

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW091718\  
 Data File : VW005460.D  
 Acq On : 18 Sep 2018 05:01  
 Operator : SY/AP  
 Sample : J4944-01  
 Misc : 6.80G/5ML/MSVOA W/SOIL  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 RB48377RT

## 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\_W\METHOD\82W091618S.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      | 2.221    | 48         | 52       | 53        | rBV3  | 1889        | 2508       | 2.24%        | 0.542%     |
| 2      | 2.251    | 53         | 57       | 65        | rVV7  | 3422        | 8692       | 7.78%        | 1.878%     |
| 3      | 2.331    | 65         | 70       | 74        | rVB6  | 1986        | 3505       | 3.14%        | 0.757%     |
| 4      | 7.884    | 976        | 981      | 982       | rBV   | 1724        | 1986       | 1.78%        | 0.429%     |
| 5      | 7.964    | 988        | 994      | 1000      | rVB3  | 5119        | 9644       | 8.63%        | 2.083%     |
| 6      | 8.305    | 1045       | 1050     | 1052      | rBV3  | 2093        | 3001       | 2.68%        | 0.648%     |
| 7      | 8.854    | 1134       | 1140     | 1145      | rVB3  | 5652        | 11668      | 10.44%       | 2.521%     |
| 8      | 10.329   | 1376       | 1382     | 1389      | rBV2  | 4002        | 6976       | 6.24%        | 1.507%     |
| 9      | 10.719   | 1440       | 1446     | 1447      | rBV2  | 4261        | 5647       | 5.05%        | 1.220%     |
| 10     | 11.542   | 1575       | 1581     | 1584      | rBV5  | 799         | 1420       | 1.27%        | 0.307%     |
| 11     | 11.634   | 1590       | 1596     | 1601      | rBV4  | 3972        | 6910       | 6.18%        | 1.493%     |
| 12     | 11.920   | 1638       | 1643     | 1646      | rBV4  | 1067        | 1634       | 1.46%        | 0.353%     |
| 13     | 12.158   | 1677       | 1682     | 1684      | rBV4  | 1145        | 1850       | 1.65%        | 0.400%     |
| 14     | 12.182   | 1684       | 1686     | 1689      | rBV4  | 861         | 1371       | 1.23%        | 0.296%     |
| 15     | 12.475   | 1725       | 1734     | 1741      | rBV   | 23714       | 43476      | 38.89%       | 9.392%     |
| 16     | 12.640   | 1744       | 1761     | 1773      | rBV   | 22080       | 111783     | 100.00%      | 24.148%    |
| 17     | 12.951   | 1810       | 1812     | 1815      | rVV4  | 1466        | 1424       | 1.27%        | 0.308%     |
| 18     | 12.981   | 1815       | 1817     | 1819      | rVV3  | 1141        | 1495       | 1.34%        | 0.323%     |
| 19     | 13.036   | 1821       | 1826     | 1833      | rVV6  | 5037        | 11353      | 10.16%       | 2.453%     |
| 20     | 13.103   | 1836       | 1837     | 1842      | rVB5  | 1536        | 1474       | 1.32%        | 0.318%     |
| 21     | 13.158   | 1844       | 1846     | 1848      | rVV3  | 950         | 1124       | 1.01%        | 0.243%     |
| 22     | 13.219   | 1852       | 1856     | 1857      | rVB4  | 1211        | 1451       | 1.30%        | 0.313%     |
| 23     | 13.438   | 1889       | 1892     | 1893      | rBV2  | 1778        | 1760       | 1.57%        | 0.380%     |
| 24     | 13.475   | 1893       | 1898     | 1899      | rBV5  | 2286        | 3606       | 3.23%        | 0.779%     |
| 25     | 13.725   | 1926       | 1939     | 1951      | rBV5  | 11290       | 55872      | 49.98%       | 12.070%    |
| 26     | 13.926   | 1971       | 1972     | 1975      | rBV3  | 1211        | 1341       | 1.20%        | 0.290%     |
| 27     | 14.139   | 2004       | 2007     | 2008      | rBV3  | 2410        | 2408       | 2.15%        | 0.520%     |
| 28     | 14.231   | 2008       | 2022     | 2023      | rBV4  | 22613       | 56139      | 50.22%       | 12.127%    |
| 29     | 14.383   | 2045       | 2047     | 2050      | rBV4  | 1482        | 1652       | 1.48%        | 0.357%     |
| 30     | 14.554   | 2069       | 2075     | 2094      | rVB8  | 20473       | 92626      | 82.86%       | 20.009%    |
| 31     | 15.298   | 2194       | 2197     | 2199      | rBV4  | 2007        | 2498       | 2.23%        | 0.540%     |
| 32     | 15.572   | 2240       | 2242     | 2245      | rBV3  | 1684        | 1484       | 1.33%        | 0.321%     |
| 33     | 16.426   | 2380       | 2382     | 2384      | rBV3  | 1258        | 1410       | 1.26%        | 0.305%     |
| 34     | 16.602   | 2407       | 2411     | 2412      | rBV4  | 1477        | 1724       | 1.54%        | 0.372%     |

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ALS Vial : 45 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
RB48377RT

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\_W\METHOD\82W091618S.M  
Title : SW846 8260

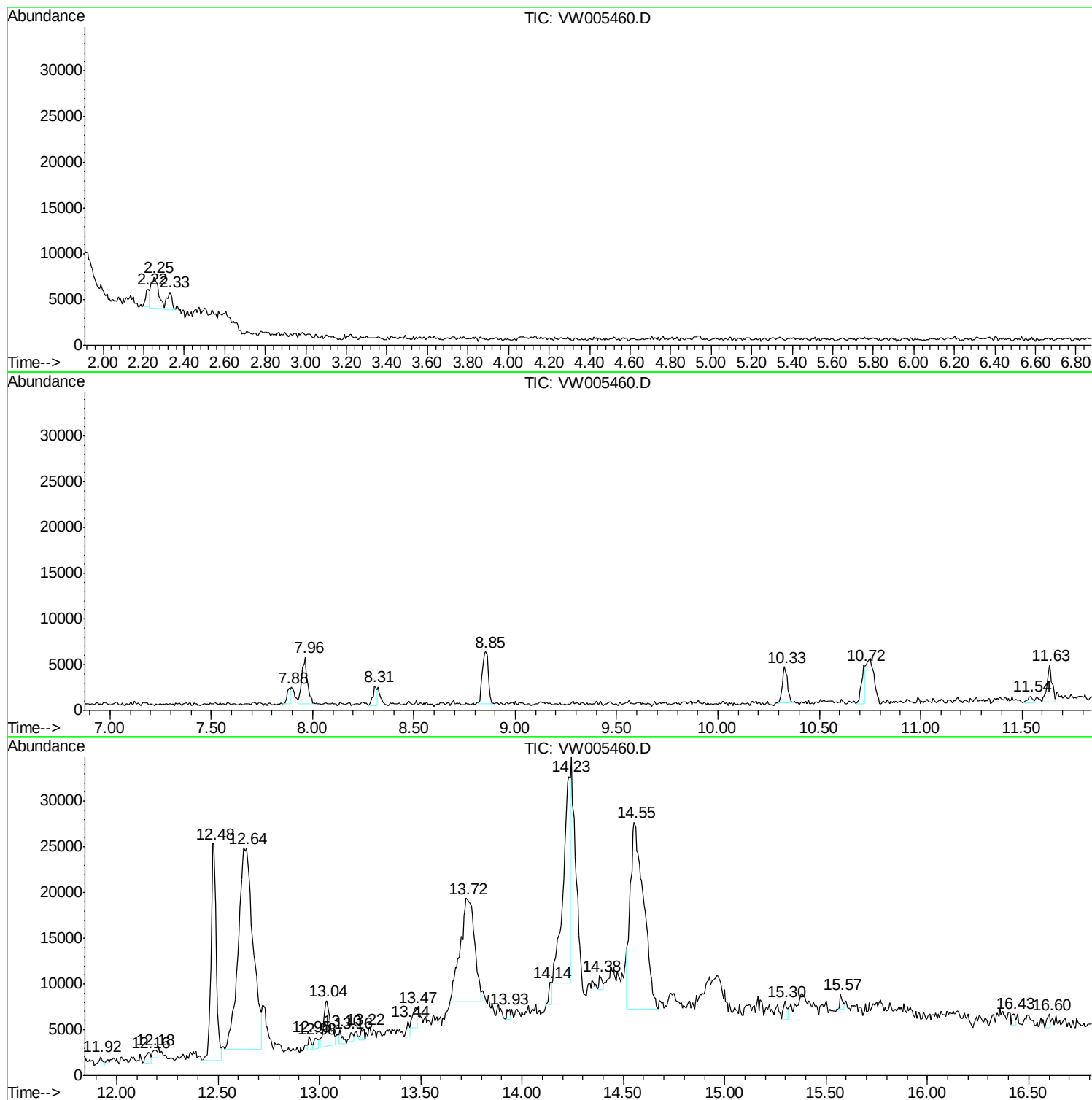
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260

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



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Instrument :  
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ClientSampled :  
RB48377RT

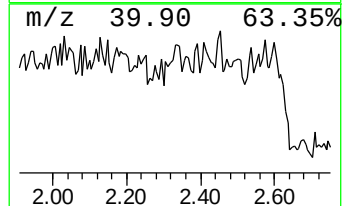
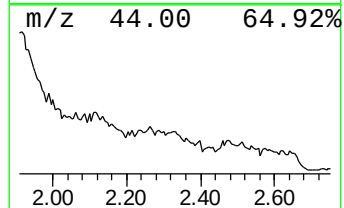
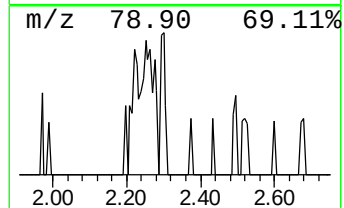
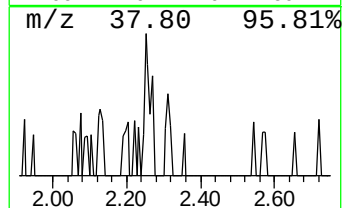
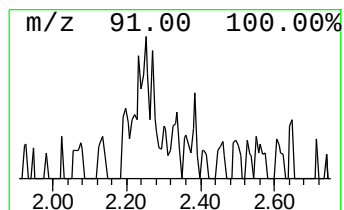
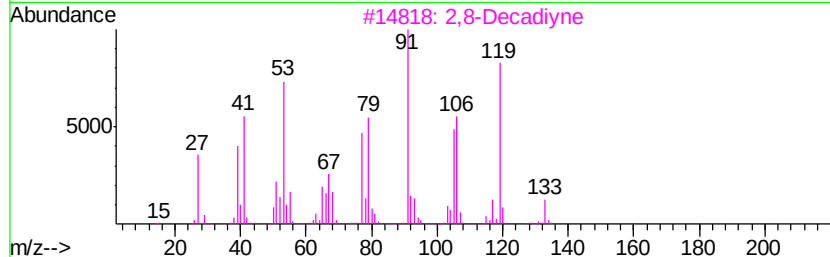
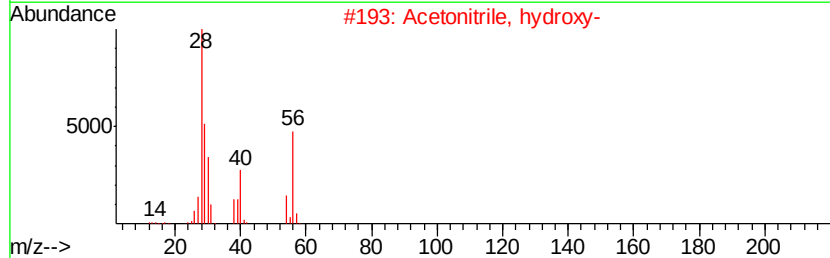
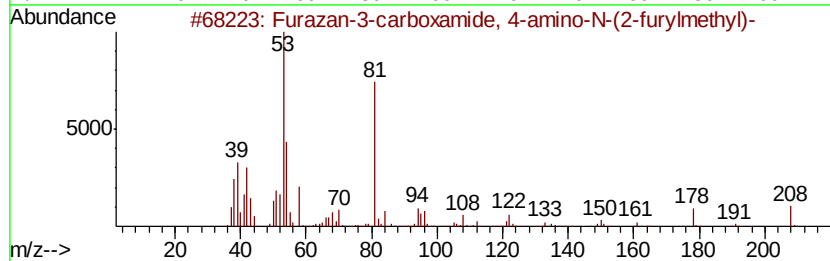
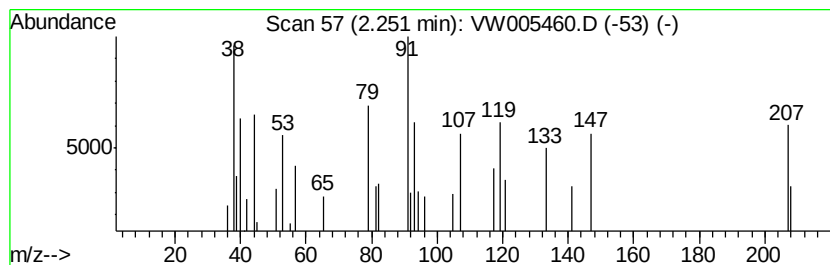
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260

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

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Peak Number 1 unknown2.25 Concentration Rank 7

| R.T. | EstConc    | Area | Relative to ISTD   | R.T. |
|------|------------|------|--------------------|------|
| 2.25 | 45.06 ug/l | 8692 | Pentafluorobenzene | 7.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Furazan-3-carboxamide, 4-amino-N... | 208 | C8H8N4O3 | 296771-05-6 | 12   |
| 2    |    | Acetonitrile, hydroxy-              | 57  | C2H3NO   | 000107-16-4 | 9    |
| 3    |    | 2,8-Decadiyne                       | 134 | C10H14   | 004116-93-2 | 9    |
| 4    |    | 1,3-Butadiene-1-carboxylic acid     | 98  | C5H6O2   | 000626-99-3 | 9    |
| 5    |    | Spirohexan-5-one                    | 96  | C6H8O    | 020061-22-7 | 9    |



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ALS Vial : 45 Sample Multiplier: 1

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ClientSampleId :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260

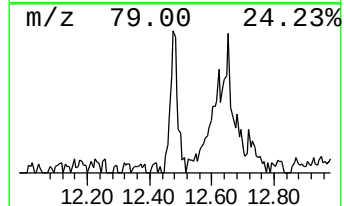
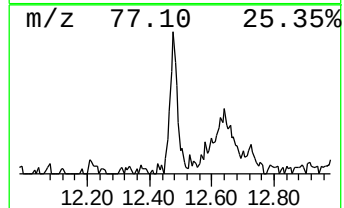
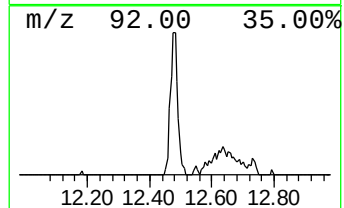
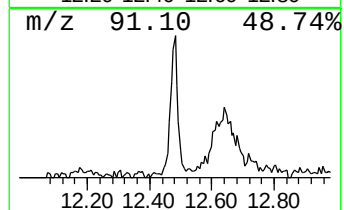
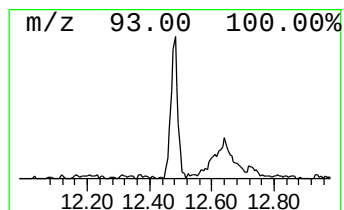
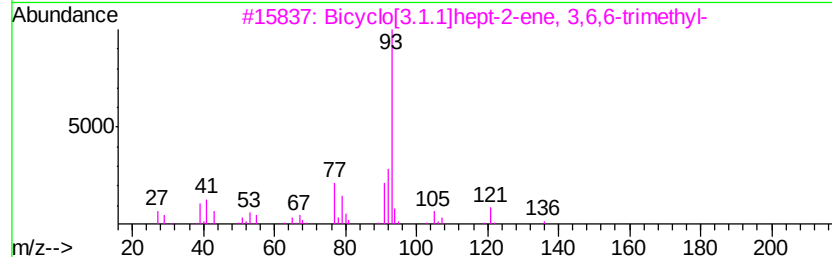
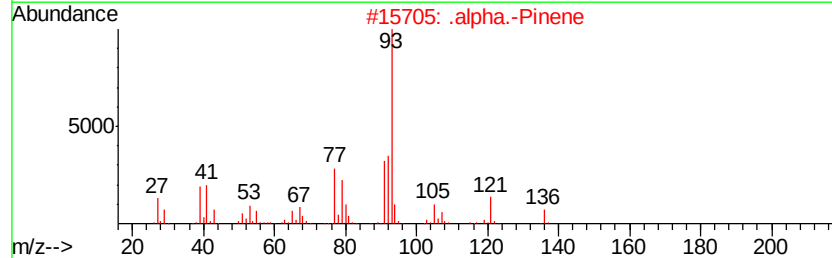
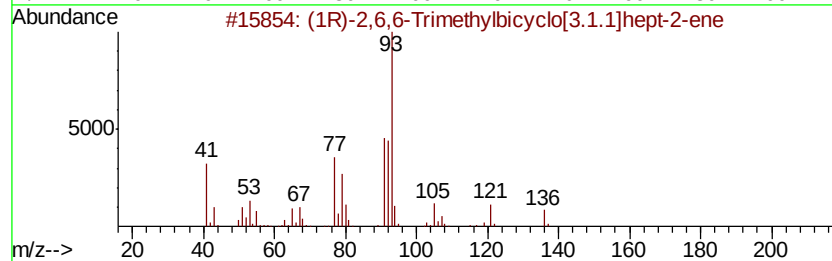
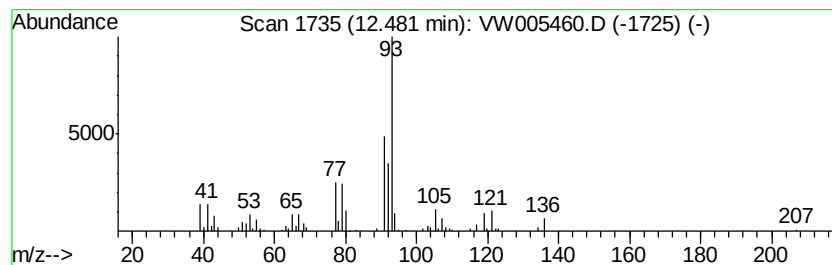
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 4

| R.T.  | EstConc     | Area  | Relative to ISTD | R.T.  |
|-------|-------------|-------|------------------|-------|
| 12.48 | 314.59 ug/l | 43476 | Chlorobenzene-d5 | 11.64 |

| Hit# | of | Tentative ID                                    | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------------------|-----|---------|-------------|------|
| 1    | 5  | (1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene    | 136 | C10H16  | 007785-70-8 | 97   |
| 2    |    | .alpha.-Pinene                                  | 136 | C10H16  | 000080-56-8 | 95   |
| 3    |    | Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-      | 136 | C10H16  | 004889-83-2 | 91   |
| 4    |    | Tricyclo[2.2.1.0(2,6)]heptane, 1,1,1-trimethyl- | 136 | C10H16  | 000508-32-7 | 91   |
| 5    |    | (1S)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene    | 136 | C10H16  | 007785-26-4 | 87   |



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Misc : 6.80G/5ML/MSVOA W/SOIL  
ALS Vial : 45 Sample Multiplier: 1

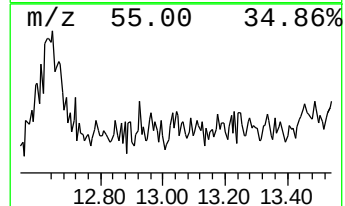
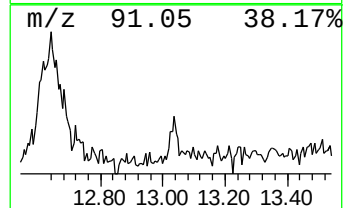
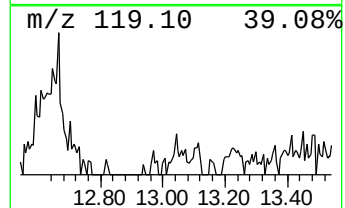
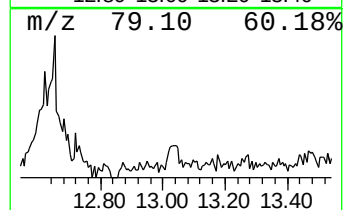
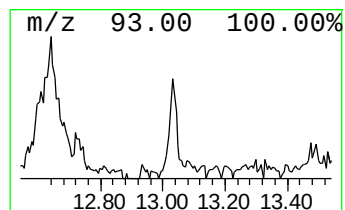
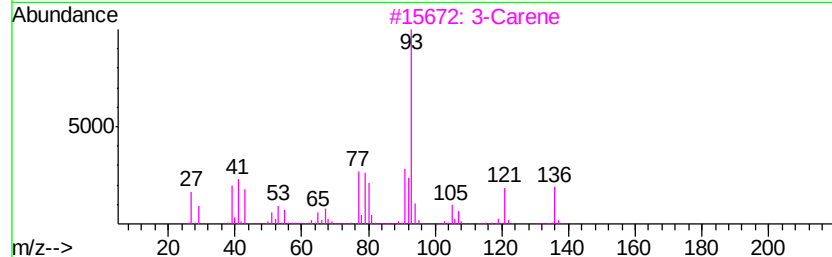
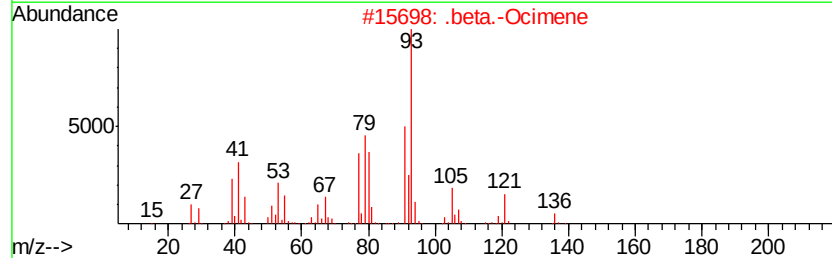
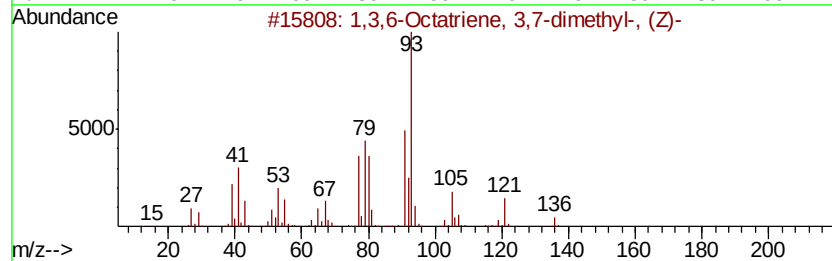
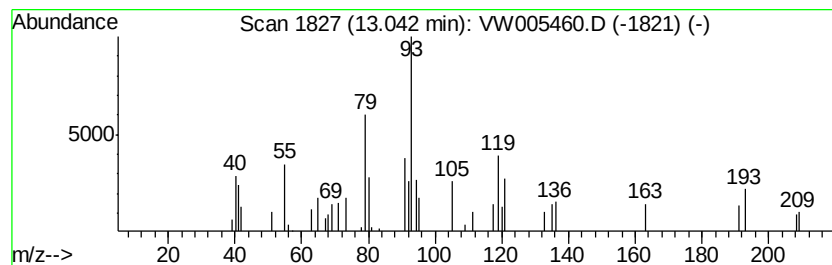
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Quant Title : SW846 8260

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

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Peak Number 4 1,3,6-Octatriene, 3,7-dimet... Concentration Rank 5

| R.T.      | EstConc                             | Area  | Relative to ISTD       | R.T.        |      |
|-----------|-------------------------------------|-------|------------------------|-------------|------|
| 13.04     | 157.42 ug/l                         | 11353 | 1,4-Dichlorobenzene-d4 | 13.58       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm                | CAS#        | Qual |
| 1         | 1,3,6-Octatriene, 3,7-dimethyl-,... | 136   | C10H16                 | 003338-55-4 | 81   |
| 2         | .beta.-Ocimene                      | 136   | C10H16                 | 013877-91-3 | 81   |
| 3         | 3-Carene                            | 136   | C10H16                 | 013466-78-9 | 53   |
| 4         | Bicyclo[2.2.1]heptane, 7,7-dimet... | 136   | C10H16                 | 000471-84-1 | 53   |
| 5         | 1,3,7-Octatriene, 3,7-dimethyl-     | 136   | C10H16                 | 000502-99-8 | 52   |



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ALS Vial : 45 Sample Multiplier: 1

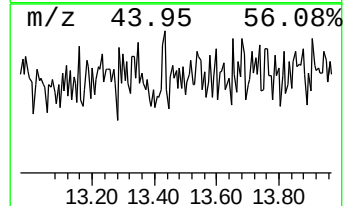
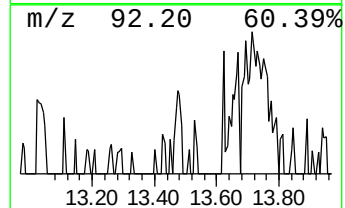
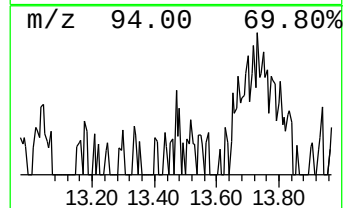
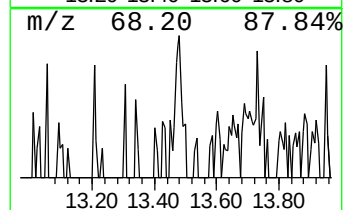
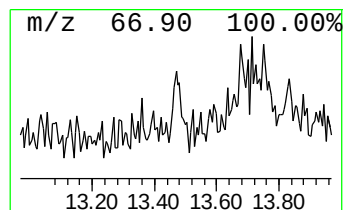
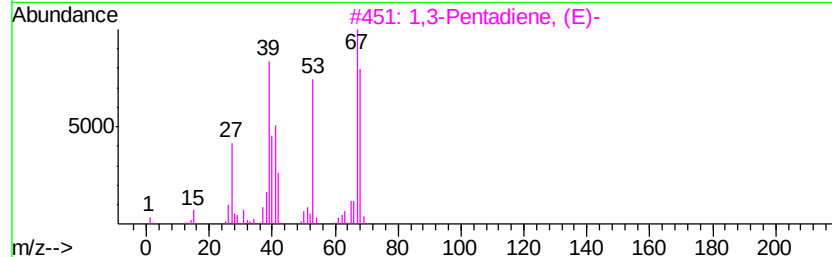
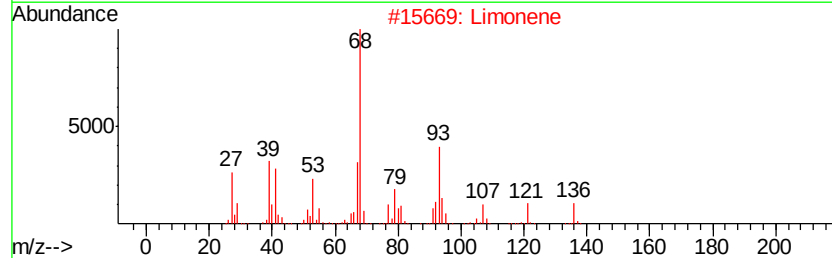
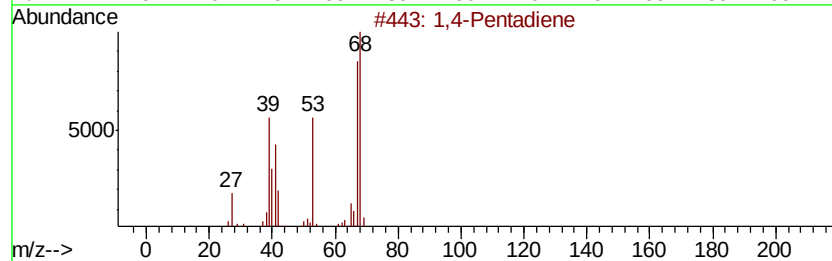
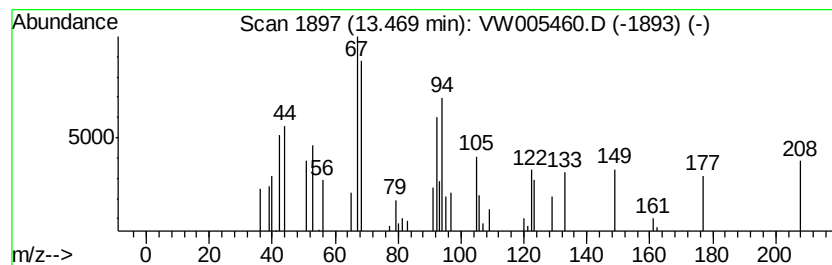
Instrument :  
MSVOA\_W  
ClientSampled :  
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 unknown13.47 Concentration Rank 6

| R.T.    | EstConc    | Area                 | Relative to ISTD       |         | R.T.        |      |
|---------|------------|----------------------|------------------------|---------|-------------|------|
| 13.47   | 50.00 ug/l | 3606                 | 1,4-Dichlorobenzene-d4 |         | 13.58       |      |
| Hit# of | 5          | Tentative ID         | MW                     | MolForm | CAS#        | Qual |
| 1       |            | 1,4-Pentadiene       | 68                     | C5H8    | 000591-93-5 | 43   |
| 2       |            | Limonene             | 136                    | C10H16  | 000138-86-3 | 43   |
| 3       |            | 1,3-Pentadiene, (E)- | 68                     | C5H8    | 002004-70-8 | 38   |
| 4       |            | 1,2-Pentadiene       | 68                     | C5H8    | 000591-95-7 | 38   |
| 5       |            | 1,3-Pentadiene       | 68                     | C5H8    | 000504-60-9 | 38   |



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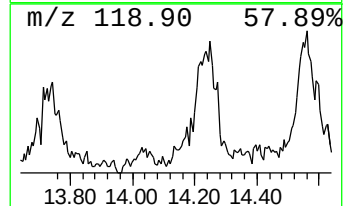
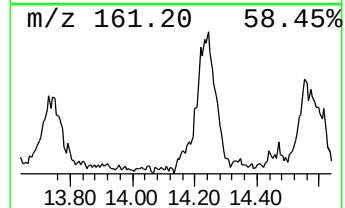
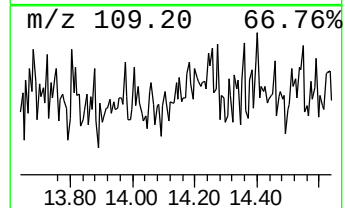
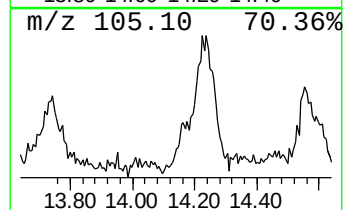
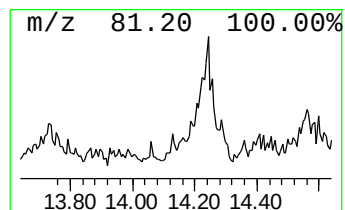
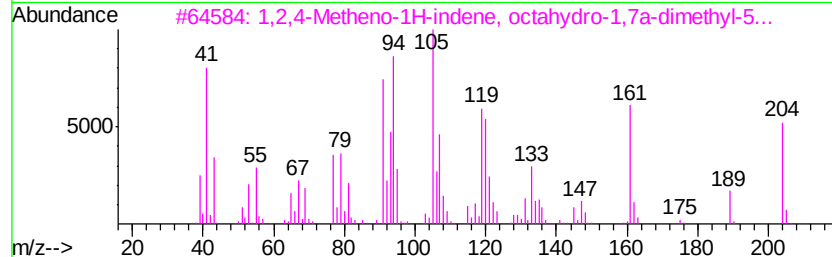
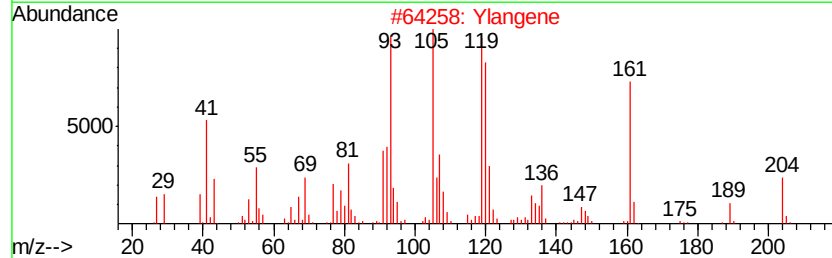
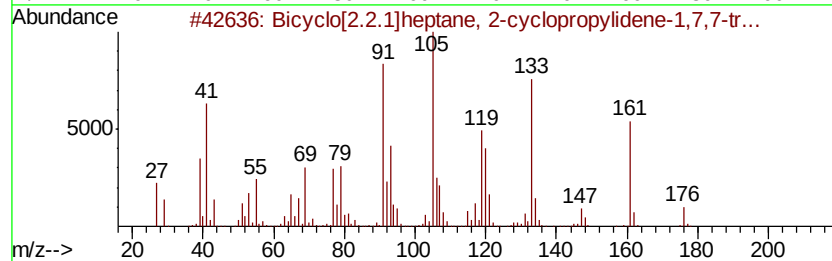
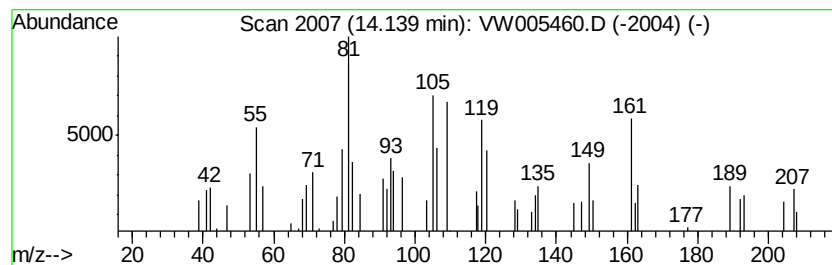
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 unknown14.14 Concentration Rank 10

| R.T.  | EstConc    | Area | Relative to ISTD       | R.T.  |
|-------|------------|------|------------------------|-------|
| 14.14 | 33.39 ug/l | 2408 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# | of | Tentative ID                                               | MW  | MolForm | CAS#         | Qual |
|------|----|------------------------------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Bicyclo[2.2.1]heptane, 2-cyclopropylidene-1,7,7-trimethyl- | 176 | C13H20  | 1000159-45-7 | 27   |
| 2    |    | Ylangene                                                   | 204 | C15H24  | 014912-44-8  | 25   |
| 3    |    | 1,2,4-Metheno-1H-indene, octahydro-1,7a-dimethyl-5H-       | 204 | C15H24  | 022469-52-9  | 25   |
| 4    |    | 1H-Cyclopenta[1,3]cyclopropa[1,2-b]indole                  | 204 | C15H24  | 013744-15-5  | 22   |
| 5    |    | 2,4-Quinolinediol                                          | 161 | C9H7NO2 | 000086-95-3  | 22   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091718\  
Data File : VW005460.D  
Acq On : 18 Sep 2018 05:01  
Operator : SY/AP  
Sample : J4944-01  
Misc : 6.80G/5ML/MSVOA W/SOIL  
ALS Vial : 45 Sample Multiplier: 1

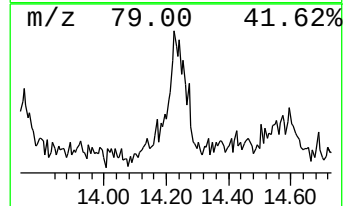
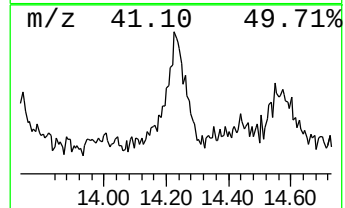
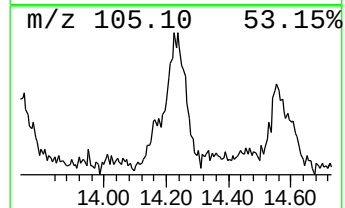
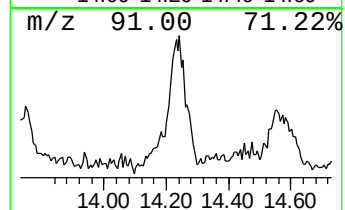
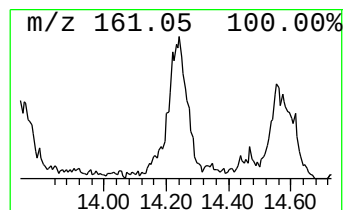
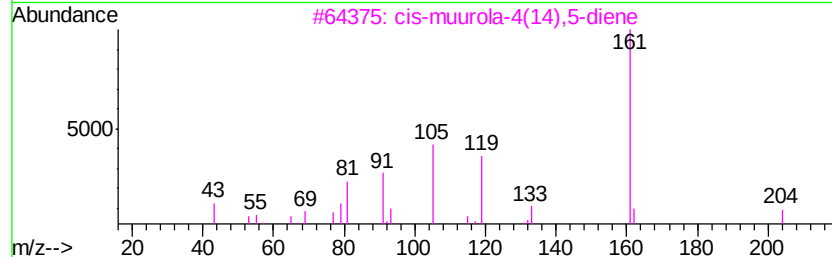
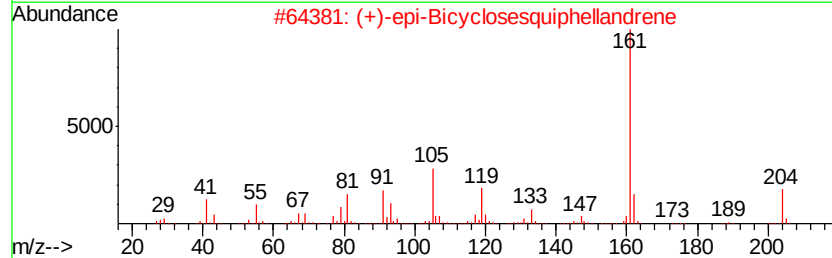
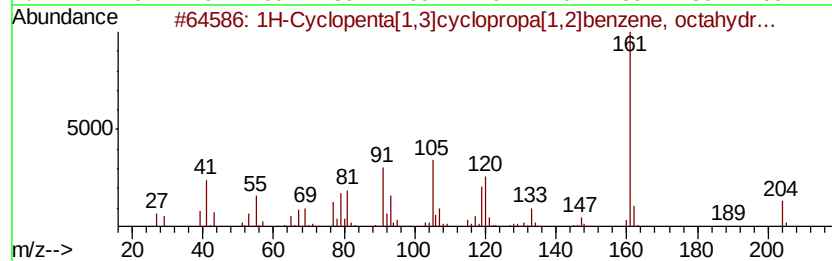
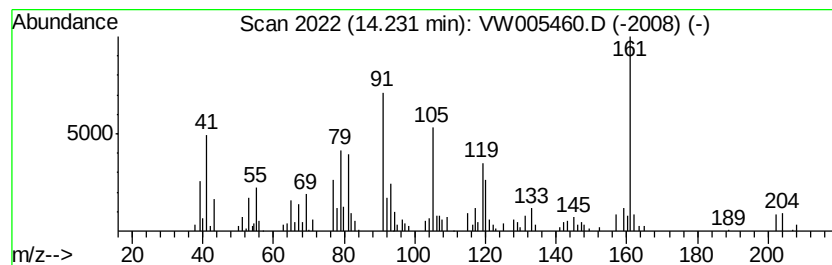
Instrument :  
MSVOA\_W  
ClientSampled :  
RB48377RT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 8 1H-Cyclopenta[1,3]cycloprop... Concentration Rank 2

| R.T.    | EstConc     | Area                                 | Relative to ISTD       | R.T.            |
|---------|-------------|--------------------------------------|------------------------|-----------------|
| 14.23   | 778.41 ug/l | 56139                                | 1,4-Dichlorobenzene-d4 | 13.58           |
| Hit# of | 5           | Tentative ID                         | MW MolForm             | CAS# Qual       |
| 1       |             | 1H-Cyclopenta[1,3]cyclopropa[1,2]... | 204 C15H24             | 013744-15-5 86  |
| 2       |             | (+)-epi-Bicyclosquiphellandrene      | 204 C15H24             | 054274-73-6 60  |
| 3       |             | cis-muurolo-4(14),5-diene            | 204 C15H24             | 1000365-95-5 49 |
| 4       |             | 3a,7-Methano-3aH-cyclopentacyclo...  | 204 C15H24             | 000469-92-1 43  |
| 5       |             | 1-(2-Methoxymethyl-3,5,6-trimeth...  | 208 C13H20O2           | 1000202-04-5 43 |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091718\  
Data File : VW005460.D  
Acq On : 18 Sep 2018 05:01  
Operator : SY/AP  
Sample : J4944-01  
Misc : 6.80G/5ML/MSVOA W/SOIL  
ALS Vial : 45 Sample Multiplier: 1

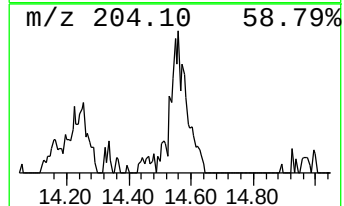
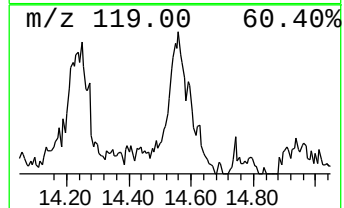
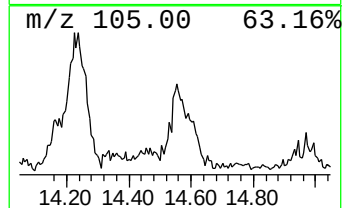
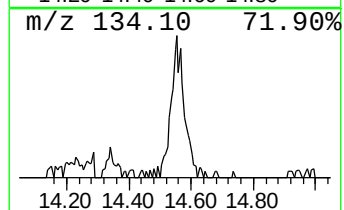
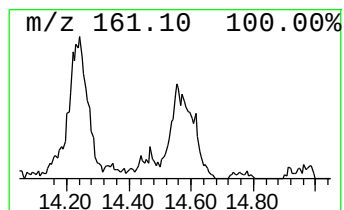
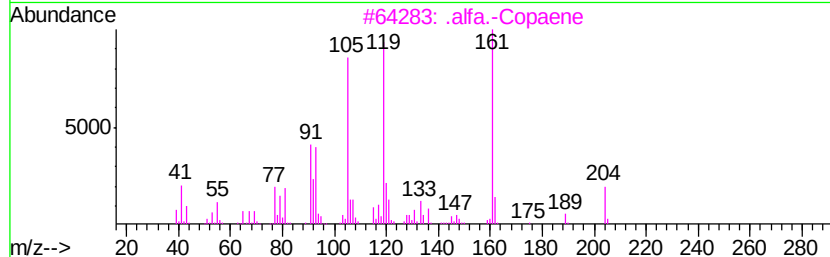
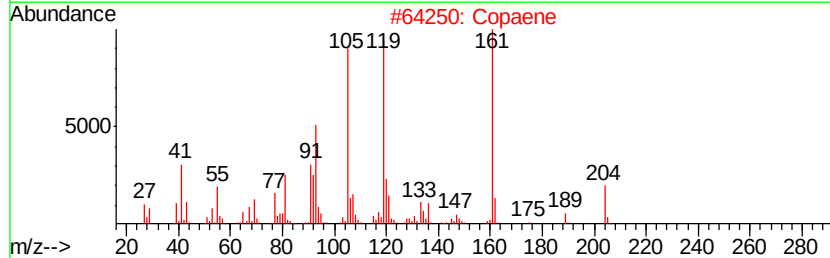
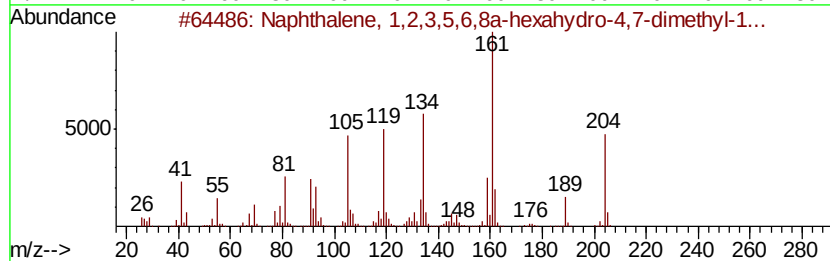
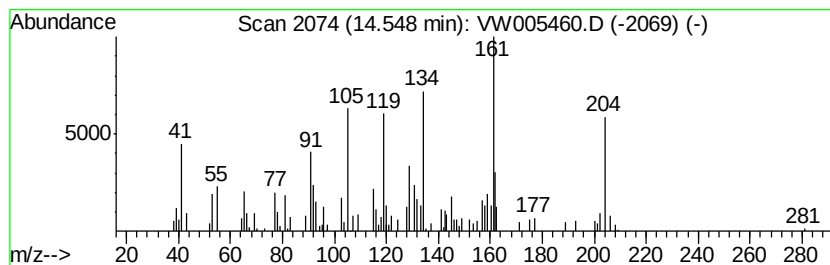
Instrument :  
MSVOA\_W  
ClientSampled :  
RB48377RT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260

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

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Peak Number 9 Naphthalene, 1,2,3,5,6,8a-h... Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD       | R.T.      |
|---------|-------------------------------------|--------------|------------------------|-----------|
| 14.55   | 1284.33 ug/l                        | 92626        | 1,4-Dichlorobenzene-d4 | 13.58     |
| Hit# of | 5                                   | Tentative ID | MW MolForm             | CAS# Qual |
| 1       | Naphthalene, 1,2,3,5,6,8a-hexahy... | 204 C15H24   | 000483-76-1            | 83        |
| 2       | Copaene                             | 204 C15H24   | 003856-25-5            | 60        |
| 3       | .alfa.-Copaene                      | 204 C15H24   | 1000360-33-0           | 55        |
| 4       | Naphthalene, 1,2,4a,5,6,8a-hexah... | 204 C15H24   | 000483-75-0            | 55        |
| 5       | .gamma.-Muurolene                   | 204 C15H24   | 030021-74-0            | 53        |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW091718\  
Data File : VW005460.D  
Acq On : 18 Sep 2018 05:01  
Operator : SY/AP  
Sample : J4944-01  
Misc : 6.80G/5ML/MSVOA W/SOIL  
ALS Vial : 45 Sample Multiplier: 1

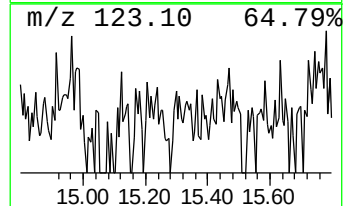
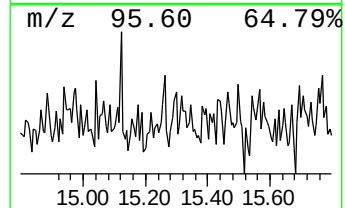
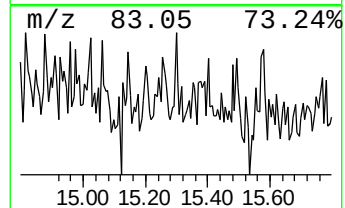
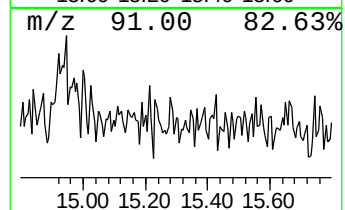
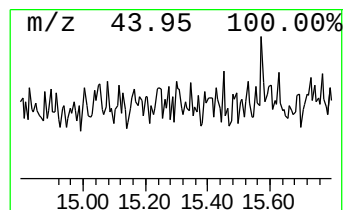
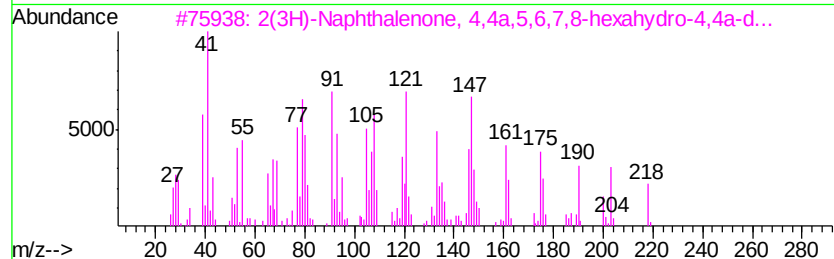
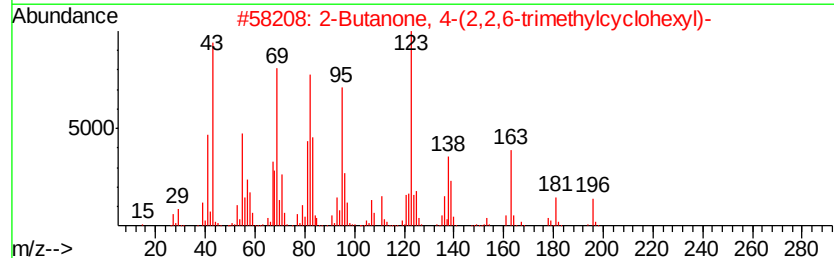
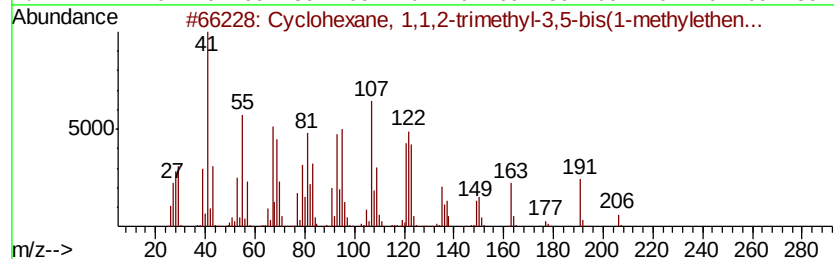
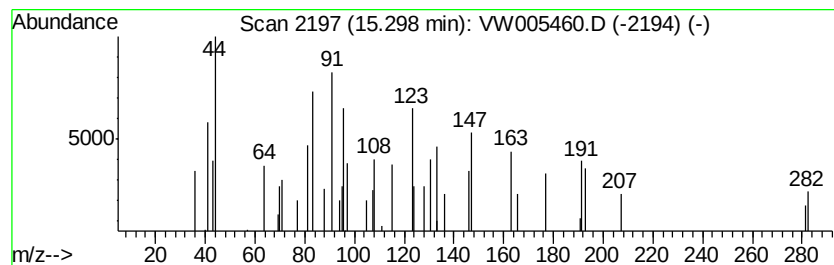
Instrument :  
MSVOA\_W  
ClientSampleId :  
RB48377RT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260

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

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Peak Number 10 unknown15.30 Concentration Rank 9

| R.T.    | EstConc    | Area                                | Relative to ISTD       | R.T.            |
|---------|------------|-------------------------------------|------------------------|-----------------|
| 15.30   | 34.64 ug/l | 2498                                | 1,4-Dichlorobenzene-d4 | 13.58           |
| Hit# of | 5          | Tentative ID                        | MW MolForm             | CAS# Qual       |
| 1       |            | Cyclohexane, 1,1,2-trimethyl-3,5... | 206 C15H26             | 062337-97-7 16  |
| 2       |            | 2-Butanone, 4-(2,2,6-trimethylcy... | 196 C13H24O            | 006138-85-8 10  |
| 3       |            | 2(3H)-Naphthalenone, 4,4a,5,6,7...  | 218 C15H22O            | 091416-23-8 10  |
| 4       |            | 4-Cycloocten-1-one, 8-(4-octen-4... | 234 C16H26O            | 1000152-01-9 10 |
| 5       |            | Bicyclo[4.3.0]nonane, 3-methylene-  | 136 C10H16             | 1000152-00-6 9  |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_W\DATA\VW091718\  
Data File : VW005460.D  
Acq On : 18 Sep 2018 05:01  
Operator : SY/AP  
Sample : J4944-01  
Misc : 6.80G/5ML/MSVOA\_W/SOIL  
ALS Vial : 45 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
RB48377RT

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.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 |
| unknown2.25          | 2.25  | 45.1    | ug/l  | 8692     | 1                     | 7.96  | 9644 | 50.0 |
| (1R)-2,6,6-Trimet... | 12.48 | 314.6   | ug/l  | 43476    | 3                     | 11.64 | 6910 | 50.0 |
| 1,3,6-Octatriene,... | 13.04 | 157.4   | ug/l  | 11353    | 4                     | 13.58 | 3606 | 50.0 |
| unknown13.47         | 13.47 | 50.0    | ug/l  | 3606     | 4                     | 13.58 | 3606 | 50.0 |
| unknown14.14         | 14.14 | 33.4    | ug/l  | 2408     | 4                     | 13.58 | 3606 | 50.0 |
| 1H-Cyclopenta[1,3... | 14.23 | 778.4   | ug/l  | 56139    | 4                     | 13.58 | 3606 | 50.0 |
| Naphthalene, 1,2,... | 14.55 | 1284.3  | ug/l  | 92626    | 4                     | 13.58 | 3606 | 50.0 |
| unknown15.30         | 15.30 | 34.6    | ug/l  | 2498     | 4                     | 13.58 | 3606 | 50.0 |