

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090225\
 Data File : VX047577.D
 Acq On : 02 Sep 2025 12:42
 Operator : JC/MD
 Sample : Q2995-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RT5427

Quant Time: Sep 03 02:15:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 29 02:31:18 2025
 Response via : Initial Calibration

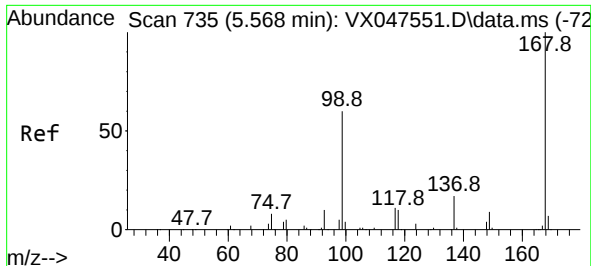
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.568	168	208032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	425388	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	429337	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	221415	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	177256	55.485	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.980%			
35) Dibromofluoromethane	5.397	113	148800	50.966	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.940%			
50) Toluene-d8	8.653	98	529166	51.708	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.420%			
62) 4-Bromofluorobenzene	11.079	95	222074	57.763	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 115.520%			
Target Compounds					Qvalue	
5) Bromomethane	1.648	94	569	0.450	ug/l	82
6) Chloroethane	1.733	64	810	0.436	ug/l #	40
10) Methyl Iodide	2.483	142	2924	0.713	ug/l #	75
11) Tert butyl alcohol	2.953	59	2551	8.688	ug/l #	73
13) Acrolein	2.270	56	195	0.331	ug/l #	36
16) Acetone	2.392	43	28308	22.374	ug/l	95
17) Carbon Disulfide	2.538	76	3689	0.472	ug/l	100
18) Methyl Acetate	2.721	43	22876	7.334	ug/l	97
20) Methylene Chloride	2.806	84	10895	3.384	ug/l #	90
25) 2-Butanone	4.593	43	14336	8.610	ug/l #	89
31) Cyclohexane	5.568	56	4432	0.987	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	17010	4.094	ug/l #	52
37) Ethyl Acetate	4.751	43	13066	3.190	ug/l #	96
38) Carbon Tetrachloride	5.562	117	21700	4.707	ug/l #	16
43) Isopropyl Acetate	6.361	43	9120	1.386	ug/l #	75
48) Methyl methacrylate	7.799	41	66856	19.750	ug/l #	45
49) 1,4-Dioxane	7.805	88	23	0.687	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	112617	28.965	ug/l #	50
54) cis-1,3-Dichloropropene	8.549	75	50689	10.094	ug/l #	62
57) 1,3-Dichloropropane	9.482	76	2517	0.461	ug/l #	42
58) 2-Chloroethyl Vinyl ether	8.257	63	20	Below Cal	#	47
59) 2-Hexanone	9.445	43	5522	2.079	ug/l	87
74) N-amyl acetate	10.780	43	2271	0.338	ug/l #	50
76) 1,2,3-Trichloropropane	11.079	75	114494	28.973	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	114494	102.501	ug/l #	7
89) n-Butylbenzene	12.335	91	2553	0.204	ug/l	97
93) 1,2,4-Trichlorobenzene	13.597	180	1152	0.248	ug/l	89
94) Hexachlorobutadiene	13.719	225	1330	0.824	ug/l	98
96) 1,2,3-Trichlorobenzene	13.957	180	892	0.205	ug/l	96

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

Quant Time: Sep 03 02:15:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082825W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 29 02:31:18 2025
Response via : Initial Calibration

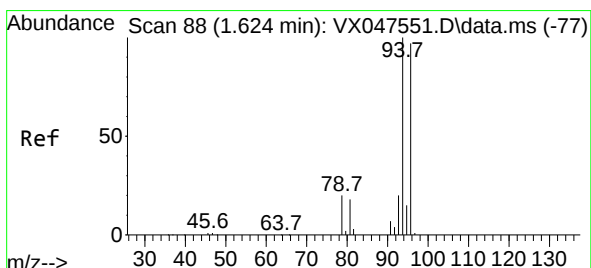
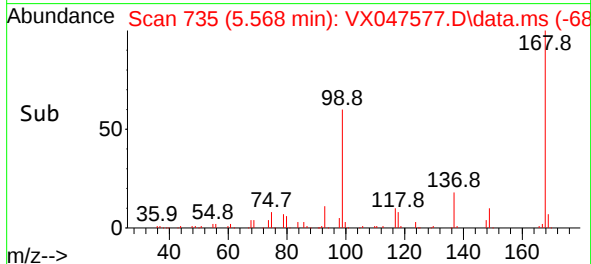
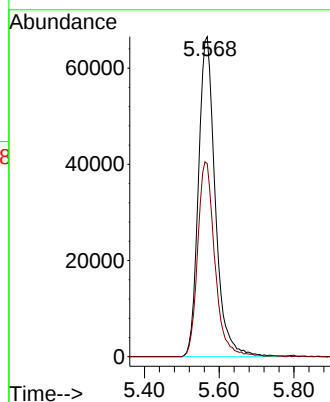
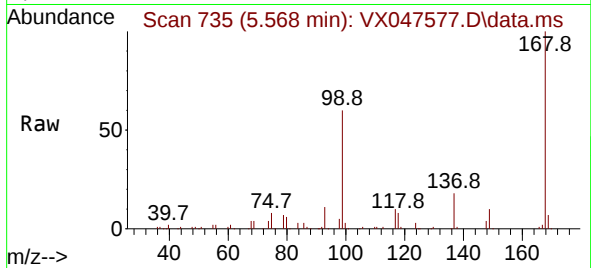




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

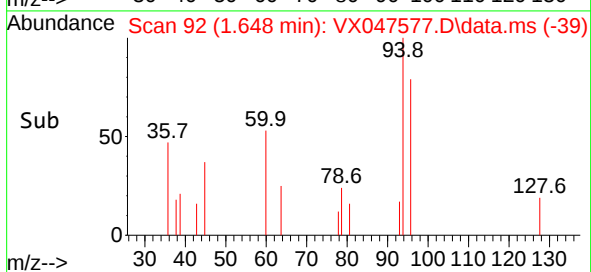
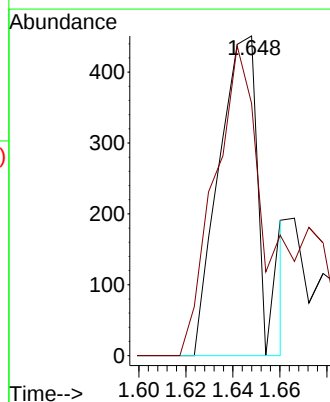
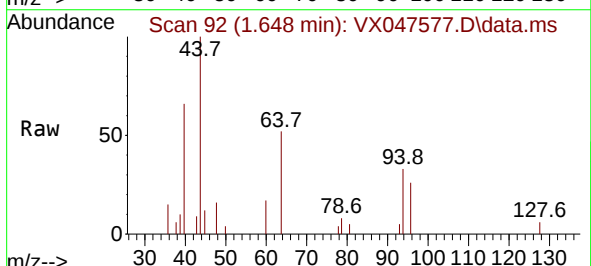
Instrument :
MSVOA_X
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RT5427

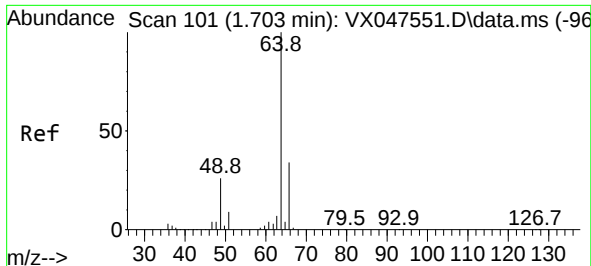
Tgt Ion:168 Resp: 208032
Ion Ratio Lower Upper
168 100
99 60.4 48.9 73.3



#5
Bromomethane
Concen: 0.450 ug/l
RT: 1.648 min Scan# 92
Delta R.T. 0.024 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 94 Resp: 569
Ion Ratio Lower Upper
94 100
96 78.9 77.7 116.5

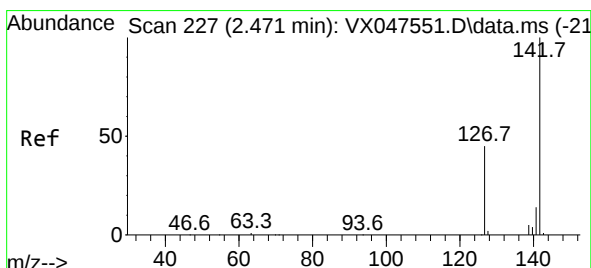
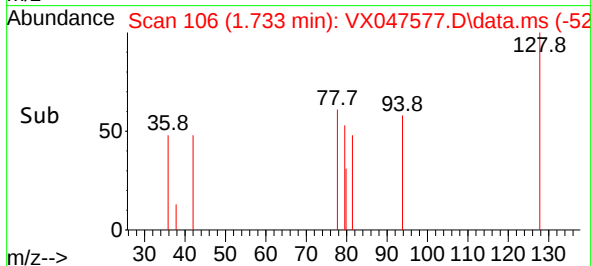
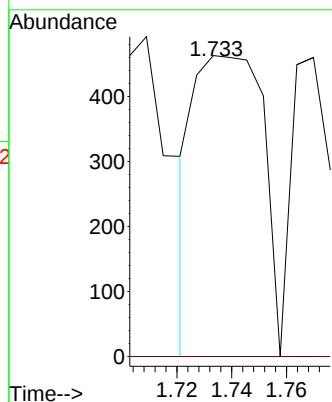
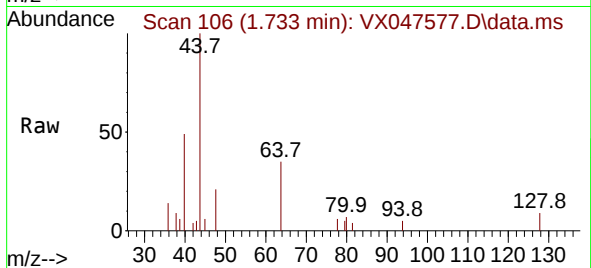




#6
Chloroethane
Concen: 0.436 ug/l
RT: 1.733 min Scan# 101
Delta R.T. 0.030 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

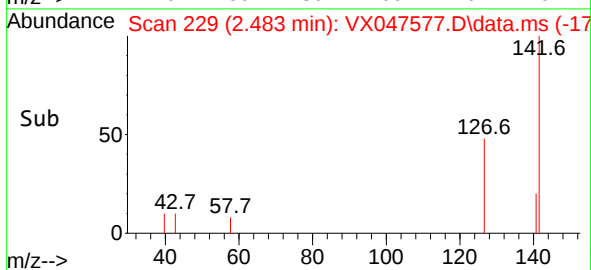
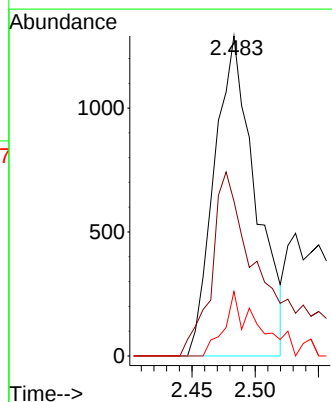
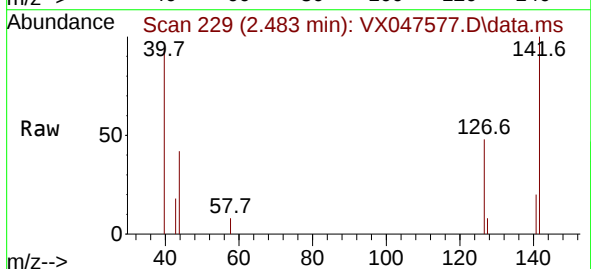
Instrument :
MSVOA_X
ClientSampleId :
RT5427

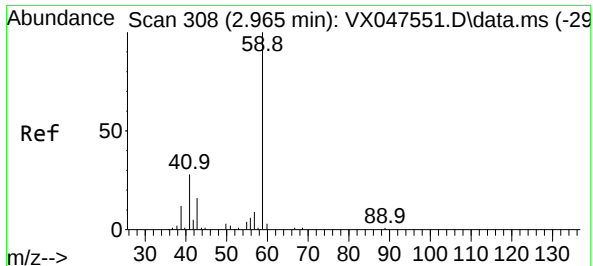
Tgt Ion: 64 Resp: 810
Ion Ratio Lower Upper
64 100
66 0.0 27.4 41.2#



#10
Methyl Iodide
Concen: 0.713 ug/l
RT: 2.483 min Scan# 229
Delta R.T. 0.012 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 142 Resp: 2924
Ion Ratio Lower Upper
142 100
127 67.3 37.6 56.4#
141 16.1 10.6 16.0#





#11

Tert butyl alcohol

Concen: 8.688 ug/l

RT: 2.953 min Scan# 306

Delta R.T. -0.012 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

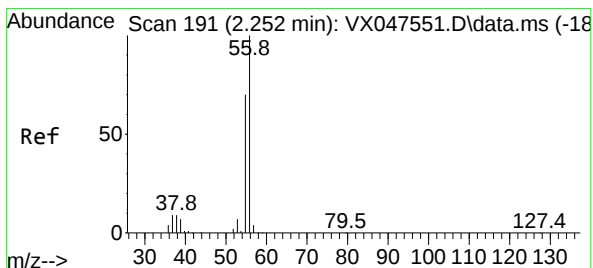
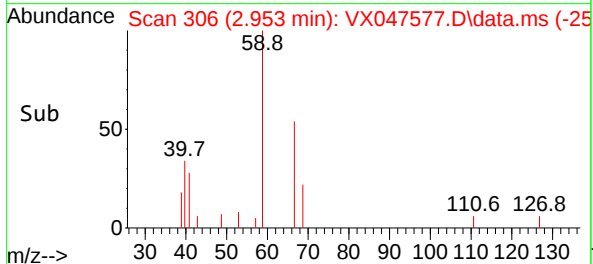
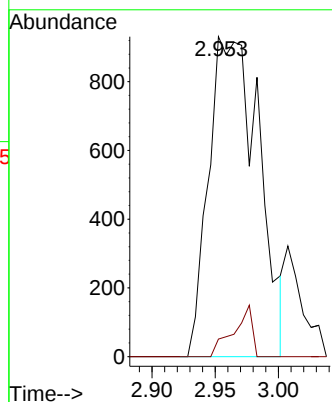
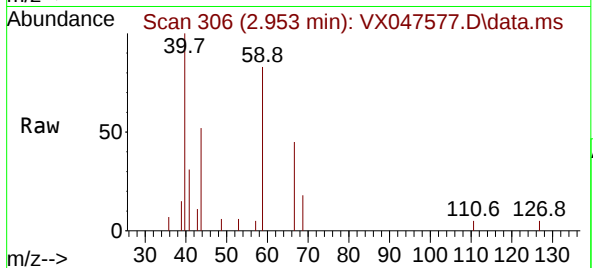
RT5427

Tgt Ion: 59 Resp: 2551

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



#13

Acrolein

Concen: 0.331 ug/l

RT: 2.270 min Scan# 194

Delta R.T. 0.018 min

Lab File: VX047577.D

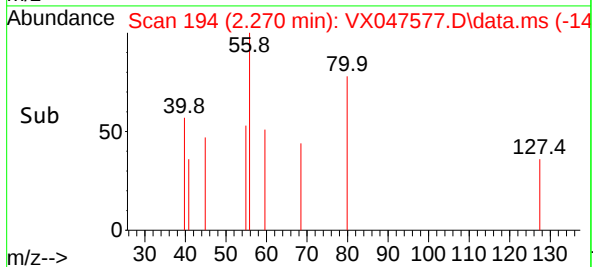
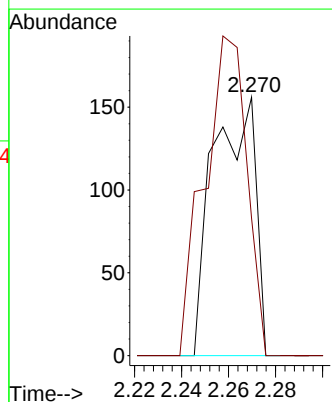
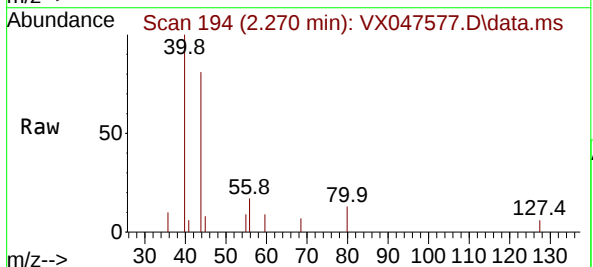
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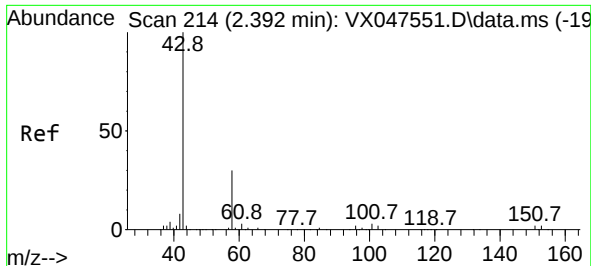
Tgt Ion: 56 Resp: 195

Ion Ratio Lower Upper

56 100

55 124.1 57.0 85.6#

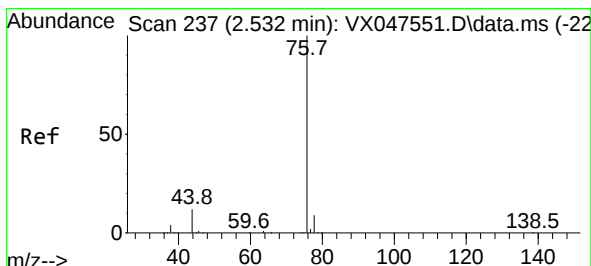
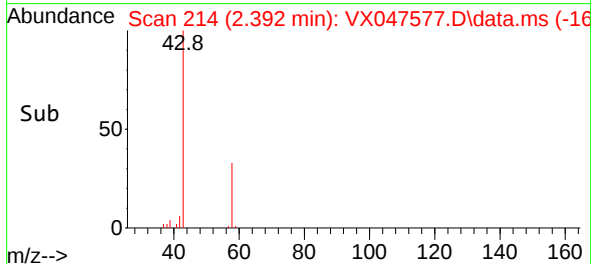
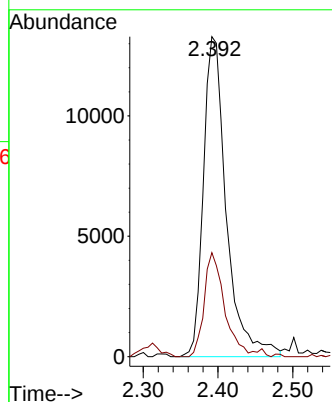
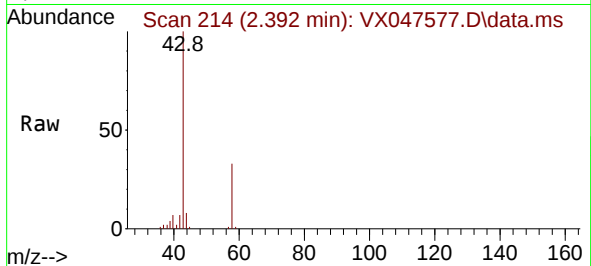




#16
Acetone
Concen: 22.374 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

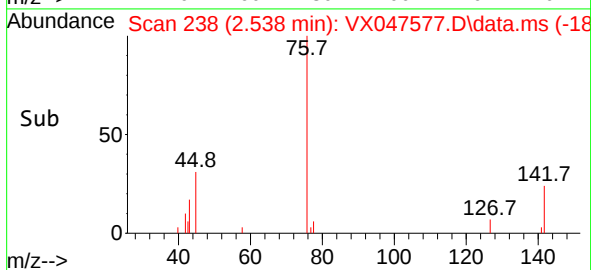
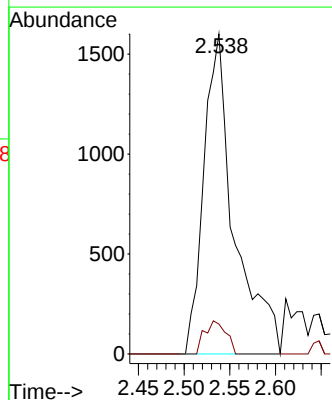
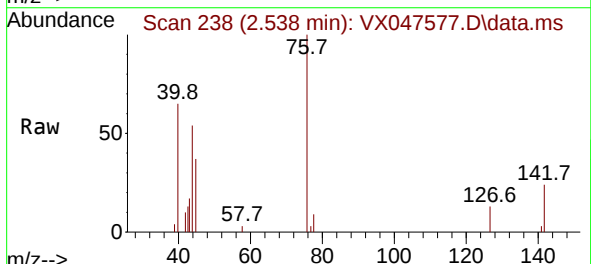
Instrument :
MSVOA_X
ClientSampleId :
RT5427

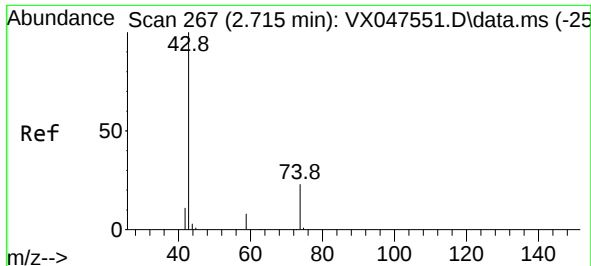
Tgt Ion: 43 Resp: 28308
Ion Ratio Lower Upper
43 100
58 33.1 24.2 36.2



#17
Carbon Disulfide
Concen: 0.472 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.006 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 76 Resp: 3689
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0

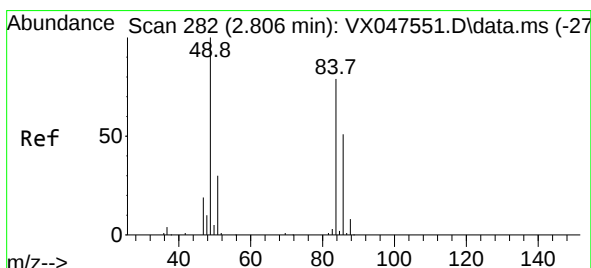
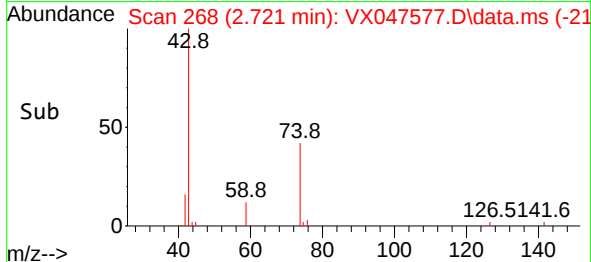
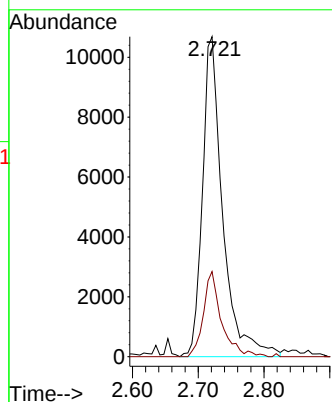
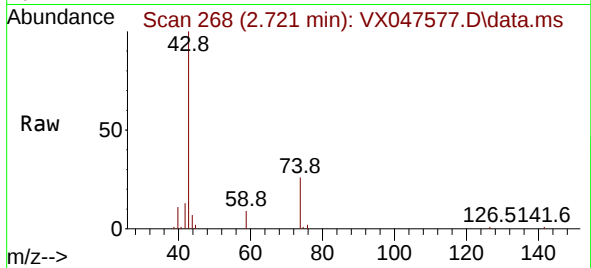




#18
Methyl Acetate
Concen: 7.334 ug/l
RT: 2.721 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

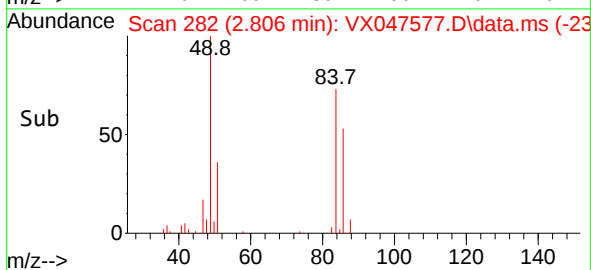
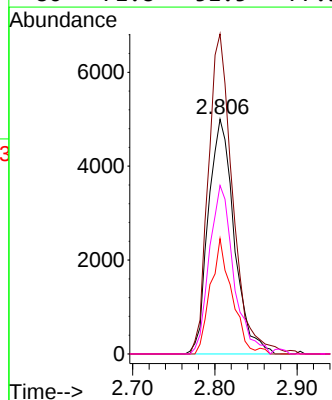
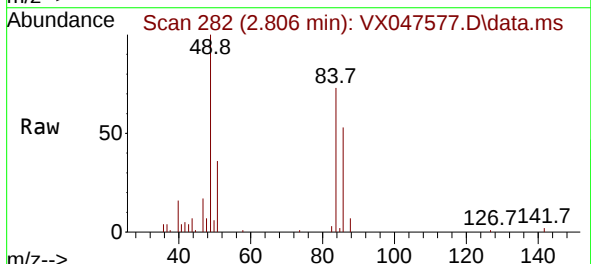
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MSVOA_X
ClientSampleId :
RT5427

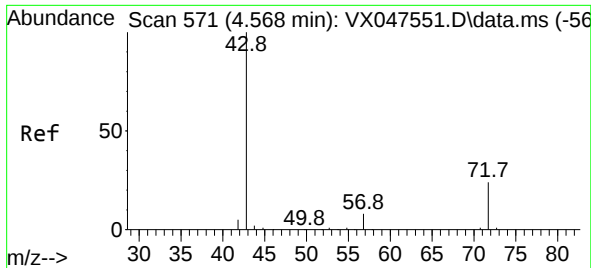
Tgt Ion: 43 Resp: 22876
Ion Ratio Lower Upper
43 100
74 23.8 17.8 26.8



#20
Methylene Chloride
Concen: 3.384 ug/l
RT: 2.806 min Scan# 282
Delta R.T. -0.000 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 84 Resp: 10895
Ion Ratio Lower Upper
84 100
49 136.4 101.4 152.2
51 49.2 30.6 46.0#
86 71.8 51.5 77.3

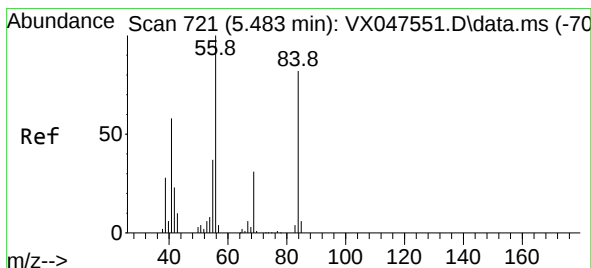
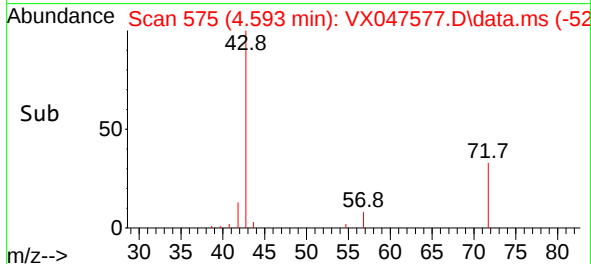
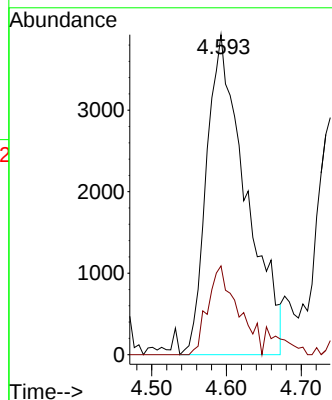
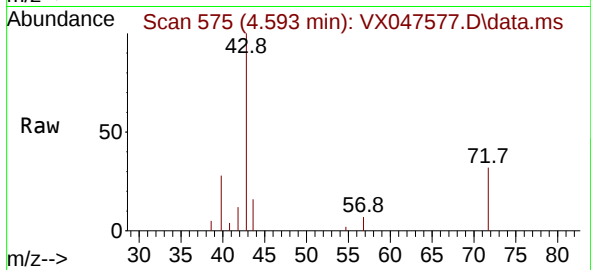




#25
2-Butanone
Concen: 8.610 ug/l
RT: 4.593 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

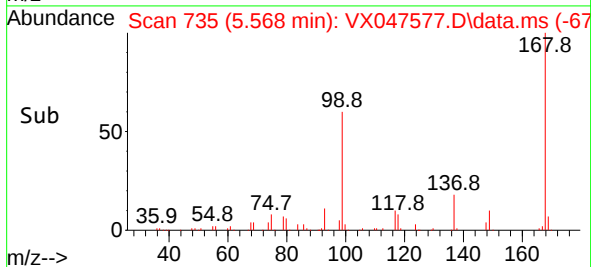
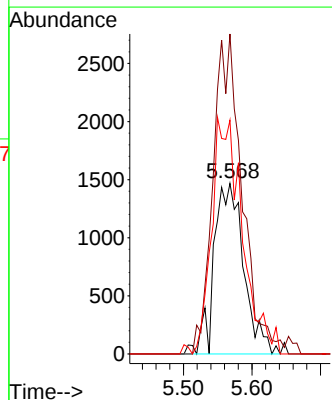
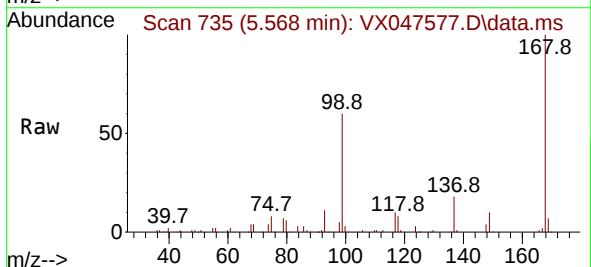
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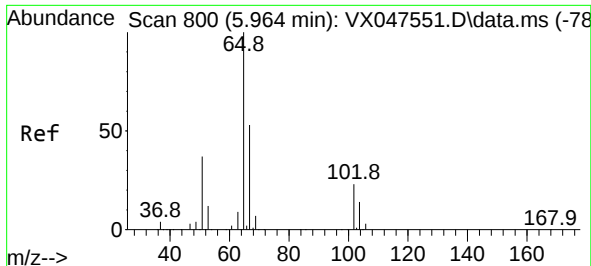
Tgt Ion: 43 Resp: 14336
Ion Ratio Lower Upper
43 100
72 29.9 19.5 29.3#



#31
Cyclohexane
Concen: 0.987 ug/l
RT: 5.568 min Scan# 735
Delta R.T. 0.085 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 56 Resp: 4432
Ion Ratio Lower Upper
56 100
69 187.6 24.2 36.2#
84 137.1 65.5 98.3#





#33

1,2-Dichloroethane-d4

Concen: 55.485 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.000 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

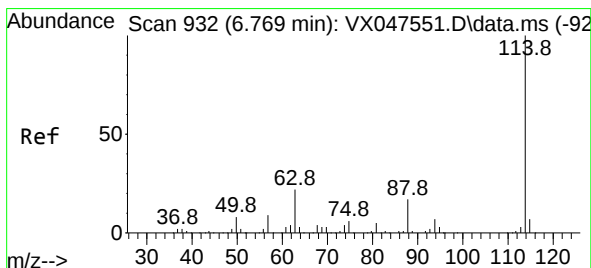
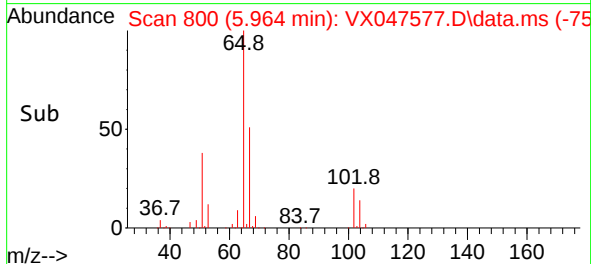
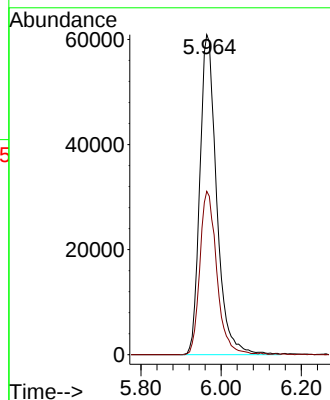
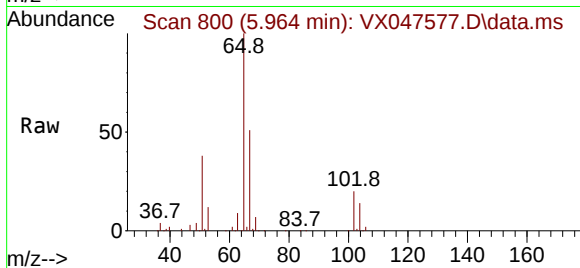
RT5427

Tgt Ion: 65 Resp: 177256

Ion Ratio Lower Upper

65 100

67 51.5 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: VX047577.D

Acq: 02 Sep 2025 12:42

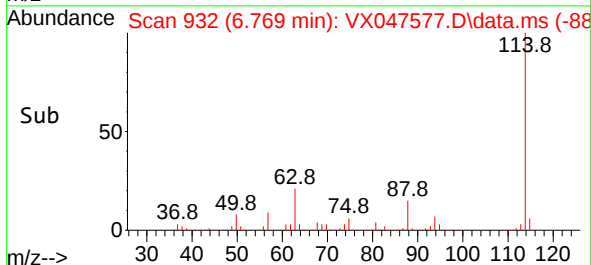
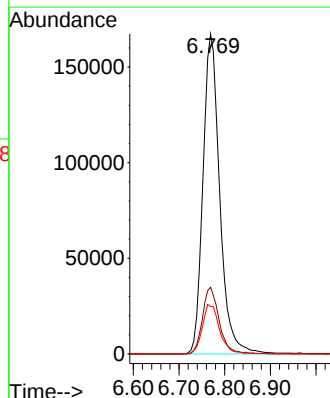
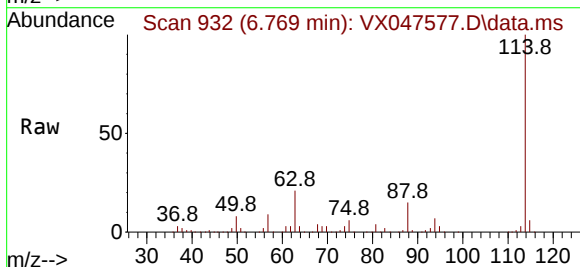
Tgt Ion: 114 Resp: 425388

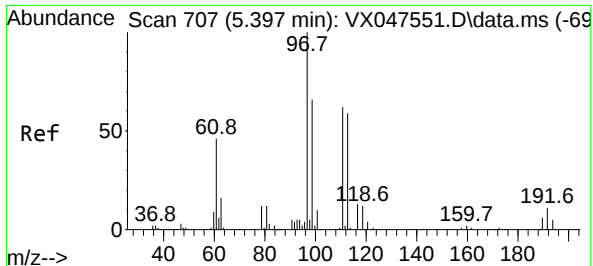
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.6

88 14.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.966 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

RT5427

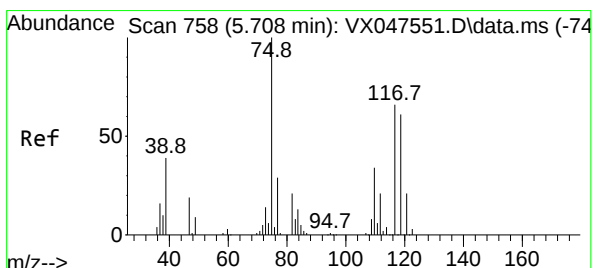
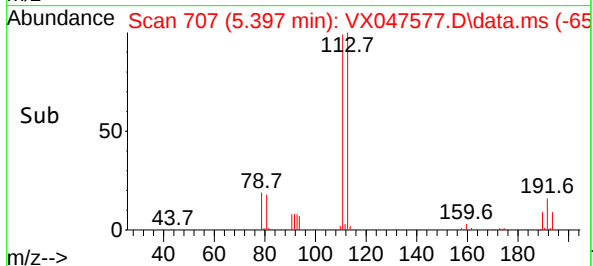
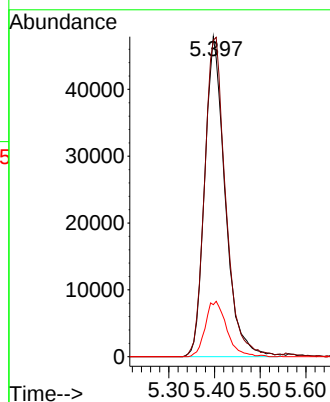
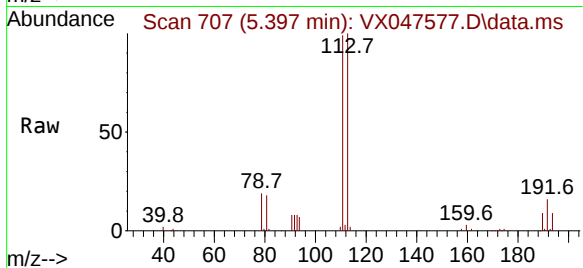
Tgt Ion:113 Resp: 148800

Ion Ratio Lower Upper

113 100

111 102.6 81.2 121.8

192 18.0 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.094 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.147 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

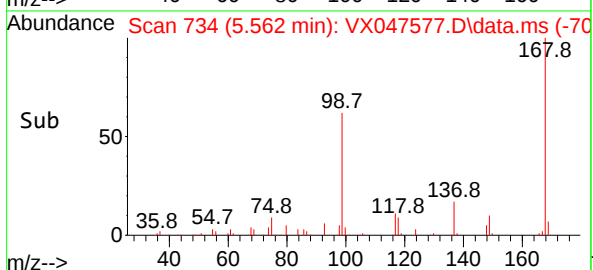
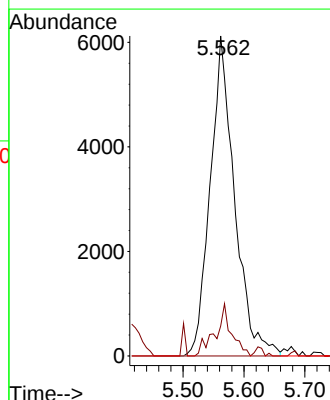
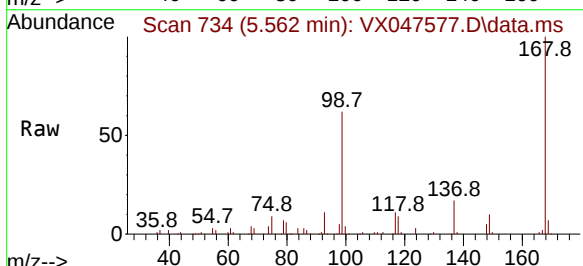
Tgt Ion: 75 Resp: 17010

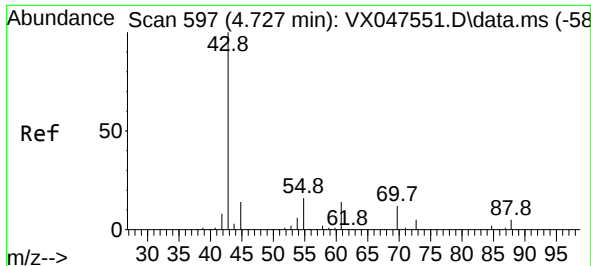
Ion Ratio Lower Upper

75 100

110 10.8 17.1 51.3#

77 0.0 25.0 37.6#





#37

Ethyl Acetate

Concen: 3.190 ug/l

RT: 4.751 min Scan# 601

Delta R.T. 0.024 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

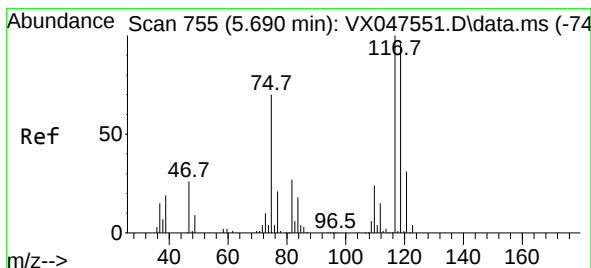
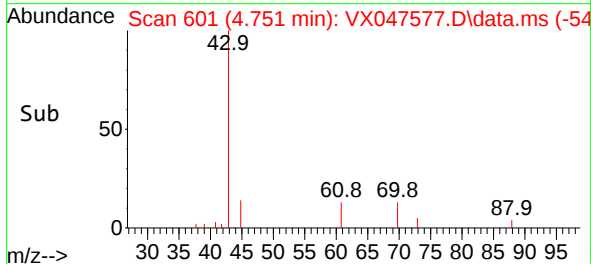
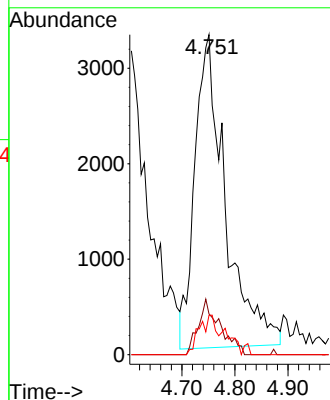
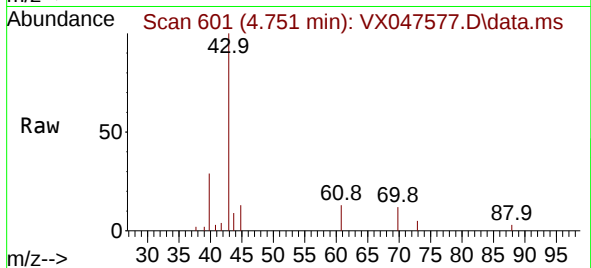
Instrument :

MSVOA_X

ClientSampleId :

RT5427

Tgt Ion:	43	Resp:	13066
Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.2	15.2
70	7.0	8.2	12.4



#38

Carbon Tetrachloride

Concen: 4.707 ug/l

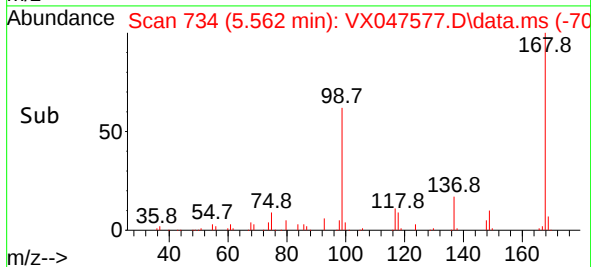
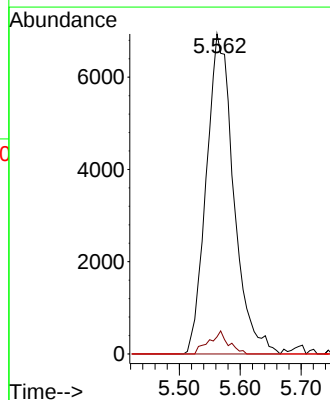
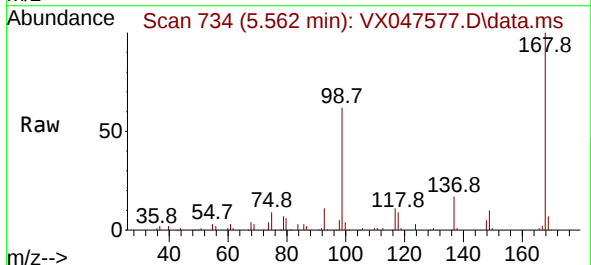
RT: 5.562 min Scan# 734

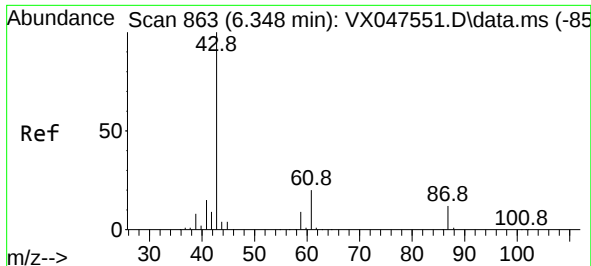
Delta R.T. -0.128 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Tgt Ion:	117	Resp:	21700
Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.4	114.6
121	0.0	24.9	37.3

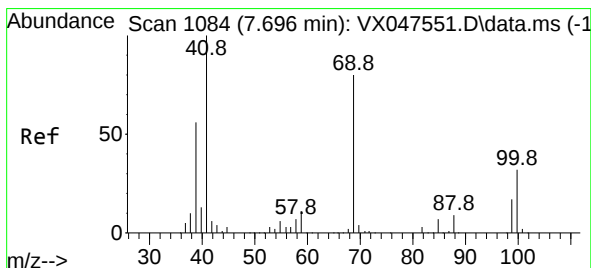
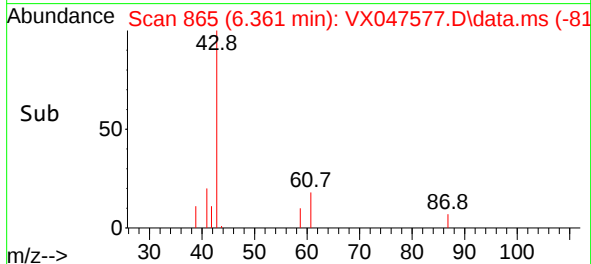
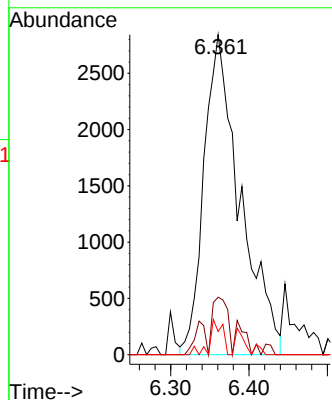
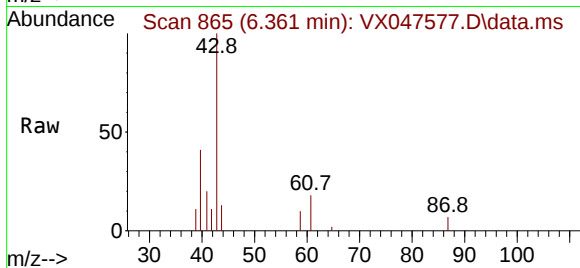




#43
Isopropyl Acetate
Concen: 1.386 ug/l
RT: 6.361 min Scan# 80
Delta R.T. 0.012 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

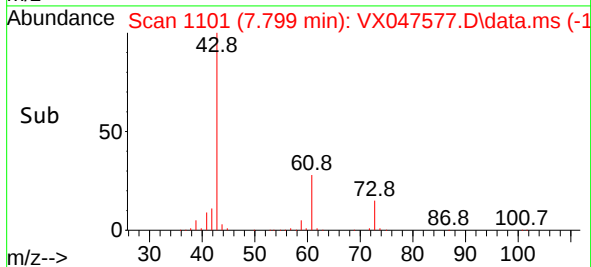
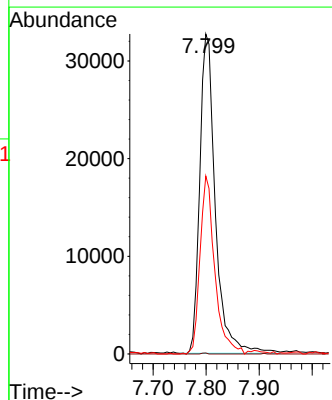
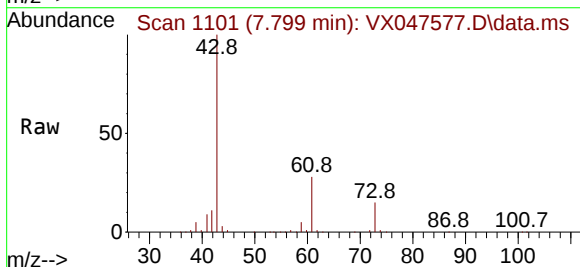
Instrument :
MSVOA_X
ClientSampleId :
RT5427

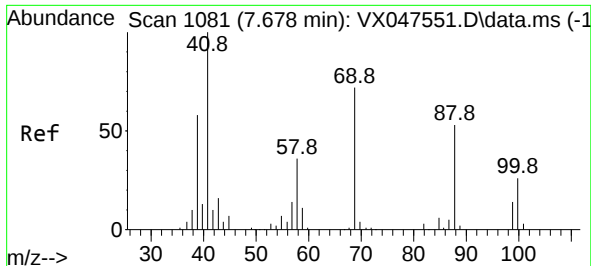
Tgt Ion: 43 Resp: 9120
Ion Ratio Lower Upper
43 100
61 7.5 15.4 23.2#
87 3.5 9.9 14.9#



#48
Methyl methacrylate
Concen: 19.750 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.103 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 41 Resp: 66856
Ion Ratio Lower Upper
41 100
69 0.1 63.4 95.2#
39 52.6 44.7 67.1





#49

1,4-Dioxane

Concen: 0.687 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. 0.128 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

RT5427

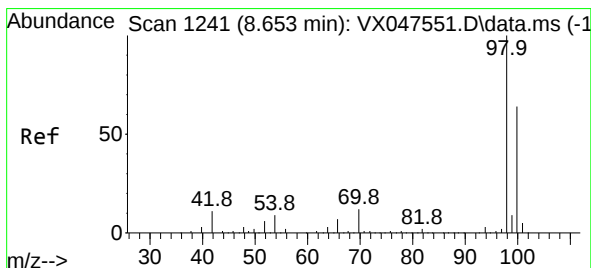
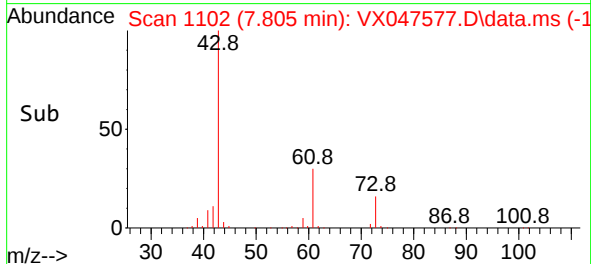
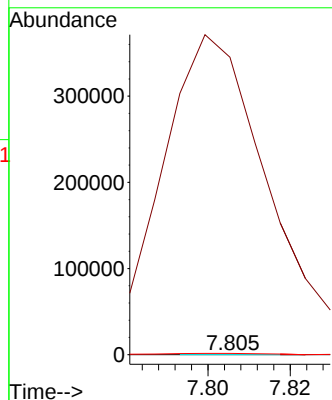
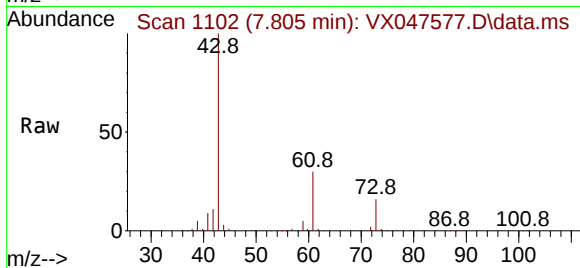
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 3123660.9 31.9 47.9#

58 13052.2 57.5 86.3#



#50

Toluene-d8

Concen: 51.708 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX047577.D

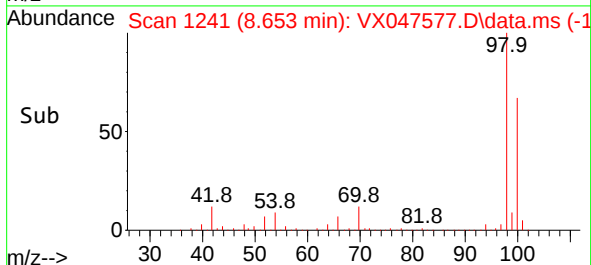
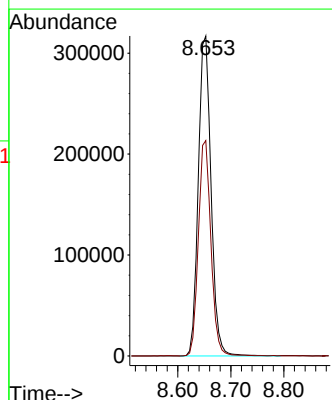
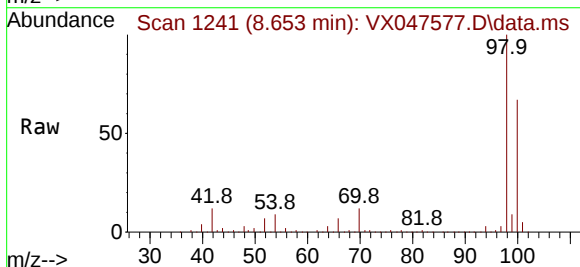
Acq: 02 Sep 2025 12:42

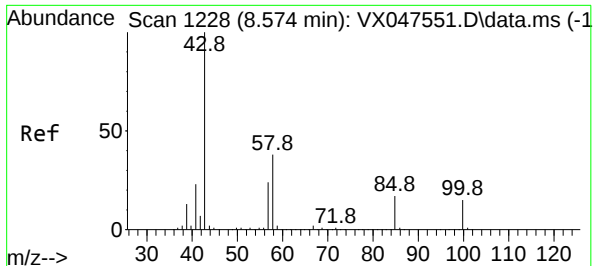
Tgt Ion: 98 Resp: 529166

Ion Ratio Lower Upper

98 100

100 66.3 53.5 80.3

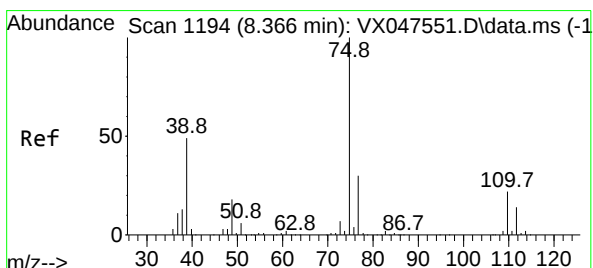
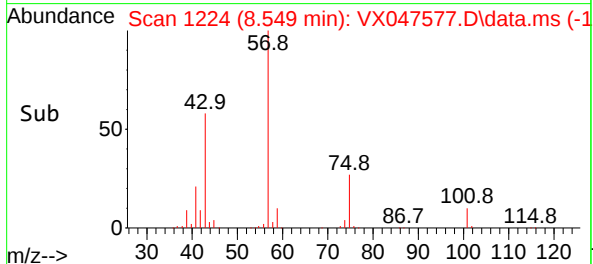
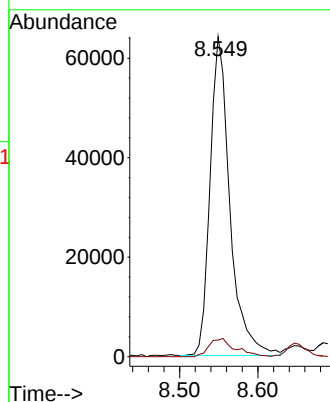
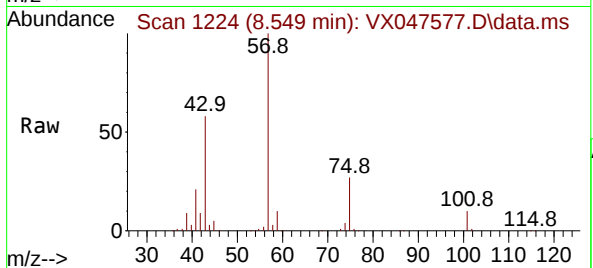




#51
4-Methyl-2-Pentanone
Concen: 28.965 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

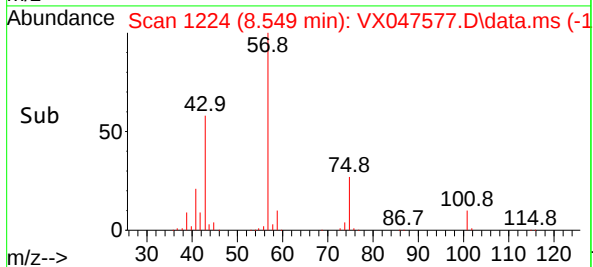
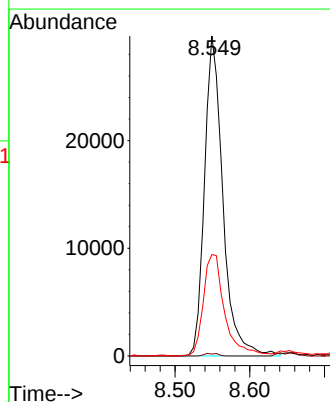
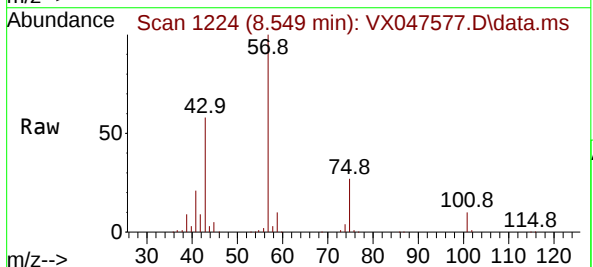
Instrument :
MSVOA_X
ClientSampleId :
RT5427

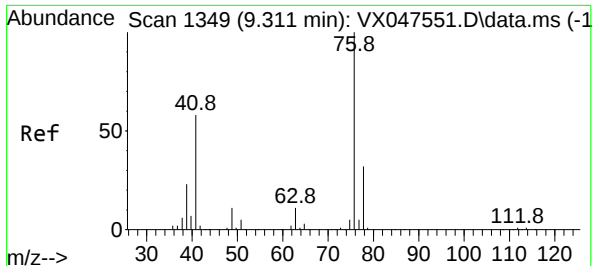
Tgt Ion: 43 Resp: 112617
Ion Ratio Lower Upper
43 100
58 7.6 30.4 45.6#



#54
cis-1,3-Dichloropropene
Concen: 10.094 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 75 Resp: 50689
Ion Ratio Lower Upper
75 100
77 0.6 24.3 36.5#
39 30.1 39.0 58.4#

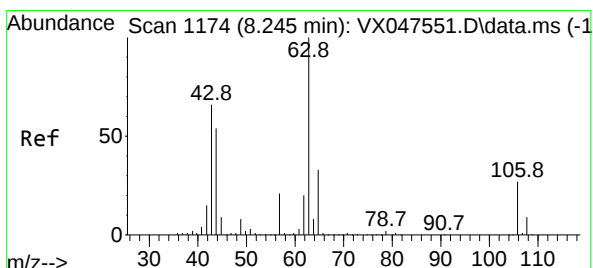
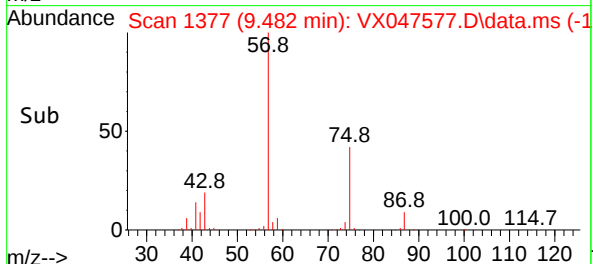
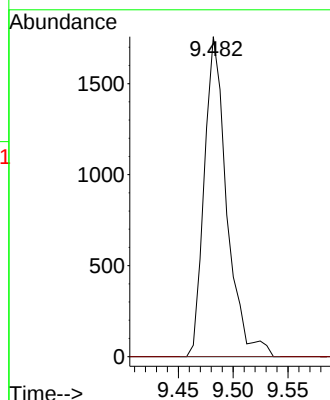
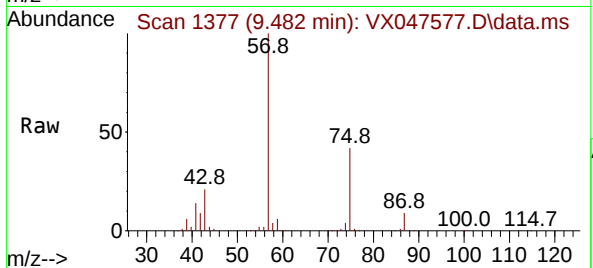




#57
1,3-Dichloropropane
Concen: 0.461 ug/l
RT: 9.482 min Scan# 1176
Delta R.T. 0.171 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

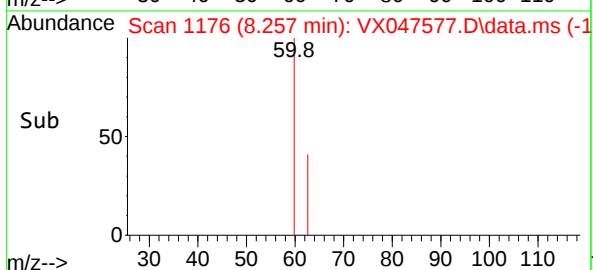
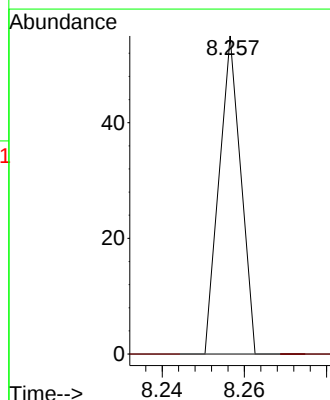
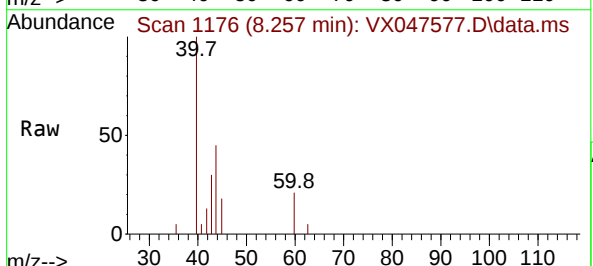
Instrument :
MSVOA_X
ClientSampleId :
RT5427

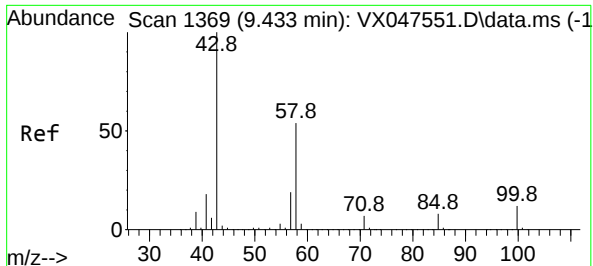
Tgt Ion: 76 Resp: 2517
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 8.257 min Scan# 1176
Delta R.T. 0.012 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 22.2 33.4#





#59

2-Hexanone

Concen: 2.079 ug/l

RT: 9.445 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

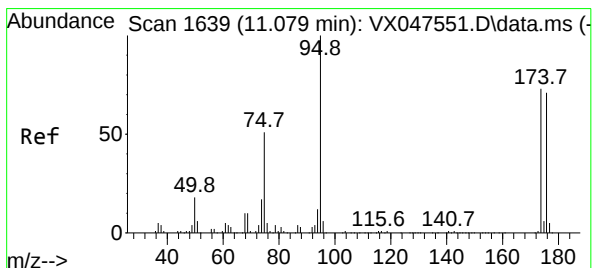
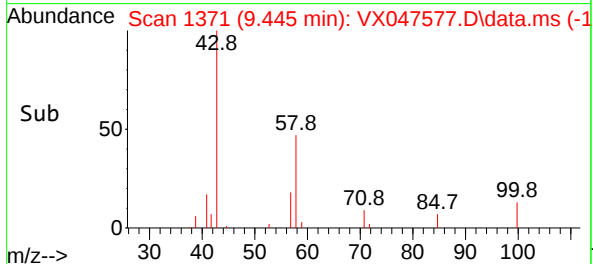
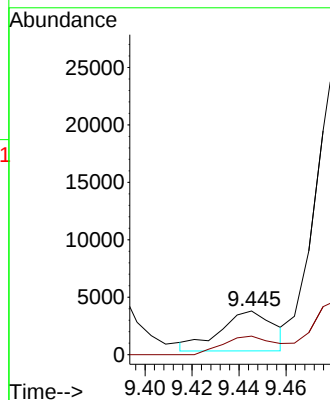
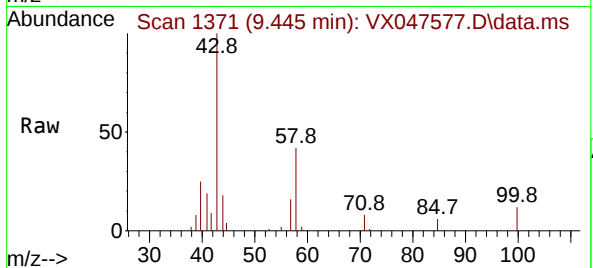
RT5427

Tgt Ion: 43 Resp: 5522

Ion Ratio Lower Upper

43 100

58 43.9 26.7 80.0



#62

4-Bromofluorobenzene

Concen: 57.763 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

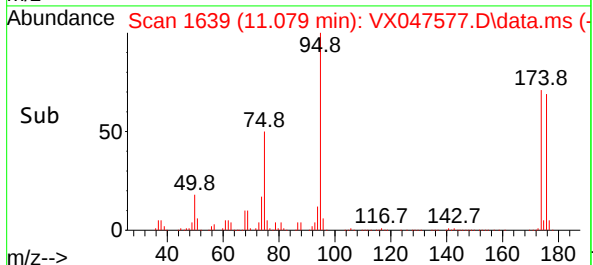
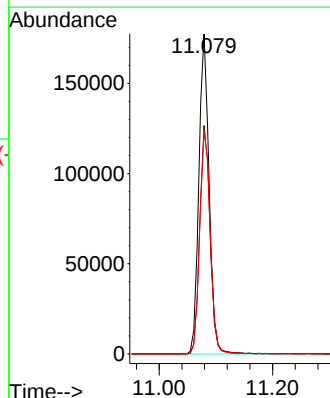
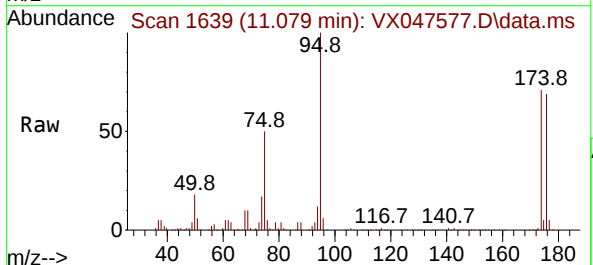
Tgt Ion: 95 Resp: 222074

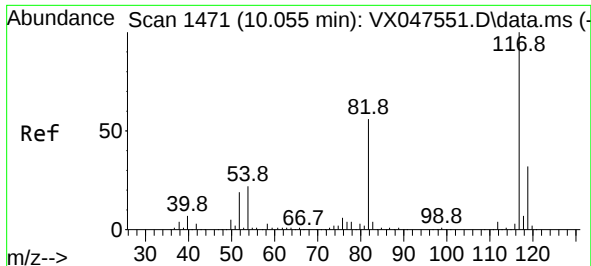
Ion Ratio Lower Upper

95 100

174 72.7 0.0 145.2

176 71.6 0.0 140.4

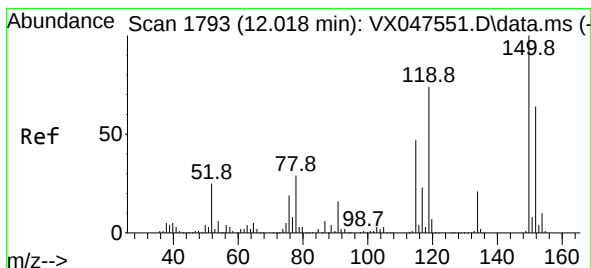
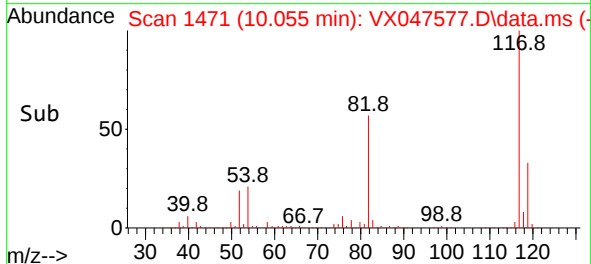
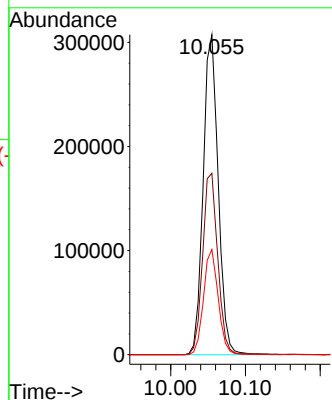
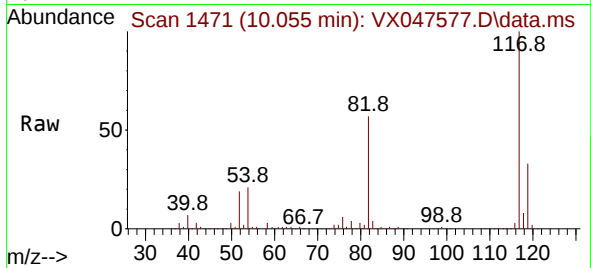




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

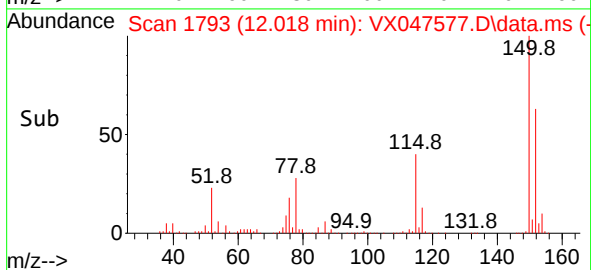
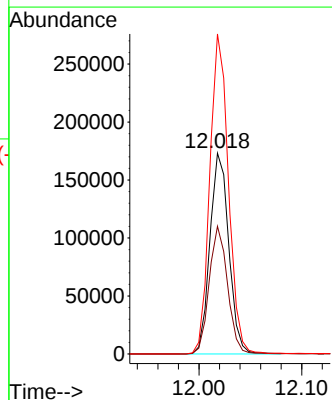
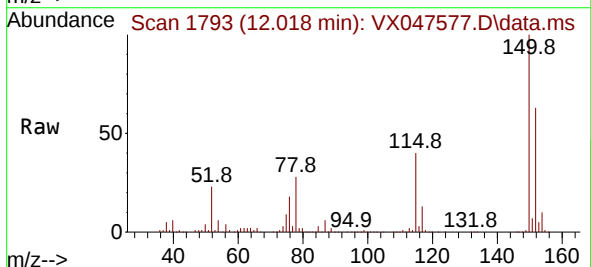
Instrument :
MSVOA_X
ClientSampleId :
RT5427

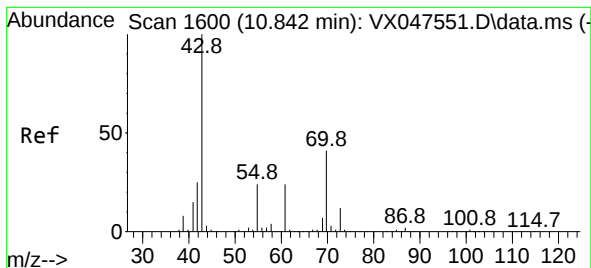
Tgt Ion:117 Resp: 429337
Ion Ratio Lower Upper
117 100
82 56.7 44.6 66.8
119 32.9 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion:152 Resp: 221415
Ion Ratio Lower Upper
152 100
115 62.0 42.9 128.5
150 157.2 0.0 351.0





#74

N-amy1 acetate

Concen: 0.338 ug/l

RT: 10.780 min Scan# 1

Delta R.T. -0.061 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

RT5427

Tgt Ion: 43 Resp: 2271

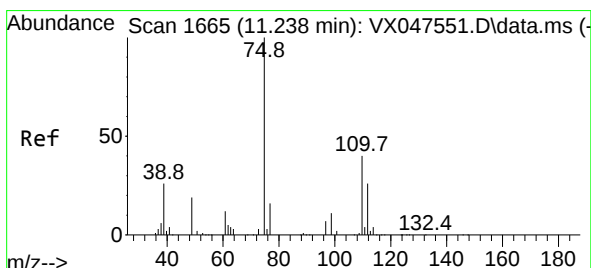
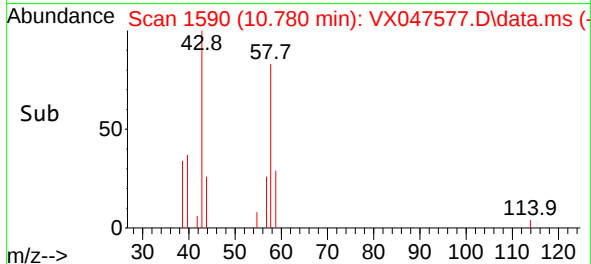
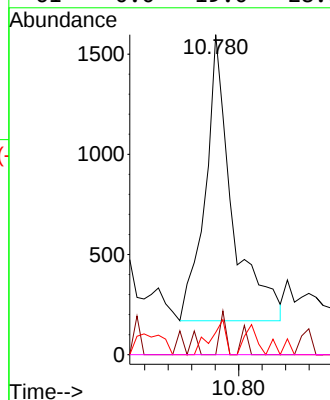
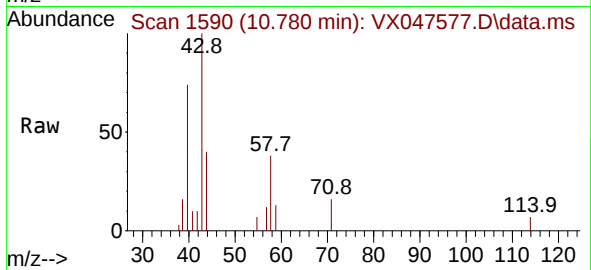
Ion Ratio Lower Upper

43 100

70 3.5 32.9 49.3#

55 6.9 19.2 28.8#

61 0.0 19.0 28.6#



#76

1,2,3-Trichloropropane

Concen: 28.973 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX047577.D

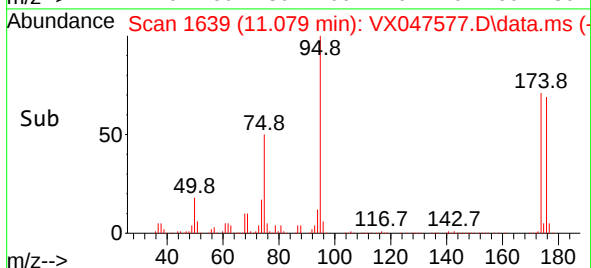
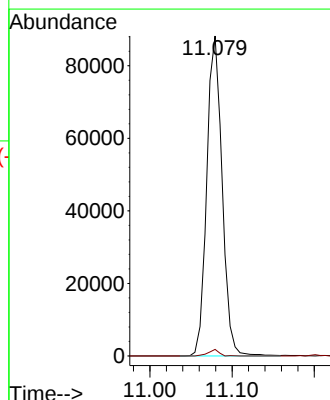
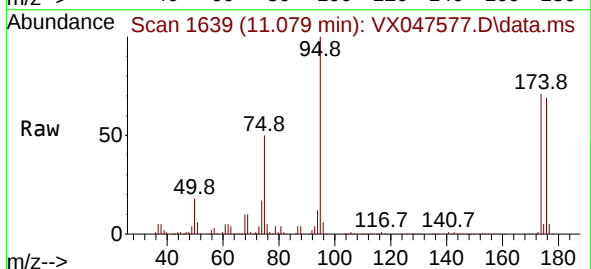
Acq: 02 Sep 2025 12:42

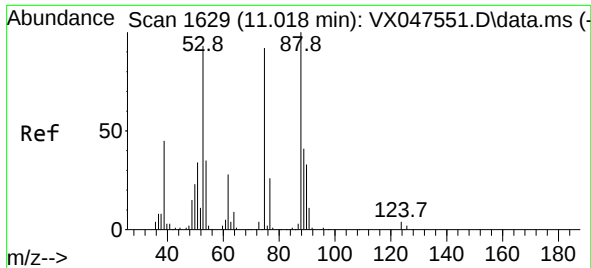
Tgt Ion: 75 Resp: 114494

Ion Ratio Lower Upper

75 100

77 1.4 19.7 59.1#

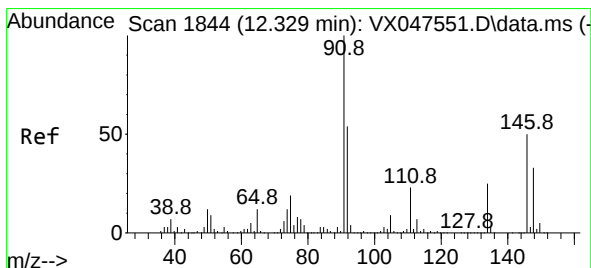
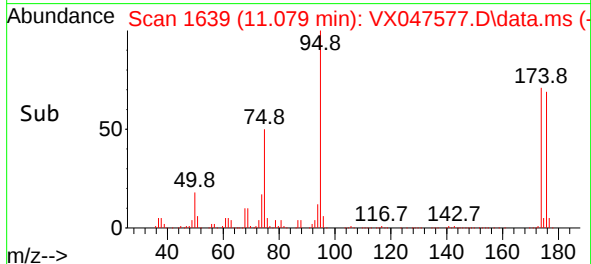
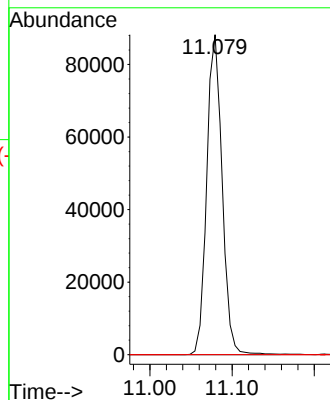
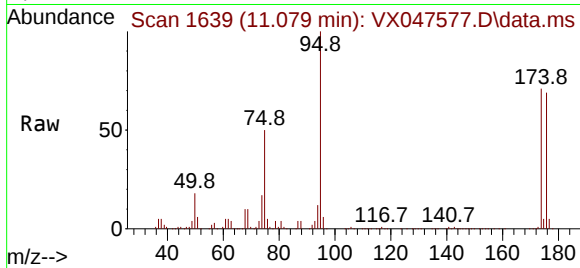




#81
trans-1,4-Dichloro-2-butene
Concen: 102.501 ug/l
RT: 11.079 min Scan# 1629
Delta R.T. 0.061 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

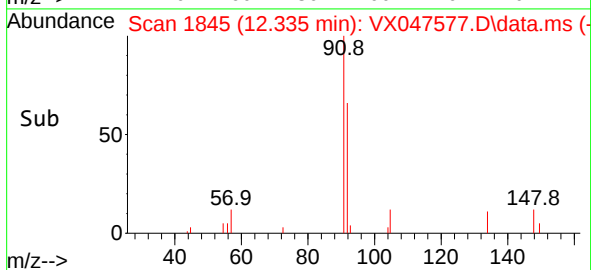
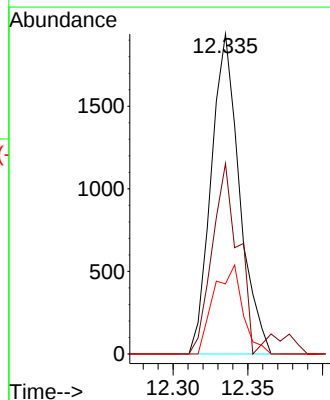
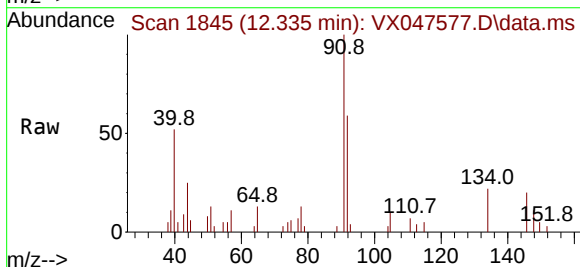
Instrument :
MSVOA_X
ClientSampleId :
RT5427

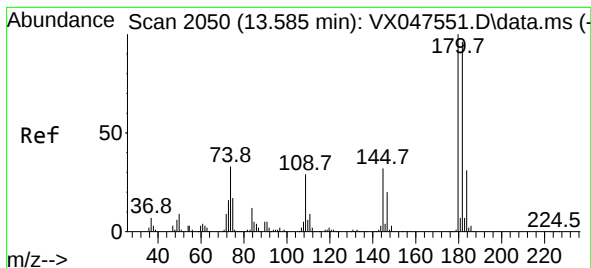
Tgt Ion: 75 Resp: 114494
Ion Ratio Lower Upper
75 100
53 0.0 85.7 128.5#
89 0.0 36.4 54.6#



#89
n-Butylbenzene
Concen: 0.204 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX047577.D
Acq: 02 Sep 2025 12:42

Tgt Ion: 91 Resp: 2553
Ion Ratio Lower Upper
91 100
92 55.5 27.0 81.0
134 28.3 12.6 37.6





#93

1,2,4-Trichlorobenzene

Concen: 0.248 ug/l

RT: 13.597 min Scan# 2050

Delta R.T. 0.012 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

Instrument :

MSVOA_X

ClientSampleId :

RT5427

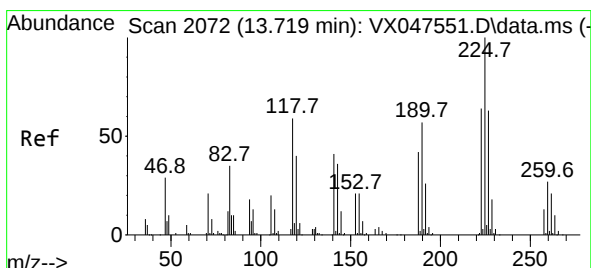
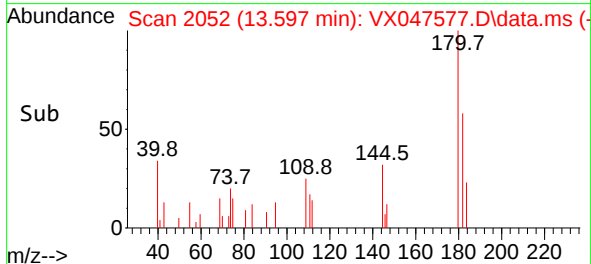
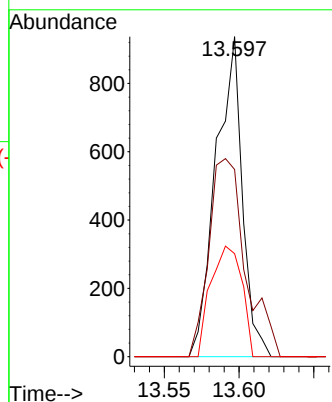
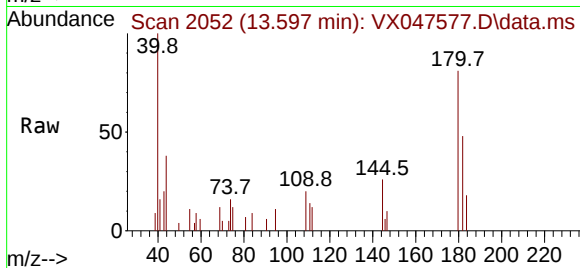
Tgt Ion:180 Resp: 1152

Ion Ratio Lower Upper

180 100

182 85.7 47.7 143.1

145 40.6 16.3 48.8



#94

Hexachlorobutadiene

Concen: 0.824 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.000 min

Lab File: VX047577.D

Acq: 02 Sep 2025 12:42

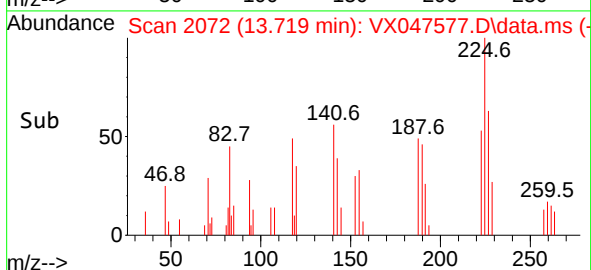
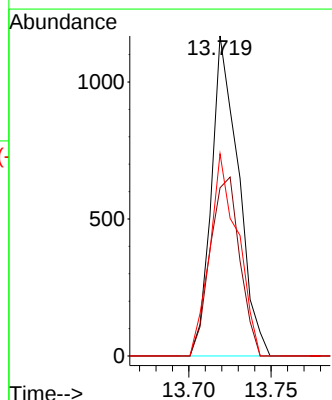
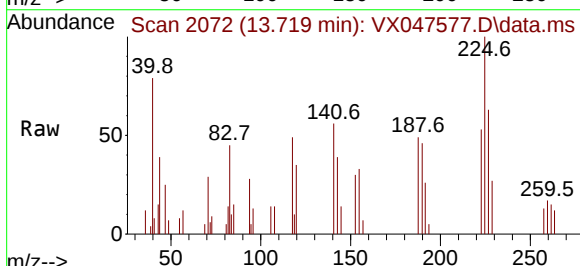
Tgt Ion:225 Resp: 1330

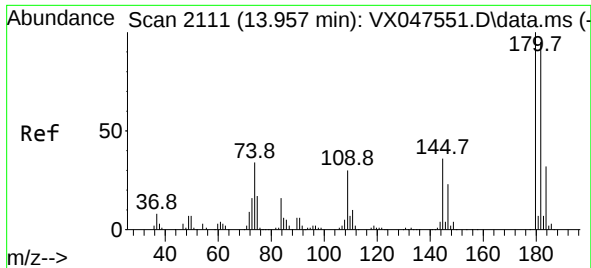
Ion Ratio Lower Upper

225 100

223 61.5 31.1 93.5

227 65.4 31.8 95.3





#96
 1,2,3-Trichlorobenzene
 Concen: 0.205 ug/l
 RT: 13.957 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VX047577.D
 Acq: 02 Sep 2025 12:42

Instrument :
 MSVOA_X
 ClientSampleId :
 RT5427

Tgt Ion:180	Resp:	892
Ion	Ratio	Lower Upper
180	100	
182	101.5	48.1 144.4
145	36.7	17.6 52.9

