LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.105 | 345 | 352 | 360 | rVB3 | 8931 | 31965 | 1.44% | 0.132% |
| 2 | 4.854 | 422 | 428 | 437 | rBV3 | 24076 | 82297 | 3.72% | 0.339% |
| 3 | 5.594 | 496 | 503 | 512 | rVV | 28374 | 77850 | 3.52% | 0.321% |
| 4 | 7.547 | 697 | 701 | 705 | rBV2 | 31017 | 70143 | 3.17% | 0.289% |
| 5 | 7.616 | 705 | 708 | 714 | rVB2 | 14600 | 31787 | 1.44% | 0.131% |
| 6 | 8.248 | 764 | 772 | 778 | rBV3 | 18267 | 55096 | 2.49% | 0.227% |
| 7 | 8.613 | 803 | 809 | 815 | rBV4 | 13395 | 45632 | 2.06% | 0.188% |
| 8 | 8.958 | 840 | 844 | 847 | rBV3 | 10722 | 26423 | 1.19% | 0.109% |
| 9 | 9.283 | 873 | 877 | 881 | rBV2 | 10033 | 24241 | 1.10% | 0.100% |
| 10 | 9.767 | 921 | 926 | 930 | rBV3 | 31110 | 73907 | 3.34% | 0.305% |
| 11 | 9.895 | 934 | 939 | 944 | rVB | 86646 | 184382 | 8.33% | 0.760% |
| 12 | 10.122 | 958 | 962 | 966 | rBV | 31279 | 65051 | 2.94% | 0.268% |
| 13 | 10.220 | 967 | 972 | 981 | rVB6 | 20857 | 67401 | 3.05% | 0.278% |
| 14 | 10.507 | 996 | 1001 | 1006 | rVB5 | 22396 | 55555 | 2.51% | 0.229% |
| 15 | 10.664 | 1012 | 1017 | 1019 | rBV3 | 56263 | 121781 | 5.50% | 0.502% |
| 16 | 10.704 | 1019 | 1021 | 1026 | rVB | 66704 | 114934 | 5.19% | 0.474% |
| 17 | 10.832 | 1030 | 1034 | 1041 | rVB4 | 30891 | 89085 | 4.03% | 0.367% |
| 18 | 10.980 | 1046 | 1049 | 1051 | rVV3 | 13741 | 26847 | 1.21% | 0.111% |
| 19 | 11.049 | 1051 | 1056 | 1059 | rVV4 | 21440 | 74223 | 3.35% | 0.306% |
| 20 | 11.118 | 1059 | 1063 | 1066 | rVV | 124553 | 279351 | 12.63% | 1.152% |
| 21 | 11.207 | 1070 | 1072 | 1075 | rVV3 | 51325 | 120950 | 5.47% | 0.499% |
| 22 | 11.266 | 1075 | 1078 | 1084 | rVB2 | 75800 | 152835 | 6.91% | 0.630% |
| 23 | 11.424 | 1091 | 1094 | 1097 | rBV4 | 13081 | 29947 | 1.35% | 0.123% |
| 24 | 11.493 | 1097 | 1101 | 1104 | rVB | 68002 | 109924 | 4.97% | 0.453% |
| 25 | 11.552 | 1104 | 1107 | 1108 | rBV | 43641 | 72356 | 3.27% | 0.298% |
| 26 | 11.611 | 1110 | 1113 | 1116 | rVV3 | 56689 | 105920 | 4.79% | 0.437% |
| 27 | 11.651 | 1116 | 1117 | 1120 | rVB2 | 36520 | 41030 | 1.85% | 0.169% |
| 28 | 11.720 | 1120 | 1124 | 1127 | rVB | 336583 | 546471 | 24.70% | 2.253% |
| 29 | 11.818 | 1131 | 1134 | 1138 | rVB | 254564 | 362968 | 16.40% | 1.497% |
| 30 | 11.947 | 1142 | 1147 | 1148 | rBV5 | 24449 | 52588 | 2.38% | 0.217% |
| 31 | 12.016 | 1148 | 1154 | 1157 | rBV | 338507 | 652001 | 29.47% | 2.688% |
| 32 | 12.154 | 1165 | 1168 | 1169 | rBV3 | 27099 | 47432 | 2.14% | 0.196% |
| 33 | 12.203 | 1169 | 1173 | 1176 | rVB | 626022 | 1059713 | 47.90% | 4.369% |
| 34 | 12.282 | 1178 | 1181 | 1184 | rVB4 | 30885 | 53973 | 2.44% | 0.223% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.331 | 1184 | 1186 | 1188 | rBV2 | 23841 | 32989 | 1.49% | 0.136% |
| 36 | 12.381 | 1188 | 1191 | 1193 | rBV2 | 35258 | 68388 | 3.09% | 0.282% |
| 37 | 12.420 | 1193 | 1195 | 1197 | rBV | 220843 | 342899 | 15.50% | 1.414% |
| 38 | 12.450 | 1197 | 1198 | 1204 | rVB | 211379 | 308459 | 13.94% | 1.272% |
| 39 | 12.529 | 1204 | 1206 | 1210 | rVB3 | 34690 | 50057 | 2.26% | 0.206% |
| 40 | 12.608 | 1210 | 1214 | 1218 | rBV | 423012 | 692036 | 31.28% | 2.853% |
| 41 | 12.716 | 1221 | 1225 | 1229 | rBV2 | 918356 | 1811178 | 81.86% | 7.467% |
| 42 | 12.795 | 1229 | 1233 | 1234 | rVV3 | 174202 | 399286 | 18.05% | 1.646% |
| 43 | 12.825 | 1234 | 1236 | 1241 | rVB | 493486 | 722829 | 32.67% | 2.980% |
| 44 | 12.894 | 1241 | 1243 | 1244 | rBV2 | 18411 | 23612 | 1.07% | 0.097% |
| 45 | 12.923 | 1244 | 1246 | 1251 | rVV4 | 46824 | 93997 | 4.25% | 0.388% |
| 46 | 13.002 | 1251 | 1254 | 1258 | rVB2 | 87704 | 142366 | 6.43% | 0.587% |
| 47 | 13.091 | 1258 | 1263 | 1265 | rBV | 304357 | 785619 | 35.51% | 3.239% |
| 48 | 13.150 | 1265 | 1269 | 1274 | rVV | 905283 | 2080284 | 94.02% | 8.577% |
| 49 | 13.219 | 1274 | 1276 | 1281 | rVV | 655770 | 1111582 | 50.24% | 4.583% |
| 50 | 13.278 | 1281 | 1282 | 1285 | rVV | 126130 | 228517 | 10.33% | 0.942% |
| 51 | 13.328 | 1285 | 1287 | 1290 | rVV2 | 161485 | 325074 | 14.69% | 1.340% |
| 52 | 13.377 | 1290 | 1292 | 1294 | rVV2 | 153601 | 269950 | 12.20% | 1.113% |
| 53 | 13.416 | 1294 | 1296 | 1301 | rVV | 200006 | 334153 | 15.10% | 1.378% |
| 54 | 13.495 | 1301 | 1304 | 1305 | rVV2 | 138966 | 228149 | 10.31% | 0.941% |
| 55 | 13.535 | 1305 | 1308 | 1310 | rVV | 338581 | 510659 | 23.08% | 2.105% |
| 56 | 13.574 | 1310 | 1312 | 1315 | rVV2 | 155720 | 279270 | 12.62% | 1.151% |
| 57 | 13.634 | 1316 | 1318 | 1322 | rVV | 145445 | 281798 | 12.74% | 1.162% |
| 58 | 13.703 | 1322 | 1325 | 1333 | rVV | 707422 | 1174409 | 53.08% | 4.842% |
| 59 | 13.801 | 1333 | 1335 | 1337 | rVV | 67021 | 119216 | 5.39% | 0.492% |
| 60 | 13.851 | 1337 | 1340 | 1345 | rVV3 | 593362 | 1413673 | 63.89% | 5.829% |
| 61 | 13.910 | 1345 | 1346 | 1348 | rVV | 53308 | 72385 | 3.27% | 0.298% |
| 62 | 13.969 | 1348 | 1352 | 1356 | rVV | 291067 | 526617 | 23.80% | 2.171% |
| 63 | 14.038 | 1356 | 1359 | 1361 | rVV | 164028 | 318432 | 14.39% | 1.313% |
| 64 | 14.077 | 1361 | 1363 | 1366 | rVV | 536085 | 856780 | 38.72% | 3.532% |
| 65 | 14.146 | 1366 | 1370 | 1374 | rVV3 | 116341 | 260525 | 11.77% | 1.074% |
| 66 | 14.215 | 1374 | 1377 | 1382 | rVB | 122750 | 197602 | 8.93% | 0.815% |
| 67 | 14.304 | 1383 | 1386 | 1389 | rBV4 | 26417 | 56777 | 2.57% | 0.234% |
| 68 | 14.354 | 1389 | 1391 | 1394 | rVB3 | 32025 | 49166 | 2.22% | 0.203% |
| 69 | 14.452 | 1394 | 1401 | 1407 | rBV | 1307862 | 2212549 | 100.00% | 9.122% |
| 70 | 14.580 | 1412 | 1414 | 1417 | rVB3 | 22182 | 38404 | 1.74% | 0.158% |
| 71 | 14.679 | 1422 | 1424 | 1427 | rBV2 | 44862 | 65152 | 2.94% | 0.269% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.728 | 1427 | 1429 | 1434 | rVB | 71429 | 123399 | 5.58% | 0.509% |
| 73 | 14.906 | 1445 | 1447 | 1454 | rVB3 | 49367 | 90750 | 4.10% | 0.374% |
| 74 | 15.113 | 1464 | 1468 | 1471 | rVV5 | 16332 | 52261 | 2.36% | 0.215% |
| 75 | 15.162 | 1471 | 1473 | 1477 | rVV4 | 24313 | 59008 | 2.67% | 0.243% |
| 76 | 15.281 | 1480 | 1485 | 1492 | rVV | 112462 | 236978 | 10.71% | 0.977% |
| 77 | 15.399 | 1494 | 1497 | 1506 | rVB | 85478 | 169676 | 7.67% | 0.700% |
| 78 | 15.991 | 1553 | 1557 | 1561 | rVB2 | 14273 | 31440 | 1.42% | 0.130% |

Sum of corrected areas: 24254409

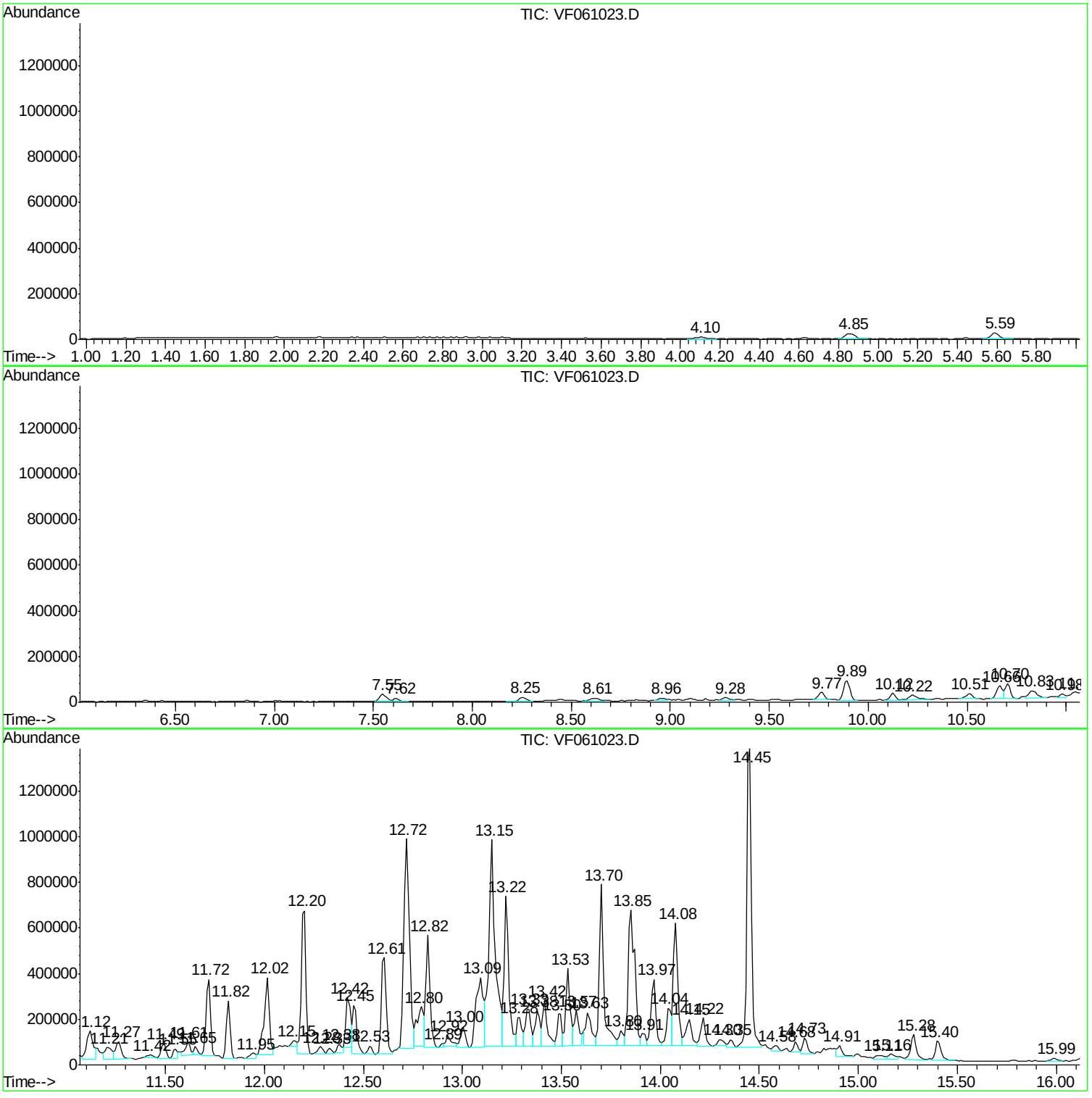
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_F
**ClientSampleId :**
TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

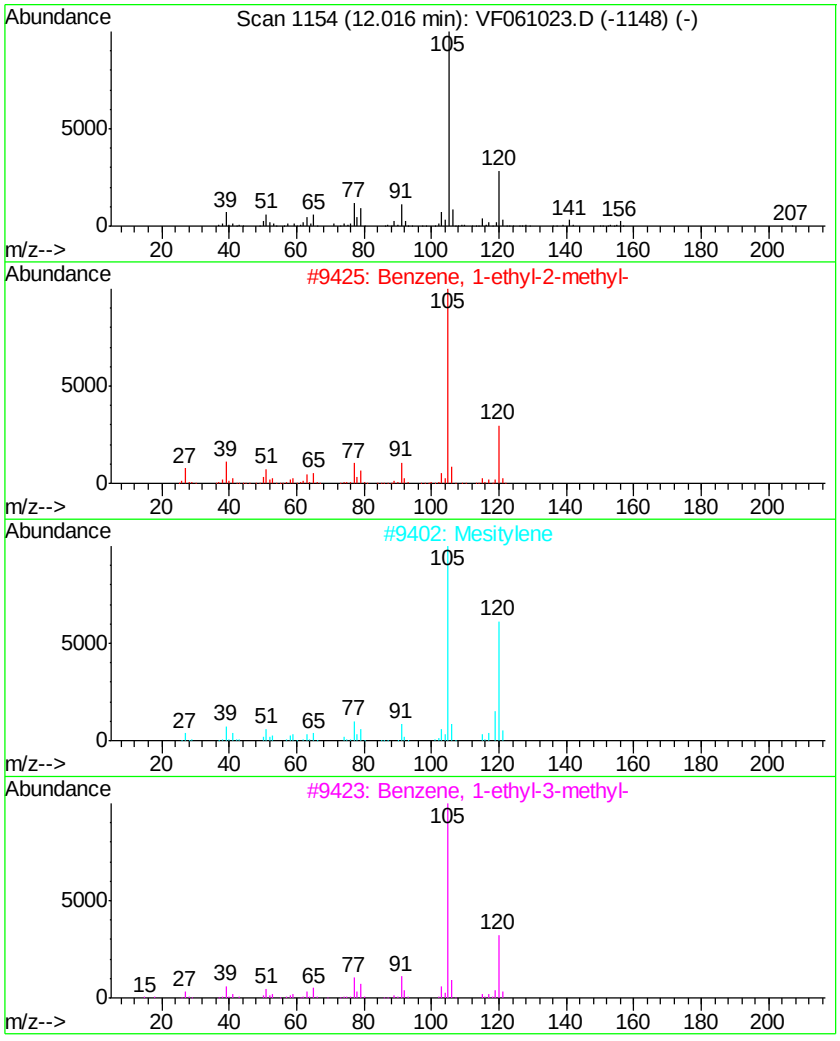
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

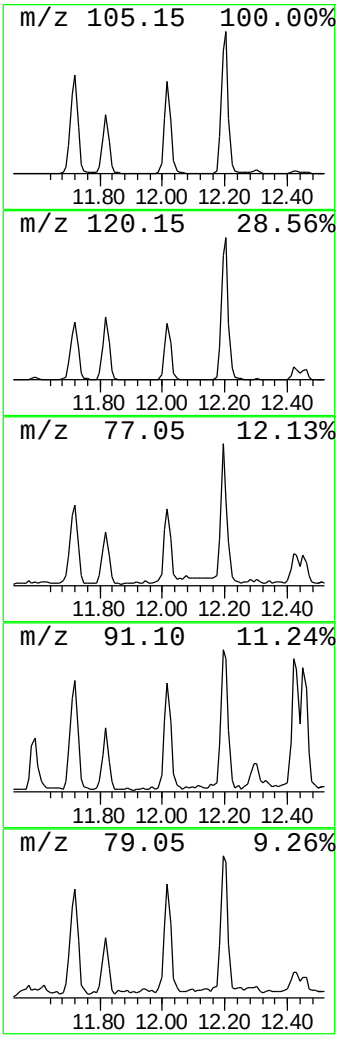
**********

Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.02 | 651.26 ug/l | 652001 | 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 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

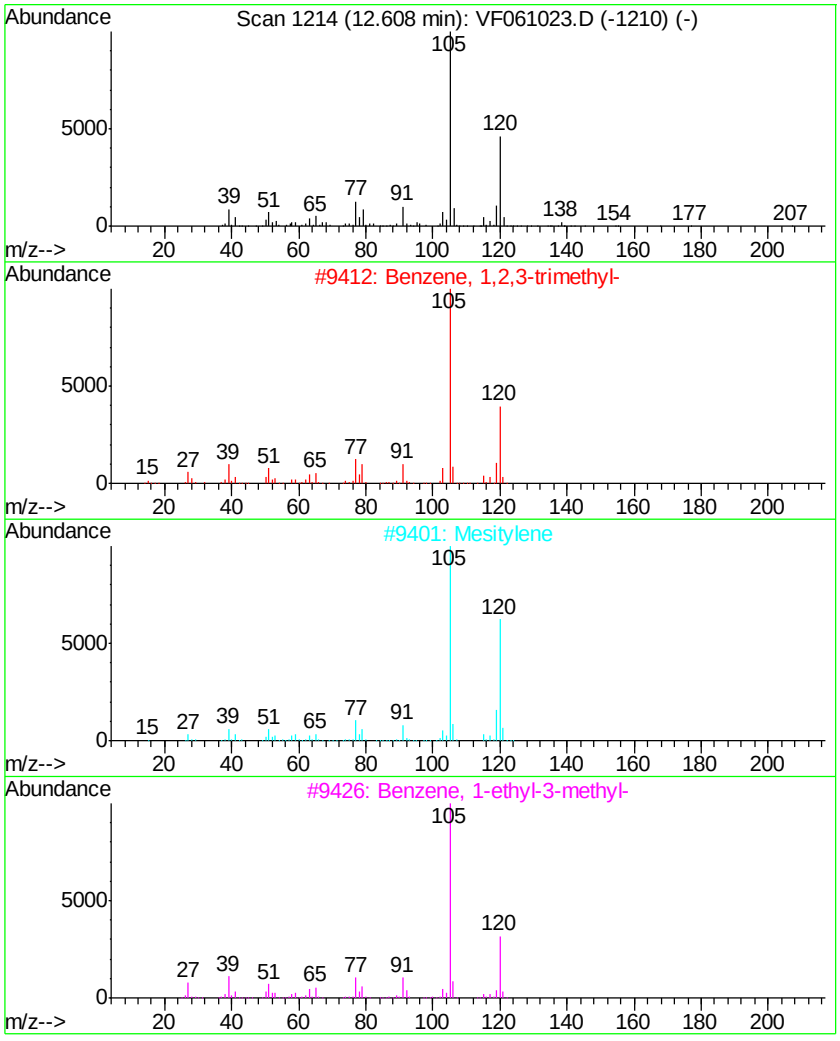
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

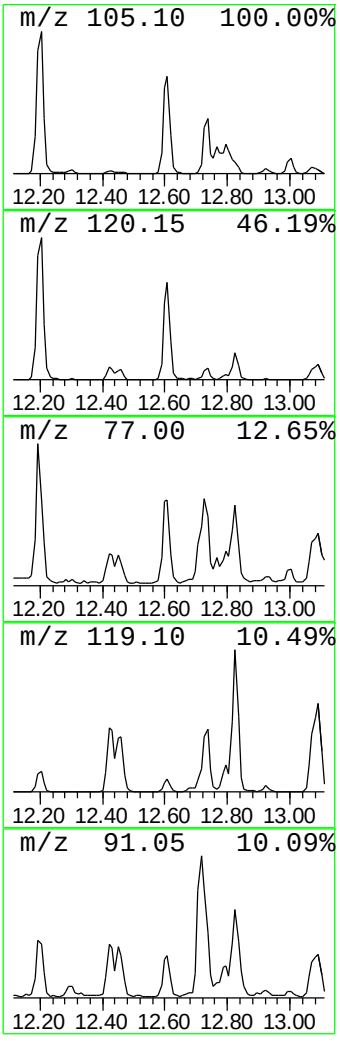
**********

Peak Number 2 Benzene, 1,2,3-trimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.61 | 691.25 ug/l | 692036 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 5 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 90 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

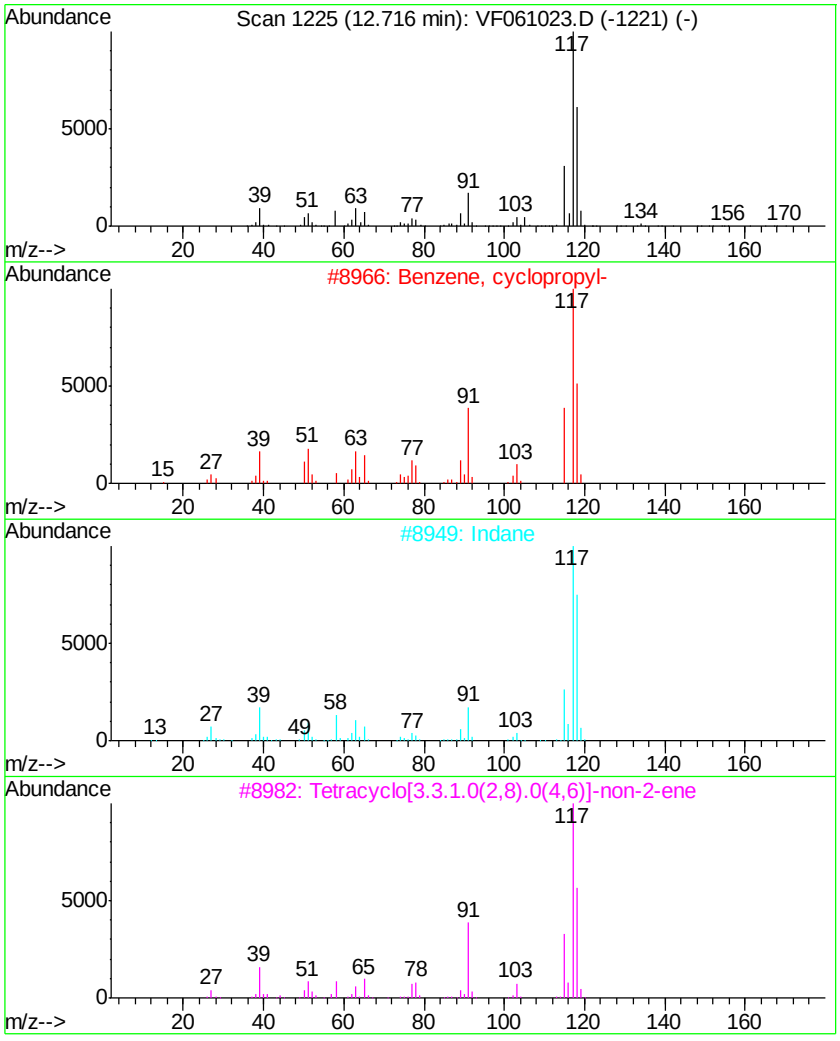
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

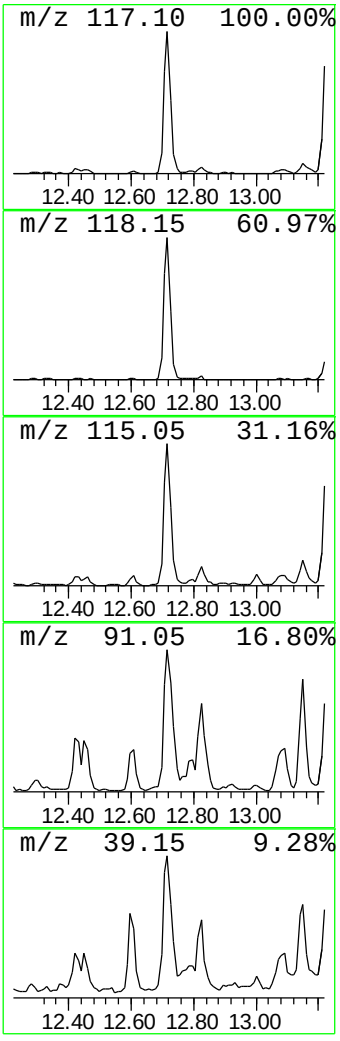
**********

Peak Number 3 Benzene, cyclopropyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.72 | 1809.12 ug/l | 1811180 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 94 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 3 | Tetracyclo[3.3.1.0(2,8).0(4,6)]-... | 118 | C9H10 | 1000191-13-7 | 83 |
| 4 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 81 |
| 5 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 81 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

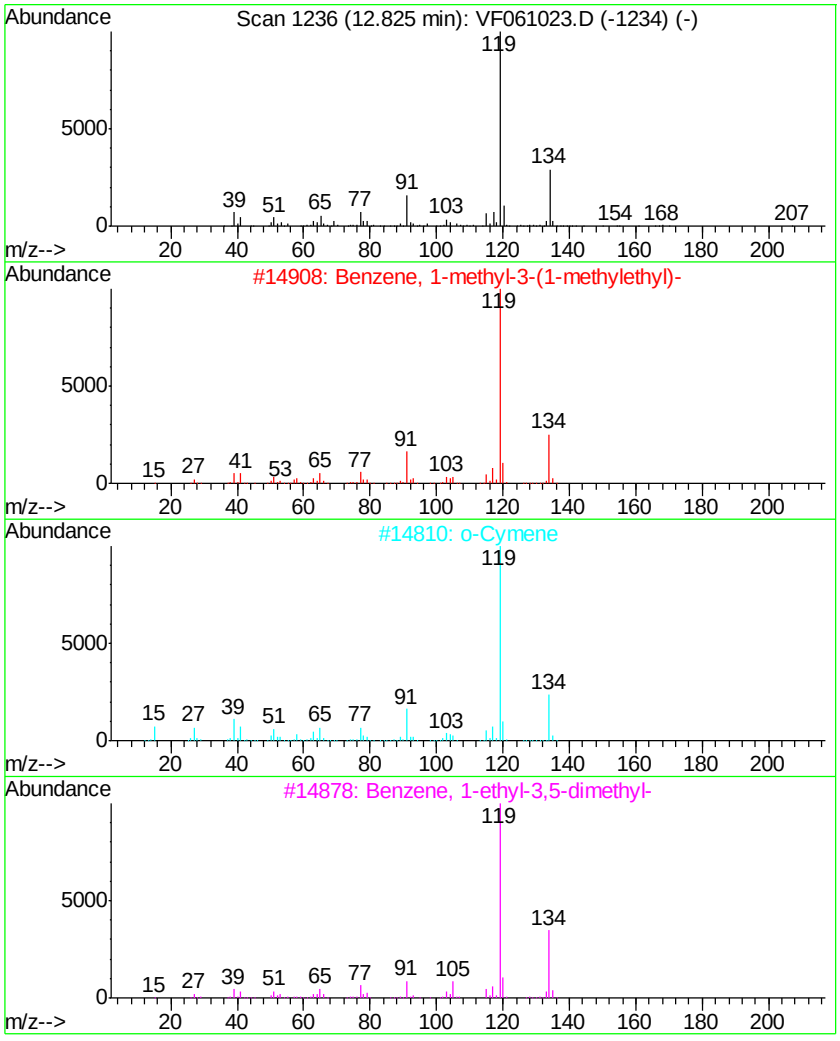
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

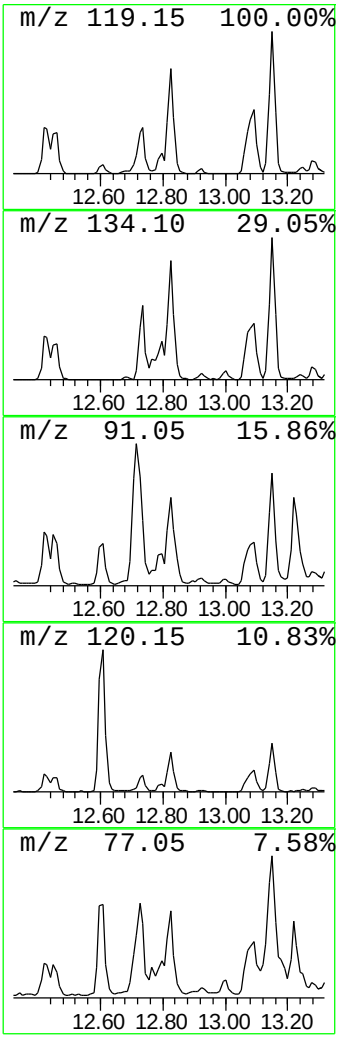
**********

Peak Number 4 Benzene, 1-methyl-3-(1-meth... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.82 | 722.01 ug/l | 722829 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 91 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

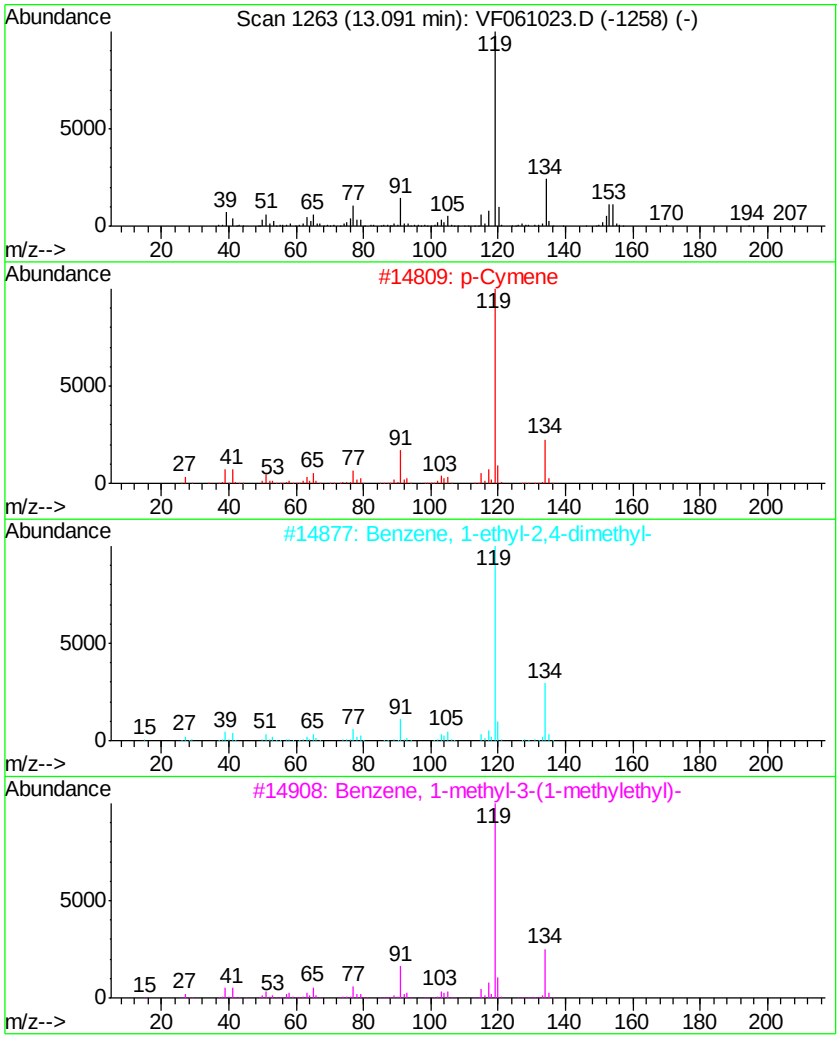
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

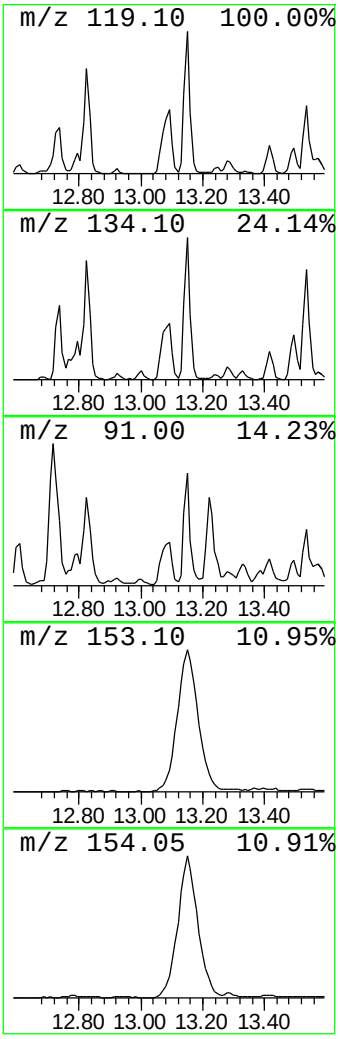
**********

Peak Number 5 p-Cymene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.09 | 784.72 ug/l | 785619 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | p-Cymene | 134 | C10H14 | 000099-87-6 | 93 |
| 2 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 93 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 93 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 87 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 87 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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

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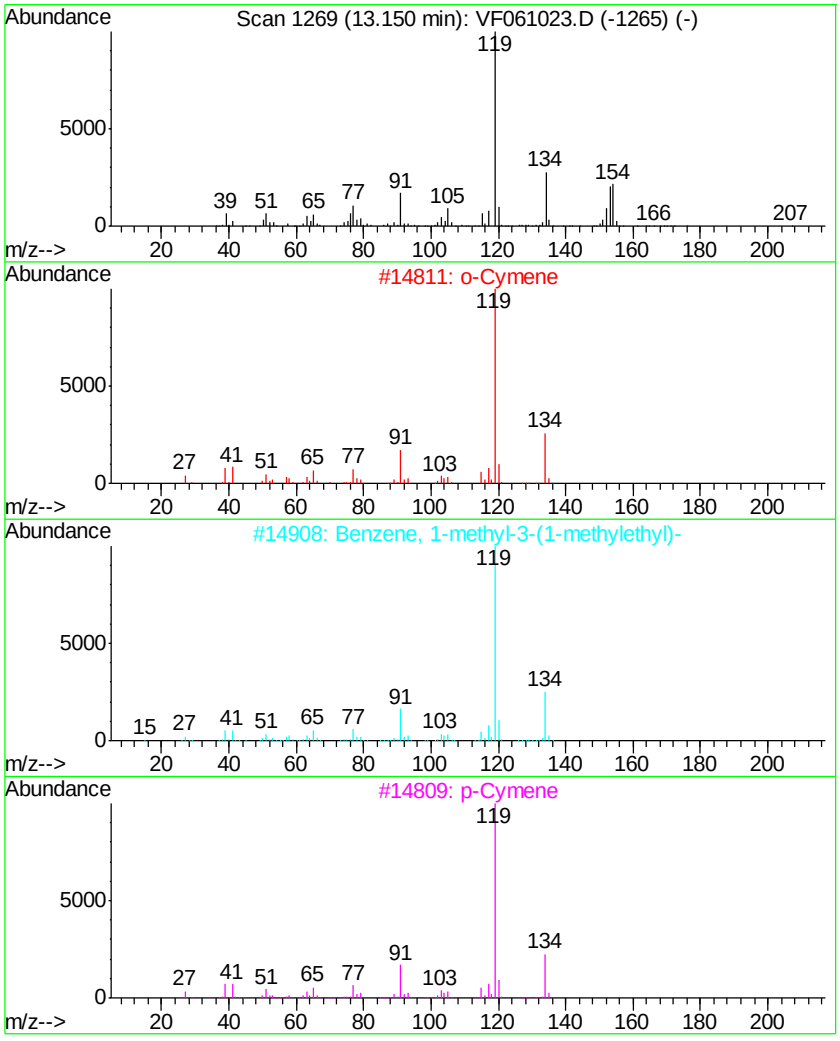
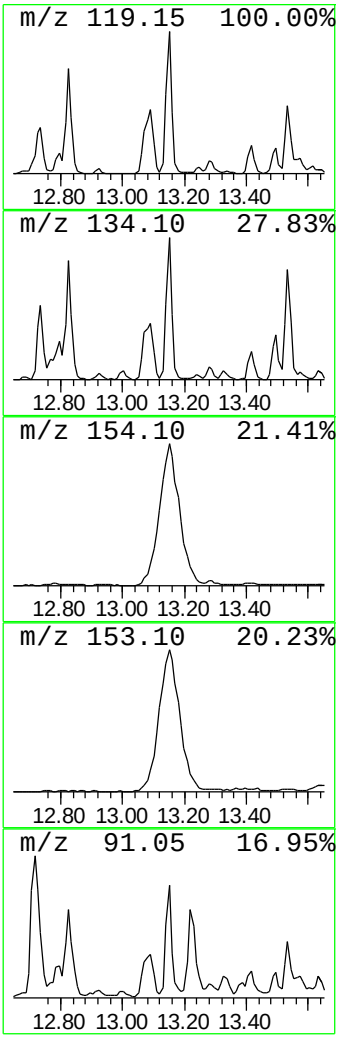
Peak Number 6 o-Cymene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.15 | 2077.92 ug/l | 2080280 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 92 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 91 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 86 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 70 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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

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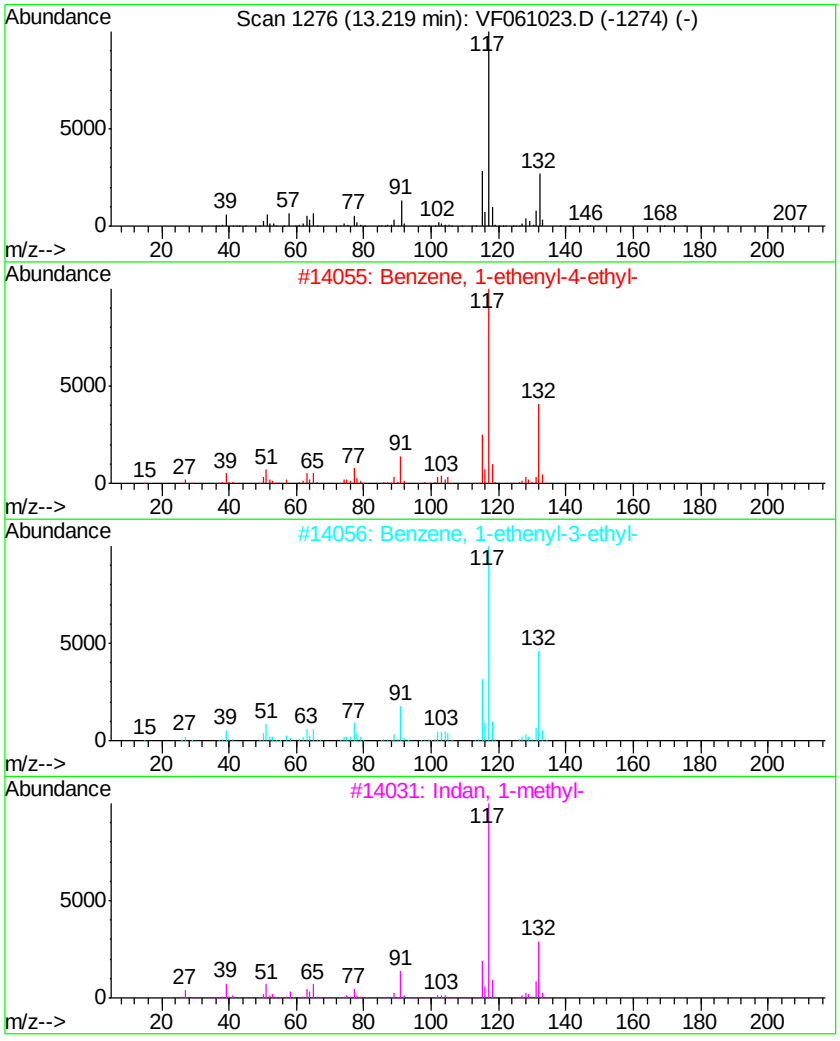
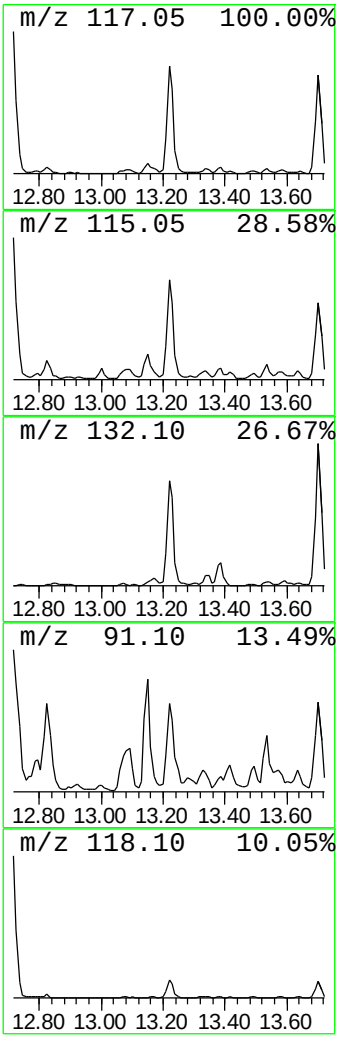
Peak Number 7 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.22 | 1110.32 ug/l | 1111580 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 91 |
| 2 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 91 |
| 3 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 4 | 1H-Indene, 2,3-dihydro-2-methyl- | 132 | C10H12 | 000824-63-5 | 87 |
| 5 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 87 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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

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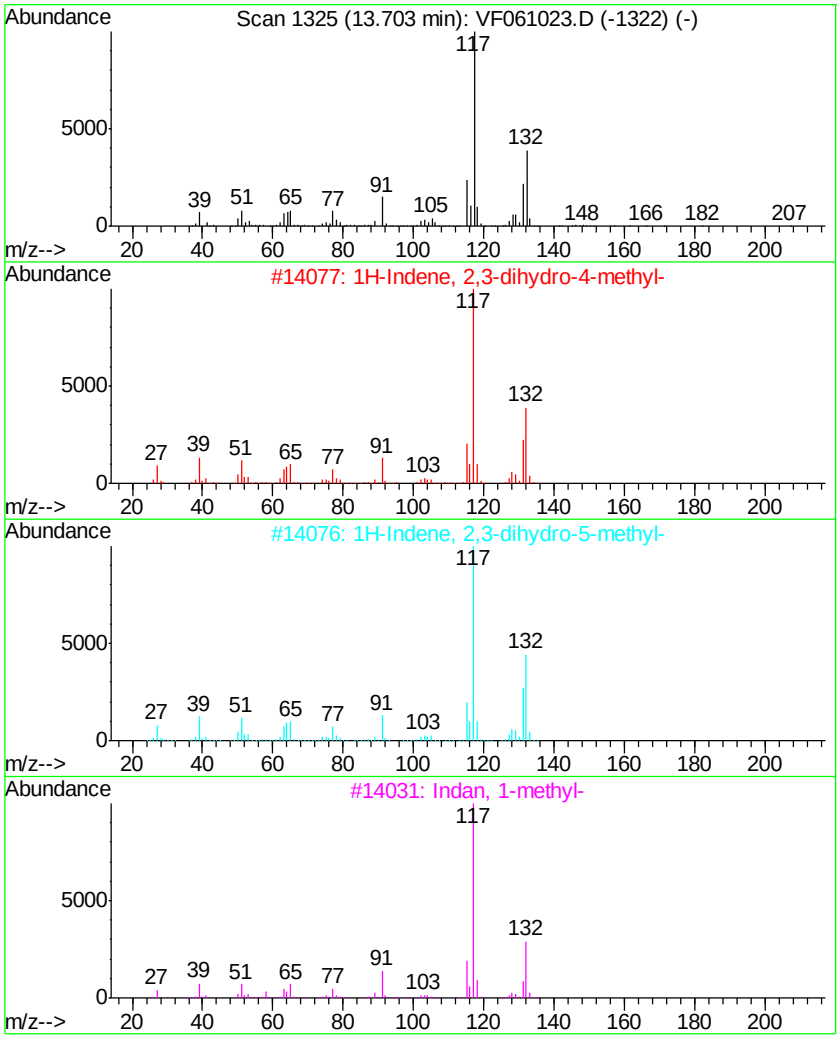
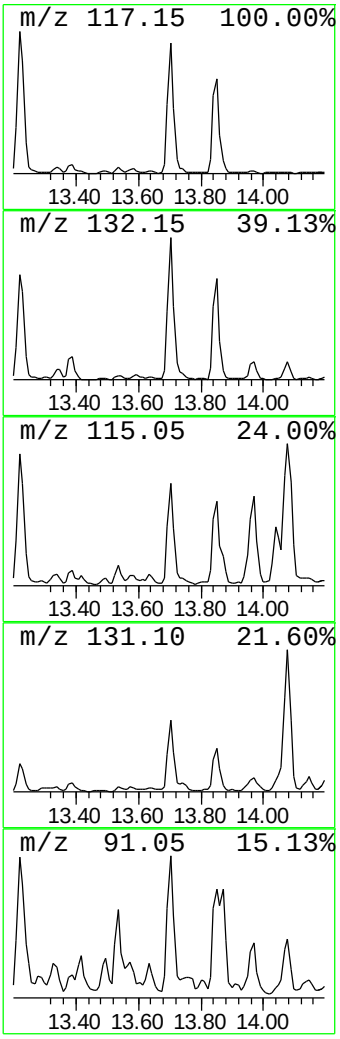
Peak Number 8 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.70 | 1173.07 ug/l | 1174410 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 95 |
| 3 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 90 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 87 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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

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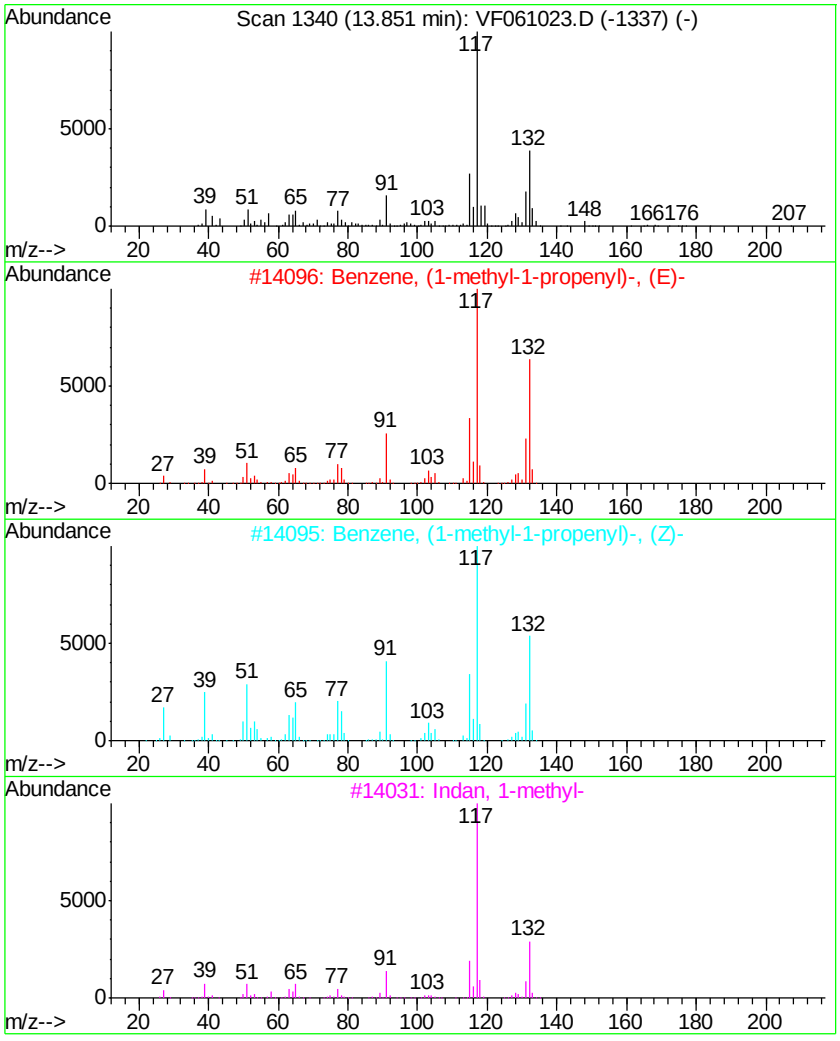
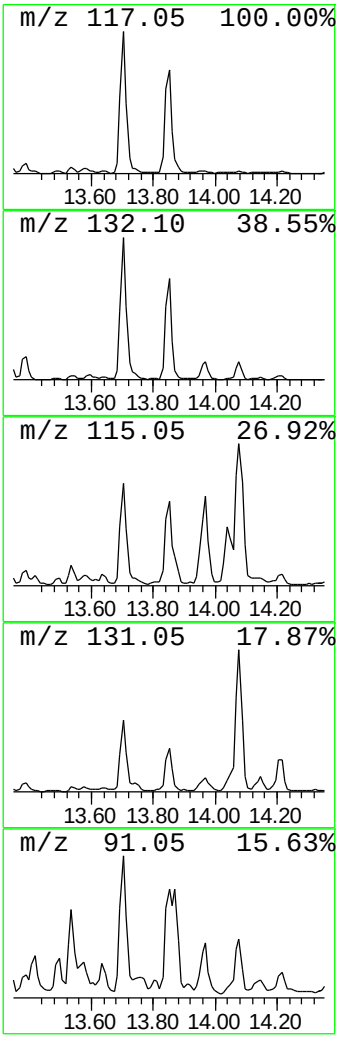
Peak Number 9 Benzene, (1-methyl-1-propen... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.85 | 1412.06 ug/l | 1413670 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 90 |
| 2 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 87 |
| 3 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 87 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 87 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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

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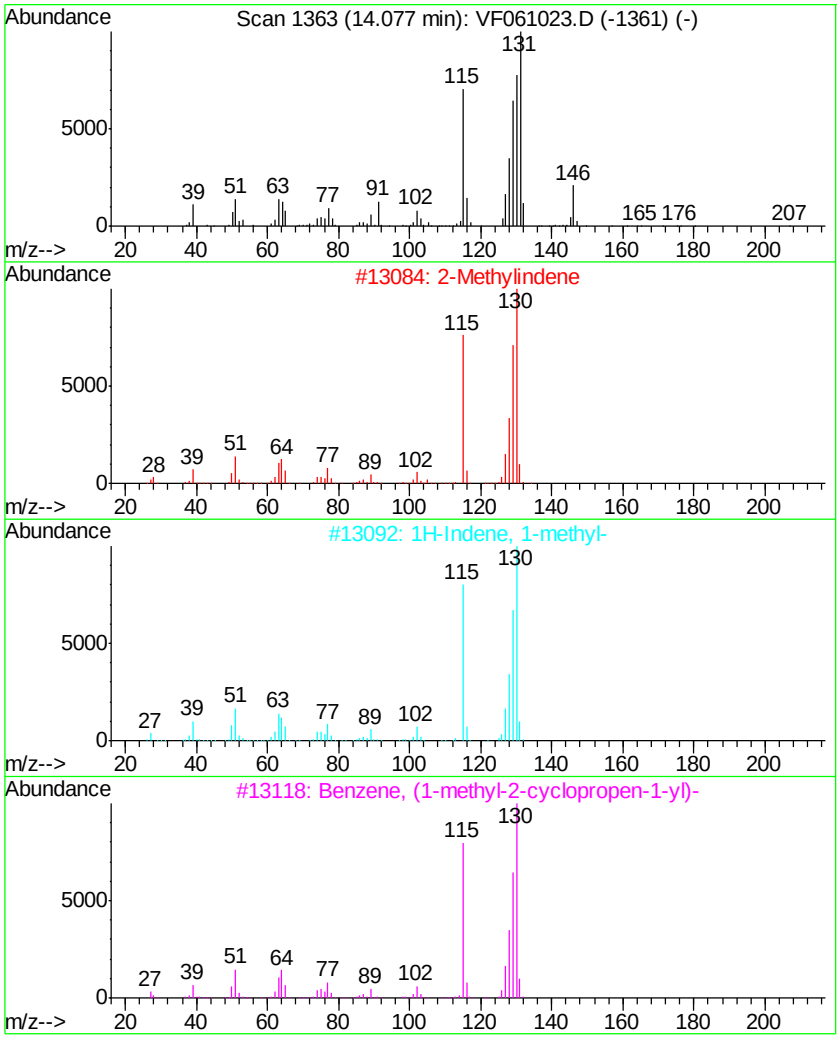
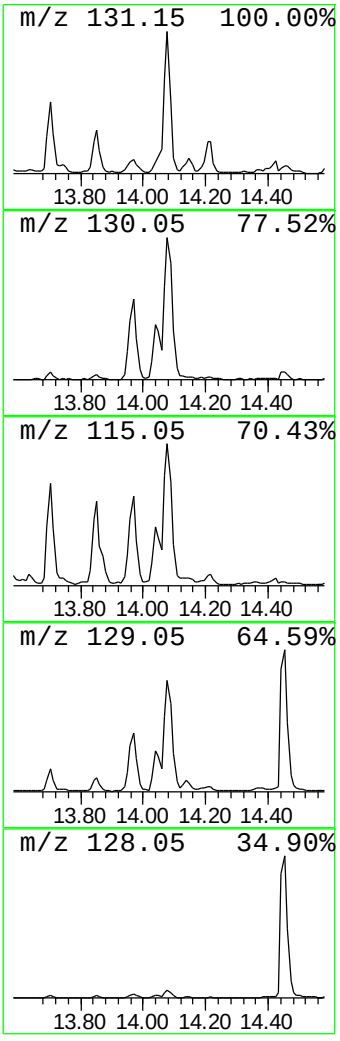
Peak Number 10 2-Methylindene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.08 | 855.80 ug/l | 856780 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 91 |
| 2 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 91 |
| 3 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 90 |
| 4 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 90 |
| 5 | Naphthalene, 1,2-dihydro- | 130 | C10H10 | 000447-53-0 | 78 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF121418\
Data File : VF061023.D
Acq On : 14 Dec 2018 16:41
Operator : VA/AP
Sample : J6403-21
Misc : 5.31g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** MSVOA_F
**ClientSampleId :** TP-3-B

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Benzene, 1-ethyl-... | 12.02 | 651.3 | ug/l | 652001 | 4 | 12.54 | 50057 | 50.0 |
| Benzene, 1,2,3-tr... | 12.61 | 691.3 | ug/l | 692036 | 4 | 12.54 | 50057 | 50.0 |
| Benzene, cyclopro... | 12.72 | 1809.1 | ug/l | 1811180 | 4 | 12.54 | 50057 | 50.0 |
| Benzene, 1-methyl... | 12.82 | 722.0 | ug/l | 722829 | 4 | 12.54 | 50057 | 50.0 |
| p-Cymene | 13.09 | 784.7 | ug/l | 785619 | 4 | 12.54 | 50057 | 50.0 |
| o-Cymene | 13.15 | 2077.9 | ug/l | 2080280 | 4 | 12.54 | 50057 | 50.0 |
| Benzene, 1-etheny... | 13.22 | 1110.3 | ug/l | 1111580 | 4 | 12.54 | 50057 | 50.0 |
| 1H-Indene, 2,3-di... | 13.70 | 1173.1 | ug/l | 1174410 | 4 | 12.54 | 50057 | 50.0 |
| Benzene, (1-methy... | 13.85 | 1412.1 | ug/l | 1413670 | 4 | 12.54 | 50057 | 50.0 |
| 2-Methylindene | 14.08 | 855.8 | ug/l | 856780 | 4 | 12.54 | 50057 | 50.0 |