

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111120\  
 Data File : VW017160.D  
 Acq On : 11 Nov 2020 13:16  
 Operator : SY/VA  
 Sample : L4693-07  
 Misc : 5.29G/10ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BG4D7

Quant Time: Nov 12 03:15:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Nov 12 03:07:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.85  | 114  | 499204   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 441776   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 206375   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 122206   | 19.44    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 77.76% |
| 7) Chloroethane-d5             | 2.89   | 69    | 103225   | 21.30    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 85.20% |
| 10) 1,1-Dichloroethene-d2      | 4.03   | 63    | 165881   | 14.75    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 59.00% |
| 20) 2-Butanone-d5              | 7.09   | 46    | 34554    | 24.57    | ug/L | 0.01   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 49.14% |
| 24) Chloroform-d               | 7.65   | 84    | 233031   | 20.00    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 80.00% |
| 26) 1,2-Dichloroethane-d4      | 8.31   | 65    | 107803   | 18.61    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 74.44% |
| 29) Benzene-d6                 | 8.28   | 84    | 471296   | 20.95    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 83.80% |
| 33) 1,2-Dichloropropane-d6     | 9.28   | 67    | 126884   | 20.39    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 81.56% |
| 37) Toluene-d8                 | 10.33  | 98    | 449787   | 21.20    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 84.80% |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 48446    | 17.27    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 69.08% |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 26834    | 24.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 49.42% |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 84367    | 15.56    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 62.24% |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 148082   | 20.37    | ug/L | 0.00   |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 81.48% |

## Target Compounds

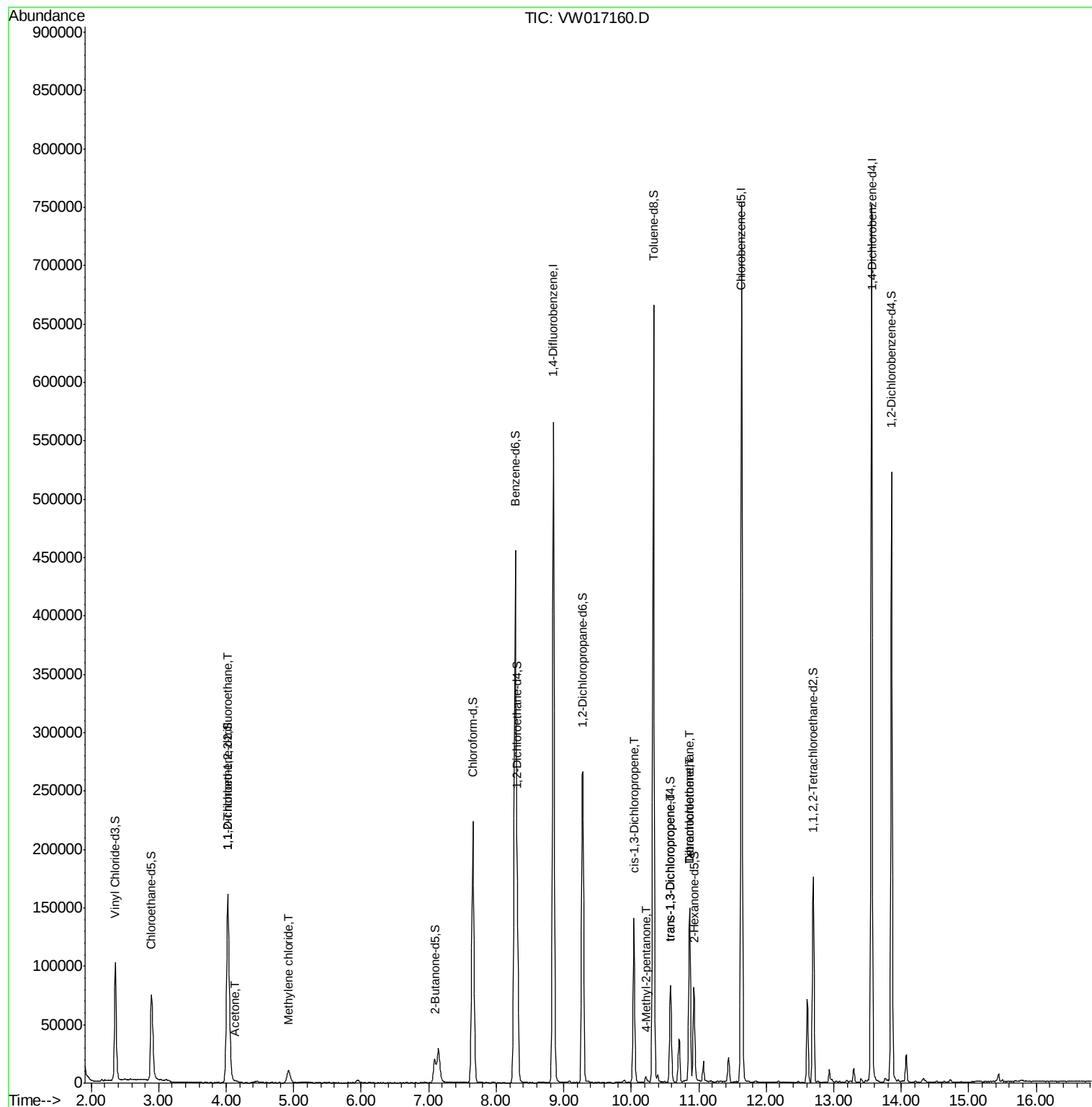
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 11) 1,1,2-Trichloro-1,2,2-trif | 4.03  | 101 | 1663  | 0.258 ug/L # | 17     |
| 13) Acetone                    | 4.14  | 43  | 1005  | 1.067 ug/L   | 52     |
| 16) Methylene chloride         | 4.93  | 84  | 9747  | 1.448 ug/L   | 93     |
| 42) cis-1,3-Dichloropropene    | 10.04 | 75  | 3860  | 0.449 ug/L # | 61     |
| 43) 4-Methyl-2-pentanone       | 10.21 | 43  | 3652  | 1.092 ug/L   | 94     |
| 45) trans-1,3-Dichloropropene  | 10.58 | 75  | 2232  | 0.303 ug/L   | 97     |
| 47) Tetrachloroethene          | 10.87 | 164 | 36696 | 6.259 ug/L   | 93     |
| 50) Dibromochloromethane       | 10.87 | 129 | 31419 | 5.516 ug/L # | 11     |

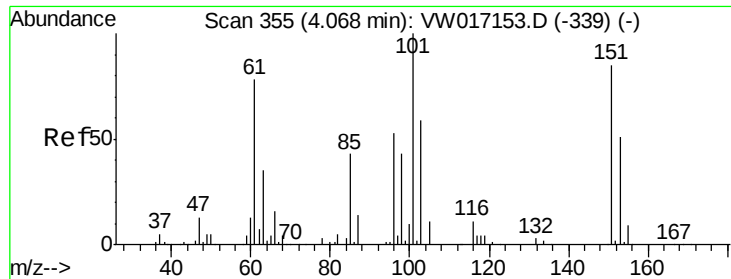
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
BG4D7

Quant Time: Nov 12 03:15:57 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM110420S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Nov 12 03:07:51 2020  
Response via : Initial Calibration





#11

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

Concen: 0.258 ug/L

RT: 4.03 min Scan# 348

Delta R.T. -0.04 min

Lab File: VW017160.D

Acq: 11 Nov 2020 13:16

Instrument :

MSVOA\_W

ClientSampled :

BG4D7

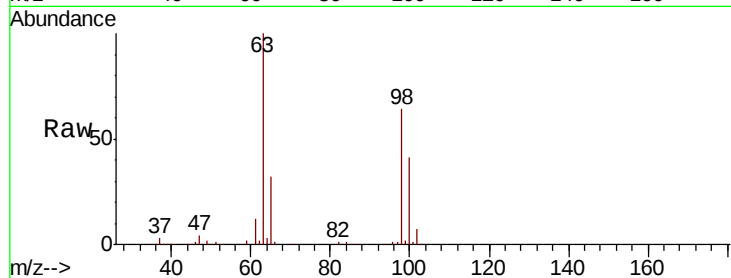
Tot Ion:101 Resp: 1663

Ion Ratio Lower Upper

101 100

85 0.0 32.8 49.2#

151 0.0 65.4 98.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V

4.03

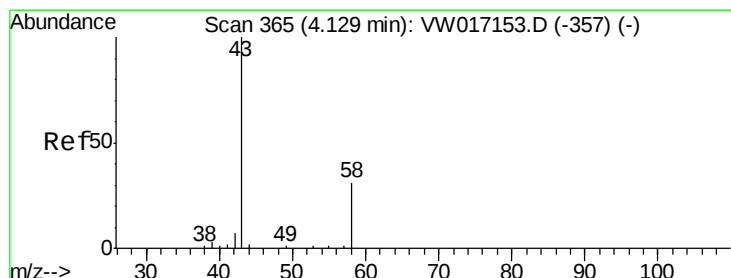
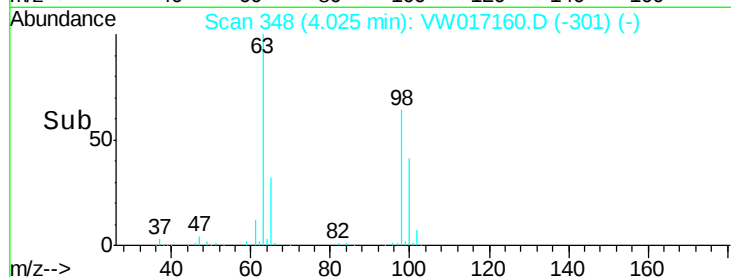
600

400

200

0

Time--> 3.95 4.00 4.05 4.10



#13

Acetone

Concen: 1.067 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW017160.D

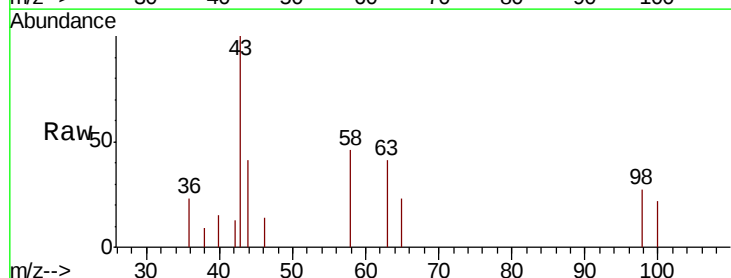
Acq: 11 Nov 2020 13:16

Tgt Ion: 43 Resp: 1005

Ion Ratio Lower Upper

43 100

58 62.3 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

800

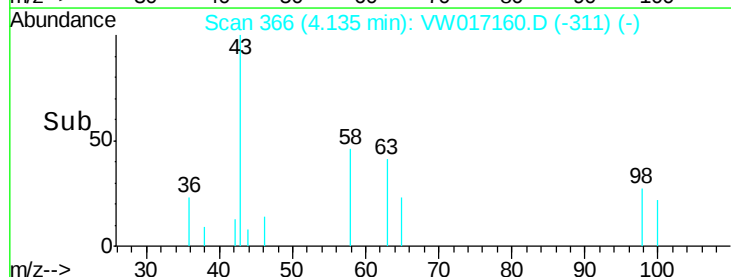
600

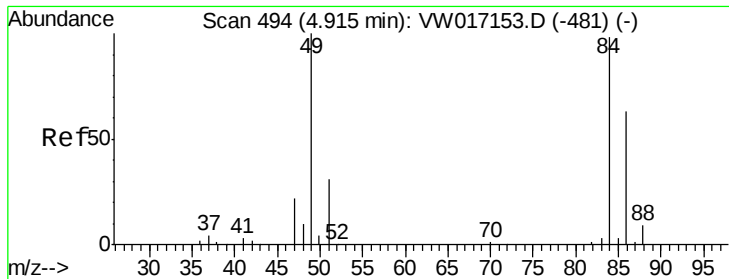
400

200

0

Time--> 4.10 4.15

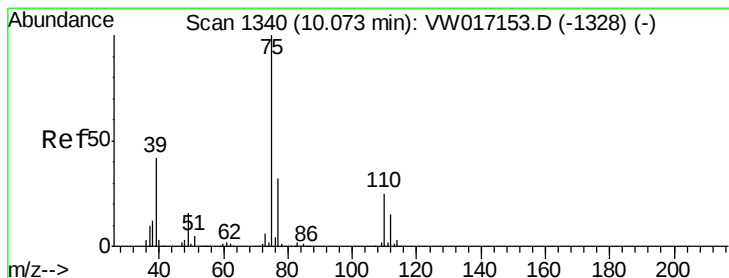
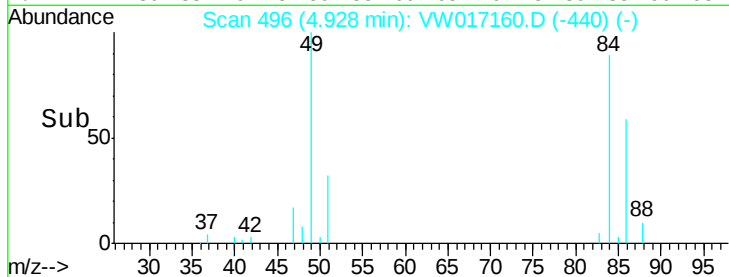
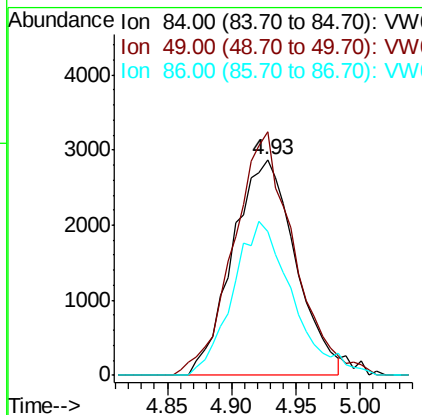
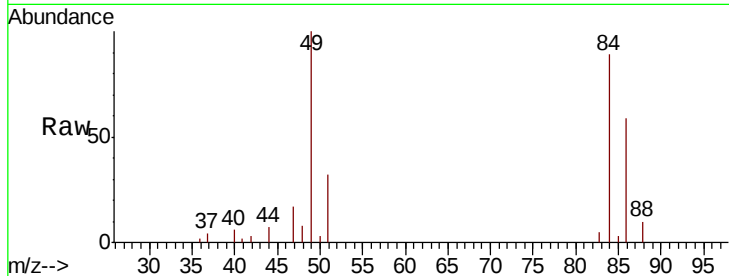




#16  
Methylene chloride  
Concen: 1.448 ug/L  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW017160.D  
Acq: 11 Nov 2020 13:16

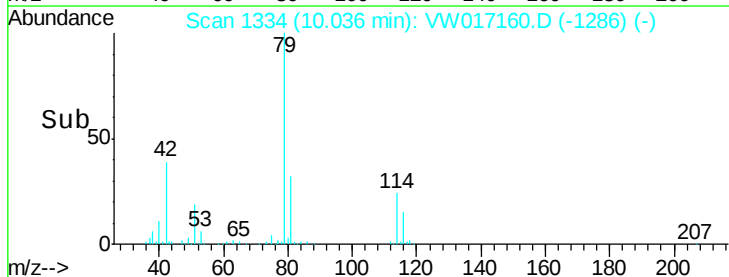
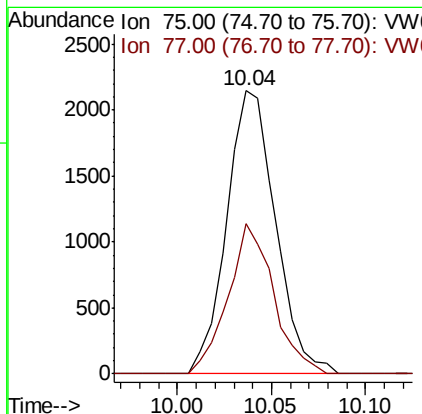
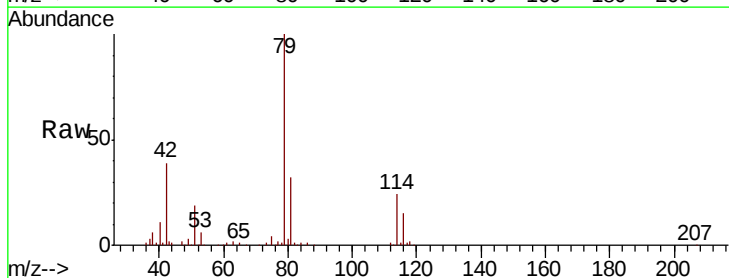
Instrument :  
MSVOA\_W  
ClientSampled :  
BG4D7

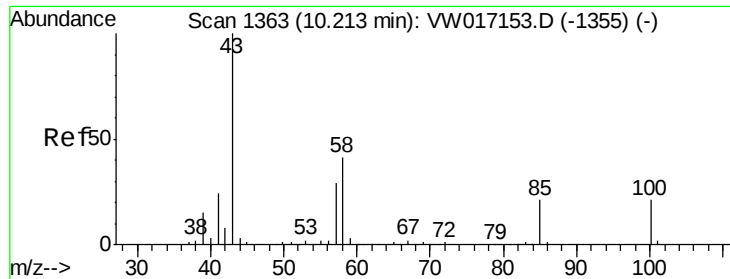
Tot Ion: 84 Resp: 9747  
Ion Ratio Lower Upper  
84 100  
49 112.7 72.3 134.3  
86 66.3 45.1 83.7



#42  
cis-1,3-Dichloropropene  
Concen: 0.449 ug/L  
RT: 10.04 min Scan# 1334  
Delta R.T. -0.04 min  
Lab File: VW017160.D  
Acq: 11 Nov 2020 13:16

Tgt Ion: 75 Resp: 3860  
Ion Ratio Lower Upper  
75 100  
77 53.1 22.0 41.0#

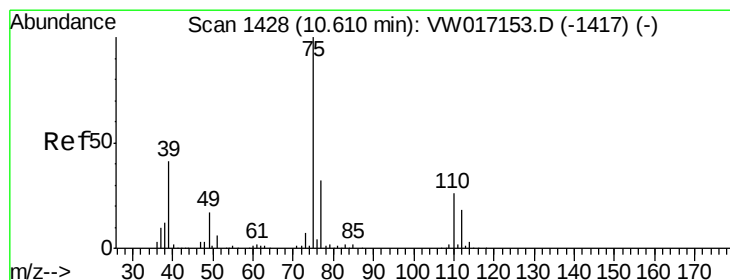
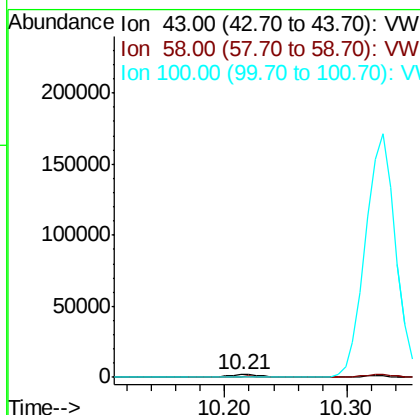
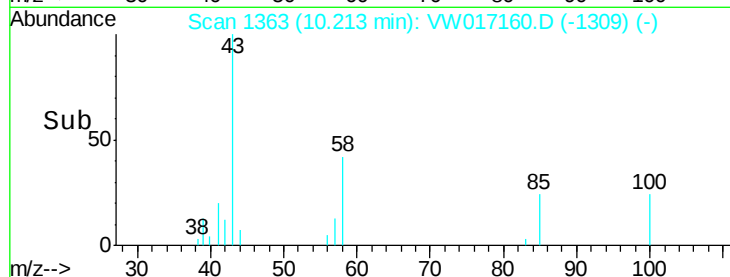
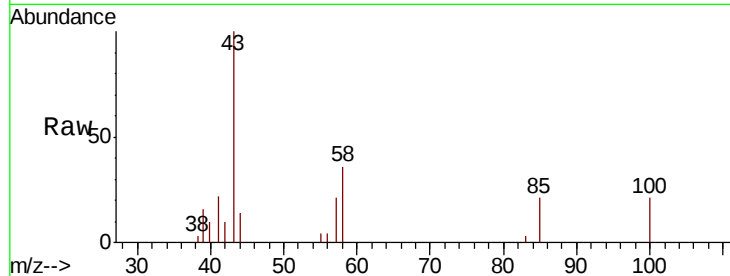




#43  
4-Methyl-2-pentanone  
Concen: 1.092 ug/L  
RT: 10.21 min Scan# 1363  
Delta R.T. -0.00 min  
Lab File: VW017160.D  
Acq: 11 Nov 2020 13:16

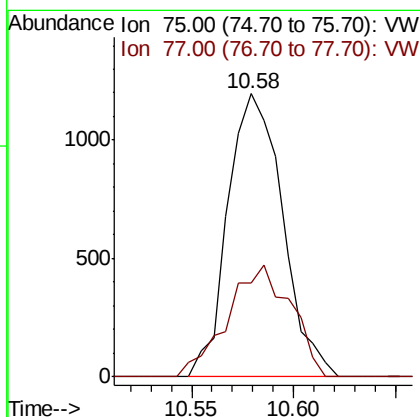
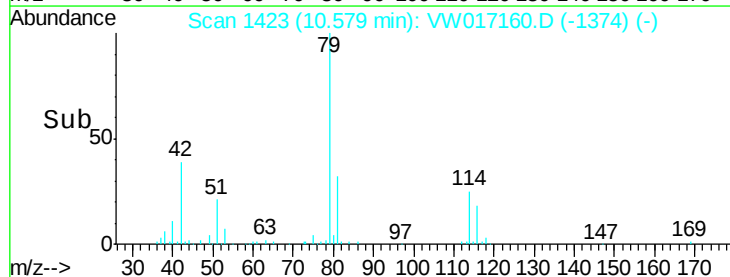
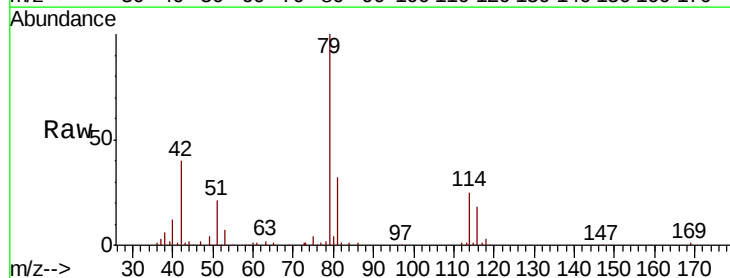
Instrument :  
MSVOA\_W  
ClientSampleId :  
BG4D7

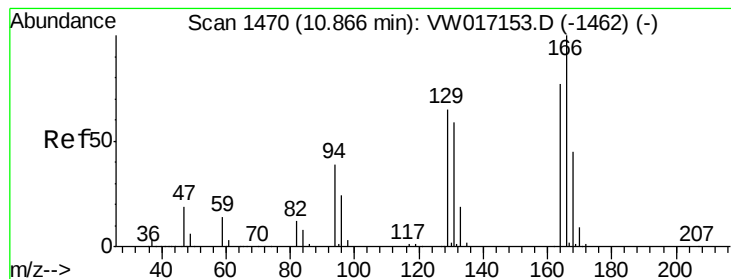
Tot Ion: 43 Resp: 3652  
Ion Ratio Lower Upper  
43 100  
58 38.5 35.0 52.6  
100 20.2 16.6 24.8



#45  
trans-1,3-Dichloropropene  
Concen: 0.303 ug/L  
RT: 10.58 min Scan# 1423  
Delta R.T. -0.03 min  
Lab File: VW017160.D  
Acq: 11 Nov 2020 13:16

Tgt Ion: 75 Resp: 2232  
Ion Ratio Lower Upper  
75 100  
77 33.1 22.1 41.1





#47

Tetrachloroethene

Concen: 6.259 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VW017160.D

Acq: 11 Nov 2020 13:16

Instrument :

MSVOA\_W

ClientSampleId :

BG4D7

Tot Ion:164 Resp: 36696

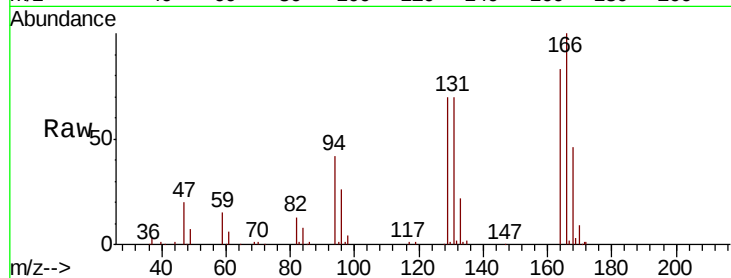
Ion Ratio Lower Upper

164 100

129 84.4 62.9 116.7

131 84.6 63.3 117.5

166 121.0 92.0 170.8



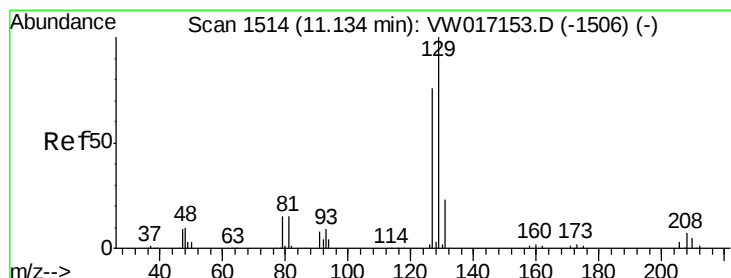
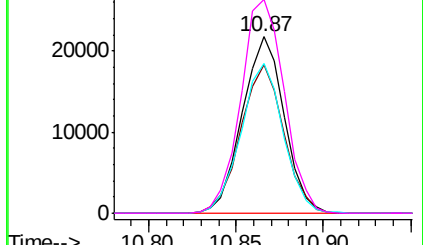
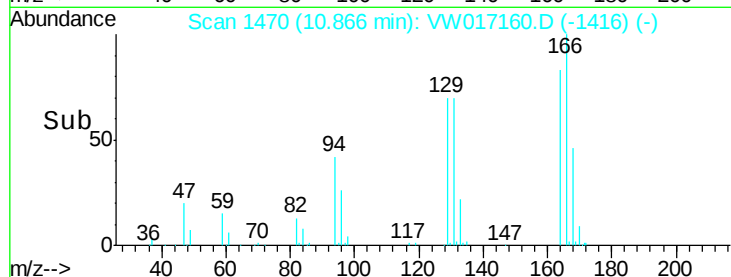
Abundance Ion 164.00 (163.70 to 164.70): V

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

Time-->



#50

Dibromochloromethane

Concen: 5.516 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.27 min

Lab File: VW017160.D

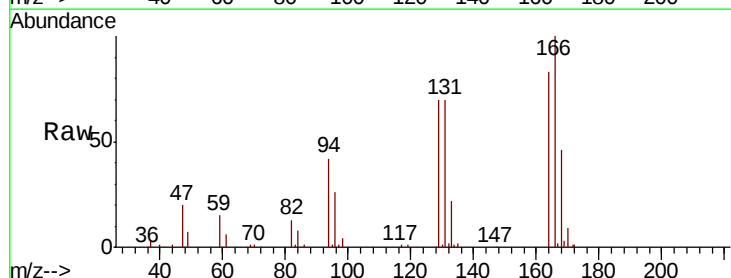
Acq: 11 Nov 2020 13:16

Tgt Ion:129 Resp: 31419

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

Time-->

