

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111220\  
 Data File : VW017184.D  
 Acq On : 12 Nov 2020 14:57  
 Operator : SY/VA  
 Sample : L4693-17  
 Misc : 5.02G/10ML/MSVOA W/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG4E3

Quant Time: Nov 13 04:19:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 13 04:11:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 371935   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 326812   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 128395   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 113311   | 24.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 96.76%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 93775    | 25.98    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 103.92% |
| 10) 1,1-Dichloroethene-d2      | 4.02   | 63    | 146897   | 17.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 70.12%  |
| 20) 2-Butanone-d5              | 7.09   | 46    | 47621    | 45.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 90.92%  |
| 24) Chloroform-d               | 7.65   | 84    | 226082   | 26.04    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 104.16% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 115276   | 26.70    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 106.80% |
| 29) Benzene-d6                 | 8.28   | 84    | 445425   | 26.76    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 107.04% |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 124377   | 27.02    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 108.08% |
| 37) Toluene-d8                 | 10.33  | 98    | 407875   | 25.99    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 103.96% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 47860    | 23.06    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 92.24%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 36760    | 45.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.52%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 98376    | 24.53    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 98.12%  |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 115837   | 25.61    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 102.44% |

## Target Compounds

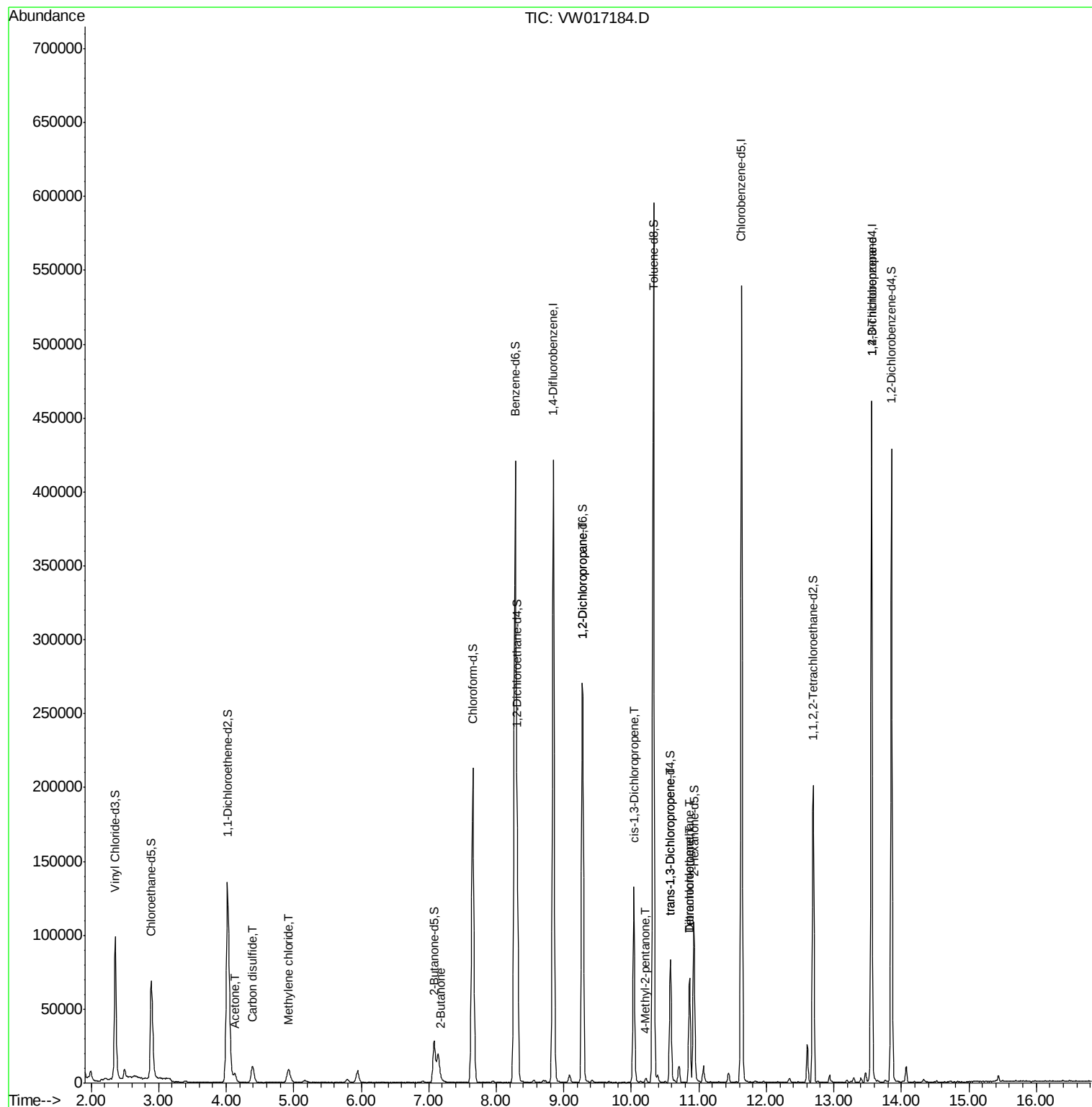
|                               |       |     |       |              | Ovalue |
|-------------------------------|-------|-----|-------|--------------|--------|
| 13) Acetone                   | 4.13  | 43  | 9118  | 12.999 ug/L  | 94     |
| 14) Carbon disulfide          | 4.38  | 76  | 24457 | 1.947 ug/L   | 99     |
| 16) Methylene chloride        | 4.92  | 84  | 8421  | 1.679 ug/L   | 100    |
| 21) 2-Butanone                | 7.18  | 43  | 2460  | 2.184 ug/L   | 87     |
| 40) 1,2-Dichloropropane       | 9.27  | 63  | 14597 | 3.639 ug/L # | 86     |
| 42) cis-1,3-Dichloropropene   | 10.04 | 75  | 3451  | 0.543 ug/L # | 73     |
| 43) 4-Methyl-2-pentanone      | 10.21 | 43  | 2106  | 0.851 ug/L # | 84     |
| 45) trans-1,3-Dichloropropene | 10.58 | 75  | 2302  | 0.422 ug/L   | 97     |
| 47) Tetrachloroethene         | 10.87 | 164 | 16382 | 3.777 ug/L   | 96     |
| 50) Dibromochloromethane      | 10.87 | 129 | 15345 | 3.642 ug/L # | 11     |
| 59) 1,2,3-Trichloropropane    | 13.56 | 75  | 13405 | 4.668 ug/L   | 89     |

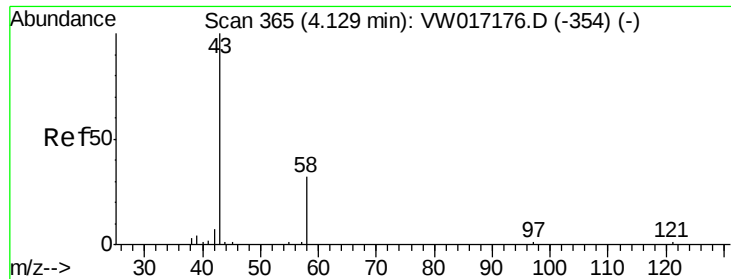
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111220\  
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Operator : SY/VA  
Sample : L4693-17  
Misc : 5.02G/10ML/MSVOA W/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BG4E3

Quant Time: Nov 13 04:19:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 13 04:11:30 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 12.999 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW017184.D

Acq: 12 Nov 2020 14:57

Instrument :

MSVOA\_W

ClientSampleId :

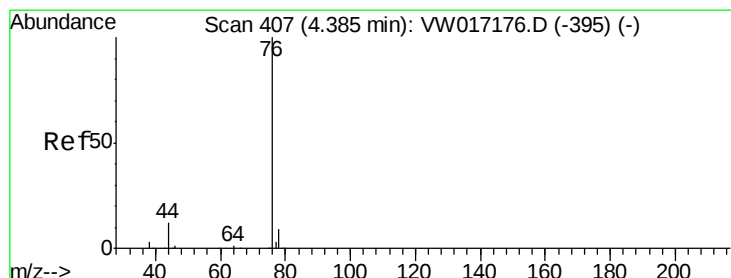
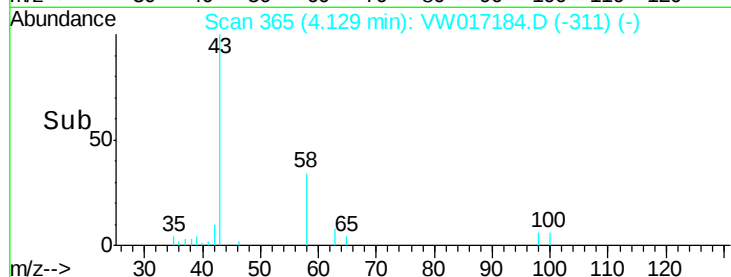
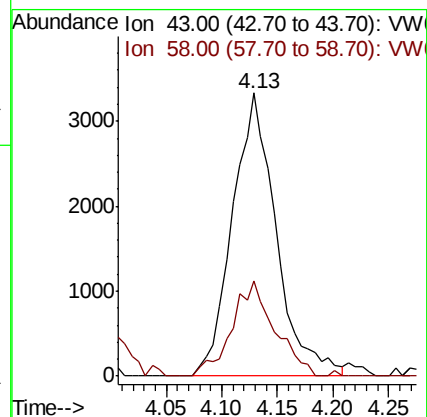
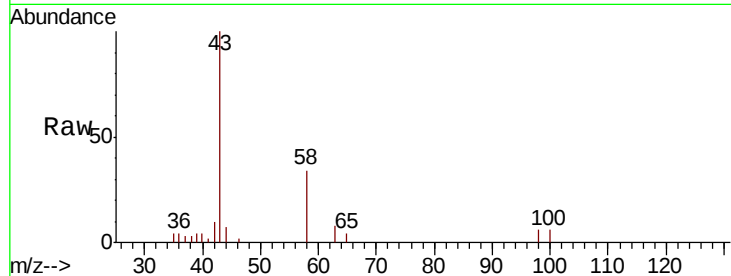
BG4E3

Tot Ion: 43 Resp: 9118

Ion Ratio Lower Upper

43 100

58 31.1 0.0 69.2



#14

Carbon disulfide

Concen: 1.947 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW017184.D

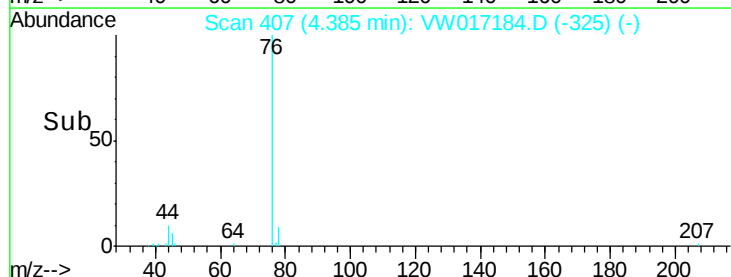
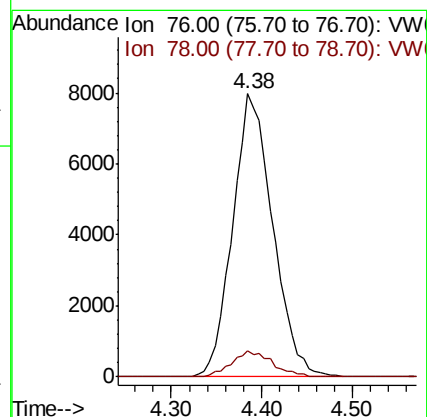
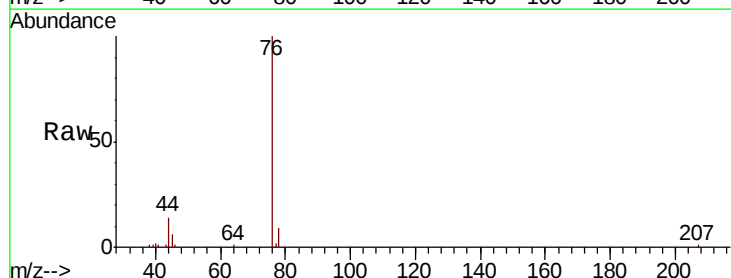
Acq: 12 Nov 2020 14:57

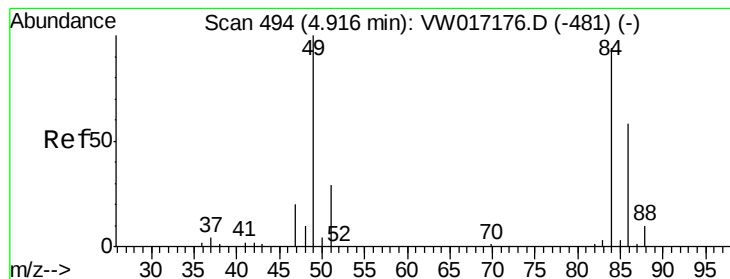
Tgt Ion: 76 Resp: 24457

Ion Ratio Lower Upper

76 100

78 9.3 7.6 11.4





#16

Methylene chloride

Concen: 1.679 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW017184.D

Acq: 12 Nov 2020 14:57

Instrument :

MSVOA\_W

ClientSampled :

BG4E3

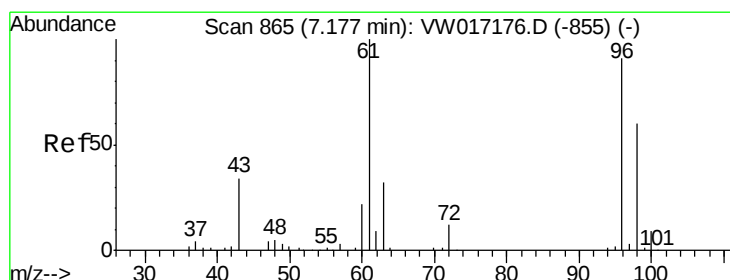
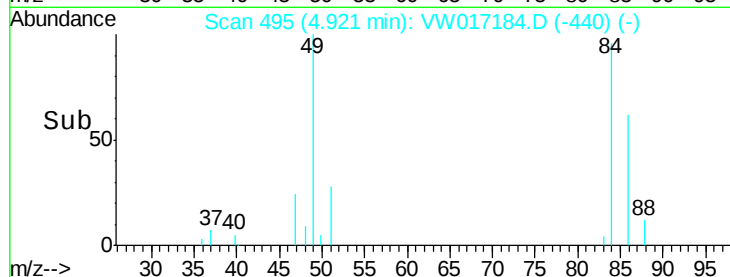
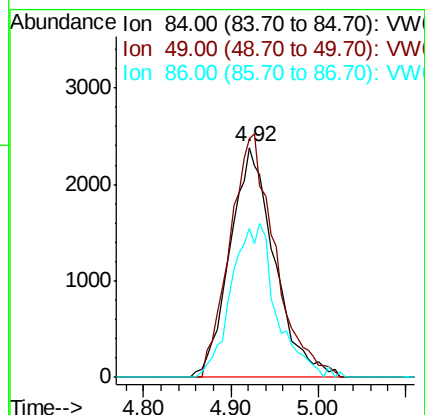
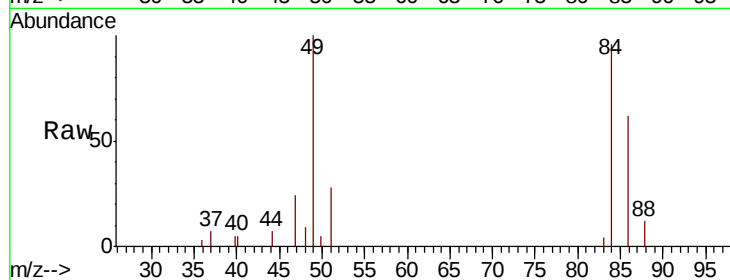
Tot Ion: 84 Resp: 8421

Ion Ratio Lower Upper

84 100

49 103.8 72.3 134.3

86 64.6 45.1 83.7



#21

2-Butanone

Concen: 2.184 ug/L

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW017184.D

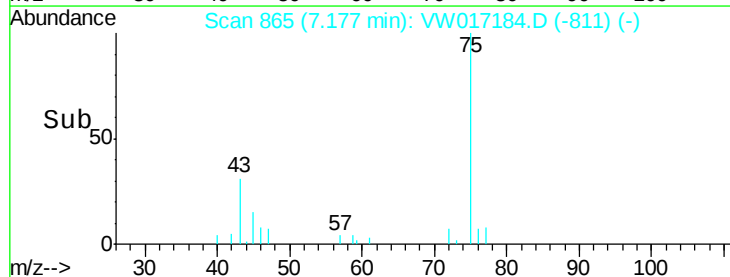
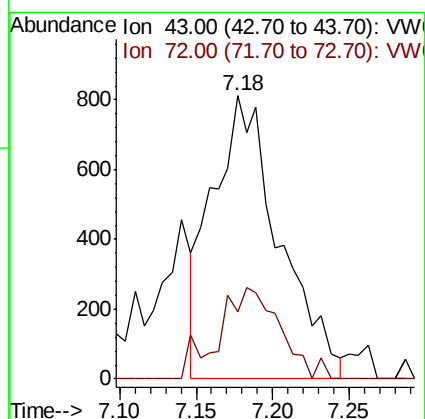
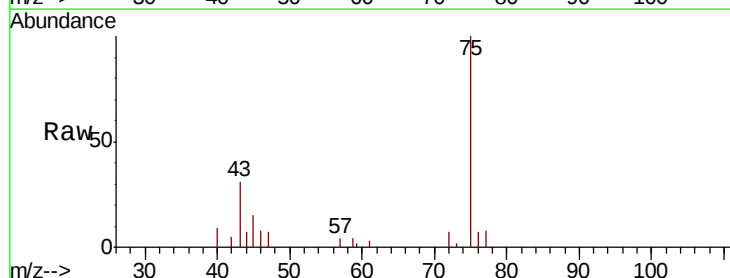
Acq: 12 Nov 2020 14:57

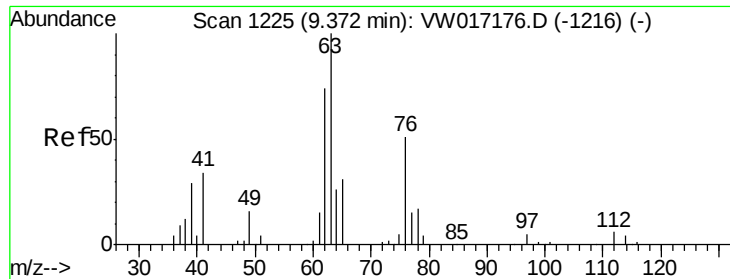
Tgt Ion: 43 Resp: 2460

Ion Ratio Lower Upper

43 100

72 24.9 16.1 48.3

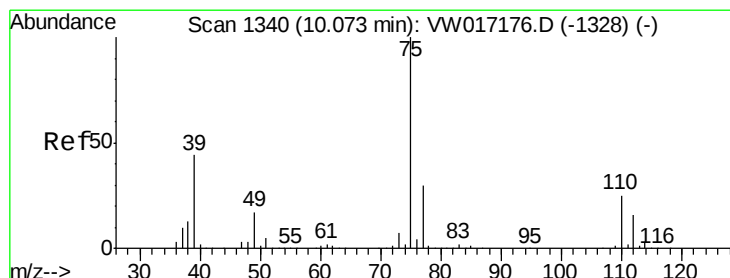
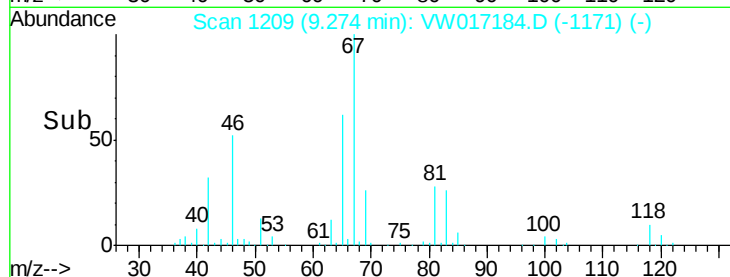
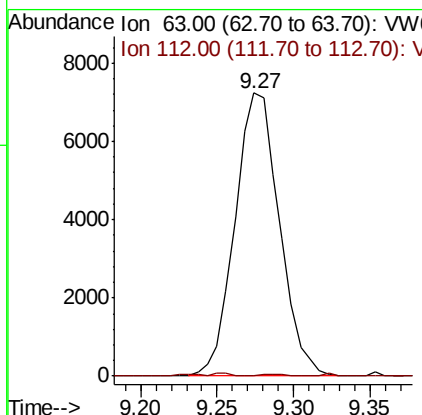
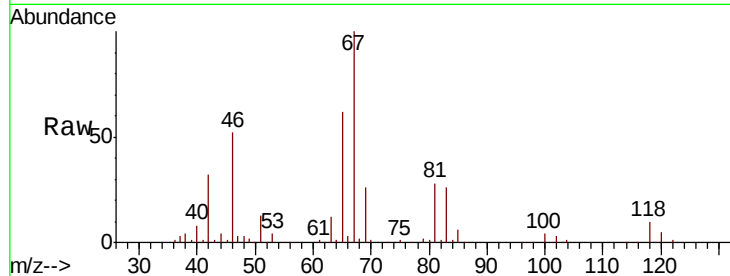




#40  
 1,2-Dichloropropane  
 Concen: 3.639 ug/L  
 RT: 9.27 min Scan# 1209  
 Delta R.T. -0.10 min  
 Lab File: VW017184.D  
 Acq: 12 Nov 2020 14:57

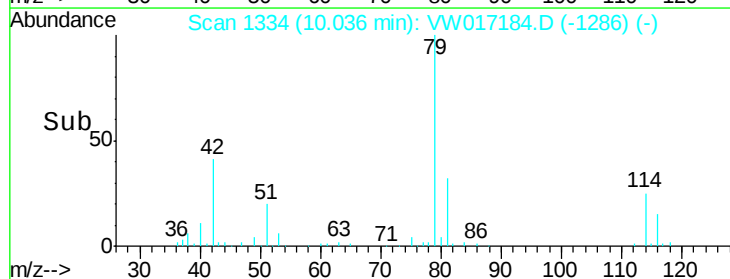
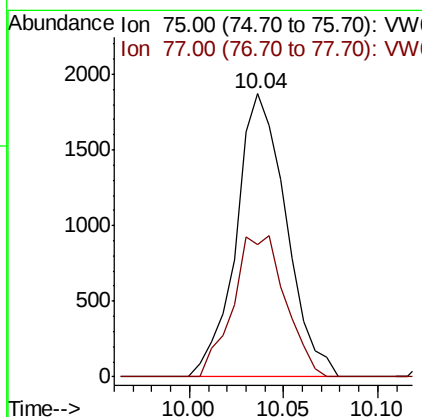
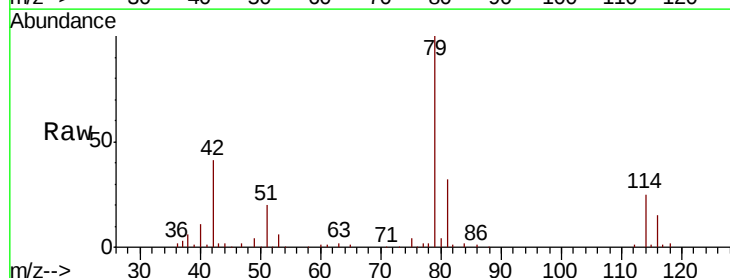
Instrument :  
 MSVOA\_W  
 ClientSampled :  
 BG4E3

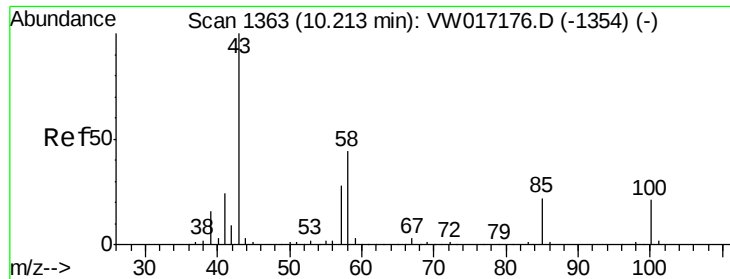
Tot Ion: 63 Resp: 14597  
 Ion Ratio Lower Upper  
 63 100  
 112 0.4 4.2 6.2#



#42  
 cis-1,3-Dichloropropene  
 Concen: 0.543 ug/L  
 RT: 10.04 min Scan# 1334  
 Delta R.T. -0.04 min  
 Lab File: VW017184.D  
 Acq: 12 Nov 2020 14:57

Tgt Ion: 75 Resp: 3451  
 Ion Ratio Lower Upper  
 75 100  
 77 46.7 22.0 41.0#





#43

4-Methyl-2-pentanone

Concen: 0.851 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW017184.D

Acq: 12 Nov 2020 14:57

Instrument :

MSVOA\_W

ClientSampleID :

BG4E3

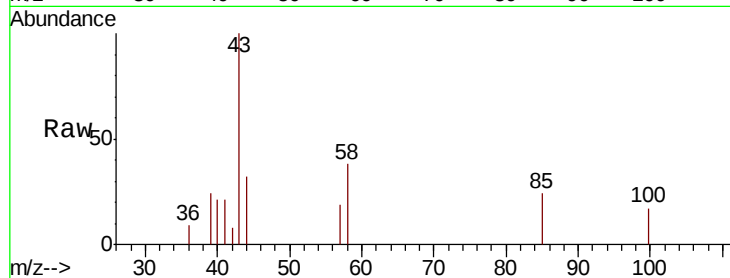
Tot Ion: 43 Resp: 2106

Ion Ratio Lower Upper

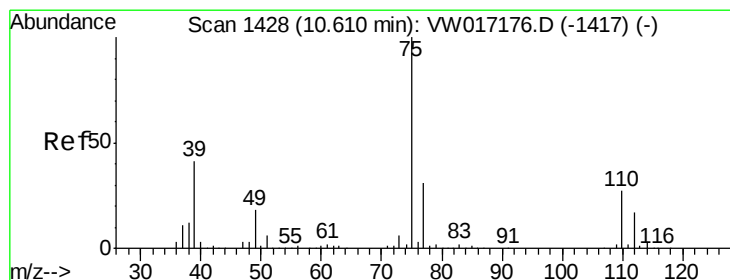
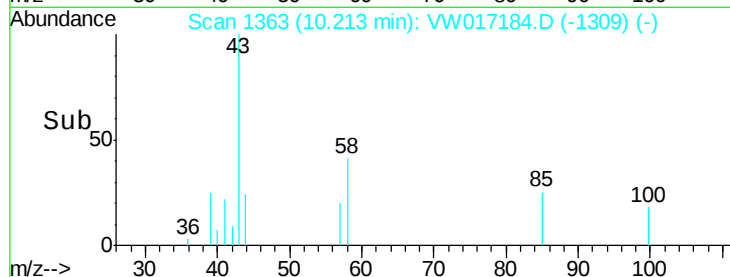
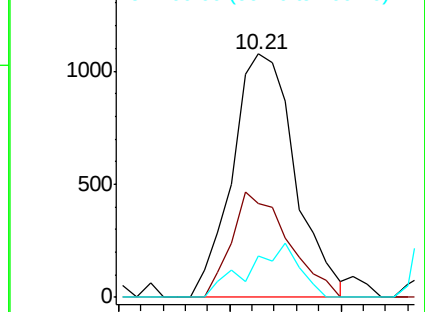
43 100

58 39.1 35.0 52.6

100 4.5 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW  
Ion 58.00 (57.70 to 58.70): VW  
Ion 100.00 (99.70 to 100.70): VW



#45

trans-1,3-Dichloropropene

Concen: 0.422 ug/L

RT: 10.58 min Scan# 1424

Delta R.T. -0.02 min

Lab File: VW017184.D

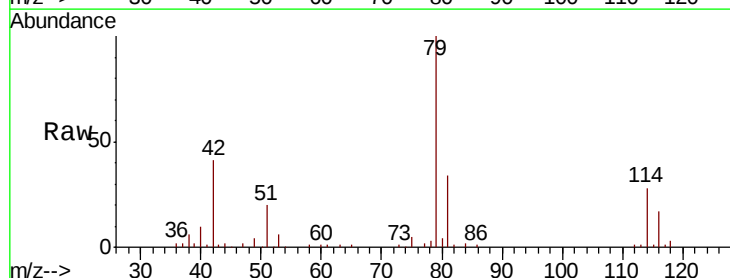
Acq: 12 Nov 2020 14:57

Tgt Ion: 75 Resp: 2302

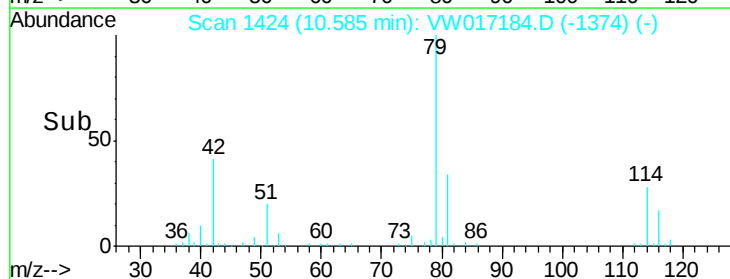
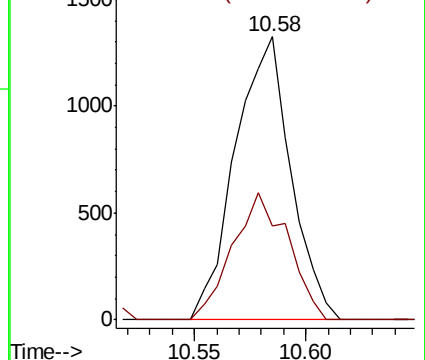
Ion Ratio Lower Upper

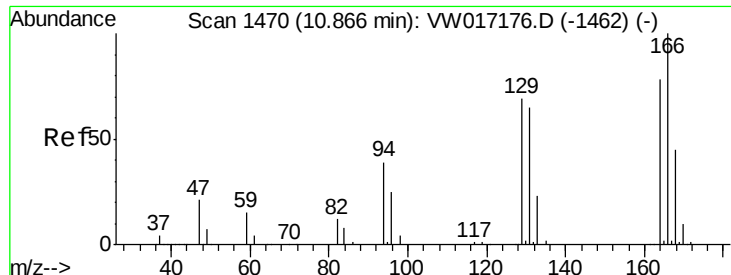
75 100

77 33.2 22.1 41.1



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





#47

Tetrachloroethene

Concen: 3.777 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW017184.D

Acq: 12 Nov 2020 14:57

Instrument :

MSVOA\_W

ClientSampleId :

BG4E3

Tot Ion:164 Resp: 16382

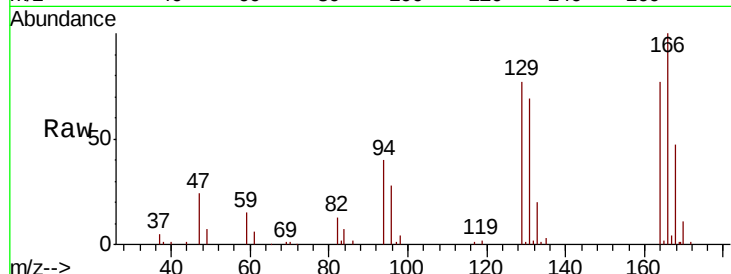
Ion Ratio Lower Upper

164 100

129 99.3 62.9 116.7

131 90.1 63.3 117.5

166 129.8 92.0 170.8

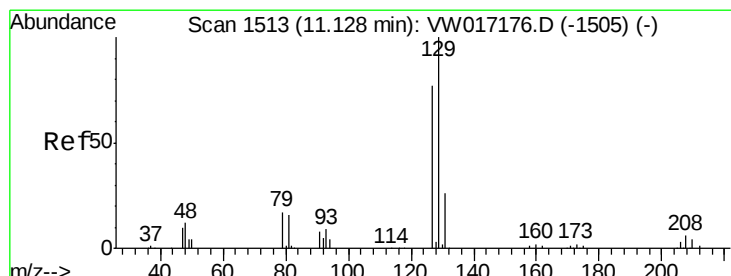
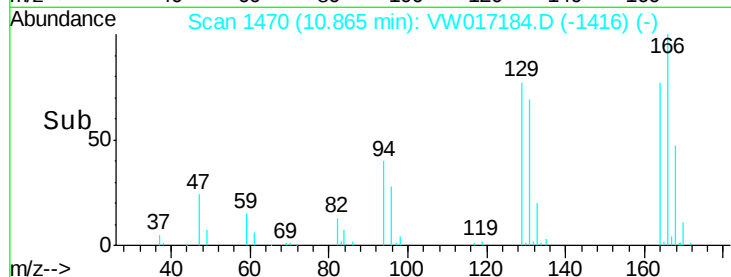
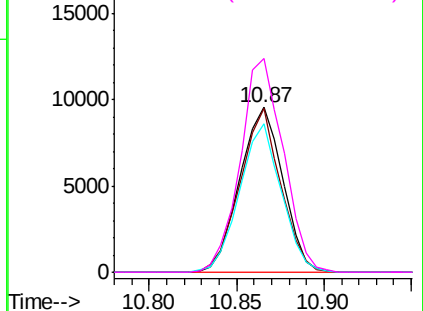


Abundance Ion 164.00 (163.70 to 164.70): V

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



#50

Dibromochloromethane

Concen: 3.642 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.26 min

Lab File: VW017184.D

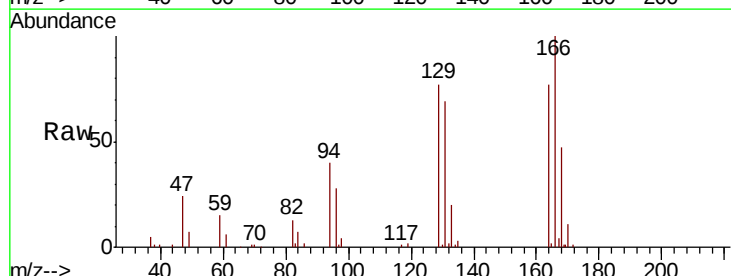
Acq: 12 Nov 2020 14:57

Tgt Ion:129 Resp: 15345

Ion Ratio Lower Upper

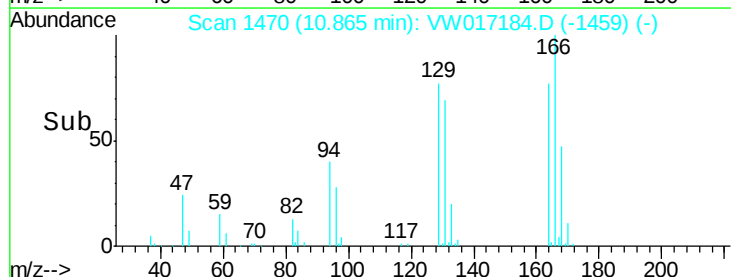
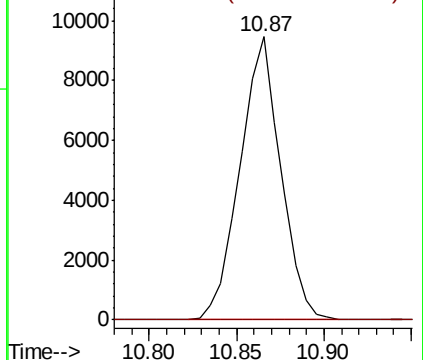
129 100

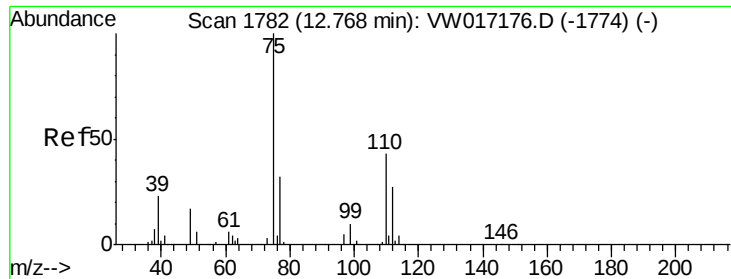
127 0.0 54.3 100.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#59

1,2,3-Trichloropropane

Concen: 4.668 ug/L

RT: 13.56 min Scan# 1912

Delta R.T. 0.79 min

Lab File: VW017184.D

Acq: 12 Nov 2020 14:57

Instrument :

MSVOA\_W

ClientSampleId :

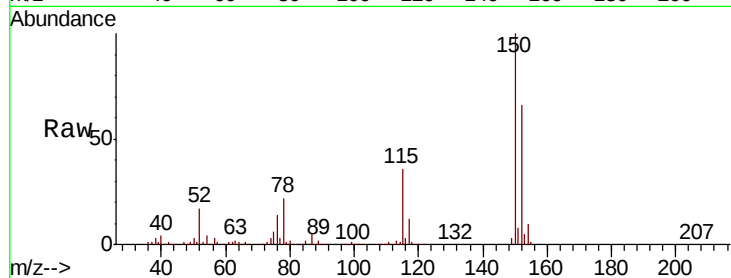
BG4E3

Tot Ion: 75 Resp: 13405

Ion Ratio Lower Upper

75 100

77 39.4 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

