

Data File : VV009620.D  
Acq On : 12 Mar 2019 21:50  
Operator : SY/MD  
Sample : K1818-13ME 5X  
Misc : 5.64g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0R3ME

Quant Time: Mar 13 02:24:35 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 13 02:20:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 159061   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 155439   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 64043    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 43345    | 46.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.08%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 45962    | 46.91    | ug/L | -0.02   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.82%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 86018    | 34.63    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.26%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 64970    | 93.39    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 93.39%  |
| 24) Chloroform-d               | 4.40    | 84    | 93388    | 45.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.82%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 64412    | 47.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.68%  |
| 32) Benzene-d6                 | 5.10    | 84    | 190754   | 47.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.38%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 60443    | 50.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.02% |
| 41) Toluene-d8                 | 7.36    | 98    | 184406   | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.66%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 27892    | 44.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.36%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 46536    | 88.04    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.04%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 83705    | 43.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 86.24%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 63672    | 47.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.26%  |

#### Target Compounds

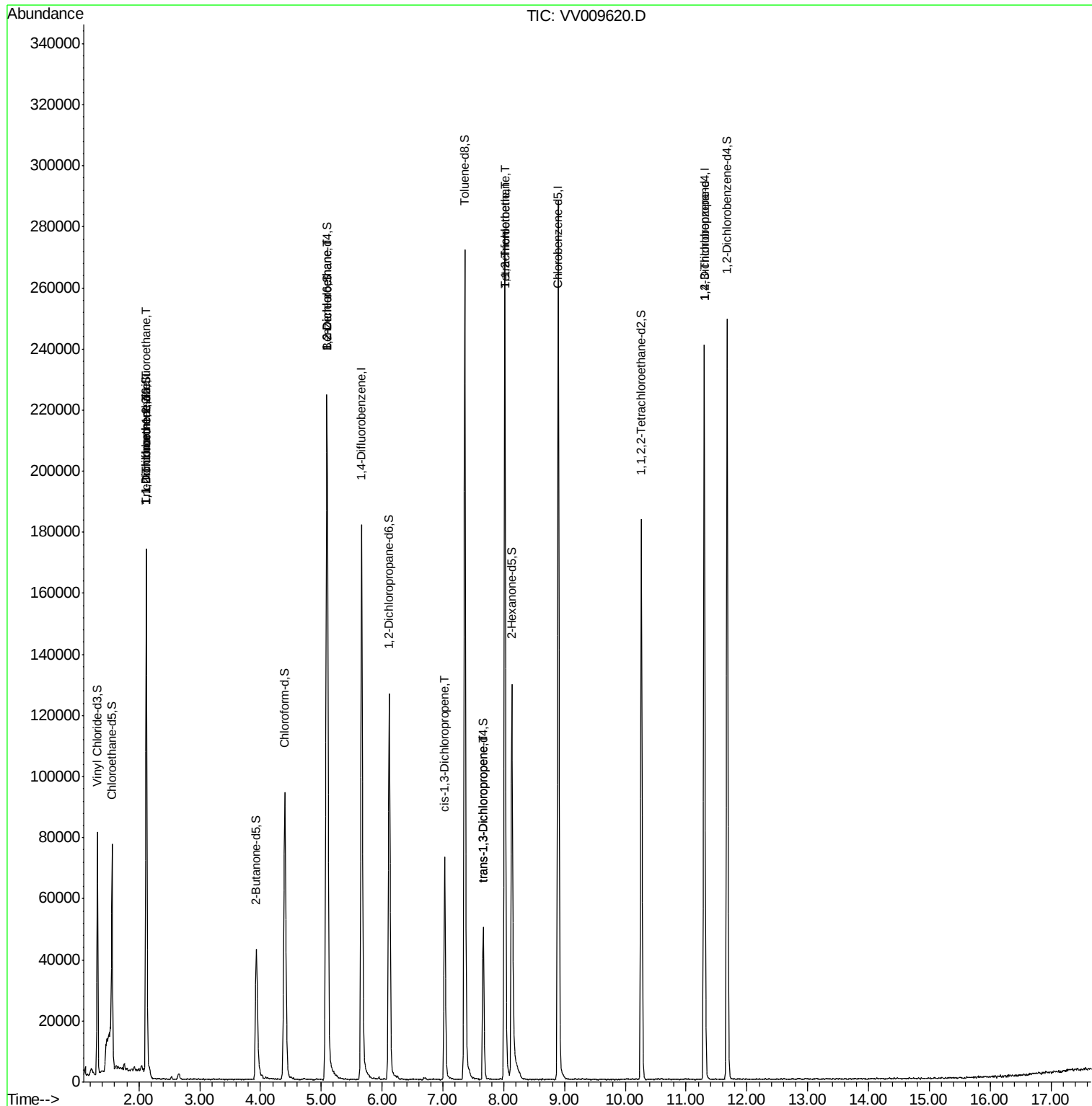
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 9) Trichlorofluoromethane      | 2.13  | 101 | 984   | 0.453  | ug/L # | 42     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 984   | 0.817  | ug/L # | 19     |
| 12) 1,1-Dichloroethene         | 2.12  | 96  | 724   | 0.703  | ug/L # | 1      |
| 27) 1,2-Dichloroethane         | 5.10  | 62  | 1117  | 0.732  | ug/L # | 78     |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 2239  | 1.413  | ug/L # | 71     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1566  | 1.052  | ug/L # | 81     |
| 45) 1,1,2-Trichloroethane      | 8.02  | 97  | 531   | 0.518  | ug/L # | 14     |
| 46) Tetrachloroethene          | 8.02  | 164 | 57066 | 69.712 | ug/L   | 96     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 8992  | 6.670  | ug/L   | 90     |

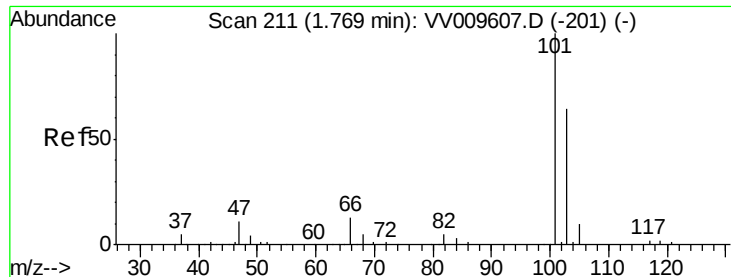
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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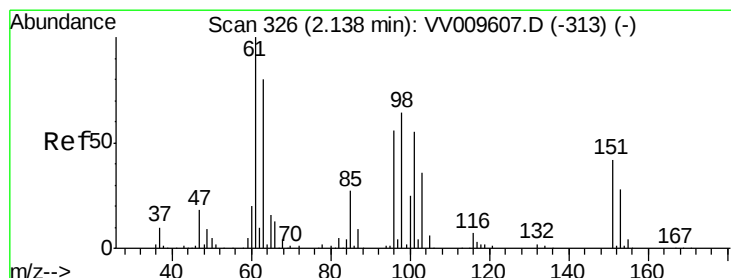
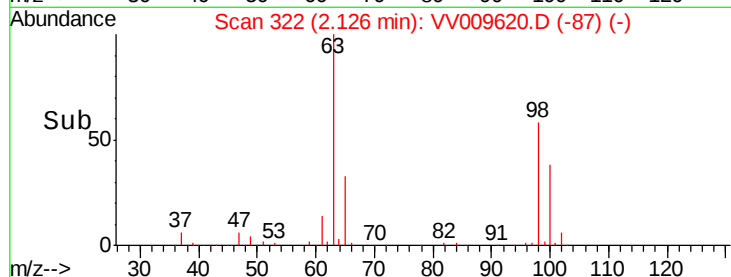
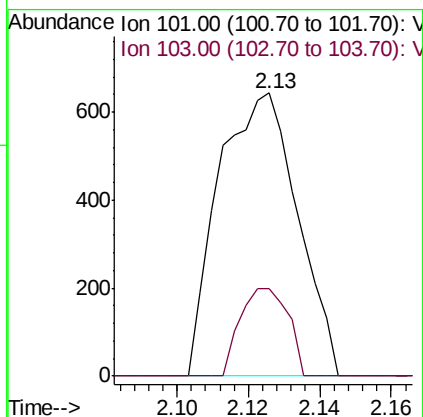
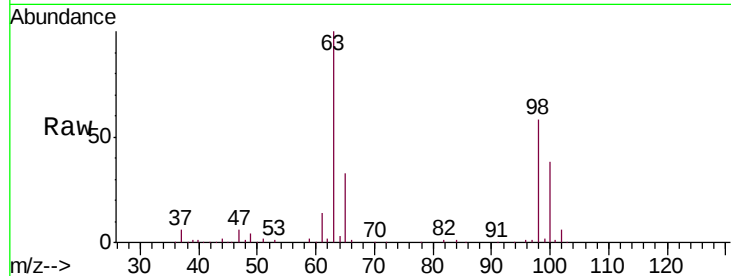


#9

Trichlorofluoromethane  
 Concen: 0.453 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. 0.36 min  
 Lab File: VV009620.D  
 Acq: 12 Mar 2019 21:50

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0R3ME

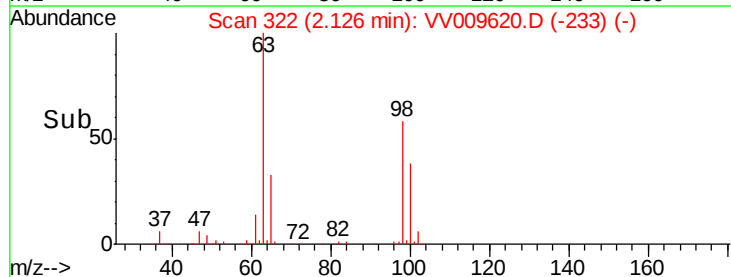
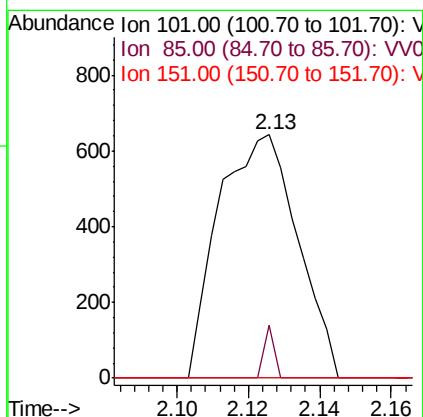
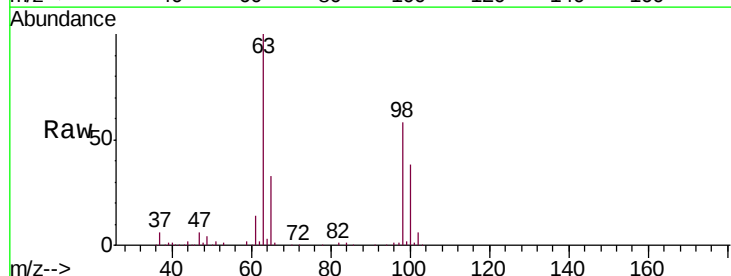
Tgt Ion:101 Resp: 984  
 Ion Ratio Lower Upper  
 101 100  
 103 18.9 51.8 77.6#

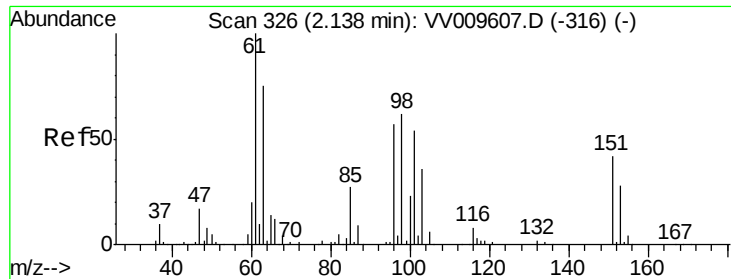


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.817 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. -0.01 min  
 Lab File: VV009620.D  
 Acq: 12 Mar 2019 21:50

Tgt Ion:101 Resp: 984  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 37.8 56.6#  
 151 0.0 59.6 89.4#





#12

1,1-Dichloroethene

Concen: 0.703 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.02 min

Lab File: VV009620.D

Acq: 12 Mar 2019 21:50

Instrument :

MSVOA\_V

ClientSampleId :

BF0R3ME

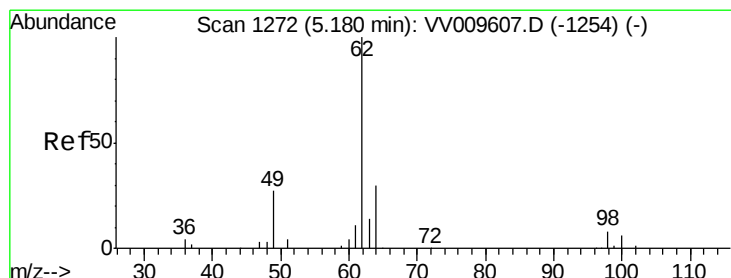
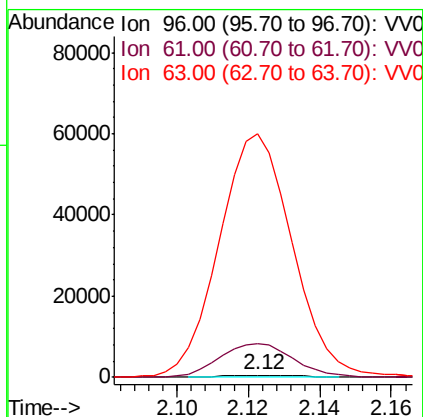
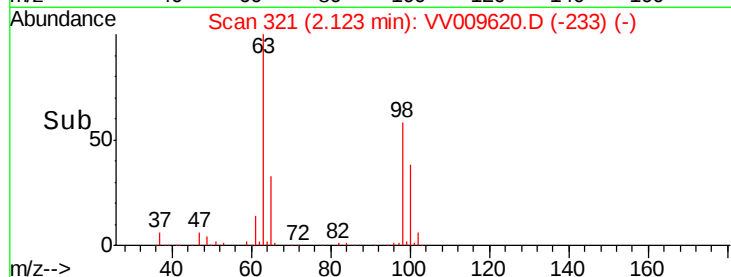
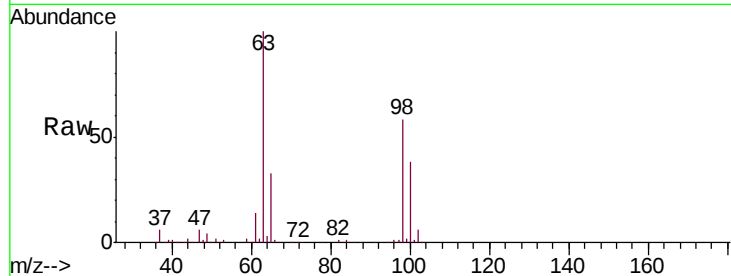
Tgt Ion: 96 Resp: 724

Ion Ratio Lower Upper

96 100

61 1875.6 122.1 226.7#

63 13415.7 107.6 199.8#



#27

1,2-Dichloroethane

Concen: 0.732 ug/L

RT: 5.10 min Scan# 1246

Delta R.T. -0.08 min

Lab File: VV009620.D

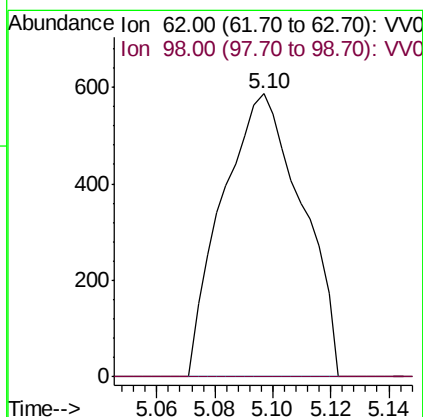
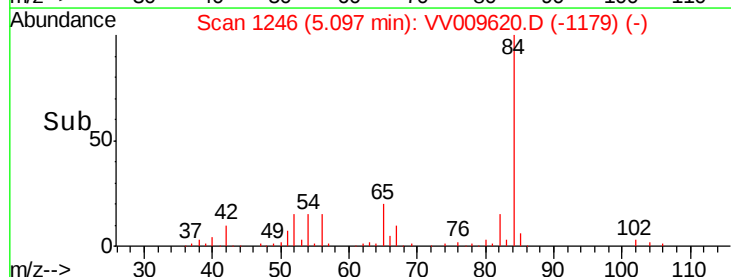
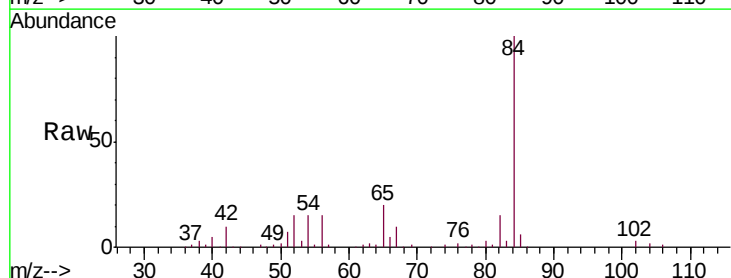
Acq: 12 Mar 2019 21:50

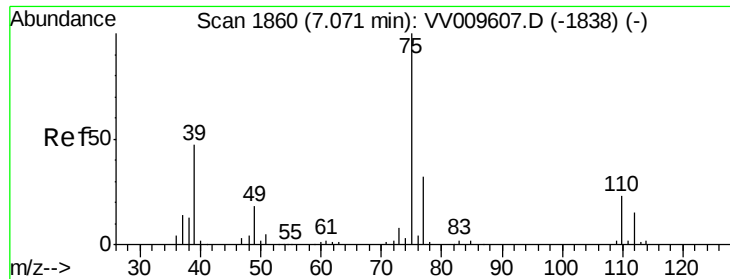
Tgt Ion: 62 Resp: 1117

Ion Ratio Lower Upper

62 100

98 0.0 6.2 9.4#

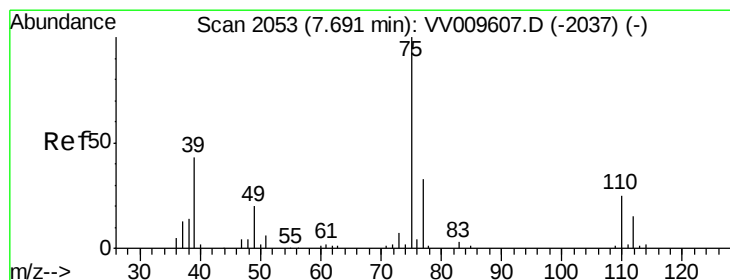
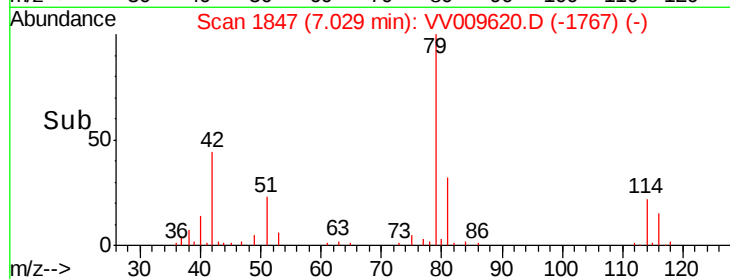
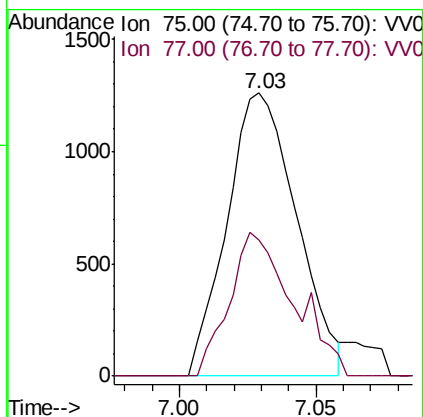
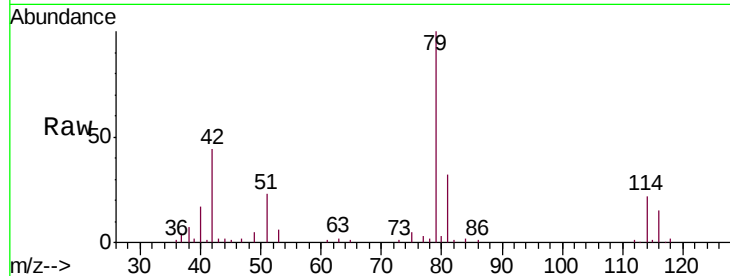




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.413 ug/L  
 RT: 7.03 min Scan# 1847  
 Delta R.T. -0.04 min  
 Lab File: VV009620.D  
 Acq: 12 Mar 2019 21:50

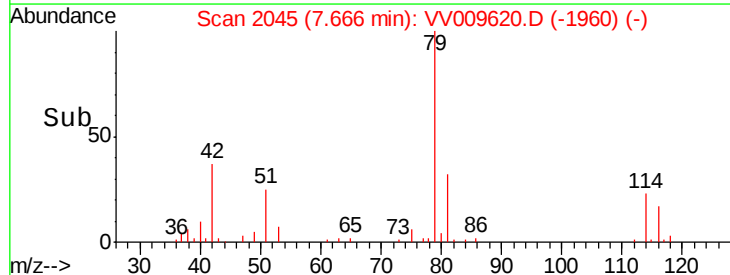
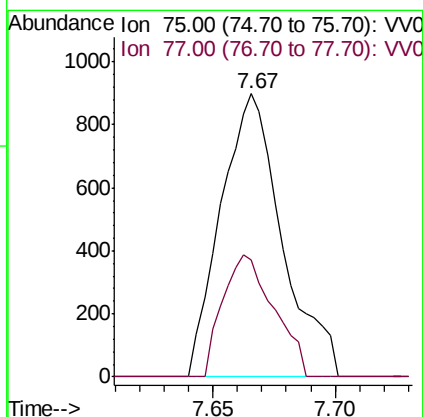
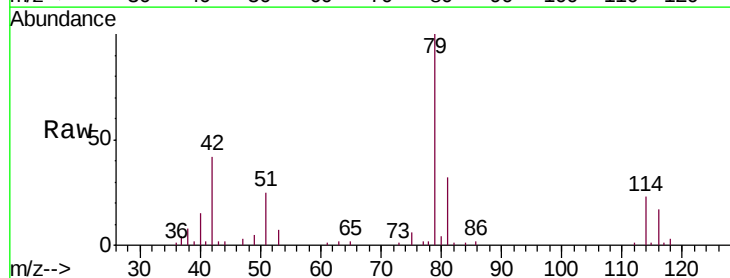
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0R3ME

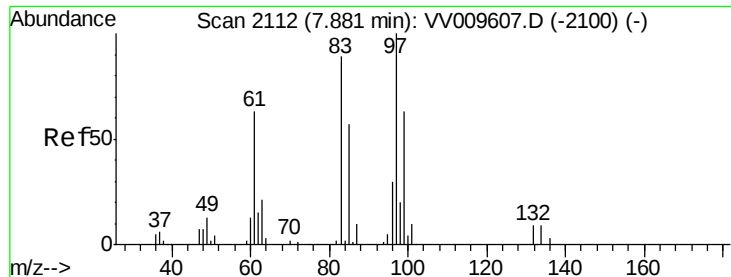
Tgt Ion: 75 Resp: 2239  
 Ion Ratio Lower Upper  
 75 100  
 77 48.0 22.3 41.5#



#44  
 trans-1,3-Dichloropropene  
 Concen: 1.052 ug/L  
 RT: 7.67 min Scan# 2045  
 Delta R.T. -0.03 min  
 Lab File: VV009620.D  
 Acq: 12 Mar 2019 21:50

Tgt Ion: 75 Resp: 1566  
 Ion Ratio Lower Upper  
 75 100  
 77 41.4 21.6 40.2#





#45

1,1,2-Trichloroethane

Concen: 0.518 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.14 min

Lab File: VV009620.D

Acq: 12 Mar 2019 21:50

Instrument :

MSVOA\_V

ClientSampleId :

BFOR3ME

Tgt Ion: 97 Resp: 531

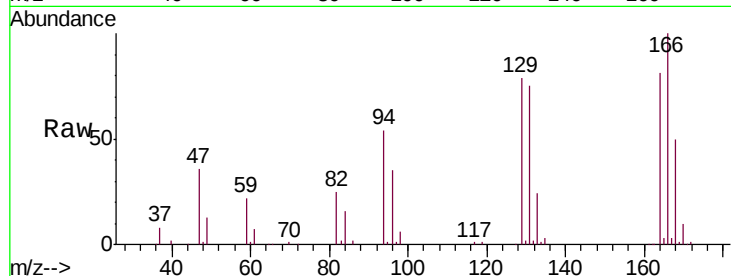
Ion Ratio Lower Upper

97 100

99 0.0 44.0 81.8#

83 176.1 61.5 114.3#

85 0.0 41.0 76.2#

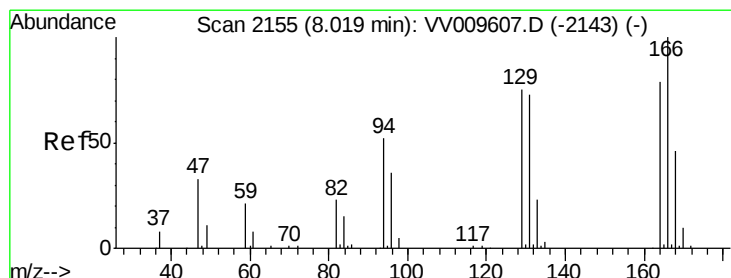
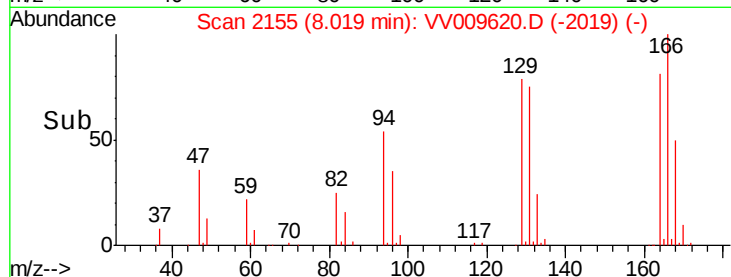
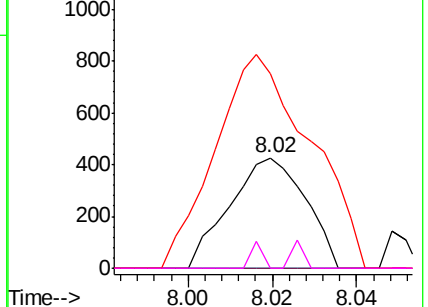


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 69.712 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009620.D

Acq: 12 Mar 2019 21:50

Tgt Ion: 164 Resp: 57066

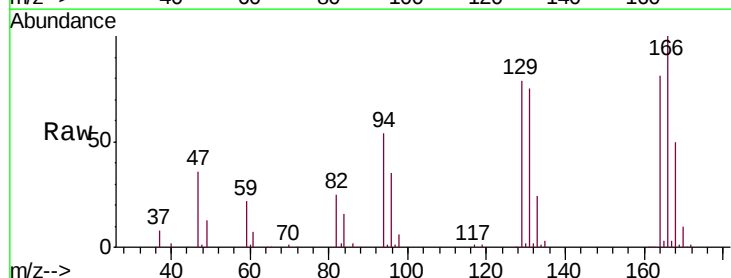
Ion Ratio Lower Upper

164 100

129 97.1 70.8 131.6

131 92.0 68.3 126.9

166 123.4 89.5 166.3

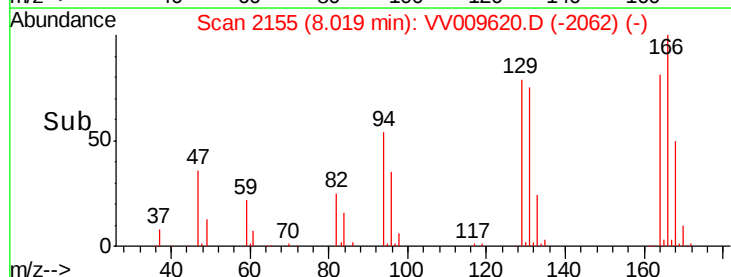
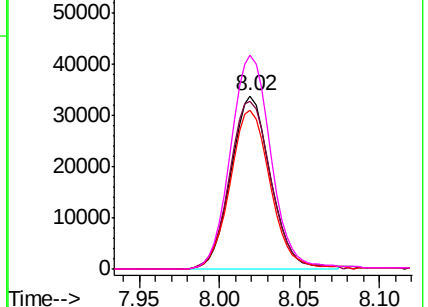


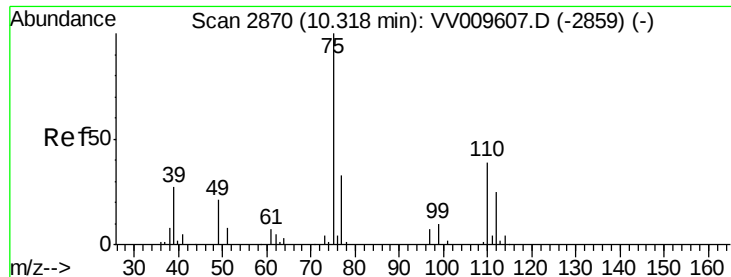
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#59  
 1,2,3-Trichloropropane  
 Concen: 6.670 ug/L  
 RT: 11.30 min Scan# 3175  
 Delta R.T. 0.98 min  
 Lab File: VV009620.D  
 Acq: 12 Mar 2019 21:50

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0R3ME

Tgt Ion: 75 Resp: 8992  
 Ion Ratio Lower Upper  
 75 100  
 77 38.7 26.6 40.0

