

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082720\  
 Data File : VW016388.D  
 Acq On : 27 Aug 2020 13:53  
 Operator : SY/VA  
 Sample : L3800-06  
 Misc : 6.68G/10ML/MSVOA W/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG3H6

Quant Time: Aug 28 08:11:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 28 08:08:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 342089   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 296277   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 130609   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 51633    | 14.14    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 56.56% |
| 7) Chloroethane-d5             | 2.89   | 69    | 44704    | 16.12    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 64.48% |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 108269   | 12.48    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 49.92% |
| 20) 2-Butanone-d5              | 7.08   | 46    | 40728    | 39.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 78.42% |
| 24) Chloroform-d               | 7.65   | 84    | 177514   | 19.91    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 79.64% |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 92829    | 20.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 80.80% |
| 29) Benzene-d6                 | 8.27   | 84    | 332458   | 20.10    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 80.40% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 94137    | 20.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 82.28% |
| 37) Toluene-d8                 | 10.32  | 98    | 300160   | 19.24    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 76.96% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 43232    | 19.57    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 78.28% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 35472    | 48.37    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 96.74% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 80737    | 21.19    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 84.76% |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 99240    | 19.82    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 79.28% |

## Target Compounds

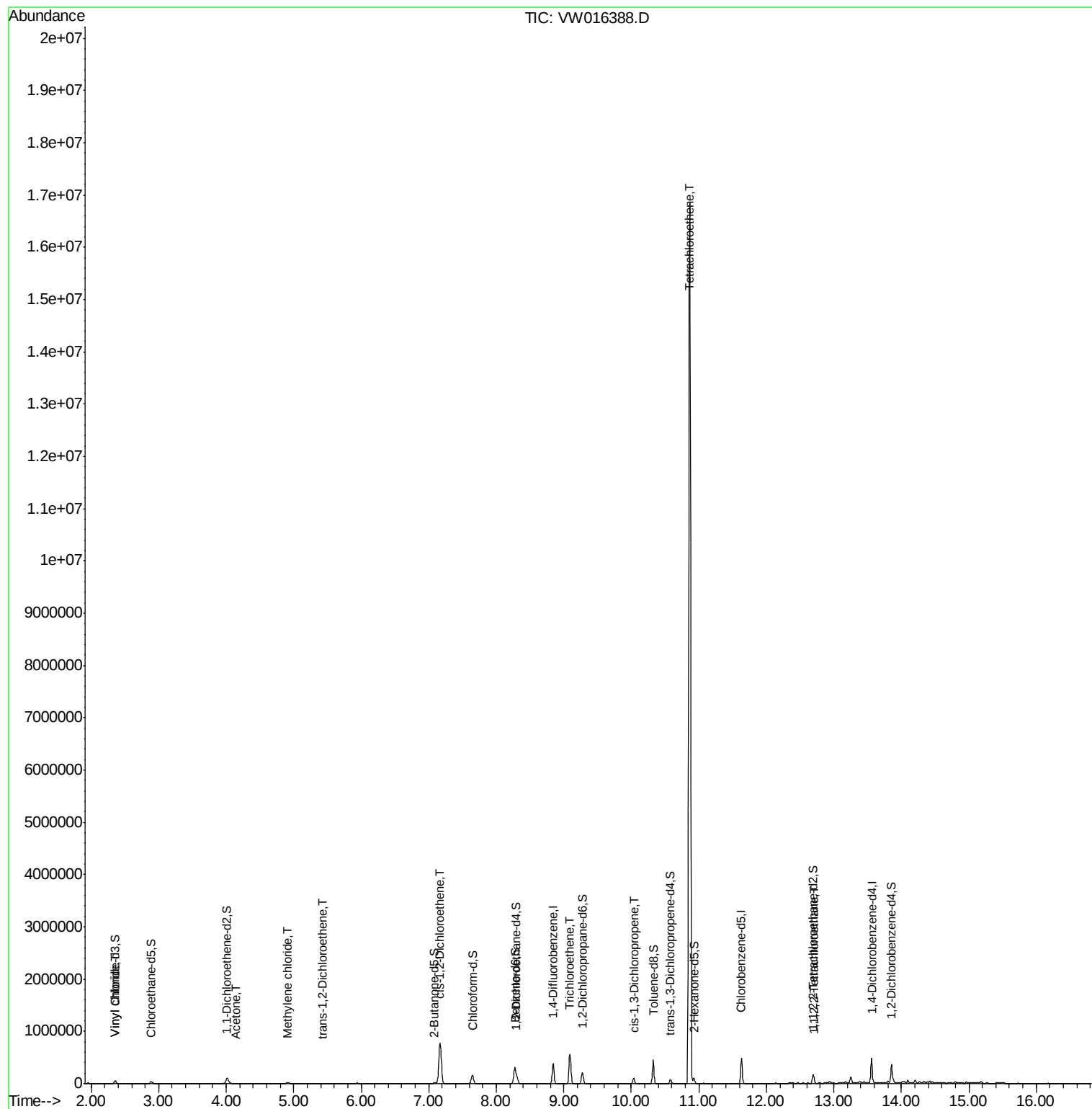
| Target Compounds              | R.T.  | QIon | Response | Conc     | Units  | Ovalue |
|-------------------------------|-------|------|----------|----------|--------|--------|
| 5) Vinyl chloride             | 2.36  | 62   | 11751    | 2.940    | ug/L   | 99     |
| 13) Acetone                   | 4.14  | 43   | 2399     | 2.783    | ug/L   | 45     |
| 16) Methylene chloride        | 4.91  | 84   | 15609    | 2.468    | ug/L   | 94     |
| 18) trans-1,2-Dichloroethene  | 5.43  | 96   | 2168     | 0.454    | ug/L   | 92     |
| 22) cis-1,2-Dichloroethene    | 7.16  | 96   | 495294   | 98.720   | ug/L   | 97     |
| 35) Trichloroethene           | 9.09  | 95   | 205439   | 42.695   | ug/L   | 99     |
| 42) cis-1,3-Dichloropropene   | 10.03 | 75   | 2910     | 0.445    | ug/L # | 49     |
| 47) Tetrachloroethene         | 10.87 | 164  | 3999106  | 1053.959 | ug/L   | 97     |
| 58) 1,1,2,2-Tetrachloroethane | 12.71 | 83   | 4550     | 1.182    | ug/L # | 89     |

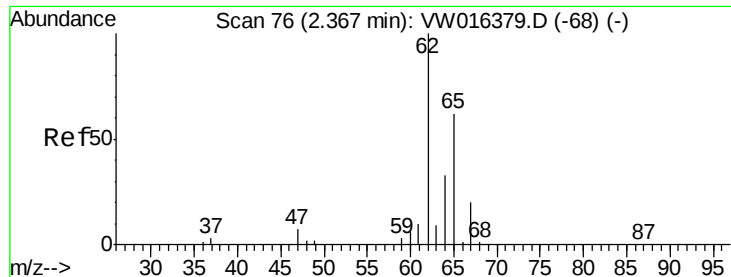
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3800-06  
Misc : 6.68G/10ML/MSVOA W/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG3H6

Quant Time: Aug 28 08:11:07 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM082420S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Aug 28 08:08:30 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.940 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW016388.D

Acq: 27 Aug 2020 13:53

Instrument :

MSVOA\_W

ClientSampleId :

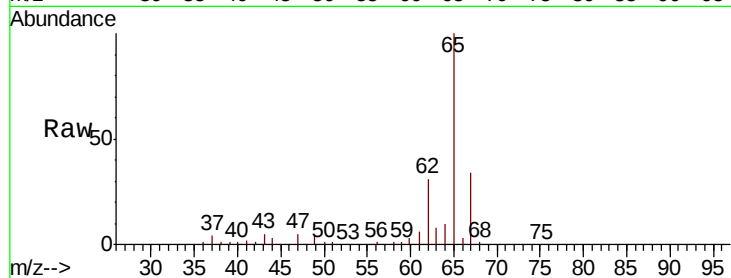
BG3H6

Tot Ion: 62 Resp: 11751

Ion Ratio Lower Upper

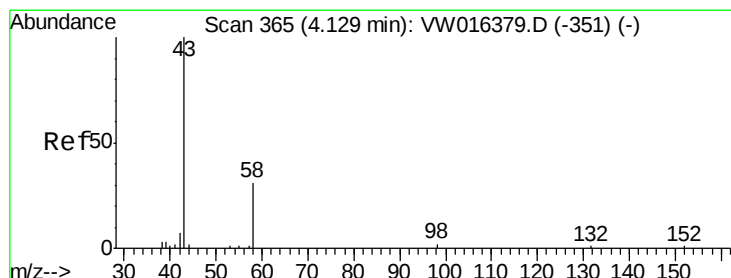
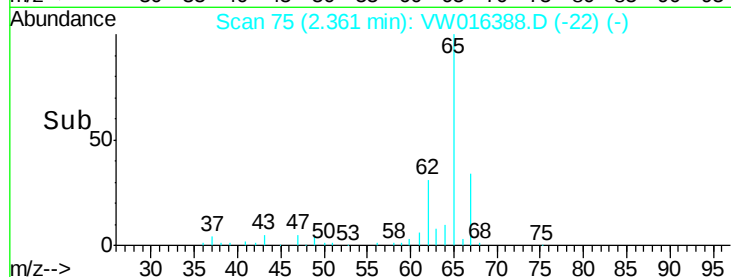
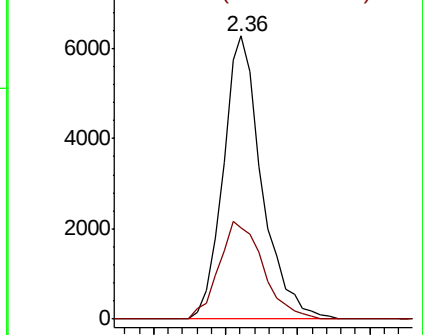
62 100

64 32.2 22.0 41.0



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 64.00 (63.70 to 64.70): VW



#13

Acetone

Concen: 2.783 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW016388.D

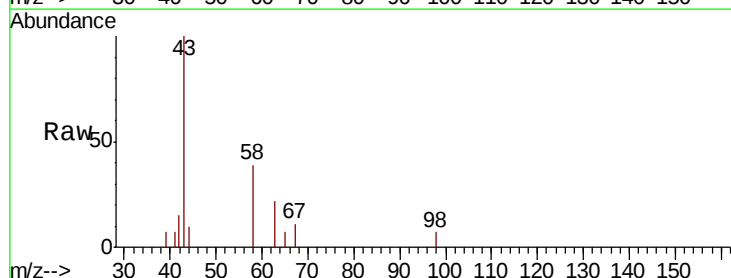
Acq: 27 Aug 2020 13:53

Tgt Ion: 43 Resp: 2399

Ion Ratio Lower Upper

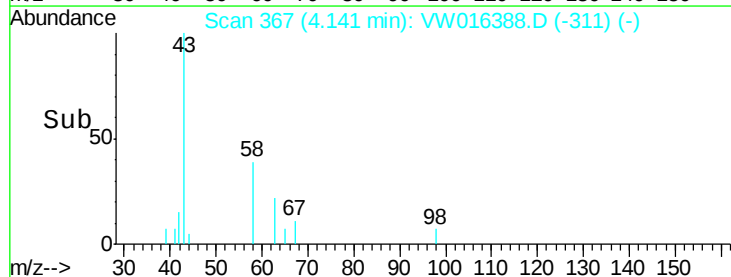
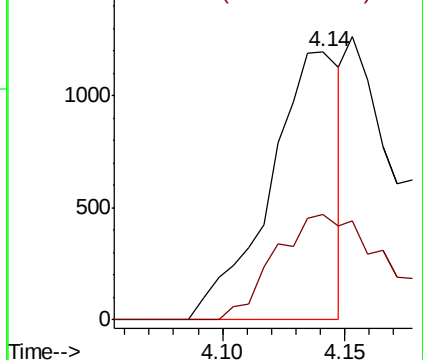
43 100

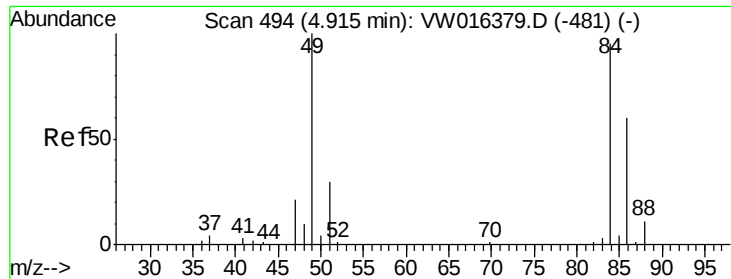
58 62.7 0.0 63.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

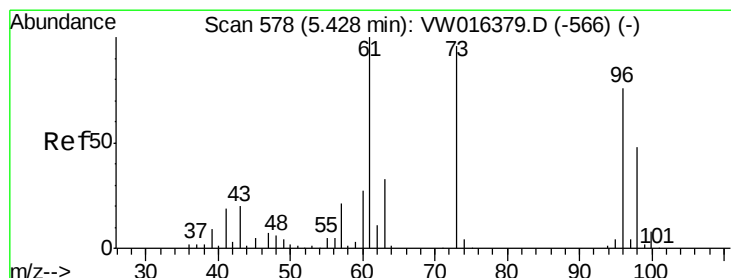
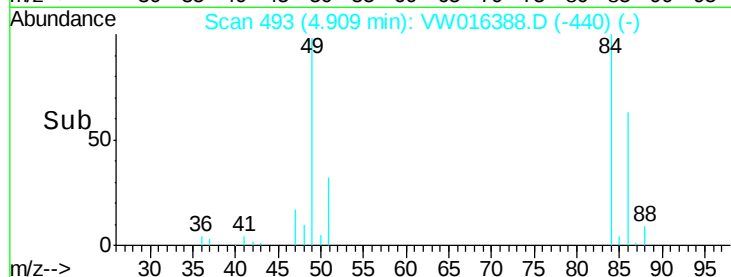
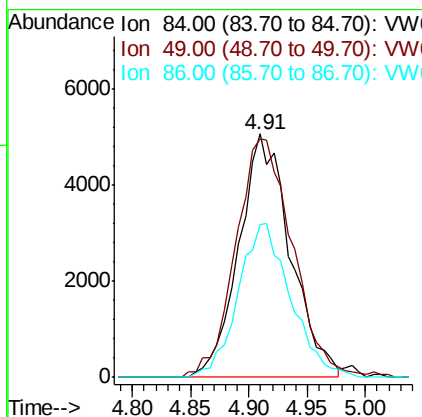
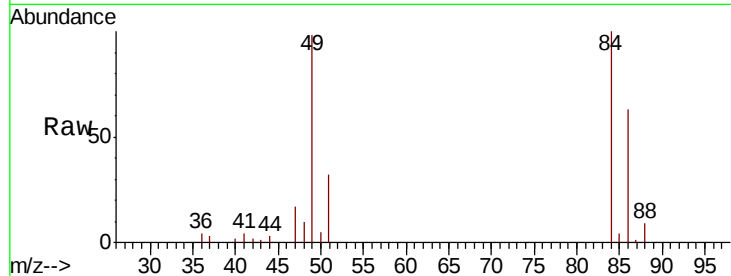




#16  
Methvlene chloride  
Concen: 2.468 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW016388.D  
Acq: 27 Aug 2020 13:53

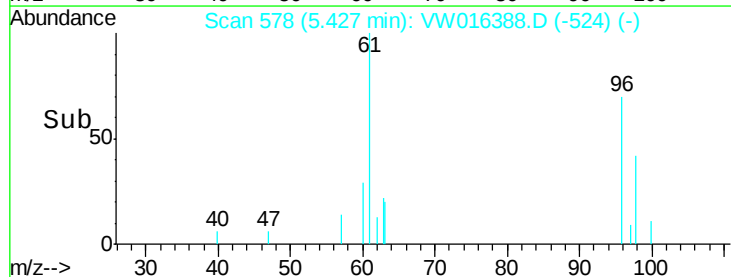
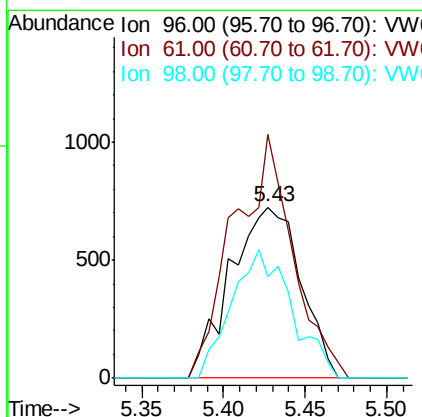
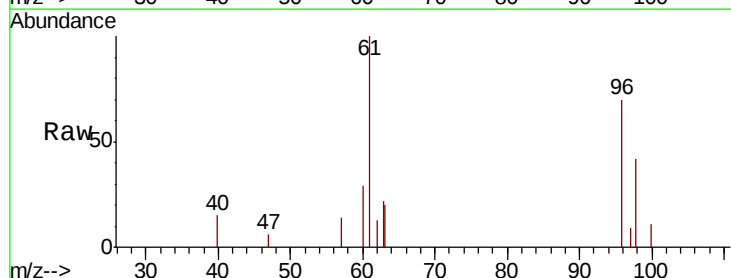
Instrument :  
MSVOA\_W  
ClientSampled :  
BG3H6

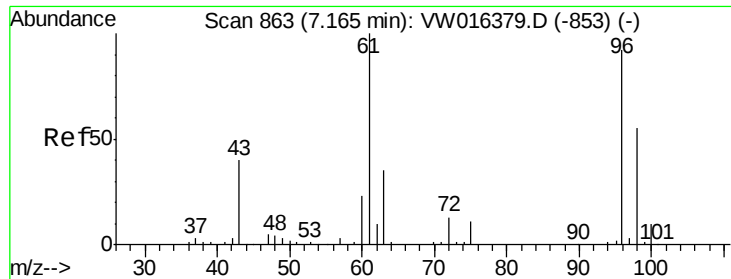
Tot Ion: 84 Resp: 15609  
Ion Ratio Lower Upper  
84 100  
49 98.0 75.3 139.9  
86 62.6 43.3 80.3



#18  
trans-1,2-Dichloroethene  
Concen: 0.454 ug/L  
RT: 5.43 min Scan# 578  
Delta R.T. -0.00 min  
Lab File: VW016388.D  
Acq: 27 Aug 2020 13:53

Tgt Ion: 96 Resp: 2168  
Ion Ratio Lower Upper  
96 100  
61 142.3 89.9 167.0  
98 59.6 41.6 77.2



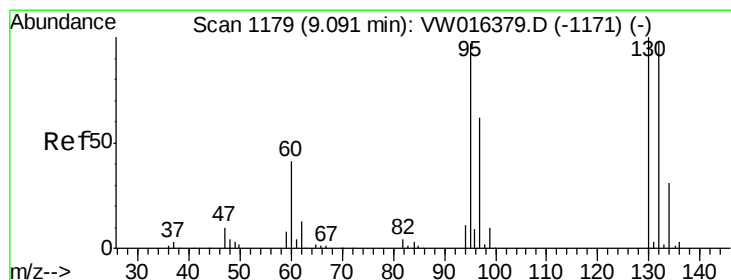
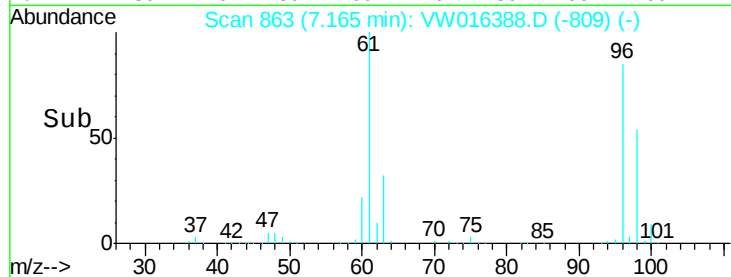
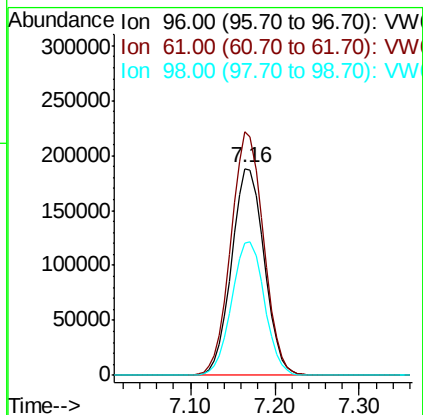
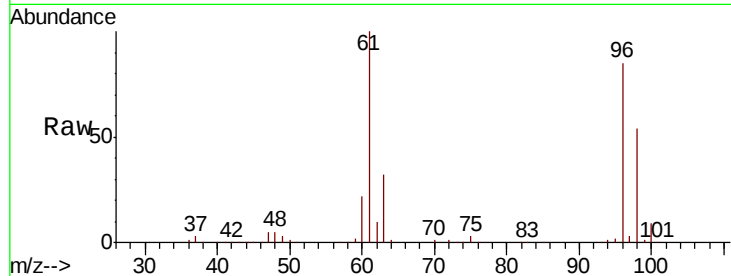


#22

cis-1,2-Dichloroethene  
Concen: 98.720 ug/L  
RT: 7.16 min Scan# 863  
Delta R.T. -0.00 min  
Lab File: VW016388.D  
Acq: 27 Aug 2020 13:53

Instrument :  
MSVOA\_W  
ClientSampled :  
BG3H6

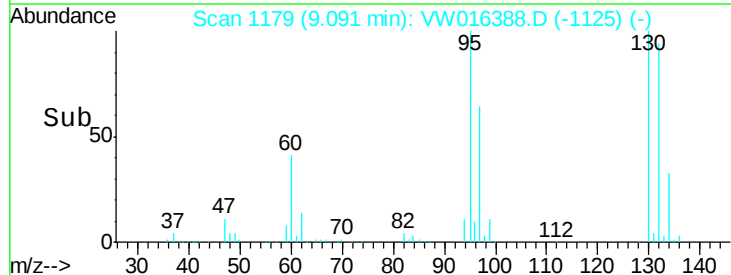
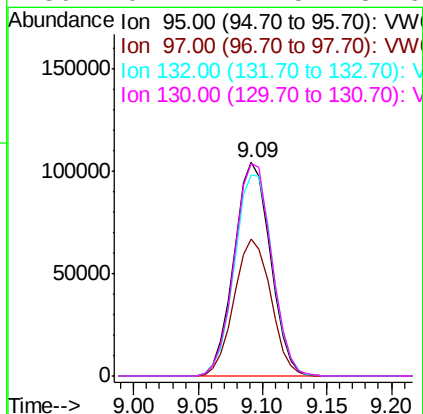
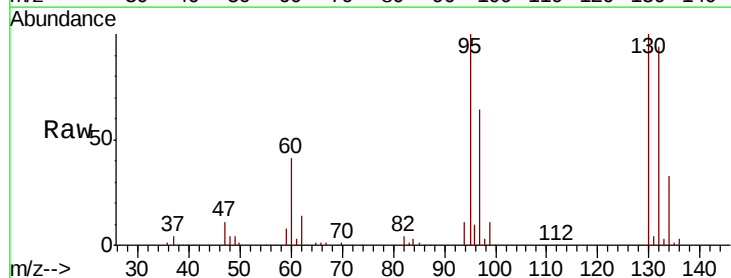
Tot Ion: 96 Resp: 495294  
Ion Ratio Lower Upper  
96 100  
61 117.9 84.9 157.7  
98 63.9 46.8 86.8

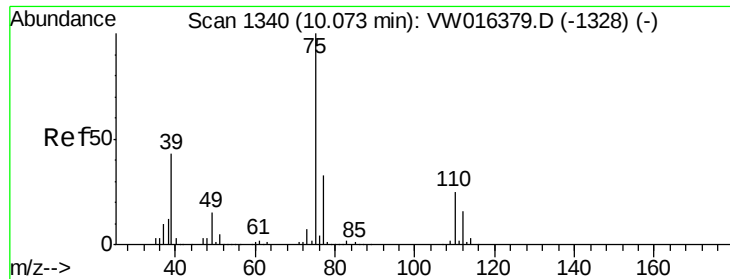


#35

Trichloroethene  
Concen: 42.695 ug/L  
RT: 9.09 min Scan# 1179  
Delta R.T. -0.00 min  
Lab File: VW016388.D  
Acq: 27 Aug 2020 13:53

Tgt Ion: 95 Resp: 205439  
Ion Ratio Lower Upper  
95 100  
97 65.0 44.9 83.5  
132 97.9 68.2 126.6  
130 101.4 71.5 132.9





#42

cis-1,3-Dichloropropene

Concen: 0.445 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW016388.D

Acq: 27 Aug 2020 13:53

Instrument :

MSVOA\_W

ClientSampleId :

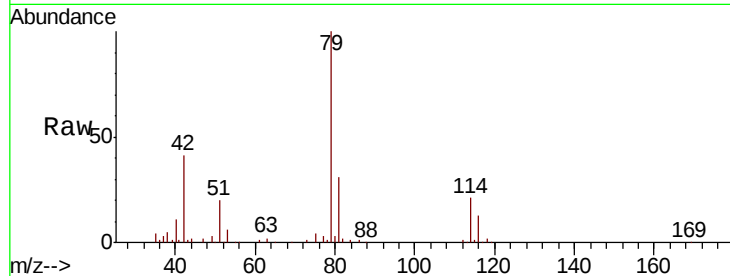
BG3H6

Tot Ion: 75 Resp: 2910

Ion Ratio Lower Upper

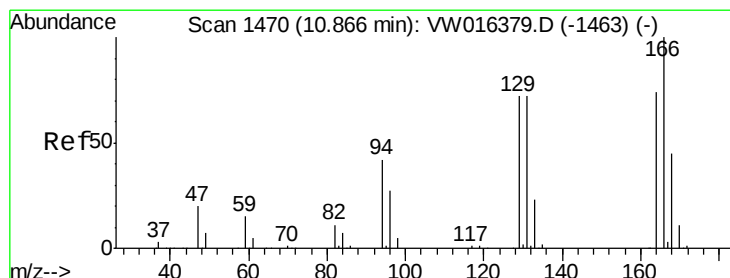
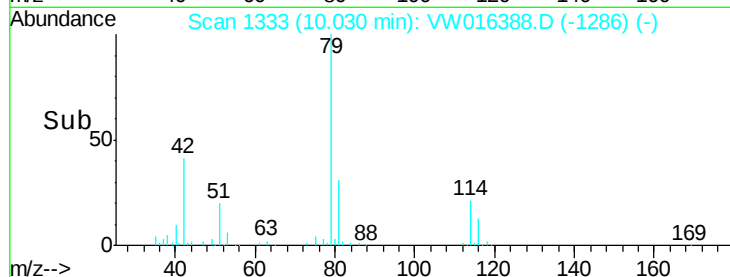
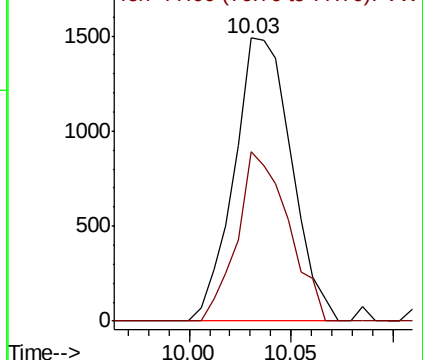
75 100

77 59.8 22.0 40.8#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#47

Tetrachloroethene

Concen: 1053.959 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW016388.D

Acq: 27 Aug 2020 13:53

Tgt Ion: 164 Resp: 3999106

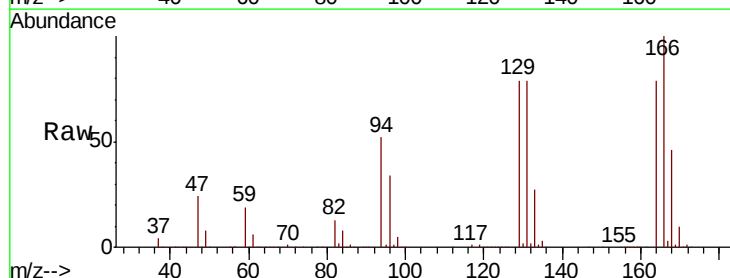
Ion Ratio Lower Upper

164 100

129 100.2 71.5 132.7

131 100.5 67.4 125.2

166 127.4 92.5 171.9

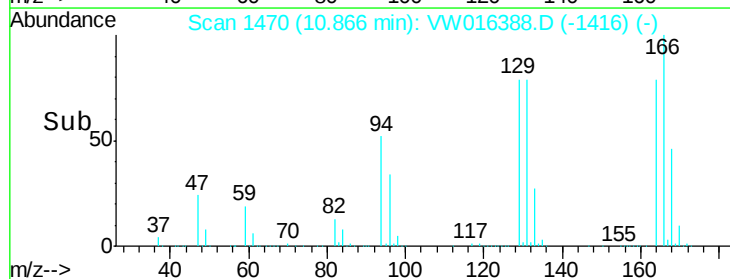
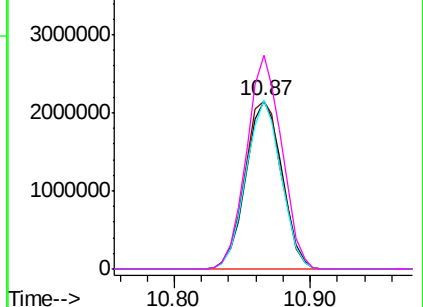


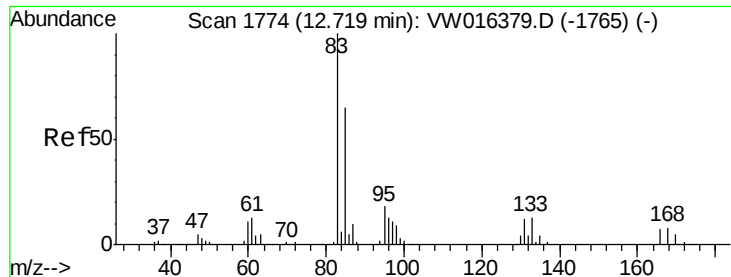
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 1.182 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW016388.D

Acq: 27 Aug 2020 13:53

Instrument :

MSVOA\_W

ClientSampleId :

BG3H6

Tot Ion: 83 Resp: 4550

Ion Ratio Lower Upper

83 100

85 73.3 46.0 85.4

131 18.1 8.8 13.2#

