

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102020\  
 Data File : VV019031.D  
 Acq On : 20 Oct 2020 23:53  
 Operator : SY/MD  
 Sample : L4430-09 10X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Oct 21 08:05:10 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 21 07:57:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 286814   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 287856   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 149131   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 71794    | 30.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 60.82%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 73033    | 39.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 78.08%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 134161   | 30.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.20%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 161264   | 97.99    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.99%  |
| 24) Chloroform-d               | 4.37    | 84    | 170364   | 40.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 80.32%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 124904   | 44.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.72%  |
| 32) Benzene-d6                 | 5.07    | 84    | 318841   | 37.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 75.88%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 108765   | 40.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 80.96%  |
| 41) Toluene-d8                 | 7.34    | 98    | 280418   | 37.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 74.40%# |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 50961    | 38.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.60%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 91011    | 91.18    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.18%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 131852   | 41.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 83.74%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 130984   | 43.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.34%  |

## Target Compounds

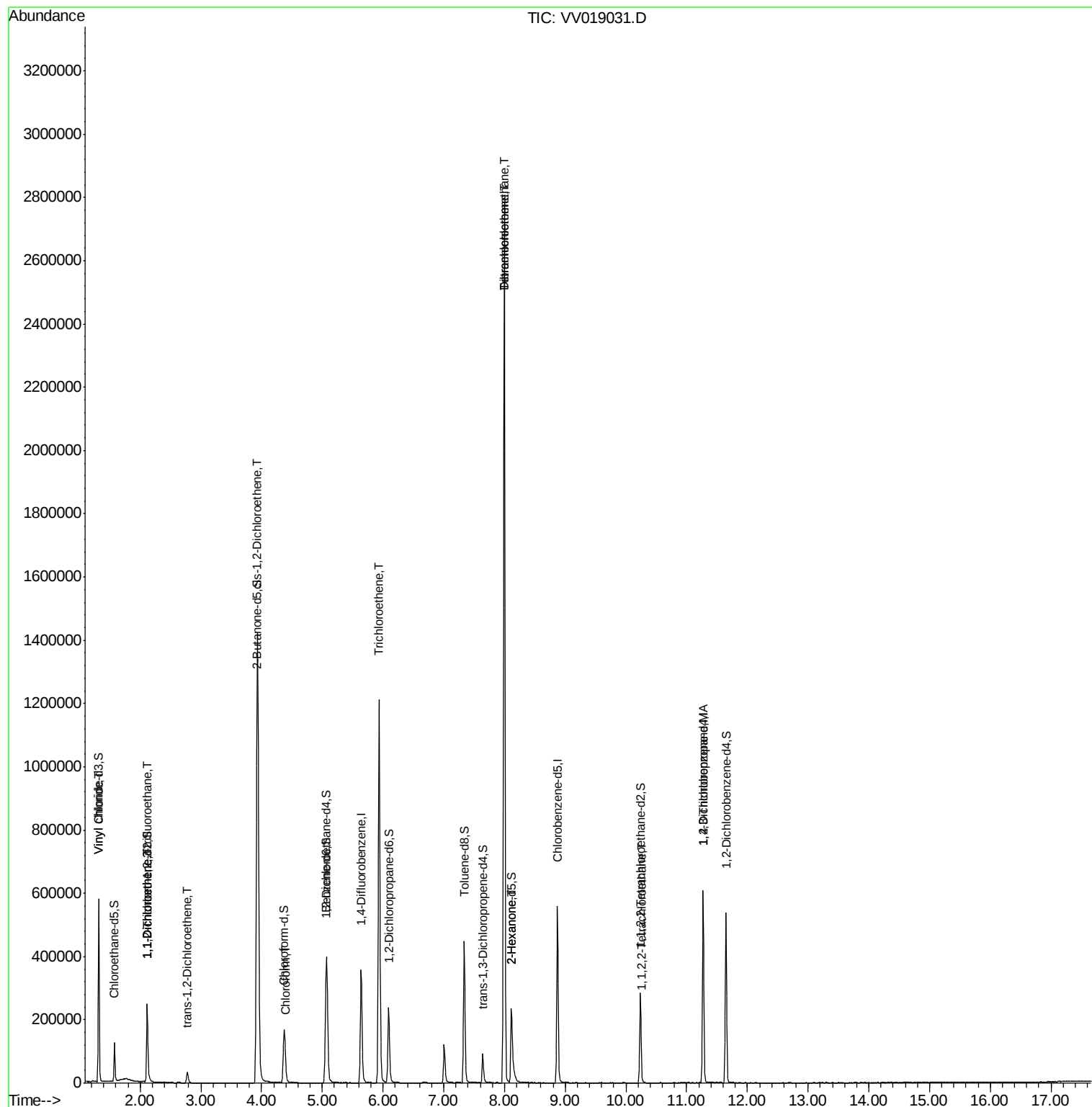
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 5) Vinyl chloride              | 1.32  | 62   | 291216   | 107.573 | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101  | 1243     | 0.668   | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.13  | 96   | 7240     | 3.840   | ug/L # | 1      |
| 17) trans-1,2-Dichloroethene   | 2.78  | 96   | 12434    | 5.940   | ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 3.93  | 96   | 726337   | 327.413 | ug/L   | 98     |
| 25) Chloroform                 | 4.41  | 83   | 4883     | 1.193   | ug/L   | 92     |
| 34) Trichloroethene            | 5.94  | 95   | 401578   | 157.814 | ug/L   | 98     |
| 46) Tetrachloroethene          | 8.00  | 164  | 595275   | 331.937 | ug/L   | 99     |
| 48) 2-Hexanone                 | 8.12  | 43   | 12050    | 4.665   | ug/L # | 73     |
| 49) Dibromochloromethane       | 8.00  | 129  | 529542   | 227.640 | ug/L # | 10     |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 2277     | 0.763   | ug/L # | 85     |
| 59) 1,2,3-Trichloropropane     | 11.27 | 75   | 18817    | 6.581   | ug/L   | 89     |

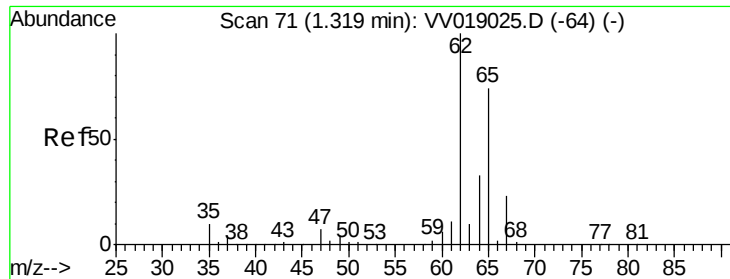
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102020\  
Data File : VV019031.D  
Acq On : 20 Oct 2020 23:53  
Operator : SY/MD  
Sample : L4430-09 10X  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Oct 21 08:05:10 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Oct 21 07:57:26 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 107.573 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

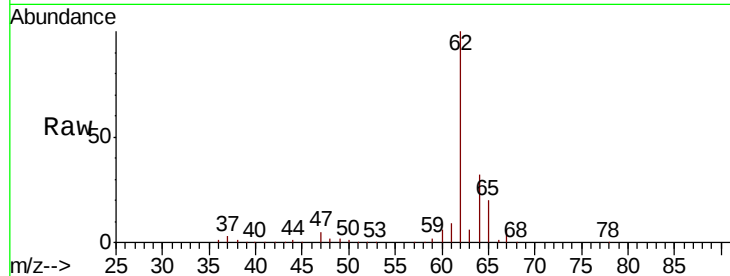
Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 62 Resp: 291216

Ion Ratio Lower Upper

62 100

64 32.1 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VV019031.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VV019031.D (-1) (-)

1.32

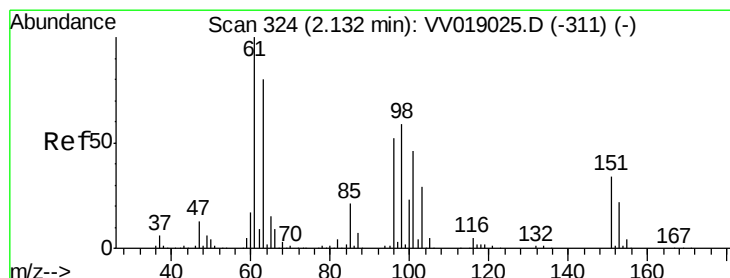
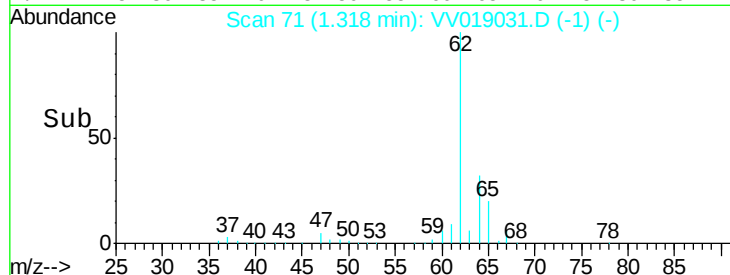
300000

200000

100000

0

Time--> 1.25 1.30 1.35 1.40



#10

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

Concen: 0.668 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.02 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

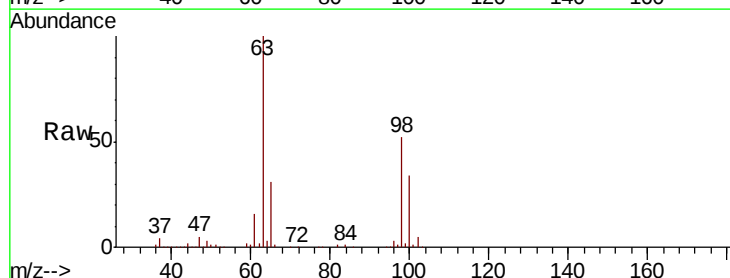
Tgt Ion: 101 Resp: 1243

Ion Ratio Lower Upper

101 100

85 3.4 35.0 52.4#

151 0.0 59.7 89.5#



Abundance Ion 101.00 (100.70 to 101.70): VV019031.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV019031.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV019031.D (-231) (-)

2.12

1000

800

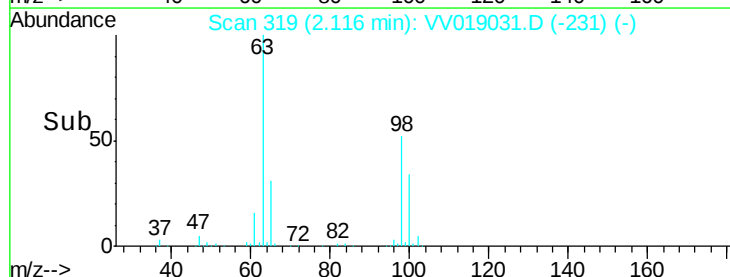
600

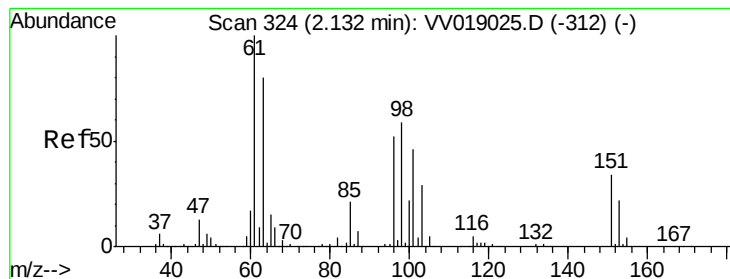
400

200

0

Time--> 2.08 2.10 2.12 2.14 2.16





#12

1,1-Dichloroethene

Concen: 3.840 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

Instrument :  
MSVOA\_V  
ClientSampled :

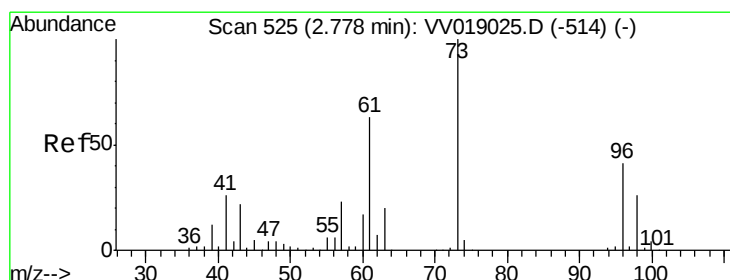
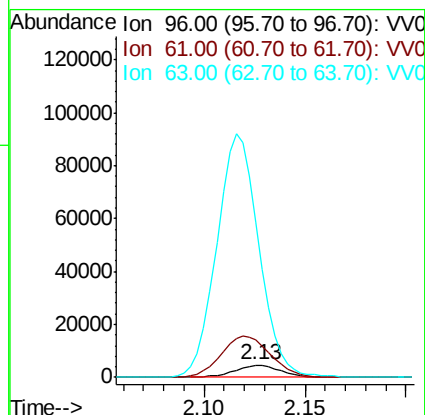
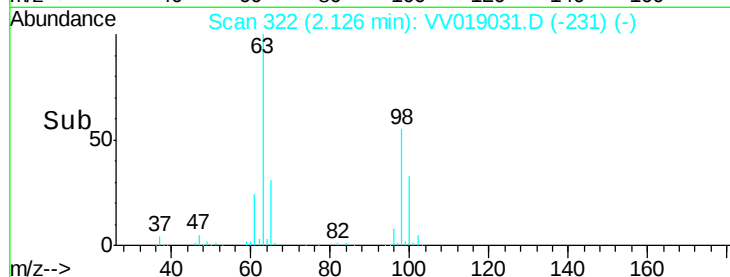
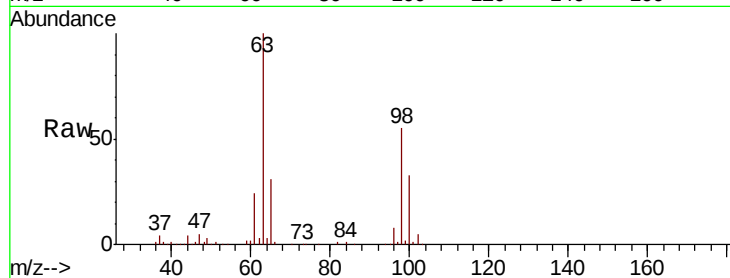
Tot Ion: 96 Resp: 7240

Ion Ratio Lower Upper

96 100

61 306.5 133.5 247.9#

63 1282.8 102.1 189.7#



#17

trans-1,2-Dichloroethene

Concen: 5.940 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

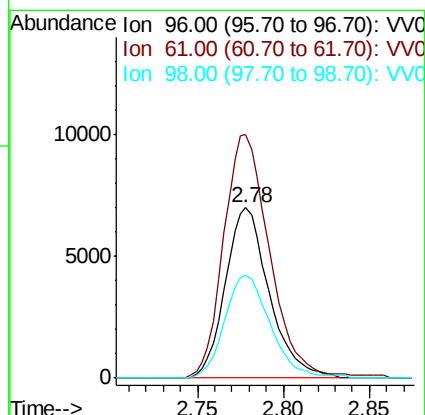
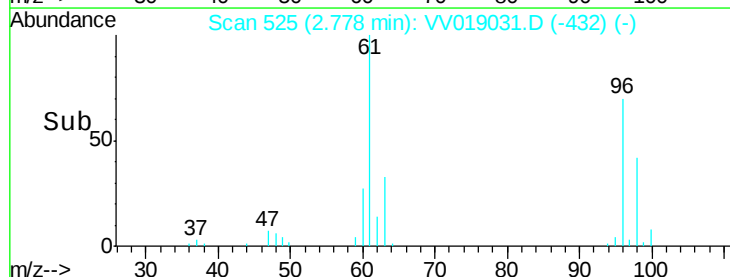
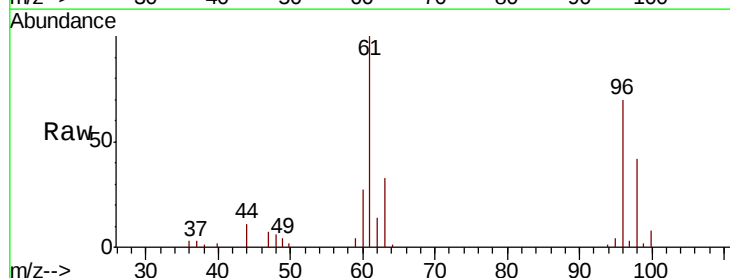
Tgt Ion: 96 Resp: 12434

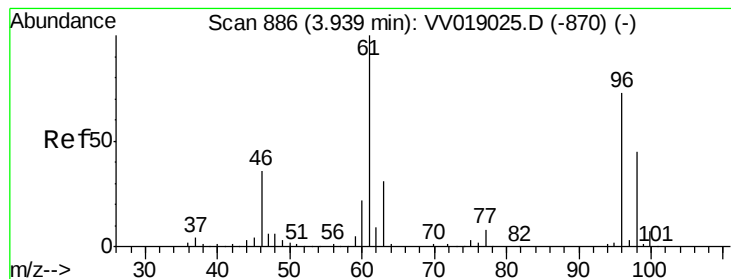
Ion Ratio Lower Upper

96 100

61 143.1 102.8 190.8

98 60.5 44.0 81.6



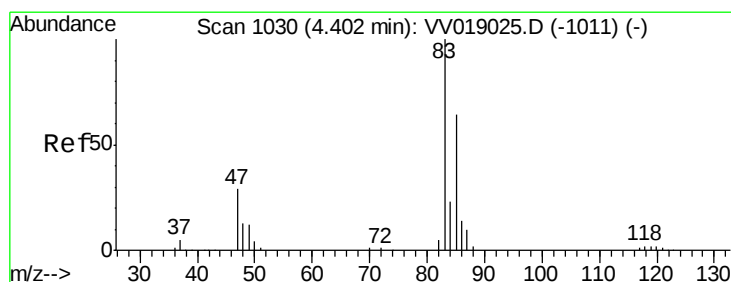
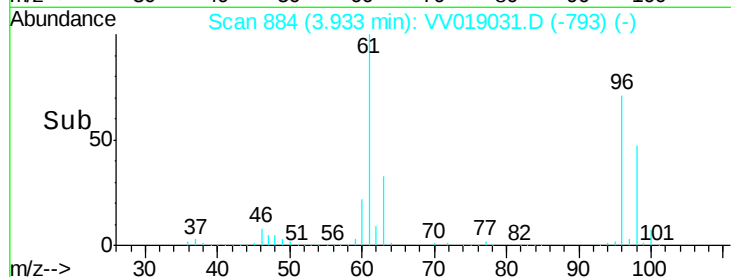
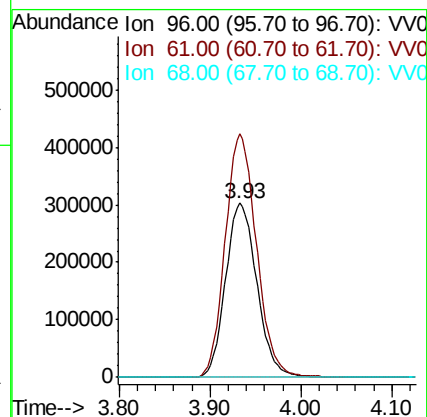
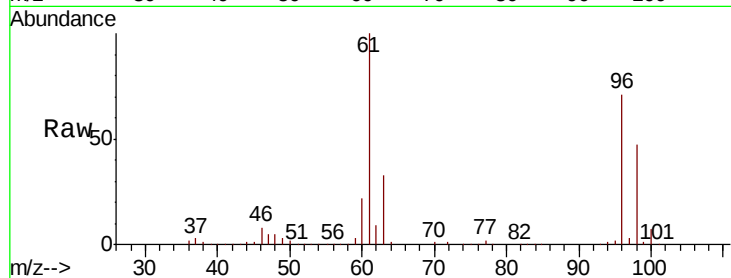


#20

cis-1,2-Dichloroethene  
 Concen: 327.413 ug/L  
 RT: 3.93 min Scan# 884  
 Delta R.T. -0.01 min  
 Lab File: VV019031.D  
 Acq: 20 Oct 2020 23:53

Instrument :  
 MSVOA\_V  
 ClientSampleId :

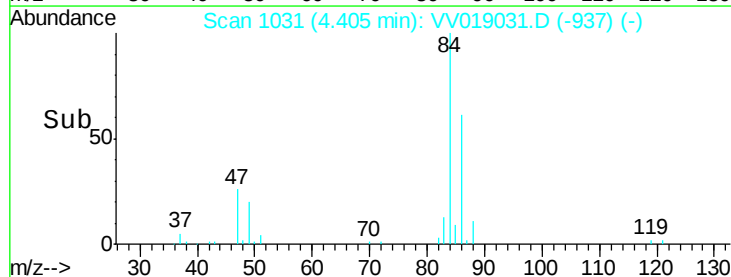
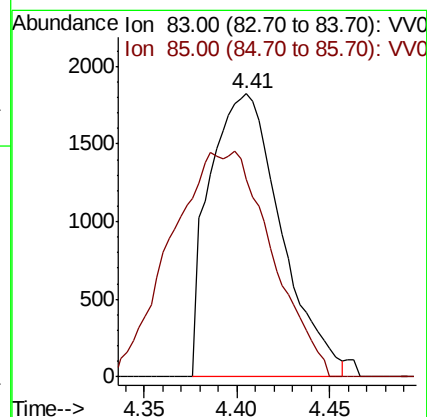
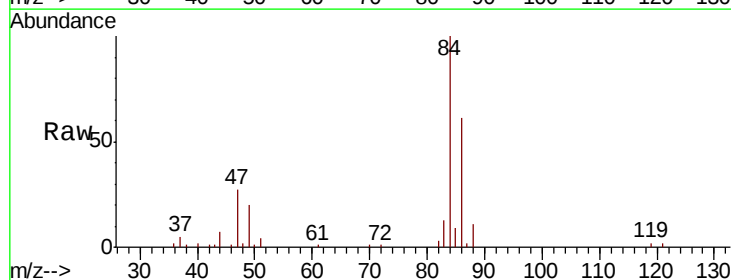
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.0 | 96.1  | 178.5 |
| 68      | 0.0   | 0.0   | 0.0   |

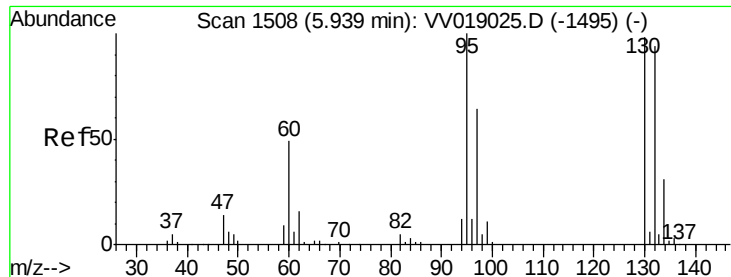


#25

Chloroform  
 Concen: 1.193 ug/L  
 RT: 4.41 min Scan# 1031  
 Delta R.T. 0.00 min  
 Lab File: VV019031.D  
 Acq: 20 Oct 2020 23:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 69.9  | 44.6  | 82.8  |





#34

Trichloroethene

Concen: 157.814 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

Instrument :

MSVOA\_V

ClientSampled :

Tot Ion: 95 Resp: 401578

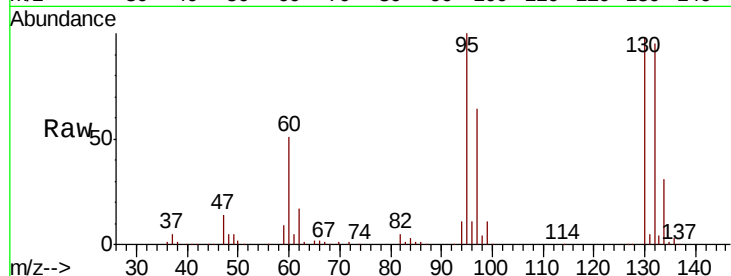
Ion Ratio Lower Upper

95 100

97 64.4 44.7 82.9

132 94.8 67.0 124.4

130 97.6 70.8 131.6

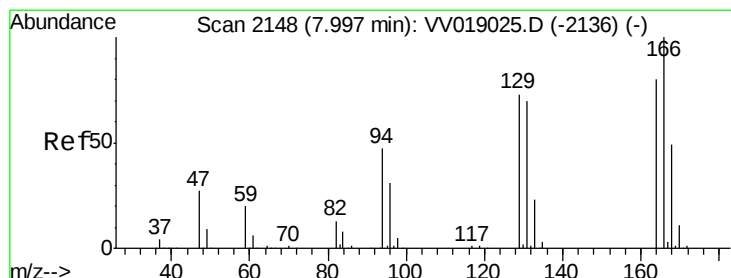
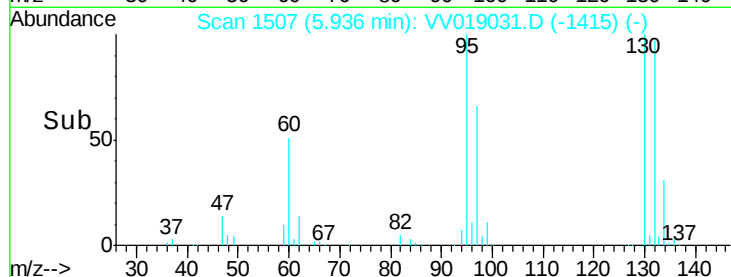
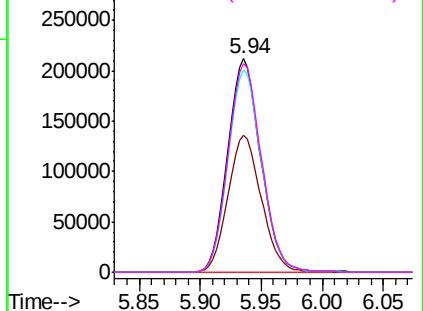


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#46

Tetrachloroethene

Concen: 331.937 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

Tgt Ion: 164 Resp: 595275

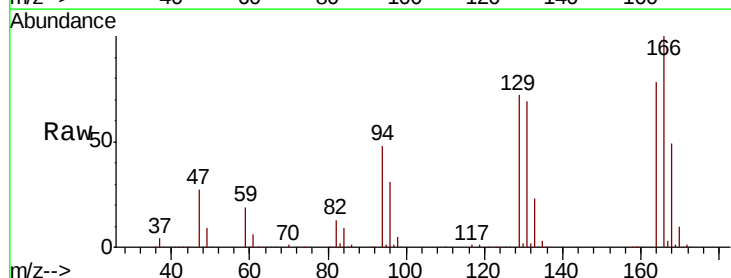
Ion Ratio Lower Upper

164 100

129 92.5 65.0 120.8

131 89.4 62.9 116.7

166 128.8 91.1 169.3

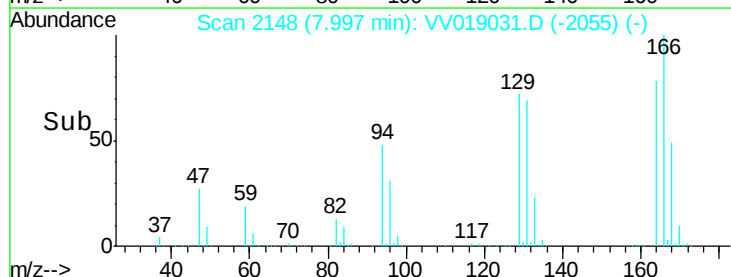
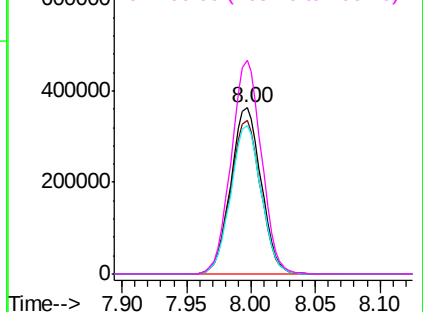


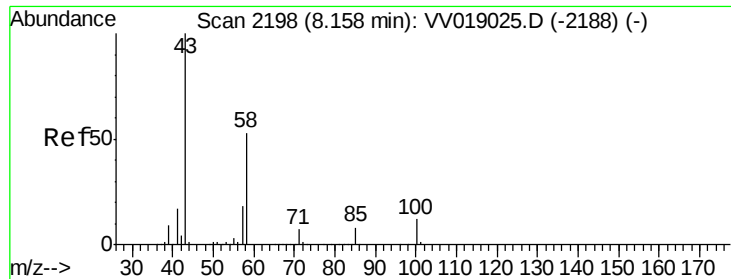
Abundance Ion 164.00 (163.70 to 164.70): VV0

Ion 129.00 (128.70 to 129.70): VV0

Ion 131.00 (130.70 to 131.70): VV0

Ion 166.00 (165.70 to 166.70): VV0

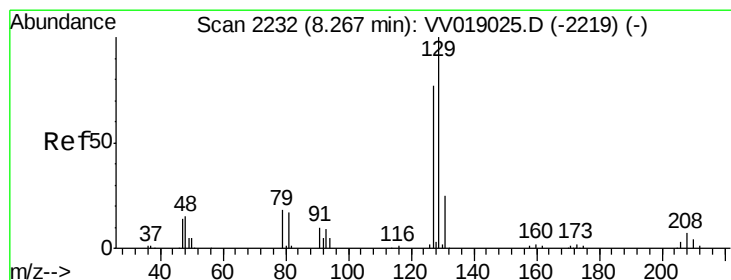
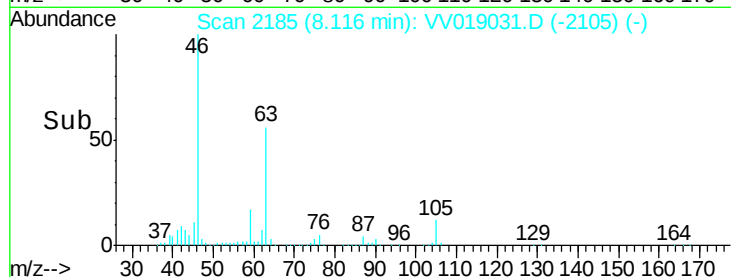
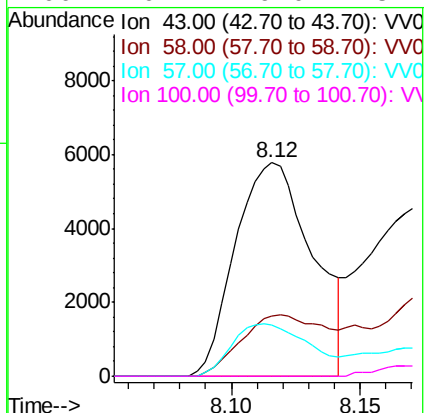
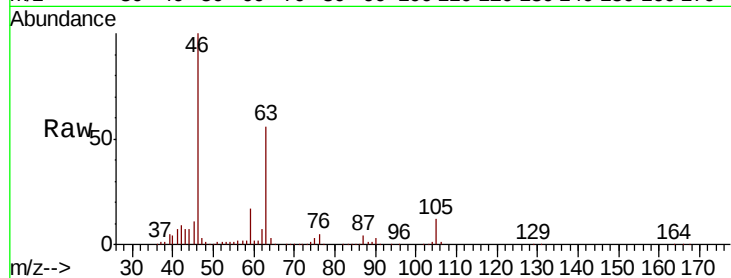




#48  
2-Hexanone  
Concen: 4.665 ug/L  
RT: 8.12 min Scan# 2185  
Delta R.T. -0.04 min  
Lab File: VV019031.D  
Acq: 20 Oct 2020 23:53

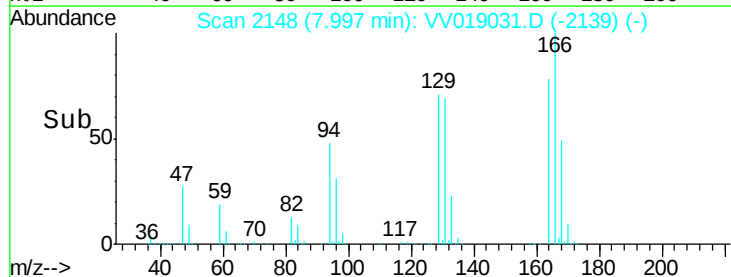
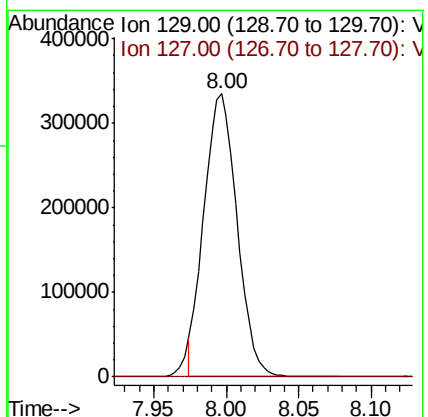
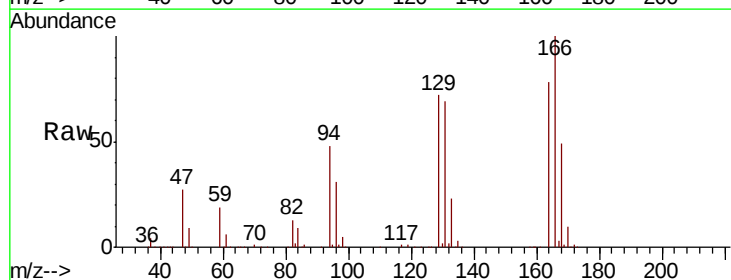
Instrument :  
MSVOA\_V  
ClientSampleId :

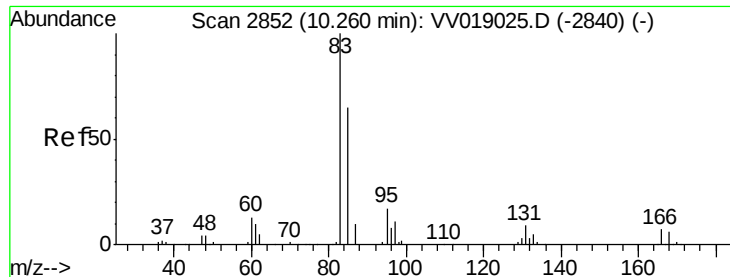
Tot Ion: 43 Resp: 12050  
Ion Ratio Lower Upper  
43 100  
58 31.4 42.5 63.7#  
57 24.6 14.5 21.7#  
100 0.4 9.0 13.4#



#49  
Dibromochloromethane  
Concen: 227.640 ug/L  
RT: 8.00 min Scan# 2148  
Delta R.T. -0.27 min  
Lab File: VV019031.D  
Acq: 20 Oct 2020 23:53

Tgt Ion: 129 Resp: 529542  
Ion Ratio Lower Upper  
129 100  
127 0.0 55.2 102.6#





#58

1,1,2,2-Tetrachloroethane

Concen: 0.763 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019031.D

Acq: 20 Oct 2020 23:53

Instrument :

MSVOA\_V

ClientSampled :

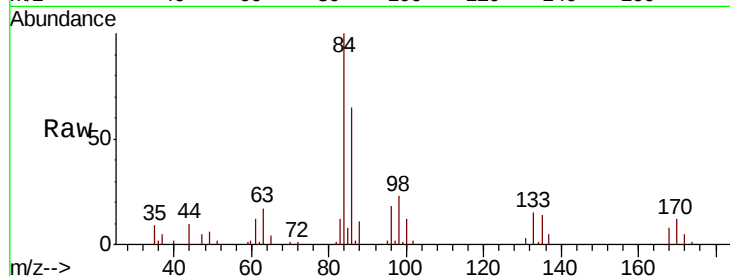
Tot Ion: 83 Resp: 2277

Ion Ratio Lower Upper

83 100

85 71.7 44.7 82.9

131 26.9 7.7 11.5#

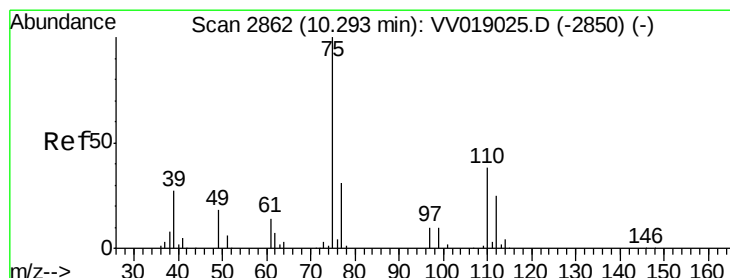
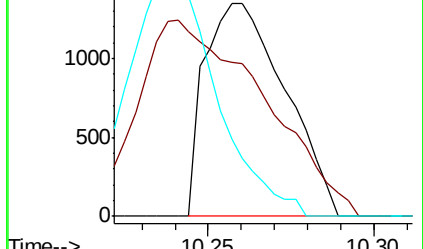
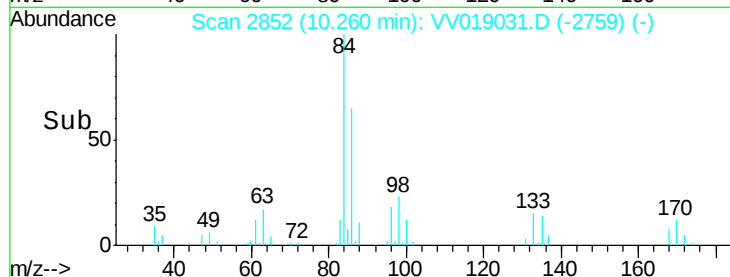


Abundance Ion 83.00 (82.70 to 83.70): VV019031.D (-2759) (-)

Ion 85.00 (84.70 to 85.70): VV019031.D (-2759) (-)

Ion 131.00 (130.70 to 131.70): VV019031.D (-2759) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 6.581 ug/L

RT: 11.27 min Scan# 3166

Delta R.T. 0.98 min

Lab File: VV019031.D

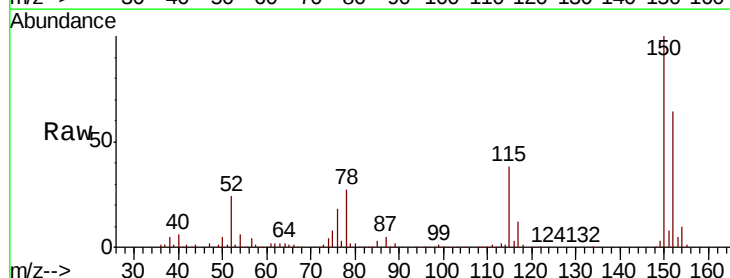
Acq: 20 Oct 2020 23:53

Tgt Ion: 75 Resp: 18817

Ion Ratio Lower Upper

75 100

77 38.1 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VV019031.D (-2240) (-)

Ion 77.00 (76.70 to 77.70): VV019031.D (-2240) (-)

Time-->

