

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
 Data File : VF062713.D  
 Acq On : 22 May 2019 18:42  
 Operator : FY/SY  
 Sample : K3002-05  
 Misc : 5.05g/5mL/MSVOA F/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 23-C3-20190399

## Integration Parameters: RTEINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

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

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.114       | 56            | 59          | 62           | rBV2     | 15989          | 39188         | 1.47%           | 0.175%        |
| 2         | 2.031       | 149           | 152         | 154          | rBV2     | 22235          | 27374         | 1.03%           | 0.122%        |
| 3         | 2.336       | 181           | 183         | 188          | rVB6     | 20783          | 39445         | 1.48%           | 0.176%        |
| 4         | 2.494       | 195           | 199         | 202          | rVB6     | 20193          | 45012         | 1.69%           | 0.201%        |
| 5         | 3.125       | 260           | 263         | 267          | rVB2     | 20502          | 50898         | 1.91%           | 0.227%        |
| 6         | 4.298       | 374           | 382         | 393          | rBV      | 448876         | 1407959       | 52.86%          | 6.283%        |
| 7         | 5.037       | 450           | 457         | 469          | rBV2     | 800234         | 2663697       | 100.00%         | 11.887%       |
| 8         | 5.757       | 524           | 530         | 541          | rBV      | 947553         | 2578724       | 96.81%          | 11.508%       |
| 9         | 7.620       | 715           | 719         | 721          | rBV2     | 16402          | 35601         | 1.34%           | 0.159%        |
| 10        | 7.699       | 721           | 727         | 733          | rVV      | 1115933        | 2547713       | 95.65%          | 11.369%       |
| 11        | 7.768       | 733           | 734         | 740          | rVB5     | 22924          | 32798         | 1.23%           | 0.146%        |
| 12        | 8.418       | 794           | 800         | 805          | rVB7     | 12592          | 37325         | 1.40%           | 0.167%        |
| 13        | 8.596       | 814           | 818         | 821          | rVB5     | 16456          | 42001         | 1.58%           | 0.187%        |
| 14        | 8.743       | 829           | 833         | 839          | rBV4     | 20567          | 65432         | 2.46%           | 0.292%        |
| 15        | 9.079       | 864           | 867         | 874          | rBV4     | 17068          | 49235         | 1.85%           | 0.220%        |
| 16        | 9.226       | 879           | 882         | 888          | rVB4     | 21575          | 61265         | 2.30%           | 0.273%        |
| 17        | 9.897       | 944           | 950         | 957          | rBV      | 989999         | 2239346       | 84.07%          | 9.993%        |
| 18        | 10.005      | 957           | 961         | 966          | rVV      | 76310          | 175200        | 6.58%           | 0.782%        |
| 19        | 10.242      | 981           | 985         | 991          | rVB2     | 35891          | 77963         | 2.93%           | 0.348%        |
| 20        | 10.340      | 991           | 995         | 1004         | rBV6     | 39430          | 145914        | 5.48%           | 0.651%        |
| 21        | 10.449      | 1004          | 1006        | 1012         | rVB5     | 16516          | 37923         | 1.42%           | 0.169%        |
| 22        | 10.577      | 1017          | 1019        | 1021         | rBV3     | 15098          | 30196         | 1.13%           | 0.135%        |
| 23        | 10.616      | 1021          | 1023        | 1027         | rVB4     | 30429          | 59312         | 2.23%           | 0.265%        |
| 24        | 10.764      | 1034          | 1038        | 1041         | rVV2     | 98205          | 230299        | 8.65%           | 1.028%        |
| 25        | 10.863      | 1045          | 1048        | 1050         | rVV4     | 27605          | 59430         | 2.23%           | 0.265%        |
| 26        | 10.912      | 1050          | 1053        | 1059         | rVV4     | 34645          | 102482        | 3.85%           | 0.457%        |
| 27        | 11.030      | 1062          | 1065        | 1069         | rVB5     | 16081          | 39344         | 1.48%           | 0.176%        |
| 28        | 11.129      | 1069          | 1075        | 1079         | rBV5     | 33087          | 118546        | 4.45%           | 0.529%        |
| 29        | 11.198      | 1079          | 1082        | 1083         | rVV3     | 52500          | 94744         | 3.56%           | 0.423%        |
| 30        | 11.227      | 1083          | 1085        | 1088         | rVV3     | 51436          | 76676         | 2.88%           | 0.342%        |
| 31        | 11.346      | 1091          | 1097        | 1100         | rVB2     | 150673         | 306762        | 11.52%          | 1.369%        |
| 32        | 11.484      | 1107          | 1111        | 1117         | rBV      | 730703         | 1264690       | 47.48%          | 5.644%        |
| 33        | 11.572      | 1117          | 1120        | 1122         | rVV4     | 34801          | 83741         | 3.14%           | 0.374%        |
| 34        | 11.622      | 1122          | 1125        | 1128         | rVV2     | 90349          | 178403        | 6.70%           | 0.796%        |

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 ALS Vial : 19 Sample Multiplier: 1

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 ClientSampleId :  
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Integrator: RTE  
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 Sampling : 1  
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 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

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

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 11.671 | 1128 | 1130 | 1132 | rVV3 | 33971  | 76156   | 2.86%  | 0.340% |
| 36 | 11.720 | 1132 | 1135 | 1139 | rVV2 | 380811 | 673640  | 25.29% | 3.006% |
| 37 | 11.770 | 1139 | 1140 | 1145 | rVV  | 67766  | 157499  | 5.91%  | 0.703% |
| 38 | 11.839 | 1145 | 1147 | 1149 | rVV2 | 33837  | 51706   | 1.94%  | 0.231% |
| 39 | 11.888 | 1149 | 1152 | 1155 | rVB  | 121427 | 173414  | 6.51%  | 0.774% |
| 40 | 11.937 | 1155 | 1157 | 1160 | rBV4 | 19010  | 32010   | 1.20%  | 0.143% |
| 41 | 12.006 | 1160 | 1164 | 1166 | rBV3 | 39260  | 93586   | 3.51%  | 0.418% |
| 42 | 12.046 | 1166 | 1168 | 1173 | rVV2 | 208857 | 377793  | 14.18% | 1.686% |
| 43 | 12.124 | 1173 | 1176 | 1178 | rVV4 | 17884  | 42370   | 1.59%  | 0.189% |
| 44 | 12.203 | 1181 | 1184 | 1186 | rVV3 | 43091  | 90216   | 3.39%  | 0.403% |
| 45 | 12.262 | 1186 | 1190 | 1193 | rVV  | 365266 | 622039  | 23.35% | 2.776% |
| 46 | 12.341 | 1193 | 1198 | 1200 | rVV4 | 34691  | 70836   | 2.66%  | 0.316% |
| 47 | 12.381 | 1200 | 1202 | 1204 | rVV2 | 24406  | 34114   | 1.28%  | 0.152% |
| 48 | 12.430 | 1204 | 1207 | 1209 | rVV2 | 61632  | 110841  | 4.16%  | 0.495% |
| 49 | 12.470 | 1209 | 1211 | 1213 | rVV3 | 58847  | 117213  | 4.40%  | 0.523% |
| 50 | 12.499 | 1213 | 1214 | 1216 | rVV2 | 68947  | 89916   | 3.38%  | 0.401% |
| 51 | 12.539 | 1216 | 1218 | 1220 | rVV2 | 35749  | 52509   | 1.97%  | 0.234% |
| 52 | 12.598 | 1220 | 1224 | 1228 | rVV  | 977256 | 1569080 | 58.91% | 7.002% |
| 53 | 12.657 | 1228 | 1230 | 1234 | rVV  | 288901 | 399440  | 15.00% | 1.783% |
| 54 | 12.785 | 1237 | 1243 | 1244 | rVV5 | 26698  | 81161   | 3.05%  | 0.362% |
| 55 | 12.815 | 1244 | 1246 | 1248 | rVV2 | 71687  | 133075  | 5.00%  | 0.594% |
| 56 | 12.854 | 1248 | 1250 | 1257 | rVB3 | 379052 | 721245  | 27.08% | 3.219% |
| 57 | 12.972 | 1260 | 1262 | 1265 | rBV3 | 30931  | 65779   | 2.47%  | 0.294% |
| 58 | 13.051 | 1267 | 1270 | 1273 | rVB2 | 49992  | 93097   | 3.50%  | 0.415% |
| 59 | 13.140 | 1273 | 1279 | 1282 | rBV4 | 54302  | 163466  | 6.14%  | 0.729% |
| 60 | 13.189 | 1282 | 1284 | 1286 | rBV  | 74084  | 89033   | 3.34%  | 0.397% |
| 61 | 13.327 | 1296 | 1298 | 1301 | rVV  | 57578  | 102519  | 3.85%  | 0.457% |
| 62 | 13.367 | 1301 | 1302 | 1305 | rVV3 | 28338  | 38235   | 1.44%  | 0.171% |
| 63 | 13.416 | 1305 | 1307 | 1309 | rVV2 | 38033  | 53737   | 2.02%  | 0.240% |
| 64 | 13.455 | 1309 | 1311 | 1315 | rVV2 | 40691  | 58586   | 2.20%  | 0.261% |
| 65 | 13.534 | 1315 | 1319 | 1321 | rVV  | 54934  | 74267   | 2.79%  | 0.331% |
| 66 | 13.574 | 1321 | 1323 | 1325 | rVV  | 97679  | 124180  | 4.66%  | 0.554% |
| 67 | 13.741 | 1337 | 1340 | 1343 | rVV2 | 78016  | 108302  | 4.07%  | 0.483% |
| 68 | 13.909 | 1352 | 1357 | 1359 | rBV2 | 99551  | 213413  | 8.01%  | 0.952% |
| 69 | 14.007 | 1364 | 1367 | 1370 | rVB  | 56239  | 88907   | 3.34%  | 0.397% |
| 70 | 14.185 | 1380 | 1385 | 1387 | rBV4 | 28504  | 61930   | 2.32%  | 0.276% |
| 71 | 14.244 | 1388 | 1391 | 1394 | rVB4 | 23414  | 40132   | 1.51%  | 0.179% |

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
23-C3-20190399

## Integration Parameters: RTEINT.P

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

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

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

|    |        |      |      |      |      |       |       |       |        |
|----|--------|------|------|------|------|-------|-------|-------|--------|
| 72 | 14.480 | 1412 | 1415 | 1418 | rBV2 | 31431 | 47205 | 1.77% | 0.211% |
| 73 | 14.766 | 1440 | 1444 | 1451 | rVB3 | 25403 | 42549 | 1.60% | 0.190% |
| 74 | 14.894 | 1451 | 1457 | 1462 | rBV9 | 9244  | 33242 | 1.25% | 0.148% |
| 75 | 15.013 | 1466 | 1469 | 1475 | rBV6 | 14624 | 34411 | 1.29% | 0.154% |
| 76 | 15.131 | 1478 | 1481 | 1484 | rBV5 | 16459 | 28053 | 1.05% | 0.125% |
| 77 | 15.299 | 1491 | 1498 | 1501 | rBV8 | 12872 | 33382 | 1.25% | 0.149% |

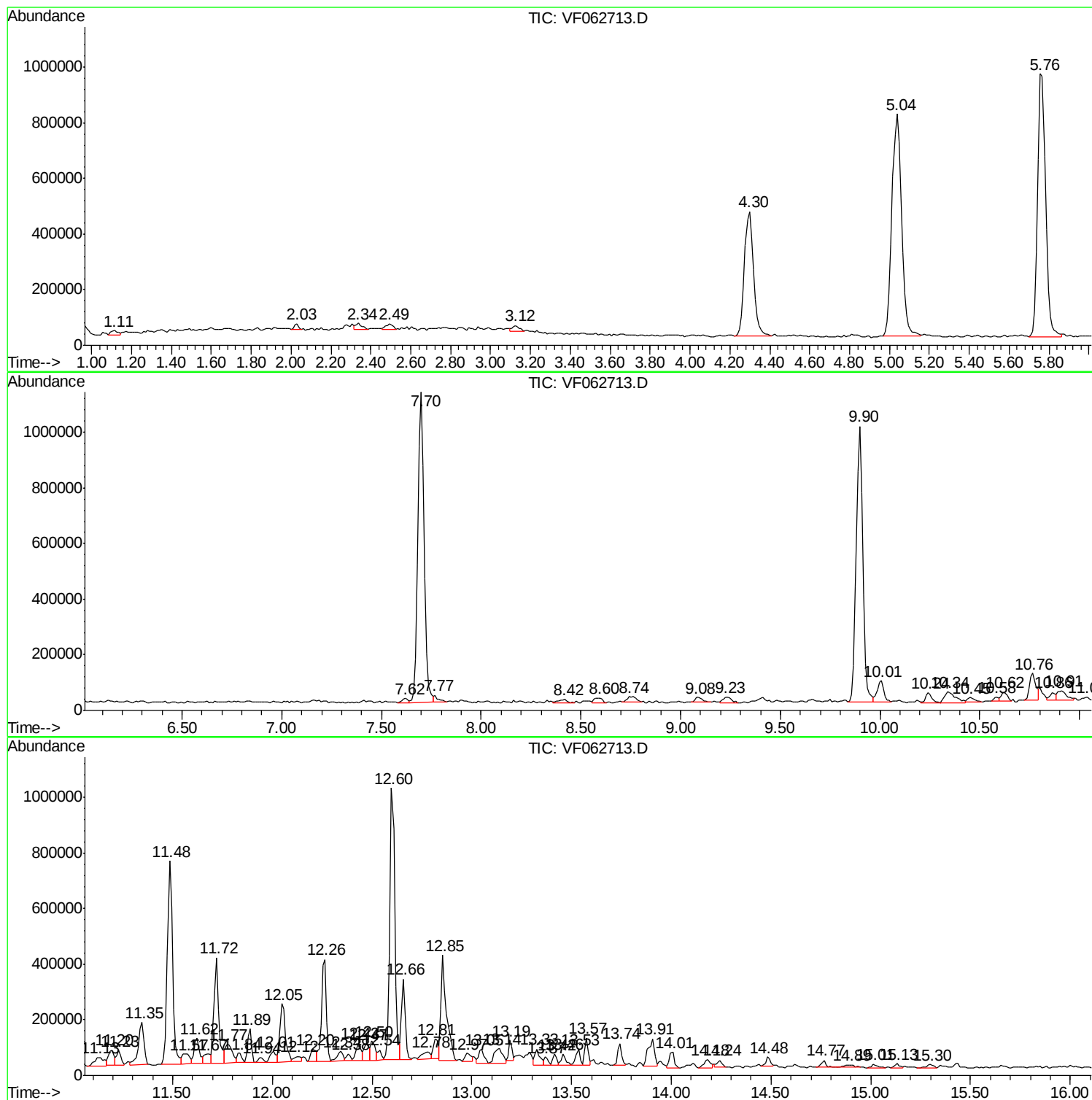
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Instrument :  
MSVOA\_F  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260

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



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

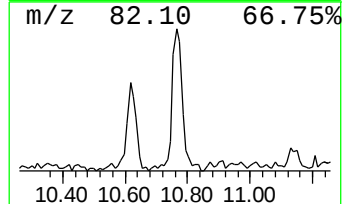
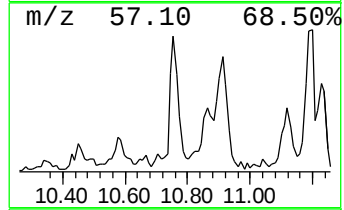
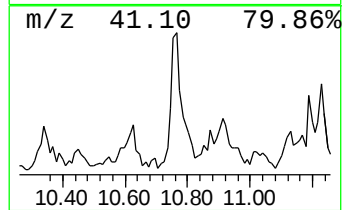
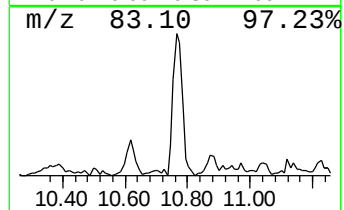
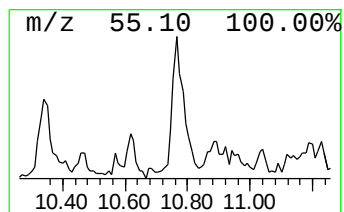
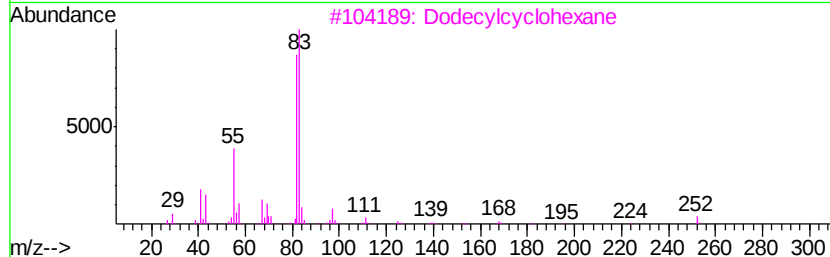
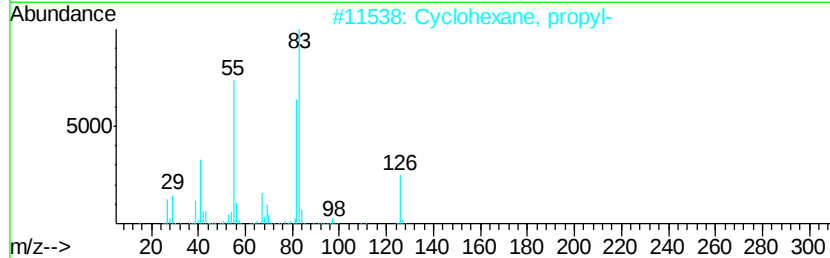
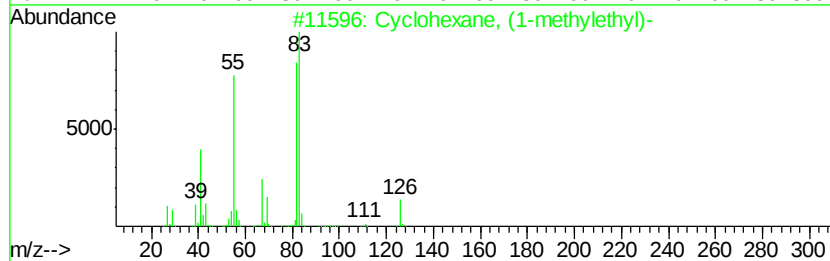
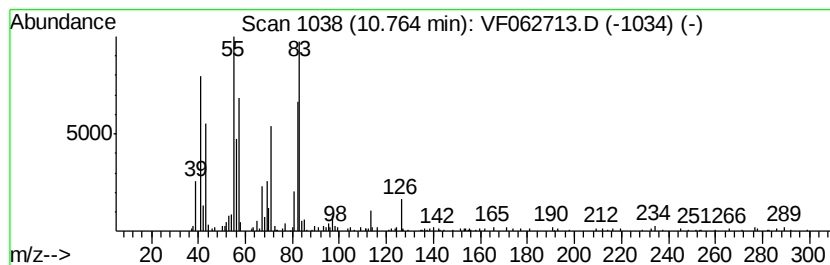
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Cyclohexane, (1-methylethyl)- Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T. |
|-------|-----------|--------|------------------|------|
| 10.76 | 5.14 ug/l | 230299 | Chlorobenzene-d5 | 9.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, (1-methylethyl)-       | 126 | C9H18   | 000696-29-7 | 58   |
| 2    |    | Cyclohexane, propyl-                | 126 | C9H18   | 001678-92-8 | 52   |
| 3    |    | Dodecylcyclohexane                  | 252 | C18H36  | 001795-17-1 | 47   |
| 4    |    | Cyclohexane, 1,1'-(1,3-propanedi... | 208 | C15H28  | 003178-24-3 | 43   |
| 5    |    | Cyclohexanone, 3,3,5,5-tetramethyl- | 154 | C10H18O | 014376-79-5 | 38   |



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

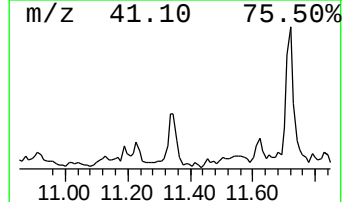
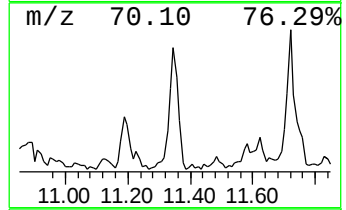
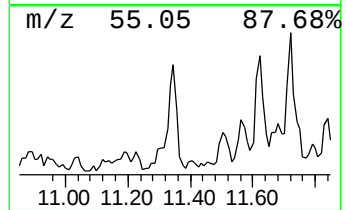
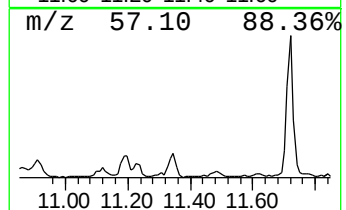
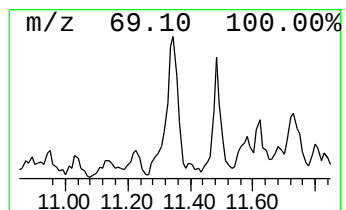
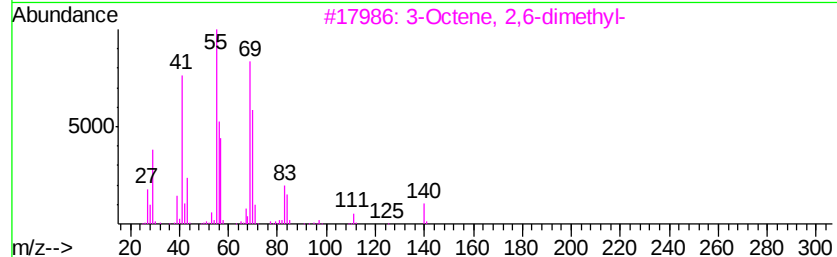
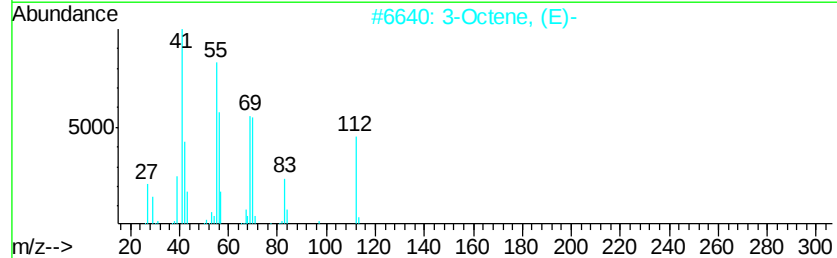
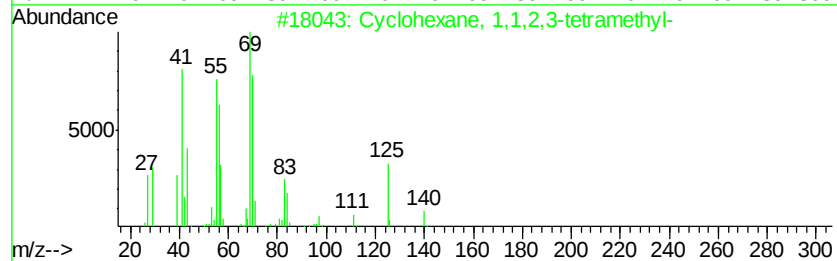
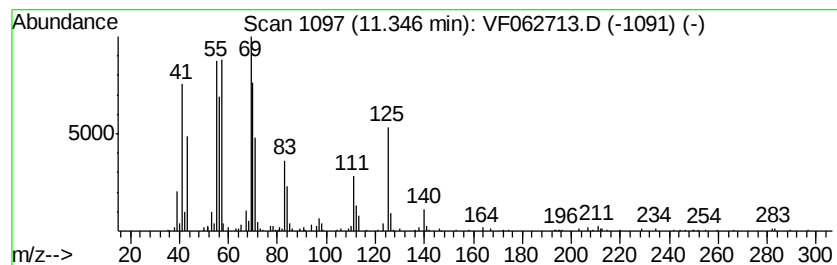
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Cyclohexane, 1,1,2,3-tetram... Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 11.35 | 9.78 ug/l | 306762 | 1,4-Dichlorobenzene-d4 | 12.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Cyclohexane, 1,1,2,3-tetramethyl-   | 140 | C10H20  | 006783-92-2 | 76   |
| 2    |    | 3-Octene, (E)-                      | 112 | C8H16   | 014919-01-8 | 52   |
| 3    |    | 3-Octene, 2,6-dimethyl-             | 140 | C10H20  | 006874-28-8 | 52   |
| 4    |    | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16   | 015890-40-1 | 38   |
| 5    |    | 4-Nonene, 5-methyl-                 | 140 | C10H20  | 015918-07-7 | 38   |



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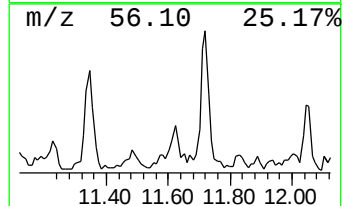
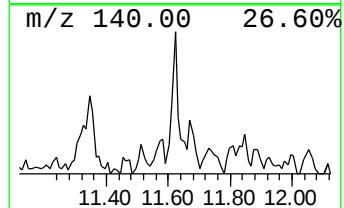
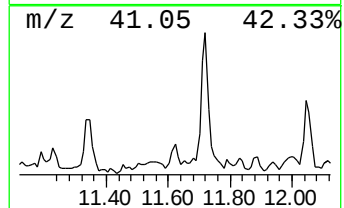
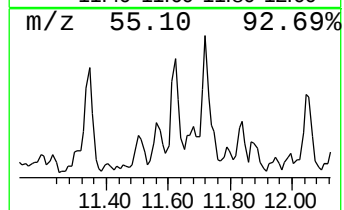
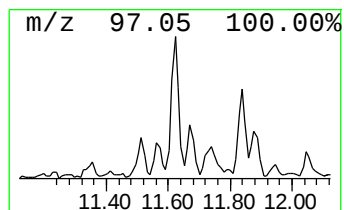
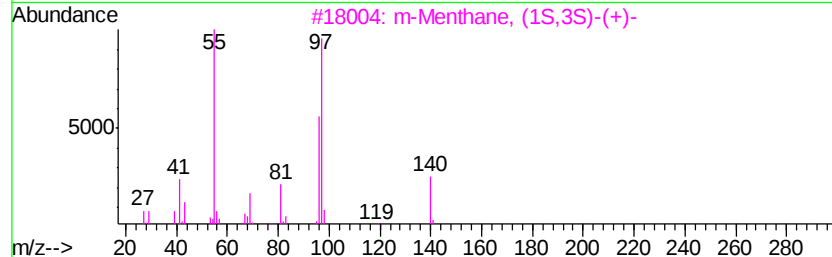
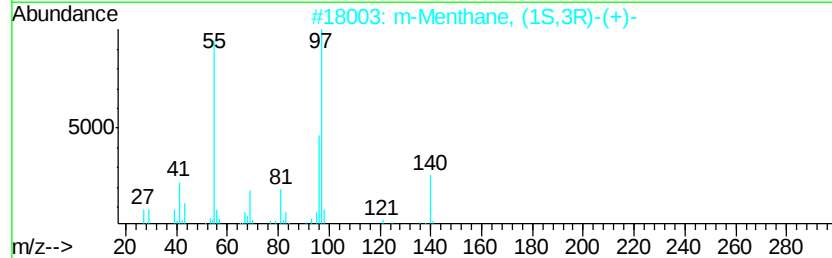
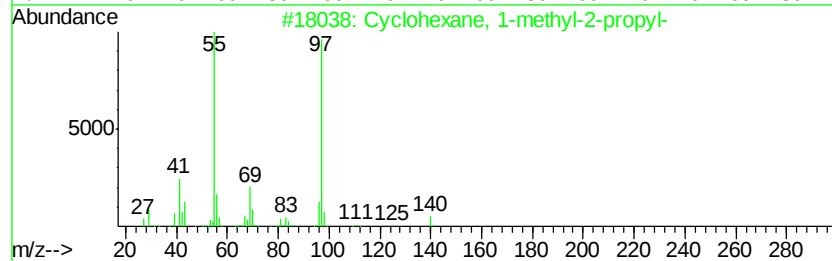
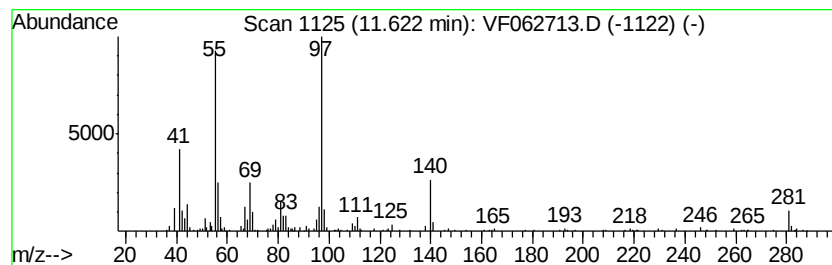
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MSVOA\_F  
ClientSampleId :  
23-C3-20190399

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

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

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Peak Number 3 Cyclohexane, 1-methyl-2-pro... Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|--------|------------------------|-------------|------|
| 11.62     | 5.68 ug/l                           | 178403 | 1,4-Dichlorobenzene-d4 | 12.60       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm                | CAS#        | Qual |
| 1         | Cvclohexane, 1-methyl-2-propyl-     | 140    | C10H20                 | 004291-79-6 | 80   |
| 2         | m-Menthane, (1S,3R)-(+)-            | 140    | C10H20                 | 013837-66-6 | 70   |
| 3         | m-Menthane, (1S,3S)-(+)-            | 140    | C10H20                 | 013837-67-7 | 64   |
| 4         | 1-Methyl-4-(1-methylethyl)-cvclo... | 140    | C10H20                 | 000099-82-1 | 59   |
| 5         | Cyclohexane, 1-methyl-4-(1-methy... | 140    | C10H20                 | 001678-82-6 | 59   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05g/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
23-C3-20190399

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

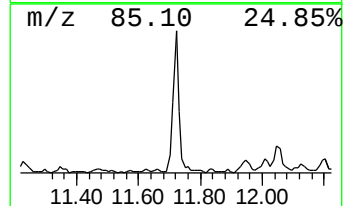
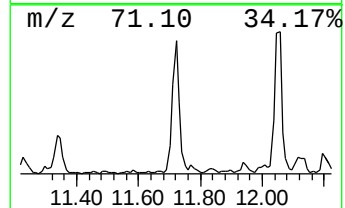
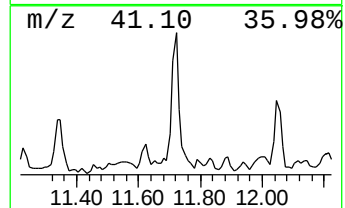
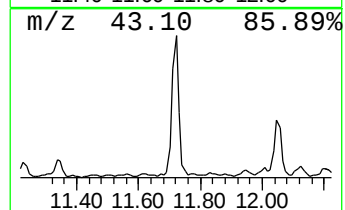
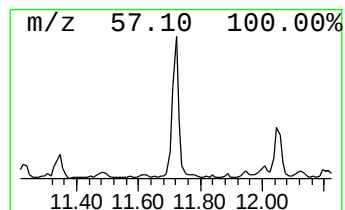
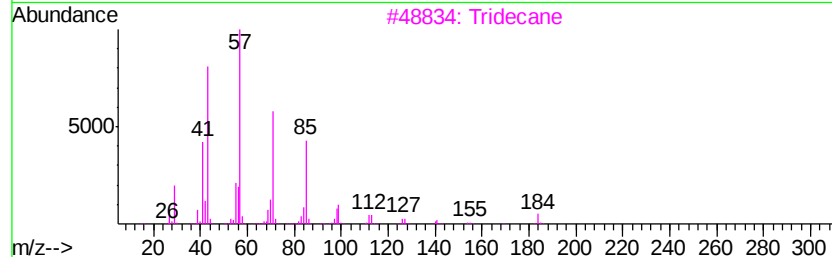
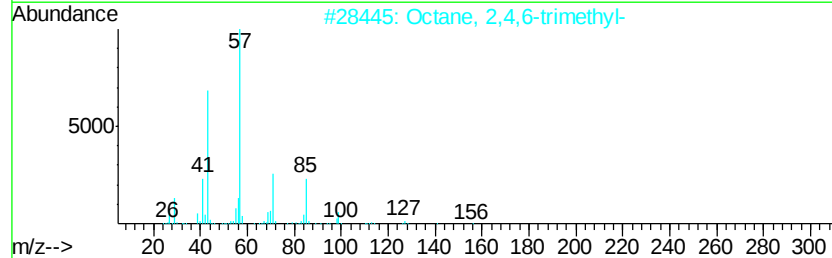
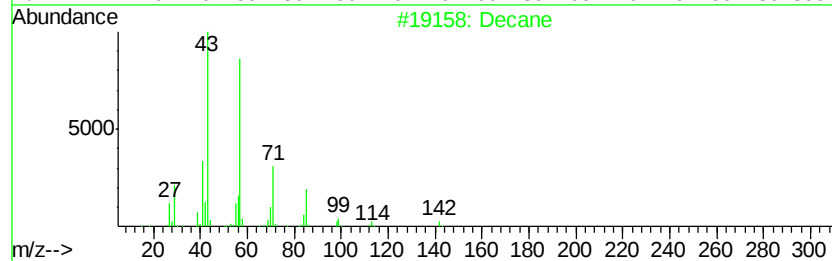
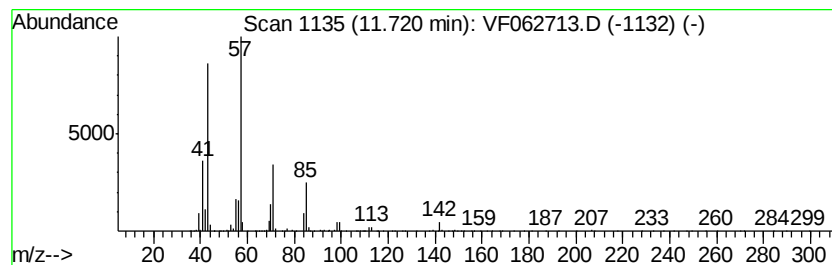
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Decane Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 11.72 | 21.47 ug/l | 673640 | 1,4-Dichlorobenzene-d4 | 12.60 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Decane                   | 142 | C10H22  | 000124-18-5 | 91   |
| 2    |    | Octane, 2,4,6-trimethyl- | 156 | C11H24  | 062016-37-9 | 86   |
| 3    |    | Tridecane                | 184 | C13H28  | 000629-50-5 | 78   |
| 4    |    | Decane, 2,3,6-trimethyl- | 184 | C13H28  | 062238-12-4 | 59   |
| 5    |    | Decane, 2,4-dimethyl-    | 170 | C12H26  | 002801-84-5 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05g/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
23-C3-20190399

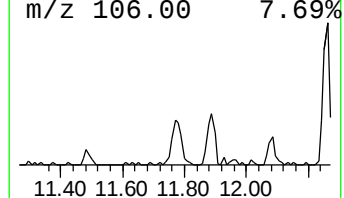
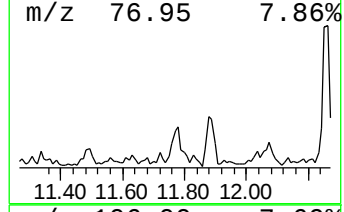
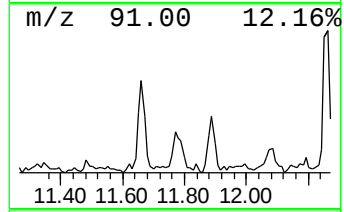
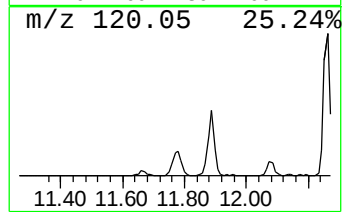
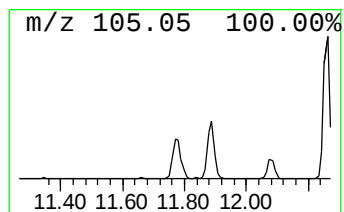
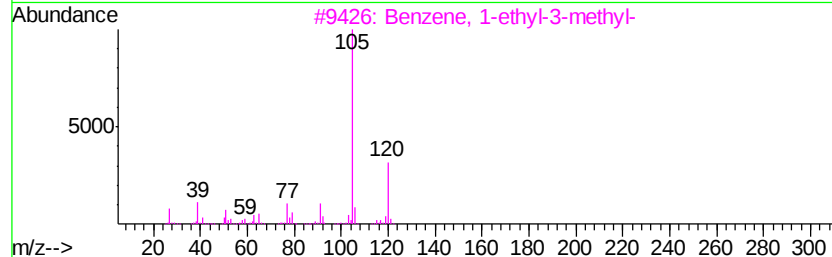
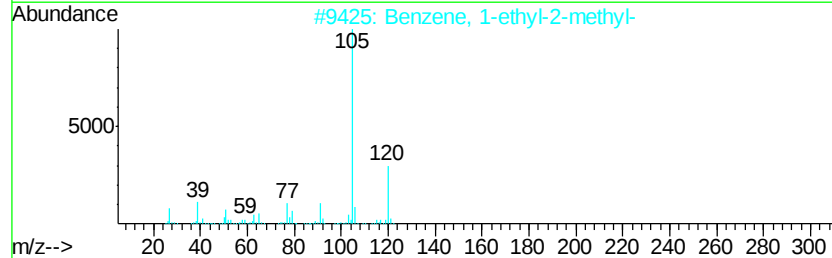
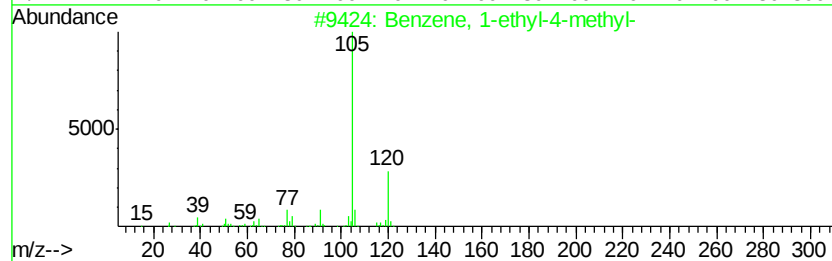
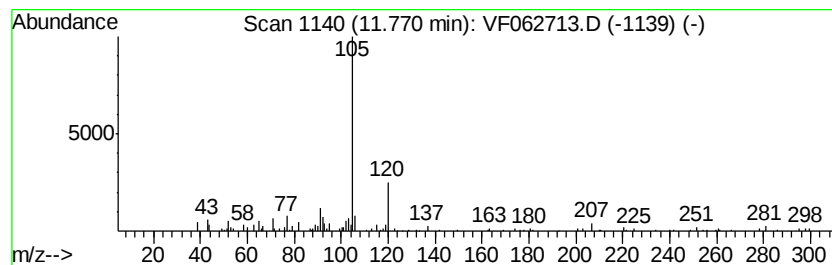
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Quant Title : SW846 8260

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

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Peak Number 5 Benzene, 1-ethyl-4-methyl- Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 11.77 | 5.02 ug/l | 157499 | 1,4-Dichlorobenzene-d4 | 12.60 |

| Hit# | of | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------|-----|----------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-4-methyl-    | 120 | C9H12    | 000622-96-8 | 52   |
| 2    |    | Benzene, 1-ethyl-2-methyl-    | 120 | C9H12    | 000611-14-3 | 52   |
| 3    |    | Benzene, 1-ethyl-3-methyl-    | 120 | C9H12    | 000620-14-4 | 52   |
| 4    |    | Benzene, (1-methylethyl)-     | 120 | C9H12    | 000098-82-8 | 52   |
| 5    |    | Trimethylsilyl methyl sulfide | 120 | C4H12SSi | 003908-55-2 | 50   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05g/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

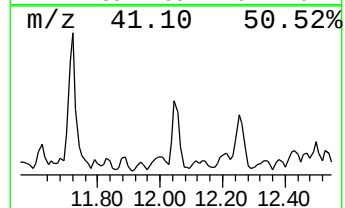
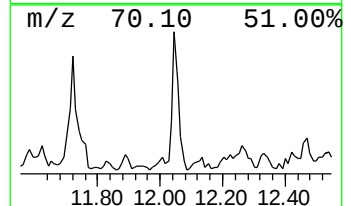
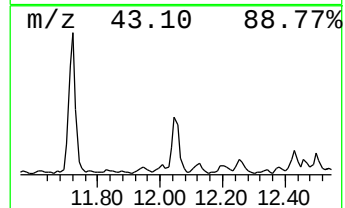
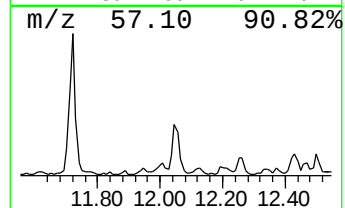
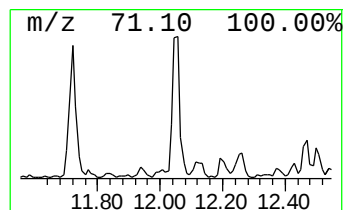
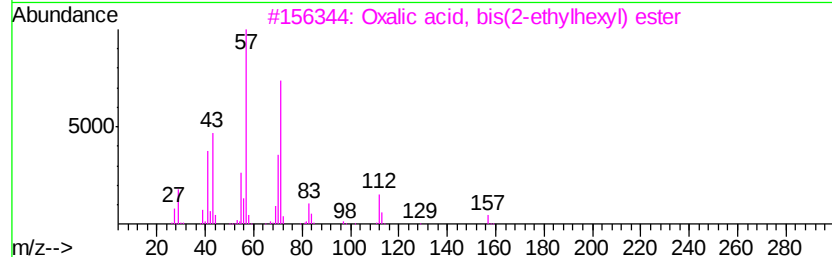
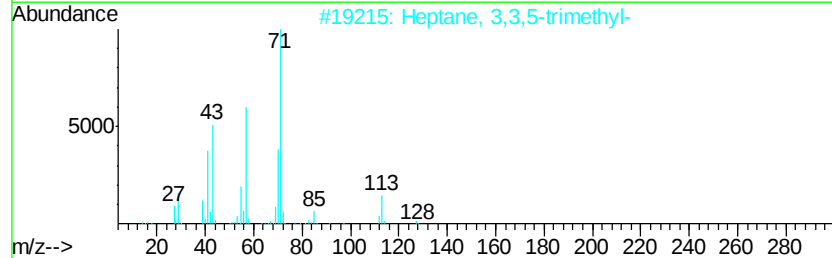
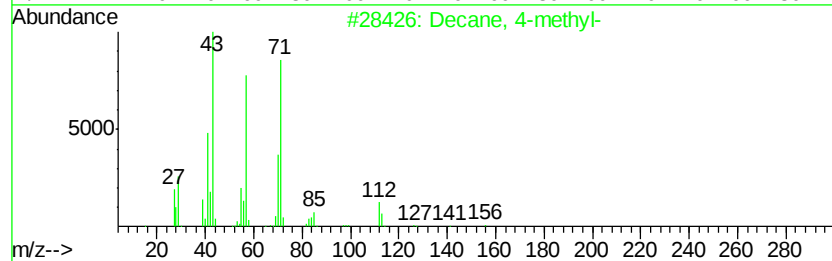
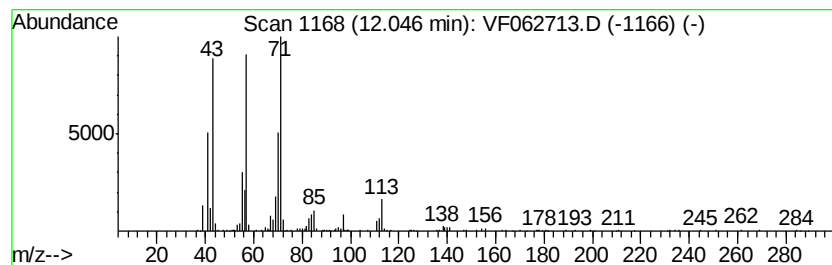
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ClientSampleId :  
23-C3-20190399

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

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

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Peak Number 6 Decane, 4-methyl- Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 12.05   | 12.04 ug/l                          | 377793       | 1,4-Dichlorobenzene-d4 | 12.60     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Decane, 4-methyl-                   | 156 C11H24   | 002847-72-5            | 90        |
| 2       | Heptane, 3,3,5-trimethyl-           | 142 C10H22   | 007154-80-5            | 72        |
| 3       | Oxalic acid, bis(2-ethylhexyl) e... | 314 C18H34O4 | 1000309-39-0           | 59        |
| 4       | 3-Bromooctane                       | 192 C8H17Br  | 000999-64-4            | 52        |
| 5       | 2,4,4-Trimethyl-1-hexene            | 126 C9H18    | 051174-12-0            | 52        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05g/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

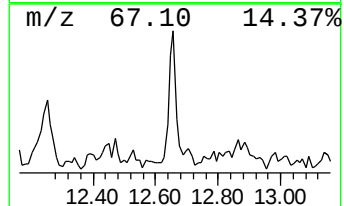
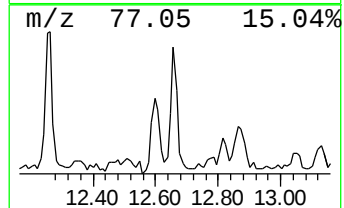
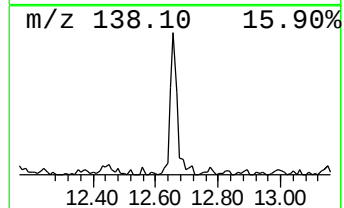
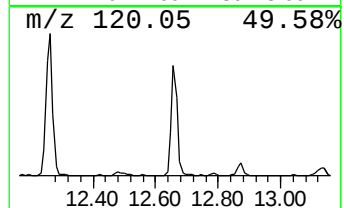
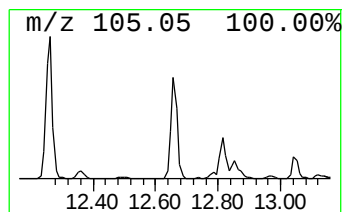
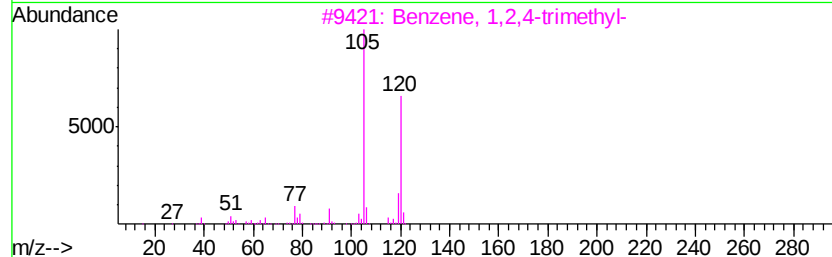
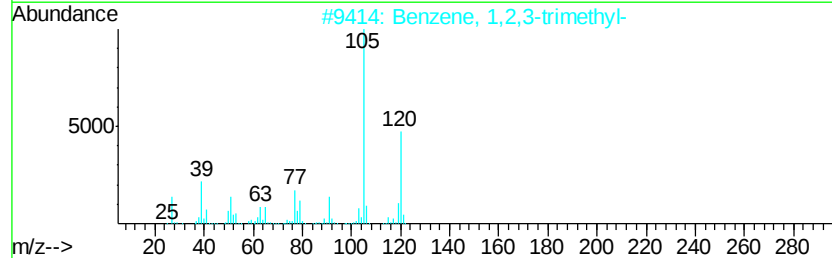
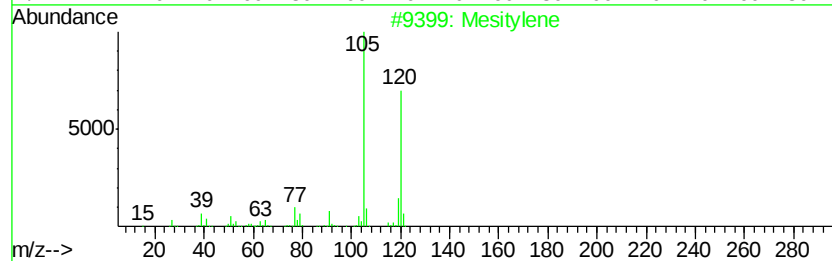
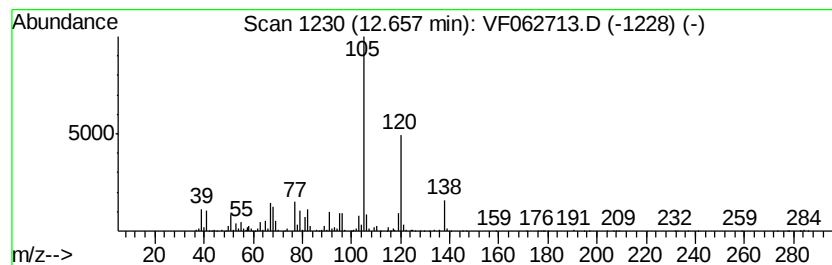
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ClientSampleId :  
23-C3-20190399

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

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

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Peak Number 7 Mesitylene Concentration Rank 3

| R.T.    | EstConc                    | Area         | Relative to ISTD       | R.T.      |
|---------|----------------------------|--------------|------------------------|-----------|
| 12.66   | 12.73 ug/l                 | 399440       | 1,4-Dichlorobenzene-d4 | 12.60     |
| Hit# of | 5                          | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Mesitylene                 | 120 C9H12    | 000108-67-8            | 76        |
| 2       | Benzene, 1,2,3-trimethyl-  | 120 C9H12    | 000526-73-8            | 76        |
| 3       | Benzene, 1,2,4-trimethyl-  | 120 C9H12    | 000095-63-6            | 76        |
| 4       | Benzene, 1-ethyl-3-methyl- | 120 C9H12    | 000620-14-4            | 62        |
| 5       | Benzene, 1-ethyl-4-methyl- | 120 C9H12    | 000622-96-8            | 58        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05g/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

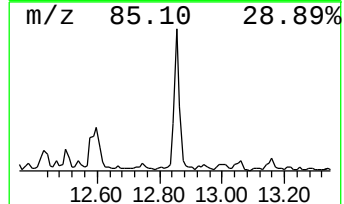
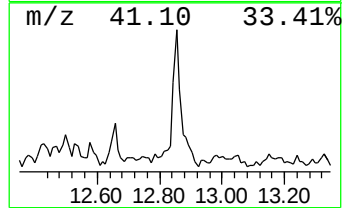
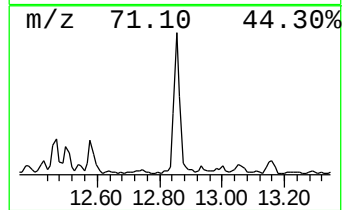
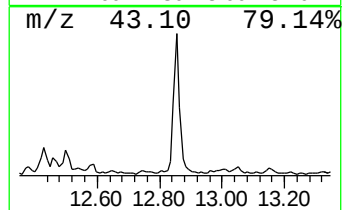
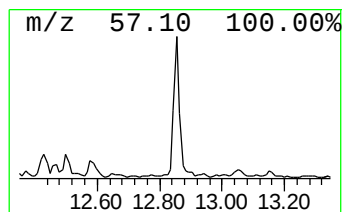
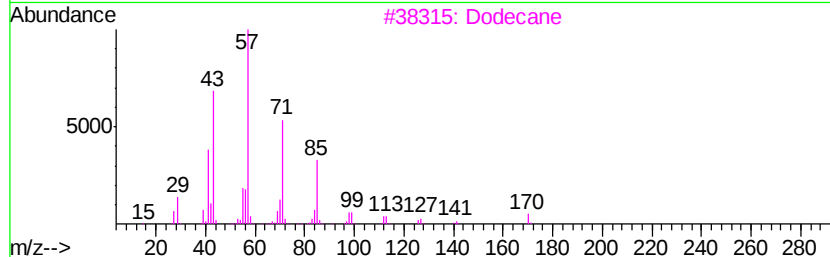
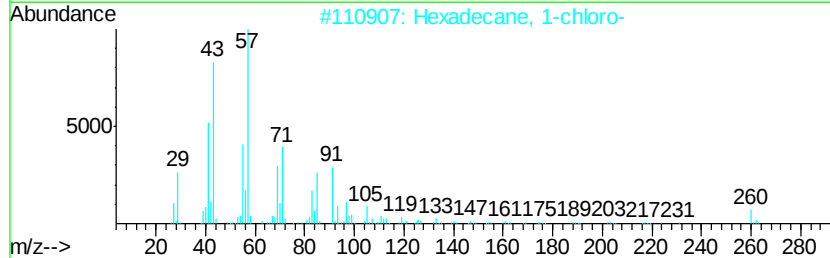
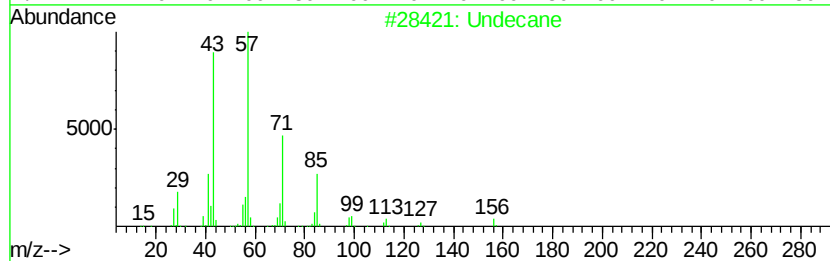
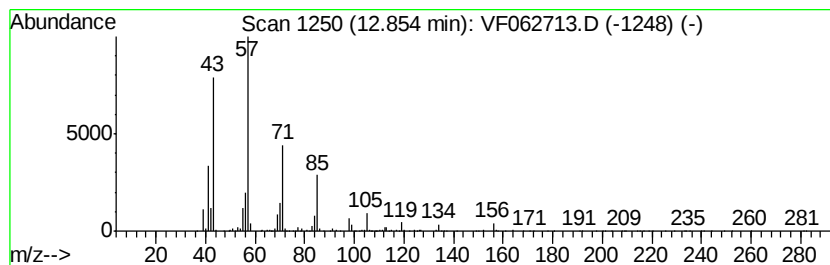
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23-C3-20190399

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

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

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Peak Number 8 Undecane Concentration Rank 1

| R.T.    | EstConc               | Area         | Relative to ISTD       | R.T.           |
|---------|-----------------------|--------------|------------------------|----------------|
| 12.85   | 22.98 ug/l            | 721245       | 1,4-Dichlorobenzene-d4 | 12.60          |
| Hit# of | 5                     | Tentative ID | MW MolForm             | CAS# Qual      |
| 1       | Undecane              |              | 156 C11H24             | 001120-21-4 81 |
| 2       | Hexadecane, 1-chloro- |              | 260 C16H33Cl           | 004860-03-1 72 |
| 3       | Dodecane              |              | 170 C12H26             | 000112-40-3 64 |
| 4       | Tetradecane           |              | 198 C14H30             | 000629-59-4 59 |
| 5       | Octadecane, 2-methyl- |              | 268 C19H40             | 001560-88-9 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05µ/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

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

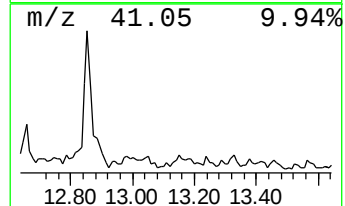
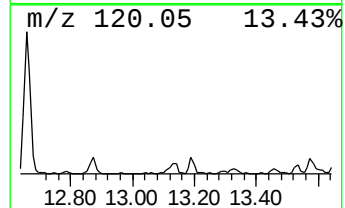
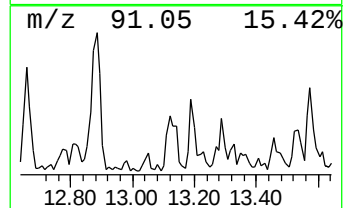
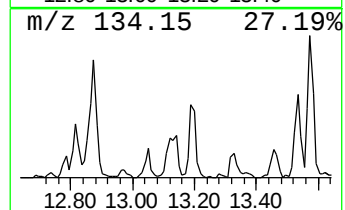
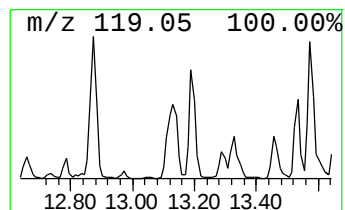
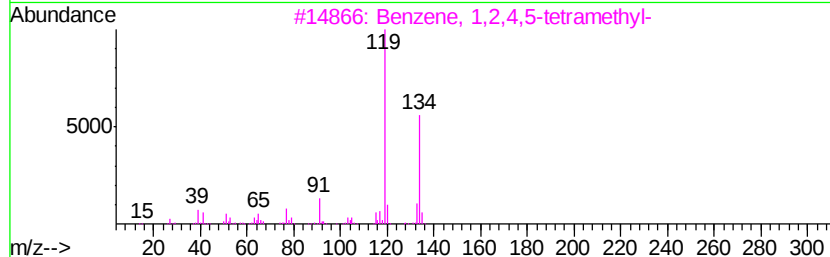
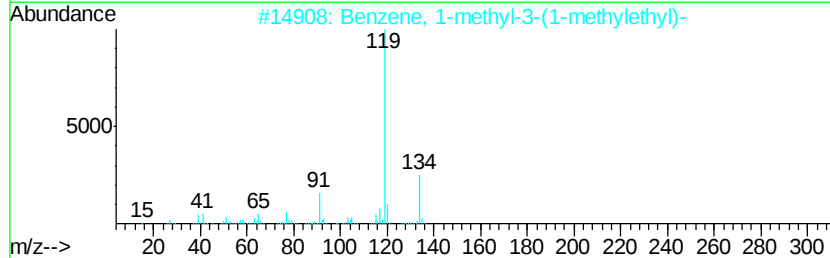
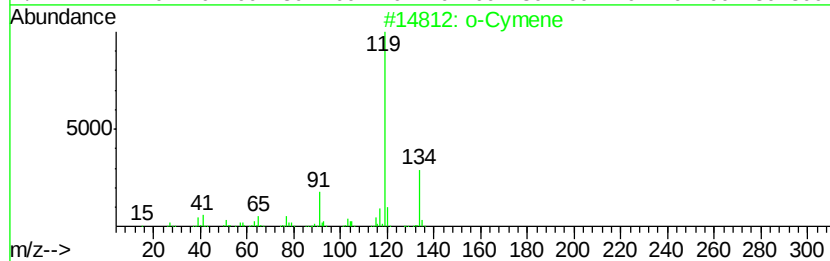
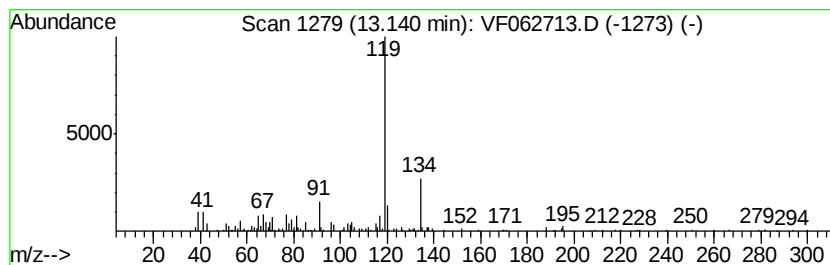
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 o-Cymene Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.14 | 5.21 ug/l | 163466 | 1,4-Dichlorobenzene-d4 | 12.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | o-Cymene                            | 134 | C10H14  | 000527-84-4 | 94   |
| 2    |    | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14  | 000535-77-3 | 91   |
| 3    |    | Benzene, 1,2,4,5-tetramethyl-       | 134 | C10H14  | 000095-93-2 | 87   |
| 4    |    | Benzene, 1-ethyl-2,4-dimethyl-      | 134 | C10H14  | 000874-41-9 | 87   |
| 5    |    | Benzene, 1,2,3,4-tetramethyl-       | 134 | C10H14  | 000488-23-3 | 87   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05a/5mL/MSVOA F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
23-C3-20190399

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

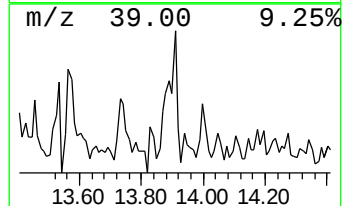
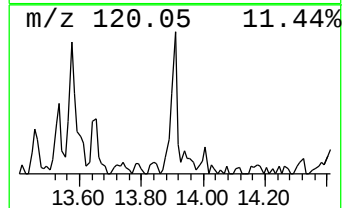
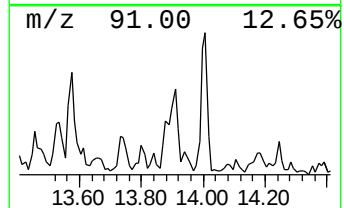
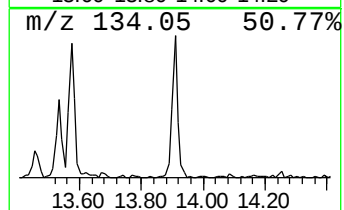
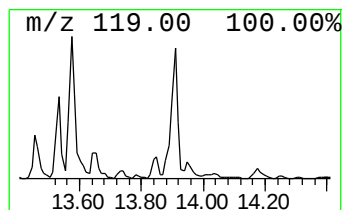
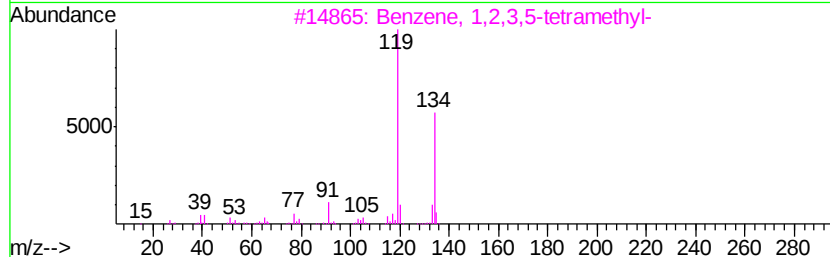
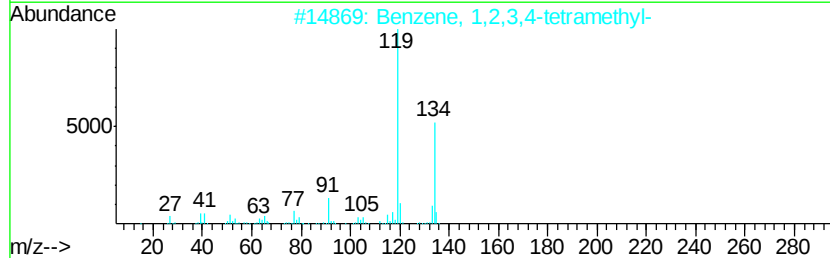
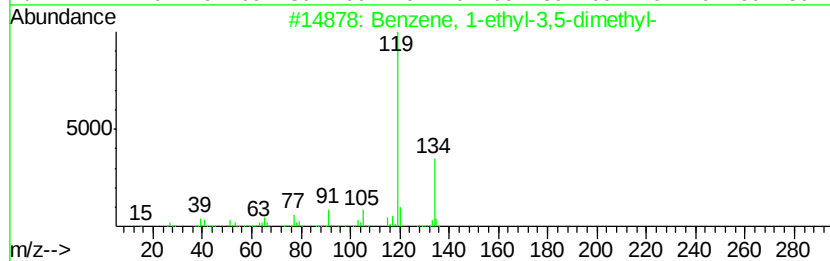
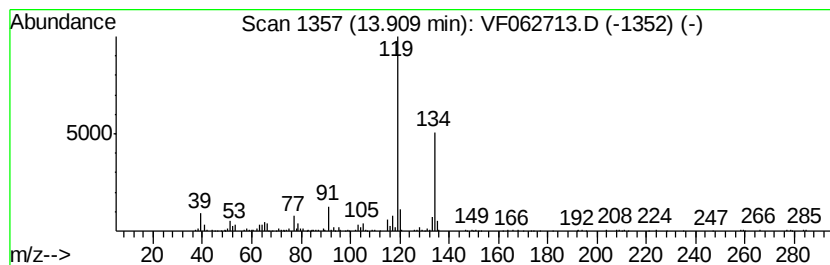
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD       | R.T.  |
|-------|-----------|--------|------------------------|-------|
| 13.91 | 6.80 ug/l | 213413 | 1,4-Dichlorobenzene-d4 | 12.60 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 95   |
| 2    |    | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 95   |
| 3    |    | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 94   |
| 4    |    | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 94   |
| 5    |    | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_F\Data\VF052219\  
Data File : VF062713.D  
Acq On : 22 May 2019 18:42  
Operator : FY/SY  
Sample : K3002-05  
Misc : 5.05g/5mL/MSVOA\_F/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
ClientSampleId :  
23-C3-20190399

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

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Cyclohexane, (1-m... | 10.76 | 5.1     | ug/l  | 230299   | 3                     | 9.90  | 2239350 | 50.0 |
| Cyclohexane, 1,1...  | 11.35 | 9.8     | ug/l  | 306762   | 4                     | 12.60 | 1569080 | 50.0 |
| Cyclohexane, 1-me... | 11.62 | 5.7     | ug/l  | 178403   | 4                     | 12.60 | 1569080 | 50.0 |
| Decane               | 11.72 | 21.5    | ug/l  | 673640   | 4                     | 12.60 | 1569080 | 50.0 |
| Benzene, 1-ethyl...  | 11.77 | 5.0     | ug/l  | 157499   | 4                     | 12.60 | 1569080 | 50.0 |
| Decane, 4-methyl-    | 12.05 | 12.0    | ug/l  | 377793   | 4                     | 12.60 | 1569080 | 50.0 |
| Mesitylene           | 12.66 | 12.7    | ug/l  | 399440   | 4                     | 12.60 | 1569080 | 50.0 |
| Undecane             | 12.85 | 23.0    | ug/l  | 721245   | 4                     | 12.60 | 1569080 | 50.0 |
| o-Cymene             | 13.14 | 5.2     | ug/l  | 163466   | 4                     | 12.60 | 1569080 | 50.0 |
| Benzene, 1-ethyl...  | 13.91 | 6.8     | ug/l  | 213413   | 4                     | 12.60 | 1569080 | 50.0 |