

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110920\  
 Data File : VU041143.D  
 Acq On : 09 Nov 2020 16:09  
 Operator : SY/MD  
 Sample : L4648-09  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

Quant Time: Nov 10 01:13:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Nov 10 01:04:12 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 53441    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 56420    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 23780    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 24189    | 5.39     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 107.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 19079    | 5.53     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 110.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 35060    | 3.98     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 79.60%   |
| 20) 2-Butanone-d5              | 4.66   | 46    | 77453    | 52.39    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 104.78%  |
| 24) Chloroform-d               | 5.08   | 84    | 45823    | 5.78     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 115.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 28504    | 5.79     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 115.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 81494    | 5.40     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 108.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 28225    | 5.74     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 114.80%  |
| 41) Toluene-d8                 | 7.91   | 98    | 68270    | 4.99     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%   |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 10733    | 5.04     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 56220    | 49.03    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 98.06%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 23466    | 5.14     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 26292    | 6.30     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 126.00%# |

## Target Compounds

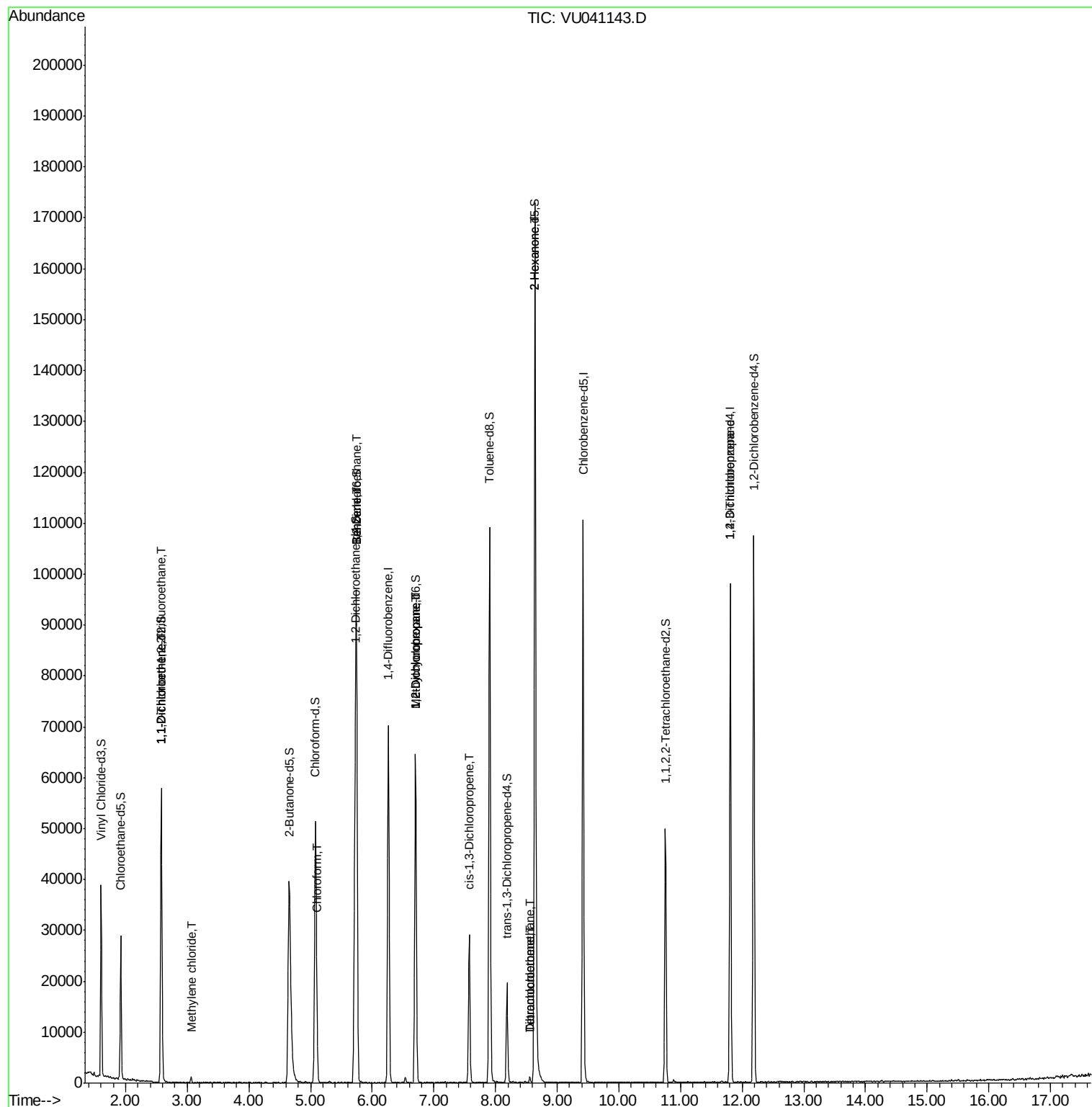
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.57  | 101  | 194      | 0.049 | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.58  | 96   | 213      | 0.056 | ug/L # | 1      |
| 16) Methylene chloride         | 3.06  | 84   | 522      | 0.119 | ug/L   | 73     |
| 25) Chloroform                 | 5.11  | 83   | 993      | 0.129 | ug/L   | 97     |
| 27) 1,2-Dichloroethane         | 5.75  | 62   | 382      | 0.067 | ug/L # | 74     |
| 33) Benzene                    | 5.75  | 78   | 462      | 0.027 | ug/L   | 100    |
| 35) Methylcyclohexane          | 6.70  | 83   | 6250     | 0.977 | ug/L # | 14     |
| 37) 1,2-Dichloropropane        | 6.71  | 63   | 3402     | 0.746 | ug/L # | 86     |
| 39) cis-1,3-Dichloropropene    | 7.57  | 75   | 693      | 0.110 | ug/L   | 86     |
| 47) Tetrachloroethene          | 8.56  | 164  | 224      | 0.071 | ug/L   | 85     |
| 48) 2-Hexanone                 | 8.64  | 43   | 8507     | 3.106 | ug/L # | 70     |
| 49) Dibromochloromethane       | 8.56  | 129  | 230      | 0.058 | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.80 | 75   | 3138     | 0.923 | ug/L # | 87     |

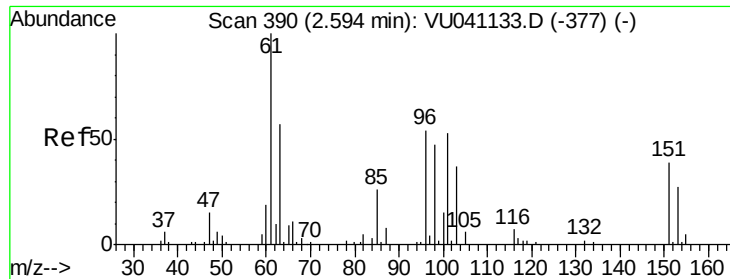
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L4648-09  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

Quant Time: Nov 10 01:13:01 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 10 01:04:12 2020  
Response via : Initial Calibration





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.049 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041143.D

Acq: 09 Nov 2020 16:09

Instrument :

MSVOA\_U

ClientSampled :

VHBLK01

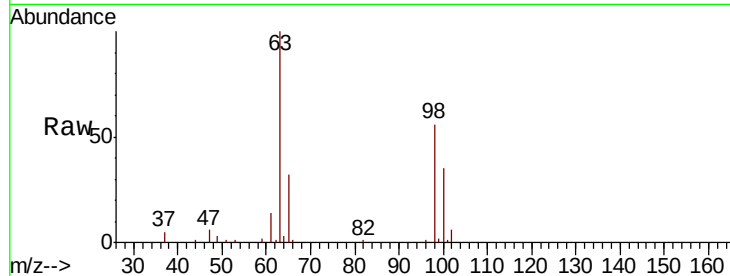
Tot Ion:101 Resp: 194

Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

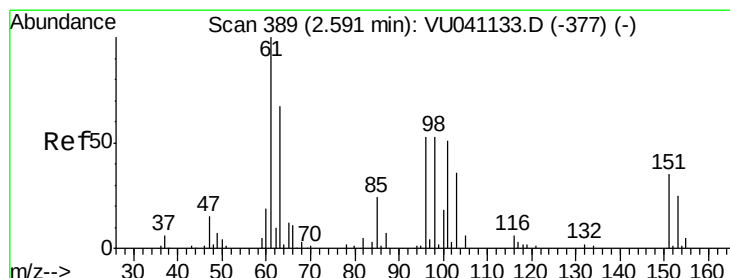
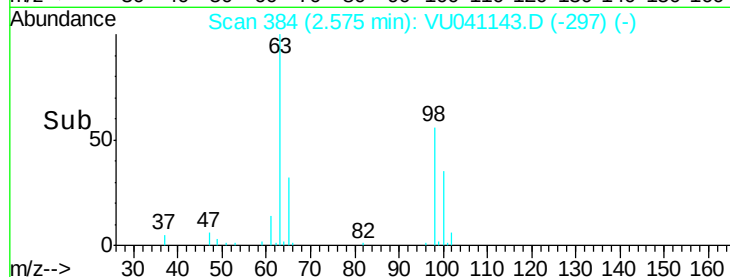
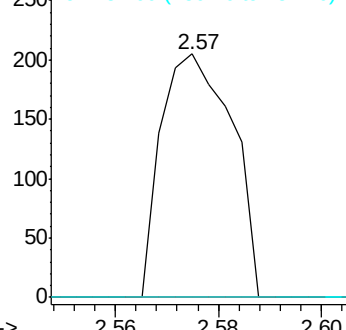
151 0.0 55.3 82.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.056 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041143.D

Acq: 09 Nov 2020 16:09

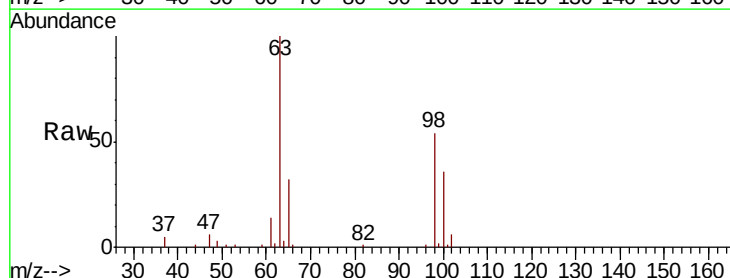
Tgt Ion: 96 Resp: 213

Ion Ratio Lower Upper

96 100

61 1648.9 134.3 249.5#

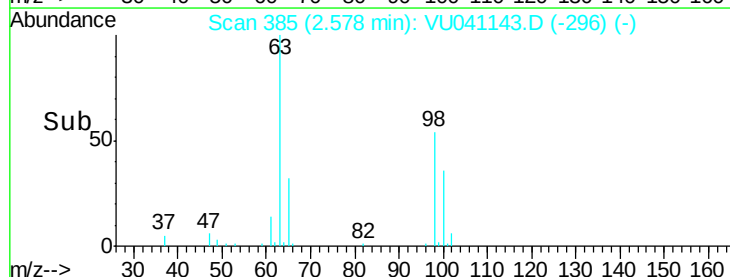
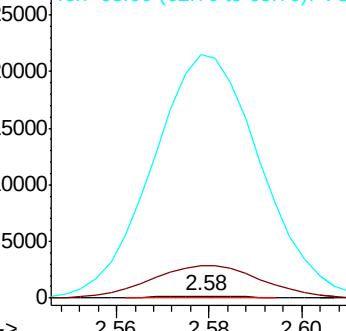
63 12213.6 95.0 176.4#

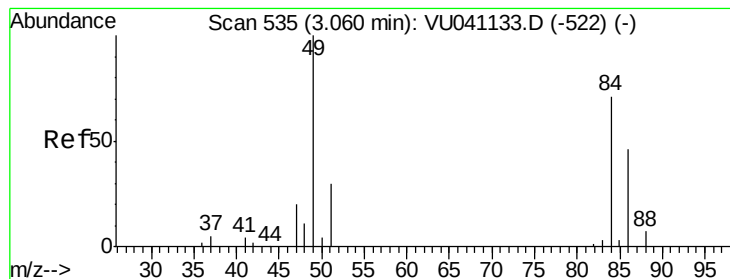


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#16

Methvlene chloride

Concen: 0.119 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU041143.D

Acq: 09 Nov 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VHBLK01

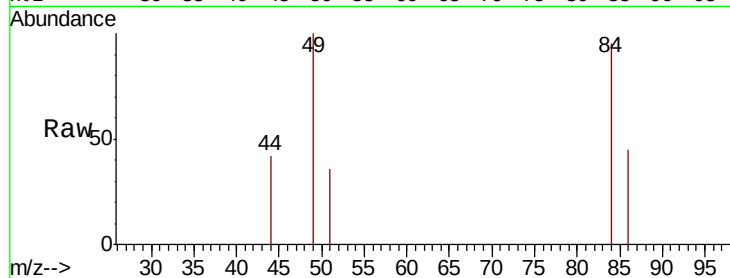
Tot Ion: 84 Resp: 522

Ion Ratio Lower Upper

84 100

86 47.1 42.8 79.6

49 105.3 99.5 184.7

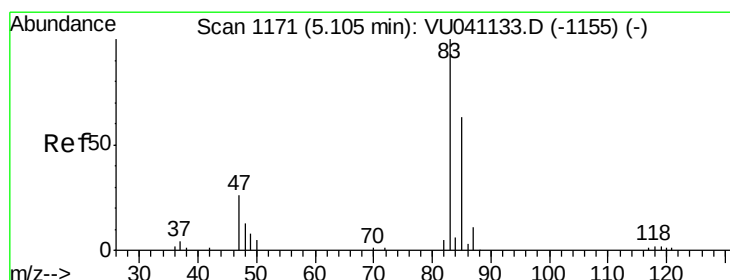
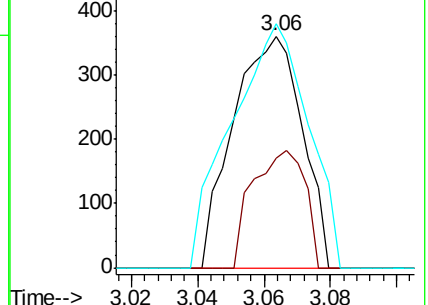
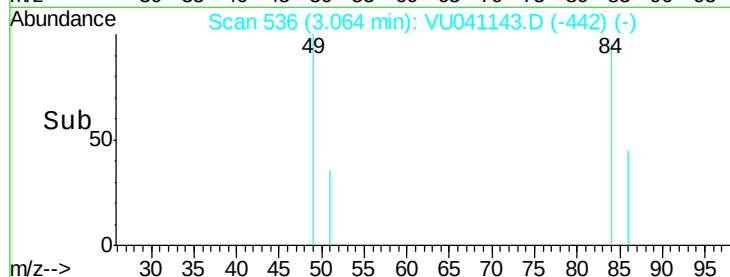


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

Time--> 3.02 3.04 3.06 3.08



#25

Chloroform

Concen: 0.129 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU041143.D

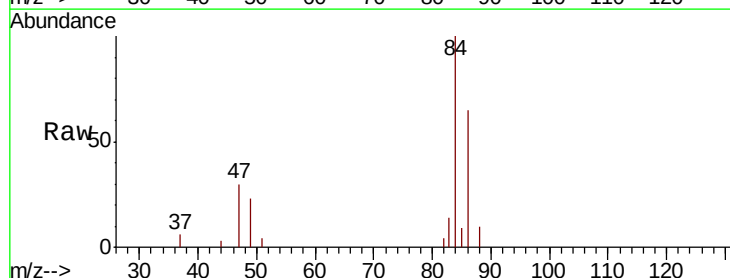
Acq: 09 Nov 2020 16:09

Tgt Ion: 83 Resp: 993

Ion Ratio Lower Upper

83 100

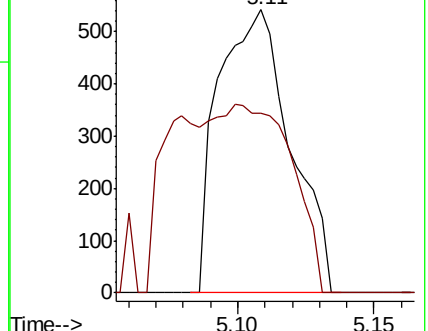
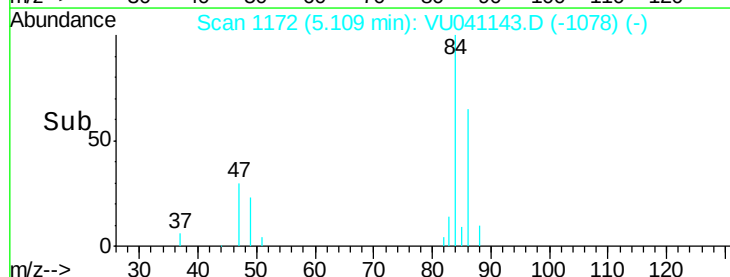
85 63.3 46.1 85.7

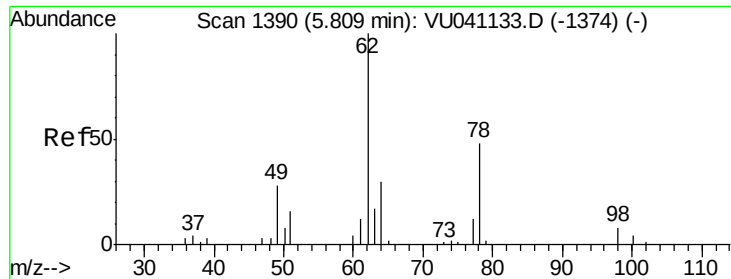


Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time--> 5.10 5.15

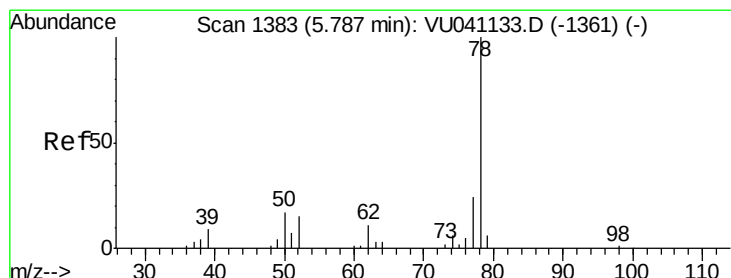
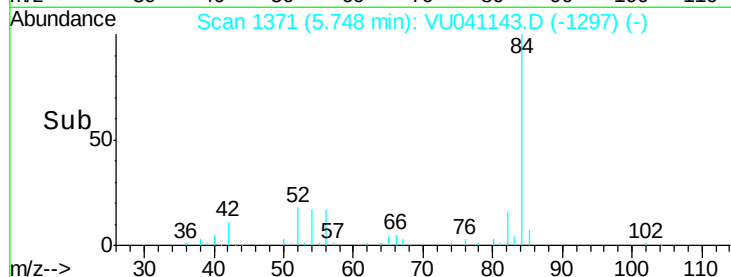
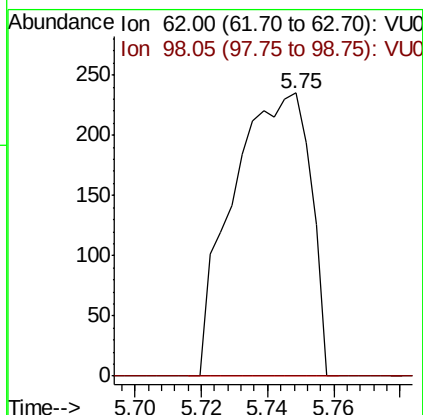
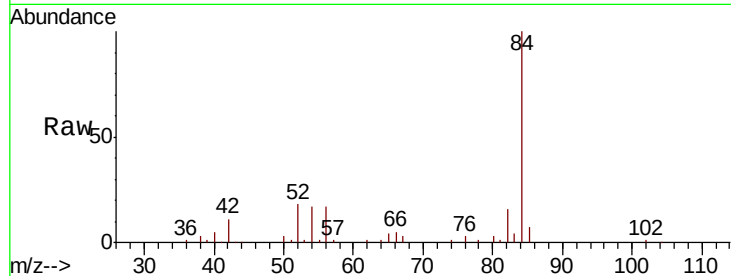




#27  
 1,2-Dichloroethane  
 Concen: 0.067 ug/L  
 RT: 5.75 min Scan# 1371  
 Delta R.T. -0.06 min  
 Lab File: VU041143.D  
 Acq: 09 Nov 2020 16:09

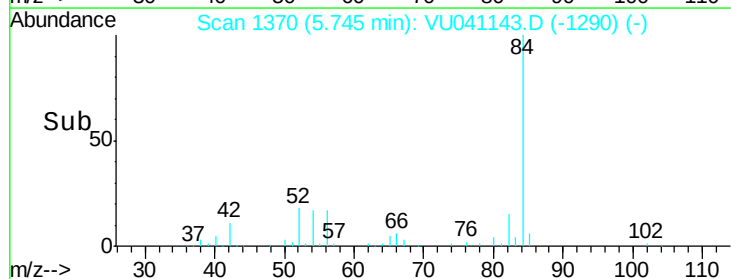
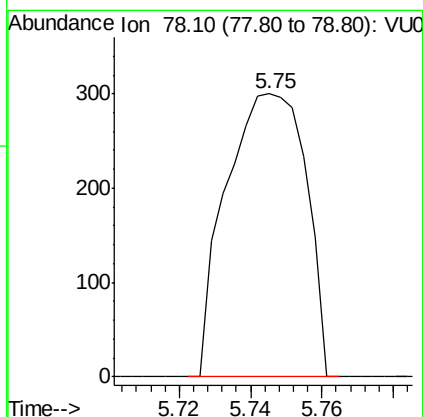
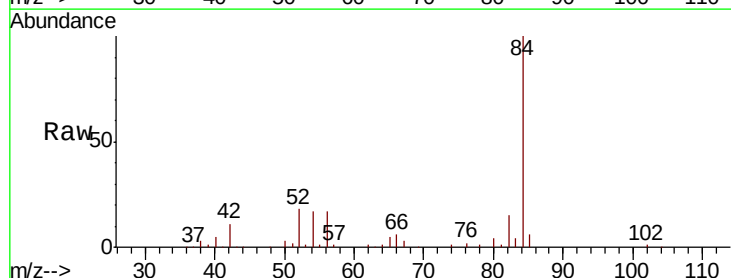
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VHBLK01

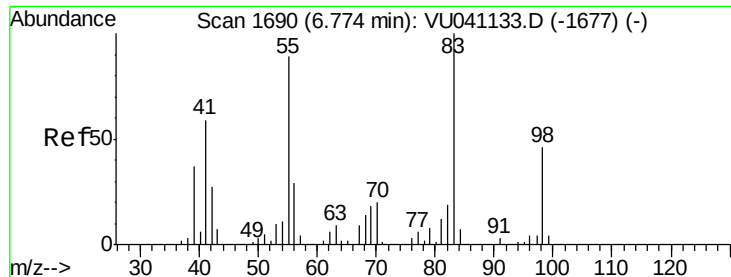
Tot Ion: 62 Resp: 382  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 7.6 11.4#



#33  
 Benzene  
 Concen: 0.027 ug/L  
 RT: 5.75 min Scan# 1370  
 Delta R.T. -0.04 min  
 Lab File: VU041143.D  
 Acq: 09 Nov 2020 16:09

Tgt Ion: 78 Resp: 462

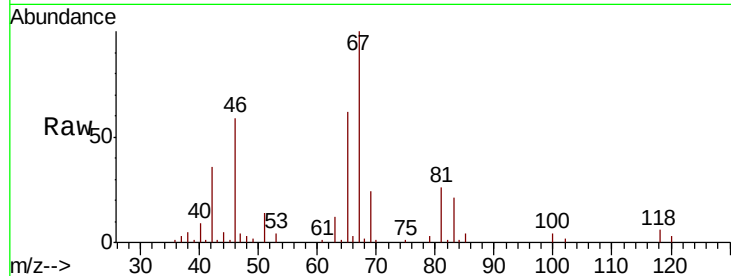




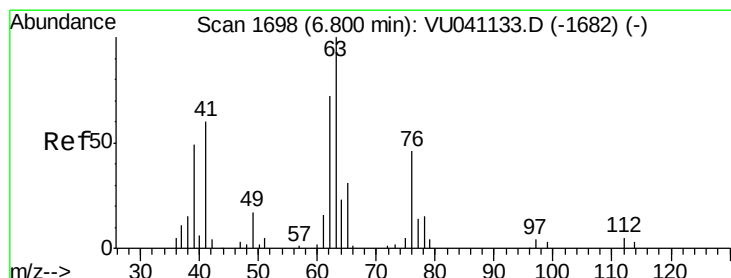
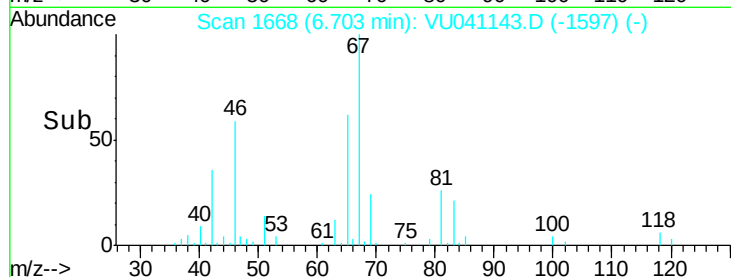
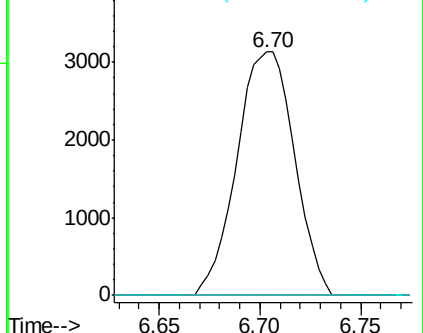
#35  
Methylvlcyclohexane  
Concen: 0.977 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU041143.D  
Acq: 09 Nov 2020 16:09

Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

Tot Ion: 83 Resp: 6250  
Ion Ratio Lower Upper  
83 100  
55 0.0 72.0 108.0#  
98 2.1 36.6 55.0#

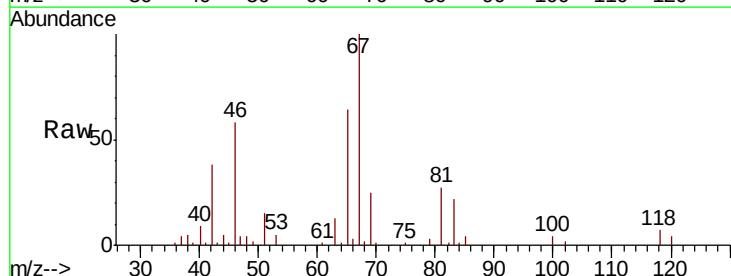


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

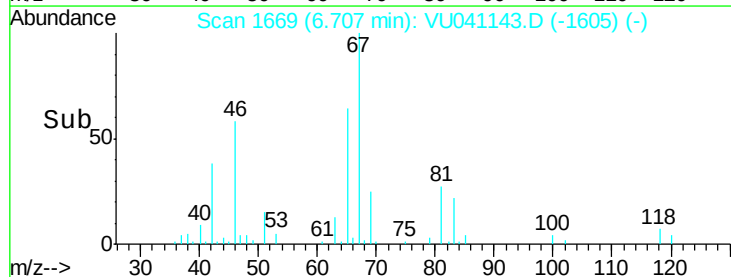
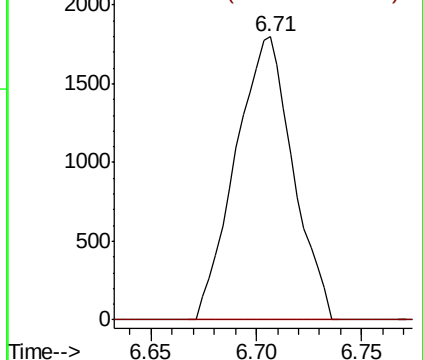


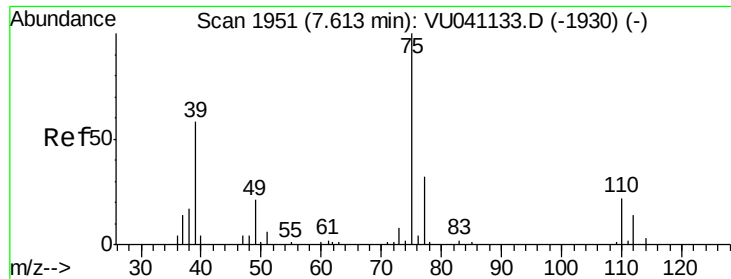
#37  
1,2-Dichloropropane  
Concen: 0.746 ug/L  
RT: 6.71 min Scan# 1669  
Delta R.T. -0.09 min  
Lab File: VU041143.D  
Acq: 09 Nov 2020 16:09

Tgt Ion: 63 Resp: 3402  
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

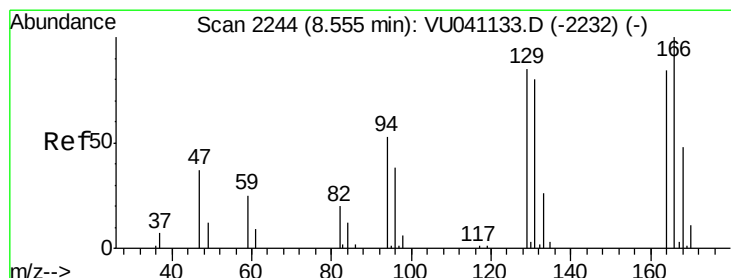
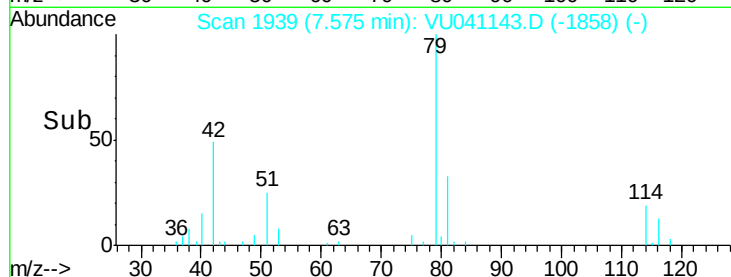
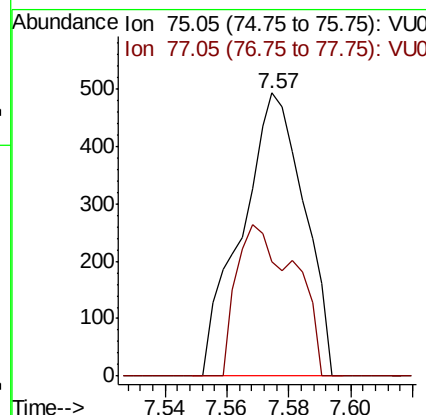
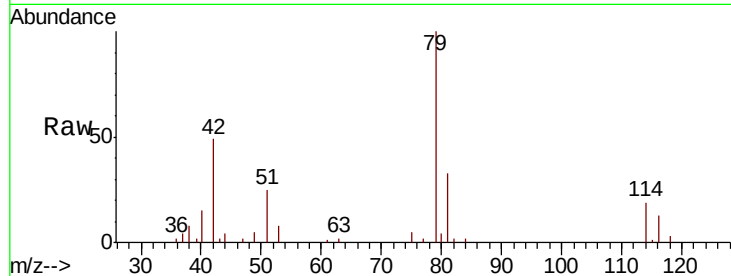




#39  
 cis-1,3-Dichloropropene  
 Concen: 0.110 ug/L  
 RT: 7.57 min Scan# 1939  
 Delta R.T. -0.04 min  
 Lab File: VU041143.D  
 Acq: 09 Nov 2020 16:09

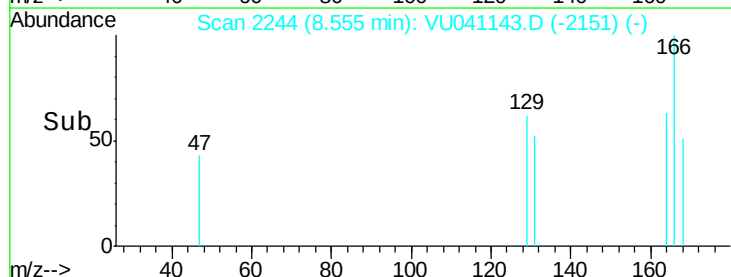
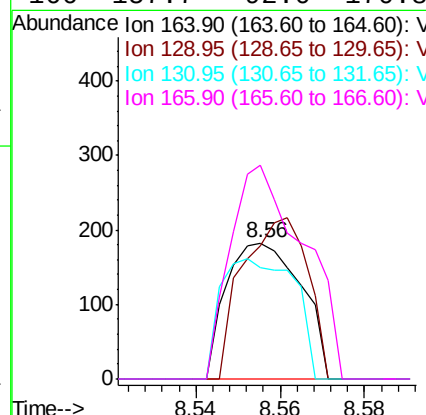
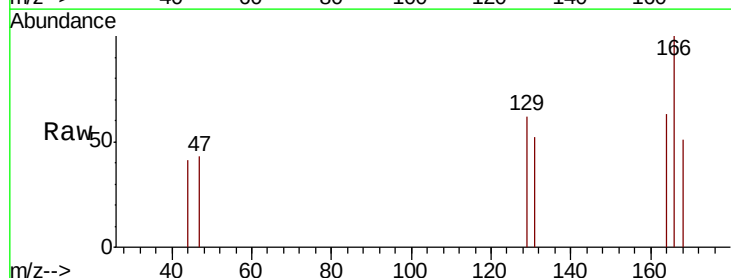
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VHBLK01

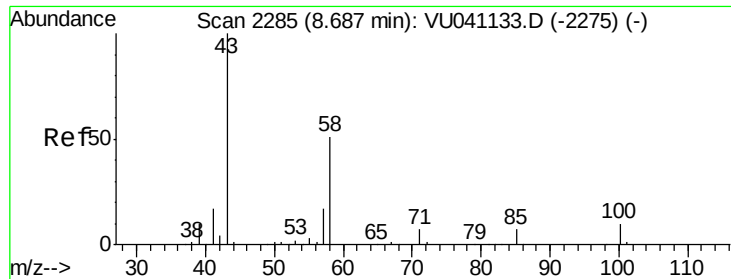
Tot Ion: 75 Resp: 693  
 Ion Ratio Lower Upper  
 75 100  
 77 40.6 22.7 42.3



#47  
 Tetrachloroethene  
 Concen: 0.071 ug/L  
 RT: 8.56 min Scan# 2244  
 Delta R.T. 0.00 min  
 Lab File: VU041143.D  
 Acq: 09 Nov 2020 16:09

Tgt Ion:164 Resp: 224  
 Ion Ratio Lower Upper  
 164 100  
 129 98.4 70.3 130.7  
 131 82.4 70.8 131.4  
 166 157.7 92.0 170.8

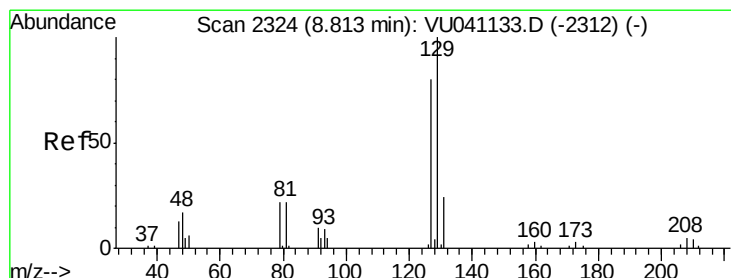
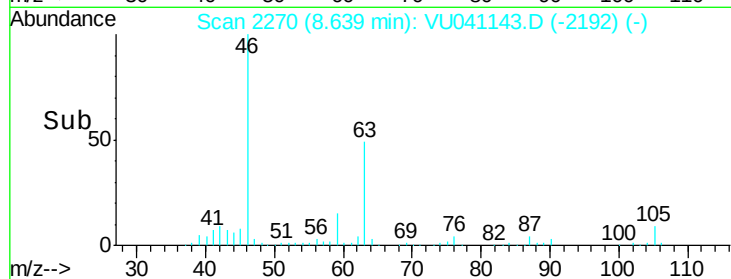
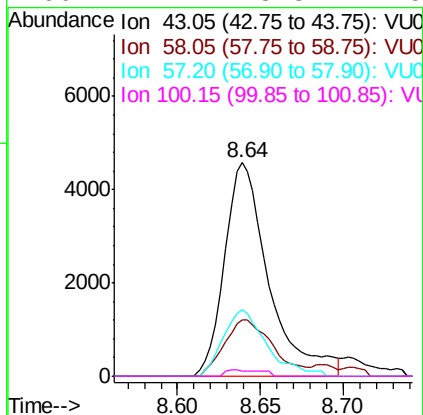
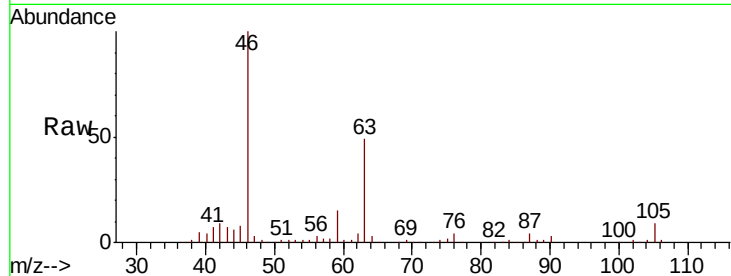




#48  
2-Hexanone  
Concen: 3.106 ug/L  
RT: 8.64 min Scan# 2270  
Delta R.T. -0.05 min  
Lab File: VU041143.D  
Acq: 09 Nov 2020 16:09

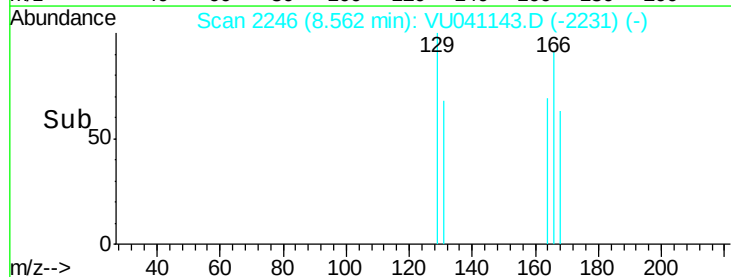
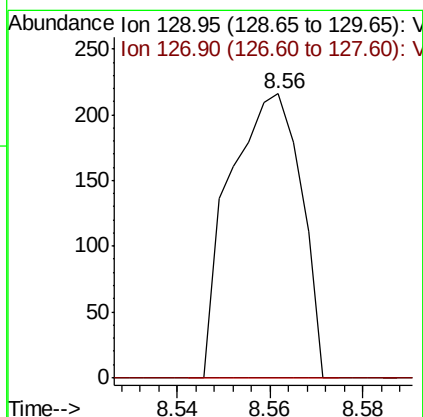
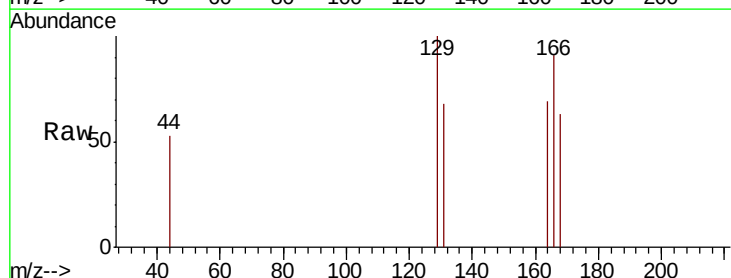
Instrument :  
MSVOA\_U  
ClientSampleId :  
VHBLK01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 28.7  | 41.4  | 62.2# |
| 57      | 30.7  | 14.6  | 21.8# |
| 100     | 2.4   | 8.3   | 12.5# |

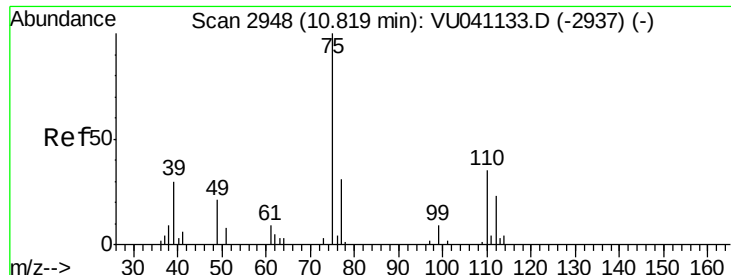


#49  
Dibromochloromethane  
Concen: 0.058 ug/L  
RT: 8.56 min Scan# 2246  
Delta R.T. -0.25 min  
Lab File: VU041143.D  
Acq: 09 Nov 2020 16:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 0.0   | 53.4  | 99.2# |







#59

1,2,3-Trichloropropane

Concen: 0.923 ug/L

RT: 11.80 min Scan# 3254

Delta R.T. 0.98 min

Lab File: VU041143.D

Acq: 09 Nov 2020 16:09

Instrument :

MSVOA\_U

ClientSampleId :

VHBLK01

Tot Ion: 75 Resp: 3138

Ion Ratio Lower Upper

75 100

77 39.5 25.7 38.5#

