

Data File : VV009619.D  
Acq On : 12 Mar 2019 21:26  
Operator : SY/MD  
Sample : K1818-12ME  
Misc : 5.80g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0R2ME

Quant Time: Mar 13 02:24:25 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  | 166455   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 167273   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 73799    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 41684    | 42.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 84.62%  |
| 7) Chloroethane-d5             | 1.55    | 69    | 23915    | 23.32    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 46.64%# |
| 11) 1,1-Dichloroethene-d2      | 2.10    | 63    | 87815    | 33.79    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.58%  |
| 21) 2-Butanone-d5              | 3.95    | 46    | 70787    | 97.23    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 97.23%  |
| 24) Chloroform-d               | 4.40    | 84    | 99274    | 46.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.26%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 68487    | 48.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.20%  |
| 32) Benzene-d6                 | 5.09    | 84    | 201489   | 46.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.64%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 63175    | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.14%  |
| 41) Toluene-d8                 | 7.36    | 98    | 195410   | 46.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.22%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 30129    | 44.85    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.70%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 57385    | 100.88   | ug/L | 0.01    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.88% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 99405    | 47.58    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.16%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 73958    | 47.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 95.00%  |

#### Target Compounds

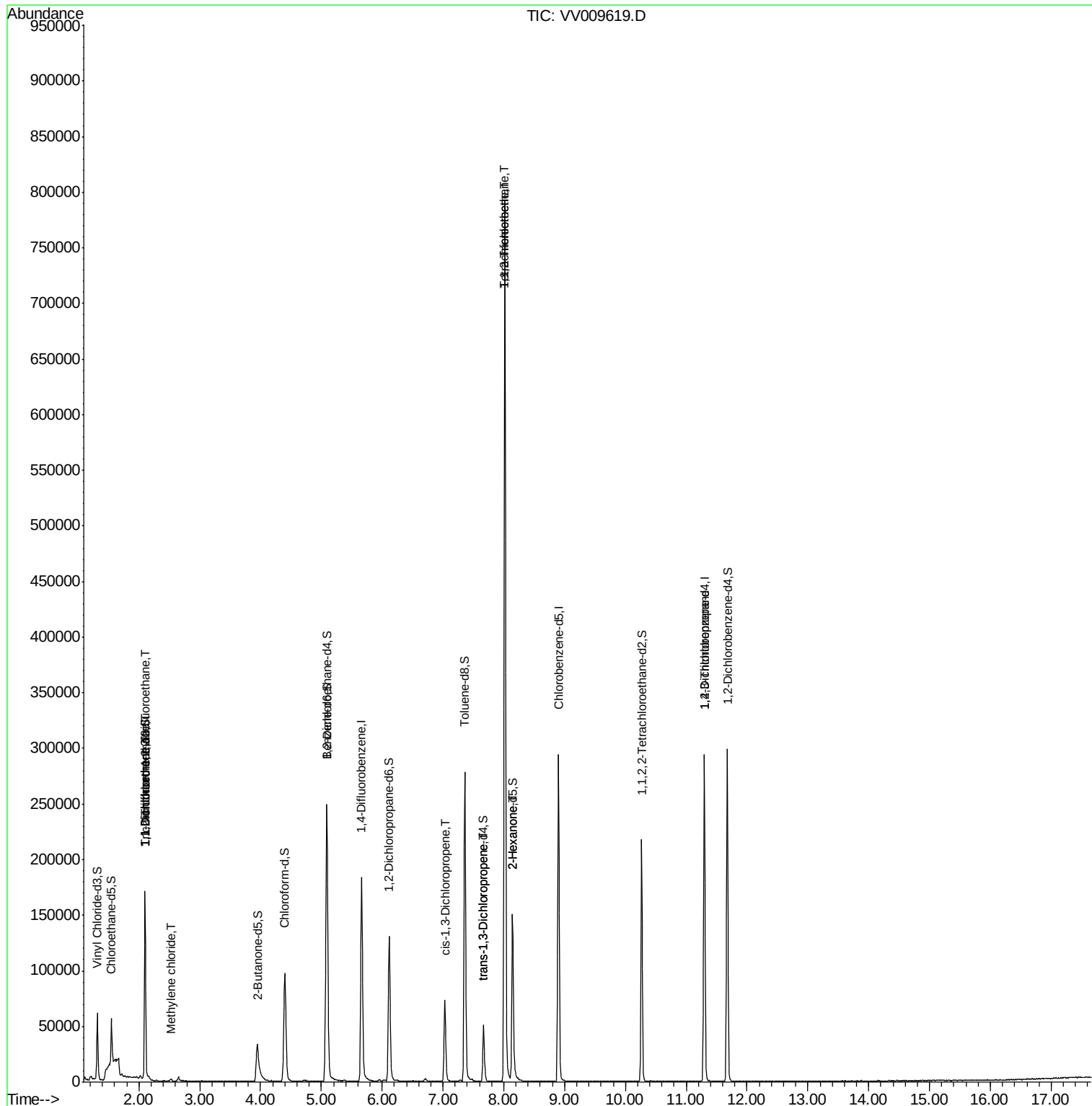
|                                |       |     |        |         |        | Qvalue |
|--------------------------------|-------|-----|--------|---------|--------|--------|
| 9) Trichlorofluoromethane      | 2.10  | 101 | 870    | 0.383   | ug/L # | 34     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.10  | 101 | 870    | 0.690   | ug/L # | 24     |
| 12) 1,1-Dichloroethene         | 2.10  | 96  | 886    | 0.822   | ug/L # | 1      |
| 16) Methylene chloride         | 2.52  | 84  | 623    | 0.594   | ug/L   | 87     |
| 39) cis-1,3-Dichloropropene    | 7.04  | 75  | 2432   | 1.426   | ug/L # | 69     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1604   | 1.002   | ug/L # | 76     |
| 45) 1,1,2-Trichloroethane      | 8.01  | 97  | 941    | 0.853   | ug/L # | 32     |
| 46) Tetrachloroethene          | 8.02  | 164 | 162846 | 184.859 | ug/L   | 100    |
| 48) 2-Hexanone                 | 8.14  | 43  | 6910   | 6.029   | ug/L # | 66     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 10174  | 7.012   | ug/L   | 90     |

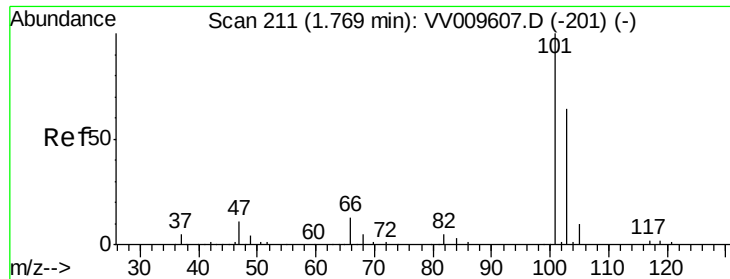
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 13 02:24:25 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





#9

Trichlorofluoromethane

Concen: 0.383 ug/L

RT: 2.10 min Scan# 314

Delta R.T. 0.33 min

Lab File: VV009619.D

Acq: 12 Mar 2019 21:26

Instrument :

MSVOA\_V

ClientSampleId :

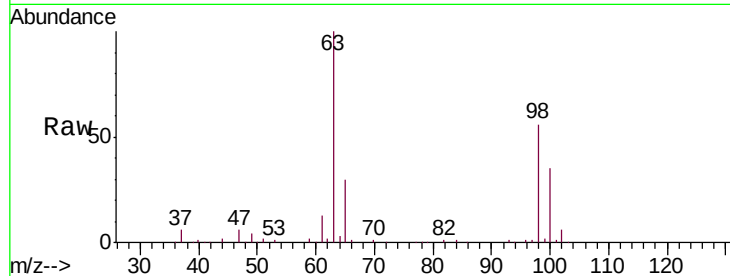
BF0R2ME

Tgt Ion:101 Resp: 870

Ion Ratio Lower Upper

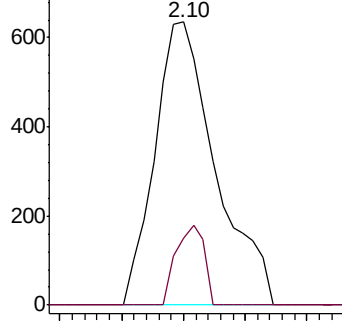
101 100

103 13.0 51.8 77.6#

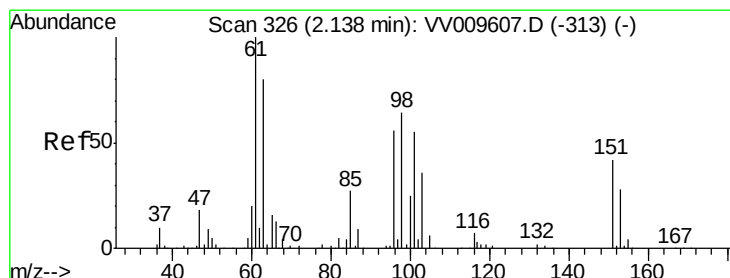
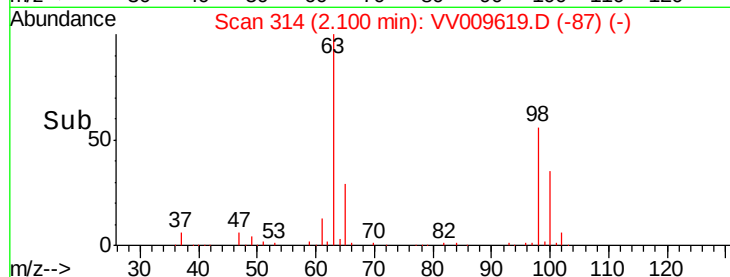


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



Time-->



#10

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

Concen: 0.690 ug/L

RT: 2.10 min Scan# 314

Delta R.T. -0.04 min

Lab File: VV009619.D

Acq: 12 Mar 2019 21:26

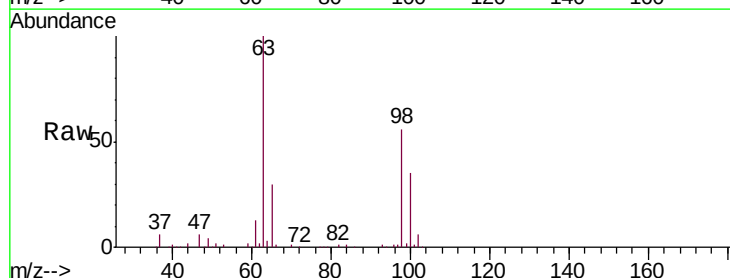
Tgt Ion:101 Resp: 870

Ion Ratio Lower Upper

101 100

85 0.0 37.8 56.6#

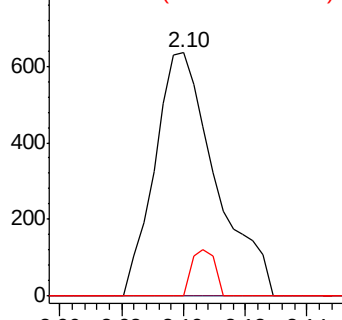
151 7.2 59.6 89.4#



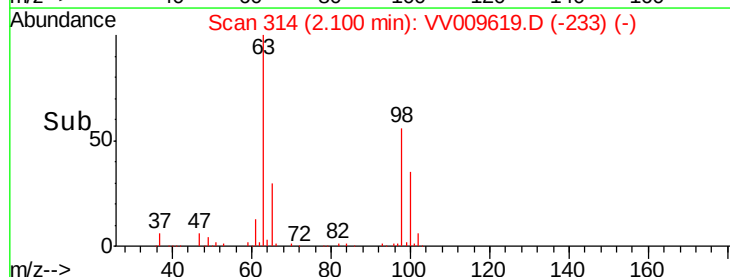
Abundance Ion 101.00 (100.70 to 101.70): V

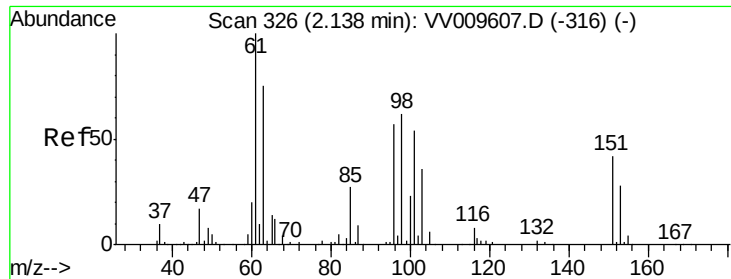
Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



Time-->

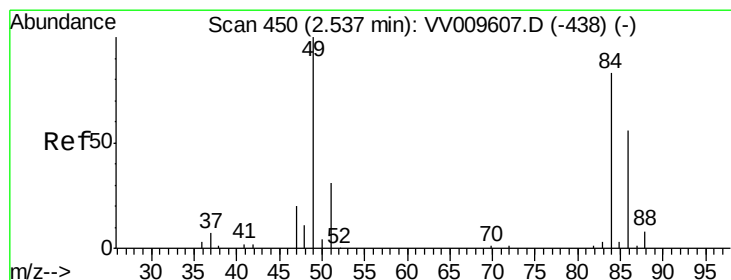
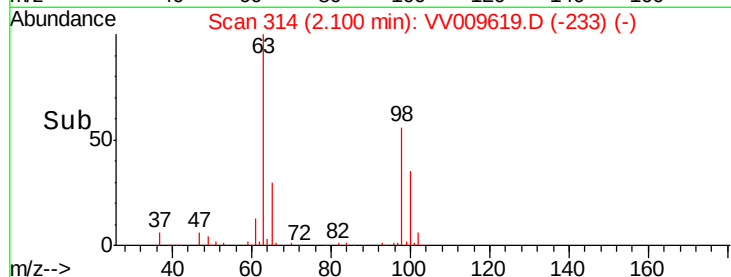
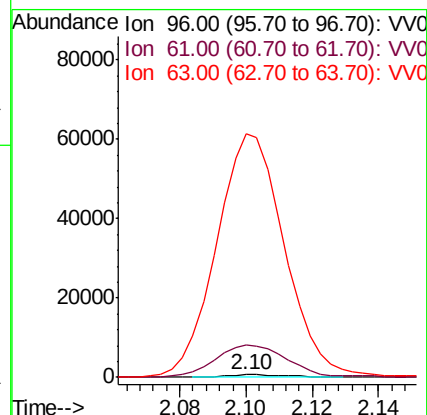
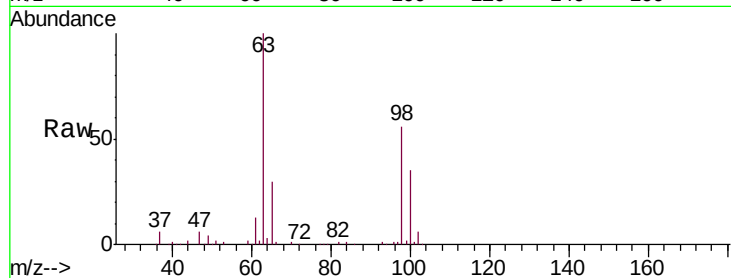




#12  
 1,1-Dichloroethene  
 Concen: 0.822 ug/L  
 RT: 2.10 min Scan# 314  
 Delta R.T. -0.04 min  
 Lab File: VV009619.D  
 Acq: 12 Mar 2019 21:26

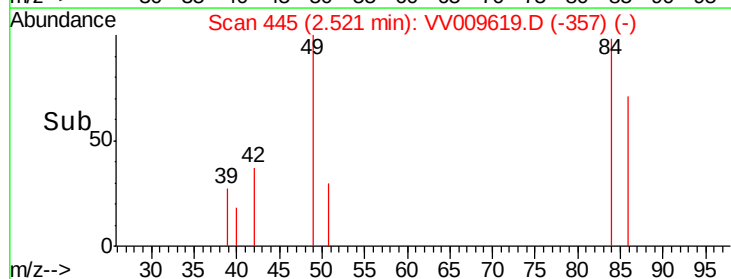
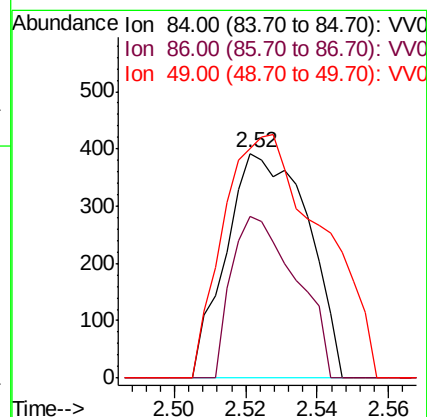
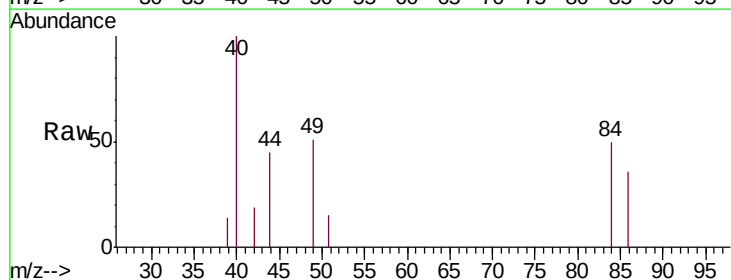
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0R2ME

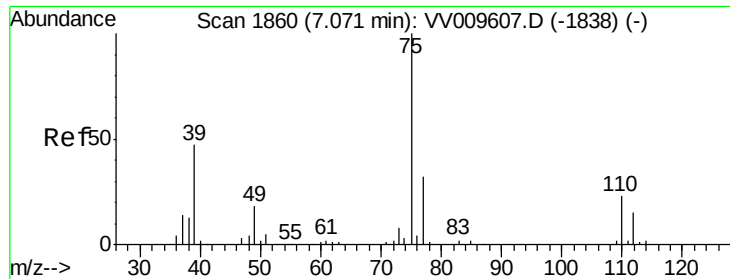
Tgt Ion: 96 Resp: 886  
 Ion Ratio Lower Upper  
 96 100  
 61 1305.0 122.1 226.7#  
 63 9886.0 107.6 199.8#



#16  
 Methylene chloride  
 Concen: 0.594 ug/L  
 RT: 2.52 min Scan# 445  
 Delta R.T. -0.02 min  
 Lab File: VV009619.D  
 Acq: 12 Mar 2019 21:26

Tgt Ion: 84 Resp: 623  
 Ion Ratio Lower Upper  
 84 100  
 86 72.2 44.0 81.6  
 49 102.3 82.0 152.4

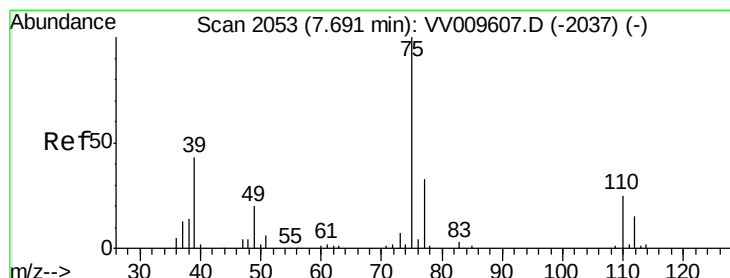
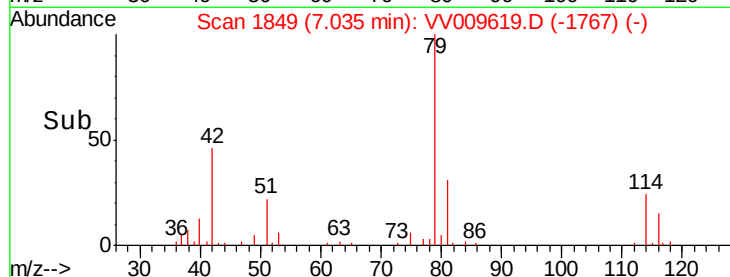
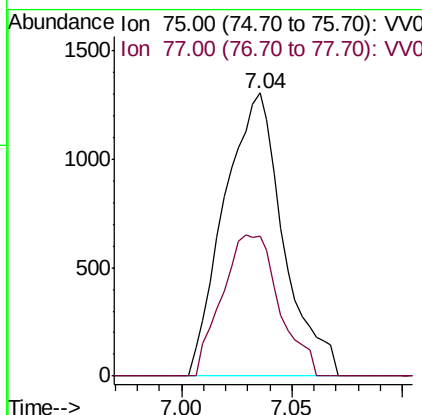
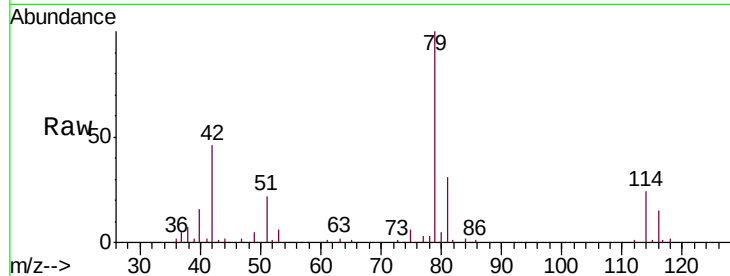




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.426 ug/L  
 RT: 7.04 min Scan# 1849  
 Delta R.T. -0.04 min  
 Lab File: VV009619.D  
 Acq: 12 Mar 2019 21:26

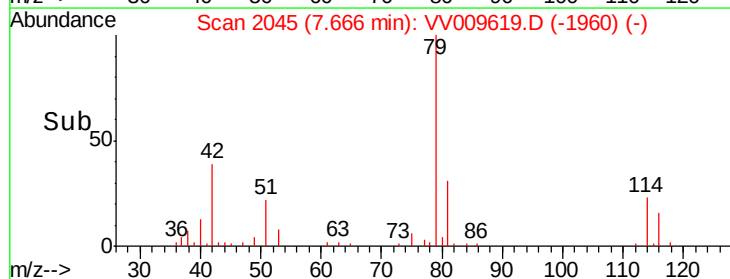
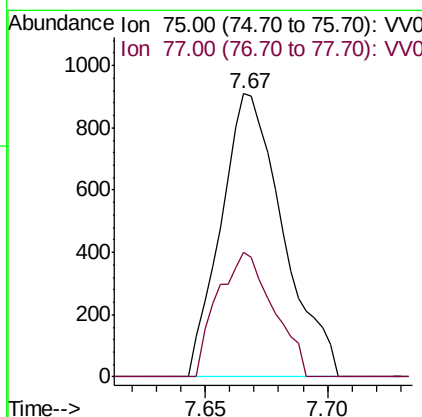
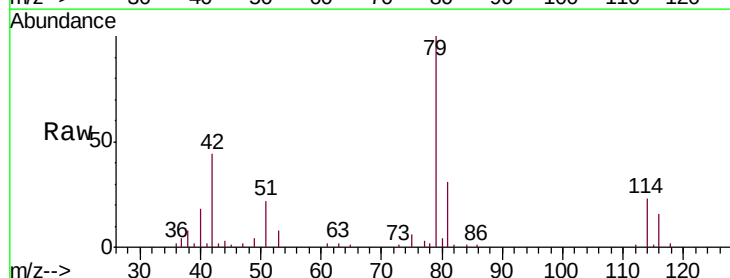
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0R2ME

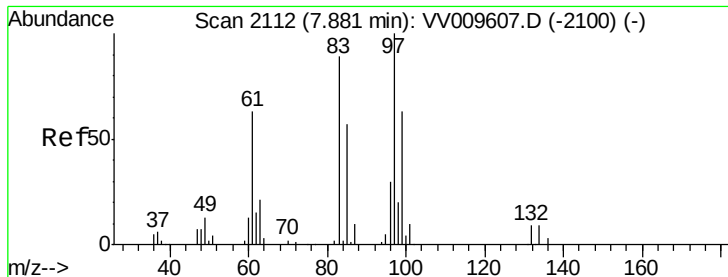
Tgt Ion: 75 Resp: 2432  
 Ion Ratio Lower Upper  
 75 100  
 77 49.3 22.3 41.5#



#44  
 trans-1,3-Dichloropropene  
 Concen: 1.002 ug/L  
 RT: 7.67 min Scan# 2045  
 Delta R.T. -0.03 min  
 Lab File: VV009619.D  
 Acq: 12 Mar 2019 21:26

Tgt Ion: 75 Resp: 1604  
 Ion Ratio Lower Upper  
 75 100  
 77 44.0 21.6 40.2#





#45

1,1,2-Trichloroethane

Concen: 0.853 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. 0.13 min

Lab File: VV009619.D

Acq: 12 Mar 2019 21:26

Instrument :

MSVOA\_V

ClientSampleId :

BF0R2ME

Tgt Ion: 97 Resp: 941

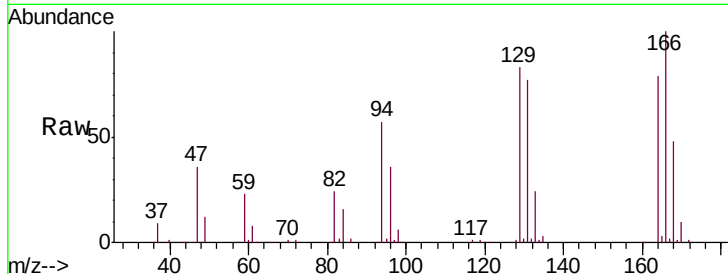
Ion Ratio Lower Upper

97 100

99 30.8 44.0 81.8#

83 201.3 61.5 114.3#

85 45.7 41.0 76.2

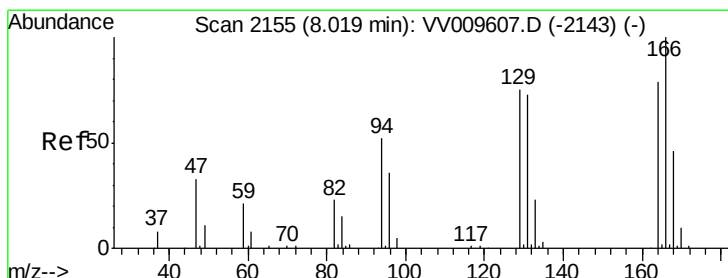
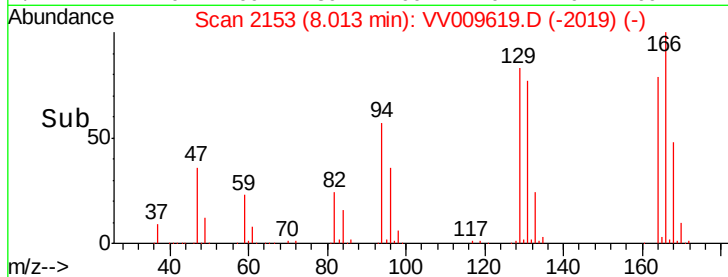
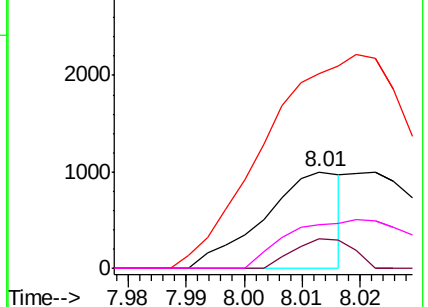


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 184.859 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009619.D

Acq: 12 Mar 2019 21:26

Tgt Ion:164 Resp: 162846

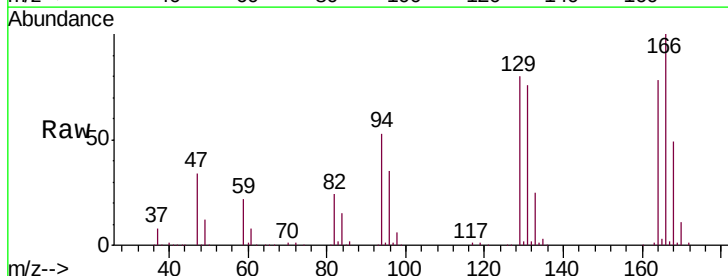
Ion Ratio Lower Upper

164 100

129 102.1 70.8 131.6

131 97.7 68.3 126.9

166 128.2 89.5 166.3

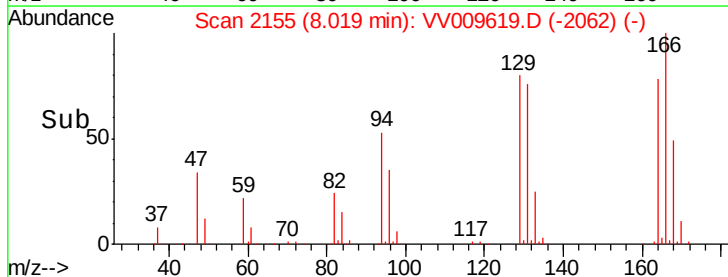
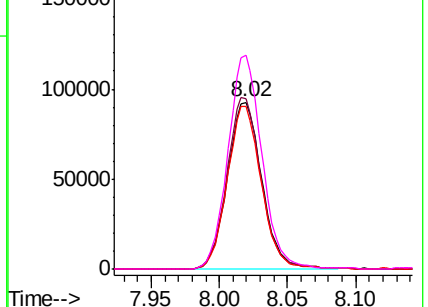


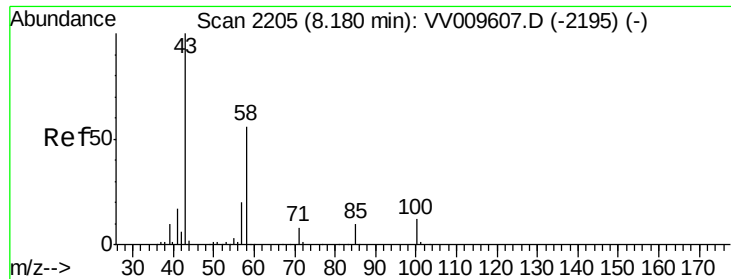
Abundance Ion 164.00 (163.70 to 164.70): V

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

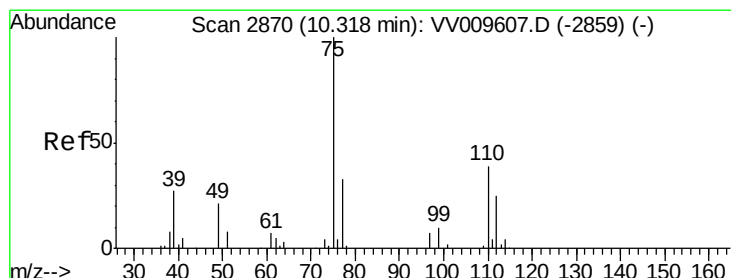
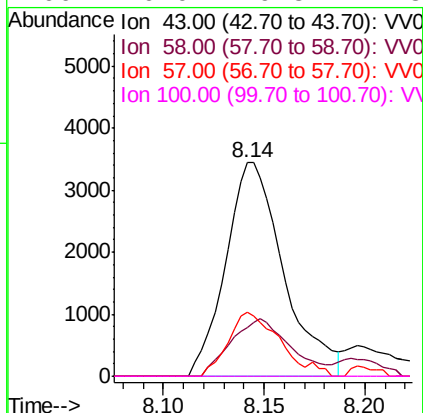
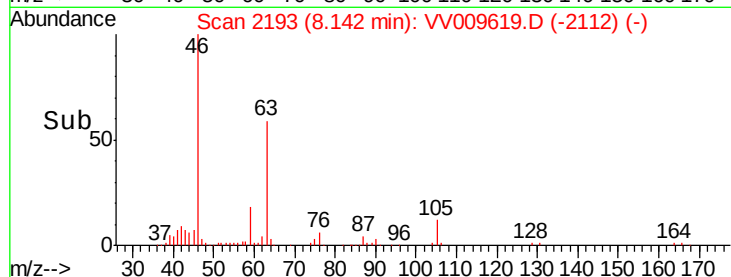
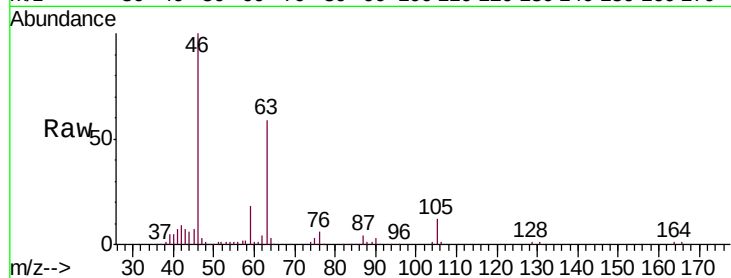




#48  
 2-Hexanone  
 Concen: 6.029 ug/L  
 RT: 8.14 min Scan# 2193  
 Delta R.T. -0.04 min  
 Lab File: VV009619.D  
 Acq: 12 Mar 2019 21:26

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BF0R2ME

Tgt Ion: 43 Resp: 6910  
 Ion Ratio Lower Upper  
 43 100  
 58 27.3 45.8 68.8#  
 57 25.5 14.5 21.7#  
 100 0.0 9.8 14.8#



#59  
 1,2,3-Trichloropropane  
 Concen: 7.012 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.98 min  
 Lab File: VV009619.D  
 Acq: 12 Mar 2019 21:26

Tgt Ion: 75 Resp: 10174  
 Ion Ratio Lower Upper  
 75 100  
 77 38.7 26.6 40.0

