

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\  
 Data File : VV017132.D  
 Acq On : 25 Jun 2020 17:11  
 Operator : SY/MD  
 Sample : L3106-02  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXM4

Quant Time: Jun 26 01:36:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jun 26 01:31:34 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 163471   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 160780   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 72151    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 47660    | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 37782    | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 106.00% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 69742    | 3.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 74.80%  |
| 20) 2-Butanone-d5              | 3.95   | 46    | 116024   | 46.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.80%  |
| 24) Chloroform-d               | 4.38   | 84    | 103116   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 55140    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.20%  |
| 32) Benzene-d6                 | 5.07   | 84    | 191496   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.09   | 67    | 56213    | 4.50     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.00%  |
| 41) Toluene-d8                 | 7.34   | 98    | 167049   | 4.27     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.40%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 21414    | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.40%  |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 82351    | 41.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 83.12%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 38779    | 4.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.40%  |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 66113    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 99.20%  |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|------|------|----------|---------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12 | 101  | 790      | 0.091   | ug/L # | 19     |
| 12) 1,1-Dichloroethene         | 2.13 | 96   | 1912     | 0.244   | ug/L # | 1      |
| 13) Acetone                    | 2.24 | 43   | 6300     | 4.984   | ug/L   | 81     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96   | 2122     | 0.255   | ug/L   | 86     |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 150299   | 8.046   | ug/L   | 99     |
| 21) 2-Butanone                 | 4.11 | 43   | 816446   | 342.649 | ug/L # | 50     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96   | 2482     | 0.218   | ug/L   | 85     |
| 30) Cyclohexane                | 4.71 | 56   | 3003     | 0.164   | ug/L # | 16     |
| 34) Trichloroethene            | 5.94 | 95   | 6539     | 0.530   | ug/L   | 99     |
| 35) Methylcyclohexane          | 6.10 | 83   | 15038    | 0.785   | ug/L # | 18     |
| 37) 1,2-Dichloropropane        | 6.10 | 63   | 7570     | 0.726   | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene    | 7.02 | 75   | 1776     | 0.115   | ug/L   | 85     |
| 46) trans-1,3-Dichloropropene  | 7.65 | 75   | 1197     | 0.089   | ug/L   | 85     |
| 47) 1,1,2-Trichloroethane      | 7.86 | 97   | 12124    | 1.640   | ug/L   | 94     |
| 50) 2-Hexanone                 | 8.11 | 43   | 11008    | 2.570   | ug/L # | 69     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\  
Data File : VV017132.D  
Acq On : 25 Jun 2020 17:11  
Operator : SY/MD  
Sample : L3106-02  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXM4

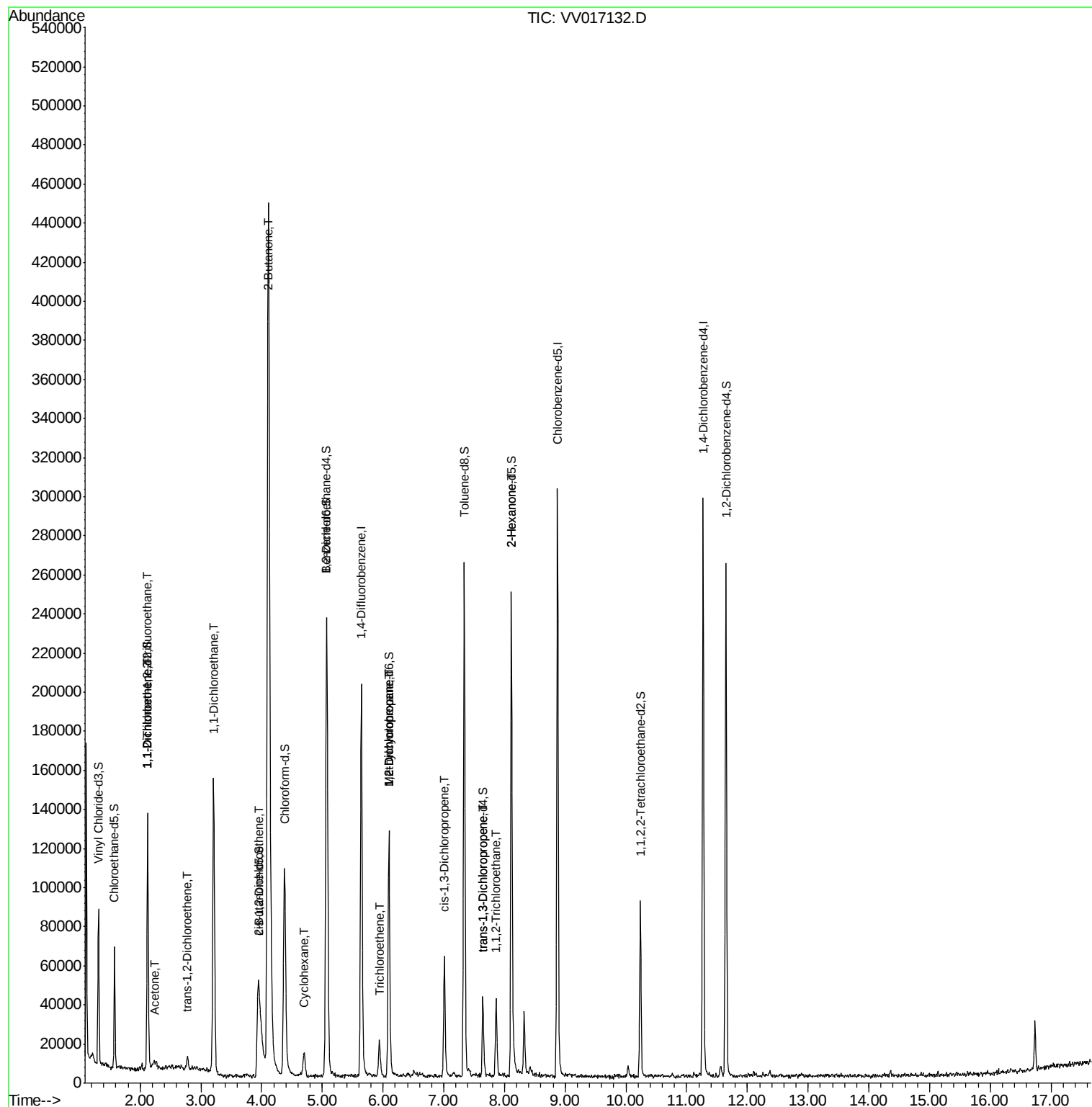
Quant Time: Jun 26 01:36:32 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jun 26 01:31:34 2020  
Response via : Initial Calibration

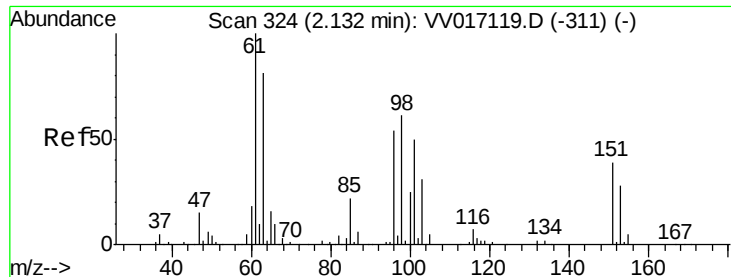
| Internal Standards                                                         | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                      |      |      |          |      |       |          |
| (#) = qualifier out of range (m) = manual integration (+) = signals summed |      |      |          |      |       |          |

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062520\  
Data File : VV017132.D  
Acq On : 25 Jun 2020 17:11  
Operator : SY/MD  
Sample : L3106-02  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXM4

Quant Time: Jun 26 01:36:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jun 26 01:31:34 2020  
Response via : Initial Calibration





#10

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

Concen: 0.091 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

Instrument :

MSVOA\_V

ClientSampled :

BFXM4

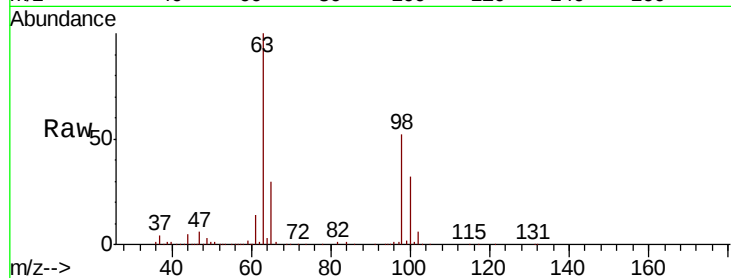
Tot Ion:101 Resp: 790

Ion Ratio Lower Upper

101 100

85 2.7 35.4 53.2#

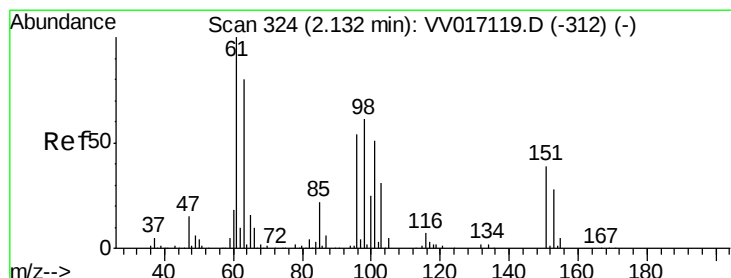
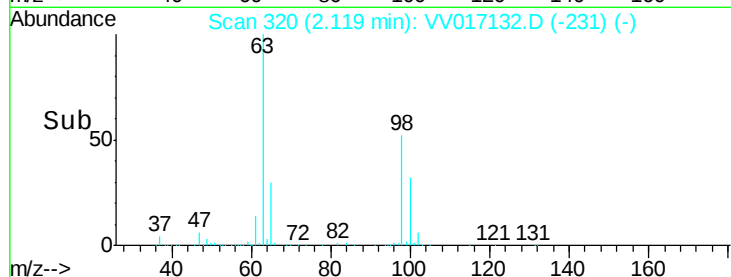
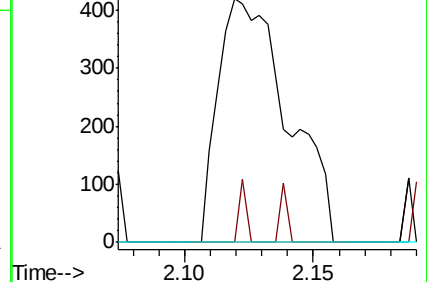
151 0.0 63.9 95.9#



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



#12

1,1-Dichloroethene

Concen: 0.244 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

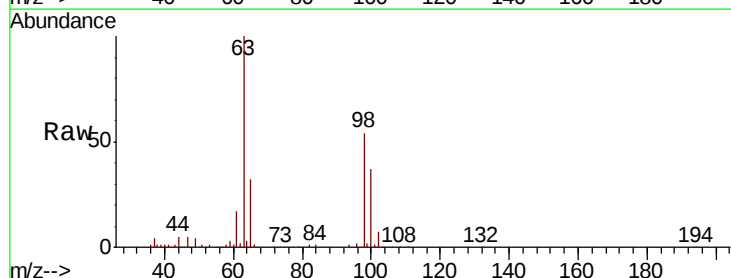
Tgt Ion: 96 Resp: 1912

Ion Ratio Lower Upper

96 100

61 697.2 125.0 232.2#

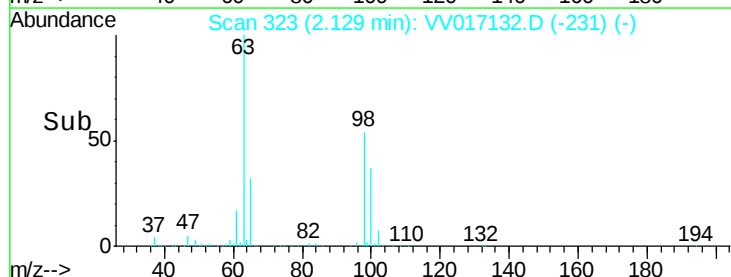
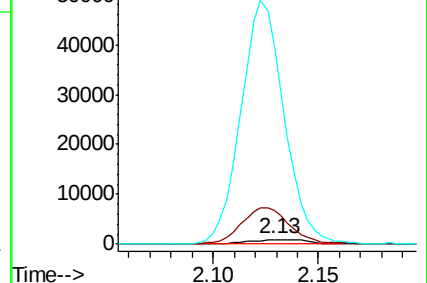
63 4122.8 109.8 203.8#

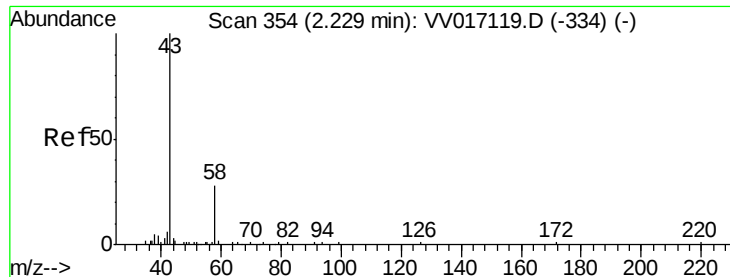


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 4.984 ug/L

RT: 2.24 min Scan# 357

Delta R.T. 0.01 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

Instrument :

MSVOA\_V

ClientSampled :

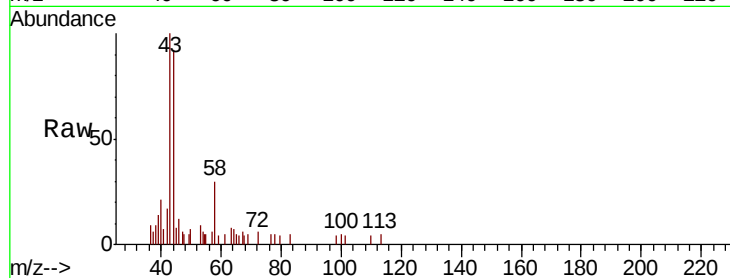
BFXM4

Tot Ion: 43 Resp: 6300

Ion Ratio Lower Upper

43 100

58 39.4 0.0 58.4



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.24

2500

2000

1500

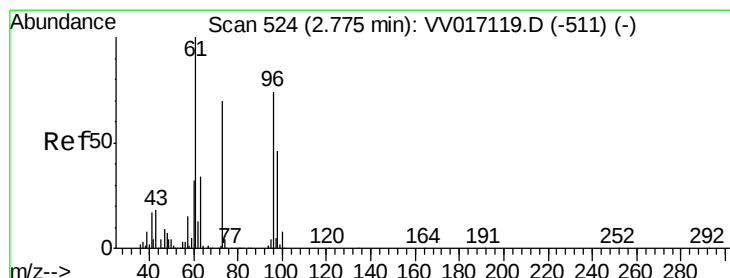
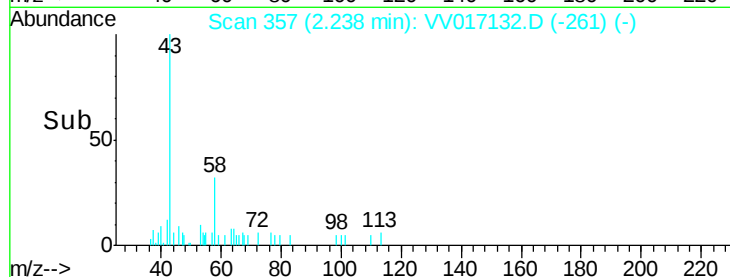
1000

500

0

Time-->

2.15 2.20 2.25



#18

trans-1,2-Dichloroethene

Concen: 0.255 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.01 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

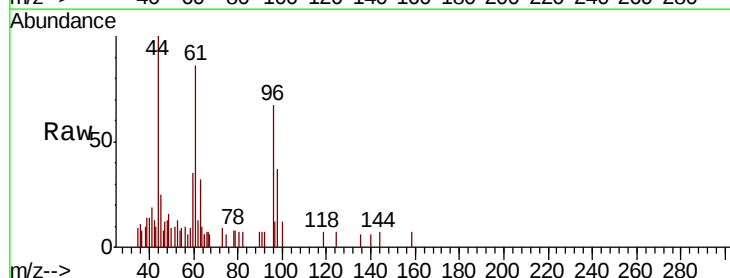
Tgt Ion: 96 Resp: 2122

Ion Ratio Lower Upper

96 100

61 126.8 102.3 189.9

98 54.6 44.7 82.9



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

2000

1500

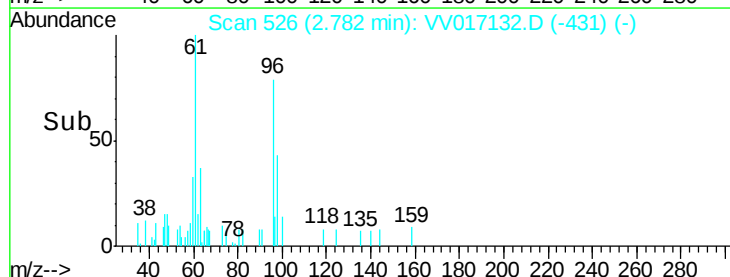
1000

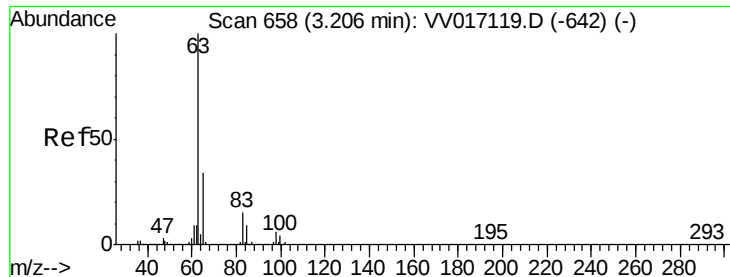
500

0

Time-->

2.75 2.80

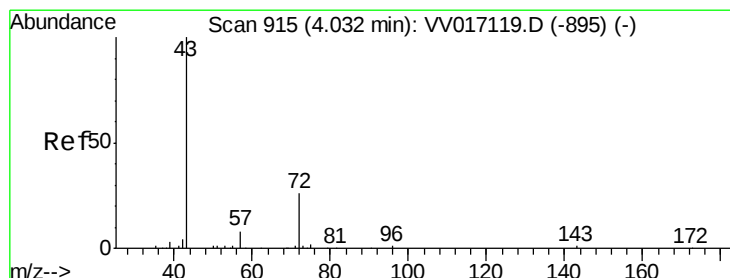
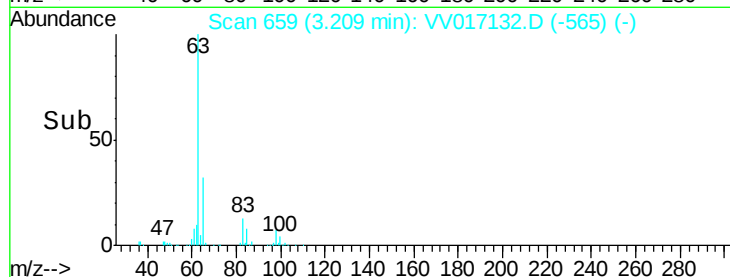
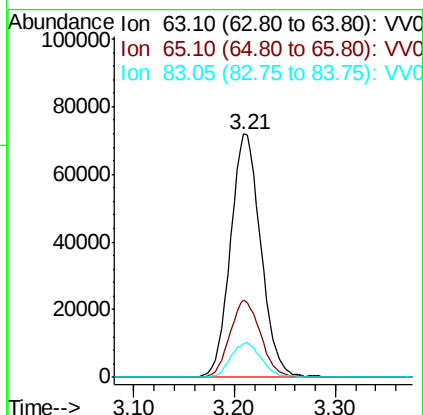
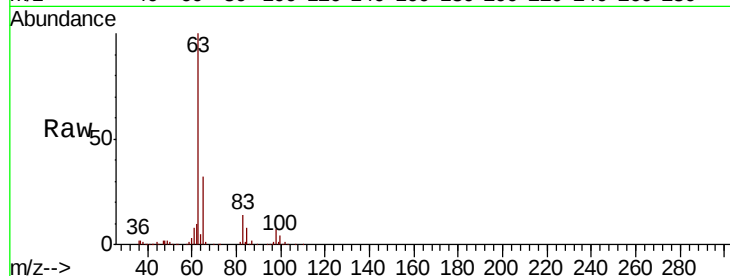




#19  
 1,1-Dichloroethane  
 Concen: 8.046 ug/L  
 RT: 3.21 min Scan# 659  
 Delta R.T. 0.00 min  
 Lab File: VV017132.D  
 Acq: 25 Jun 2020 17:11

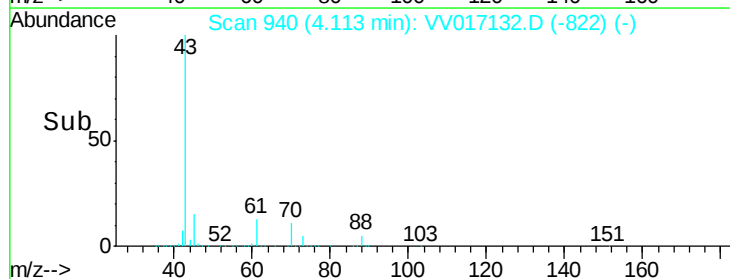
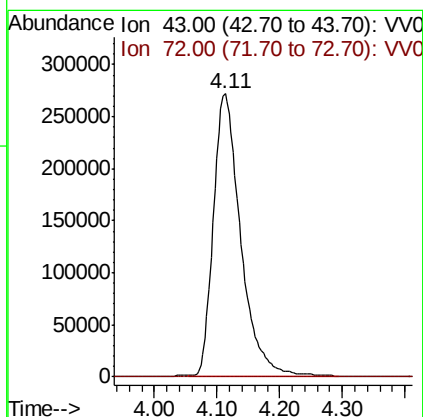
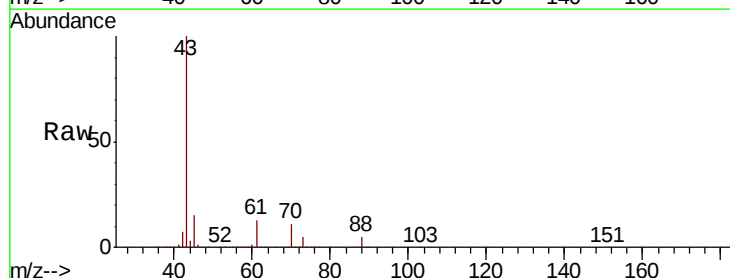
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXM4

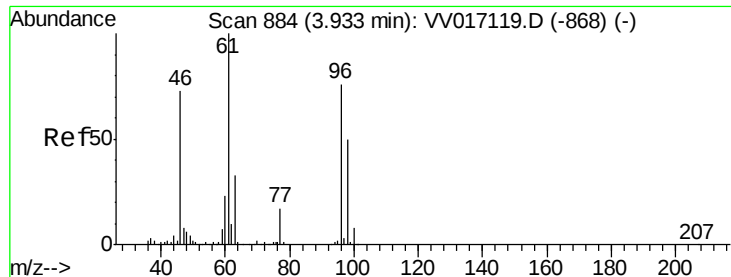
Tot Ion: 63 Resp: 150299  
 Ion Ratio Lower Upper  
 63 100  
 65 31.9 21.8 40.4  
 83 13.6 9.7 17.9



#21  
 2-Butanone  
 Concen: 342.649 ug/L  
 RT: 4.11 min Scan# 940  
 Delta R.T. 0.08 min  
 Lab File: VV017132.D  
 Acq: 25 Jun 2020 17:11

Tgt Ion: 43 Resp: 816446  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 12.4 37.4#





#22

cis-1,2-Dichloroethene

Concen: 0.218 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

BFXM4

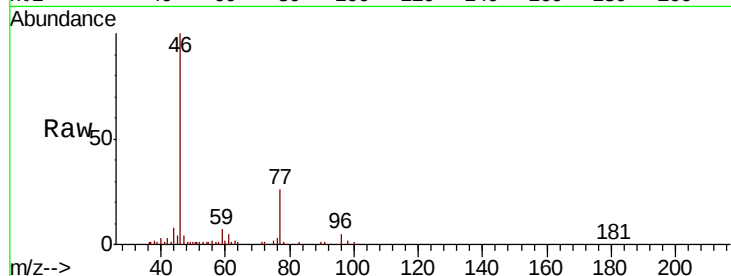
Tot Ion: 96 Resp: 2482

Ion Ratio Lower Upper

96 100

61 112.9 91.0 169.0

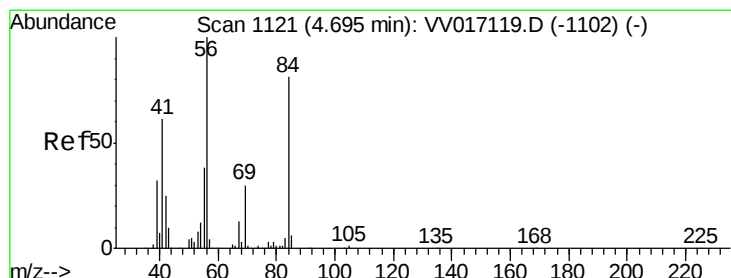
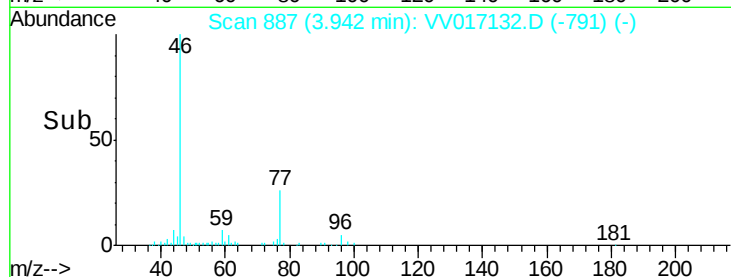
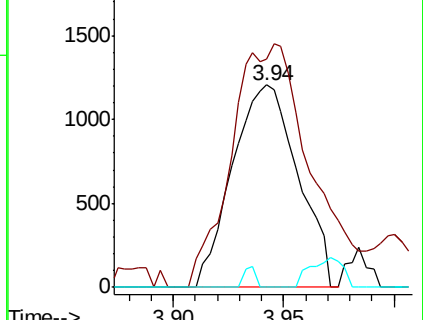
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0



#30

Cyclohexane

Concen: 0.164 ug/L

RT: 4.71 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

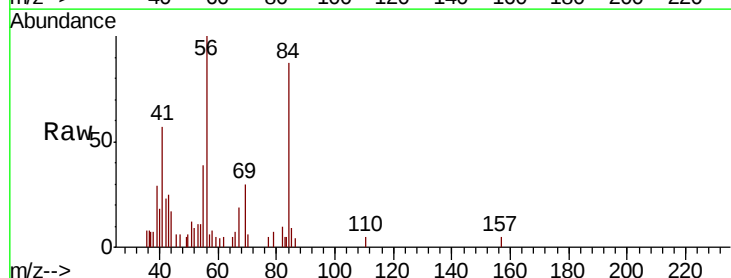
Tgt Ion: 56 Resp: 3003

Ion Ratio Lower Upper

56 100

69 62.4 24.4 36.6#

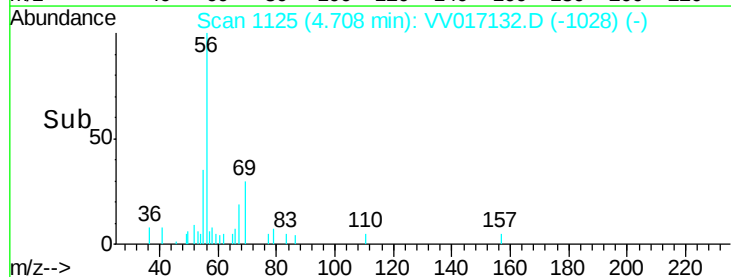
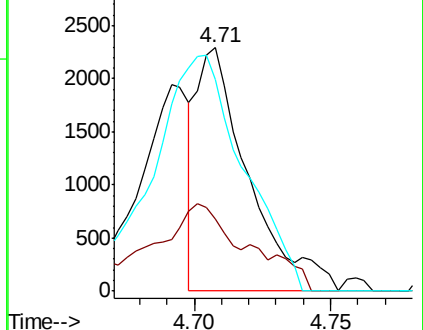
84 174.1 69.9 104.9#

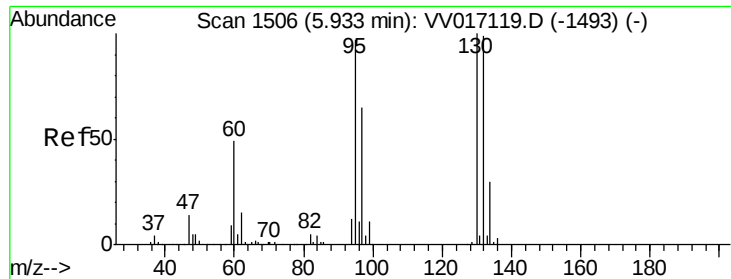


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

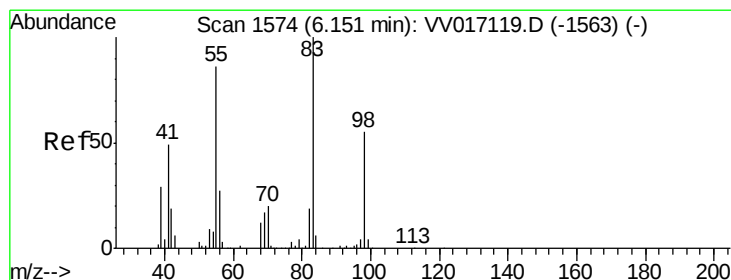
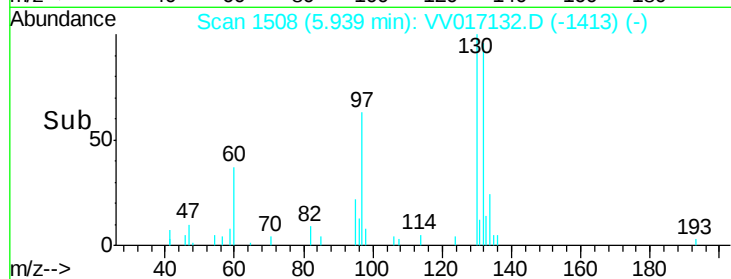
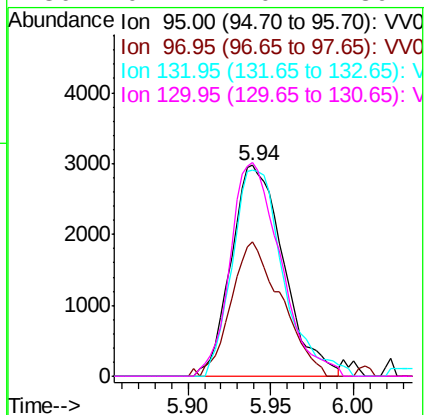
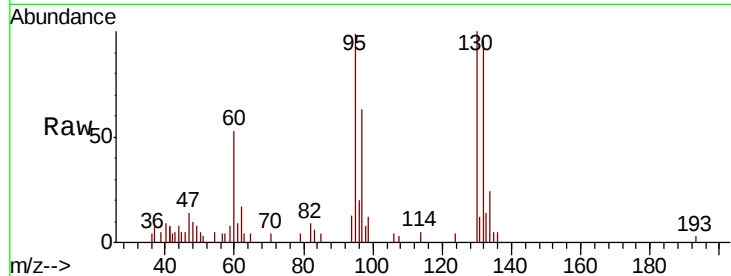




#34  
 Trichloroethene  
 Concen: 0.530 ug/L  
 RT: 5.94 min Scan# 1508  
 Delta R.T. 0.01 min  
 Lab File: VV017132.D  
 Acq: 25 Jun 2020 17:11

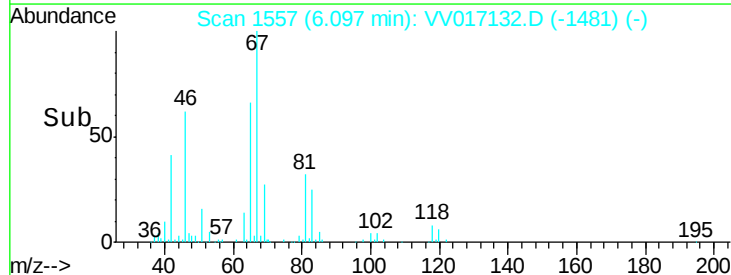
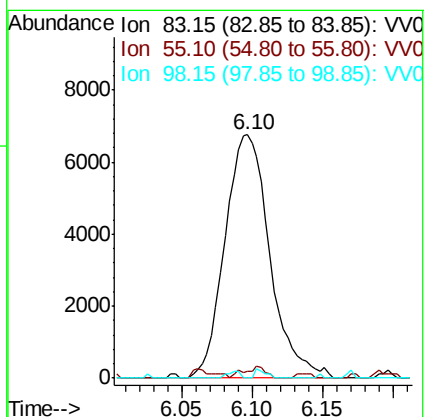
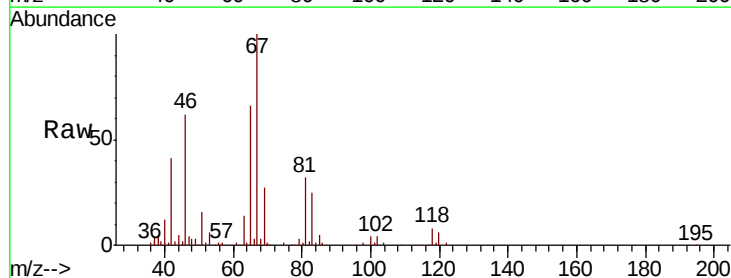
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXM4

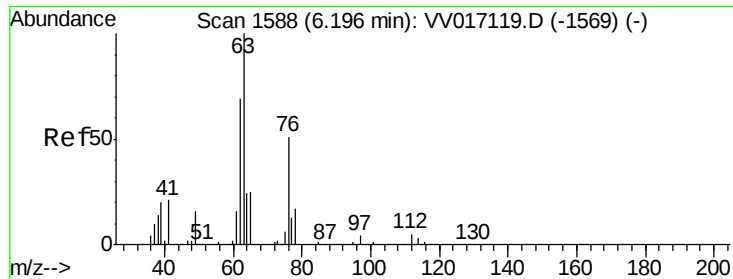
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 6539  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 63.7  | 45.3  | 84.1  |
| 132      | 97.7  | 68.8  | 127.8 |
| 130      | 101.4 | 70.2  | 130.4 |



#35  
 Methylcyclohexane  
 Concen: 0.785 ug/L  
 RT: 6.10 min Scan# 1557  
 Delta R.T. -0.05 min  
 Lab File: VV017132.D  
 Acq: 25 Jun 2020 17:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 15038 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 1.6   | 63.6  | 95.4# |
| 98       | 0.9   | 38.8  | 58.2# |





#37

1,2-Dichloropropane

Concen: 0.726 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

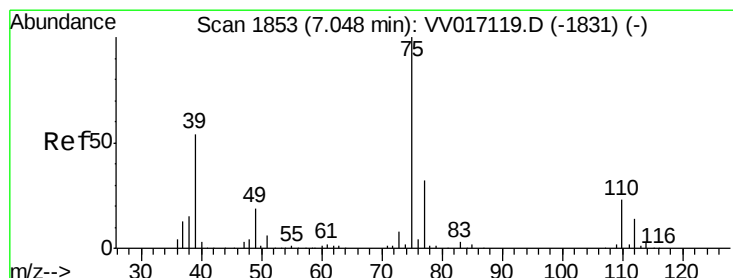
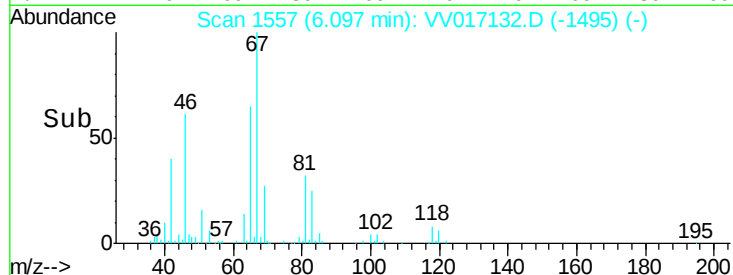
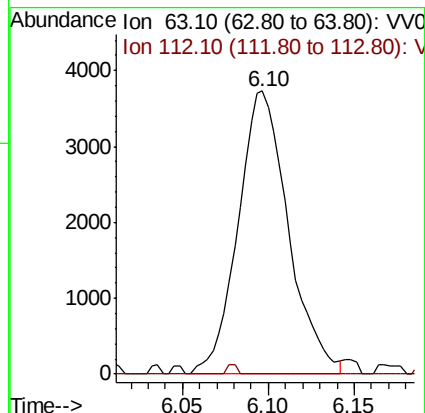
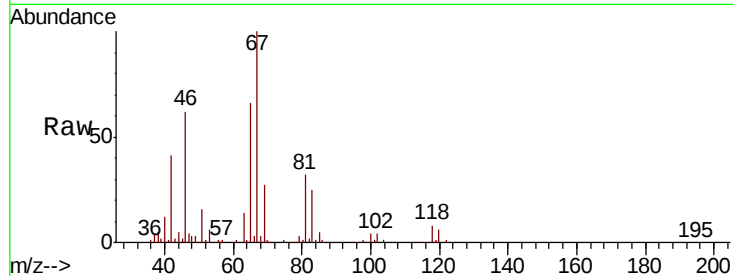
BFXM4

Tot Ion: 63 Resp: 7570

Ion Ratio Lower Upper

63 100

112 0.7 4.4 6.6#



#39

cis-1,3-Dichloropropene

Concen: 0.115 ug/L

RT: 7.02 min Scan# 1843

Delta R.T. -0.03 min

Lab File: VV017132.D

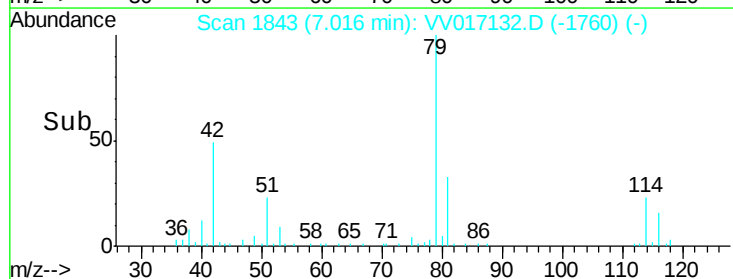
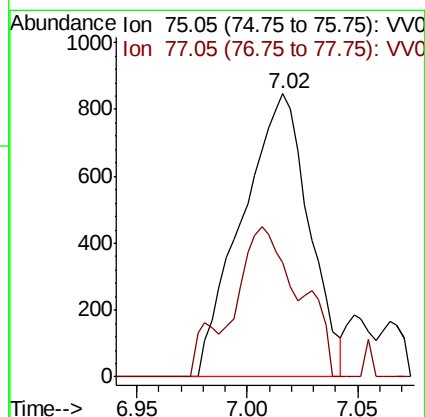
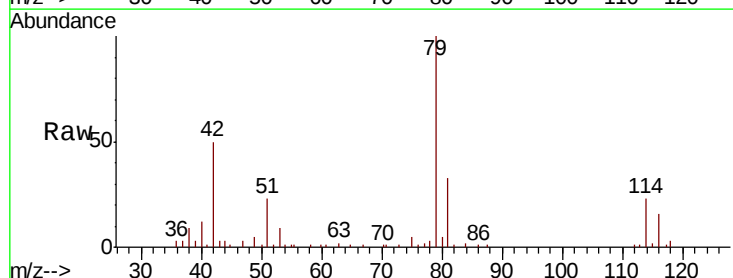
Acq: 25 Jun 2020 17:11

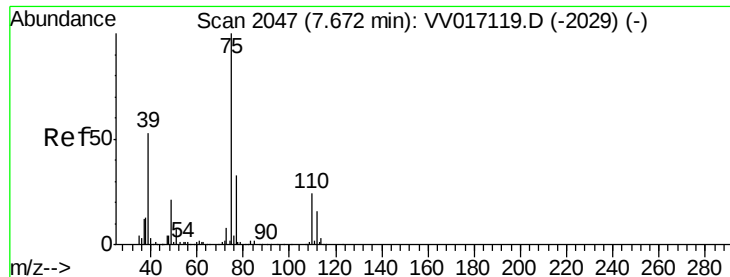
Tgt Ion: 75 Resp: 1776

Ion Ratio Lower Upper

75 100

77 40.3 22.3 41.5





#46

trans-1,3-Dichloropropene

Concen: 0.089 ug/L

RT: 7.65 min Scan# 2041

Delta R.T. -0.02 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

Instrument :

MSVOA\_V

ClientSampleId :

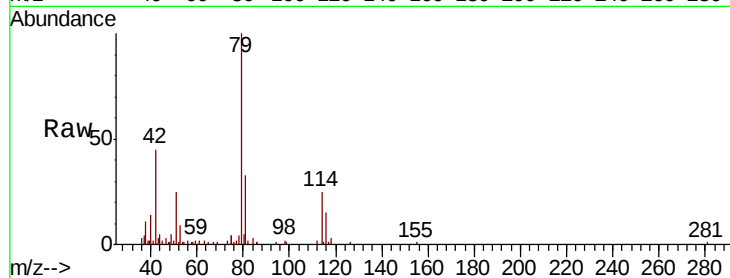
BFXM4

Tot Ion: 75 Resp: 1197

Ion Ratio Lower Upper

75 100

77 23.5 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

800

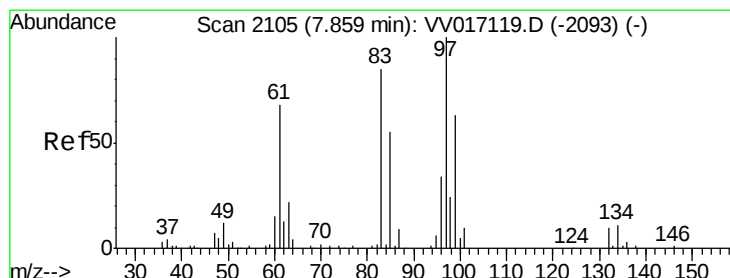
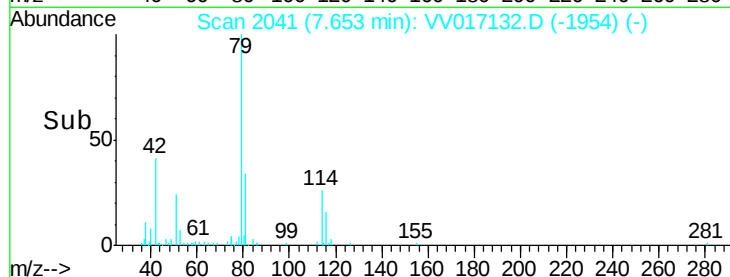
600

400

200

0

Time-->



#47

1,1,2-Trichloroethane

Concen: 1.640 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VV017132.D

Acq: 25 Jun 2020 17:11

Tgt Ion: 97 Resp: 12124

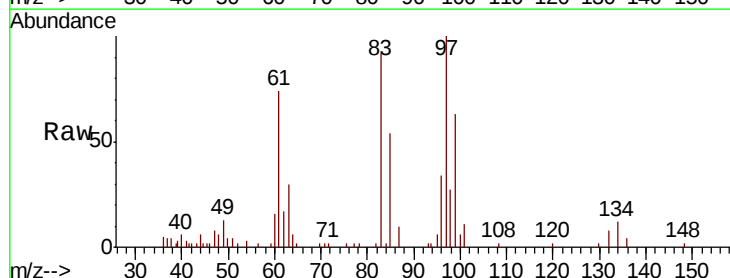
Ion Ratio Lower Upper

97 100

99 63.3 43.6 81.0

83 92.3 57.4 106.6

85 53.5 38.8 72.0



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

10000

8000

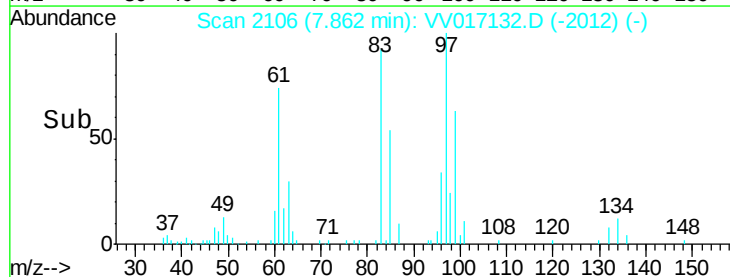
6000

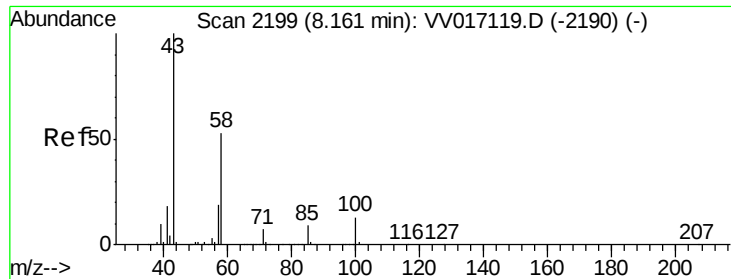
4000

2000

0

Time-->





#50  
 2-Hexanone  
 Concen: 2.570 ug/L  
 RT: 8.11 min Scan# 2184  
 Delta R.T. -0.05 min  
 Lab File: VV017132.D  
 Acq: 25 Jun 2020 17:11

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXM4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 30.0  | 41.6  | 62.4# |
| 57      | 33.8  | 15.4  | 23.0# |
| 100     | 2.4   | 10.1  | 15.1# |

