

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080625\
 Data File : VX047243.D
 Acq On : 06 Aug 2025 13:06
 Operator : JC/MD
 Sample : PB169123TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB169123TB

Quant Time: Aug 07 01:16:46 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)

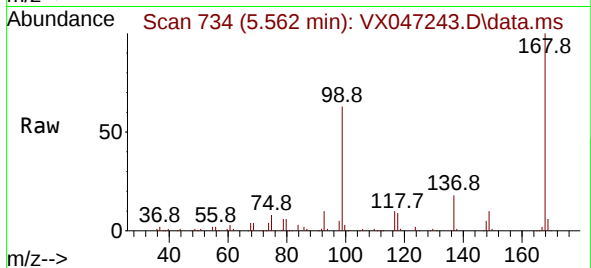
Internal Standards						
1) Pentafluorobenzene	5.562	168	375653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	701289	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	659704	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	329646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	255146	54.525	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 109.040%			
35) Dibromofluoromethane	5.397	113	213179	49.233	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.460%			
50) Toluene-d8	8.647	98	779034	55.556	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 111.120%			
62) 4-Bromofluorobenzene	11.079	95	324946	53.773	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.540%			
Target Compounds					Qvalue	
5) Bromomethane	1.636	94	990	0.344	ug/l	89
8) Diethyl Ether	2.148	74	759	0.272	ug/l	78
10) Methyl Iodide	2.477	142	4025	0.829	ug/l #	89
11) Tert butyl alcohol	2.959	59	590	Below Cal	#	72
16) Acetone	2.392	43	43399	23.151	ug/l	97
17) Carbon Disulfide	2.532	76	3921	0.287	ug/l #	76
18) Methyl Acetate	2.721	43	26888	5.397	ug/l	99
20) Methylene Chloride	2.806	84	14900	2.889	ug/l	92
25) 2-Butanone	4.605	43	8343	3.057	ug/l #	88
31) Cyclohexane	5.562	56	8305	0.949	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	31613	4.283	ug/l #	51
37) Ethyl Acetate	4.745	43	17618	2.590	ug/l #	90
38) Carbon Tetrachloride	5.562	117	39598	5.027	ug/l #	16
43) Isopropyl Acetate	6.355	43	12969	1.223	ug/l #	90
48) Methyl methacrylate	7.799	41	105561	18.276	ug/l #	45
49) 1,4-Dioxane	7.726	88	74	1.126	ug/l #	20
51) 4-Methyl-2-Pentanone	8.549	43	149444	23.713	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	67774	8.212	ug/l #	59
57) 1,3-Dichloropropane	9.482	76	4863	0.568	ug/l #	43
59) 2-Hexanone	9.378	43	20757	4.985	ug/l #	25
74) N-amyl acetate	10.640	43	24622	2.346	ug/l #	52
76) 1,2,3-Trichloropropane	11.079	75	171077	28.038	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	171077	72.237	ug/l #	8
89) n-Butylbenzene	12.335	91	5031	0.240	ug/l	97
93) 1,2,4-Trichlorobenzene	13.591	180	1869	0.250	ug/l	92
94) Hexachlorobutadiene	13.725	225	3058	1.201	ug/l	89
96) 1,2,3-Trichlorobenzene	13.957	180	1843	0.256	ug/l	99

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

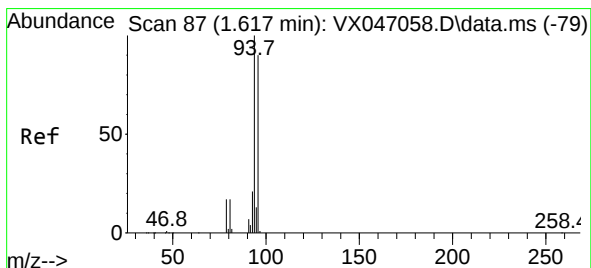
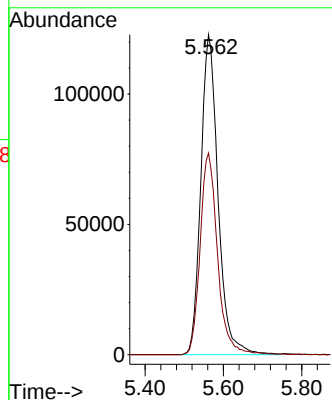
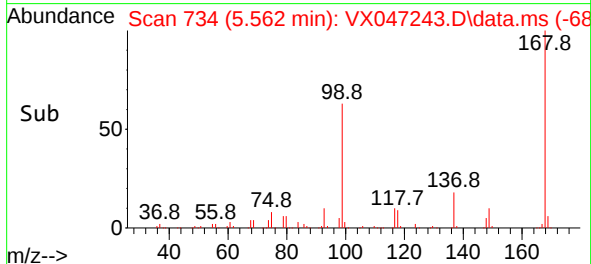


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

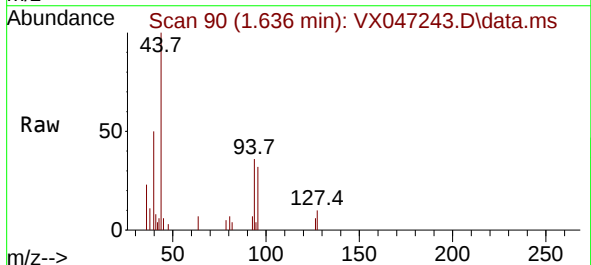
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB



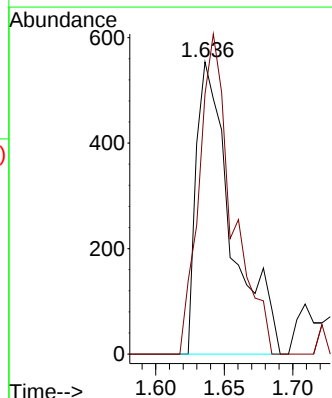
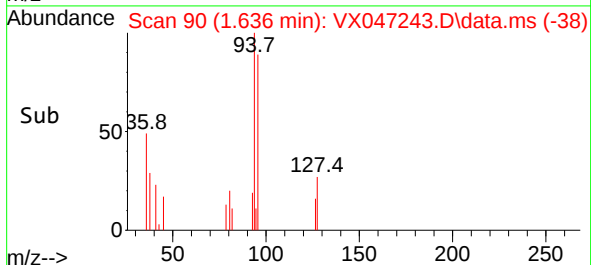
Tgt Ion:168 Resp: 375653
Ion Ratio Lower Upper
168 100
99 63.0 48.0 72.0

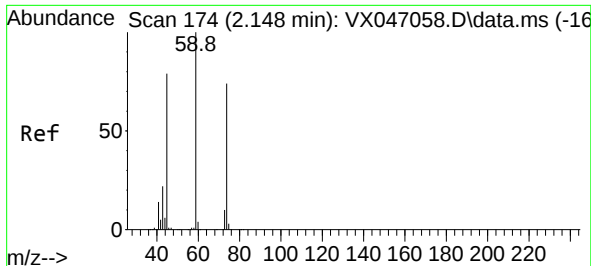


#5
Bromomethane
Concen: 0.344 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.019 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06



Tgt Ion: 94 Resp: 990
Ion Ratio Lower Upper
94 100
96 79.9 72.3 108.5

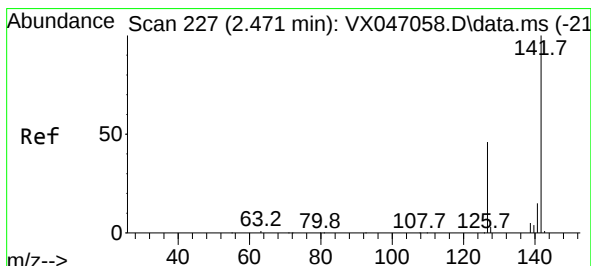
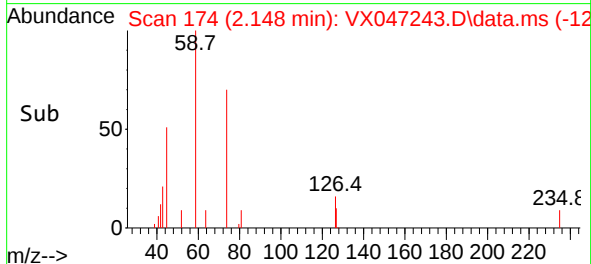
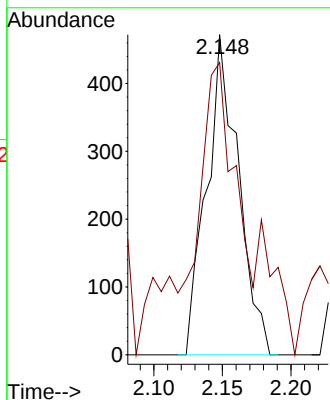
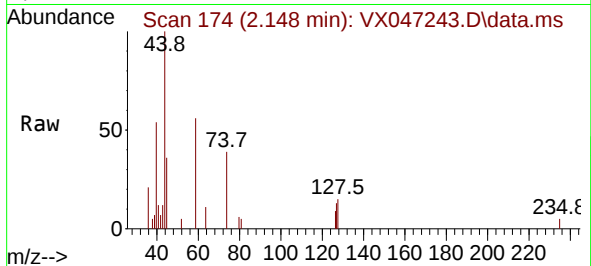




#8
Diethyl Ether
Concen: 0.272 ug/l
RT: 2.148 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

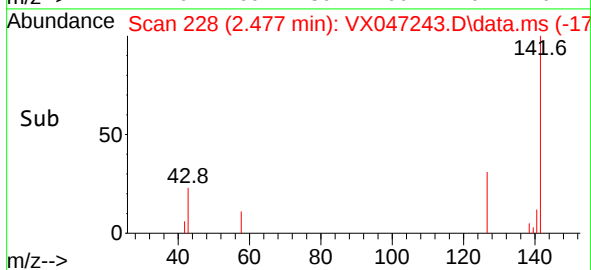
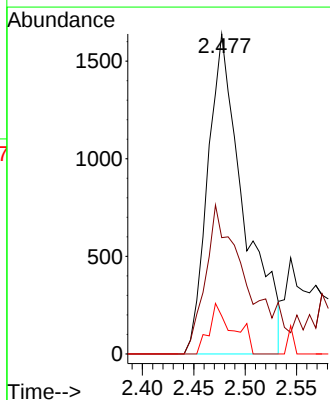
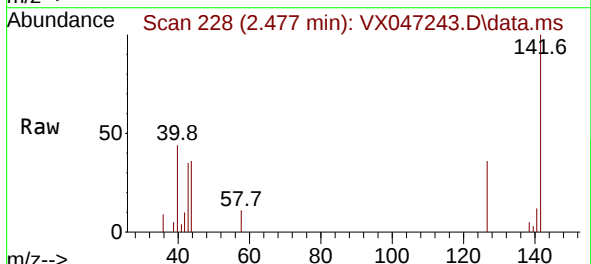
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

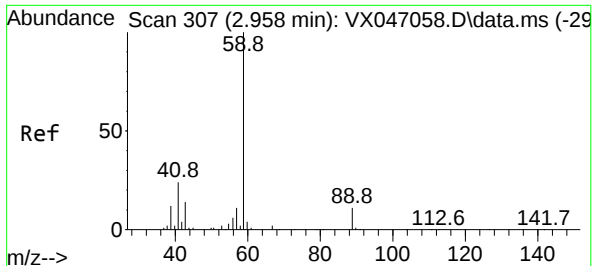
Tgt Ion: 74 Resp: 759
Ion Ratio Lower Upper
74 100
45 128.9 53.0 159.0



#10
Methyl Iodide
Concen: 0.829 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.007 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 142 Resp: 4025
Ion Ratio Lower Upper
142 100
127 53.8 36.6 54.8
141 10.5 10.9 16.3#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 307

Delta R.T. 0.001 min

Lab File: VX047243.D

Acq: 06 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

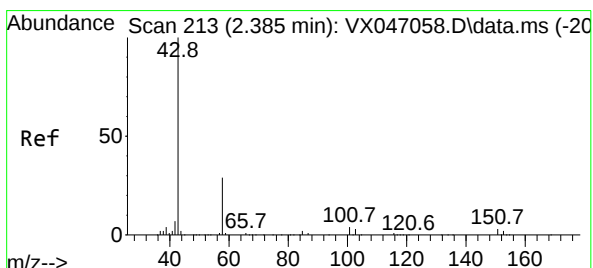
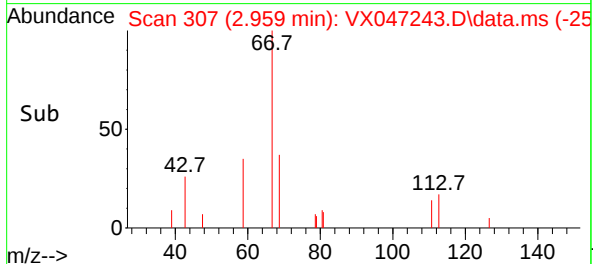
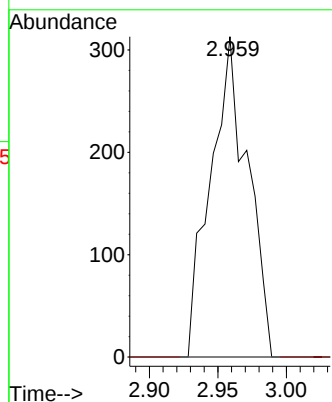
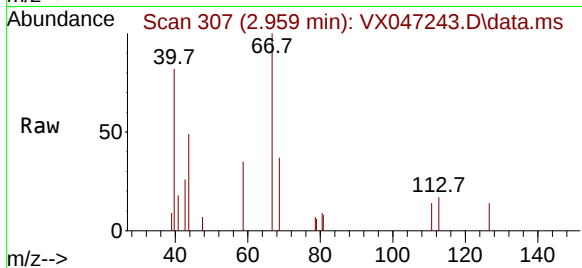
PB169123TB

Tgt Ion: 59 Resp: 590

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#16

Acetone

Concen: 23.151 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.007 min

Lab File: VX047243.D

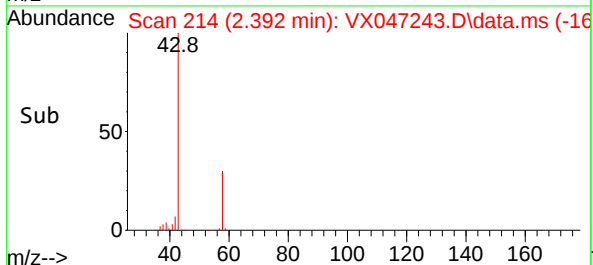
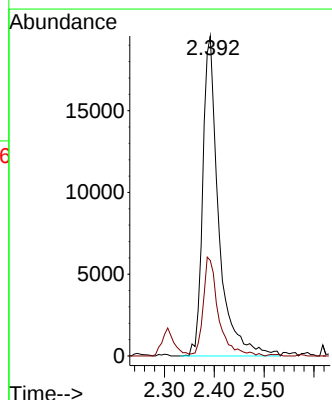
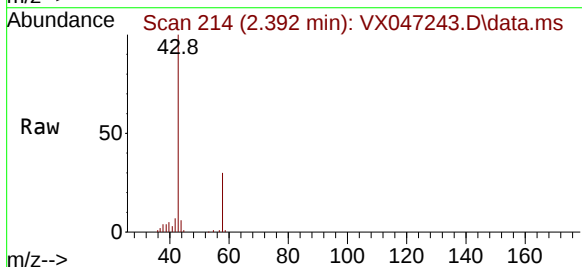
Acq: 06 Aug 2025 13:06

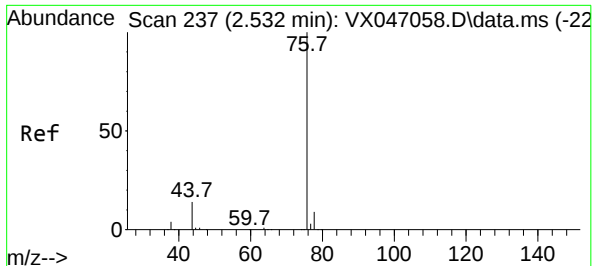
Tgt Ion: 43 Resp: 43399

Ion Ratio Lower Upper

43 100

58 31.6 24.0 36.0





#17

Carbon Disulfide

Concen: 0.287 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047243.D

Acq: 06 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

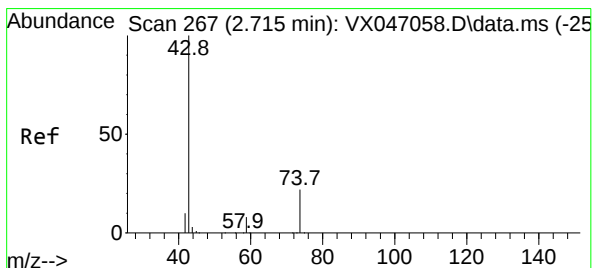
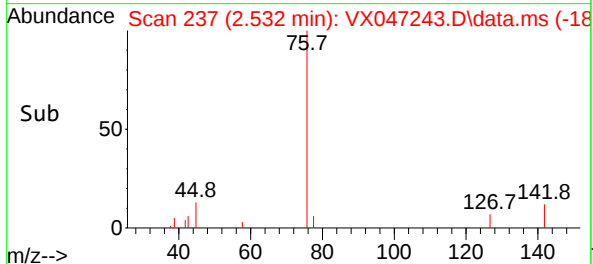
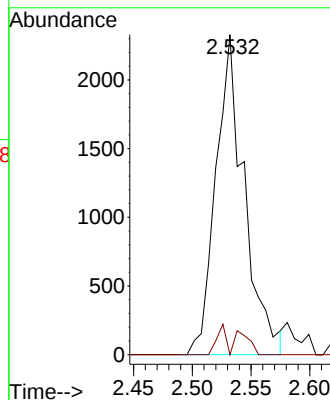
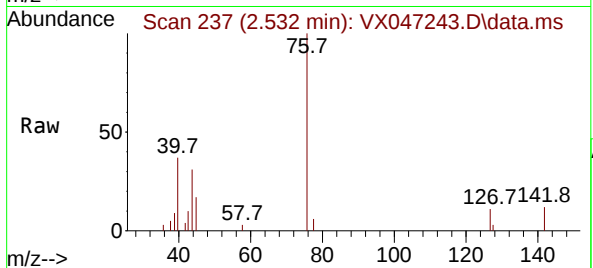
PB169123TB

Tgt Ion: 76 Resp: 3921

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#18

Methyl Acetate

Concen: 5.397 ug/l

RT: 2.721 min Scan# 268

Delta R.T. 0.007 min

Lab File: VX047243.D

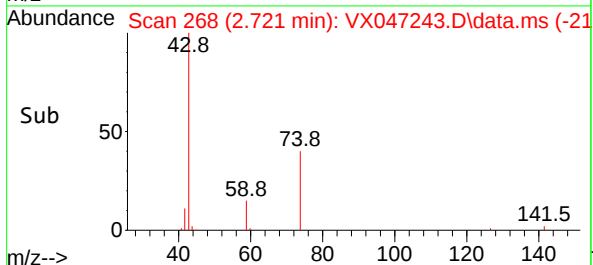
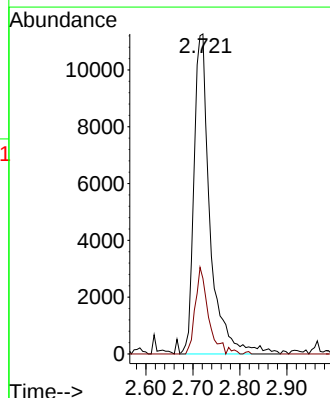
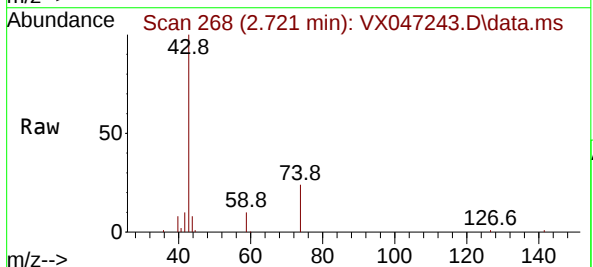
Acq: 06 Aug 2025 13:06

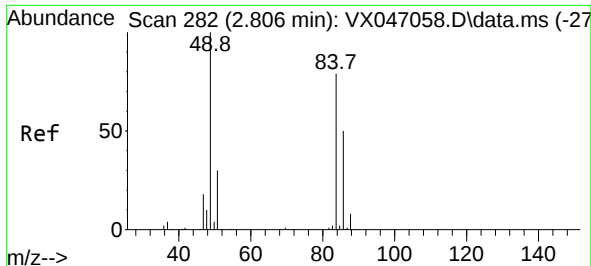
Tgt Ion: 43 Resp: 26888

Ion Ratio Lower Upper

43 100

74 22.4 17.7 26.5

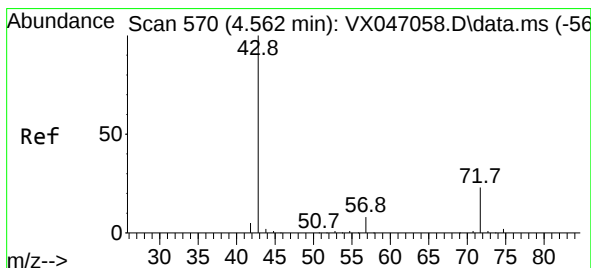
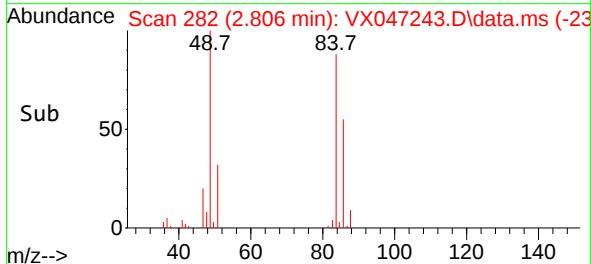
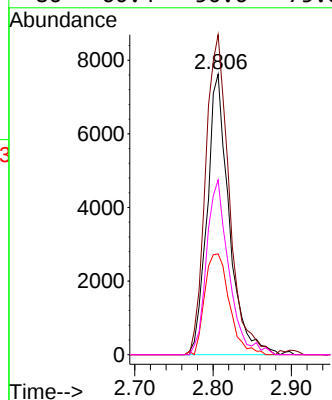
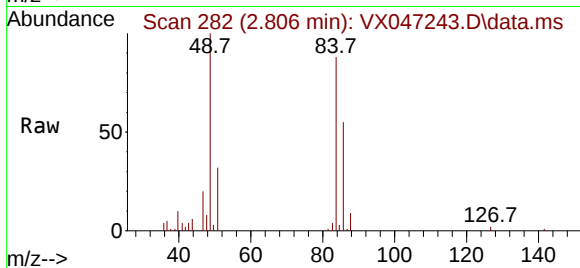




#20
Methylene Chloride
Concen: 2.889 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

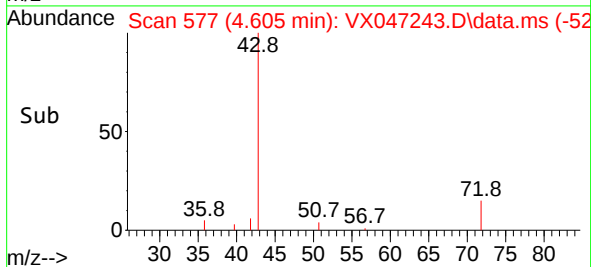
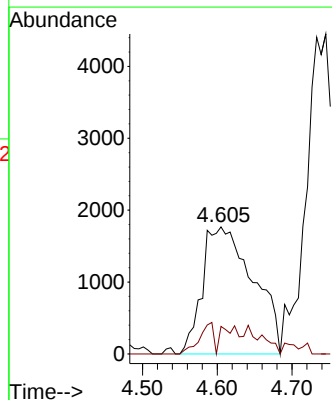
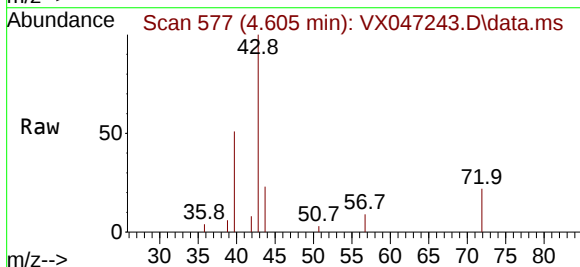
Instrument :
MSVOA_X
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PB169123TB

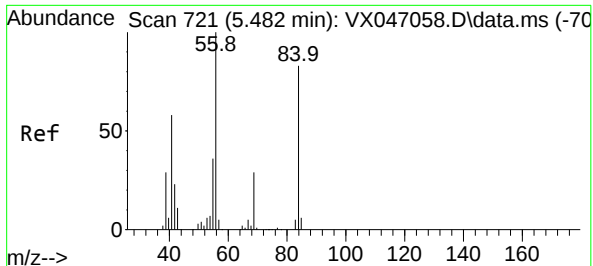
Tgt Ion:	84	Resp:	14900
Ion	Ratio	Lower	Upper
84	100		
49	113.8	101.6	152.4
51	34.9	30.3	45.5
86	60.4	50.6	75.8



#25
2-Butanone
Concen: 3.057 ug/l
RT: 4.605 min Scan# 577
Delta R.T. 0.043 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion:	43	Resp:	8343
Ion	Ratio	Lower	Upper
43	100		
72	17.6	18.8	28.2#

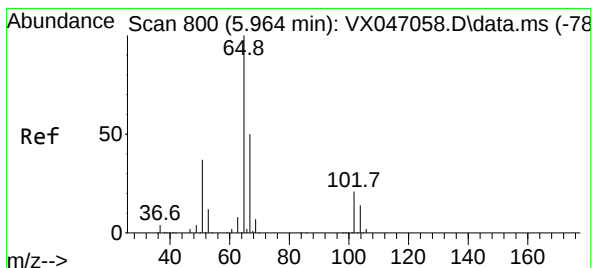
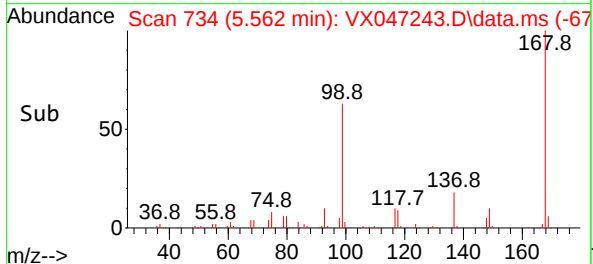
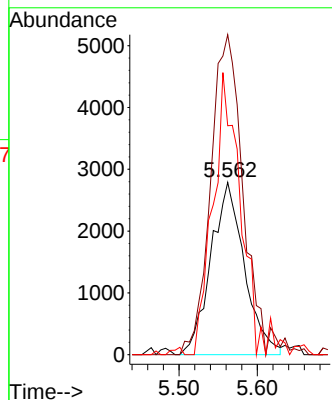
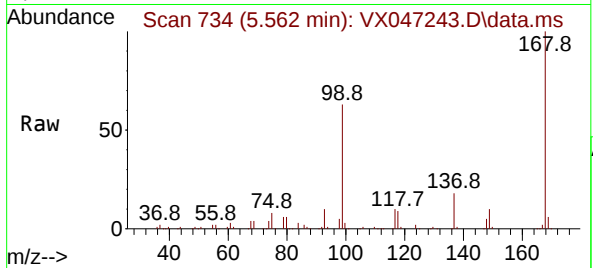




#31
Cyclohexane
Concen: 0.949 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.080 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

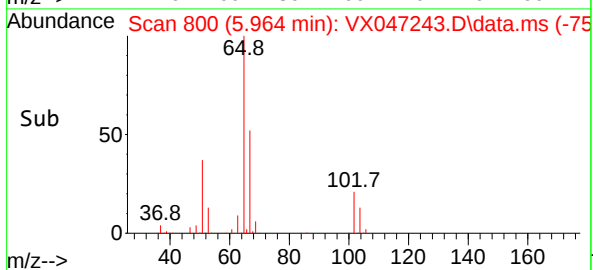
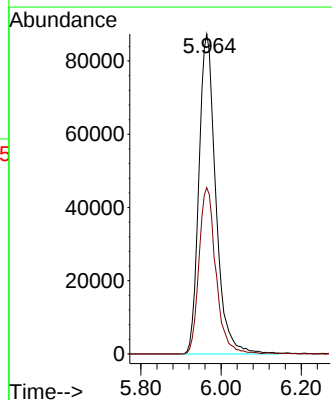
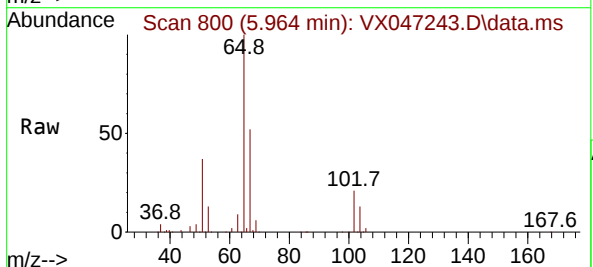
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

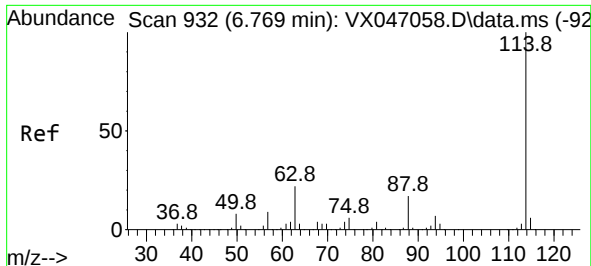
Tgt Ion: 56 Resp: 8305
Ion Ratio Lower Upper
56 100
69 177.4 23.3 34.9#
84 122.9 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 54.525 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 65 Resp: 255146
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.8

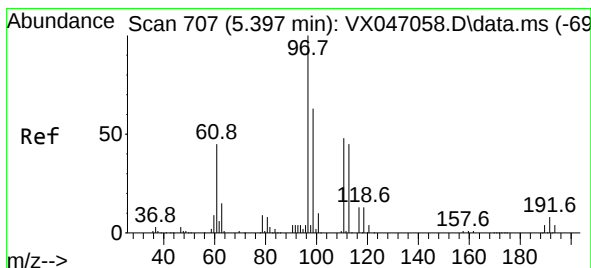
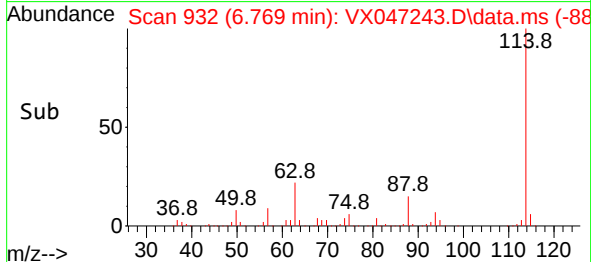
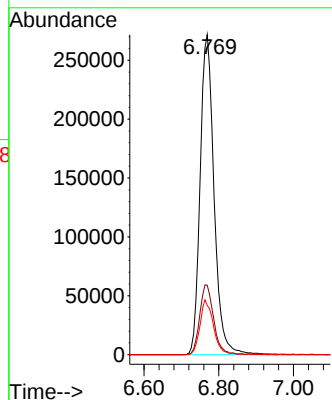
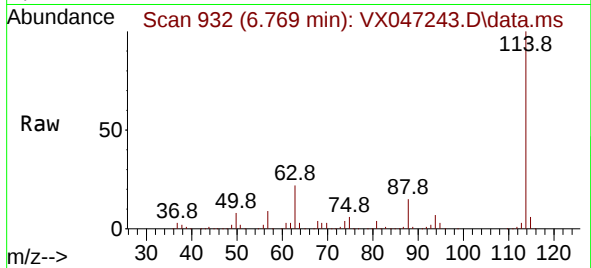




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 912
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

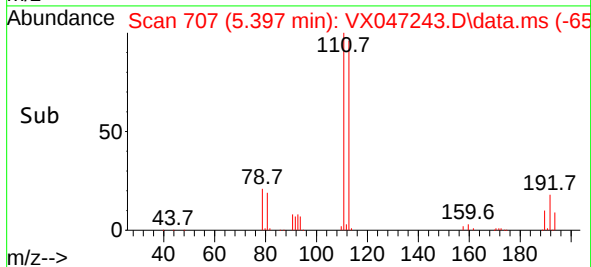
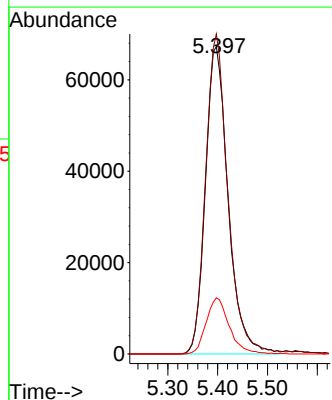
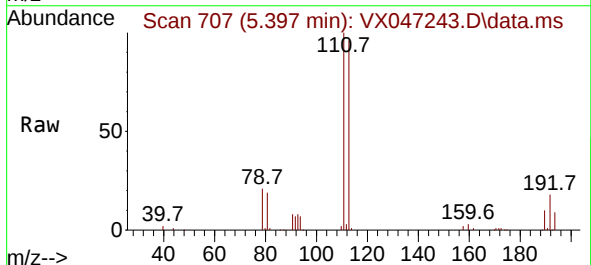
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

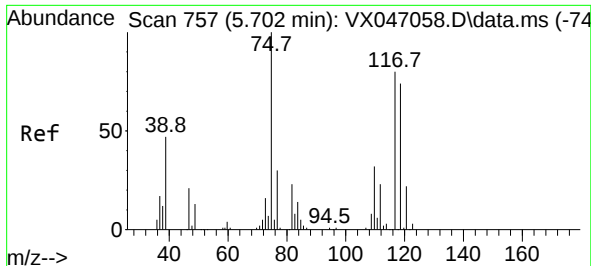
Tgt Ion:114 Resp: 701289
Ion Ratio Lower Upper
114 100
63 21.7 0.0 43.2
88 15.4 0.0 33.8



#35
Dibromofluoromethane
Concen: 49.233 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion:113 Resp: 213179
Ion Ratio Lower Upper
113 100
111 102.4 82.6 124.0
192 18.6 14.9 22.3

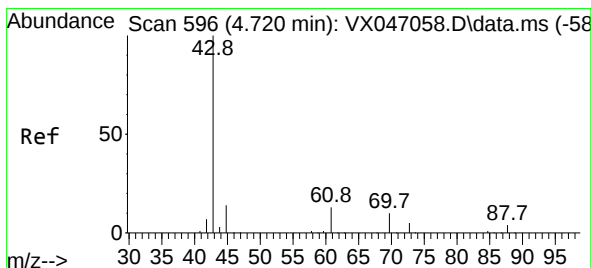
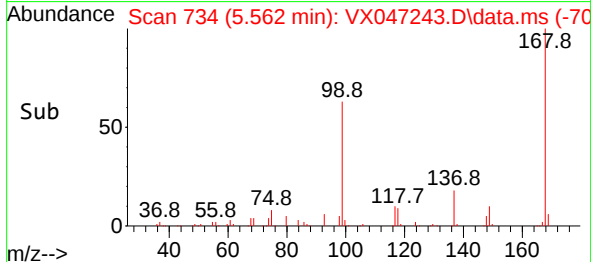
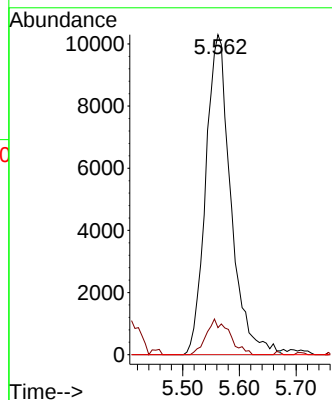
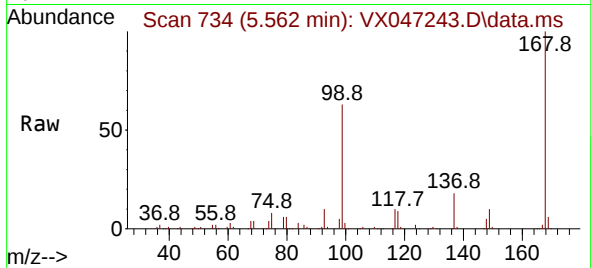




#36
1,1-Dichloropropene
Concen: 4.283 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

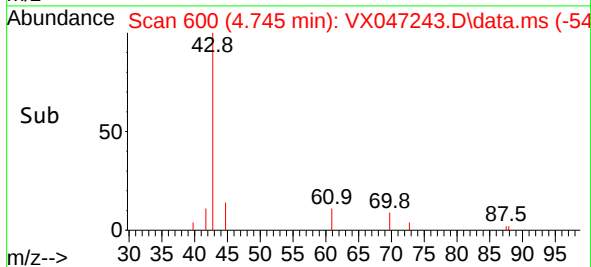
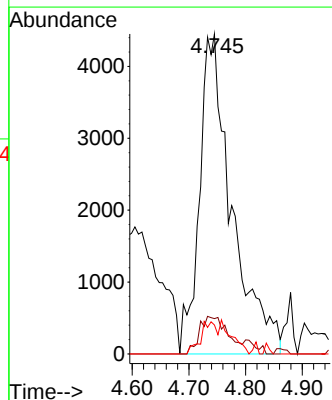
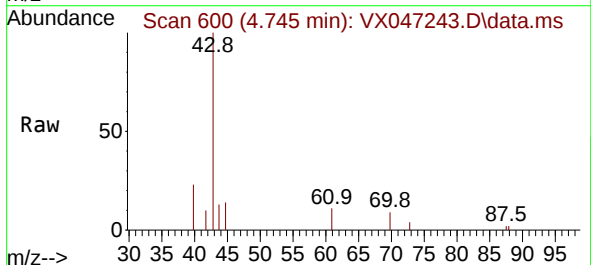
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

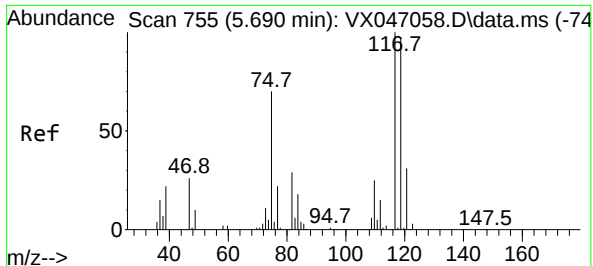
Tgt Ion: 75 Resp: 31613
Ion Ratio Lower Upper
75 100
110 10.3 17.2 51.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 2.590 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.025 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 43 Resp: 17618
Ion Ratio Lower Upper
43 100
61 10.1 10.2 15.2#
70 5.1 8.1 12.1#

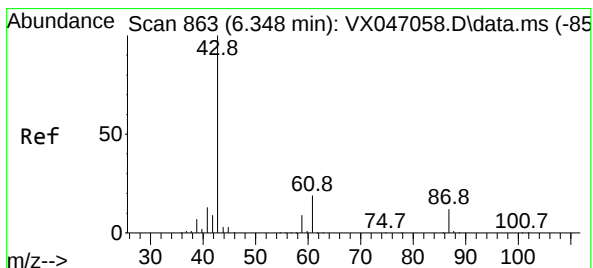
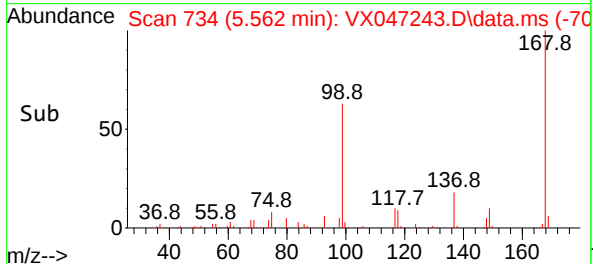
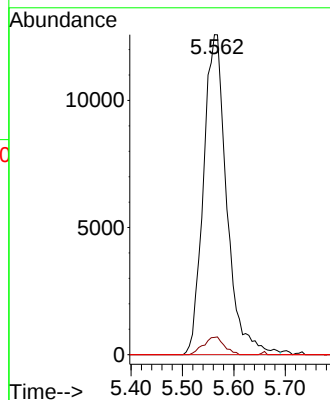
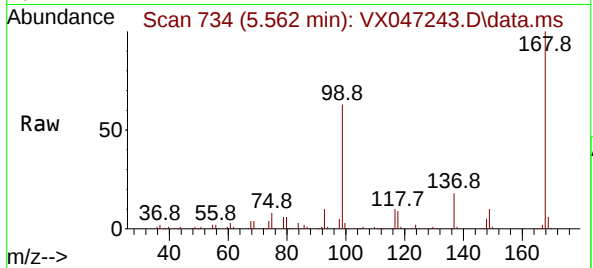




#38
Carbon Tetrachloride
Concen: 5.027 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

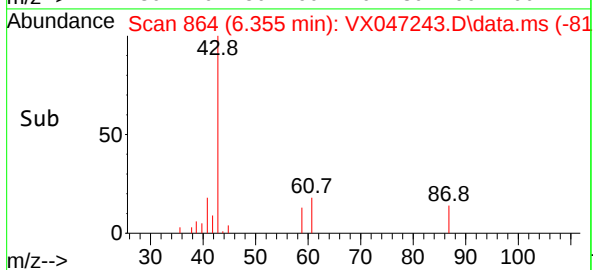
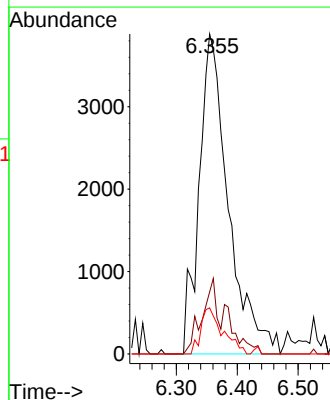
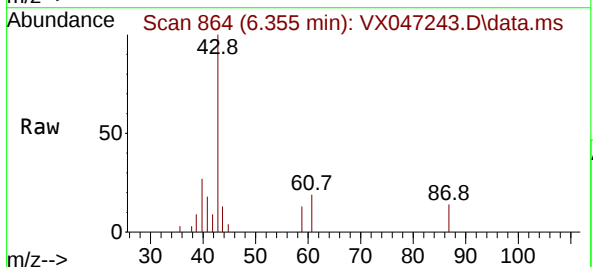
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

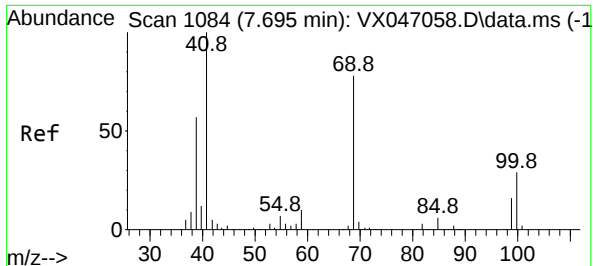
Tgt Ion:117 Resp: 39598
Ion Ratio Lower Upper
117 100
119 5.4 76.6 115.0#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 1.223 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.007 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 43 Resp: 12969
Ion Ratio Lower Upper
43 100
61 12.3 15.1 22.7#
87 10.8 9.7 14.5

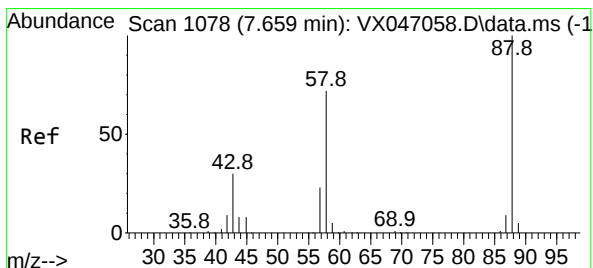
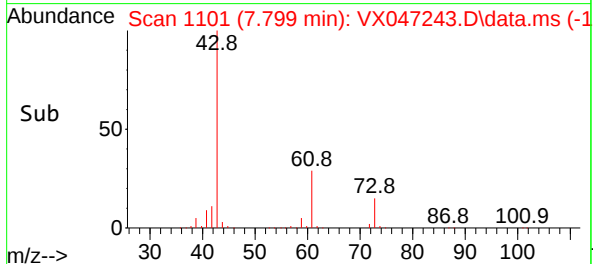
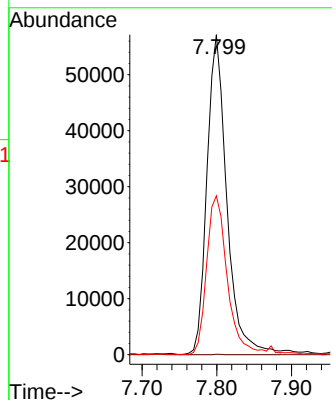
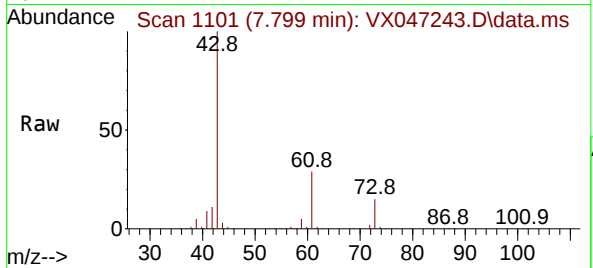




#48
Methyl methacrylate
Concen: 18.276 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

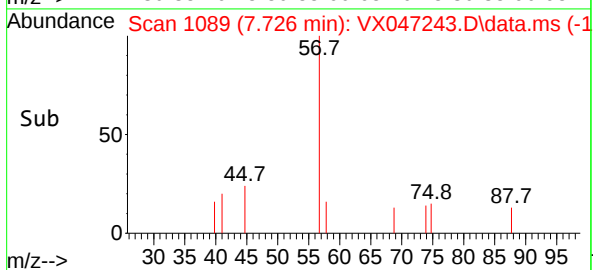
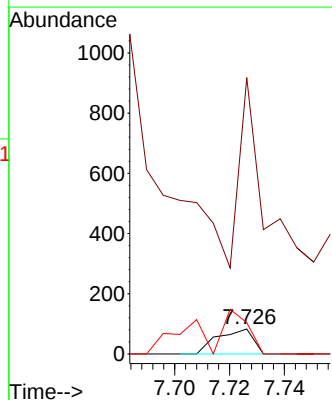
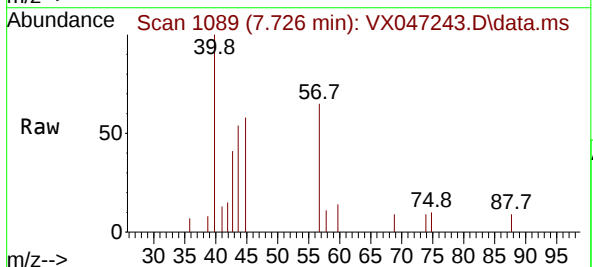
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

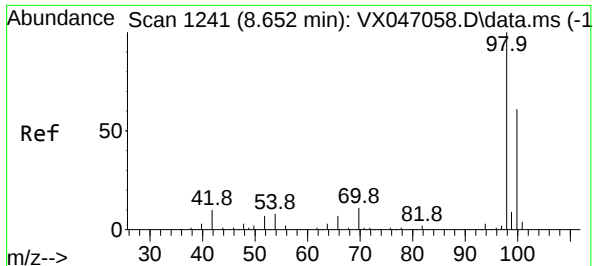
Tgt Ion: 41 Resp: 105561
Ion Ratio Lower Upper
41 100
69 0.0 62.3 93.5#
39 51.0 44.8 67.2



#49
1,4-Dioxane
Concen: 1.126 ug/l
RT: 7.726 min Scan# 1089
Delta R.T. 0.067 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 0.0 33.6 50.4#
58 0.0 58.8 88.2#

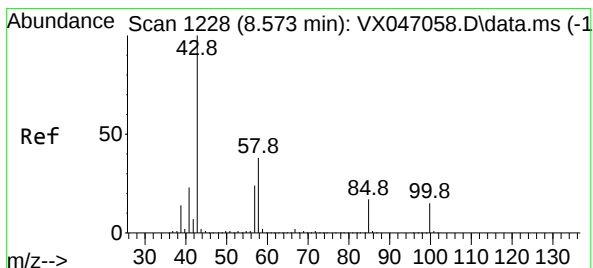
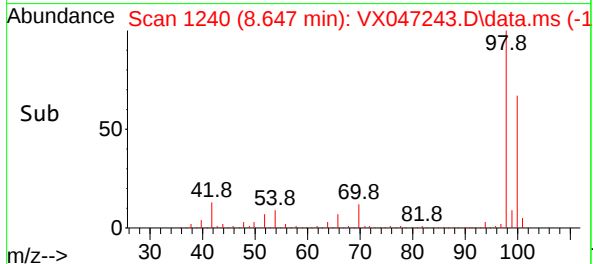
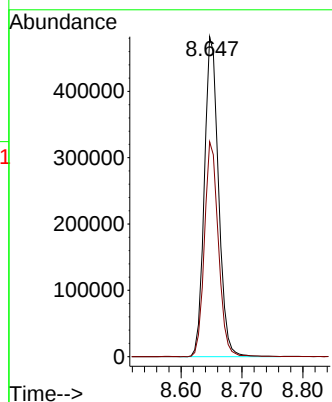
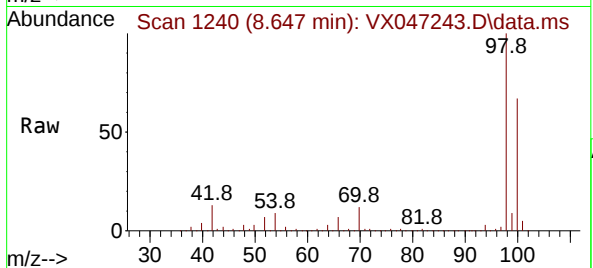




#50
Toluene-d8
Concen: 55.556 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

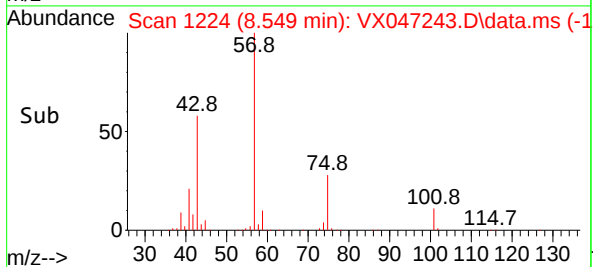
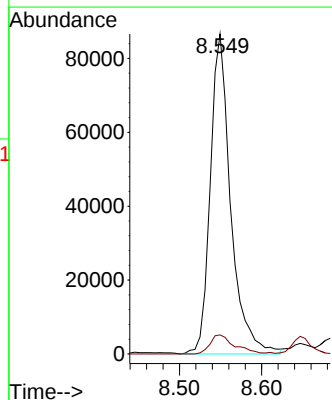
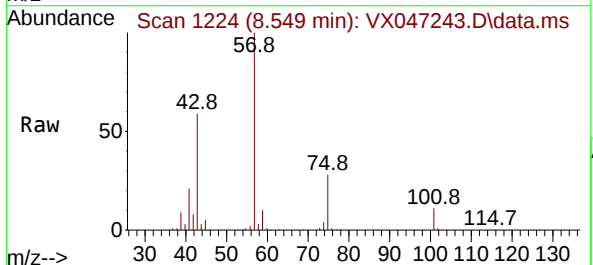
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

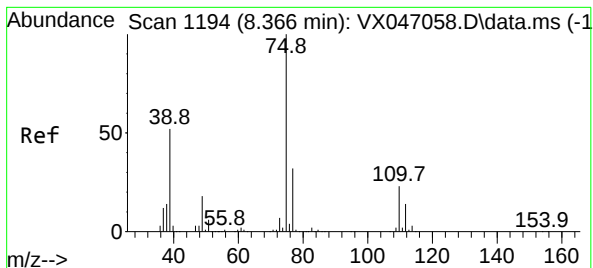
Tgt Ion: 98 Resp: 779034
Ion Ratio Lower Upper
98 100
100 66.3 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 23.713 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 43 Resp: 149444
Ion Ratio Lower Upper
43 100
58 7.2 30.6 45.8#





#54

cis-1,3-Dichloropropene

Concen: 8.212 ug/l

RT: 8.549 min Scan# 11

Delta R.T. 0.183 min

Lab File: VX047243.D

Acq: 06 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

PB169123TB

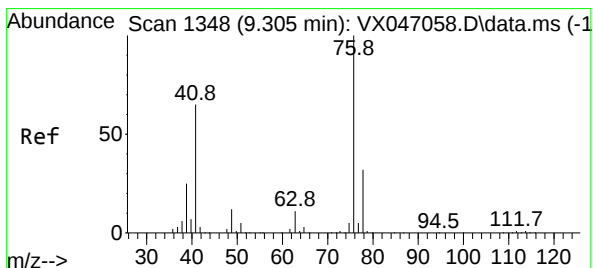
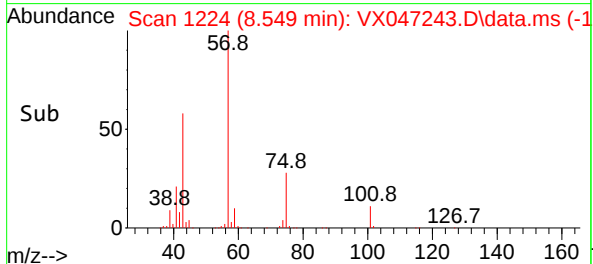
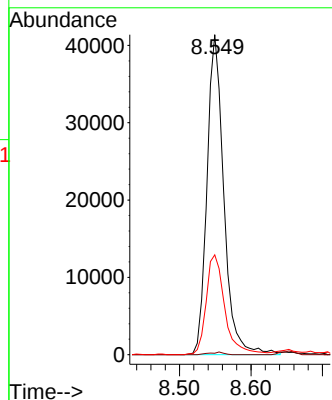
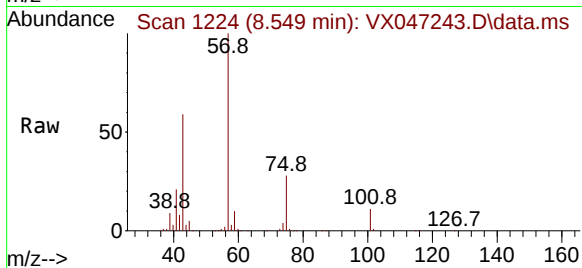
Tgt Ion: 75 Resp: 67774

Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.0#

39 30.0 41.8 62.6#



#57

1,3-Dichloropropane

Concen: 0.568 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX047243.D

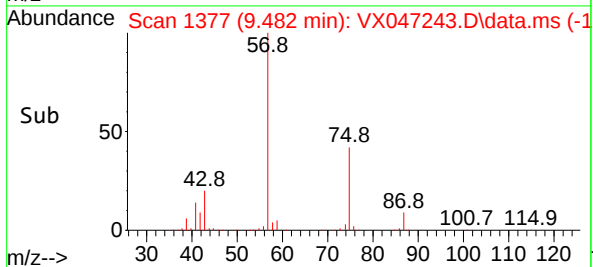
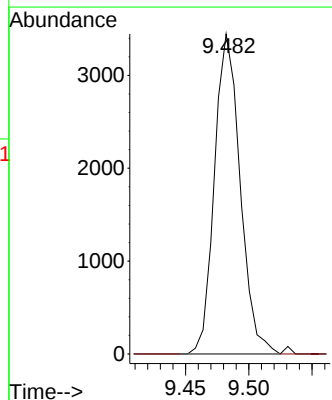
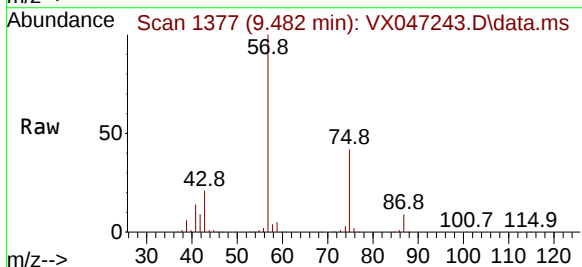
Acq: 06 Aug 2025 13:06

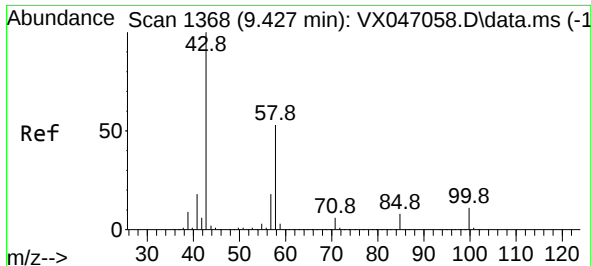
Tgt Ion: 76 Resp: 4863

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

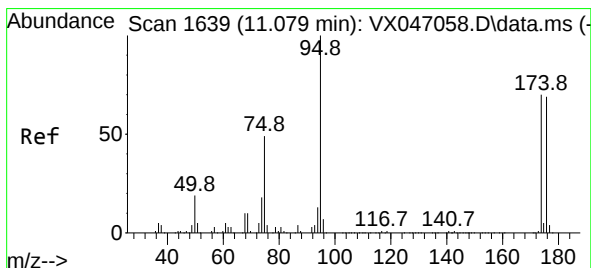
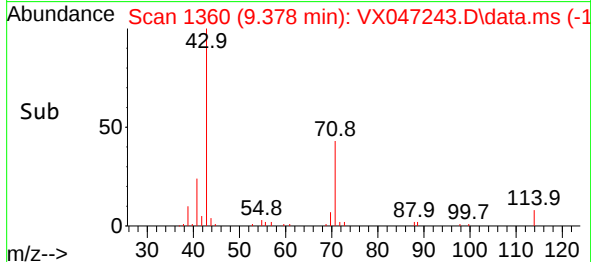
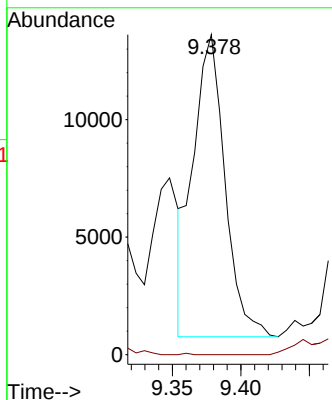
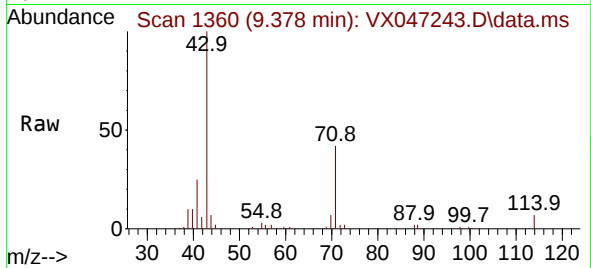




#59
2-Hexanone
Concen: 4.985 ug/l
RT: 9.378 min Scan# 11
Delta R.T. -0.048 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

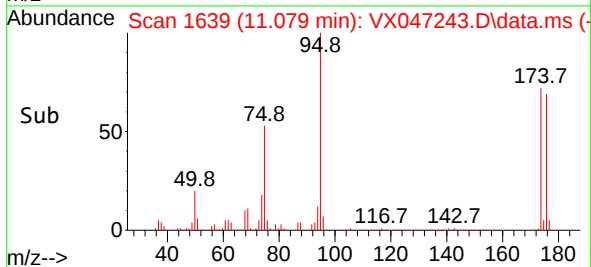
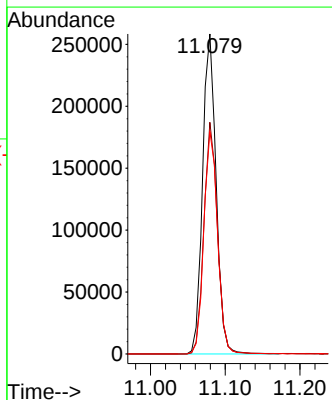
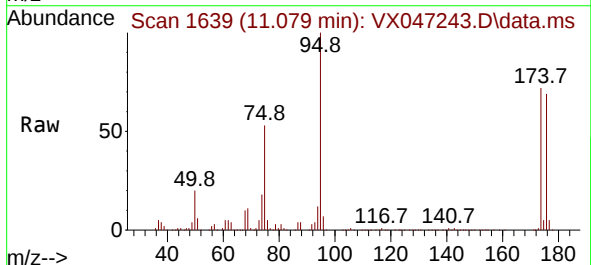
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

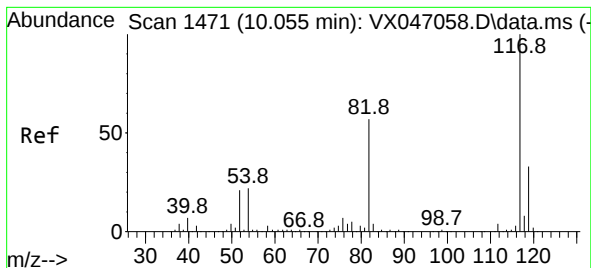
Tgt Ion: 43 Resp: 20757
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 53.773 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 95 Resp: 324946
Ion Ratio Lower Upper
95 100
174 72.3 0.0 144.6
176 70.4 0.0 139.6

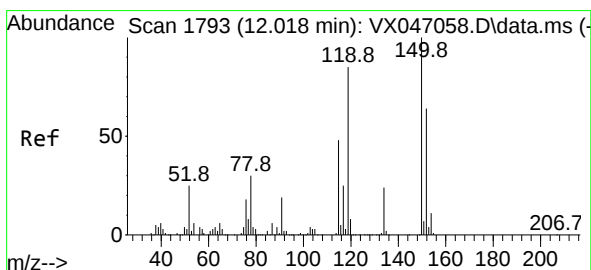
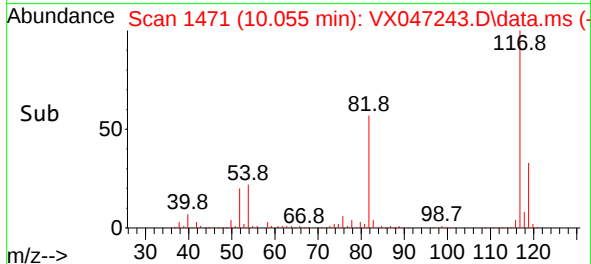
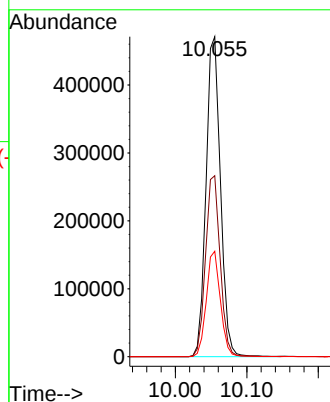
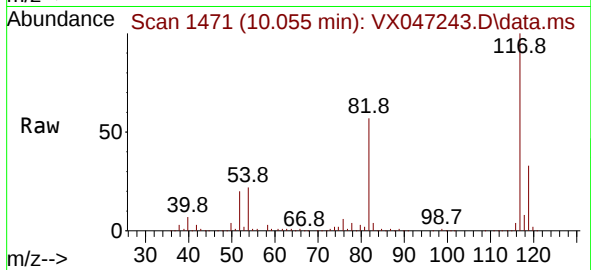




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

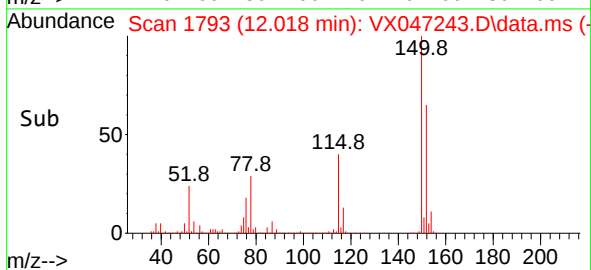
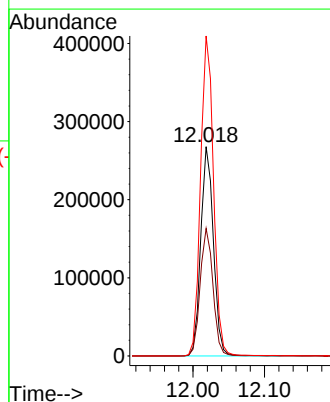
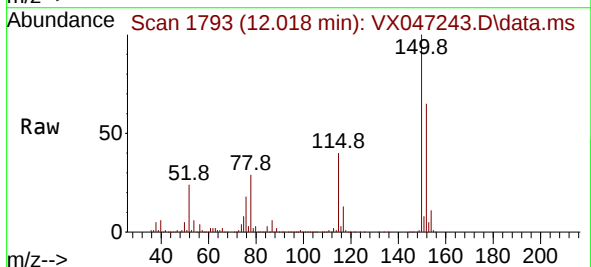
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

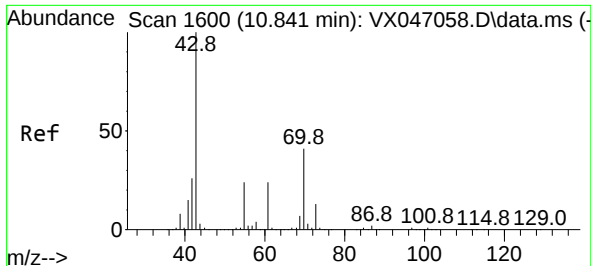
Tgt Ion:117 Resp: 659704
Ion Ratio Lower Upper
117 100
82 56.5 45.4 68.2
119 33.0 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion:152 Resp: 329646
Ion Ratio Lower Upper
152 100
115 61.8 45.6 136.7
150 156.2 0.0 354.6

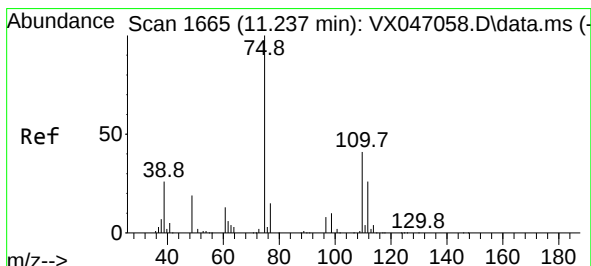
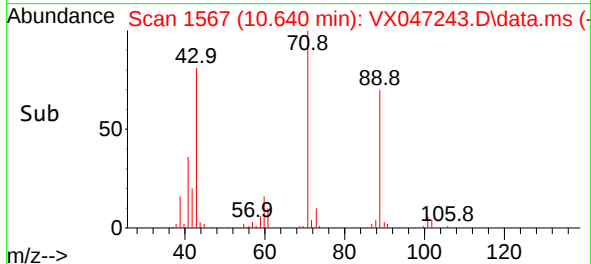
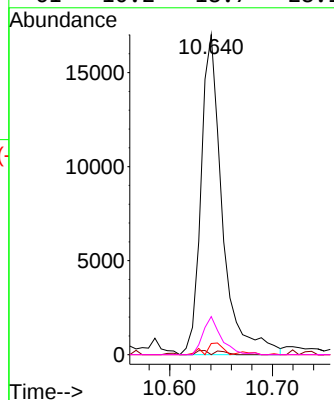
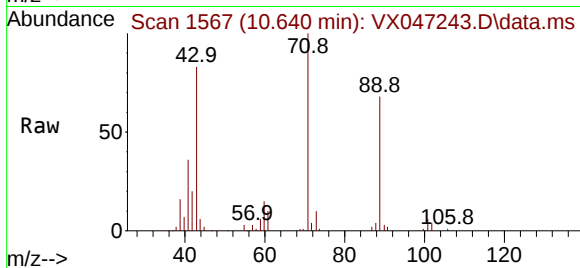




#74
N-amy1 acetate
Concen: 2.346 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.201 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

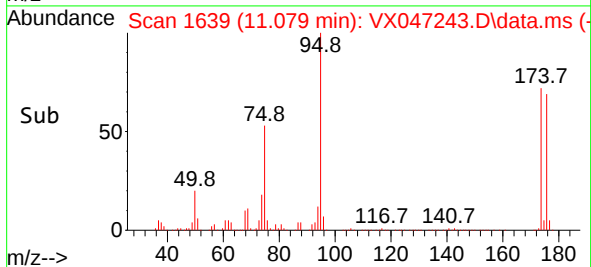
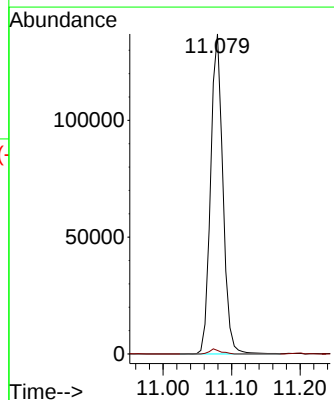
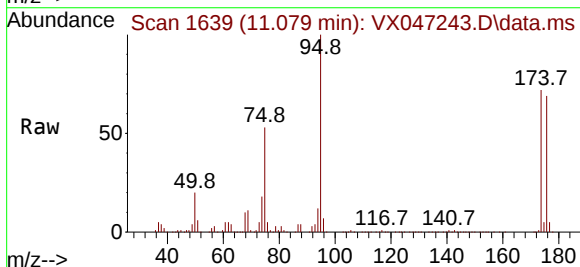
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

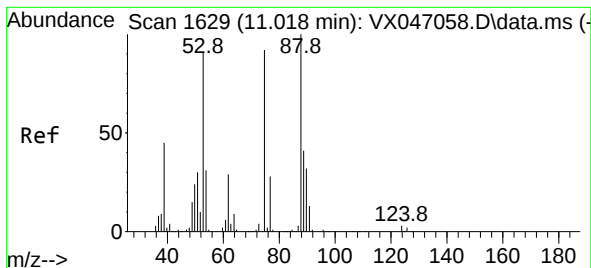
Tgt Ion: 43	Resp: 24622
Ion Ratio	Lower Upper
43 100	
70 0.6	32.3 48.5#
55 3.0	18.9 28.3#
61 10.2	18.7 28.1#



#76
1,2,3-Trichloropropane
Concen: 28.038 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 75	Resp: 171077
Ion Ratio	Lower Upper
75 100	
77 1.4	21.6 65.0#

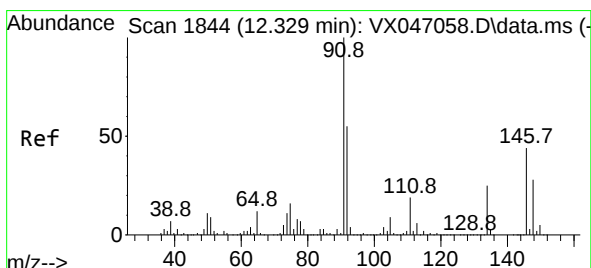
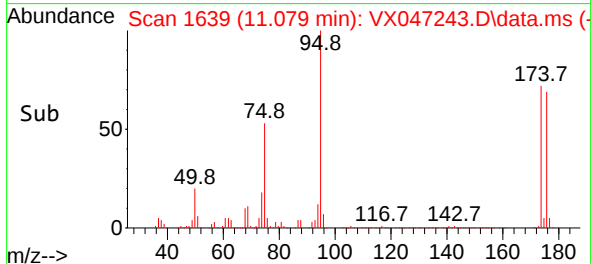
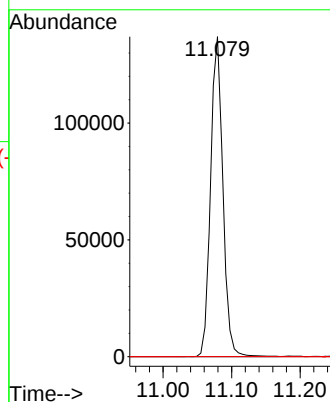
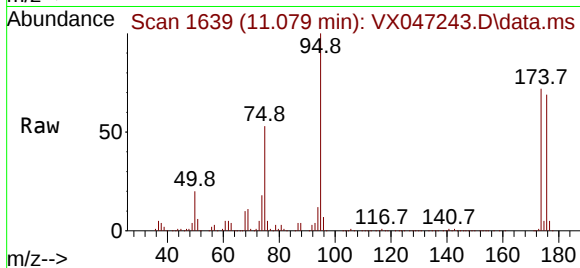




#81
trans-1,4-Dichloro-2-butene
Concen: 72.237 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

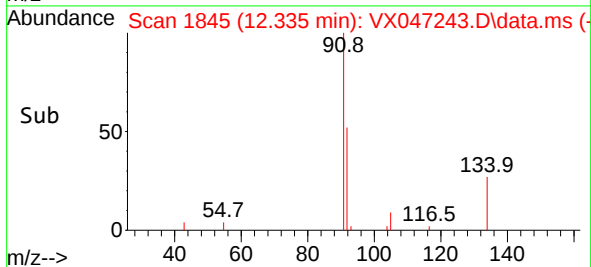
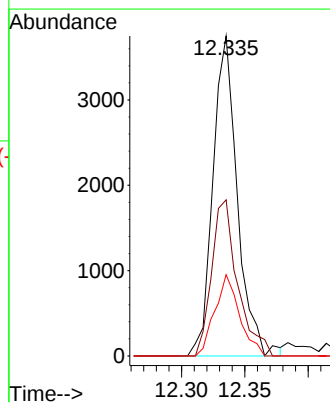
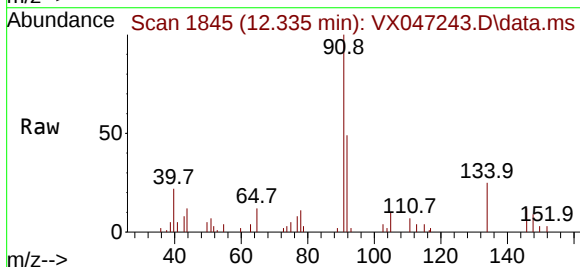
Instrument :
MSVOA_X
ClientSampleId :
PB169123TB

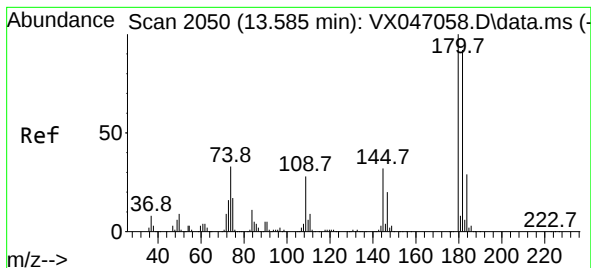
Tgt Ion: 75 Resp: 171077
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#



#89
n-Butylbenzene
Concen: 0.240 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.007 min
Lab File: VX047243.D
Acq: 06 Aug 2025 13:06

Tgt Ion: 91 Resp: 5031
Ion Ratio Lower Upper
91 100
92 51.8 27.5 82.5
134 25.6 12.8 38.3





#93

1,2,4-Trichlorobenzene

Concen: 0.250 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.007 min

Lab File: VX047243.D

Acq: 06 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

PB169123TB

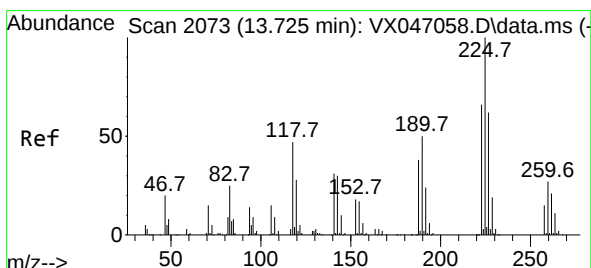
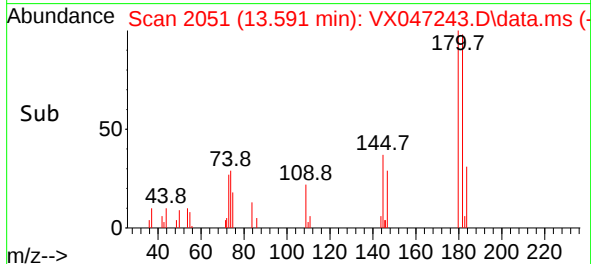
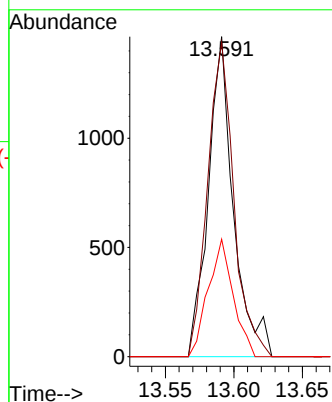
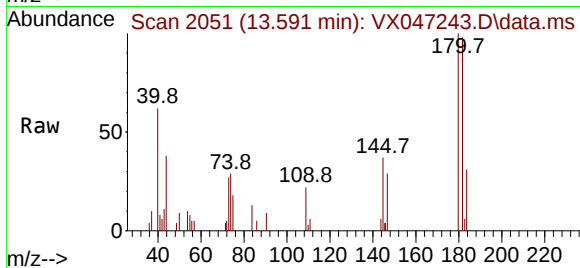
Tgt Ion:180 Resp: 1869

Ion Ratio Lower Upper

180 100

182 102.3 47.3 141.8

145 36.5 16.4 49.1



#94

Hexachlorobutadiene

Concen: 1.201 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX047243.D

Acq: 06 Aug 2025 13:06

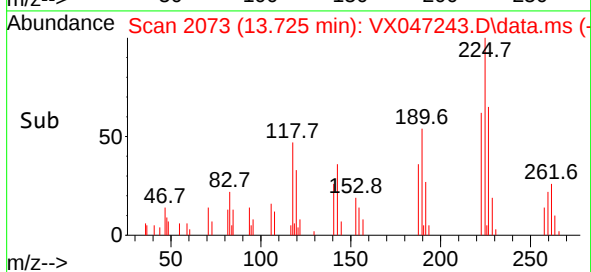
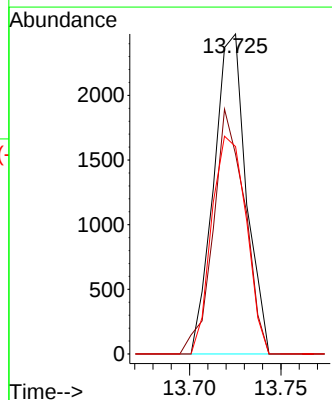
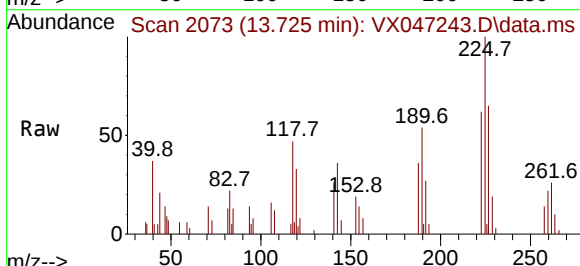
Tgt Ion:225 Resp: 3058

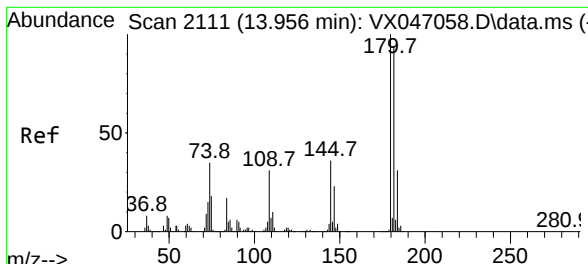
Ion Ratio Lower Upper

225 100

223 74.2 31.6 95.0

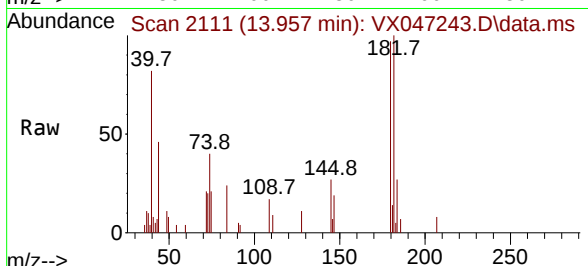
227 72.4 32.9 98.6





#96
 1,2,3-Trichlorobenzene
 Concen: 0.256 ug/l
 RT: 13.957 min Scan# 2111
 Delta R.T. 0.000 min
 Lab File: VX047243.D
 Acq: 06 Aug 2025 13:06

Instrument :
 MSVOA_X
 ClientSampleId :
 PB169123TB



Tgt Ion:	180	Resp:	1843
Ion Ratio	Lower	Upper	
180	100		
182	93.4	46.9	140.6
145	33.5	17.3	52.0

