

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082124\  
Data File : VY019205.D  
Acq On : 22 Aug 2024 07:21  
Operator : SY/MD  
Sample : P3671-11  
Misc : 7.77g/5.0mL/MSVOA\_Y/SOIL/A  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
S-903-J-SO-0-0.5-081924

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\_Y\methods\82Y081524S.M

Title : SW846 8260

Signal : TIC: VY019205.D\data.ms

| 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         | 7.628       | 959           | 969         | 975          | rBV      | 83999          | 201069        | 3.76%           | 2.264%        |
| 2         | 7.701       | 975           | 981         | 993          | rVB      | 134820         | 304041        | 5.69%           | 3.423%        |
| 3         | 8.055       | 1031          | 1039        | 1051         | rBV2     | 68609          | 155173        | 2.90%           | 1.747%        |
| 4         | 8.610       | 1121          | 1130        | 1140         | rBV      | 210768         | 417690        | 7.81%           | 4.702%        |
| 5         | 10.109      | 1367          | 1376        | 1389         | rBV      | 324657         | 560512        | 10.48%          | 6.310%        |
| 6         | 11.420      | 1580          | 1591        | 1603         | rBV      | 312690         | 500074        | 9.35%           | 5.630%        |
| 7         | 12.261      | 1721          | 1729        | 1745         | rBV      | 3456203        | 5346185       | 100.00%         | 60.189%       |
| 8         | 12.408      | 1746          | 1753        | 1761         | rVV      | 246514         | 392497        | 7.34%           | 4.419%        |
| 9         | 12.511      | 1761          | 1770        | 1778         | rVB      | 245249         | 398651        | 7.46%           | 4.488%        |
| 10        | 12.816      | 1815          | 1820        | 1829         | rVB      | 130335         | 206575        | 3.86%           | 2.326%        |
| 11        | 13.353      | 1902          | 1908        | 1916         | rVB      | 259951         | 399851        | 7.48%           | 4.502%        |

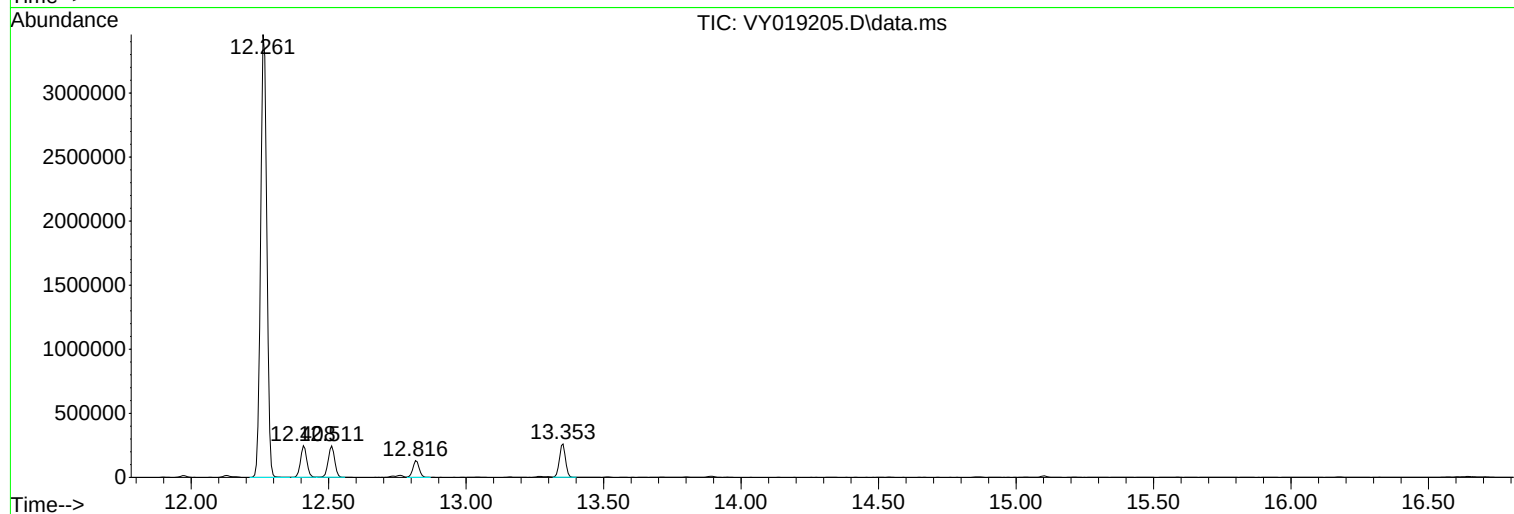
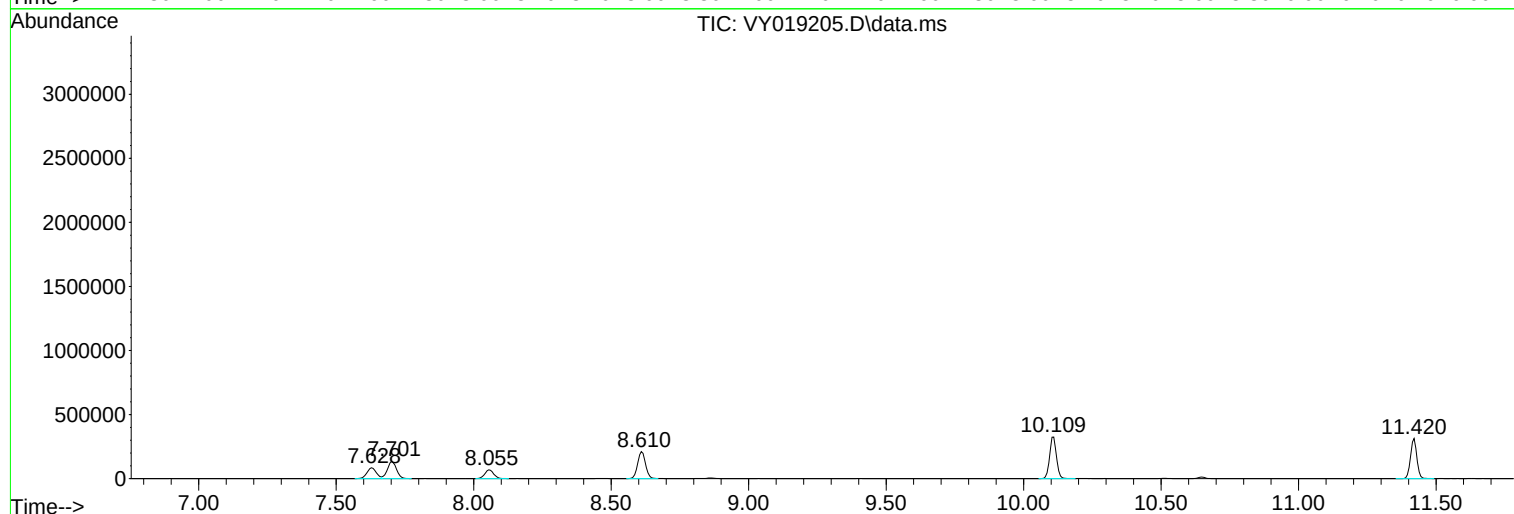
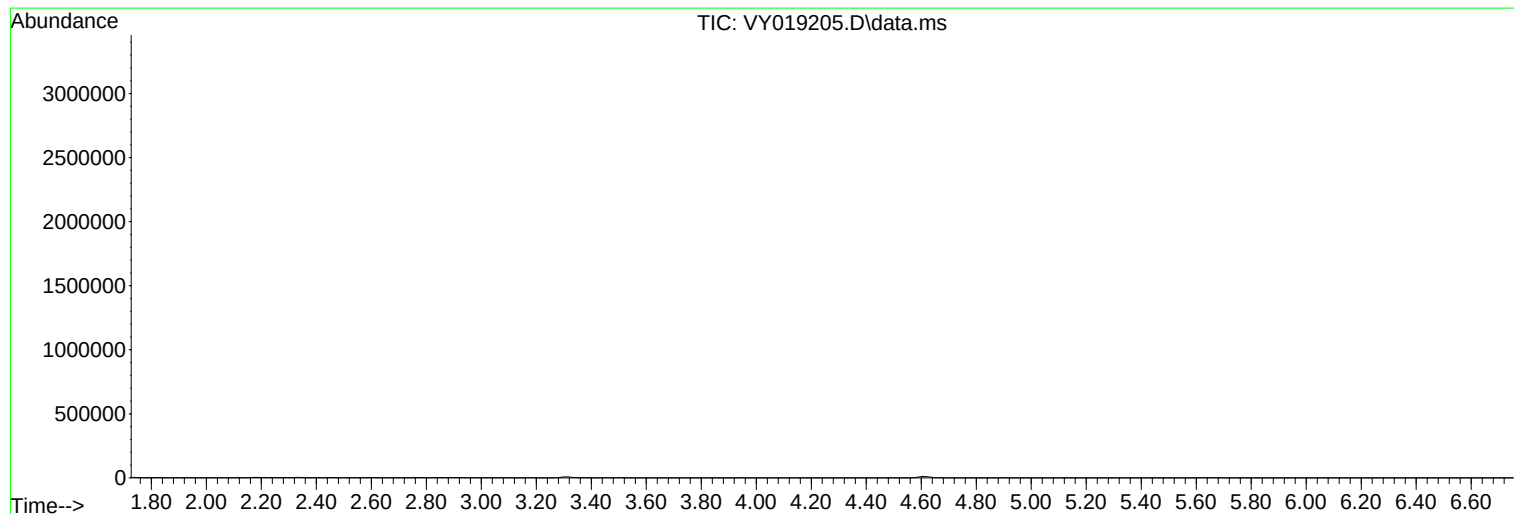
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081524S.M  
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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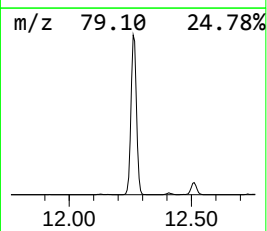
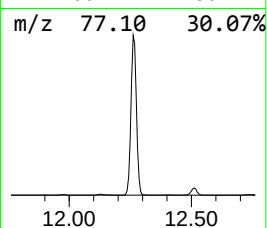
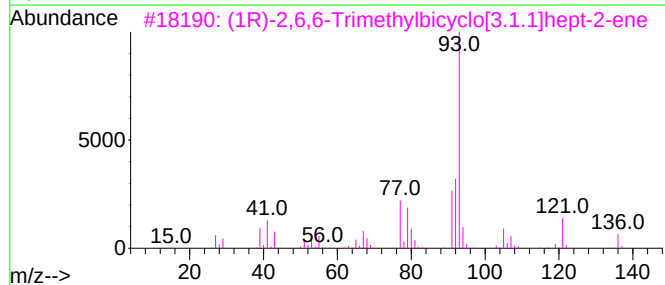
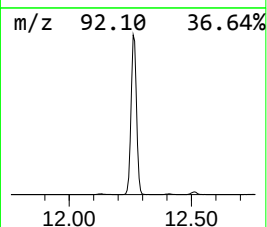
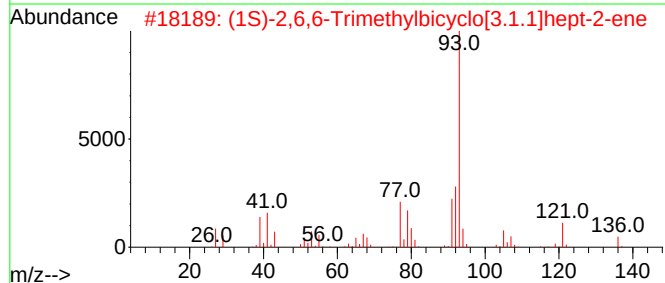
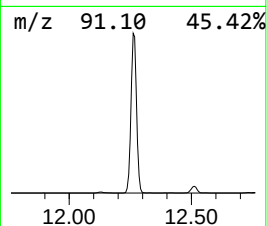
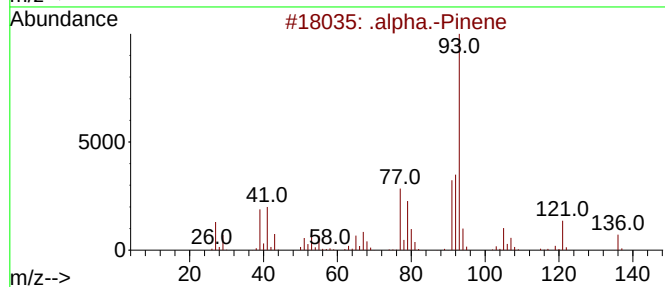
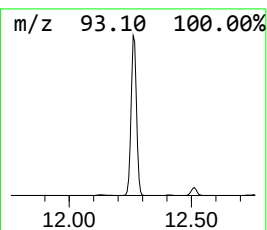
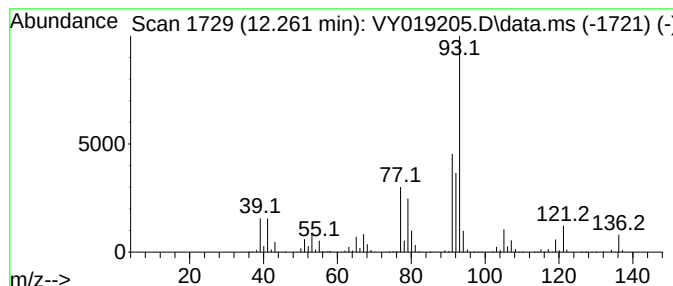
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 .alpha.-Pinene Concentration Rank 1

| R.T.   | EstConc     | Area    | Relative to ISTD | R.T.   |
|--------|-------------|---------|------------------|--------|
| 12.261 | 534.54 ug/l | 5346190 | Chlorobenzene-d5 | 11.420 |

| Hit# | of                                  | 5 | Tentative ID   | MW  | MolForm | CAS#        | Qual |
|------|-------------------------------------|---|----------------|-----|---------|-------------|------|
| 1    | .                                   |   | .alpha.-Pinene | 136 | C10H16  | 000080-56-8 | 97   |
| 2    | (1S)-2,6,6-Trimethylbicyclo[3.1...  |   |                | 136 | C10H16  | 007785-26-4 | 95   |
| 3    | (1R)-2,6,6-Trimethylbicyclo[3.1...  |   |                | 136 | C10H16  | 007785-70-8 | 94   |
| 4    | (+)-3-Carene                        |   |                | 136 | C10H16  | 000498-15-7 | 91   |
| 5    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-... |   |                | 136 | C10H16  | 004889-83-2 | 91   |



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Quant Title : SW846 8260

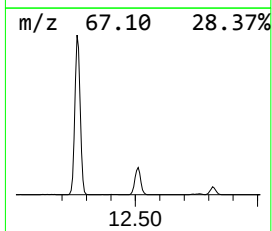
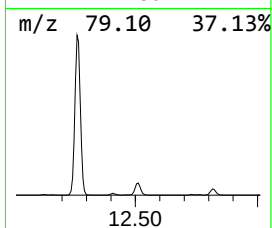
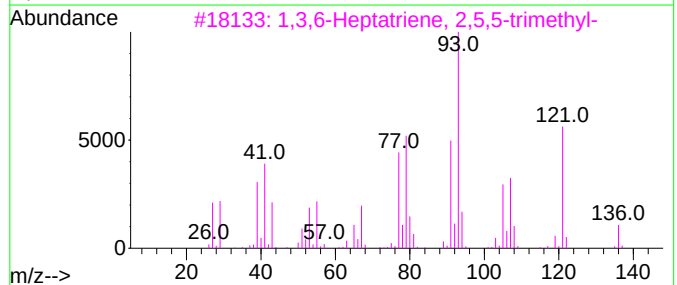
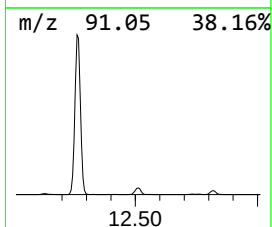
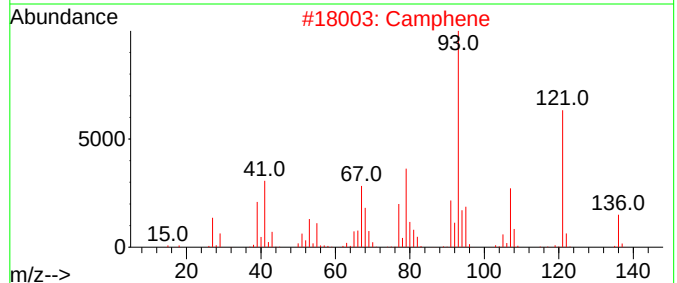
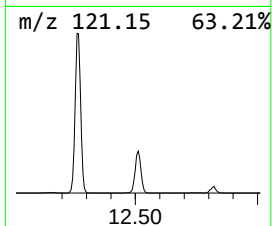
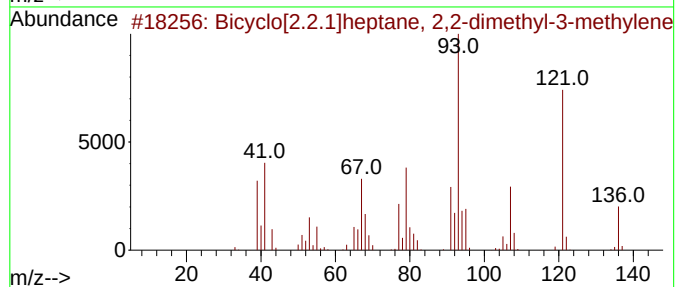
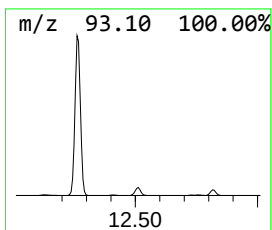
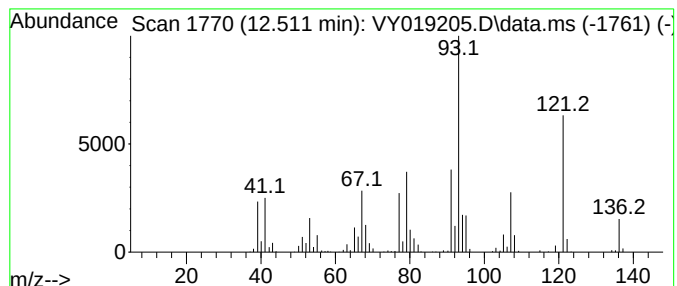
TIC Library : C:\Database\NIST20.L  
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Peak Number 2 Bicyclo[2.2.1]heptane, 2,2-... Concentration Rank 2

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.511 | 49.85 ug/l | 398651 | 1,4-Dichlorobenzene-d4 | 13.353 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Bicyclo[2.2.1]heptane, 2,2-dimet... | 136 | C10H16  | 005794-04-7 | 97   |
| 2    |    |   | Camphene                            | 136 | C10H16  | 000079-92-5 | 97   |
| 3    |    |   | 1,3,6-Heptatriene, 2,5,5-trimethyl- | 136 | C10H16  | 029548-02-5 | 91   |
| 4    |    |   | Bicyclo[2.2.1]hept-2-ene, 1,7,7-... | 136 | C10H16  | 000464-17-5 | 90   |
| 5    |    |   | (+)-4-Carene                        | 136 | C10H16  | 029050-33-7 | 90   |



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Quant Title : SW846 8260

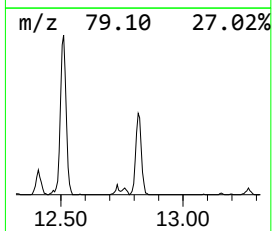
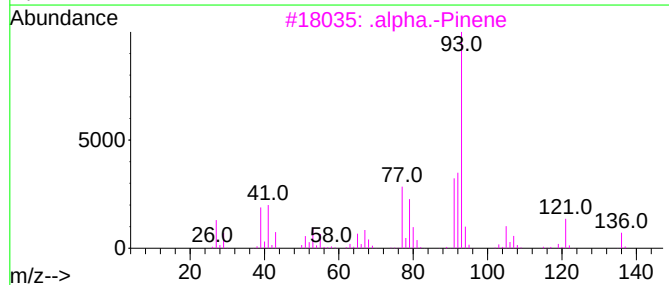
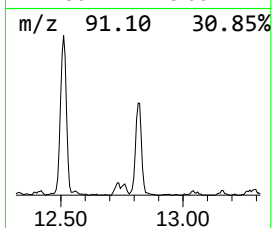
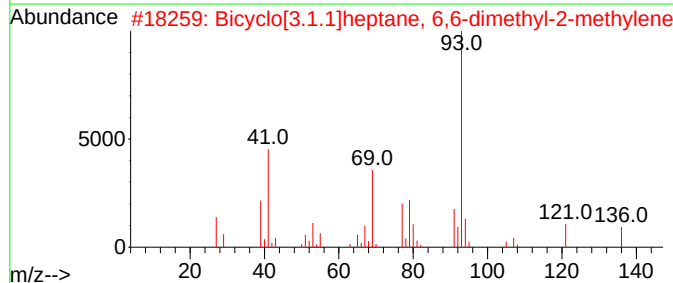
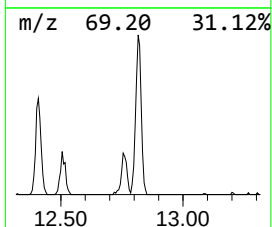
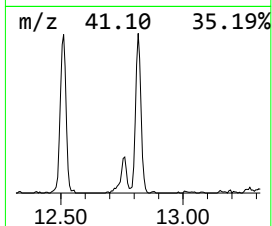
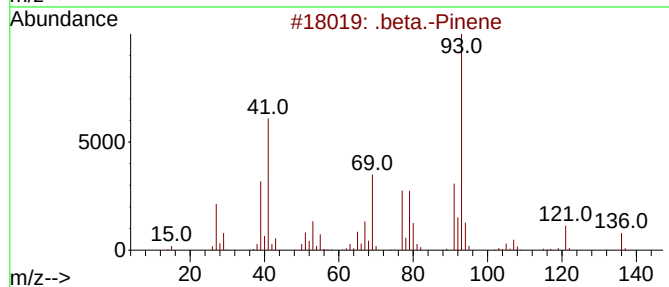
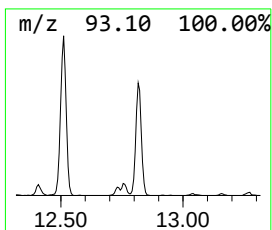
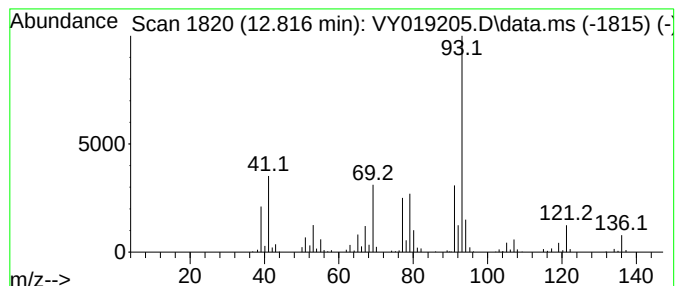
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 .beta.-Pinene Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 12.816 | 25.83 ug/l | 206575 | 1,4-Dichlorobenzene-d4 | 13.353 |

| Hit# | of                                  | 5            | Tentative ID | MW          | MolForm     | CAS# | Qual |
|------|-------------------------------------|--------------|--------------|-------------|-------------|------|------|
| 1    | .                                   | beta.-Pinene | 136          | C10H16      | 000127-91-3 | 97   |      |
| 2    | Bicyclo[3.1.1]heptane, 6,6-dimet... | 136          | C10H16       | 018172-67-3 | 97          |      |      |
| 3    | .alpha.-Pinene                      | 136          | C10H16       | 000080-56-8 | 90          |      |      |
| 4    | Bicyclo[3.1.0]hexane, 4-methylen... | 136          | C10H16       | 003387-41-5 | 87          |      |      |
| 5    | (1R)-2,6,6-Trimethylbicyclo[3.1.... | 136          | C10H16       | 007785-70-8 | 87          |      |      |



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| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |        |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|--------|------|
|                    |        |         |       |          | #                     | RT     | Resp   | Conc |
| .alpha.-Pinene     | 12.261 | 534.5   | ug/l  | 5346190  | 3                     | 11.420 | 500074 | 50.0 |
| Bicyclo[2.2.1]h... | 12.511 | 49.9    | ug/l  | 398651   | 4                     | 13.353 | 399851 | 50.0 |
| .beta.-Pinene      | 12.816 | 25.8    | ug/l  | 206575   | 4                     | 13.353 | 399851 | 50.0 |