

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX033021\  
 Data File : VX021650.D  
 Acq On : 30 Mar 2021 23:53  
 Operator : JC/MD  
 Sample : M1843-02DL 4X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW179D1-20210324DL

Quant Time: Mar 31 06:10:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 24 12:25:26 2021  
 Response via : Initial Calibration

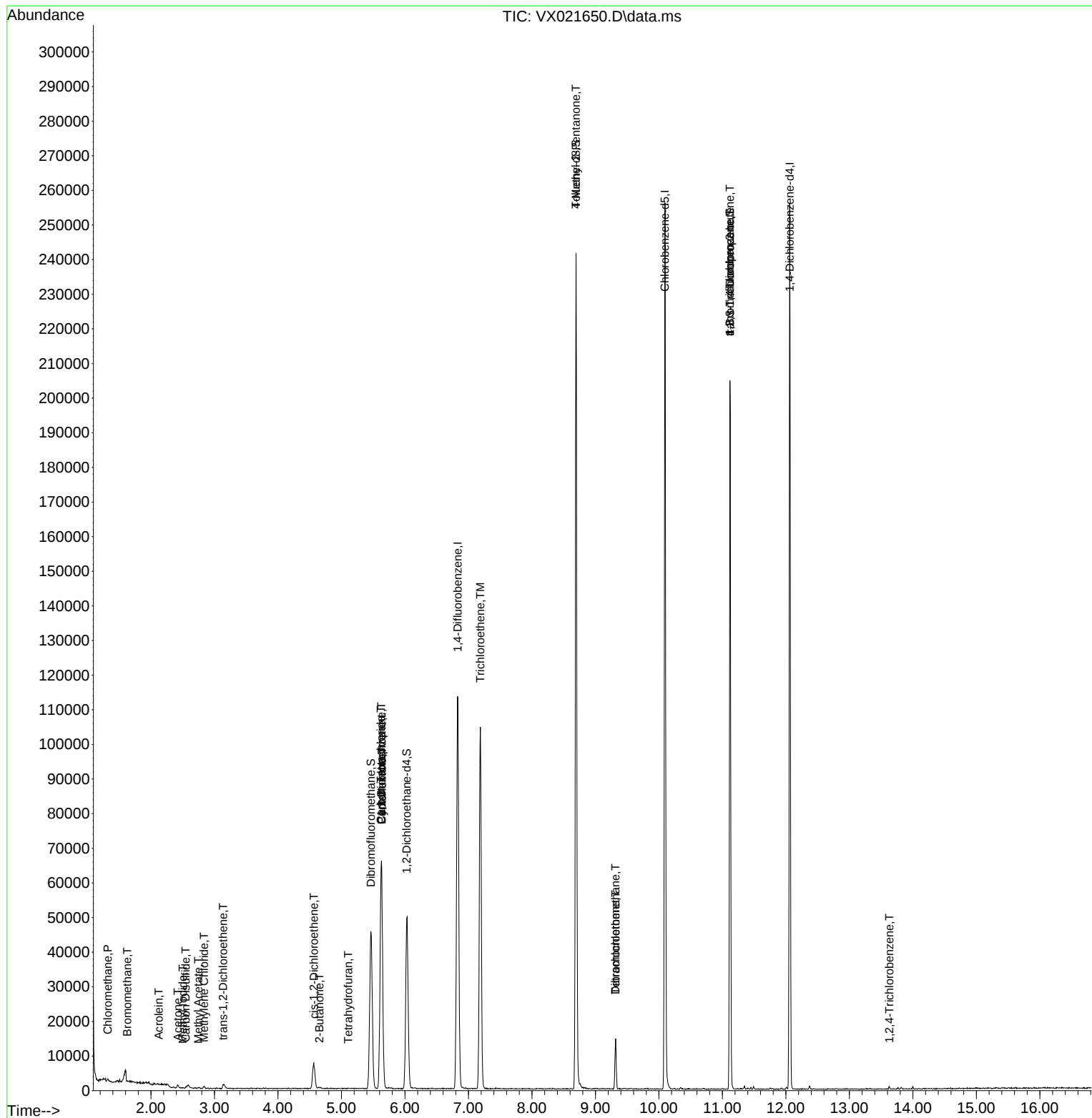
| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) Pentafluorobenzene         | 5.635          | 168  | 57472              | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.829          | 114  | 106640             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094         | 117  | 105882             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.059         | 152  | 46512              | 50.00 | ug/l   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.029          | 65   | 49338              | 51.59 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 103.18% |       |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 37930              | 50.07 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.14% |       |        |          |
| 50) Toluene-d8                | 8.694          | 98   | 132661             | 49.15 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 98.30%  |       |        |          |
| 62) 4-Bromofluorobenzene      | 11.118         | 95   | 51345              | 48.93 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 97.86%  |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       | Qvalue |          |
| 3) Chloromethane              | 1.317          | 50   | 1428               | 2.01  | ug/l   | 94       |
| 5) Bromomethane               | 1.628          | 94   | 107                | 0.41  | ug/l   | 81       |
| 10) Methyl Iodide             | 2.499          | 142  | 46                 | 6.73  | ug/l # | 42       |
| 13) Acrolein                  | 2.123          | 56   | 20                 | 4.54  | ug/l # | 1        |
| 16) Acetone                   | 2.423          | 43   | 855                | 2.36  | ug/l # | 84       |
| 17) Carbon Disulfide          | 2.546          | 76   | 495                | 0.30  | ug/l # | 75       |
| 18) Methyl Acetate            | 2.746          | 43   | 271                | 0.26  | ug/l # | 47       |
| 20) Methylene Chloride        | 2.834          | 84   | 232                | 0.33  | ug/l # | 90       |
| 21) trans-1,2-Dichloroethene  | 3.134          | 96   | 457                | 0.72  | ug/l   | 93       |
| 25) 2-Butanone                | 4.652          | 43   | 126                | 0.23  | ug/l # | 45       |
| 27) cis-1,2-Dichloroethene    | 4.564          | 96   | 4120               | 5.58  | ug/l   | 98       |
| 29) Tetrahydrofuran           | 5.105          | 42   | 105                | 0.30  | ug/l # | 27       |
| 31) Cyclohexane               | 5.635          | 56   | 1656               | 1.57  | ug/l # | 50       |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 5135               | 4.91  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.623          | 117  | 6187               | 5.51  | ug/l # | 16       |
| 44) Trichloroethene           | 7.188          | 130  | 37317              | 47.66 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.694          | 43   | 728                | 0.60  | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.318          | 129  | 2590               | 2.99  | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.318          | 164  | 2363               | 3.33  | ug/l # | 83       |
| 76) 1,2,3-Trichloropropane    | 11.118         | 75   | 29286              | 27.05 | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.118         | 75   | 29286              | 82.38 | ug/l # | 12       |
| 93) 1,2,4-Trichlorobenzene    | 13.630         | 180  | 199                | 0.21  | ug/l # | 73       |
| -----                         |                |      |                    |       |        |          |

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

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ClientSampleId :  
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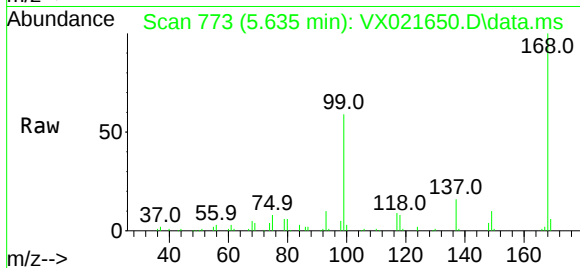
Quant Time: Mar 31 06:10:46 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X032421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 24 12:25:26 2021  
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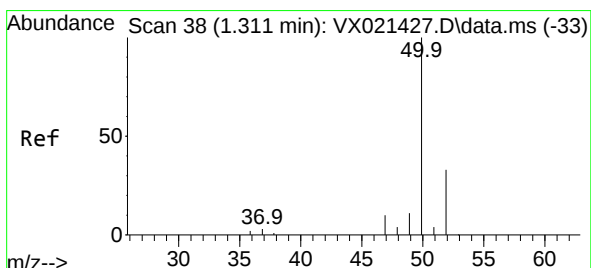
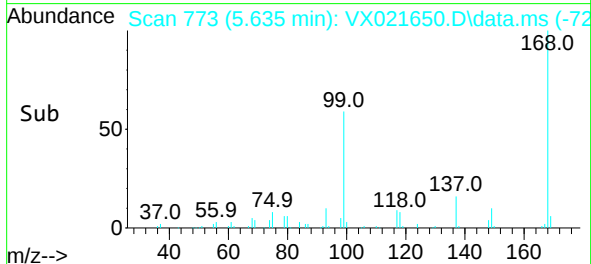
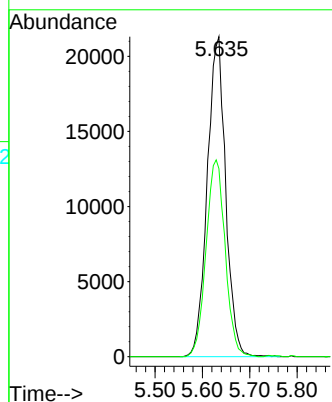


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.635 min Scan# 773  
Delta R.T. 0.006 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

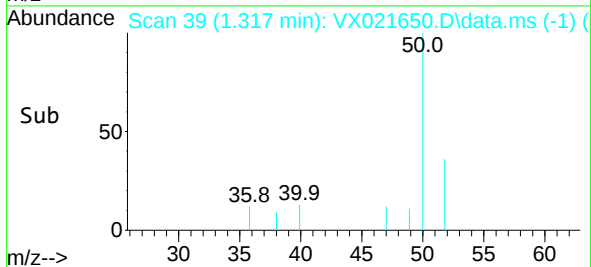
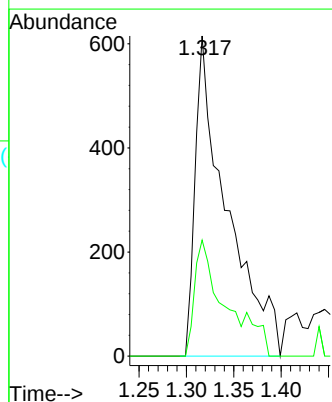
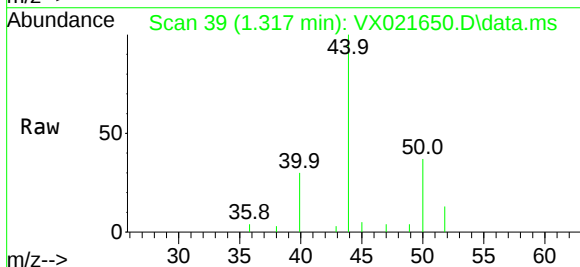


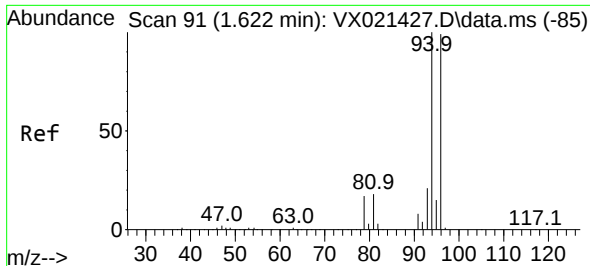
Tgt Ion:168 Resp: 57472  
Ion Ratio Lower Upper  
168 100  
99 58.8 45.8 68.6



#3  
Chloromethane  
Concen: 2.01 ug/l  
RT: 1.317 min Scan# 39  
Delta R.T. 0.006 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 50 Resp: 1428  
Ion Ratio Lower Upper  
50 100  
52 36.3 26.4 39.6

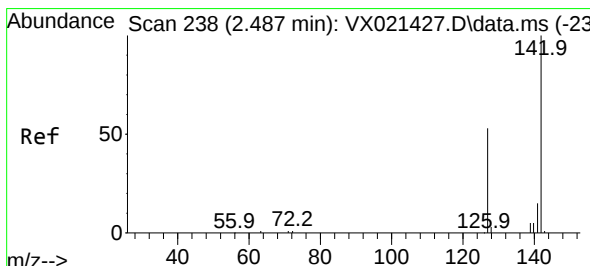
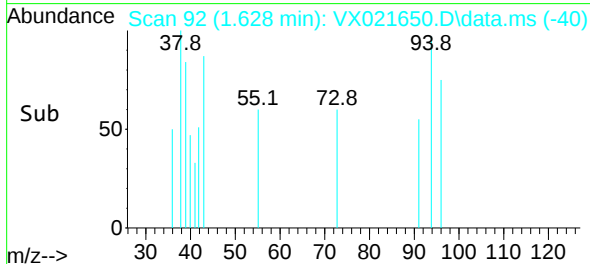
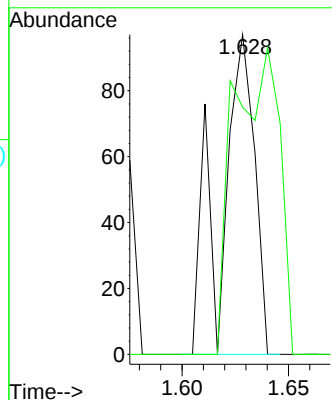
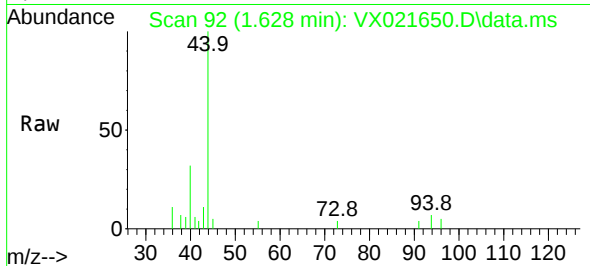




#5  
Bromomethane  
Concen: 0.41 ug/l  
RT: 1.628 min Scan# 92  
Delta R.T. 0.006 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

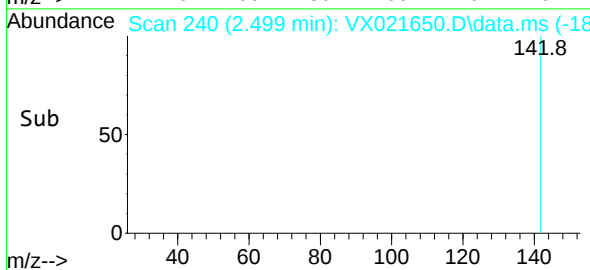
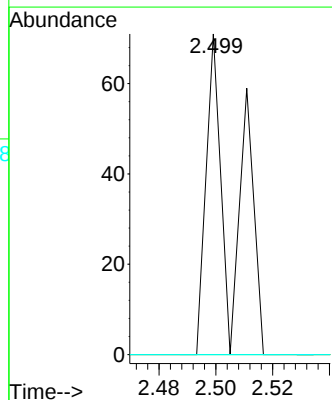
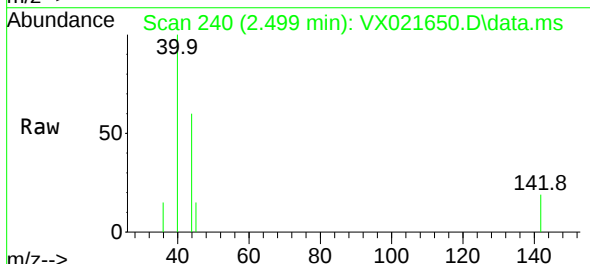
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

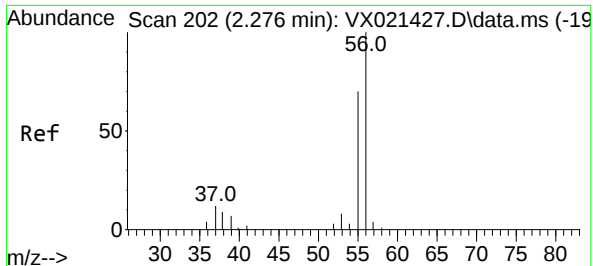
Tgt Ion: 94 Resp: 107  
Ion Ratio Lower Upper  
94 100  
96 77.3 76.4 114.6



#10  
Methyl Iodide  
Concen: 6.73 ug/l  
RT: 2.499 min Scan# 240  
Delta R.T. 0.012 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion:142 Resp: 46  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.3 49.9#  
141 0.0 11.4 17.0#

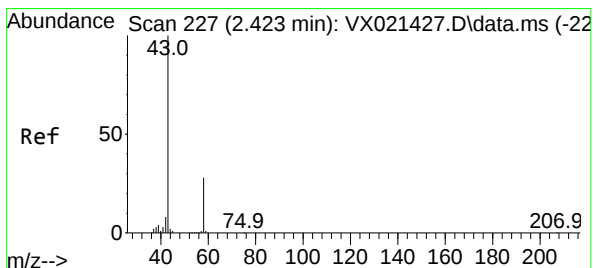
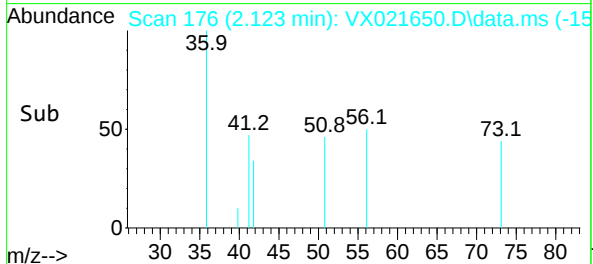
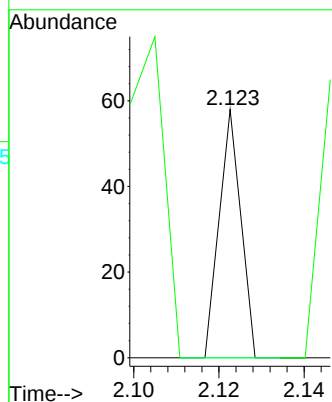
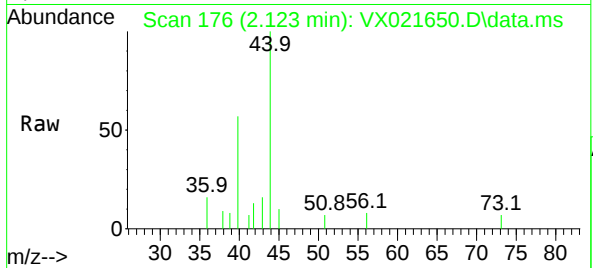




#13  
Acrolein  
Concen: 4.54 ug/l  
RT: 2.123 min Scan# 176  
Delta R.T. -0.153 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

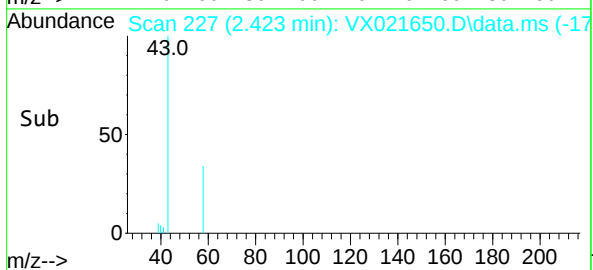
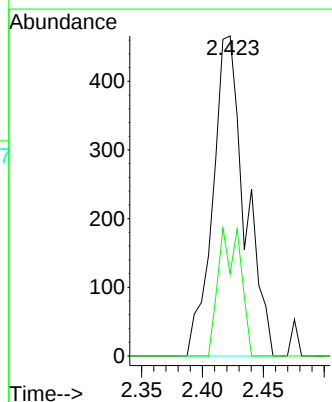
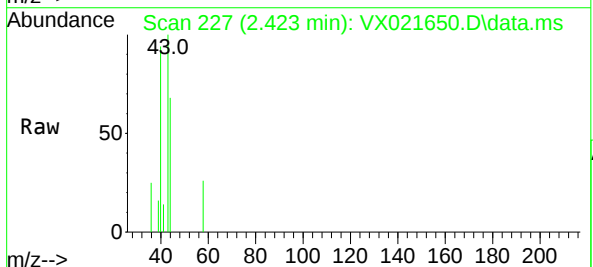
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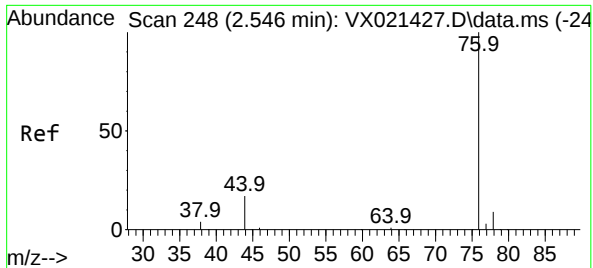
Tgt Ion: 56 Resp: 20  
Ion Ratio Lower Upper  
56 100  
55 235.0 56.4 84.6#



#16  
Acetone  
Concen: 2.36 ug/l  
RT: 2.423 min Scan# 227  
Delta R.T. -0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 43 Resp: 855  
Ion Ratio Lower Upper  
43 100  
58 25.8 27.8 41.8#

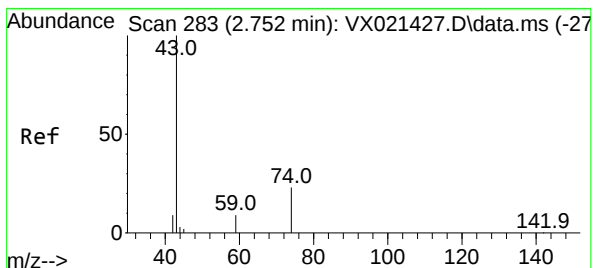
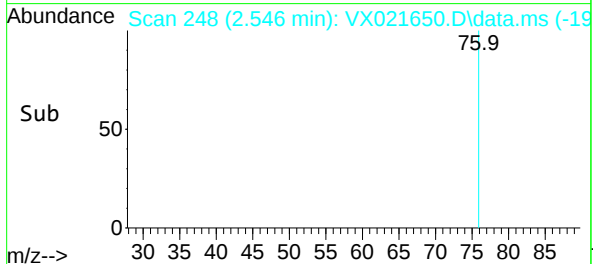
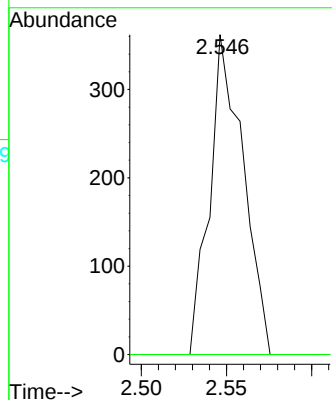
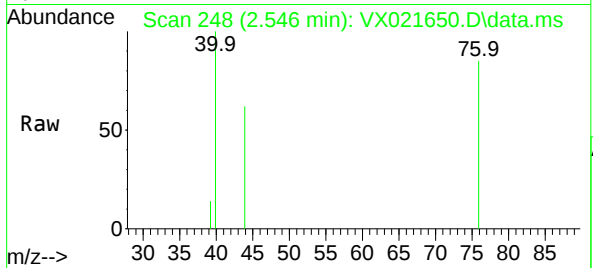




#17  
Carbon Disulfide  
Concen: 0.30 ug/l  
RT: 2.546 min Scan# 248  
Delta R.T. 0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

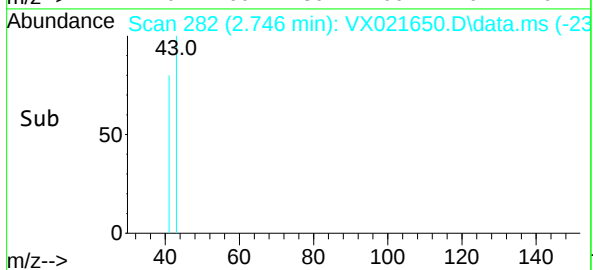
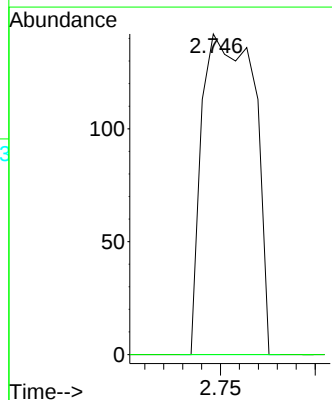
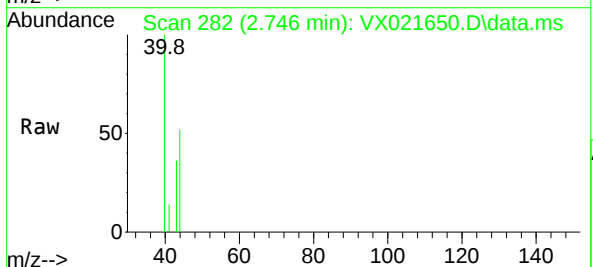
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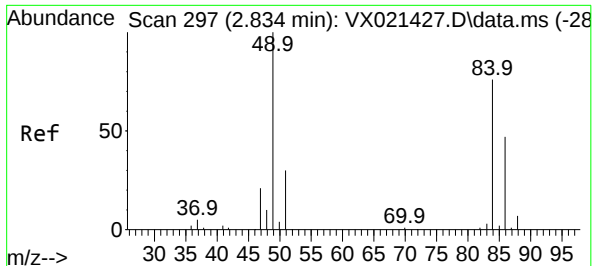
Tgt Ion: 76 Resp: 495  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#18  
Methyl Acetate  
Concen: 0.26 ug/l  
RT: 2.746 min Scan# 282  
Delta R.T. -0.006 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 43 Resp: 271  
Ion Ratio Lower Upper  
43 100  
74 0.0 21.9 32.9#



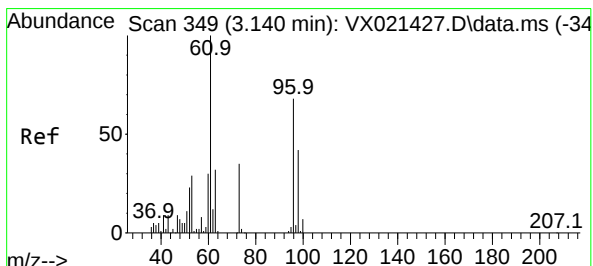
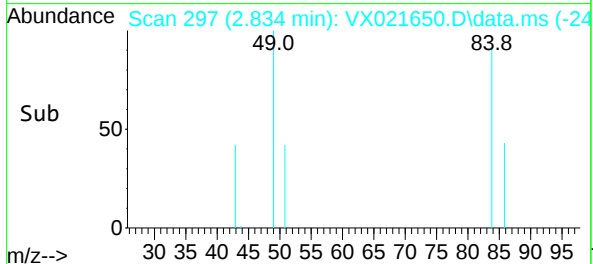
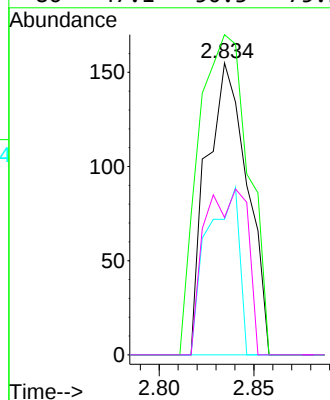
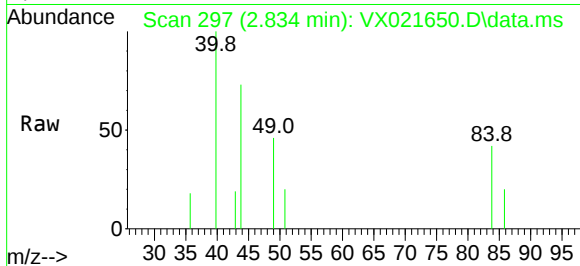


#20  
Methylene Chloride  
Concen: 0.33 ug/l  
RT: 2.834 min Scan# 297  
Delta R.T. 0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

Tgt Ion: 84 Resp: 232

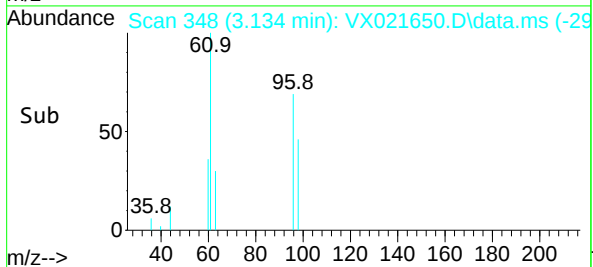
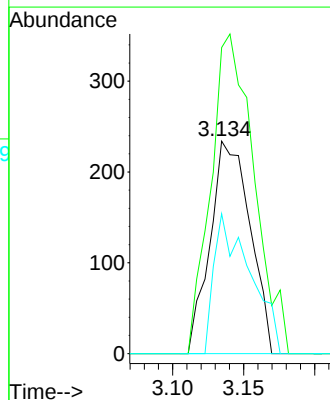
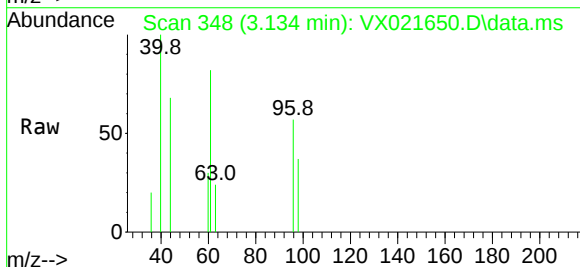
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 109.7 | 88.6  | 132.8 |
| 51  | 46.5  | 27.0  | 40.6# |
| 86  | 47.1  | 50.3  | 75.5# |

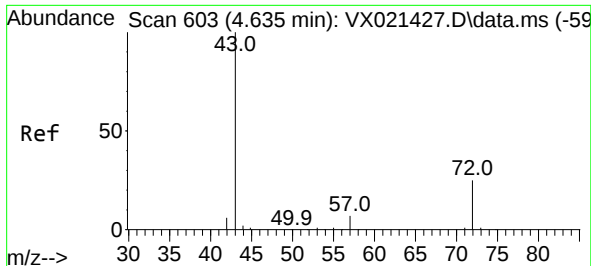


#21  
trans-1,2-Dichloroethene  
Concen: 0.72 ug/l  
RT: 3.134 min Scan# 348  
Delta R.T. -0.006 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 96 Resp: 457

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 144.0 | 107.7 | 161.5 |
| 98  | 65.8  | 50.4  | 75.6  |

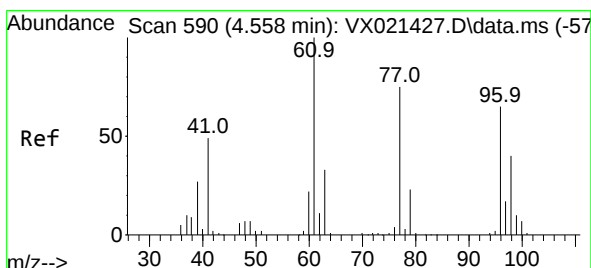
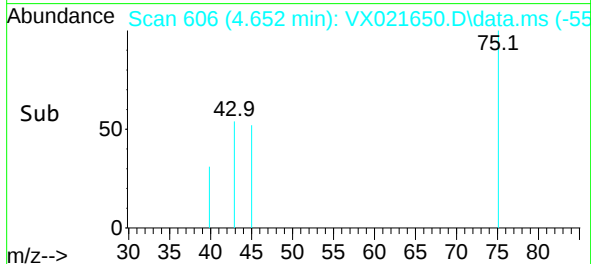
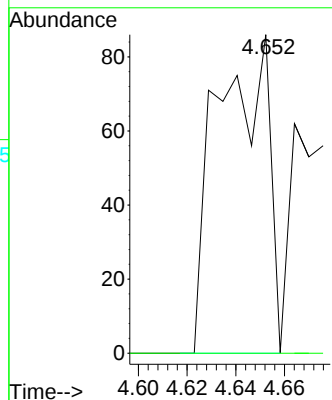
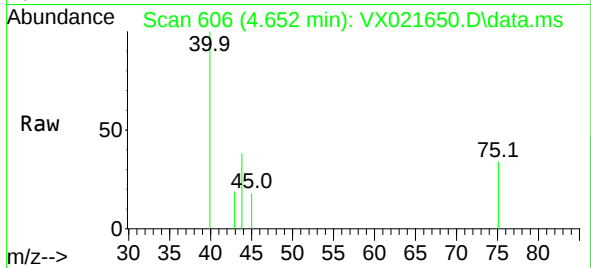




#25  
2-Butanone  
Concen: 0.23 ug/l  
RT: 4.652 min Scan# 606  
Delta R.T. 0.017 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

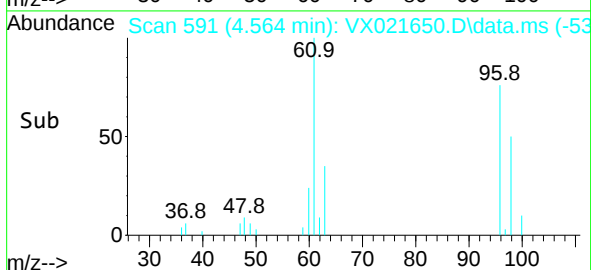
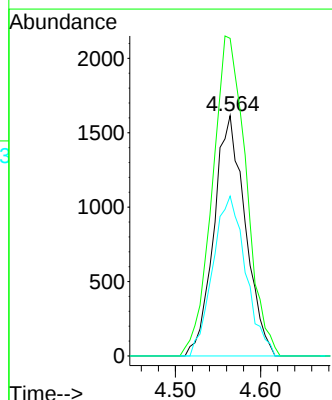
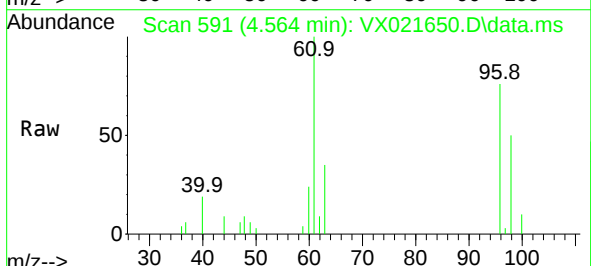
Instrument :  
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ClientSampleId :  
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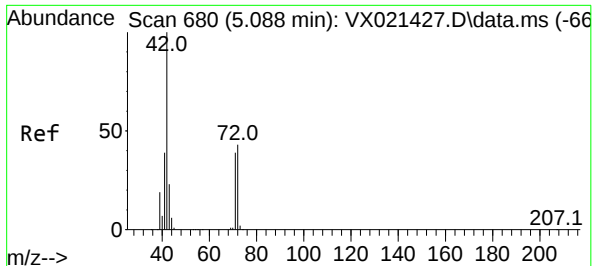
Tgt Ion: 43 Resp: 126  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#27  
cis-1,2-Dichloroethene  
Concen: 5.58 ug/l  
RT: 4.564 min Scan# 591  
Delta R.T. 0.006 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 96 Resp: 4120  
Ion Ratio Lower Upper  
96 100  
61 143.5 0.0 285.6  
98 69.9 0.0 129.6





#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 5.105 min Scan# 683

Delta R.T. 0.017 min

Lab File: VX021650.D

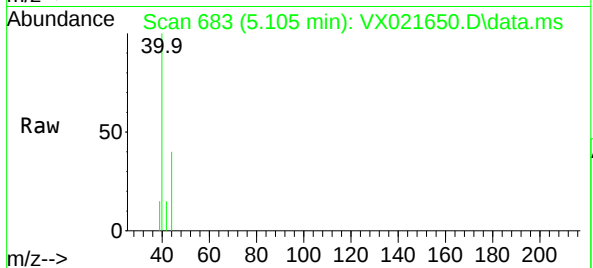
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Instrument :

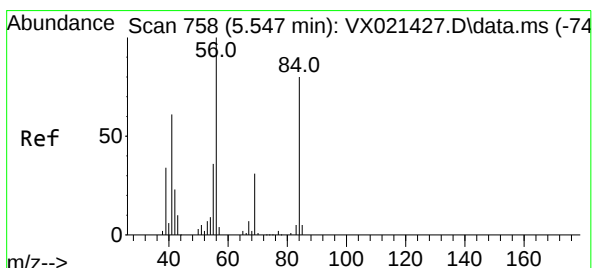
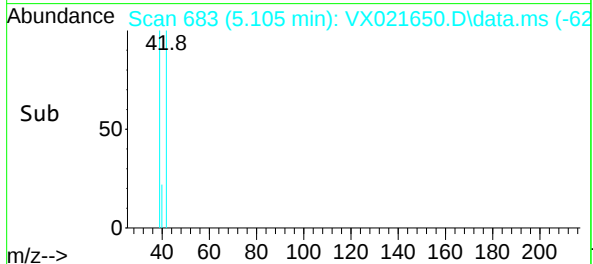
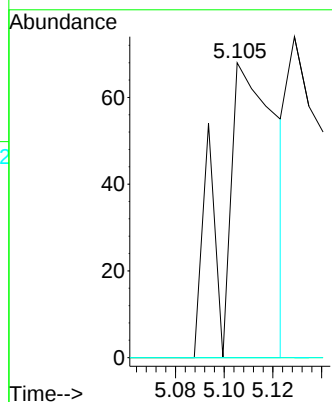
MSVOA\_X

ClientSampleId :

MW179D1-20210324DL



|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 105      |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 0.0 41.7 62.5# |
| 71          | 0.0 38.4 57.6# |



#31

Cyclohexane

Concen: 1.57 ug/l

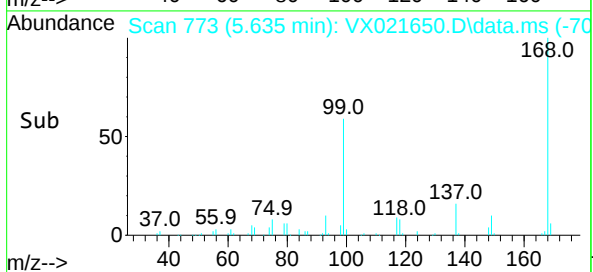
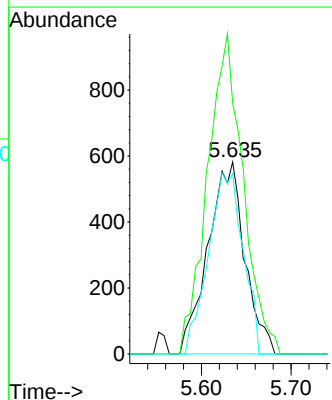
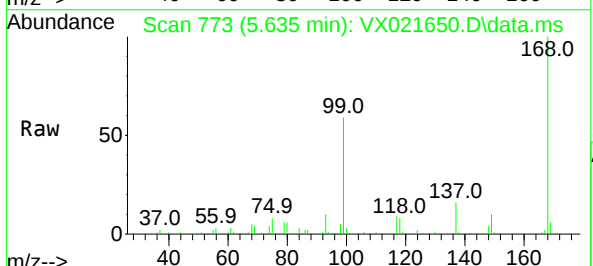
RT: 5.635 min Scan# 773

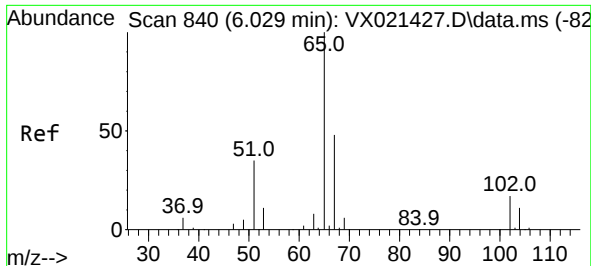
Delta R.T. 0.088 min

Lab File: VX021650.D

Acq: 30 Mar 2021 23:53

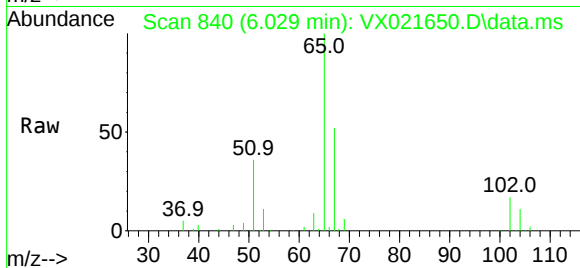
|             |                  |
|-------------|------------------|
| Tgt Ion: 56 | Resp: 1656       |
| Ion Ratio   | Lower Upper      |
| 56          | 100              |
| 69          | 130.6 25.3 37.9# |
| 84          | 94.0 71.4 107.0  |



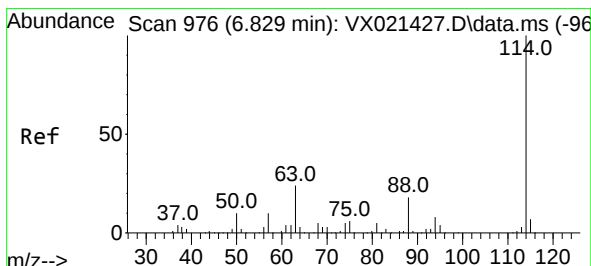
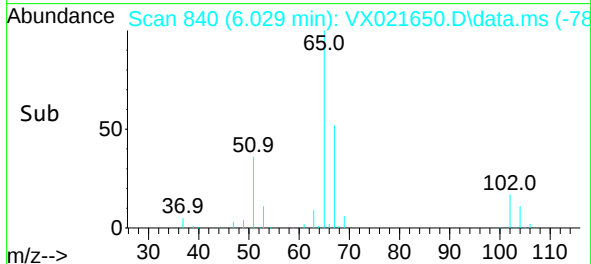
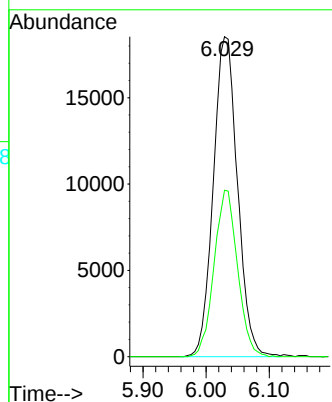


#33  
 1,2-Dichloroethane-d4  
 Concen: 51.59 ug/l  
 RT: 6.029 min Scan# 840  
 Delta R.T. -0.000 min  
 Lab File: VX021650.D  
 Acq: 30 Mar 2021 23:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW179D1-20210324DL

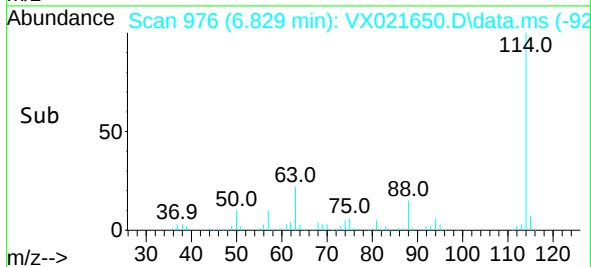
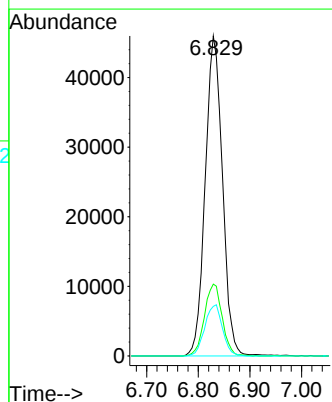
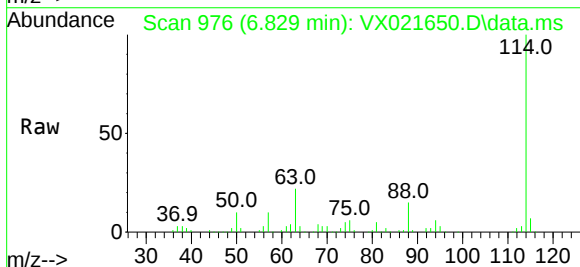


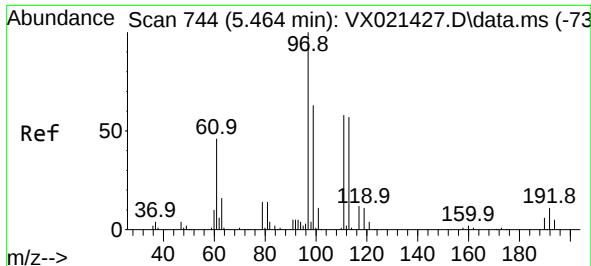
Tgt Ion: 65 Resp: 49338  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.829 min Scan# 976  
 Delta R.T. 0.000 min  
 Lab File: VX021650.D  
 Acq: 30 Mar 2021 23:53

Tgt Ion: 114 Resp: 106640  
 Ion Ratio Lower Upper  
 114 100  
 63 22.5 0.0 40.8  
 88 15.5 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.07 ug/l

RT: 5.464 min Scan# 744

Delta R.T. 0.000 min

Lab File: VX021650.D

Acq: 30 Mar 2021 23:53

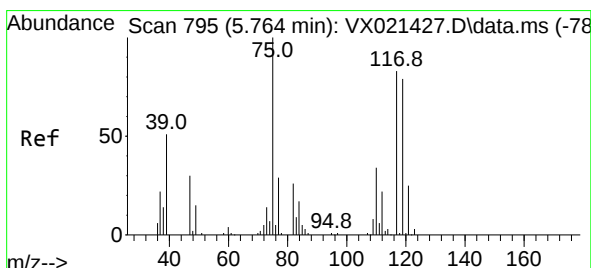
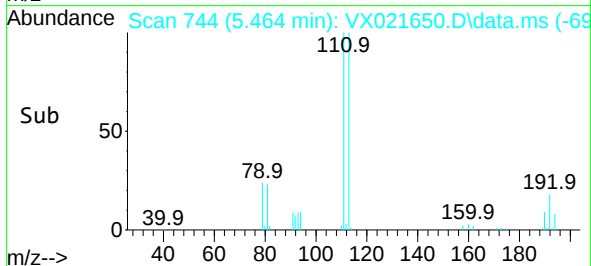
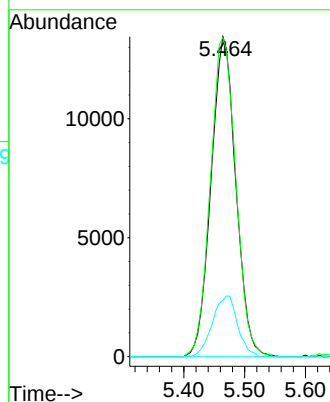
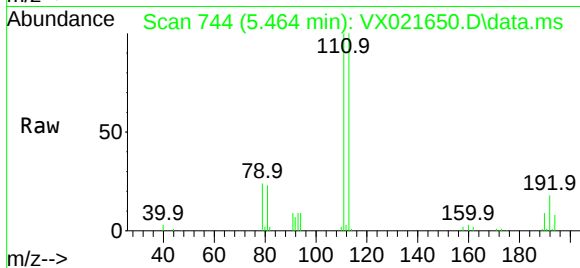
Tgt Ion:113 Resp: 37930

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

192 19.2 16.7 25.1



#36

1,1-Dichloropropene

Concen: 4.91 ug/l

RT: 5.629 min Scan# 772

Delta R.T. -0.135 min

Lab File: VX021650.D

Acq: 30 Mar 2021 23:53

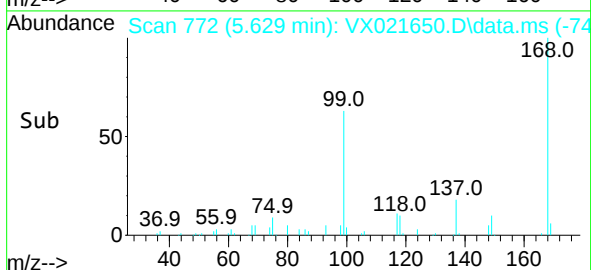
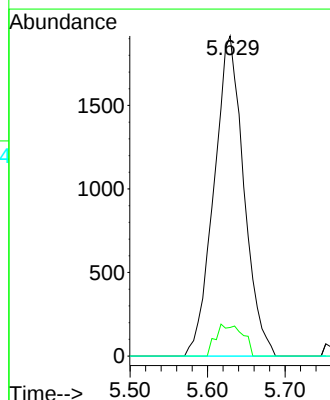
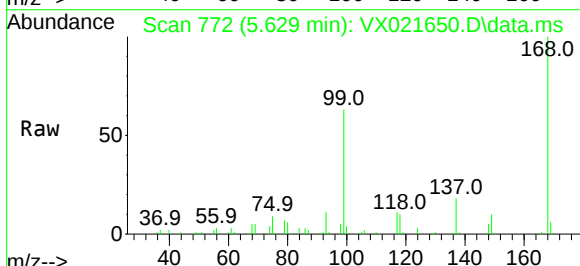
Tgt Ion: 75 Resp: 5135

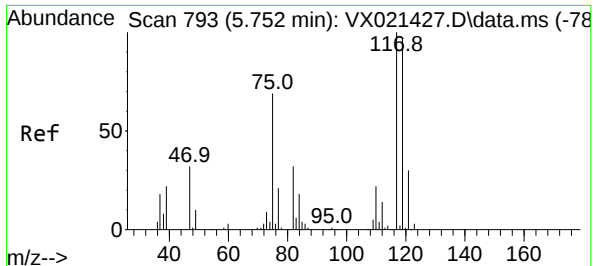
Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

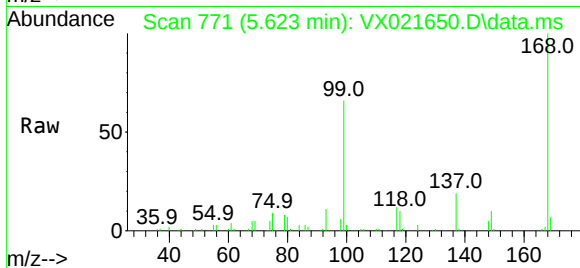
77 0.0 25.3 37.9#



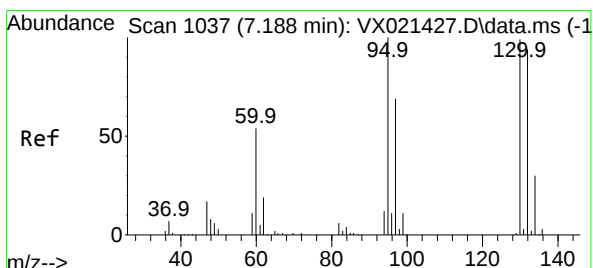
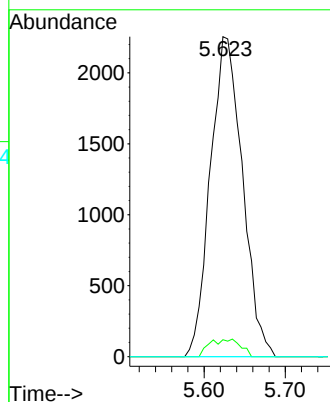
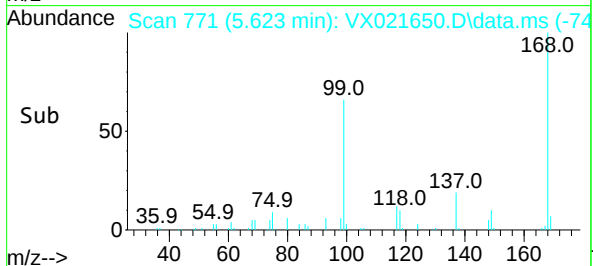


#38  
Carbon Tetrachloride  
Concen: 5.51 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.129 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

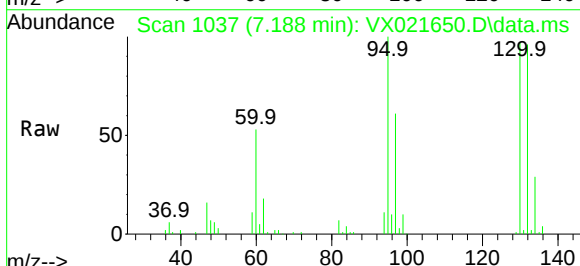
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL



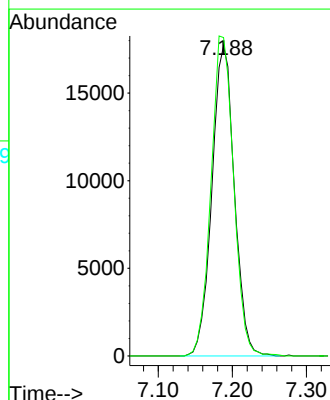
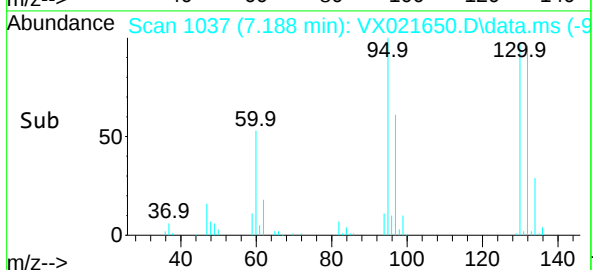
Tgt Ion:117 Resp: 6187  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.2 114.2#  
121 0.0 24.8 37.2#

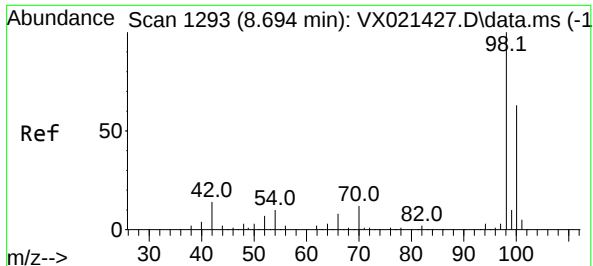


#44  
Trichloroethene  
Concen: 47.66 ug/l  
RT: 7.188 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53



Tgt Ion:130 Resp: 37317  
Ion Ratio Lower Upper  
130 100  
95 102.7 0.0 198.0





#50

Toluene-d8

Concen: 49.15 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. 0.000 min

Lab File: VX021650.D

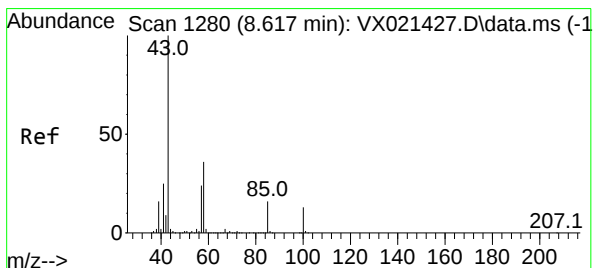
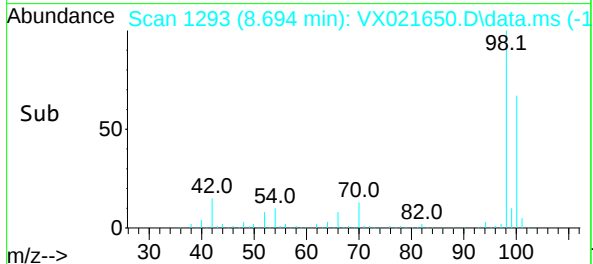
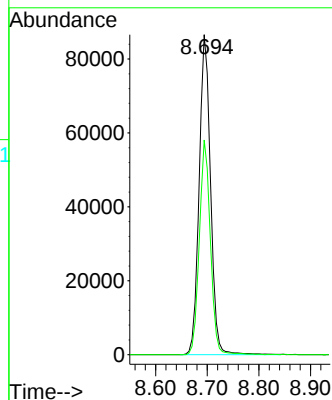
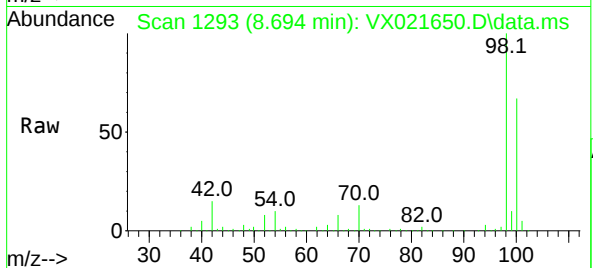
Acq: 30 Mar 2021 23:53

Tgt Ion: 98 Resp: 132661

Ion Ratio Lower Upper

98 100

100 65.1 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.60 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. 0.077 min

Lab File: VX021650.D

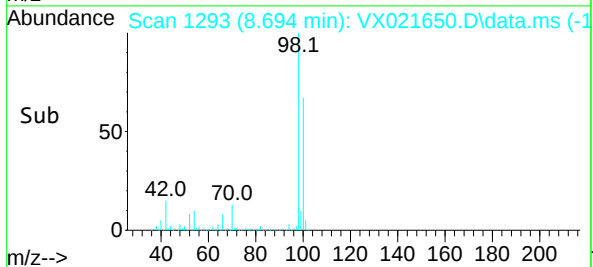
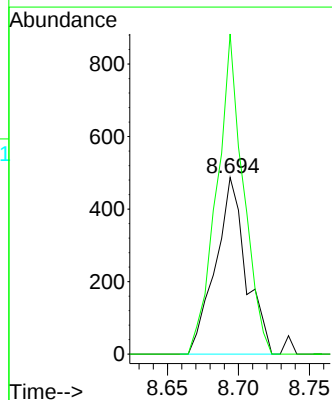
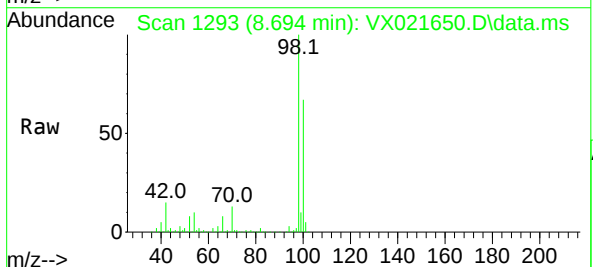
Acq: 30 Mar 2021 23:53

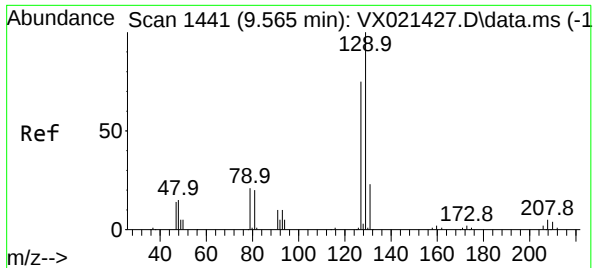
Tgt Ion: 43 Resp: 728

Ion Ratio Lower Upper

43 100

58 158.9 35.4 53.0#

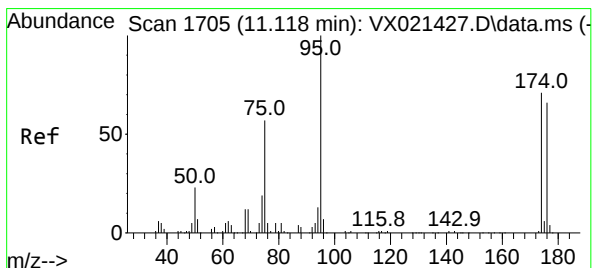
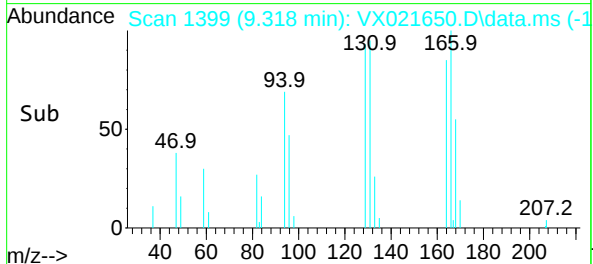
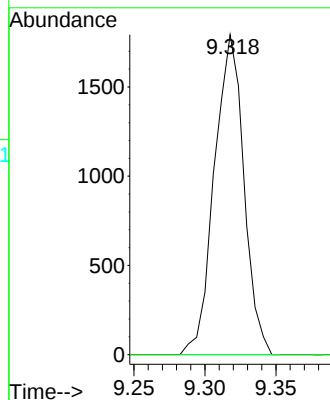
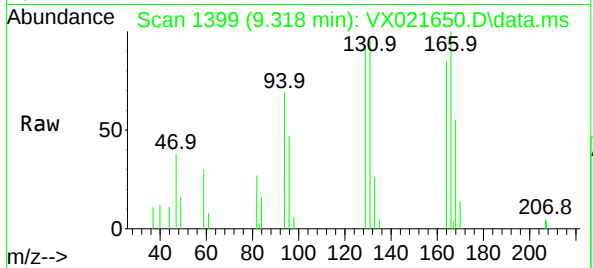




#60  
Dibromochloromethane  
Concen: 2.99 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.247 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

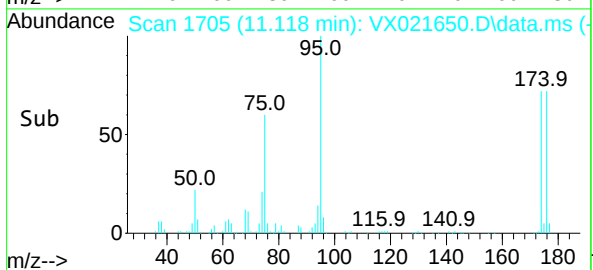
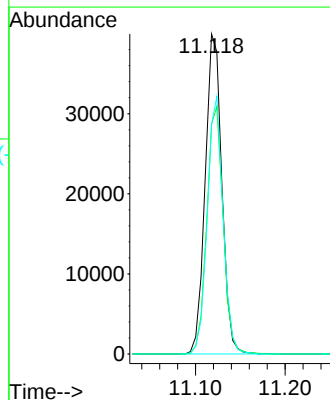
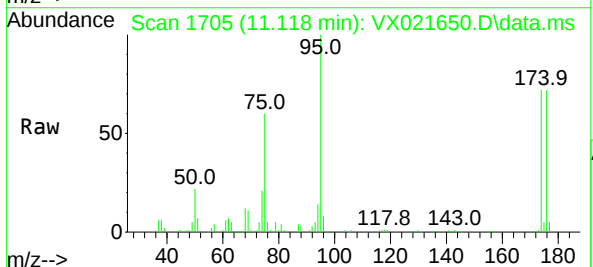
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

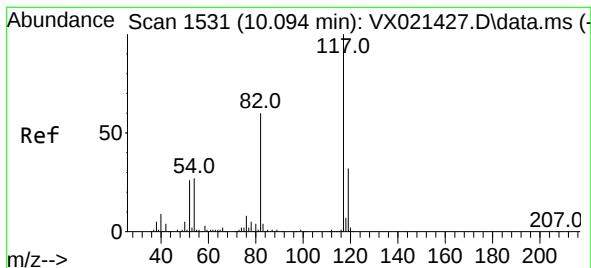
Tgt Ion:129 Resp: 2590  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 48.93 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 95 Resp: 51345  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 154.6  
176 76.3 0.0 155.8

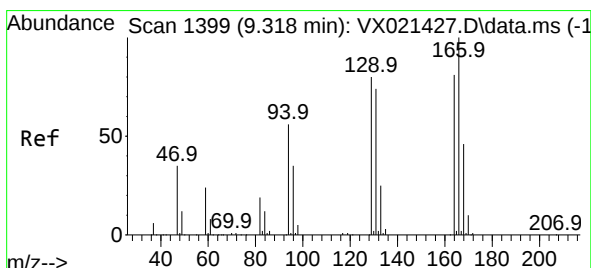
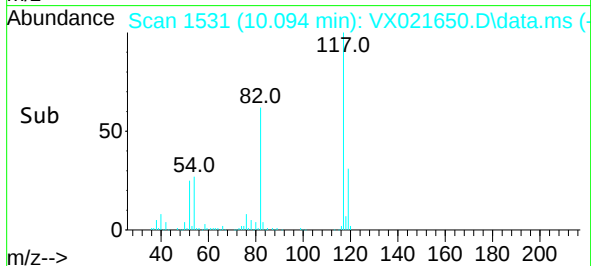
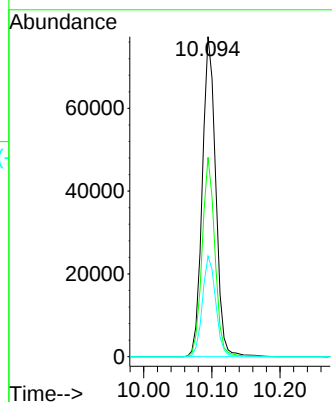
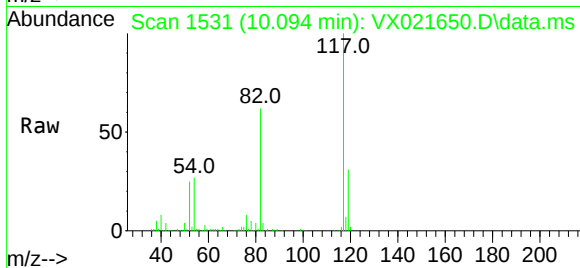




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. 0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

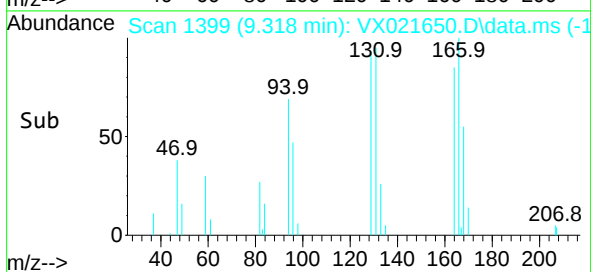
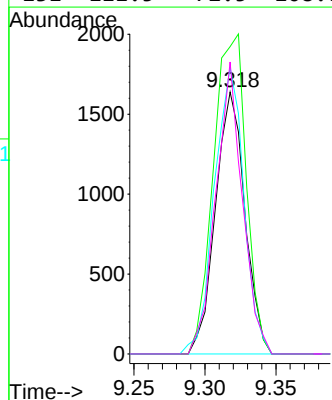
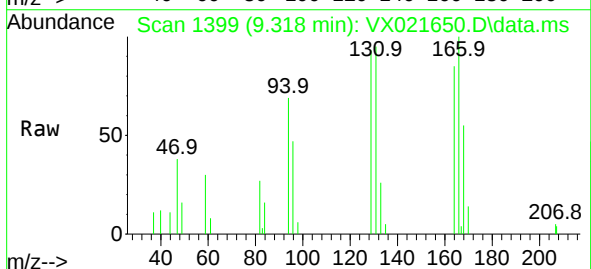
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

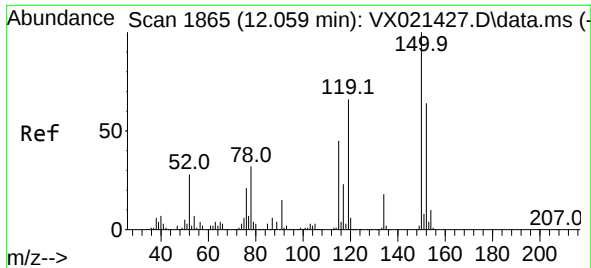
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 105882 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 62.3  | 47.4  | 71.2   |
| 119       | 31.5  | 26.6  | 39.8   |



#64  
Tetrachloroethene  
Concen: 3.33 ug/l  
RT: 9.318 min Scan# 1399  
Delta R.T. -0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 2363   |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 166       | 117.3 | 103.4 | 155.2  |
| 129       | 109.4 | 70.8  | 106.2# |
| 131       | 111.5 | 72.5  | 108.7# |

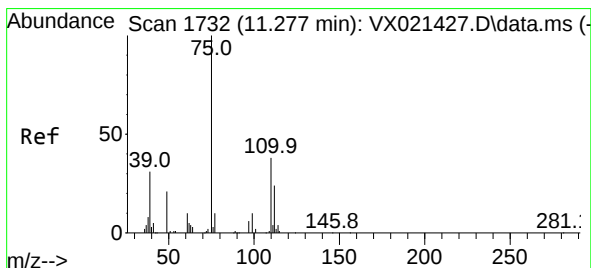
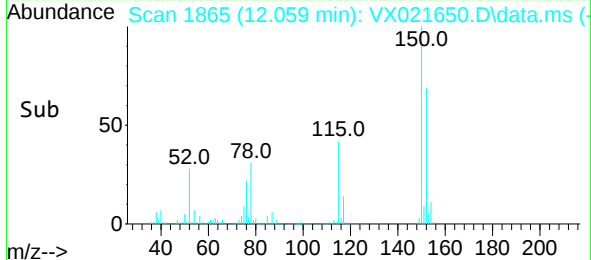
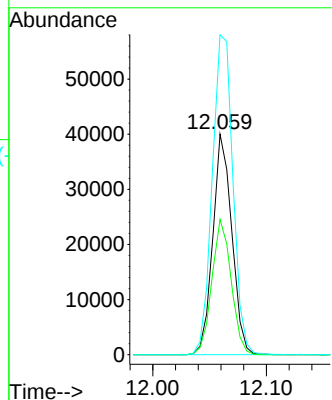
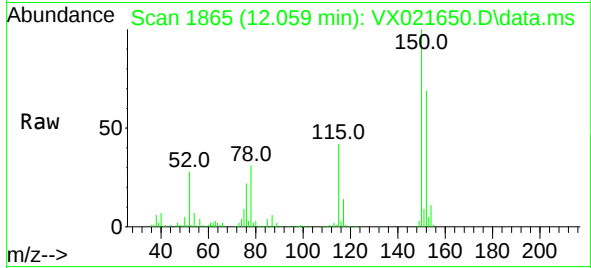




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.059 min Scan# 1865  
Delta R.T. 0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

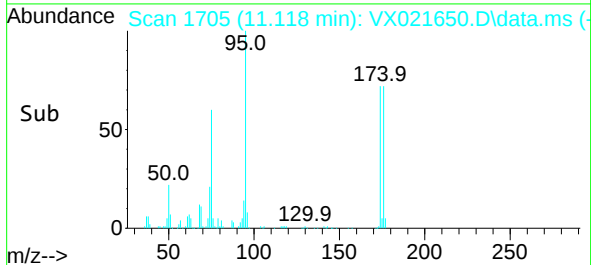
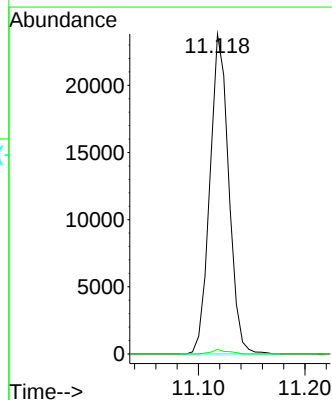
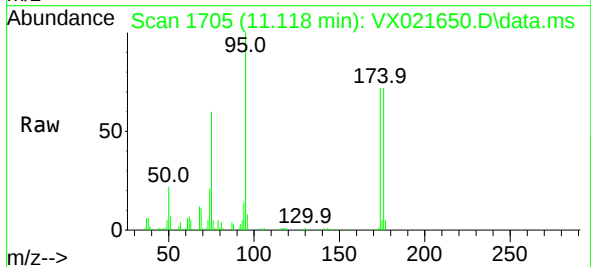
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

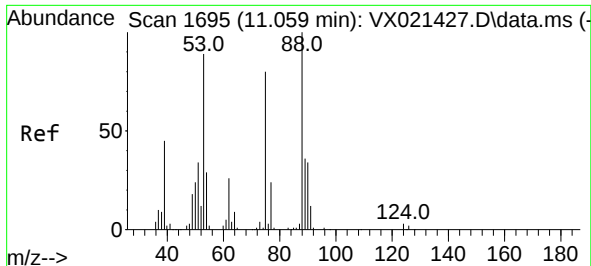
Tgt Ion:152 Resp: 46512  
Ion Ratio Lower Upper  
152 100  
115 62.1 41.1 123.3  
150 157.7 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 27.05 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.159 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion: 75 Resp: 29286  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#

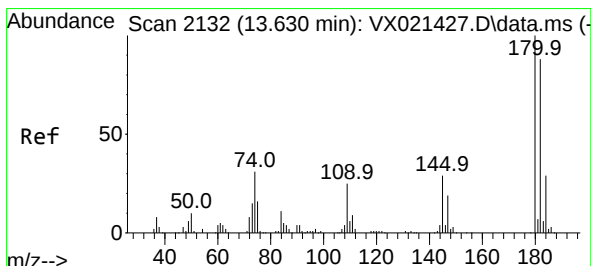
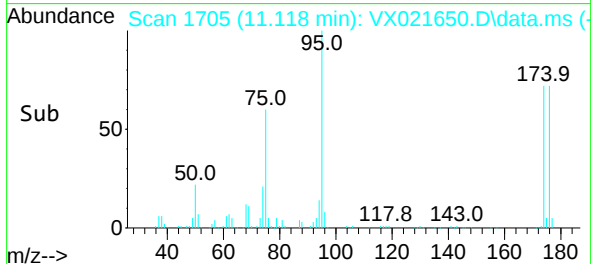
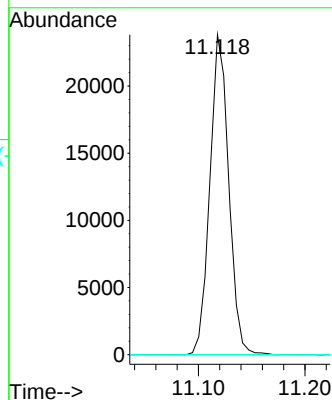
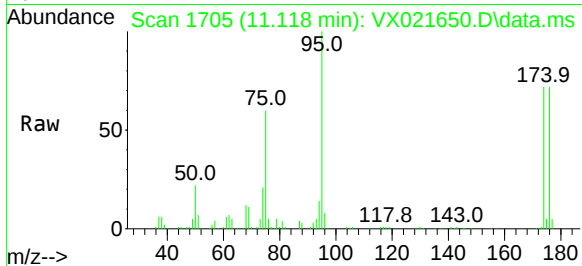




#81  
trans-1,4-Dichloro-2-butene  
Concen: 82.38 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. 0.059 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW179D1-20210324DL

Tgt Ion: 75 Resp: 29286  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.21 ug/l  
RT: 13.630 min Scan# 2132  
Delta R.T. -0.000 min  
Lab File: VX021650.D  
Acq: 30 Mar 2021 23:53

Tgt Ion:180 Resp: 199  
Ion Ratio Lower Upper  
180 100  
182 118.6 47.7 143.1  
145 9.5 15.0 45.0#

