

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091925\  
 Data File : VX047684.D  
 Acq On : 19 Sep 2025 18:01  
 Operator : JC/MD  
 Sample : Q3097-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP04-20250911

Quant Time: Sep 20 00:36:34 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

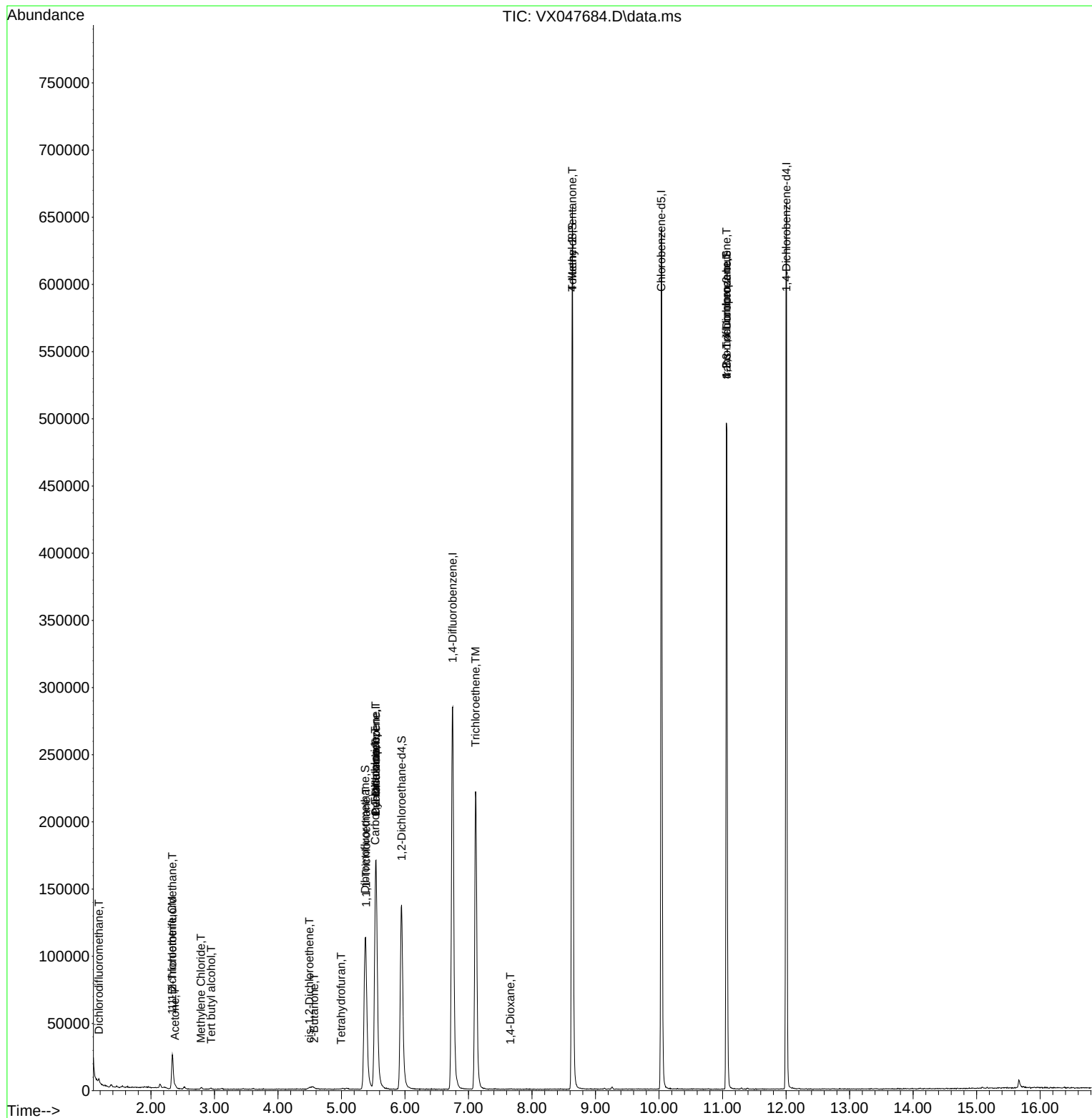
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 172337   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.751  | 114   | 315489   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.037 | 117   | 287627   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006 | 152   | 140501   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.946  | 65    | 147719   | 53.850   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 107.700% |          |
| 35) Dibromofluoromethane      | 5.373  | 113   | 111279   | 52.593   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 105.180% |          |
| 50) Toluene-d8                | 8.634  | 98    | 386055   | 52.731   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 105.460% |          |
| 62) 4-Bromofluorobenzene      | 11.061 | 95    | 146653   | 52.781   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 105.560% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.179  | 85    | 1605     | 0.899    | ug/l       | 96       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337  | 101   | 10091    | 5.062    | ug/l       | 97       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 148      | 0.484    | ug/l #     | 72       |
| 12) 1,1-Dichloroethene        | 2.331  | 96    | 1059     | 0.517    | ug/l       | 85       |
| 16) Acetone                   | 2.380  | 43    | 2409     | 2.020    | ug/l #     | 1        |
| 20) Methylene Chloride        | 2.788  | 84    | 657      | 0.260    | ug/l #     | 72       |
| 25) 2-Butanone                | 4.568  | 43    | 1071     | 0.720    | ug/l #     | 50       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 870      | 0.322    | ug/l       | 91       |
| 29) Tetrahydrofuran           | 4.995  | 42    | 191      | 0.213    | ug/l #     | 34       |
| 31) Cyclohexane               | 5.537  | 56    | 3710     | 1.023    | ug/l #     | 1        |
| 32) 1,1,1-Trichloroethane     | 5.385  | 97    | 1572     | 0.421    | ug/l #     | 51       |
| 36) 1,1-Dichloropropene       | 5.537  | 75    | 14999    | 4.851    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 5.531  | 117   | 18329    | 5.456    | ug/l #     | 18       |
| 44) Trichloroethene           | 7.110  | 130   | 94127    | 41.461   | ug/l       | 98       |
| 49) 1,4-Dioxane               | 7.659  | 88    | 81       | 2.964    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.634  | 43    | 1962     | 0.652    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 11.061 | 75    | 75985    | 26.711   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.061 | 75    | 75985    | 68.117   | ug/l #     | 8        |
| -----                         |        |       |          |          |            |          |

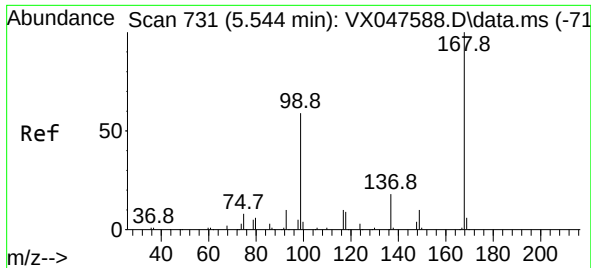
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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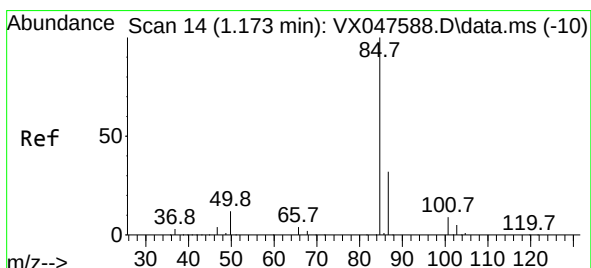
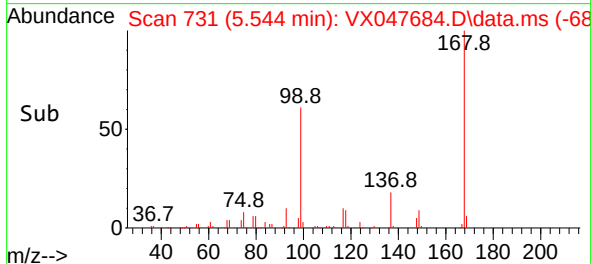
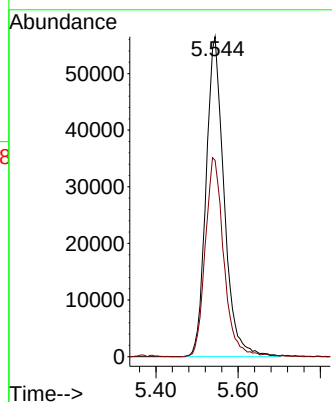
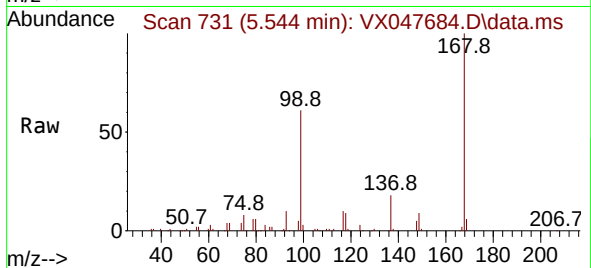




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

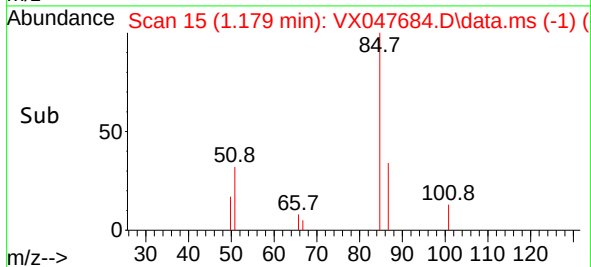
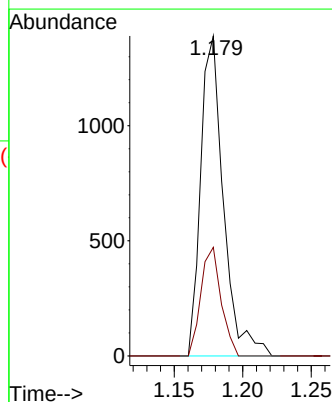
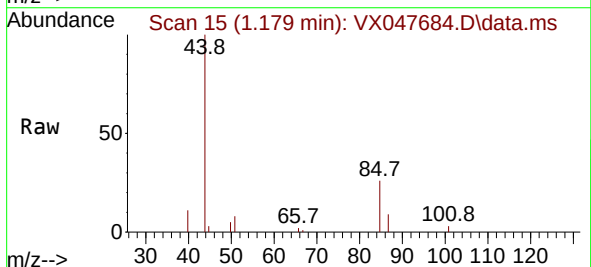
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

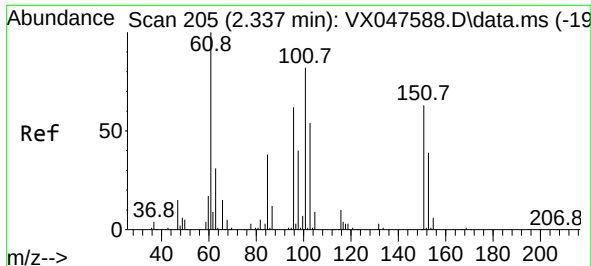
Tgt Ion:168 Resp: 172337  
Ion Ratio Lower Upper  
168 100  
99 61.4 48.8 73.2



#2  
Dichlorodifluoromethane  
Concen: 0.899 ug/l  
RT: 1.179 min Scan# 15  
Delta R.T. 0.006 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion: 85 Resp: 1605  
Ion Ratio Lower Upper  
85 100  
87 34.0 15.8 47.3

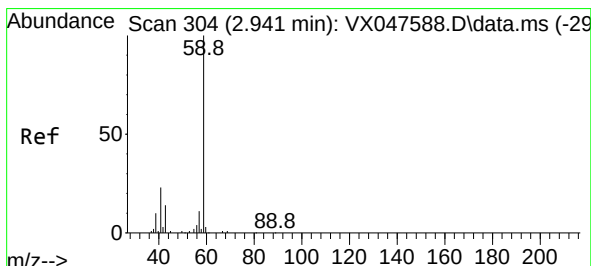
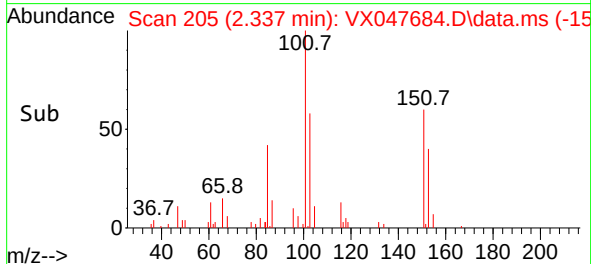
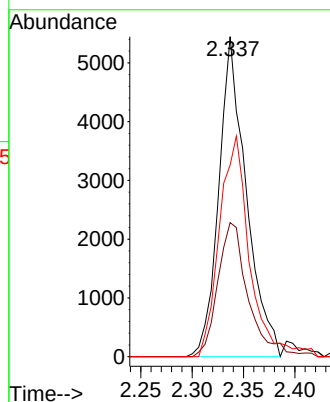
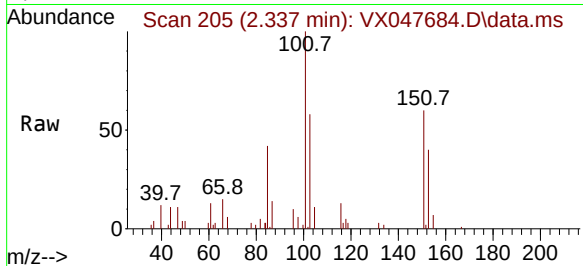




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.062 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

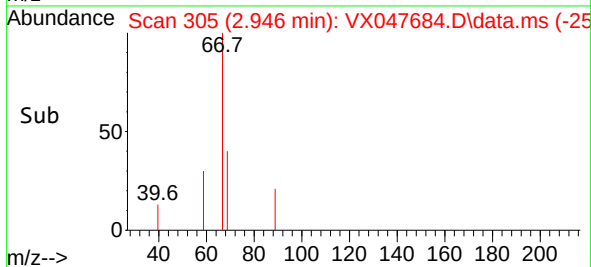
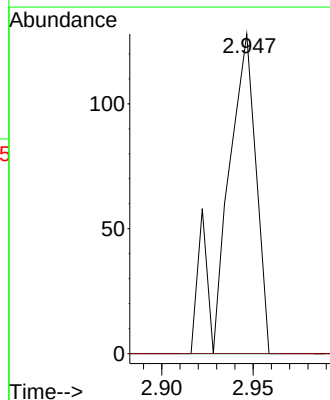
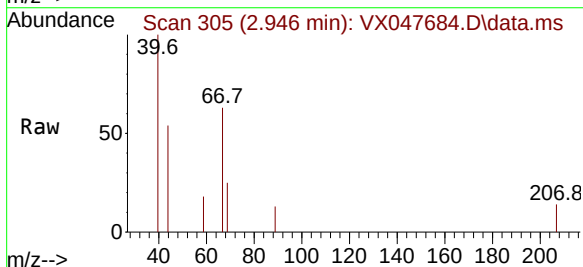
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

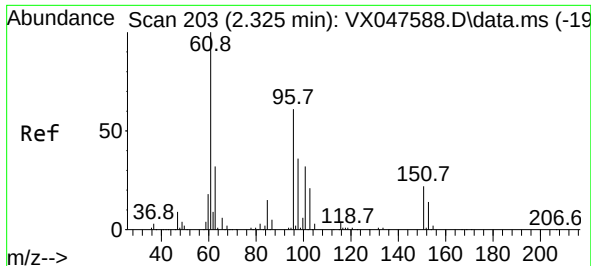
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 10091 |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 46.6  | 35.5  | 53.3  |
| 151      | 75.9  | 59.4  | 89.0  |



#11  
Tert butyl alcohol  
Concen: 0.484 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. 0.006 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

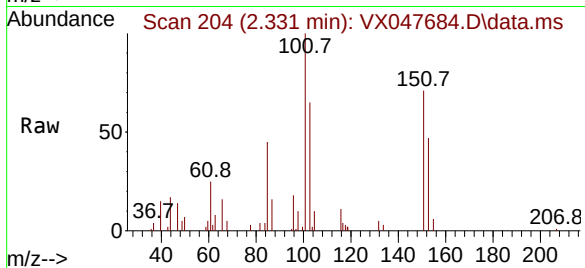
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 59    | Resp: | 148   |
| Ion      | Ratio | Lower | Upper |
| 59       | 100   |       |       |
| 57       | 0.0   | 8.3   | 12.5  |



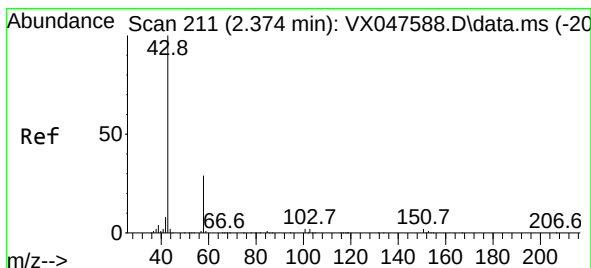
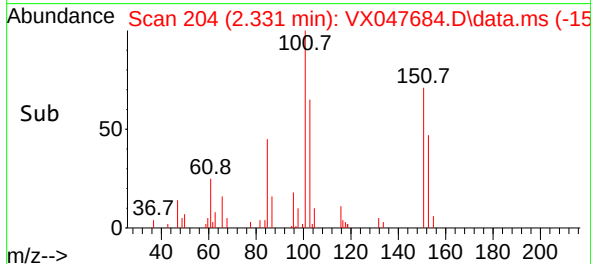
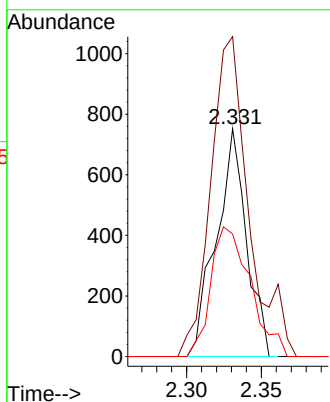


#12  
1,1-Dichloroethene  
Concen: 0.517 ug/l  
RT: 2.331 min Scan# 203  
Delta R.T. 0.006 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

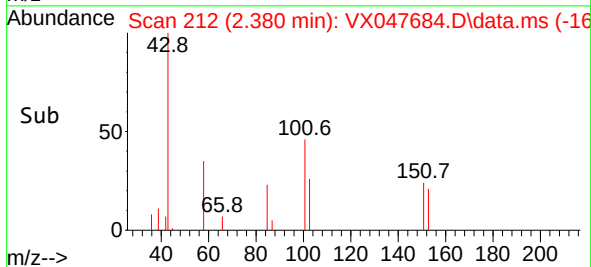
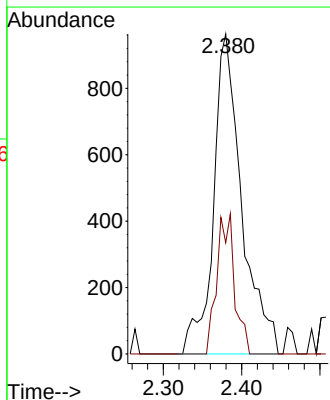
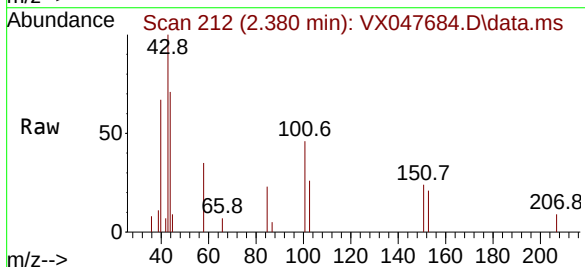


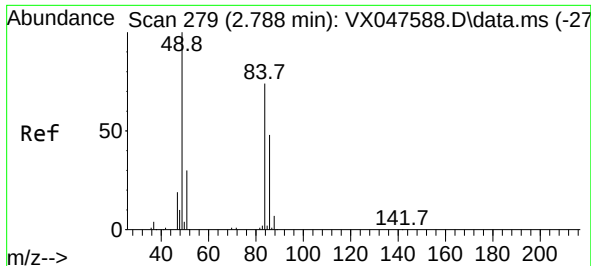
Tgt Ion: 96 Resp: 1059  
Ion Ratio Lower Upper  
96 100  
61 140.4 131.0 196.6  
98 53.9 47.7 71.5



#16  
Acetone  
Concen: 2.020 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion: 43 Resp: 2409  
Ion Ratio Lower Upper  
43 100  
58 100.3 23.4 35.0#

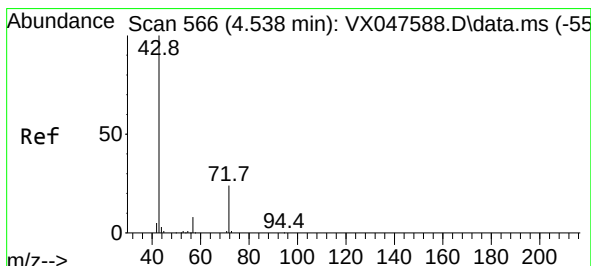
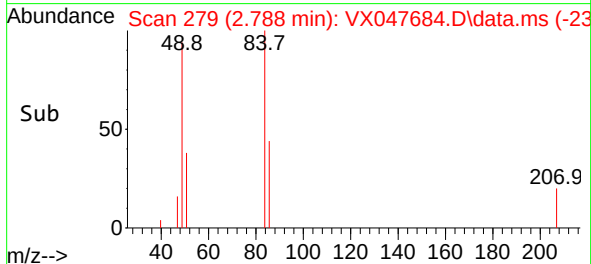
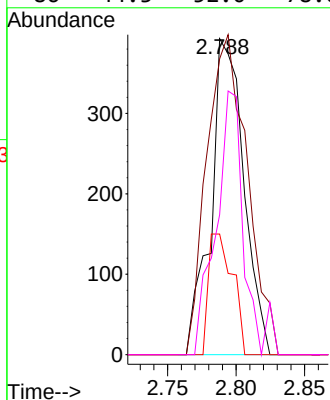
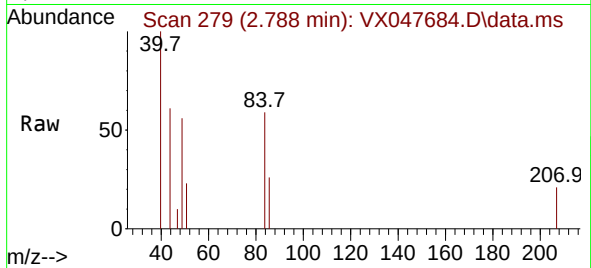




#20  
Methylene Chloride  
Concen: 0.260 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

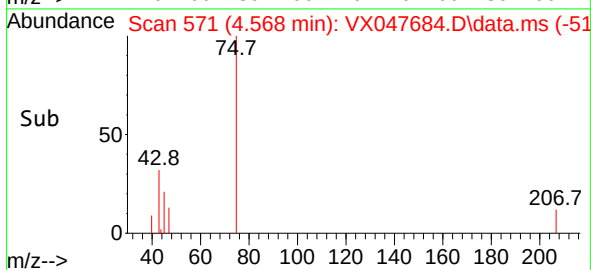
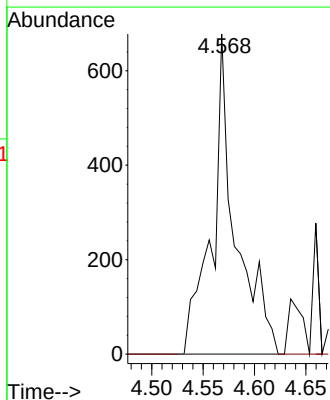
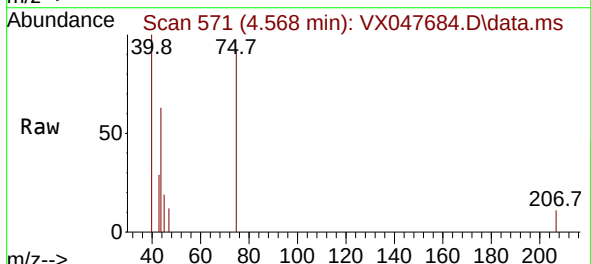
Instrument :  
MSVOA\_X  
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DUP04-20250911

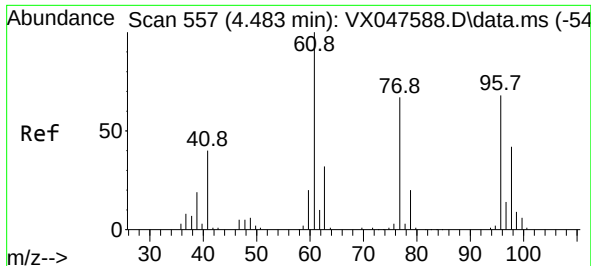
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 657    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 93.6  | 108.6 | 162.8# |
| 51       | 38.2  | 32.6  | 48.8   |
| 86       | 44.3  | 52.0  | 78.0#  |



#25  
2-Butanone  
Concen: 0.720 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.030 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1071  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 20.1  | 30.1# |





#27

cis-1,2-Dichloroethene

Concen: 0.322 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX047684.D

Acq: 19 Sep 2025 18:01

Instrument :

MSVOA\_X

ClientSampleId :

DUP04-20250911

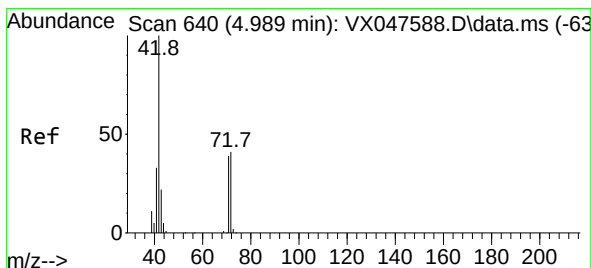
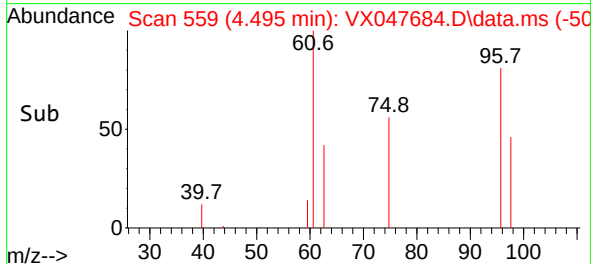
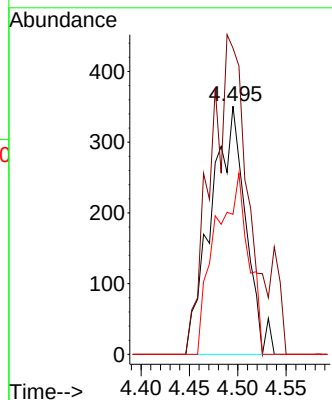
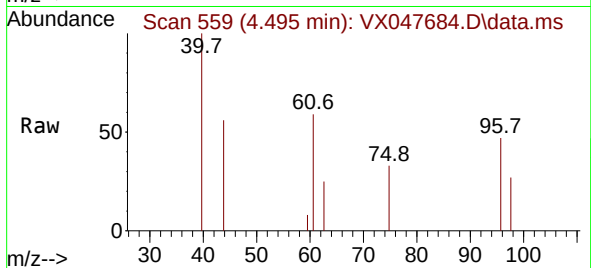
Tgt Ion: 96 Resp: 870

Ion Ratio Lower Upper

96 100

61 139.0 0.0 303.2

98 70.0 0.0 127.8



#29

Tetrahydrofuran

Concen: 0.213 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX047684.D

Acq: 19 Sep 2025 18:01

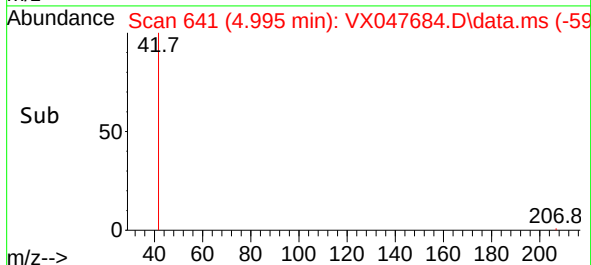
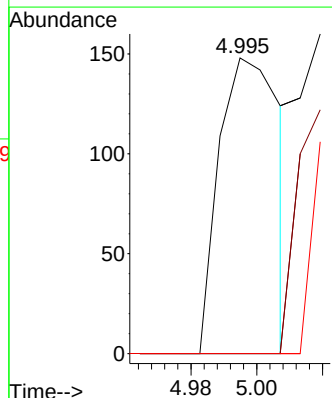
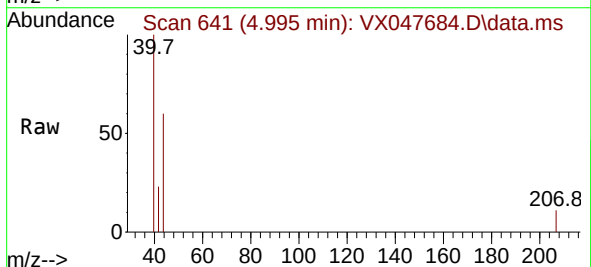
Tgt Ion: 42 Resp: 191

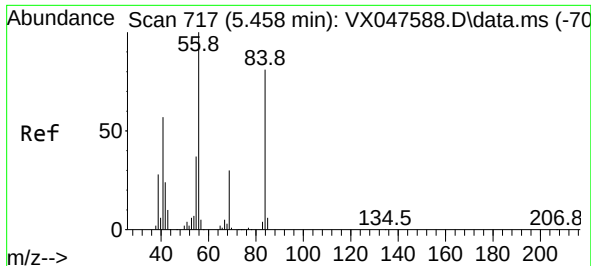
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

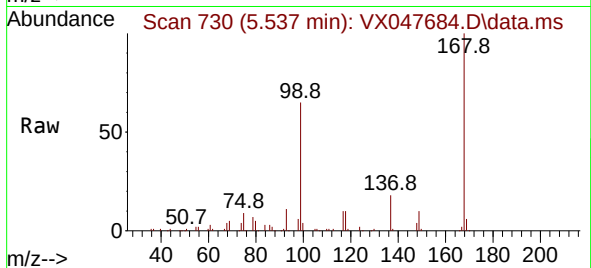
71 0.0 31.9 47.9#



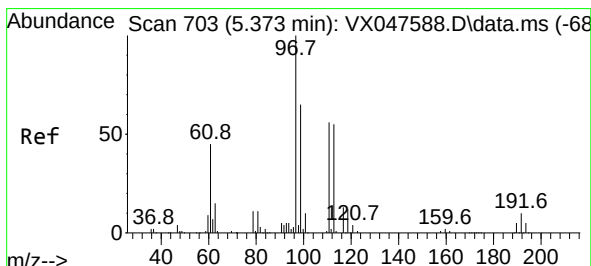
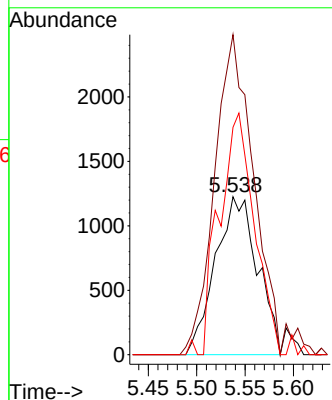
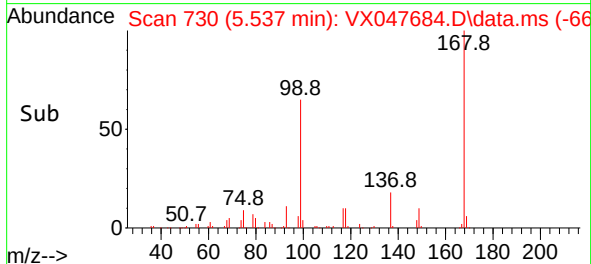


#31  
Cyclohexane  
Concen: 1.023 ug/l  
RT: 5.537 min Scan# 717  
Delta R.T. 0.079 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

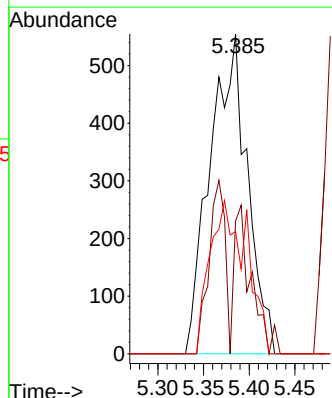
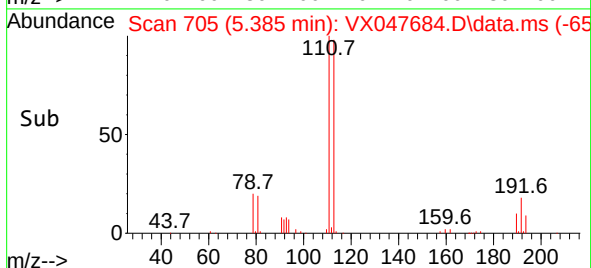
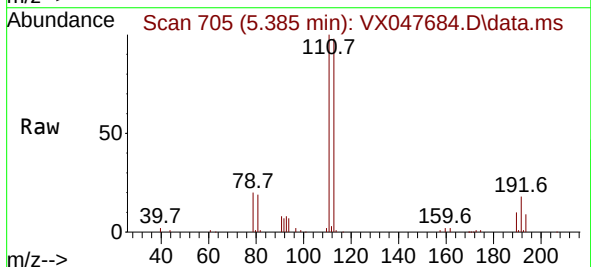


Tgt Ion: 56 Resp: 3710  
Ion Ratio Lower Upper  
56 100  
69 202.5 23.8 35.8#  
84 143.9 64.6 97.0#

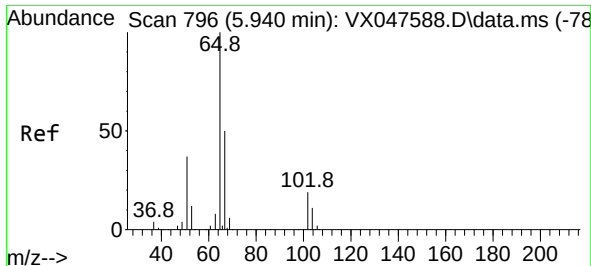


#32  
1,1,1-Trichloroethane  
Concen: 0.421 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.012 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion: 97 Resp: 1572  
Ion Ratio Lower Upper  
97 100  
99 0.0 50.6 76.0#  
61 47.5 35.8 53.8







#33

1,2-Dichloroethane-d4

Concen: 53.850 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047684.D

Acq: 19 Sep 2025 18:01

Instrument :

MSVOA\_X

ClientSampleId :

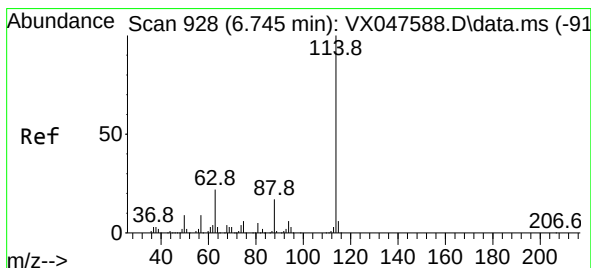
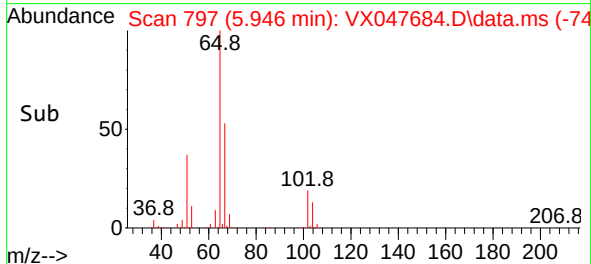
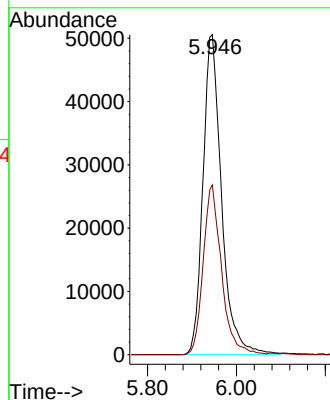
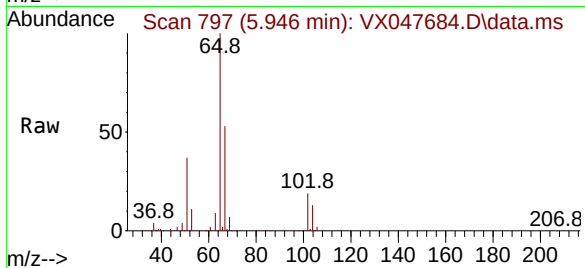
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Tgt Ion: 65 Resp: 147719

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047684.D

Acq: 19 Sep 2025 18:01

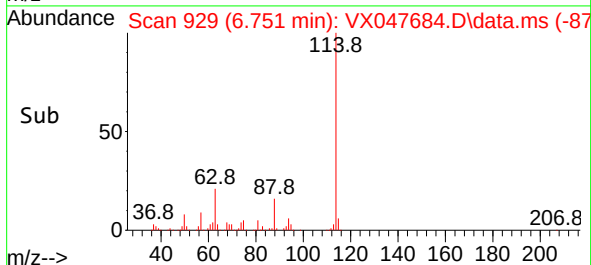
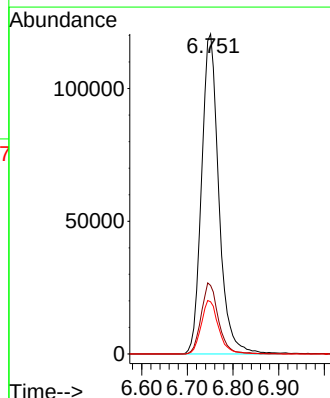
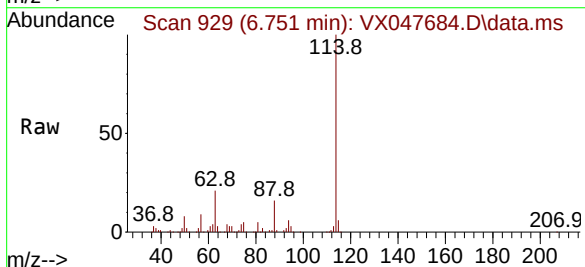
Tgt Ion: 114 Resp: 315489

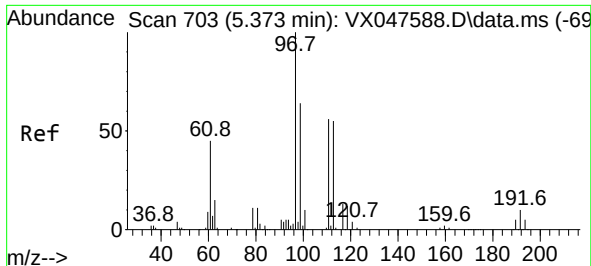
Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.0

88 16.3 0.0 34.2

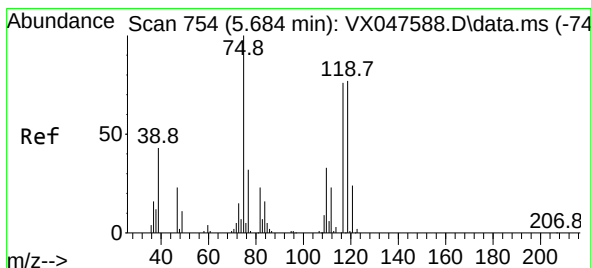
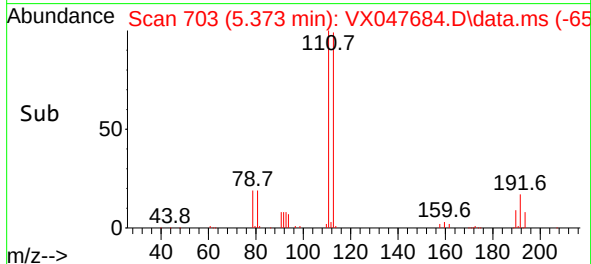
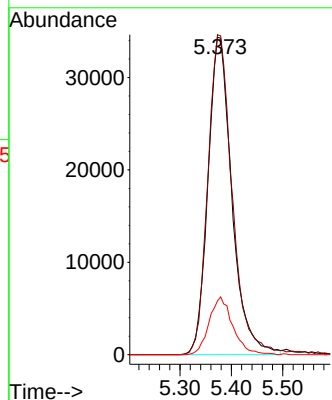
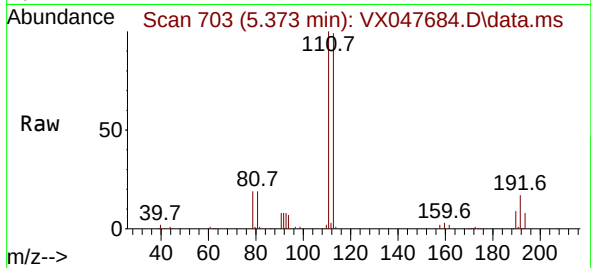




#35  
Dibromofluoromethane  
Concen: 52.593 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

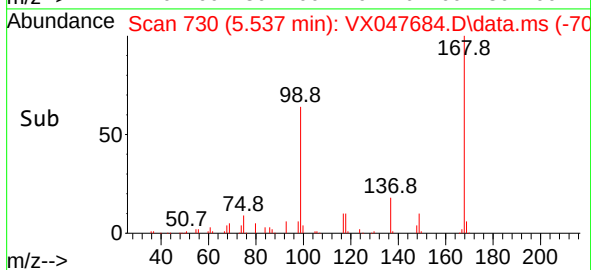
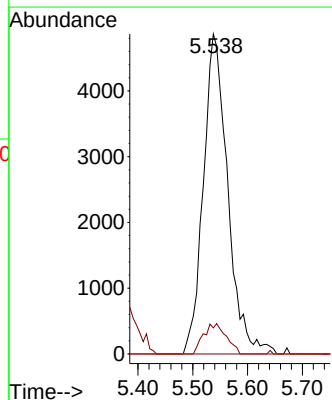
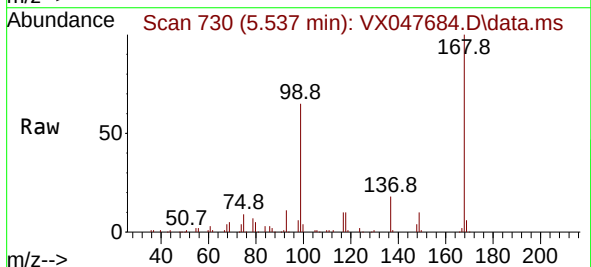
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

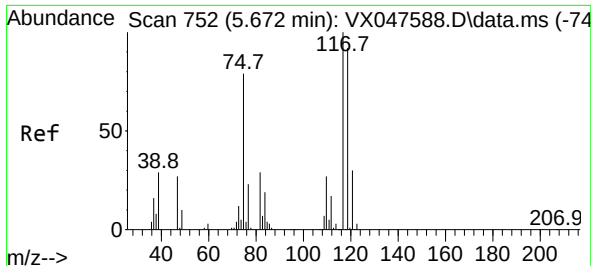
Tgt Ion:113 Resp: 111279  
Ion Ratio Lower Upper  
113 100  
111 102.6 80.9 121.3  
192 18.0 14.2 21.4



#36  
1,1-Dichloropropene  
Concen: 4.851 ug/l  
RT: 5.537 min Scan# 730  
Delta R.T. -0.147 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

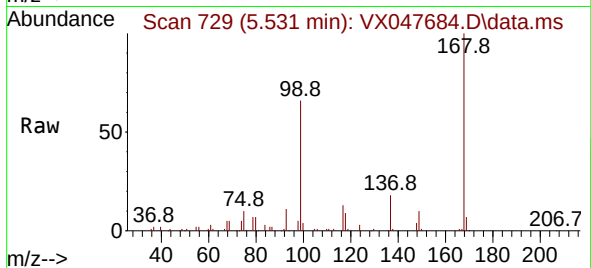
Tgt Ion: 75 Resp: 14999  
Ion Ratio Lower Upper  
75 100  
110 8.8 16.7 50.1#  
77 0.0 24.3 36.5#



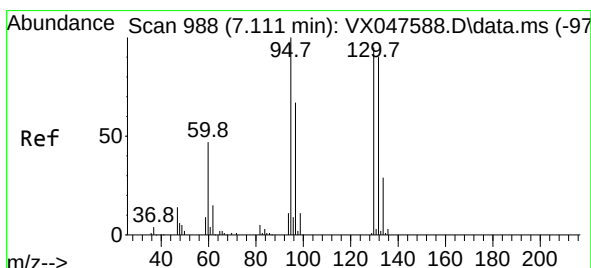
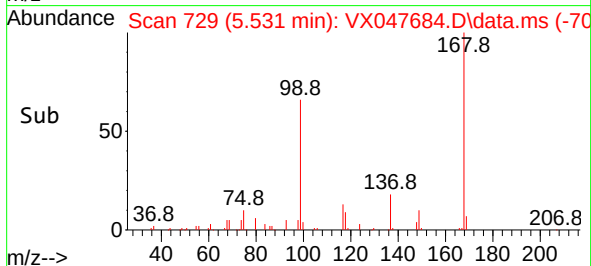
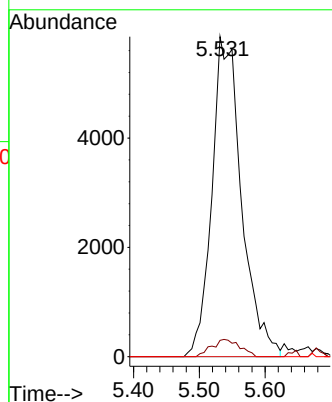


#38  
Carbon Tetrachloride  
Concen: 5.456 ug/l  
RT: 5.531 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

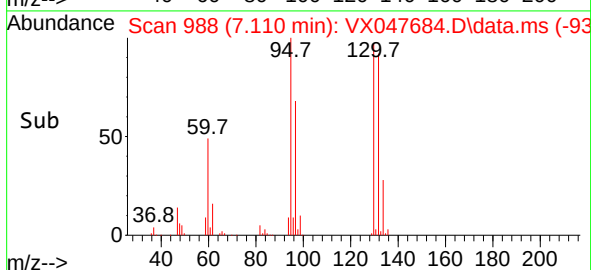
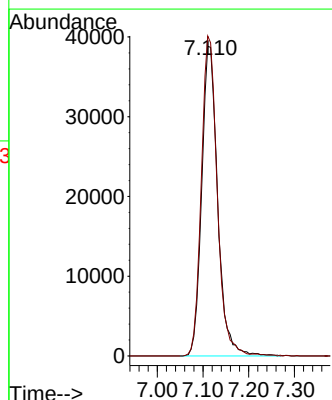
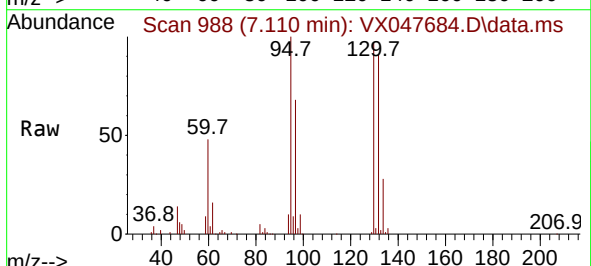


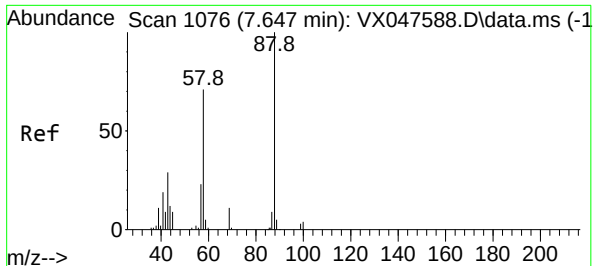
Tgt Ion:117 Resp: 18329  
Ion Ratio Lower Upper  
117 100  
119 5.1 73.4 110.2#  
121 0.0 23.8 35.6#



#44  
Trichloroethene  
Concen: 41.461 ug/l  
RT: 7.110 min Scan# 988  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion:130 Resp: 94127  
Ion Ratio Lower Upper  
130 100  
95 103.3 0.0 210.8





#49

1,4-Dioxane

Concen: 2.964 ug/l

RT: 7.659 min Scan# 1076

Delta R.T. 0.012 min

Lab File: VX047684.D

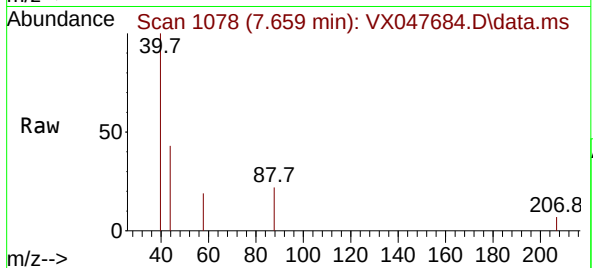
Acq: 19 Sep 2025 18:01

Instrument :

MSVOA\_X

ClientSampleId :

DUP04-20250911



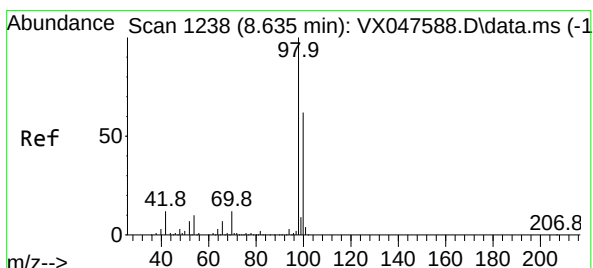
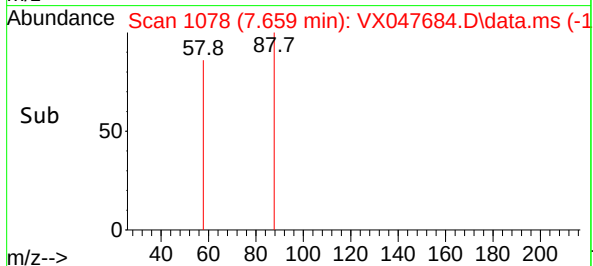
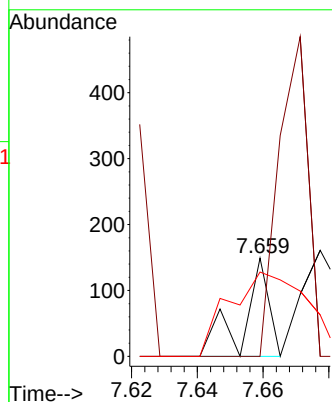
Tgt Ion: 88 Resp: 81

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.2#

58 280.2 59.5 89.3#



#50

Toluene-d8

Concen: 52.731 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX047684.D

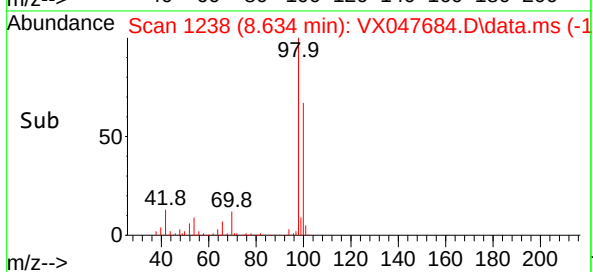
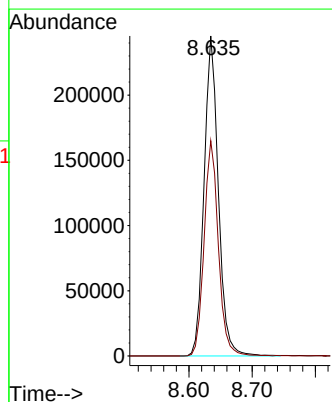
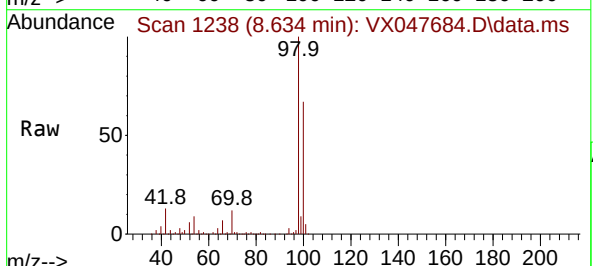
Acq: 19 Sep 2025 18:01

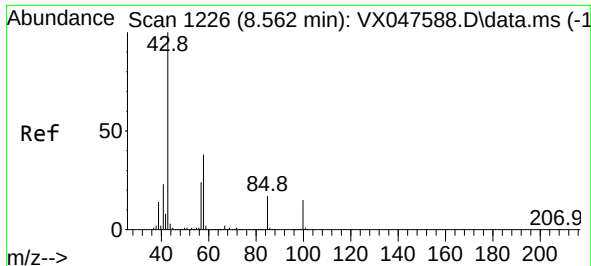
Tgt Ion: 98 Resp: 386055

Ion Ratio Lower Upper

98 100

100 67.1 53.0 79.4

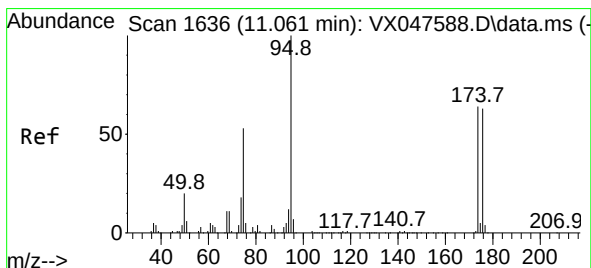
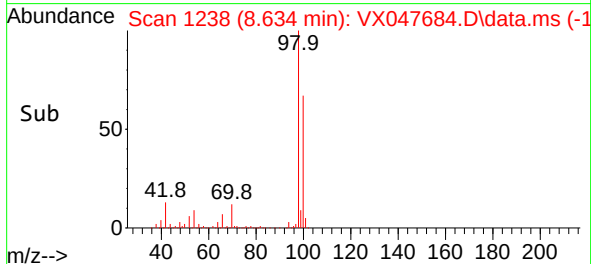
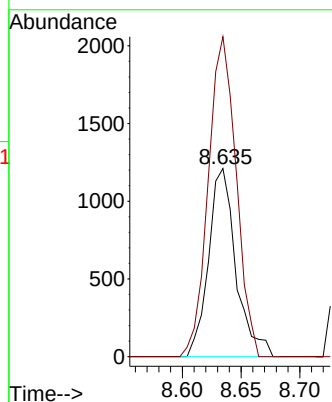
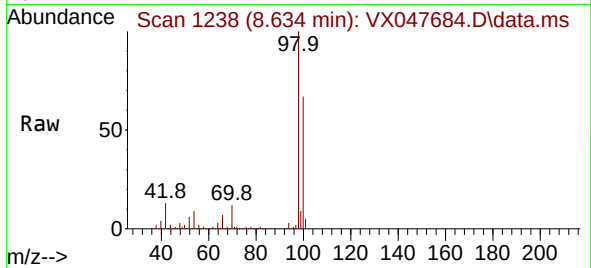




#51  
4-Methyl-2-Pentanone  
Concen: 0.652 ug/l  
RT: 8.634 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

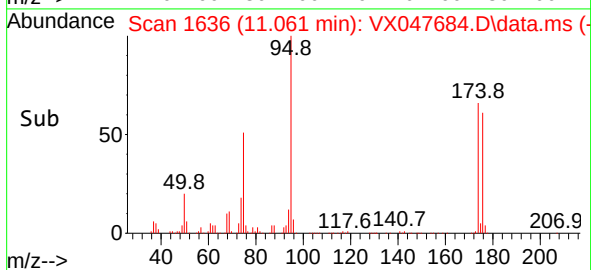
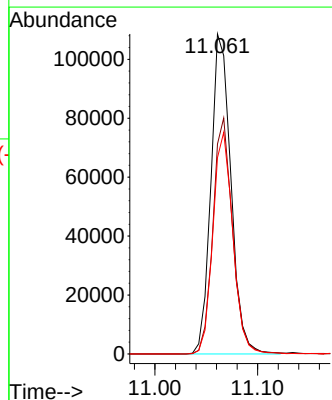
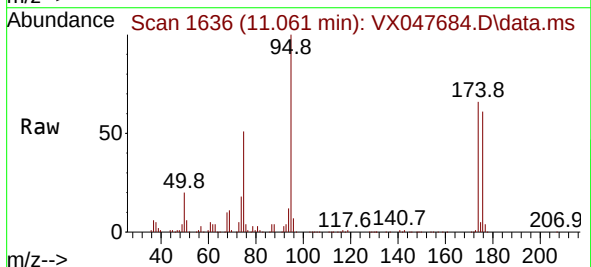
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

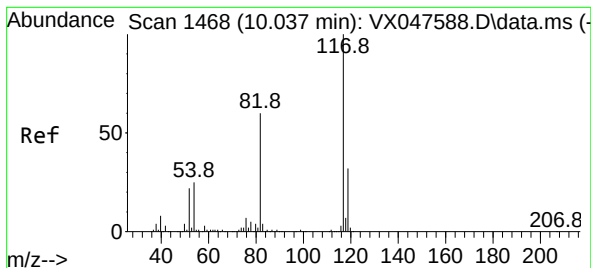
Tgt Ion: 43 Resp: 1962  
Ion Ratio Lower Upper  
43 100  
58 173.2 30.3 45.5#



#62  
4-Bromofluorobenzene  
Concen: 52.781 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion: 95 Resp: 146653  
Ion Ratio Lower Upper  
95 100  
174 72.4 0.0 141.6  
176 69.4 0.0 138.4

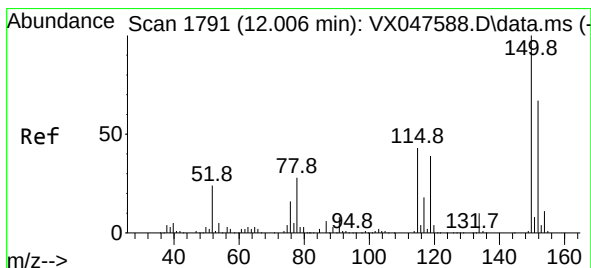
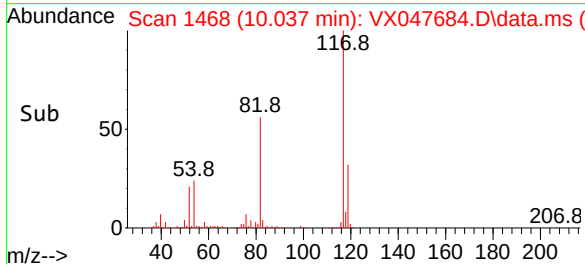
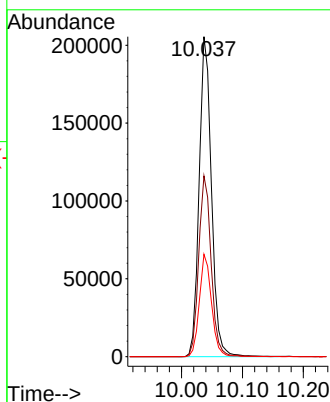
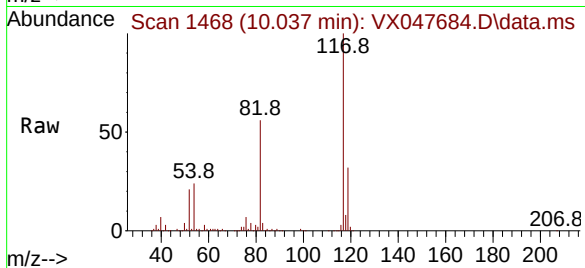




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.037 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

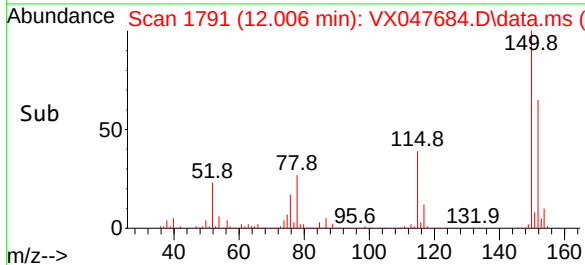
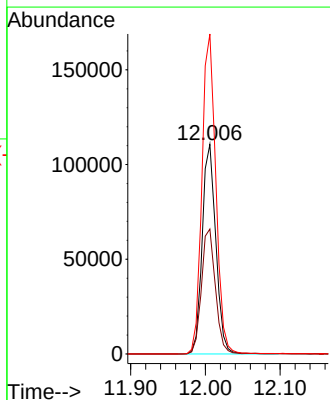
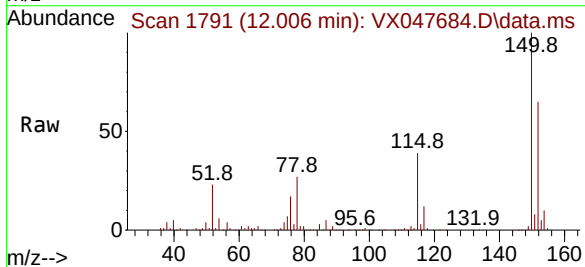
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

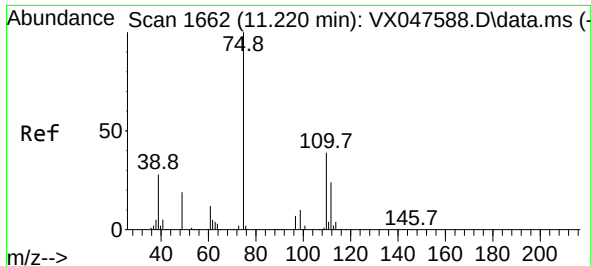
Tgt Ion:117 Resp: 287627  
Ion Ratio Lower Upper  
117 100  
82 56.5 47.8 71.6  
119 32.0 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion:152 Resp: 140501  
Ion Ratio Lower Upper  
152 100  
115 61.1 44.9 134.5  
150 155.3 0.0 352.0

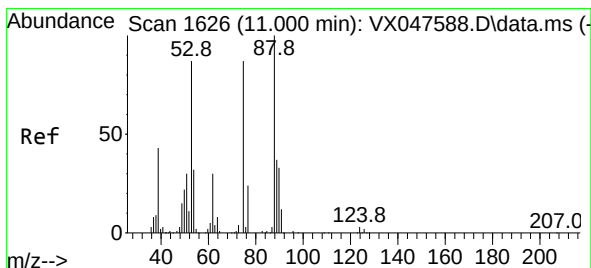
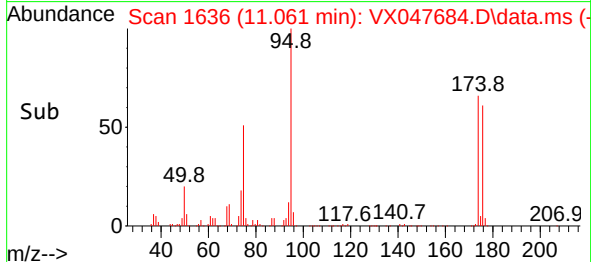
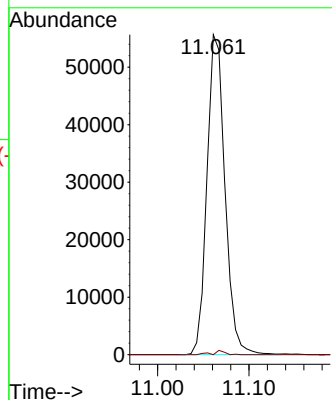
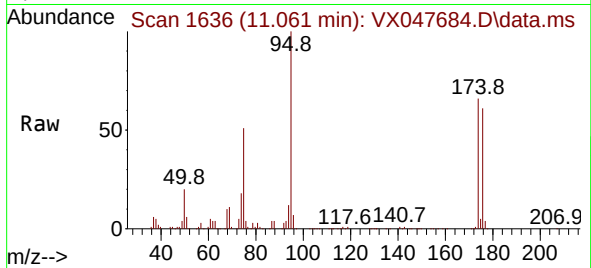




#76  
1,2,3-Trichloropropane  
Concen: 26.711 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. -0.159 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP04-20250911

Tgt Ion: 75 Resp: 75985  
Ion Ratio Lower Upper  
75 100  
77 0.9 18.8 56.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.117 ug/l  
RT: 11.061 min Scan# 1636  
Delta R.T. 0.061 min  
Lab File: VX047684.D  
Acq: 19 Sep 2025 18:01

Tgt Ion: 75 Resp: 75985  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.4 125.2#  
89 0.0 36.3 54.5#

