

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\  
 Data File : VF061427.D  
 Acq On : 16 Jan 2019 22:34  
 Operator : VA/AP  
 Sample : K1157-02  
 Misc : 5.03g/5mL/MSVOA-F/SOIL  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 WC-01-011519

Integration Parameters: RTEINT.P

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

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

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

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

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.007       | 136           | 140         | 142          | rBV2     | 9732           | 24332         | 1.16%           | 0.277%        |
| 2         | 4.020       | 335           | 344         | 346          | rBV3     | 6232           | 24606         | 1.17%           | 0.280%        |
| 3         | 4.099       | 346           | 352         | 365          | rVB      | 151198         | 449209        | 21.41%          | 5.111%        |
| 4         | 4.848       | 419           | 428         | 440          | rBV2     | 302373         | 1053160       | 50.20%          | 11.983%       |
| 5         | 5.578       | 496           | 502         | 515          | rBV      | 325218         | 889194        | 42.38%          | 10.118%       |
| 6         | 5.835       | 526           | 528         | 530          | rBV      | 49890          | 33227         | 1.58%           | 0.378%        |
| 7         | 7.541       | 695           | 701         | 712          | rBV      | 397648         | 941948        | 44.90%          | 10.718%       |
| 8         | 9.761       | 921           | 926         | 937          | rBV      | 379613         | 866145        | 41.28%          | 9.855%        |
| 9         | 10.658      | 1012          | 1017        | 1021         | rBV6     | 8379           | 24467         | 1.17%           | 0.278%        |
| 10        | 10.836      | 1030          | 1035        | 1044         | rBV      | 297416         | 634343        | 30.24%          | 7.218%        |
| 11        | 11.211      | 1069          | 1073        | 1077         | rBV      | 146476         | 282228        | 13.45%          | 3.211%        |
| 12        | 11.398      | 1088          | 1092        | 1100         | rBV      | 299845         | 551128        | 26.27%          | 6.271%        |
| 13        | 11.546      | 1105          | 1107        | 1113         | rVV5     | 12434          | 28421         | 1.35%           | 0.323%        |
| 14        | 11.655      | 1113          | 1118        | 1125         | rBV      | 1178081        | 2098005       | 100.00%         | 23.872%       |
| 15        | 12.276      | 1178          | 1181        | 1184         | rBV      | 49800          | 69340         | 3.31%           | 0.789%        |
| 16        | 12.454      | 1196          | 1199        | 1203         | rBV6     | 12742          | 31447         | 1.50%           | 0.358%        |
| 17        | 12.543      | 1204          | 1208        | 1215         | rVB      | 417946         | 646772        | 30.83%          | 7.359%        |
| 18        | 13.499      | 1302          | 1305        | 1309         | rBV6     | 12269          | 27869         | 1.33%           | 0.317%        |
| 19        | 15.472      | 1503          | 1505        | 1510         | rVB4     | 20099          | 32419         | 1.55%           | 0.369%        |
| 20        | 15.561      | 1510          | 1514        | 1520         | rVB3     | 17859          | 37794         | 1.80%           | 0.430%        |
| 21        | 15.758      | 1531          | 1534        | 1537         | rBV5     | 26468          | 42614         | 2.03%           | 0.485%        |

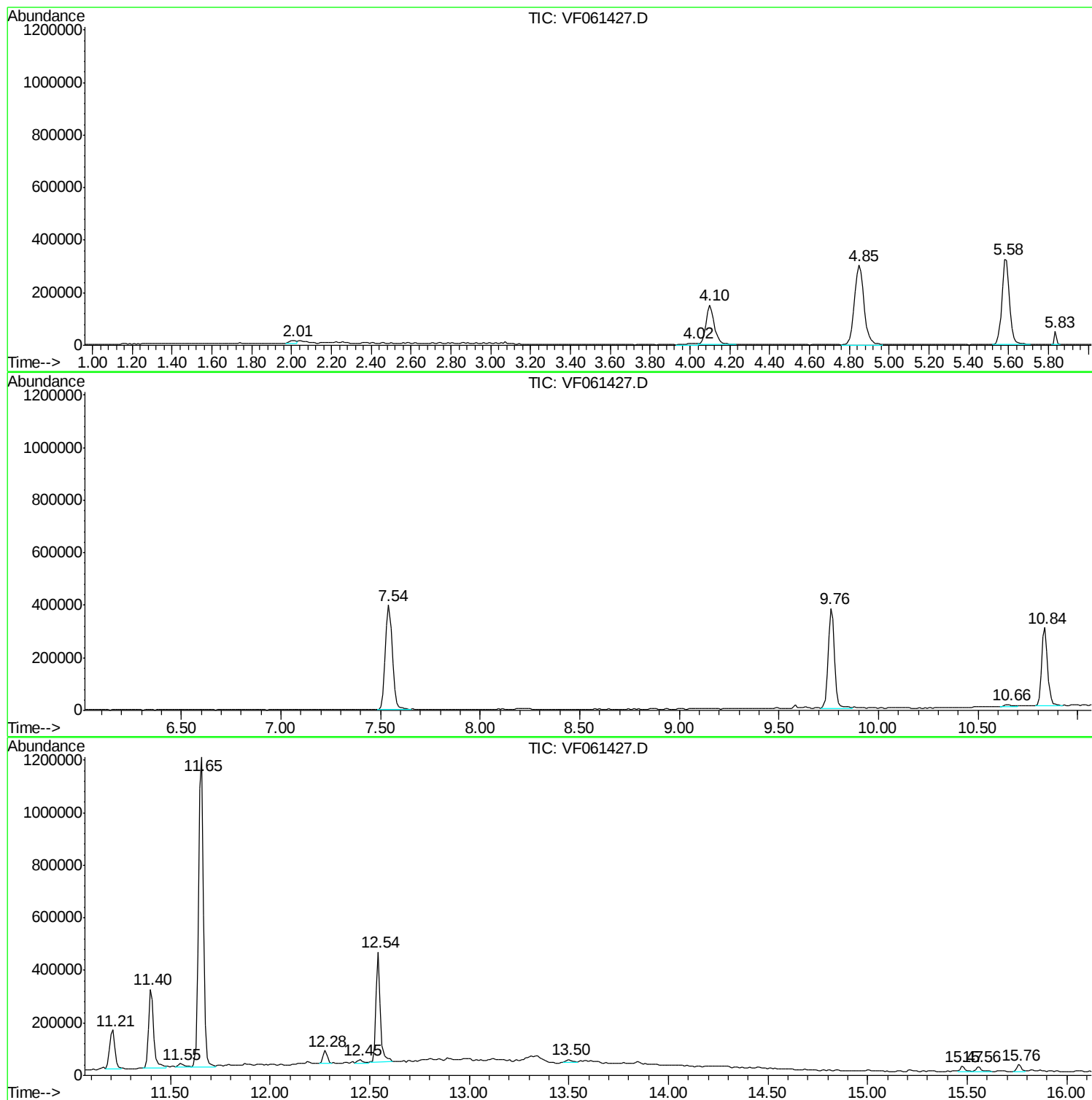
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Instrument :  
MSVOA\_F  
ClientSampleId :  
WC-01-011519

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

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



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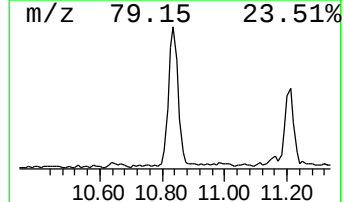
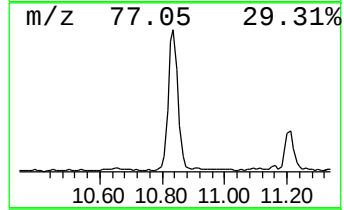
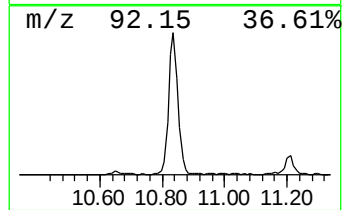
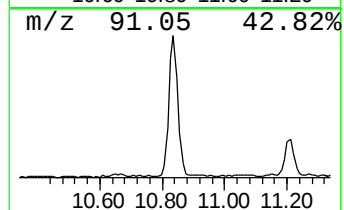
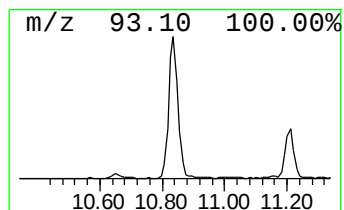
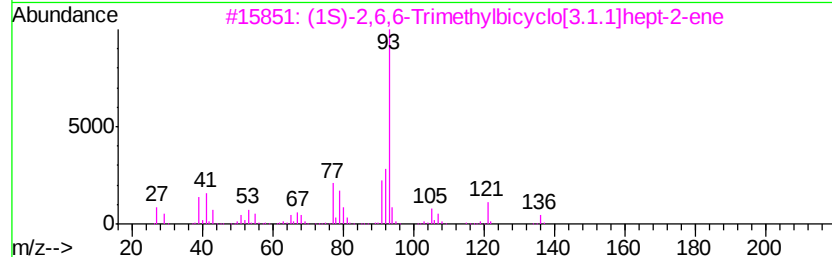
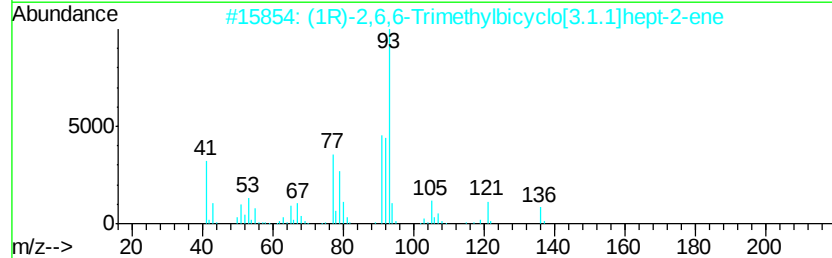
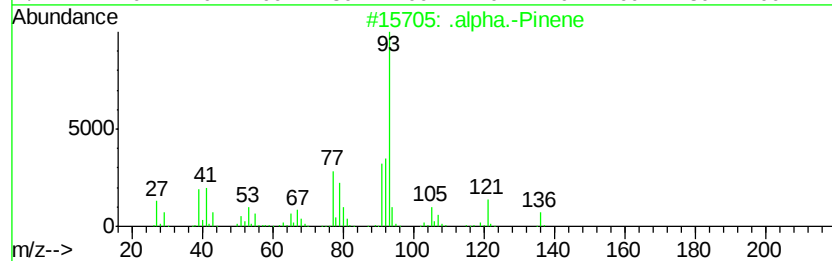
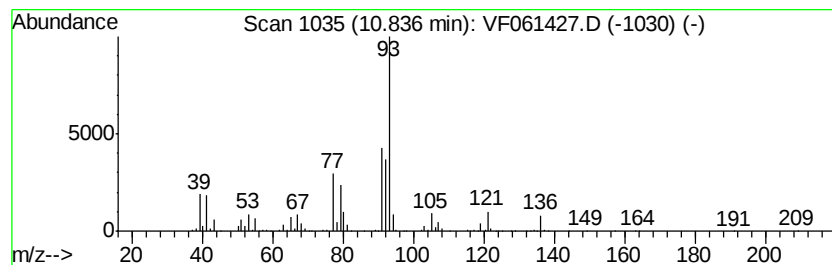
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_F\METHODS\82F011519S.M  
Quant Title : SW846 8260

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

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Peak Number 1 .alpha.-Pinene Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T. |
|-------|------------|--------|------------------|------|
| 10.84 | 36.62 ug/l | 634343 | Chlorobenzene-d5 | 9.76 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | .alpha.-Pinene                      | 136 | C10H16   | 000080-56-8 | 97   |
| 2    |    | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16   | 007785-70-8 | 95   |
| 3    |    | (1S)-2,6,6-Trimethylbicyclo[3.1.... | 136 | C10H16   | 007785-26-4 | 91   |
| 4    |    | Tricyclo[2.2.1.0(2,6)]heptane, 1... | 136 | C10H16   | 000508-32-7 | 90   |
| 5    |    | 3,5-Methanocyclopentapyrazole, 3... | 164 | C10H16N2 | 087143-58-6 | 90   |



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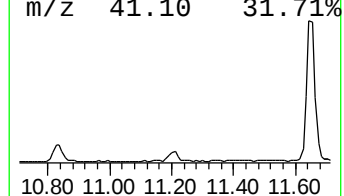
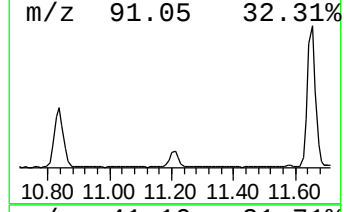
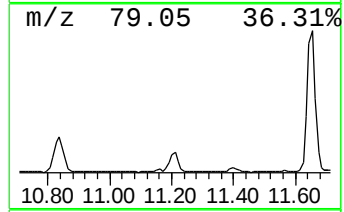
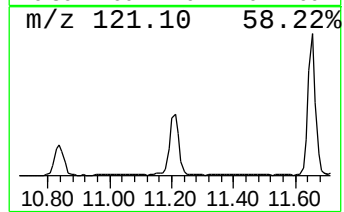
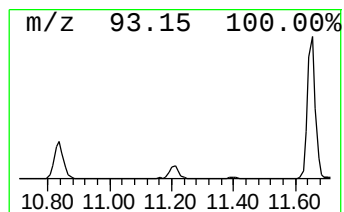
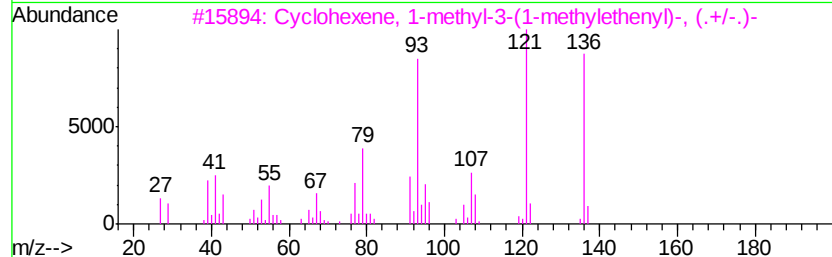
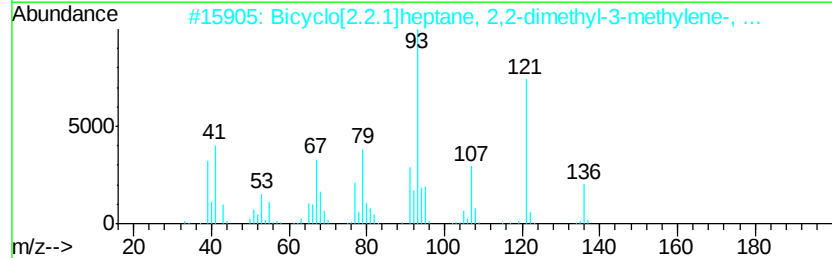
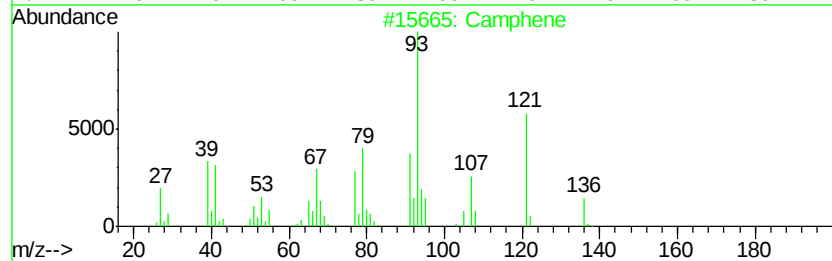
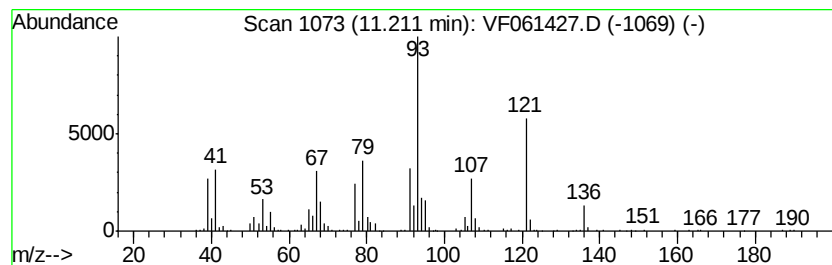
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Camphene Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 11.21 | 21.82 ug/l | 282228 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Camphene                             | 136 | C10H16  | 000079-92-5 | 97   |
| 2    |    | Bicyclo[2.2.1]heptane, 2,2-dimet...  | 136 | C10H16  | 005794-04-7 | 96   |
| 3    |    | Cyclohexene, 1-methyl-3-(1-methyl... | 136 | C10H16  | 000499-03-6 | 83   |
| 4    |    | (+)-4-Carene                         | 136 | C10H16  | 029050-33-7 | 81   |
| 5    |    | 2-Carene                             | 136 | C10H16  | 000554-61-0 | 74   |



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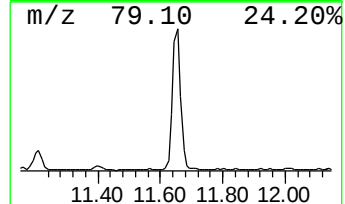
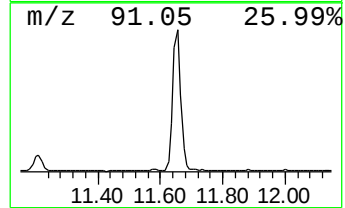
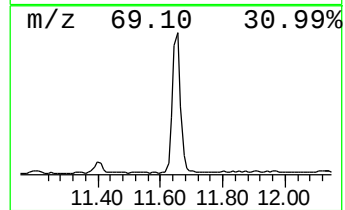
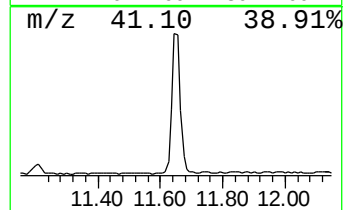
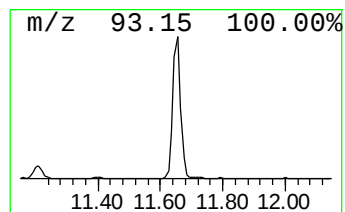
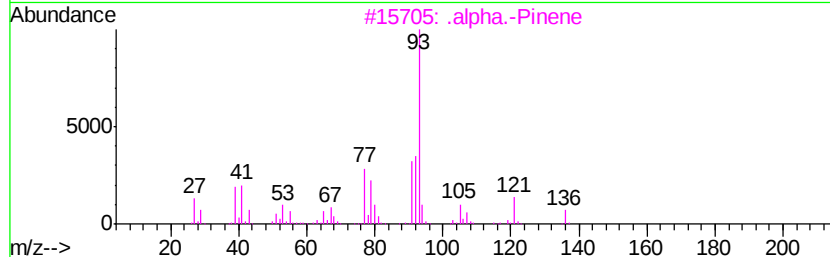
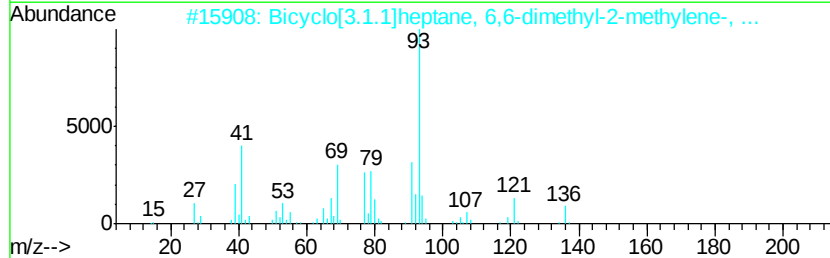
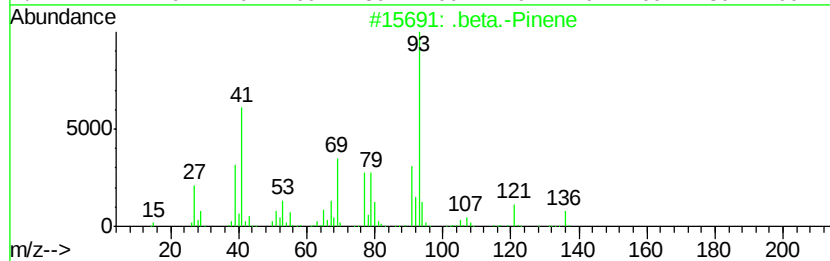
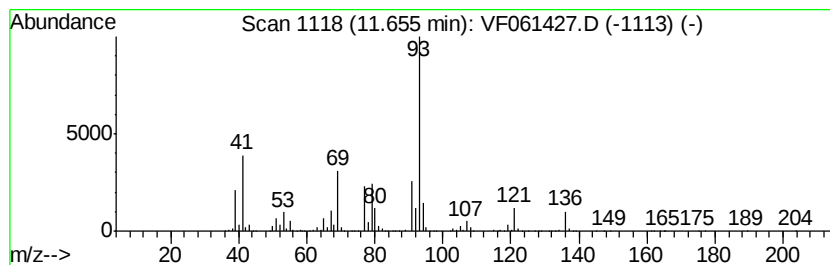
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 .beta.-Pinene Concentration Rank 1

| R.T.  | EstConc     | Area    | Relative to ISTD       | R.T.  |
|-------|-------------|---------|------------------------|-------|
| 11.65 | 162.19 ug/l | 2098010 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | .beta.-Pinene                       | 136 | C10H16  | 000127-91-3 | 97   |
| 2    |    | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136 | C10H16  | 018172-67-3 | 96   |
| 3    |    | .alpha.-Pinene                      | 136 | C10H16  | 000080-56-8 | 93   |
| 4    |    | Cyclohexene, 4-methylene-1-(1-me... | 136 | C10H16  | 000099-84-3 | 91   |
| 5    |    | Bicyclo[3.1.0]hexane, 4-methylen... | 136 | C10H16  | 003387-41-5 | 90   |



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Quant Title : SW846 8260

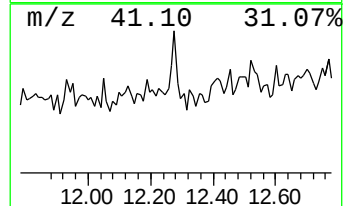
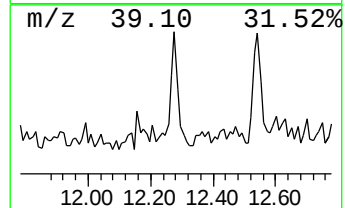
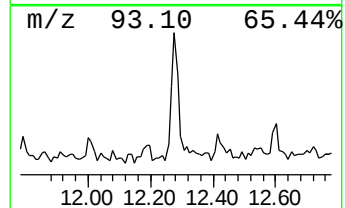
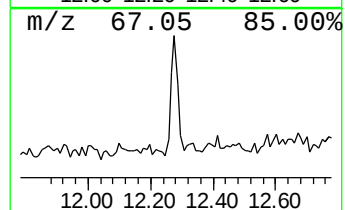
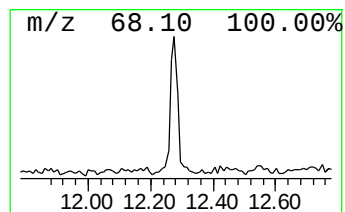
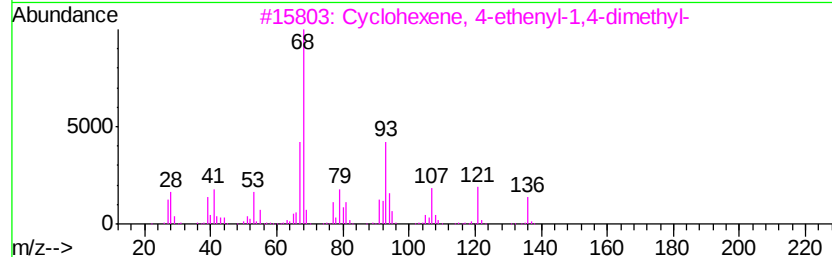
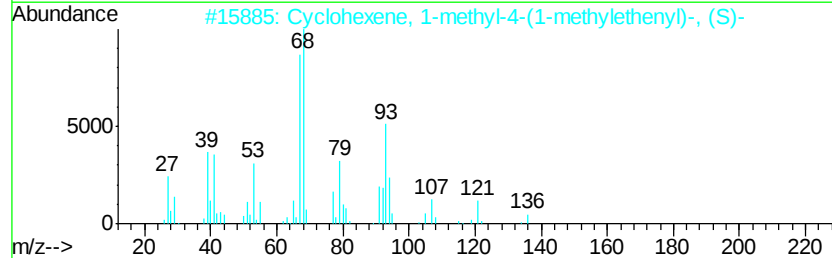
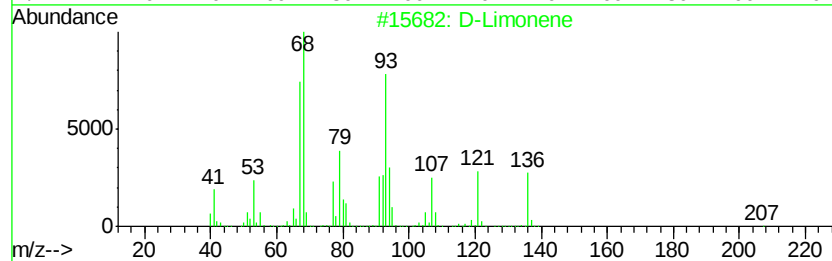
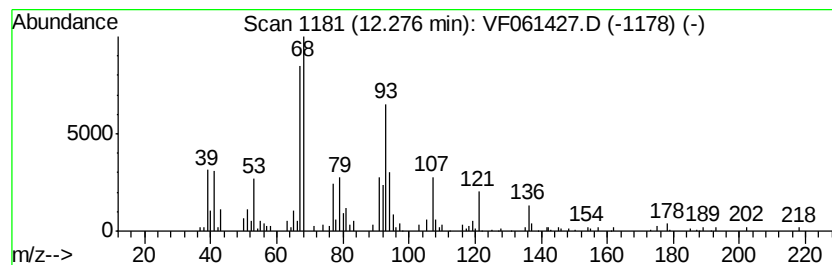
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 D-Limonene Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 12.28 | 5.36 ug/l | 69340 | 1,4-Dichlorobenzene-d4 | 12.54 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | D-Limonene                          | 136 | C10H16  | 005989-27-5 | 91   |
| 2    |    | Cyclohexene, 1-methyl-4-(1-methy... | 136 | C10H16  | 005989-54-8 | 90   |
| 3    |    | Cyclohexene, 4-ethenyl-1,4-dimet... | 136 | C10H16  | 001743-61-9 | 70   |
| 4    |    | Limonene                            | 136 | C10H16  | 000138-86-3 | 68   |
| 5    |    | 1,5-Cyclooctadiene, 1,5-dimethyl-   | 136 | C10H16  | 003760-14-3 | 43   |



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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| .alpha.-Pinene   | 10.84 | 36.6    | ug/l  | 634343   | 3                     | 9.76  | 866145 | 50.0 |
| Camphene         | 11.21 | 21.8    | ug/l  | 282228   | 4                     | 12.54 | 646772 | 50.0 |
| .beta.-Pinene    | 11.65 | 162.2   | ug/l  | 2098010  | 4                     | 12.54 | 646772 | 50.0 |
| D-Limonene       | 12.28 | 5.4     | ug/l  | 69340    | 4                     | 12.54 | 646772 | 50.0 |