

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047117.D
 Acq On : 24 Jul 2025 14:08
 Operator : JC/MD
 Sample : Q2481-12 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 25 01:23:34 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	405182	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	744375	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	710158	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	363979	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	285791	56.623	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	113.240%
35) Dibromofluoromethane	5.398	113	231882	50.453	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.900%
50) Toluene-d8	8.647	98	841647	56.547	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	113.100%#
62) 4-Bromofluorobenzene	11.079	95	353285	55.078	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	110.160%

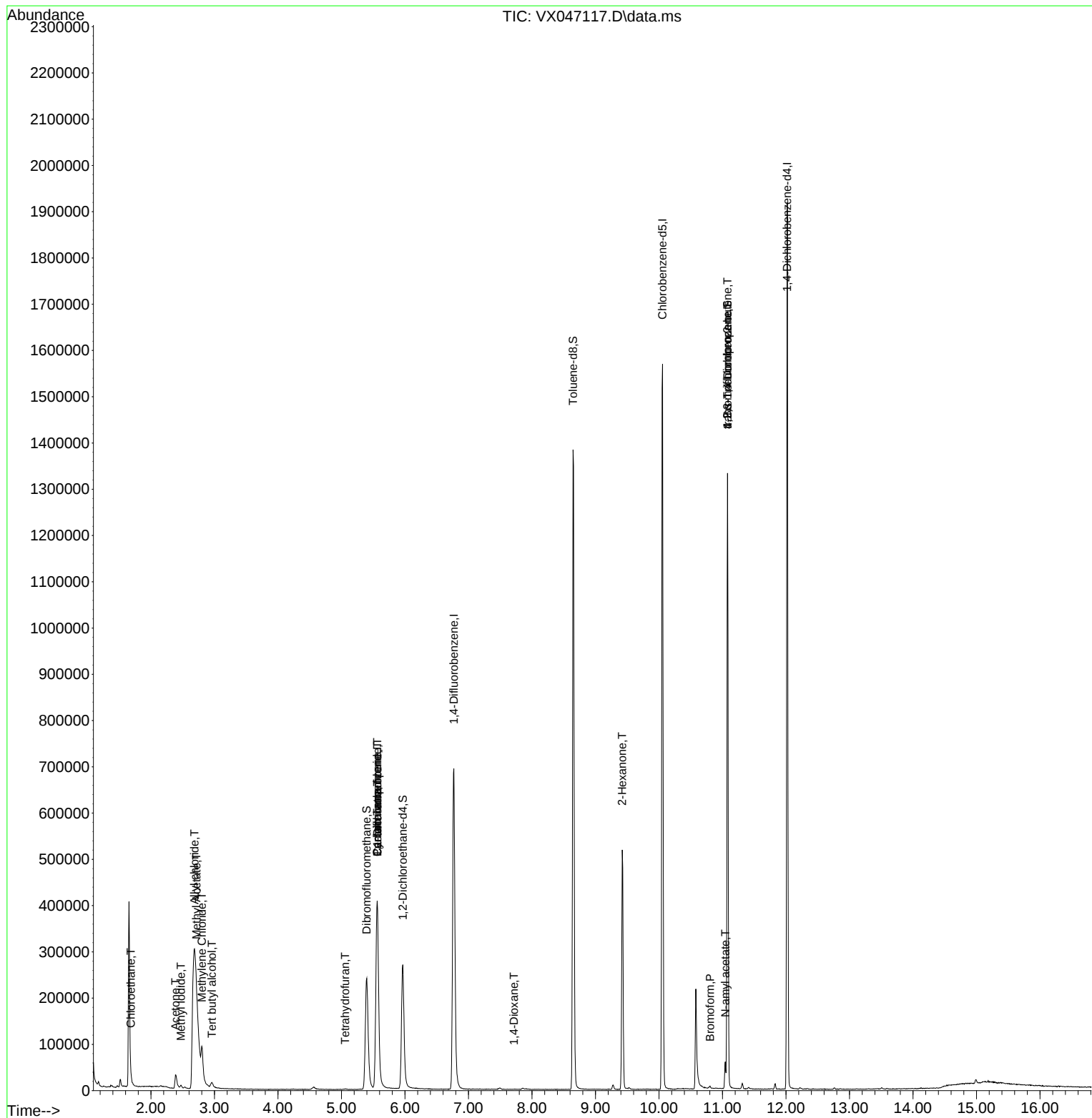
Target Compounds						Qvalue
6) Chloroethane	1.685	64	862	0.229	ug/l #	43
10) Methyl Iodide	2.471	142	7554	1.442	ug/l #	83
11) Tert butyl alcohol	2.959	59	8307	3.956	ug/l #	93
14) Allyl chloride	2.685	41	958231	104.105	ug/l #	42
16) Acetone	2.386	43	46893	23.192	ug/l	98
18) Methyl Acetate	2.715	43	1186	0.221	ug/l #	87
20) Methylene Chloride	2.800	84	27228	4.895	ug/l	97
29) Tetrahydrofuran	5.056	42	822	0.433	ug/l #	75
31) Cyclohexane	5.562	56	9056	0.960	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	35161	4.488	ug/l #	51
38) Carbon Tetrachloride	5.562	117	44281	5.296	ug/l #	16
49) 1,4-Dioxane	7.714	88	105	1.506	ug/l #	20
59) 2-Hexanone	9.421	43	1208	0.273	ug/l #	25
71) Bromoform	10.805	173	1682	0.395	ug/l #	96
74) N-amyl acetate	11.043	43	8175	0.706	ug/l #	7
76) 1,2,3-Trichloropropane	11.079	75	186473	27.679	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	186473	71.311	ug/l #	8

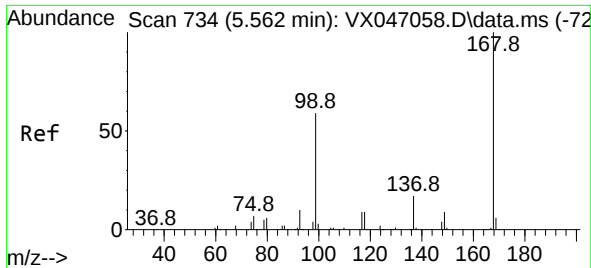
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 25 01:23:34 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

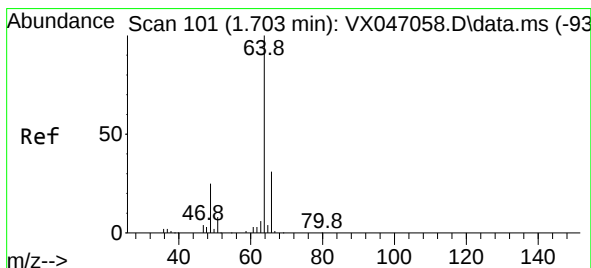
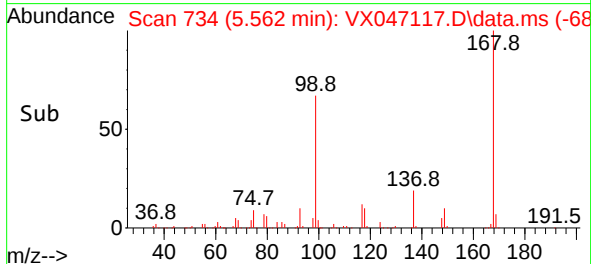
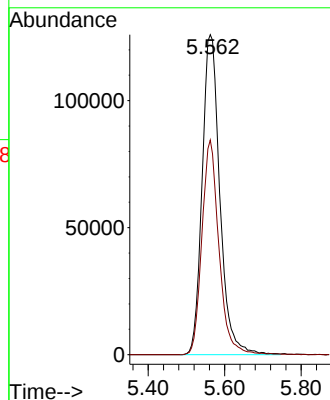
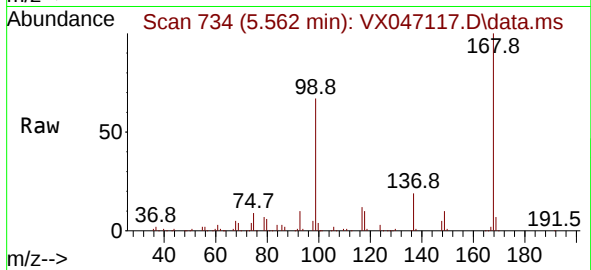




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

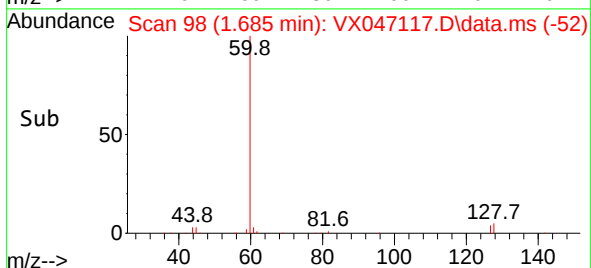
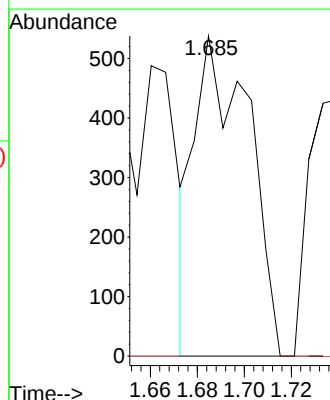
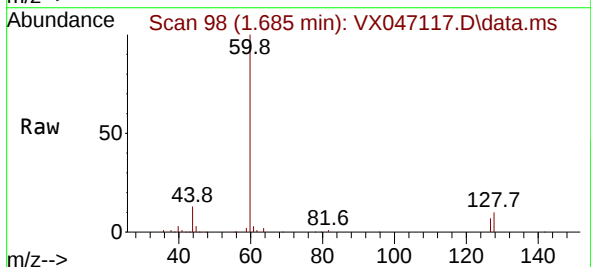
Instrument :
MSVOA_X
ClientSampleId :

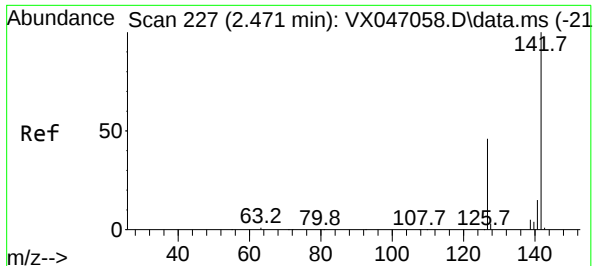
Tgt Ion:168 Resp: 405182
Ion Ratio Lower Upper
168 100
99 67.1 48.0 72.0



#6
Chloroethane
Concen: 0.229 ug/l
RT: 1.685 min Scan# 98
Delta R.T. -0.018 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

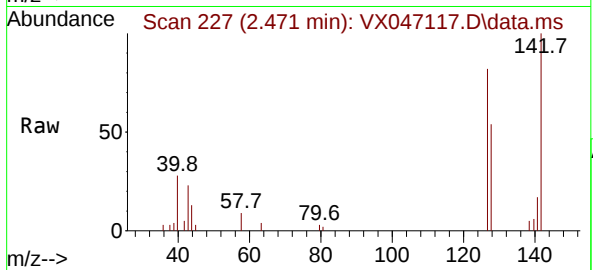
Tgt Ion: 64 Resp: 862
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



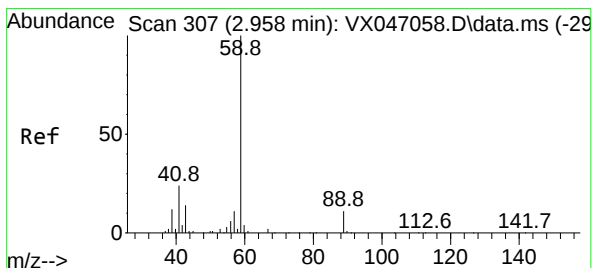
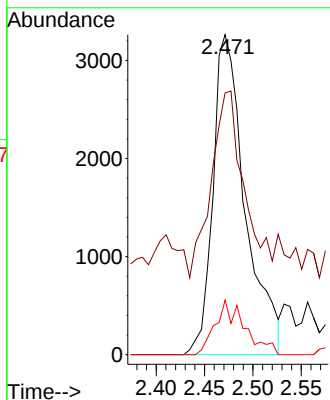
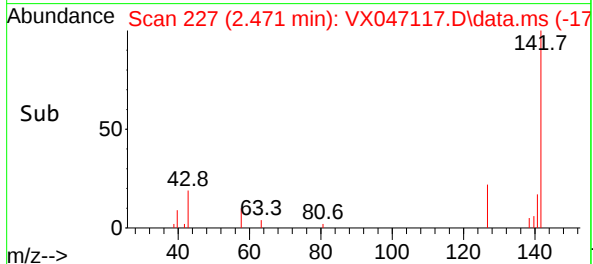


#10
Methyl Iodide
Concen: 1.442 ug/l
RT: 2.471 min Scan# 21
Delta R.T. 0.001 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Instrument :
MSVOA_X
ClientSampleId :

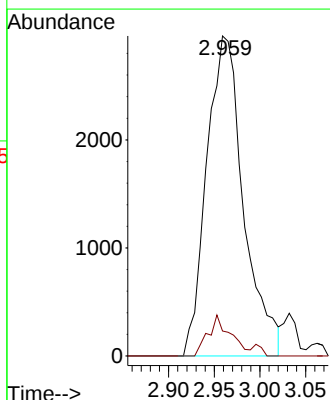
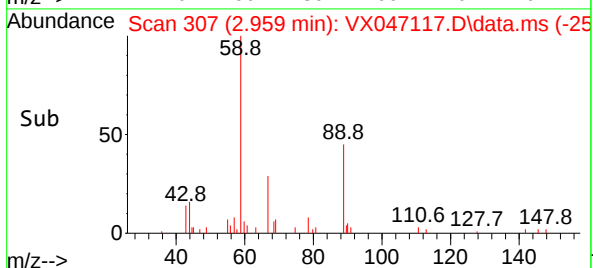
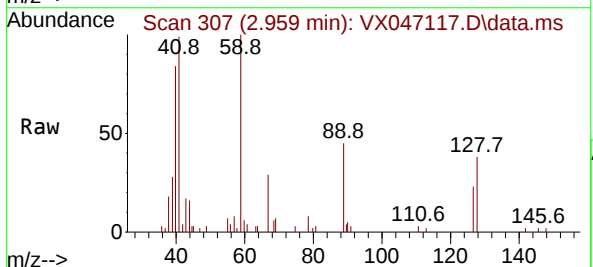


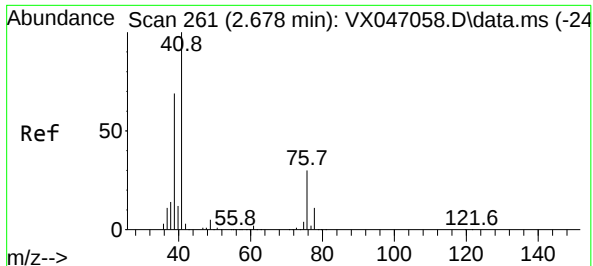
Tgt Ion:142 Resp: 7554
Ion Ratio Lower Upper
142 100
127 59.1 36.6 54.8#
141 15.5 10.9 16.3



#11
Tert butyl alcohol
Concen: 3.956 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.001 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

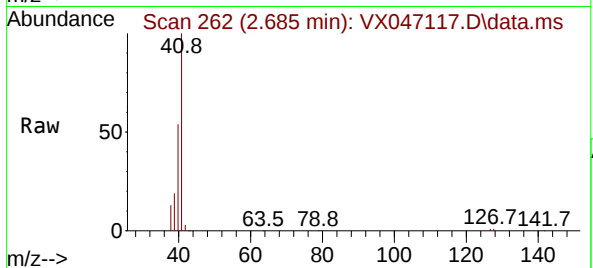
Tgt Ion: 59 Resp: 8307
Ion Ratio Lower Upper
59 100
57 7.8 8.5 12.7#



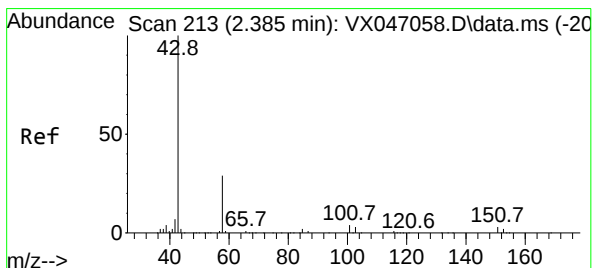
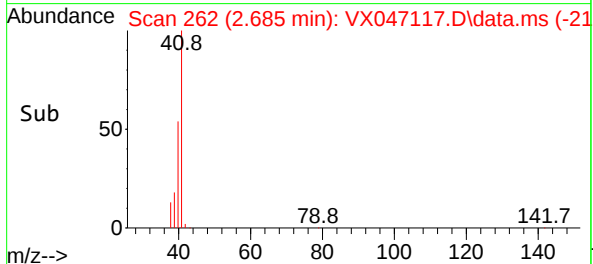
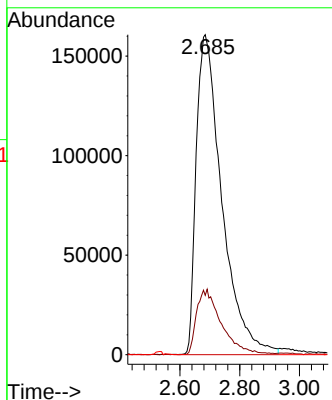


#14
 Allyl chloride
 Concen: 104.105 ug/l
 RT: 2.685 min Scan# 20
 Delta R.T. 0.007 min
 Lab File: VX047117.D
 Acq: 24 Jul 2025 14:08

Instrument :
 MSVOA_X
 ClientSampleId :

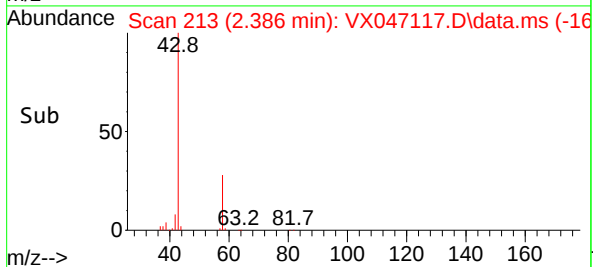
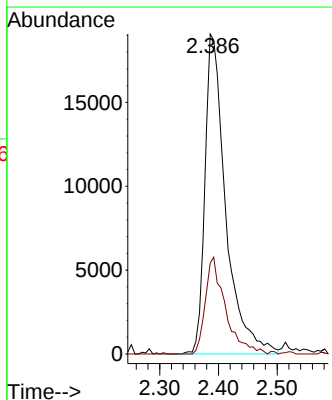
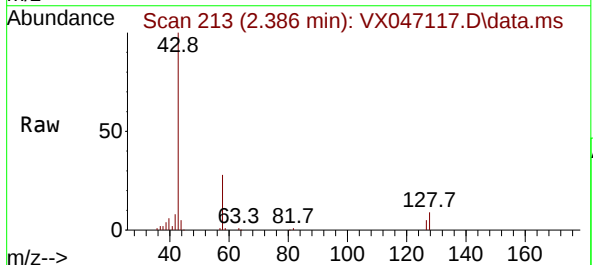


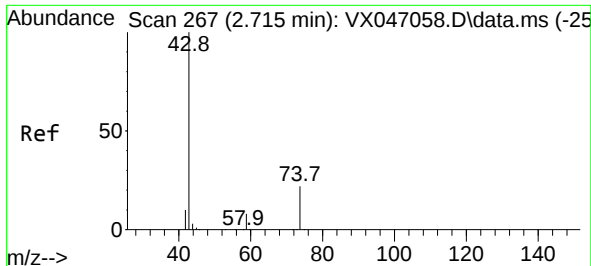
Tgt Ion: 41 Resp: 958231
 Ion Ratio Lower Upper
 41 100
 39 19.8 52.6 78.8#
 76 0.0 25.7 38.5#



#16
 Acetone
 Concen: 23.192 ug/l
 RT: 2.386 min Scan# 213
 Delta R.T. 0.001 min
 Lab File: VX047117.D
 Acq: 24 Jul 2025 14:08

Tgt Ion: 43 Resp: 46893
 Ion Ratio Lower Upper
 43 100
 58 29.0 24.0 36.0

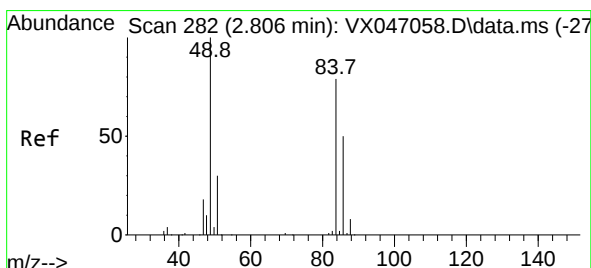
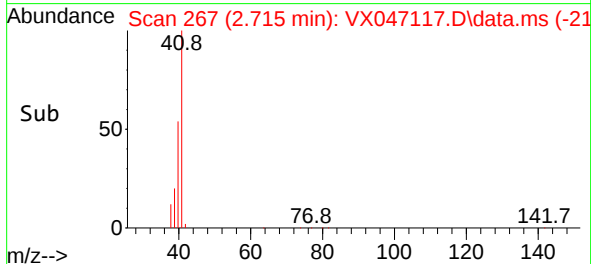
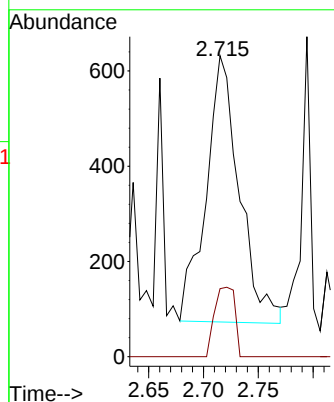
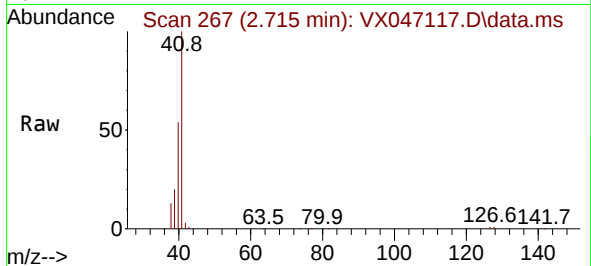




#18
Methyl Acetate
Concen: 0.221 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.001 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

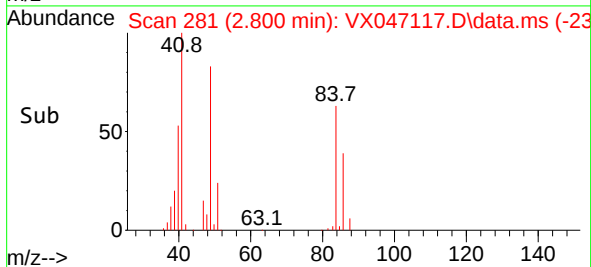
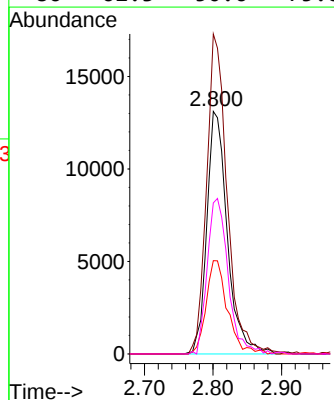
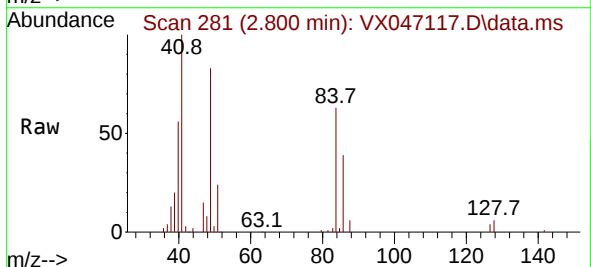
Instrument :
MSVOA_X
ClientSampleId :

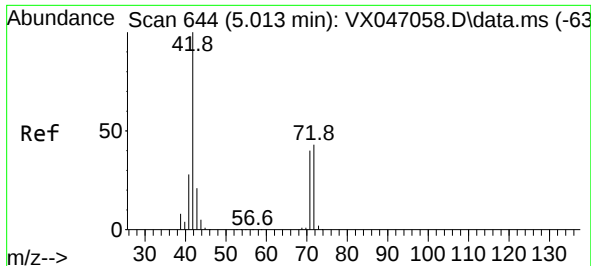
Tgt Ion: 43 Resp: 1186
Ion Ratio Lower Upper
43 100
74 15.9 17.7 26.5#



#20
Methylene Chloride
Concen: 4.895 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Tgt Ion: 84 Resp: 27228
Ion Ratio Lower Upper
84 100
49 131.9 101.6 152.4
51 39.0 30.3 45.5
86 62.3 50.6 75.8





#29

Tetrahydrofuran

Concen: 0.433 ug/l

RT: 5.056 min Scan# 611

Delta R.T. 0.043 min

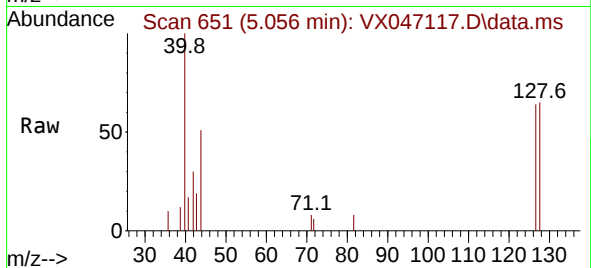
Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :



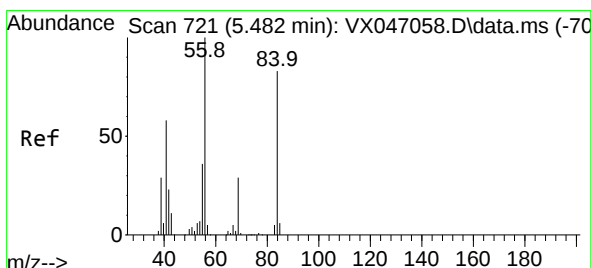
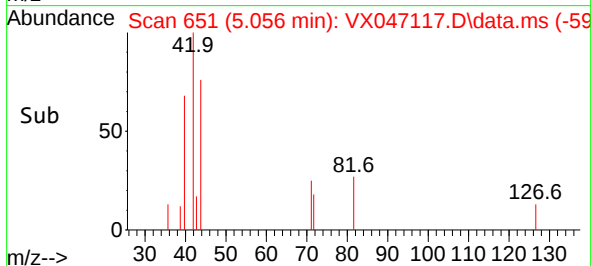
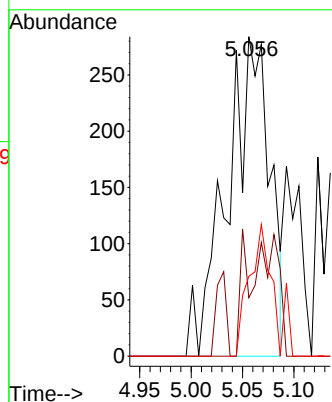
Tgt Ion: 42 Resp: 822

Ion Ratio Lower Upper

42 100

72 26.0 33.7 50.5#

71 23.4 31.0 46.4#



#31

Cyclohexane

Concen: 0.960 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.080 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

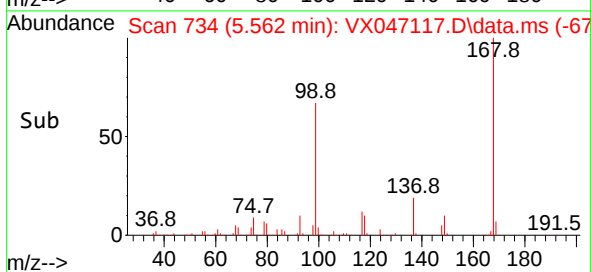
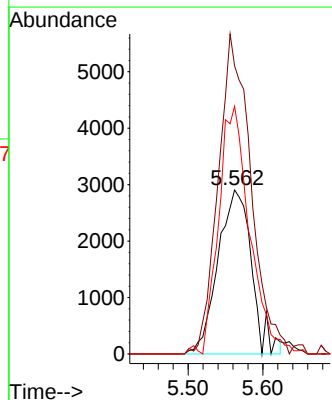
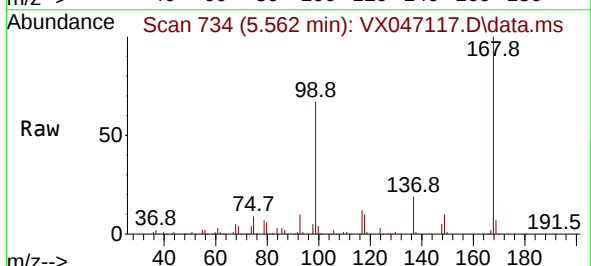
Tgt Ion: 56 Resp: 9056

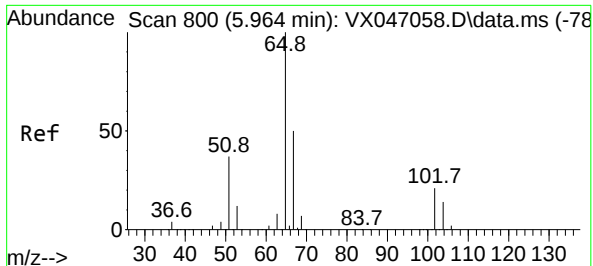
Ion Ratio Lower Upper

56 100

69 172.6 23.3 34.9#

84 146.4 66.5 99.7#





#33

1,2-Dichloroethane-d4

Concen: 56.623 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.001 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

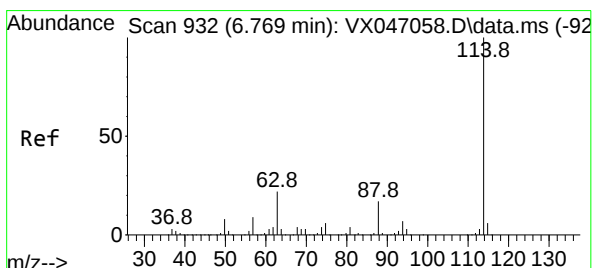
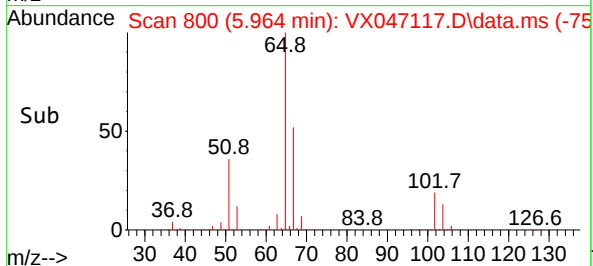
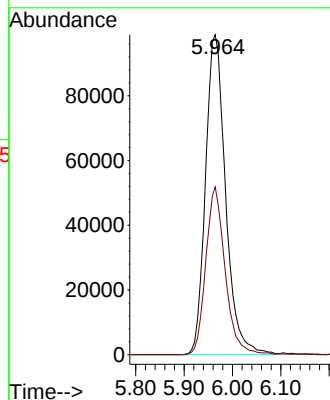
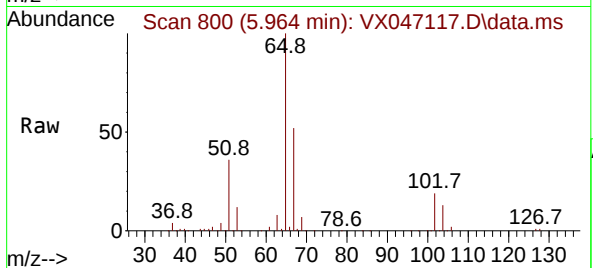
ClientSampleId :

Tgt Ion: 65 Resp: 285791

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.001 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

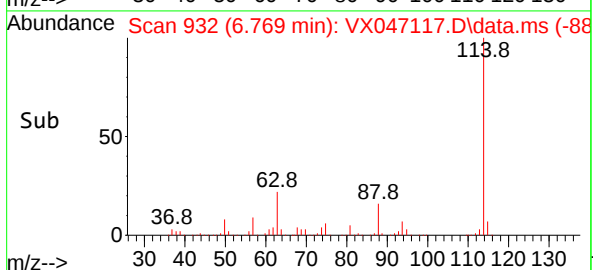
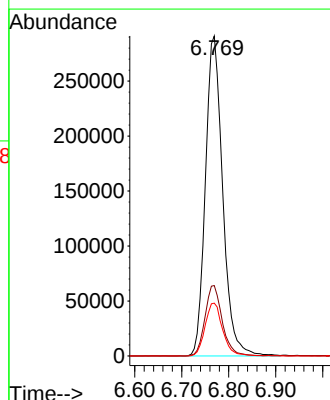
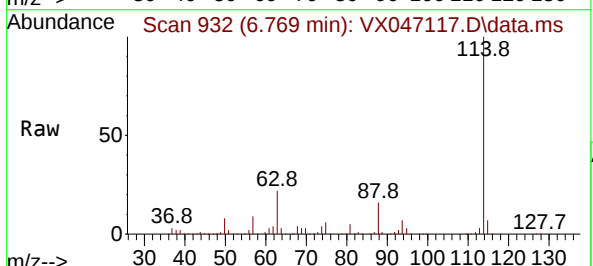
Tgt Ion: 114 Resp: 744375

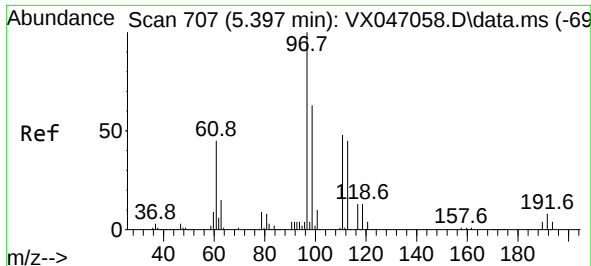
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.5 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.453 ug/l

RT: 5.398 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :

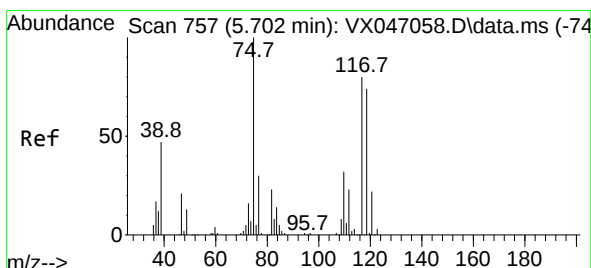
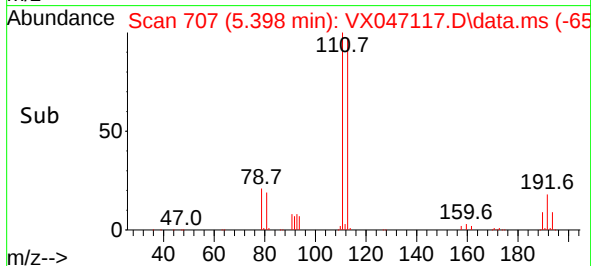
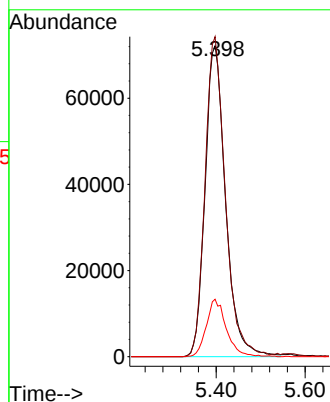
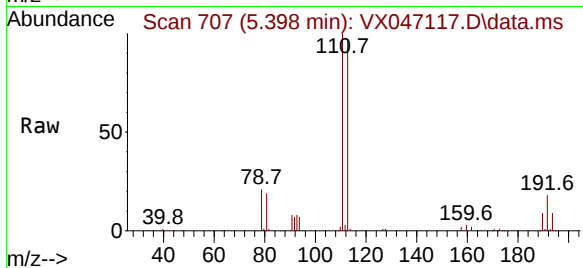
Tgt Ion:113 Resp: 231882

Ion Ratio Lower Upper

113 100

111 101.6 82.6 124.0

192 18.0 14.9 22.3



#36

1,1-Dichloropropene

Concen: 4.488 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.140 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

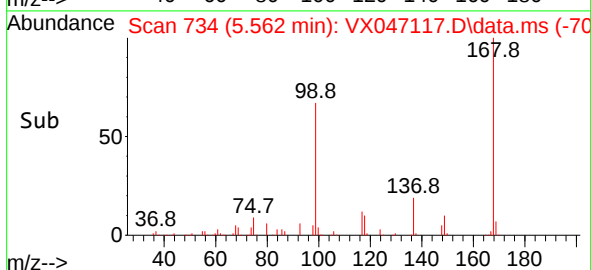
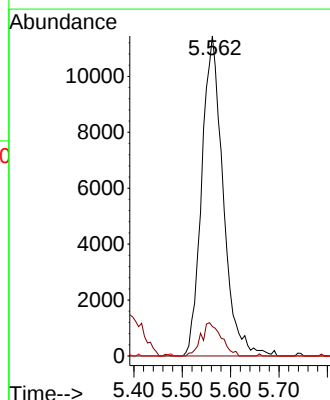
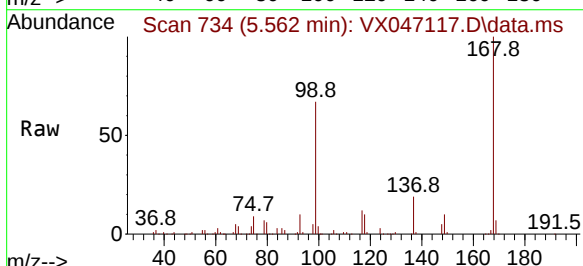
Tgt Ion: 75 Resp: 35161

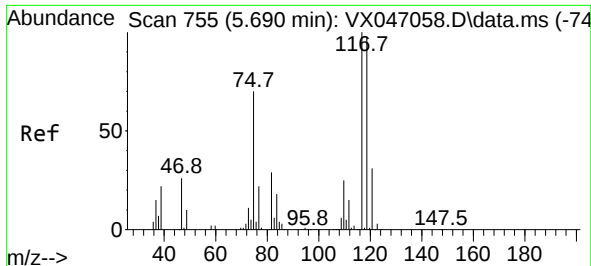
Ion Ratio Lower Upper

75 100

110 9.8 17.2 51.5#

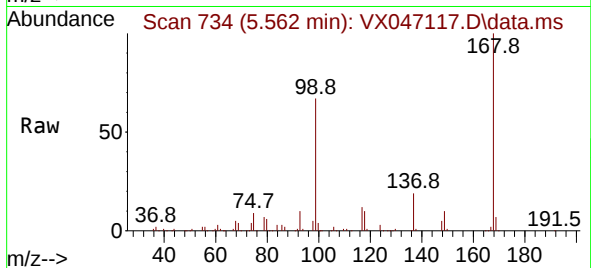
77 0.0 25.1 37.7#



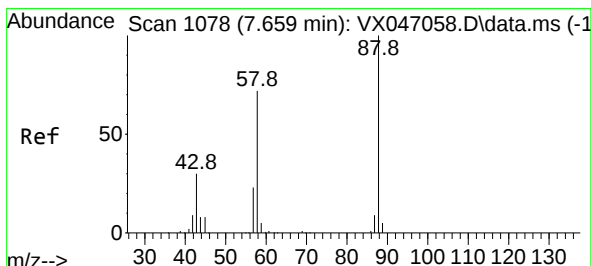
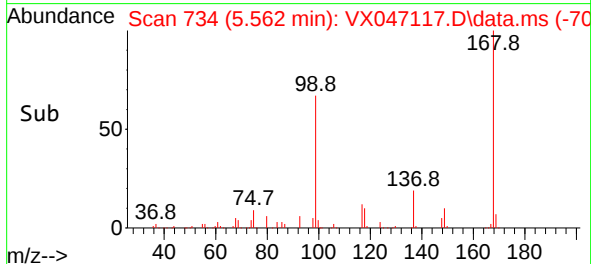
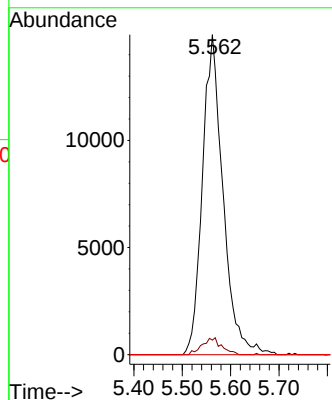


#38
Carbon Tetrachloride
Concen: 5.296 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Instrument :
MSVOA_X
ClientSampleId :

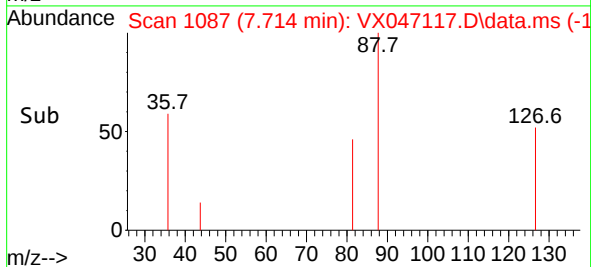
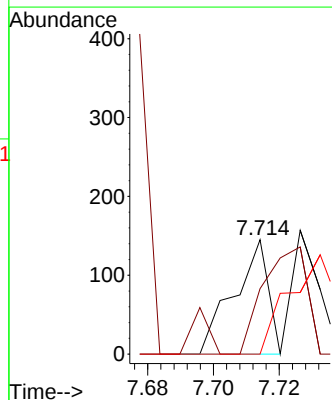
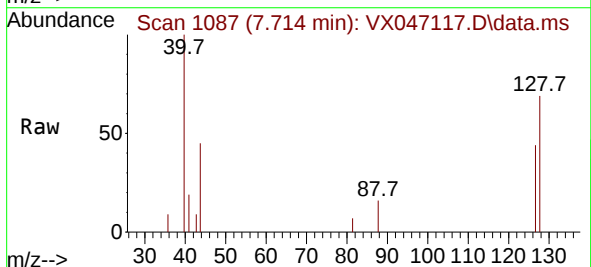


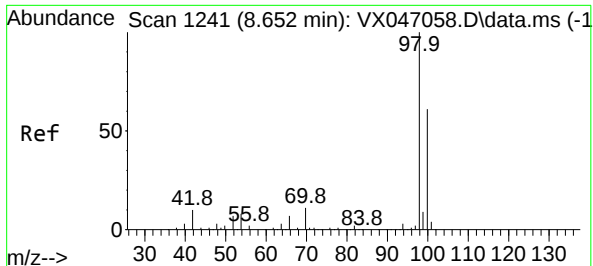
Tgt Ion:117 Resp: 44281
Ion Ratio Lower Upper
117 100
119 4.6 76.6 115.0#
121 0.0 24.4 36.6#



#49
1,4-Dioxane
Concen: 1.506 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.055 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Tgt Ion: 88 Resp: 105
Ion Ratio Lower Upper
88 100
43 0.0 33.6 50.4#
58 0.0 58.8 88.2#





#50

Toluene-d8

Concen: 56.547 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

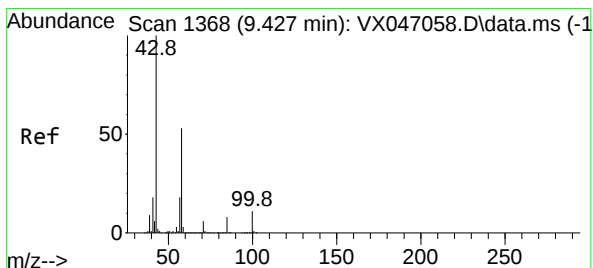
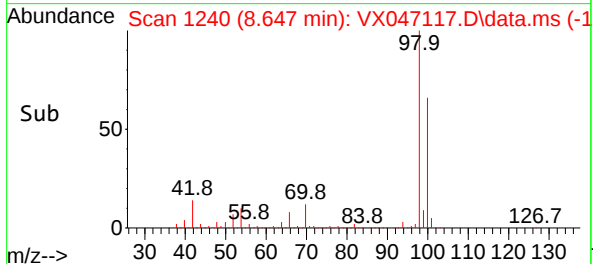
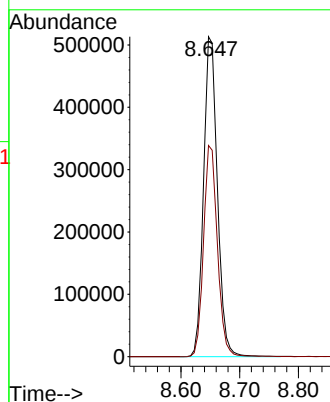
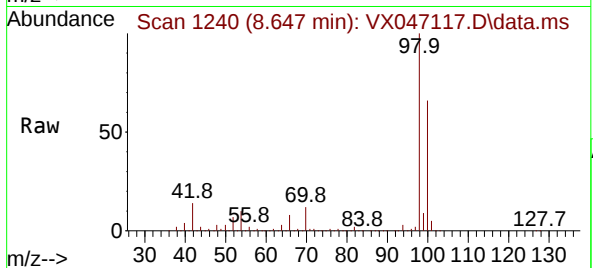
ClientSampleId :

Tgt Ion: 98 Resp: 841647

Ion Ratio Lower Upper

98 100

100 66.1 53.3 79.9



#59

2-Hexanone

Concen: 0.273 ug/l

RT: 9.421 min Scan# 1367

Delta R.T. -0.006 min

Lab File: VX047117.D

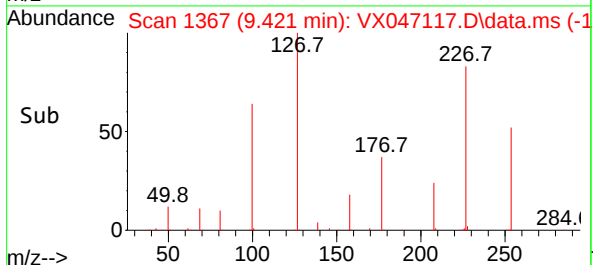
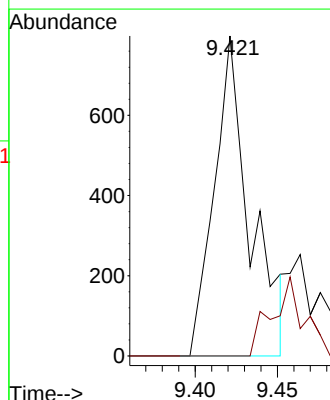
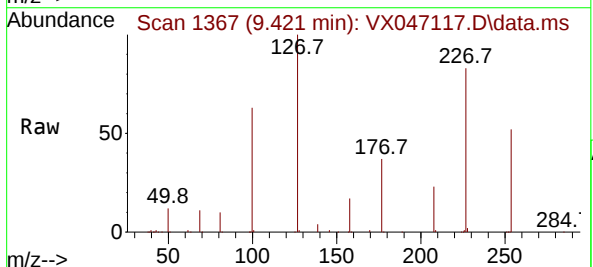
Acq: 24 Jul 2025 14:08

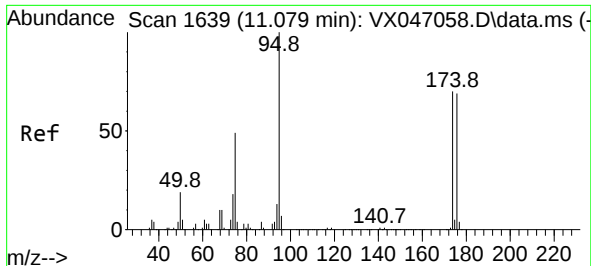
Tgt Ion: 43 Resp: 1208

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.5#

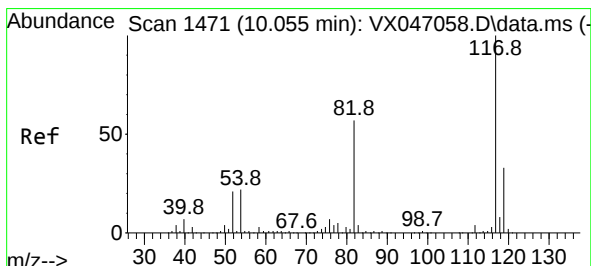
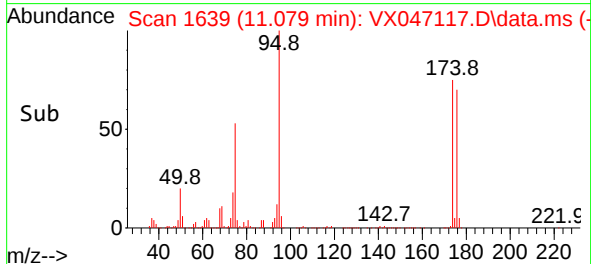
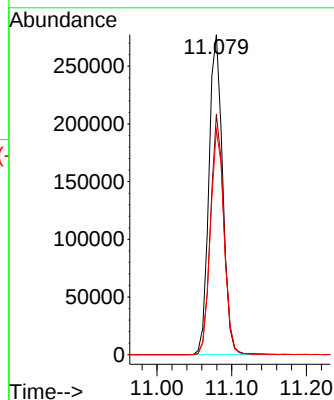
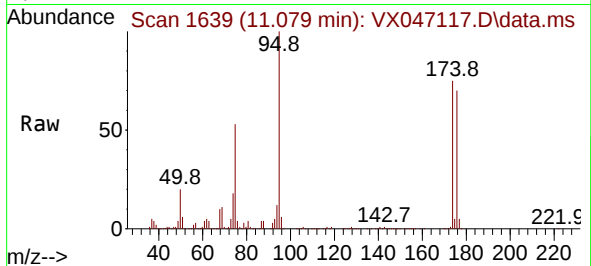




#62
4-Bromofluorobenzene
Concen: 55.078 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.001 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

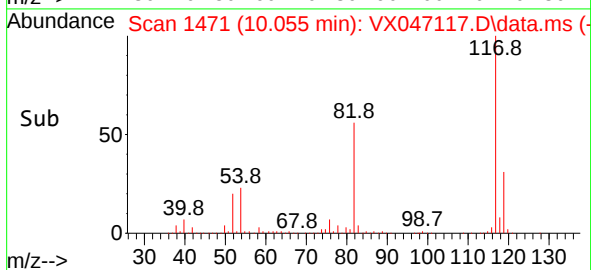
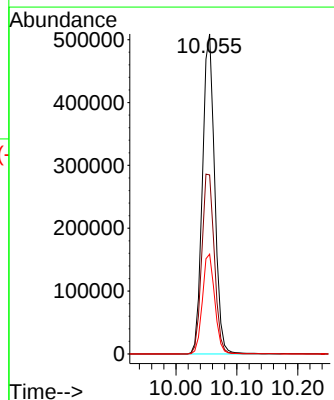
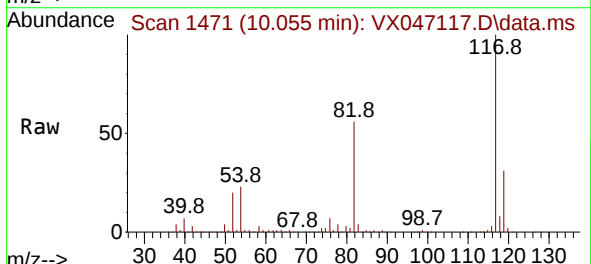
Instrument :
MSVOA_X
ClientSampleId :

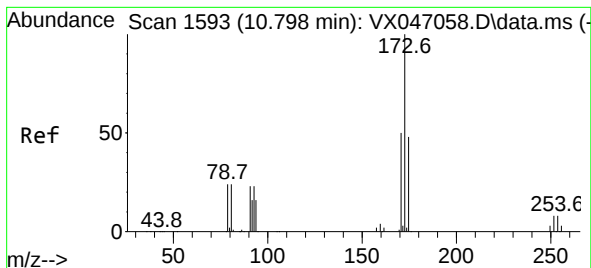
Tgt Ion: 95 Resp: 353285
Ion Ratio Lower Upper
95 100
174 73.3 0.0 144.6
176 70.1 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Tgt Ion: 117 Resp: 710158
Ion Ratio Lower Upper
117 100
82 55.9 45.4 68.2
119 31.2 26.1 39.1





#71

Bromoform

Concen: 0.395 ug/l

RT: 10.805 min Scan# 11

Delta R.T. 0.007 min

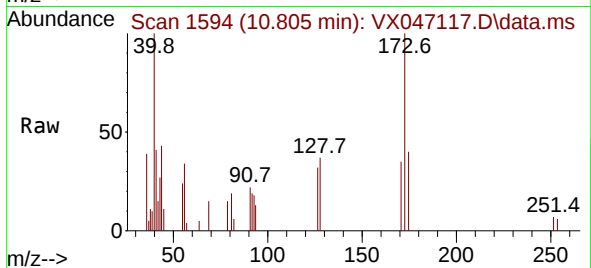
Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :



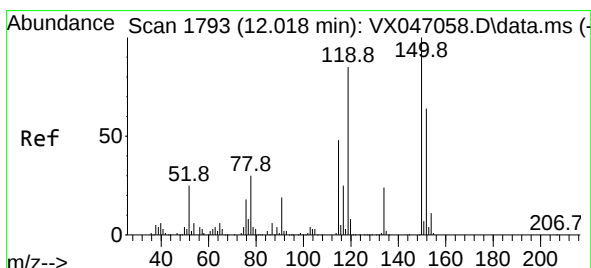
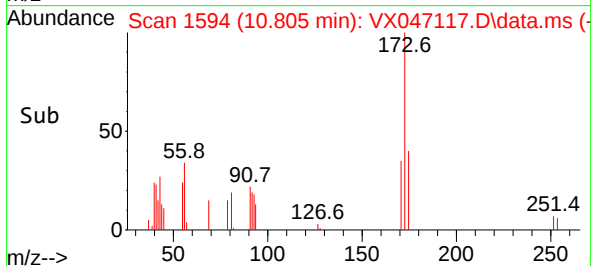
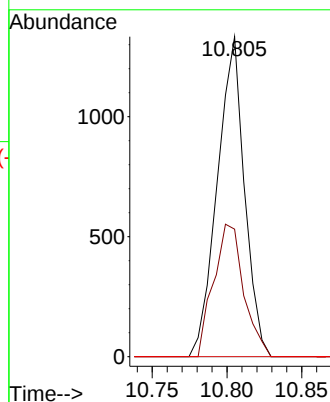
Tgt Ion:173 Resp: 1682

Ion Ratio Lower Upper

173 100

175 46.0 24.2 72.6

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.001 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

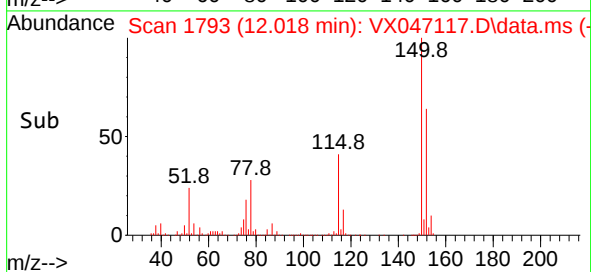
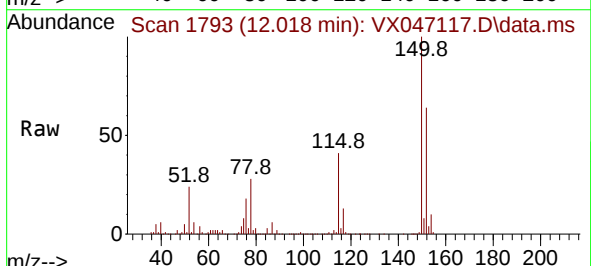
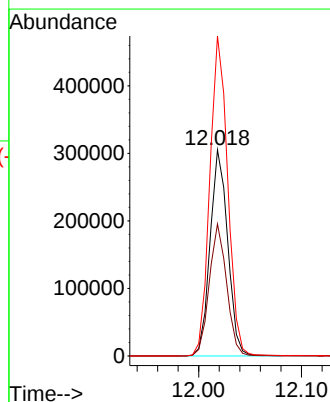
Tgt Ion:152 Resp: 363979

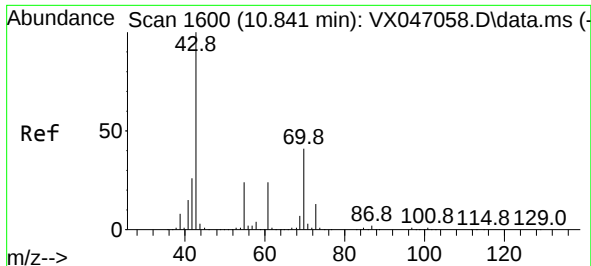
Ion Ratio Lower Upper

152 100

115 63.3 45.6 136.7

150 157.2 0.0 354.6

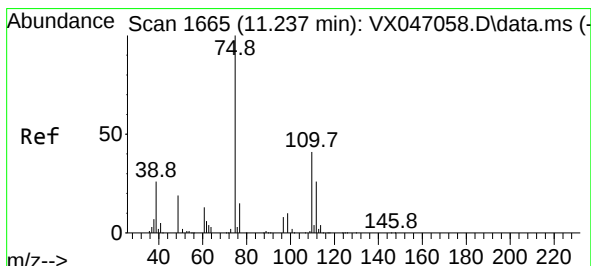
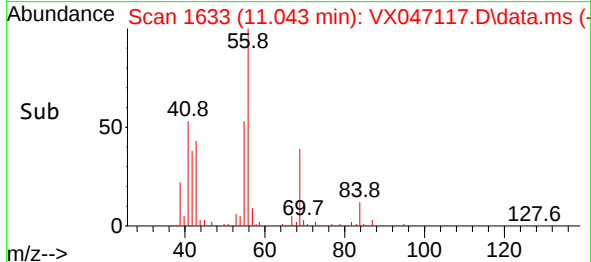
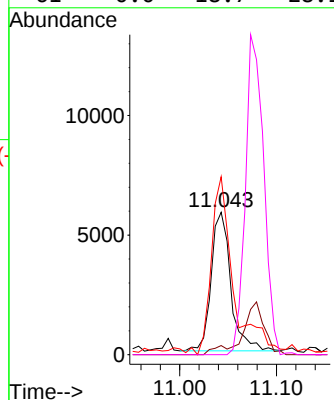
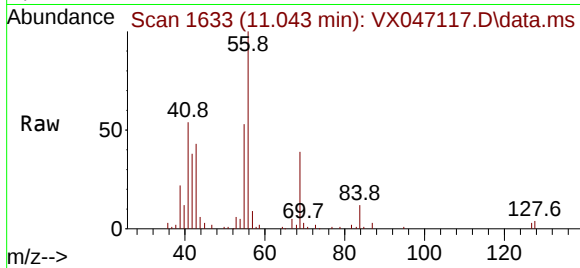




#74
N-amy1 acetate
Concen: 0.706 ug/l
RT: 11.043 min Scan# 1633
Delta R.T. 0.202 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

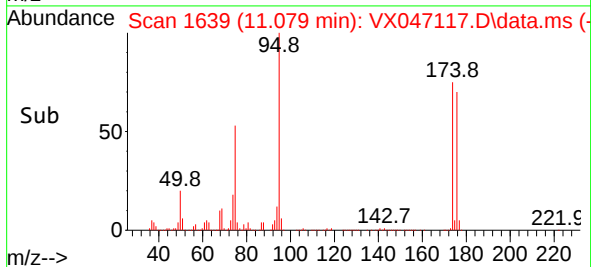
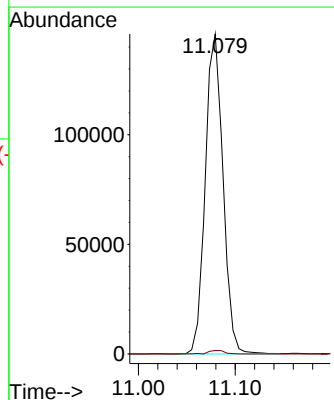
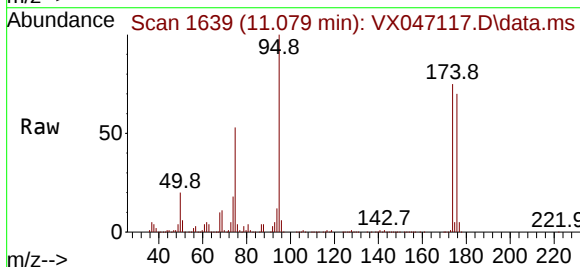
Instrument :
MSVOA_X
ClientSampleId :

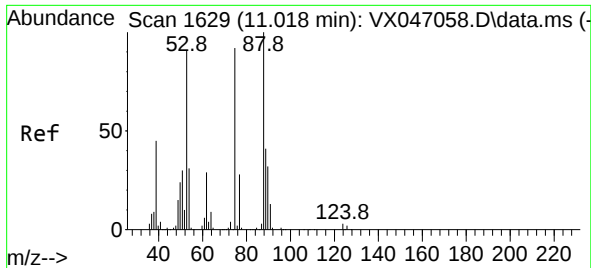
Tgt Ion: 43 Resp: 8175
Ion Ratio Lower Upper
43 100
70 4.9 32.3 48.5#
55 121.0 18.9 28.3#
61 0.0 18.7 28.1#



#76
1,2,3-Trichloropropane
Concen: 27.679 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

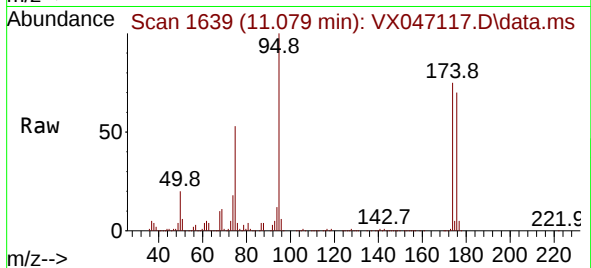
Tgt Ion: 75 Resp: 186473
Ion Ratio Lower Upper
75 100
77 1.0 21.6 65.0#





#81
trans-1,4-Dichloro-2-butene
Concen: 71.311 ug/l
RT: 11.079 min Scan# 10
Delta R.T. 0.061 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 75 Resp: 186473
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#

