

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102920\  
 Data File : VU041013.D  
 Acq On : 29 Oct 2020 12:31  
 Operator : SY/MD  
 Sample : L4485-14  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

Quant Time: Oct 29 12:53:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR102820WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Oct 29 12:31:13 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 110520   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 111720   | 5.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 48057    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 34819    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 93.60%  |
| 7) Chloroethane-d5             | 1.92   | 69    | 29476    | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 65    | 16842    | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.60%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 165900   | 53.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 107.08% |
| 24) Chloroform-d               | 5.08   | 84    | 73152    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 47588    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 32) Benzene-d6                 | 5.75   | 84    | 129466   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60%  |
| 36) 1,2-Dichloropropane-d6     | 6.70   | 67    | 47784    | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.40% |
| 41) Toluene-d8                 | 7.91   | 98    | 106197   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.20%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 18927    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.80%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 111473   | 51.31    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 102.62% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.75  | 84    | 43540    | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 99.80%  |
| 66) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 41833    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.00% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85   | 2123     | 0.225 | ug/L   | 90     |
| 3) Chloromethane               | 1.53 | 50   | 2688     | 0.272 | ug/L   | 87     |
| 5) Vinyl chloride              | 1.61 | 62   | 2577     | 0.264 | ug/L # | 73     |
| 6) Bromomethane                | 1.87 | 94   | 1391     | 0.267 | ug/L   | 89     |
| 9) Trichlorofluoromethane      | 2.15 | 101  | 3290     | 0.243 | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101  | 2201     | 0.280 | ug/L # | 88     |
| 12) 1,1-Dichloroethene         | 2.59 | 96   | 2289     | 0.306 | ug/L # | 1      |
| 14) Carbon disulfide           | 2.81 | 76   | 5920     | 0.249 | ug/L   | 98     |
| 16) Methylene chloride         | 3.06 | 84   | 3702     | 0.414 | ug/L   | 90     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73   | 4879     | 0.250 | ug/L # | 80     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96   | 1878     | 0.248 | ug/L   | 90     |
| 19) 1,1-Dichloroethane         | 3.89 | 63   | 3998     | 0.255 | ug/L   | 93     |
| 22) cis-1,2-Dichloroethene     | 4.68 | 96   | 2105     | 0.260 | ug/L   | 96     |
| 23) Bromochloromethane         | 4.99 | 128  | 522      | 0.135 | ug/L   | 92     |
| 25) Chloroform                 | 5.11 | 83   | 4953     | 0.309 | ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 5.81 | 62   | 2989     | 0.255 | ug/L   | 99     |
| 29) 1,1,1-Trichloroethane      | 5.33 | 97   | 3367     | 0.243 | ug/L   | 98     |

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 ClientSampleId :  
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 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Oct 29 12:31:13 2020  
 Response via : Initial Calibration

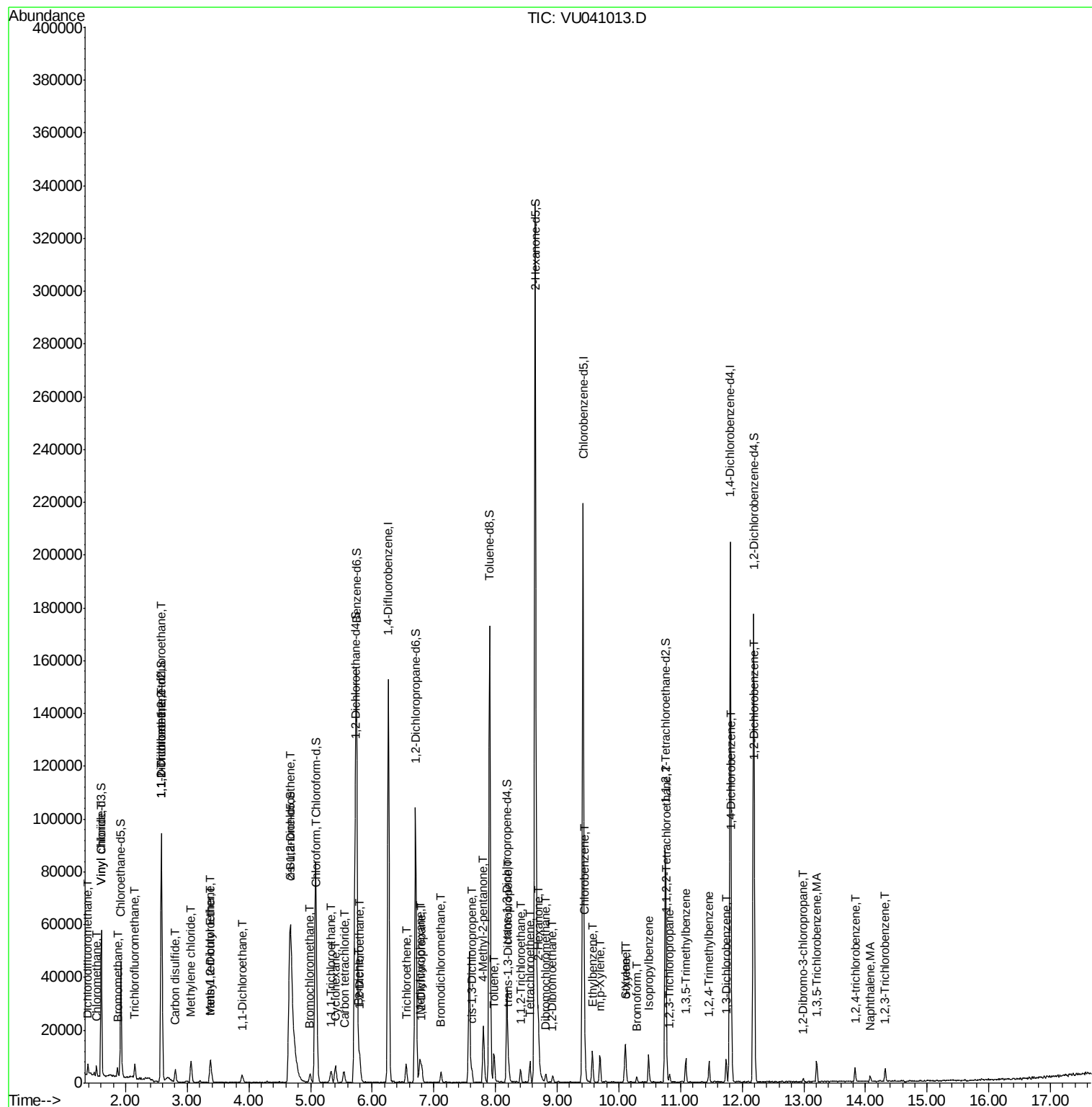
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 30) Cyclohexane                | 5.40  | 56   | 2681     | 0.209 | ug/L # | 83       |
| 31) Carbon tetrachloride       | 5.55  | 117  | 2935     | 0.248 | ug/L   | 98       |
| 33) Benzene                    | 5.79  | 78   | 8008     | 0.246 | ug/L   | 100      |
| 34) Trichloroethene            | 6.55  | 95   | 2182     | 0.252 | ug/L   | 91       |
| 35) Methylcyclohexane          | 6.77  | 83   | 2712     | 0.225 | ug/L   | 95       |
| 37) 1,2-Dichloropropane        | 6.81  | 63   | 2139     | 0.232 | ug/L # | 89       |
| 38) Bromodichloromethane       | 7.11  | 83   | 2611     | 0.227 | ug/L   | 94       |
| 39) cis-1,3-Dichloropropene    | 7.62  | 75   | 2908     | 0.238 | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone       | 7.80  | 43   | 15832    | 2.273 | ug/L # | 89       |
| 42) Toluene                    | 7.97  | 91   | 7647     | 0.233 | ug/L   | 93       |
| 44) trans-1,3-Dichloropropene  | 8.21  | 75   | 3745     | 0.329 | ug/L # | 79       |
| 45) 1,1,2-Trichloroethane      | 8.41  | 97   | 1632     | 0.248 | ug/L # | 88       |
| 47) Tetrachloroethene          | 8.56  | 164  | 1663     | 0.277 | ug/L   | 97       |
| 48) 2-Hexanone                 | 8.69  | 43   | 15505    | 2.967 | ug/L # | 98       |
| 49) Dibromochloromethane       | 8.82  | 129  | 1776     | 0.234 | ug/L   | 82       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 1288     | 0.209 | ug/L # | 79       |
| 51) Chlorobenzene              | 9.45  | 112  | 4809     | 0.228 | ug/L   | 88       |
| 52) Ethylbenzene               | 9.57  | 91   | 7669     | 0.225 | ug/L   | 98       |
| 53) m,p-Xylene                 | 9.69  | 106  | 2503     | 0.203 | ug/L   | 63       |
| 54) o-Xylene                   | 10.10 | 106  | 2439     | 0.207 | ug/L   | 98       |
| 55) Styrene                    | 10.11 | 104  | 3854     | 0.188 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 2342     | 0.276 | ug/L # | 85       |
| 59) Bromoform                  | 10.29 | 173  | 959      | 0.256 | ug/L # | 75       |
| 60) Isopropylbenzene           | 10.48 | 105  | 6117     | 0.219 | ug/L   | 94       |
| 61) 1,2,3-Trichloropropane     | 10.82 | 75   | 1611     | 0.278 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene     | 11.08 | 105  | 5069     | 0.226 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene     | 11.46 | 105  | 4491     | 0.198 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene        | 11.74 | 146  | 3576     | 0.257 | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene        | 11.83 | 146  | 3801     | 0.267 | ug/L   | 96       |
| 67) 1,2-Dichlorobenzene        | 12.21 | 146  | 3515     | 0.261 | ug/L   | 98       |
| 68) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 383      | 0.287 | ug/L # | 70       |
| 69) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 2434     | 0.255 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene     | 13.83 | 180  | 1844     | 0.229 | ug/L   | 94       |
| 71) Naphthalene                | 14.08 | 128  | 2320     | 0.165 | ug/L # | 92       |
| 72) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 1762     | 0.234 | ug/L # | 89       |

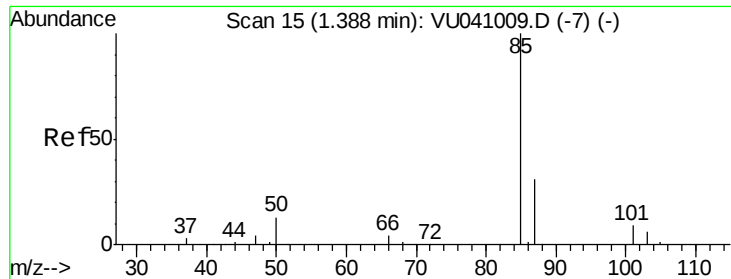
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.225 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

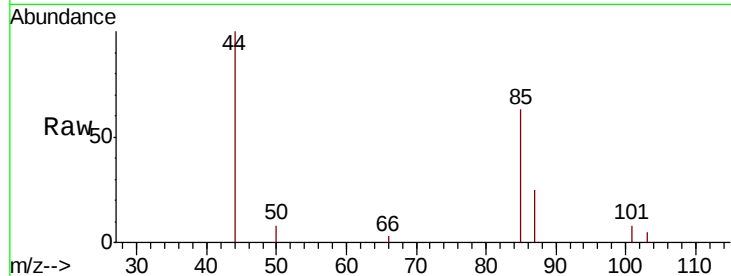
MDL-WATER-07

Tot Ion: 85 Resp: 2123

Ion Ratio Lower Upper

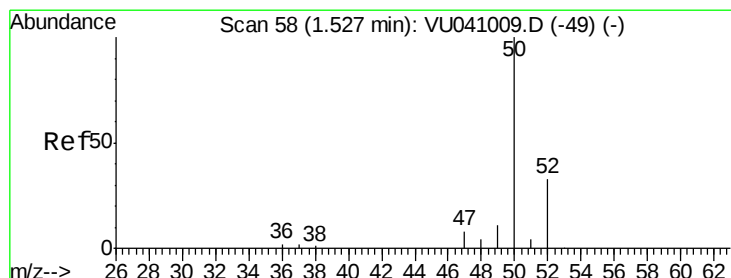
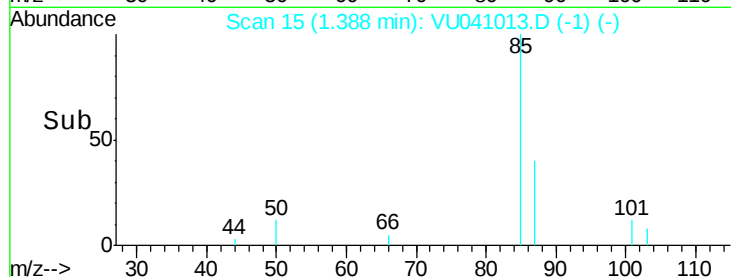
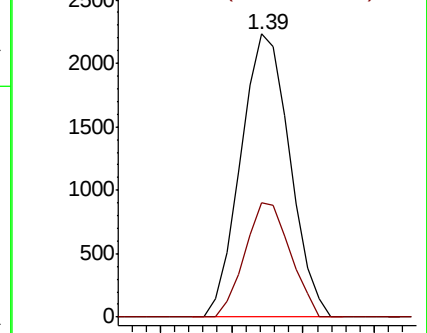
85 100

87 37.2 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.272 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041013.D

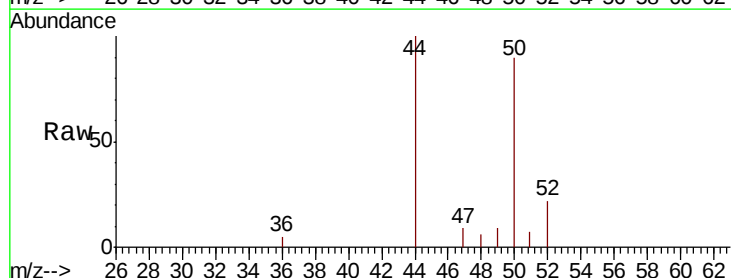
Acq: 29 Oct 2020 12:31

Tgt Ion: 50 Resp: 2688

Ion Ratio Lower Upper

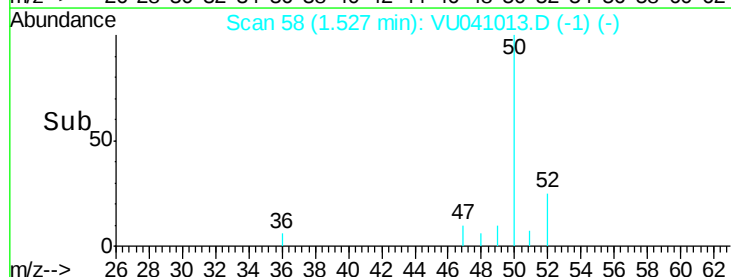
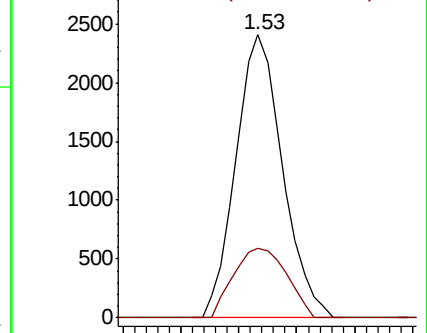
50 100

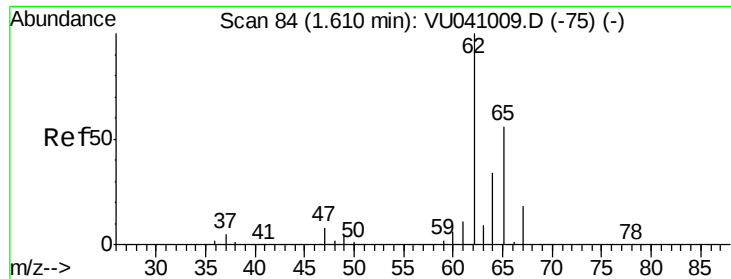
52 24.8 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.264 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

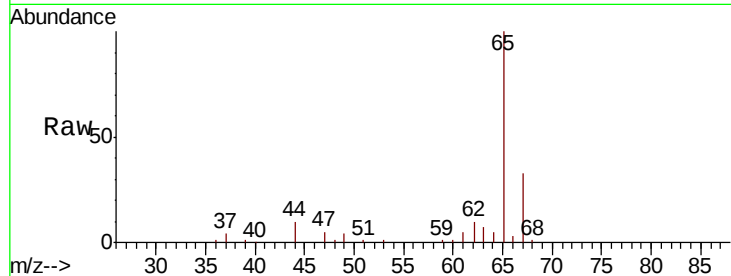
MDL-WATER-07

Tot Ion: 62 Resp: 2577

Ion Ratio Lower Upper

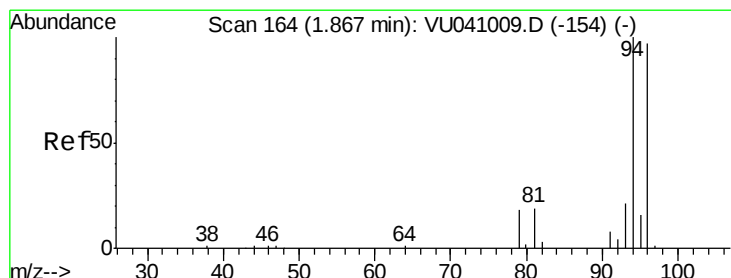
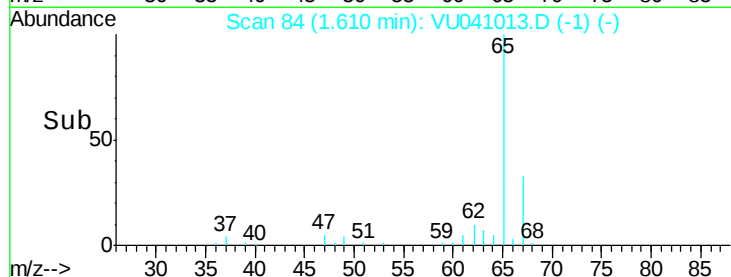
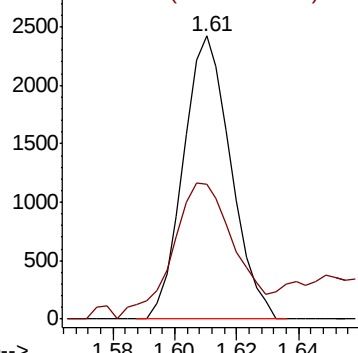
62 100

64 47.6 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.267 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU041013.D

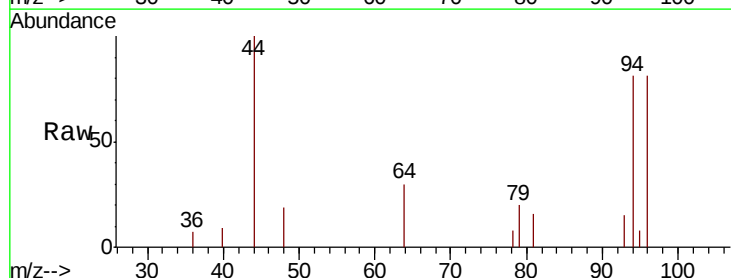
Acq: 29 Oct 2020 12:31

Tgt Ion: 94 Resp: 1391

Ion Ratio Lower Upper

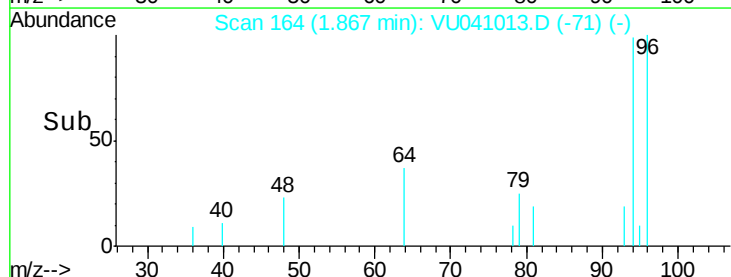
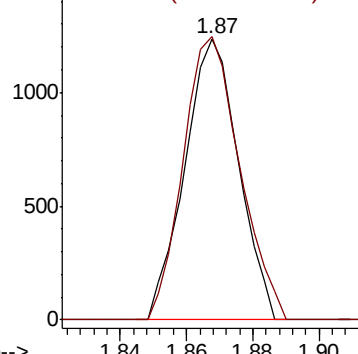
94 100

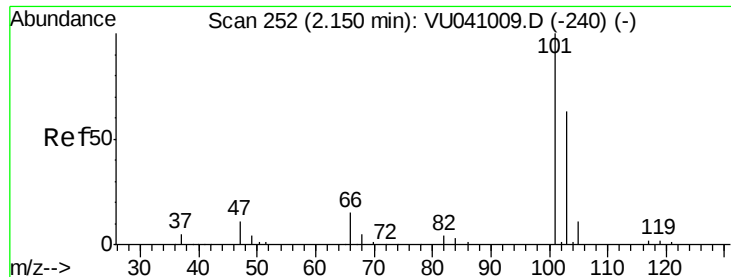
96 100.6 63.2 117.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



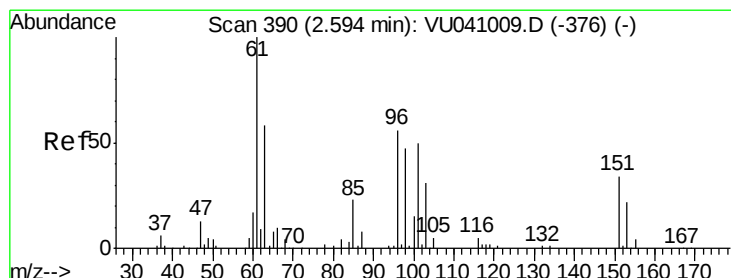
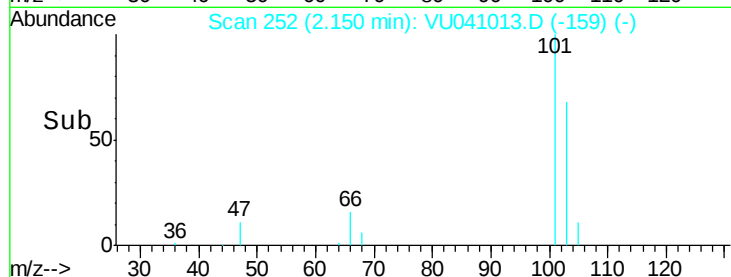
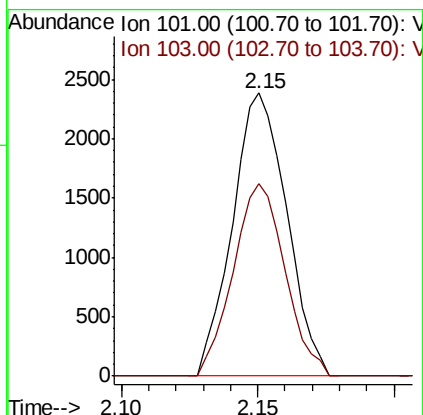
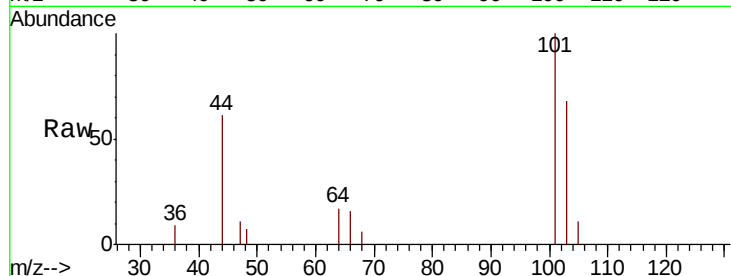


#9

Trichlorofluoromethane  
 Concen: 0.243 ug/L  
 RT: 2.15 min Scan# 252  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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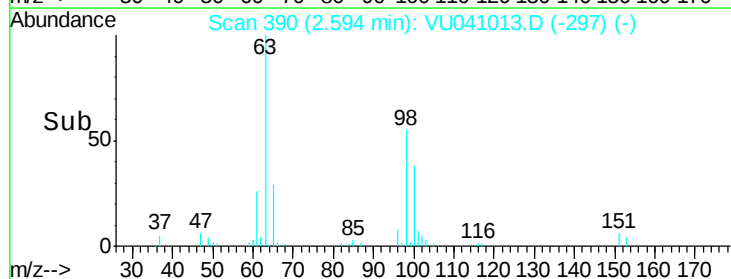
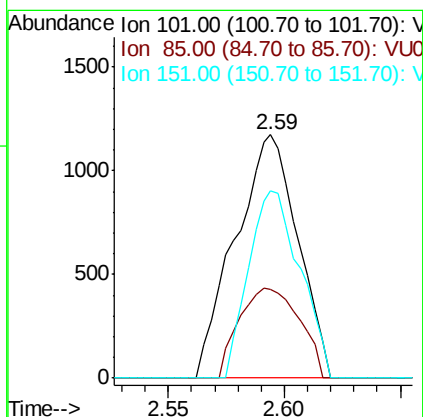
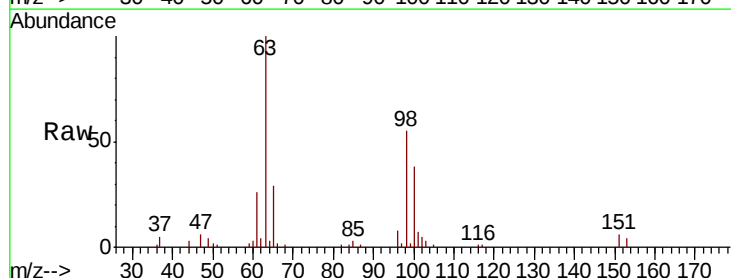
Tot Ion:101 Resp: 3290  
 Ion Ratio Lower Upper  
 101 100  
 103 64.9 51.0 76.4

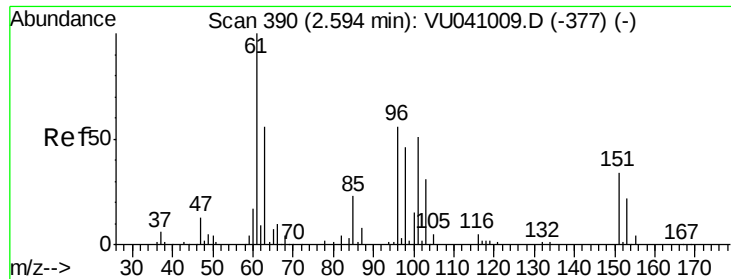


#10

1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.280 ug/L  
 RT: 2.59 min Scan# 390  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion:101 Resp: 2201  
 Ion Ratio Lower Upper  
 101 100  
 85 35.7 38.1 57.1#  
 151 63.2 56.0 84.0





#12

1,1-Dichloroethene

Concen: 0.306 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-07

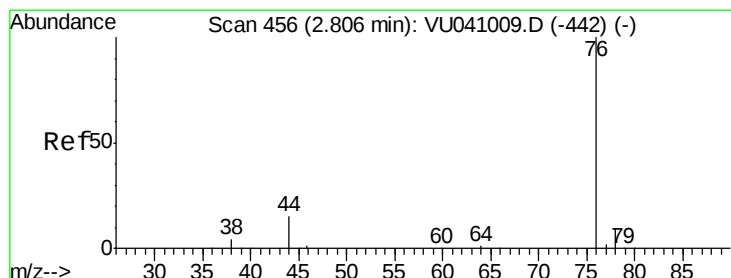
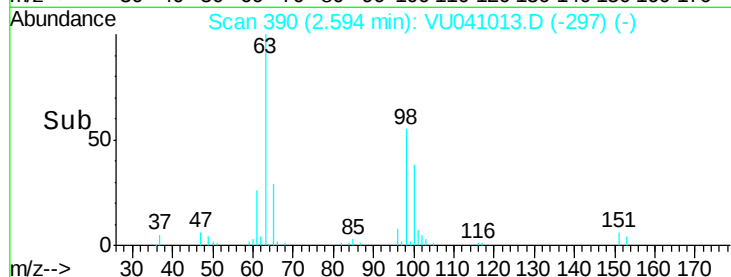
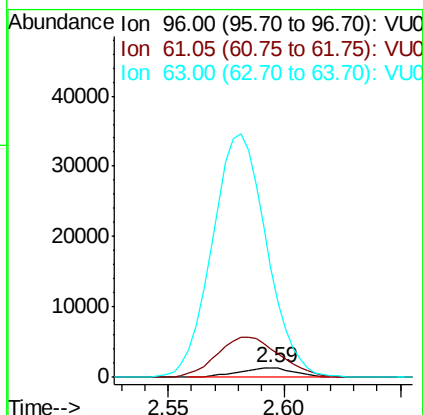
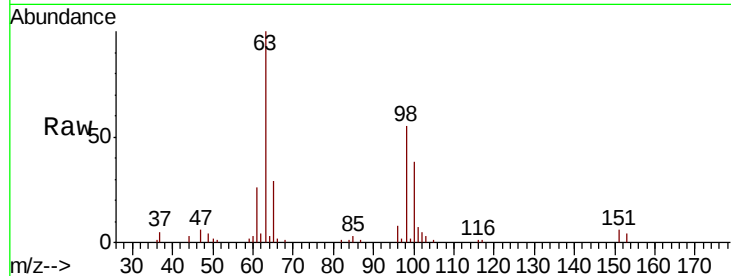
Tot Ion: 96 Resp: 2289

Ion Ratio Lower Upper

96 100

61 305.1 130.2 241.8#

63 1177.5 83.7 155.5#



#14

Carbon disulfide

Concen: 0.249 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041013.D

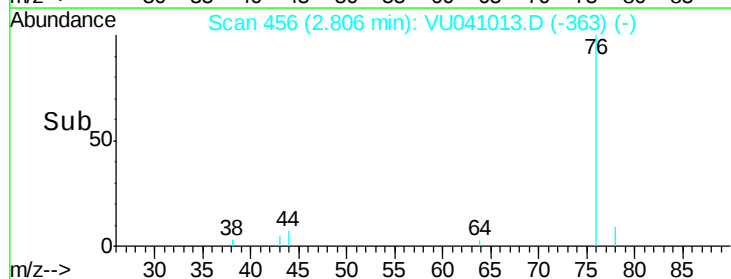
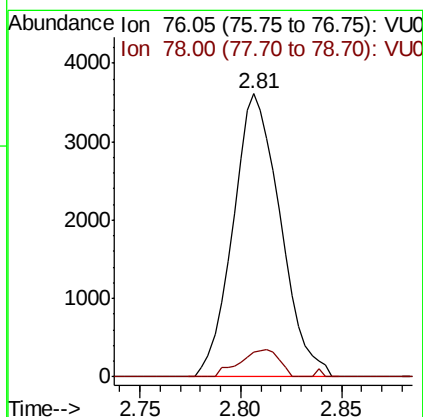
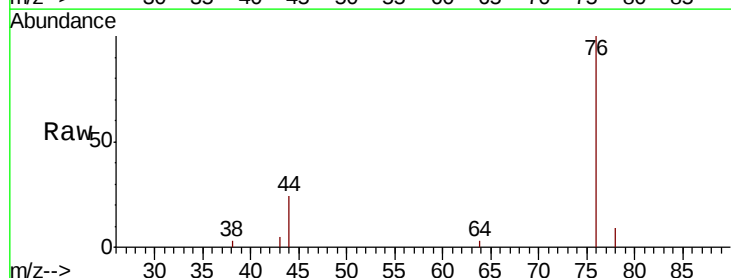
Acq: 29 Oct 2020 12:31

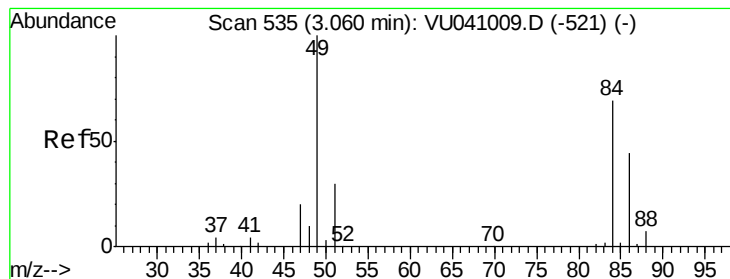
Tgt Ion: 76 Resp: 5920

Ion Ratio Lower Upper

76 100

78 8.7 7.7 11.5





#16

Methylene chloride

Concen: 0.414 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

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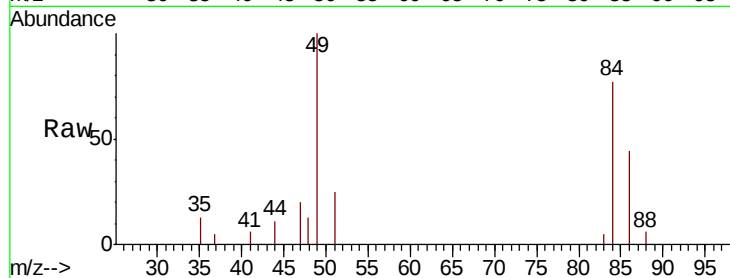
Tot Ion: 84 Resp: 3702

Ion Ratio Lower Upper

84 100

86 56.3 44.2 82.0

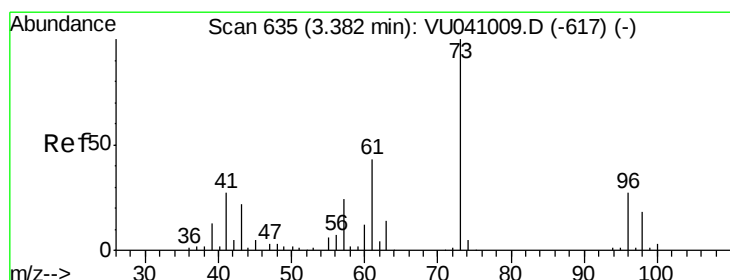
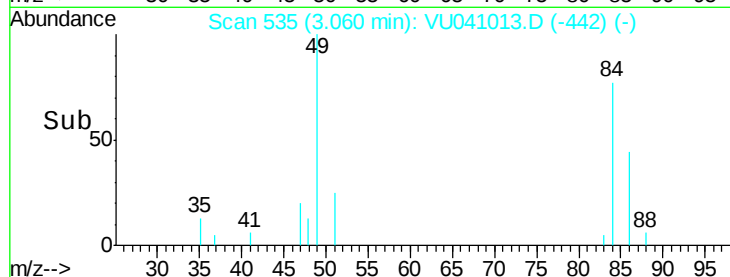
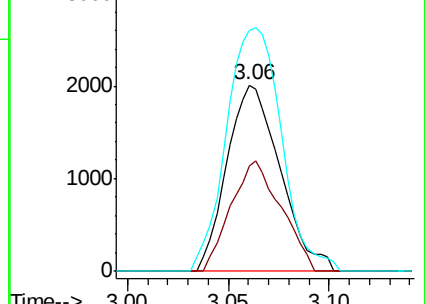
49 129.1 99.3 184.3



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



#17

Methyl tert-butyl Ether

Concen: 0.250 ug/L

RT: 3.38 min Scan# 634

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

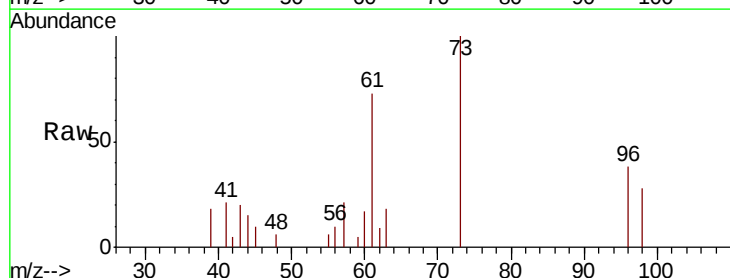
Tgt Ion: 73 Resp: 4879

Ion Ratio Lower Upper

73 100

43 12.4 19.5 29.3#

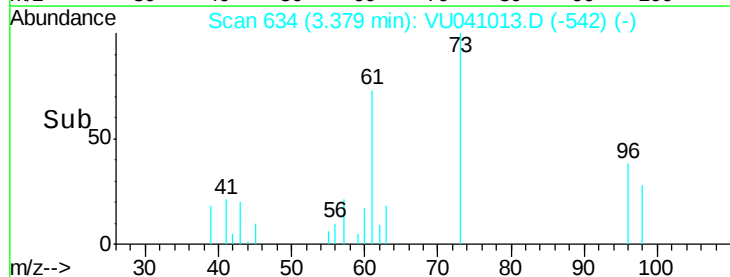
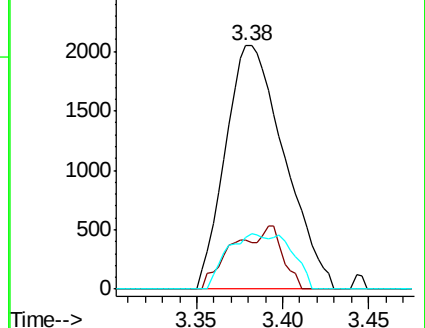
57 15.7 18.9 28.3#

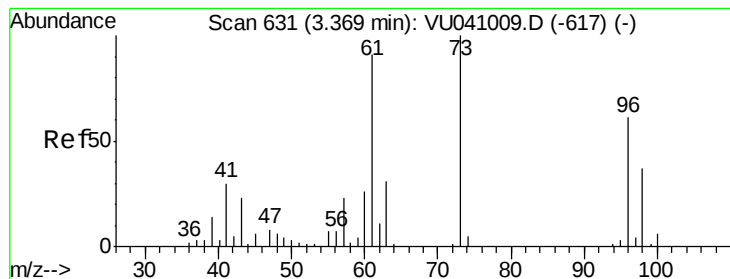


Abundance Ion 73.10 (72.80 to 73.80): VU0

Ion 43.05 (42.75 to 43.75): VU0

Ion 57.10 (56.80 to 57.80): VU0





#18

trans-1,2-Dichloroethene

Concen: 0.248 ug/L

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-07

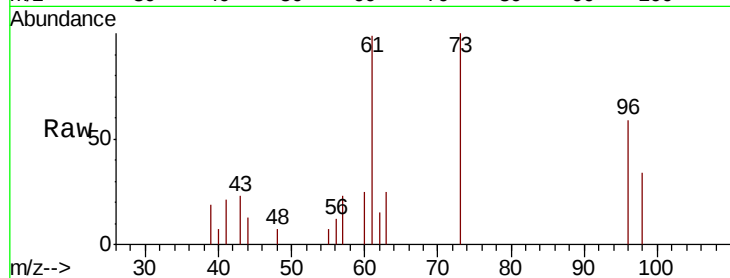
Tot Ion: 96 Resp: 1878

Ion Ratio Lower Upper

96 100

61 168.0 107.2 199.0

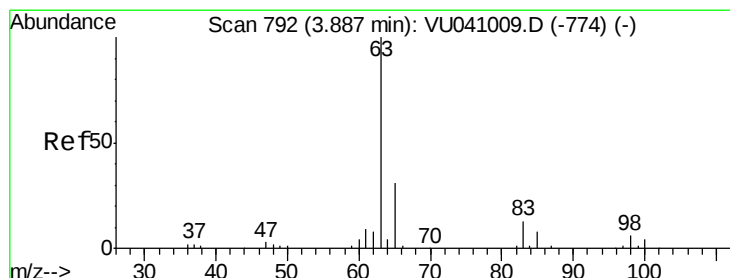
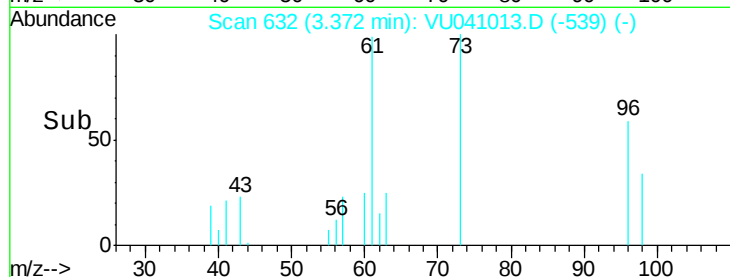
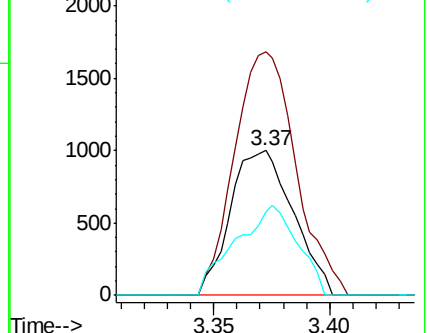
98 57.7 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU041013.D (-539) (-)

Ion 61.05 (60.75 to 61.75): VU041013.D (-539) (-)

Ion 97.95 (97.65 to 98.65): VU041013.D (-539) (-)



#19

1,1-Dichloroethane

Concen: 0.255 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

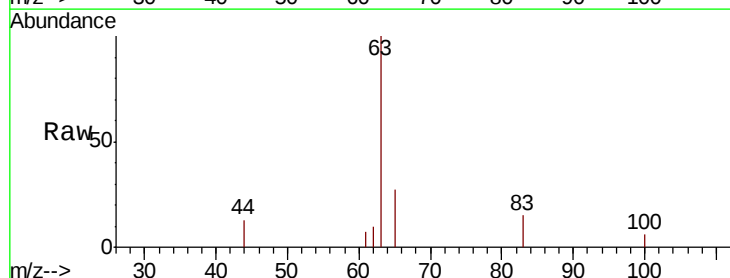
Tgt Ion: 63 Resp: 3998

Ion Ratio Lower Upper

63 100

65 26.6 21.8 40.4

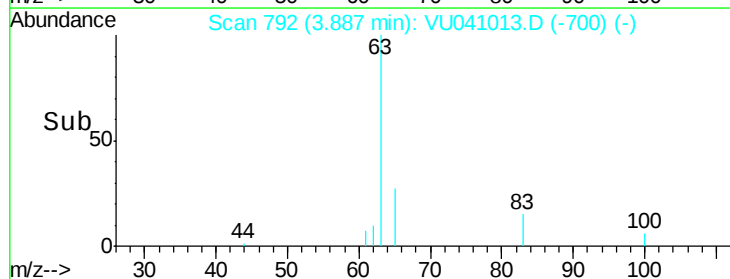
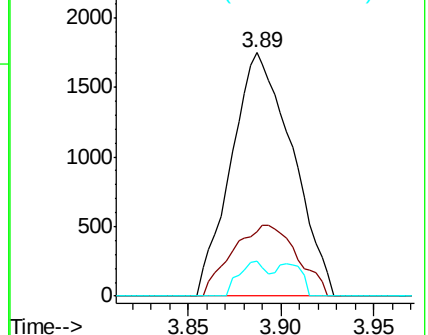
83 14.6 9.3 17.3

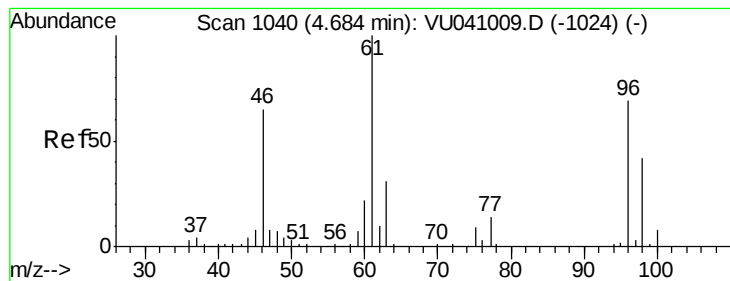


Abundance Ion 63.10 (62.80 to 63.80): VU041013.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VU041013.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU041013.D (-700) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.260 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-07

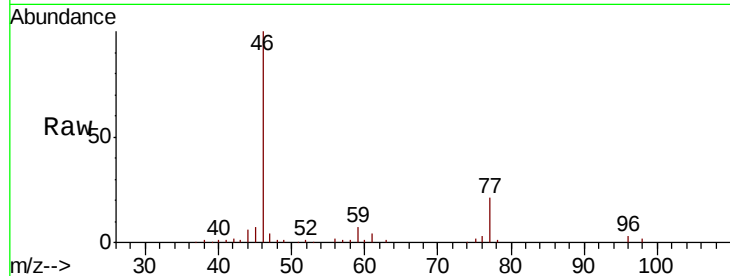
Tot Ion: 96 Resp: 2105

Ion Ratio Lower Upper

96 100

61 142.9 101.7 188.9

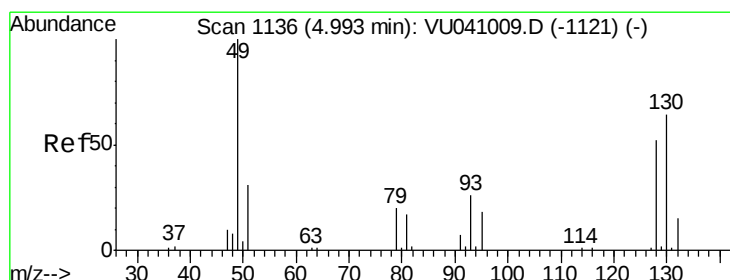
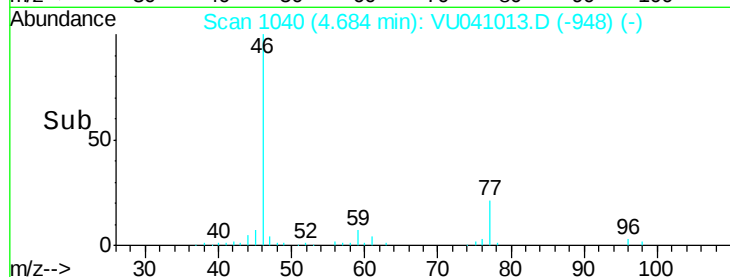
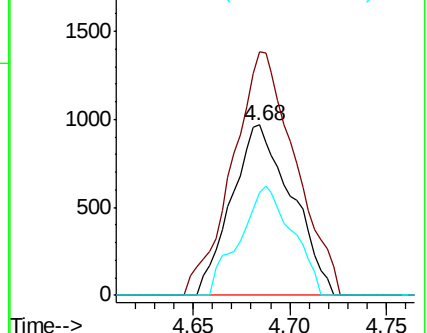
98 60.1 46.4 86.2



Abundance Ion 96.00 (95.70 to 96.70): VU041013.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU041013.D (-948) (-)

Ion 98.00 (97.70 to 98.70): VU041013.D (-948) (-)



#23

Bromochloromethane

Concen: 0.135 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Tgt Ion: 128 Resp: 522

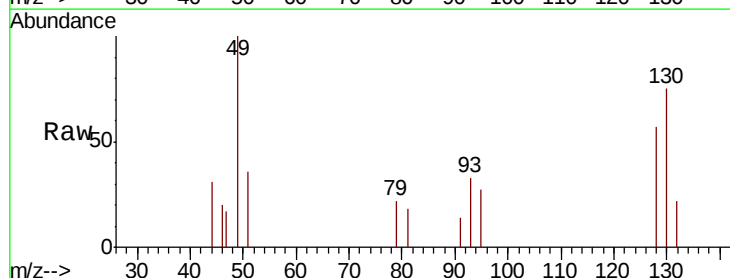
Ion Ratio Lower Upper

128 100

49 176.2 137.5 255.4

130 132.2 90.2 167.4

51 64.2 49.8 74.6

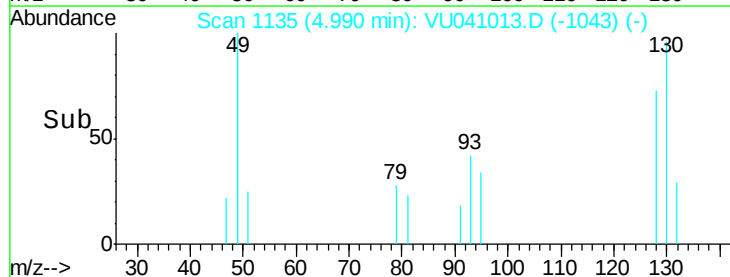
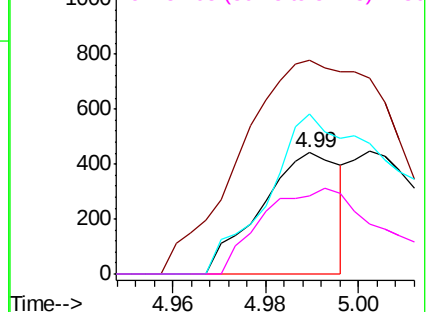


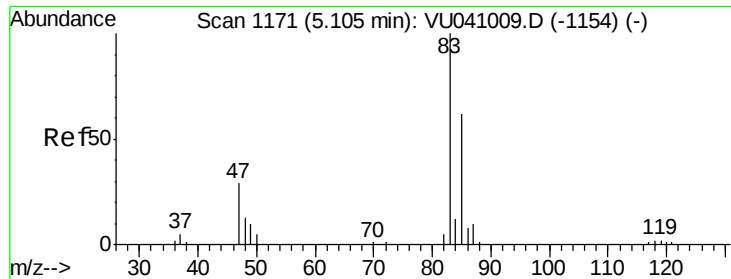
Abundance Ion 127.90 (127.60 to 128.60): VU041013.D (-1043) (-)

Ion 49.10 (48.80 to 49.80): VU041013.D (-1043) (-)

Ion 129.95 (129.65 to 130.65): VU041013.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VU041013.D (-1043) (-)

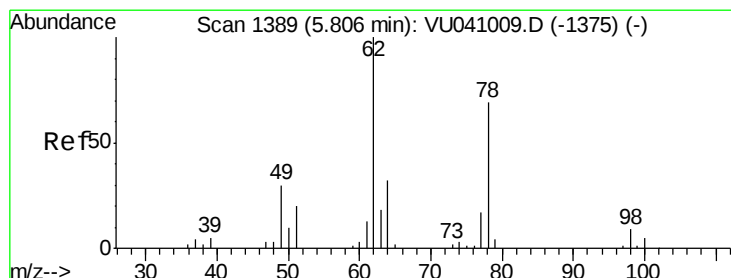
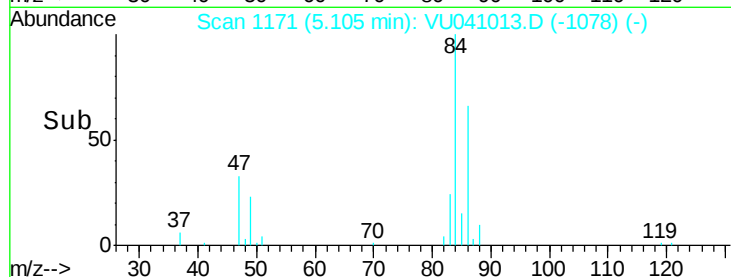
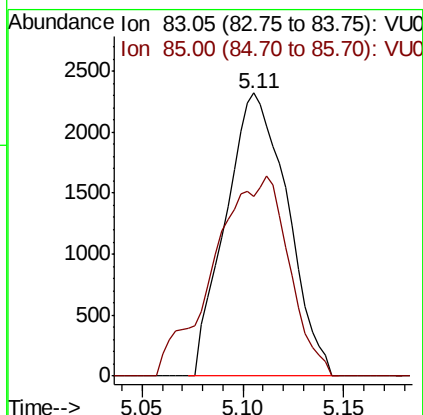
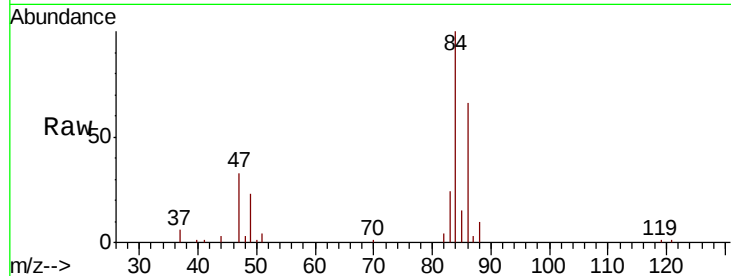




#25  
Chloroform  
Concen: 0.309 ug/L  
RT: 5.11 min Scan# 1171  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

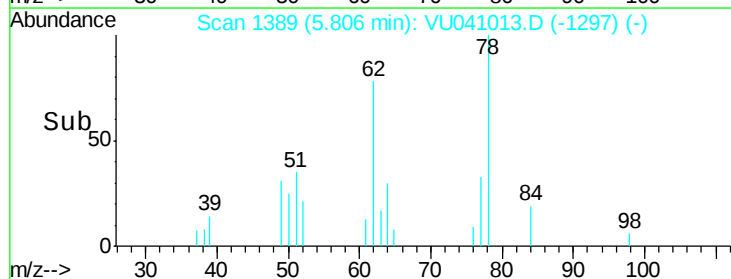
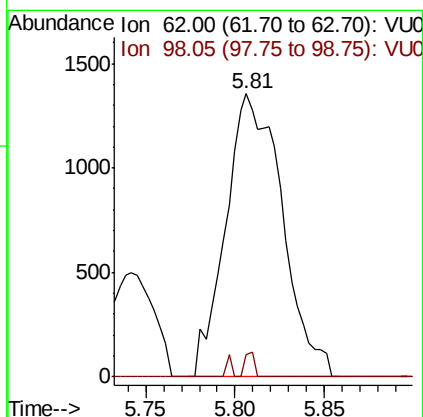
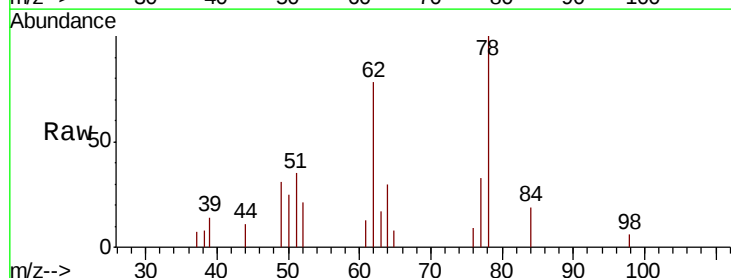
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-07

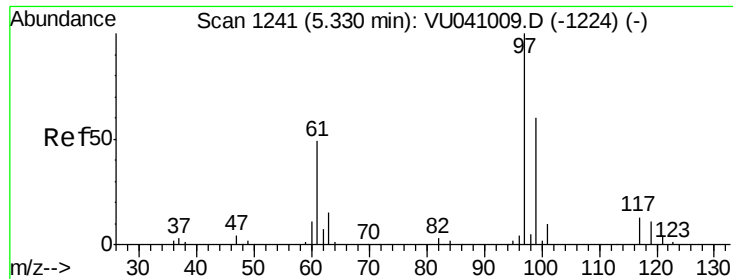
Tot Ion: 83 Resp: 4953  
Ion Ratio Lower Upper  
83 100  
85 63.5 45.5 84.5



#27  
1,2-Dichloroethane  
Concen: 0.255 ug/L  
RT: 5.81 min Scan# 1389  
Delta R.T. -0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Tgt Ion: 62 Resp: 2989  
Ion Ratio Lower Upper  
62 100  
98 8.0 6.1 9.1

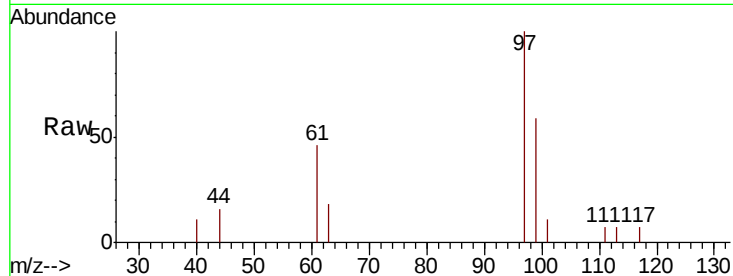




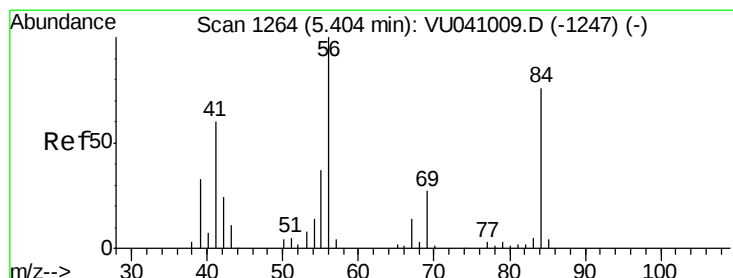
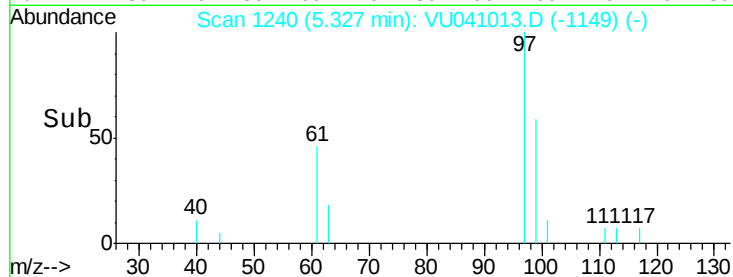
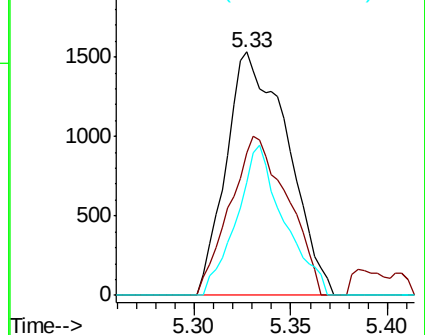
#29  
 1,1,1-Trichloroethane  
 Concen: 0.243 ug/L  
 RT: 5.33 min Scan# 1240  
 Delta R.T. -0.01 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

Tot Ion: 97 Resp: 3367  
 Ion Ratio Lower Upper  
 97 100  
 99 61.8 50.2 75.2  
 61 47.9 39.6 59.4

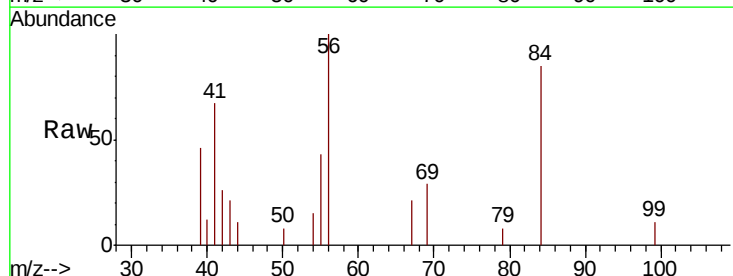


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

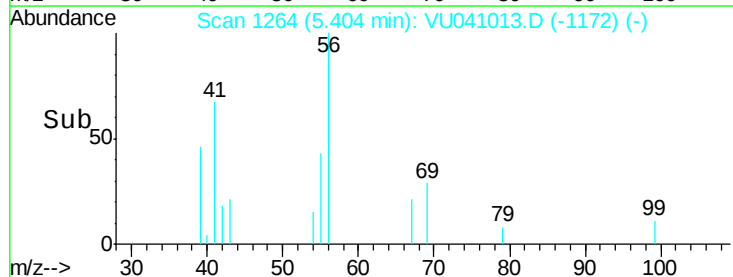
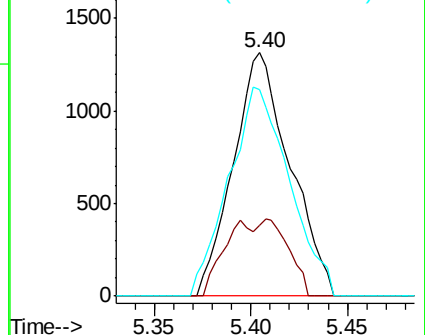


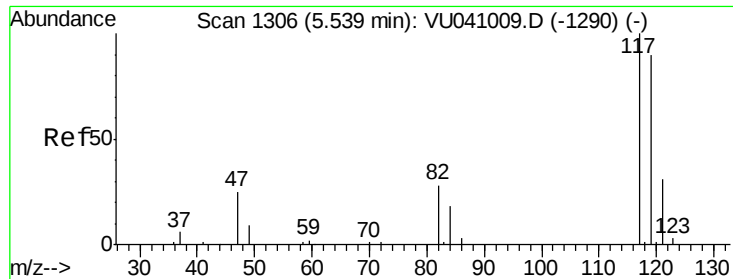
#30  
 Cyclohexane  
 Concen: 0.209 ug/L  
 RT: 5.40 min Scan# 1264  
 Delta R.T. -0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion: 56 Resp: 2681  
 Ion Ratio Lower Upper  
 56 100  
 69 17.3 23.2 34.8#  
 84 91.5 62.9 94.3



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.248 ug/L

RT: 5.55 min Scan# 1309

Delta R.T. 0.01 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

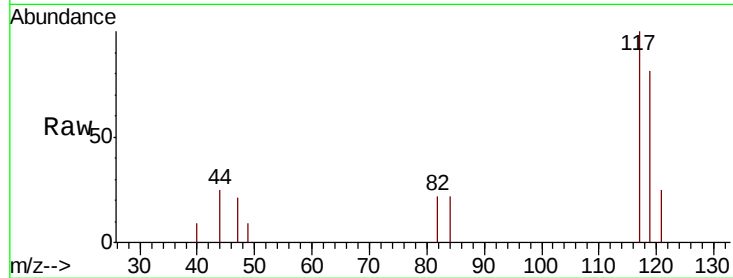
MDL-WATER-07

Tot Ion:117 Resp: 2935

Ion Ratio Lower Upper

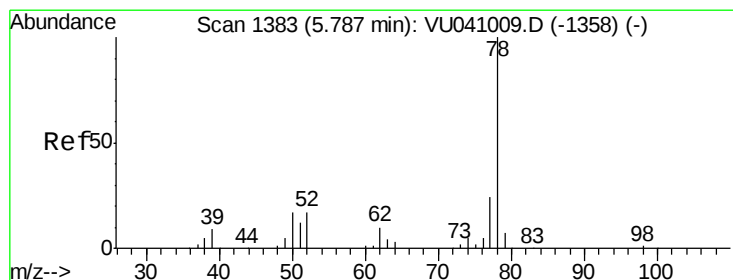
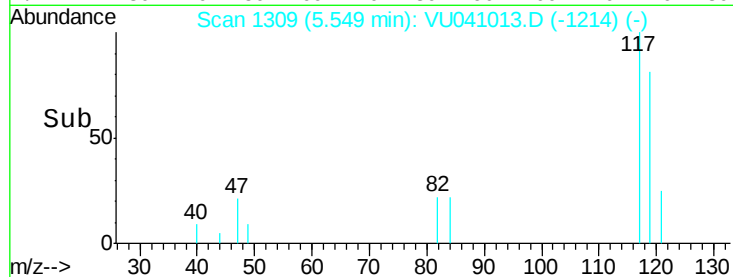
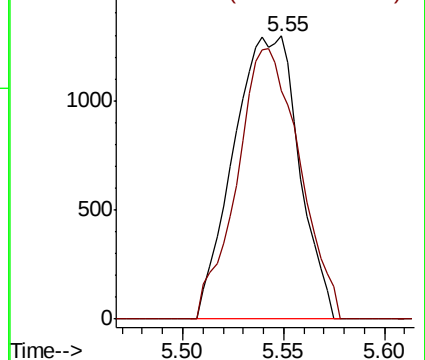
117 100

119 91.3 74.4 111.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.246 ug/L

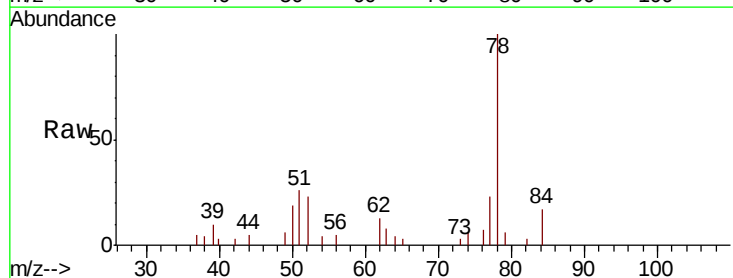
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

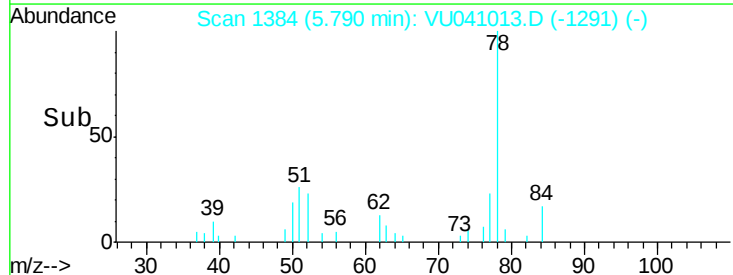
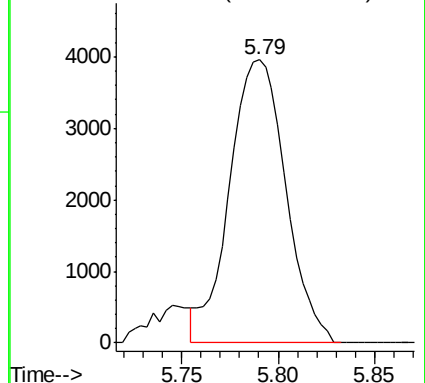
Lab File: VU041013.D

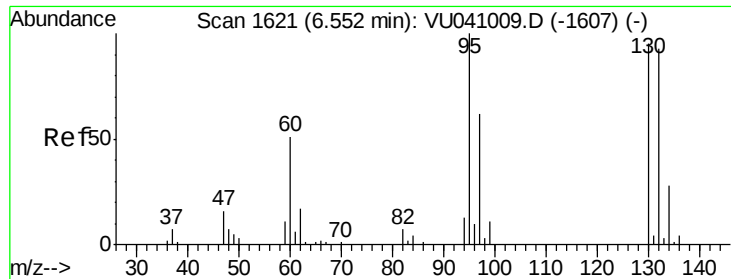
Acq: 29 Oct 2020 12:31

Tgt Ion: 78 Resp: 8008



Abundance Ion 78.10 (77.80 to 78.80): VU0

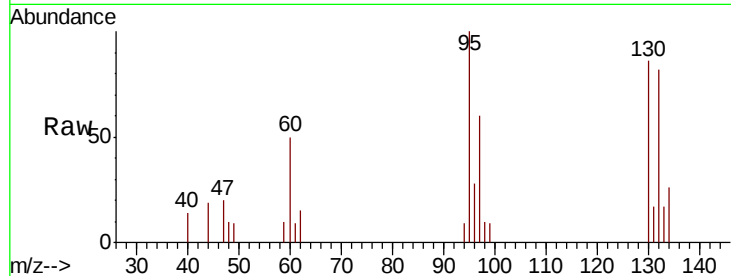




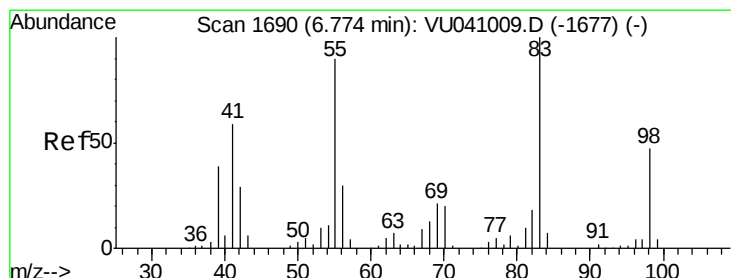
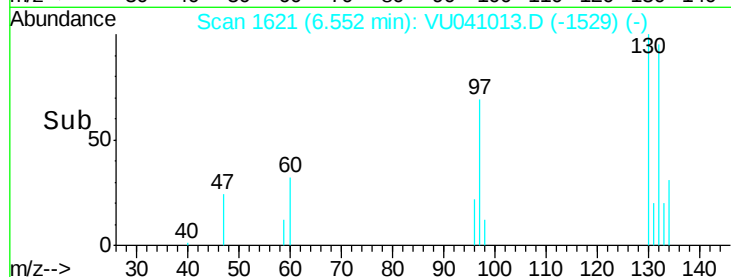
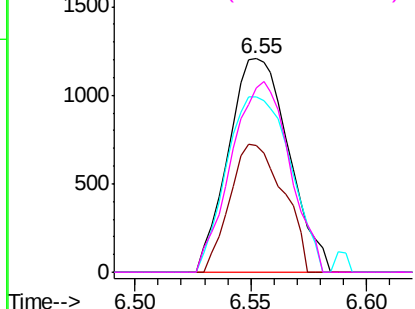
#34  
 Trichloroethene  
 Concen: 0.252 ug/L  
 RT: 6.55 min Scan# 1621  
 Delta R.T. -0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

Tot Ion: 95 Resp: 2182  
 Ion Ratio Lower Upper  
 95 100  
 97 59.6 43.8 81.4  
 132 82.2 64.5 119.7  
 130 86.2 67.6 125.6

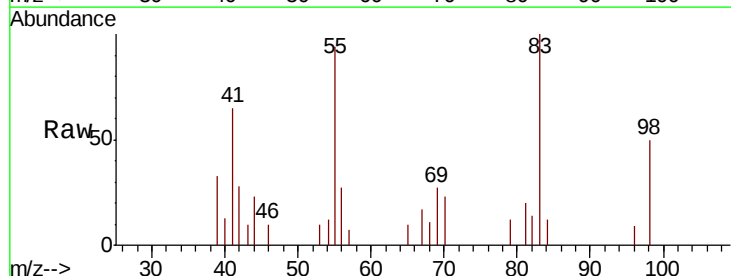


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

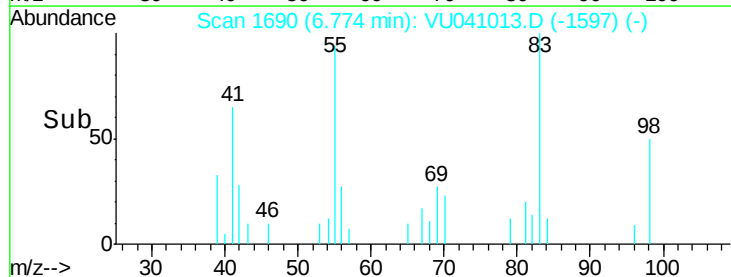
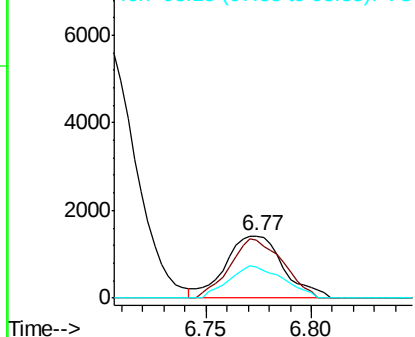


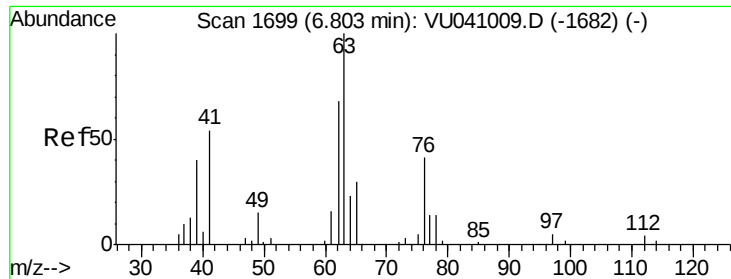
#35  
 Methylcyclohexane  
 Concen: 0.225 ug/L  
 RT: 6.77 min Scan# 1690  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion: 83 Resp: 2712  
 Ion Ratio Lower Upper  
 83 100  
 55 86.7 72.7 109.1  
 98 48.2 35.7 53.5



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

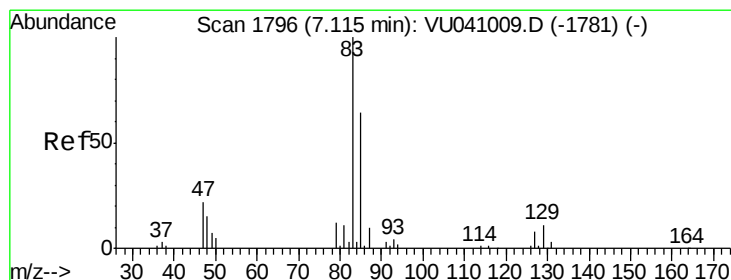
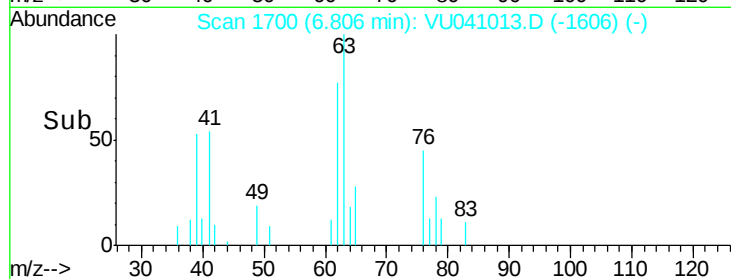
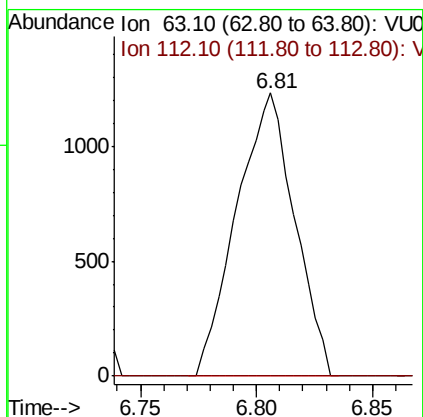
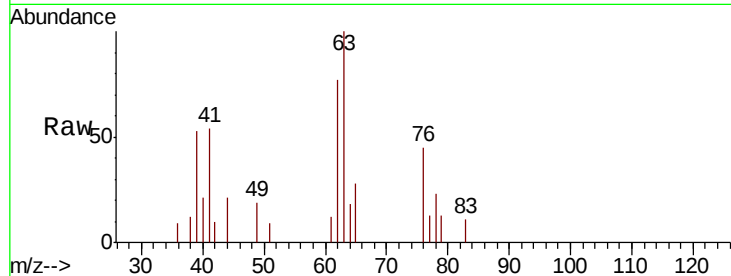




#37  
 1,2-Dichloropropane  
 Concen: 0.232 ug/L  
 RT: 6.81 min Scan# 1700  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

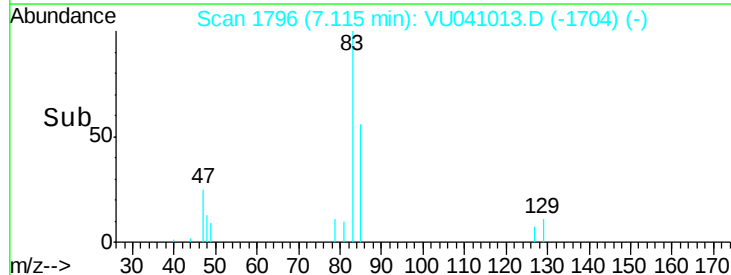
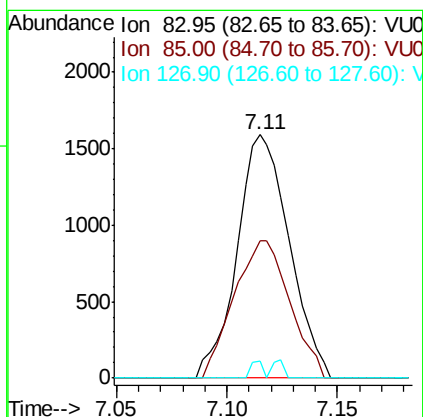
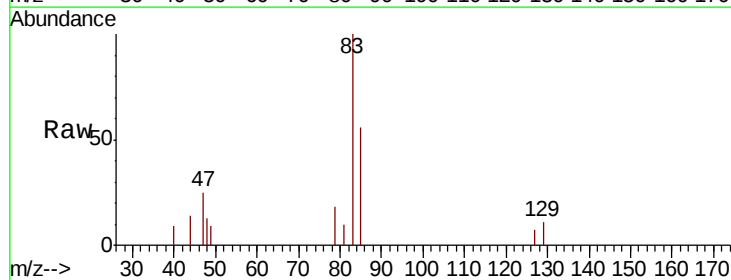
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

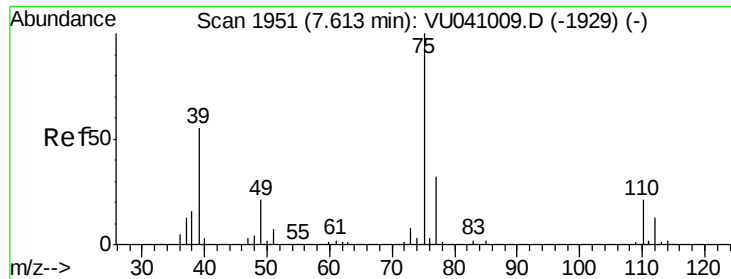
Tot Ion: 63 Resp: 2139  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.0 4.4#



#38  
 Bromodichloromethane  
 Concen: 0.227 ug/L  
 RT: 7.11 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion: 83 Resp: 2611  
 Ion Ratio Lower Upper  
 83 100  
 85 56.2 42.9 79.7  
 127 7.0 6.2 9.2



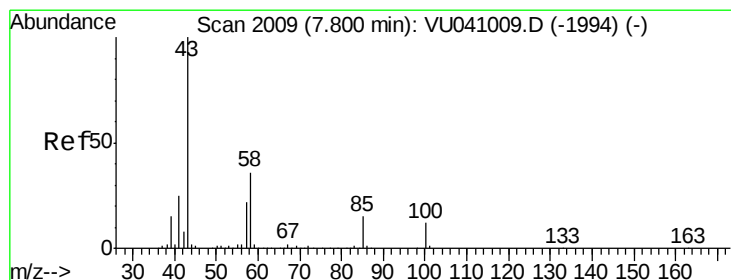
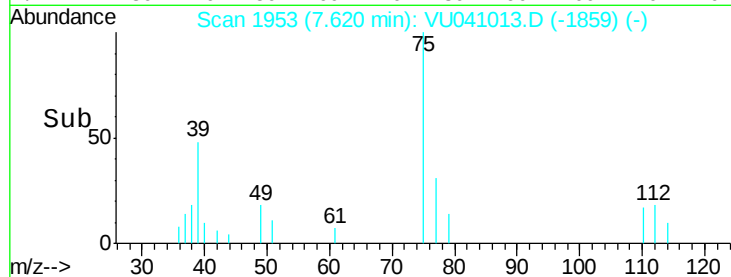
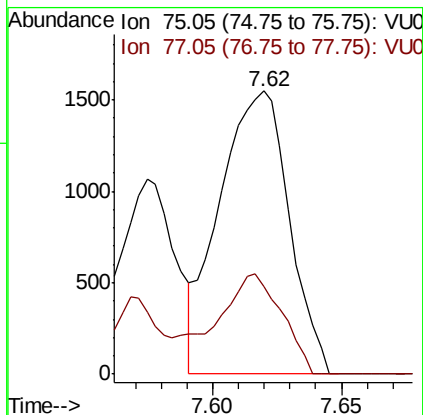
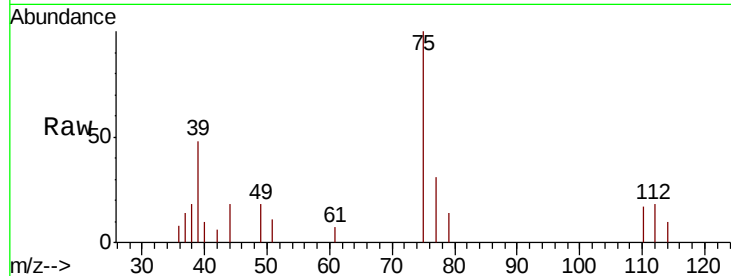


#39

cis-1,3-Dichloropropene  
 Concen: 0.238 ug/L  
 RT: 7.62 min Scan# 1953  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

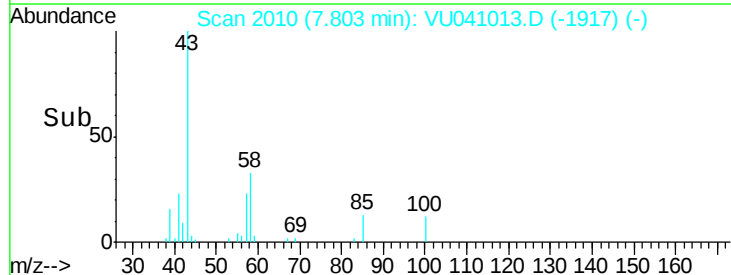
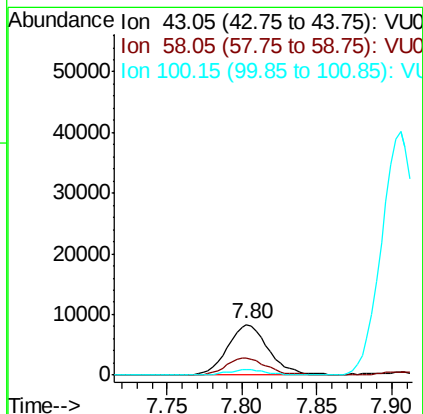
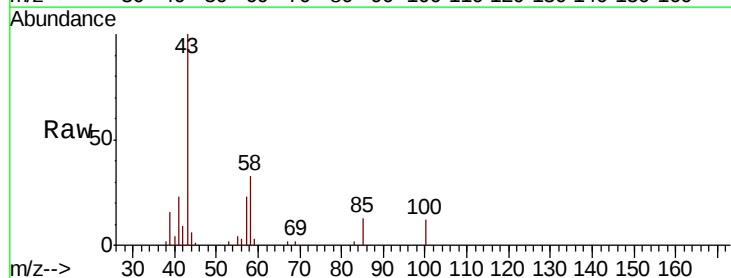
Tot Ion: 75 Resp: 2908  
 Ion Ratio Lower Upper  
 75 100  
 77 30.9 22.7 42.3

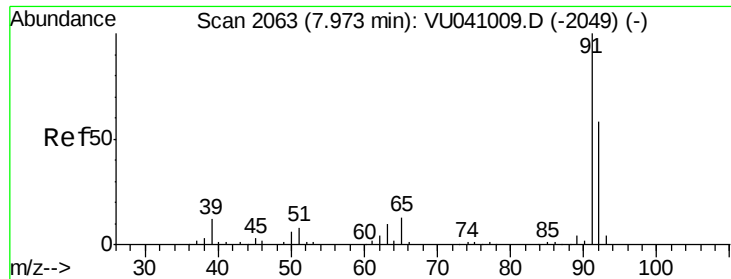


#40

4-Methyl-2-pentanone  
 Concen: 2.273 ug/L  
 RT: 7.80 min Scan# 2010  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion: 43 Resp: 15832  
 Ion Ratio Lower Upper  
 43 100  
 58 33.4 28.6 43.0  
 100 0.0 9.6 14.4#





#42

Toluene

Concen: 0.233 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

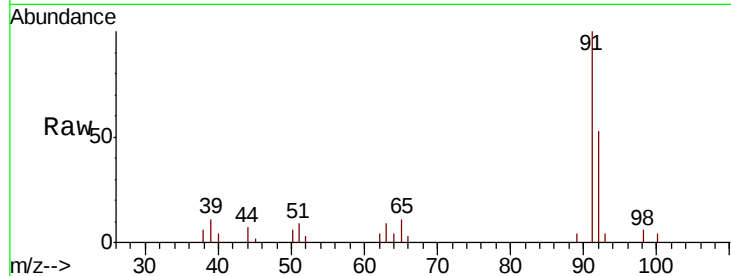
MDL-WATER-07

Tot Ion: 91 Resp: 7647

Ion Ratio Lower Upper

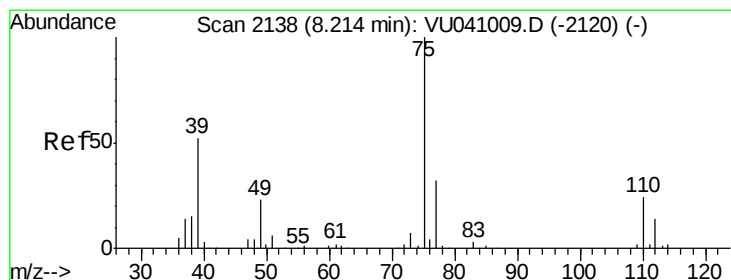
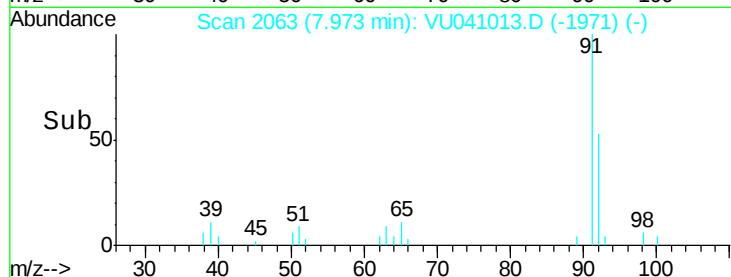
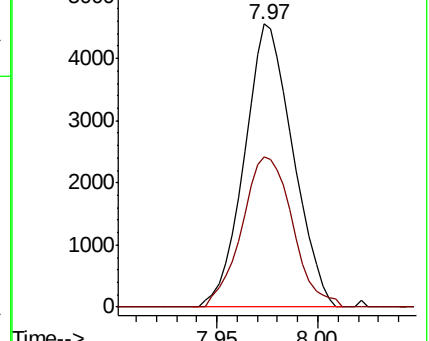
91 100

92 52.9 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.329 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU041013.D

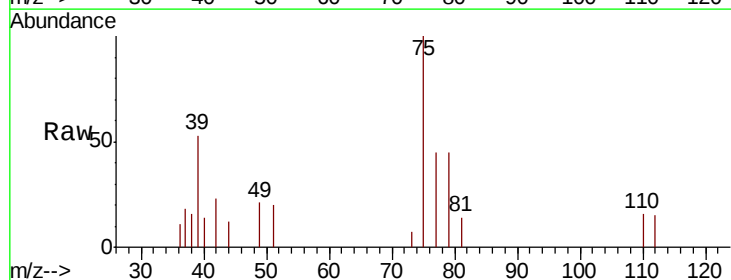
Acq: 29 Oct 2020 12:31

Tgt Ion: 75 Resp: 3745

Ion Ratio Lower Upper

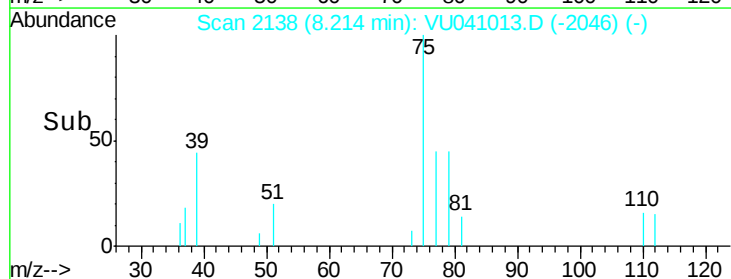
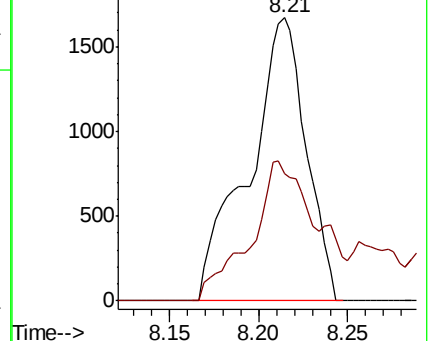
75 100

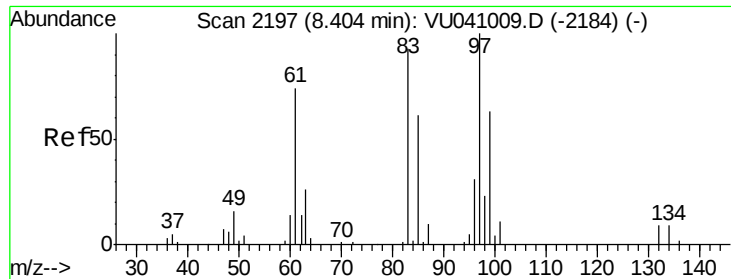
77 44.9 23.0 42.6#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

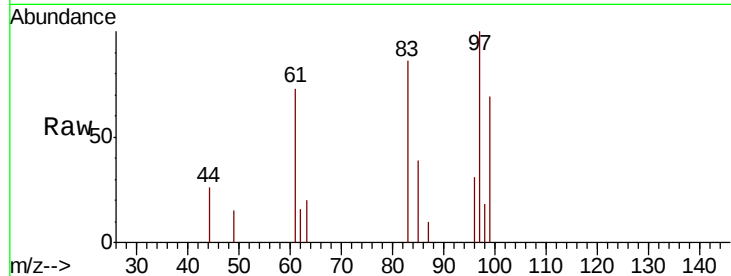




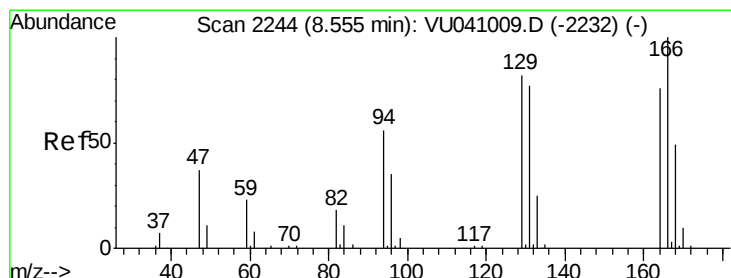
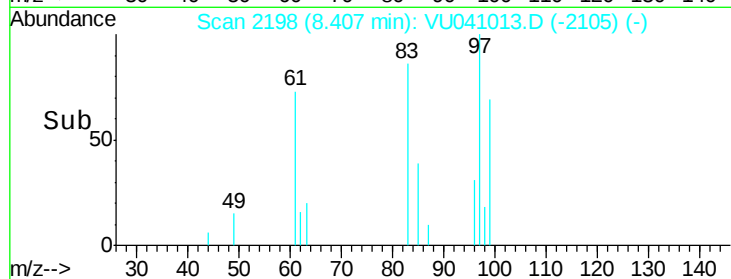
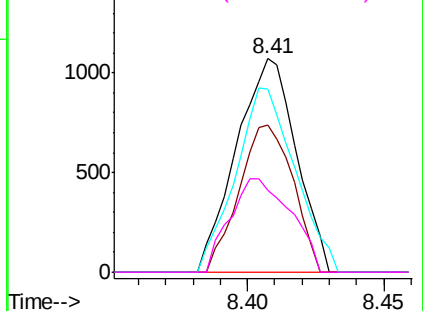
#45  
1,1,2-Trichloroethane  
Concen: 0.248 ug/L  
RT: 8.41 min Scan# 2198  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-07

Tot Ion: 97 Resp: 1632  
Ion Ratio Lower Upper  
97 100  
99 68.8 41.8 77.6  
83 85.7 62.2 115.6  
85 38.6 40.3 74.8#

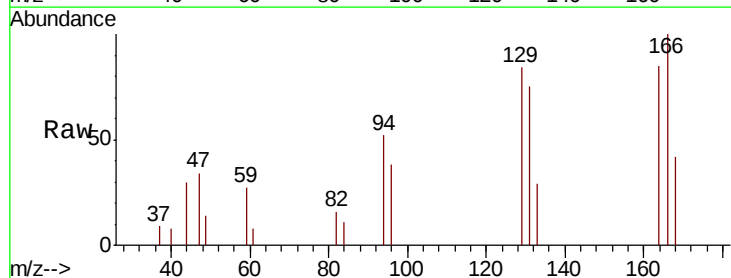


Abundance Ion 96.95 (96.65 to 97.65): VU0  
Ion 99.05 (98.75 to 99.75): VU0  
Ion 82.95 (82.65 to 83.65): VU0  
Ion 85.00 (84.70 to 85.70): VU0

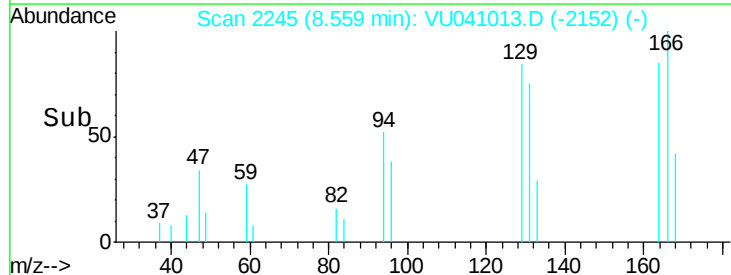
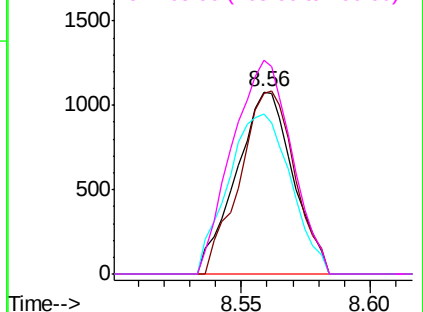


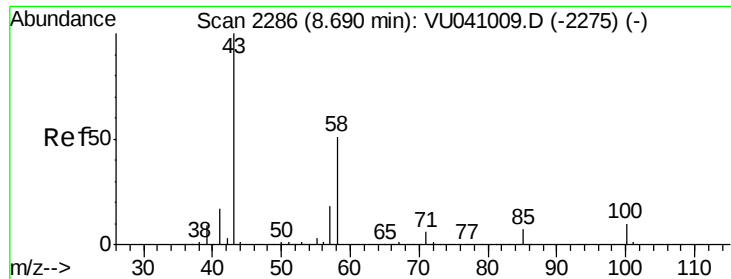
#47  
Tetrachloroethene  
Concen: 0.277 ug/L  
RT: 8.56 min Scan# 2245  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Tgt Ion: 164 Resp: 1663  
Ion Ratio Lower Upper  
164 100  
129 98.8 69.9 129.7  
131 87.6 65.0 120.6  
166 117.3 84.1 156.1



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 128.95 (128.65 to 129.65): V  
Ion 130.95 (130.65 to 131.65): V  
Ion 165.90 (165.60 to 166.60): V

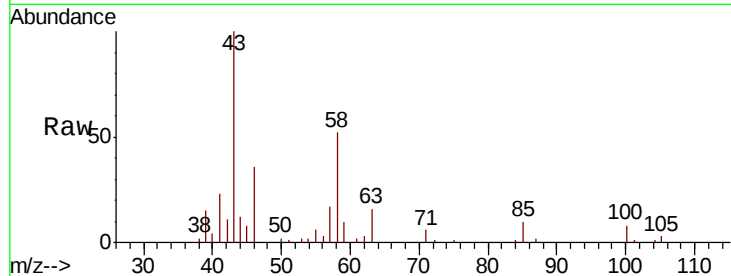




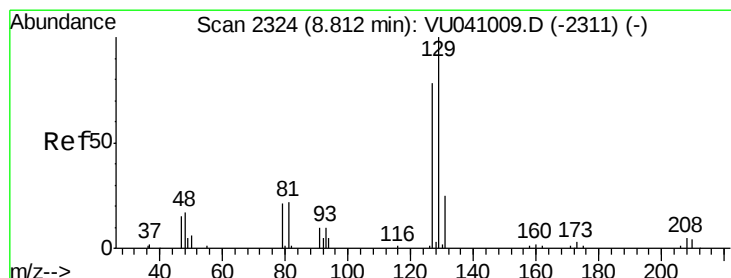
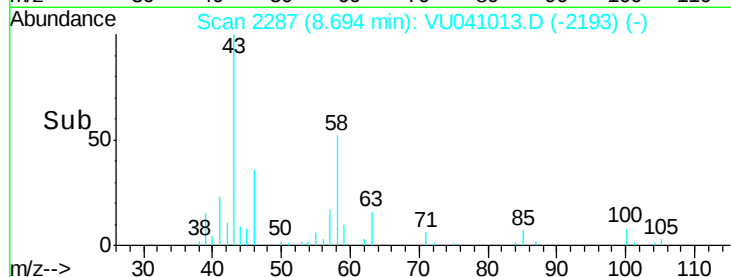
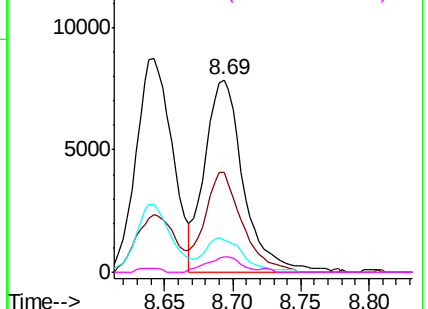
#48  
2-Hexanone  
Concen: 2.967 ug/L  
RT: 8.69 min Scan# 2287  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-07

Tot Ion: 43 Resp: 15505  
Ion Ratio Lower Upper  
43 100  
58 51.2 39.9 59.9  
57 18.1 14.1 21.1  
100 7.3 7.5 11.3#

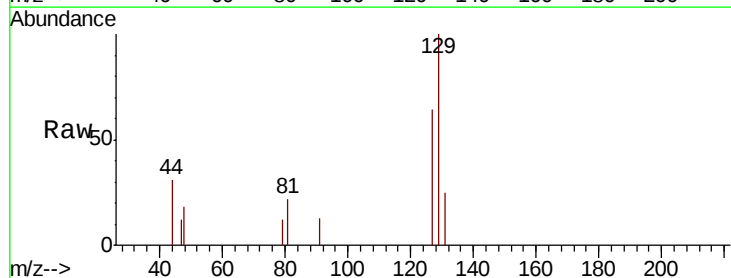


Abundance Ion 43.05 (42.75 to 43.75): VU041013.D (-2193) (-)  
Ion 58.05 (57.75 to 58.75): VU041013.D (-2193) (-)  
Ion 57.20 (56.90 to 57.90): VU041013.D (-2193) (-)  
Ion 100.15 (99.85 to 100.85): VU041013.D (-2193) (-)

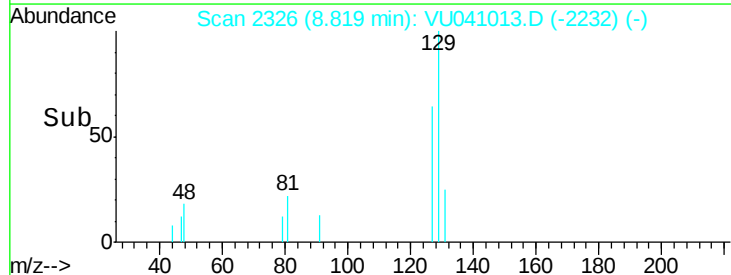
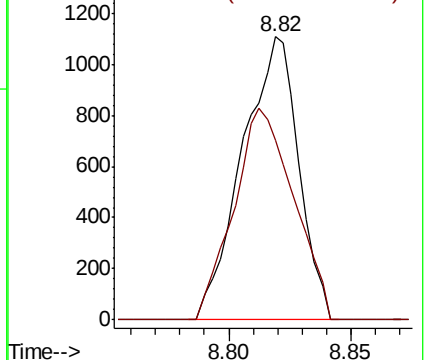


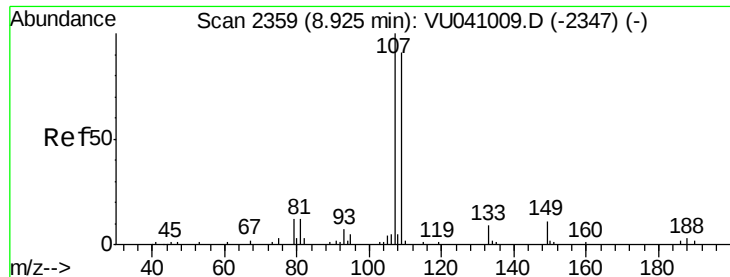
#49  
Dibromochloromethane  
Concen: 0.234 ug/L  
RT: 8.82 min Scan# 2326  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Tgt Ion: 129 Resp: 1776  
Ion Ratio Lower Upper  
129 100  
127 63.5 55.3 102.7



Abundance Ion 128.95 (128.65 to 129.65): VU041013.D (-2232) (-)  
Ion 126.90 (126.60 to 127.60): VU041013.D (-2232) (-)

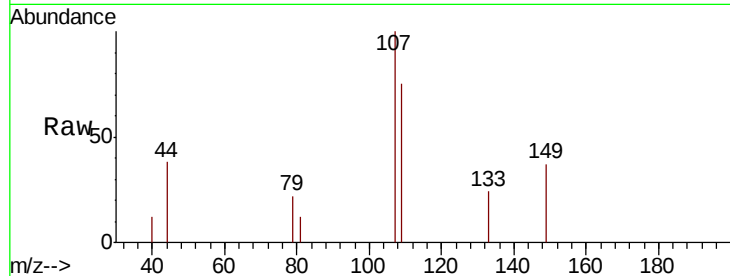




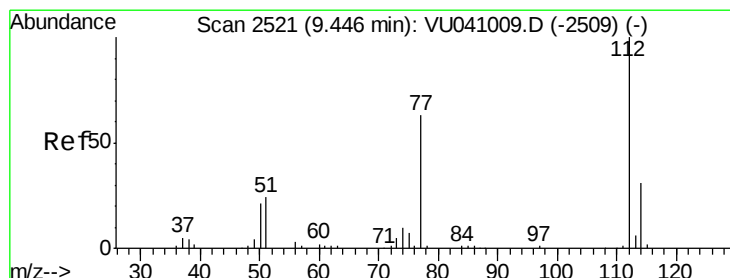
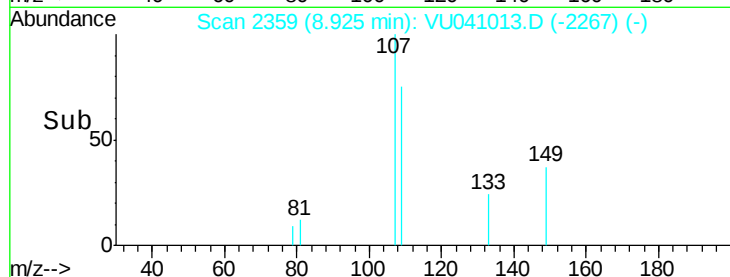
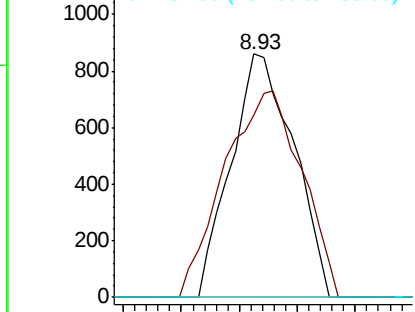
#50  
 1,2-Dibromoethane  
 Concen: 0.209 ug/L  
 RT: 8.93 min Scan# 2359  
 Delta R.T. -0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

Tot Ion:107 Resp: 1288  
 Ion Ratio Lower Upper  
 107 100  
 109 74.8 67.1 124.5  
 188 0.0 2.3 3.5#

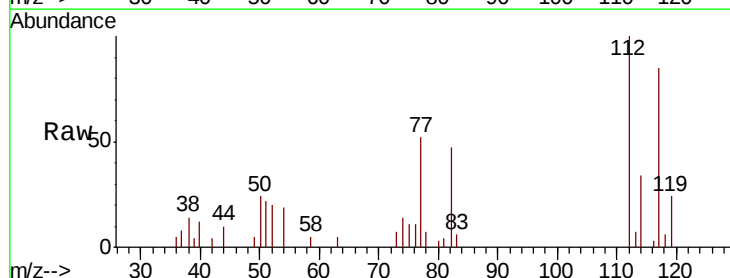


Abundance Ion 106.95 (106.65 to 107.65): V  
 Ion 109.00 (108.70 to 109.70): V  
 Ion 187.90 (187.60 to 188.60): V

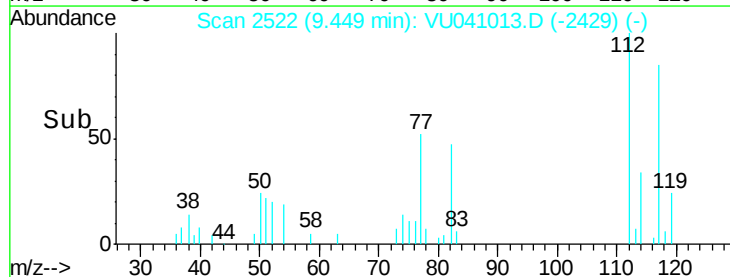
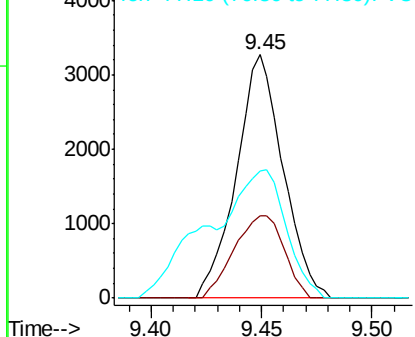


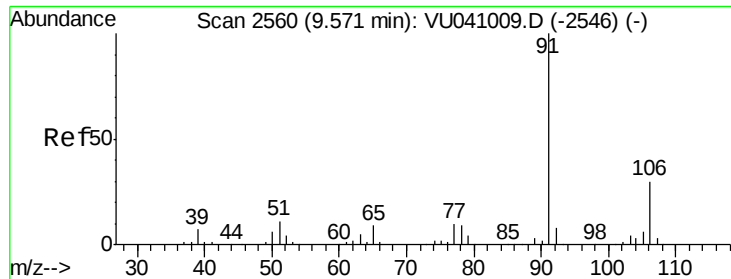
#51  
 Chlorobenzene  
 Concen: 0.228 ug/L  
 RT: 9.45 min Scan# 2522  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion:112 Resp: 4809  
 Ion Ratio Lower Upper  
 112 100  
 114 34.0 21.9 40.7  
 77 52.4 51.4 77.2



Abundance Ion 112.10 (111.80 to 112.80): V  
 Ion 114.05 (113.75 to 114.75): V  
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.225 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

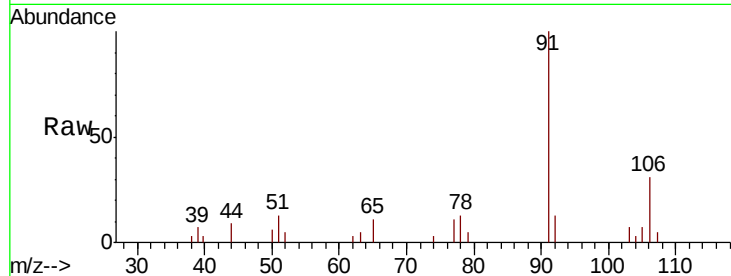
MDL-WATER-07

Tot Ion: 91 Resp: 7669

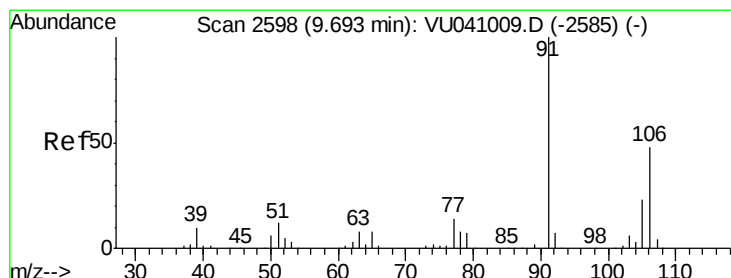
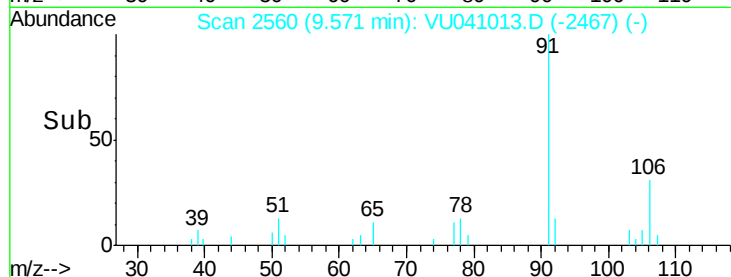
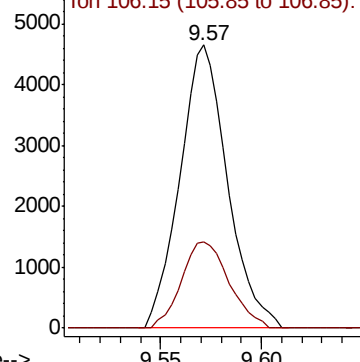
Ion Ratio Lower Upper

91 100

106 30.7 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU041013.D (-2467) (-)



#53

m,p-Xylene

Concen: 0.203 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041013.D

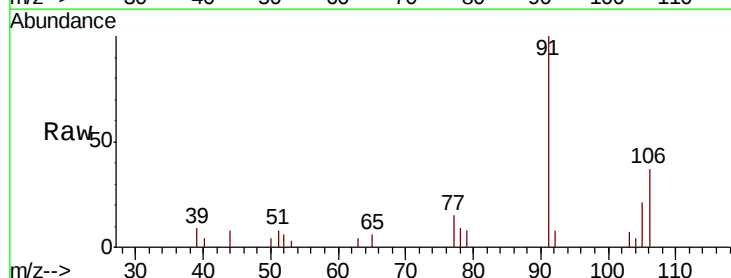
Acq: 29 Oct 2020 12:31

Tgt Ion: 106 Resp: 2503

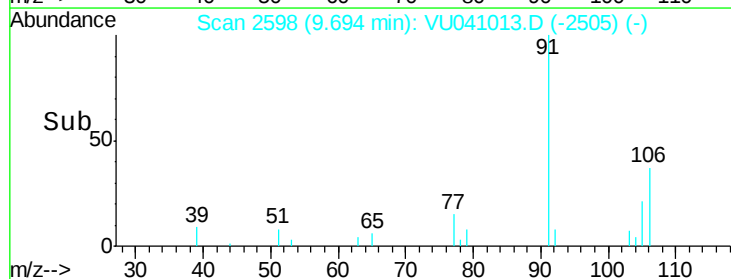
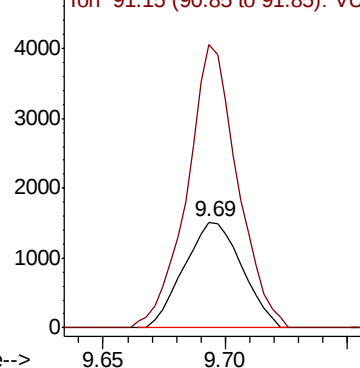
Ion Ratio Lower Upper

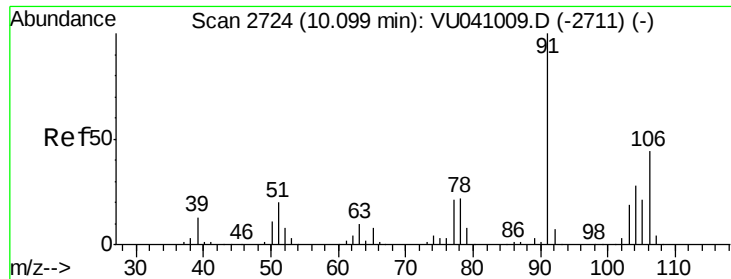
106 100

91 268.2 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU041013.D (-2505) (-)

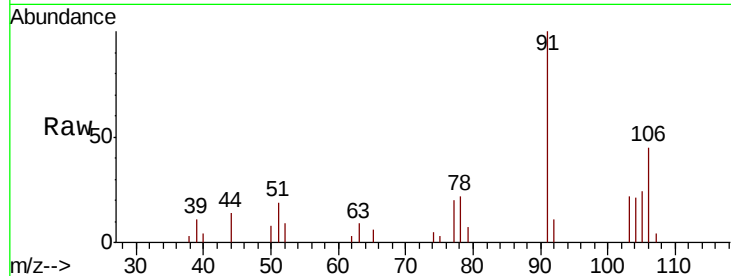




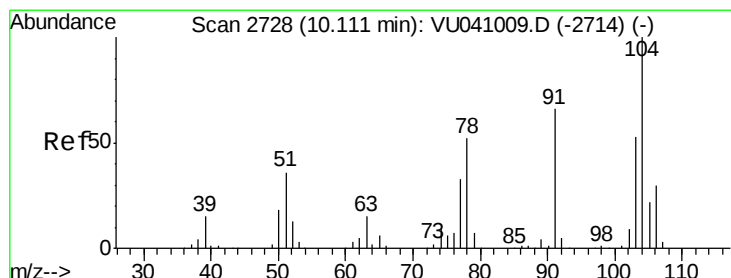
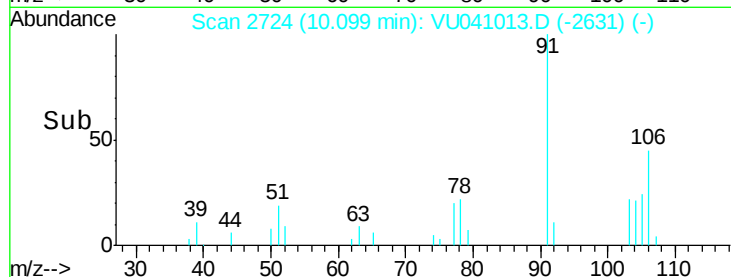
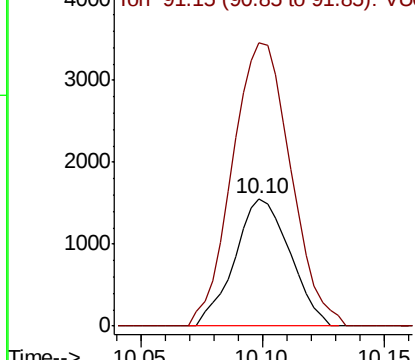
#54  
o-Xylene  
Concen: 0.207 ug/L  
RT: 10.10 min Scan# 2724  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-07

Tot Ion:106 Resp: 2439  
Ion Ratio Lower Upper  
106 100  
91 222.2 158.3 294.1

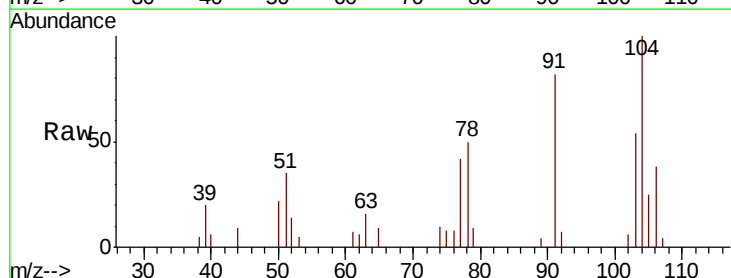


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

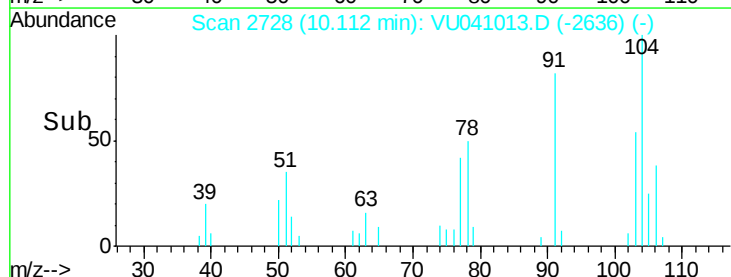
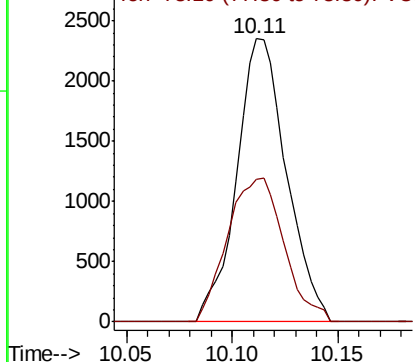


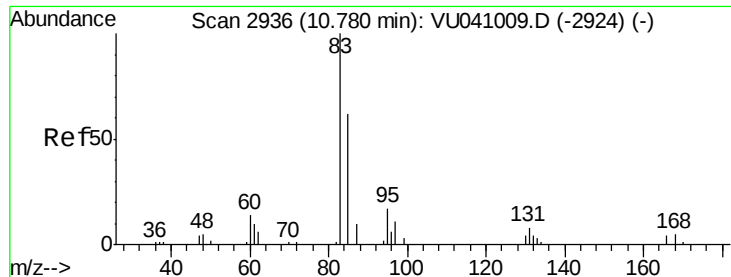
#55  
Styrene  
Concen: 0.188 ug/L  
RT: 10.11 min Scan# 2728  
Delta R.T. -0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Tgt Ion:104 Resp: 3854  
Ion Ratio Lower Upper  
104 100  
78 50.4 35.6 66.2



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0

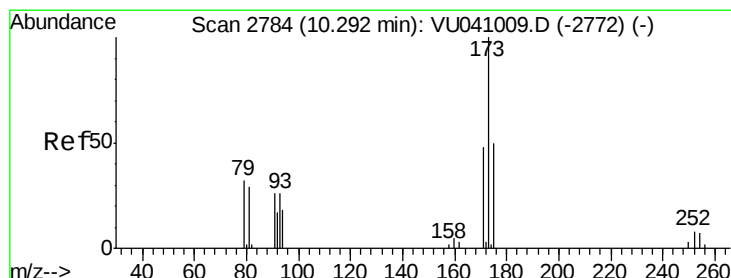
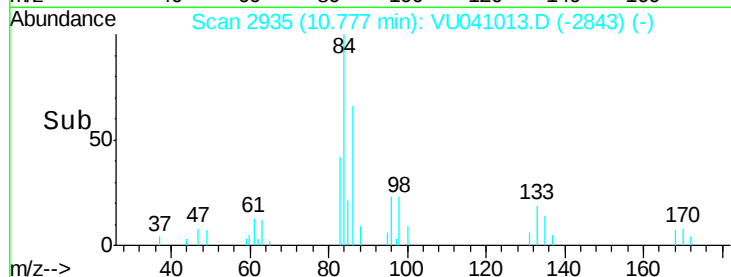
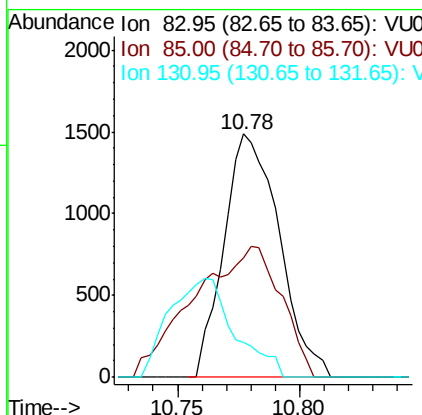
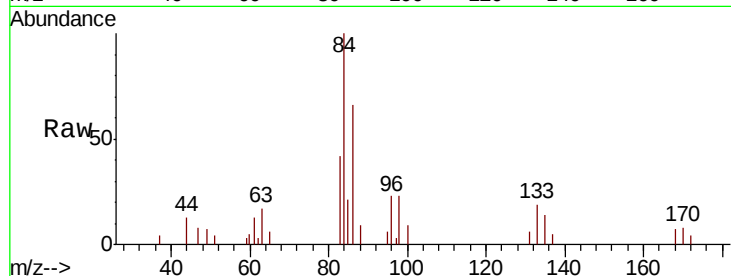




#57  
1,1,2,2-Tetrachloroethane  
Concen: 0.276 ug/L  
RT: 10.78 min Scan# 2935  
Delta R.T. -0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

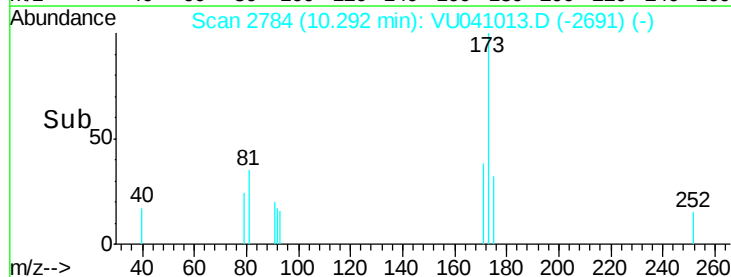
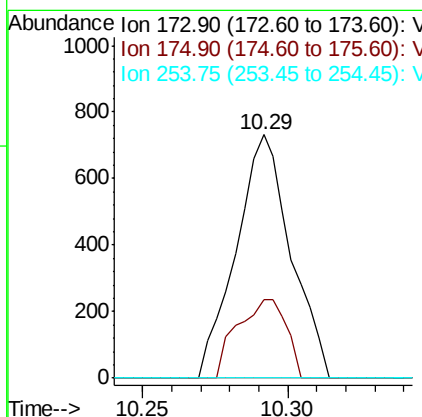
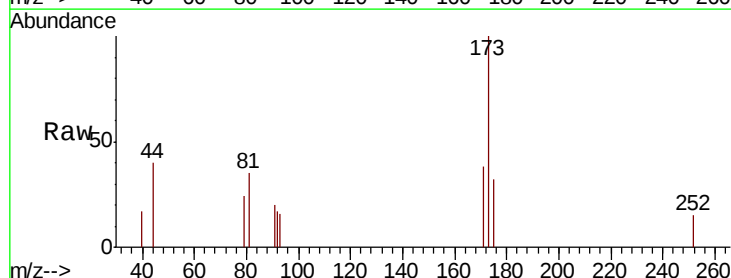
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-07

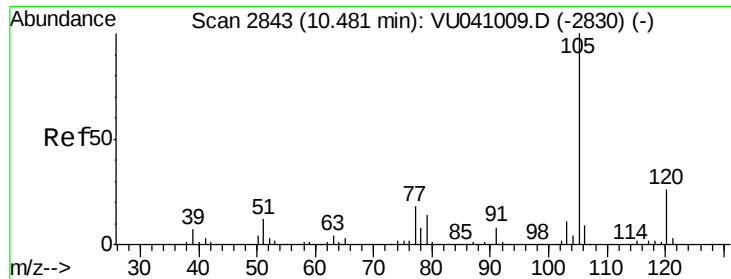
Tot Ion: 83 Resp: 2342  
Ion Ratio Lower Upper  
83 100  
85 49.3 42.1 78.3  
131 14.4 6.7 10.1#



#59  
Bromoform  
Concen: 0.256 ug/L  
RT: 10.29 min Scan# 2784  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Tgt Ion: 173 Resp: 959  
Ion Ratio Lower Upper  
173 100  
175 28.8 36.7 55.1#  
254 0.0 6.5 9.7#





#60

Isopropylbenzene

Concen: 0.219 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-07

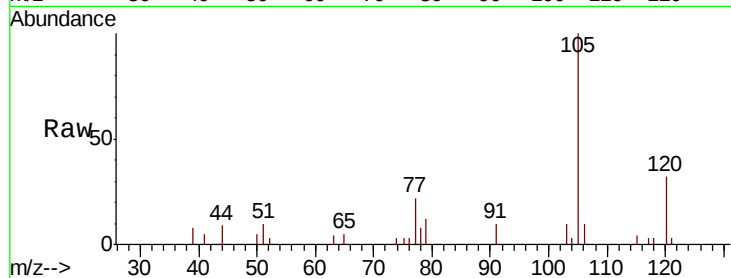
Tot Ion: 105 Resp: 6117

Ion Ratio Lower Upper

105 100

120 29.4 20.2 30.4

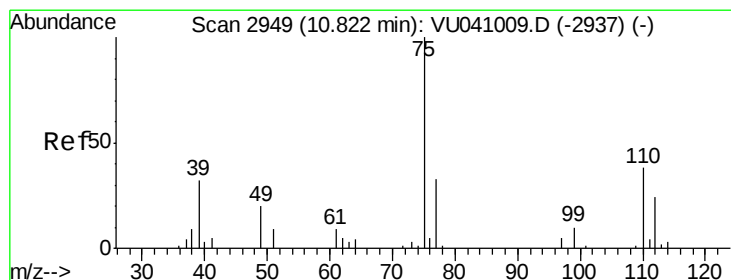
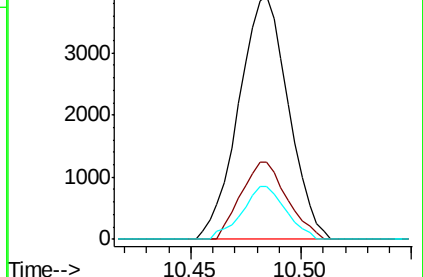
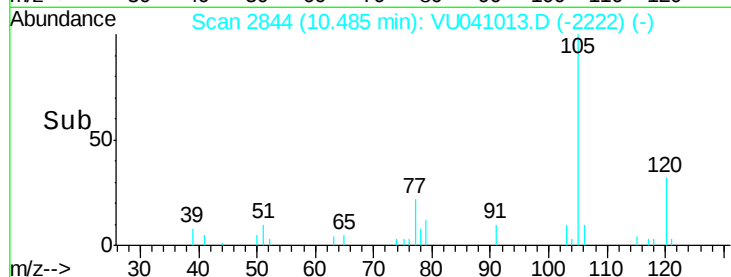
77 19.3 14.4 21.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 0.278 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

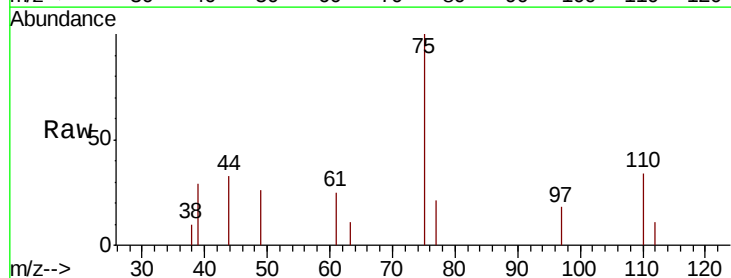
Tgt Ion: 75 Resp: 1611

Ion Ratio Lower Upper

75 100

110 34.5 27.5 41.3

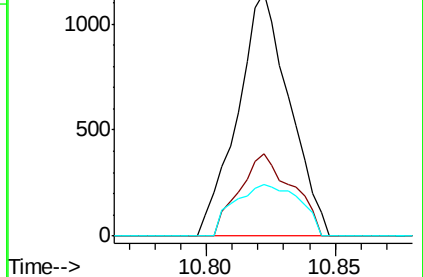
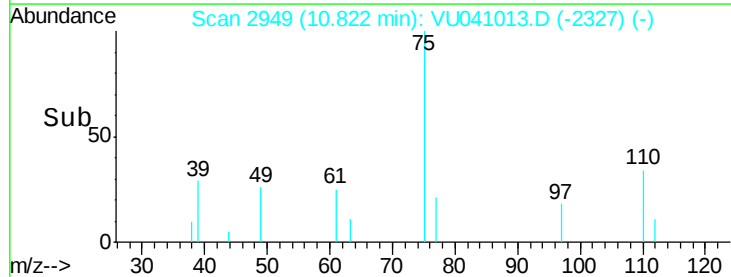
77 26.6 24.9 37.3

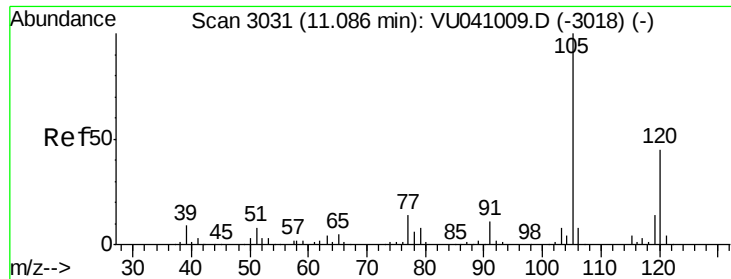


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): V





#62

1,3,5-Trimethylbenzene

Concen: 0.226 ug/L

RT: 11.08 min Scan# 3030

Delta R.T. -0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

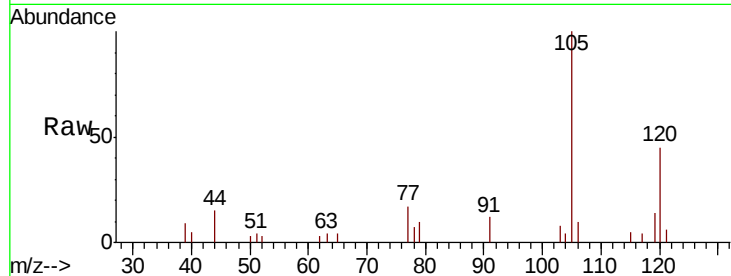
MDL-WATER-07

Tot Ion:105 Resp: 5069

Ion Ratio Lower Upper

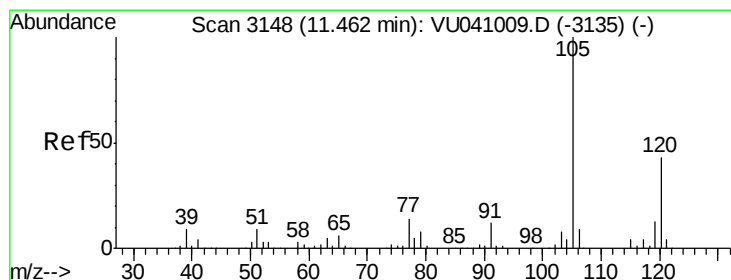
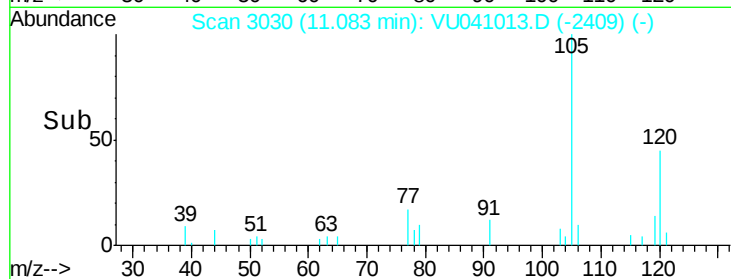
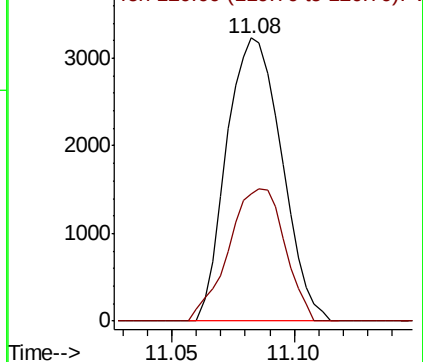
105 100

120 47.5 38.0 57.0



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: 0.198 ug/L

RT: 11.46 min Scan# 3148

Delta R.T. -0.00 min

Lab File: VU041013.D

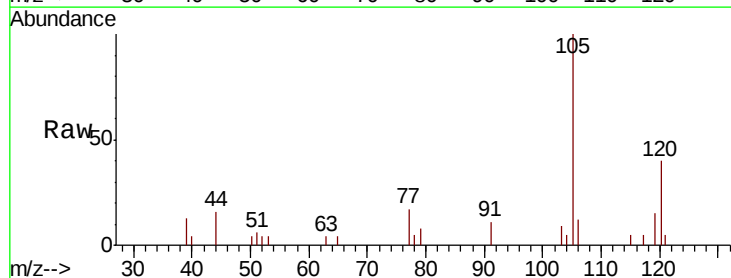
Acq: 29 Oct 2020 12:31

Tgt Ion:105 Resp: 4491

Ion Ratio Lower Upper

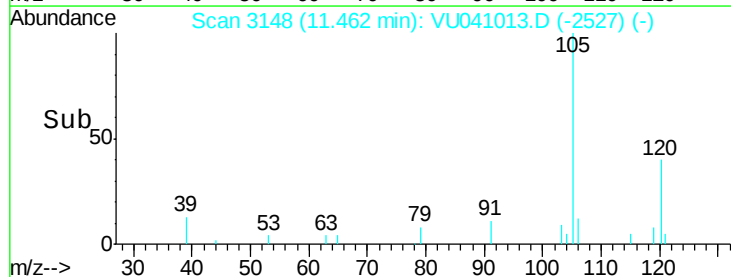
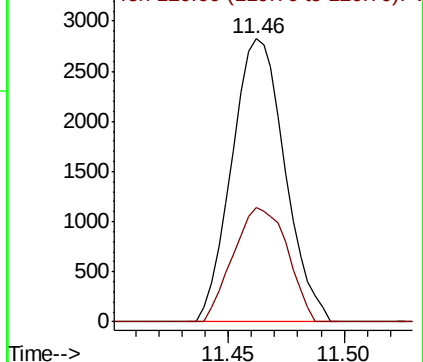
105 100

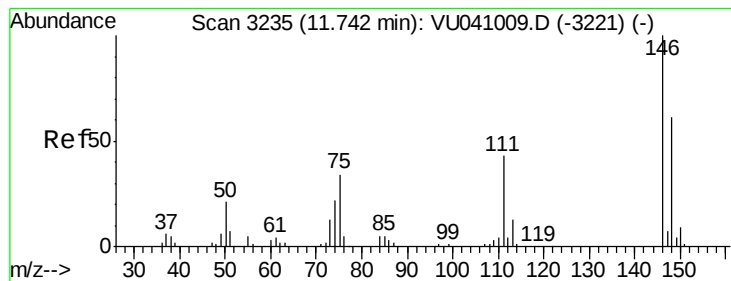
120 41.1 34.6 52.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 0.257 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-07

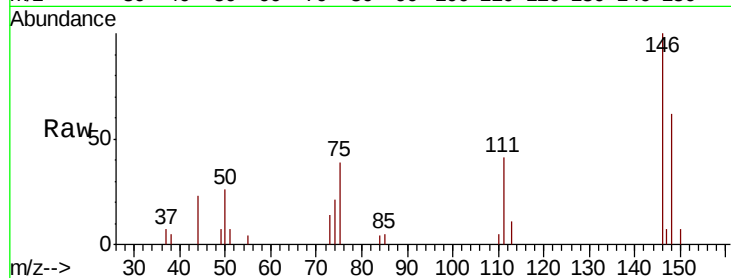
Tot Ion:146 Resp: 3576

Ion Ratio Lower Upper

146 100

111 40.9 30.2 56.0

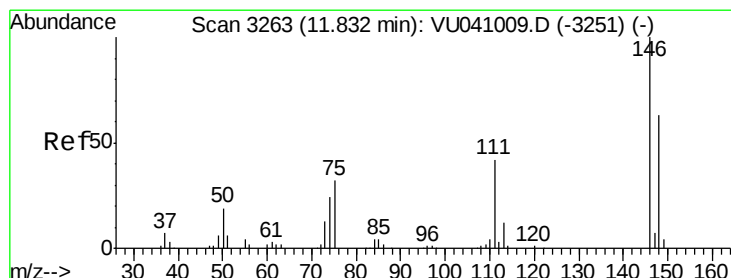
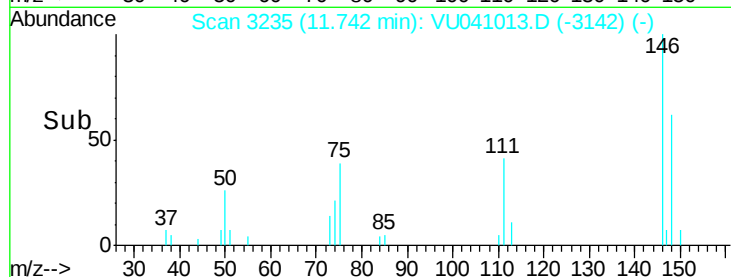
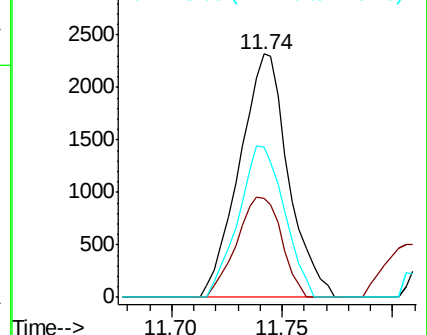
148 61.9 42.9 79.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 0.267 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU041013.D

Acq: 29 Oct 2020 12:31

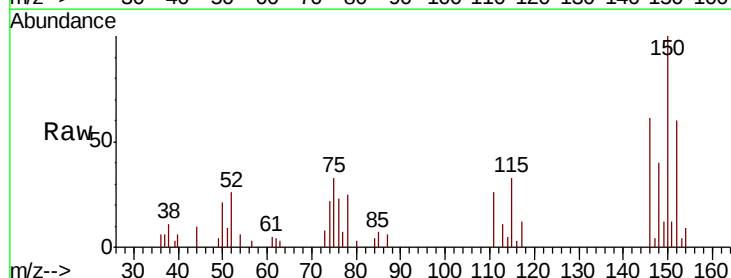
Tgt Ion:146 Resp: 3801

Ion Ratio Lower Upper

146 100

111 42.9 28.3 52.7

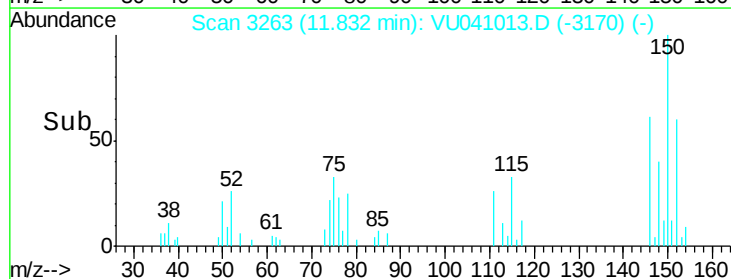
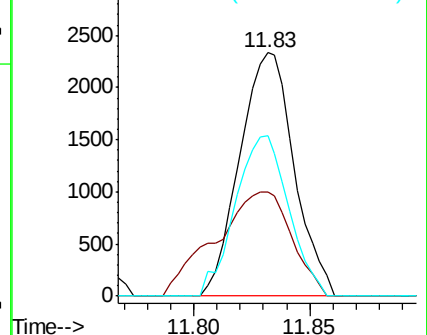
148 65.8 44.1 81.9

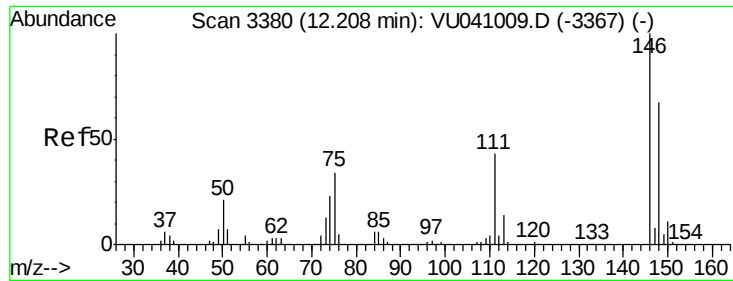


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

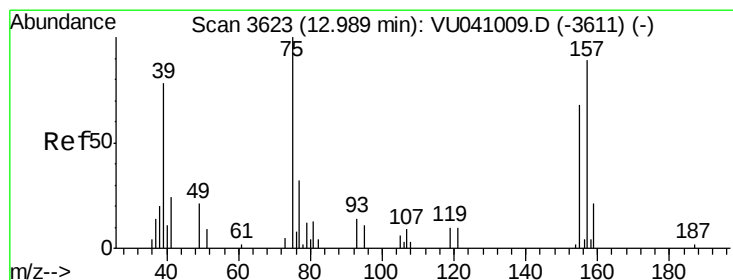
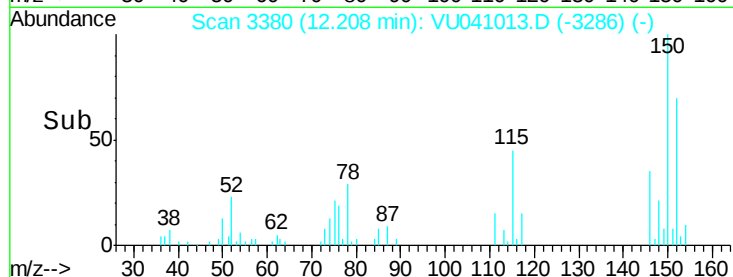
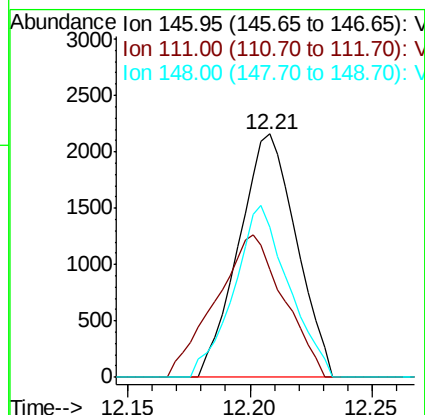
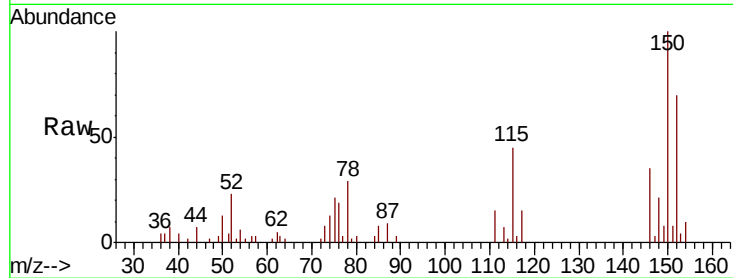




#67  
 1,2-Dichlorobenzene  
 Concen: 0.261 ug/L  
 RT: 12.21 min Scan# 3380  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

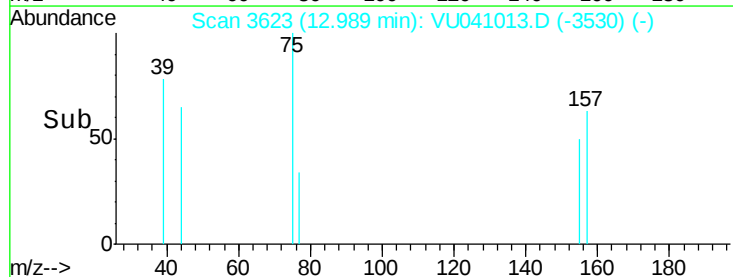
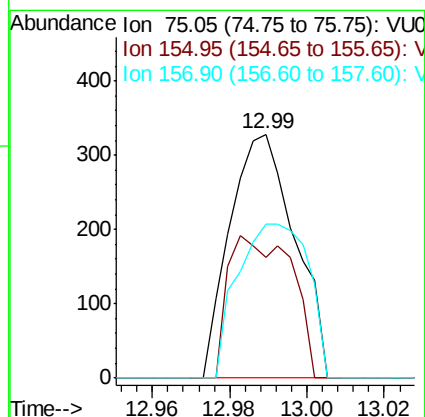
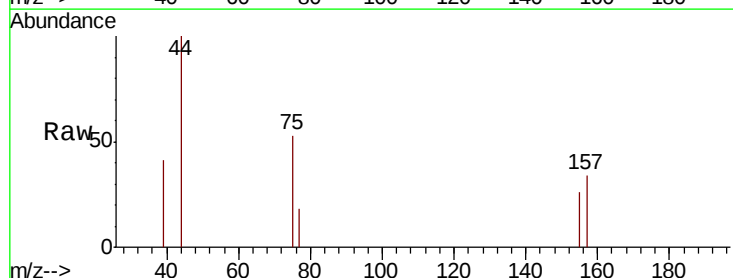
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

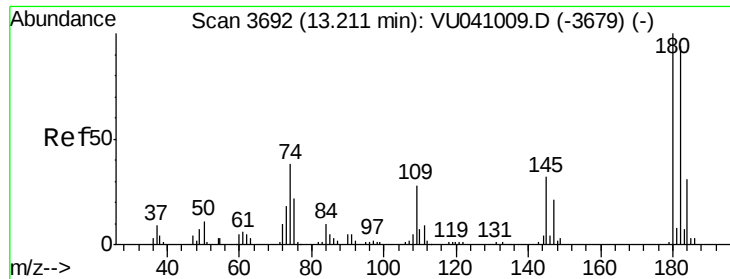
Tot Ion:146 Resp: 3515  
 Ion Ratio Lower Upper  
 146 100  
 111 44.3 34.7 52.1  
 148 61.7 50.7 76.1



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 0.287 ug/L  
 RT: 12.99 min Scan# 3623  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion: 75 Resp: 383  
 Ion Ratio Lower Upper  
 75 100  
 155 49.7 60.2 90.2#  
 157 63.4 74.4 111.6#

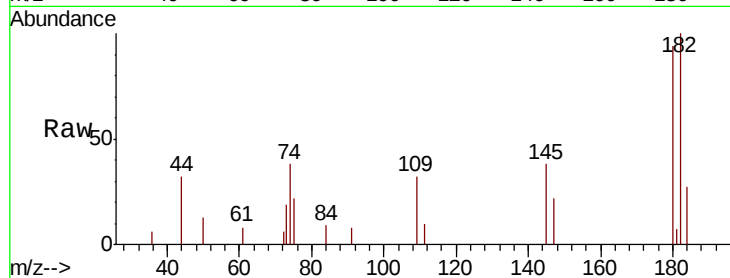




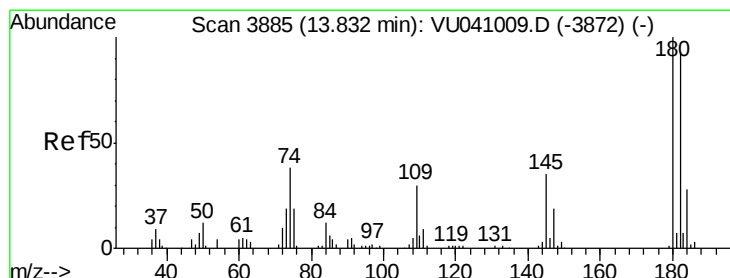
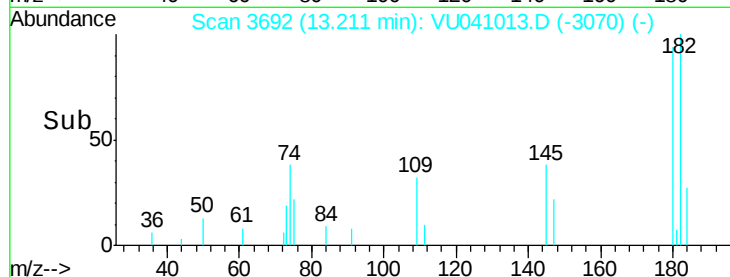
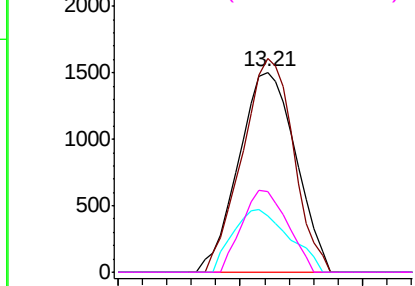
#69  
 1,3,5-Trichlorobenzene  
 Concen: 0.255 ug/L  
 RT: 13.21 min Scan# 3692  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-07

Tot Ion:180 Resp: 2434  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 76.9 115.3  
 184 31.1 23.8 35.8  
 145 32.7 25.2 37.8

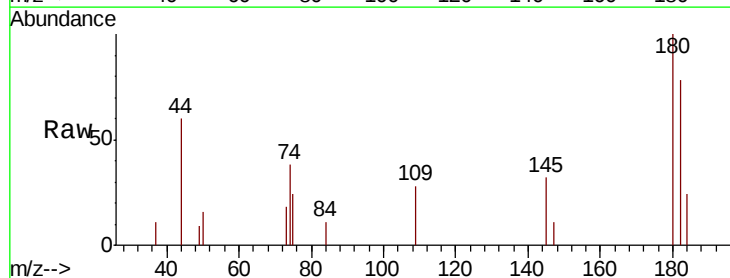


Abundance Ion 180.00 (179.70 to 180.70): V  
 2500  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

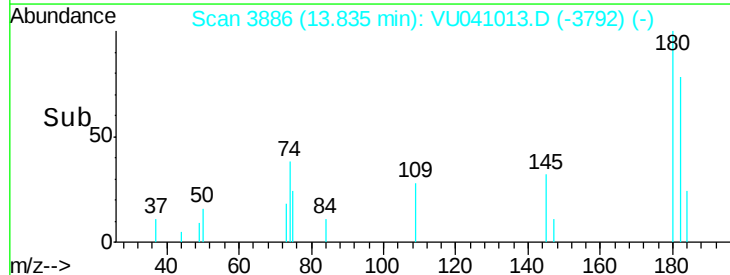
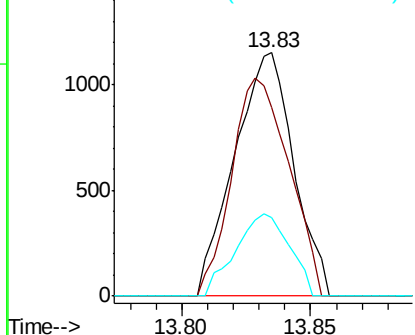


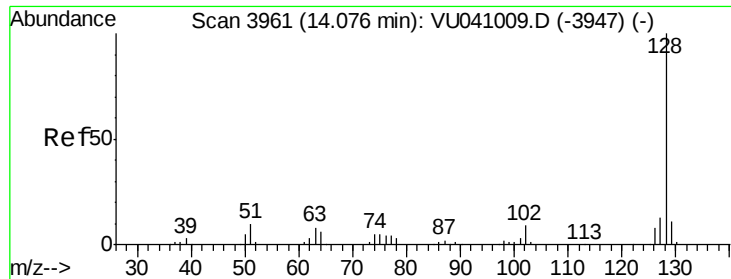
#70  
 1,2,4-trichlorobenzene  
 Concen: 0.229 ug/L  
 RT: 13.83 min Scan# 3886  
 Delta R.T. 0.00 min  
 Lab File: VU041013.D  
 Acq: 29 Oct 2020 12:31

Tgt Ion:180 Resp: 1844  
 Ion Ratio Lower Upper  
 180 100  
 182 86.8 74.5 111.7  
 145 30.8 26.6 39.8



Abundance Ion 179.90 (179.60 to 180.60): V  
 1500  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

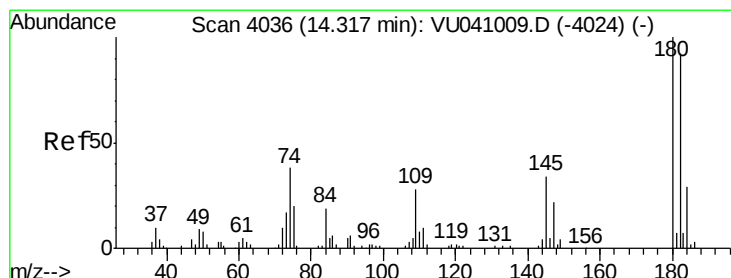
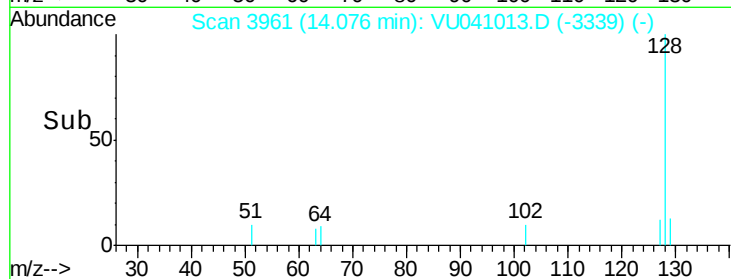
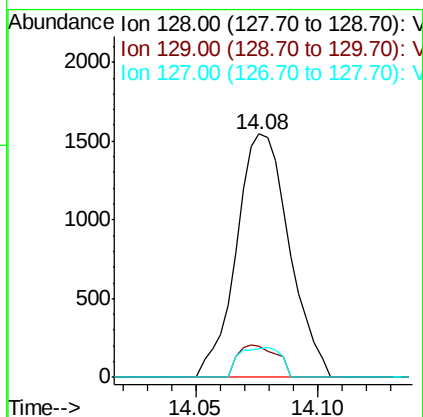
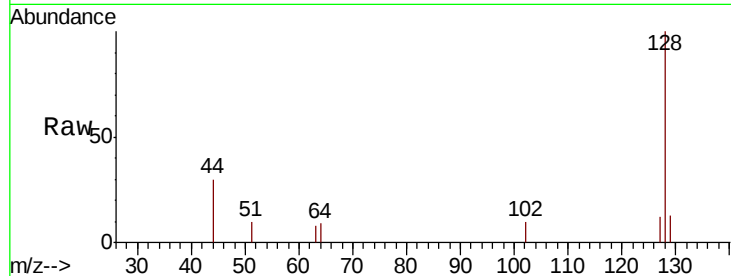




#71  
Naphthalene  
Concen: 0.165 ug/L  
RT: 14.08 min Scan# 3961  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-07

Tot Ion:128 Resp: 2320  
Ion Ratio Lower Upper  
128 100  
129 9.8 8.8 13.2  
127 9.5 11.2 16.8#



#72  
1,2,3-Trichlorobenzene  
Concen: 0.234 ug/L  
RT: 14.32 min Scan# 4037  
Delta R.T. 0.00 min  
Lab File: VU041013.D  
Acq: 29 Oct 2020 12:31

Tgt Ion:180 Resp: 1762  
Ion Ratio Lower Upper  
180 100  
182 89.6 76.7 115.1  
145 20.7 27.4 41.0#

