

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081020\  
 Data File : VV017907.D  
 Acq On : 10 Aug 2020 19:37  
 Operator : SY/MD  
 Sample : L3608-11  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Aug 11 02:22:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM080820WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 11 01:17:50 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 230983   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 221107   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 111218   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 45879    | 38.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 76.92%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 41286    | 40.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 81.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 82437    | 28.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 57.52%# |
| 21) 2-Butanone-d5              | 3.91    | 46    | 77143    | 103.28   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.28% |
| 24) Chloroform-d               | 4.38    | 84    | 140443   | 44.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 109332   | 48.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.22%  |
| 32) Benzene-d6                 | 5.07    | 84    | 237119   | 46.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.88%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 63039    | 48.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.38%  |
| 41) Toluene-d8                 | 7.34    | 98    | 229680   | 44.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.52%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 39861    | 47.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.64%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 48059    | 102.50   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.50% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 96963    | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.10%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 111756   | 49.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.58%  |

## Target Compounds

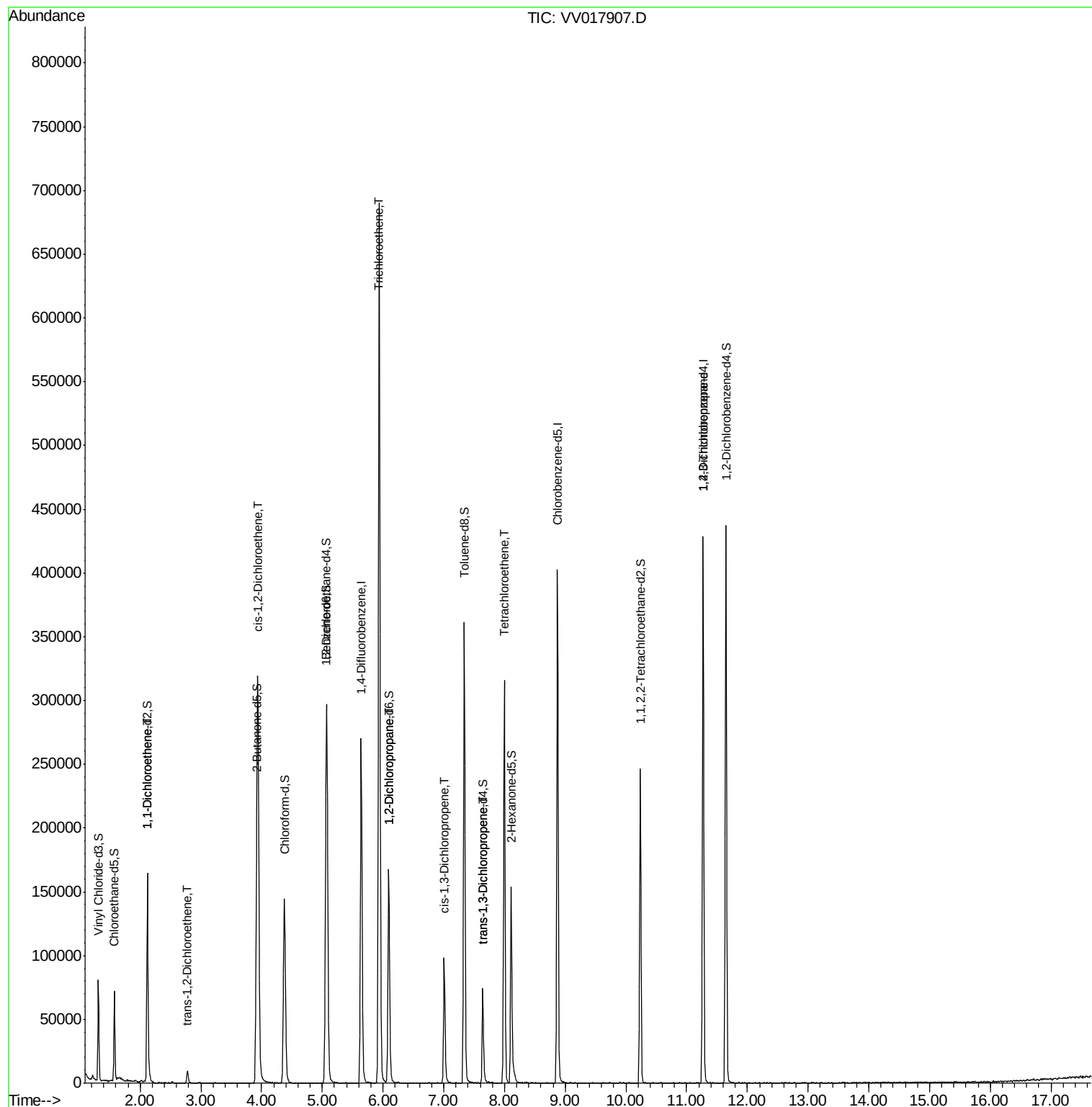
|                               |       |     |        |         | Ovalue    |
|-------------------------------|-------|-----|--------|---------|-----------|
| 12) 1,1-Dichloroethene        | 2.13  | 96  | 1203   | 0.884   | ug/L # 1  |
| 17) trans-1,2-Dichloroethene  | 2.78  | 96  | 3731   | 2.686   | ug/L 91   |
| 20) cis-1,2-Dichloroethene    | 3.94  | 96  | 175139 | 116.754 | ug/L 95   |
| 34) Trichloroethene           | 5.94  | 95  | 221665 | 140.318 | ug/L 99   |
| 37) 1,2-Dichloropropane       | 6.10  | 63  | 9715   | 8.495   | ug/L # 79 |
| 39) cis-1,3-Dichloropropene   | 7.00  | 75  | 2922   | 1.486   | ug/L # 71 |
| 44) trans-1,3-Dichloropropene | 7.65  | 75  | 1874   | 0.907   | ug/L # 61 |
| 46) Tetrachloroethene         | 8.00  | 164 | 70815  | 47.561  | ug/L 93   |
| 59) 1,2,3-Trichloropropane    | 11.27 | 75  | 9763   | 5.544   | ug/L # 78 |

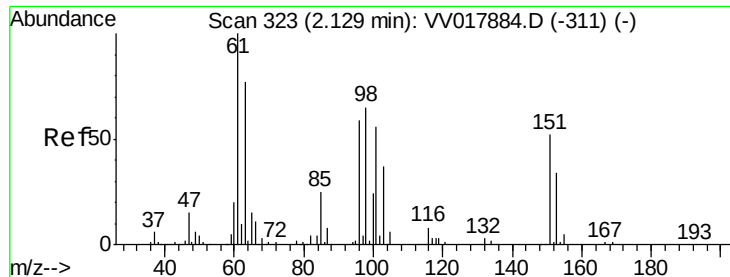
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM080820WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Aug 11 01:17:50 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.884 ug/L

RT: 2.13 min Scan# 322

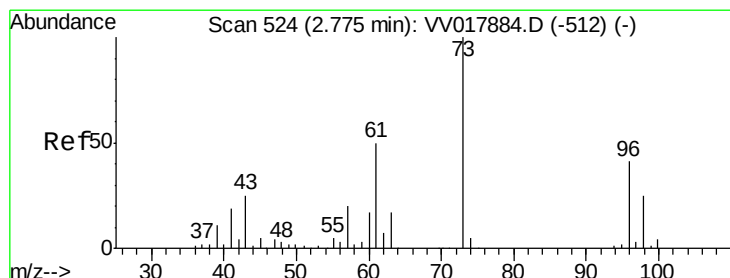
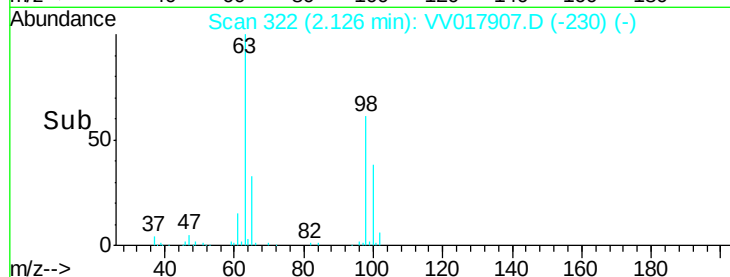
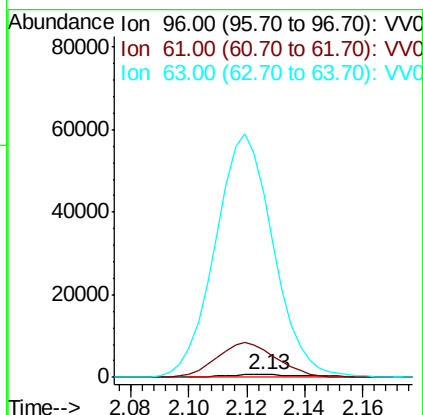
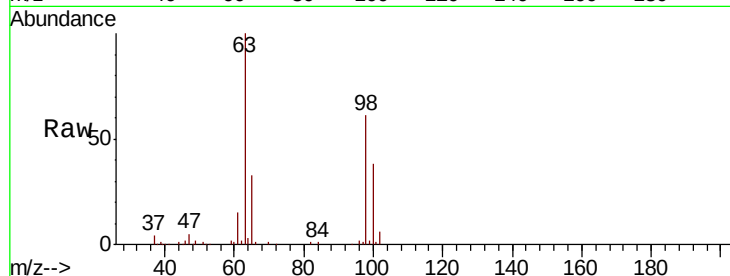
Delta R.T. -0.00 min

Lab File: VV017907.D

Acq: 10 Aug 2020 19:37

Instrument :  
MSVOA\_V  
ClientSampleId :

Tot Ion: 96 Resp: 1203  
Ion Ratio Lower Upper  
96 100  
61 960.3 121.1 224.9#  
63 6547.7 98.1 182.1#



#17

trans-1,2-Dichloroethene

Concen: 2.686 ug/L

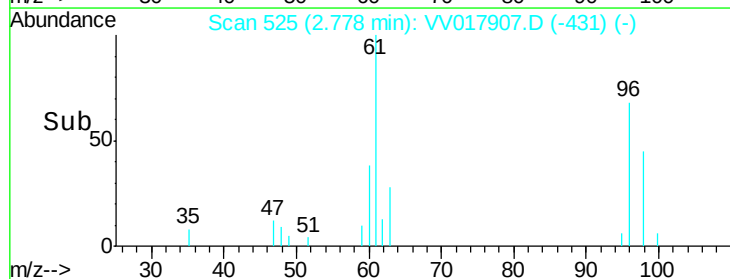
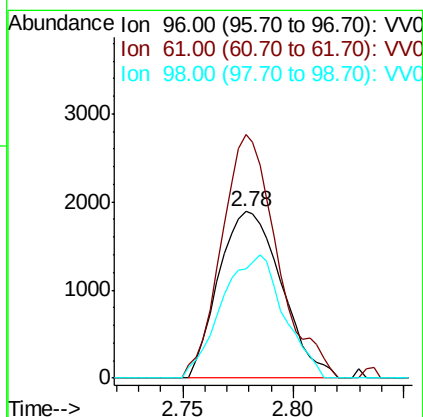
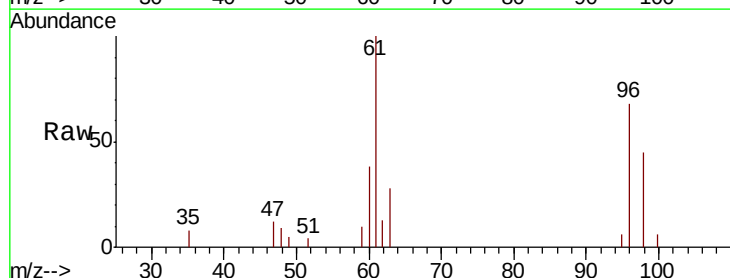
RT: 2.78 min Scan# 525

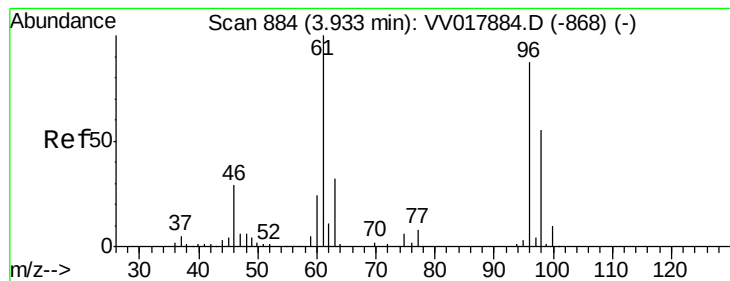
Delta R.T. 0.00 min

Lab File: VV017907.D

Acq: 10 Aug 2020 19:37

Tgt Ion: 96 Resp: 3731  
Ion Ratio Lower Upper  
96 100  
61 146.1 92.4 171.6  
98 65.7 47.5 88.1



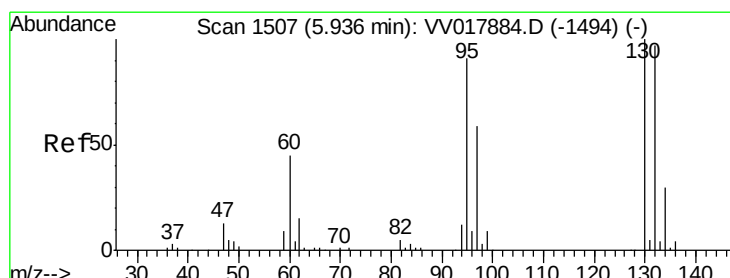
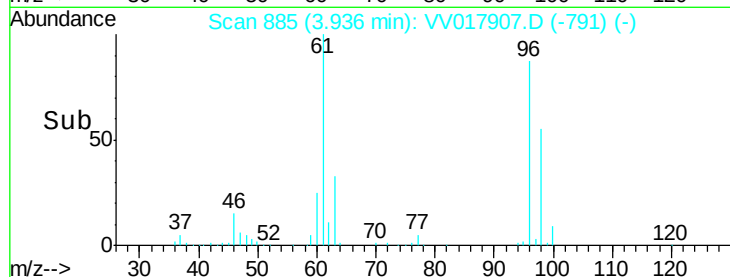
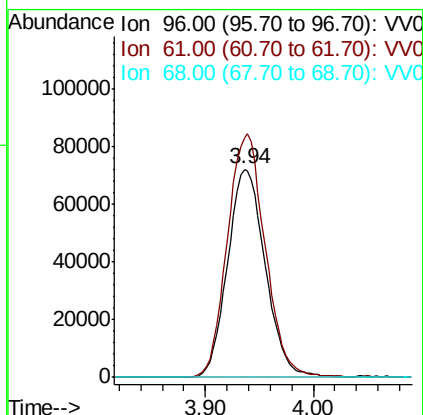
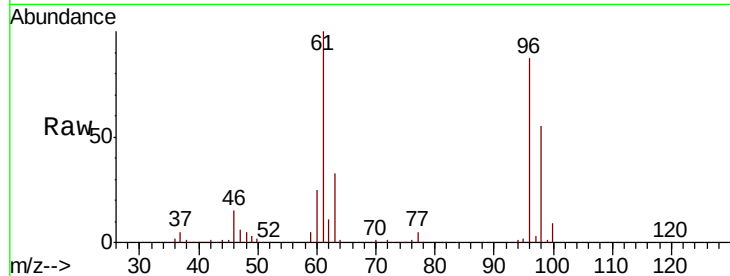


#20

cis-1,2-Dichloroethene  
Concen: 116.754 ug/L  
RT: 3.94 min Scan# 885  
Delta R.T. 0.00 min  
Lab File: VV017907.D  
Acq: 10 Aug 2020 19:37

Instrument :  
MSVOA\_V  
ClientSampled :

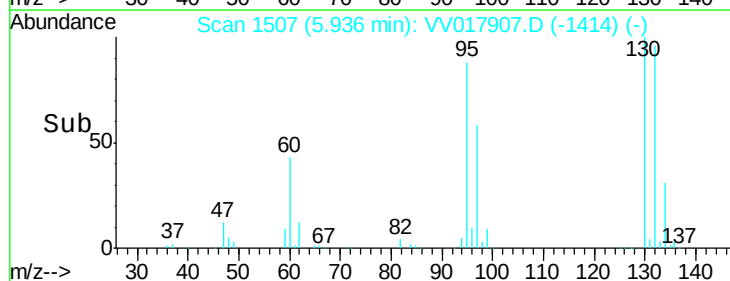
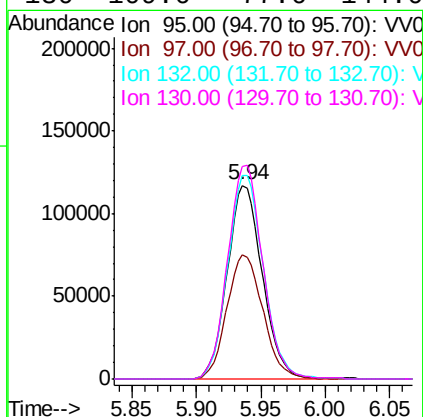
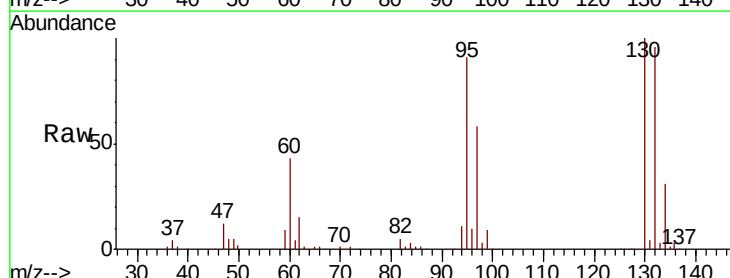
Tot Ion: 96 Resp: 175139  
Ion Ratio Lower Upper  
96 100  
61 114.8 84.4 156.8  
68 0.0 0.0 0.0

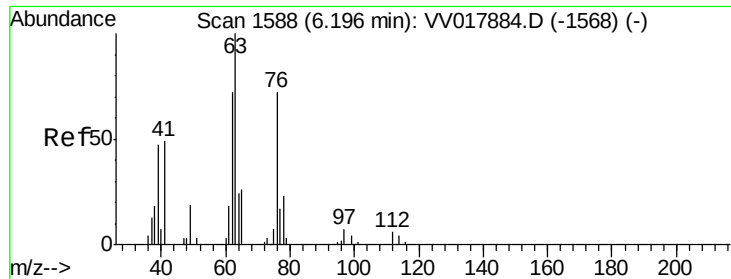


#34

Trichloroethene  
Concen: 140.318 ug/L  
RT: 5.94 min Scan# 1507  
Delta R.T. -0.00 min  
Lab File: VV017907.D  
Acq: 10 Aug 2020 19:37

Tgt Ion: 95 Resp: 221665  
Ion Ratio Lower Upper  
95 100  
97 64.0 44.7 83.1  
132 105.0 73.6 136.8  
130 109.6 77.6 144.0

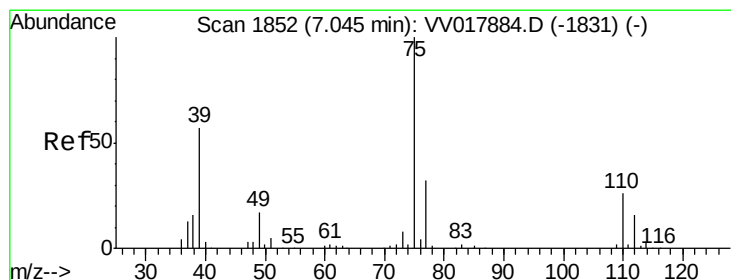
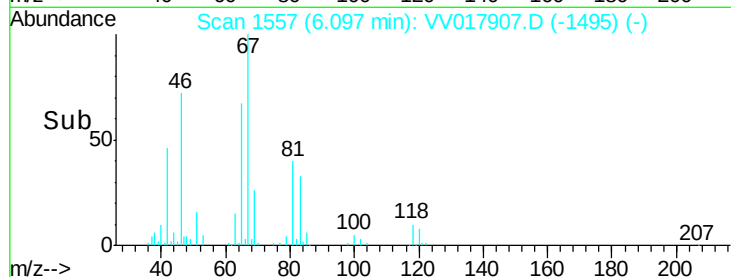
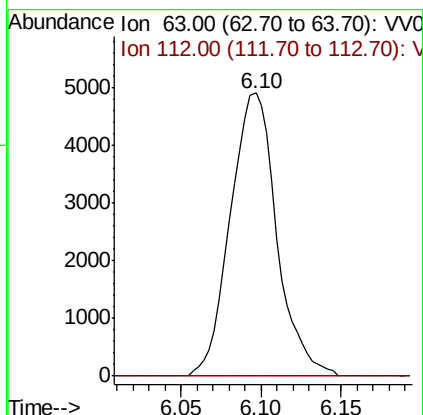
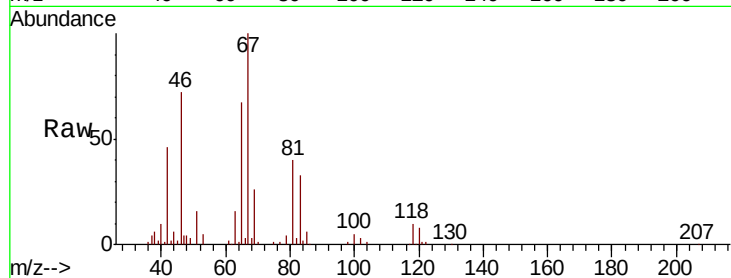




#37  
 1,2-Dichloropropane  
 Concen: 8.495 ug/L  
 RT: 6.10 min Scan# 1557  
 Delta R.T. -0.10 min  
 Lab File: VV017907.D  
 Acq: 10 Aug 2020 19:37

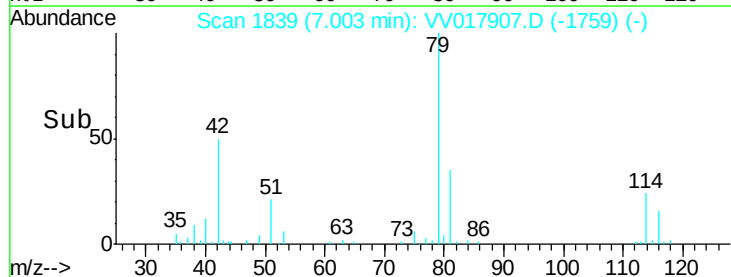
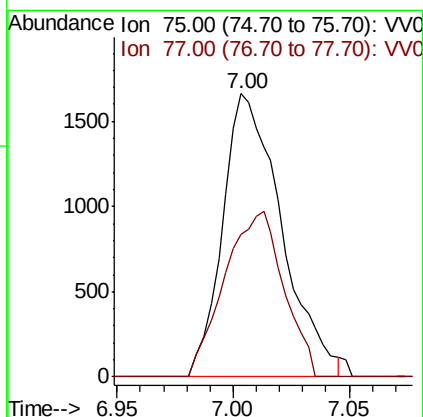
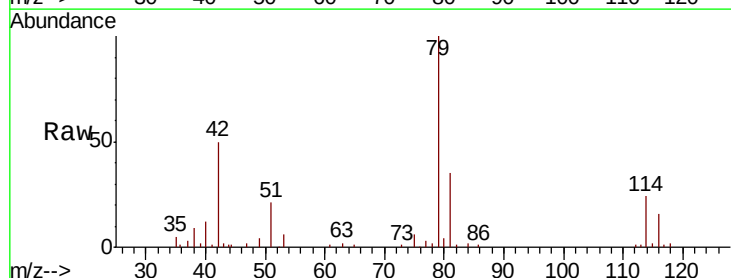
Instrument :  
 MSVOA\_V  
 ClientSampled :

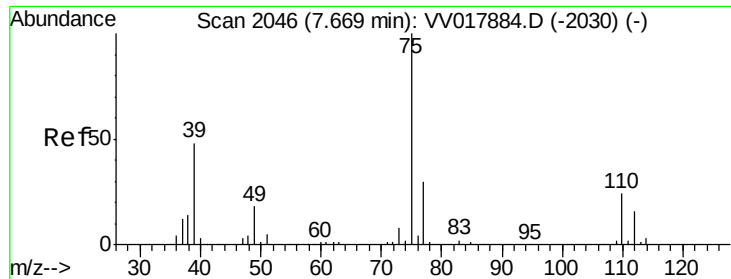
Tot Ion: 63 Resp: 9715  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 5.8 8.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 1.486 ug/L  
 RT: 7.00 min Scan# 1839  
 Delta R.T. -0.04 min  
 Lab File: VV017907.D  
 Acq: 10 Aug 2020 19:37

Tgt Ion: 75 Resp: 2922  
 Ion Ratio Lower Upper  
 75 100  
 77 50.4 23.7 44.1#





#44

trans-1,3-Dichloropropene

Concen: 0.907 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.02 min

Lab File: VV017907.D

Acq: 10 Aug 2020 19:37

Instrument :

MSVOA\_V

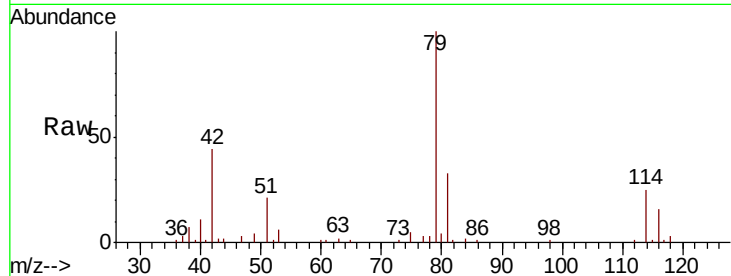
ClientSampleId :

Tot Ion: 75 Resp: 1874

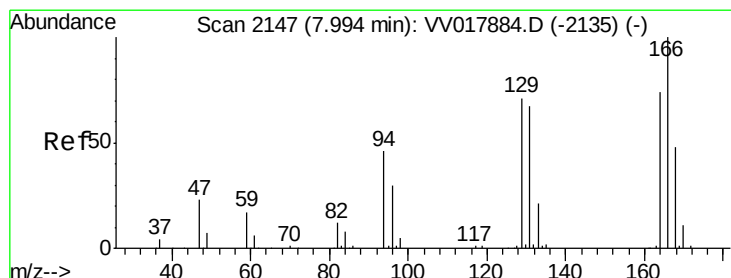
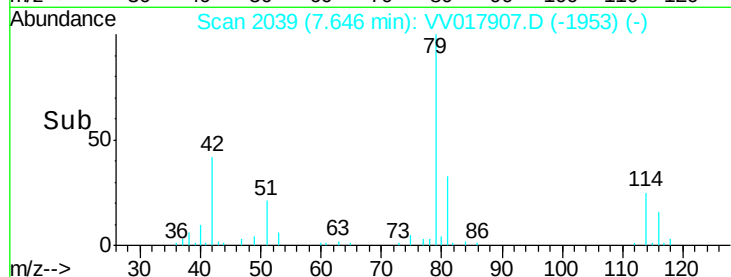
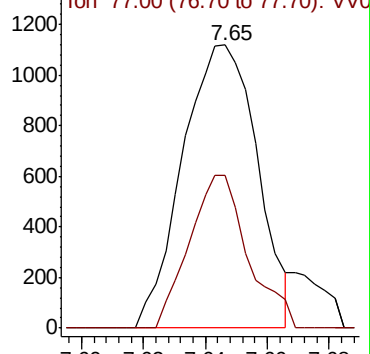
Ion Ratio Lower Upper

75 100

77 53.9 22.3 41.5#



Abundance Ion 75.00 (74.70 to 75.70): VV017884.D (-2030) (-)



#46

Tetrachloroethene

Concen: 47.561 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV017907.D

Acq: 10 Aug 2020 19:37

Tgt Ion: 164 Resp: 70815

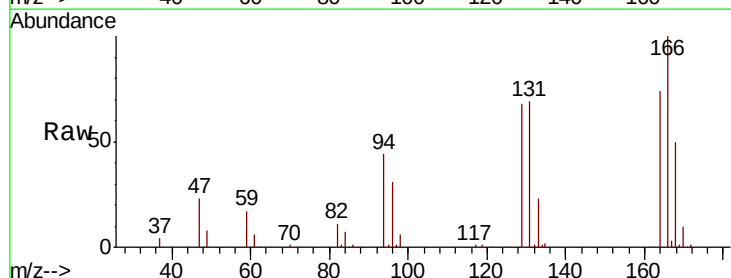
Ion Ratio Lower Upper

164 100

129 91.5 61.6 114.4

131 92.2 59.6 110.8

166 134.5 87.2 161.9

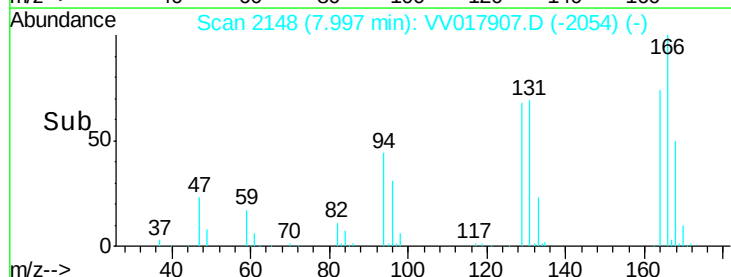


Abundance Ion 164.00 (163.70 to 164.70): VV017884.D (-2135) (-)

Ion 129.00 (128.70 to 129.70): VV017884.D (-2135) (-)

Ion 131.00 (130.70 to 131.70): VV017884.D (-2135) (-)

Ion 166.00 (165.70 to 166.70): VV017884.D (-2135) (-)



Abundance Ion 164.00 (163.70 to 164.70): VV017907.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV017907.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV017907.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV017907.D (-2054) (-)

Abundance Ion 164.00 (163.70 to 164.70): VV017907.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV017907.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV017907.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV017907.D (-2054) (-)

Abundance Ion 164.00 (163.70 to 164.70): VV017907.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV017907.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV017907.D (-2054) (-)

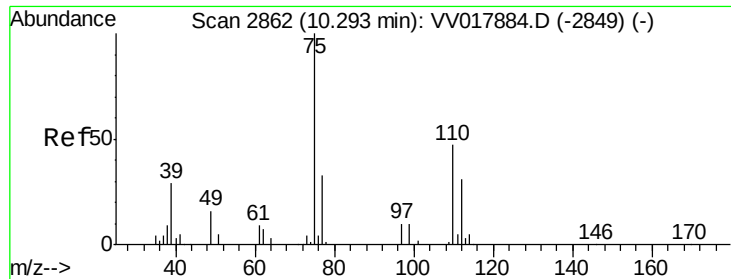
Ion 166.00 (165.70 to 166.70): VV017907.D (-2054) (-)

Abundance Ion 164.00 (163.70 to 164.70): VV017907.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV017907.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV017907.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV017907.D (-2054) (-)



#59

1,2,3-Trichloropropane

Concen: 5.544 ug/L

RT: 11.27 min Scan# 3167

Delta R.T. 0.98 min

Lab File: VV017907.D

Acq: 10 Aug 2020 19:37

Instrument :

MSVOA\_V

ClientSampleId :

Tot Ion: 75 Resp: 9763

Ion Ratio Lower Upper

75 100

77 45.3 26.4 39.6#

