

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU033020\  
 Data File : VU037480.D  
 Acq On : 31 Mar 2020 00:20  
 Operator : JC/MD  
 Sample : L2002-10DL 40X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 31 04:04:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR032820WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Mar 31 04:01:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 91640    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 85582    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 40385    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 27553    | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 81.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 26127    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 103.20% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 42874    | 3.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 65.00%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 105720   | 57.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.68% |
| 24) Chloroform-d               | 5.10   | 84    | 59067    | 4.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 34257    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.20%  |
| 32) Benzene-d6                 | 5.76   | 84    | 117836   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 40571    | 4.96     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.20%  |
| 41) Toluene-d8                 | 7.93   | 98    | 106143   | 4.53     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.60%  |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 17826    | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 92.60%  |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 86728    | 56.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 34194    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21  | 152   | 39012    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.20%  |

## Target Compounds

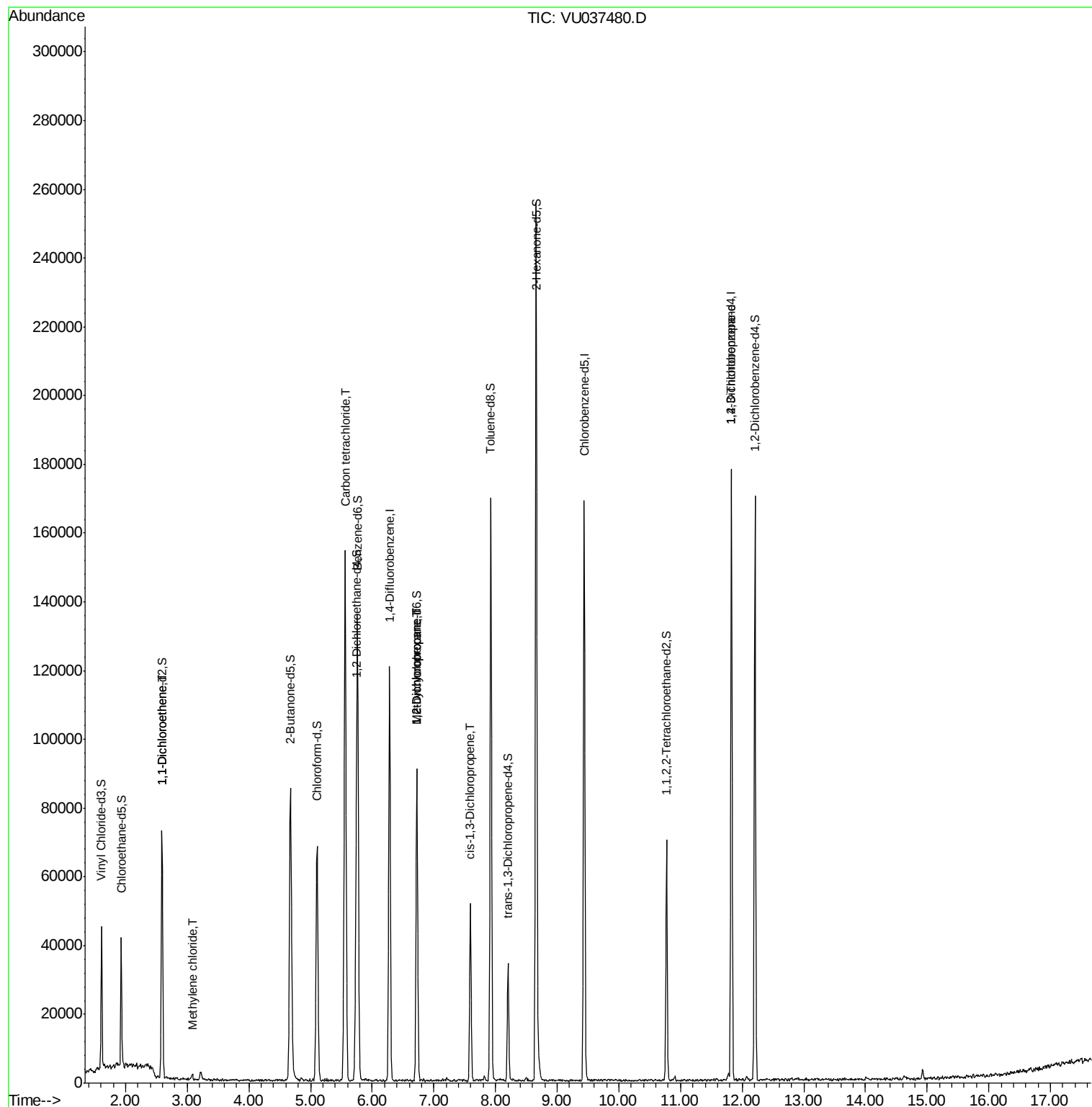
|                             |       |     |       |              | Ovalue |
|-----------------------------|-------|-----|-------|--------------|--------|
| 12) 1,1-Dichloroethene      | 2.59  | 96  | 403   | 0.067 ug/L # | 1      |
| 16) Methylene chloride      | 3.08  | 84  | 786   | 0.117 ug/L   | 83     |
| 31) Carbon tetrachloride    | 5.56  | 117 | 99674 | 10.732 ug/L  | 100    |
| 35) Methylcyclohexane       | 6.72  | 83  | 9008  | 0.789 ug/L # | 20     |
| 37) 1,2-Dichloropropane     | 6.72  | 63  | 4684  | 0.715 ug/L # | 88     |
| 39) cis-1,3-Dichloropropene | 7.59  | 75  | 1148  | 0.107 ug/L # | 33     |
| 59) 1,2,3-Trichloropropane  | 11.83 | 75  | 6256  | 1.373 ug/L   | 88     |

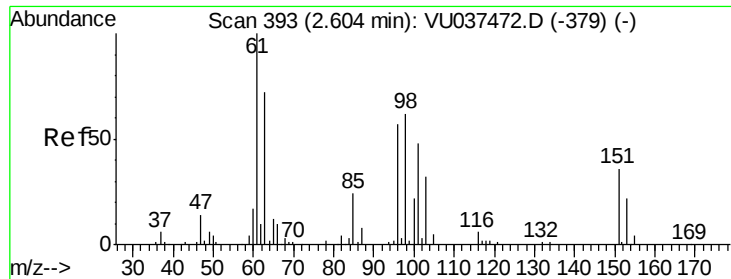
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration

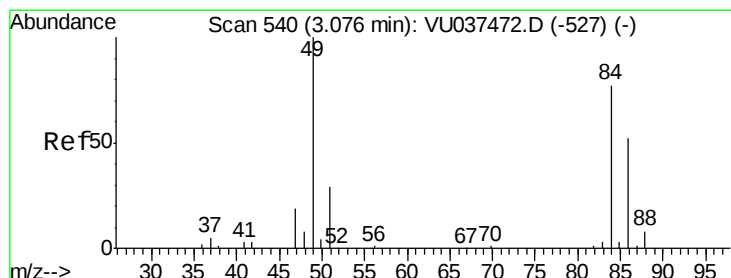
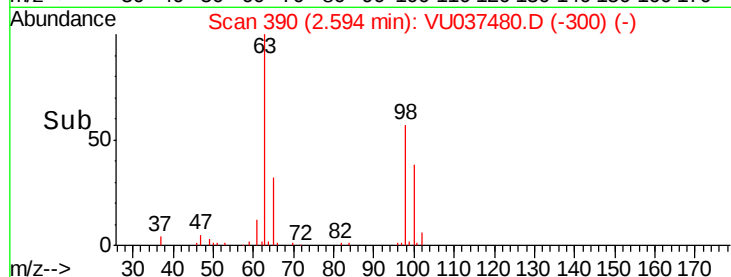
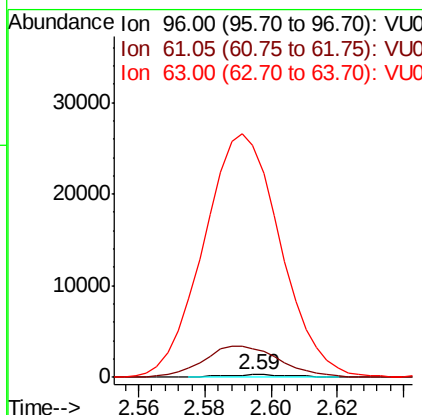
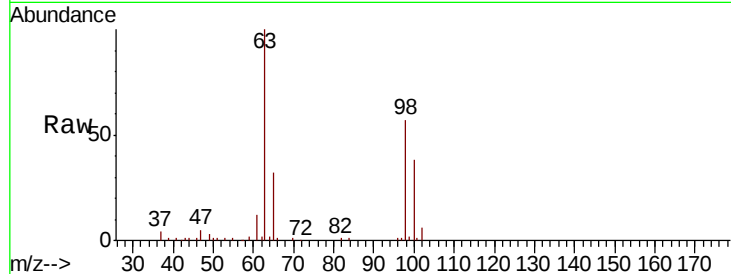




#12  
 1,1-Dichloroethene  
 Concen: 0.067 ug/L  
 RT: 2.59 min Scan# 390  
 Delta R.T. -0.01 min  
 Lab File: VU037480.D  
 Acq: 31 Mar 2020 00:20

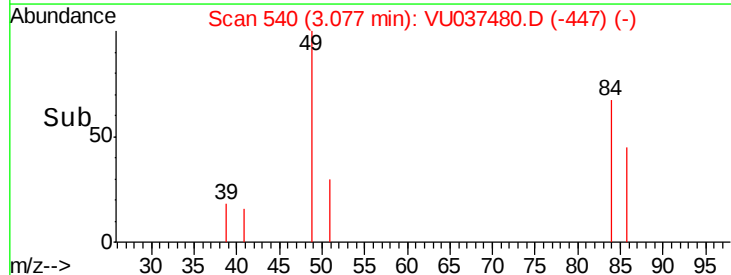
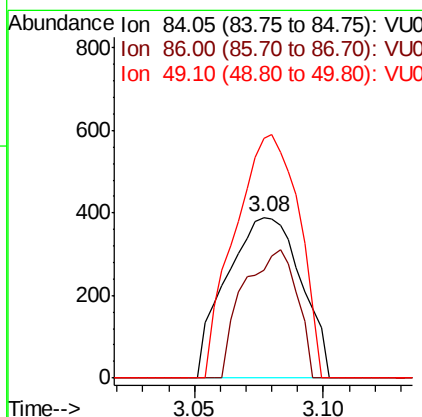
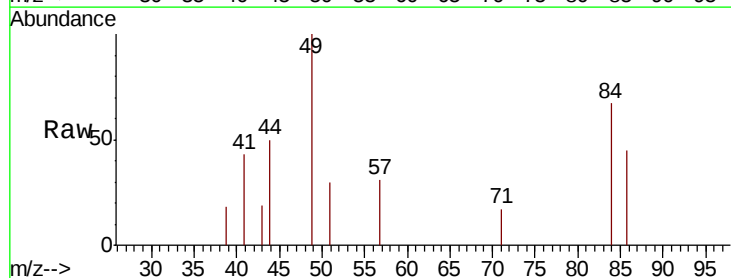
Instrument :  
 MSVOA\_U  
 ClientSampleId :

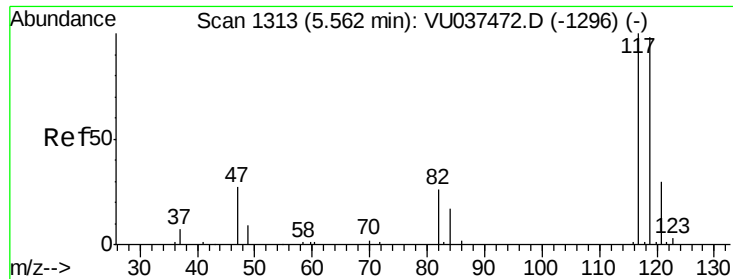
Tot Ion: 96 Resp: 403  
 Ion Ratio Lower Upper  
 96 100  
 61 1204.6 125.4 232.8#  
 63 9766.8 90.9 168.7#



#16  
 Methylene chloride  
 Concen: 0.117 ug/L  
 RT: 3.08 min Scan# 540  
 Delta R.T. 0.00 min  
 Lab File: VU037480.D  
 Acq: 31 Mar 2020 00:20

Tgt Ion: 84 Resp: 786  
 Ion Ratio Lower Upper  
 84 100  
 86 67.2 43.6 81.0  
 49 149.0 86.4 160.4





#31

Carbon tetrachloride

Concen: 10.732 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037480.D

Acq: 31 Mar 2020 00:20

Instrument :

MSVOA\_U

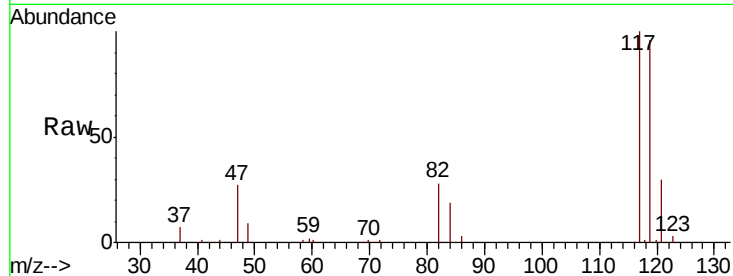
ClientSampled :

Tot Ion:117 Resp: 99674

Ion Ratio Lower Upper

117 100

119 96.8 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.56

50000

40000

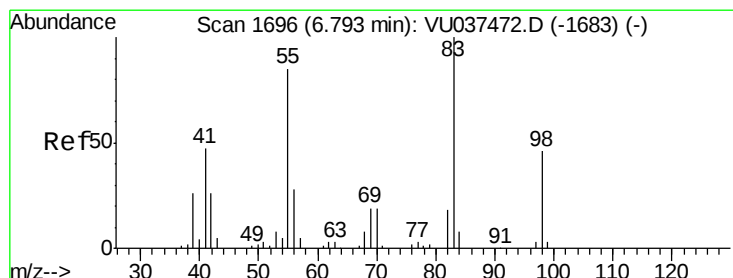
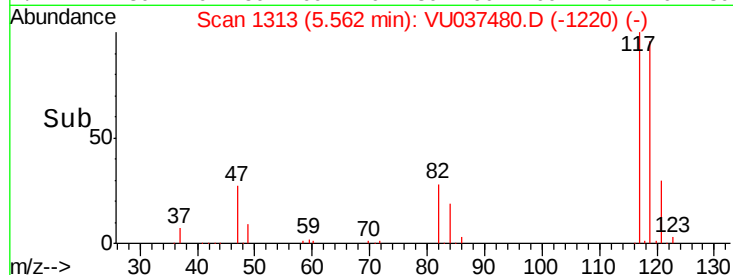
30000

20000

10000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#35

Methylcyclohexane

Concen: 0.789 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.07 min

Lab File: VU037480.D

Acq: 31 Mar 2020 00:20

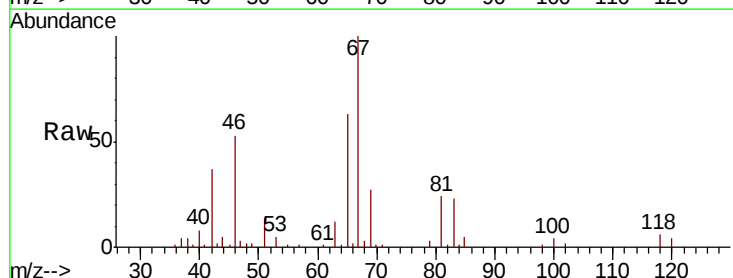
Tgt Ion: 83 Resp: 9008

Ion Ratio Lower Upper

83 100

55 3.1 64.2 96.4#

98 1.6 36.3 54.5#



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

6.72

6000

5000

4000

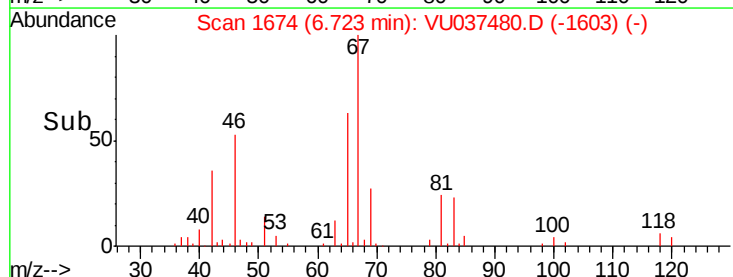
3000

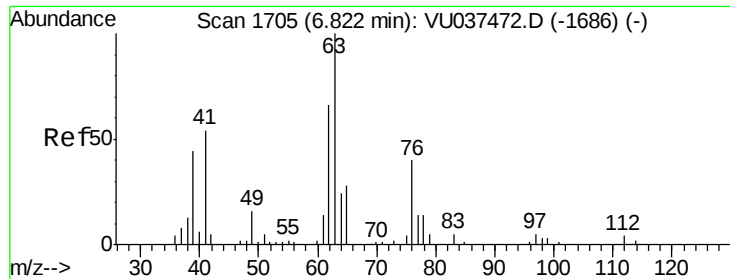
2000

1000

0

Time--> 6.65 6.70 6.75

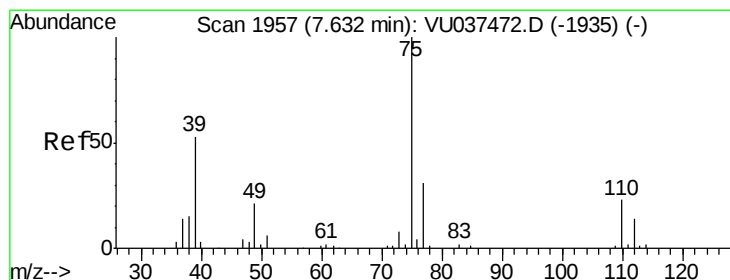
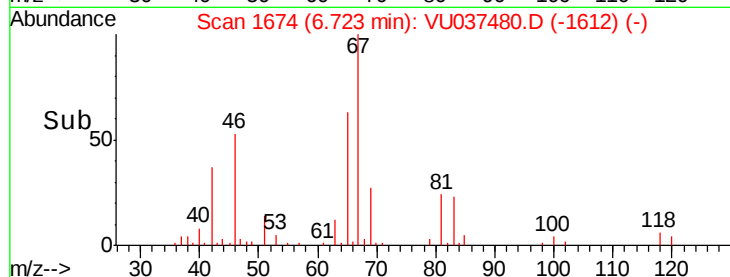
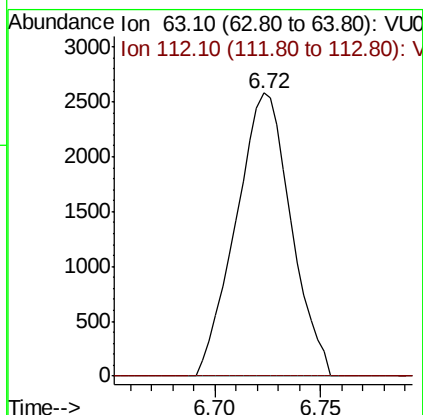
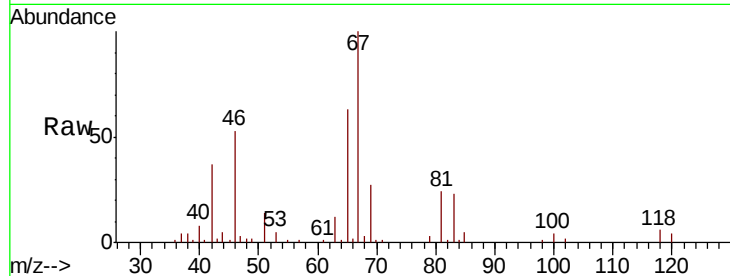




#37  
 1,2-Dichloropropane  
 Concen: 0.715 ug/L  
 RT: 6.72 min Scan# 1674  
 Delta R.T. -0.10 min  
 Lab File: VU037480.D  
 Acq: 31 Mar 2020 00:20

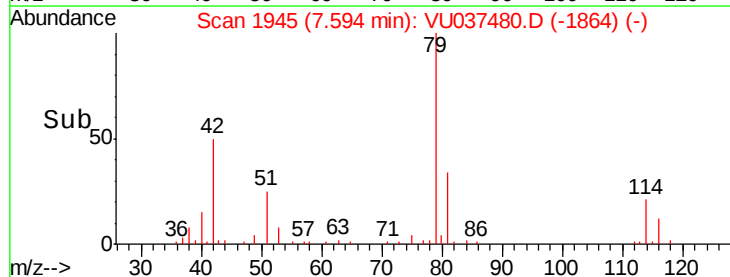
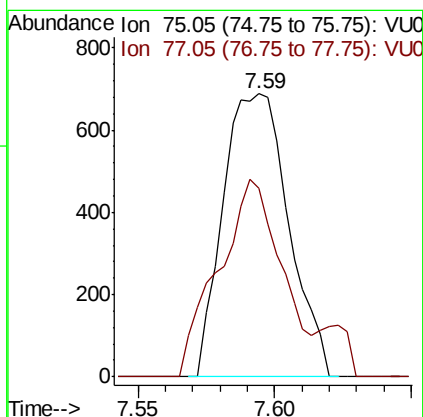
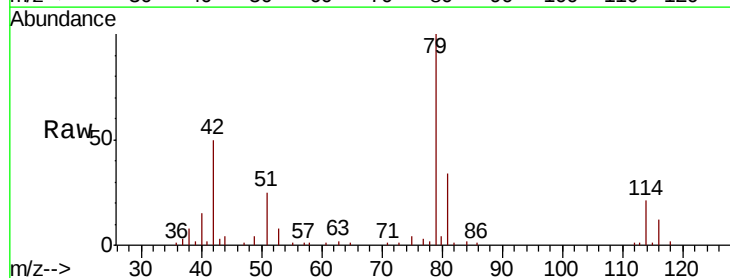
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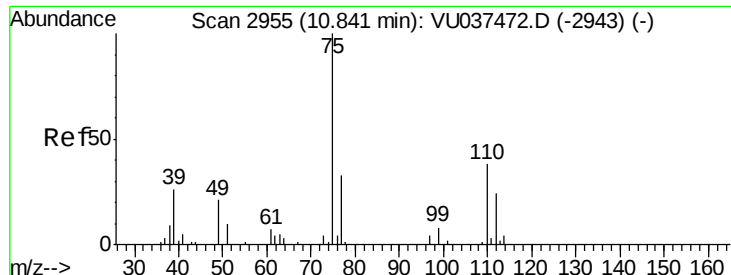
Tot Ion: 63 Resp: 4684  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.0 4.6#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.107 ug/L  
 RT: 7.59 min Scan# 1945  
 Delta R.T. -0.04 min  
 Lab File: VU037480.D  
 Acq: 31 Mar 2020 00:20

Tgt Ion: 75 Resp: 1148  
 Ion Ratio Lower Upper  
 75 100  
 77 66.7 21.1 39.3#





#59

1,2,3-Trichloropropane

Concen: 1.373 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.98 min

Lab File: VU037480.D

Acq: 31 Mar 2020 00:20

Instrument :

MSVOA\_U

ClientSampleId :

Tot Ion: 75 Resp: 6256

Ion Ratio Lower Upper

75 100

77 41.0 27.4 41.2

