

Data File : VU041331.D  
Acq On : 18 Nov 2020 22:59  
Operator : SY/MD  
Sample : L4790-15  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4399

Quant Time: Nov 19 00:54:18 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 19 00:50:13 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 65319    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 64845    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 26108    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 21357    | 4.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 88.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 18423    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 89.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 33509    | 3.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.60%  |
| 20) 2-Butanone-d5              | 4.66   | 46    | 88218    | 44.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.06%  |
| 24) Chloroform-d               | 5.08   | 84    | 48915    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 31138    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 86344    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 29961    | 4.97     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%  |
| 41) Toluene-d8                 | 7.91   | 98    | 69075    | 4.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 11286    | 4.35     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.00%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 63146    | 45.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 91.20%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 26062    | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 26956    | 5.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 105.80% |

#### Target Compounds

|                                |      |     |        |        |        | Qvalue |
|--------------------------------|------|-----|--------|--------|--------|--------|
| 3) Chloromethane               | 1.53 | 50  | 646    | 0.111  | ug/L   | 91     |
| 5) Vinyl chloride              | 1.61 | 62  | 132064 | 23.290 | ug/L   | 99     |
| 8) Chloroethane                | 1.88 | 64  | 578    | 0.154  | ug/L # | 50     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.57 | 101 | 228    | 0.047  | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 1289   | 0.303  | ug/L # | 1      |
| 13) Acetone                    | 2.66 | 43  | 1078   | 0.820  | ug/L   | 78     |
| 14) Carbon disulfide           | 2.81 | 76  | 597    | 0.048  | ug/L # | 74     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 8427   | 2.035  | ug/L   | 94     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 6413   | 0.693  | ug/L   | 91     |
| 21) 2-Butanone                 | 4.83 | 43  | 24184  | 12.121 | ug/L # | 55     |
| 22) cis-1,2-Dichloroethene     | 4.69 | 96  | 43925  | 9.392  | ug/L   | 99     |
| 27) 1,2-Dichloroethane         | 5.75 | 62  | 500    | 0.069  | ug/L # | 74     |
| 33) Benzene                    | 5.79 | 78  | 3344   | 0.190  | ug/L   | 100    |
| 34) Trichloroethene            | 6.55 | 95  | 3318   | 0.699  | ug/L   | 83     |
| 35) Methylcyclohexane          | 6.70 | 83  | 6833   | 1.083  | ug/L # | 13     |
| 37) 1,2-Dichloropropane        | 6.70 | 63  | 3708   | 0.722  | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene    | 7.57 | 75  | 834    | 0.116  | ug/L   | 86     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU111920\  
Quantitation Report (Not Reviewed)

Data File : VU041331.D  
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Quant Time: Nov 19 00:54:18 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Nov 19 00:50:13 2020  
Response via : Initial Calibration

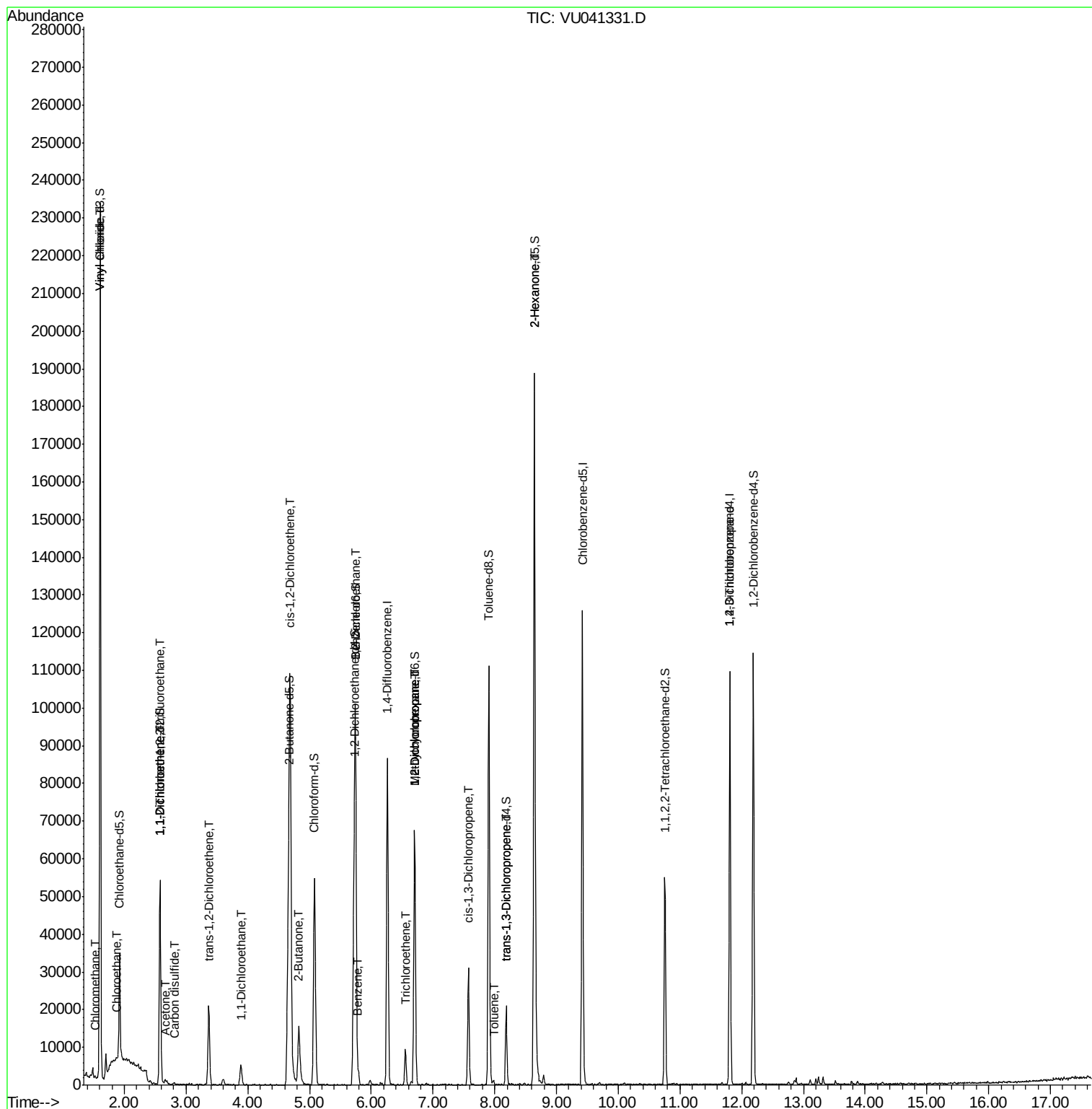
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 42) Toluene                   | 7.98  | 91   | 888      | 0.047 | ug/L # | 73       |
| 44) trans-1,3-Dichloropropene | 8.18  | 75   | 468      | 0.069 | ug/L # | 73       |
| 48) 2-Hexanone                | 8.64  | 43   | 9864     | 3.109 | ug/L # | 71       |
| 59) 1,2,3-Trichloropropane    | 11.81 | 75   | 3434     | 0.848 | ug/L # | 83       |

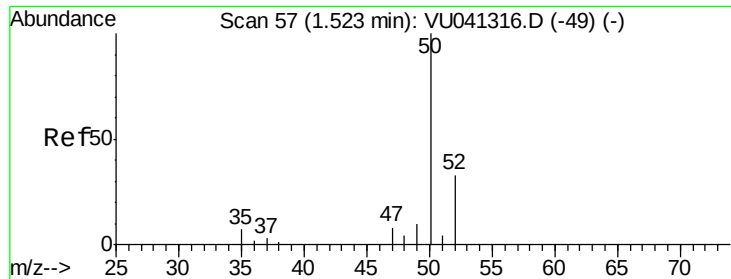
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU041331.D

Acq: 18 Nov 2020 22:59

Instrument :

MSVOA\_U

ClientSampleId :

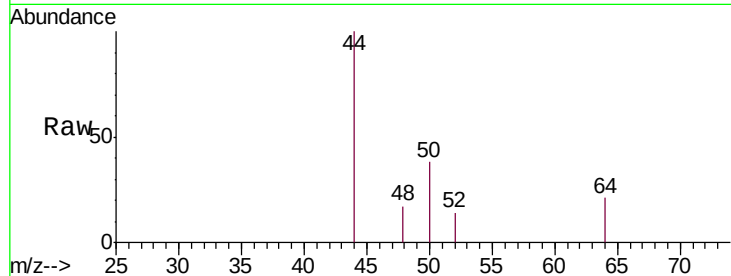
H4399

Tgt Ion: 50 Resp: 646

Ion Ratio Lower Upper

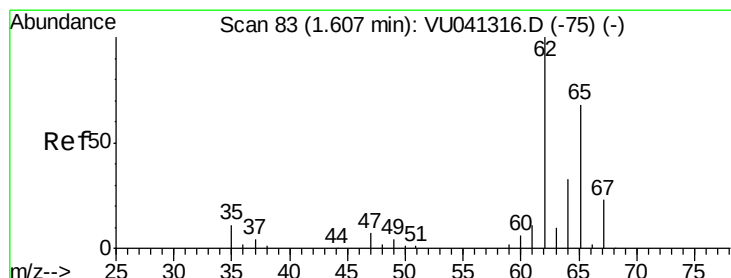
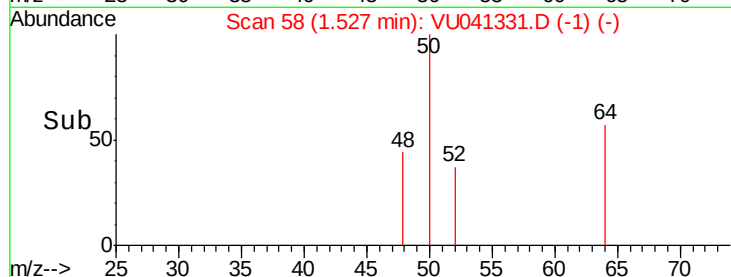
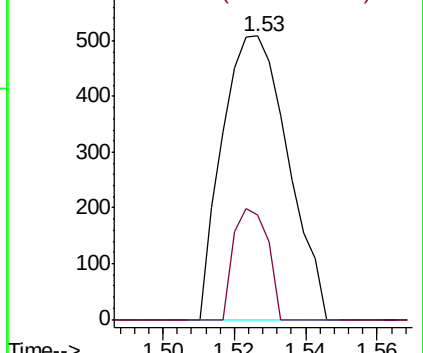
50 100

52 37.0 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 23.290 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041331.D

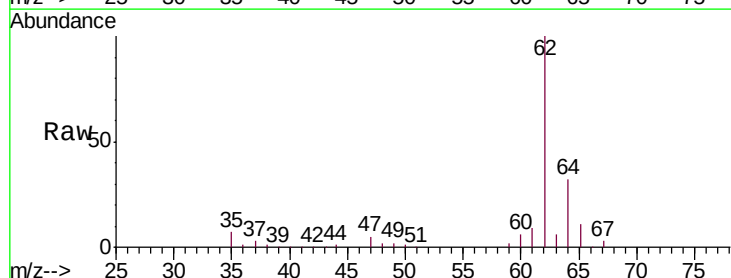
Acq: 18 Nov 2020 22:59

Tgt Ion: 62 Resp: 132064

Ion Ratio Lower Upper

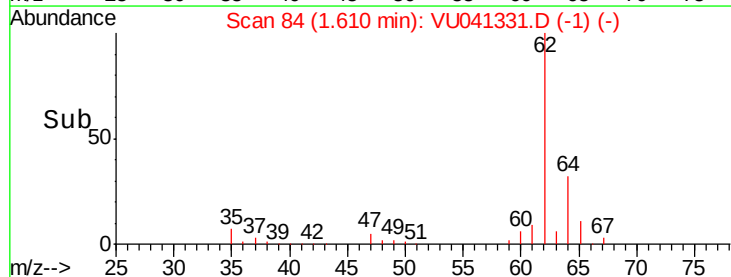
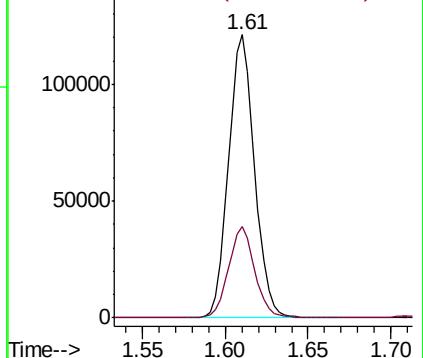
62 100

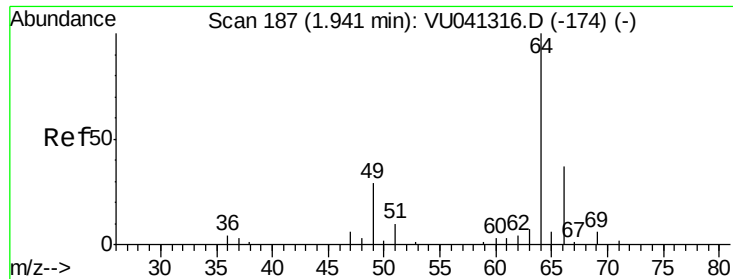
64 32.1 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

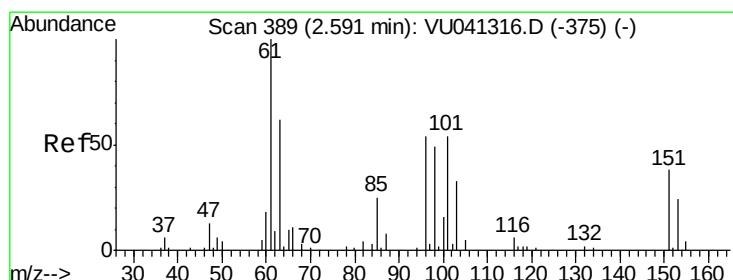
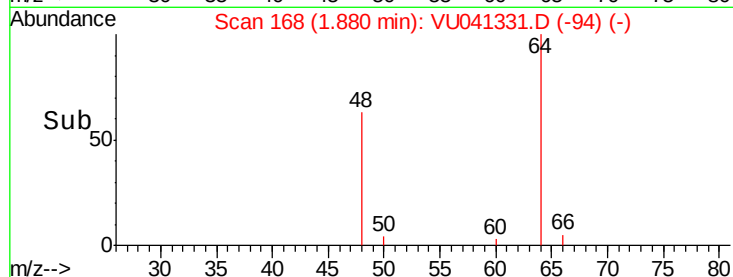
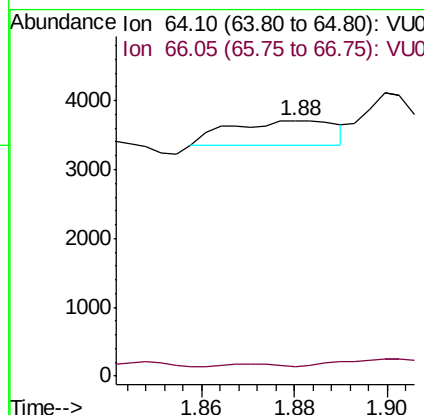
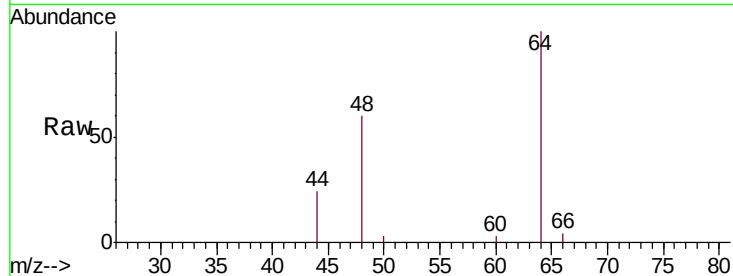




#8  
Chloroethane  
Concen: 0.154 ug/L  
RT: 1.88 min Scan# 168  
Delta R.T. -0.06 min  
Lab File: VU041331.D  
Acq: 18 Nov 2020 22:59

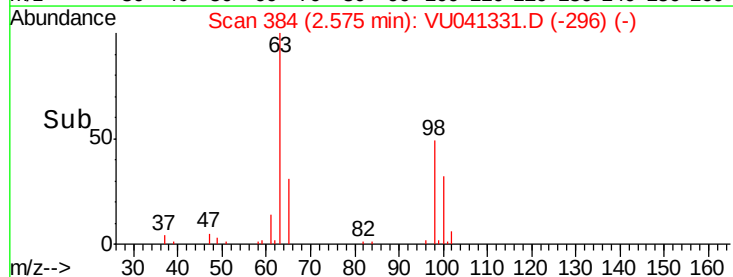
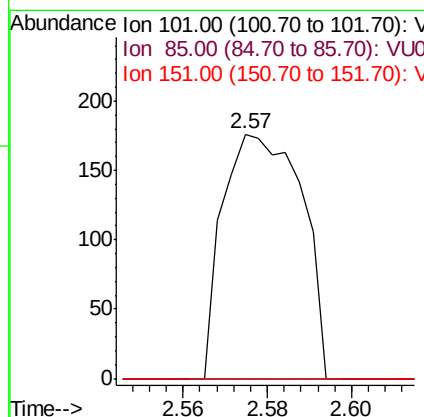
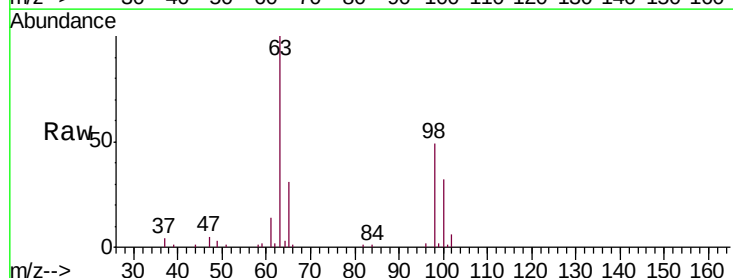
Instrument :  
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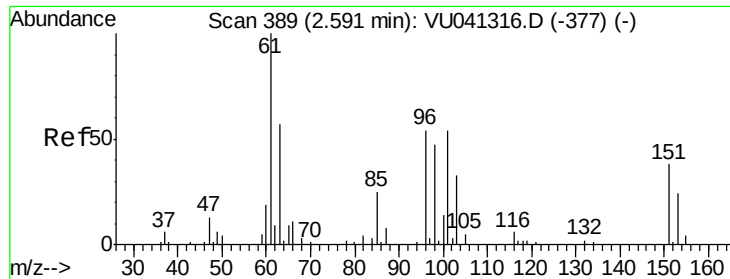
Tgt Ion: 64 Resp: 578  
Ion Ratio Lower Upper  
64 100  
66 3.9 22.3 41.5#



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.047 ug/L  
RT: 2.57 min Scan# 384  
Delta R.T. -0.02 min  
Lab File: VU041331.D  
Acq: 18 Nov 2020 22:59

Tgt Ion: 101 Resp: 228  
Ion Ratio Lower Upper  
101 100  
85 0.0 35.0 52.4#  
151 0.0 55.3 82.9#

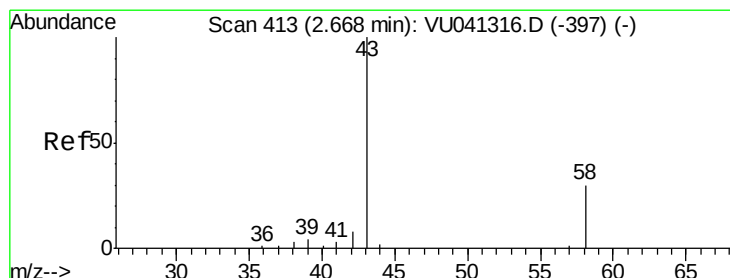
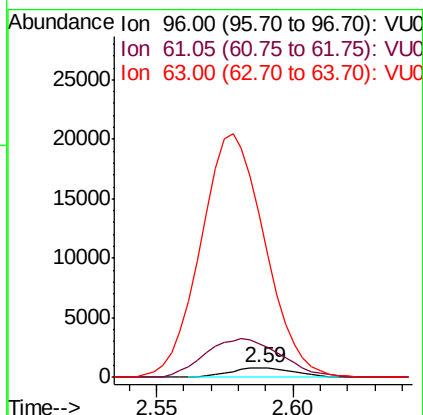
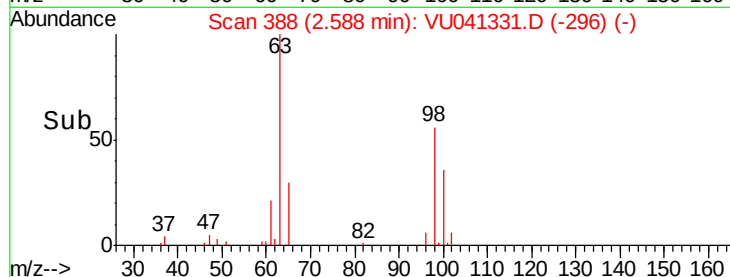
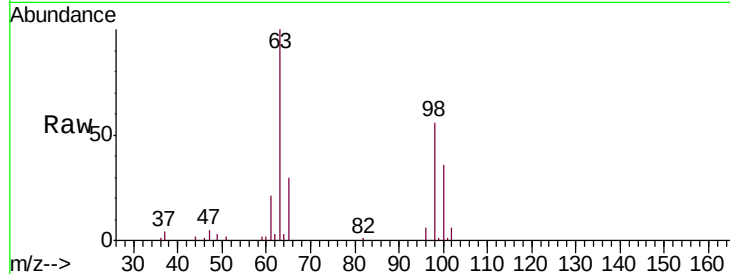




#12  
 1,1-Dichloroethene  
 Concen: 0.303 ug/L  
 RT: 2.59 min Scan# 388  
 Delta R.T. -0.00 min  
 Lab File: VU041331.D  
 Acq: 18 Nov 2020 22:59

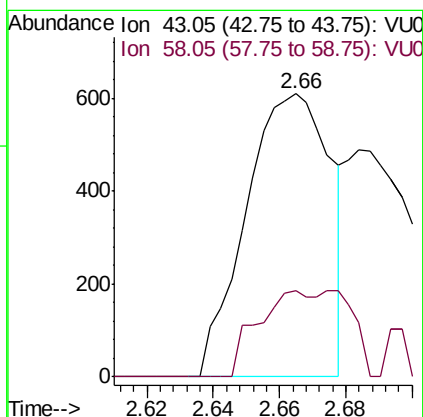
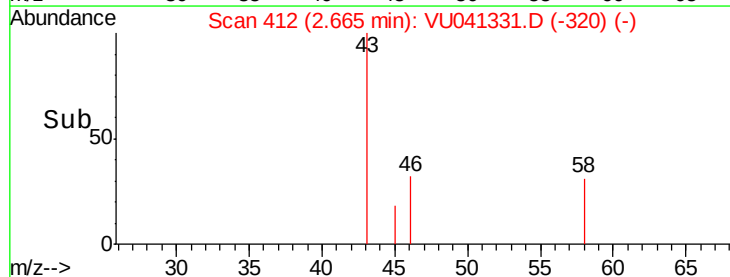
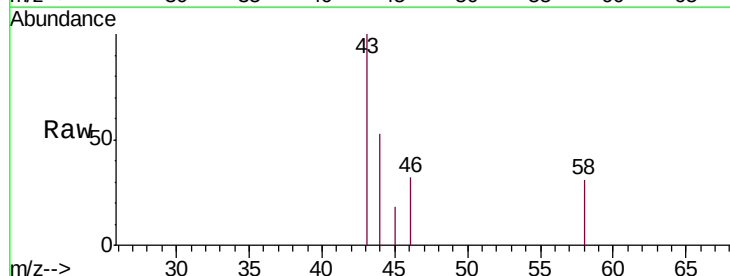
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4399

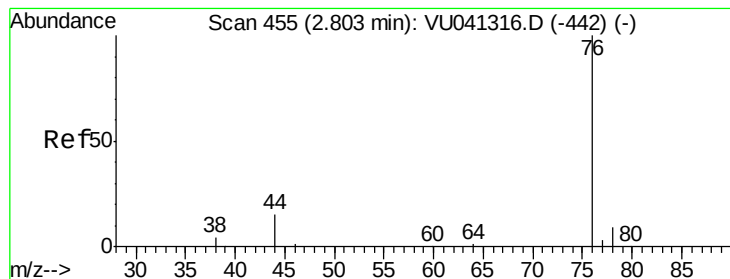
Tgt Ion: 96 Resp: 1289  
 Ion Ratio Lower Upper  
 96 100  
 61 364.0 134.3 249.5#  
 63 1745.6 95.0 176.4#



#13  
 Acetone  
 Concen: 0.820 ug/L  
 RT: 2.66 min Scan# 412  
 Delta R.T. -0.00 min  
 Lab File: VU041331.D  
 Acq: 18 Nov 2020 22:59

Tgt Ion: 43 Resp: 1078  
 Ion Ratio Lower Upper  
 43 100  
 58 21.5 0.0 25.4





#14

Carbon disulfide

Concen: 0.048 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.01 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

Instrument :

MSVOA\_U

ClientSampleId :

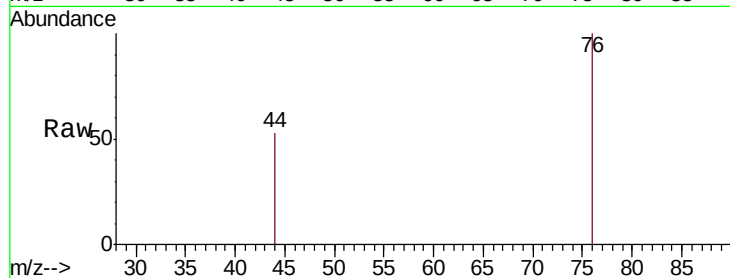
H4399

Tgt Ion: 76 Resp: 597

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#

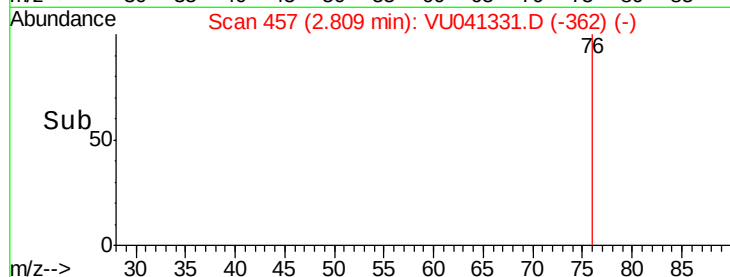


Abundance Ion 76.05 (75.75 to 76.75): VU0

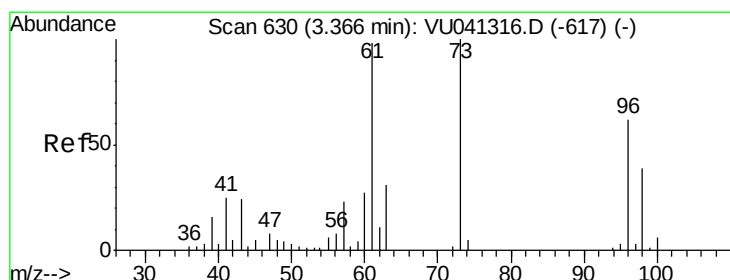
Ion 78.00 (77.70 to 78.70): VU0

2.81

Time-->



Time-->



#18

trans-1,2-Dichloroethene

Concen: 2.035 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

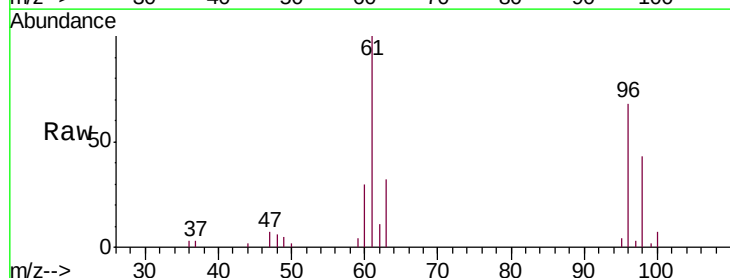
Tgt Ion: 96 Resp: 8427

Ion Ratio Lower Upper

96 100

61 147.8 110.9 205.9

98 64.0 45.4 84.2



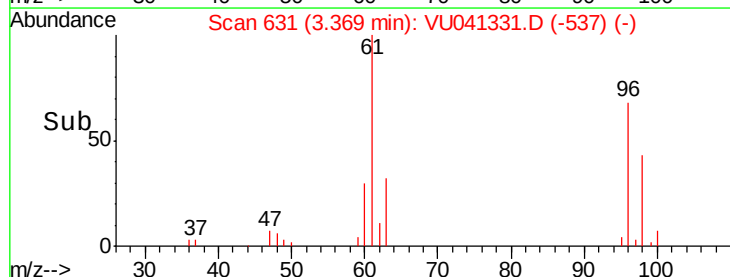
Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

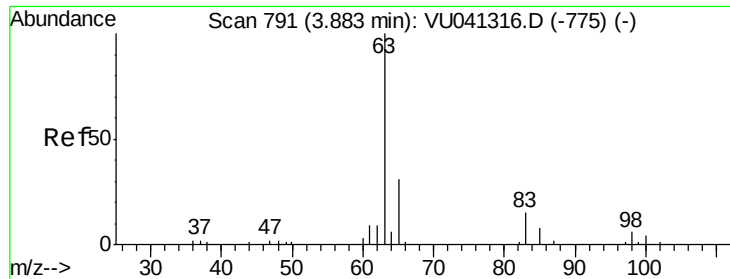
Ion 97.95 (97.65 to 98.65): VU0

3.37

Time-->



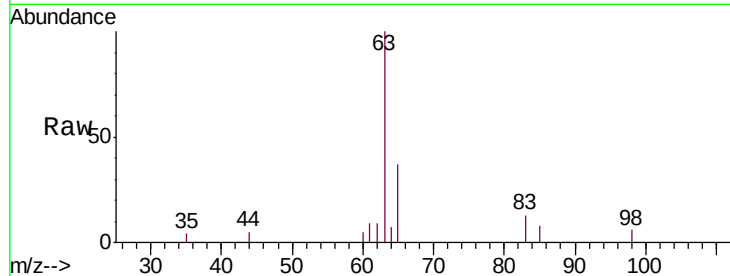
Time-->



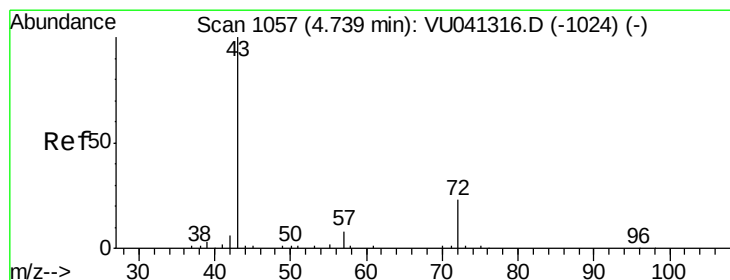
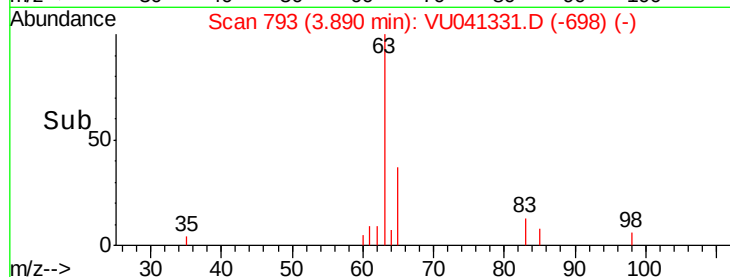
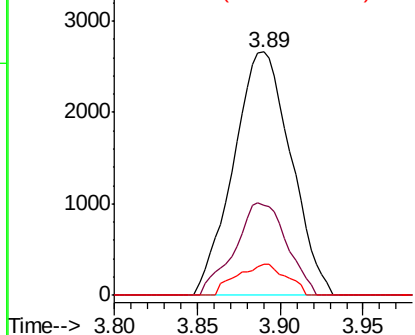
#19  
 1,1-Dichloroethane  
 Concen: 0.693 ug/L  
 RT: 3.89 min Scan# 793  
 Delta R.T. 0.01 min  
 Lab File: VU041331.D  
 Acq: 18 Nov 2020 22:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4399

Tgt Ion: 63 Resp: 6413  
 Ion Ratio Lower Upper  
 63 100  
 65 37.2 21.3 39.6  
 83 12.7 8.8 16.3

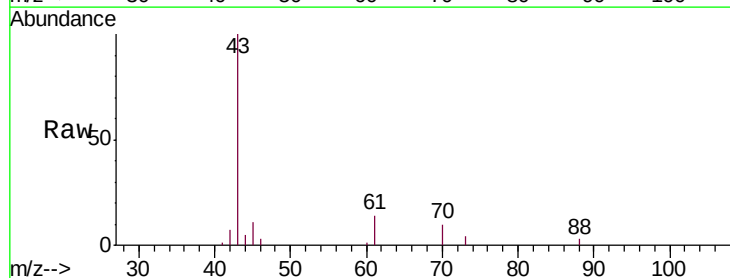


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

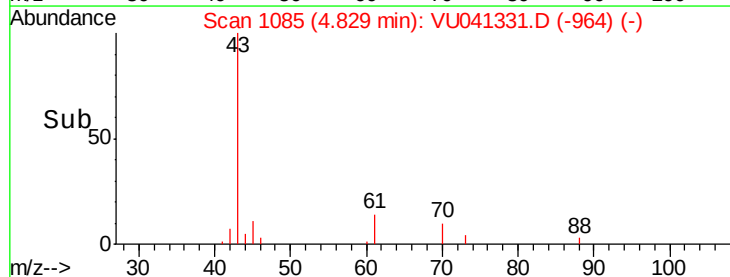
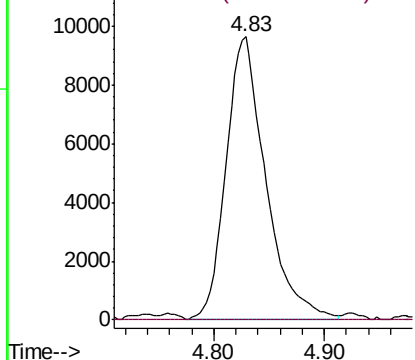


#21  
 2-Butanone  
 Concen: 12.121 ug/L  
 RT: 4.83 min Scan# 1085  
 Delta R.T. 0.09 min  
 Lab File: VU041331.D  
 Acq: 18 Nov 2020 22:59

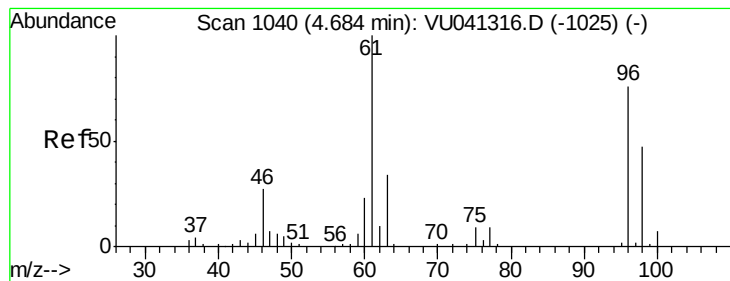
Tgt Ion: 43 Resp: 24184  
 Ion Ratio Lower Upper  
 43 100  
 72 1.8 11.8 35.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0







#22

cis-1,2-Dichloroethene

Concen: 9.392 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

Instrument :

MSVOA\_U

ClientSampleId :

H4399

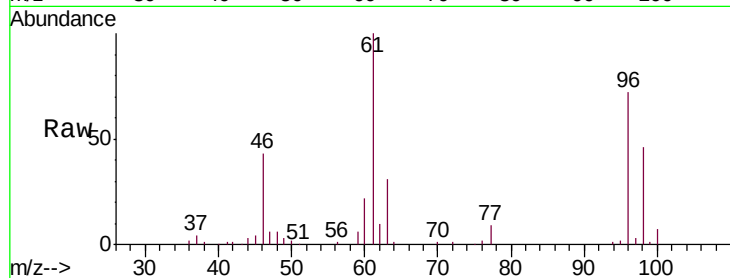
Tgt Ion: 96 Resp: 43925

Ion Ratio Lower Upper

96 100

61 139.7 97.2 180.4

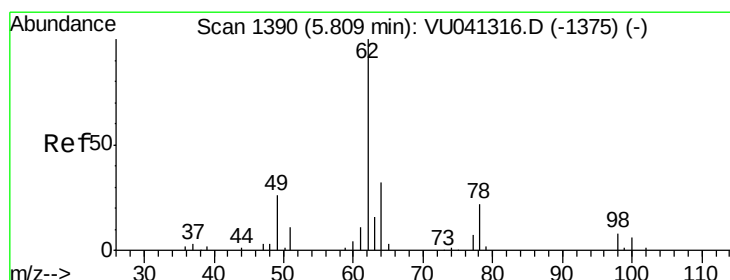
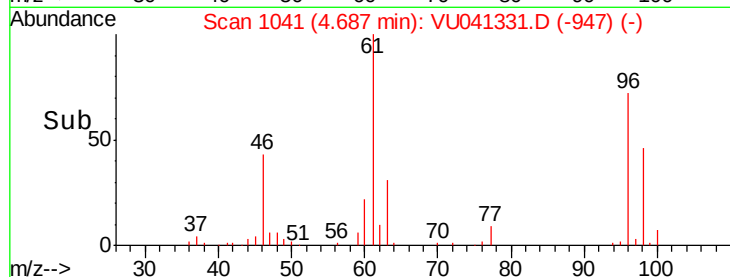
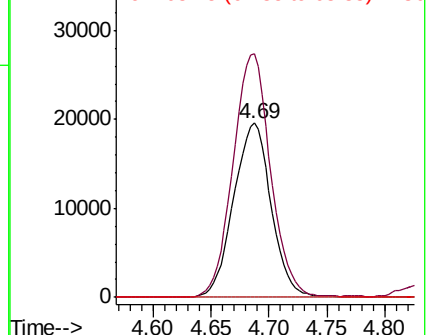
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#27

1,2-Dichloroethane

Concen: 0.069 ug/L

RT: 5.75 min Scan# 1370

Delta R.T. -0.06 min

Lab File: VU041331.D

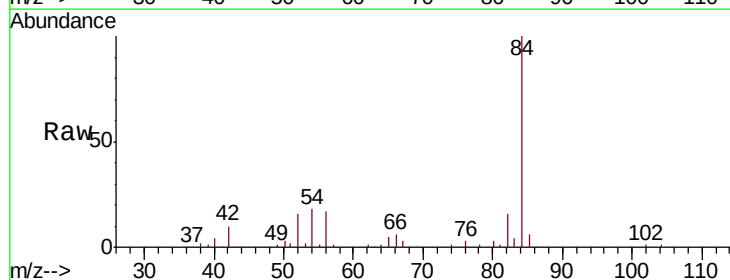
Acq: 18 Nov 2020 22:59

Tgt Ion: 62 Resp: 500

Ion Ratio Lower Upper

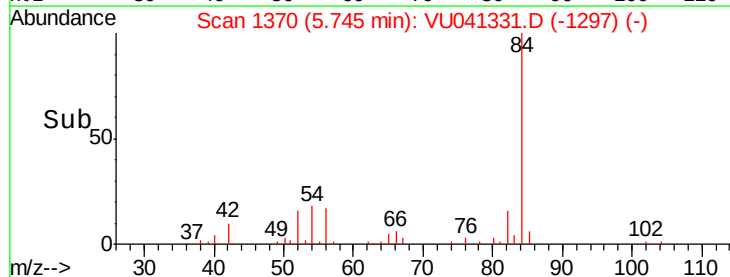
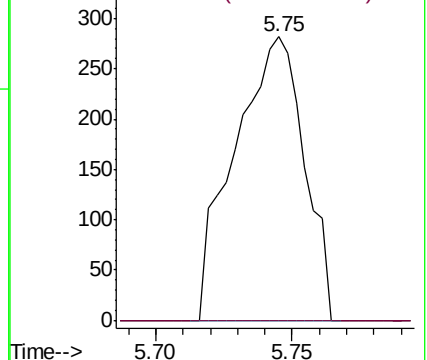
62 100

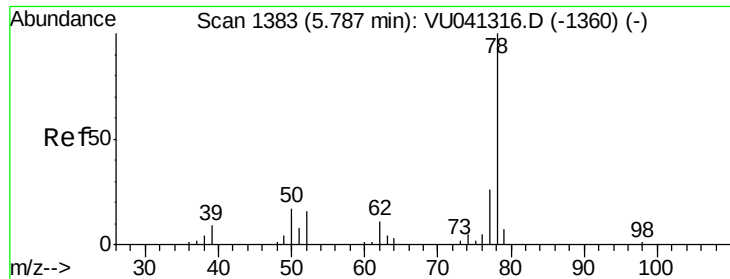
98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.05 (97.75 to 98.75): VU0





#33

Benzene

Concen: 0.190 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

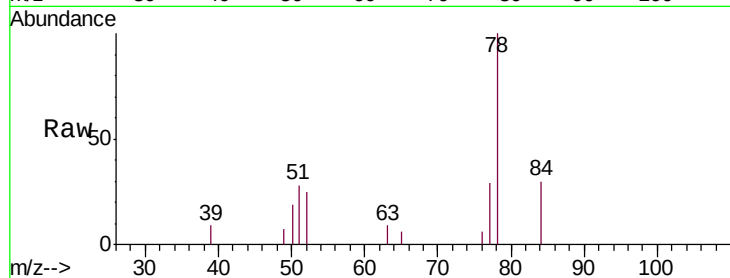
Instrument :

MSVOA\_U

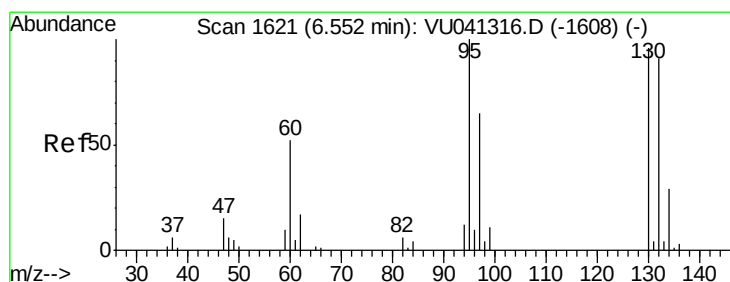
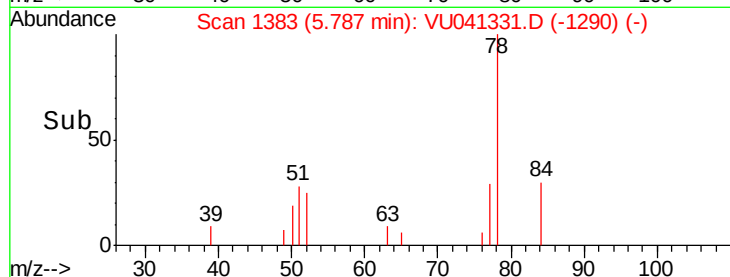
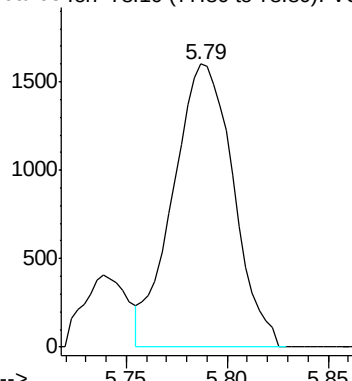
ClientSampled :

H4399

Tgt Ion: 78 Resp: 3344



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.699 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

Tgt Ion: 95 Resp: 3318

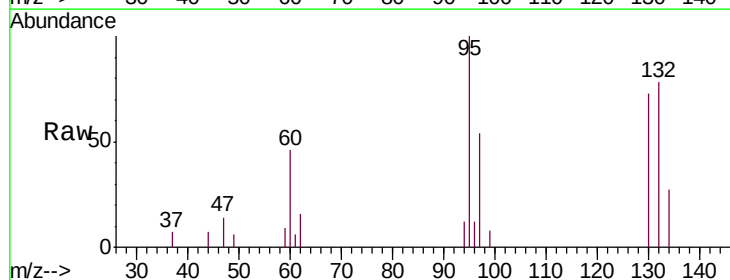
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 53.9  | 45.6  | 84.6  |
| 132 | 78.0  | 64.8  | 120.4 |
| 130 | 73.1  | 64.8  | 120.4 |

95 100

97 53.9 45.6 84.6

132 78.0 64.8 120.4

130 73.1 64.8 120.4

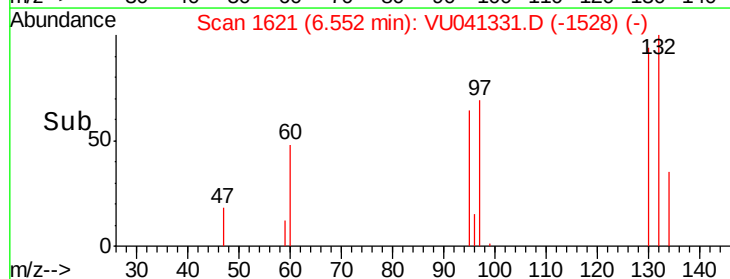
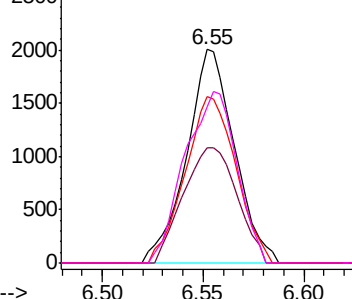


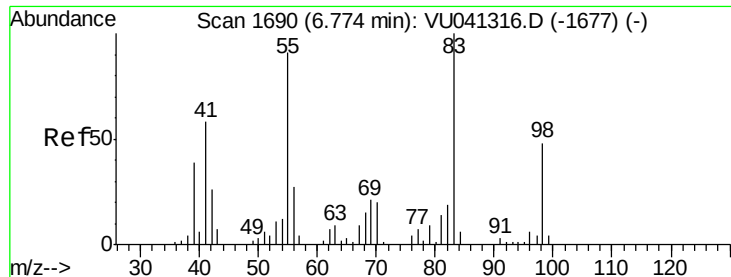
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

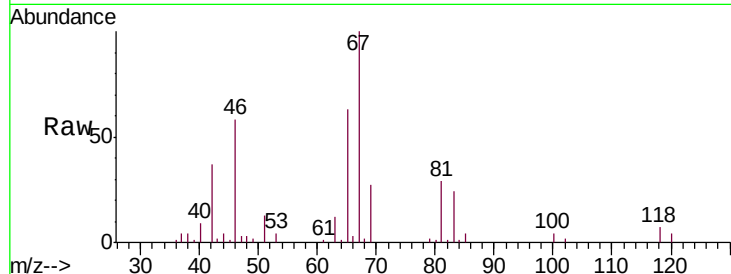




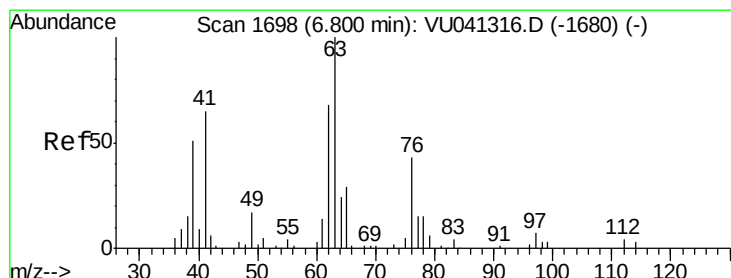
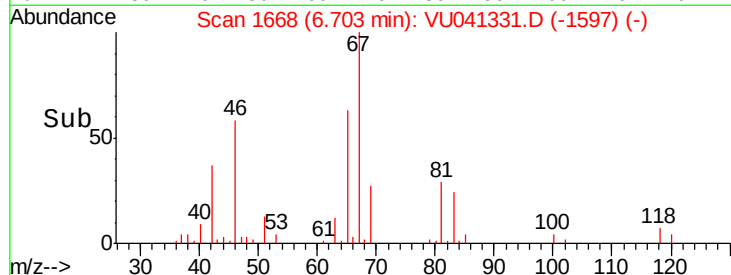
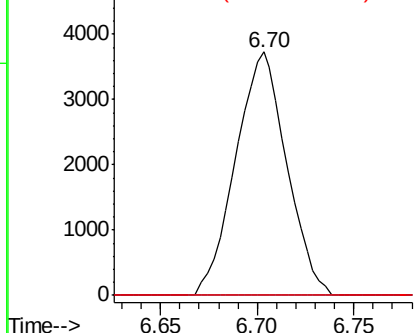
#35  
Methylcyclohexane  
Concen: 1.083 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU041331.D  
Acq: 18 Nov 2020 22:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4399

Tgt Ion: 83 Resp: 6833  
Ion Ratio Lower Upper  
83 100  
55 0.0 72.0 108.0#  
98 0.3 36.6 55.0#

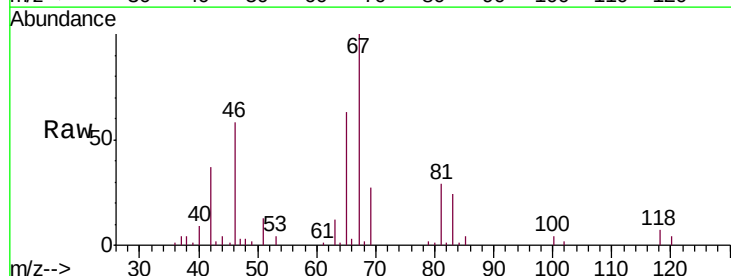


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

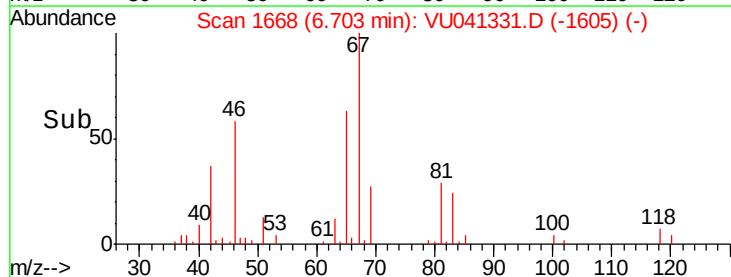
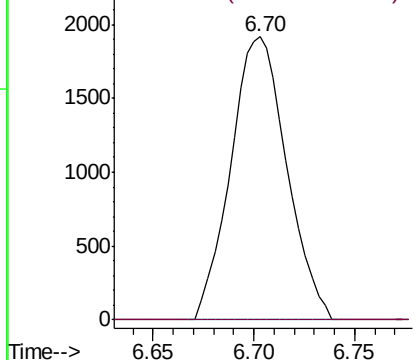


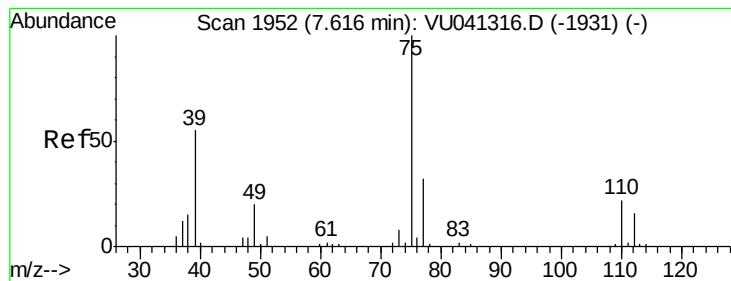
#37  
1,2-Dichloropropane  
Concen: 0.722 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU041331.D  
Acq: 18 Nov 2020 22:59

Tgt Ion: 63 Resp: 3708  
Ion Ratio Lower Upper  
63 100  
112 0.0 3.6 5.4#



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



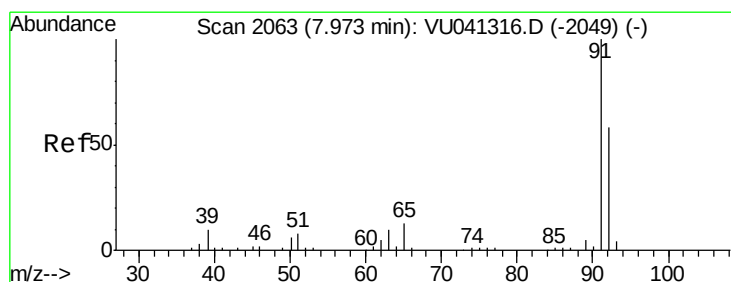
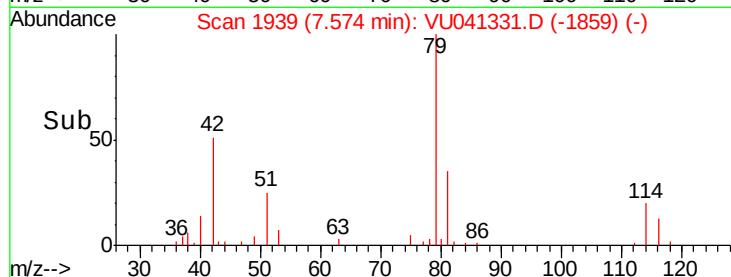
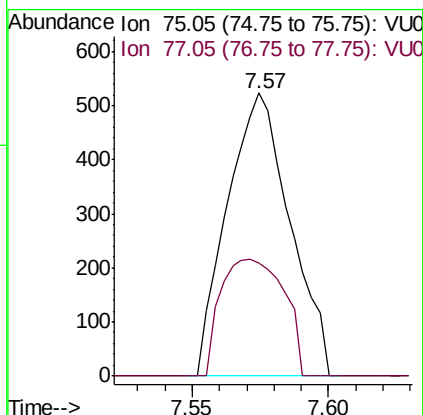
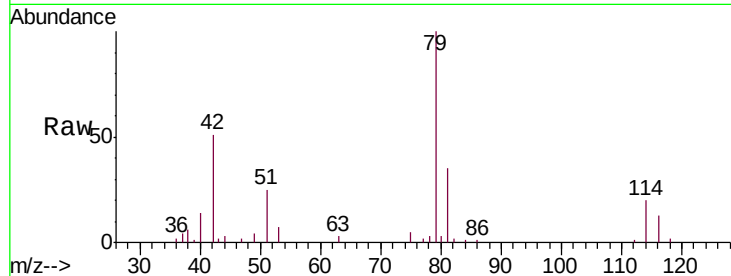


#39

cis-1,3-Dichloropropene  
Concen: 0.116 ug/L  
RT: 7.57 min Scan# 1939  
Delta R.T. -0.04 min  
Lab File: VU041331.D  
Acq: 18 Nov 2020 22:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
H4399

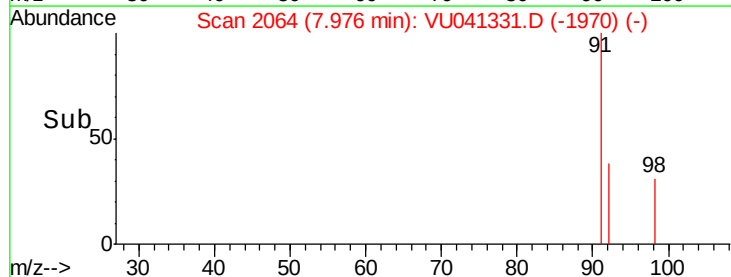
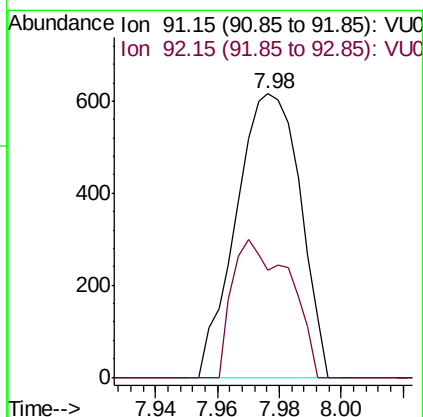
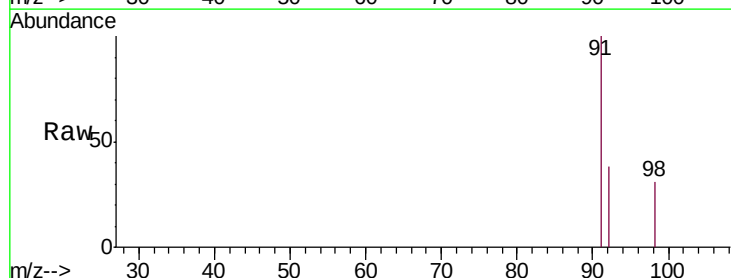
Tgt Ion: 75 Resp: 834  
Ion Ratio Lower Upper  
75 100  
77 40.2 22.7 42.3

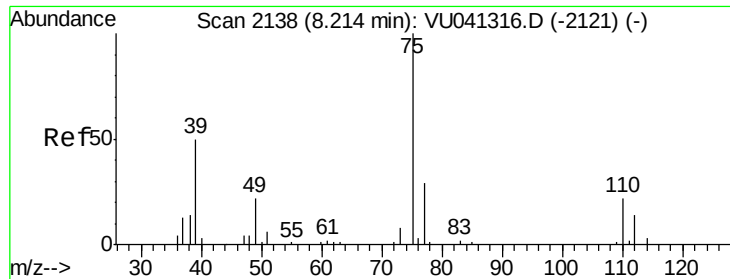


#42

Toluene  
Concen: 0.047 ug/L  
RT: 7.98 min Scan# 2064  
Delta R.T. 0.00 min  
Lab File: VU041331.D  
Acq: 18 Nov 2020 22:59

Tgt Ion: 91 Resp: 888  
Ion Ratio Lower Upper  
91 100  
92 37.7 40.6 75.4#





#44

trans-1,3-Dichloropropene

Concen: 0.069 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

Instrument :

MSVOA\_U

ClientSampleId :

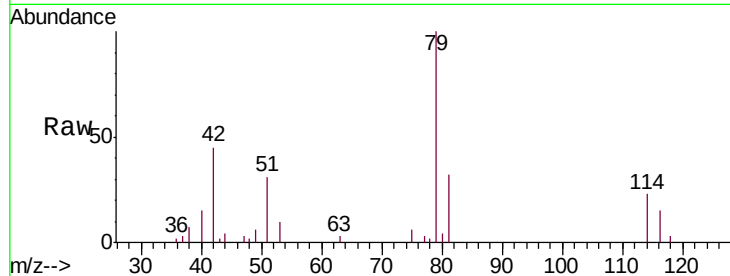
H4399

Tgt Ion: 75 Resp: 468

Ion Ratio Lower Upper

75 100

77 48.5 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.18

400

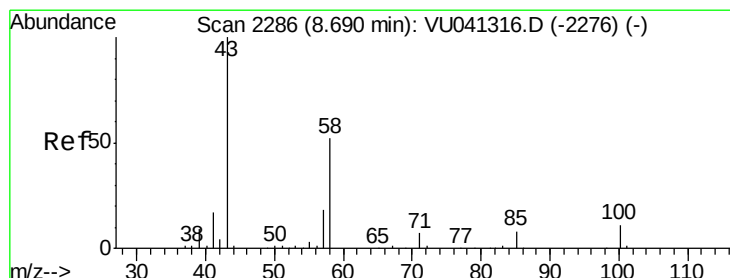
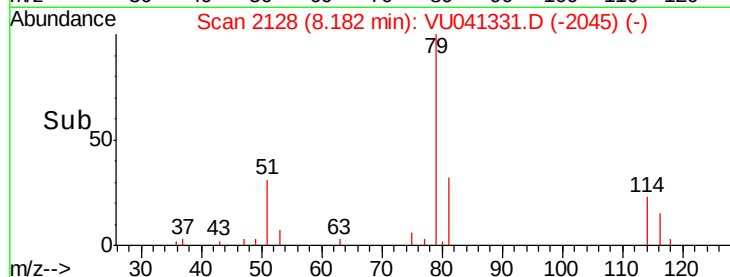
300

200

100

0

Time-->



#48

2-Hexanone

Concen: 3.109 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

Tgt Ion: 43 Resp: 9864

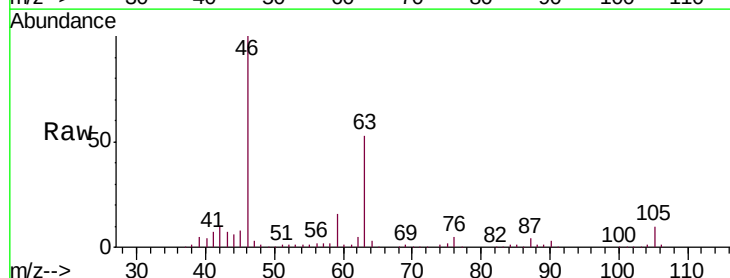
Ion Ratio Lower Upper

43 100

58 30.1 41.4 62.2#

57 30.4 14.6 21.8#

100 0.8 8.3 12.5#



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

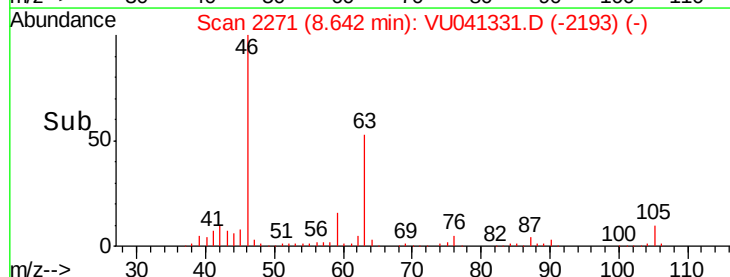
6000

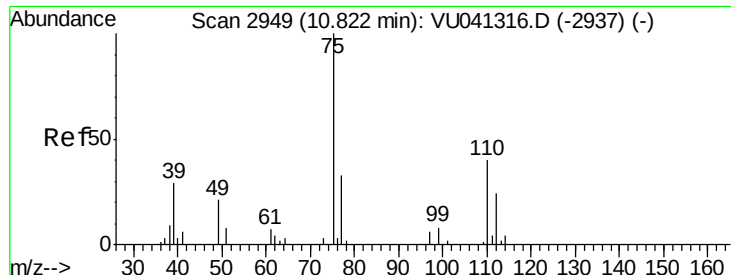
4000

2000

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.848 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041331.D

Acq: 18 Nov 2020 22:59

Instrument :

MSVOA\_U

ClientSampleId :

H4399

Tgt Ion: 75 Resp: 3434

Ion Ratio Lower Upper

75 100

77 41.8 25.7 38.5#

