydro-4-methyl-  | 132 C10H12   | 000824-22-6            | 87        |
| 3       | Benzene, 2-butenyl-               | 132 C10H12   | 001560-06-1            | 83        |
| 4       | Benzene, 1-methyl-2-(2-propenyl)- | 132 C10H12   | 001587-04-8            | 83        |
| 5       | 1H-Indene, 2,3-dihydro-2-methyl-  | 132 C10H12   | 000824-63-5            | 80        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

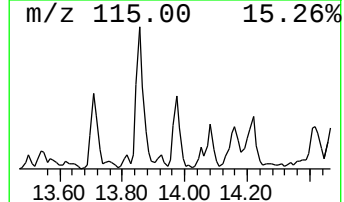
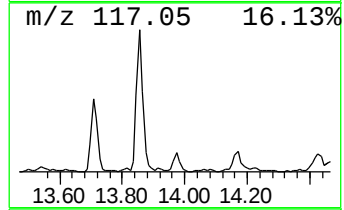
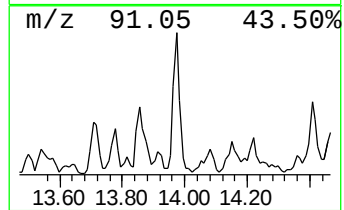
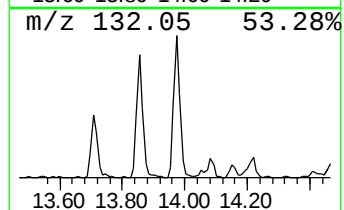
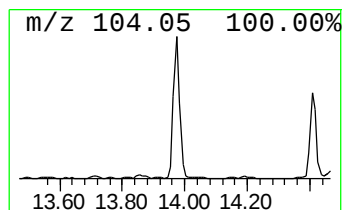
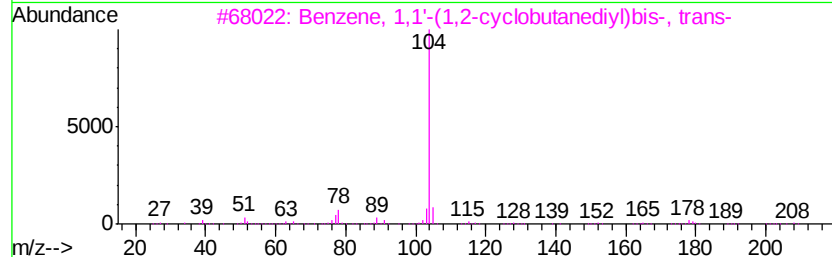
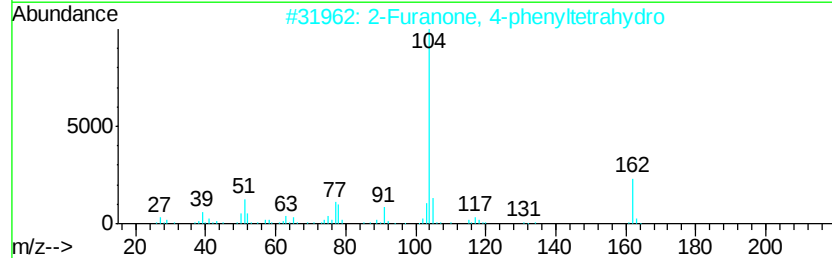
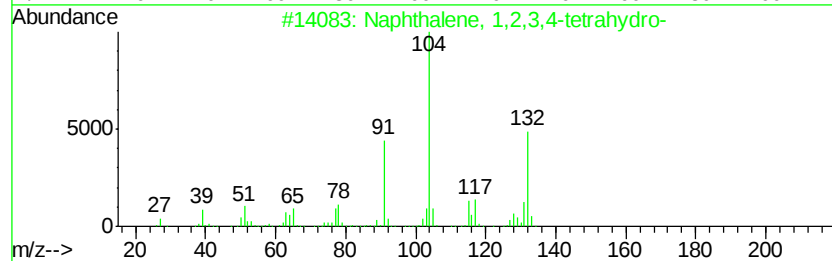
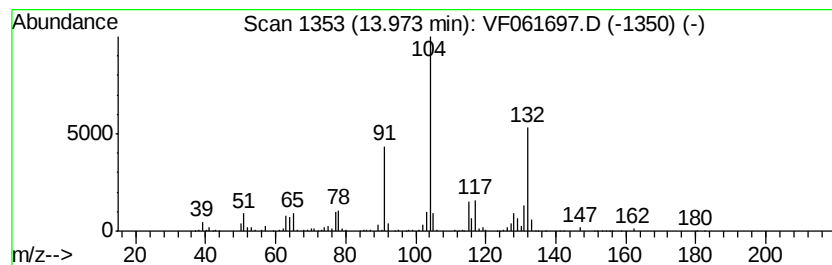
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 13.97 | 11.54 ug/l | 304721 | 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  | 97   |
| 2    |    | 2-Furanone, 4-phenyltetrahydro      | 162 | C10H10O2 | 1000197-38-4 | 38   |
| 3    |    | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16   | 020071-09-4  | 38   |
| 4    |    | 2-Propenoic acid, 2-phenylethyl ... | 176 | C11H12O2 | 003530-36-7  | 38   |
| 5    |    | Benzene, 1,1'-(1,2-cyclobutanedi... | 208 | C16H16   | 007694-30-6  | 38   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

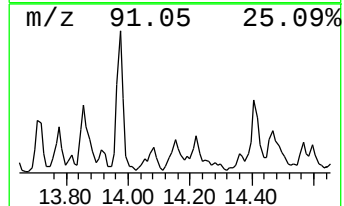
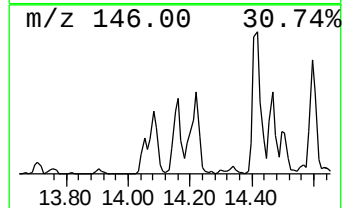
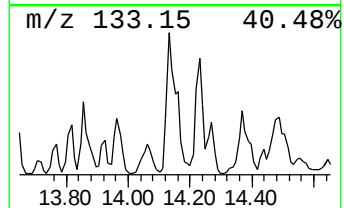
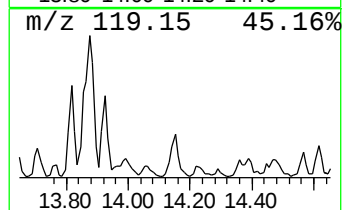
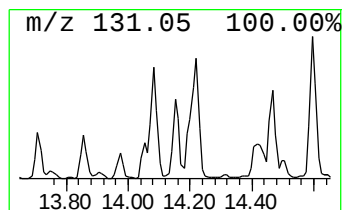
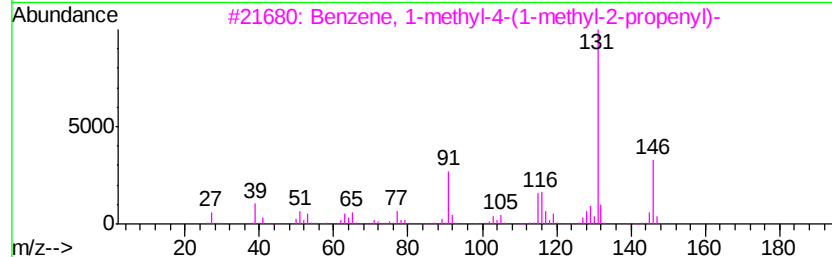
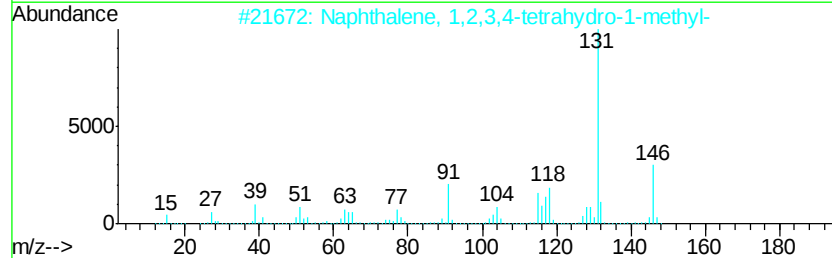
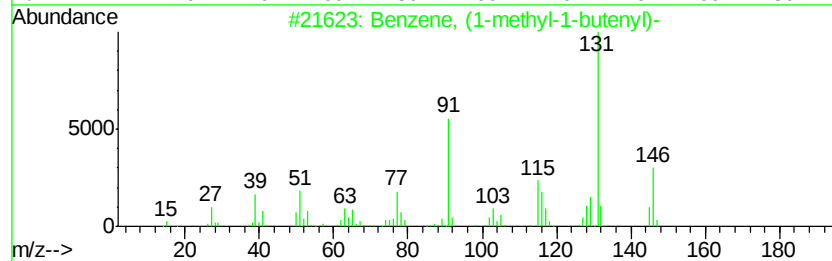
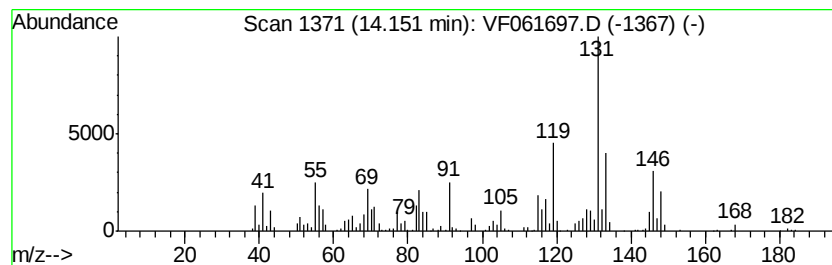
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

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

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

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.           |
|---------|------------|-------------------------------------|------------------------|----------------|
| 14.15   | 16.08 ug/l | 424731                              | 1,4-Dichlorobenzene-d4 | 12.55          |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual      |
| 1       |            | Benzene, (1-methyl-1-butenyl)-      | 146 C11H14             | 053172-84-2 70 |
| 2       |            | Naphthalene, 1,2,3,4-tetrahydro-... | 146 C11H14             | 001559-81-5 70 |
| 3       |            | Benzene, 1-methyl-4-(1-methyl-2-... | 146 C11H14             | 097664-18-1 60 |
| 4       |            | Benzene, 1-methyl-3-(1-methyl-2-... | 146 C11H14             | 052161-57-6 60 |
| 5       |            | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 C11H14             | 006682-71-9 55 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

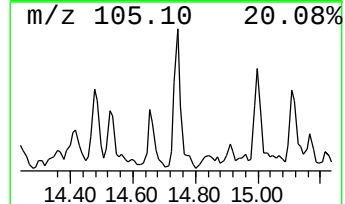
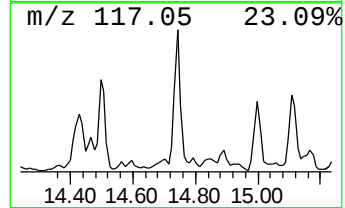
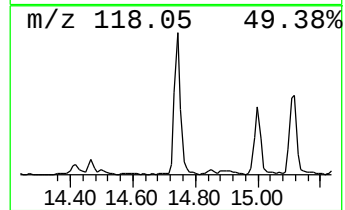
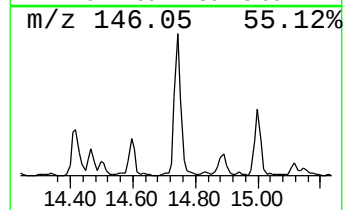
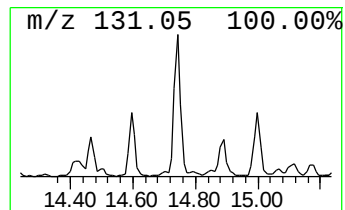
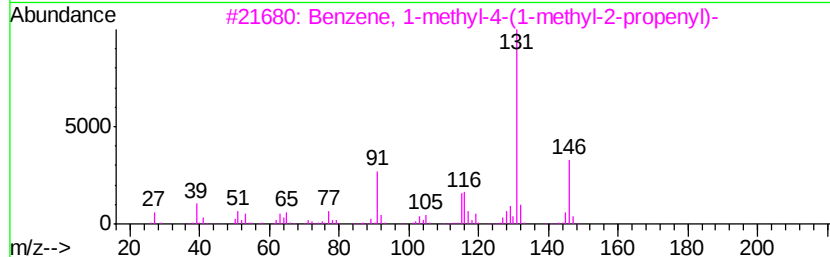
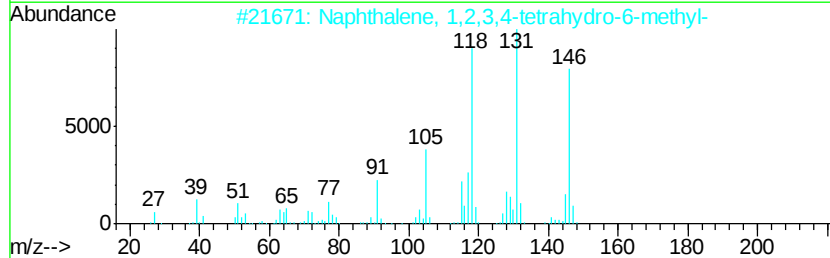
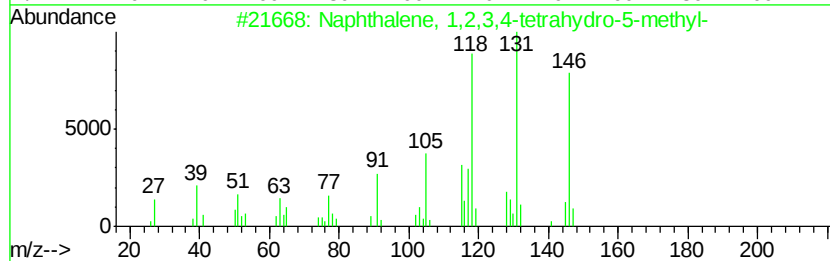
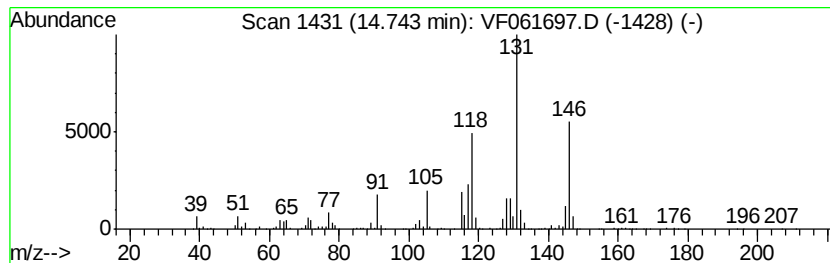
Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

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

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

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.74   | 22.07 ug/l                          | 582905       | 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            | 94        |
| 3       | Benzene, 1-methyl-4-(1-methyl-2-... | 146 C11H14   | 097664-18-1            | 70        |
| 4       | Benzene, (2-methyl-1-butenyl)-      | 146 C11H14   | 056253-64-6            | 70        |
| 5       | Benzene, (1-methyl-1-butenyl)-      | 146 C11H14   | 053172-84-2            | 62        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

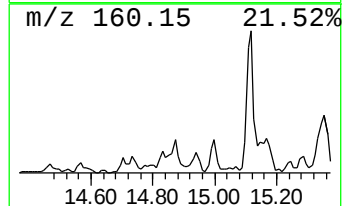
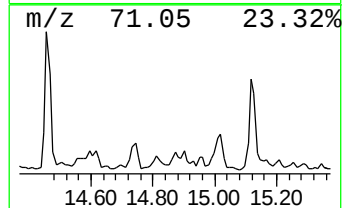
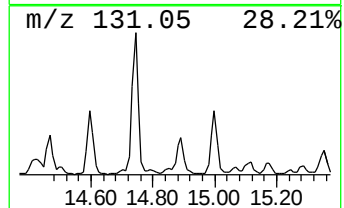
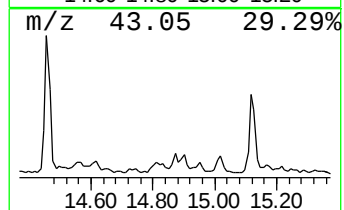
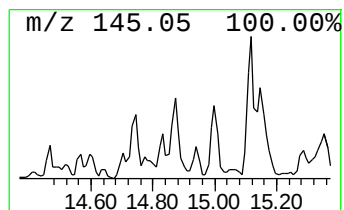
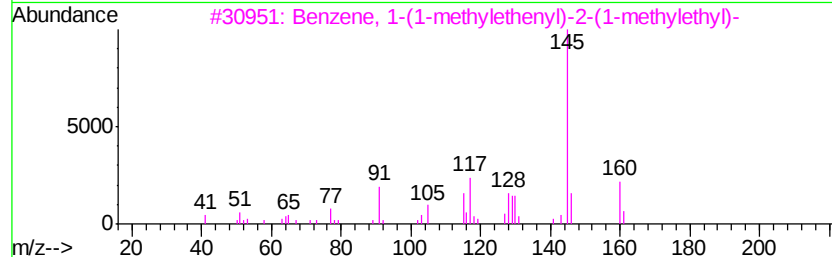
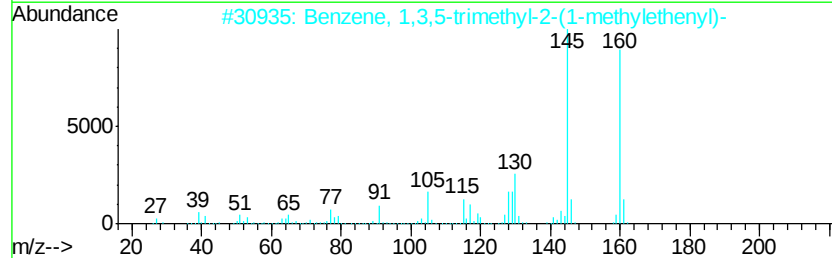
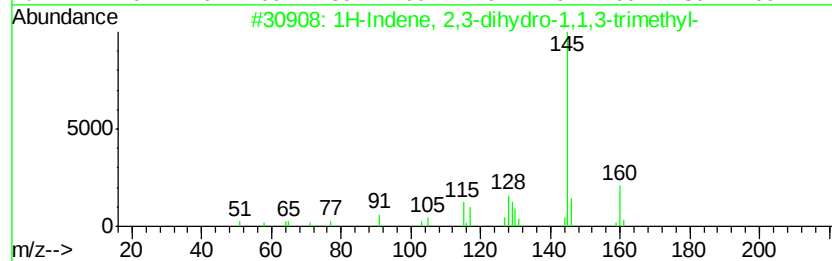
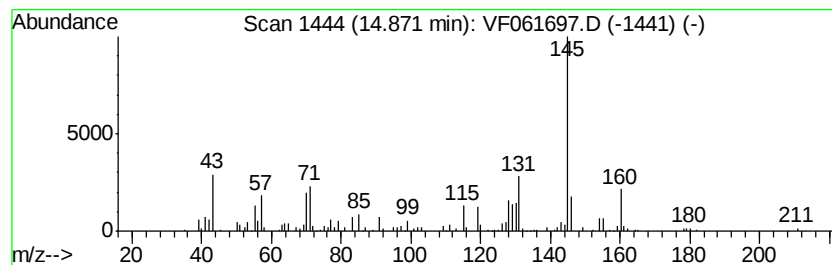
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 14.87 | 11.72 ug/l | 309492 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16  | 002613-76-5 | 70   |
| 2    |    | Benzene, 1,3,5-trimethyl-2-(1-me... | 160 | C12H16  | 014679-13-1 | 64   |
| 3    |    | Benzene, 1-(1-methylethenyl)-2-(... | 160 | C12H16  | 005557-93-7 | 64   |
| 4    |    | 1H-Indene, 2,3-dihydro-1,5,7-tri... | 160 | C12H16  | 054340-88-4 | 60   |
| 5    |    | 1H-Indene, 2,3-dihydro-1,1,6-tri... | 160 | C12H16  | 014276-95-0 | 60   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampled :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

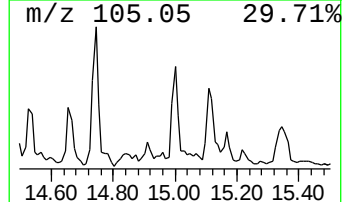
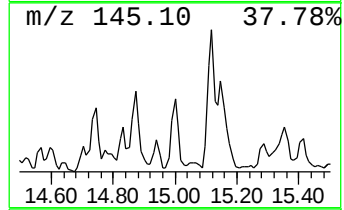
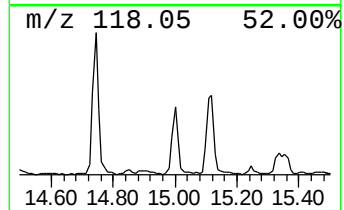
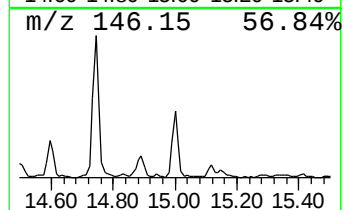
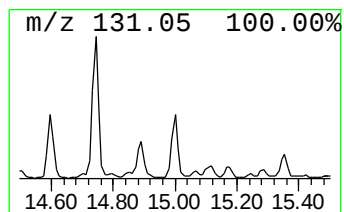
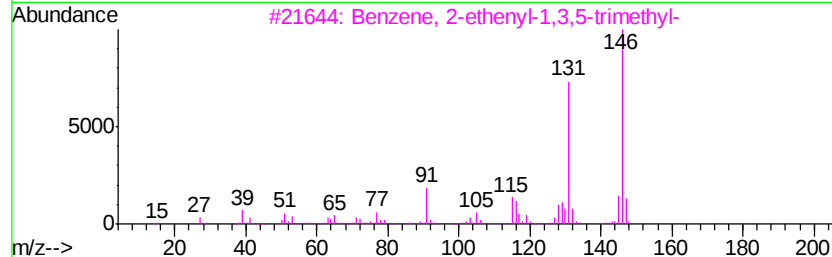
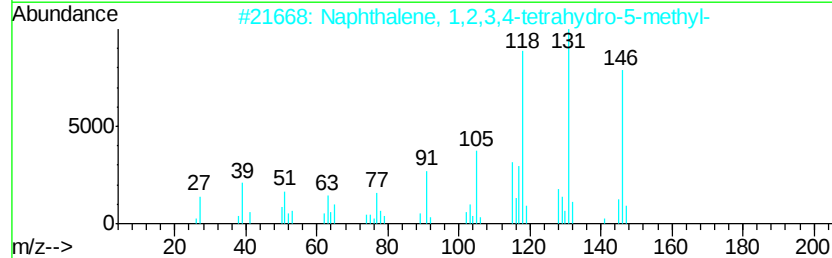
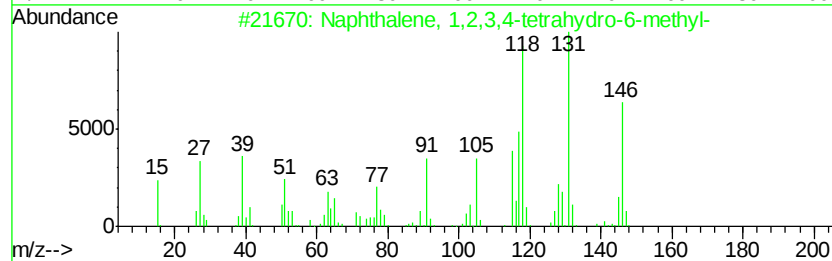
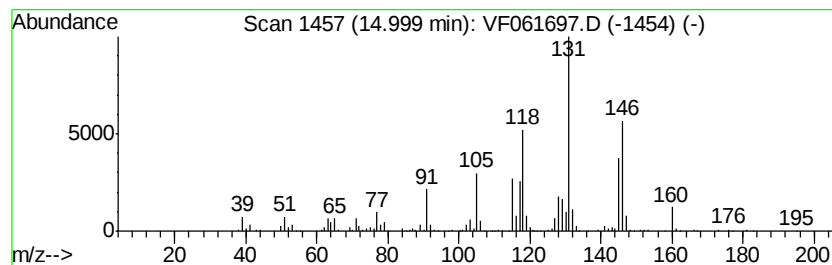
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 1,2,3,4-tetra... Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.00 | 15.26 ug/l | 402938 | 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 | 94   |
| 2    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14  | 002809-64-5 | 93   |
| 3    |    | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14  | 000769-25-5 | 83   |
| 4    |    | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14  | 017057-82-8 | 70   |
| 5    |    | 2-Propenal, 3-(4-methylphenyl)-     | 146 | C10H10O | 001504-75-2 | 70   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\  
Data File : VF061697.D  
Acq On : 21 Feb 2019 14:44  
Operator : VA/AP  
Sample : K1344-01  
Misc : 6.58g/5mL/MSVOA-F/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
NB-08-022019-A

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.M  
Quant Title : SW846 8260

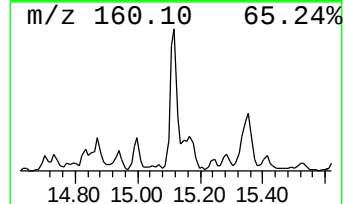
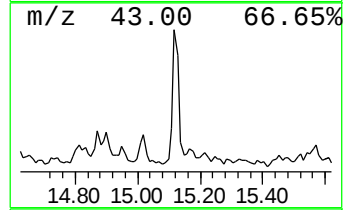
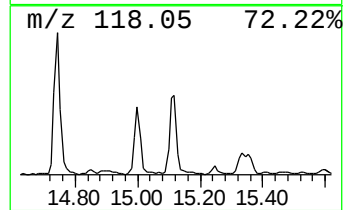
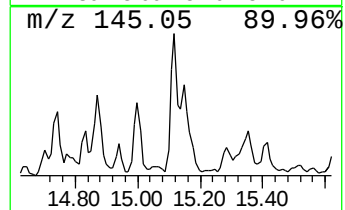
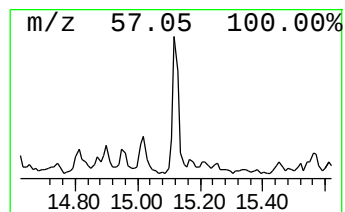
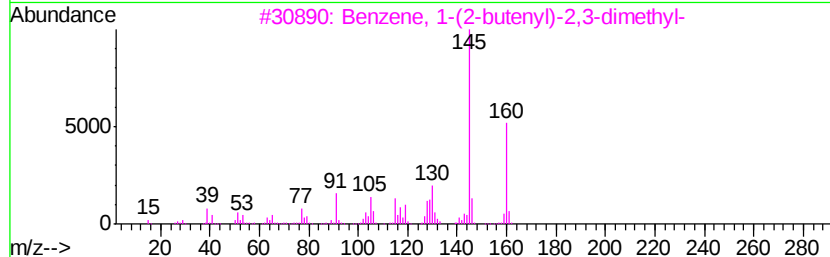
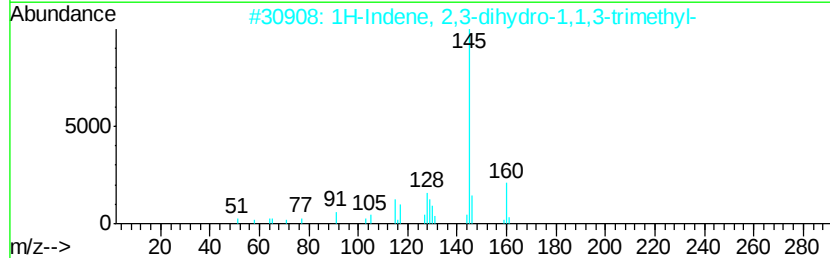
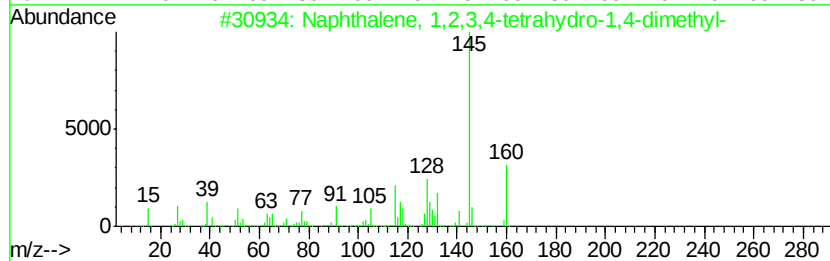
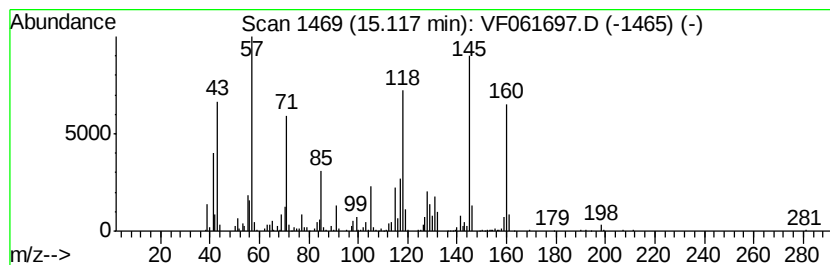
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphthalene, 1,2,3,4-tetra... Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 15.12 | 19.72 ug/l | 520895 | 1,4-Dichlorobenzene-d4 | 12.55 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 90   |
| 2    |    | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16  | 002613-76-5 | 64   |
| 3    |    | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16  | 054340-85-1 | 64   |
| 4    |    | Tetradecane                         | 198 | C14H30  | 000629-59-4 | 59   |
| 5    |    | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1 | 55   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\DATA\VF022119\  
 Data File : VF061697.D  
 Acq On : 21 Feb 2019 14:44  
 Operator : VA/AP  
 Sample : K1344-01  
 Misc : 6.58g/5mL/MSVOA-F/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 NB-08-022019-A

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F021319S.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 |
| Undecane             | 12.82 | 20.7    | ug/l  | 546135   | 4                     | 12.55 | 1320620 | 50.0 |
| o-Cymene             | 13.10 | 8.9     | ug/l  | 234391   | 4                     | 12.55 | 1320620 | 50.0 |
| Dodecane             | 13.71 | 26.1    | ug/l  | 689391   | 4                     | 12.55 | 1320620 | 50.0 |
| Indan, 1-methyl-     | 13.86 | 23.4    | ug/l  | 617675   | 4                     | 12.55 | 1320620 | 50.0 |
| Naphthalene, 1,2,... | 13.97 | 11.5    | ug/l  | 304721   | 4                     | 12.55 | 1320620 | 50.0 |
| Benzene, (1-methy... | 14.15 | 16.1    | ug/l  | 424731   | 4                     | 12.55 | 1320620 | 50.0 |
| Naphthalene, 1,2,... | 14.74 | 22.1    | ug/l  | 582905   | 4                     | 12.55 | 1320620 | 50.0 |
| 1H-Indene, 2,3-di... | 14.87 | 11.7    | ug/l  | 309492   | 4                     | 12.55 | 1320620 | 50.0 |
| Naphthalene, 1,2,... | 15.00 | 15.3    | ug/l  | 402938   | 4                     | 12.55 | 1320620 | 50.0 |
| Naphthalene, 1,2,... | 15.12 | 19.7    | ug/l  | 520895   | 4                     | 12.55 | 1320620 | 50.0 |