

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX033123\  
 Data File : VX034888.D  
 Acq On : 31 Mar 2023 19:03  
 Operator : JC/MD  
 Sample : 02140-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-02

Quant Time: Apr 01 03:39:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X032823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 28 09:11:00 2023  
 Response via : Initial Calibration

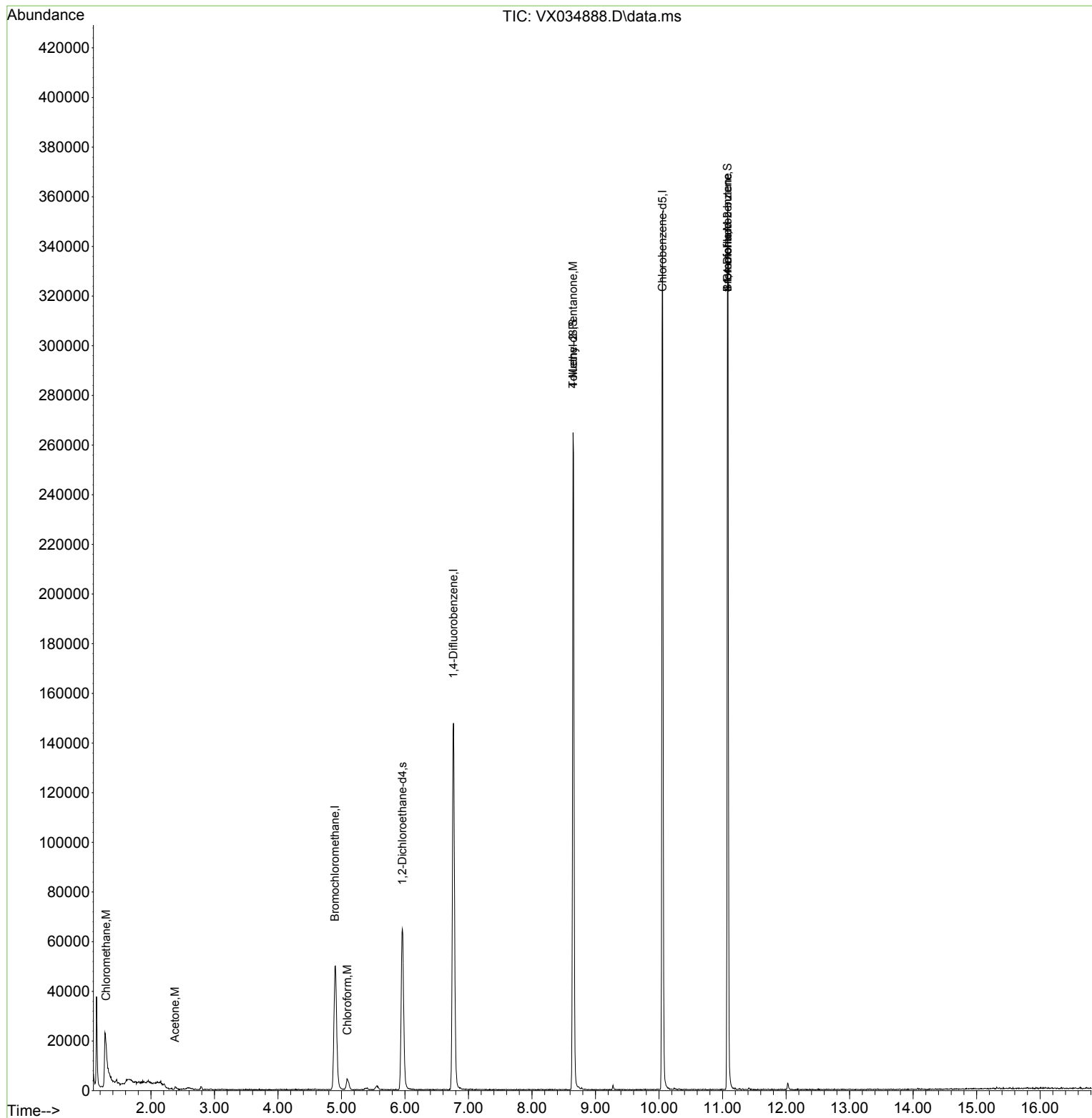
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Bromochloromethane       | 4.897  | 128   | 20073    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 146339   | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 152437   | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 63147    | 32.741   | ug/l       | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | = 109.133% |          |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 96172    | 31.574   | ug/l       | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | = 105.233% |          |
| 63) Toluene-d8              | 8.647  | 98    | 155135   | 29.947   | ug/l       | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | = 99.833%  |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 3) Chloromethane            | 1.294  | 50    | 1427     | 0.578    | ug/l       | 94       |
| 15) Acetone                 | 2.380  | 58    | 267      | 0.809    | ug/l #     | 18       |
| 25) Chloroform              | 5.092  | 83    | 3236     | 0.753    | ug/l       | 99       |
| 56) Bromoform               | 11.079 | 173   | 774      | 0.466    | ug/l #     | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.647  | 43    | 871      | 0.249    | ug/l #     | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 54264    | 54.621   | ug/l #     | 4        |
| -----                       |        |       |          |          |            |          |

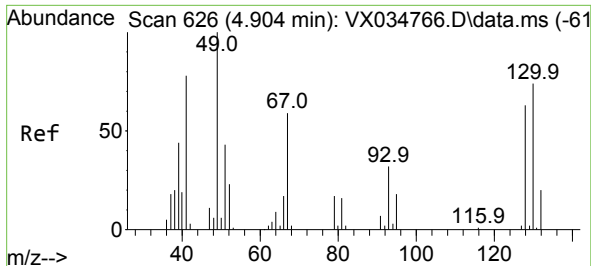
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Tue Mar 28 09:11:00 2023  
Response via : Initial Calibration

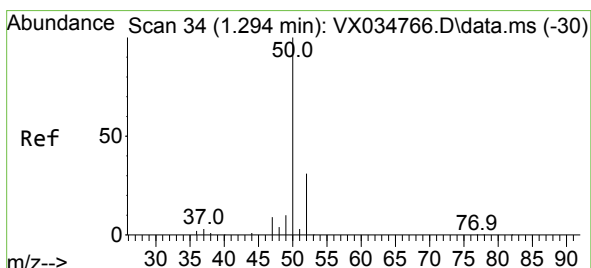
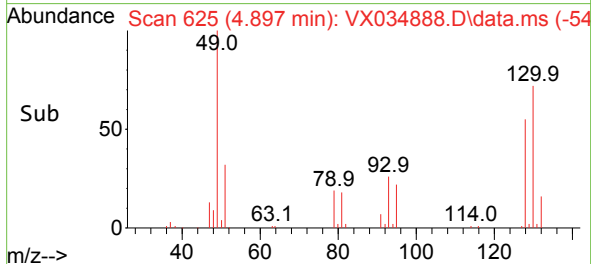
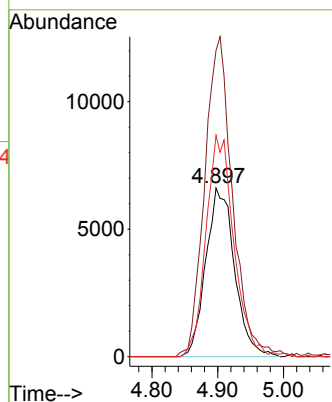
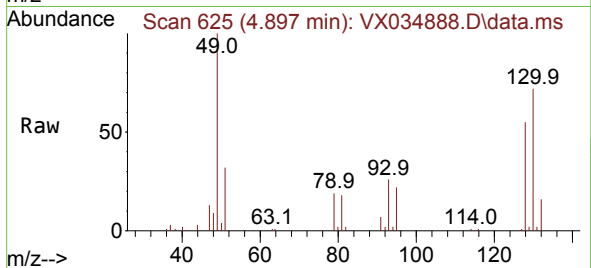




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.897 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: VX034888.D  
Acq: 31 Mar 2023 19:03

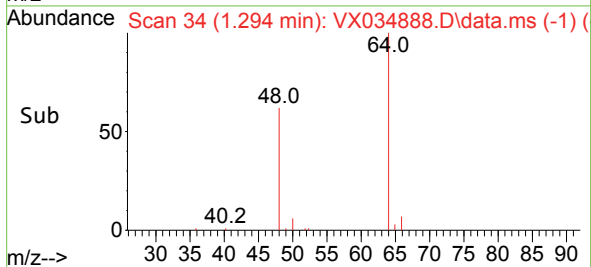
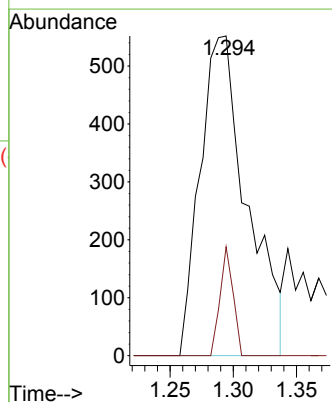
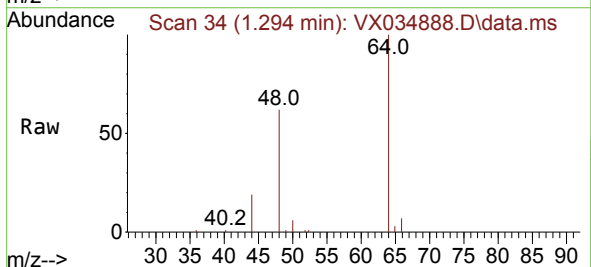
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-02

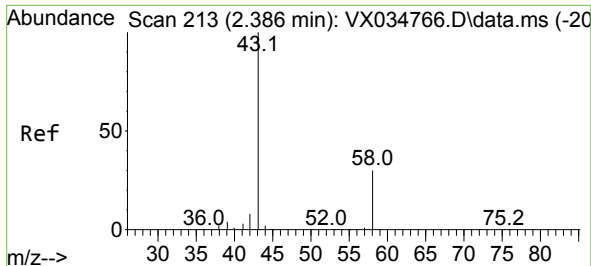
Tgt Ion:128 Resp: 20073  
Ion Ratio Lower Upper  
128 100  
49 174.0 0.0 428.8  
130 127.3 0.0 310.8



#3  
Chloromethane  
Concen: 0.578 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX034888.D  
Acq: 31 Mar 2023 19:03

Tgt Ion: 50 Resp: 1427  
Ion Ratio Lower Upper  
50 100  
52 34.1 24.6 36.8





#15

Acetone

Concen: 0.809 ug/l

RT: 2.380 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX034888.D

Acq: 31 Mar 2023 19:03

Instrument :

MSVOA\_X

ClientSampleId :

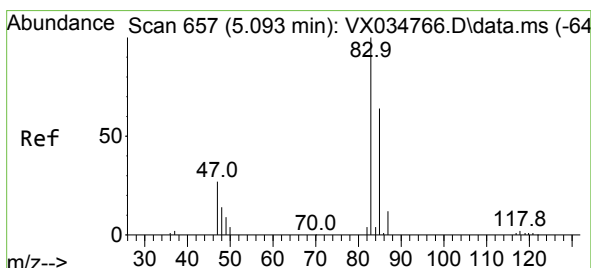
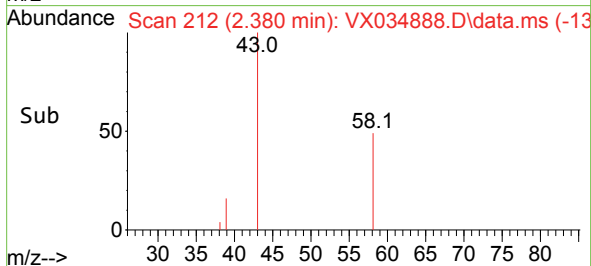
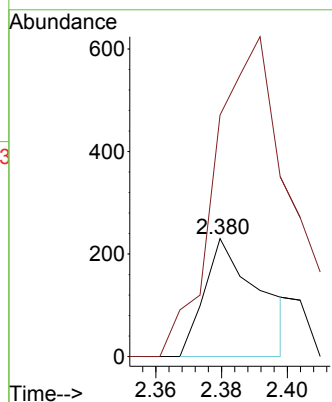
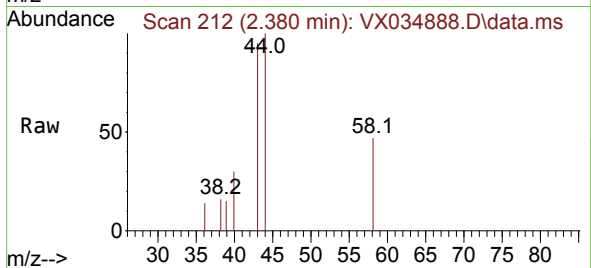
MW-02

Tgt Ion: 58 Resp: 267

Ion Ratio Lower Upper

58 100

43 165.2 270.8 406.2#



#25

Chloroform

Concen: 0.753 ug/l

RT: 5.092 min Scan# 657

Delta R.T. -0.001 min

Lab File: VX034888.D

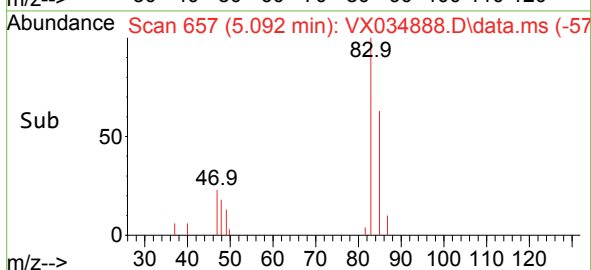
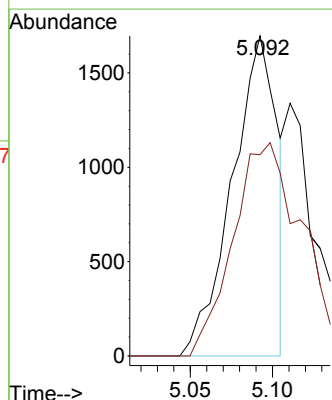
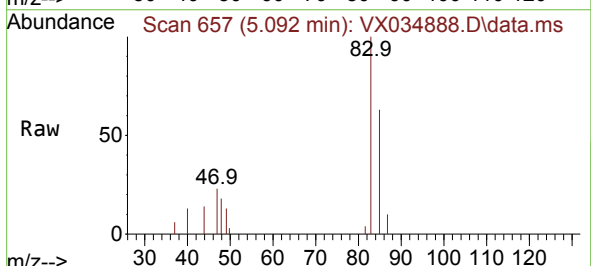
Acq: 31 Mar 2023 19:03

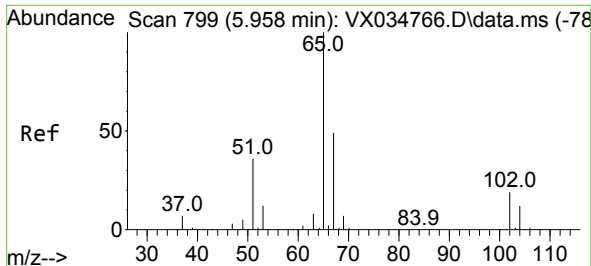
Tgt Ion: 83 Resp: 3236

Ion Ratio Lower Upper

83 100

85 62.9 51.2 76.8

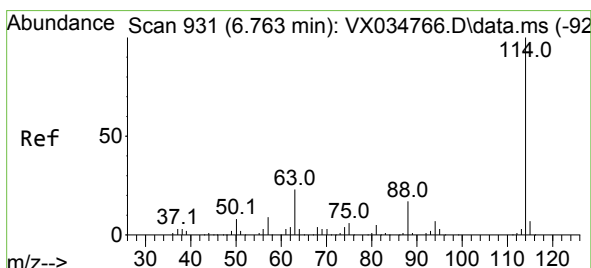
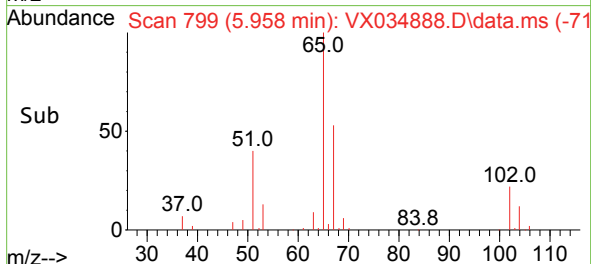
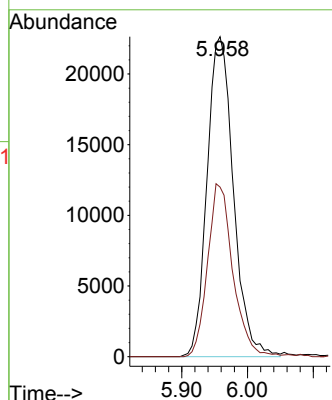
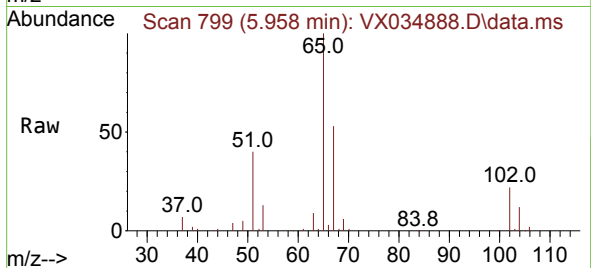




#27  
1,2-Dichloroethane-d4  
Concen: 32.741 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX034888.D  
Acq: 31 Mar 2023 19:03

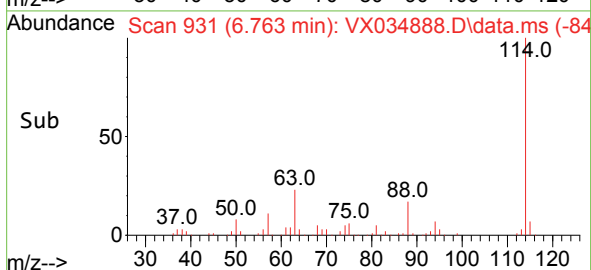
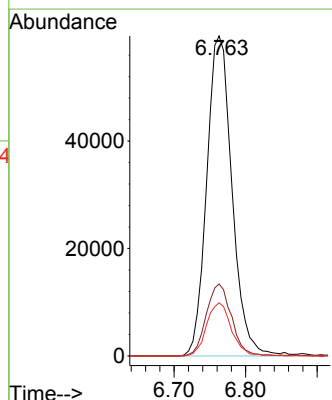
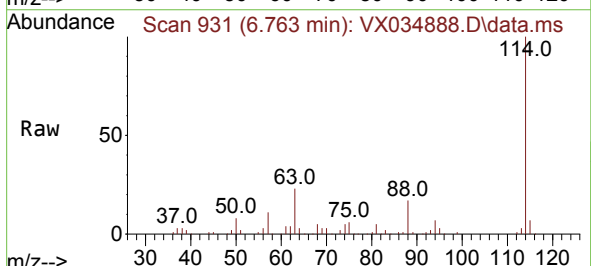
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-02

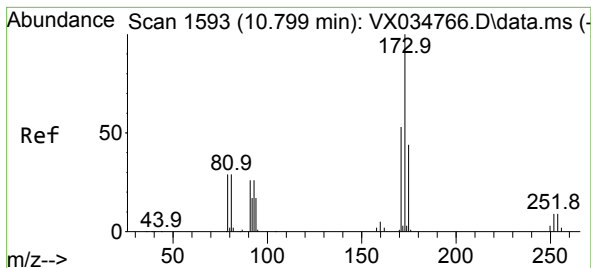
Tgt Ion: 65 Resp: 63147  
Ion Ratio Lower Upper  
65 100  
67 51.8 40.9 61.3



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.000 min  
Lab File: VX034888.D  
Acq: 31 Mar 2023 19:03

Tgt Ion: 114 Resp: 146339  
Ion Ratio Lower Upper  
114 100  
63 22.2 18.0 27.0  
88 16.1 13.3 19.9





#56

Bromoform

Concen: 0.466 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

Lab File: VX034888.D

Acq: 31 Mar 2023 19:03

Instrument :

MSVOA\_X

ClientSampleId :

MW-02

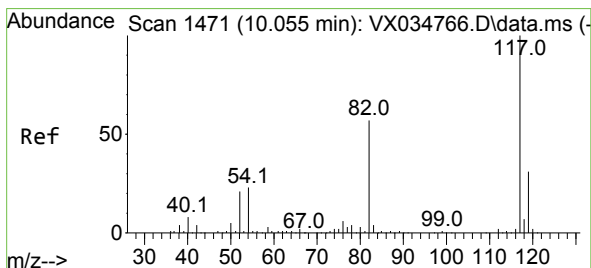
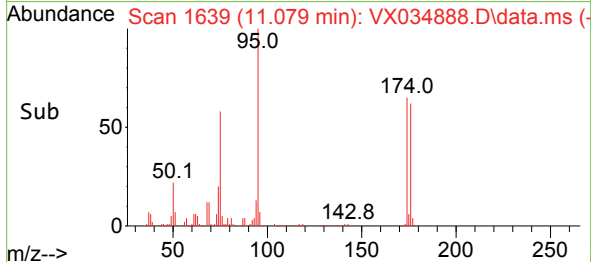
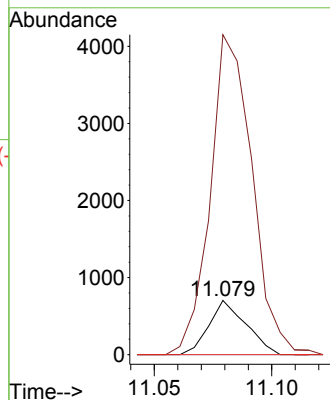
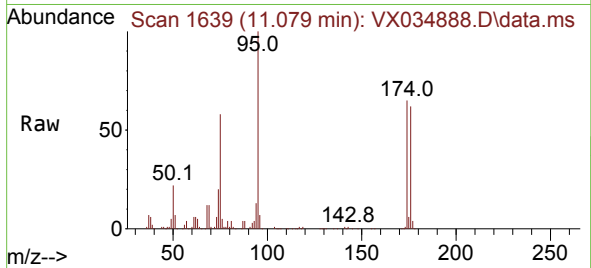
Tgt Ion:173 Resp: 774

Ion Ratio Lower Upper

173 100

175 664.9 37.0 55.4#

254 0.0 6.7 10.1#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX034888.D

Acq: 31 Mar 2023 19:03

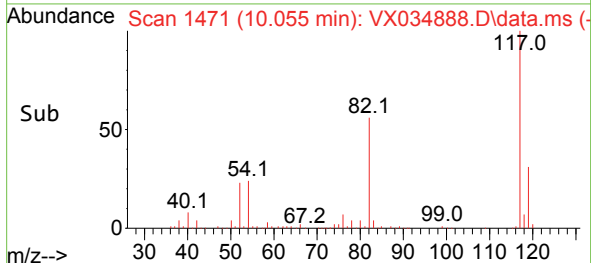
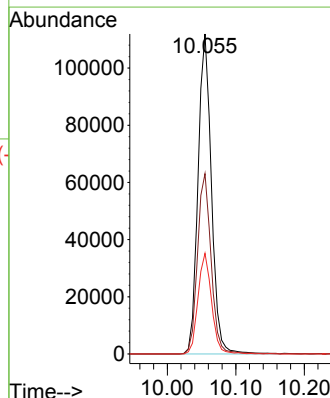
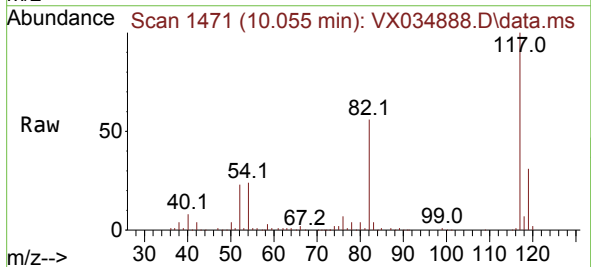
Tgt Ion:117 Resp: 152437

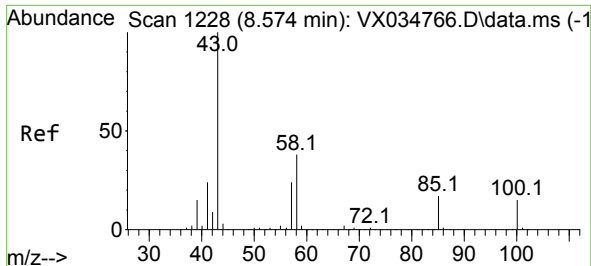
Ion Ratio Lower Upper

117 100

82 57.1 45.8 68.8

119 31.8 25.4 38.0





#58

4-Methyl-2-Pentanone

Concen: 0.249 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX034888.D

Acq: 31 Mar 2023 19:03

Instrument :

MSVOA\_X

ClientSampleId :

MW-02

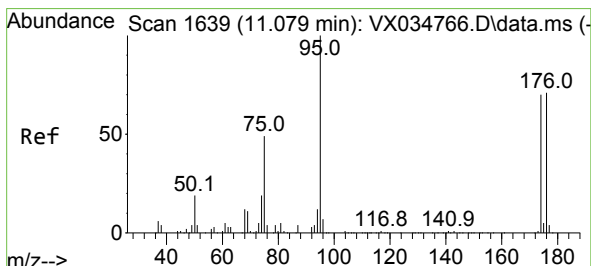
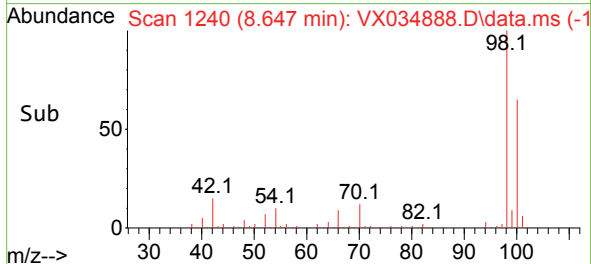
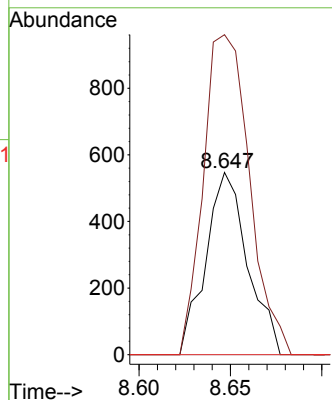
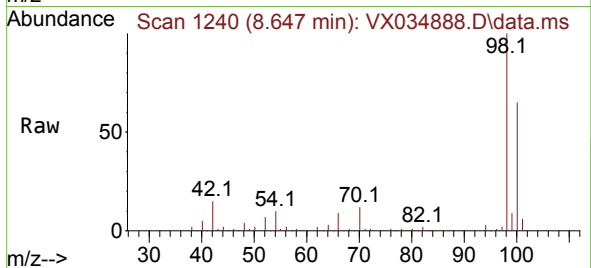
Tgt Ion: 43 Resp: 871

Ion Ratio Lower Upper

43 100

58 194.0 29.9 44.9#

85 0.0 13.2 19.8#



#60

4-Bromofluorobenzene

Concen: 31.574 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX034888.D

Acq: 31 Mar 2023 19:03

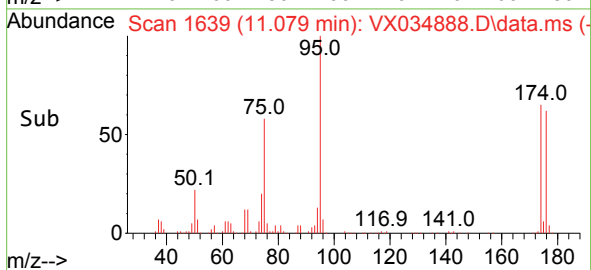
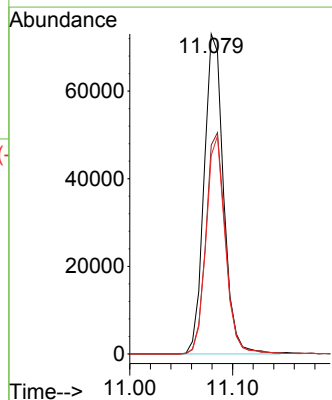
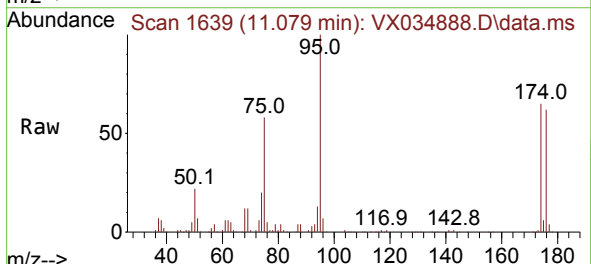
Tgt Ion: 95 Resp: 96172

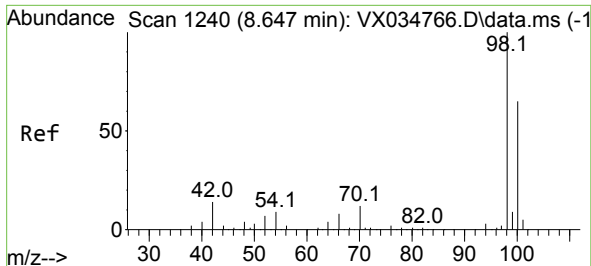
Ion Ratio Lower Upper

95 100

174 69.3 0.2 0.4#

176 67.3 0.2 0.2#

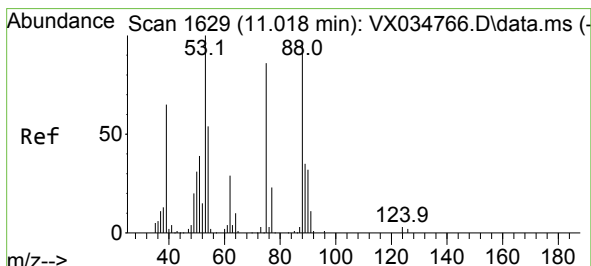
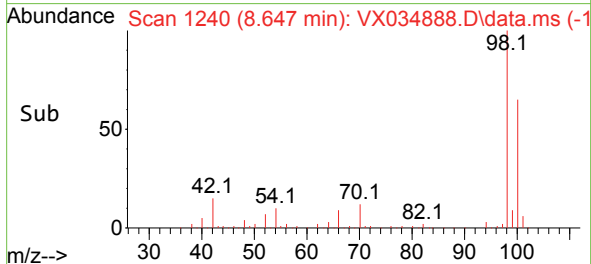
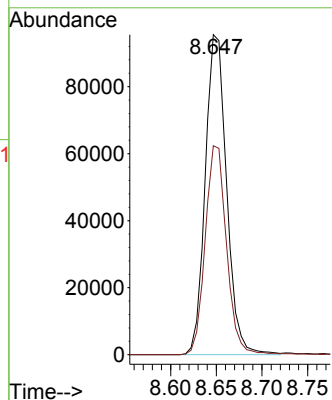
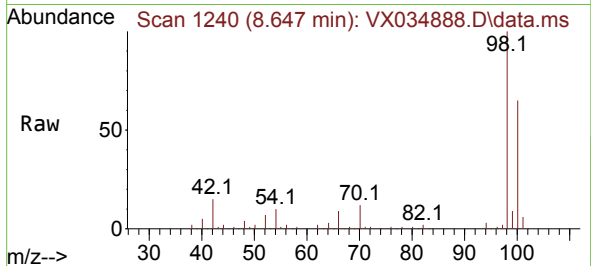




#63  
Toluene-d8  
Concen: 29.947 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX034888.D  
Acq: 31 Mar 2023 19:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-02

Tgt Ion: 98 Resp: 155135  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.1 78.1



#77  
t-1,4-Dichloro-2-butene  
Concen: 54.621 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX034888.D  
Acq: 31 Mar 2023 19:03

Tgt Ion: 75 Resp: 54264  
Ion Ratio Lower Upper  
75 100  
53 0.0 58.2 174.6#  
89 0.0 20.6 61.8#

