

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080825\
 Data File : VX047268.D
 Acq On : 08 Aug 2025 14:06
 Operator : JC/MD
 Sample : PB169150TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

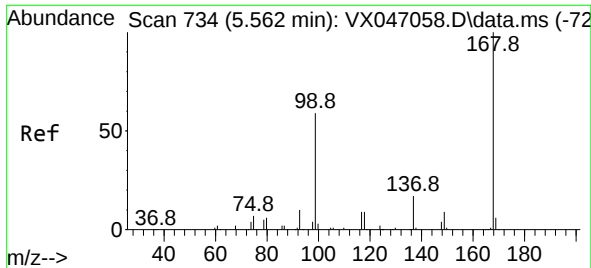
Instrument :
 MSVOA_X
 ClientSampleId :
 PB169150TB

Quant Time: Aug 11 02:00:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	331392	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	621257	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	589241	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	299798	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	220319	53.371	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 106.740%		
35) Dibromofluoromethane	5.397	113	187725	48.940	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.880%		
50) Toluene-d8	8.647	98	671835	54.083	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 108.160%		
62) 4-Bromofluorobenzene	11.079	95	284946	53.228	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 106.460%		
Target Compounds						
						Qvalue
5) Bromomethane	1.648	94	758	0.298	ug/l	85
10) Methyl Iodide	2.477	142	3198	0.746	ug/l	98
11) Tert butyl alcohol	2.971	59	585	Below Cal	#	72
13) Acrolein	2.252	56	208	0.234	ug/l	91
16) Acetone	2.386	43	55783	33.732	ug/l	98
17) Carbon Disulfide	2.532	76	5432	0.451	ug/l	95
18) Methyl Acetate	2.715	43	27199	6.189	ug/l	99
20) Methylene Chloride	2.806	84	14166	3.114	ug/l	92
25) 2-Butanone	4.586	43	8845	3.673	ug/l	95
31) Cyclohexane	5.562	56	7297	0.946	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	27694	4.236	ug/l #	50
37) Ethyl Acetate	4.733	43	16950	2.813	ug/l	96
38) Carbon Tetrachloride	5.562	117	36055	5.166	ug/l #	15
43) Isopropyl Acetate	6.361	43	12169	1.296	ug/l #	78
48) Methyl methacrylate	7.799	41	104512	20.425	ug/l #	45
49) 1,4-Dioxane	7.799	88	169	2.904	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	143638	25.728	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	67662	9.255	ug/l #	57
57) 1,3-Dichloropropane	9.482	76	4330	0.571	ug/l #	43
59) 2-Hexanone	9.378	43	18315	4.965	ug/l #	25
74) N-amyl acetate	10.640	43	23520	2.465	ug/l #	53
76) 1,2,3-Trichloropropane	11.079	75	146116	26.331	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	146116	67.840	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.591	180	1464	0.215	ug/l	94
94) Hexachlorobutadiene	13.719	225	2297	0.992	ug/l	88
96) 1,2,3-Trichlorobenzene	13.963	180	1350	0.206	ug/l	90

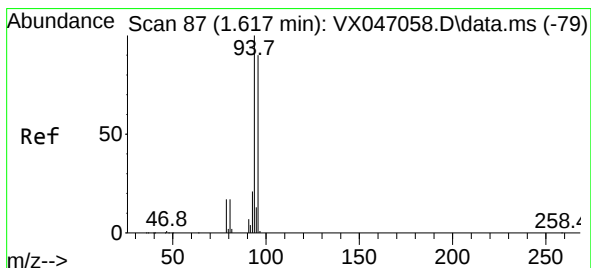
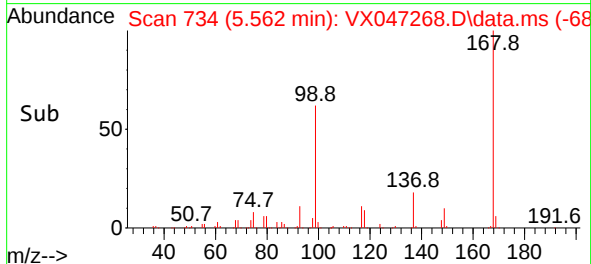
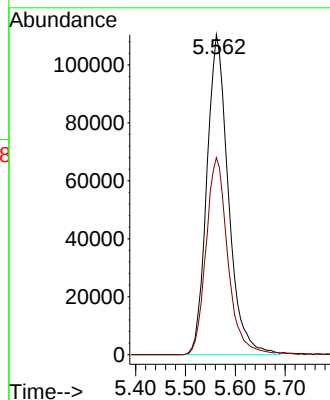
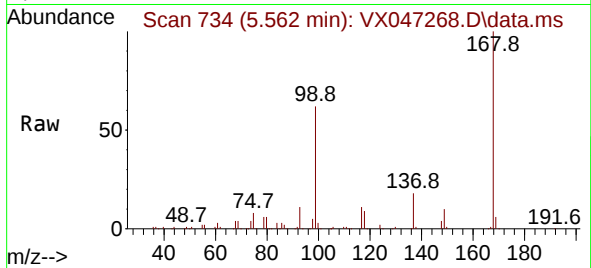
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

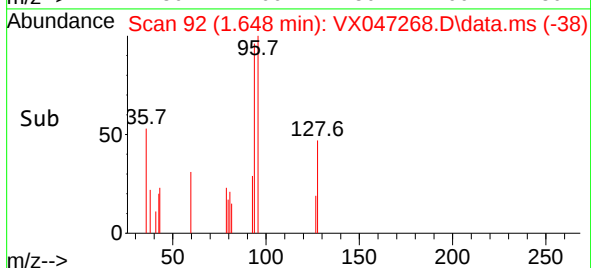
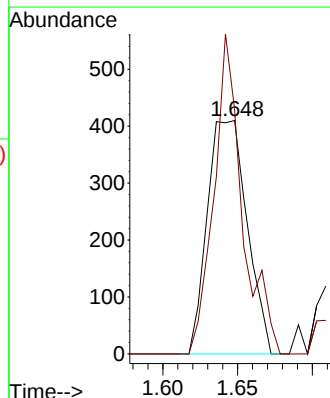
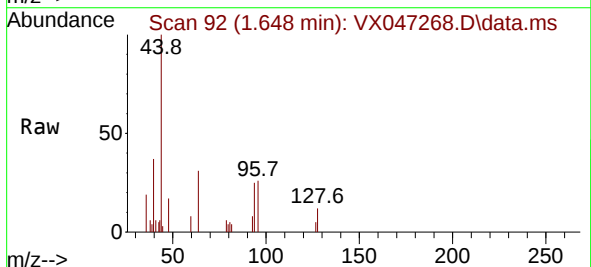
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

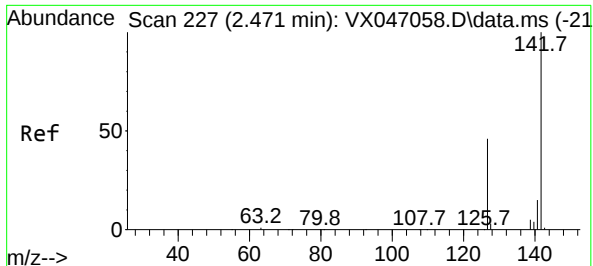
Tgt Ion:168 Resp: 331392
Ion Ratio Lower Upper
168 100
99 61.6 48.0 72.0



#5
Bromomethane
Concen: 0.298 ug/l
RT: 1.648 min Scan# 92
Delta R.T. 0.031 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 94 Resp: 758
Ion Ratio Lower Upper
94 100
96 104.6 72.3 108.5

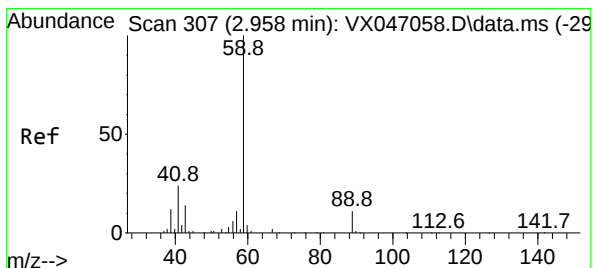
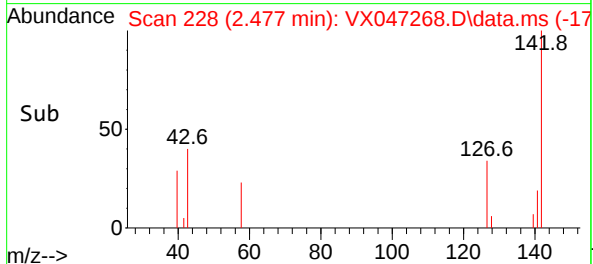
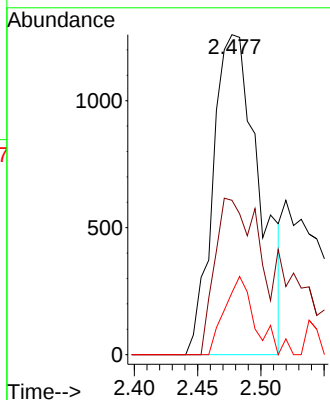
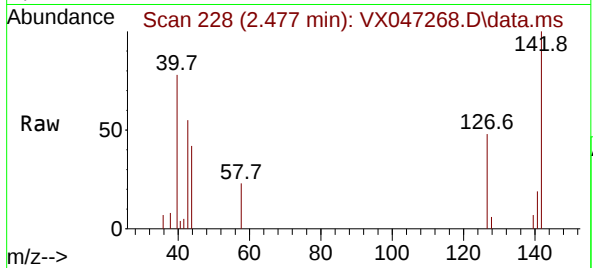




#10
Methyl Iodide
Concen: 0.746 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

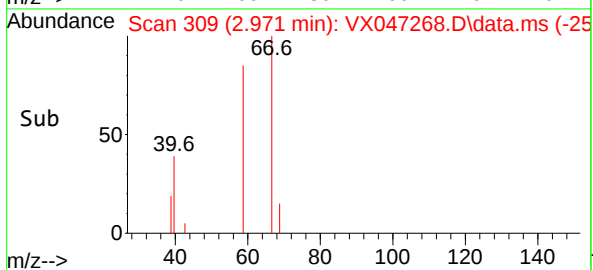
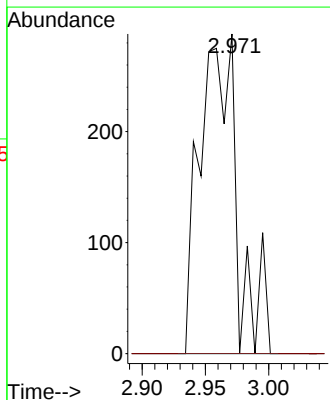
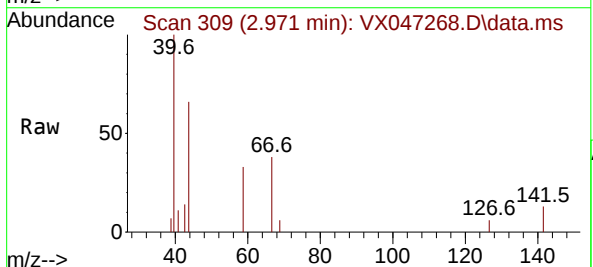
Instrument :
MSVOA_X
ClientSampleId :
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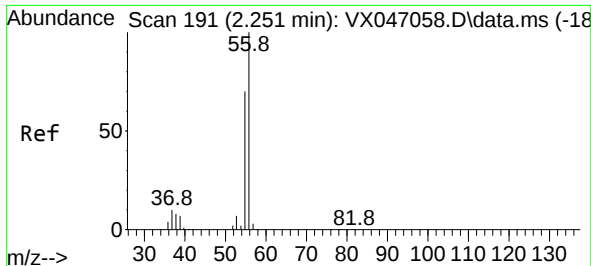
Tgt Ion:142 Resp: 3198
Ion Ratio Lower Upper
142 100
127 45.9 36.6 54.8
141 16.2 10.9 16.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.971 min Scan# 309
Delta R.T. 0.013 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 59 Resp: 585
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

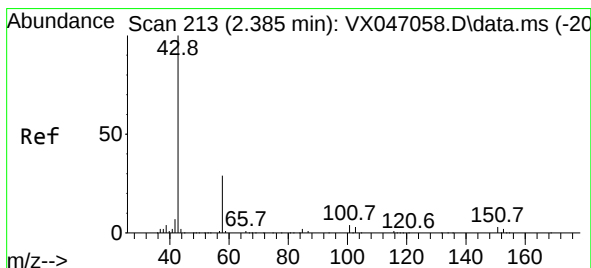
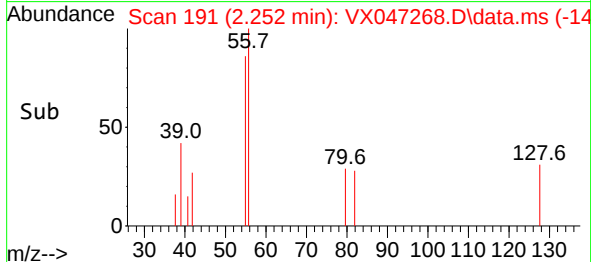
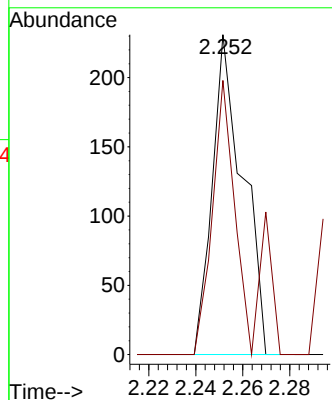
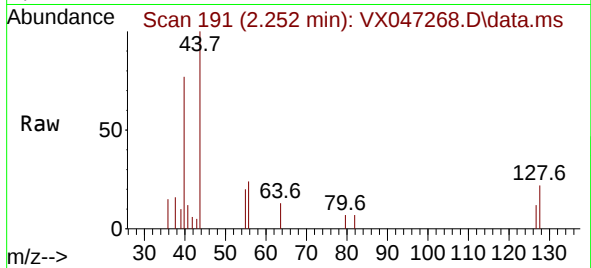




#13
Acrolein
Concen: 0.234 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

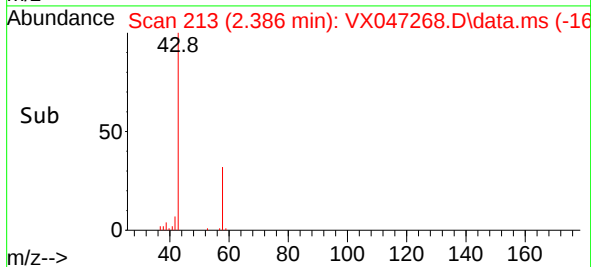
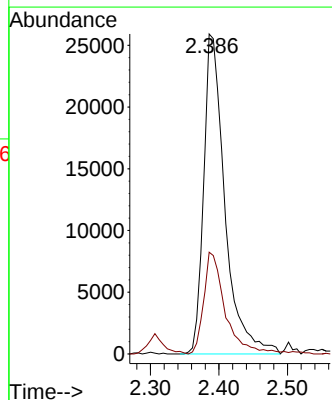
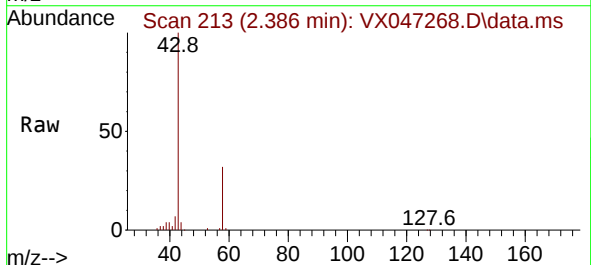
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

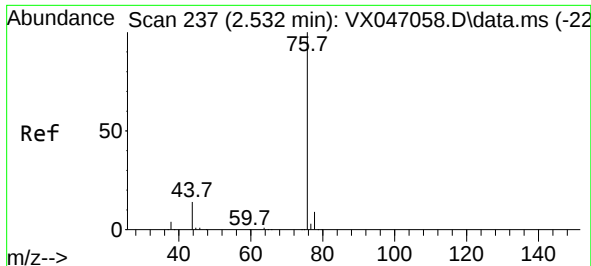
Tgt Ion: 56 Resp: 208
Ion Ratio Lower Upper
56 100
55 62.0 55.7 83.5



#16
Acetone
Concen: 33.732 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 43 Resp: 55783
Ion Ratio Lower Upper
43 100
58 31.2 24.0 36.0





#17

Carbon Disulfide

Concen: 0.451 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047268.D

Acq: 08 Aug 2025 14:06

Instrument :

MSVOA_X

ClientSampleId :

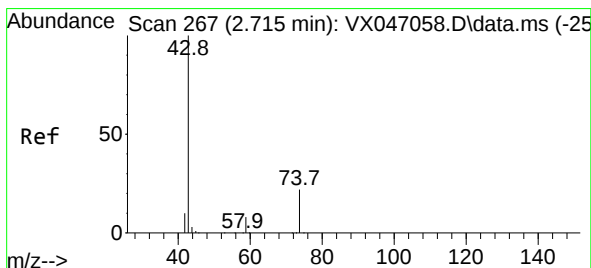
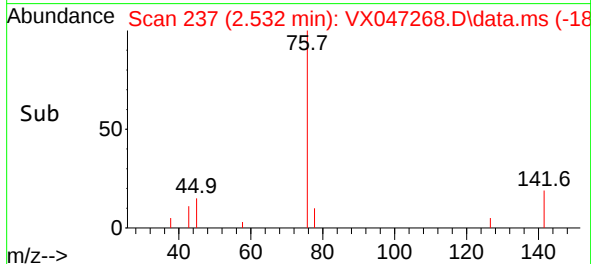
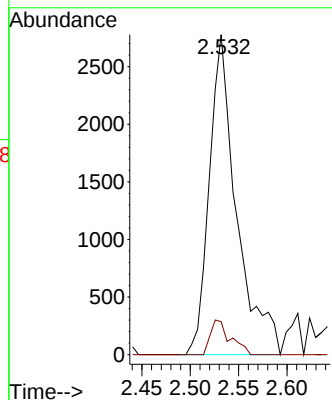
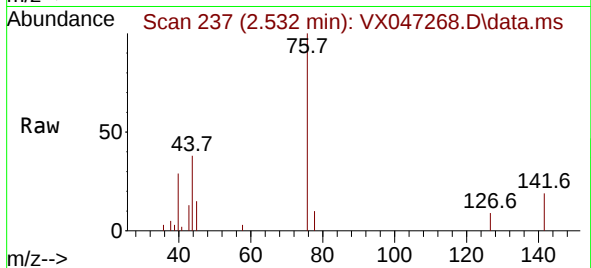
PB169150TB

Tgt Ion: 76 Resp: 5432

Ion Ratio Lower Upper

76 100

78 10.3 7.0 10.4



#18

Methyl Acetate

Concen: 6.189 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047268.D

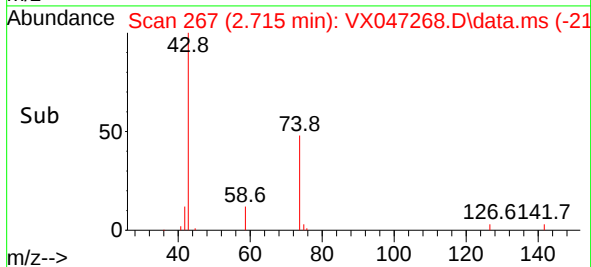
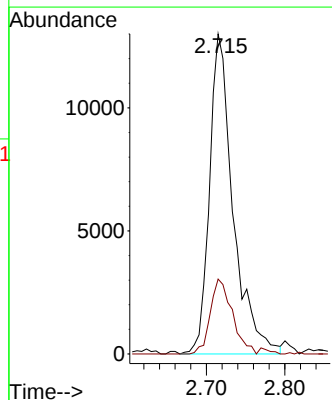
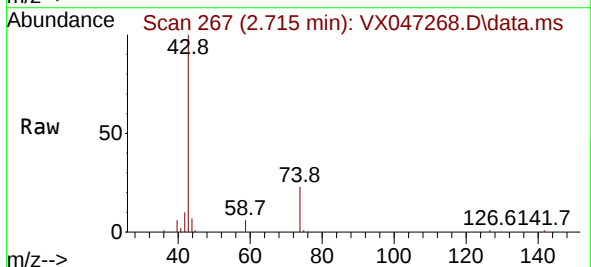
Acq: 08 Aug 2025 14:06

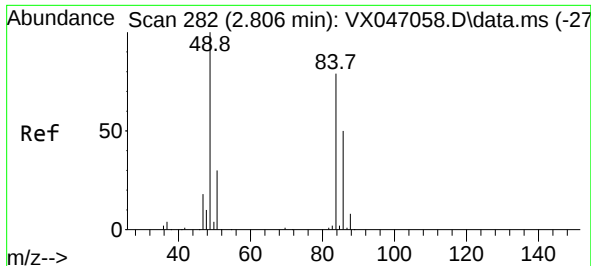
Tgt Ion: 43 Resp: 27199

Ion Ratio Lower Upper

43 100

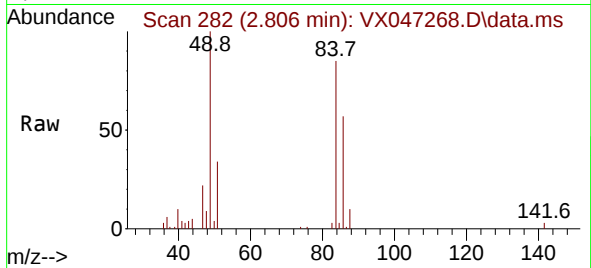
74 21.8 17.7 26.5



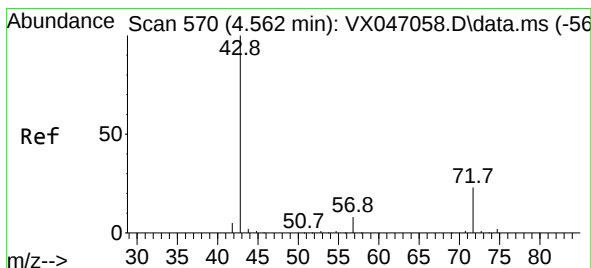
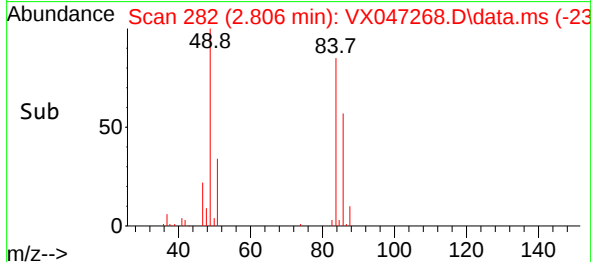
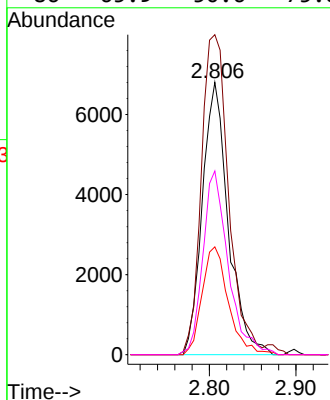


#20
Methylene Chloride
Concen: 3.114 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

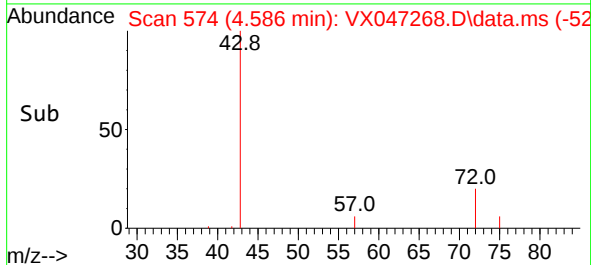
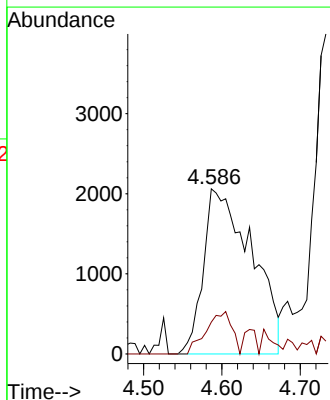
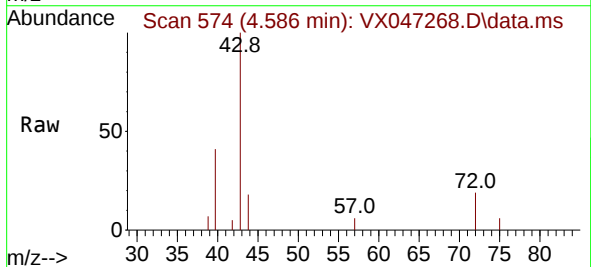


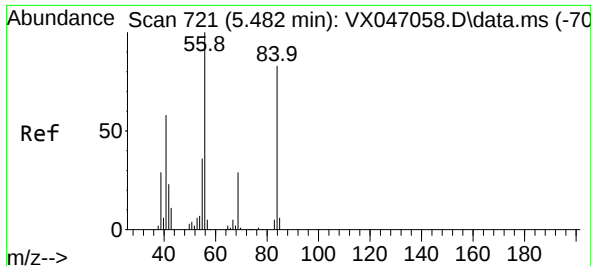
Tgt Ion:	84	Resp:	14166
Ion	Ratio	Lower	Upper
84	100		
49	113.4	101.6	152.4
51	38.2	30.3	45.5
86	65.9	50.6	75.8



#25
2-Butanone
Concen: 3.673 ug/l
RT: 4.586 min Scan# 574
Delta R.T. 0.025 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion:	43	Resp:	8845
Ion	Ratio	Lower	Upper
43	100		
72	25.7	18.8	28.2

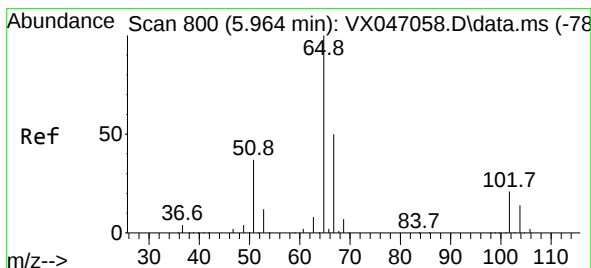
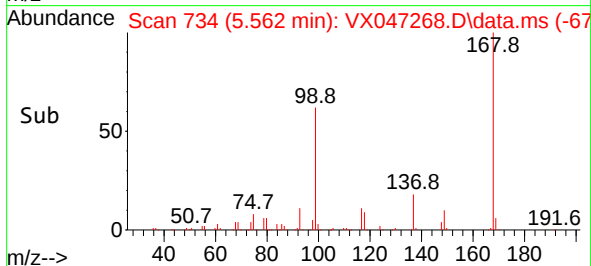
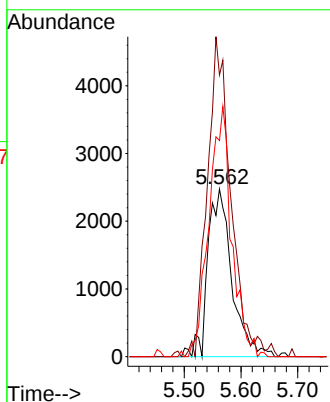
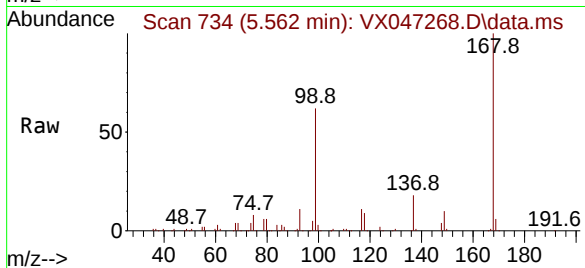




#31
Cyclohexane
Concen: 0.946 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.080 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

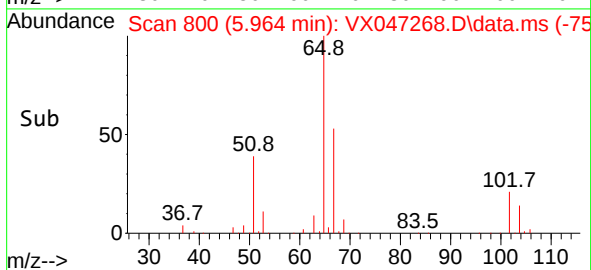
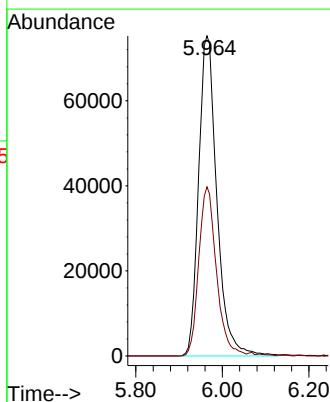
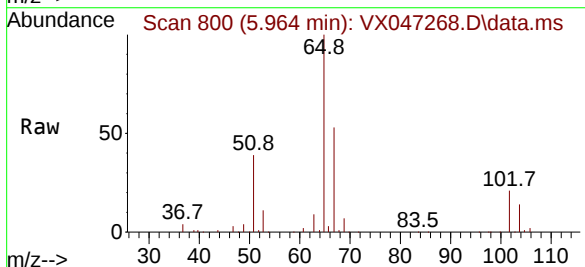
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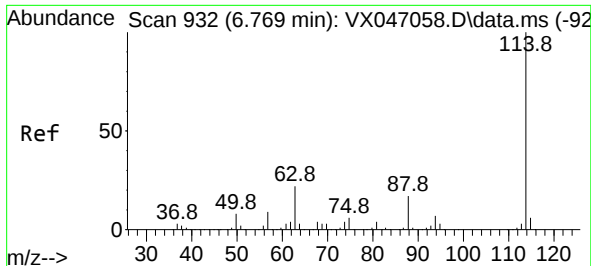
Tgt Ion: 56 Resp: 7297
Ion Ratio Lower Upper
56 100
69 170.4 23.3 34.9#
84 128.9 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 53.371 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 65 Resp: 220319
Ion Ratio Lower Upper
65 100
67 51.1 0.0 104.8

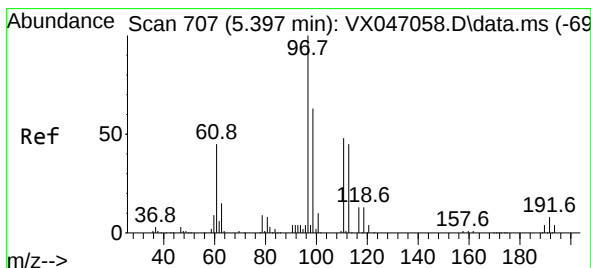
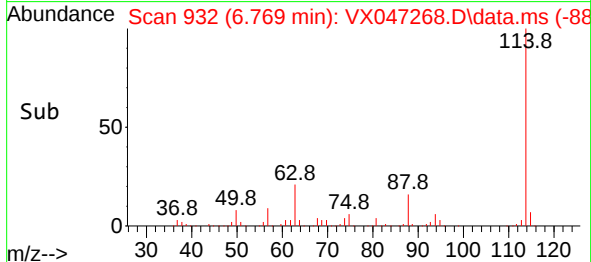
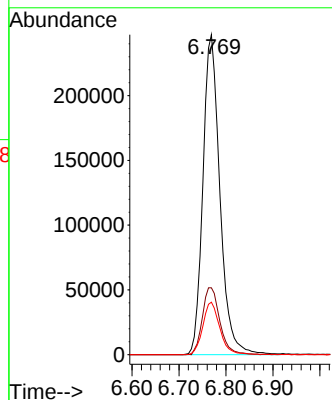
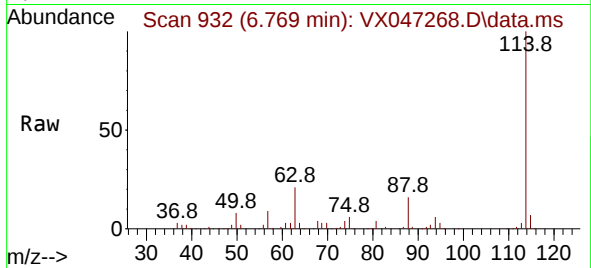




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

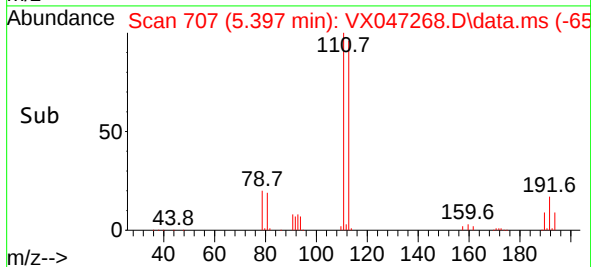
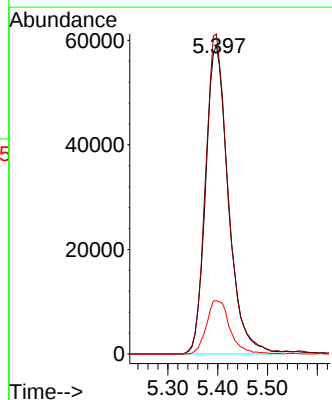
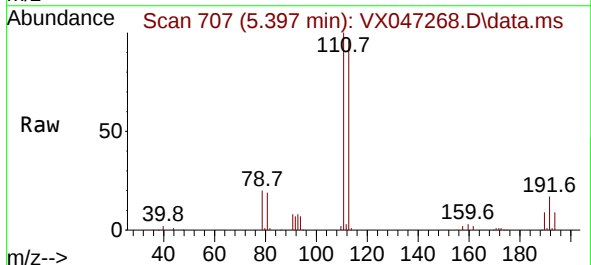
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

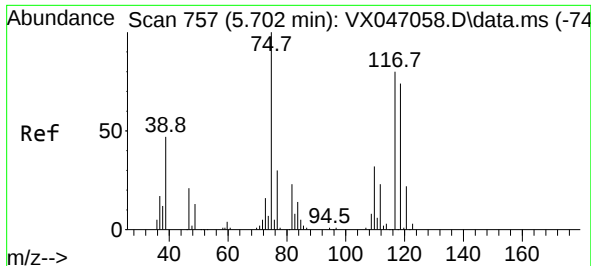
Tgt Ion:114 Resp: 621257
Ion Ratio Lower Upper
114 100
63 20.9 0.0 43.2
88 16.4 0.0 33.8



#35
Dibromofluoromethane
Concen: 48.940 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion:113 Resp: 187725
Ion Ratio Lower Upper
113 100
111 102.7 82.6 124.0
192 17.8 14.9 22.3

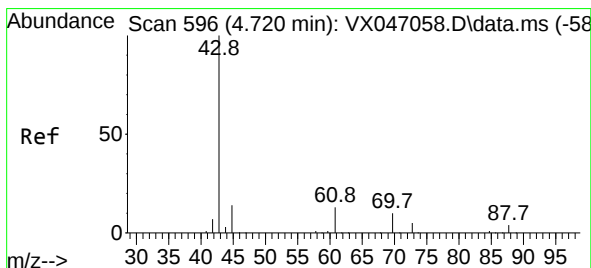
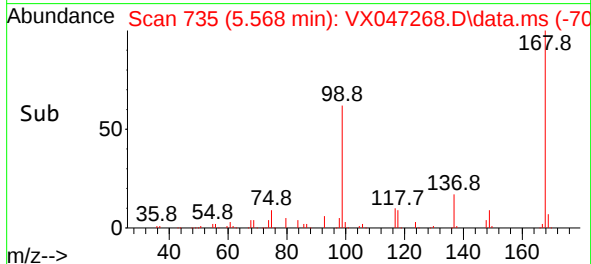
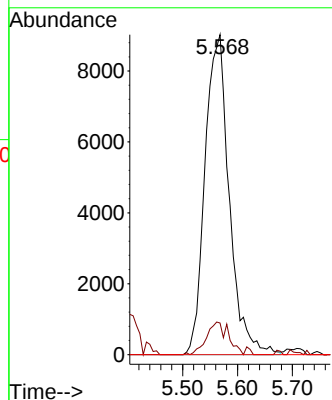
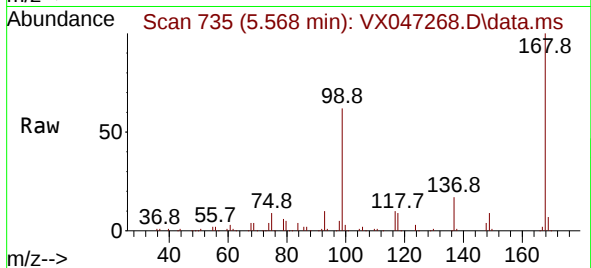




#36
 1,1-Dichloropropene
 Concen: 4.236 ug/l
 RT: 5.568 min Scan# 71
 Delta R.T. -0.134 min
 Lab File: VX047268.D
 Acq: 08 Aug 2025 14:06

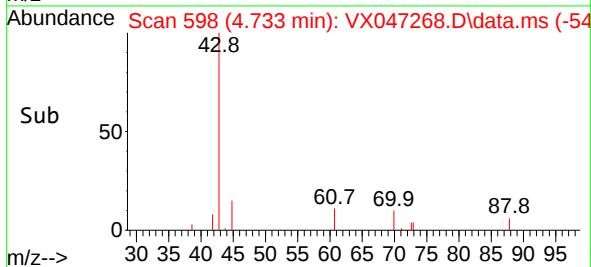
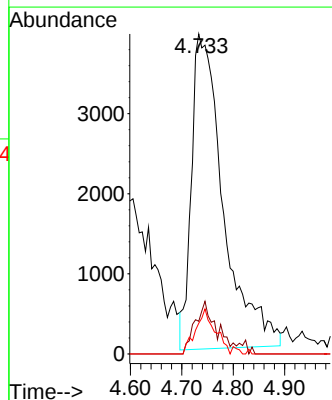
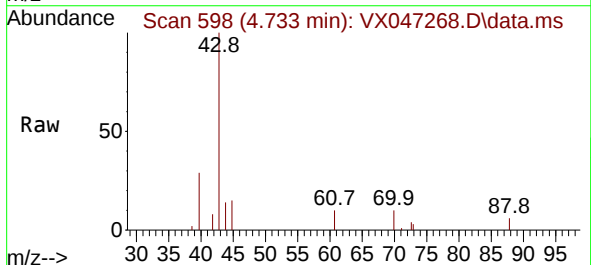
Instrument :
 MSVOA_X
 ClientSampleId :
 PB169150TB

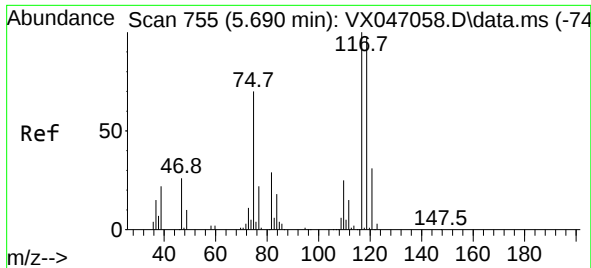
Tgt Ion: 75 Resp: 27694
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.2 51.5#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 2.813 ug/l
 RT: 4.733 min Scan# 598
 Delta R.T. 0.012 min
 Lab File: VX047268.D
 Acq: 08 Aug 2025 14:06

Tgt Ion: 43 Resp: 16950
 Ion Ratio Lower Upper
 43 100
 61 11.4 10.2 15.2
 70 8.7 8.1 12.1

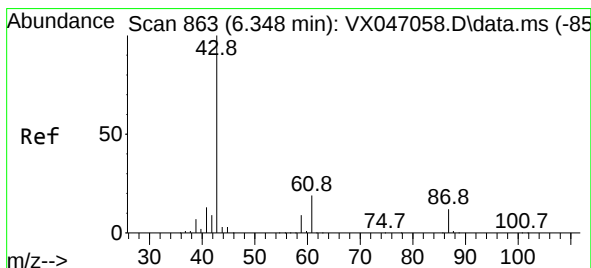
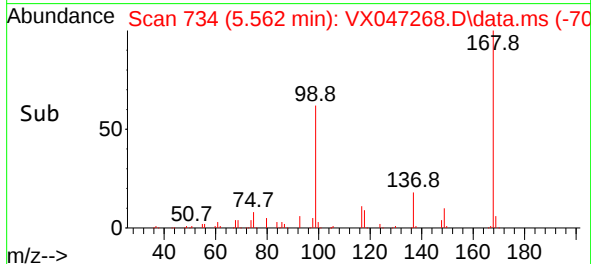
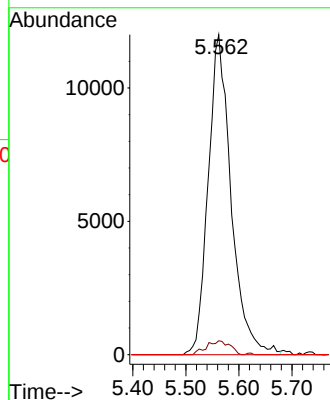
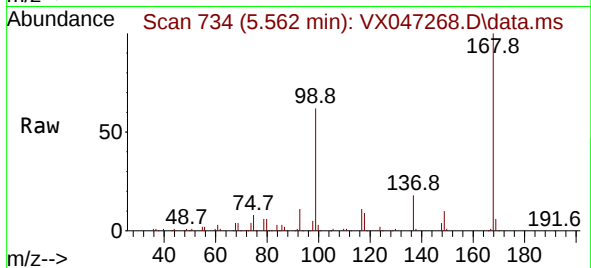




#38
Carbon Tetrachloride
Concen: 5.166 ug/l
RT: 5.562 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

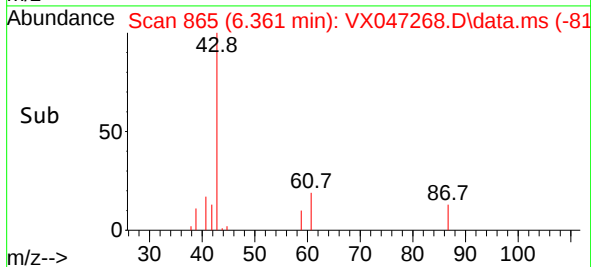
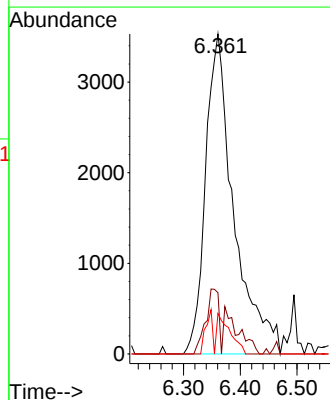
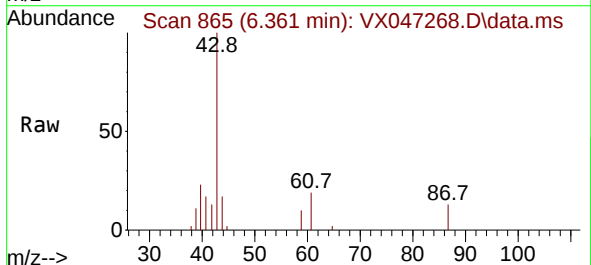
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

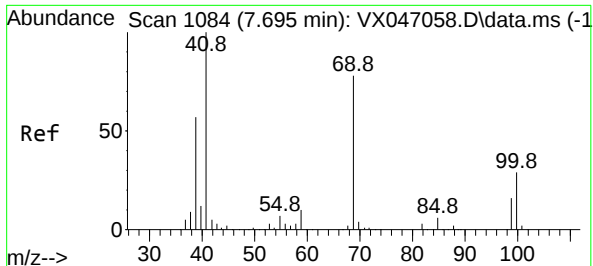
Tgt Ion:117 Resp: 36055
Ion Ratio Lower Upper
117 100
119 4.4 76.6 115.0#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 1.296 ug/l
RT: 6.361 min Scan# 865
Delta R.T. 0.013 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 43 Resp: 12169
Ion Ratio Lower Upper
43 100
61 7.5 15.1 22.7#
87 6.0 9.7 14.5#

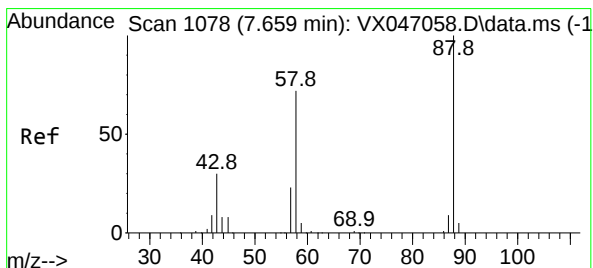
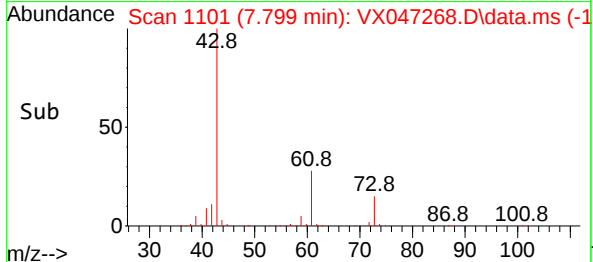
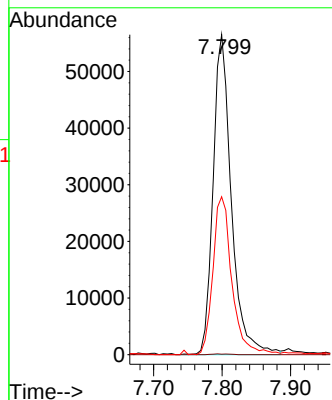
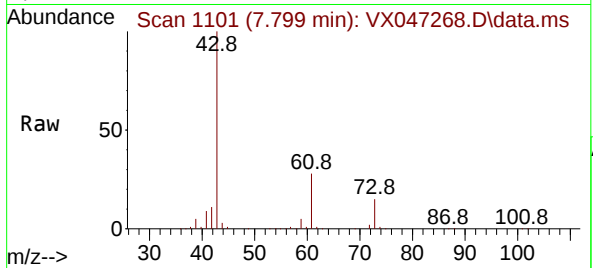




#48
Methyl methacrylate
Concen: 20.425 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

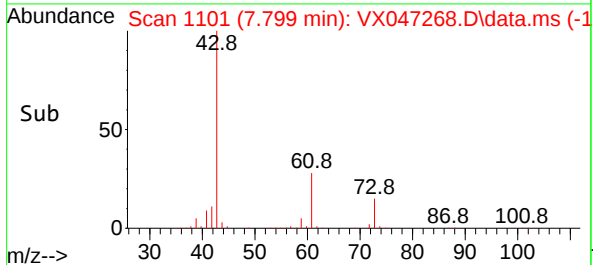
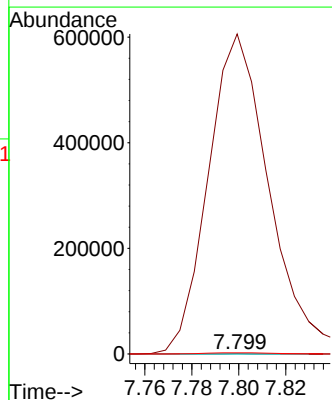
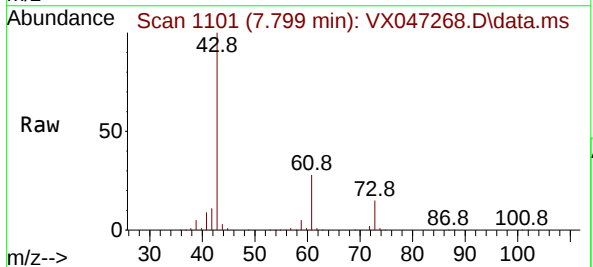
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

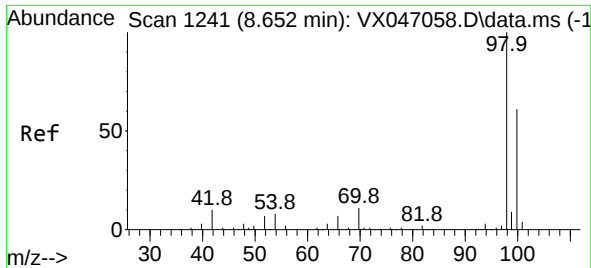
Tgt Ion: 41 Resp: 104512
Ion Ratio Lower Upper
41 100
69 0.2 62.3 93.5#
39 51.3 44.8 67.2



#49
1,4-Dioxane
Concen: 2.904 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.141 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 88 Resp: 169
Ion Ratio Lower Upper
88 100
43 668445.0 33.6 50.4#
58 2781.1 58.8 88.2#

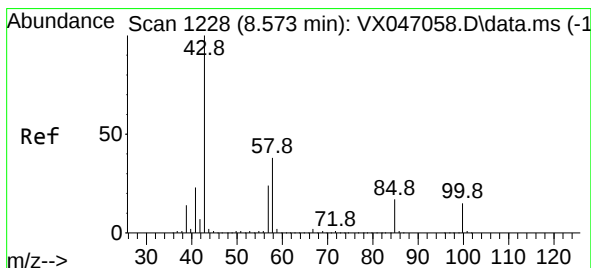
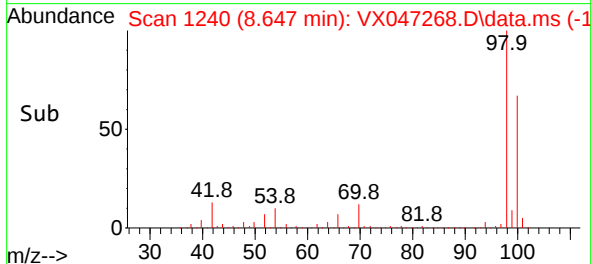
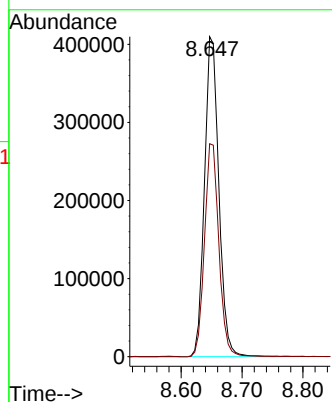
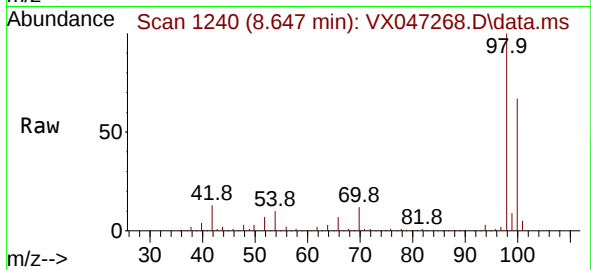




#50
Toluene-d8
Concen: 54.083 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

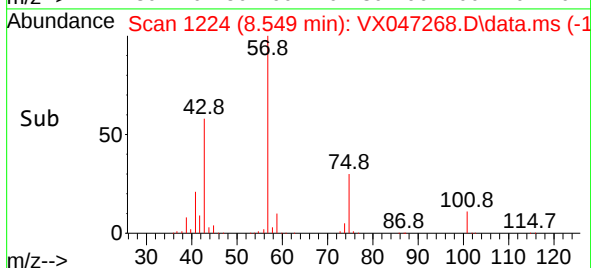
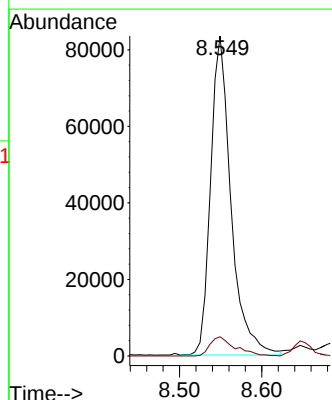
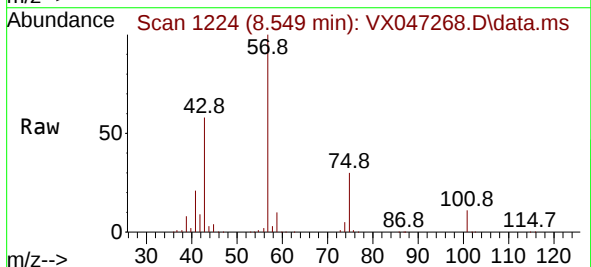
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

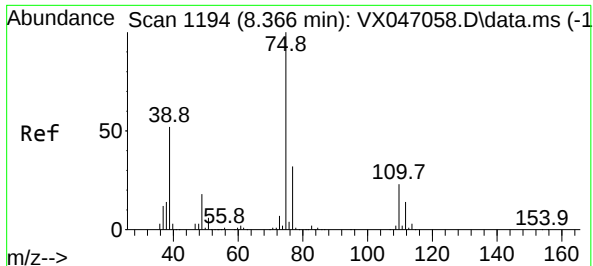
Tgt Ion: 98 Resp: 671835
Ion Ratio Lower Upper
98 100
100 66.7 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 25.728 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 43 Resp: 143638
Ion Ratio Lower Upper
43 100
58 7.4 30.6 45.8#

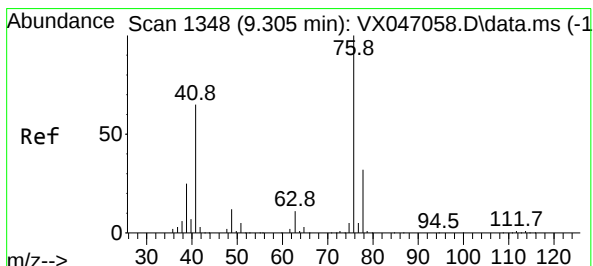
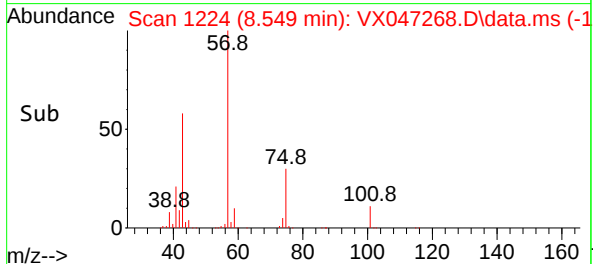
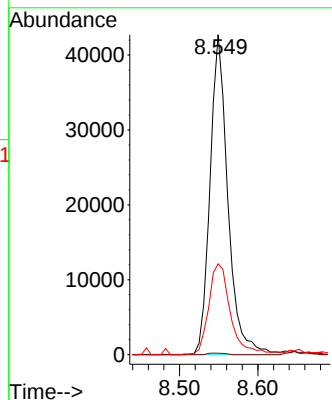
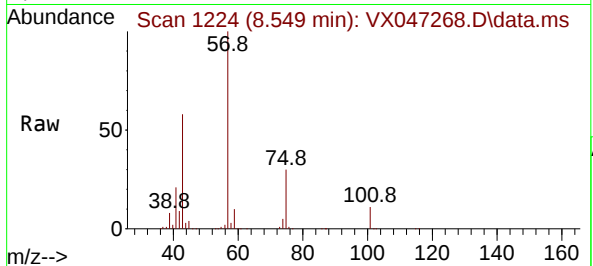




#54
cis-1,3-Dichloropropene
Concen: 9.255 ug/l
RT: 8.549 min Scan# 1194
Delta R.T. 0.183 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

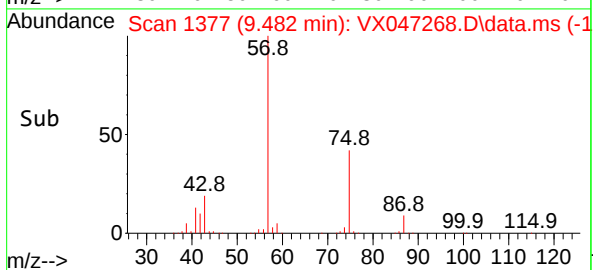
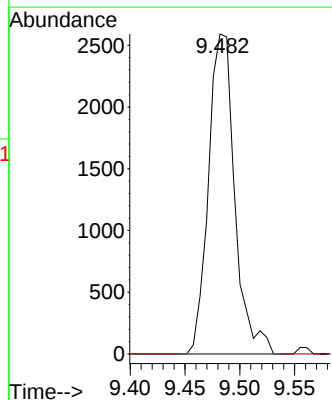
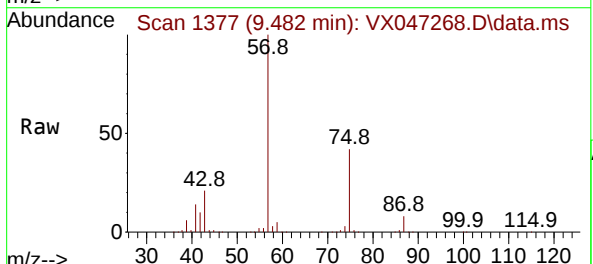
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

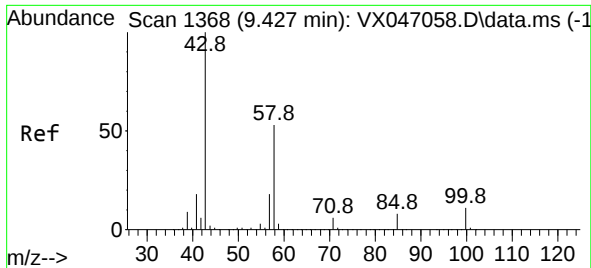
Tgt Ion: 75 Resp: 67662
Ion Ratio Lower Upper
75 100
77 0.4 25.4 38.0#
39 27.6 41.8 62.6#



#57
1,3-Dichloropropane
Concen: 0.571 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 76 Resp: 4330
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#





#59

2-Hexanone

Concen: 4.965 ug/l

RT: 9.378 min Scan# 11

Delta R.T. -0.048 min

Lab File: VX047268.D

Acq: 08 Aug 2025 14:06

Instrument :

MSVOA_X

ClientSampleId :

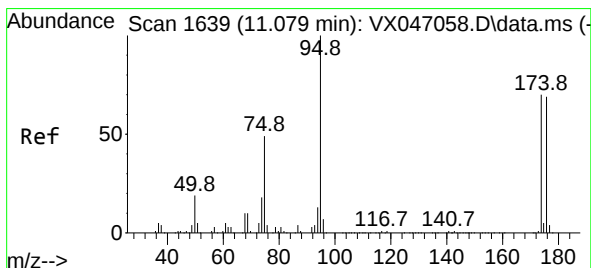
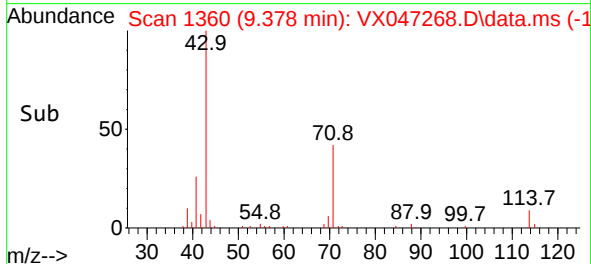
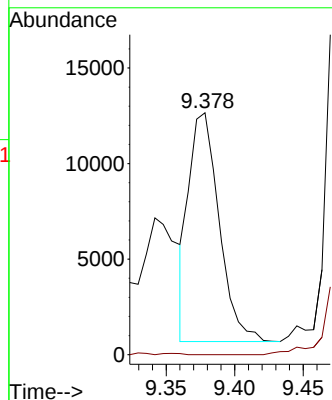
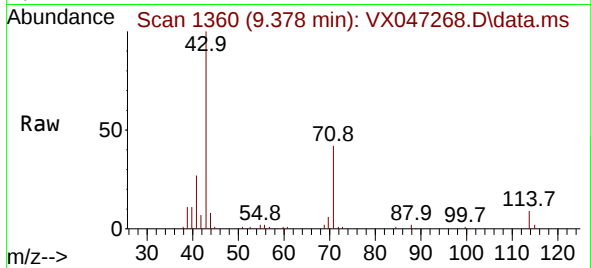
PB169150TB

Tgt Ion: 43 Resp: 18315

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.5#



#62

4-Bromofluorobenzene

Concen: 53.228 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047268.D

Acq: 08 Aug 2025 14:06

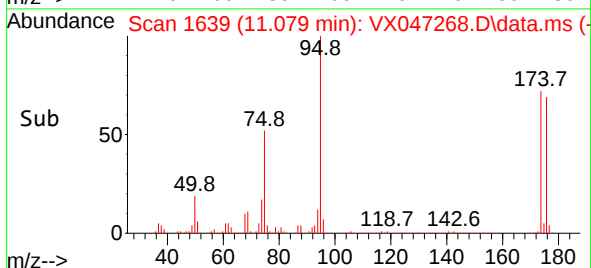
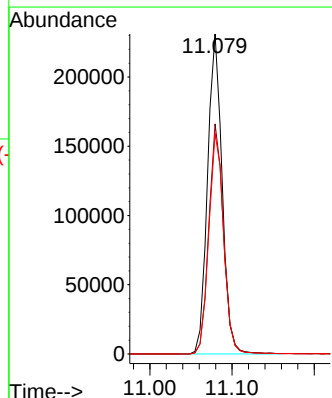
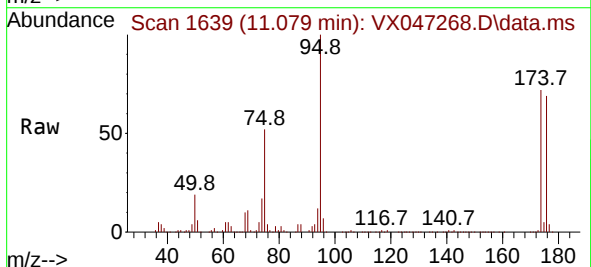
Tgt Ion: 95 Resp: 284946

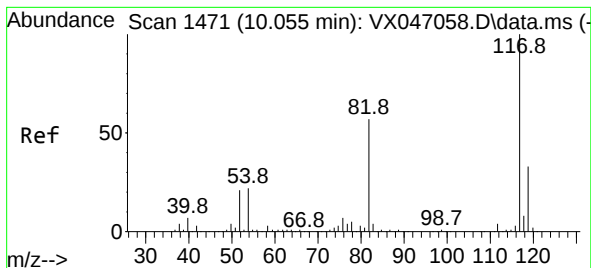
Ion Ratio Lower Upper

95 100

174 72.3 0.0 144.6

176 70.5 0.0 139.6

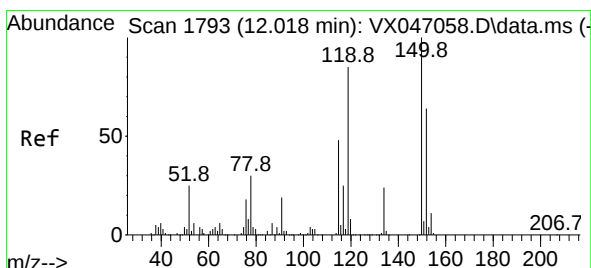
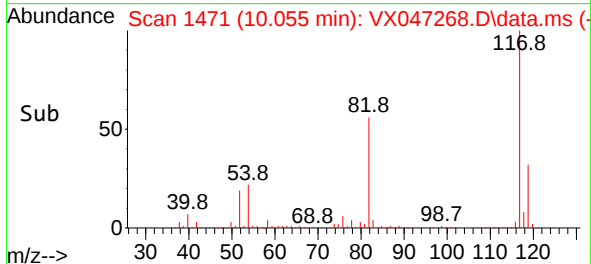
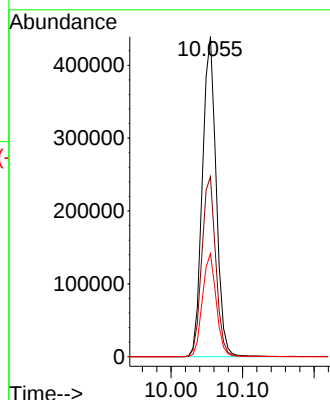
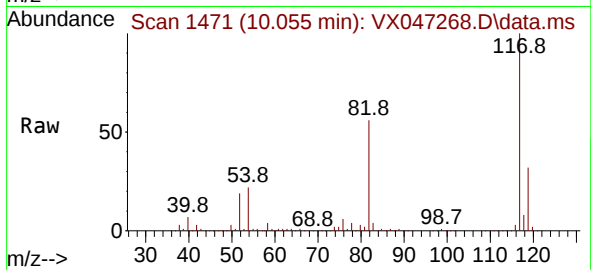




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

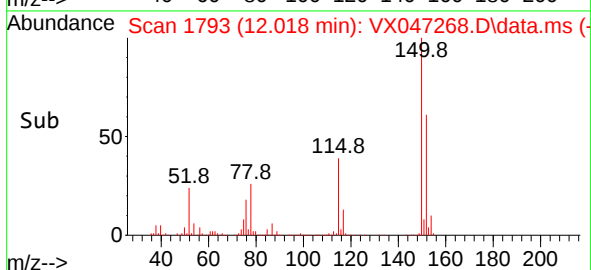
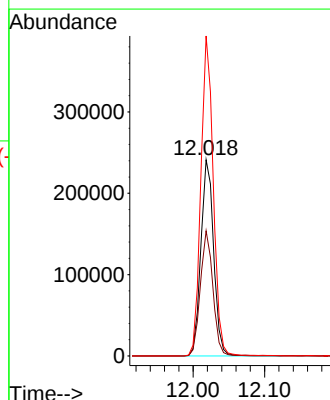
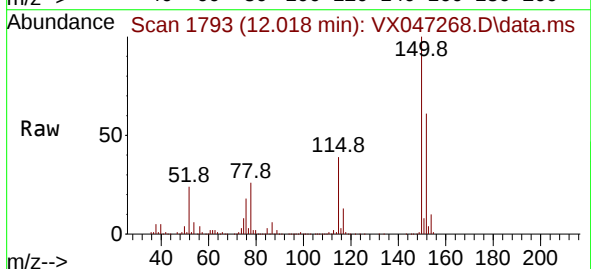
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

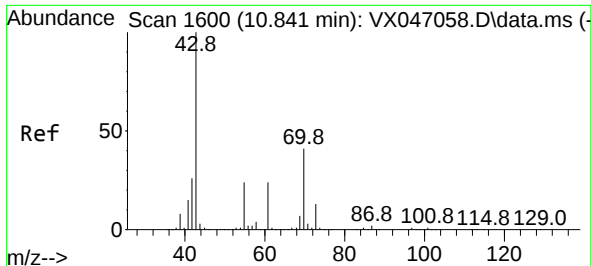
Tgt Ion:117 Resp: 589241
Ion Ratio Lower Upper
117 100
82 56.3 45.4 68.2
119 32.2 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion:152 Resp: 299798
Ion Ratio Lower Upper
152 100
115 62.7 45.6 136.7
150 157.8 0.0 354.6

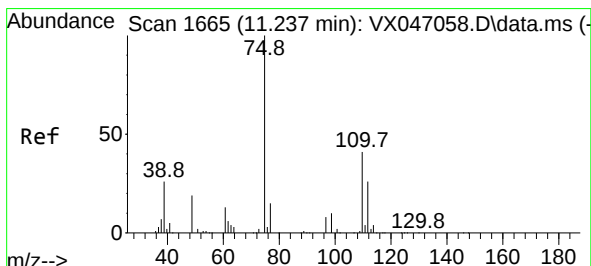
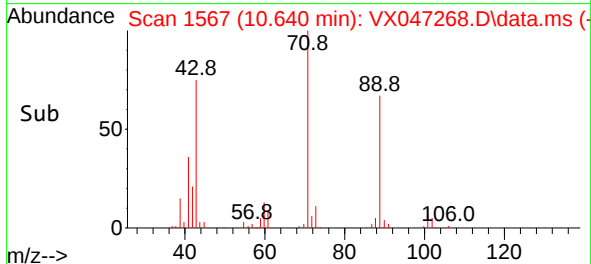
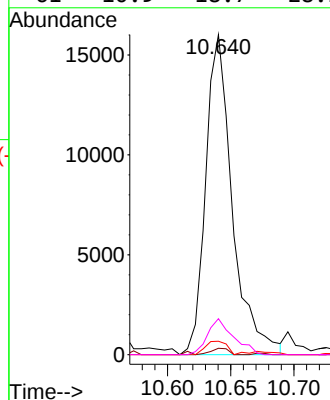
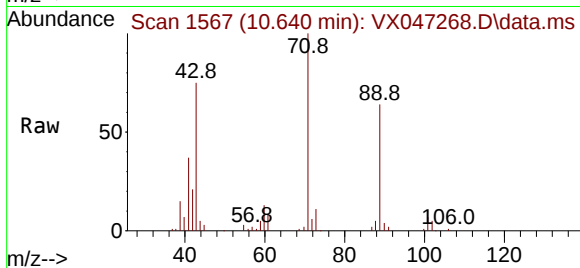




#74
N-amy1 acetate
Concen: 2.465 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.201 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

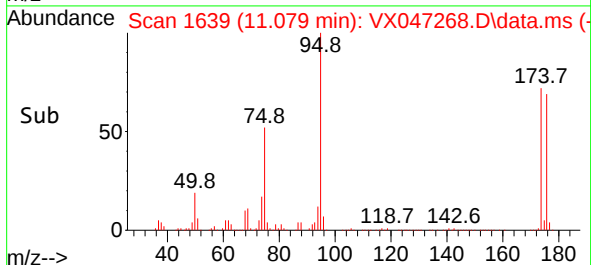
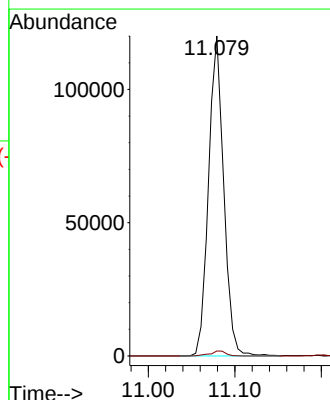
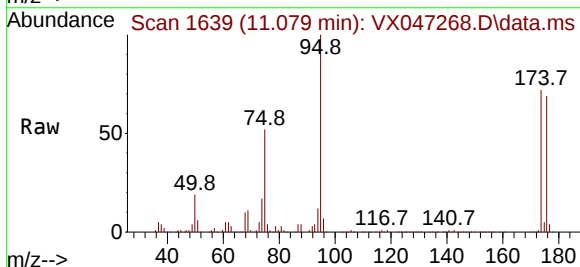
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

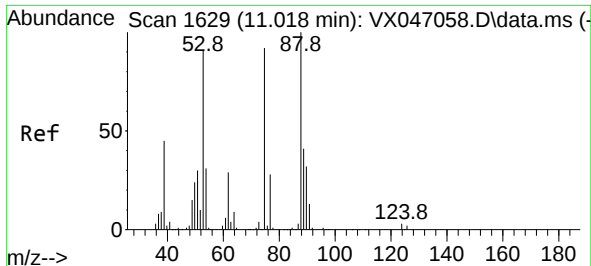
Tgt Ion: 43	Resp: 23520
Ion Ratio	Lower Upper
43 100	
70 1.3	32.3 48.5#
55 3.6	18.9 28.3#
61 10.9	18.7 28.1#



#76
1,2,3-Trichloropropane
Concen: 26.331 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion: 75	Resp: 146116
Ion Ratio	Lower Upper
75 100	
77 1.6	21.6 65.0#

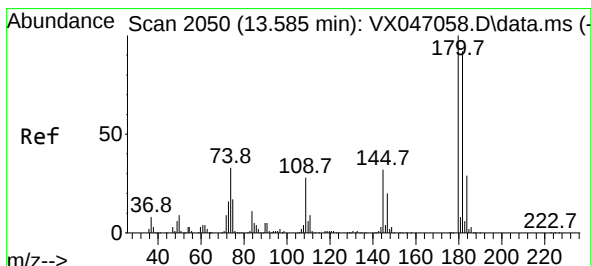
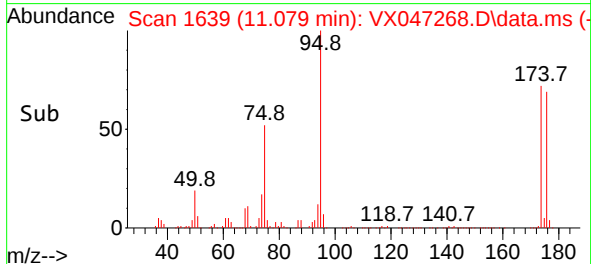
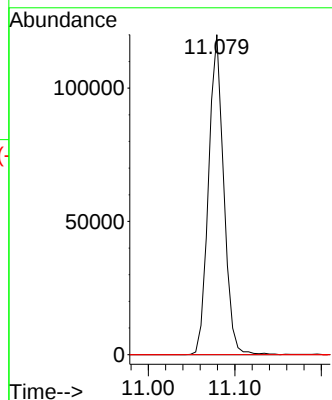
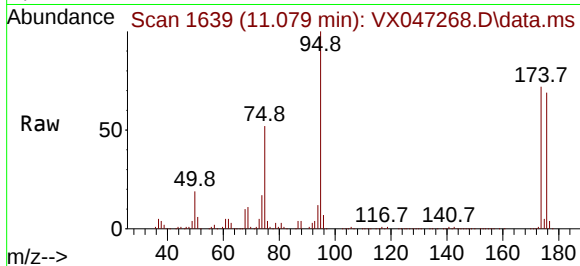




#81
trans-1,4-Dichloro-2-butene
Concen: 67.840 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

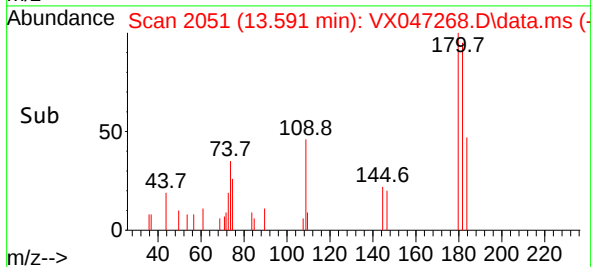
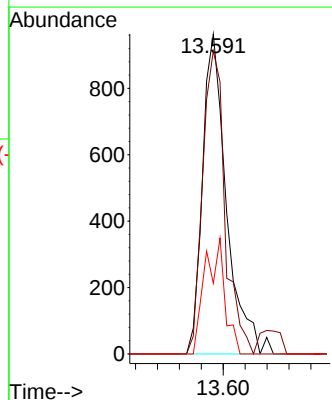
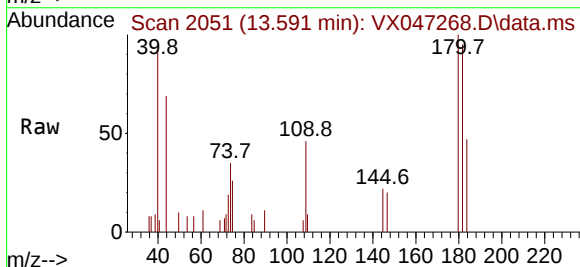
Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

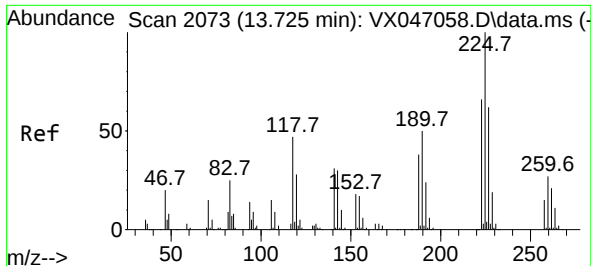
Tgt Ion: 75 Resp: 146116
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#



#93
1,2,4-Trichlorobenzene
Concen: 0.215 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion:180 Resp: 1464
Ion Ratio Lower Upper
180 100
182 87.8 47.3 141.8
145 29.8 16.4 49.1

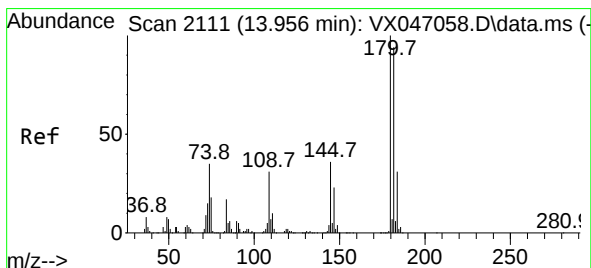
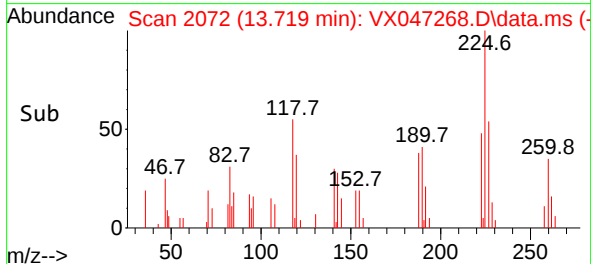
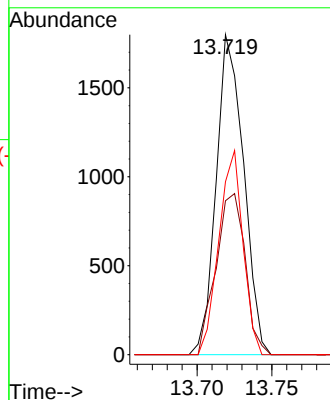
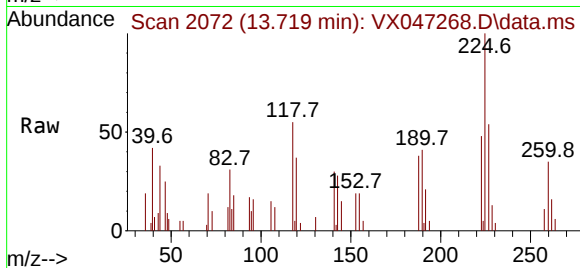




#94
Hexachlorobutadiene
Concen: 0.992 ug/l
RT: 13.719 min Scan# 2073
Delta R.T. -0.006 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
PB169150TB

Tgt Ion:225 Resp: 2297
Ion Ratio Lower Upper
225 100
223 53.5 31.6 95.0
227 56.0 32.9 98.6



#96
1,2,3-Trichlorobenzene
Concen: 0.206 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047268.D
Acq: 08 Aug 2025 14:06

Tgt Ion:180 Resp: 1350
Ion Ratio Lower Upper
180 100
182 105.8 46.9 140.6
145 37.4 17.3 52.0

