

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080625\
 Data File : VX047246.D
 Acq On : 06 Aug 2025 14:51
 Operator : JC/MD
 Sample : Q2780-04RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

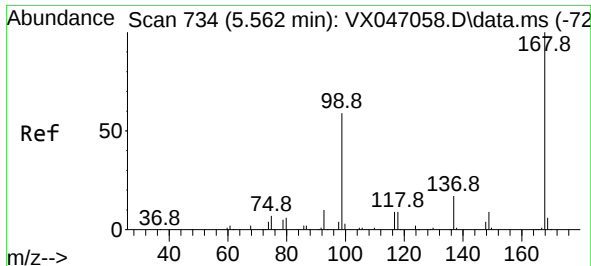
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Quant Time: Aug 07 01:18:28 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	5.556	168	274014	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	465715	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	407634	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	211138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	169555	49.674	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.340%			
35) Dibromofluoromethane	5.391	113	144521	50.260	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.520%			
50) Toluene-d8	8.647	98	423681	45.498	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 91.000%#			
62) 4-Bromofluorobenzene	11.079	95	202423	50.441	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.880%			
Target Compounds						Qvalue
5) Bromomethane	1.642	94	804	0.382	ug/l	92
10) Methyl Iodide	2.477	142	2456	0.693	ug/l #	86
11) Tert butyl alcohol	2.965	59	510	Below Cal	#	72
13) Acrolein	2.246	56	798	1.086	ug/l #	50
16) Acetone	2.386	43	61163	44.730	ug/l	98
17) Carbon Disulfide	2.526	76	4924	0.494	ug/l #	87
18) Methyl Acetate	2.715	43	26924	7.409	ug/l	99
20) Methylene Chloride	2.800	84	21890	5.819	ug/l	98
25) 2-Butanone	4.587	43	9363	4.703	ug/l #	86
31) Cyclohexane	5.556	56	6588	1.032	ug/l #	12
36) 1,1-Dichloropropene	5.556	75	23593	4.813	ug/l #	49
37) Ethyl Acetate	4.733	43	13020	2.883	ug/l #	91
38) Carbon Tetrachloride	5.550	117	28548	5.457	ug/l #	17
43) Isopropyl Acetate	6.348	43	12231	1.737	ug/l	95
48) Methyl methacrylate	7.793	41	101749	26.526	ug/l #	46
49) 1,4-Dioxane	7.793	88	135	3.094	ug/l #	1
51) 4-Methyl-2-Pentanone	8.543	43	148884	35.574	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	67204	12.262	ug/l #	59
57) 1,3-Dichloropropane	9.482	76	4629	0.814	ug/l #	43
59) 2-Hexanone	9.372	43	20659	7.471	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	105736	27.056	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	105736	69.707	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.756	75	198	0.217	ug/l #	2
94) Hexachlorobutadiene	13.719	225	451	0.277	ug/l	85

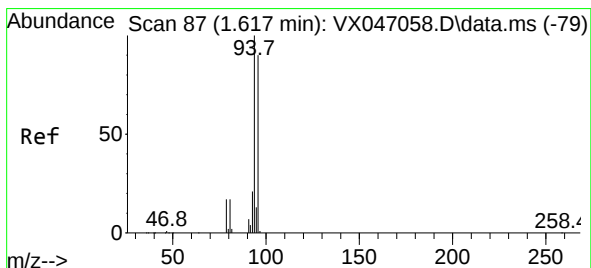
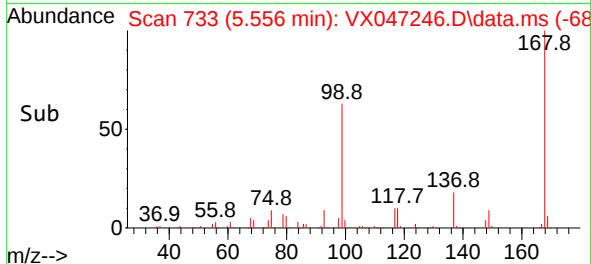
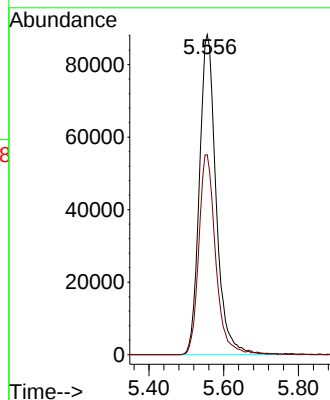
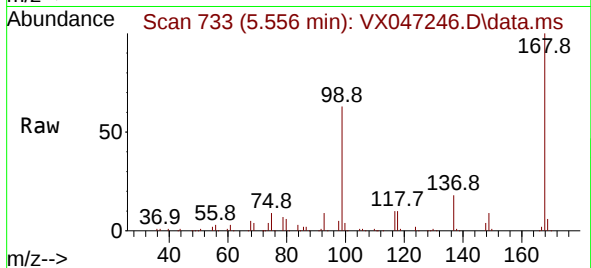
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

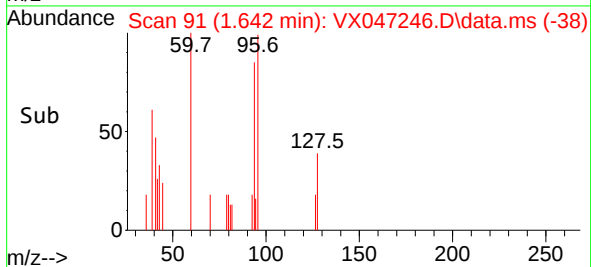
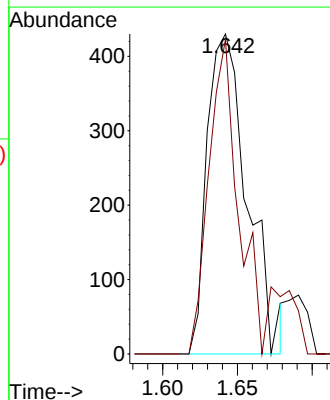
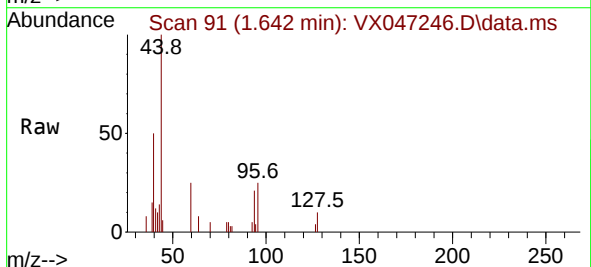
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MSVOA_X
ClientSampleId :
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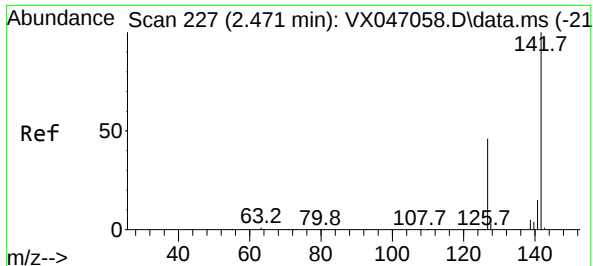
Tgt Ion:168 Resp: 274014
Ion Ratio Lower Upper
168 100
99 62.5 48.0 72.0



#5
Bromomethane
Concen: 0.382 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.025 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion: 94 Resp: 804
Ion Ratio Lower Upper
94 100
96 98.4 72.3 108.5

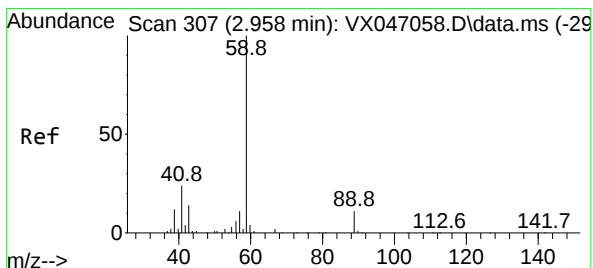
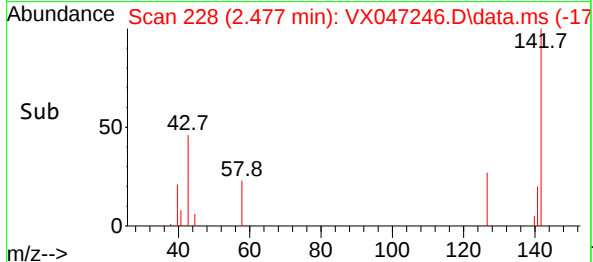
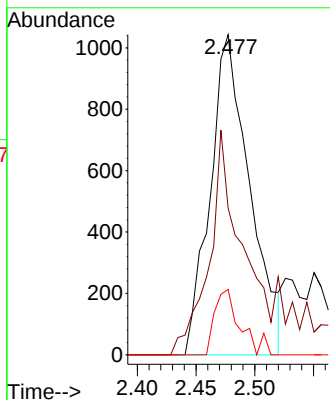
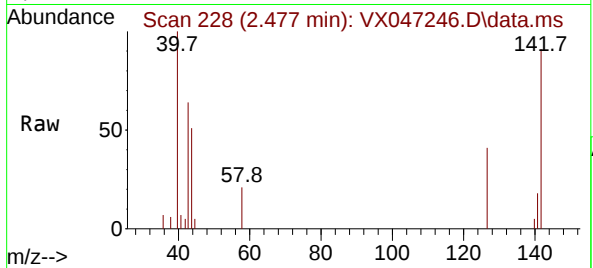




#10
Methyl Iodide
Concen: 0.693 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.007 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

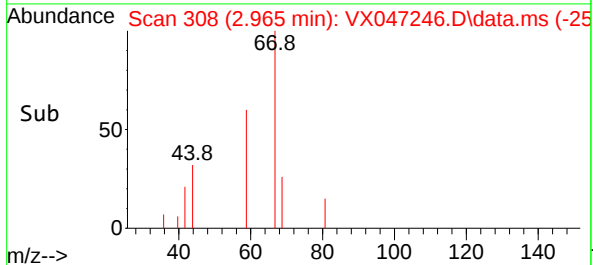
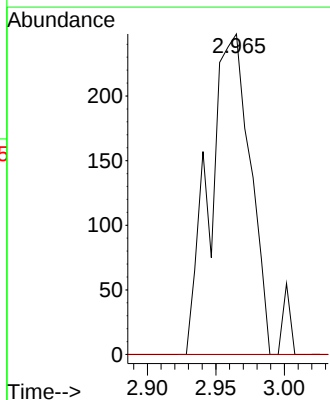
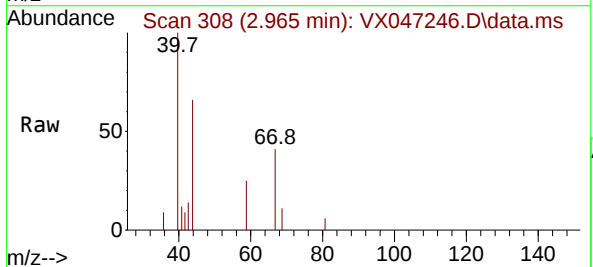
Instrument :
MSVOA_X
ClientSampleId :
TP-3

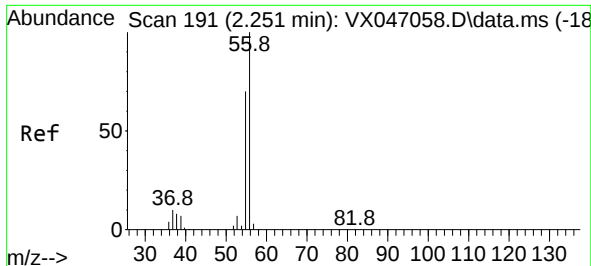
Tgt Ion:142 Resp: 2456
Ion Ratio Lower Upper
142 100
127 57.8 36.6 54.8#
141 13.1 10.9 16.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.965 min Scan# 308
Delta R.T. 0.007 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion: 59 Resp: 510
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 1.086 ug/l

RT: 2.246 min Scan# 191

Delta R.T. -0.006 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

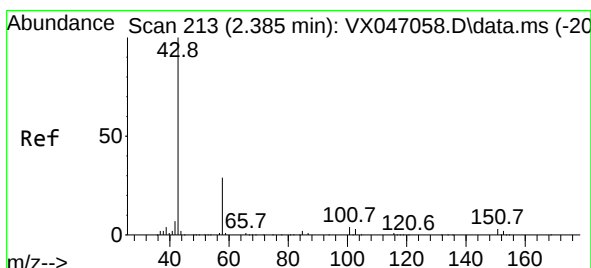
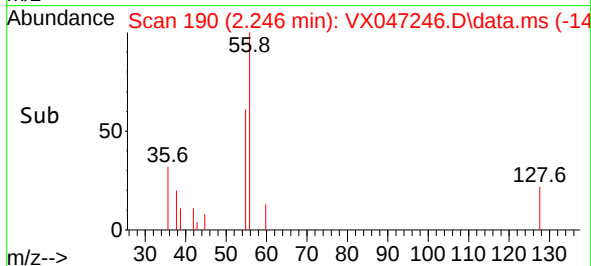
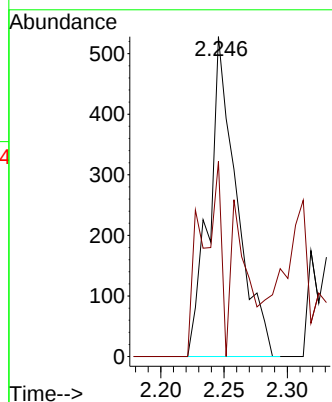
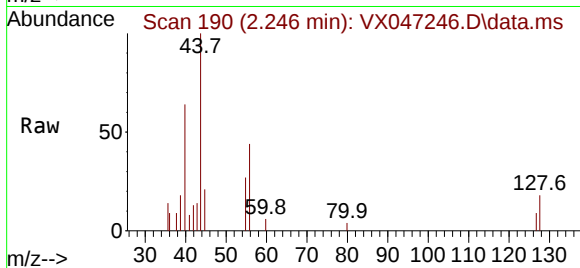
TP-3

Tgt Ion: 56 Resp: 798

Ion Ratio Lower Upper

56 100

55 29.1 55.7 83.5#



#16

Acetone

Concen: 44.730 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX047246.D

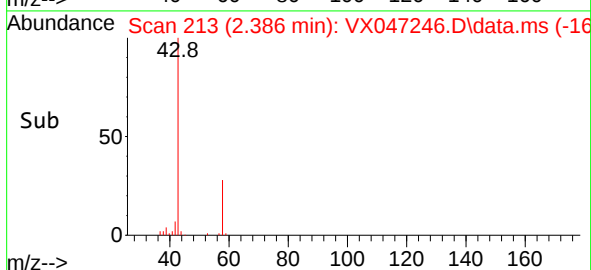
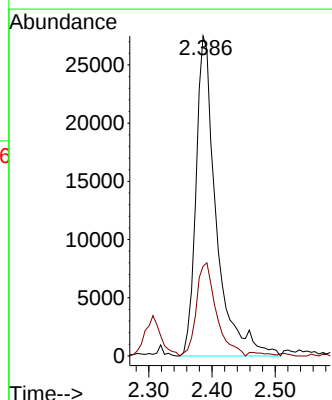
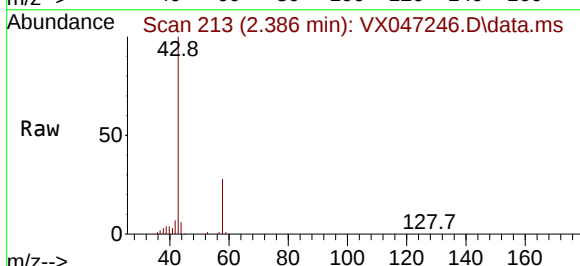
Acq: 06 Aug 2025 14:51

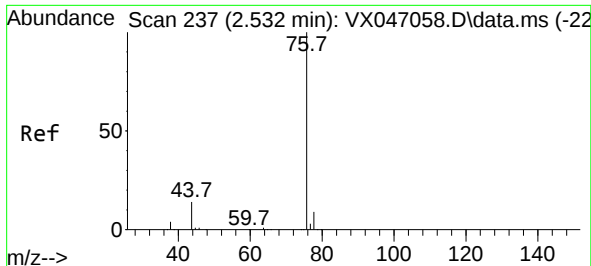
Tgt Ion: 43 Resp: 61163

Ion Ratio Lower Upper

43 100

58 28.7 24.0 36.0





#17

Carbon Disulfide

Concen: 0.494 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

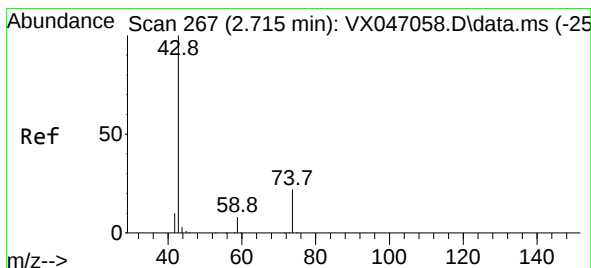
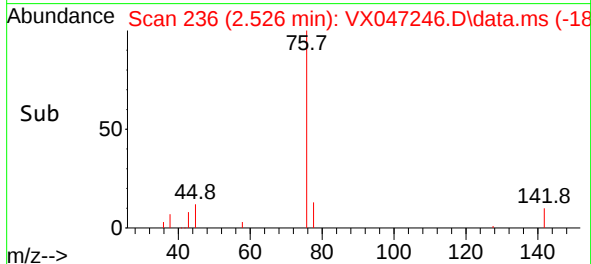
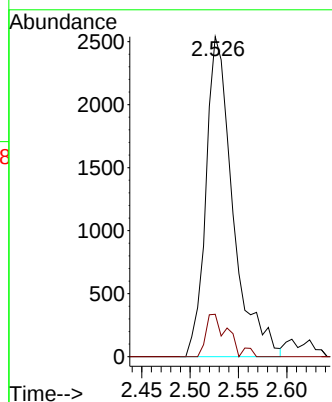
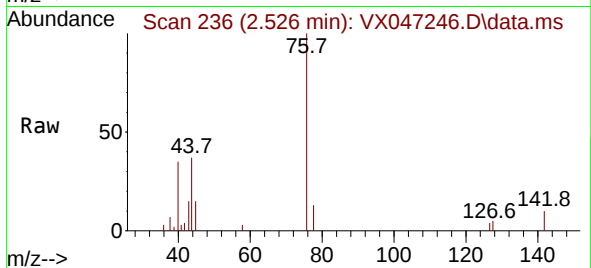
TP-3

Tgt Ion: 76 Resp: 4924

Ion Ratio Lower Upper

76 100

78 13.3 7.0 10.4#



#18

Methyl Acetate

Concen: 7.409 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX047246.D

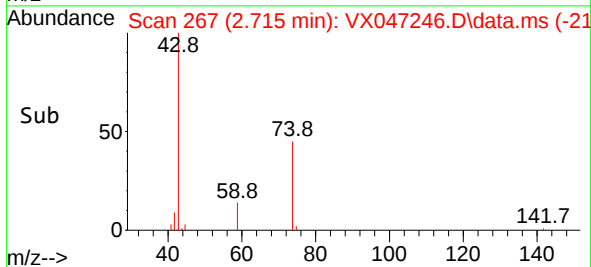
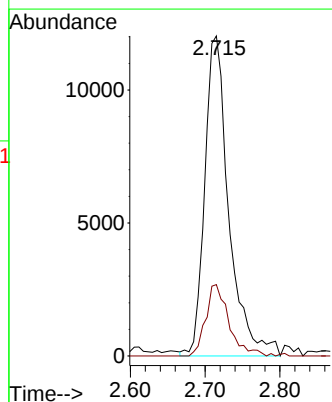
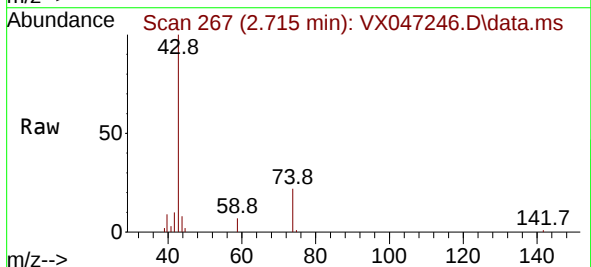
Acq: 06 Aug 2025 14:51

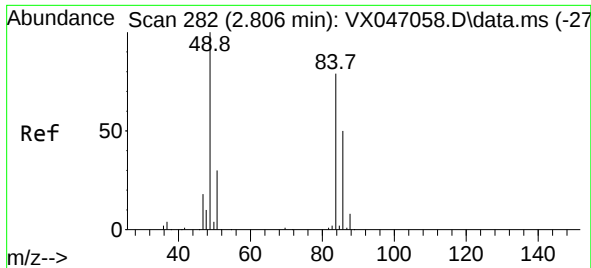
Tgt Ion: 43 Resp: 26924

Ion Ratio Lower Upper

43 100

74 21.4 17.7 26.5

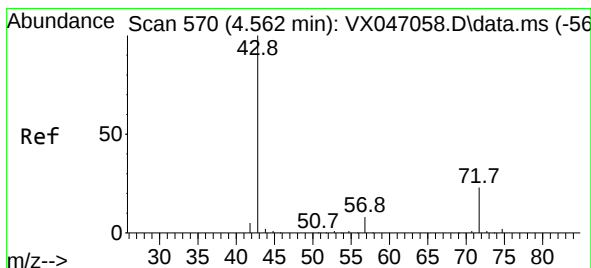
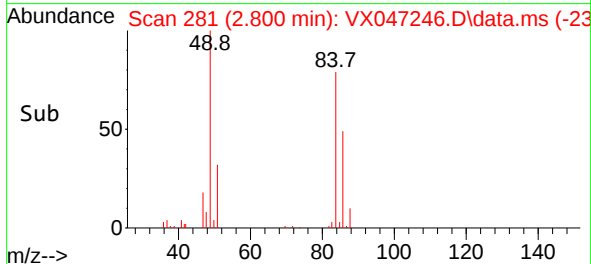
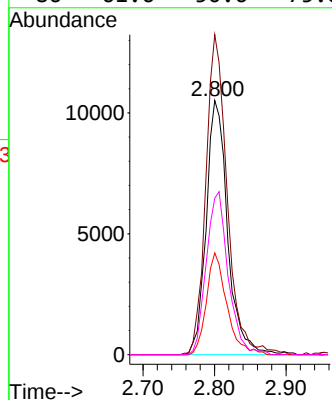
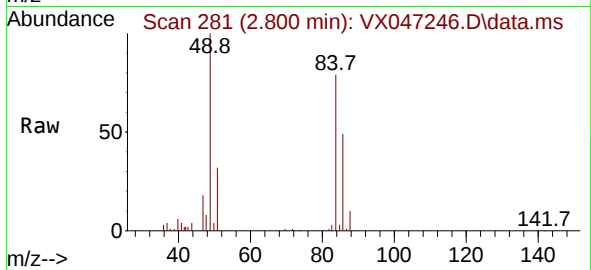




#20
Methylene Chloride
Concen: 5.819 ug/l
RT: 2.800 min Scan# 21890
Delta R.T. -0.006 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

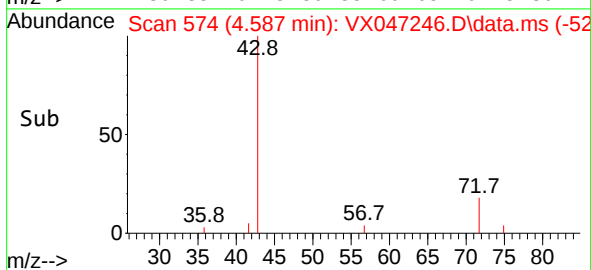
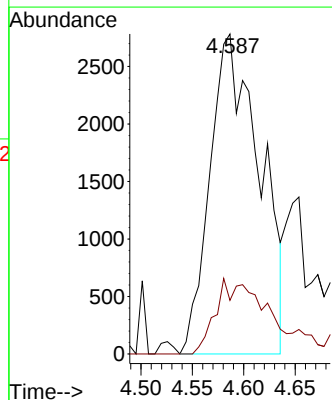
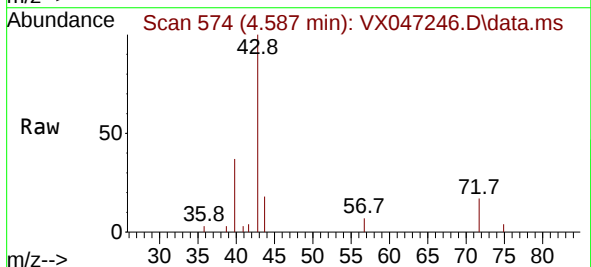
Instrument :
MSVOA_X
ClientSampleId :
TP-3

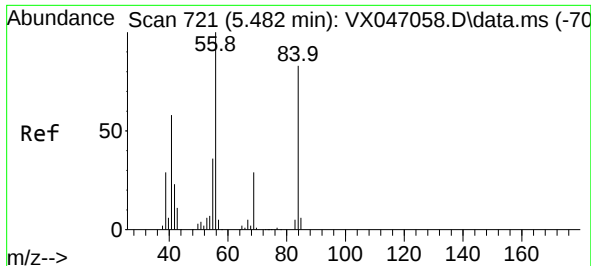
Tgt Ion:	84	Resp:	21890
Ion	Ratio	Lower	Upper
84	100		
49	125.9	101.6	152.4
51	40.0	30.3	45.5
86	61.6	50.6	75.8



#25
2-Butanone
Concen: 4.703 ug/l
RT: 4.587 min Scan# 574
Delta R.T. 0.025 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion:	43	Resp:	9363
Ion	Ratio	Lower	Upper
43	100		
72	16.4	18.8	28.2#

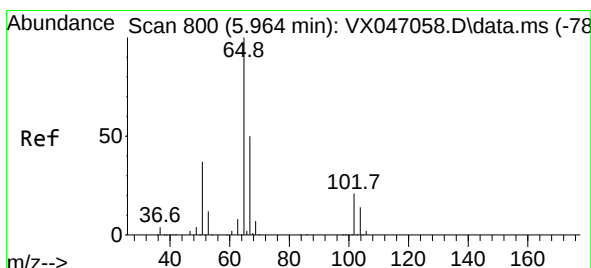
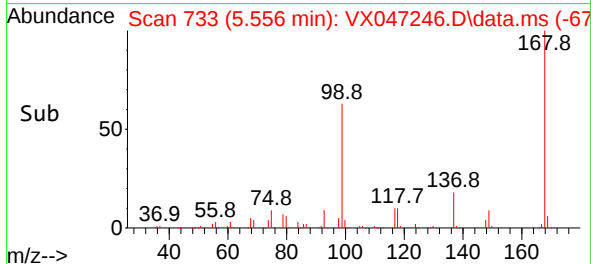
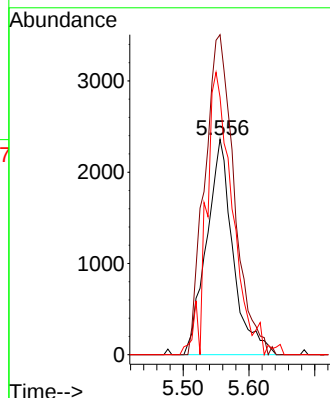
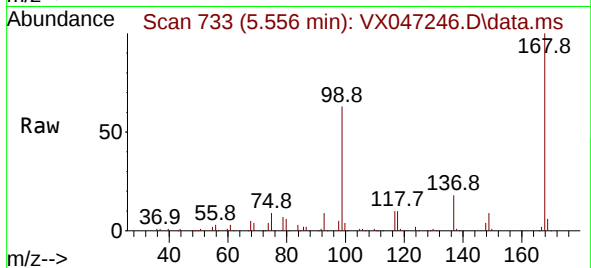




#31
Cyclohexane
Concen: 1.032 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.074 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

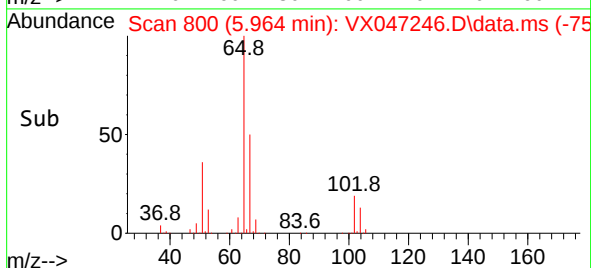
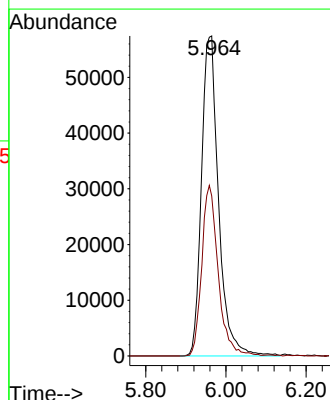
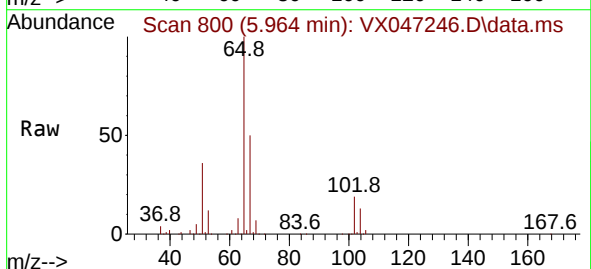
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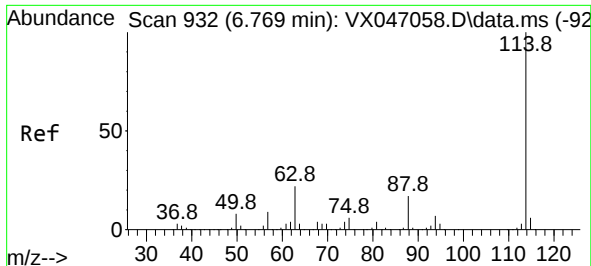
Tgt Ion: 56 Resp: 6588
Ion Ratio Lower Upper
56 100
69 148.6 23.3 34.9#
84 119.6 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 49.674 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion: 65 Resp: 169555
Ion Ratio Lower Upper
65 100
67 51.3 0.0 104.8

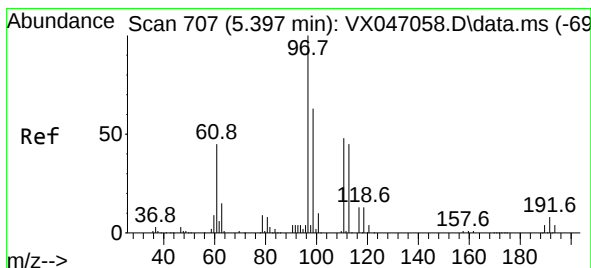
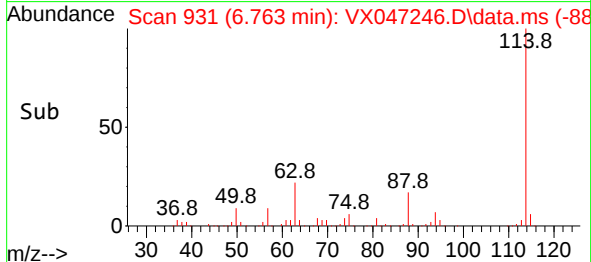
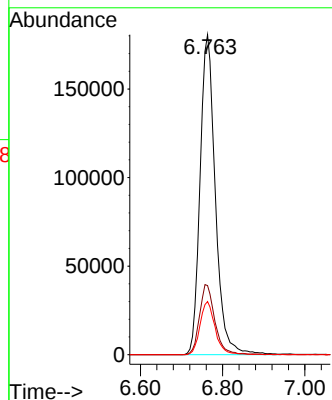
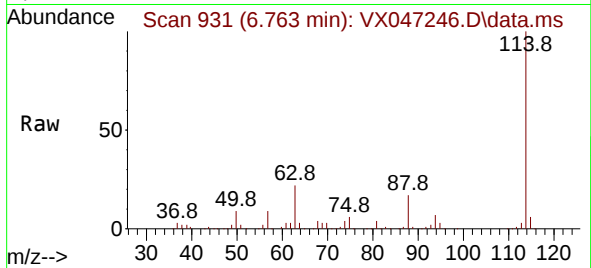




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

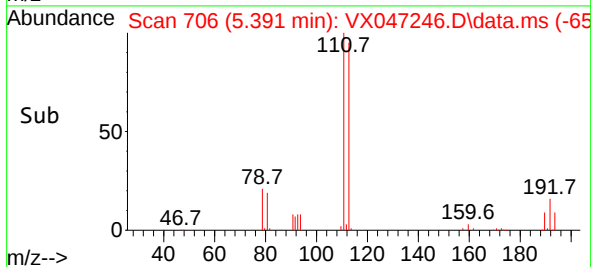
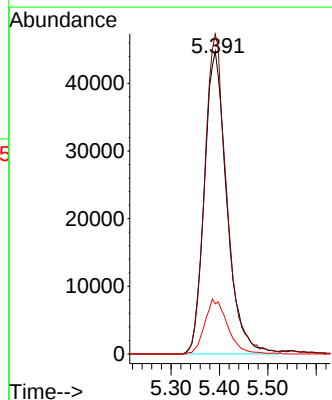
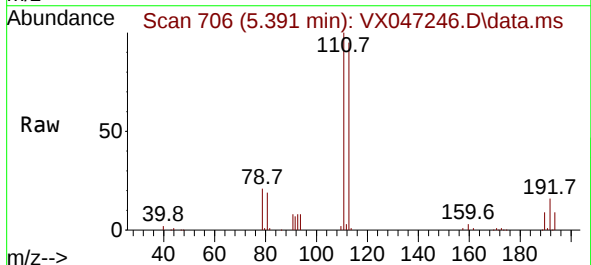
Instrument :
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ClientSampleId :
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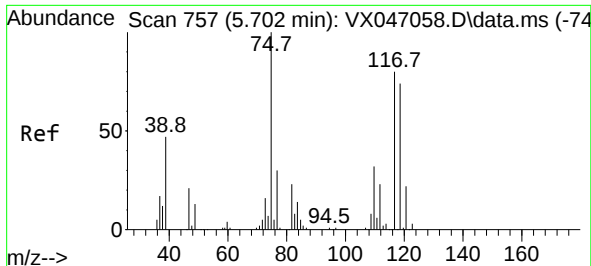
Tgt Ion:114 Resp: 465715
Ion Ratio Lower Upper
114 100
63 21.6 0.0 43.2
88 16.6 0.0 33.8



#35
Dibromofluoromethane
Concen: 50.260 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion:113 Resp: 144521
Ion Ratio Lower Upper
113 100
111 103.3 82.6 124.0
192 18.4 14.9 22.3

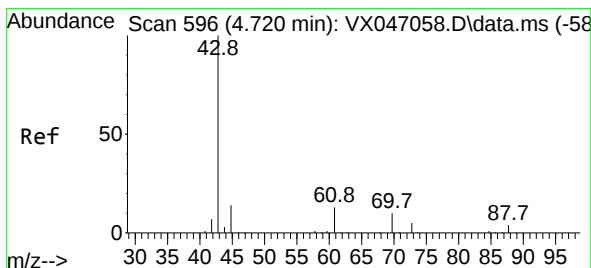
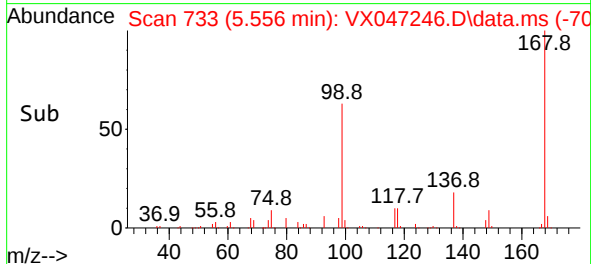
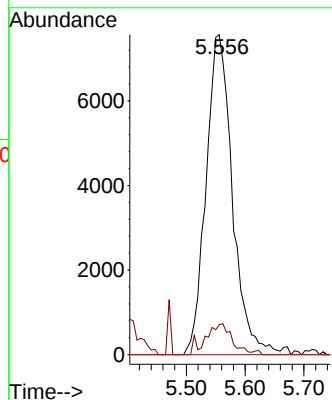
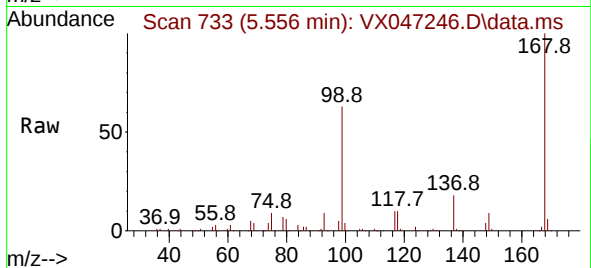




#36
1,1-Dichloropropene
Concen: 4.813 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

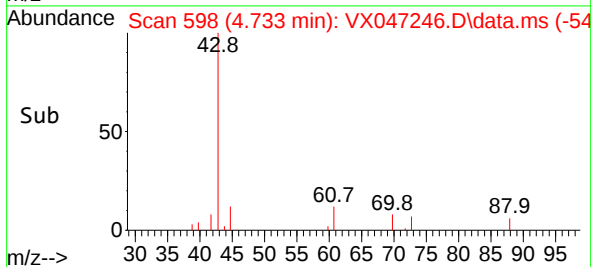
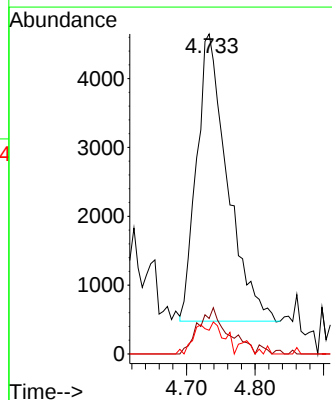
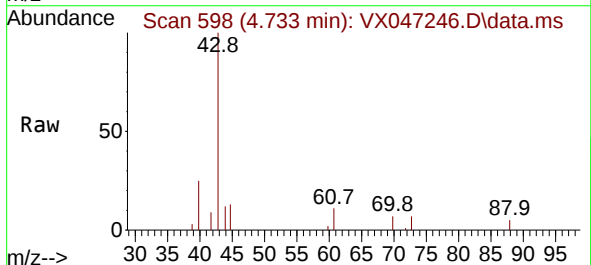
Instrument :
MSVOA_X
ClientSampleId :
TP-3

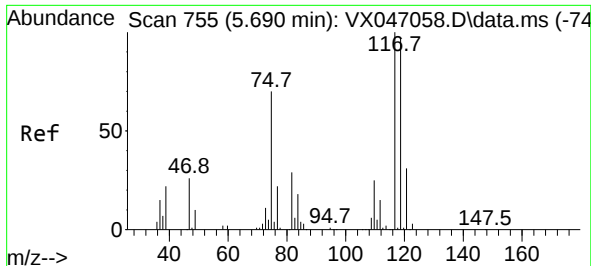
Tgt Ion: 75 Resp: 23593
Ion Ratio Lower Upper
75 100
110 7.7 17.2 51.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 2.883 ug/l
RT: 4.733 min Scan# 598
Delta R.T. 0.013 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

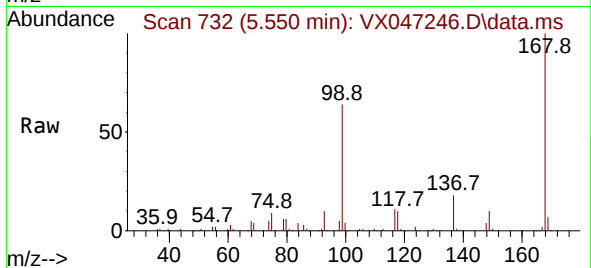
Tgt Ion: 43 Resp: 13020
Ion Ratio Lower Upper
43 100
61 15.4 10.2 15.2#
70 5.4 8.1 12.1#



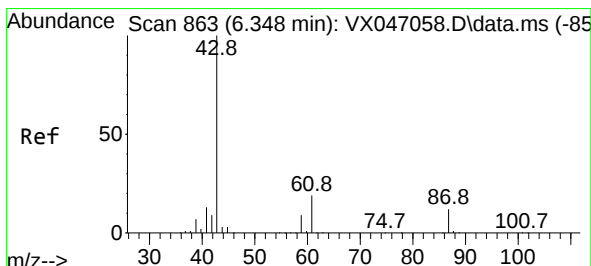
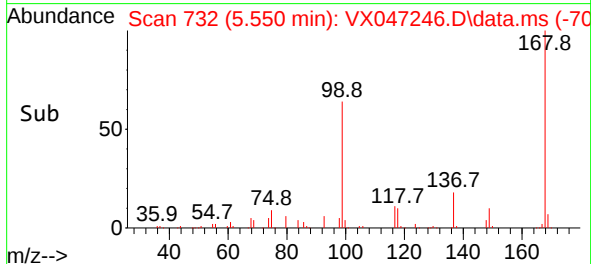
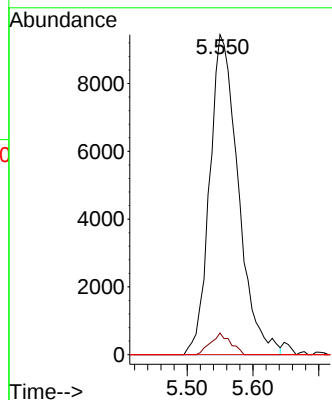


#38
Carbon Tetrachloride
Concen: 5.457 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Instrument :
MSVOA_X
ClientSampleId :
TP-3

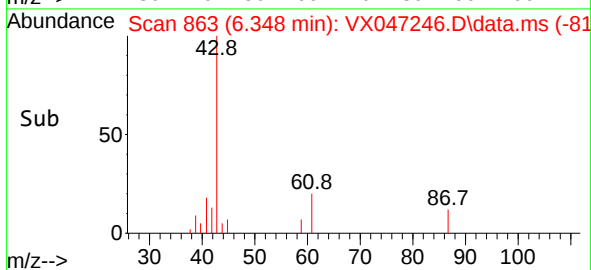
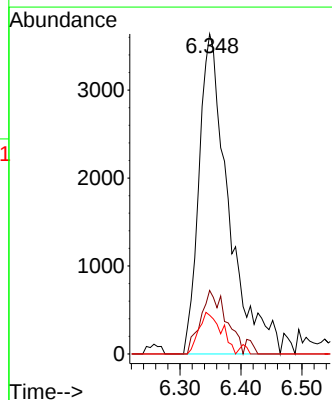
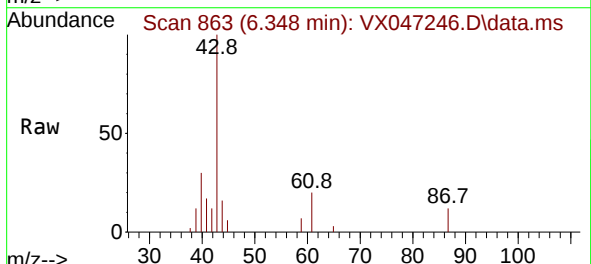


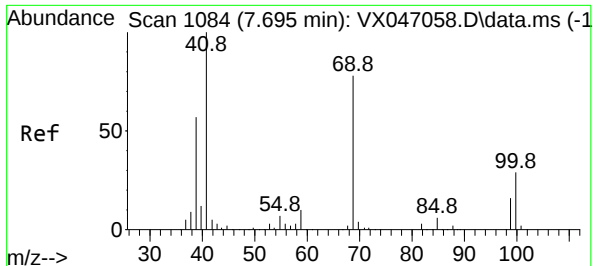
Tgt Ion:117 Resp: 28548
Ion Ratio Lower Upper
117 100
119 6.8 76.6 115.0#
121 0.0 24.4 36.6#



#43
Isopropyl Acetate
Concen: 1.737 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.000 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion: 43 Resp: 12231
Ion Ratio Lower Upper
43 100
61 17.2 15.1 22.7
87 9.8 9.7 14.5





#48

Methyl methacrylate

Concen: 26.526 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.098 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

TP-3

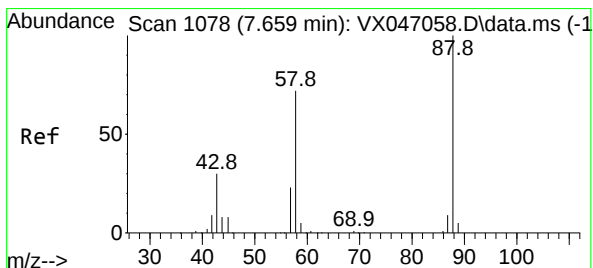
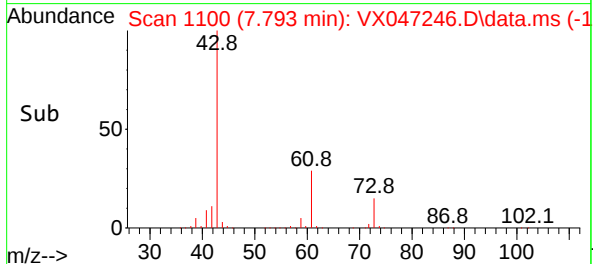
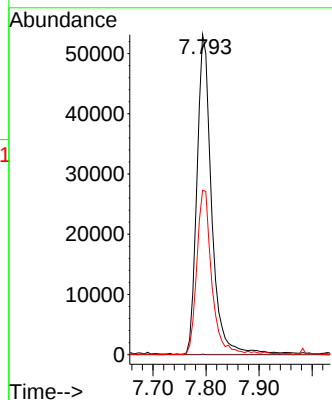
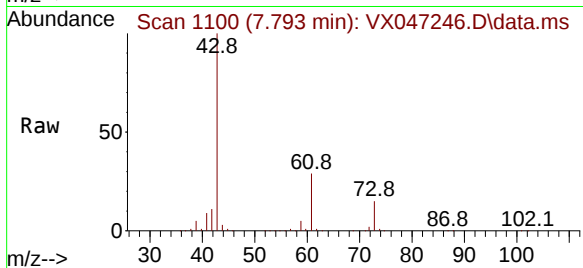
Tgt Ion: 41 Resp: 101749

Ion Ratio Lower Upper

41 100

69 0.0 62.3 93.5#

39 52.3 44.8 67.2



#49

1,4-Dioxane

Concen: 3.094 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.135 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

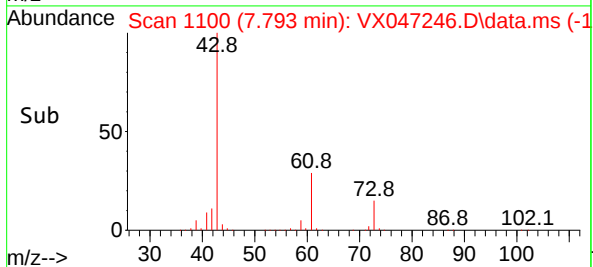
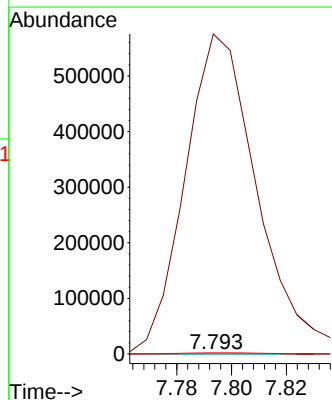
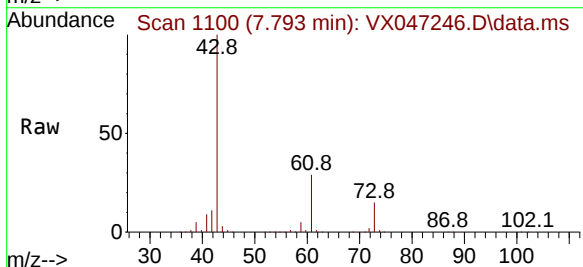
Tgt Ion: 88 Resp: 135

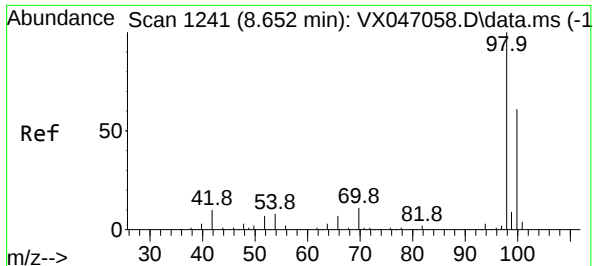
Ion Ratio Lower Upper

88 100

43 806724.4 33.6 50.4#

58 3456.3 58.8 88.2#

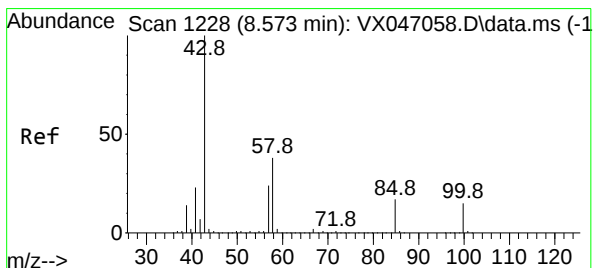
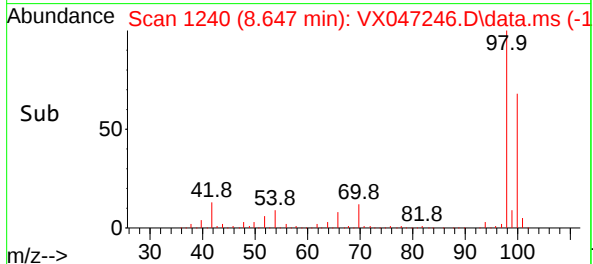
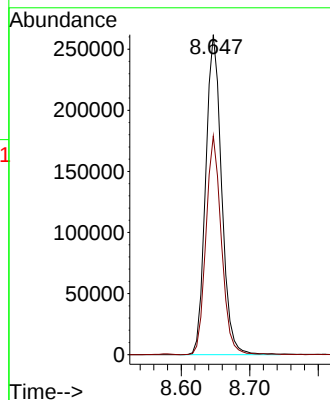
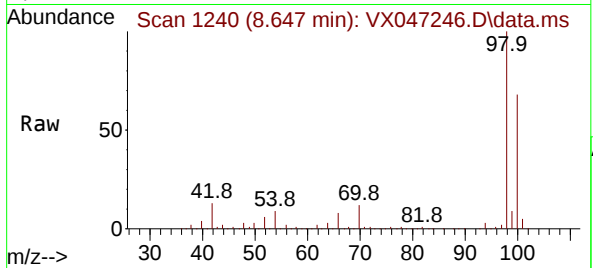




#50
Toluene-d8
Concen: 45.498 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

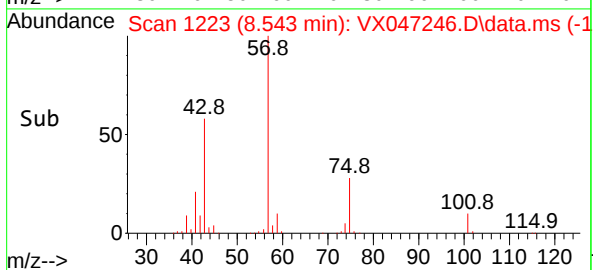
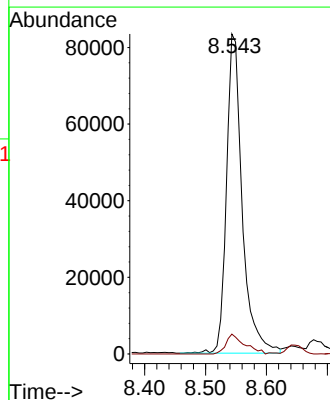
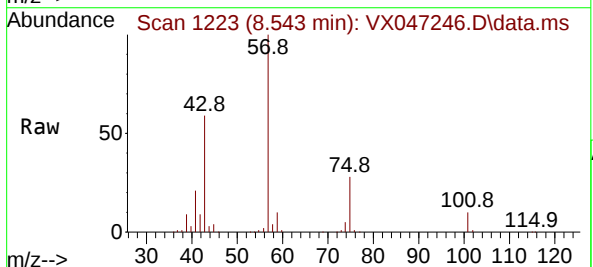
Instrument :
MSVOA_X
ClientSampleId :
TP-3

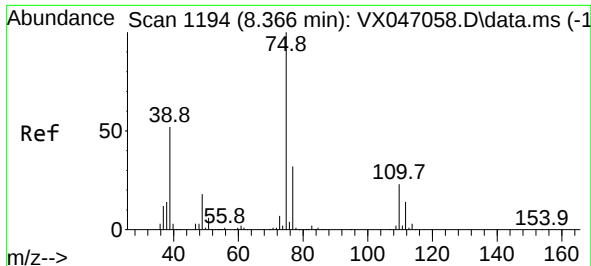
Tgt Ion: 98 Resp: 423681
Ion Ratio Lower Upper
98 100
100 66.5 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 35.574 ug/l
RT: 8.543 min Scan# 1223
Delta R.T. -0.030 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion: 43 Resp: 148884
Ion Ratio Lower Upper
43 100
58 7.5 30.6 45.8#

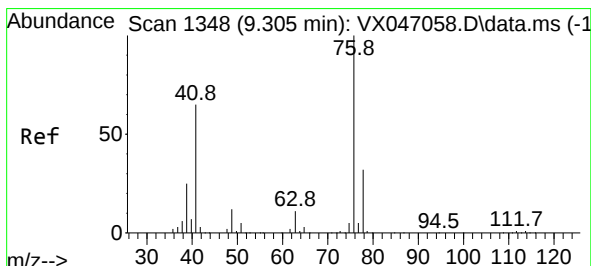
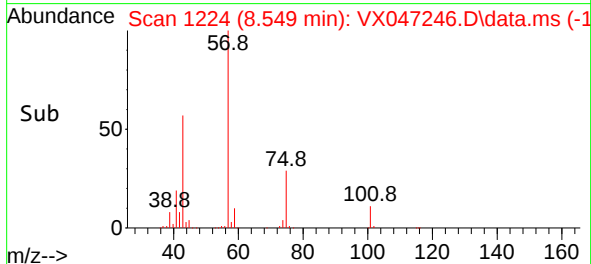
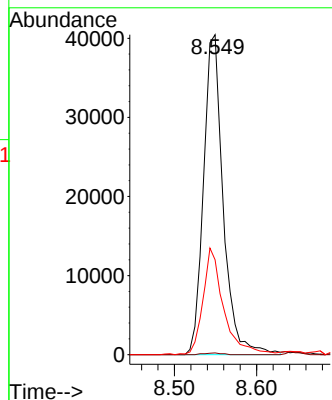
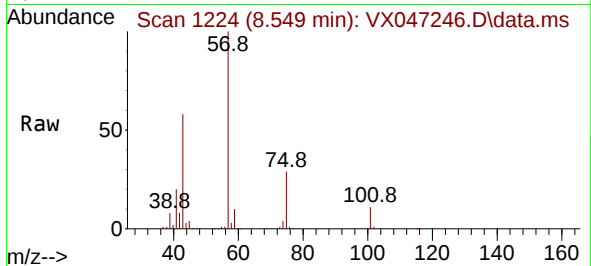




#54
 cis-1,3-Dichloropropene
 Concen: 12.262 ug/l
 RT: 8.549 min Scan# 1194
 Delta R.T. 0.183 min
 Lab File: VX047246.D
 Acq: 06 Aug 2025 14:51

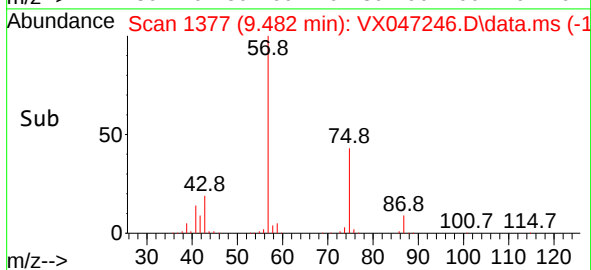
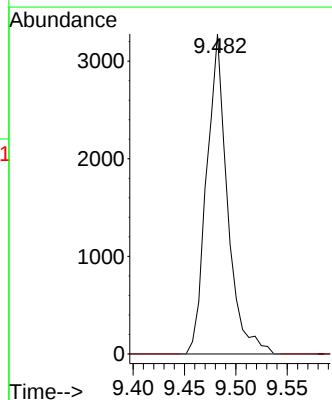
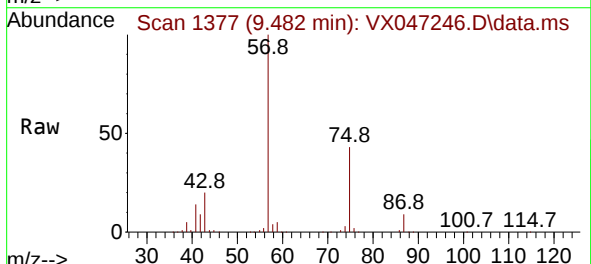
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

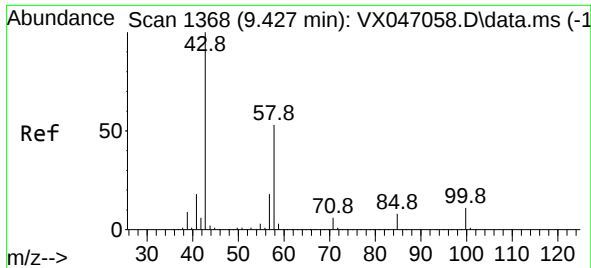
Tgt Ion: 75 Resp: 67204
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.4 38.0#
 39 29.3 41.8 62.6#



#57
 1,3-Dichloropropane
 Concen: 0.814 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.177 min
 Lab File: VX047246.D
 Acq: 06 Aug 2025 14:51

Tgt Ion: 76 Resp: 4629
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#

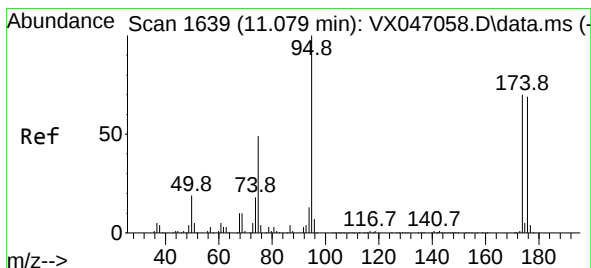
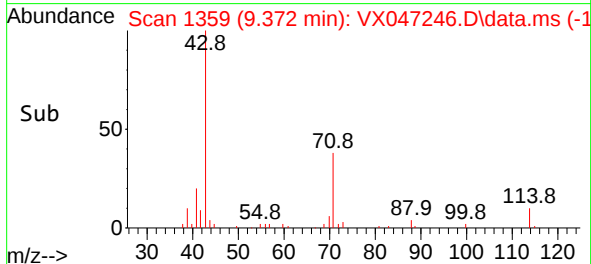
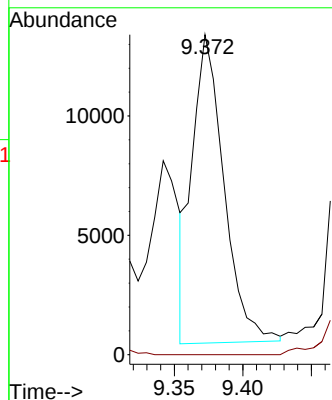
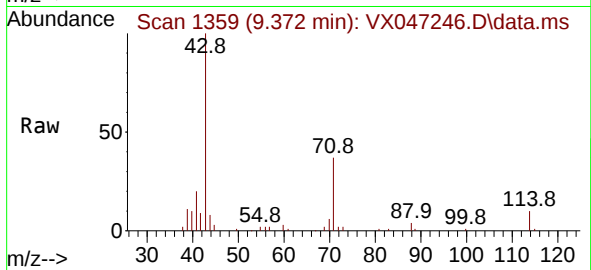




#59
2-Hexanone
Concen: 7.471 ug/l
RT: 9.372 min Scan# 11
Delta R.T. -0.054 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

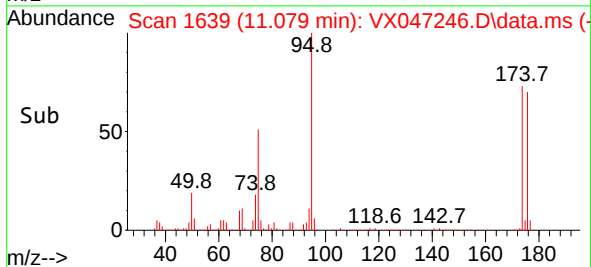
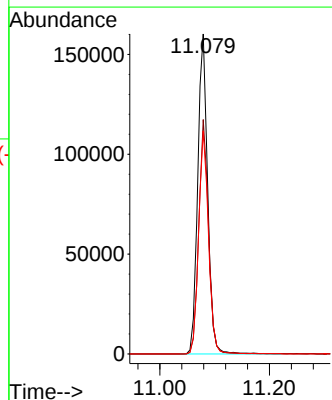
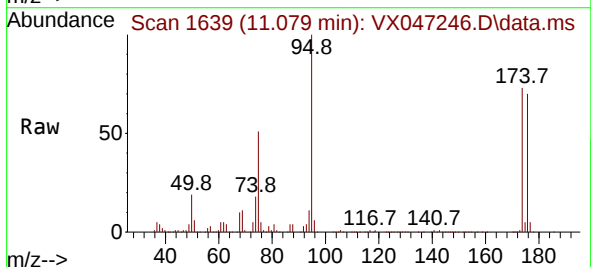
Instrument :
MSVOA_X
ClientSampleId :
TP-3

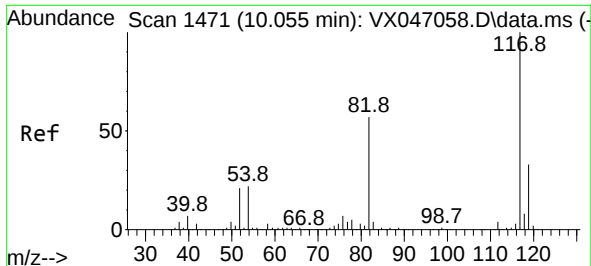
Tgt Ion: 43 Resp: 20659
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 50.441 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion: 95 Resp: 202423
Ion Ratio Lower Upper
95 100
174 72.1 0.0 144.6
176 69.5 0.0 139.6

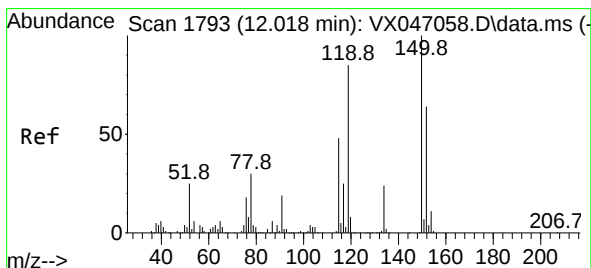
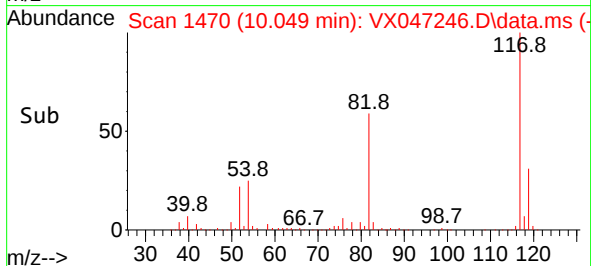
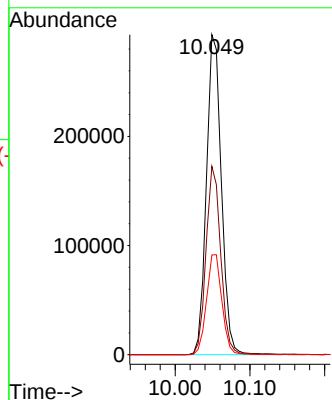
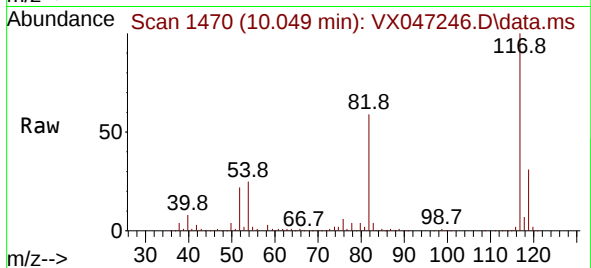




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

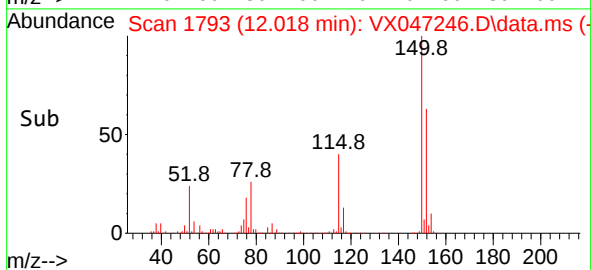
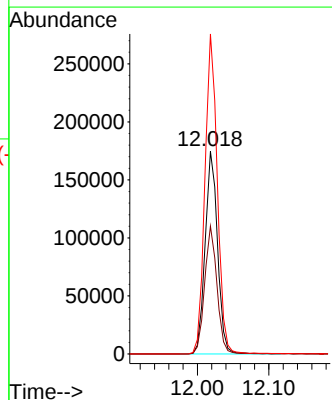
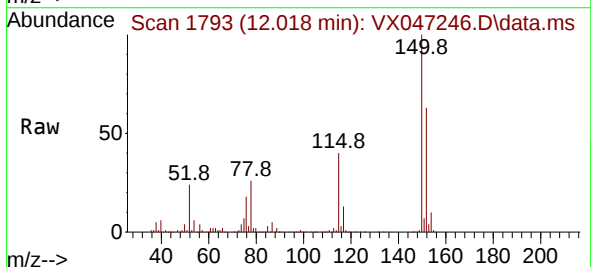
Instrument :
MSVOA_X
ClientSampleId :
TP-3

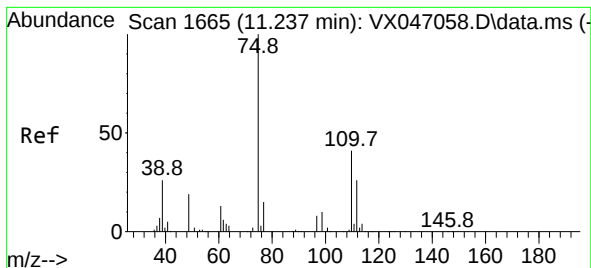
Tgt Ion:117 Resp: 407634
Ion Ratio Lower Upper
117 100
82 58.9 45.4 68.2
119 31.1 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047246.D
Acq: 06 Aug 2025 14:51

Tgt Ion:152 Resp: 211138
Ion Ratio Lower Upper
152 100
115 62.6 45.6 136.7
150 158.0 0.0 354.6





#76

1,2,3-Trichloropropane

Concen: 27.056 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

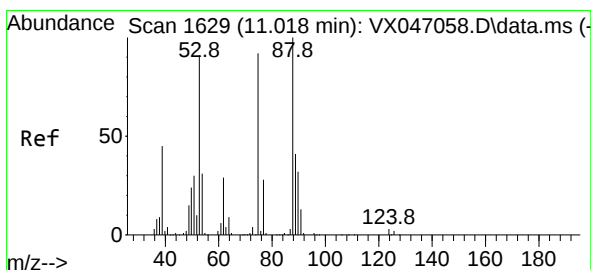
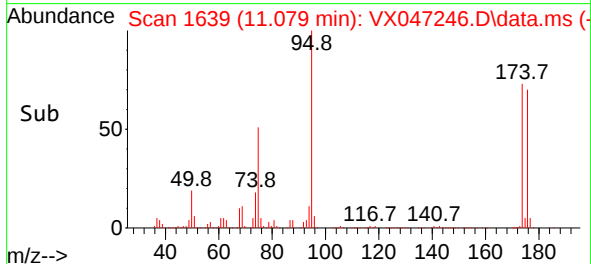
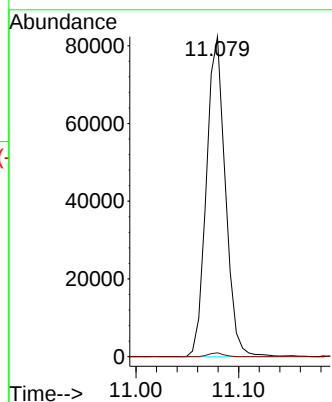
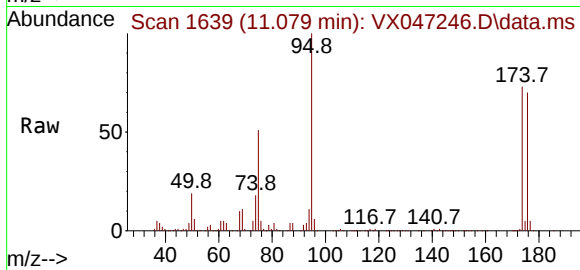
TP-3

Tgt Ion: 75 Resp: 105736

Ion Ratio Lower Upper

75 100

77 1.0 21.6 65.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.707 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

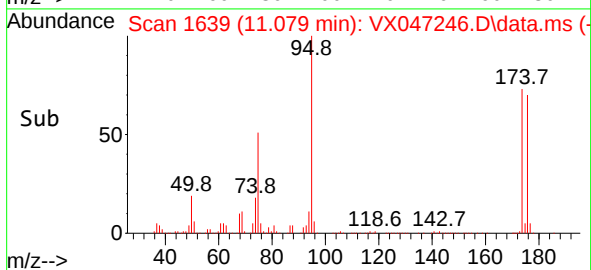
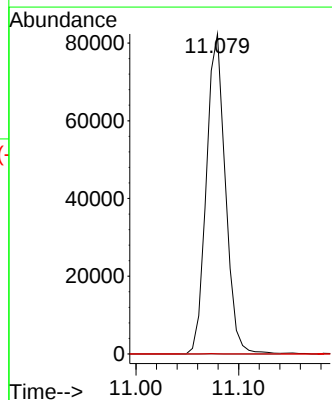
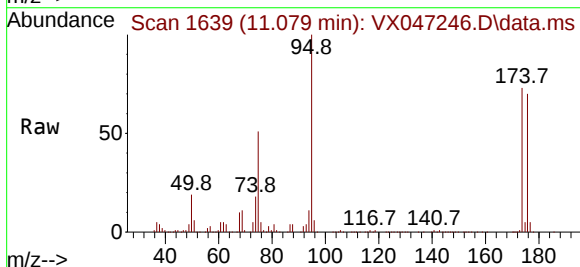
Tgt Ion: 75 Resp: 105736

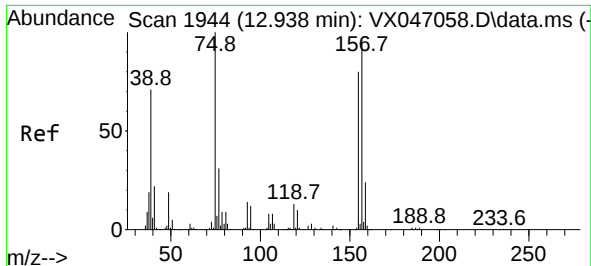
Ion Ratio Lower Upper

75 100

53 0.1 84.2 126.4#

89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.217 ug/l

RT: 12.756 min Scan# 1914

Delta R.T. -0.182 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

Instrument :

MSVOA_X

ClientSampleId :

TP-3

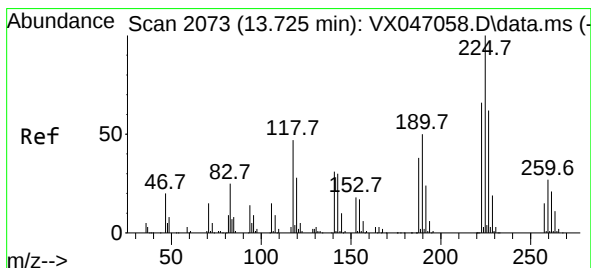
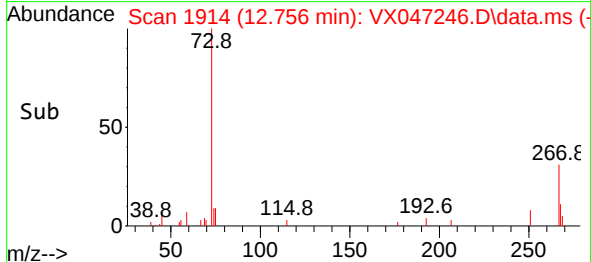
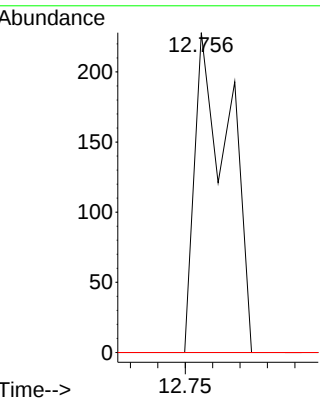
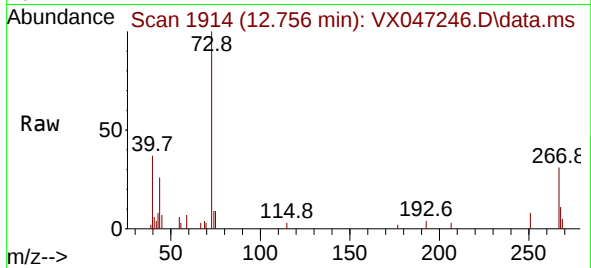
Tgt Ion: 75 Resp: 198

Ion Ratio Lower Upper

75 100

155 0.0 41.3 124.1#

157 0.0 52.8 158.3#



#94

Hexachlorobutadiene

Concen: 0.277 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX047246.D

Acq: 06 Aug 2025 14:51

Tgt Ion: 225 Resp: 451

Ion Ratio Lower Upper

225 100

223 55.2 31.6 95.0

227 51.0 32.9 98.6

