

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102120\  
 Data File : VU040903.D  
 Acq On : 22 Oct 2020 13:45  
 Operator : SY/MD  
 Sample : L4420-03  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

Quant Time: Oct 22 23:25:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102120WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Oct 22 23:17:57 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 213849   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 226299   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 94531    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 63173    | 4.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 86.20%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 62255    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 99152    | 3.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 63.60%  |
| 20) 2-Butanone-d5              | 4.65   | 46    | 322110   | 61.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 123.76% |
| 24) Chloroform-d               | 5.08   | 84    | 155893   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 100643   | 5.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 111.60% |
| 32) Benzene-d6                 | 5.74   | 84    | 264790   | 4.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 97280    | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 96.60%  |
| 41) Toluene-d8                 | 7.91   | 98    | 200542   | 3.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 76.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 35675    | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 88.60%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 227180   | 56.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 112.12% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 92883    | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 88015    | 5.30     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 106.00% |

## Target Compounds

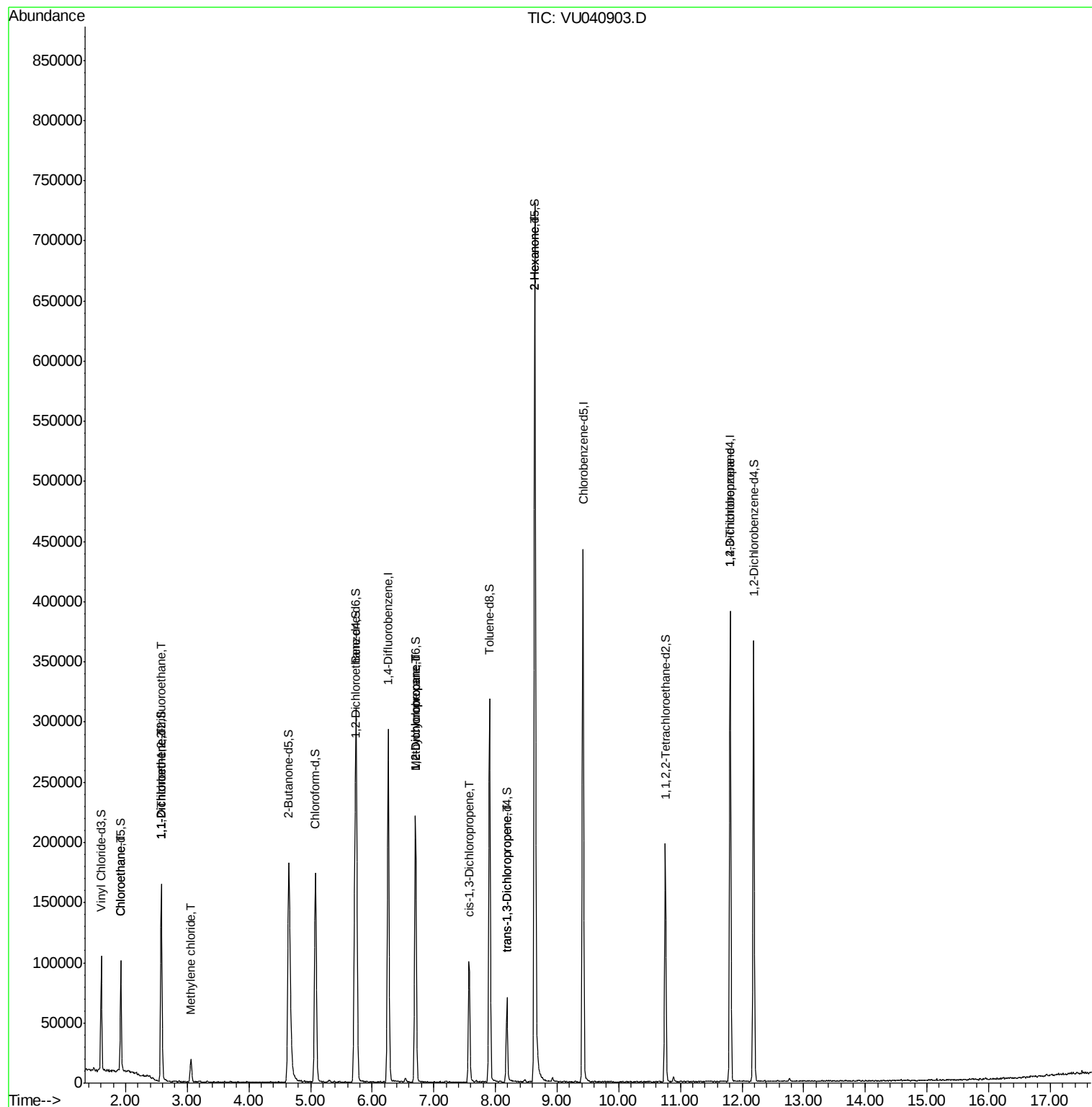
|                                |       |     |       |              | Ovalue |
|--------------------------------|-------|-----|-------|--------------|--------|
| 8) Chloroethane                | 1.93  | 64  | 897   | 0.063 ug/L # | 63     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58  | 101 | 817   | 0.049 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.58  | 96  | 1003  | 0.064 ug/L # | 1      |
| 16) Methylene chloride         | 3.06  | 84  | 8334  | 0.433 ug/L   | 97     |
| 35) Methylcyclohexane          | 6.70  | 83  | 21934 | 0.792 ug/L # | 15     |
| 37) 1,2-Dichloropropane        | 6.70  | 63  | 11620 | 0.592 ug/L # | 90     |
| 39) cis-1,3-Dichloropropene    | 7.57  | 75  | 2499  | 0.095 ug/L # | 48     |
| 44) trans-1,3-Dichloropropene  | 8.19  | 75  | 2203  | 0.093 ug/L   | 84     |
| 48) 2-Hexanone                 | 8.64  | 43  | 34077 | 3.554 ug/L # | 70     |
| 59) 1,2,3-Trichloropropane     | 11.81 | 75  | 12571 | 0.985 ug/L # | 87     |

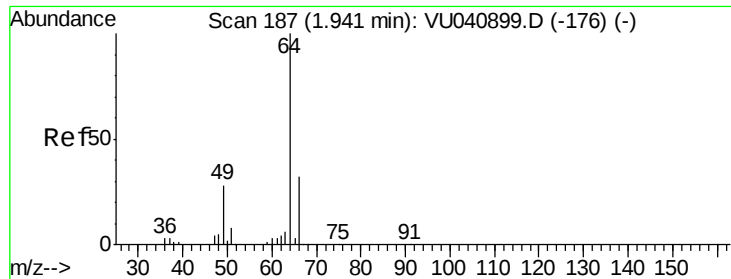
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102120\  
Data File : VU040903.D  
Acq On : 22 Oct 2020 13:45  
Operator : SY/MD  
Sample : L4420-03  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 43 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

Quant Time: Oct 22 23:25:46 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102120WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 22 23:17:57 2020  
Response via : Initial Calibration

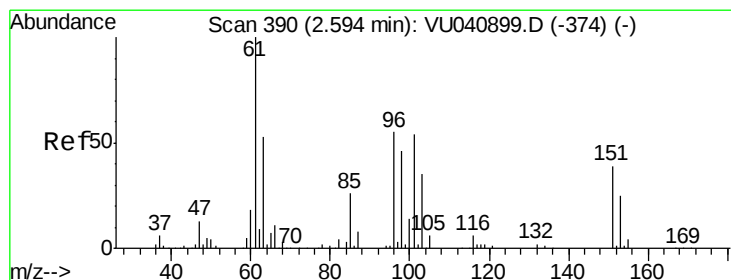
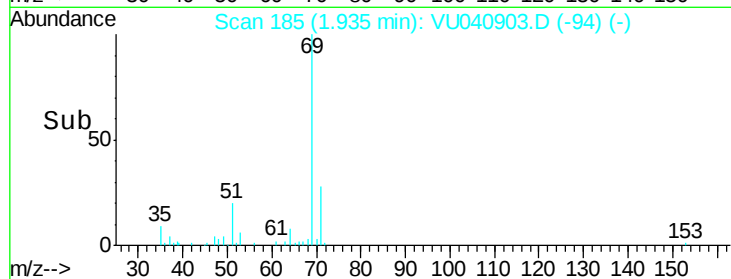
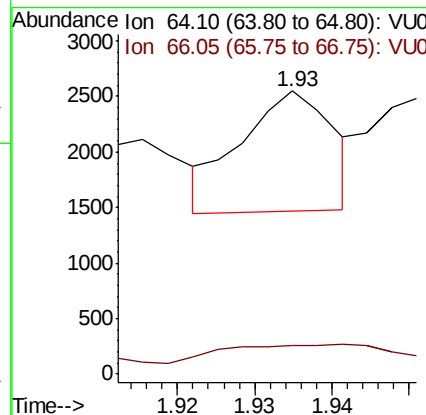
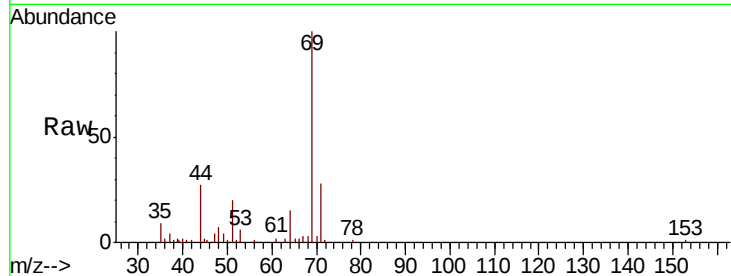




#8  
Chloroethane  
Concen: 0.063 ug/L  
RT: 1.93 min Scan# 185  
Delta R.T. -0.01 min  
Lab File: VU040903.D  
Acq: 22 Oct 2020 13:45

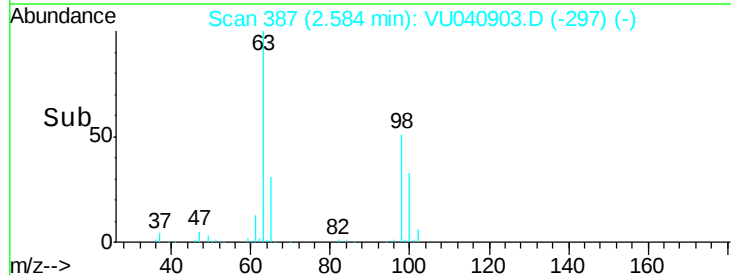
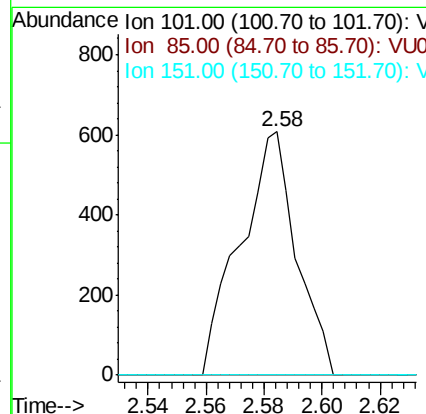
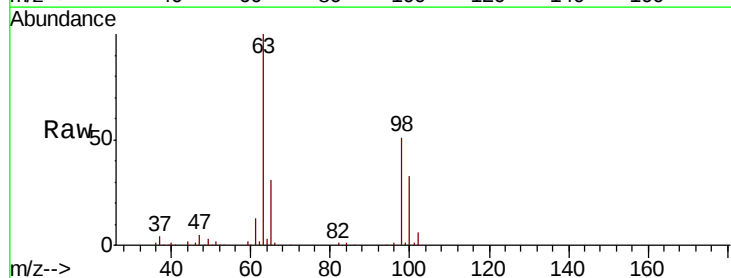
Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

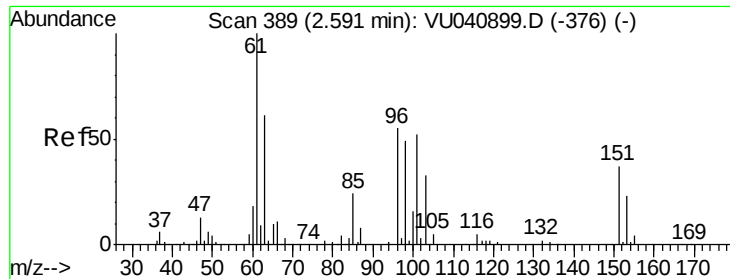
Tot Ion: 64 Resp: 897  
Ion Ratio Lower Upper  
64 100  
66 10.2 21.2 39.4#



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.049 ug/L  
RT: 2.58 min Scan# 387  
Delta R.T. -0.01 min  
Lab File: VU040903.D  
Acq: 22 Oct 2020 13:45

Tgt Ion: 101 Resp: 817  
Ion Ratio Lower Upper  
101 100  
85 0.0 36.4 54.6#  
151 0.0 56.3 84.5#





#12

1,1-Dichloroethene

Concen: 0.064 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040903.D

Acq: 22 Oct 2020 13:45

Instrument :

MSVOA\_U

ClientSampleId :

VHBLK01

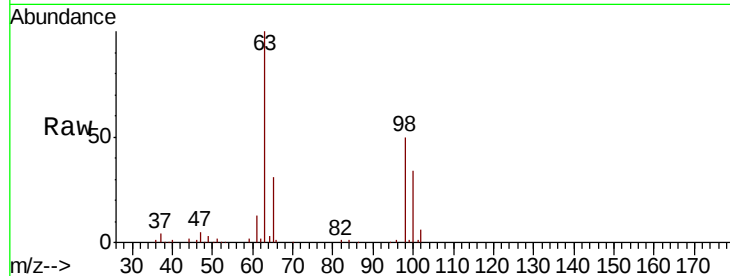
Tot Ion: 96 Resp: 1003

Ion Ratio Lower Upper

96 100

61 1141.0 130.9 243.1#

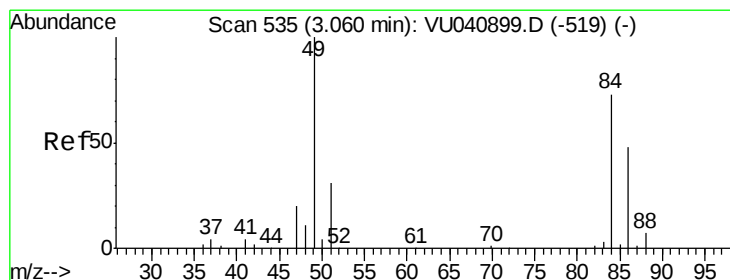
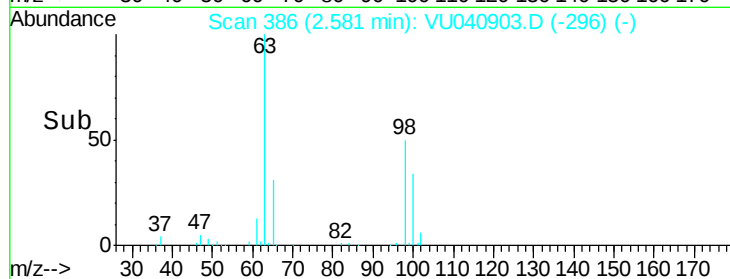
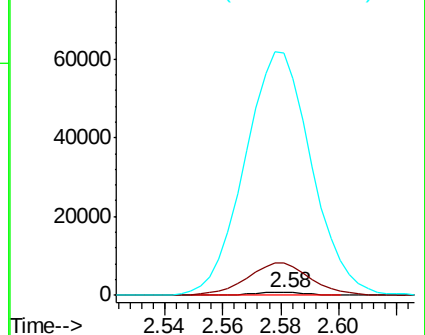
63 8617.4 85.4 158.6#



Abundance Ion 96.00 (95.70 to 96.70): VU040903.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VU040903.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VU040903.D (-296) (-)



#16

Methylene chloride

Concen: 0.433 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040903.D

Acq: 22 Oct 2020 13:45

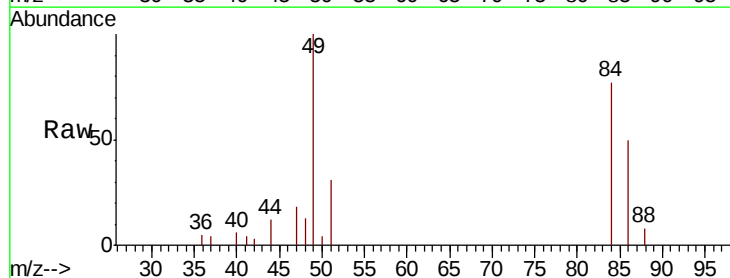
Tgt Ion: 84 Resp: 8334

Ion Ratio Lower Upper

84 100

86 64.8 44.9 83.5

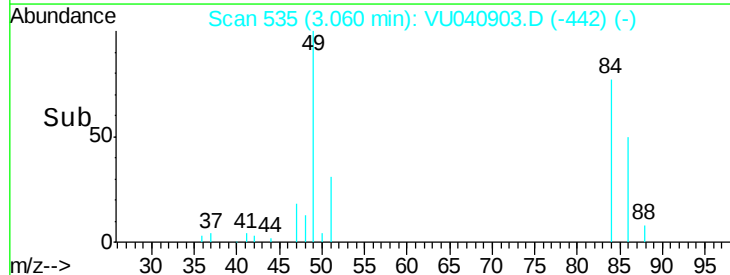
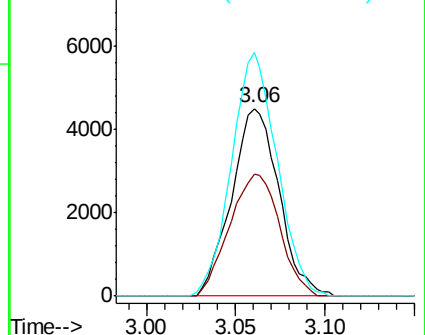
49 129.7 94.7 175.9

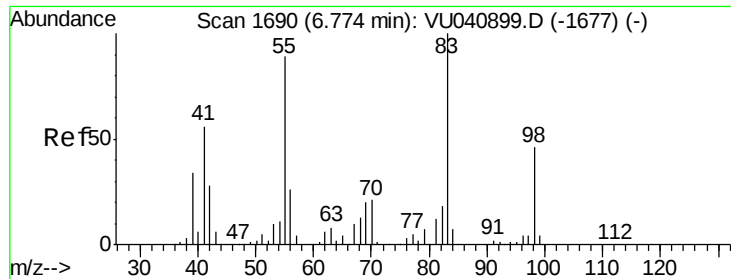


Abundance Ion 84.05 (83.75 to 84.75): VU040903.D (-442) (-)

Ion 86.00 (85.70 to 86.70): VU040903.D (-442) (-)

Ion 49.10 (48.80 to 49.80): VU040903.D (-442) (-)

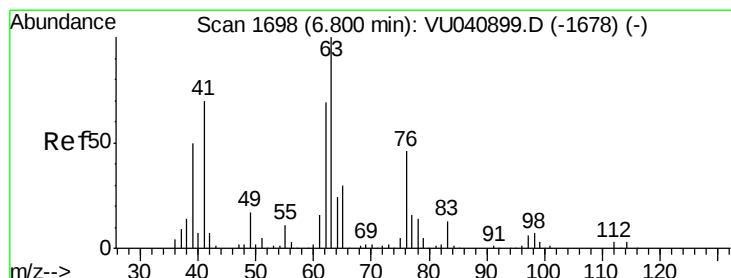
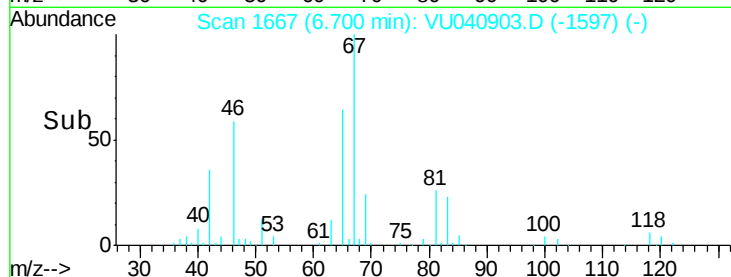
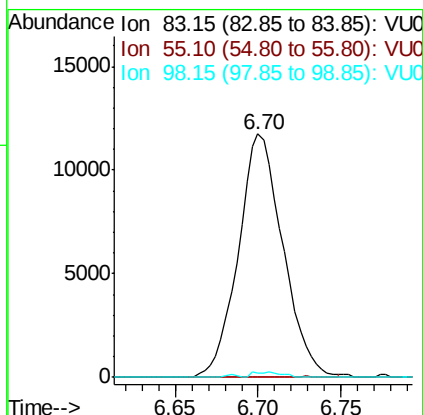
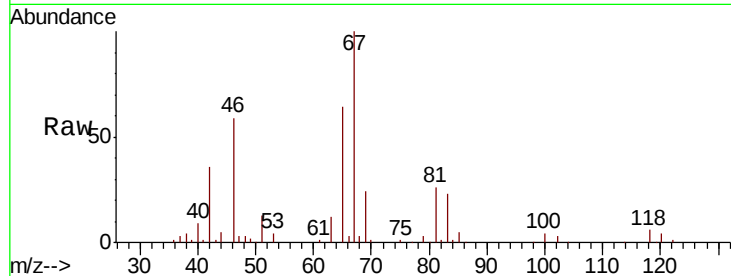




#35  
Methvlcvclohexane  
Concen: 0.792 ug/L  
RT: 6.70 min Scan# 1667  
Delta R.T. -0.07 min  
Lab File: VU040903.D  
Acq: 22 Oct 2020 13:45

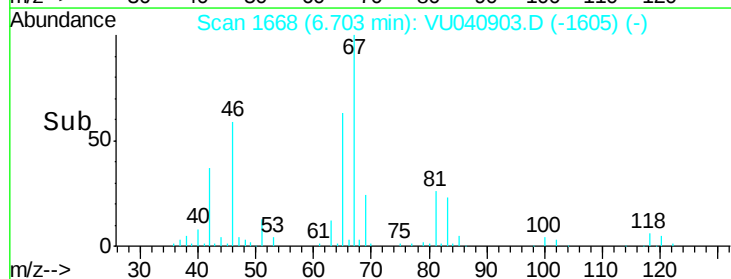
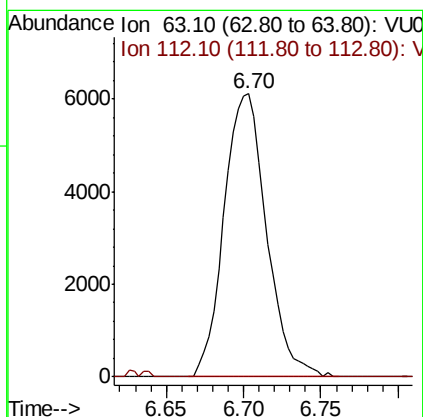
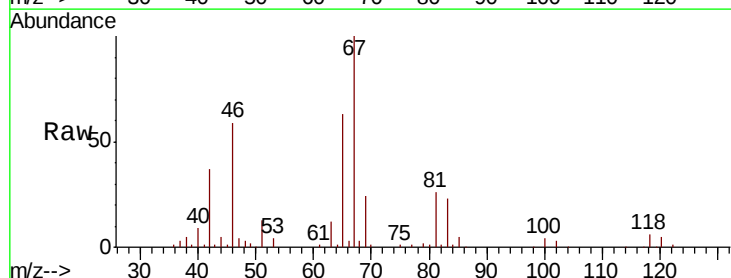
Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

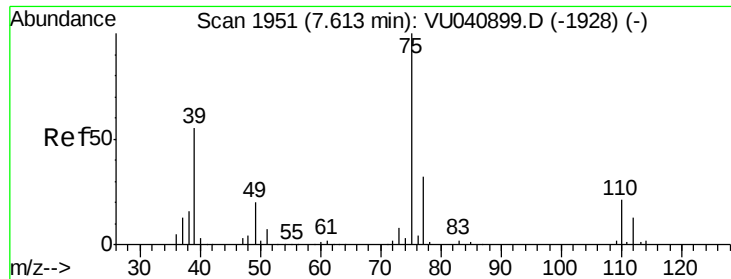
Tot Ion: 83 Resp: 21934  
Ion Ratio Lower Upper  
83 100  
55 0.1 69.1 103.7#  
98 1.4 37.8 56.6#



#37  
1,2-Dichloropropane  
Concen: 0.592 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.10 min  
Lab File: VU040903.D  
Acq: 22 Oct 2020 13:45

Tgt Ion: 63 Resp: 11620  
Ion Ratio Lower Upper  
63 100  
112 0.4 3.0 4.6#

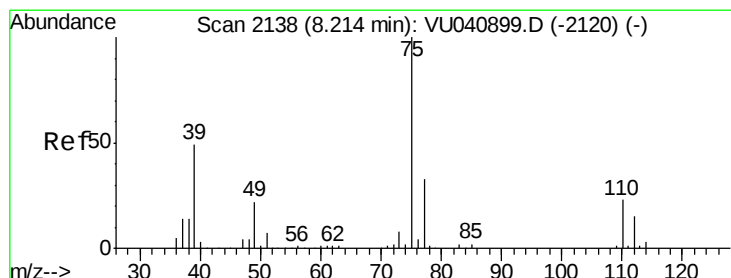
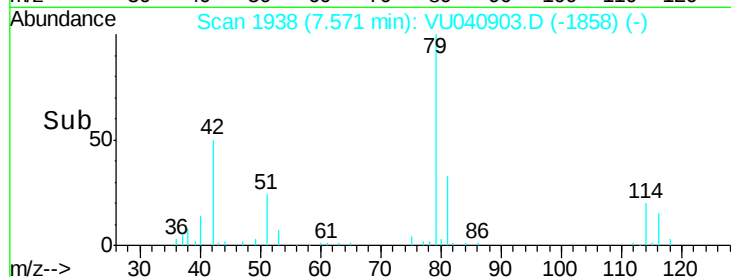
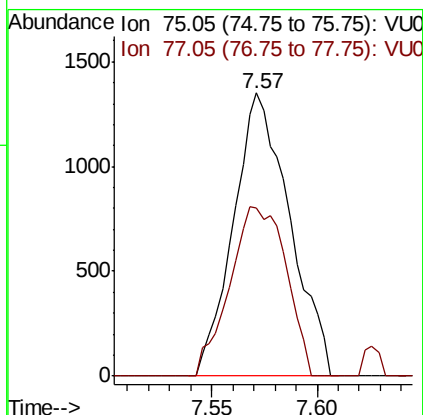
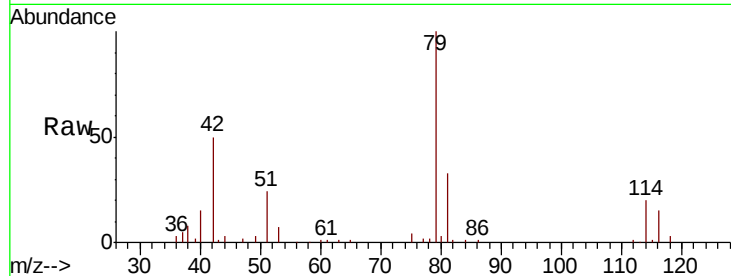




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.095 ug/L  
 RT: 7.57 min Scan# 1938  
 Delta R.T. -0.04 min  
 Lab File: VU040903.D  
 Acq: 22 Oct 2020 13:45

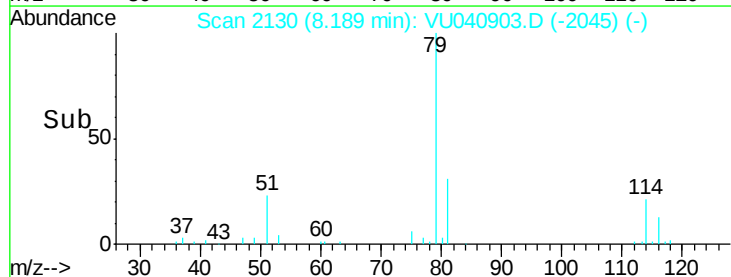
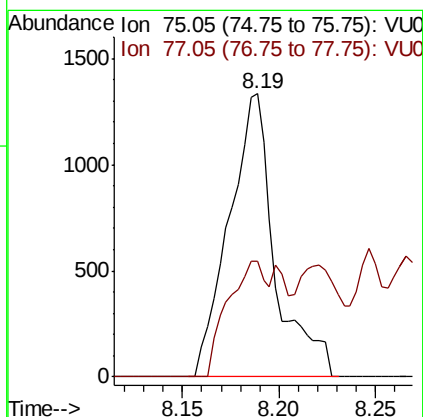
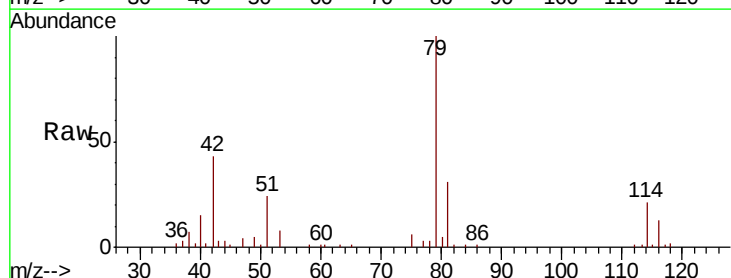
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

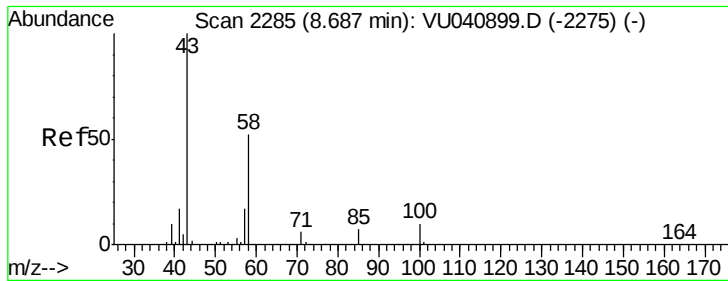
Tot Ion: 75 Resp: 2499  
 Ion Ratio Lower Upper  
 75 100  
 77 59.2 21.6 40.2#



#44  
 trans-1,3-Dichloropropene  
 Concen: 0.093 ug/L  
 RT: 8.19 min Scan# 2130  
 Delta R.T. -0.03 min  
 Lab File: VU040903.D  
 Acq: 22 Oct 2020 13:45

Tgt Ion: 75 Resp: 2203  
 Ion Ratio Lower Upper  
 75 100  
 77 41.0 22.6 42.0

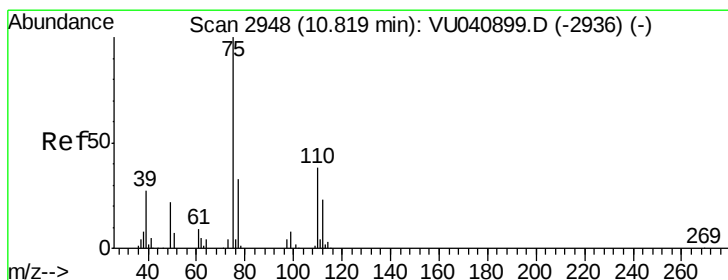
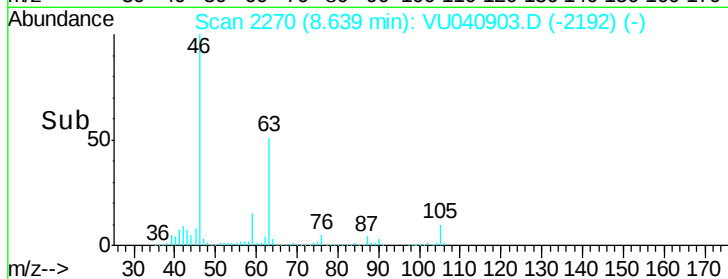
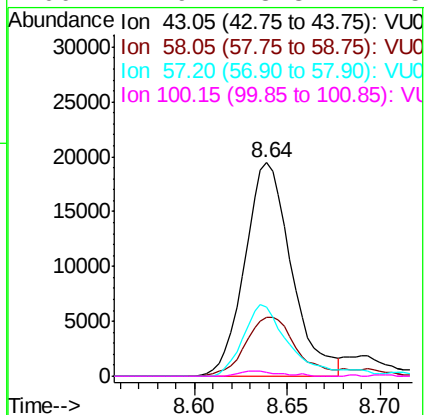
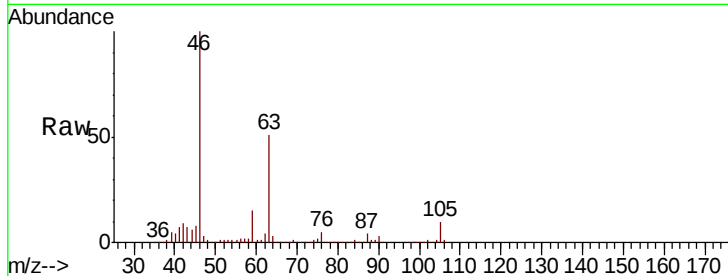




#48  
 2-Hexanone  
 Concen: 3.554 ug/L  
 RT: 8.64 min Scan# 2270  
 Delta R.T. -0.05 min  
 Lab File: VU040903.D  
 Acq: 22 Oct 2020 13:45

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 34077 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 29.7  | 40.9  | 61.3# |
| 57       | 32.1  | 14.4  | 21.6# |
| 100      | 1.9   | 8.3   | 12.5# |



#59  
 1,2,3-Trichloropropane  
 Concen: 0.985 ug/L  
 RT: 11.81 min Scan# 3255  
 Delta R.T. 0.99 min  
 Lab File: VU040903.D  
 Acq: 22 Oct 2020 13:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 12571 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 41.6  | 27.5  | 41.3# |

