

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU022823\  
 Data File : VU053168.D  
 Acq On : 28 Feb 2023 12:47  
 Operator : JC/MD  
 Sample : 01627-09 0.25PPB  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT1-2023

Quant Time: Mar 01 03:54:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U022723DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Mar 01 03:54:45 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|------------------------------|--------|------|----------|-------|---------|----------|
| -----                        |        |      |          |       |         |          |
| Internal Standards           |        |      |          |       |         |          |
| 1) Fluorobenzene             | 6.112  | 96   | 24557    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene     | 10.633 | 95   | 9847     | 0.950 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 95.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.193 | 152  | 7637     | 0.929 | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =     | 93.000% |          |
| Target Compounds             |        |      |          |       |         |          |
|                              |        |      |          |       | Qvalue  |          |
| 2) Dichlorodifluoromethane   | 1.386  | 85   | 1109     | 0.178 | ug/l    | 86       |
| 3) Chloromethane             | 1.521  | 50   | 1276     | 0.199 | ug/l #  | 76       |
| 4) Vinyl Chloride            | 1.605  | 62   | 1287     | 0.188 | ug/l #  | 81       |
| 5) Bromomethane              | 1.862  | 94   | 873      | 0.224 | ug/l    | 99       |
| 6) Chloroethane              | 1.936  | 64   | 877      | 0.211 | ug/l    | 94       |
| 7) Trichlorofluoromethane    | 2.141  | 101  | 1702     | 0.173 | ug/l    | 98       |
| 8) 1,1,2-Trichloro-1,2,2-... | 2.582  | 101  | 1135     | 0.184 | ug/l #  | 92       |
| 9) 1,1-Dichloroethene        | 2.582  | 96   | 937      | 0.175 | ug/l    | 91       |
| 10) Iodomethane              | 2.727  | 142  | 887      | 0.161 | ug/l #  | 86       |
| 11) Allyl Chloride           | 2.926  | 41   | 1906     | 0.228 | ug/l    | 85       |
| 12) Acrylonitrile            | 3.315  | 53   | 371      | 0.271 | ug/l #  | 76       |
| 13) Acetone                  | 2.643  | 43   | 2046     | 1.046 | ug/l #  | 69       |
| 14) Carbon Disulfide         | 2.794  | 76   | 2423     | 0.198 | ug/l #  | 79       |
| 15) Methylene Chloride       | 3.048  | 84   | 2845     | 0.372 | ug/l    | 97       |
| 16) trans-1,2-Dichloroethene | 3.357  | 96   | 1049     | 0.179 | ug/l #  | 81       |
| 17) 1,1-Dichloroethane       | 3.865  | 63   | 2359     | 0.183 | ug/l #  | 87       |
| 18) 2-Butanone               | 4.685  | 43   | 282      | 0.120 | ug/l    | 76       |
| 19) Cyclohexane              | 5.386  | 56   | 2050     | 0.200 | ug/l    | 98       |
| 20) Methylcyclohexane        | 6.759  | 83   | 1754     | 0.178 | ug/l #  | 84       |
| 21) 2,2-Dichloropropane      | 4.662  | 77   | 2671     | 0.237 | ug/l #  | 65       |
| 22) cis-1,2-Dichloroethene   | 4.672  | 96   | 1445     | 0.199 | ug/l    | 95       |
| 23) Diethyl Ether            | 2.383  | 59   | 738      | 0.169 | ug/l #  | 51       |
| 24) tert-Butyl Alcohol       | 3.190  | 59   | 242      | 0.471 | ug/l #  | 85       |
| 25) Methyl tert-Butyl Ether  | 3.366  | 73   | 2816     | 0.181 | ug/l    | 92       |
| 26) Bromochloromethane       | 4.965  | 128  | 466      | 0.166 | ug/l    | 91       |
| 27) Chloroform               | 5.090  | 83   | 2552     | 0.193 | ug/l    | 95       |
| 28) 1,1,1-Trichloroethane    | 5.315  | 97   | 2145     | 0.193 | ug/l #  | 78       |
| 29) 1,1-Dichloropropene      | 5.524  | 75   | 1750     | 0.210 | ug/l #  | 79       |
| 30) Carbon Tetrachloride     | 5.521  | 117  | 1281     | 0.167 | ug/l #  | 90       |
| 31) Isopropyl Ether          | 3.990  | 45   | 4066     | 0.198 | ug/l    | 69       |
| 32) Ethyl-t-butyl ether      | 4.508  | 59   | 3524     | 0.181 | ug/l    | 100      |
| 33) Tert-Amyl methyl ether   | 5.945  | 73   | 2748     | 0.178 | ug/l #  | 78       |
| 34) Propionitrile            | 4.781  | 54   | 204      | 0.373 | ug/l #  | 1        |
| 35) Benzene                  | 5.772  | 78   | 4603     | 0.187 | ug/l #  | 85       |
| 36) 1,2-Dichloroethane       | 5.791  | 62   | 1372     | 0.187 | ug/l #  | 76       |
| 37) Trichloroethene          | 6.534  | 130  | 1089     | 0.193 | ug/l    | 80       |
| 38) 1,2-Dichloropropane      | 6.794  | 63   | 1289     | 0.181 | ug/l    | 93       |
| 39) Methacrylonitrile        | 4.977  | 41   | 229      | 0.098 | ug/l #  | 80       |
| 40) Methyl acrylate          | 4.813  | 55   | 261      | 0.072 | ug/l #  | 45       |
| 41) Tetrahydrofuran          | 5.074  | 42   | 711      | 0.622 | ug/l #  | 54       |
| 42) 1-Chlorobutane           | 5.456  | 56   | 2453     | 0.211 | ug/l    | 86       |
| 43) Dibromomethane           | 6.923  | 93   | 456      | 0.145 | ug/l    | 86       |
| 44) Bromodichloromethane     | 7.106  | 83   | 1686     | 0.195 | ug/l #  | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU022823\  
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 Operator : JC/MD  
 Sample : 01627-09 0.25PPB  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT1-2023

Quant Time: Mar 01 03:54:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U022723DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Mar 01 03:54:45 2023  
 Response via : Initial Calibration

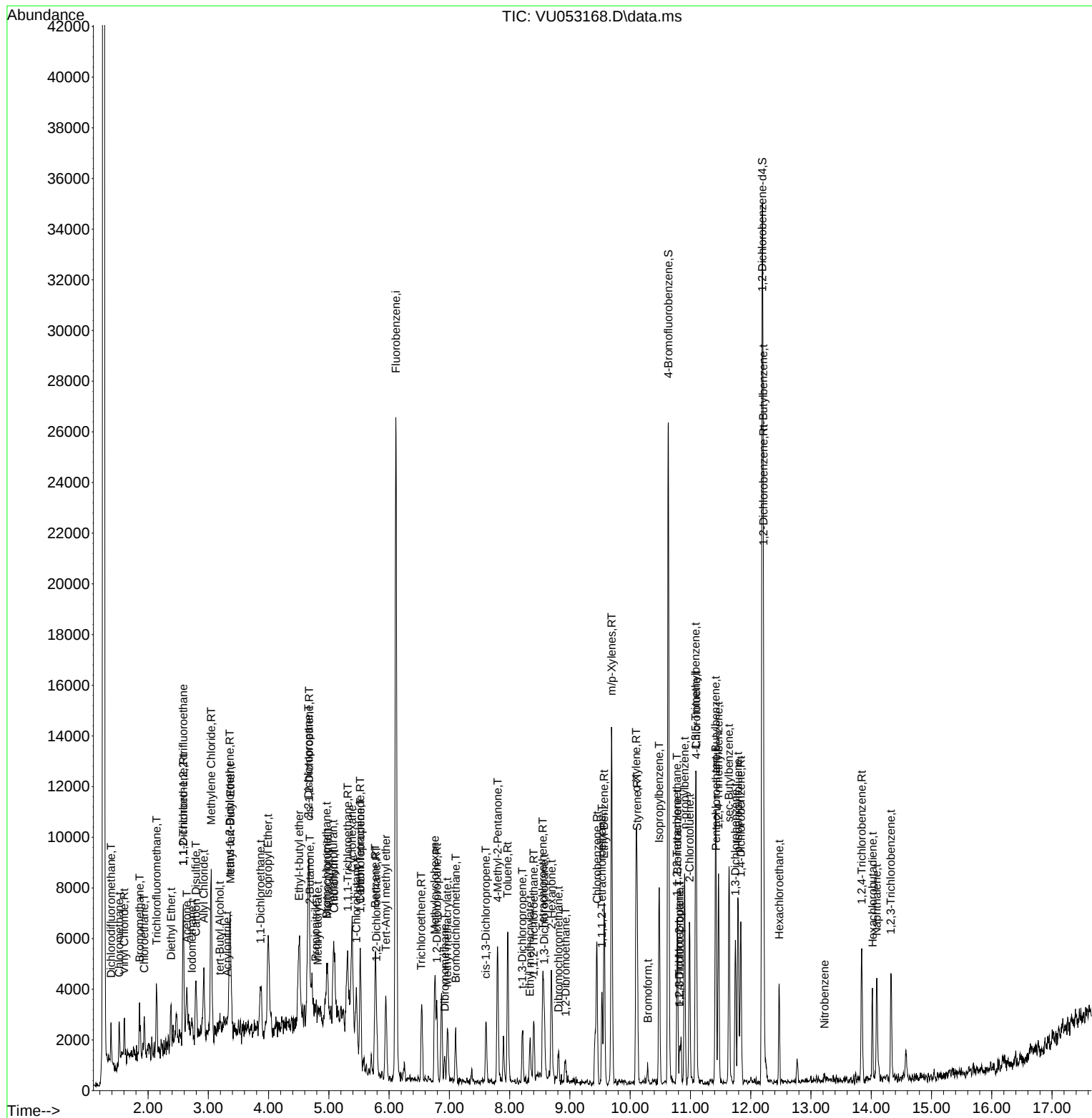
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 45) 4-Methyl-2-Pentanone      | 7.800  | 43   | 3863     | 1.003 | ug/l   | 96       |
| 46) t-1,4-Dichloro-2-butene   | 10.816 | 75   | 354      | 0.182 | ug/l # | 81       |
| 47) Methyl methacrylate       | 6.964  | 69   | 1234     | 0.380 | ug/l # | 96       |
| 48) Ethyl methacrylate        | 8.337  | 69   | 1138     | 0.171 | ug/l   | 79       |
| 49) Toluene                   | 7.964  | 92   | 2766     | 0.183 | ug/l   | 91       |
| 50) t-1,3-Dichloropropene     | 8.209  | 75   | 1500     | 0.179 | ug/l   | 99       |
| 51) cis-1,3-Dichloropropene   | 7.604  | 75   | 1682     | 0.166 | ug/l # | 89       |
| 52) 1,1,2-Trichloroethane     | 8.398  | 97   | 894      | 0.193 | ug/l # | 85       |
| 53) 1,3-Dichloropropane       | 8.575  | 76   | 1628     | 0.196 | ug/l   | 99       |
| 54) 2-Hexanone                | 8.694  | 43   | 3191     | 0.973 | ug/l   | 96       |
| 55) Dibromochloromethane      | 8.810  | 129  | 869      | 0.164 | ug/l   | 100      |
| 56) 1,2-Dibromoethane         | 8.929  | 107  | 762      | 0.185 | ug/l   | 98       |
| 58) Tetrachloroethene         | 8.550  | 164  | 912      | 0.203 | ug/l   | 93       |
| 59) Chlorobenzene             | 9.450  | 112  | 3351     | 0.198 | ug/l   | 90       |
| 60) 1,1,1,2-Tetrachloroethane | 9.530  | 131  | 1052     | 0.188 | ug/l # | 82       |
| 61) Pentachloroethane         | 11.427 | 117  | 911      | 0.187 | ug/l   | 87       |
| 62) Hexachloroethane          | 12.472 | 117  | 875      | 0.163 | ug/l # | 76       |
| 63) Ethyl Benzene             | 9.569  | 91   | 6081     | 0.194 | ug/l   | 98       |
| 64) m/p-Xylenes               | 9.694  | 106  | 4241     | 0.374 | ug/l   | 96       |
| 65) o-Xylene                  | 10.099 | 106  | 1909     | 0.165 | ug/l   | 75       |
| 66) Styrene                   | 10.115 | 104  | 3182     | 0.173 | ug/l   | 92       |
| 67) Bromoform                 | 10.292 | 173  | 418      | 0.163 | ug/l # | 62       |
| 69) Isopropylbenzene          | 10.482 | 105  | 5896     | 0.190 | ug/l   | 98       |
| 70) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 1233     | 0.197 | ug/l # | 96       |
| 71) 1,2,3-Trichloropropane    | 10.816 | 75   | 354      | 0.066 | ug/l # | 1        |
| 72) Bromobenzene              | 10.784 | 156  | 1245     | 0.207 | ug/l   | 95       |
| 73) n-propylbenzene           | 10.903 | 120  | 1377     | 0.167 | ug/l   | 84       |
| 74) 2-Chlorotoluene           | 10.987 | 126  | 1173     | 0.172 | ug/l   | 80       |
| 75) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 4904     | 0.190 | ug/l   | 96       |
| 76) 4-Chlorotoluene           | 11.096 | 126  | 1557     | 0.217 | ug/l   | 78       |
| 77) tert-Butylbenzene         | 11.418 | 119  | 4705     | 0.186 | ug/l   | 99       |
| 78) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 5105     | 0.194 | ug/l   | 98       |
| 79) sec-Butylbenzene          | 11.639 | 105  | 6318     | 0.180 | ug/l   | 99       |
| 80) Nitrobenzene              | 13.225 | 77   | 109      | 0.334 | ug/l # | 44       |
| 81) p-Isopropyltoluene        | 11.787 | 119  | 5042     | 0.181 | ug/l # | 84       |
| 82) 1,3-Dichlorobenzene       | 11.746 | 146  | 2445     | 0.185 | ug/l   | 96       |
| 83) 1,4-Dichlorobenzene       | 11.836 | 146  | 2592     | 0.192 | ug/l   | 92       |
| 84) n-Butylbenzene            | 12.209 | 91   | 5554     | 0.193 | ug/l   | 97       |
| 85) 1,2-Dichlorobenzene       | 12.212 | 146  | 2351     | 0.187 | ug/l   | 92       |
| 87) 1,2,4-Trichlorobenzene    | 13.842 | 180  | 1784     | 0.231 | ug/l # | 91       |
| 88) Hexachlorobutadiene       | 14.022 | 225  | 718      | 0.190 | ug/l # | 87       |
| 89) Naphthalene               | 14.090 | 128  | 4504     | 0.274 | ug/l   | 98       |
| 90) 1,2,3-Trichlorobenzene    | 14.324 | 180  | 1744     | 0.256 | ug/l # | 84       |

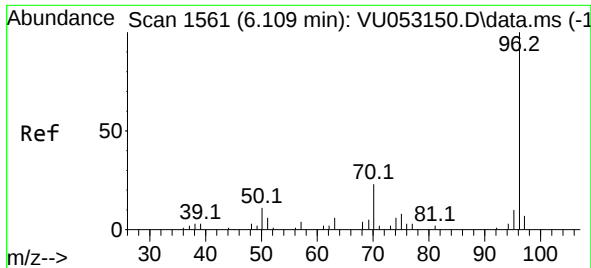
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 ALS Vial : 8 Sample Multiplier: 1

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 QLast Update : Wed Mar 01 03:54:45 2023  
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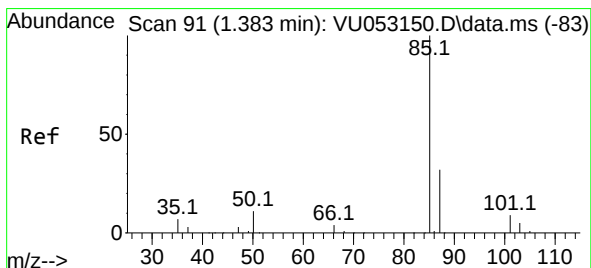
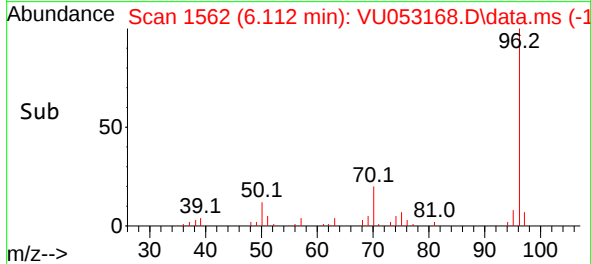
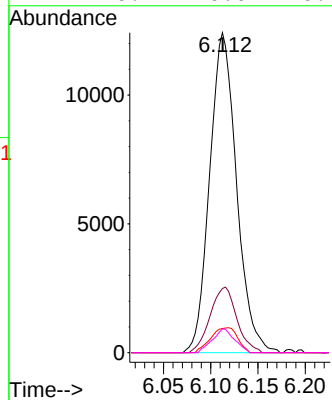
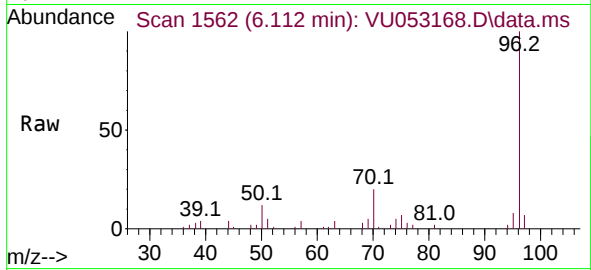




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.112 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

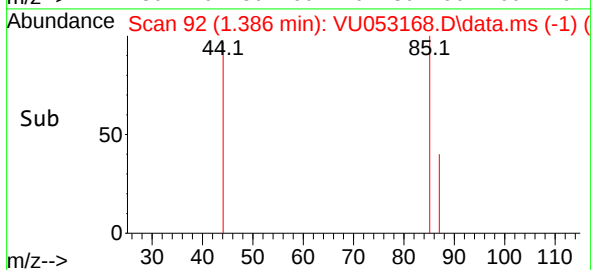
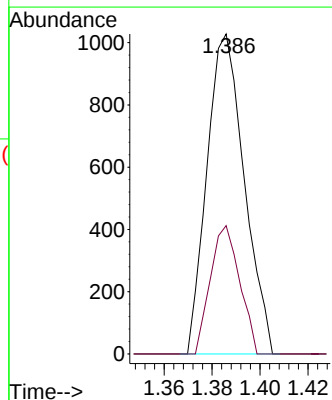
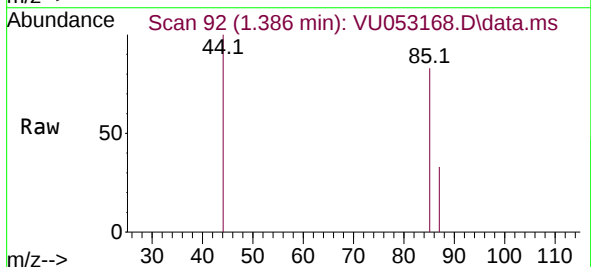
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

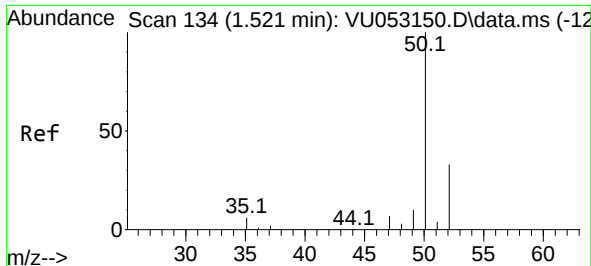
|             |                |
|-------------|----------------|
| Tgt Ion: 96 | Resp: 24557    |
| Ion Ratio   | Lower Upper    |
| 96          | 100            |
| 70          | 20.3 15.5 23.3 |
| 95          | 7.8 7.0 10.6   |
| 97          | 6.1 0.0 0.0#   |



#2  
Dichlorodifluoromethane  
Concen: 0.178 ug/l  
RT: 1.386 min Scan# 92  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

|             |                |
|-------------|----------------|
| Tgt Ion: 85 | Resp: 1109     |
| Ion Ratio   | Lower Upper    |
| 85          | 100            |
| 87          | 40.1 16.1 48.2 |





#3

Chloromethane

Concen: 0.199 ug/l

RT: 1.521 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

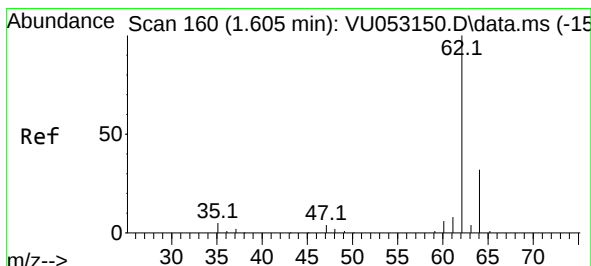
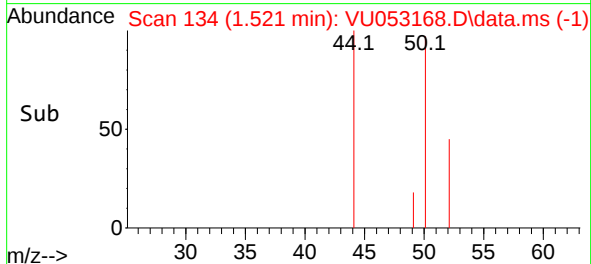
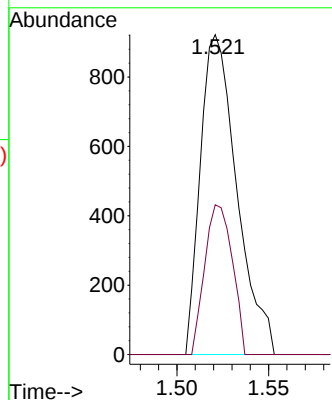
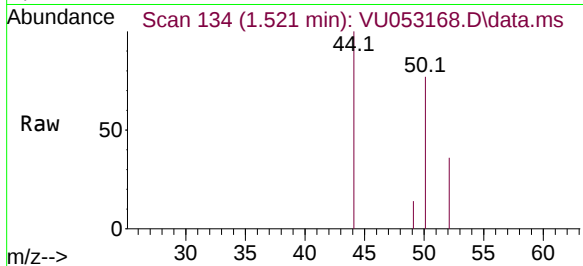
MDL-WATER-03-QT1-2023

Tgt Ion: 50 Resp: 1276

Ion Ratio Lower Upper

50 100

52 46.9 26.7 40.1#



#4

Vinyl Chloride

Concen: 0.188 ug/l

RT: 1.605 min Scan# 160

Delta R.T. -0.000 min

Lab File: VU053168.D

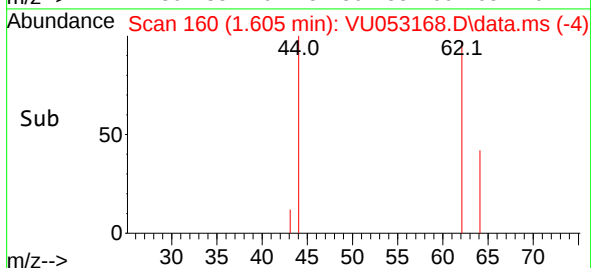
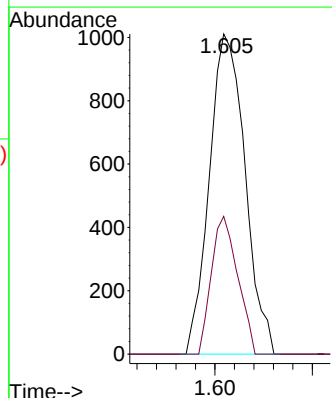
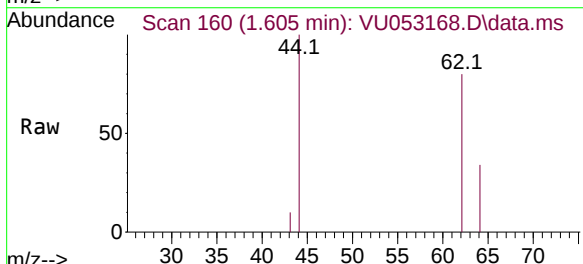
Acq: 28 Feb 2023 12:47

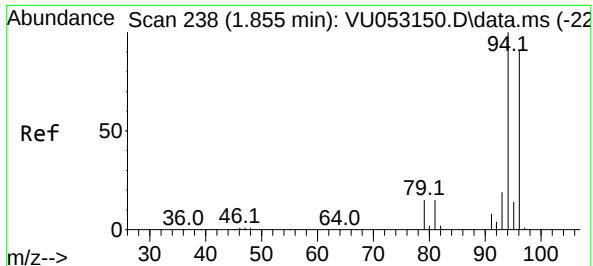
Tgt Ion: 62 Resp: 1287

Ion Ratio Lower Upper

62 100

64 43.0 25.8 38.6#

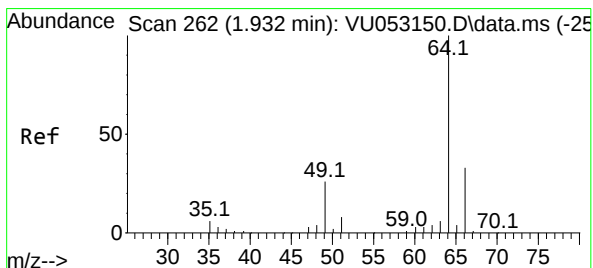
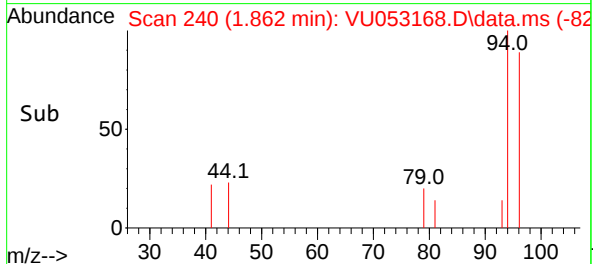
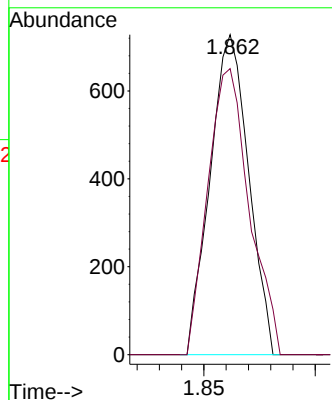
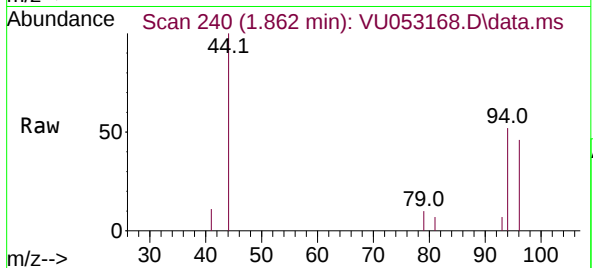




#5  
Bromomethane  
Concen: 0.224 ug/l  
RT: 1.862 min Scan# 240  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

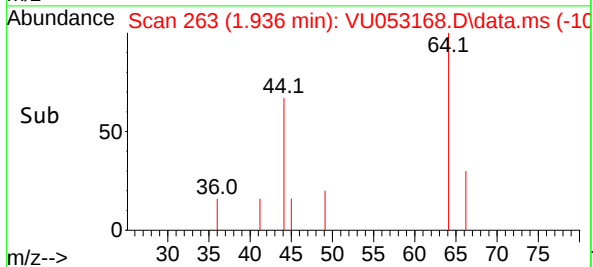
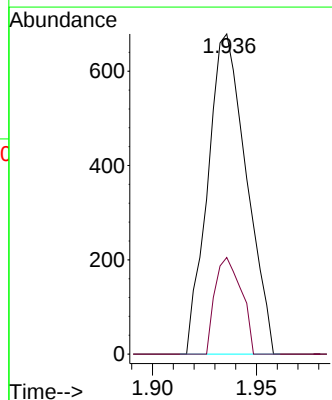
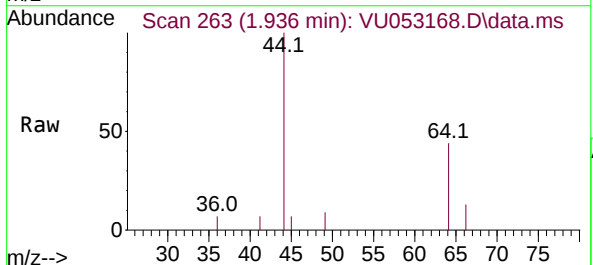
Instrument :  
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ClientSampleId :  
MDL-WATER-03-QT1-2023

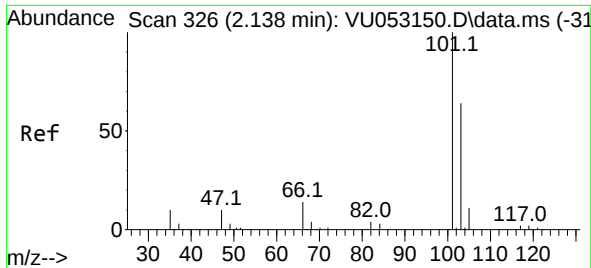
Tgt Ion: 94 Resp: 873  
Ion Ratio Lower Upper  
94 100  
96 89.4 72.6 108.8



#6  
Chloroethane  
Concen: 0.211 ug/l  
RT: 1.936 min Scan# 263  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 64 Resp: 877  
Ion Ratio Lower Upper  
64 100  
66 30.2 26.8 40.2

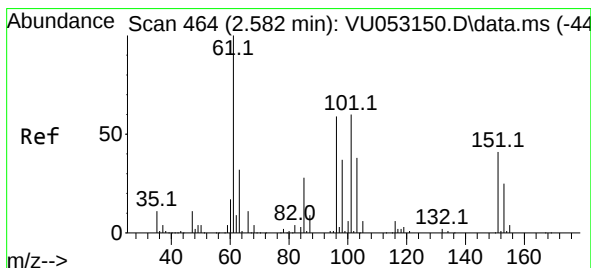
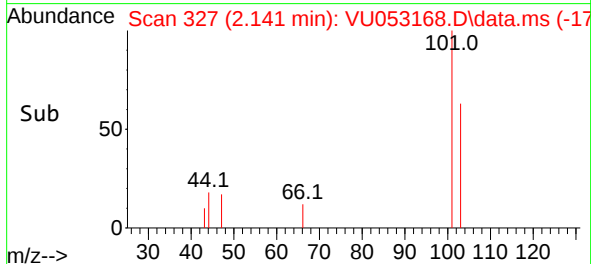
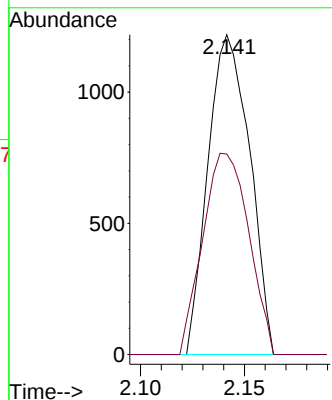
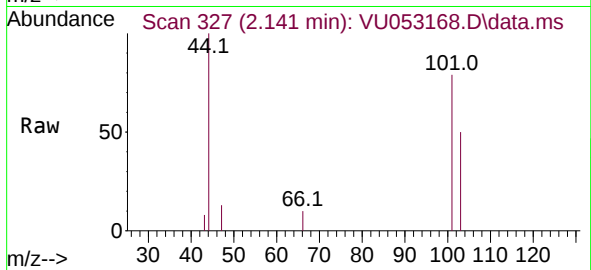




#7  
Trichlorofluoromethane  
Concen: 0.173 ug/l  
RT: 2.141 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

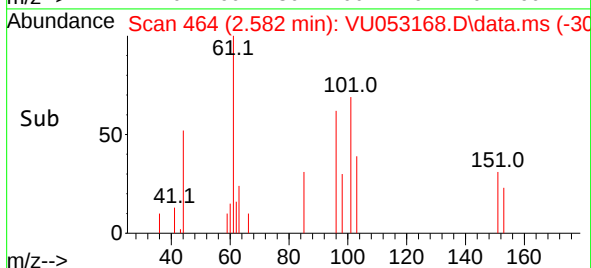
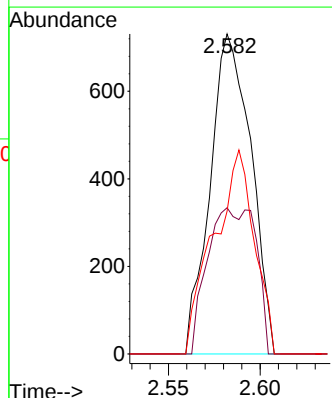
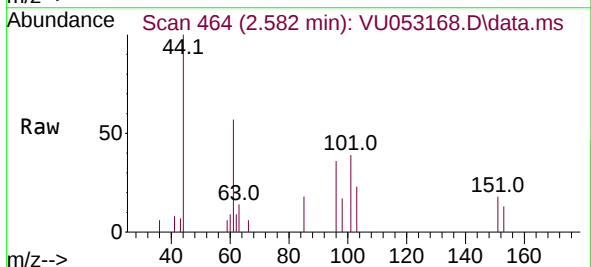
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

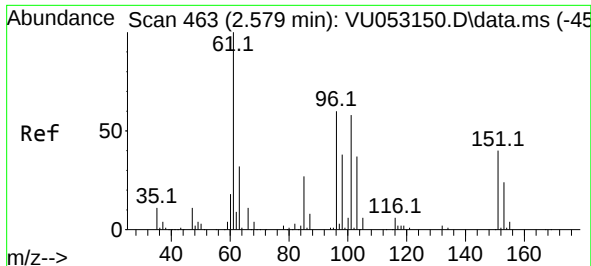
Tgt Ion:101 Resp: 1702  
Ion Ratio Lower Upper  
101 100  
103 62.7 51.2 76.8



#8  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.184 ug/l  
RT: 2.582 min Scan# 464  
Delta R.T. 0.000 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:101 Resp: 1135  
Ion Ratio Lower Upper  
101 100  
85 36.0 37.3 55.9#  
151 63.6 52.4 78.6

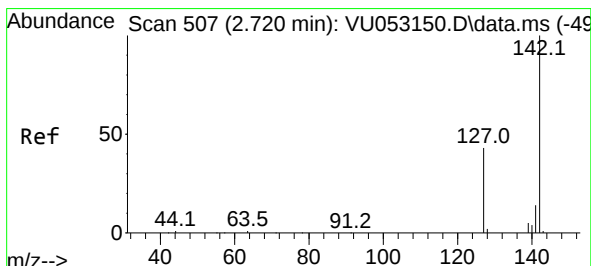
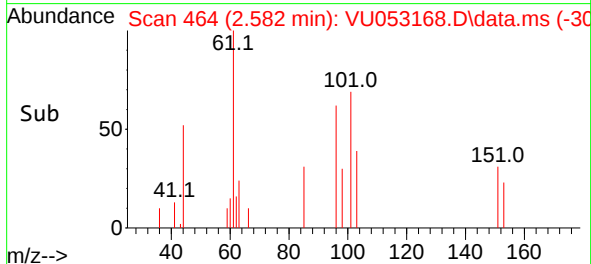
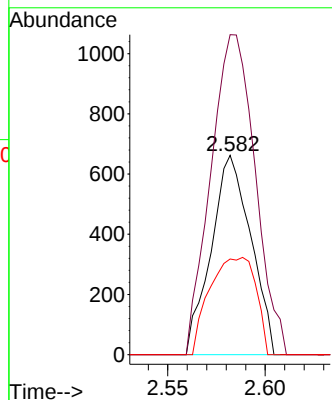
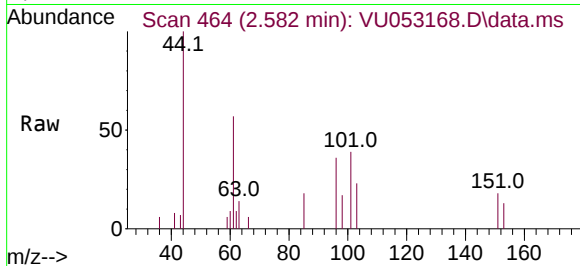




#9  
1,1-Dichloroethene  
Concen: 0.175 ug/l  
RT: 2.582 min Scan# 463  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

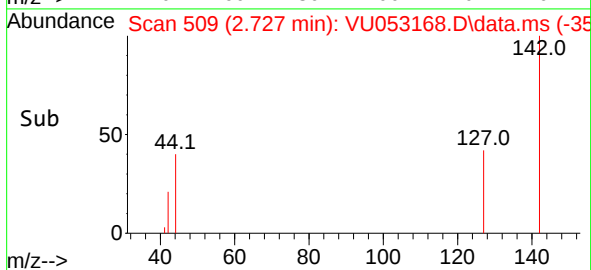
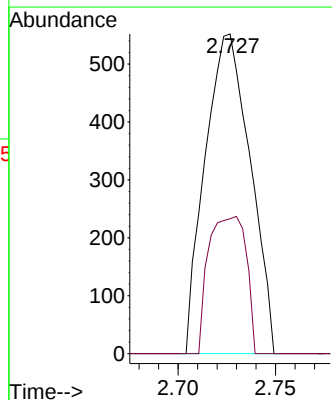
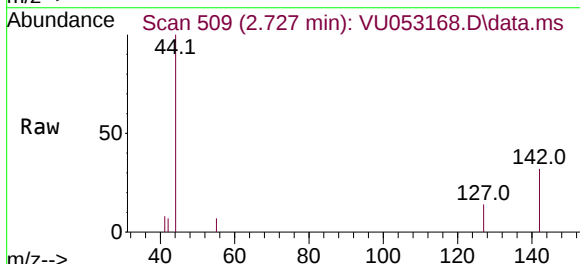
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

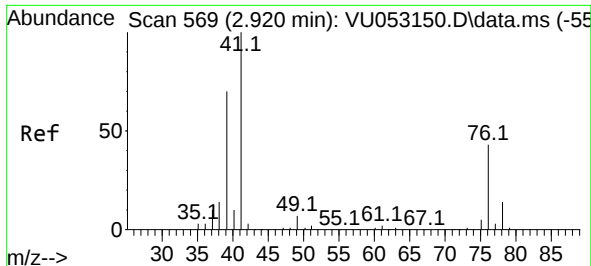
Tgt Ion: 96 Resp: 937  
Ion Ratio Lower Upper  
96 100  
61 160.6 0.0 502.5  
98 48.0 0.0 126.2



#10  
Iodomethane  
Concen: 0.161 ug/l  
RT: 2.727 min Scan# 509  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 142 Resp: 887  
Ion Ratio Lower Upper  
142 100  
127 35.7 35.8 53.8#

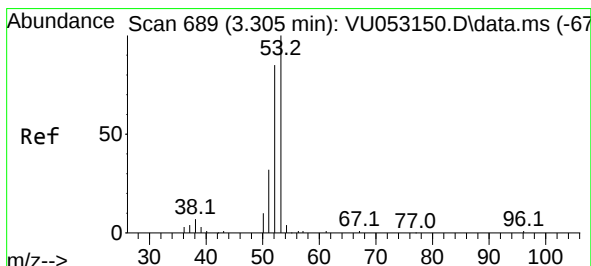
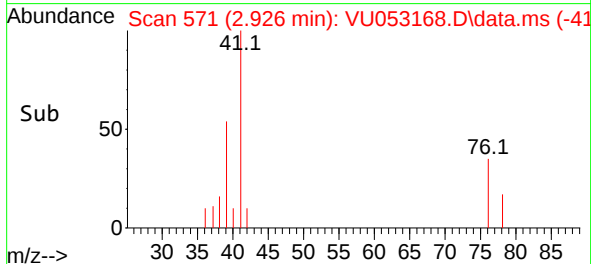
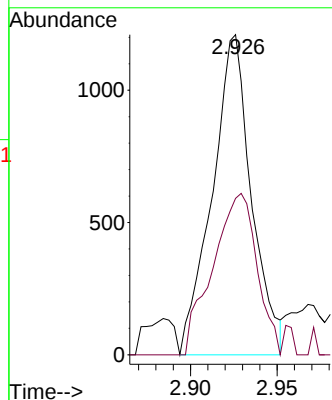
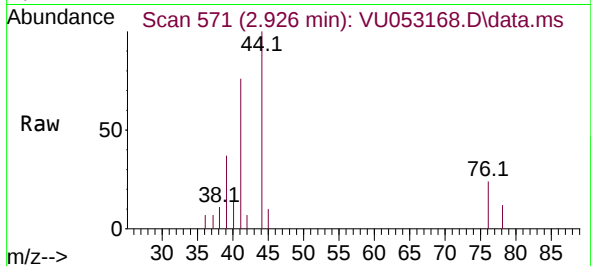




#11  
 Allyl Chloride  
 Concen: 0.228 ug/l  
 RT: 2.926 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VU053168.D  
 Acq: 28 Feb 2023 12:47

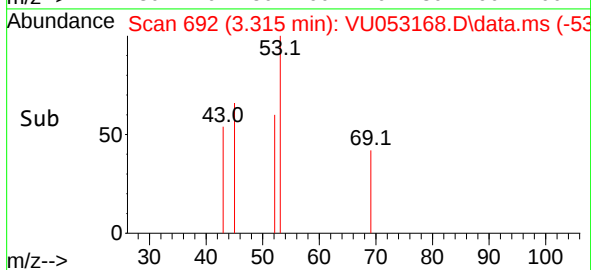
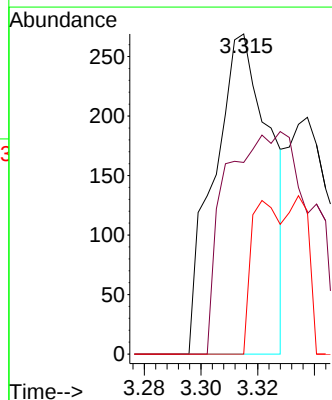
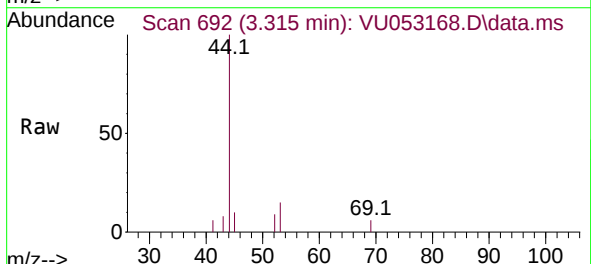
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT1-2023

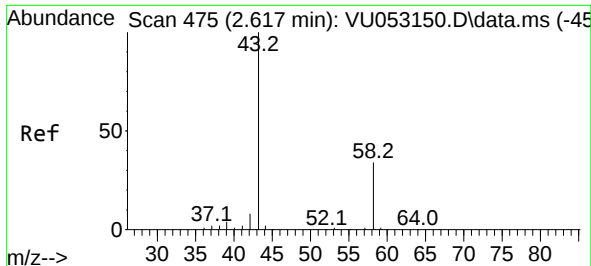
Tgt Ion: 41 Resp: 1906  
 Ion Ratio Lower Upper  
 41 100  
 39 56.8 55.3 82.9



#12  
 Acrylonitrile  
 Concen: 0.271 ug/l  
 RT: 3.315 min Scan# 692  
 Delta R.T. 0.010 min  
 Lab File: VU053168.D  
 Acq: 28 Feb 2023 12:47

Tgt Ion: 53 Resp: 371  
 Ion Ratio Lower Upper  
 53 100  
 52 104.0 65.9 98.9#  
 51 24.8 31.8 47.8#





#13

Acetone

Concen: 1.046 ug/l

RT: 2.643 min Scan# 41

Delta R.T. 0.026 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

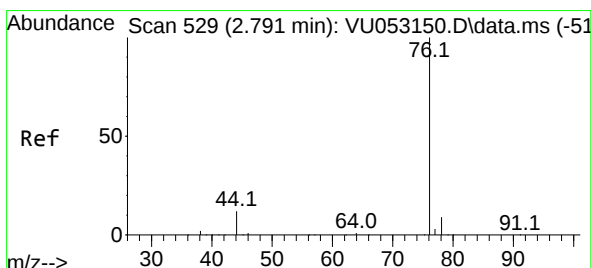
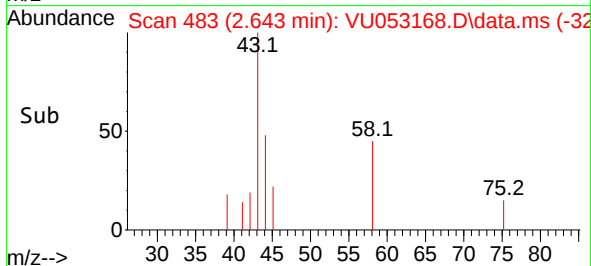
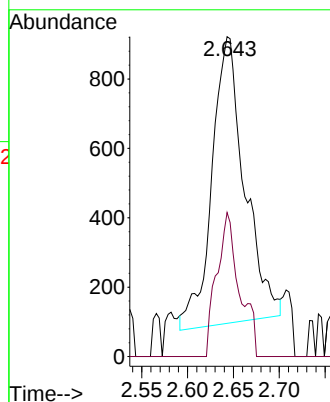
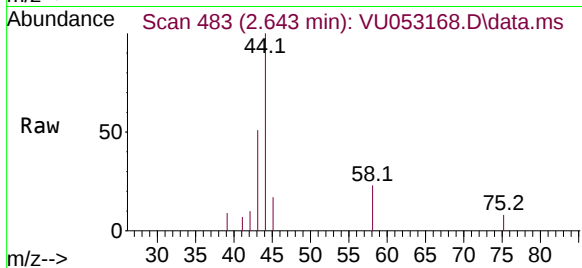
MDL-WATER-03-QT1-2023

Tgt Ion: 43 Resp: 2046

Ion Ratio Lower Upper

43 100

58 51.6 27.2 40.8#



#14

Carbon Disulfide

Concen: 0.198 ug/l

RT: 2.794 min Scan# 530

Delta R.T. 0.003 min

Lab File: VU053168.D

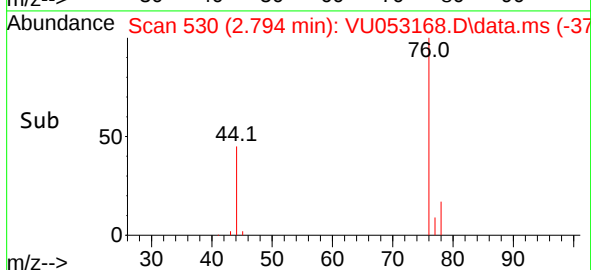
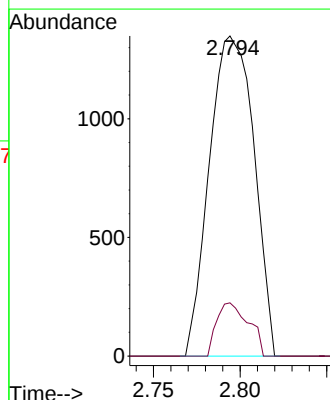
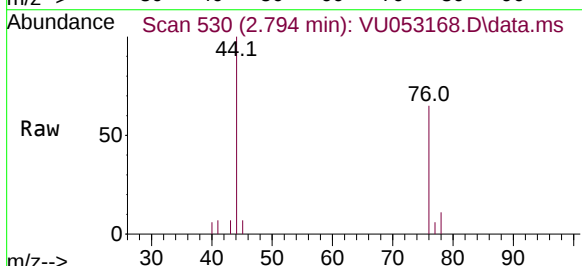
Acq: 28 Feb 2023 12:47

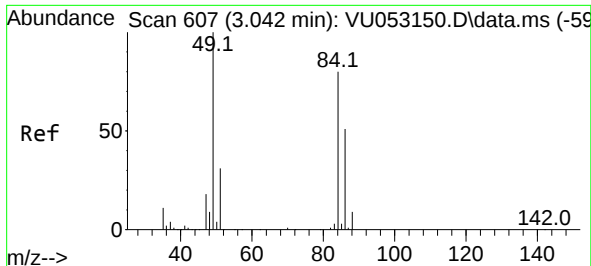
Tgt Ion: 76 Resp: 2423

Ion Ratio Lower Upper

76 100

78 16.6 7.2 10.8#

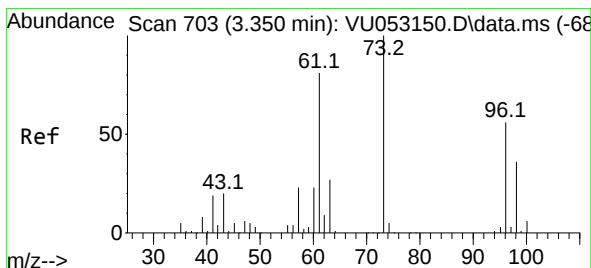
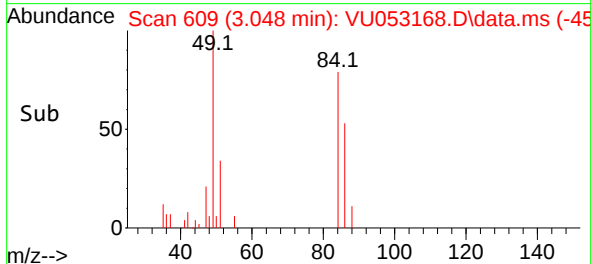
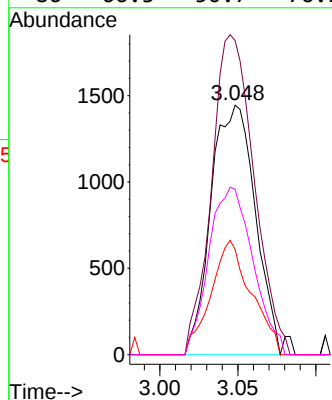
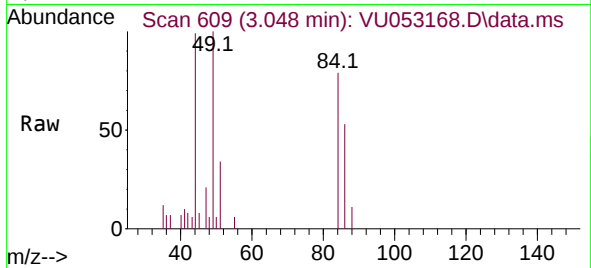




#15  
Methylene Chloride  
Concen: 0.372 ug/l  
RT: 3.048 min Scan# 607  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

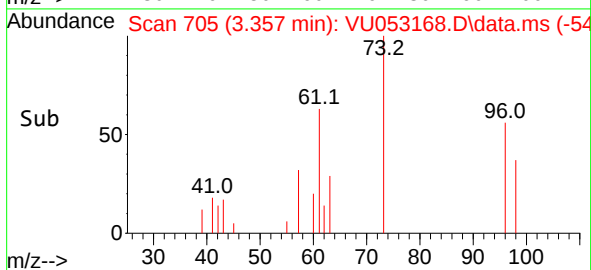
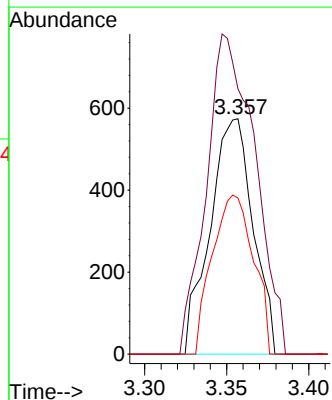
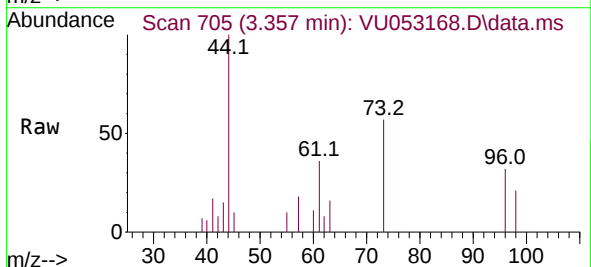
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

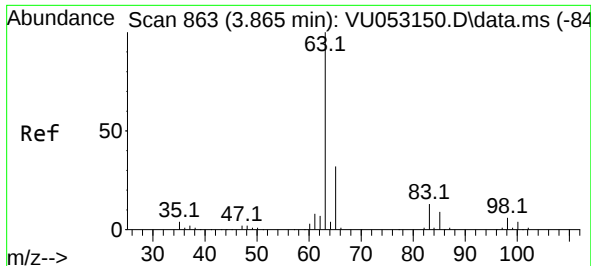
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 2845  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 126.0 | 99.5  | 149.3 |
| 51       | 42.2  | 0.0   | 76.8  |
| 86       | 66.3  | 50.7  | 76.1  |



#16  
trans-1,2-Dichloroethene  
Concen: 0.179 ug/l  
RT: 3.357 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 1049   |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 112.7 | 116.1 | 174.1# |
| 98       | 66.4  | 51.4  | 77.2   |

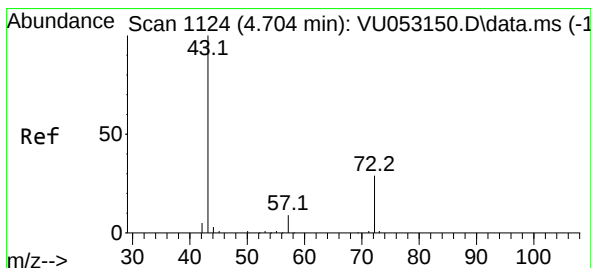
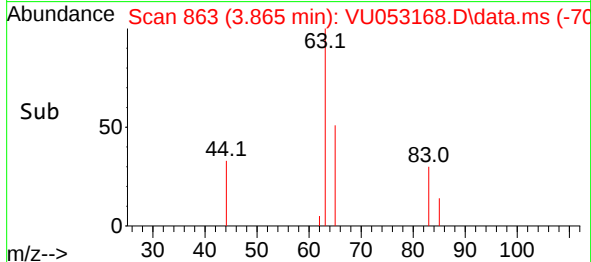
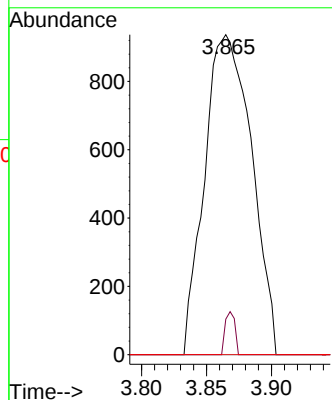
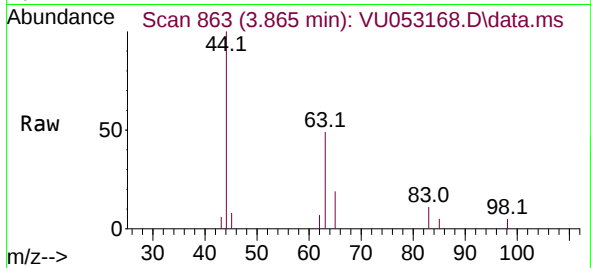




#17  
1,1-Dichloroethane  
Concen: 0.183 ug/l  
RT: 3.865 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

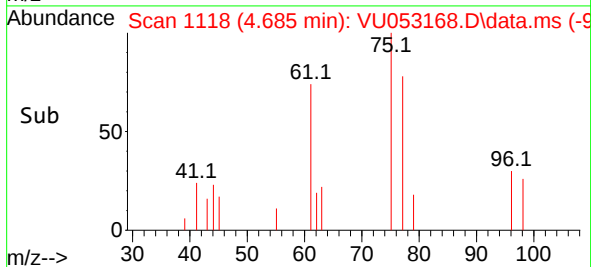
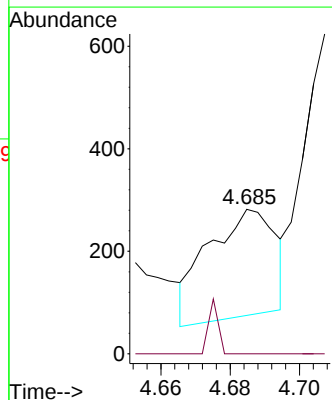
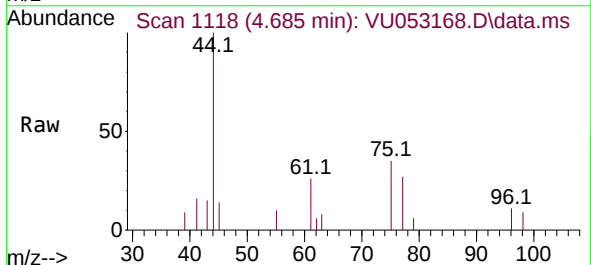
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

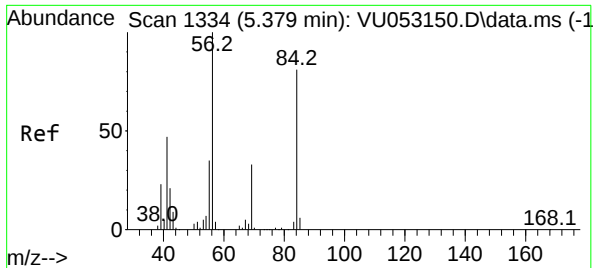
Tgt Ion: 63 Resp: 2359  
Ion Ratio Lower Upper  
63 100  
98 11.1 3.1 9.4#  
100 0.0 2.1 6.2#



#18  
2-Butanone  
Concen: 0.120 ug/l  
RT: 4.685 min Scan# 1118  
Delta R.T. -0.019 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 43 Resp: 282  
Ion Ratio Lower Upper  
43 100  
57 0.0 0.0 17.6





#19

Cyclohexane

Concen: 0.200 ug/l

RT: 5.386 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

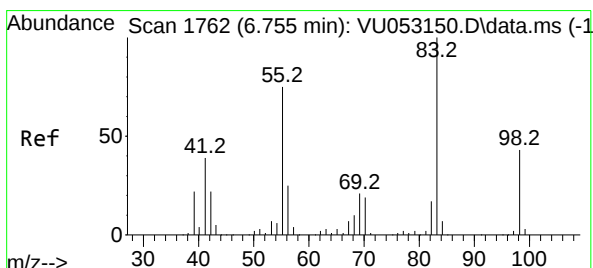
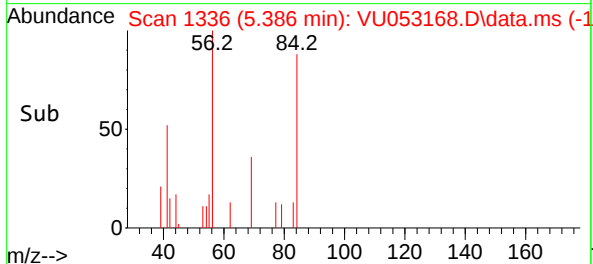
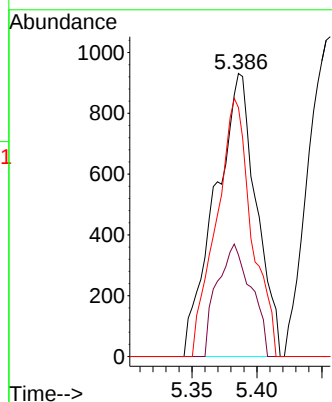
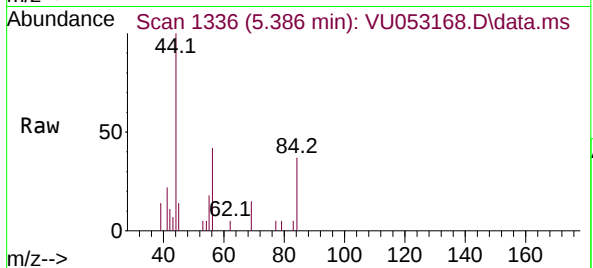
Tgt Ion: 56 Resp: 2050

Ion Ratio Lower Upper

56 100

69 32.9 26.1 39.1

84 78.2 64.7 97.1



#20

Methylcyclohexane

Concen: 0.178 ug/l

RT: 6.759 min Scan# 1763

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

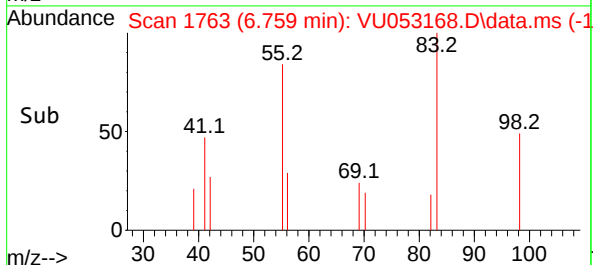
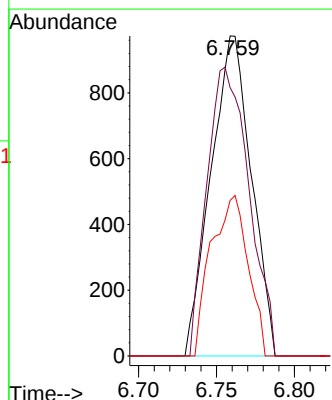
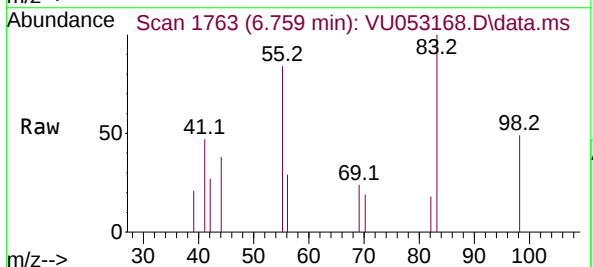
Tgt Ion: 83 Resp: 1754

Ion Ratio Lower Upper

83 100

55 94.1 60.2 90.2#

98 46.0 33.9 50.9





#21

2,2-Dichloropropane

Concen: 0.237 ug/l

RT: 4.662 min Scan# 1111

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

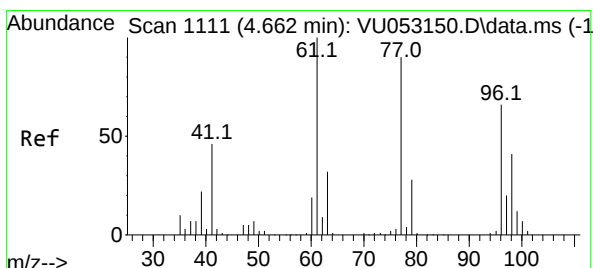
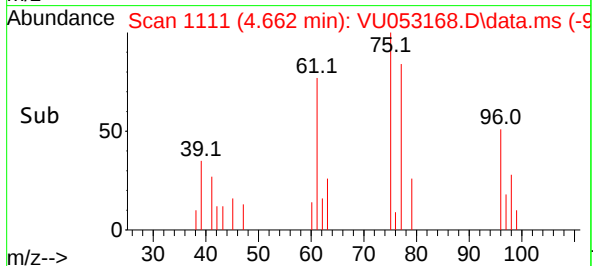
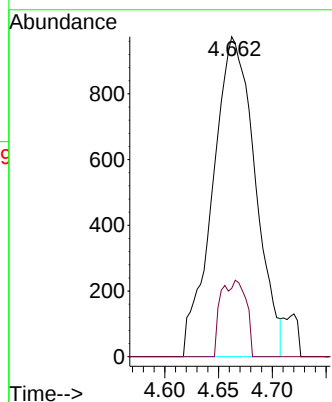
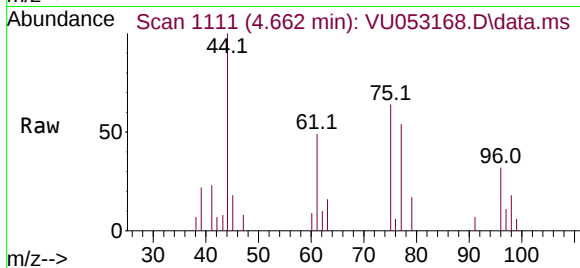
MDL-WATER-03-QT1-2023

Tgt Ion: 77 Resp: 2671

Ion Ratio Lower Upper

77 100

97 5.5 17.9 26.9#



#22

cis-1,2-Dichloroethene

Concen: 0.199 ug/l

RT: 4.672 min Scan# 1114

Delta R.T. 0.010 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

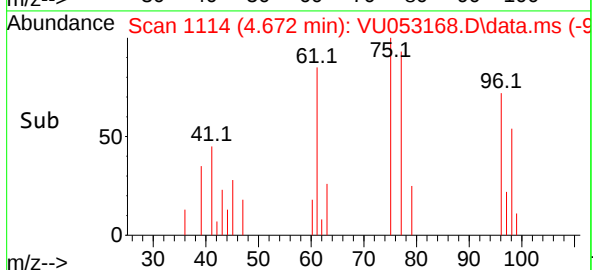
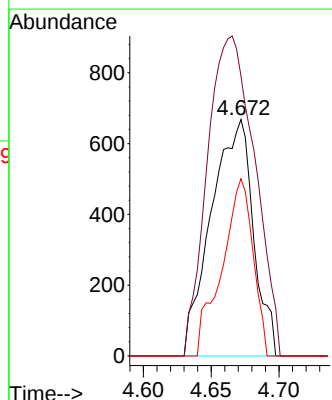
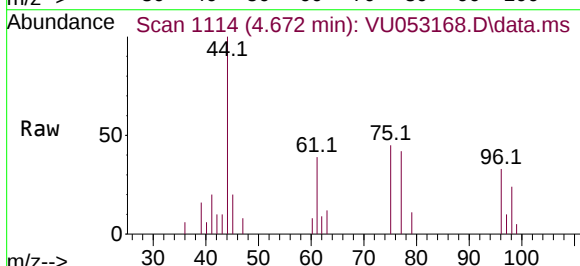
Tgt Ion: 96 Resp: 1445

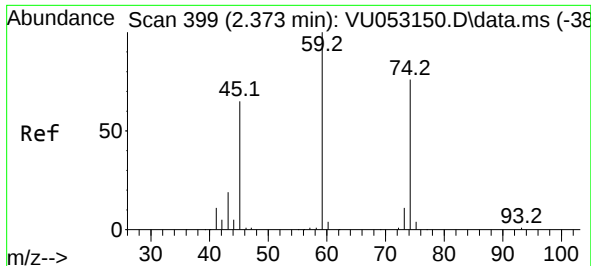
Ion Ratio Lower Upper

96 100

61 152.2 0.0 390.5

98 55.2 31.9 95.9

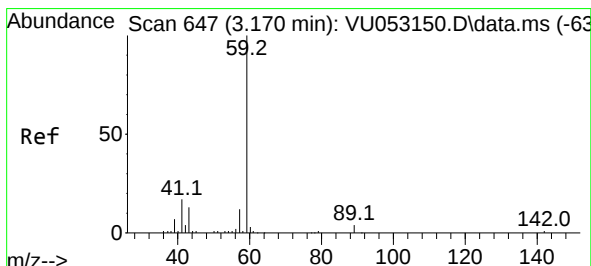
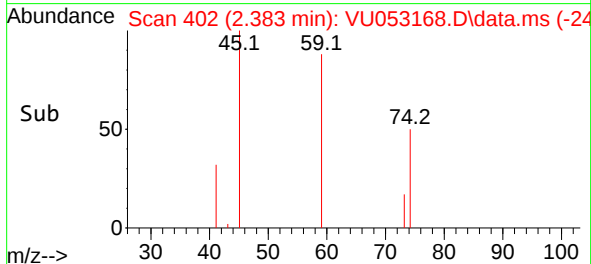
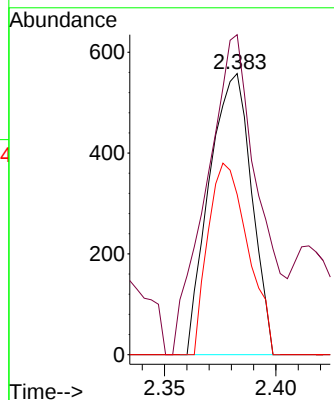
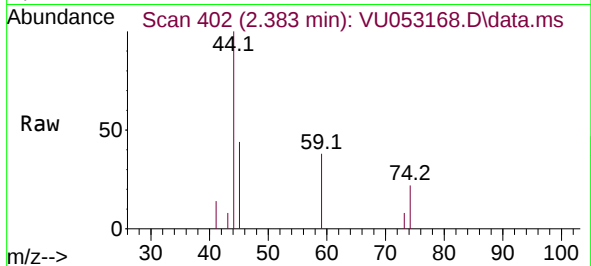




#23  
Diethyl Ether  
Concen: 0.169 ug/l  
RT: 2.383 min Scan# 402  
Delta R.T. 0.010 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

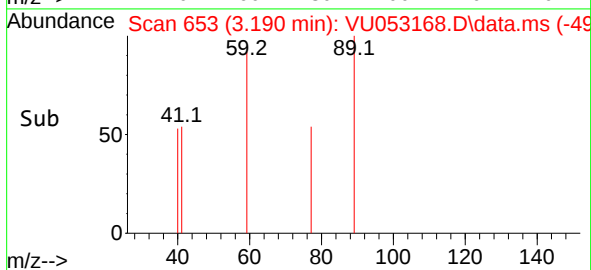
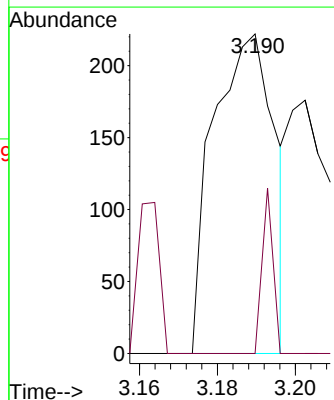
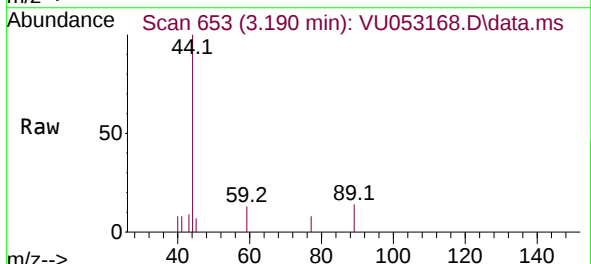
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MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

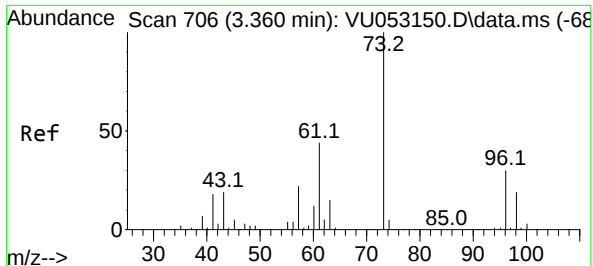
Tgt Ion: 59 Resp: 738  
Ion Ratio Lower Upper  
59 100  
45 140.1 54.2 81.2#  
74 64.4 60.4 90.6



#24  
tert-Butyl Alcohol  
Concen: 0.471 ug/l  
RT: 3.190 min Scan# 653  
Delta R.T. 0.019 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 59 Resp: 242  
Ion Ratio Lower Upper  
59 100  
57 16.5 8.7 13.1#

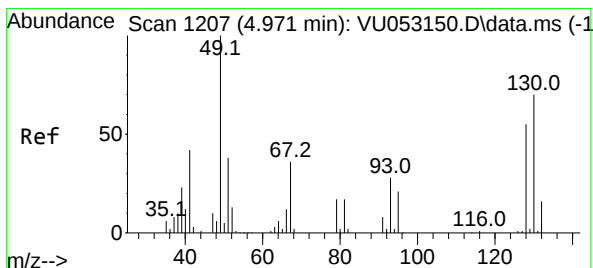
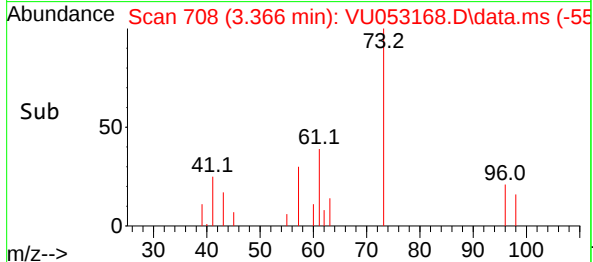
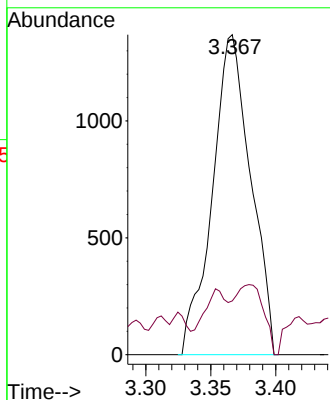
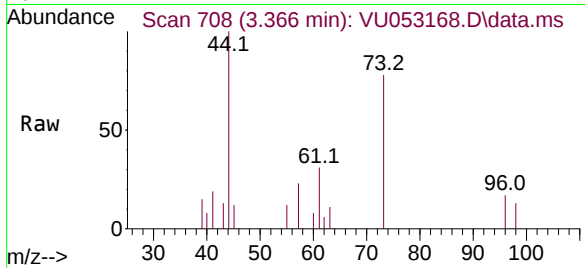




#25  
Methyl tert-Butyl Ether  
Concen: 0.181 ug/l  
RT: 3.366 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

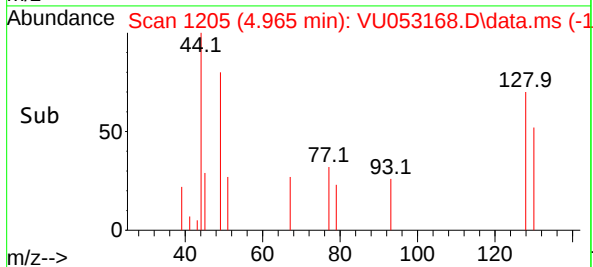
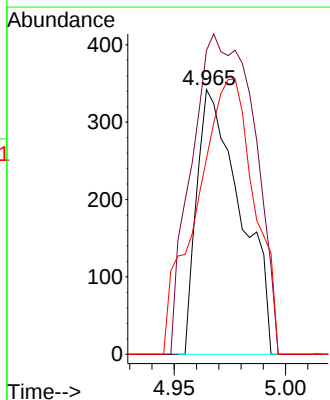
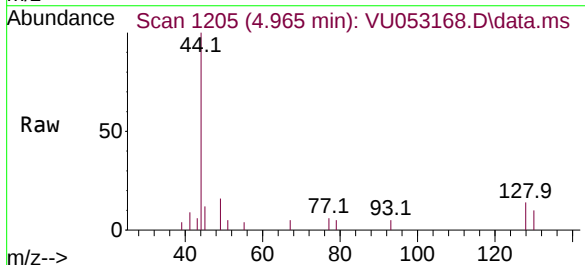
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

Tgt Ion: 73 Resp: 2816  
Ion Ratio Lower Upper  
73 100  
43 15.1 15.0 22.6



#26  
Bromochloromethane  
Concen: 0.166 ug/l  
RT: 4.965 min Scan# 1205  
Delta R.T. -0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 128 Resp: 466  
Ion Ratio Lower Upper  
128 100  
49 173.2 0.0 376.8  
130 137.8 104.8 157.2





#27

Chloroform

Concen: 0.193 ug/l

RT: 5.090 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

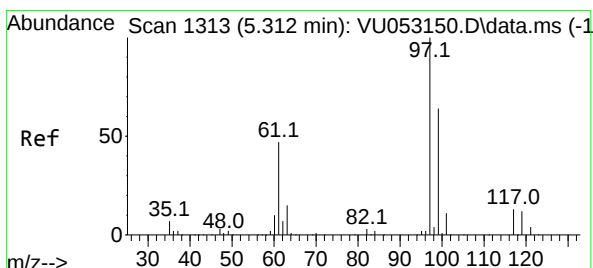
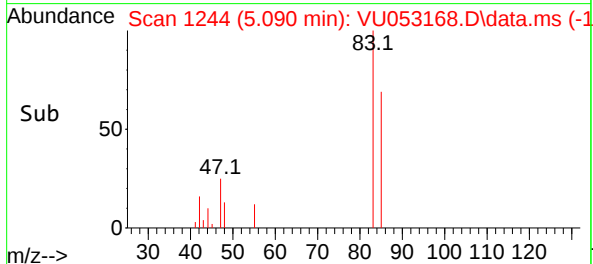
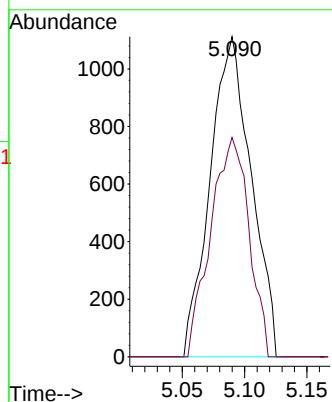
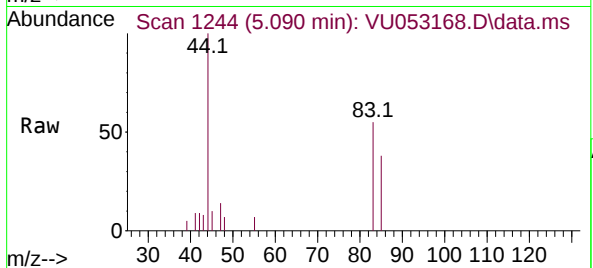
MDL-WATER-03-QT1-2023

Tgt Ion: 83 Resp: 2552

Ion Ratio Lower Upper

83 100

85 68.5 0.0 129.2



#28

1,1,1-Trichloroethane

Concen: 0.193 ug/l

RT: 5.315 min Scan# 1314

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

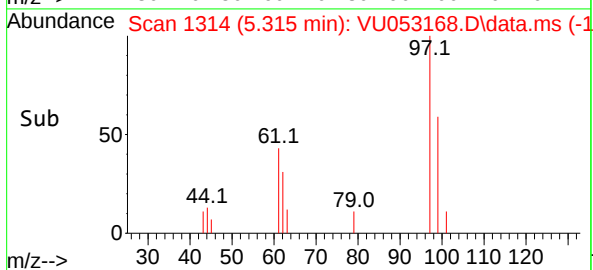
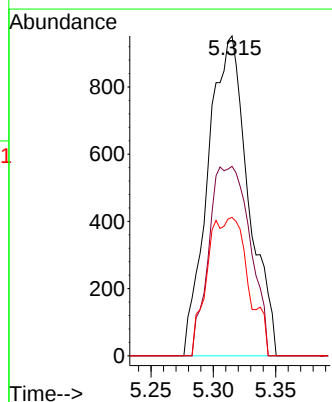
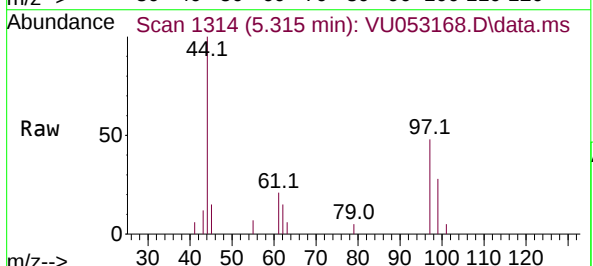
Tgt Ion: 97 Resp: 2145

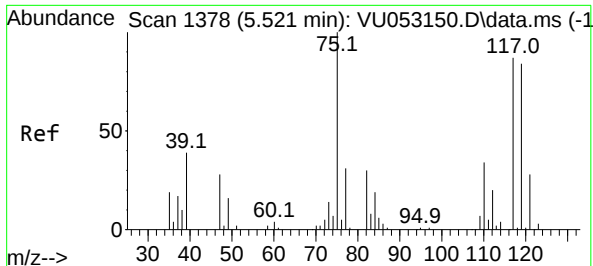
Ion Ratio Lower Upper

97 100

99 60.3 31.6 94.8

61 16.7 23.9 71.7#





#29

1,1-Dichloropropene

Concen: 0.210 ug/l

RT: 5.524 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

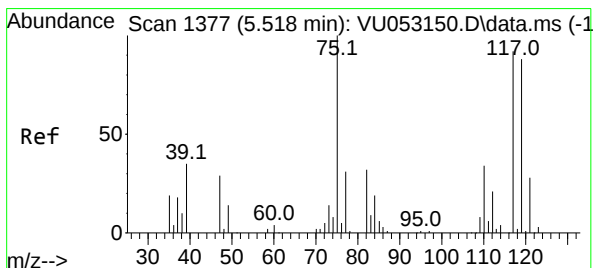
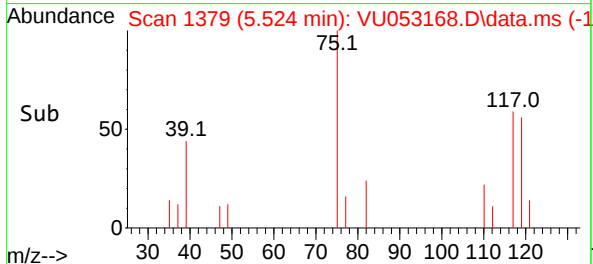
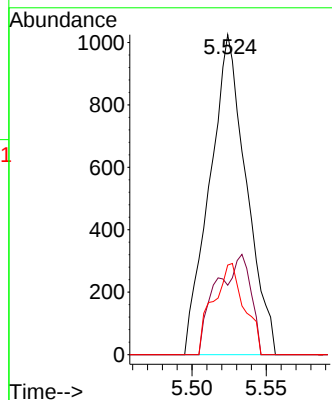
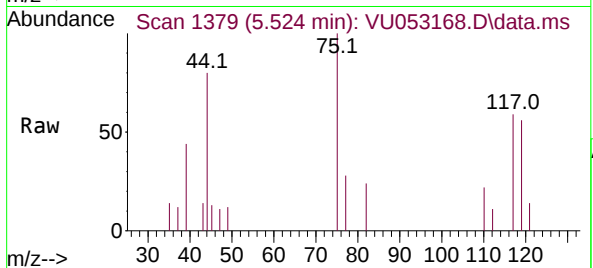
Tgt Ion: 75 Resp: 1750

Ion Ratio Lower Upper

75 100

110 16.1 16.3 48.8#

77 24.2 24.9 37.3#



#30

Carbon Tetrachloride

Concen: 0.167 ug/l

RT: 5.521 min Scan# 1378

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

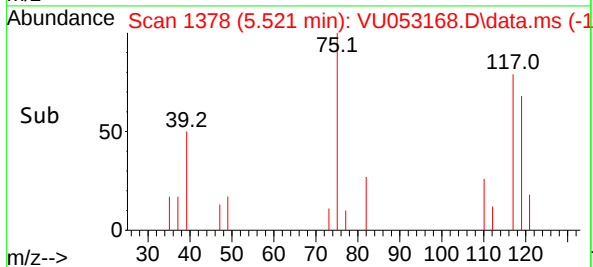
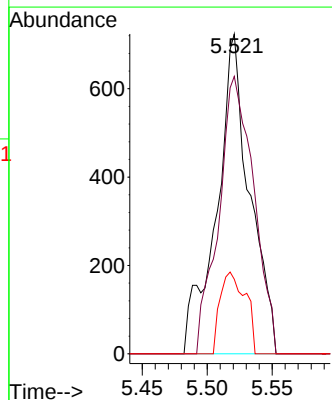
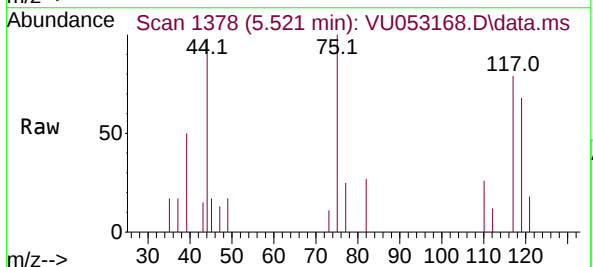
Tgt Ion: 117 Resp: 1281

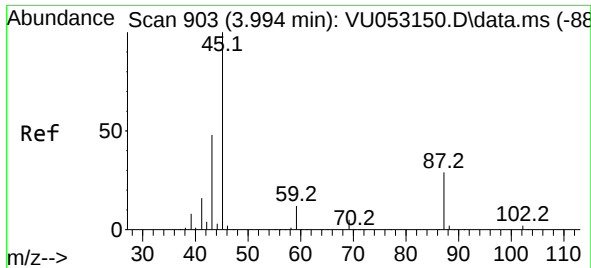
Ion Ratio Lower Upper

117 100

119 86.7 76.2 114.2

121 23.3 24.6 36.8#

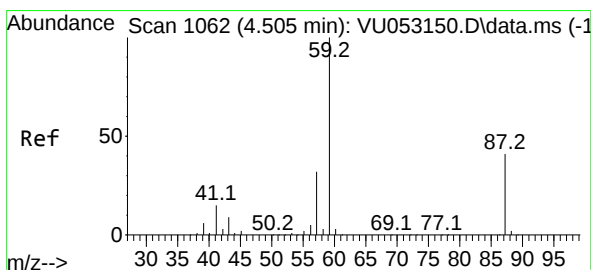
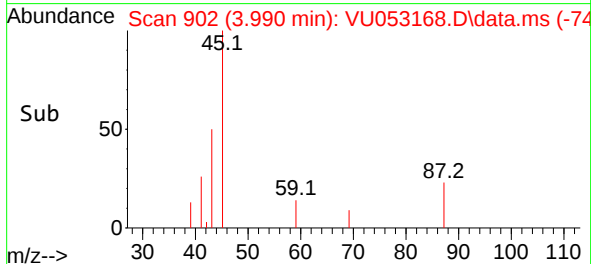
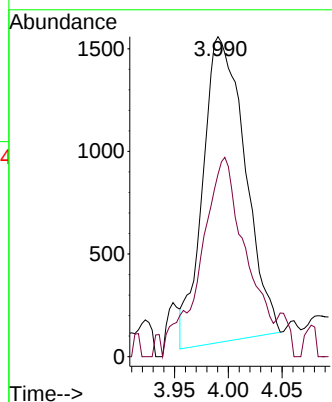
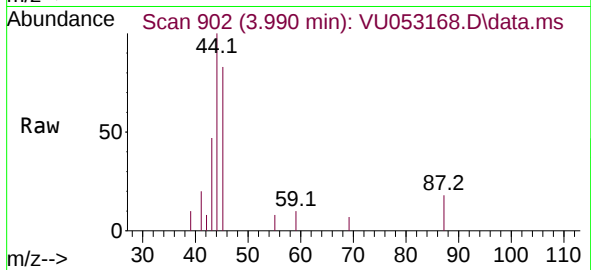




#31  
Isopropyl Ether  
Concen: 0.198 ug/l  
RT: 3.990 min Scan# 903  
Delta R.T. -0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

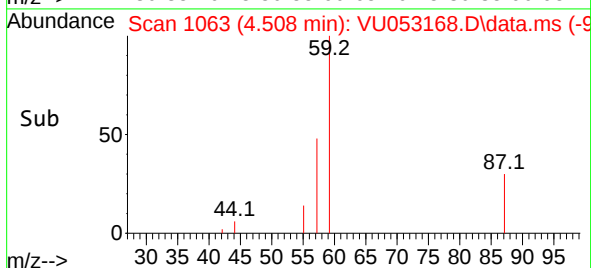
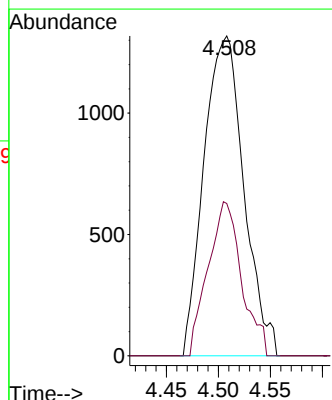
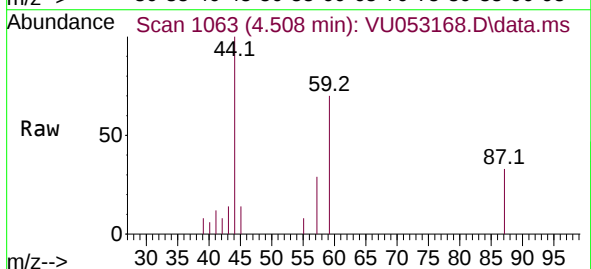
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

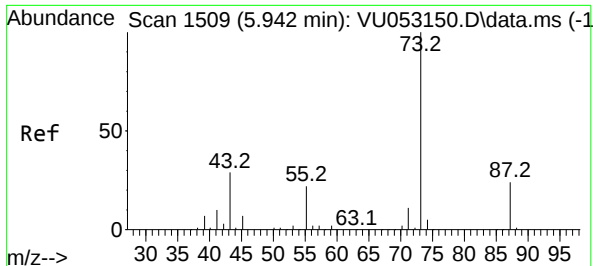
Tgt Ion: 45 Resp: 4066  
Ion Ratio Lower Upper  
45 100  
43 69.8 24.4 73.2



#32  
Ethyl-t-butyl ether  
Concen: 0.181 ug/l  
RT: 4.508 min Scan# 1063  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 59 Resp: 3524  
Ion Ratio Lower Upper  
59 100  
87 40.6 32.5 48.7

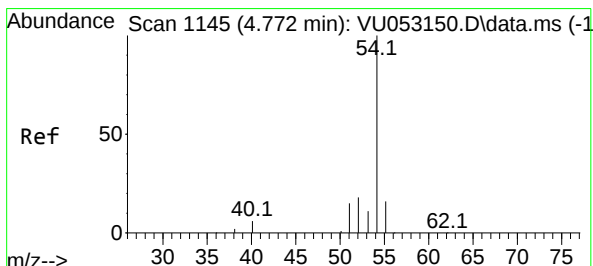
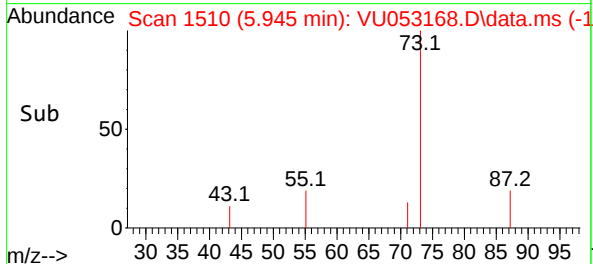
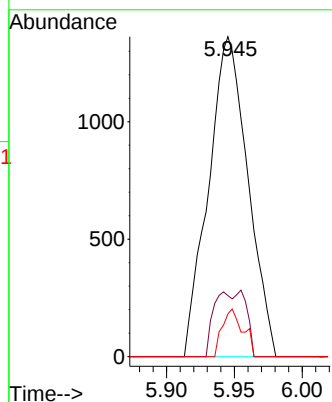
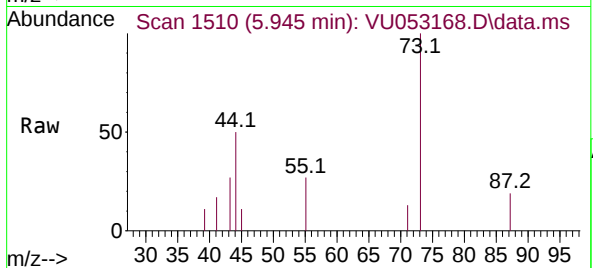




#33  
Tert-Amyl methyl ether  
Concen: 0.178 ug/l  
RT: 5.945 min Scan# 1148  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

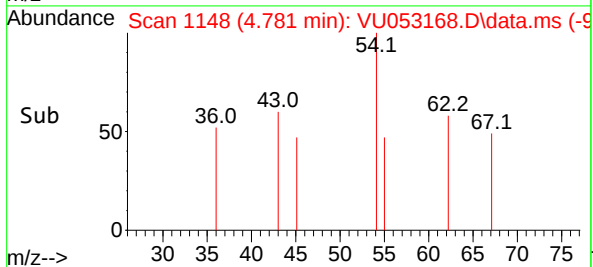
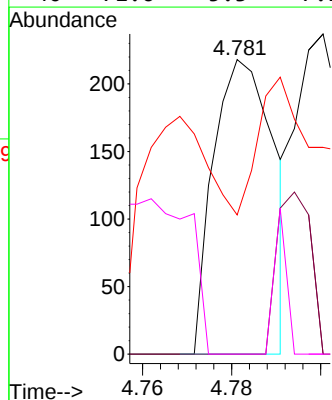
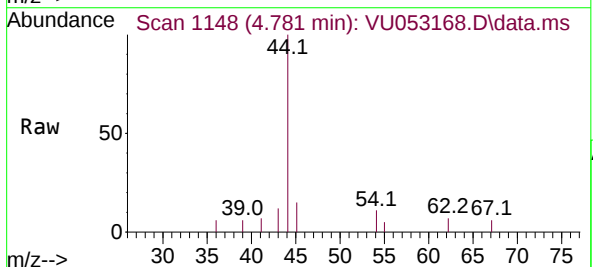
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

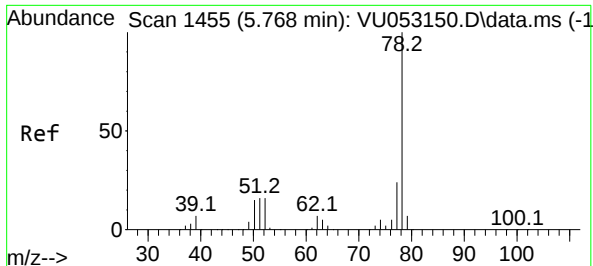
Tgt Ion: 73 Resp: 2748  
Ion Ratio Lower Upper  
73 100  
87 10.0 19.0 28.4#  
71 7.8 9.2 13.8#



#34  
Propionitrile  
Concen: 0.373 ug/l  
RT: 4.781 min Scan# 1148  
Delta R.T. 0.010 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 54 Resp: 204  
Ion Ratio Lower Upper  
54 100  
52 0.0 16.5 24.7#  
55 107.8 11.4 17.2#  
40 71.6 5.3 7.9#





#35

Benzene

Concen: 0.187 ug/l

RT: 5.772 min Scan# 1456

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

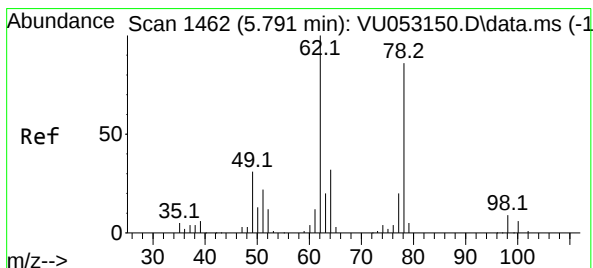
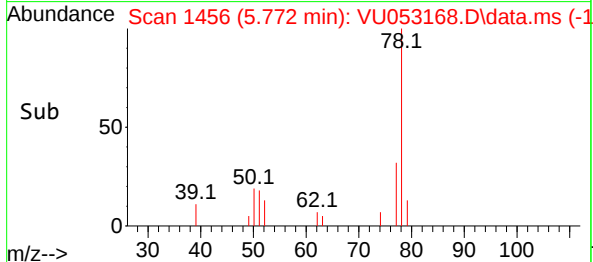
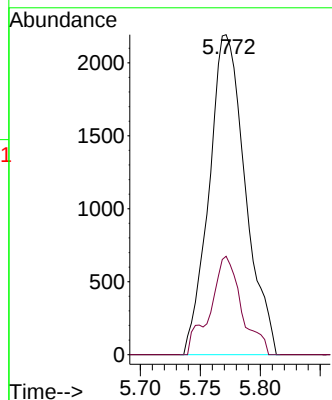
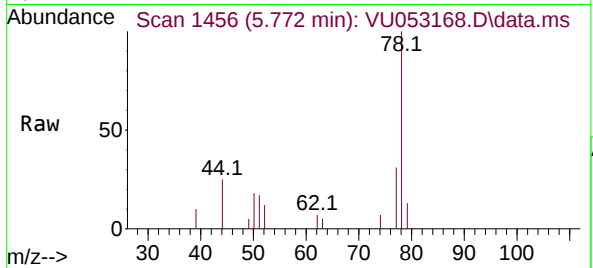
MDL-WATER-03-QT1-2023

Tgt Ion: 78 Resp: 4603

Ion Ratio Lower Upper

78 100

77 30.7 18.9 28.3#



#36

1,2-Dichloroethane

Concen: 0.187 ug/l

RT: 5.791 min Scan# 1462

Delta R.T. -0.000 min

Lab File: VU053168.D

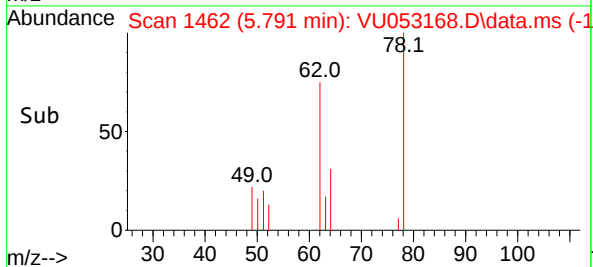
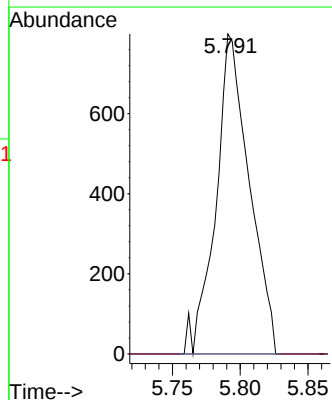
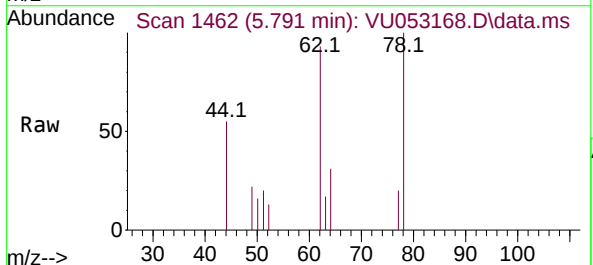
Acq: 28 Feb 2023 12:47

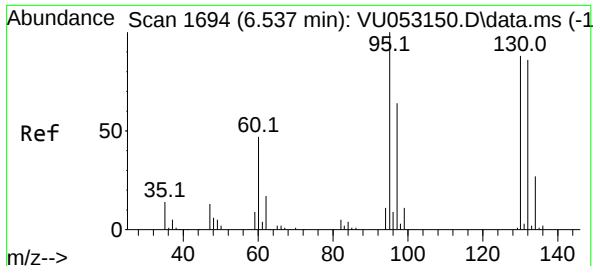
Tgt Ion: 62 Resp: 1372

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#





#37

Trichloroethene

Concen: 0.193 ug/l

RT: 6.534 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

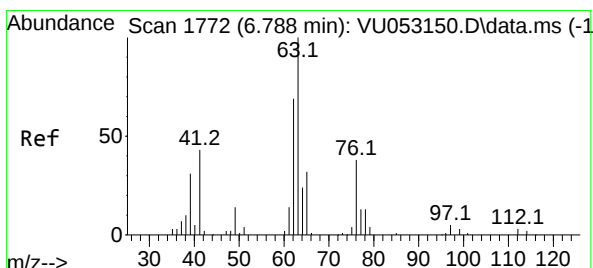
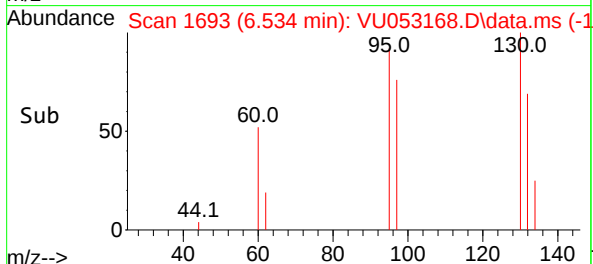
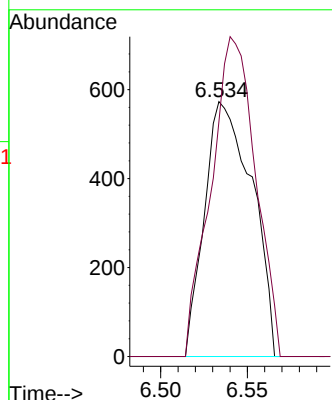
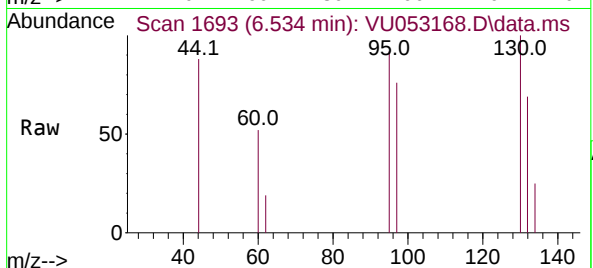
MDL-WATER-03-QT1-2023

Tgt Ion:130 Resp: 1089

Ion Ratio Lower Upper

130 100

95 92.1 91.1 136.7



#38

1,2-Dichloropropane

Concen: 0.181 ug/l

RT: 6.794 min Scan# 1774

Delta R.T. 0.006 min

Lab File: VU053168.D

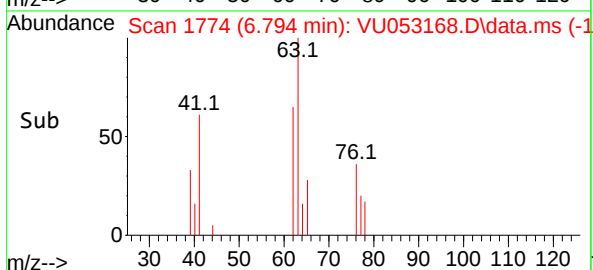
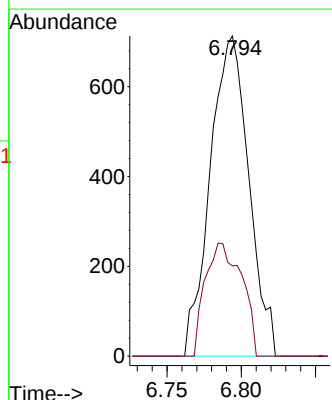
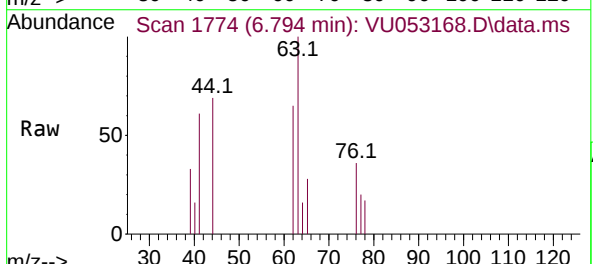
Acq: 28 Feb 2023 12:47

Tgt Ion: 63 Resp: 1289

Ion Ratio Lower Upper

63 100

65 28.2 25.5 38.3





#39

Methacrylonitrile

Concen: 0.098 ug/l

RT: 4.977 min Scan# 1158

Delta R.T. 0.003 min

Lab File: VU053168.D

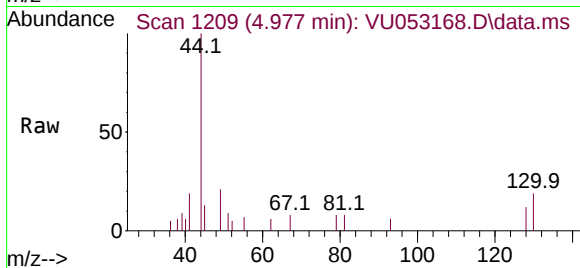
Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023



Tgt Ion: 41 Resp: 229

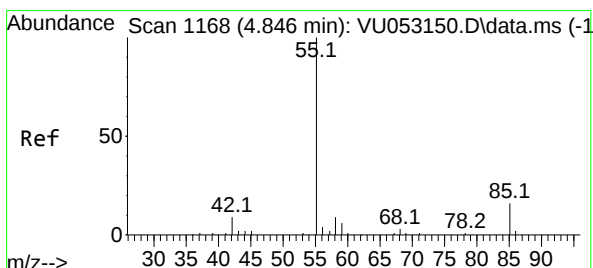
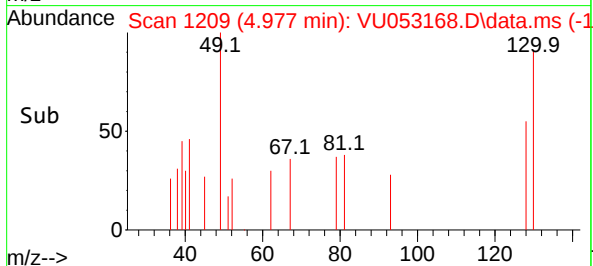
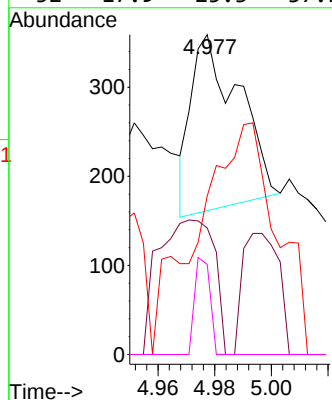
Ion Ratio Lower Upper

41 100

67 90.4 67.1 100.7

39 27.1 42.6 64.0#

52 17.9 25.3 37.9#



#40

Methyl acrylate

Concen: 0.072 ug/l

RT: 4.813 min Scan# 1158

Delta R.T. -0.032 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Tgt Ion: 55 Resp: 261

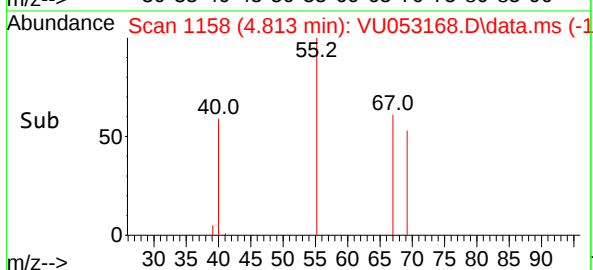
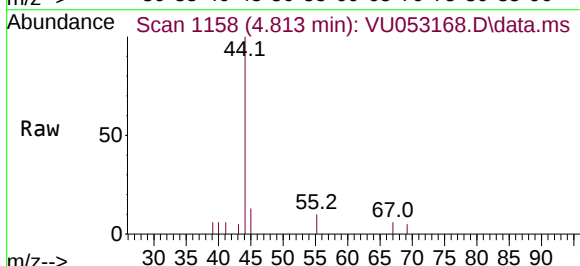
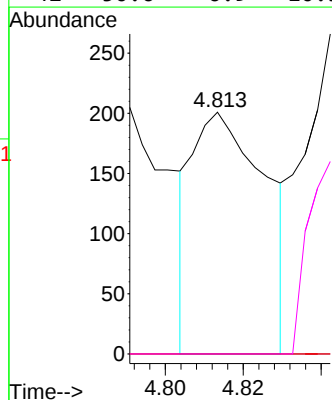
Ion Ratio Lower Upper

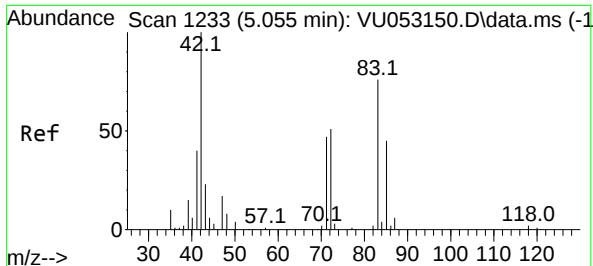
55 100

85 0.0 13.5 20.3#

58 18.0 7.3 10.9#

42 50.6 6.9 10.3#





#41

Tetrahydrofuran

Concen: 0.622 ug/l

RT: 5.074 min Scan# 1

Delta R.T. 0.019 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

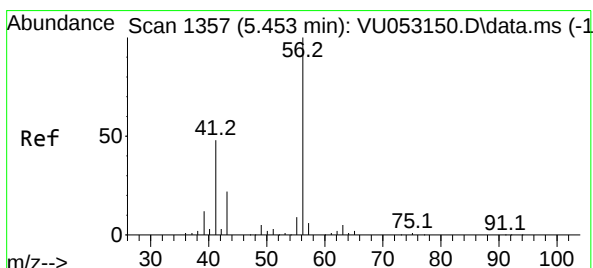
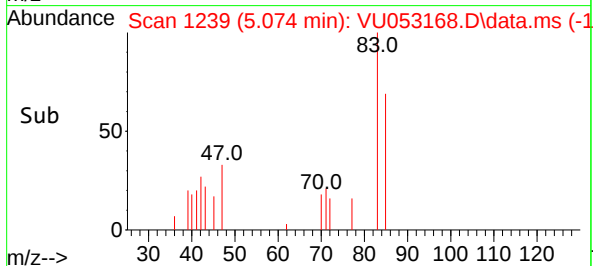
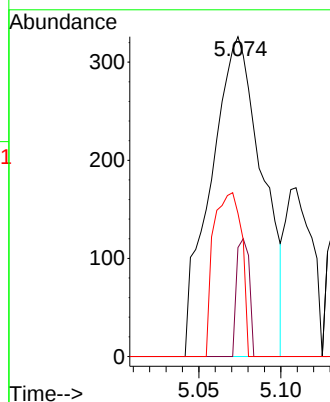
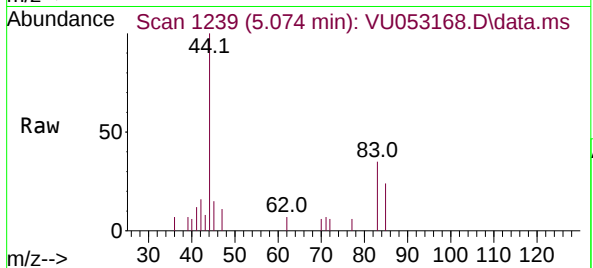
Tgt Ion: 42 Resp: 711

Ion Ratio Lower Upper

42 100

72 9.0 41.6 62.4#

71 27.7 37.9 56.9#



#42

1-Chlorobutane

Concen: 0.211 ug/l

RT: 5.456 min Scan# 1358

Delta R.T. 0.003 min

Lab File: VU053168.D

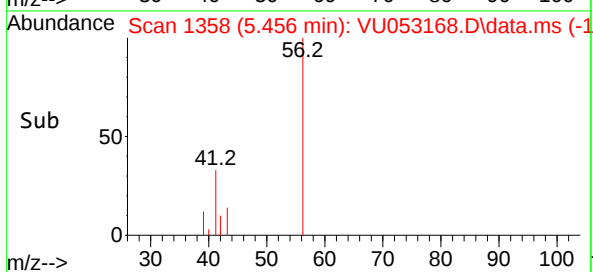
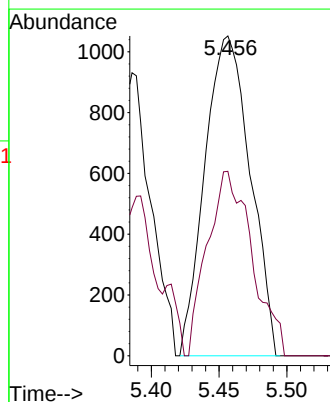
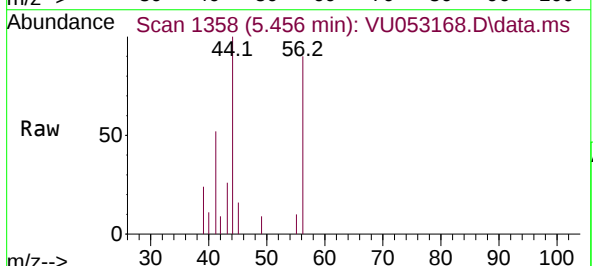
Acq: 28 Feb 2023 12:47

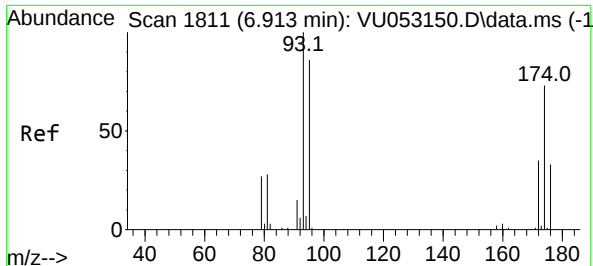
Tgt Ion: 56 Resp: 2453

Ion Ratio Lower Upper

56 100

41 56.7 23.7 71.1

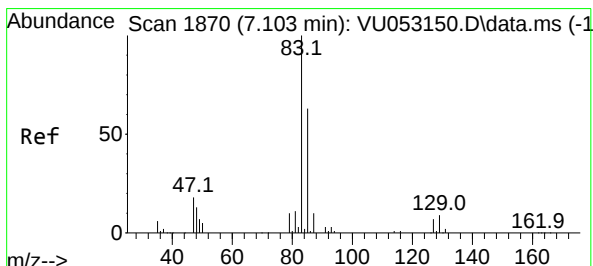
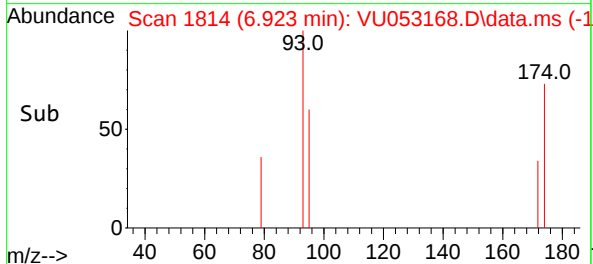
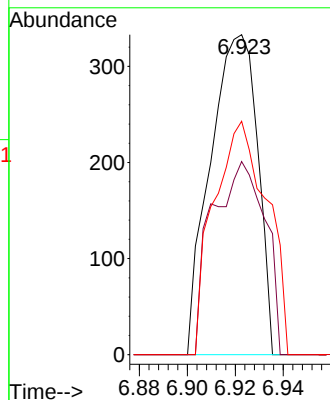
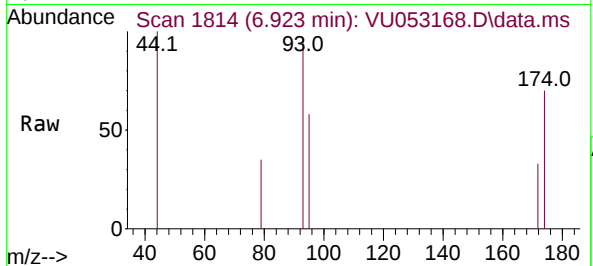




#43  
Dibromomethane  
Concen: 0.145 ug/l  
RT: 6.923 min Scan# 1814  
Delta R.T. 0.010 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

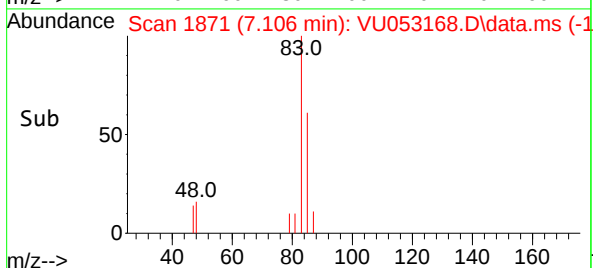
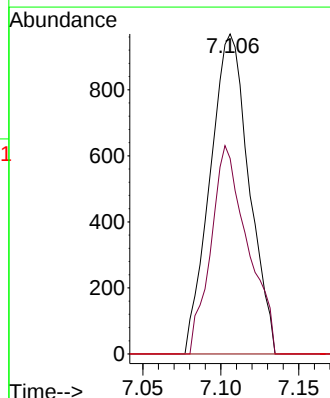
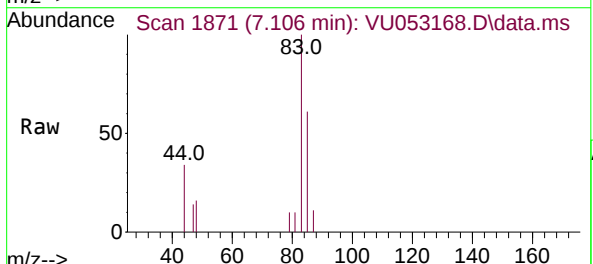
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

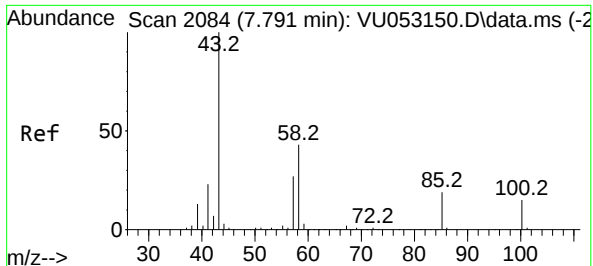
|             |       |       |      |
|-------------|-------|-------|------|
| Tgt Ion: 93 | Resp: | 456   |      |
| Ion Ratio   | Lower | Upper |      |
| 93          | 100   |       |      |
| 95          | 67.5  | 66.5  | 99.7 |
| 174         | 81.8  | 58.2  | 87.4 |



#44  
Bromodichloromethane  
Concen: 0.195 ug/l  
RT: 7.106 min Scan# 1871  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

|             |       |       |      |
|-------------|-------|-------|------|
| Tgt Ion: 83 | Resp: | 1686  |      |
| Ion Ratio   | Lower | Upper |      |
| 83          | 100   |       |      |
| 85          | 61.1  | 50.6  | 75.8 |
| 127         | 0.0   | 5.8   | 8.8# |





#45

4-Methyl-2-Pentanone

Concen: 1.003 ug/l

RT: 7.800 min Scan# 2084

Delta R.T. 0.010 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

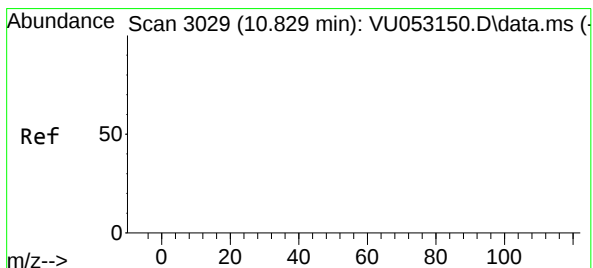
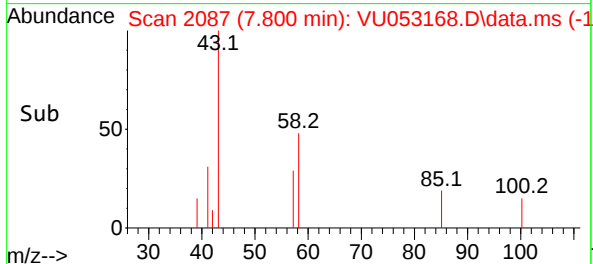
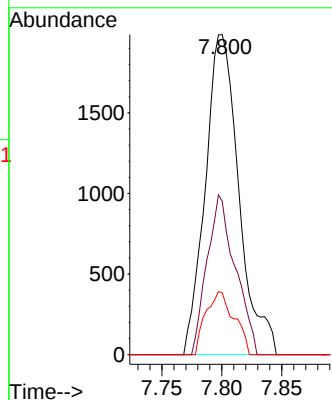
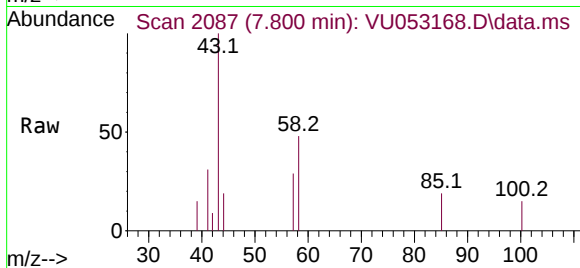
Tgt Ion: 43 Resp: 3863

Ion Ratio Lower Upper

43 100

58 42.0 22.0 66.0

85 16.6 15.7 23.5



#46

t-1,4-Dichloro-2-butene

Concen: 0.182 ug/l

RT: 10.816 min Scan# 3025

Delta R.T. -0.013 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Tgt Ion: 75 Resp: 354

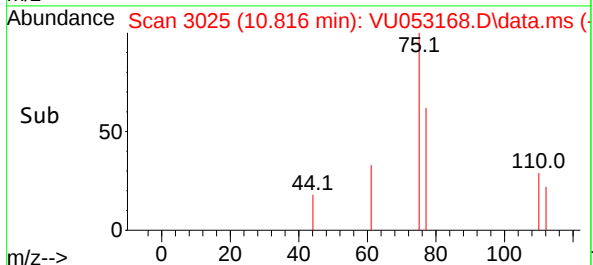
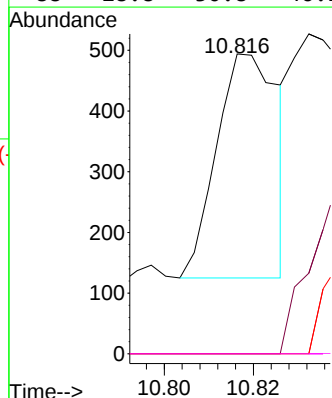
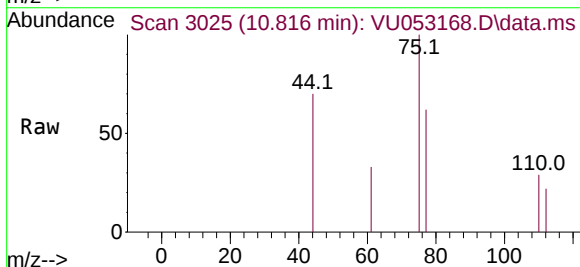
Ion Ratio Lower Upper

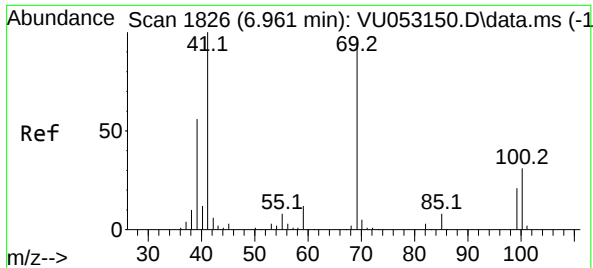
75 100

53 92.9 57.0 85.4#

89 62.1 43.1 64.7

88 28.8 30.8 46.2#





#47

Methyl methacrylate

Concen: 0.380 ug/l

RT: 6.964 min Scan# 1826

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

Tgt Ion: 69 Resp: 1234

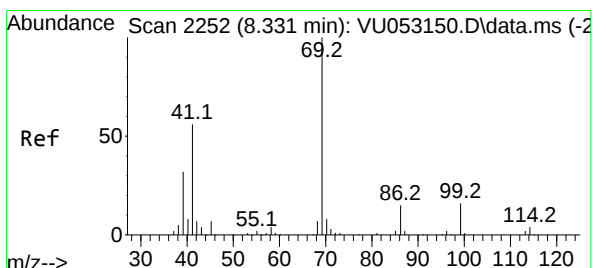
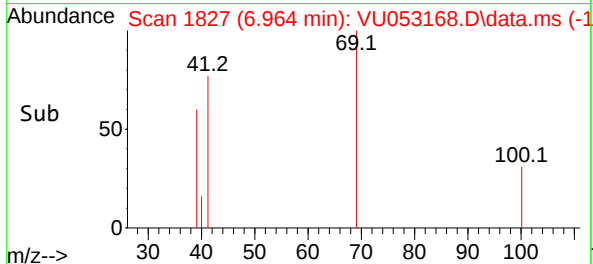
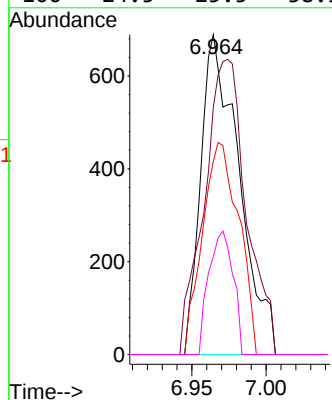
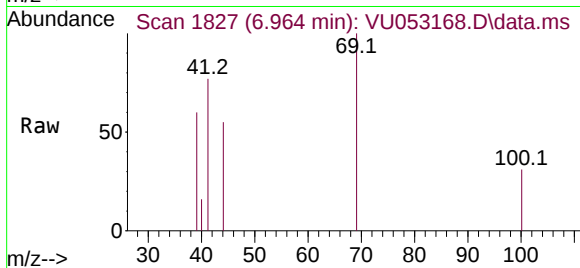
Ion Ratio Lower Upper

69 100

41 101.5 0.0 201.0

39 62.9 47.1 70.7

100 24.5 25.5 38.3#



#48

Ethyl methacrylate

Concen: 0.171 ug/l

RT: 8.337 min Scan# 2254

Delta R.T. 0.006 min

Lab File: VU053168.D

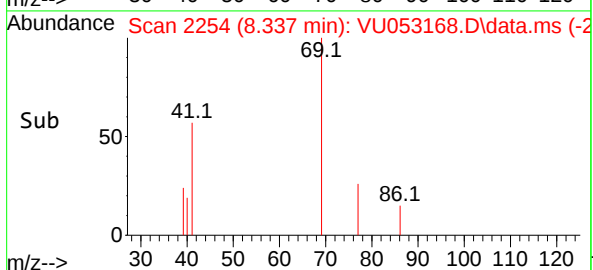
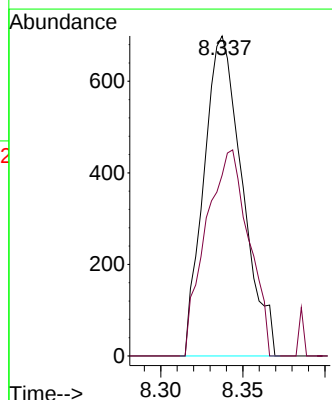
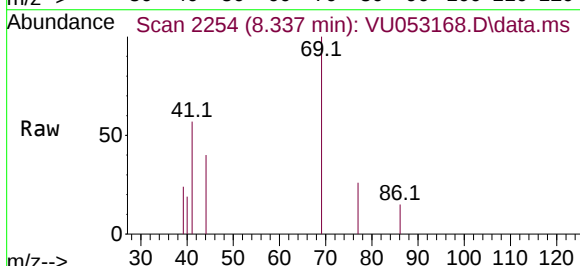
Acq: 28 Feb 2023 12:47

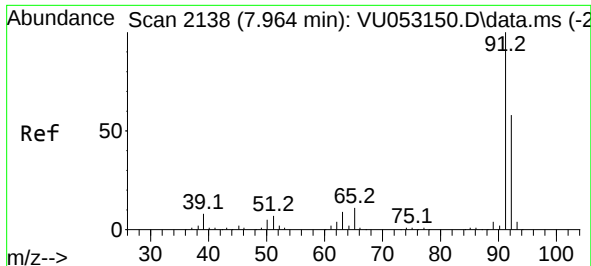
Tgt Ion: 69 Resp: 1138

Ion Ratio Lower Upper

69 100

41 71.8 28.2 84.6





#49

Toluene

Concen: 0.183 ug/l

RT: 7.964 min Scan# 2138

Delta R.T. -0.000 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

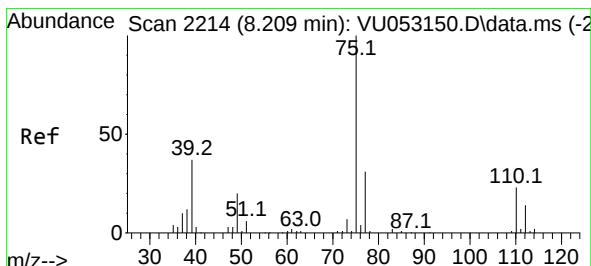
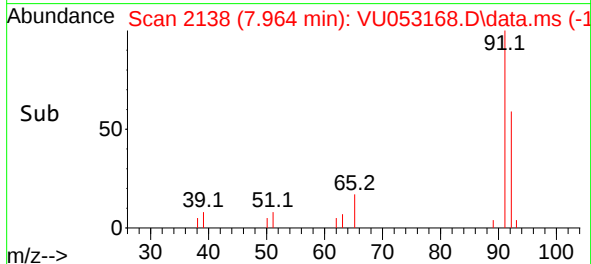
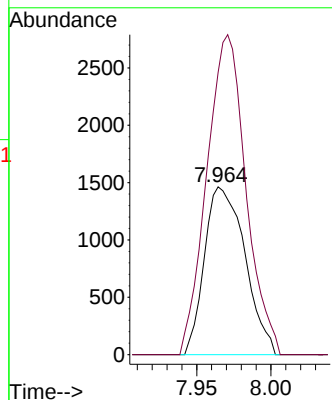
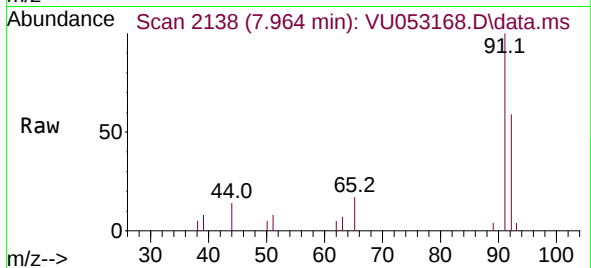
MDL-WATER-03-QT1-2023

Tgt Ion: 92 Resp: 2766

Ion Ratio Lower Upper

92 100

91 184.9 138.2 207.2



#50

t-1,3-Dichloropropene

Concen: 0.179 ug/l

RT: 8.209 min Scan# 2214

Delta R.T. 0.000 min

Lab File: VU053168.D

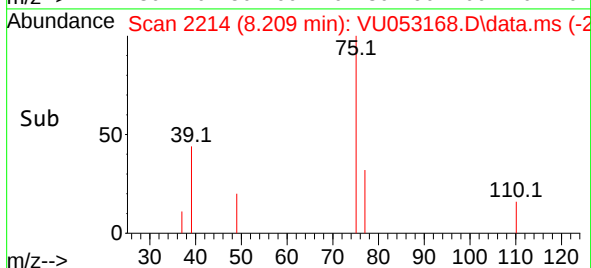
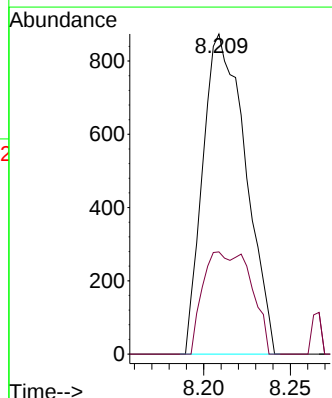
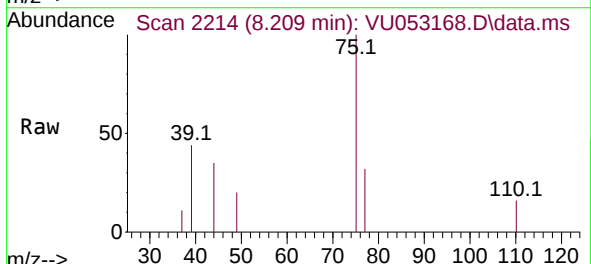
Acq: 28 Feb 2023 12:47

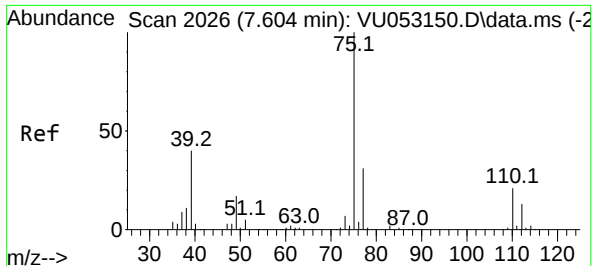
Tgt Ion: 75 Resp: 1500

Ion Ratio Lower Upper

75 100

77 31.9 25.1 37.7





#51

cis-1,3-Dichloropropene

Concen: 0.166 ug/l

RT: 7.604 min Scan# 2026

Delta R.T. -0.000 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

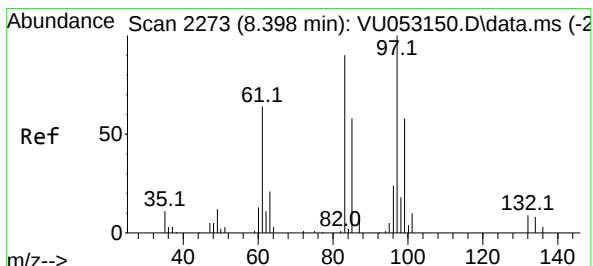
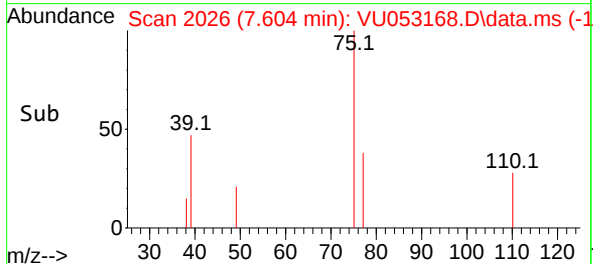
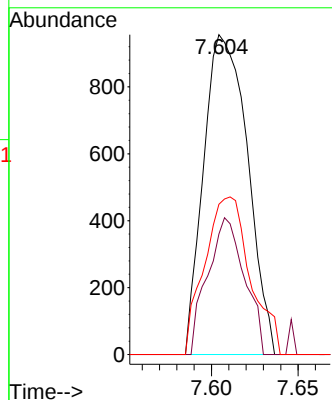
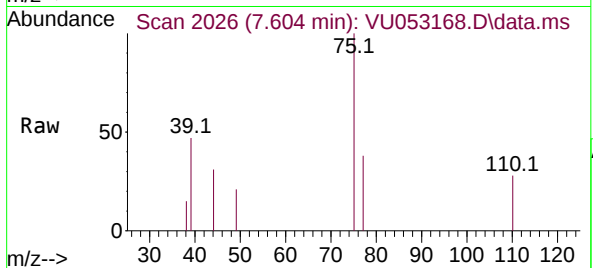
Tgt Ion: 75 Resp: 1682

Ion Ratio Lower Upper

75 100

77 37.7 24.9 37.3#

39 47.0 32.2 48.2



#52

1,1,2-Trichloroethane

Concen: 0.193 ug/l

RT: 8.398 min Scan# 2273

Delta R.T. -0.000 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Tgt Ion: 97 Resp: 894

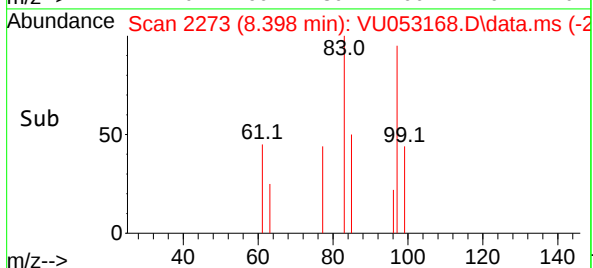
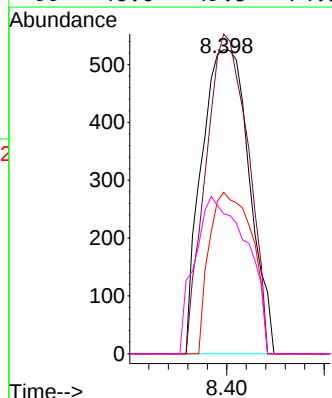
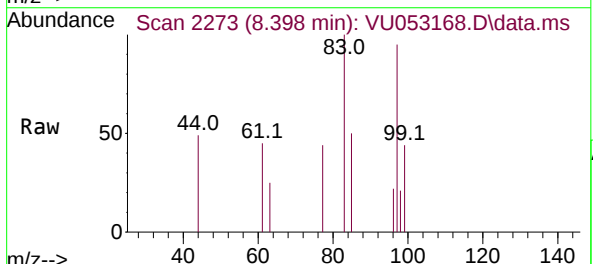
Ion Ratio Lower Upper

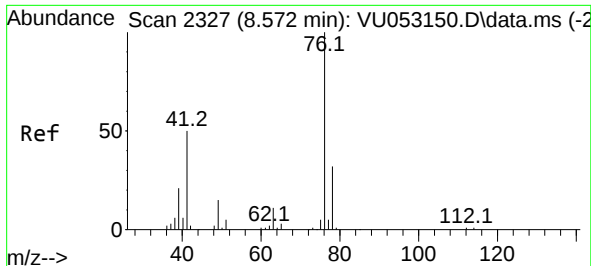
97 100

83 105.1 71.9 107.9

85 53.0 46.5 69.7

99 46.0 49.5 74.3#





#53

1,3-Dichloropropane

Concen: 0.196 ug/l

RT: 8.575 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

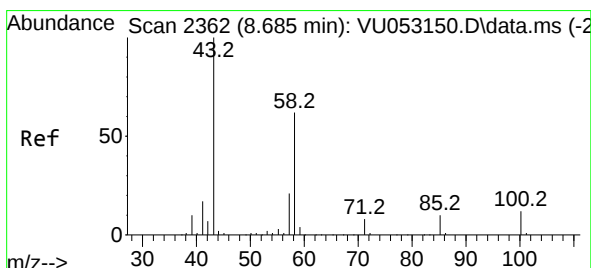
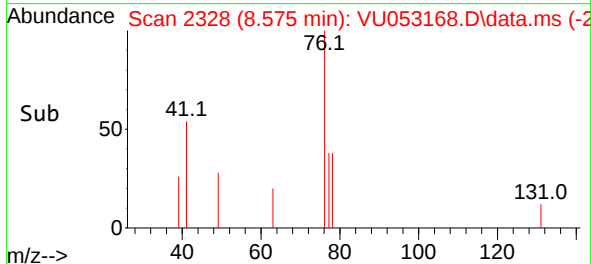
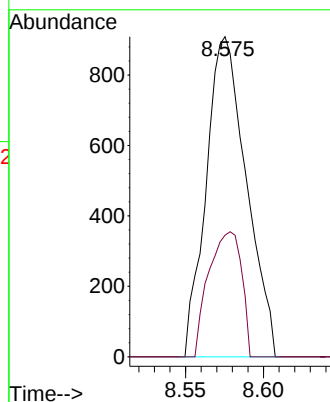
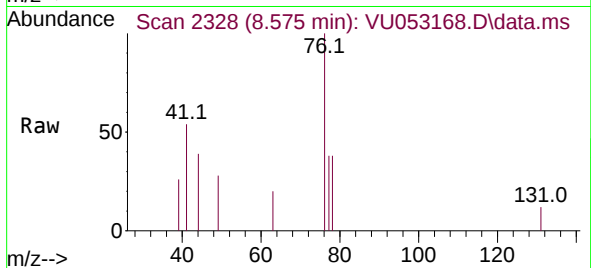
MDL-WATER-03-QT1-2023

Tgt Ion: 76 Resp: 1628

Ion Ratio Lower Upper

76 100

78 31.8 25.9 38.9



#54

2-Hexanone

Concen: 0.973 ug/l

RT: 8.694 min Scan# 2365

Delta R.T. 0.010 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

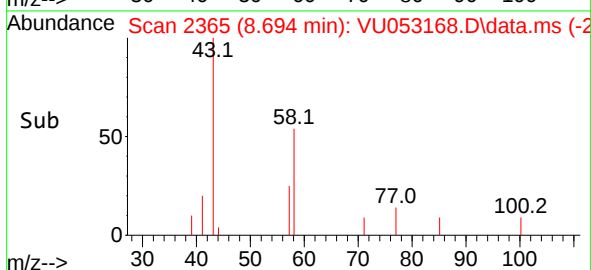
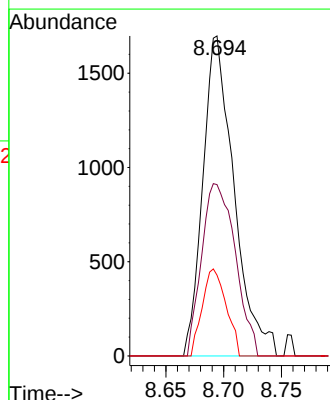
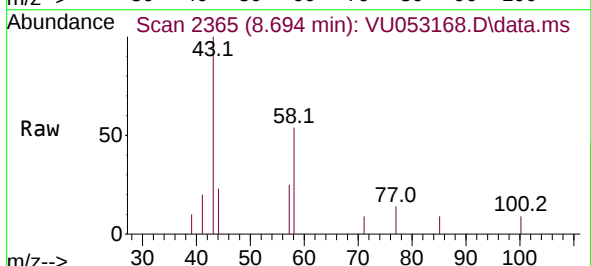
Tgt Ion: 43 Resp: 3191

Ion Ratio Lower Upper

43 100

58 58.0 42.0 82.0

57 20.8 1.2 41.2

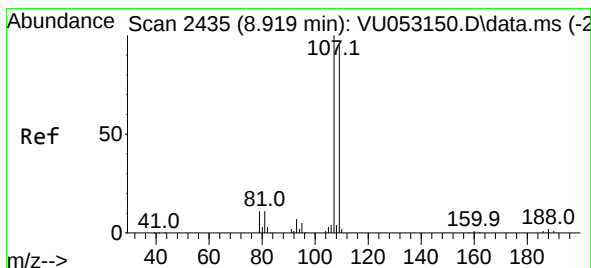
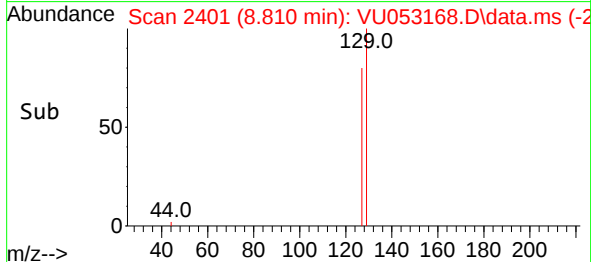
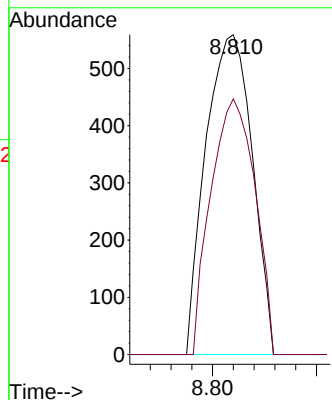
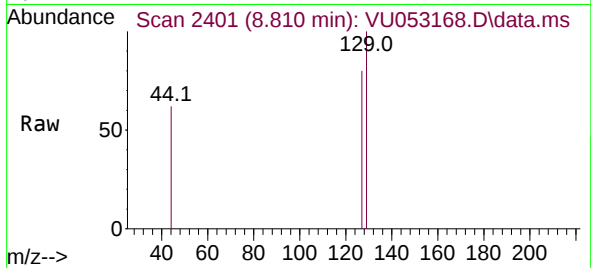




#55  
Dibromochloromethane  
Concen: 0.164 ug/l  
RT: 8.810 min Scan# 2401  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

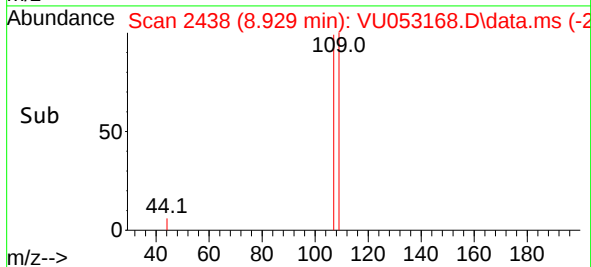
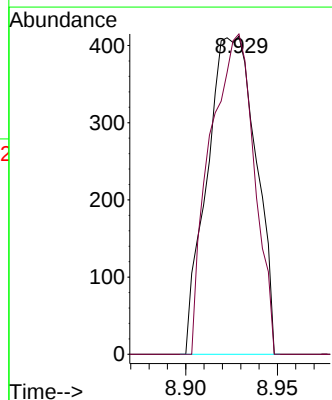
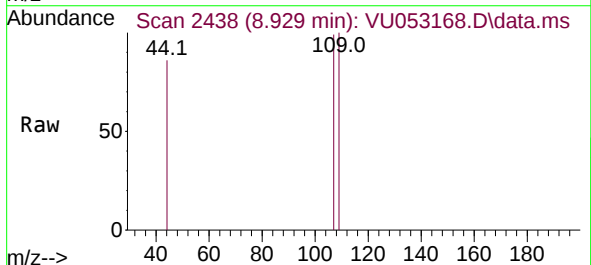
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

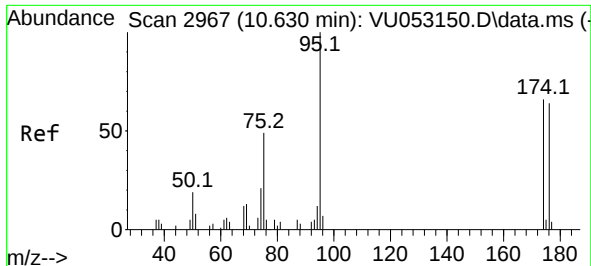
Tgt Ion:129 Resp: 869  
Ion Ratio Lower Upper  
129 100  
127 76.1 61.1 91.7



#56  
1,2-Dibromoethane  
Concen: 0.185 ug/l  
RT: 8.929 min Scan# 2438  
Delta R.T. 0.010 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:107 Resp: 762  
Ion Ratio Lower Upper  
107 100  
109 91.2 0.0 186.2





#57

4-Bromofluorobenzene

Concen: 0.950 ug/l

RT: 10.633 min Scan# 2967

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

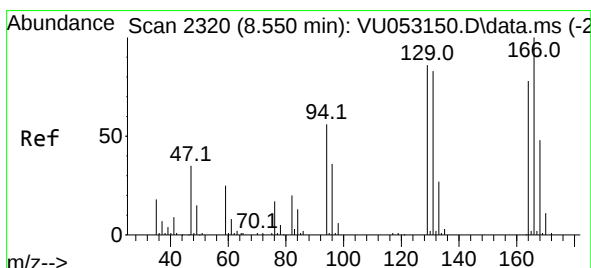
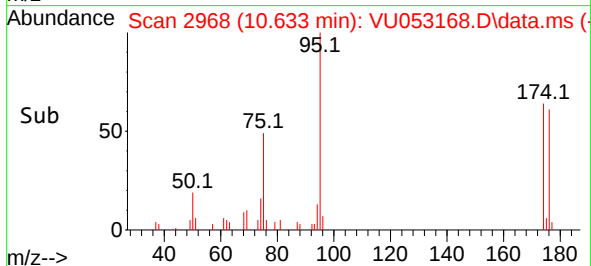
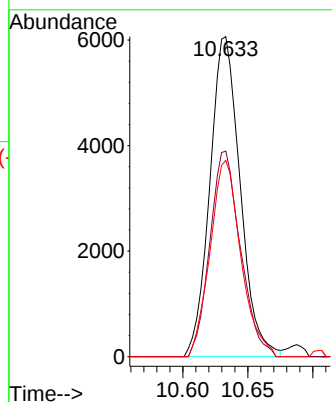
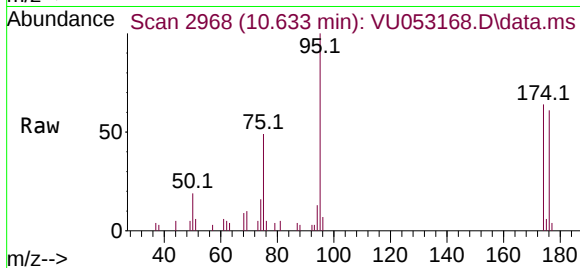
Tgt Ion: 95 Resp: 9847

Ion Ratio Lower Upper

95 100

174 64.6 50.7 76.1

176 62.1 47.8 71.6



#58

Tetrachloroethene

Concen: 0.203 ug/l

RT: 8.550 min Scan# 2320

Delta R.T. -0.000 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Tgt Ion: 164 Resp: 912

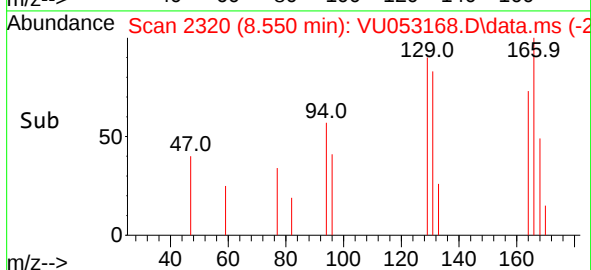
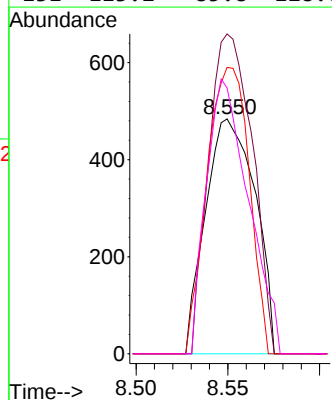
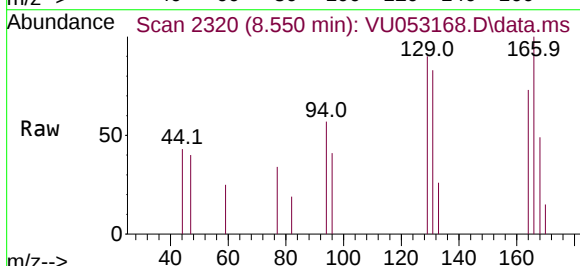
Ion Ratio Lower Upper

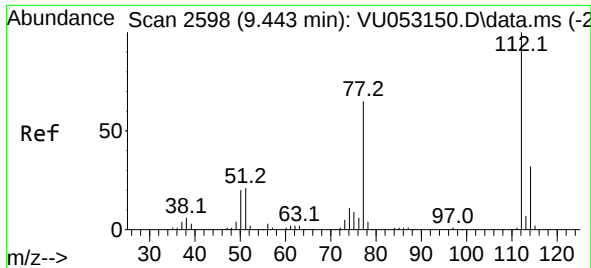
164 100

166 136.2 103.2 154.8

129 121.9 88.8 133.2

131 113.2 85.8 128.6

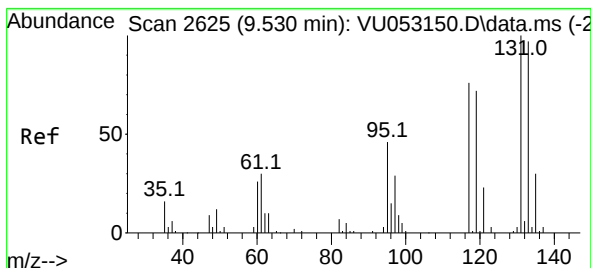
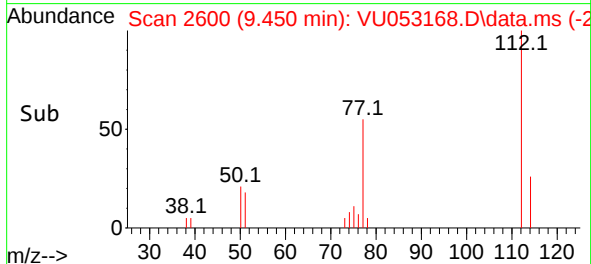
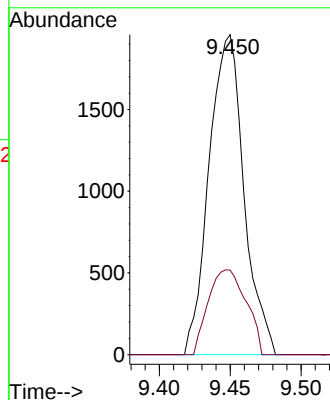
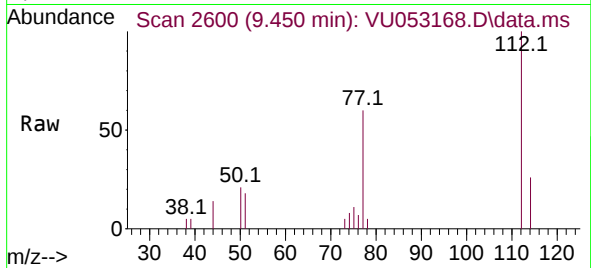




#59  
Chlorobenzene  
Concen: 0.198 ug/l  
RT: 9.450 min Scan# 2600  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

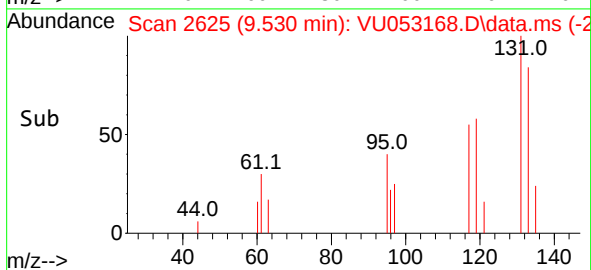
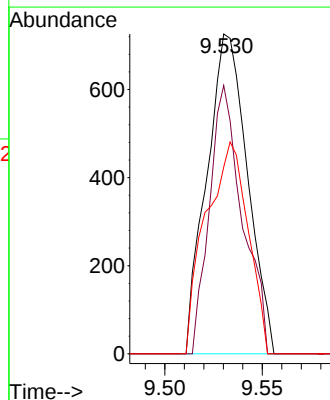
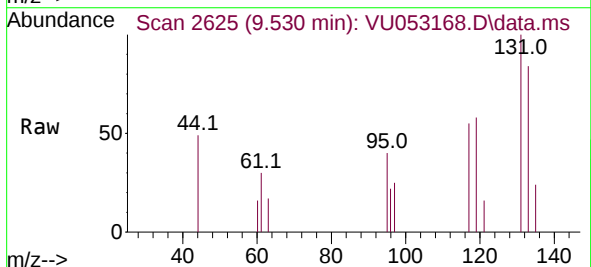
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

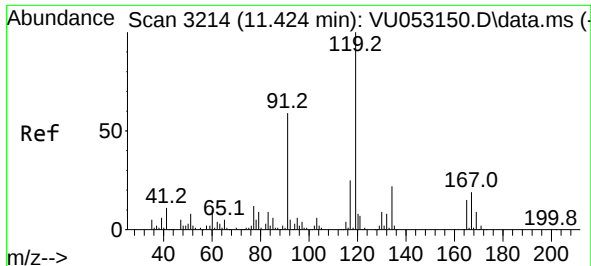
Tgt Ion:112 Resp: 3351  
Ion Ratio Lower Upper  
112 100  
114 26.5 25.8 38.6



#60  
1,1,1,2-Tetrachloroethane  
Concen: 0.188 ug/l  
RT: 9.530 min Scan# 2625  
Delta R.T. -0.000 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:131 Resp: 1052  
Ion Ratio Lower Upper  
131 100  
133 68.2 76.7 115.1#  
119 68.5 57.6 86.4

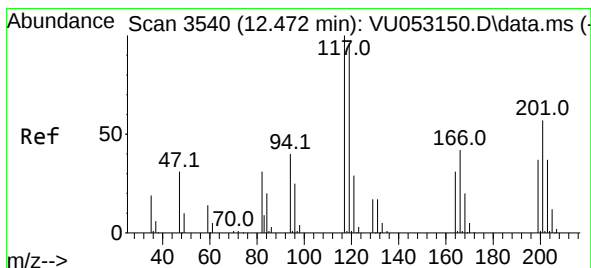
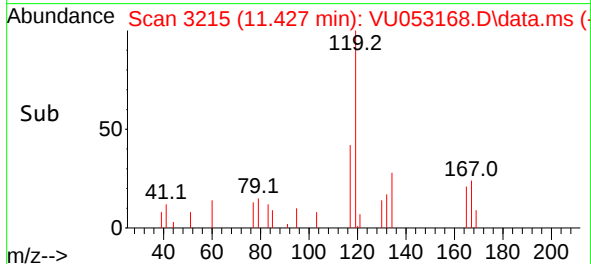
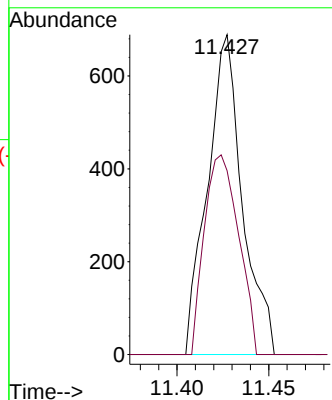
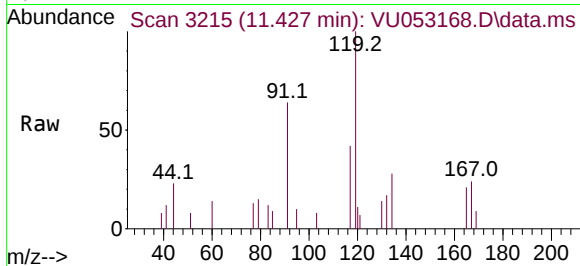




#61  
 Pentachloroethane  
 Concen: 0.187 ug/l  
 RT: 11.427 min Scan# 311  
 Delta R.T. 0.003 min  
 Lab File: VU053168.D  
 Acq: 28 Feb 2023 12:47

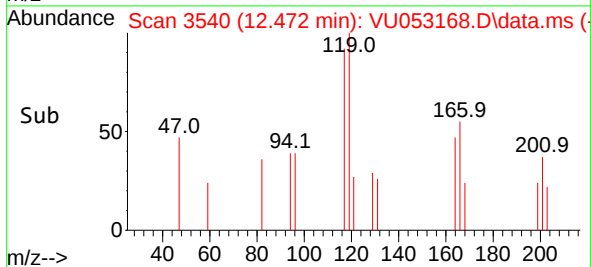
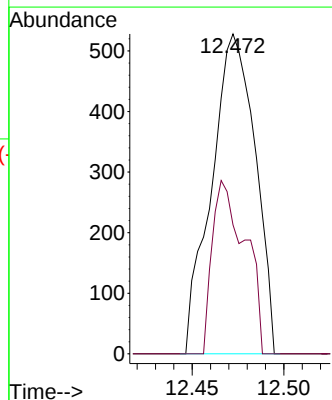
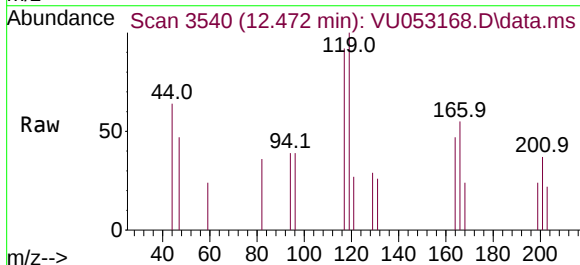
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT1-2023

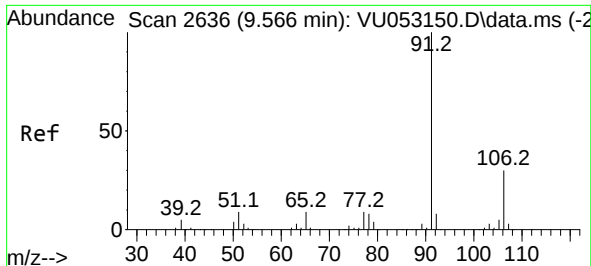
Tgt Ion:117 Resp: 911  
 Ion Ratio Lower Upper  
 117 100  
 167 61.1 57.5 86.3



#62  
 Hexachloroethane  
 Concen: 0.163 ug/l  
 RT: 12.472 min Scan# 3540  
 Delta R.T. -0.000 min  
 Lab File: VU053168.D  
 Acq: 28 Feb 2023 12:47

Tgt Ion:117 Resp: 875  
 Ion Ratio Lower Upper  
 117 100  
 201 40.7 46.7 70.1#





#63

Ethyl Benzene

Concen: 0.194 ug/l

RT: 9.569 min Scan# 2

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

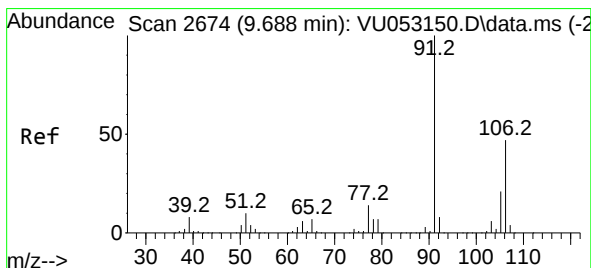
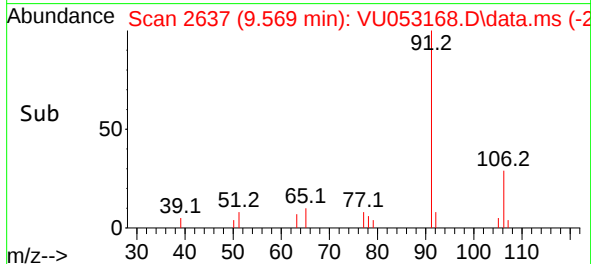
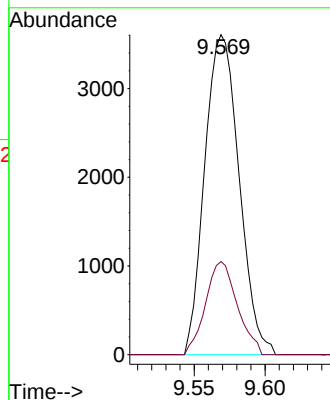
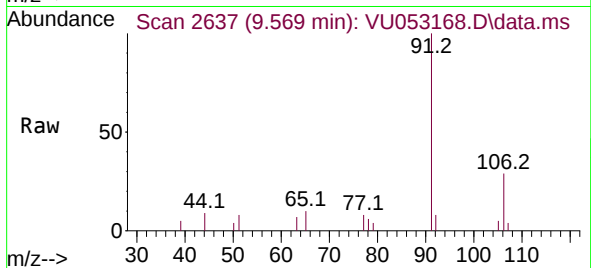
MDL-WATER-03-QT1-2023

Tgt Ion: 91 Resp: 6081

Ion Ratio Lower Upper

91 100

106 29.1 24.0 36.0



#64

m/p-Xylenes

Concen: 0.374 ug/l

RT: 9.694 min Scan# 2676

Delta R.T. 0.006 min

Lab File: VU053168.D

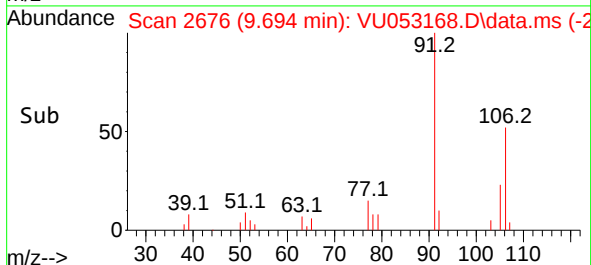
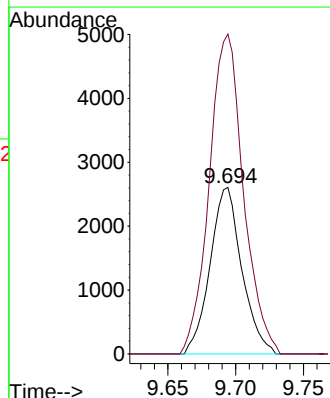
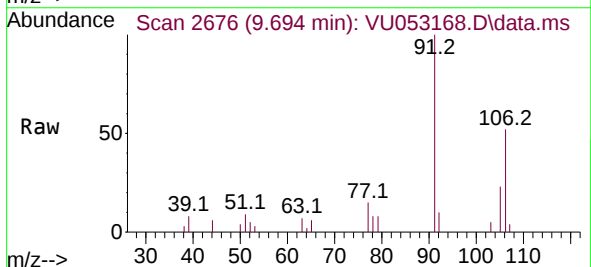
Acq: 28 Feb 2023 12:47

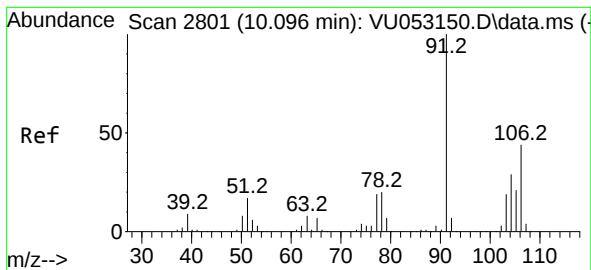
Tgt Ion: 106 Resp: 4241

Ion Ratio Lower Upper

106 100

91 207.0 170.7 256.1





#65

o-Xylene

Concen: 0.165 ug/l

RT: 10.099 min Scan# 2801

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

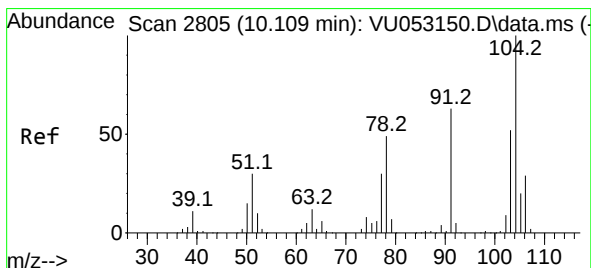
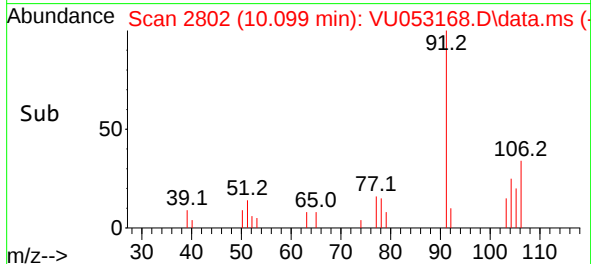
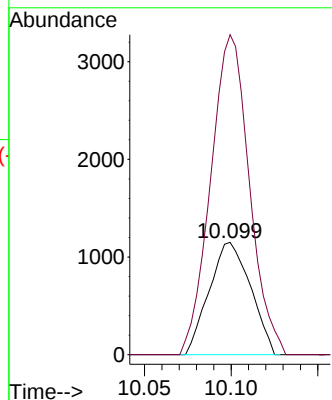
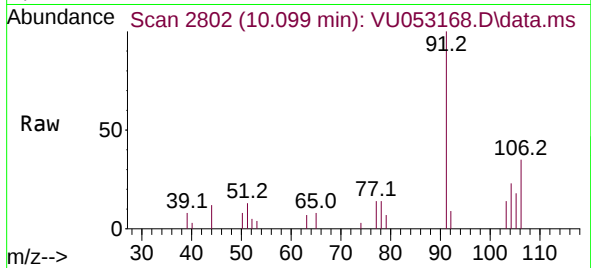
MDL-WATER-03-QT1-2023

Tgt Ion:106 Resp: 1909

Ion Ratio Lower Upper

106 100

91 266.9 112.8 338.4



#66

Styrene

Concen: 0.173 ug/l

RT: 10.115 min Scan# 2807

Delta R.T. 0.006 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

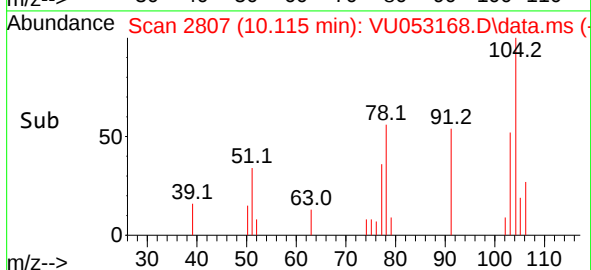
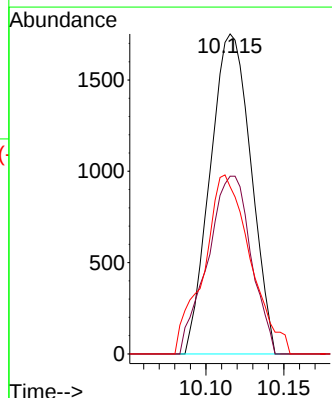
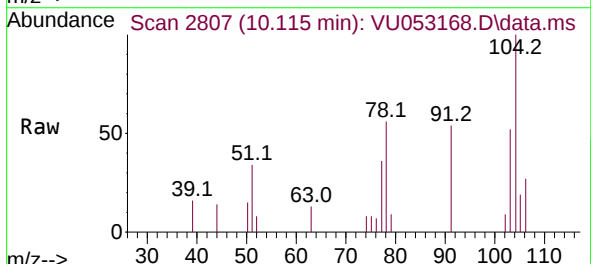
Tgt Ion:104 Resp: 3182

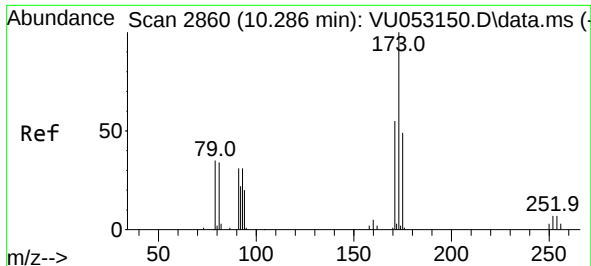
Ion Ratio Lower Upper

104 100

78 59.2 43.3 64.9

103 63.7 45.2 67.8

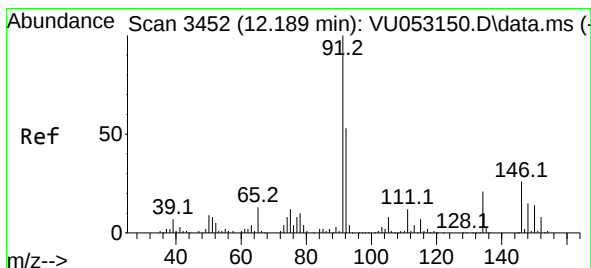
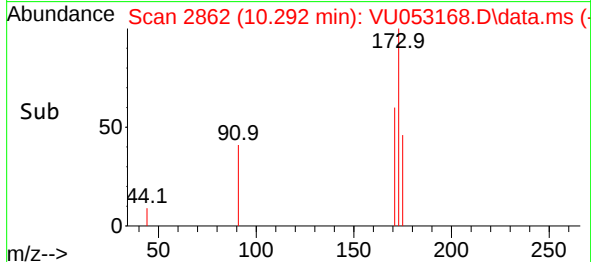
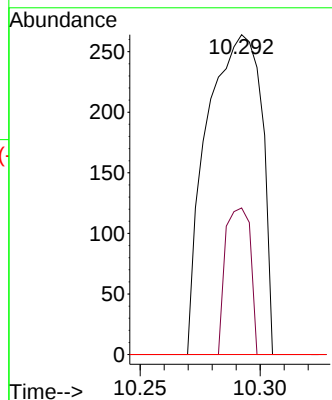
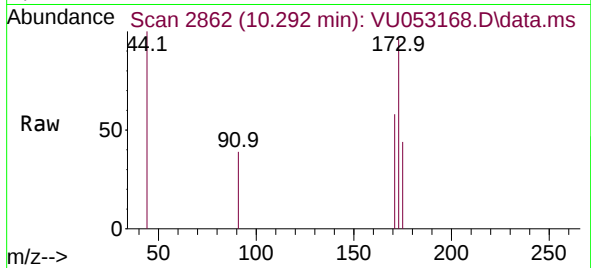




#67  
Bromoform  
Concen: 0.163 ug/l  
RT: 10.292 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

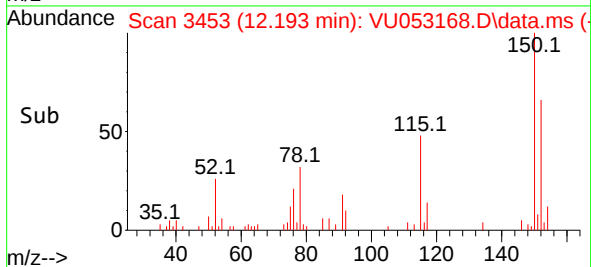
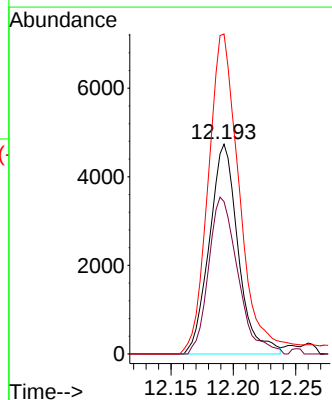
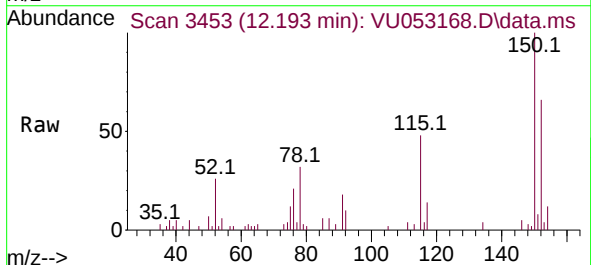
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

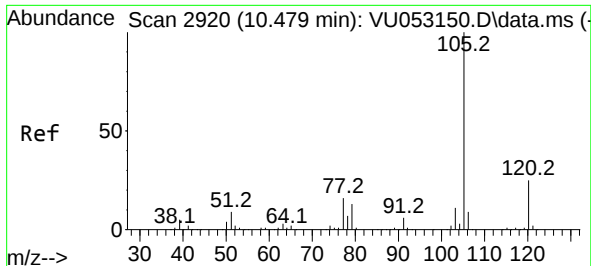
Tgt Ion:173 Resp: 418  
Ion Ratio Lower Upper  
173 100  
175 21.1 38.7 58.1#  
254 0.0 5.8 8.8#



#68  
1,2-Dichlorobenzene-d4  
Concen: 0.929 ug/l  
RT: 12.193 min Scan# 3453  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:152 Resp: 7637  
Ion Ratio Lower Upper  
152 100  
115 75.6 0.0 267.8  
150 169.7 0.0 623.0





#69

Isopropylbenzene

Concen: 0.190 ug/l

RT: 10.482 min Scan# 2920

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

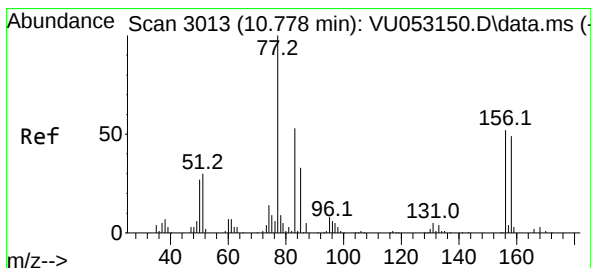
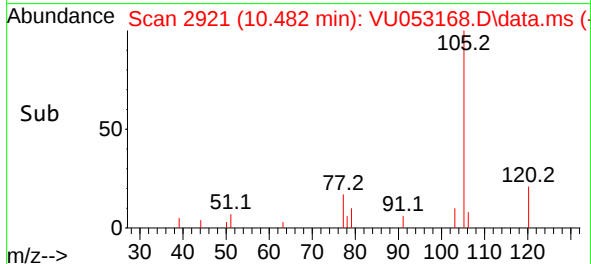
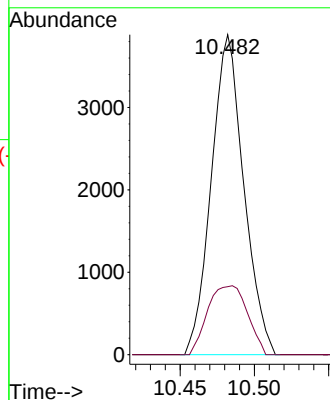
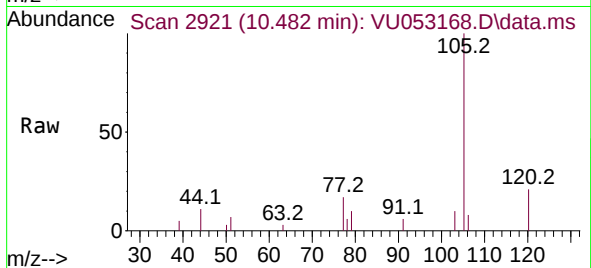
MDL-WATER-03-QT1-2023

Tgt Ion:105 Resp: 5896

Ion Ratio Lower Upper

105 100

120 26.3 12.6 37.6



#70

1,1,2,2-Tetrachloroethane

Concen: 0.197 ug/l

RT: 10.778 min Scan# 3013

Delta R.T. -0.000 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

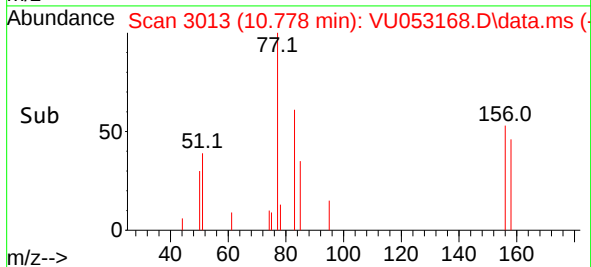
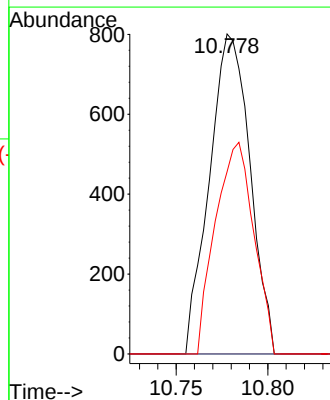
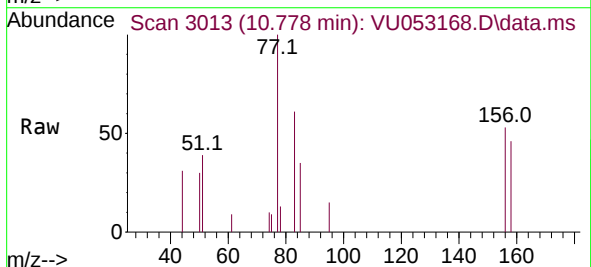
Tgt Ion: 83 Resp: 1233

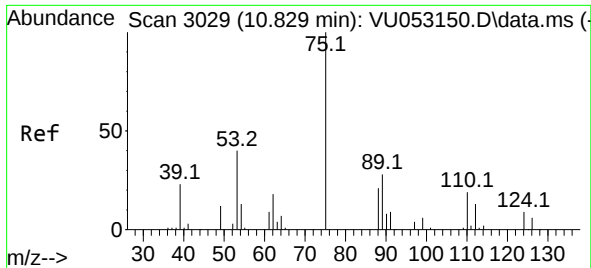
Ion Ratio Lower Upper

83 100

131 0.0 6.6 9.8#

85 62.6 49.3 73.9

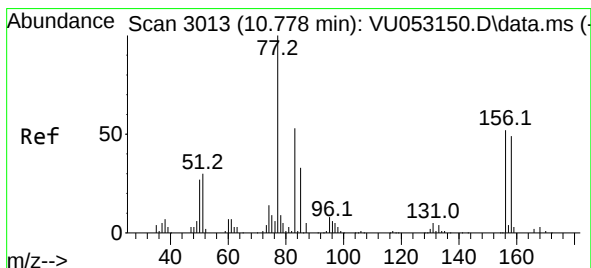
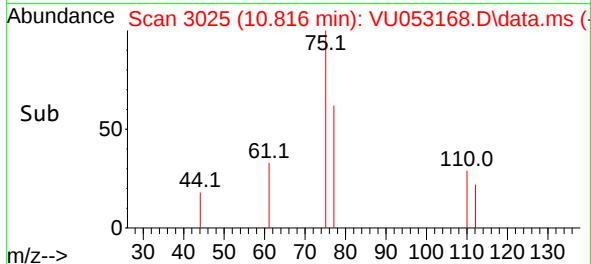
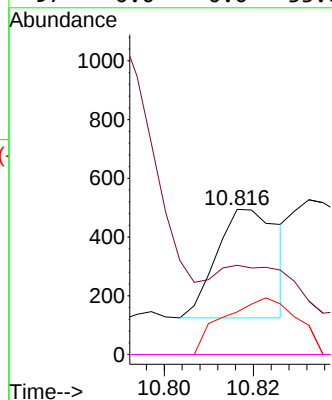
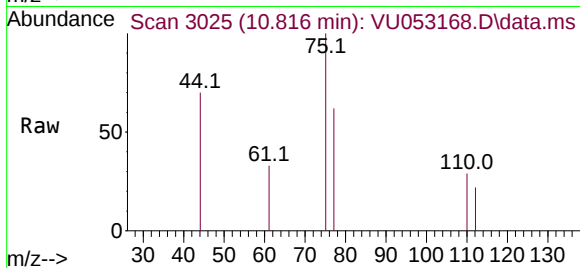




#71  
1,2,3-Trichloropropane  
Concen: 0.066 ug/l  
RT: 10.816 min Scan# 3025  
Delta R.T. -0.013 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

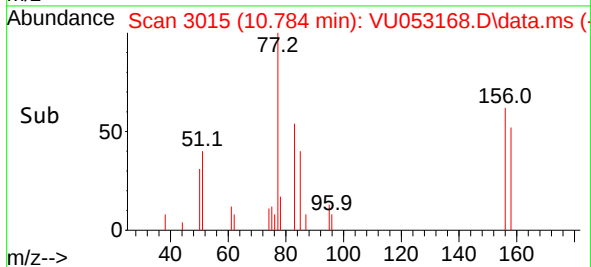
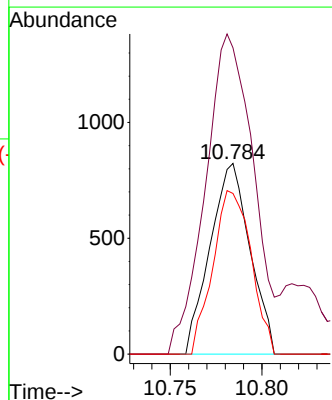
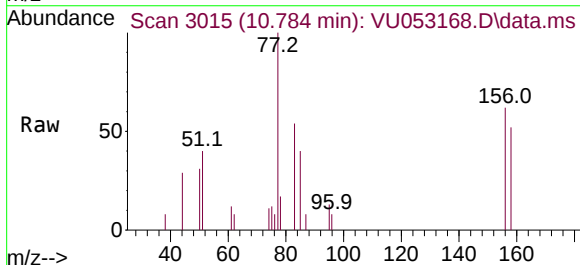
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

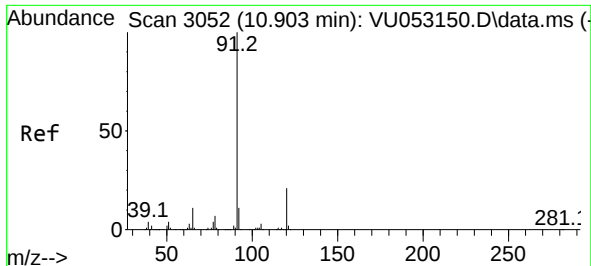
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 354         |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 77          | 704.2 | 0.0 98.2#   |
| 110         | 62.4  | 0.0 57.0#   |
| 97          | 0.0   | 0.0 33.6    |



#72  
Bromobenzene  
Concen: 0.207 ug/l  
RT: 10.784 min Scan# 3015  
Delta R.T. 0.006 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 156 | Resp: | 1245        |
| Ion          | Ratio | Lower Upper |
| 156          | 100   |             |
| 77           | 200.2 | 0.0 397.0   |
| 158          | 82.2  | 0.0 189.2   |

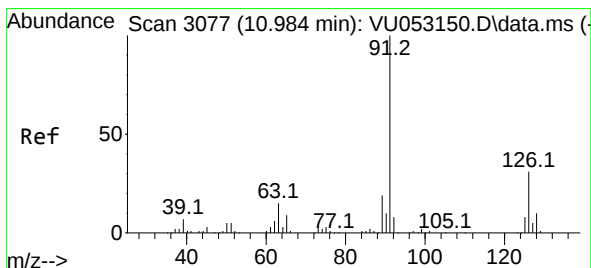
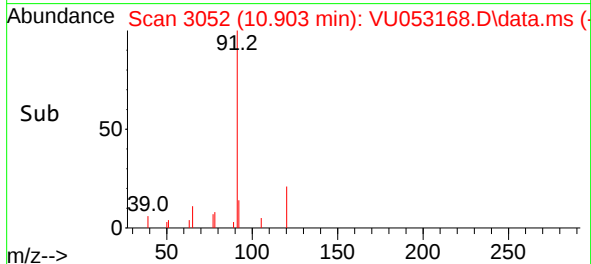
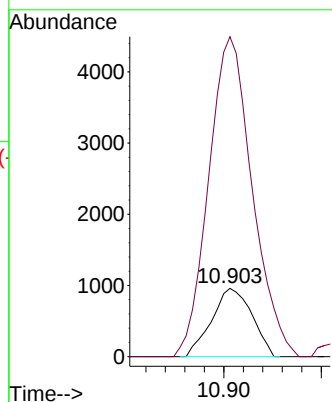
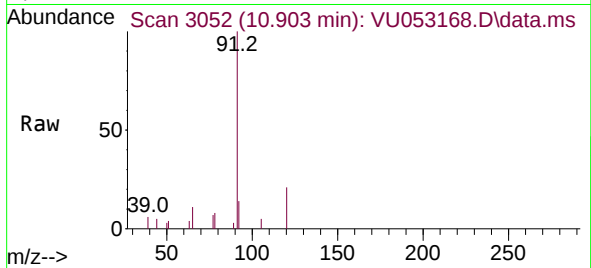




#73  
n-propylbenzene  
Concen: 0.167 ug/l  
RT: 10.903 min Scan# 3052  
Delta R.T. -0.000 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

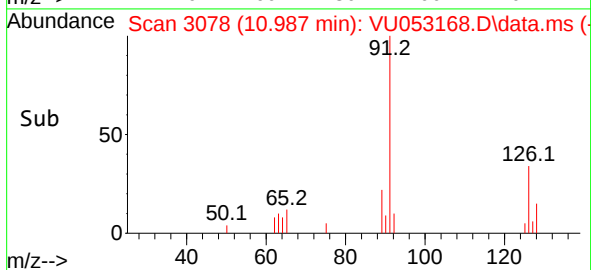
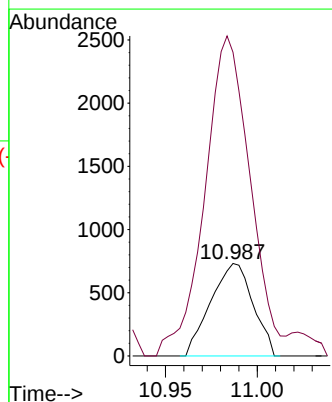
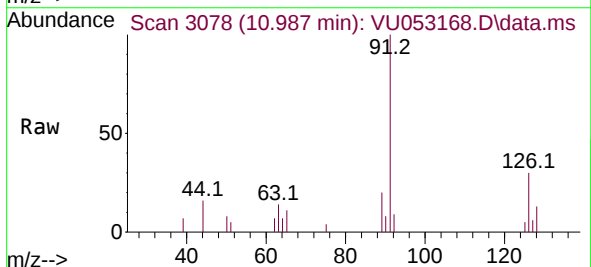
Instrument : MSVOA\_U  
ClientSampleId : MDL-WATER-03-QT1-2023

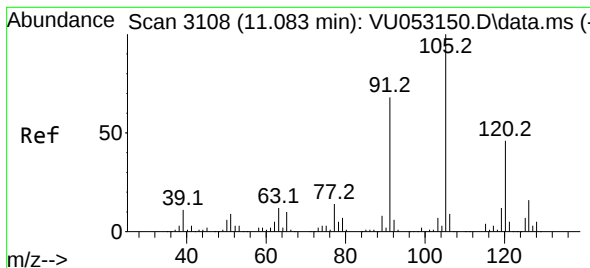
Tgt Ion:120 Resp: 1377  
Ion Ratio Lower Upper  
120 100  
91 506.7 372.5 558.7



#74  
2-Chlorotoluene  
Concen: 0.172 ug/l  
RT: 10.987 min Scan# 3078  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:126 Resp: 1173  
Ion Ratio Lower Upper  
126 100  
91 370.3 0.0 658.6





#75

1,3,5-Trimethylbenzene

Concen: 0.190 ug/l

RT: 11.086 min Scan# 3108

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

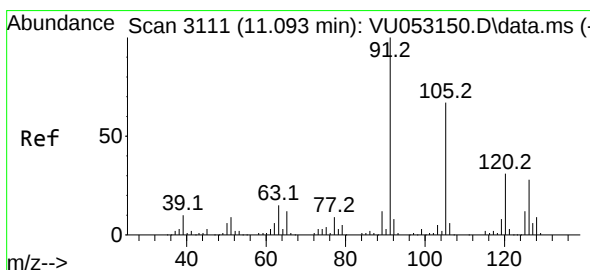
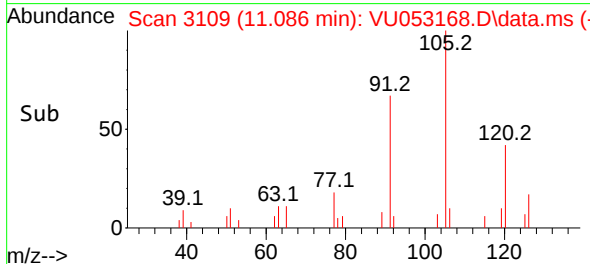
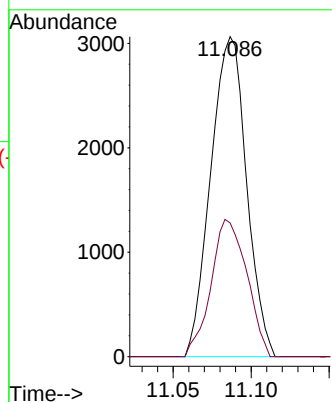
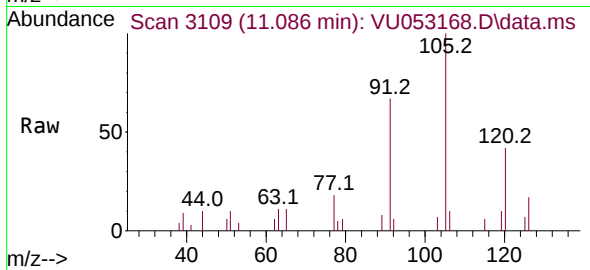
MDL-WATER-03-QT1-2023

Tgt Ion:105 Resp: 4904

Ion Ratio Lower Upper

105 100

120 42.8 36.5 54.7



#76

4-Chlorotoluene

Concen: 0.217 ug/l

RT: 11.096 min Scan# 3112

Delta R.T. 0.003 min

Lab File: VU053168.D

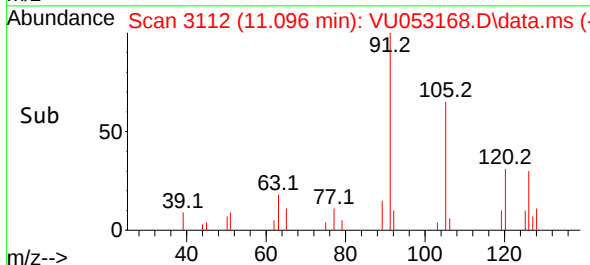
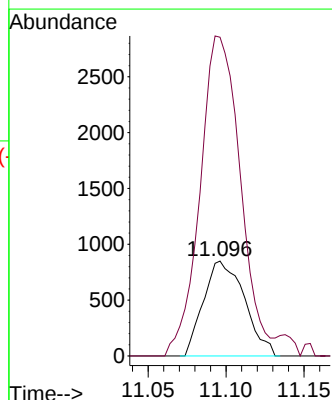
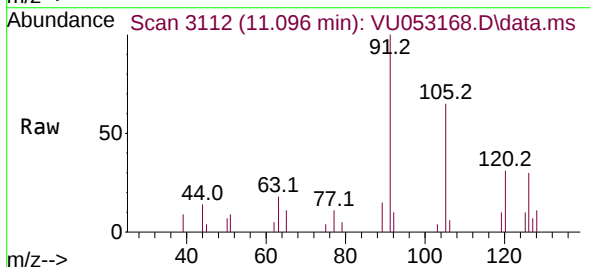
Acq: 28 Feb 2023 12:47

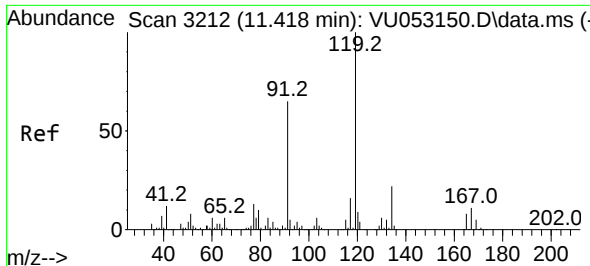
Tgt Ion:126 Resp: 1557

Ion Ratio Lower Upper

126 100

91 330.7 0.0 760.6

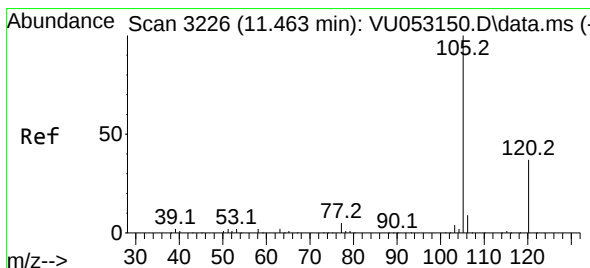
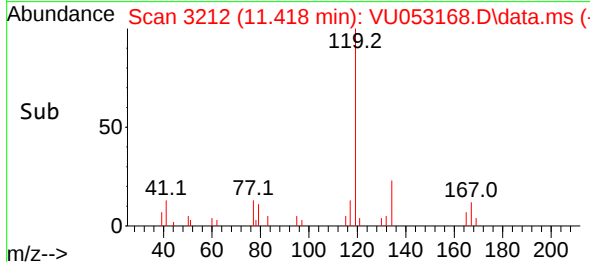
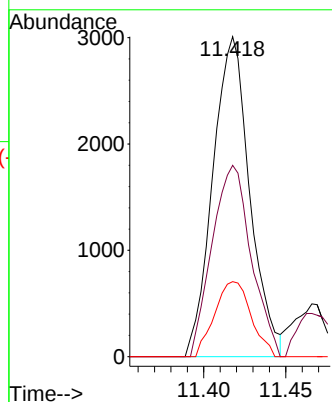
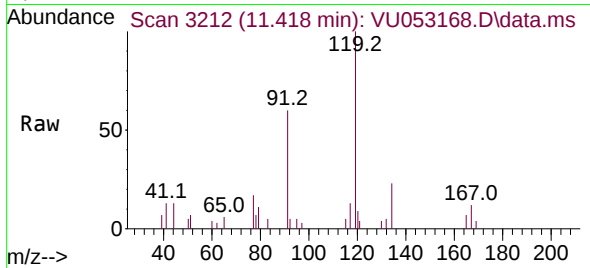




#77  
tert-Butylbenzene  
Concen: 0.186 ug/l  
RT: 11.418 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

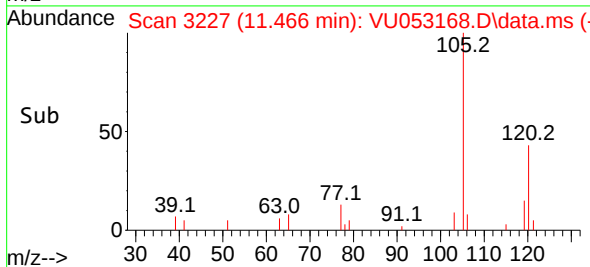
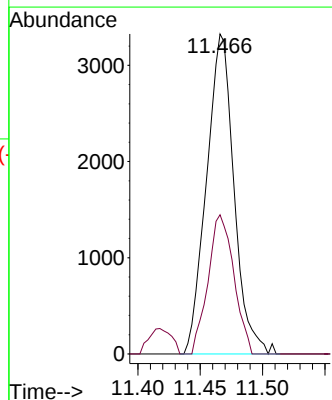
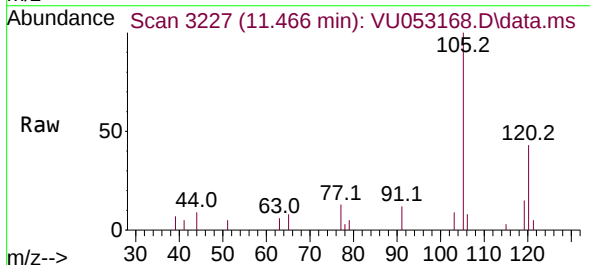
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

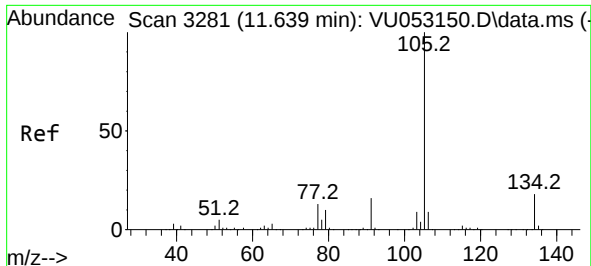
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 4705  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 63.2  | 31.9  | 95.7  |
| 134      | 23.1  | 17.4  | 26.0  |



#78  
1,2,4-Trimethylbenzene  
Concen: 0.194 ug/l  
RT: 11.466 min Scan# 3227  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 5105  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 40.7  | 21.1  | 63.1  |

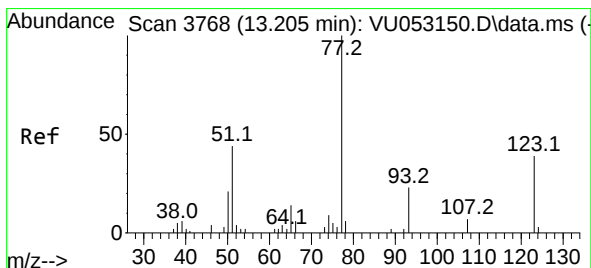
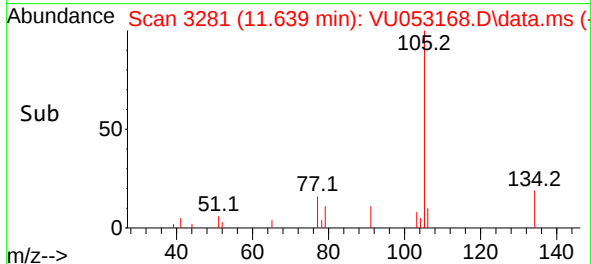
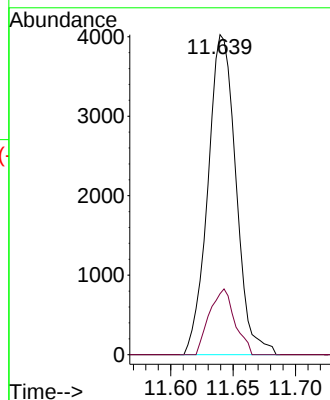
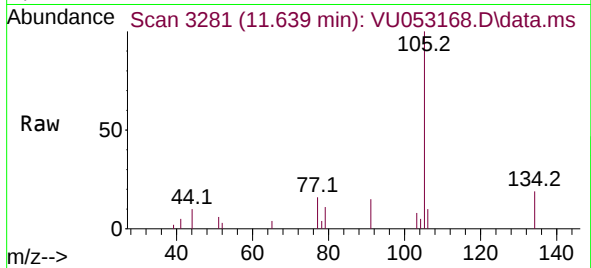




#79  
 sec-Butylbenzene  
 Concen: 0.180 ug/l  
 RT: 11.639 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: VU053168.D  
 Acq: 28 Feb 2023 12:47

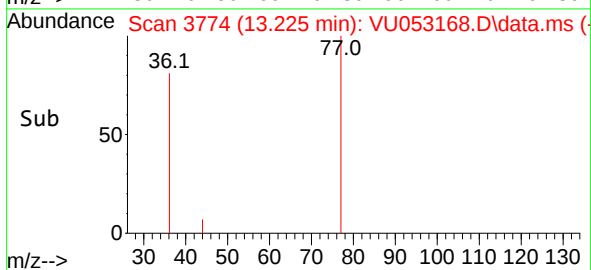
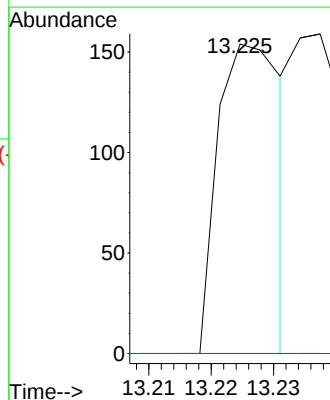
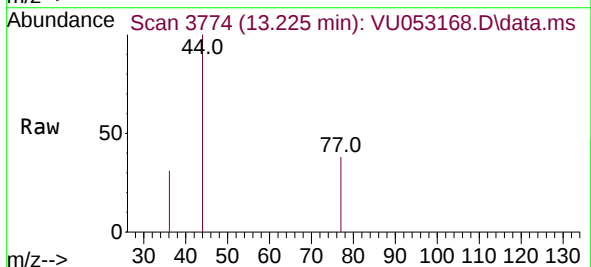
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-WATER-03-QT1-2023

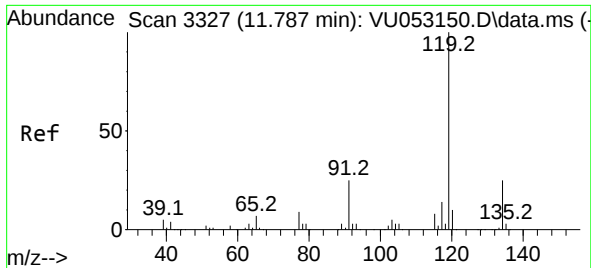
Tgt Ion:105 Resp: 6318  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 14.4 21.6



#80  
 Nitrobenzene  
 Concen: 0.334 ug/l  
 RT: 13.225 min Scan# 3774  
 Delta R.T. 0.019 min  
 Lab File: VU053168.D  
 Acq: 28 Feb 2023 12:47

Tgt Ion: 77 Resp: 109  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 17.0 60.2#  
 65 0.0 12.9 16.5#

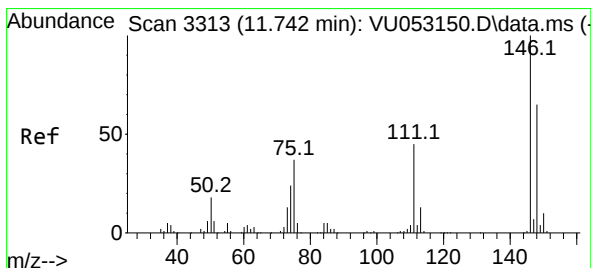
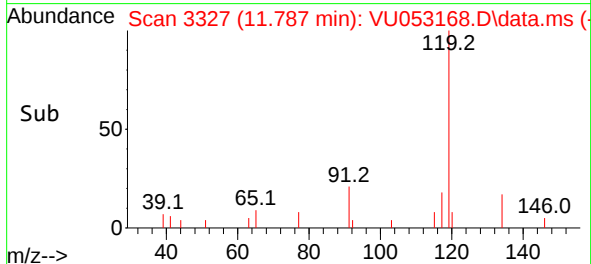
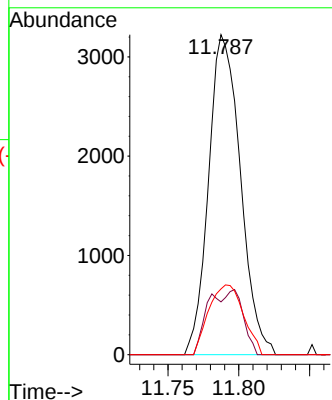
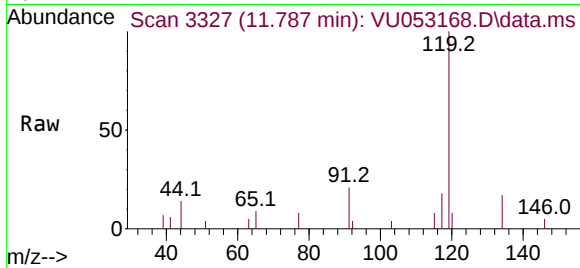




#81  
p-Isopropyltoluene  
Concen: 0.181 ug/l  
RT: 11.787 min Scan# 3327  
Delta R.T. 0.000 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

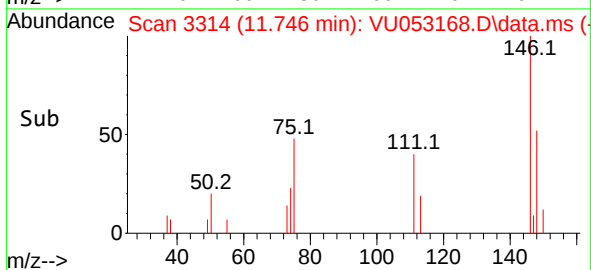
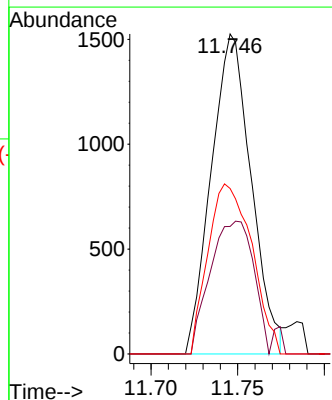
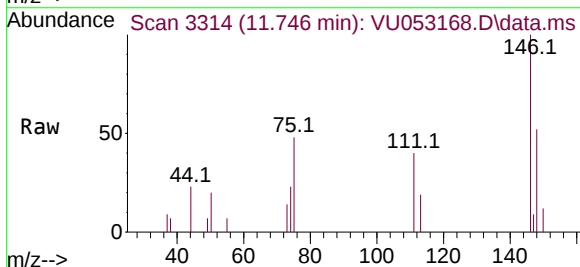
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

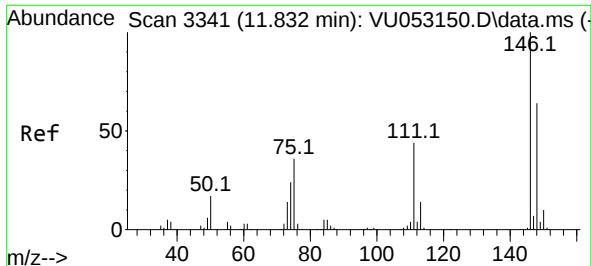
Tgt Ion:119 Resp: 5042  
Ion Ratio Lower Upper  
119 100  
134 10.3 19.8 29.6#  
91 23.7 20.5 30.7



#82  
1,3-Dichlorobenzene  
Concen: 0.185 ug/l  
RT: 11.746 min Scan# 3314  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:146 Resp: 2445  
Ion Ratio Lower Upper  
146 100  
111 45.2 36.0 54.0  
148 58.3 50.8 76.2

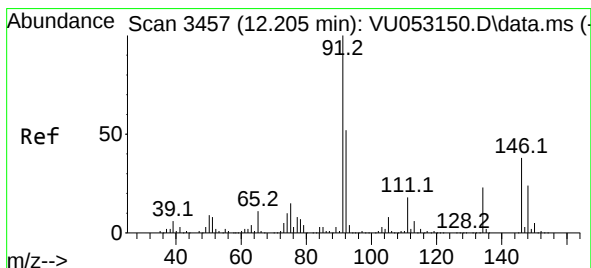
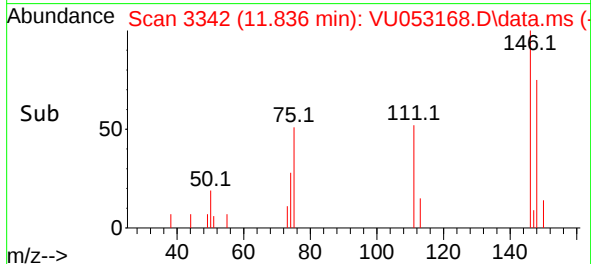
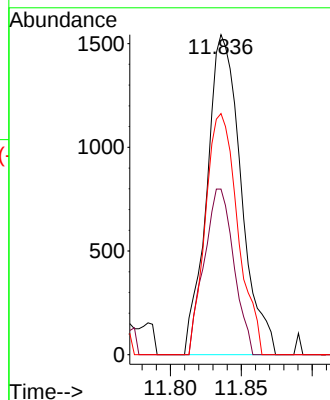
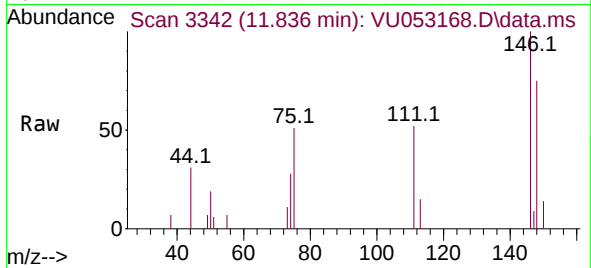




#83  
1,4-Dichlorobenzene  
Concen: 0.192 ug/l  
RT: 11.836 min Scan# 311  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

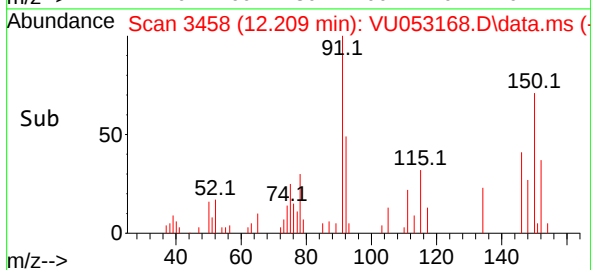
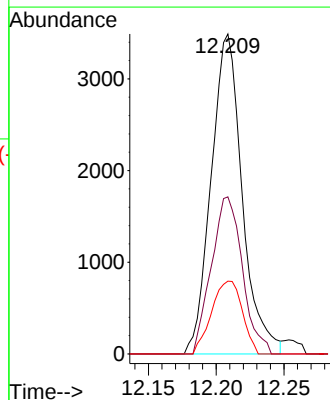
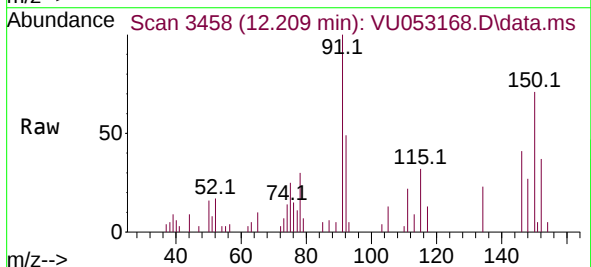
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

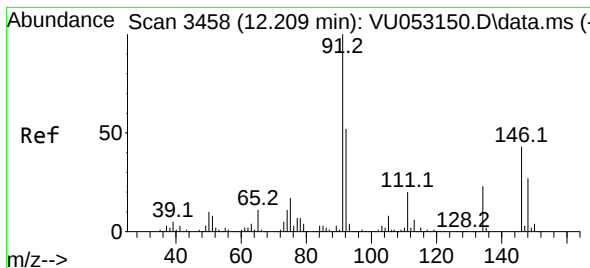
Tgt Ion:146 Resp: 2592  
Ion Ratio Lower Upper  
146 100  
111 44.8 34.0 51.0  
148 71.0 49.8 74.6



#84  
n-Butylbenzene  
Concen: 0.193 ug/l  
RT: 12.209 min Scan# 3458  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion: 91 Resp: 5554  
Ion Ratio Lower Upper  
91 100  
92 49.1 41.8 62.6  
134 22.5 17.9 26.9





#85

1,2-Dichlorobenzene

Concen: 0.187 ug/l

RT: 12.212 min Scan# 3458

Delta R.T. 0.003 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023

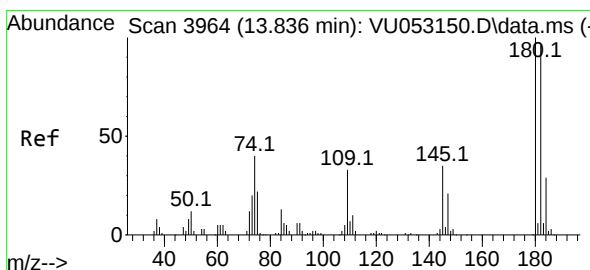
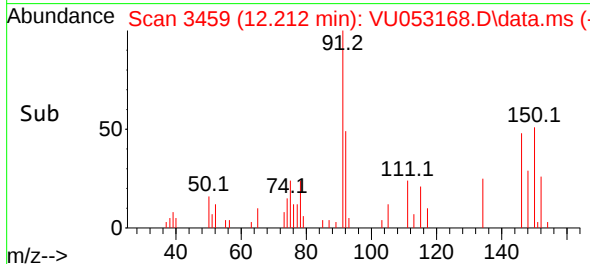
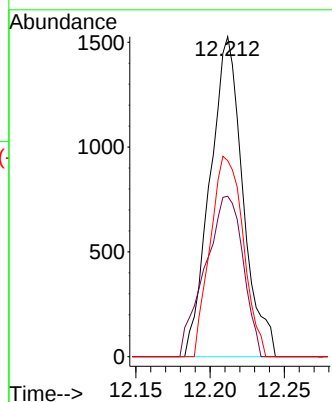
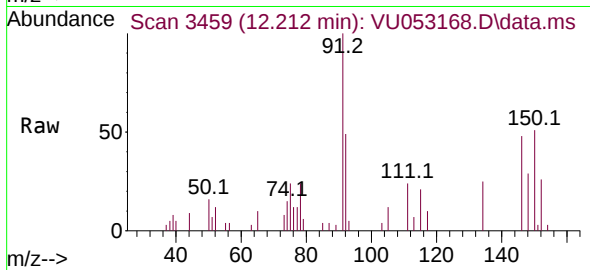
Tgt Ion:146 Resp: 2351

Ion Ratio Lower Upper

146 100

111 57.8 23.2 69.6

148 62.5 31.4 94.3



#87

1,2,4-Trichlorobenzene

Concen: 0.231 ug/l

RT: 13.842 min Scan# 3966

Delta R.T. 0.006 min

Lab File: VU053168.D

Acq: 28 Feb 2023 12:47

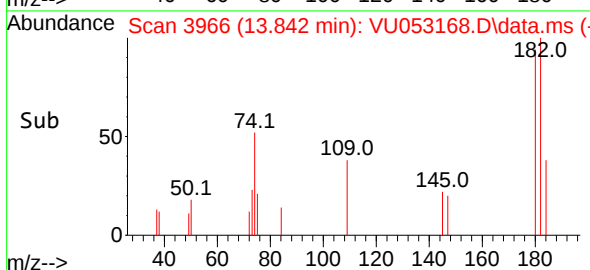
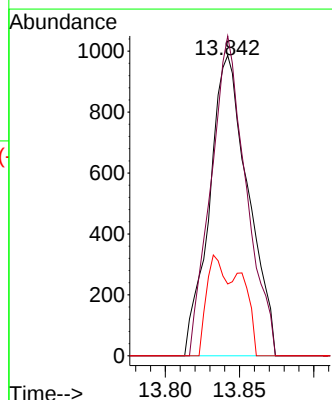
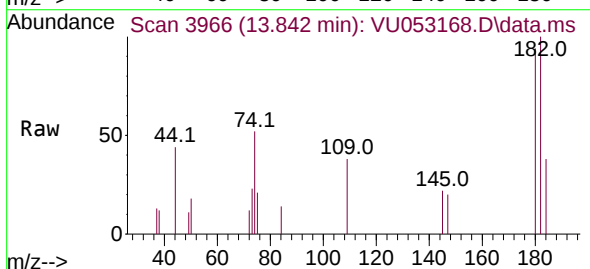
Tgt Ion:180 Resp: 1784

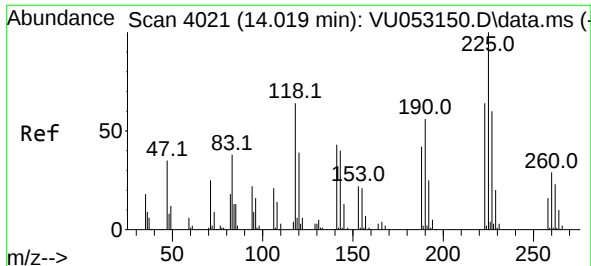
Ion Ratio Lower Upper

180 100

182 96.7 77.4 116.0

145 16.6 28.3 42.5#

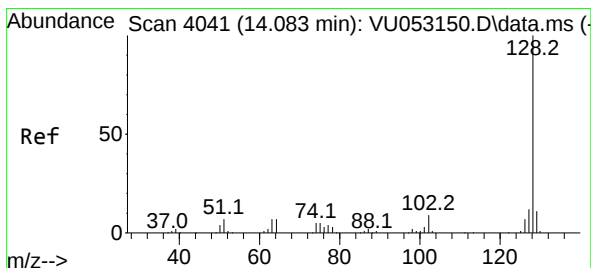
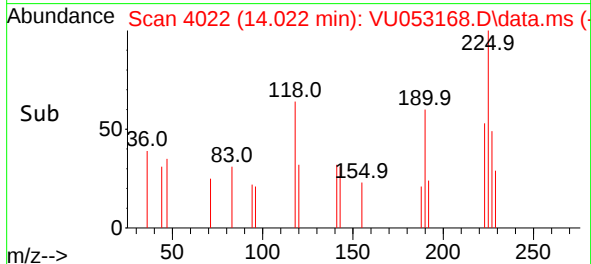
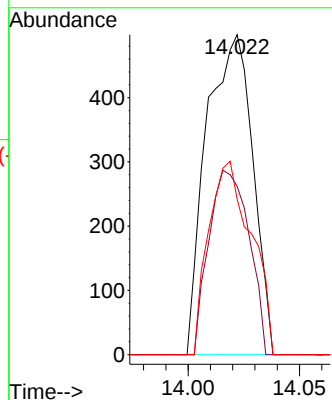
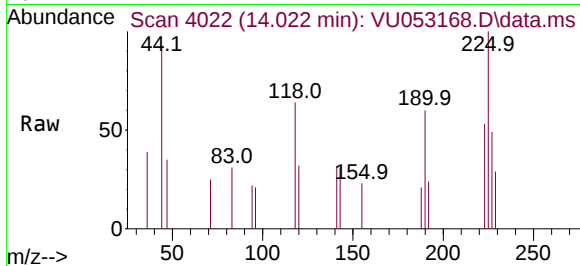




#88  
Hexachlorobutadiene  
Concen: 0.190 ug/l  
RT: 14.022 min Scan# 4022  
Delta R.T. 0.003 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

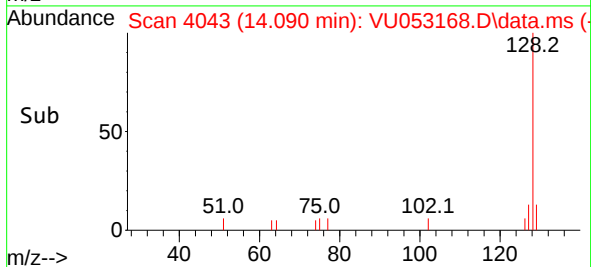
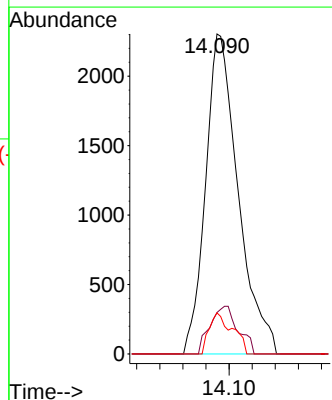
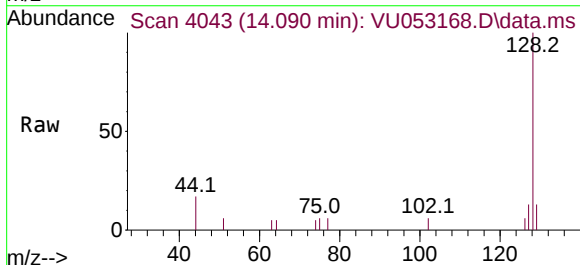
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-WATER-03-QT1-2023

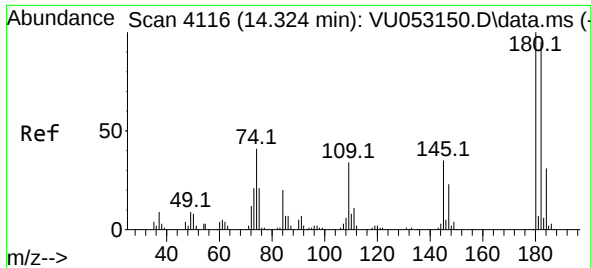
Tgt Ion:225 Resp: 718  
Ion Ratio Lower Upper  
225 100  
223 50.0 51.1 76.7#  
227 55.7 49.9 74.9



#89  
Naphthalene  
Concen: 0.274 ug/l  
RT: 14.090 min Scan# 4043  
Delta R.T. 0.007 min  
Lab File: VU053168.D  
Acq: 28 Feb 2023 12:47

Tgt Ion:128 Resp: 4504  
Ion Ratio Lower Upper  
128 100  
127 12.9 9.9 14.9  
129 9.1 8.3 12.5





#90

1,2,3-Trichlorobenzene

Concen: 0.256 ug/l

RT: 14.324 min Scan# 41

Delta R.T. -0.000 min

Lab File: VU053168.D

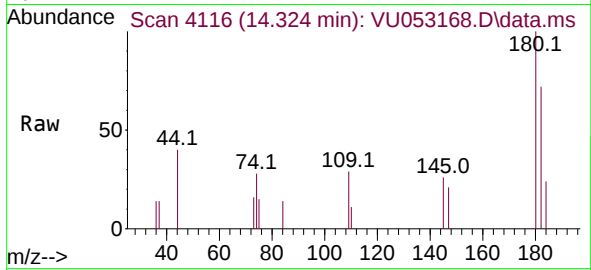
Acq: 28 Feb 2023 12:47

Instrument :

MSVOA\_U

ClientSampleId :

MDL-WATER-03-QT1-2023



Tgt Ion:180 Resp: 1744

Ion Ratio Lower Upper

180 100

182 81.7 76.6 115.0

145 25.3 29.0 43.6#

