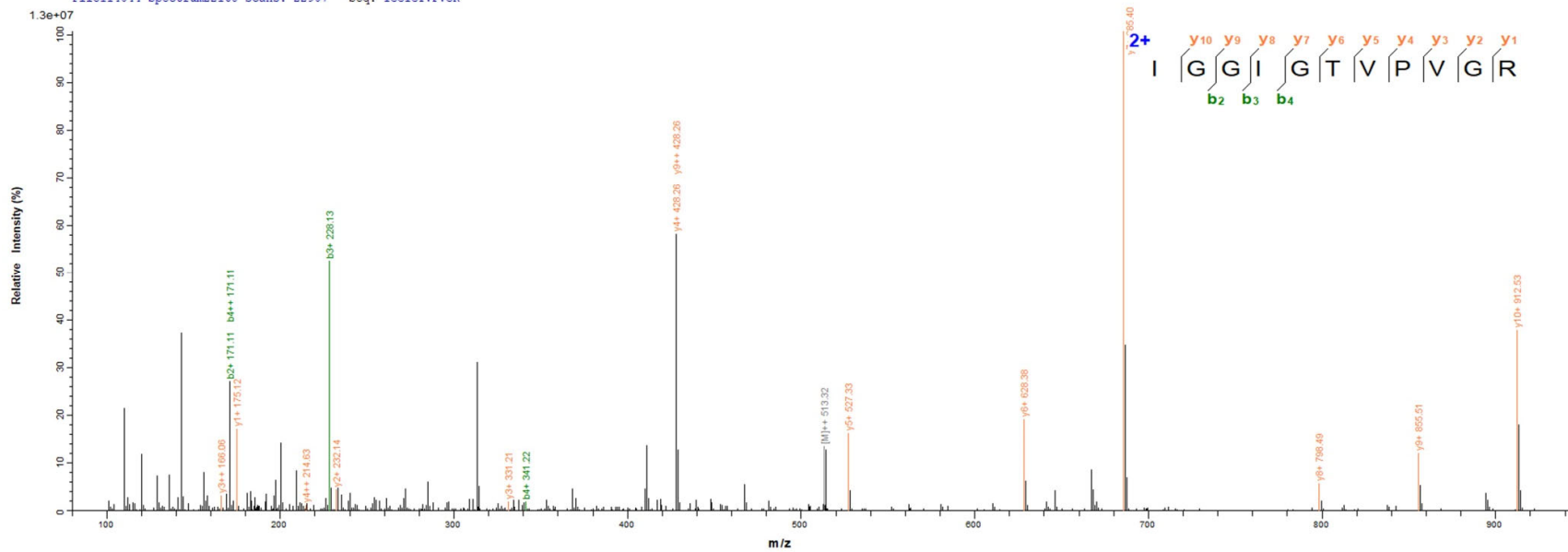
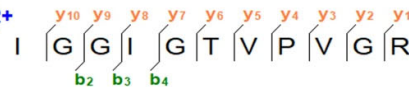


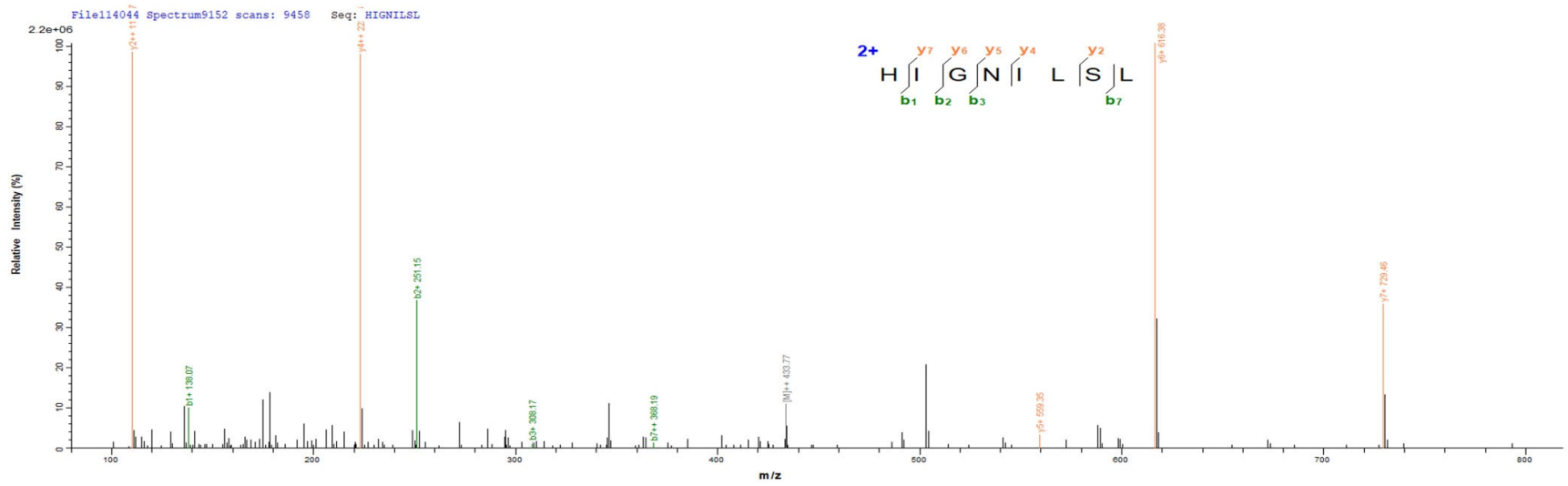
(a)

File114044 Spectrum22168 scans: 22907 Seq: IGGIGTVPVGR



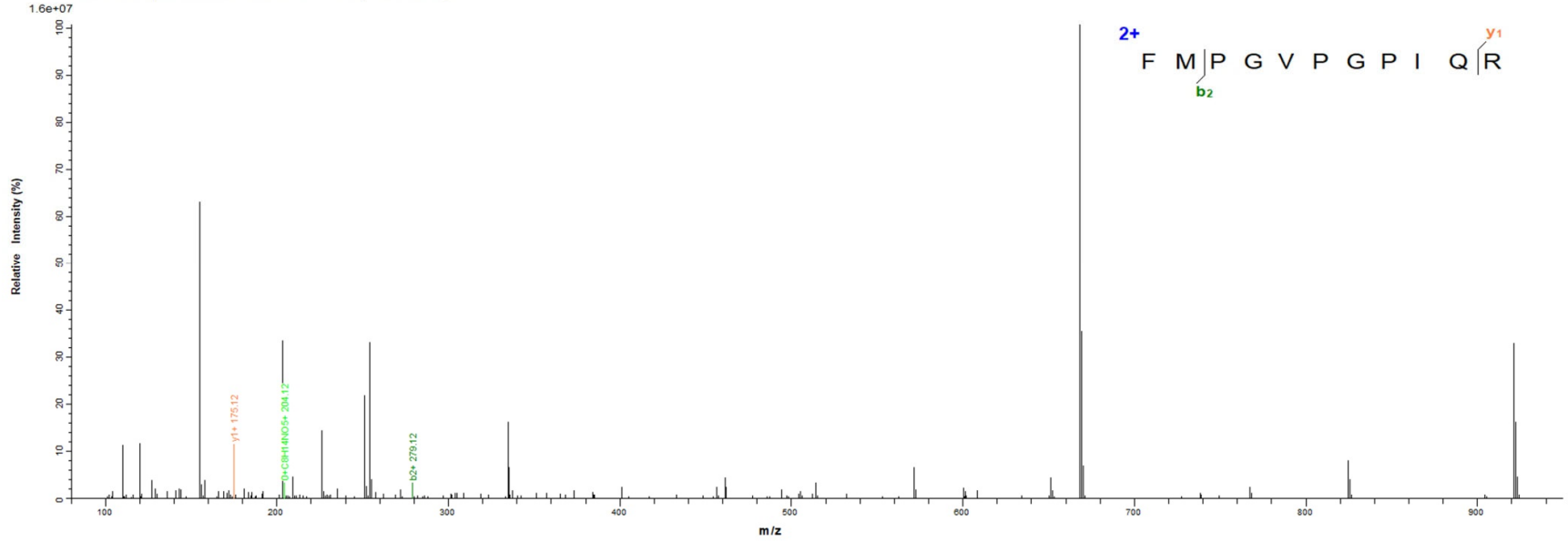
(b)





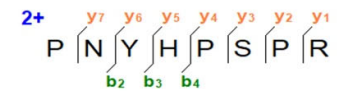
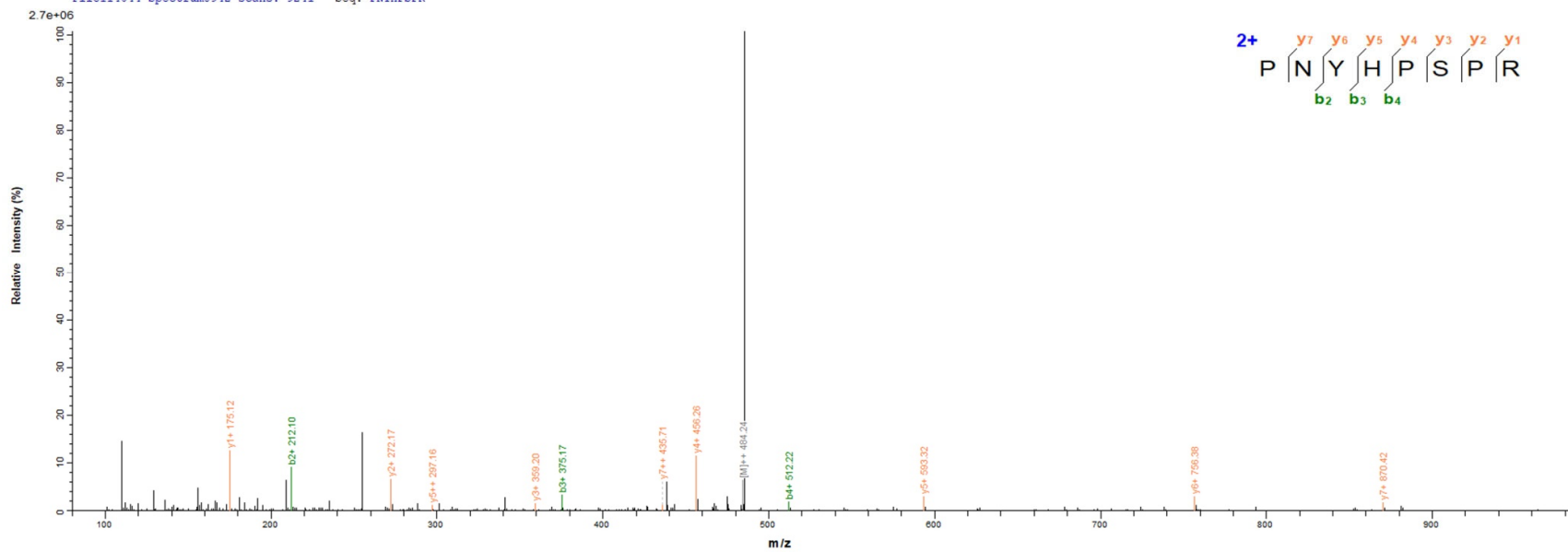
(c)

File114044 Spectrum29997 scans: 30997 Seq: FMPGVPGPIQR



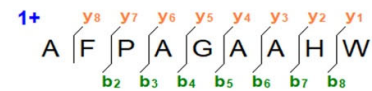
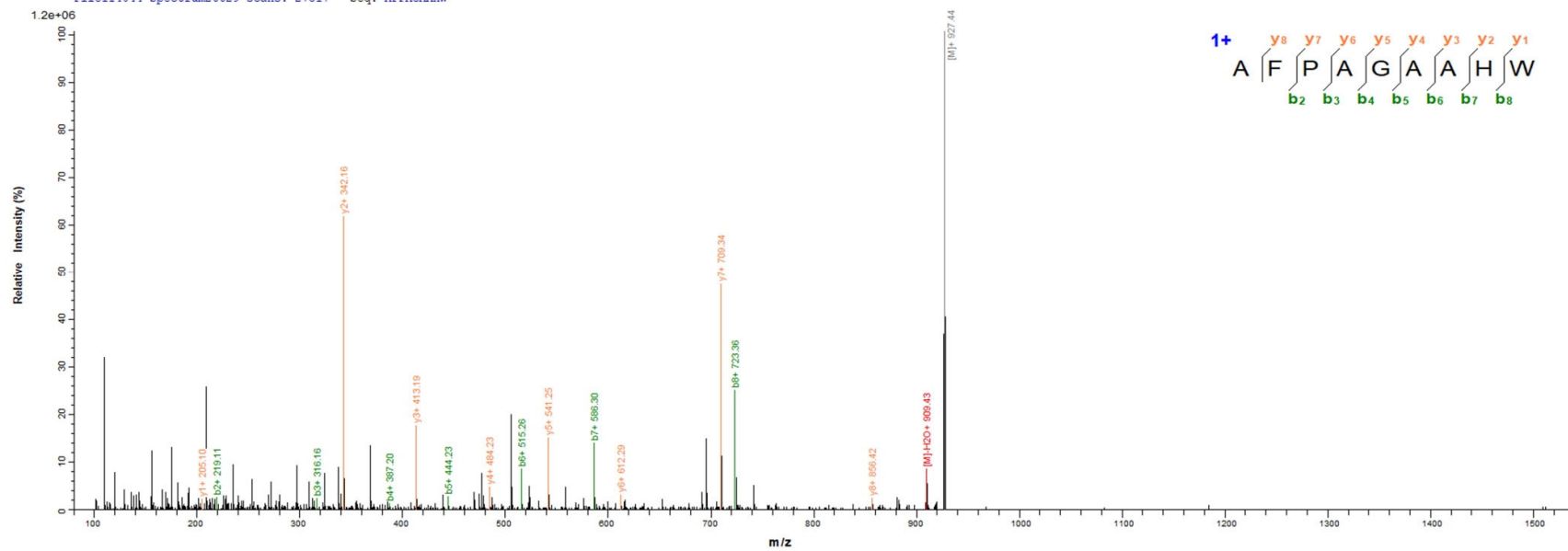
(d)

File114044 Spectrum8942 scans: 9241 Seq: FNYHPSR



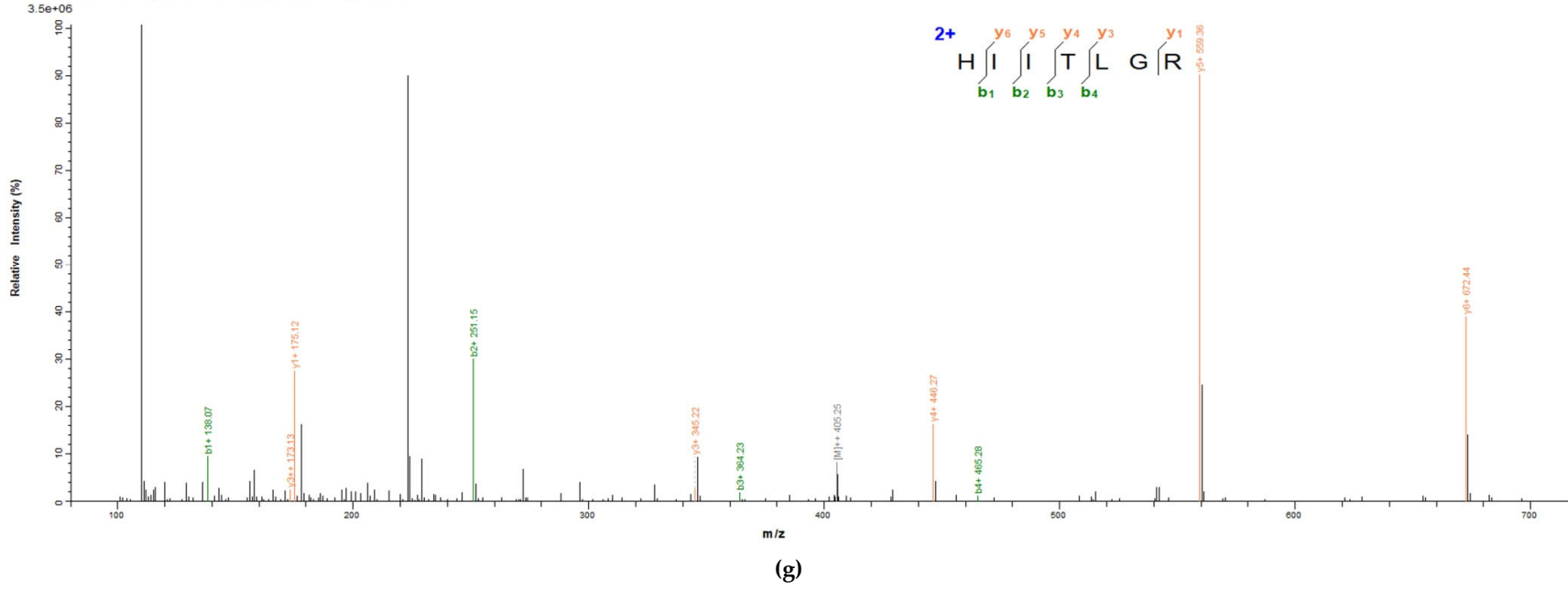
(e)

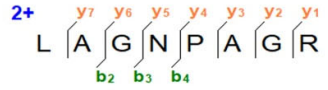
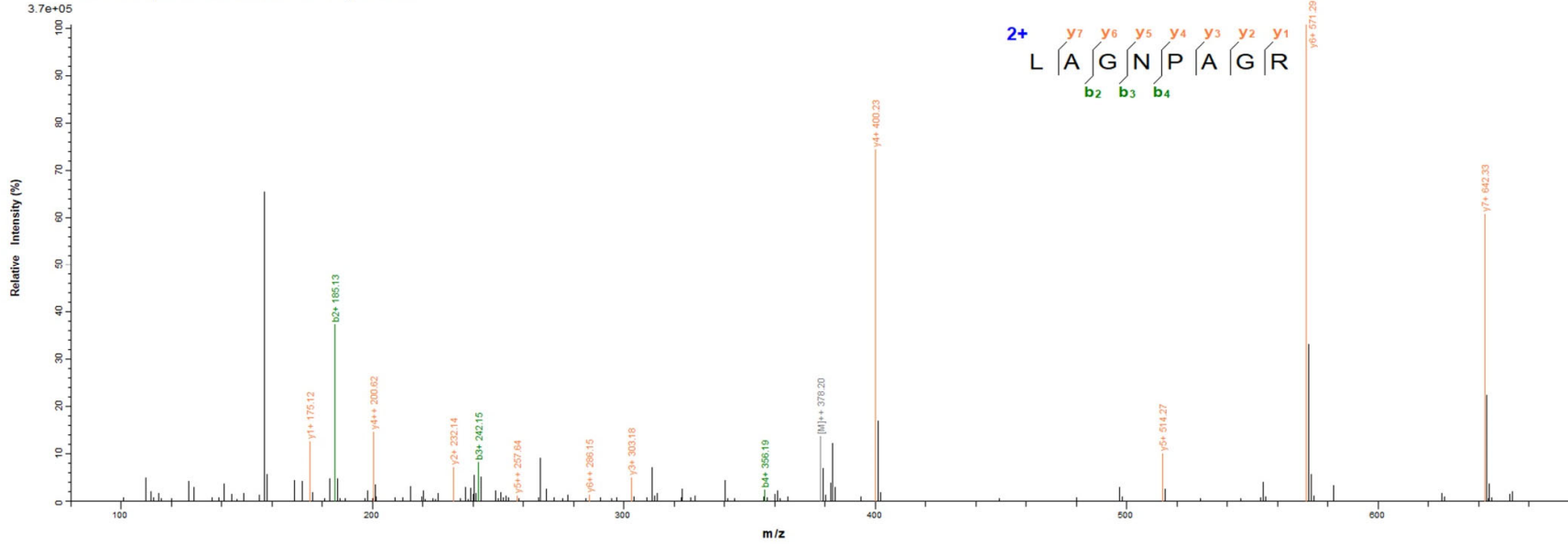
File114044 Spectrum26629 scans: 27517 Seq: AFPAGAAHW



(f)

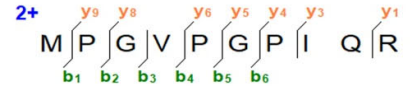
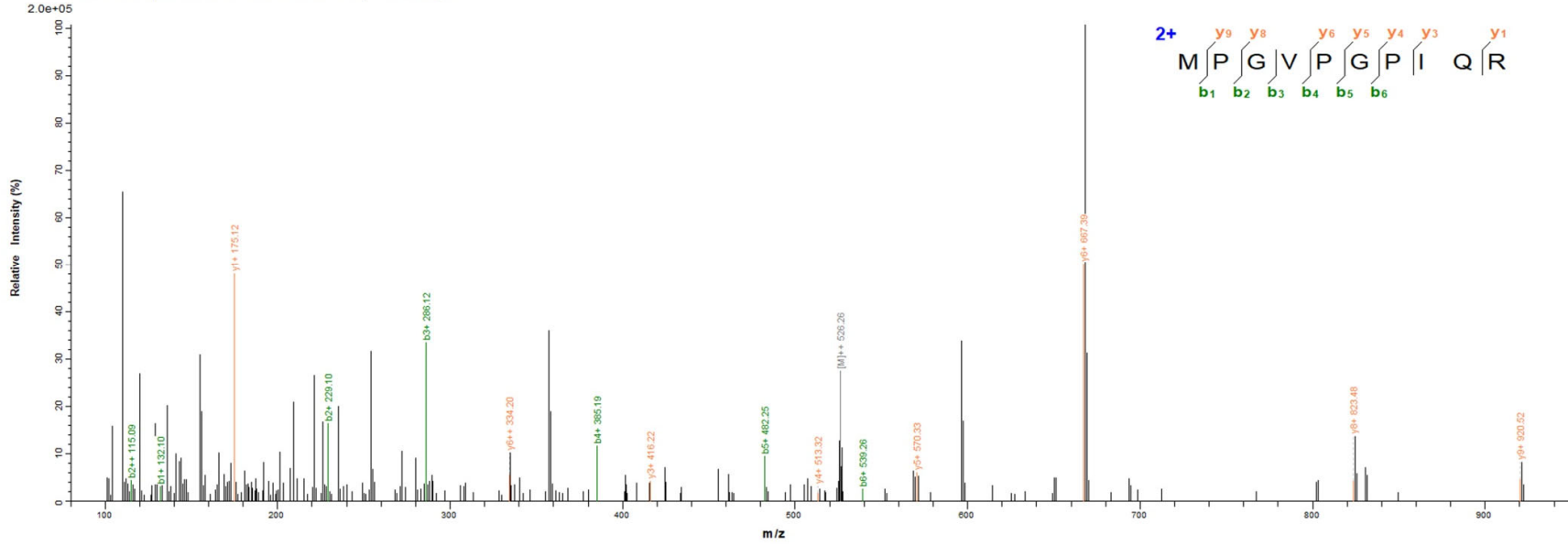
File114044 Spectrum9591 scans: 9911 Seq: HIITLGR





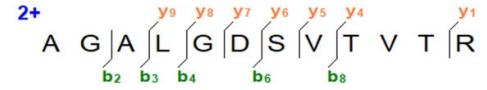
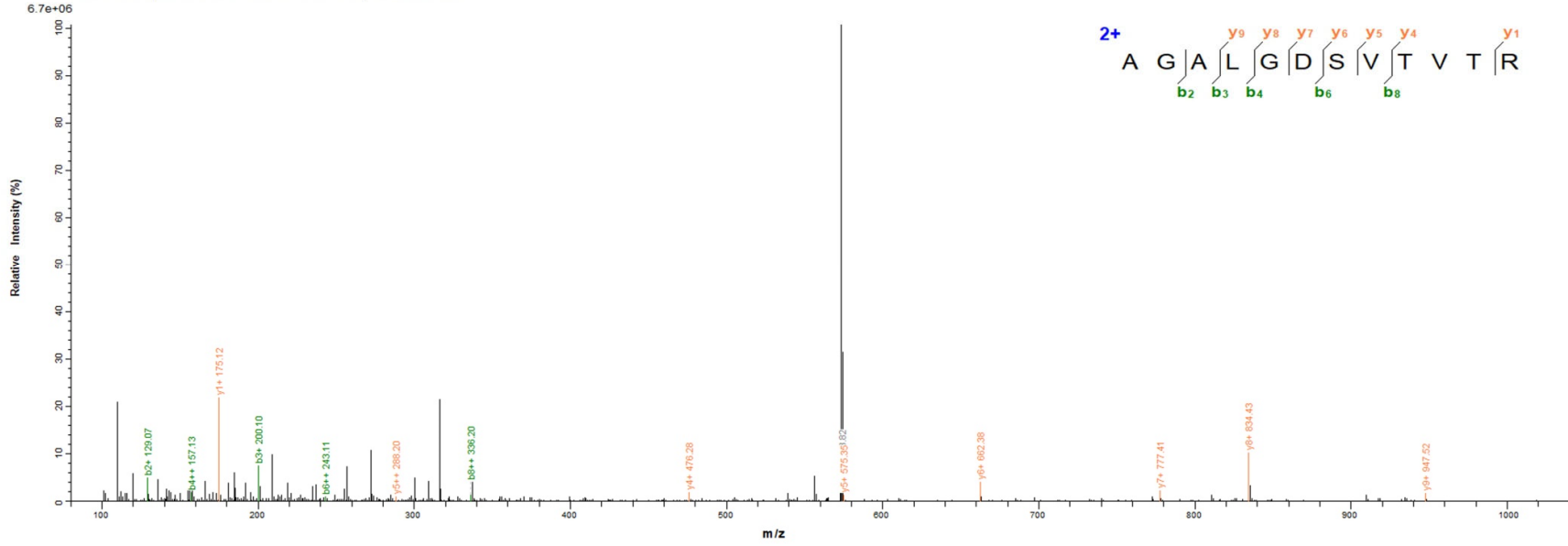
(h)

File114044 Spectrum51334 scans: 53047 Seq: MFGVGPPIQR

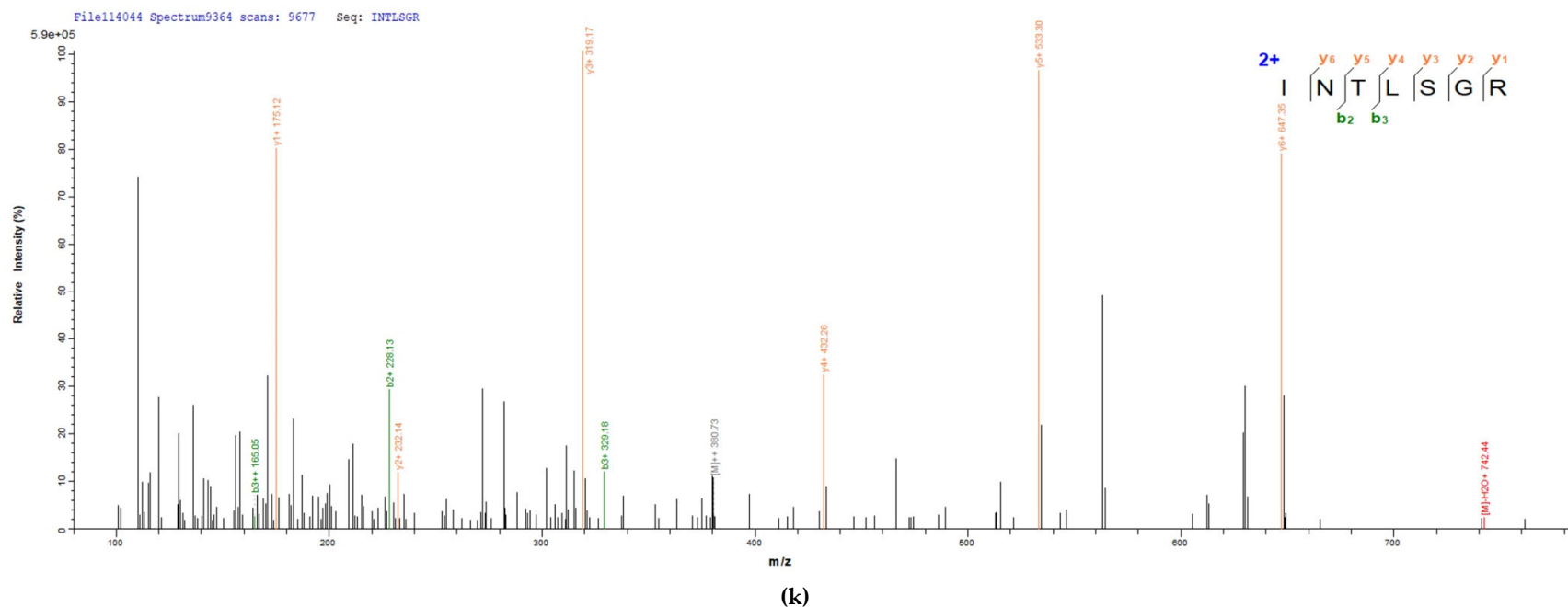


(i)

File114044 Spectrum16294 scans: 16838 Seq: AGALGDSVTVTR



(j)



2 **Figure S1.** Identification of the molecular weight and amino acid sequence from peak 4. (a) MS/MS spectrum of GHITVAR. (b) MS/MS spectrum of IGGIGTVPVGR. (c)
 3 MS/MS spectrum of HIGNILSL. (d) MS/MS spectrum of FMPGVPGPIQR. (e) MS/MS spectrum of PNYHPSPR. (f) MS/MS spectrum of AFPAGAAHW. (g) MS/MS
 4 spectrum of HIITLGR. (h) MS/MS spectrum of LAGNPAGR. (i) MS/MS spectrum of MPGVPGPIQR. (j) MS/MS spectrum of AGALGDSVTVTR. (k) MS/MS spectrum of
 5 INTLSGR.

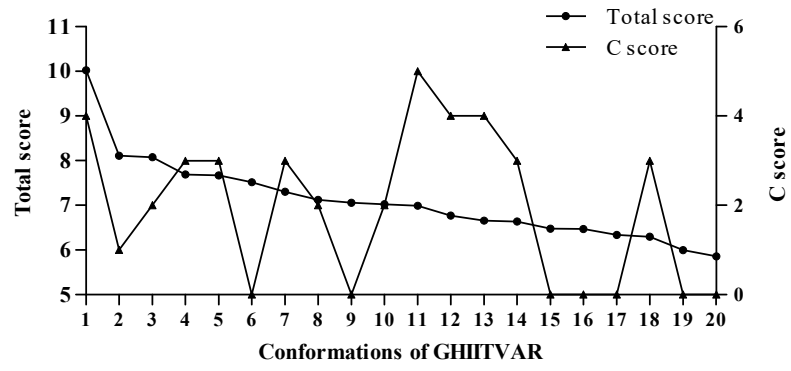


Figure S2. Total scores and C scores of conformations of GHIITVAR.

6
7
8

Table S1. Surflex-Dock scores (kcal/mol) of the other peptides.

Peptide	Total_score	Crash	Polar	D_score	PMF_score	G_score	Chem score	C score
INTLSGR	12.2544	-7.2199	12.0071	-317.9095	-275.737	-483.6159	-35.7317	1
LAGNPAGR	14.3901	-5.604	10.4595	-316.4394	-209.338	-527.4342	-42.3209	1
MPGVPGPIQR	12.5911	-5.6723	6.0252	-347.0212	-220.822	-649.0413	-10.4718	2
AFPAGAAHW	9.2034	-4.679	4.4847	-287.4604	-283.761	-507.8476	-41.4304	1
PNYHPSPR	10.0883	-6.7967	5.6331	-349.9793	-308.285	-674.6738	-35.9565	2
HIGNILSL	13.1644	-4.6353	9.2204	-307.7014	-236.307	-564.3041	-45.3885	0
FMPGVPGPIQR	9.6726	-7.723	7.2321	-371.4869	-263.845	-628.7991	-19.6976	3
IGGIGTVPVGR	11.964	-7.5337	8.7111	-363.7118	-269.274	-674.8707	-52.8792	1