

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101220\  
 Data File : VU040670.D  
 Acq On : 12 Oct 2020 19:38  
 Operator : SY/MD  
 Sample : L4345-20  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 YAQZ0

Quant Time: Oct 13 04:43:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 13 04:32:46 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 120184   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 120591   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 51903    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 40767    | 4.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 35287    | 4.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 65014    | 3.34     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 66.80%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 173722   | 54.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.02% |
| 24) Chloroform-d               | 5.08   | 84    | 85638    | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 54097    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.60% |
| 32) Benzene-d6                 | 5.75   | 84    | 156142   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 54556    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.00% |
| 41) Toluene-d8                 | 7.91   | 98    | 123470   | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 20769    | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 90.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 119063   | 50.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.02% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 46700    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 50150    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.20% |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.53  | 50   | 1129     | 0.111  | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58  | 101  | 590      | 0.059  | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.58  | 96   | 512      | 0.060  | ug/L # | 1      |
| 13) Acetone                    | 2.68  | 43   | 87981    | 35.617 | ug/L   | 98     |
| 25) Chloroform                 | 5.11  | 83   | 4979     | 0.263  | ug/L   | 96     |
| 27) 1,2-Dichloroethane         | 5.75  | 62   | 1038     | 0.077  | ug/L # | 77     |
| 33) Benzene                    | 5.79  | 78   | 3329     | 0.086  | ug/L   | 100    |
| 34) Trichloroethene            | 6.56  | 95   | 1450     | 0.144  | ug/L   | 92     |
| 35) Methylcyclohexane          | 6.70  | 83   | 13346    | 0.937  | ug/L # | 14     |
| 37) 1,2-Dichloropropane        | 6.70  | 63   | 6034     | 0.559  | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.58  | 75   | 1502     | 0.102  | ug/L # | 41     |
| 44) trans-1,3-Dichloropropene  | 8.19  | 75   | 974      | 0.072  | ug/L # | 72     |
| 47) Tetrachloroethene          | 8.56  | 164  | 1527     | 0.213  | ug/L   | 87     |
| 48) 2-Hexanone                 | 8.64  | 43   | 19802    | 3.090  | ug/L # | 75     |
| 49) Dibromochloromethane       | 8.56  | 129  | 1455     | 0.156  | ug/L # | 9      |
| 59) 1,2,3-Trichloropropane     | 11.81 | 75   | 6510     | 0.821  | ug/L # | 86     |

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Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
YQZ0

Quant Time: Oct 13 04:43:59 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100820WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Oct 13 04:32:46 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

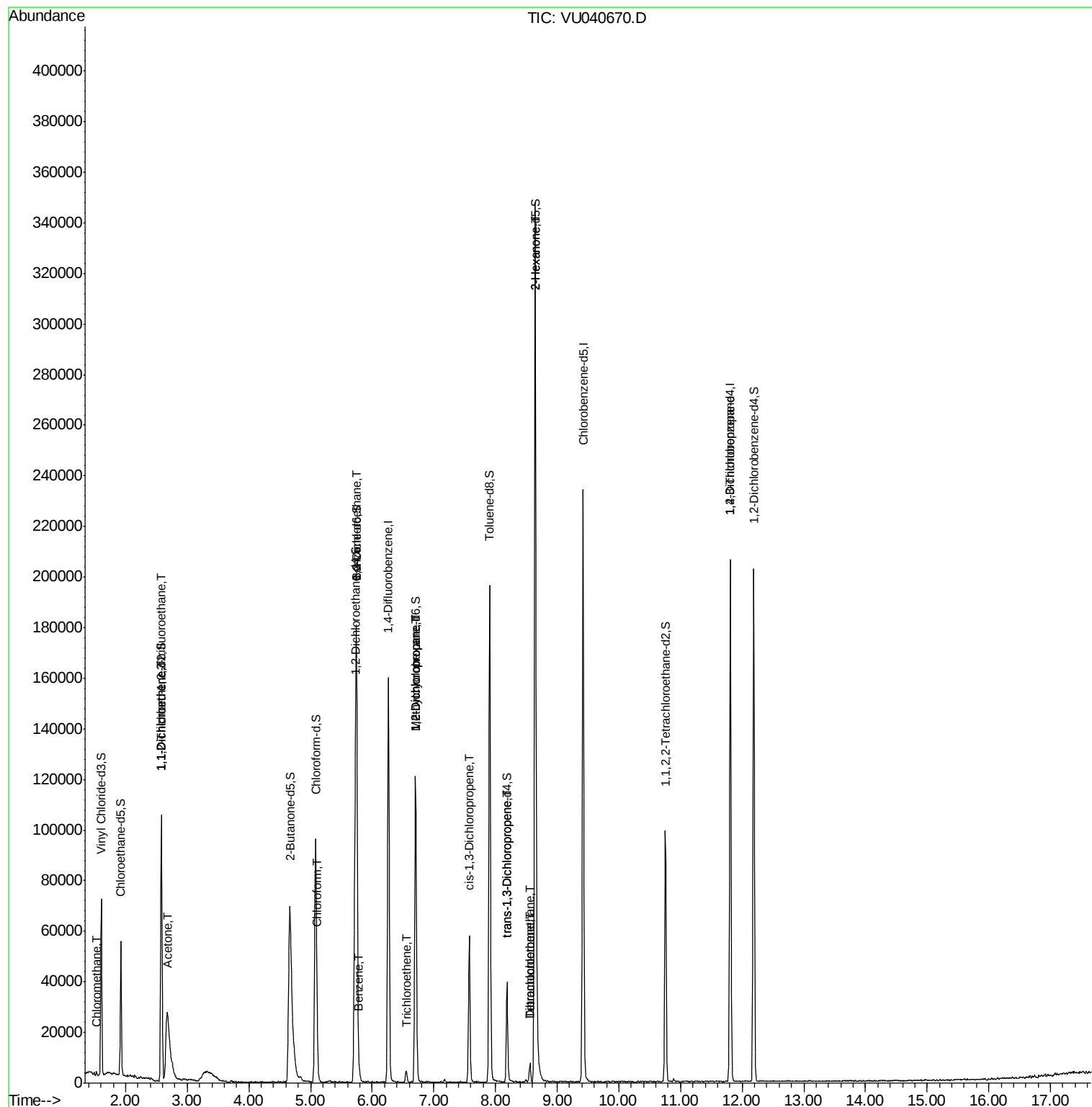
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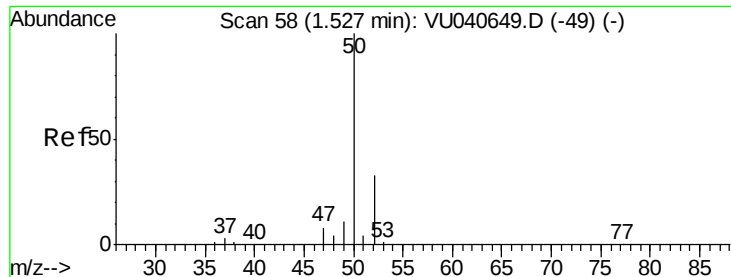
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.111 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

Instrument :

MSVOA\_U

ClientSampleId :

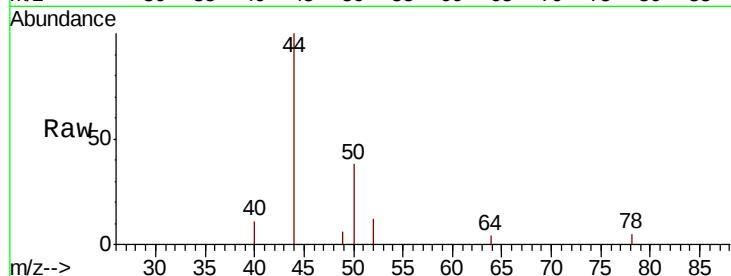
YQZ0

Tot Ion: 50 Resp: 1129

Ion Ratio Lower Upper

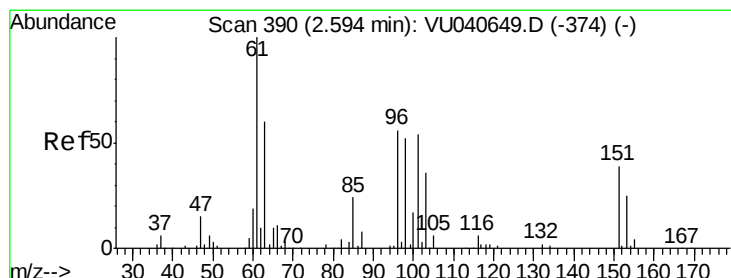
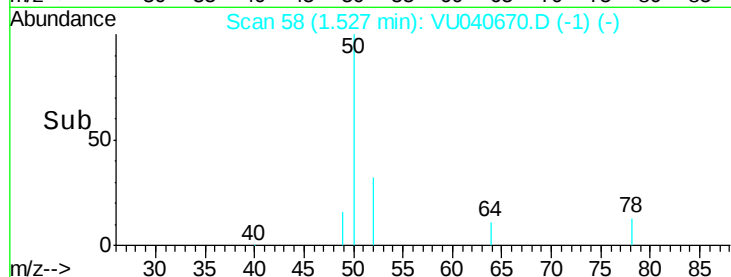
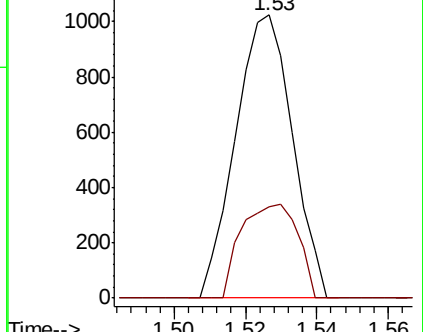
50 100

52 32.4 21.9 40.7



Abundance Ion 50.05 (49.75 to 50.75): VU040670.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU040670.D (-1) (-)



#10

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

Concen: 0.059 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

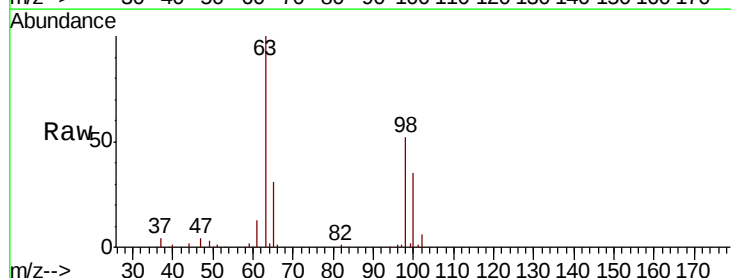
Tgt Ion: 101 Resp: 590

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

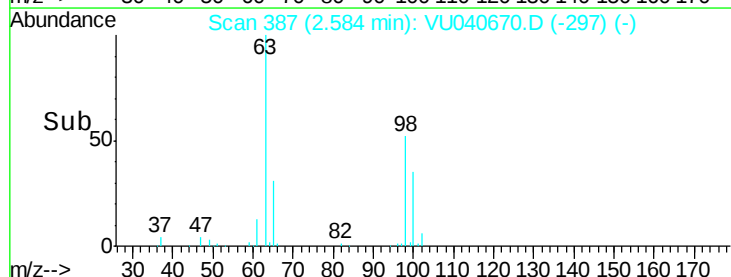
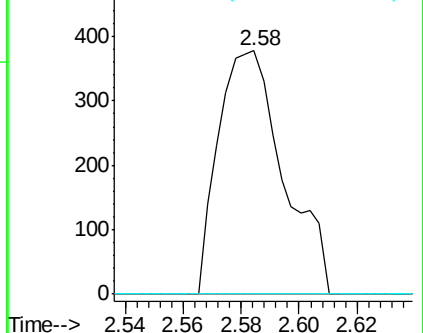
151 0.0 58.0 87.0#

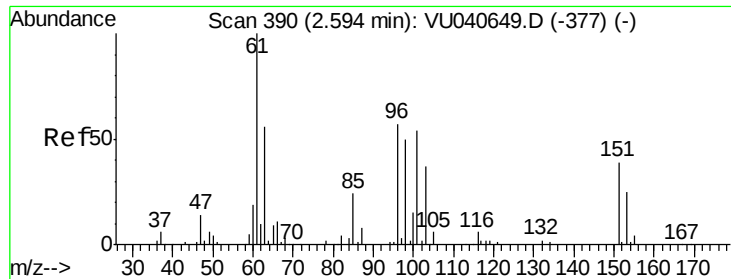


Abundance Ion 101.00 (100.70 to 101.70): VU040670.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VU040670.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VU040670.D (-297) (-)





#12

1,1-Dichloroethene

Concen: 0.060 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

Instrument :

MSVOA\_U

ClientSampled :

YQZ0

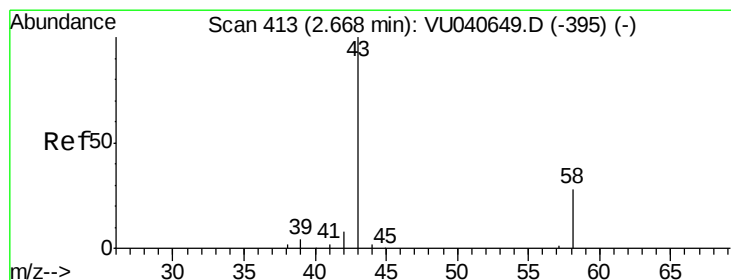
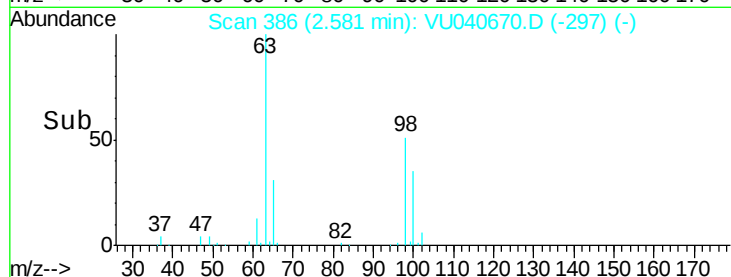
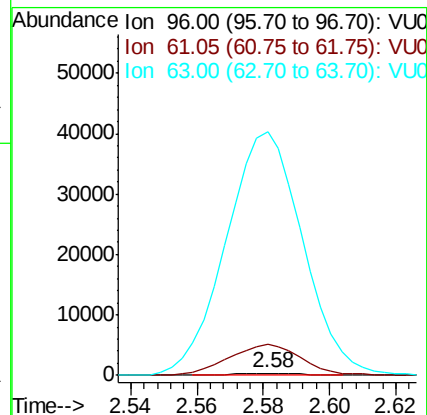
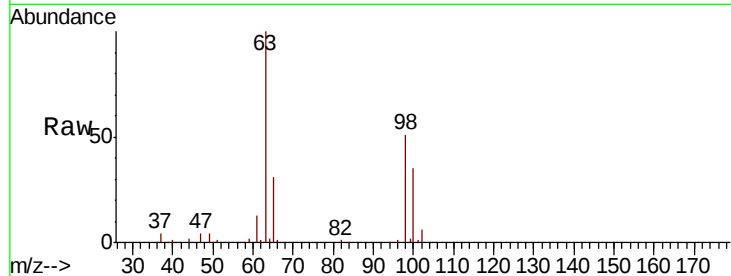
Tot Ion: 96 Resp: 512

Ion Ratio Lower Upper

96 100

61 1338.6 128.8 239.2#

63 10576.4 84.6 157.2#



#13

Acetone

Concen: 35.617 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.01 min

Lab File: VU040670.D

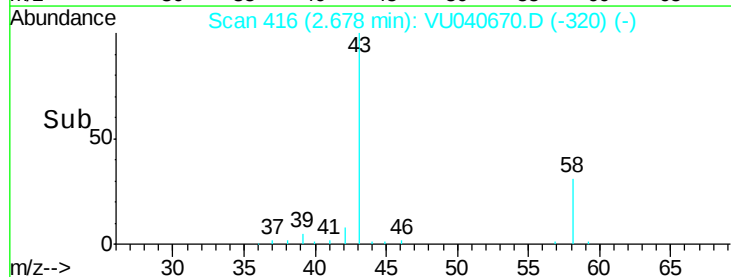
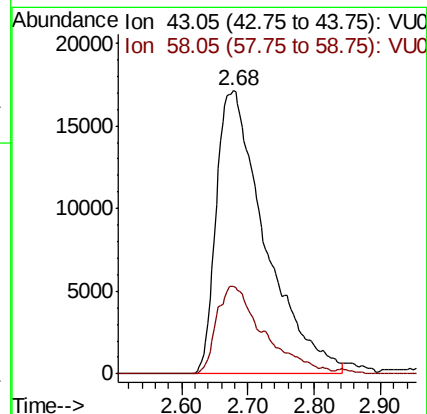
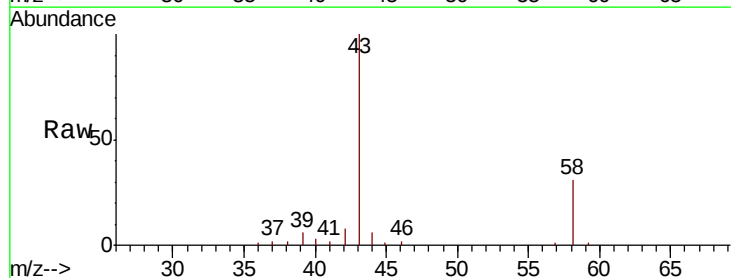
Acq: 12 Oct 2020 19:38

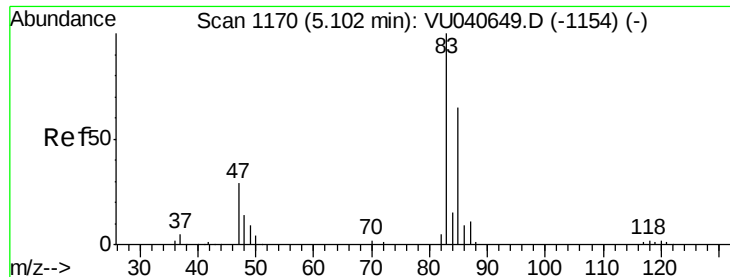
Tgt Ion: 43 Resp: 87981

Ion Ratio Lower Upper

43 100

58 29.4 0.0 60.6

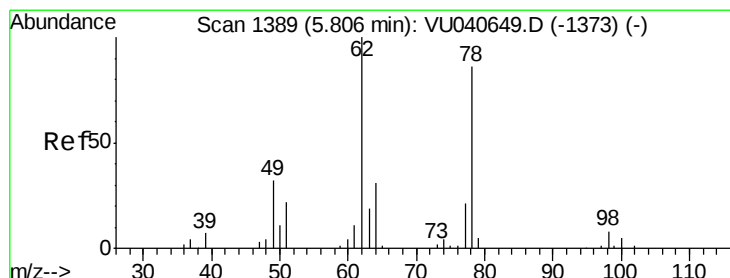
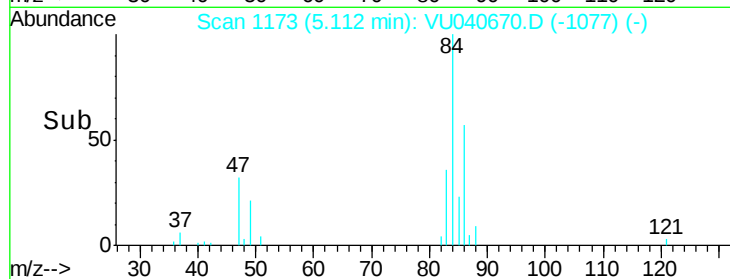
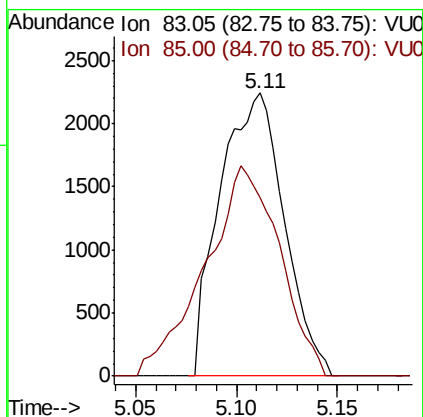
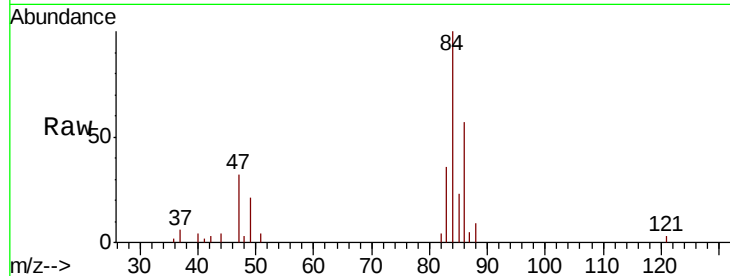




#25  
Chloroform  
Concen: 0.263 ug/L  
RT: 5.11 min Scan# 1173  
Delta R.T. 0.01 min  
Lab File: VU040670.D  
Acq: 12 Oct 2020 19:38

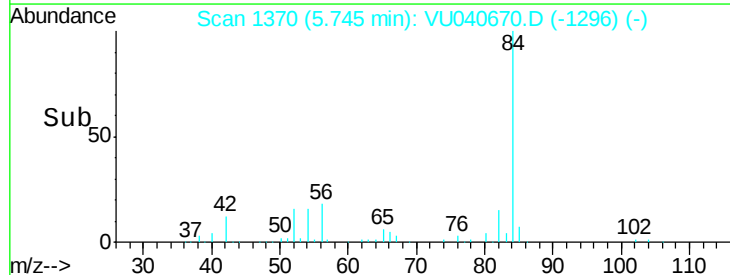
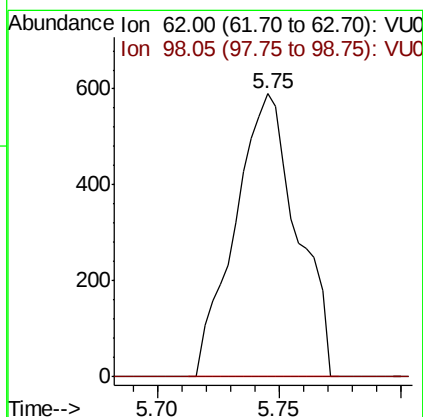
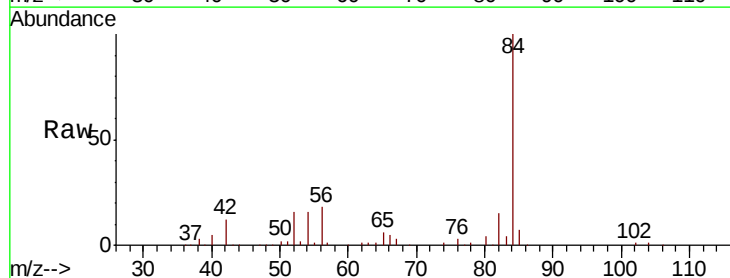
Instrument :  
MSVOA\_U  
ClientSampleId :  
YQZ0

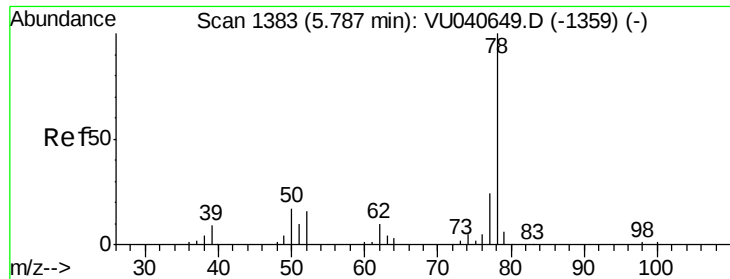
Tot Ion: 83 Resp: 4979  
Ion Ratio Lower Upper  
83 100  
85 63.2 46.5 86.5



#27  
1,2-Dichloroethane  
Concen: 0.077 ug/L  
RT: 5.75 min Scan# 1370  
Delta R.T. -0.06 min  
Lab File: VU040670.D  
Acq: 12 Oct 2020 19:38

Tgt Ion: 62 Resp: 1038  
Ion Ratio Lower Upper  
62 100  
98 0.0 6.6 10.0#





#33

Benzene

Concen: 0.086 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

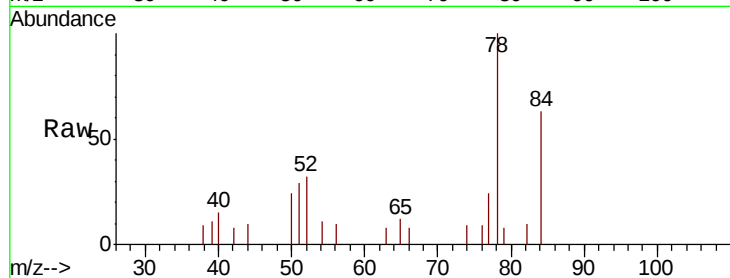
Instrument :

MSVOA\_U

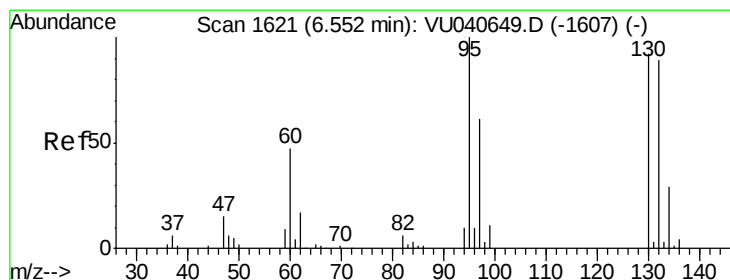
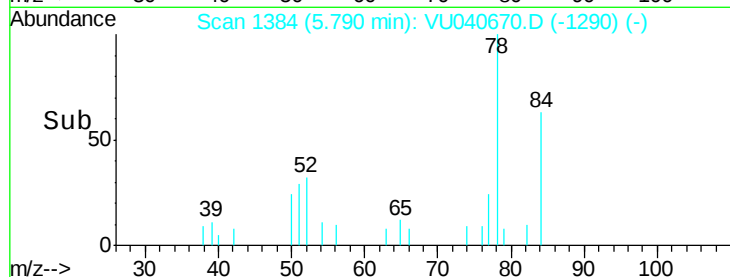
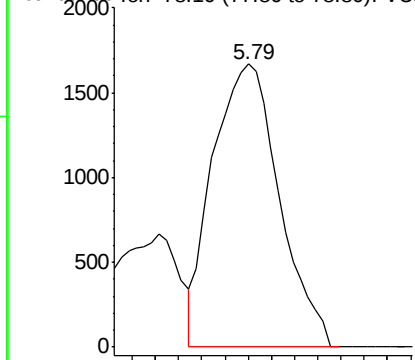
ClientSampleId :

YQZ0

Tgt Ion: 78 Resp: 3329



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.144 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

Tgt Ion: 95 Resp: 1450

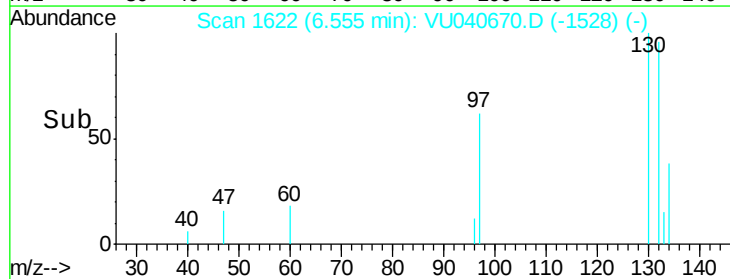
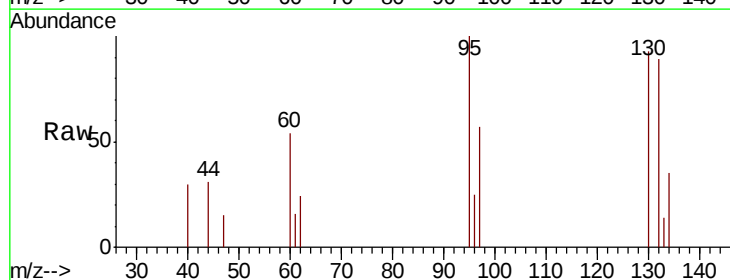
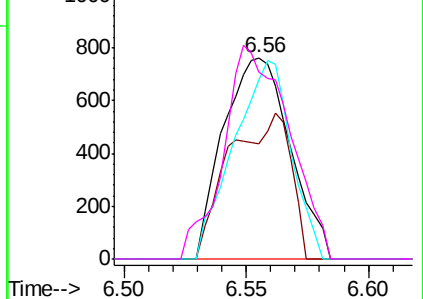
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 57.4  | 45.5  | 84.5  |
| 132 | 89.5  | 67.5  | 125.4 |
| 130 | 92.8  | 69.9  | 129.9 |

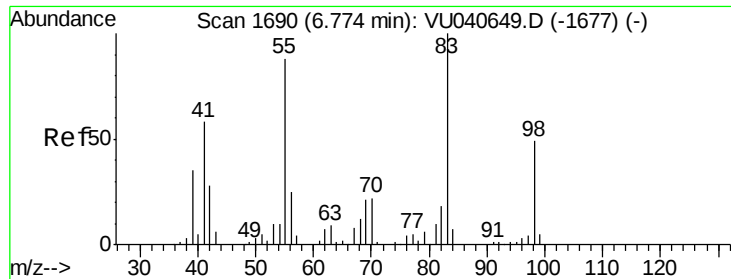
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

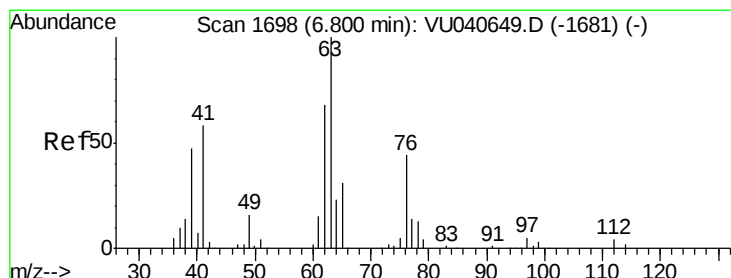
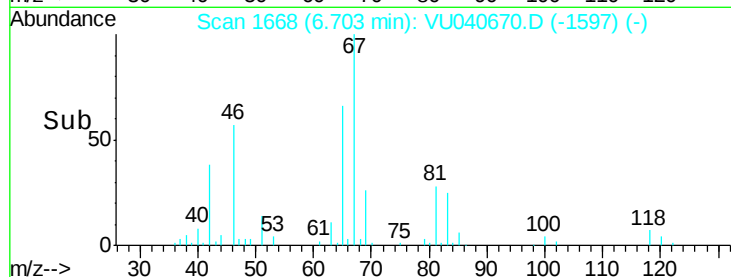
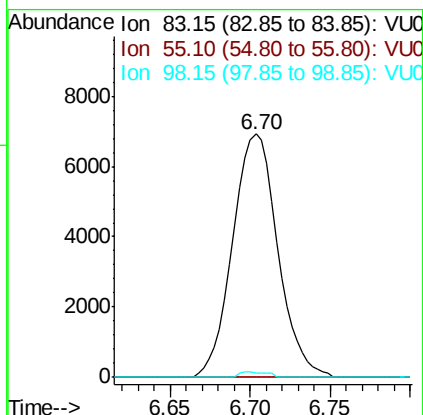
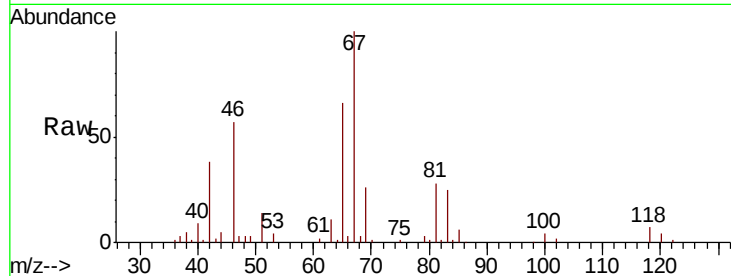




#35  
Methvlcvclohexane  
Concen: 0.937 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU040670.D  
Acq: 12 Oct 2020 19:38

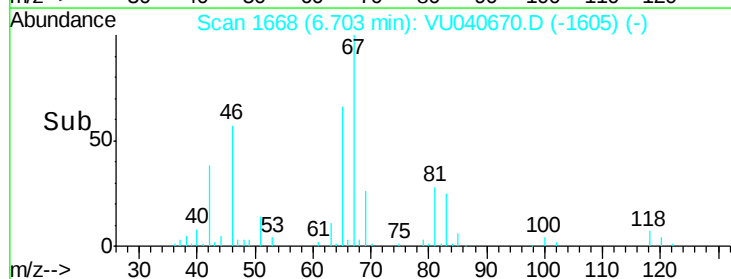
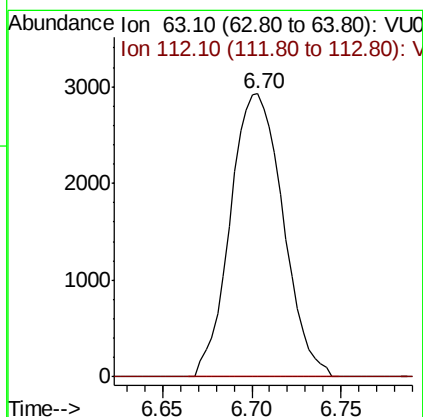
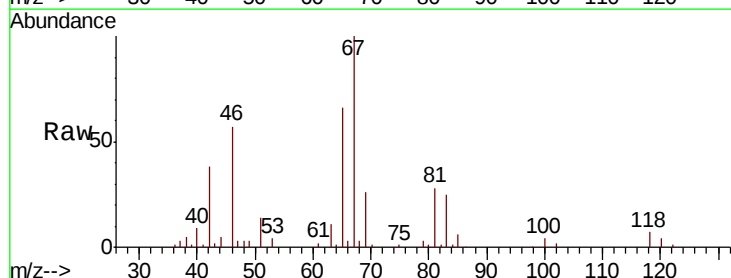
Instrument :  
MSVOA\_U  
ClientSampleId :  
YQZ0

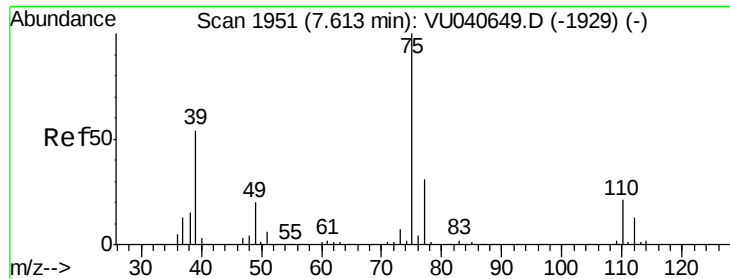
Tot Ion: 83 Resp: 13346  
Ion Ratio Lower Upper  
83 100  
55 0.0 70.7 106.1#  
98 1.3 38.4 57.6#



#37  
1,2-Dichloropropane  
Concen: 0.559 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU040670.D  
Acq: 12 Oct 2020 19:38

Tgt Ion: 63 Resp: 6034  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.5 5.3#





#39

cis-1,3-Dichloropropene

Concen: 0.102 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

Instrument :

MSVOA\_U

ClientSampleId :

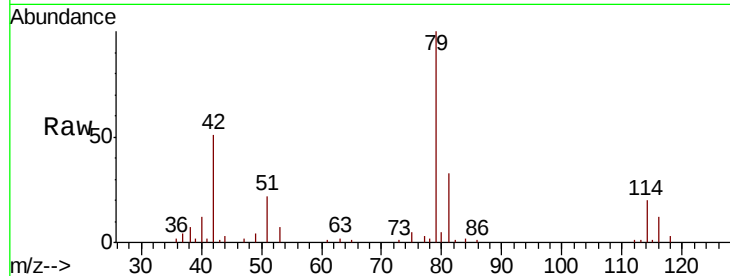
YAZO

Tot Ion: 75 Resp: 1502

Ion Ratio Lower Upper

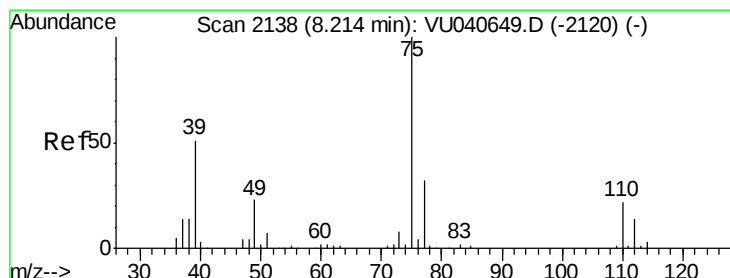
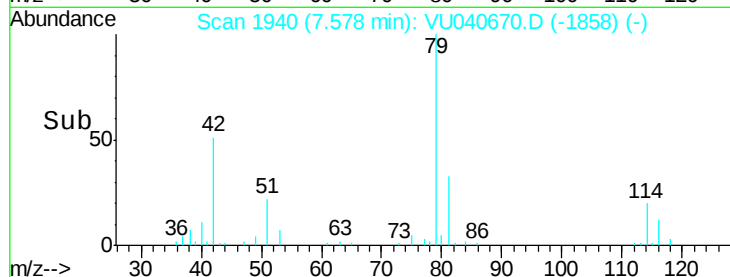
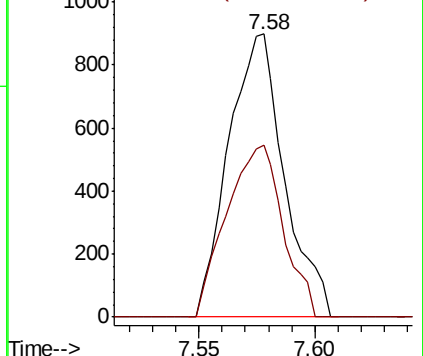
75 100

77 60.8 20.5 38.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.072 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040670.D

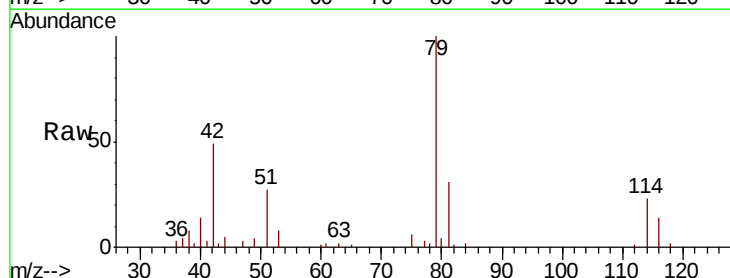
Acq: 12 Oct 2020 19:38

Tgt Ion: 75 Resp: 974

Ion Ratio Lower Upper

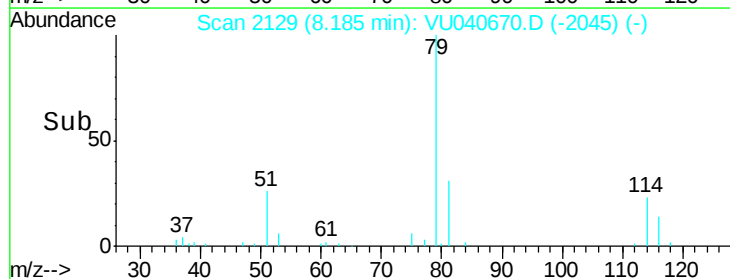
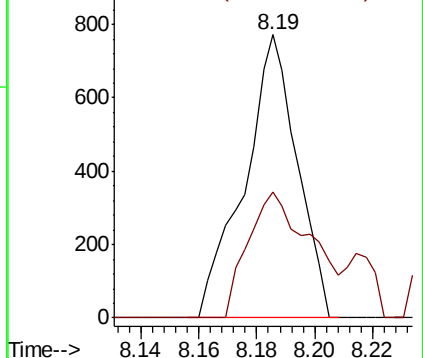
75 100

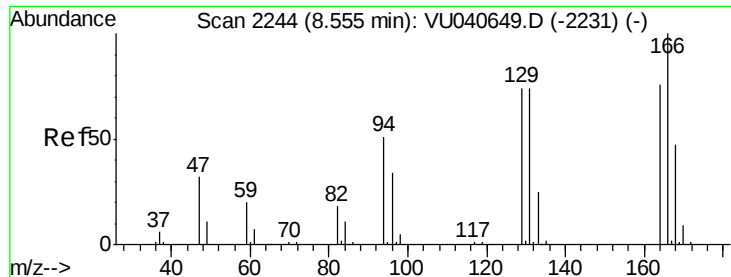
77 44.4 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

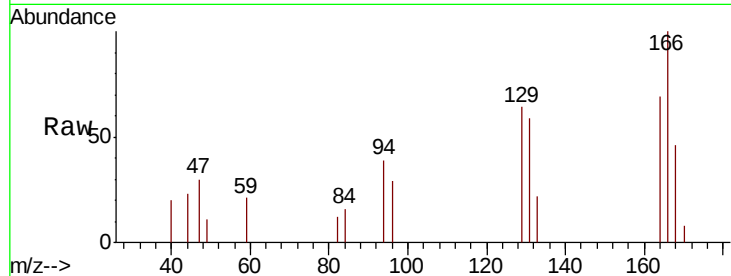




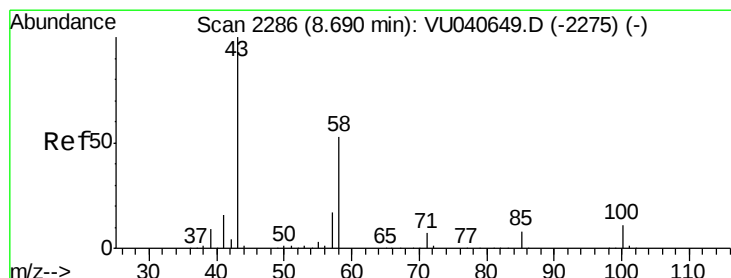
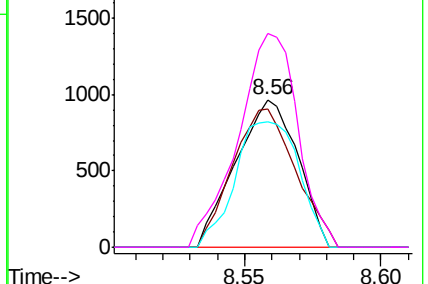
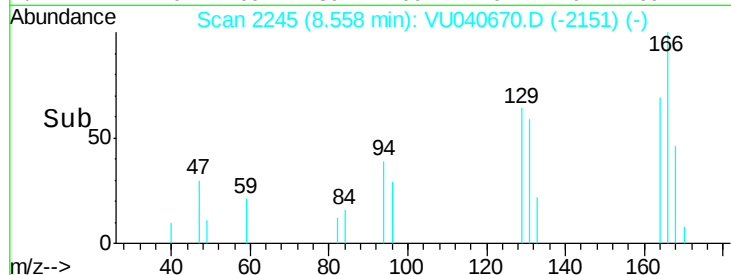
#47  
Tetrachloroethene  
Concen: 0.213 ug/L  
RT: 8.56 min Scan# 2245  
Delta R.T. 0.00 min  
Lab File: VU040670.D  
Acq: 12 Oct 2020 19:38

Instrument :  
MSVOA\_U  
ClientSampleId :  
YQZ0

Tot Ion:164 Resp: 1527  
Ion Ratio Lower Upper  
164 100  
129 93.2 68.8 127.8  
131 85.1 66.7 123.9  
166 144.5 83.9 155.7

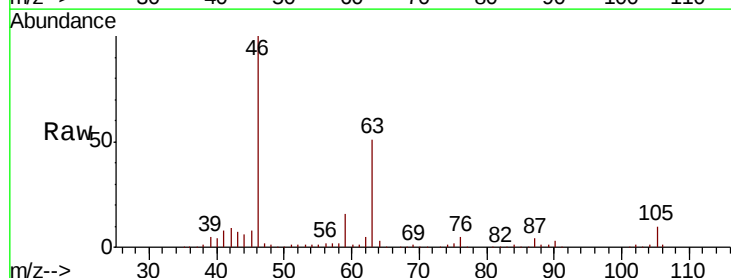


Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

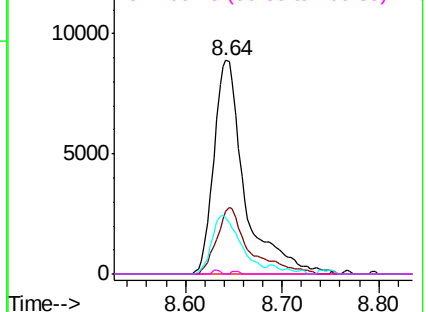
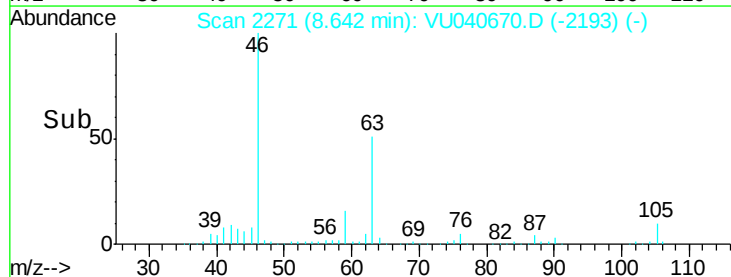


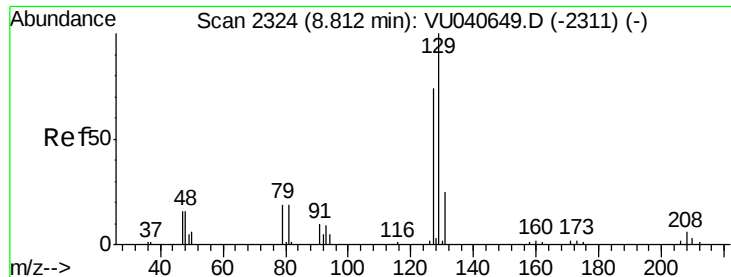
#48  
2-Hexanone  
Concen: 3.090 ug/L  
RT: 8.64 min Scan# 2271  
Delta R.T. -0.05 min  
Lab File: VU040670.D  
Acq: 12 Oct 2020 19:38

Tgt Ion: 43 Resp: 19802  
Ion Ratio Lower Upper  
43 100  
58 32.7 41.0 61.6#  
57 25.4 14.4 21.6#  
100 0.4 8.6 13.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0  
Ion 57.20 (56.90 to 57.90): VU0  
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.156 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU040670.D

Acq: 12 Oct 2020 19:38

Instrument :

MSVOA\_U

ClientSampled :

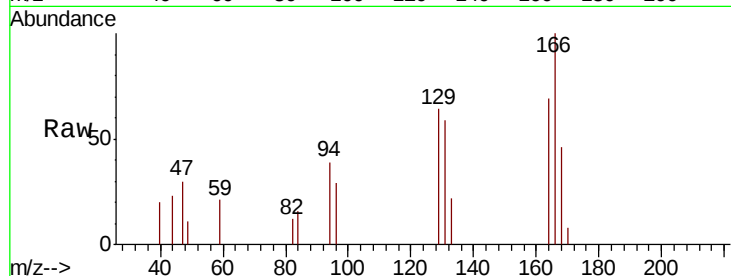
YQZ0

Tot Ion:129 Resp: 1455

Ion Ratio Lower Upper

129 100

127 0.0 55.8 103.6#



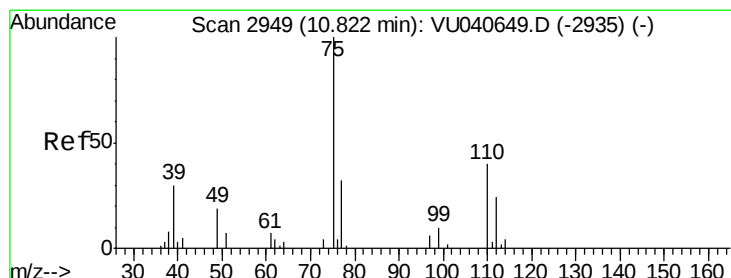
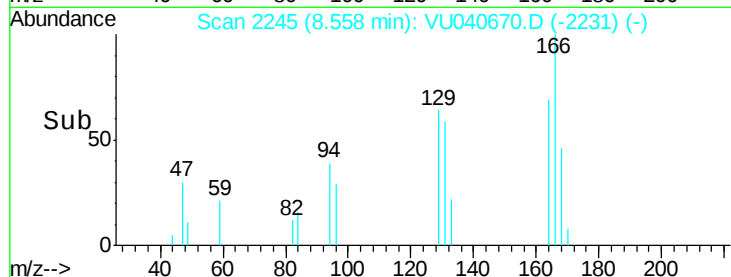
Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

8.55 8.60

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.821 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040670.D

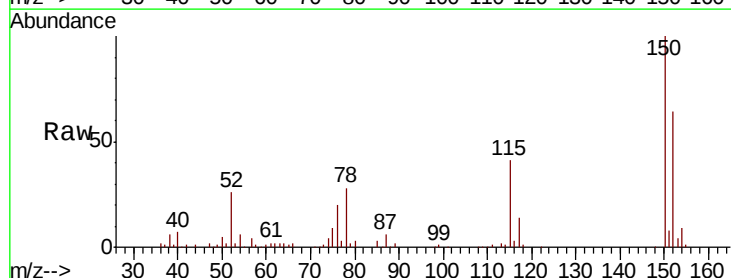
Acq: 12 Oct 2020 19:38

Tgt Ion: 75 Resp: 6510

Ion Ratio Lower Upper

75 100

77 41.0 26.4 39.6#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

11.75 11.85

Time-->

