

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031220\  
 Data File : VV014867.D  
 Acq On : 12 Mar 2020 14:52  
 Operator : SY/MD  
 Sample : PB147467TB  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Mar 13 03:32:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM030620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 13 03:30:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 398050   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 389359   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 188845   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 118474   | 43.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 87.96%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 90711    | 42.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 85.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 149690   | 33.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.88%  |
| 21) 2-Butanone-d5              | 3.92    | 46    | 167347   | 83.30    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 83.30%  |
| 24) Chloroform-d               | 4.38    | 84    | 243180   | 47.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.36%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 163222   | 47.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.22%  |
| 32) Benzene-d6                 | 5.08    | 84    | 500557   | 48.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.38%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 153567   | 45.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 90.14%  |
| 41) Toluene-d8                 | 7.34    | 98    | 481954   | 47.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.74%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 75854    | 45.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.18%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 161615   | 106.82   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 106.82% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 215464   | 45.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.94%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 194562   | 51.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 103.96% |

## Target Compounds

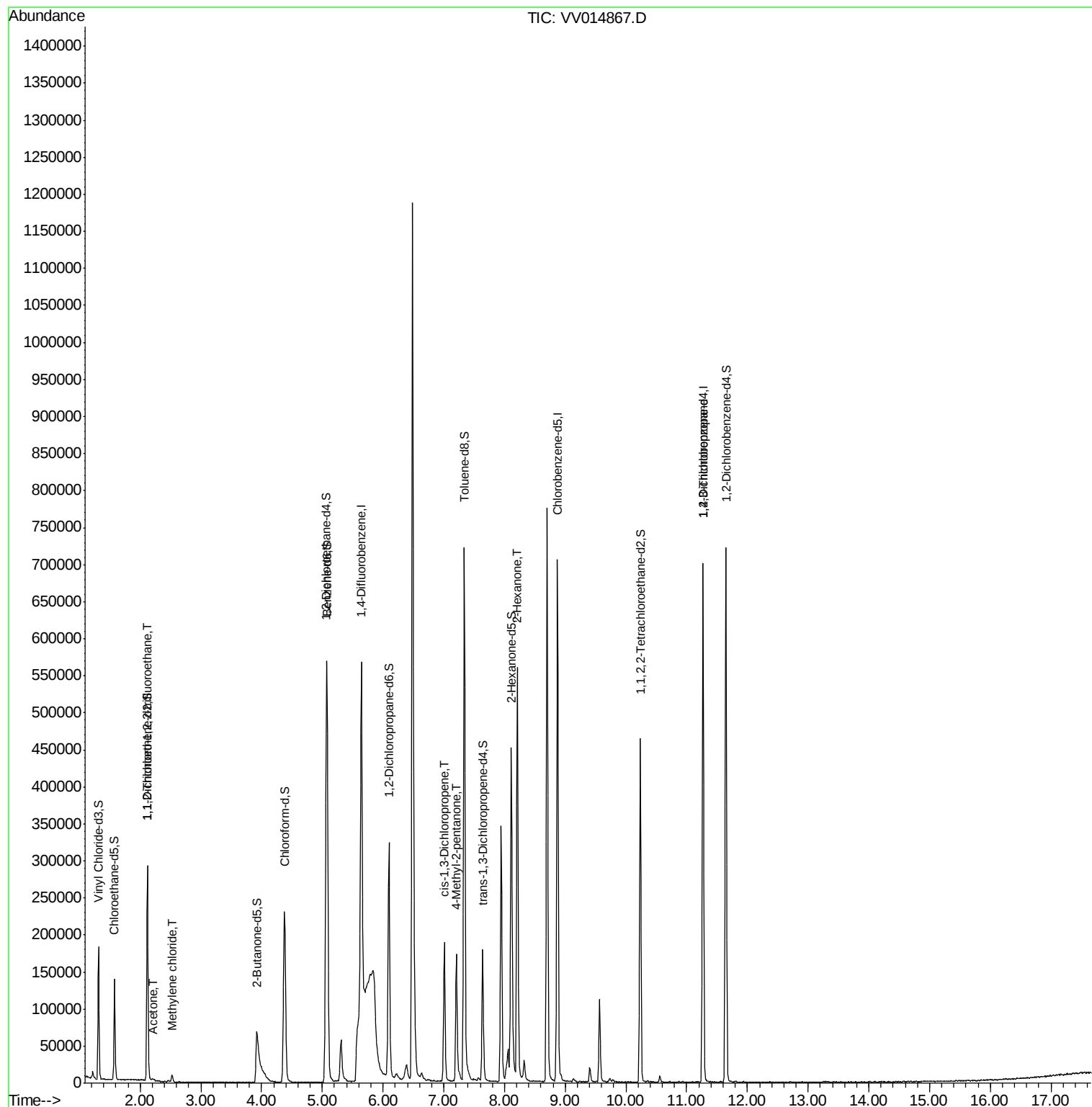
|                                |       |     |       |               | Ovalue |
|--------------------------------|-------|-----|-------|---------------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 1639  | 0.742 ug/L #  | 19     |
| 13) Acetone                    | 2.20  | 43  | 2566  | 1.530 ug/L    | 96     |
| 16) Methylene chloride         | 2.52  | 84  | 4304  | 1.466 ug/L    | 95     |
| 39) cis-1,3-Dichloropropene    | 7.01  | 75  | 4359  | 0.912 ug/L #  | 77     |
| 40) 4-Methyl-2-pentanone       | 7.21  | 43  | 64592 | 14.623 ug/L # | 52     |
| 48) 2-Hexanone                 | 8.21  | 43  | 76945 | 22.148 ug/L # | 1      |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75  | 17694 | 4.545 ug/L #  | 83     |

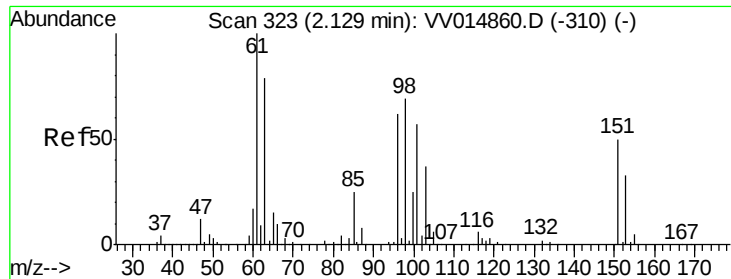
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB147467TB  
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ALS Vial : 9 Sample Multiplier: 1

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MSVOA\_V  
ClientSampleId :

Quant Time: Mar 13 03:32:46 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM030620WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 13 03:30:28 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.742 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014867.D

Acq: 12 Mar 2020 14:52

Instrument :

MSVOA\_V

ClientSampled :

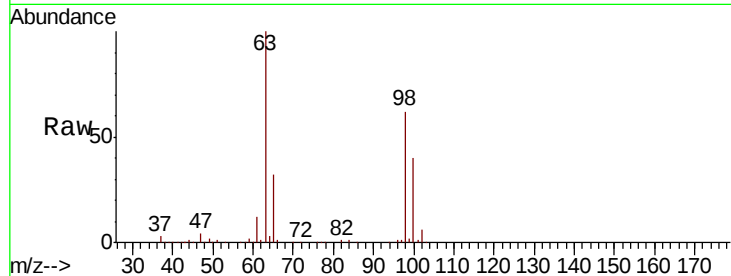
Tot Ion:101 Resp: 1639

Ion Ratio Lower Upper

101 100

85 2.7 35.0 52.6#

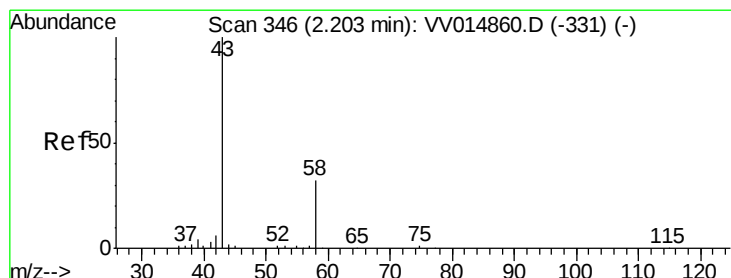
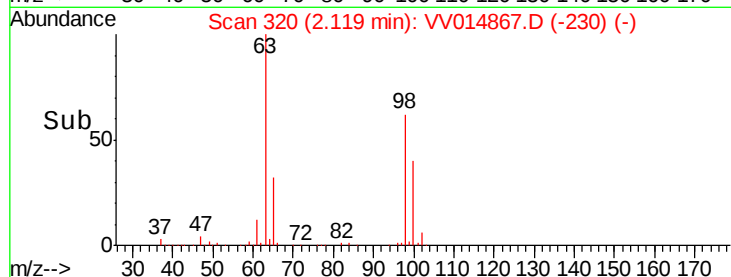
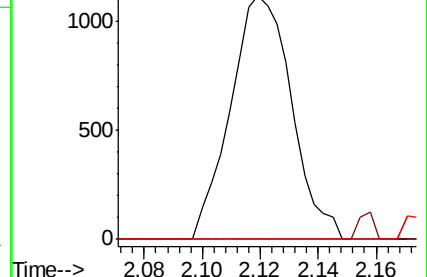
151 2.5 66.4 99.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 1.530 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.01 min

Lab File: VV014867.D

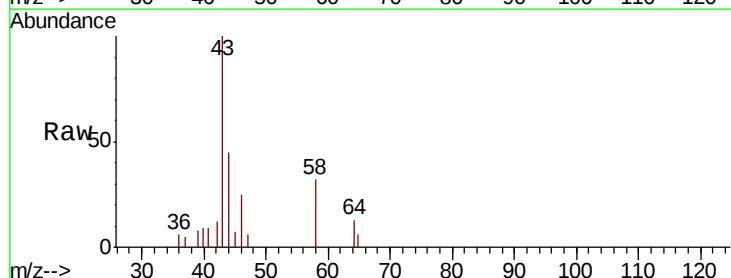
Acq: 12 Mar 2020 14:52

Tgt Ion: 43 Resp: 2566

Ion Ratio Lower Upper

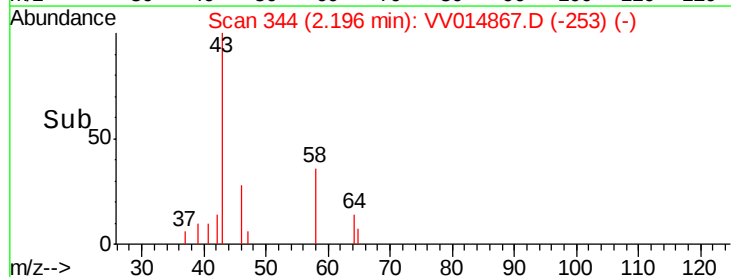
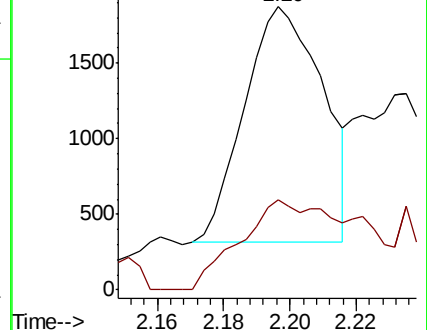
43 100

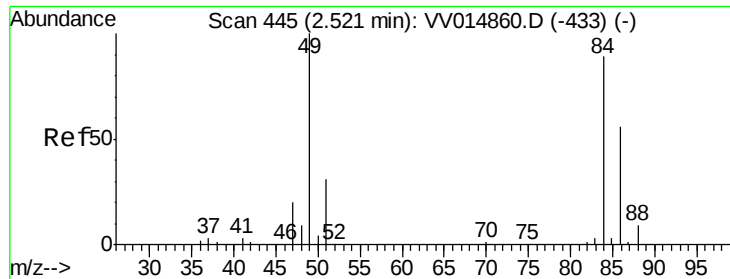
58 28.9 0.0 62.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

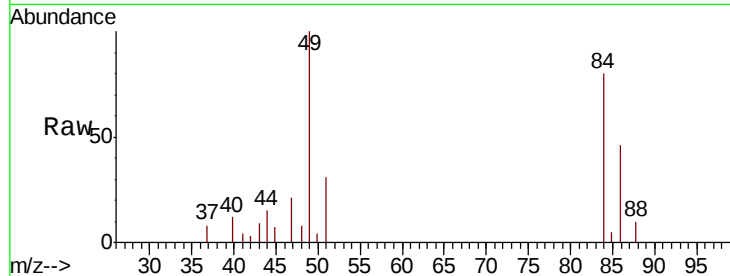




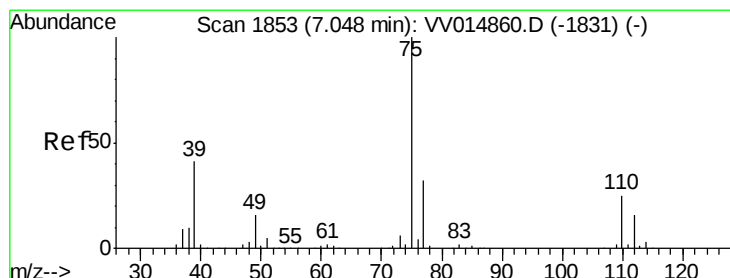
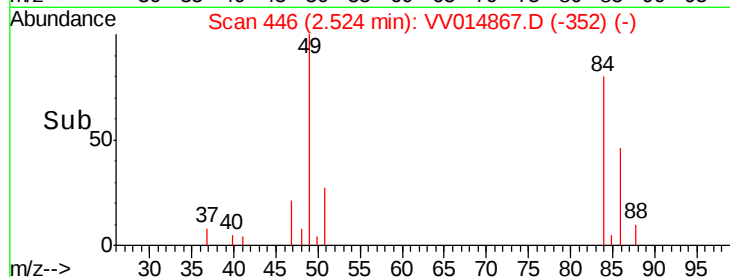
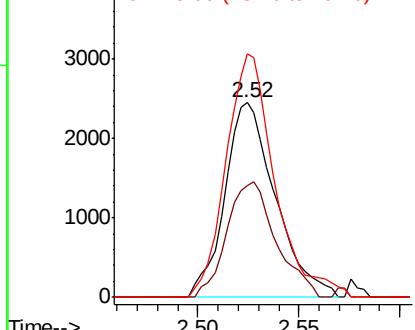
#16  
Methvlene chloride  
Concen: 1.466 ug/L  
RT: 2.52 min Scan# 446  
Delta R.T. 0.00 min  
Lab File: VV014867.D  
Acq: 12 Mar 2020 14:52

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 84 Resp: 4304  
Ion Ratio Lower Upper  
84 100  
86 57.5 47.3 87.9  
49 125.2 88.7 164.7

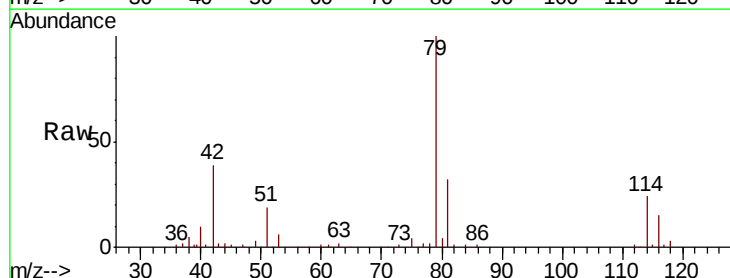


Abundance Ion 84.00 (83.70 to 84.70): VV0  
Ion 86.00 (85.70 to 86.70): VV0  
Ion 49.00 (48.70 to 49.70): VV0

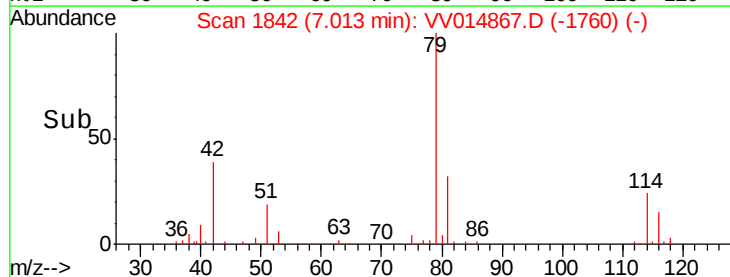
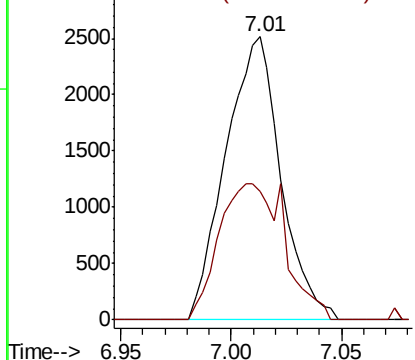


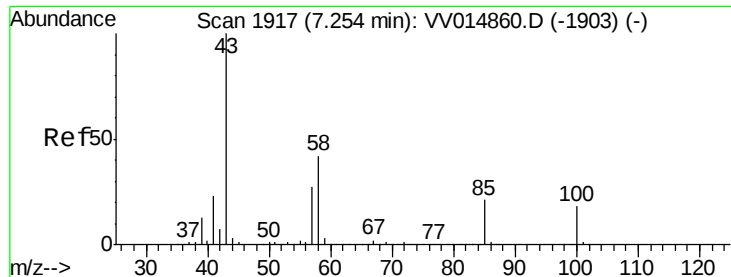
#39  
cis-1,3-Dichloropropene  
Concen: 0.912 ug/L  
RT: 7.01 min Scan# 1842  
Delta R.T. -0.04 min  
Lab File: VV014867.D  
Acq: 12 Mar 2020 14:52

Tgt Ion: 75 Resp: 4359  
Ion Ratio Lower Upper  
75 100  
77 45.5 22.8 42.4#



Abundance Ion 75.00 (74.70 to 75.70): VV0  
Ion 77.00 (76.70 to 77.70): VV0

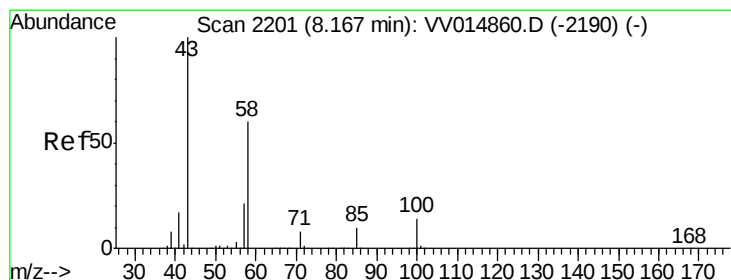
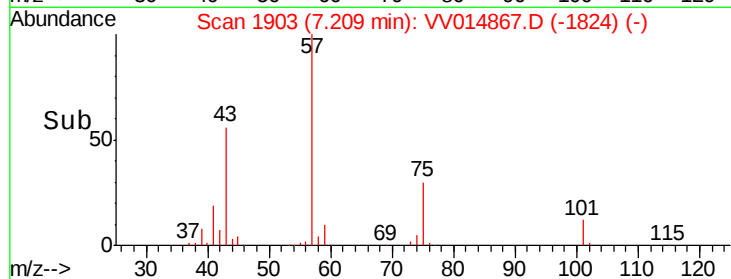
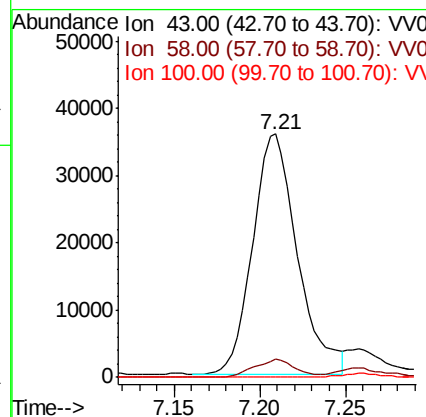
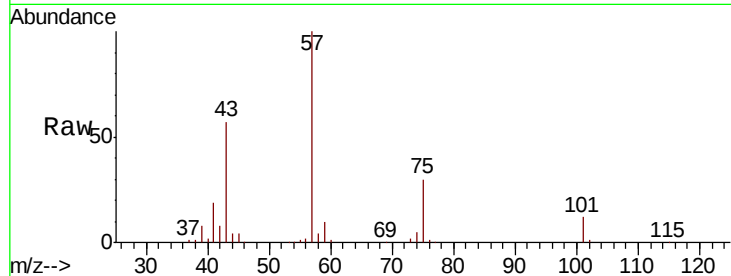




#40  
4-Methyl-2-pentanone  
Concen: 14.623 ug/L  
RT: 7.21 min Scan# 1903  
Delta R.T. -0.05 min  
Lab File: VV014867.D  
Acq: 12 Mar 2020 14:52

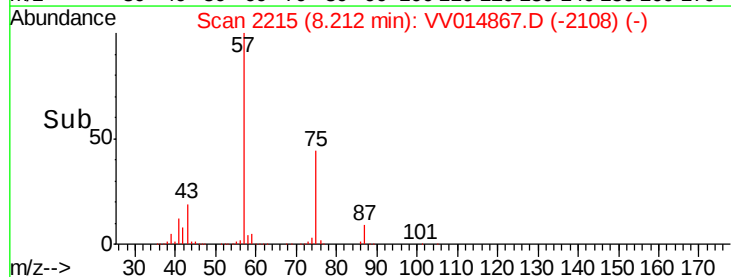
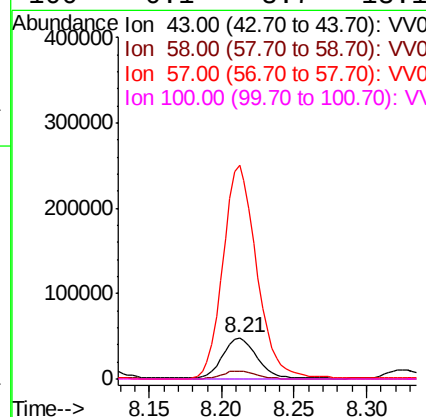
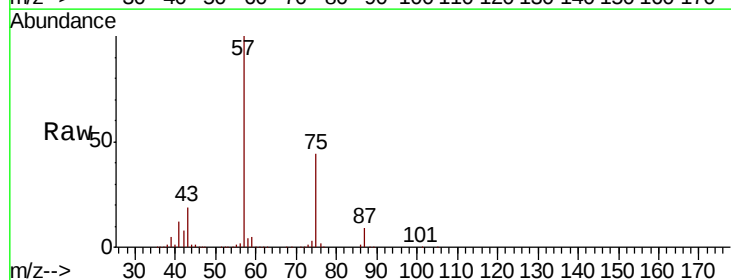
Instrument :  
MSVOA\_V  
ClientSampleId :

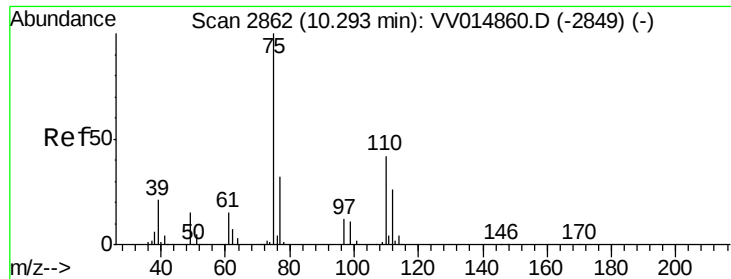
Tot Ion: 43 Resp: 64592  
Ion Ratio Lower Upper  
43 100  
58 6.8 31.0 46.4#  
100 0.0 11.2 16.8#



#48  
2-Hexanone  
Concen: 22.148 ug/L  
RT: 8.21 min Scan# 2215  
Delta R.T. 0.04 min  
Lab File: VV014867.D  
Acq: 12 Mar 2020 14:52

Tgt Ion: 43 Resp: 76945  
Ion Ratio Lower Upper  
43 100  
58 19.4 43.3 64.9#  
57 529.2 15.6 23.4#  
100 0.1 8.7 13.1#





#59

1,2,3-Trichloropropane

Concen: 4.545 ug/L

RT: 11.27 min Scan# 3165

Delta R.T. 0.97 min

Lab File: VV014867.D

Acq: 12 Mar 2020 14:52

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 75 Resp: 17694

Ion Ratio Lower Upper

75 100

77 41.7 25.6 38.4#

