

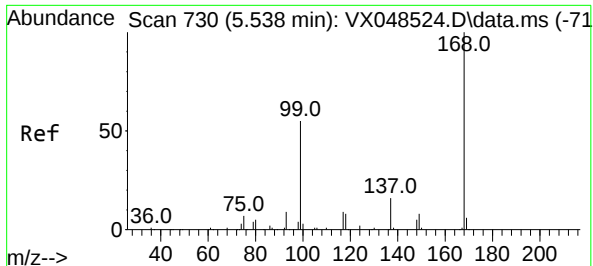
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111225\
 Data File : VX048574.D
 Acq On : 12 Nov 2025 13:21
 Operator : JC/MD
 Sample : Q3549-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT4922

Quant Time: Nov 14 00:27:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	171638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	342073	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	357512	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	192460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	125993	52.681	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 105.360%	
35) Dibromofluoromethane	5.379	113	111803	43.183	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 86.360%	
50) Toluene-d8	8.634	98	382335	47.350	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 94.700%	
62) 4-Bromofluorobenzene	11.061	95	168689	56.058	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 112.120%	
Target Compounds						Qvalue
11) Tert butyl alcohol	2.934	59	9226	20.358	ug/l	97
13) Acrolein	2.239	56	58	0.885	ug/l #	1
14) Allyl chloride	2.642	41	1205	0.324	ug/l #	63
16) Acetone	2.373	43	325415	287.446	ug/l	98
18) Methyl Acetate	2.703	43	3151	1.013	ug/l	97
20) Methylene Chloride	2.788	84	11504	4.943	ug/l	93
25) 2-Butanone	4.544	43	63588	37.969	ug/l	99
29) Tetrahydrofuran	4.983	42	350	0.293	ug/l #	32
31) Cyclohexane	5.531	56	3020	0.940	ug/l #	1
36) 1,1-Dichloropropene	5.537	75	11991	3.459	ug/l #	49
37) Ethyl Acetate	4.544	43	63588	13.030	ug/l #	71
38) Carbon Tetrachloride	5.537	117	16647	4.218	ug/l #	17
41) Methacrylonitrile	5.001	41	774	0.361	ug/l #	35
43) Isopropyl Acetate	6.336	43	4312	0.629	ug/l #	84
48) Methyl methacrylate	7.787	41	11508	3.774	ug/l #	41
51) 4-Methyl-2-Pentanone	8.537	43	20269	5.191	ug/l #	35
54) cis-1,3-Dichloropropene	8.537	75	5965	1.555	ug/l #	62
59) 2-Hexanone	9.421	43	2559	0.881	ug/l	90
74) N-amyl acetate	10.750	43	61266	8.734	ug/l #	46
76) 1,2,3-Trichloropropane	11.061	75	82236	17.736	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	82236	50.731	ug/l #	12
95) Naphthalene	13.762	128	4956	0.357	ug/l	97

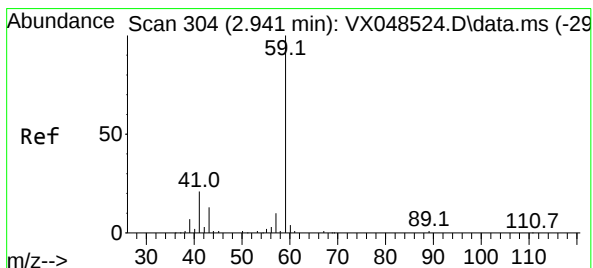
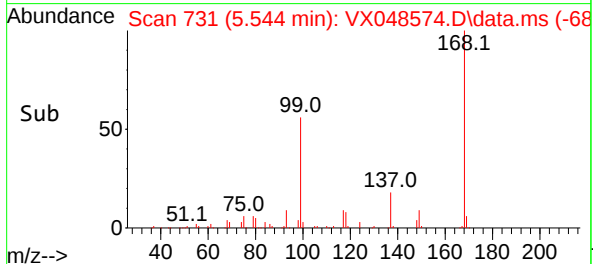
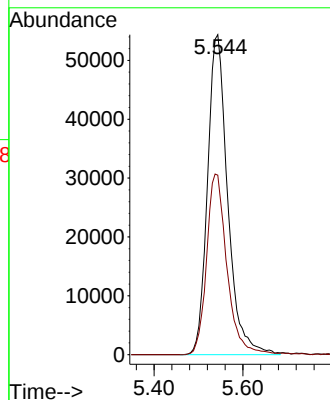
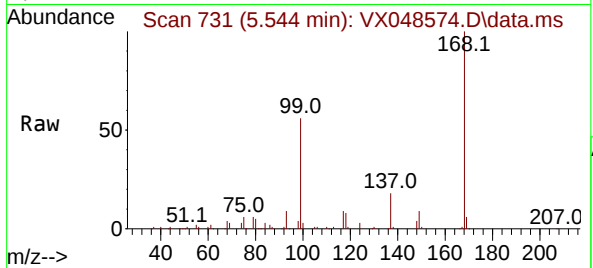
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

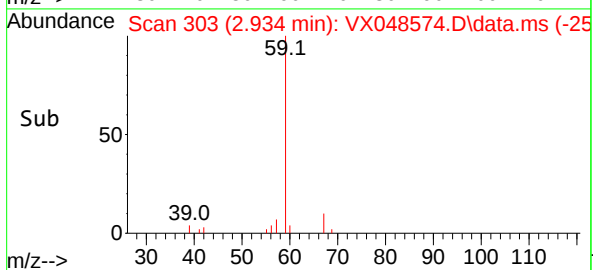
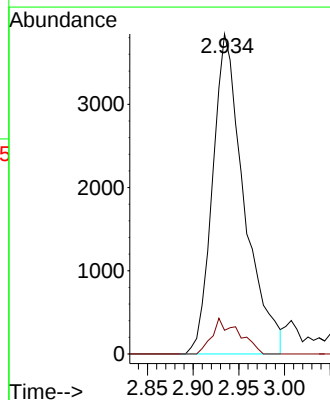
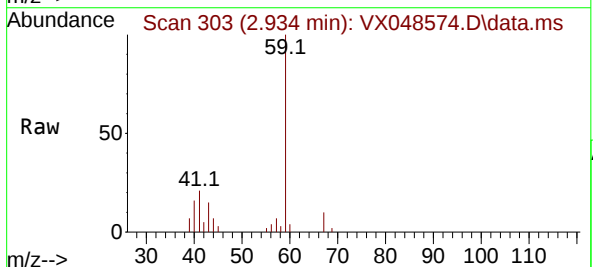
Instrument :
MSVOA_X
ClientSampleId :
RT4922

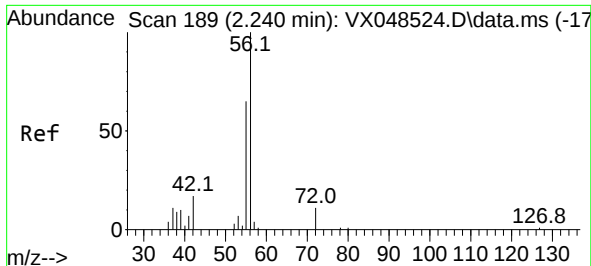
Tgt Ion:168 Resp: 171638
Ion Ratio Lower Upper
168 100
99 56.1 45.2 67.8



#11
Tert butyl alcohol
Concen: 20.358 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 59 Resp: 9226
Ion Ratio Lower Upper
59 100
57 9.5 8.6 13.0

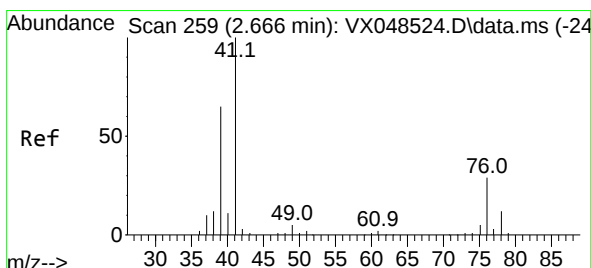
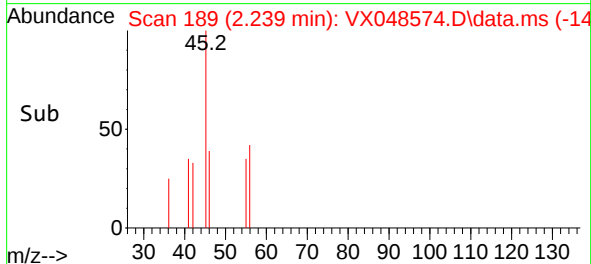
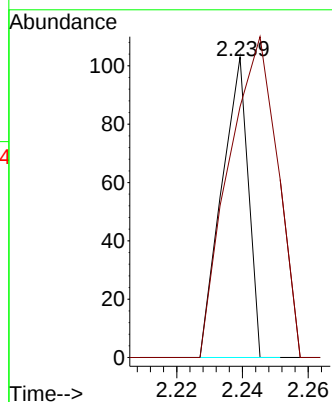
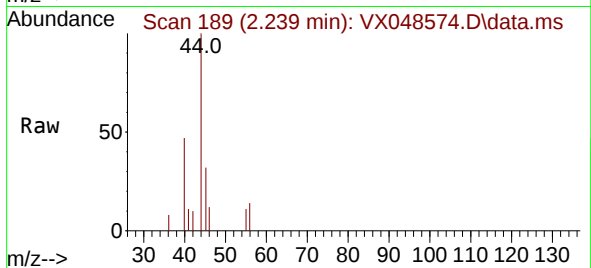




#13
Acrolein
Concen: 0.885 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

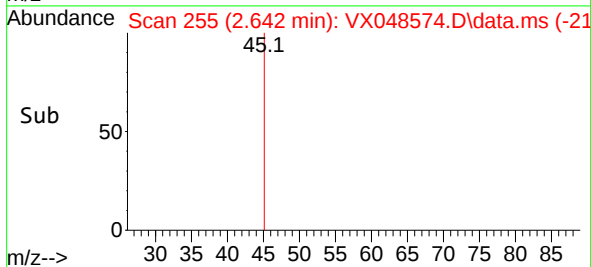
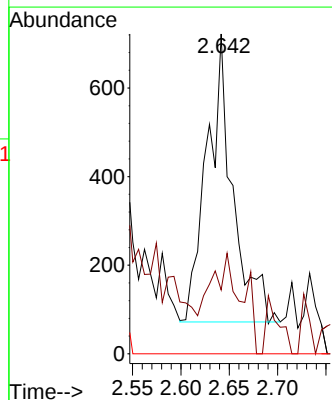
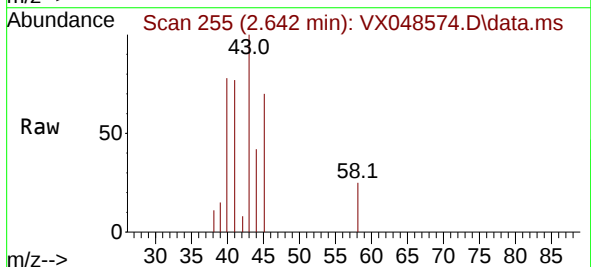
Instrument :
MSVOA_X
ClientSampleId :
RT4922

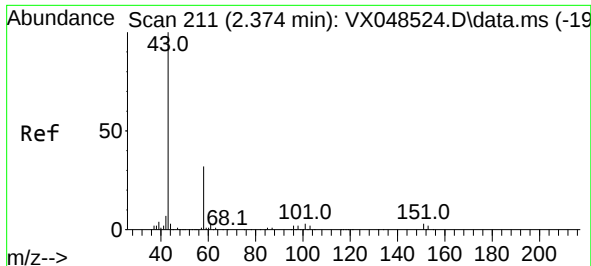
Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 194.8 54.9 82.3#



#14
Allyl chloride
Concen: 0.324 ug/l
RT: 2.642 min Scan# 255
Delta R.T. -0.025 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 41 Resp: 1205
Ion Ratio Lower Upper
41 100
39 42.7 48.6 73.0#
76 0.0 27.7 41.5#

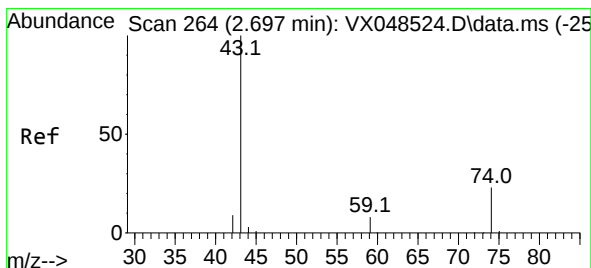
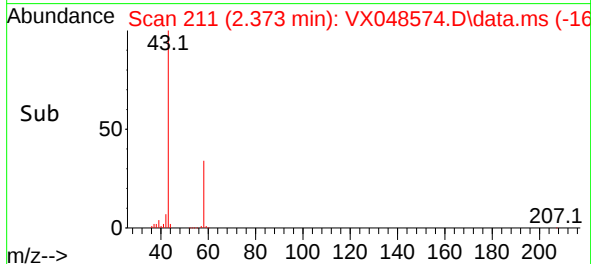
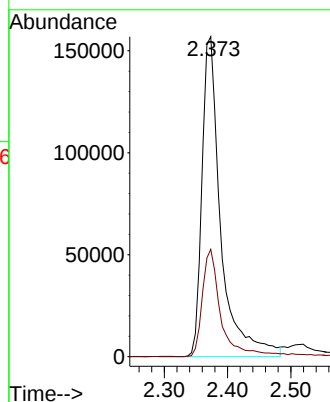
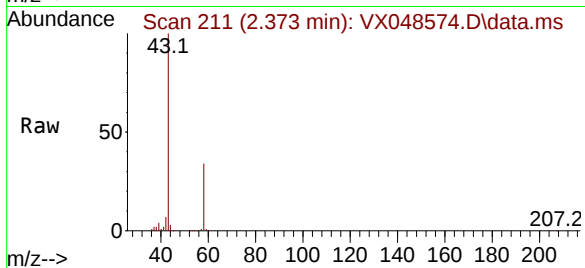




#16
Acetone
Concen: 287.446 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

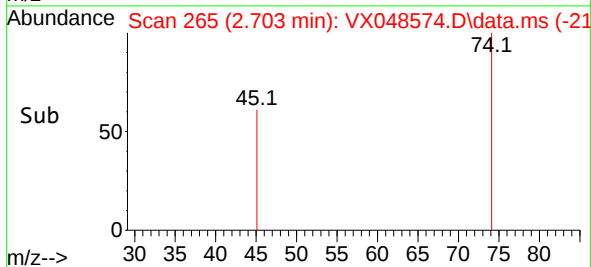
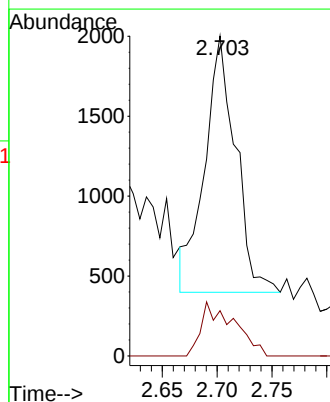
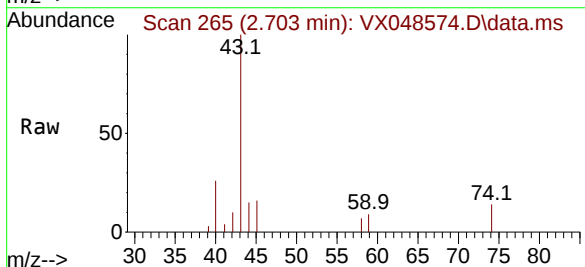
Instrument :
MSVOA_X
ClientSampleId :
RT4922

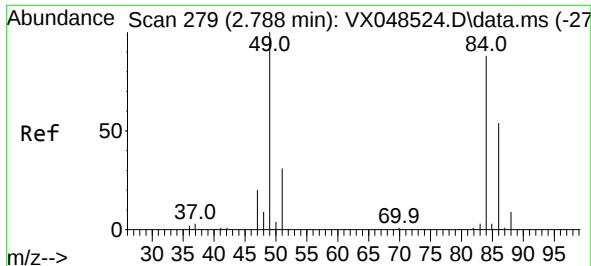
Tgt Ion: 43 Resp: 325415
Ion Ratio Lower Upper
43 100
58 33.5 25.8 38.6



#18
Methyl Acetate
Concen: 1.013 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 43 Resp: 3151
Ion Ratio Lower Upper
43 100
74 22.4 19.1 28.7

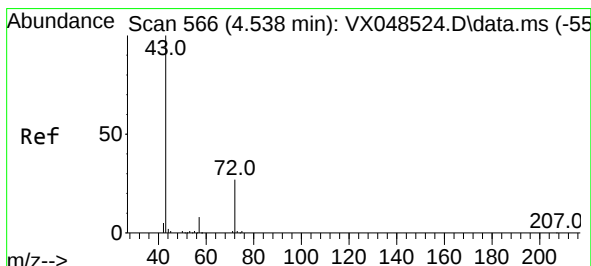
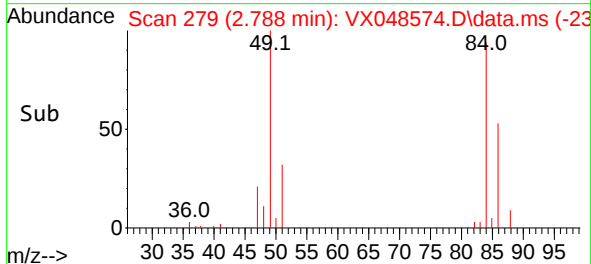
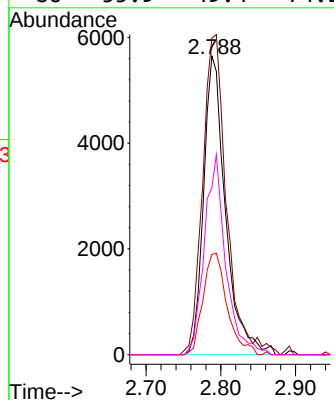
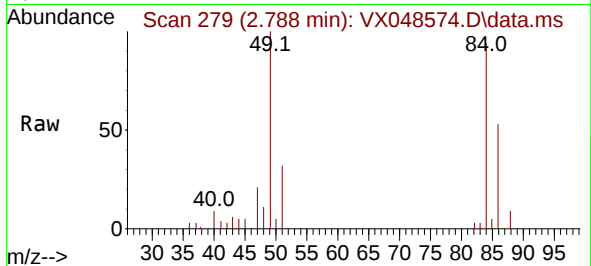




#20
Methylene Chloride
Concen: 4.943 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

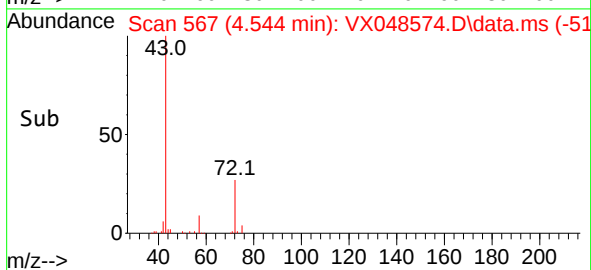
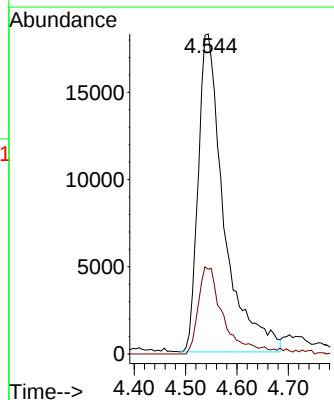
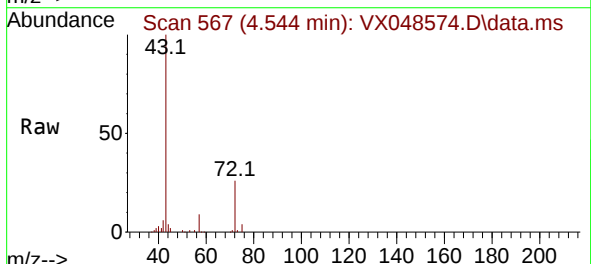
Instrument :
MSVOA_X
ClientSampleId :
RT4922

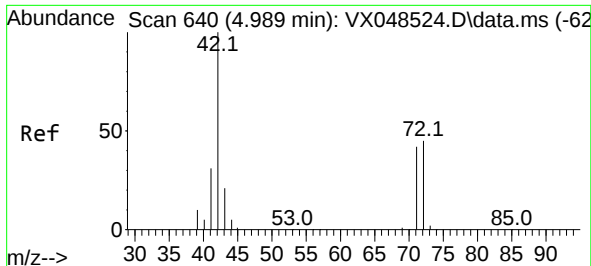
Tgt Ion:	84	Resp:	11504
Ion	Ratio	Lower	Upper
84	100		
49	106.0	91.2	136.8
51	33.6	28.3	42.5
86	55.9	49.4	74.2



#25
2-Butanone
Concen: 37.969 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion:	43	Resp:	63588
Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.5	32.3

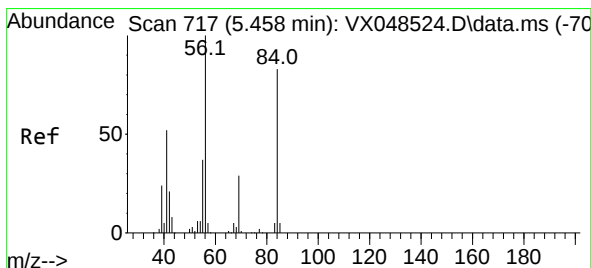
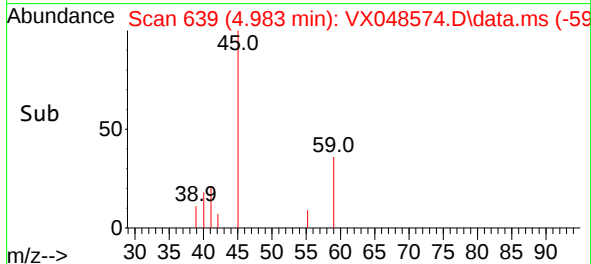
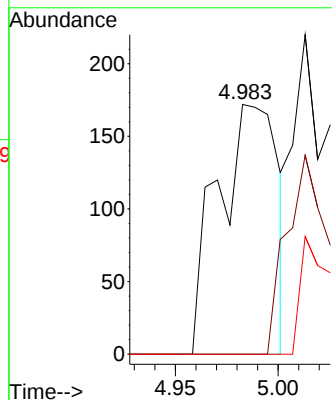
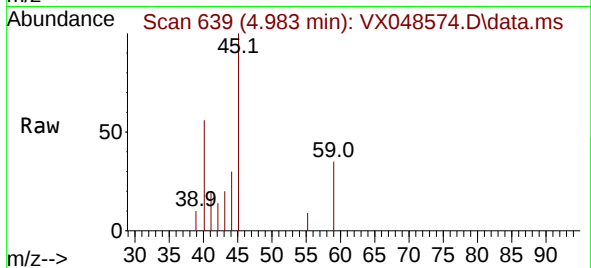




#29
Tetrahydrofuran
Concen: 0.293 ug/l
RT: 4.983 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

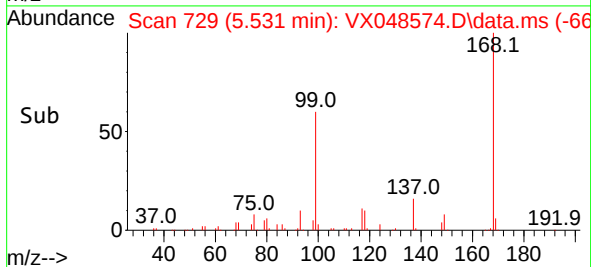
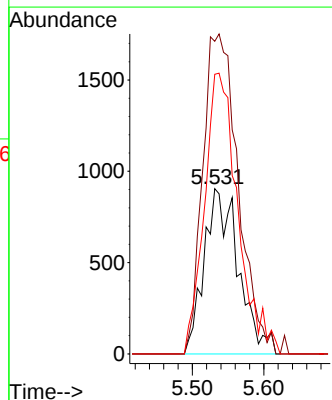
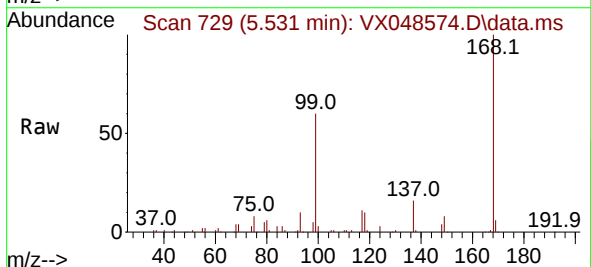
Instrument :
MSVOA_X
ClientSampleId :
RT4922

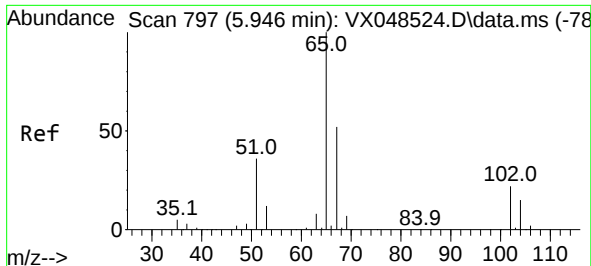
Tgt Ion:	42	Resp:	350
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.3	54.5#
71	0.0	34.1	51.1#



#31
Cyclohexane
Concen: 0.940 ug/l
RT: 5.531 min Scan# 729
Delta R.T. 0.073 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion:	56	Resp:	3020
Ion	Ratio	Lower	Upper
56	100		
69	189.2	23.4	35.2#
84	169.2	66.3	99.5#





#33

1,2-Dichloroethane-d4

Concen: 52.681 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.000 min

Lab File: VX048574.D

Acq: 12 Nov 2025 13:21

Instrument :

MSVOA_X

ClientSampleId :

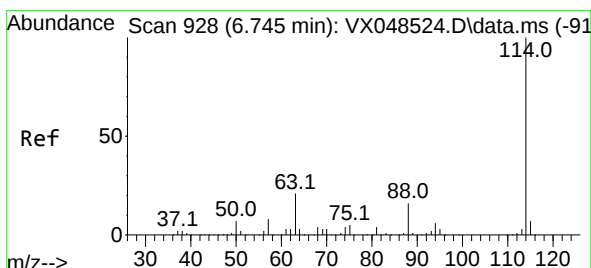
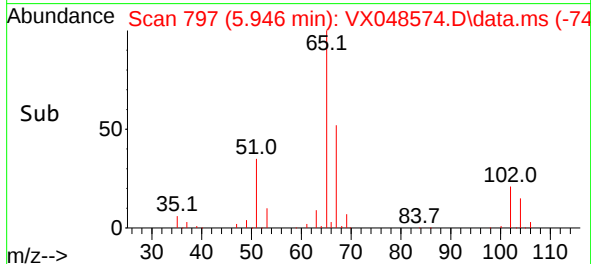
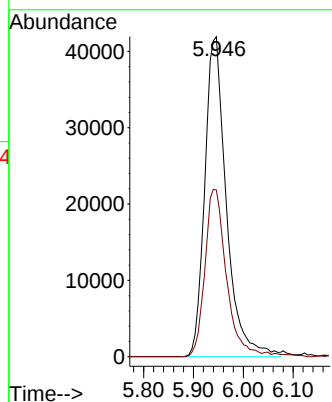
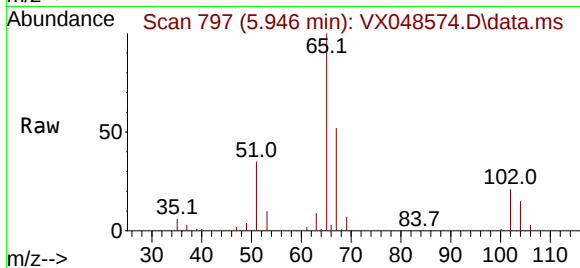
RT4922

Tgt Ion: 65 Resp: 125993

Ion Ratio Lower Upper

65 100

67 51.6 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048574.D

Acq: 12 Nov 2025 13:21

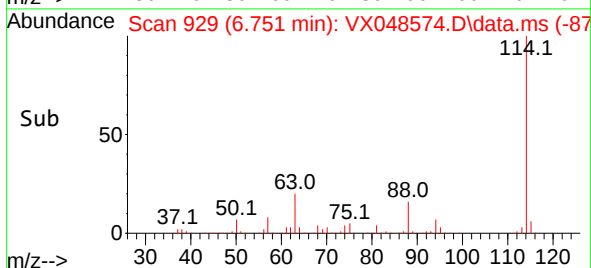
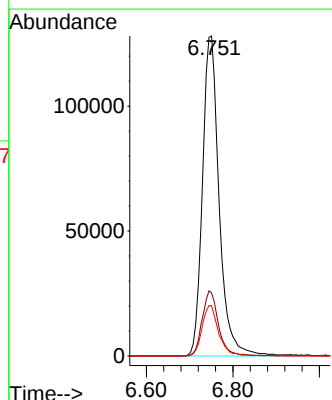
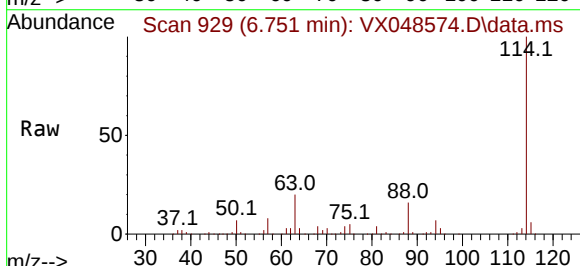
Tgt Ion: 114 Resp: 342073

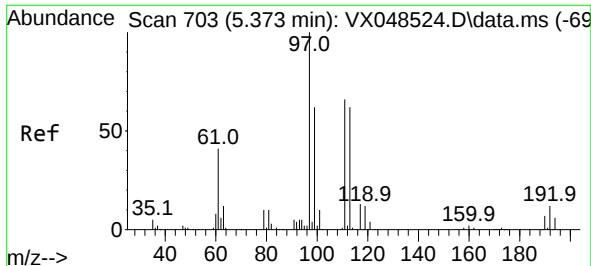
Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.2

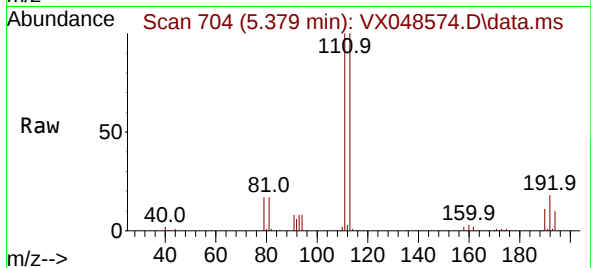
88 15.7 0.0 32.2



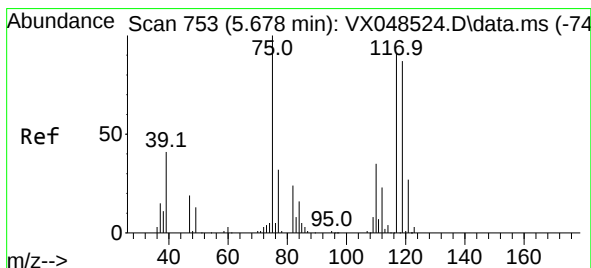
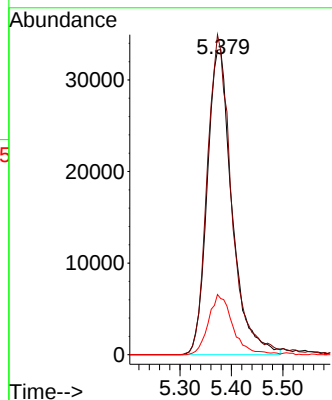
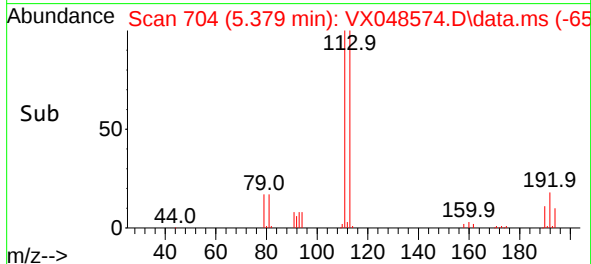


#35
Dibromofluoromethane
Concen: 43.183 ug/l
RT: 5.379 min Scan# 703
Delta R.T. 0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
RT4922

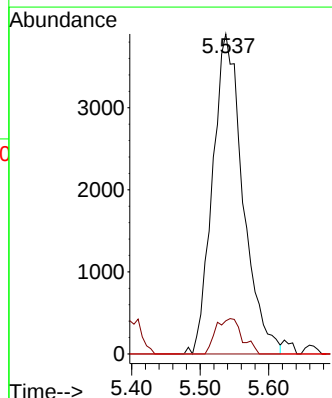
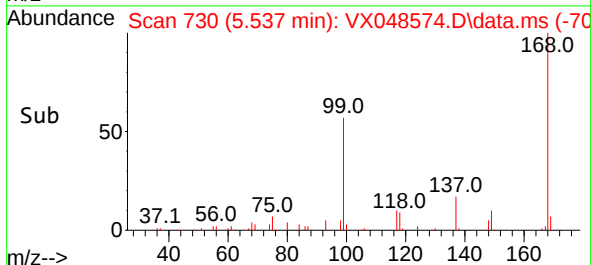
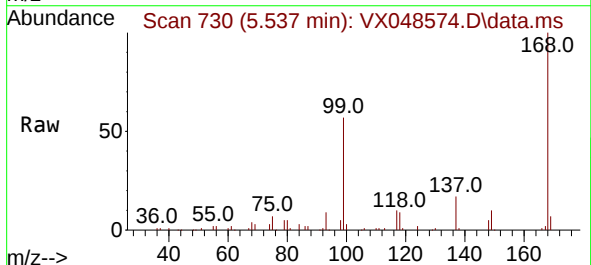


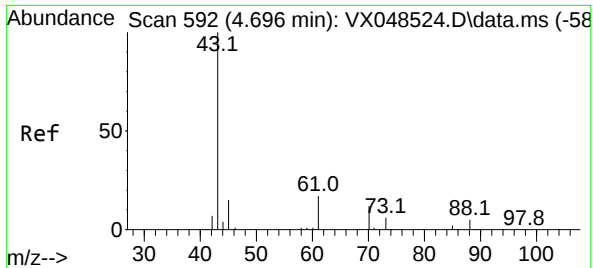
Tgt Ion:113 Resp: 111803
Ion Ratio Lower Upper
113 100
111 103.4 81.9 122.9
192 19.3 15.8 23.6



#36
1,1-Dichloropropene
Concen: 3.459 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.140 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 75 Resp: 11991
Ion Ratio Lower Upper
75 100
110 9.6 18.4 55.4#
77 0.0 24.6 37.0#

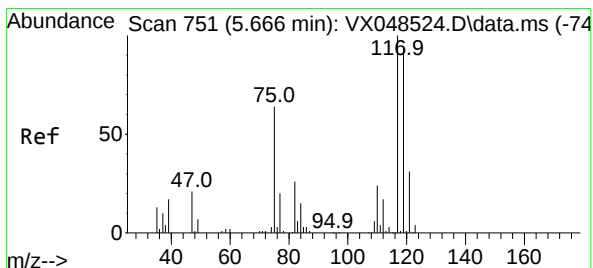
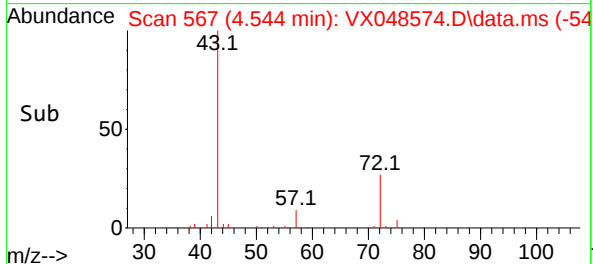
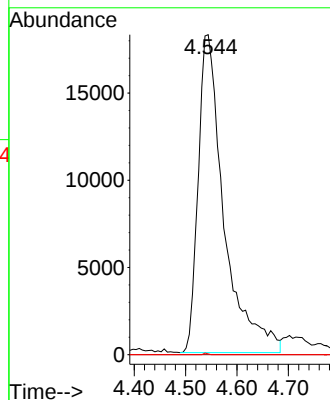
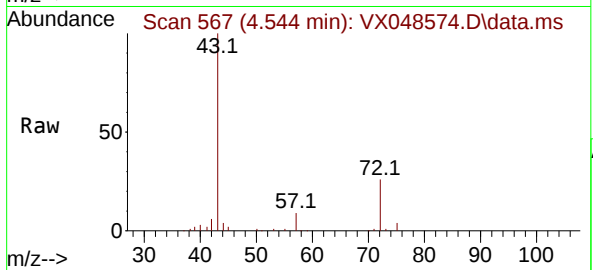




#37
Ethyl Acetate
Concen: 13.030 ug/l
RT: 4.544 min Scan# 51
Delta R.T. -0.153 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

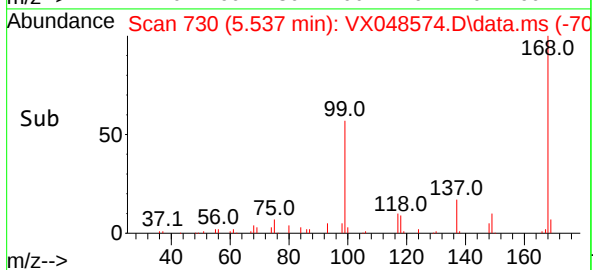
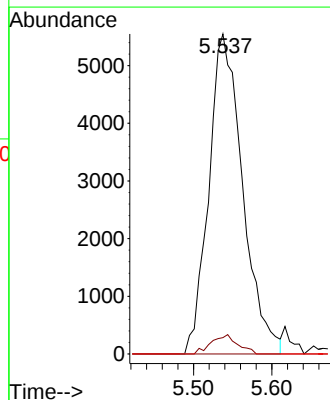
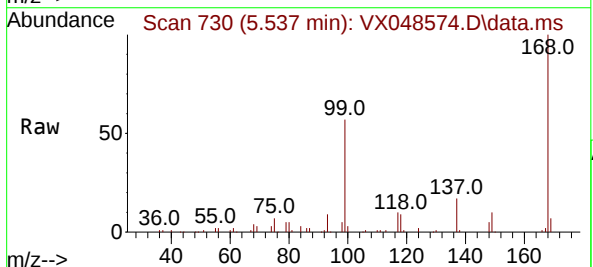
Instrument :
MSVOA_X
ClientSampleId :
RT4922

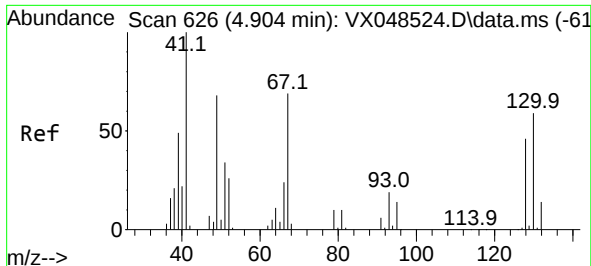
Tgt Ion: 43 Resp: 63588
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.1 7.7 11.5#



#38
Carbon Tetrachloride
Concen: 4.218 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.128 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 117 Resp: 16647
Ion Ratio Lower Upper
117 100
119 5.1 74.5 111.7#
121 0.0 24.8 37.2#

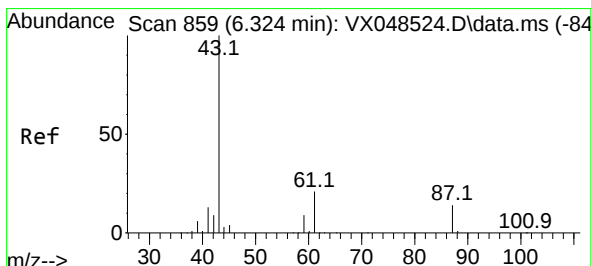
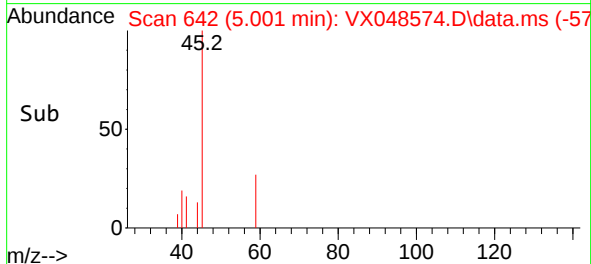
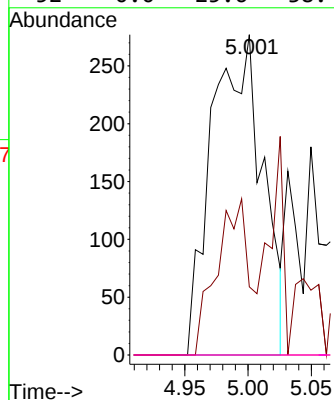
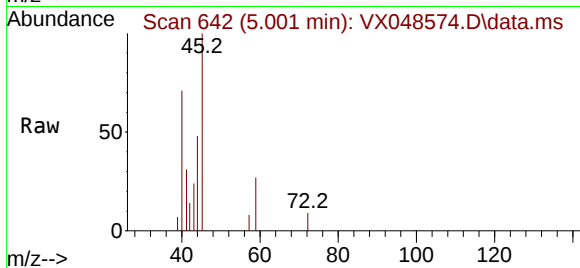




#41
Methacrylonitrile
Concen: 0.361 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.097 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

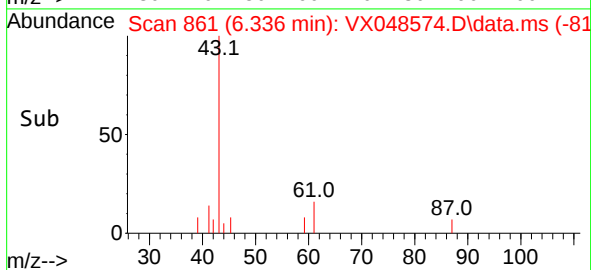
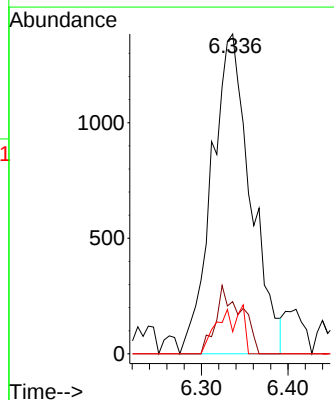
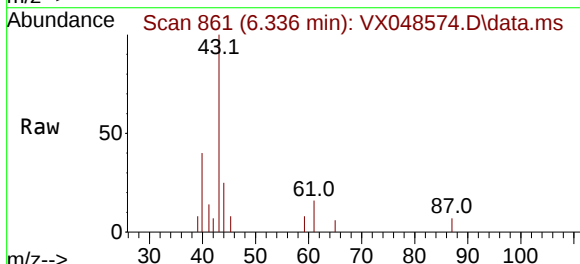
Instrument :
MSVOA_X
ClientSampleId :
RT4922

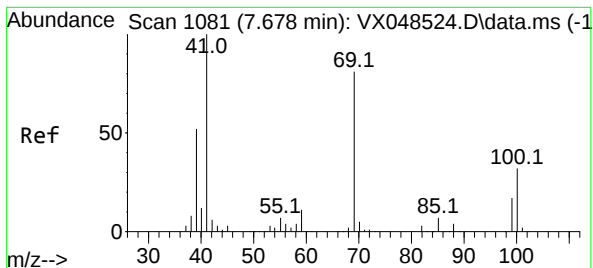
Tgt Ion:	41	Resp:	774
Ion	Ratio	Lower	Upper
41	100		
39	31.4	41.1	61.7#
67	0.0	64.2	96.2#
52	0.0	25.6	38.4#



#43
Isopropyl Acetate
Concen: 0.629 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.012 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion:	43	Resp:	4312
Ion	Ratio	Lower	Upper
43	100		
61	14.0	16.2	24.4#
87	6.1	10.9	16.3#





#48

Methyl methacrylate

Concen: 3.774 ug/l

RT: 7.787 min Scan# 1099

Delta R.T. 0.109 min

Lab File: VX048574.D

Acq: 12 Nov 2025 13:21

Instrument :

MSVOA_X

ClientSampleId :

RT4922

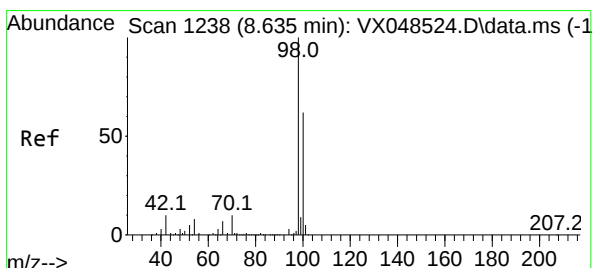
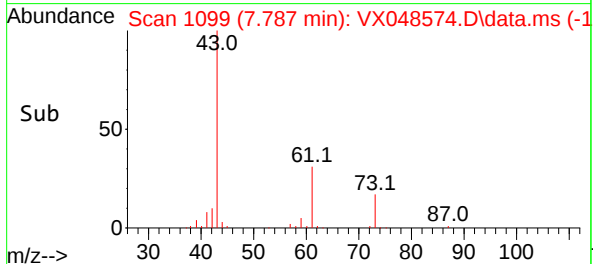
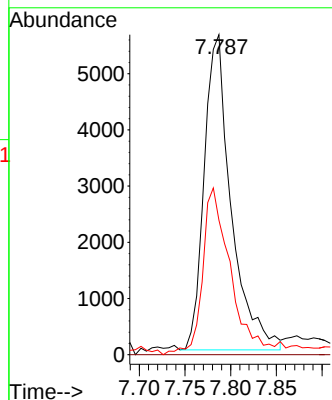
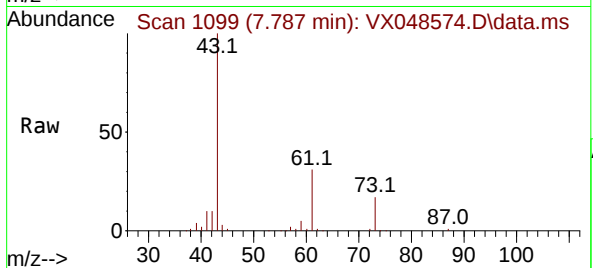
Tgt Ion: 41 Resp: 11508

Ion Ratio Lower Upper

41 100

69 0.0 67.9 101.9#

39 54.7 42.2 63.2



#50

Toluene-d8

Concen: 47.350 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048574.D

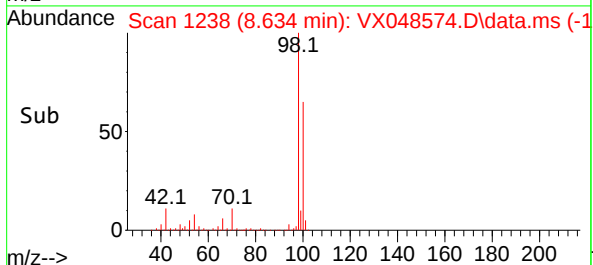
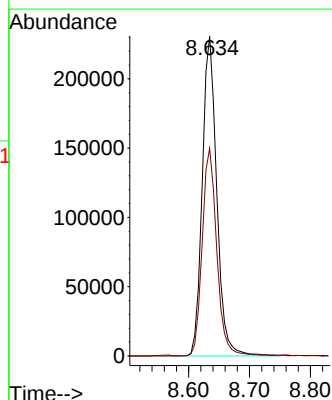
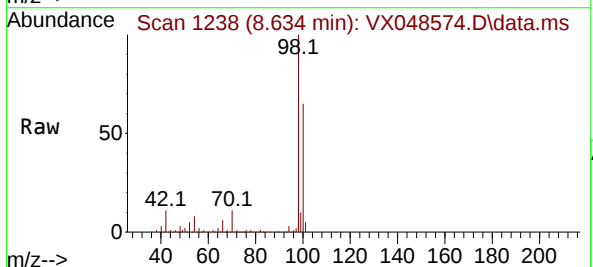
Acq: 12 Nov 2025 13:21

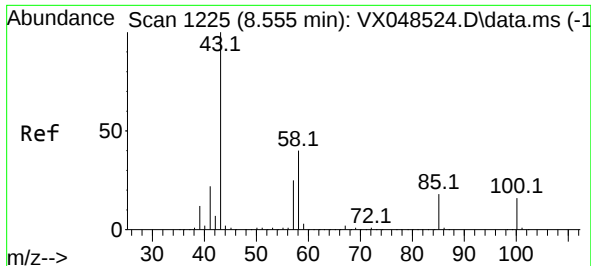
Tgt Ion: 98 Resp: 382335

Ion Ratio Lower Upper

98 100

100 65.3 53.6 80.4

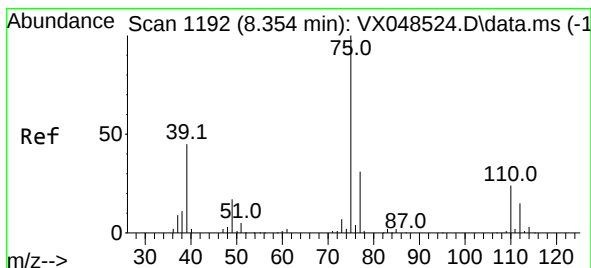
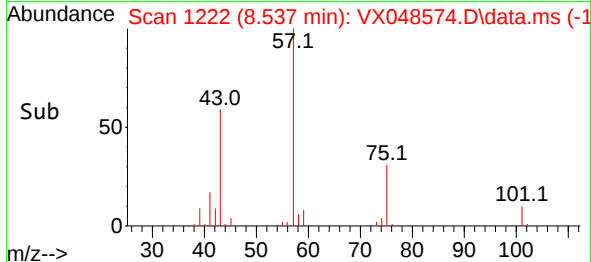
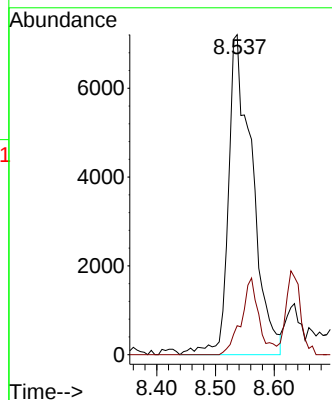
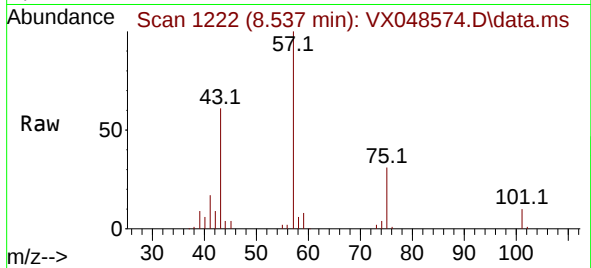




#51
4-Methyl-2-Pentanone
Concen: 5.191 ug/l
RT: 8.537 min Scan# 11
Delta R.T. -0.019 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

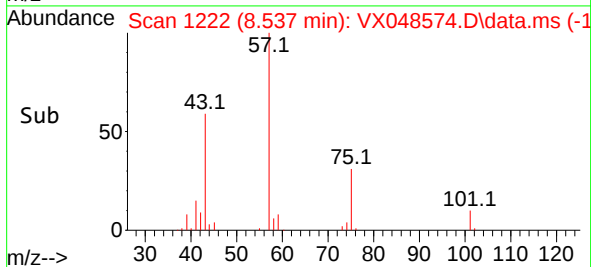
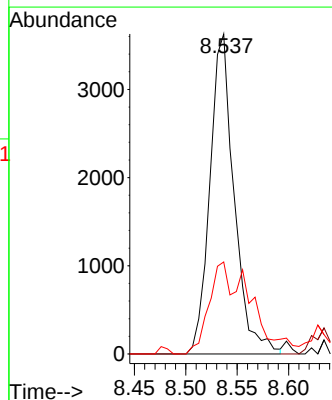
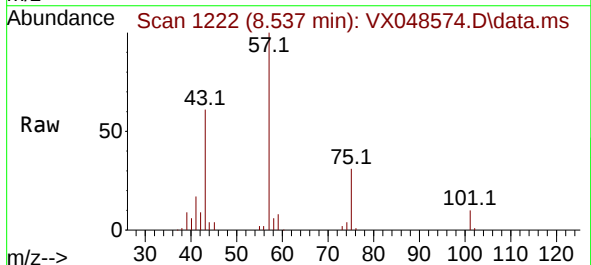
Instrument :
MSVOA_X
ClientSampleId :
RT4922

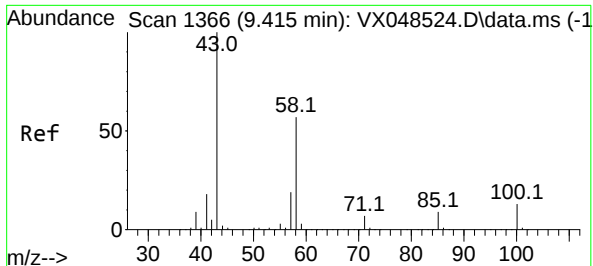
Tgt Ion: 43 Resp: 20269
Ion Ratio Lower Upper
43 100
58 0.0 32.3 48.5#



#54
cis-1,3-Dichloropropene
Concen: 1.555 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. 0.183 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 75 Resp: 5965
Ion Ratio Lower Upper
75 100
77 0.0 24.7 37.1#
39 28.7 36.1 54.1#

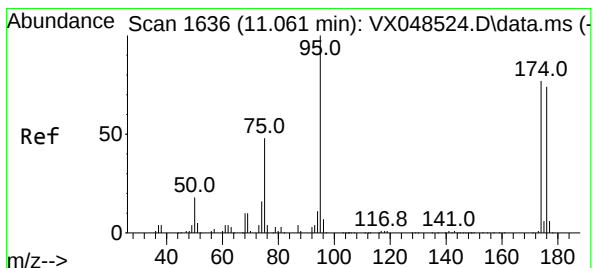
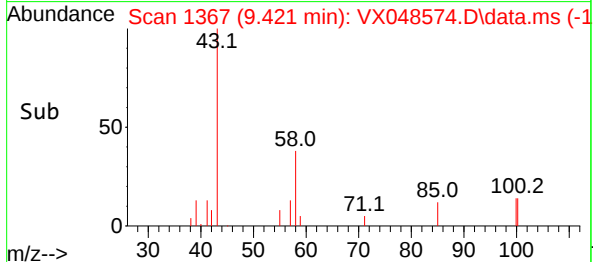
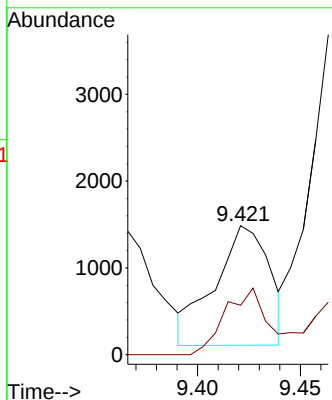
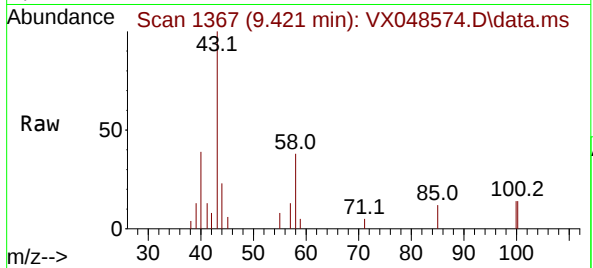




#59
2-Hexanone
Concen: 0.881 ug/l
RT: 9.421 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

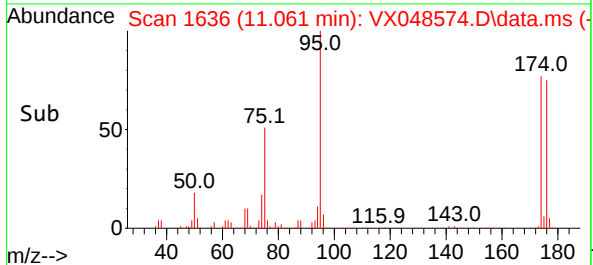
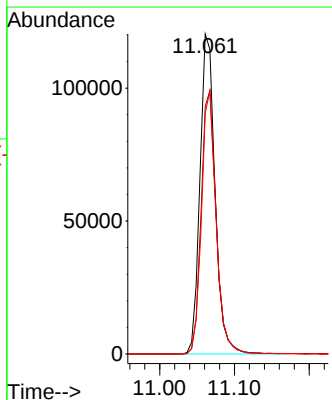
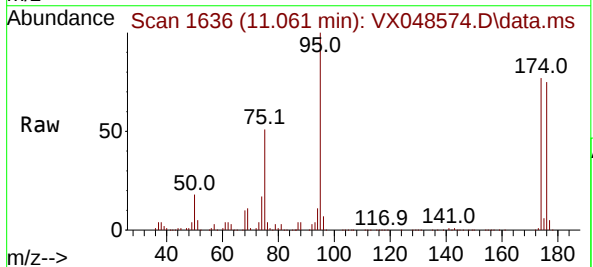
Instrument :
MSVOA_X
ClientSampleId :
RT4922

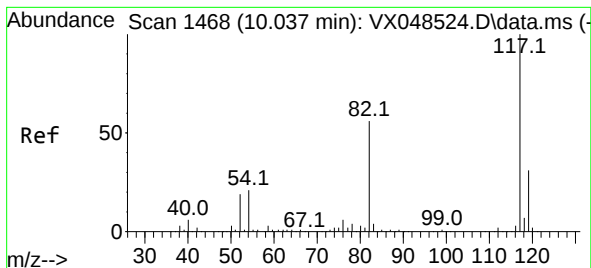
Tgt Ion: 43 Resp: 2559
Ion Ratio Lower Upper
43 100
58 48.8 28.1 84.2



#62
4-Bromofluorobenzene
Concen: 56.058 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 95 Resp: 168689
Ion Ratio Lower Upper
95 100
174 82.2 0.0 161.8
176 79.7 0.0 153.6

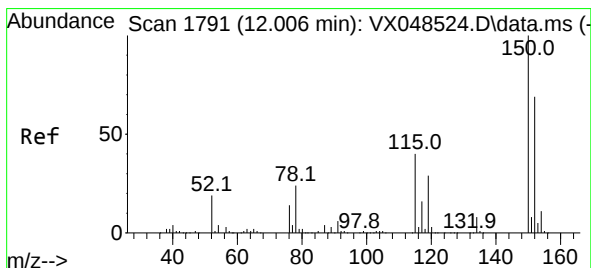
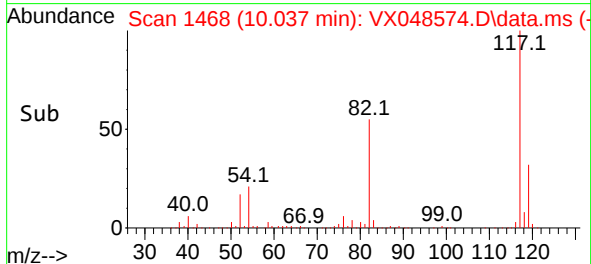
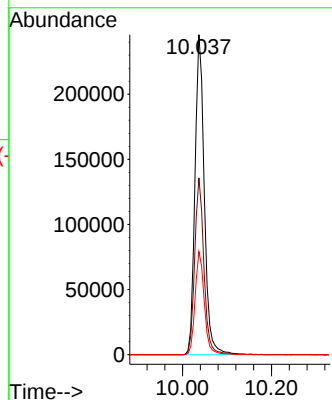
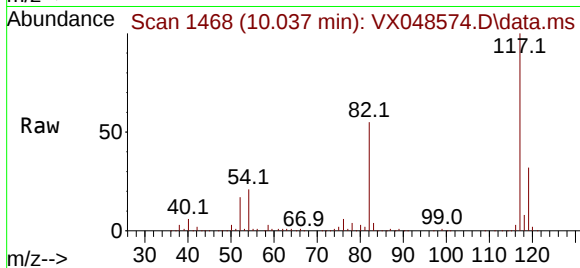




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

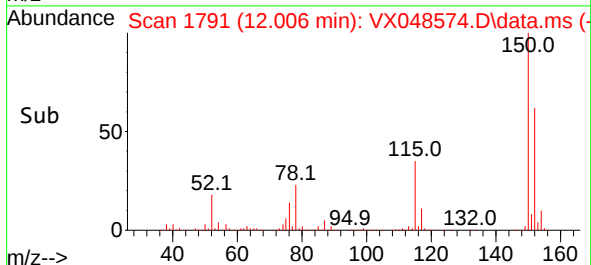
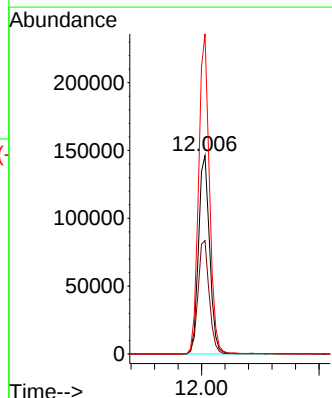
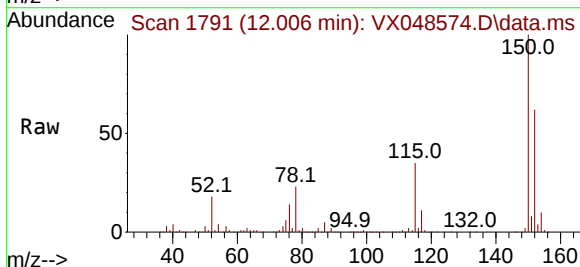
Instrument :
MSVOA_X
ClientSampleId :
RT4922

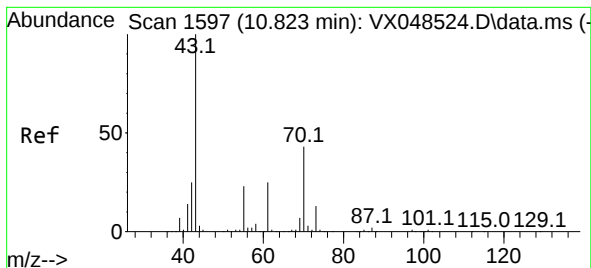
Tgt Ion:117 Resp: 357512
Ion Ratio Lower Upper
117 100
82 55.3 44.4 66.6
119 32.2 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion:152 Resp: 192460
Ion Ratio Lower Upper
152 100
115 57.5 39.2 117.6
150 157.1 0.0 347.0





#74

N-amy1 acetate

Concen: 8.734 ug/l

RT: 10.750 min Scan# 1

Delta R.T. -0.073 min

Lab File: VX048574.D

Acq: 12 Nov 2025 13:21

Instrument :

MSVOA_X

ClientSampleId :

RT4922

Tgt Ion: 43 Resp: 61266

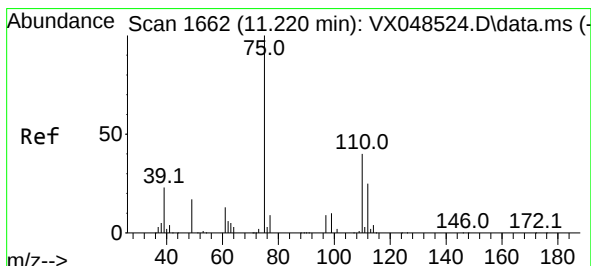
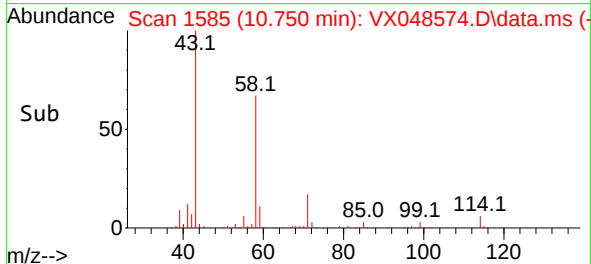
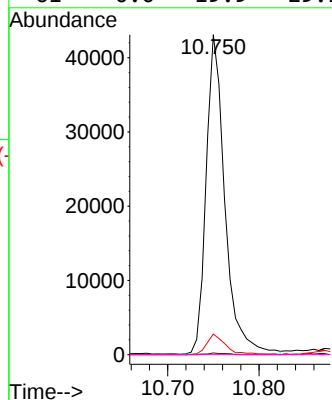
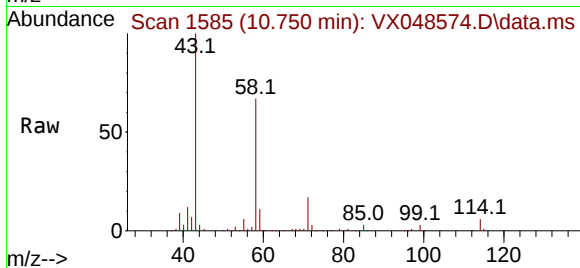
Ion Ratio Lower Upper

43 100

70 0.5 35.1 52.7#

55 6.6 19.3 28.9#

61 0.0 19.9 29.9#



#76

1,2,3-Trichloropropane

Concen: 17.736 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX048574.D

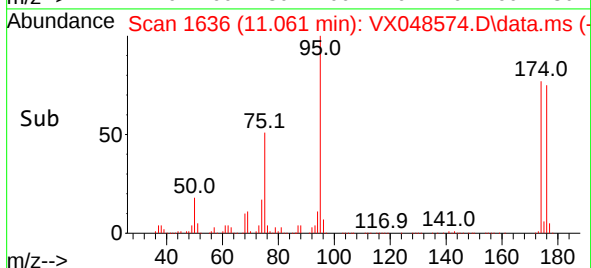
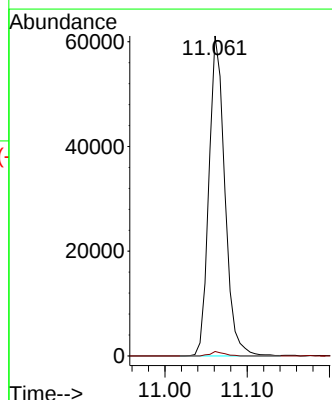
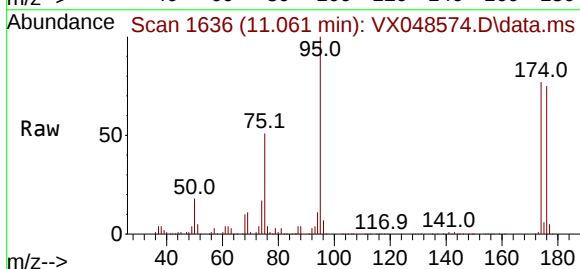
Acq: 12 Nov 2025 13:21

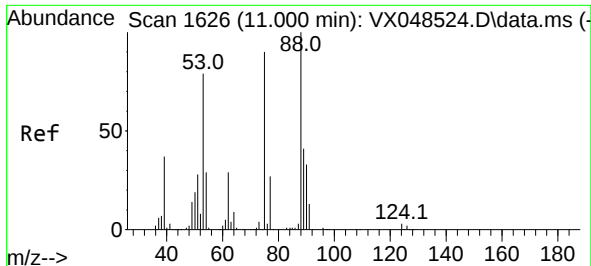
Tgt Ion: 75 Resp: 82236

Ion Ratio Lower Upper

75 100

77 1.2 24.3 72.8#

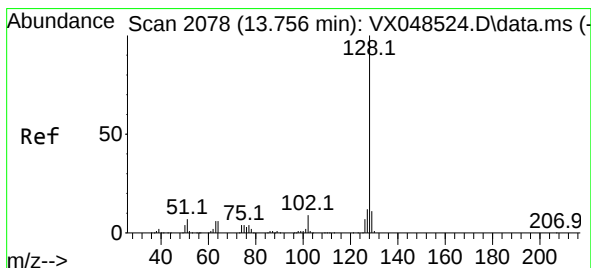
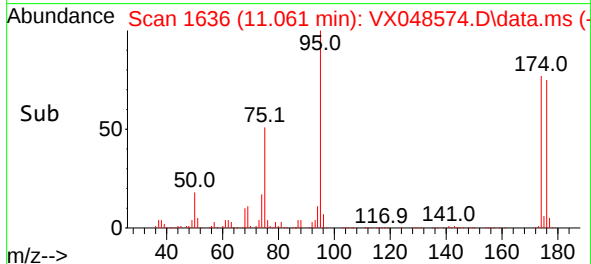
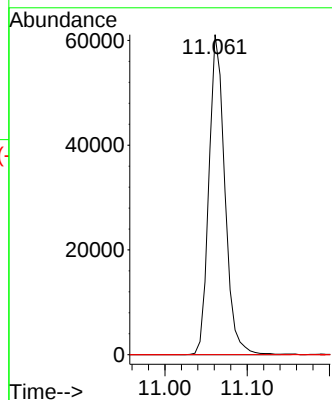
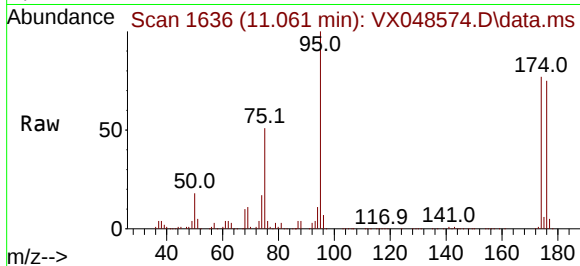




#81
trans-1,4-Dichloro-2-butene
Concen: 50.731 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
RT4922

Tgt Ion: 75 Resp: 82236
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 43.6 65.4#



#95
Naphthalene
Concen: 0.357 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX048574.D
Acq: 12 Nov 2025 13:21

Tgt Ion: 128 Resp: 4956
Ion Ratio Lower Upper
128 100
127 14.8 10.1 15.1
129 10.7 8.7 13.1

