

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091825\
 Data File : VX047652.D
 Acq On : 18 Sep 2025 19:11
 Operator : JC/MD
 Sample : Q3095-27
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE117D1-20250910

Quant Time: Sep 22 03:43:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

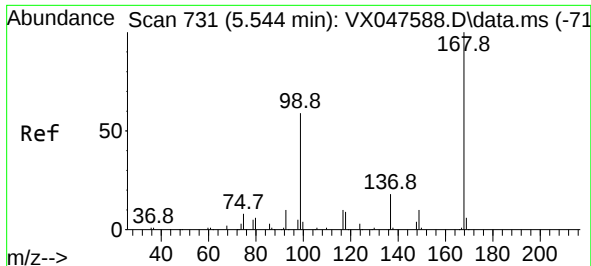
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	168120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	311795	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	281122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	134866	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	161813	60.467	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 120.940%#		
35) Dibromofluoromethane	5.373	113	119586	57.189	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 114.380%		
50) Toluene-d8	8.635	98	420015	58.049	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 116.100%#		
62) 4-Bromofluorobenzene	11.061	95	159945	58.246	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 116.500%		
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.337	101	3709	1.907	ug/l	95
11) Tert butyl alcohol	2.941	59	1177	3.949	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	3754	1.879	ug/l	94
16) Acetone	2.380	43	4202	3.611	ug/l #	84
24) 1,1-Dichloroethane	3.611	63	1037	0.244	ug/l #	81
25) 2-Butanone	4.544	43	596	0.411	ug/l #	89
26) 2,2-Dichloropropane	4.538	77	1335	0.378	ug/l #	54
27) cis-1,2-Dichloroethene	4.495	96	3034	1.152	ug/l #	1
29) Tetrahydrofuran	5.013	42	1276	1.461	ug/l #	83
30) Chloroform	5.074	83	1686	0.393	ug/l #	78
31) Cyclohexane	5.538	56	3741	1.058	ug/l #	10
36) 1,1-Dichloropropene	5.538	75	14300	4.680	ug/l #	51
38) Carbon Tetrachloride	5.660	117	4412	1.329	ug/l #	94
39) Methylcyclohexane	7.110	83	2243	0.647	ug/l #	1
41) Methacrylonitrile	4.995	41	377	0.223	ug/l #	39
44) Trichloroethene	7.110	130	264786	118.014	ug/l	97
49) 1,4-Dioxane	7.671	88	24	0.889	ug/l #	21
55) 1,1,2-Trichloroethane	9.141	97	1070	0.485	ug/l	96
76) 1,2,3-Trichloropropane	11.061	75	82249	30.121	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	82249	76.813	ug/l #	8

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

Quant Time: Sep 22 03:43:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

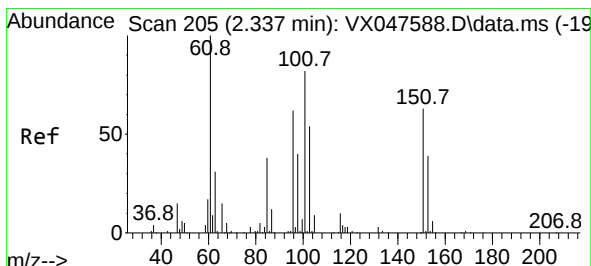
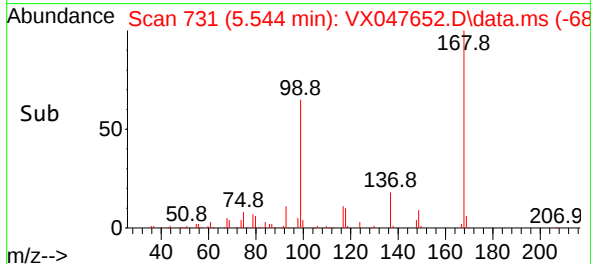
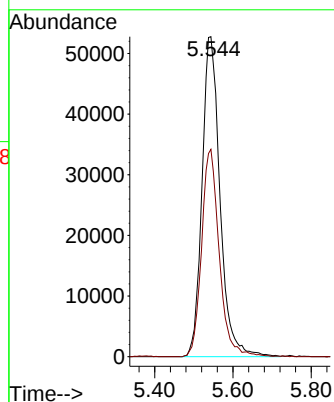
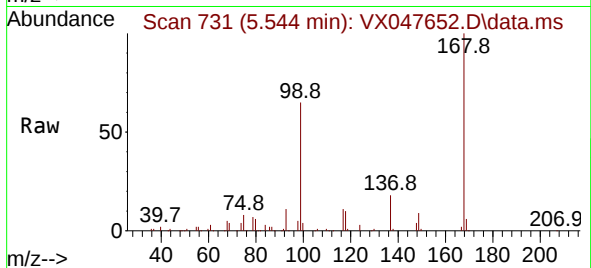




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

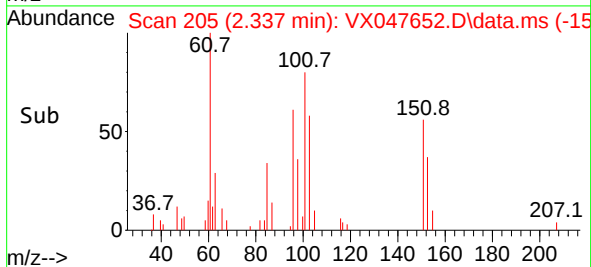
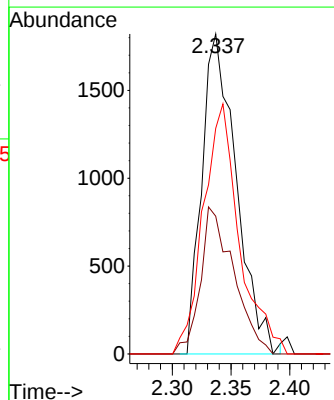
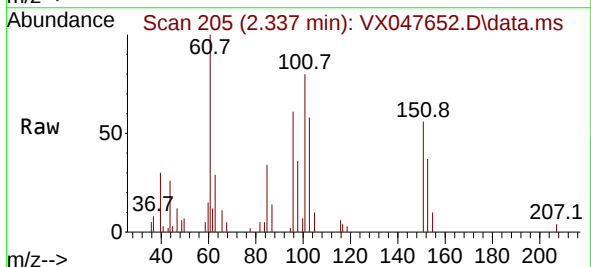
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

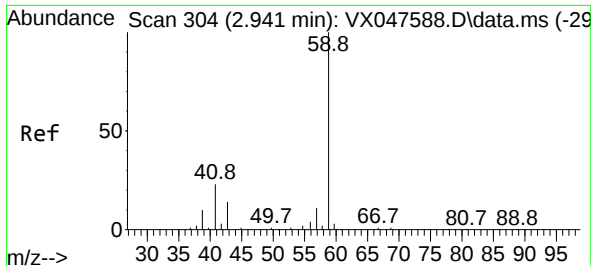
Tgt Ion:168 Resp: 168120
Ion Ratio Lower Upper
168 100
99 64.8 48.8 73.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.907 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

Tgt Ion:101 Resp: 3709
Ion Ratio Lower Upper
101 100
85 44.5 35.5 53.3
151 81.6 59.4 89.0

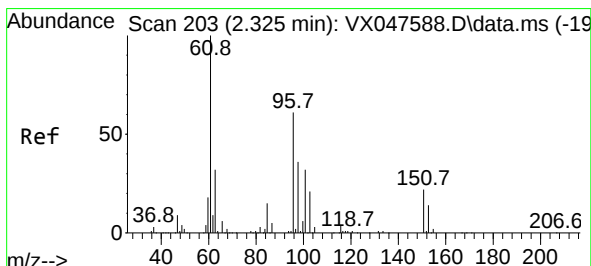
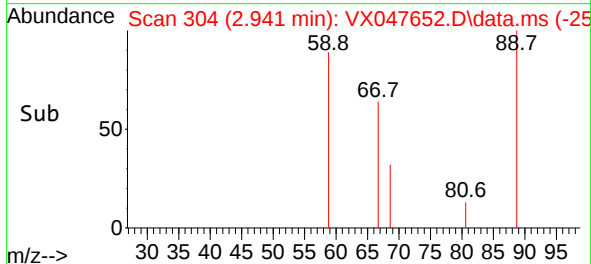
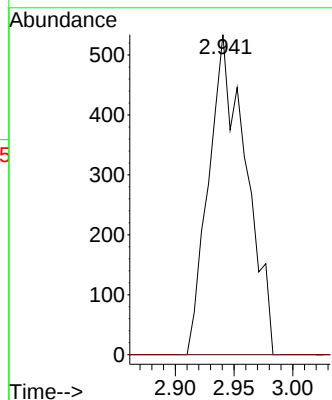
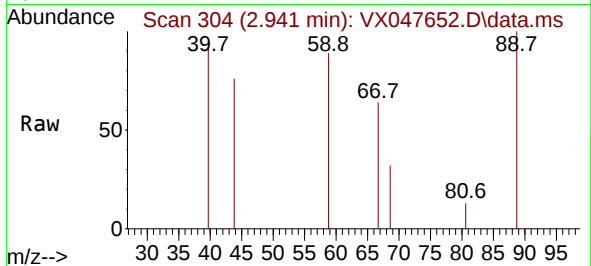




#11
Tert butyl alcohol
Concen: 3.949 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

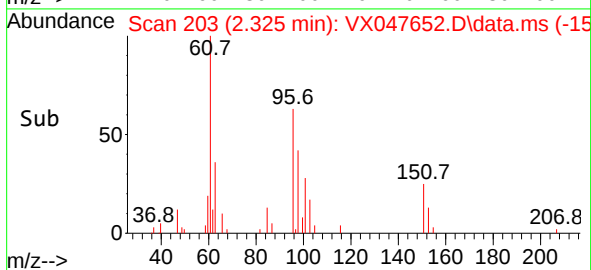
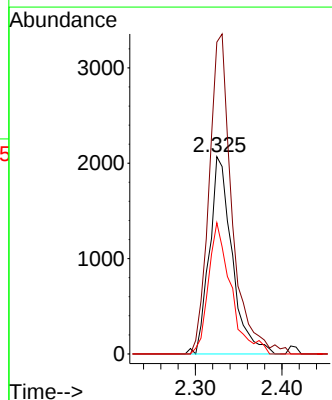
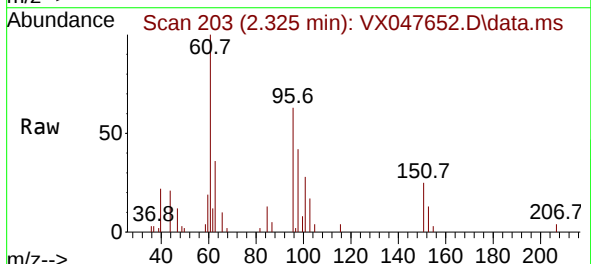
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ClientSampleId :
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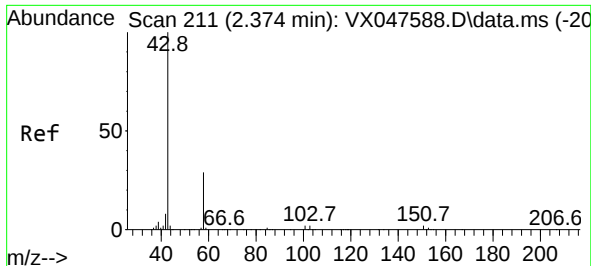
Tgt Ion: 59 Resp: 1177
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 1.879 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

Tgt Ion: 96 Resp: 3754
Ion Ratio Lower Upper
96 100
61 158.0 131.0 196.6
98 66.5 47.7 71.5

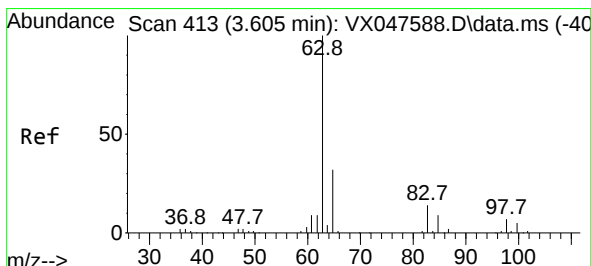
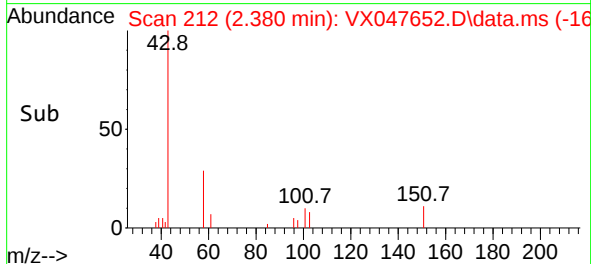
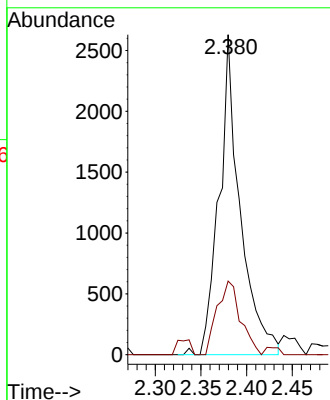
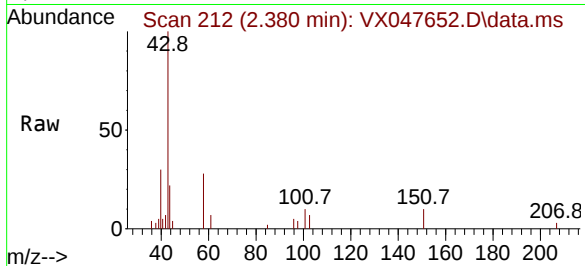




#16
Acetone
Concen: 3.611 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

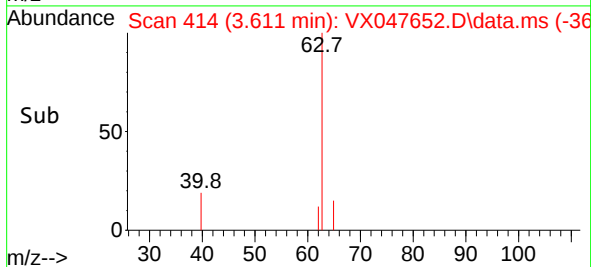
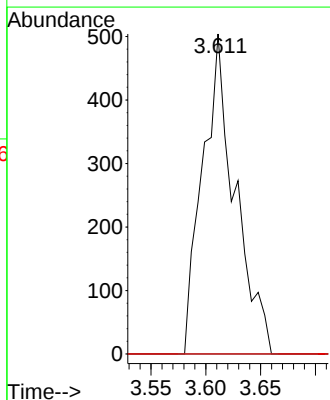
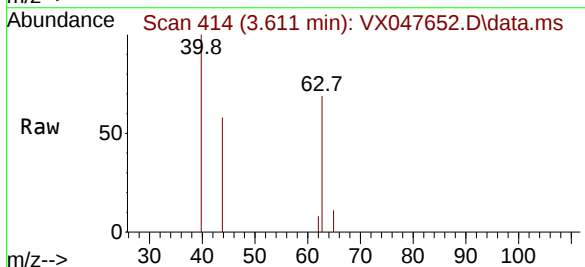
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

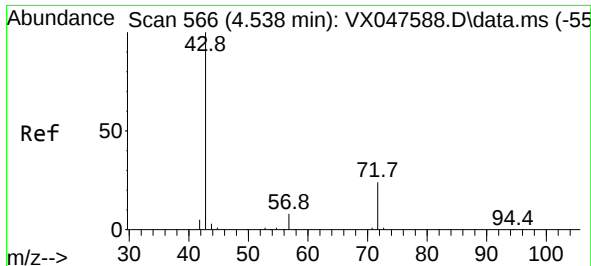
Tgt Ion: 43 Resp: 4202
Ion Ratio Lower Upper
43 100
58 20.9 23.4 35.0#



#24
1,1-Dichloroethane
Concen: 0.244 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

Tgt Ion: 63 Resp: 1037
Ion Ratio Lower Upper
63 100
98 0.0 3.8 11.2#
100 0.0 2.3 6.9#





#25

2-Butanone

Concen: 0.411 ug/l

RT: 4.544 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Instrument :

MSVOA_X

ClientSampleId :

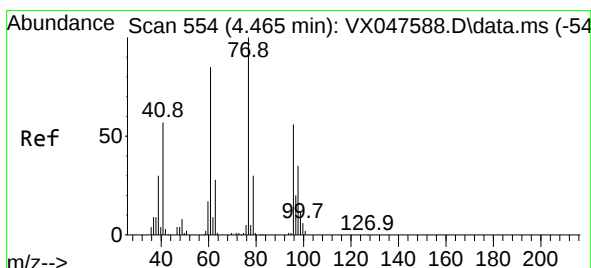
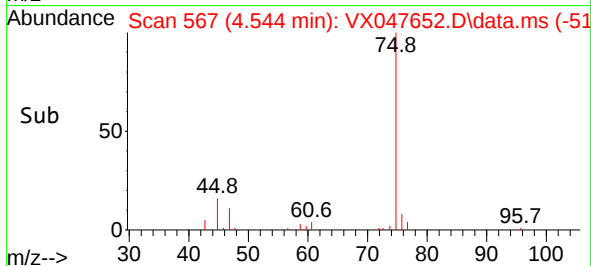
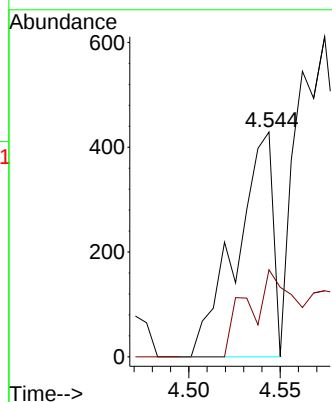
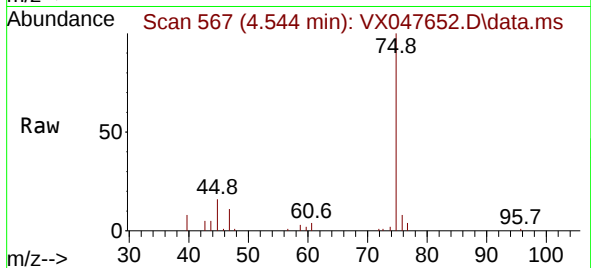
RE117D1-20250910

Tgt Ion: 43 Resp: 596

Ion Ratio Lower Upper

43 100

72 19.3 20.1 30.1#



#26

2,2-Dichloropropane

Concen: 0.378 ug/l

RT: 4.538 min Scan# 566

Delta R.T. 0.073 min

Lab File: VX047652.D

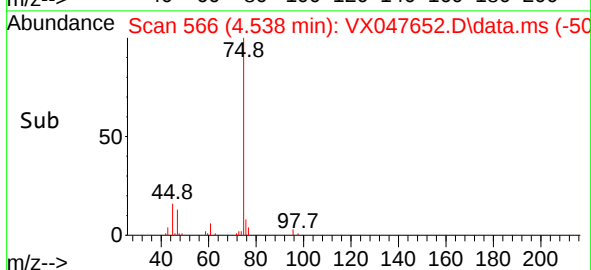
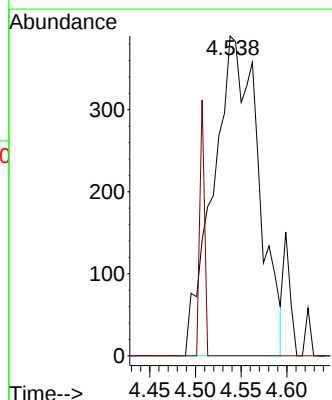
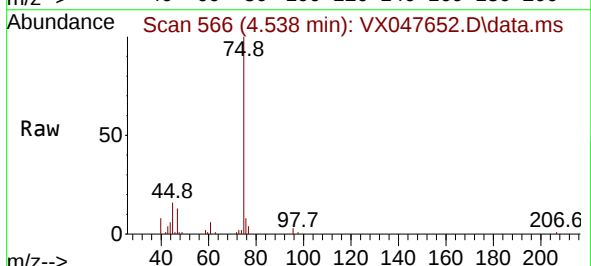
Acq: 18 Sep 2025 19:11

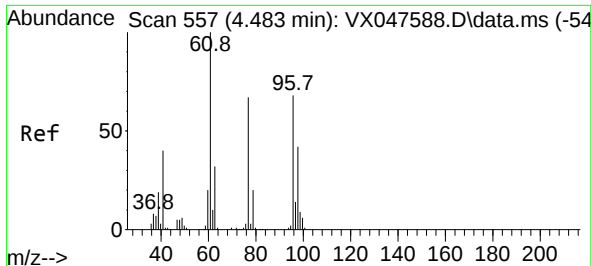
Tgt Ion: 77 Resp: 1335

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.7#

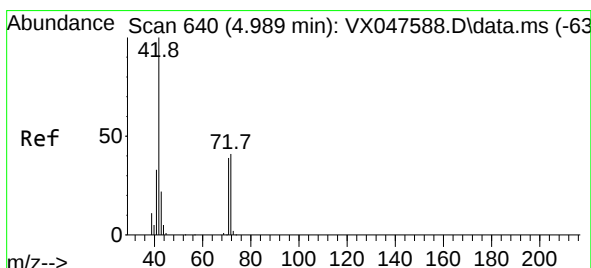
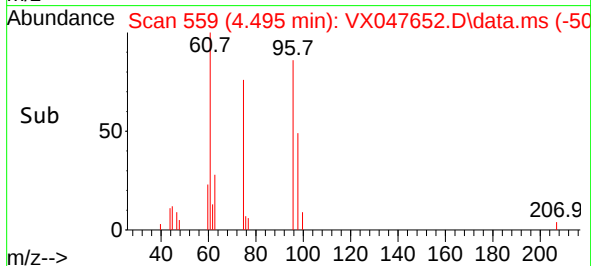
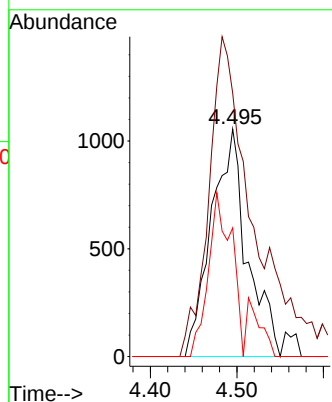
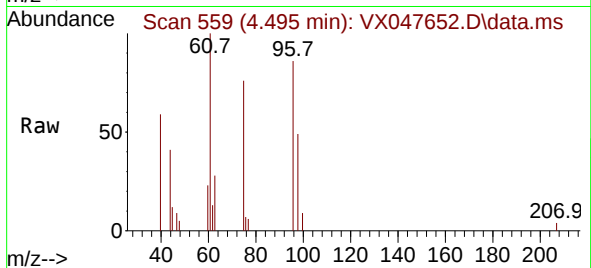




#27
 cis-1,2-Dichloroethene
 Concen: 1.152 ug/l
 RT: 4.495 min Scan# 51
 Delta R.T. 0.012 min
 Lab File: VX047652.D
 Acq: 18 Sep 2025 19:11

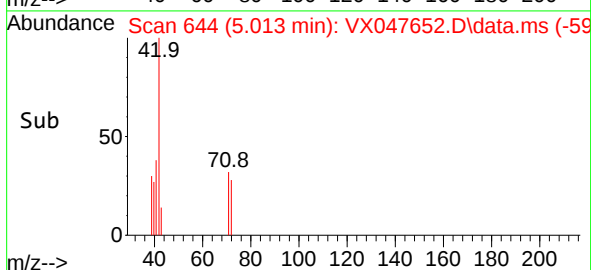
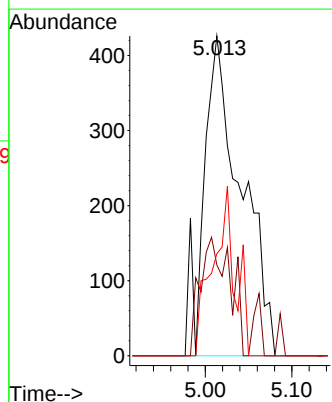
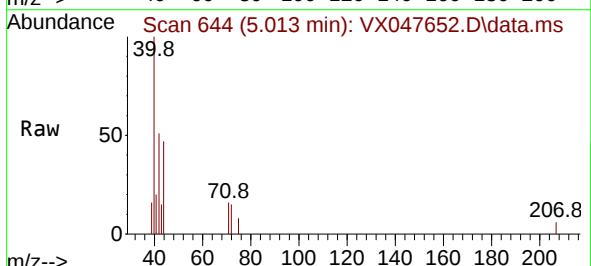
Instrument :
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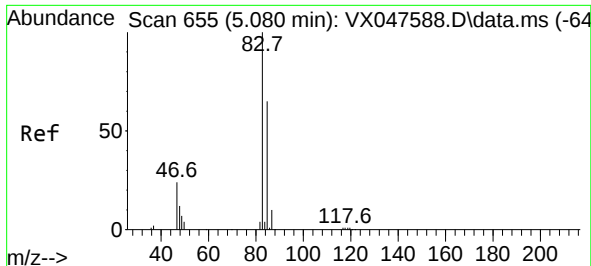
Tgt Ion:	96	Resp:	3034
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	303.2
98	9.9	0.0	127.8



#29
 Tetrahydrofuran
 Concen: 1.461 ug/l
 RT: 5.013 min Scan# 644
 Delta R.T. 0.024 min
 Lab File: VX047652.D
 Acq: 18 Sep 2025 19:11

Tgt Ion:	42	Resp:	1276
Ion	Ratio	Lower	Upper
42	100		
72	29.9	34.2	51.2#
71	31.9	31.9	47.9#





#30

Chloroform

Concen: 0.393 ug/l

RT: 5.074 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Instrument :

MSVOA_X

ClientSampleId :

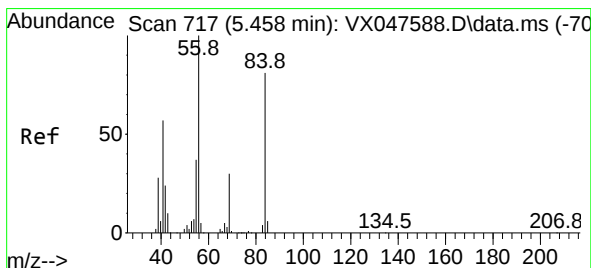
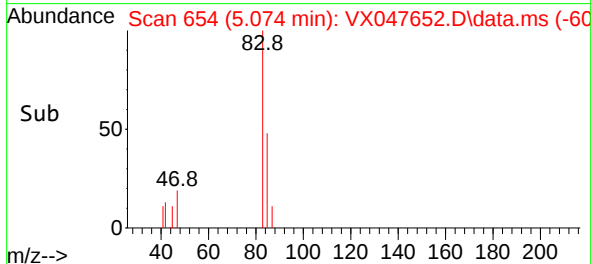
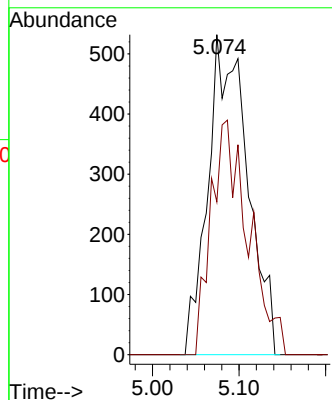
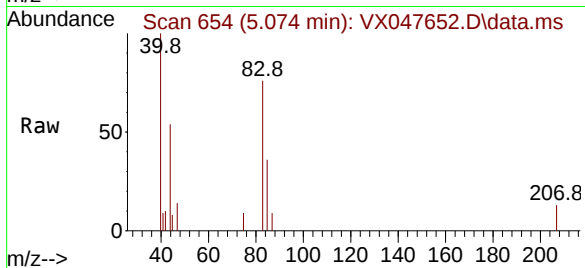
RE117D1-20250910

Tgt Ion: 83 Resp: 1686

Ion Ratio Lower Upper

83 100

85 47.7 51.8 77.6#



#31

Cyclohexane

Concen: 1.058 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

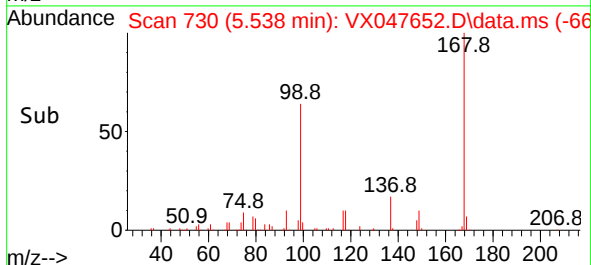
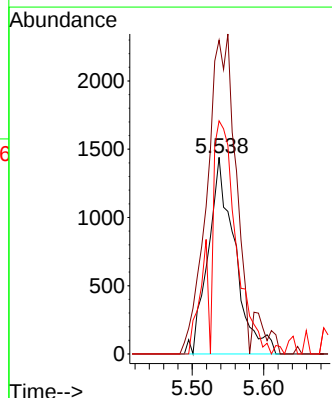
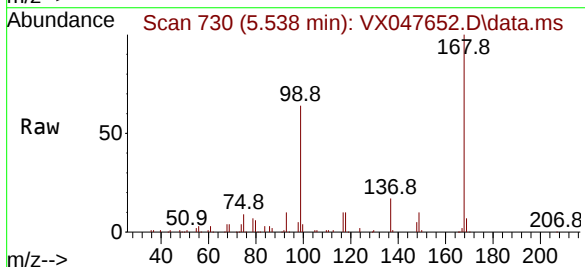
Tgt Ion: 56 Resp: 3741

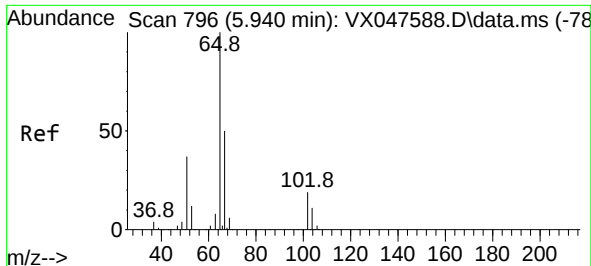
Ion Ratio Lower Upper

56 100

69 154.1 23.8 35.8#

84 114.6 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 60.467 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Instrument :

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ClientSampleId :

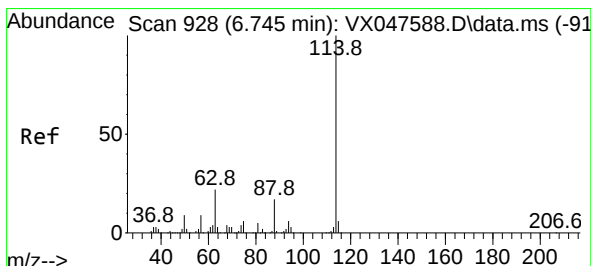
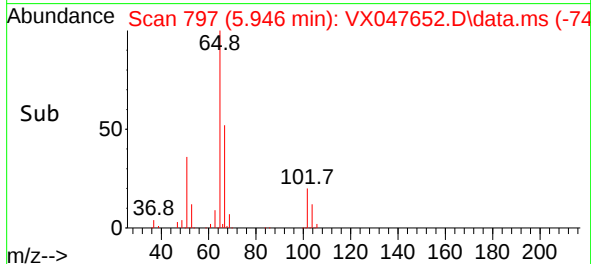
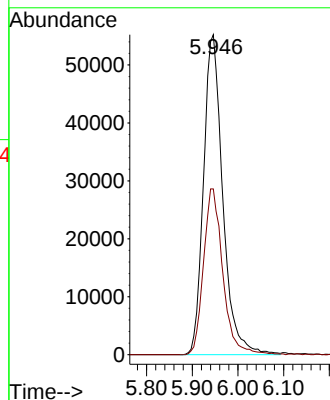
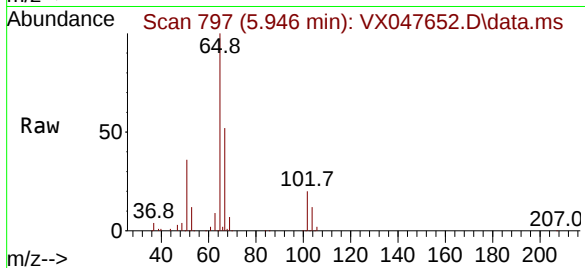
RE117D1-20250910

Tgt Ion: 65 Resp: 161813

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

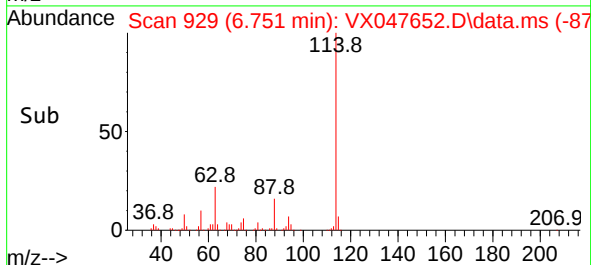
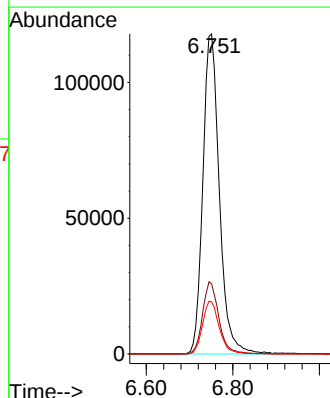
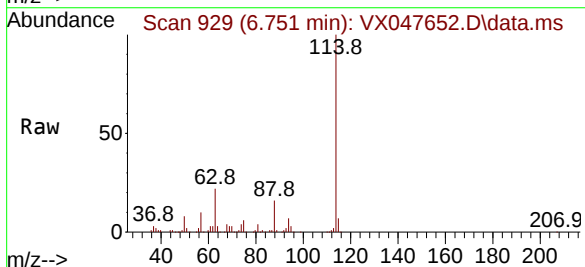
Tgt Ion: 114 Resp: 311795

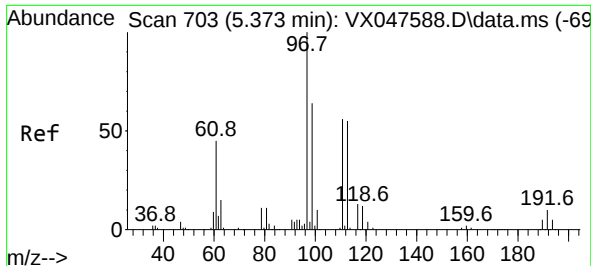
Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.0

88 16.3 0.0 34.2





#35

Dibromofluoromethane

Concen: 57.189 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047652.D

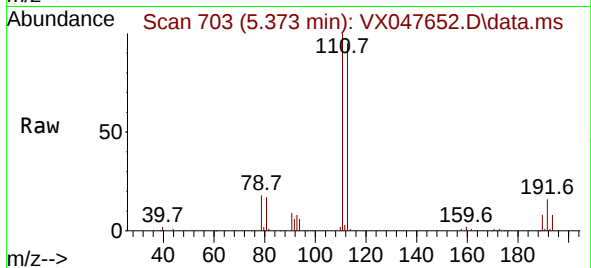
Acq: 18 Sep 2025 19:11

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20250910



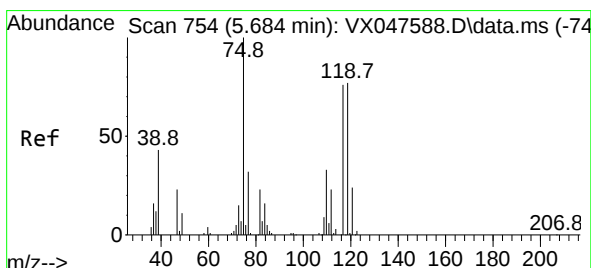
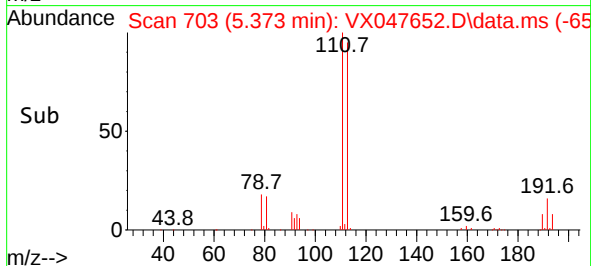
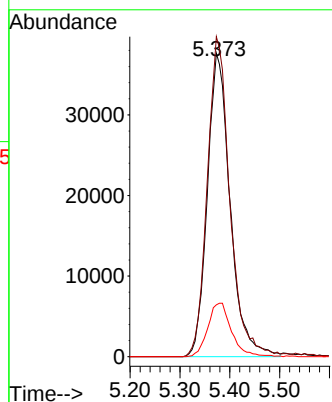
Tgt Ion:113 Resp: 119586

Ion Ratio Lower Upper

113 100

111 104.7 80.9 121.3

192 18.3 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.680 ug/l

RT: 5.538 min Scan# 730

Delta R.T. -0.146 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

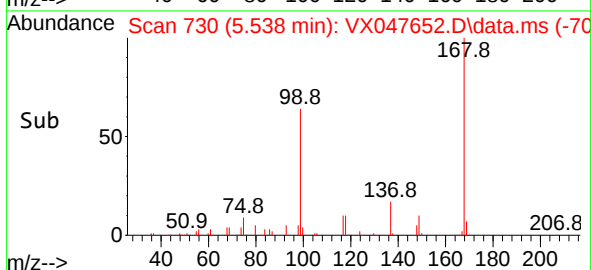
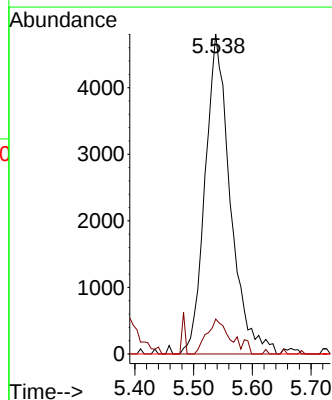
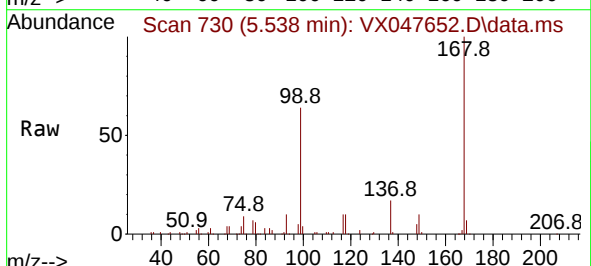
Tgt Ion: 75 Resp: 14300

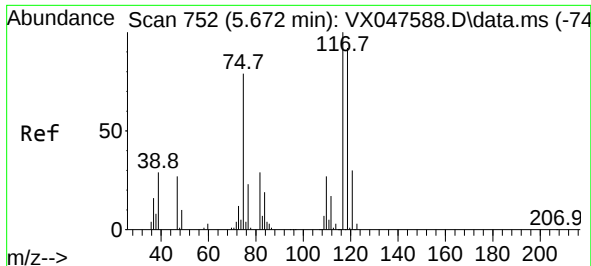
Ion Ratio Lower Upper

75 100

110 9.4 16.7 50.1#

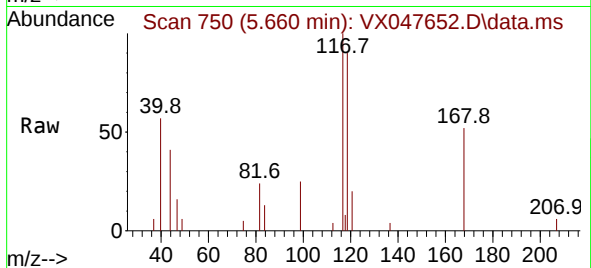
77 0.0 24.3 36.5#



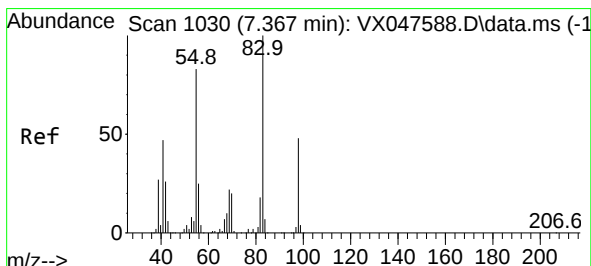
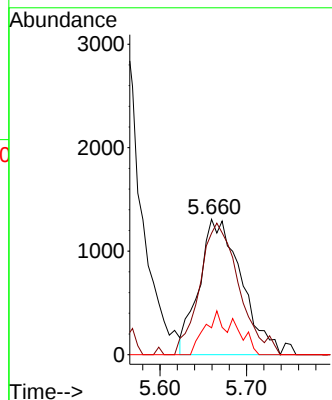
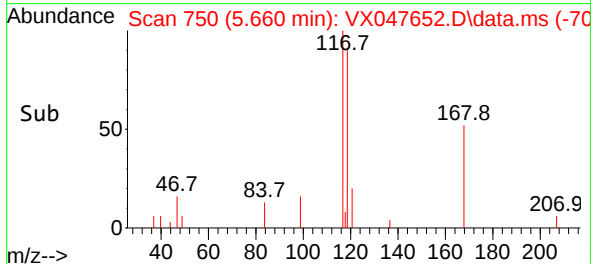


#38
Carbon Tetrachloride
Concen: 1.329 ug/l
RT: 5.660 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

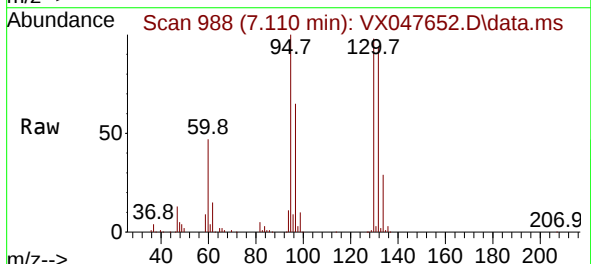
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910



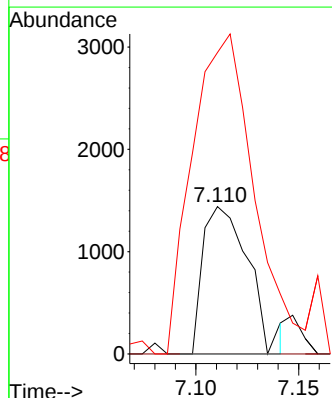
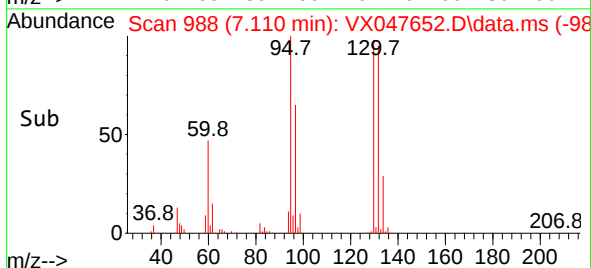
Tgt Ion:117 Resp: 4412
Ion Ratio Lower Upper
117 100
119 89.8 73.4 110.2
121 19.9 23.8 35.6#

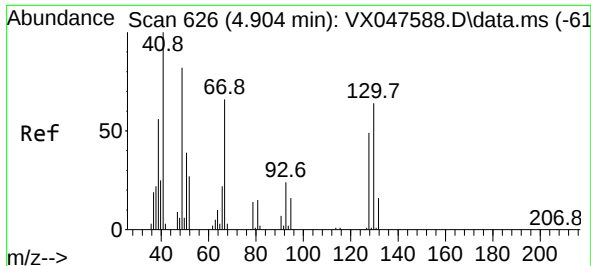


#39
Methylcyclohexane
Concen: 0.647 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.256 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11



Tgt Ion: 83 Resp: 2243
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 290.9 38.1 57.1#

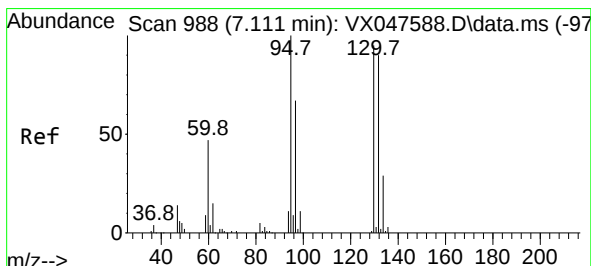
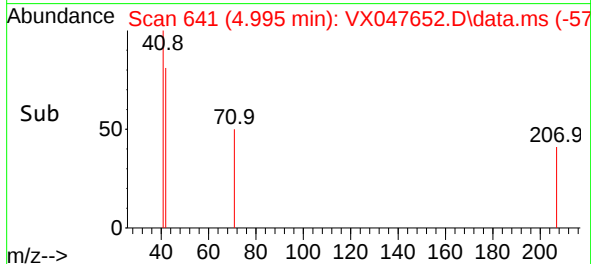
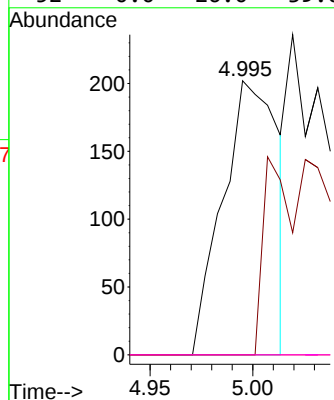
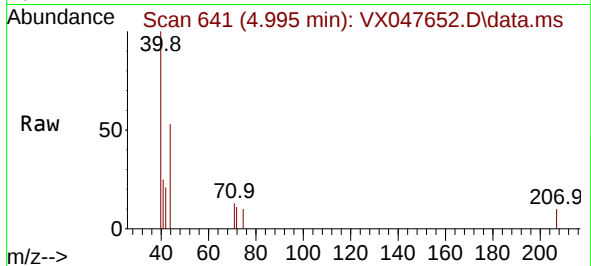




#41
Methacrylonitrile
Concen: 0.223 ug/l
RT: 4.995 min Scan# 641
Delta R.T. 0.091 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

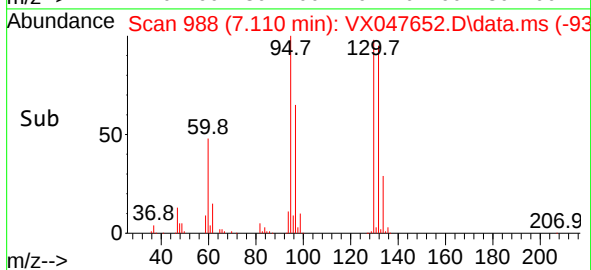
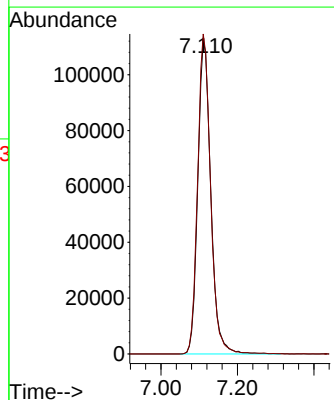
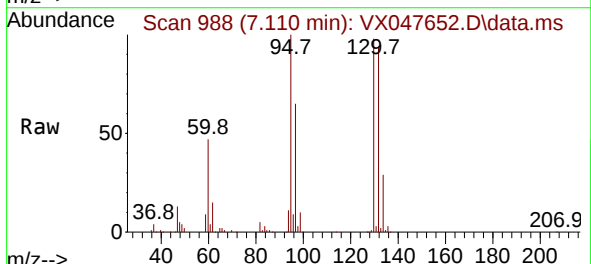
Instrument :
MSVOA_X
ClientSampleId :
RE117D1-20250910

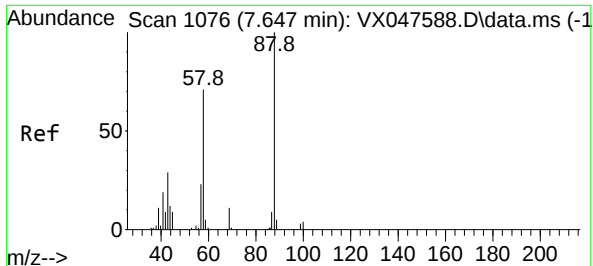
Tgt Ion:	41	Resp:	377
Ion	Ratio	Lower	Upper
41	100		
39	35.3	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#44
Trichloroethene
Concen: 118.014 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047652.D
Acq: 18 Sep 2025 19:11

Tgt Ion:	130	Resp:	264786
Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	210.8





#49

1,4-Dioxane

Concen: 0.889 ug/l

RT: 7.671 min Scan# 1076

Delta R.T. 0.024 min

Lab File: VX047652.D

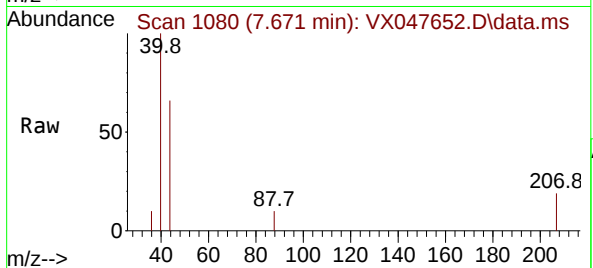
Acq: 18 Sep 2025 19:11

Instrument :

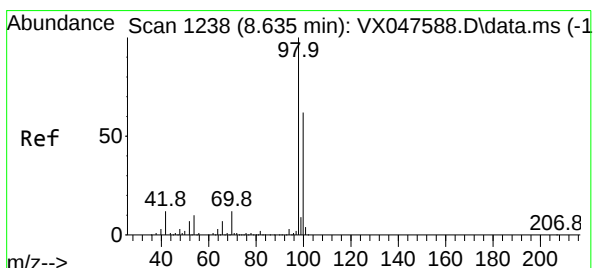
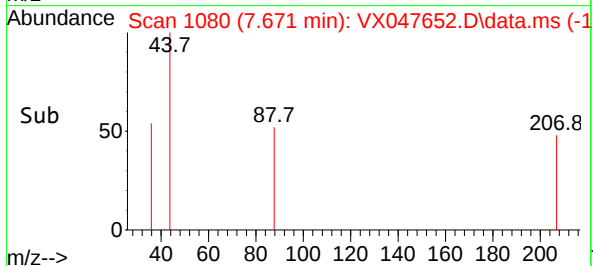
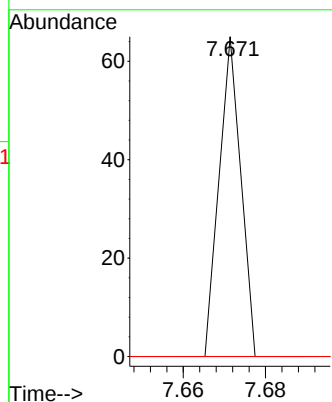
MSVOA_X

ClientSampleId :

RE117D1-20250910



Tgt Ion:	88	Resp:	24
Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.2	45.2#
58	0.0	59.5	89.3#



#50

Toluene-d8

Concen: 58.049 ug/l

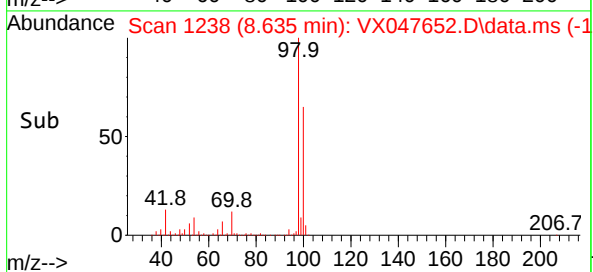
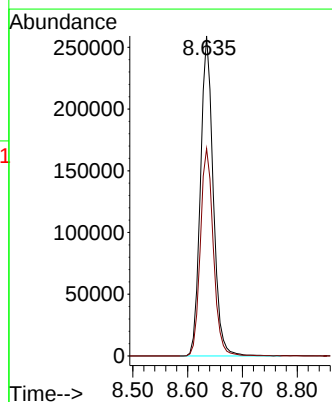
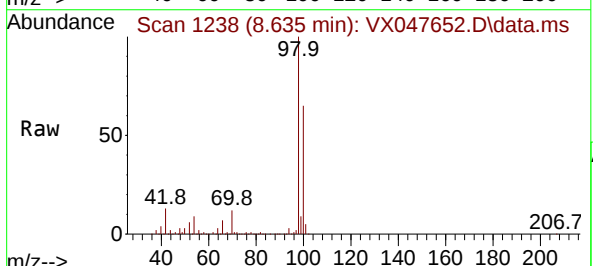
RT: 8.635 min Scan# 1238

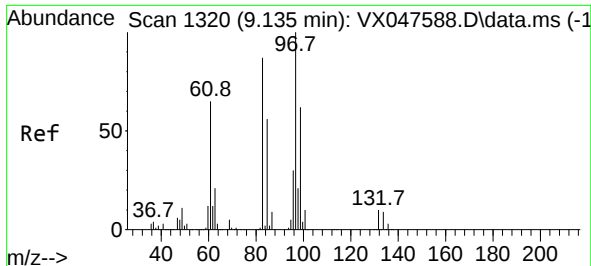
Delta R.T. -0.000 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Tgt Ion:	98	Resp:	420015
Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.0	79.4





#55

1,1,2-Trichloroethane

Concen: 0.485 ug/l

RT: 9.141 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20250910

Tgt Ion: 97 Resp: 1070

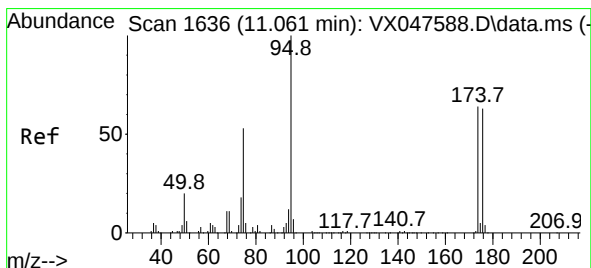
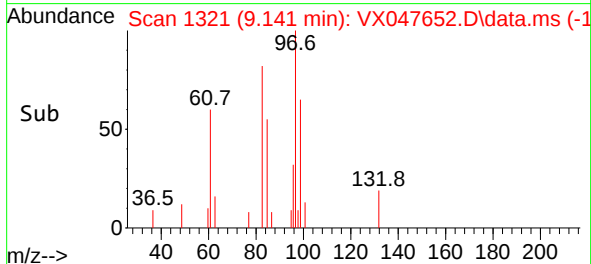
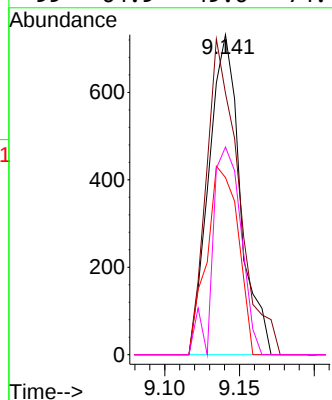
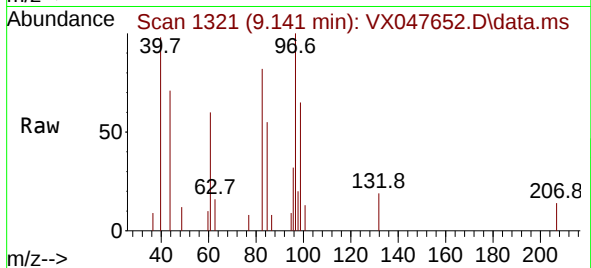
Ion Ratio Lower Upper

97 100

83 81.7 69.6 104.4

85 55.3 45.0 67.6

99 64.9 49.6 74.4



#62

4-Bromofluorobenzene

Concen: 58.246 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

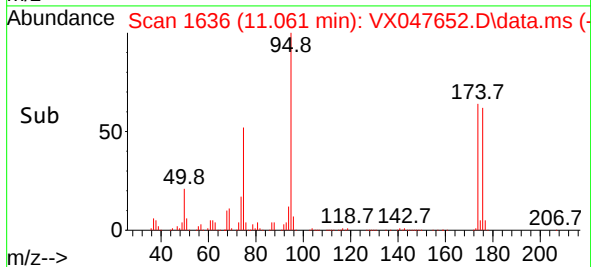
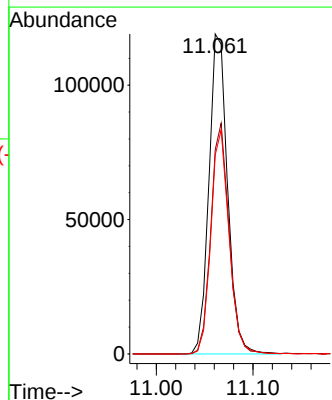
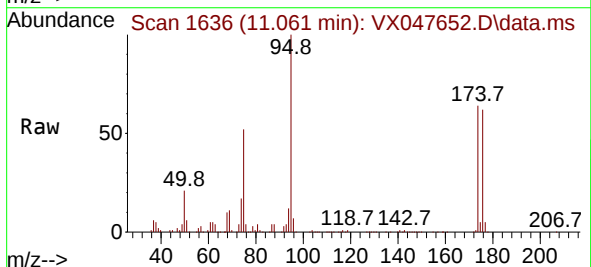
Tgt Ion: 95 Resp: 159945

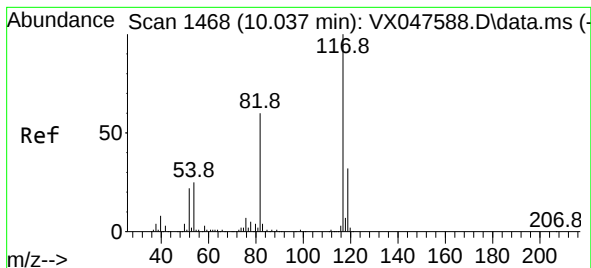
Ion Ratio Lower Upper

95 100

174 70.3 0.0 141.6

176 67.8 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Instrument :

MSVOA_X

ClientSampleId :

RE117D1-20250910

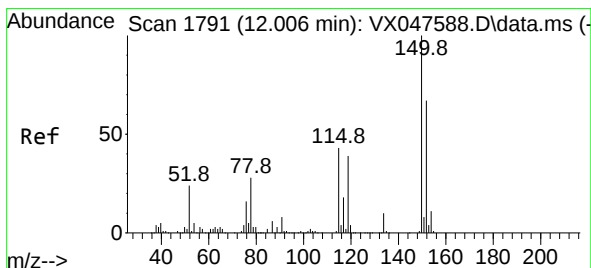
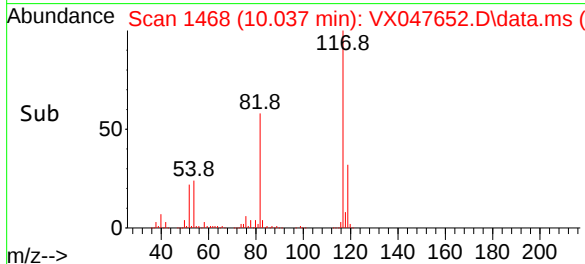
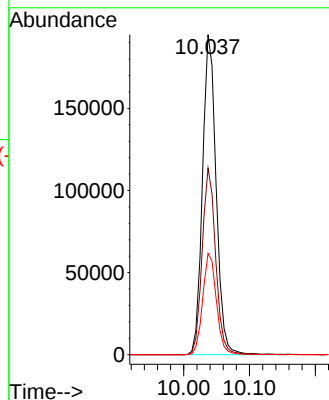
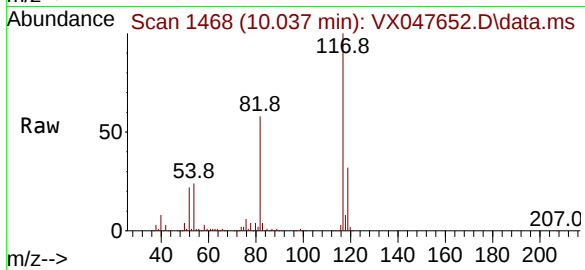
Tgt Ion:117 Resp: 281122

Ion Ratio Lower Upper

117 100

82 58.2 47.8 71.6

119 31.6 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

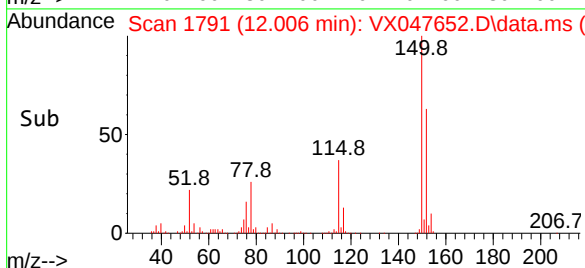
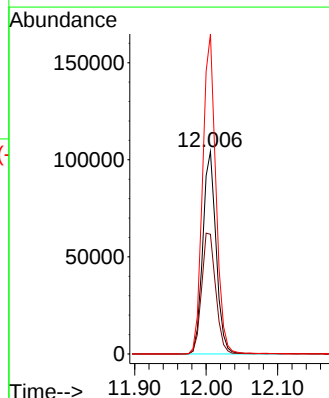
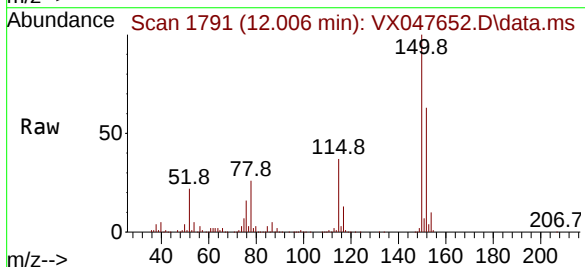
Tgt Ion:152 Resp: 134866

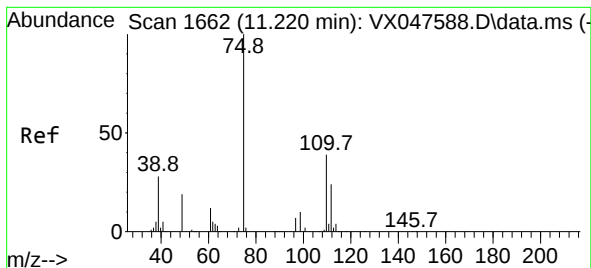
Ion Ratio Lower Upper

152 100

115 63.0 44.9 134.5

150 157.5 0.0 352.0





#76

1,2,3-Trichloropropane

Concen: 30.121 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Instrument :

MSVOA_X

ClientSampleId :

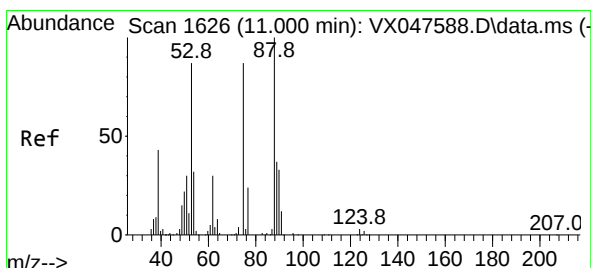
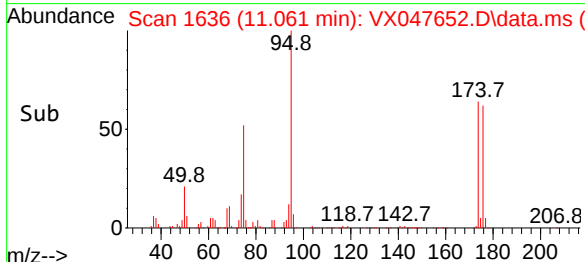
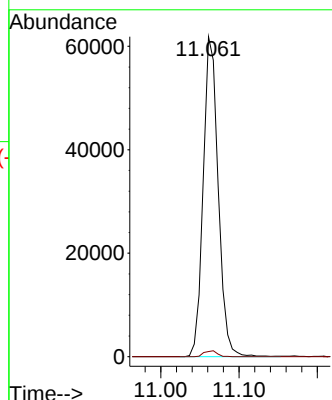
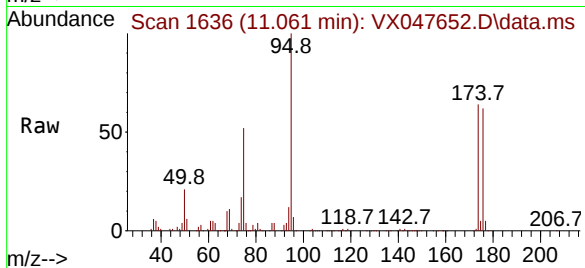
RE117D1-20250910

Tgt Ion: 75 Resp: 82249

Ion Ratio Lower Upper

75 100

77 1.6 18.8 56.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.813 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX047652.D

Acq: 18 Sep 2025 19:11

Tgt Ion: 75 Resp: 82249

Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

89 0.0 36.3 54.5#

