

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101525\
 Data File : VX048191.D
 Acq On : 15 Oct 2025 15:17
 Operator : JC/MD
 Sample : Q3348-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

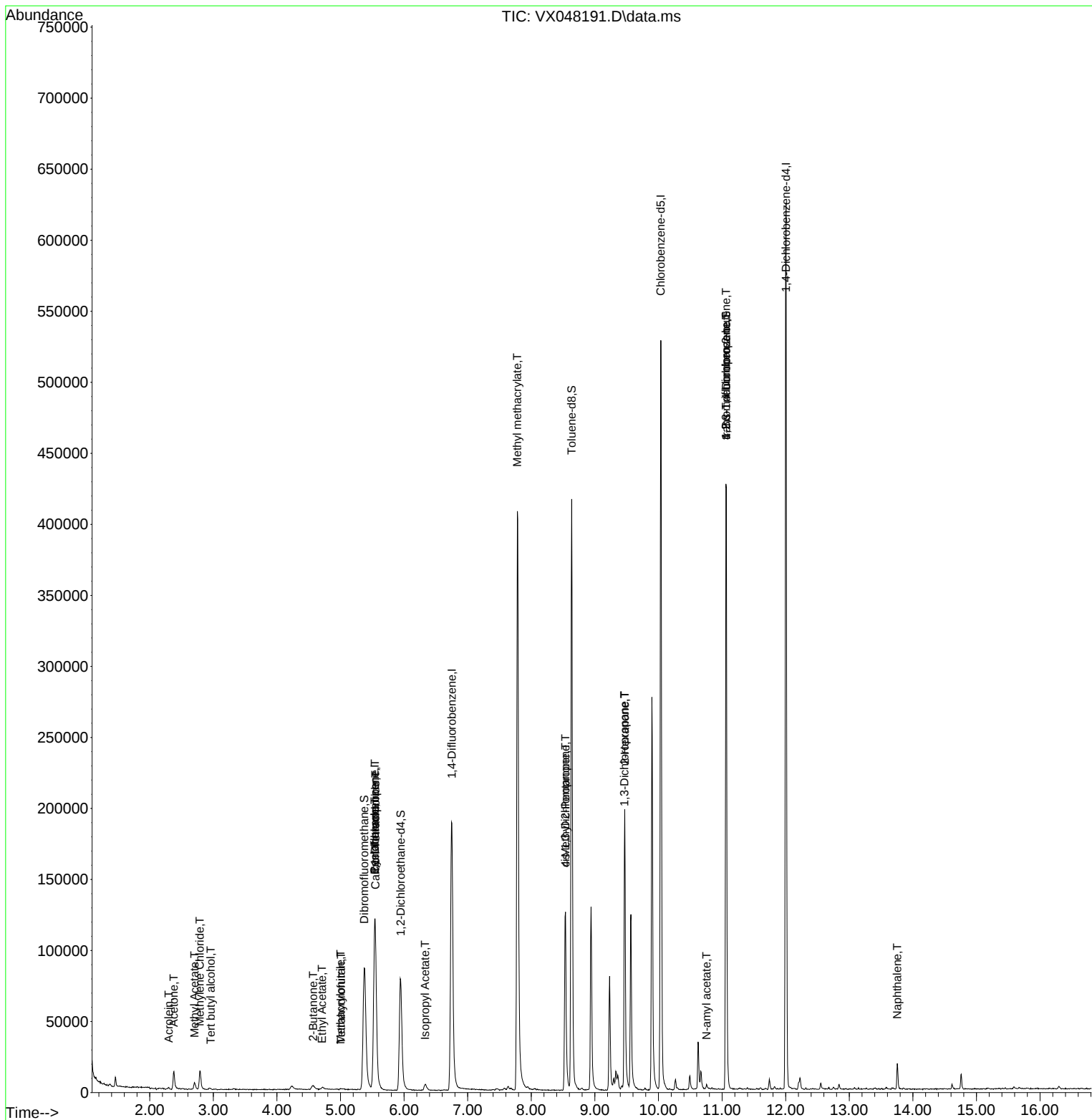
Quant Time: Oct 16 04:06:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

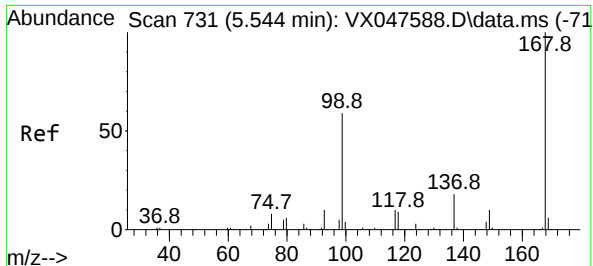
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	120180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	214794	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	247536	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	129128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	87903	45.951	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.900%		
35) Dibromofluoromethane	5.373	113	85871	59.611	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	119.220%		
50) Toluene-d8	8.635	98	252357	50.628	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	101.260%		
62) 4-Bromofluorobenzene	11.061	95	123663	65.371	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	130.740%#		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.959	59	577	2.708	ug/l #	72
13) Acrolein	2.300	56	66	0.336	ug/l #	14
16) Acetone	2.380	43	15190	18.262	ug/l	91
18) Methyl Acetate	2.703	43	6855	3.703	ug/l	100
20) Methylene Chloride	2.788	84	6401	3.636	ug/l	84
25) 2-Butanone	4.568	43	7115	6.858	ug/l	96
29) Tetrahydrofuran	5.007	42	501	0.803	ug/l #	46
31) Cyclohexane	5.538	56	2581	1.021	ug/l #	13
36) 1,1-Dichloropropene	5.544	75	10493	4.985	ug/l #	52
37) Ethyl Acetate	4.708	43	3570	1.584	ug/l #	89
38) Carbon Tetrachloride	5.550	117	13300	5.815	ug/l #	18
41) Methacrylonitrile	5.001	41	240	0.206	ug/l #	47
43) Isopropyl Acetate	6.330	43	7069	1.912	ug/l #	85
48) Methyl methacrylate	7.781	41	41114	22.330	ug/l #	47
51) 4-Methyl-2-Pentanone	8.537	43	47958	23.401	ug/l #	52
54) cis-1,3-Dichloropropene	8.537	75	23368	8.719	ug/l #	61
57) 1,3-Dichloropropane	9.464	76	1796	0.688	ug/l #	42
59) 2-Hexanone	9.470	43	24253	16.477	ug/l #	58
74) N-amyl acetate	10.756	43	1598	0.357	ug/l #	54
76) 1,2,3-Trichloropropane	11.061	75	65653	25.112	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	65653	64.038	ug/l #	8
95) Naphthalene	13.756	128	11765	1.389	ug/l	99

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

Quant Time: Oct 16 04:06:59 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



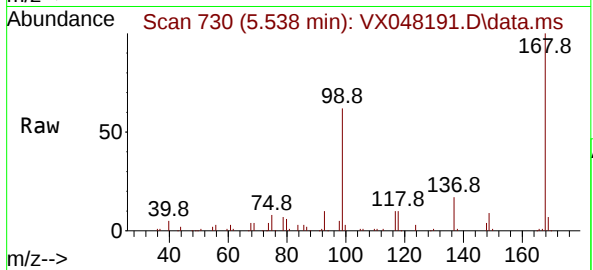


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

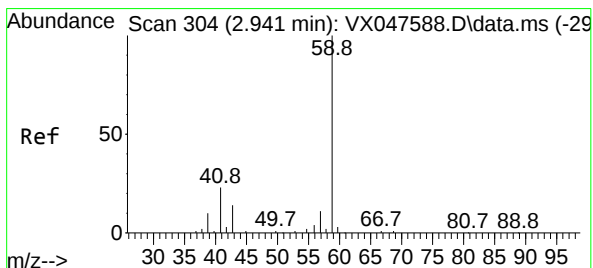
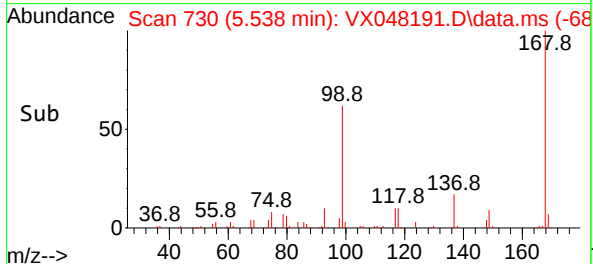
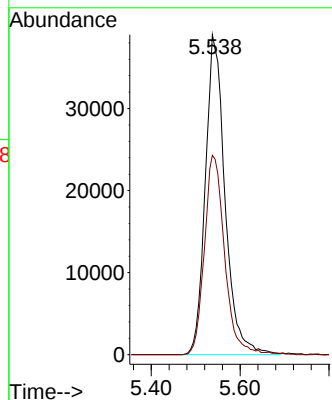
Instrument :

MSVOA_X

ClientSampleId :

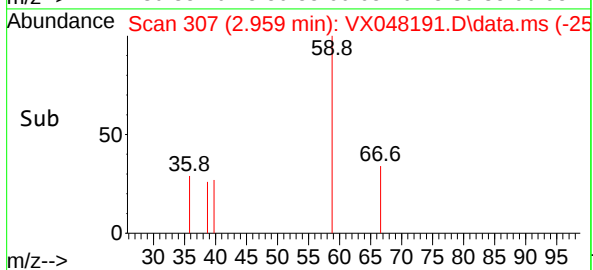
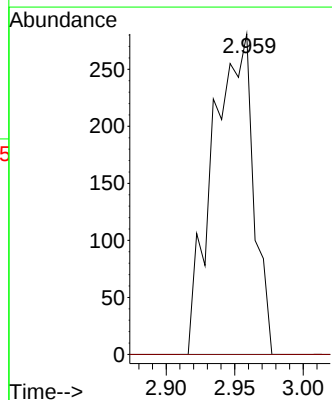
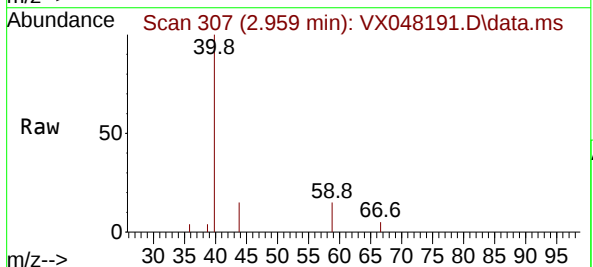


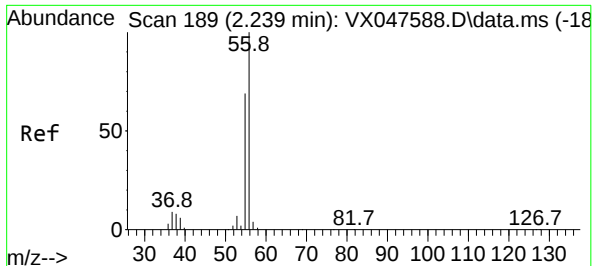
Tgt Ion:168 Resp: 120180
Ion Ratio Lower Upper
168 100
99 62.3 48.8 73.2



#11
Tert butyl alcohol
Concen: 2.708 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.018 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion: 59 Resp: 577
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

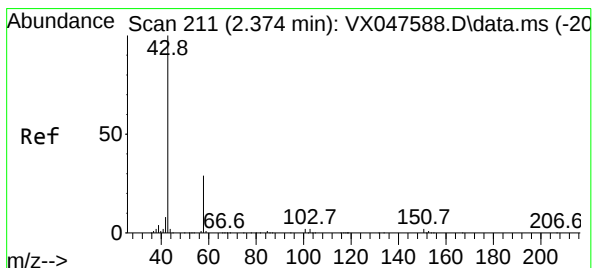
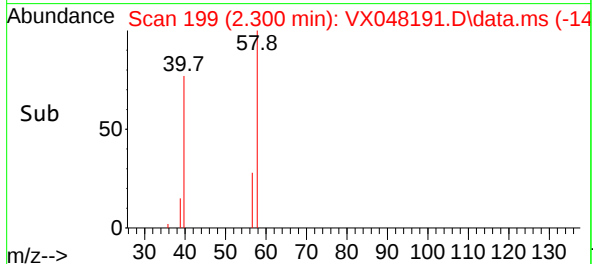
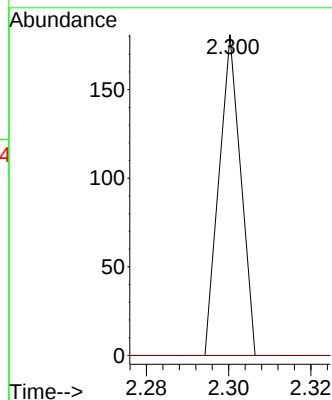
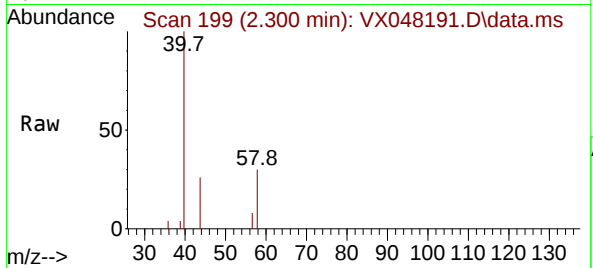




#13
Acrolein
Concen: 0.336 ug/l
RT: 2.300 min Scan# 199
Delta R.T. 0.061 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

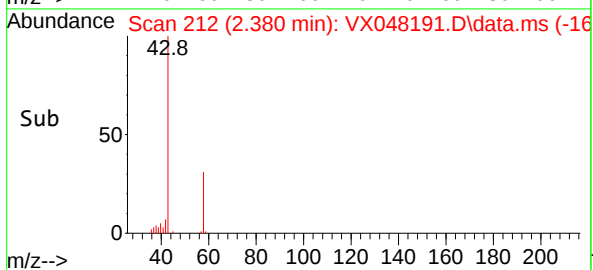
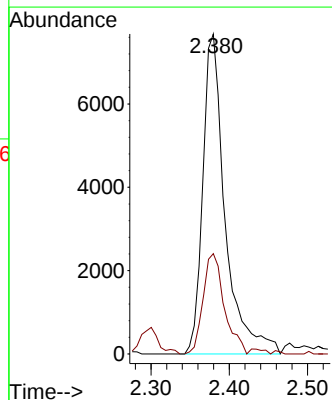
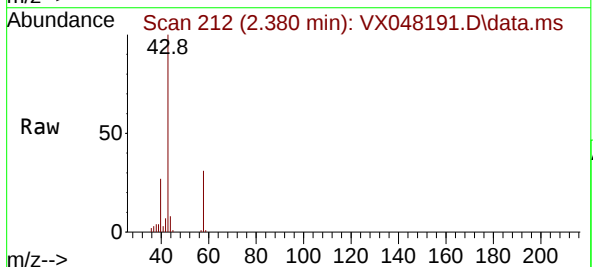
Instrument :
MSVOA_X
ClientSampleId :

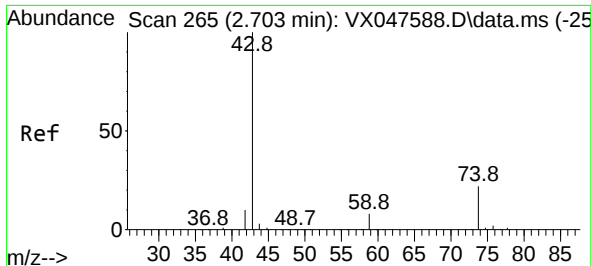
Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#



#16
Acetone
Concen: 18.262 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion: 43 Resp: 15190
Ion Ratio Lower Upper
43 100
58 34.2 23.4 35.0





#18

Methyl Acetate

Concen: 3.703 ug/l

RT: 2.703 min Scan# 2

Delta R.T. -0.000 min

Lab File: VX048191.D

Acq: 15 Oct 2025 15:17

Instrument :

MSVOA_X

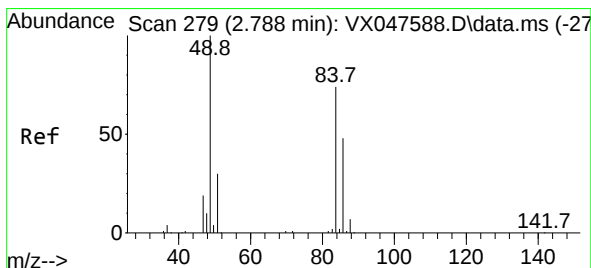
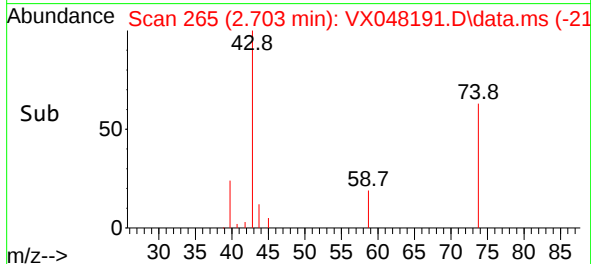
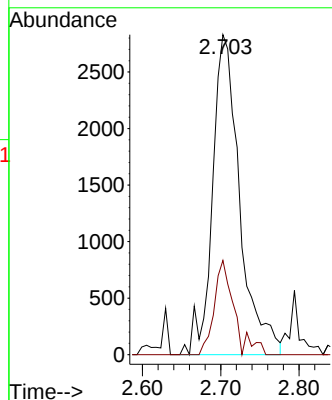
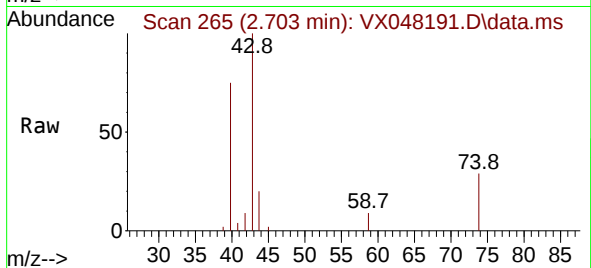
ClientSampleId :

Tgt Ion: 43 Resp: 6855

Ion Ratio Lower Upper

43 100

74 21.7 17.4 26.2



#20

Methylene Chloride

Concen: 3.636 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048191.D

Acq: 15 Oct 2025 15:17

Tgt Ion: 84 Resp: 6401

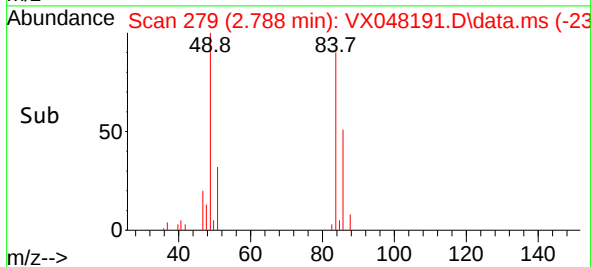
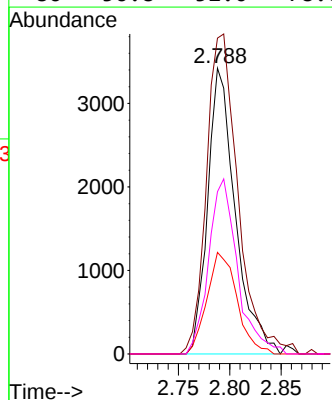
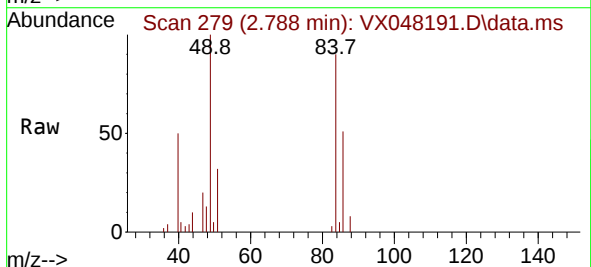
Ion Ratio Lower Upper

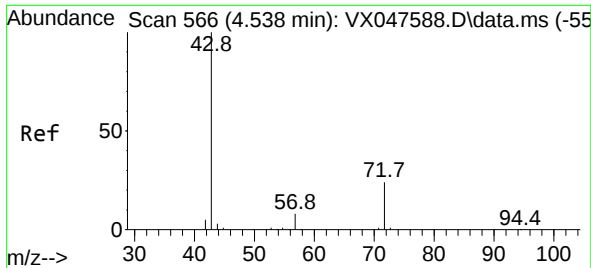
84 100

49 110.5 108.6 162.8

51 35.6 32.6 48.8

86 56.8 52.0 78.0

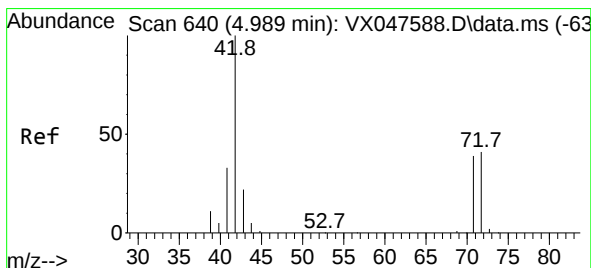
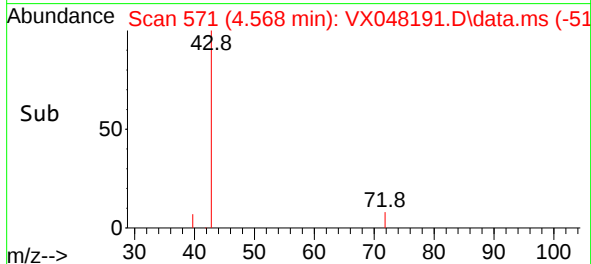
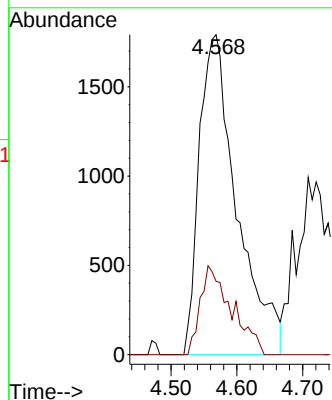
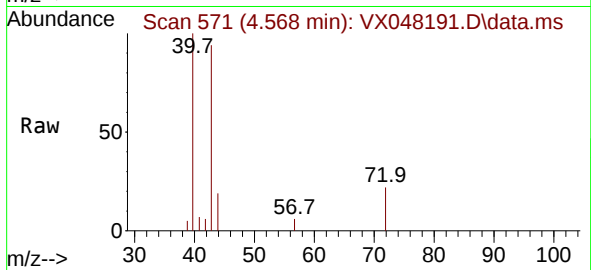




#25
2-Butanone
Concen: 6.858 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.030 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

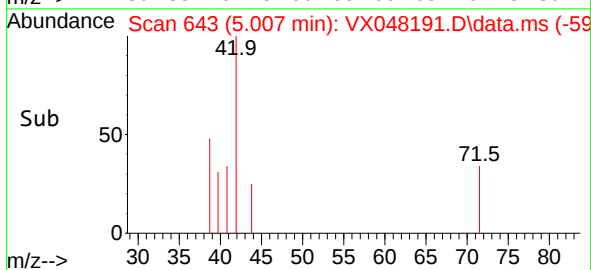
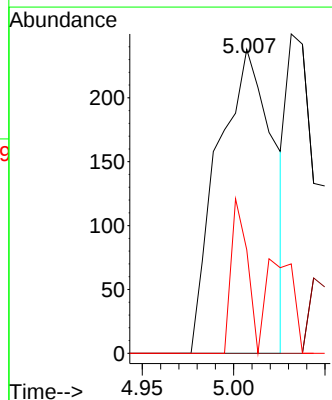
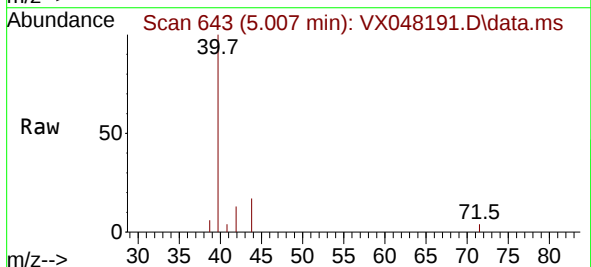
Instrument :
MSVOA_X
ClientSampleId :

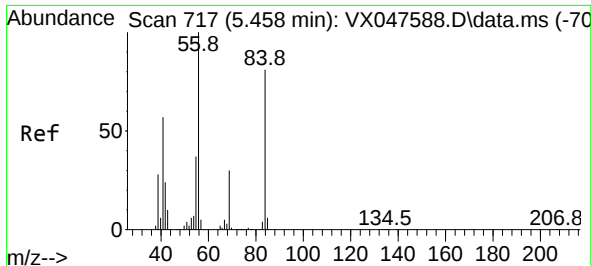
Tgt Ion: 43 Resp: 7115
Ion Ratio Lower Upper
43 100
72 22.9 20.1 30.1



#29
Tetrahydrofuran
Concen: 0.803 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.018 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

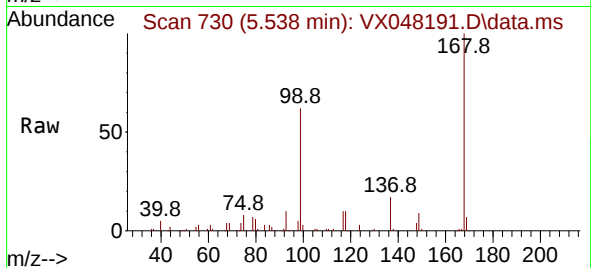
Tgt Ion: 42 Resp: 501
Ion Ratio Lower Upper
42 100
72 0.0 34.2 51.2#
71 14.8 31.9 47.9#



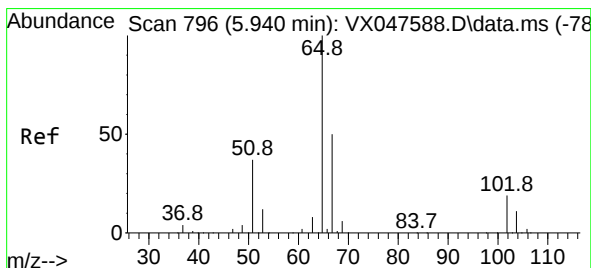
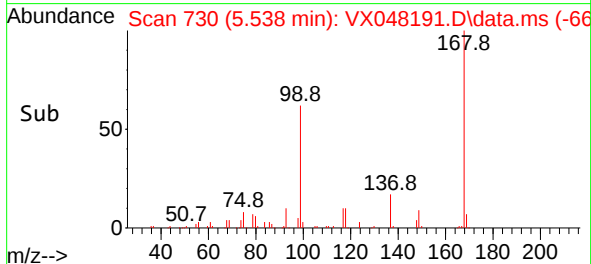
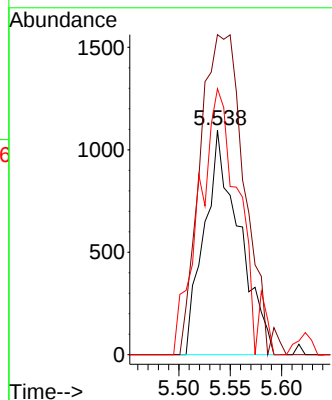


#31
Cyclohexane
Concen: 1.021 ug/l
RT: 5.538 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Instrument :
MSVOA_X
ClientSampleId :

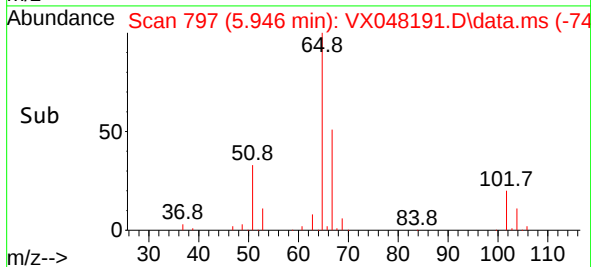
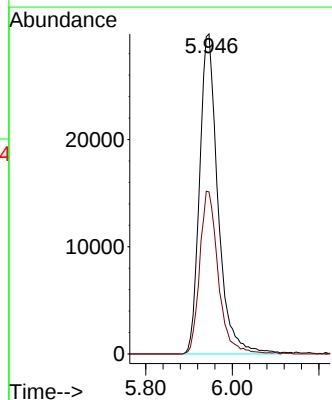
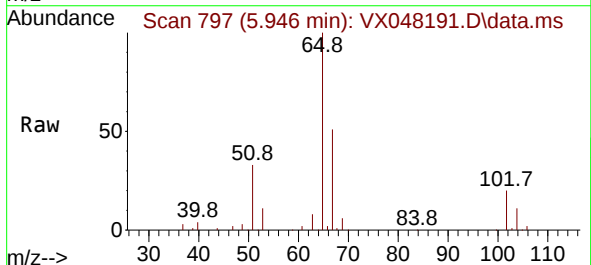


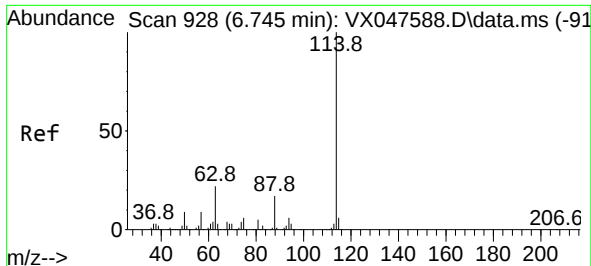
Tgt Ion: 56 Resp: 2581
Ion Ratio Lower Upper
56 100
69 142.5 23.8 35.8#
84 118.4 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 45.951 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

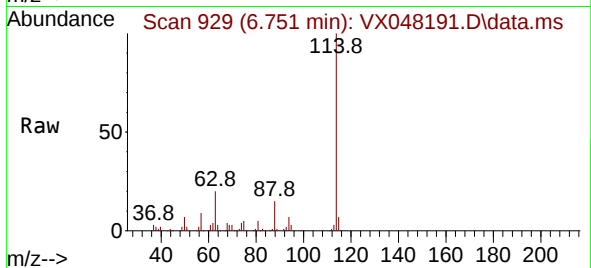
Tgt Ion: 65 Resp: 87903
Ion Ratio Lower Upper
65 100
67 51.2 0.0 103.0



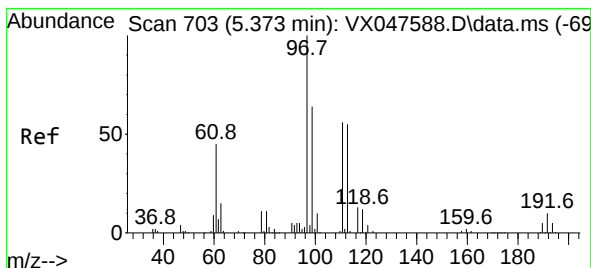
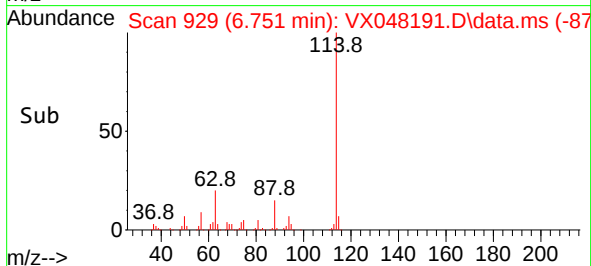
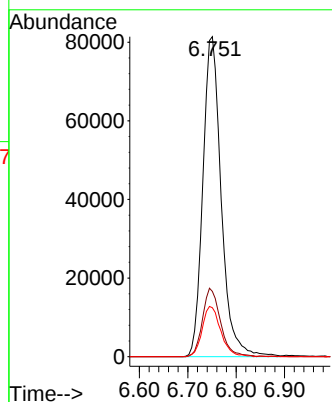


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Instrument :
MSVOA_X
ClientSampleId :

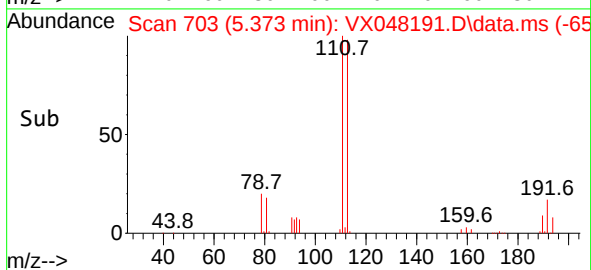
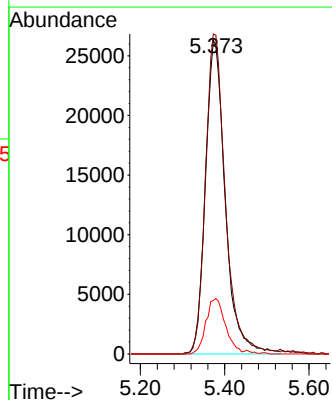
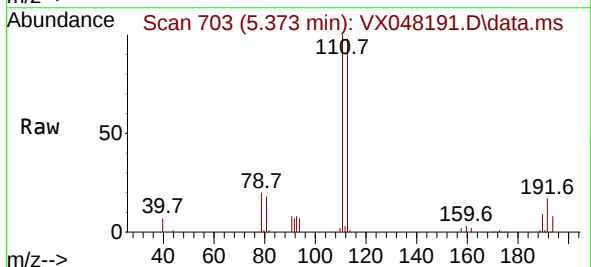


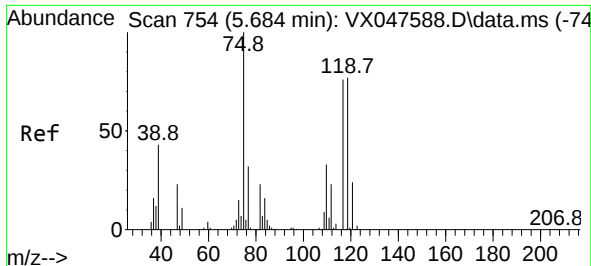
Tgt Ion:114 Resp: 214794
Ion Ratio Lower Upper
114 100
63 20.4 0.0 44.0
88 15.3 0.0 34.2



#35
Dibromofluoromethane
Concen: 59.611 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion:113 Resp: 85871
Ion Ratio Lower Upper
113 100
111 102.5 80.9 121.3
192 17.4 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.985 ug/l

RT: 5.544 min Scan# 754

Delta R.T. -0.140 min

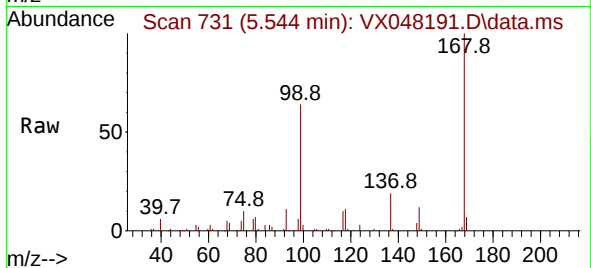
Lab File: VX048191.D

Acq: 15 Oct 2025 15:17

Instrument :

MSVOA_X

ClientSampleId :



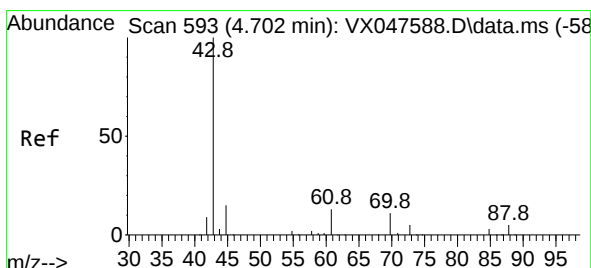
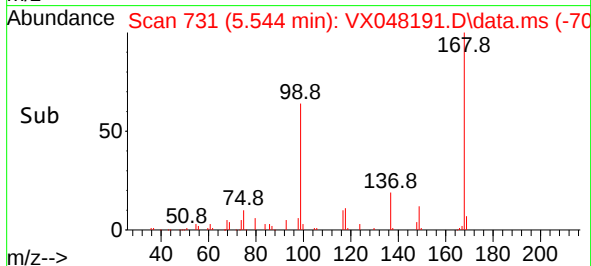
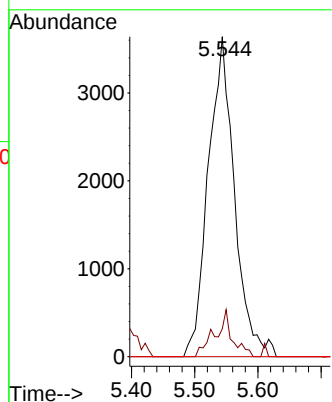
Tgt Ion: 75 Resp: 10493

Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.1#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 1.584 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX048191.D

Acq: 15 Oct 2025 15:17

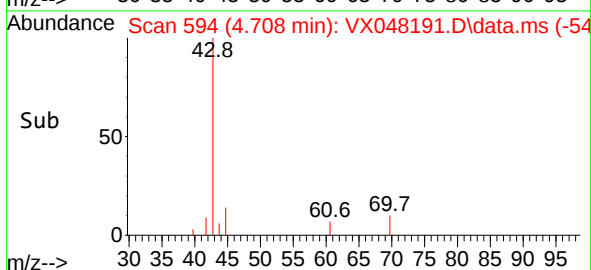
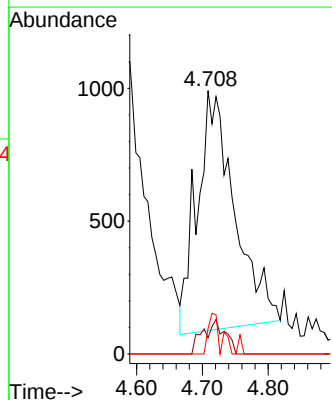
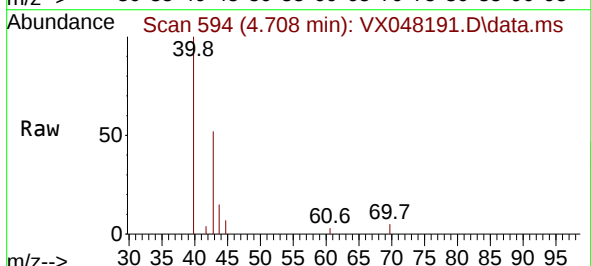
Tgt Ion: 43 Resp: 3570

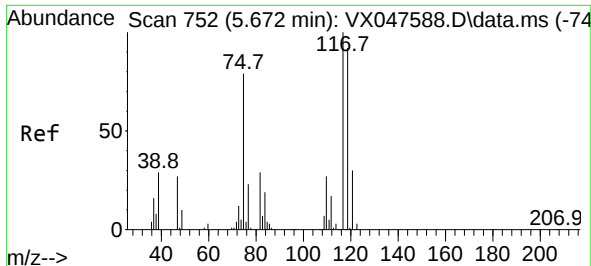
Ion Ratio Lower Upper

43 100

61 8.5 9.8 14.8#

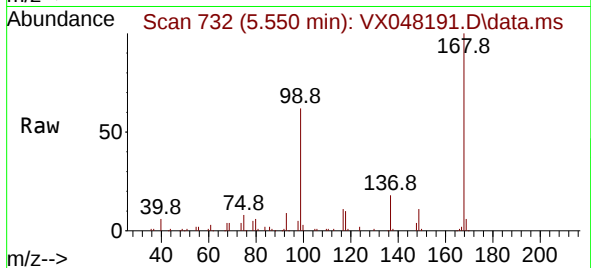
70 5.6 7.9 11.9#



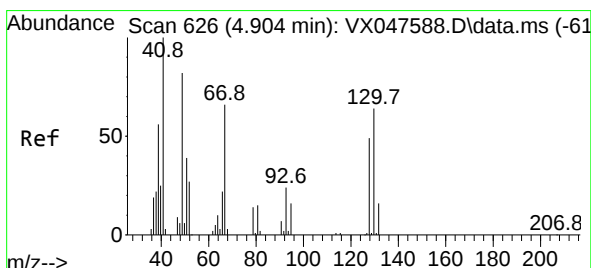
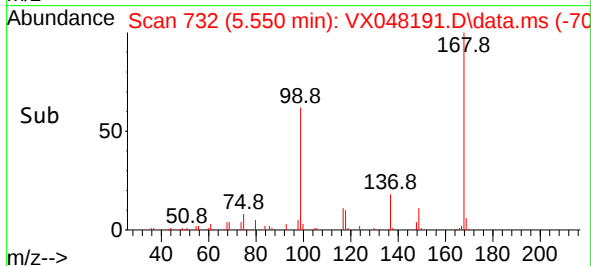
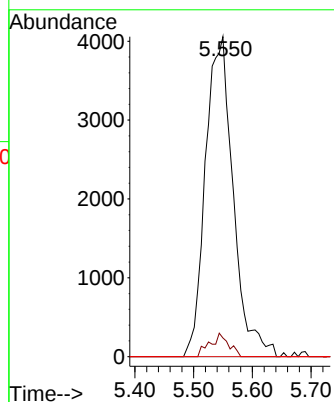


#38
Carbon Tetrachloride
Concen: 5.815 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Instrument :
MSVOA_X
ClientSampleId :

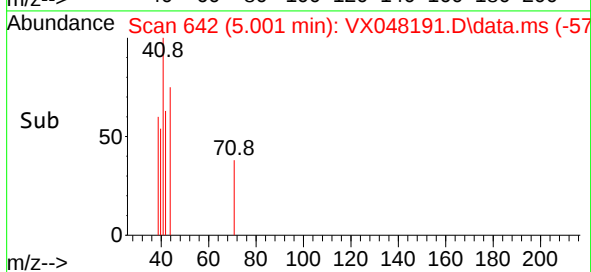
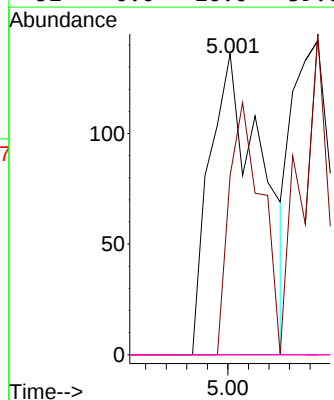
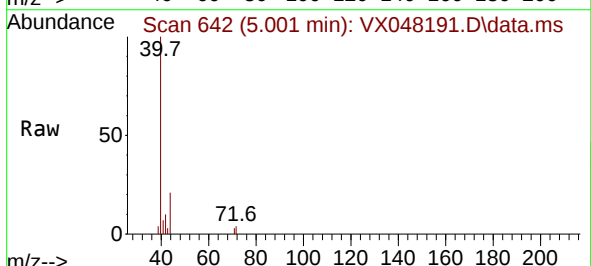


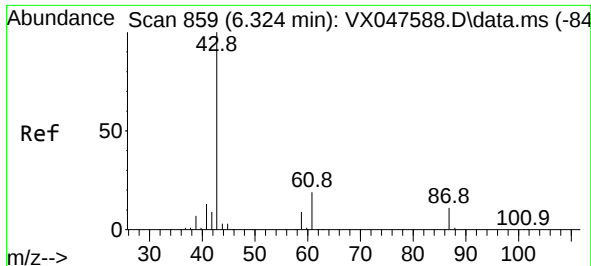
Tgt Ion:117 Resp: 13300
Ion Ratio Lower Upper
117 100
119 5.9 73.4 110.2#
121 0.0 23.8 35.6#



#41
Methacrylonitrile
Concen: 0.206 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.097 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion: 41 Resp: 240
Ion Ratio Lower Upper
41 100
39 51.7 43.3 64.9
67 0.0 58.6 87.8#
52 0.0 26.0 39.0#

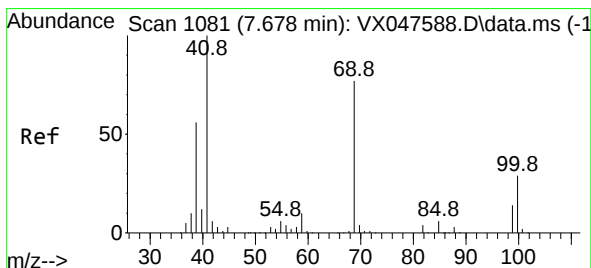
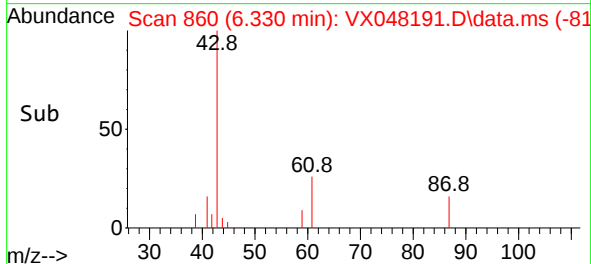
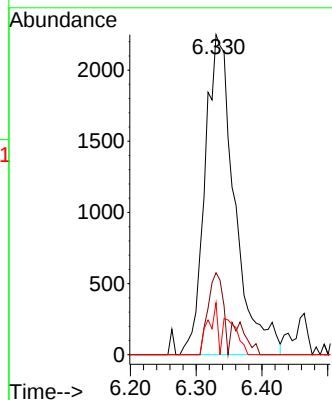
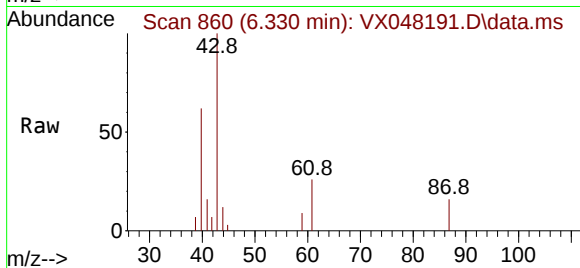




#43
Isopropyl Acetate
Concen: 1.912 ug/l
RT: 6.330 min Scan# 80
Delta R.T. 0.006 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

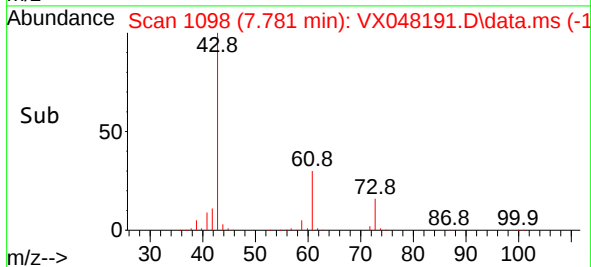
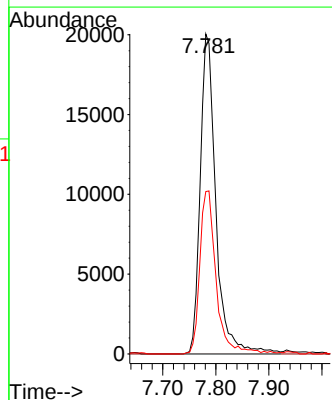
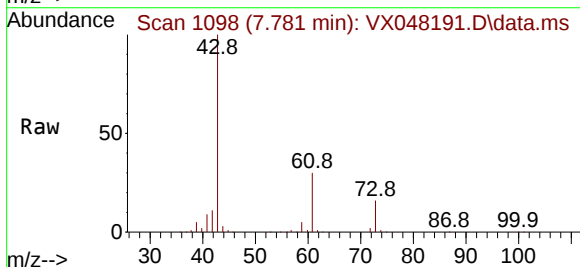
Instrument :
MSVOA_X
ClientSampleId :

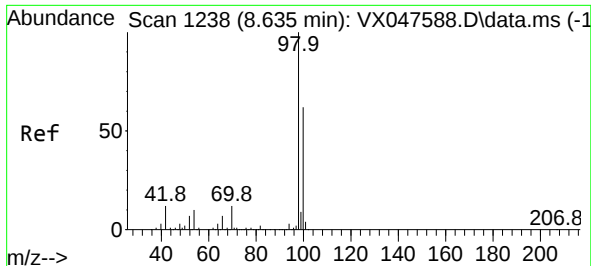
Tgt Ion: 43 Resp: 7069
Ion Ratio Lower Upper
43 100
61 12.8 15.2 22.8#
87 5.1 9.6 14.4#



#48
Methyl methacrylate
Concen: 22.330 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion: 41 Resp: 41114
Ion Ratio Lower Upper
41 100
69 0.0 61.4 92.2#
39 53.3 45.8 68.6





#50

Toluene-d8

Concen: 50.628 ug/l

RT: 8.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048191.D

Acq: 15 Oct 2025 15:17

Instrument :

MSVOA_X

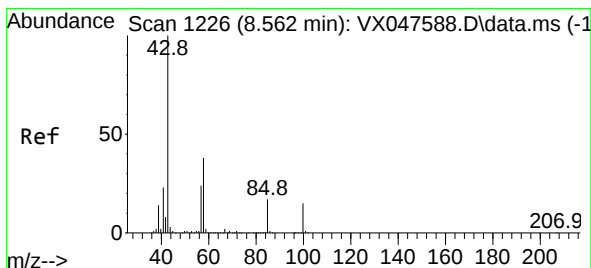
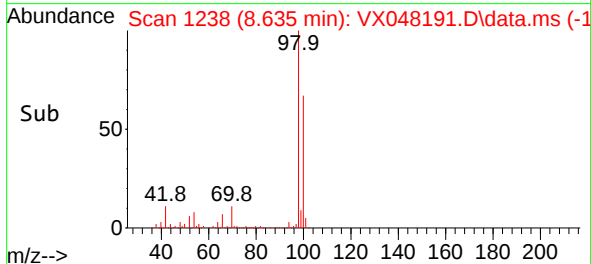
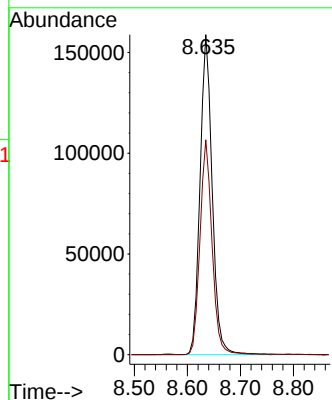
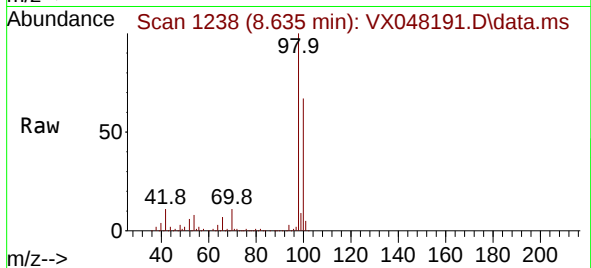
ClientSampleId :

Tgt Ion: 98 Resp: 252357

Ion Ratio Lower Upper

98 100

100 66.8 53.0 79.4



#51

4-Methyl-2-Pentanone

Concen: 23.401 ug/l

RT: 8.537 min Scan# 1222

Delta R.T. -0.025 min

Lab File: VX048191.D

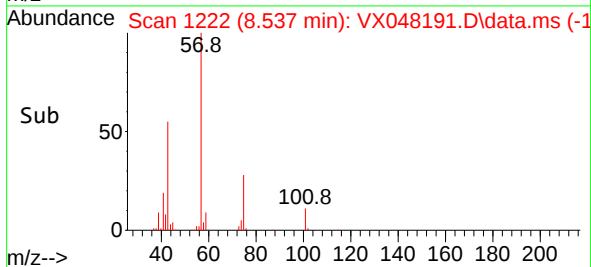
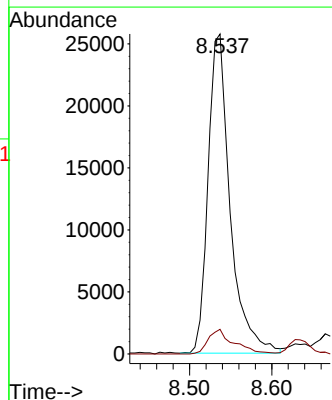
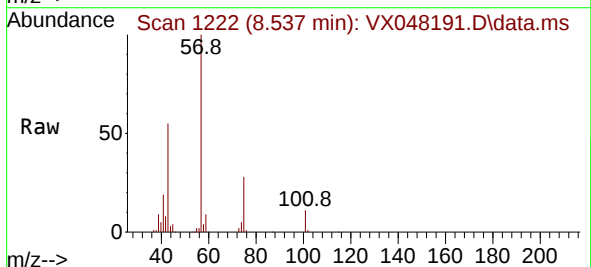
Acq: 15 Oct 2025 15:17

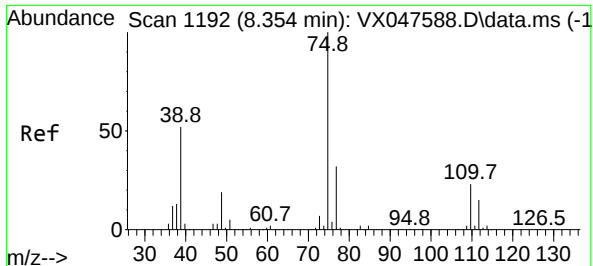
Tgt Ion: 43 Resp: 47958

Ion Ratio Lower Upper

43 100

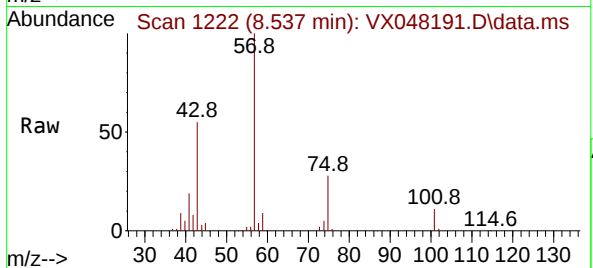
58 9.0 30.3 45.5#



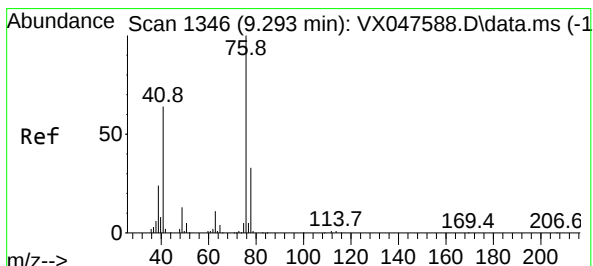
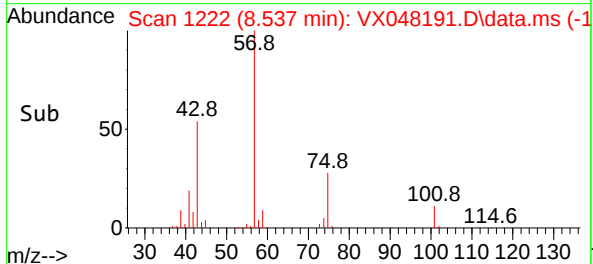
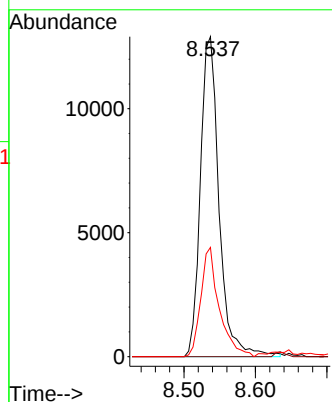


#54
 cis-1,3-Dichloropropene
 Concen: 8.719 ug/l
 RT: 8.537 min Scan# 1192
 Delta R.T. 0.183 min
 Lab File: VX048191.D
 Acq: 15 Oct 2025 15:17

Instrument :
 MSVOA_X
 ClientSampleId :

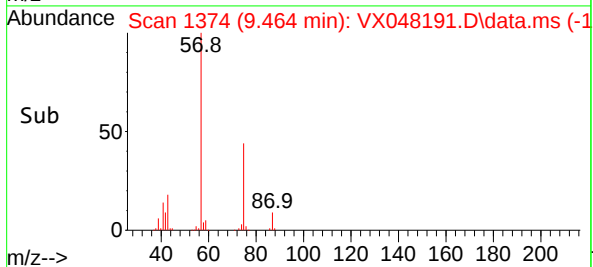
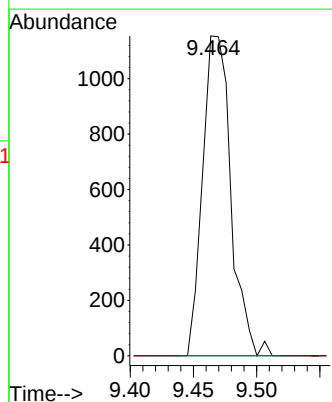
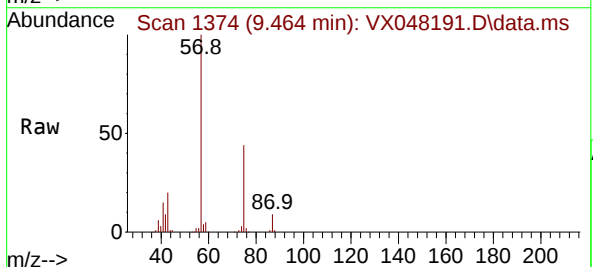


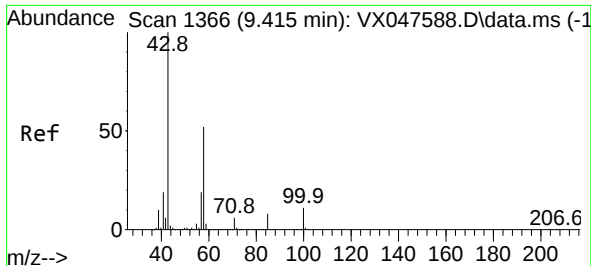
Tgt Ion: 75 Resp: 23368
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.6#
 39 32.8 41.4 62.2#



#57
 1,3-Dichloropropane
 Concen: 0.688 ug/l
 RT: 9.464 min Scan# 1374
 Delta R.T. 0.171 min
 Lab File: VX048191.D
 Acq: 15 Oct 2025 15:17

Tgt Ion: 76 Resp: 1796
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

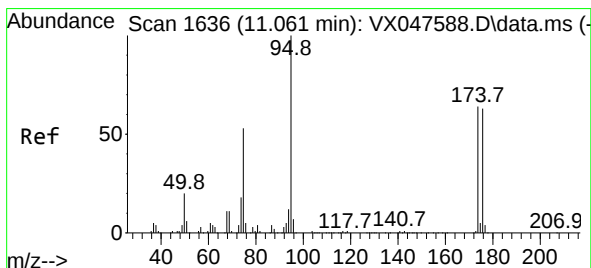
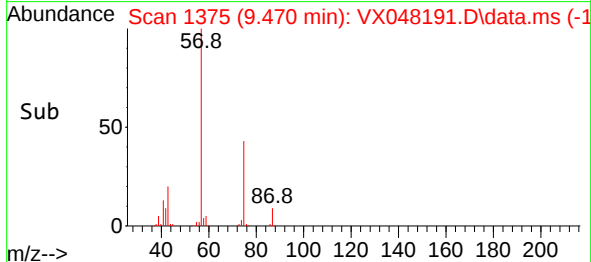
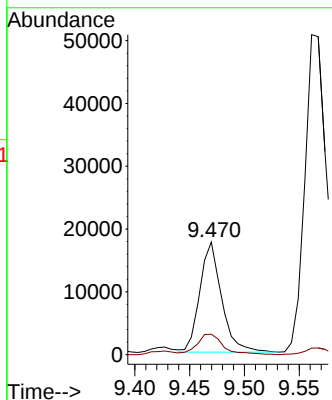
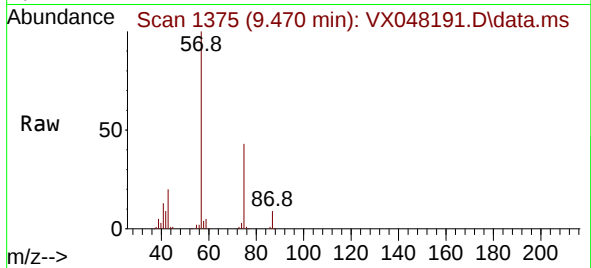




#59
2-Hexanone
Concen: 16.477 ug/l
RT: 9.470 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

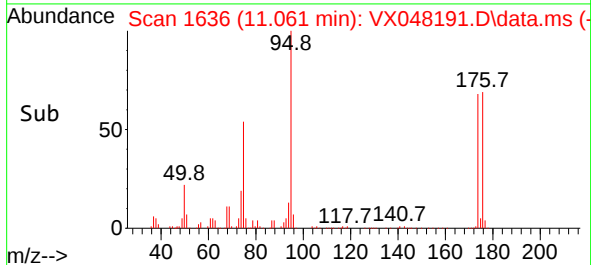
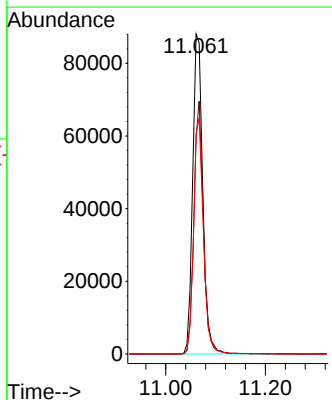
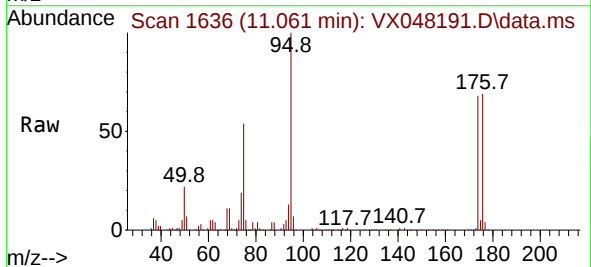
Instrument :
MSVOA_X
ClientSampleId :

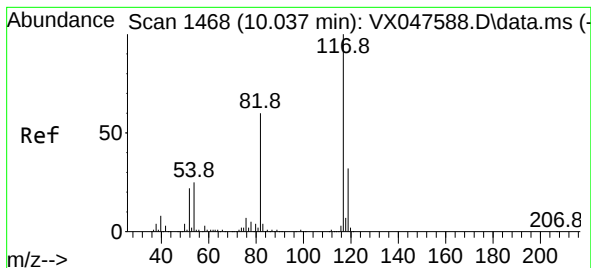
Tgt Ion: 43 Resp: 24253
Ion Ratio Lower Upper
43 100
58 22.4 26.1 78.2#



#62
4-Bromofluorobenzene
Concen: 65.371 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion: 95 Resp: 123663
Ion Ratio Lower Upper
95 100
174 74.0 0.0 141.6
176 71.0 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: VX048191.D

Acq: 15 Oct 2025 15:17

Instrument :

MSVOA_X

ClientSampleId :

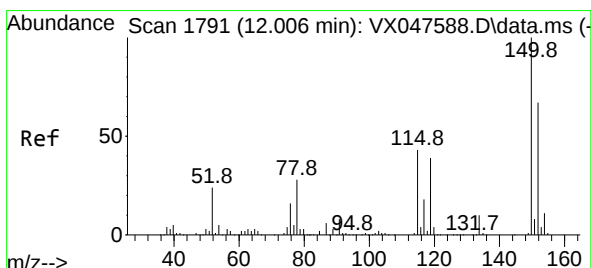
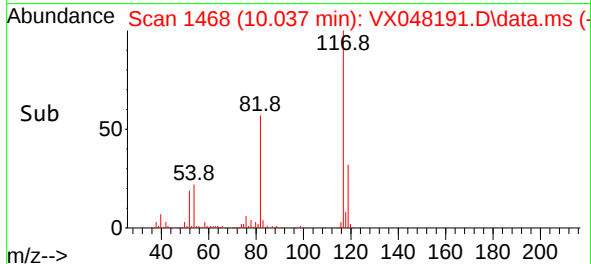
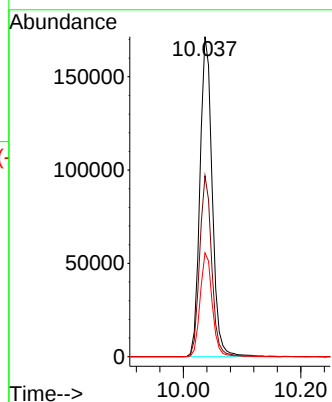
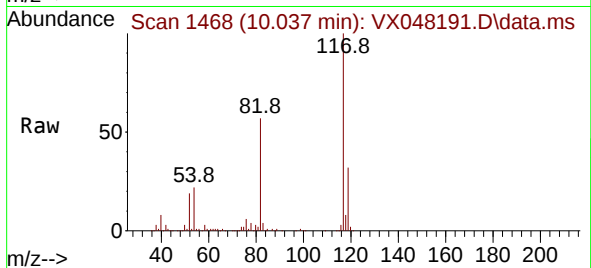
Tgt Ion:117 Resp: 247536

Ion Ratio Lower Upper

117 100

82 56.5 47.8 71.6

119 32.5 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: VX048191.D

Acq: 15 Oct 2025 15:17

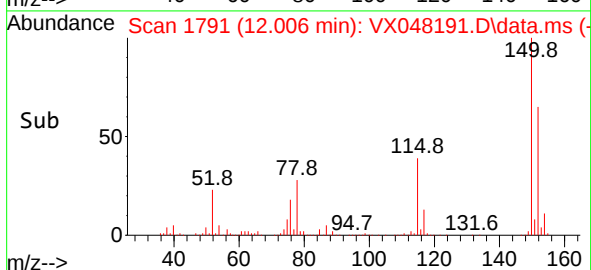
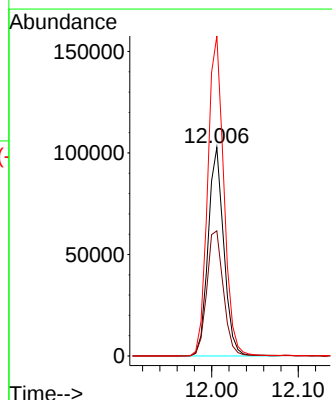
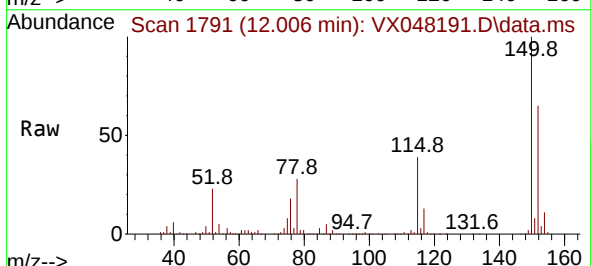
Tgt Ion:152 Resp: 129128

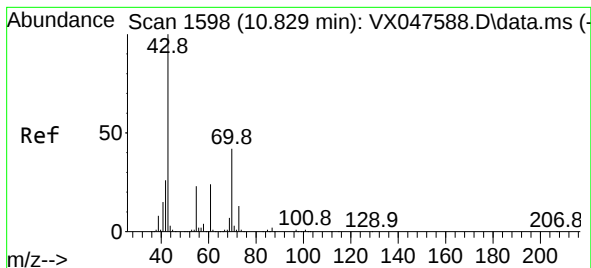
Ion Ratio Lower Upper

152 100

115 63.7 44.9 134.5

150 157.6 0.0 352.0





#74

N-amy1 acetate

Concen: 0.357 ug/l

RT: 10.756 min Scan# 1598

Delta R.T. -0.073 min

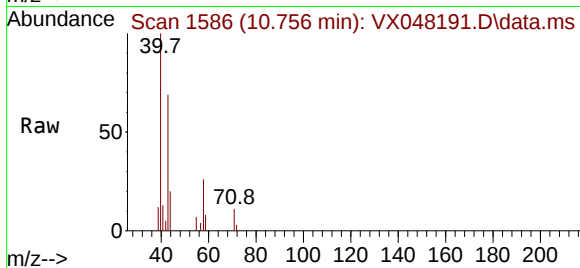
Lab File: VX048191.D

Acq: 15 Oct 2025 15:17

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 43 Resp: 1598

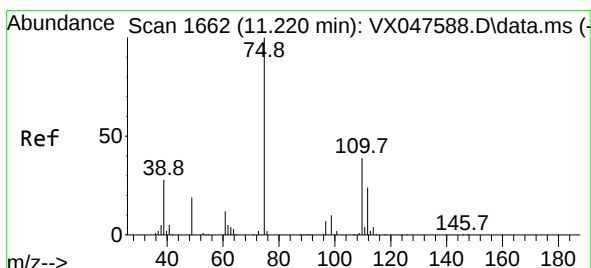
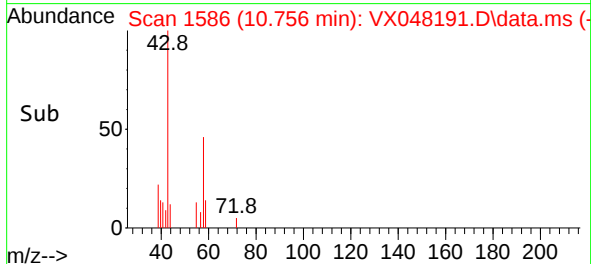
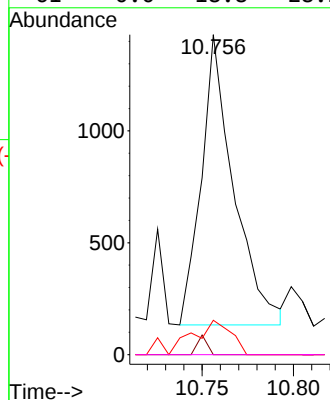
Ion Ratio Lower Upper

43 100

70 2.0 32.0 48.0#

55 15.5 18.9 28.3#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 25.112 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048191.D

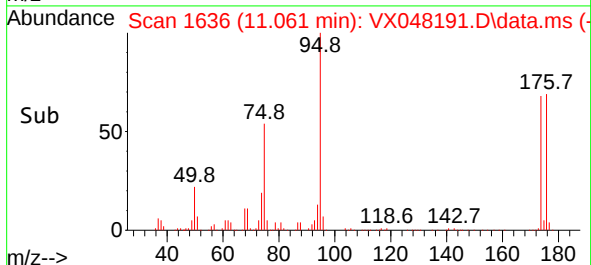
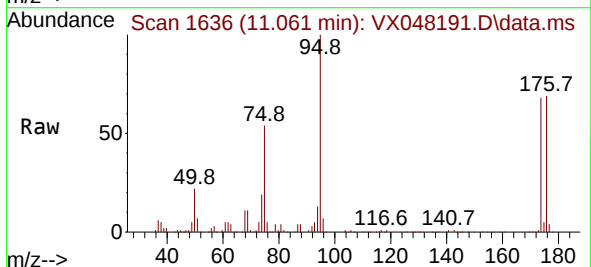
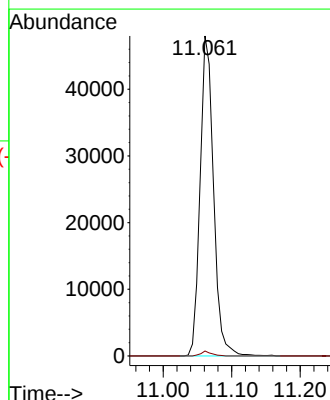
Acq: 15 Oct 2025 15:17

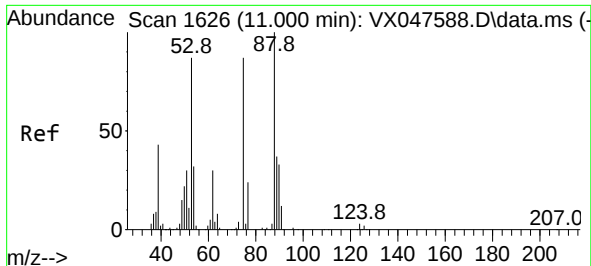
Tgt Ion: 75 Resp: 65653

Ion Ratio Lower Upper

75 100

77 1.2 18.8 56.4#

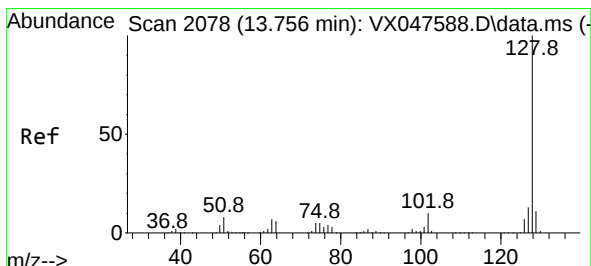
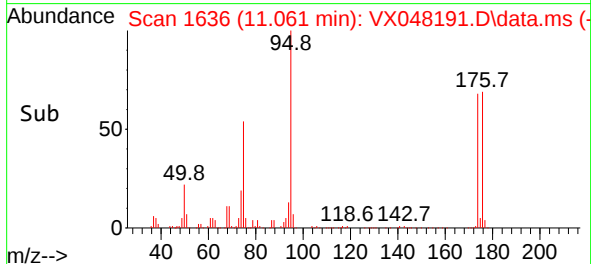
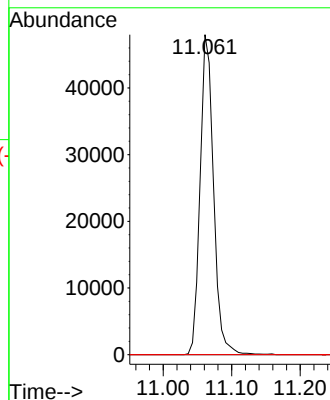
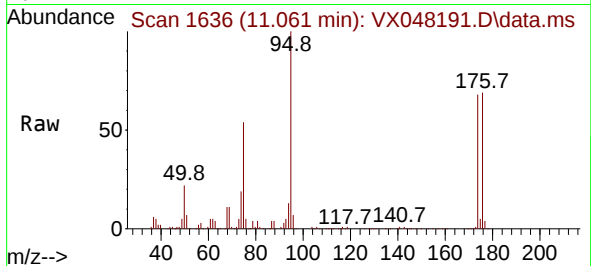




#81
trans-1,4-Dichloro-2-butene
Concen: 64.038 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 75 Resp: 65653
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#95
Naphthalene
Concen: 1.389 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048191.D
Acq: 15 Oct 2025 15:17

Tgt Ion: 128 Resp: 11765
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.2
129 11.1 8.8 13.2

