

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081621\  
 Data File : VX023747.D  
 Acq On : 16 Aug 2021 18:45  
 Operator : JC/MD  
 Sample : M3407-27  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 17 06:19:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 23 06:05:38 2021  
 Response via : Initial Calibration

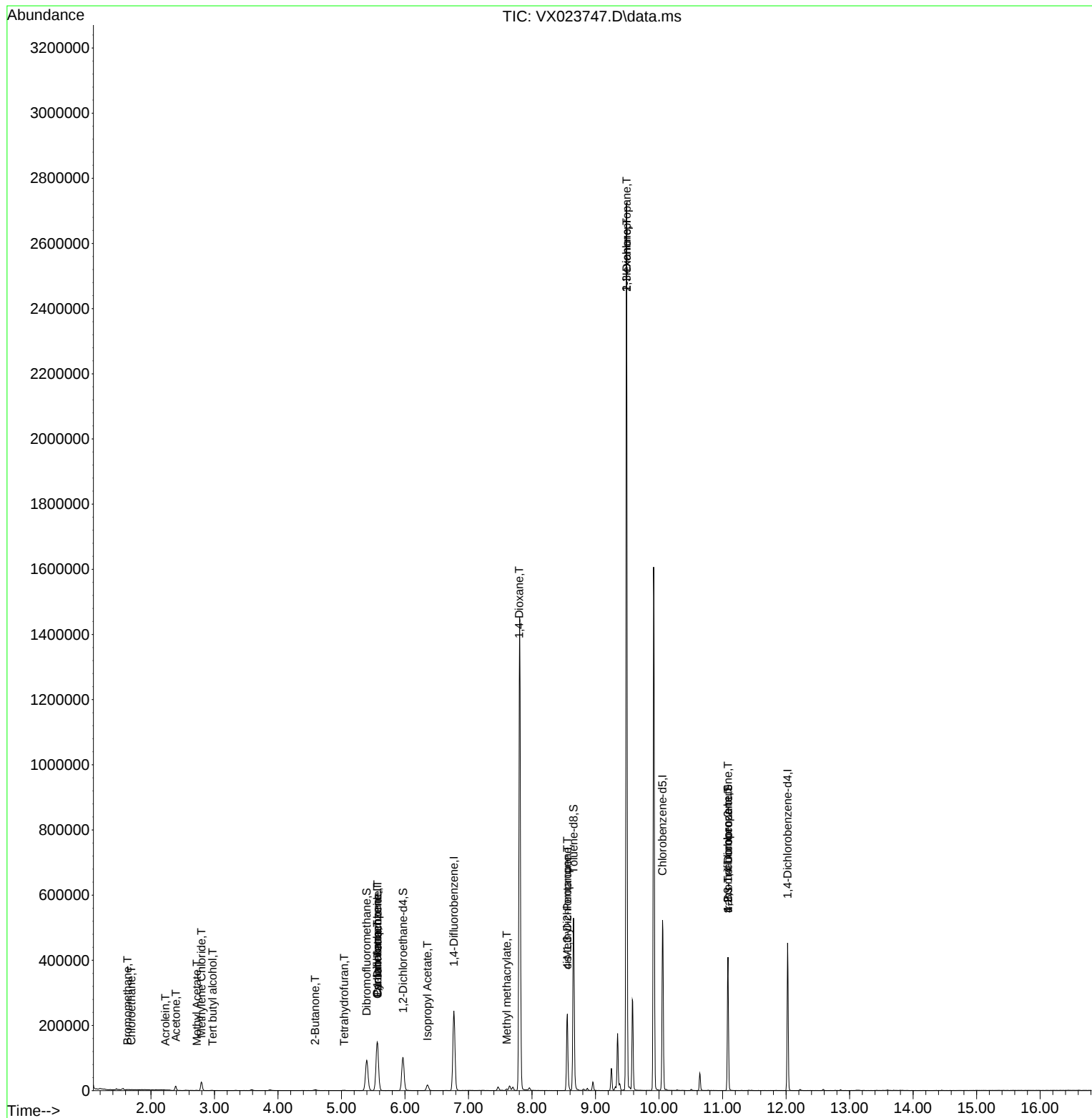
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 140233   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 240332   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 229707   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 88498    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.970  | 65    | 101887   | 58.245   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 116.500% |
| 35) Dibromofluoromethane      | 5.397  | 113   | 78812    | 52.448   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 104.900% |
| 50) Toluene-d8                | 8.653  | 98    | 302251   | 54.747   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 109.500% |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 100026   | 53.282   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 106.560% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.630  | 94    | 505      | 0.559    | ug/l   | 87       |
| 6) Chloroethane               | 1.691  | 64    | 282      | 0.302    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.971  | 59    | 606      | 1.516    | ug/l # | 73       |
| 13) Acrolein                  | 2.227  | 56    | 60       | 1.657    | ug/l # | 14       |
| 16) Acetone                   | 2.392  | 43    | 14166    | 16.509   | ug/l # | 86       |
| 18) Methyl Acetate            | 2.721  | 43    | 1263     | 0.619    | ug/l # | 75       |
| 20) Methylene Chloride        | 2.794  | 84    | 11985    | 7.180    | ug/l   | 87       |
| 25) 2-Butanone                | 4.586  | 43    | 2519     | 1.891    | ug/l # | 84       |
| 29) Tetrahydrofuran           | 5.044  | 42    | 859      | 0.984    | ug/l # | 69       |
| 31) Cyclohexane               | 5.562  | 56    | 3240     | 1.250    | ug/l # | 4        |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 10844    | 4.988    | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.568  | 117   | 13953    | 6.311    | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.354  | 43    | 23484    | 5.529    | ug/l   | 92       |
| 48) Methyl methacrylate       | 7.604  | 41    | 6573     | 3.341    | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 56       | 1.337    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.555  | 43    | 84559    | 32.547   | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.555  | 75    | 34902    | 13.431   | ug/l # | 69       |
| 57) 1,3-Dichloropropane       | 9.488  | 76    | 21622    | 7.869    | ug/l # | 43       |
| 59) 2-Hexanone                | 9.488  | 43    | 320753   | 162.582  | ug/l # | 43       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 53826    | 27.639   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 53826    | 74.318   | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

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

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Quant Title : SW846 8260  
QLast Update : Fri Jul 23 06:05:38 2021  
Response via : Initial Calibration

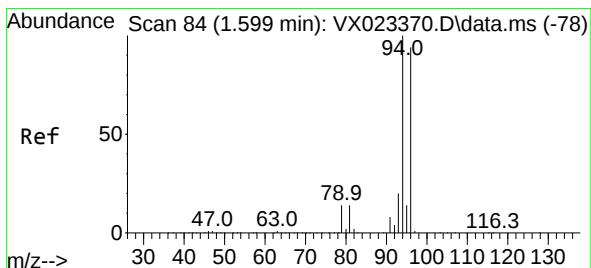
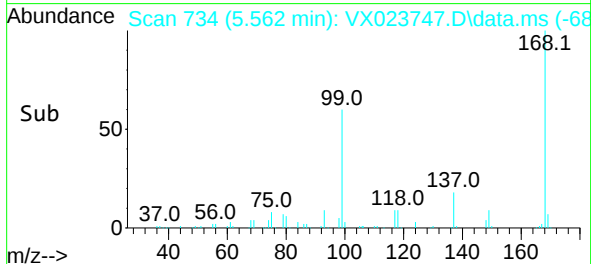
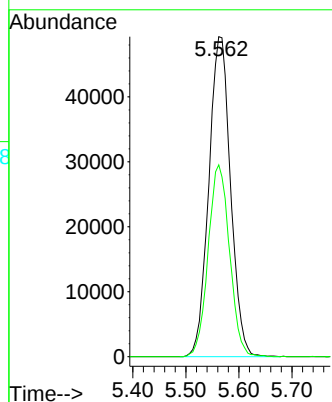
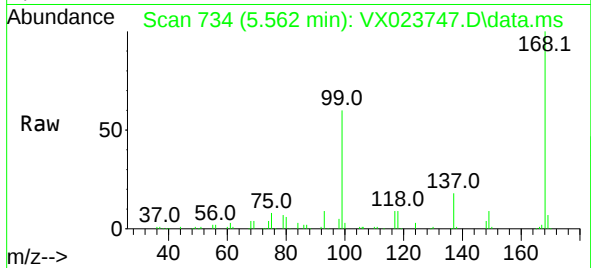




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

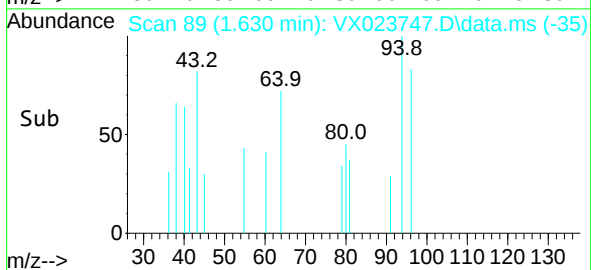
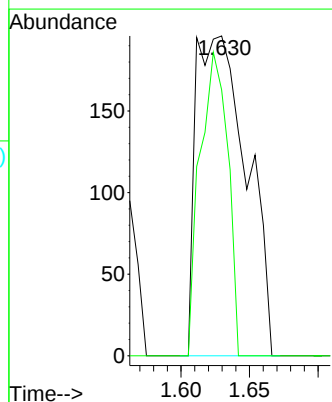
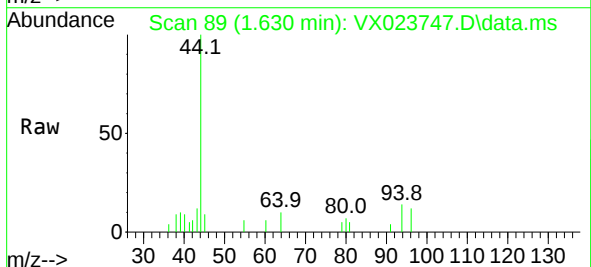
Instrument :  
MSVOA\_X  
ClientSampled :

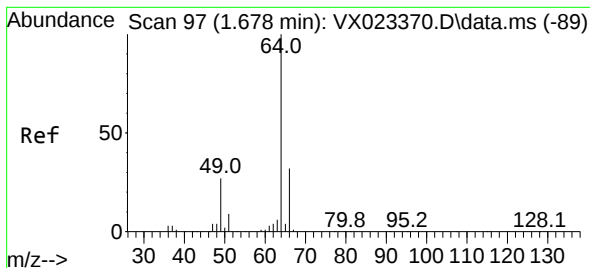
Tgt Ion:168 Resp: 140233  
Ion Ratio Lower Upper  
168 100  
99 59.9 45.8 68.6



#5  
Bromomethane  
Concen: 0.559 ug/l  
RT: 1.630 min Scan# 89  
Delta R.T. 0.031 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 94 Resp: 505  
Ion Ratio Lower Upper  
94 100  
96 83.2 76.4 114.6





#6

Chloroethane

Concen: 0.302 ug/l

RT: 1.691 min Scan# 99

Delta R.T. 0.013 min

Lab File: VX023747.D

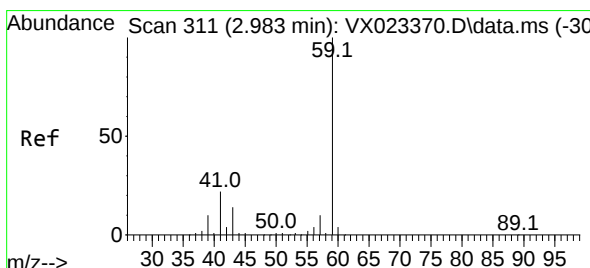
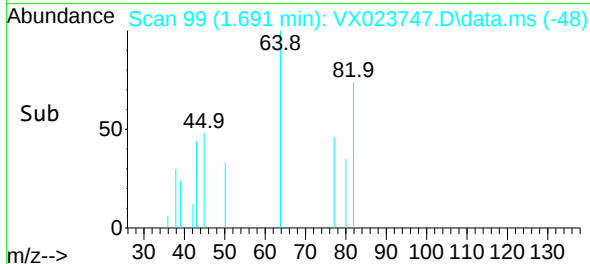
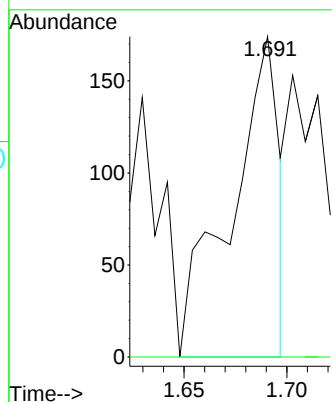
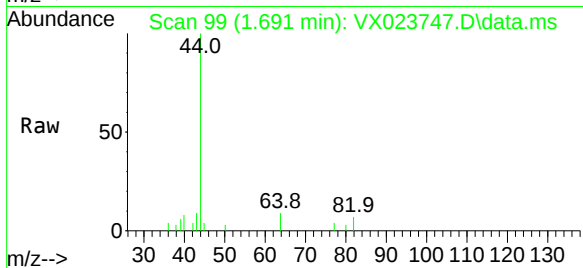
Acq: 16 Aug 2021 18:45

Tgt Ion: 64 Resp: 282

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



#11

Tert butyl alcohol

Concen: 1.516 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.012 min

Lab File: VX023747.D

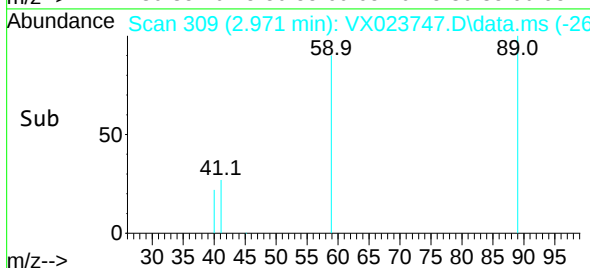
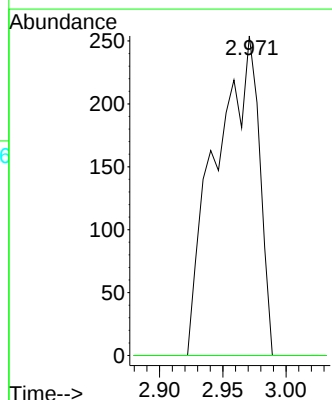
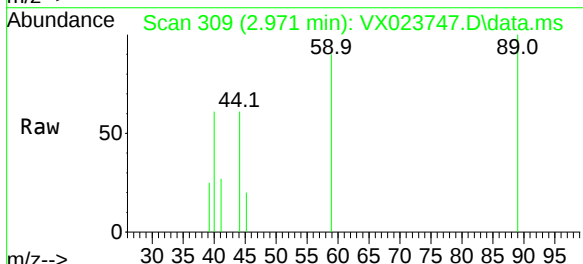
Acq: 16 Aug 2021 18:45

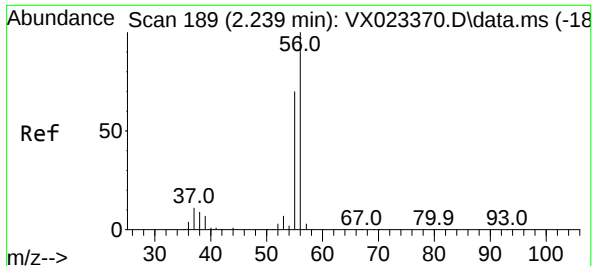
Tgt Ion: 59 Resp: 606

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#

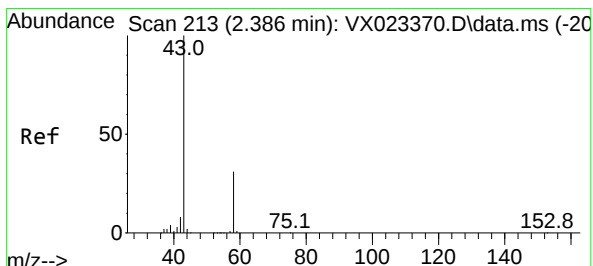
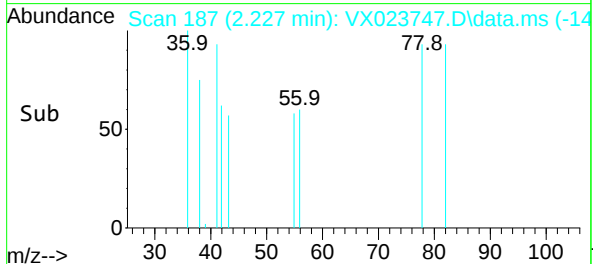
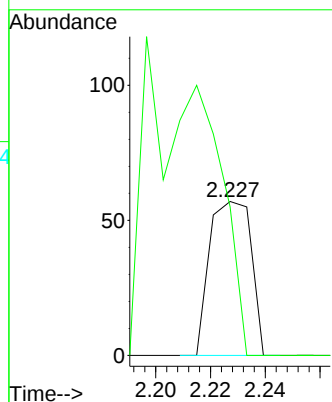
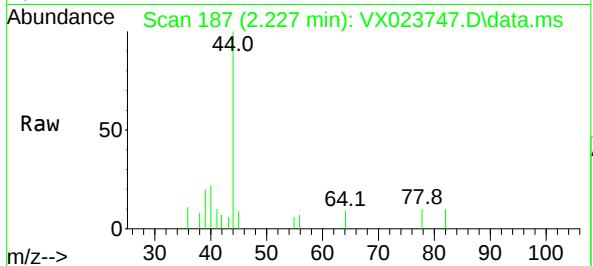




#13  
Acrolein  
Concen: 1.657 ug/l  
RT: 2.227 min Scan# 187  
Delta R.T. -0.012 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

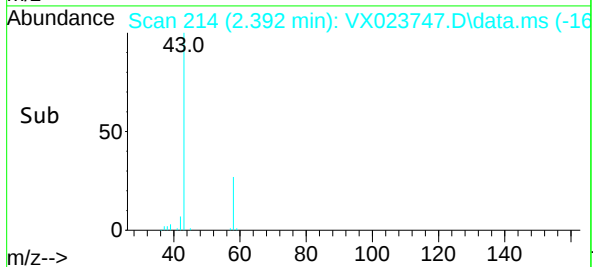
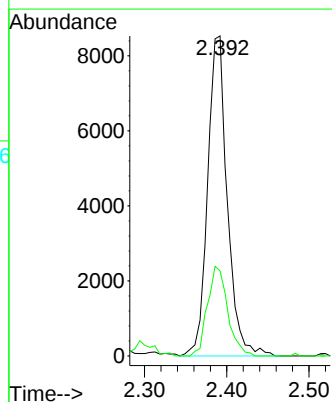
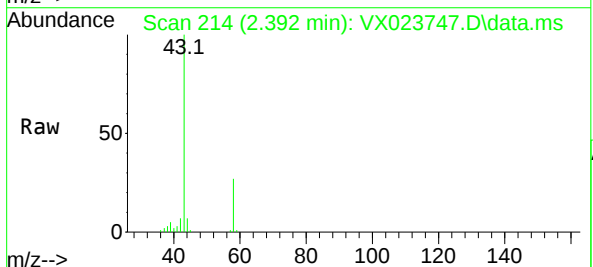
Instrument :  
MSVOA\_X  
ClientSampled :

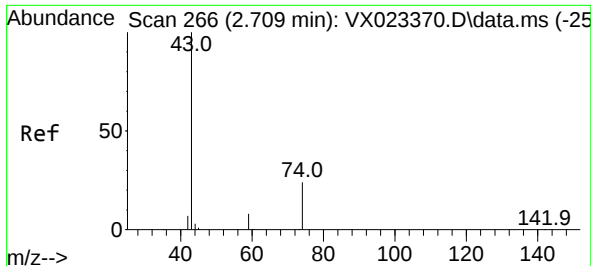
Tgt Ion: 56 Resp: 60  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.4 84.6#



#16  
Acetone  
Concen: 16.509 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 43 Resp: 14166  
Ion Ratio Lower Upper  
43 100  
58 26.6 27.8 41.8#

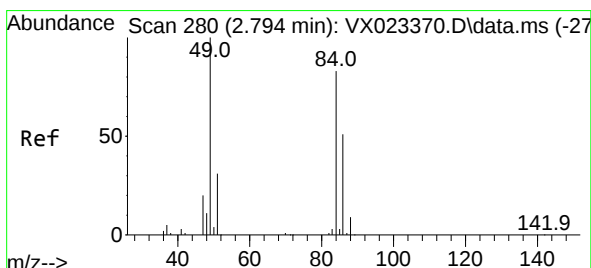
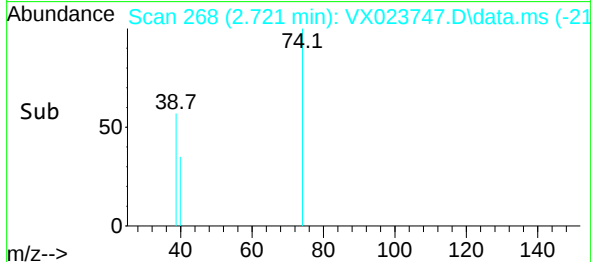
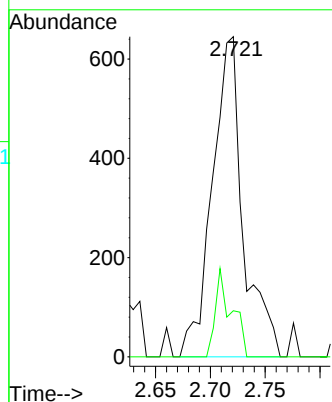
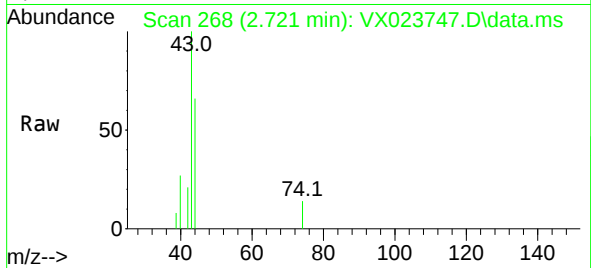




#18  
Methyl Acetate  
Concen: 0.619 ug/l  
RT: 2.721 min Scan# 268  
Delta R.T. 0.012 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

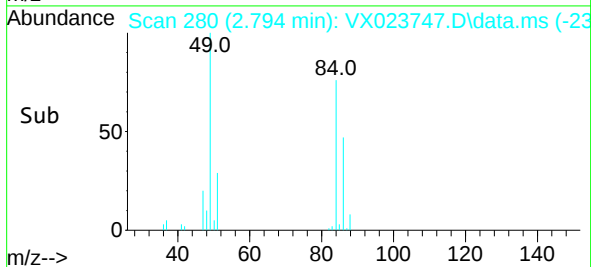
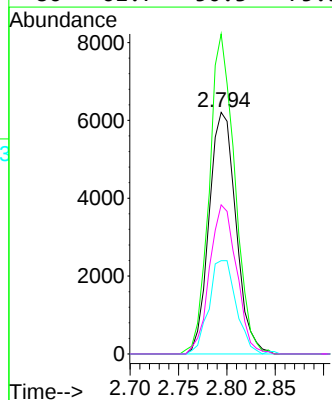
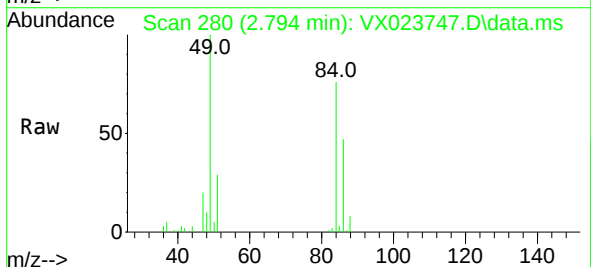
Instrument :  
MSVOA\_X  
ClientSampled :

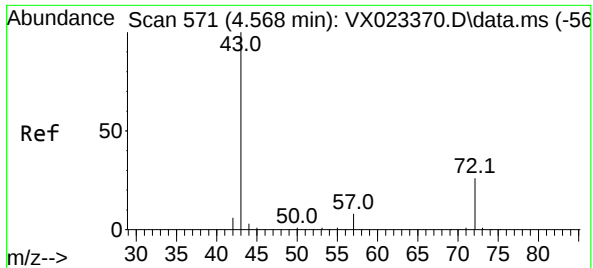
Tgt Ion: 43 Resp: 1263  
Ion Ratio Lower Upper  
43 100  
74 14.5 21.9 32.9#



#20  
Methylene Chloride  
Concen: 7.180 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 84 Resp: 11985  
Ion Ratio Lower Upper  
84 100  
49 132.4 88.6 132.8  
51 38.6 27.0 40.6  
86 61.7 50.3 75.5

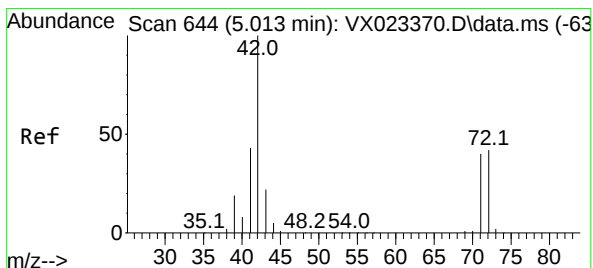
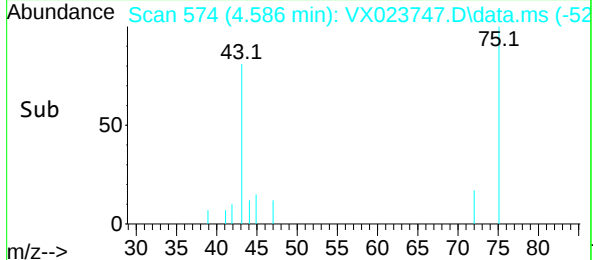
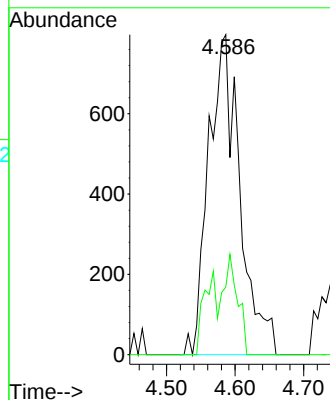
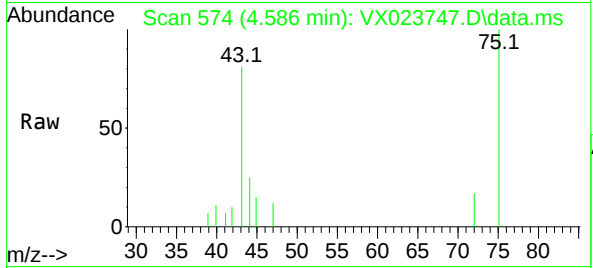




#25  
2-Butanone  
Concen: 1.891 ug/l  
RT: 4.586 min Scan# 574  
Delta R.T. 0.018 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

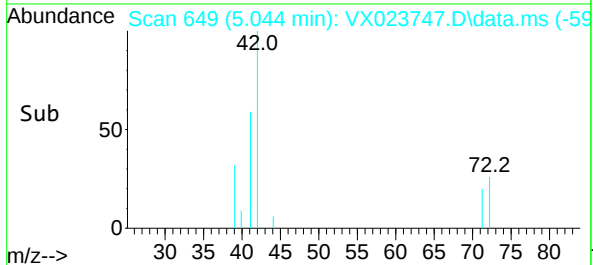
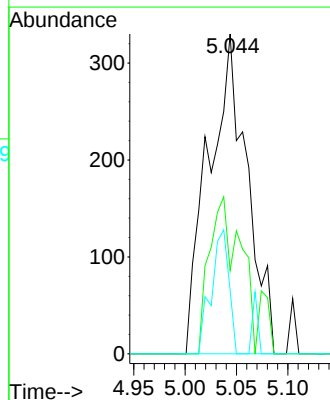
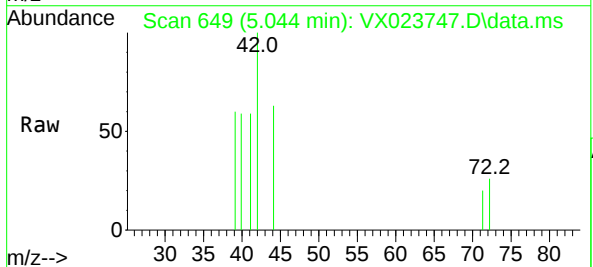
Instrument :  
MSVOA\_X  
ClientSampled :

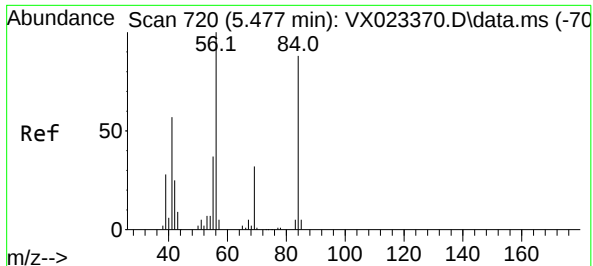
Tgt Ion: 43 Resp: 2519  
Ion Ratio Lower Upper  
43 100  
72 21.1 23.7 35.5#



#29  
Tetrahydrofuran  
Concen: 0.984 ug/l  
RT: 5.044 min Scan# 649  
Delta R.T. 0.031 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

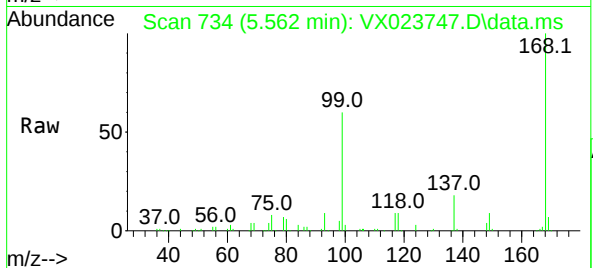
Tgt Ion: 42 Resp: 859  
Ion Ratio Lower Upper  
42 100  
72 39.6 41.7 62.5#  
71 17.8 38.4 57.6#



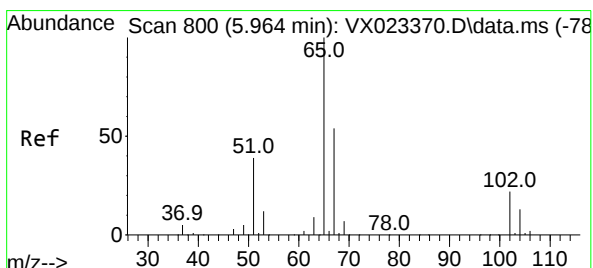
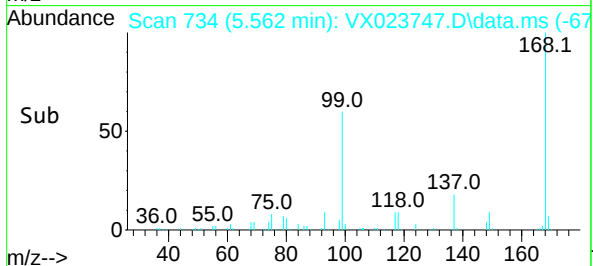
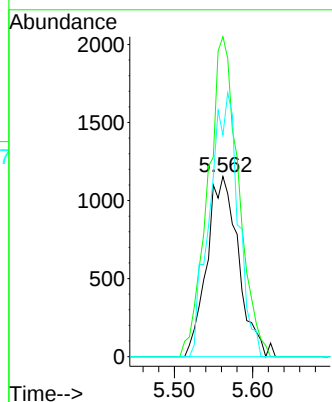


#31  
Cyclohexane  
Concen: 1.250 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Instrument :  
MSVOA\_X  
ClientSampleId :

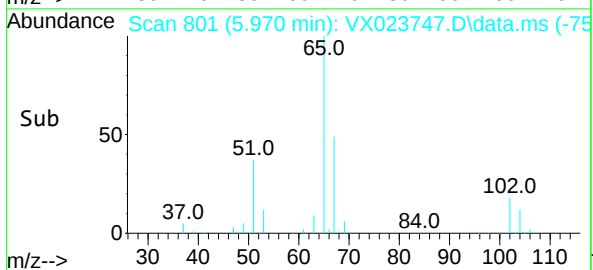
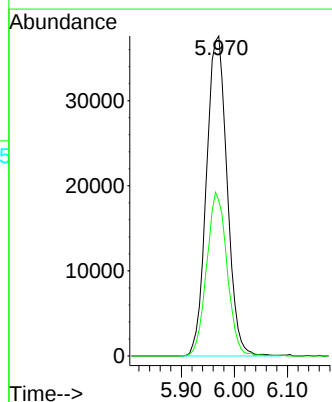
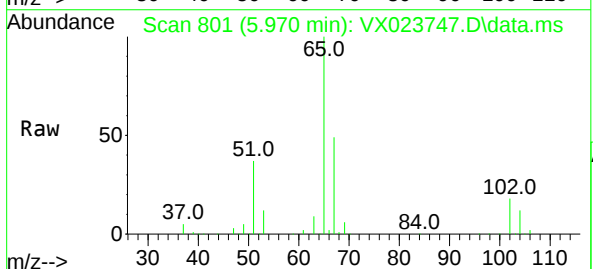


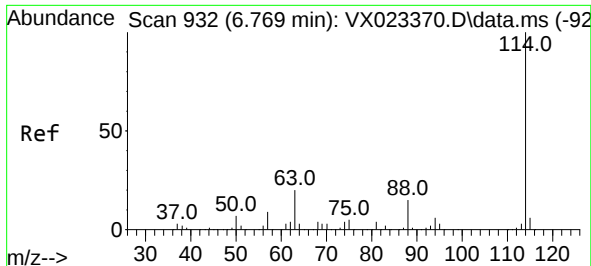
Tgt Ion: 56 Resp: 3240  
Ion Ratio Lower Upper  
56 100  
69 177.6 25.3 37.9#  
84 123.0 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 58.245 ug/l  
RT: 5.970 min Scan# 801  
Delta R.T. 0.006 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 65 Resp: 101887  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 105.4

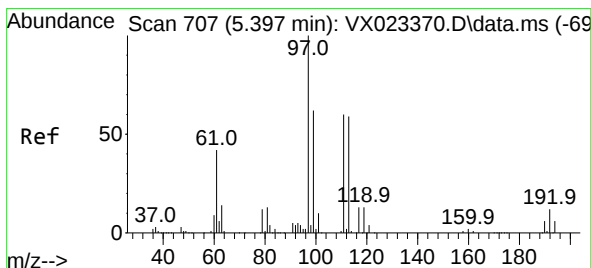
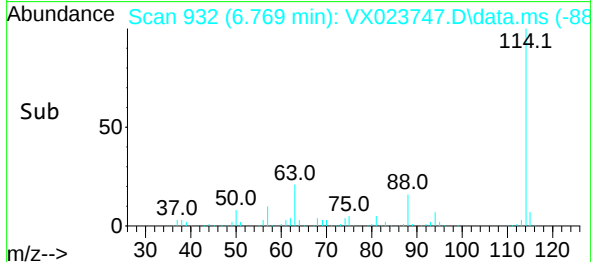
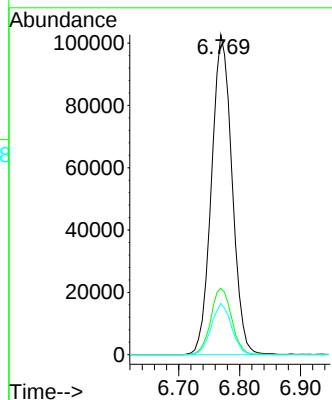
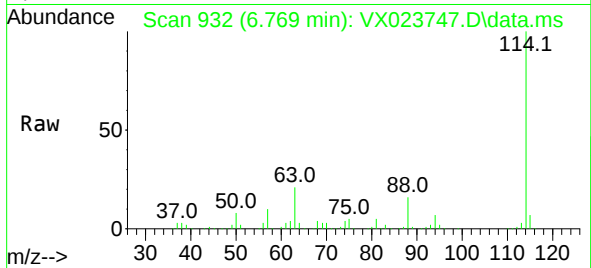




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

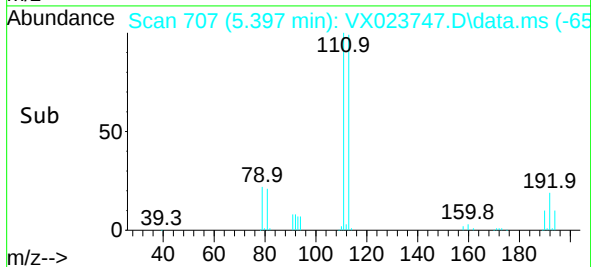
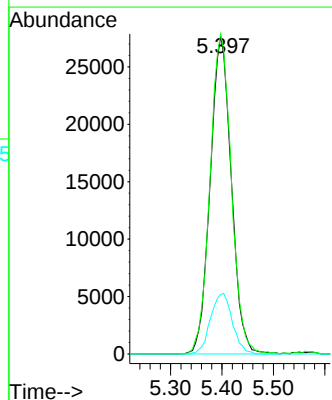
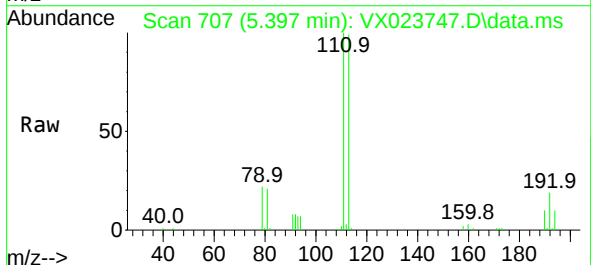
Instrument :  
MSVOA\_X  
ClientSampleId :

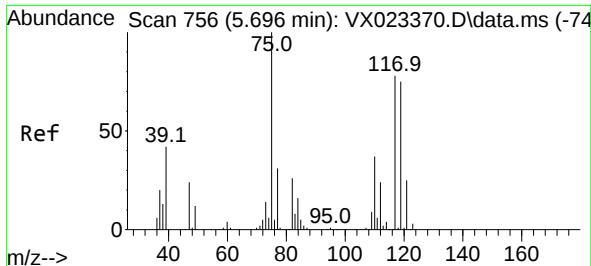
Tgt Ion:114 Resp: 240332  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 40.8  
88 16.0 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 52.448 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion:113 Resp: 78812  
Ion Ratio Lower Upper  
113 100  
111 101.7 81.9 122.9  
192 19.7 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.988 ug/l

RT: 5.562 min Scan# 734

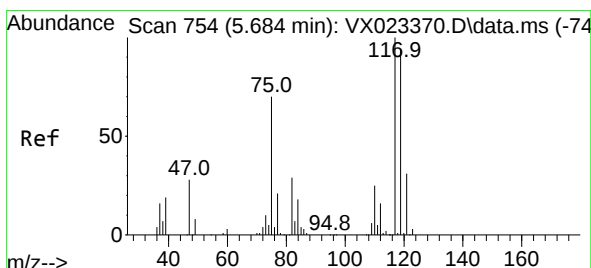
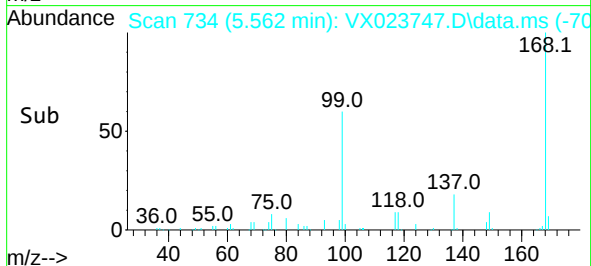
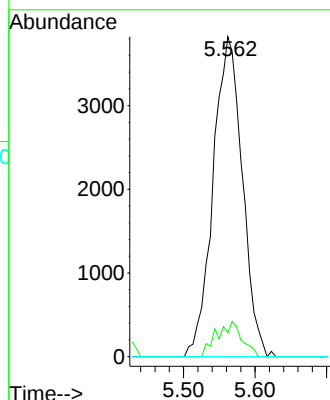
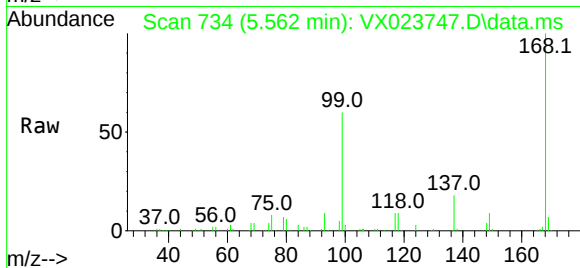
Delta R.T. -0.134 min

Lab File: VX023747.D

Acq: 16 Aug 2021 18:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 10844 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.5   | 18.1  | 54.4# |
| 77       | 0.0   | 25.3  | 37.9# |

Instrument :  
MSVOA\_X  
ClientSampleId :



#38

Carbon Tetrachloride

Concen: 6.311 ug/l

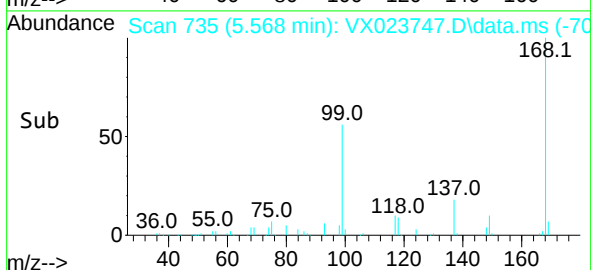
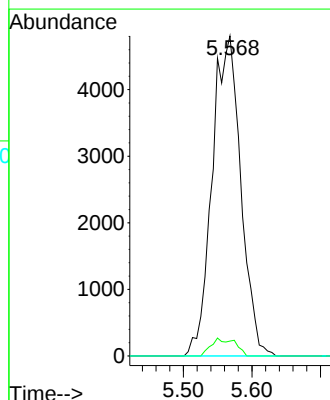
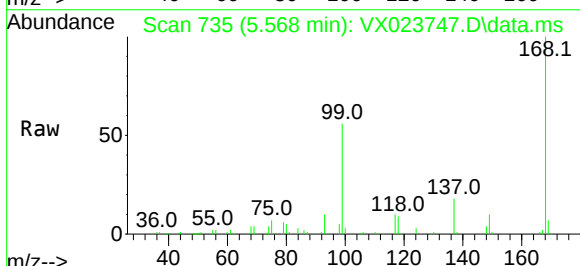
RT: 5.568 min Scan# 735

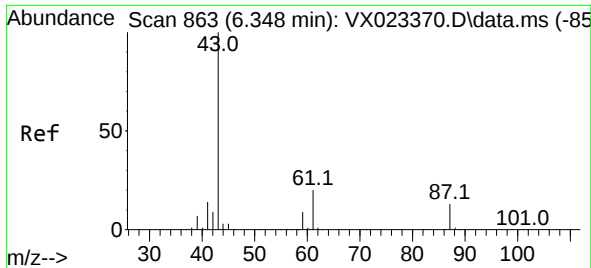
Delta R.T. -0.116 min

Lab File: VX023747.D

Acq: 16 Aug 2021 18:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13953  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 4.6   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |

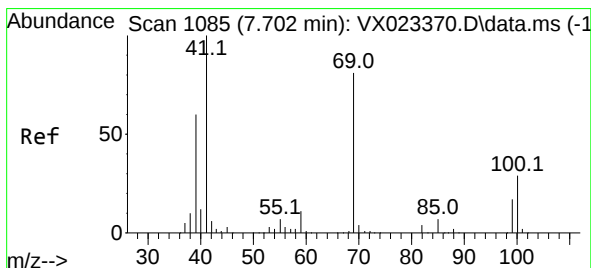
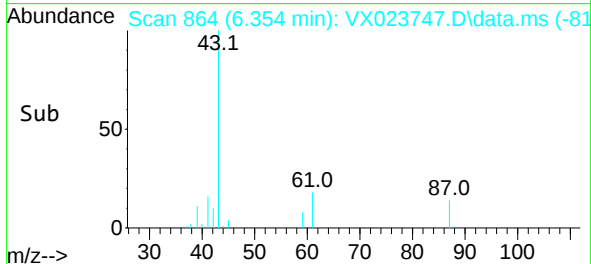
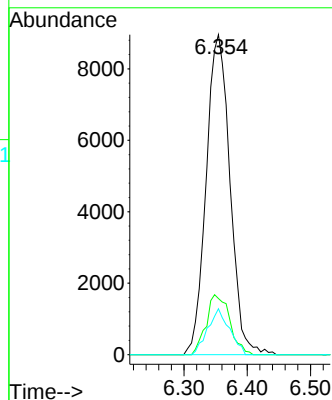
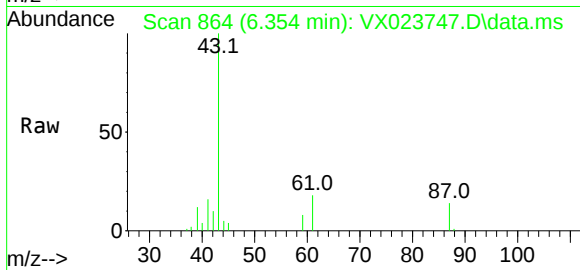




#43  
Isopropyl Acetate  
Concen: 5.529 ug/l  
RT: 6.354 min Scan# 864  
Delta R.T. 0.006 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

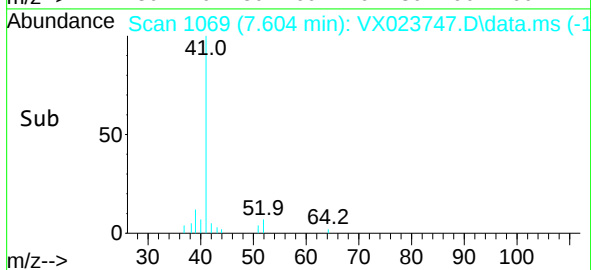
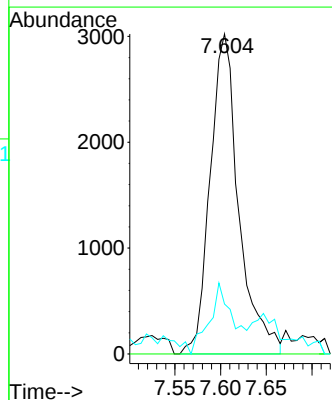
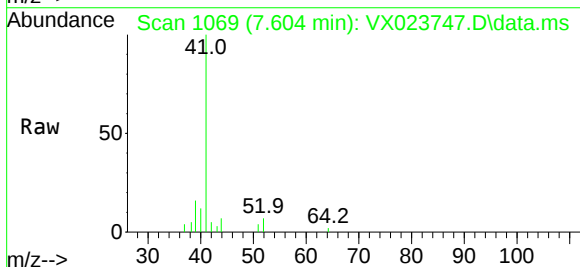
Instrument :  
MSVOA\_X  
ClientSampleId :

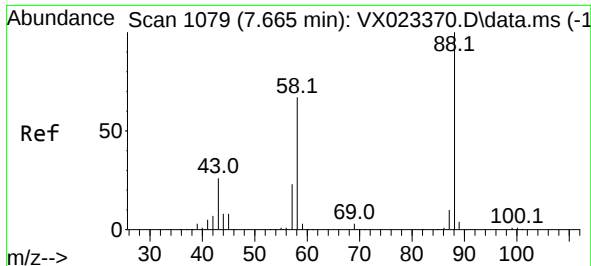
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 23484 |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 61        | 18.5  | 18.2  | 27.4  |
| 87        | 13.0  | 12.5  | 18.7  |



#48  
Methyl methacrylate  
Concen: 3.341 ug/l  
RT: 7.604 min Scan# 1069  
Delta R.T. -0.098 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 6573   |
| 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: 1.337 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.134 min

Lab File: VX023747.D

Acq: 16 Aug 2021 18:45

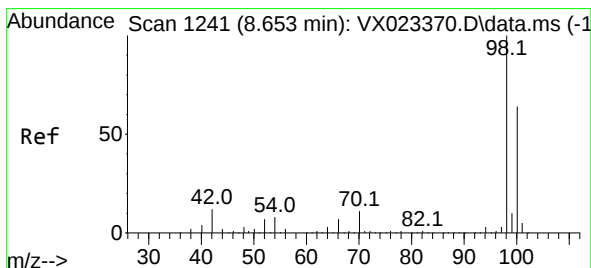
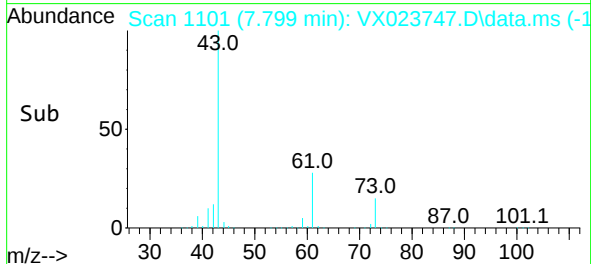
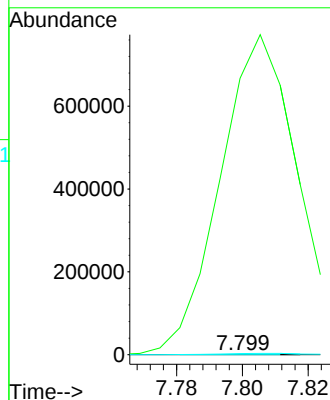
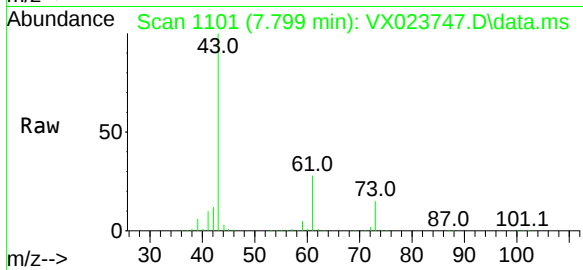
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 2301469.6 23.2 34.8#

58 10121.4 55.0 82.4#



#50

Toluene-d8

Concen: 54.747 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX023747.D

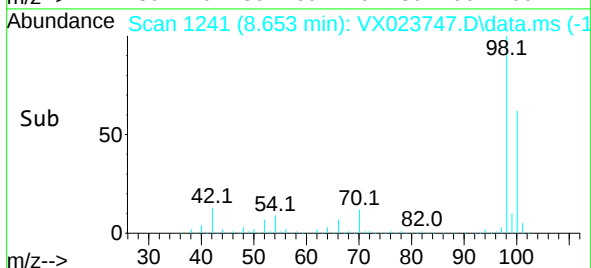
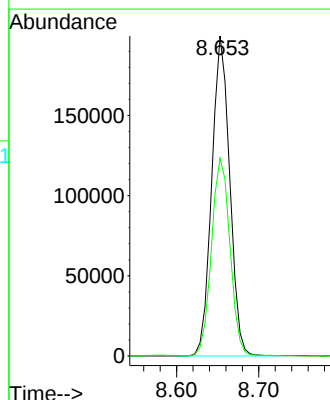
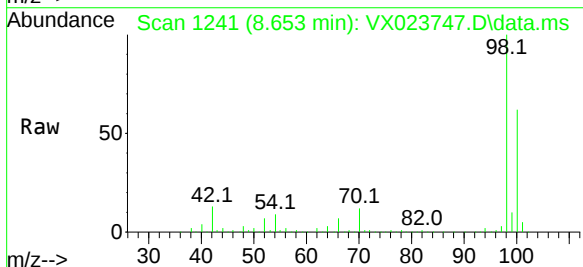
Acq: 16 Aug 2021 18:45

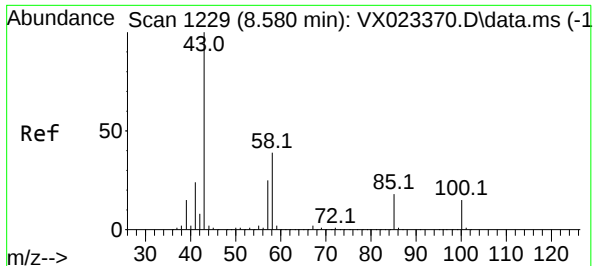
Tgt Ion: 98 Resp: 302251

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9

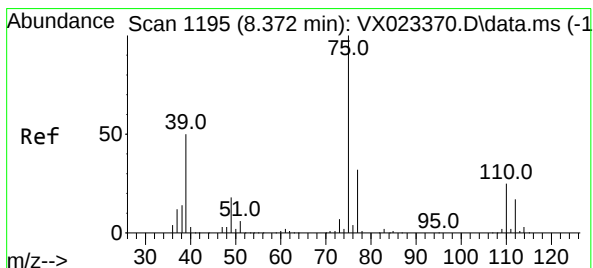
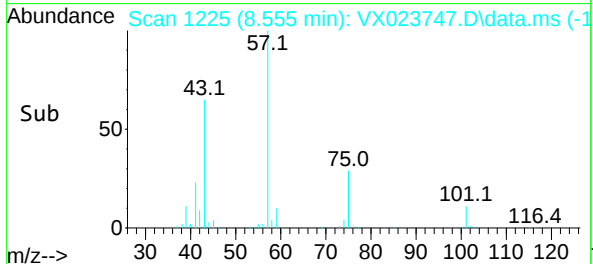
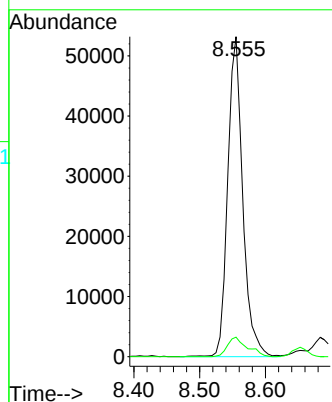
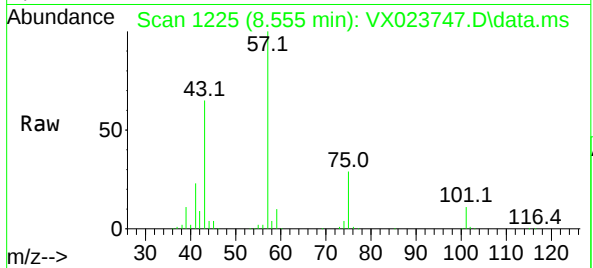




#51  
4-Methyl-2-Pentanone  
Concen: 32.547 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. -0.025 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

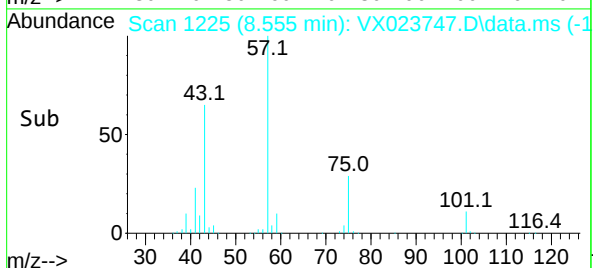
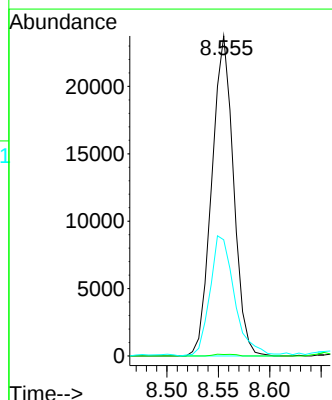
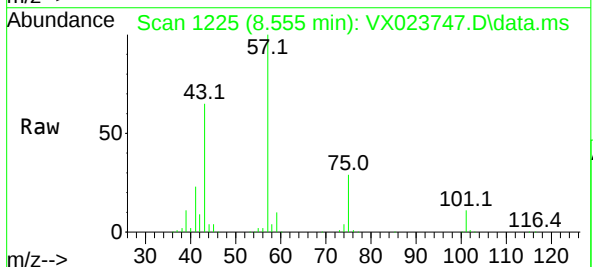
Instrument :  
MSVOA\_X  
ClientSampled :

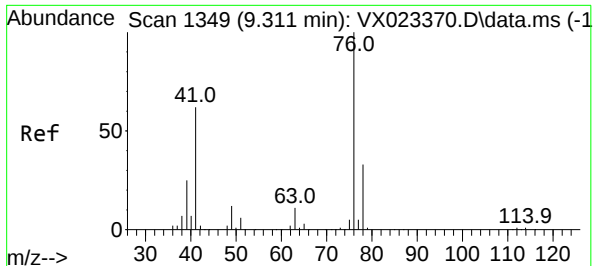
Tgt Ion: 43 Resp: 84559  
Ion Ratio Lower Upper  
43 100  
58 8.1 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 13.431 ug/l  
RT: 8.555 min Scan# 1225  
Delta R.T. 0.183 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 75 Resp: 34902  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.7 38.5#  
39 36.3 35.1 52.7



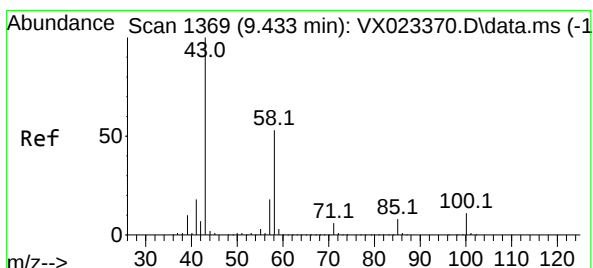
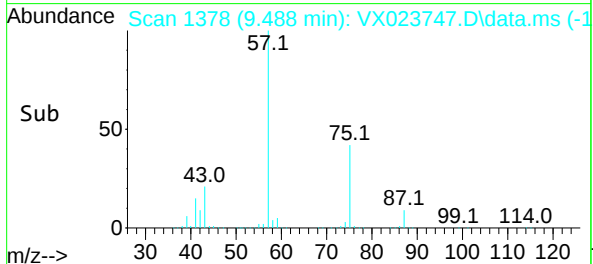
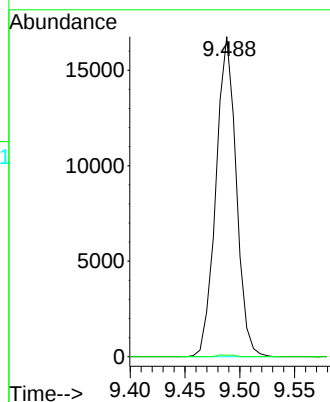
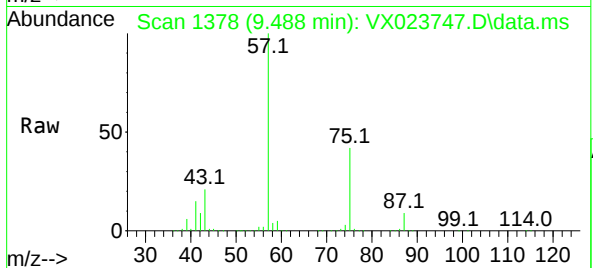


#57

1,3-Dichloropropane  
Concen: 7.869 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.177 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Instrument :  
MSVOA\_X  
ClientSampled :

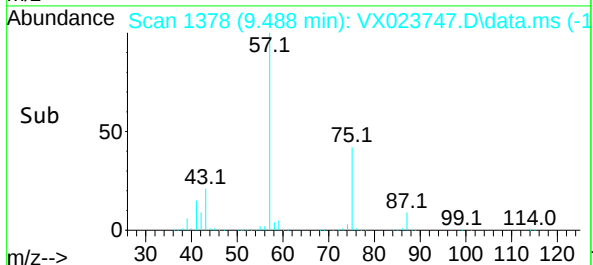
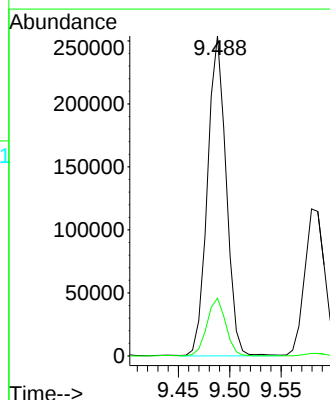
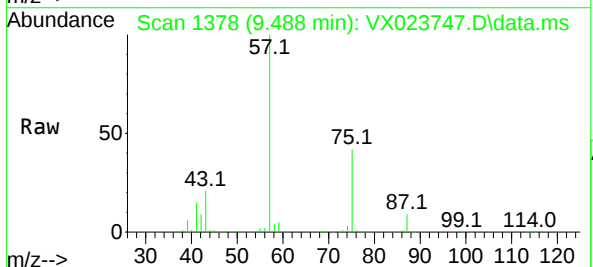
Tgt Ion: 76 Resp: 21622  
Ion Ratio Lower Upper  
76 100  
78 0.4 26.2 39.2#

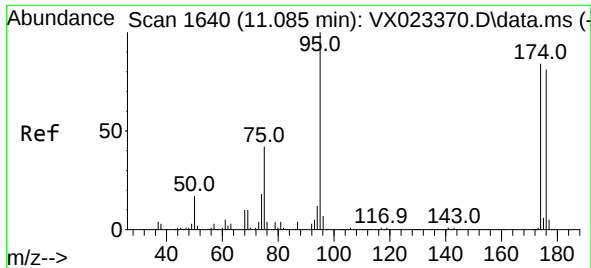


#59

2-Hexanone  
Concen: 162.582 ug/l  
RT: 9.488 min Scan# 1378  
Delta R.T. 0.055 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 43 Resp: 320753  
Ion Ratio Lower Upper  
43 100  
58 18.1 30.9 92.8#

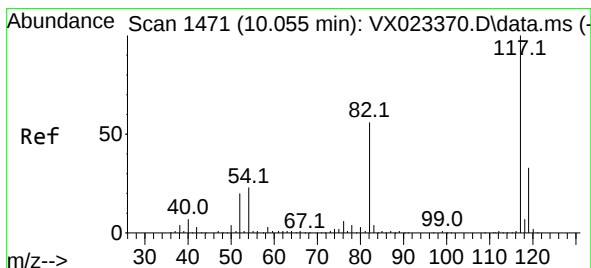
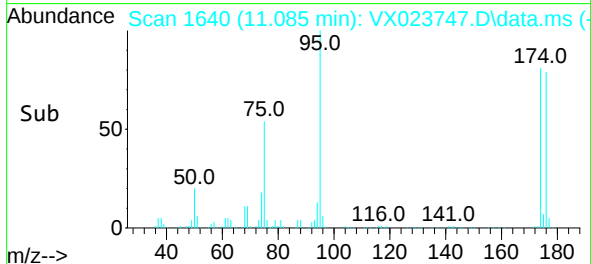
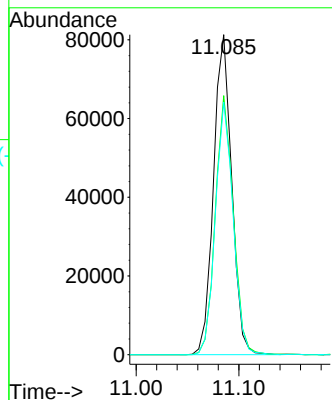
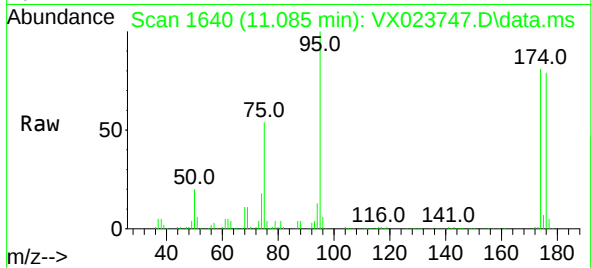




#62  
4-Bromofluorobenzene  
Concen: 53.282 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

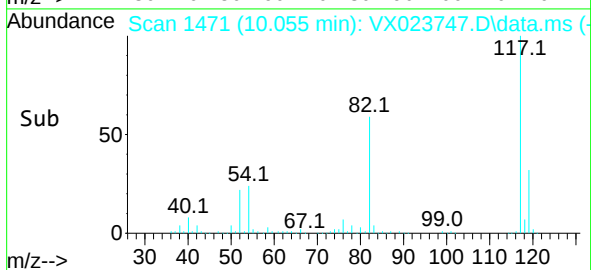
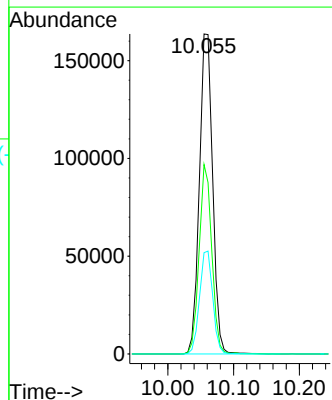
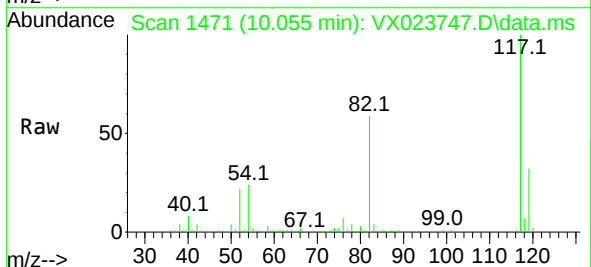
Instrument :  
MSVOA\_X  
ClientSampleId :

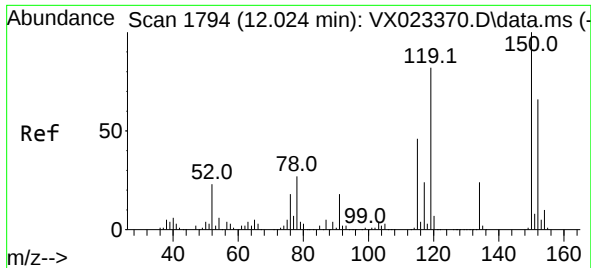
Tgt Ion: 95 Resp: 100026  
Ion Ratio Lower Upper  
95 100  
174 79.8 0.0 154.6  
176 77.2 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

Tgt Ion: 117 Resp: 229707  
Ion Ratio Lower Upper  
117 100  
82 59.2 47.4 71.2  
119 31.7 26.6 39.8

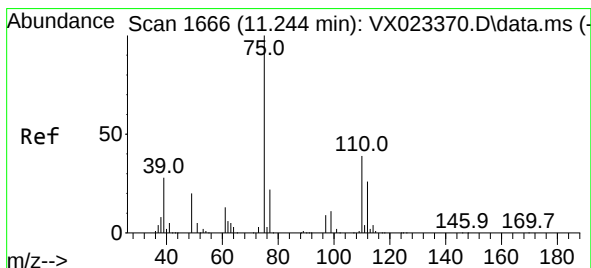
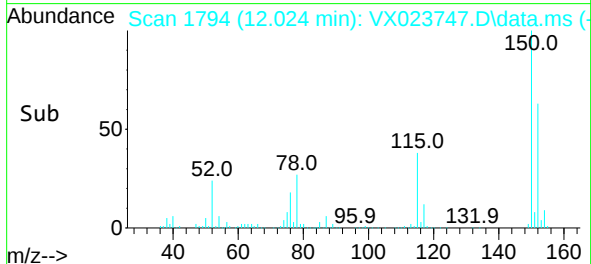
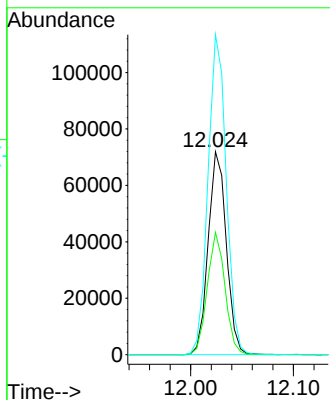
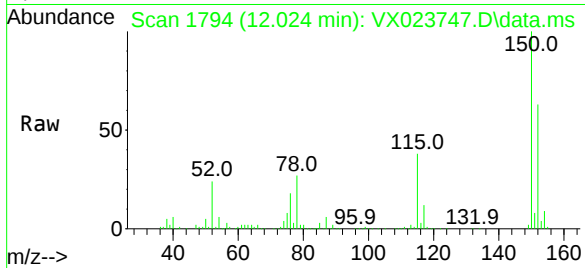




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

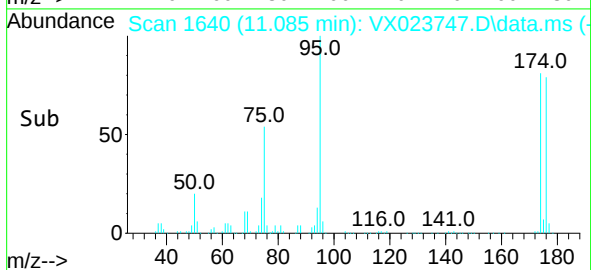
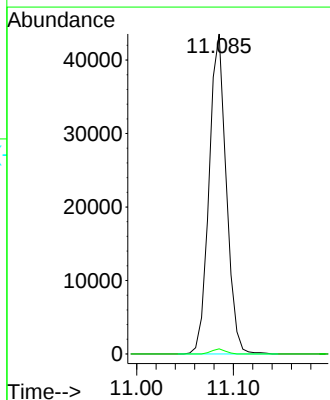
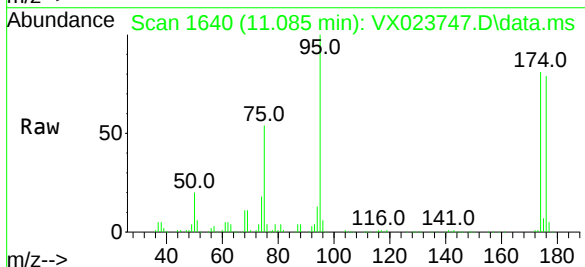
Instrument :  
MSVOA\_X  
ClientSampled :

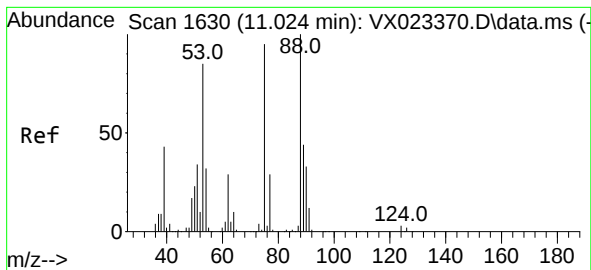
Tgt Ion:152 Resp: 88498  
Ion Ratio Lower Upper  
152 100  
115 58.9 41.1 123.3  
150 158.0 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 27.639 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX023747.D  
Acq: 16 Aug 2021 18:45

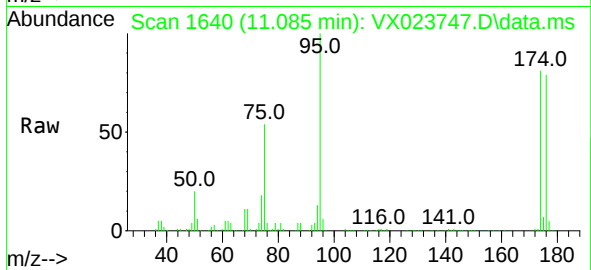
Tgt Ion: 75 Resp: 53826  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 74.318 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. 0.061 min  
 Lab File: VX023747.D  
 Acq: 16 Aug 2021 18:45

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 53826  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 74.5  | 111.7# |
| 89       | 0.0   | 37.9  | 56.9#  |

