

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081220\  
 Data File : VV017952.D  
 Acq On : 13 Aug 2020 02:07  
 Operator : SY/MD  
 Sample : L3655-06  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F4L35

Quant Time: Aug 13 06:02:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 13 05:58:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 242363   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 238986   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 109841   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 82282    | 44.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.00%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 69594    | 46.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 121817   | 34.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 68.88%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 127512   | 105.28   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.28% |
| 24) Chloroform-d               | 4.38    | 84    | 154690   | 45.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 110096   | 50.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.70% |
| 32) Benzene-d6                 | 5.08    | 84    | 317587   | 48.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.44%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 105297   | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.80%  |
| 41) Toluene-d8                 | 7.34    | 98    | 275929   | 46.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.18%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 44225    | 45.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.56%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 59527    | 86.15    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.15%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 130552   | 46.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.12%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 112525   | 52.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 104.10% |

## Target Compounds

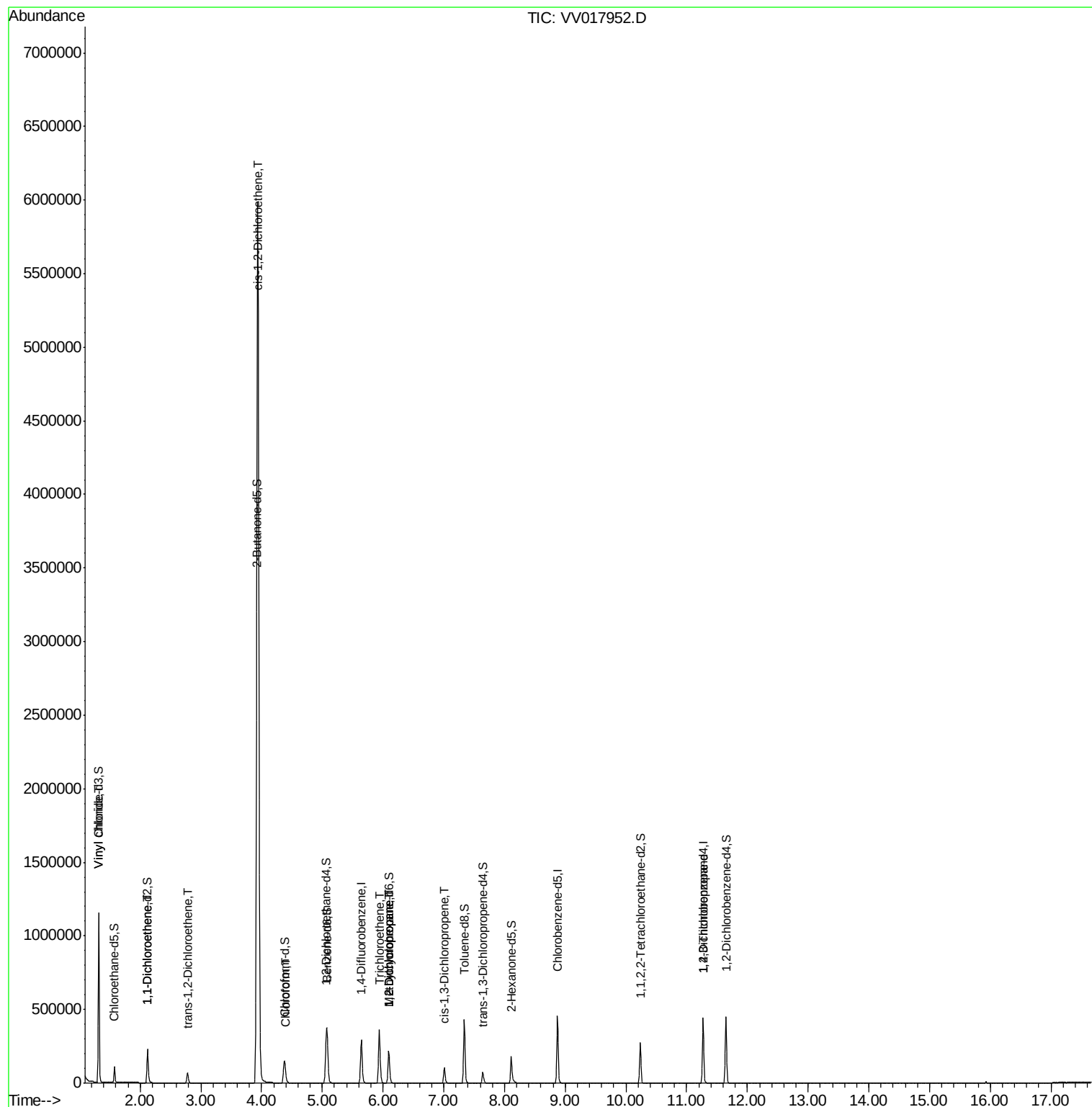
| Target Compounds             | R.T.  | QIon | Response | Conc     | Units  | Ovalue |
|------------------------------|-------|------|----------|----------|--------|--------|
| 5) Vinyl chloride            | 1.32  | 62   | 631710   | 293.335  | ug/L   | 100    |
| 12) 1,1-Dichloroethene       | 2.13  | 96   | 5526     | 3.399    | ug/L # | 1      |
| 17) trans-1,2-Dichloroethene | 2.78  | 96   | 24924    | 14.914   | ug/L   | 99     |
| 20) cis-1,2-Dichloroethene   | 3.94  | 96   | 3279067  | 1785.515 | ug/L   | 98     |
| 25) Chloroform               | 4.41  | 83   | 5821     | 1.698    | ug/L   | 96     |
| 34) Trichloroethene          | 5.94  | 95   | 125518   | 64.223   | ug/L   | 99     |
| 35) Methylcyclohexane        | 6.10  | 83   | 24552    | 8.448    | ug/L # | 17     |
| 37) 1,2-Dichloropropane      | 6.10  | 63   | 11722    | 5.813    | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene  | 7.01  | 75   | 2571     | 0.899    | ug/L # | 58     |
| 59) 1,2,3-Trichloropropane   | 11.27 | 75   | 13394    | 5.379    | ug/L   | 89     |

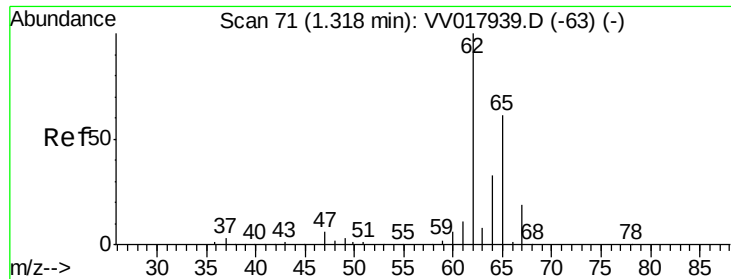
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV081220\  
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Sample : L3655-06  
Misc : 5.0mL/MSVOA V/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
F4L35

Quant Time: Aug 13 06:02:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Aug 13 05:58:58 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 293.335 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017952.D

Acq: 13 Aug 2020 02:07

Instrument :

MSVOA\_V

ClientSampled :

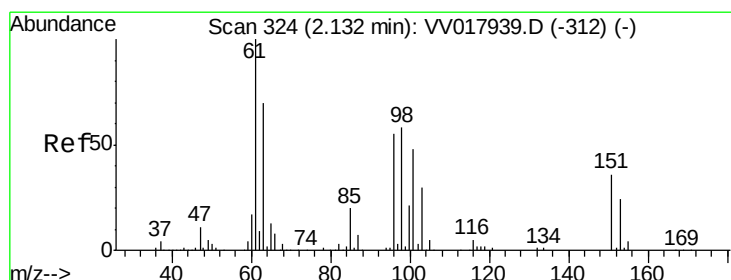
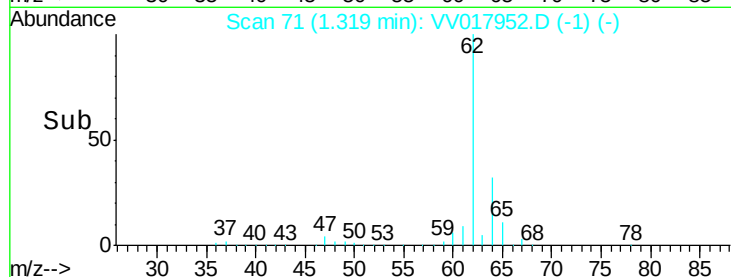
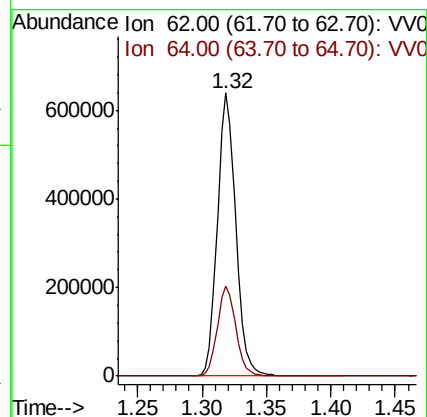
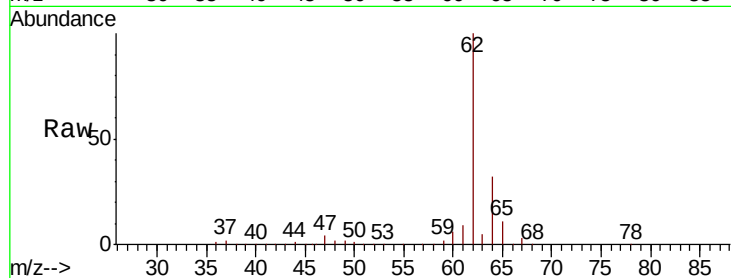
F4L35

Tot Ion: 62 Resp: 631710

Ion Ratio Lower Upper

62 100

64 32.0 22.4 41.6



#12

1,1-Dichloroethene

Concen: 3.399 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV017952.D

Acq: 13 Aug 2020 02:07

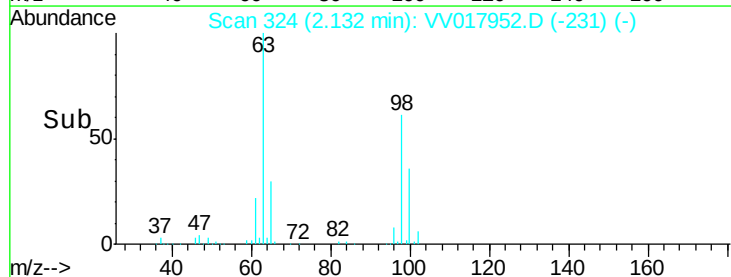
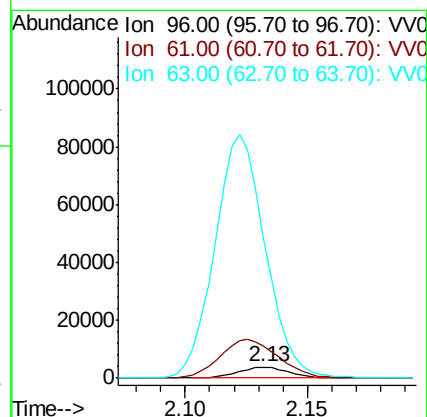
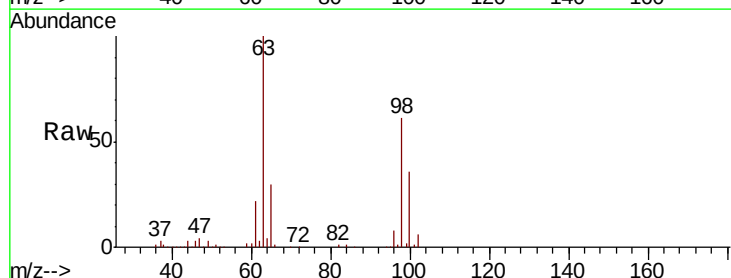
Tgt Ion: 96 Resp: 5526

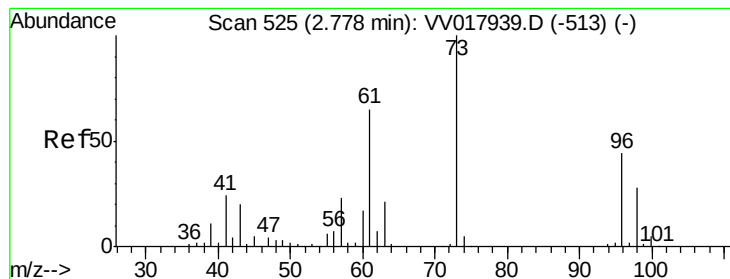
Ion Ratio Lower Upper

96 100

61 295.7 127.1 236.0#

63 1322.3 95.2 176.8#





#17

trans-1,2-Dichloroethene

Concen: 14.914 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV017952.D

Acq: 13 Aug 2020 02:07

Instrument :

MSVOA\_V

ClientSampled :

F4L35

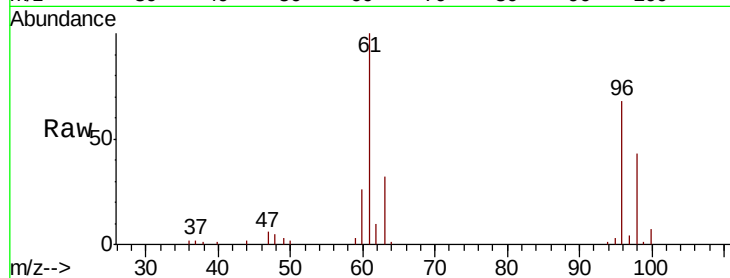
Tot Ion: 96 Resp: 24924

Ion Ratio Lower Upper

96 100

61 147.8 102.4 190.2

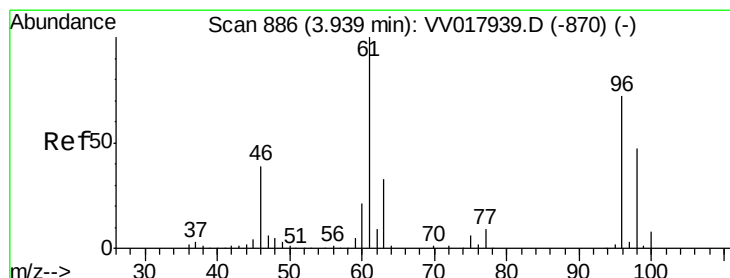
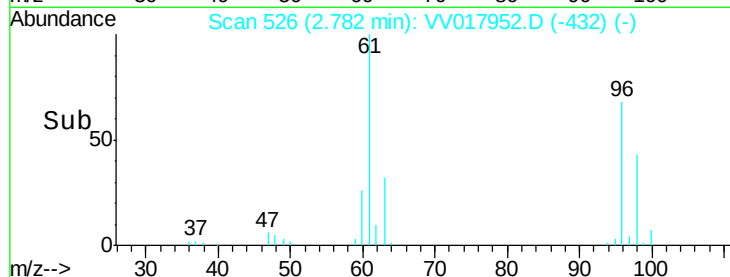
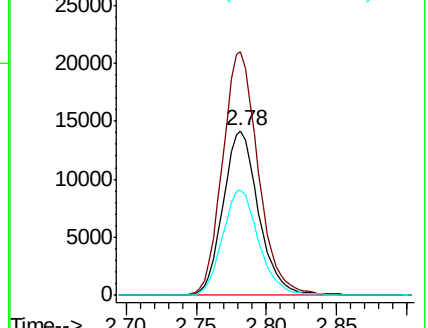
98 64.2 44.4 82.5



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 1785.515 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV017952.D

Acq: 13 Aug 2020 02:07

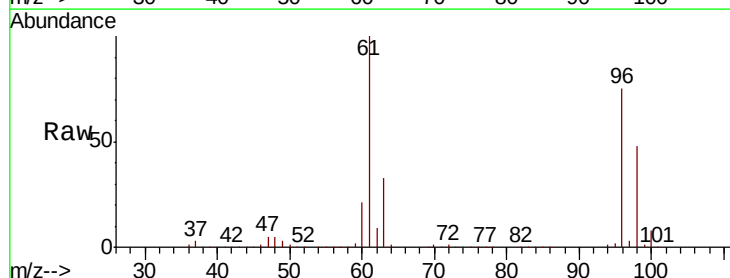
Tgt Ion: 96 Resp: 3279067

Ion Ratio Lower Upper

96 100

61 133.0 95.0 176.4

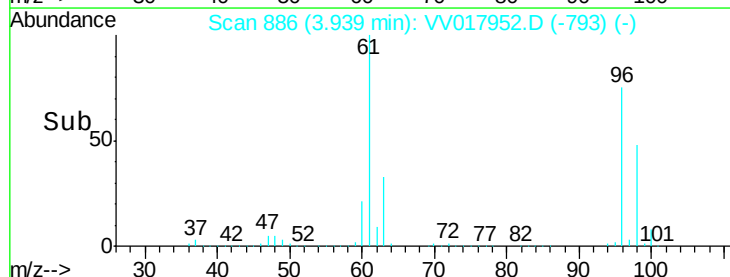
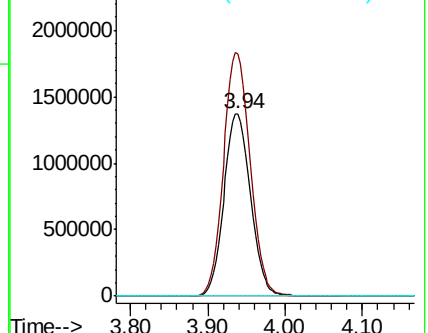
68 0.0 0.0 0.0

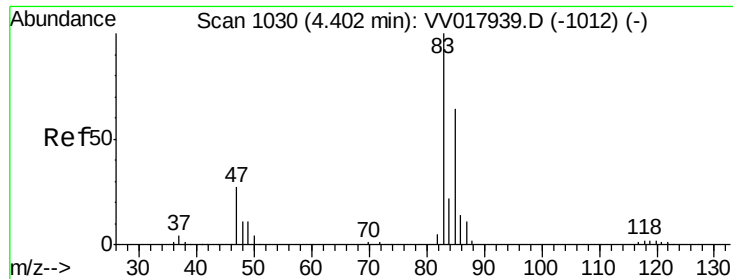


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

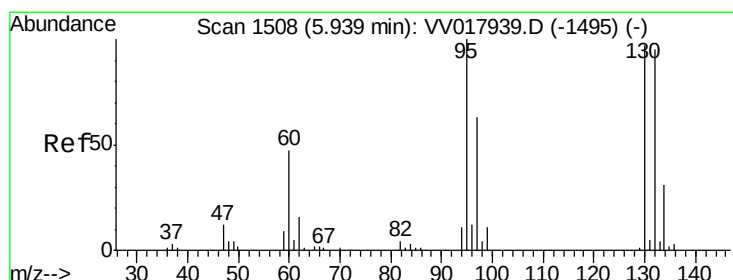
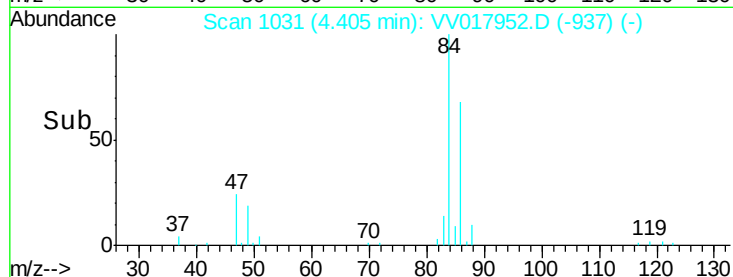
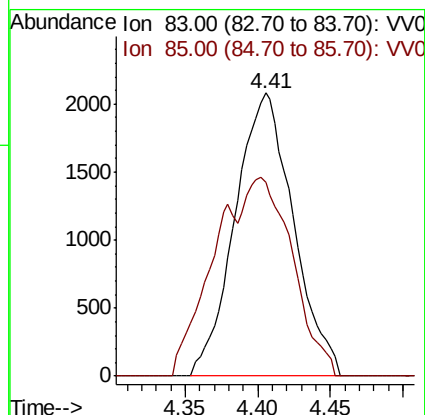
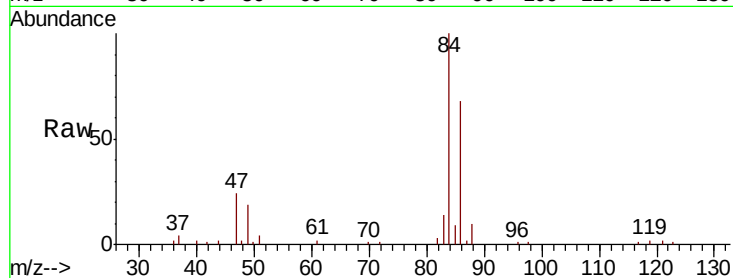




#25  
Chloroform  
Concen: 1.698 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV017952.D  
Acq: 13 Aug 2020 02:07

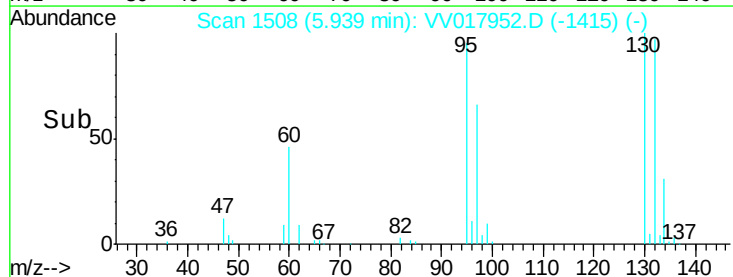
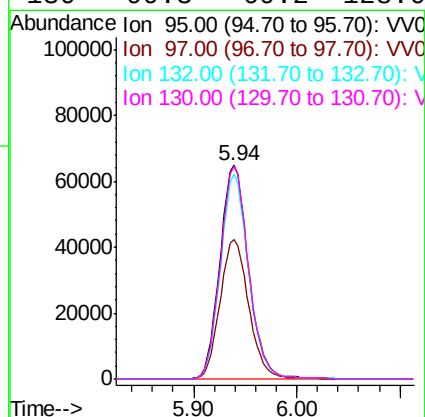
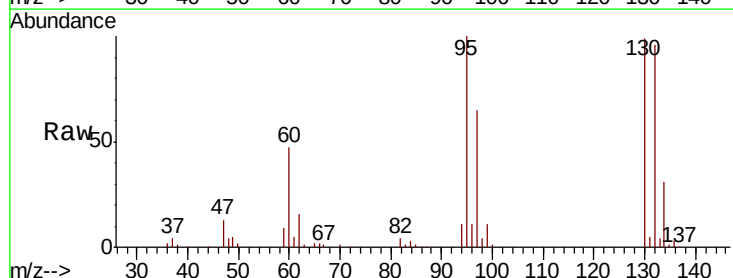
Instrument :  
MSVOA\_V  
ClientSampleId :  
F4L35

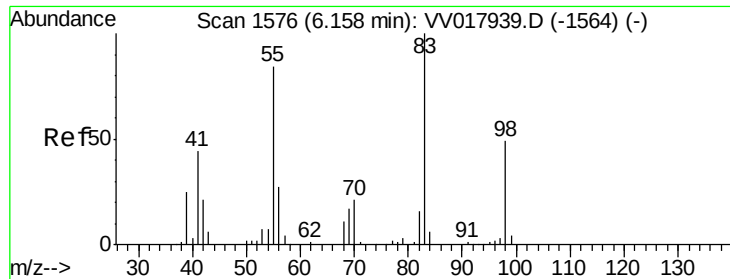
Tot Ion: 83 Resp: 5821  
Ion Ratio Lower Upper  
83 100  
85 68.3 45.5 84.5



#34  
Trichloroethene  
Concen: 64.223 ug/L  
RT: 5.94 min Scan# 1508  
Delta R.T. 0.00 min  
Lab File: VV017952.D  
Acq: 13 Aug 2020 02:07

Tgt Ion: 95 Resp: 125518  
Ion Ratio Lower Upper  
95 100  
97 65.0 46.0 85.4  
132 95.8 65.8 122.2  
130 99.3 69.2 128.6

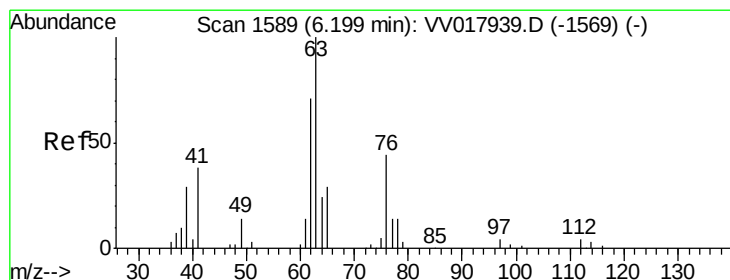
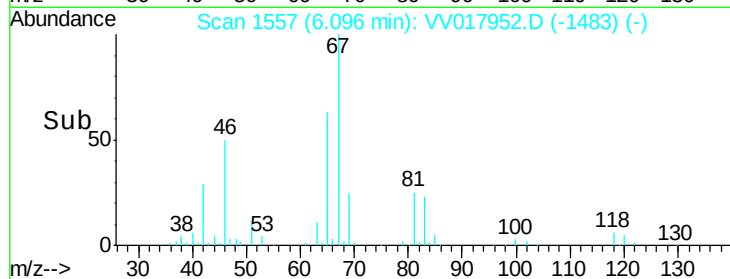
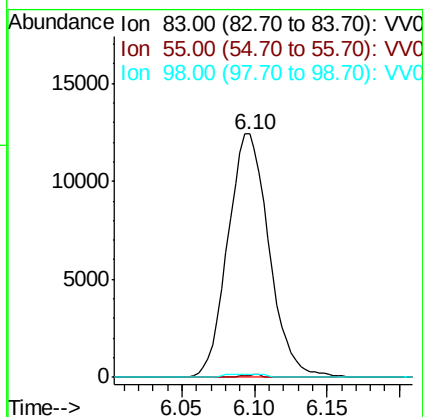
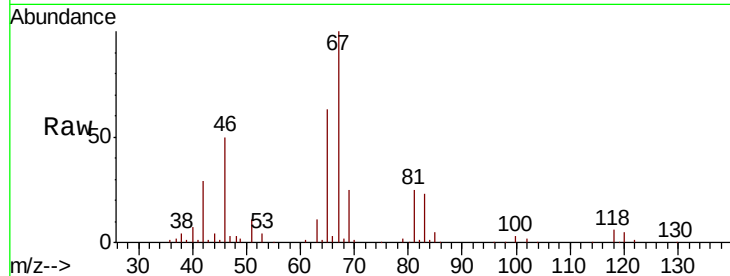




#35  
Methvlcvclohexane  
Concen: 8.448 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.06 min  
Lab File: VV017952.D  
Acq: 13 Aug 2020 02:07

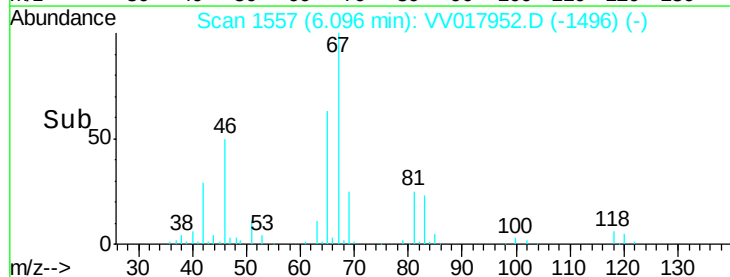
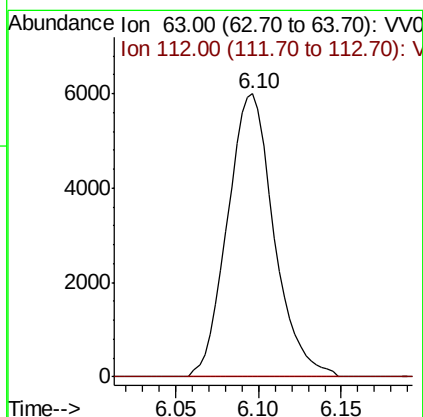
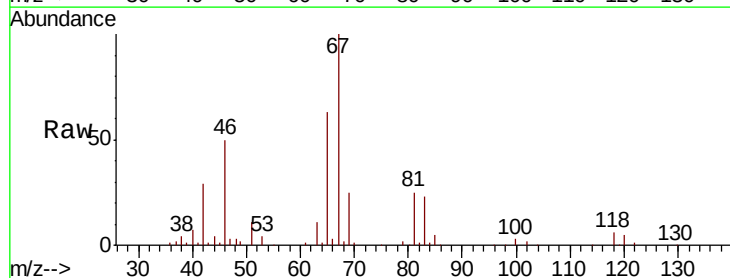
Instrument :  
MSVOA\_V  
ClientSampled :  
F4L35

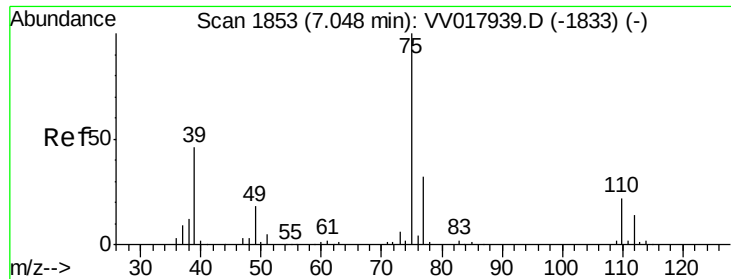
Tot Ion: 83 Resp: 24552  
Ion Ratio Lower Upper  
83 100  
55 0.2 64.9 97.3#  
98 1.3 38.7 58.1#



#37  
1,2-Dichloropropane  
Concen: 5.813 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.10 min  
Lab File: VV017952.D  
Acq: 13 Aug 2020 02:07

Tgt Ion: 63 Resp: 11722  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.5 5.3#

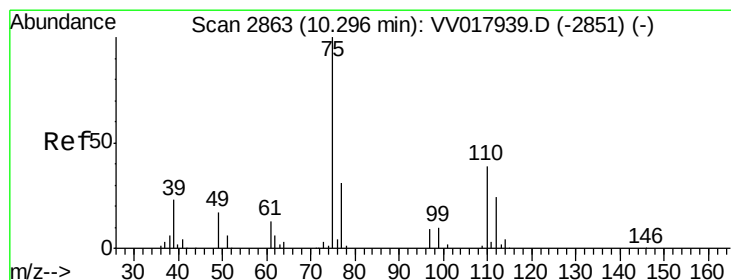
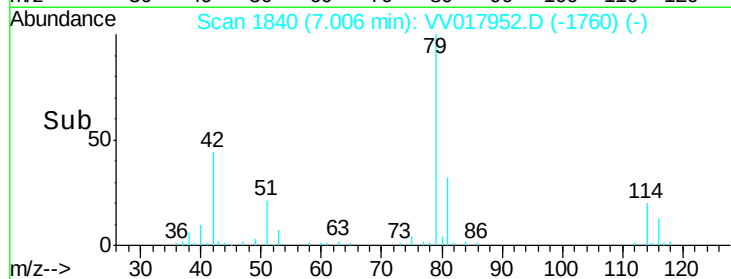
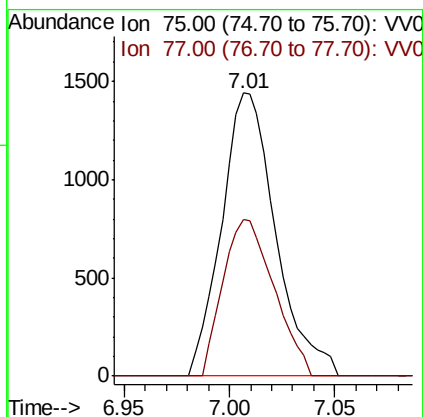
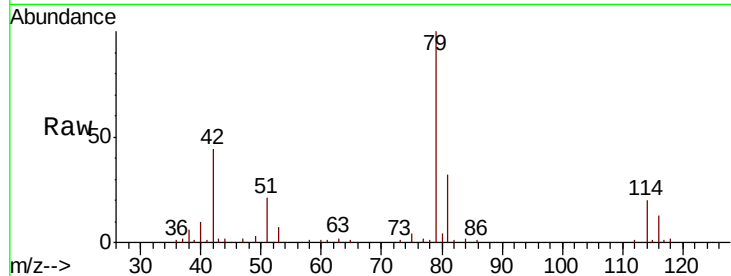




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.899 ug/L  
 RT: 7.01 min Scan# 1840  
 Delta R.T. -0.04 min  
 Lab File: VV017952.D  
 Acq: 13 Aug 2020 02:07

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 F4L35

Tot Ion: 75 Resp: 2571  
 Ion Ratio Lower Upper  
 75 100  
 77 55.3 22.3 41.5#



#59  
 1,2,3-Trichloropropane  
 Concen: 5.379 ug/L  
 RT: 11.27 min Scan# 3166  
 Delta R.T. 0.97 min  
 Lab File: VV017952.D  
 Acq: 13 Aug 2020 02:07

Tgt Ion: 75 Resp: 13394  
 Ion Ratio Lower Upper  
 75 100  
 77 38.4 25.7 38.5

