

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN101518\  
 Data File : VN051870.D  
 Acq On : 15 Oct 2018 13:33  
 Operator : MD\SY  
 Sample : J5510-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 001M-WILLETS-PT-BLVD-OCT

Integration Parameters: RTEINT3.P

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

Filtering: 5  
 Min Area: 0 % 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\_N\METHODS\624N101218W.M  
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

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         | 3.818       | 615           | 636         | 654          | rBV      | 1351427        | 3569547       | 13.18%          | 8.381%        |
| 2         | 4.066       | 695           | 713         | 740          | rBV      | 318702         | 915908        | 3.38%           | 2.151%        |
| 3         | 7.197       | 1667          | 1687        | 1710         | rBV2     | 292044         | 808848        | 2.99%           | 1.899%        |
| 4         | 8.027       | 1928          | 1945        | 1967         | rBV      | 280597         | 669604        | 2.47%           | 1.572%        |
| 5         | 8.586       | 2103          | 2119        | 2145         | rBV      | 762630         | 1596088       | 5.89%           | 3.748%        |
| 6         | 10.091      | 2572          | 2587        | 2595         | rBV      | 1145534        | 2077372       | 7.67%           | 4.878%        |
| 7         | 10.156      | 2595          | 2607        | 2636         | rVB      | 14810762       | 27078915      | 100.00%         | 63.582%       |
| 8         | 11.406      | 2980          | 2996        | 3020         | rBV      | 1006442        | 1822807       | 6.73%           | 4.280%        |
| 9         | 11.805      | 3105          | 3120        | 3134         | rBV      | 773542         | 1223901       | 4.52%           | 2.874%        |
| 10        | 12.403      | 3292          | 3306        | 3327         | rBV      | 694335         | 1273847       | 4.70%           | 2.991%        |
| 11        | 13.165      | 3527          | 3543        | 3556         | rVB4     | 196066         | 366453        | 1.35%           | 0.860%        |
| 12        | 13.287      | 3571          | 3581        | 3593         | rVB      | 567708         | 864158        | 3.19%           | 2.029%        |
| 13        | 14.901      | 4074          | 4083        | 4098         | rVB      | 179919         | 321607        | 1.19%           | 0.755%        |

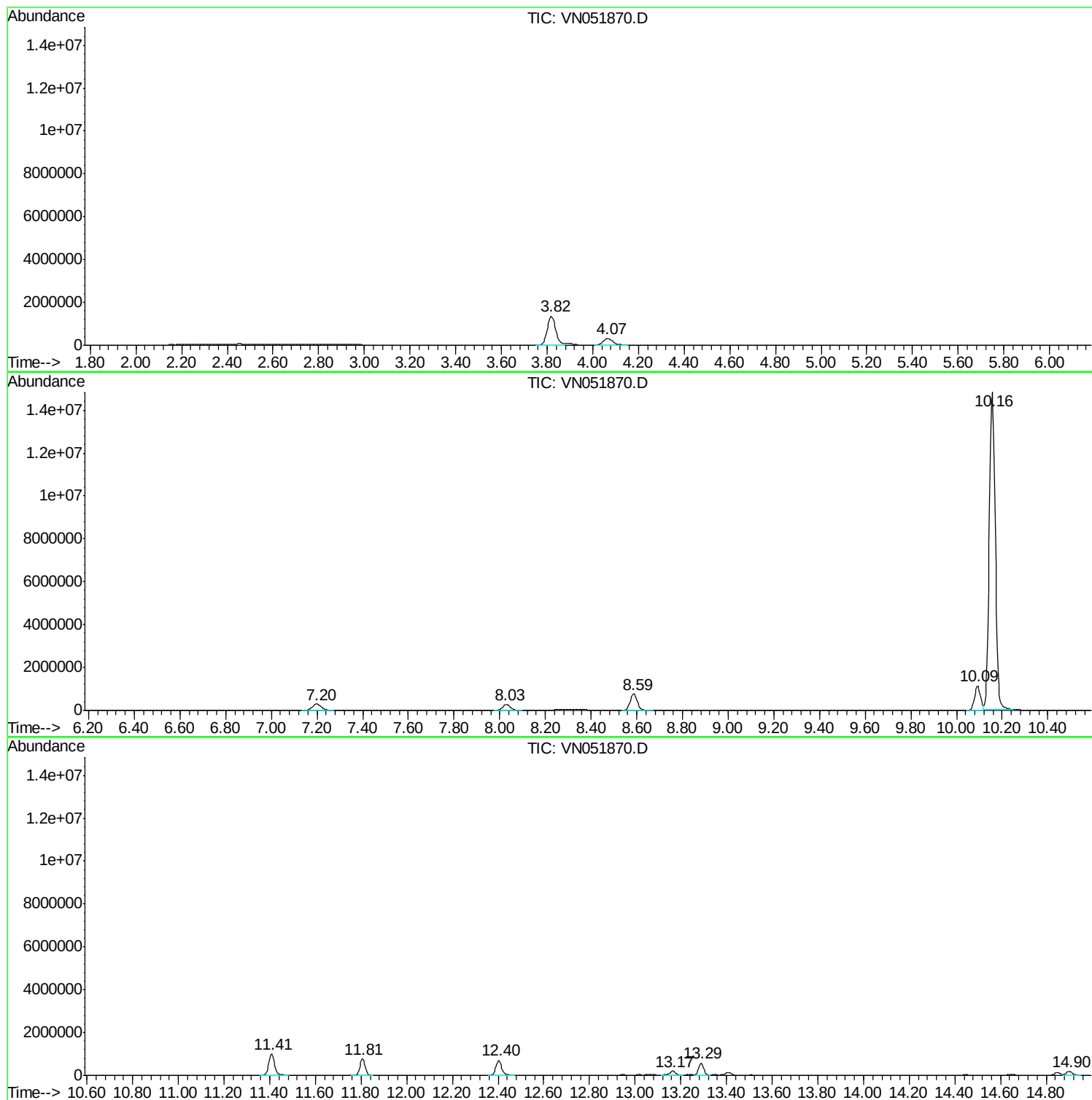
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Instrument :  
MSVOA\_N  
ClientSampled :  
001M-WILLETS-PT-BLVD-OCT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Instrument :  
MSVOA\_N  
ClientSampleId :  
001M-WILLETS-PT-BLVD-OCT

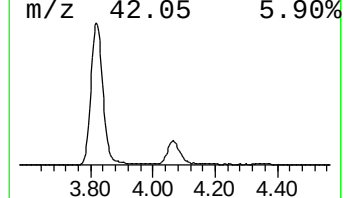
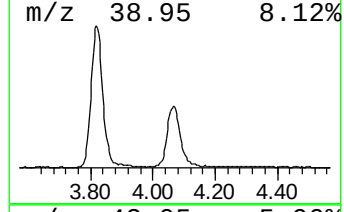
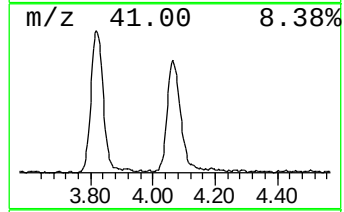
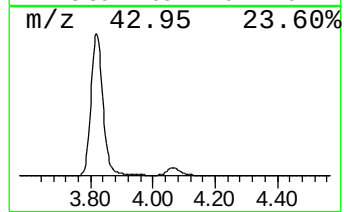
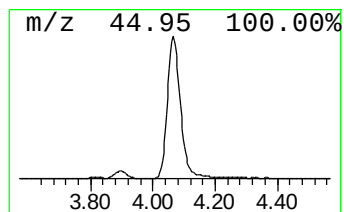
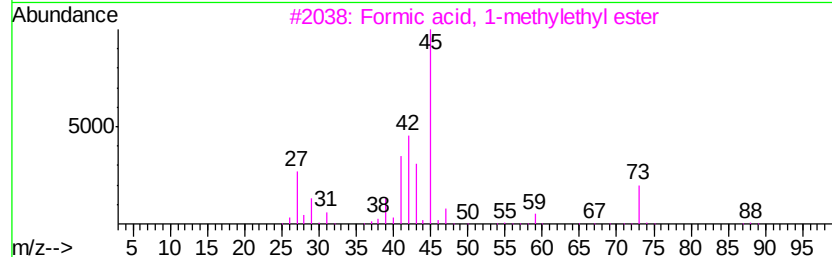
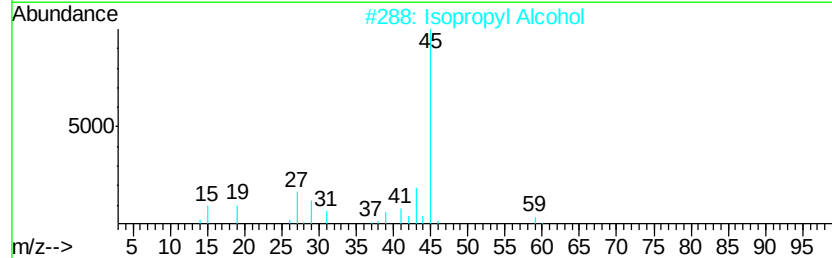
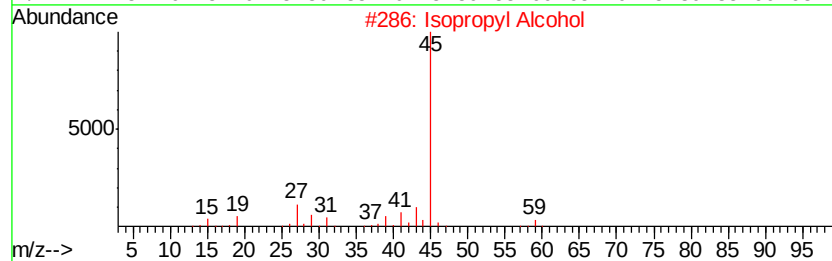
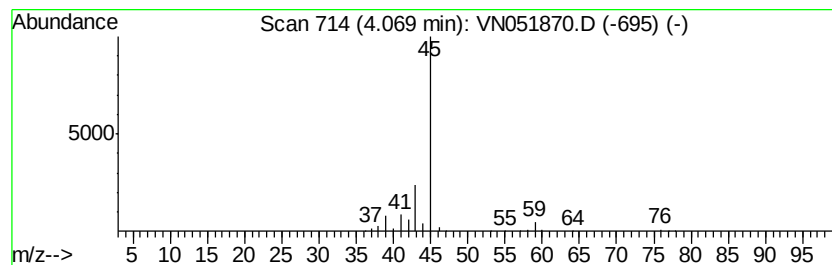
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Isopropyl Alcohol Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD   | R.T. |
|------|------------|--------|--------------------|------|
| 4.07 | 33.97 ug/l | 915908 | Bromochloromethane | 7.20 |

| Hit# | of | Tentative ID                     | MW | MolForm | CAS#        | Qual |
|------|----|----------------------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol                | 60 | C3H8O   | 000067-63-0 | 78   |
| 2    |    | Isopropyl Alcohol                | 60 | C3H8O   | 000067-63-0 | 78   |
| 3    |    | Formic acid, 1-methylethyl ester | 88 | C4H8O2  | 000625-55-8 | 40   |
| 4    |    | Hydrazine, ethyl-                | 60 | C2H8N2  | 000624-80-6 | 40   |
| 5    |    | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 40   |



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ALS Vial : 10 Sample Multiplier: 28

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MSVOA\_N  
ClientSampleId :  
001M-WILLETS-PT-BLVD-OCT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

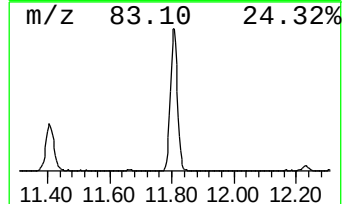
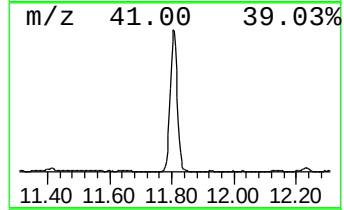
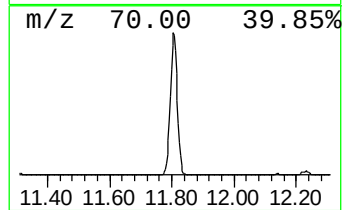
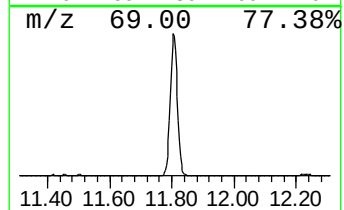
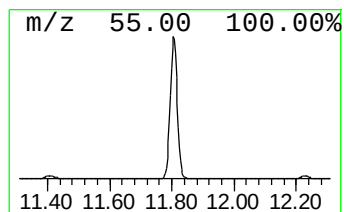
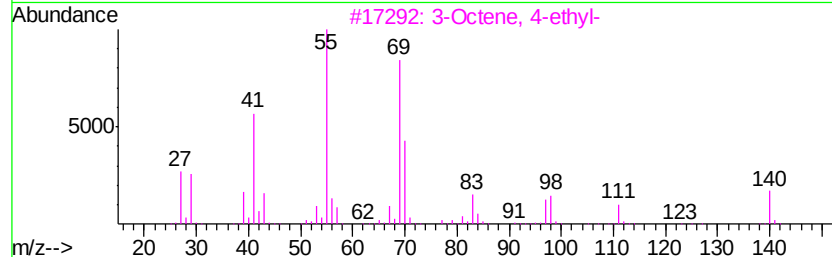
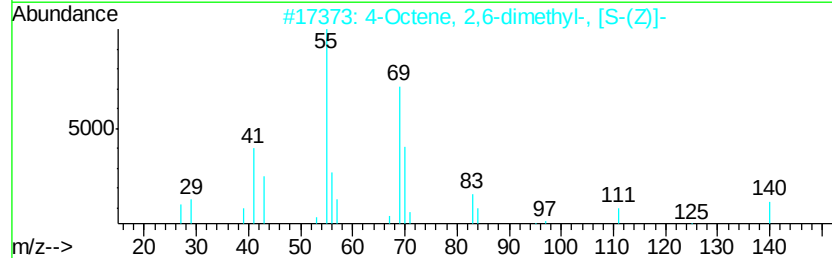
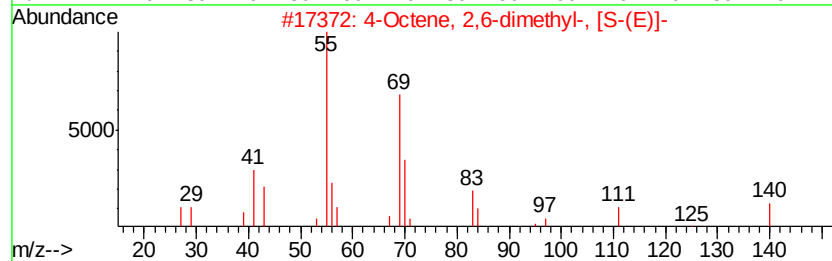
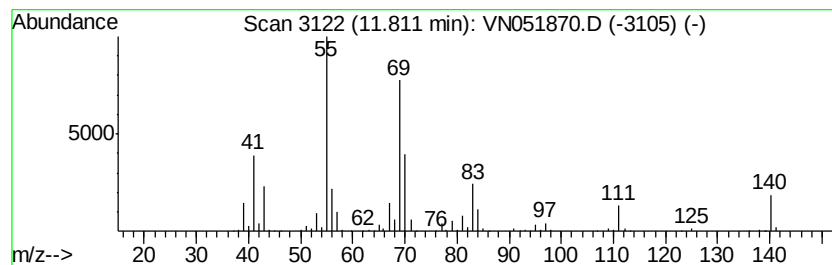
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 4-Octene, 2,6-dimethyl-, [S... Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 11.81 | 20.14 ug/l | 1223900 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | 4-Octene, 2,6-dimethyl-, [S-(E)]- | 140 | C10H20  | 062960-76-3 | 91   |
| 2    |    | 4-Octene, 2,6-dimethyl-, [S-(Z)]- | 140 | C10H20  | 062960-77-4 | 91   |
| 3    |    | 3-Octene, 4-ethyl-                | 140 | C10H20  | 053966-51-1 | 83   |
| 4    |    | 2-Octene, 4-ethyl-                | 140 | C10H20  | 053966-52-2 | 64   |
| 5    |    | 2-Octene, 4-ethyl-                | 140 | C10H20  | 053966-52-2 | 64   |



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ALS Vial : 10 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
001M-WILLETS-PT-BLVD-OCT

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N101218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

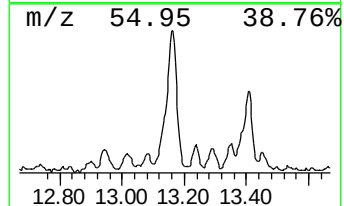
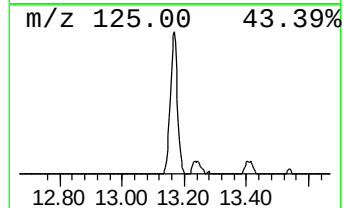
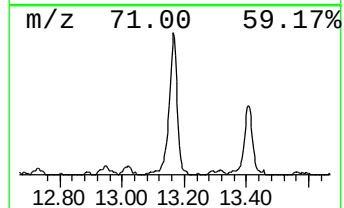
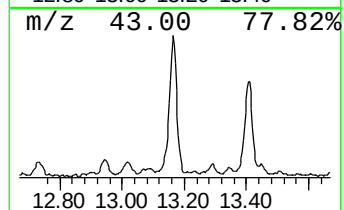
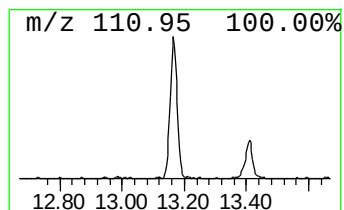
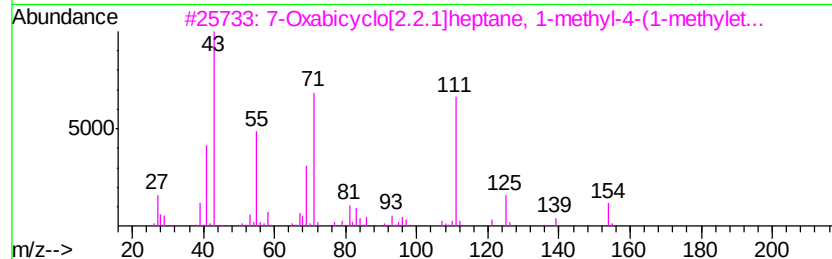
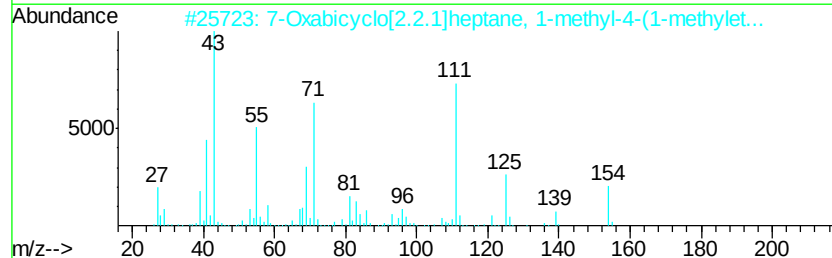
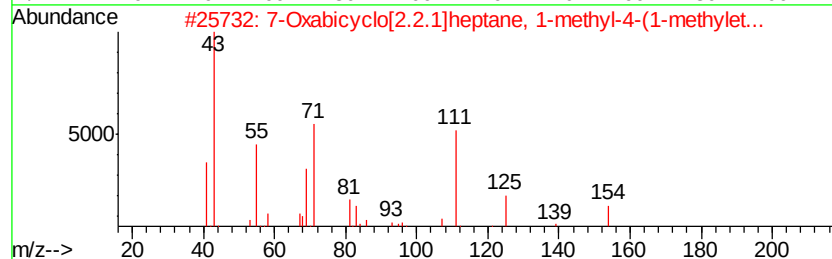
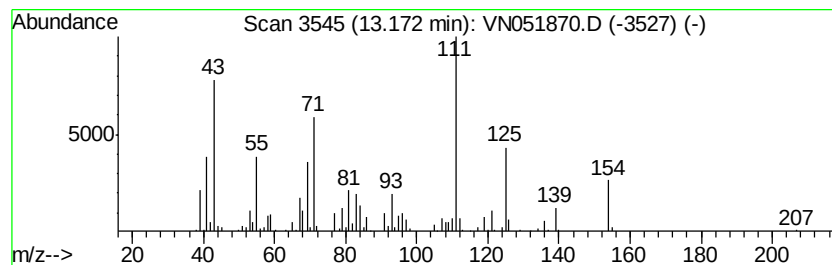
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 7-Oxabicyclo[2.2.1]heptane,... Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 13.17 | 6.03 ug/l | 366453 | Chlorobenzene-d5 | 11.41 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 89   |
| 2    |    | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 81   |
| 3    |    | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 74   |
| 4    |    | 4-Hepten-3-one, 2,5,6-trimethyl-    | 154 | C10H18O | 016466-21-0 | 50   |
| 5    |    | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 46   |



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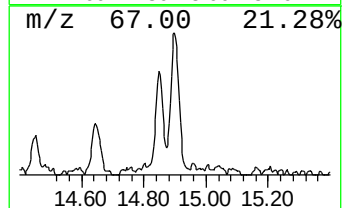
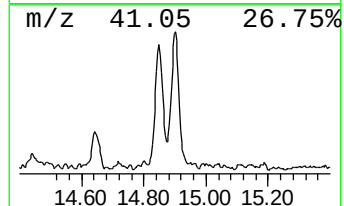
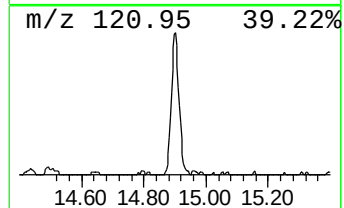
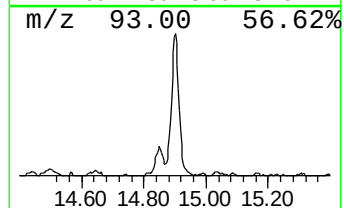
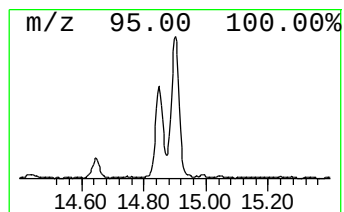
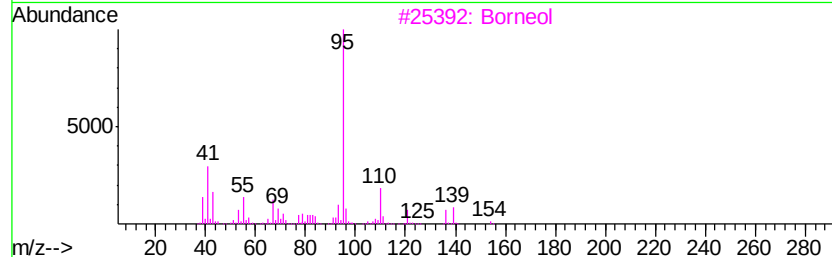
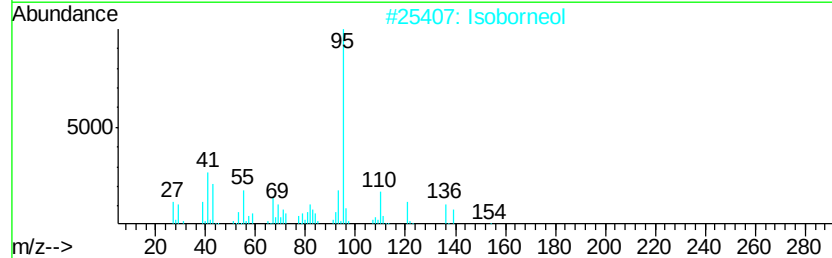
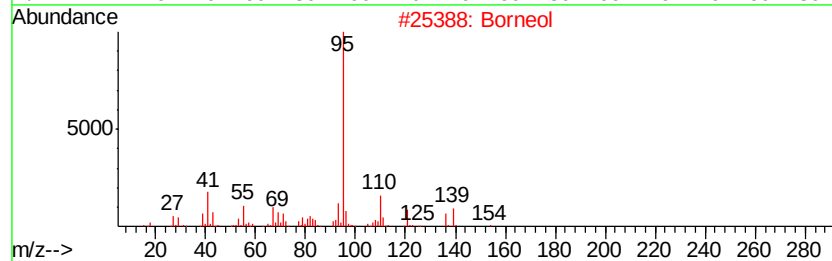
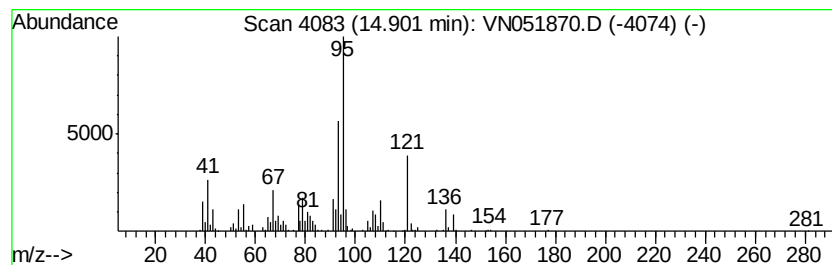
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ClientSampleId :  
001M-WILLETS-PT-BLVD-OCT

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Borneol Concentration Rank 4

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.    |             |      |
|---------|-------------------------------------|--------------|------------------|---------|-------------|------|
| 14.90   | 5.29 ug/l                           | 321607       | Chlorobenzene-d5 | 11.41   |             |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | Borneol                             |              | 154              | C10H18O | 000507-70-0 | 58   |
| 2       | Isoborneol                          |              | 154              | C10H18O | 000124-76-5 | 58   |
| 3       | Borneol                             |              | 154              | C10H18O | 010385-78-1 | 58   |
| 4       | Borneol                             |              | 154              | C10H18O | 000507-70-0 | 53   |
| 5       | Bicyclo[2.2.1]heptan-2-ol, 1,7,7... |              | 154              | C10H18O | 000464-45-9 | 49   |



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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Isopropyl Alcohol    | 4.07  | 34.0    | ug/l  | 915908   | 1                     | 7.20  | 808848  | 30.0 |
| 4-Octene, 2,6-dim... | 11.81 | 20.1    | ug/l  | 1223900  | 3                     | 11.41 | 1822810 | 30.0 |
| 7-Oxabicyclo[2.2.... | 13.17 | 6.0     | ug/l  | 366453   | 3                     | 11.41 | 1822810 | 30.0 |
| Borneol              | 14.90 | 5.3     | ug/l  | 321607   | 3                     | 11.41 | 1822810 | 30.0 |