

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112020\  
 Data File : VU041369.D  
 Acq On : 20 Nov 2020 16:03  
 Operator : SY/MD  
 Sample : L4849-01  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 H4392

Quant Time: Nov 21 05:17:50 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Nov 21 02:42:19 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 66201    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 65595    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 27405    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 17512    | 3.60     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 72.00%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 16698    | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 80.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.57   | 63    | 30436    | 3.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 60.60%  |
| 20) 2-Butanone-d5              | 4.64   | 46    | 78400    | 39.05    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 78.10%  |
| 24) Chloroform-d               | 5.08   | 84    | 49799    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 30883    | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 86905    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 31387    | 5.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.00% |
| 41) Toluene-d8                 | 7.90   | 98    | 71874    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 11261    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 53385    | 38.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 76.22%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 24859    | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 84.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 27574    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 103.20% |

## Target Compounds

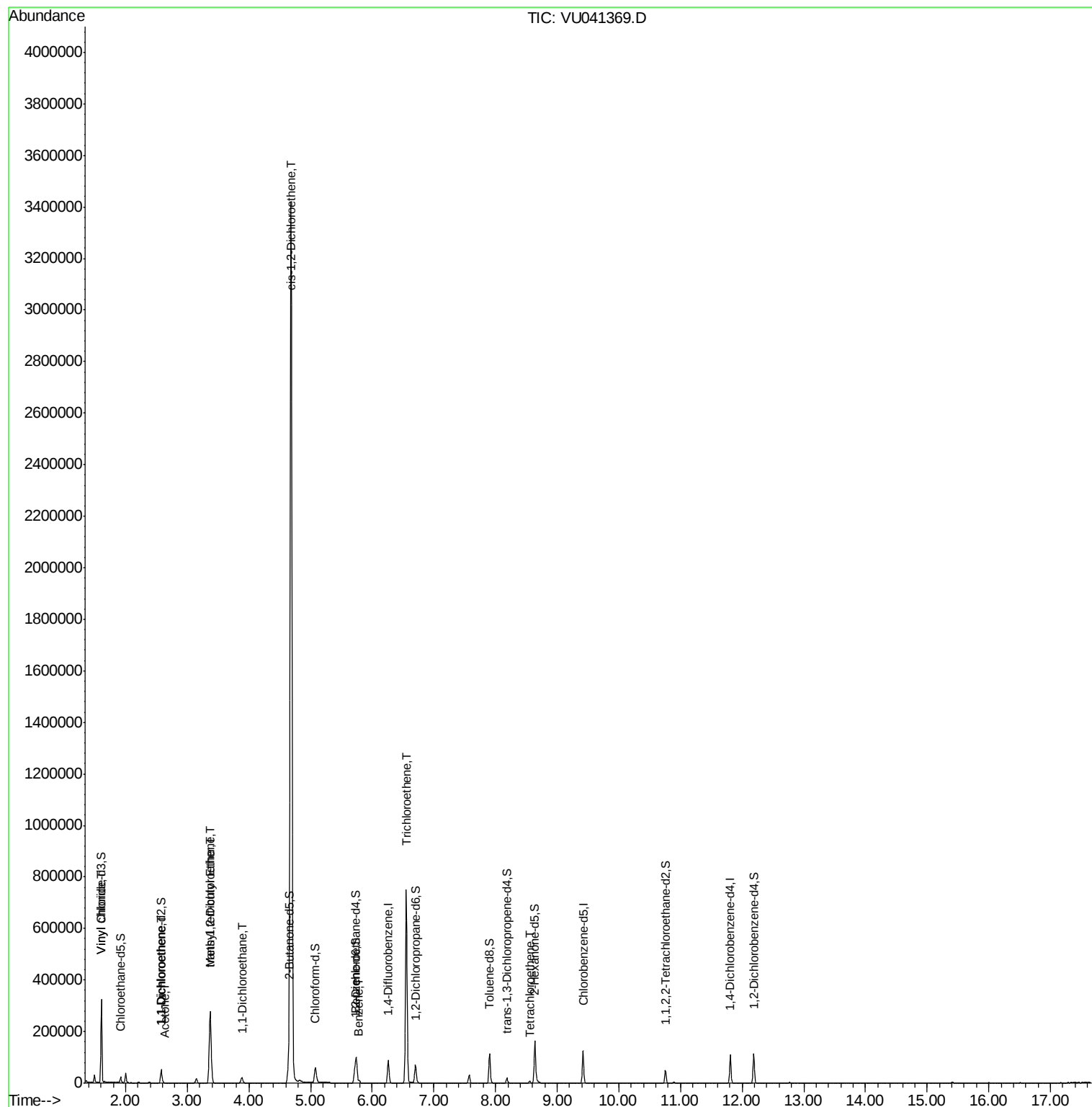
| Target Compounds             | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|------------------------------|------|------|----------|---------|--------|--------|
| 5) Vinyl chloride            | 1.61 | 62   | 156359   | 27.207  | ug/L   | 99     |
| 12) 1,1-Dichloroethene       | 2.59 | 96   | 3196     | 0.742   | ug/L # | 1      |
| 13) Acetone                  | 2.64 | 43   | 2012     | 1.511   | ug/L   | 86     |
| 17) Methyl tert-butyl Ether  | 3.38 | 73   | 145458   | 12.329  | ug/L   | 99     |
| 18) trans-1,2-Dichloroethene | 3.37 | 96   | 61898    | 14.748  | ug/L   | 97     |
| 19) 1,1-Dichloroethane       | 3.89 | 63   | 25198    | 2.685   | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene   | 4.68 | 96   | 1631157  | 344.122 | ug/L   | 97     |
| 33) Benzene                  | 5.79 | 78   | 8584     | 0.483   | ug/L   | 100    |
| 34) Trichloroethene          | 6.55 | 95   | 252118   | 52.478  | ug/L   | 98     |
| 47) Tetrachloroethene        | 8.56 | 164  | 1609     | 0.453   | ug/L   | 94     |

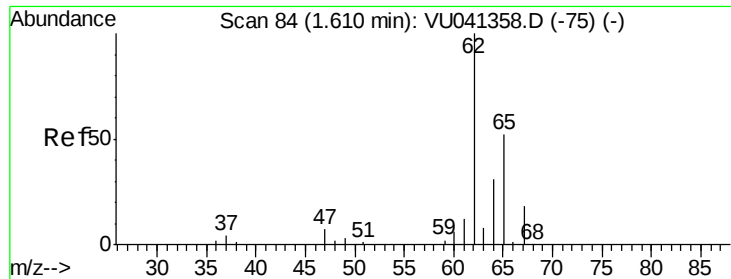
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU112020\  
Data File : VU041369.D  
Acq On : 20 Nov 2020 16:03  
Operator : SY/MD  
Sample : L4849-01  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Quant Time: Nov 21 05:17:50 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR111620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Sat Nov 21 02:42:19 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 27.207 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041369.D

Acq: 20 Nov 2020 16:03

Instrument :

MSVOA\_U

ClientSampled :

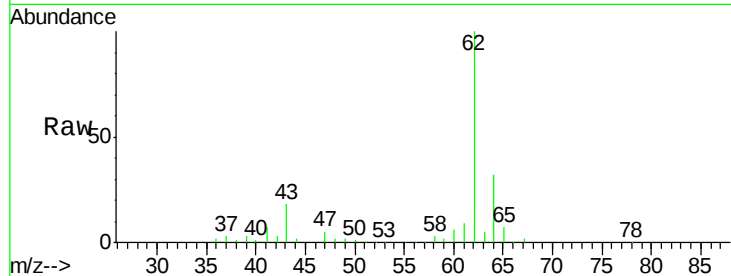
H4392

Tot Ion: 62 Resp: 156359

Ion Ratio Lower Upper

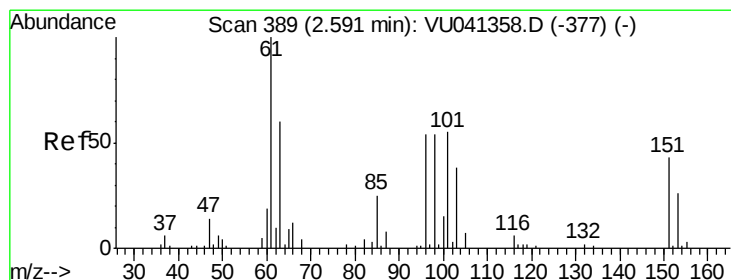
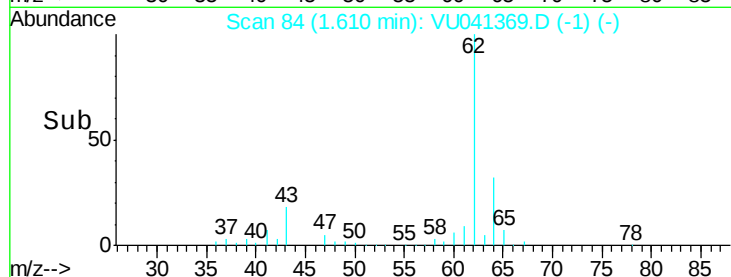
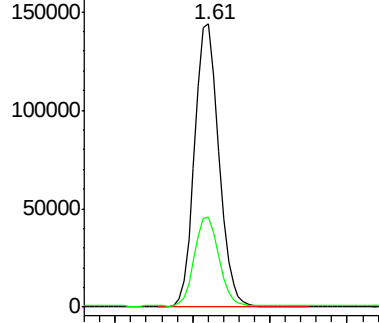
62 100

64 32.0 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#12

1,1-Dichloroethene

Concen: 0.742 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041369.D

Acq: 20 Nov 2020 16:03

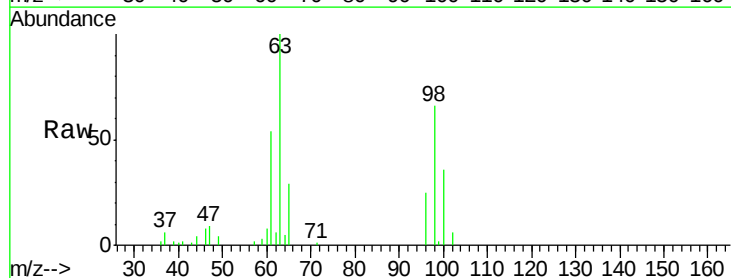
Tgt Ion: 96 Resp: 3196

Ion Ratio Lower Upper

96 100

61 217.2 134.3 249.5

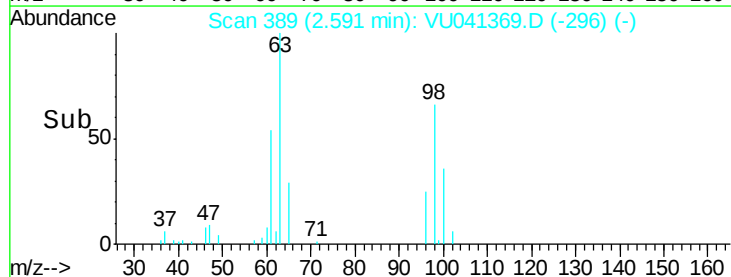
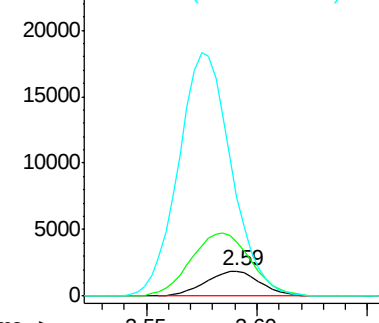
63 399.0 95.0 176.4#

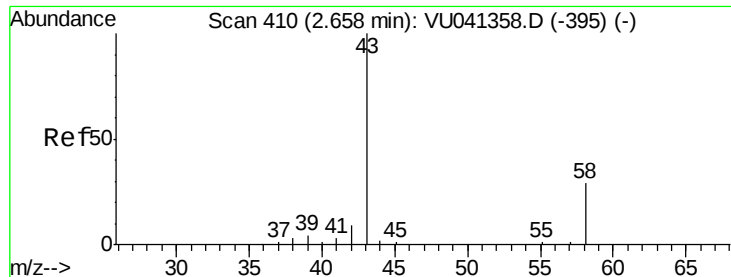


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.511 ug/L

RT: 2.64 min Scan# 404

Delta R.T. -0.02 min

Lab File: VU041369.D

Acq: 20 Nov 2020 16:03

Instrument :

MSVOA\_U

ClientSampled :

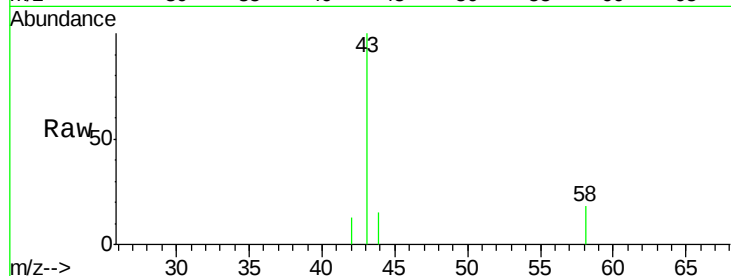
H4392

Tot Ion: 43 Resp: 2012

Ion Ratio Lower Upper

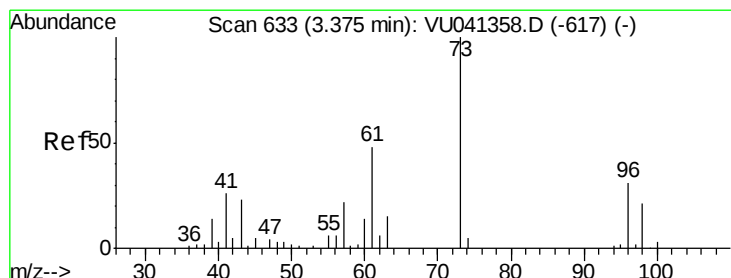
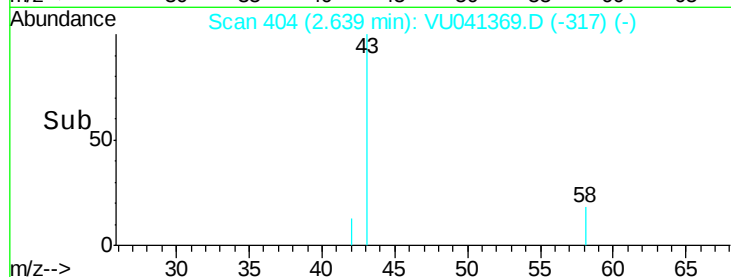
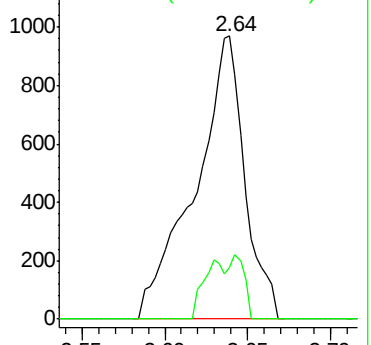
43 100

58 7.0 0.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#17

Methyl tert-butyl Ether

Concen: 12.329 ug/L

RT: 3.38 min Scan# 634

Delta R.T. 0.00 min

Lab File: VU041369.D

Acq: 20 Nov 2020 16:03

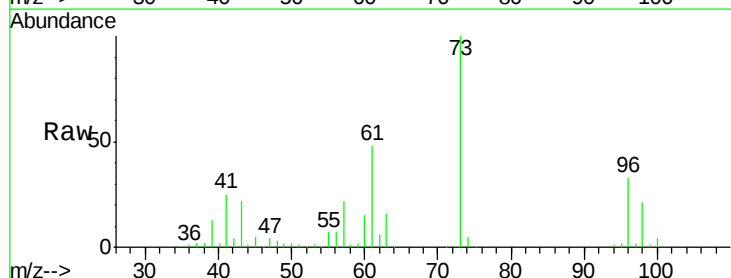
Tgt Ion: 73 Resp: 145458

Ion Ratio Lower Upper

73 100

43 22.6 18.5 27.7

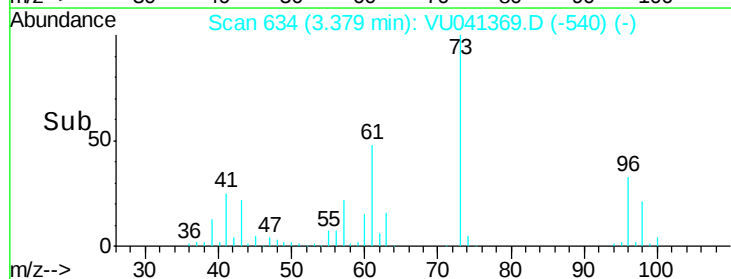
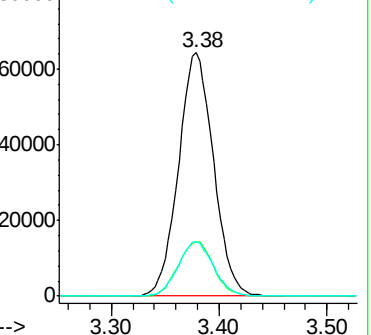
57 22.7 18.4 27.6

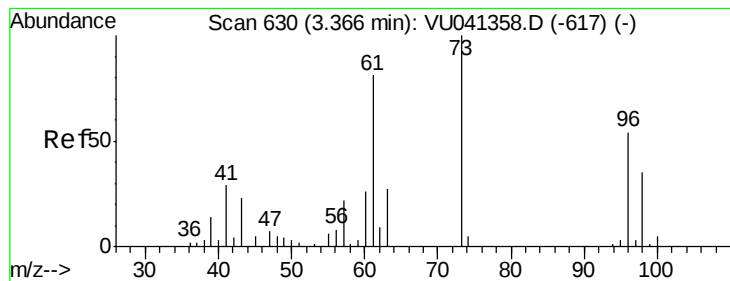


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 14.748 ug/L

RT: 3.37 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU041369.D

Acq: 20 Nov 2020 16:03

Instrument :

MSVOA\_U

ClientSampled :

H4392

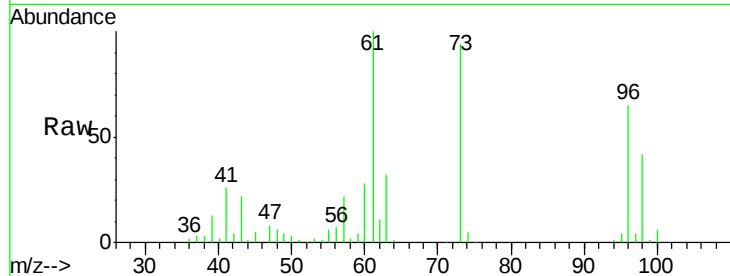
Tot Ion: 96 Resp: 61898

Ion Ratio Lower Upper

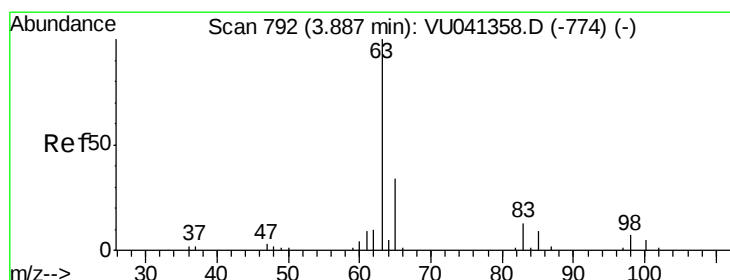
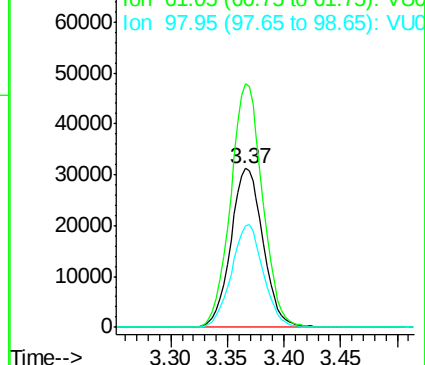
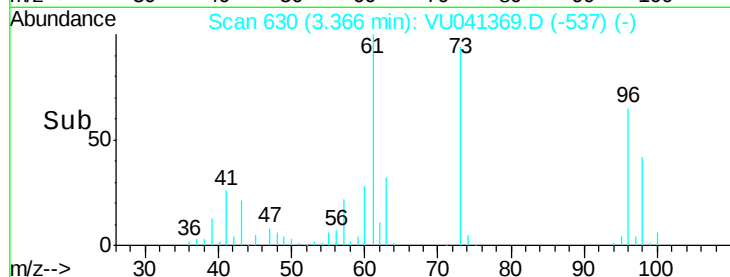
96 100

61 153.3 110.9 205.9

98 64.1 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU041369.D (-537) (-)



#19

1,1-Dichloroethane

Concen: 2.685 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.00 min

Lab File: VU041369.D

Acq: 20 Nov 2020 16:03

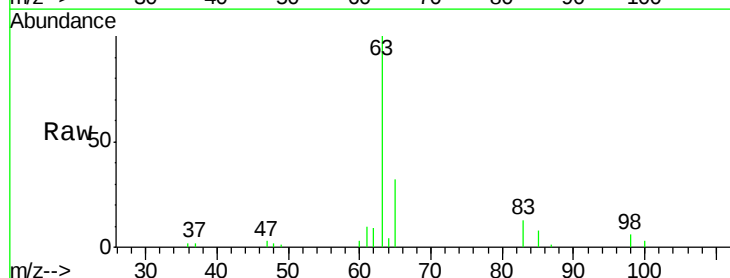
Tgt Ion: 63 Resp: 25198

Ion Ratio Lower Upper

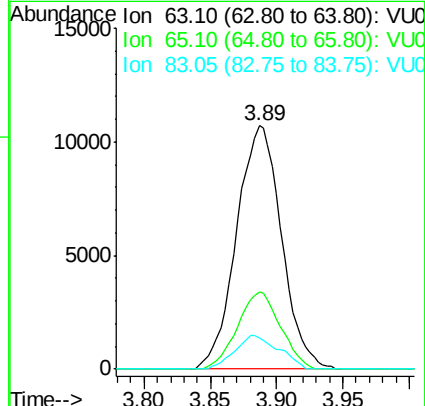
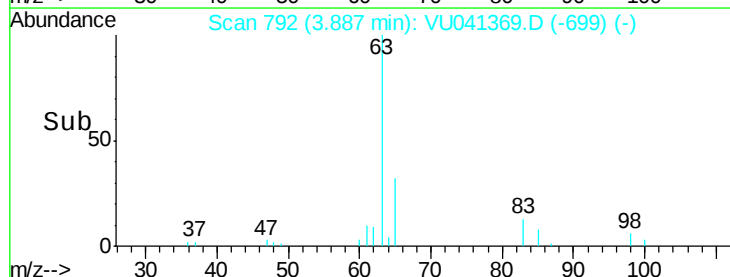
63 100

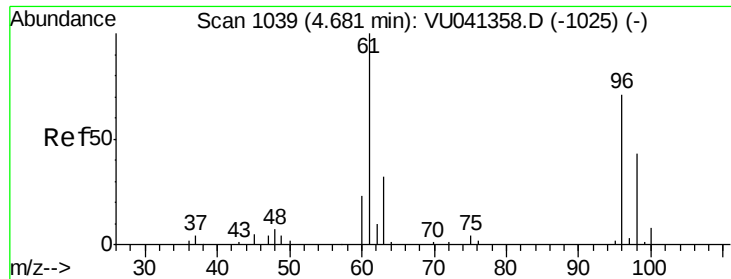
65 31.5 21.3 39.6

83 12.8 8.8 16.3



Abundance Ion 63.10 (62.80 to 63.80): VU041369.D (-699) (-)

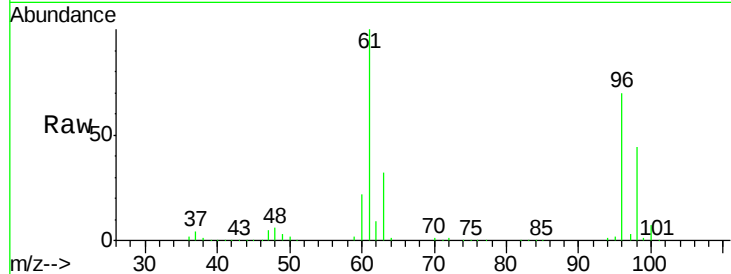




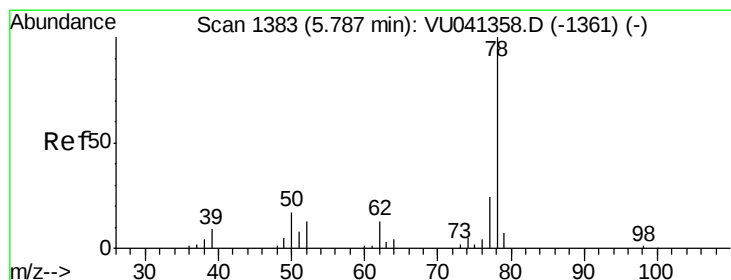
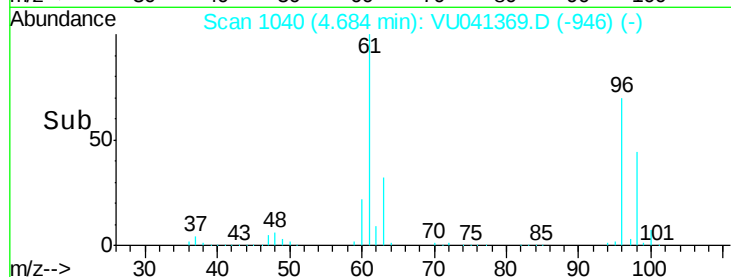
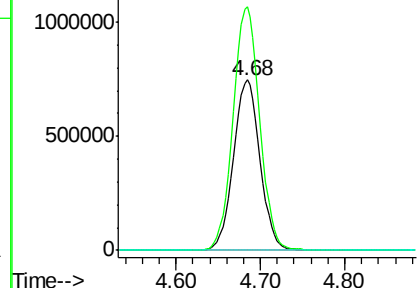
#22  
 cis-1,2-Dichloroethene  
 Concen: 344.122 ug/L  
 RT: 4.68 min Scan# 1040  
 Delta R.T. 0.00 min  
 Lab File: VU041369.D  
 Acq: 20 Nov 2020 16:03

Instrument :  
 MSVOA\_U  
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 H4392

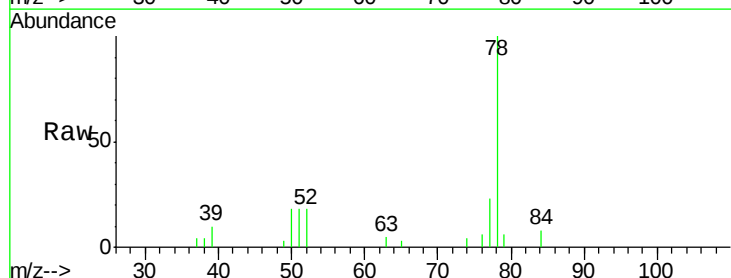
Tot Ion: 96 Resp: 1631157  
 Ion Ratio Lower Upper  
 96 100  
 61 142.9 97.2 180.4  
 68 0.0 0.0 0.0



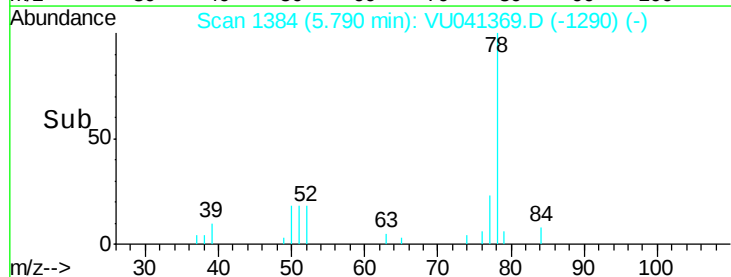
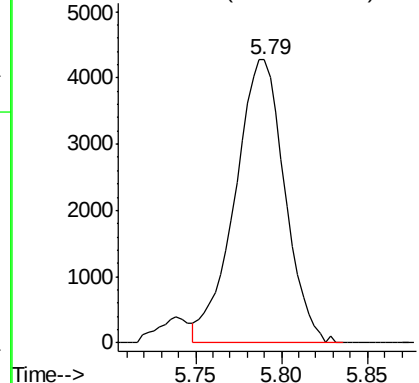
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0

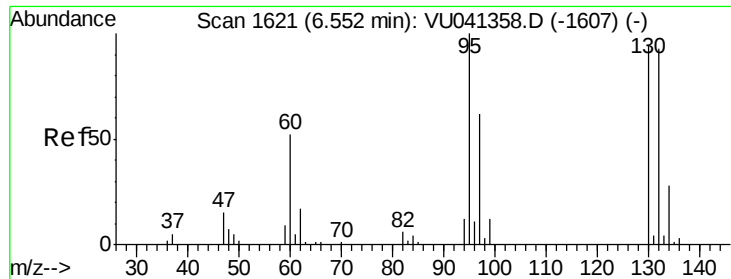


#33  
 Benzene  
 Concen: 0.483 ug/L  
 RT: 5.79 min Scan# 1384  
 Delta R.T. 0.00 min  
 Lab File: VU041369.D  
 Acq: 20 Nov 2020 16:03  
 Tgt Ion: 78 Resp: 8584



Abundance Ion 78.10 (77.80 to 78.80): VU0

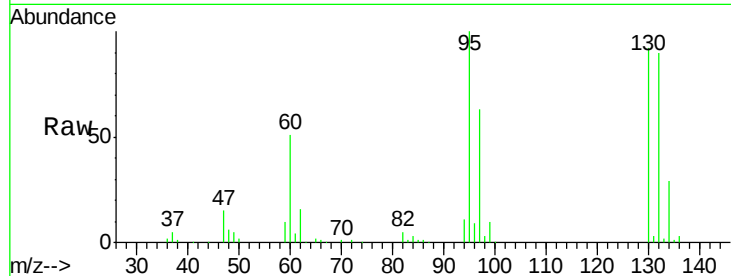




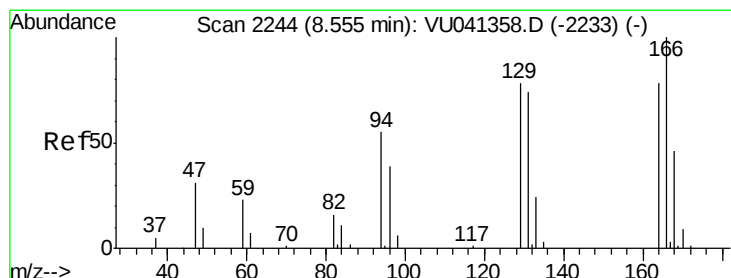
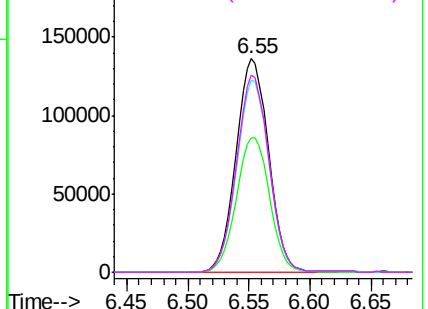
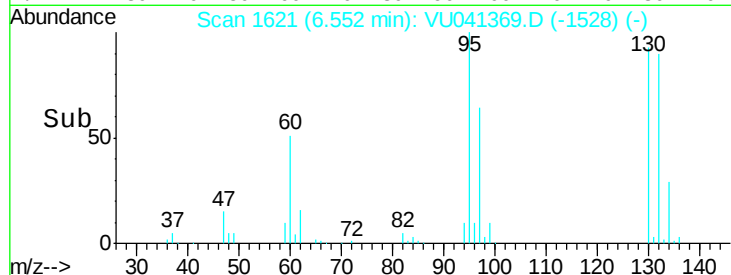
#34  
 Trichloroethene  
 Concen: 52.478 ug/L  
 RT: 6.55 min Scan# 1621  
 Delta R.T. 0.00 min  
 Lab File: VU041369.D  
 Acq: 20 Nov 2020 16:03

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 95    | Resp: | 252118 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 63.2  | 45.6  | 84.6   |
| 132      | 89.7  | 64.8  | 120.4  |
| 130      | 92.2  | 64.8  | 120.4  |

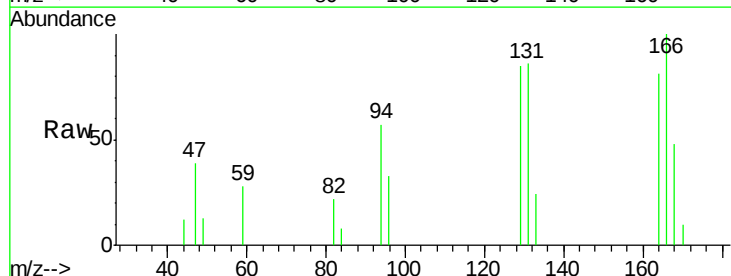


Abundance Ion 95.00 (94.70 to 95.70): VU041369.D (-1528) (-)



#47  
 Tetrachloroethene  
 Concen: 0.453 ug/L  
 RT: 8.56 min Scan# 2244  
 Delta R.T. 0.00 min  
 Lab File: VU041369.D  
 Acq: 20 Nov 2020 16:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 1609  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 104.5 | 70.3  | 130.7 |
| 131      | 106.1 | 70.8  | 131.4 |
| 166      | 122.9 | 92.0  | 170.8 |



Abundance Ion 163.90 (163.60 to 164.60): VU041369.D (-2151) (-)

