

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
 Data File : VU037797.D  
 Acq On : 18 Apr 2020 01:54  
 Operator : JC/MD  
 Sample : L2319-09  
 Misc : 25mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Apr 18 05:24:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Apr 18 05:19:30 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 276268   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 268062   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 129261   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 74746    | 3.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 73651    | 4.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 83.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 109120   | 2.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 58.80%# |
| 20) 2-Butanone-d5              | 4.66   | 46    | 303332   | 52.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.66% |
| 24) Chloroform-d               | 5.10   | 84    | 154065   | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 93423    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.40%  |
| 32) Benzene-d6                 | 5.76   | 84    | 318308   | 4.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 110250   | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.60%  |
| 41) Toluene-d8                 | 7.92   | 98    | 281663   | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.60%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 44445    | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 84.00%  |
| 46) 2-Hexanone-d5              | 8.65   | 63    | 257086   | 47.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 85996    | 4.62     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.40%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 106913   | 4.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 92.80%  |

## Target Compounds

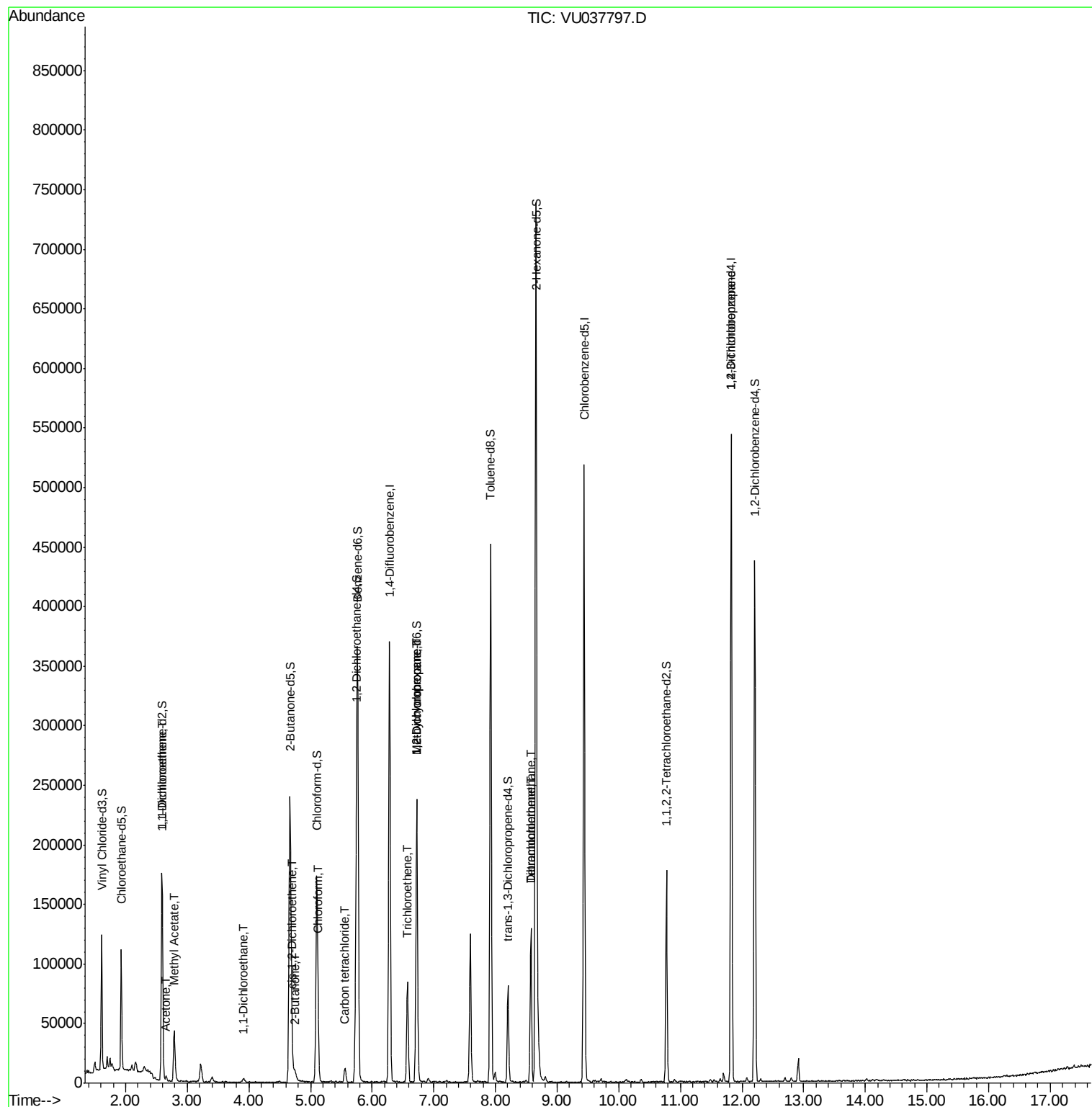
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 12) 1,1-Dichloroethene     | 2.60  | 96   | 4084     | 0.214 | ug/L # | 1      |
| 13) Acetone                | 2.66  | 43   | 4580     | 1.210 | ug/L   | 99     |
| 15) Methyl Acetate         | 2.79  | 43   | 10400    | 0.988 | ug/L # | 54     |
| 19) 1,1-Dichloroethane     | 3.91  | 63   | 3795     | 0.095 | ug/L   | 92     |
| 21) 2-Butanone             | 4.75  | 43   | 10213    | 1.485 | ug/L   | 100    |
| 22) cis-1,2-Dichloroethene | 4.71  | 96   | 2982     | 0.134 | ug/L   | 90     |
| 25) Chloroform             | 5.13  | 83   | 9185     | 0.242 | ug/L   | 97     |
| 31) Carbon tetrachloride   | 5.56  | 117  | 7858     | 0.303 | ug/L   | 95     |
| 34) Trichloroethene        | 6.57  | 95   | 27760    | 1.275 | ug/L   | 92     |
| 35) Methylcyclohexane      | 6.72  | 83   | 24269    | 0.636 | ug/L # | 16     |
| 37) 1,2-Dichloropropane    | 6.72  | 63   | 12252    | 0.522 | ug/L # | 87     |
| 47) Tetrachloroethene      | 8.57  | 164  | 27683    | 1.770 | ug/L   | 95     |
| 49) Dibromochloromethane   | 8.57  | 129  | 25866    | 1.430 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane | 11.83 | 75   | 17471    | 1.136 | ug/L # | 87     |

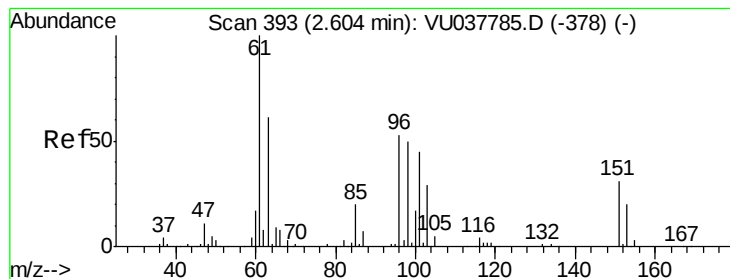
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\  
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Acq On : 18 Apr 2020 01:54  
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Sample : L2319-09  
Misc : 25mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Apr 18 05:24:30 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR041420WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Apr 18 05:19:30 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.214 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

Instrument :  
MSVOA\_U  
ClientSampled :

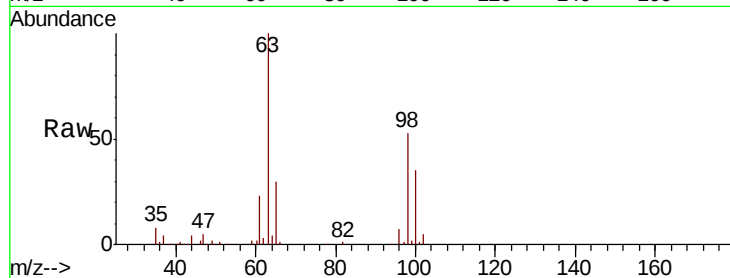
Tot Ion: 96 Resp: 4084

Ion Ratio Lower Upper

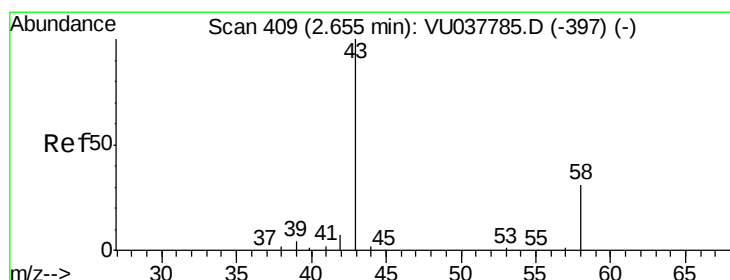
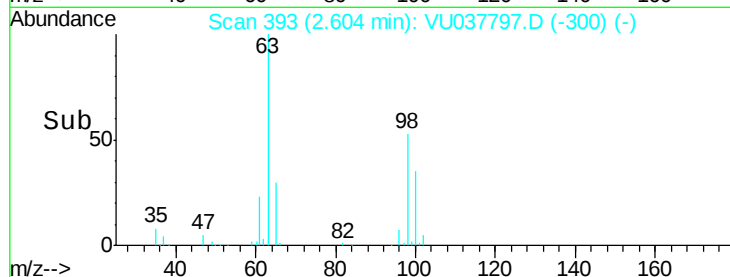
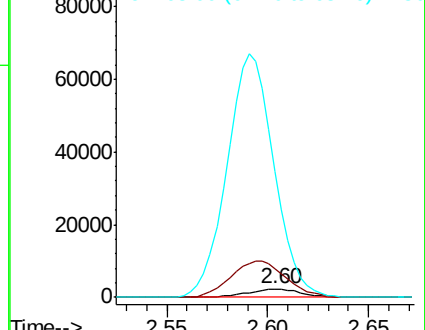
96 100

61 351.7 127.7 237.3#

63 1537.6 85.0 157.8#



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 1.210 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037797.D

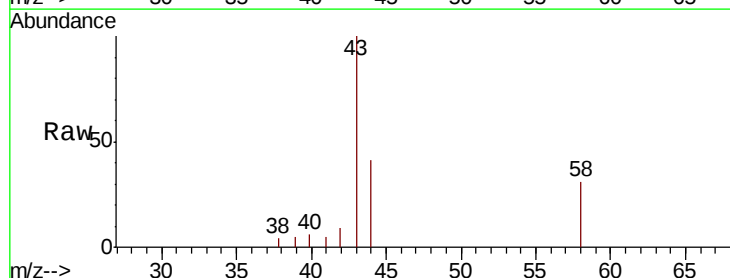
Acq: 18 Apr 2020 01:54

Tgt Ion: 43 Resp: 4580

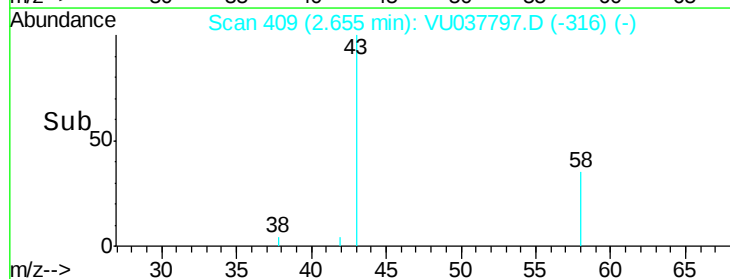
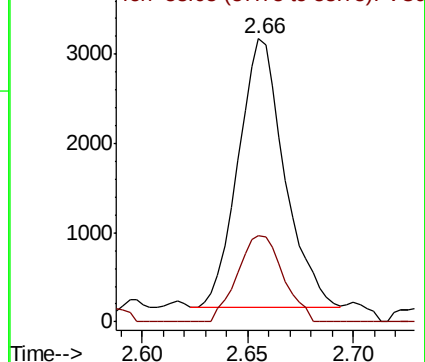
Ion Ratio Lower Upper

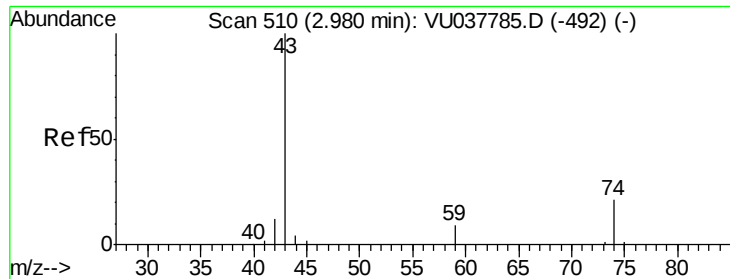
43 100

58 31.9 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU0  
Ion 58.05 (57.75 to 58.75): VU0





#15

Methyl Acetate

Concen: 0.988 ug/L

RT: 2.79 min Scan# 450

Delta R.T. -0.19 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

Instrument :

MSVOA\_U

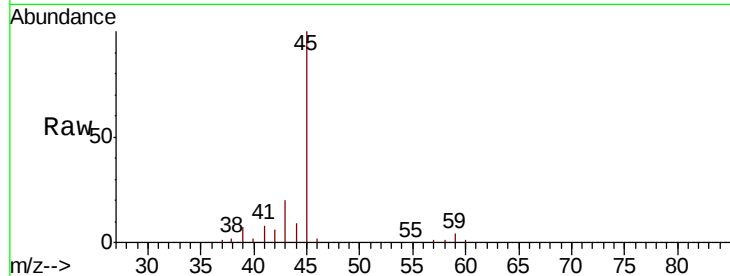
ClientSampleId :

Tot Ion: 43 Resp: 10400

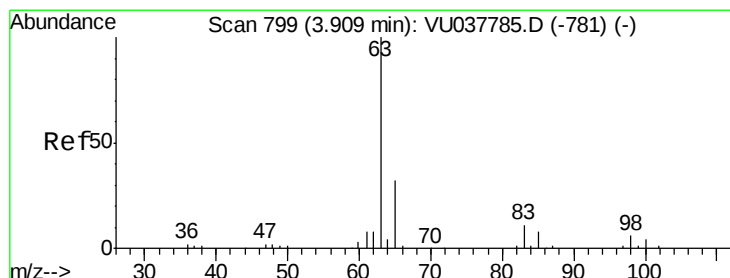
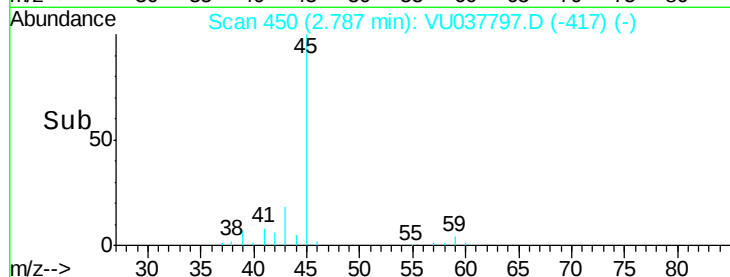
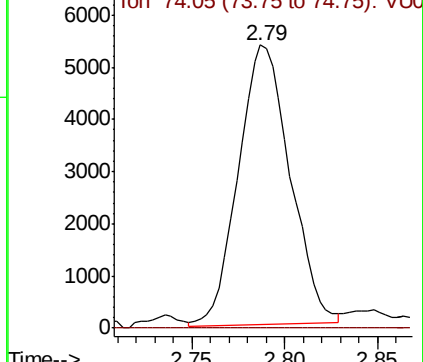
Ion Ratio Lower Upper

43 100

74 0.0 17.2 25.8#



Abundance Ion 43.05 (42.75 to 43.75): VU037797.D (-417) (-)



#19

1,1-Dichloroethane

Concen: 0.095 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

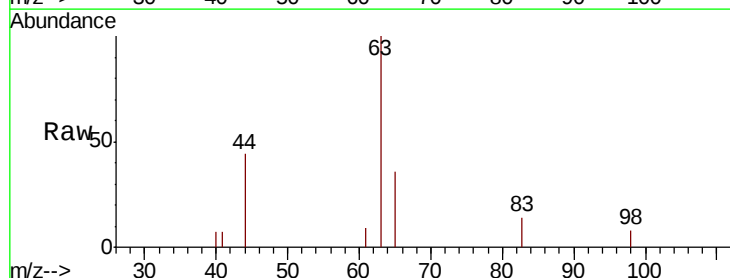
Tgt Ion: 63 Resp: 3795

Ion Ratio Lower Upper

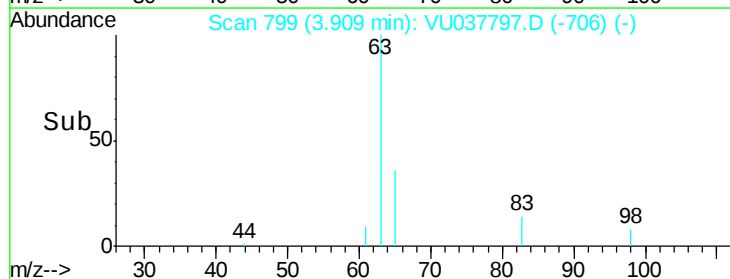
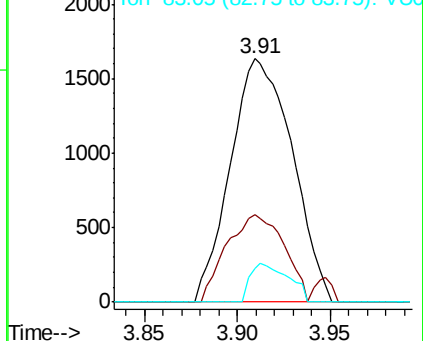
63 100

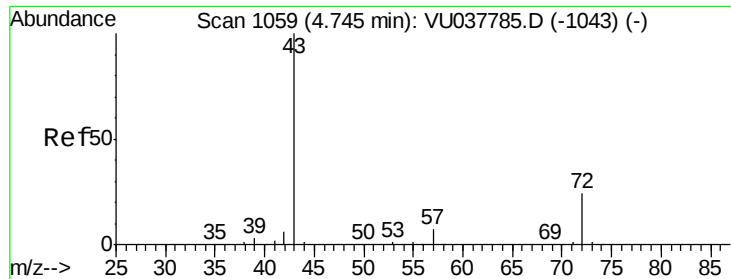
65 36.2 21.6 40.2

83 13.7 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VU037797.D (-706) (-)

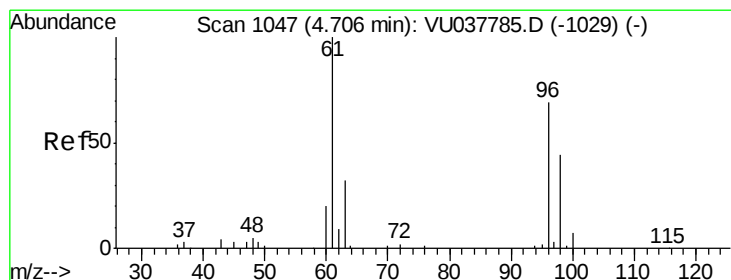
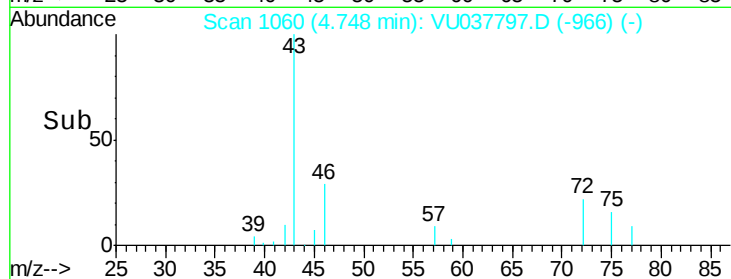
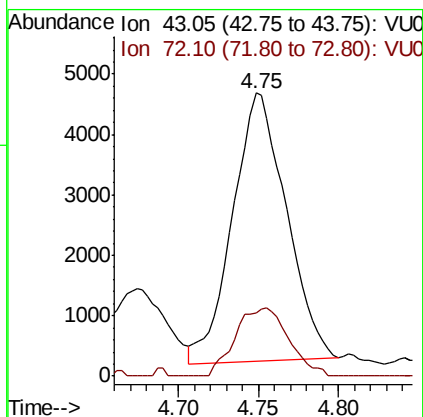
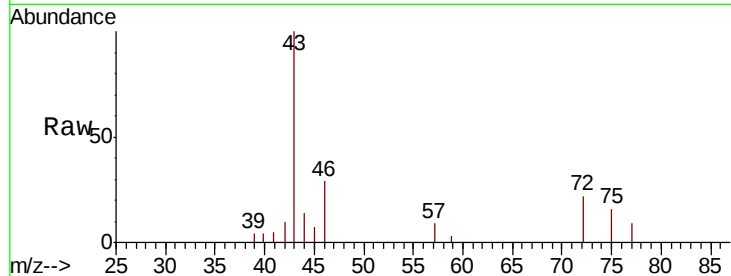




#21  
 2-Butanone  
 Concen: 1.485 ug/L  
 RT: 4.75 min Scan# 1060  
 Delta R.T. 0.00 min  
 Lab File: VU037797.D  
 Acq: 18 Apr 2020 01:54

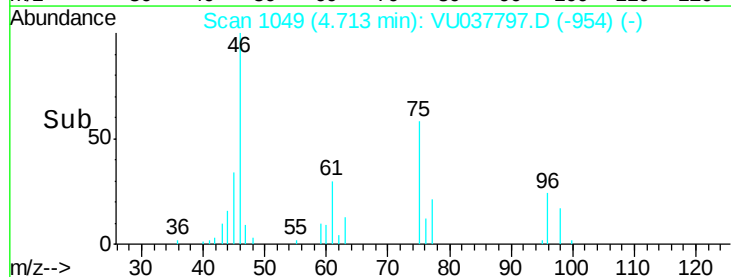
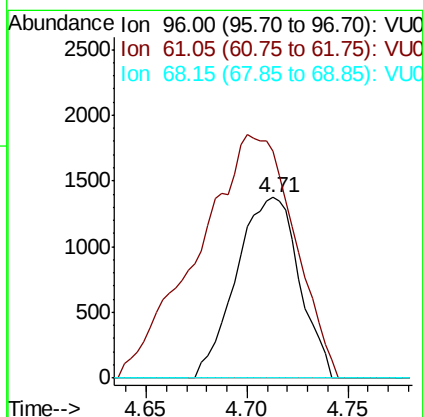
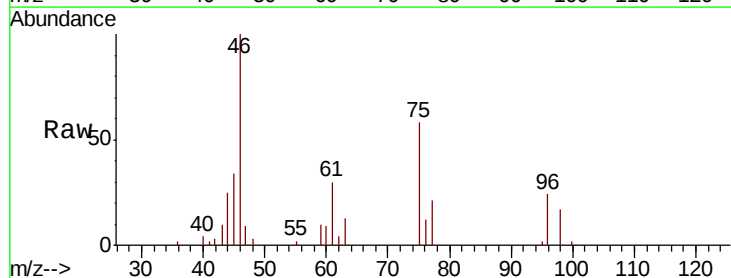
Instrument :  
 MSVOA\_U  
 ClientSampled :

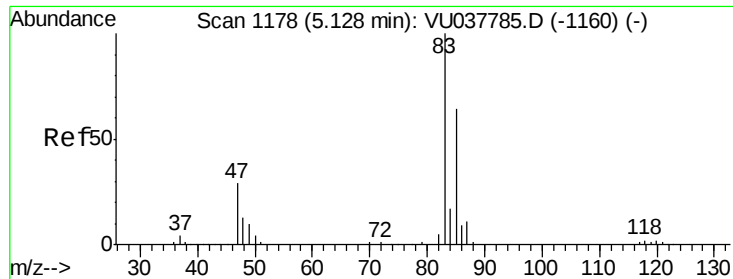
Tot Ion: 43 Resp: 10213  
 Ion Ratio Lower Upper  
 43 100  
 72 25.2 12.6 37.6



#22  
 cis-1,2-Dichloroethene  
 Concen: 0.134 ug/L  
 RT: 4.71 min Scan# 1049  
 Delta R.T. 0.01 min  
 Lab File: VU037797.D  
 Acq: 18 Apr 2020 01:54

Tgt Ion: 96 Resp: 2982  
 Ion Ratio Lower Upper  
 96 100  
 61 126.2 97.0 180.2  
 68 0.0 0.0 0.0

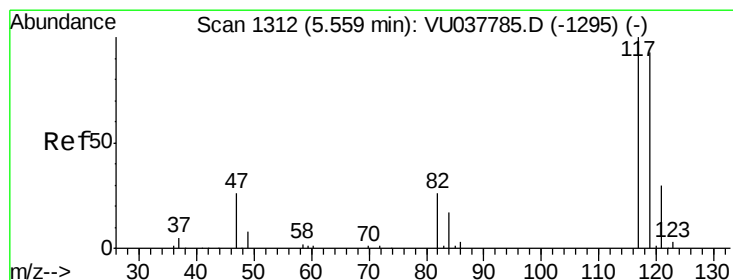
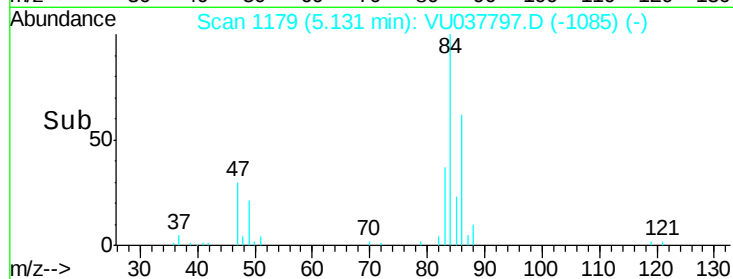
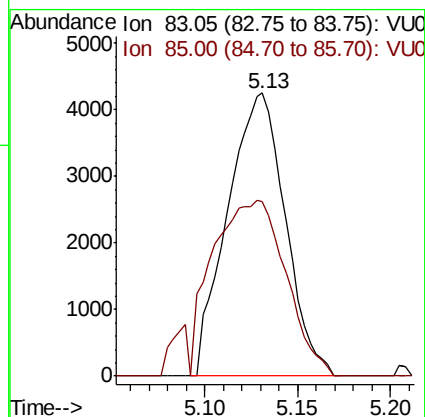
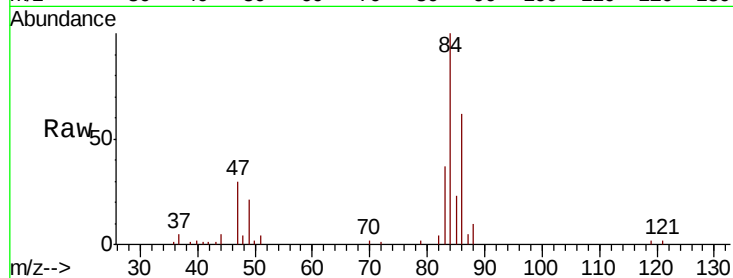




#25  
Chloroform  
Concen: 0.242 ug/L  
RT: 5.13 min Scan# 1179  
Delta R.T. 0.00 min  
Lab File: VU037797.D  
Acq: 18 Apr 2020 01:54

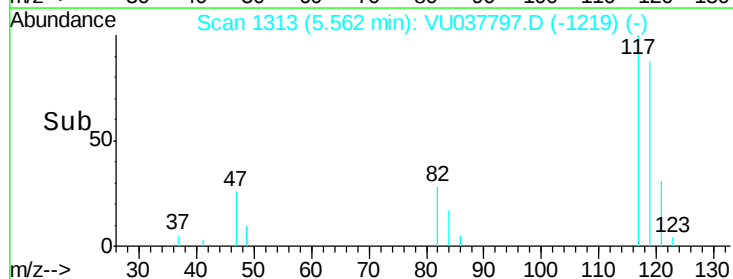
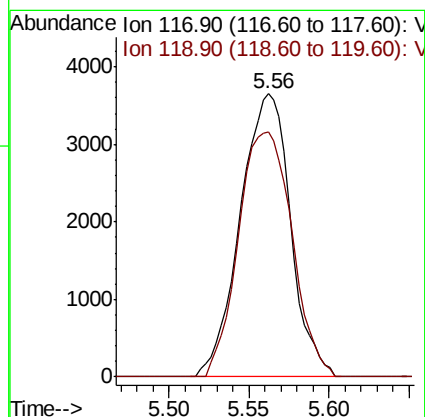
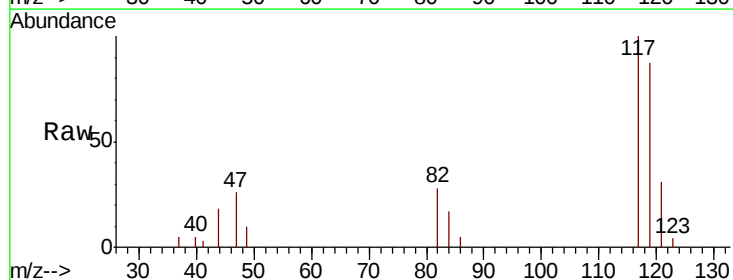
Instrument :  
MSVOA\_U  
ClientSampleId :

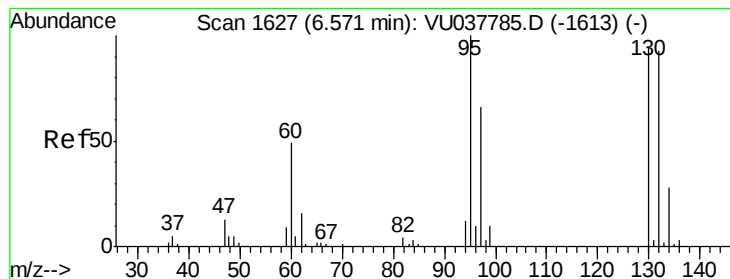
Tot Ion: 83 Resp: 9185  
Ion Ratio Lower Upper  
83 100  
85 61.6 44.9 83.3



#31  
Carbon tetrachloride  
Concen: 0.303 ug/L  
RT: 5.56 min Scan# 1313  
Delta R.T. 0.00 min  
Lab File: VU037797.D  
Acq: 18 Apr 2020 01:54

Tgt Ion: 117 Resp: 7858  
Ion Ratio Lower Upper  
117 100  
119 92.0 77.4 116.0





#34

Trichloroethene

Concen: 1.275 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 95 Resp: 27760

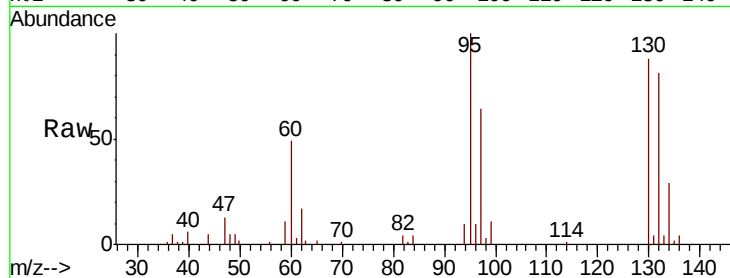
Ion Ratio Lower Upper

95 100

97 63.8 45.4 84.2

132 81.1 63.7 118.3

130 88.4 68.7 127.5

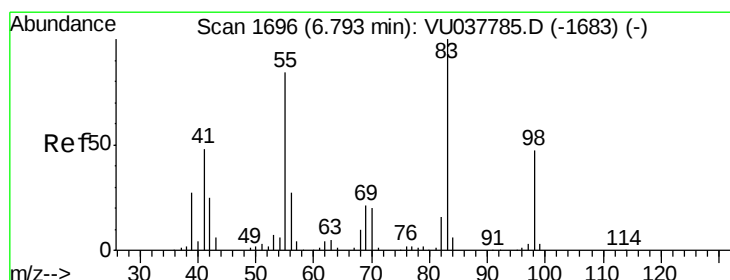
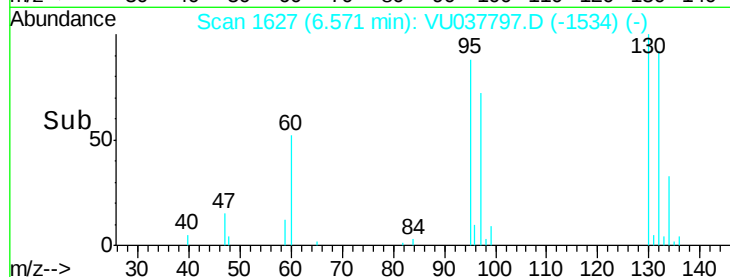
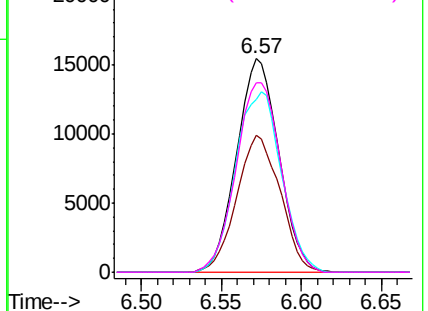


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.636 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.07 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

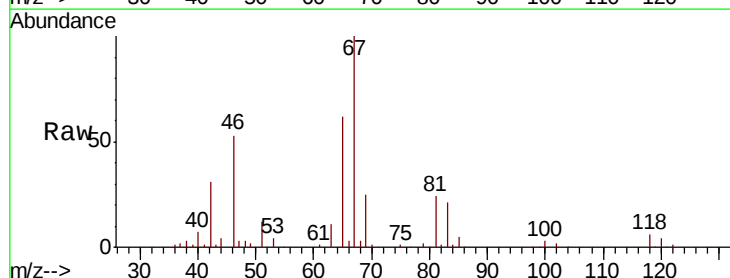
Tgt Ion: 83 Resp: 24269

Ion Ratio Lower Upper

83 100

55 0.2 65.5 98.3#

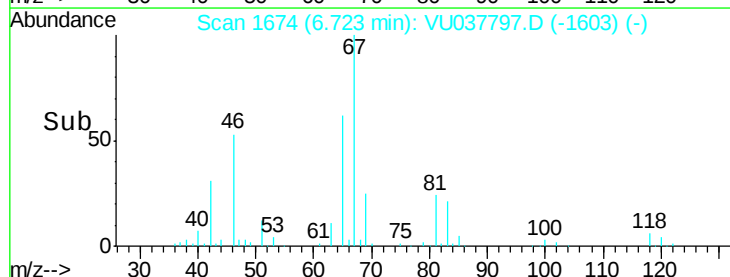
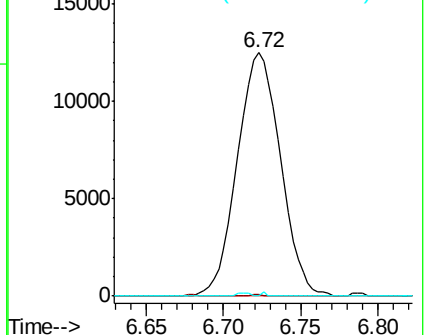
98 0.2 38.2 57.4#

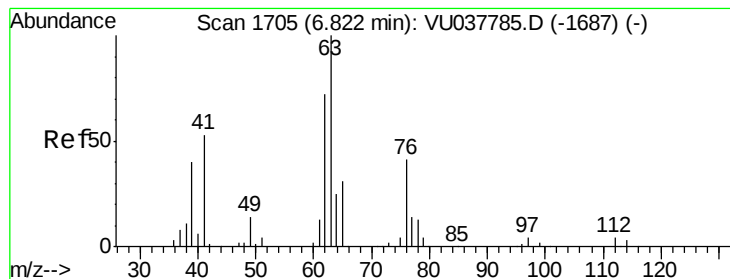


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.522 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

Instrument :

MSVOA\_U

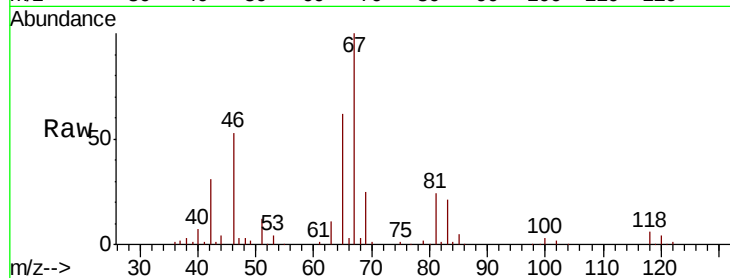
ClientSampleId :

Tot Ion: 63 Resp: 12252

Ion Ratio Lower Upper

63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VU037797.D (-1612) (-)

Ion 112.10 (111.80 to 112.80): VU037797.D (-1612) (-)

6.72

6000

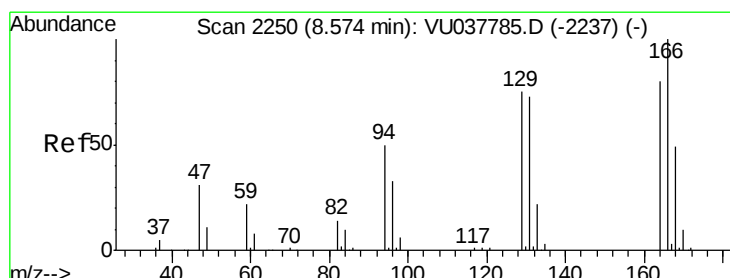
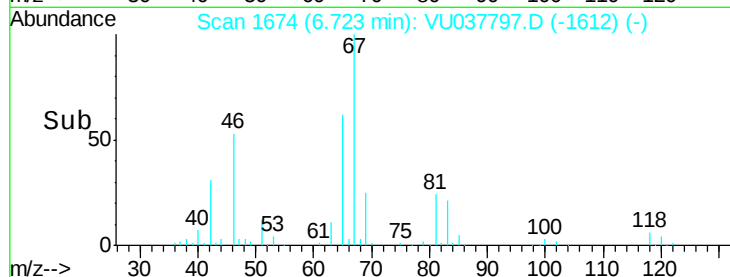
4000

2000

0

6.65 6.70 6.75

Time-->



#47

Tetrachloroethene

Concen: 1.770 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

Tgt Ion:164 Resp: 27683

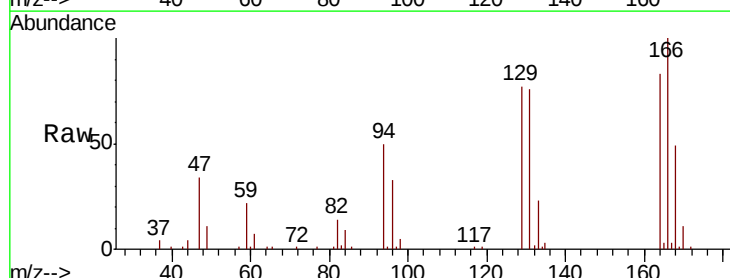
Ion Ratio Lower Upper

164 100

129 92.4 68.1 126.5

131 91.9 65.9 122.5

166 120.3 89.7 166.7



Abundance Ion 163.90 (163.60 to 164.60): VU037797.D (-2157) (-)

Ion 128.95 (128.65 to 129.65): VU037797.D (-2157) (-)

Ion 130.95 (130.65 to 131.65): VU037797.D (-2157) (-)

Ion 165.90 (165.60 to 166.60): VU037797.D (-2157) (-)

8.57

30000

25000

20000

15000

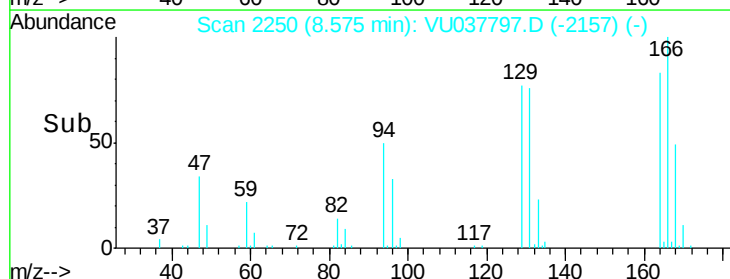
10000

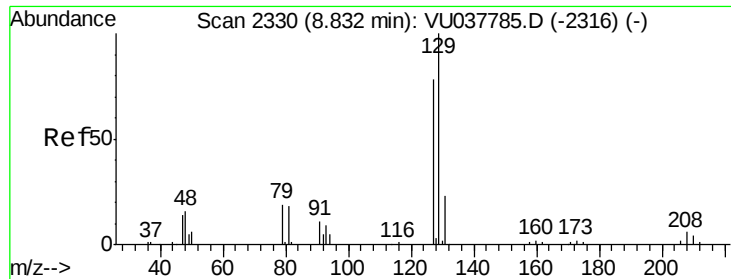
5000

0

8.50 8.55 8.60

Time-->





#49

Dibromochloromethane

Concen: 1.430 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU037797.D

Acq: 18 Apr 2020 01:54

Instrument :

MSVOA\_U

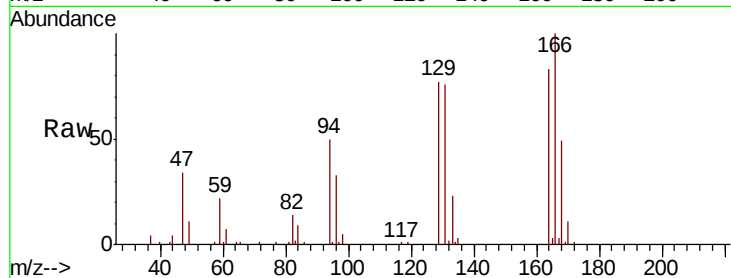
ClientSampled :

Tot Ion:129 Resp: 25866

Ion Ratio Lower Upper

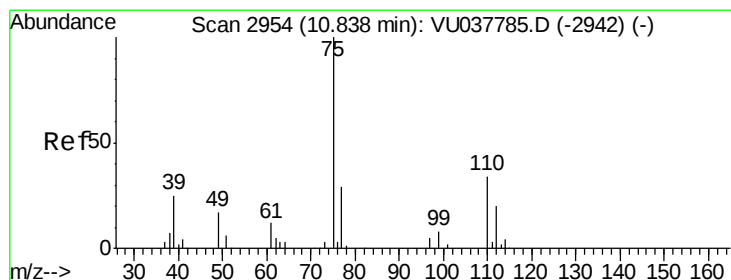
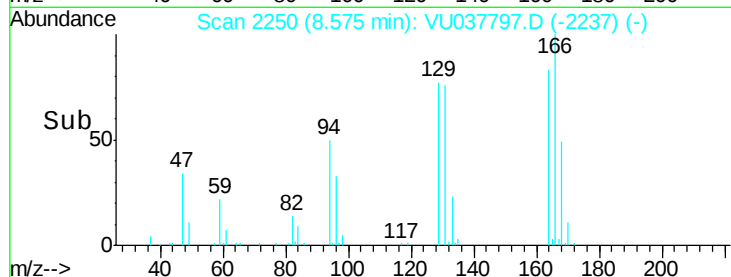
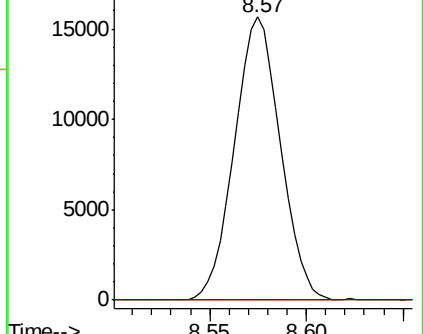
129 100

127 0.0 53.3 98.9#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#59

1,2,3-Trichloropropane

Concen: 1.136 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.99 min

Lab File: VU037797.D

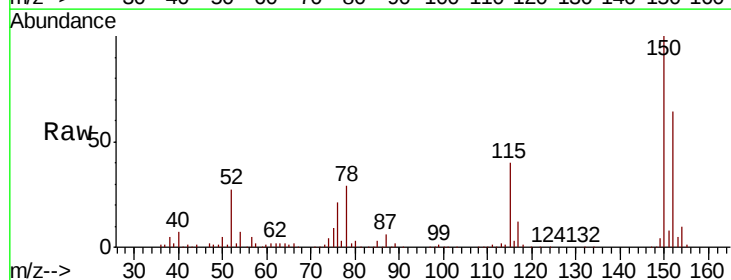
Acq: 18 Apr 2020 01:54

Tgt Ion: 75 Resp: 17471

Ion Ratio Lower Upper

75 100

77 39.1 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

