

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100620\  
 Data File : VU040536.D  
 Acq On : 06 Oct 2020 18:59  
 Operator : SY/MD  
 Sample : L4485-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 MDL-WATER-04

Quant Time: Oct 07 08:48:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUL100620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 07 08:04:20 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 275898   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 276123   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 126939   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60    | 65    | 111180   | 46.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.84%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 88282    | 48.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.82%  |
| 11) 1,1-Dichloroethene-d2      | 2.58    | 63    | 163686   | 36.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.40%  |
| 21) 2-Butanone-d5              | 4.64    | 46    | 194325   | 103.34   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.34% |
| 24) Chloroform-d               | 5.08    | 84    | 198125   | 48.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 96.96%  |
| 26) 1,2-Dichloroethane-d4      | 5.72    | 65    | 140346   | 49.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.62%  |
| 32) Benzene-d6                 | 5.75    | 84    | 386503   | 49.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.36%  |
| 36) 1,2-Dichloropropane-d6     | 6.70    | 67    | 128852   | 48.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.84%  |
| 41) Toluene-d8                 | 7.91    | 98    | 335312   | 47.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.14%  |
| 43) trans-1,3-Dichloropropene- | 8.19    | 79    | 62980    | 47.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.54%  |
| 47) 2-Hexanone-d5              | 8.64    | 63    | 124194   | 101.15   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 101.15% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.75   | 84    | 181420   | 47.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.38%  |
| 66) 1,2-Dichlorobenzene-d4     | 12.19   | 152   | 130233   | 50.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.82% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 6698  | 2.521 ug/L   | 96     |
| 3) Chloromethane               | 1.53 | 50  | 6954  | 2.491 ug/L   | 97     |
| 5) Vinyl chloride              | 1.61 | 62  | 6935  | 2.509 ug/L # | 58     |
| 6) Bromomethane                | 1.86 | 94  | 3405  | 2.347 ug/L   | 99     |
| 8) Chloroethane                | 1.94 | 64  | 4361  | 2.615 ug/L   | 93     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 8354  | 2.356 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 6280  | 2.971 ug/L   | 94     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 5632  | 2.882 ug/L # | 1      |
| 13) Acetone                    | 2.64 | 43  | 7604  | 4.211 ug/L   | 92     |
| 14) Carbon disulfide           | 2.81 | 76  | 16384 | 2.442 ug/L   | 100    |
| 15) Methyl Acetate             | 2.96 | 43  | 7529  | 2.556 ug/L   | 97     |
| 16) Methylene chloride         | 3.06 | 84  | 5992  | 2.586 ug/L   | 88     |
| 17) trans-1,2-Dichloroethene   | 3.37 | 96  | 4633  | 2.226 ug/L   | 94     |
| 18) Methyl tert-butyl Ether    | 3.38 | 73  | 15341 | 2.343 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 9653  | 2.325 ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 4.69 | 96  | 5641  | 2.515 ug/L   | 97     |
| 22) 2-Butanone                 | 4.73 | 43  | 10489 | 4.553 ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100620\  
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 Acq On : 06 Oct 2020 18:59  
 Operator : SY/MD  
 Sample : L4485-11  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

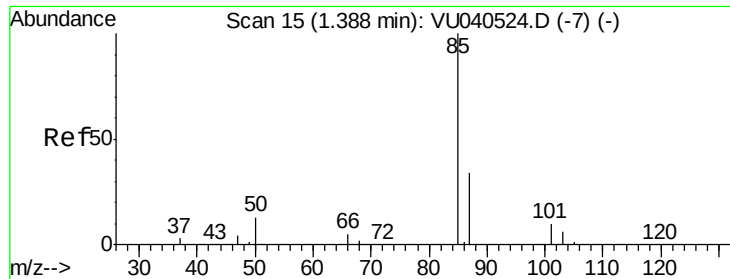
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

Quant Time: Oct 07 08:48:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUL100620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Oct 07 08:04:20 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| -----                          |       |      |          |       |        |          |
| 23) Bromochloromethane         | 4.99  | 128  | 2781m    | 2.379 | ug/L   |          |
| 25) Chloroform                 | 5.11  | 83   | 13220    | 3.123 | ug/L   | 95       |
| 27) 1,2-Dichloroethane         | 5.81  | 62   | 9256     | 2.650 | ug/L # | 93       |
| 29) Cyclohexane                | 5.41  | 56   | 8123     | 2.197 | ug/L   | 97       |
| 30) 1,1,1-Trichloroethane      | 5.33  | 97   | 8714     | 2.457 | ug/L   | 97       |
| 31) Carbon tetrachloride       | 5.54  | 117  | 7014m    | 2.287 | ug/L   |          |
| 33) Benzene                    | 5.79  | 78   | 22239    | 2.492 | ug/L   | 100      |
| 34) Trichloroethene            | 6.56  | 95   | 5740     | 2.497 | ug/L   | 96       |
| 35) Methylcyclohexane          | 6.77  | 83   | 8016     | 2.293 | ug/L   | 97       |
| 37) 1,2-Dichloropropane        | 6.81  | 63   | 5920     | 2.415 | ug/L   | 98       |
| 38) Bromodichloromethane       | 7.11  | 83   | 7519     | 2.362 | ug/L   | 90       |
| 39) cis-1,3-Dichloropropene    | 7.61  | 75   | 8502     | 2.367 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 7.80  | 43   | 18042    | 4.665 | ug/L # | 94       |
| 42) Toluene                    | 7.98  | 91   | 22271    | 2.444 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 8.22  | 75   | 8785     | 2.429 | ug/L   | 92       |
| 45) 1,1,2-Trichloroethane      | 8.40  | 97   | 5331     | 2.428 | ug/L   | 95       |
| 46) Tetrachloroethene          | 8.56  | 164  | 4258     | 2.563 | ug/L   | 88       |
| 48) 2-Hexanone                 | 8.69  | 43   | 18500    | 5.886 | ug/L   | 97       |
| 49) Dibromochloromethane       | 8.82  | 129  | 5769     | 2.406 | ug/L   | 90       |
| 50) 1,2-Dibromoethane          | 8.92  | 107  | 5725     | 2.460 | ug/L   | 98       |
| 51) Chlorobenzene              | 9.45  | 112  | 14376    | 2.405 | ug/L   | 96       |
| 52) Ethylbenzene               | 9.57  | 91   | 22369    | 2.212 | ug/L   | 98       |
| 53) m,p-Xylene                 | 9.70  | 106  | 8375     | 2.249 | ug/L   | 100      |
| 54) o-xylene                   | 10.10 | 106  | 7504     | 2.118 | ug/L   | 93       |
| 55) Styrene                    | 10.11 | 104  | 11529    | 1.847 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 9974     | 2.569 | ug/L # | 98       |
| 59) Bromoform                  | 10.29 | 173  | 3733     | 2.399 | ug/L   | 93       |
| 60) 1,2,3-Trichloropropane     | 10.82 | 75   | 7785     | 2.700 | ug/L   | 97       |
| 61) Isopropylbenzene           | 10.48 | 105  | 18432    | 2.162 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene     | 11.09 | 105  | 13745    | 1.962 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene     | 11.47 | 105  | 13568    | 1.910 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene        | 11.74 | 146  | 10401    | 2.502 | ug/L   | 95       |
| 65) 1,4-Dichlorobenzene        | 11.83 | 146  | 11182    | 2.561 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene        | 12.21 | 146  | 11509    | 2.764 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 1974     | 2.437 | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 6612     | 2.428 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene     | 13.83 | 180  | 5051     | 2.140 | ug/L   | 91       |
| 71) Naphthalene                | 14.08 | 128  | 10952    | 1.501 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 4895     | 2.089 | ug/L   | 94       |
| -----                          |       |      |          |       |        |          |

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





#2

Dichlorodifluoromethane

Concen: 2.521 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

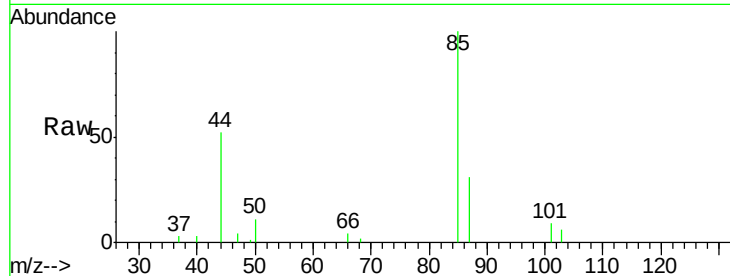
MDL-WATER-04

Tot Ion: 85 Resp: 6698

Ion Ratio Lower Upper

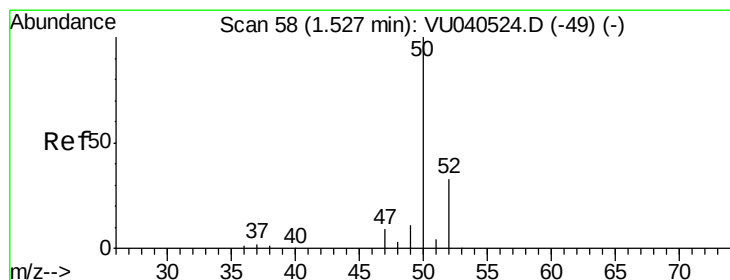
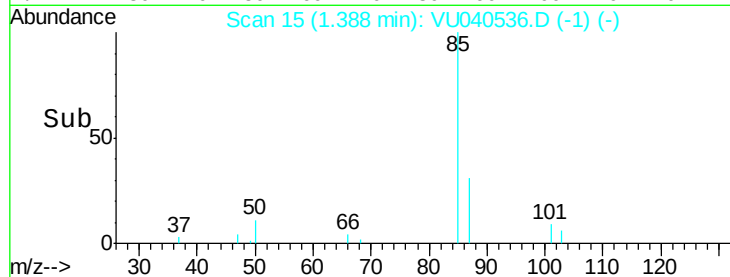
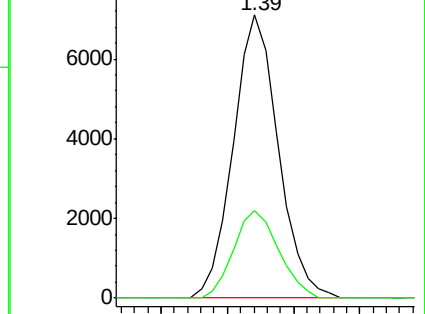
85 100

87 31.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU040524.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU040524.D (-7) (-)



#3

Chloromethane

Concen: 2.491 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040536.D

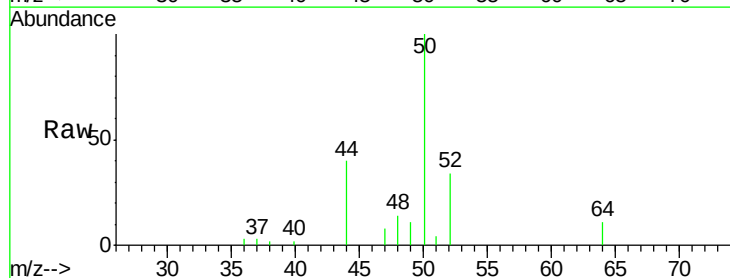
Acq: 06 Oct 2020 18:59

Tgt Ion: 50 Resp: 6954

Ion Ratio Lower Upper

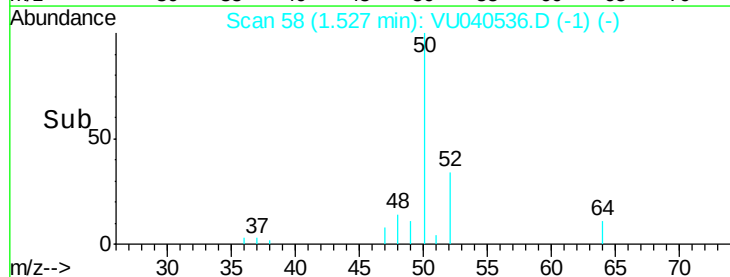
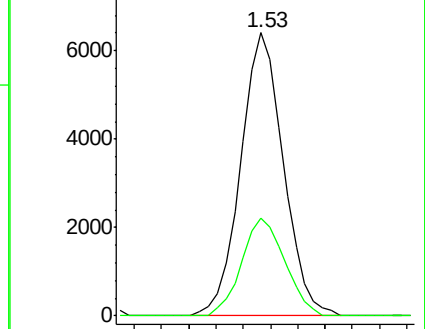
50 100

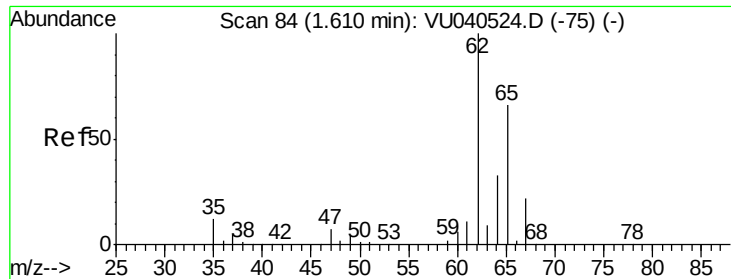
52 34.4 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU040524.D (-49) (-)

Ion 52.00 (51.70 to 52.70): VU040524.D (-49) (-)





#5

Vinyl chloride

Concen: 2.509 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

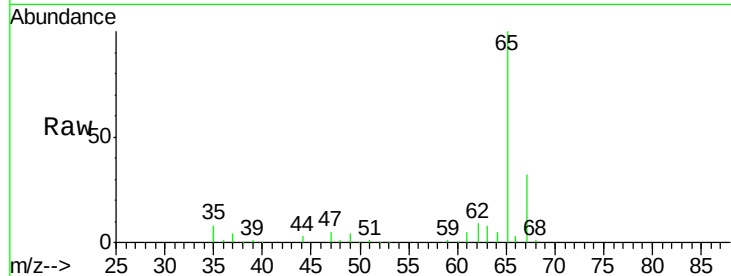
MDL-WATER-04

Tot Ion: 62 Resp: 6935

Ion Ratio Lower Upper

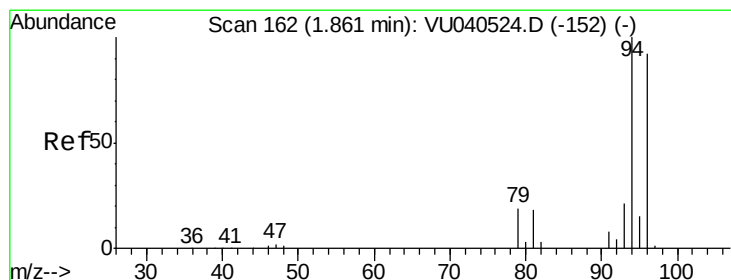
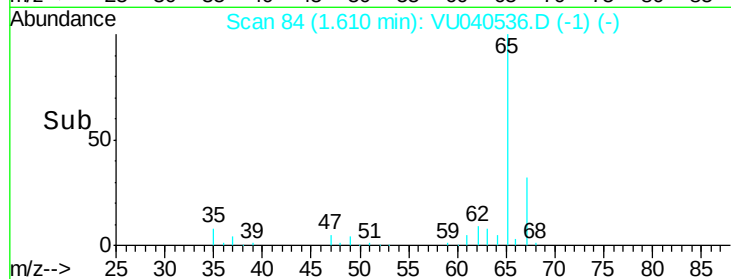
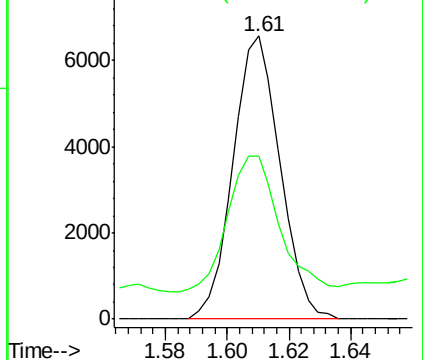
62 100

64 57.6 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.347 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU040536.D

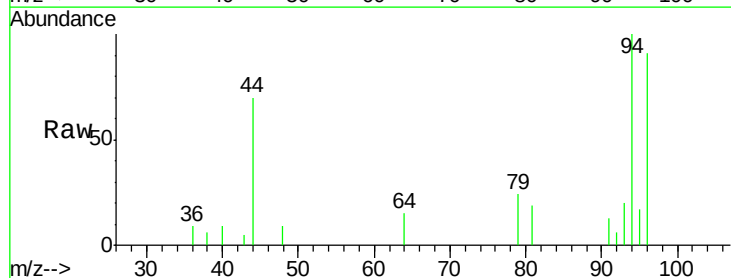
Acq: 06 Oct 2020 18:59

Tgt Ion: 94 Resp: 3405

Ion Ratio Lower Upper

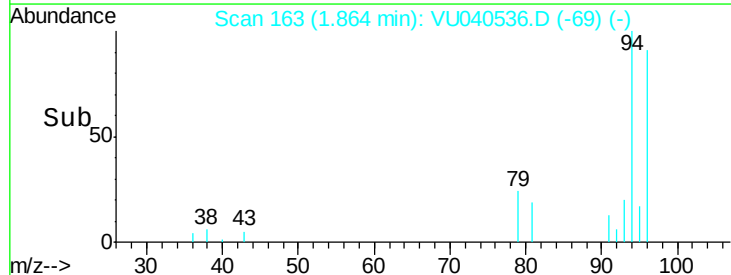
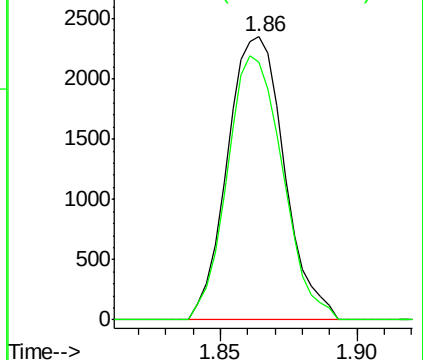
94 100

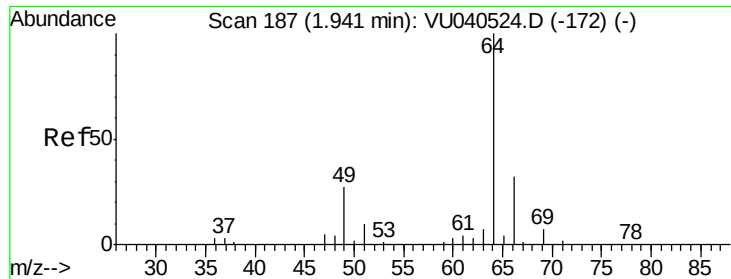
96 91.1 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

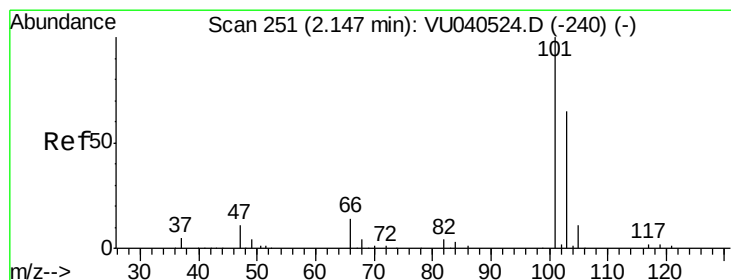
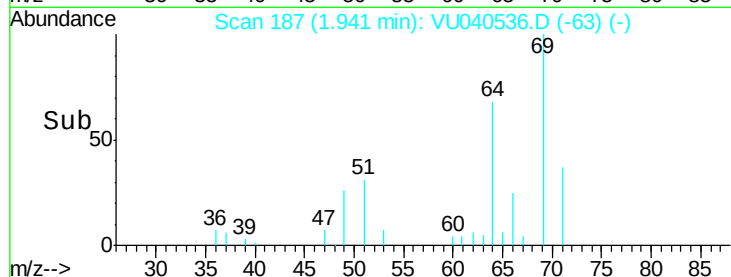
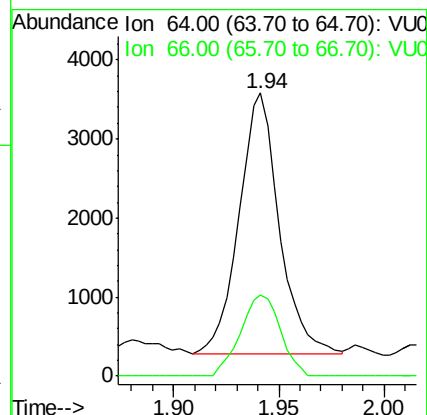
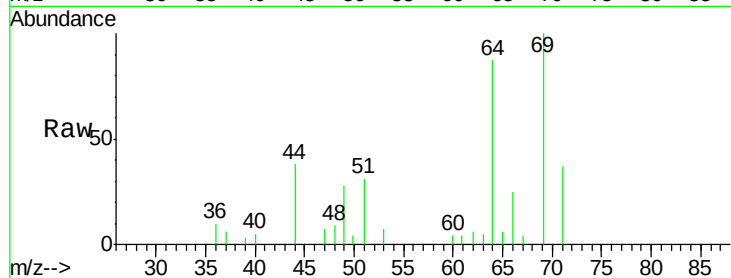




#8  
Chloroethane  
Concen: 2.615 ug/L  
RT: 1.94 min Scan# 187  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

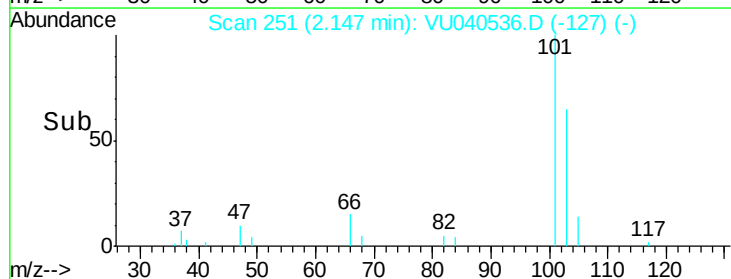
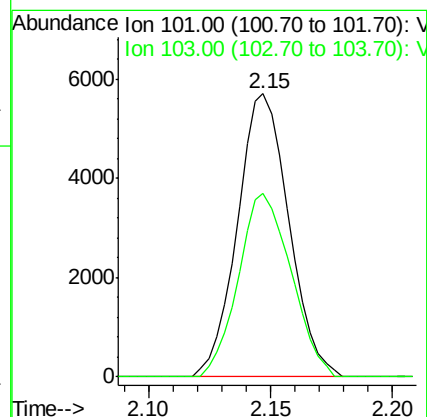
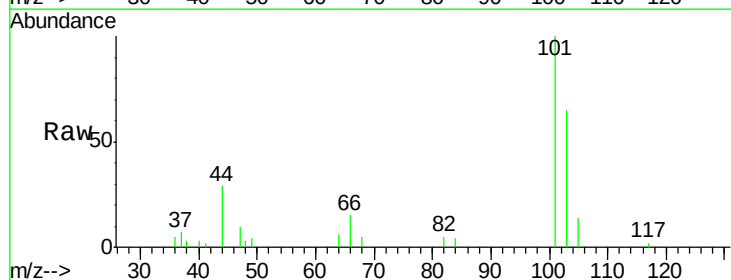
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

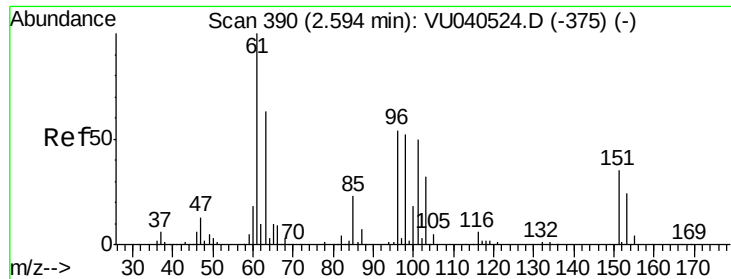
Tot Ion: 64 Resp: 4361  
Ion Ratio Lower Upper  
64 100  
66 28.5 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 2.356 ug/L  
RT: 2.15 min Scan# 251  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Tgt Ion: 101 Resp: 8354  
Ion Ratio Lower Upper  
101 100  
103 66.2 52.1 78.1





#10

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

Concen: 2.971 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-04

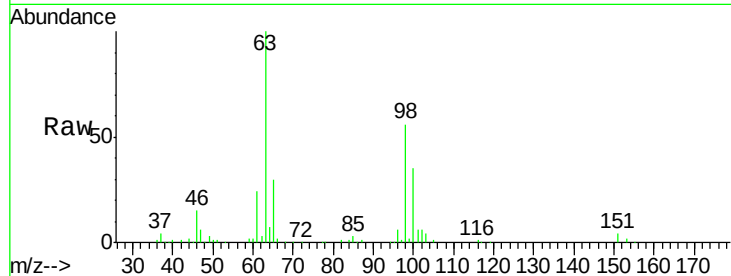
Tot Ion:101 Resp: 6280

Ion Ratio Lower Upper

101 100

85 39.4 35.4 53.2

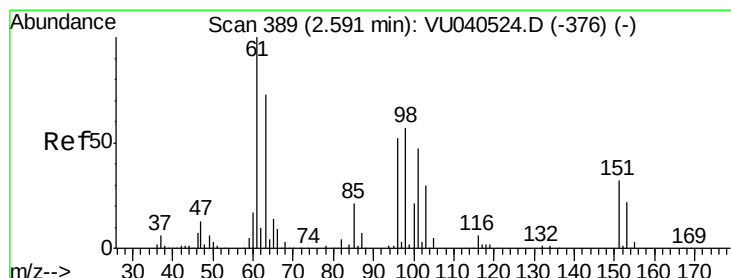
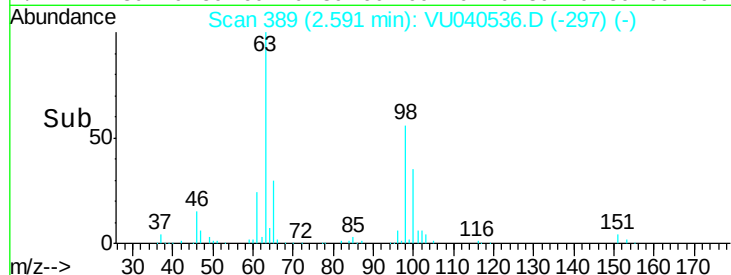
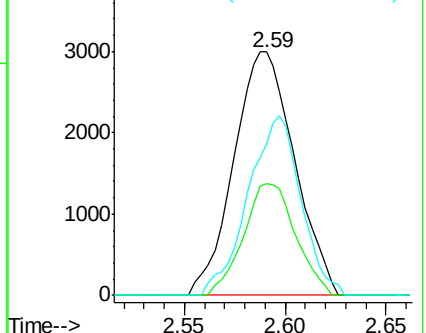
151 64.1 54.8 82.2



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: 2.882 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

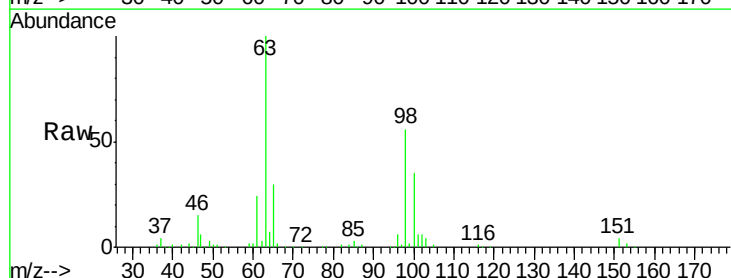
Tgt Ion: 96 Resp: 5632

Ion Ratio Lower Upper

96 100

61 374.5 135.0 250.8#

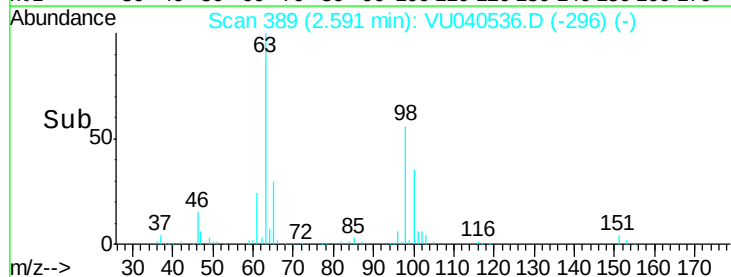
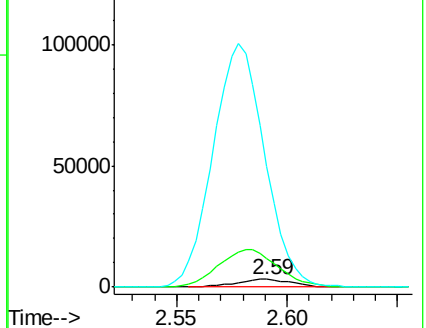
63 1587.3 101.4 188.2#

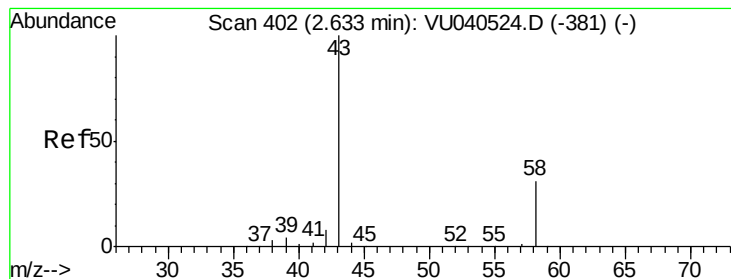


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.211 ug/L

RT: 2.64 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

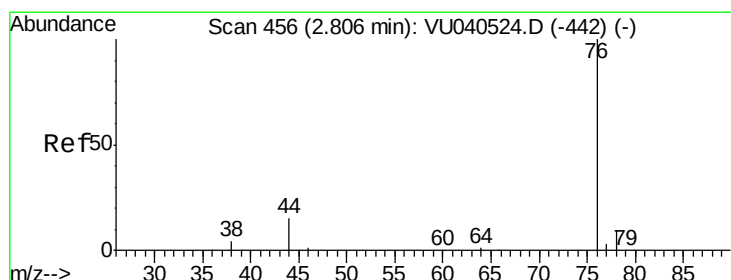
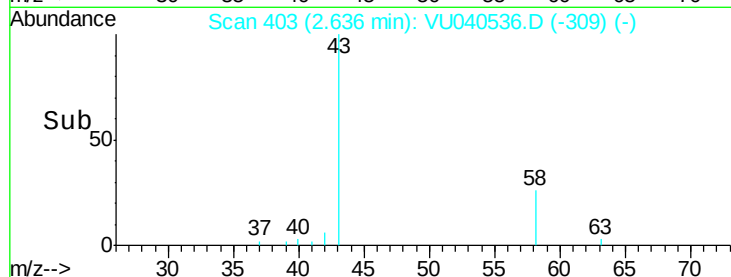
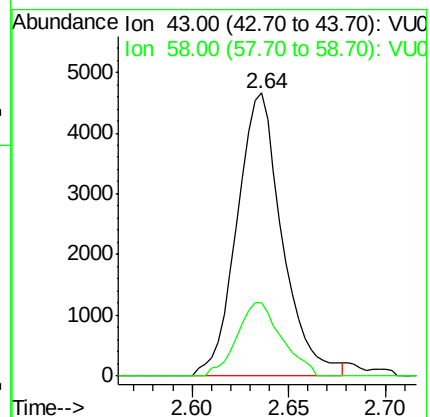
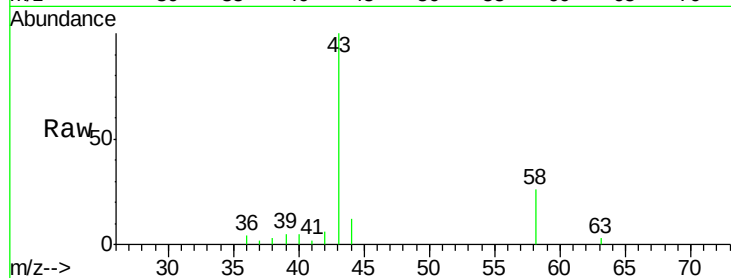
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

Tot Ion: 43 Resp: 7604

Ion Ratio Lower Upper

43 100

58 25.6 0.0 60.2



#14

Carbon disulfide

Concen: 2.442 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU040536.D

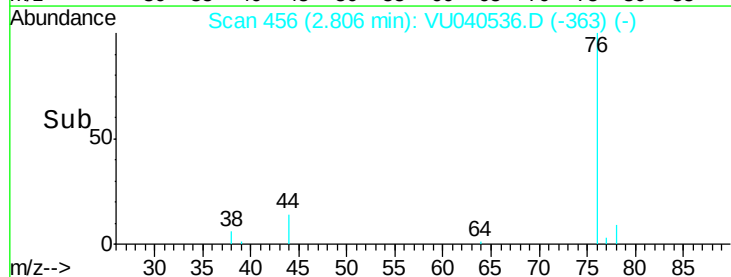
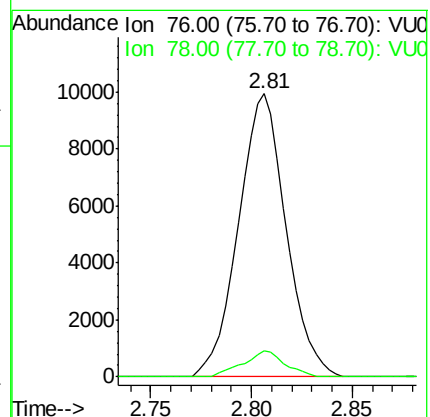
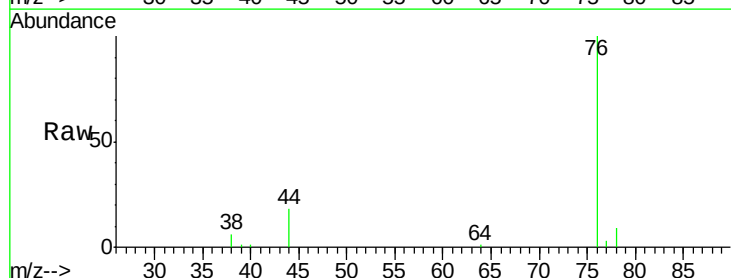
Acq: 06 Oct 2020 18:59

Tgt Ion: 76 Resp: 16384

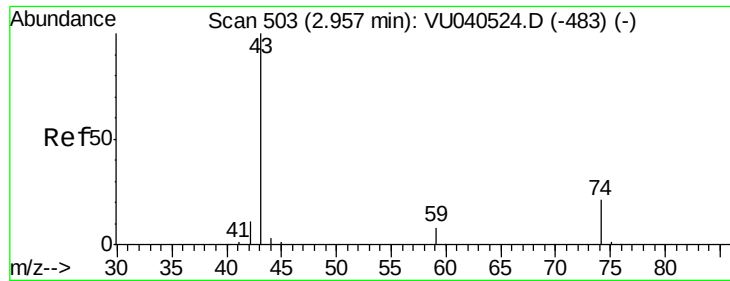
Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



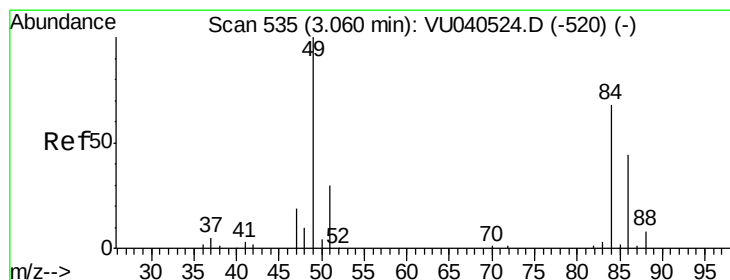
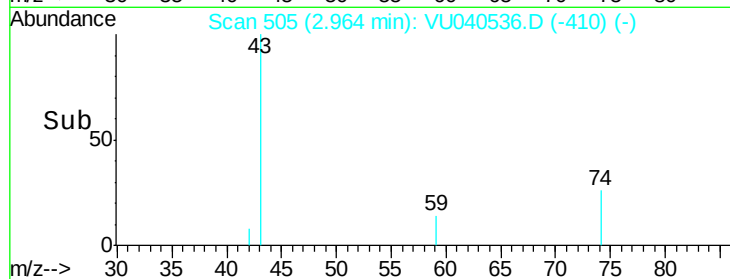
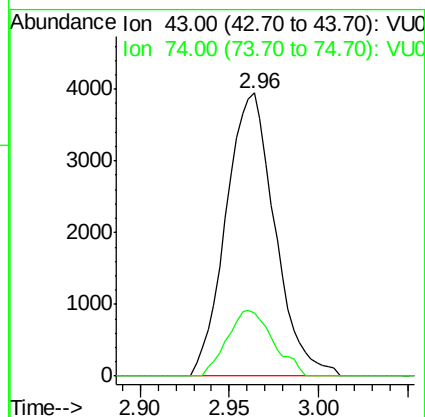
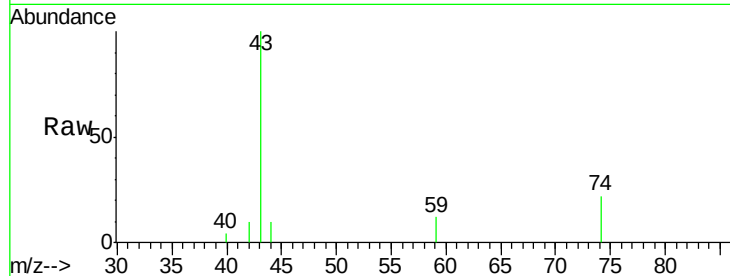




#15  
Methvl Acetate  
Concen: 2.556 ug/L  
RT: 2.96 min Scan# 505  
Delta R.T. 0.01 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

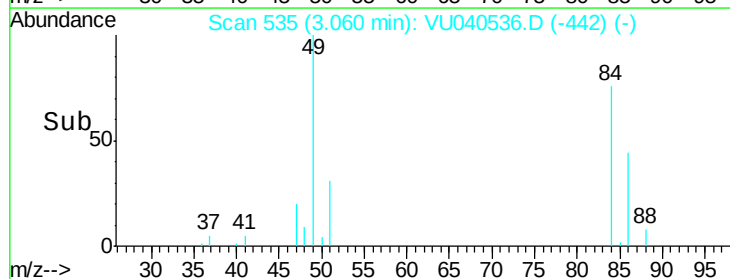
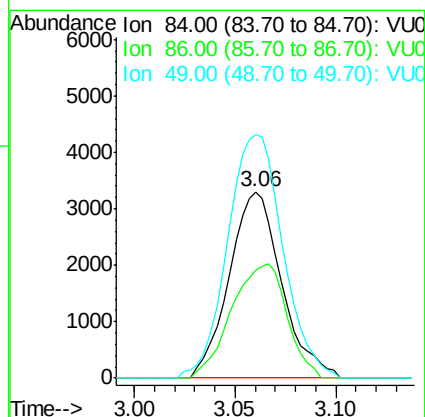
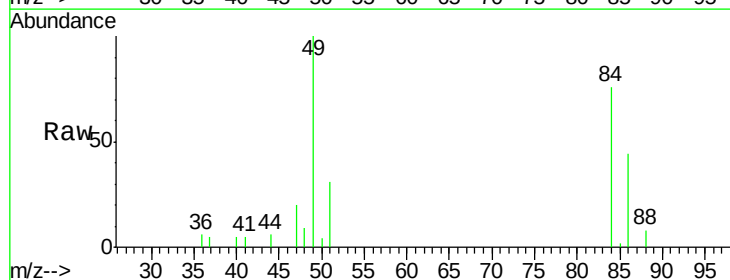
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

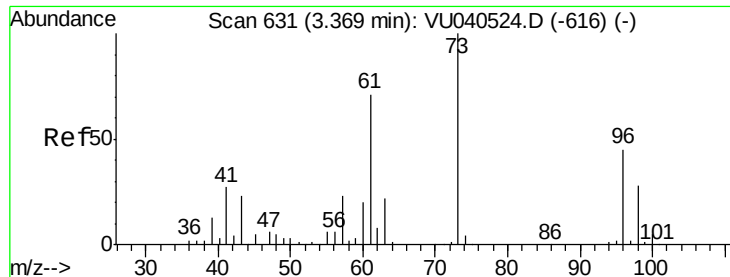
Tot Ion: 43 Resp: 7529  
Ion Ratio Lower Upper  
43 100  
74 21.8 16.4 24.6



#16  
Methylene chloride  
Concen: 2.586 ug/L  
RT: 3.06 min Scan# 535  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Tgt Ion: 84 Resp: 5992  
Ion Ratio Lower Upper  
84 100  
86 57.7 45.4 84.4  
49 130.8 102.9 191.1

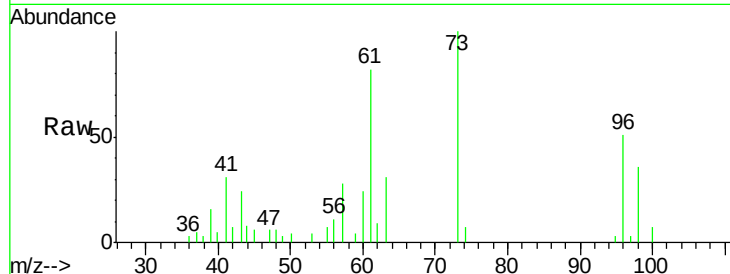




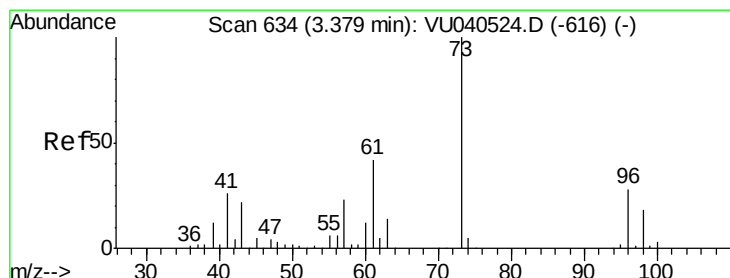
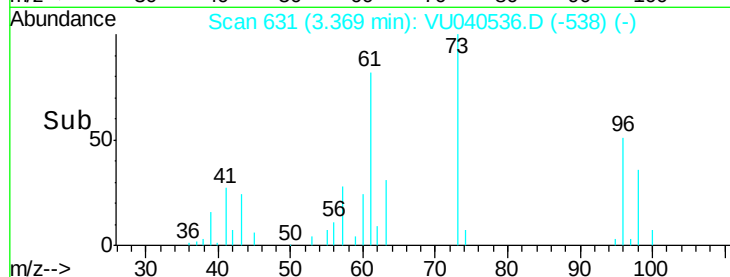
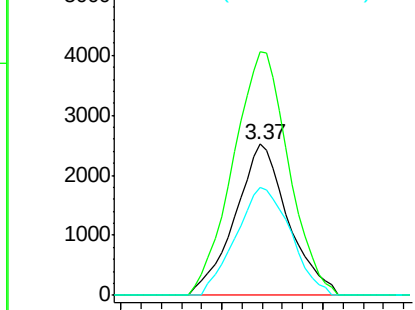
#17  
trans-1,2-Dichloroethene  
Concen: 2.226 ug/L  
RT: 3.37 min Scan# 631  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

Tot Ion: 96 Resp: 4633  
Ion Ratio Lower Upper  
96 100  
61 161.0 109.6 203.6  
98 71.5 43.3 80.3

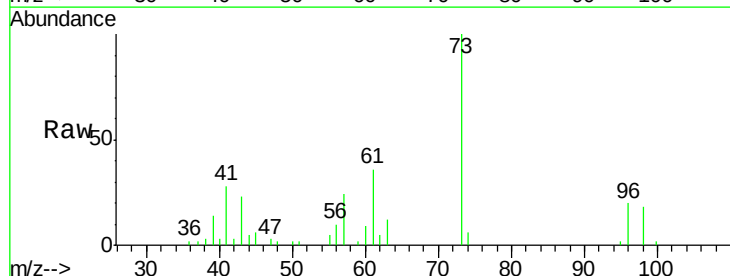


Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.00 (60.70 to 61.70): VU0  
Ion 98.00 (97.70 to 98.70): VU0

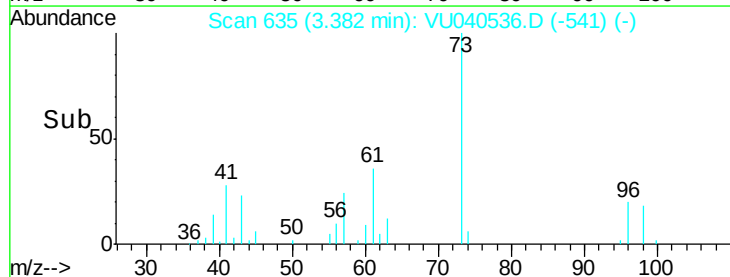
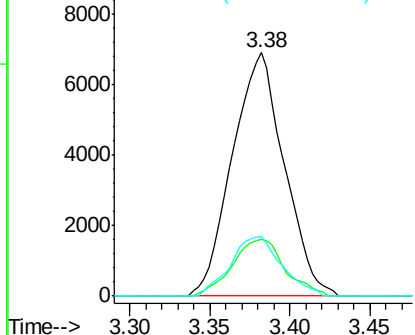


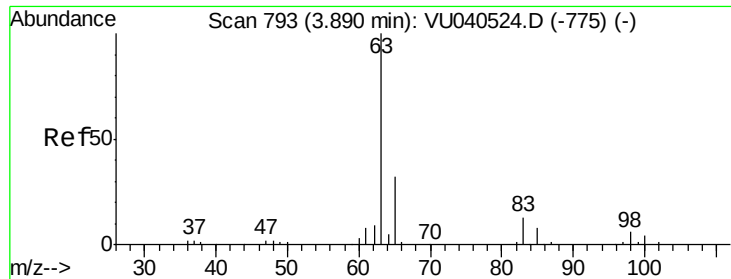
#18  
Methyl tert-butyl Ether  
Concen: 2.343 ug/L  
RT: 3.38 min Scan# 635  
Delta R.T. 0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Tgt Ion: 73 Resp: 15341  
Ion Ratio Lower Upper  
73 100  
43 23.6 18.2 27.2  
57 24.0 18.5 27.7



Abundance Ion 73.00 (72.70 to 73.70): VU0  
Ion 43.00 (42.70 to 43.70): VU0  
Ion 57.00 (56.70 to 57.70): VU0

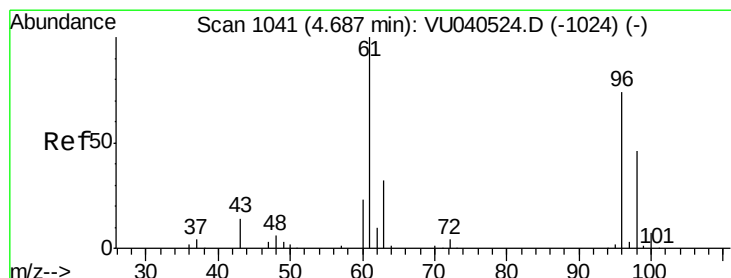
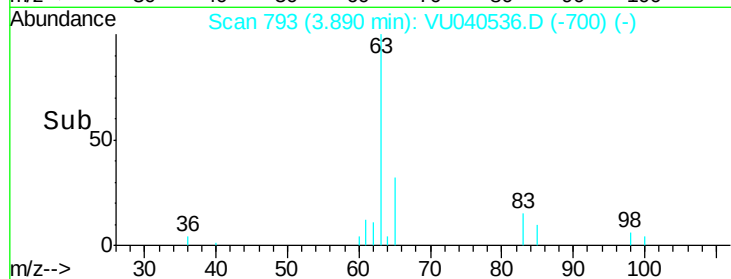
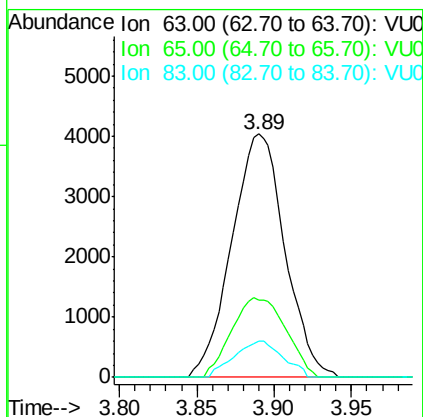
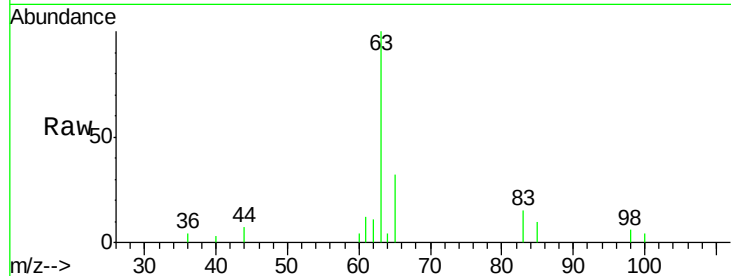




#19  
 1,1-Dichloroethane  
 Concen: 2.325 ug/L  
 RT: 3.89 min Scan# 793  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

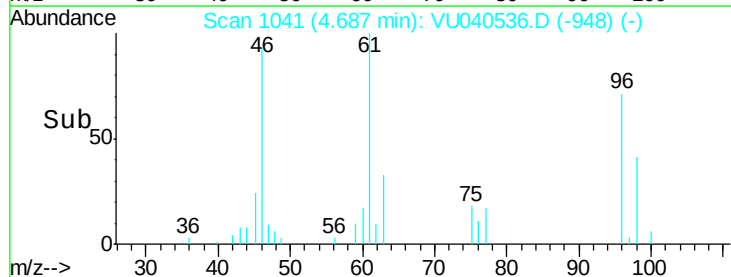
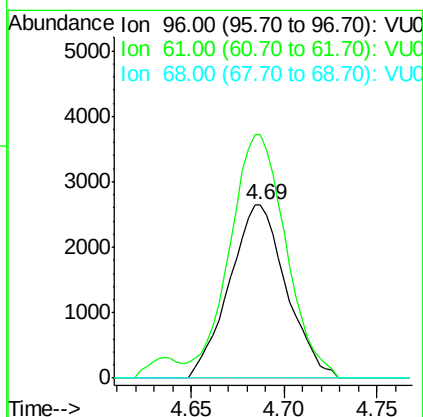
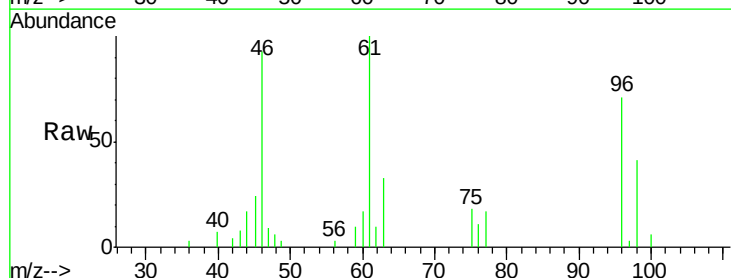
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

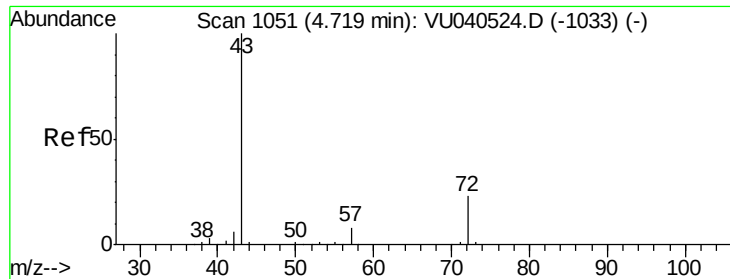
Tot Ion: 63 Resp: 9653  
 Ion Ratio Lower Upper  
 63 100  
 65 32.0 22.6 42.0  
 83 14.9 9.1 16.9



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.515 ug/L  
 RT: 4.69 min Scan# 1041  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion: 96 Resp: 5641  
 Ion Ratio Lower Upper  
 96 100  
 61 140.5 95.7 177.7  
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 4.553 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

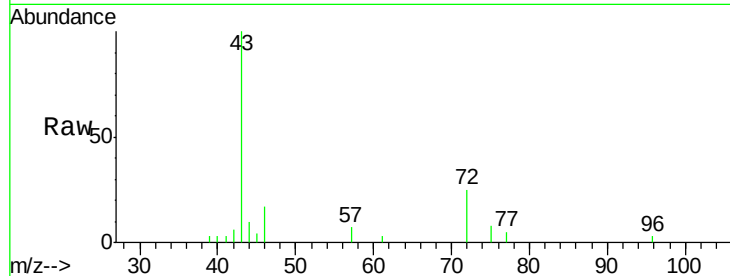
MDL-WATER-04

Tot Ion: 43 Resp: 10489

Ion Ratio Lower Upper

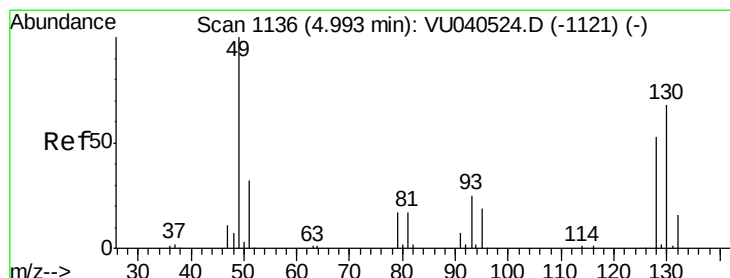
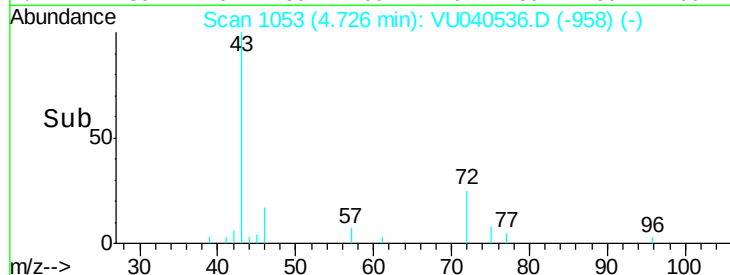
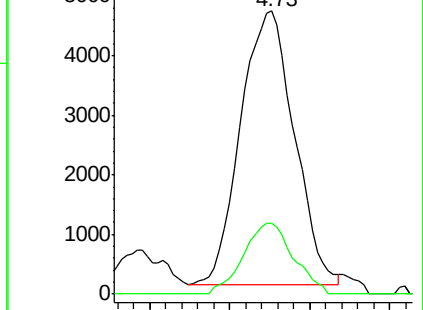
43 100

72 24.1 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VU040536.D (-958) (-)

Ion 72.00 (71.70 to 72.70): VU040536.D (-958) (-)



#23

Bromochloromethane

Concen: 2.379 ug/L m

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Tgt Ion: 128 Resp: 2781

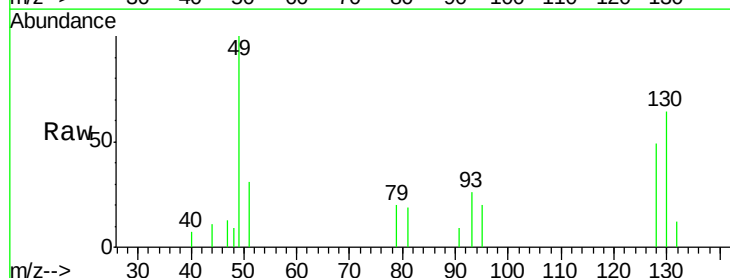
Ion Ratio Lower Upper

128 100

49 203.5 133.1 247.3

130 130.5 90.5 168.1

51 62.7 48.4 72.6

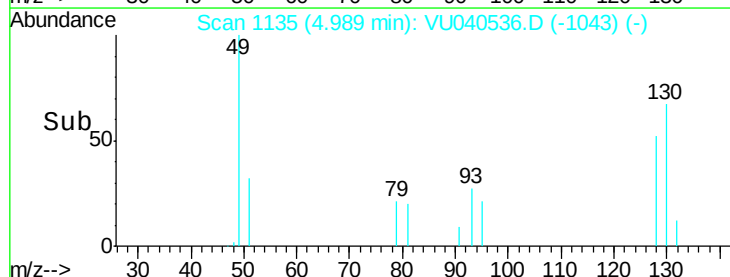
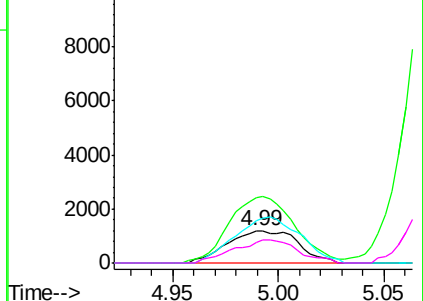


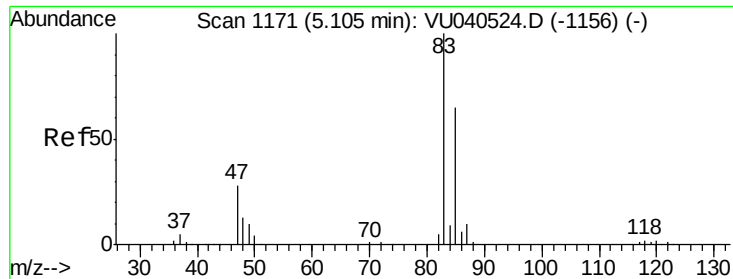
Abundance Ion 128.00 (127.70 to 128.70): VU040536.D (-1043) (-)

Ion 49.00 (48.70 to 49.70): VU040536.D (-1043) (-)

Ion 130.00 (129.70 to 130.70): VU040536.D (-1043) (-)

Ion 51.00 (50.70 to 51.70): VU040536.D (-1043) (-)

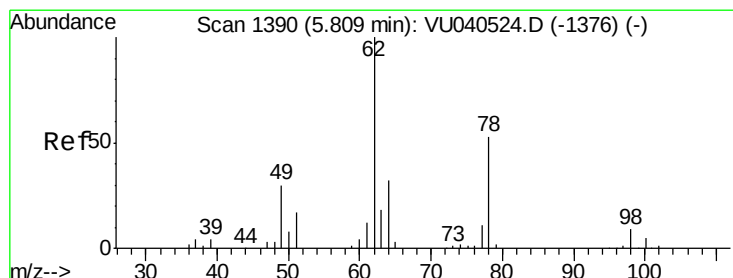
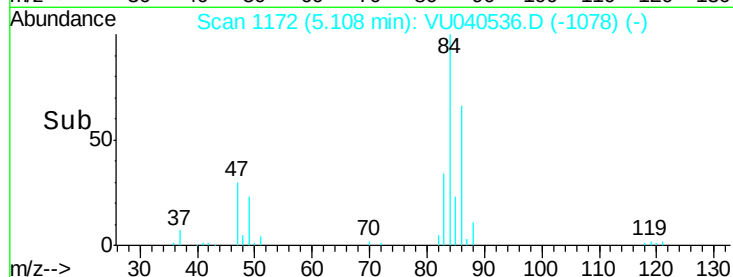
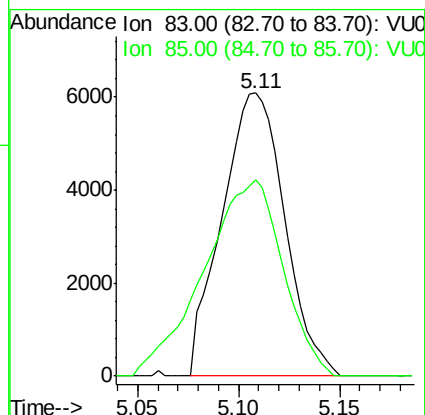
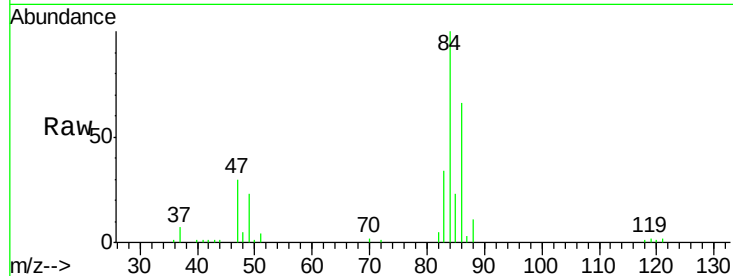




#25  
Chloroform  
Concen: 3.123 ug/L  
RT: 5.11 min Scan# 1172  
Delta R.T. 0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

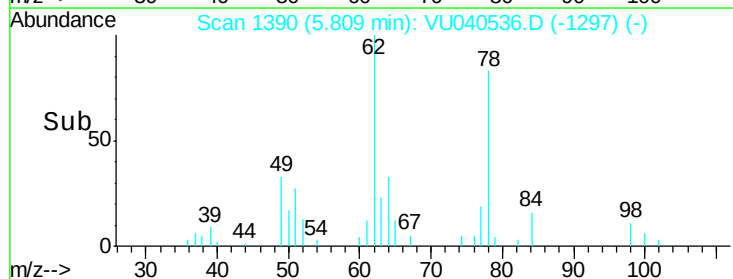
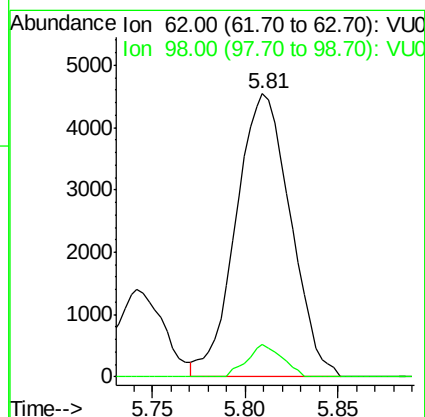
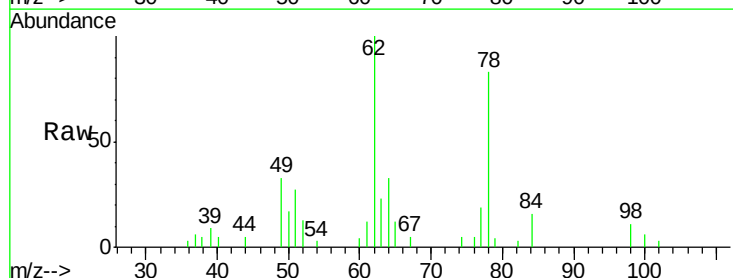
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

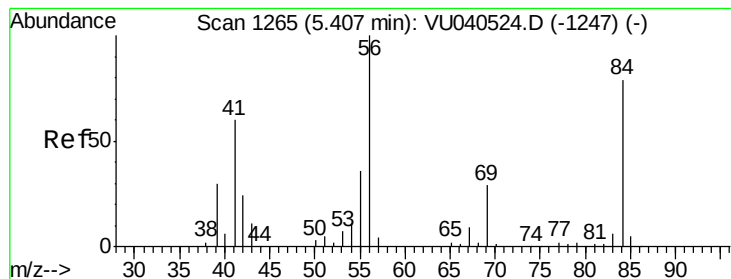
Tot Ion: 83 Resp: 13220  
Ion Ratio Lower Upper  
83 100  
85 69.2 45.6 84.8



#27  
1,2-Dichloroethane  
Concen: 2.650 ug/L  
RT: 5.81 min Scan# 1390  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Tgt Ion: 62 Resp: 9256  
Ion Ratio Lower Upper  
62 100  
98 11.4 7.1 10.7#





#29

Cyclohexane

Concen: 2.197 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-04

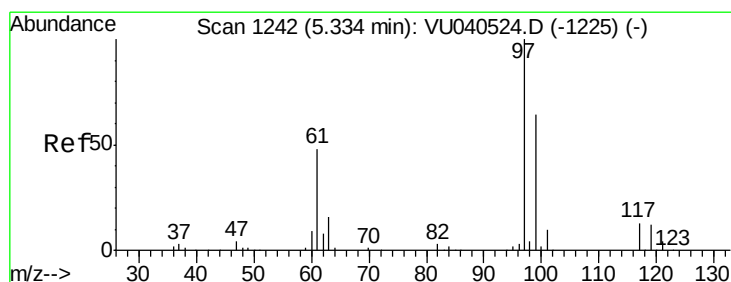
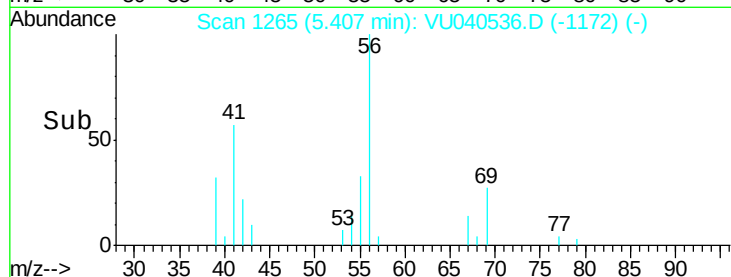
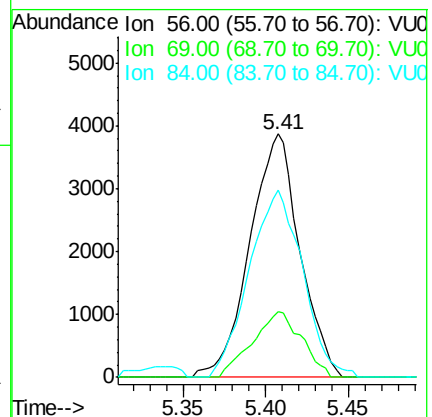
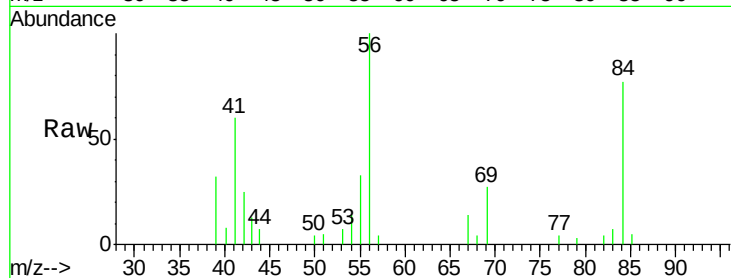
Tot Ion: 56 Resp: 8123

Ion Ratio Lower Upper

56 100

69 26.4 22.6 34.0

84 81.8 63.1 94.7



#30

1,1,1-Trichloroethane

Concen: 2.457 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

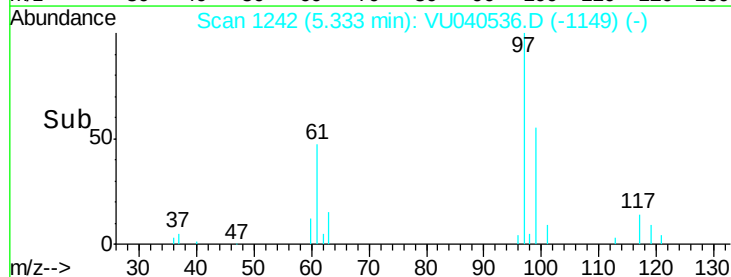
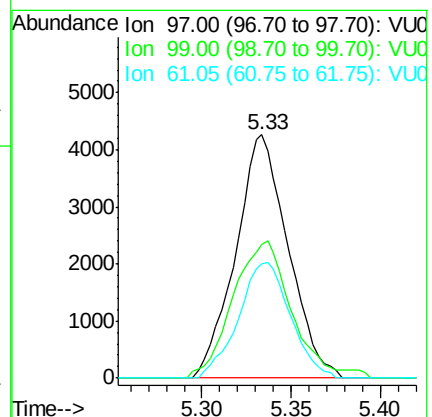
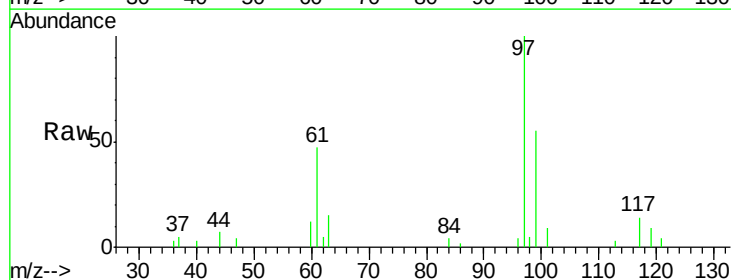
Tgt Ion: 97 Resp: 8714

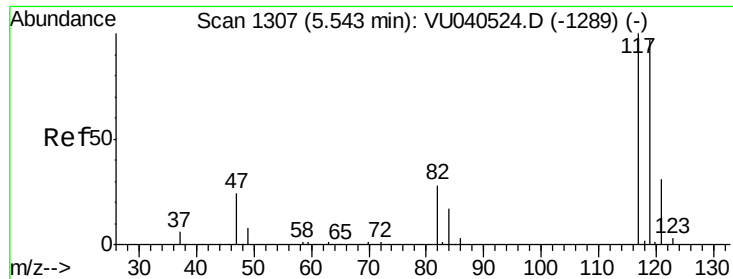
Ion Ratio Lower Upper

97 100

99 62.2 51.0 76.6

61 47.1 39.4 59.2





#31

Carbon tetrachloride

Concen: 2.287 ug/L m

RT: 5.54 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

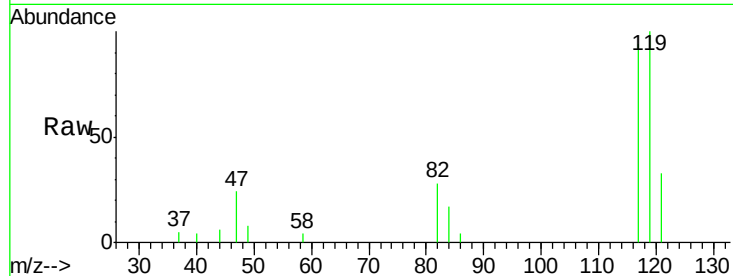
MDL-WATER-04

Tot Ion:117 Resp: 7014

Ion Ratio Lower Upper

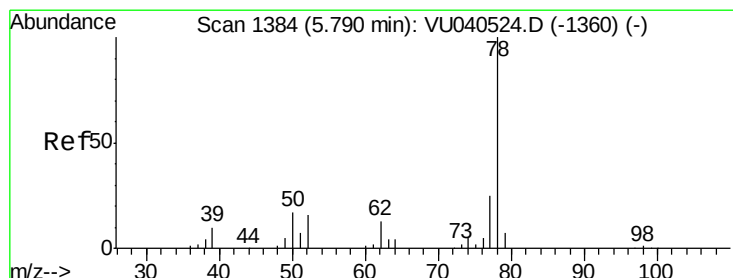
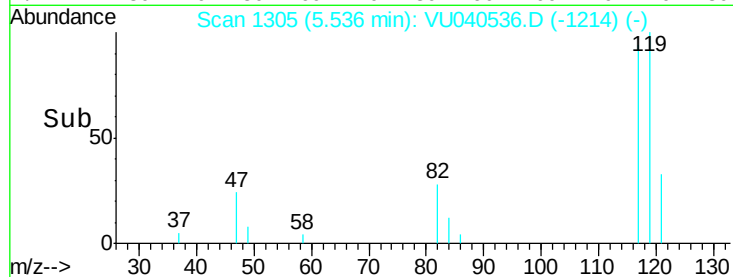
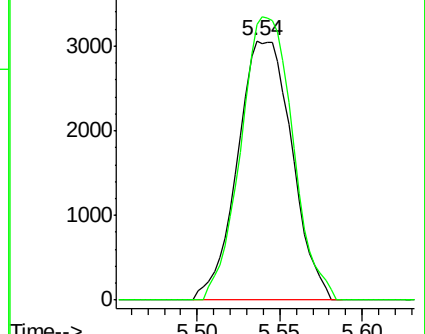
117 100

119 104.4 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.492 ug/L

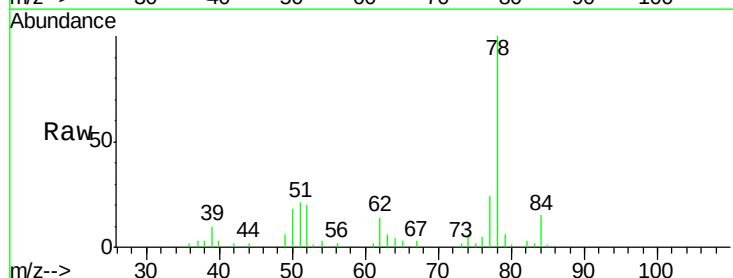
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

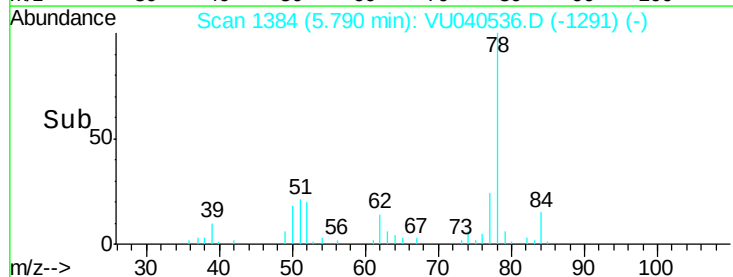
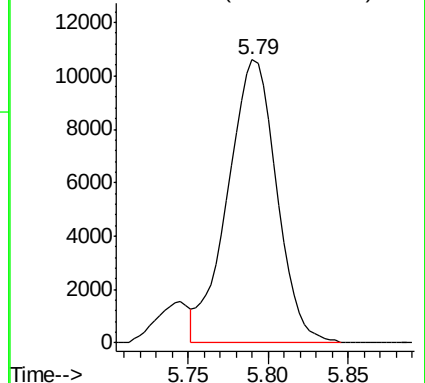
Lab File: VU040536.D

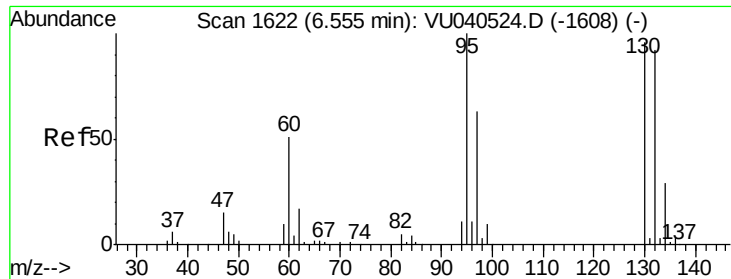
Acq: 06 Oct 2020 18:59

Tgt Ion: 78 Resp: 22239



Abundance Ion 78.00 (77.70 to 78.70): VU0

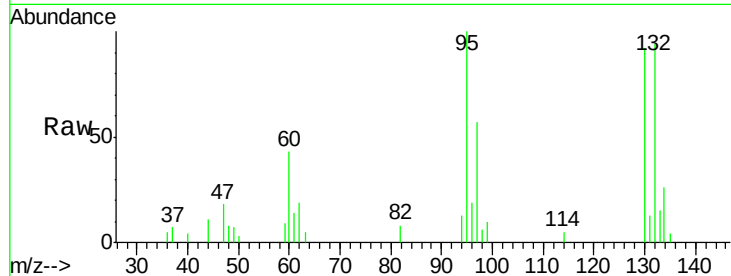




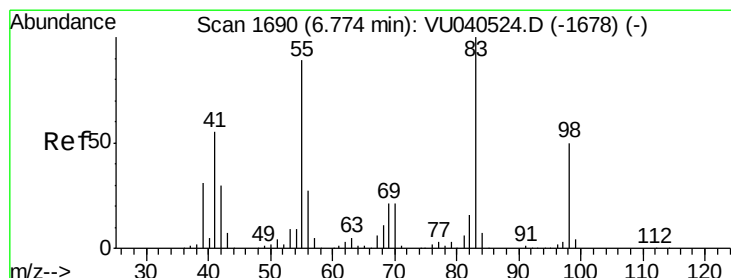
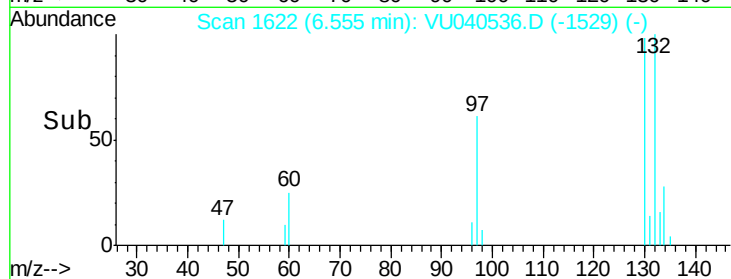
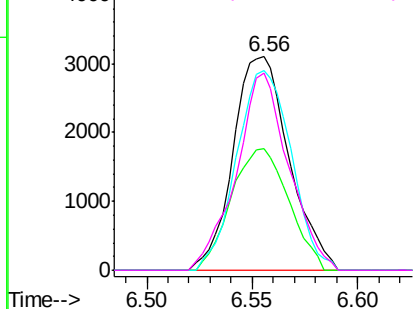
#34  
 Trichloroethene  
 Concen: 2.497 ug/L  
 RT: 6.56 min Scan# 1622  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

Tot Ion: 95 Resp: 5740  
 Ion Ratio Lower Upper  
 95 100  
 97 57.2 44.3 82.3  
 132 93.6 64.2 119.2  
 130 92.2 67.3 125.1

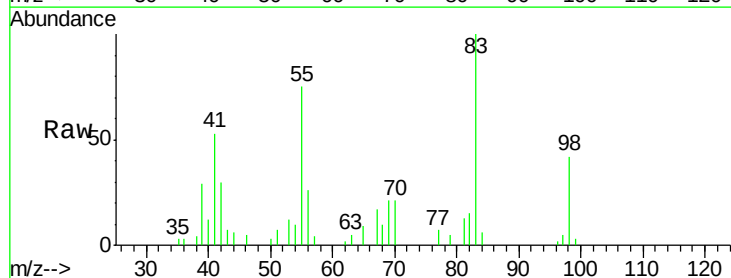


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

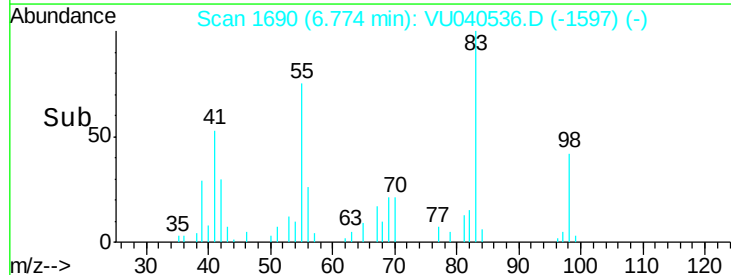
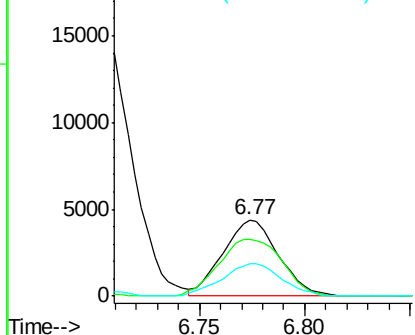


#35  
 Methylcyclohexane  
 Concen: 2.293 ug/L  
 RT: 6.77 min Scan# 1690  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

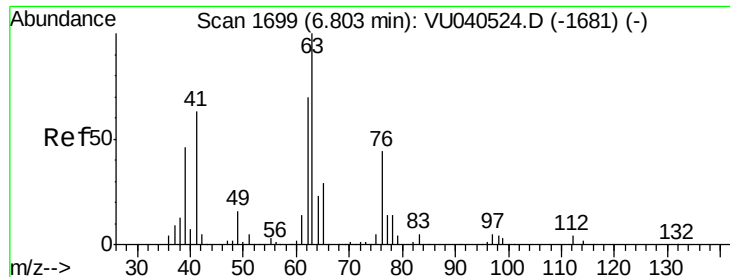
Tgt Ion: 83 Resp: 8016  
 Ion Ratio Lower Upper  
 83 100  
 55 85.6 69.8 104.8  
 98 45.6 39.1 58.7



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 55.00 (54.70 to 55.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0



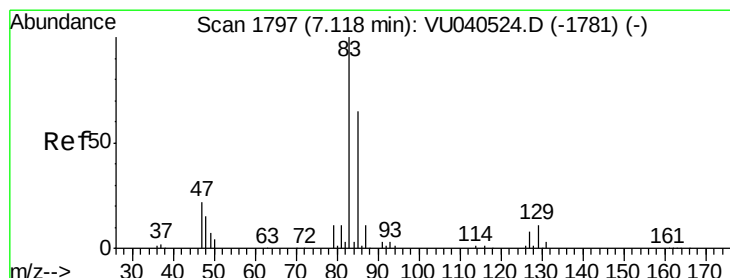
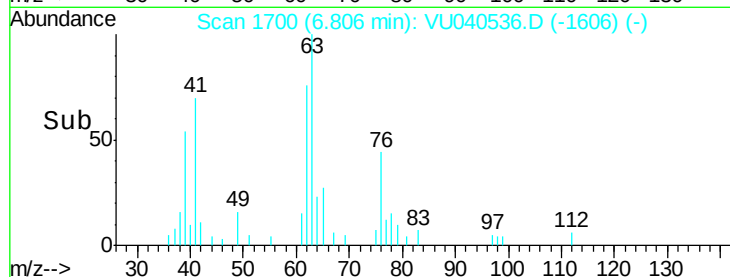
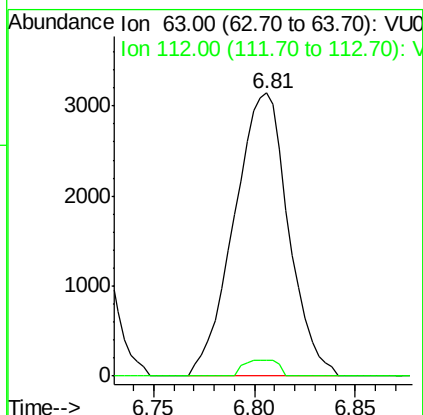
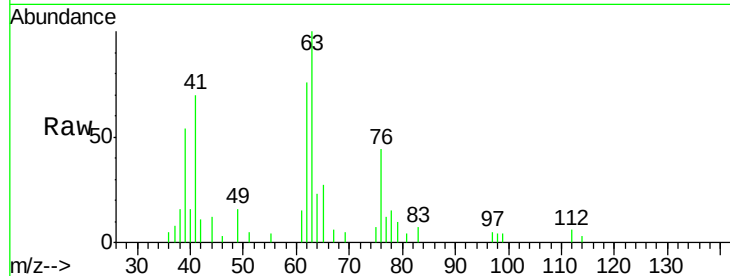




#37  
 1,2-Dichloropropane  
 Concen: 2.415 ug/L  
 RT: 6.81 min Scan# 1700  
 Delta R.T. 0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

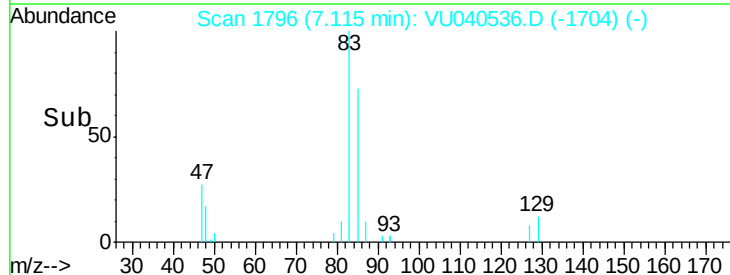
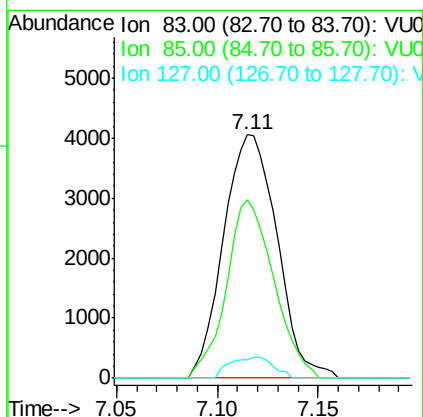
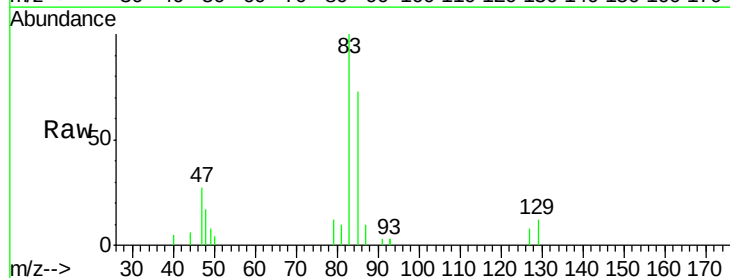
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

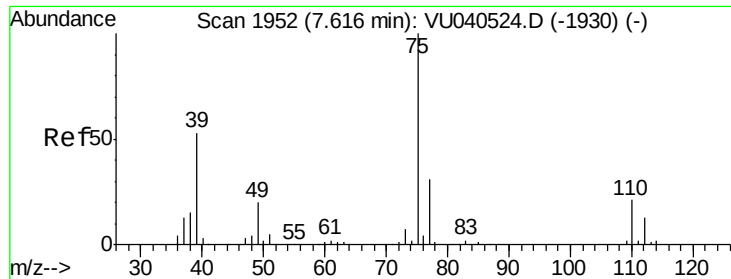
Tot Ion: 63 Resp: 5920  
 Ion Ratio Lower Upper  
 63 100  
 112 3.6 3.5 5.3



#38  
 Bromodichloromethane  
 Concen: 2.362 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion: 83 Resp: 7519  
 Ion Ratio Lower Upper  
 83 100  
 85 73.1 45.2 84.0  
 127 7.8 6.7 10.1

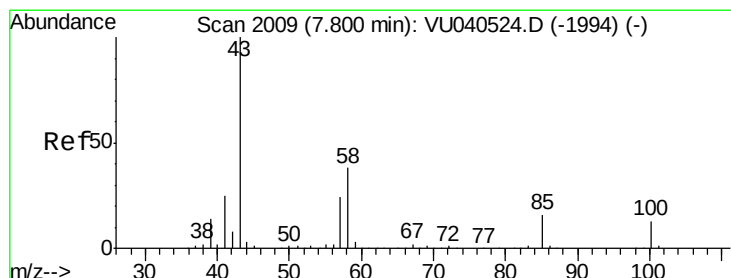
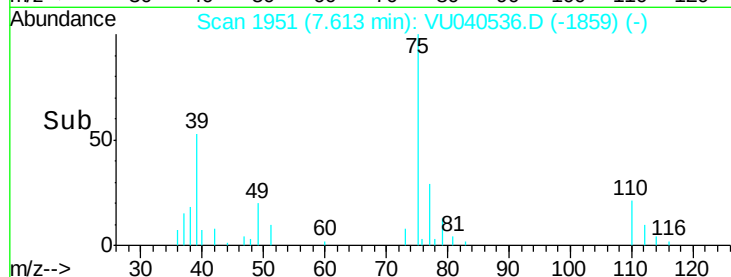
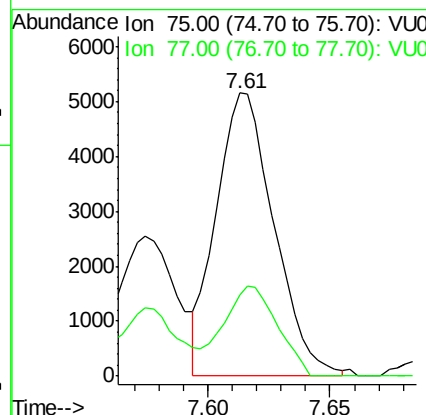
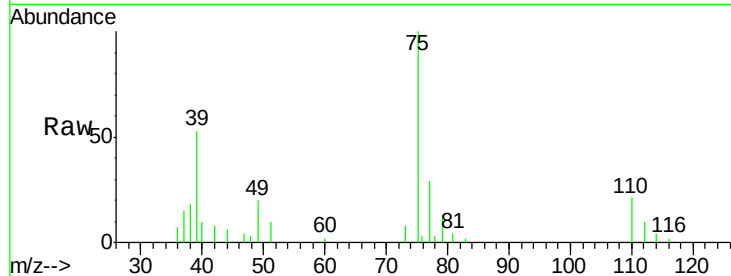




#39  
 cis-1,3-Dichloropropene  
 Concen: 2.367 ug/L  
 RT: 7.61 min Scan# 1951  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

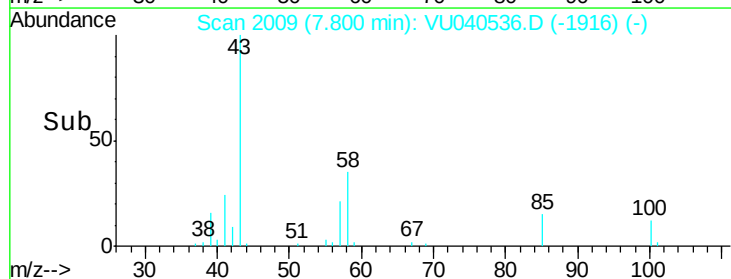
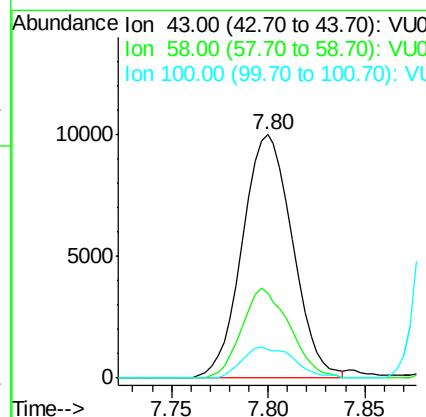
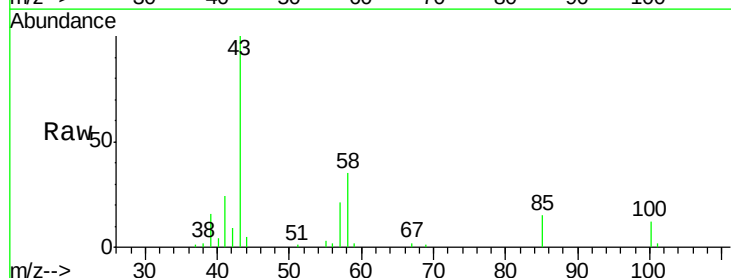
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

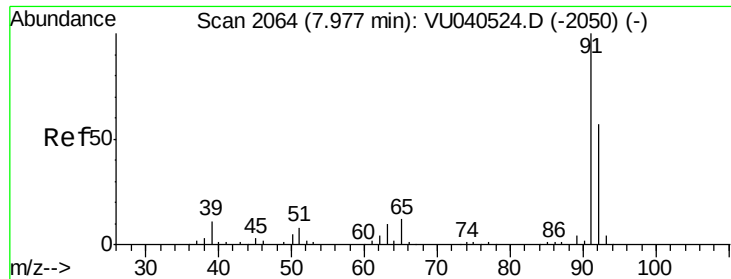
Tot Ion: 75 Resp: 8502  
 Ion Ratio Lower Upper  
 75 100  
 77 28.9 21.4 39.8



#40  
 4-Methyl-2-pentanone  
 Concen: 4.665 ug/L  
 RT: 7.80 min Scan# 2009  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion: 43 Resp: 18042  
 Ion Ratio Lower Upper  
 43 100  
 58 35.2 29.7 44.5  
 100 8.0 10.5 15.7#





#42

Toluene

Concen: 2.444 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

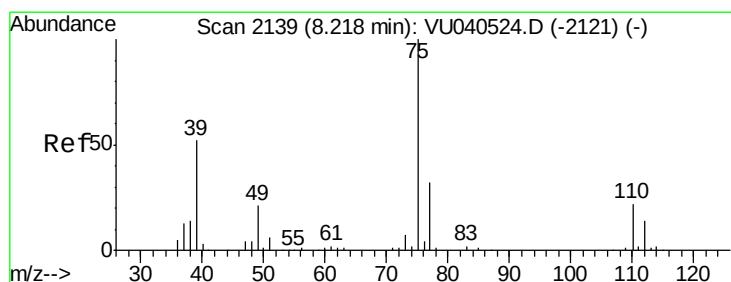
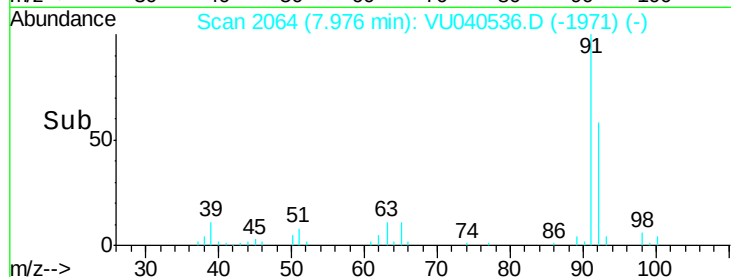
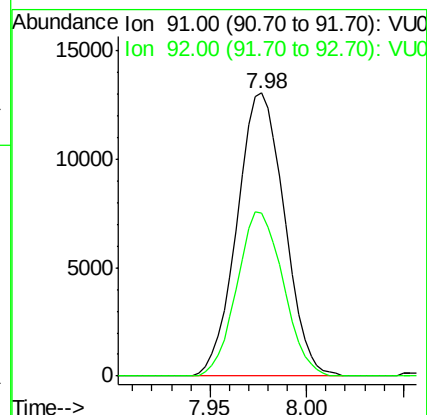
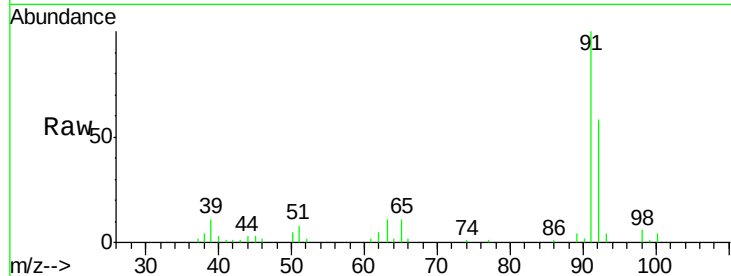
MDL-WATER-04

Tot Ion: 91 Resp: 22271

Ion Ratio Lower Upper

91 100

92 57.6 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 2.429 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU040536.D

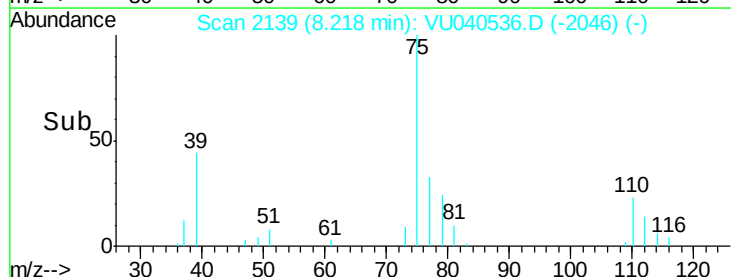
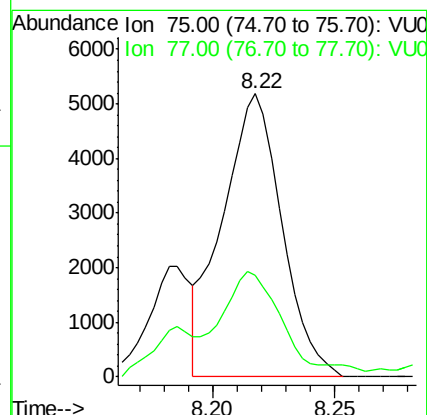
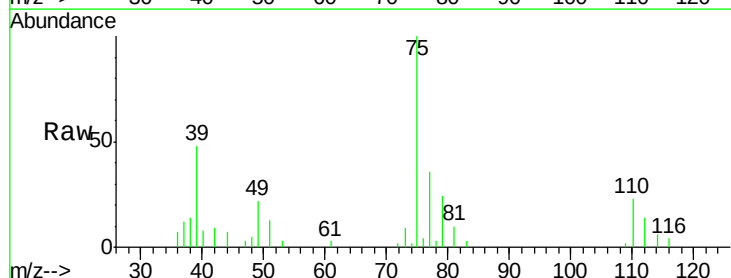
Acq: 06 Oct 2020 18:59

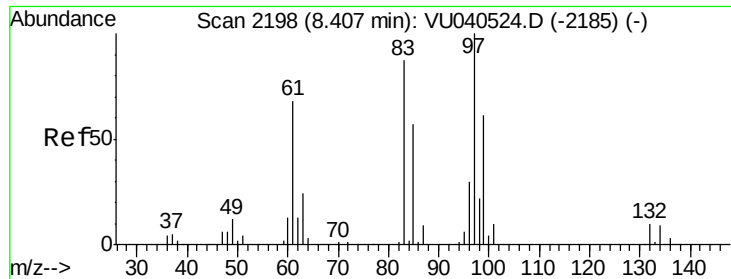
Tgt Ion: 75 Resp: 8785

Ion Ratio Lower Upper

75 100

77 35.8 22.1 41.1

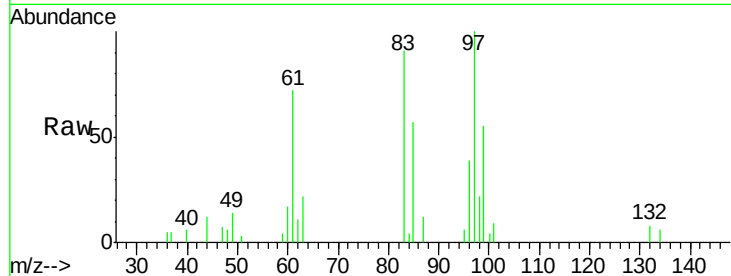




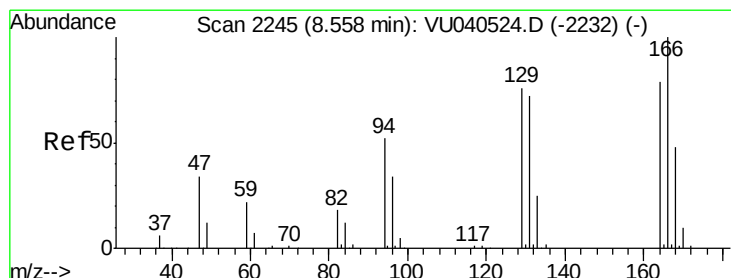
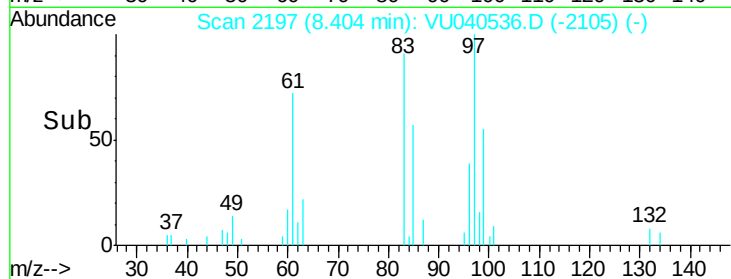
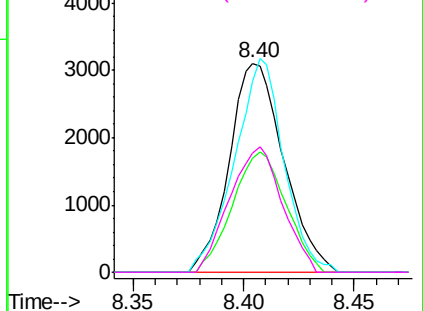
#45  
1,1,2-Trichloroethane  
Concen: 2.428 ug/L  
RT: 8.40 min Scan# 2197  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 5331  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 54.7  | 42.7  | 79.3  |
| 83       | 91.3  | 61.0  | 113.4 |
| 85       | 57.2  | 39.8  | 73.8  |

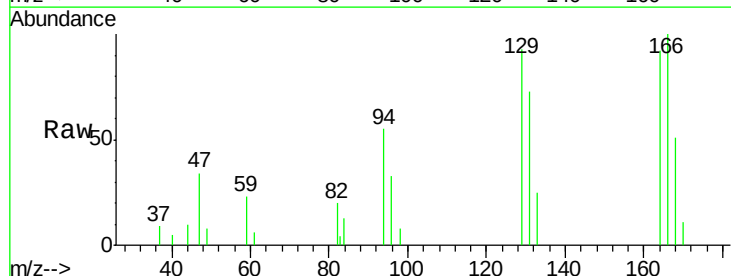


Abundance Ion 97.00 (96.70 to 97.70): VU040536.D (-2197) (-)  
Ion 99.00 (98.70 to 99.70): VU040536.D (-2197) (-)  
Ion 83.00 (82.70 to 83.70): VU040536.D (-2197) (-)  
Ion 85.00 (84.70 to 85.70): VU040536.D (-2197) (-)

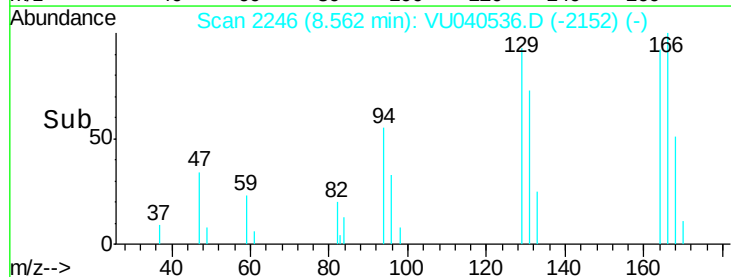
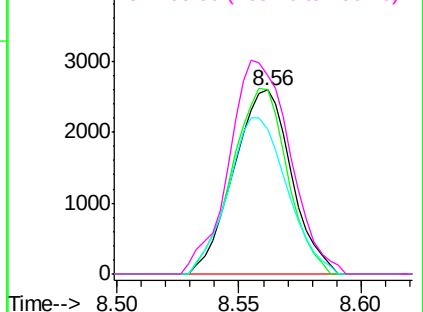


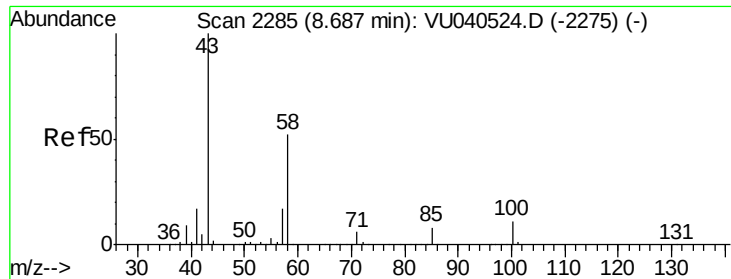
#46  
Tetrachloroethene  
Concen: 2.563 ug/L  
RT: 8.56 min Scan# 2246  
Delta R.T. 0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 4258  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 100.4 | 67.4  | 125.2 |
| 131      | 79.0  | 63.8  | 118.6 |
| 166      | 108.2 | 88.7  | 164.7 |



Abundance Ion 164.00 (163.70 to 164.70): VU040536.D (-2246) (-)  
Ion 129.00 (128.70 to 129.70): VU040536.D (-2246) (-)  
Ion 131.00 (130.70 to 131.70): VU040536.D (-2246) (-)  
Ion 166.00 (165.70 to 166.70): VU040536.D (-2246) (-)

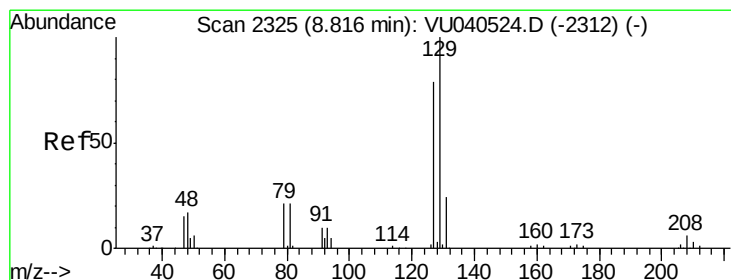
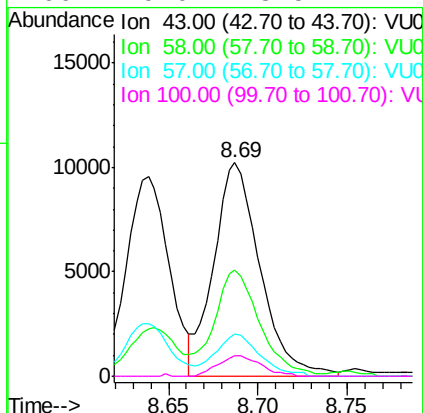
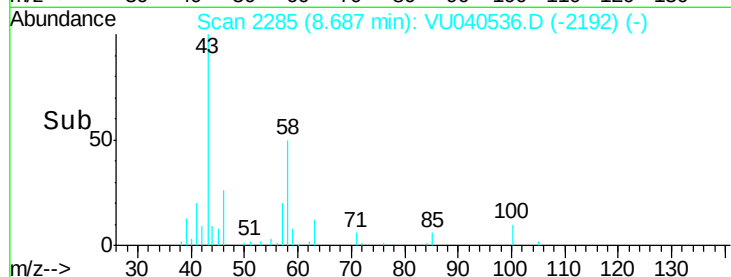
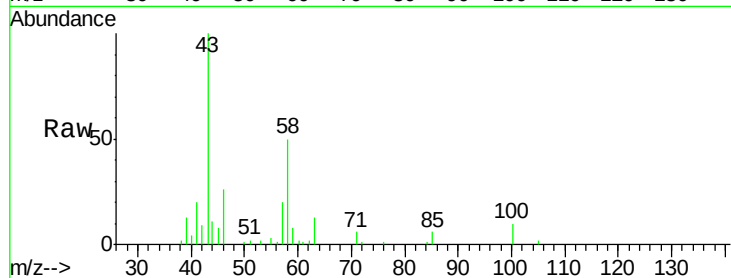




#48  
2-Hexanone  
Concen: 5.886 ug/L  
RT: 8.69 min Scan# 2285  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

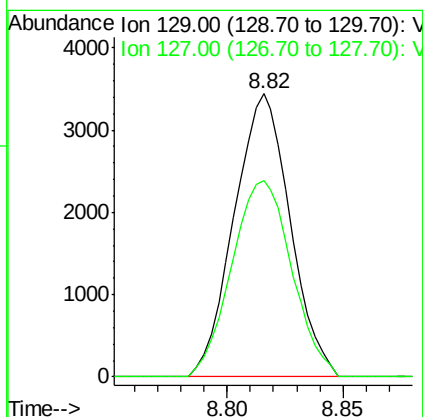
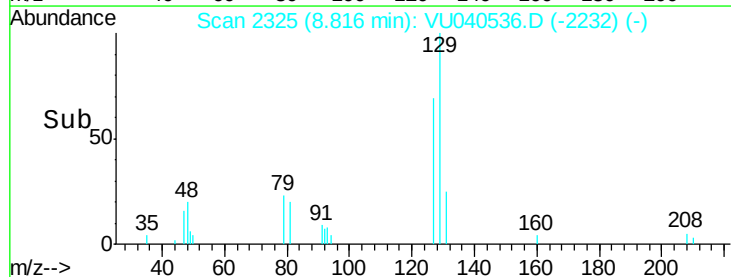
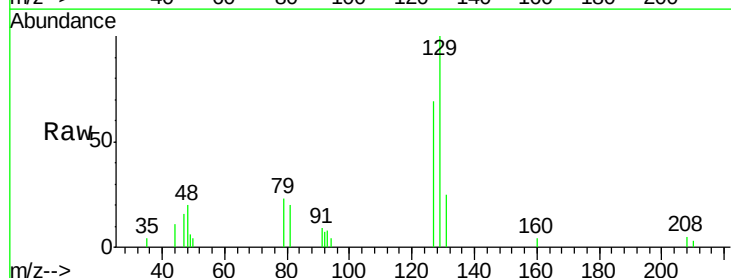
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

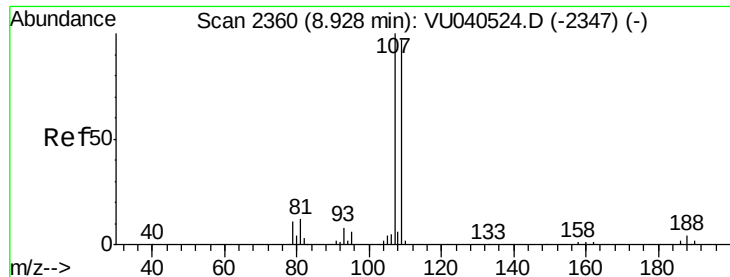
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 18500 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 48.8  | 40.6  | 60.8  |
| 57       | 18.9  | 14.3  | 21.5  |
| 100      | 9.0   | 8.5   | 12.7  |



#49  
Dibromochloromethane  
Concen: 2.406 ug/L  
RT: 8.82 min Scan# 2325  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 5769  |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 69.5  | 54.9  | 102.1 |

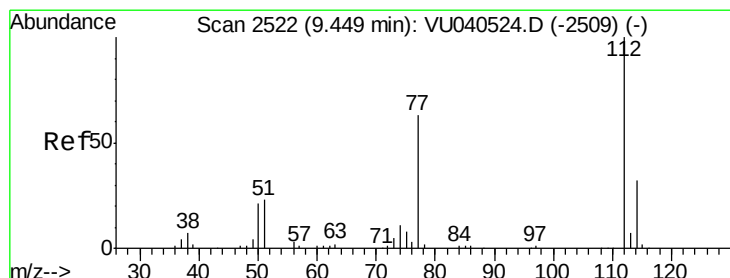
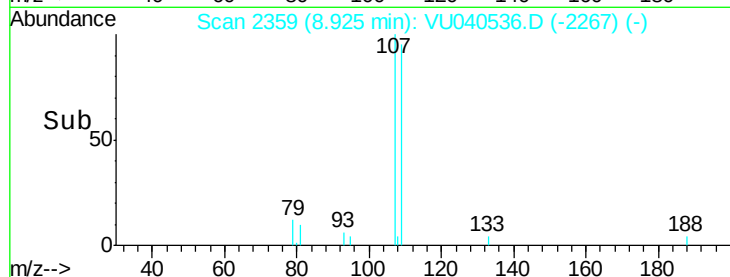
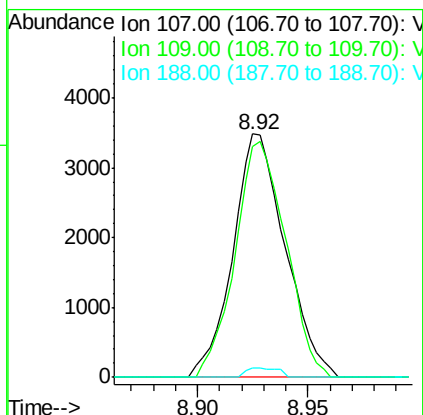
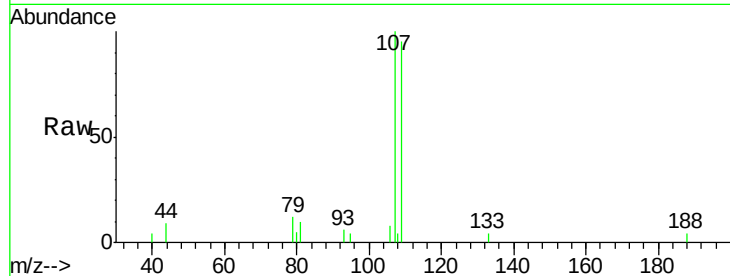




#50  
1,2-Dibromoethane  
Concen: 2.460 ug/L  
RT: 8.92 min Scan# 2359  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

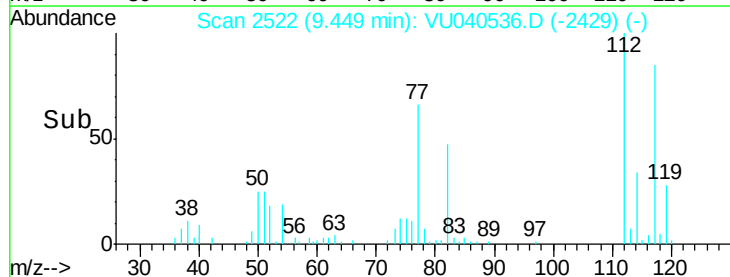
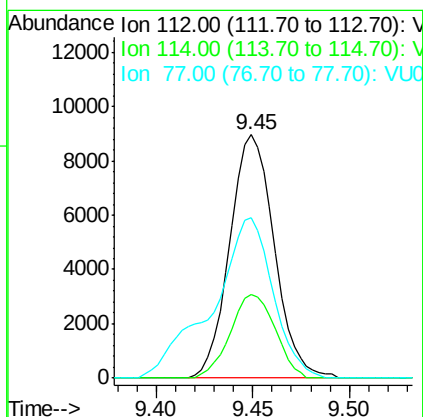
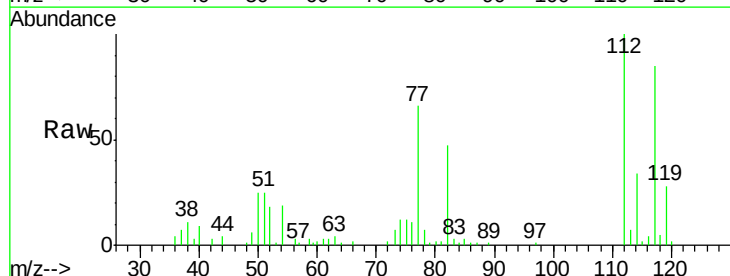
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-04

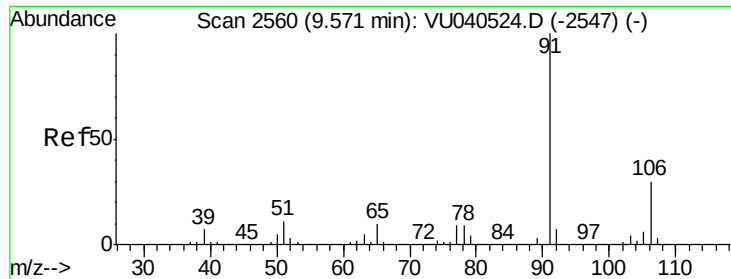
Tot Ion:107 Resp: 5725  
Ion Ratio Lower Upper  
107 100  
109 94.9 67.8 125.8  
188 3.7 2.8 4.2



#51  
Chlorobenzene  
Concen: 2.405 ug/L  
RT: 9.45 min Scan# 2522  
Delta R.T. -0.00 min  
Lab File: VU040536.D  
Acq: 06 Oct 2020 18:59

Tgt Ion:112 Resp: 14376  
Ion Ratio Lower Upper  
112 100  
114 34.2 22.1 41.1  
77 65.7 50.4 75.6





#52

Ethylbenzene

Concen: 2.212 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

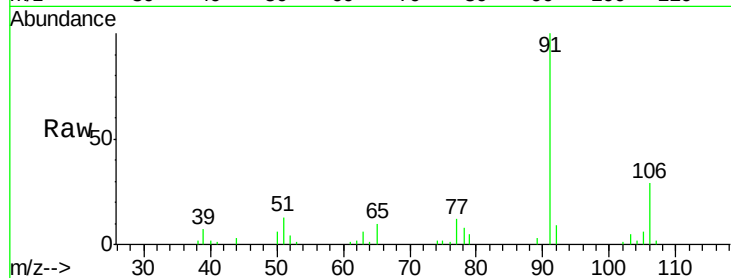
MDL-WATER-04

Tot Ion: 91 Resp: 22369

Ion Ratio Lower Upper

91 100

106 28.9 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU040524.D (-2547) (-)

Ion 106.00 (105.70 to 106.70): VU040524.D (-2547) (-)

9.57

15000

10000

5000

0

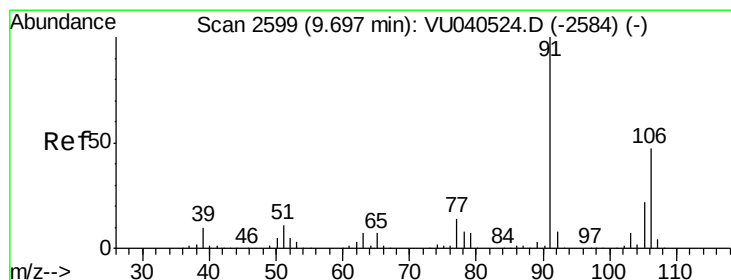
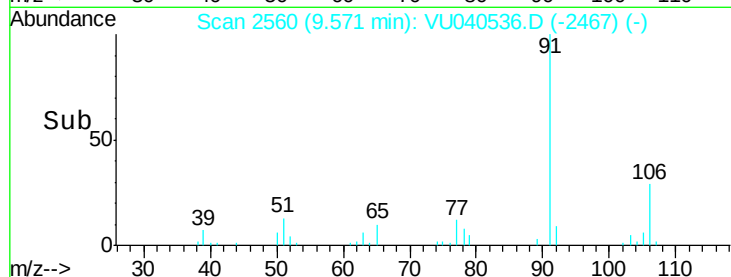
Time-->

9.50

9.55

9.60

9.65



#53

m,p-Xylene

Concen: 2.249 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU040536.D

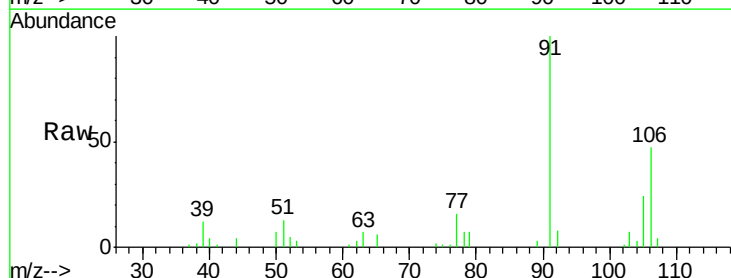
Acq: 06 Oct 2020 18:59

Tgt Ion: 106 Resp: 8375

Ion Ratio Lower Upper

106 100

91 214.0 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): VU040524.D (-2584) (-)

Ion 91.00 (90.70 to 91.70): VU040524.D (-2584) (-)

9.70

12000

10000

8000

6000

4000

2000

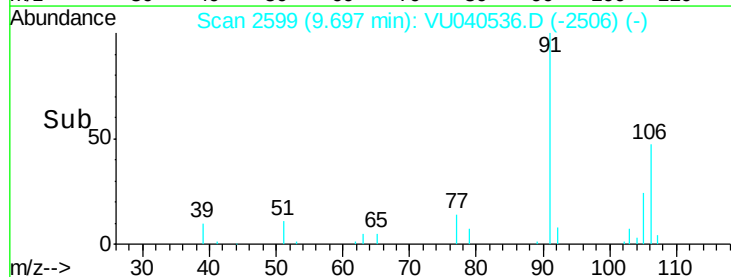
0

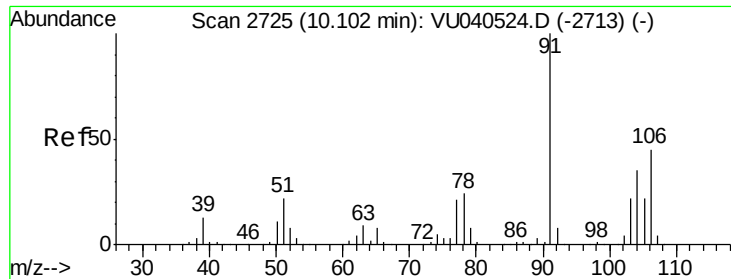
Time-->

9.65

9.70

9.75





#54

o-xylene

Concen: 2.118 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

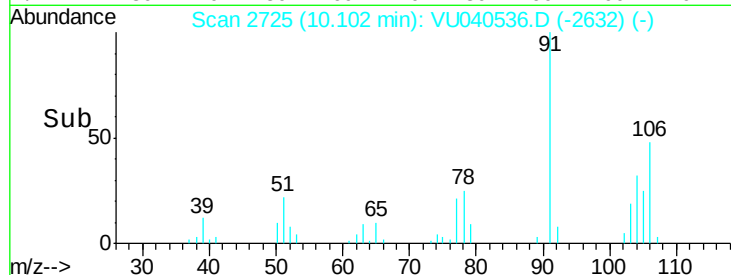
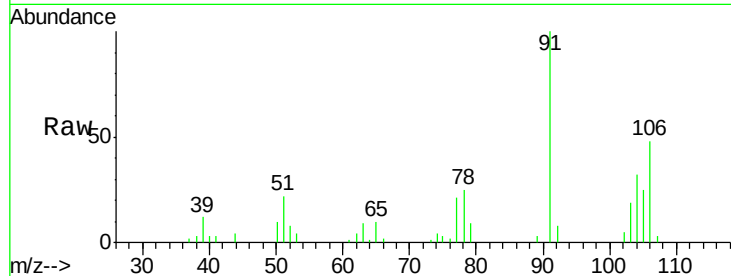
MDL-WATER-04

Tot Ion:106 Resp: 7504

Ion Ratio Lower Upper

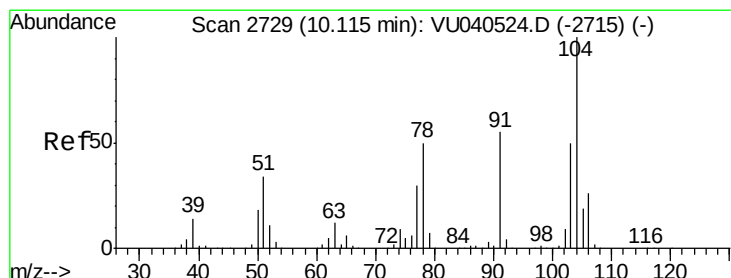
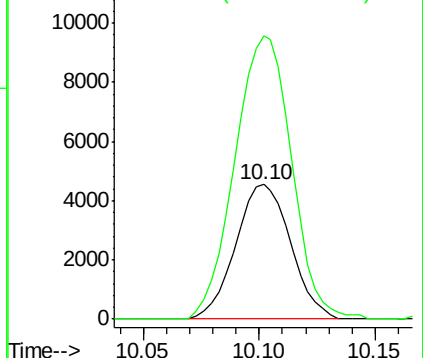
106 100

91 210.3 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.847 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU040536.D

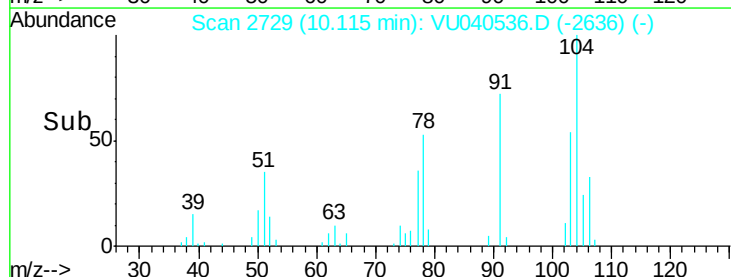
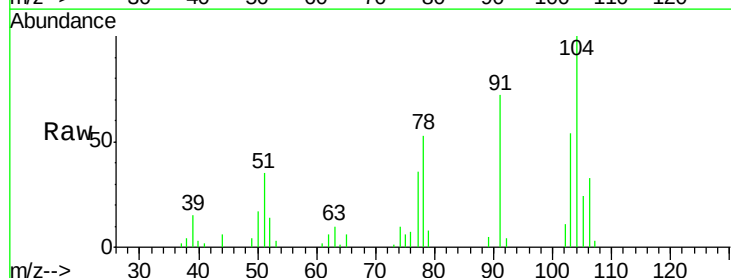
Acq: 06 Oct 2020 18:59

Tgt Ion:104 Resp: 11529

Ion Ratio Lower Upper

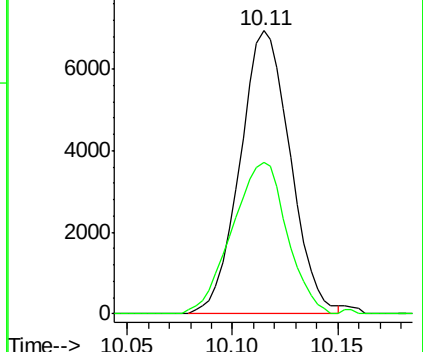
104 100

78 53.4 35.2 65.4

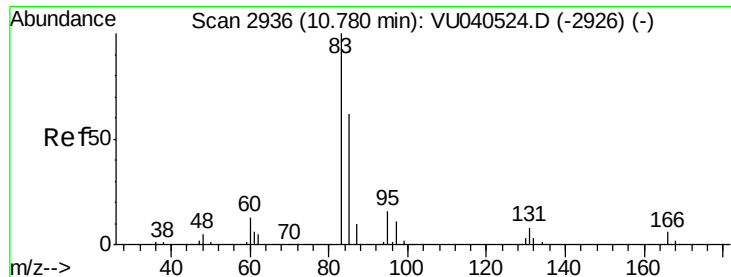


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



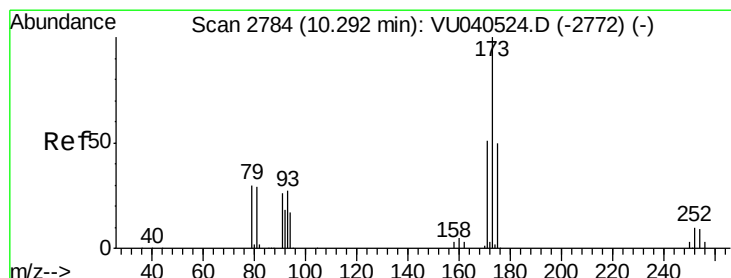
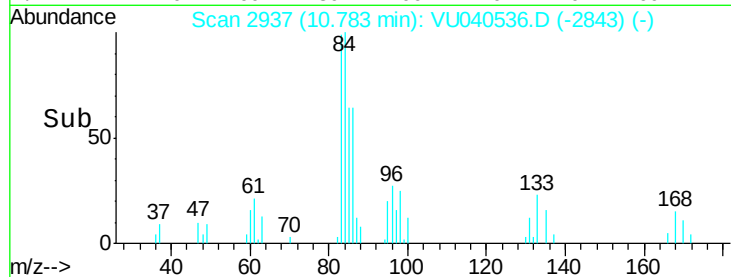
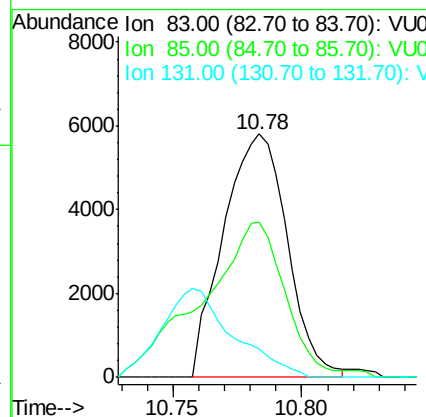
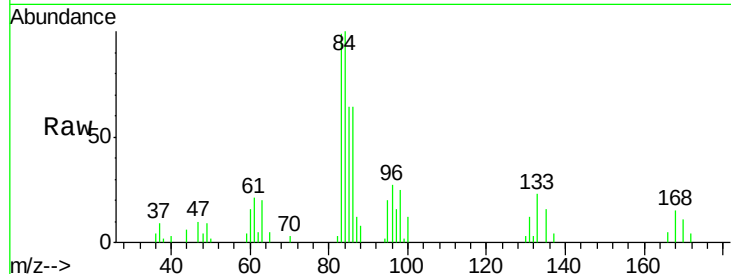




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 2.569 ug/L  
 RT: 10.78 min Scan# 2937  
 Delta R.T. 0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

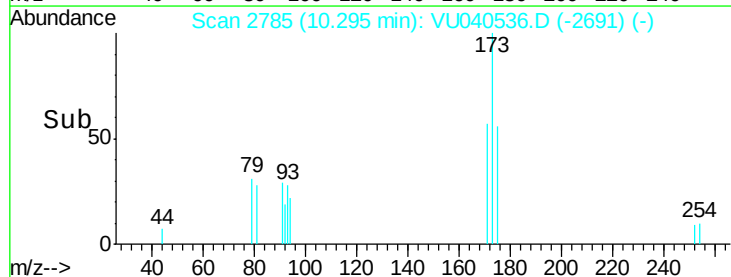
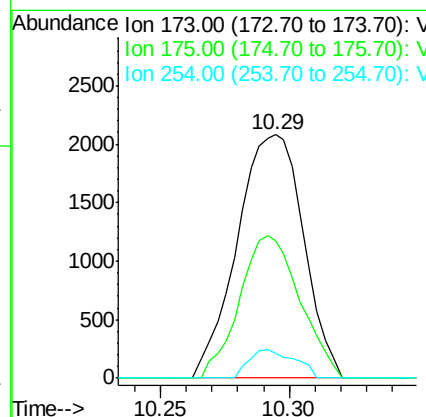
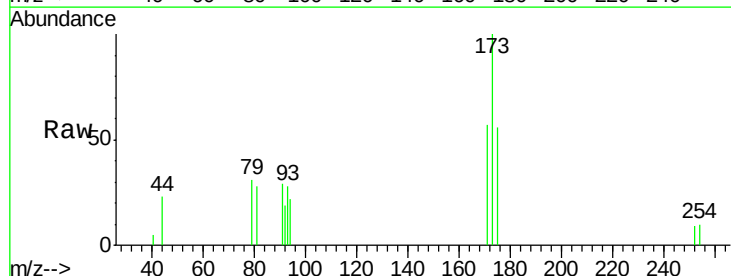
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

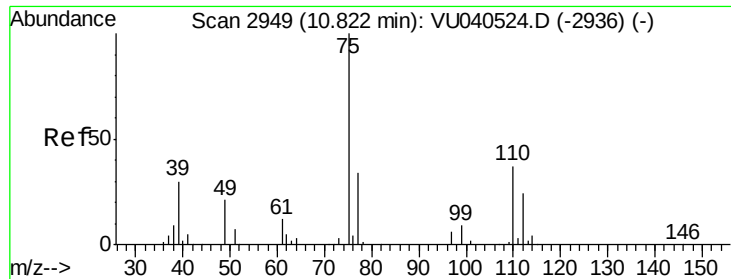
Tot Ion: 83 Resp: 9974  
 Ion Ratio Lower Upper  
 83 100  
 85 63.9 44.2 82.2  
 131 11.6 7.1 10.7#



#59  
 Bromoform  
 Concen: 2.399 ug/L  
 RT: 10.29 min Scan# 2785  
 Delta R.T. 0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion: 173 Resp: 3733  
 Ion Ratio Lower Upper  
 173 100  
 175 53.2 38.5 57.7  
 254 8.1 7.0 10.6

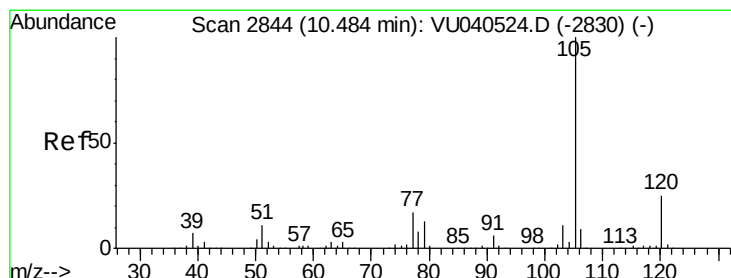
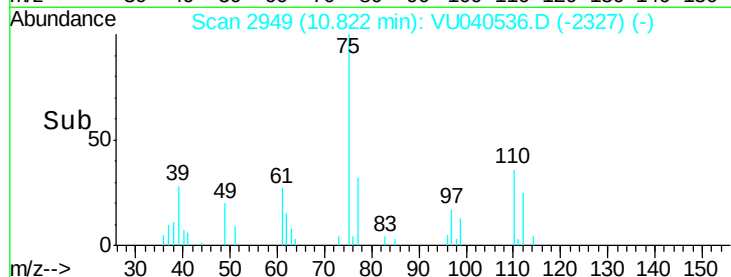
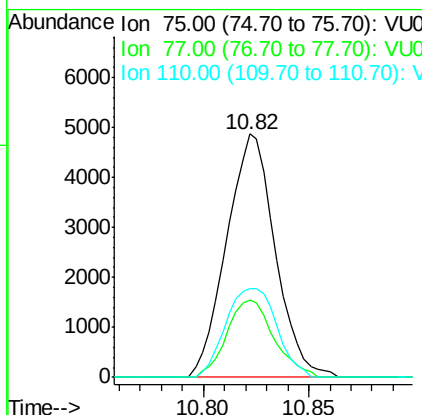
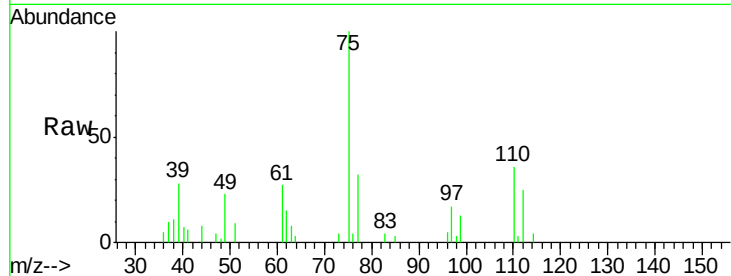




#60  
 1,2,3-Trichloropropane  
 Concen: 2.700 ug/L  
 RT: 10.82 min Scan# 2949  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

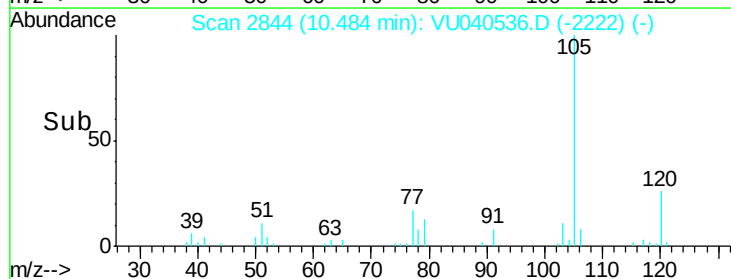
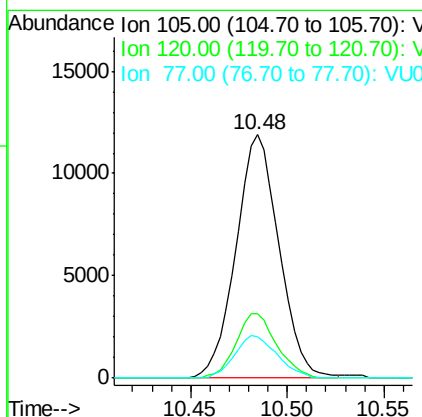
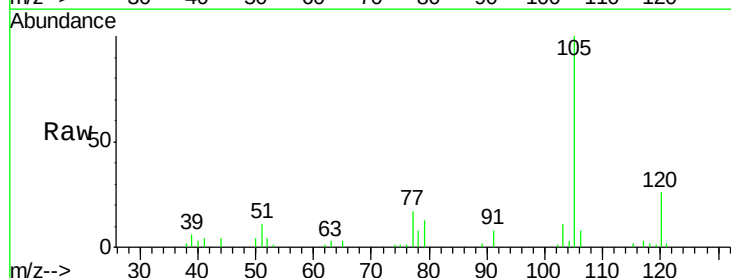
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

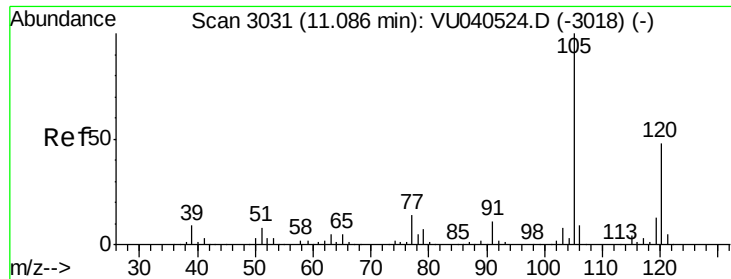
Tot Ion: 75 Resp: 7785  
 Ion Ratio Lower Upper  
 75 100  
 77 30.9 26.4 39.6  
 110 38.5 30.1 45.1



#61  
 Isopropylbenzene  
 Concen: 2.162 ug/L  
 RT: 10.48 min Scan# 2844  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion: 105 Resp: 18432  
 Ion Ratio Lower Upper  
 105 100  
 120 24.9 20.7 31.1  
 77 17.0 13.8 20.8





#62

1,3,5-Trimethylbenzene

Concen: 1.962 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

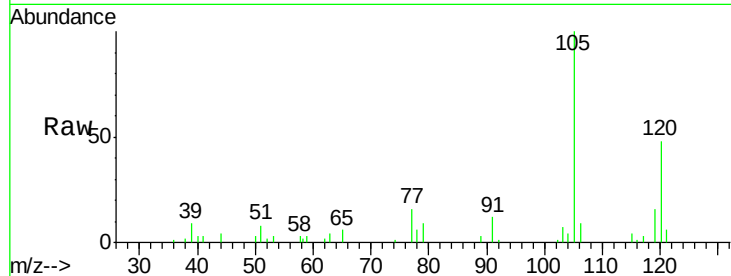
MDL-WATER-04

Tot Ion:105 Resp: 13745

Ion Ratio Lower Upper

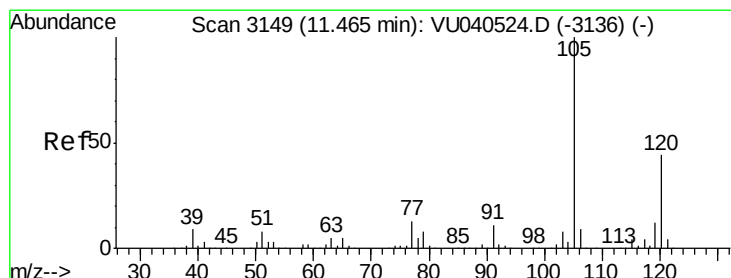
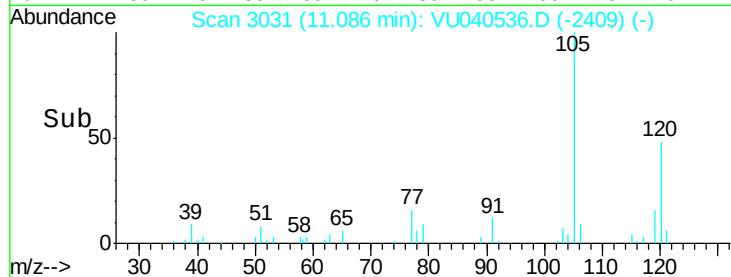
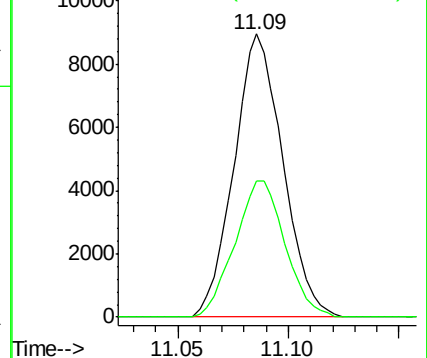
105 100

120 49.3 38.6 58.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 1.910 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. -0.00 min

Lab File: VU040536.D

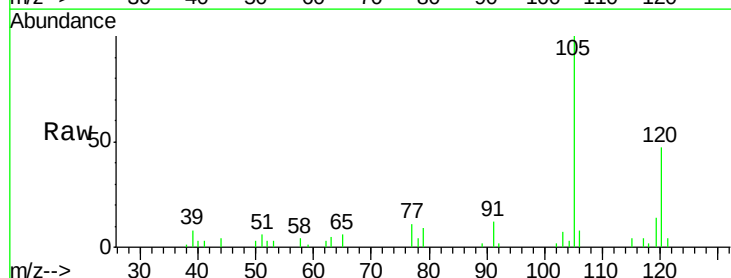
Acq: 06 Oct 2020 18:59

Tgt Ion:105 Resp: 13568

Ion Ratio Lower Upper

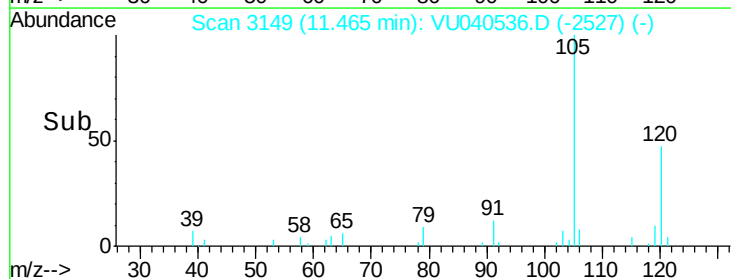
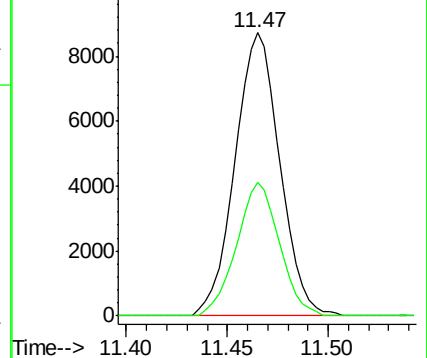
105 100

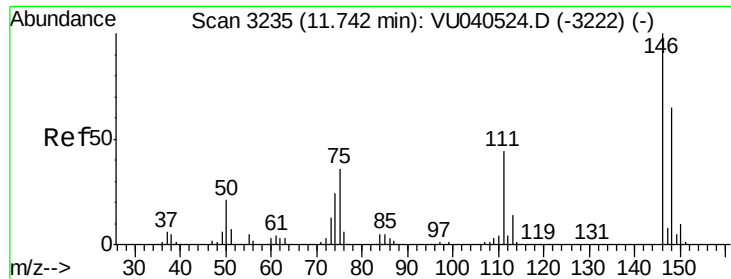
120 44.9 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.502 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-04

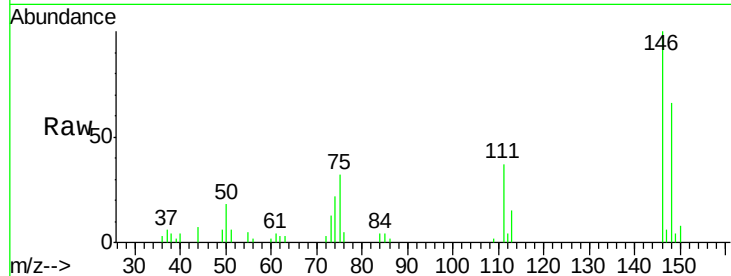
Tot Ion:146 Resp: 10401

Ion Ratio Lower Upper

146 100

111 37.3 30.8 57.2

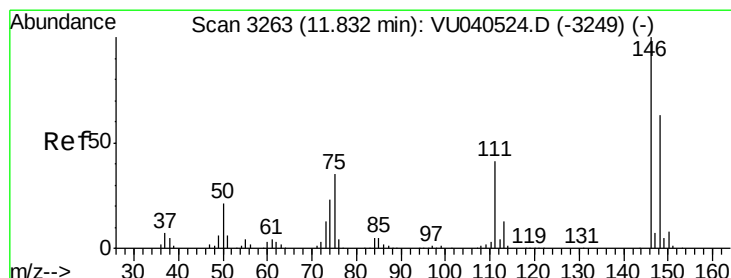
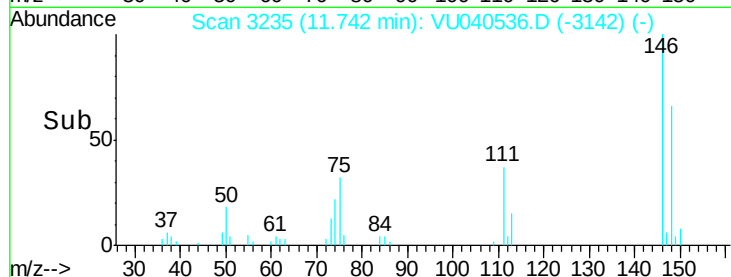
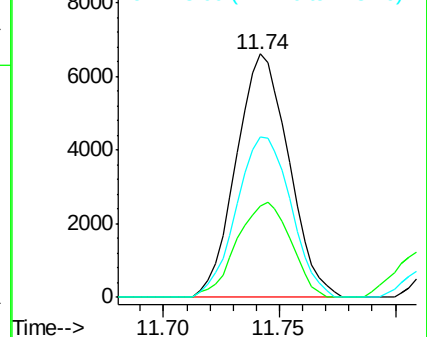
148 65.8 45.4 84.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 2.561 ug/L

RT: 11.83 min Scan# 3264

Delta R.T. 0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

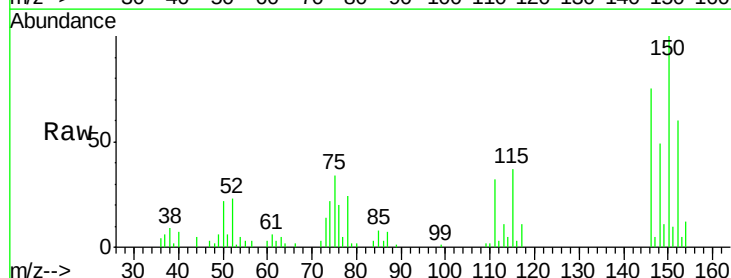
Tgt Ion:146 Resp: 11182

Ion Ratio Lower Upper

146 100

111 42.2 28.7 53.3

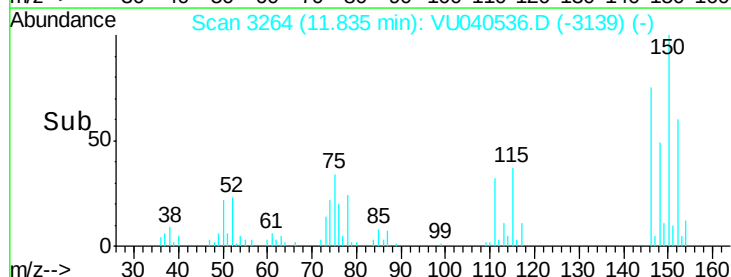
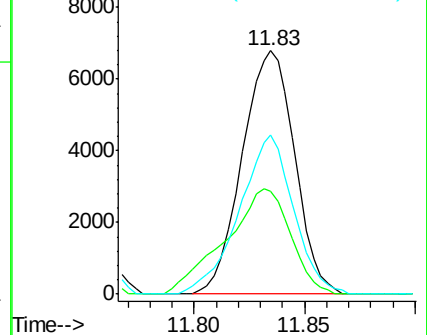
148 65.1 44.1 81.9

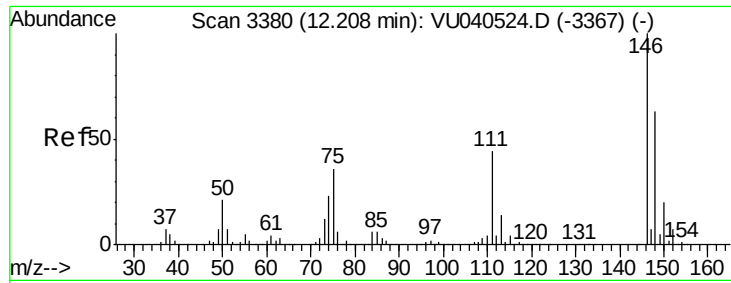


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

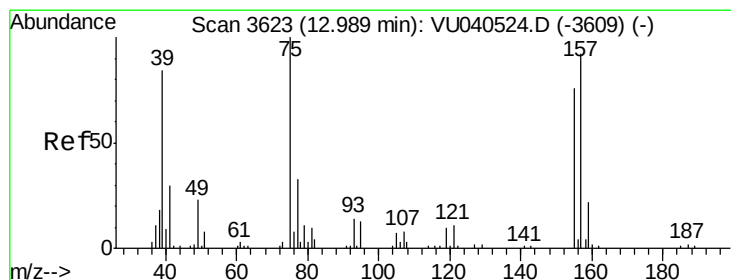
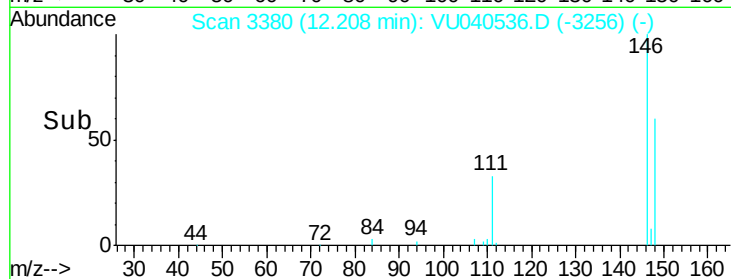
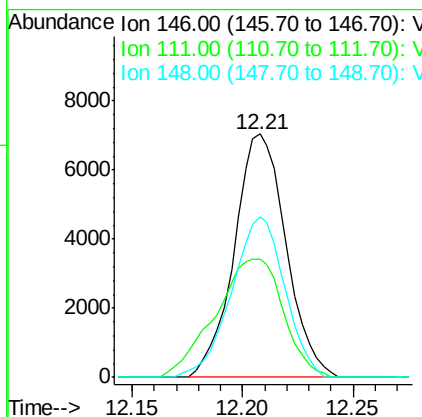
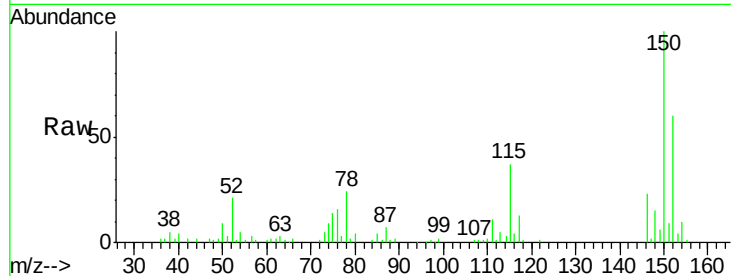




#67  
 1,2-Dichlorobenzene  
 Concen: 2.764 ug/L  
 RT: 12.21 min Scan# 3380  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

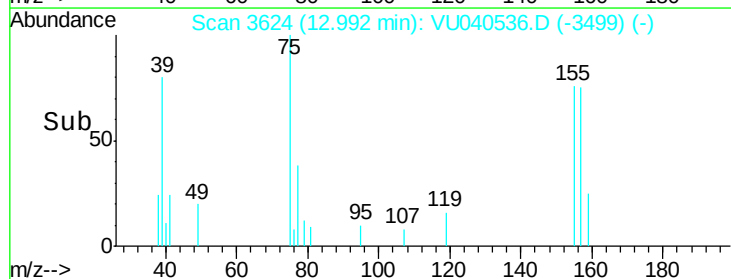
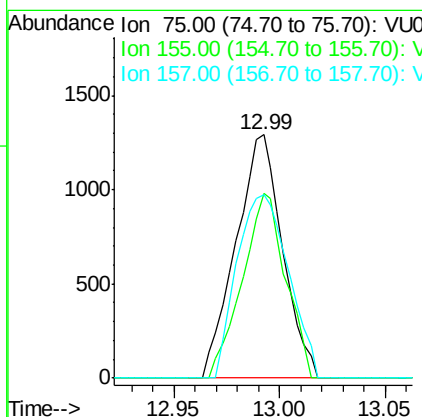
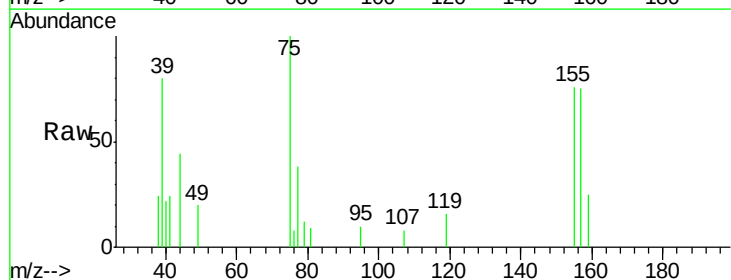
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

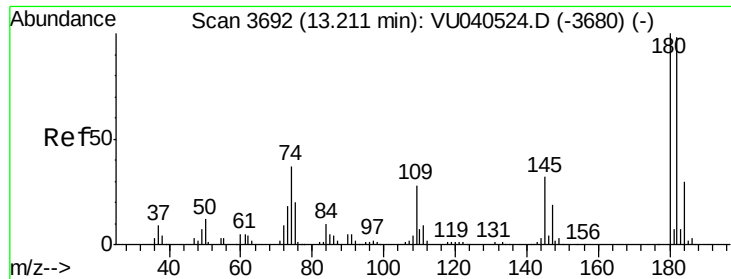
Tot Ion:146 Resp: 11509  
 Ion Ratio Lower Upper  
 146 100  
 111 48.3 35.7 53.5  
 148 66.0 50.6 75.8



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.437 ug/L  
 RT: 12.99 min Scan# 3624  
 Delta R.T. 0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion: 75 Resp: 1974  
 Ion Ratio Lower Upper  
 75 100  
 155 76.0 61.0 91.6  
 157 75.3 73.5 110.3

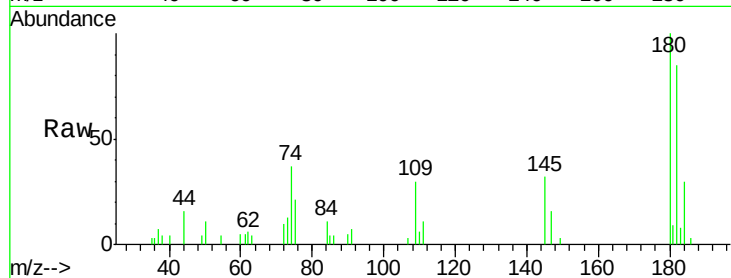




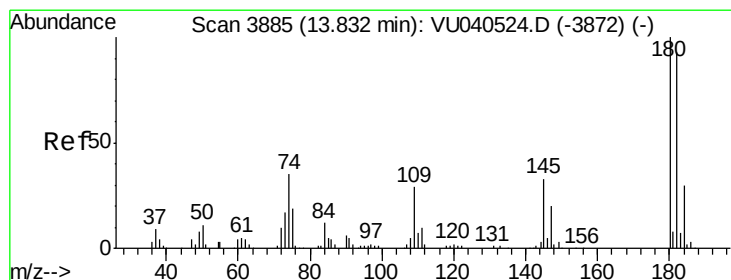
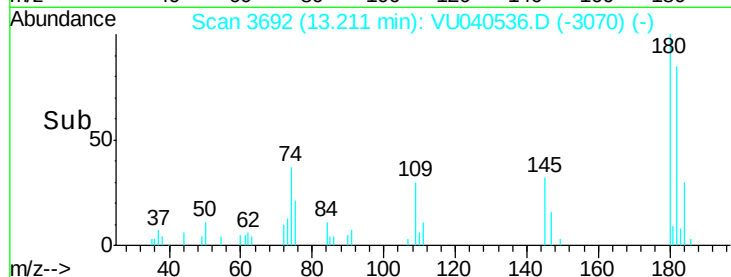
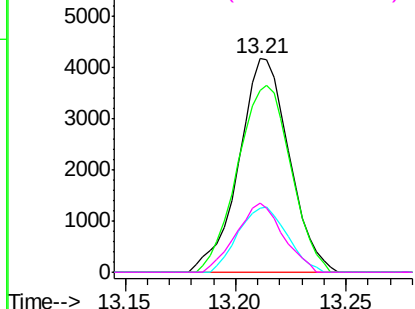
#69  
 1,3,5-Trichlorobenzene  
 Concen: 2.428 ug/L  
 RT: 13.21 min Scan# 3692  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-04

Tot Ion:180 Resp: 6612  
 Ion Ratio Lower Upper  
 180 100  
 182 92.3 76.9 115.3  
 184 29.7 24.2 36.2  
 145 30.3 25.4 38.2

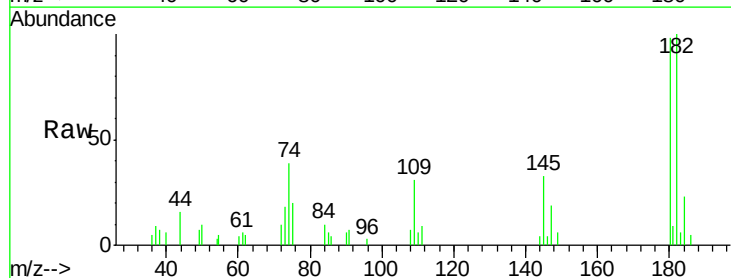


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

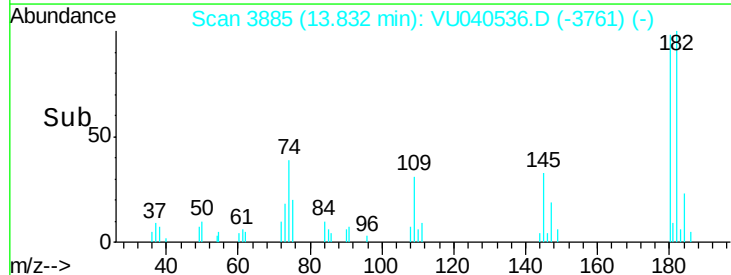
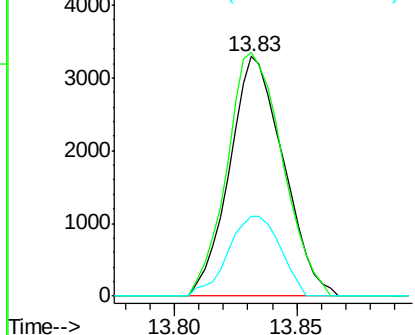


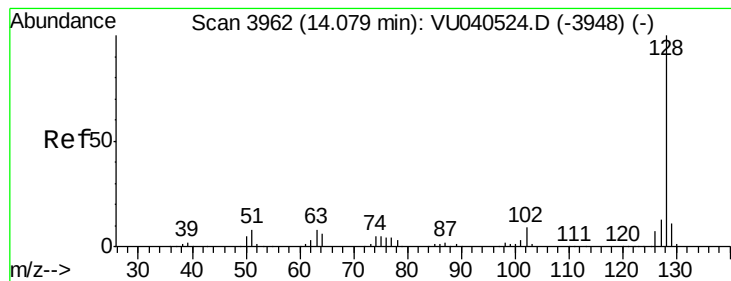
#70  
 1,2,4-trichlorobenzene  
 Concen: 2.140 ug/L  
 RT: 13.83 min Scan# 3885  
 Delta R.T. -0.00 min  
 Lab File: VU040536.D  
 Acq: 06 Oct 2020 18:59

Tgt Ion:180 Resp: 5051  
 Ion Ratio Lower Upper  
 180 100  
 182 104.8 75.0 112.6  
 145 32.3 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#71

Naphthalene

Concen: 1.501 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-04

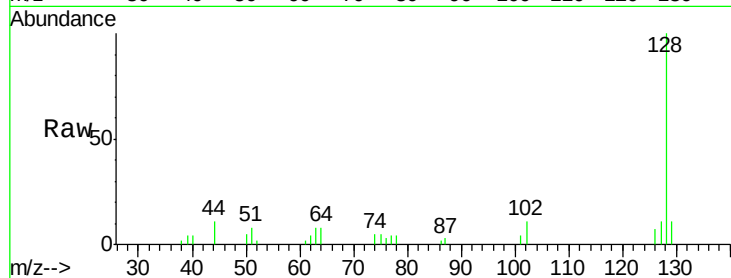
Tot Ion:128 Resp: 10952

Ion Ratio Lower Upper

128 100

127 12.5 10.5 15.7

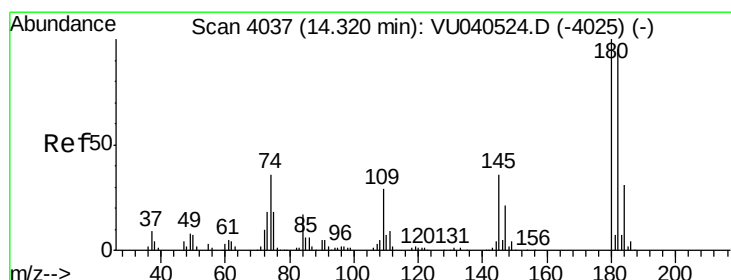
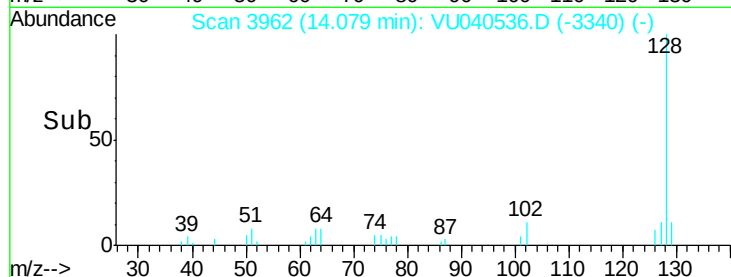
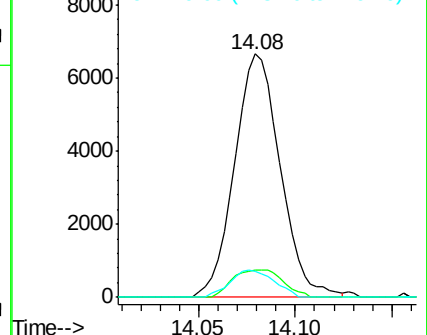
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 2.089 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU040536.D

Acq: 06 Oct 2020 18:59

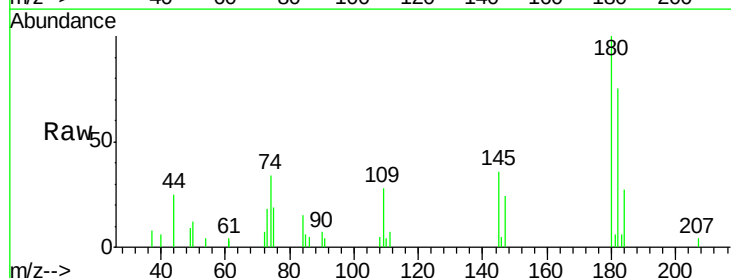
Tgt Ion:180 Resp: 4895

Ion Ratio Lower Upper

180 100

182 88.7 77.7 116.5

145 35.6 28.4 42.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

