

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091925\  
 Data File : VX047685.D  
 Acq On : 19 Sep 2025 18:22  
 Operator : JC/MD  
 Sample : Q3097-13  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP05-20250911

Quant Time: Sep 20 00:37:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 17 06:39:58 2025  
 Response via : Initial Calibration

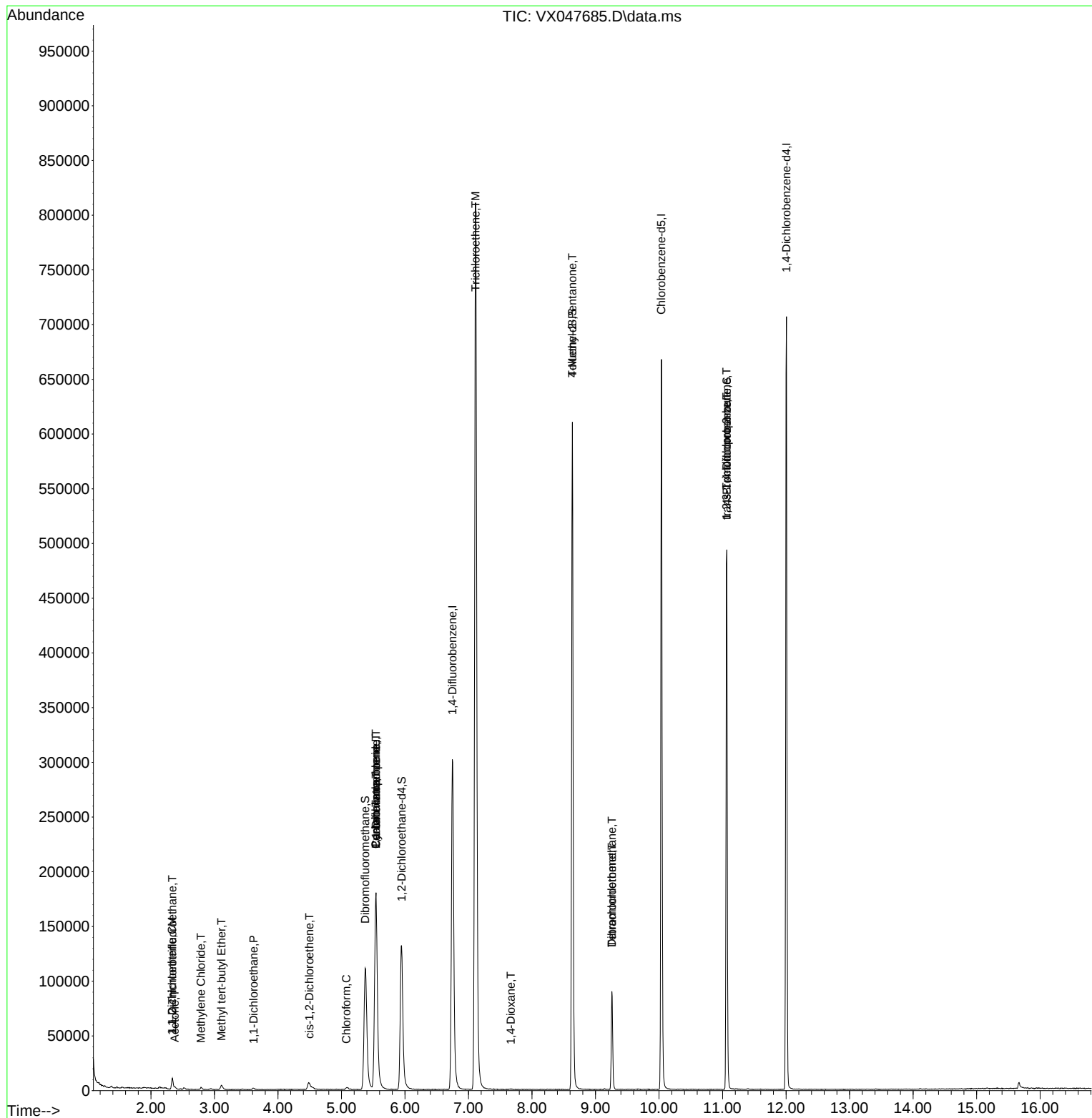
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 181407   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.745  | 114   | 335366   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.037 | 117   | 298999   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006 | 152   | 146680   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946  | 65    | 144009   | 49.873   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 99.740%  |
| 35) Dibromofluoromethane      | 5.373  | 113   | 110247   | 49.017   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 98.040%  |
| 50) Toluene-d8                | 8.634  | 98    | 372718   | 47.892   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 95.780%  |
| 62) 4-Bromofluorobenzene      | 11.067 | 95    | 144318   | 48.862   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 97.720%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337  | 101   | 3451     | 1.645    | ug/l   | 92       |
| 12) 1,1-Dichloroethene        | 2.331  | 96    | 1183     | 0.549    | ug/l   | 94       |
| 16) Acetone                   | 2.373  | 43    | 1630     | 1.298    | ug/l   | 89       |
| 19) Methyl tert-butyl Ether   | 3.111  | 73    | 4591     | 0.584    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788  | 84    | 861      | 0.324    | ug/l # | 88       |
| 24) 1,1-Dichloroethane        | 3.617  | 63    | 1794     | 0.392    | ug/l # | 81       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 4109     | 1.446    | ug/l   | 97       |
| 30) Chloroform                | 5.074  | 83    | 1237     | 0.267    | ug/l   | 96       |
| 31) Cyclohexane               | 5.544  | 56    | 4068     | 1.066    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 15198    | 4.624    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 19220    | 5.382    | ug/l # | 17       |
| 44) Trichloroethene           | 7.110  | 130   | 337410   | 139.813  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.665  | 88    | 436      | 15.007   | ug/l # | 45       |
| 51) 4-Methyl-2-Pentanone      | 8.634  | 43    | 1788     | 0.559    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.256  | 129   | 17509    | 6.408    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.256  | 164   | 17507    | 8.982    | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.061 | 75    | 74014    | 24.922   | ug/l # | 40       |
| 81) trans-1,4-Dichloro-2-b... | 11.061 | 75    | 74014    | 63.555   | ug/l # | 8        |
| -----                         |        |       |          |          |        |          |

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

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Quant Title : SW846 8260  
QLast Update : Wed Sep 17 06:39:58 2025  
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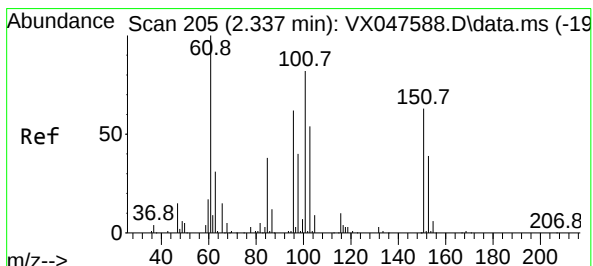
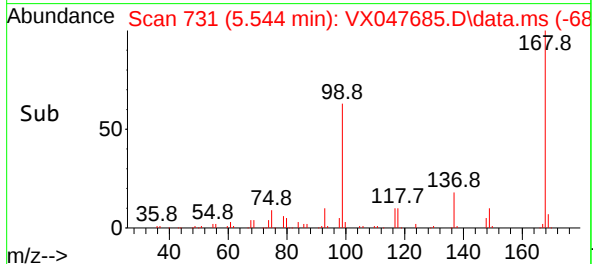
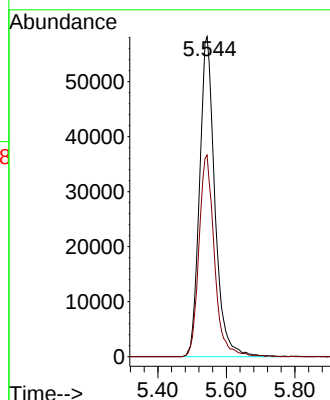
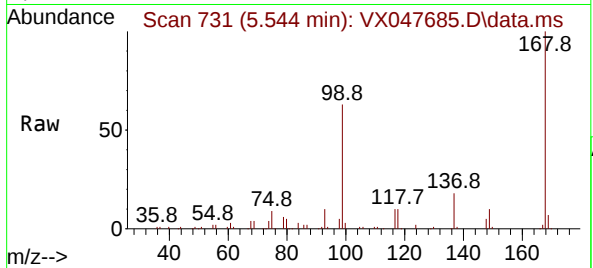




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

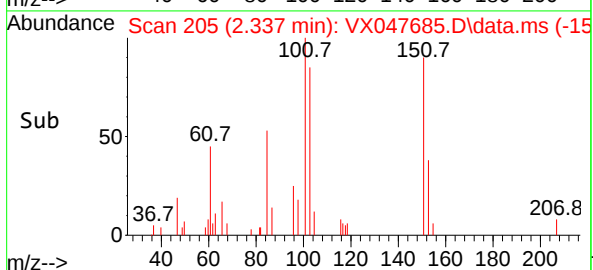
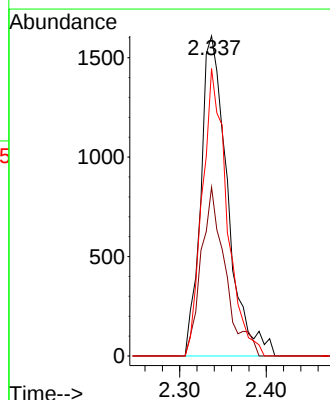
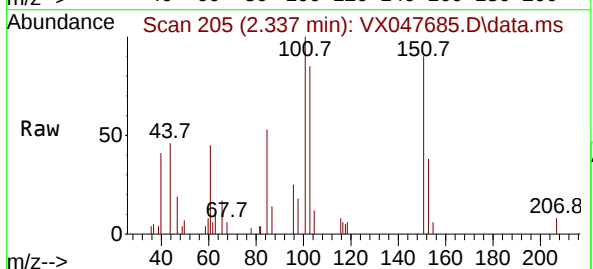
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

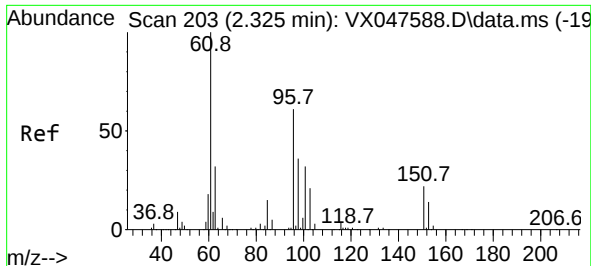
Tgt Ion:168 Resp: 181407  
Ion Ratio Lower Upper  
168 100  
99 63.0 48.8 73.2



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.645 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Tgt Ion:101 Resp: 3451  
Ion Ratio Lower Upper  
101 100  
85 47.7 35.5 53.3  
151 82.8 59.4 89.0





#12

1,1-Dichloroethene

Concen: 0.549 ug/l

RT: 2.331 min Scan# 203

Delta R.T. 0.006 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

Instrument :

MSVOA\_X

ClientSampleId :

DUP05-20250911

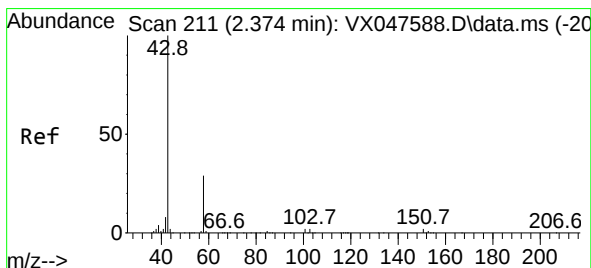
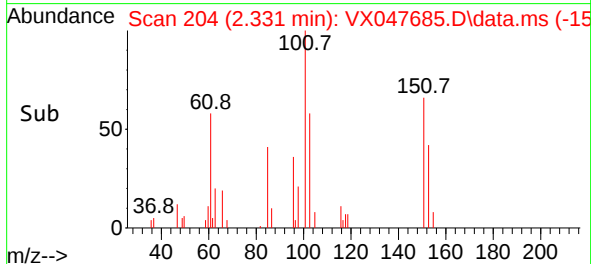
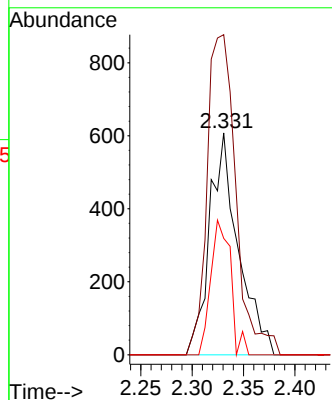
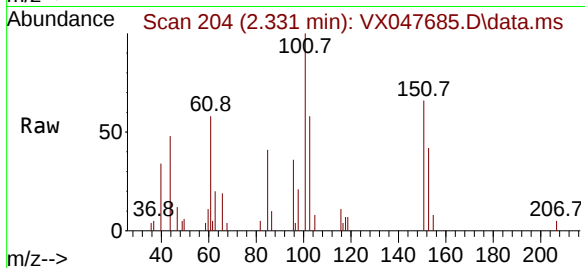
Tgt Ion: 96 Resp: 1183

Ion Ratio Lower Upper

96 100

61 157.6 131.0 196.6

98 52.5 47.7 71.5



#16

Acetone

Concen: 1.298 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX047685.D

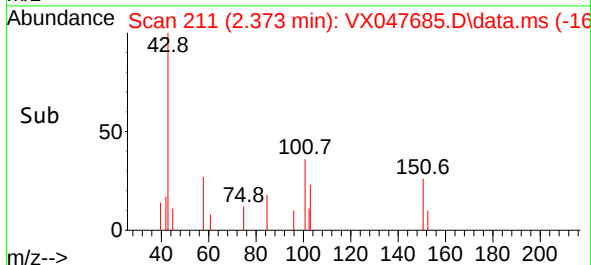
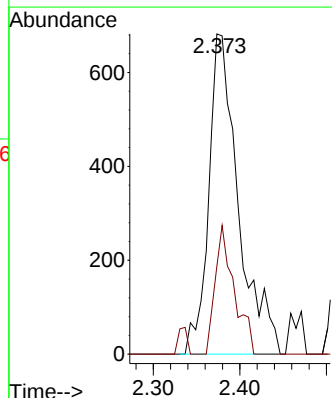
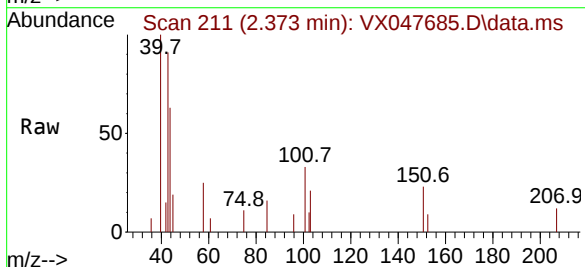
Acq: 19 Sep 2025 18:22

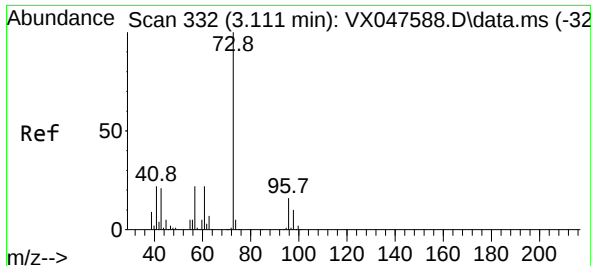
Tgt Ion: 43 Resp: 1630

Ion Ratio Lower Upper

43 100

58 35.0 23.4 35.0

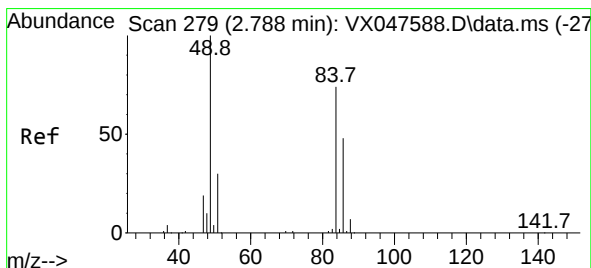
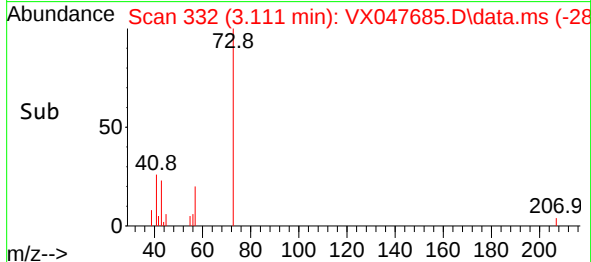
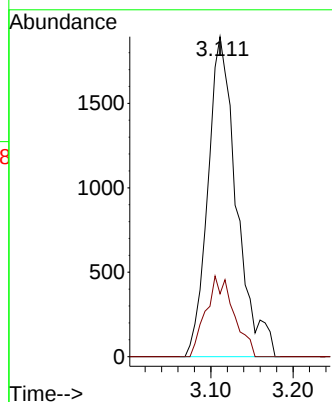
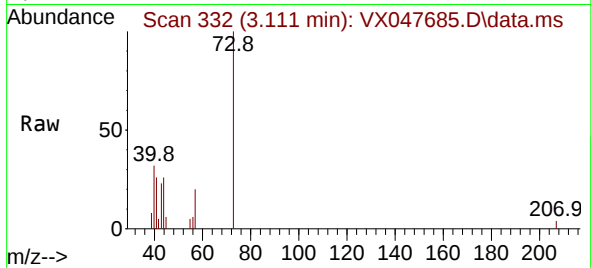




#19  
Methyl tert-butyl Ether  
Concen: 0.584 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

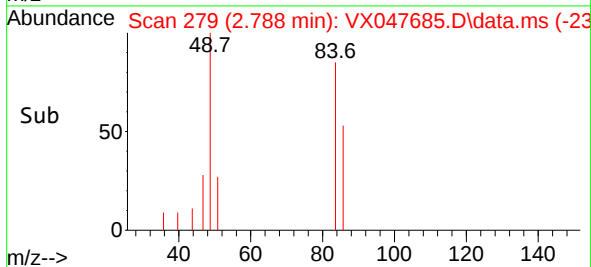
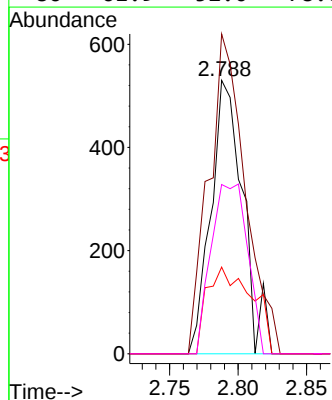
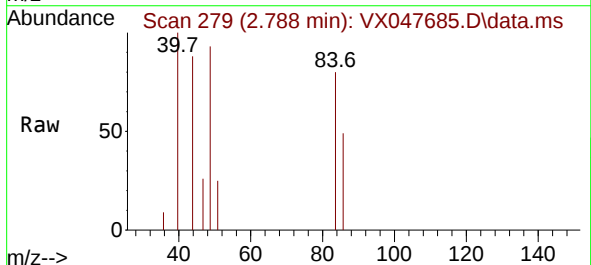
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

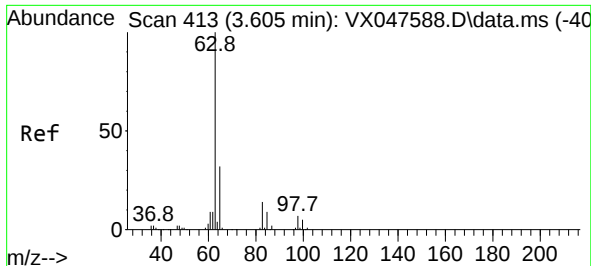
Tgt Ion: 73 Resp: 4591  
Ion Ratio Lower Upper  
73 100  
57 19.6 17.4 26.2



#20  
Methylene Chloride  
Concen: 0.324 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Tgt Ion: 84 Resp: 861  
Ion Ratio Lower Upper  
84 100  
49 117.0 108.6 162.8  
51 31.7 32.6 48.8#  
86 61.9 52.0 78.0

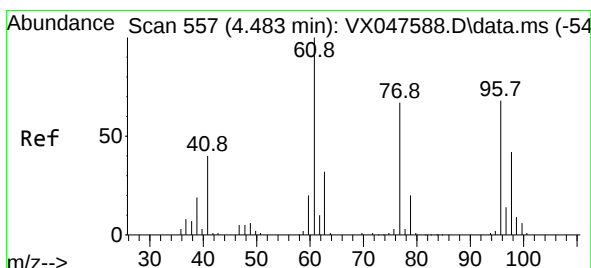
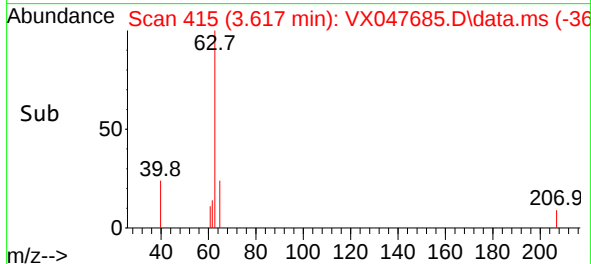
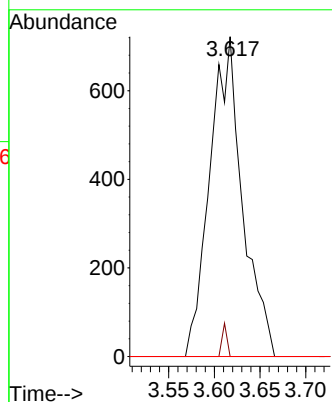
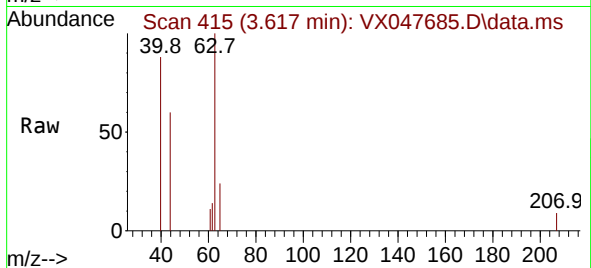




#24  
 1,1-Dichloroethane  
 Concen: 0.392 ug/l  
 RT: 3.617 min Scan# 413  
 Delta R.T. 0.012 min  
 Lab File: VX047685.D  
 Acq: 19 Sep 2025 18:22

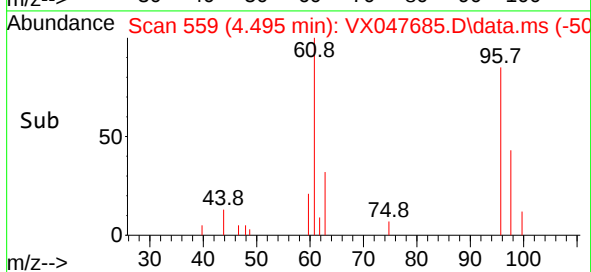
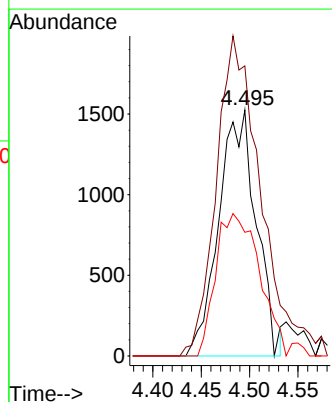
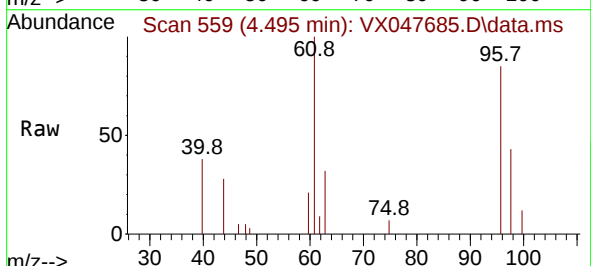
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP05-20250911

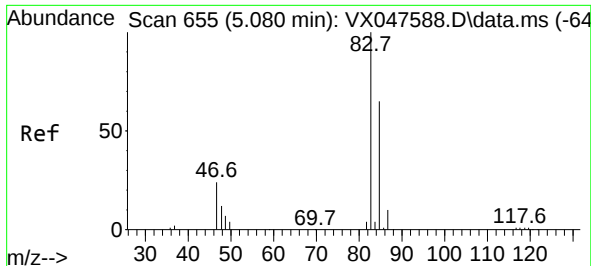
Tgt Ion: 63 Resp: 1794  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.8 11.2#  
 100 0.0 2.3 6.9#



#27  
 cis-1,2-Dichloroethene  
 Concen: 1.446 ug/l  
 RT: 4.495 min Scan# 559  
 Delta R.T. 0.012 min  
 Lab File: VX047685.D  
 Acq: 19 Sep 2025 18:22

Tgt Ion: 96 Resp: 4109  
 Ion Ratio Lower Upper  
 96 100  
 61 155.0 0.0 303.2  
 98 67.4 0.0 127.8





#30

Chloroform

Concen: 0.267 ug/l

RT: 5.074 min Scan# 615

Delta R.T. -0.006 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

Instrument :

MSVOA\_X

ClientSampleId :

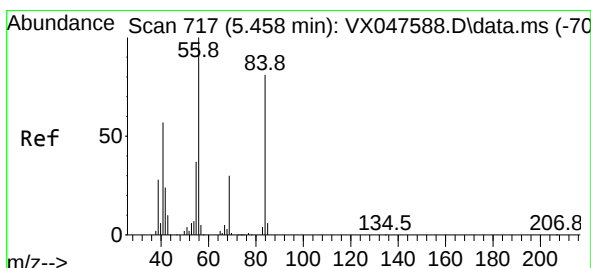
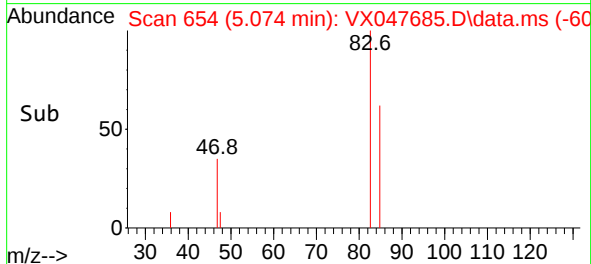
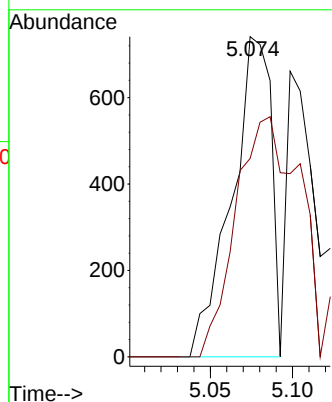
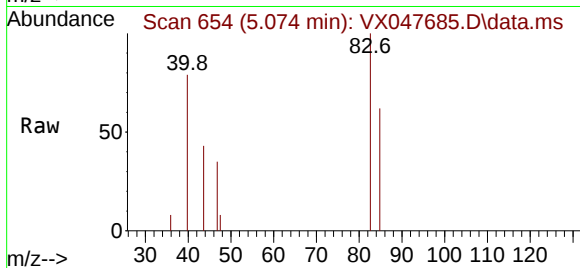
DUP05-20250911

Tgt Ion: 83 Resp: 1237

Ion Ratio Lower Upper

83 100

85 61.9 51.8 77.6



#31

Cyclohexane

Concen: 1.066 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

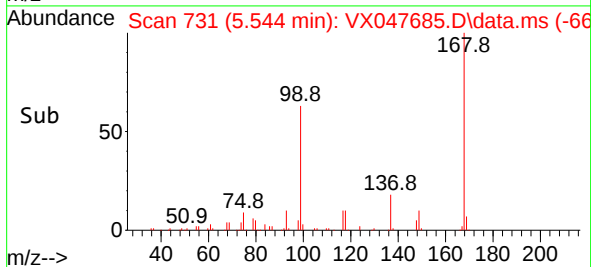
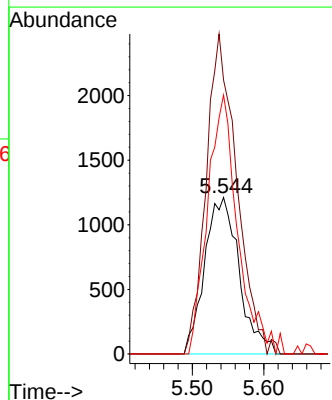
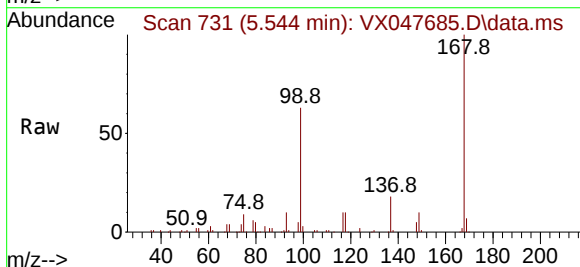
Tgt Ion: 56 Resp: 4068

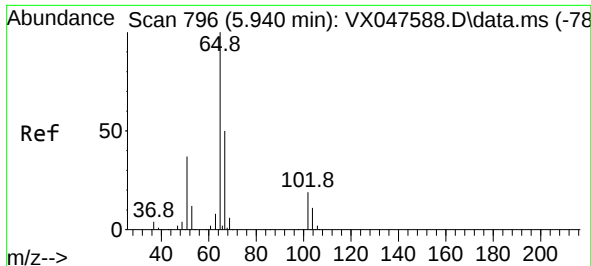
Ion Ratio Lower Upper

56 100

69 175.0 23.8 35.8#

84 165.3 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 49.873 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

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ClientSampleId :

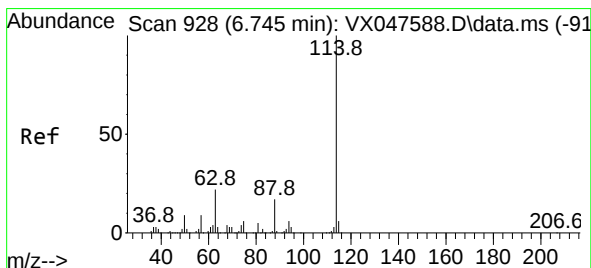
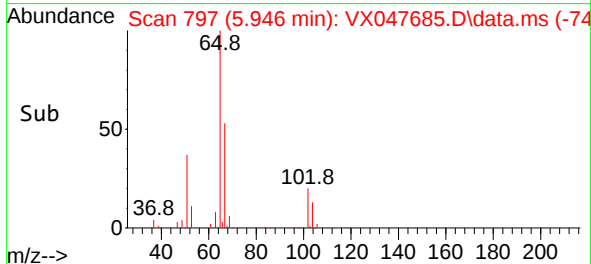
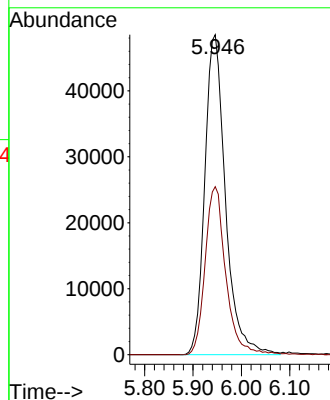
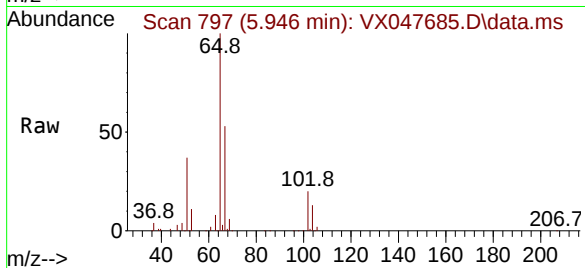
DUP05-20250911

Tgt Ion: 65 Resp: 144009

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

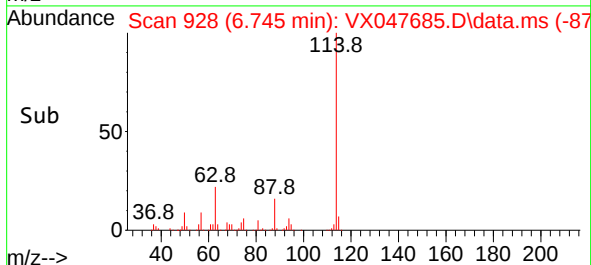
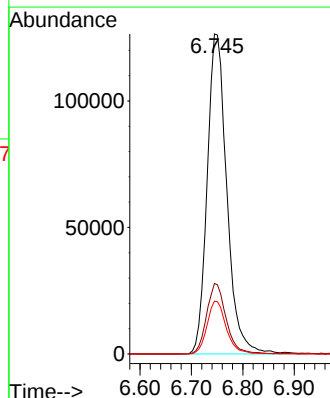
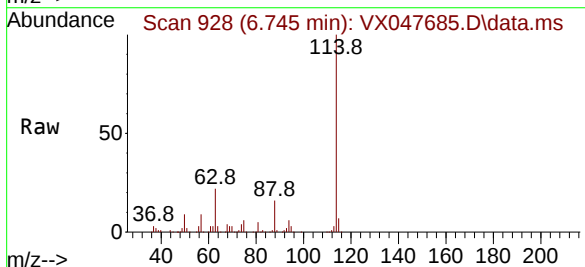
Tgt Ion: 114 Resp: 335366

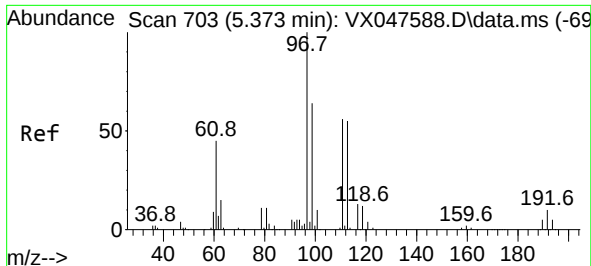
Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.0

88 16.5 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.017 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

Instrument :

MSVOA\_X

ClientSampleId :

DUP05-20250911

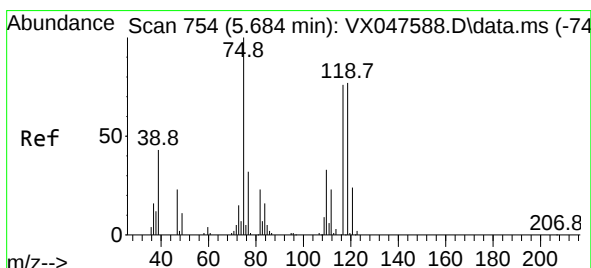
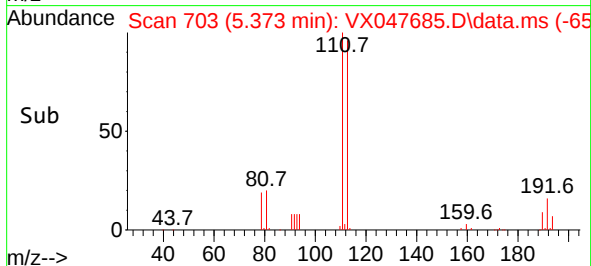
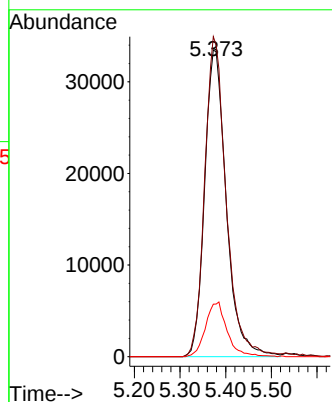
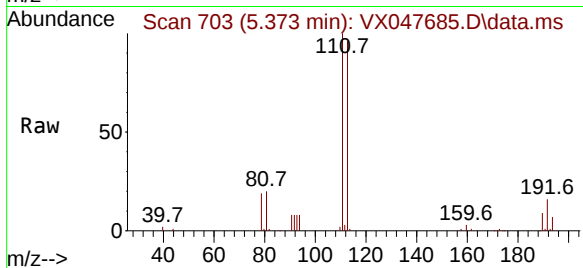
Tgt Ion:113 Resp: 110247

Ion Ratio Lower Upper

113 100

111 103.2 80.9 121.3

192 17.7 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.624 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

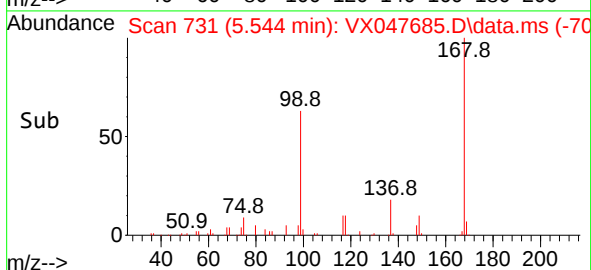
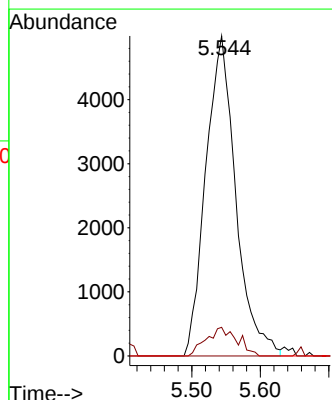
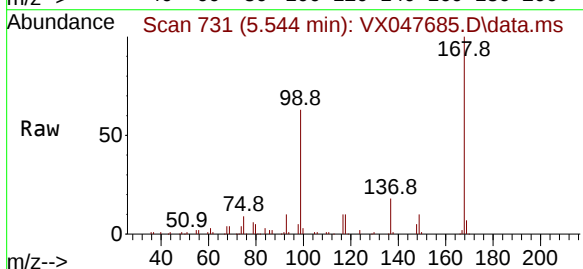
Tgt Ion: 75 Resp: 15198

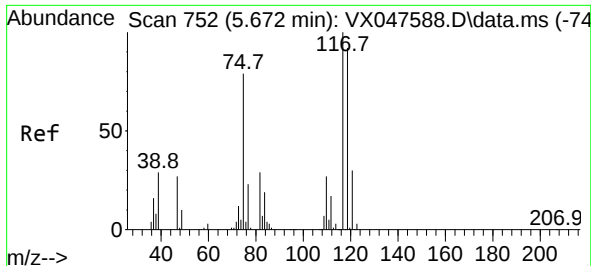
Ion Ratio Lower Upper

75 100

110 9.2 16.7 50.1#

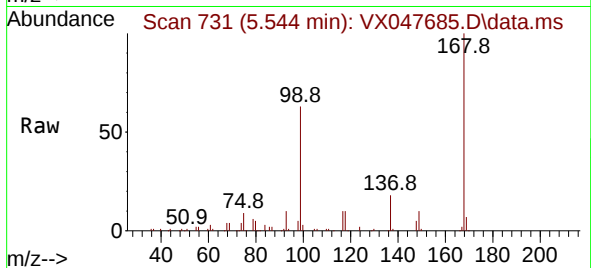
77 0.0 24.3 36.5#



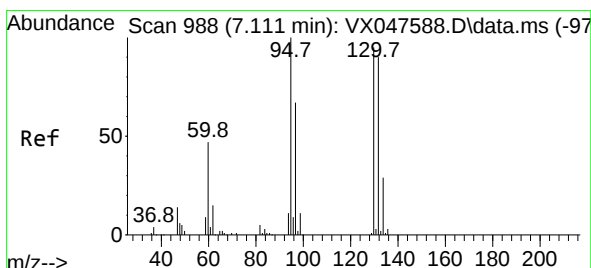
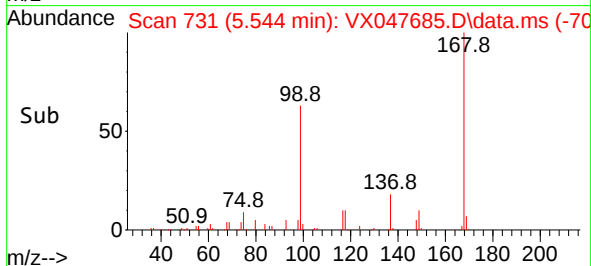
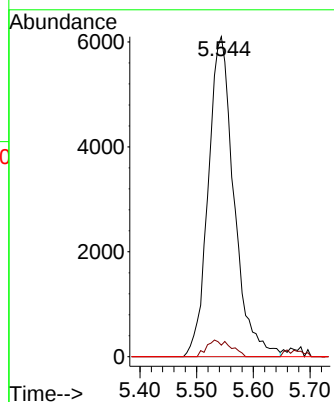


#38  
Carbon Tetrachloride  
Concen: 5.382 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

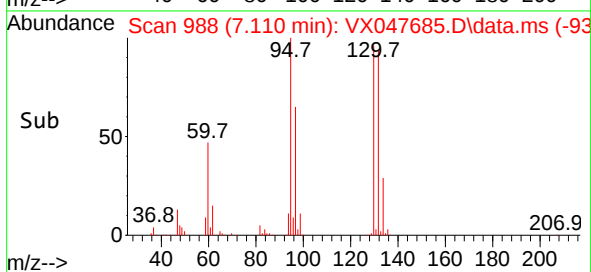
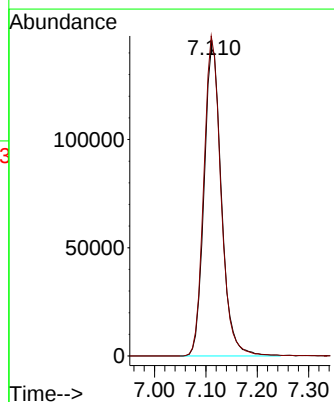
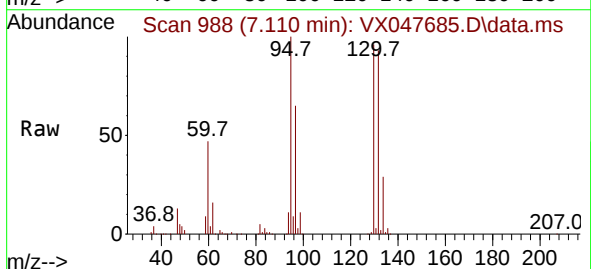


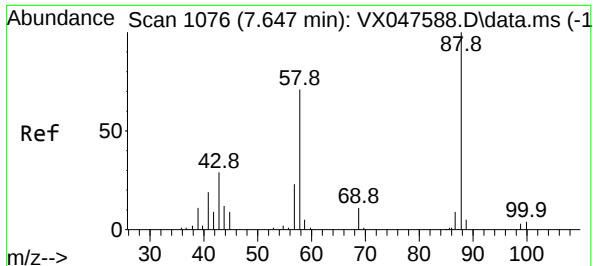
Tgt Ion:117 Resp: 19220  
Ion Ratio Lower Upper  
117 100  
119 3.6 73.4 110.2#  
121 0.0 23.8 35.6#



#44  
Trichloroethene  
Concen: 139.813 ug/l  
RT: 7.110 min Scan# 988  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Tgt Ion:130 Resp: 337410  
Ion Ratio Lower Upper  
130 100  
95 104.1 0.0 210.8





#49

1,4-Dioxane

Concen: 15.007 ug/l

RT: 7.665 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX047685.D

Acq: 19 Sep 2025 18:22

Instrument :

MSVOA\_X

ClientSampleId :

DUP05-20250911

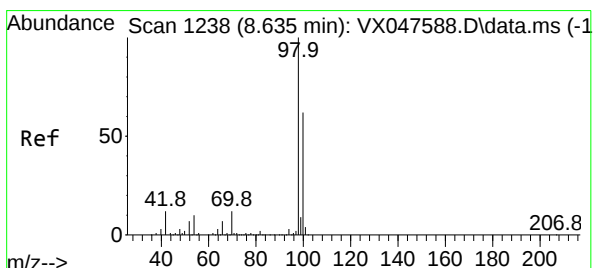
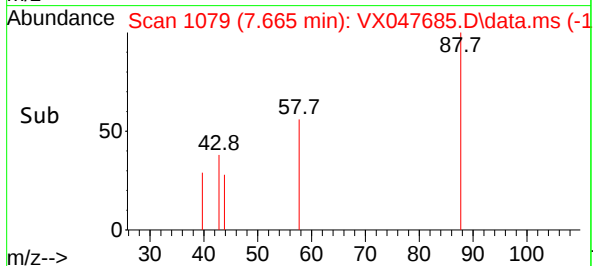
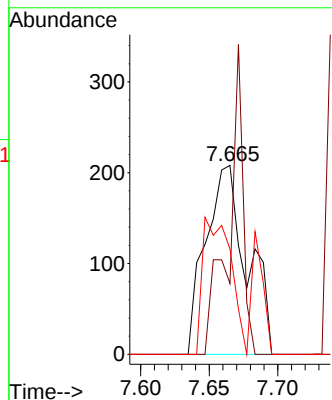
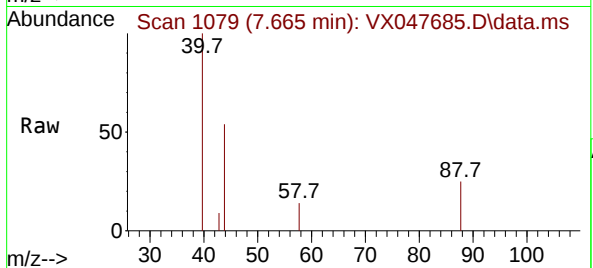
Tgt Ion: 88 Resp: 436

Ion Ratio Lower Upper

88 100

43 57.3 30.2 45.2#

58 17.9 59.5 89.3#



#50

Toluene-d8

Concen: 47.892 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX047685.D

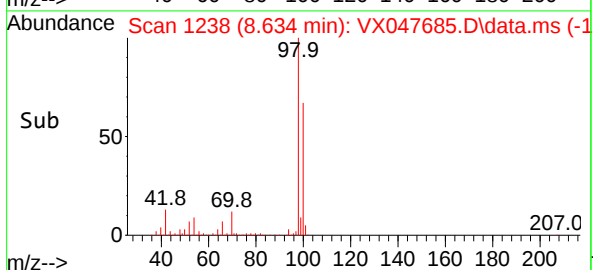
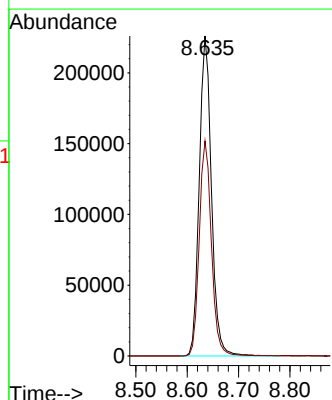
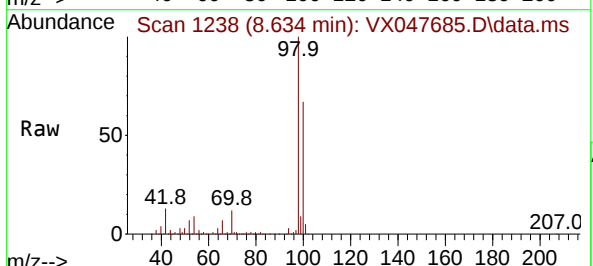
Acq: 19 Sep 2025 18:22

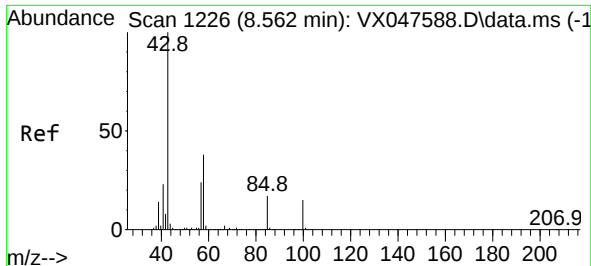
Tgt Ion: 98 Resp: 372718

Ion Ratio Lower Upper

98 100

100 67.1 53.0 79.4

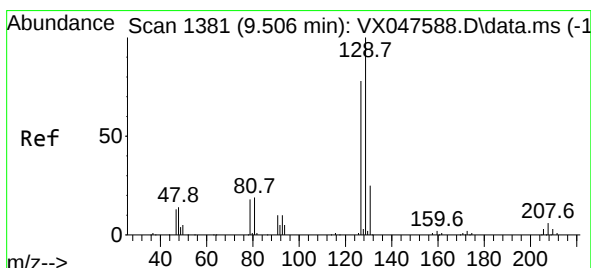
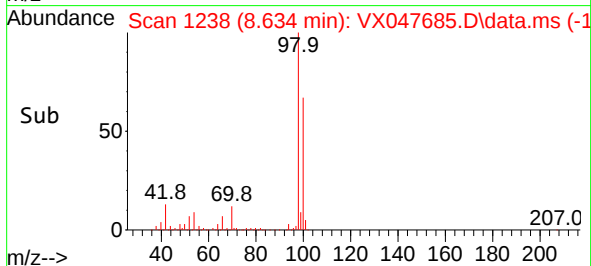
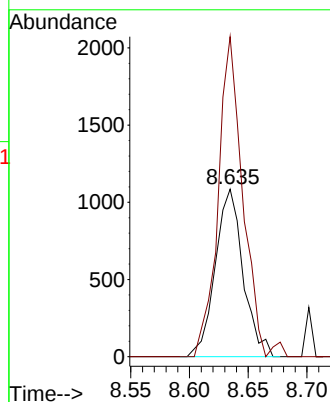
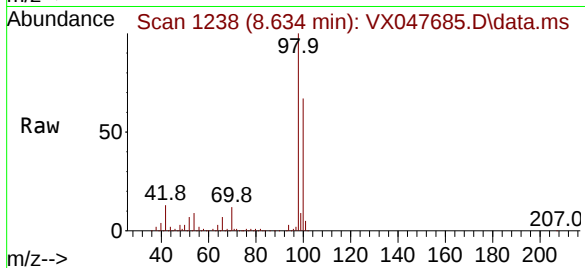




#51  
4-Methyl-2-Pentanone  
Concen: 0.559 ug/l  
RT: 8.634 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

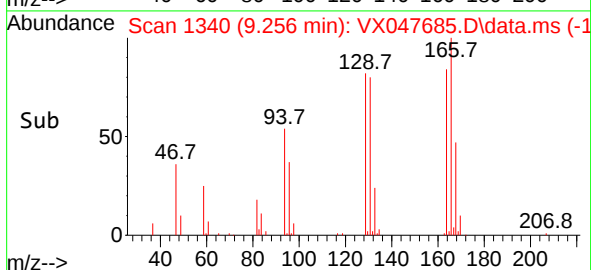
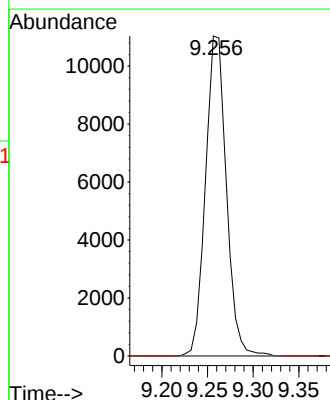
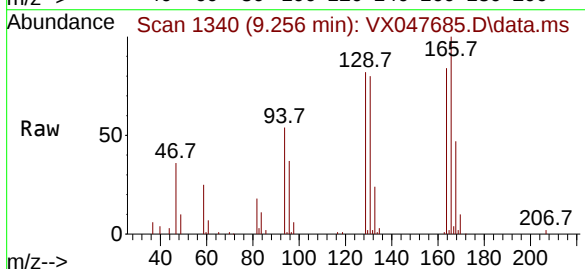
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

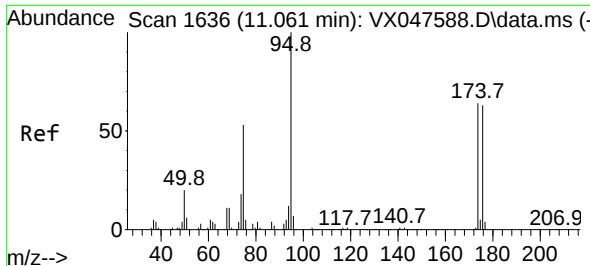
Tgt Ion: 43 Resp: 1788  
Ion Ratio Lower Upper  
43 100  
58 168.2 30.3 45.5#



#60  
Dibromochloromethane  
Concen: 6.408 ug/l  
RT: 9.256 min Scan# 1340  
Delta R.T. -0.250 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Tgt Ion: 129 Resp: 17509  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

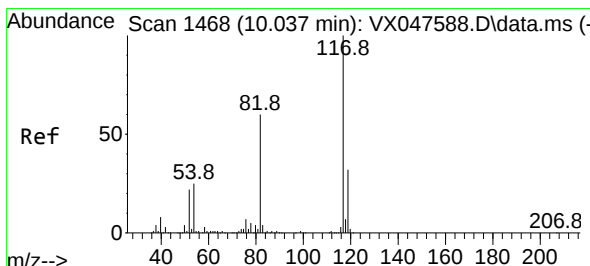
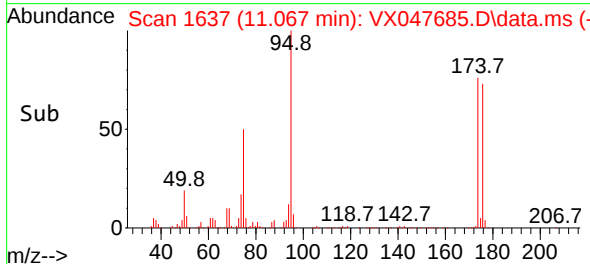
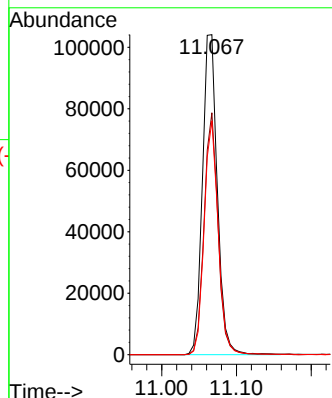
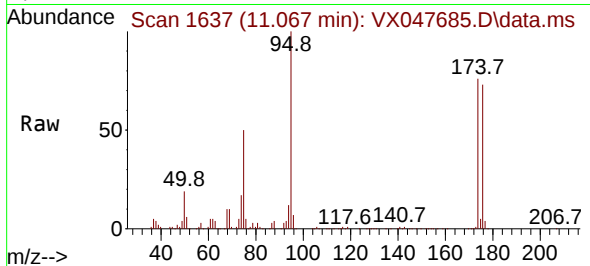




#62  
4-Bromofluorobenzene  
Concen: 48.862 ug/l  
RT: 11.067 min Scan# 1  
Delta R.T. 0.006 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

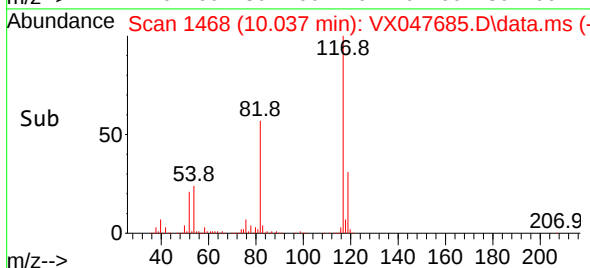
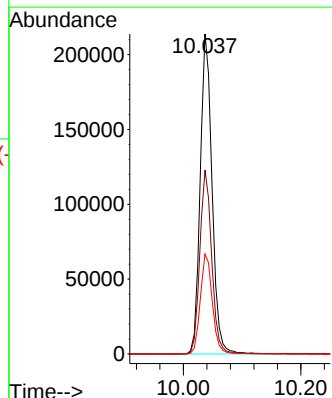
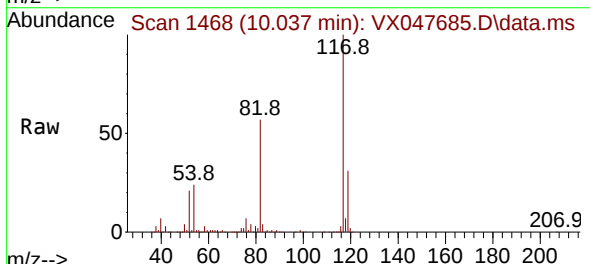
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

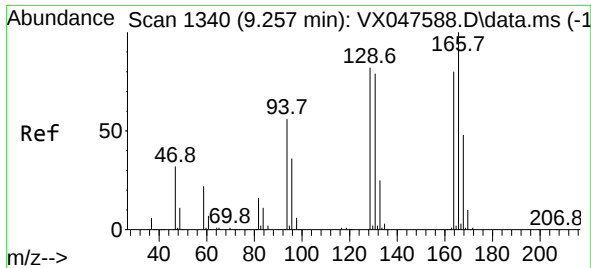
Tgt Ion: 95 Resp: 144318  
Ion Ratio Lower Upper  
95 100  
174 70.6 0.0 141.6  
176 68.9 0.0 138.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.037 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Tgt Ion: 117 Resp: 298999  
Ion Ratio Lower Upper  
117 100  
82 57.4 47.8 71.6  
119 31.3 25.2 37.8

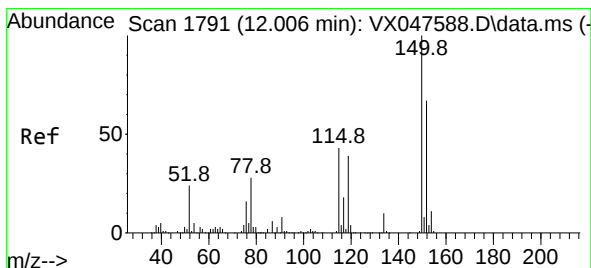
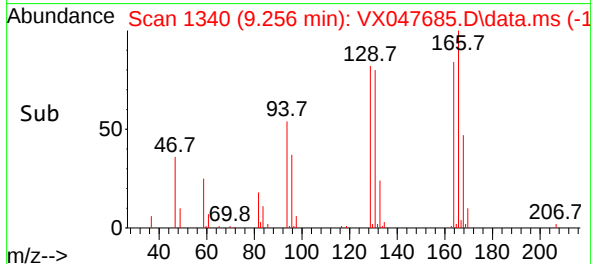
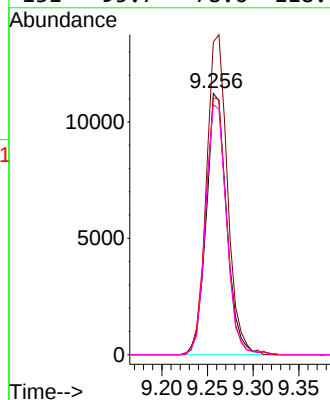
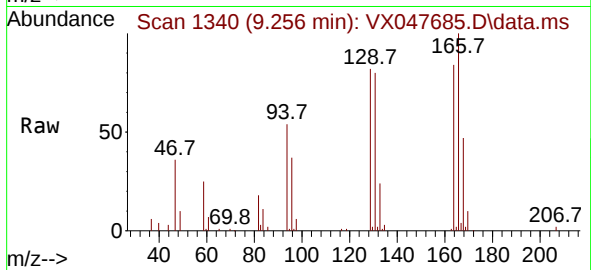




#64  
Tetrachloroethene  
Concen: 8.982 ug/l  
RT: 9.256 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

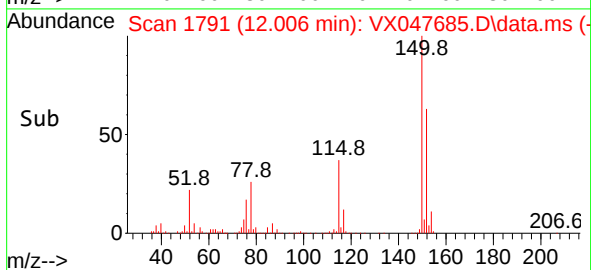
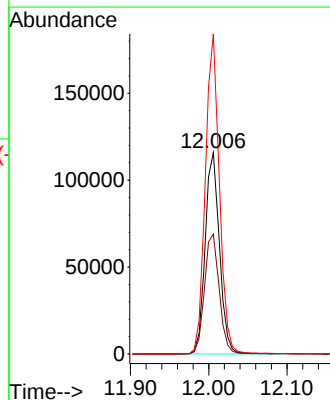
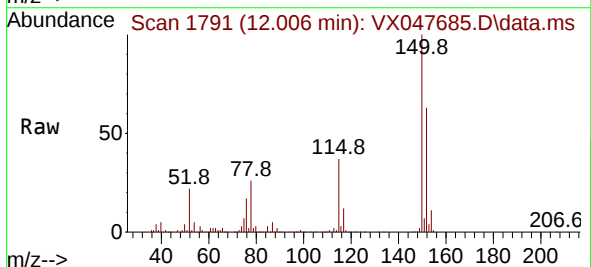
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

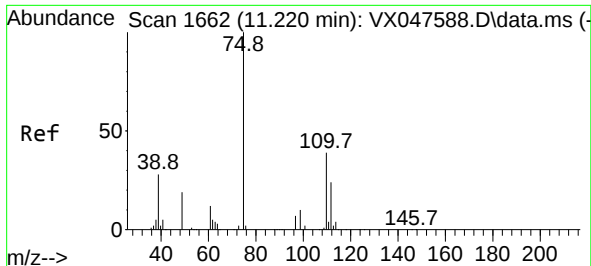
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:164 | Resp: | 17507 |       |
| Ion         | Ratio | Lower | Upper |
| 164         | 100   |       |       |
| 166         | 119.7 | 100.2 | 150.2 |
| 129         | 98.3  | 81.8  | 122.6 |
| 131         | 95.7  | 78.6  | 118.0 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:152 | Resp: | 146680 |       |
| Ion         | Ratio | Lower  | Upper |
| 152         | 100   |        |       |
| 115         | 61.5  | 44.9   | 134.5 |
| 150         | 156.2 | 0.0    | 352.0 |

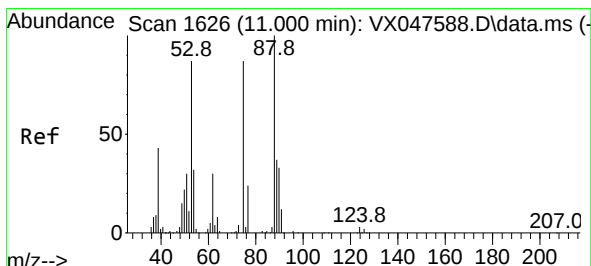
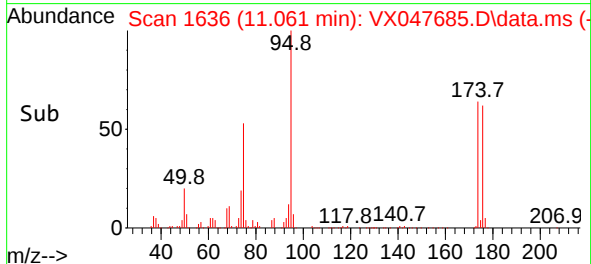
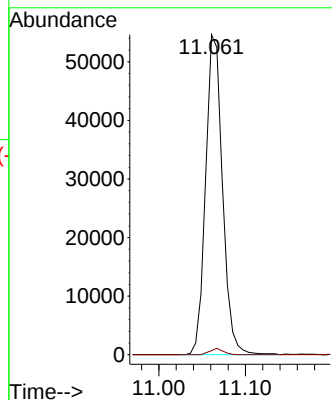
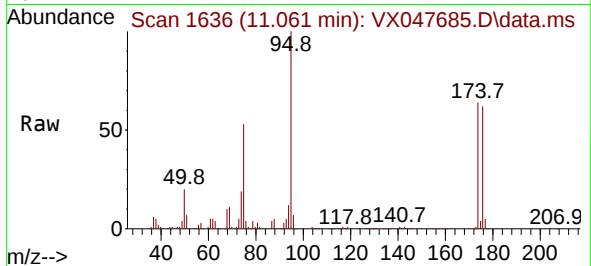




#76  
1,2,3-Trichloropropane  
Concen: 24.922 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.159 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20250911

Tgt Ion: 75 Resp: 74014  
Ion Ratio Lower Upper  
75 100  
77 1.5 18.8 56.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.555 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. 0.061 min  
Lab File: VX047685.D  
Acq: 19 Sep 2025 18:22

Tgt Ion: 75 Resp: 74014  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.4 125.2#  
89 0.0 36.3 54.5#

