

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121420\  
 Data File : VU041617.D  
 Acq On : 14 Dec 2020 17:50  
 Operator : SY/MD  
 Sample : L5027-15  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Dec 15 00:49:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 15 00:46:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 127263   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 115617   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 52745    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 30560    | 3.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 61.40%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 30243    | 3.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 78.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 53162    | 2.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 58.00%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 147383   | 51.57    | ug/L | 0.02    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 103.14% |
| 24) Chloroform-d               | 5.08   | 84    | 77779    | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 46363    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.00%  |
| 32) Benzene-d6                 | 5.74   | 84    | 154817   | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 50067    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.40%  |
| 41) Toluene-d8                 | 7.91   | 98    | 132098   | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.40%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 20613    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.40%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 114569   | 44.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 89.80%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 49181    | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 50007    | 5.33     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.60% |

## Target Compounds

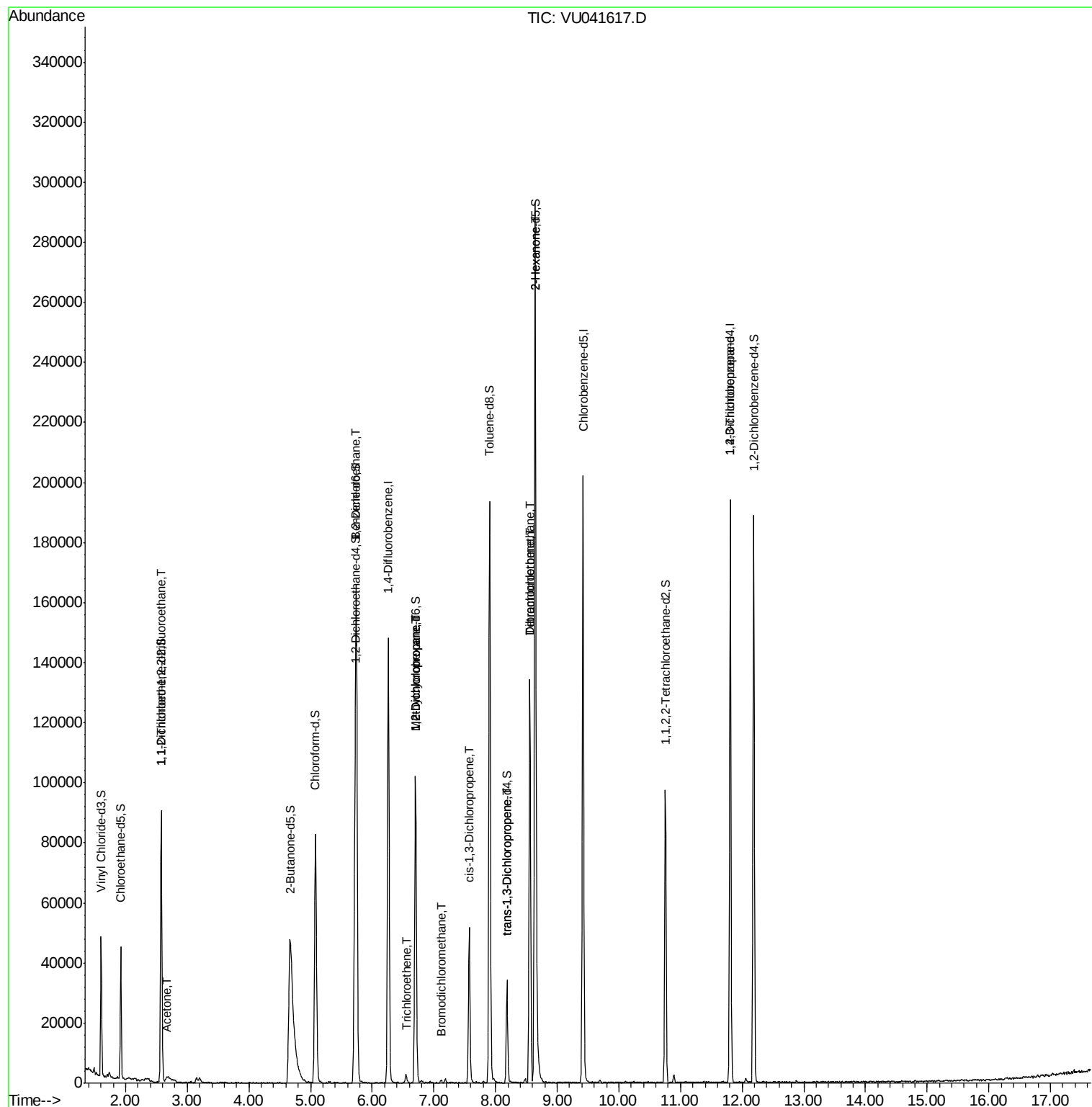
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.57  | 101  | 542      | 0.062 | ug/L # | 22     |
| 13) Acetone                    | 2.67  | 43   | 1711     | 0.941 | ug/L # | 38     |
| 27) 1,2-Dichloroethane         | 5.74  | 62   | 918      | 0.081 | ug/L # | 73     |
| 34) Trichloroethene            | 6.56  | 95   | 787      | 0.085 | ug/L   | 93     |
| 35) Methylcyclohexane          | 6.70  | 83   | 11538    | 0.768 | ug/L # | 20     |
| 37) 1,2-Dichloropropane        | 6.70  | 63   | 5067     | 0.536 | ug/L # | 88     |
| 38) Bromodichloromethane       | 7.11  | 83   | 820      | 0.070 | ug/L # | 95     |
| 39) cis-1,3-Dichloropropene    | 7.57  | 75   | 1025     | 0.073 | ug/L # | 49     |
| 44) trans-1,3-Dichloropropene  | 8.19  | 75   | 728      | 0.058 | ug/L # | 73     |
| 47) Tetrachloroethene          | 8.56  | 164  | 30049    | 4.620 | ug/L   | 98     |
| 48) 2-Hexanone                 | 8.64  | 43   | 12250    | 2.501 | ug/L # | 65     |
| 49) Dibromochloromethane       | 8.56  | 129  | 29838    | 3.714 | ug/L # | 10     |
| 59) 1,2,3-Trichloropropane     | 11.81 | 75   | 6020     | 0.848 | ug/L   | 99     |

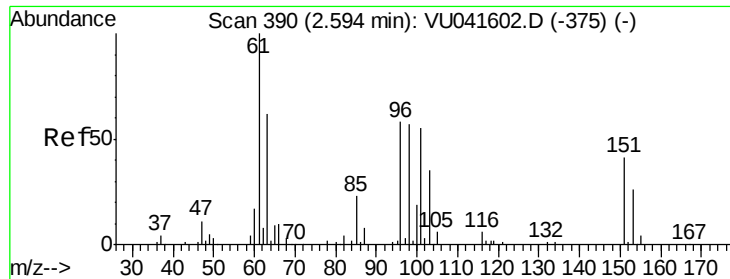
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU121420\  
Data File : VU041617.D  
Acq On : 14 Dec 2020 17:50  
Operator : SY/MD  
Sample : L5027-15  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Dec 15 00:49:45 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Dec 15 00:46:25 2020  
Response via : Initial Calibration





#10

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

Concen: 0.062 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041617.D

Acq: 14 Dec 2020 17:50

Instrument :

MSVOA\_U

ClientSampleId :

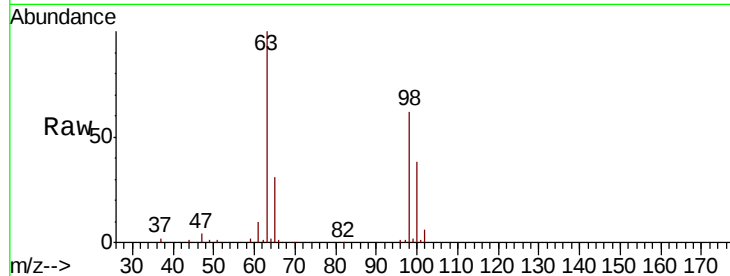
Tot Ion:101 Resp: 542

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

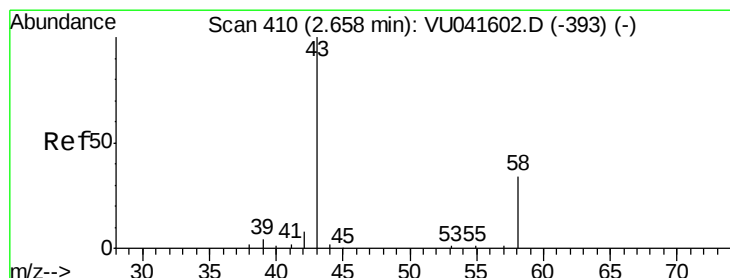
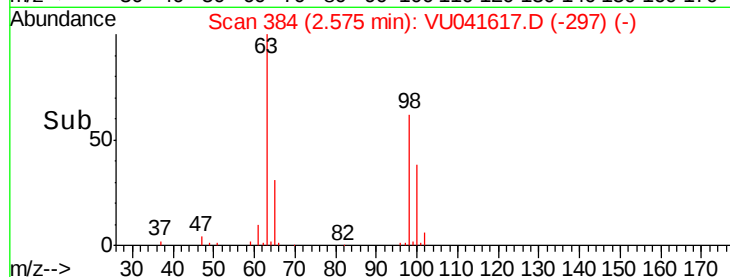
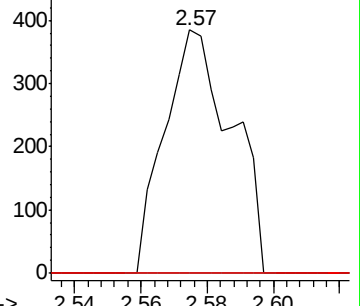
151 0.0 56.2 84.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 0.941 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.01 min

Lab File: VU041617.D

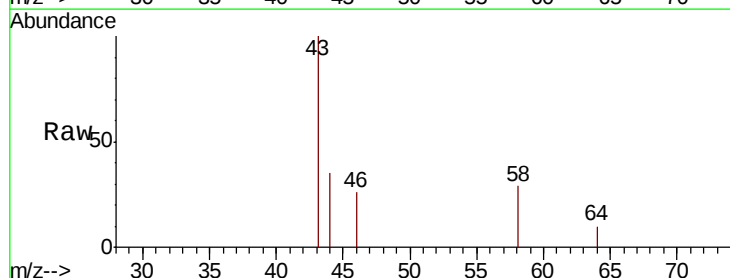
Acq: 14 Dec 2020 17:50

Tgt Ion: 43 Resp: 1711

Ion Ratio Lower Upper

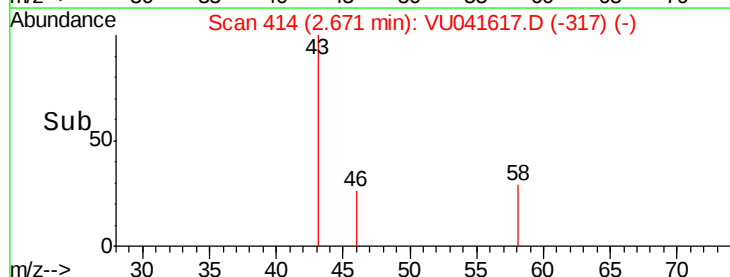
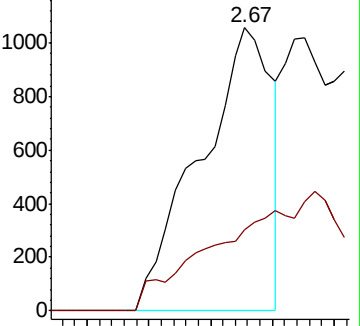
43 100

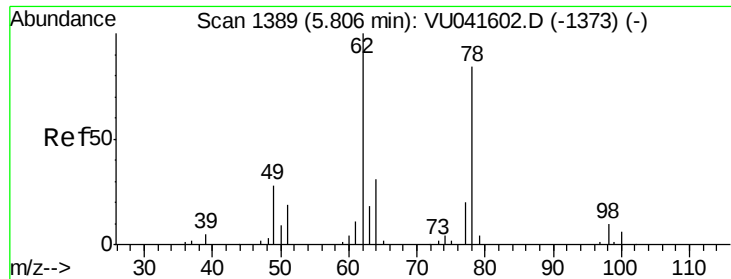
58 0.0 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#27

1,2-Dichloroethane

Concen: 0.081 ug/L

RT: 5.74 min Scan# 1368

Delta R.T. -0.07 min

Lab File: VU041617.D

Acq: 14 Dec 2020 17:50

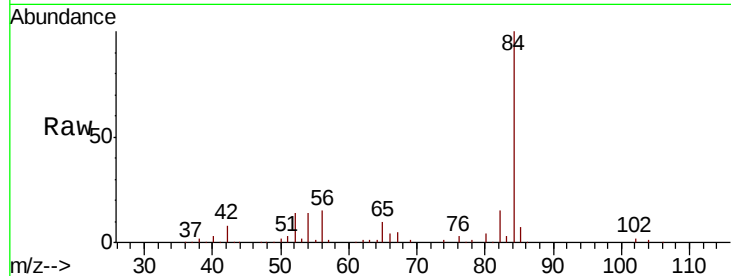
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 62 Resp: 918

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU041617.D (-1368) (-)

Ion 98.05 (97.75 to 98.75): VU041617.D (-1368) (-)

5.74

5.75

5.76

5.77

5.78

5.79

5.80

5.81

5.82

5.83

5.84

5.85

5.86

5.87

5.88

5.89

5.90

5.91

5.92

5.93

5.94

5.95

5.96

5.97

5.98

5.99

6.00

6.01

6.02

6.03

6.04

6.05

6.06

6.07

6.08

6.09

6.10

6.11

6.12

6.13

6.14

6.15

6.16

6.17

6.18

6.19

6.20

6.21

6.22

6.23

6.24

6.25

6.26

6.27

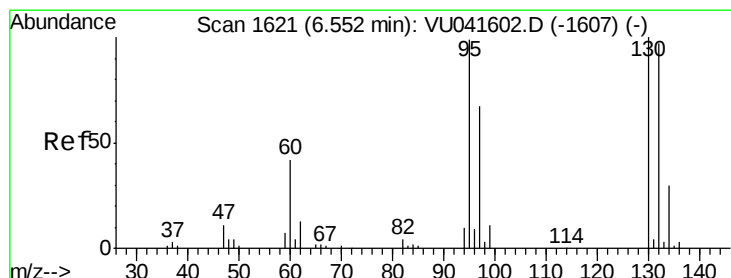
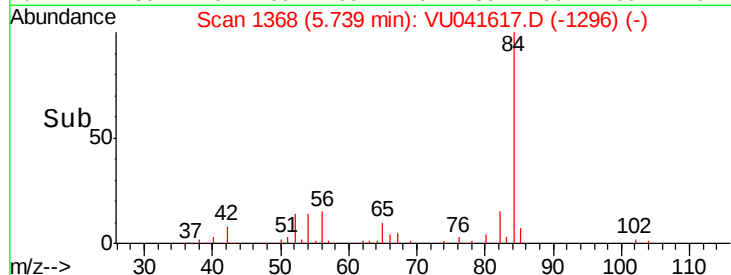
6.28

6.29

6.30

6.31

6.32



#34

Trichloroethene

Concen: 0.085 ug/L

RT: 6.56 min Scan# 1623

Delta R.T. 0.01 min

Lab File: VU041617.D

Acq: 14 Dec 2020 17:50

Tgt Ion: 95 Resp: 787

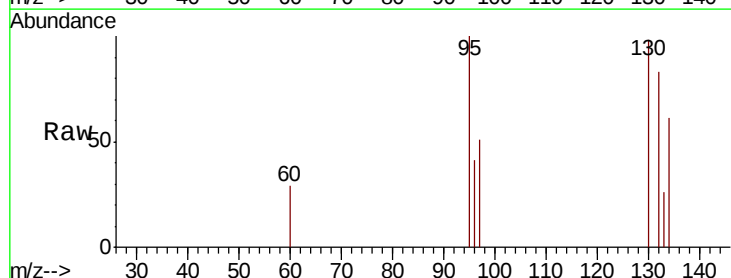
Ion Ratio Lower Upper

95 100

97 51.5 43.9 81.5

132 83.2 63.1 117.3

130 98.4 67.4 125.2



Abundance Ion 95.00 (94.70 to 95.70): VU041617.D (-1623) (-)

Ion 96.95 (96.65 to 97.65): VU041617.D (-1623) (-)

Ion 131.95 (131.65 to 132.65): VU041617.D (-1623) (-)

Ion 129.95 (129.65 to 130.65): VU041617.D (-1623) (-)

6.56

6.57

6.58

6.59

6.60

6.61

6.62

6.63

6.64

6.65

6.66

6.67

6.68

6.69

6.70

6.71

6.72

6.73

6.74

6.75

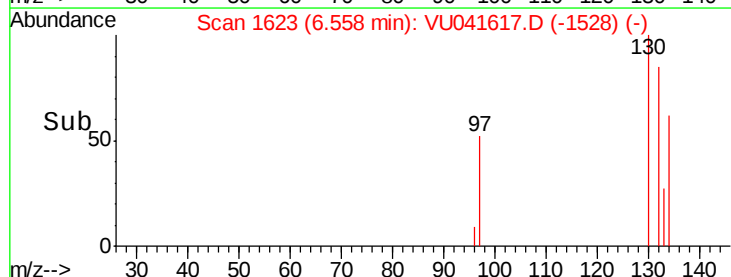
6.76

6.77

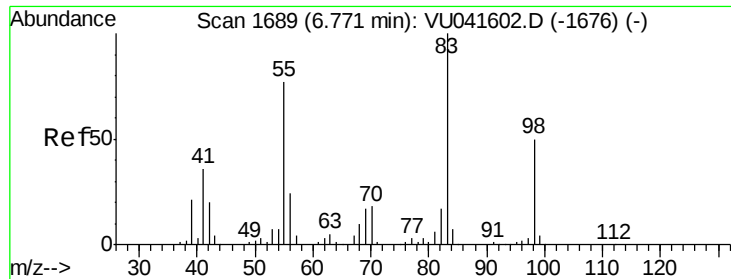
6.78

6.79

6.80



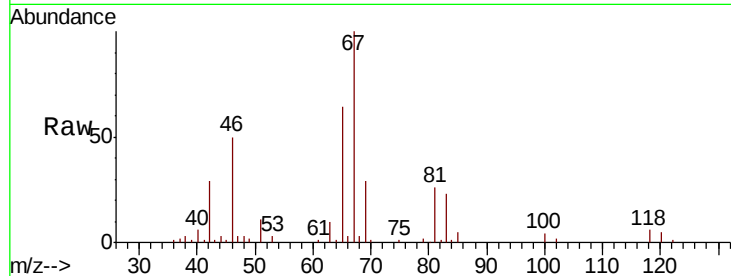
Time-->



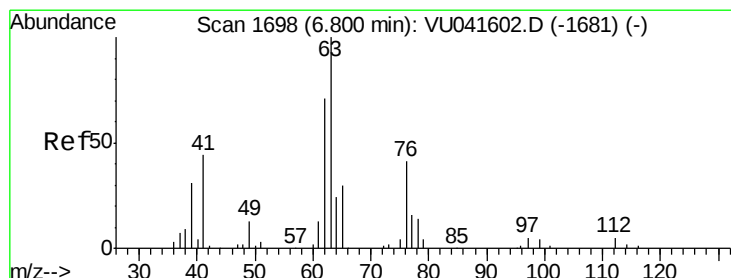
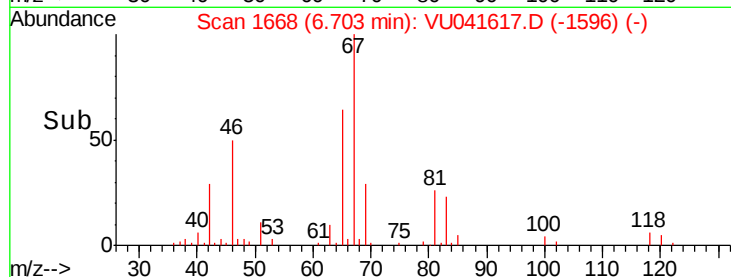
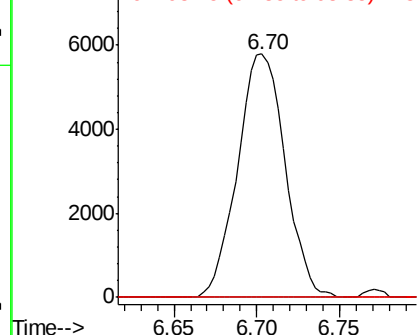
#35  
Methvlcvclohexane  
Concen: 0.768 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU041617.D  
Acq: 14 Dec 2020 17:50

Instrument :  
MSVOA\_U  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 0.0   | 61.2  | 91.8# |
| 98      | 2.7   | 36.6  | 54.8# |

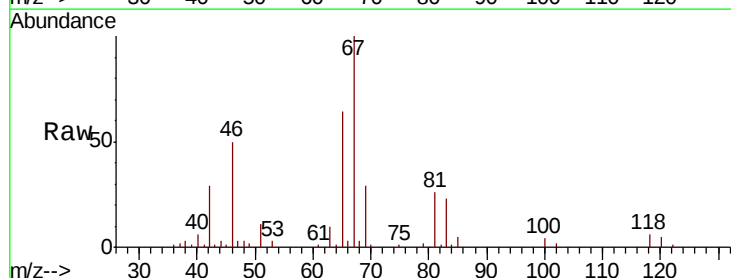


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

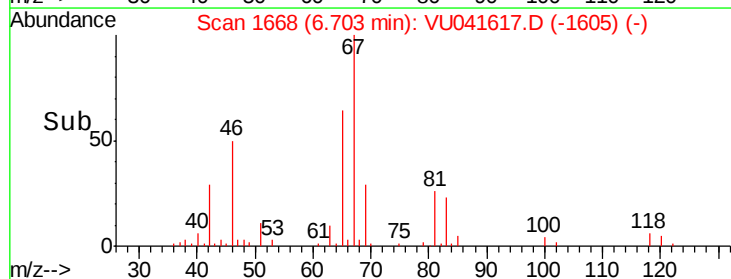
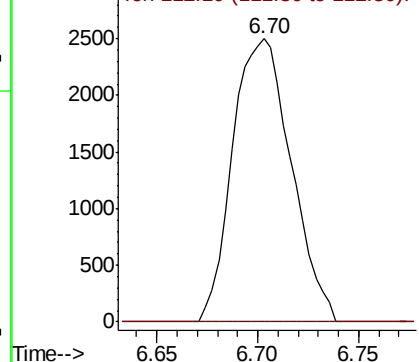


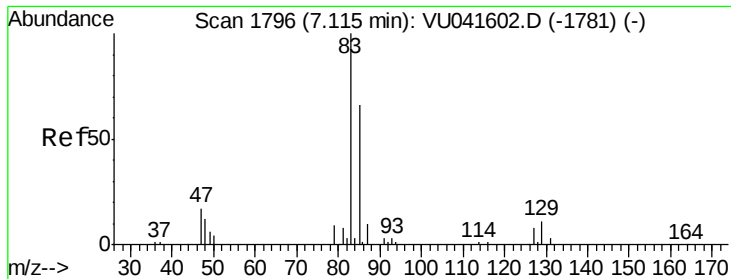
#37  
1,2-Dichloropropane  
Concen: 0.536 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU041617.D  
Acq: 14 Dec 2020 17:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 0.0   | 3.1   | 4.7#  |



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V

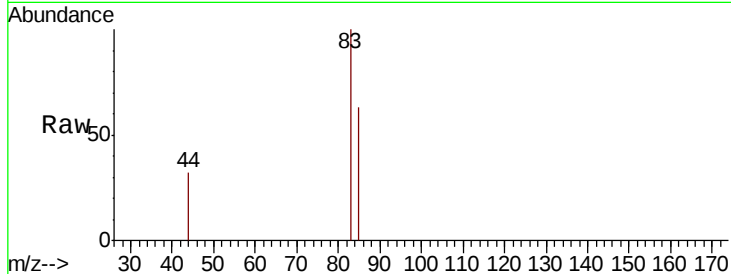




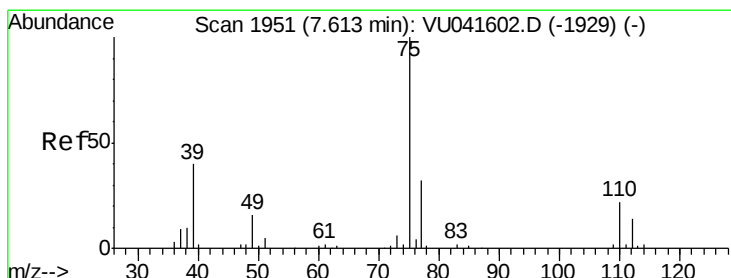
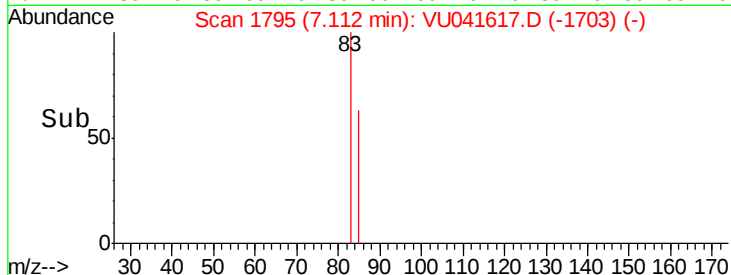
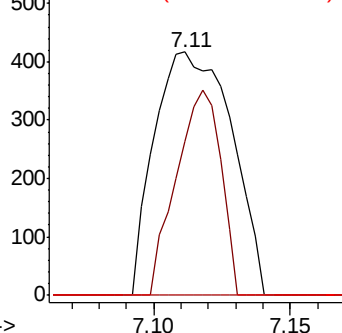
#38  
 Bromodichloromethane  
 Concen: 0.070 ug/L  
 RT: 7.11 min Scan# 1795  
 Delta R.T. -0.00 min  
 Lab File: VU041617.D  
 Acq: 14 Dec 2020 17:50

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 83 Resp: 820  
 Ion Ratio Lower Upper  
 83 100  
 85 63.1 45.5 84.5  
 127 0.0 7.0 10.6#

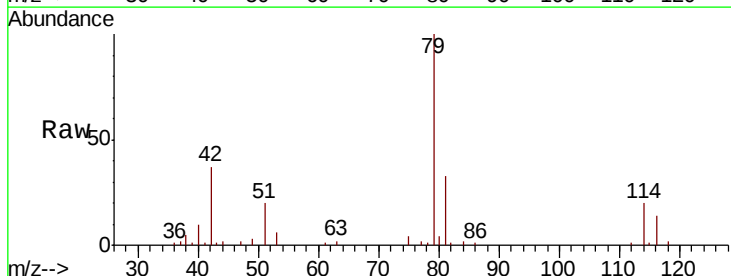


Abundance Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0  
 Ion 126.90 (126.60 to 127.60): V

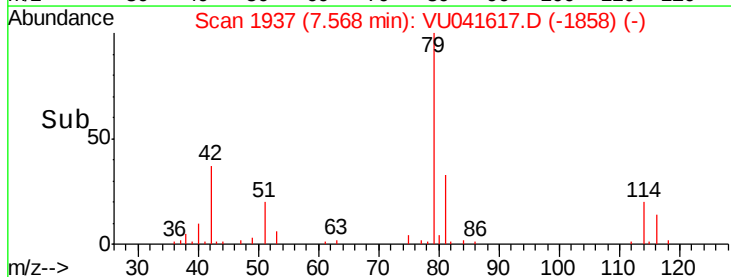
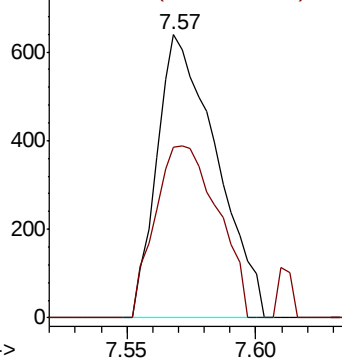


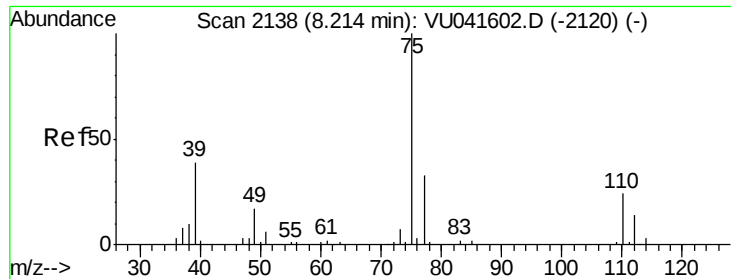
#39  
 cis-1,3-Dichloropropene  
 Concen: 0.073 ug/L  
 RT: 7.57 min Scan# 1937  
 Delta R.T. -0.05 min  
 Lab File: VU041617.D  
 Acq: 14 Dec 2020 17:50

Tgt Ion: 75 Resp: 1025  
 Ion Ratio Lower Upper  
 75 100  
 77 60.2 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0  
 Ion 77.05 (76.75 to 77.75): VU0

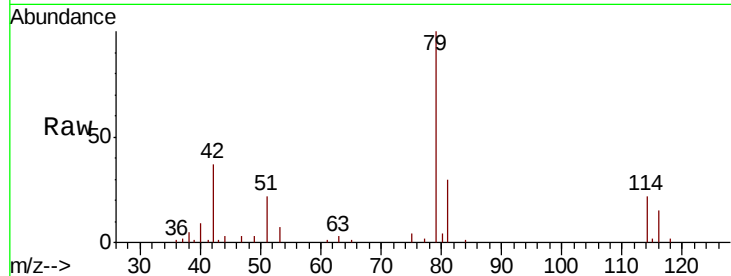




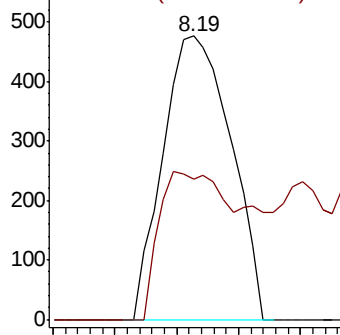
#44  
trans-1,3-Dichloropropene  
Concen: 0.058 ug/L  
RT: 8.19 min Scan# 2129  
Delta R.T. -0.03 min  
Lab File: VU041617.D  
Acq: 14 Dec 2020 17:50

Instrument :  
MSVOA\_U  
ClientSampleId :

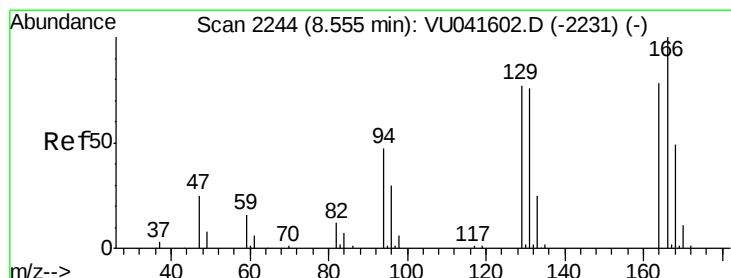
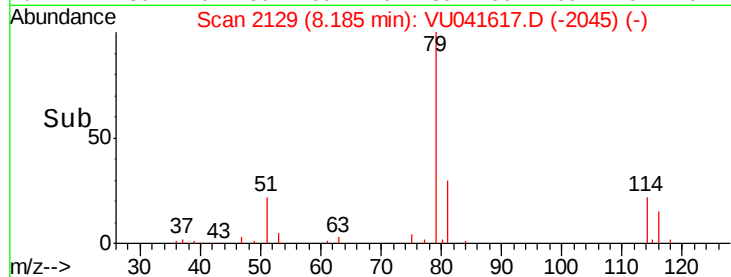
Tot Ion: 75 Resp: 728  
Ion Ratio Lower Upper  
75 100  
77 49.3 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU041617.D (-2120) (-)  
Ion 77.05 (76.75 to 77.75): VU041617.D (-2120) (-)

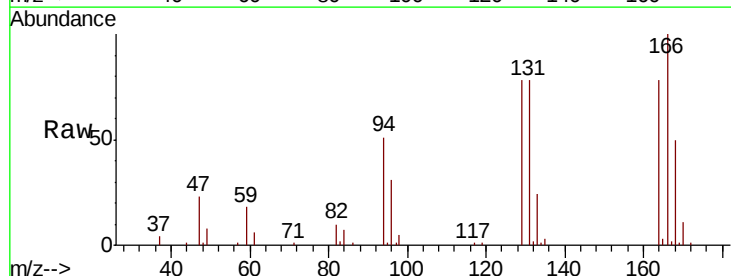


Time-->

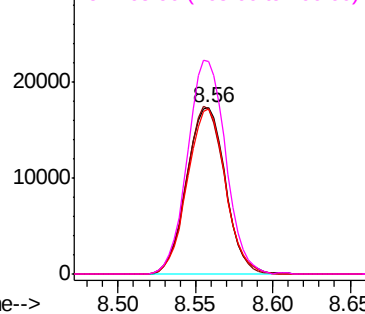


#47  
Tetrachloroethene  
Concen: 4.620 ug/L  
RT: 8.56 min Scan# 2245  
Delta R.T. 0.00 min  
Lab File: VU041617.D  
Acq: 14 Dec 2020 17:50

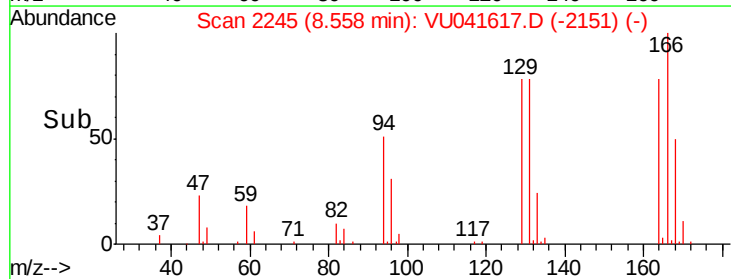
Tgt Ion:164 Resp: 30049  
Ion Ratio Lower Upper  
164 100  
129 99.6 72.2 134.0  
131 99.2 66.9 124.3  
166 127.9 89.6 166.4

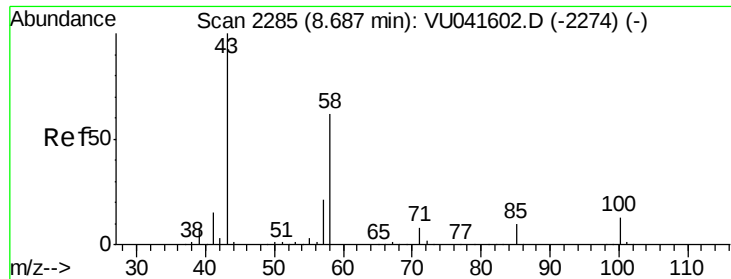


Abundance Ion 163.90 (163.60 to 164.60): VU041617.D (-2151) (-)  
Ion 128.95 (128.65 to 129.65): VU041617.D (-2151) (-)  
Ion 130.95 (130.65 to 131.65): VU041617.D (-2151) (-)  
Ion 165.90 (165.60 to 166.60): VU041617.D (-2151) (-)



Time-->

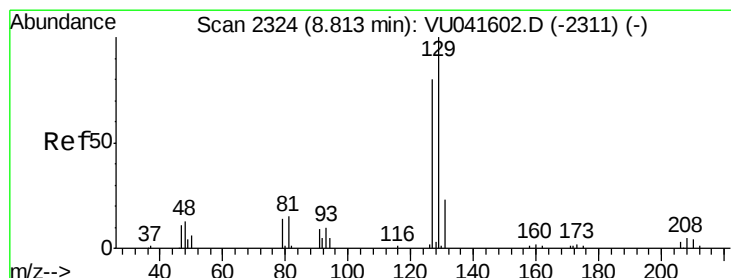
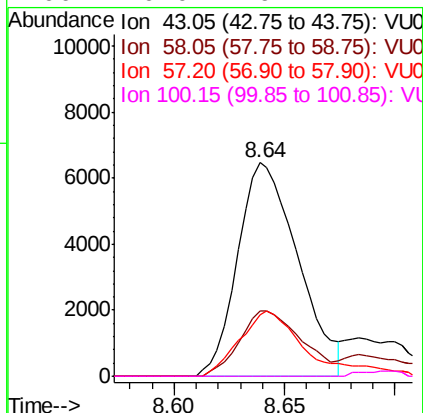
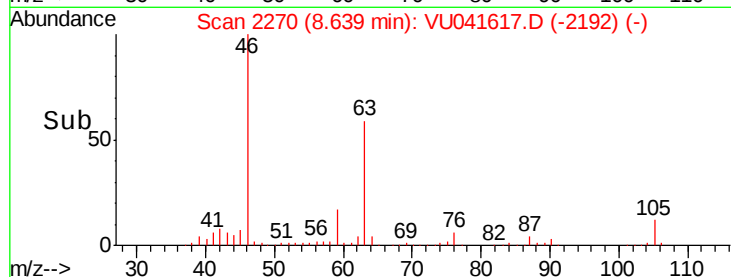
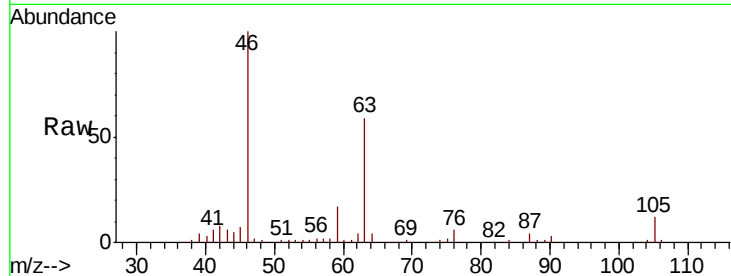




#48  
2-Hexanone  
Concen: 2.501 ug/L  
RT: 8.64 min Scan# 2270  
Delta R.T. -0.05 min  
Lab File: VU041617.D  
Acq: 14 Dec 2020 17:50

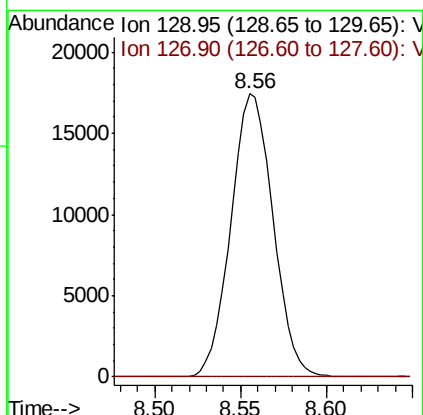
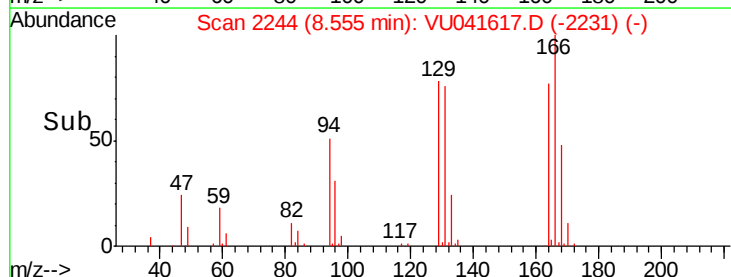
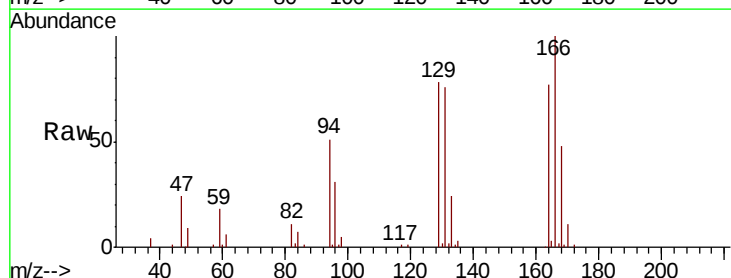
Instrument :  
MSVOA\_U  
ClientSampleId :

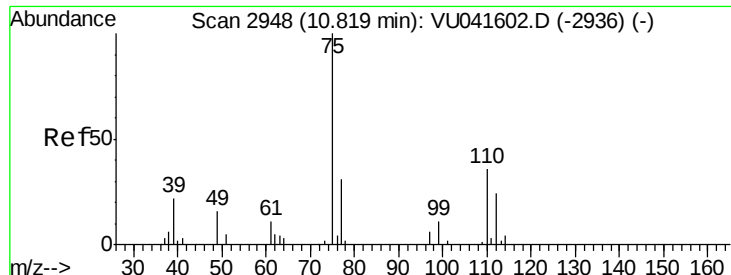
Tot Ion: 43 Resp: 12250  
Ion Ratio Lower Upper  
43 100  
58 31.0 47.9 71.9#  
57 33.7 16.5 24.7#  
100 0.0 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 3.714 ug/L  
RT: 8.56 min Scan# 2244  
Delta R.T. -0.26 min  
Lab File: VU041617.D  
Acq: 14 Dec 2020 17:50

Tgt Ion: 129 Resp: 29838  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.7 101.7#





#59

1,2,3-Trichloropropane

Concen: 0.848 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041617.D

Acq: 14 Dec 2020 17:50

Instrument :

MSVOA\_U

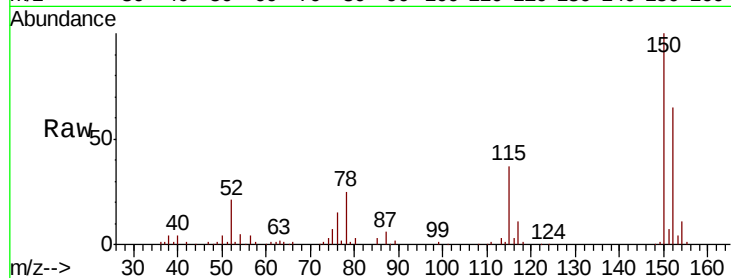
ClientSampleId :

Tot Ion: 75 Resp: 6020

Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

