

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090222\  
 Data File : VX031068.D  
 Acq On : 02 Sep 2022 15:38  
 Operator : JC/MD  
 Sample : N4297-11  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW202D1-20220820

Quant Time: Sep 03 00:50:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090122W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 02 02:49:21 2022  
 Response via : Initial Calibration

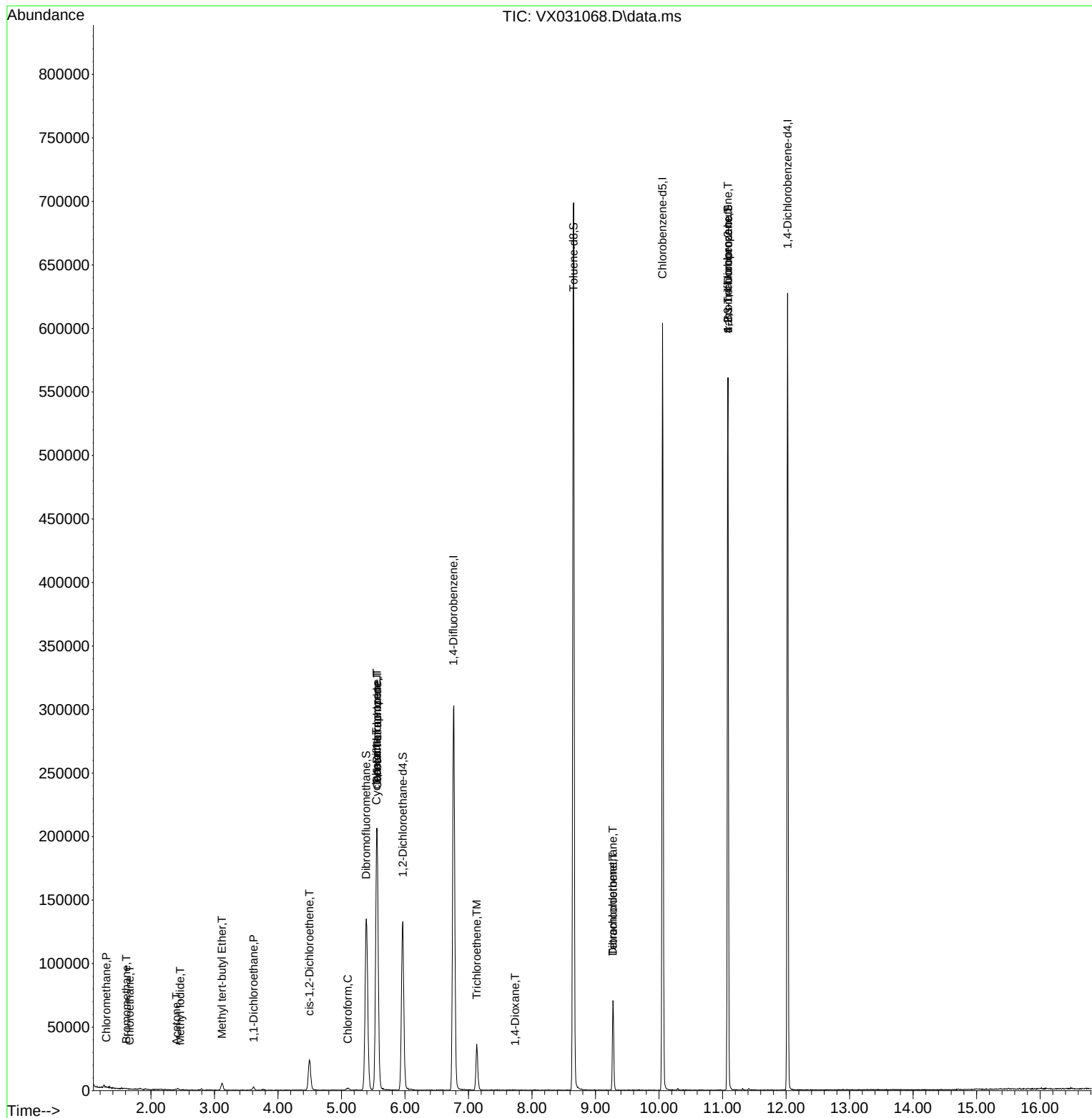
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 212009   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 336698   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 303716   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 138086   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 126867   | 46.507    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 93.020%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 125608   | 51.120    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 102.240% |
| 50) Toluene-d8                | 8.653  | 98    | 445594   | 49.275    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 98.540%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 150685   | 47.178    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 94.360%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.294  | 50    | 240      | 0.814     | ug/l   | 95       |
| 5) Bromomethane               | 1.611  | 94    | 239      | 0.235     | ug/l # | 47       |
| 6) Chloroethane               | 1.666  | 64    | 98       | 1.797     | ug/l # | 41       |
| 10) Methyl Iodide             | 2.459  | 142   | 167      | 2.972     | ug/l # | 76       |
| 11) Tert butyl alcohol        | 2.965  | 59    | 20       | Below Cal | #      | 1        |
| 16) Acetone                   | 2.398  | 43    | 654      | 0.621     | ug/l   | 100      |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 6507     | 0.858     | ug/l   | 93       |
| 20) Methylene Chloride        | 2.800  | 84    | 586      | Below Cal | #      | 54       |
| 24) 1,1-Dichloroethane        | 3.617  | 63    | 3000     | 0.676     | ug/l # | 90       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 17396    | 5.663     | ug/l   | 81       |
| 30) Chloroform                | 5.099  | 83    | 2354     | 0.483     | ug/l # | 75       |
| 31) Cyclohexane               | 5.550  | 56    | 2975     | 0.798     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 13220    | 3.841     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 19709    | 5.517     | ug/l # | 18       |
| 44) Trichloroethene           | 7.129  | 130   | 14729    | 4.709     | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.732  | 88    | 23       | 0.320     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 12947    | 4.577     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 14014    | 4.621     | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 69028    | 21.147    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 69028    | 66.459    | ug/l # | 12       |
| -----                         |        |       |          |           |        |          |

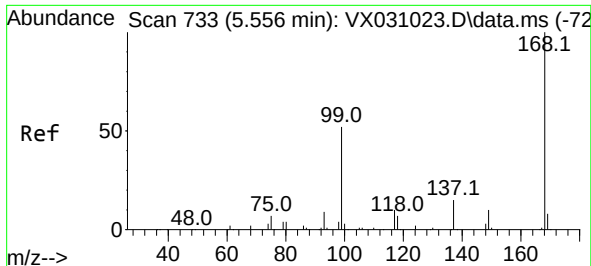
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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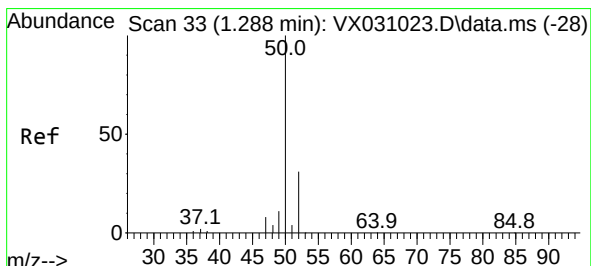
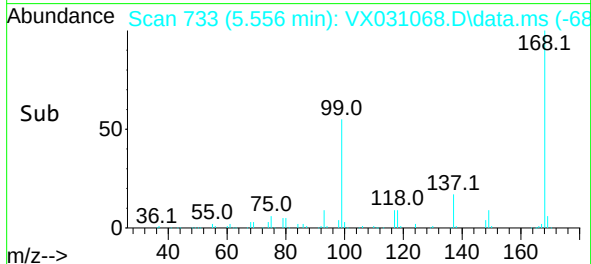
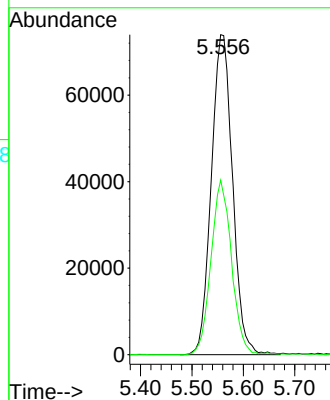
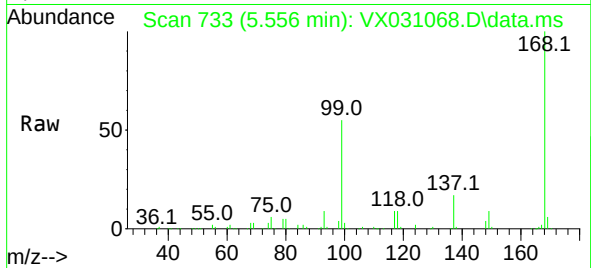




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

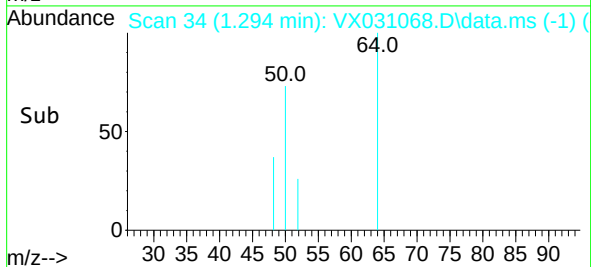
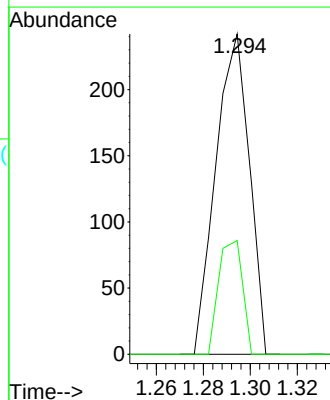
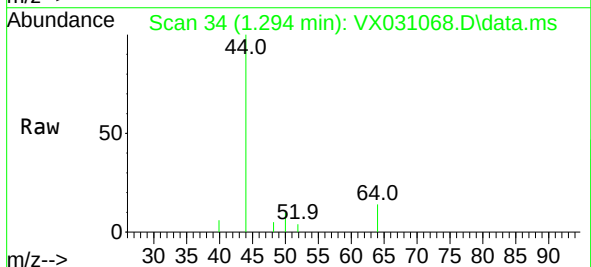
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

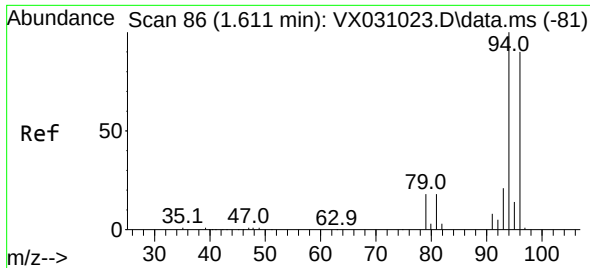
Tgt Ion:168 Resp: 212009  
Ion Ratio Lower Upper  
168 100  
99 54.6 44.0 66.0



#3  
Chloromethane  
Concen: 0.814 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 50 Resp: 240  
Ion Ratio Lower Upper  
50 100  
52 35.5 26.3 39.5

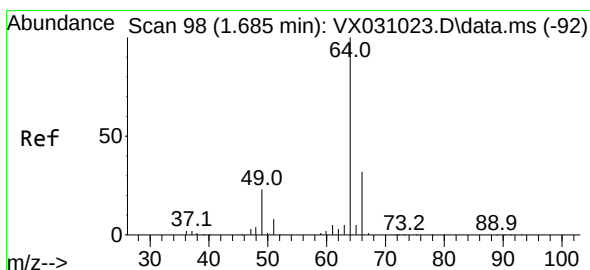
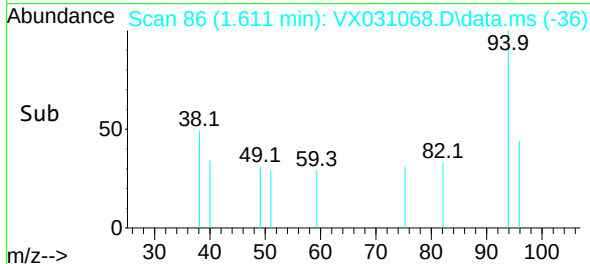
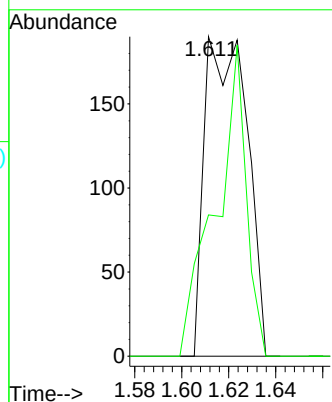
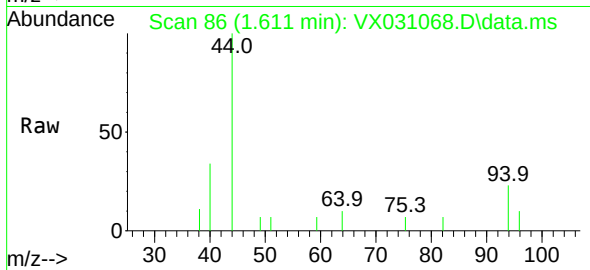




#5  
Bromomethane  
Concen: 0.235 ug/l  
RT: 1.611 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

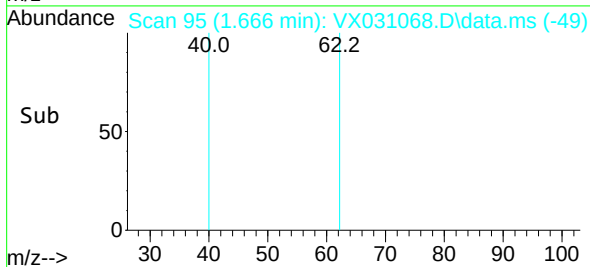
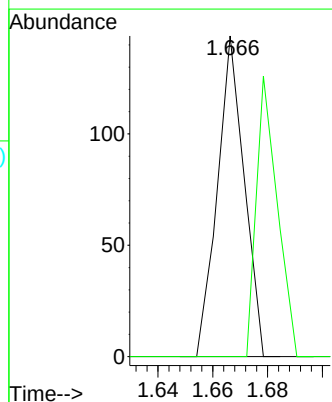
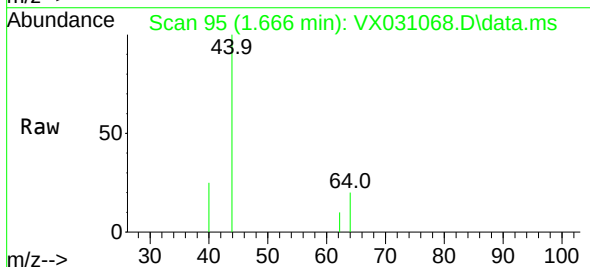
Instrument :  
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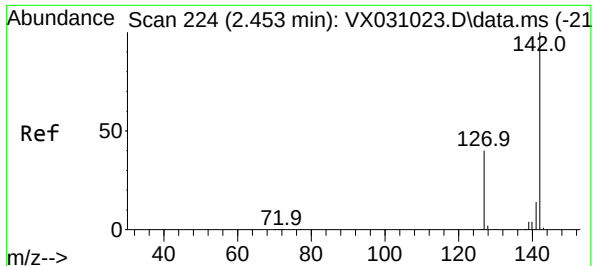
Tgt Ion: 94 Resp: 239  
Ion Ratio Lower Upper  
94 100  
96 44.2 76.9 115.3#



#6  
Chloroethane  
Concen: 1.797 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. -0.019 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 64 Resp: 98  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.2 40.8#

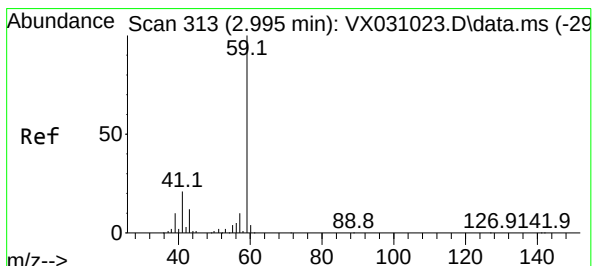
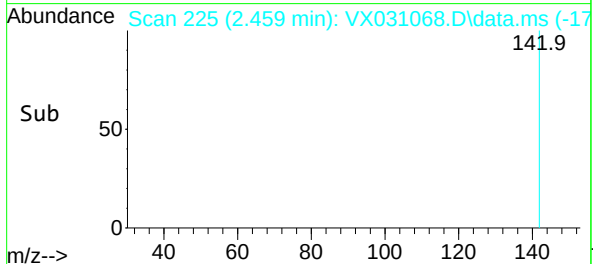
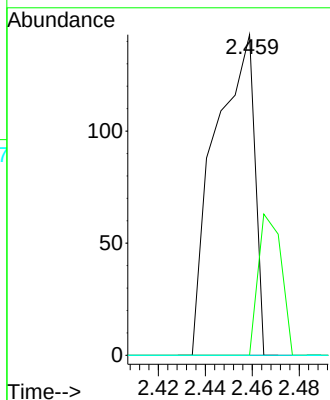
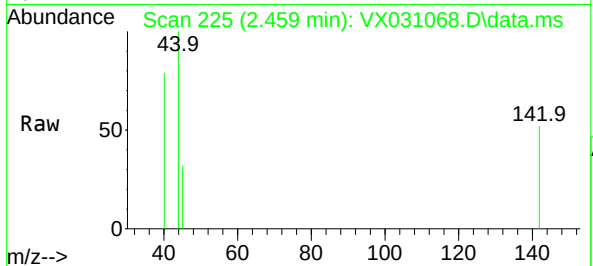




#10  
Methyl Iodide  
Concen: 2.972 ug/l  
RT: 2.459 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

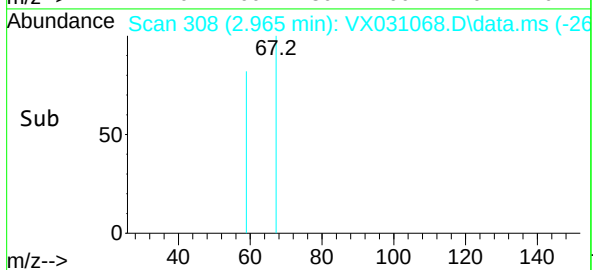
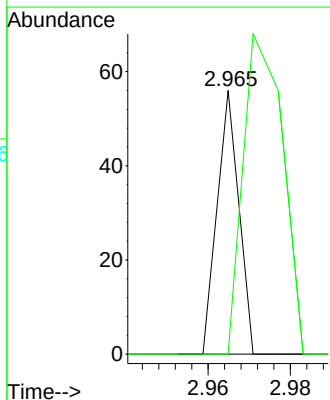
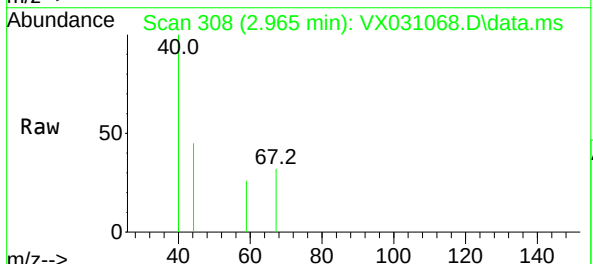
Instrument :  
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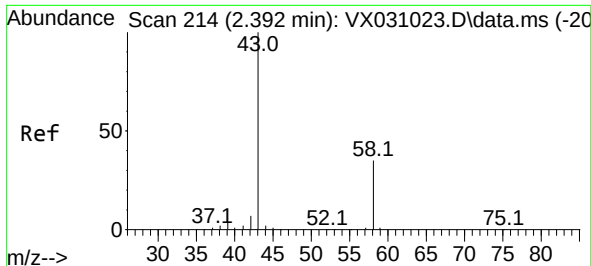
Tgt Ion:142 Resp: 167  
Ion Ratio Lower Upper  
142 100  
127 25.7 30.2 45.2#  
141 0.0 11.3 16.9#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.965 min Scan# 308  
Delta R.T. -0.024 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 59 Resp: 20  
Ion Ratio Lower Upper  
59 100  
57 225.0 7.4 11.2#

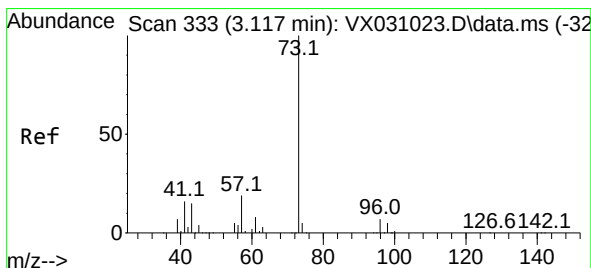
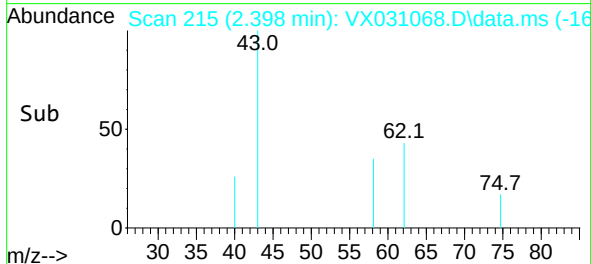
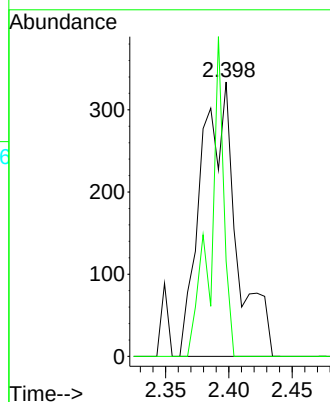
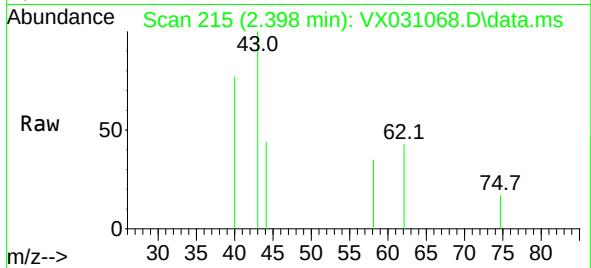




#16  
Acetone  
Concen: 0.621 ug/l  
RT: 2.398 min Scan# 214  
Delta R.T. 0.012 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

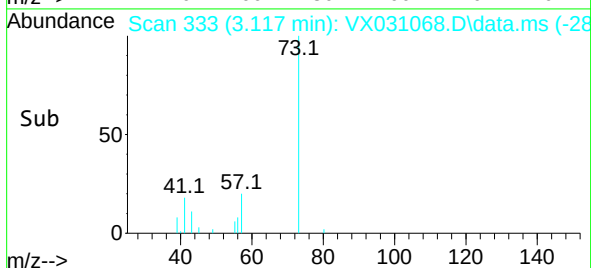
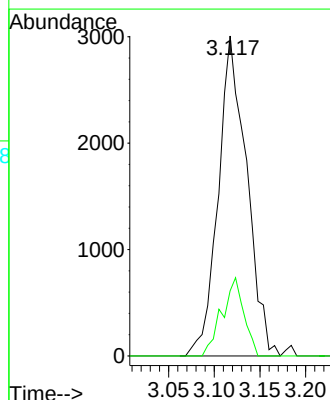
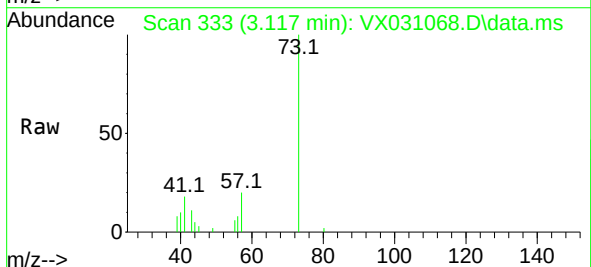
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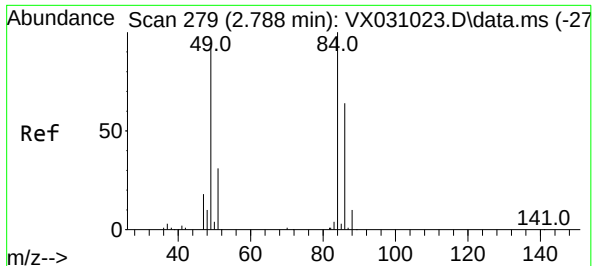
Tgt Ion: 43 Resp: 654  
Ion Ratio Lower Upper  
43 100  
58 34.7 27.7 41.5



#19  
Methyl tert-butyl Ether  
Concen: 0.858 ug/l  
RT: 3.117 min Scan# 333  
Delta R.T. 0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 73 Resp: 6507  
Ion Ratio Lower Upper  
73 100  
57 20.4 19.0 28.6

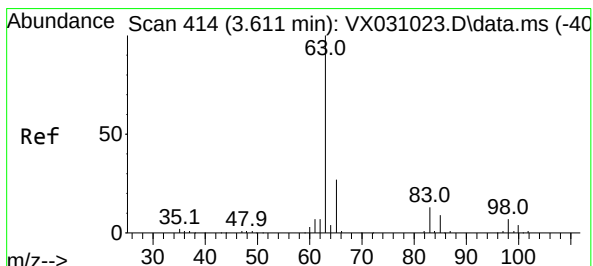
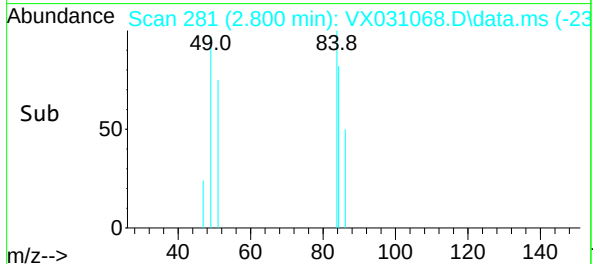
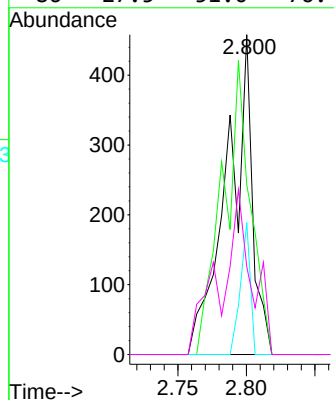
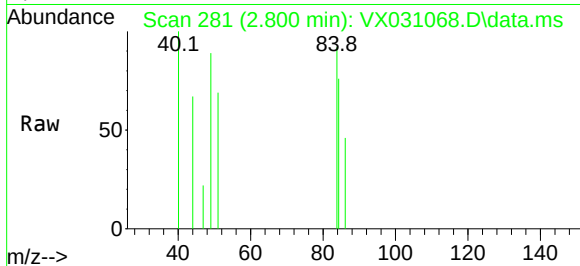




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.800 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

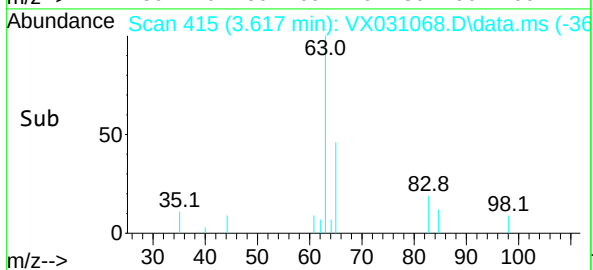
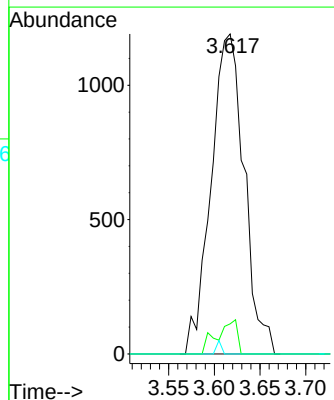
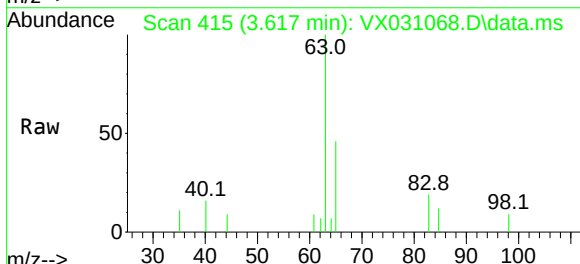
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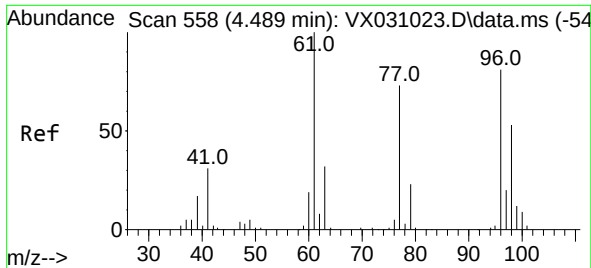
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 586    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 53.1  | 93.8  | 140.6# |
| 51       | 41.3  | 29.4  | 44.0   |
| 86       | 27.5  | 51.0  | 76.4#  |



#24  
1,1-Dichloroethane  
Concen: 0.676 ug/l  
RT: 3.617 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 3000  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 9.4   | 3.5   | 10.5  |
| 100      | 0.0   | 2.3   | 6.9#  |

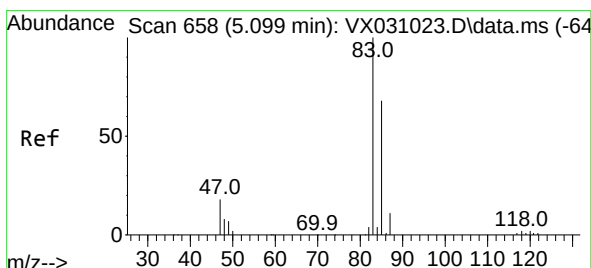
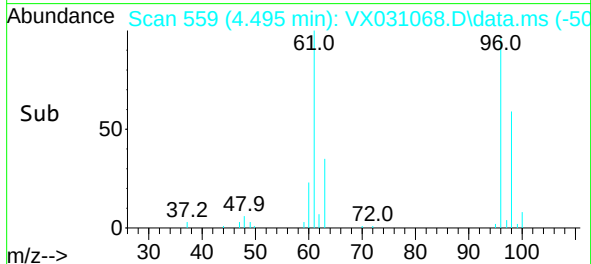
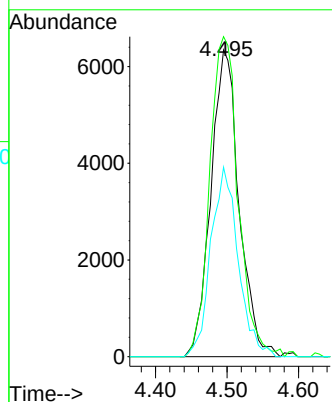
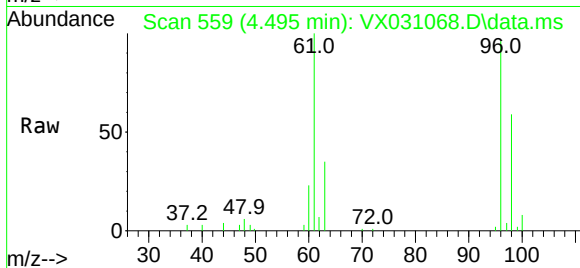




#27  
 cis-1,2-Dichloroethene  
 Concen: 5.663 ug/l  
 RT: 4.495 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VX031068.D  
 Acq: 02 Sep 2022 15:38

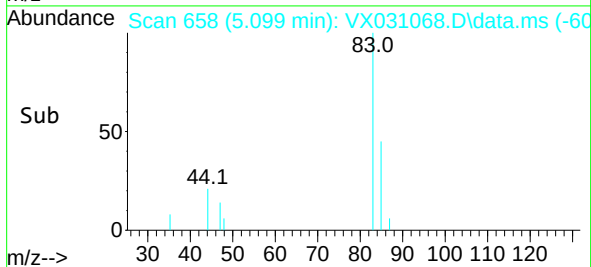
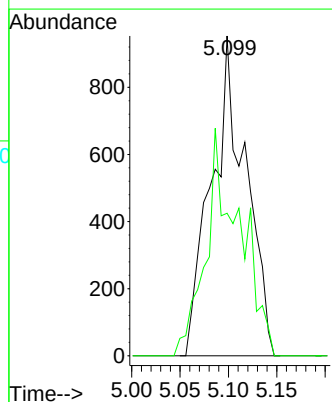
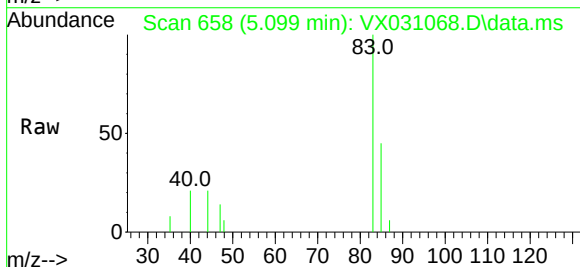
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 MSVOA\_X  
 ClientSampleId :  
 MW202D1-20220820

Tgt Ion: 96 Resp: 17396  
 Ion Ratio Lower Upper  
 96 100  
 61 105.3 0.0 270.0  
 98 59.8 0.0 127.8

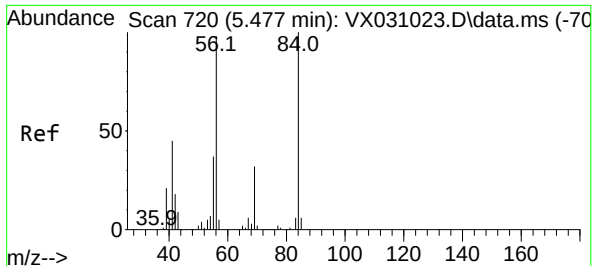


#30  
 Chloroform  
 Concen: 0.483 ug/l  
 RT: 5.099 min Scan# 658  
 Delta R.T. -0.000 min  
 Lab File: VX031068.D  
 Acq: 02 Sep 2022 15:38

Tgt Ion: 83 Resp: 2354  
 Ion Ratio Lower Upper  
 83 100  
 85 44.6 51.5 77.3#

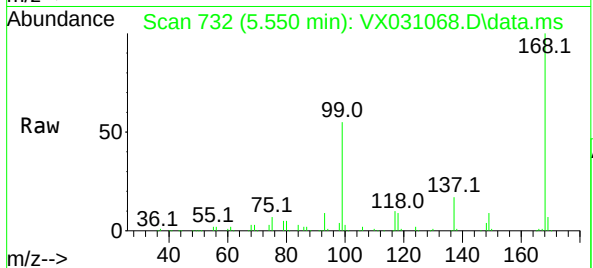




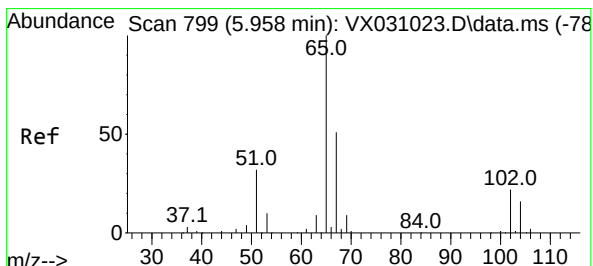
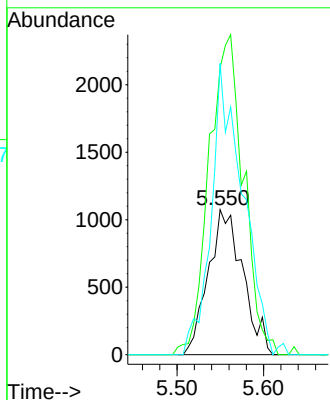
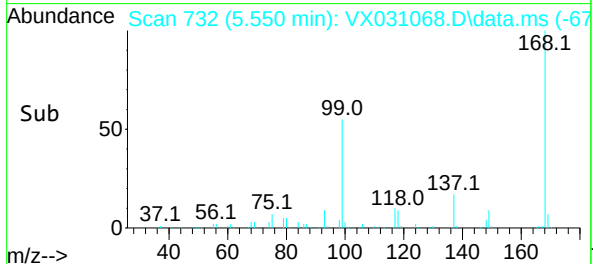


#31  
Cyclohexane  
Concen: 0.798 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.073 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

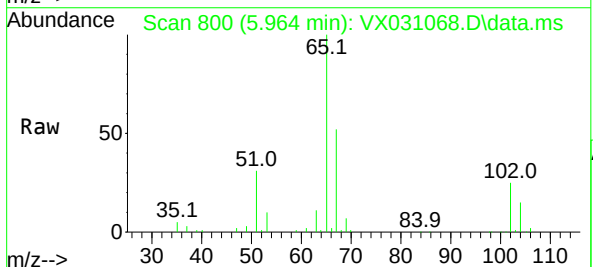
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820



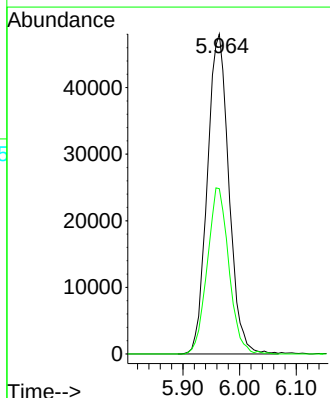
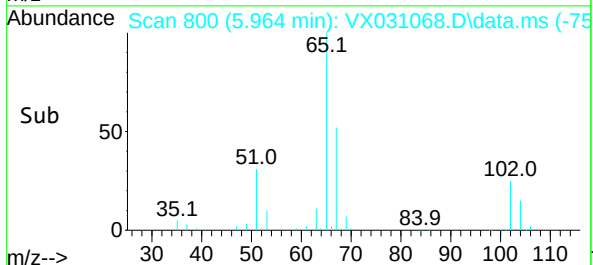
Tgt Ion: 56 Resp: 2975  
Ion Ratio Lower Upper  
56 100  
69 198.0 25.4 38.0#  
84 201.0 68.9 103.3#

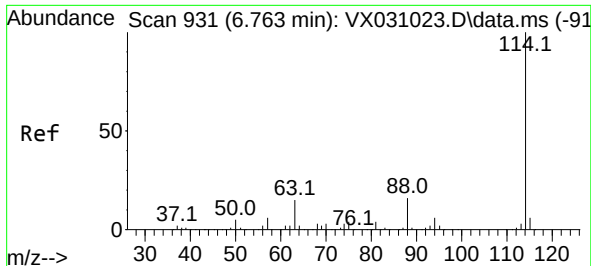


#33  
1,2-Dichloroethane-d4  
Concen: 46.507 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38



Tgt Ion: 65 Resp: 126867  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 109.6

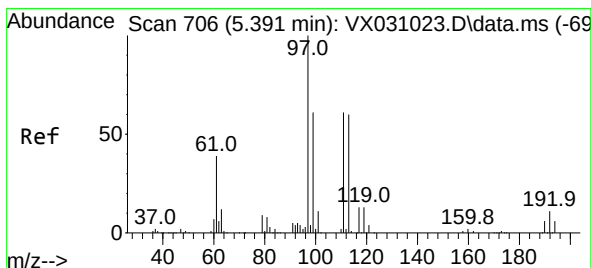
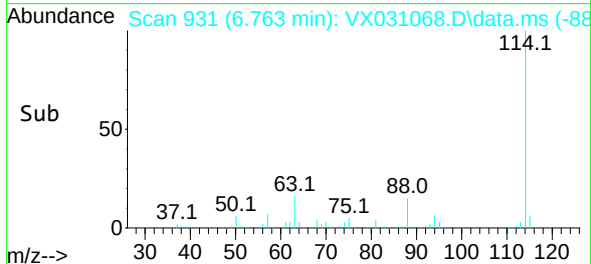
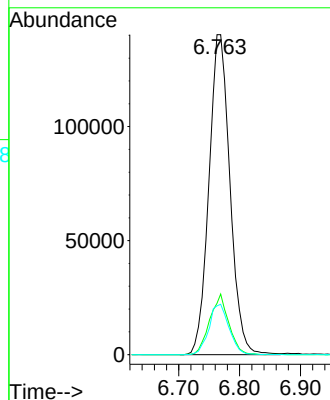
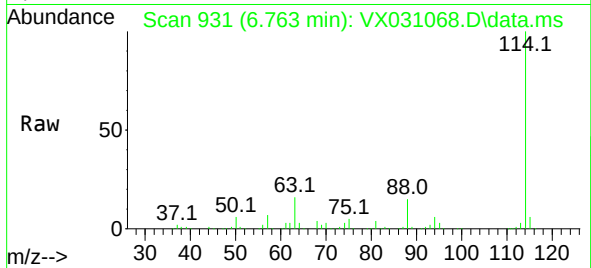




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

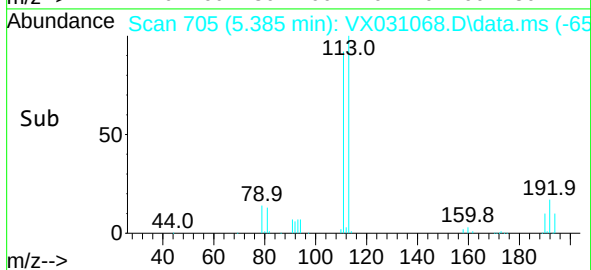
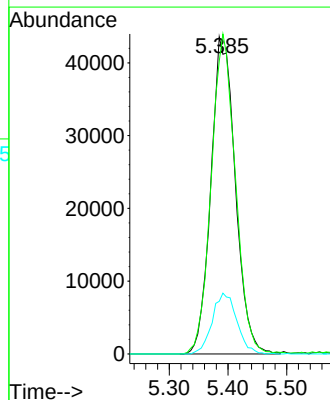
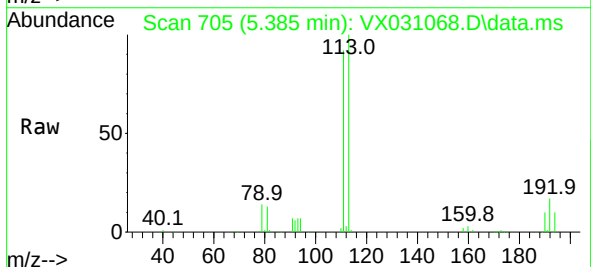
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

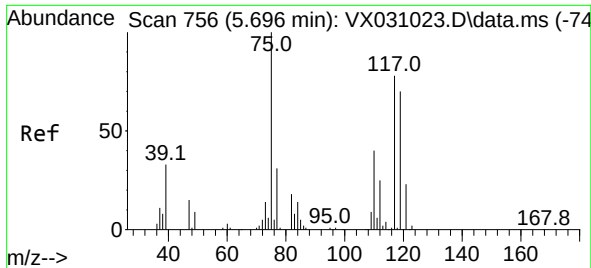
Tgt Ion:114 Resp: 336698  
Ion Ratio Lower Upper  
114 100  
63 16.1 0.0 38.4  
88 15.2 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 51.120 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion:113 Resp: 125608  
Ion Ratio Lower Upper  
113 100  
111 100.2 83.2 124.8  
192 19.3 14.8 22.2

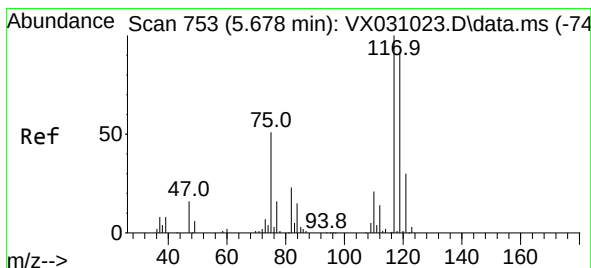
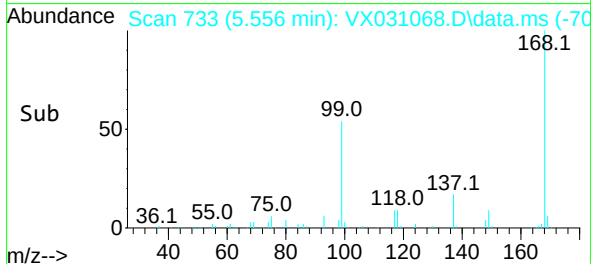
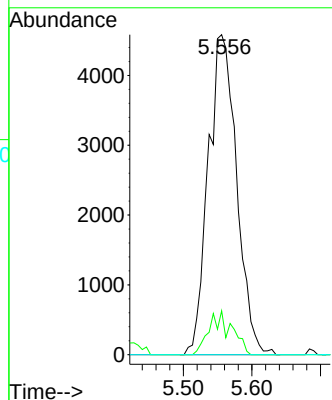
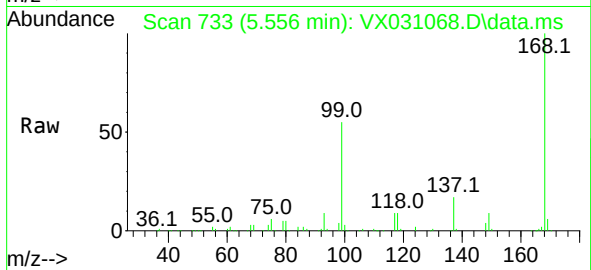




#36  
1,1-Dichloropropene  
Concen: 3.841 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

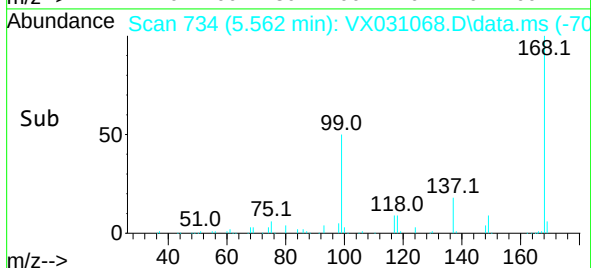
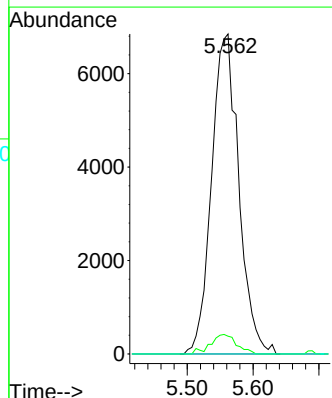
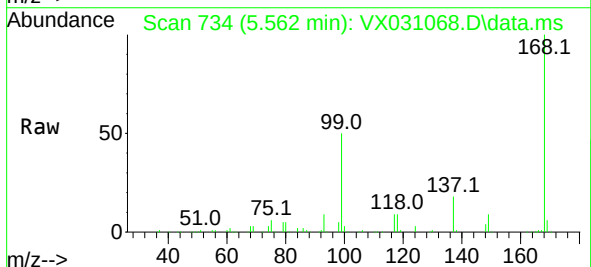
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

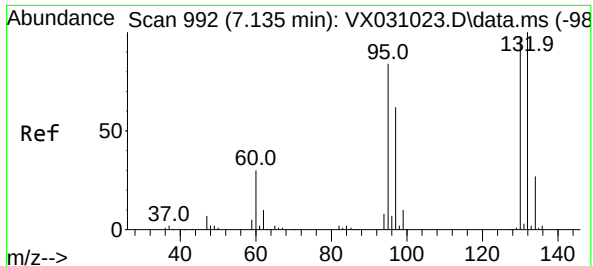
Tgt Ion: 75 Resp: 13220  
Ion Ratio Lower Upper  
75 100  
110 10.9 19.3 57.9#  
77 0.0 24.4 36.6#



#38  
Carbon Tetrachloride  
Concen: 5.517 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.122 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 117 Resp: 19709  
Ion Ratio Lower Upper  
117 100  
119 5.6 74.1 111.1#  
121 0.0 25.8 38.8#

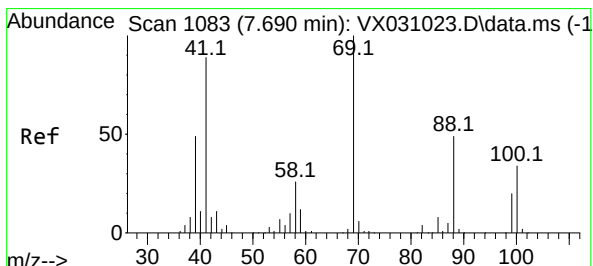
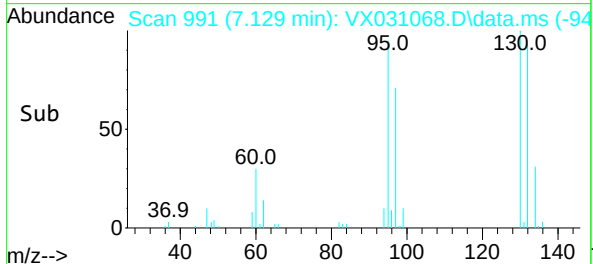
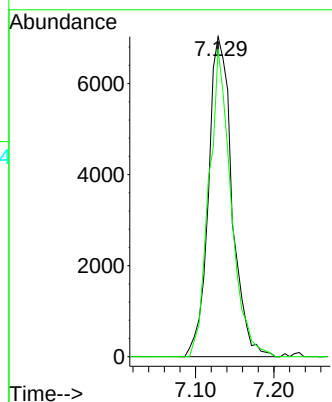
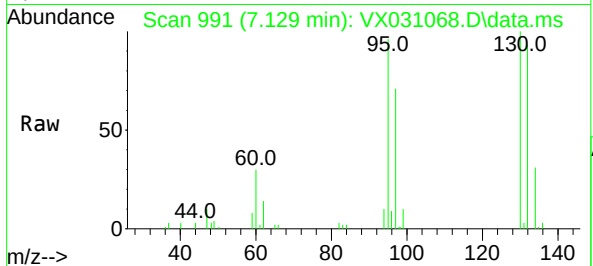




#44  
Trichloroethene  
Concen: 4.709 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

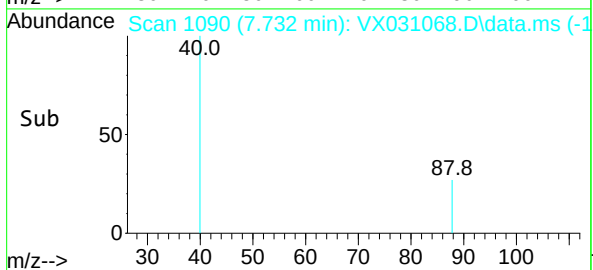
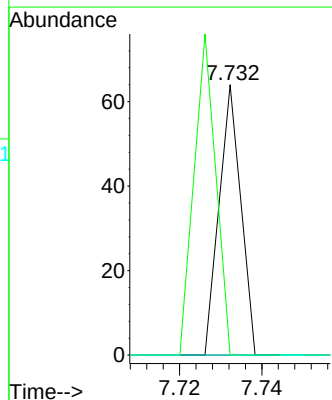
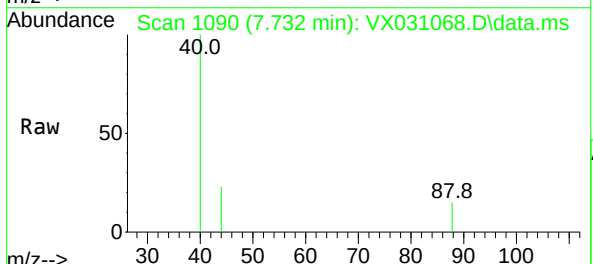
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

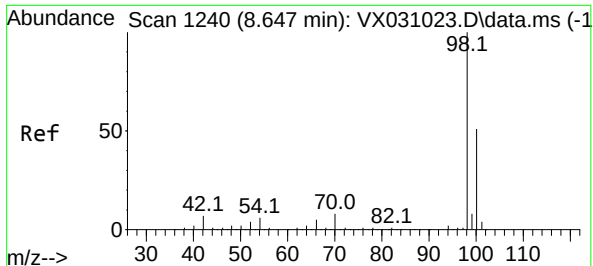
Tgt Ion:130 Resp: 14729  
Ion Ratio Lower Upper  
130 100  
95 96.0 0.0 194.8



#49  
1,4-Dioxane  
Concen: 0.320 ug/l  
RT: 7.732 min Scan# 1090  
Delta R.T. 0.055 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 88 Resp: 23  
Ion Ratio Lower Upper  
88 100  
43 121.7 23.8 35.8#  
58 0.0 53.8 80.6#

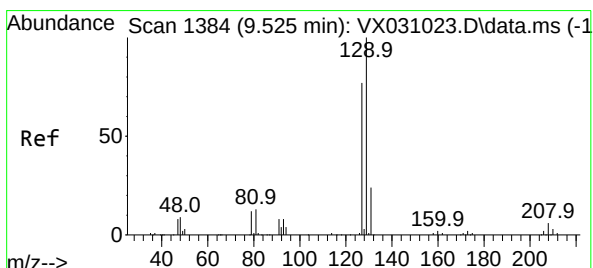
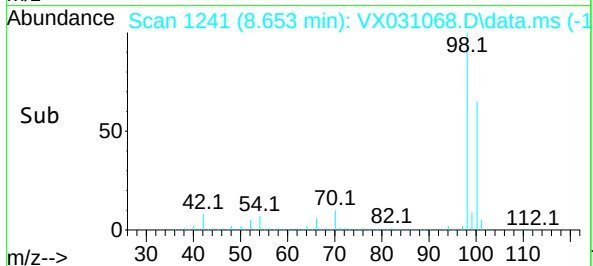
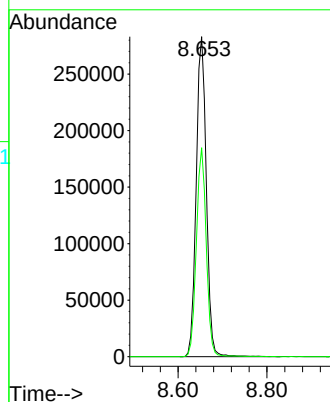
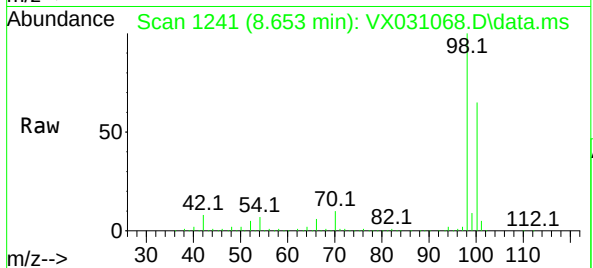




#50  
Toluene-d8  
Concen: 49.275 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

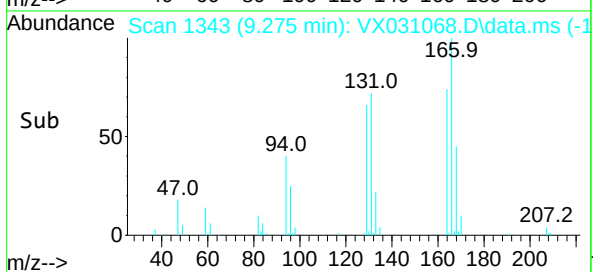
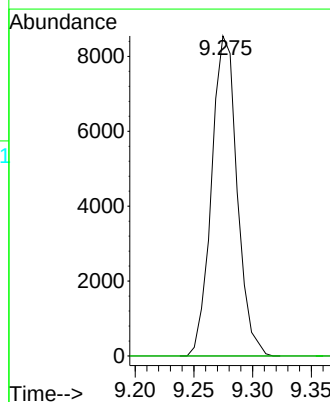
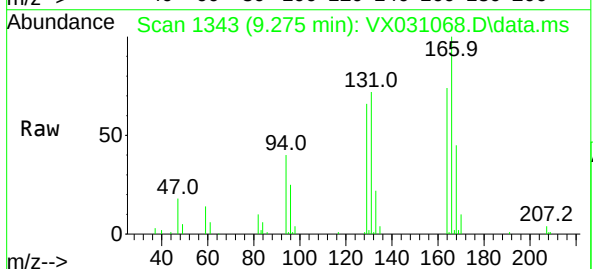
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

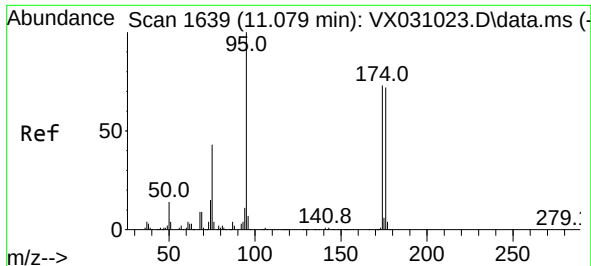
Tgt Ion: 98 Resp: 445594  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.3 78.5



#60  
Dibromochloromethane  
Concen: 4.577 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 129 Resp: 12947  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#

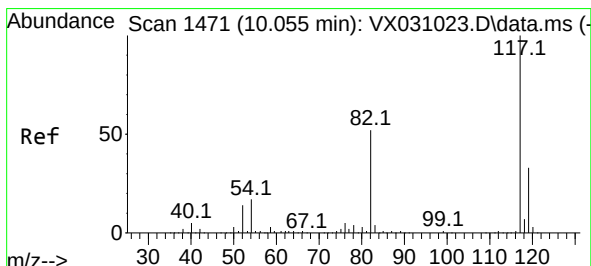
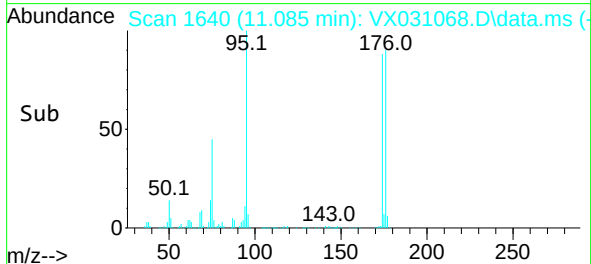
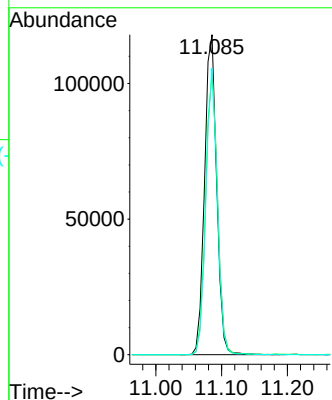
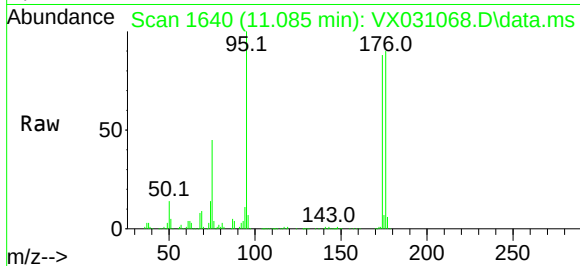




#62  
4-Bromofluorobenzene  
Concen: 47.178 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

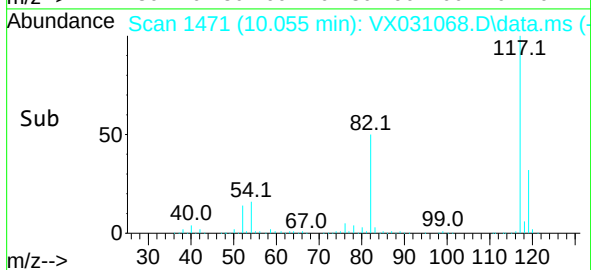
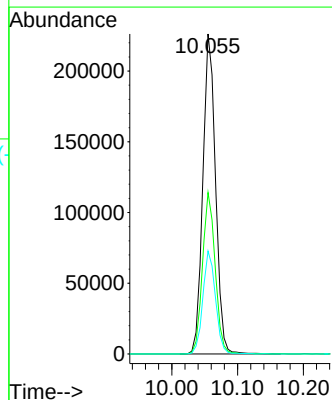
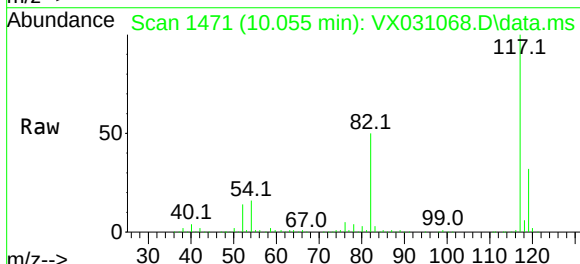
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

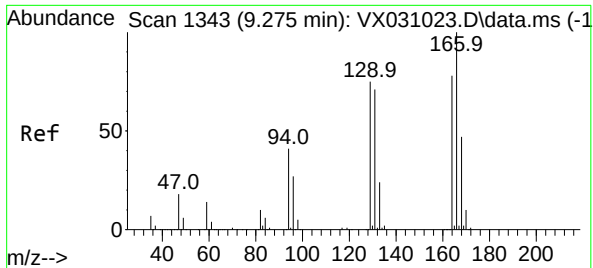
Tgt Ion: 95 Resp: 150685  
Ion Ratio Lower Upper  
95 100  
174 87.8 0.0 149.0  
176 85.1 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 117 Resp: 303716  
Ion Ratio Lower Upper  
117 100  
82 50.5 42.7 64.1  
119 32.1 25.4 38.2

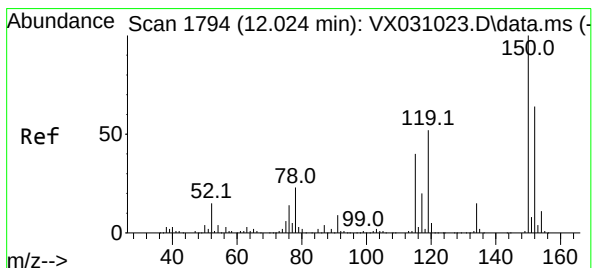
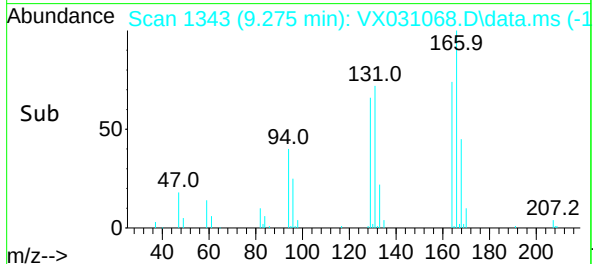
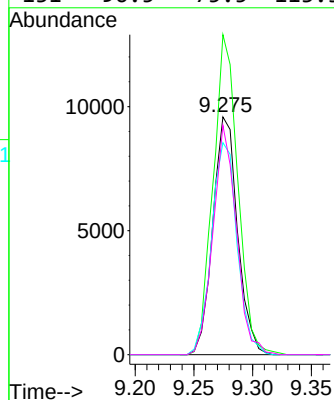
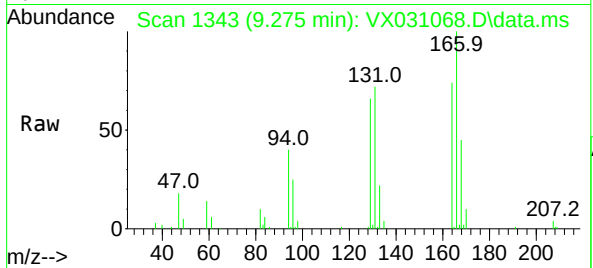




#64  
Tetrachloroethene  
Concen: 4.621 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

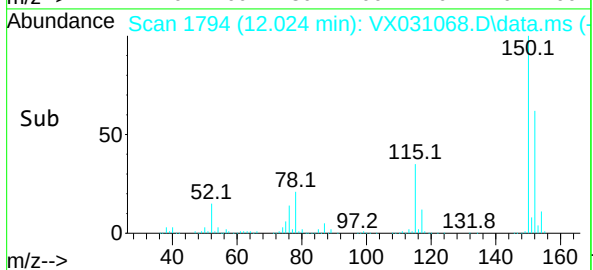
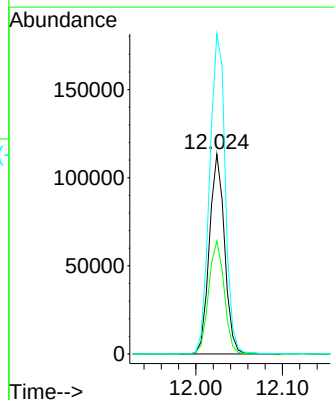
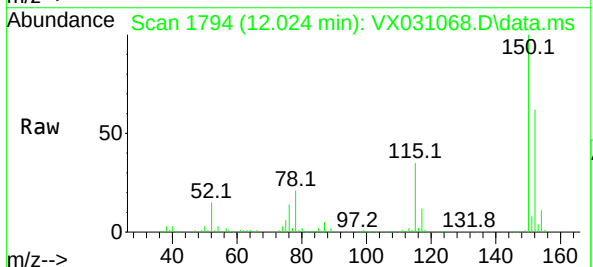
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MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

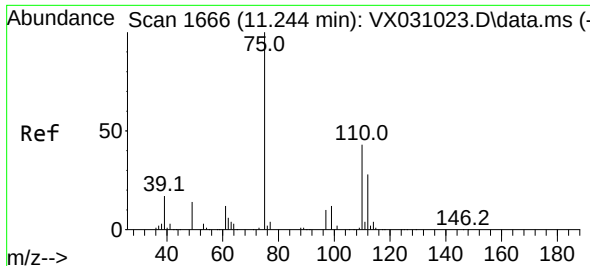
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 14014       |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 166         | 134.6 | 98.2 147.4  |
| 129         | 89.2  | 80.8 121.2  |
| 131         | 96.5  | 75.5 113.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:152 | Resp: | 138086      |
| Ion         | Ratio | Lower Upper |
| 152         | 100   |             |
| 115         | 57.7  | 40.5 121.5  |
| 150         | 164.3 | 0.0 347.0   |

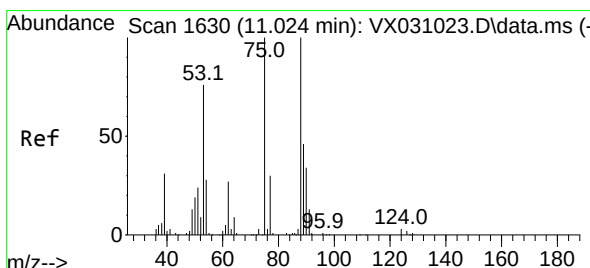
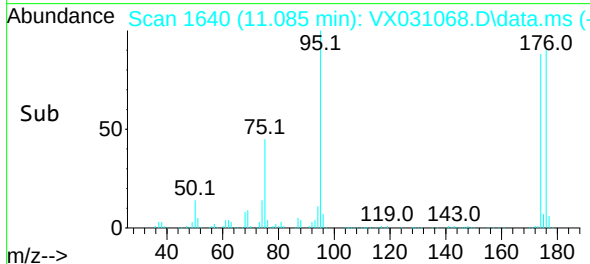
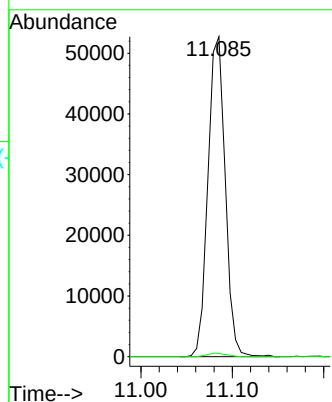
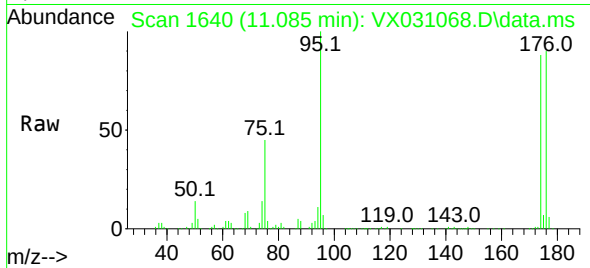




#76  
1,2,3-Trichloropropane  
Concen: 21.147 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Instrument :  
MSVOA\_X  
ClientSampleId :  
MW202D1-20220820

Tgt Ion: 75 Resp: 69028  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.8 59.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 66.459 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX031068.D  
Acq: 02 Sep 2022 15:38

Tgt Ion: 75 Resp: 69028  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.2 111.4#  
89 0.0 34.8 52.2#

