

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081721\  
 Data File : VX023801.D  
 Acq On : 18 Aug 2021 07:00  
 Operator : JC/MD  
 Sample : M3441-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-5

Quant Time: Aug 18 07:48:00 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 11:57:51 2021  
 Response via : Initial Calibration

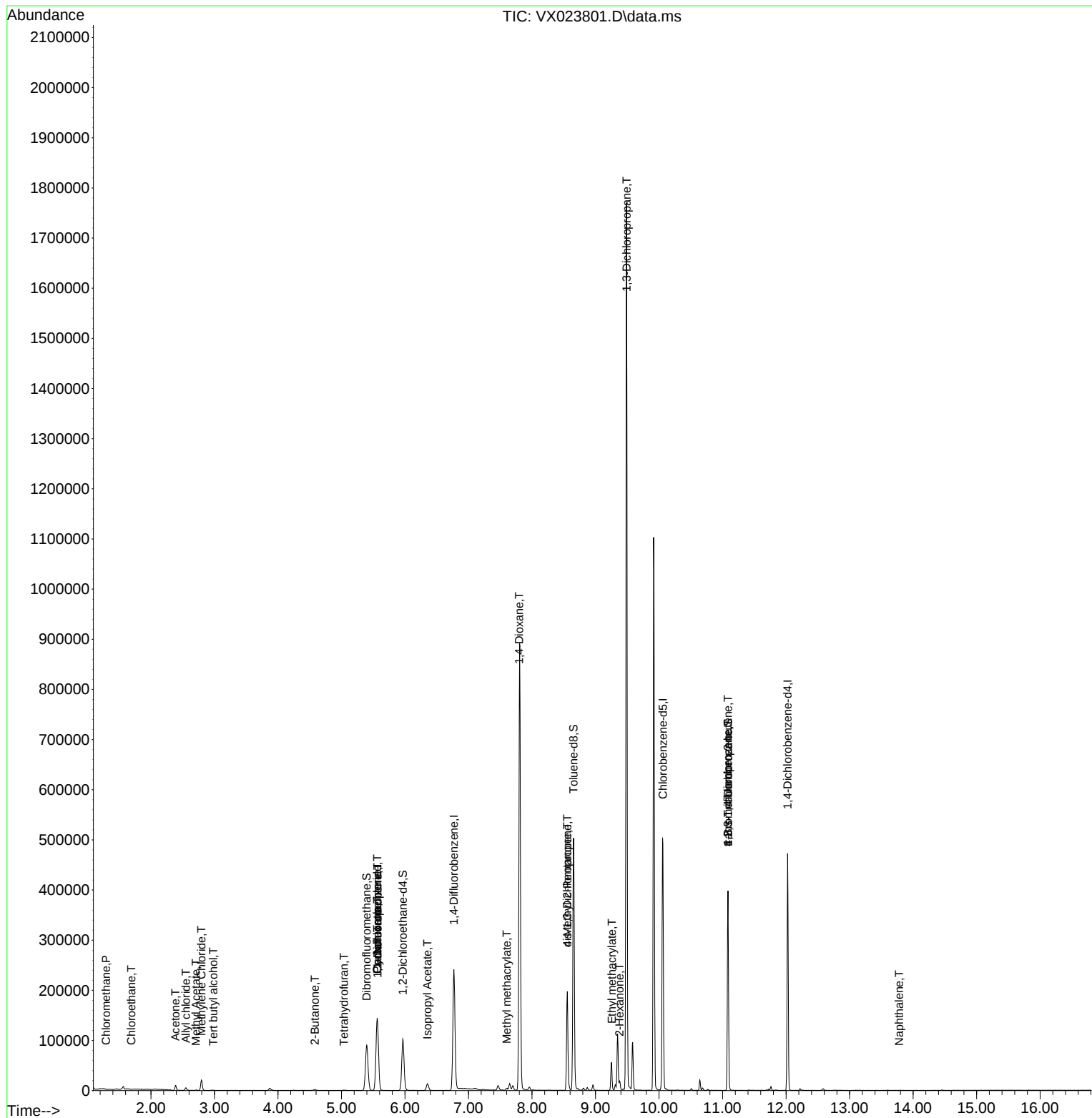
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 134858              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 235450              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 226233              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 90255               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 97727               | 51.922 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 103.840% |        |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 76317               | 48.972 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 97.940%  |        |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 297073              | 50.086 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 100.180% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 98605               | 45.160 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 90.320%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 3) Chloromethane              | 1.294          | 50   | 328                 | 0.210  | ug/l   | 91       |
| 6) Chloroethane               | 1.691          | 64   | 191                 | 2.361  | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.983          | 59   | 833                 | 2.188  | ug/l # | 73       |
| 14) Allyl chloride            | 2.550          | 41   | 643                 | 0.270  | ug/l # | 5        |
| 16) Acetone                   | 2.386          | 43   | 10158               | 12.070 | ug/l   | 94       |
| 18) Methyl Acetate            | 2.709          | 43   | 1477                | 0.703  | ug/l # | 86       |
| 20) Methylene Chloride        | 2.794          | 84   | 8946                | 5.565  | ug/l # | 84       |
| 25) 2-Butanone                | 4.580          | 43   | 3424                | 2.686  | ug/l # | 73       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 881                 | 1.067  | ug/l # | 45       |
| 31) Cyclohexane               | 5.562          | 56   | 3127                | 1.293  | ug/l # | 25       |
| 36) 1,1-Dichloropropene       | 5.568          | 75   | 10287               | 4.718  | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 13597               | 5.980  | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.354          | 43   | 18153               | 4.330  | ug/l   | 95       |
| 48) Methyl methacrylate       | 7.604          | 41   | 5351                | 2.616  | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 117                 | 2.707  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555          | 43   | 68684               | 25.344 | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.555          | 75   | 28411               | 10.878 | ug/l # | 71       |
| 56) Ethyl methacrylate        | 9.256          | 69   | 257                 | 0.846  | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.488          | 76   | 14311               | 5.016  | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 10468               | 5.025  | ug/l # | 19       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 53117               | 25.229 | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 53117               | 74.212 | ug/l # | 12       |
| 95) Naphthalene               | 13.780         | 128  | 176                 | 1.308  | ug/l # | 69       |
| -----                         |                |      |                     |        |        |          |

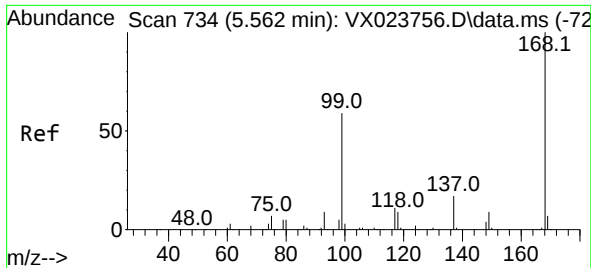
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081721\  
Data File : VX023801.D  
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Sample : M3441-05  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-5

Quant Time: Aug 18 07:48:00 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 17 11:57:51 2021  
Response via : Initial Calibration

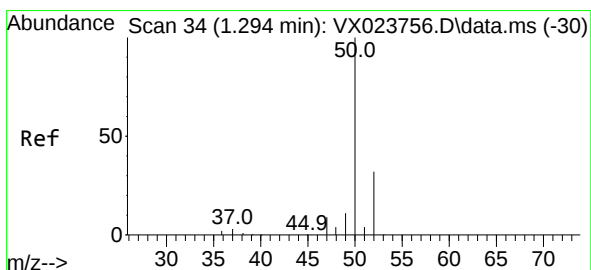
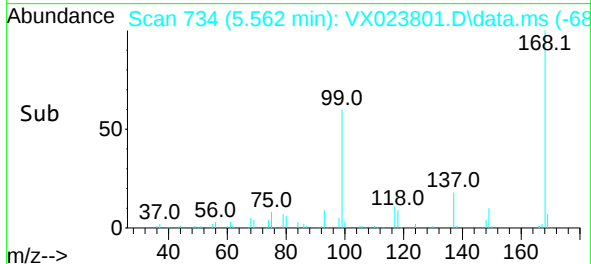
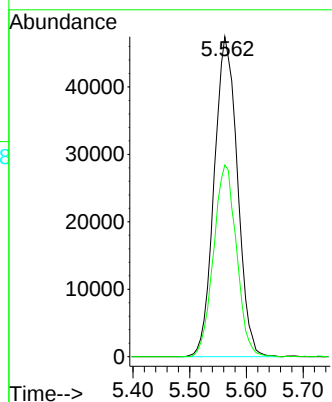
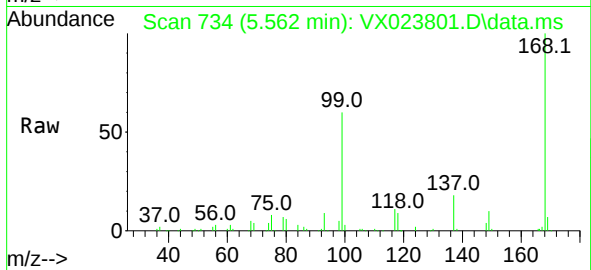




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

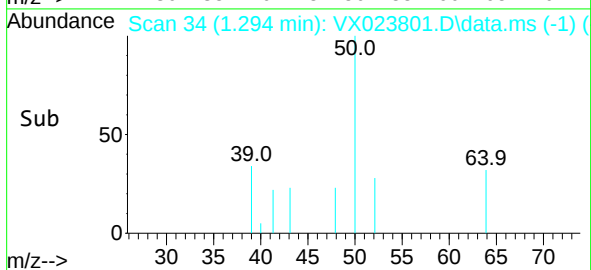
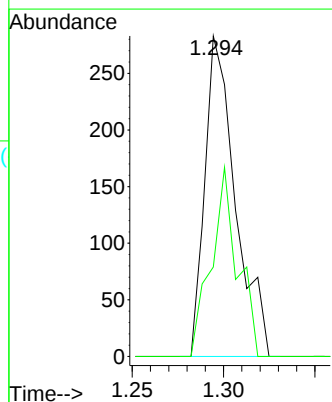
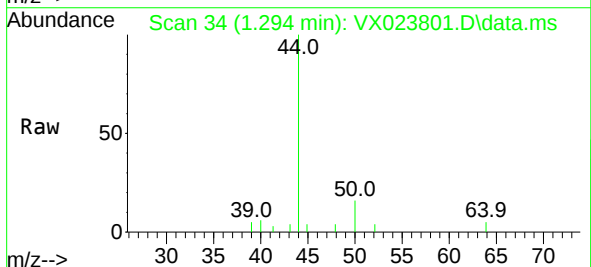
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

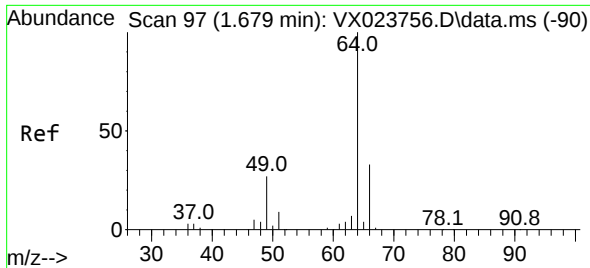
Tgt Ion:168 Resp: 134858  
Ion Ratio Lower Upper  
168 100  
99 59.9 45.8 68.6



#3  
Chloromethane  
Concen: 0.210 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 50 Resp: 328  
Ion Ratio Lower Upper  
50 100  
52 27.9 26.4 39.6

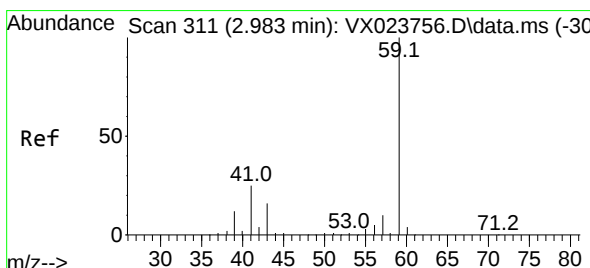
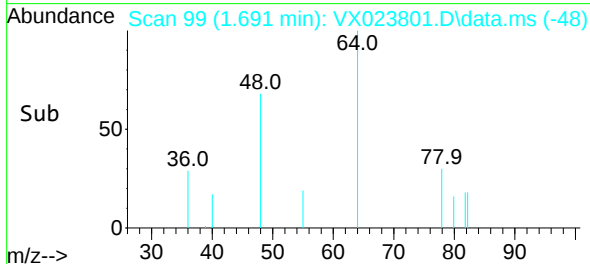
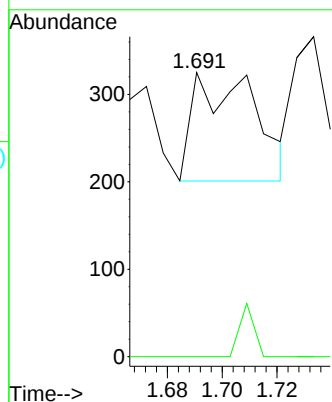
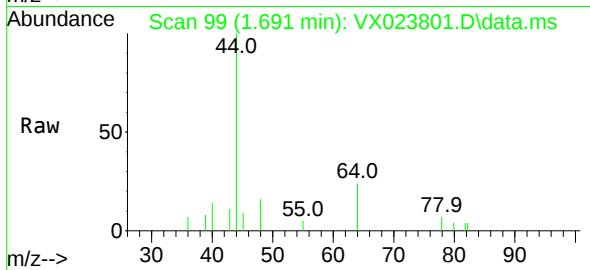




#6  
Chloroethane  
Concen: 2.361 ug/l  
RT: 1.691 min Scan# 99  
Delta R.T. 0.012 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

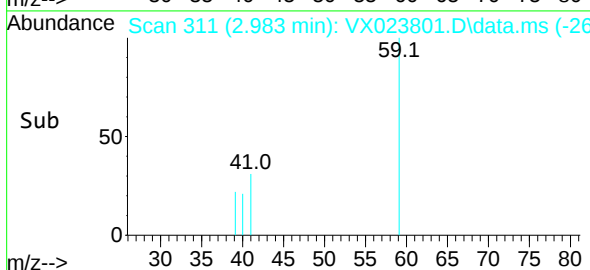
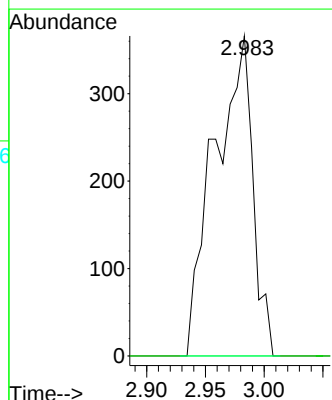
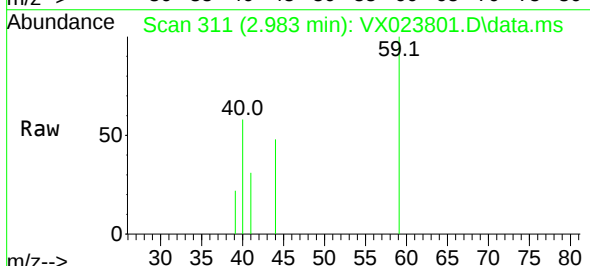
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-5

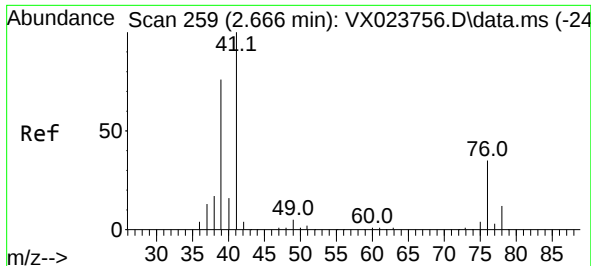
Tgt Ion: 64 Resp: 191  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#11  
Tert butyl alcohol  
Concen: 2.188 ug/l  
RT: 2.983 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 59 Resp: 833  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

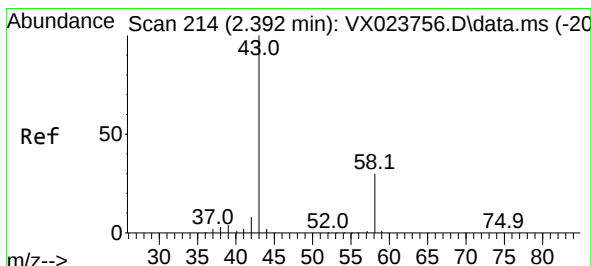
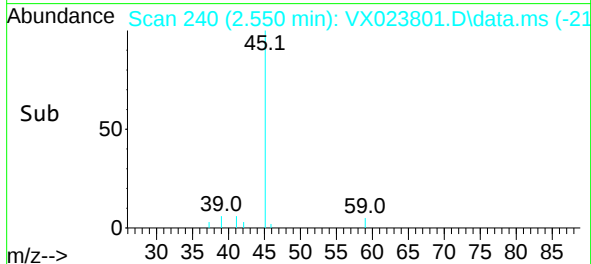
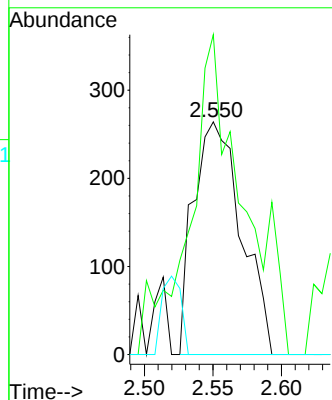
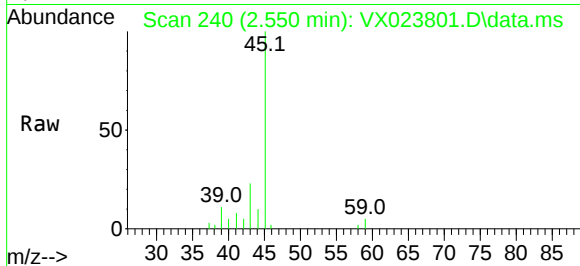




#14  
 Allyl chloride  
 Concen: 0.270 ug/l  
 RT: 2.550 min Scan# 240  
 Delta R.T. -0.116 min  
 Lab File: VX023801.D  
 Acq: 18 Aug 2021 07:00

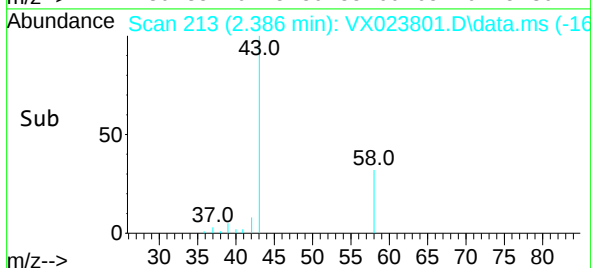
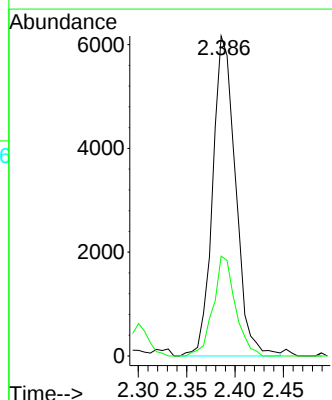
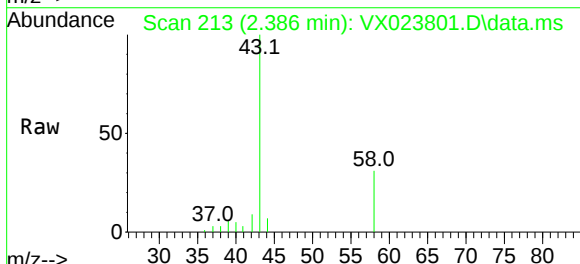
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 WC-5

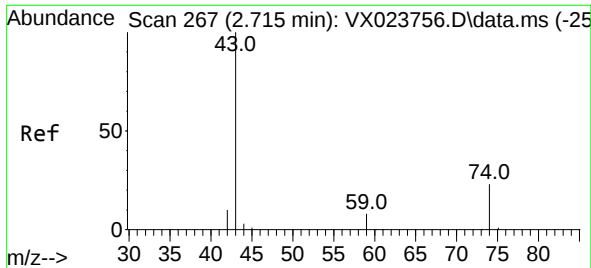
Tgt Ion: 41 Resp: 643  
 Ion Ratio Lower Upper  
 41 100  
 39 153.5 51.6 77.4#  
 76 0.0 30.5 45.7#



#16  
 Acetone  
 Concen: 12.070 ug/l  
 RT: 2.386 min Scan# 213  
 Delta R.T. -0.006 min  
 Lab File: VX023801.D  
 Acq: 18 Aug 2021 07:00

Tgt Ion: 43 Resp: 10158  
 Ion Ratio Lower Upper  
 43 100  
 58 31.2 27.8 41.8

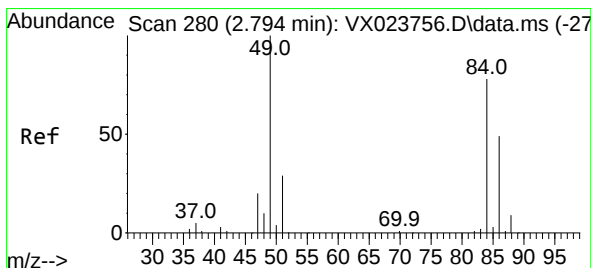
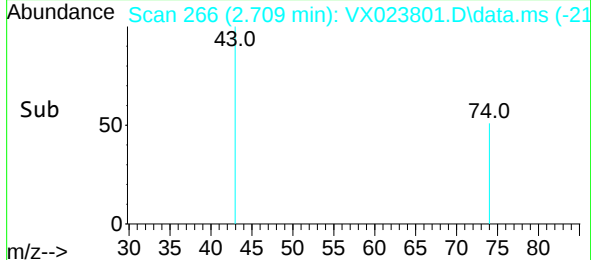
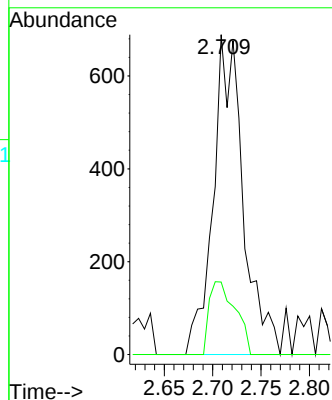
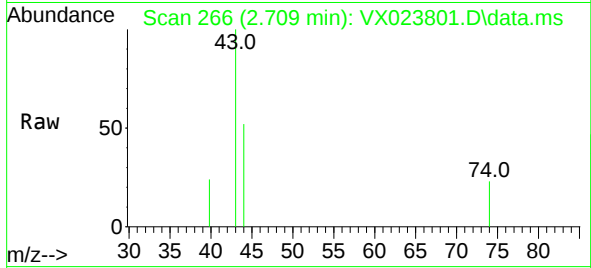




#18  
Methyl Acetate  
Concen: 0.703 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.006 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

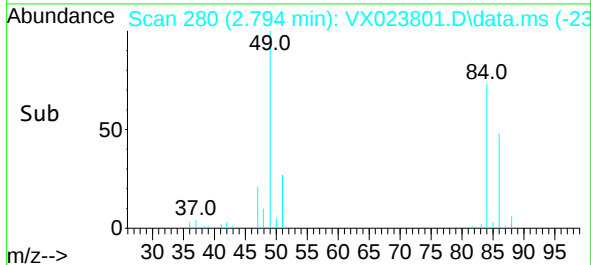
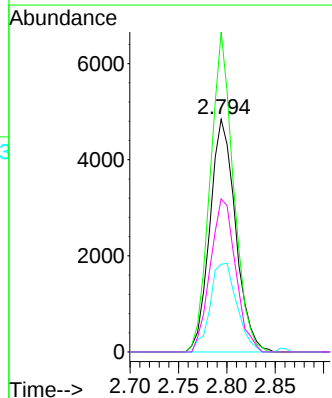
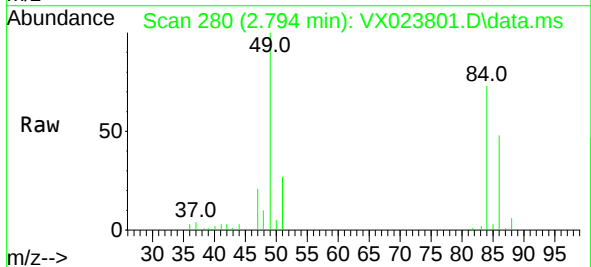
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

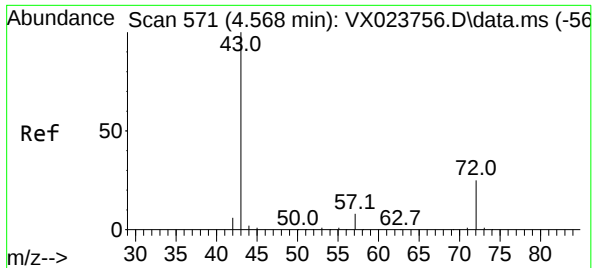
Tgt Ion: 43 Resp: 1477  
Ion Ratio Lower Upper  
43 100  
74 20.0 21.9 32.9#



#20  
Methylene Chloride  
Concen: 5.565 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 84 Resp: 8946  
Ion Ratio Lower Upper  
84 100  
49 137.5 88.6 132.8#  
51 37.7 27.0 40.6  
86 65.8 50.3 75.5

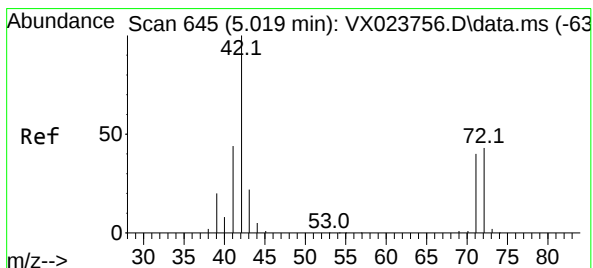
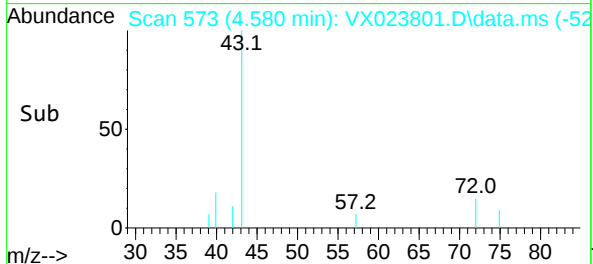
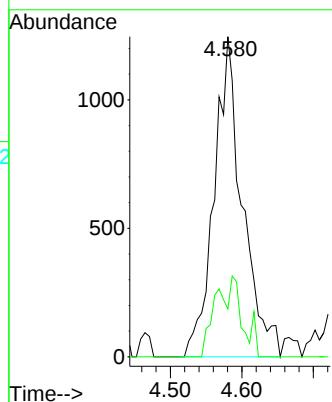
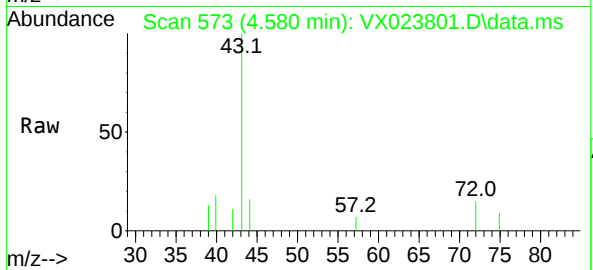




#25  
2-Butanone  
Concen: 2.686 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.012 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

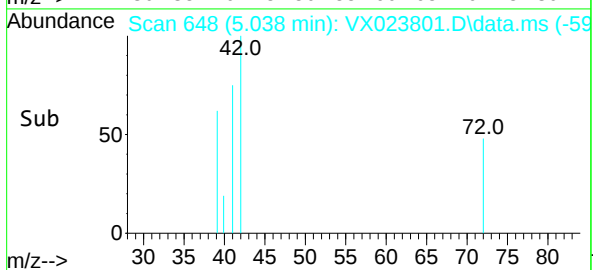
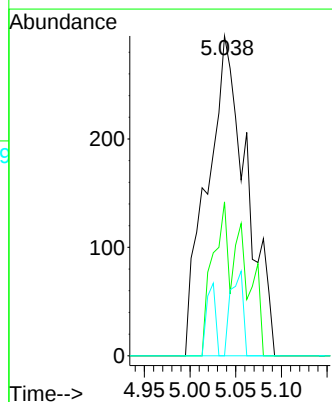
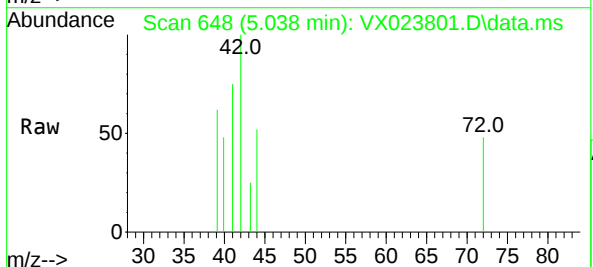
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

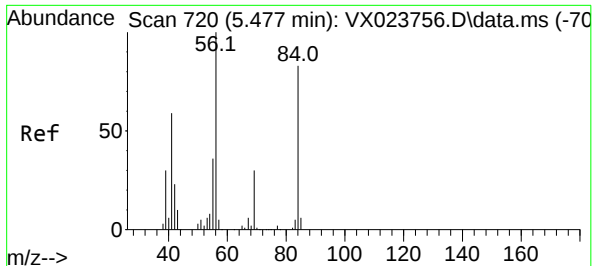
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Ion Ratio Lower Upper  
43 100  
72 14.9 23.7 35.5#



#29  
Tetrahydrofuran  
Concen: 1.067 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.019 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 42 Resp: 881  
Ion Ratio Lower Upper  
42 100  
72 19.5 41.7 62.5#  
71 5.1 38.4 57.6#

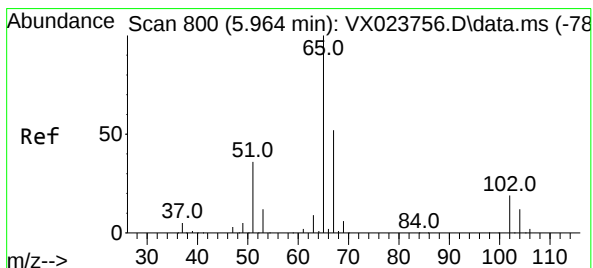
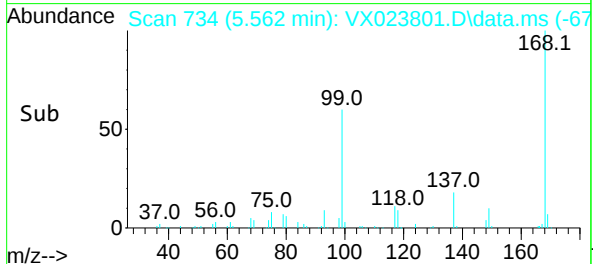
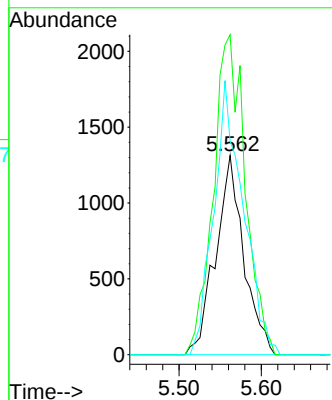
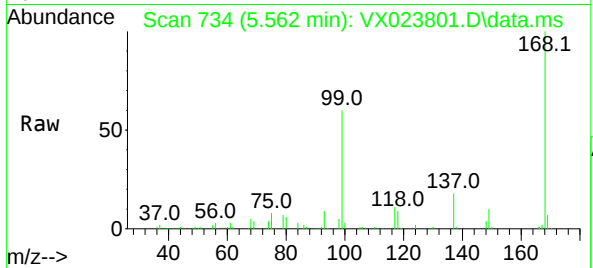




#31  
Cyclohexane  
Concen: 1.293 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

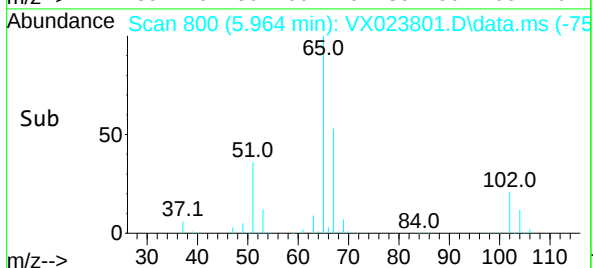
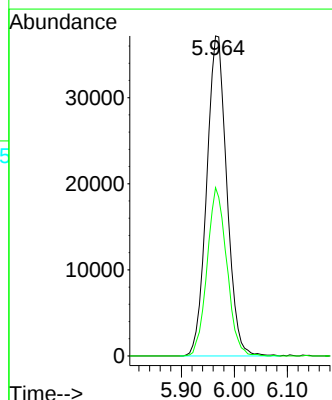
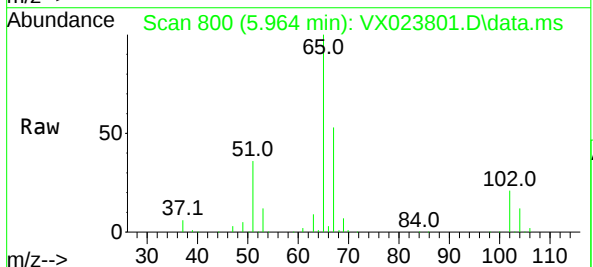
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

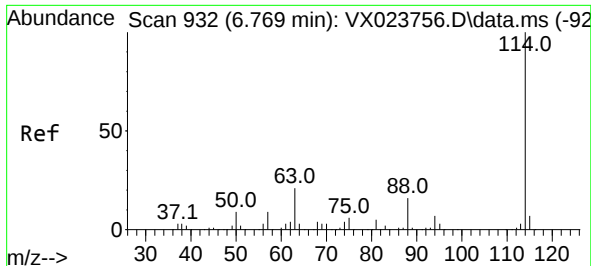
Tgt Ion: 56 Resp: 3127  
Ion Ratio Lower Upper  
56 100  
69 160.6 25.3 37.9#  
84 107.2 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 51.922 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 65 Resp: 97727  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 105.4

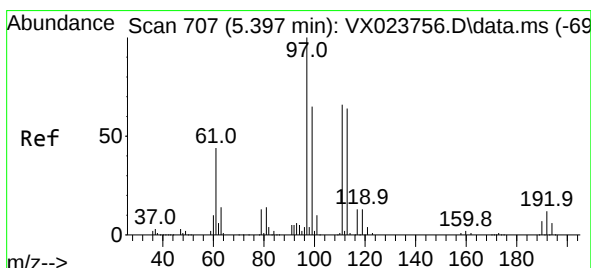
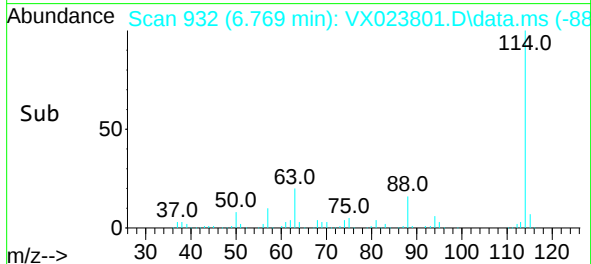
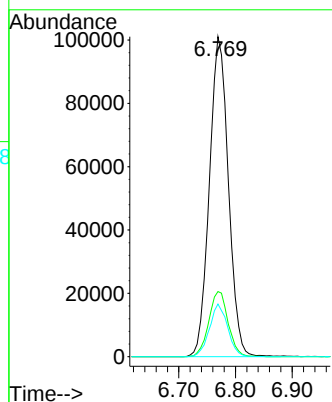
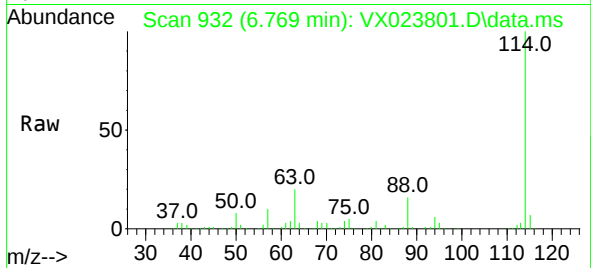




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

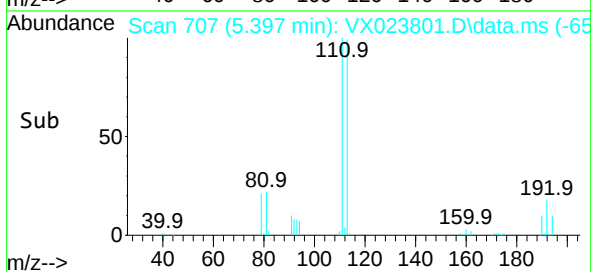
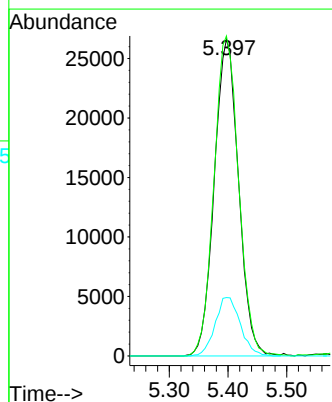
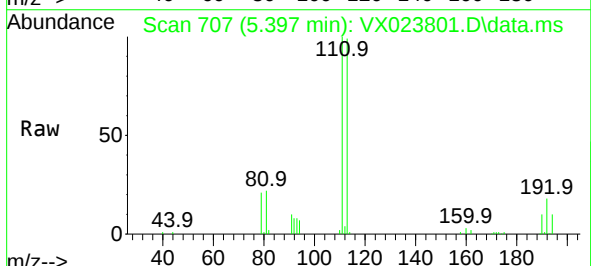
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

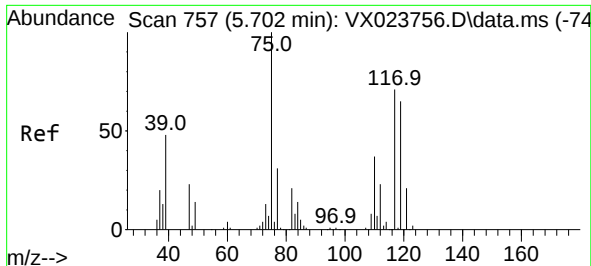
Tgt Ion:114 Resp: 235450  
Ion Ratio Lower Upper  
114 100  
63 20.4 0.0 40.8  
88 16.4 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 48.972 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion:113 Resp: 76317  
Ion Ratio Lower Upper  
113 100  
111 102.7 81.9 122.9  
192 19.2 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.718 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.134 min

Lab File: VX023801.D

Acq: 18 Aug 2021 07:00

Tgt Ion: 75 Resp: 10287

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

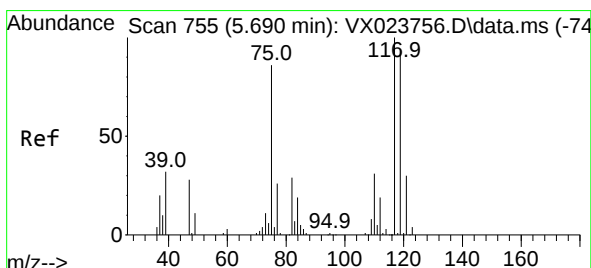
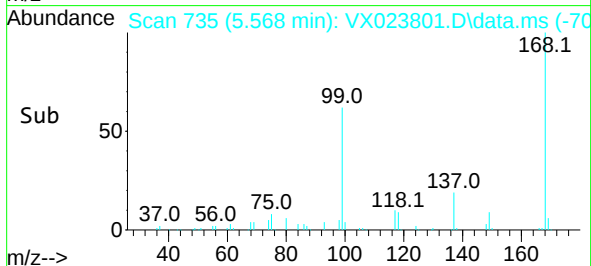
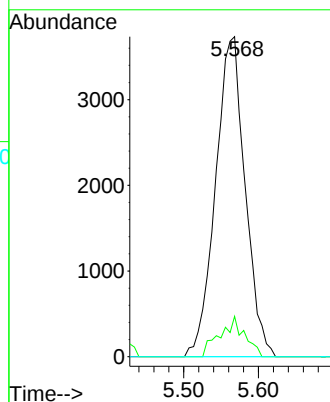
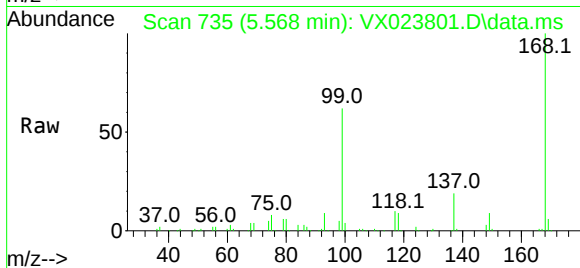
77 0.0 25.3 37.9#

Instrument :

MSVOA\_X

ClientSampled :

WC-5



#38

Carbon Tetrachloride

Concen: 5.980 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX023801.D

Acq: 18 Aug 2021 07:00

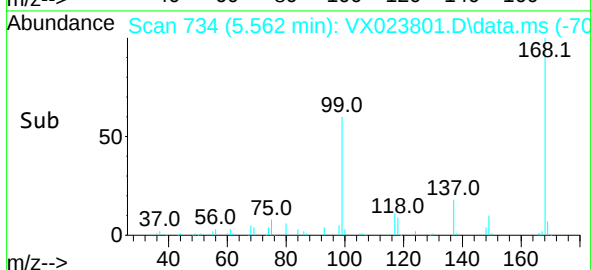
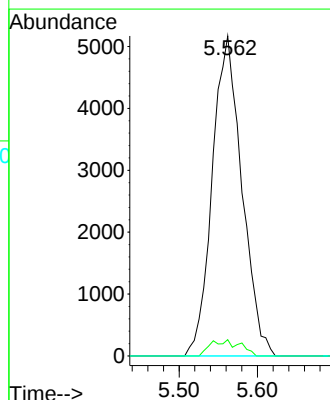
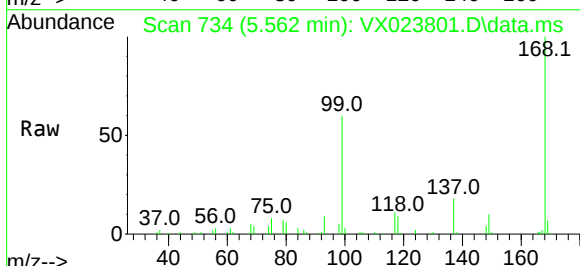
Tgt Ion: 117 Resp: 13597

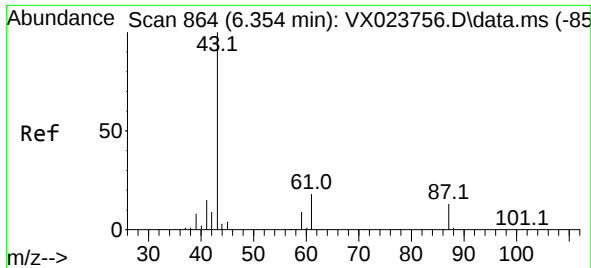
Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

121 0.0 24.8 37.2#

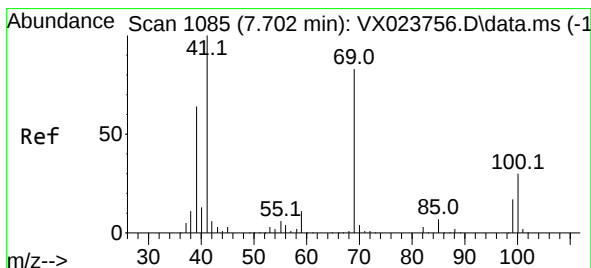
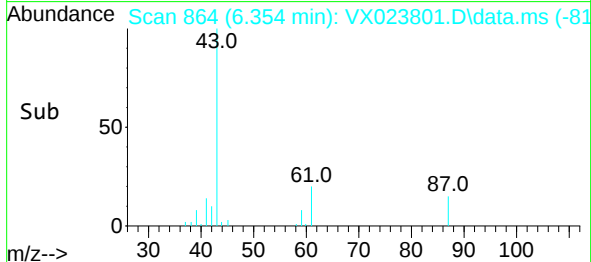
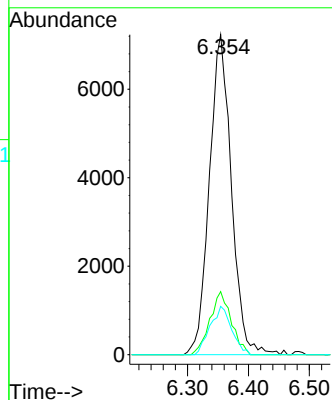
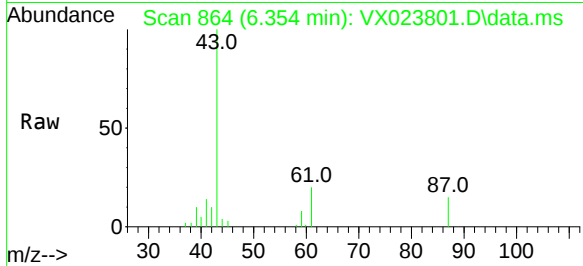




#43  
Isopropyl Acetate  
Concen: 4.330 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

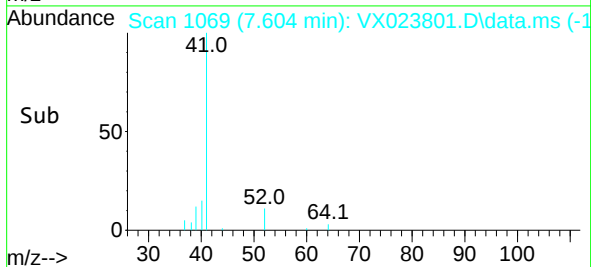
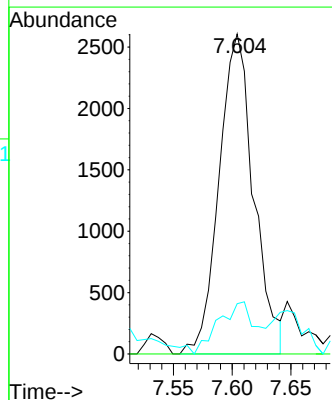
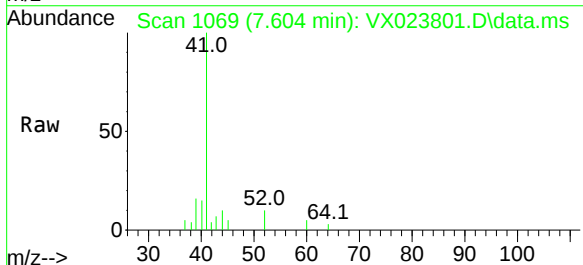
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-5

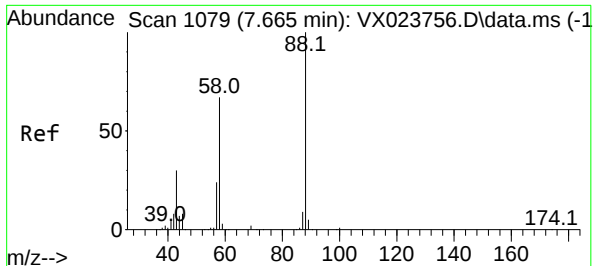
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 18153 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 19.1  | 18.2  | 27.4  |
| 87       | 14.7  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 2.616 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.098 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 5351   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 76.0  | 114.0# |
| 39       | 0.0   | 44.6  | 67.0#  |

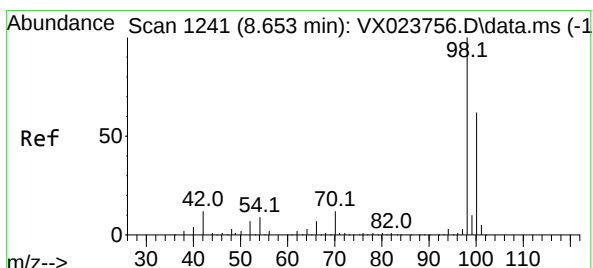
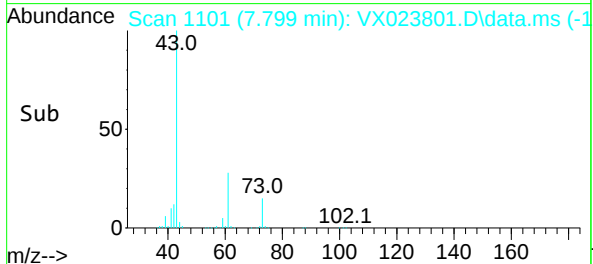
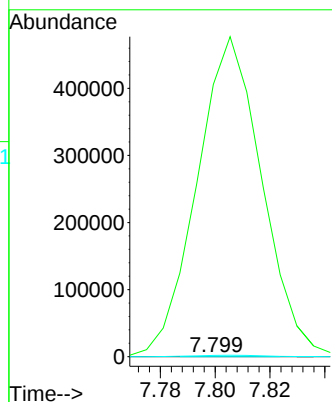
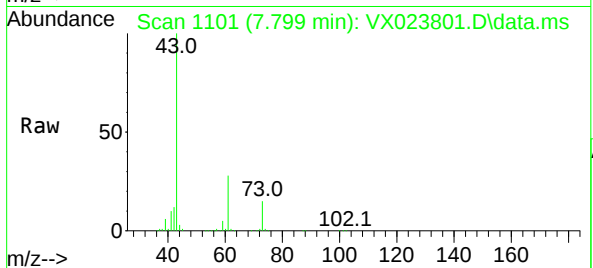




#49  
1,4-Dioxane  
Concen: 2.707 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.134 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

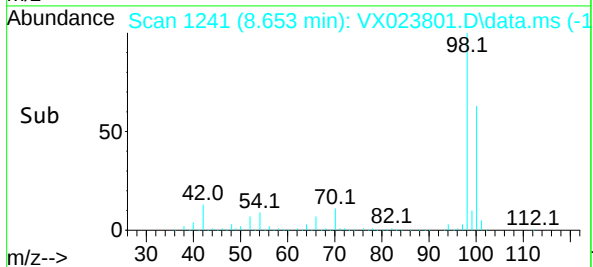
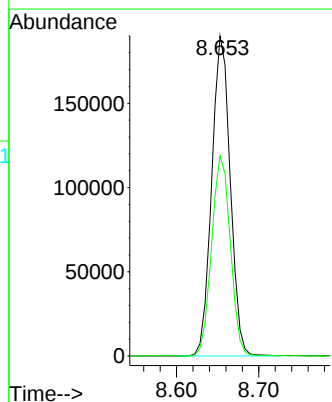
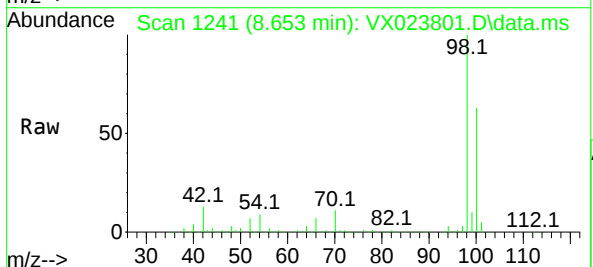
Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-5

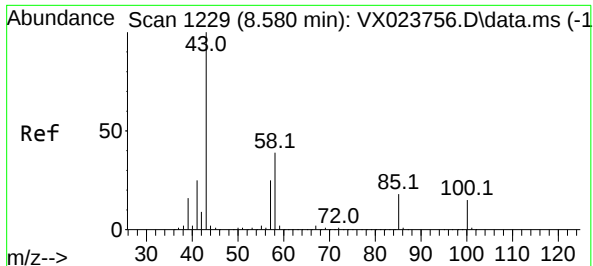
Tgt Ion: 88 Resp: 117  
Ion Ratio Lower Upper  
88 100  
43 677432.5 23.2 34.8#  
58 3359.8 55.0 82.4#



#50  
Toluene-d8  
Concen: 50.086 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 98 Resp: 297073  
Ion Ratio Lower Upper  
98 100  
100 63.3 51.9 77.9

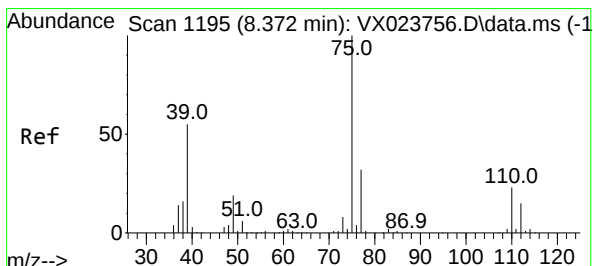
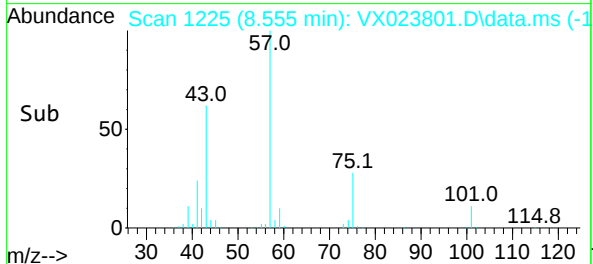
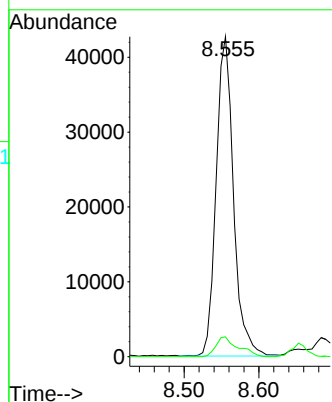
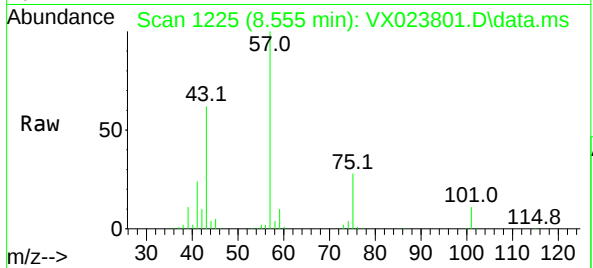




#51  
4-Methyl-2-Pentanone  
Concen: 25.344 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

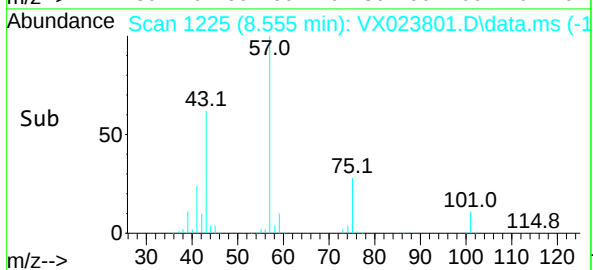
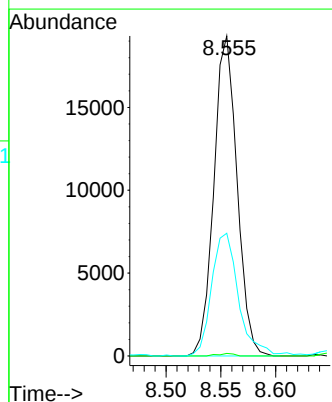
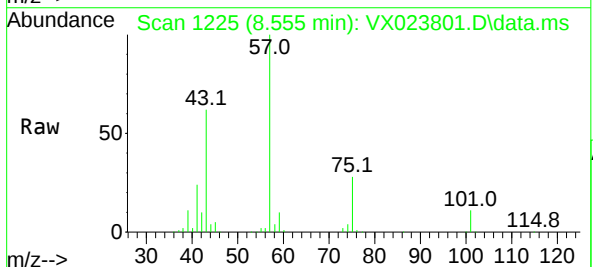
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

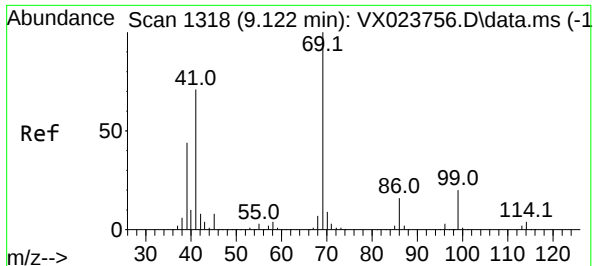
Tgt Ion: 43 Resp: 68684  
Ion Ratio Lower Upper  
43 100  
58 7.9 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 10.878 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 75 Resp: 28411  
Ion Ratio Lower Upper  
75 100  
77 0.8 25.7 38.5#  
39 38.4 35.1 52.7

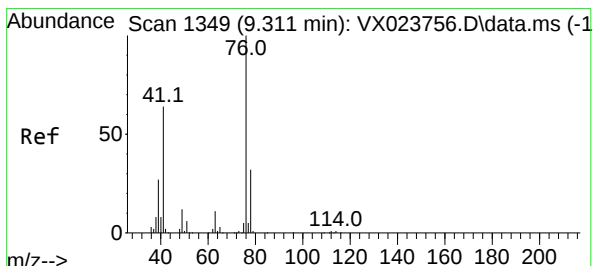
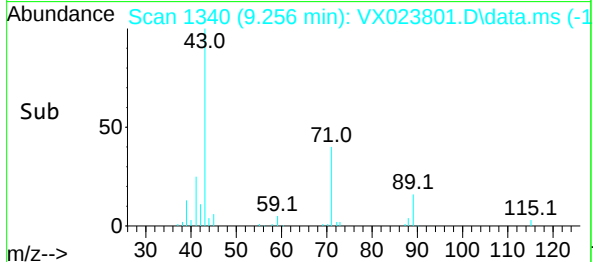
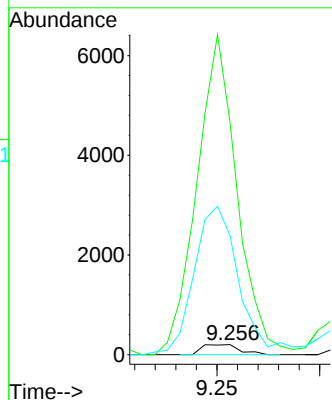
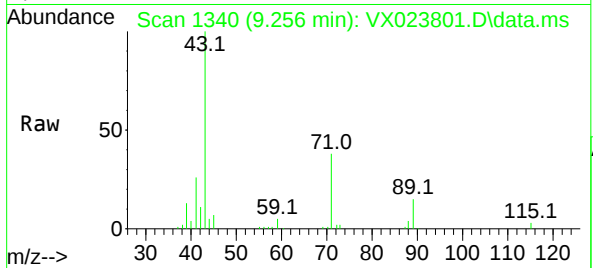




#56  
Ethyl methacrylate  
Concen: 0.846 ug/l  
RT: 9.256 min Scan# 1340  
Delta R.T. 0.134 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

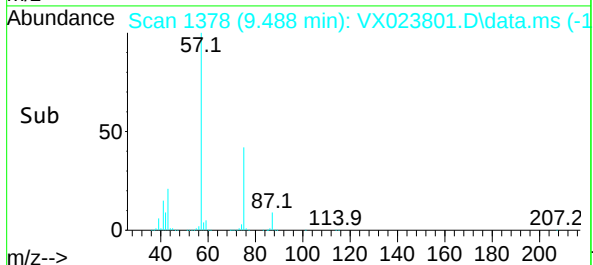
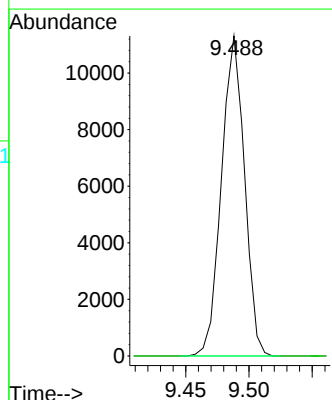
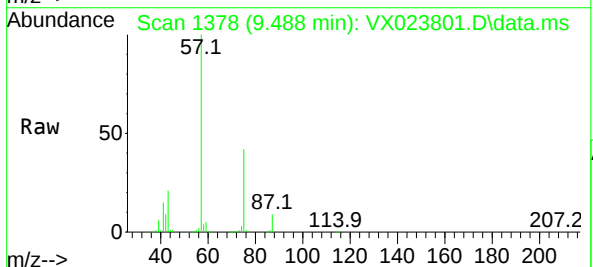
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

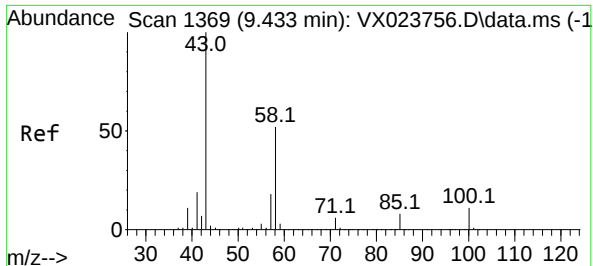
Tgt Ion: 69 Resp: 257  
Ion Ratio Lower Upper  
69 100  
41 3408.2 46.8 70.2#  
39 1752.9 24.7 37.1#



#57  
1,3-Dichloropropane  
Concen: 5.016 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 76 Resp: 14311  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.2#

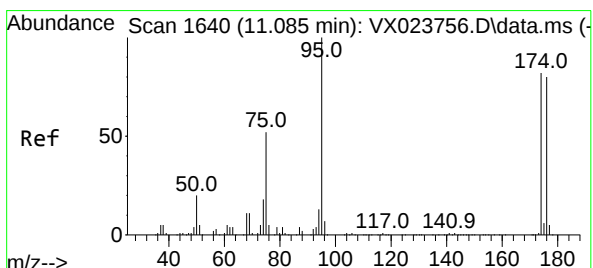
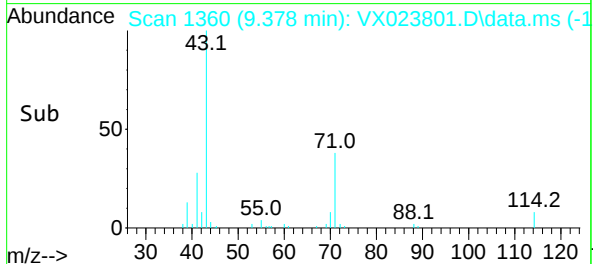
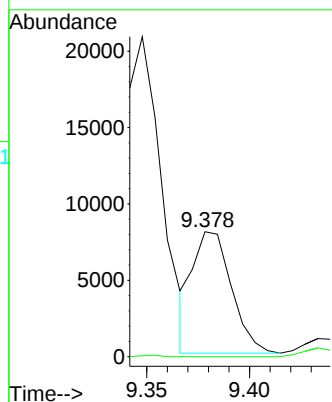
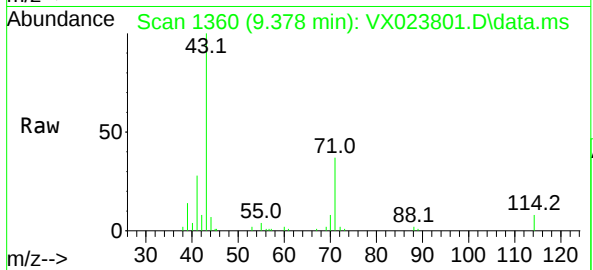




#59  
2-Hexanone  
Concen: 5.025 ug/l  
RT: 9.378 min Scan# 1360  
Delta R.T. -0.055 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

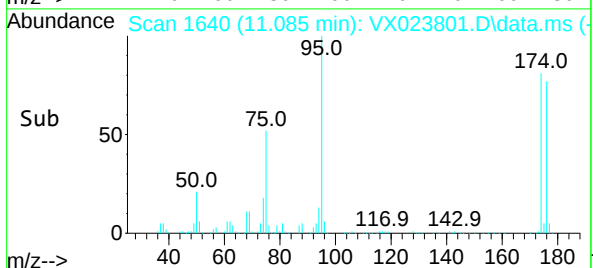
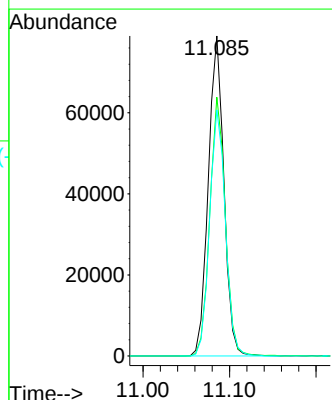
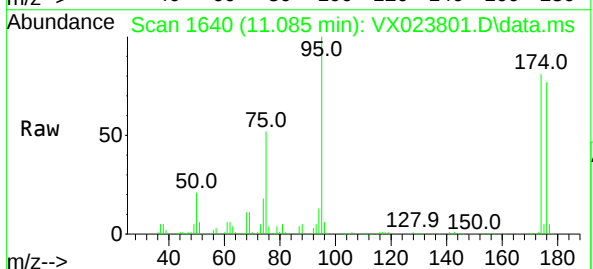
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

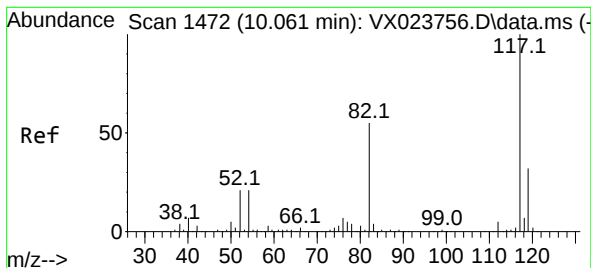
Tgt Ion: 43 Resp: 10468  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.9 92.8#



#62  
4-Bromofluorobenzene  
Concen: 45.160 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 95 Resp: 98605  
Ion Ratio Lower Upper  
95 100  
174 80.7 0.0 154.6  
176 77.8 0.0 155.8

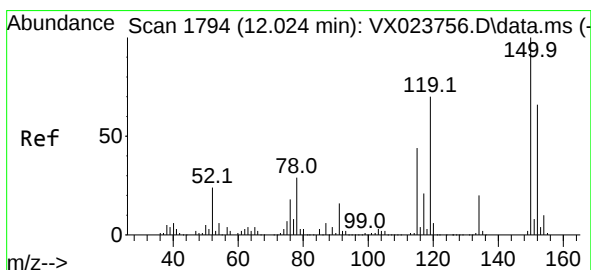
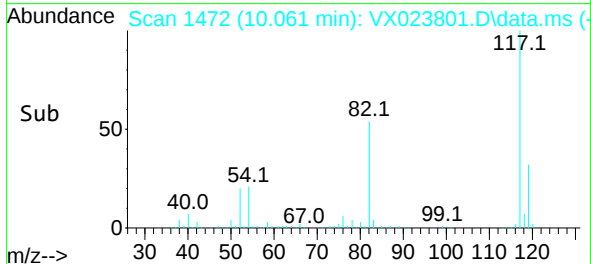
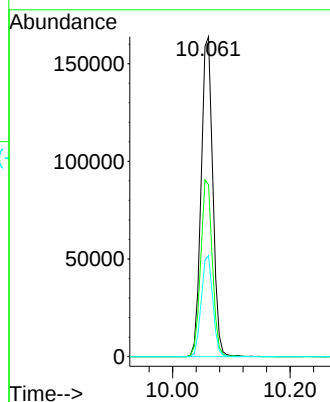
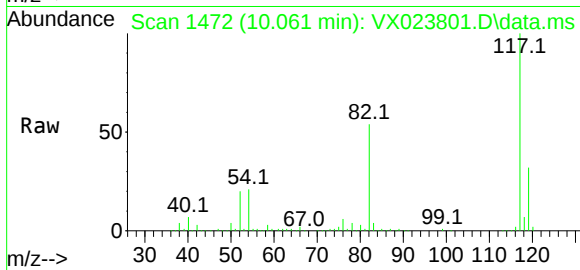




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

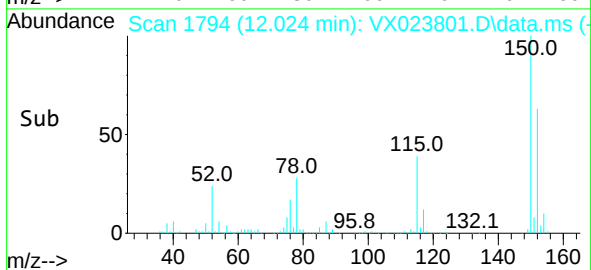
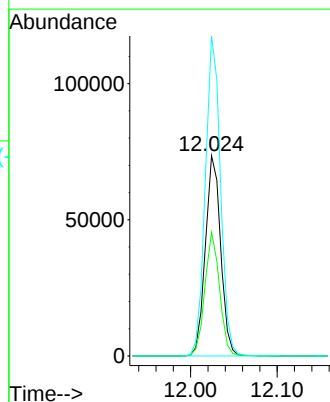
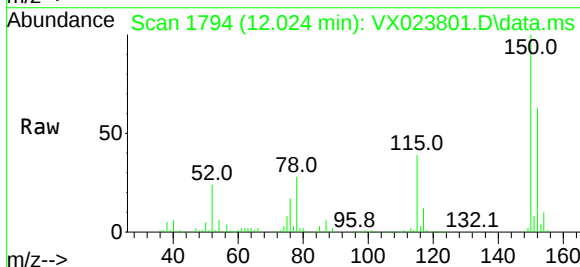
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

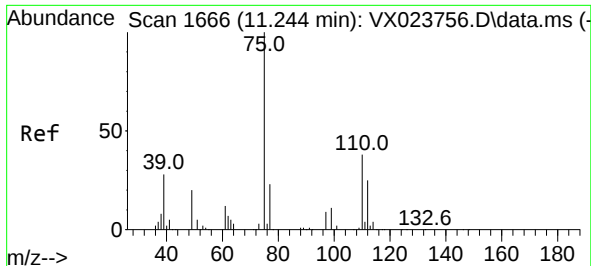
Tgt Ion:117 Resp: 226233  
Ion Ratio Lower Upper  
117 100  
82 53.8 47.4 71.2  
119 31.6 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion:152 Resp: 90255  
Ion Ratio Lower Upper  
152 100  
115 59.3 41.1 123.3  
150 158.4 0.0 349.0

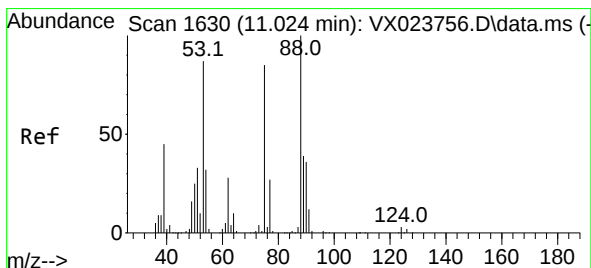
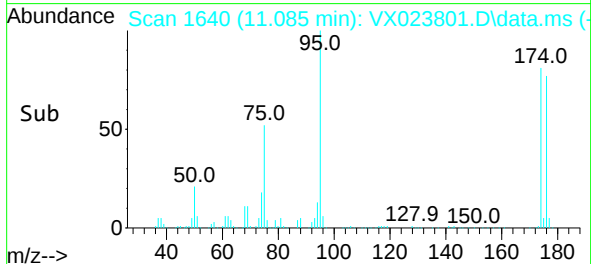
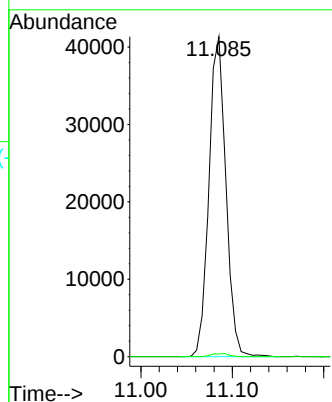
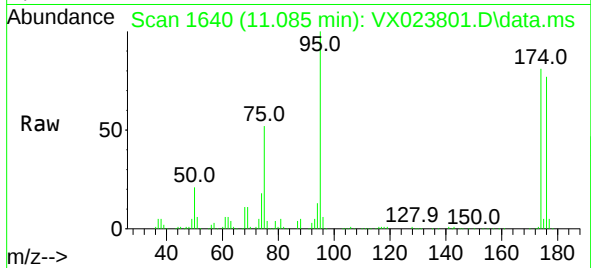




#76  
1,2,3-Trichloropropane  
Concen: 25.229 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

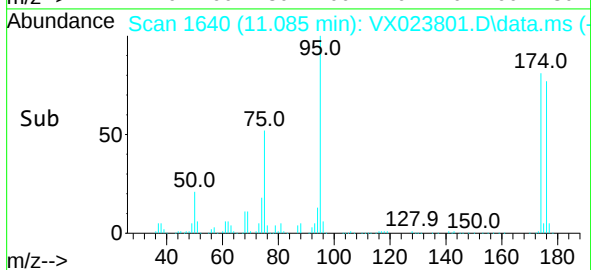
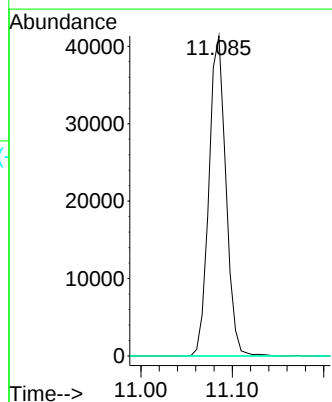
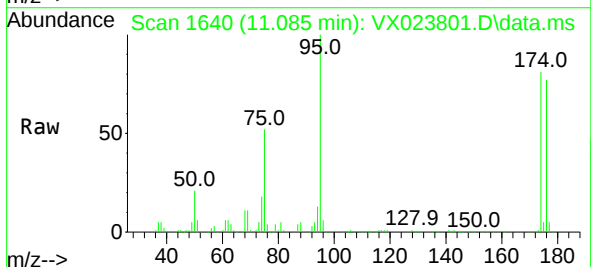
Instrument :  
MSVOA\_X  
ClientSampled :  
WC-5

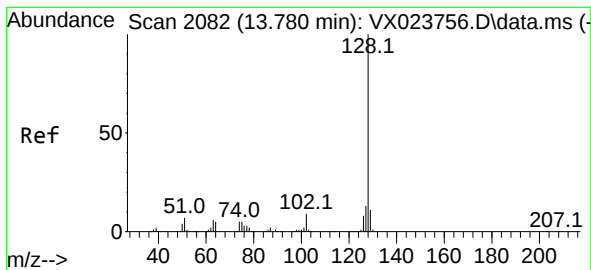
Tgt Ion: 75 Resp: 53117  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.212 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Tgt Ion: 75 Resp: 53117  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#





#95  
Naphthalene  
Concen: 1.308 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX023801.D  
Acq: 18 Aug 2021 07:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
WC-5

Tgt Ion:128 Resp: 176  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

