

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082622\  
 Data File : VX030836.D  
 Acq On : 26 Aug 2022 19:47  
 Operator : JC/MD  
 Sample : N4278-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-MW15811-GW-20220818

Quant Time: Aug 27 02:41:49 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X082522W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 26 02:03:28 2022  
 Response via : Initial Calibration

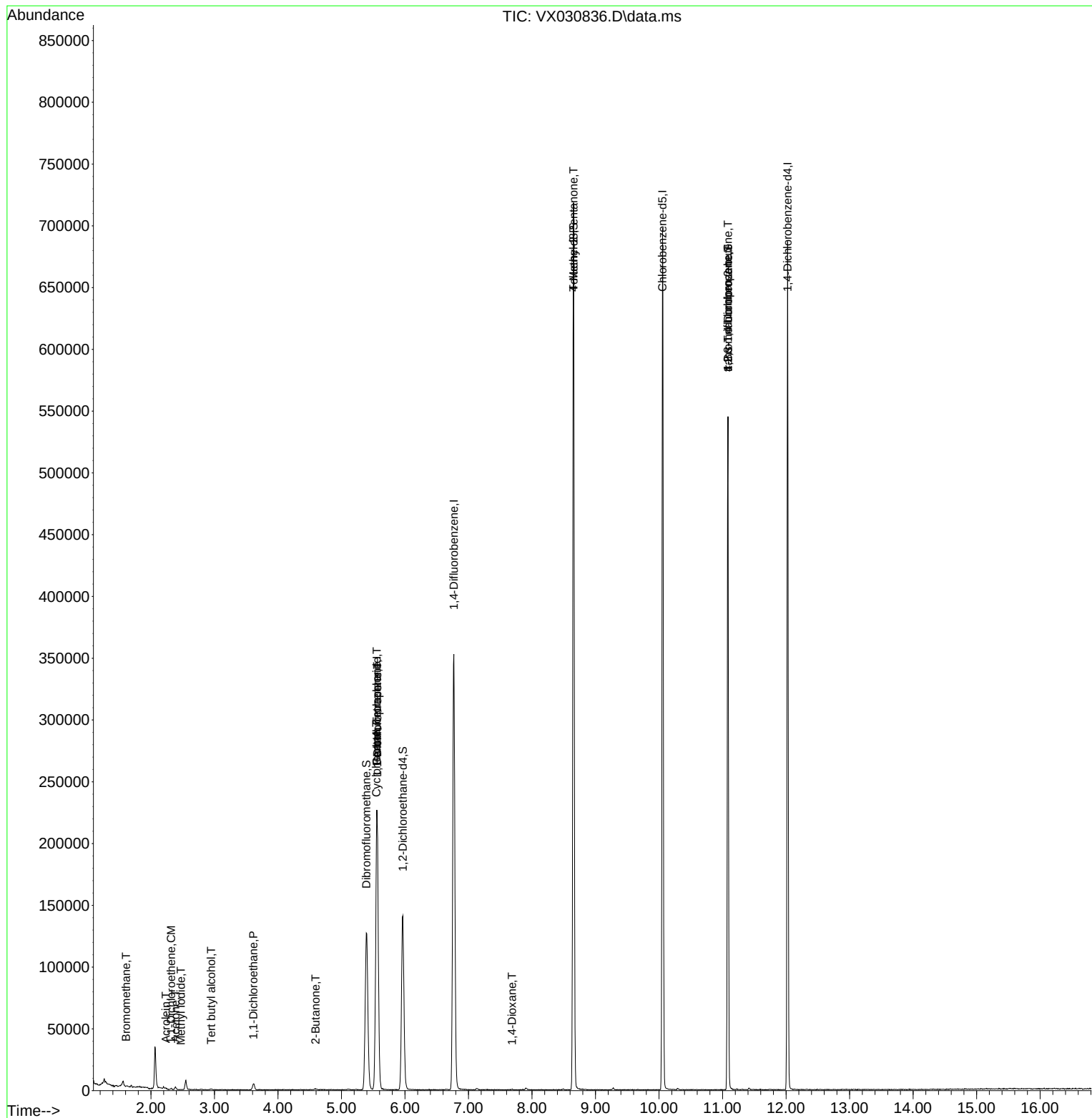
| Compound                      | R.T.           | QIon | Response            | Conc          | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------------|-------|----------|
| -----                         |                |      |                     |               |       |          |
| Internal Standards            |                |      |                     |               |       |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 211815              | 50.000        | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 365168              | 50.000        | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 322115              | 50.000        | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 138913              | 50.000        | ug/l  | 0.00     |
|                               |                |      |                     |               |       |          |
| System Monitoring Compounds   |                |      |                     |               |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 136548              | 54.805        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 109.620% |               |       |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 113007              | 50.354        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.700% |               |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 423950              | 54.210        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 108.420% |               |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 141474              | 48.590        | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 97.180%  |               |       |          |
|                               |                |      |                     |               |       |          |
| Target Compounds              |                |      |                     |               |       | Qvalue   |
| 3) Chloromethane              | 1.294          | 50   | 548                 | Below Cal     |       | 98       |
| 5) Bromomethane               | 1.605          | 94   | 514                 | 0.521 ug/l #  |       | 2        |
| 6) Chloroethane               | 1.691          | 64   | 1069                | Below Cal #   |       | 85       |
| 10) Methyl Iodide             | 2.471          | 142  | 45                  | 4.054 ug/l #  |       | 45       |
| 11) Tert butyl alcohol        | 2.946          | 59   | 326                 | 0.603 ug/l #  |       | 74       |
| 12) 1,1-Dichloroethene        | 2.319          | 96   | 439                 | 0.229 ug/l #  |       | 77       |
| 13) Acrolein                  | 2.233          | 56   | 29                  | 10.110 ug/l # |       | 1        |
| 16) Acetone                   | 2.386          | 43   | 2316                | 2.012 ug/l #  |       | 82       |
| 17) Carbon Disulfide          | 2.508          | 76   | 208                 | Below Cal #   |       | 74       |
| 20) Methylene Chloride        | 2.794          | 84   | 95                  | Below Cal #   |       | 59       |
| 24) 1,1-Dichloroethane        | 3.611          | 63   | 5994                | 1.482 ug/l #  |       | 92       |
| 25) 2-Butanone                | 4.593          | 43   | 372                 | 0.201 ug/l #  |       | 48       |
| 31) Cyclohexane               | 5.550          | 56   | 4842                | 1.520 ug/l #  |       | 1        |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 16988               | 5.559 ug/l #  |       | 49       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 21364               | 6.627 ug/l #  |       | 18       |
| 49) 1,4-Dioxane               | 7.683          | 88   | 319                 | 4.754 ug/l #  |       | 60       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 1943                | 0.528 ug/l #  |       | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 71327               | 23.437 ug/l # |       | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 71327               | 75.617 ug/l # |       | 13       |
| -----                         |                |      |                     |               |       |          |

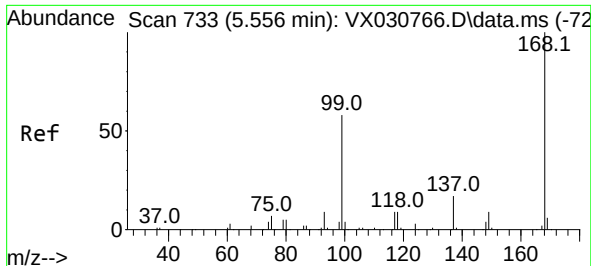
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Aug 26 02:03:28 2022  
Response via : Initial Calibration

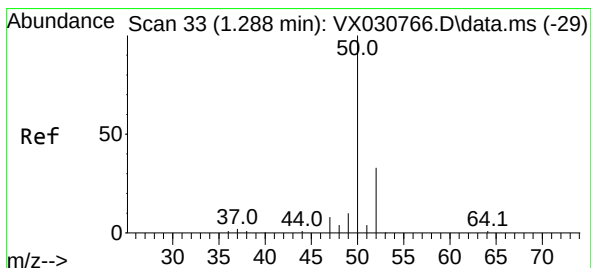
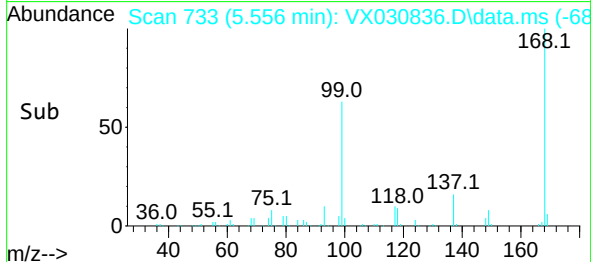
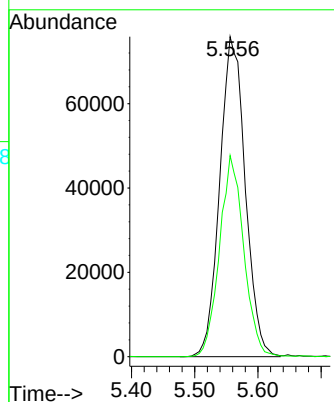
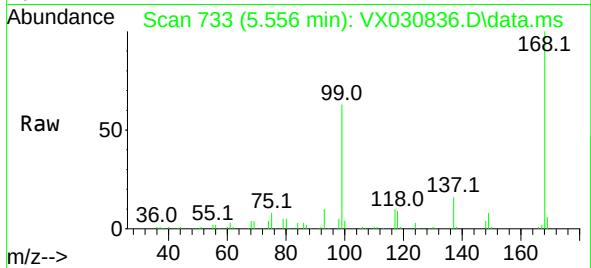




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

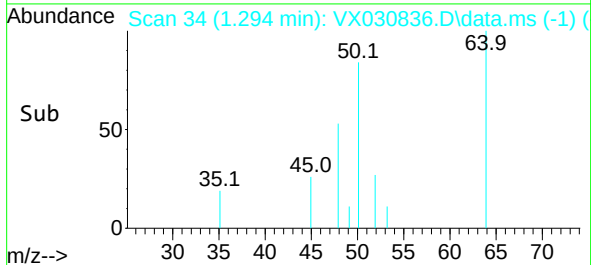
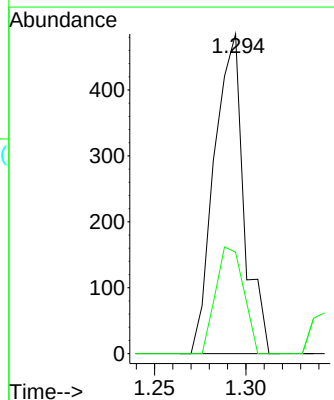
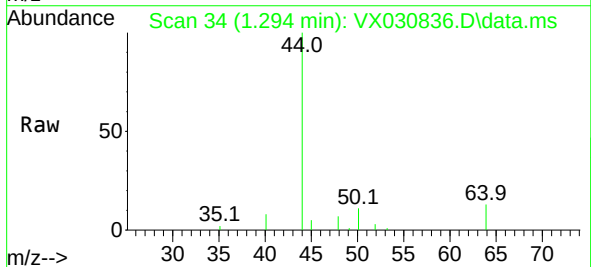
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-MW15811-GW-20220818

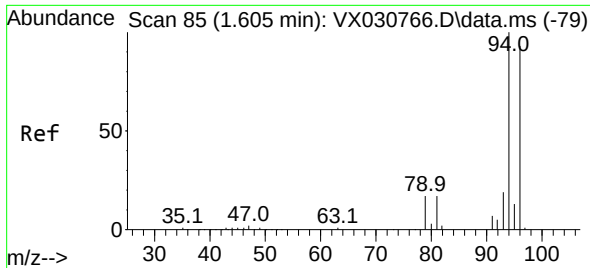
Tgt Ion:168 Resp: 211815  
Ion Ratio Lower Upper  
168 100  
99 62.9 44.0 66.0



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.294 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 50 Resp: 548  
Ion Ratio Lower Upper  
50 100  
52 31.8 26.3 39.5

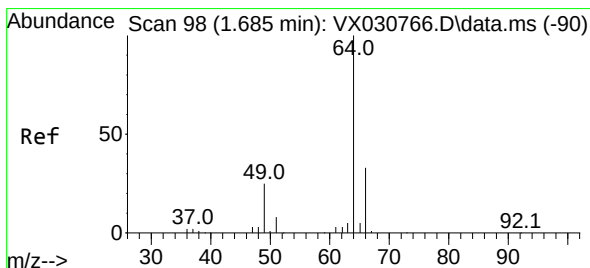
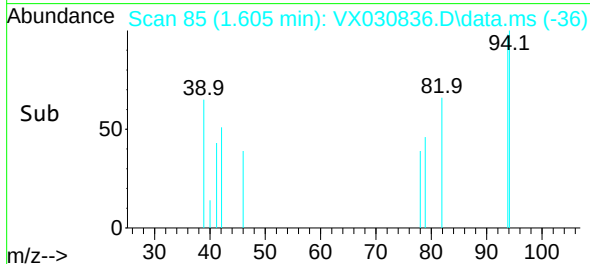
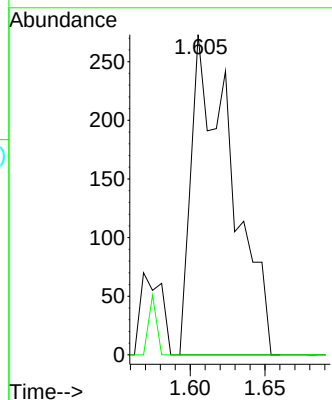
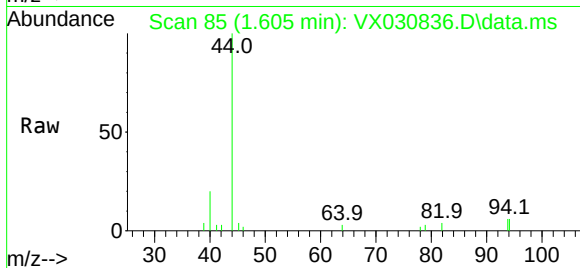




#5  
Bromomethane  
Concen: 0.521 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. -0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

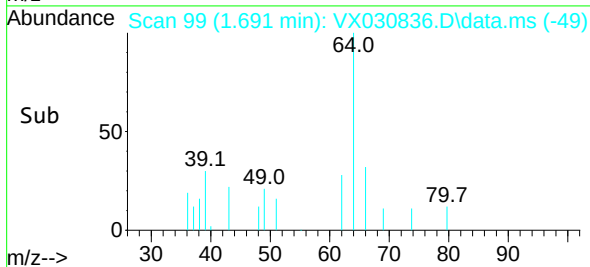
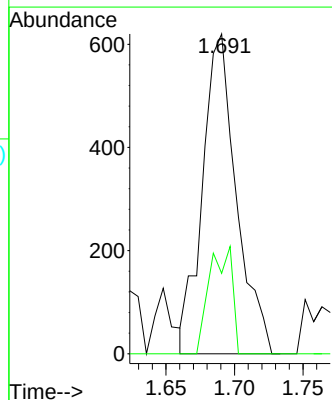
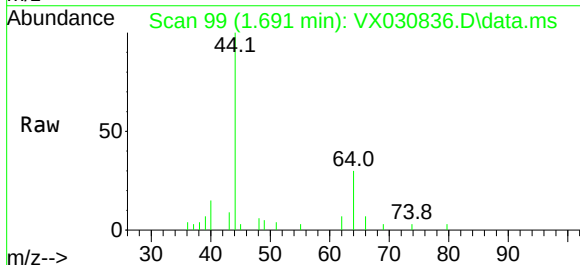
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-MW15811-GW-20220818

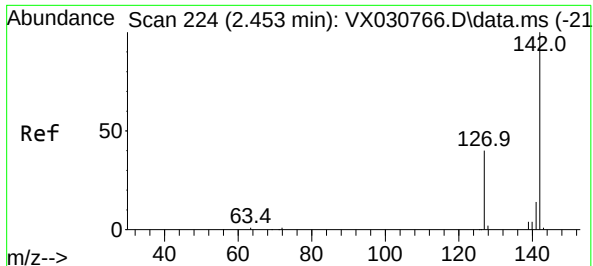
Tgt Ion: 94 Resp: 514  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.9 115.3#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.691 min Scan# 99  
Delta R.T. 0.006 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 64 Resp: 1069  
Ion Ratio Lower Upper  
64 100  
66 25.2 27.2 40.8#

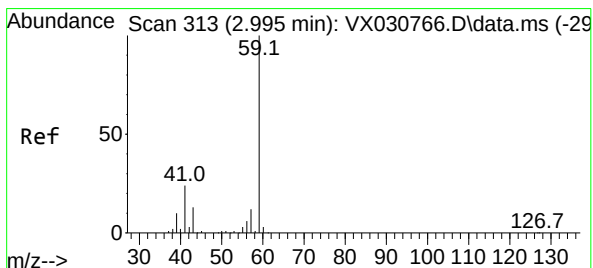
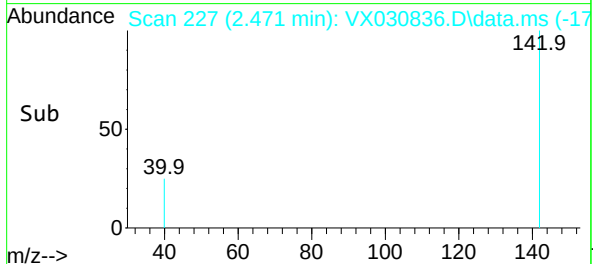
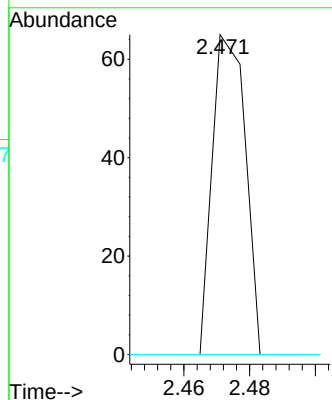
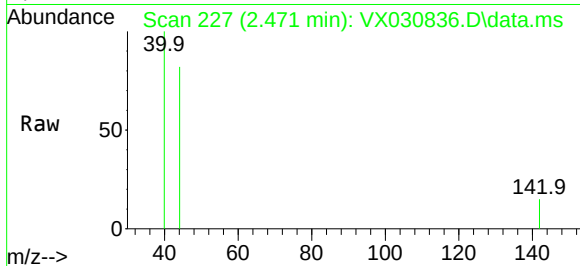




#10  
Methyl Iodide  
Concen: 4.054 ug/l  
RT: 2.471 min Scan# 21  
Delta R.T. 0.018 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

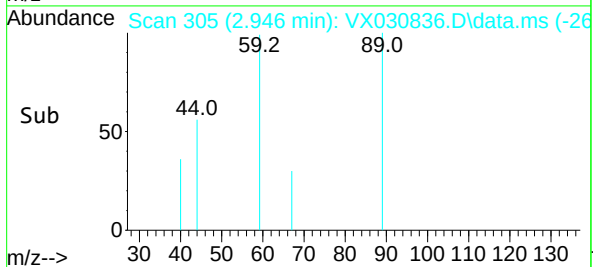
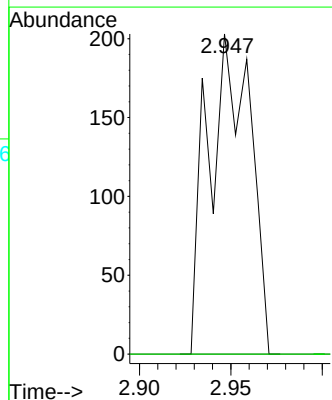
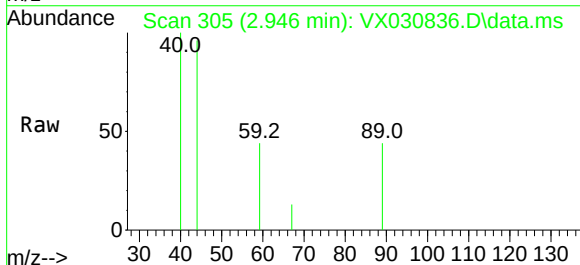
Instrument :  
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BP-TT-MW15811-GW-20220818

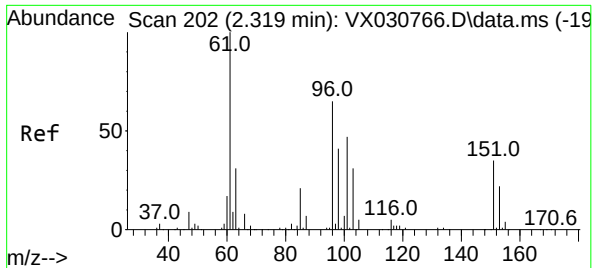
Tgt Ion:142 Resp: 45  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.2 45.2#  
141 0.0 11.3 16.9#



#11  
Tert butyl alcohol  
Concen: 0.603 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.049 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 59 Resp: 326  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#





#12

1,1-Dichloroethene

Concen: 0.229 ug/l

RT: 2.319 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX030836.D

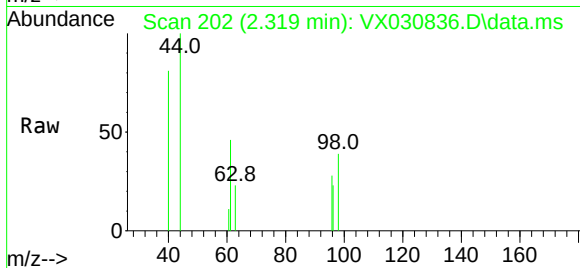
Acq: 26 Aug 2022 19:47

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-MW158I1-GW-20220818



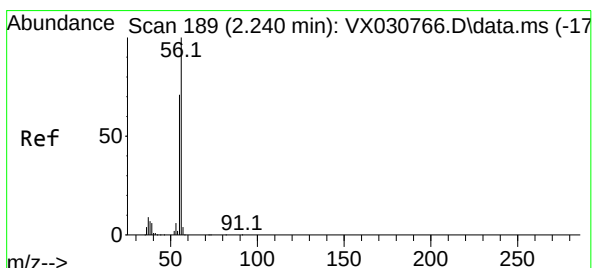
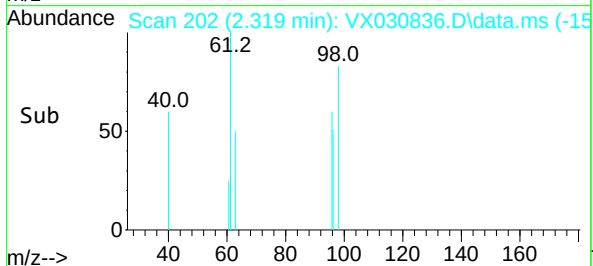
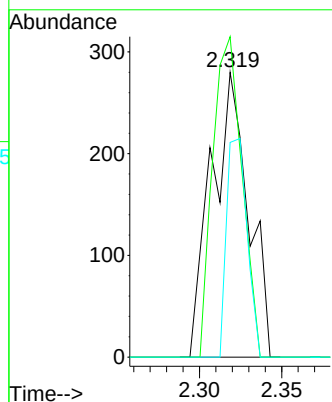
Tgt Ion: 96 Resp: 439

Ion Ratio Lower Upper

96 100

61 112.5 117.4 176.0#

98 75.4 52.2 78.4



#13

Acrolein

Concen: 10.110 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.007 min

Lab File: VX030836.D

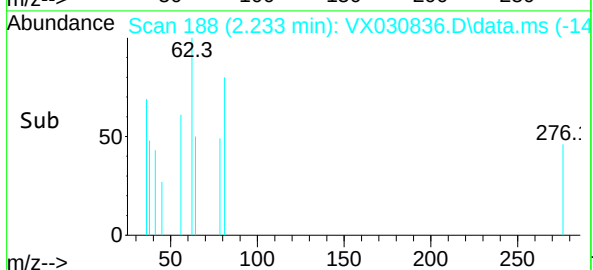
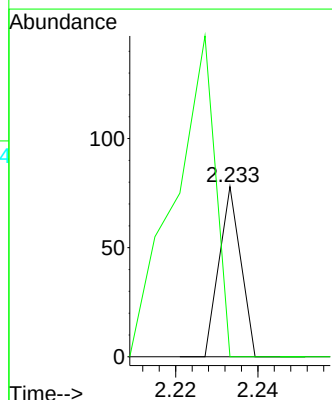
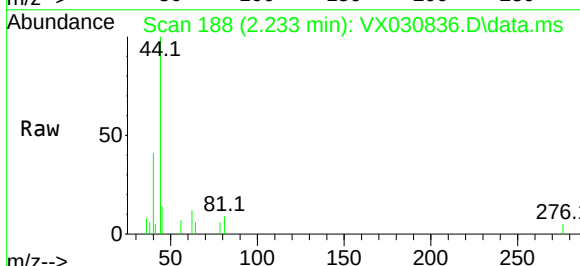
Acq: 26 Aug 2022 19:47

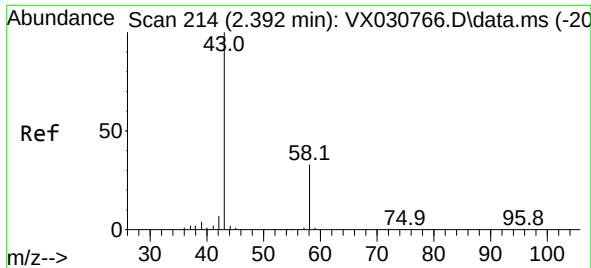
Tgt Ion: 56 Resp: 29

Ion Ratio Lower Upper

56 100

55 348.3 56.6 84.8#

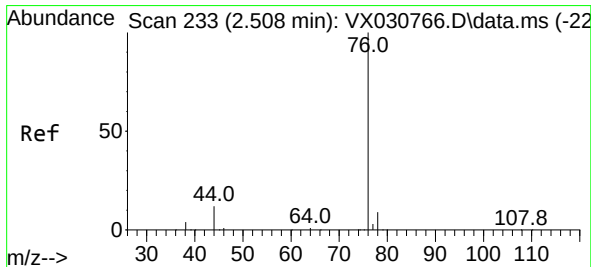
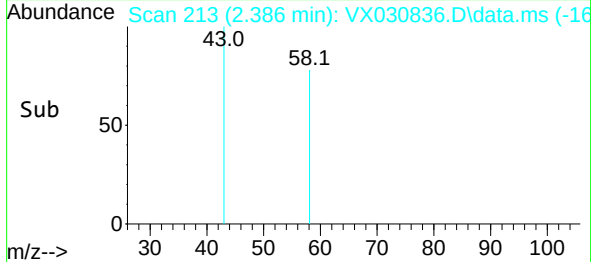
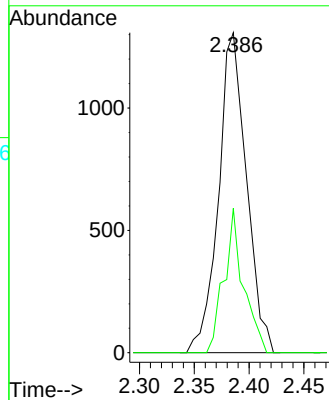
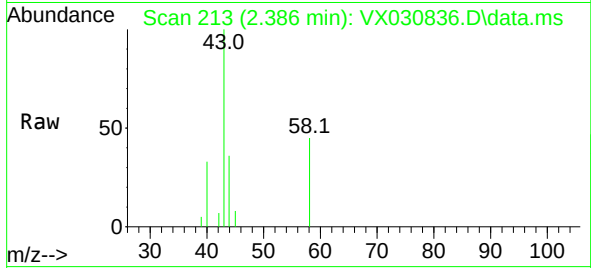




#16  
Acetone  
Concen: 2.012 ug/l  
RT: 2.386 min Scan# 214  
Delta R.T. -0.006 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

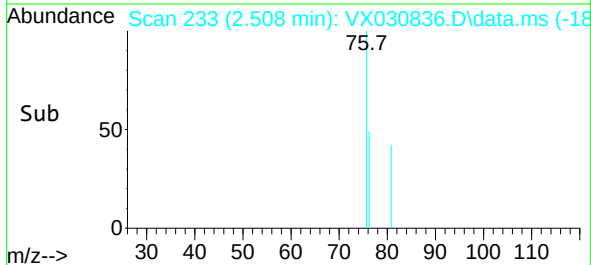
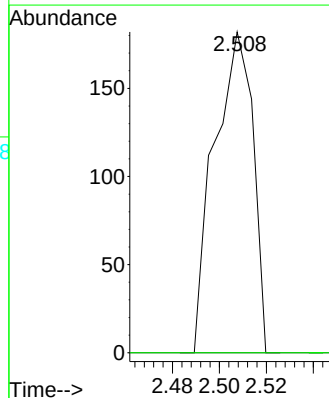
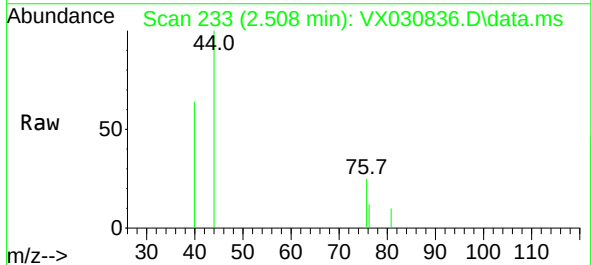
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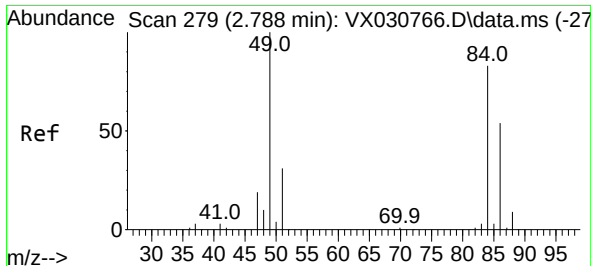
Tgt Ion: 43 Resp: 2316  
Ion Ratio Lower Upper  
43 100  
58 45.1 27.7 41.5#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 2.508 min Scan# 233  
Delta R.T. -0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 76 Resp: 208  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.8 11.6#

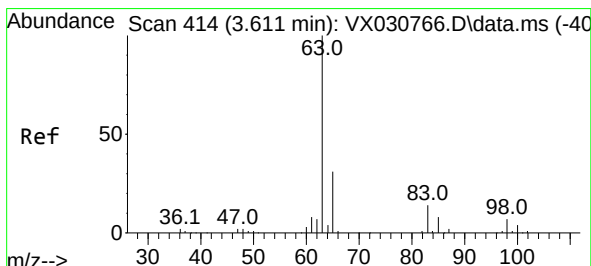
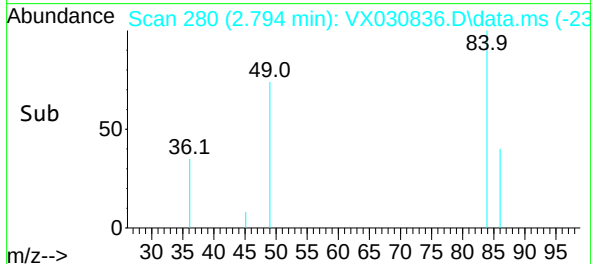
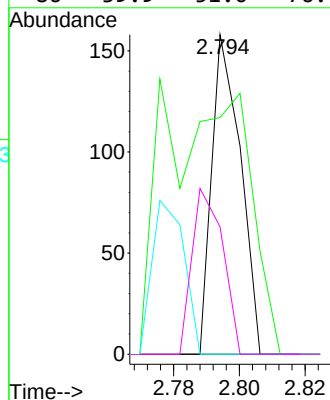
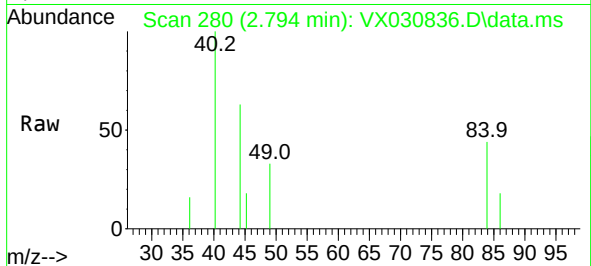




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

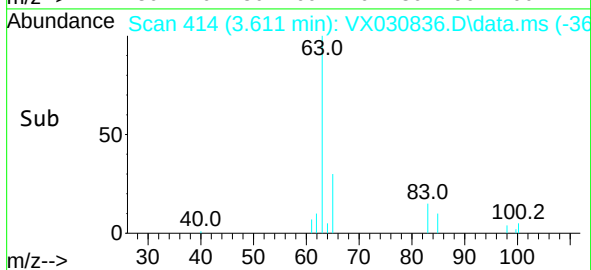
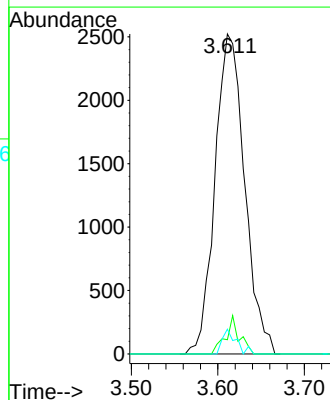
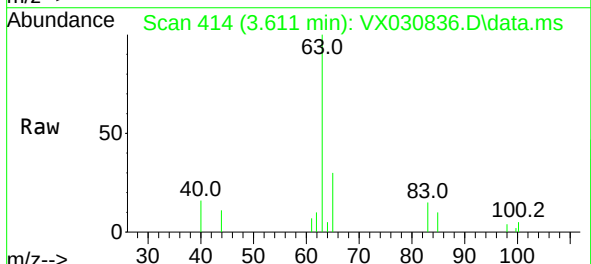
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|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 95     |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 74.1  | 93.8  | 140.6# |
| 51       | 0.0   | 29.4  | 44.0#  |
| 86       | 39.9  | 51.0  | 76.4#  |

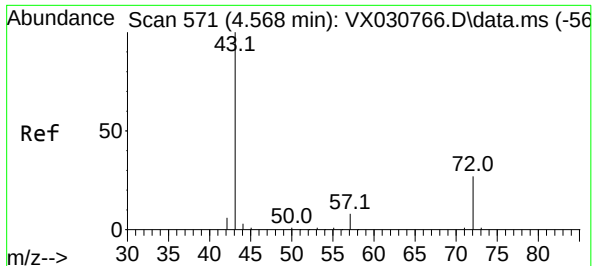


#24  
1,1-Dichloroethane  
Concen: 1.482 ug/l  
RT: 3.611 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 5994  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.4   | 3.5   | 10.5  |
| 100      | 7.7   | 2.3   | 6.9#  |







#25

2-Butanone

Concen: 0.201 ug/l

RT: 4.593 min Scan# 51

Delta R.T. 0.025 min

Lab File: VX030836.D

Acq: 26 Aug 2022 19:47

Instrument :

MSVOA\_X

ClientSampleId :

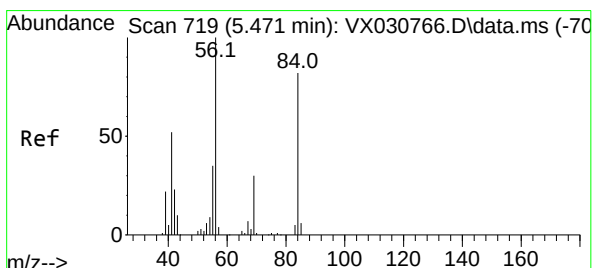
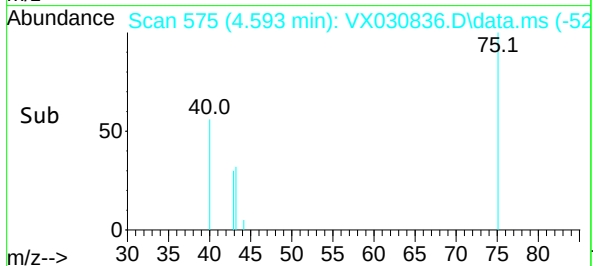
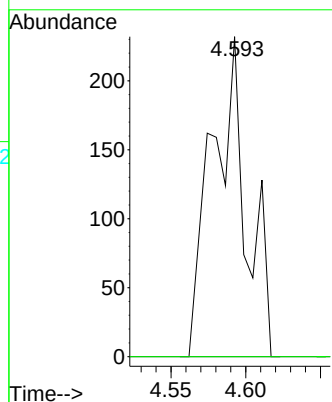
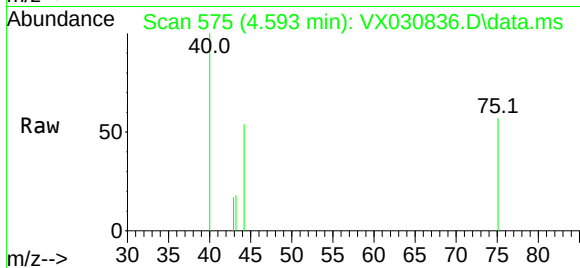
BP-TT-MW15811-GW-20220818

Tgt Ion: 43 Resp: 372

Ion Ratio Lower Upper

43 100

72 0.0 21.7 32.5#



#31

Cyclohexane

Concen: 1.520 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX030836.D

Acq: 26 Aug 2022 19:47

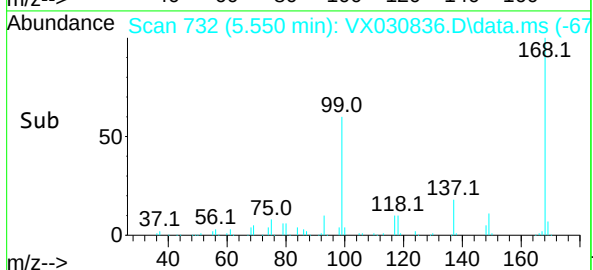
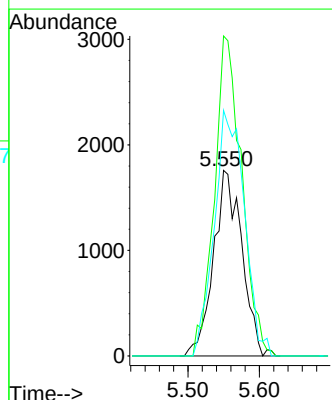
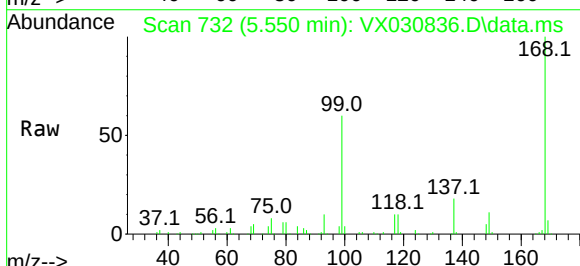
Tgt Ion: 56 Resp: 4842

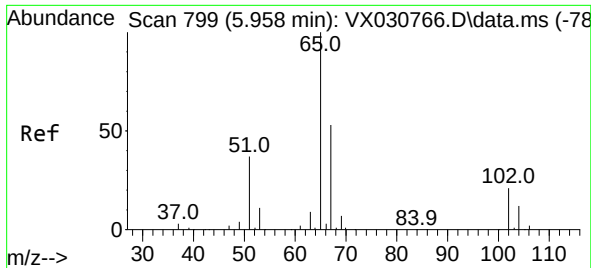
Ion Ratio Lower Upper

56 100

69 172.5 25.4 38.0#

84 132.4 68.9 103.3#

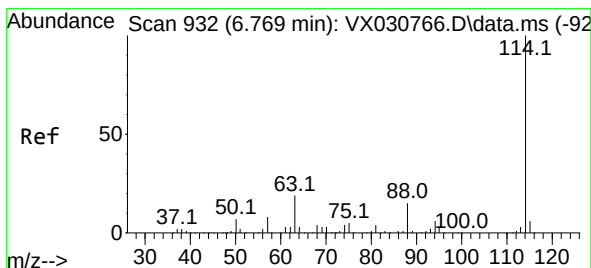
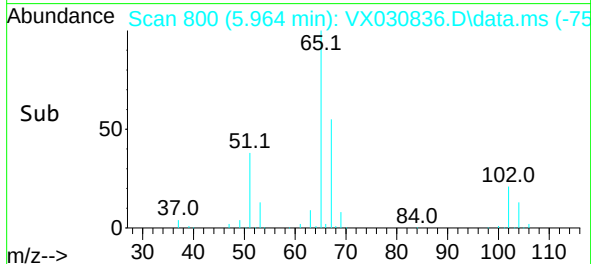
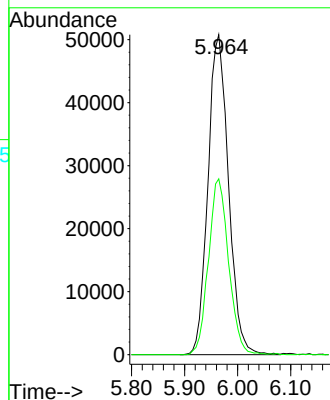
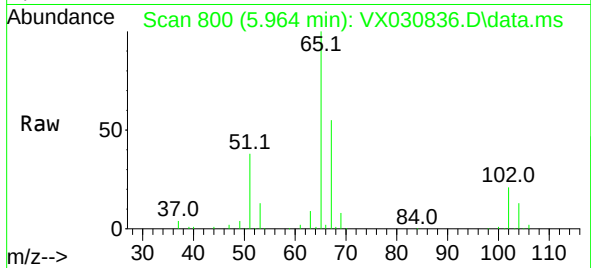




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.805 ug/l  
 RT: 5.964 min Scan# 80  
 Delta R.T. 0.006 min  
 Lab File: VX030836.D  
 Acq: 26 Aug 2022 19:47

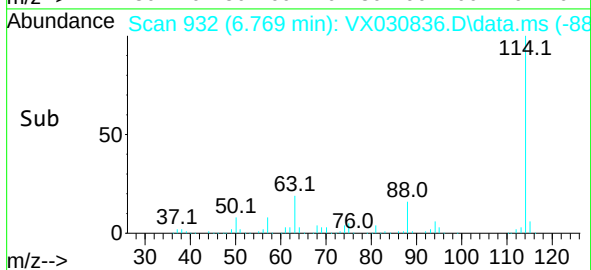
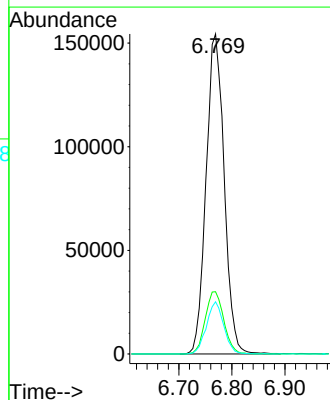
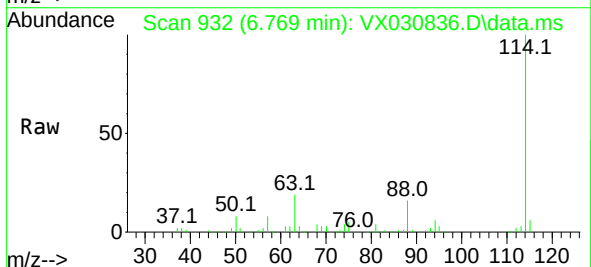
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-MW158I1-GW-20220818

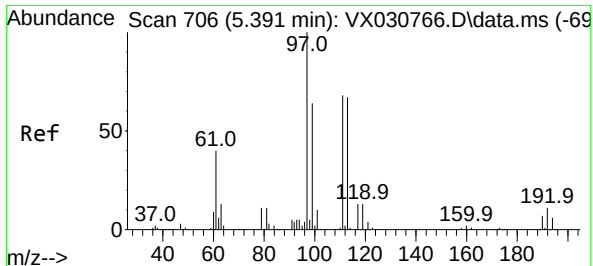
Tgt Ion: 65 Resp: 136548  
 Ion Ratio Lower Upper  
 65 100  
 67 53.9 0.0 109.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. -0.000 min  
 Lab File: VX030836.D  
 Acq: 26 Aug 2022 19:47

Tgt Ion: 114 Resp: 365168  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 38.4  
 88 16.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.354 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX030836.D

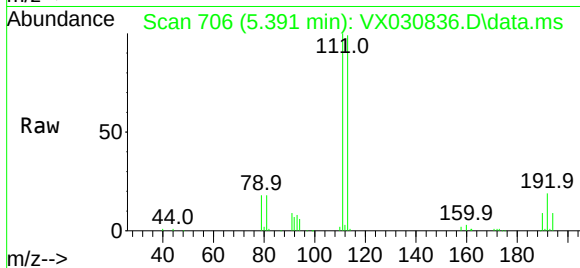
Acq: 26 Aug 2022 19:47

Instrument :

MSVOA\_X

ClientSampleId :

BP-TT-MW158I1-GW-20220818



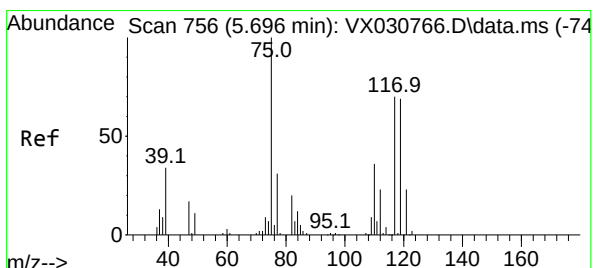
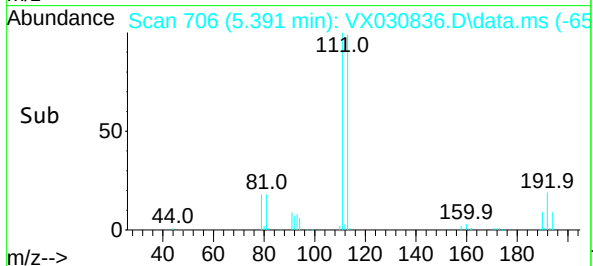
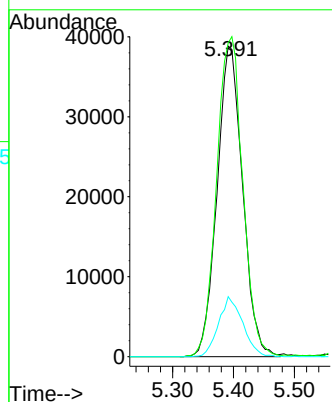
Tgt Ion:113 Resp: 113007

Ion Ratio Lower Upper

113 100

111 105.7 83.2 124.8

192 18.4 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.559 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.134 min

Lab File: VX030836.D

Acq: 26 Aug 2022 19:47

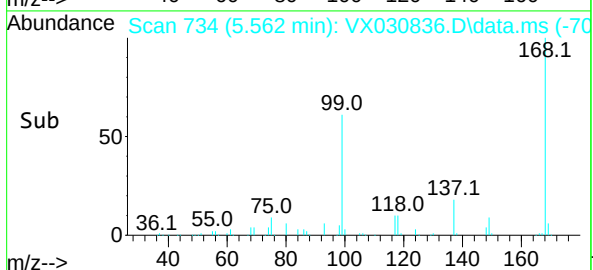
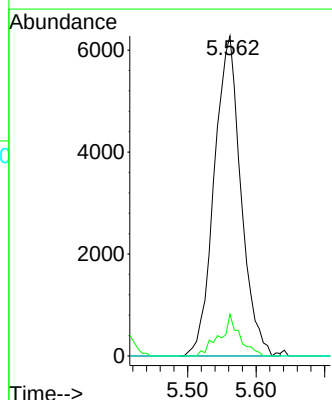
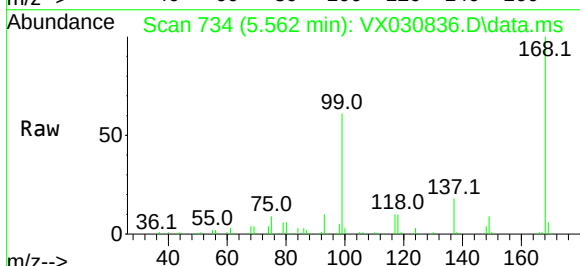
Tgt Ion: 75 Resp: 16988

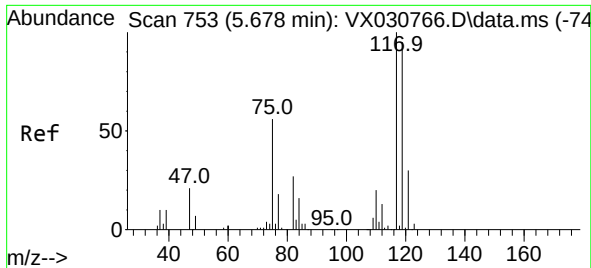
Ion Ratio Lower Upper

75 100

110 9.7 19.3 57.9#

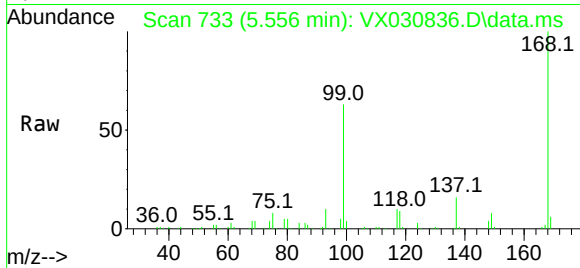
77 0.0 24.4 36.6#



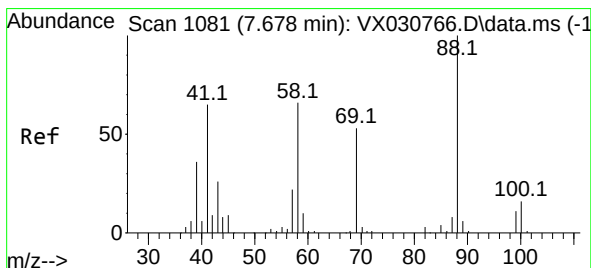
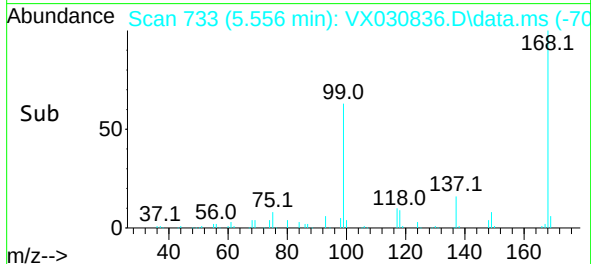
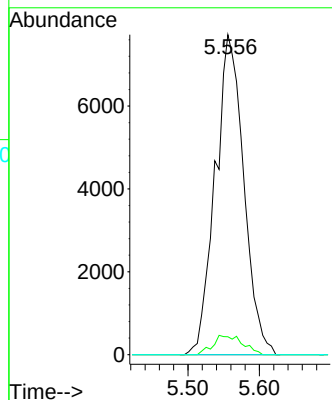


#38  
Carbon Tetrachloride  
Concen: 6.627 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-MW15811-GW-20220818

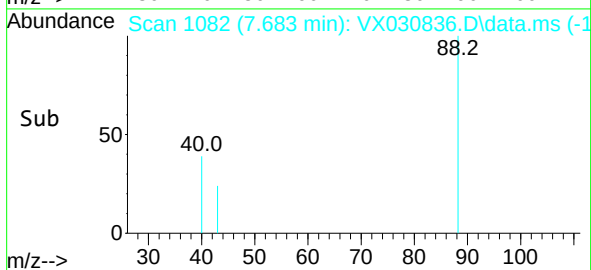
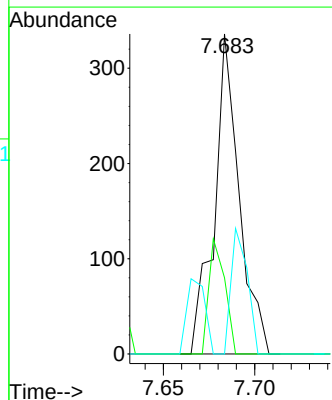
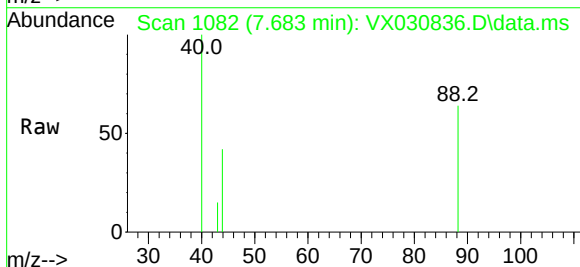


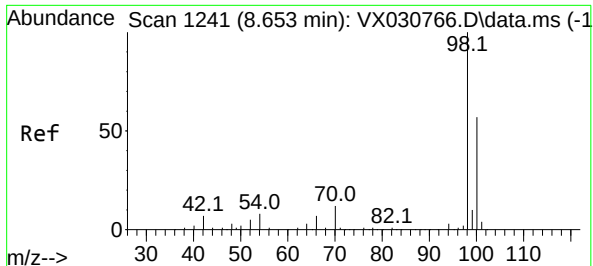
Tgt Ion:117 Resp: 21364  
Ion Ratio Lower Upper  
117 100  
119 5.6 74.1 111.1#  
121 0.0 25.8 38.8#



#49  
1,4-Dioxane  
Concen: 4.754 ug/l  
RT: 7.683 min Scan# 1082  
Delta R.T. 0.005 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 88 Resp: 319  
Ion Ratio Lower Upper  
88 100  
43 23.2 23.8 35.8#  
58 25.7 53.8 80.6#

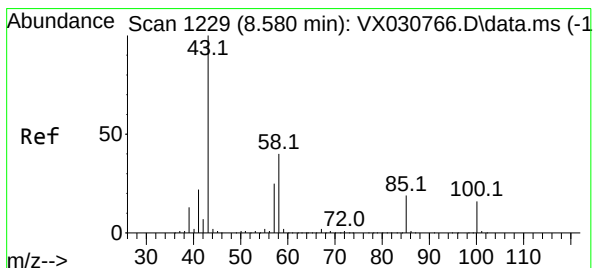
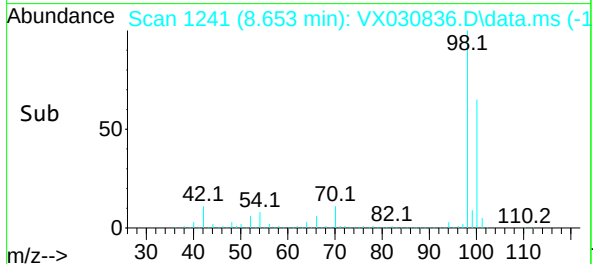
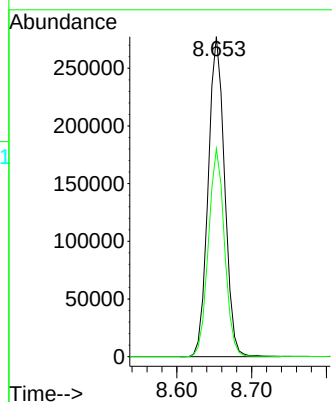
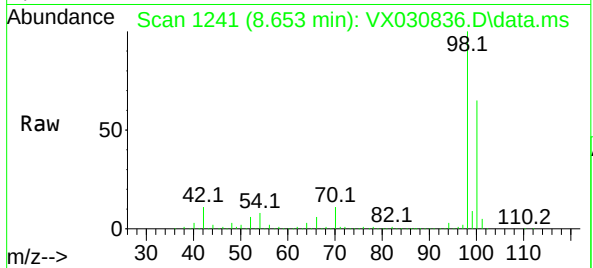




#50  
Toluene-d8  
Concen: 54.210 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

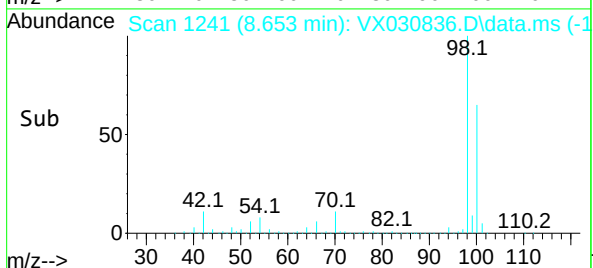
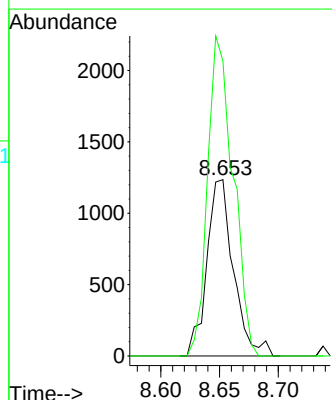
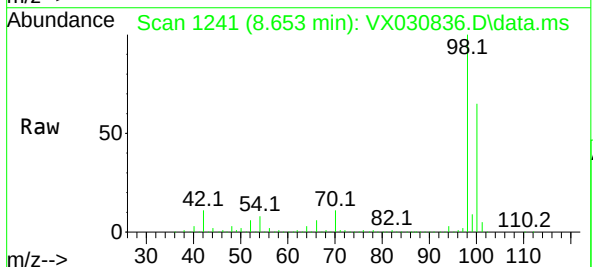
Instrument : MSVOA\_X  
ClientSampleId : BP-TT-MW15811-GW-20220818

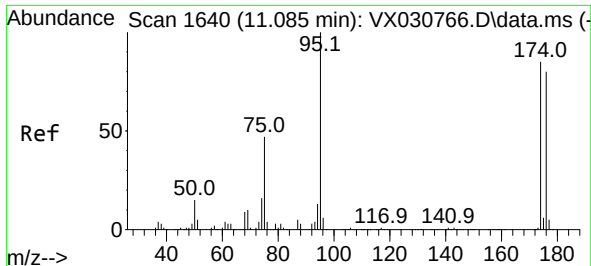
Tgt Ion: 98 Resp: 423950  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.3 78.5



#51  
4-Methyl-2-Pentanone  
Concen: 0.528 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 43 Resp: 1943  
Ion Ratio Lower Upper  
43 100  
58 174.2 31.4 47.2#

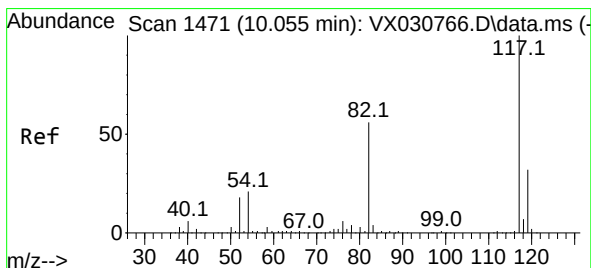
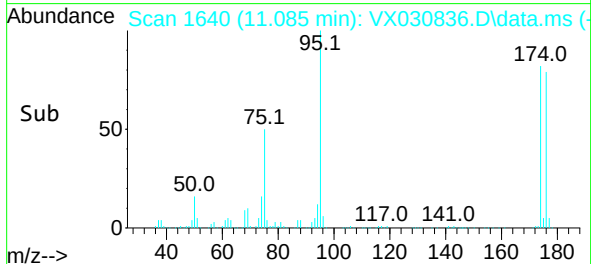
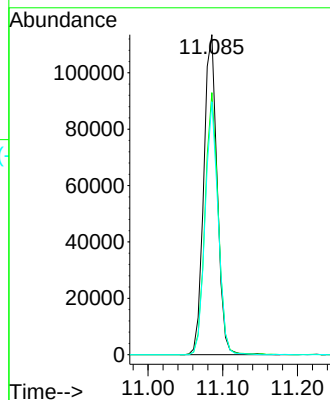
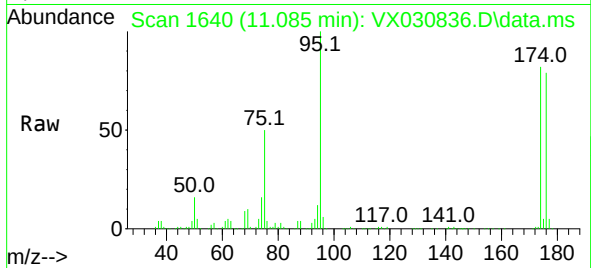




#62  
4-Bromofluorobenzene  
Concen: 48.590 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

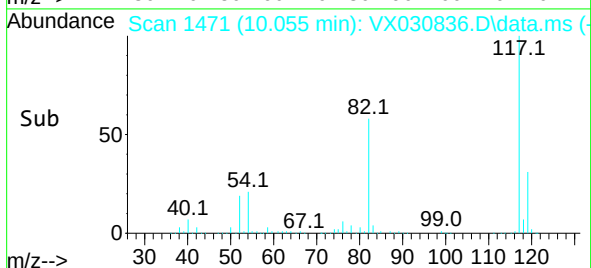
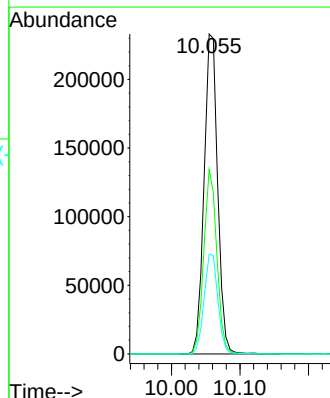
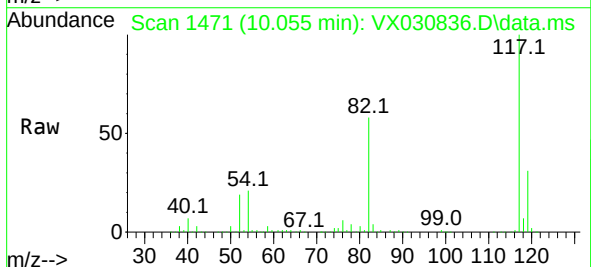
Instrument :  
MSVOA\_X  
ClientSampleId :  
BP-TT-MW15811-GW-20220818

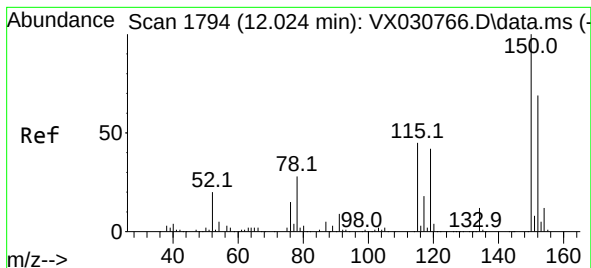
Tgt Ion: 95 Resp: 141474  
Ion Ratio Lower Upper  
95 100  
174 80.3 0.0 149.0  
176 76.5 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX030836.D  
Acq: 26 Aug 2022 19:47

Tgt Ion: 117 Resp: 322115  
Ion Ratio Lower Upper  
117 100  
82 57.6 42.7 64.1  
119 31.2 25.4 38.2

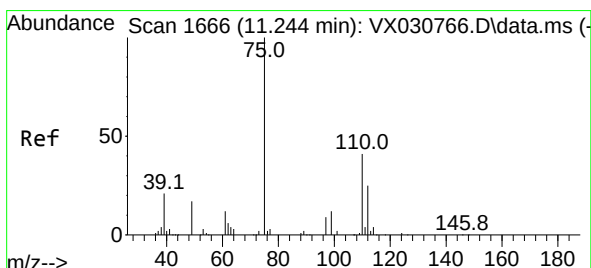
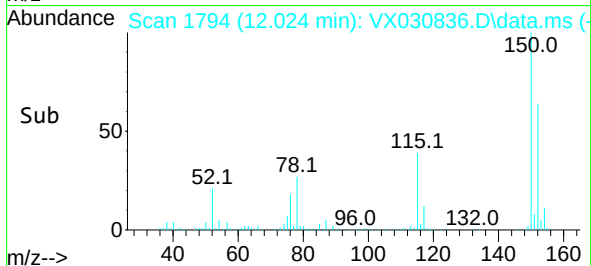
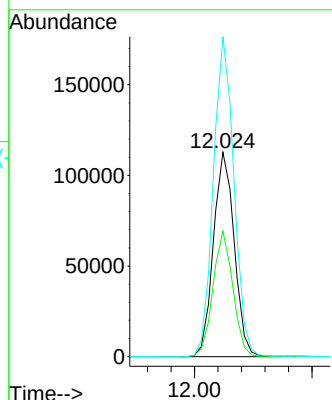
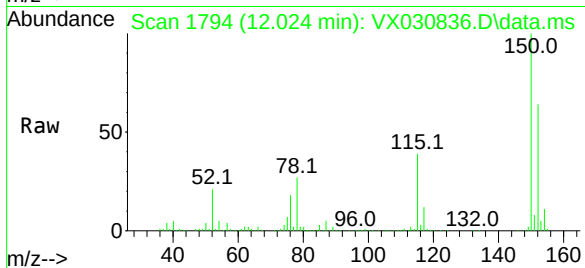




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX030836.D  
 Acq: 26 Aug 2022 19:47

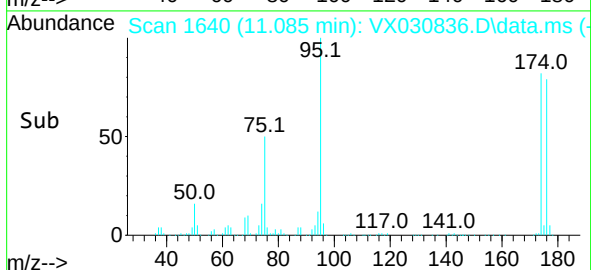
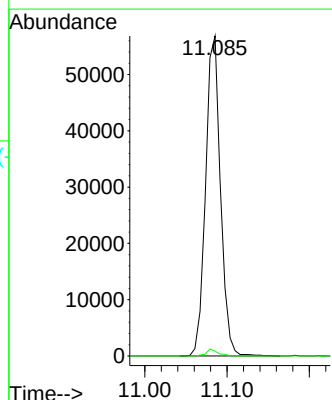
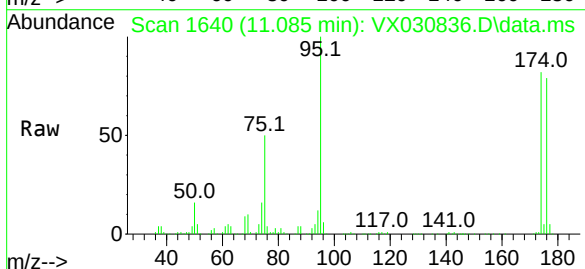
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-MW15811-GW-20220818

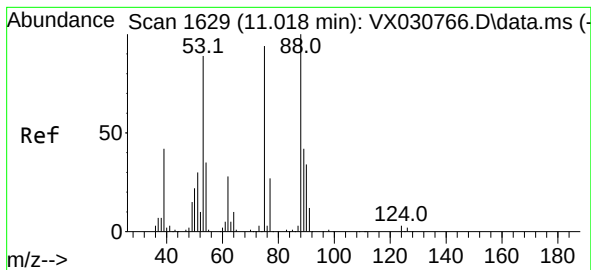
Tgt Ion:152 Resp: 138913  
 Ion Ratio Lower Upper  
 152 100  
 115 58.8 40.5 121.5  
 150 155.0 0.0 347.0



#76  
 1,2,3-Trichloropropane  
 Concen: 23.437 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.159 min  
 Lab File: VX030836.D  
 Acq: 26 Aug 2022 19:47

Tgt Ion: 75 Resp: 71327  
 Ion Ratio Lower Upper  
 75 100  
 77 1.7 19.8 59.3#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 75.617 ug/l  
 RT: 11.085 min Scan# 1  
 Delta R.T. 0.067 min  
 Lab File: VX030836.D  
 Acq: 26 Aug 2022 19:47

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 BP-TT-MW158I1-GW-20220818

Tgt Ion: 75 Resp: 71327  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.2 111.4#  
 89 0.0 34.8 52.2#

