

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122120\  
 Data File : VU041711.D  
 Acq On : 21 Dec 2020 19:29  
 Operator : SY/MD  
 Sample : L5162-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GB248

Quant Time: Dec 22 02:54:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121220WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Dec 22 02:49:59 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 135710   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 126720   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 62066    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 36503    | 3.44     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 68.80%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 38292    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 93.20%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 54452    | 2.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 55.80%# |
| 20) 2-Butanone-d5              | 4.65   | 46    | 173010   | 56.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 113.54% |
| 24) Chloroform-d               | 5.08   | 84    | 84707    | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 48739    | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.60%  |
| 32) Benzene-d6                 | 5.74   | 84    | 162707   | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 57765    | 5.08     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.60% |
| 41) Toluene-d8                 | 7.90   | 98    | 138904   | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 84.80%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 21886    | 4.28     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.60%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 154252   | 55.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 110.32% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 53552    | 5.18     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 103.60% |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 55579    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 100.80% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.52 | 50   | 503      | 0.045 | ug/L # | 56     |
| 8) Chloroethane                | 2.00 | 64   | 705      | 0.084 | ug/L # | 52     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.58 | 101  | 491      | 0.053 | ug/L # | 22     |
| 12) 1,1-Dichloroethene         | 2.58 | 96   | 518      | 0.056 | ug/L # | 1      |
| 13) Acetone                    | 2.65 | 43   | 11571    | 5.969 | ug/L   | 82     |
| 14) Carbon disulfide           | 2.81 | 76   | 1725     | 0.054 | ug/L # | 90     |
| 15) Methyl Acetate             | 2.97 | 43   | 2175     | 0.432 | ug/L # | 89     |
| 16) Methylene chloride         | 3.06 | 84   | 1611     | 0.147 | ug/L   | 95     |
| 21) 2-Butanone                 | 4.73 | 43   | 3173     | 1.005 | ug/L   | 98     |
| 25) Chloroform                 | 5.11 | 83   | 5799     | 0.324 | ug/L   | 80     |
| 27) 1,2-Dichloroethane         | 5.74 | 62   | 902      | 0.074 | ug/L # | 73     |
| 31) Carbon tetrachloride       | 5.54 | 117  | 590      | 0.047 | ug/L   | 96     |
| 35) Methylcyclohexane          | 6.70 | 83   | 13306    | 0.808 | ug/L # | 20     |
| 37) 1,2-Dichloropropane        | 6.70 | 63   | 5996     | 0.578 | ug/L # | 88     |
| 44) trans-1,3-Dichloropropene  | 8.19 | 75   | 1006     | 0.073 | ug/L   | 89     |
| 47) Tetrachloroethene          | 8.56 | 164  | 1038     | 0.146 | ug/L   | 86     |
| 48) 2-Hexanone                 | 8.64 | 43   | 16970    | 3.161 | ug/L # | 63     |

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Instrument :  
MSVOA\_U  
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GB248

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Dec 22 02:49:59 2020  
Response via : Initial Calibration

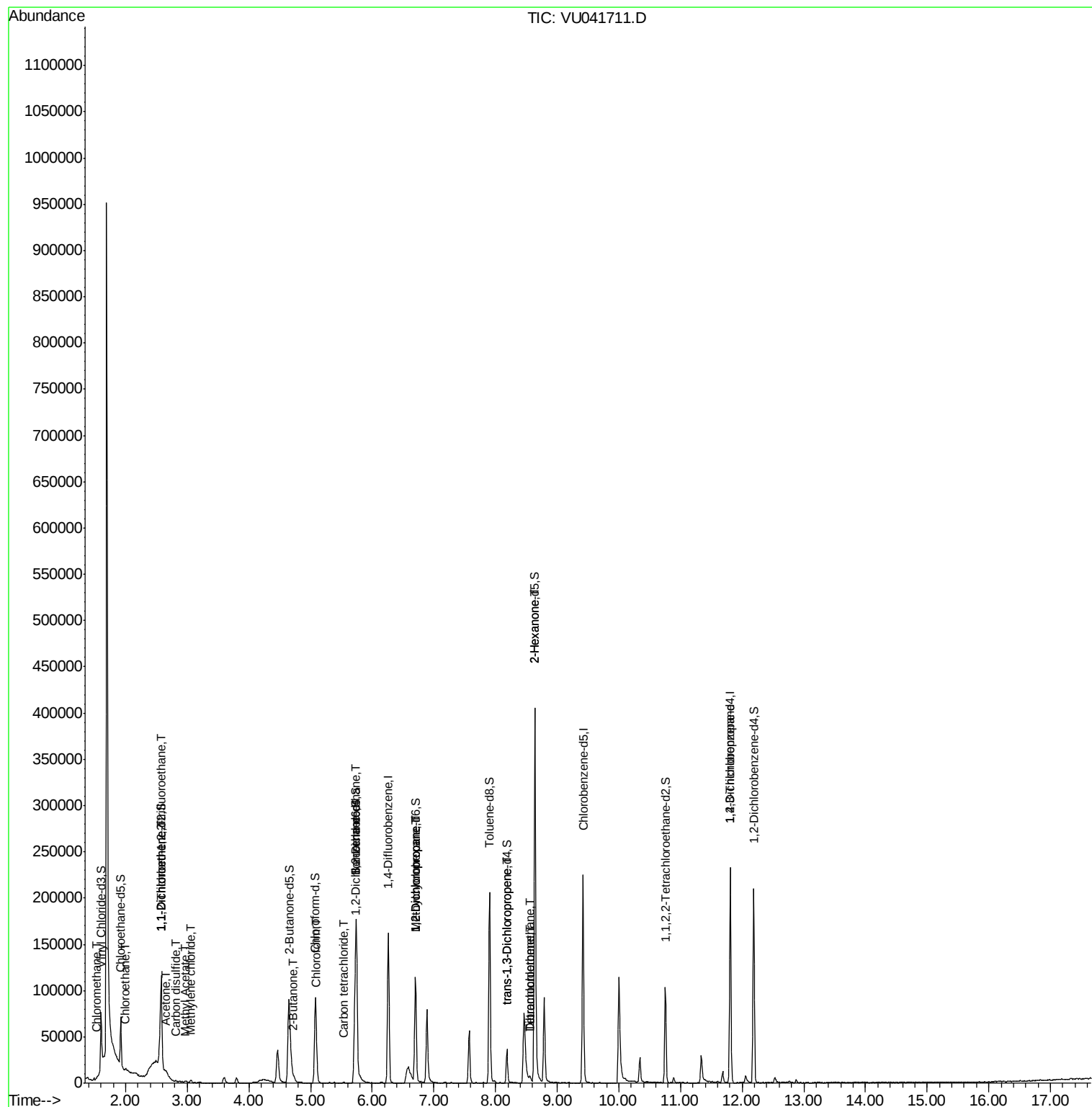
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 49) Dibromochloromethane   | 8.56  | 129  | 895      | 0.102 | ug/L # | 10       |
| 59) 1,2,3-Trichloropropane | 11.81 | 75   | 7290     | 0.936 | ug/L   | 99       |

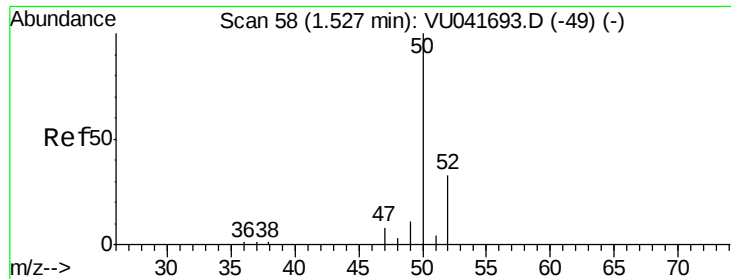
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Dec 22 02:49:59 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.045 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

Instrument :

MSVOA\_U

ClientSampleId :

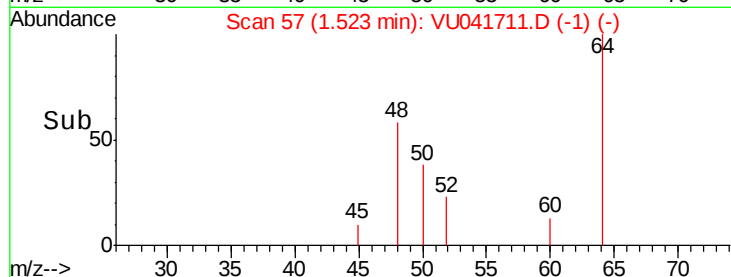
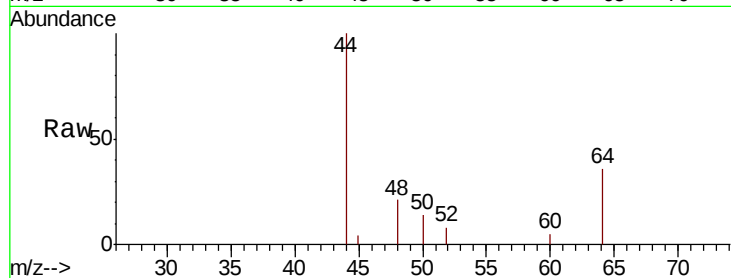
GB248

Tot Ion: 50 Resp: 503

Ion Ratio Lower Upper

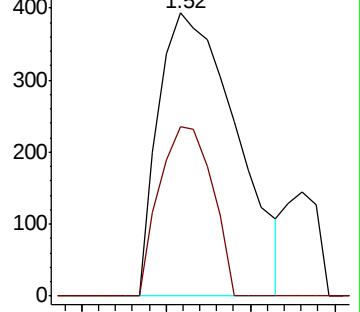
50 100

52 60.1 24.1 44.8#

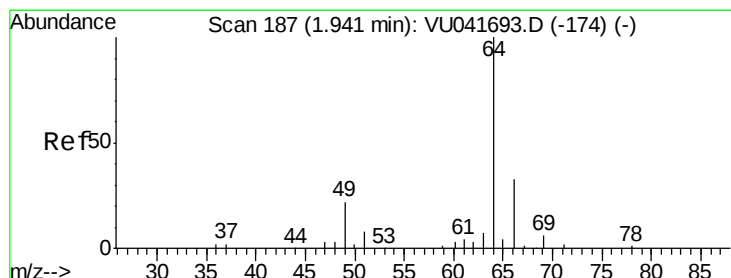


Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



Time-->



#8

Chloroethane

Concen: 0.084 ug/L

RT: 2.00 min Scan# 204

Delta R.T. 0.05 min

Lab File: VU041711.D

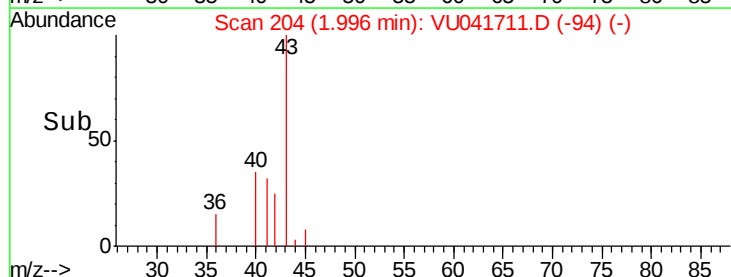
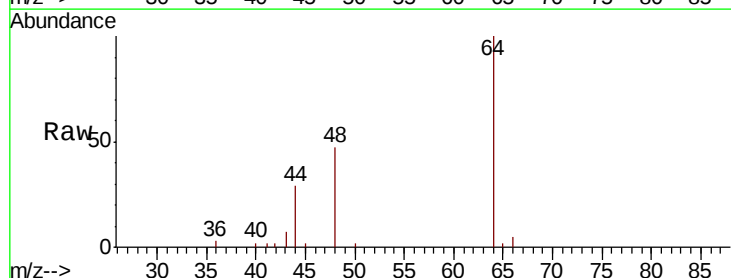
Acq: 21 Dec 2020 19:29

Tgt Ion: 64 Resp: 705

Ion Ratio Lower Upper

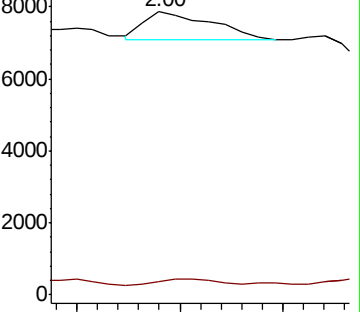
64 100

66 4.6 21.6 40.0#

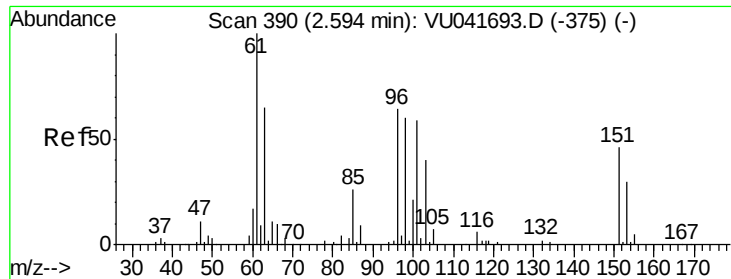


Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



Time-->



#10

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

Concen: 0.053 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.02 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

Instrument :

MSVOA\_U

ClientSampled :

GB248

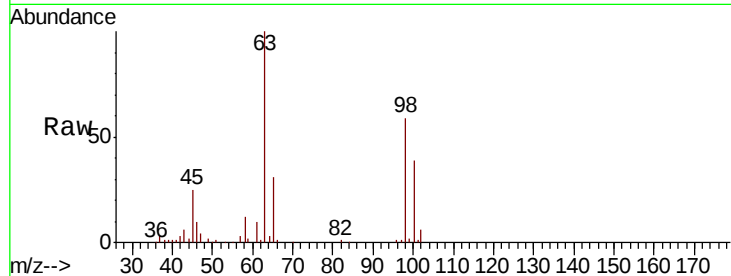
Tot Ion:101 Resp: 491

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

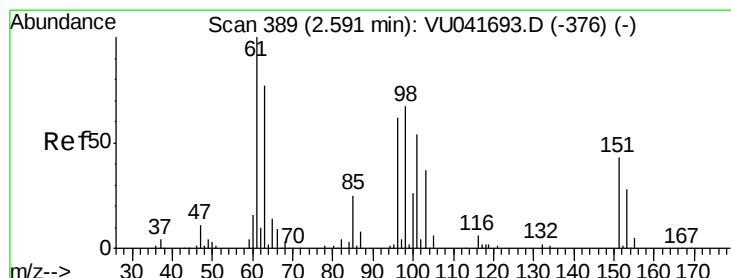
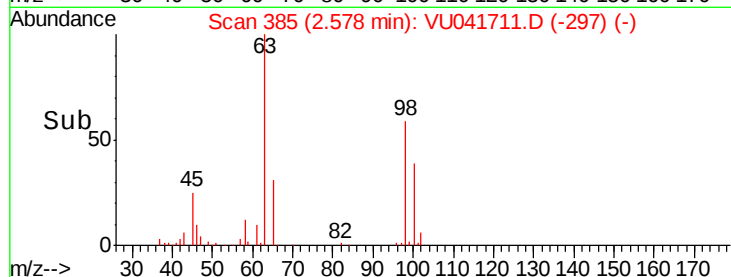
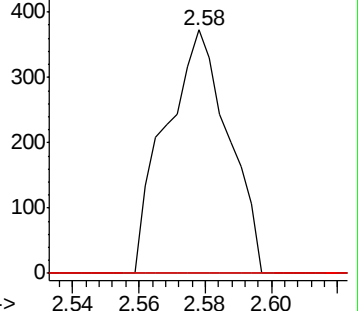
151 0.0 56.2 84.4#



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# 386

Delta R.T. -0.01 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

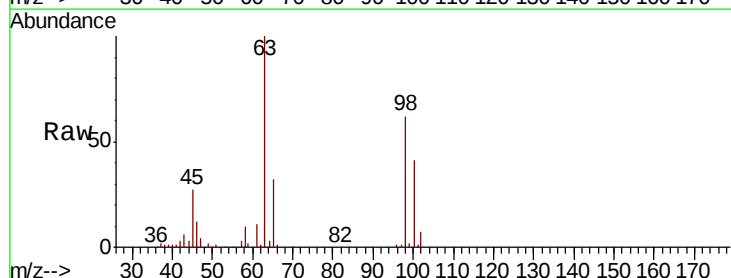
Tgt Ion: 96 Resp: 518

Ion Ratio Lower Upper

96 100

61 986.5 123.8 230.0#

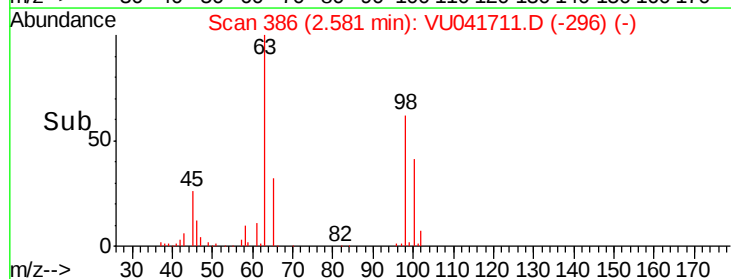
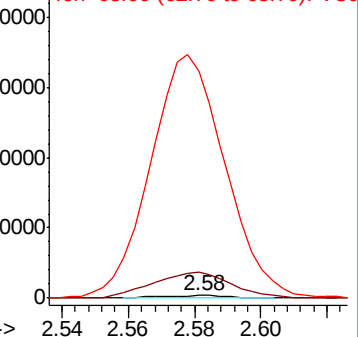
63 8761.1 81.0 150.4#

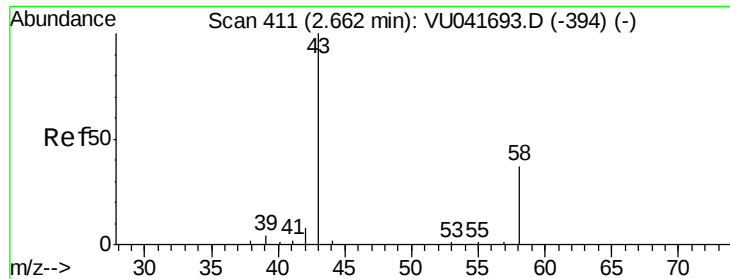


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 5.969 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

Instrument :

MSVOA\_U

ClientSampleId :

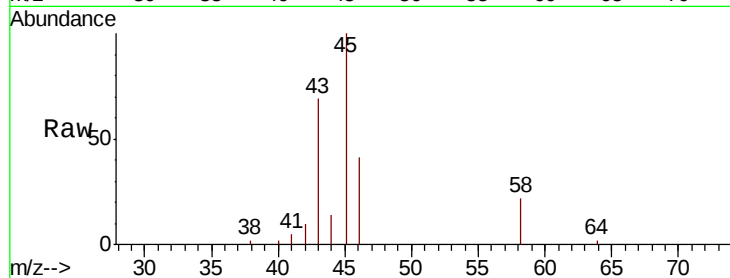
GB248

Tot Ion: 43 Resp: 11571

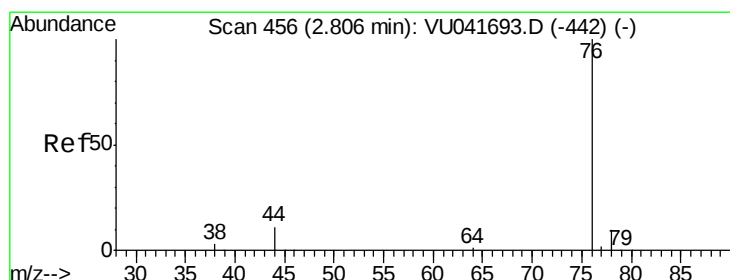
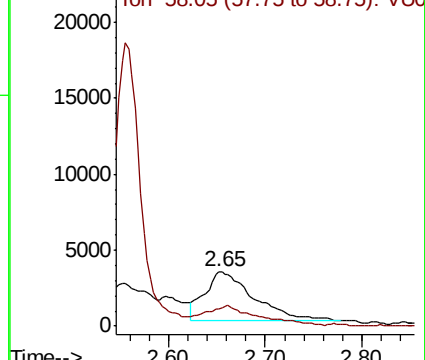
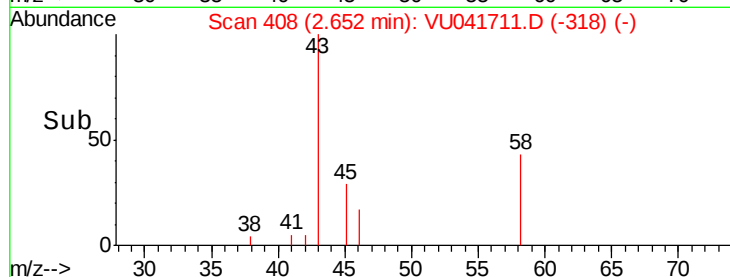
Ion Ratio Lower Upper

43 100

58 47.2 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041711.D (-318) (-)



#14

Carbon disulfide

Concen: 0.054 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU041711.D

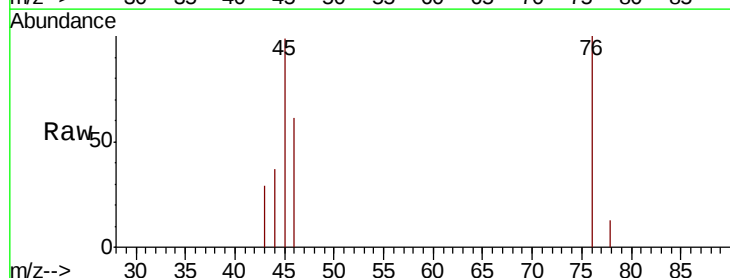
Acq: 21 Dec 2020 19:29

Tgt Ion: 76 Resp: 1725

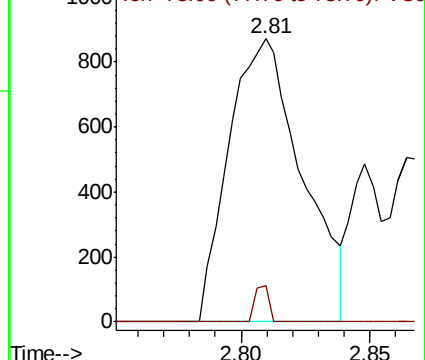
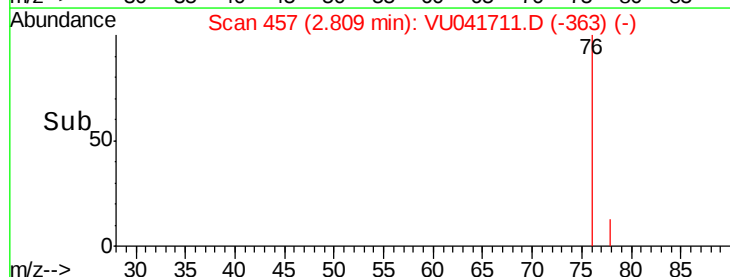
Ion Ratio Lower Upper

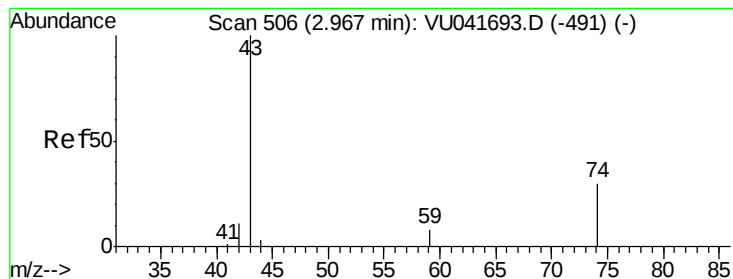
76 100

78 13.1 7.4 11.2#



Abundance Ion 76.05 (75.75 to 76.75): VU041711.D (-363) (-)





#15

Methyl Acetate

Concen: 0.432 ug/L

RT: 2.97 min Scan# 506

Delta R.T. -0.00 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

Instrument :

MSVOA\_U

ClientSampled :

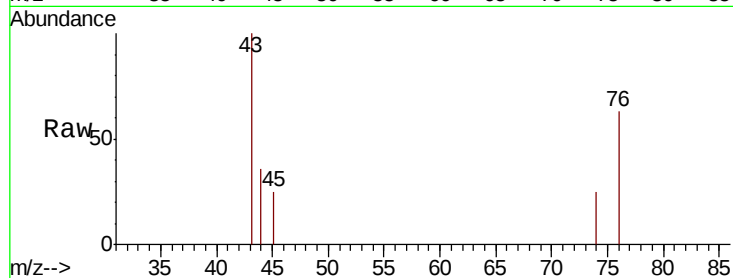
GB248

Tot Ion: 43 Resp: 2175

Ion Ratio Lower Upper

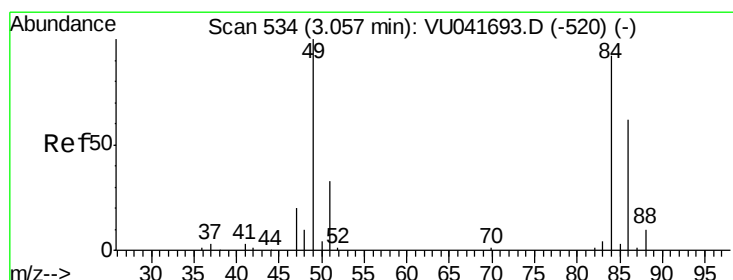
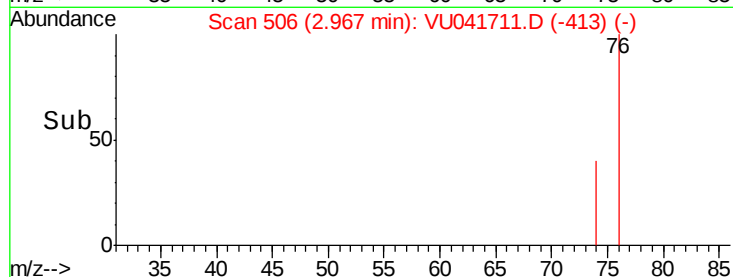
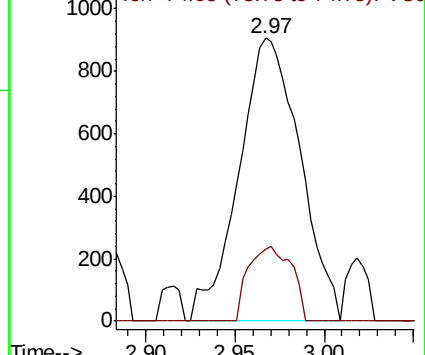
43 100

74 18.6 19.2 28.8#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 0.147 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

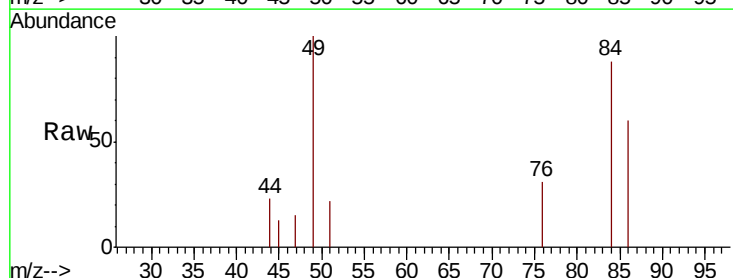
Tgt Ion: 84 Resp: 1611

Ion Ratio Lower Upper

84 100

86 68.6 45.1 83.7

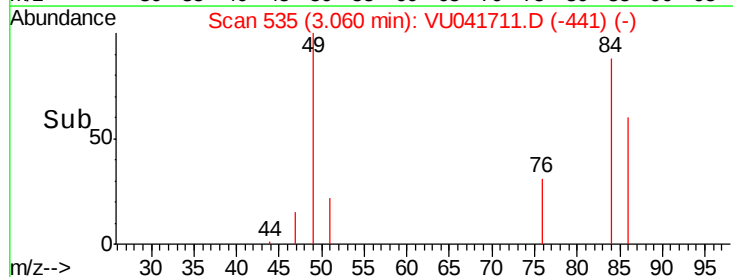
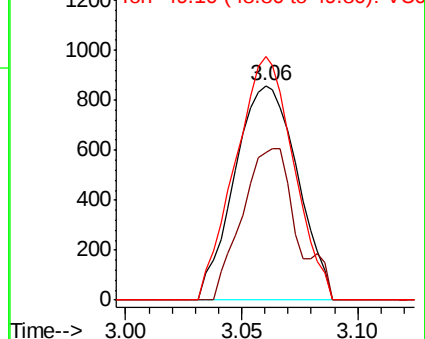
49 113.6 83.1 154.3

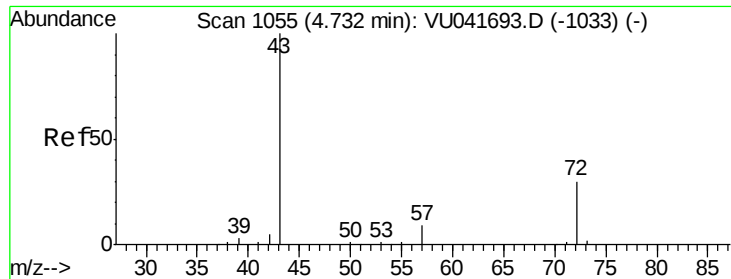


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





#21

2-Butanone

Concen: 1.005 ug/L

RT: 4.73 min Scan# 1054

Delta R.T. -0.00 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

Instrument :

MSVOA\_U

ClientSampled :

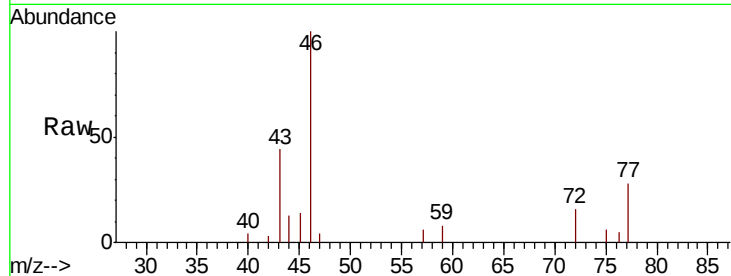
GB248

Tot Ion: 43 Resp: 3173

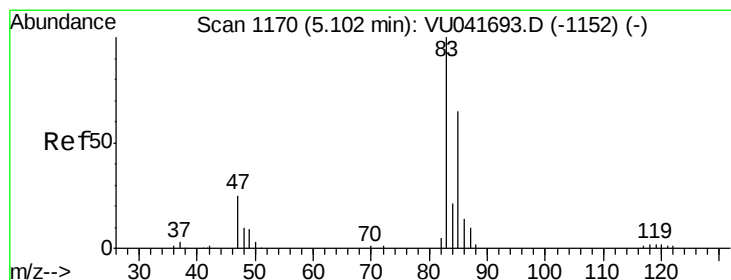
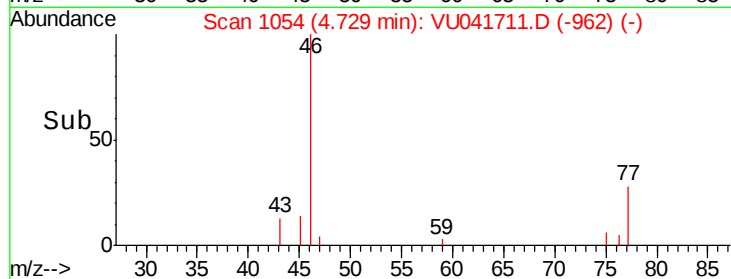
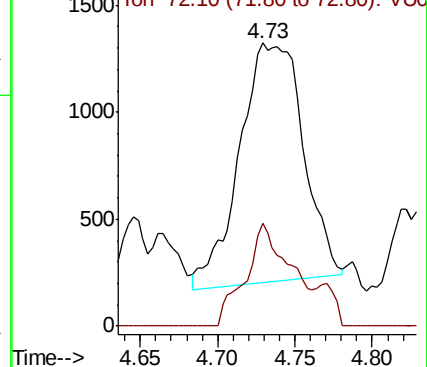
Ion Ratio Lower Upper

43 100

72 30.6 14.6 44.0



Abundance Ion 43.05 (42.75 to 43.75): VU041711.D (-962) (-)



#25

Chloroform

Concen: 0.324 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU041711.D

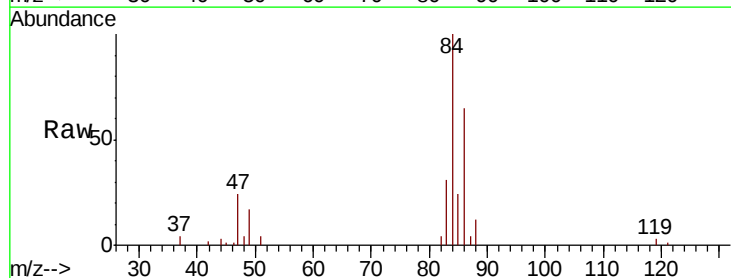
Acq: 21 Dec 2020 19:29

Tgt Ion: 83 Resp: 5799

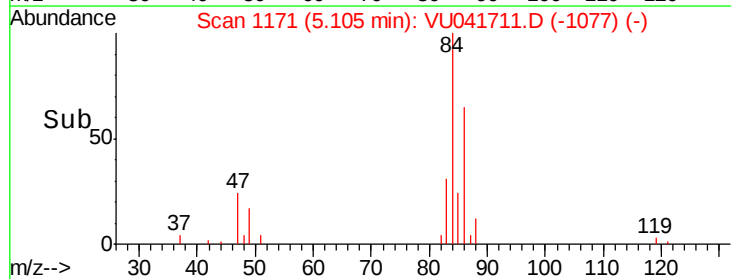
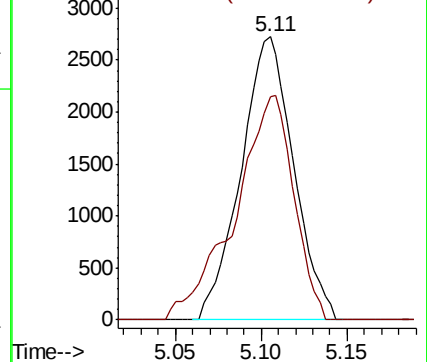
Ion Ratio Lower Upper

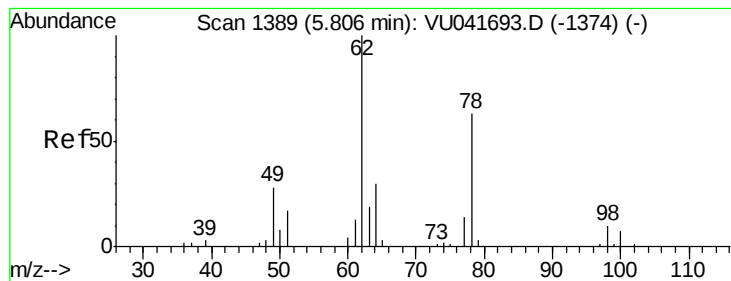
83 100

85 78.9 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU041711.D (-1077) (-)





#27

1,2-Dichloroethane

Concen: 0.074 ug/L

RT: 5.74 min Scan# 1367

Delta R.T. -0.07 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

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MSVOA\_U

ClientSampleID :

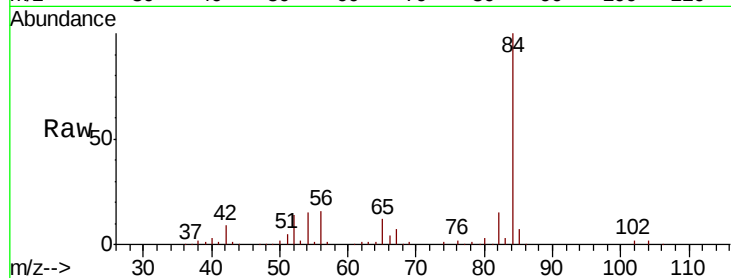
GB248

Tot Ion: 62 Resp: 902

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU041711.D (-1296) (-)

Ion 98.05 (97.75 to 98.75): VU041711.D (-1296) (-)

5.74

5.75

5.76

5.77

5.78

5.79

5.80

5.81

5.82

5.83

5.84

5.85

5.86

5.87

5.88

5.89

5.90

5.91

5.92

5.93

5.94

5.95

5.96

5.97

5.98

5.99

6.00

6.01

6.02

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6.53

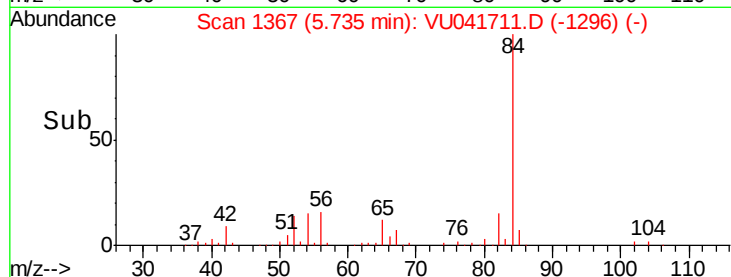
6.54

6.55

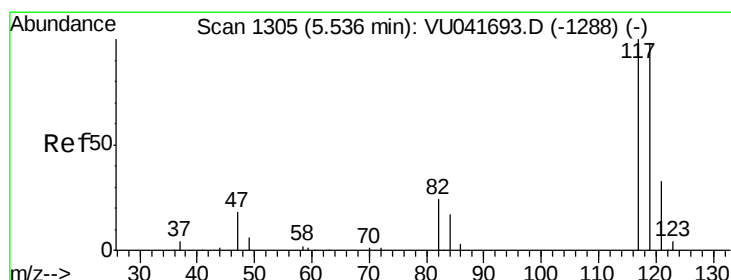
6.56

6.57

6.58



Time-->



#31

Carbon tetrachloride

Concen: 0.047 ug/L

RT: 5.54 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VU041711.D

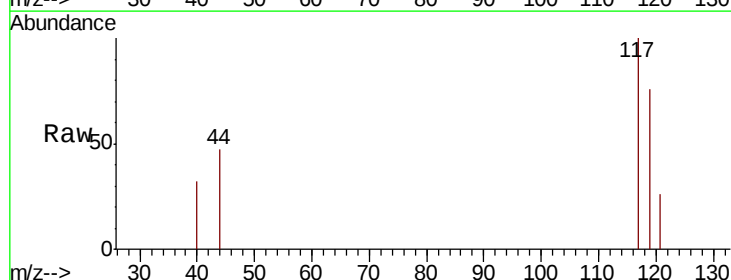
Acq: 21 Dec 2020 19:29

Tgt Ion: 117 Resp: 590

Ion Ratio Lower Upper

117 100

119 91.5 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): VU041711.D (-1212) (-)

Ion 118.90 (118.60 to 119.60): VU041711.D (-1212) (-)

5.54

5.55

5.56

5.57

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5.60

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5.79

5.80

5.81

5.82

5.83

5.84

5.85

5.86

5.87

5.88

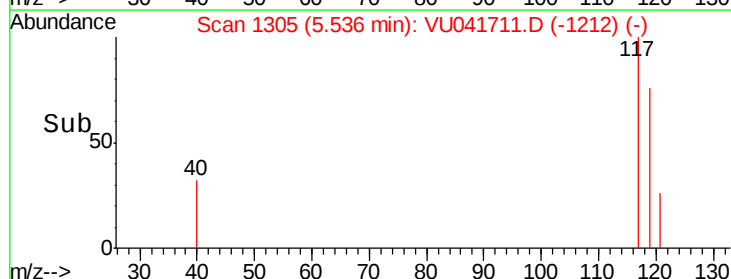
5.89

5.90

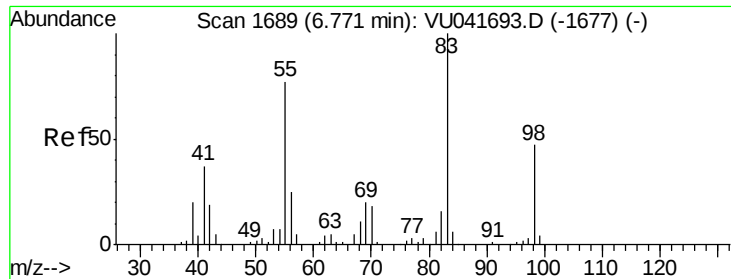
5.91

5.92

5.93



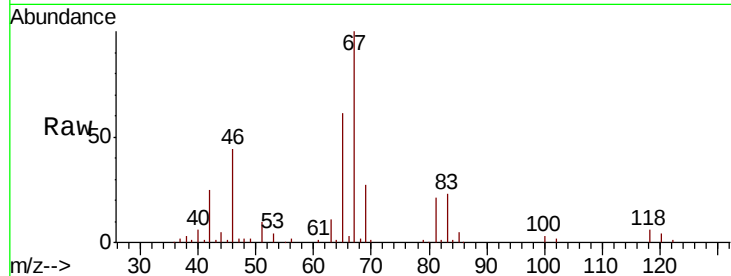
Time-->



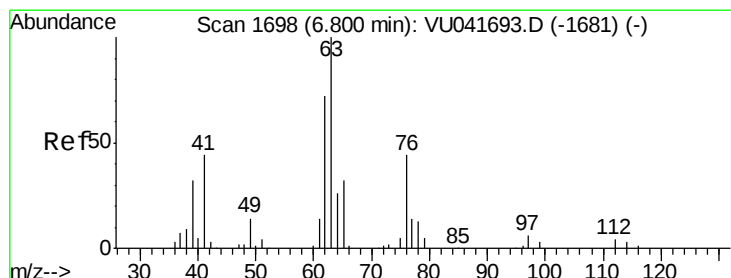
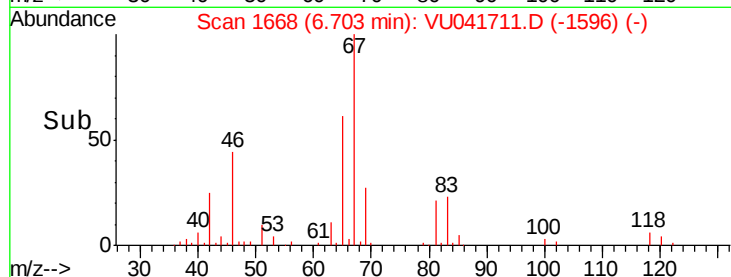
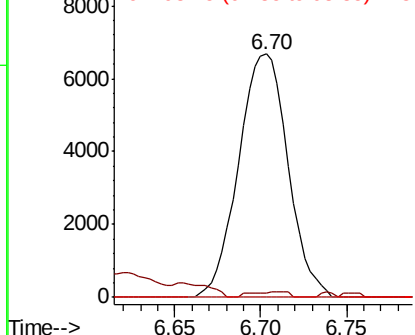
#35  
Methvlcvclohexane  
Concen: 0.808 ug/L  
RT: 6.70 min Scan# 1668  
Delta R.T. -0.07 min  
Lab File: VU041711.D  
Acq: 21 Dec 2020 19:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 1.7   | 61.2  | 91.8# |
| 98      | 0.0   | 36.6  | 54.8# |

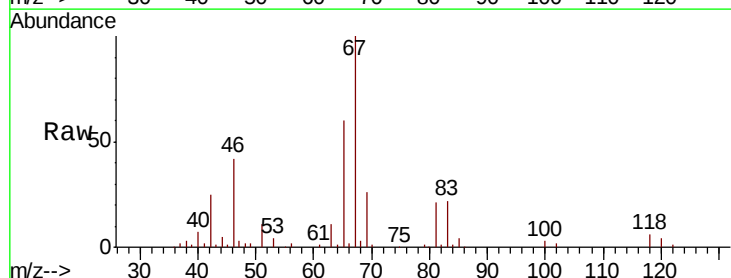


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

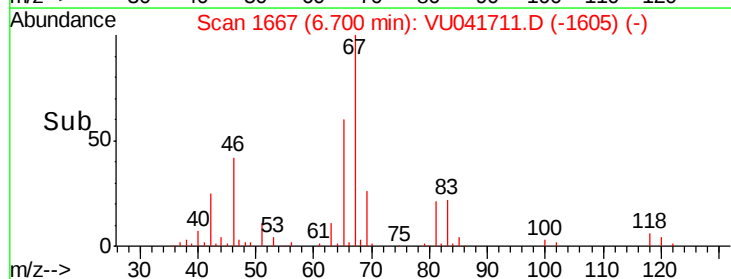
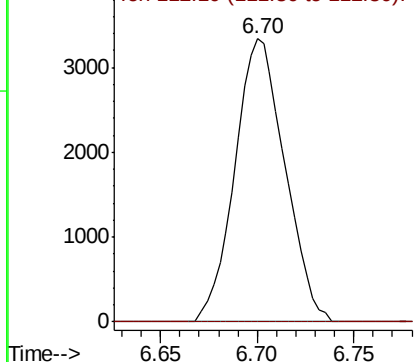


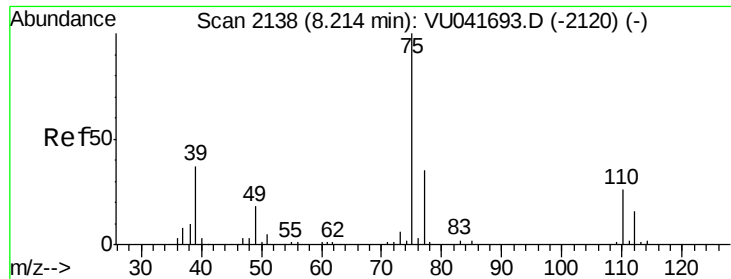
#37  
1,2-Dichloropropane  
Concen: 0.578 ug/L  
RT: 6.70 min Scan# 1667  
Delta R.T. -0.10 min  
Lab File: VU041711.D  
Acq: 21 Dec 2020 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 112     | 0.0   | 3.1   | 4.7#  |



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V

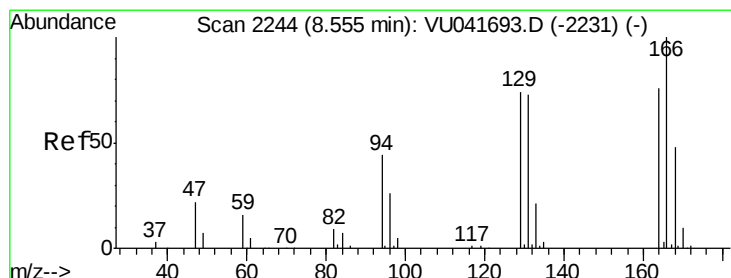
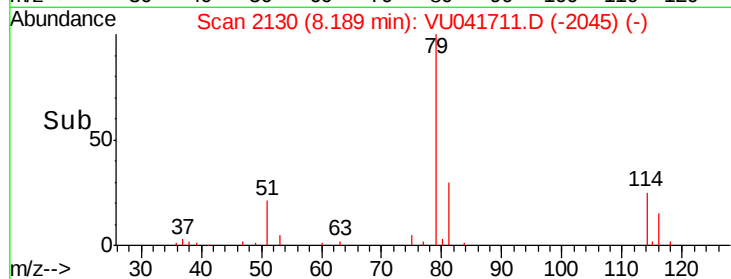
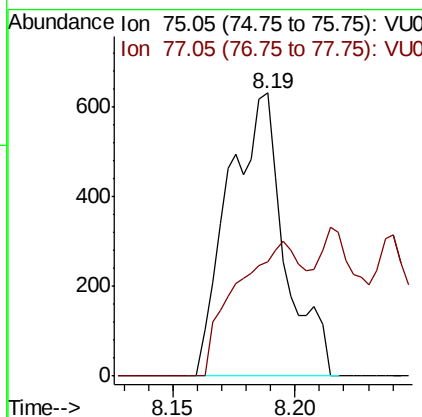
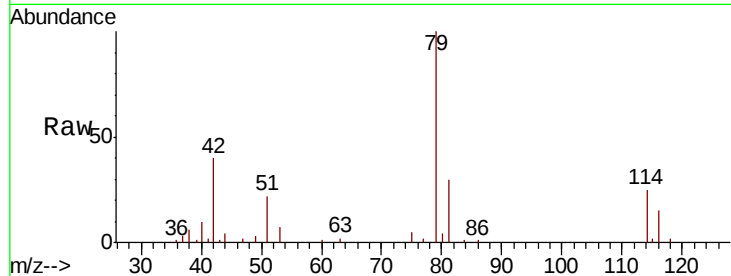




#44  
trans-1,3-Dichloropropene  
Concen: 0.073 ug/L  
RT: 8.19 min Scan# 2130  
Delta R.T. -0.03 min  
Lab File: VU041711.D  
Acq: 21 Dec 2020 19:29

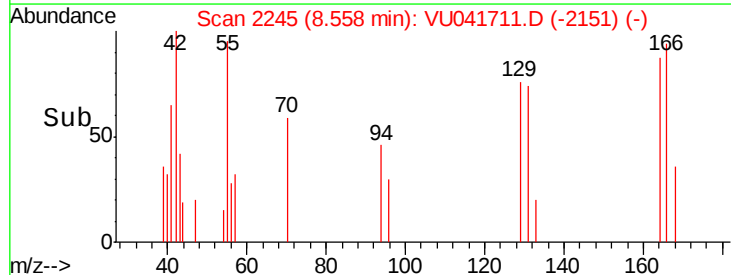
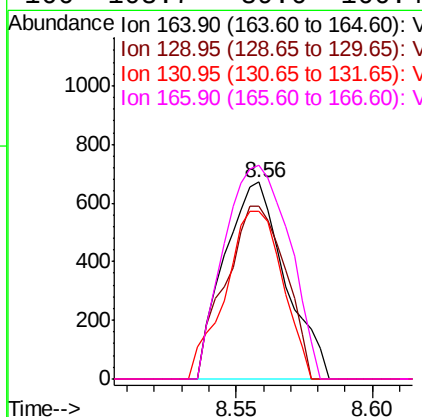
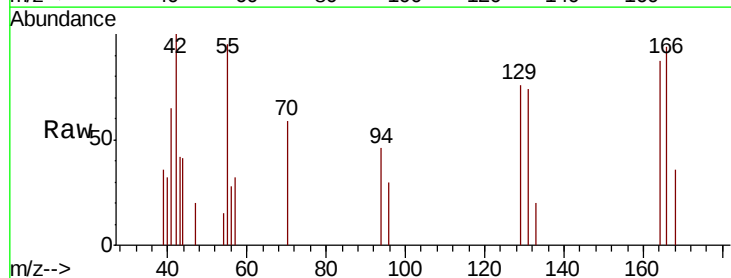
Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

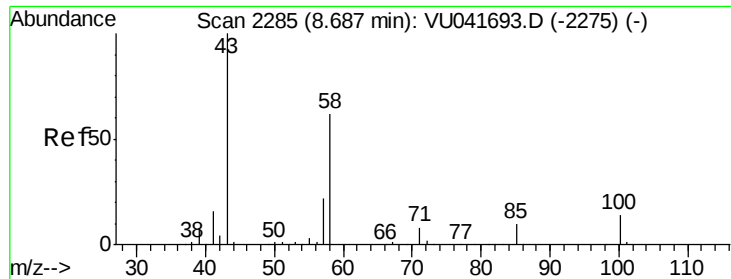
Tot Ion: 75 Resp: 1006  
Ion Ratio Lower Upper  
75 100  
77 40.3 23.8 44.2



#47  
Tetrachloroethene  
Concen: 0.146 ug/L  
RT: 8.56 min Scan# 2245  
Delta R.T. 0.00 min  
Lab File: VU041711.D  
Acq: 21 Dec 2020 19:29

Tgt Ion:164 Resp: 1038  
Ion Ratio Lower Upper  
164 100  
129 87.6 72.2 134.0  
131 85.2 66.9 124.3  
166 108.7 89.6 166.4

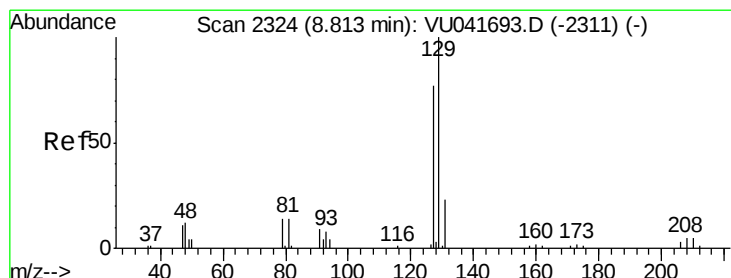
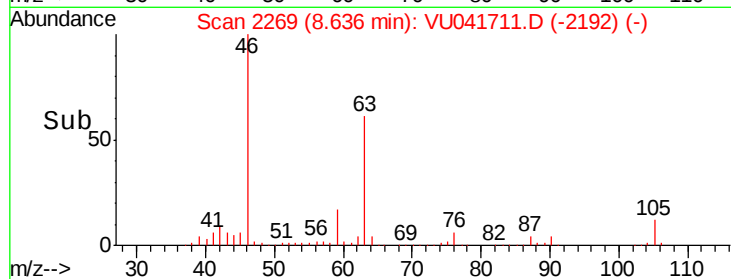
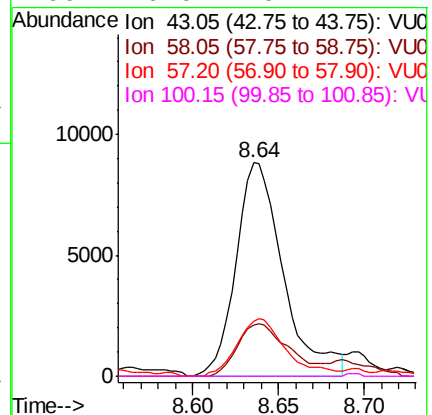
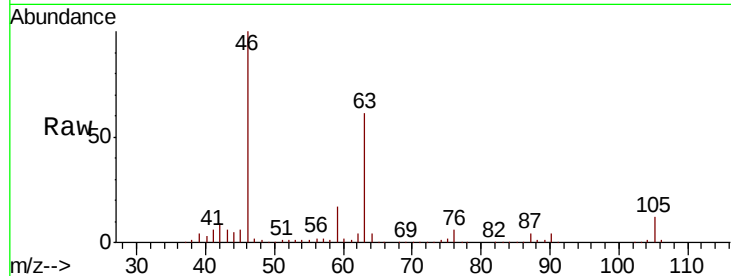




#48  
2-Hexanone  
Concen: 3.161 ug/L  
RT: 8.64 min Scan# 2269  
Delta R.T. -0.05 min  
Lab File: VU041711.D  
Acq: 21 Dec 2020 19:29

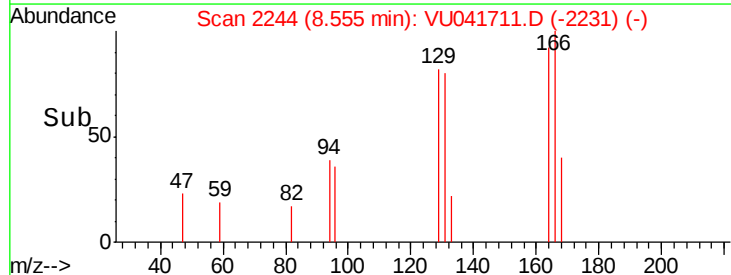
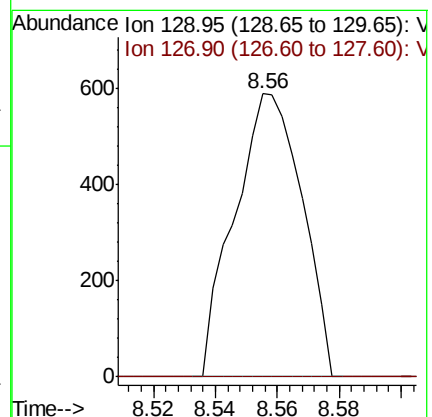
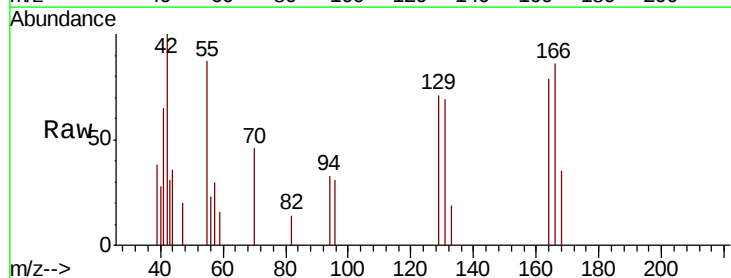
Instrument :  
MSVOA\_U  
ClientSampleId :  
GB248

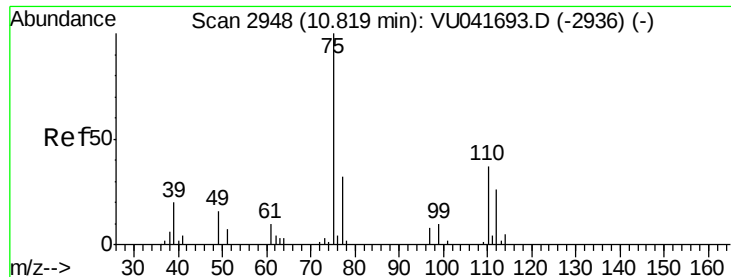
Tot Ion: 43 Resp: 16970  
Ion Ratio Lower Upper  
43 100  
58 25.9 47.9 71.9#  
57 27.8 16.5 24.7#  
100 0.0 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 0.102 ug/L  
RT: 8.56 min Scan# 2244  
Delta R.T. -0.26 min  
Lab File: VU041711.D  
Acq: 21 Dec 2020 19:29

Tgt Ion: 129 Resp: 895  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.7 101.7#





#59

1,2,3-Trichloropropane

Concen: 0.936 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041711.D

Acq: 21 Dec 2020 19:29

Instrument :

MSVOA\_U

ClientSampleId :

GB248

Tot Ion: 75 Resp: 7290

Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2

