

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080825\
 Data File : VX047270.D
 Acq On : 08 Aug 2025 14:48
 Operator : JC/MD
 Sample : Q2779-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-5

Quant Time: Aug 11 02:01:27 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)

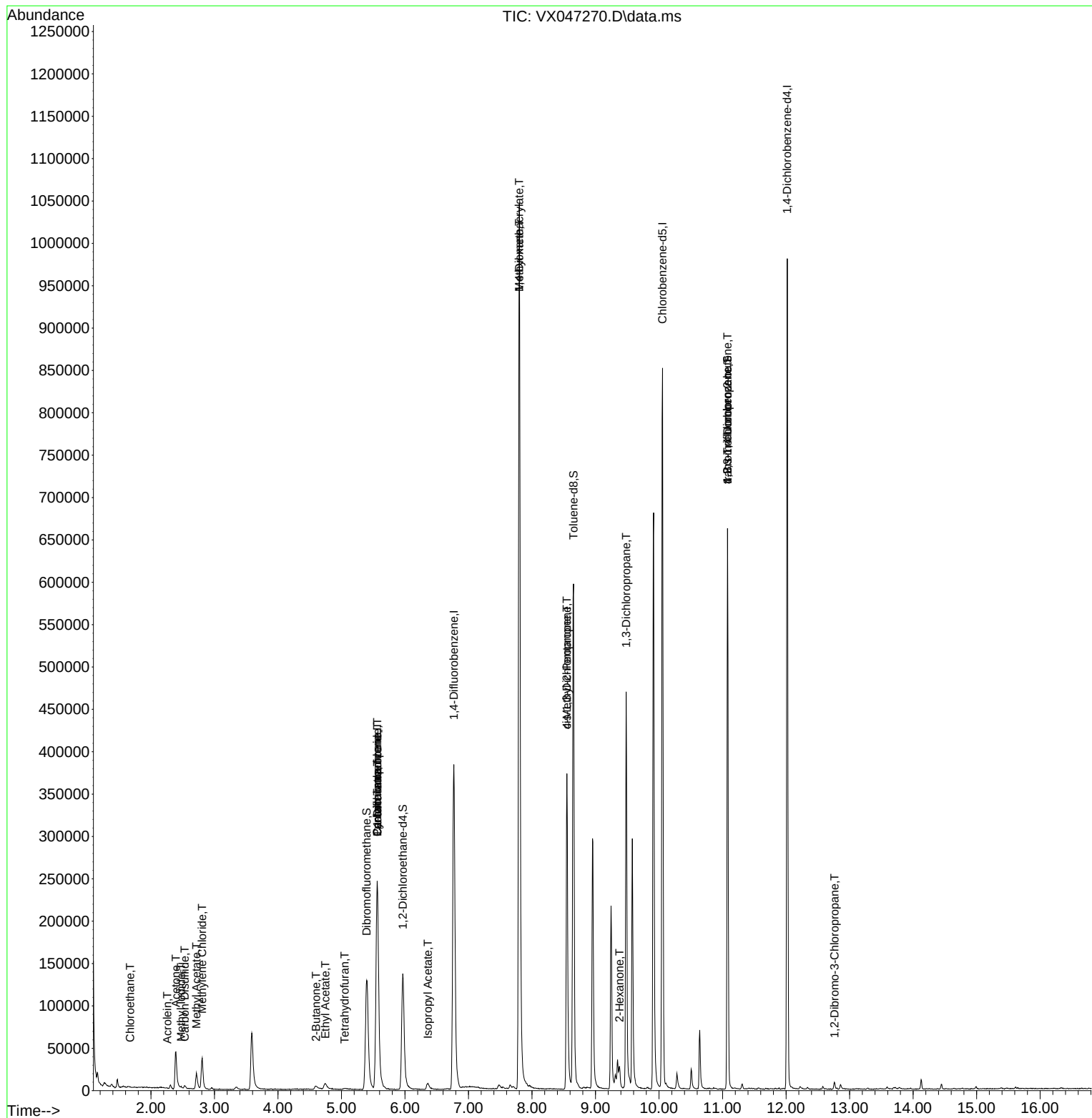
Internal Standards						
1) Pentafluorobenzene	5.562	168	244152	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	416825	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	376801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	192624	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	147115	48.371	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.740%
35) Dibromofluoromethane	5.397	113	127243	49.441	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.880%
50) Toluene-d8	8.653	98	364204	43.698	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	87.400%#
62) 4-Bromofluorobenzene	11.079	95	175695	48.916	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.840%
Target Compounds						
					Qvalue	
6) Chloroethane	1.672	64	574	0.253	ug/l #	43
10) Methyl Iodide	2.477	142	2849	0.902	ug/l #	84
11) Tert butyl alcohol	2.953	59	646	Below Cal	#	72
13) Acrolein	2.258	56	408	0.623	ug/l #	36
16) Acetone	2.392	43	64205	52.697	ug/l	98
17) Carbon Disulfide	2.532	76	3766	0.424	ug/l #	91
18) Methyl Acetate	2.715	43	28096	8.677	ug/l	98
20) Methylene Chloride	2.806	84	18013	5.374	ug/l	94
25) 2-Butanone	4.599	43	9806	5.527	ug/l	94
29) Tetrahydrofuran	5.050	42	899	0.785	ug/l #	56
31) Cyclohexane	5.562	56	5419	0.953	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	19925	4.542	ug/l #	49
37) Ethyl Acetate	4.745	43	14620	3.617	ug/l	96
38) Carbon Tetrachloride	5.562	117	26059	5.565	ug/l #	16
43) Isopropyl Acetate	6.361	43	12216	1.938	ug/l #	91
48) Methyl methacrylate	7.799	41	103591	30.174	ug/l #	44
49) 1,4-Dioxane	7.799	88	37	0.948	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	140101	37.402	ug/l #	50
54) cis-1,3-Dichloropropene	8.549	75	63401	12.925	ug/l #	64
57) 1,3-Dichloropropane	9.482	76	3995	0.785	ug/l #	44
59) 2-Hexanone	9.378	43	17684	7.146	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	90607	25.413	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	90607	65.474	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.762	75	212	0.254	ug/l #	2

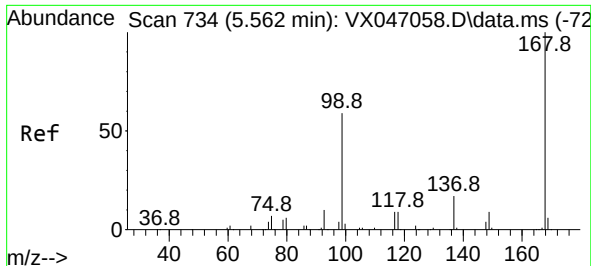
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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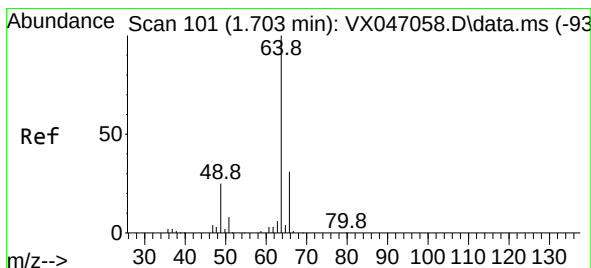
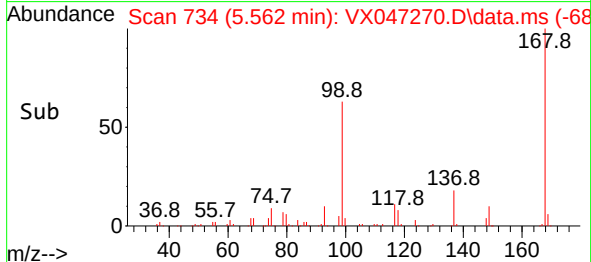
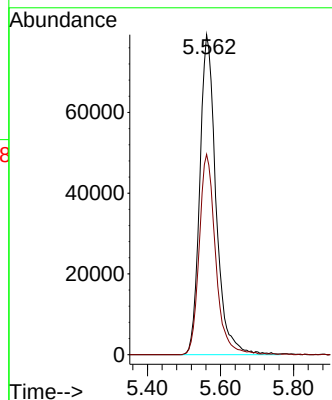
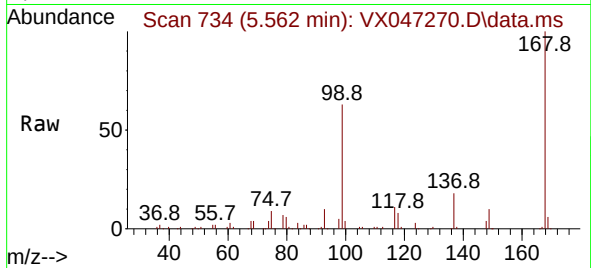




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

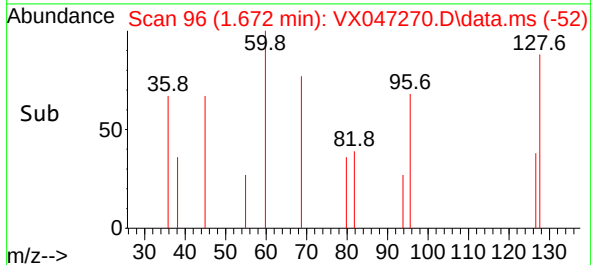
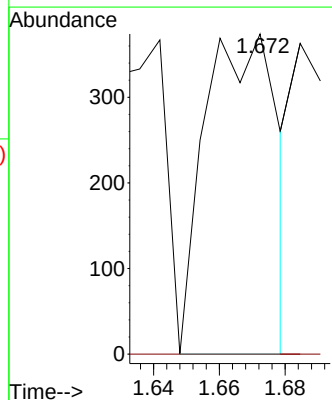
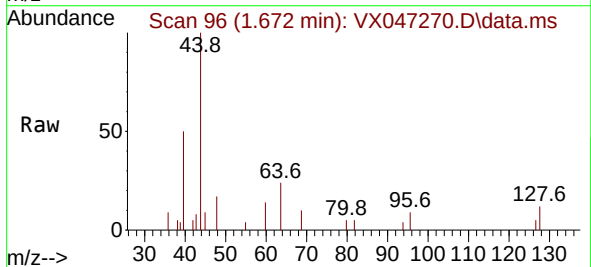
Instrument :
MSVOA_X
ClientSampleId :
TP-5

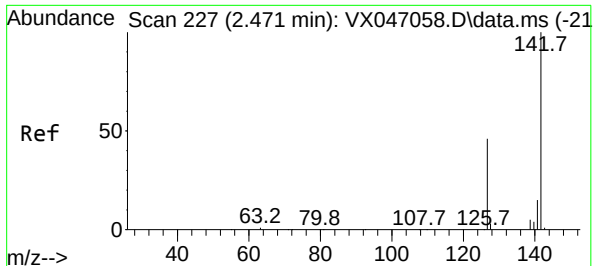
Tgt Ion:168 Resp: 244152
Ion Ratio Lower Upper
168 100
99 62.6 48.0 72.0



#6
Chloroethane
Concen: 0.253 ug/l
RT: 1.672 min Scan# 96
Delta R.T. -0.030 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 64 Resp: 574
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#

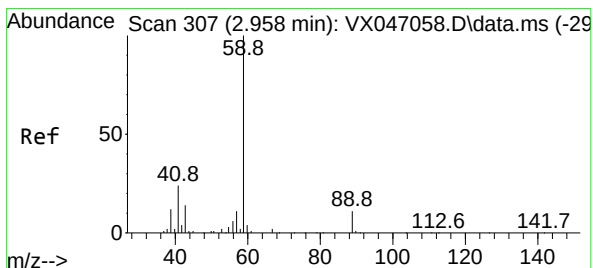
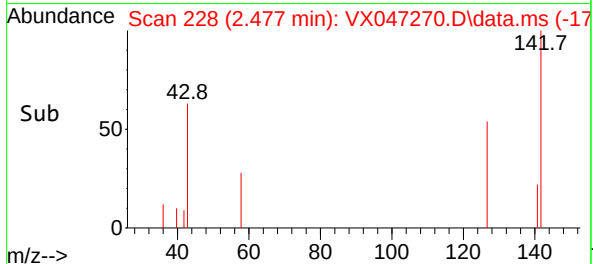
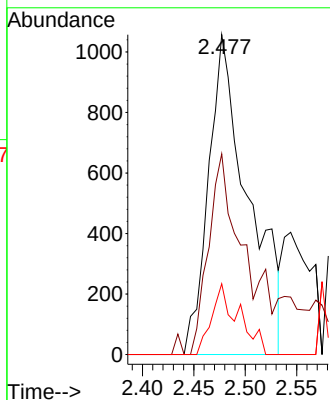
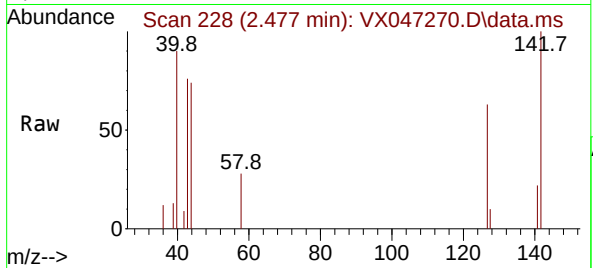




#10
Methyl Iodide
Concen: 0.902 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

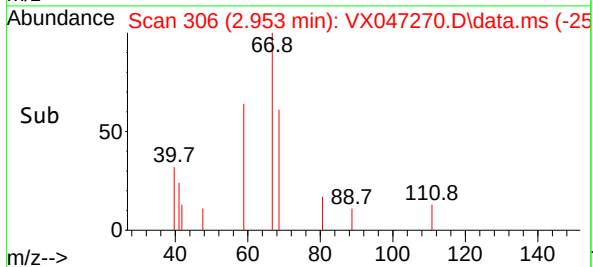
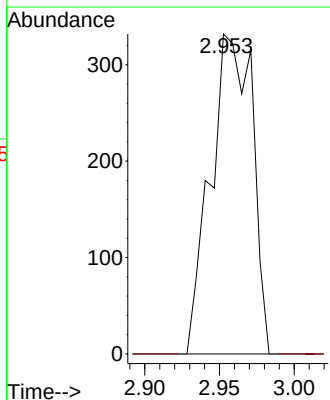
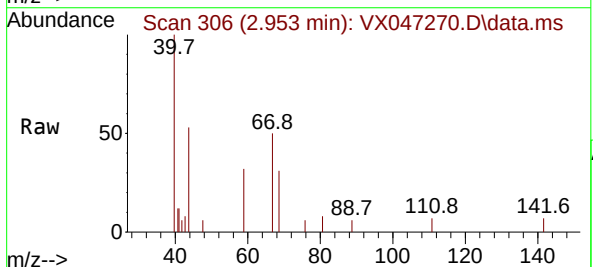
Instrument :
MSVOA_X
ClientSampleId :
TP-5

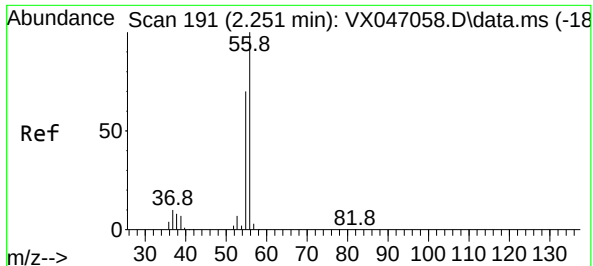
Tgt Ion:142 Resp: 2849
Ion Ratio Lower Upper
142 100
127 58.4 36.6 54.8#
141 15.0 10.9 16.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.953 min Scan# 306
Delta R.T. -0.005 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 59 Resp: 646
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

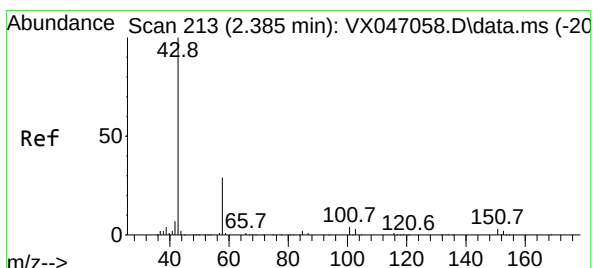
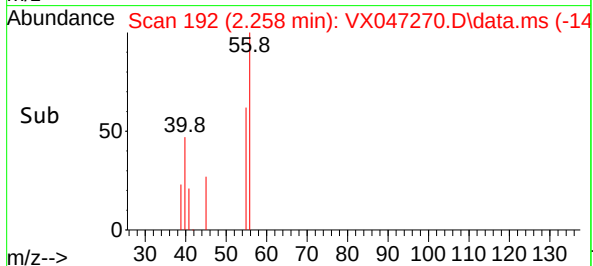
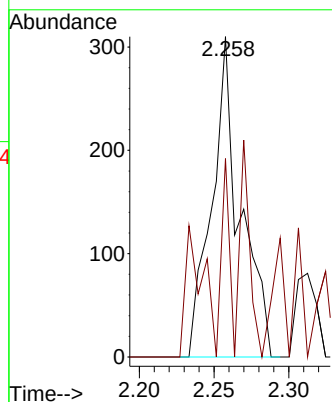
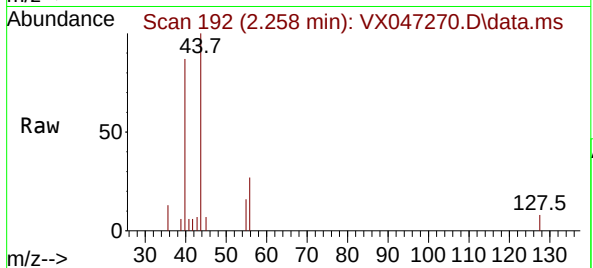




#13
Acrolein
Concen: 0.623 ug/l
RT: 2.258 min Scan# 191
Delta R.T. 0.006 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

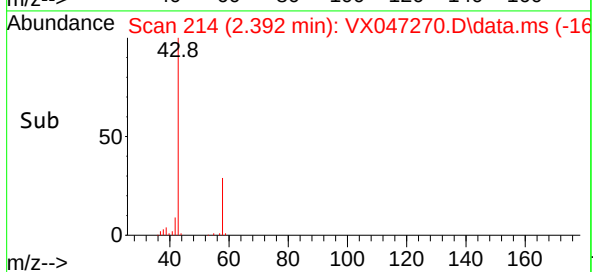
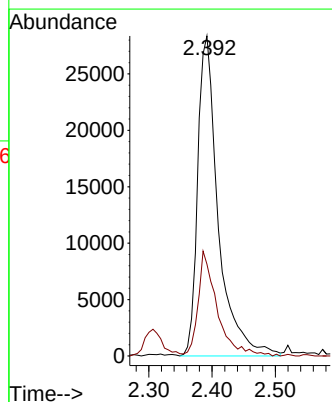
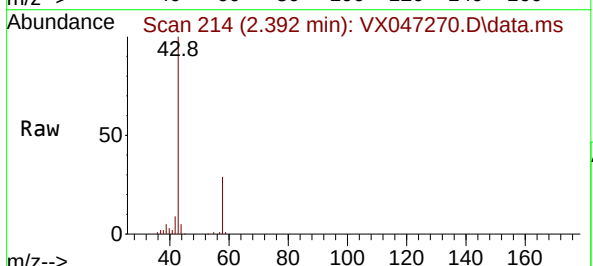
Instrument :
MSVOA_X
ClientSampleId :
TP-5

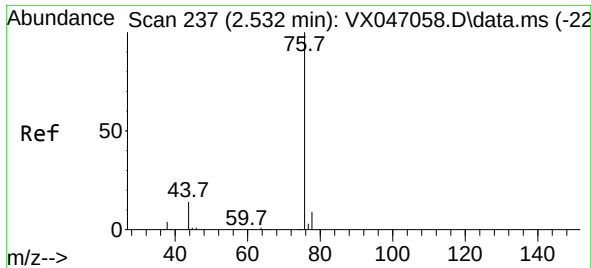
Tgt Ion: 56 Resp: 408
Ion Ratio Lower Upper
56 100
55 17.2 55.7 83.5#



#16
Acetone
Concen: 52.697 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 43 Resp: 64205
Ion Ratio Lower Upper
43 100
58 29.0 24.0 36.0

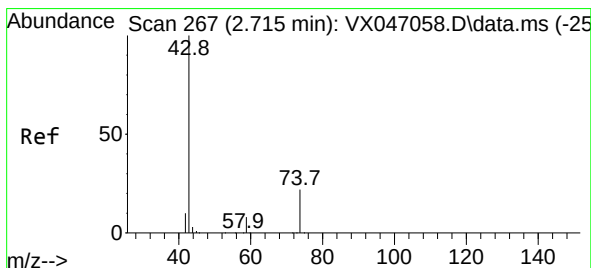
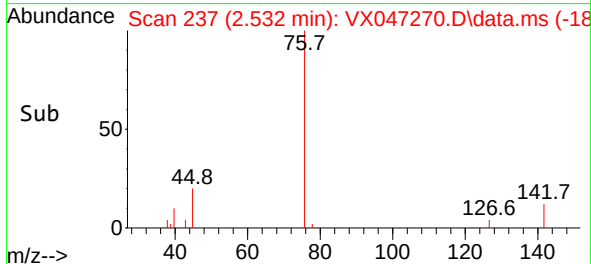
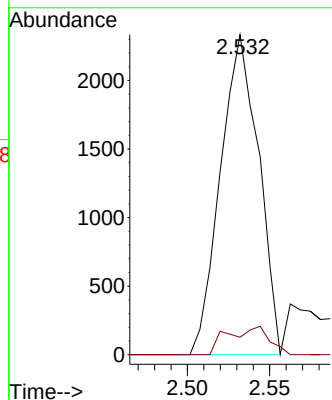
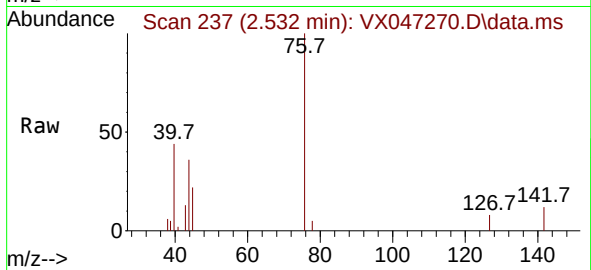




#17
Carbon Disulfide
Concen: 0.424 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

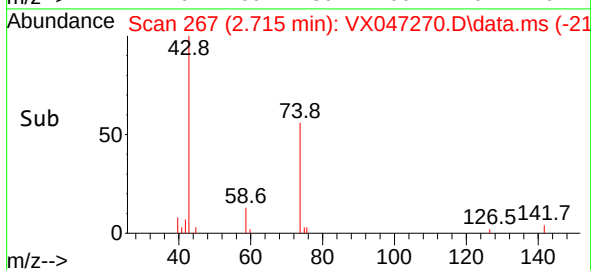
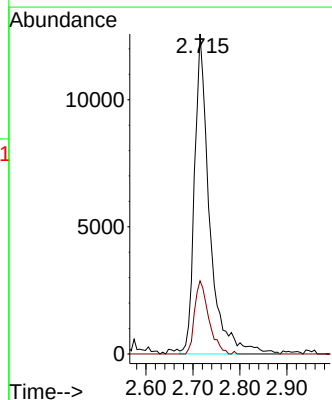
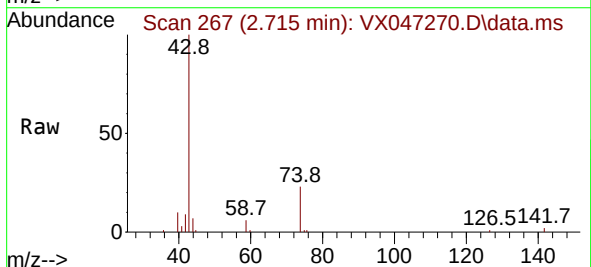
Instrument :
MSVOA_X
ClientSampleId :
TP-5

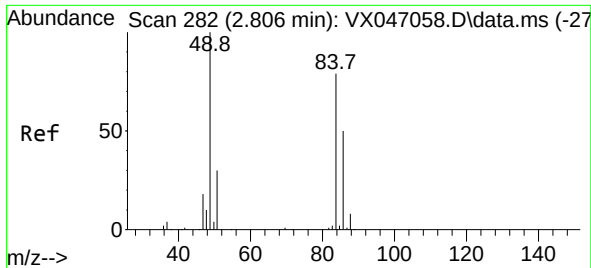
Tgt Ion: 76 Resp: 3766
Ion Ratio Lower Upper
76 100
78 5.4 7.0 10.4#



#18
Methyl Acetate
Concen: 8.677 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 43 Resp: 28096
Ion Ratio Lower Upper
43 100
74 21.3 17.7 26.5

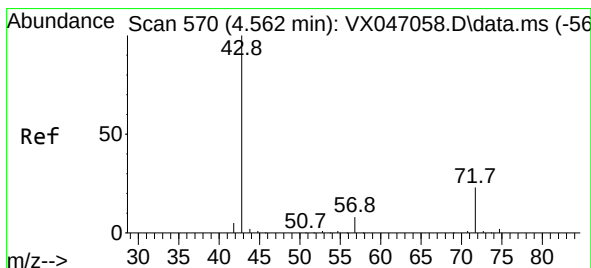
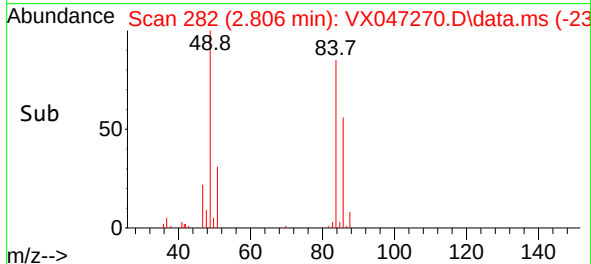
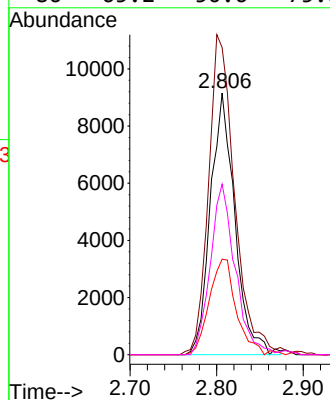
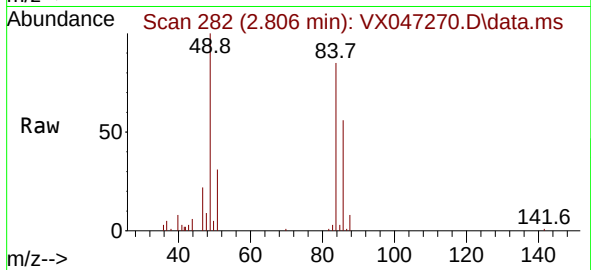




#20
Methylene Chloride
Concen: 5.374 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

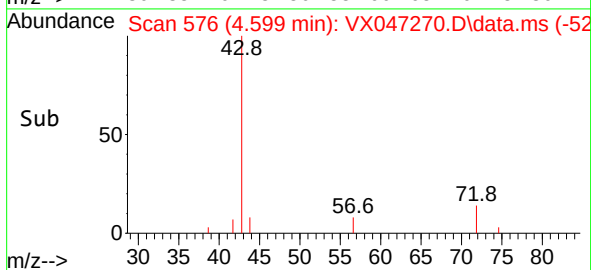
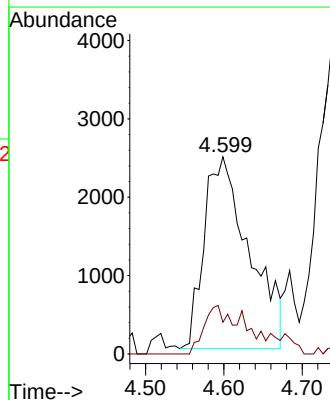
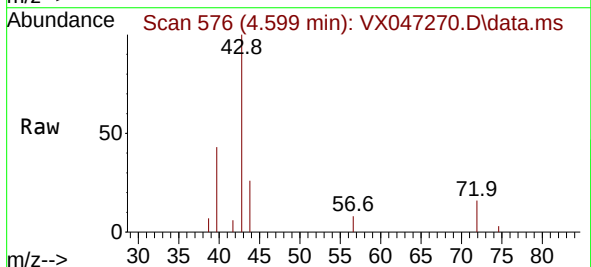
Instrument :
MSVOA_X
ClientSampleId :
TP-5

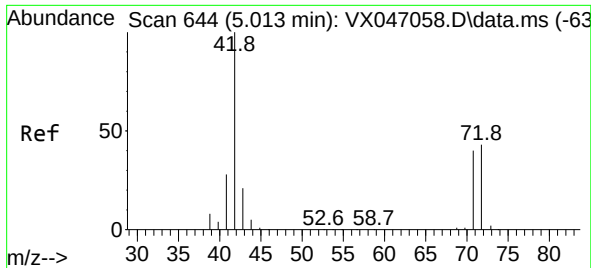
Tgt Ion:	84	Resp:	18013
Ion	Ratio	Lower	Upper
84	100		
49	117.4	101.6	152.4
51	36.5	30.3	45.5
86	65.2	50.6	75.8



#25
2-Butanone
Concen: 5.527 ug/l
RT: 4.599 min Scan# 576
Delta R.T. 0.037 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion:	43	Resp:	9806
Ion	Ratio	Lower	Upper
43	100		
72	20.4	18.8	28.2





#29

Tetrahydrofuran

Concen: 0.785 ug/l

RT: 5.050 min Scan# 61

Delta R.T. 0.037 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

Instrument :

MSVOA_X

ClientSampleId :

TP-5

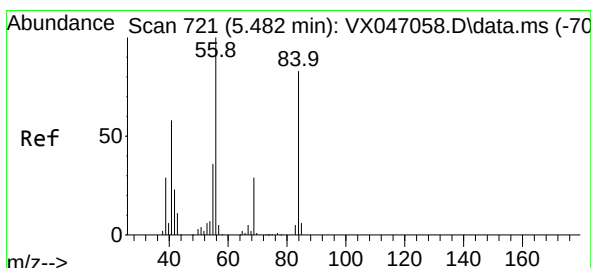
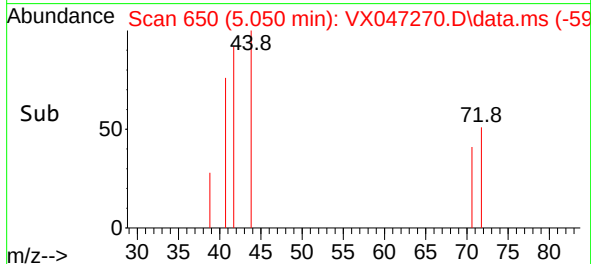
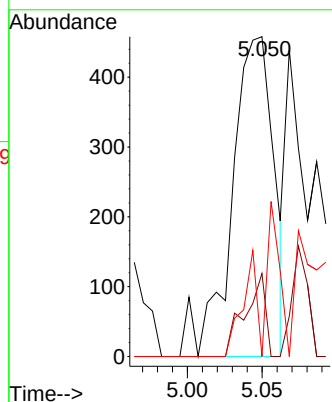
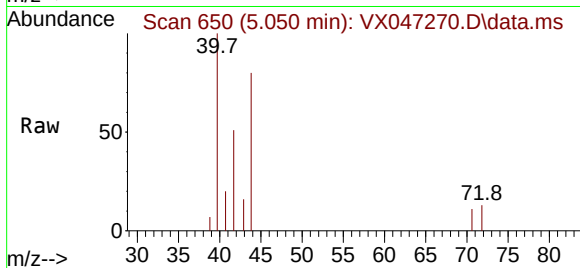
Tgt Ion: 42 Resp: 899

Ion Ratio Lower Upper

42 100

72 12.6 33.7 50.5#

71 14.0 31.0 46.4#



#31

Cyclohexane

Concen: 0.953 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.080 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

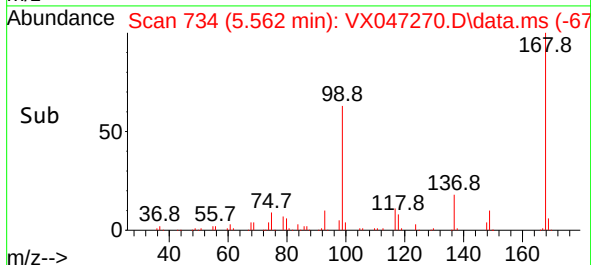
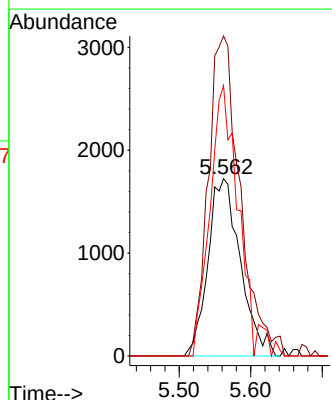
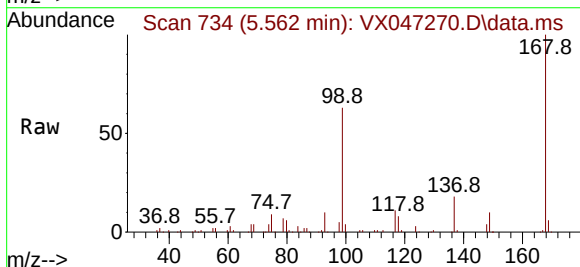
Tgt Ion: 56 Resp: 5419

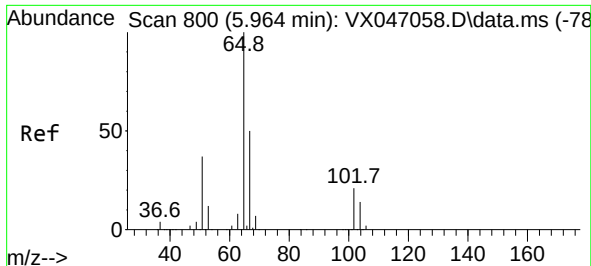
Ion Ratio Lower Upper

56 100

69 180.7 23.3 34.9#

84 152.7 66.5 99.7#





#33

1,2-Dichloroethane-d4

Concen: 48.371 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

Instrument :

MSVOA_X

ClientSampleId :

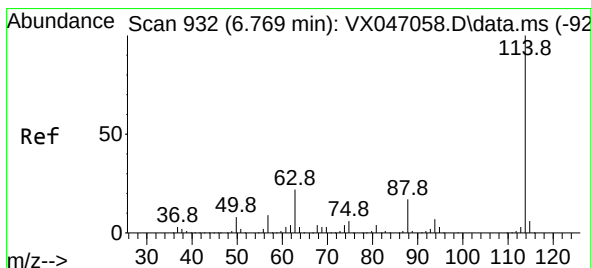
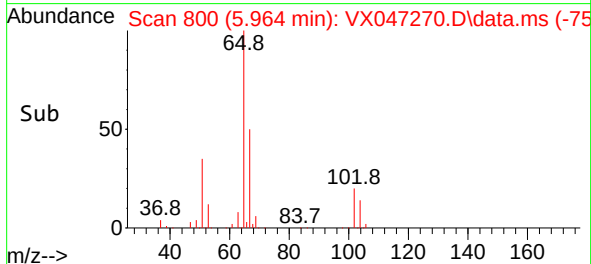
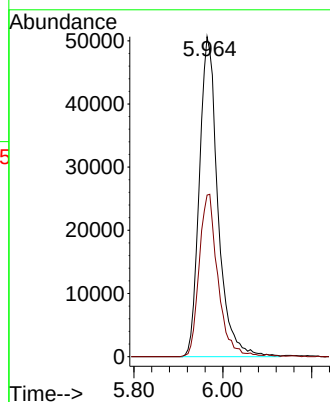
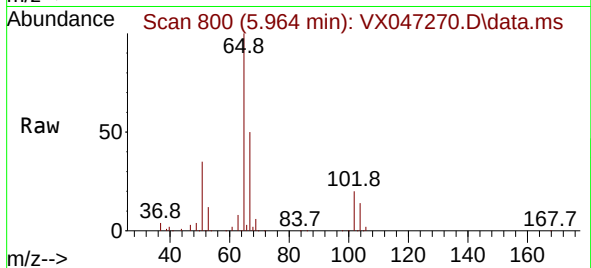
TP-5

Tgt Ion: 65 Resp: 147115

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

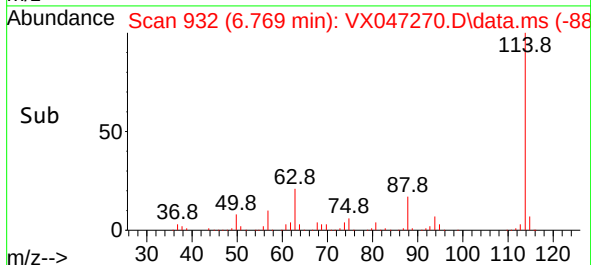
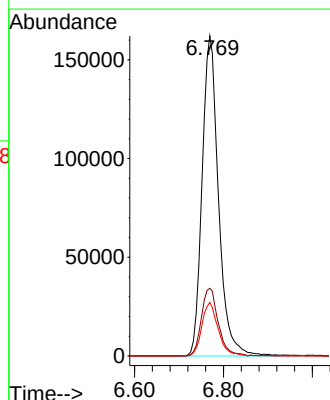
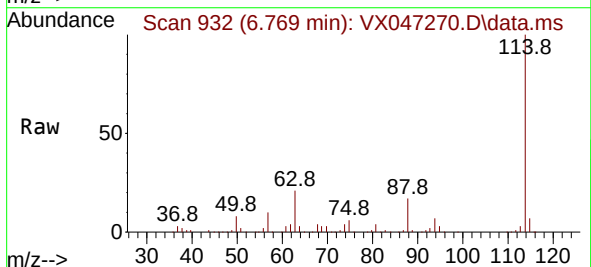
Tgt Ion: 114 Resp: 416825

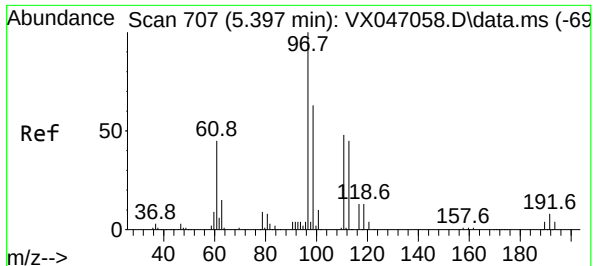
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.2

88 16.7 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.441 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

Instrument :

MSVOA_X

ClientSampleId :

TP-5

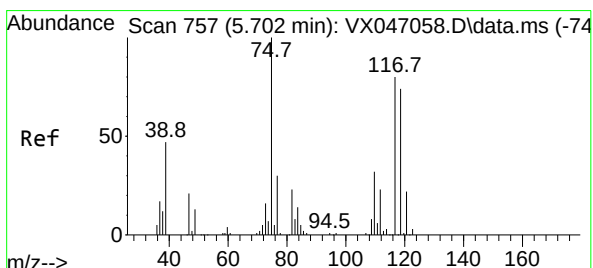
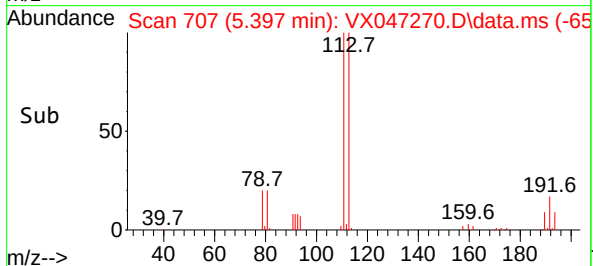
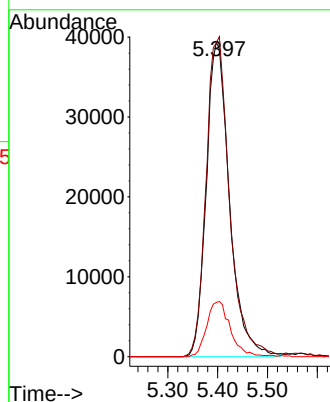
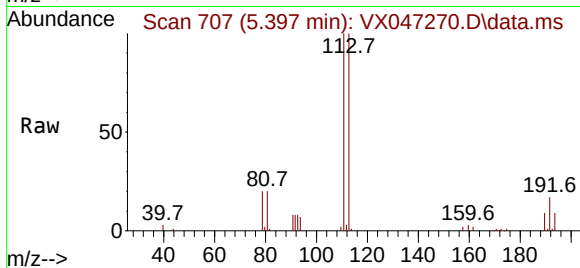
Tgt Ion:113 Resp: 127243

Ion Ratio Lower Upper

113 100

111 103.1 82.6 124.0

192 17.8 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.542 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.140 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

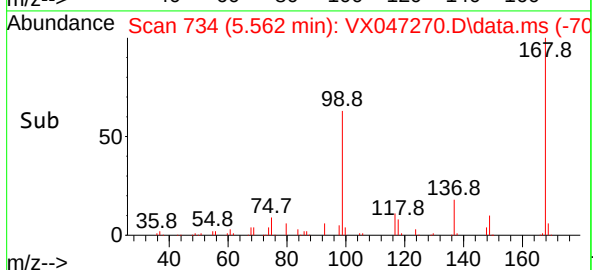
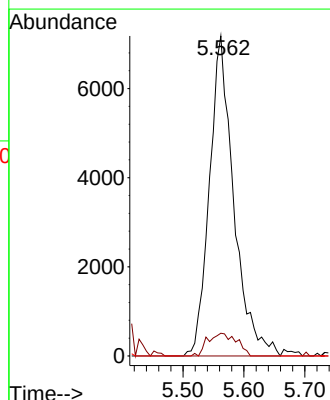
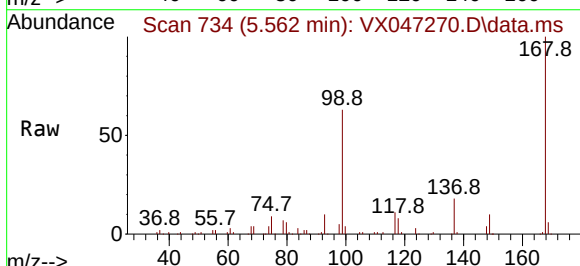
Tgt Ion: 75 Resp: 19925

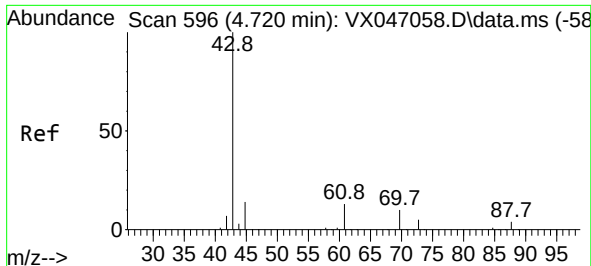
Ion Ratio Lower Upper

75 100

110 8.5 17.2 51.5#

77 0.0 25.1 37.7#

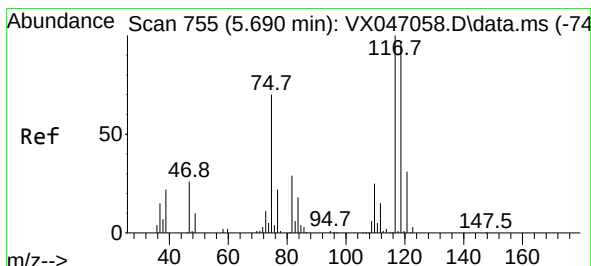
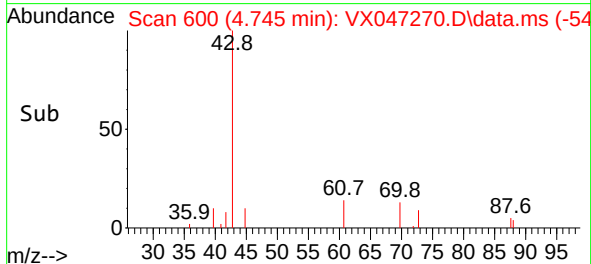
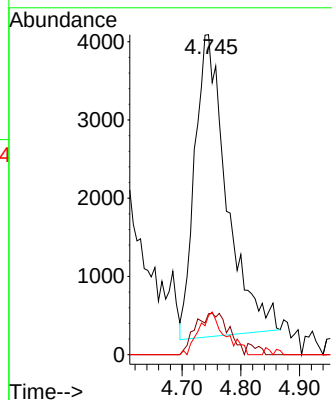
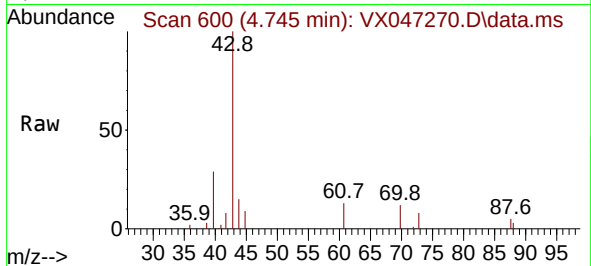




#37
Ethyl Acetate
Concen: 3.617 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.025 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

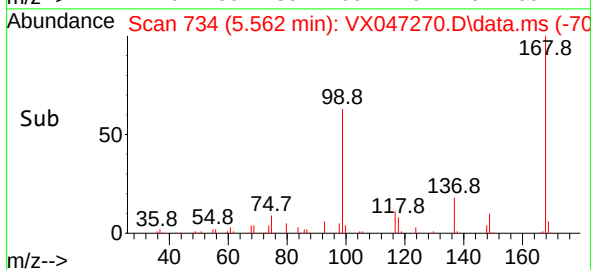
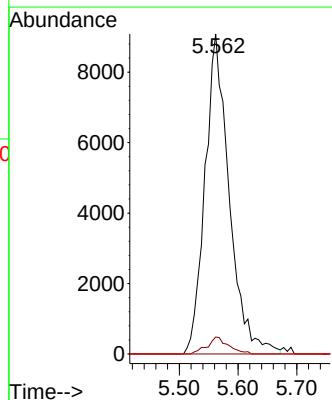
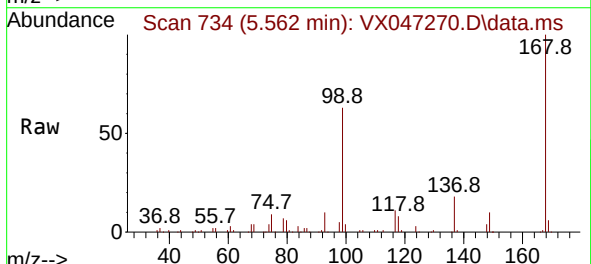
Instrument :
MSVOA_X
ClientSampleId :
TP-5

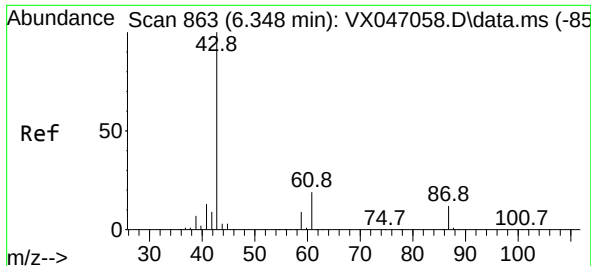
Tgt Ion: 43 Resp: 14620
Ion Ratio Lower Upper
43 100
61 14.2 10.2 15.2
70 11.4 8.1 12.1



#38
Carbon Tetrachloride
Concen: 5.565 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.128 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 117 Resp: 26059
Ion Ratio Lower Upper
117 100
119 5.3 76.6 115.0#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 1.938 ug/l

RT: 6.361 min Scan# 8

Delta R.T. 0.013 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

Instrument :

MSVOA_X

ClientSampleId :

TP-5

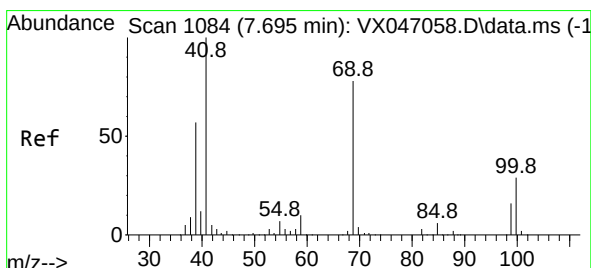
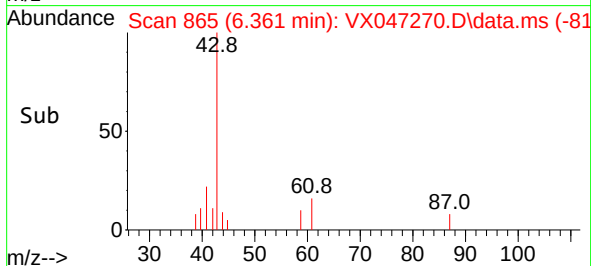
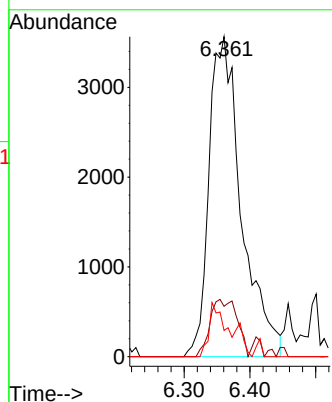
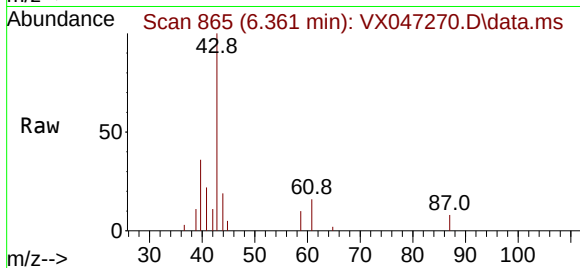
Tgt Ion: 43 Resp: 12216

Ion Ratio Lower Upper

43 100

61 15.0 15.1 22.7#

87 8.1 9.7 14.5#



#48

Methyl methacrylate

Concen: 30.174 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

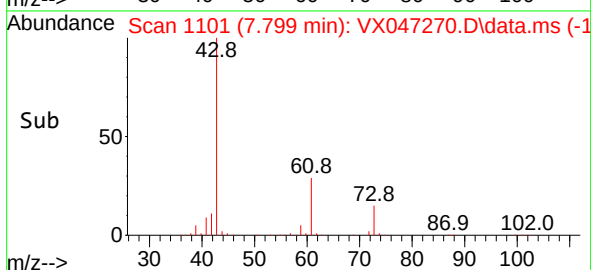
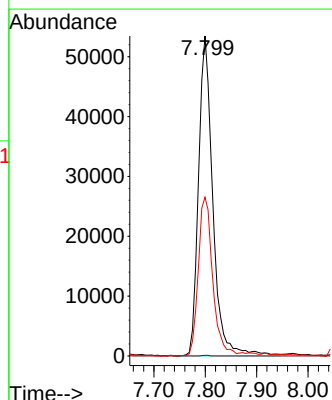
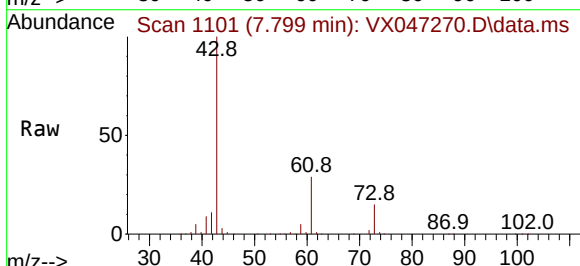
Tgt Ion: 41 Resp: 103591

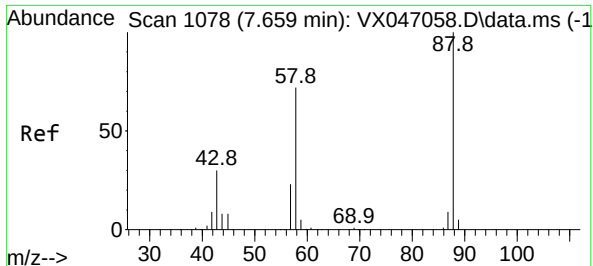
Ion Ratio Lower Upper

41 100

69 0.1 62.3 93.5#

39 49.8 44.8 67.2





#49

1,4-Dioxane

Concen: 0.948 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.141 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

Instrument :

MSVOA_X

ClientSampleId :

TP-5

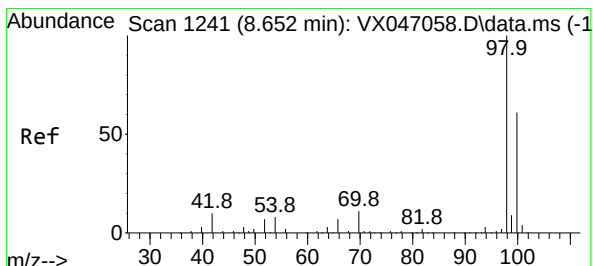
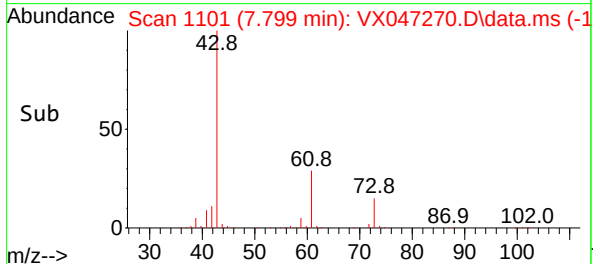
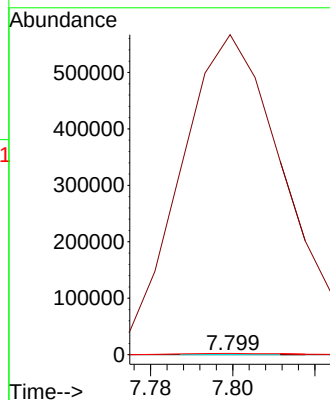
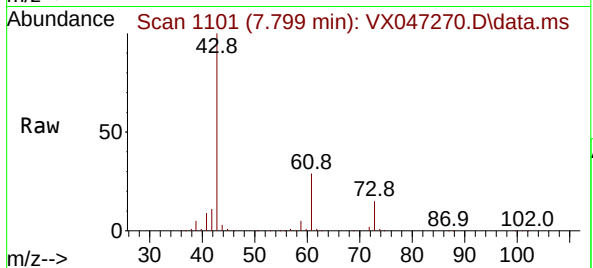
Tgt Ion: 88 Resp: 37

Ion Ratio Lower Upper

88 100

43 2922486.5 33.6 50.4#

58 11827.0 58.8 88.2#



#50

Toluene-d8

Concen: 43.698 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047270.D

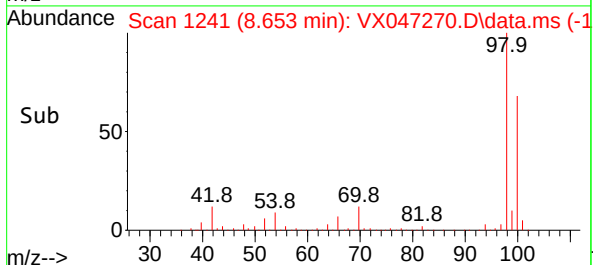
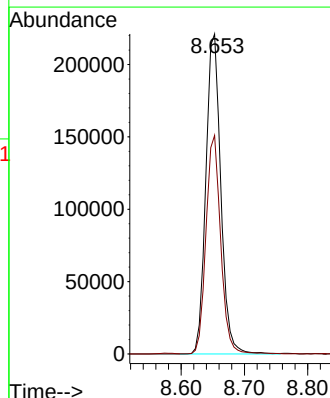
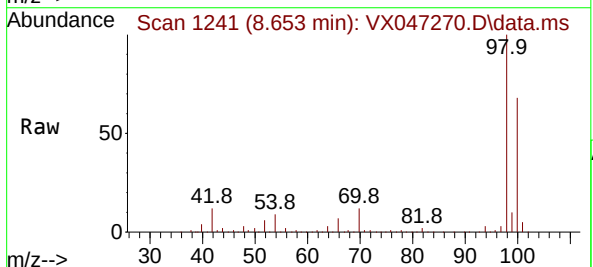
Acq: 08 Aug 2025 14:48

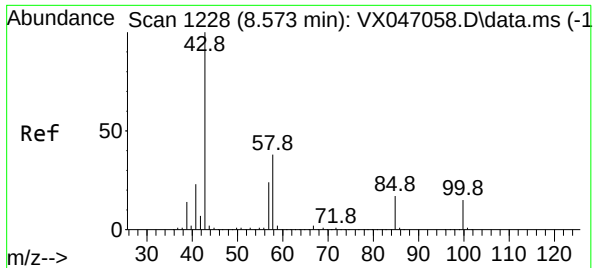
Tgt Ion: 98 Resp: 364204

Ion Ratio Lower Upper

98 100

100 66.9 53.3 79.9

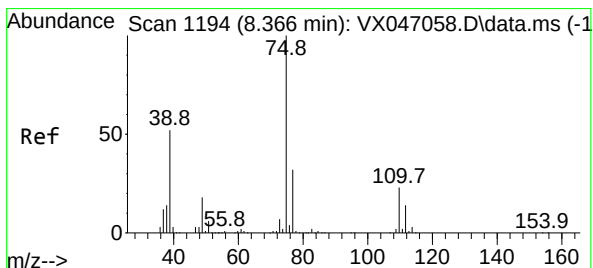
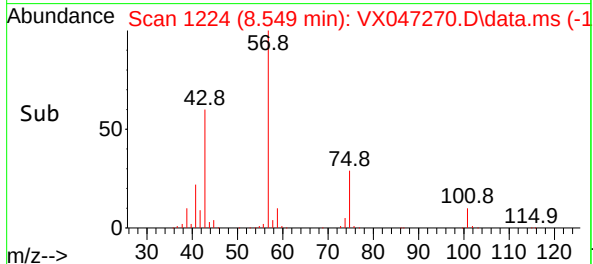
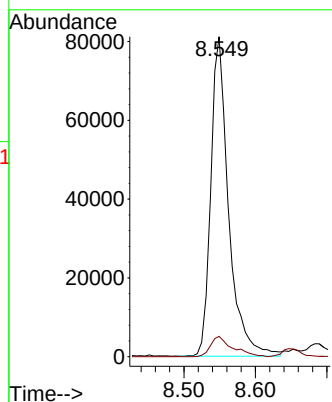
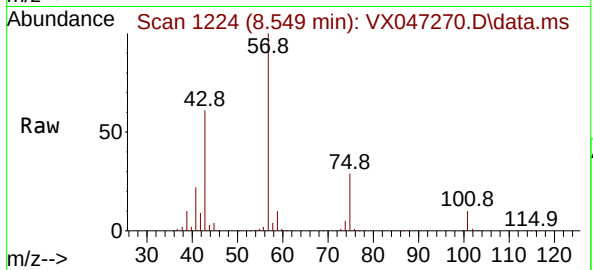




#51
4-Methyl-2-Pentanone
Concen: 37.402 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

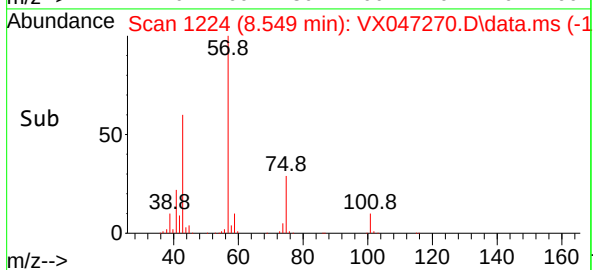
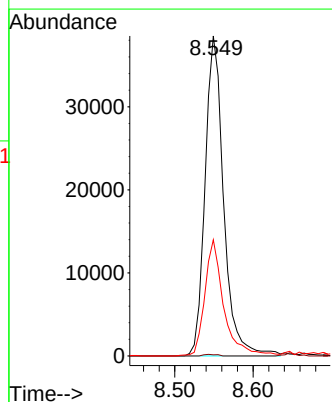
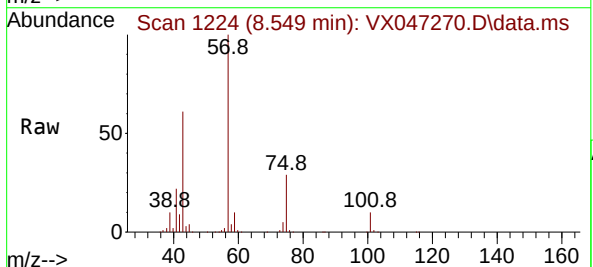
Instrument :
MSVOA_X
ClientSampleId :
TP-5

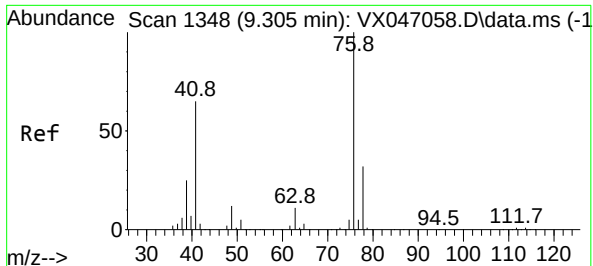
Tgt Ion: 43 Resp: 140101
Ion Ratio Lower Upper
43 100
58 7.8 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 12.925 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 75 Resp: 63401
Ion Ratio Lower Upper
75 100
77 0.4 25.4 38.0#
39 35.8 41.8 62.6#

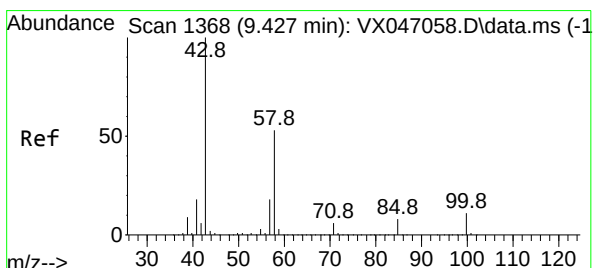
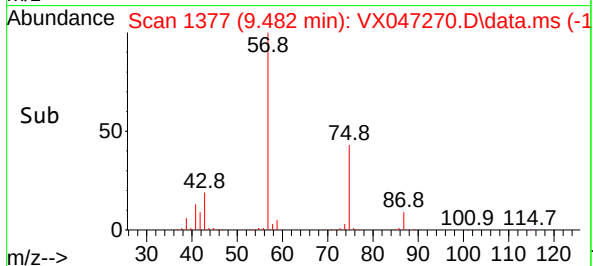
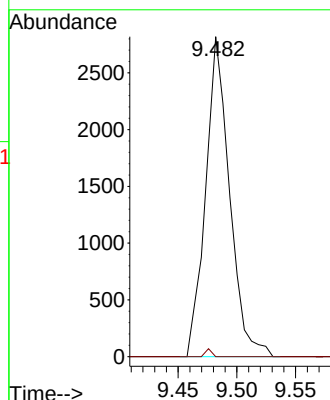
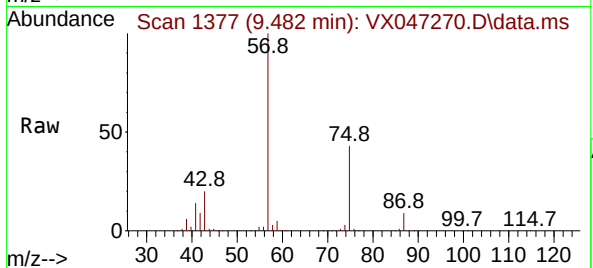




#57
1,3-Dichloropropane
Concen: 0.785 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.177 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

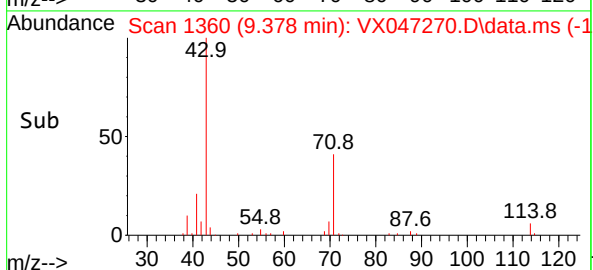
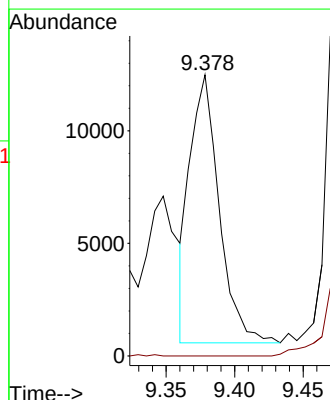
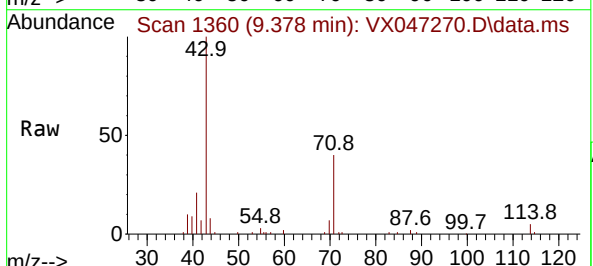
Instrument :
MSVOA_X
ClientSampleId :
TP-5

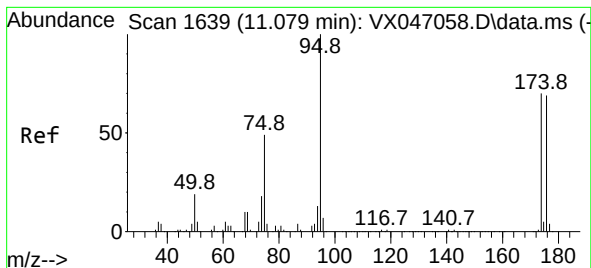
Tgt Ion: 76 Resp: 3995
Ion Ratio Lower Upper
76 100
78 0.7 25.5 38.3#



#59
2-Hexanone
Concen: 7.146 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.048 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 43 Resp: 17684
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.5#

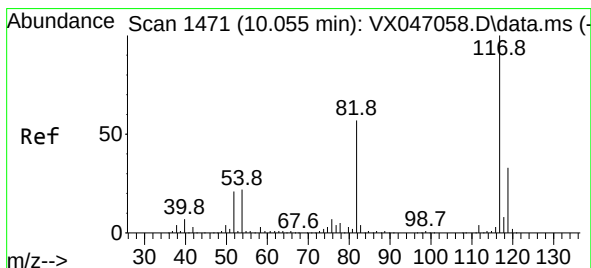
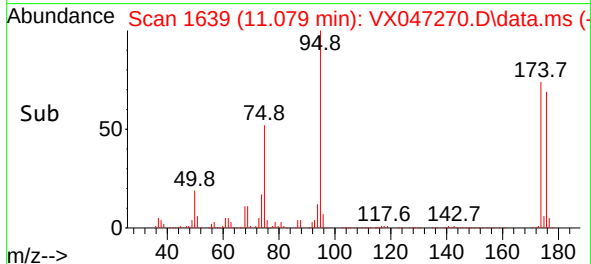
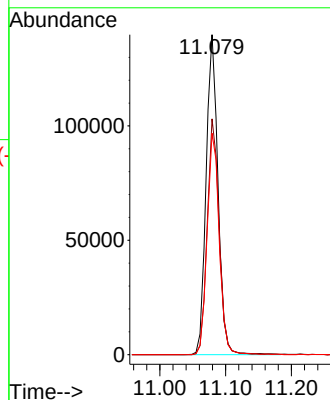
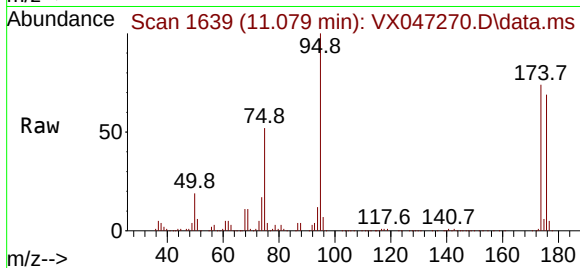




#62
4-Bromofluorobenzene
Concen: 48.916 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

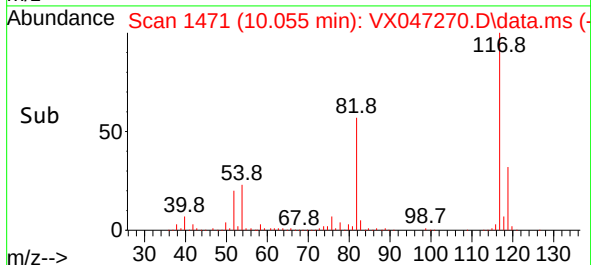
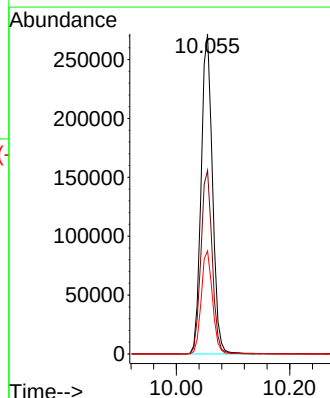
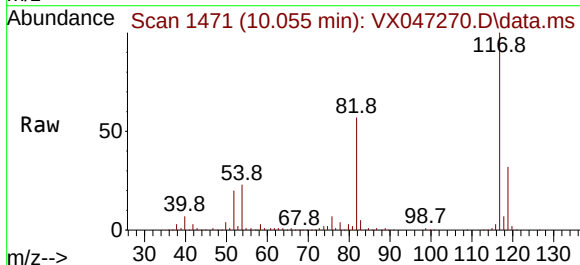
Instrument :
MSVOA_X
ClientSampleId :
TP-5

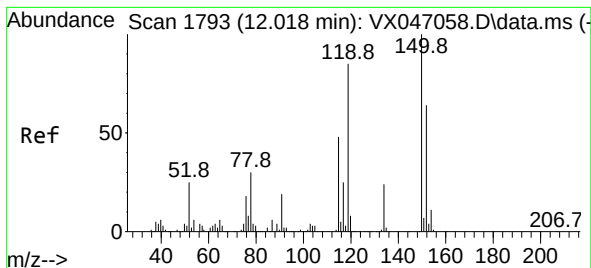
Tgt Ion: 95 Resp: 175695
Ion Ratio Lower Upper
95 100
174 74.2 0.0 144.6
176 70.7 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 117 Resp: 376801
Ion Ratio Lower Upper
117 100
82 57.4 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# 1

Delta R.T. 0.000 min

Lab File: VX047270.D

Acq: 08 Aug 2025 14:48

Instrument :

MSVOA_X

ClientSampleId :

TP-5

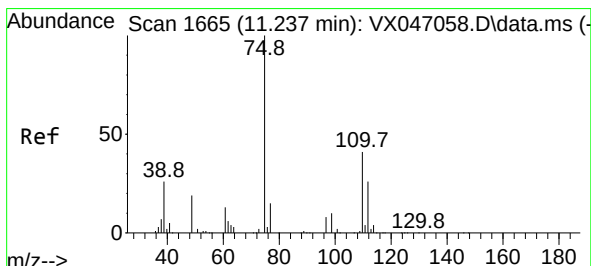
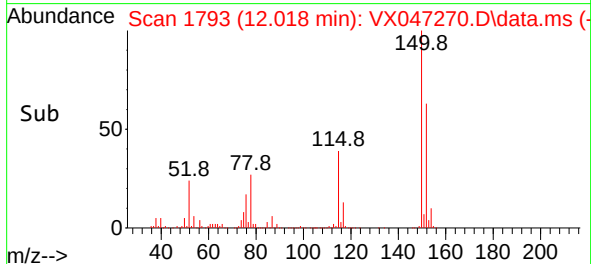
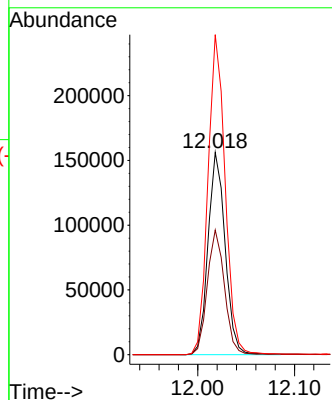
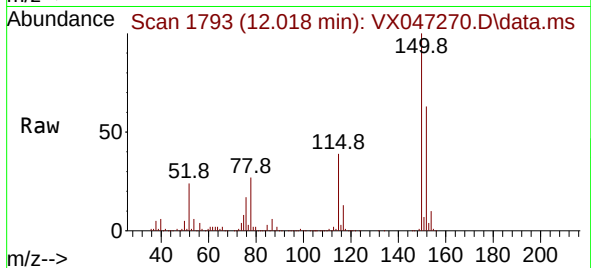
Tgt Ion:152 Resp: 192624

Ion Ratio Lower Upper

152 100

115 61.9 45.6 136.7

150 159.5 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 25.413 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047270.D

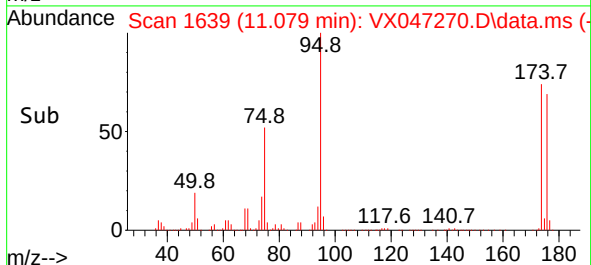
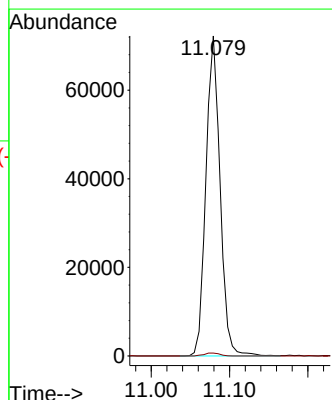
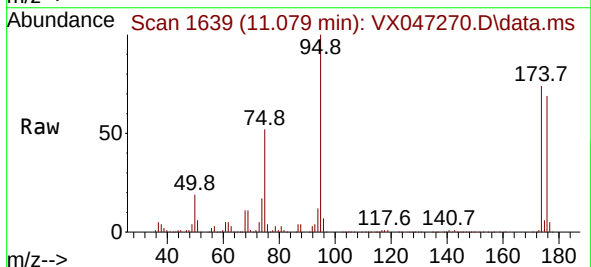
Acq: 08 Aug 2025 14:48

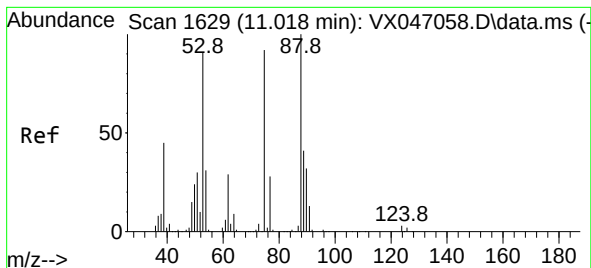
Tgt Ion: 75 Resp: 90607

Ion Ratio Lower Upper

75 100

77 1.0 21.6 65.0#

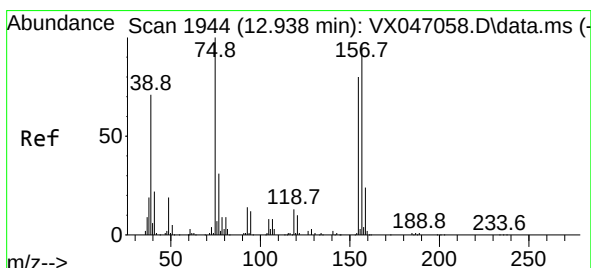
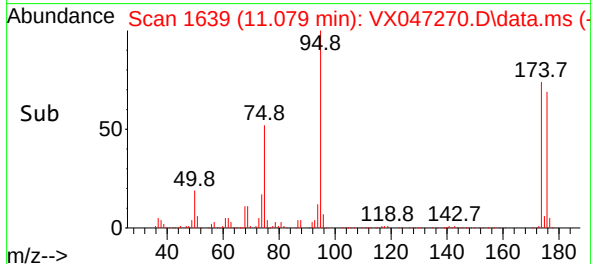
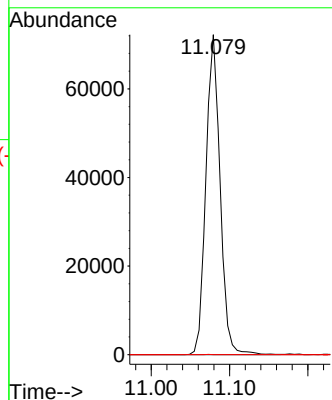
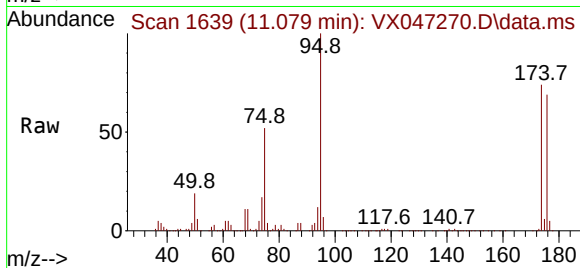




#81
trans-1,4-Dichloro-2-butene
Concen: 65.474 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Instrument :
MSVOA_X
ClientSampleId :
TP-5

Tgt Ion: 75 Resp: 90607
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.254 ug/l
RT: 12.762 min Scan# 1915
Delta R.T. -0.176 min
Lab File: VX047270.D
Acq: 08 Aug 2025 14:48

Tgt Ion: 75 Resp: 212
Ion Ratio Lower Upper
75 100
155 0.0 41.3 124.1#
157 0.0 52.8 158.3#

