

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062520\  
 Data File : VV017128.D  
 Acq On : 25 Jun 2020 15:35  
 Operator : SY/MD  
 Sample : L3102-16DL 5X  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 F9L65DL

Quant Time: Jun 26 01:35:41 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  | 178370   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 174166   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 81198    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 52990    | 4.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 99.00%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 42326    | 5.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 108.80% |
| 11) 1,1-Dichloroethene-d2      | 2.12   | 63    | 78963    | 3.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.60%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 130500   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.66%  |
| 24) Chloroform-d               | 4.38   | 84    | 118319   | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 61228    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.80% |
| 32) Benzene-d6                 | 5.07   | 84    | 221672   | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 65617    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.00%  |
| 41) Toluene-d8                 | 7.34   | 98    | 188922   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.20%  |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 25042    | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.00%  |
| 48) 2-Hexanone-d5              | 8.12   | 63    | 96100    | 44.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.54%  |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 44973    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.00% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 75697    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.80% |

## Target Compounds

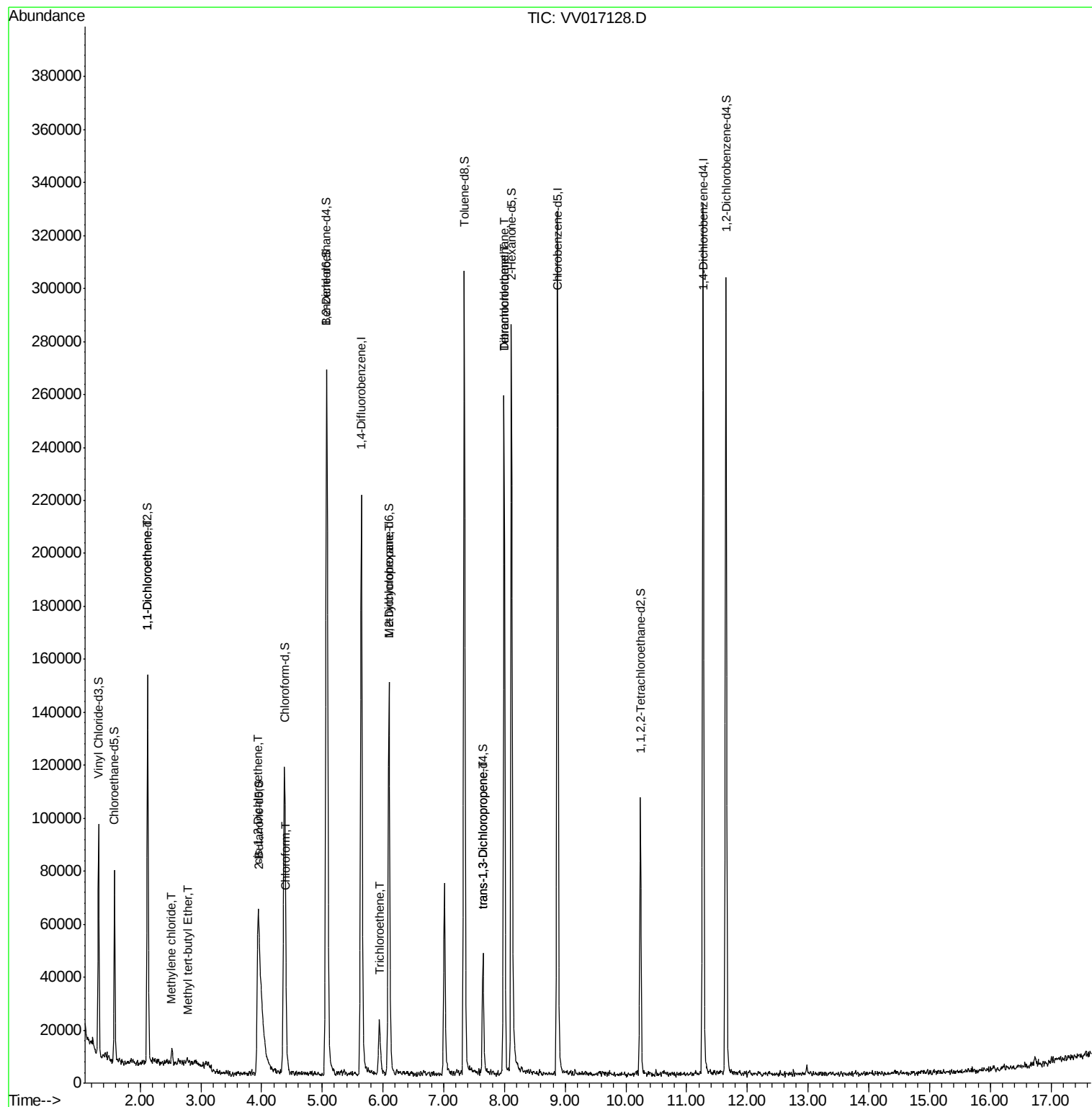
|                               |      |     |       |              | Ovalue |
|-------------------------------|------|-----|-------|--------------|--------|
| 12) 1,1-Dichloroethene        | 2.12 | 96  | 897   | 0.105 ug/L # | 1      |
| 16) Methylene chloride        | 2.52 | 84  | 1932  | 0.211 ug/L # | 69     |
| 17) Methyl tert-butyl Ether   | 2.79 | 73  | 1369  | 0.064 ug/L # | 82     |
| 22) cis-1,2-Dichloroethene    | 3.94 | 96  | 12974 | 1.046 ug/L   | 95     |
| 25) Chloroform                | 4.41 | 83  | 3035  | 0.136 ug/L   | 95     |
| 34) Trichloroethene           | 5.94 | 95  | 6208  | 0.465 ug/L   | 94     |
| 35) Methylcyclohexane         | 6.10 | 83  | 17036 | 0.821 ug/L # | 19     |
| 46) trans-1,3-Dichloropropene | 7.65 | 75  | 1459  | 0.101 ug/L # | 82     |
| 49) Tetrachloroethene         | 7.99 | 164 | 55636 | 5.175 ug/L   | 99     |
| 51) Dibromochloromethane      | 7.99 | 129 | 51218 | 5.276 ug/L # | 12     |

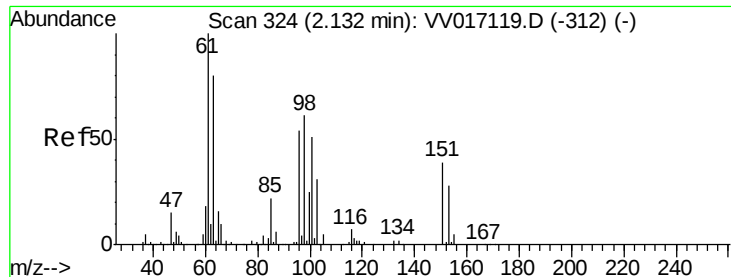
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3102-16DL 5X  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 11 Sample Multiplier: 1

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Quant Time: Jun 26 01:35:41 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





#12

1,1-Dichloroethene

Concen: 0.105 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017128.D

Acq: 25 Jun 2020 15:35

Instrument :

MSVOA\_V

ClientSampleId :

F9L65DL

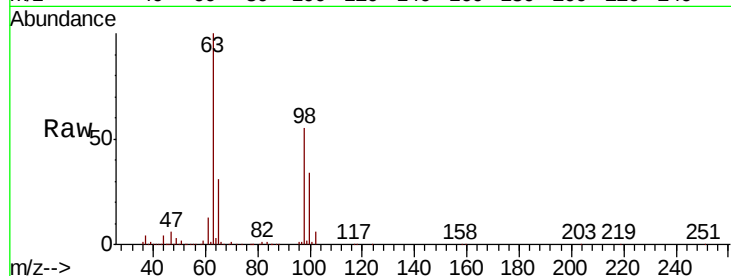
Tot Ion: 96 Resp: 897

Ion Ratio Lower Upper

96 100

61 1181.4 125.0 232.2#

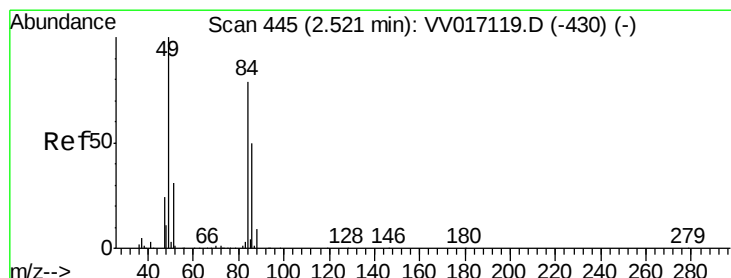
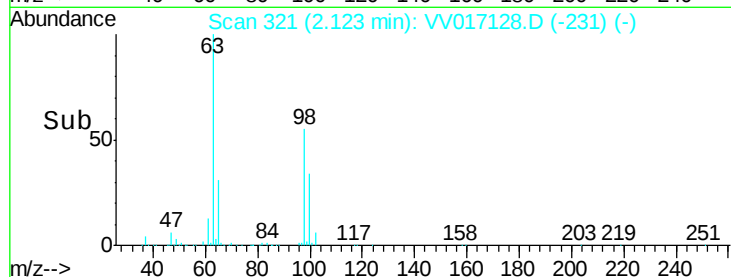
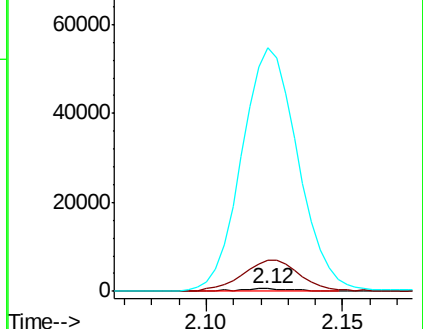
63 9169.8 109.8 203.8#



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



#16

Methylene chloride

Concen: 0.211 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV017128.D

Acq: 25 Jun 2020 15:35

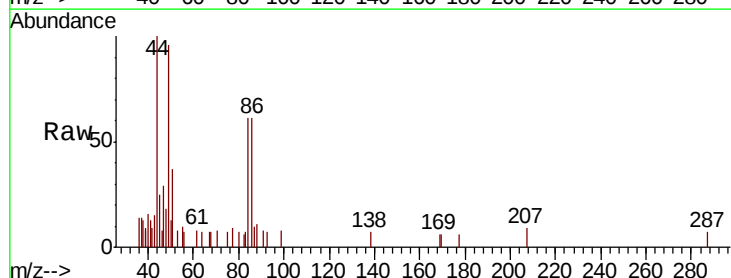
Tgt Ion: 84 Resp: 1932

Ion Ratio Lower Upper

84 100

86 99.5 45.8 85.0#

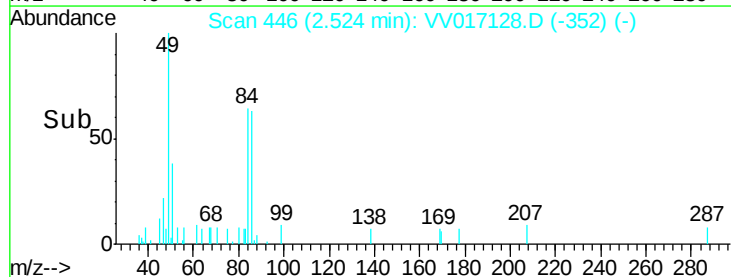
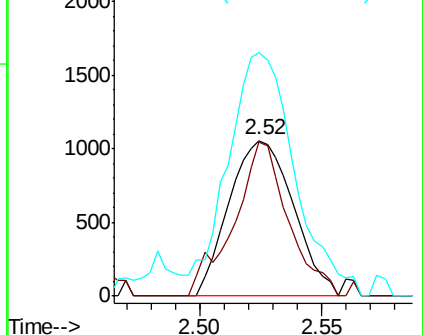
49 156.7 89.6 166.4

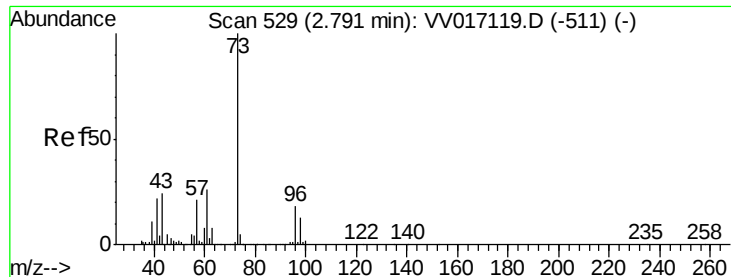


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

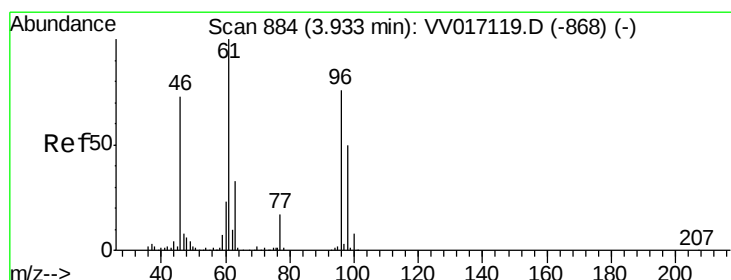
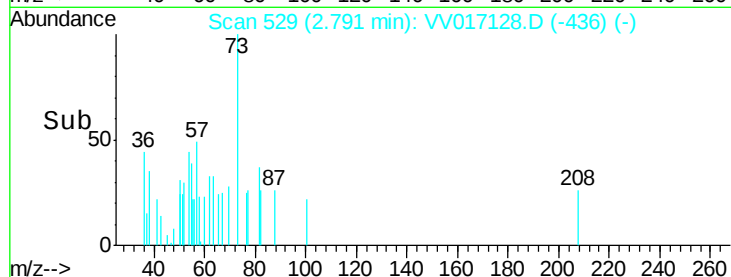
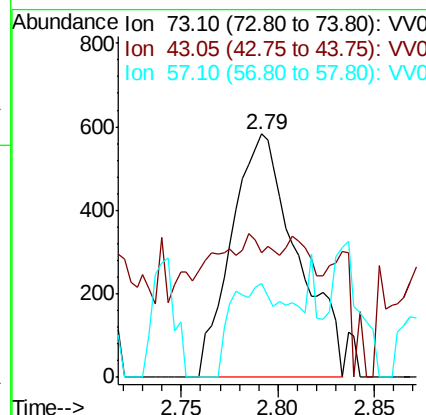
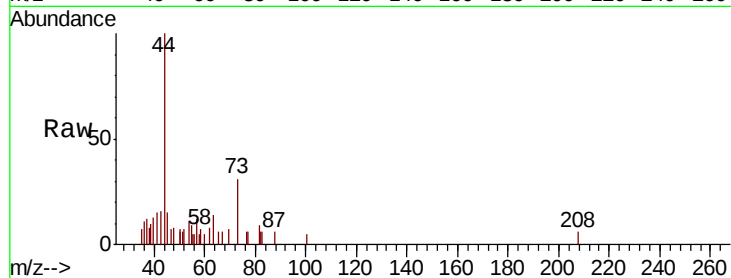




#17  
Methvl tert-butvl Ether  
Concen: 0.064 ug/L  
RT: 2.79 min Scan# 529  
Delta R.T. 0.00 min  
Lab File: VV017128.D  
Acq: 25 Jun 2020 15:35

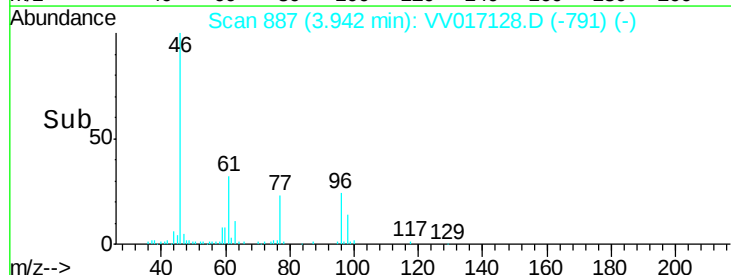
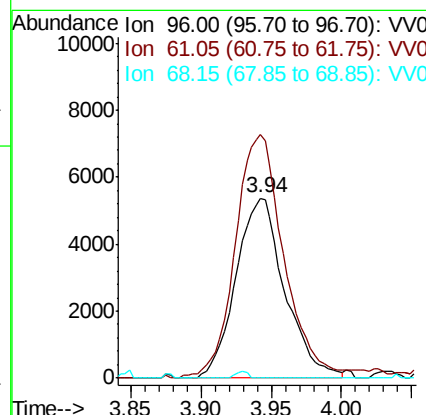
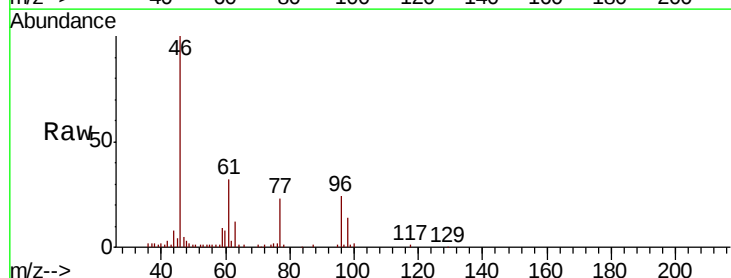
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9L65DL

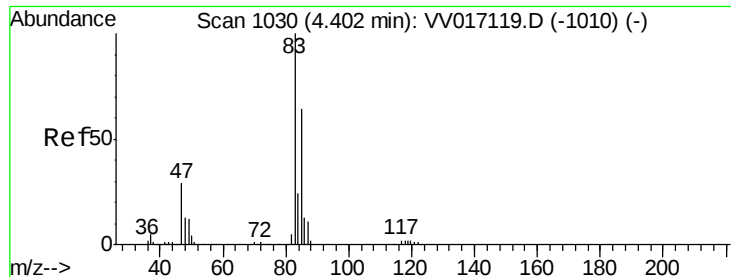
Tot Ion: 73 Resp: 1369  
Ion Ratio Lower Upper  
73 100  
43 19.5 18.6 28.0  
57 33.8 16.4 24.6#



#22  
cis-1,2-Dichloroethene  
Concen: 1.046 ug/L  
RT: 3.94 min Scan# 887  
Delta R.T. 0.01 min  
Lab File: VV017128.D  
Acq: 25 Jun 2020 15:35

Tgt Ion: 96 Resp: 12974  
Ion Ratio Lower Upper  
96 100  
61 135.3 91.0 169.0  
68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.136 ug/L

RT: 4.41 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VV017128.D

Acq: 25 Jun 2020 15:35

Instrument :

MSVOA\_V

ClientSampled :

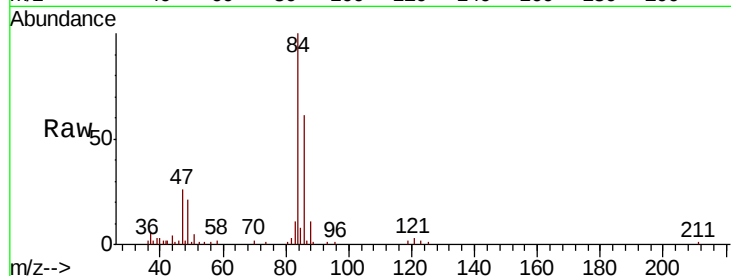
F9L65DL

Tot Ion: 83 Resp: 3035

Ion Ratio Lower Upper

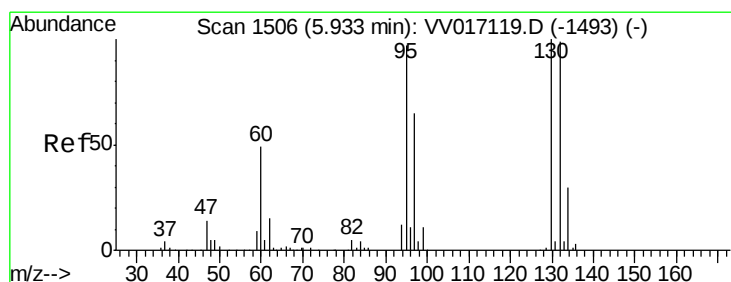
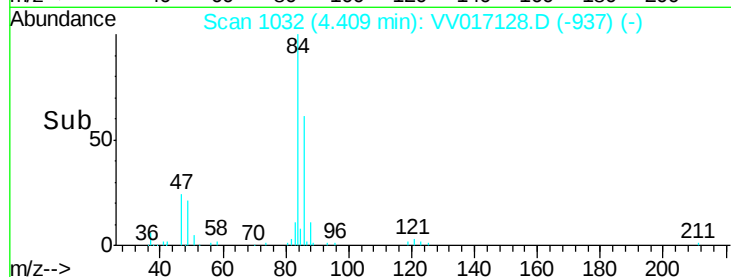
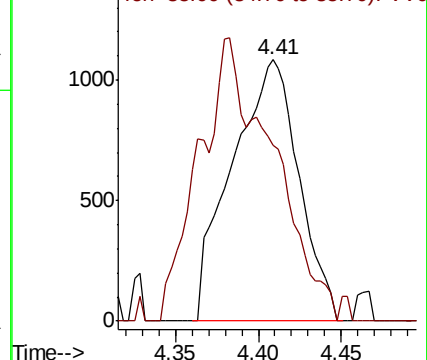
83 100

85 67.0 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#34

Trichloroethene

Concen: 0.465 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV017128.D

Acq: 25 Jun 2020 15:35

Tgt Ion: 95 Resp: 6208

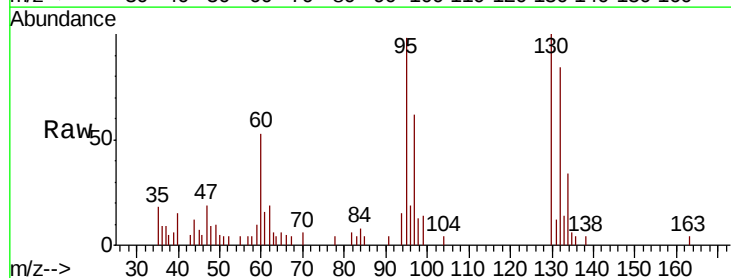
Ion Ratio Lower Upper

95 100

97 63.0 45.3 84.1

132 85.6 68.8 127.8

130 101.9 70.2 130.4

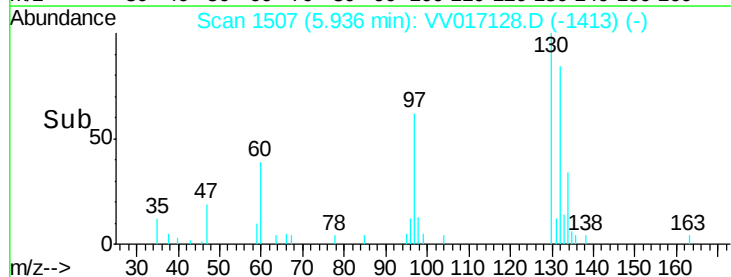
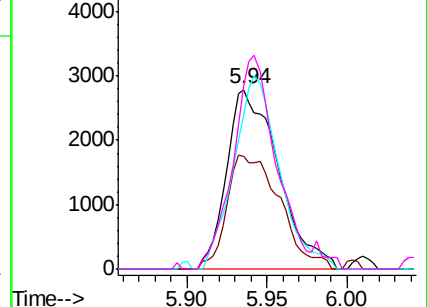


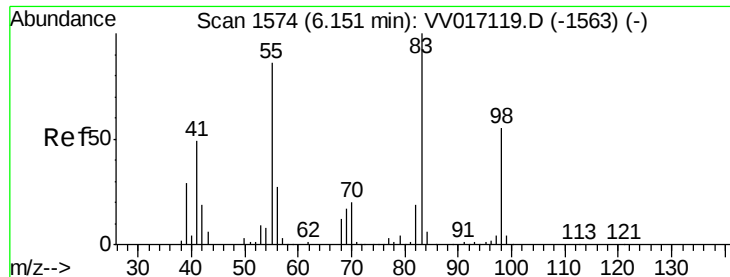
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

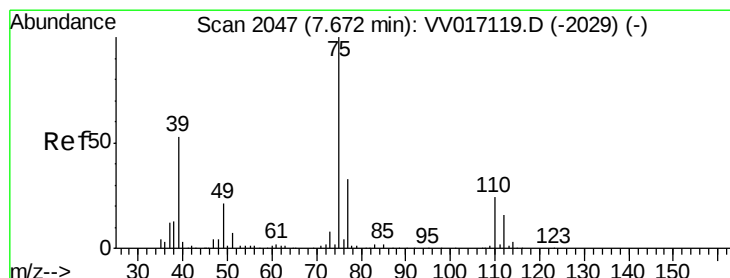
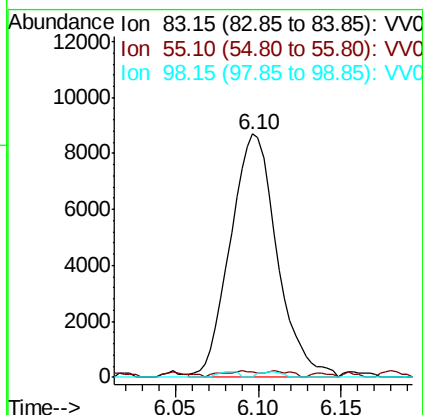
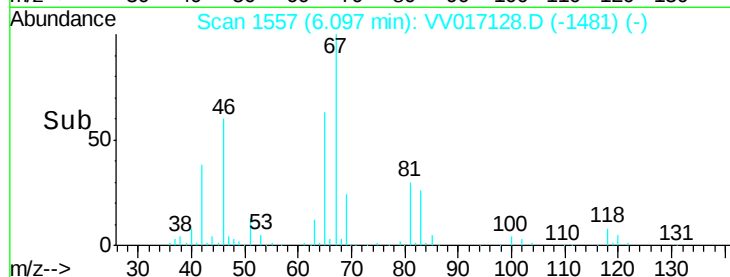
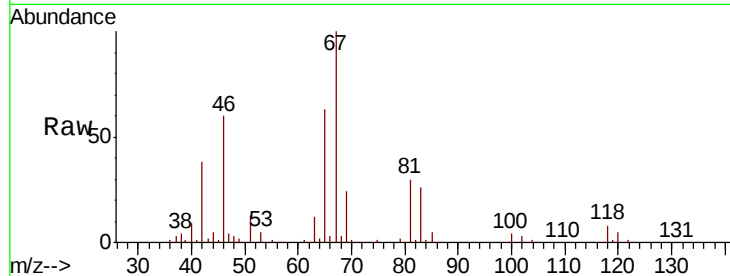




#35  
Methvlcvclohexane  
Concen: 0.821 ug/L  
RT: 6.10 min Scan# 1557  
Delta R.T. -0.05 min  
Lab File: VV017128.D  
Acq: 25 Jun 2020 15:35

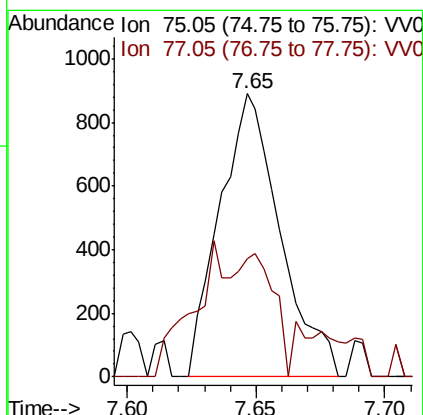
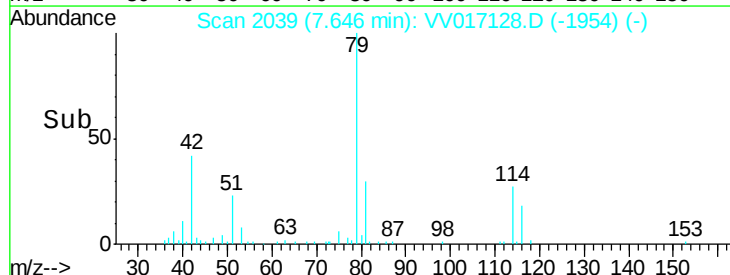
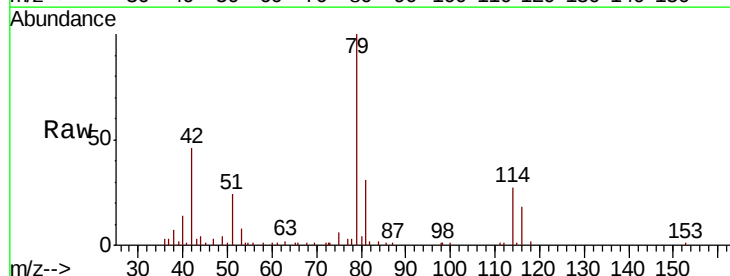
Instrument :  
MSVOA\_V  
ClientSampleId :  
F9L65DL

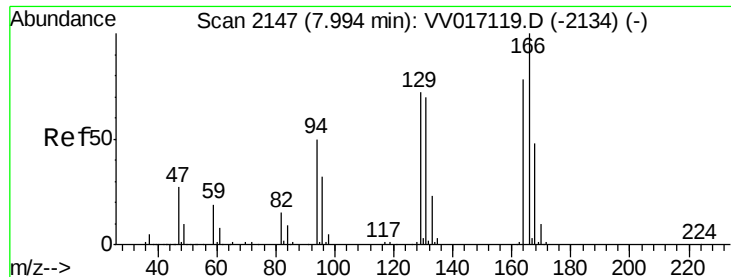
Tot Ion: 83 Resp: 17036  
Ion Ratio Lower Upper  
83 100  
55 1.9 63.6 95.4#  
98 1.0 38.8 58.2#



#46  
trans-1,3-Dichloropropene  
Concen: 0.101 ug/L  
RT: 7.65 min Scan# 2039  
Delta R.T. -0.03 min  
Lab File: VV017128.D  
Acq: 25 Jun 2020 15:35

Tgt Ion: 75 Resp: 1459  
Ion Ratio Lower Upper  
75 100  
77 41.9 22.3 41.3#





#49

Tetrachloroethene

Concen: 5.175 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VV017128.D

Acq: 25 Jun 2020 15:35

Instrument :

MSVOA\_V

ClientSampleId :

F9L65DL

Tot Ion:164 Resp: 55636

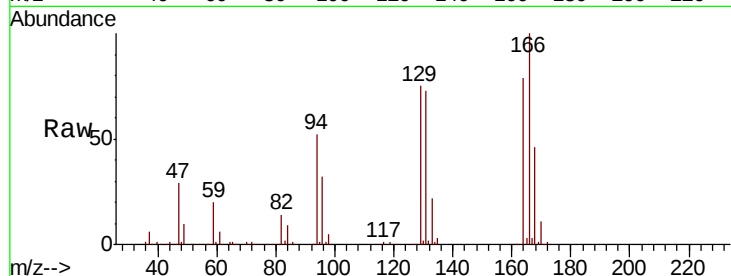
Ion Ratio Lower Upper

164 100

129 95.3 65.2 121.0

131 92.3 64.1 119.1

166 127.1 90.2 167.4

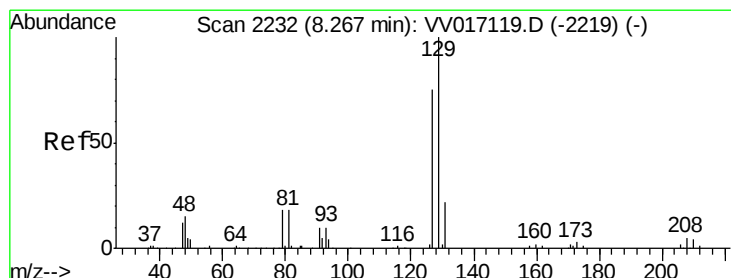
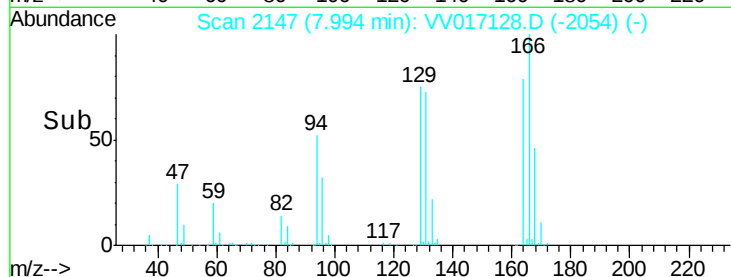
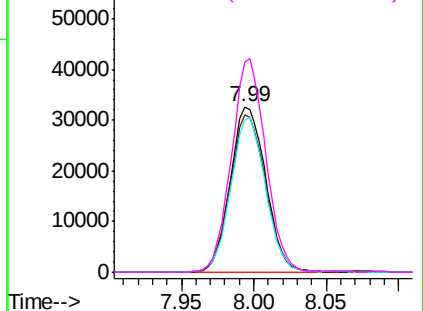


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#51

Dibromochloromethane

Concen: 5.276 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.27 min

Lab File: VV017128.D

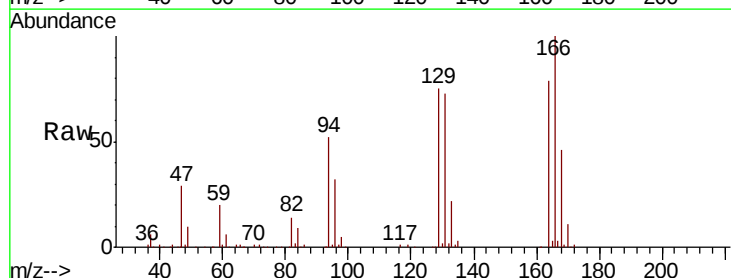
Acq: 25 Jun 2020 15:35

Tgt Ion:129 Resp: 51218

Ion Ratio Lower Upper

129 100

127 0.9 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

