

Supporting Information

Prevention of Drug-induced Memory Impairment by Immunopharmacotherapy

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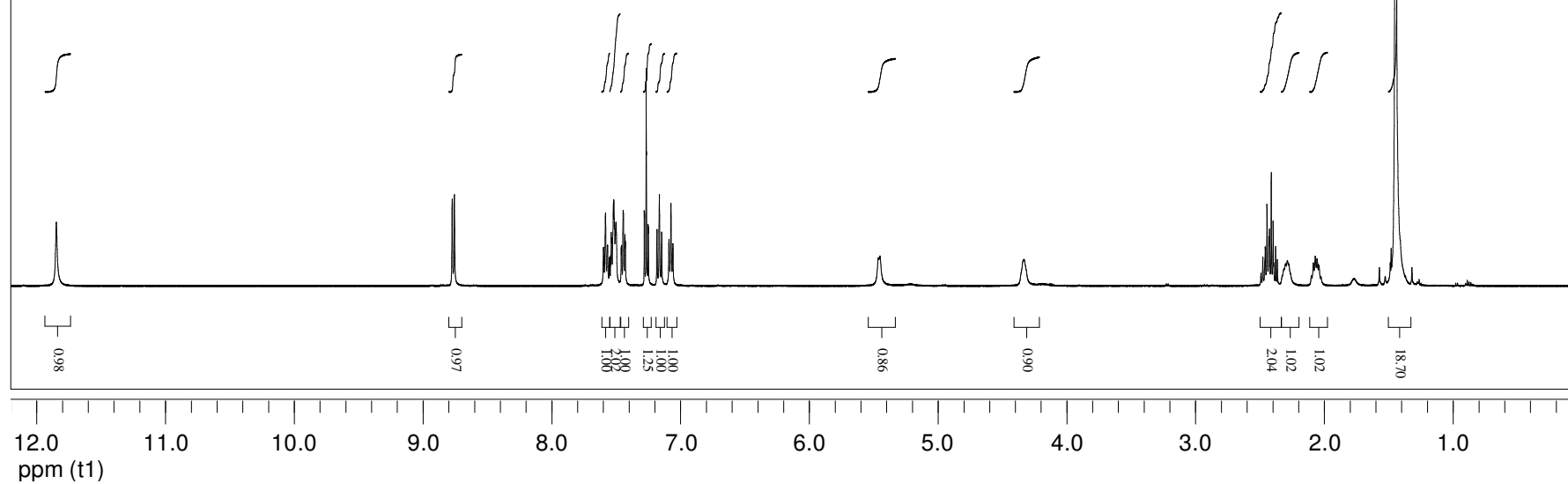
[§] Molecular and Integrated Neurosciences Department (MIND)

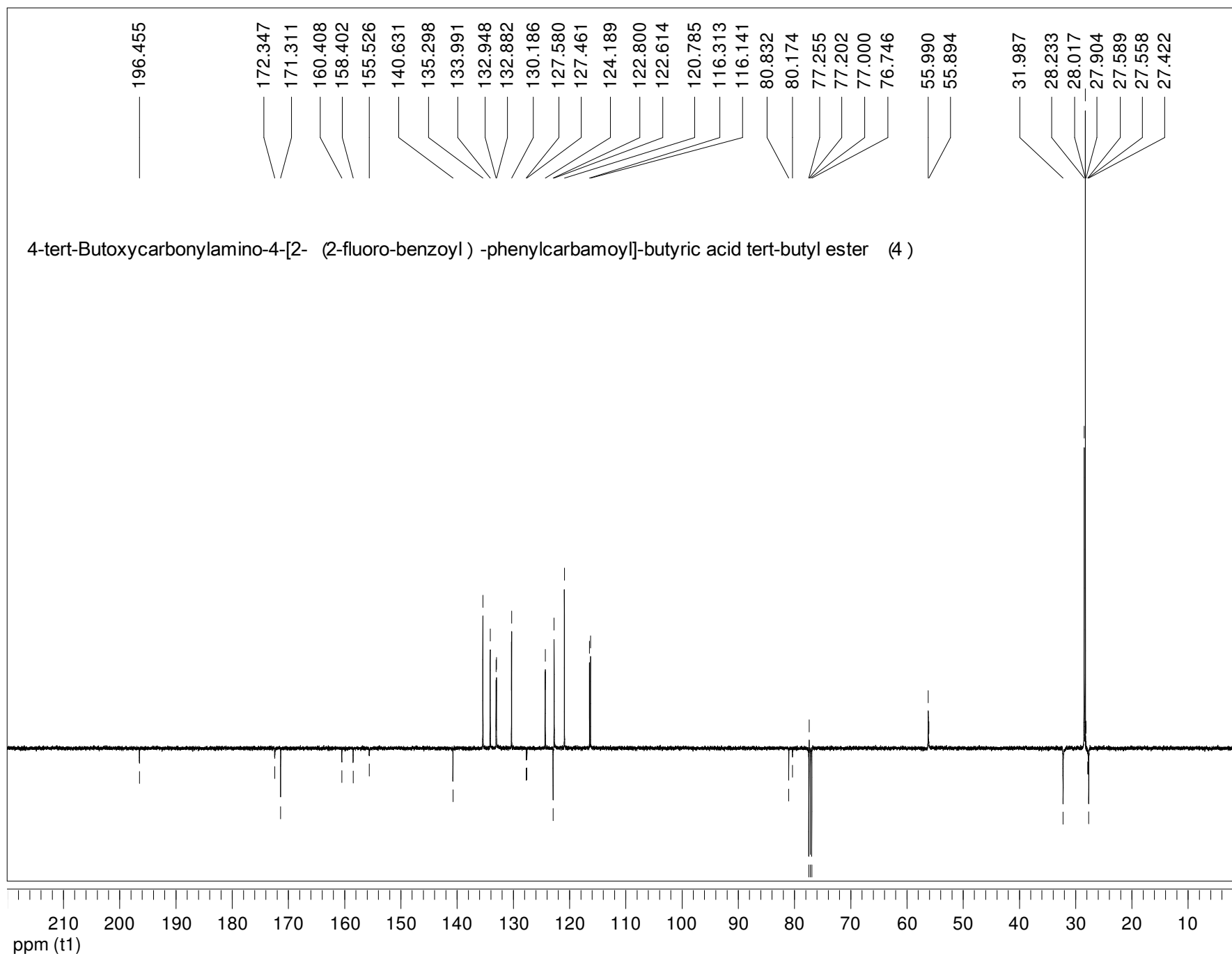
^{*} Worm Institute for Research and Medicine (WIRM)

Contents:

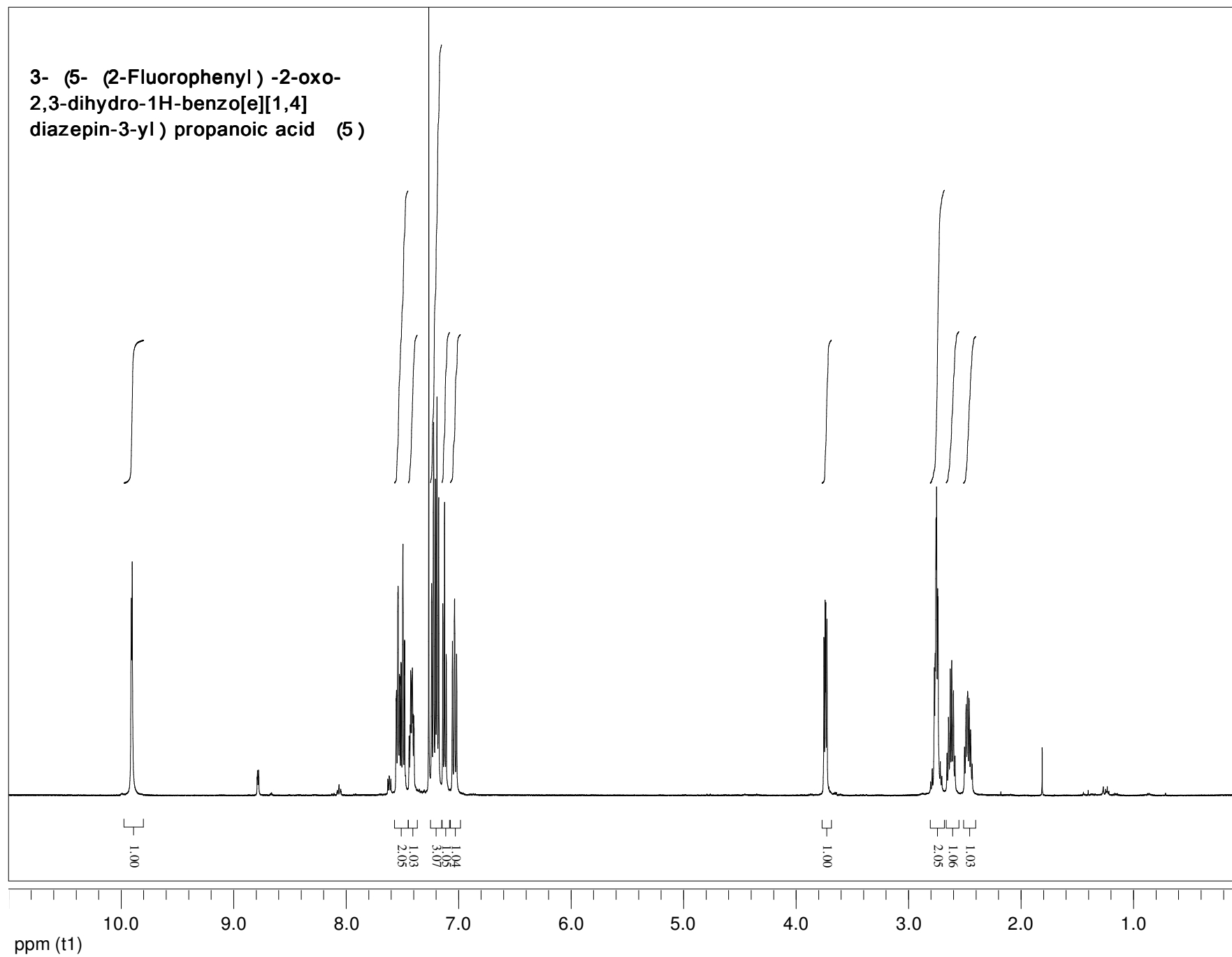
- ¹H and APT ¹³C NMR spectra of compounds **4-6** and the RCA hapten in CDCl₃
- HPLC conditions and traces for the compounds **4-6** and the RCA hapten

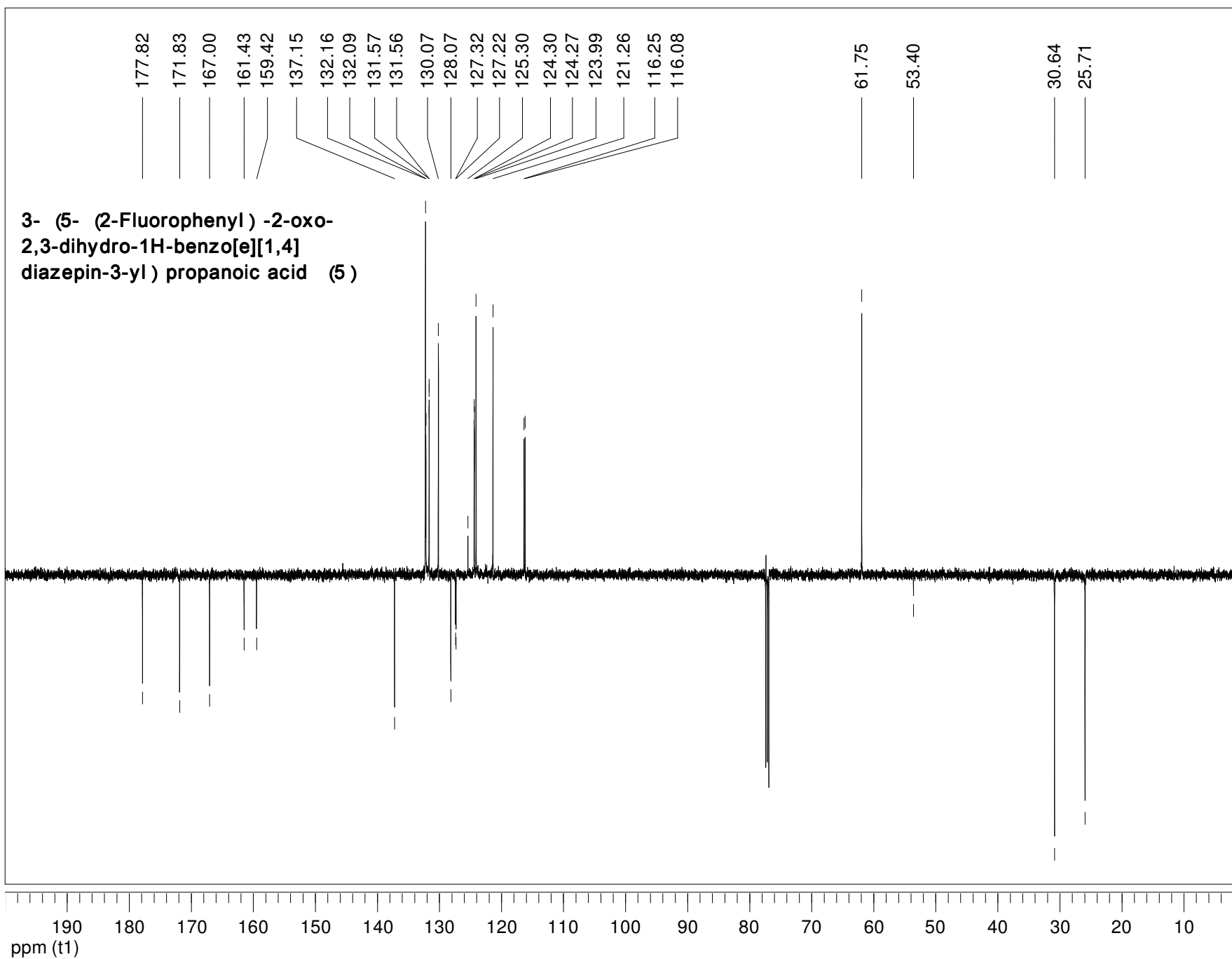
4-tert-Butoxycarbonylamino-4-[2- (2-fluoro-benzoyl) -phenylcarbamoyl]-butyric acid tert-butyl ester (4)



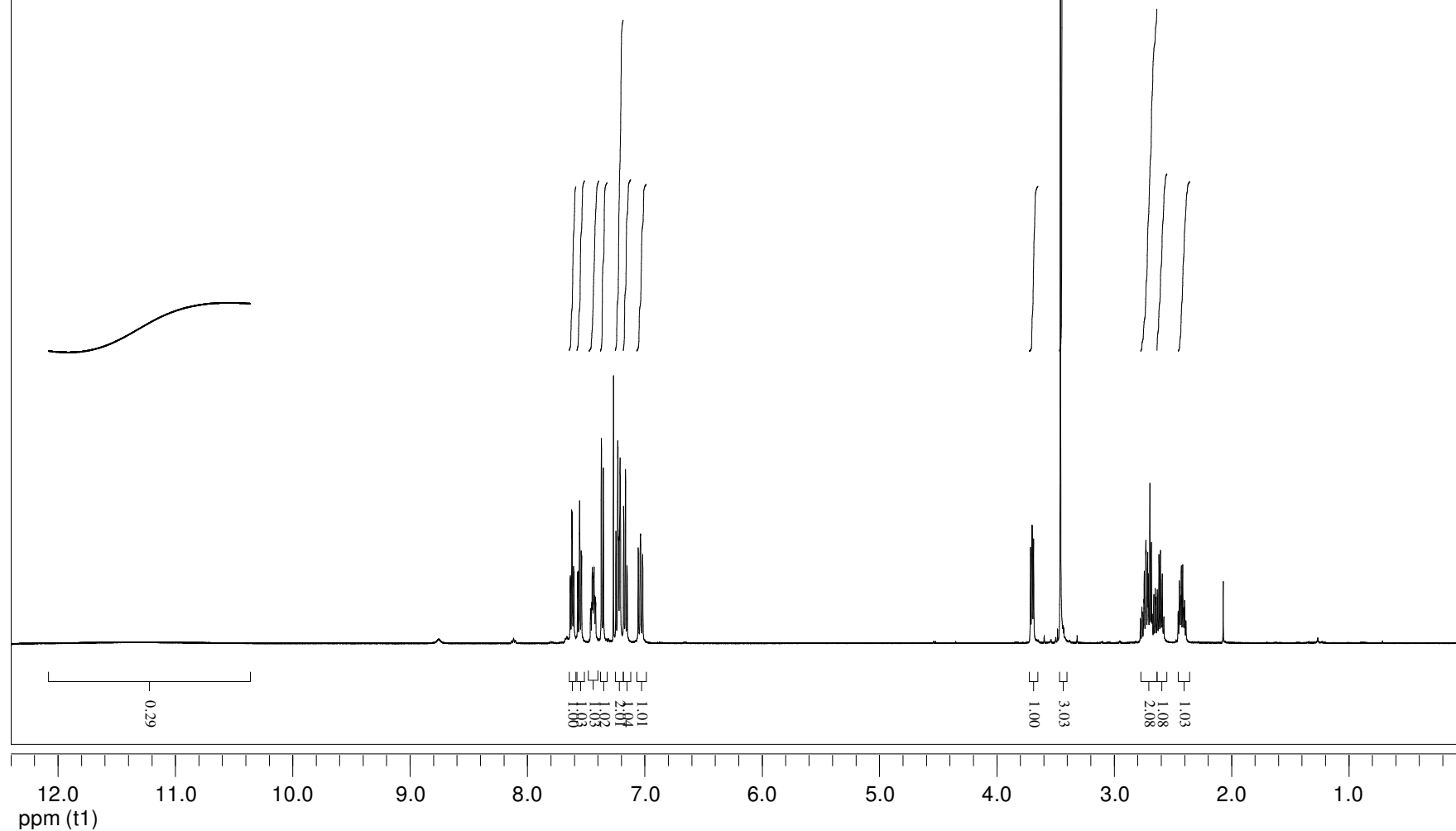


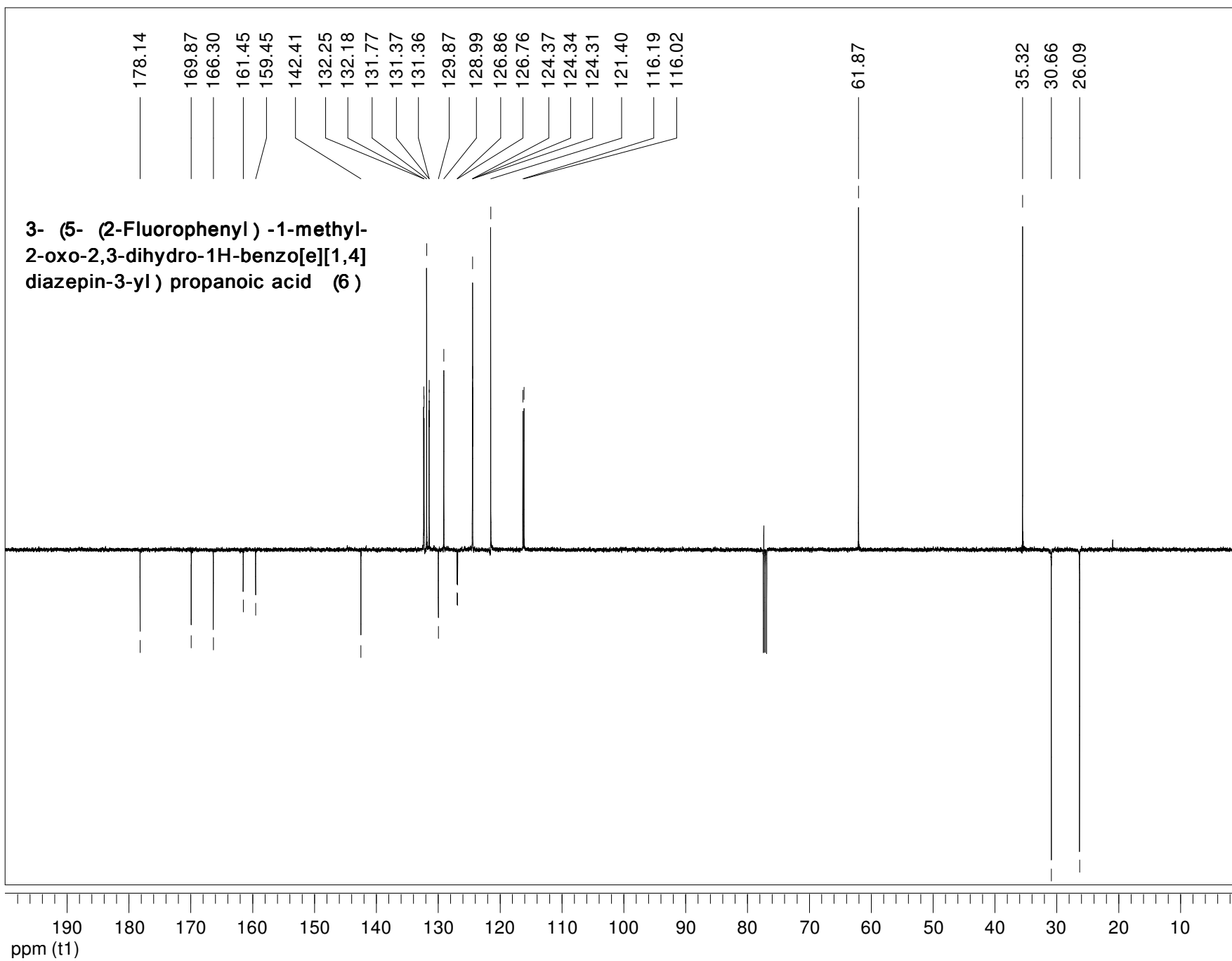
3- (5- (2-Fluorophenyl) -2-oxo-
2,3-dihydro-1H-benzo[e][1,4]
diazepin-3-yl) propanoic acid (5)



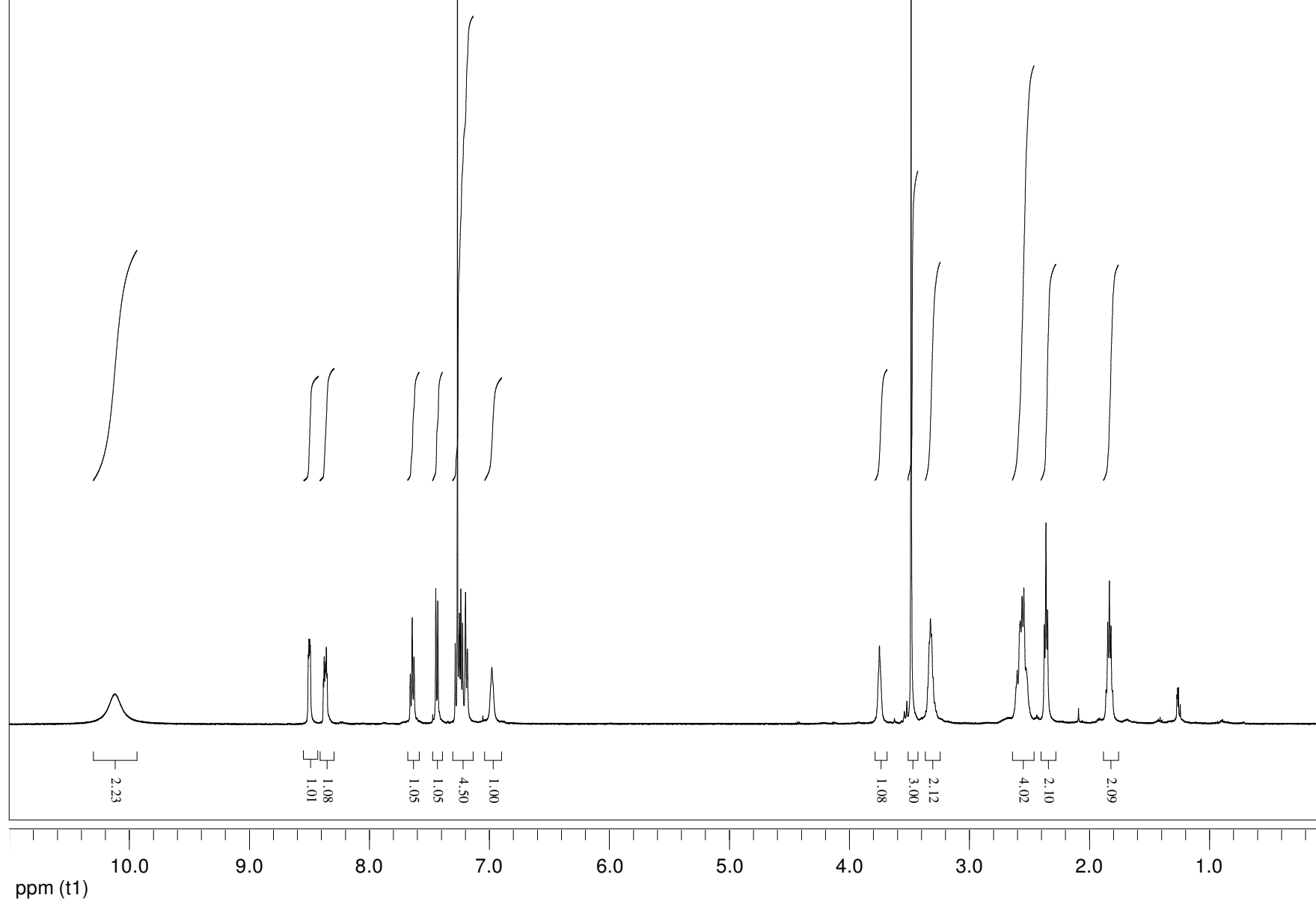


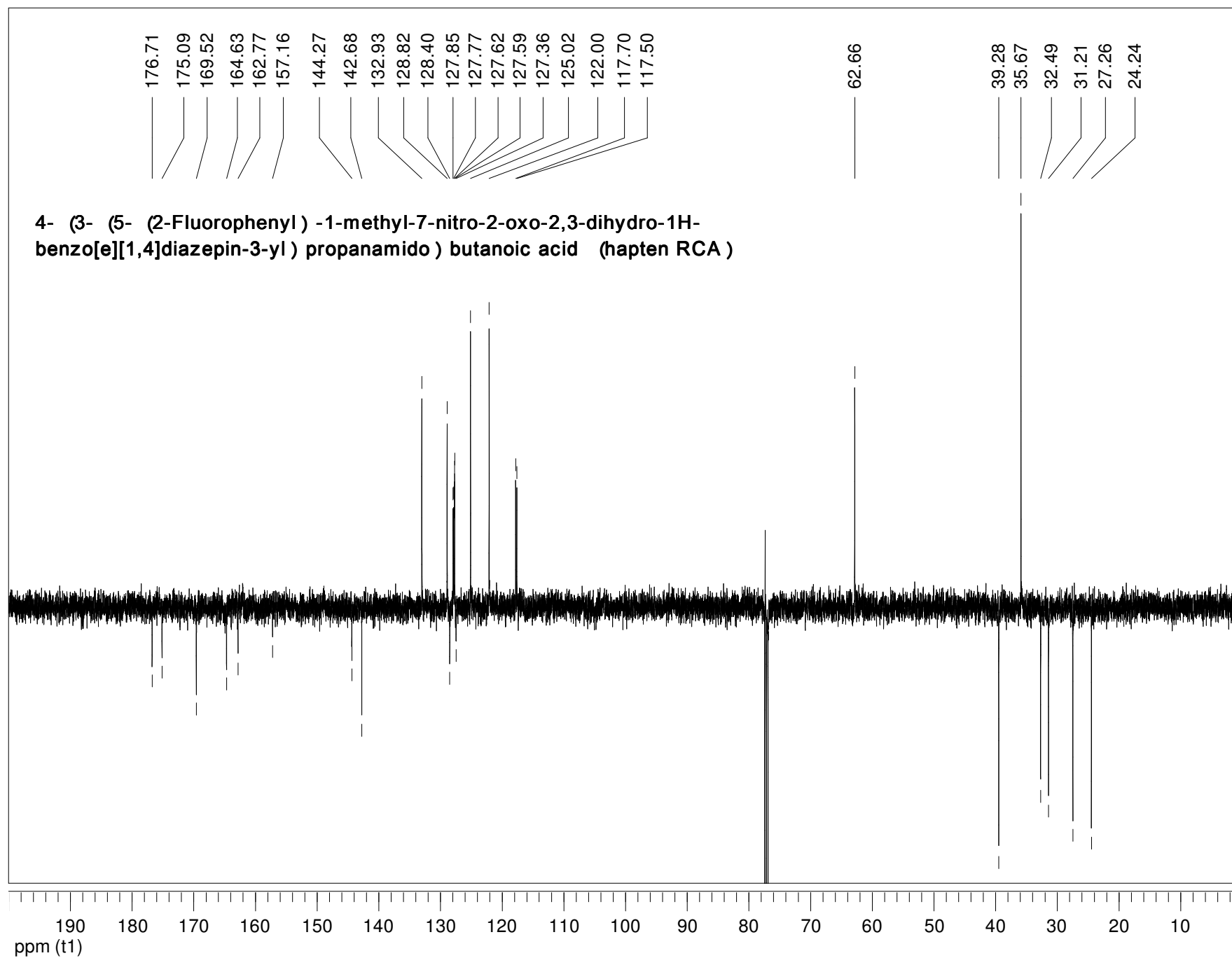
3- (5- (2-Fluorophenyl) -1-methyl-
2-oxo-2,3-dihydro-1H-benzo[e][1,4]
diazepin-3-yl) propanoic acid (6)





4- (3- (5- (2-Fluorophenyl) -1-methyl-7-nitro-2-oxo-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl) propanamido) butanoic acid (hapten RCA)





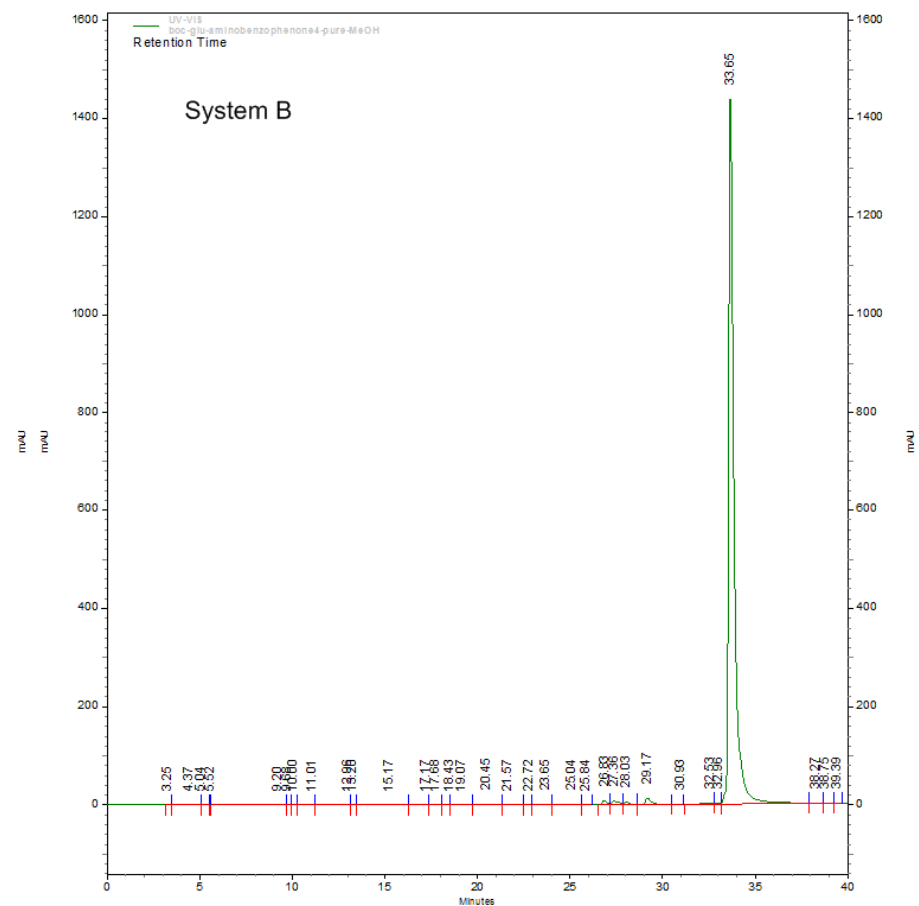
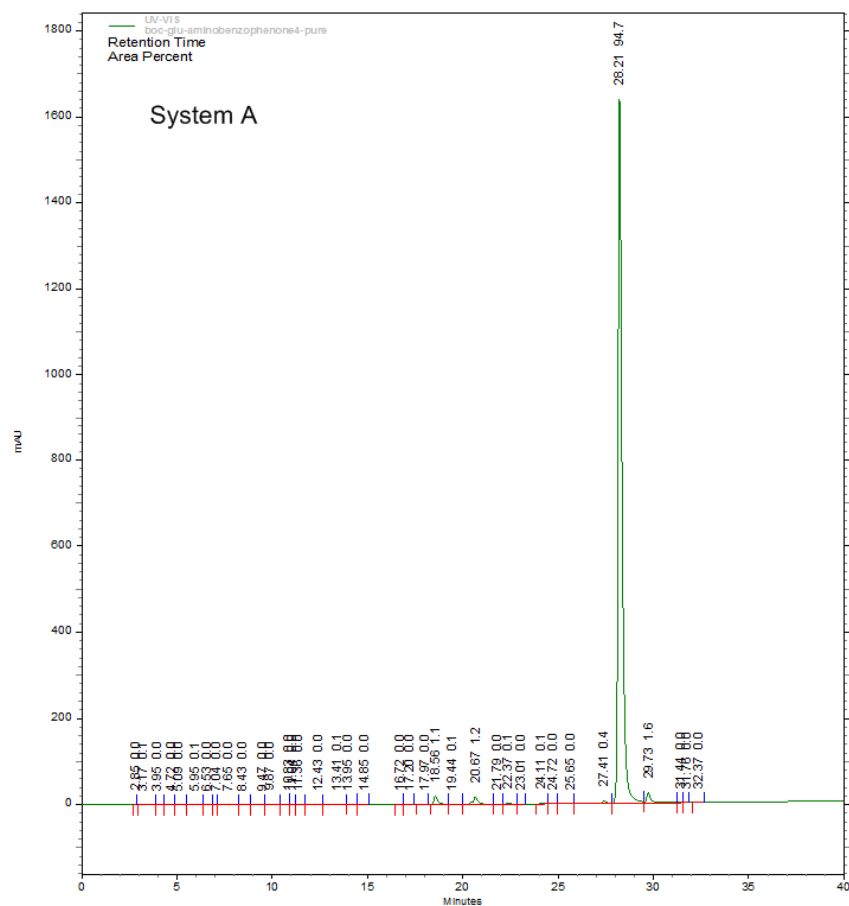
Analytical HPLC conditions:

The purity of the synthesized compounds was checked by analytical reverse-phase HPLC on a Hitachi Elite LaChrom L-2000 series HPLC chromatograph using a Vydac C₁₈ 218TP104 column (Western Analytical Products, Murrieta, CA) at a flow rate of 1 mL/min and the column temperature of 35°C, monitored at 254 nm.

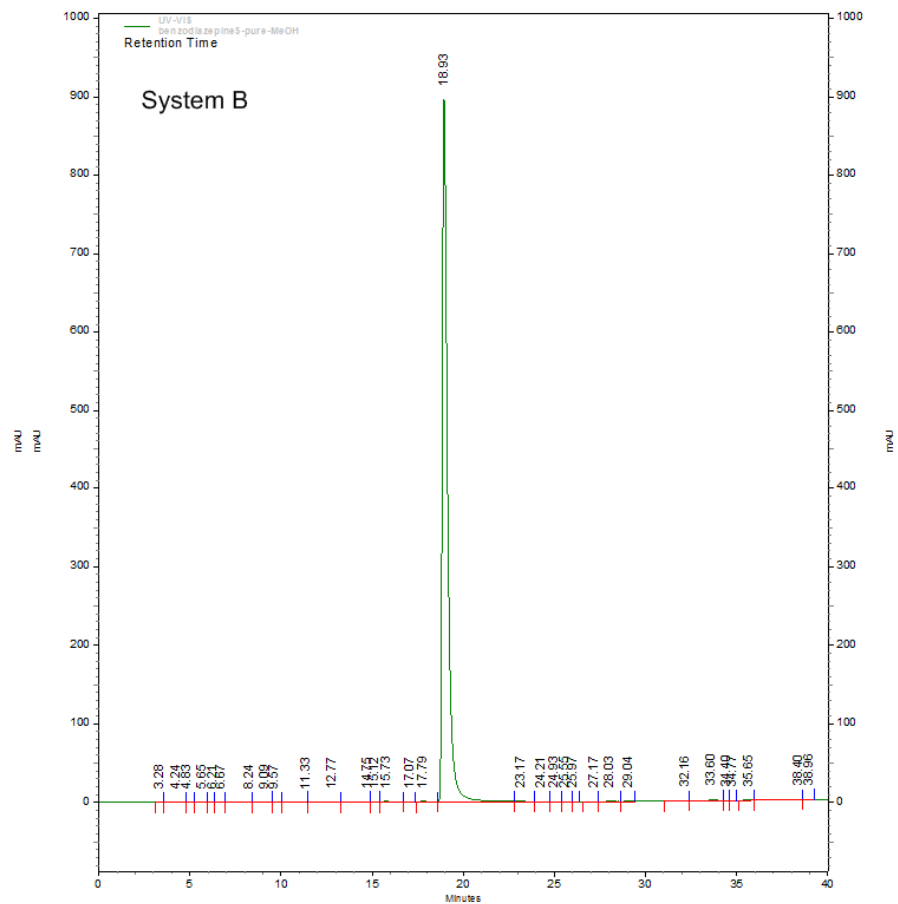
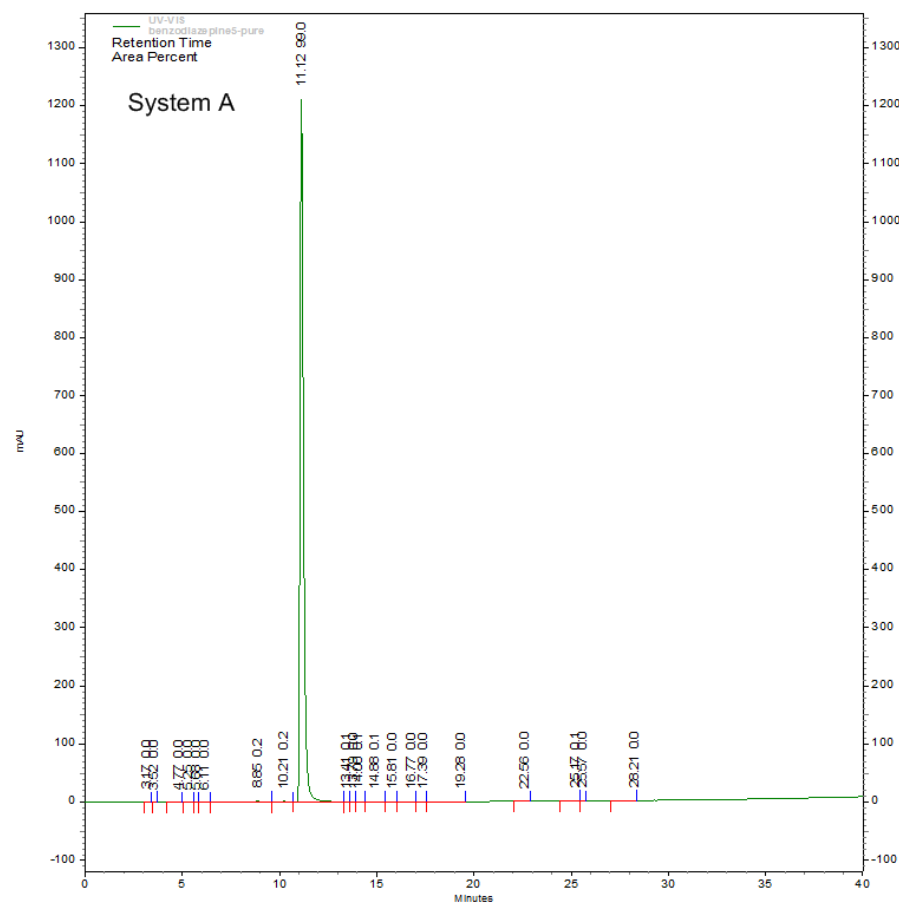
System A: 10% to 95% acetonitrile-0.09% TFA/water-0.1% TFA over 40 min

System B: 10% to 95% methanol/water-0.1% TFA over 40 min

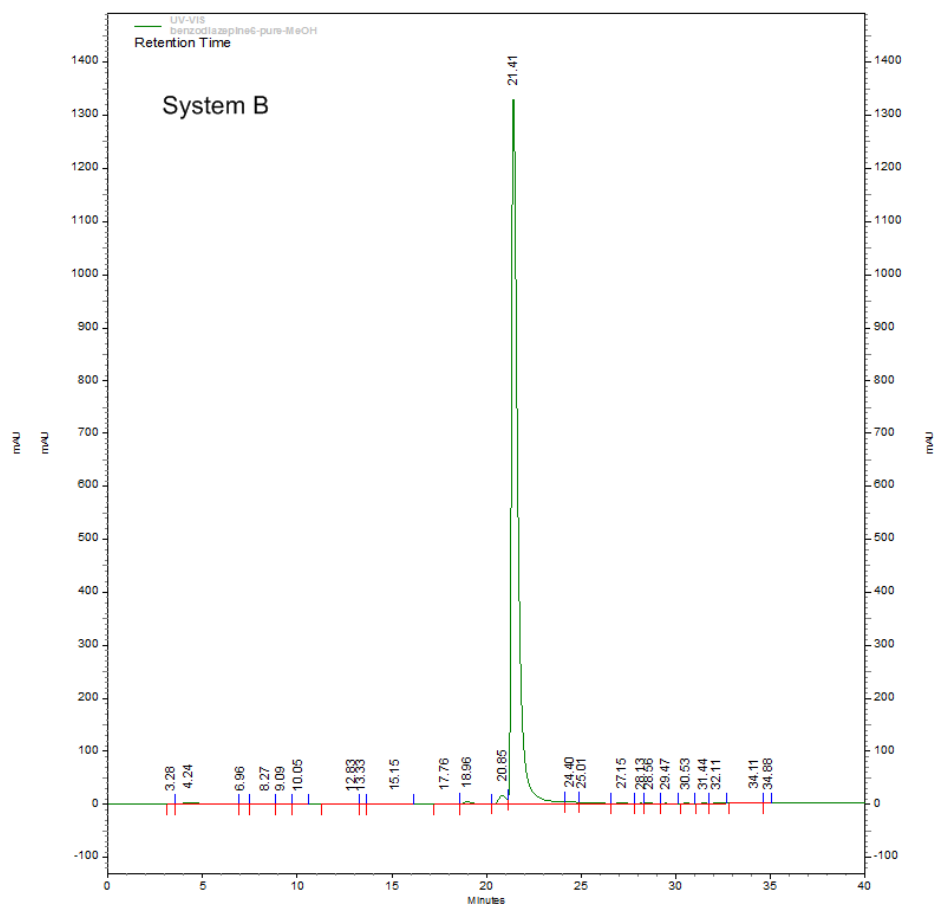
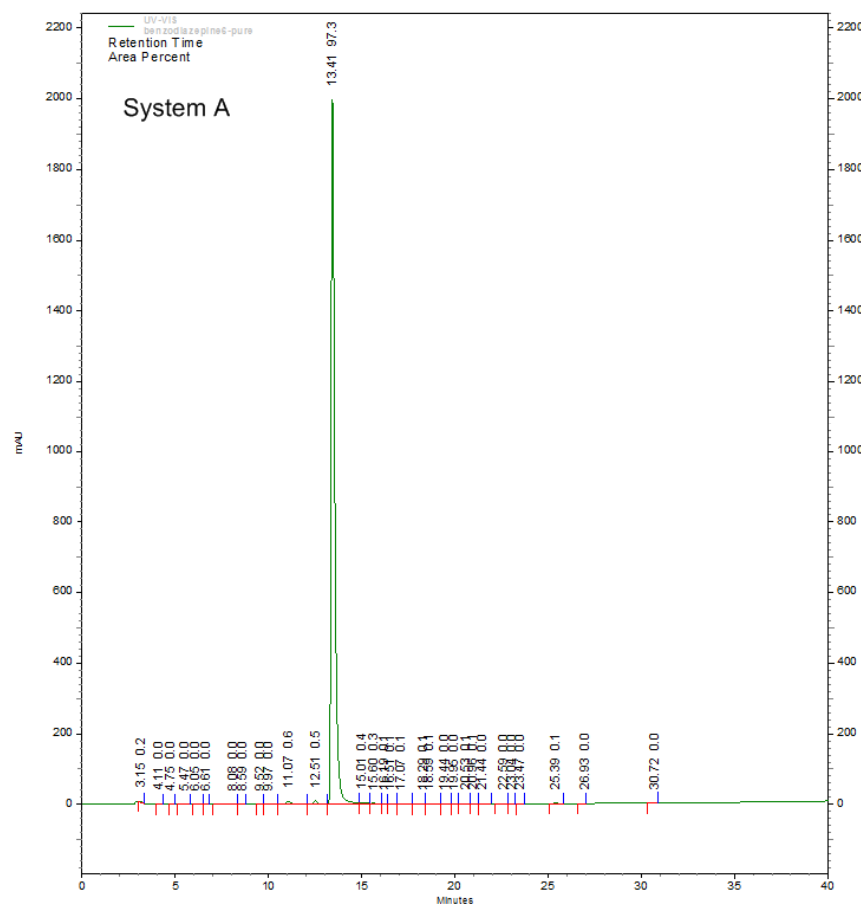
tert-Butyl 4-(*tert*-butoxycarbonylamino)-5-(2-(2-fluorobenzoyl)phenylamino)-5-oxopentanoate (**4**)



3-(5-(2-Fluorophenyl)-2-oxo-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)propanoic acid (**5**)



3-(5-(2-Fluorophenyl)-1-methyl-2-oxo-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)propanoic acid (**6**)



4-(3-(5-(2-Fluorophenyl)-1-methyl-7-nitro-2-oxo-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)propanamido)butanoic acid (**hapten RCA**)

