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 Data File : VX048571.D
 Acq On : 12 Nov 2025 12:19
 Operator : JC/MD
 Sample : PB170494TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

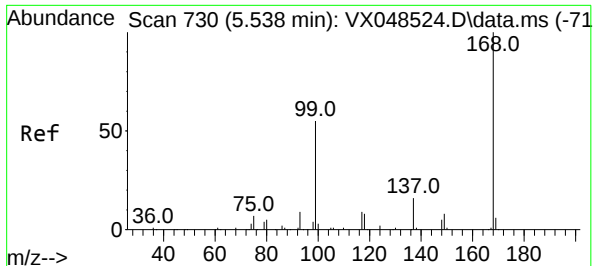
Instrument :
 MSVOA_X
 ClientSampleId :
 PB170494TB

Quant Time: Nov 14 00:27:14 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	186153	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	368248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	387973	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	205577	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	136346	52.564	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 105.120%			
35) Dibromofluoromethane	5.373	113	125134	44.897	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 89.800%			
50) Toluene-d8	8.634	98	440710	50.699	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.400%			
62) 4-Bromofluorobenzene	11.067	95	185495	57.261	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 114.520%			
Target Compounds						Qvalue
10) Methyl Iodide	2.471	142	641	0.209	ug/l #	90
11) Tert butyl alcohol	2.928	59	2146	4.366	ug/l #	81
16) Acetone	2.373	43	20700	16.859	ug/l	95
18) Methyl Acetate	2.696	43	5385	1.596	ug/l	95
20) Methylene Chloride	2.794	84	14144	5.603	ug/l	97
25) 2-Butanone	4.550	43	12782	7.037	ug/l #	89
29) Tetrahydrofuran	5.013	42	987	0.762	ug/l #	72
31) Cyclohexane	5.537	56	3350	0.962	ug/l #	1
36) 1,1-Dichloropropene	5.537	75	13783	3.693	ug/l #	48
37) Ethyl Acetate	4.714	43	1055	0.201	ug/l #	82
38) Carbon Tetrachloride	5.537	117	18557	4.368	ug/l #	17
41) Methacrylonitrile	5.019	41	503	0.218	ug/l #	29
43) Isopropyl Acetate	6.330	43	15021	2.034	ug/l	97
48) Methyl methacrylate	7.781	41	69990	21.320	ug/l #	41
49) 1,4-Dioxane	7.787	88	104	2.079	ug/l #	1
51) 4-Methyl-2-Pentanone	8.531	43	61072	14.528	ug/l #	49
54) cis-1,3-Dichloropropene	8.531	75	29477	7.138	ug/l #	61
57) 1,3-Dichloropropane	9.470	76	2688	0.635	ug/l #	42
59) 2-Hexanone	9.421	43	4566	1.460	ug/l	88
76) 1,2,3-Trichloropropane	11.067	75	92579	18.693	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.067	75	92579	53.467	ug/l #	12

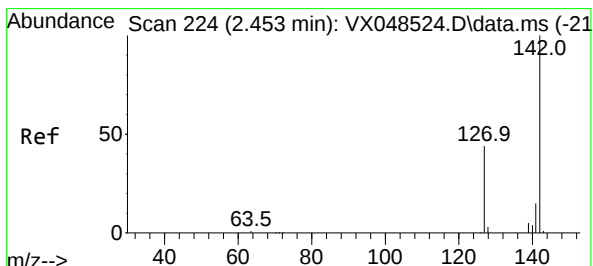
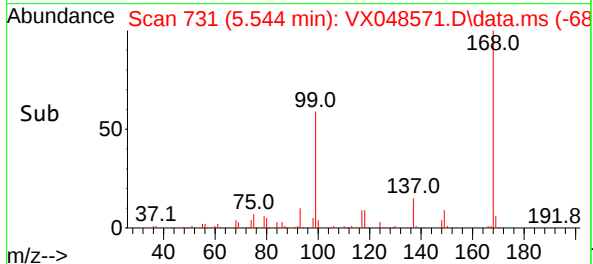
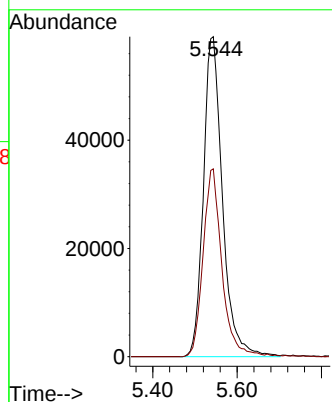
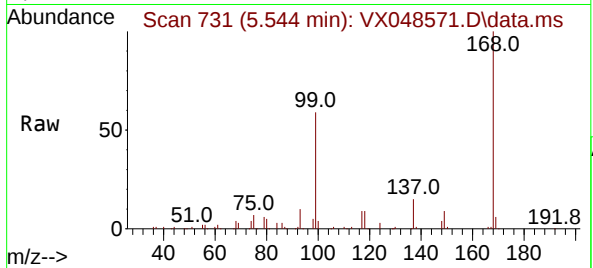
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

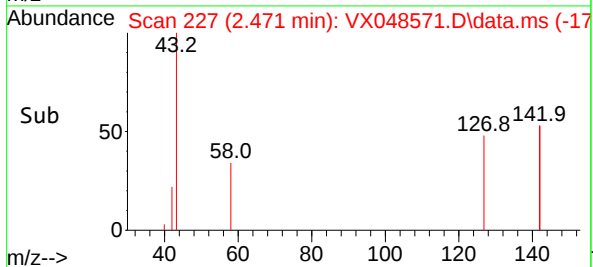
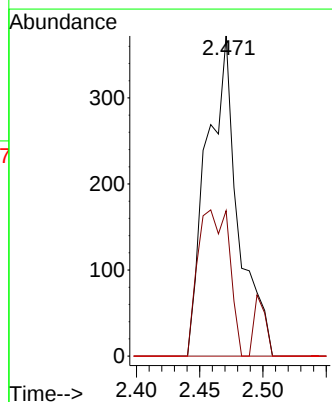
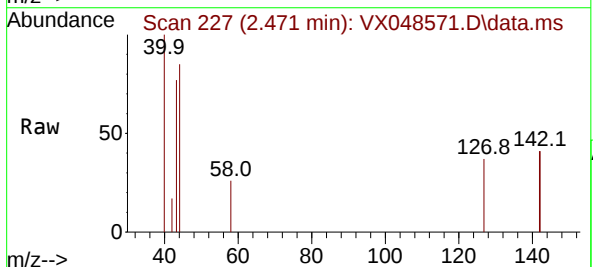
Instrument :
MSVOA_X
ClientSampleId :
PB170494TB

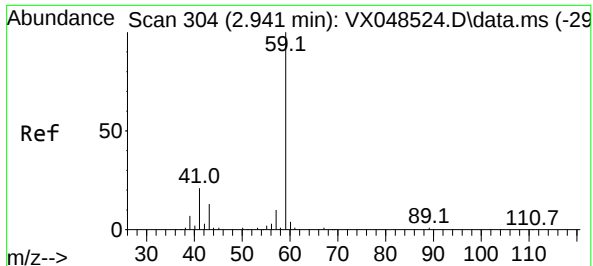
Tgt Ion:168 Resp: 186153
Ion Ratio Lower Upper
168 100
99 58.7 45.2 67.8



#10
Methyl Iodide
Concen: 0.209 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.018 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion:142 Resp: 641
Ion Ratio Lower Upper
142 100
127 45.9 35.8 53.6
141 0.0 11.4 17.0#

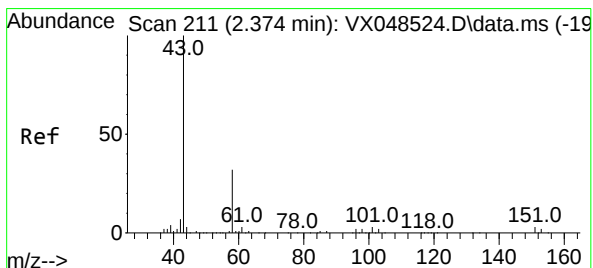
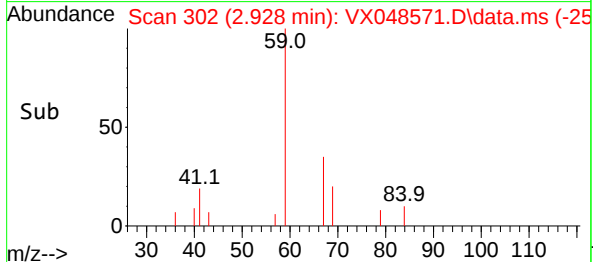
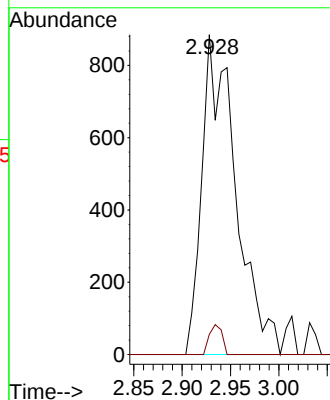
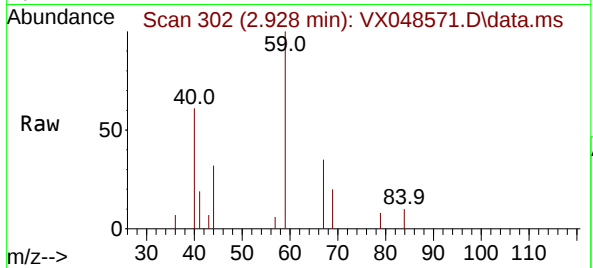




#11
Tert butyl alcohol
Concen: 4.366 ug/l
RT: 2.928 min Scan# 304
Delta R.T. -0.012 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

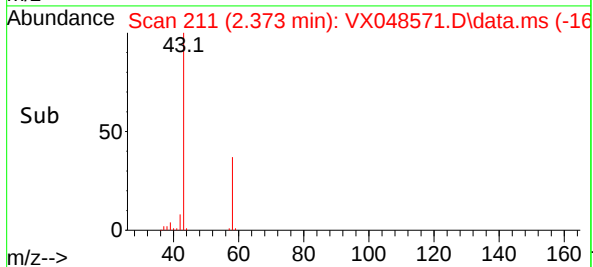
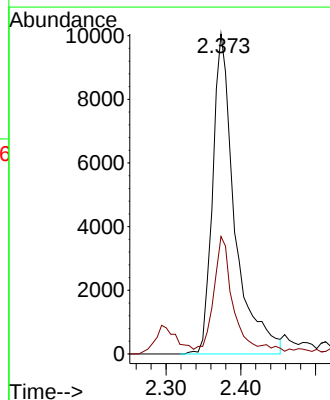
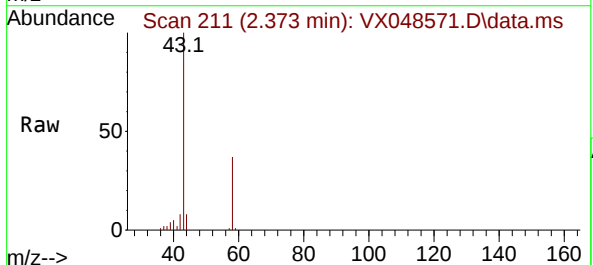
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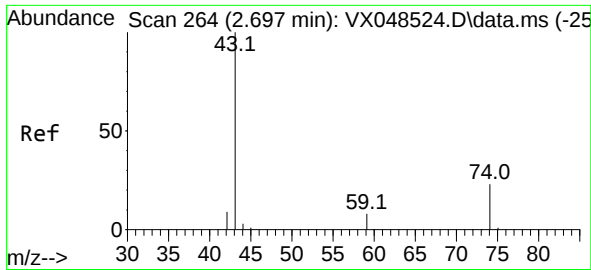
Tgt Ion: 59 Resp: 2146
Ion Ratio Lower Upper
59 100
57 3.5 8.6 13.0#



#16
Acetone
Concen: 16.859 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 43 Resp: 20700
Ion Ratio Lower Upper
43 100
58 34.9 25.8 38.6

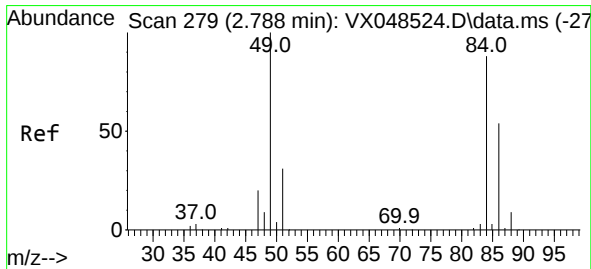
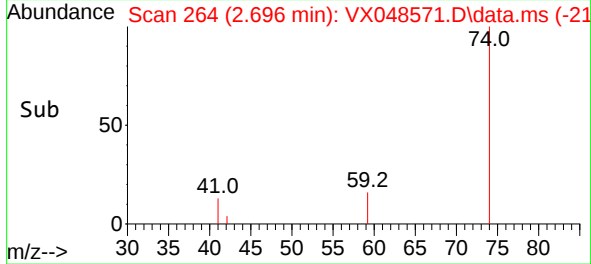
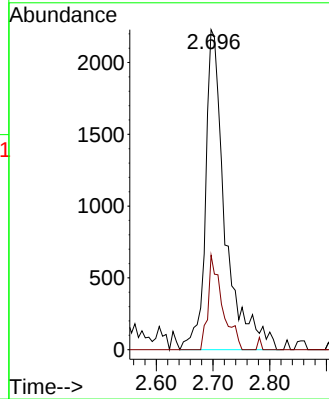
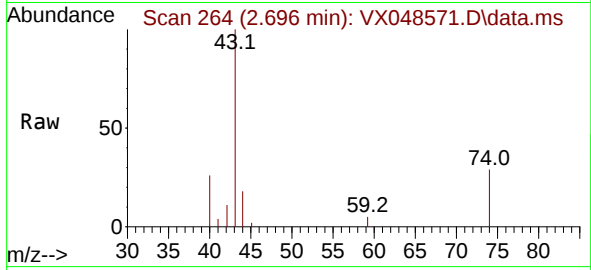




#18
Methyl Acetate
Concen: 1.596 ug/l
RT: 2.696 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

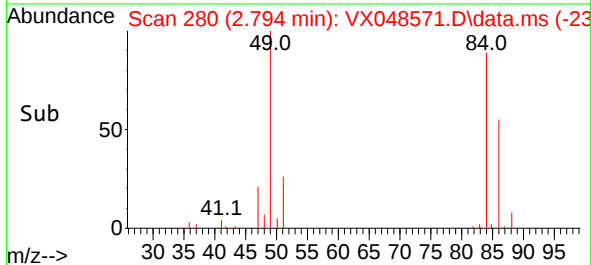
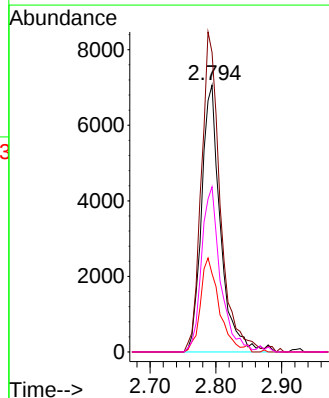
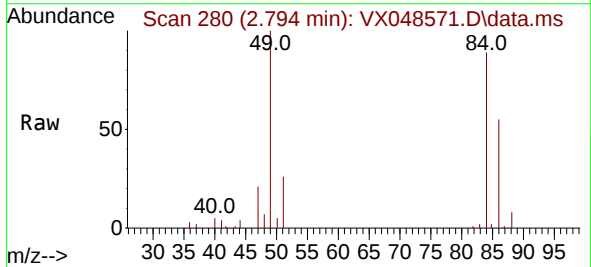
Instrument :
MSVOA_X
ClientSampleId :
PB170494TB

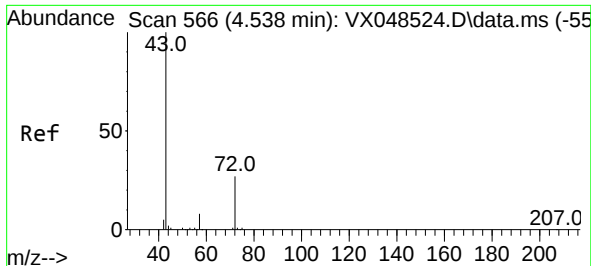
Tgt Ion: 43 Resp: 5385
Ion Ratio Lower Upper
43 100
74 21.4 19.1 28.7



#20
Methylene Chloride
Concen: 5.603 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 84 Resp: 14144
Ion Ratio Lower Upper
84 100
49 112.3 91.2 136.8
51 29.3 28.3 42.5
86 61.9 49.4 74.2

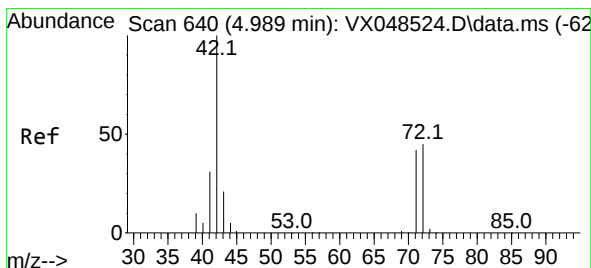
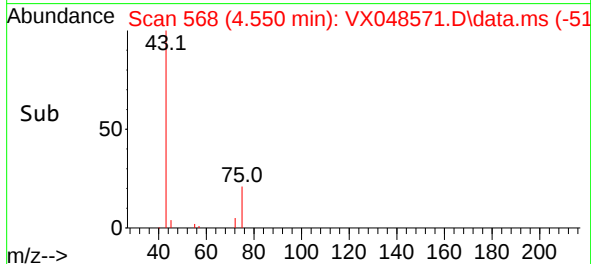
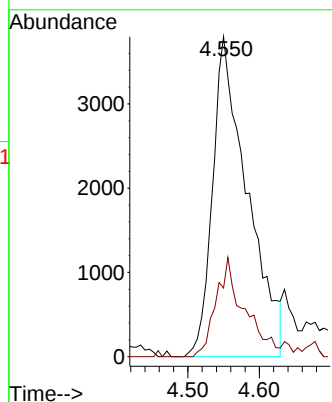
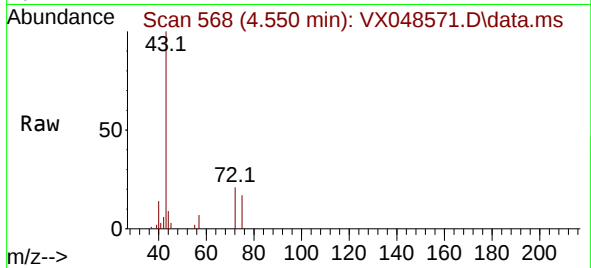




#25
2-Butanone
Concen: 7.037 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.012 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

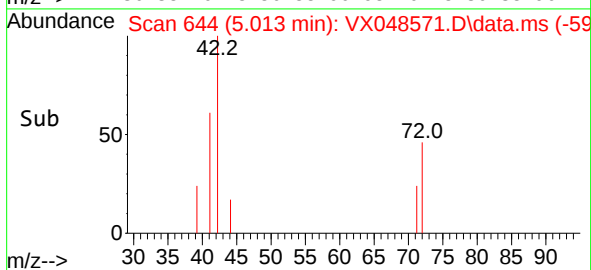
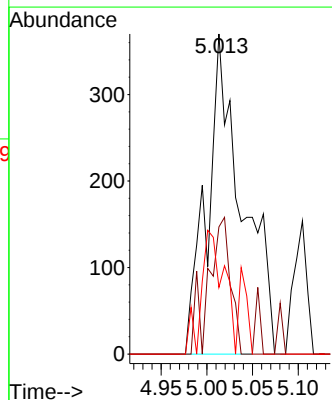
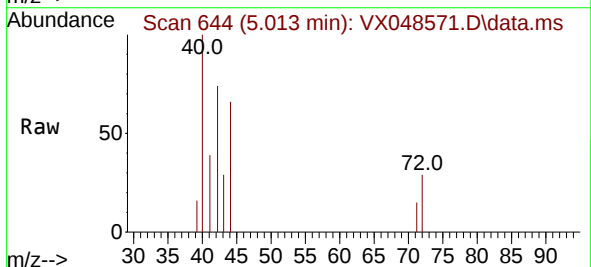
Instrument :
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ClientSampleId :
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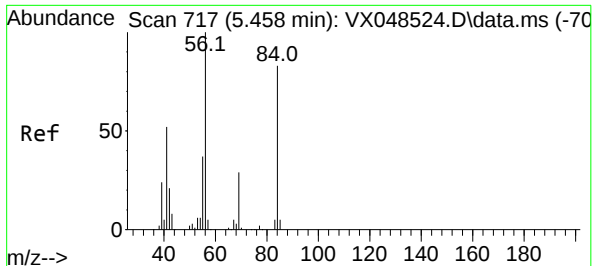
Tgt Ion: 43 Resp: 12782
Ion Ratio Lower Upper
43 100
72 21.5 21.5 32.3#



#29
Tetrahydrofuran
Concen: 0.762 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 42 Resp: 987
Ion Ratio Lower Upper
42 100
72 27.1 36.3 54.5#
71 25.1 34.1 51.1#

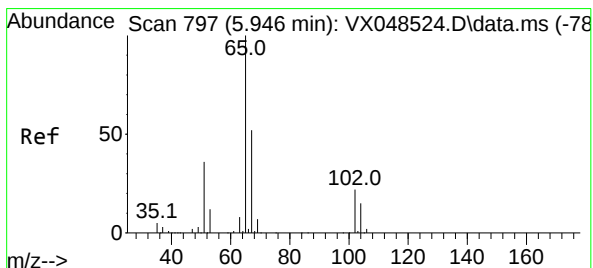
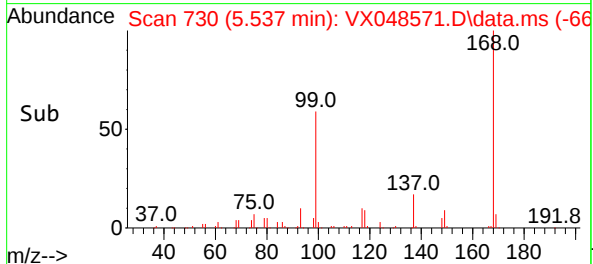
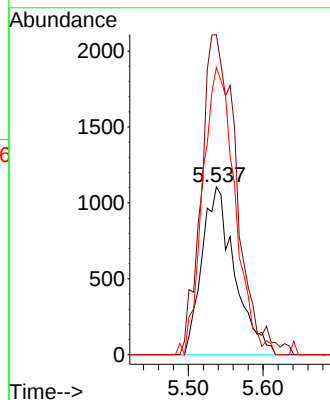
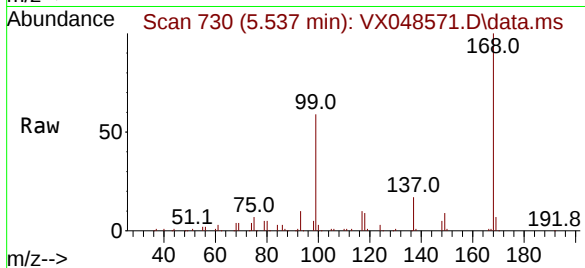




#31
Cyclohexane
Concen: 0.962 ug/l
RT: 5.537 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

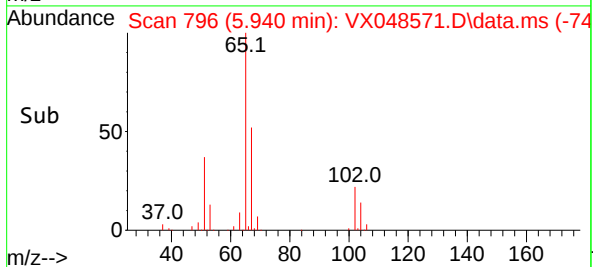
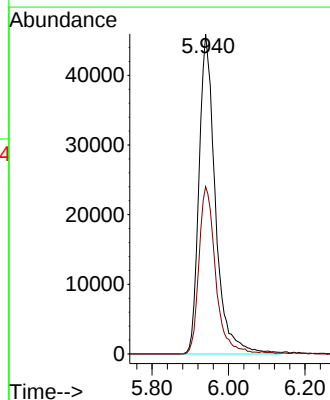
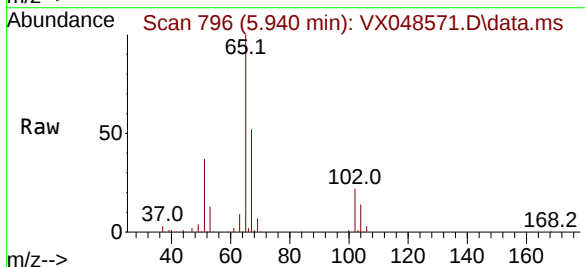
Instrument :
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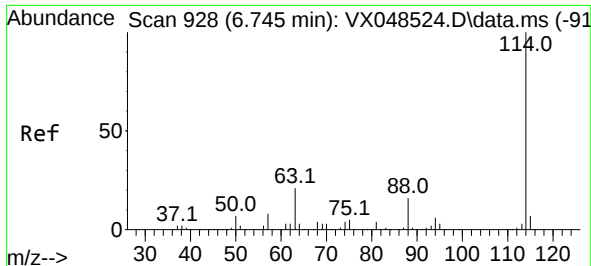
Tgt Ion: 56 Resp: 3350
Ion Ratio Lower Upper
56 100
69 190.6 23.4 35.2#
84 171.1 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 52.564 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.006 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 65 Resp: 136346
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.2

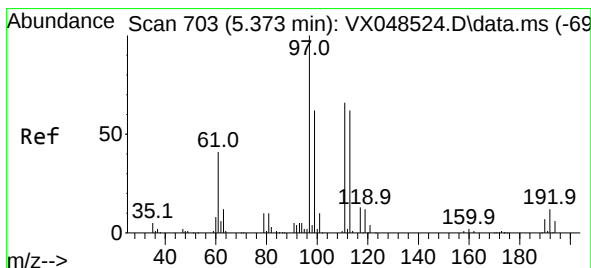
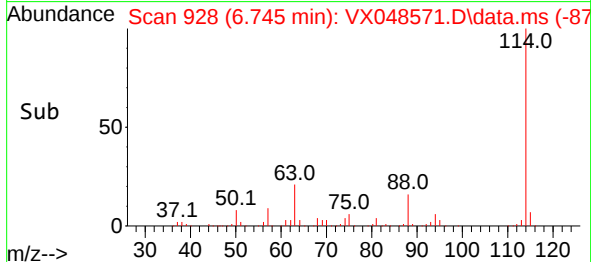
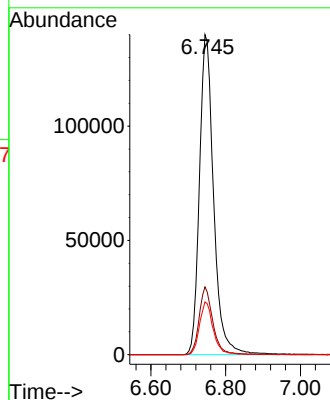
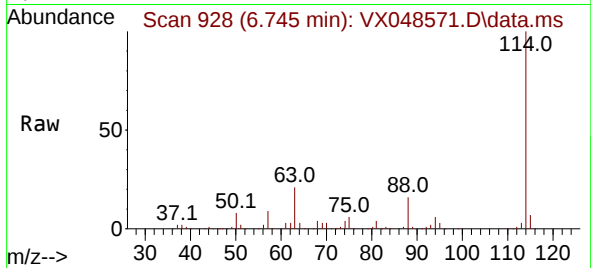




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

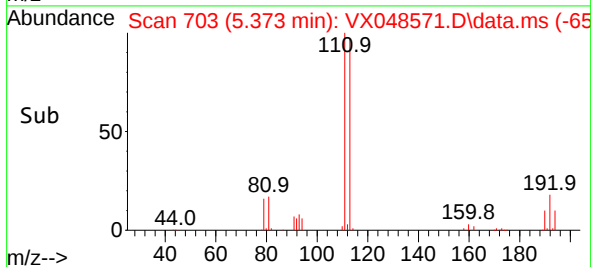
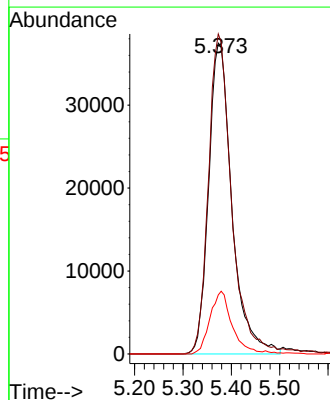
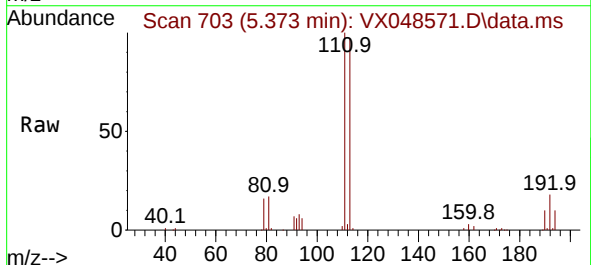
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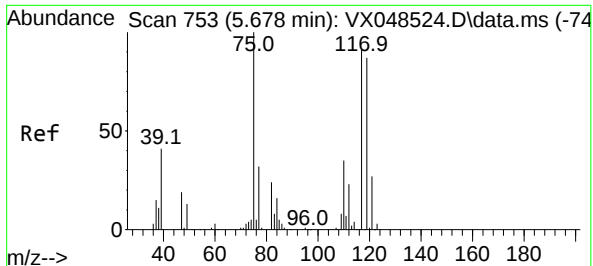
Tgt Ion:114 Resp: 368248
Ion Ratio Lower Upper
114 100
63 21.2 0.0 41.2
88 16.5 0.0 32.2



#35
Dibromofluoromethane
Concen: 44.897 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion:113 Resp: 125134
Ion Ratio Lower Upper
113 100
111 103.1 81.9 122.9
192 19.0 15.8 23.6

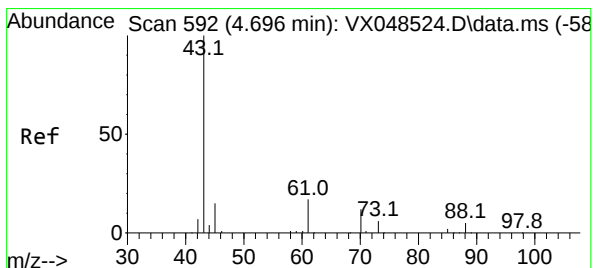
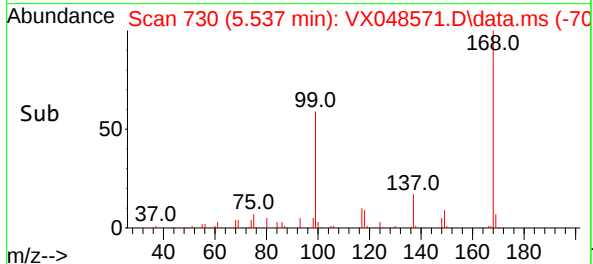
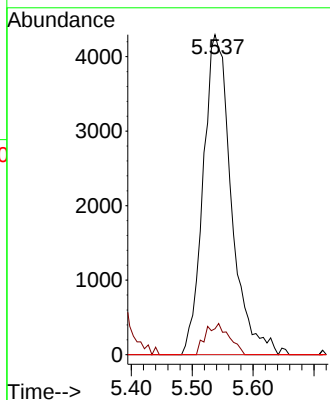
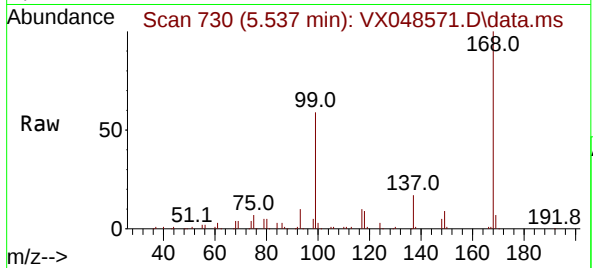




#36
1,1-Dichloropropene
Concen: 3.693 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

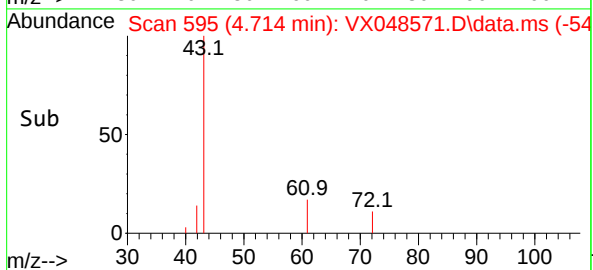
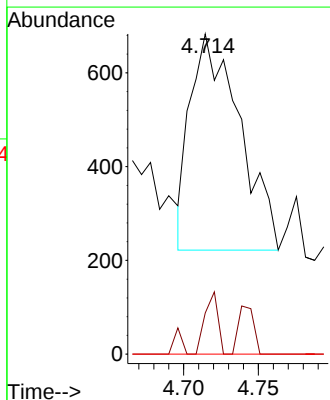
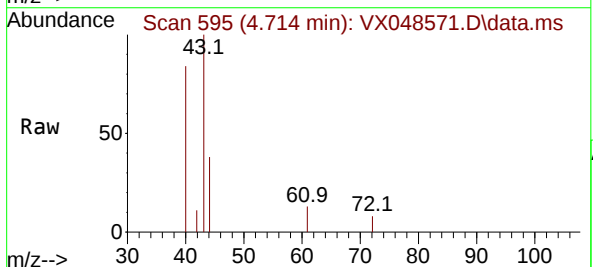
Instrument :
MSVOA_X
ClientSampleId :
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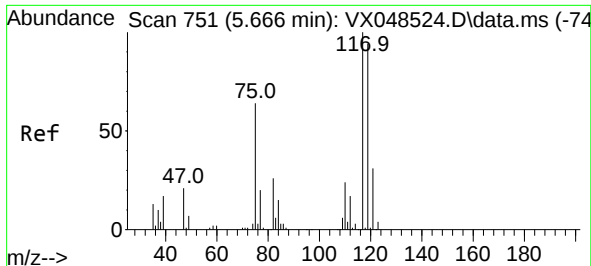
Tgt Ion: 75 Resp: 13783
Ion Ratio Lower Upper
75 100
110 8.1 18.4 55.4#
77 0.0 24.6 37.0#



#37
Ethyl Acetate
Concen: 0.201 ug/l
RT: 4.714 min Scan# 595
Delta R.T. 0.018 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 43 Resp: 1055
Ion Ratio Lower Upper
43 100
61 7.7 9.7 14.5#
70 0.0 7.7 11.5#

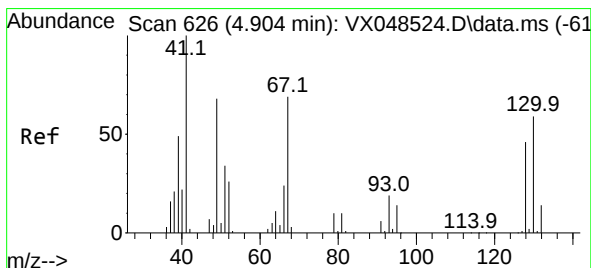
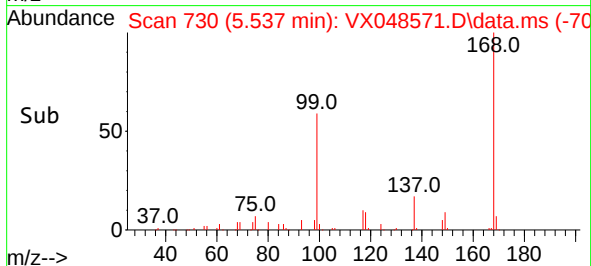
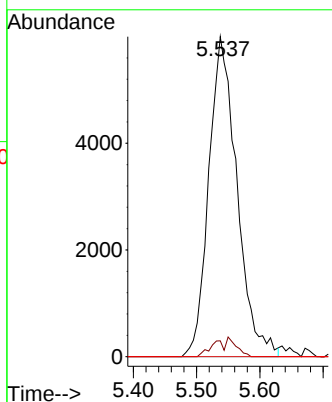
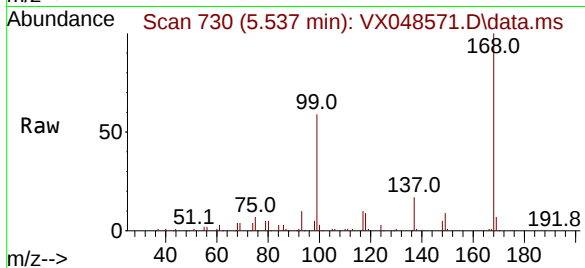




#38
Carbon Tetrachloride
Concen: 4.368 ug/l
RT: 5.537 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

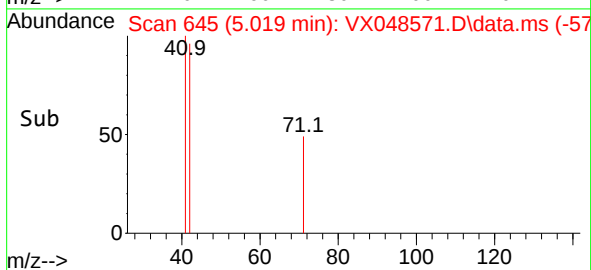
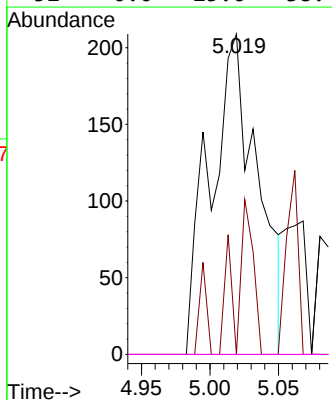
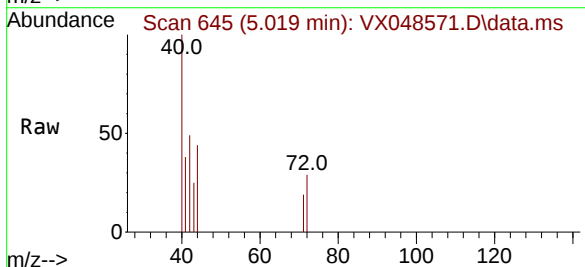
Instrument :
MSVOA_X
ClientSampleId :
PB170494TB

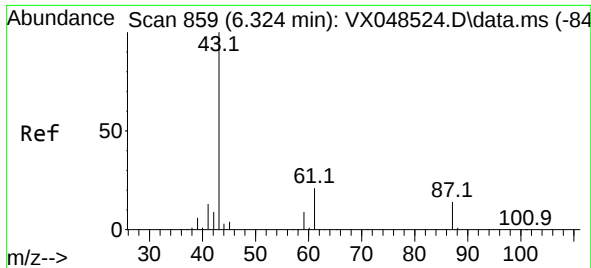
Tgt Ion:117 Resp: 18557
Ion Ratio Lower Upper
117 100
119 5.0 74.5 111.7#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.218 ug/l
RT: 5.019 min Scan# 645
Delta R.T. 0.116 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 41 Resp: 503
Ion Ratio Lower Upper
41 100
39 17.9 41.1 61.7#
67 0.0 64.2 96.2#
52 0.0 25.6 38.4#

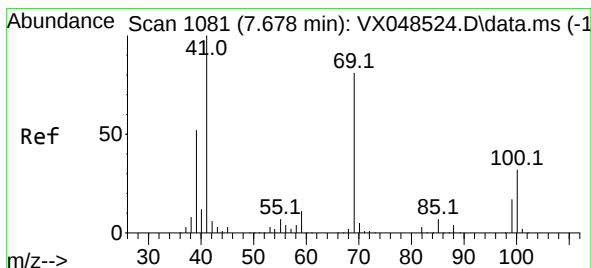
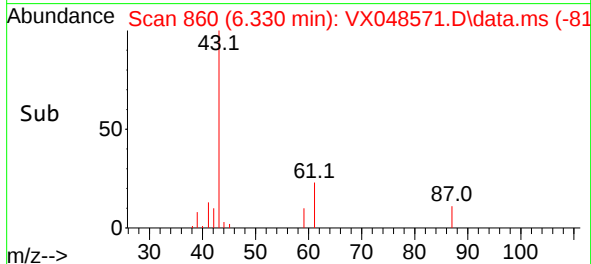
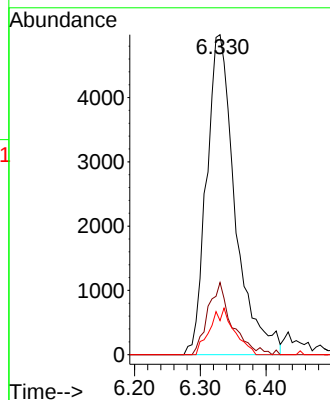
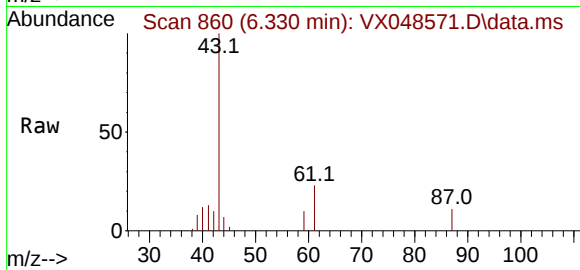




#43
Isopropyl Acetate
Concen: 2.034 ug/l
RT: 6.330 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

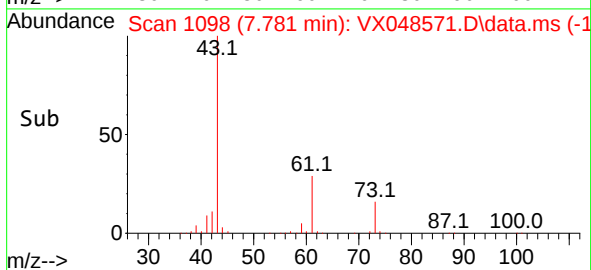
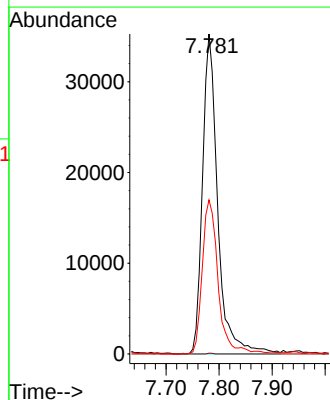
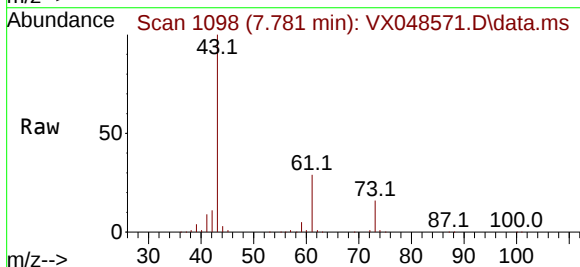
Instrument :
MSVOA_X
ClientSampleId :
PB170494TB

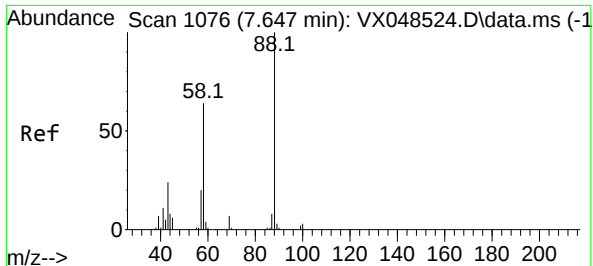
Tgt Ion:	43	Resp:	15021
Ion	Ratio	Lower	Upper
43	100		
61	18.9	16.2	24.4
87	12.4	10.9	16.3



#48
Methyl methacrylate
Concen: 21.320 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.103 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion:	41	Resp:	69990
Ion	Ratio	Lower	Upper
41	100		
69	0.1	67.9	101.9#
39	50.3	42.2	63.2





#49

1,4-Dioxane

Concen: 2.079 ug/l

RT: 7.787 min Scan# 1099

Delta R.T. 0.140 min

Lab File: VX048571.D

Acq: 12 Nov 2025 12:19

Instrument :

MSVOA_X

ClientSampleId :

PB170494TB

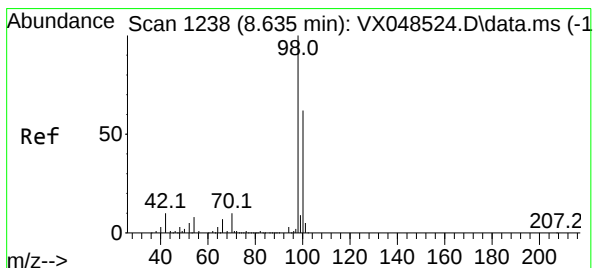
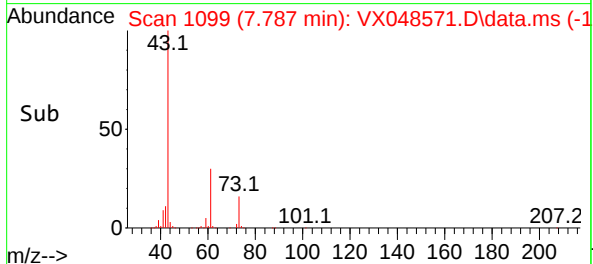
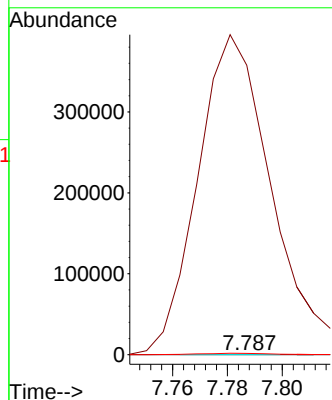
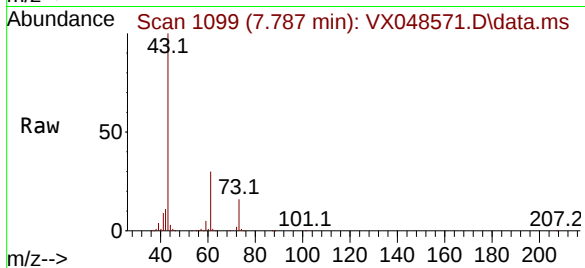
Tgt Ion: 88 Resp: 104

Ion Ratio Lower Upper

88 100

43 747495.2 25.1 37.7#

58 3383.7 56.7 85.1#



#50

Toluene-d8

Concen: 50.699 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048571.D

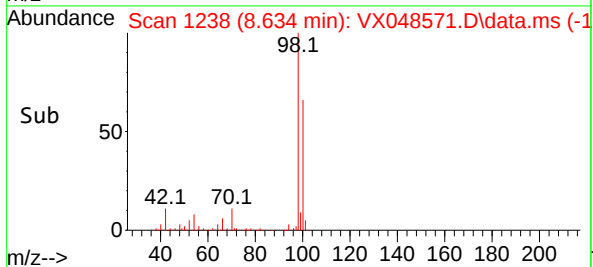
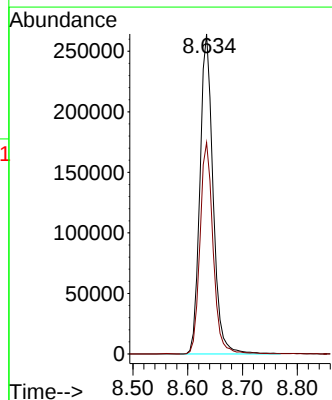
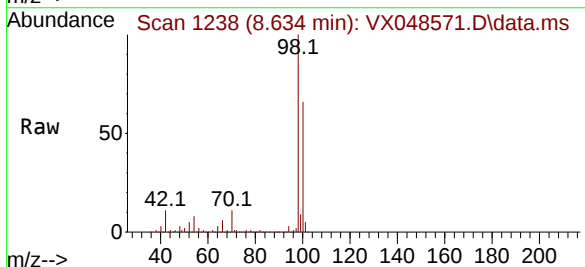
Acq: 12 Nov 2025 12:19

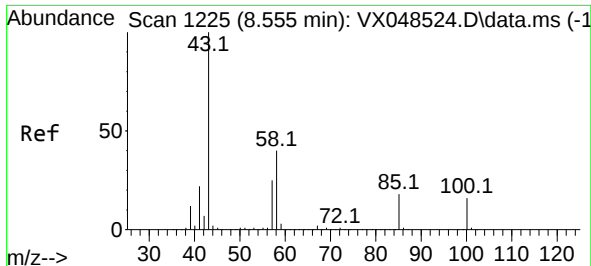
Tgt Ion: 98 Resp: 440710

Ion Ratio Lower Upper

98 100

100 65.8 53.6 80.4





#51

4-Methyl-2-Pentanone

Concen: 14.528 ug/l

RT: 8.531 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX048571.D

Acq: 12 Nov 2025 12:19

Instrument :

MSVOA_X

ClientSampleId :

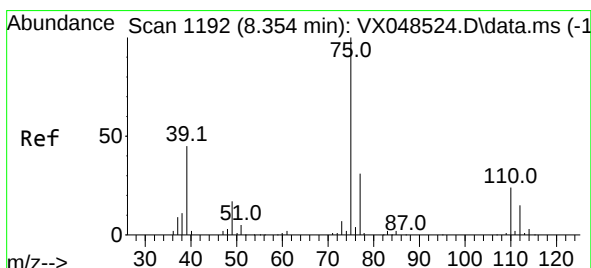
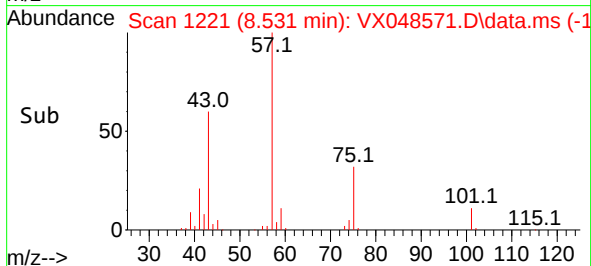
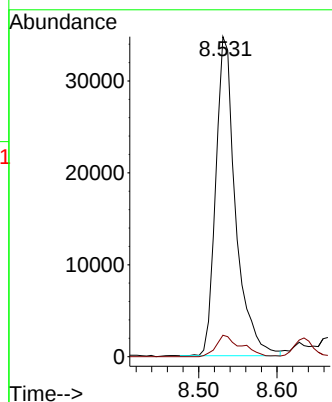
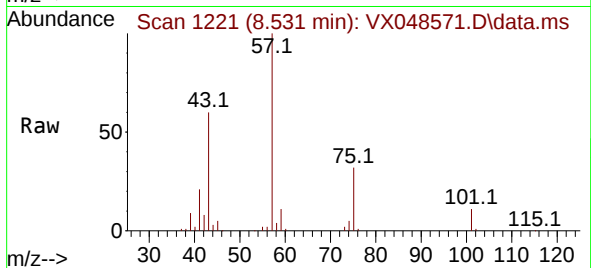
PB170494TB

Tgt Ion: 43 Resp: 61072

Ion Ratio Lower Upper

43 100

58 8.5 32.3 48.5#



#54

cis-1,3-Dichloropropene

Concen: 7.138 ug/l

RT: 8.531 min Scan# 1221

Delta R.T. 0.177 min

Lab File: VX048571.D

Acq: 12 Nov 2025 12:19

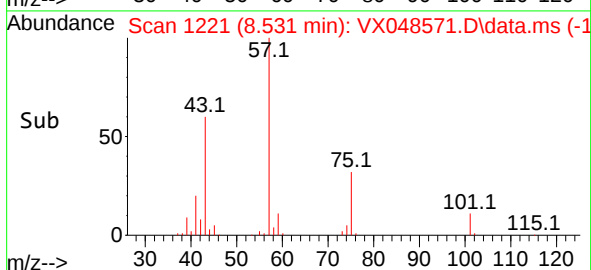
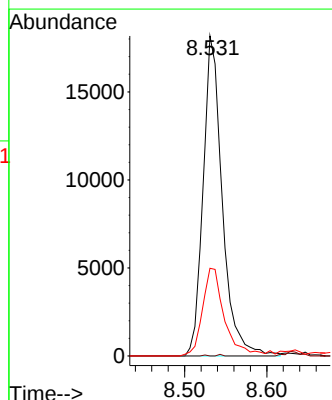
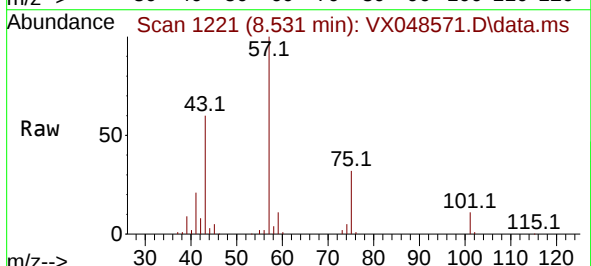
Tgt Ion: 75 Resp: 29477

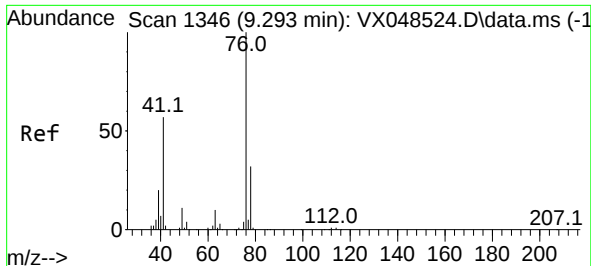
Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#

39 27.4 36.1 54.1#





#57

1,3-Dichloropropane

Concen: 0.635 ug/l

RT: 9.470 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX048571.D

Acq: 12 Nov 2025 12:19

Instrument :

MSVOA_X

ClientSampleId :

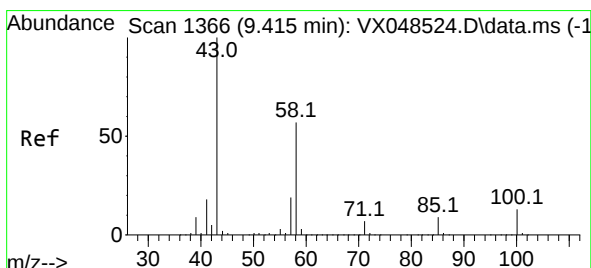
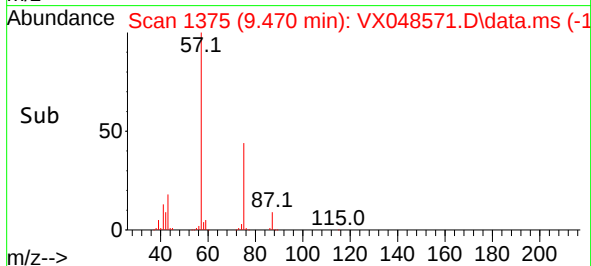
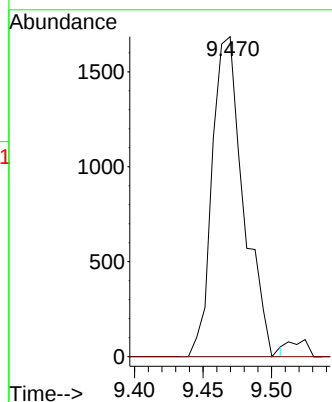
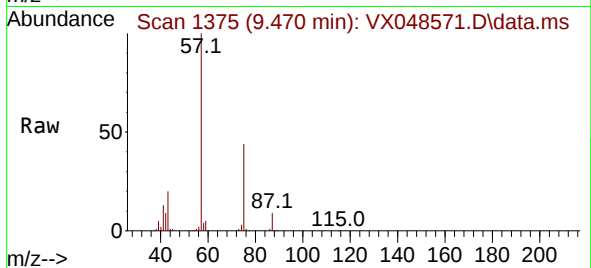
PB170494TB

Tgt Ion: 76 Resp: 2688

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 1.460 ug/l

RT: 9.421 min Scan# 1367

Delta R.T. 0.006 min

Lab File: VX048571.D

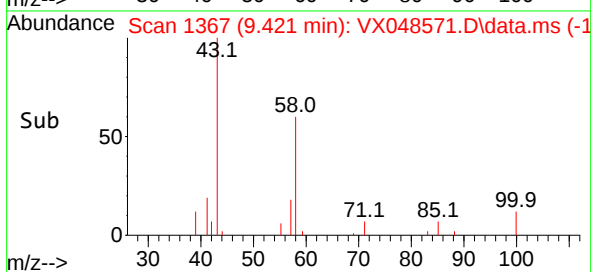
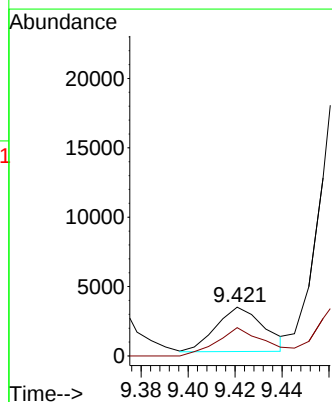
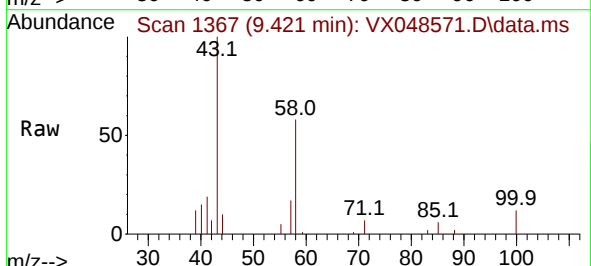
Acq: 12 Nov 2025 12:19

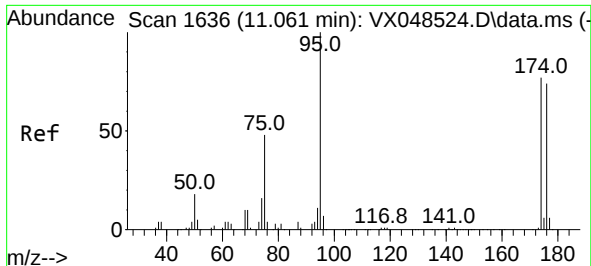
Tgt Ion: 43 Resp: 4566

Ion Ratio Lower Upper

43 100

58 64.8 28.1 84.2





#62

4-Bromofluorobenzene

Concen: 57.261 ug/l

RT: 11.067 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX048571.D

Acq: 12 Nov 2025 12:19

Instrument :

MSVOA_X

ClientSampleId :

PB170494TB

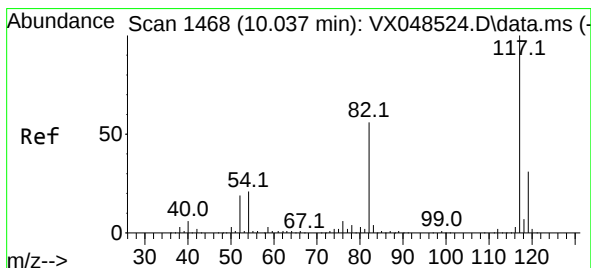
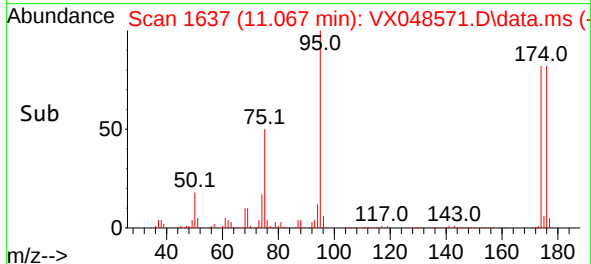
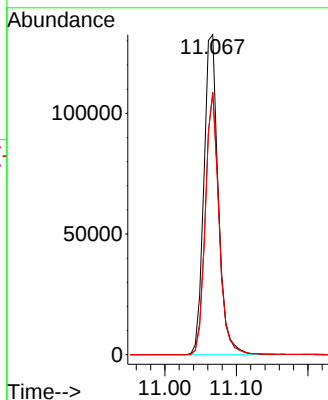
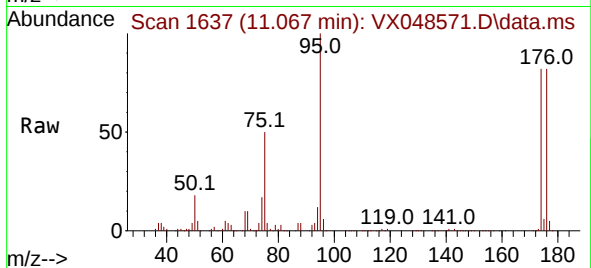
Tgt Ion: 95 Resp: 185495

Ion Ratio Lower Upper

95 100

174 79.0 0.0 161.8

176 77.7 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: VX048571.D

Acq: 12 Nov 2025 12:19

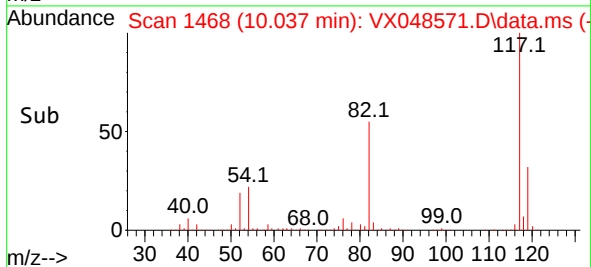
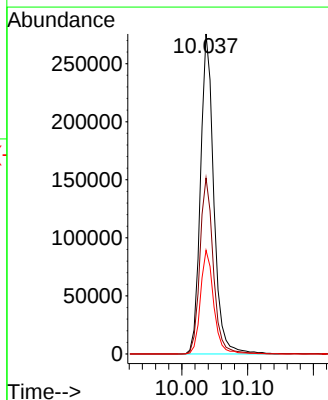
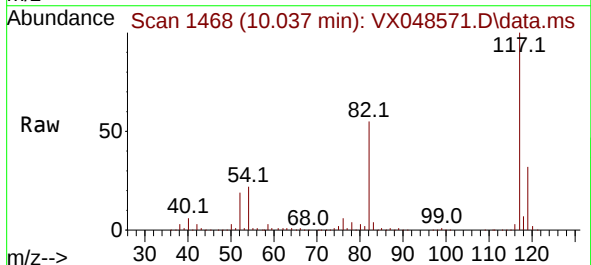
Tgt Ion: 117 Resp: 387973

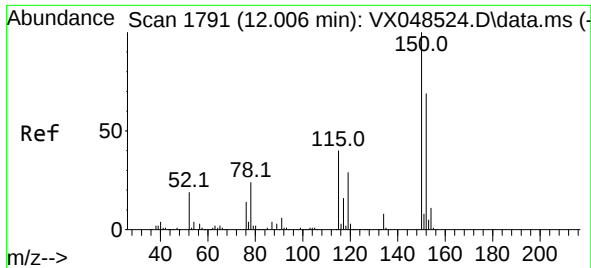
Ion Ratio Lower Upper

117 100

82 55.0 44.4 66.6

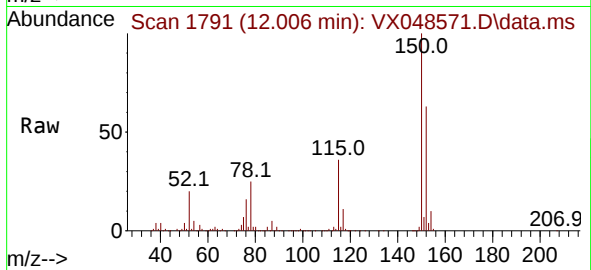
119 32.4 25.1 37.7



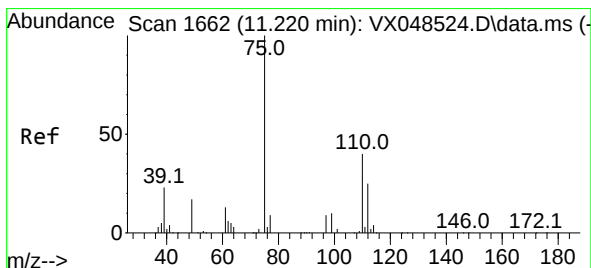
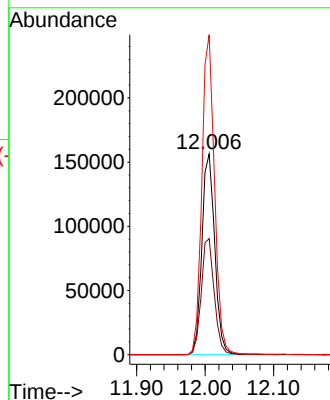
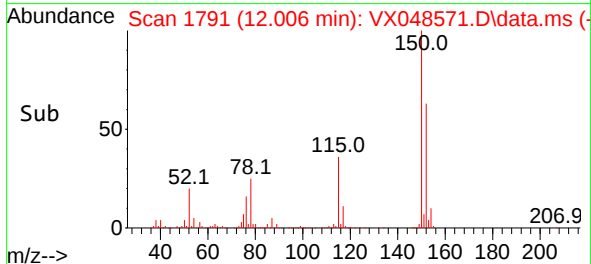


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Instrument :
MSVOA_X
ClientSampleId :
PB170494TB

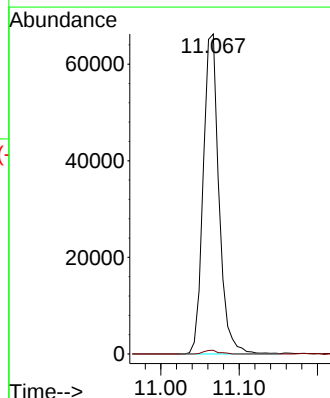
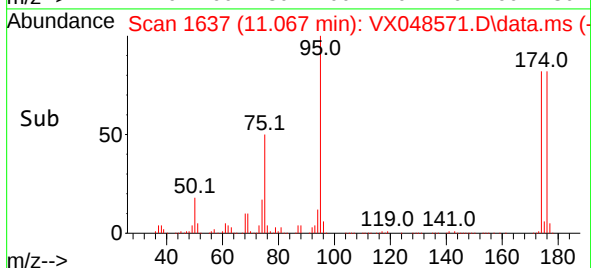
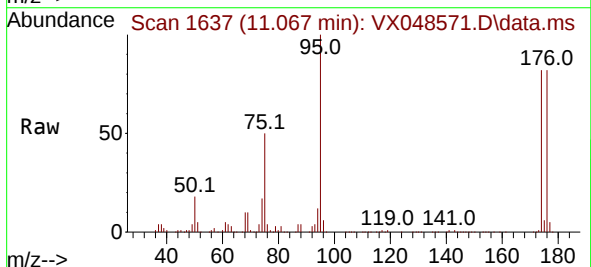


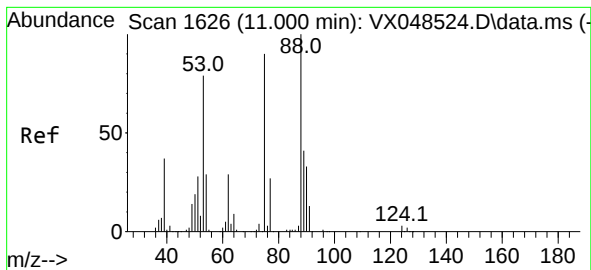
Tgt Ion:152 Resp: 205577
Ion Ratio Lower Upper
152 100
115 58.2 39.2 117.6
150 156.2 0.0 347.0



#76
1,2,3-Trichloropropane
Concen: 18.693 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. -0.153 min
Lab File: VX048571.D
Acq: 12 Nov 2025 12:19

Tgt Ion: 75 Resp: 92579
Ion Ratio Lower Upper
75 100
77 1.1 24.3 72.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.467 ug/l
 RT: 11.067 min Scan# 11
 Delta R.T. 0.067 min
 Lab File: VX048571.D
 Acq: 12 Nov 2025 12:19

Instrument :
 MSVOA_X
 ClientSampleId :
 PB170494TB

Tgt Ion: 75 Resp: 92579
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.4 108.6#
 89 0.0 43.6 65.4#

