

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082722\  
 Data File : VX030900.D  
 Acq On : 28 Aug 2022 04:01  
 Operator : JC/MD  
 Sample : N4360-5  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GM38-RW3-MW1-20220824

Quant Time: Aug 29 01:16:04 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

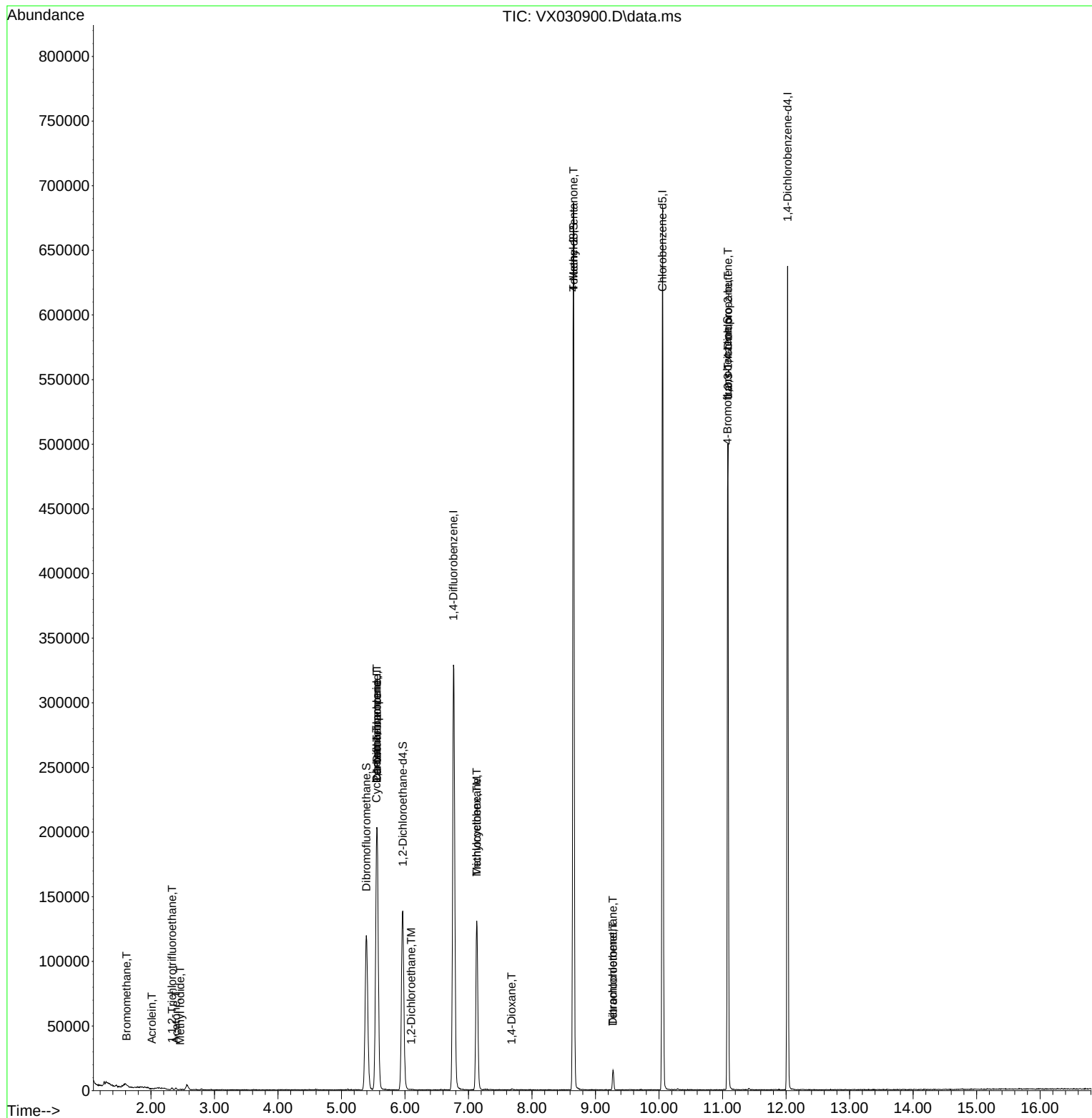
| Compound                      | R.T.           | QIon | Response             | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|----------------------|-----------|--------|----------|
| -----                         |                |      |                      |           |        |          |
| Internal Standards            |                |      |                      |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 184713               | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 323266               | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 288461               | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 120670               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                      |           |        |          |
| System Monitoring Compounds   |                |      |                      |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 137786               | 63.416    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 126.840%# |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 104785               | 52.742    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.480%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 389896               | 56.318    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 112.640%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 130592               | 50.667    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 101.340%  |           |        |          |
|                               |                |      |                      |           |        |          |
| Target Compounds              |                |      |                      |           |        |          |
|                               |                |      |                      |           | Qvalue |          |
| 3) Chloromethane              | 1.288          | 50   | 562                  | Below Cal | #      | 77       |
| 4) Vinyl Chloride             | 1.368          | 62   | 28                   | Below Cal | #      | 1        |
| 5) Bromomethane               | 1.618          | 94   | 208                  | 0.242     | ug/l # | 60       |
| 6) Chloroethane               | 1.685          | 64   | 207                  | Below Cal | #      | 41       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331          | 101  | 487                  | 0.271     | ug/l   | 89       |
| 10) Methyl Iodide             | 2.459          | 142  | 165                  | 4.131     | ug/l # | 45       |
| 13) Acrolein                  | 2.014          | 56   | 36                   | 10.135    | ug/l # | 14       |
| 16) Acetone                   | 2.392          | 43   | 1261                 | 1.256     | ug/l # | 64       |
| 17) Carbon Disulfide          | 2.508          | 76   | 134                  | Below Cal | #      | 74       |
| 20) Methylene Chloride        | 2.800          | 84   | 210                  | Below Cal | #      | 57       |
| 31) Cyclohexane               | 5.550          | 56   | 4478                 | 1.612     | ug/l # | 9        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 16464                | 6.086     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 20593                | 7.216     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.129          | 83   | 738                  | 0.228     | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 6.098          | 62   | 711                  | 0.248     | ug/l # | 73       |
| 44) Trichloroethene           | 7.129          | 130  | 48917                | 20.919    | ug/l   | 89       |
| 49) 1,4-Dioxane               | 7.677          | 88   | 382                  | 6.431     | ug/l # | 90       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 2097                 | 0.644     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275          | 129  | 2851                 | 1.218     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275          | 164  | 3058                 | 1.346     | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 68126                | 25.769    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 68126                | 83.142    | ug/l # | 12       |
| -----                         |                |      |                      |           |        |          |

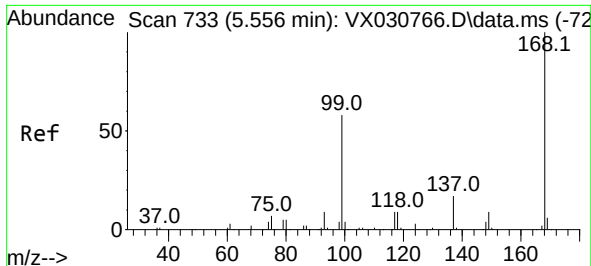
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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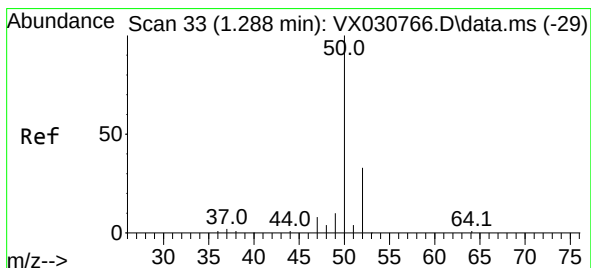
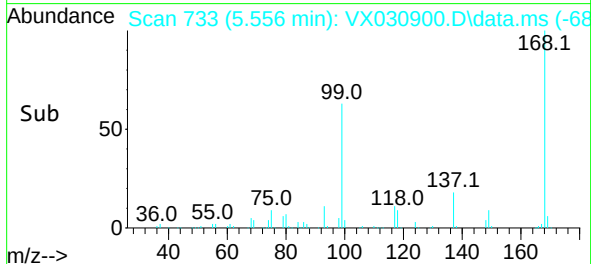
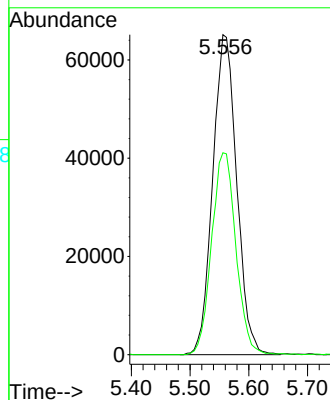
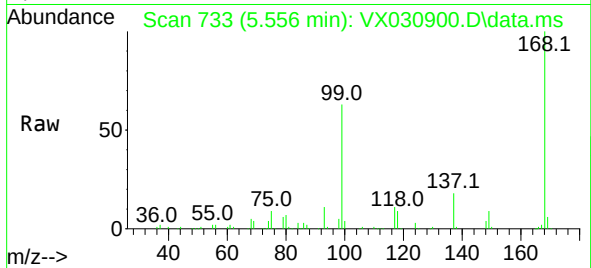




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

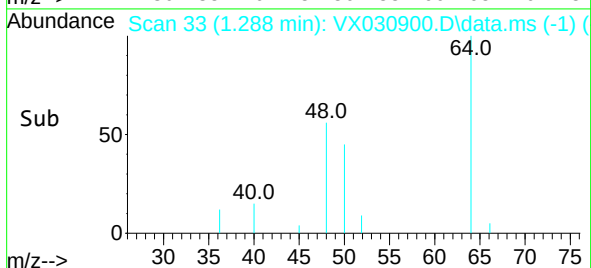
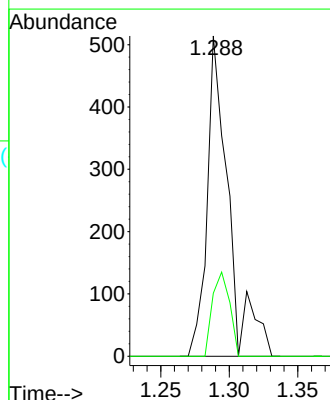
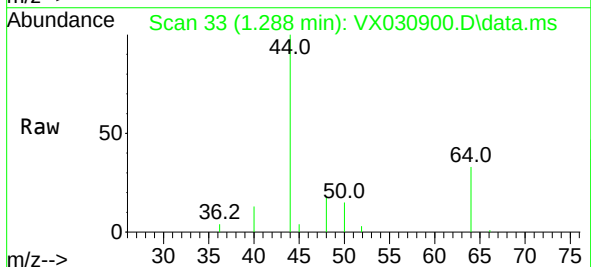
Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

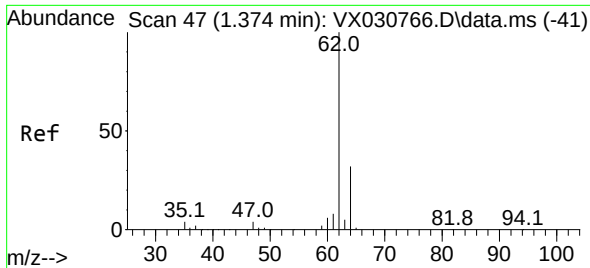
Tgt Ion:168 Resp: 184713  
Ion Ratio Lower Upper  
168 100  
99 63.1 44.0 66.0



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.288 min Scan# 33  
Delta R.T. 0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 50 Resp: 562  
Ion Ratio Lower Upper  
50 100  
52 19.6 26.3 39.5

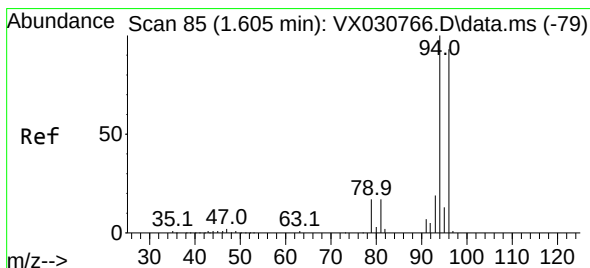
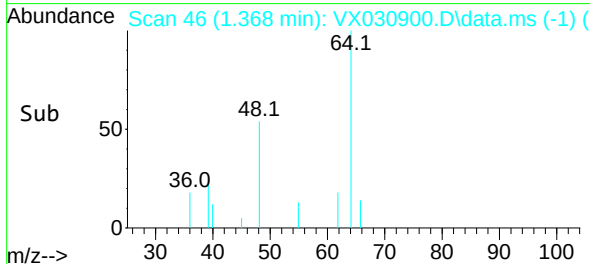
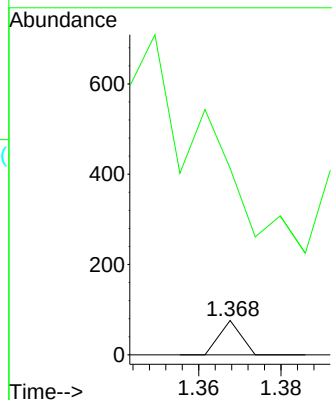
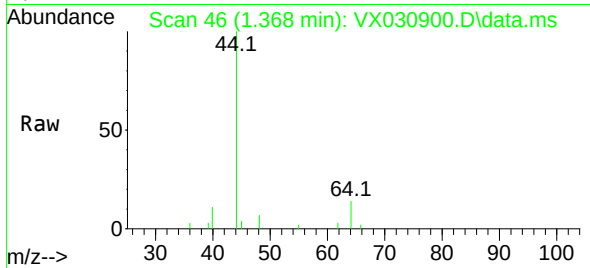




#4  
 Vinyl Chloride  
 Concen: Below Cal  
 RT: 1.368 min Scan# 41  
 Delta R.T. -0.006 min  
 Lab File: VX030900.D  
 Acq: 28 Aug 2022 04:01

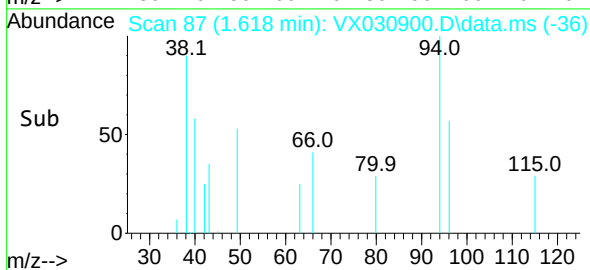
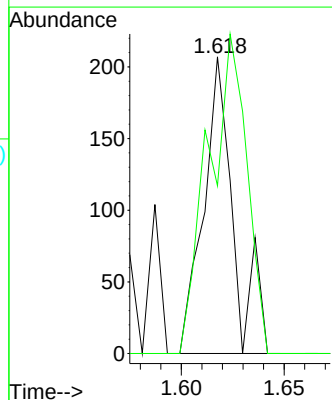
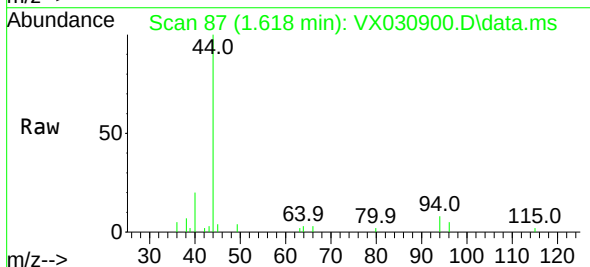
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 GM38-RW3-MW1-20220824

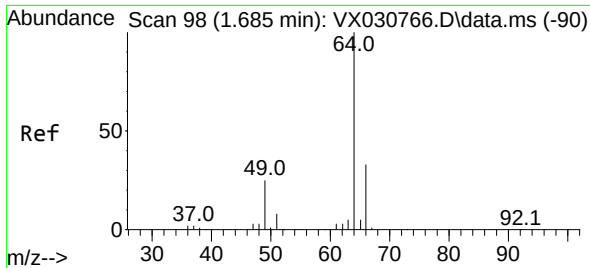
Tgt Ion: 62 Resp: 28  
 Ion Ratio Lower Upper  
 62 100  
 64 138.2 25.2 37.8#



#5  
 Bromomethane  
 Concen: 0.242 ug/l  
 RT: 1.618 min Scan# 87  
 Delta R.T. 0.012 min  
 Lab File: VX030900.D  
 Acq: 28 Aug 2022 04:01

Tgt Ion: 94 Resp: 208  
 Ion Ratio Lower Upper  
 94 100  
 96 56.5 76.9 115.3#

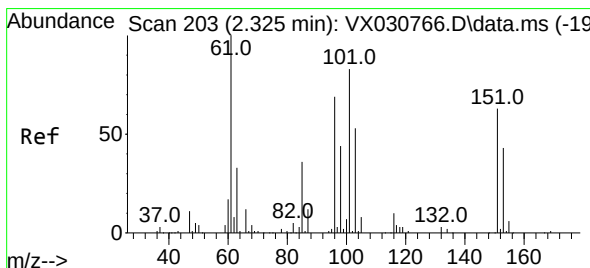
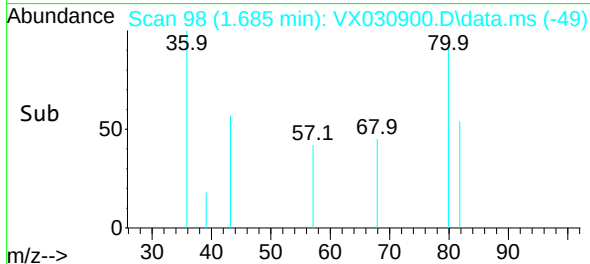
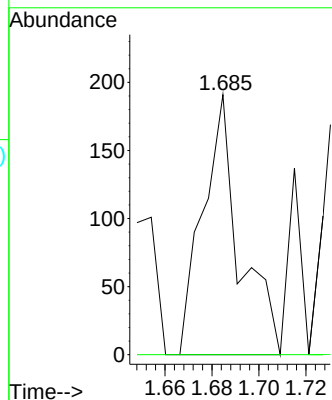
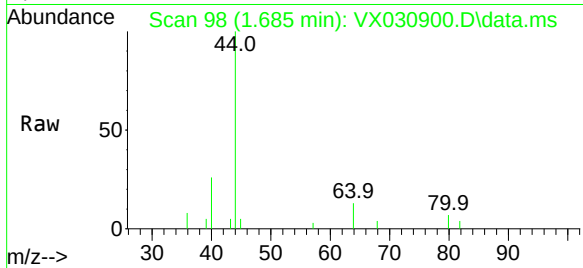




#6  
 Chloroethane  
 Concen: Below Cal  
 RT: 1.685 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VX030900.D  
 Acq: 28 Aug 2022 04:01

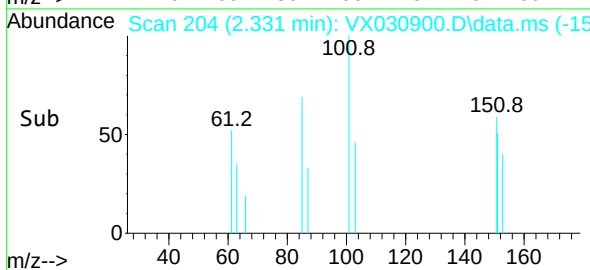
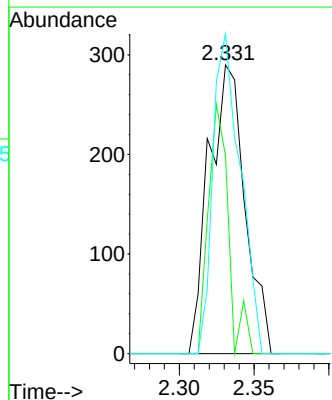
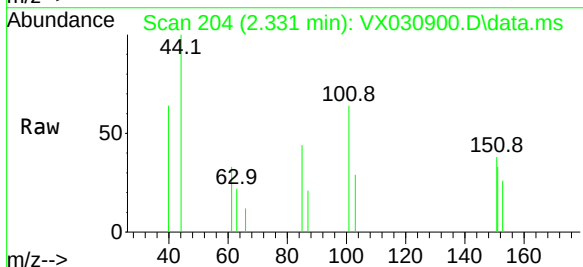
Instrument : MSVOA\_X  
 ClientSampleId : GM38-RW3-MW1-20220824

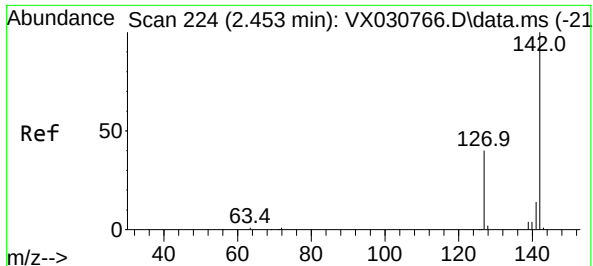
Tgt Ion: 64 Resp: 207  
 Ion Ratio Lower Upper  
 64 100  
 66 0.0 27.2 40.8#



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.271 ug/l  
 RT: 2.331 min Scan# 204  
 Delta R.T. 0.006 min  
 Lab File: VX030900.D  
 Acq: 28 Aug 2022 04:01

Tgt Ion:101 Resp: 487  
 Ion Ratio Lower Upper  
 101 100  
 85 47.8 34.0 51.0  
 151 84.2 59.4 89.0

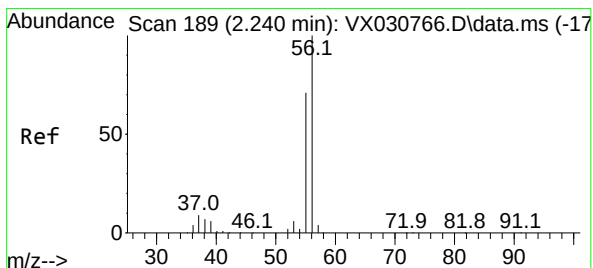
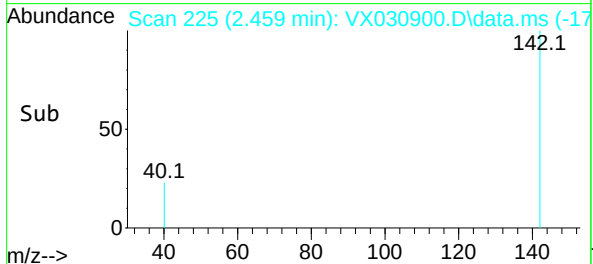
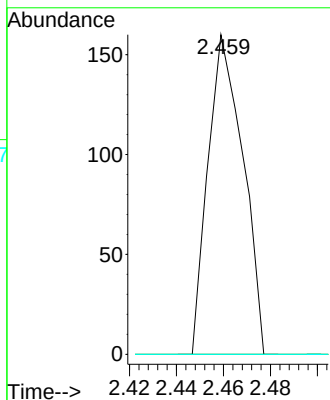
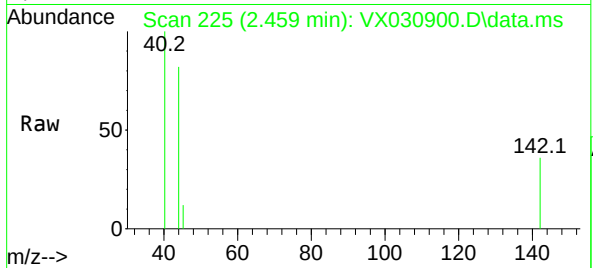




#10  
Methyl Iodide  
Concen: 4.131 ug/l  
RT: 2.459 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

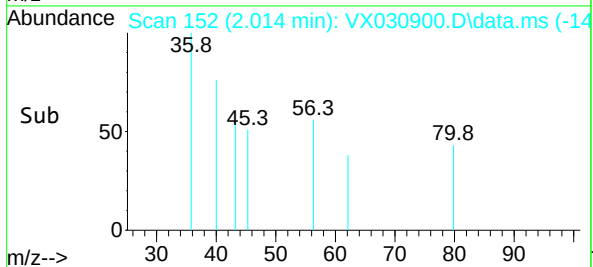
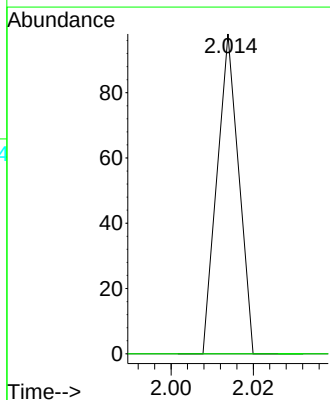
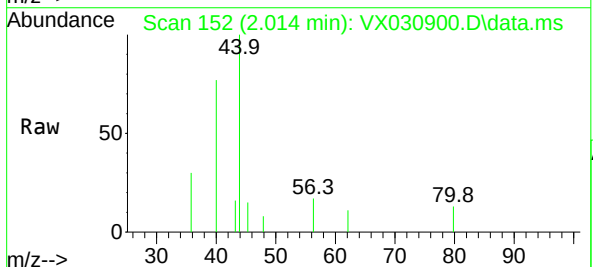
Instrument :  
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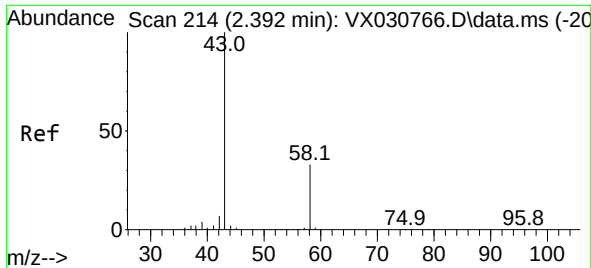
Tgt Ion:142 Resp: 165  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.2 45.2#  
141 0.0 11.3 16.9#



#13  
Acrolein  
Concen: 10.135 ug/l  
RT: 2.014 min Scan# 152  
Delta R.T. -0.226 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 56 Resp: 36  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.6 84.8#

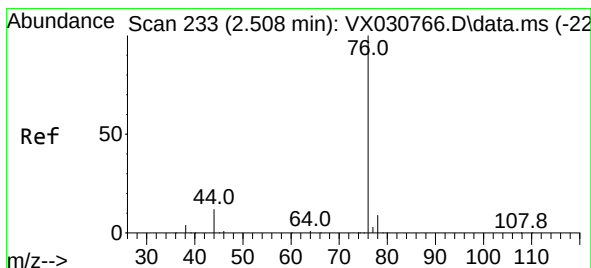
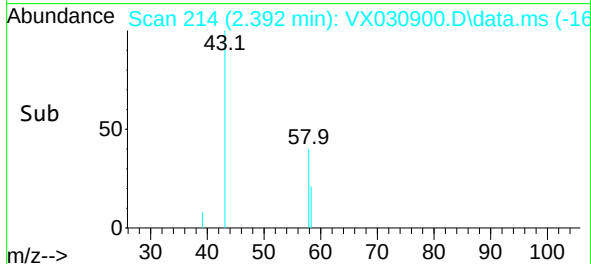
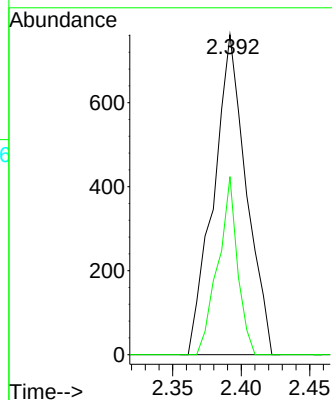
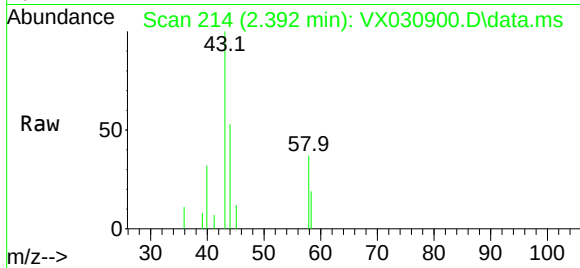




#16  
Acetone  
Concen: 1.256 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

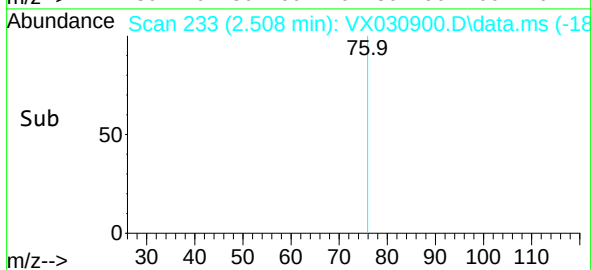
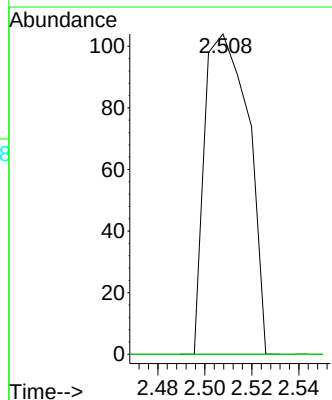
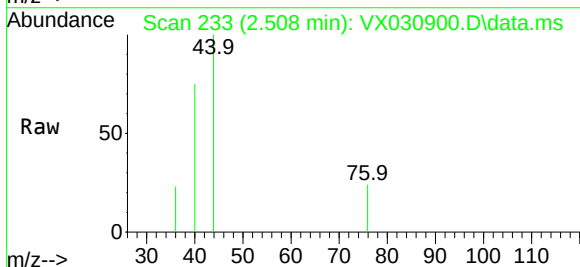
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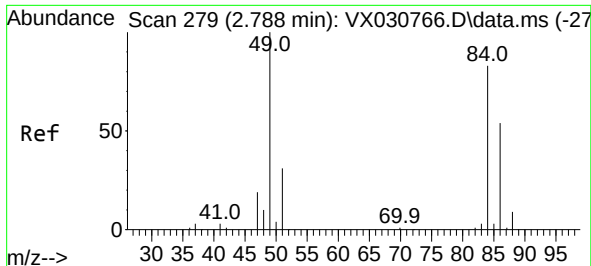
Tgt Ion: 43 Resp: 1261  
Ion Ratio Lower Upper  
43 100  
58 55.6 27.7 41.5#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 2.508 min Scan# 233  
Delta R.T. -0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

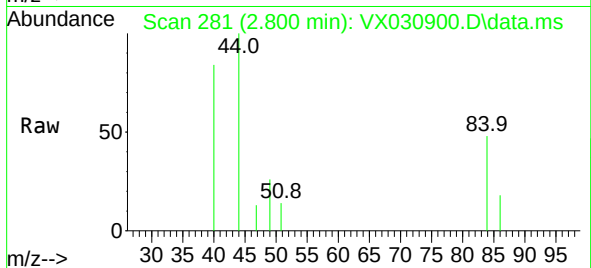
Tgt Ion: 76 Resp: 134  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.8 11.6#



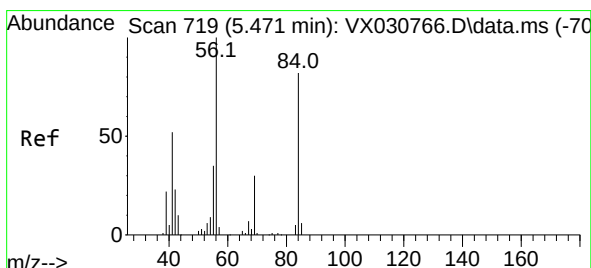
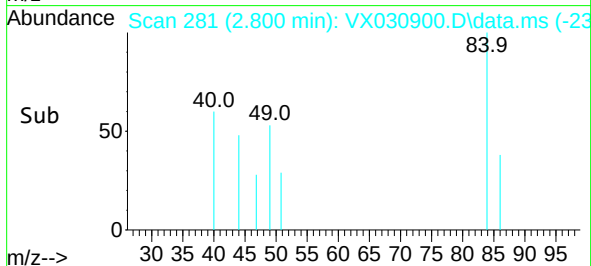
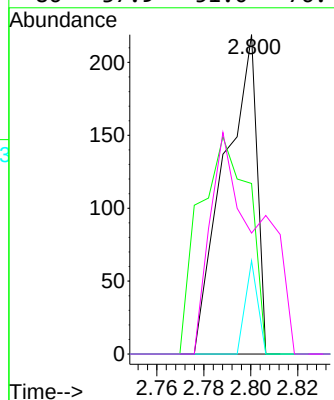


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
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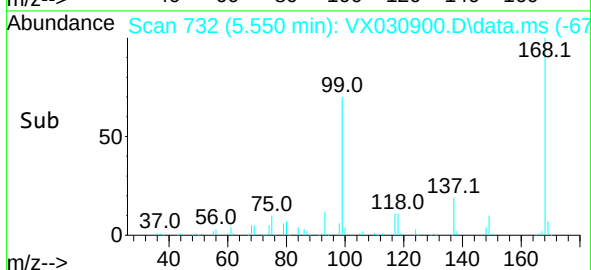
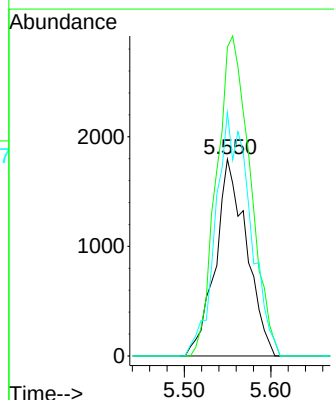
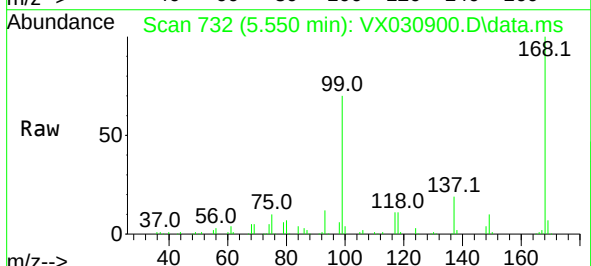


|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 210   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 53.4     | 93.8 140.6# |
| 51 29.2     | 29.4 44.0#  |
| 86 37.9     | 51.0 76.4#  |

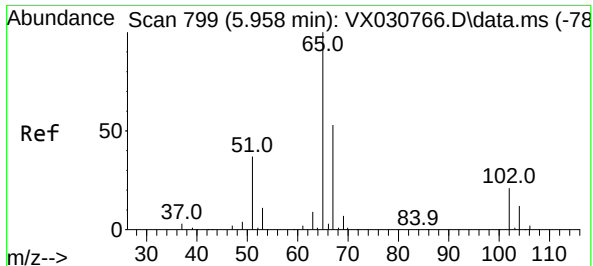


#31  
Cyclohexane  
Concen: 1.612 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

|             |            |       |        |
|-------------|------------|-------|--------|
| Tgt Ion: 56 | Resp: 4478 |       |        |
| Ion Ratio   | Lower      | Upper |        |
| 56          | 100        |       |        |
| 69          | 156.9      | 25.4  | 38.0#  |
| 84          | 123.8      | 68.9  | 103.3# |







#33

1,2-Dichloroethane-d4

Concen: 63.416 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX030900.D

Acq: 28 Aug 2022 04:01

Instrument :

MSVOA\_X

ClientSampleId :

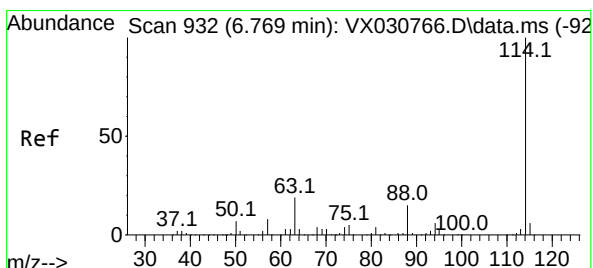
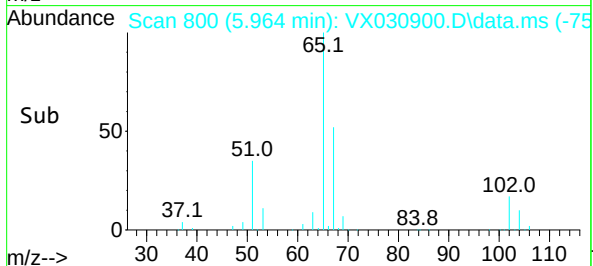
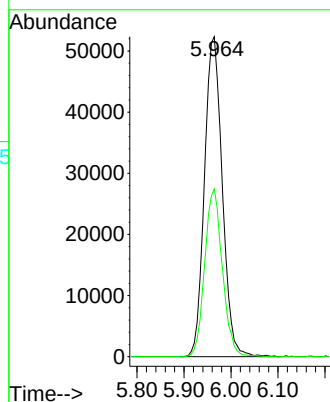
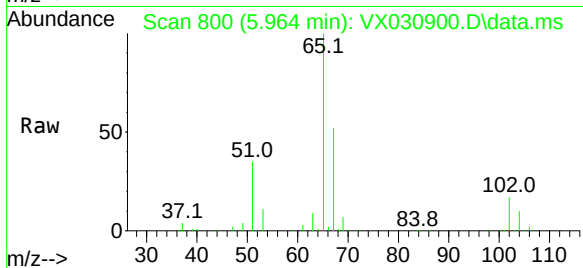
GM38-RW3-MW1-20220824

Tgt Ion: 65 Resp: 137786

Ion Ratio Lower Upper

65 100

67 51.9 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX030900.D

Acq: 28 Aug 2022 04:01

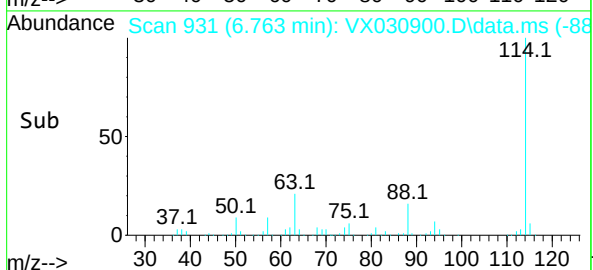
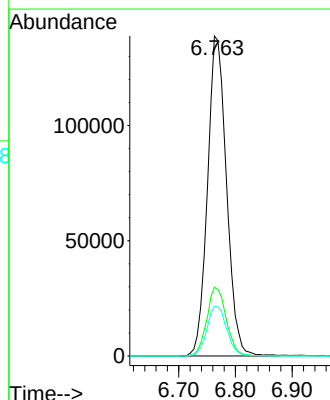
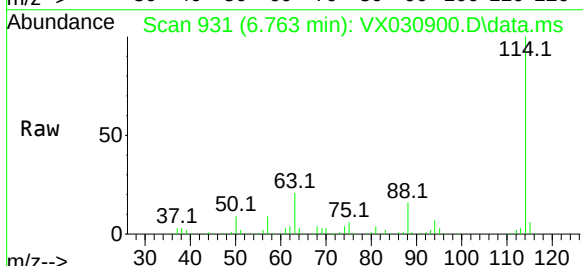
Tgt Ion: 114 Resp: 323266

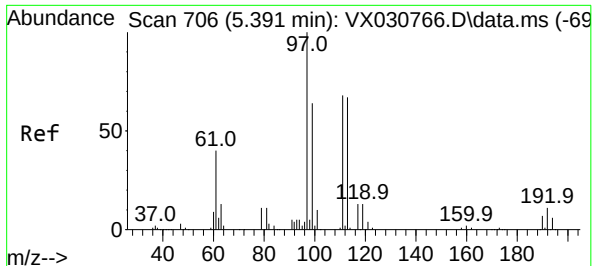
Ion Ratio Lower Upper

114 100

63 21.5 0.0 38.4

88 15.5 0.0 31.8

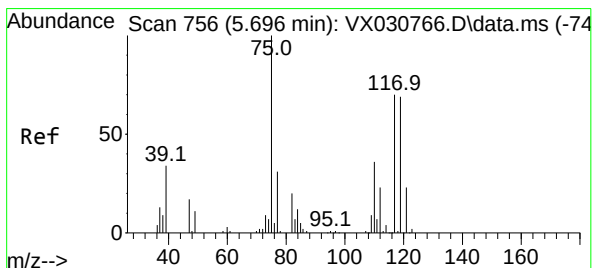
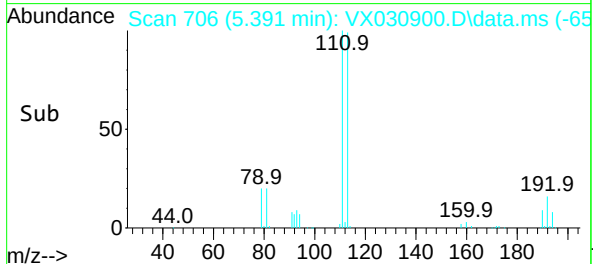
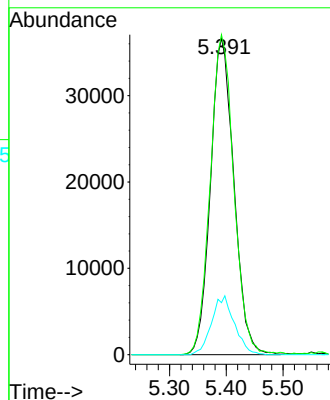
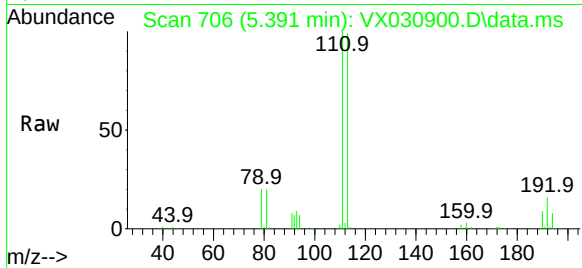




#35  
Dibromofluoromethane  
Concen: 52.742 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

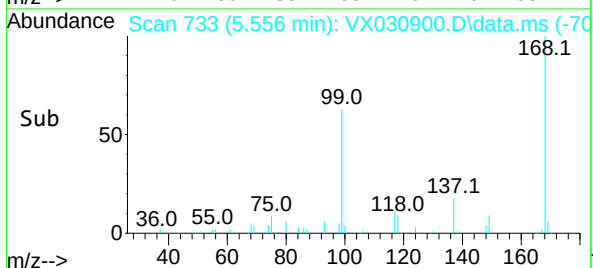
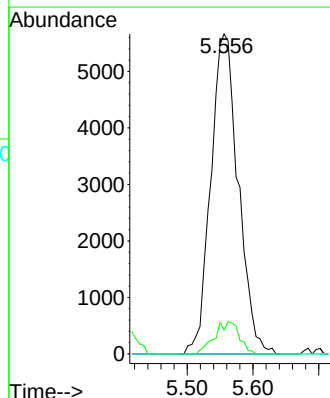
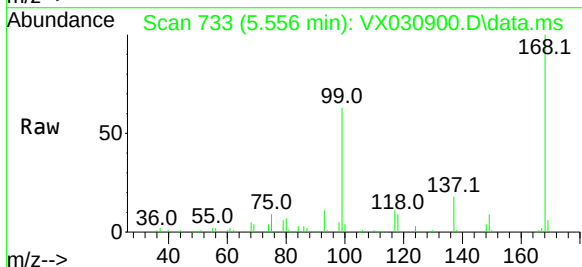
Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

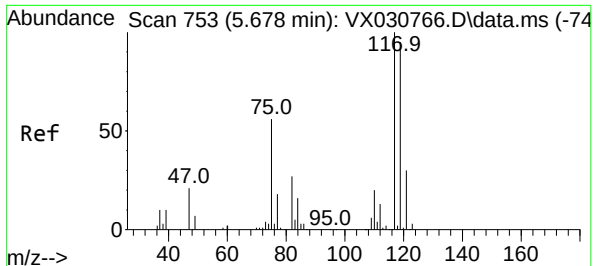
Tgt Ion:113 Resp: 104785  
Ion Ratio Lower Upper  
113 100  
111 102.5 83.2 124.8  
192 18.2 14.8 22.2



#36  
1,1-Dichloropropene  
Concen: 6.086 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 75 Resp: 16464  
Ion Ratio Lower Upper  
75 100  
110 9.1 19.3 57.9#  
77 0.0 24.4 36.6#

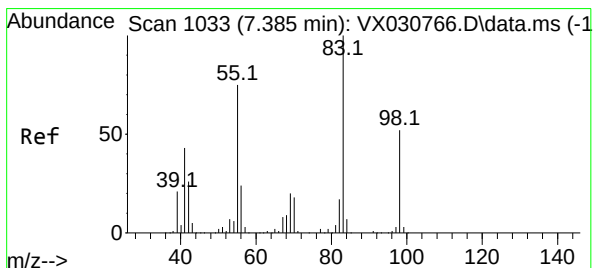
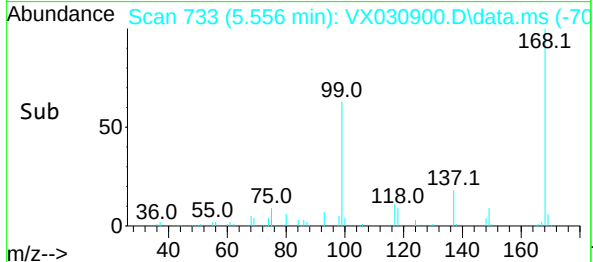
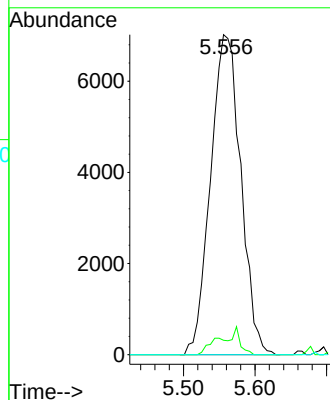
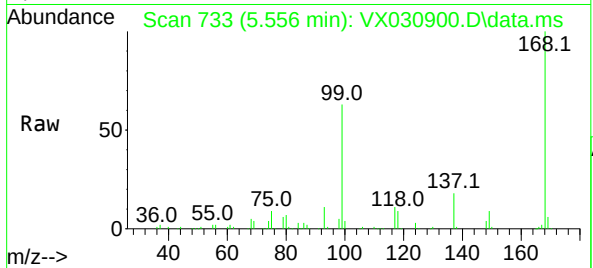




#38  
Carbon Tetrachloride  
Concen: 7.216 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

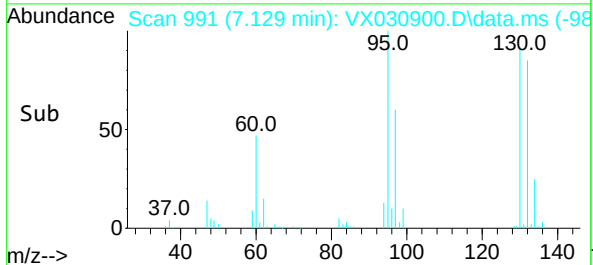
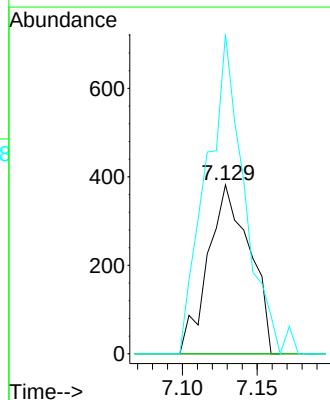
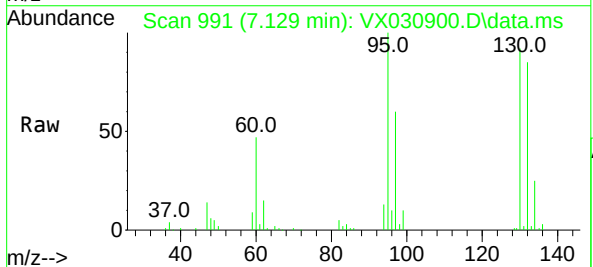
Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

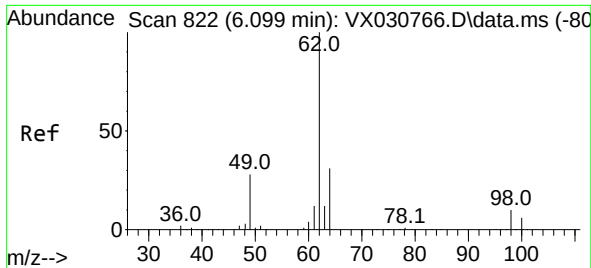
Tgt Ion:117 Resp: 20593  
Ion Ratio Lower Upper  
117 100  
119 4.5 74.1 111.1#  
121 0.0 25.8 38.8#



#39  
Methylcyclohexane  
Concen: 0.228 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.256 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 83 Resp: 738  
Ion Ratio Lower Upper  
83 100  
55 0.0 57.7 86.5#  
98 189.3 36.5 54.7#





#42

1,2-Dichloroethane

Concen: 0.248 ug/l

RT: 6.098 min Scan# 81

Delta R.T. -0.001 min

Lab File: VX030900.D

Acq: 28 Aug 2022 04:01

Instrument :

MSVOA\_X

ClientSampleId :

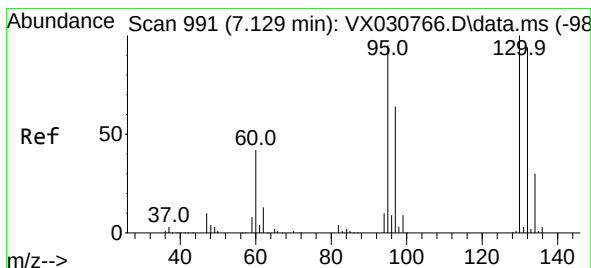
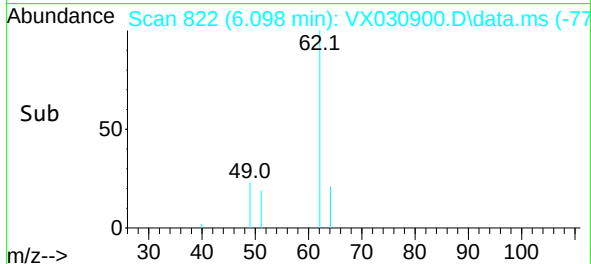
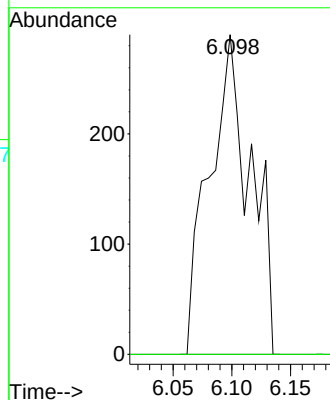
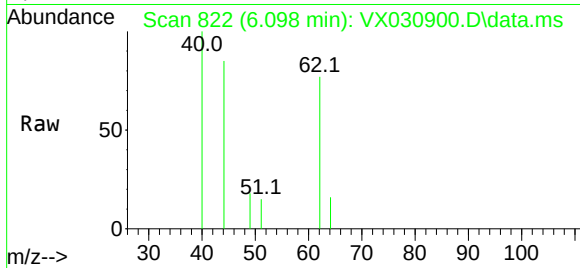
GM38-RW3-MW1-20220824

Tgt Ion: 62 Resp: 711

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#44

Trichloroethene

Concen: 20.919 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX030900.D

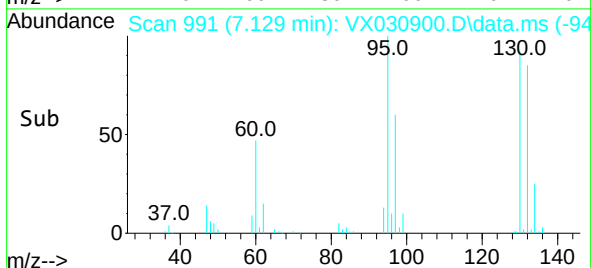
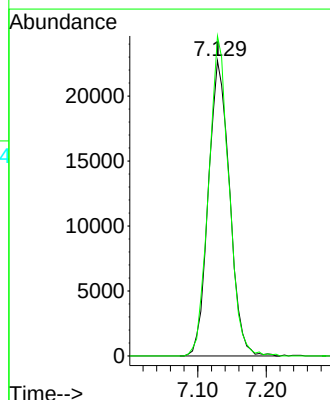
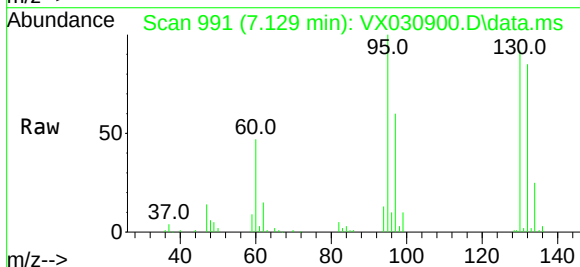
Acq: 28 Aug 2022 04:01

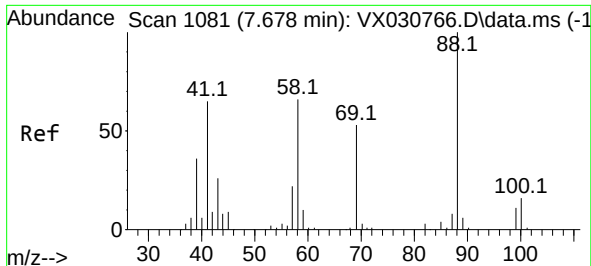
Tgt Ion:130 Resp: 48917

Ion Ratio Lower Upper

130 100

95 108.4 0.0 194.8





#49

1,4-Dioxane

Concen: 6.431 ug/l

RT: 7.677 min Scan# 1081

Delta R.T. -0.001 min

Lab File: VX030900.D

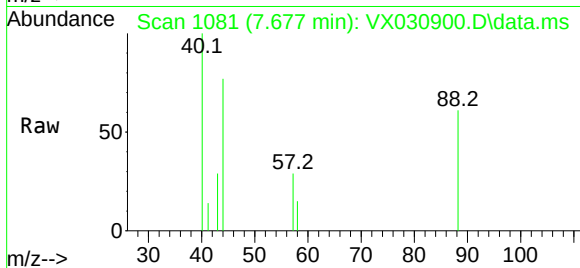
Acq: 28 Aug 2022 04:01

Instrument :

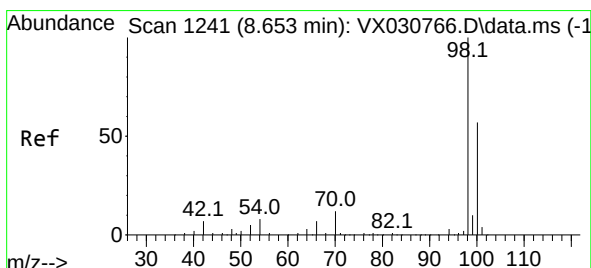
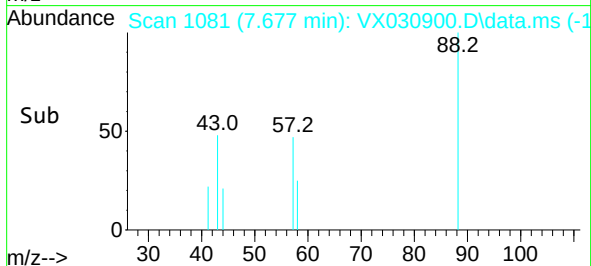
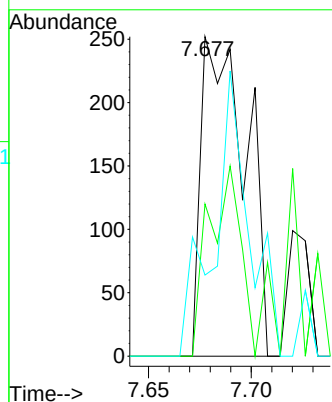
MSVOA\_X

ClientSampleId :

GM38-RW3-MW1-20220824



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 382   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 42.4  | 23.8  | 35.8# |
| 58       | 70.7  | 53.8  | 80.6  |



#50

Toluene-d8

Concen: 56.318 ug/l

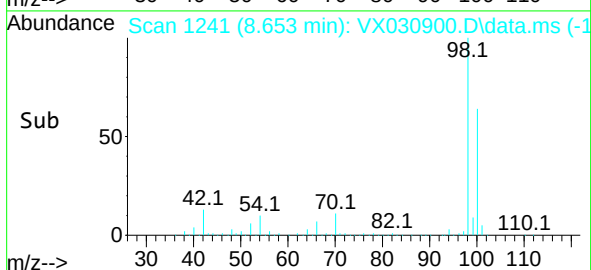
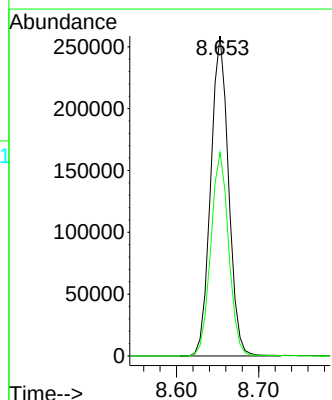
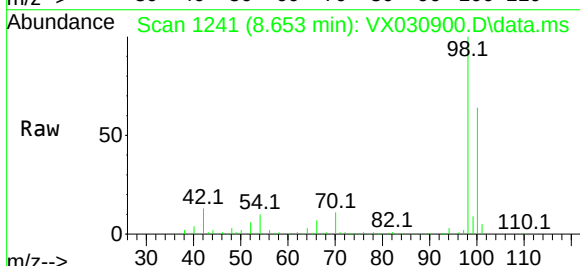
RT: 8.653 min Scan# 1241

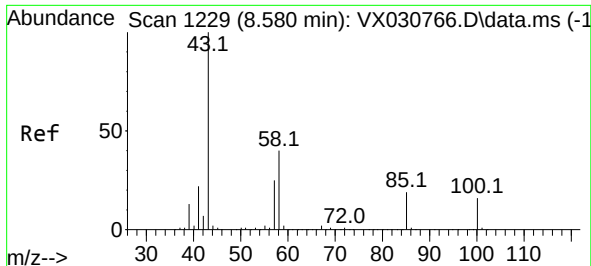
Delta R.T. -0.000 min

Lab File: VX030900.D

Acq: 28 Aug 2022 04:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 389896 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 63.7  | 52.3  | 78.5   |

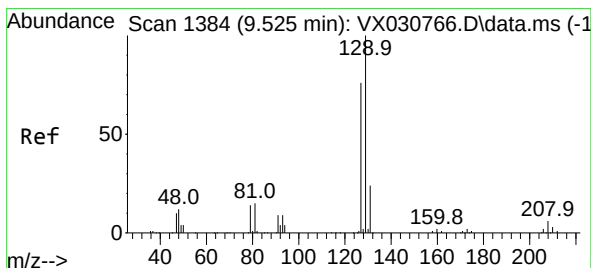
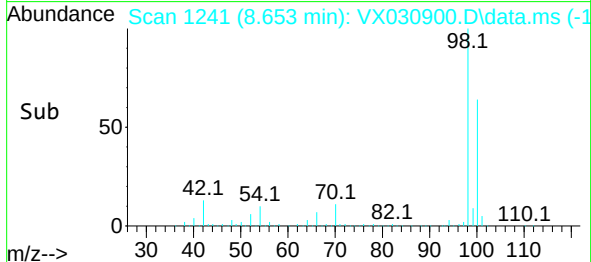
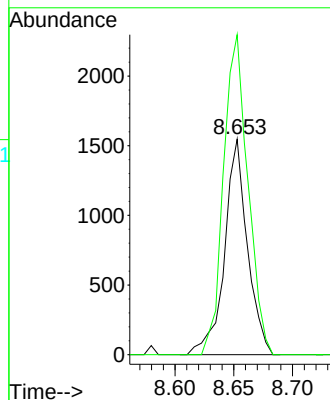
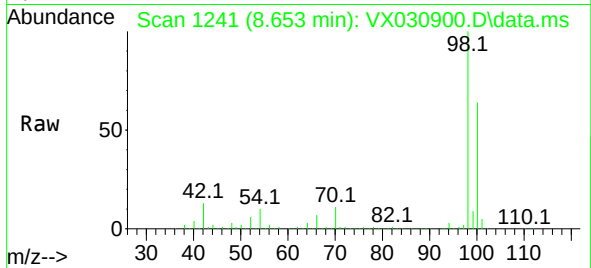




#51  
4-Methyl-2-Pentanone  
Concen: 0.644 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

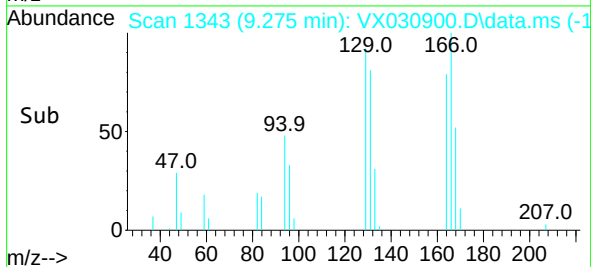
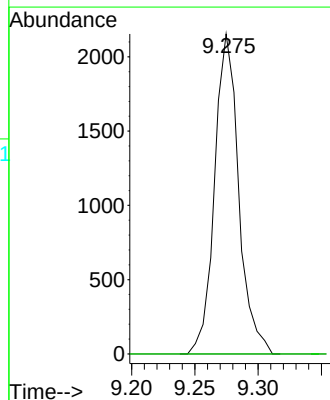
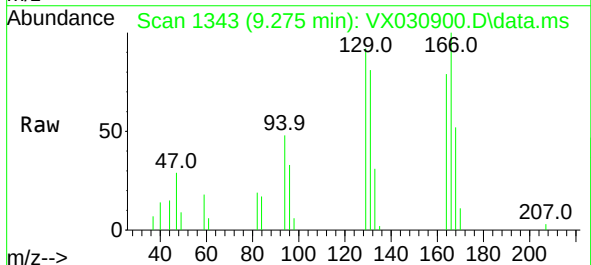
Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

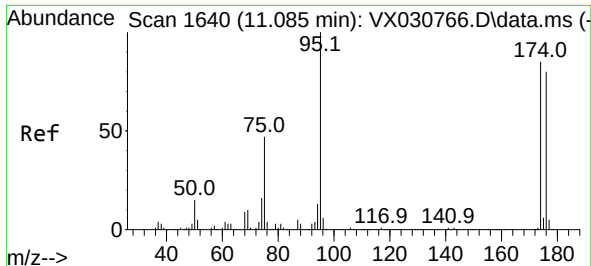
Tgt Ion: 43 Resp: 2097  
Ion Ratio Lower Upper  
43 100  
58 158.1 31.4 47.2#



#60  
Dibromochloromethane  
Concen: 1.218 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 129 Resp: 2851  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#

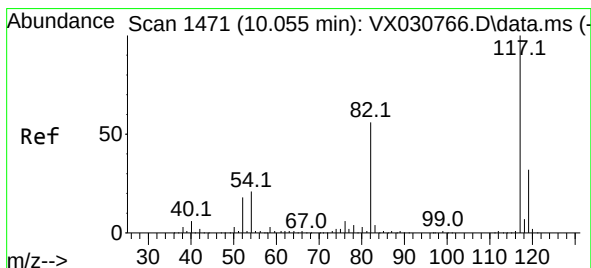
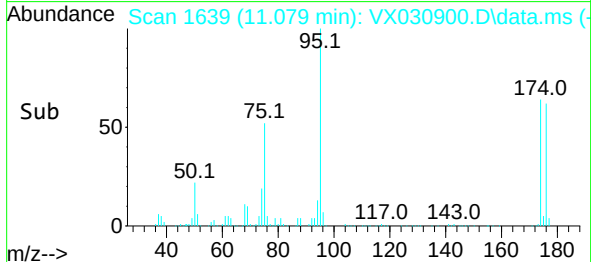
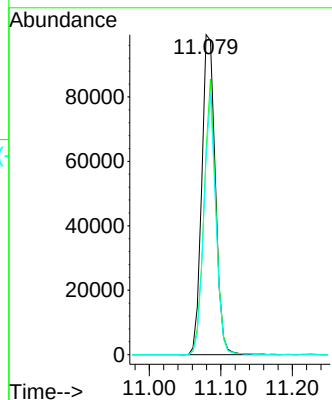
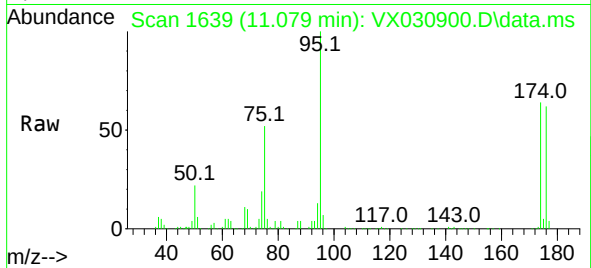




#62  
4-Bromofluorobenzene  
Concen: 50.667 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

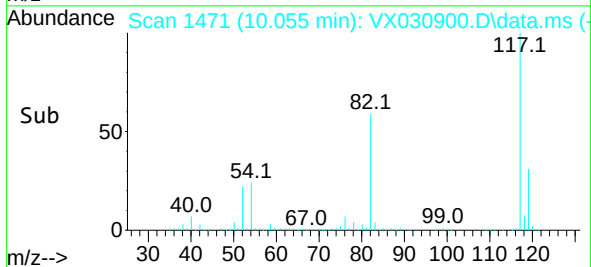
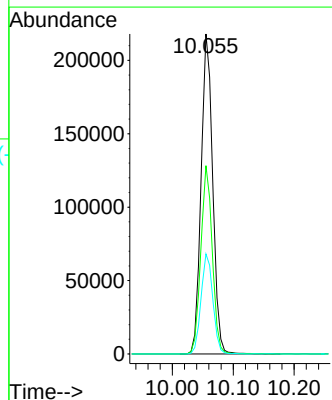
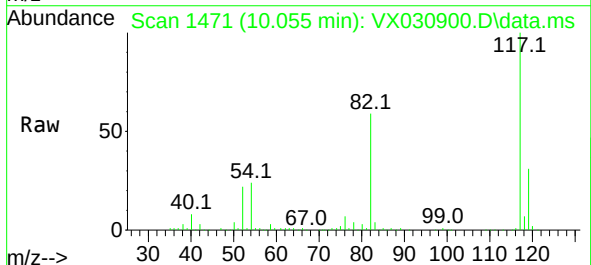
Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

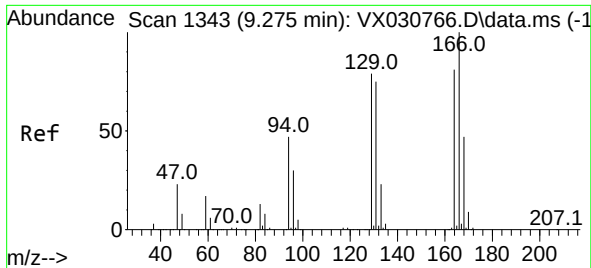
Tgt Ion: 95 Resp: 130592  
Ion Ratio Lower Upper  
95 100  
174 76.5 0.0 149.0  
176 72.2 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 117 Resp: 288461  
Ion Ratio Lower Upper  
117 100  
82 58.8 42.7 64.1  
119 31.3 25.4 38.2

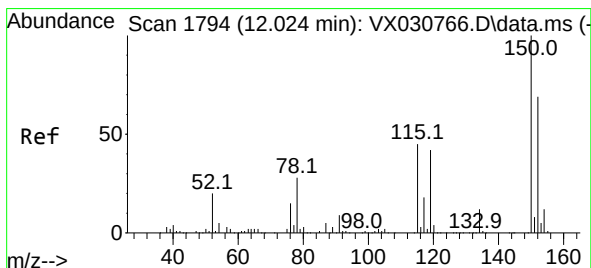
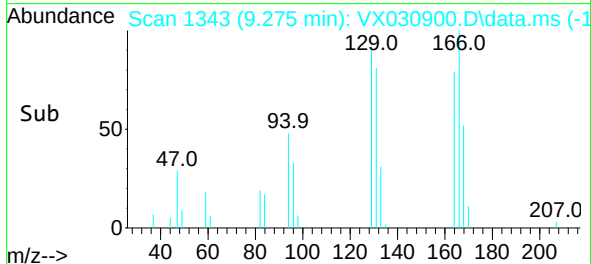
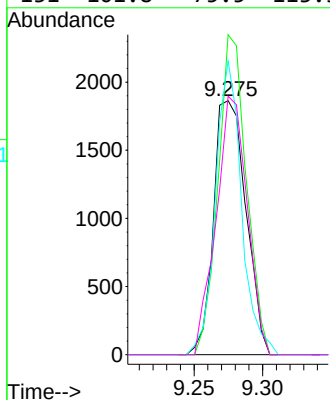
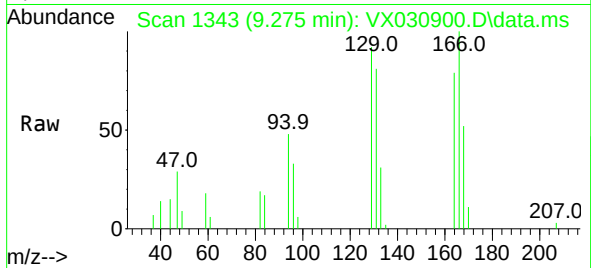




#64  
Tetrachloroethene  
Concen: 1.346 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

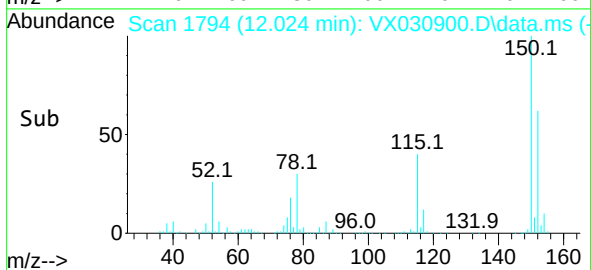
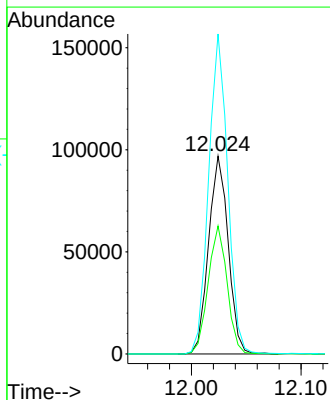
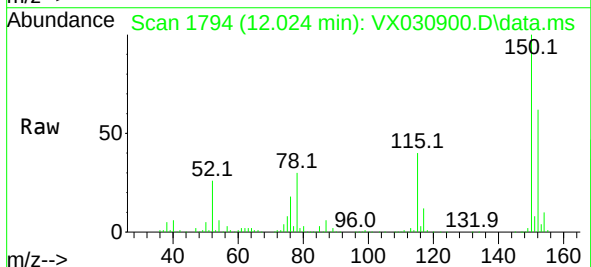
Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 3058  |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 166 | 126.0   | 98.2  | 147.4 |
| 129 | 115.6   | 80.8  | 121.2 |
| 131 | 101.8   | 75.5  | 113.3 |

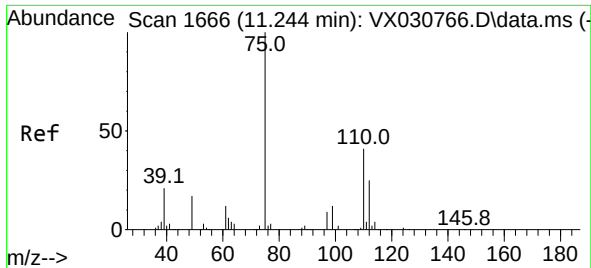


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:152 | Resp: | 120670 |       |
| Ion         | Ratio | Lower  | Upper |
| 152         | 100   |        |       |
| 115         | 62.5  | 40.5   | 121.5 |
| 150         | 156.8 | 0.0    | 347.0 |



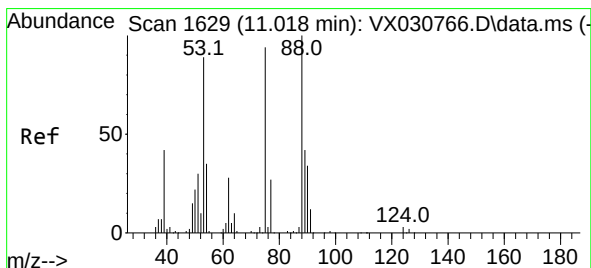
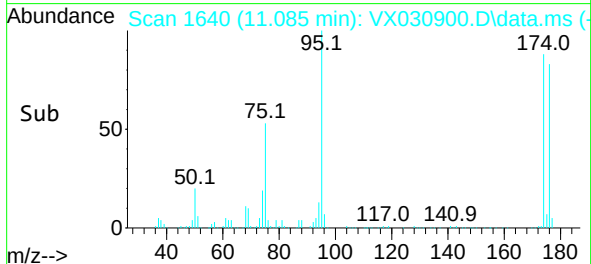
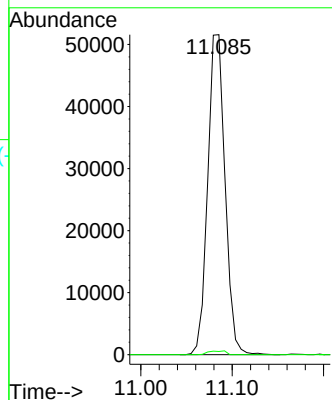
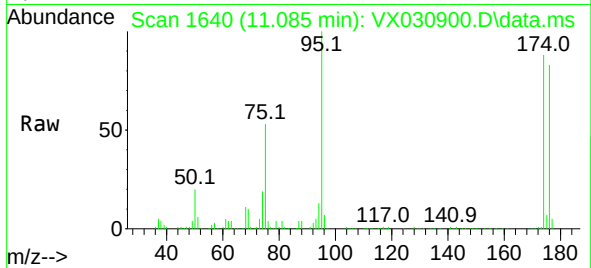




#76  
1,2,3-Trichloropropane  
Concen: 25.769 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
GM38-RW3-MW1-20220824

Tgt Ion: 75 Resp: 68126  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.8 59.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 83.142 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX030900.D  
Acq: 28 Aug 2022 04:01

Tgt Ion: 75 Resp: 68126  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.0 34.8 52.2#

