

Data File : VV009621.D  
Acq On : 12 Mar 2019 22:13  
Operator : SY/MD  
Sample : K1818-14ME 5X  
Misc : 5.82g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0R4ME

Quant Time: Mar 13 02:24:45 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     | 5.67  | 114  | 153573   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 151962   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 63412    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 42933    | 47.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.48%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 46034    | 48.66    | ug/L | -0.02   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.32%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 88727    | 37.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.00%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 68203    | 101.54   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.54% |
| 24) Chloroform-d               | 4.40    | 84    | 92162    | 46.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.84%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 65263    | 49.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.36%  |
| 32) Benzene-d6                 | 5.10    | 84    | 191810   | 48.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.08%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 60598    | 51.29    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.58% |
| 41) Toluene-d8                 | 7.36    | 98    | 188235   | 48.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.80%  |
| 43) trans-1,3-Dichloropropene- | 7.66    | 79    | 27669    | 45.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.68%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 49674    | 96.12    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 96.12%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 86209    | 45.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 90.84%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 65717    | 49.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.26%  |

#### Target Compounds

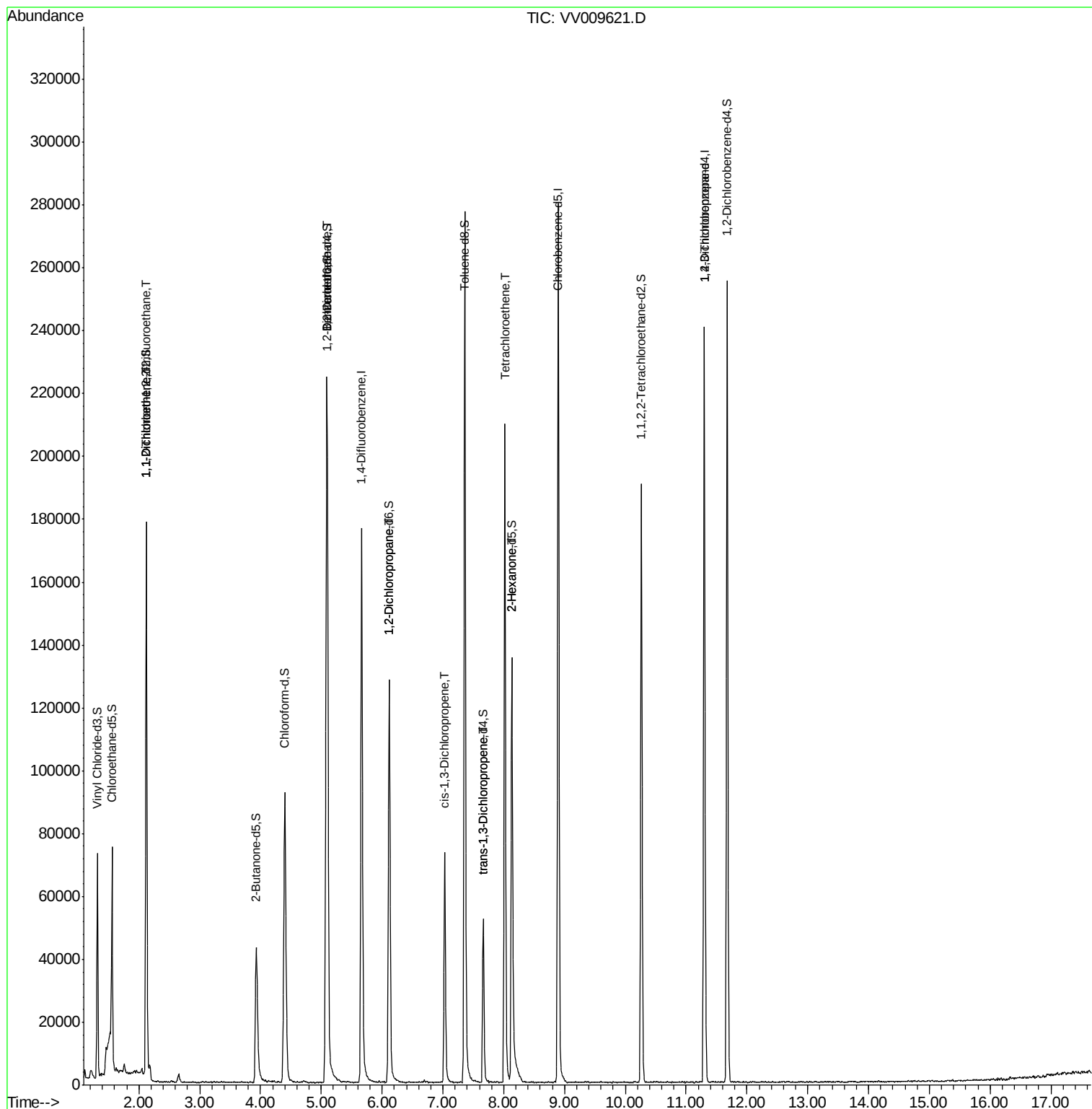
|                                |       |     |       |        | Qvalue |    |
|--------------------------------|-------|-----|-------|--------|--------|----|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.12  | 101 | 738   | 0.635  | ug/L # | 19 |
| 12) 1,1-Dichloroethene         | 2.12  | 96  | 788   | 0.792  | ug/L # | 1  |
| 27) 1,2-Dichloroethane         | 5.10  | 62  | 1163  | 0.789  | ug/L # | 78 |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 7214  | 7.421  | ug/L # | 87 |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 2265  | 1.462  | ug/L # | 70 |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1812  | 1.245  | ug/L   | 97 |
| 46) Tetrachloroethene          | 8.02  | 164 | 42143 | 52.660 | ug/L   | 97 |
| 48) 2-Hexanone                 | 8.14  | 43  | 6450  | 6.195  | ug/L # | 66 |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 8597  | 6.522  | ug/L   | 89 |

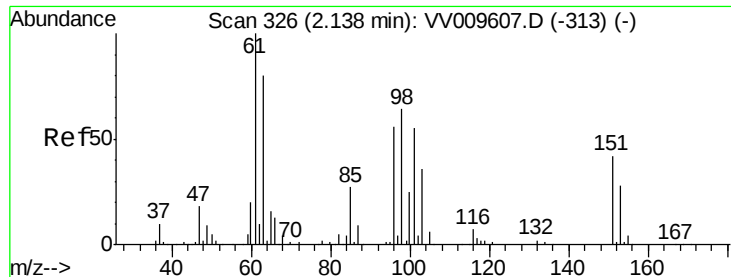
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 13 02:20:07 2019  
Response via : Initial Calibration





#10

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

Concen: 0.635 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.02 min

Lab File: VV009621.D

Acq: 12 Mar 2019 22:13

Instrument :

MSVOA\_V

ClientSampleId :

BF0R4ME

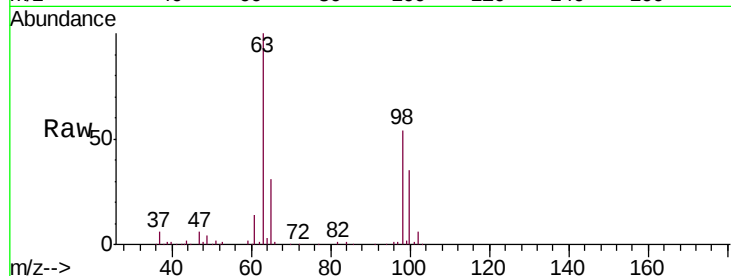
Tgt Ion:101 Resp: 738

Ion Ratio Lower Upper

101 100

85 0.0 37.8 56.6#

151 0.0 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

2.12

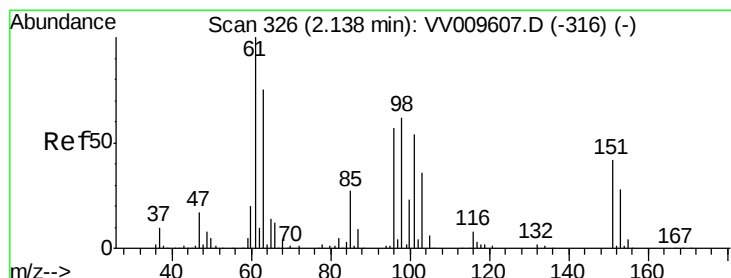
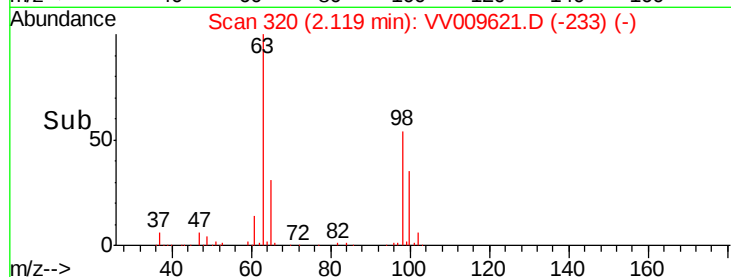
400

200

0

2.10 2.12 2.14

Time-->



#12

1,1-Dichloroethene

Concen: 0.792 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.02 min

Lab File: VV009621.D

Acq: 12 Mar 2019 22:13

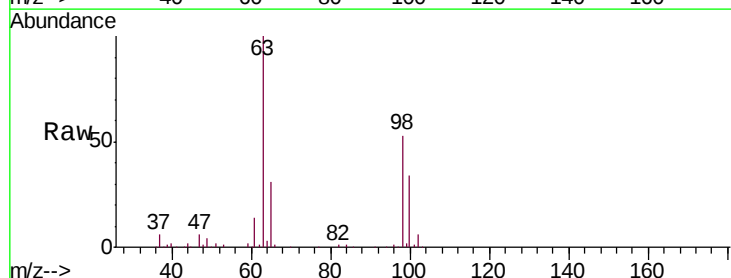
Tgt Ion: 96 Resp: 788

Ion Ratio Lower Upper

96 100

61 1402.1 122.1 226.7#

63 10084.6 107.6 199.8#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

80000

60000

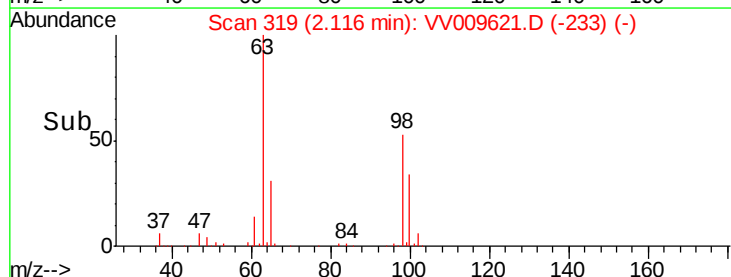
40000

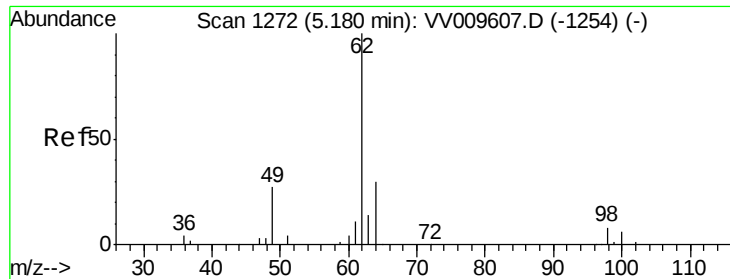
20000

0

2.10 2.12 2.14

Time-->





#27

1,2-Dichloroethane

Concen: 0.789 ug/L

RT: 5.10 min Scan# 1246

Delta R.T. -0.08 min

Lab File: VV009621.D

Acq: 12 Mar 2019 22:13

Instrument :

MSVOA\_V

ClientSampleId :

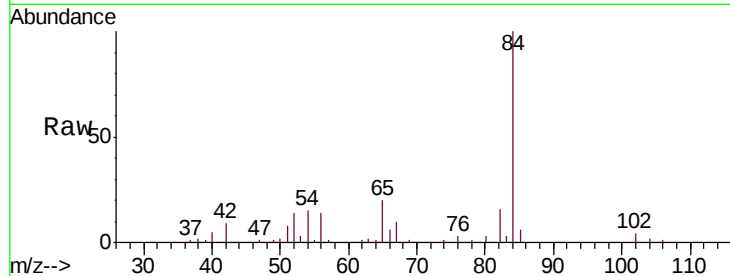
BF0R4ME

Tgt Ion: 62 Resp: 1163

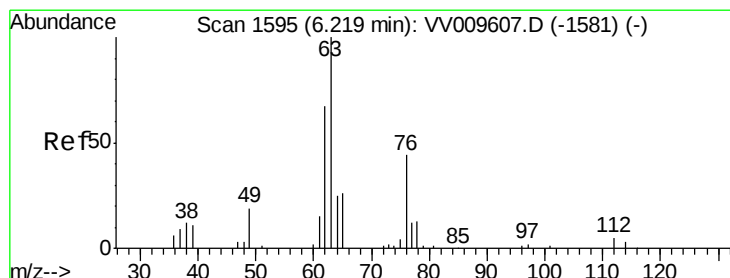
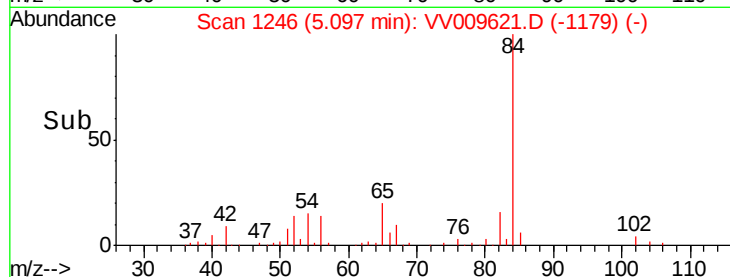
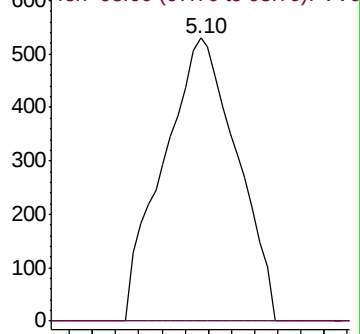
Ion Ratio Lower Upper

62 100

98 0.0 6.2 9.4#



Abundance Ion 62.00 (61.70 to 62.70): VV009607.D (-1254) (-)



#37

1,2-Dichloropropane

Concen: 7.421 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV009621.D

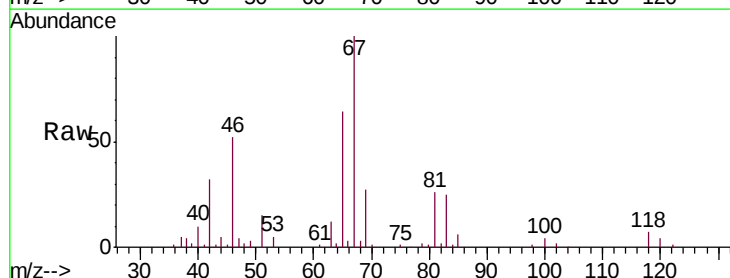
Acq: 12 Mar 2019 22:13

Tgt Ion: 63 Resp: 7214

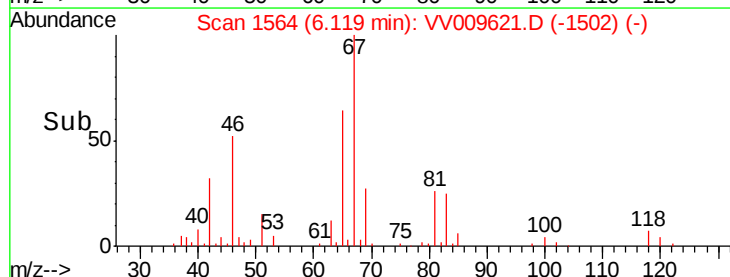
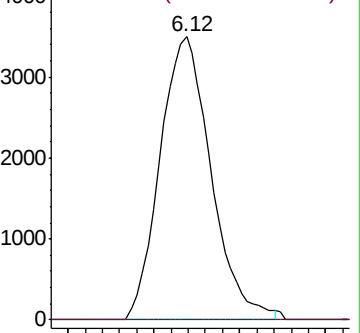
Ion Ratio Lower Upper

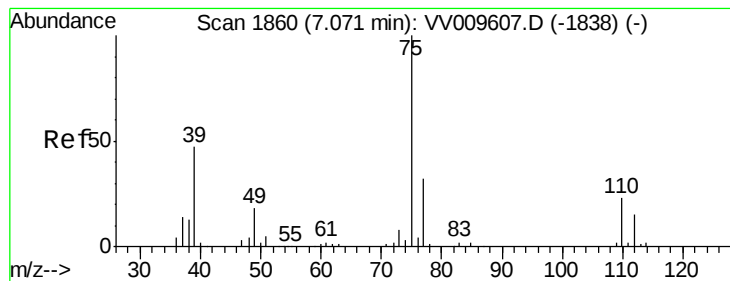
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.00 (62.70 to 63.70): VV009607.D (-1581) (-)



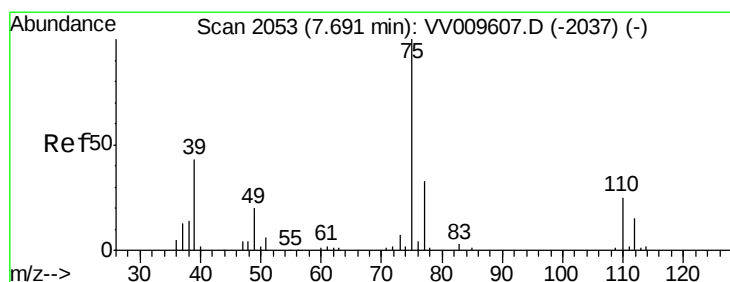
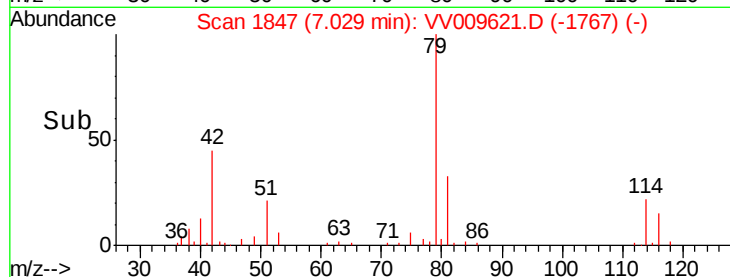
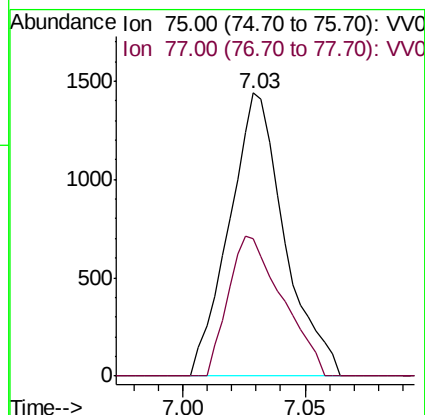
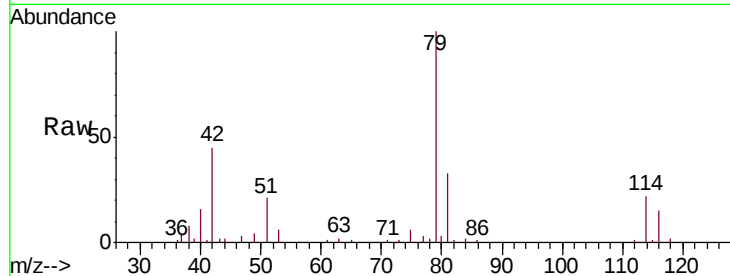


#39

cis-1,3-Dichloropropene  
Concen: 1.462 ug/L  
RT: 7.03 min Scan# 1847  
Delta R.T. -0.04 min  
Lab File: VV009621.D  
Acq: 12 Mar 2019 22:13

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0R4ME

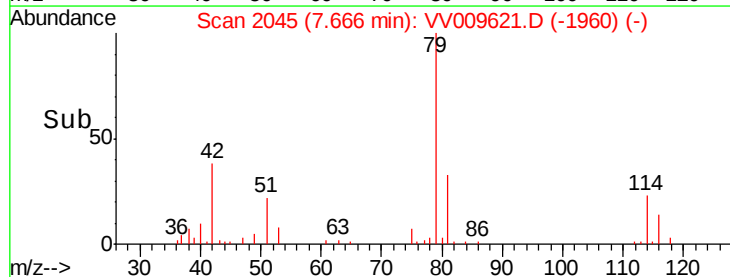
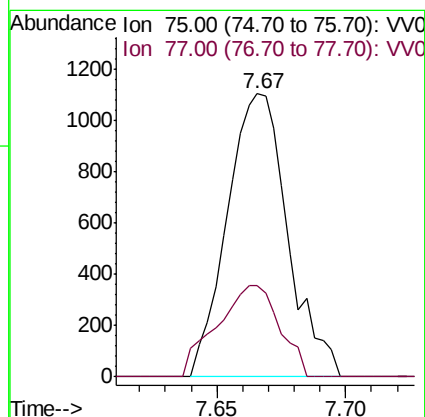
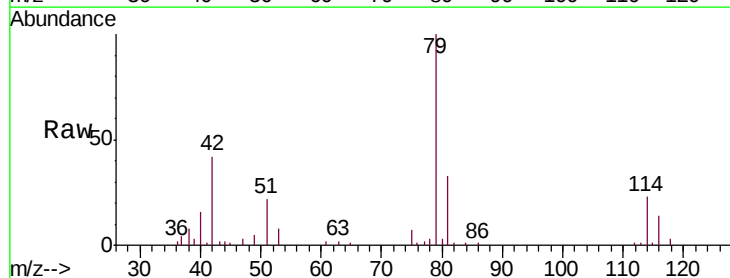
Tgt Ion: 75 Resp: 2265  
Ion Ratio Lower Upper  
75 100  
77 48.6 22.3 41.5#

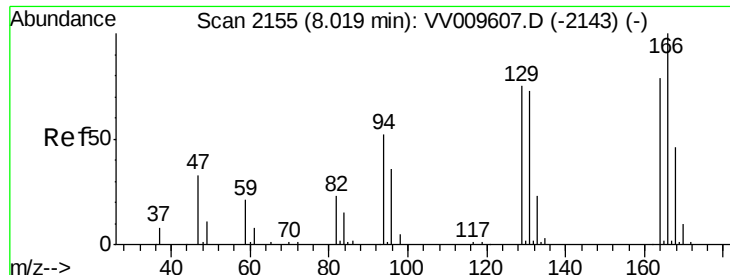


#44

trans-1,3-Dichloropropene  
Concen: 1.245 ug/L  
RT: 7.67 min Scan# 2045  
Delta R.T. -0.03 min  
Lab File: VV009621.D  
Acq: 12 Mar 2019 22:13

Tgt Ion: 75 Resp: 1812  
Ion Ratio Lower Upper  
75 100  
77 32.5 21.6 40.2

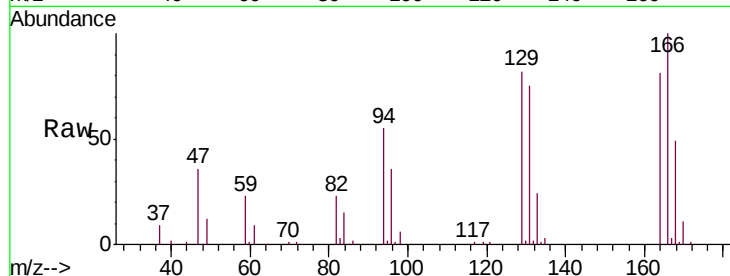




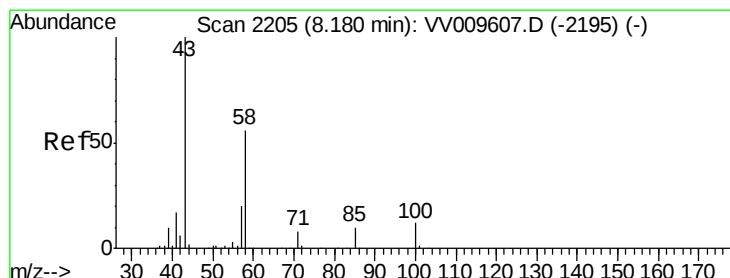
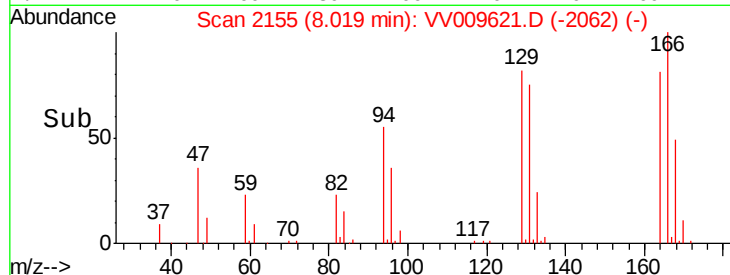
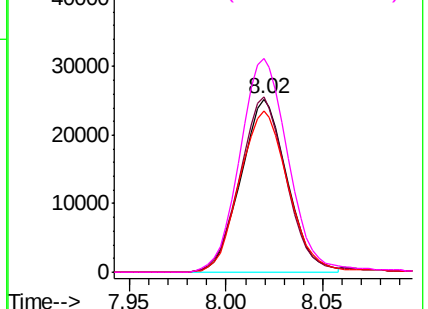
#46  
Tetrachloroethene  
Concen: 52.660 ug/L  
RT: 8.02 min Scan# 2155  
Delta R.T. 0.00 min  
Lab File: VV009621.D  
Acq: 12 Mar 2019 22:13

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0R4ME

Tgt Ion:164 Resp: 42143  
Ion Ratio Lower Upper  
164 100  
129 100.9 70.8 131.6  
131 92.9 68.3 126.9  
166 123.2 89.5 166.3

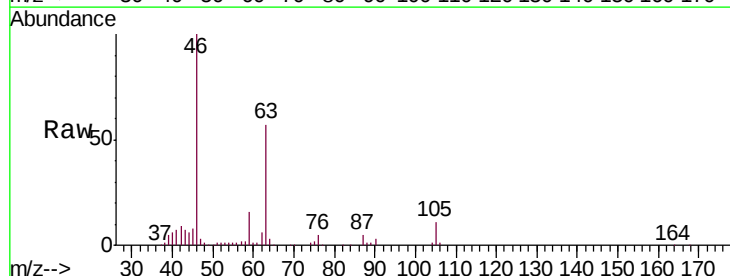


Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

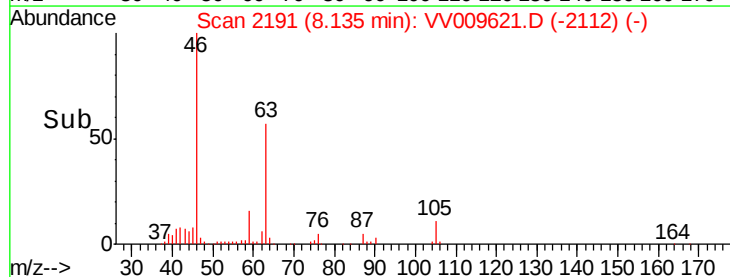
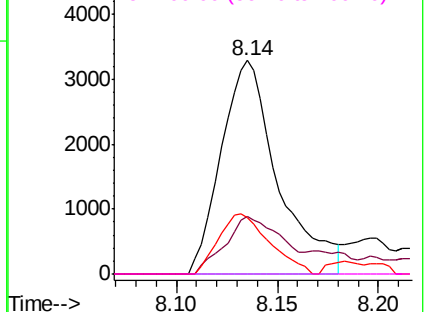


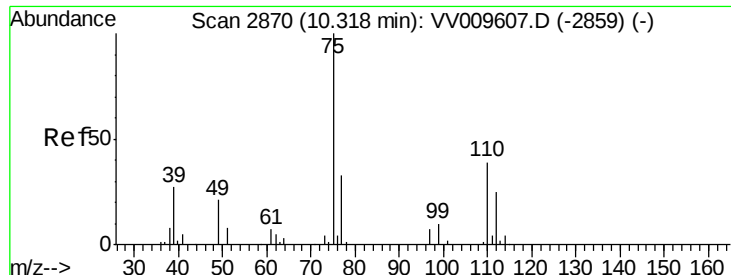
#48  
2-Hexanone  
Concen: 6.195 ug/L  
RT: 8.14 min Scan# 2191  
Delta R.T. -0.04 min  
Lab File: VV009621.D  
Acq: 12 Mar 2019 22:13

Tgt Ion: 43 Resp: 6450  
Ion Ratio Lower Upper  
43 100  
58 27.2 45.8 68.8#  
57 25.3 14.5 21.7#  
100 0.0 9.8 14.8#



Abundance Ion 43.00 (42.70 to 43.70): VV0  
Ion 58.00 (57.70 to 58.70): VV0  
Ion 57.00 (56.70 to 57.70): VV0  
Ion 100.00 (99.70 to 100.70): VV0





#59

1,2,3-Trichloropropane

Concen: 6.522 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009621.D

Acq: 12 Mar 2019 22:13

Instrument :

MSVOA\_V

ClientSampleId :

BF0R4ME

Tgt Ion: 75 Resp: 8597

Ion Ratio Lower Upper

75 100

77 39.3 26.6 40.0

