

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100821\  
 Data File : VX024698.D  
 Acq On : 09 Oct 2021 03:19  
 Operator : JC/MD  
 Sample : PB139768TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 11 06:39:24 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 23 18:24:34 2021  
 Response via : Initial Calibration

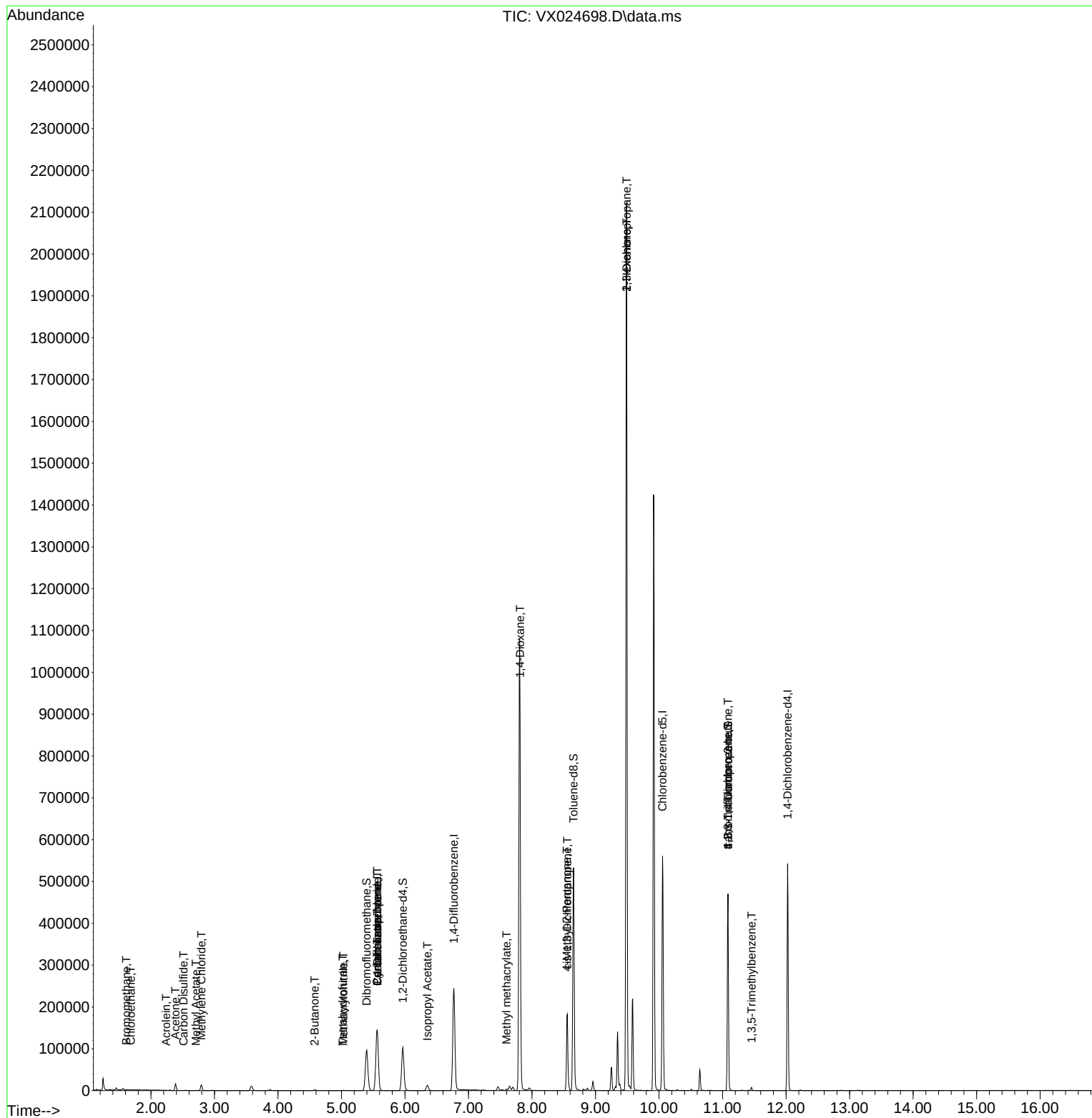
| Compound                      | R.T. QIon |                | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|-----------|----------------|----------|------------|--------|----------|
| -----                         |           |                |          |            |        |          |
| Internal Standards            |           |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.562     | 168            | 137004   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769     | 114            | 240420   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117            | 244569   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152            | 108260   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |           |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964     | 65             | 101331   | 52.479     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 78 - 117 | Recovery | = 104.960% |        |          |
| 35) Dibromofluoromethane      | 5.397     | 113            | 80593    | 50.460     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 75 - 124 | Recovery | = 100.920% |        |          |
| 50) Toluene-d8                | 8.653     | 98             | 303258   | 51.588     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 92 - 112 | Recovery | = 103.180% |        |          |
| 62) 4-Bromofluorobenzene      | 11.085    | 95             | 116206   | 50.278     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range 83 - 123 | Recovery | = 100.560% |        |          |
| Target Compounds              |           |                |          |            |        |          |
|                               |           |                |          |            |        | Qvalue   |
| 5) Bromomethane               | 1.611     | 94             | 252      | 0.275      | ug/l   | 84       |
| 6) Chloroethane               | 1.685     | 64             | 62       | 0.326      | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.953     | 59             | 699      | Below Cal  | #      | 73       |
| 13) Acrolein                  | 2.239     | 56             | 57       | 10.582     | ug/l # | 14       |
| 16) Acetone                   | 2.386     | 43             | 16487    | 10.522     | ug/l # | 87       |
| 17) Carbon Disulfide          | 2.514     | 76             | 274      | 0.312      | ug/l # | 75       |
| 18) Methyl Acetate            | 2.709     | 43             | 803      | 0.278      | ug/l # | 79       |
| 20) Methylene Chloride        | 2.794     | 84             | 5861     | 2.981      | ug/l # | 83       |
| 25) 2-Butanone                | 4.574     | 43             | 2643     | 1.988      | ug/l # | 81       |
| 29) Tetrahydrofuran           | 5.019     | 42             | 445      | 0.525      | ug/l # | 76       |
| 31) Cyclohexane               | 5.562     | 56             | 3077     | 1.331      | ug/l # | 18       |
| 36) 1,1-Dichloropropene       | 5.562     | 75             | 10626    | 4.610      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.562     | 117            | 14076    | 5.610      | ug/l # | 17       |
| 41) Methacrylonitrile         | 5.032     | 41             | 395      | 0.266      | ug/l # | 39       |
| 43) Isopropyl Acetate         | 6.354     | 43             | 17138    | 3.918      | ug/l   | 94       |
| 48) Methyl methacrylate       | 7.598     | 41             | 5070     | 2.341      | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.812     | 88             | 165      | 3.326      | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549     | 43             | 65738    | 22.762     | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.555     | 75             | 27473    | 10.202     | ug/l # | 70       |
| 57) 1,3-Dichloropropane       | 9.488     | 76             | 17125    | 5.766      | ug/l # | 42       |
| 59) 2-Hexanone                | 9.488     | 43             | 252986   | 111.231    | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085    | 75             | 62282    | 25.333     | ug/l # | 39       |
| 80) 1,3,5-Trimethylbenzene    | 11.457    | 105            | 3689     | 0.564      | ug/l   | 93       |
| 81) trans-1,4-Dichloro-2-b... | 11.085    | 75             | 62282    | 69.057     | ug/l # | 12       |
| -----                         |           |                |          |            |        |          |

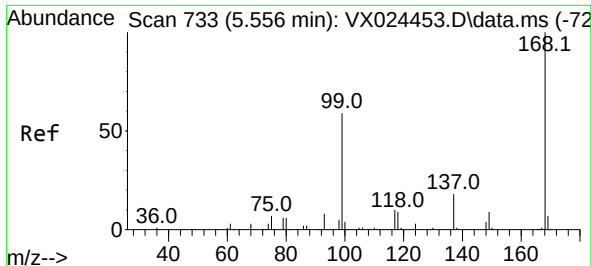
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100821\  
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Instrument :  
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ClientSampleId :

Quant Time: Oct 11 06:39:24 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X092321W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 23 18:24:34 2021  
Response via : Initial Calibration

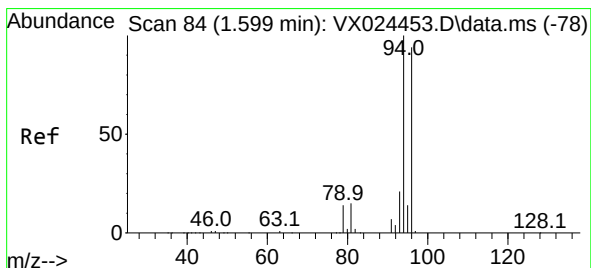
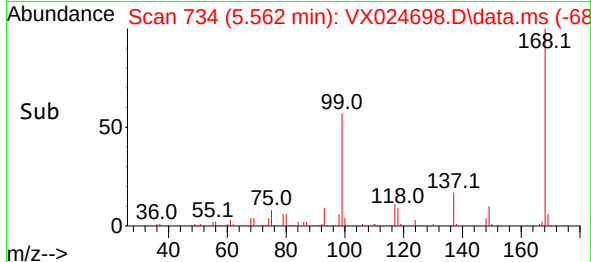
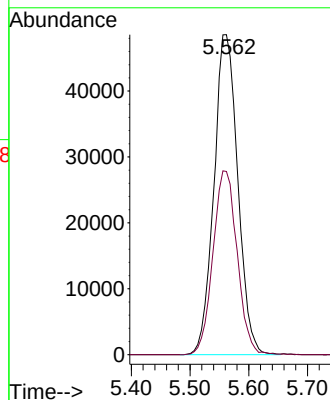
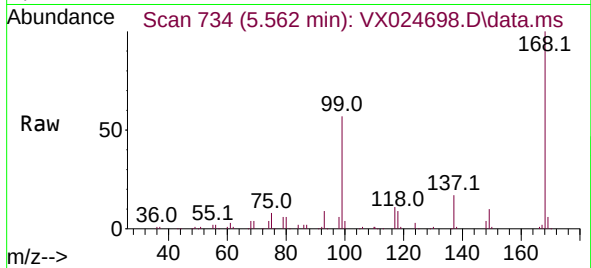




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.006 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

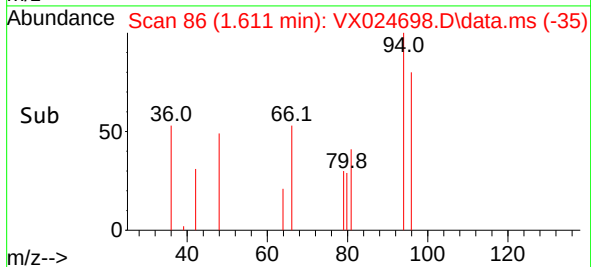
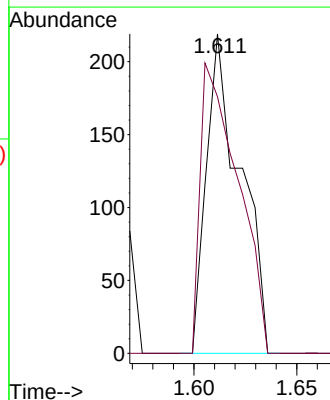
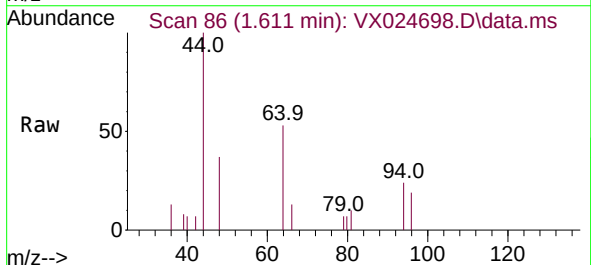
Instrument :  
MSVOA\_X  
ClientSampled :

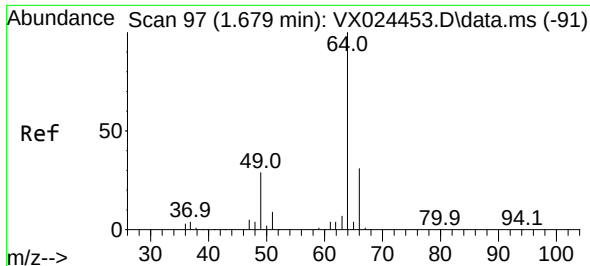
Tgt Ion:168 Resp: 137004  
Ion Ratio Lower Upper  
168 100  
99 57.2 45.8 68.6



#5  
Bromomethane  
Concen: 0.275 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 94 Resp: 252  
Ion Ratio Lower Upper  
94 100  
96 80.4 76.4 114.6

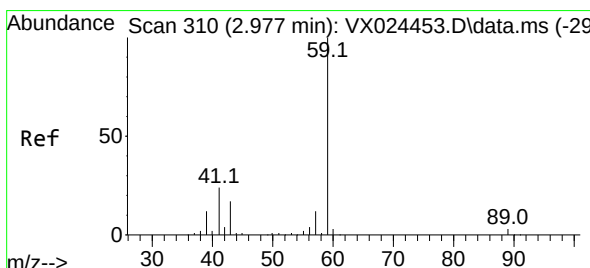
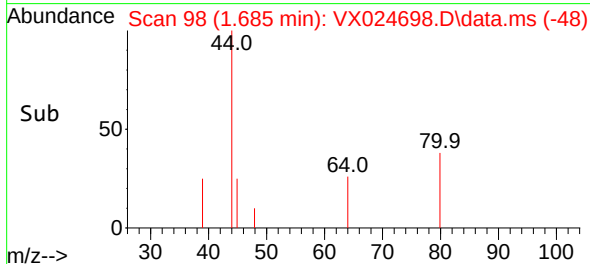
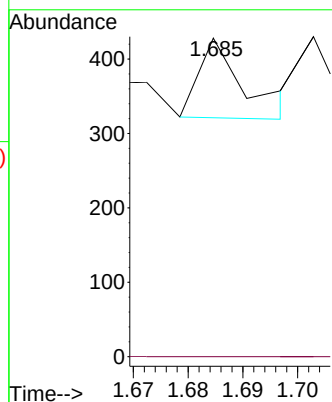
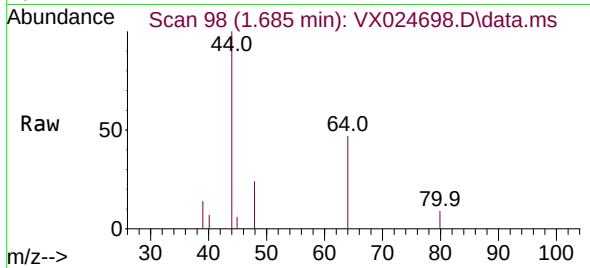




#6  
Chloroethane  
Concen: 0.326 ug/l  
RT: 1.685 min Scan# 98  
Delta R.T. 0.006 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

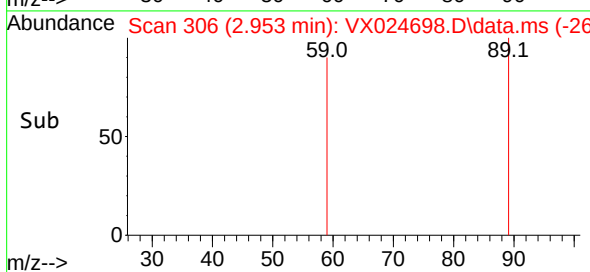
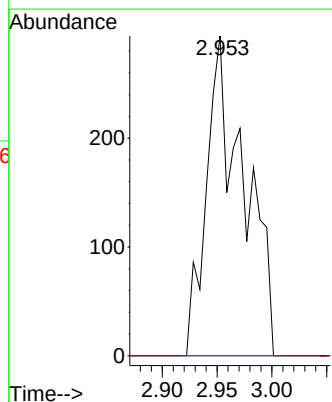
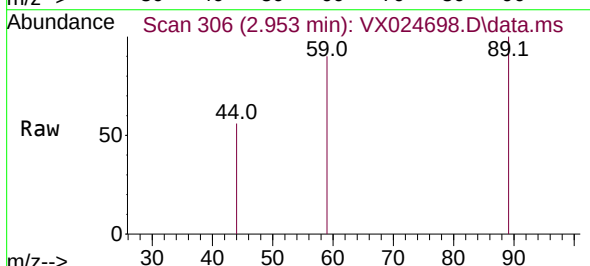
Instrument :  
MSVOA\_X  
ClientSampled :

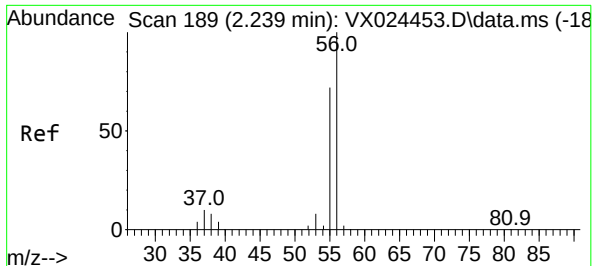
Tgt Ion: 64 Resp: 62  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.953 min Scan# 306  
Delta R.T. -0.024 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 59 Resp: 699  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

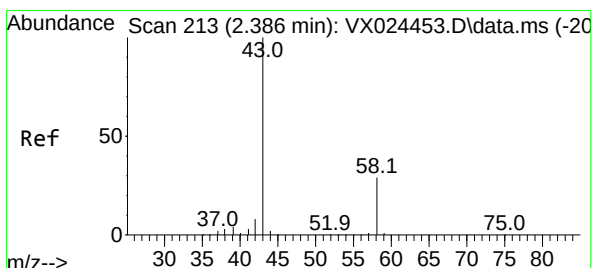
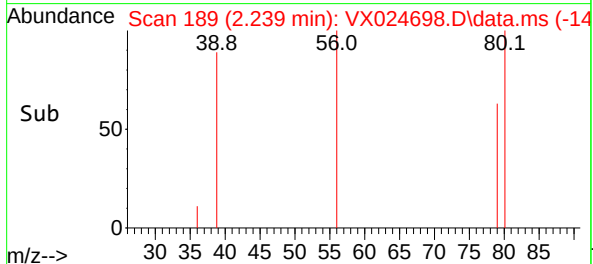
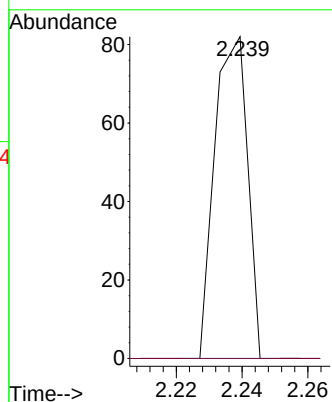
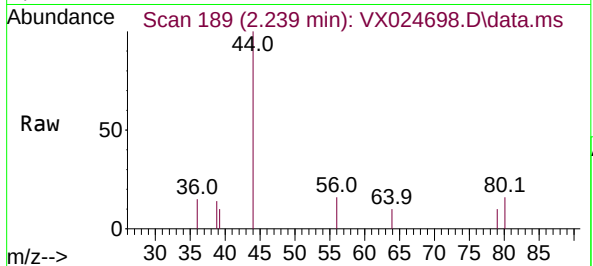




#13  
Acrolein  
Concen: 10.582 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

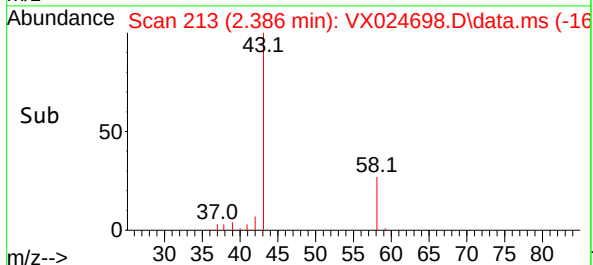
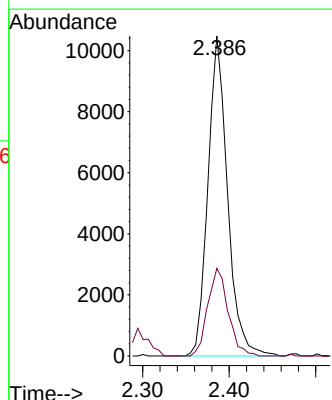
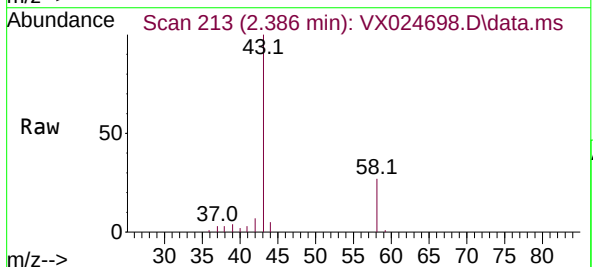
Instrument :  
MSVOA\_X  
ClientSampled :

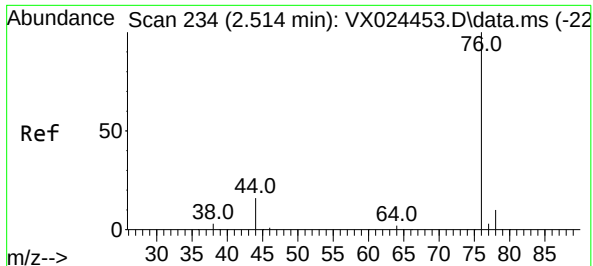
Tgt Ion: 56 Resp: 57  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: 10.522 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 43 Resp: 16487  
Ion Ratio Lower Upper  
43 100  
58 27.4 27.8 41.8#





#17

Carbon Disulfide

Concen: 0.312 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX024698.D

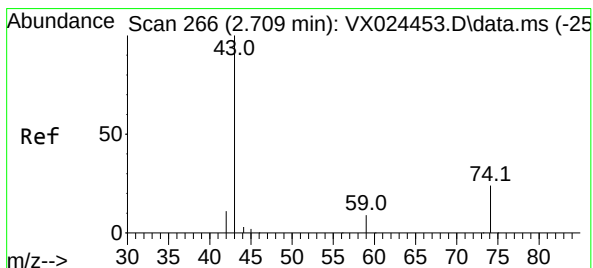
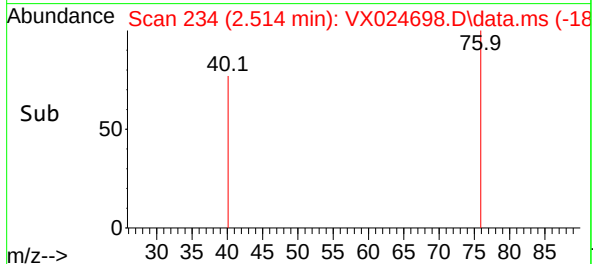
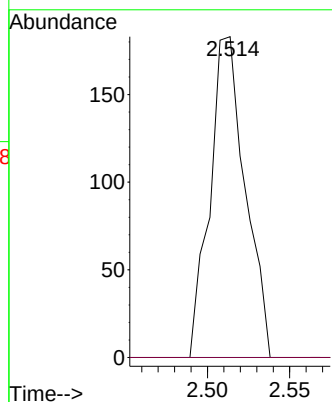
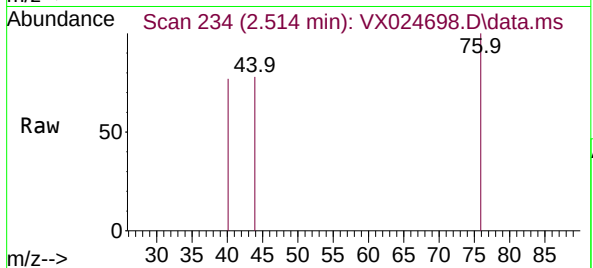
Acq: 09 Oct 2021 03:19

Tgt Ion: 76 Resp: 274

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#18

Methyl Acetate

Concen: 0.278 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.000 min

Lab File: VX024698.D

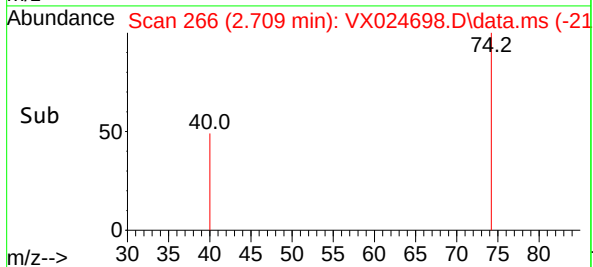
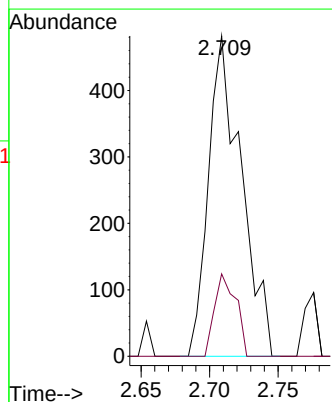
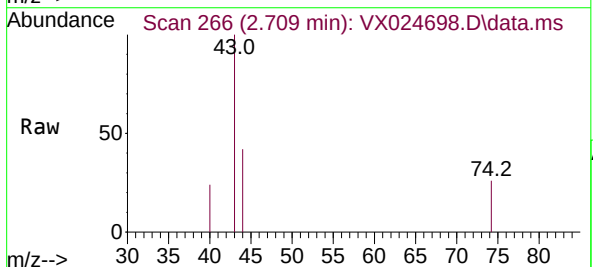
Acq: 09 Oct 2021 03:19

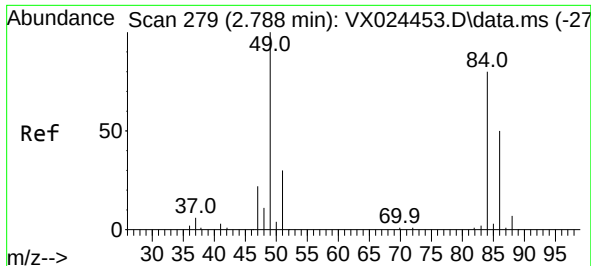
Tgt Ion: 43 Resp: 803

Ion Ratio Lower Upper

43 100

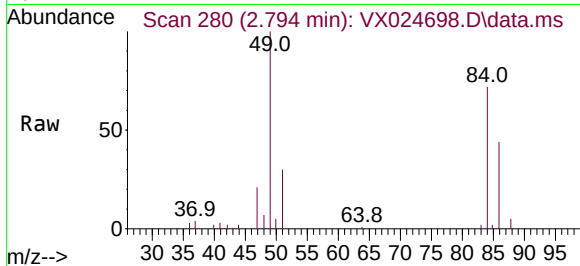
74 16.7 21.9 32.9#



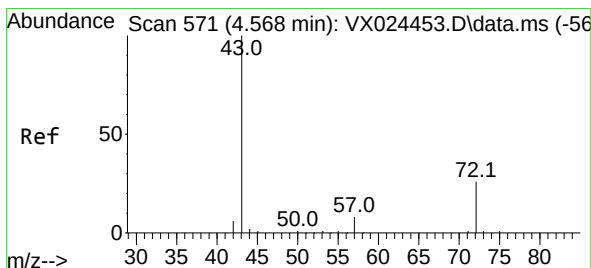
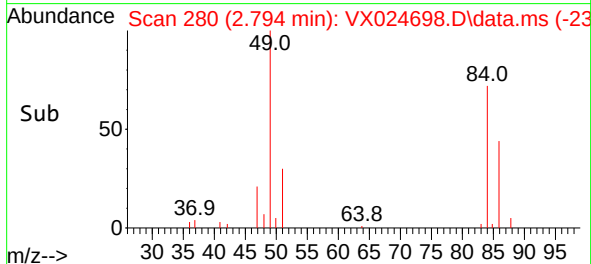
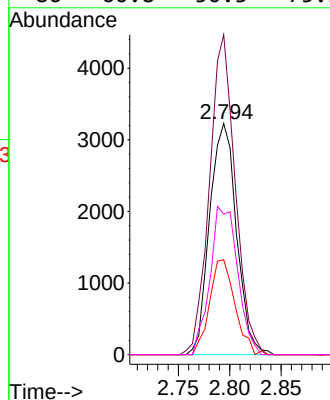


#20  
Methylene Chloride  
Concen: 2.981 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Instrument :  
MSVOA\_X  
ClientSampled :

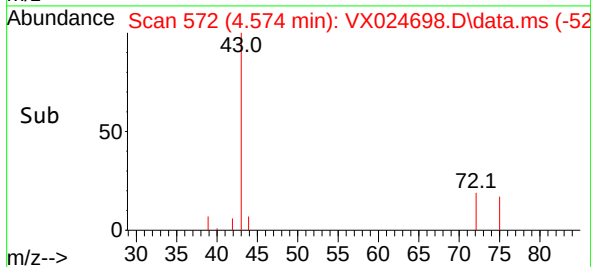
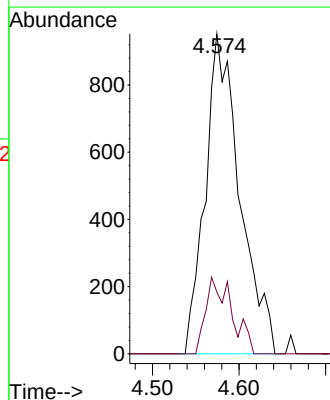
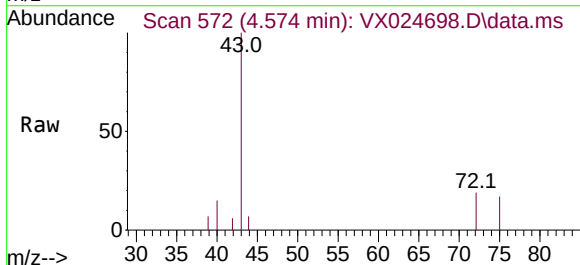


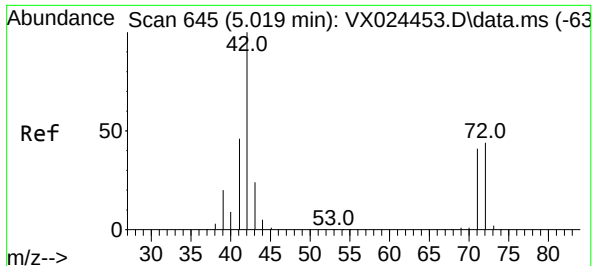
|             |                   |
|-------------|-------------------|
| Tgt Ion: 84 | Resp: 5861        |
| Ion Ratio   | Lower Upper       |
| 84          | 100               |
| 49          | 138.4 88.6 132.8# |
| 51          | 41.0 27.0 40.6#   |
| 86          | 60.8 50.3 75.5    |



#25  
2-Butanone  
Concen: 1.988 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

|             |                 |
|-------------|-----------------|
| Tgt Ion: 43 | Resp: 2643      |
| Ion Ratio   | Lower Upper     |
| 43          | 100             |
| 72          | 19.3 23.7 35.5# |





#29

Tetrahydrofuran

Concen: 0.525 ug/l

RT: 5.019 min Scan# 645

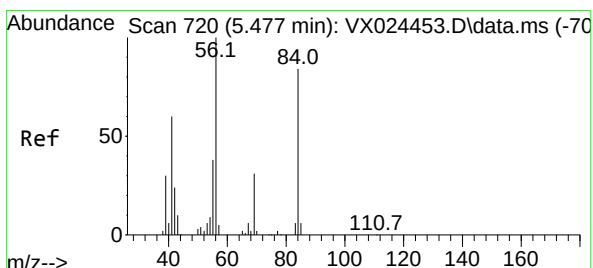
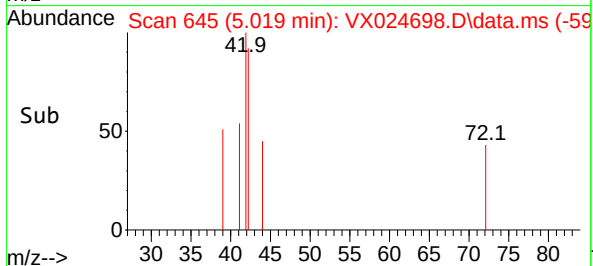
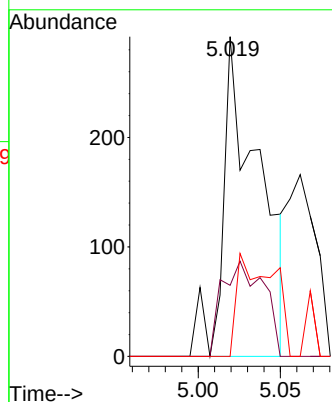
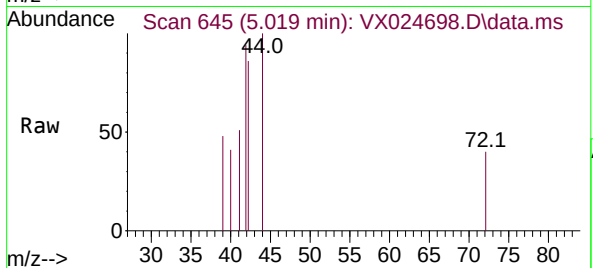
Delta R.T. 0.000 min

Lab File: VX024698.D

Acq: 09 Oct 2021 03:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 445   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 34.4  | 41.7  | 62.5# |
| 71       | 32.1  | 38.4  | 57.6# |

Instrument :  
MSVOA\_X  
ClientSampled :



#31

Cyclohexane

Concen: 1.331 ug/l

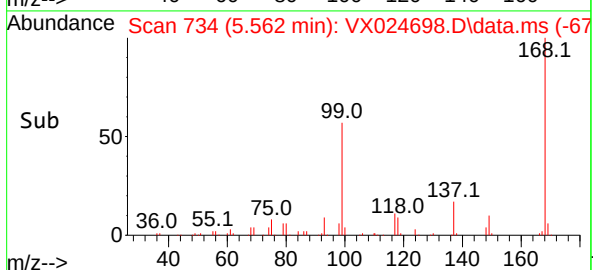
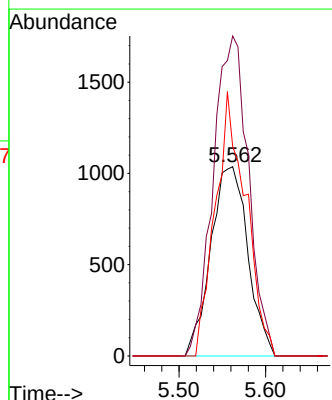
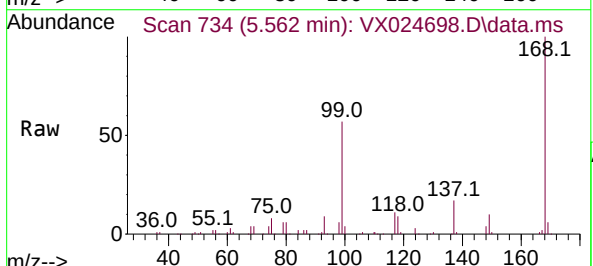
RT: 5.562 min Scan# 734

Delta R.T. 0.085 min

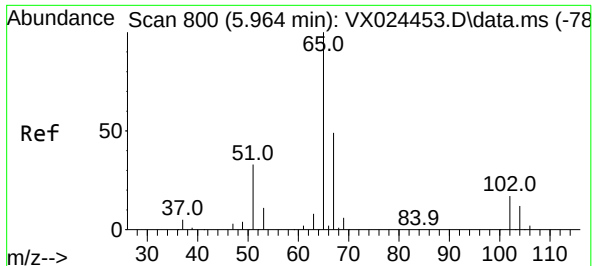
Lab File: VX024698.D

Acq: 09 Oct 2021 03:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 3077   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 169.0 | 25.3  | 37.9#  |
| 84       | 110.6 | 71.4  | 107.0# |





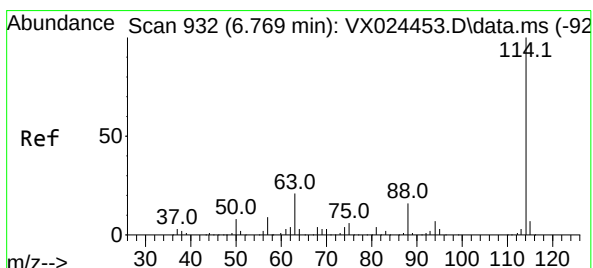
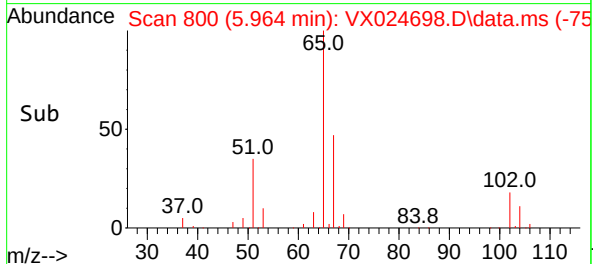
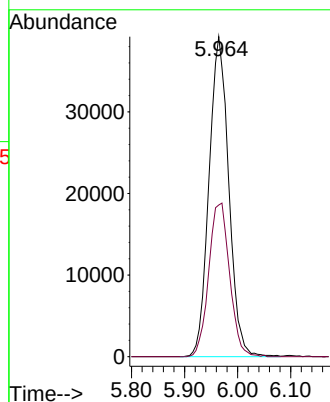
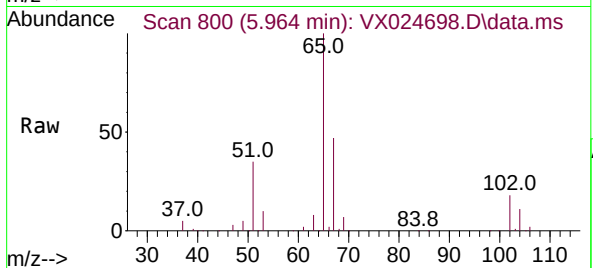


#33

1,2-Dichloroethane-d4  
Concen: 52.479 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Instrument :  
MSVOA\_X  
ClientSampled :

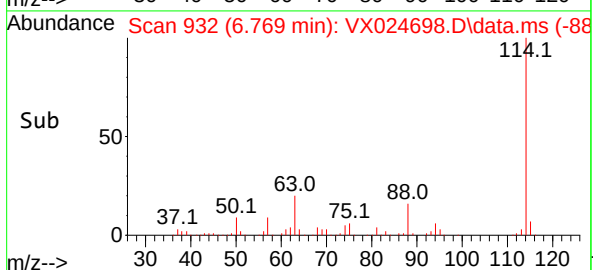
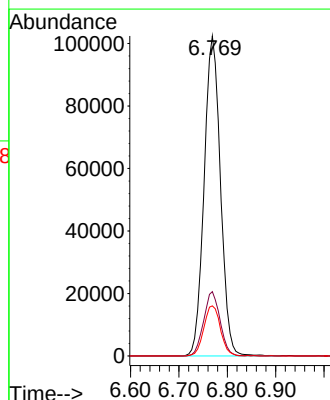
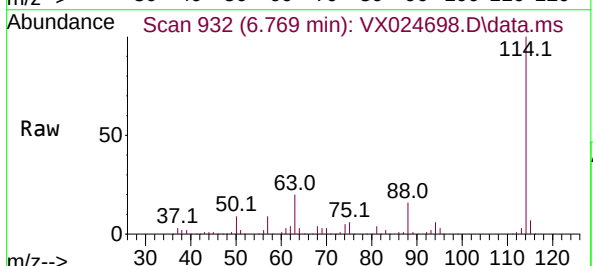
Tgt Ion: 65 Resp: 101331  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 105.4

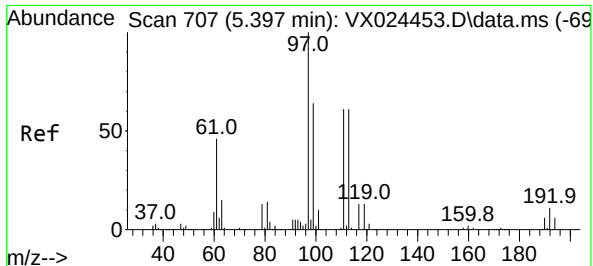


#34

1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 114 Resp: 240420  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 40.8  
88 15.7 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.460 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX024698.D

Acq: 09 Oct 2021 03:19

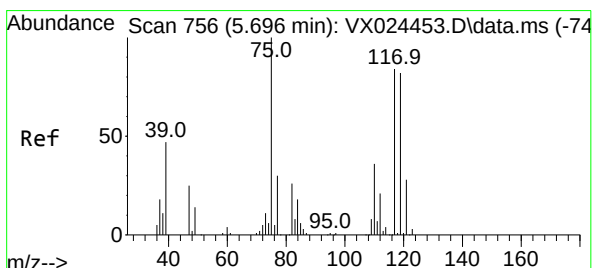
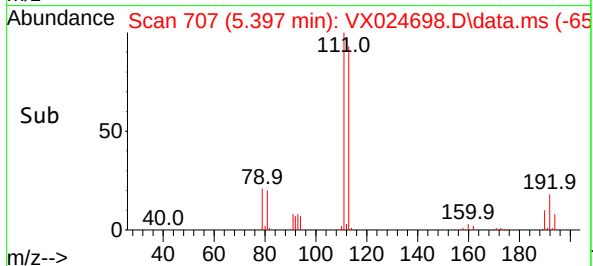
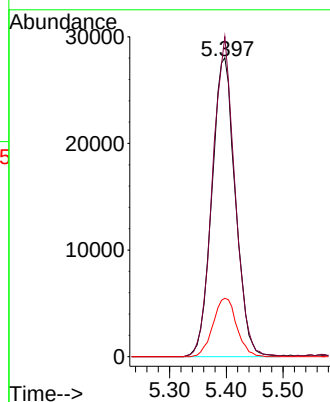
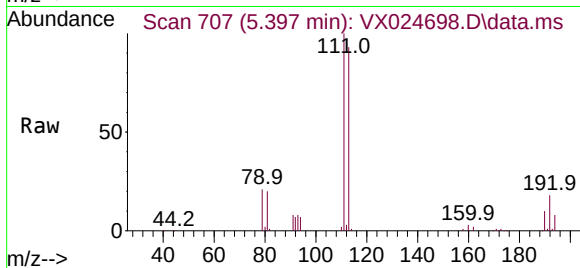
Tgt Ion:113 Resp: 80593

Ion Ratio Lower Upper

113 100

111 102.1 81.9 122.9

192 19.7 16.7 25.1



#36

1,1-Dichloropropene

Concen: 4.610 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.134 min

Lab File: VX024698.D

Acq: 09 Oct 2021 03:19

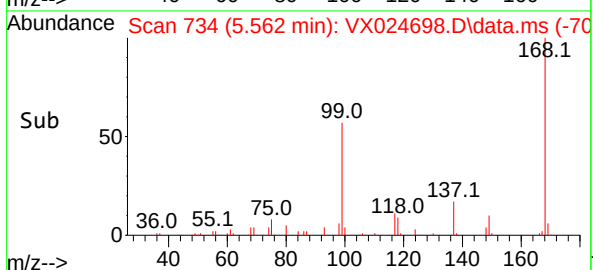
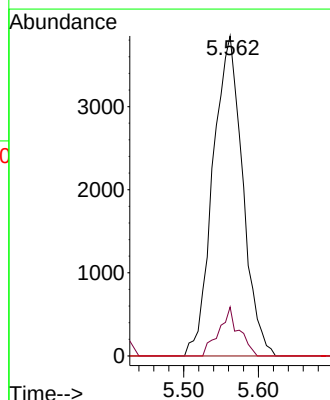
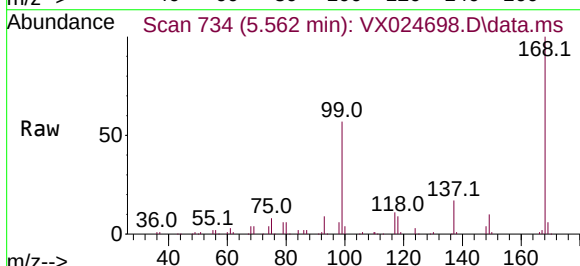
Tgt Ion: 75 Resp: 10626

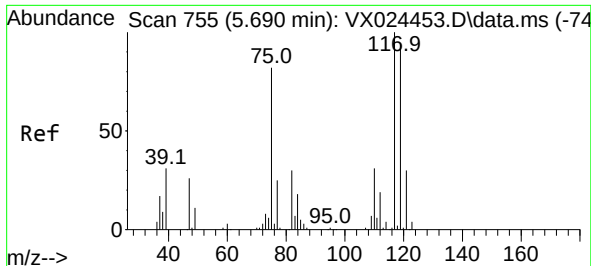
Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

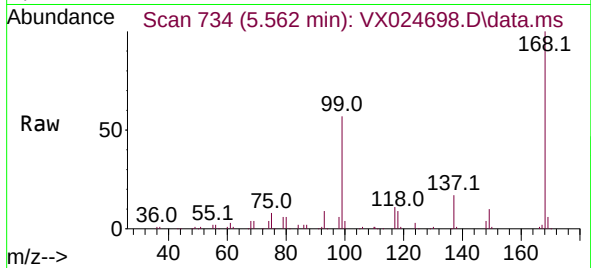
77 0.0 25.3 37.9#



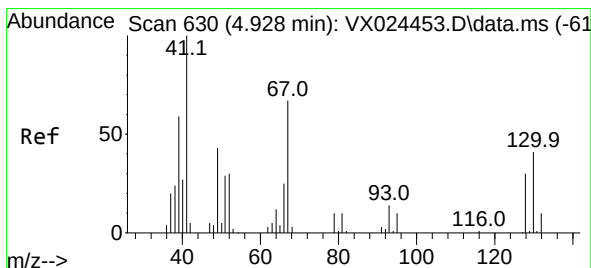
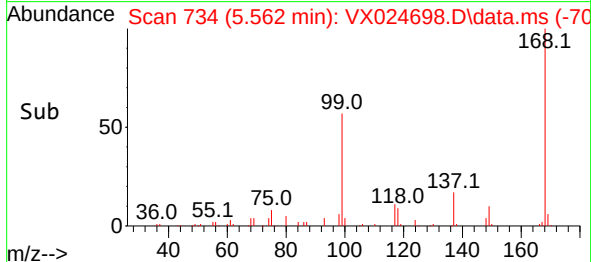
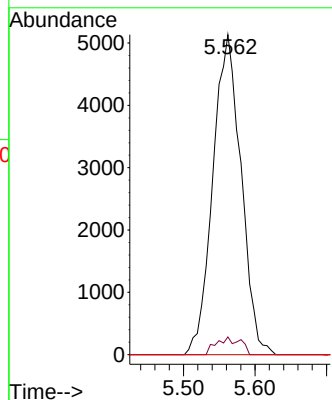


#38  
Carbon Tetrachloride  
Concen: 5.610 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Instrument :  
MSVOA\_X  
ClientSampled :

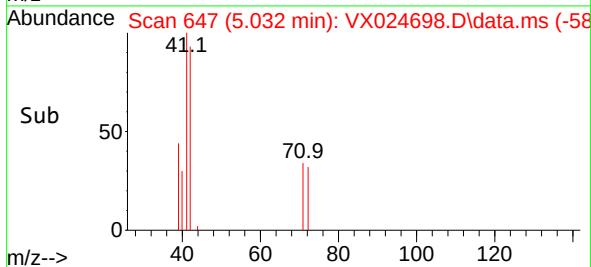
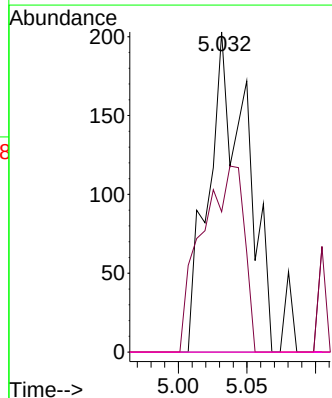
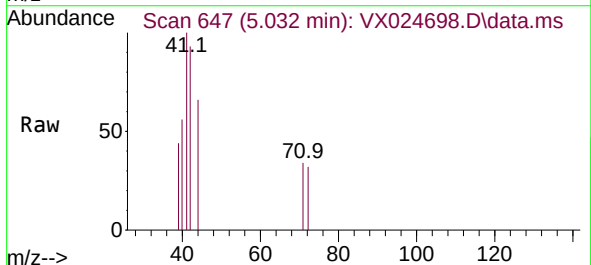


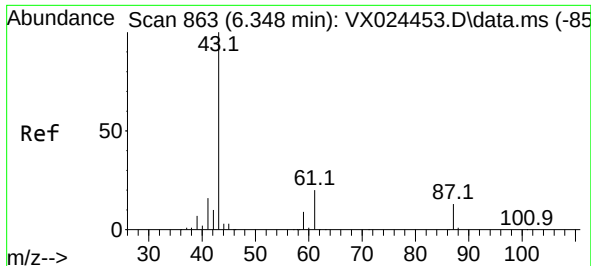
Tgt Ion:117 Resp: 14076  
Ion Ratio Lower Upper  
117 100  
119 5.5 76.2 114.2#  
121 0.0 24.8 37.2#



#41  
Methacrylonitrile  
Concen: 0.266 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.104 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 41 Resp: 395  
Ion Ratio Lower Upper  
41 100  
39 64.3 42.5 63.7#  
67 0.0 65.0 97.6#  
52 0.0 25.3 37.9#

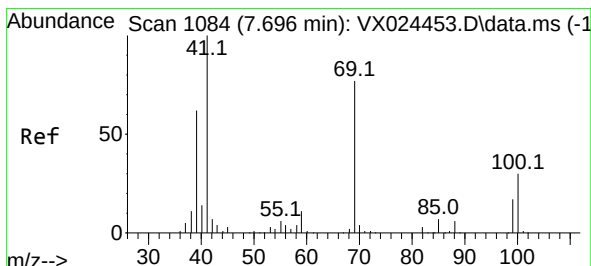
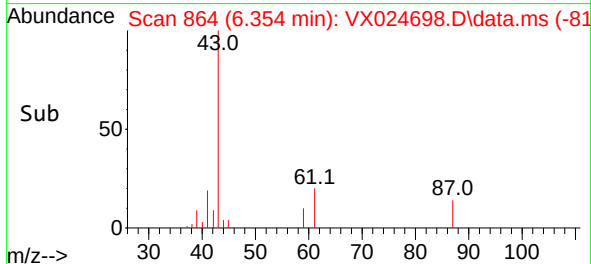
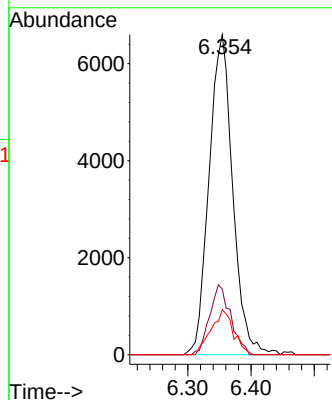
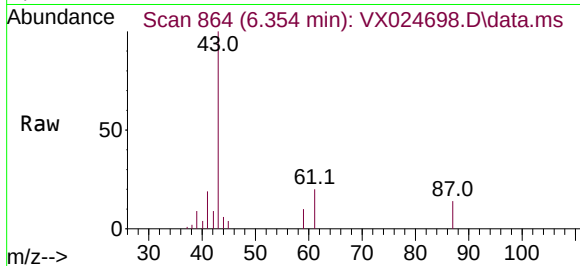




#43  
Isopropyl Acetate  
Concen: 3.918 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.006 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

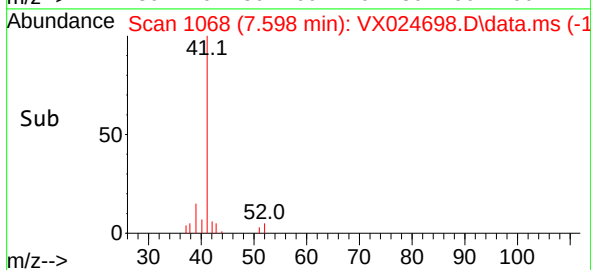
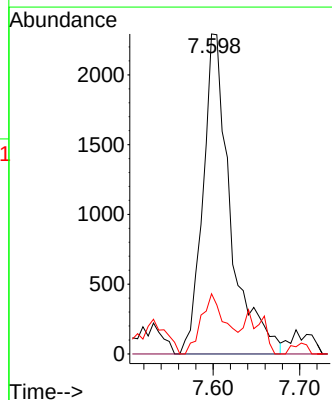
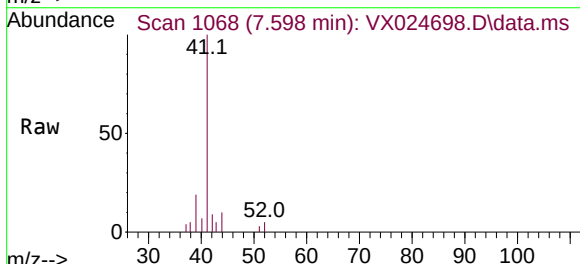
Instrument :  
MSVOA\_X  
ClientSampled :

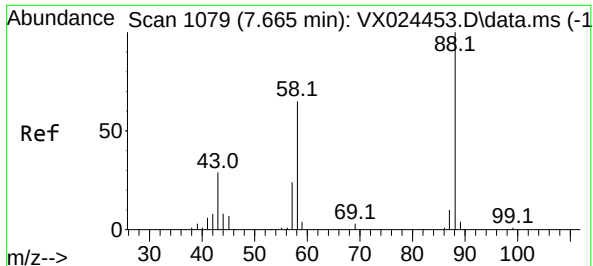
Tgt Ion: 43 Resp: 17138  
Ion Ratio Lower Upper  
43 100  
61 19.4 18.2 27.4  
87 13.2 12.5 18.7



#48  
Methyl methacrylate  
Concen: 2.341 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.098 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 41 Resp: 5070  
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: 3.326 ug/l

RT: 7.812 min Scan# 1103

Delta R.T. 0.147 min

Lab File: VX024698.D

Acq: 09 Oct 2021 03:19

Tgt Ion: 88 Resp: 165

Ion Ratio Lower Upper

88 100

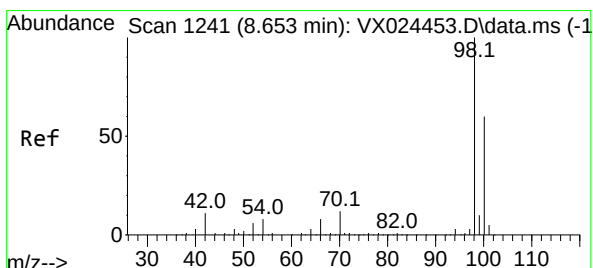
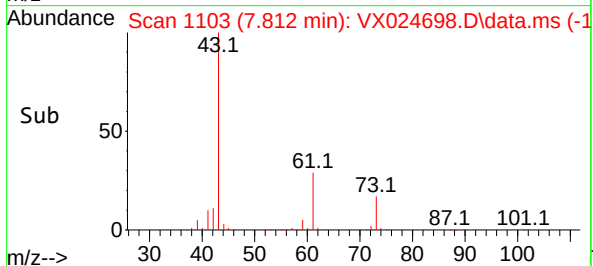
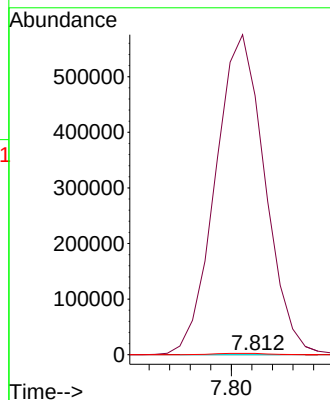
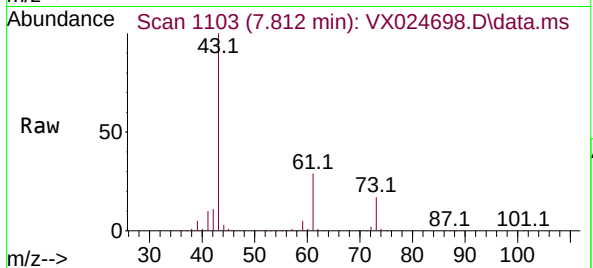
43 588033.3 23.2 34.8#

58 2600.6 55.0 82.4#

Instrument :

MSVOA\_X

ClientSampled :



#50

Toluene-d8

Concen: 51.588 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX024698.D

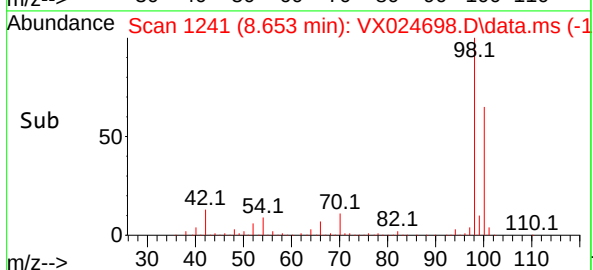
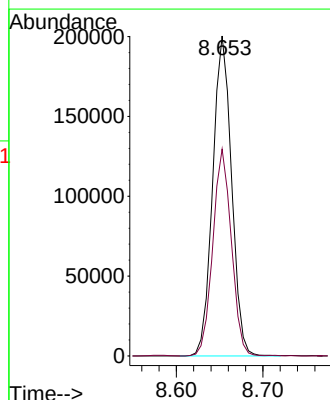
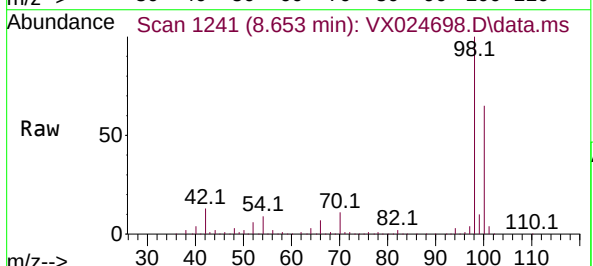
Acq: 09 Oct 2021 03:19

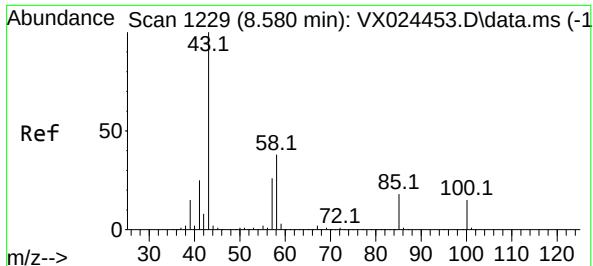
Tgt Ion: 98 Resp: 303258

Ion Ratio Lower Upper

98 100

100 63.5 51.9 77.9

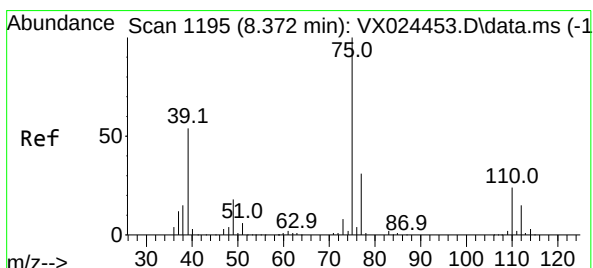
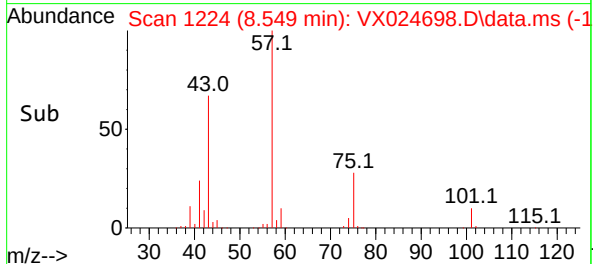
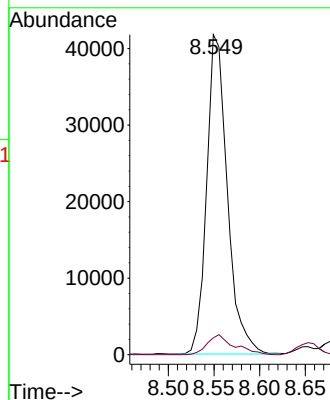
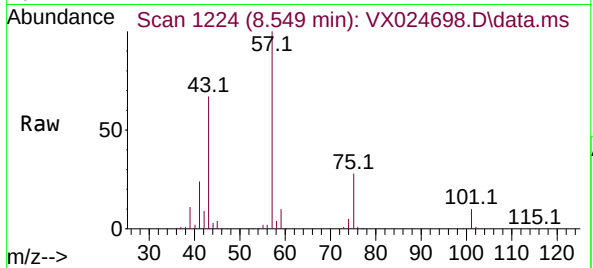




#51  
4-Methyl-2-Pentanone  
Concen: 22.762 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.031 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

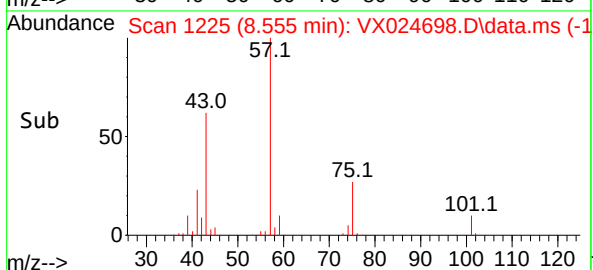
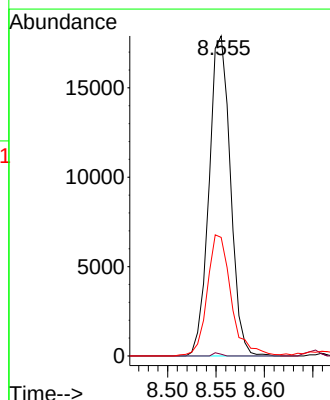
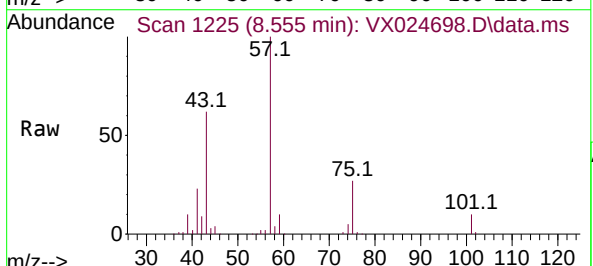
Instrument :  
MSVOA\_X  
ClientSampled :

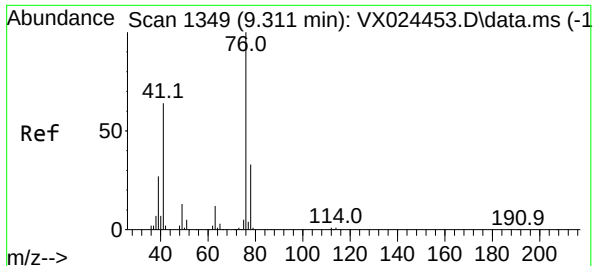
Tgt Ion: 43 Resp: 65738  
Ion Ratio Lower Upper  
43 100  
58 8.0 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 10.202 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 75 Resp: 27473  
Ion Ratio Lower Upper  
75 100  
77 0.6 25.7 38.5#  
39 36.7 35.1 52.7



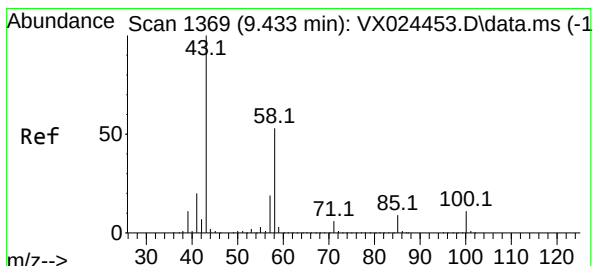
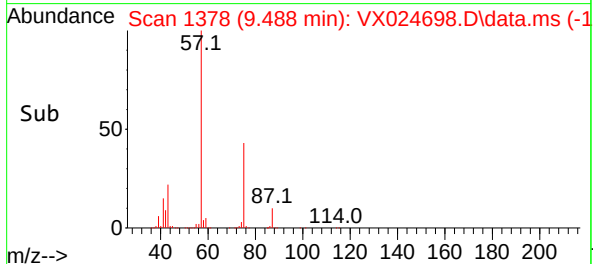
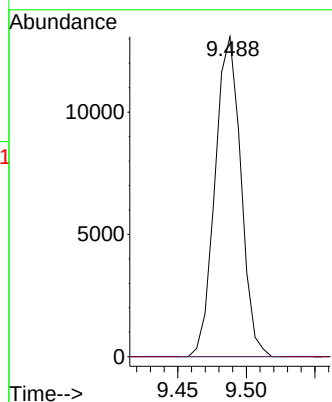
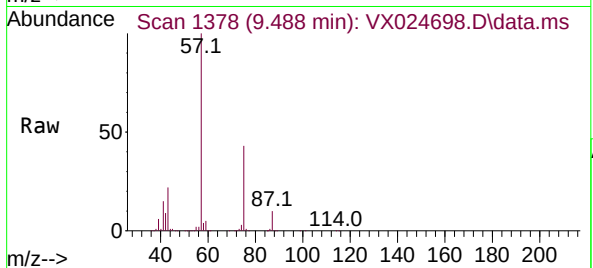


#57

1,3-Dichloropropane  
Concen: 5.766 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Instrument :  
MSVOA\_X  
ClientSampled :

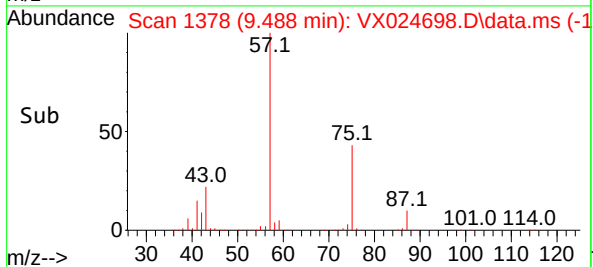
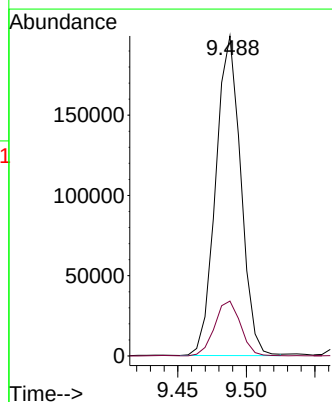
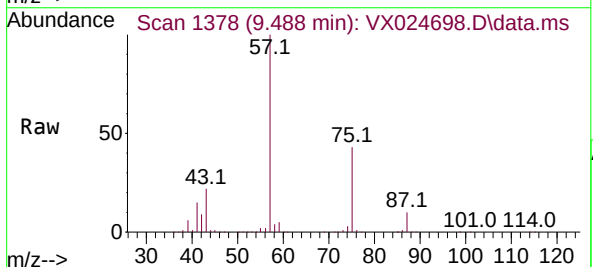
Tgt Ion: 76 Resp: 17125  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.2#

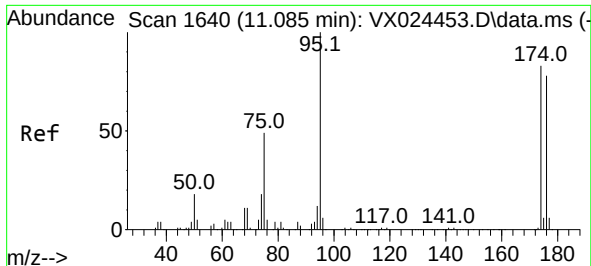


#59

2-Hexanone  
Concen: 111.231 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 43 Resp: 252986  
Ion Ratio Lower Upper  
43 100  
58 17.8 30.9 92.8#

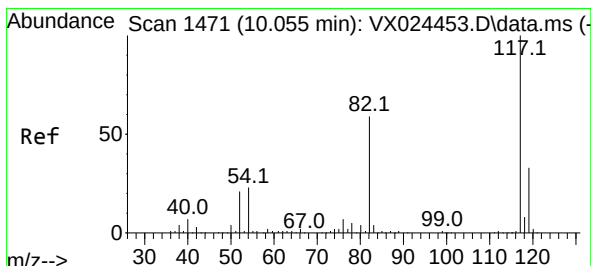
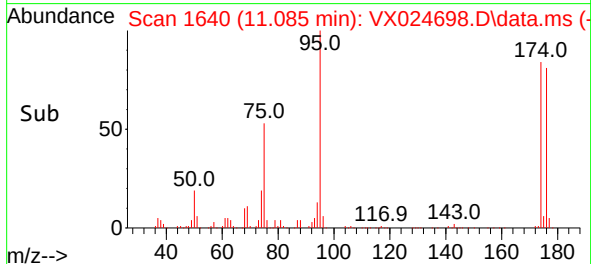
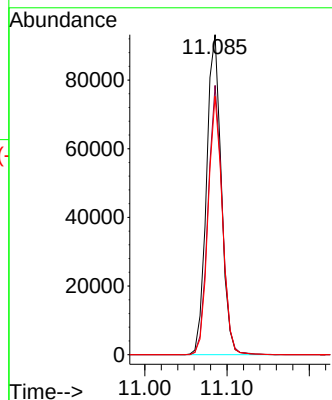
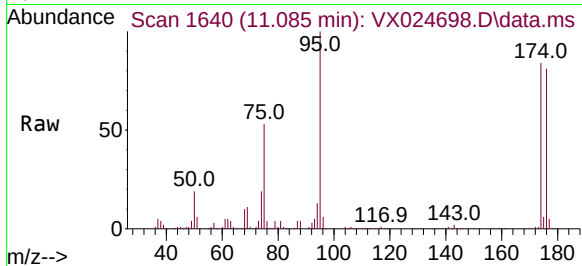




#62  
4-Bromofluorobenzene  
Concen: 50.278 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

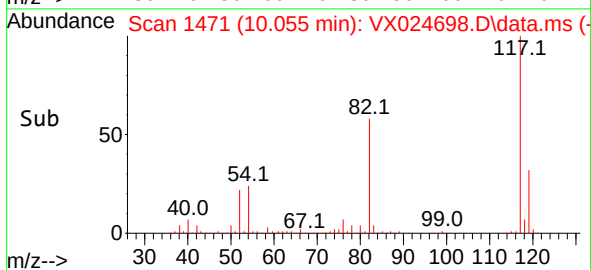
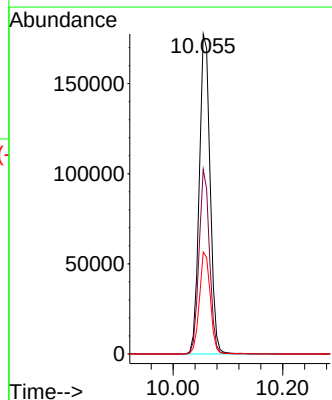
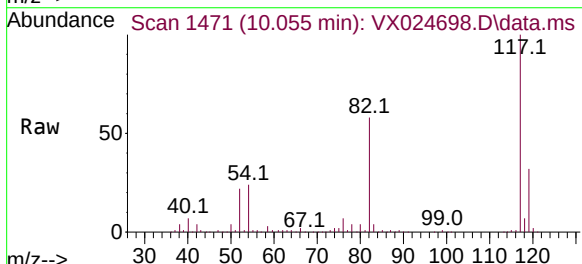
Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion: 95 Resp: 116206  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 154.6  
176 78.0 0.0 155.8

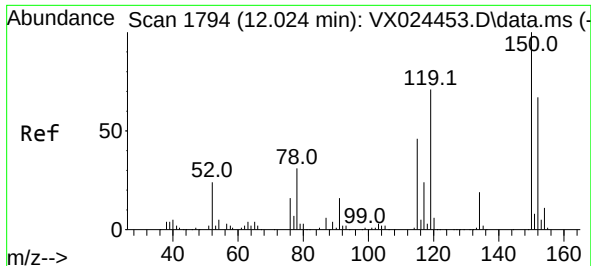


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 117 Resp: 244569  
Ion Ratio Lower Upper  
117 100  
82 57.7 47.4 71.2  
119 31.8 26.6 39.8



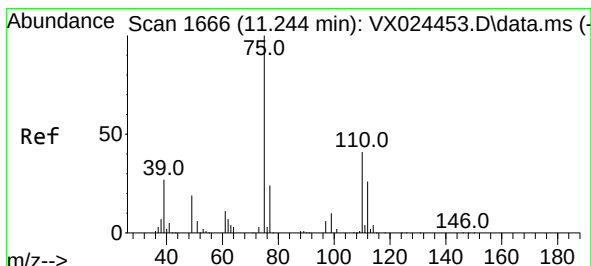
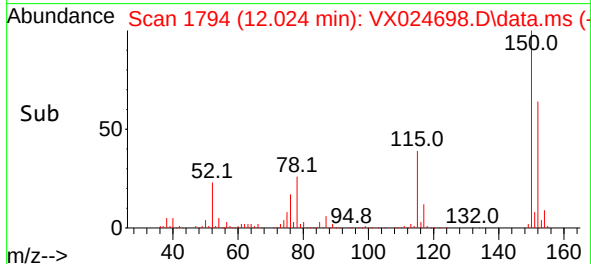
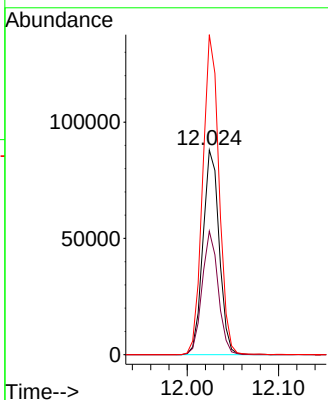
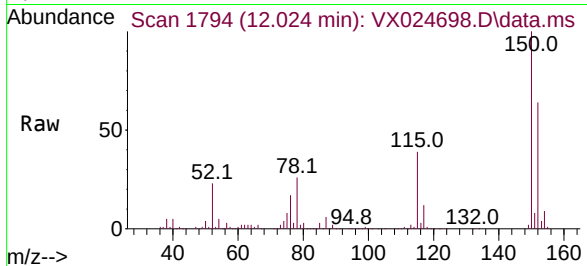




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

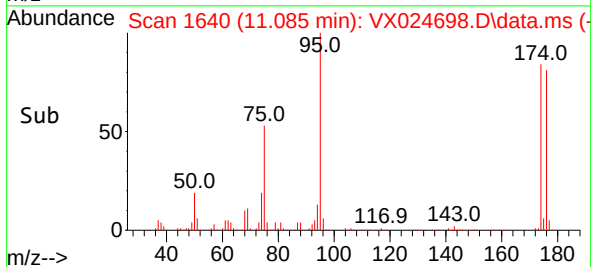
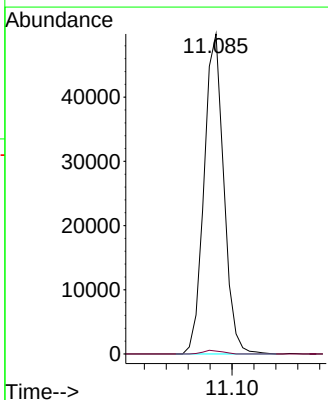
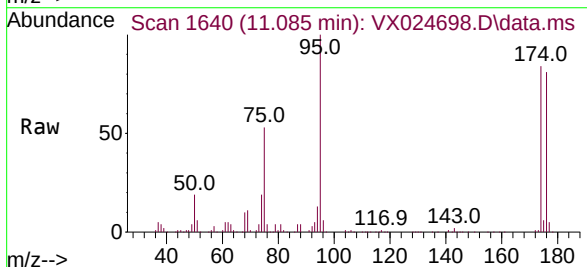
Instrument :  
MSVOA\_X  
ClientSampled :

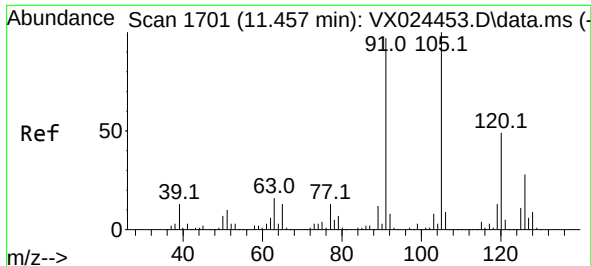
Tgt Ion:152 Resp: 108260  
Ion Ratio Lower Upper  
152 100  
115 59.6 41.1 123.3  
150 157.0 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 25.333 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 75 Resp: 62282  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#

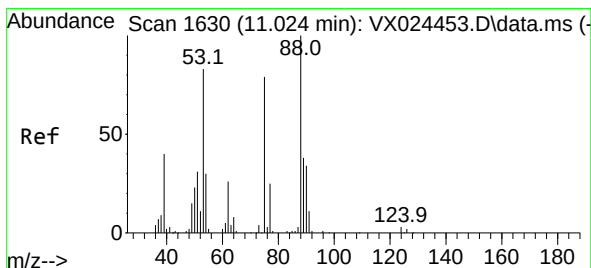
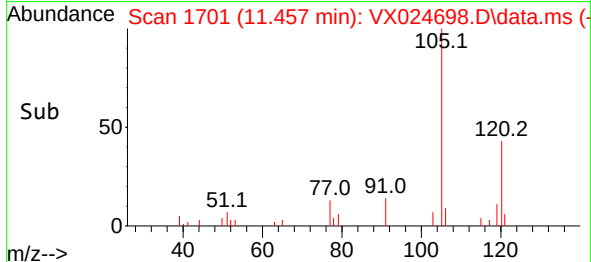
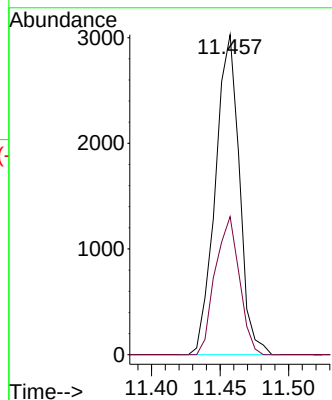
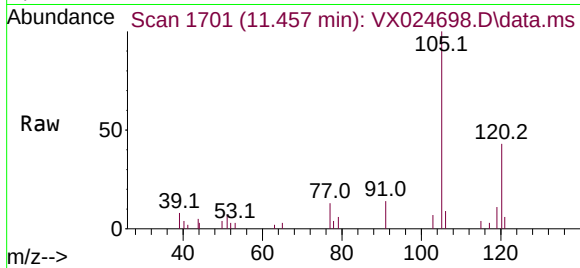




#80  
1,3,5-Trimethylbenzene  
Concen: 0.564 ug/l  
RT: 11.457 min Scan# 1701  
Delta R.T. 0.000 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Instrument :  
MSVOA\_X  
ClientSampled :

Tgt Ion:105 Resp: 3689  
Ion Ratio Lower Upper  
105 100  
120 43.3 23.8 71.5



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.057 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024698.D  
Acq: 09 Oct 2021 03:19

Tgt Ion: 75 Resp: 62282  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#

