

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU072623\  
 Data File : VU054880.D  
 Acq On : 26 Jul 2023 16:54  
 Operator : MD/SY  
 Sample : 03587-09DL 5X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PT-THM-WSDL

Quant Time: Jul 28 03:22:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U072523DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Wed Jul 26 09:45:35 2023  
 Response via : Initial Calibration

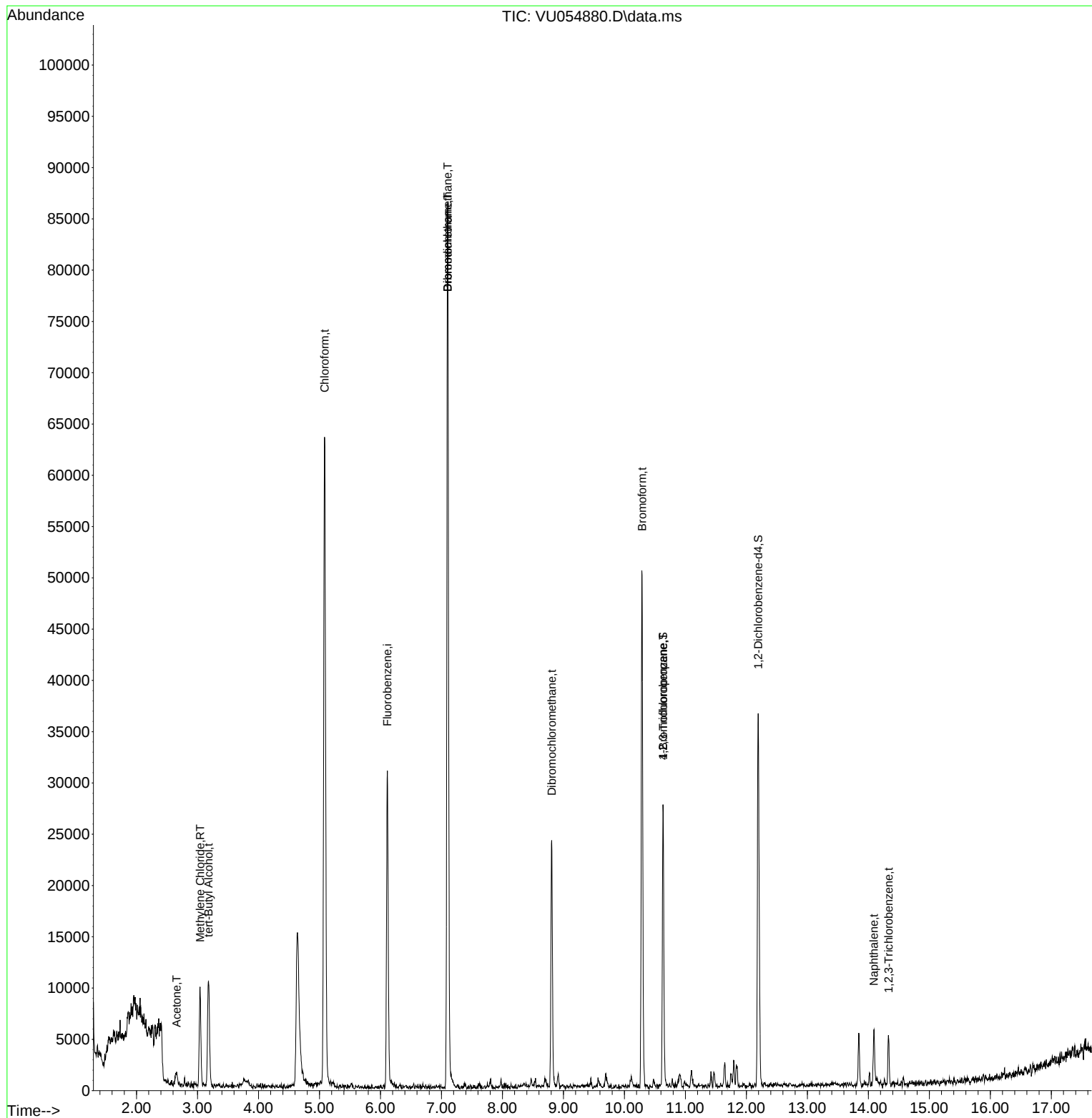
| Compound                    | R.T.   | QIon | Response | Conc  | Units    | Dev(Min) |
|-----------------------------|--------|------|----------|-------|----------|----------|
| -----                       |        |      |          |       |          |          |
| Internal Standards          |        |      |          |       |          |          |
| 1) Fluorobenzene            | 6.113  | 96   | 28065    | 1.000 | ug/l     | # 0.00   |
| System Monitoring Compounds |        |      |          |       |          |          |
| 57) 4-Bromofluorobenzene    | 10.634 | 95   | 8154     | 0.958 | ug/l     | 0.00     |
| Spiked Amount 1.000         |        |      | Recovery | =     | 96.000%  |          |
| 68) 1,2-Dichlorobenzene-d4  | 12.193 | 152  | 9862     | 1.026 | ug/l     | 0.00     |
| Spiked Amount 1.000         |        |      | Recovery | =     | 103.000% |          |
| Target Compounds            |        |      |          |       |          |          |
|                             |        |      |          |       |          | Qvalue   |
| 13) Acetone                 | 2.656  | 43   | 863      | 0.679 | ug/l     | 91       |
| 15) Methylene Chloride      | 3.042  | 84   | 4753     | 0.721 | ug/l     | 93       |
| 24) tert-Butyl Alcohol      | 3.181  | 59   | 5784     | 8.697 | ug/l #   | 92       |
| 27) Chloroform              | 5.084  | 83   | 56485    | 4.458 | ug/l     | 97       |
| 43) Dibromomethane          | 7.103  | 93   | 1715     | 0.511 | ug/l #   | 6        |
| 44) Bromodichloromethane    | 7.103  | 83   | 55441    | 5.929 | ug/l #   | 97       |
| 55) Dibromochloromethane    | 8.807  | 129  | 12487    | 2.048 | ug/l     | 97       |
| 67) Bromoform               | 10.290 | 173  | 21867    | 6.917 | ug/l #   | 95       |
| 71) 1,2,3-Trichloropropane  | 10.634 | 75   | 4841     | 1.032 | ug/l #   | 42       |
| 89) Naphthalene             | 14.090 | 128  | 5085     | 0.335 | ug/l     | 99       |
| 90) 1,2,3-Trichlorobenzene  | 14.331 | 180  | 1926     | 0.221 | ug/l     | 90       |
| -----                       |        |      |          |       |          |          |

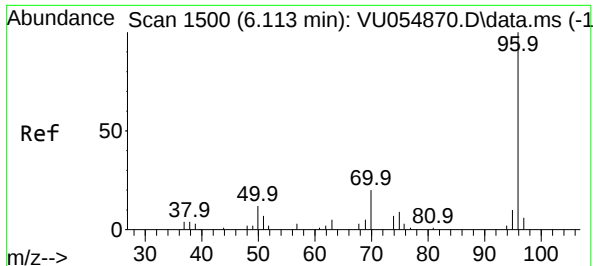
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
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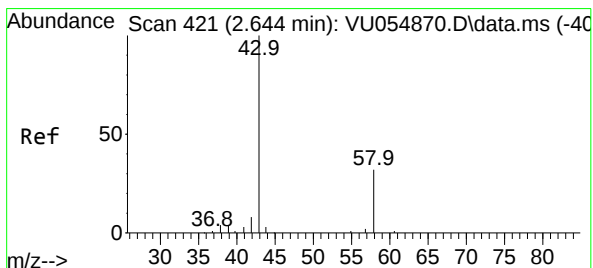
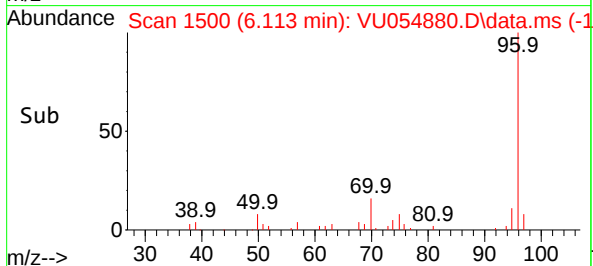
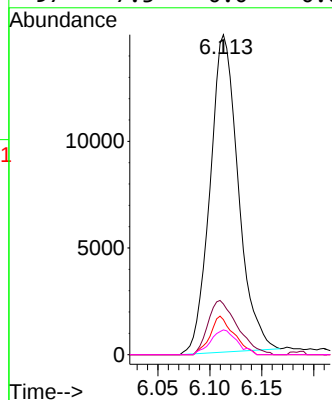
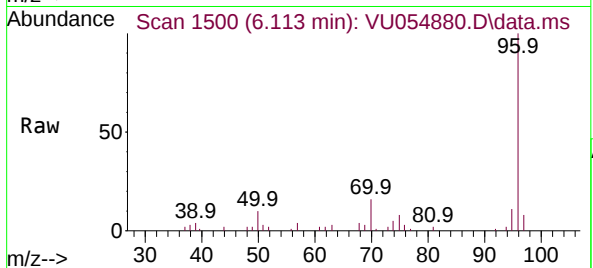




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.113 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

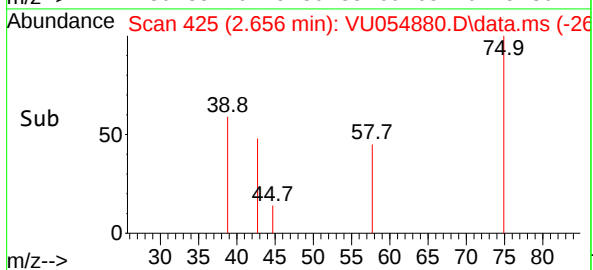
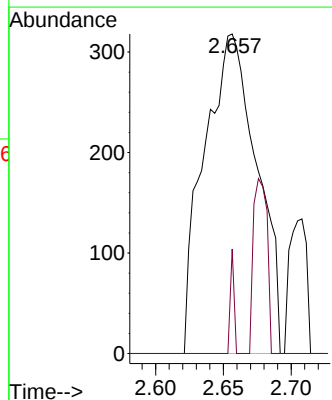
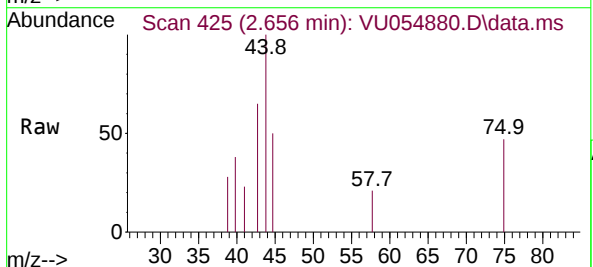
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-THM-WSDL

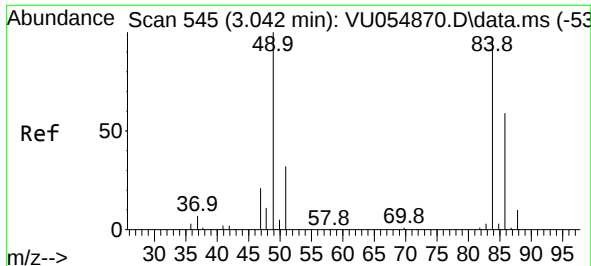
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 28065 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 17.8  | 14.0  | 21.0  |
| 95       | 10.2  | 8.7   | 13.1  |
| 97       | 7.3   | 0.0   | 0.0   |



#13  
Acetone  
Concen: 0.679 ug/l  
RT: 2.656 min Scan# 425  
Delta R.T. 0.013 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 863   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 32.7  | 30.7  | 46.1  |

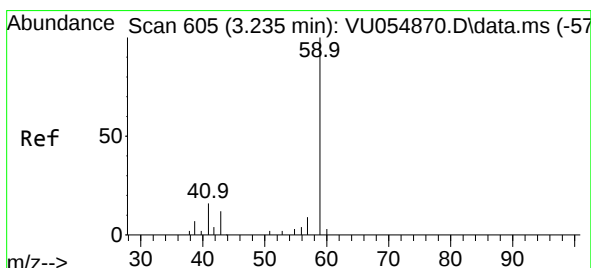
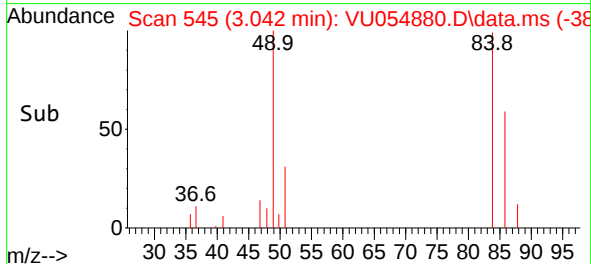
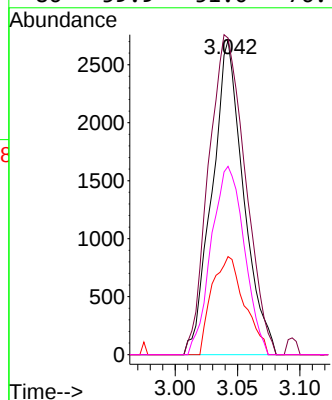
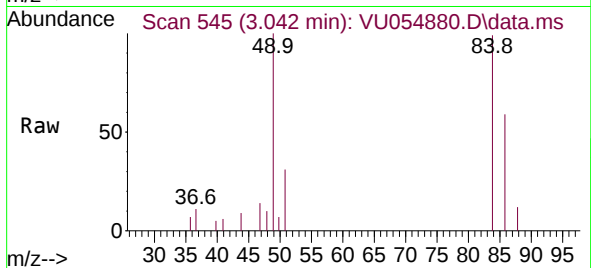




#15  
Methylene Chloride  
Concen: 0.721 ug/l  
RT: 3.042 min Scan# 54  
Delta R.T. 0.000 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

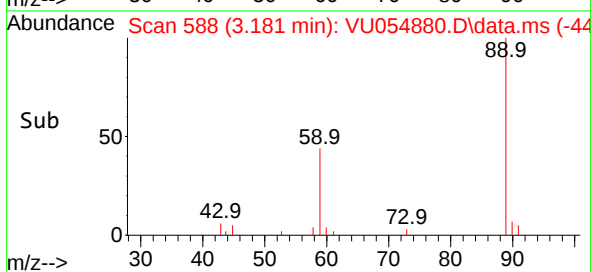
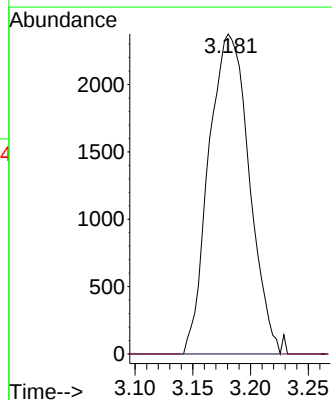
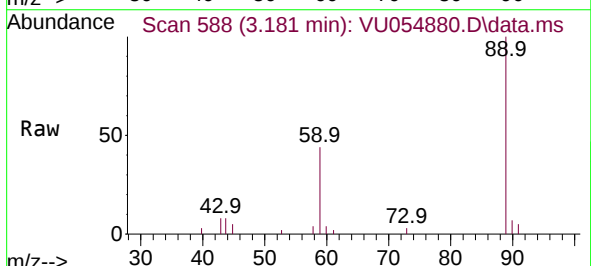
Instrument :  
MSVOA\_U  
ClientSampleId :  
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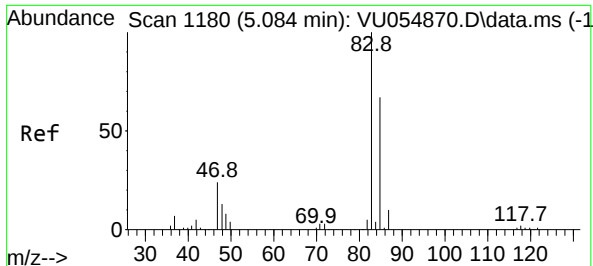
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 4753  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 100.7    | 87.8 131.6  |
| 51 31.2     | 0.0 68.2    |
| 86 59.9     | 51.0 76.4   |



#24  
tert-Butyl Alcohol  
Concen: 8.697 ug/l  
RT: 3.181 min Scan# 588  
Delta R.T. -0.055 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

|             |             |
|-------------|-------------|
| Tgt Ion: 59 | Resp: 5784  |
| Ion Ratio   | Lower Upper |
| 59 100      |             |
| 57 0.0      | 2.2 3.2#    |





#27

Chloroform

Concen: 4.458 ug/l

RT: 5.084 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VU054880.D

Acq: 26 Jul 2023 16:54

Instrument :

MSVOA\_U

ClientSampleId :

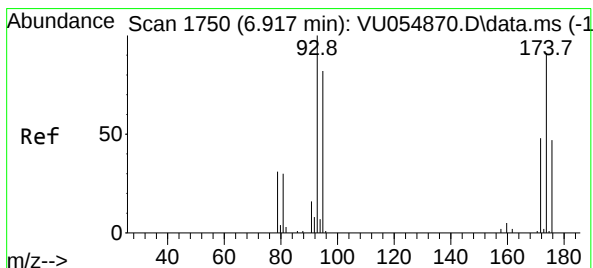
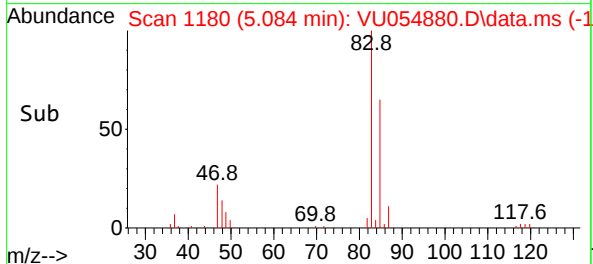
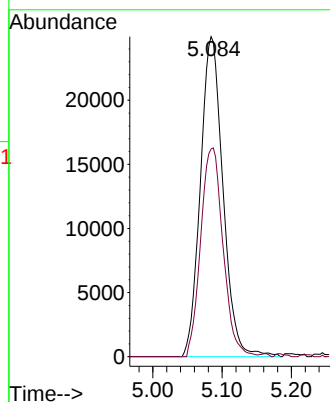
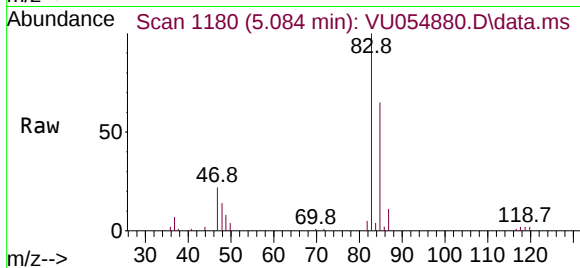
PT-THM-WSDL

Tgt Ion: 83 Resp: 56485

Ion Ratio Lower Upper

83 100

85 64.9 0.0 135.2



#43

Dibromomethane

Concen: 0.511 ug/l

RT: 7.103 min Scan# 1808

Delta R.T. 0.186 min

Lab File: VU054880.D

Acq: 26 Jul 2023 16:54

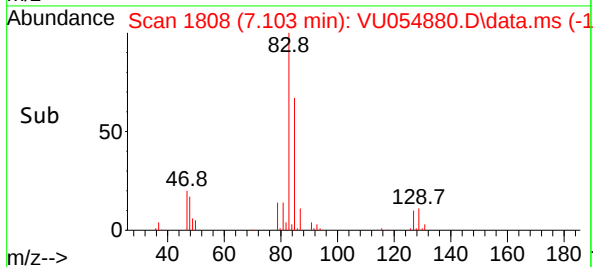
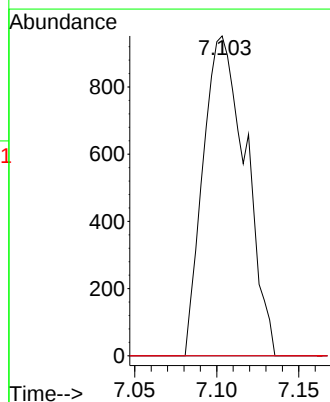
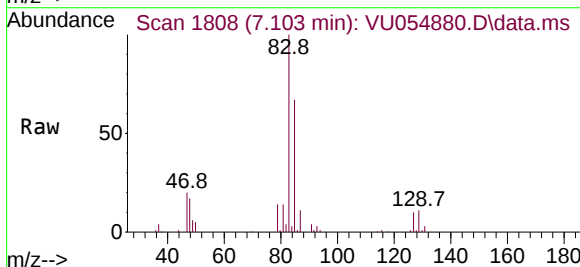
Tgt Ion: 93 Resp: 1715

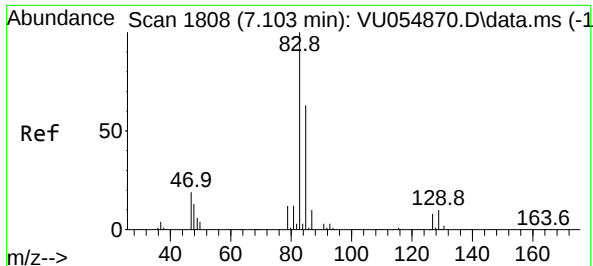
Ion Ratio Lower Upper

93 100

95 0.0 64.7 97.1#

174 0.0 74.4 111.6#

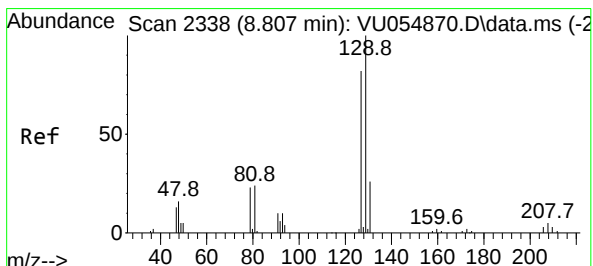
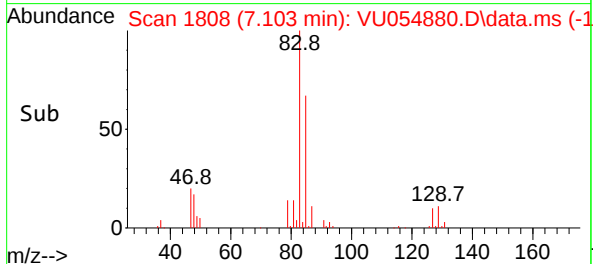
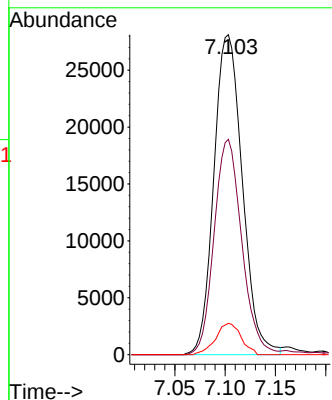
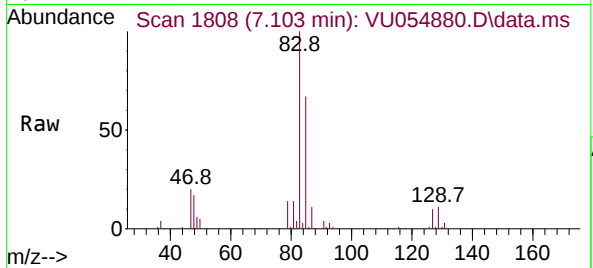




#44  
Bromodichloromethane  
Concen: 5.929 ug/l  
RT: 7.103 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

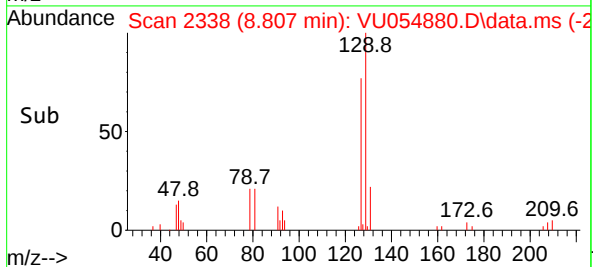
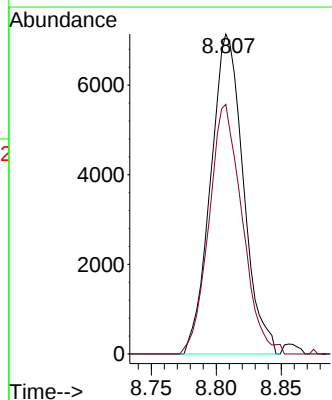
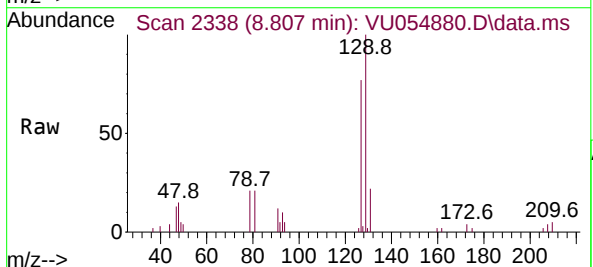
Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-THM-WSDL

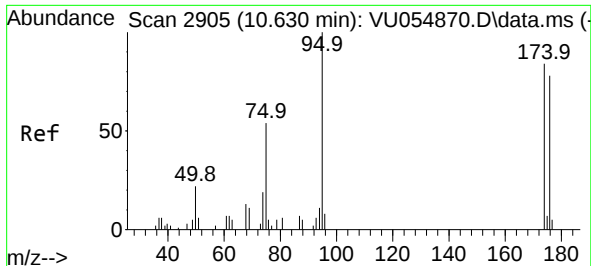
Tgt Ion: 83 Resp: 55441  
Ion Ratio Lower Upper  
83 100  
85 67.3 52.2 78.2  
127 9.8 6.1 9.1#



#55  
Dibromochloromethane  
Concen: 2.048 ug/l  
RT: 8.807 min Scan# 2338  
Delta R.T. 0.000 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

Tgt Ion: 129 Resp: 12487  
Ion Ratio Lower Upper  
129 100  
127 79.1 61.4 92.0

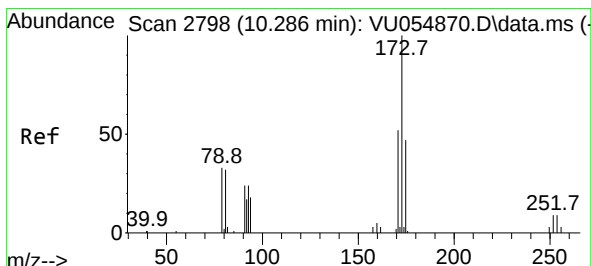
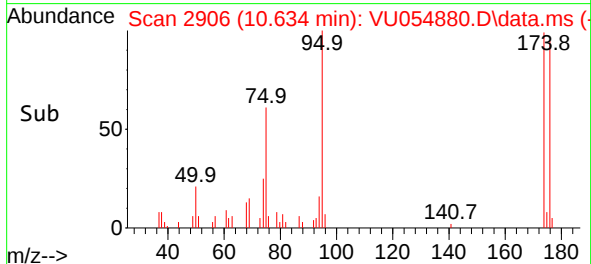
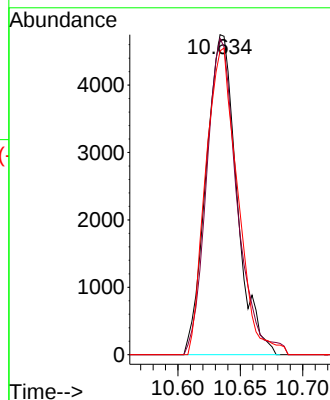
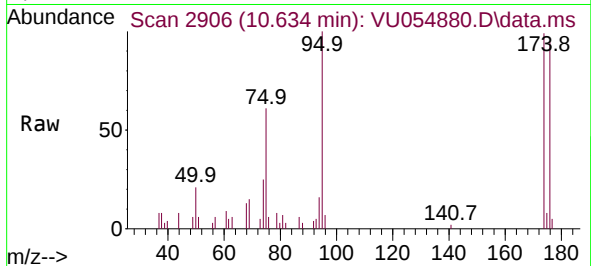




#57  
4-Bromofluorobenzene  
Concen: 0.958 ug/l  
RT: 10.634 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

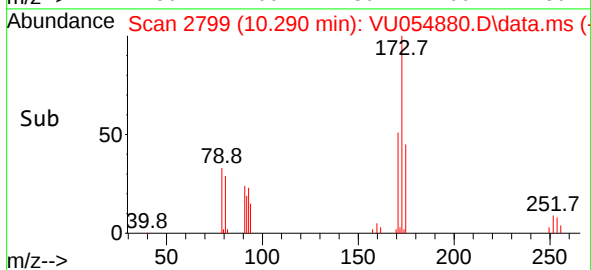
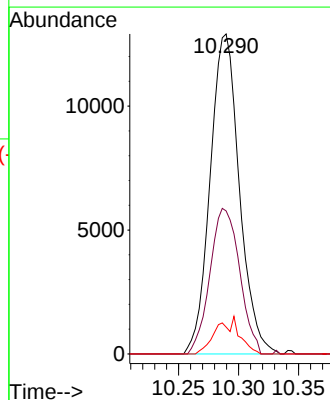
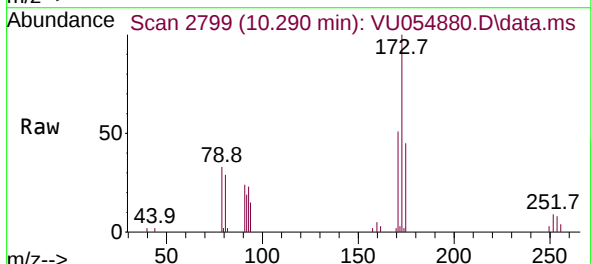
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PT-THM-WSDL

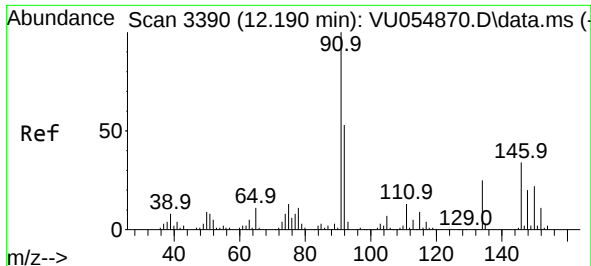
Tgt Ion: 95 Resp: 8154  
Ion Ratio Lower Upper  
95 100  
174 97.7 79.3 118.9  
176 99.2 71.5 107.3



#67  
Bromoform  
Concen: 6.917 ug/l  
RT: 10.290 min Scan# 2799  
Delta R.T. 0.003 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

Tgt Ion: 173 Resp: 21867  
Ion Ratio Lower Upper  
173 100  
175 46.2 39.0 58.6  
254 5.8 7.4 11.0#

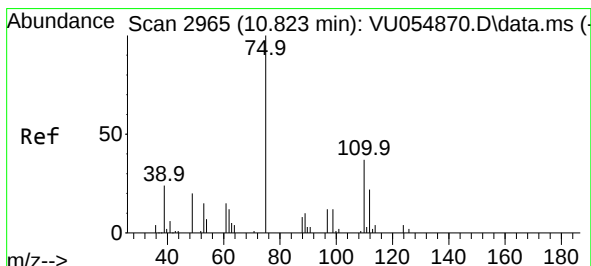
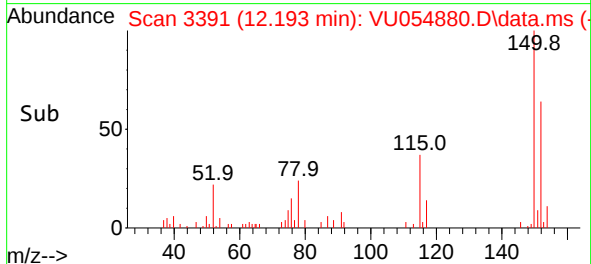
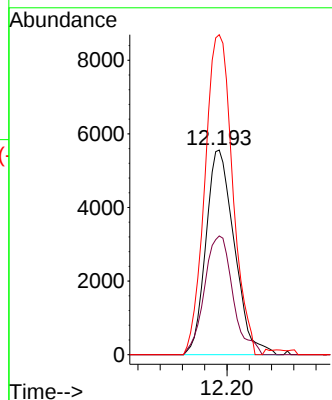
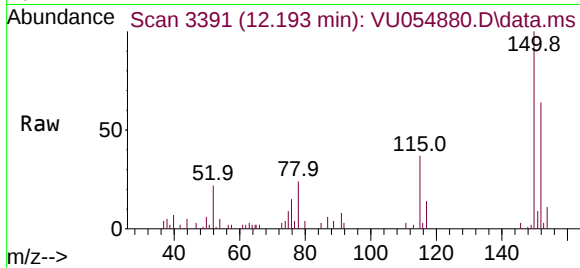




#68  
 1,2-Dichlorobenzene-d4  
 Concen: 1.026 ug/l  
 RT: 12.193 min Scan# 31  
 Delta R.T. 0.003 min  
 Lab File: VU054880.D  
 Acq: 26 Jul 2023 16:54

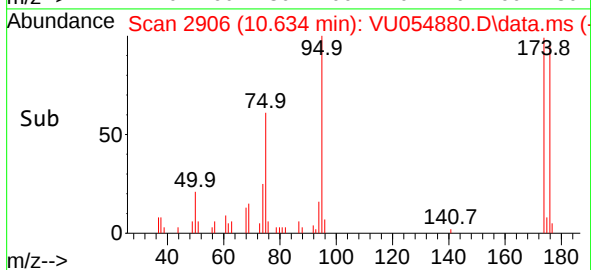
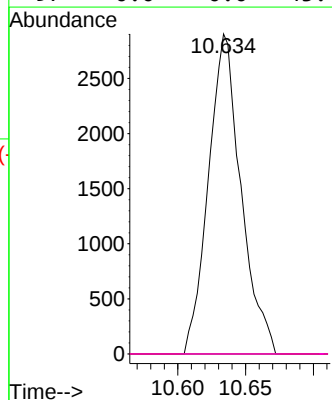
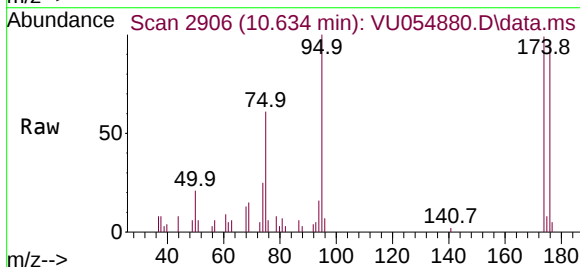
Instrument :  
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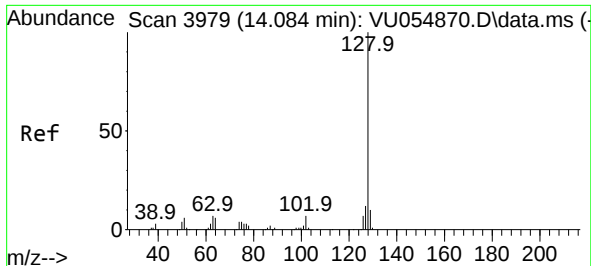
Tgt Ion:152 Resp: 9862  
 Ion Ratio Lower Upper  
 152 100  
 115 57.9 0.0 234.8  
 150 152.3 0.0 598.2



#71  
 1,2,3-Trichloropropane  
 Concen: 1.032 ug/l  
 RT: 10.634 min Scan# 2906  
 Delta R.T. -0.190 min  
 Lab File: VU054880.D  
 Acq: 26 Jul 2023 16:54

Tgt Ion: 75 Resp: 4841  
 Ion Ratio Lower Upper  
 75 100  
 77 9.5 0.0 0.0#  
 110 0.0 0.0 80.8  
 97 0.0 0.0 43.4

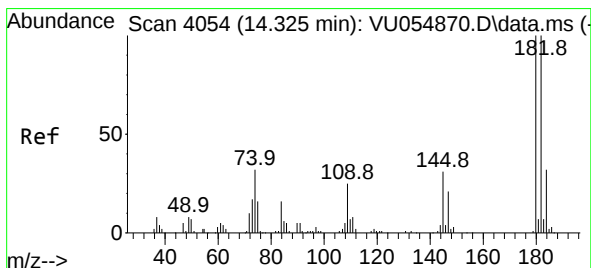
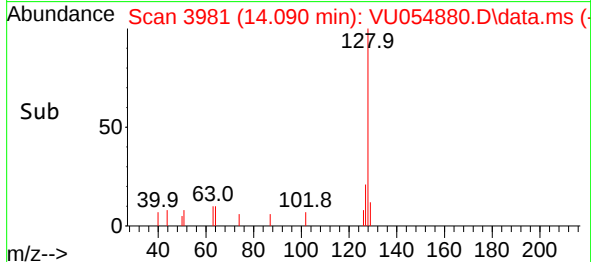
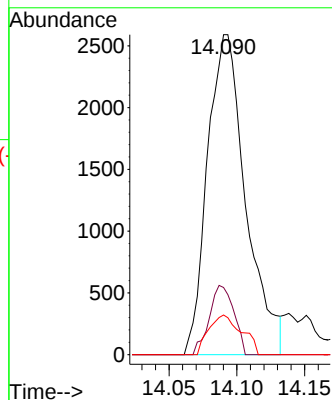
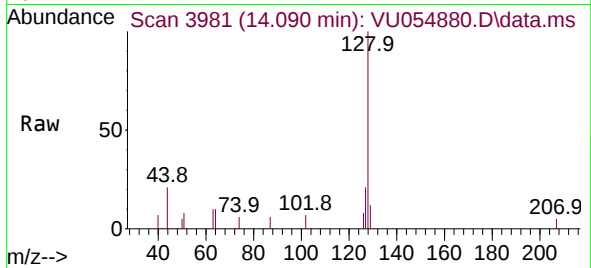




#89  
Naphthalene  
Concen: 0.335 ug/l  
RT: 14.090 min Scan# 3979  
Delta R.T. 0.006 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

Instrument :  
MSVOA\_U  
ClientSampleId :  
PT-THM-WSDL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 5085 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 13.9  | 10.6  | 15.8 |
| 129       | 10.6  | 8.7   | 13.1 |



#90  
1,2,3-Trichlorobenzene  
Concen: 0.221 ug/l  
RT: 14.331 min Scan# 4056  
Delta R.T. 0.006 min  
Lab File: VU054880.D  
Acq: 26 Jul 2023 16:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 1926  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 85.3  | 76.0  | 114.0 |
| 145       | 25.8  | 24.3  | 36.5  |

