

Data File : VV008506.D  
Acq On : 01 Nov 2018 12:00  
Operator : SY/MD  
Sample : J5669-12  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VHBLK01

Quant Time: Nov 02 07:13:36 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM103118WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 02 07:10:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 209983   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 186280   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 80445    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 57677    | 43.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.40%  |
| 7) Chloroethane-d5             | 1.56    | 69    | 38581    | 51.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.80% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 74910    | 34.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.84%  |
| 21) 2-Butanone-d5              | 3.94    | 46    | 119983   | 92.83    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 92.83%  |
| 24) Chloroform-d               | 4.41    | 84    | 130660   | 44.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.18%  |
| 26) 1,2-Dichloroethane-d4      | 5.09    | 65    | 90872    | 46.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.82%  |
| 32) Benzene-d6                 | 5.10    | 84    | 269275   | 47.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.48%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 90545    | 47.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.42%  |
| 41) Toluene-d8                 | 7.36    | 98    | 241002   | 46.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.54%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 43714    | 45.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 90.82%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 88946    | 92.96    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 92.96%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 123138   | 46.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 93.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 80845    | 45.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.68%  |

#### Target Compounds

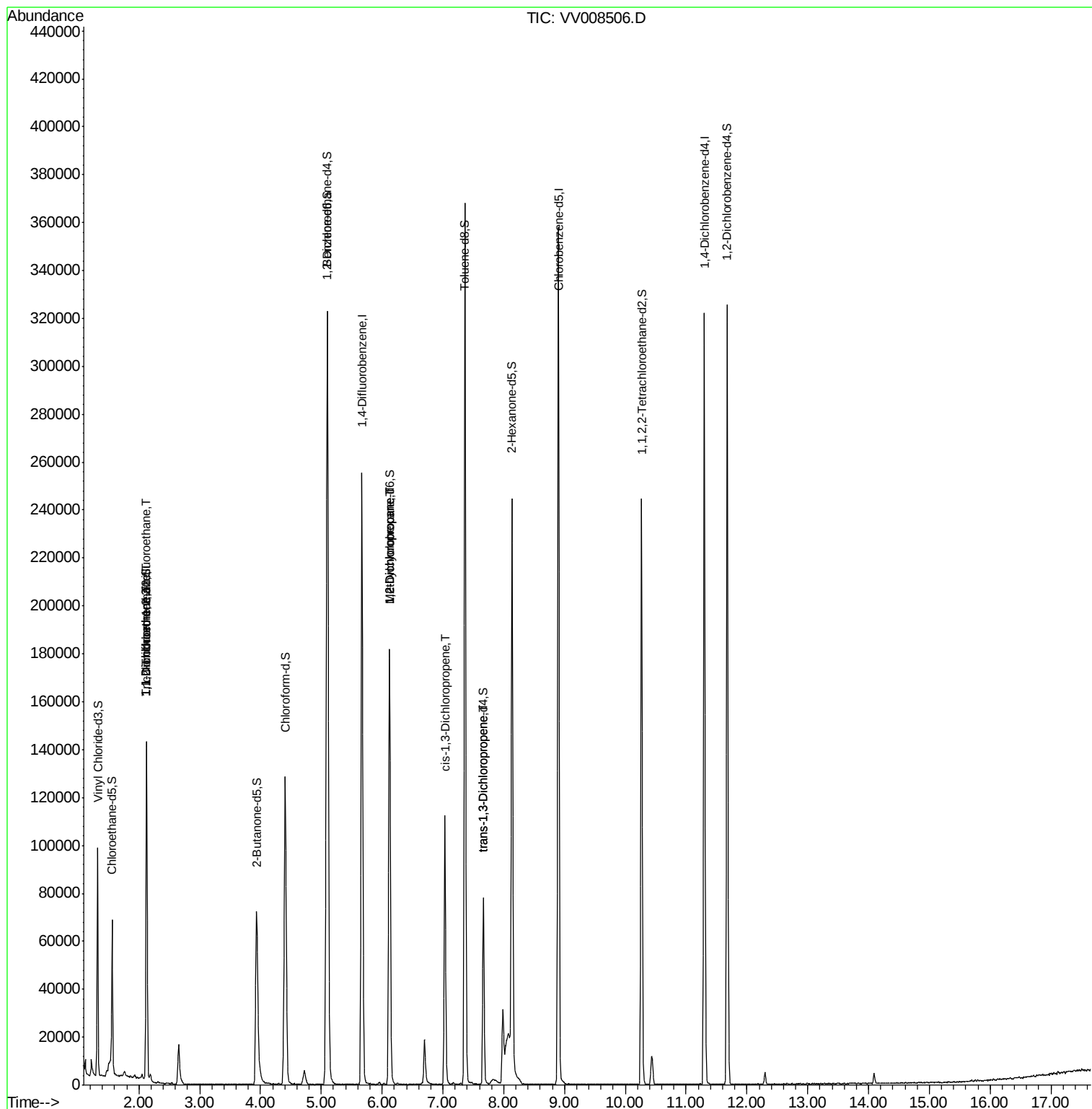
|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 9) Trichlorofluoromethane      | 2.13 | 101 | 706   | 0.401 ug/L # | 18     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 706   | 0.750 ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 666   | 0.767 ug/L # | 1      |
| 35) Methylcyclohexane          | 6.12 | 83  | 20581 | 8.332 ug/L # | 17     |
| 37) 1,2-Dichloropropane        | 6.12 | 63  | 9491  | 6.100 ug/L # | 89     |
| 39) cis-1,3-Dichloropropene    | 7.03 | 75  | 2810  | 1.154 ug/L # | 77     |
| 44) trans-1,3-Dichloropropene  | 7.67 | 75  | 1755  | 0.767 ug/L # | 75     |

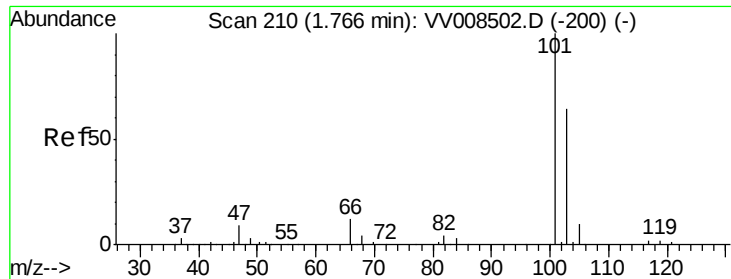
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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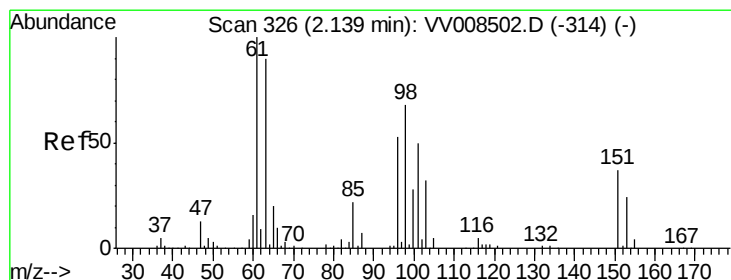
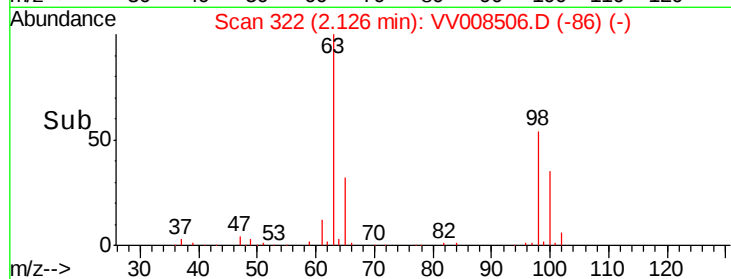
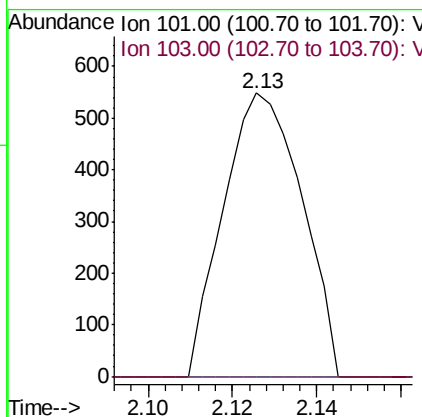
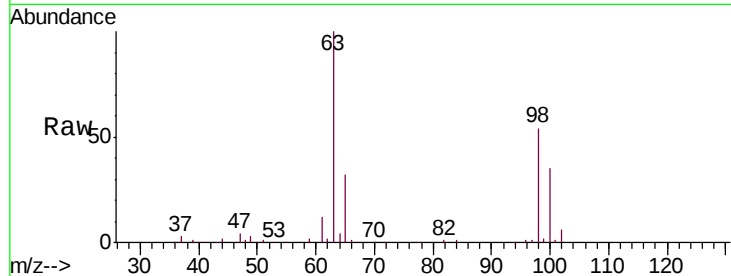


#9

Trichlorofluoromethane  
 Concen: 0.401 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. 0.36 min  
 Lab File: VV008506.D  
 Acq: 01 Nov 2018 12:00

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 VHBLK01

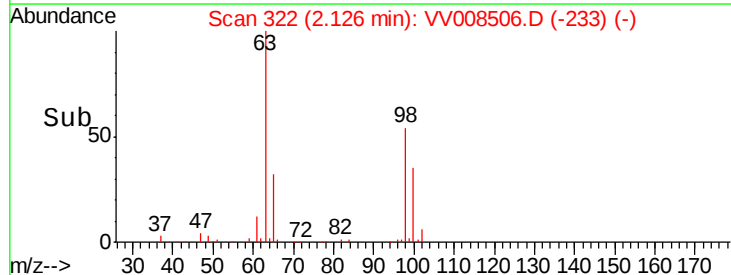
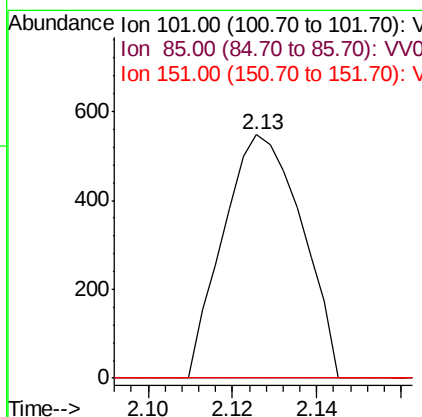
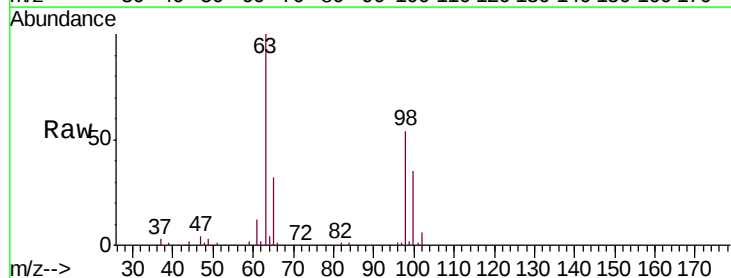
Tgt Ion:101 Resp: 706  
 Ion Ratio Lower Upper  
 101 100  
 103 0.0 51.0 76.6#

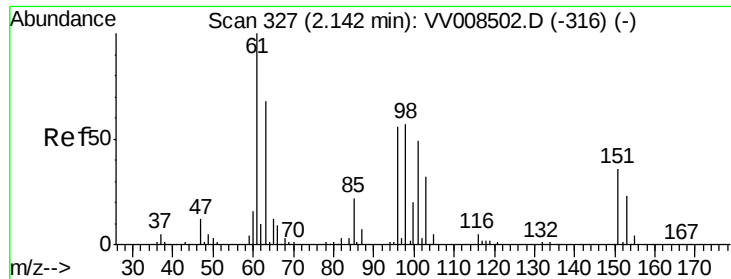


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.750 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. -0.01 min  
 Lab File: VV008506.D  
 Acq: 01 Nov 2018 12:00

Tgt Ion:101 Resp: 706  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 35.6 53.4#  
 151 0.0 58.1 87.1#

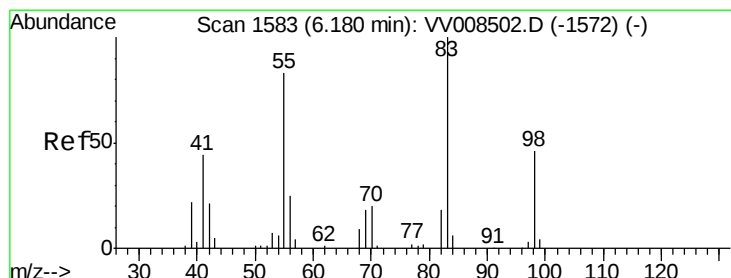
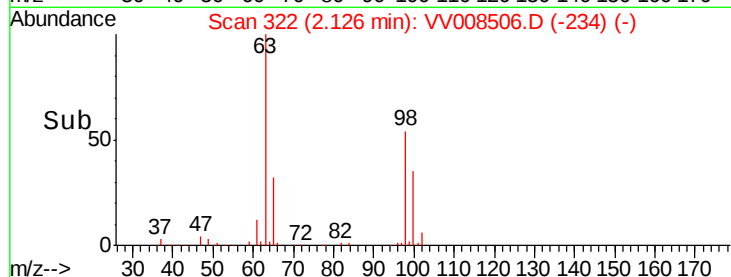
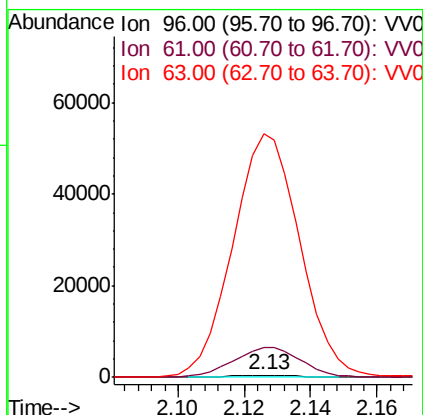
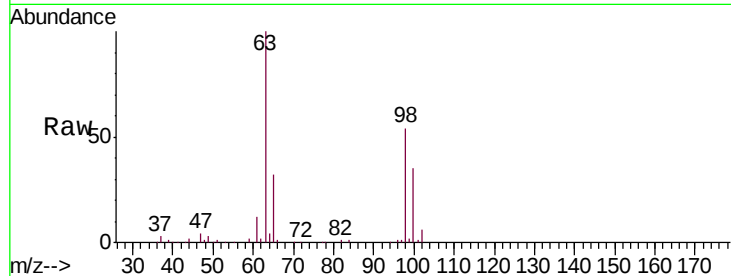




#12  
 1,1-Dichloroethene  
 Concen: 0.767 ug/L  
 RT: 2.13 min Scan# 322  
 Delta R.T. -0.02 min  
 Lab File: VV008506.D  
 Acq: 01 Nov 2018 12:00

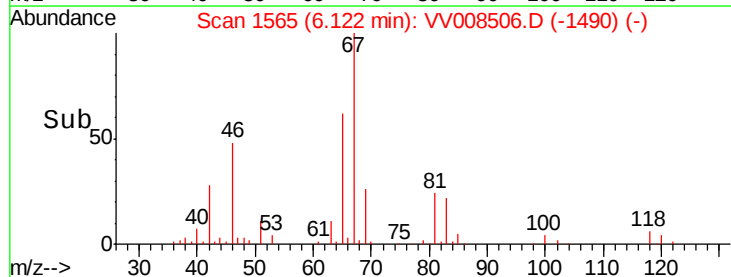
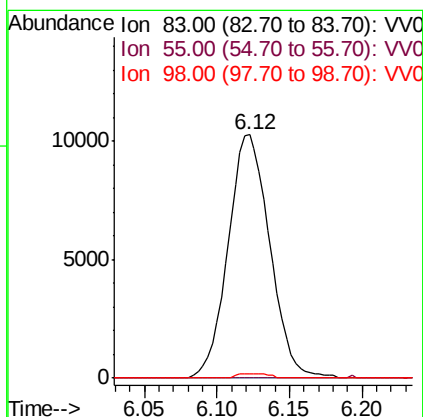
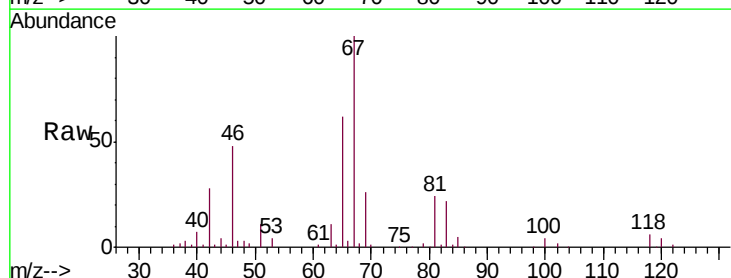
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VHBLK01

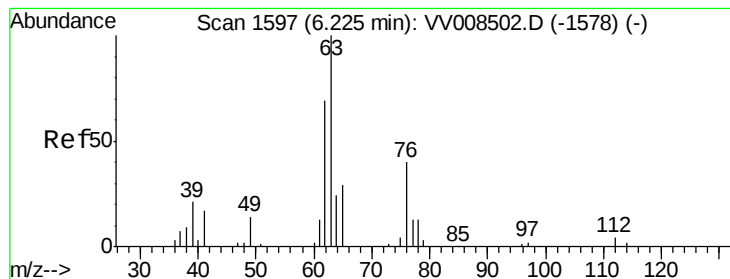
Tgt Ion: 96 Resp: 666  
 Ion Ratio Lower Upper  
 96 100  
 61 1467.6 130.3 242.1#  
 63 12027.1 84.4 156.8#



#35  
 Methylcyclohexane  
 Concen: 8.332 ug/L  
 RT: 6.12 min Scan# 1565  
 Delta R.T. -0.06 min  
 Lab File: VV008506.D  
 Acq: 01 Nov 2018 12:00

Tgt Ion: 83 Resp: 20581  
 Ion Ratio Lower Upper  
 83 100  
 55 0.0 65.0 97.4#  
 98 1.3 36.0 54.0#





#37

1,2-Dichloropropane

Concen: 6.100 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VV008506.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA\_V

ClientSampled :

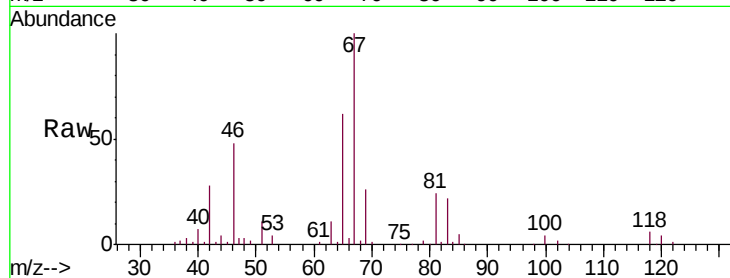
VHBLK01

Tgt Ion: 63 Resp: 9491

Ion Ratio Lower Upper

63 100

112 0.0 2.9 4.3#



Abundance Ion 63.00 (62.70 to 63.70): VV008506.D (-1504) (-)

Ion 112.00 (111.70 to 112.70): VV008506.D (-1504) (-)

6.12

5000

4000

3000

2000

1000

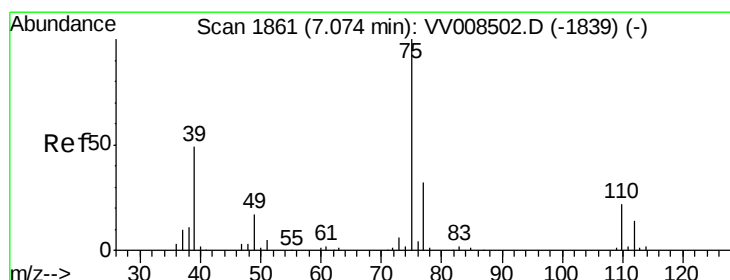
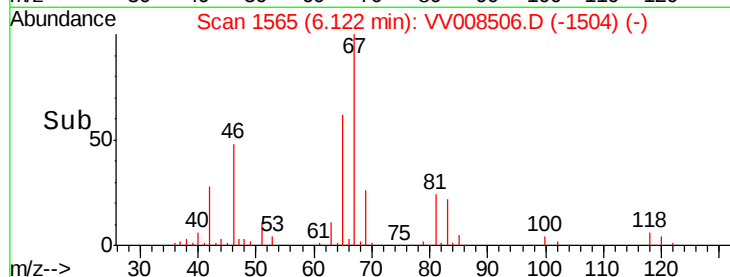
0

6.05

6.10

6.15

Time-->



#39

cis-1,3-Dichloropropene

Concen: 1.154 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV008506.D

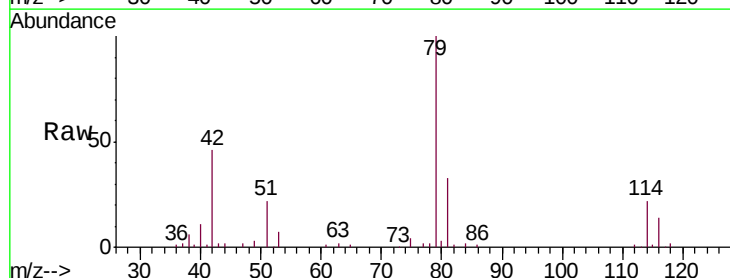
Acq: 01 Nov 2018 12:00

Tgt Ion: 75 Resp: 2810

Ion Ratio Lower Upper

75 100

77 45.2 22.6 42.0#



Abundance Ion 75.00 (74.70 to 75.70): VV008506.D (-1768) (-)

Ion 77.00 (76.70 to 77.70): VV008506.D (-1768) (-)

7.03

1500

1000

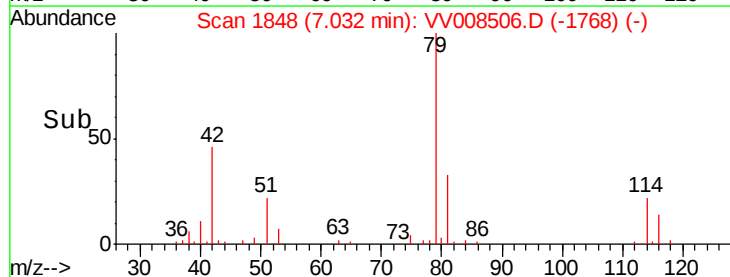
500

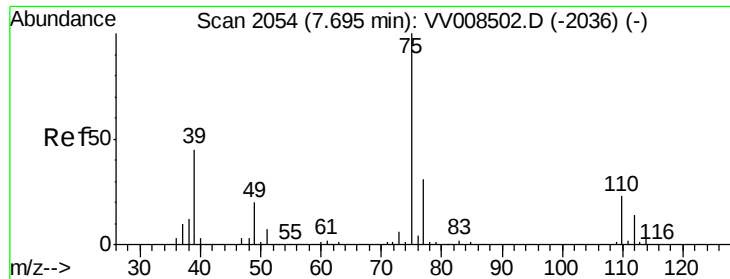
0

7.00

7.05

Time-->





#44

trans-1,3-Dichloropropene

Concen: 0.767 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV008506.D

Acq: 01 Nov 2018 12:00

Instrument :

MSVOA\_V

ClientSampleId :

VHBLK01

Tgt Ion: 75 Resp: 1755

Ion Ratio Lower Upper

75 100

77 44.6 21.8 40.4#

