

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011521\  
 Data File : VW017904.D  
 Acq On : 15 Jan 2021 17:46  
 Operator : SY/VA  
 Sample : M1099-15  
 Misc : 5.52G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F1C11

Quant Time: Jan 18 02:09:52 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Jan 18 02:07:49 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 150879   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 115572   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.55 | 152  | 34380    | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 60204    | 25.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.16%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 49942    | 25.92    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.68%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 75883    | 18.66    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 74.64%   |
| 20) 2-Butanone-d5              | 7.07   | 46    | 28485    | 75.28    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 150.56%# |
| 24) Chloroform-d               | 7.65   | 84    | 100315   | 25.44    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 101.76%  |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 65347    | 32.02    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 128.08%  |
| 29) Benzene-d6                 | 8.27   | 84    | 194965   | 29.95    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 119.80%  |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 59476    | 33.14    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 132.56%# |
| 37) Toluene-d8                 | 10.32  | 98    | 156341   | 25.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 100.00%  |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 21164    | 26.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 105.84%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 17601    | 78.10    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 156.20%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 46130    | 34.63    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 138.52%# |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 31630    | 26.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 105.68%  |

## Target Compounds

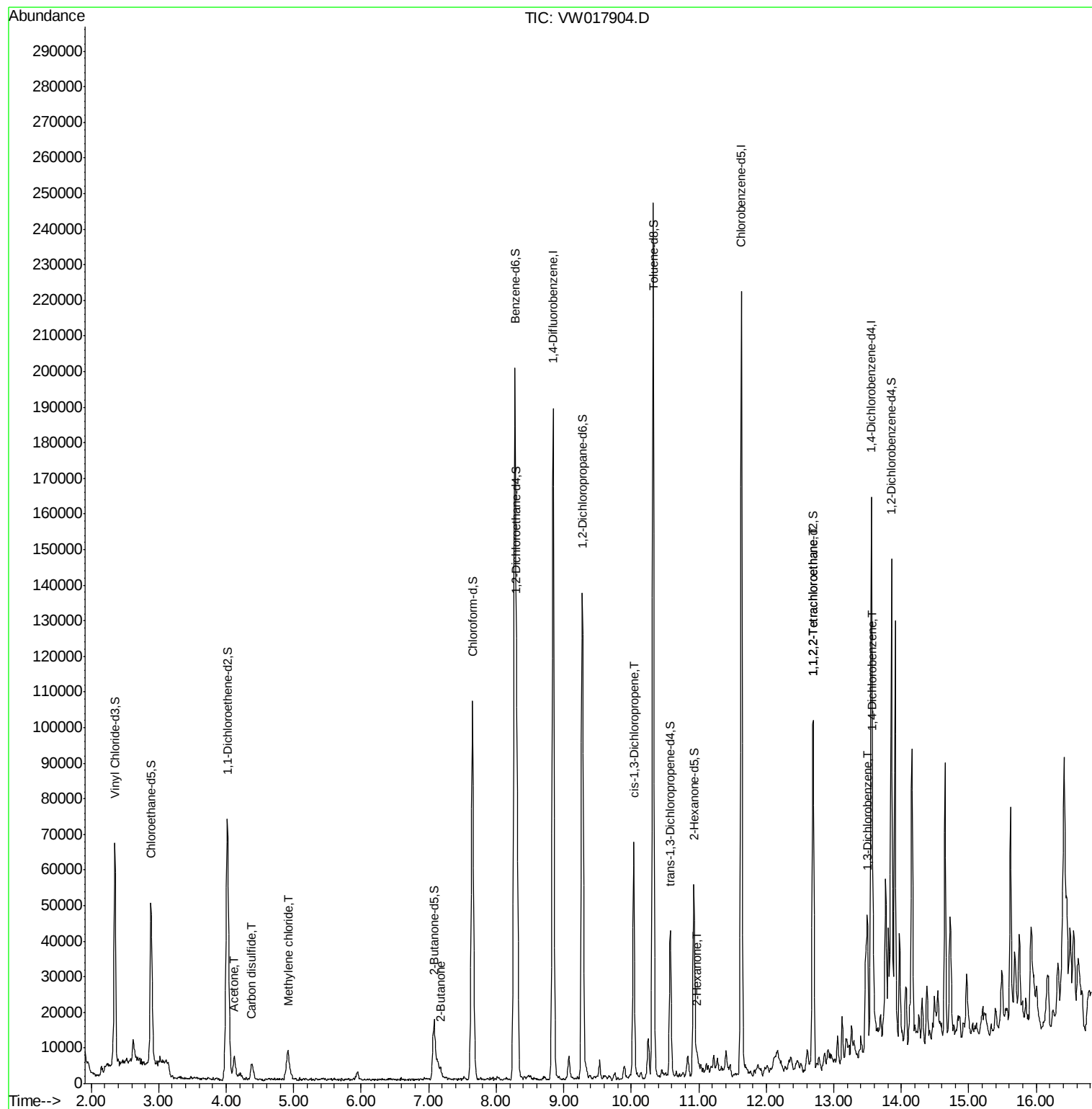
|                               |       |     |       |        | Ovalue    |
|-------------------------------|-------|-----|-------|--------|-----------|
| 13) Acetone                   | 4.12  | 43  | 10807 | 33.076 | ug/L 94   |
| 14) Carbon disulfide          | 4.39  | 76  | 9568  | 1.723  | ug/L 99   |
| 16) Methylene chloride        | 4.91  | 84  | 5535  | 2.565  | ug/L 83   |
| 21) 2-Butanone                | 7.18  | 43  | 1278  | 2.908  | ug/L 77   |
| 42) cis-1,3-Dichloropropene   | 10.04 | 75  | 2150  | 0.864  | ug/L # 54 |
| 49) 2-Hexanone                | 10.98 | 43  | 413   | 0.768  | ug/L # 75 |
| 58) 1,1,2,2-Tetrachloroethane | 12.70 | 83  | 603   | 0.466  | ug/L # 74 |
| 63) 1,3-Dichlorobenzene       | 13.50 | 146 | 10703 | 5.044  | ug/L 92   |
| 64) 1,4-Dichlorobenzene       | 13.58 | 146 | 9552  | 4.479  | ug/L 91   |

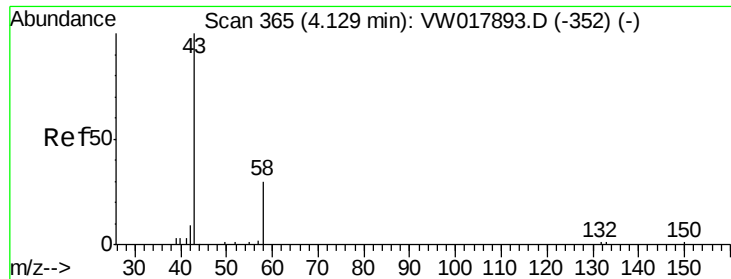
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M1099-15  
Misc : 5.52G/10ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
F1C11

Quant Time: Jan 18 02:09:52 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM122420S.M  
Quant Title : VOC Analysis  
QLast Update : Mon Jan 18 02:07:49 2021  
Response via : Initial Calibration





#13

Acetone

Concen: 33.076 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW017904.D

Acq: 15 Jan 2021 17:46

Instrument :

MSVOA\_W

ClientSampleId :

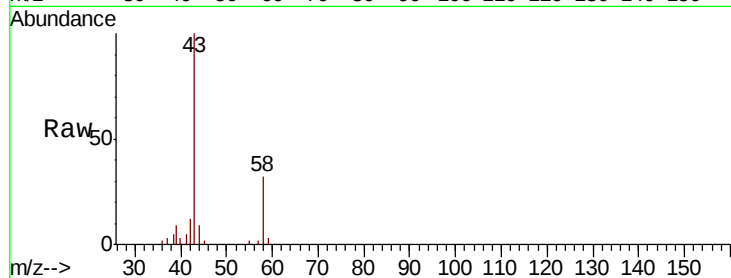
F1C11

Tot Ion: 43 Resp: 10807

Ion Ratio Lower Upper

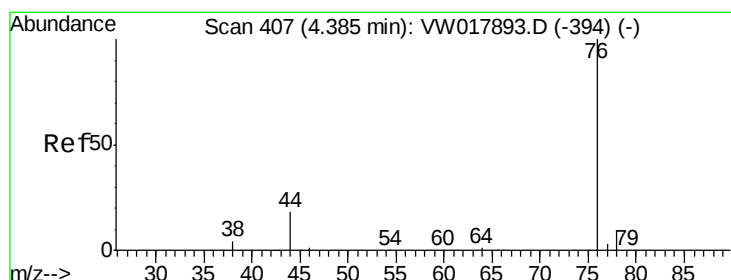
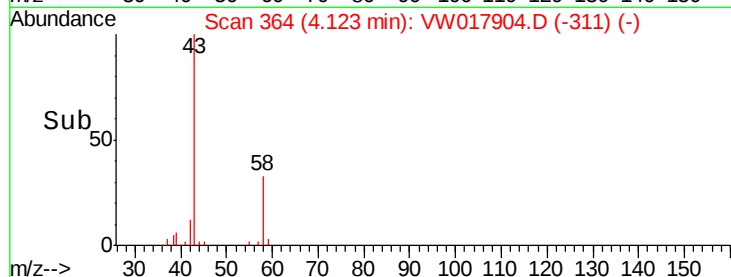
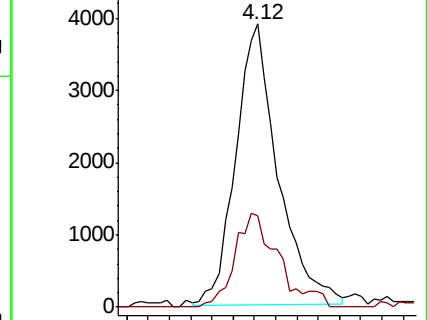
43 100

58 30.9 0.0 68.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.723 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW017904.D

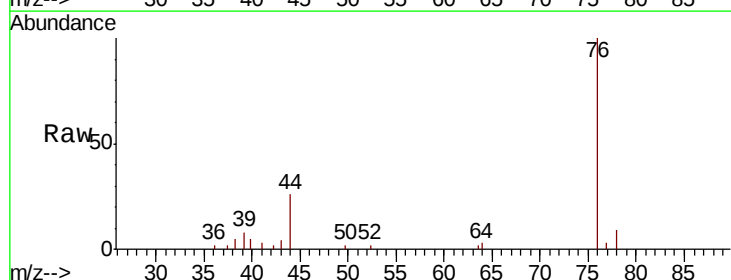
Acq: 15 Jan 2021 17:46

Tgt Ion: 76 Resp: 9568

Ion Ratio Lower Upper

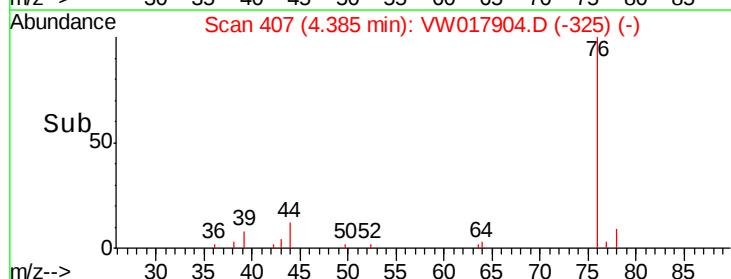
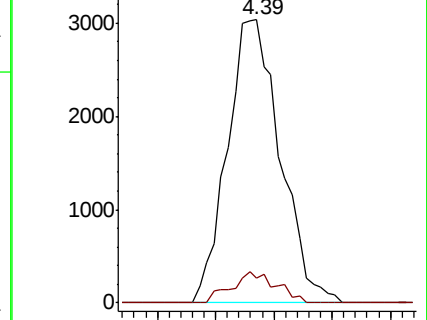
76 100

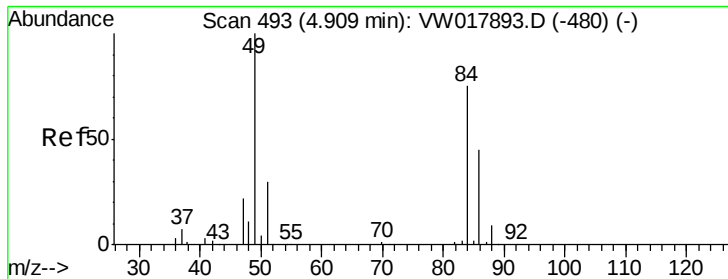
78 9.0 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

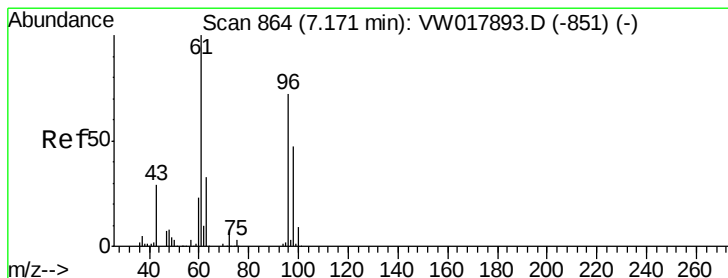
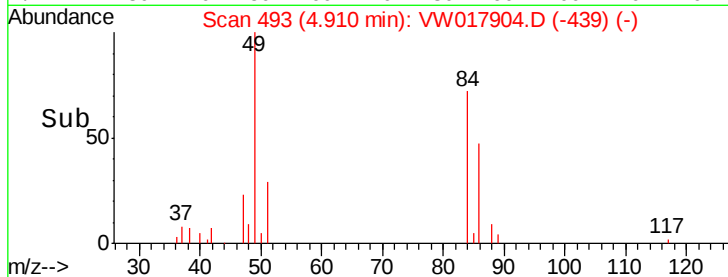
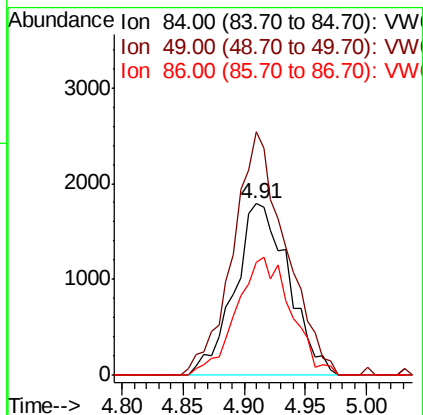
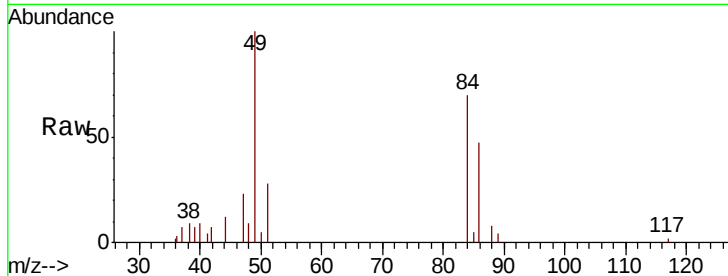




#16  
Methylene chloride  
Concen: 2.565 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. 0.00 min  
Lab File: VW017904.D  
Acq: 15 Jan 2021 17:46

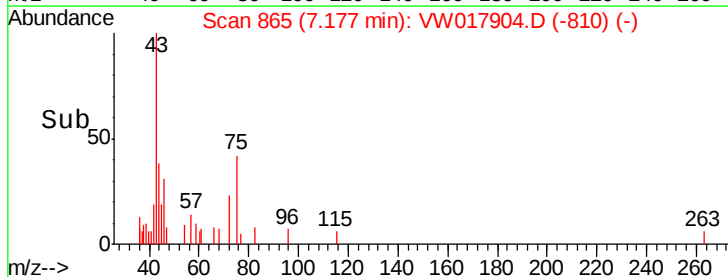
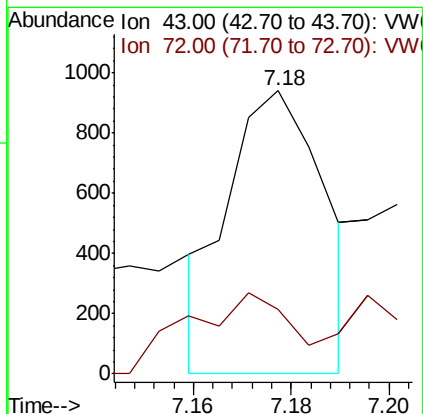
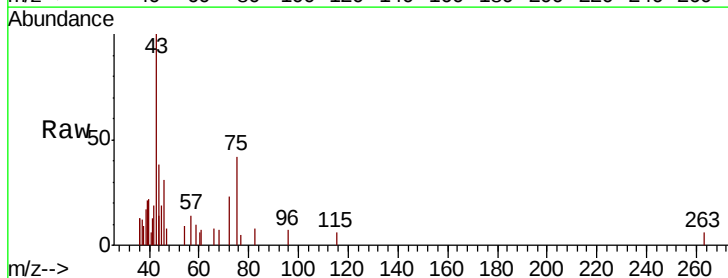
Instrument :  
MSVOA\_W  
ClientSampled :  
F1C11

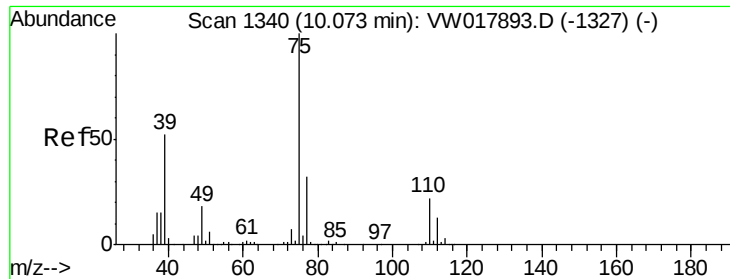
Tot Ion: 84 Resp: 5535  
Ion Ratio Lower Upper  
84 100  
49 142.0 81.2 150.8  
86 66.1 44.5 82.7



#21  
2-Butanone  
Concen: 2.908 ug/L  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW017904.D  
Acq: 15 Jan 2021 17:46

Tgt Ion: 43 Resp: 1278  
Ion Ratio Lower Upper  
43 100  
72 16.6 14.4 43.2

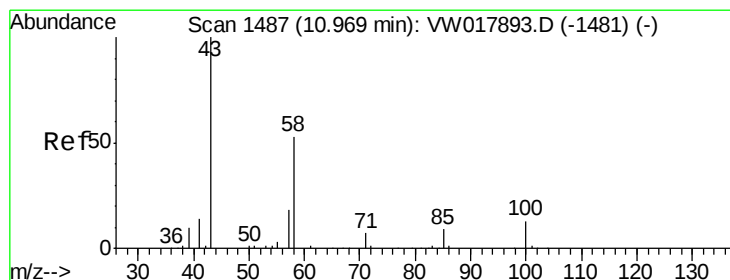
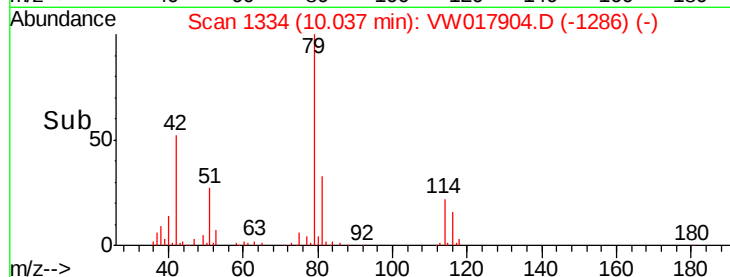
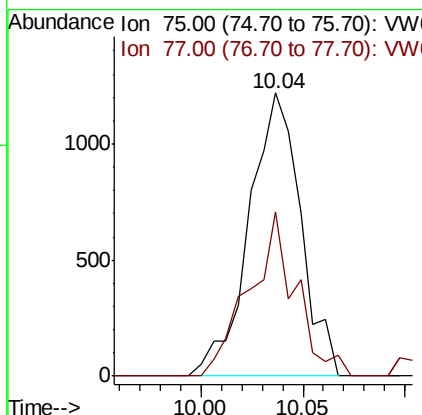
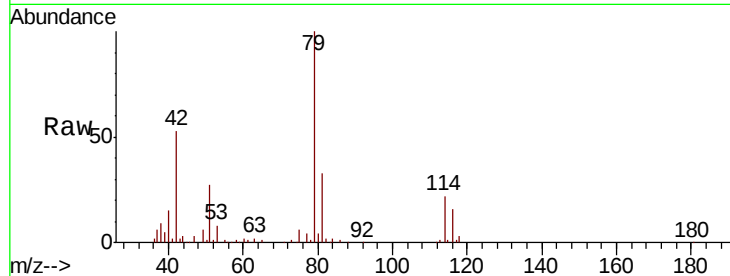




#42  
 cis-1,3-Dichloropropene  
 Concen: 0.864 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW017904.D  
 Acq: 15 Jan 2021 17:46

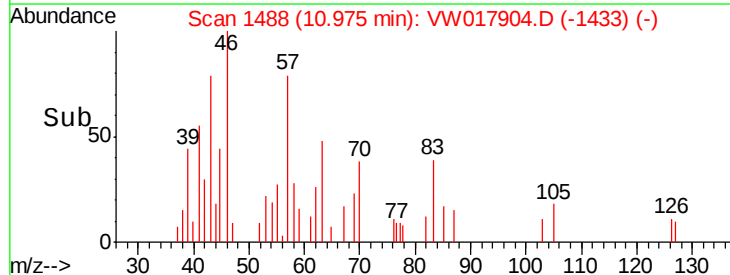
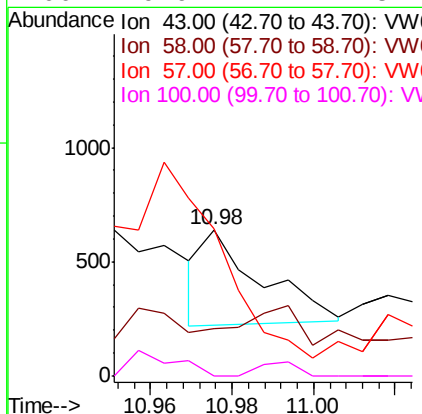
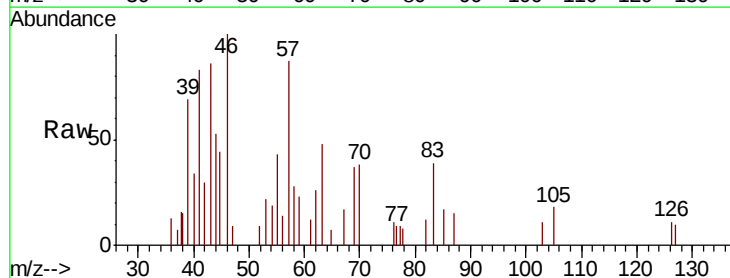
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 F1C11

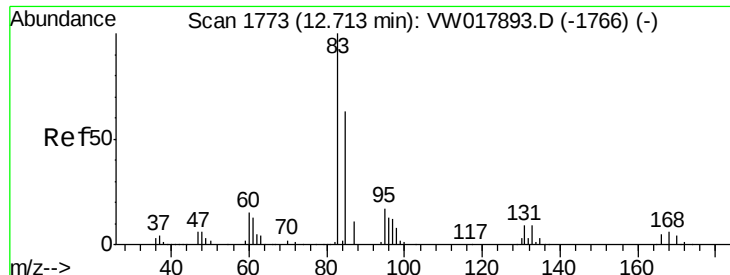
Tot Ion: 75 Resp: 2150  
 Ion Ratio Lower Upper  
 75 100  
 77 58.1 22.7 42.3#



#49  
 2-Hexanone  
 Concen: 0.768 ug/L  
 RT: 10.98 min Scan# 1488  
 Delta R.T. 0.01 min  
 Lab File: VW017904.D  
 Acq: 15 Jan 2021 17:46

Tgt Ion: 43 Resp: 413  
 Ion Ratio Lower Upper  
 43 100  
 58 82.1 51.3 76.9#  
 57 0.0 15.0 22.6#  
 100 9.9 12.2 18.2#





#58

1,1,2,2-Tetrachloroethane

Concen: 0.466 ug/L

RT: 12.70 min Scan# 1771

Delta R.T. -0.01 min

Lab File: VW017904.D

Acq: 15 Jan 2021 17:46

Instrument :

MSVOA\_W

ClientSampled :

F1C11

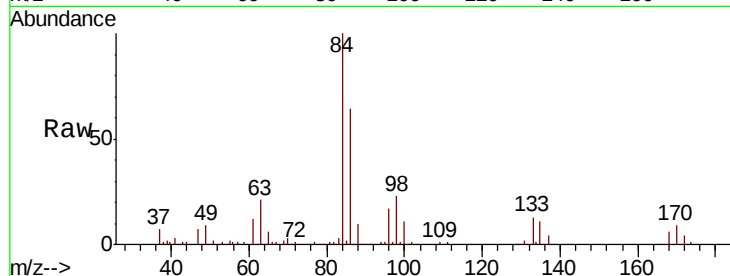
Tot Ion: 83 Resp: 603

Ion Ratio Lower Upper

83 100

85 63.7 45.3 84.1

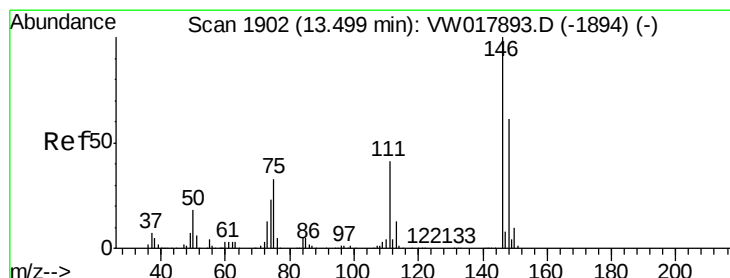
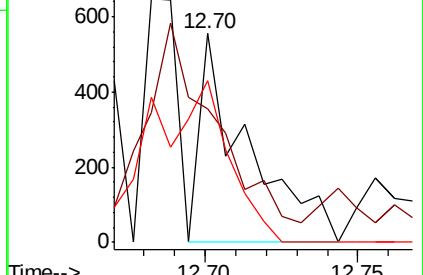
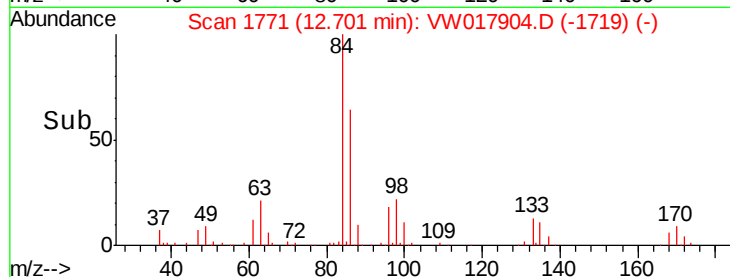
131 77.7 8.3 12.5#



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#63

1,3-Dichlorobenzene

Concen: 5.044 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW017904.D

Acq: 15 Jan 2021 17:46

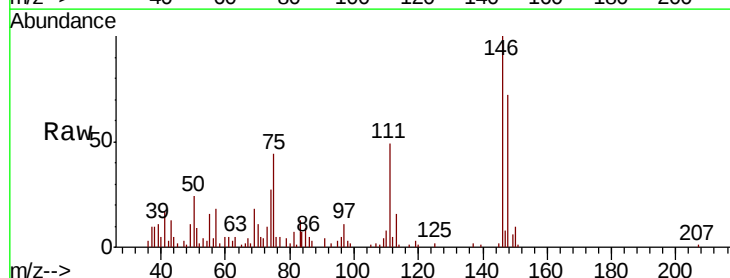
Tgt Ion: 146 Resp: 10703

Ion Ratio Lower Upper

146 100

111 48.5 28.5 52.9

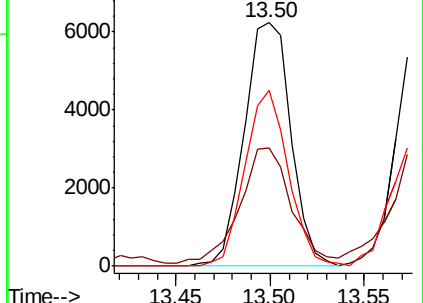
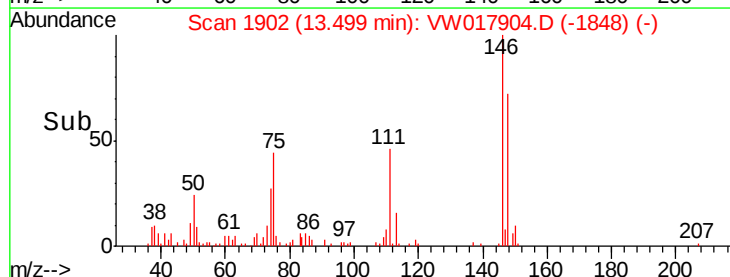
148 72.3 47.8 88.8

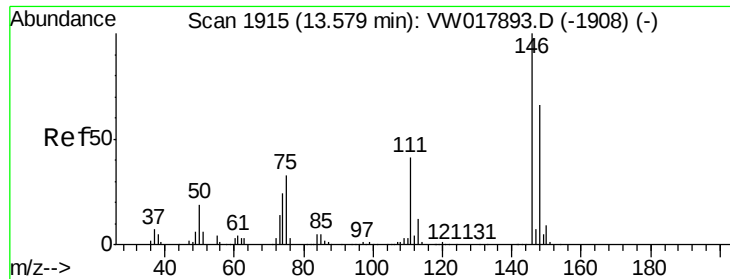


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64  
 1,4-Dichlorobenzene  
 Concen: 4.479 ug/L  
 RT: 13.58 min Scan# 1915  
 Delta R.T. 0.00 min  
 Lab File: VW017904.D  
 Acq: 15 Jan 2021 17:46

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 F1C11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.6  | 27.7  | 51.5  |
| 148     | 57.6  | 47.0  | 87.2  |

