Supplementary material

Study of Novel Peptides for Antimicrobial Protection in Solution and on Cotton Fabric

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1. FTIR spectra

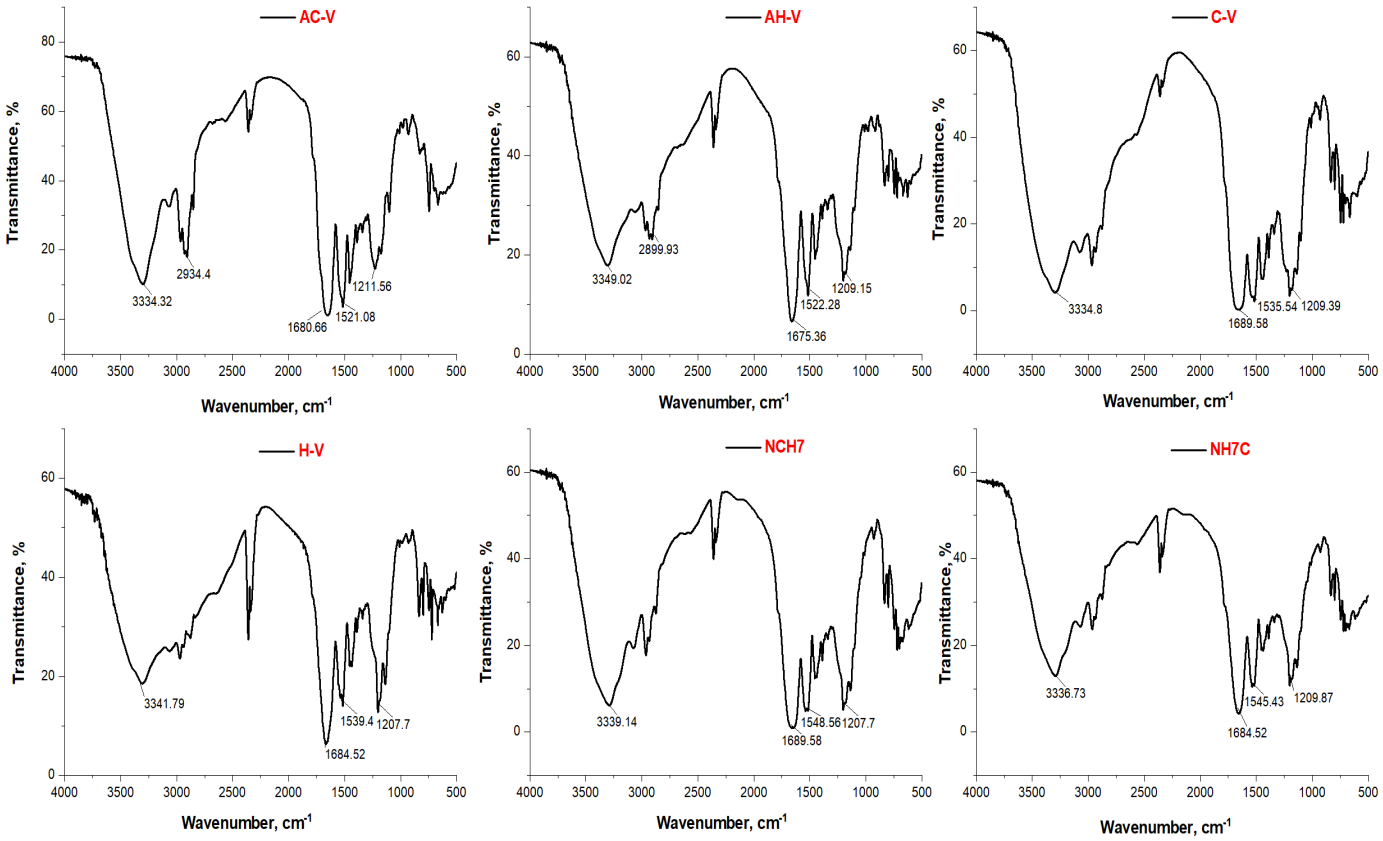


Figure S1. FTIR spectrum of investigated peptide derivatives (**C-V, H-V, AC-V, AH-V, NH7C** and **NCH7**)

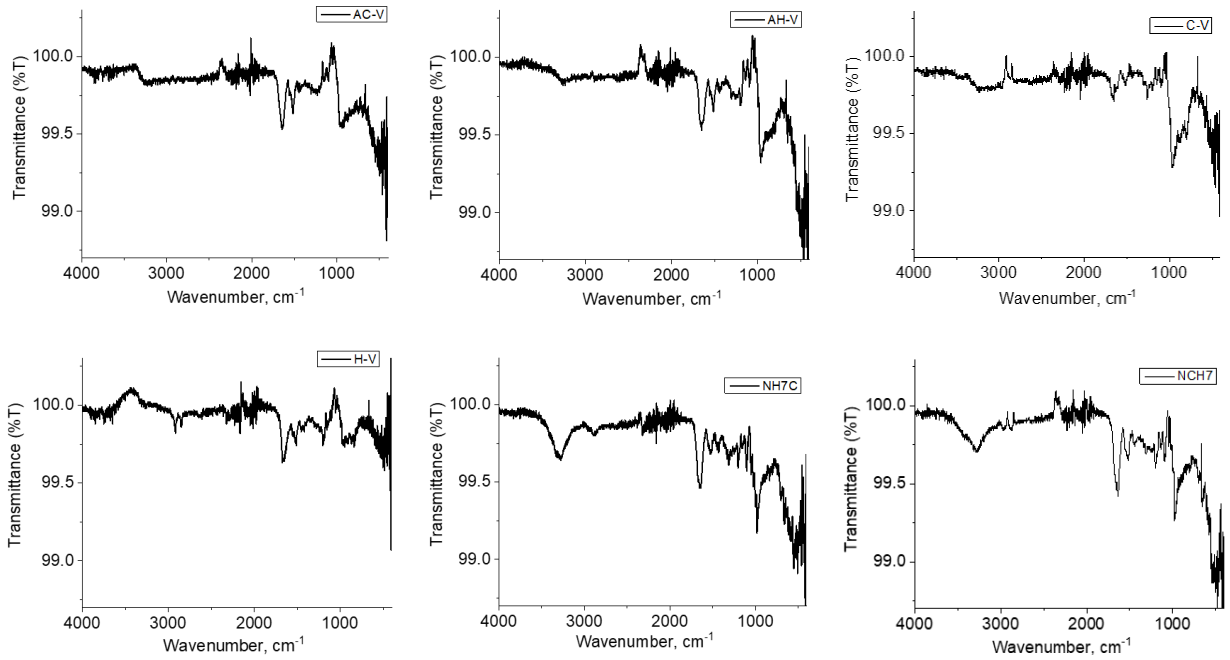
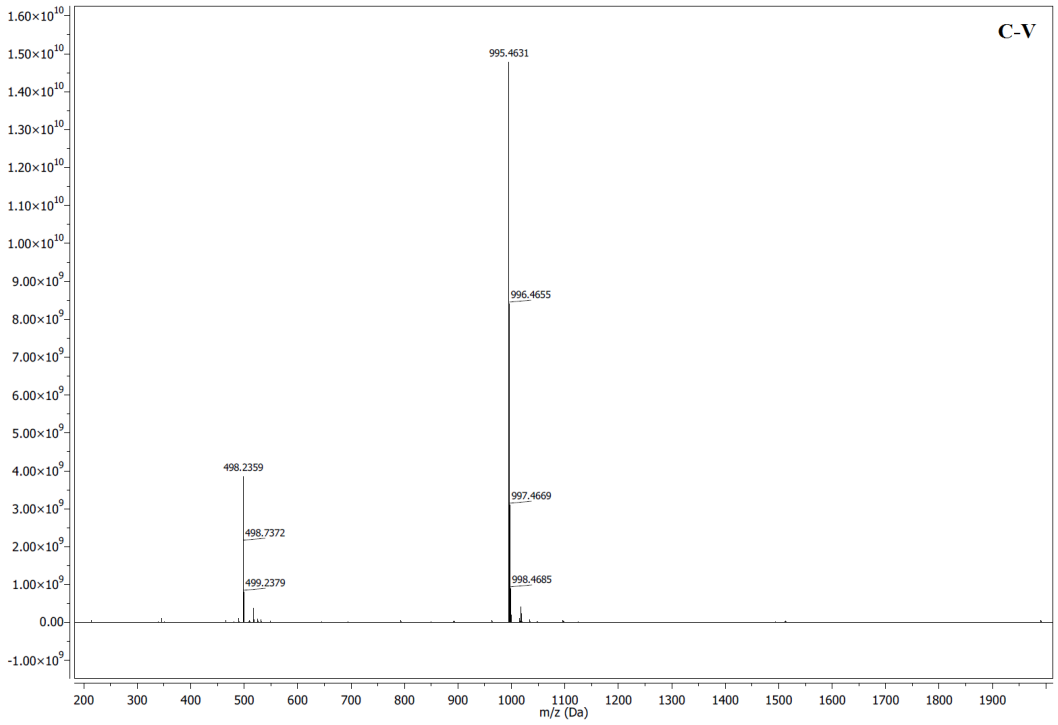
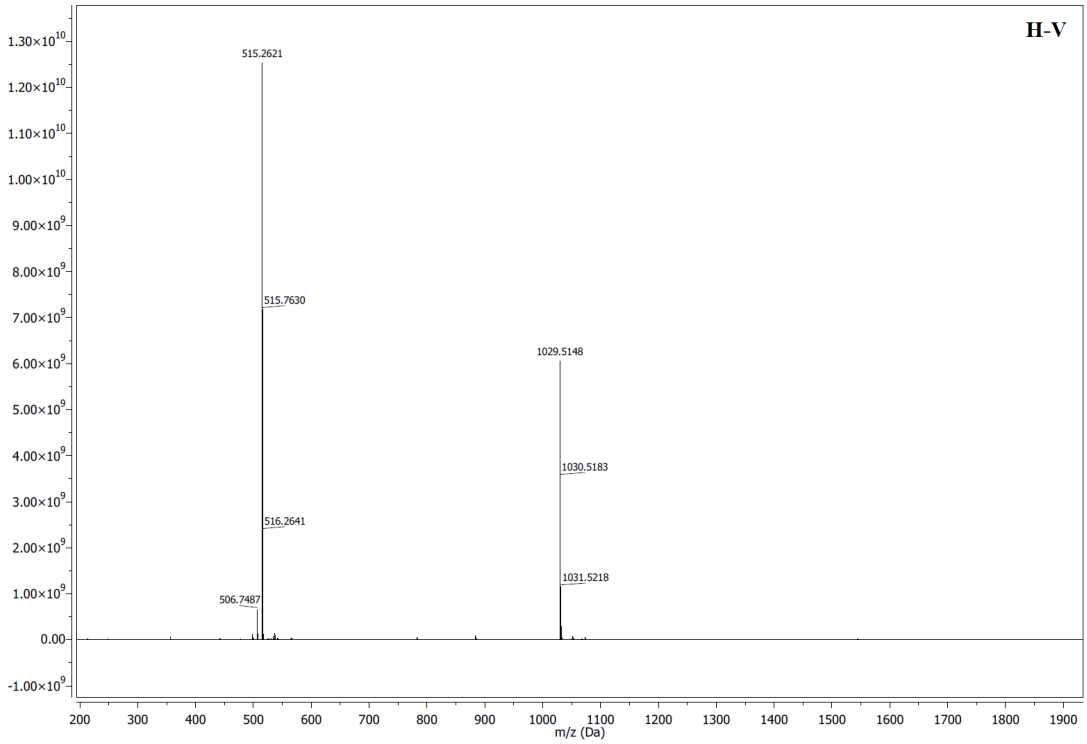


Figure S2. Subtracting FTIR spectrum of cotton fabric from the spectra of cotton fabric modified with **AC-V, AH-V, C-V, H-V, NCH7** and **NH7C**

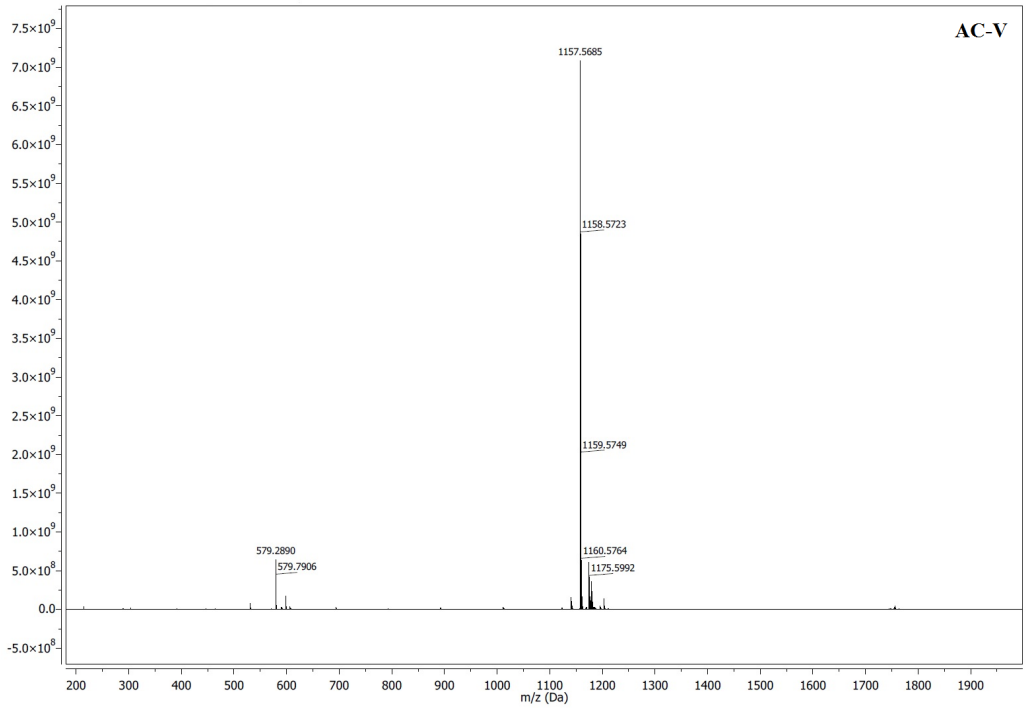
2. Mass spectra of synthesized compounds



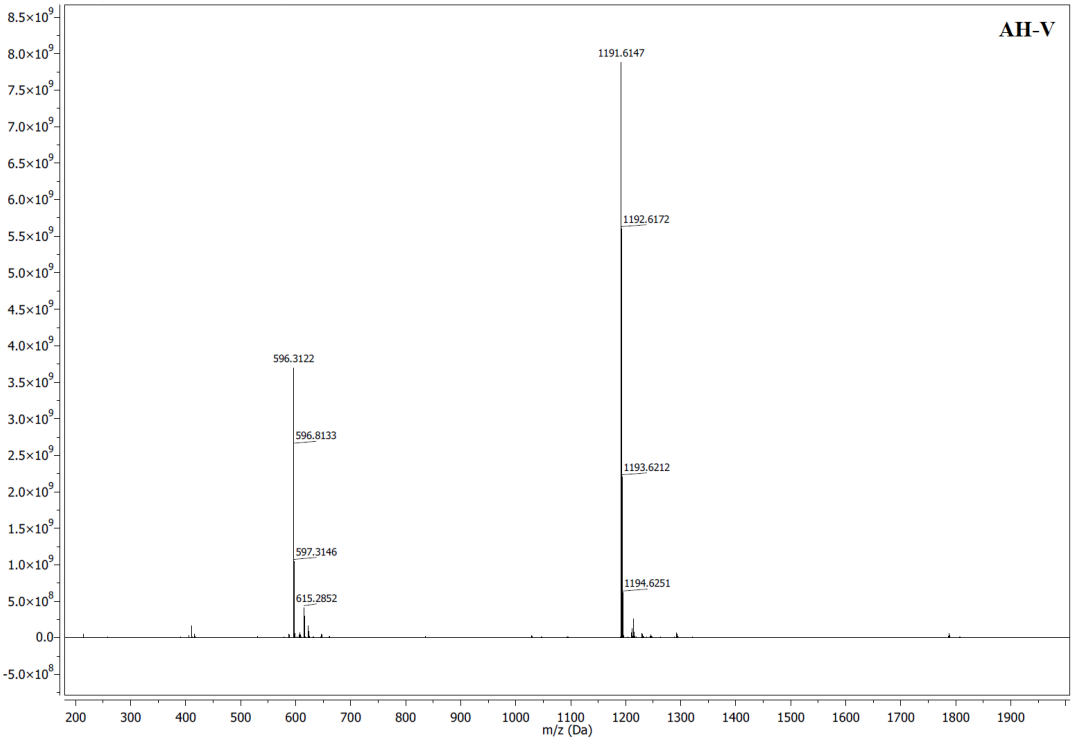
A) ESI-MS spectrum of C-V



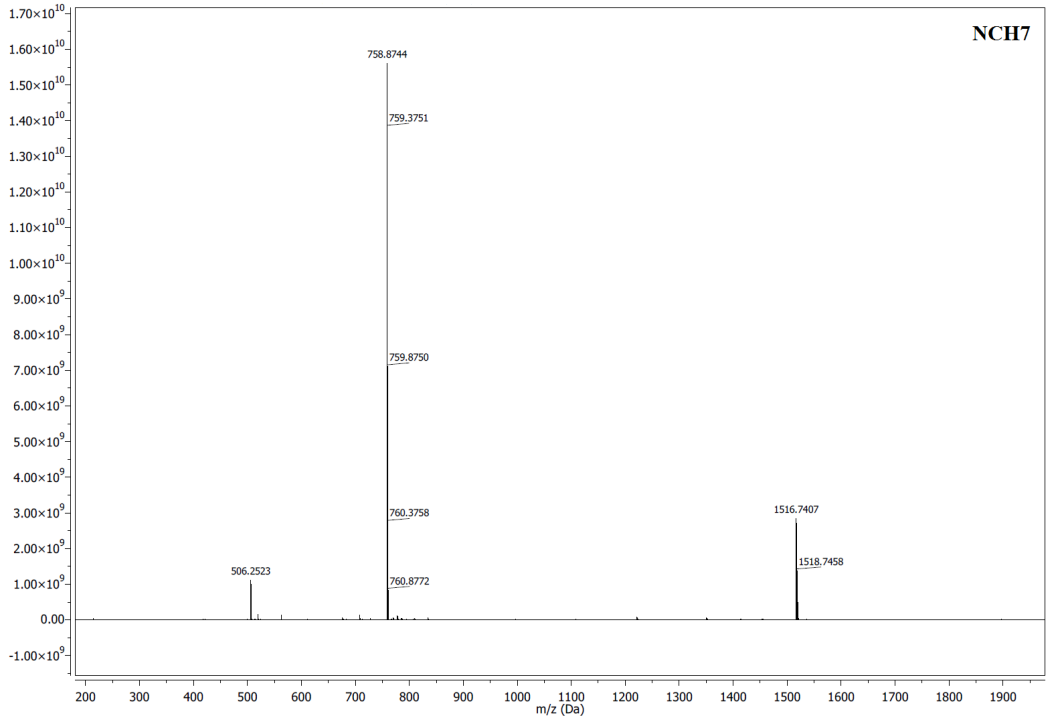
B) ESI-MS spectrum of H-V



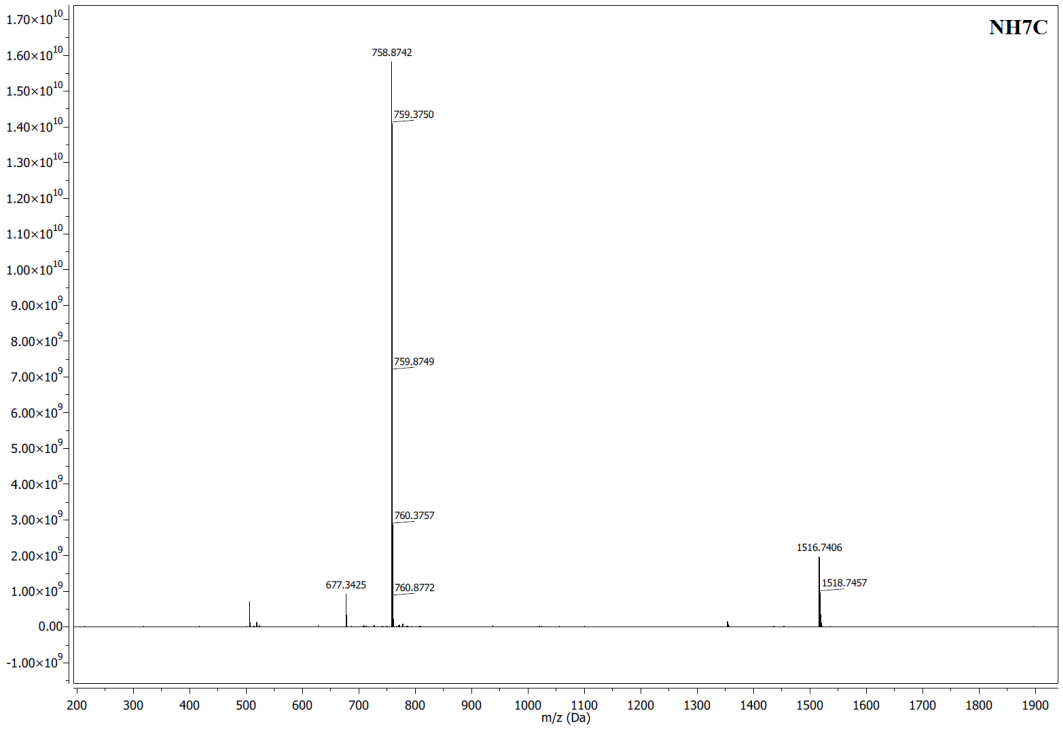
C) ESI-MS spectrum of AC-V



D) ESI-MS spectrum of AH-V



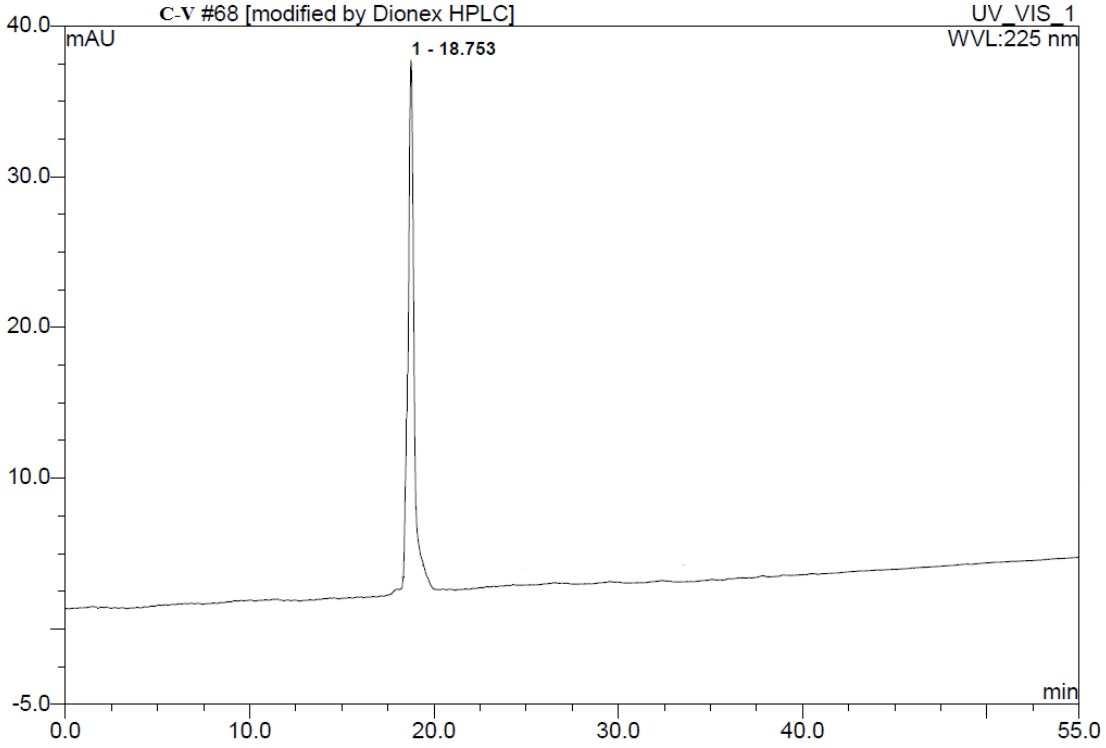
E) ESI-MS spectrum of NCH7

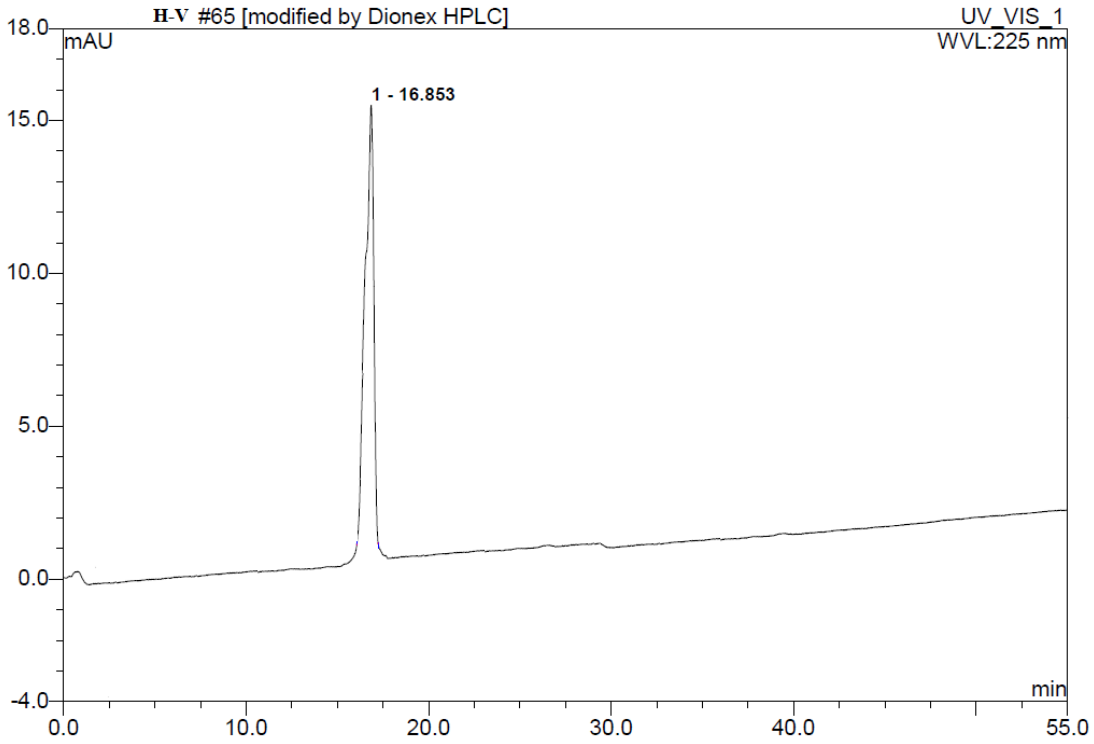


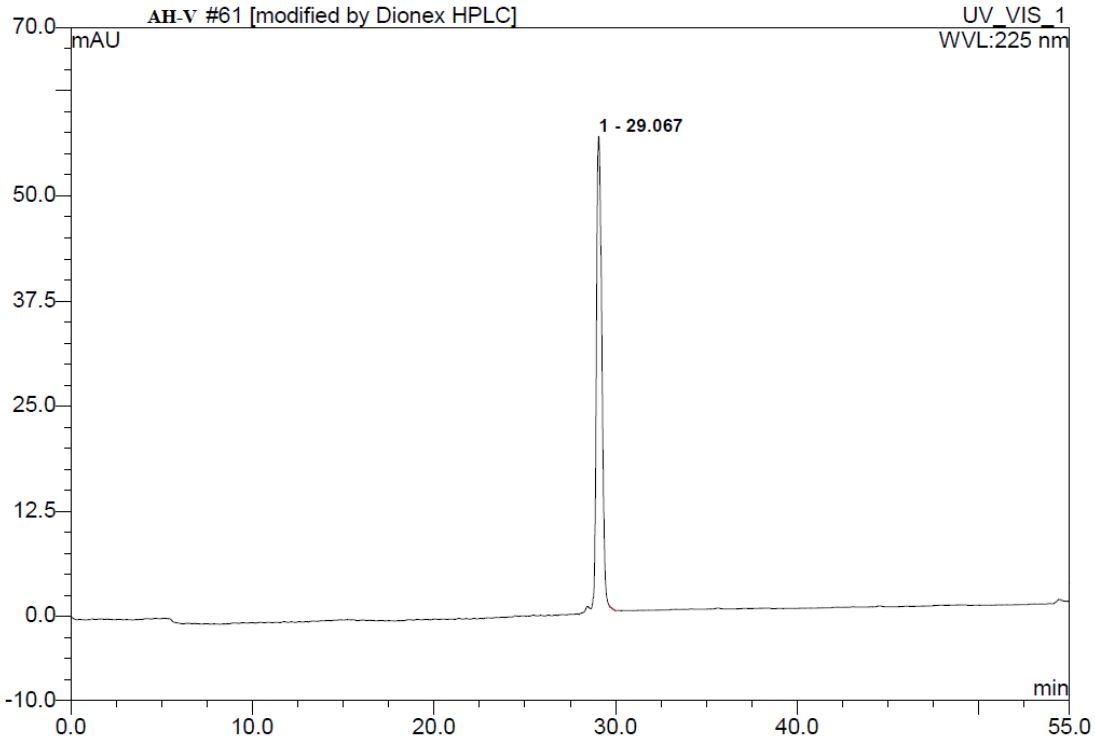
F) ESI-MS spectrum of NH7C

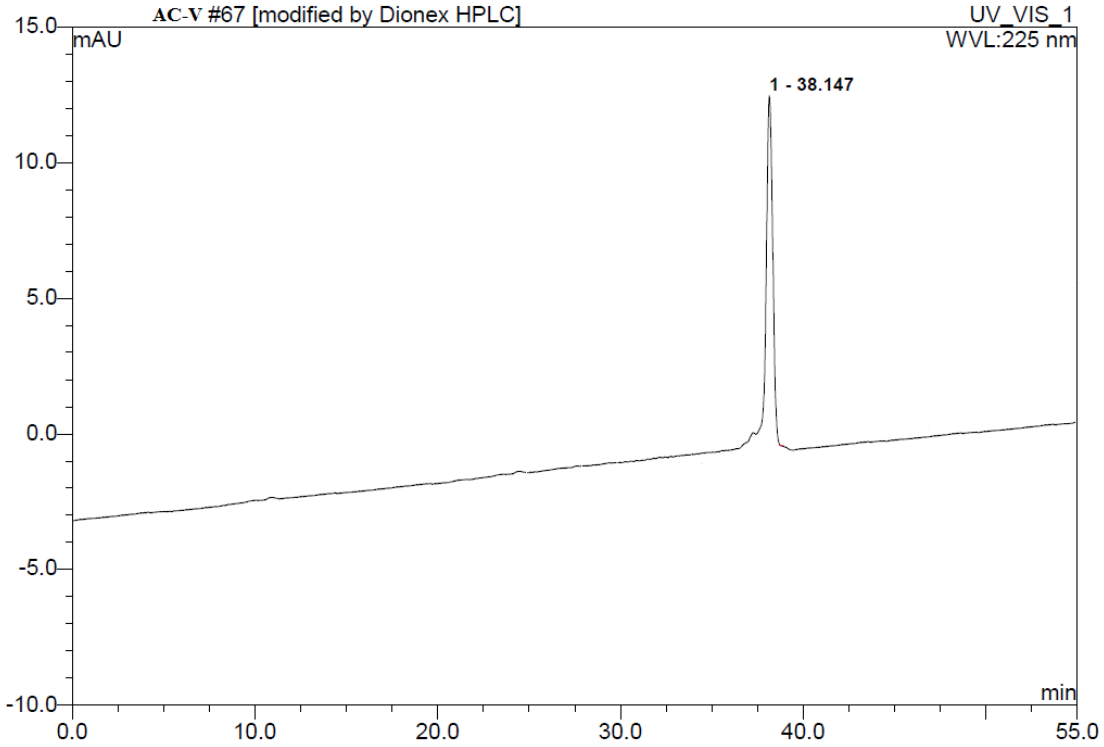
Figure S3. ESI-MS spectra of new peptide analogues (**C-V, H-V, AC-V, AH-V, NH7C** and **NCH7**)

3. Analytical HPLC chromatograms of peptides.






AH-V #61 [modified by Dionex HPLC]
UV_VIS_1
WVL:225 nm
mAU
1 - 29.067
70.0
50.0
37.5
25.0
12.5
0.0
-10.0
min
0.0
10.0
20.0
30.0
40.0
55.0


AC-V #67 [modified by Dionex HPLC]
UV_VIS_1
WVL:225 nm
mAU
1 - 38.147
15.0
10.0
5.0
0.0
-5.0
-10.0
min
0.0
10.0
20.0
30.0
40.0
55.0

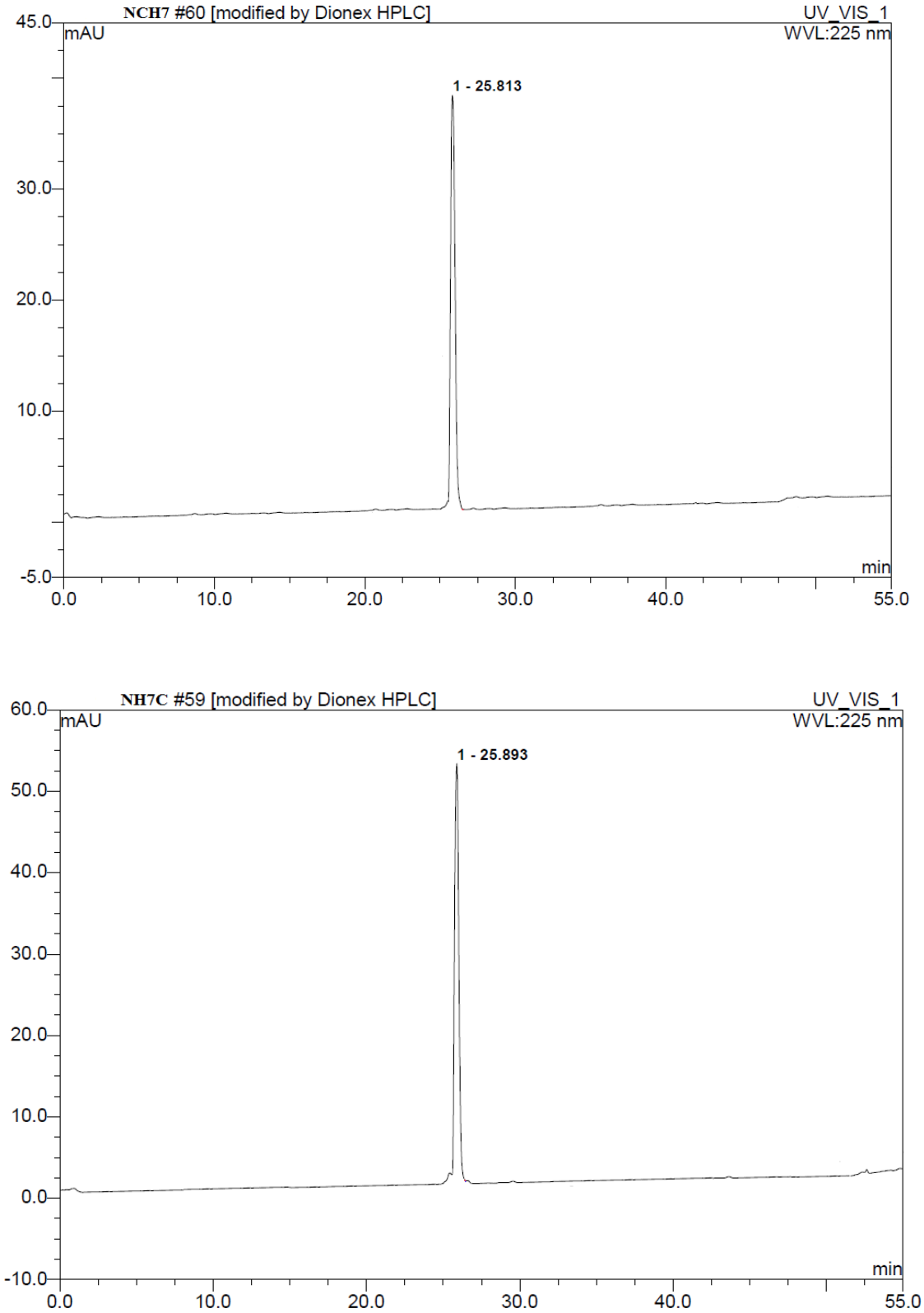


Figure S4. Analytical HPLC chromatograms of peptides