

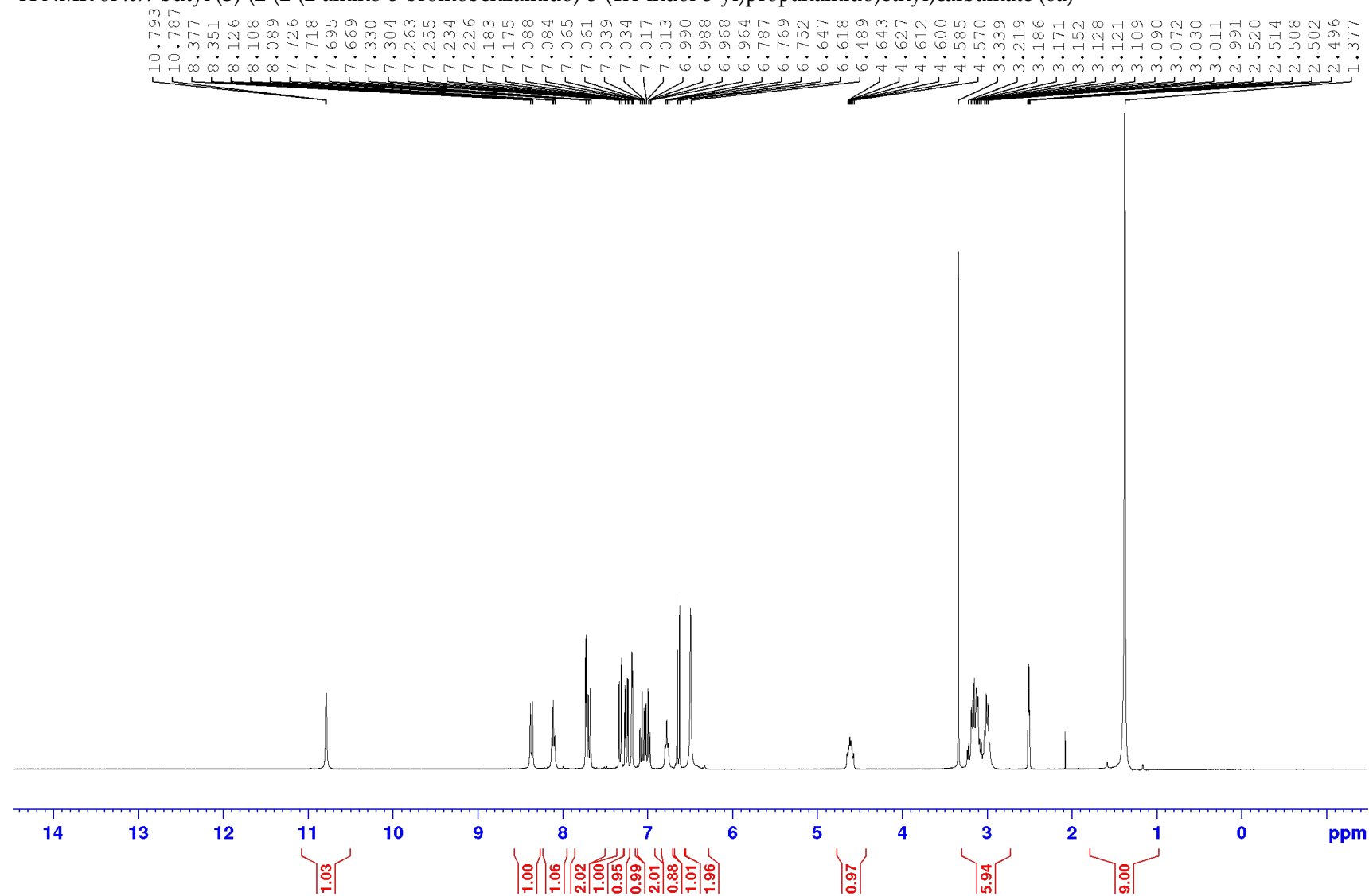
## The Supplementary Data for

### **Tuning the anthranilamide peptidomimetic design to selectively target planktonic bacteria and biofilm**

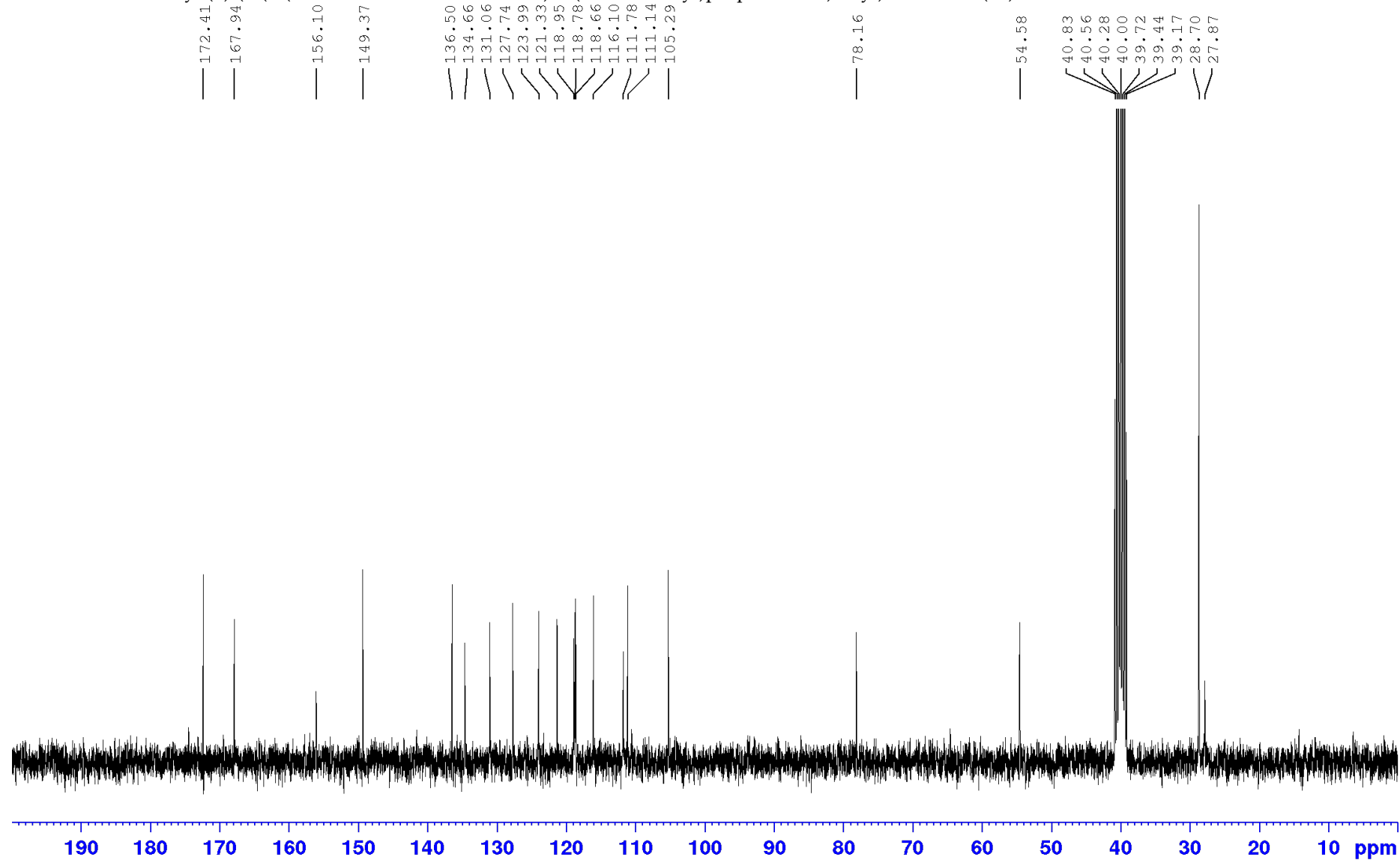
Rajesh Kuppasamy, Muhammad Yasir, Tsz Tin Yu, Florida Voli, Orazio Vittorio, Michael J. Miller, Peter Lewis, David StC Black, Mark Willcox and Naresh Kumar

The analytical data for compounds upto 6a and the intermediate 10a and the final compound 12a were published already [20]

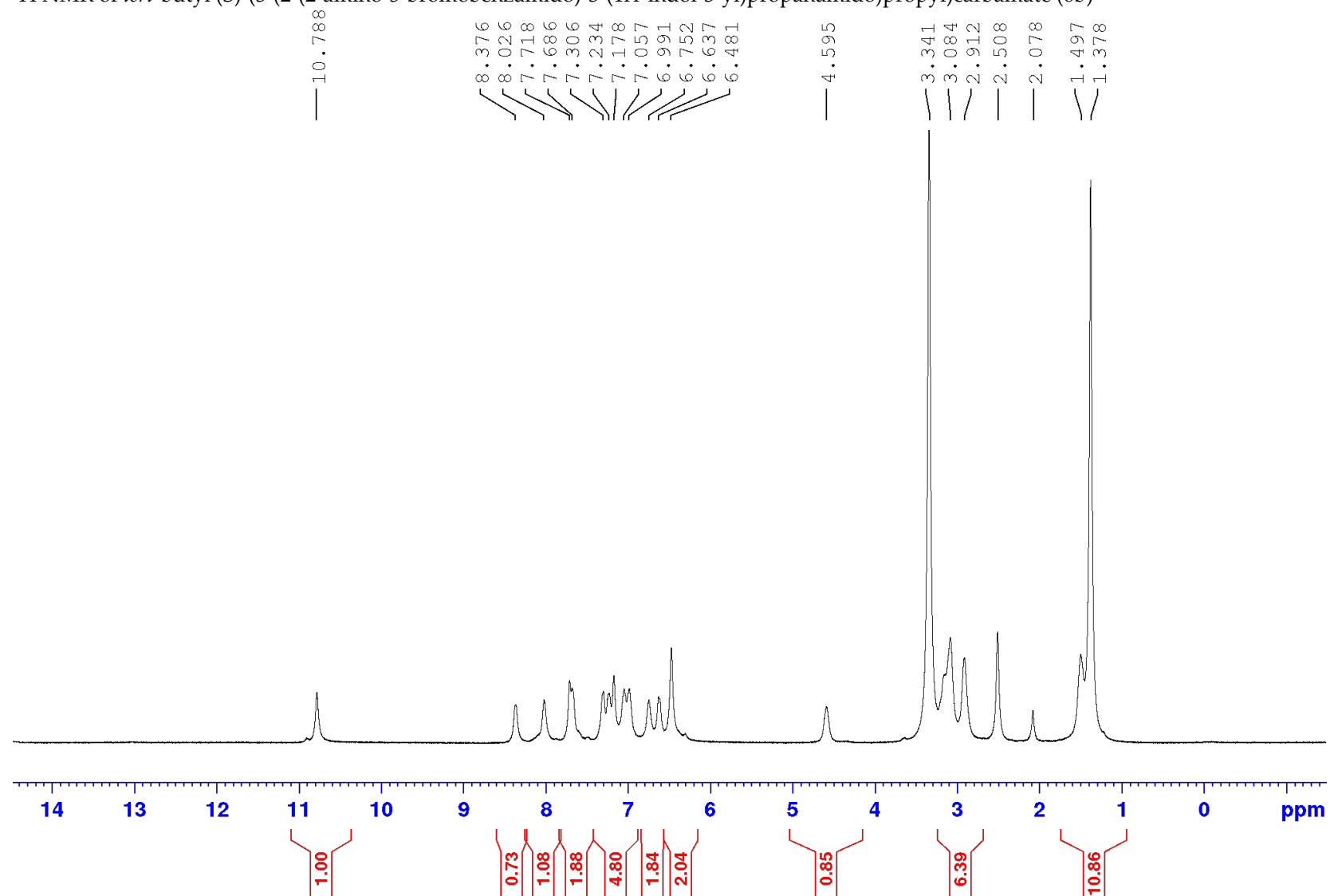
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(2-amino-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (6a)



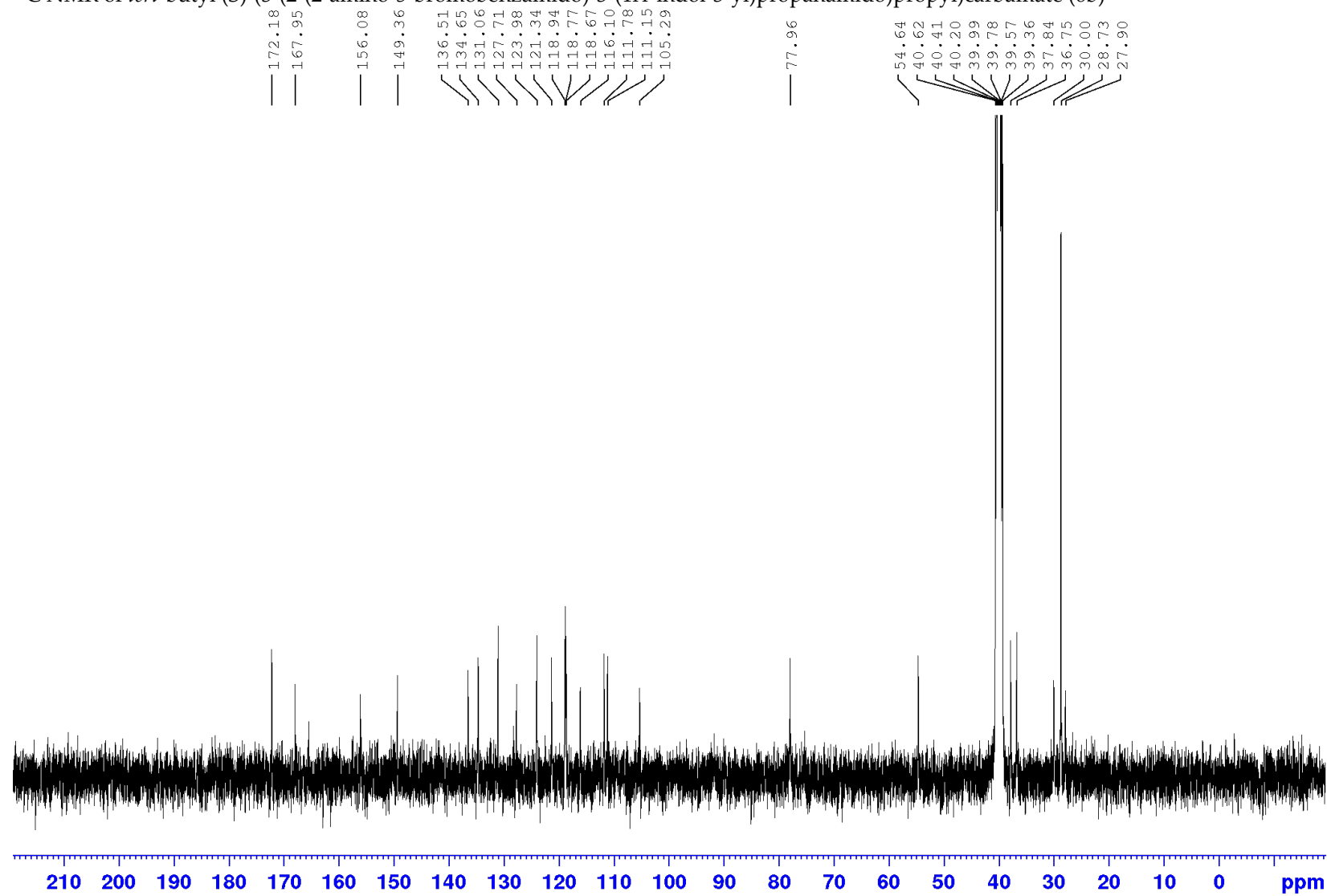
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(2-amino-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (6a)



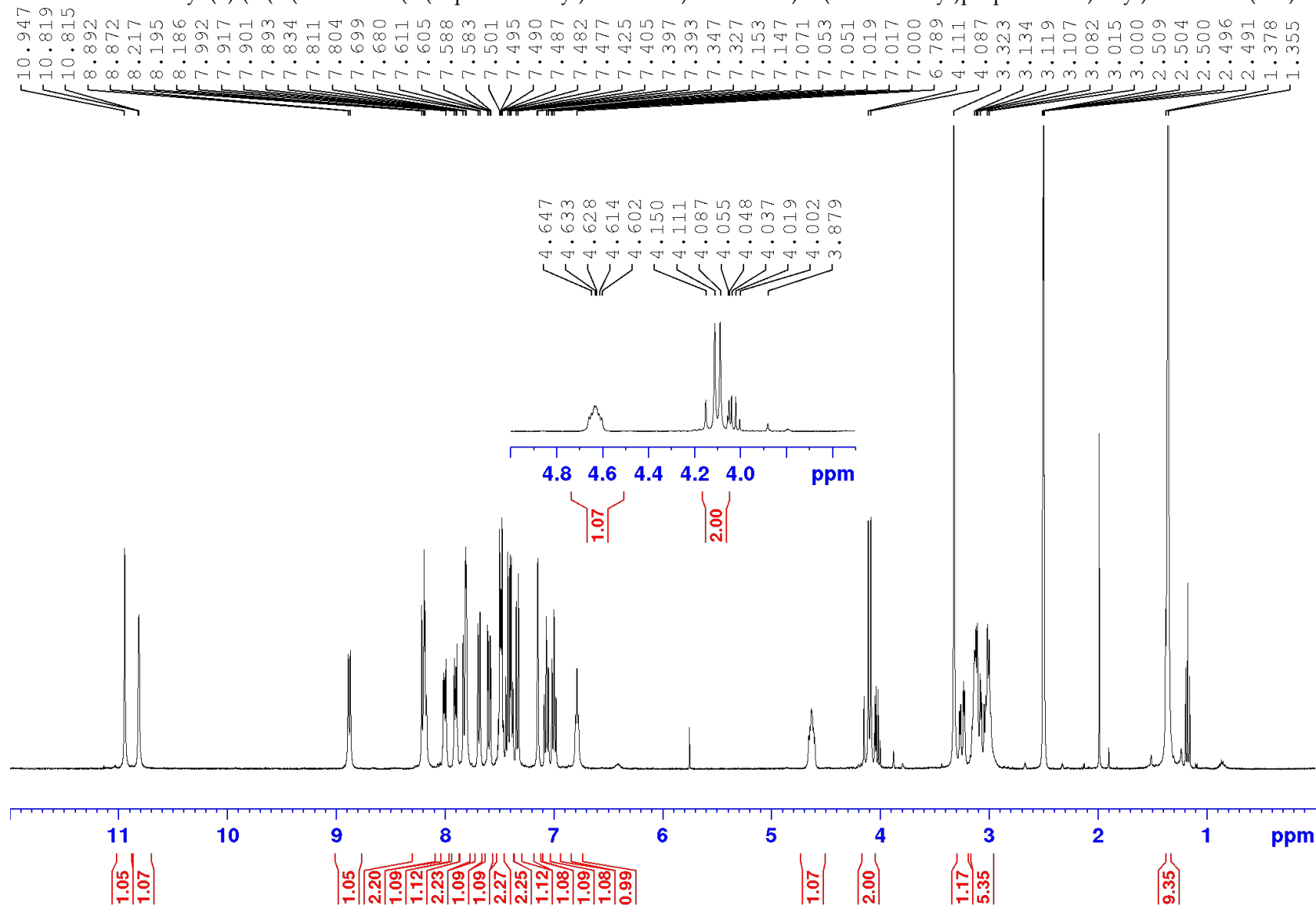
$^1\text{H}$  NMR of *tert*-butyl (S)-(3-(2-(2-amino-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (6b)



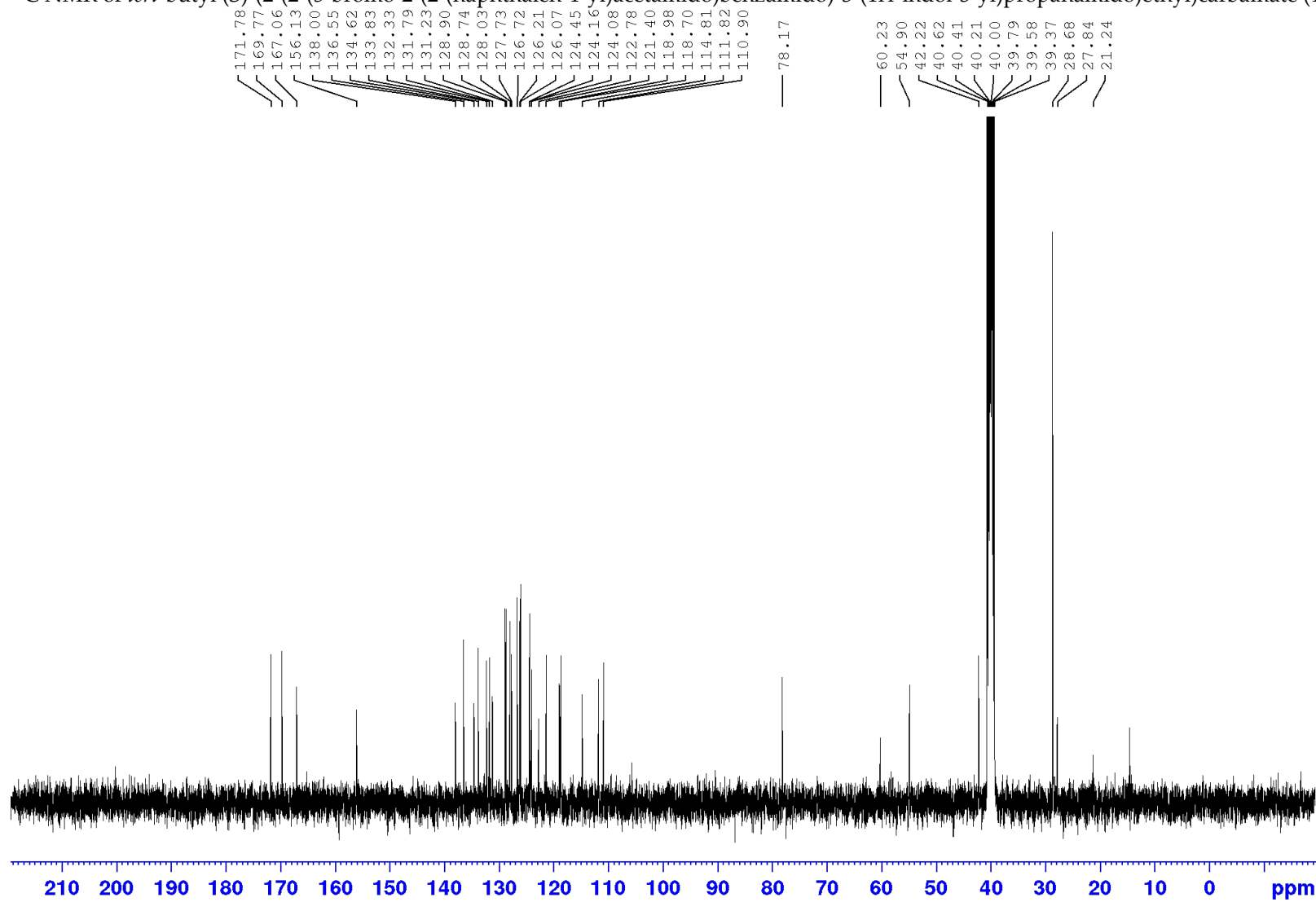
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(3-(2-(2-amino-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (6b)



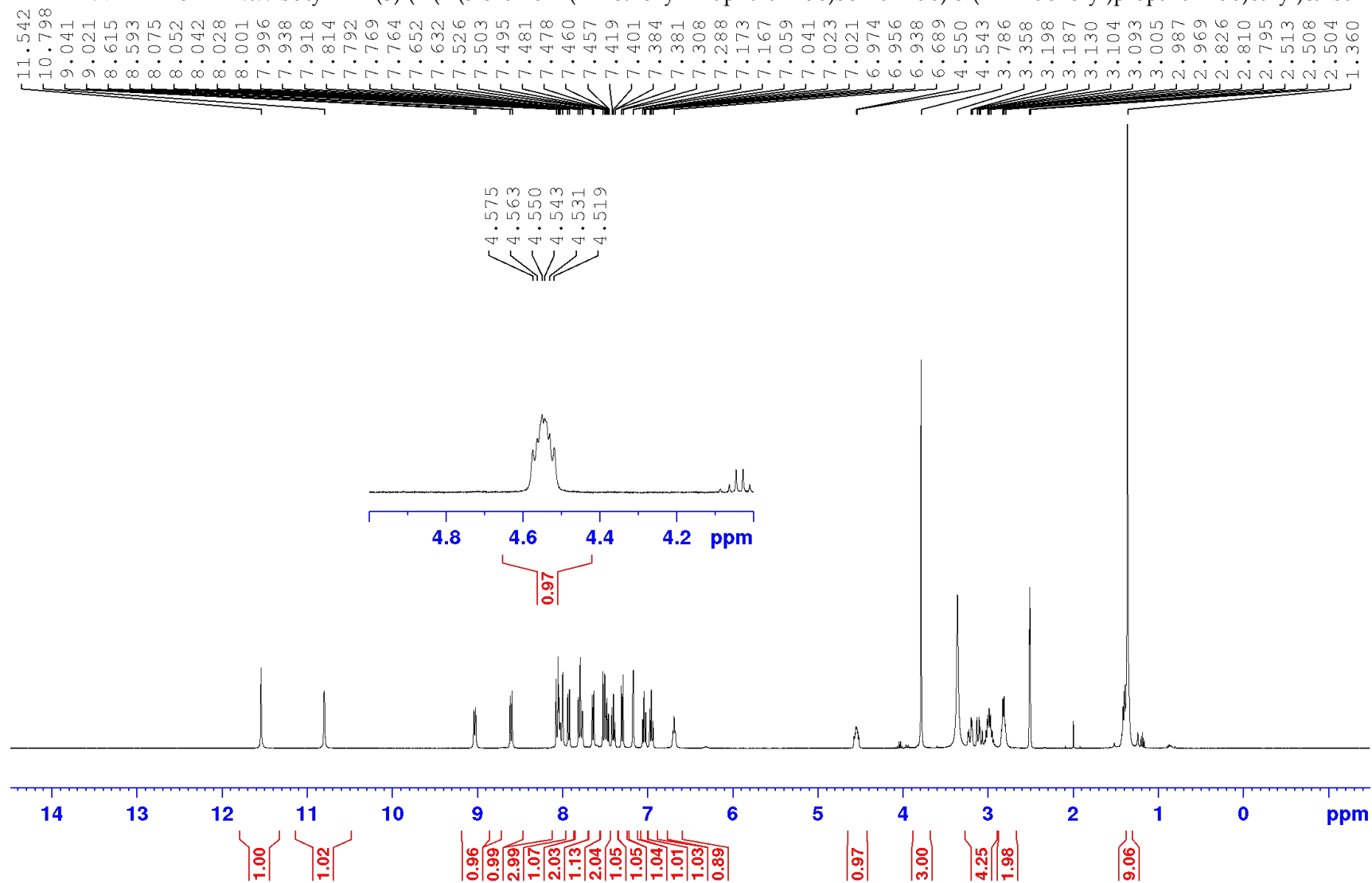
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (10b)



$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (10b)

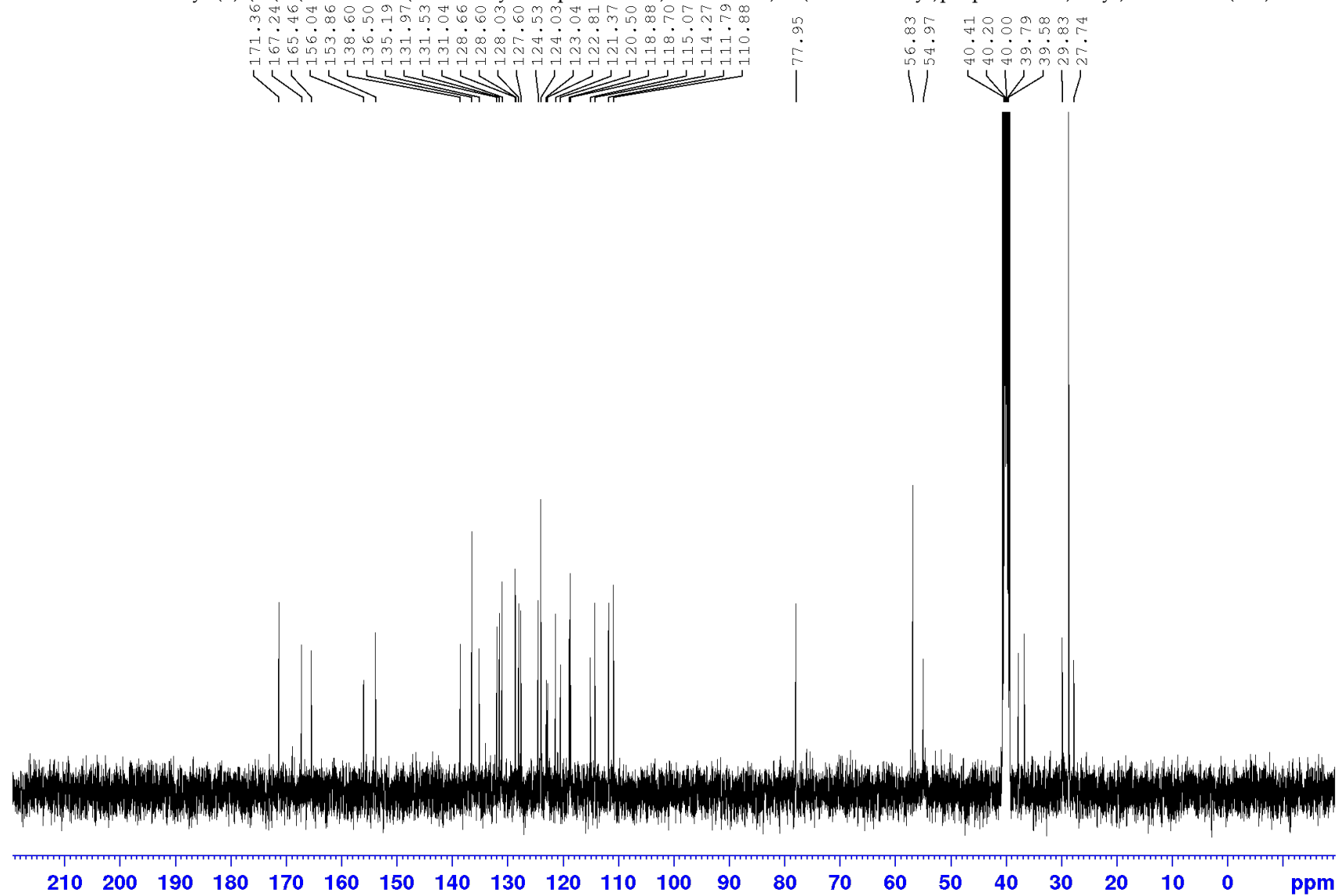


<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(2-methoxy-1-naphthamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10c)

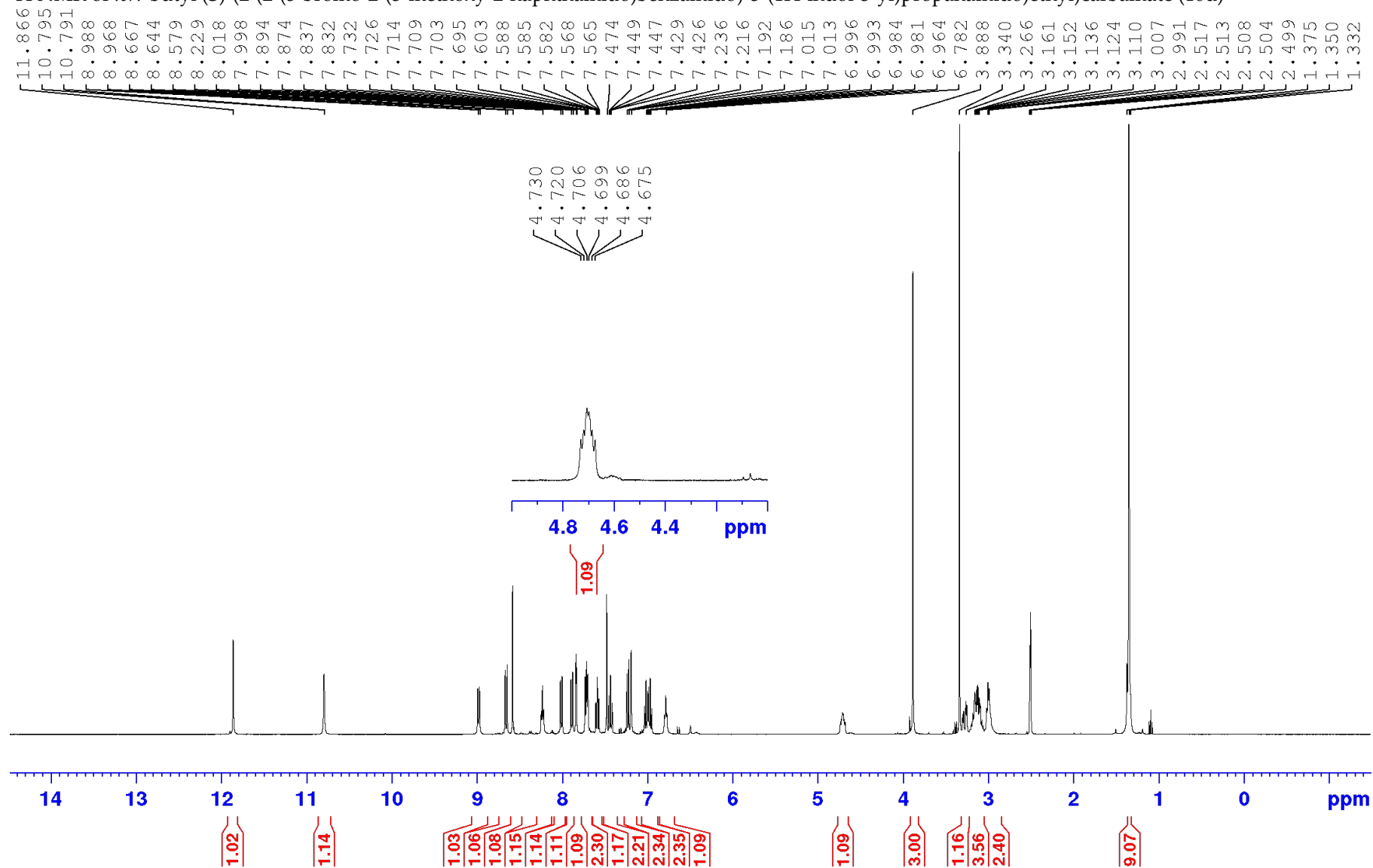




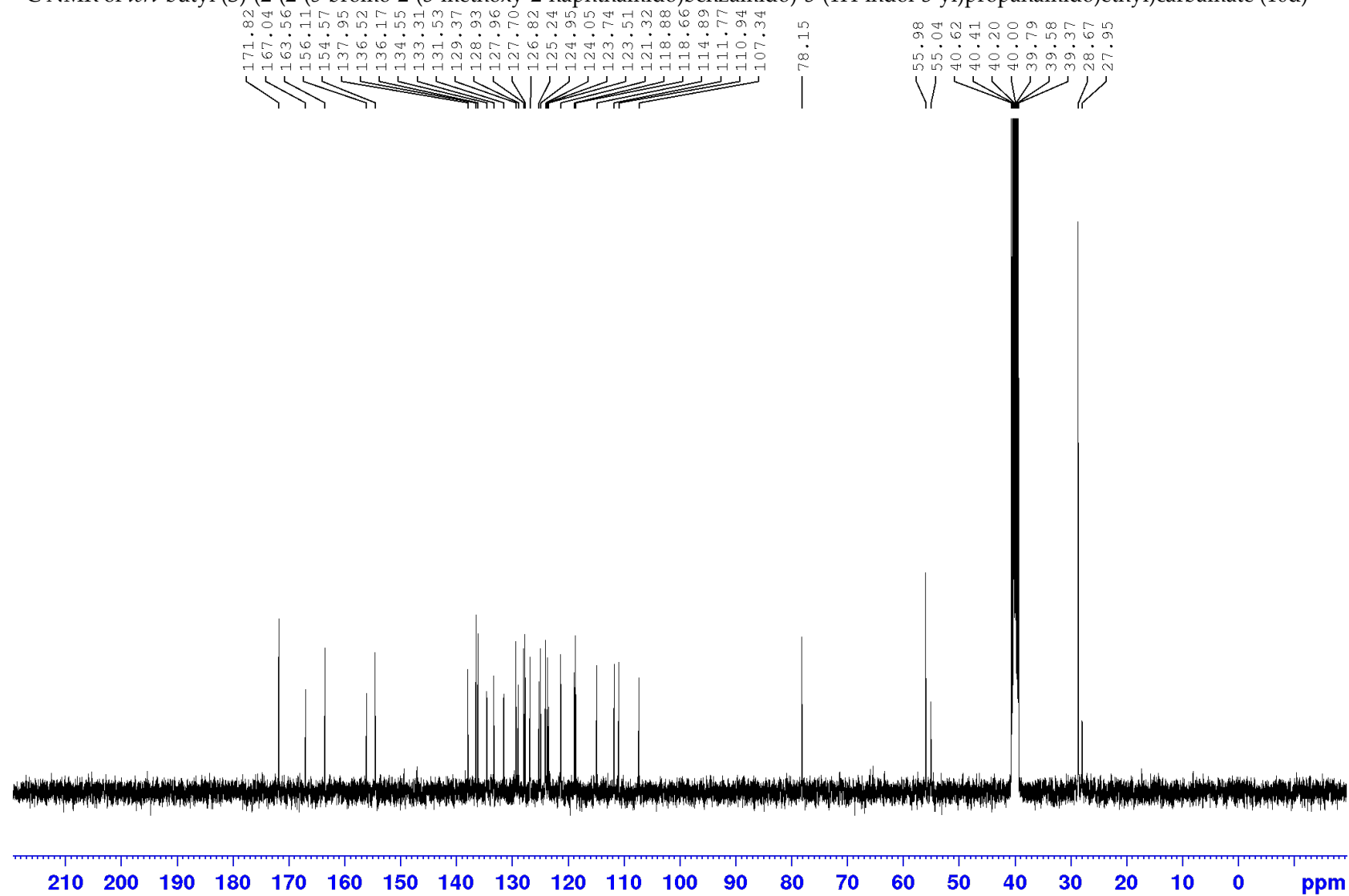
$^{13}\text{C}$  NMR of *tert*-butyl (S)-2-(2-(5-bromo-2-(2-methoxy-1-naphthamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl carbamate (10c)



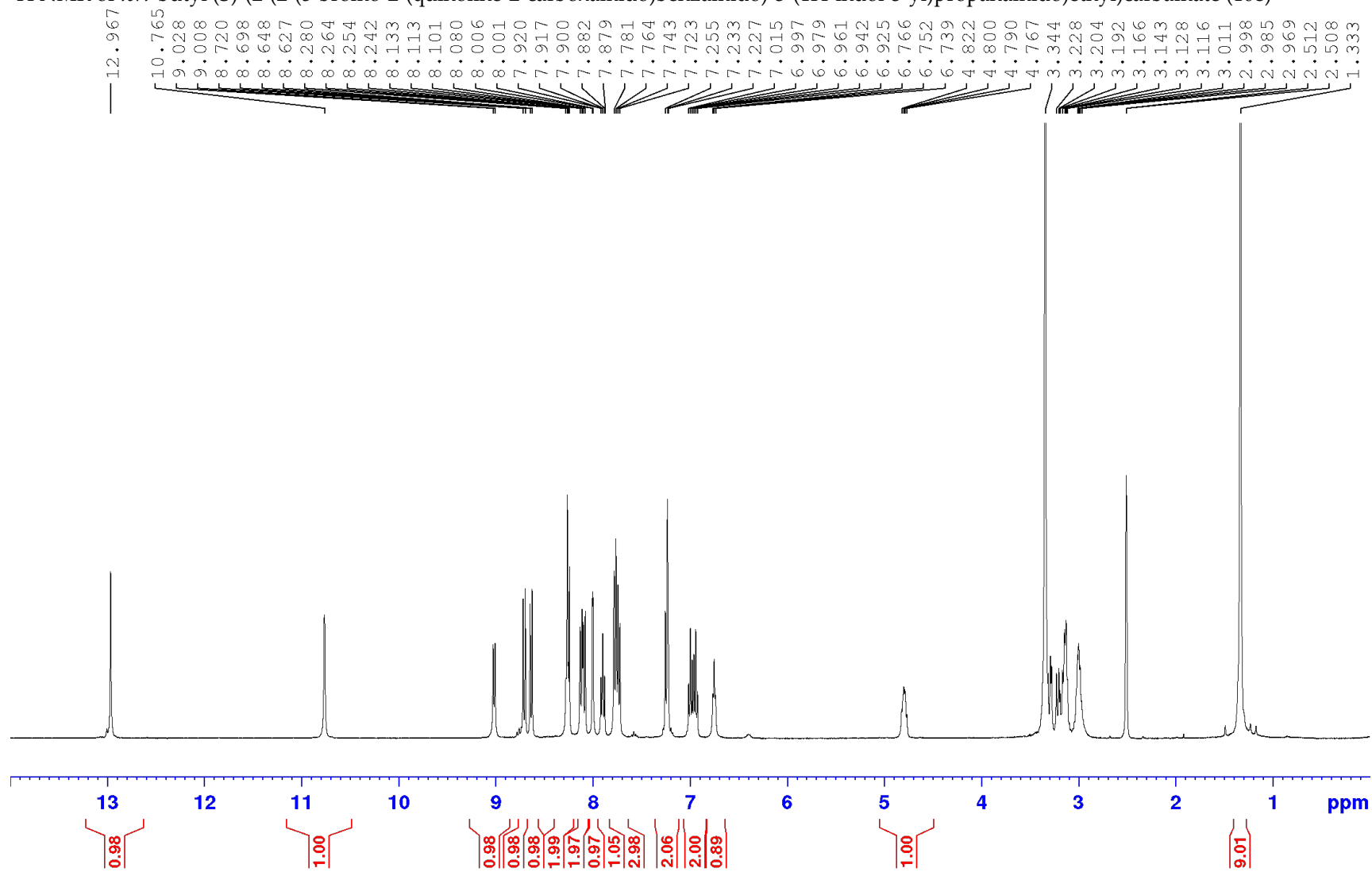
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(3-methoxy-2-naphthamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10d)



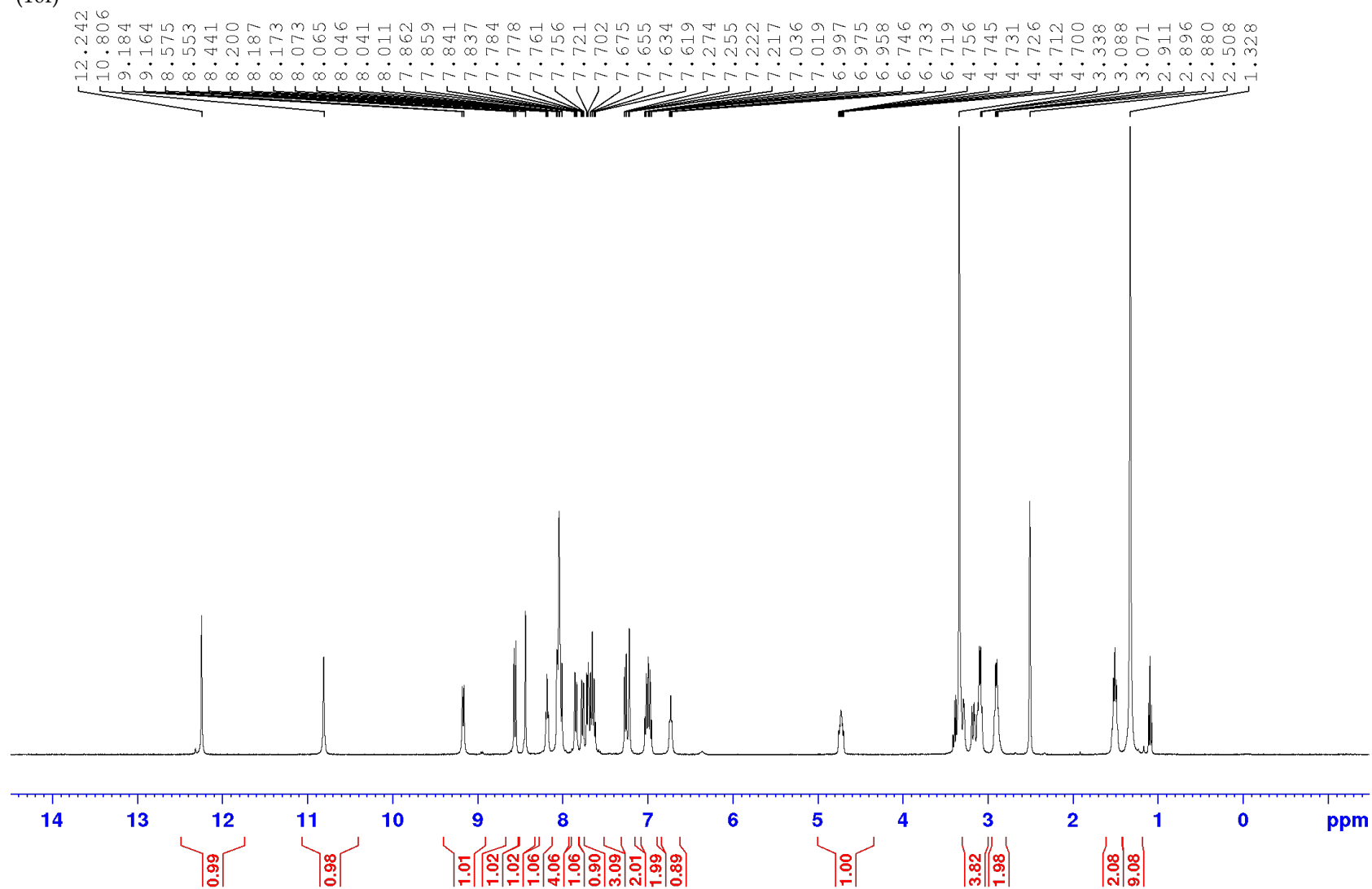
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(3-methoxy-2-naphthamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10d)



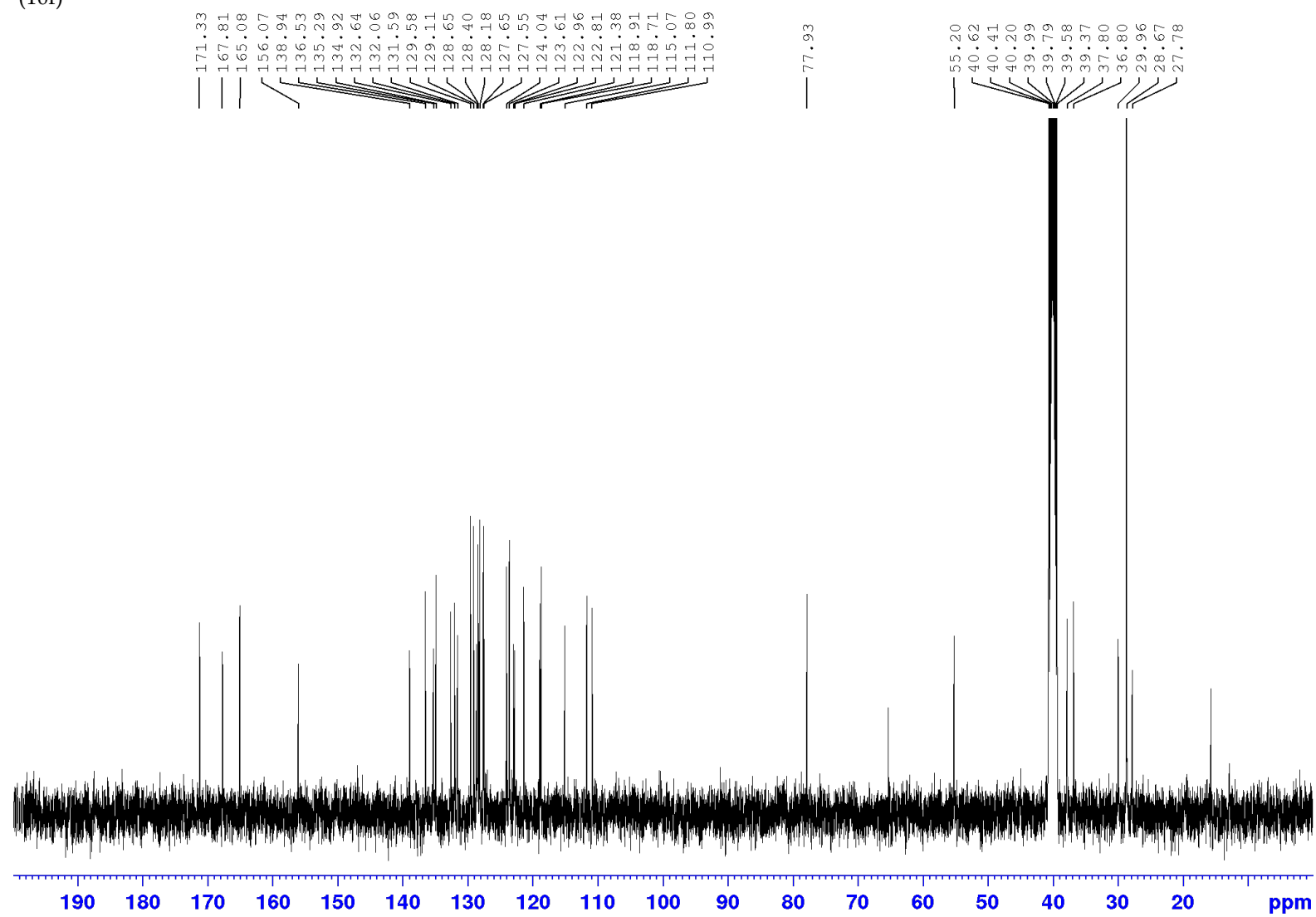
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(quinoline-2-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10e)



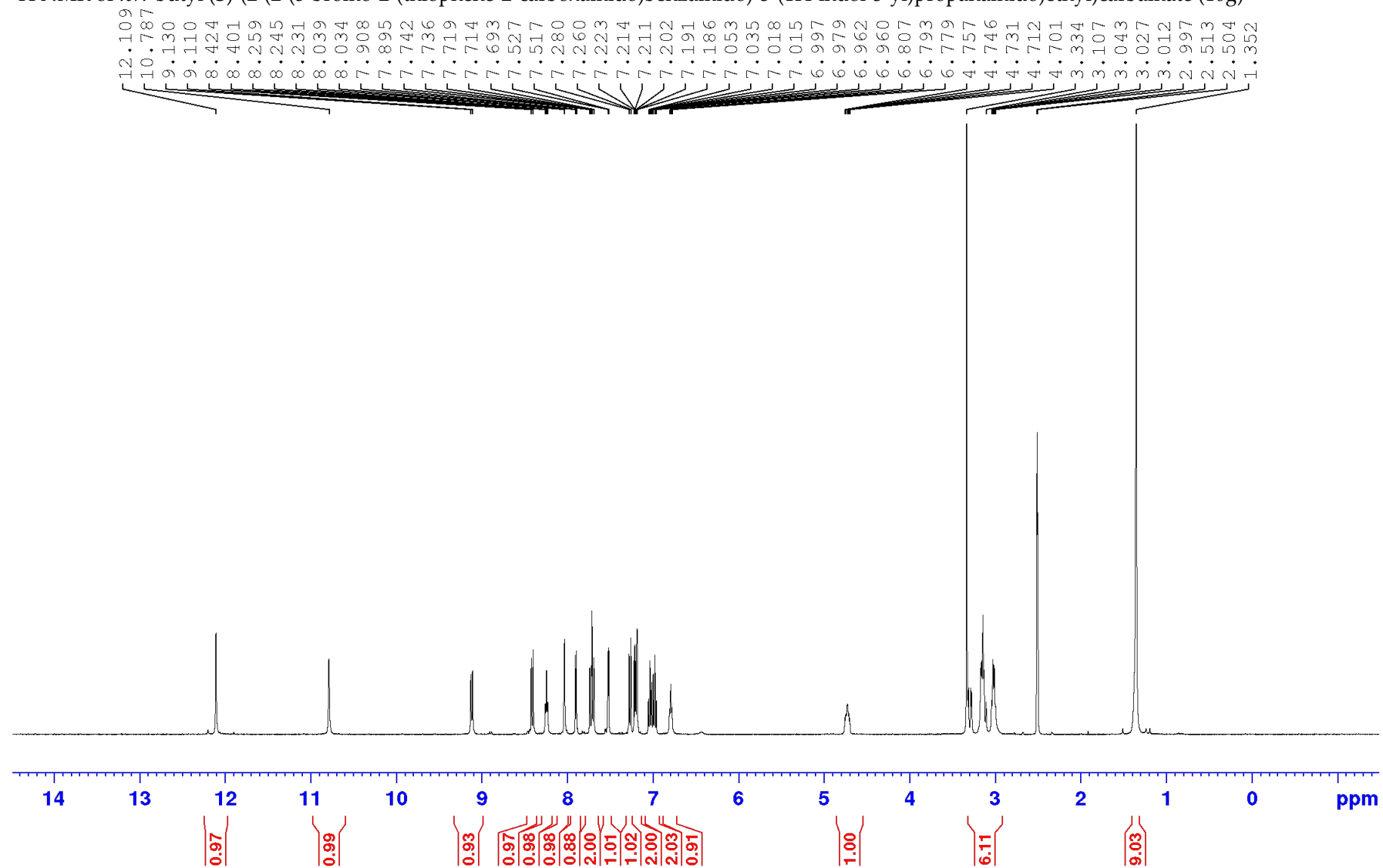
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(1H-indole-2-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10f)



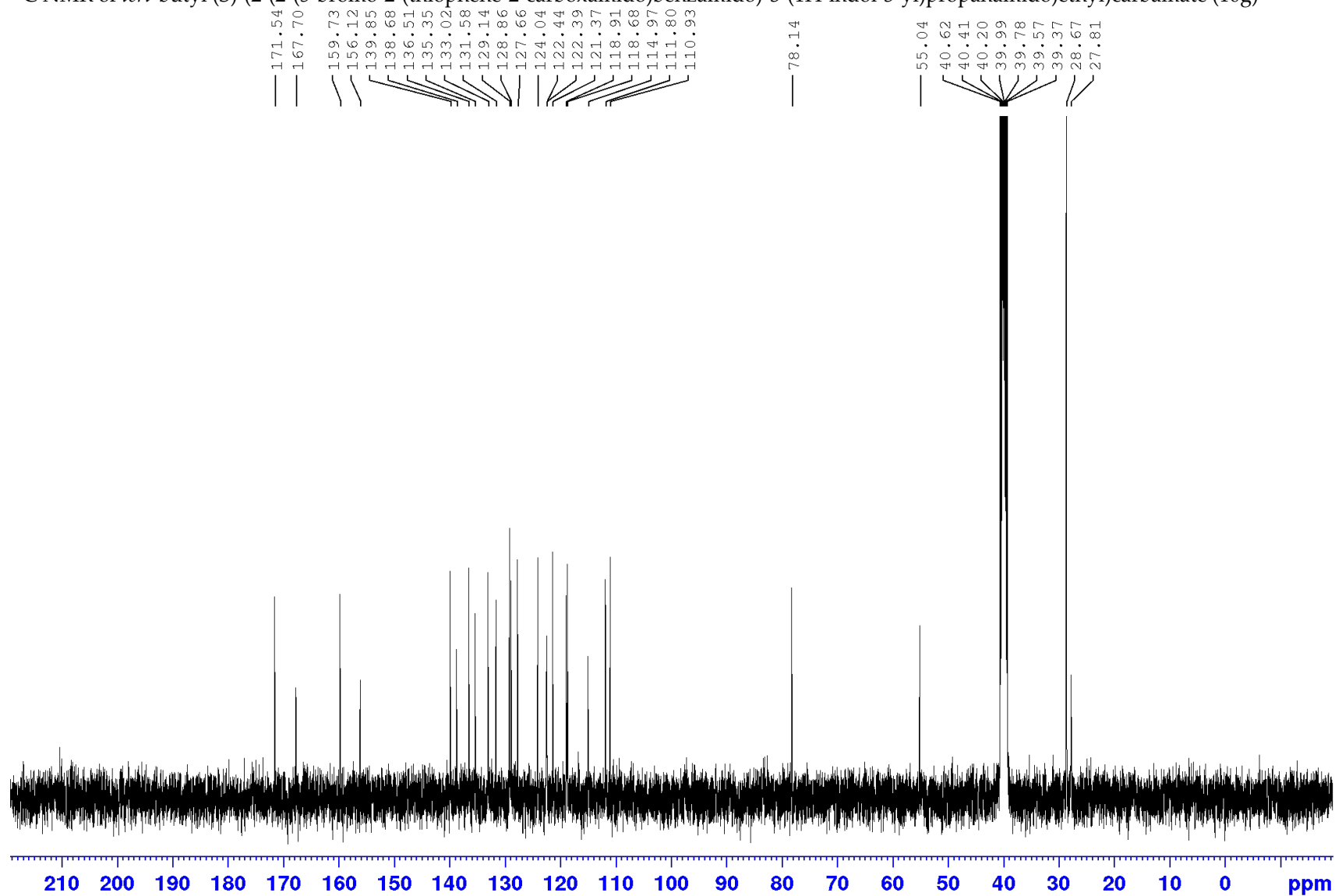
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(1H-indole-2-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10f)



<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(thiophene-2-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10g)

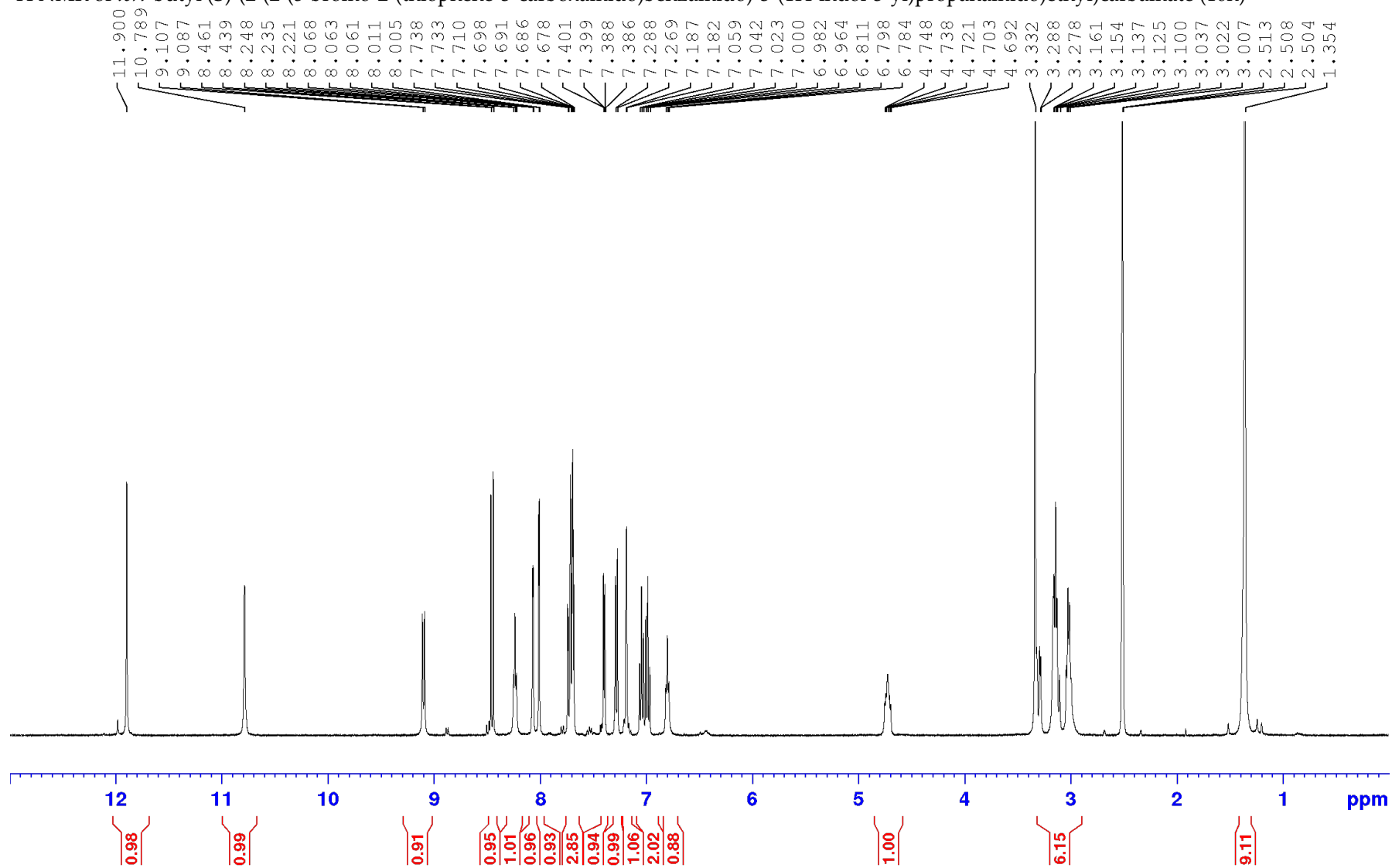


$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(thiophene-2-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10g)

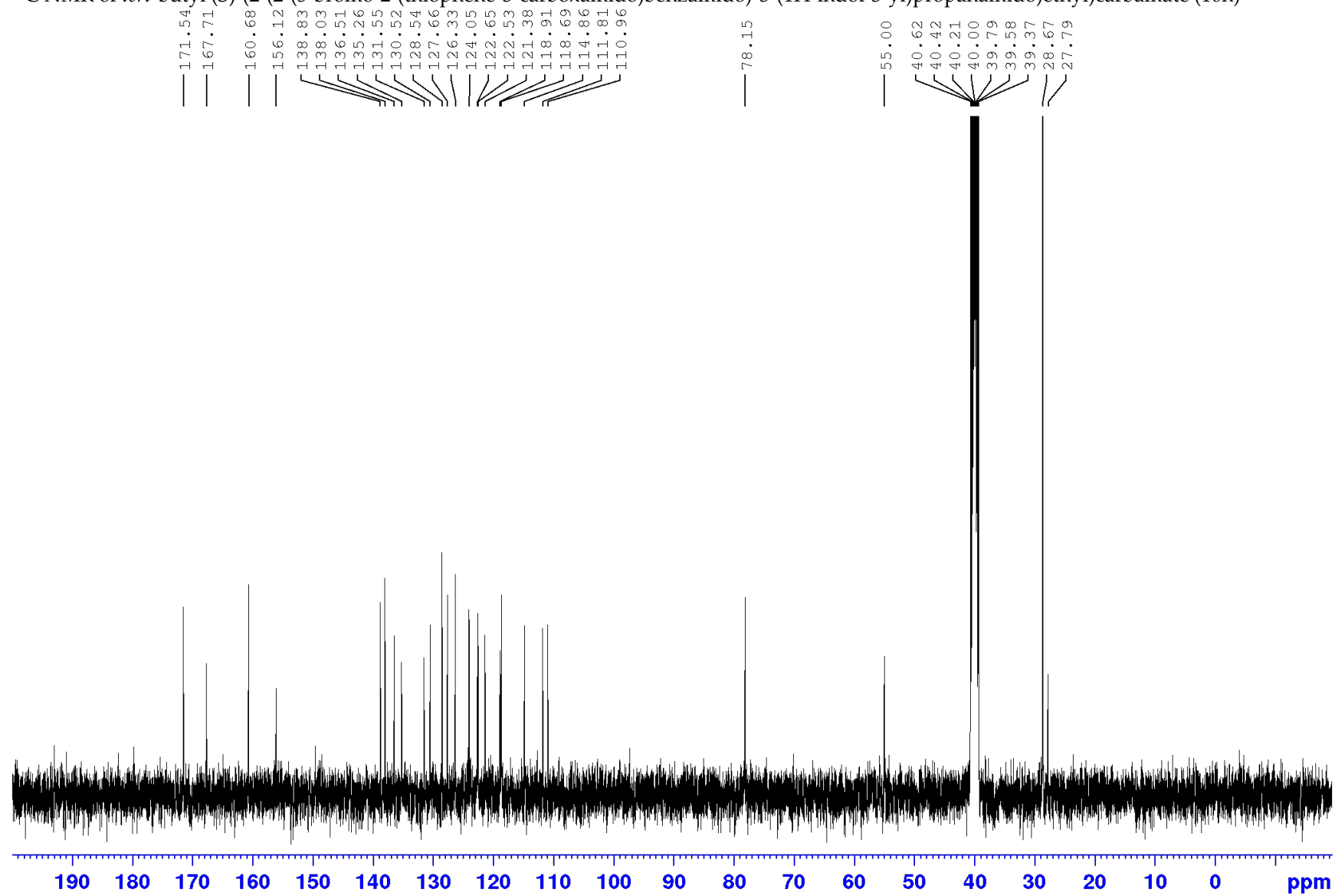




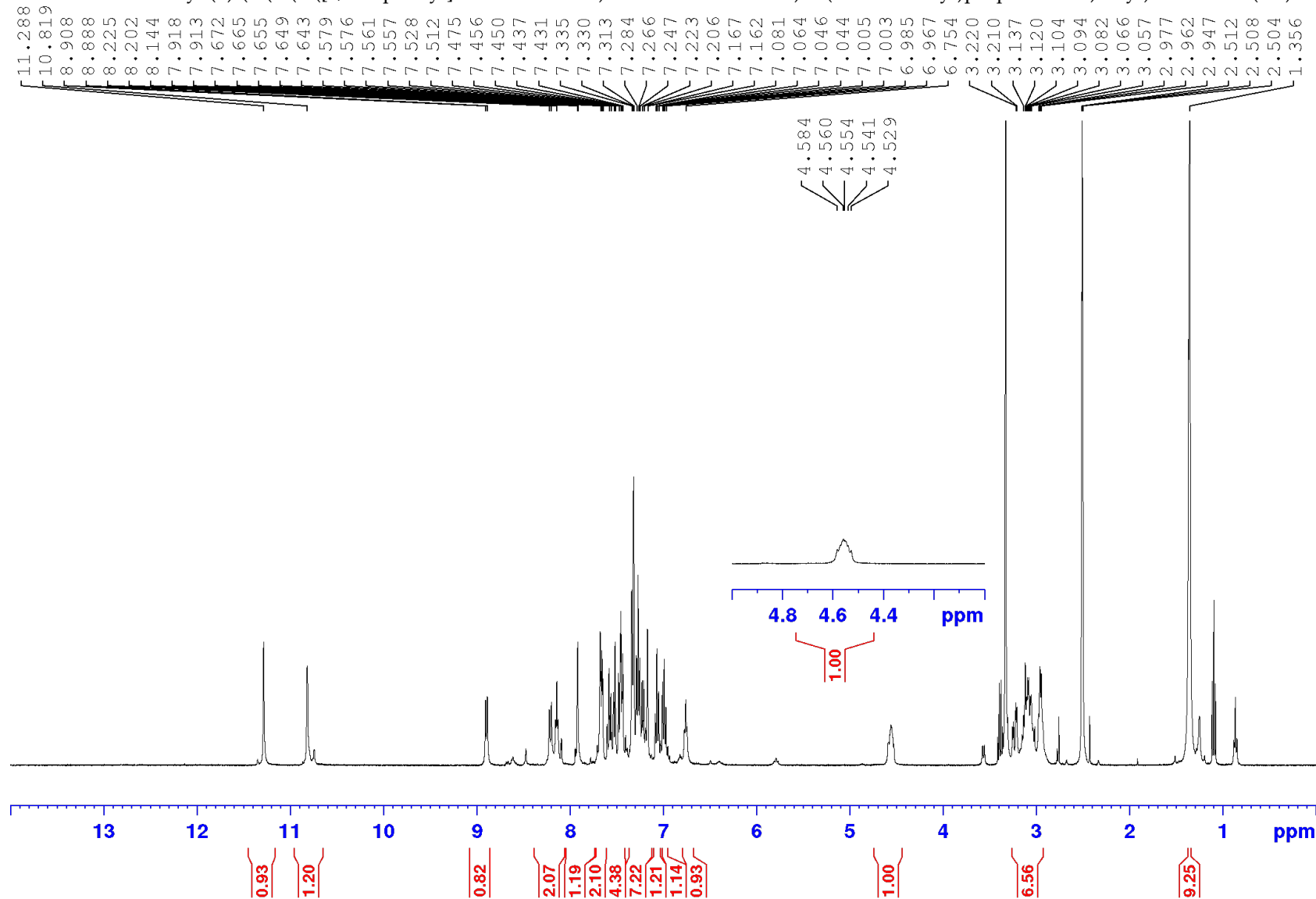
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(thiophene-3-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10h)



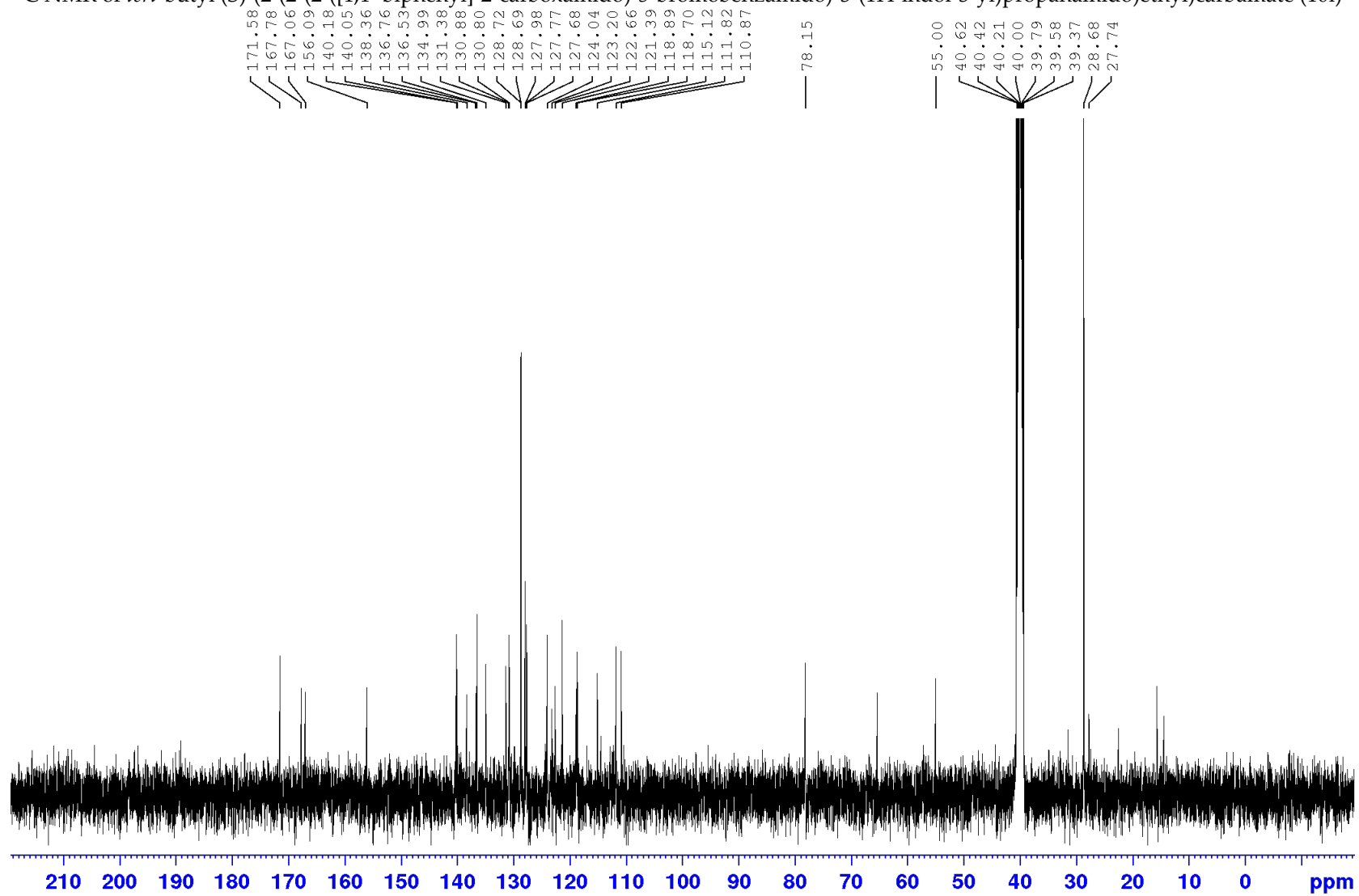
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(5-bromo-2-(thiophene-3-carboxamido)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10h)



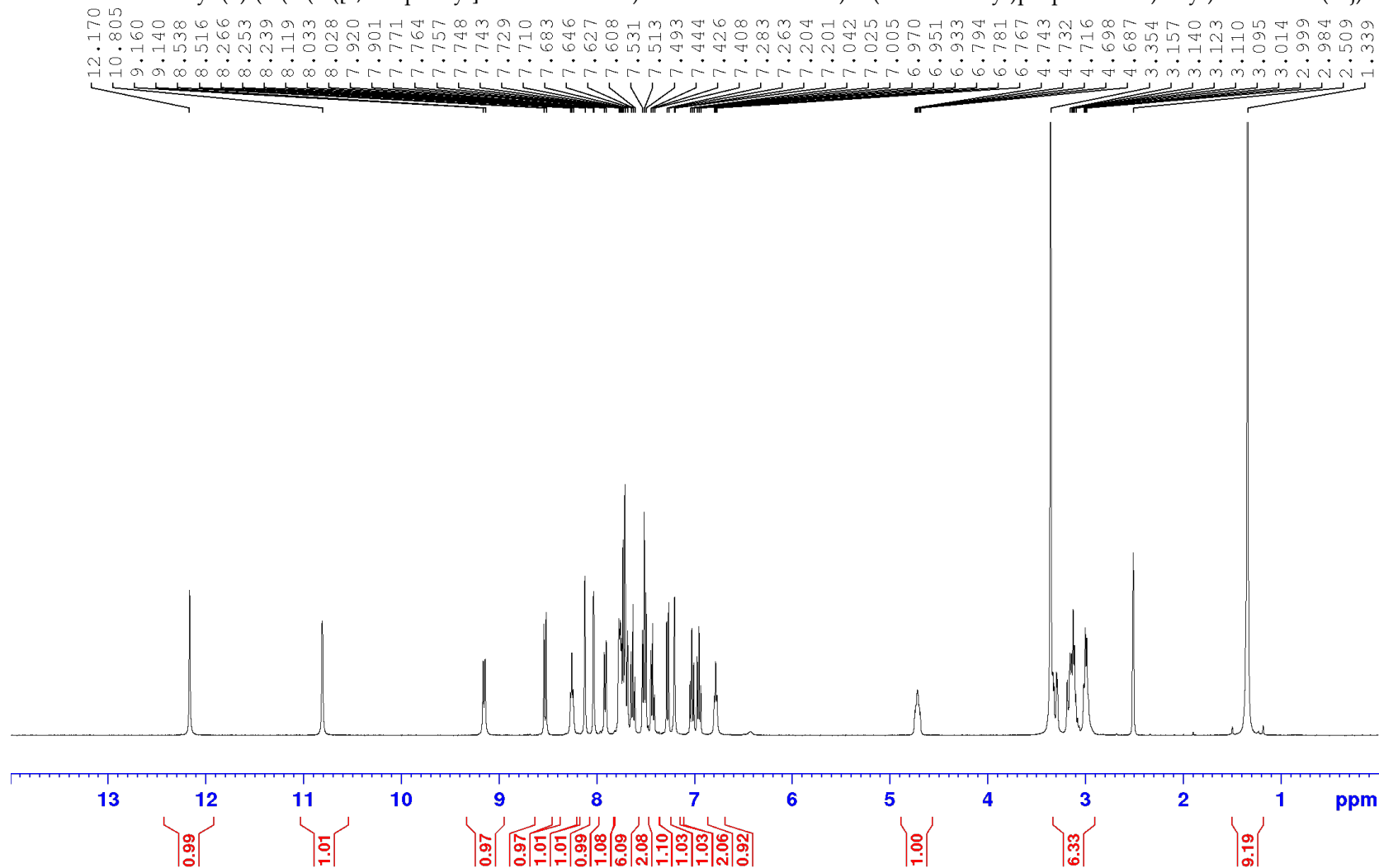
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(2-([1,1'-biphenyl]-2-carboxamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10i)



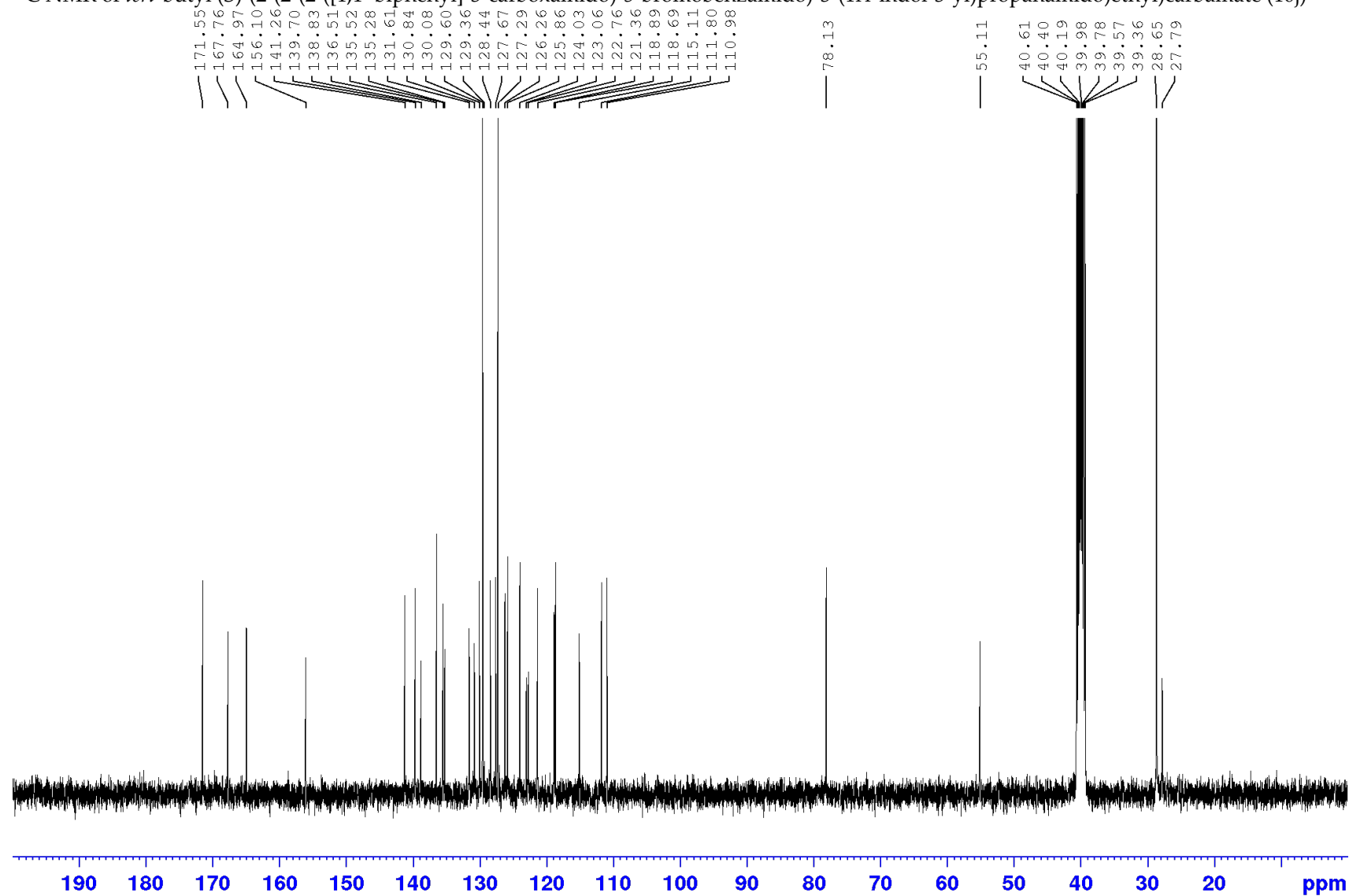
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(2-([1,1'-biphenyl]-2-carboxamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (10i)



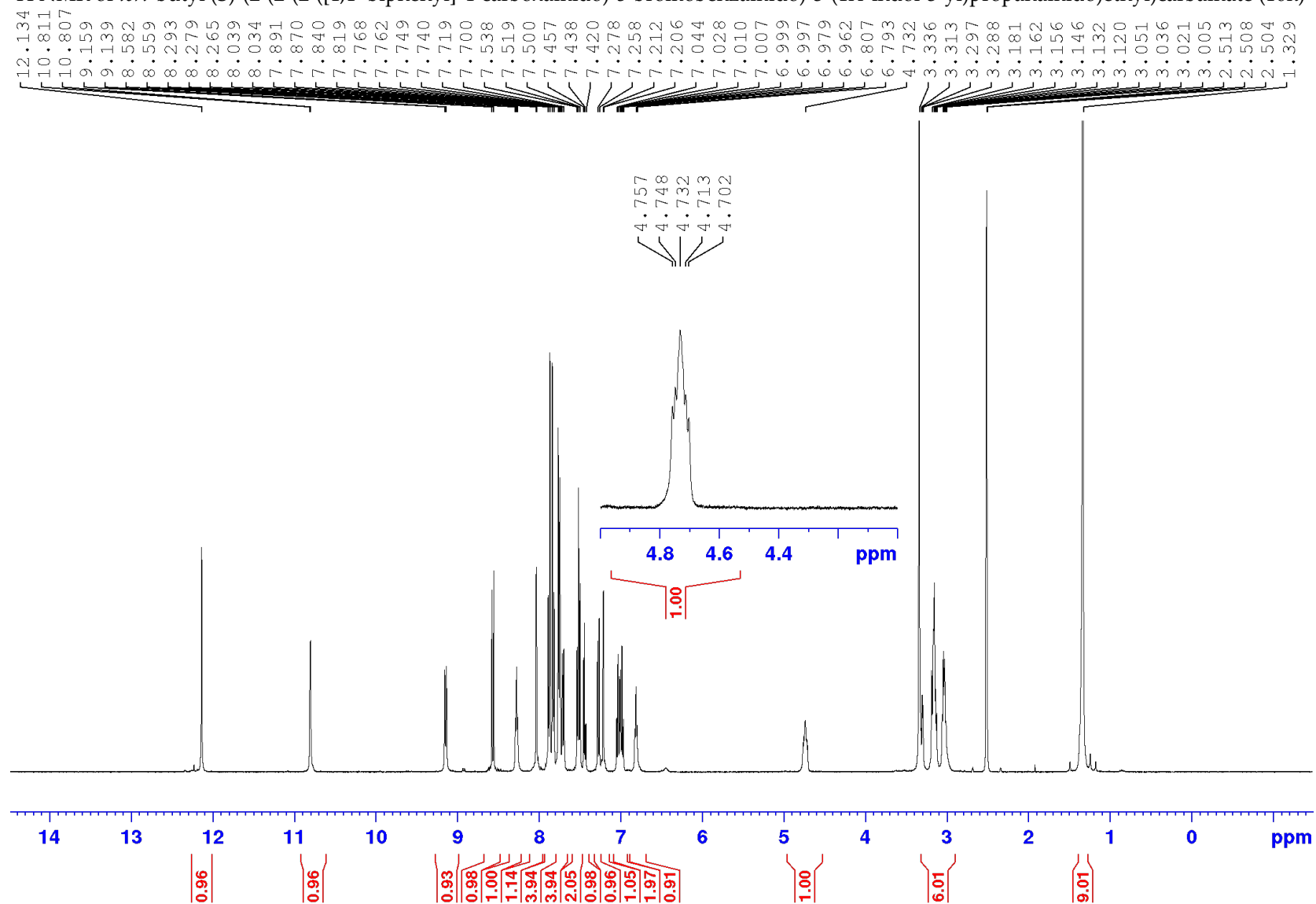
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(2-([1,1'-biphenyl]-3-carboxamido)-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (10j)



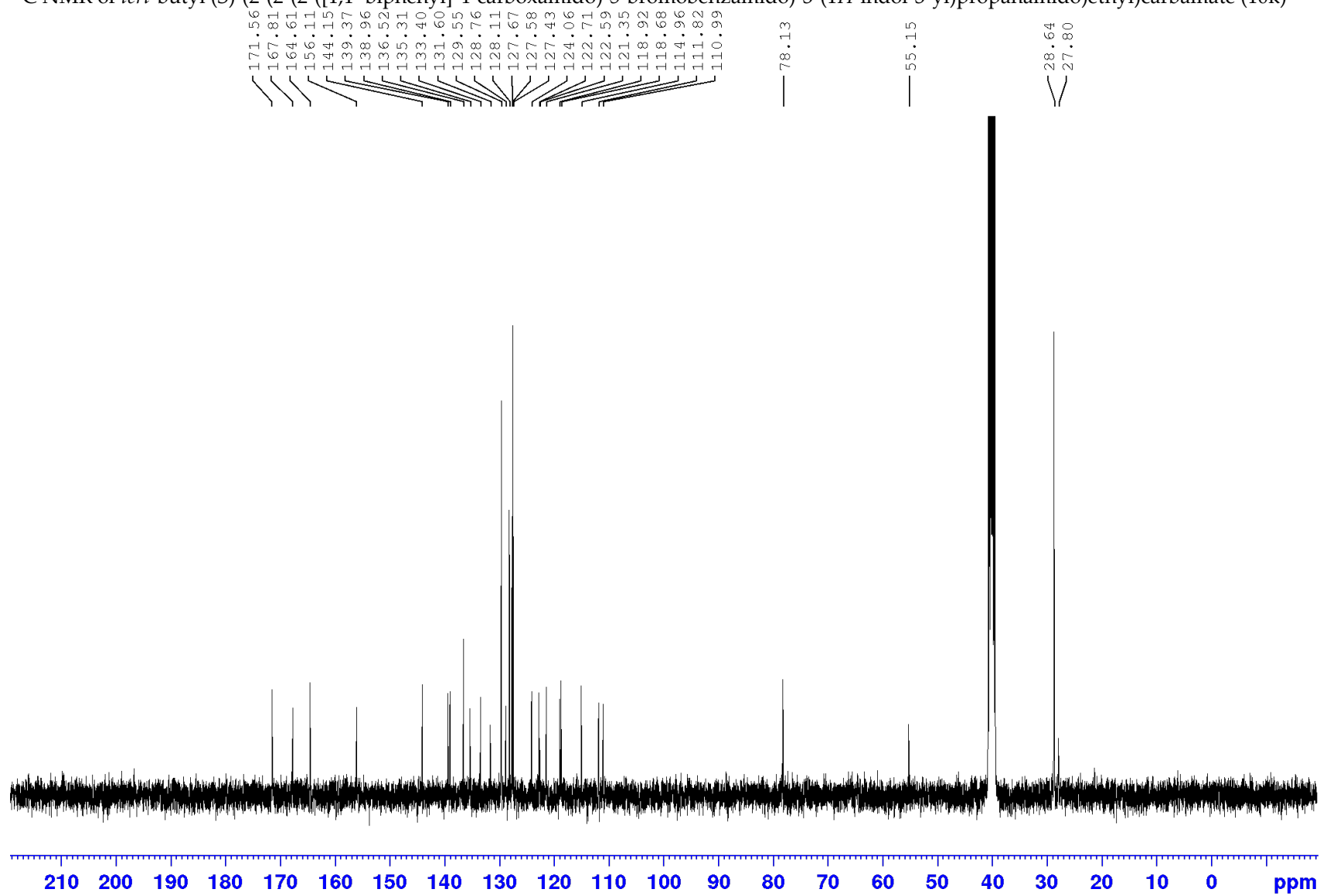
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(2-([1,1'-biphenyl]-3-carboxamido)-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (10j)



$^1\text{H}$  NMR of *tert*-butyl (S)-(2-(2-(2-([1,1'-biphenyl]-4-carboxamido)-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (10k)



$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(2-([1,1'-biphenyl]-4-carboxamido)-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (10k)



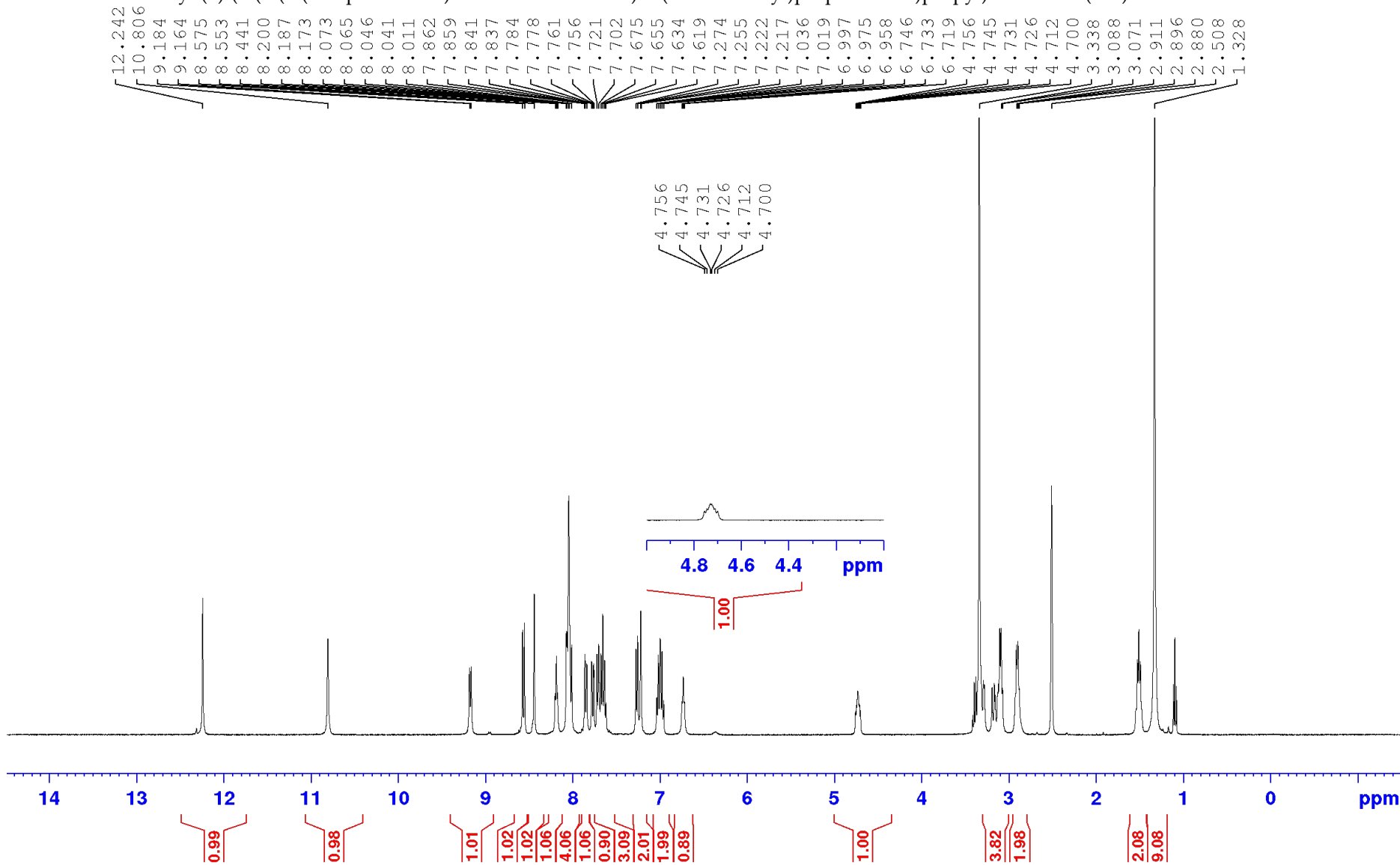


<sup>1</sup>H NMR spectrum (CDCl<sub>3</sub>) of compound 10. The x-axis represents the chemical shift in ppm, ranging from 0 to 14. The spectrum shows several peaks, with integration values provided below the baseline. A list of peak chemical shifts is provided at the top of the spectrum.

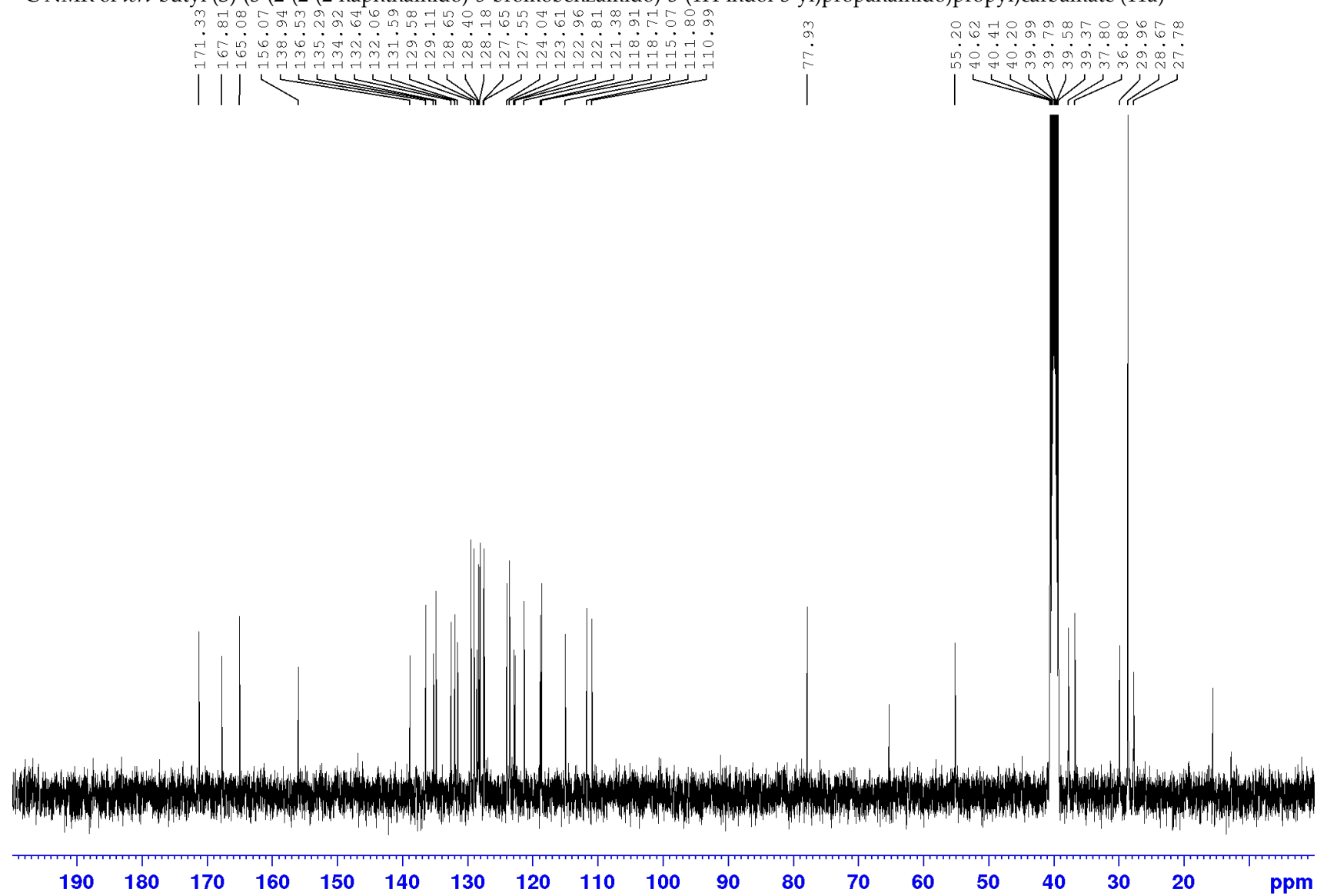
Chemical shifts (ppm): 12.242, 10.806, 9.184, 9.164, 8.575, 8.553, 8.441, 8.200, 8.187, 8.173, 8.073, 8.065, 8.046, 8.041, 8.011, 7.862, 7.859, 7.841, 7.837, 7.784, 7.778, 7.761, 7.756, 7.721, 7.702, 7.675, 7.655, 7.634, 7.619, 7.274, 7.255, 7.222, 7.217, 7.036, 7.019, 6.997, 6.975, 6.958, 6.746, 6.733, 6.719, 4.756, 4.745, 4.731, 4.726, 4.712, 4.700, 4.745, 4.731, 4.726, 4.712, 4.700, 3.338, 3.088, 3.071, 2.911, 2.896, 2.880, 2.508, 1.328.

Integration values (from left to right): 0.99, 0.98, 1.01, 1.02, 1.02, 1.06, 4.06, 1.06, 0.90, 3.09, 2.01, 1.99, 0.89, 1.00, 3.82, 1.98, 2.08, 9.08.

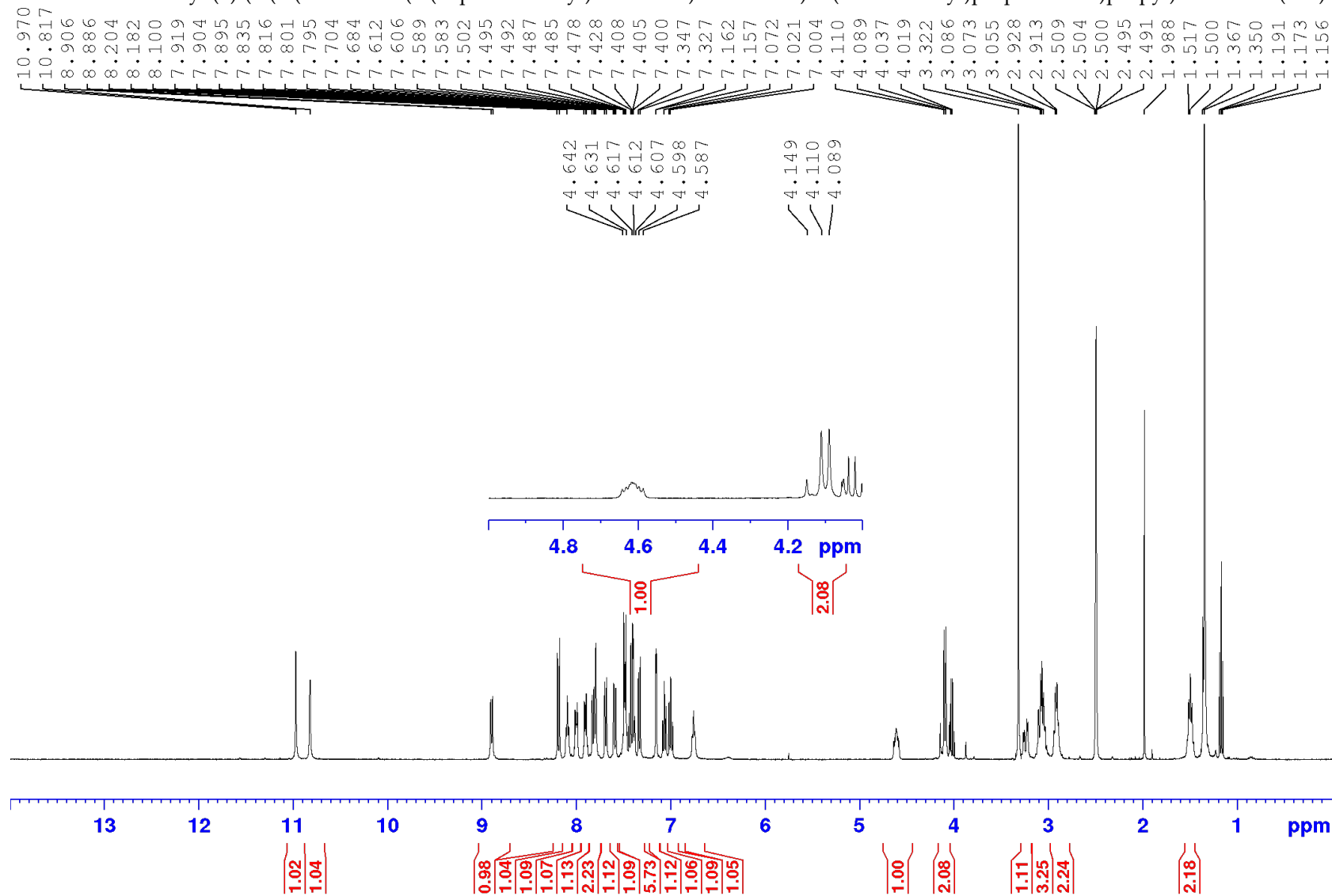
Inset: A zoomed-in view of the aromatic region (4.4 to 4.8 ppm) showing a peak with an integration of 1.00.



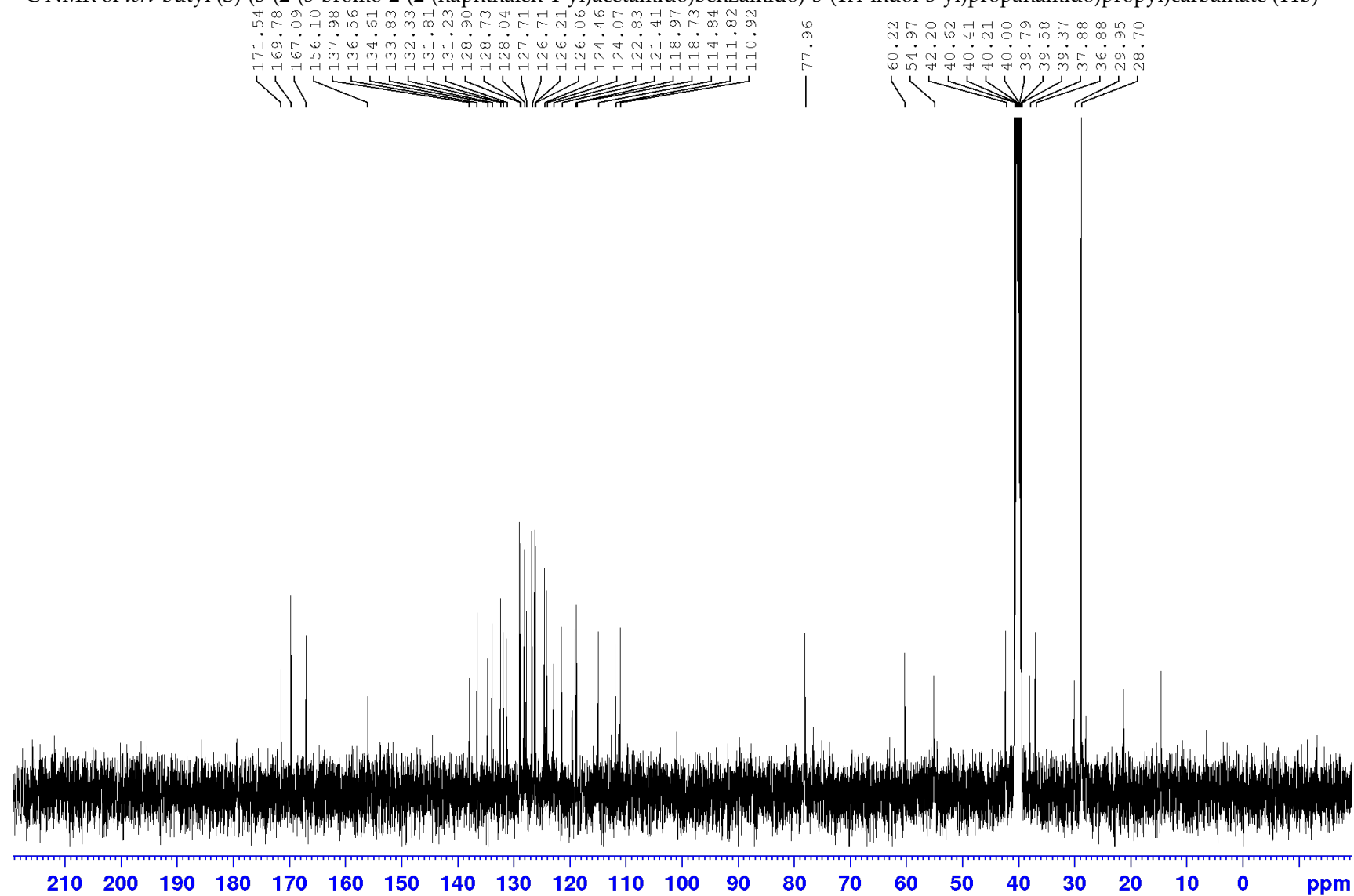
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(3-(2-(2-(2-naphthamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)propyl)carbamate (11a)



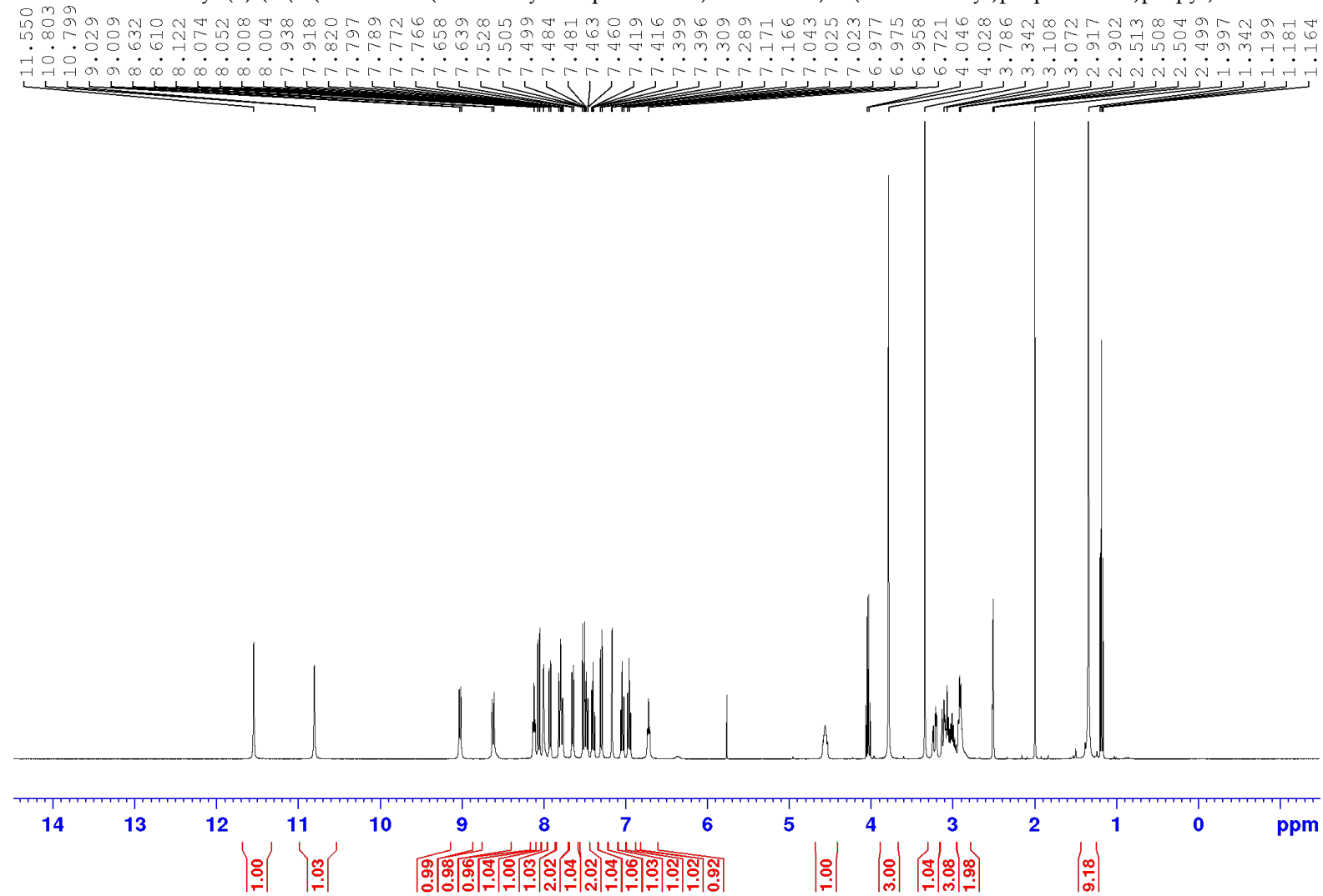
$^1\text{H}$  NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (11b)



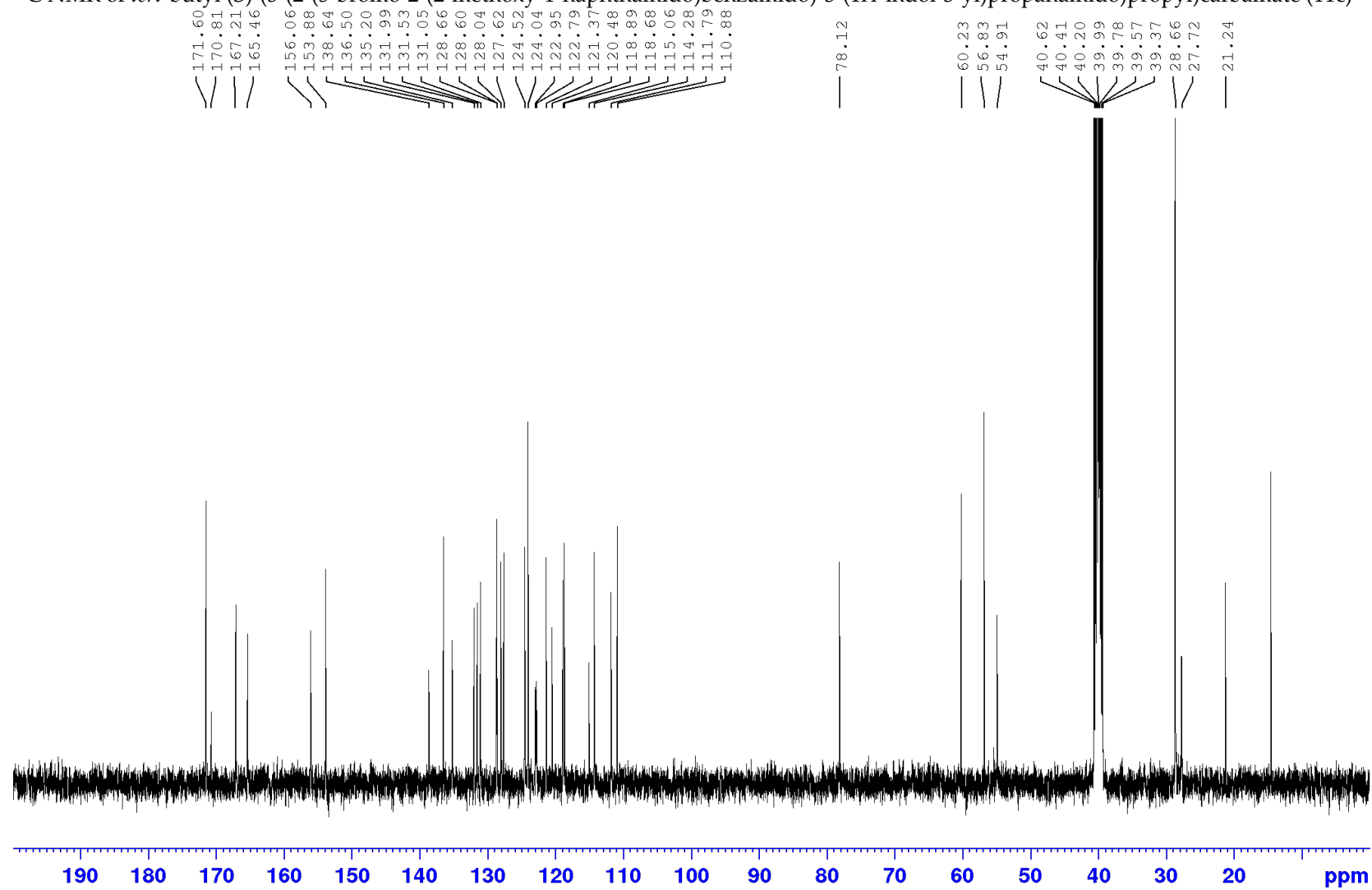
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (11b)



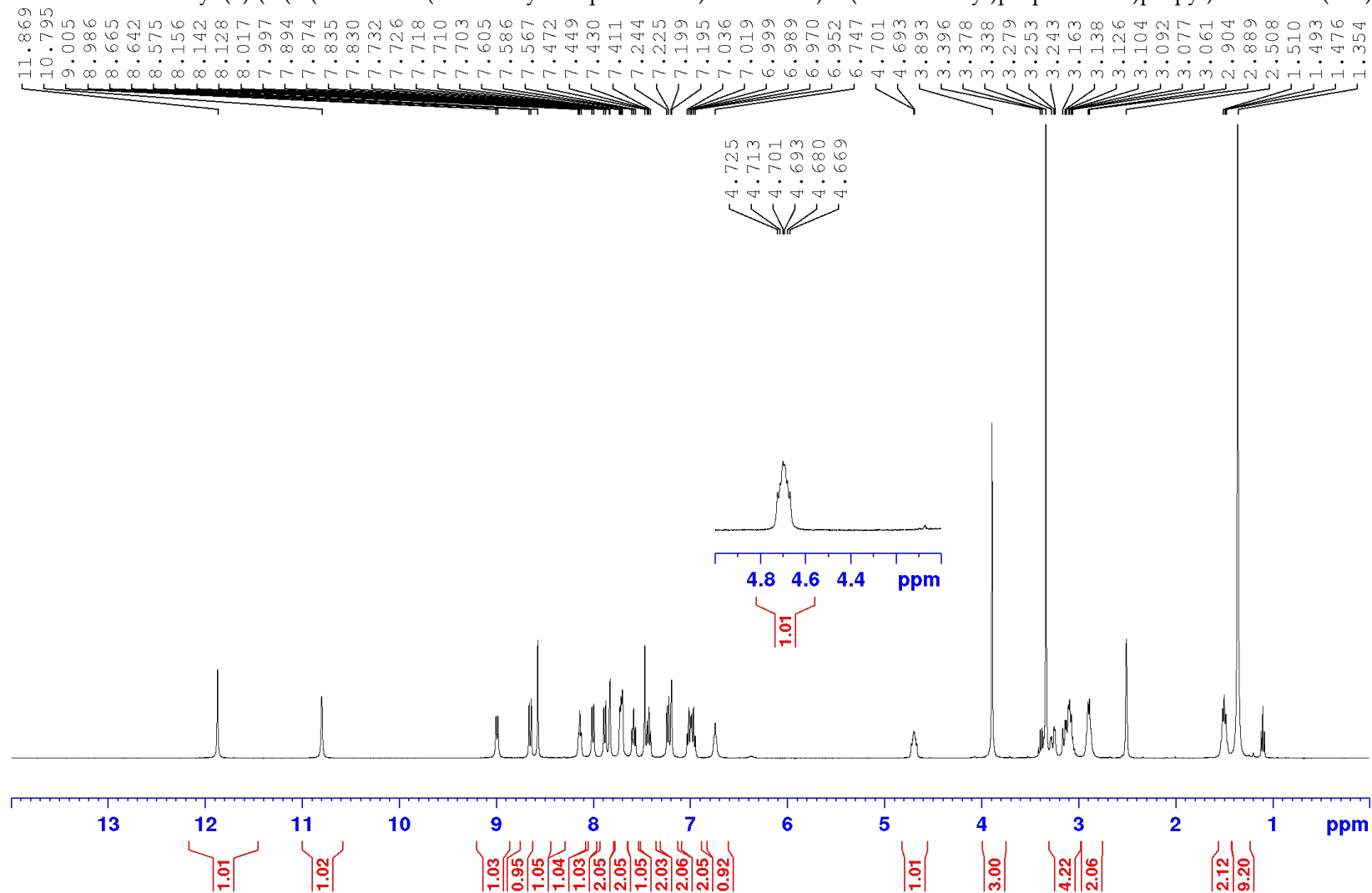
<sup>1</sup>H NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(2-methoxy-1-naphthamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (11c)



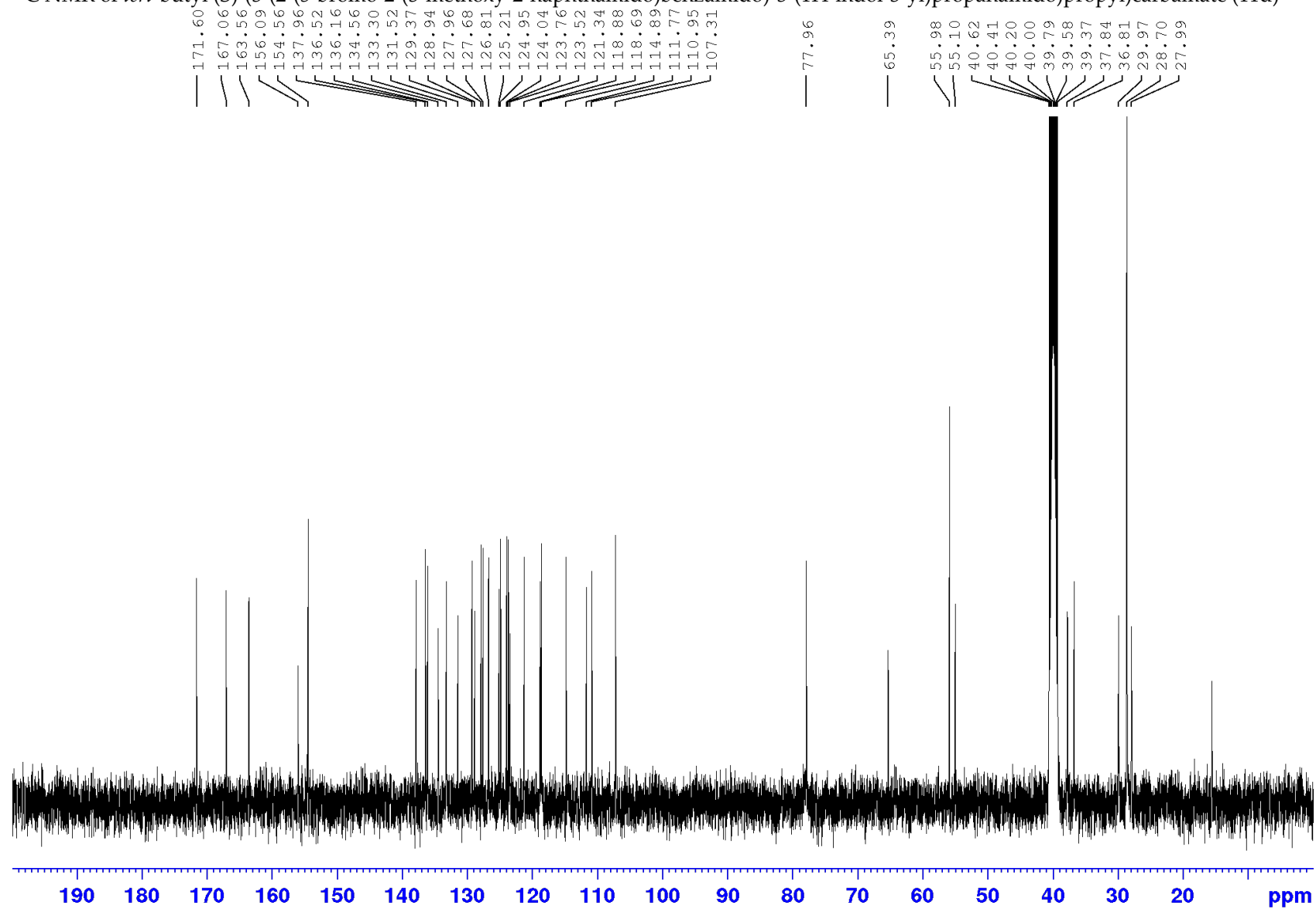
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(2-methoxy-1-naphthamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (11c)



<sup>1</sup>H NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(3-methoxy-2-naphthamido)benzamido)-3-(1H-indol-3-yl)propanamido)propyl)carbamate (11d)

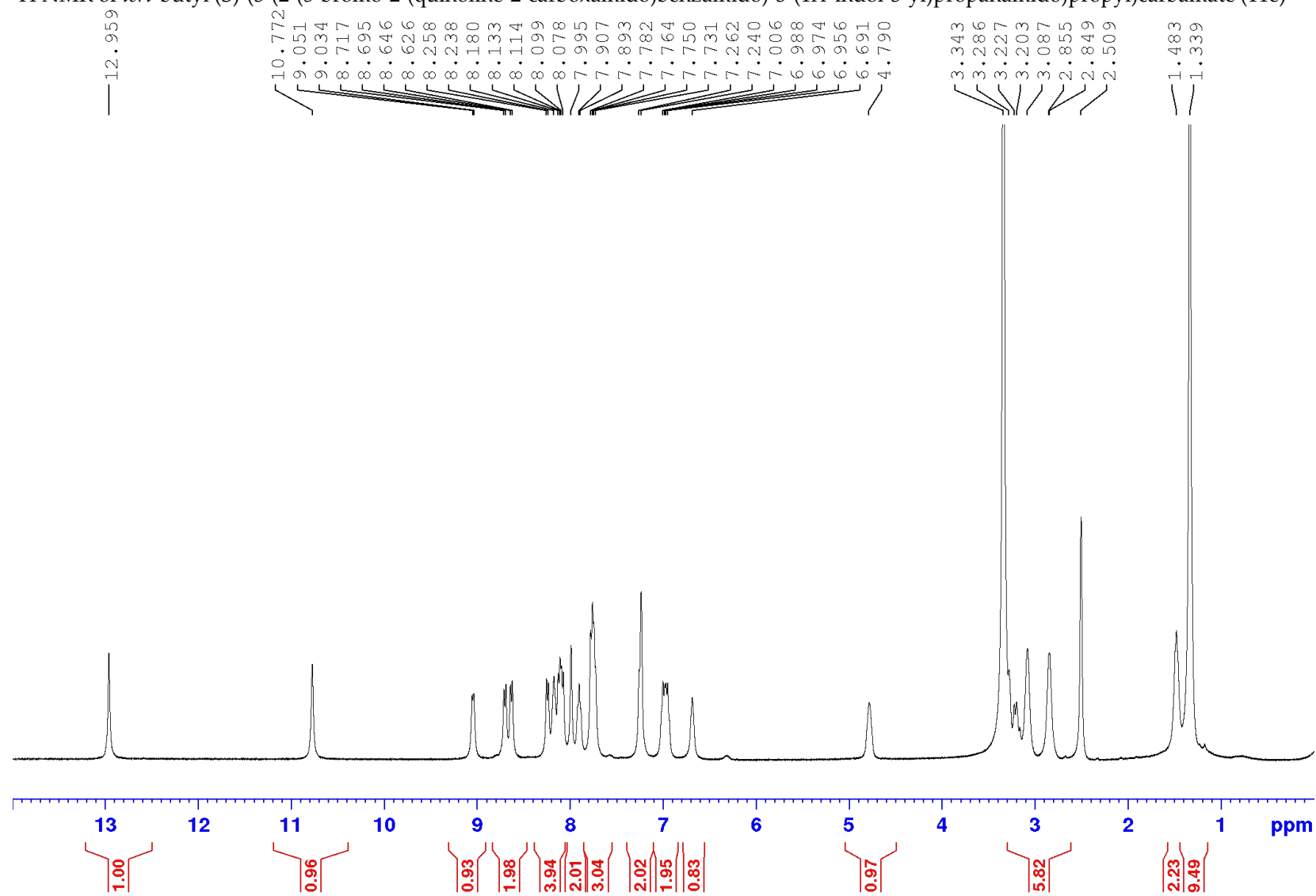


$^{13}\text{C}$  NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(3-methoxy-2-naphthamido)benzamido)-3-(1H-indol-3-yl)propanamido)propyl)carbamate (11d)

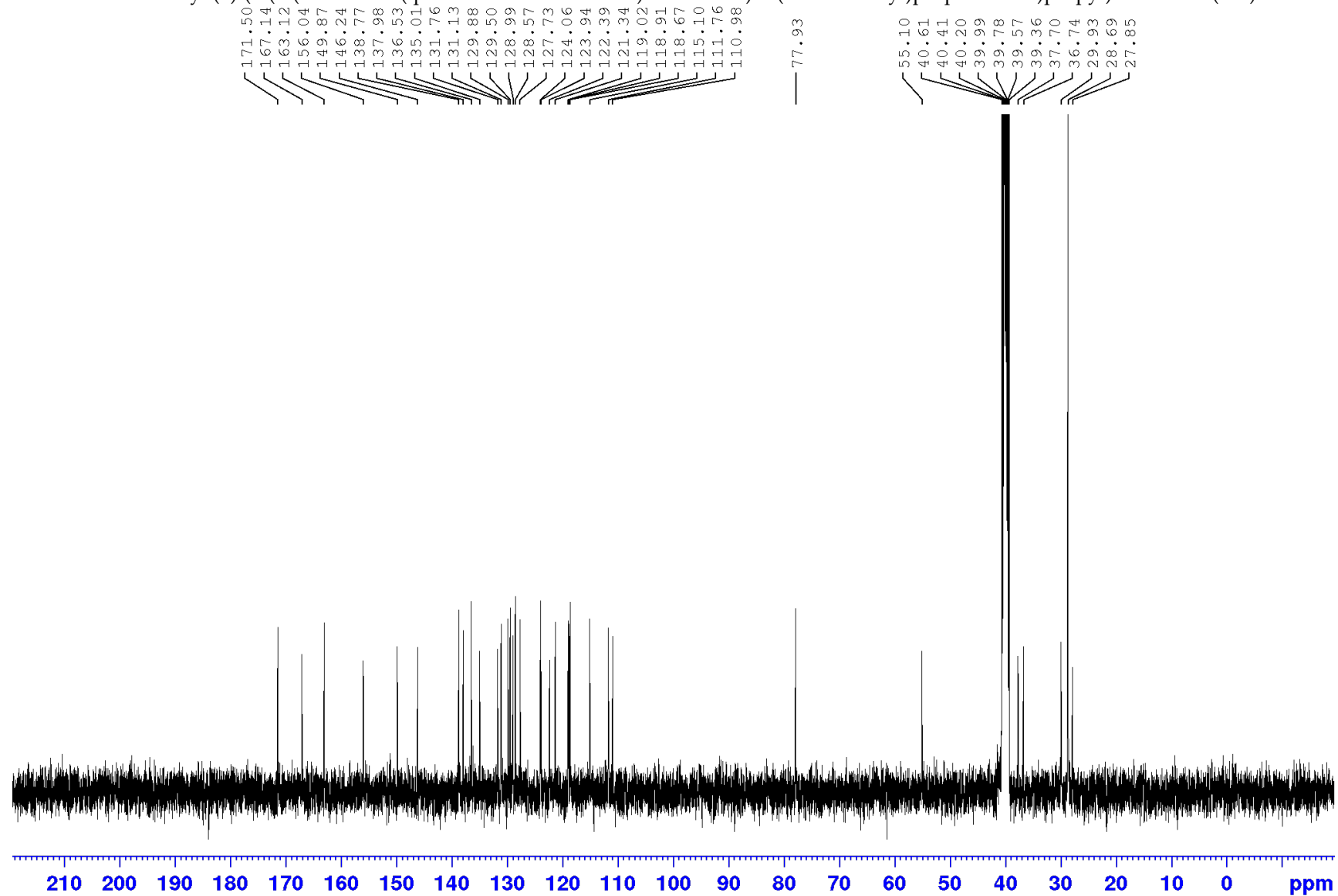




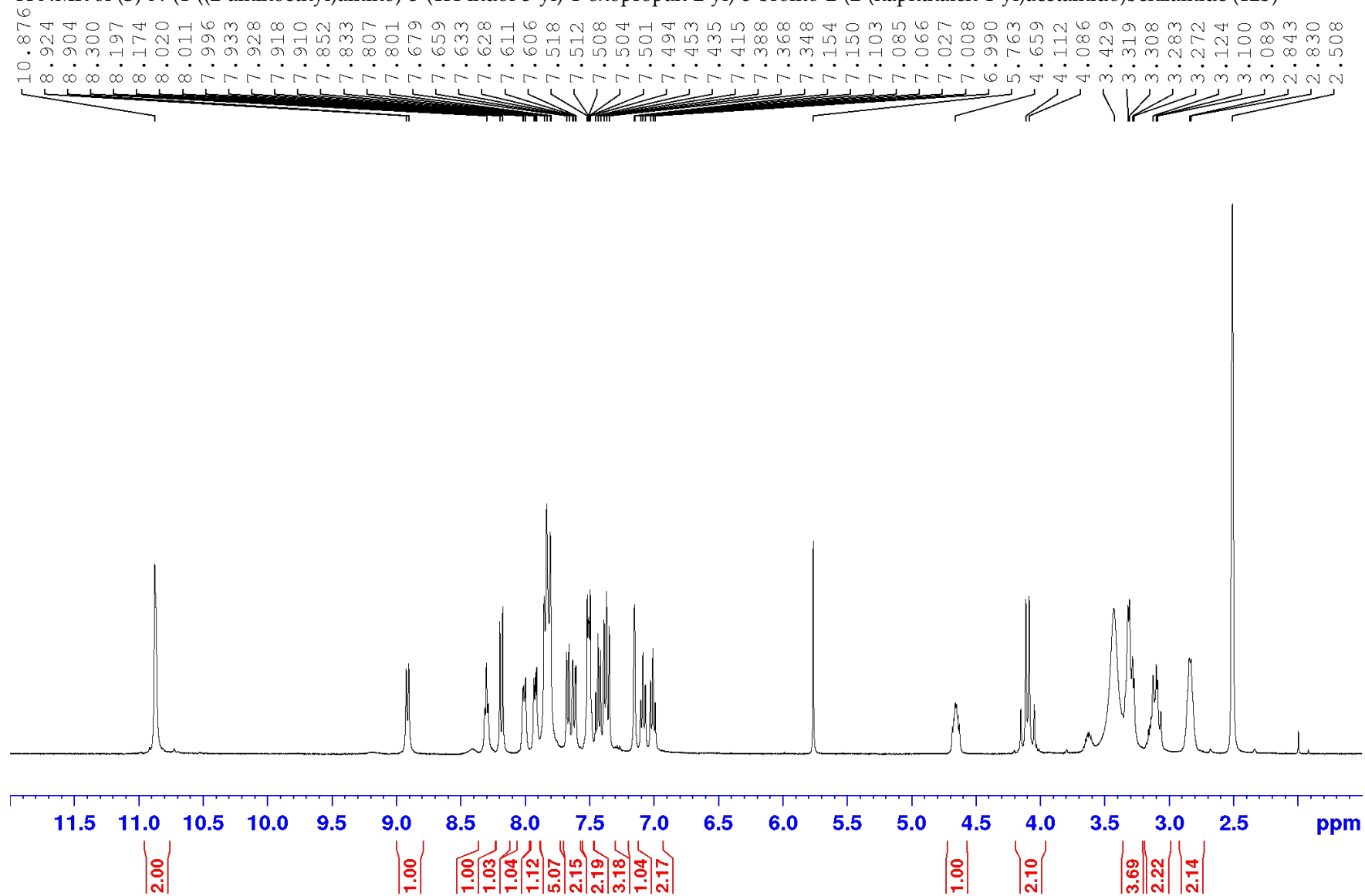
$^1\text{H}$  NMR of *tert*-butyl (S)-(3-(2-(5-bromo-2-(quinoline-2-carboxamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)propyl)carbamate (11e)



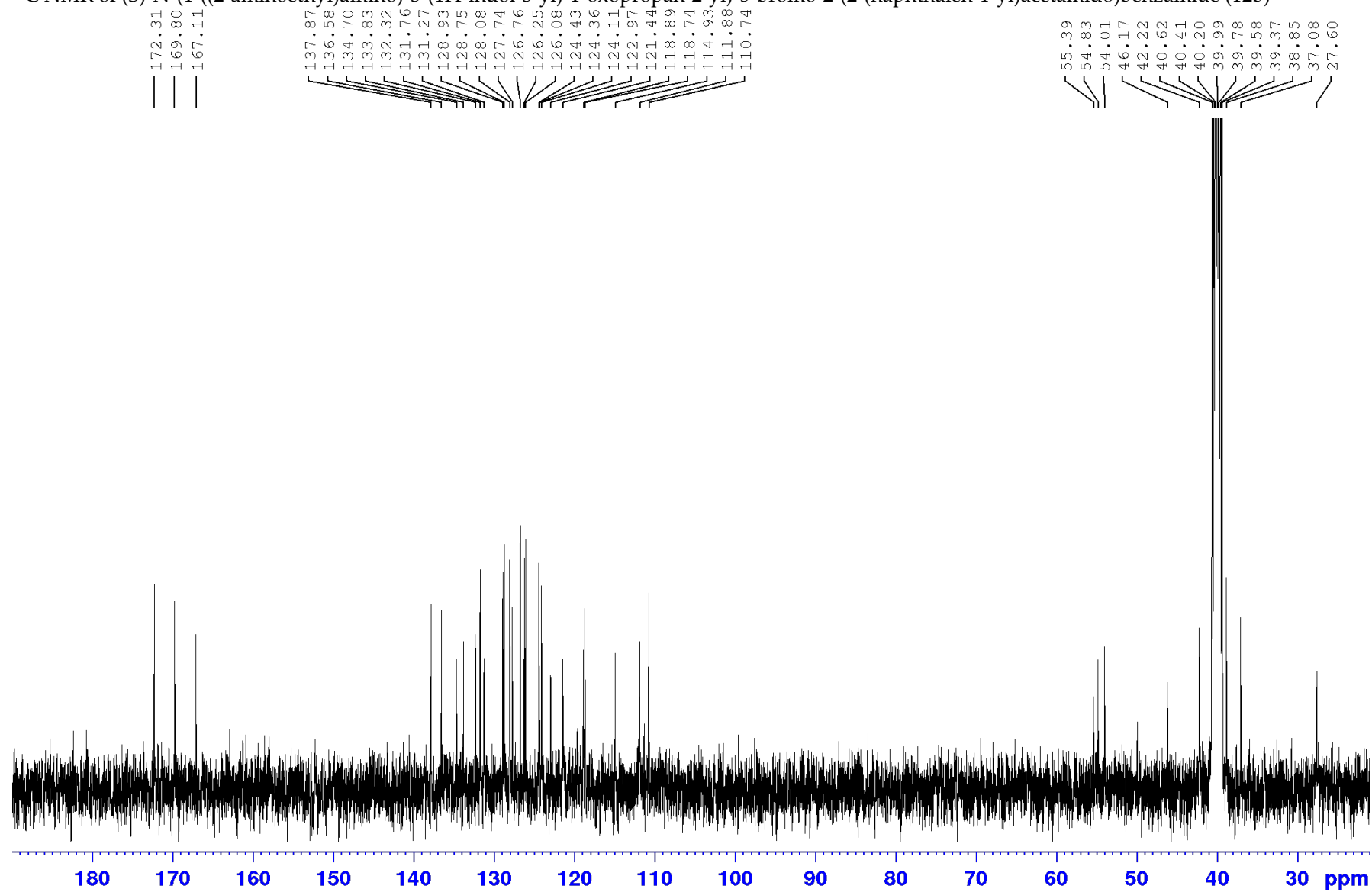
$^{13}\text{C}$  NMR of *tert*-butyl (S)-3-(2-(5-bromo-2-(quinoline-2-carboxamido)benzamido)-3-(1*H*-indol-3-yl)propanamido)propylcarbamate (11e)



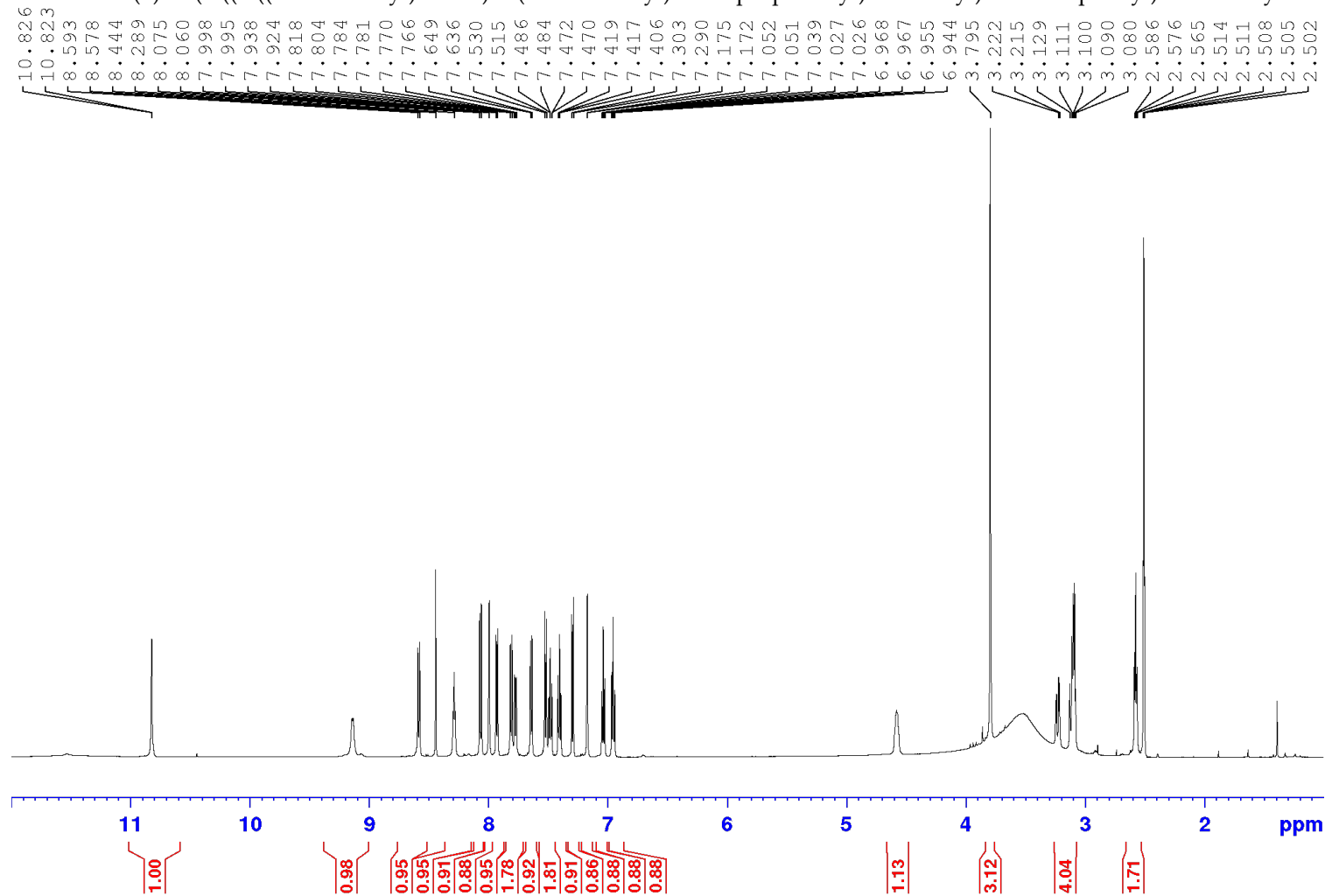
<sup>1</sup>H NMR of (S)-N-(1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamide (12b)



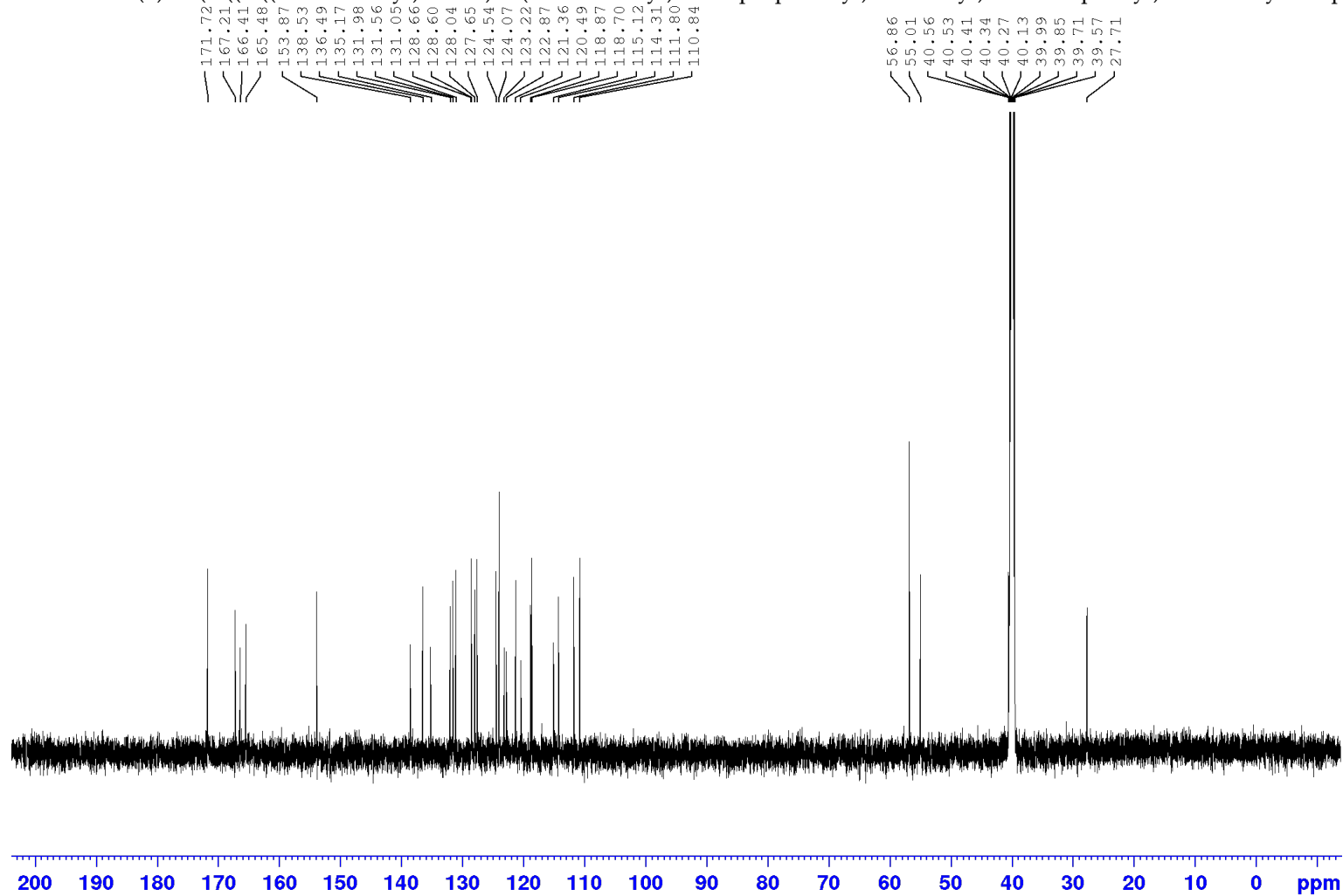
$^{13}\text{C}$  NMR of (S)-N-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamide (12b)



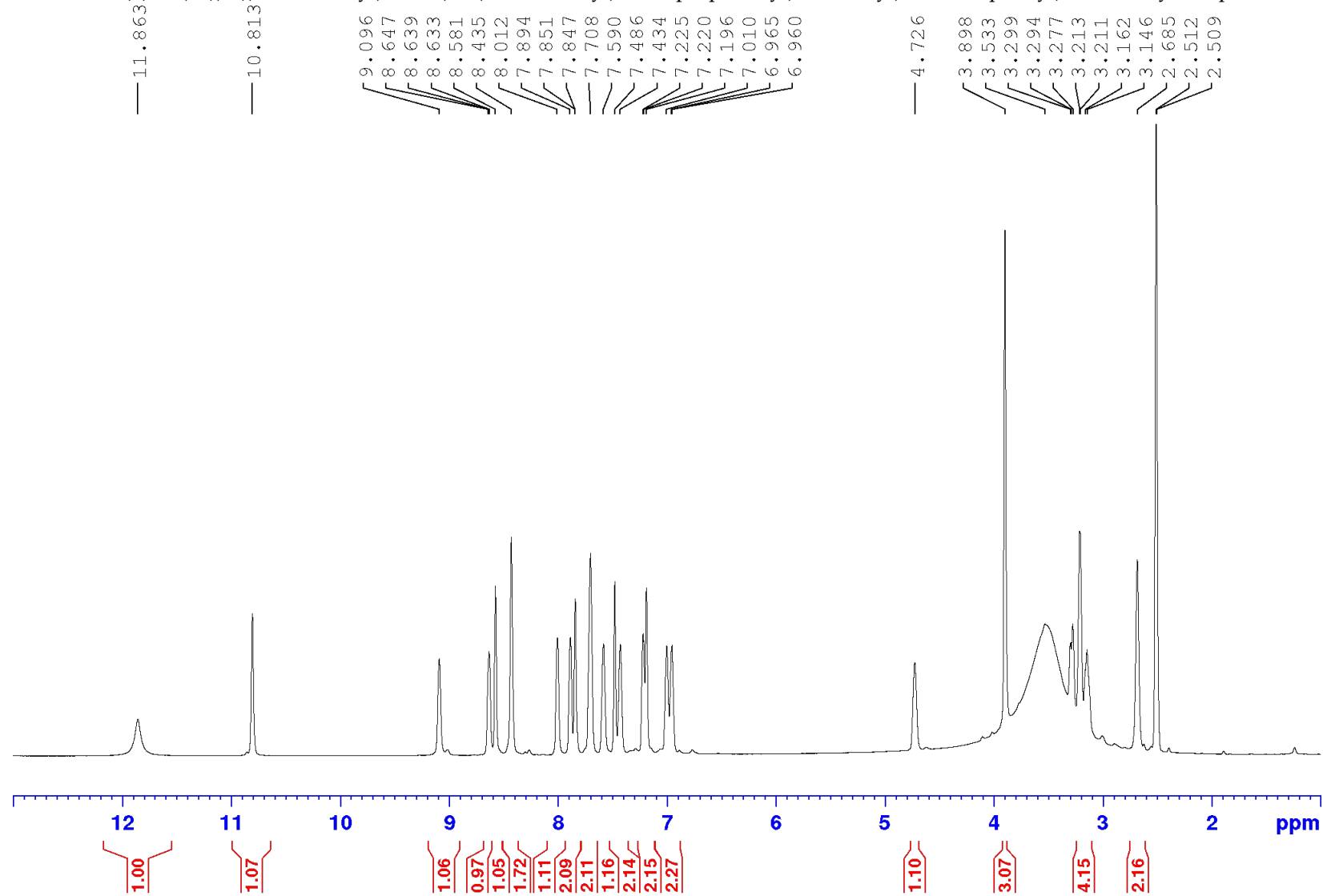
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-2-methoxy-1-naphthamide (12c)



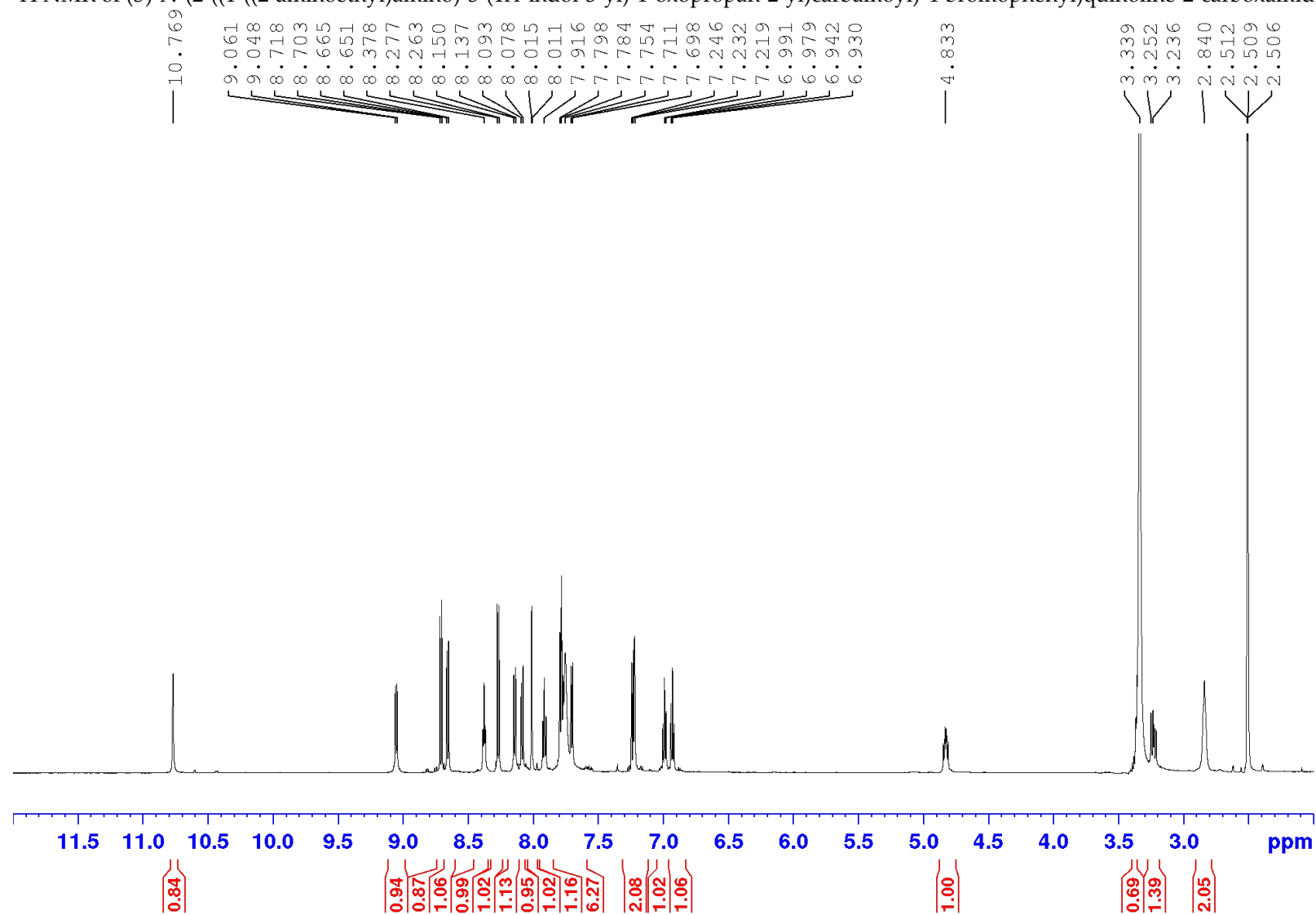
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-2-methoxy-1-naphthamide (12c)



<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-3-methoxy-2-naphthamide (12d)

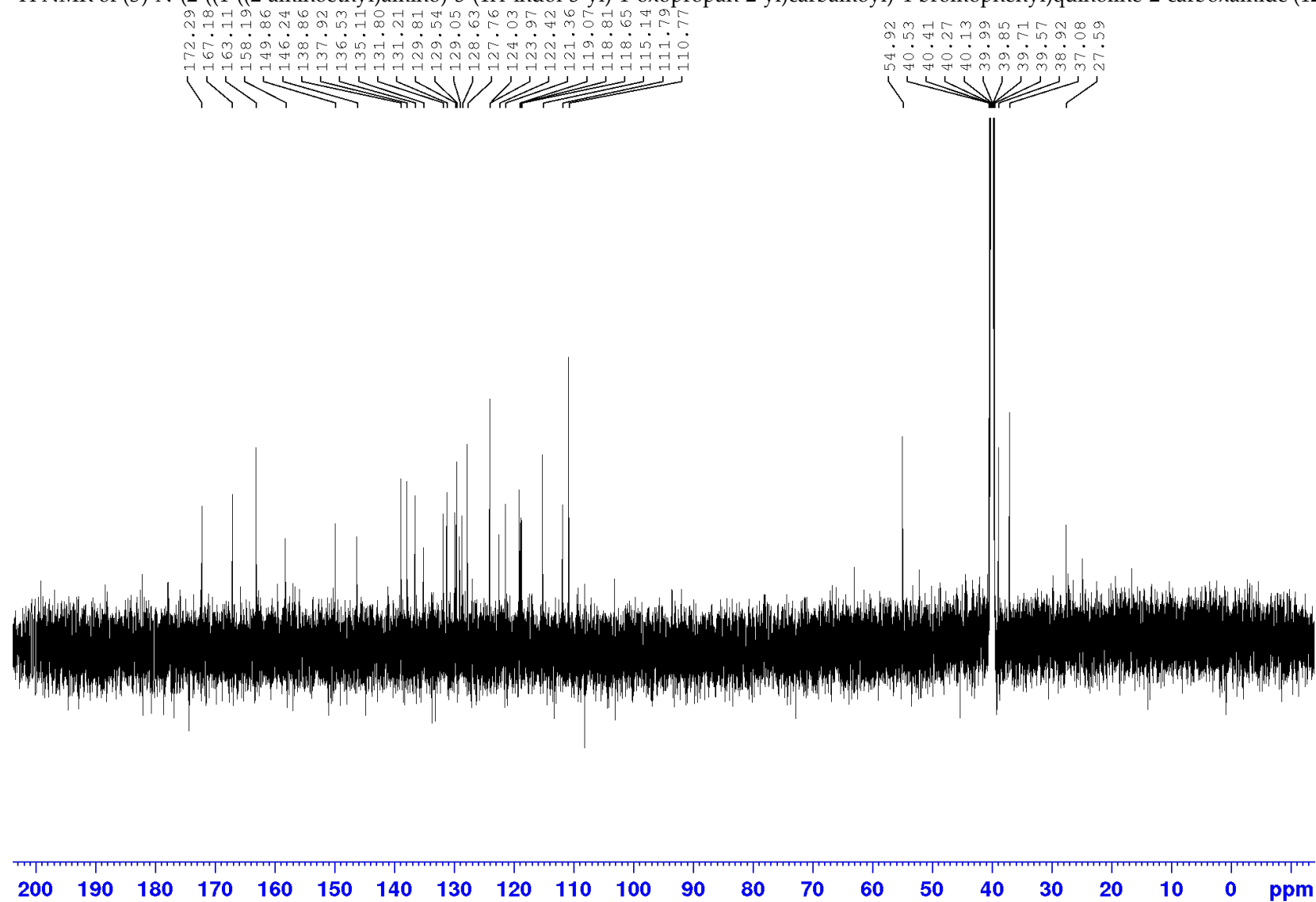


<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)quinoline-2-carboxamide (12e)

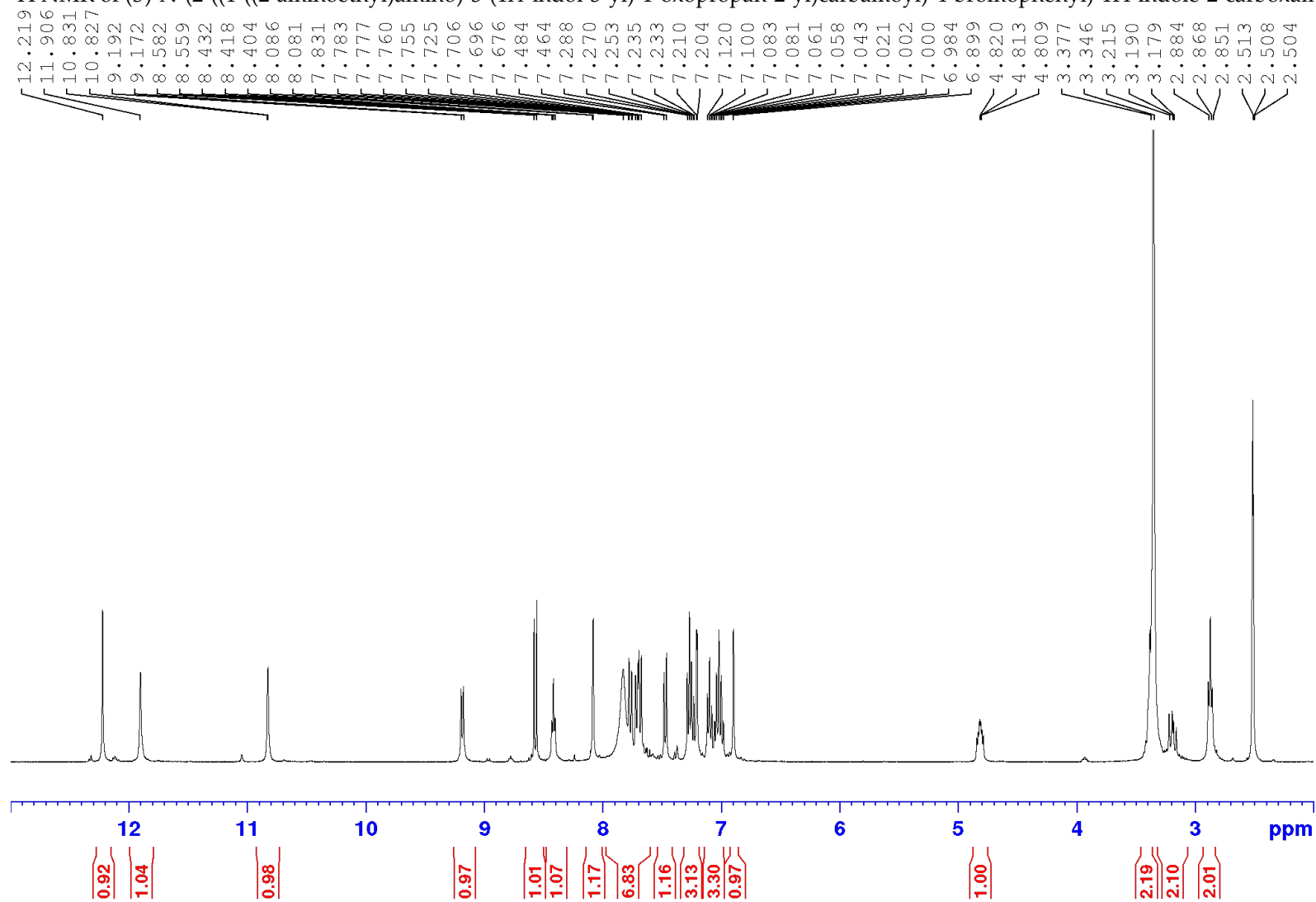




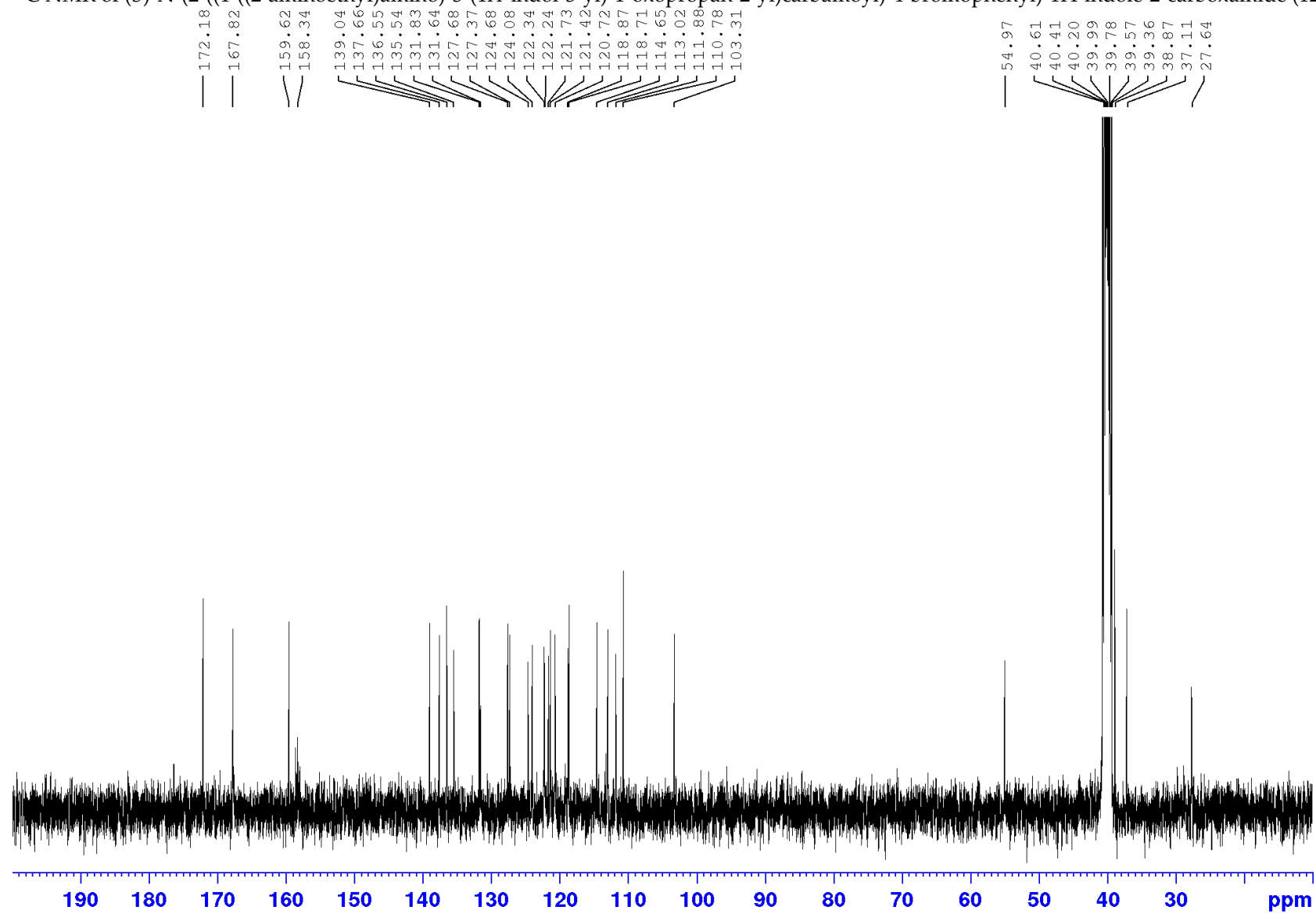
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)quinoline-2-carboxamide (12e)



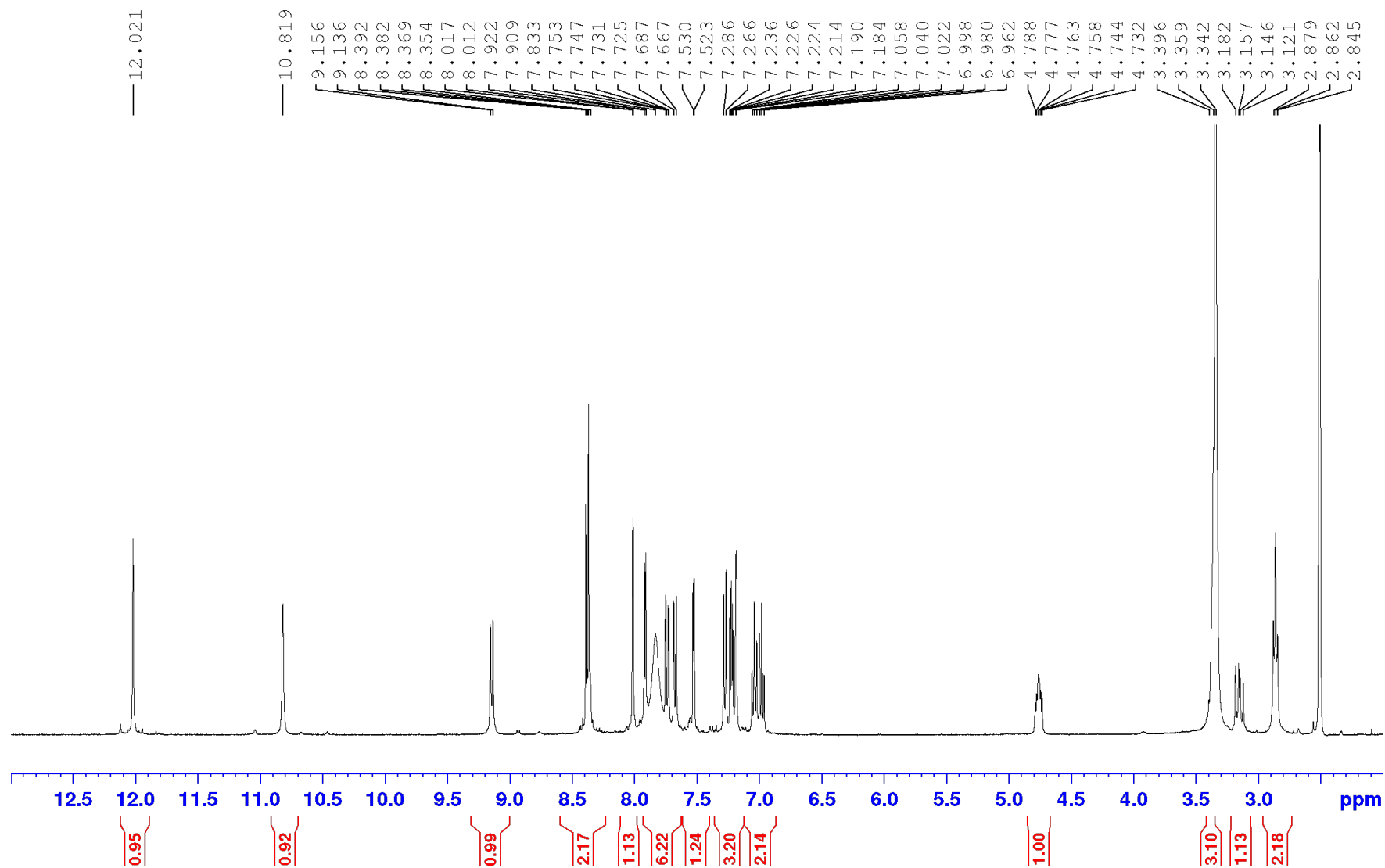
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-1H-indole-2-carboxamide (12f)



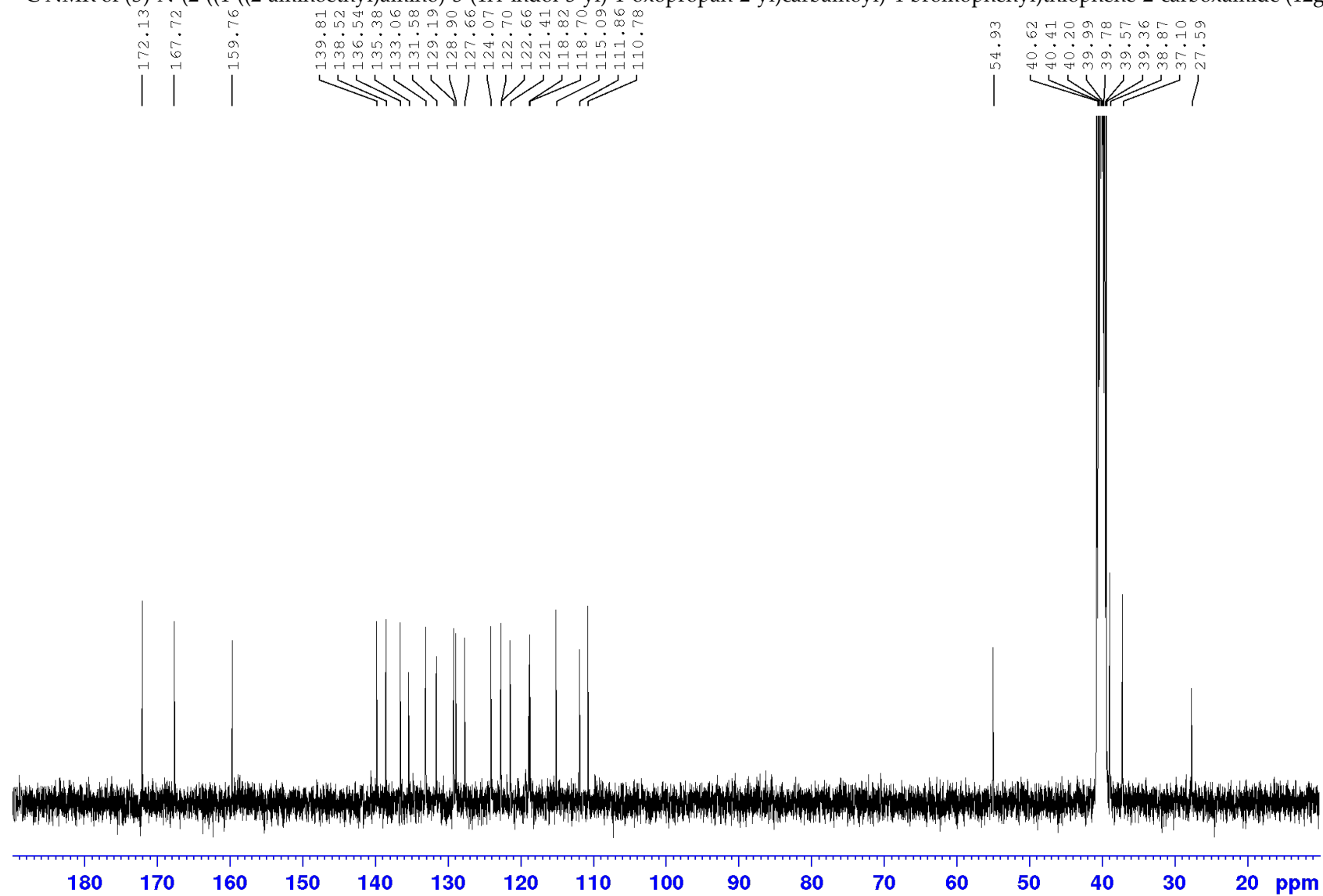
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-1*H*-indole-2-carboxamide (12f)



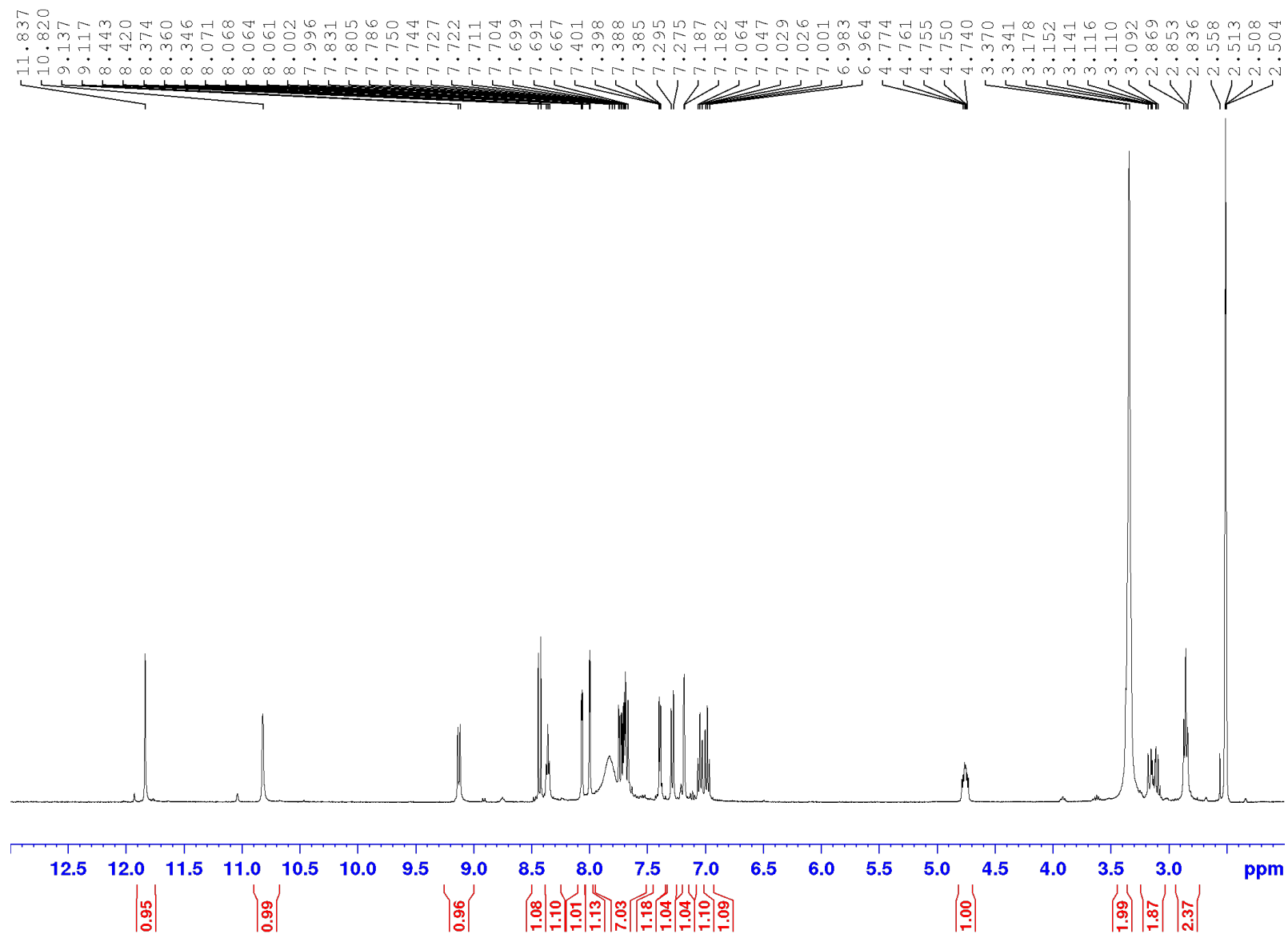
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)thiophene-2-carboxamide (12g)



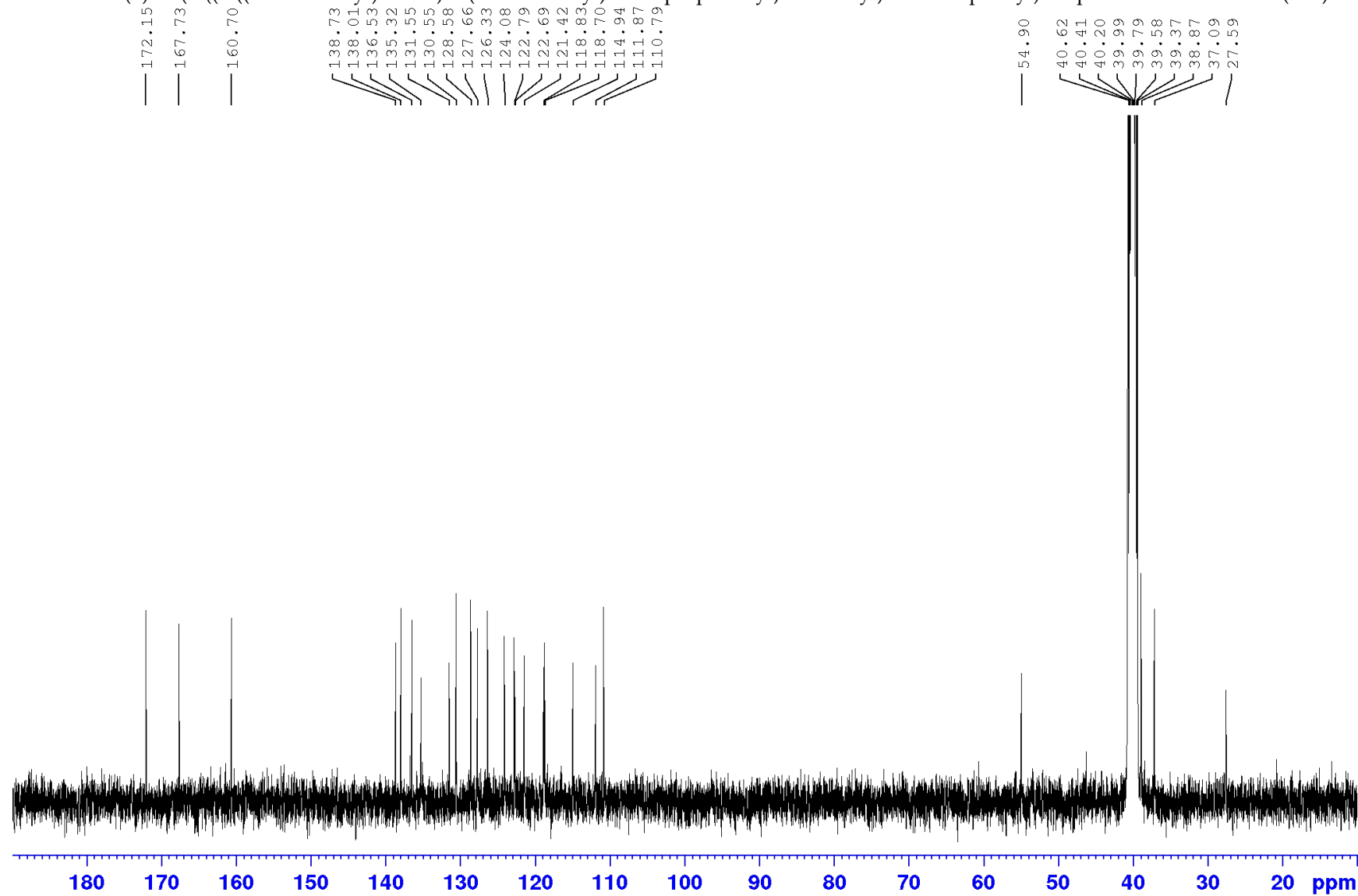
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)thiophene-2-carboxamide (12g)



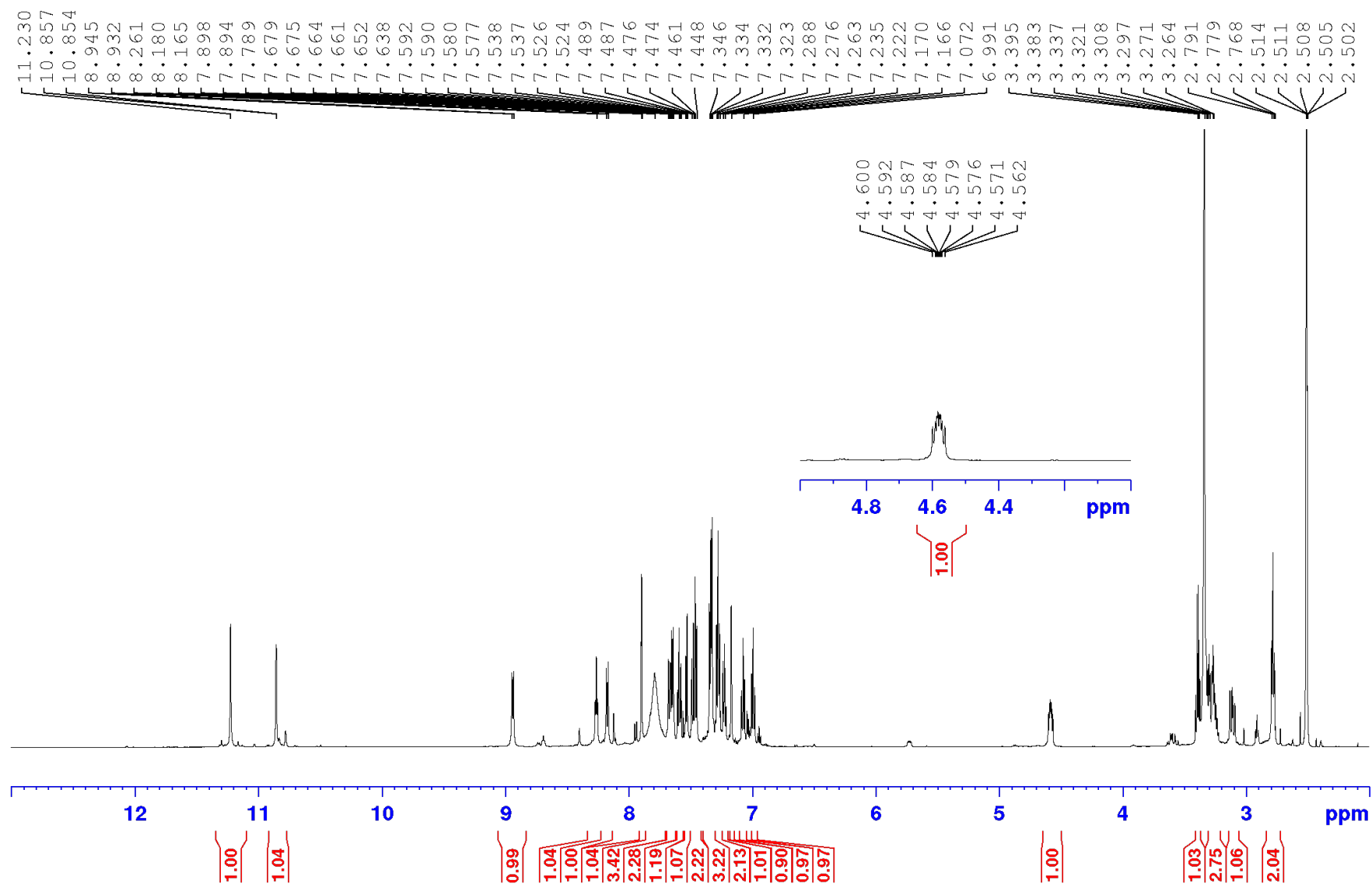
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)thiophene-3-carboxamide (12h)



$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)thiophene-3-carboxamide (12h)

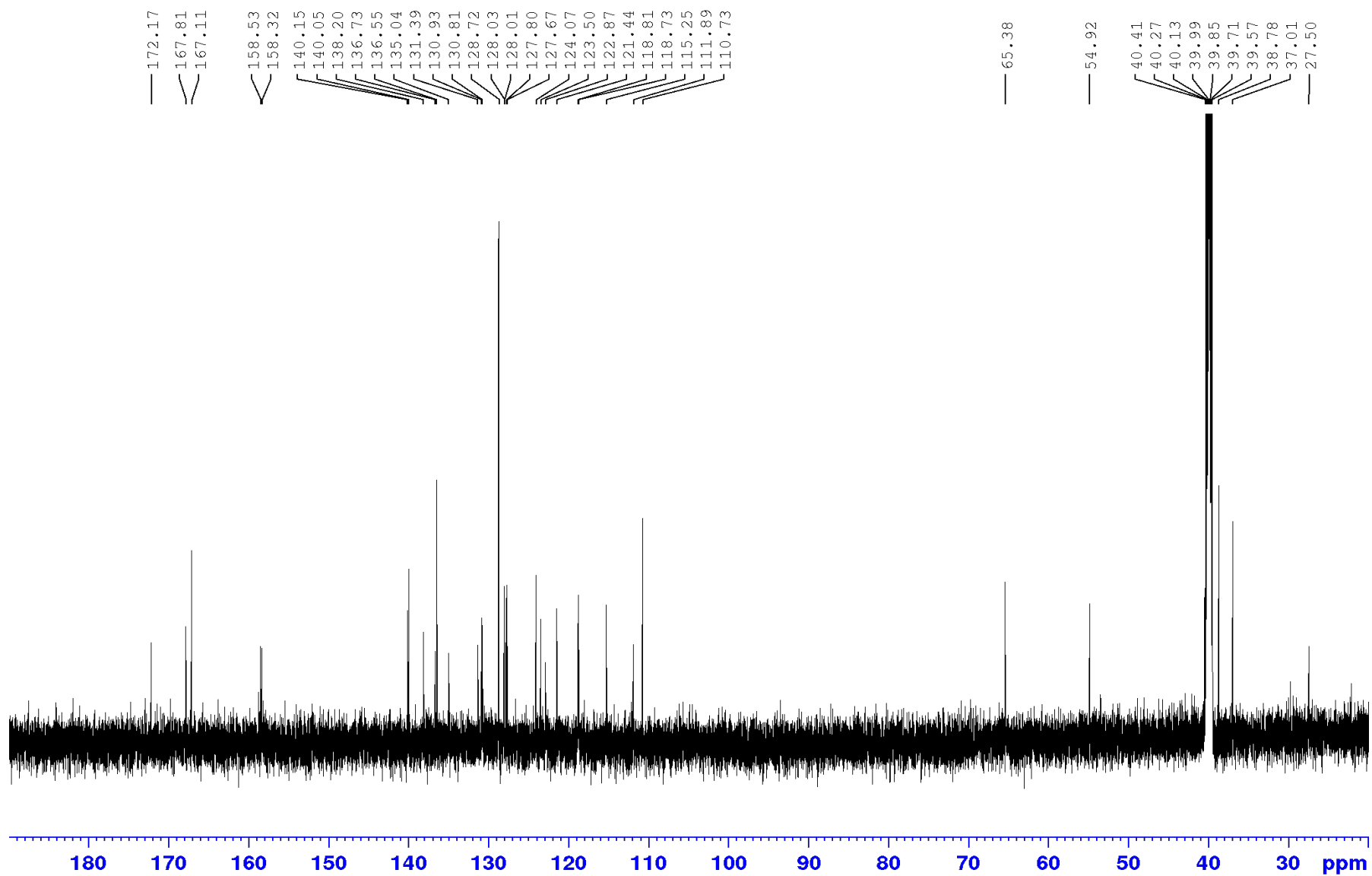


<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-[1,1'-biphenyl]-2-carboxamide (12i)

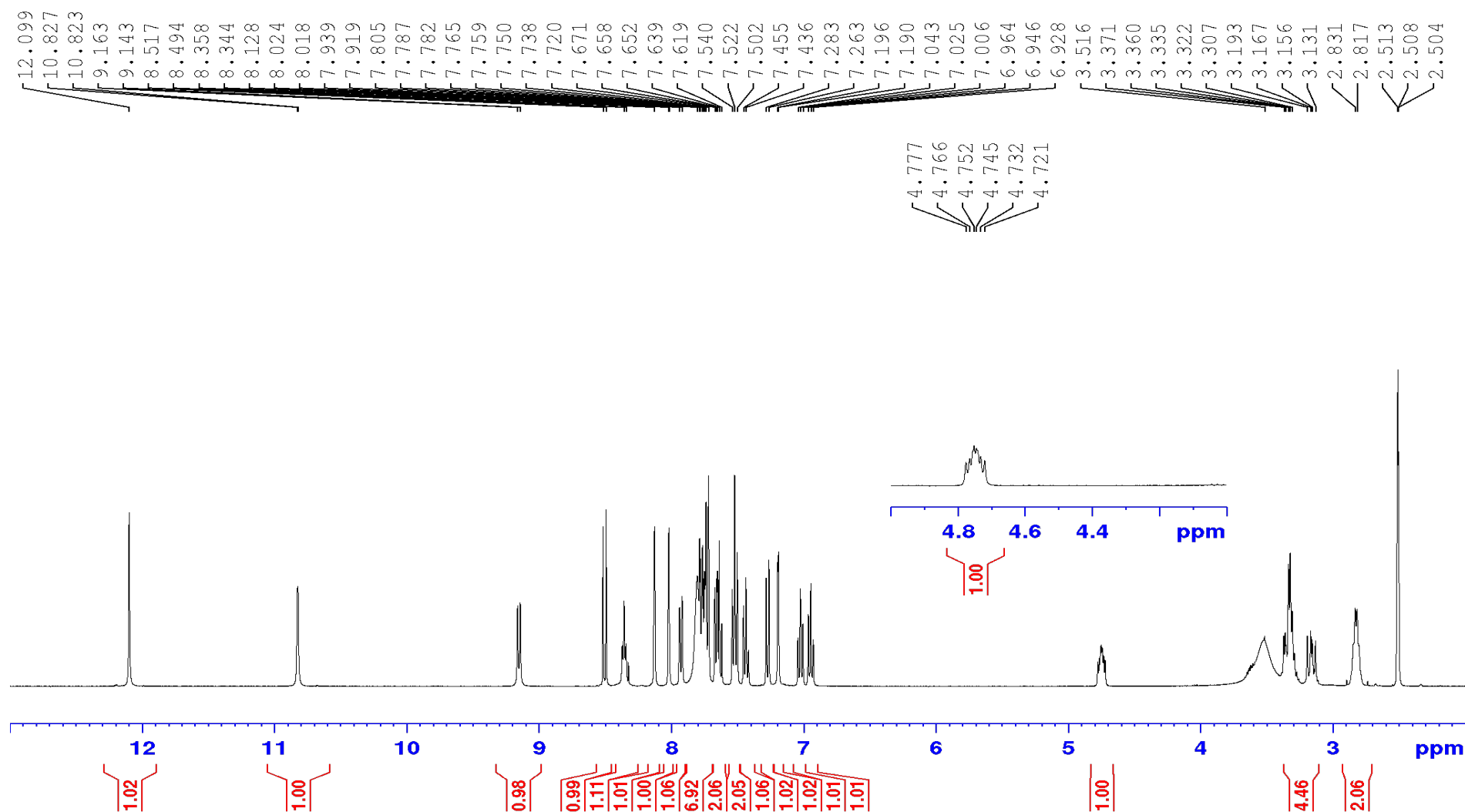




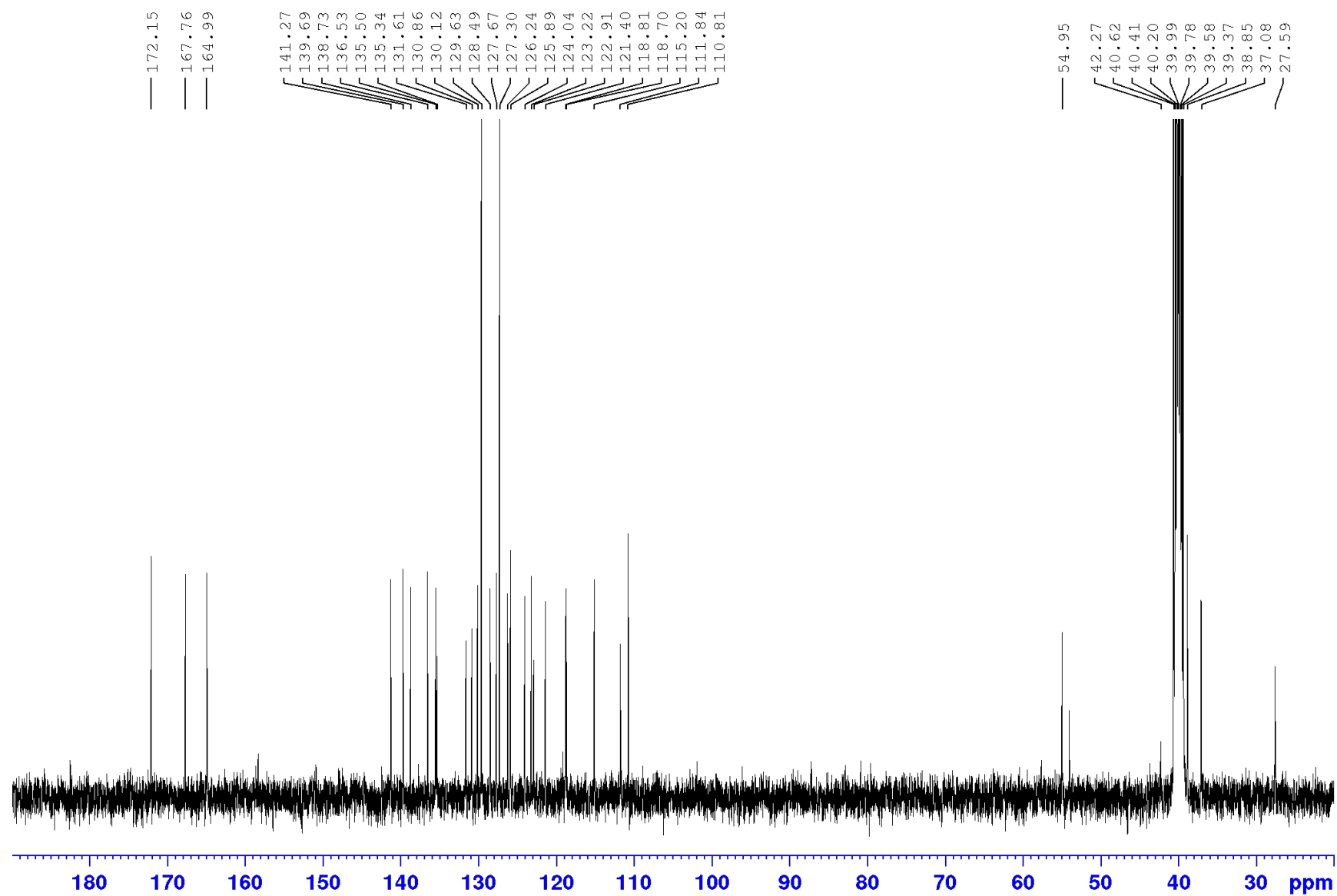
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-[1,1'-biphenyl]-2-carboxamide (12i)



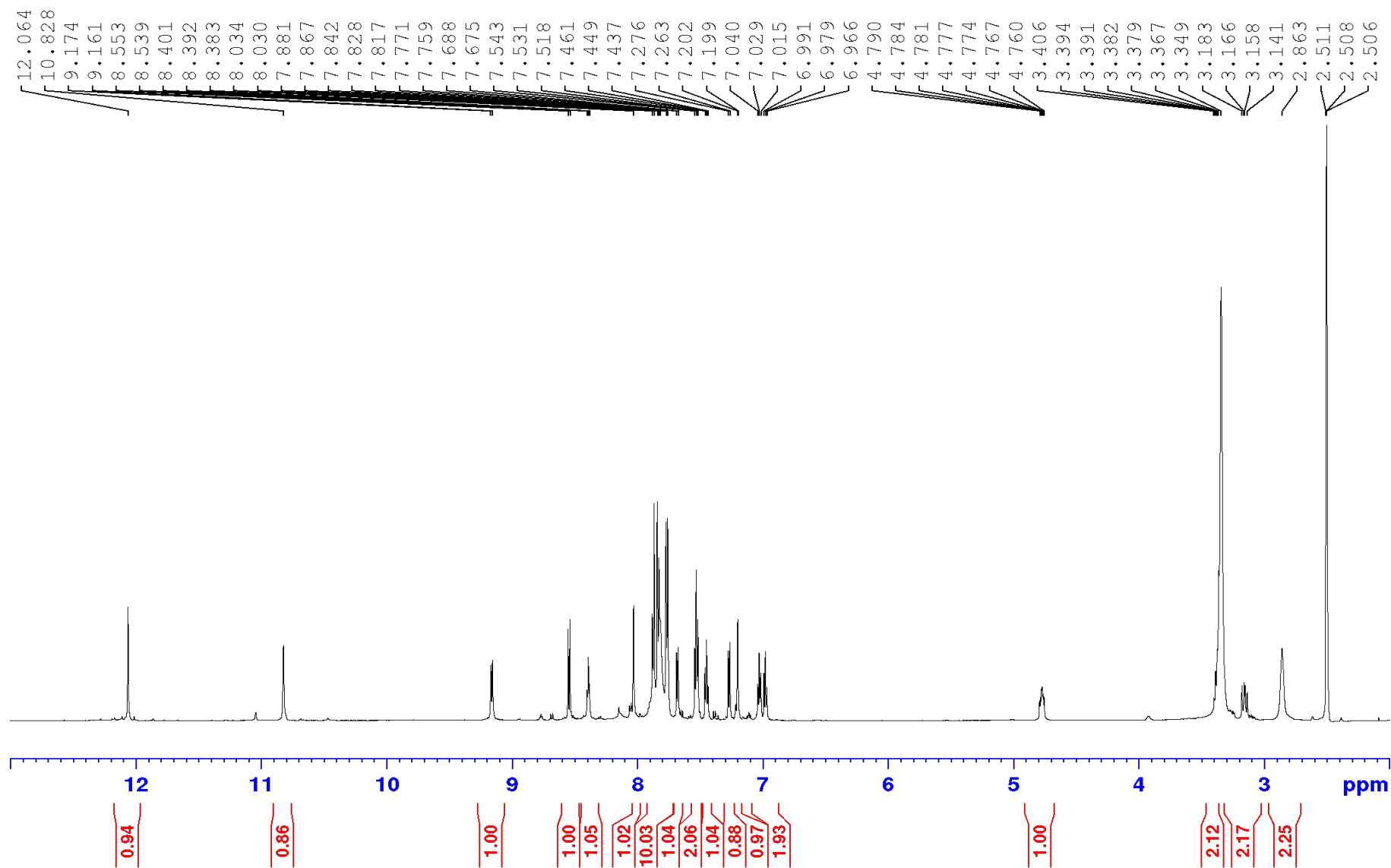
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-[1,1'-biphenyl]-3-carboxamide (12j)



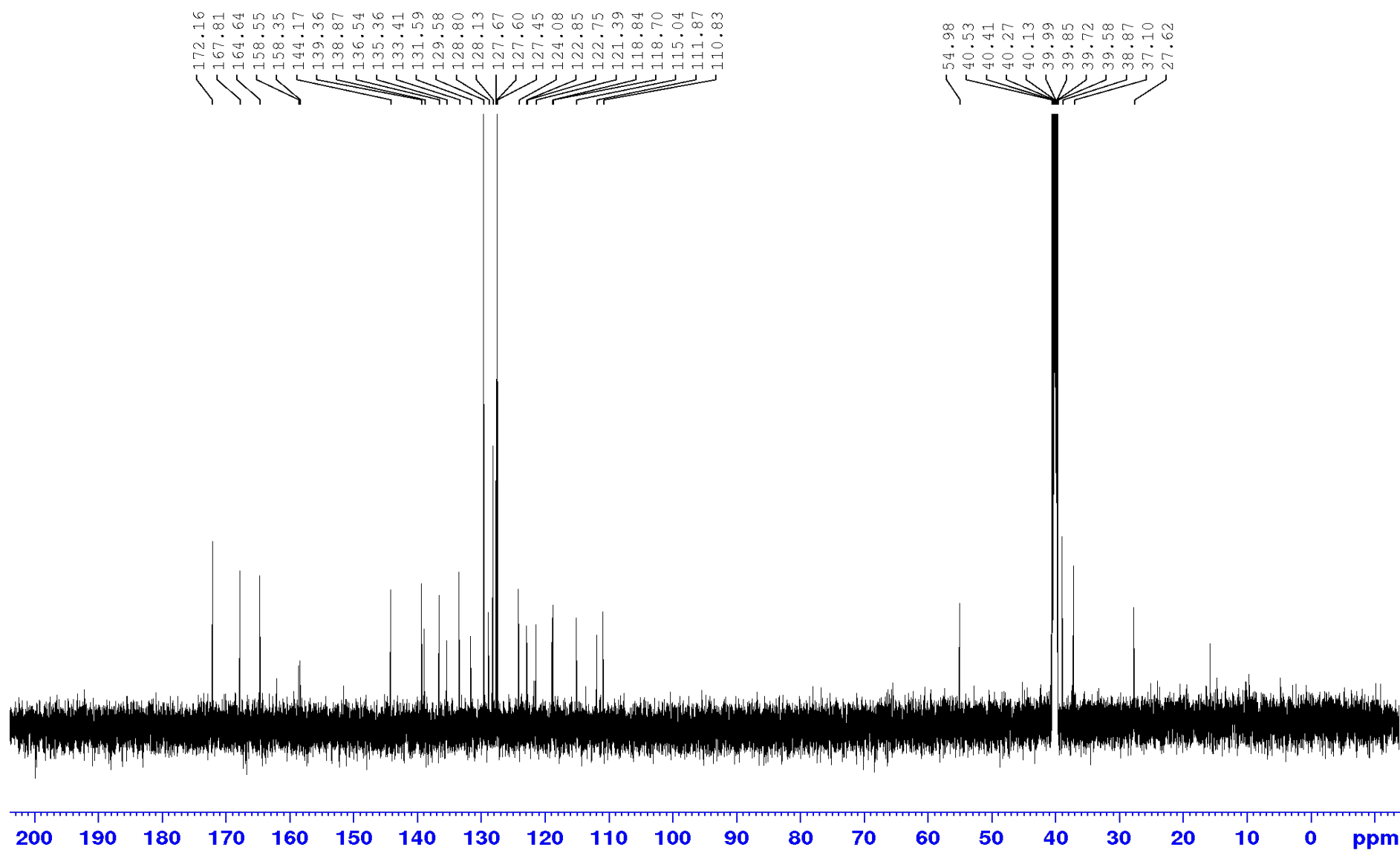
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-[1,1'-biphenyl]-3-carboxamide (12j)



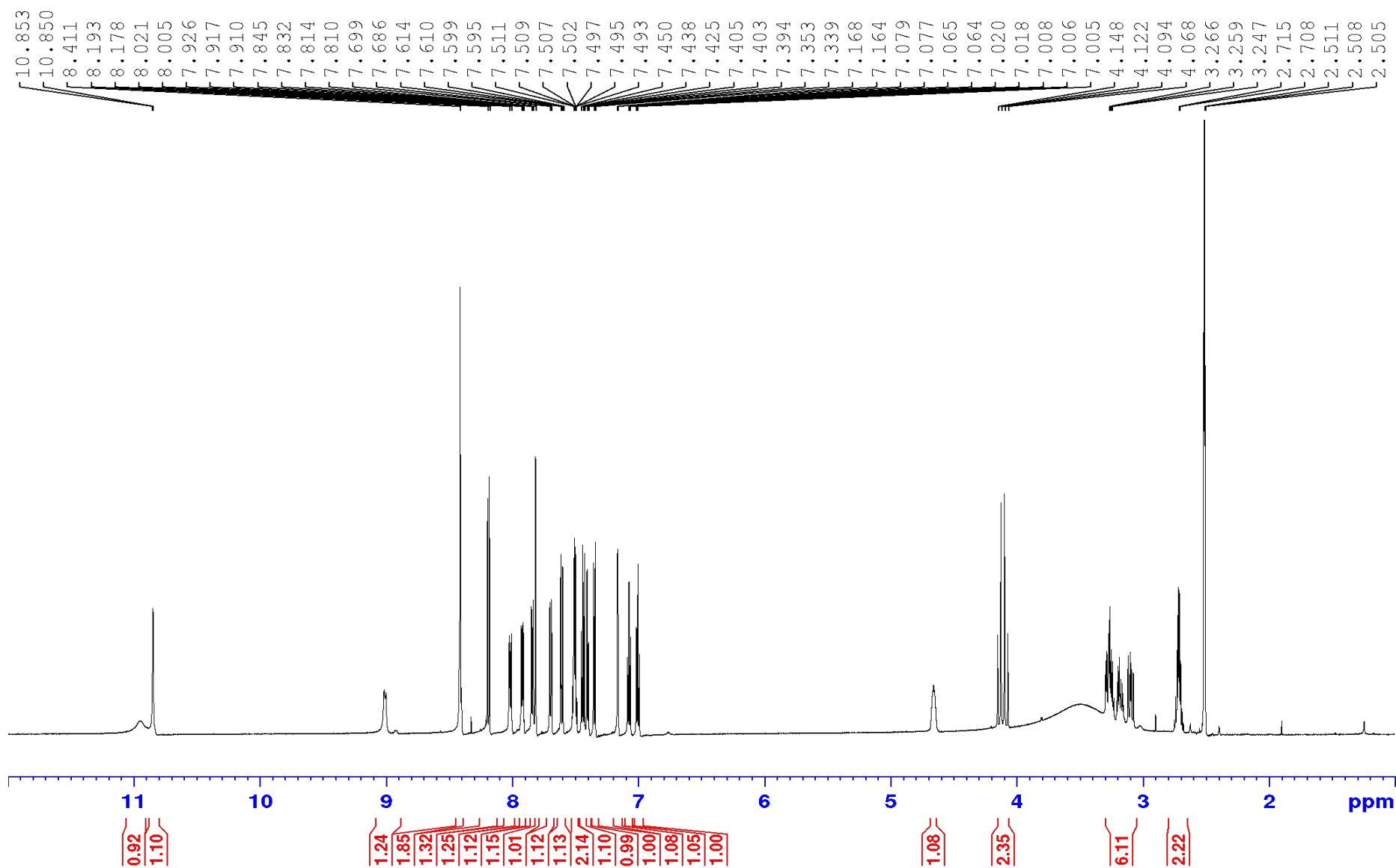
<sup>1</sup>H NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-[1,1'-biphenyl]-4-carboxamide (12k)



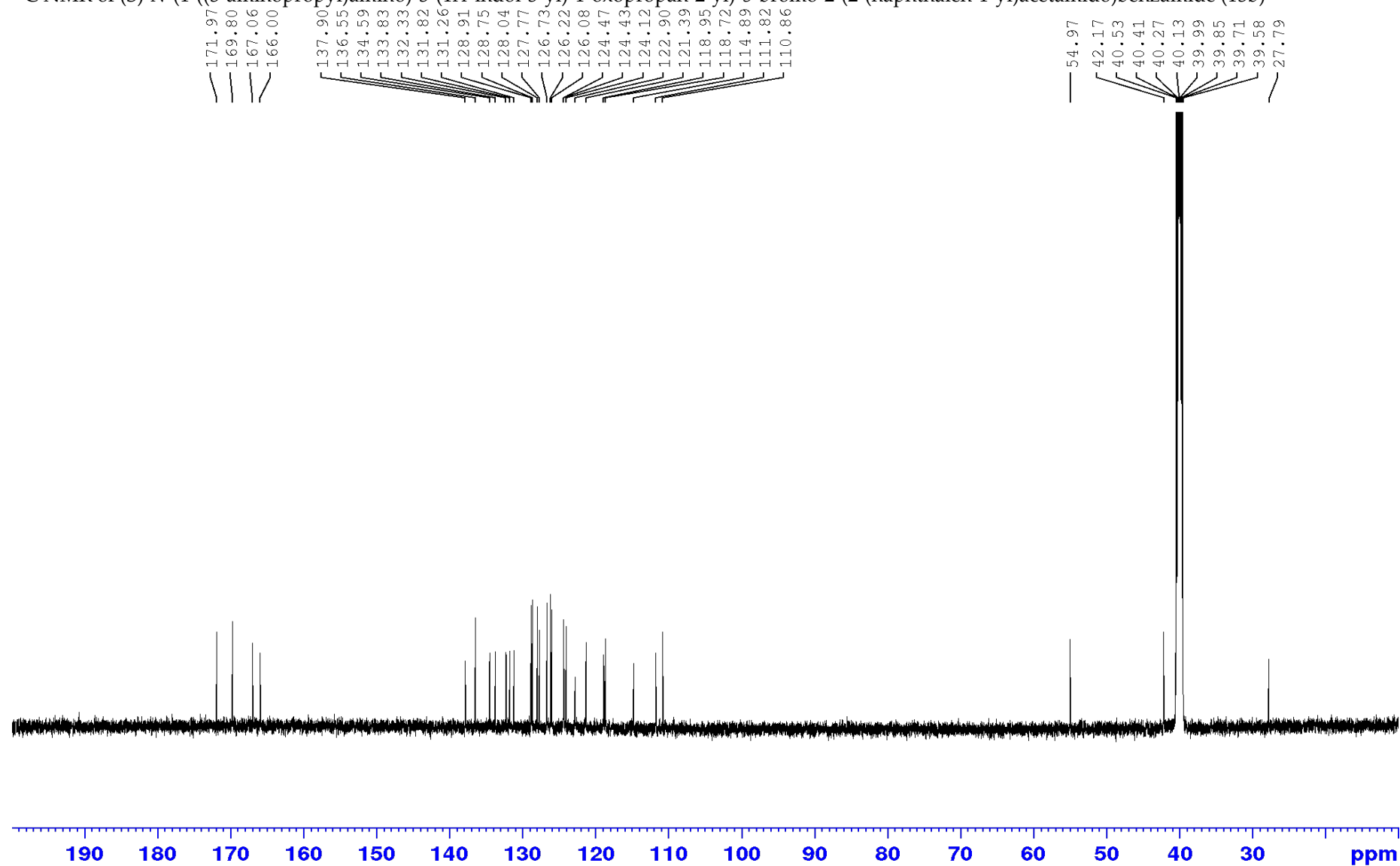
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-[1,1'-biphenyl]-4-carboxamide (12k)



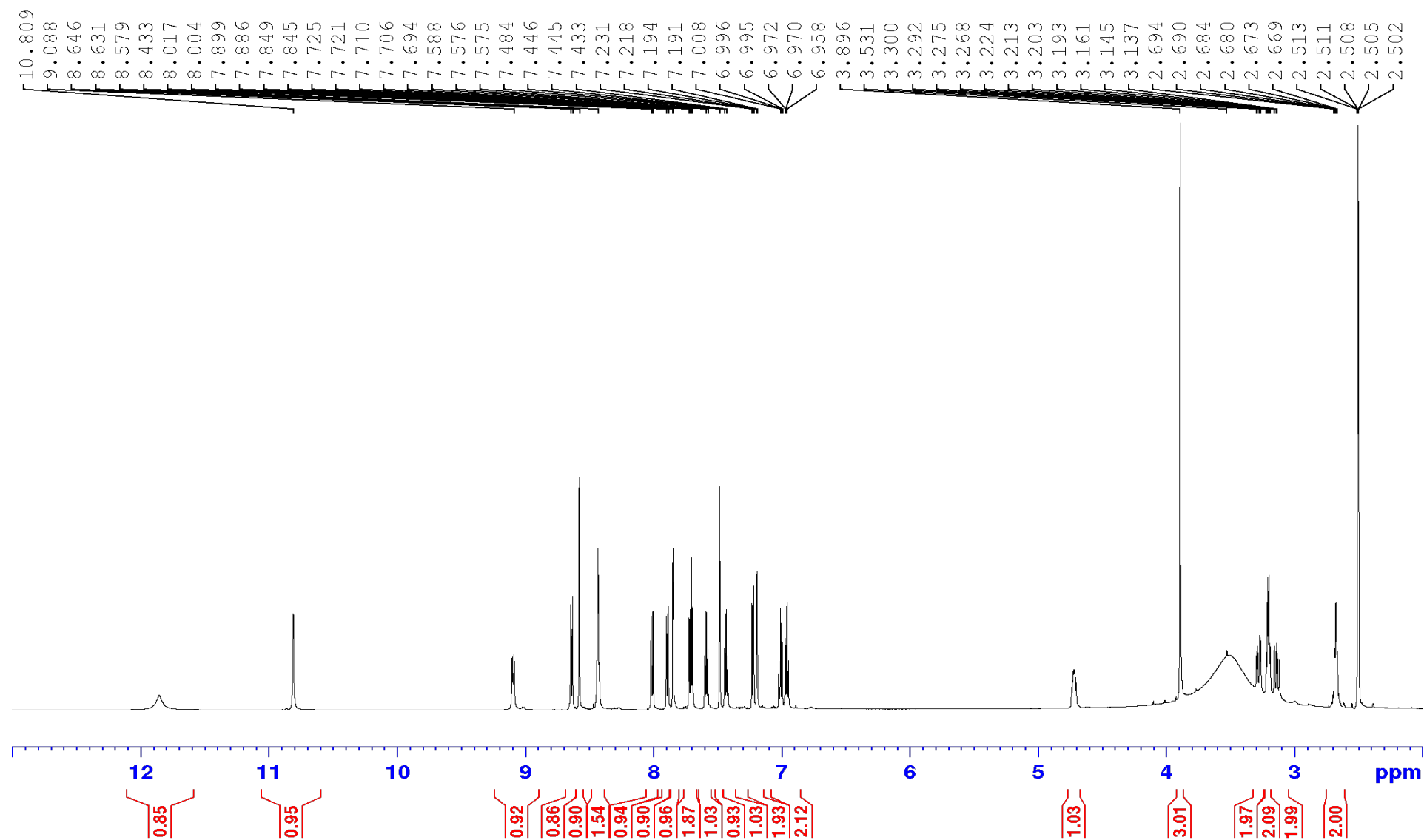
<sup>1</sup>H NMR of (S)-N-(1-((3-aminopropyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamide (13b)



$^{13}\text{C}$  NMR of (S)-N-(1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)-5-bromo-2-(2-(naphthalen-1-yl)acetamido)benzamide (13b)

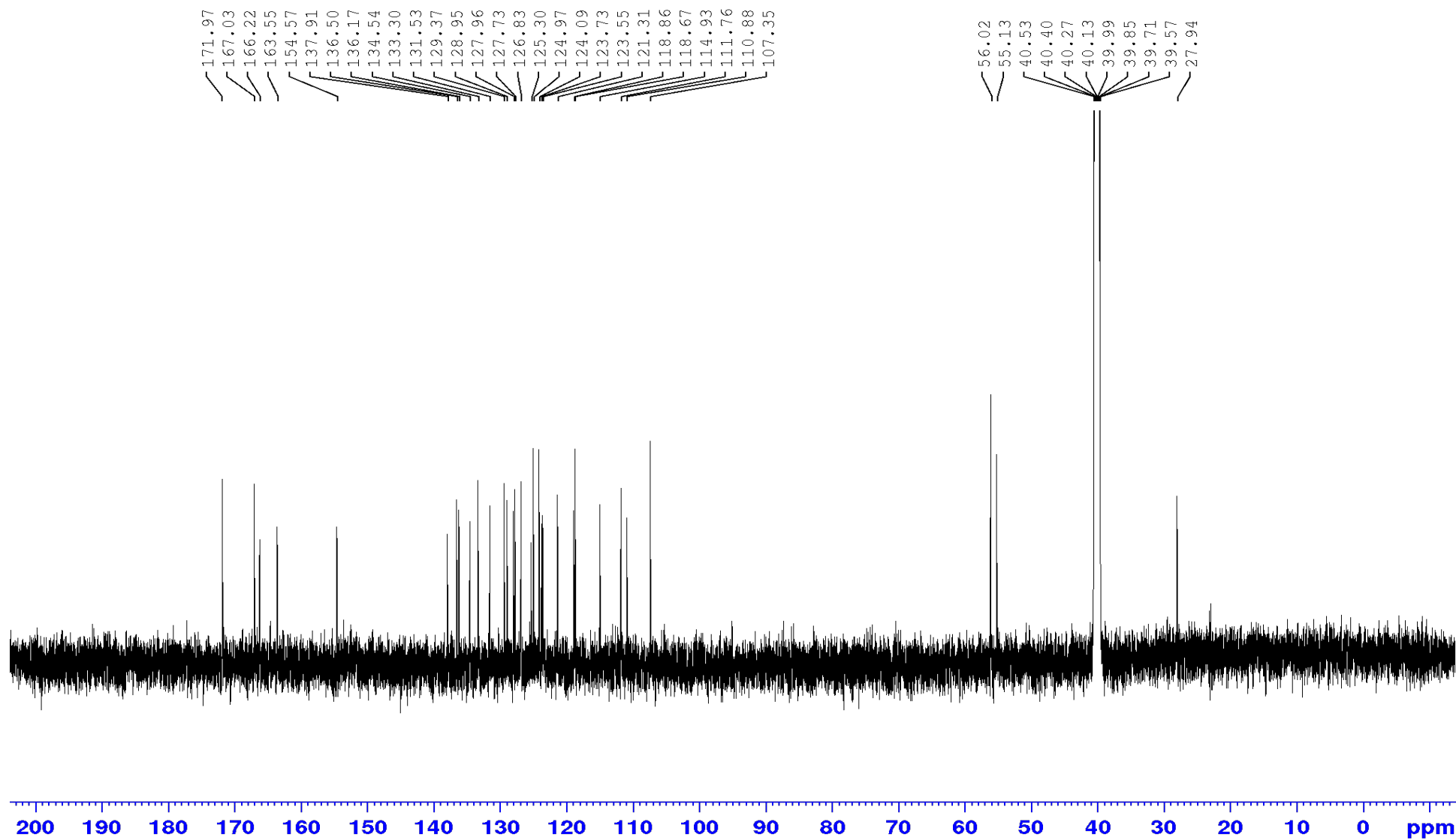


<sup>1</sup>H NMR of (S)-N-(2-((1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-2-methoxy-1-naphthamide (13c)

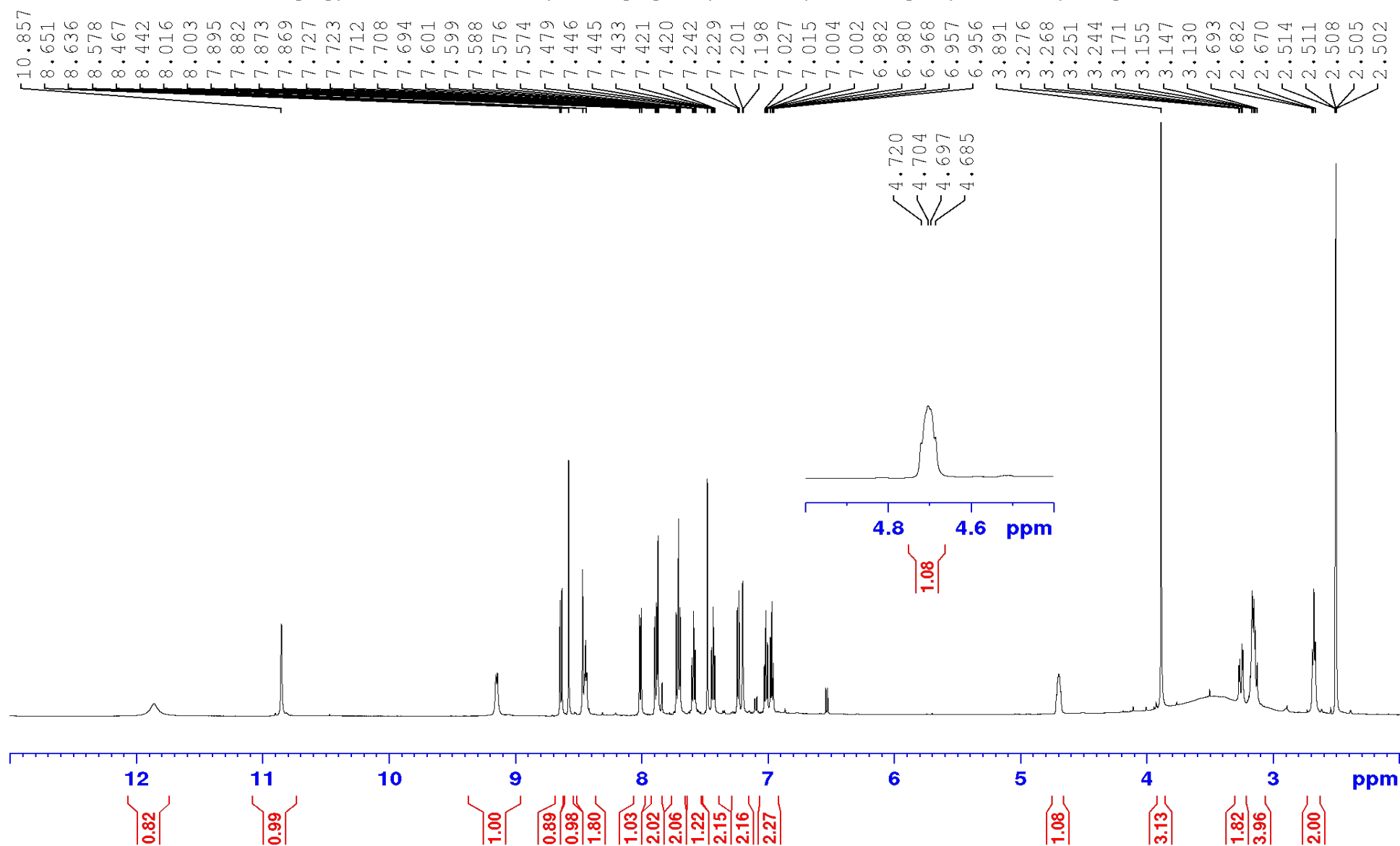




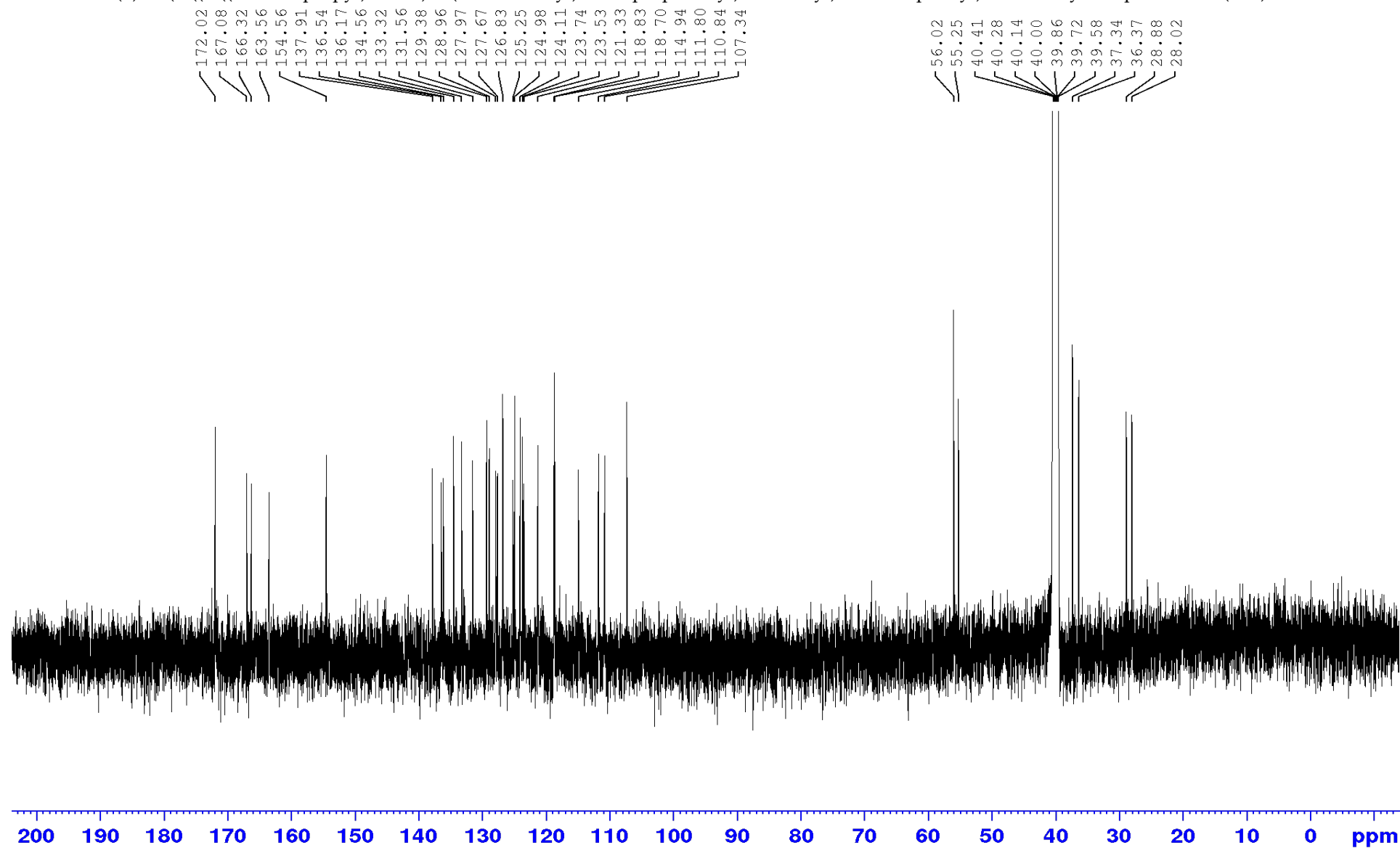
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-2-methoxy-1-naphthamide (13c)



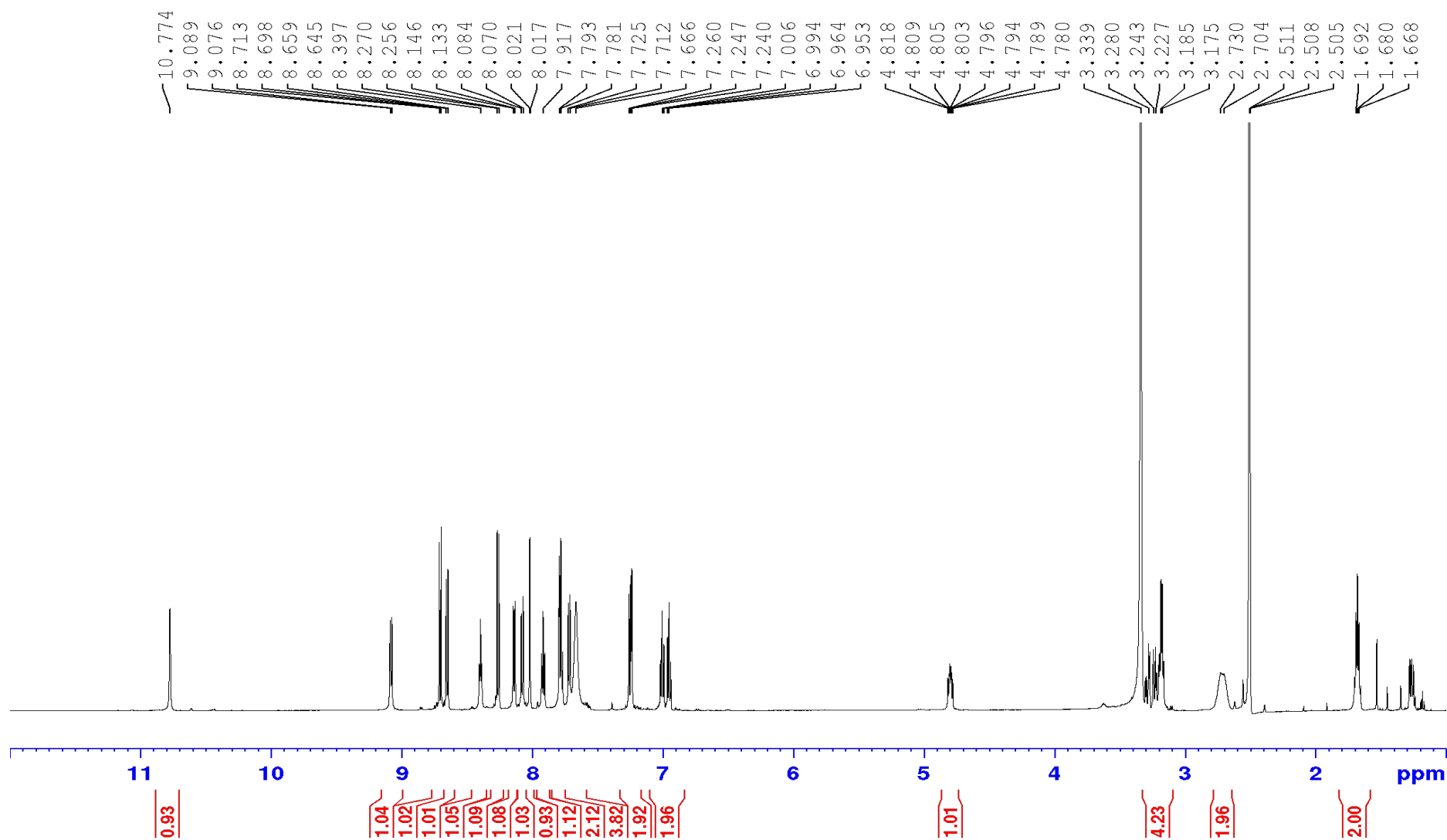
<sup>1</sup>H NMR of (S)-N-(2-((1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-3-methoxy-2-naphthamide (13d)



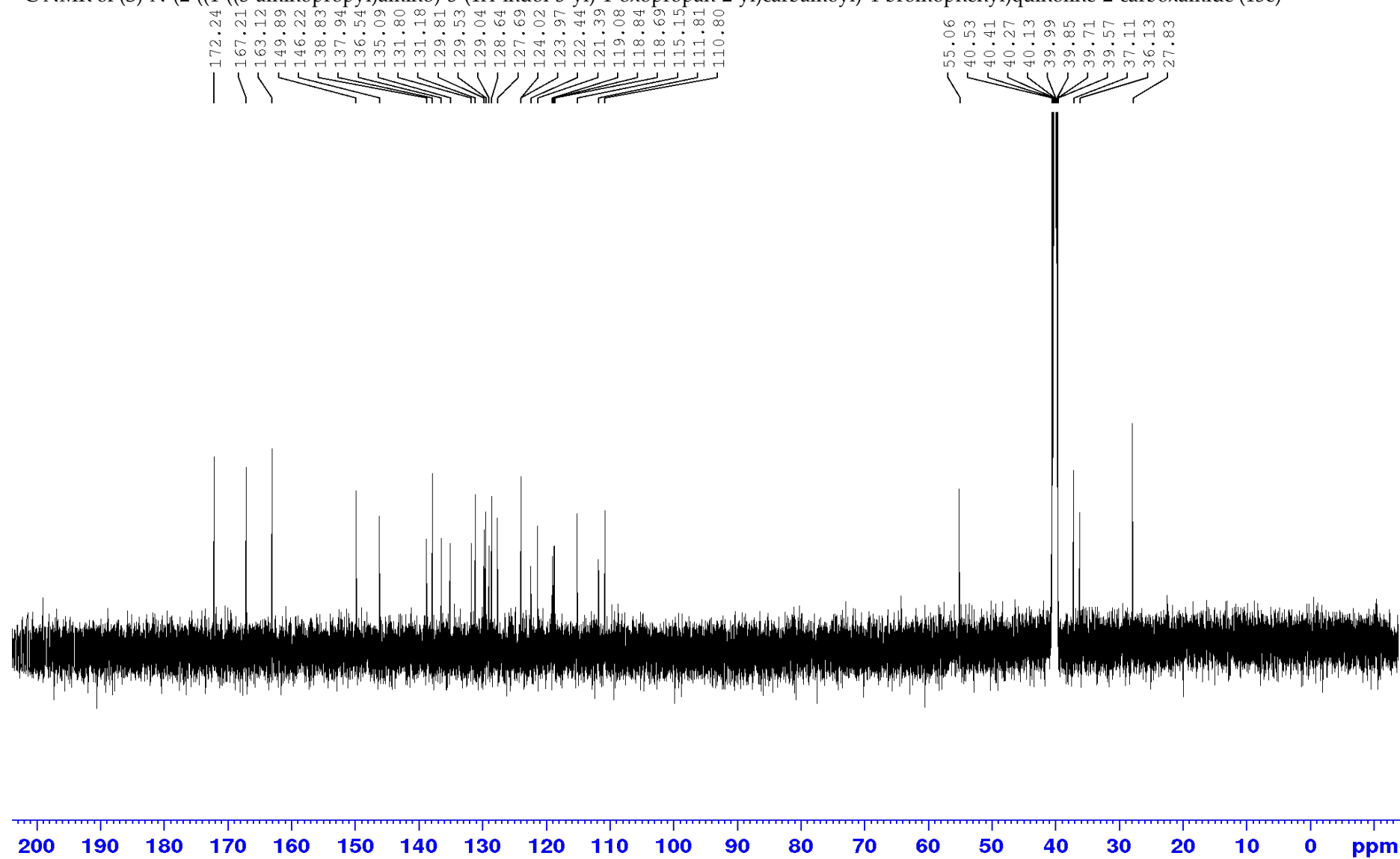
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)-3-methoxy-2-naphthamide (13d)



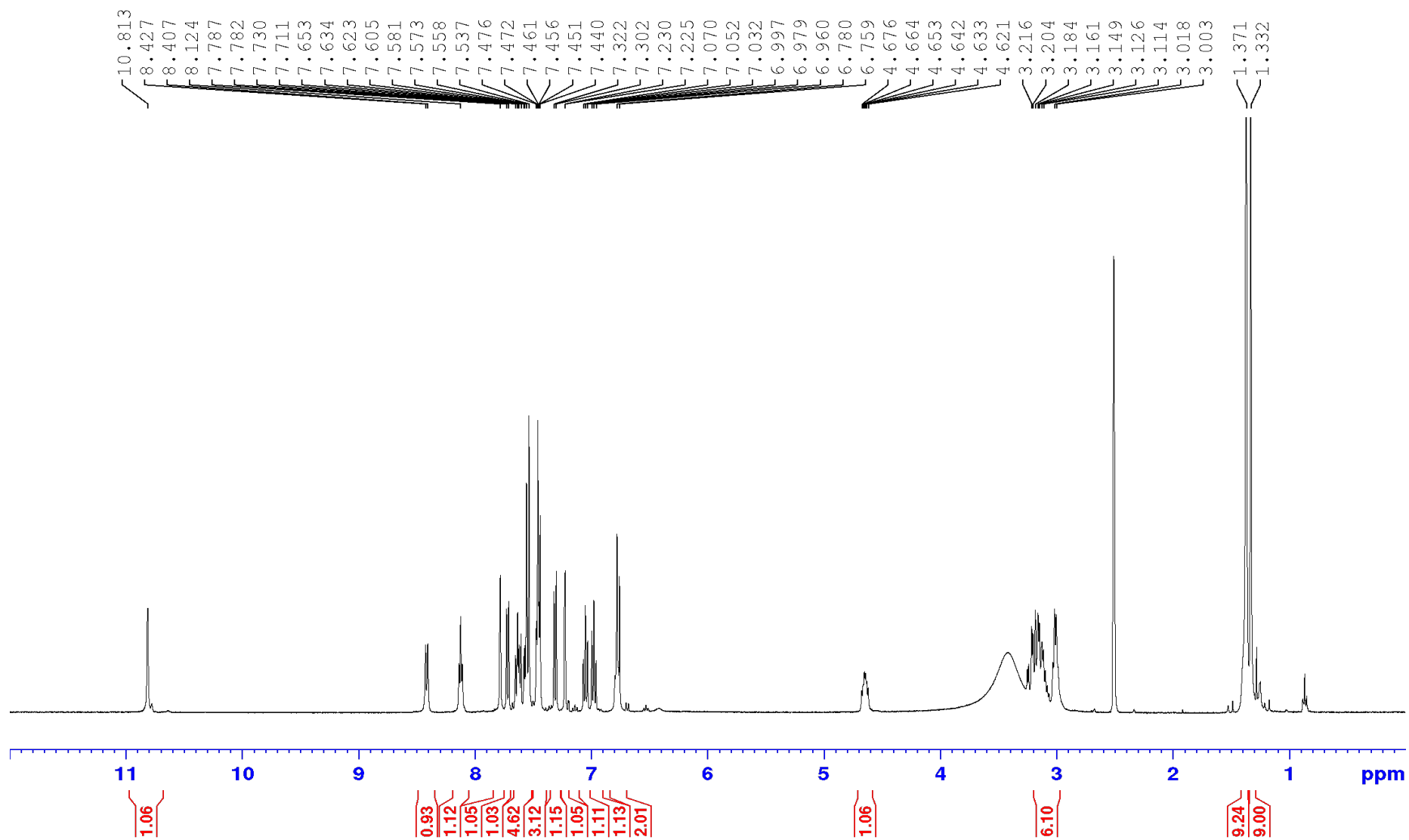
<sup>1</sup>H NMR of (S)-N-(2-((1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)quinoline-2-carboxamide (13e)



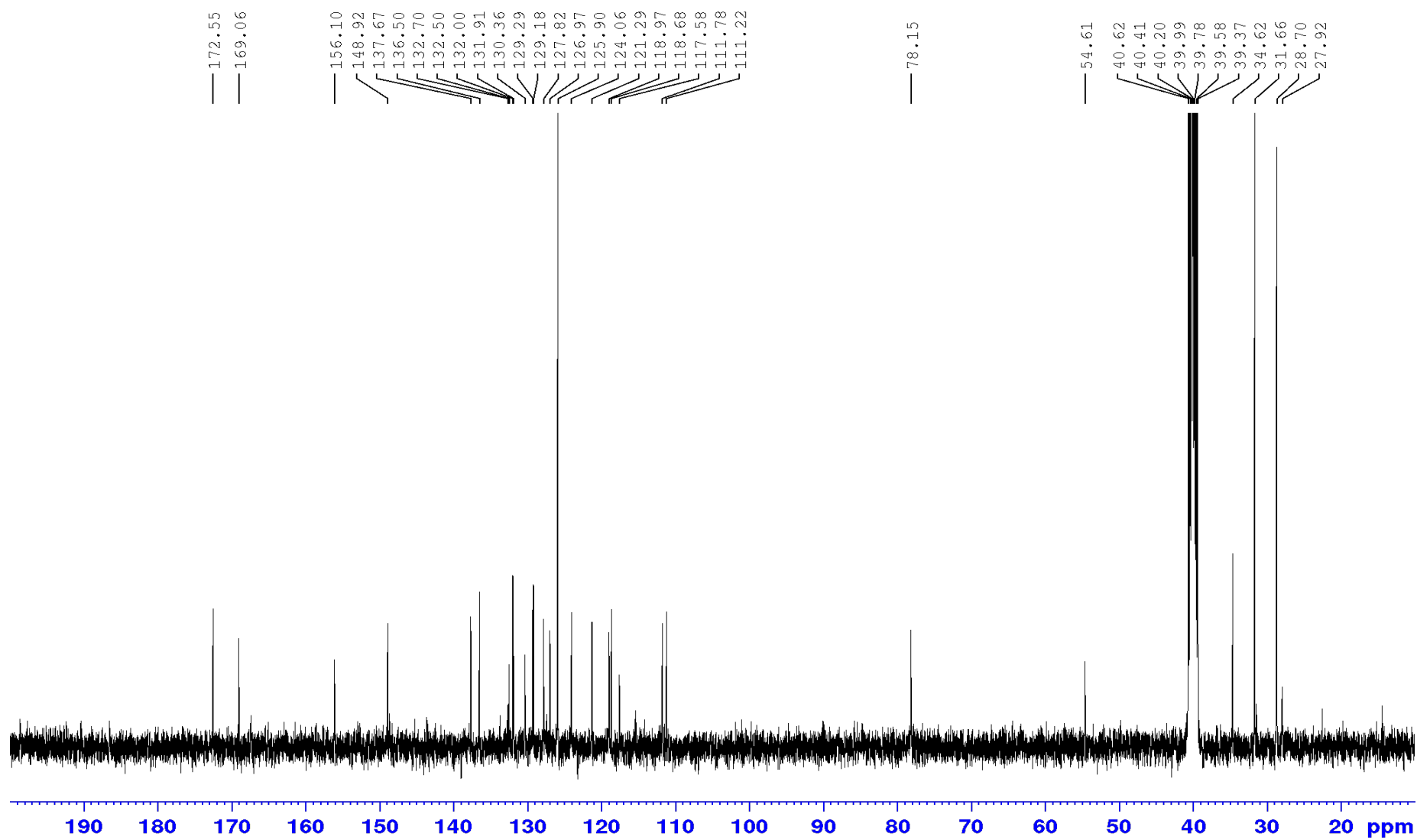
$^{13}\text{C}$  NMR of (S)-N-(2-((1-((3-aminopropyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)-4-bromophenyl)quinoline-2-carboxamide (13e)



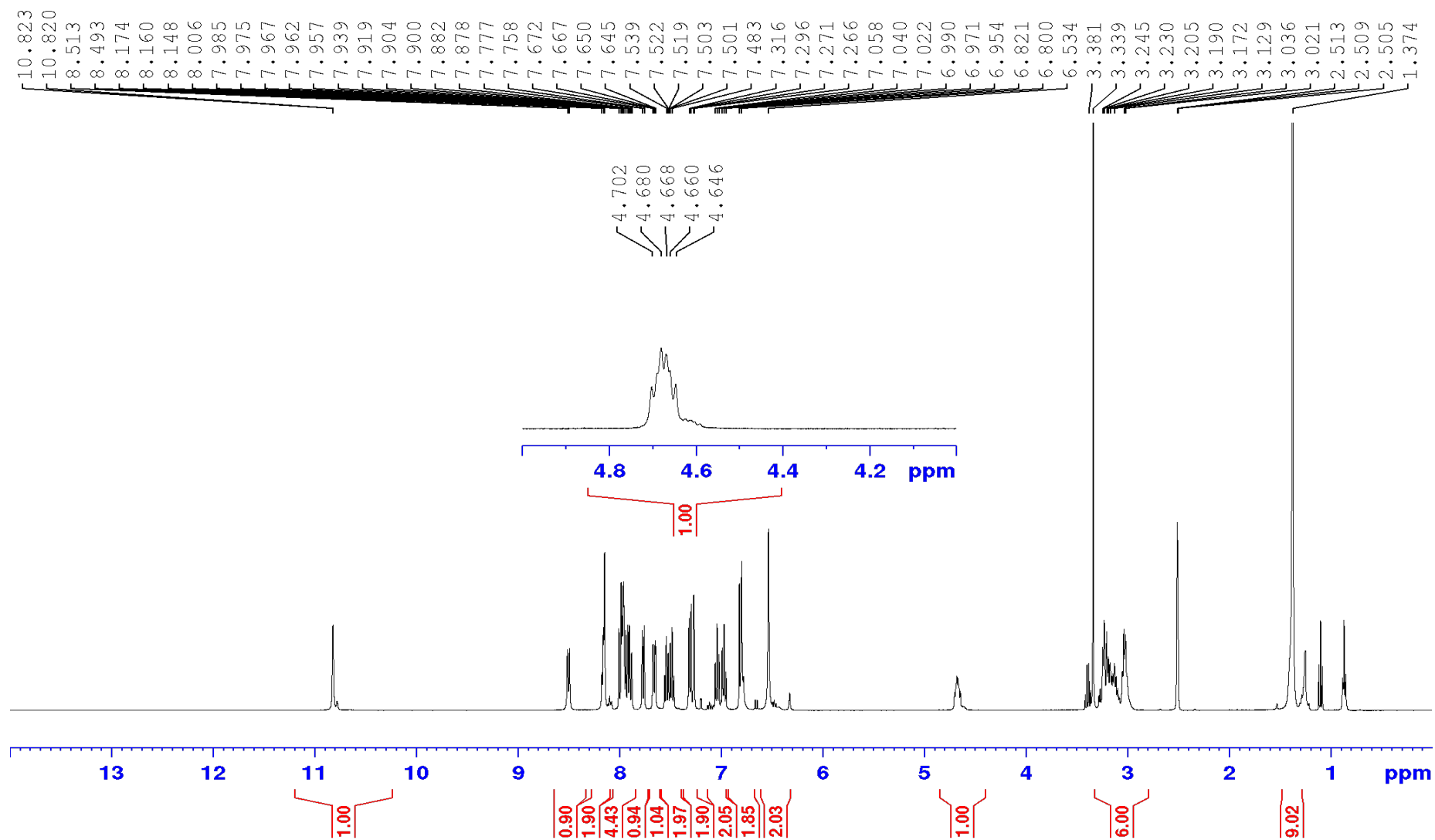
<sup>1</sup>H NMR of *tert*-butyl (S)-(2-(2-(4-amino-4'-(*tert*-butyl)-[1,1'-biphenyl]-3-carboxamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (15a)



$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(4-amino-4'-(*tert*-butyl)-[1,1'-biphenyl]-3-carboxamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)carbamate (15a)

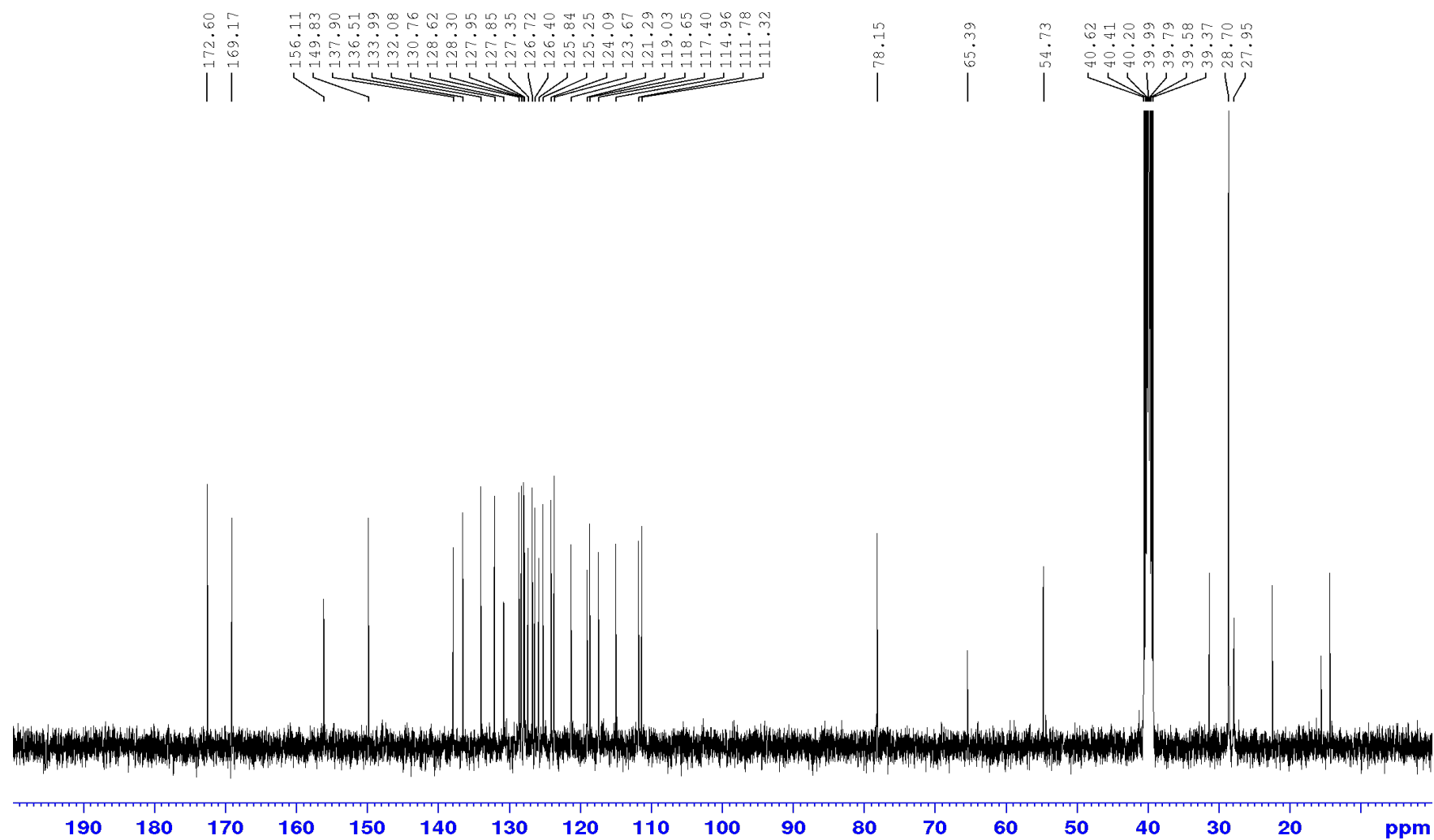


$^1\text{H}$  NMR of *tert*-butyl (S)-(2-(2-(2-amino-5-(naphthalen-2-yl)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (15b)

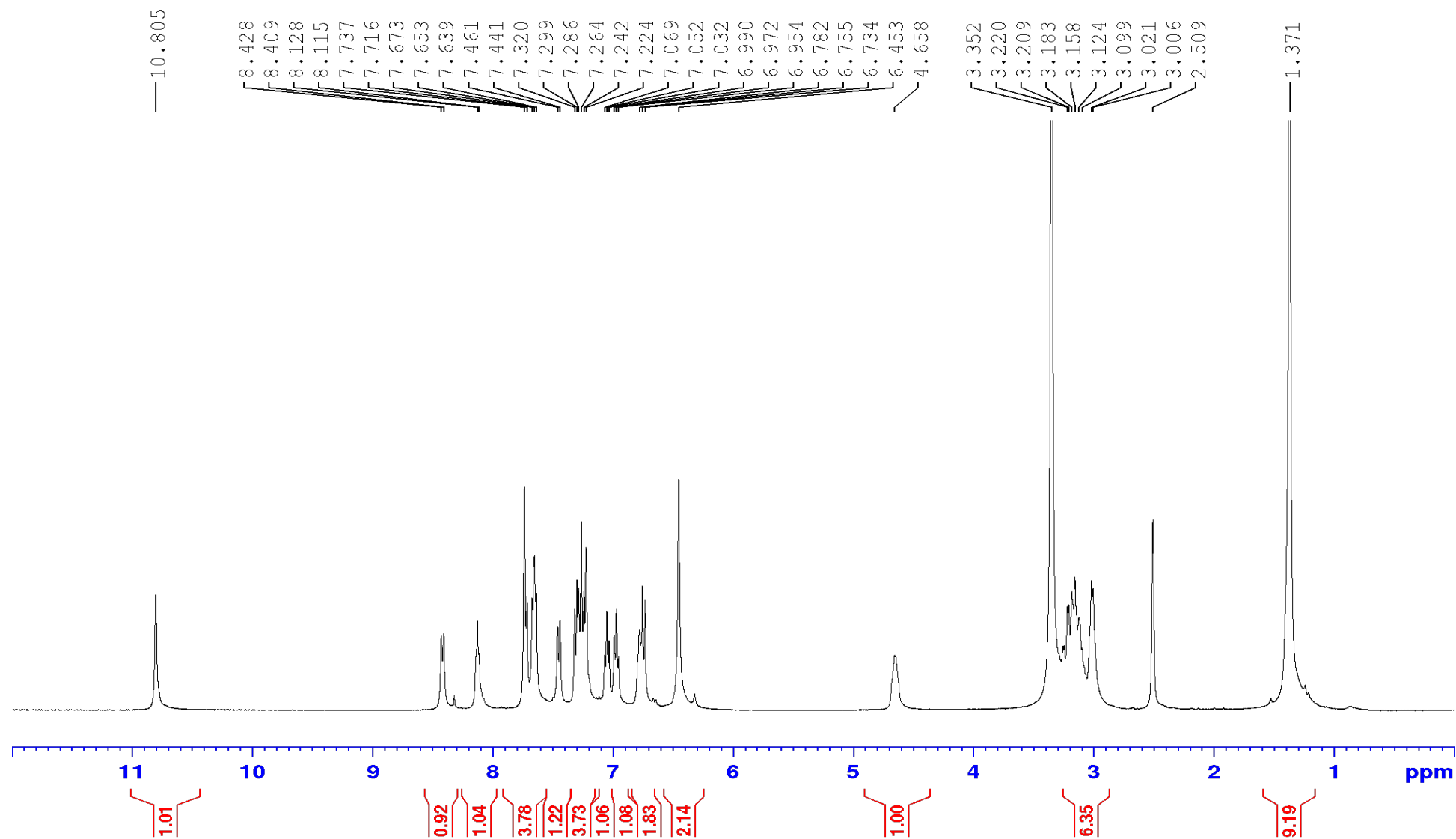




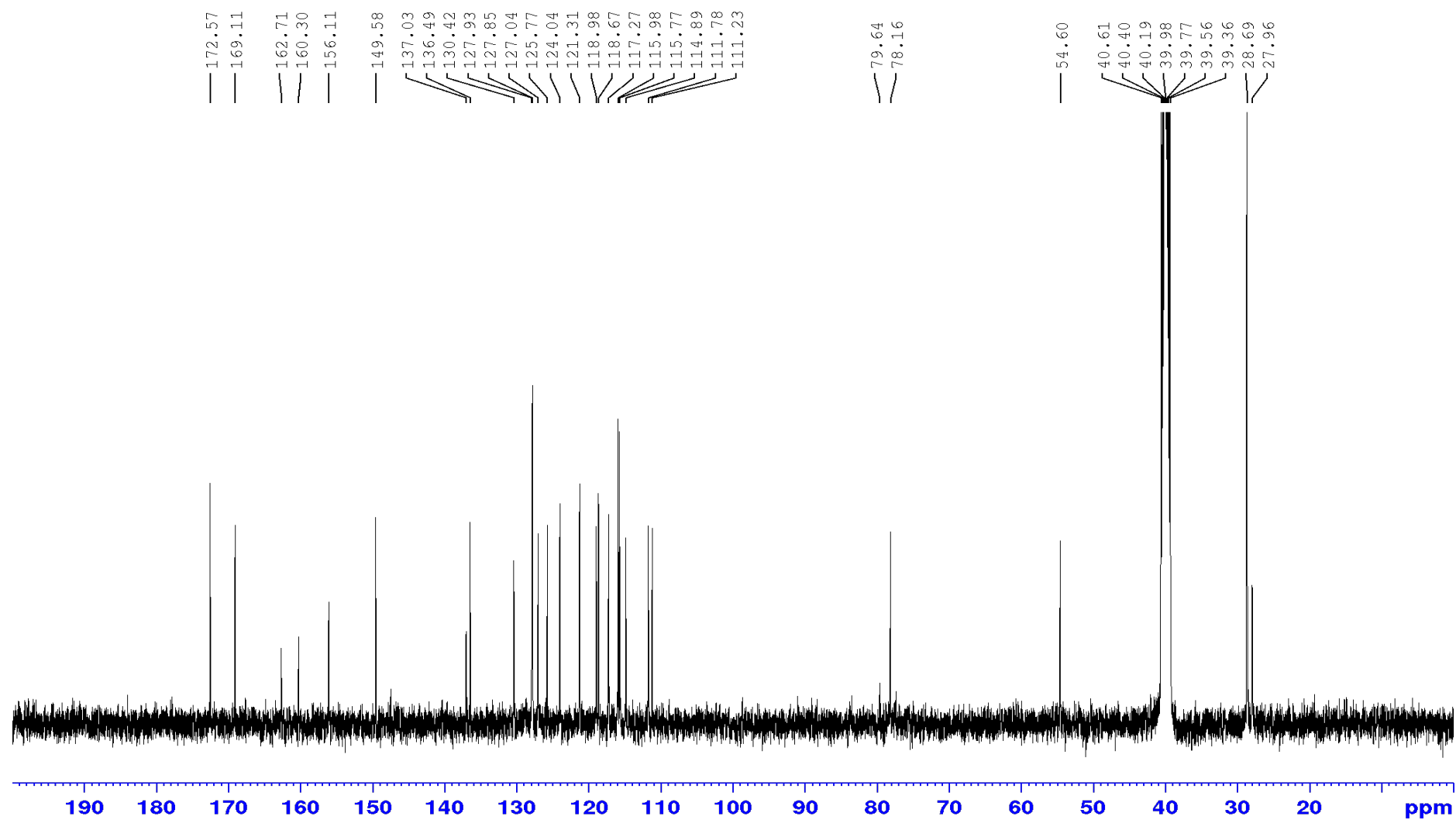
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(2-amino-5-(naphthalen-2-yl)benzamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (15b)



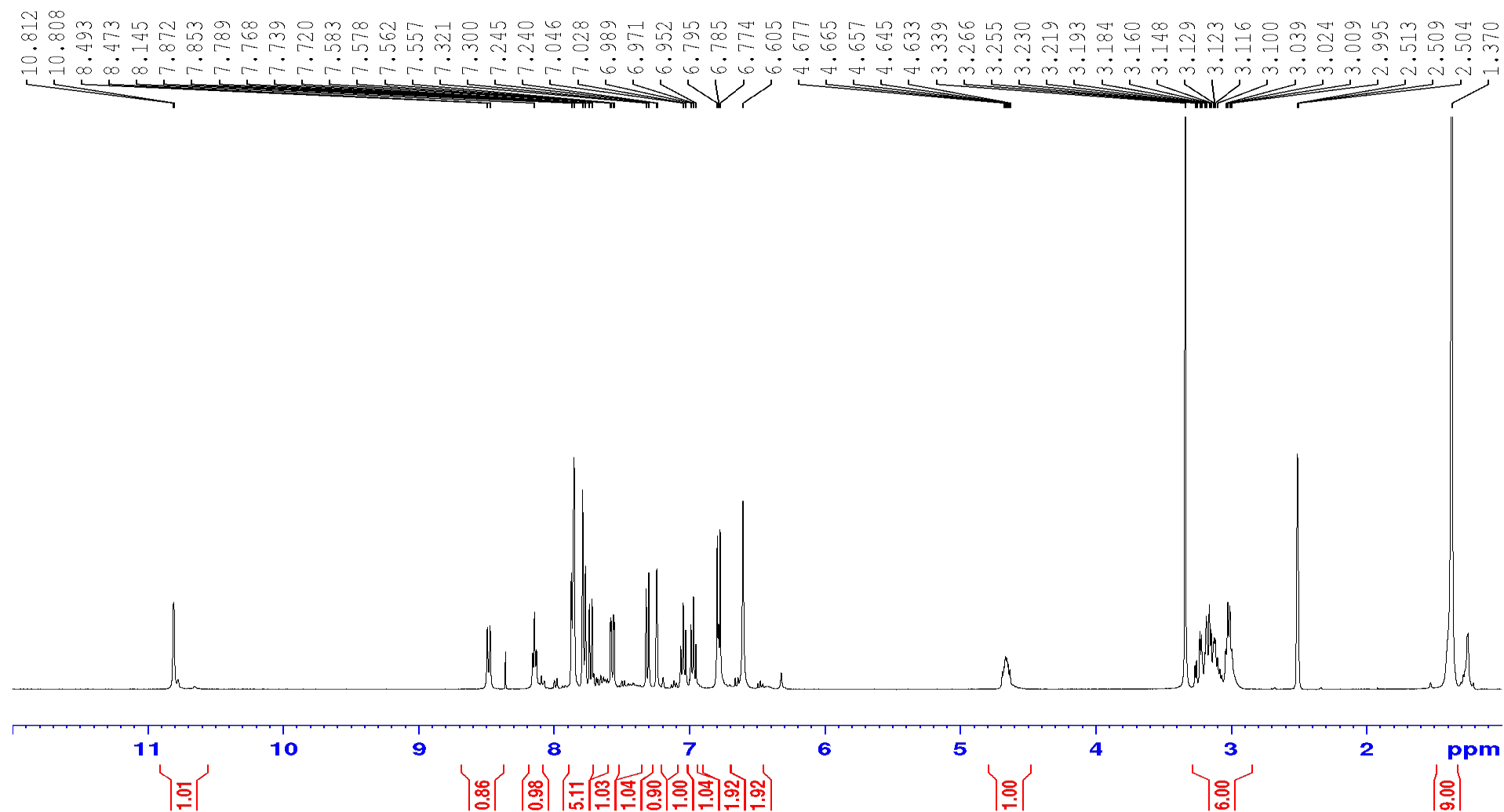
$^1\text{H}$  NMR of *tert*-butyl (S)-(2-(2-(4-amino-4'-fluoro-[1,1'-biphenyl]-3-carboxamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (15c)



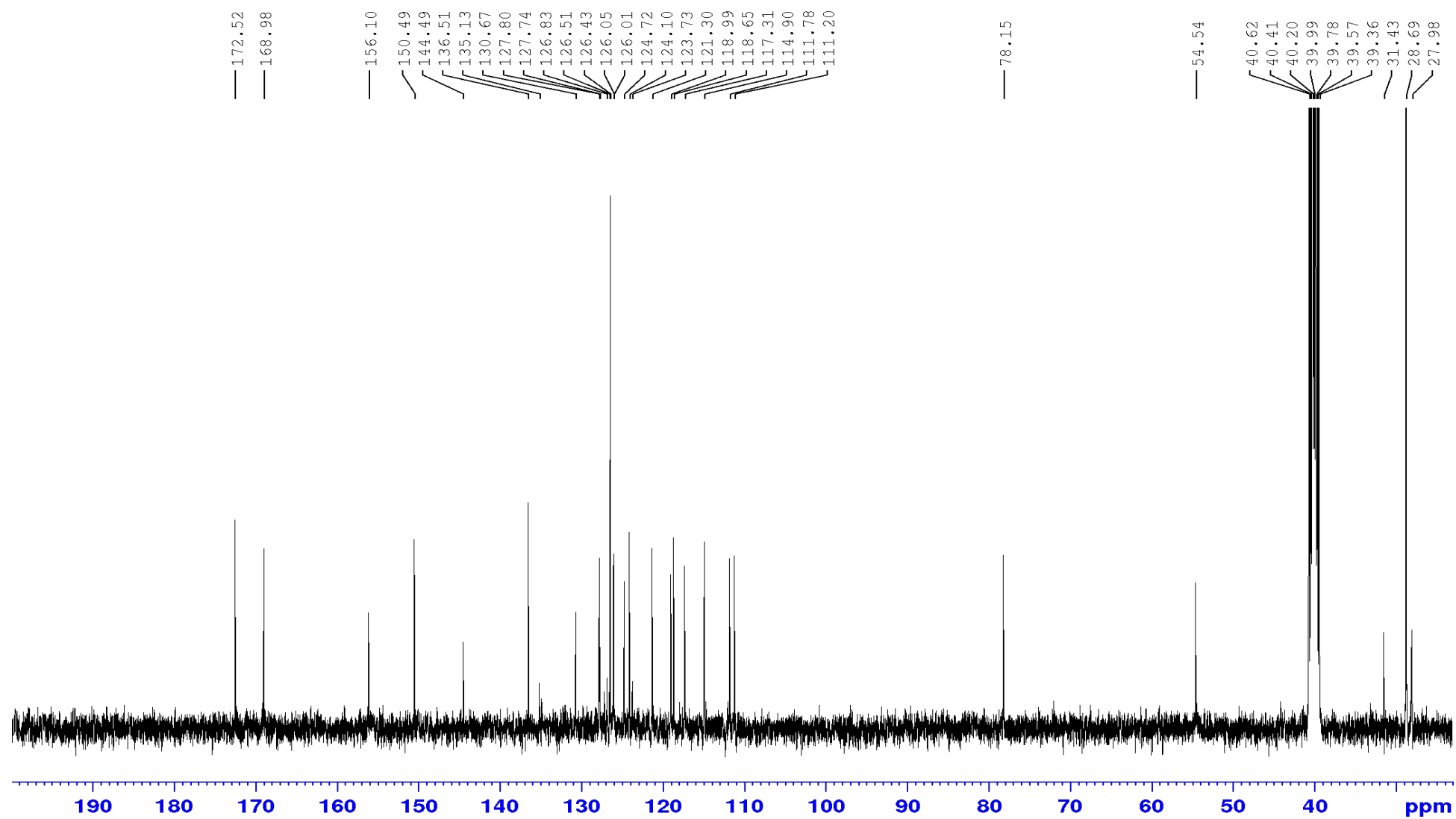
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(4-amino-4'-fluoro-[1,1'-biphenyl]-3-carboxamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (15c)



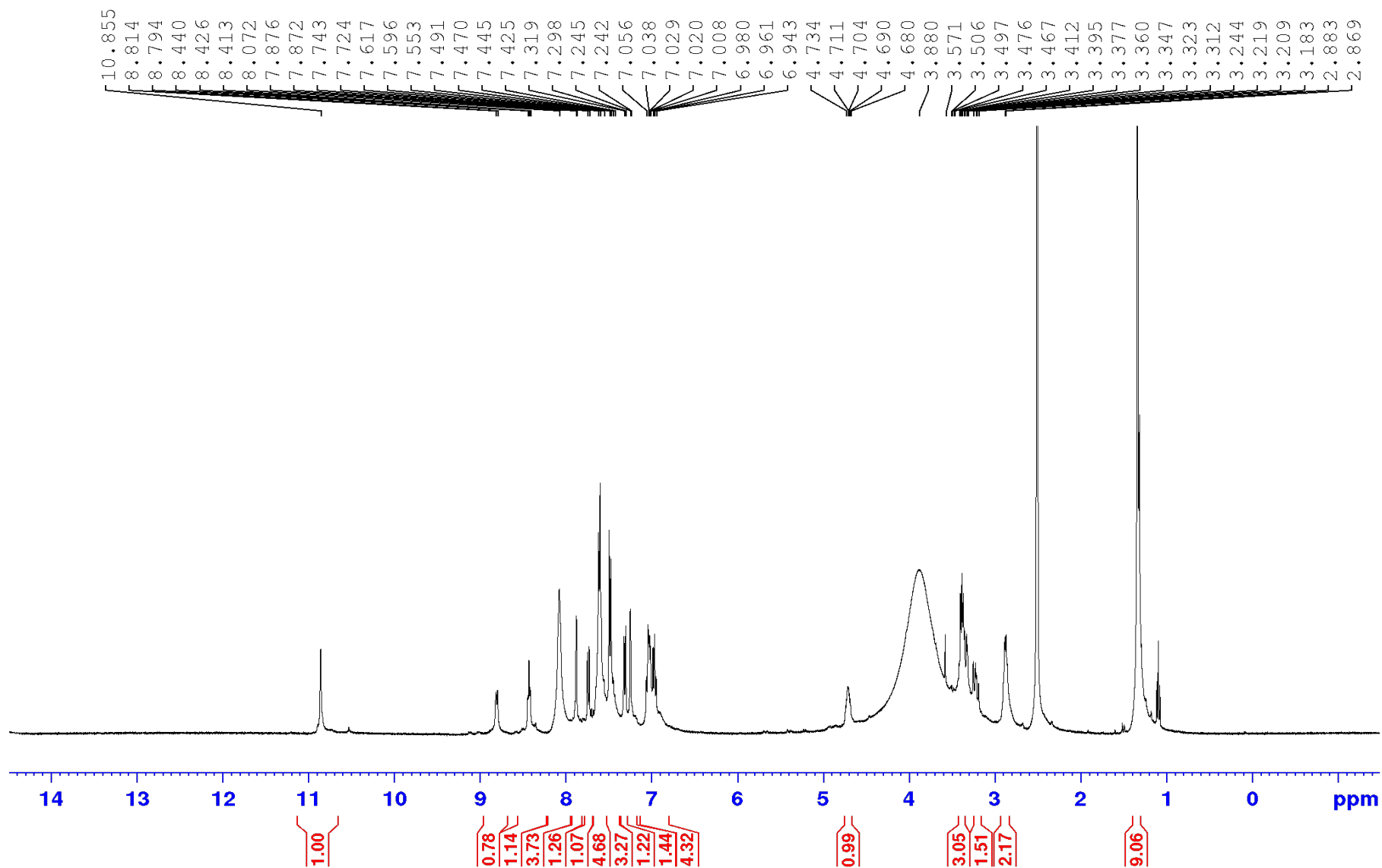
$^1\text{H}$  NMR of *tert*-butyl (S)-(2-(2-(4-amino-4'-(trifluoromethyl)-[1,1'-biphenyl]-3-carboxamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (15d)



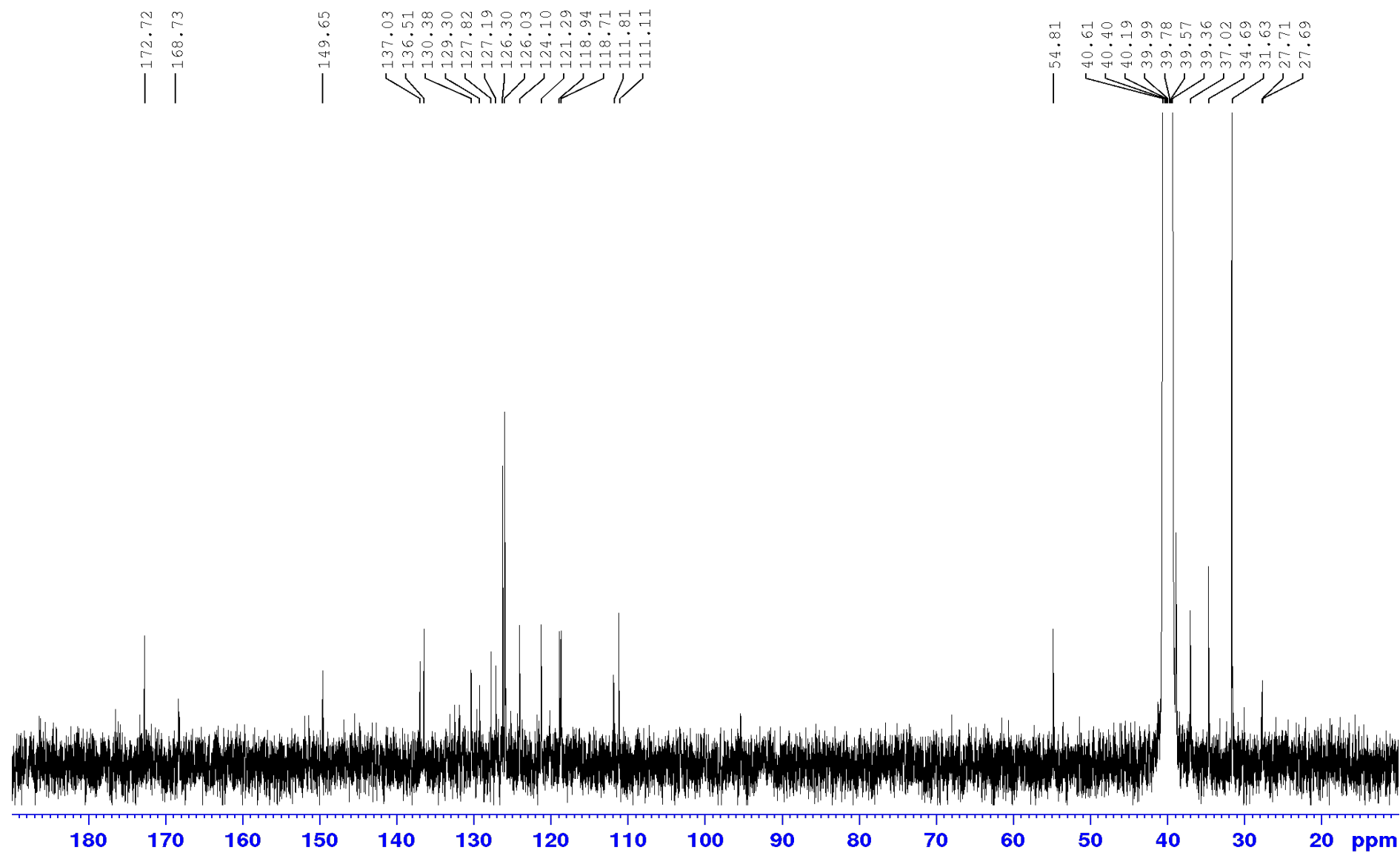
$^{13}\text{C}$  NMR of *tert*-butyl (S)-(2-(2-(4-amino-4'-(trifluoromethyl)-[1,1'-biphenyl]-3-carboxamido)-3-(1H-indol-3-yl)propanamido)ethyl)carbamate (15d)



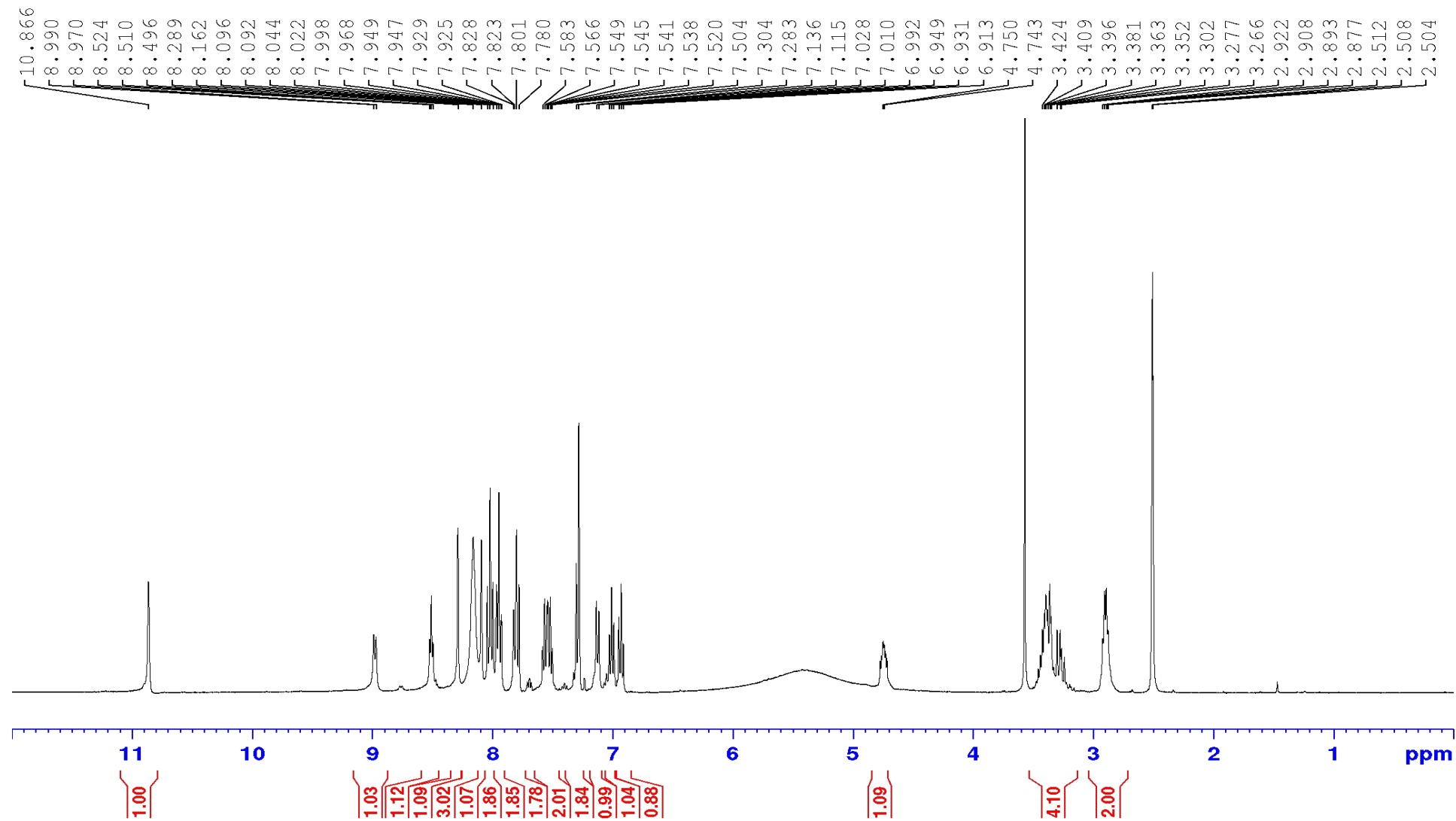
<sup>1</sup>H NMR of (S)-4-amino-N-(1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-4'-(tert-butyl)-[1,1'-biphenyl]-3-carboxamide (16a)



$^{13}\text{C}$  NMR of (S)-4-amino-N-(1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-4'-(tert-butyl)-[1,1'-biphenyl]-3-carboxamide (16a)

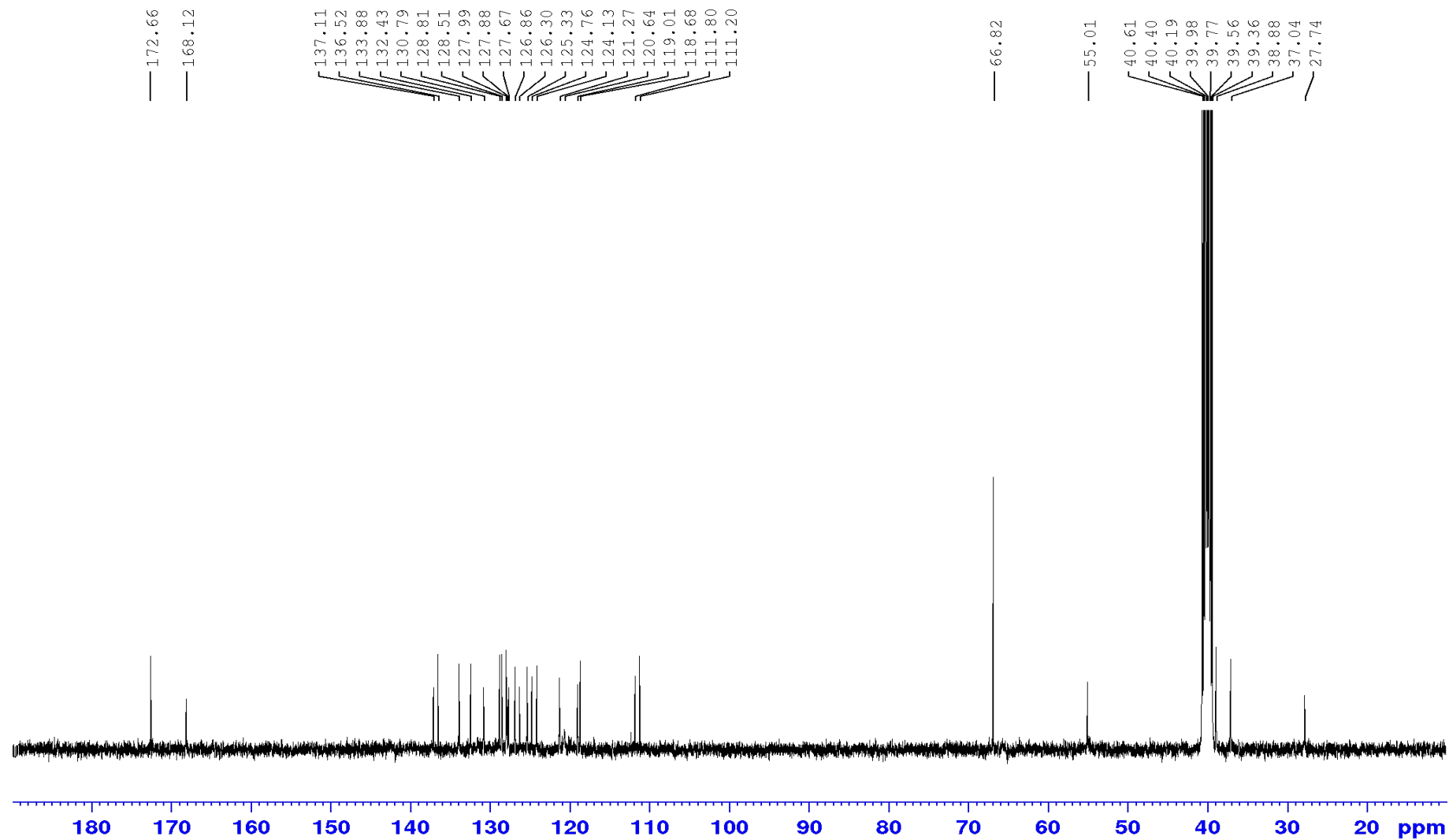


<sup>1</sup>H NMR of (S)-2-amino-N-(1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)-5-(naphthalen-2-yl)benzamide (16b)

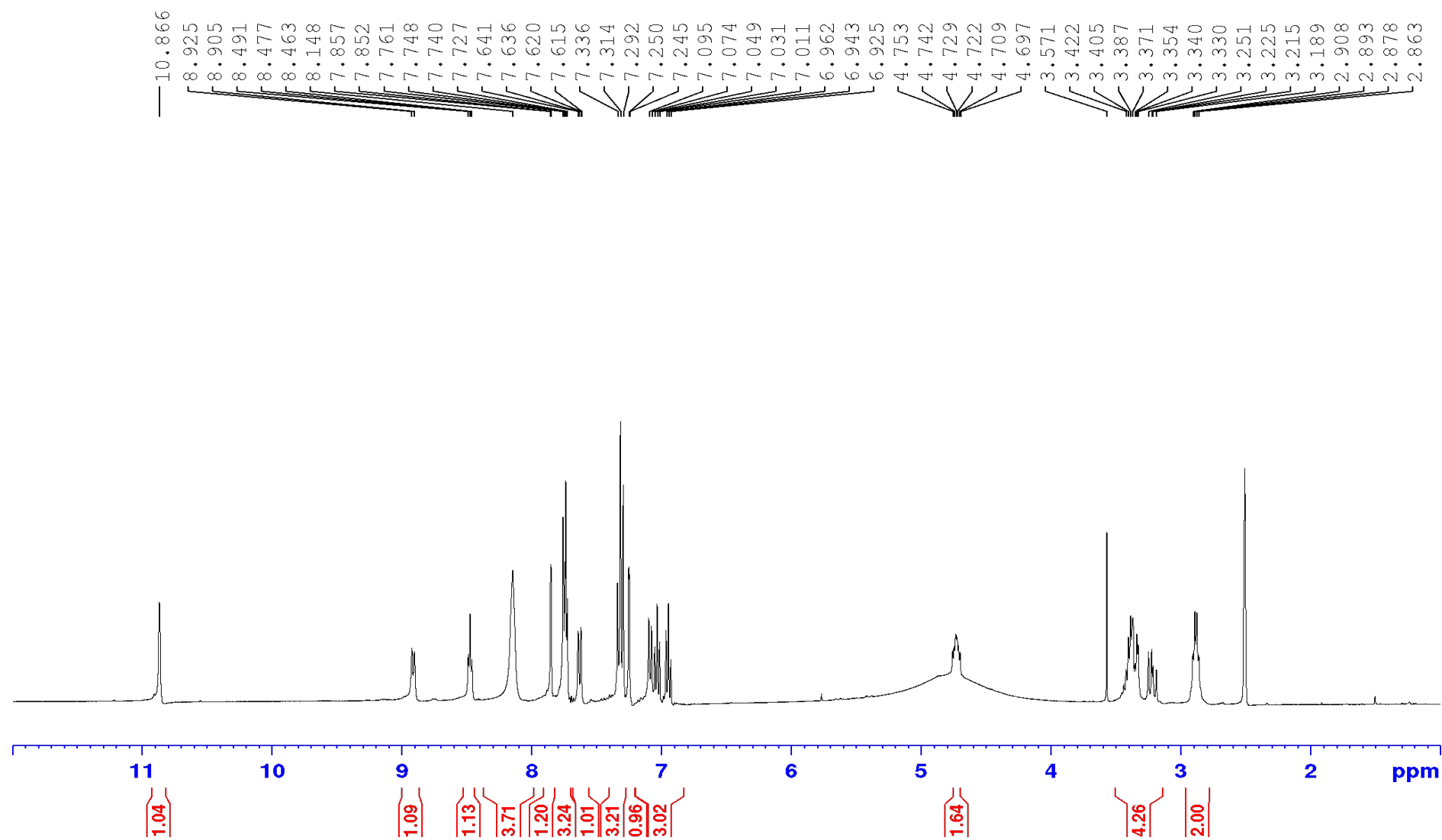




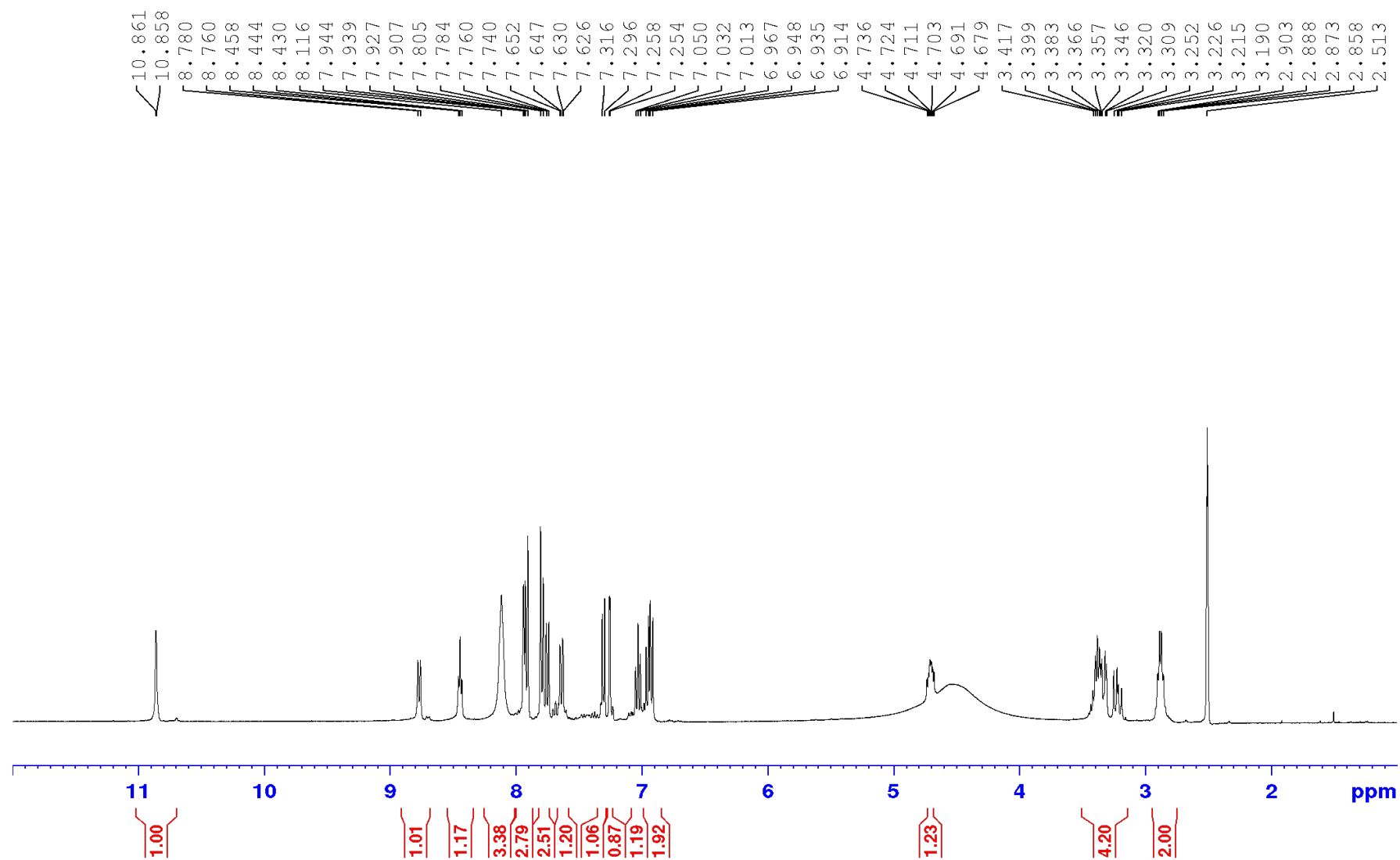
$^{13}\text{C}$  NMR of (S)-2-amino-N-(1-((2-aminoethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)-5-(naphthalen-2-yl)benzamide (16b)



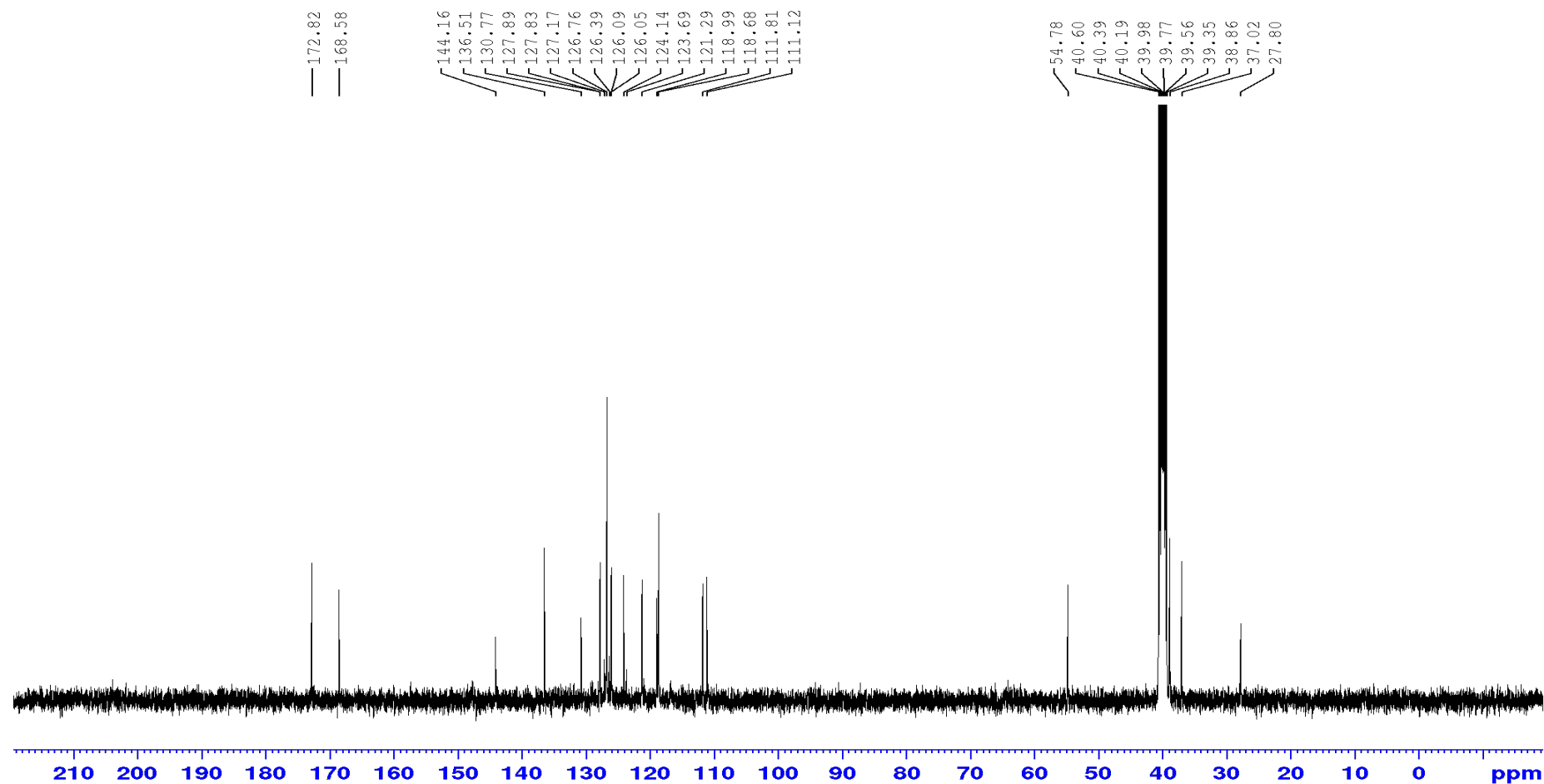
<sup>1</sup>H NMR of (S)-4-amino-N-(1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-4'-fluoro-[1,1'-biphenyl]-3-carboxamide (16c)



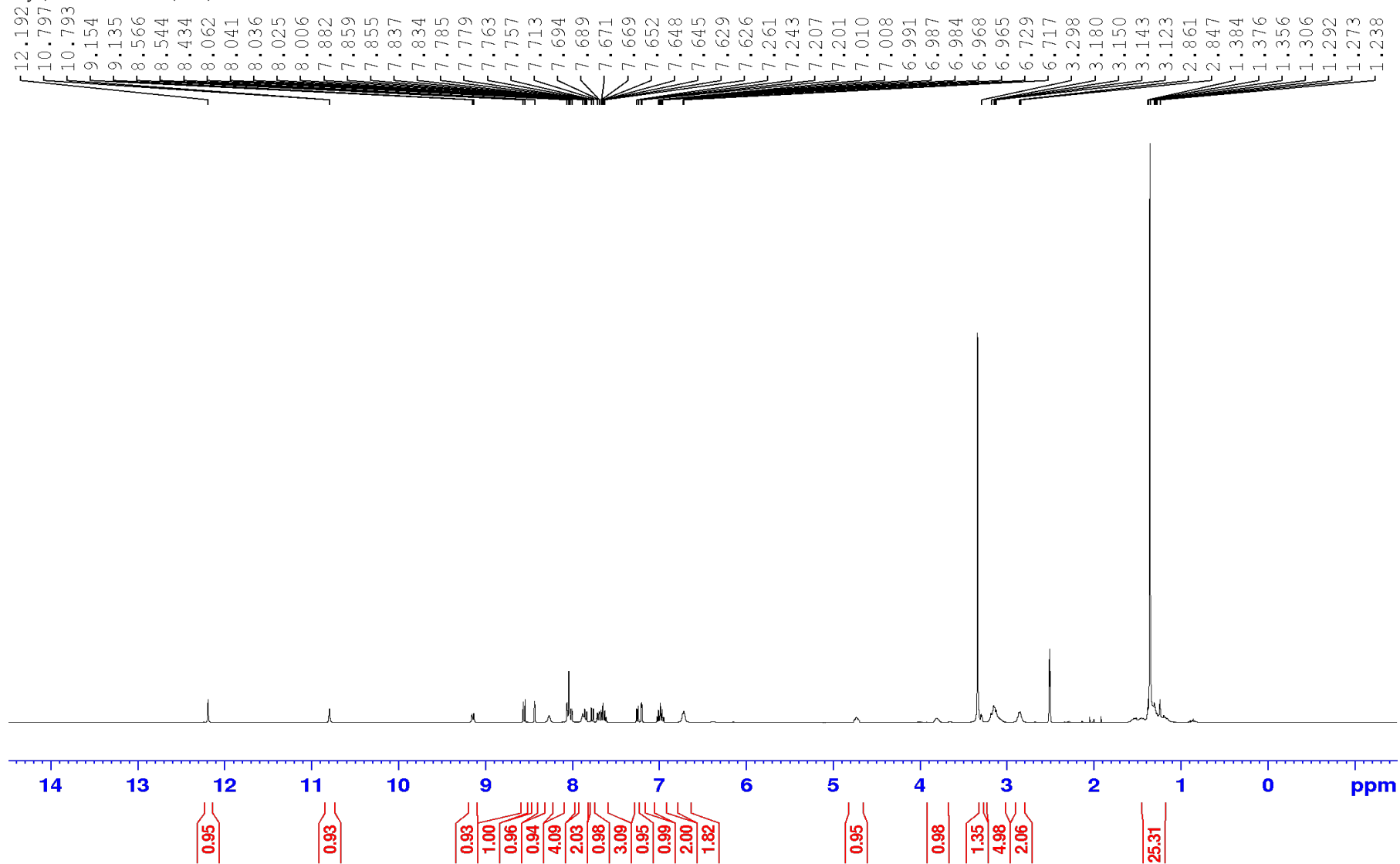
<sup>1</sup>H NMR of (S)-4-amino-N-(1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-4'-(trifluoromethyl)-[1,1'-biphenyl]-3-carboxamide (16d)



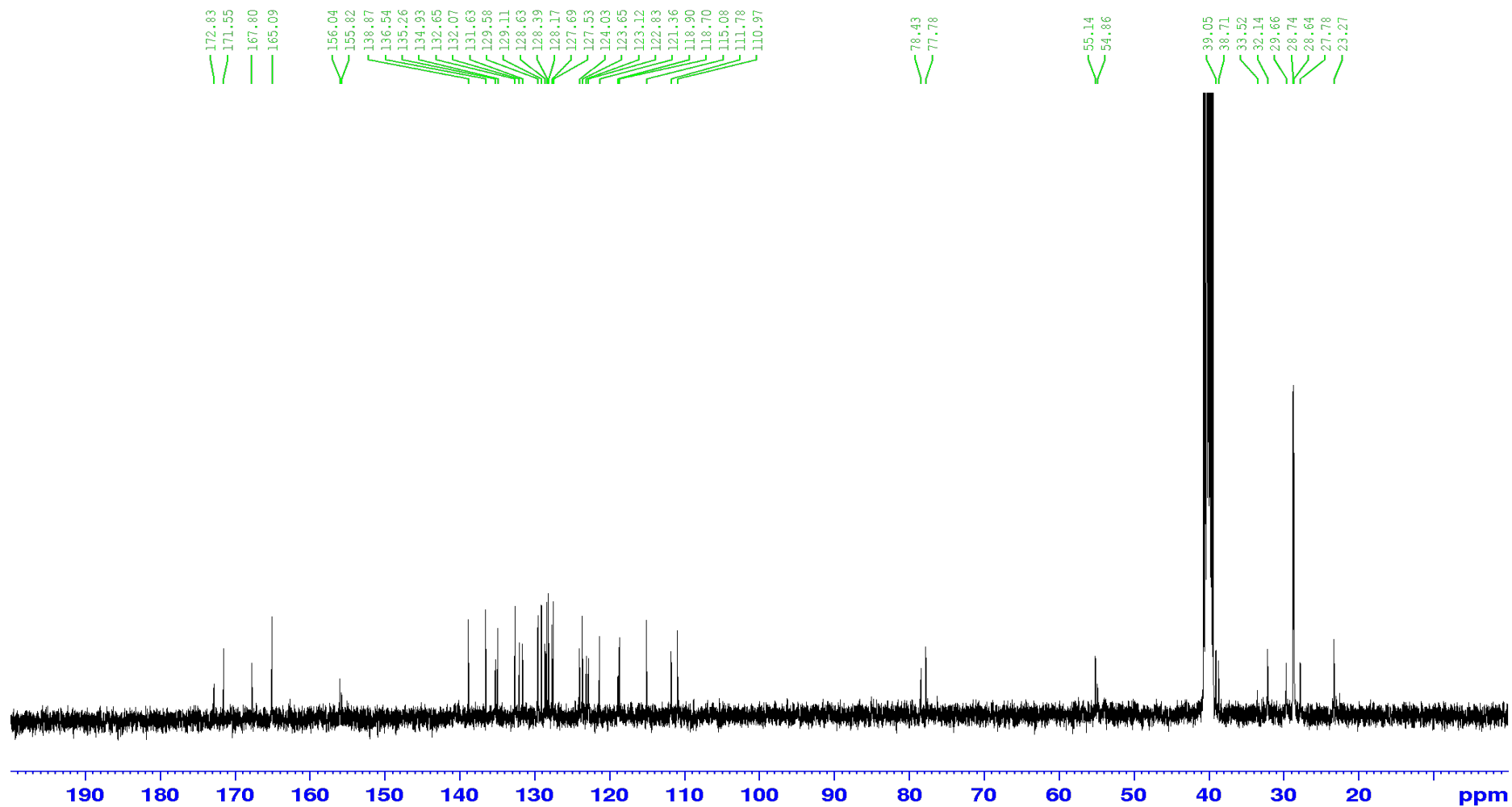
$^{13}\text{C}$  NMR of (S)-4-amino-N-(1-((2-aminoethyl)amino)-3-(1H-indol-3-yl)-1-oxopropan-2-yl)-4'-(trifluoromethyl)-[1,1'-biphenyl]-3-carboxamide (16d)



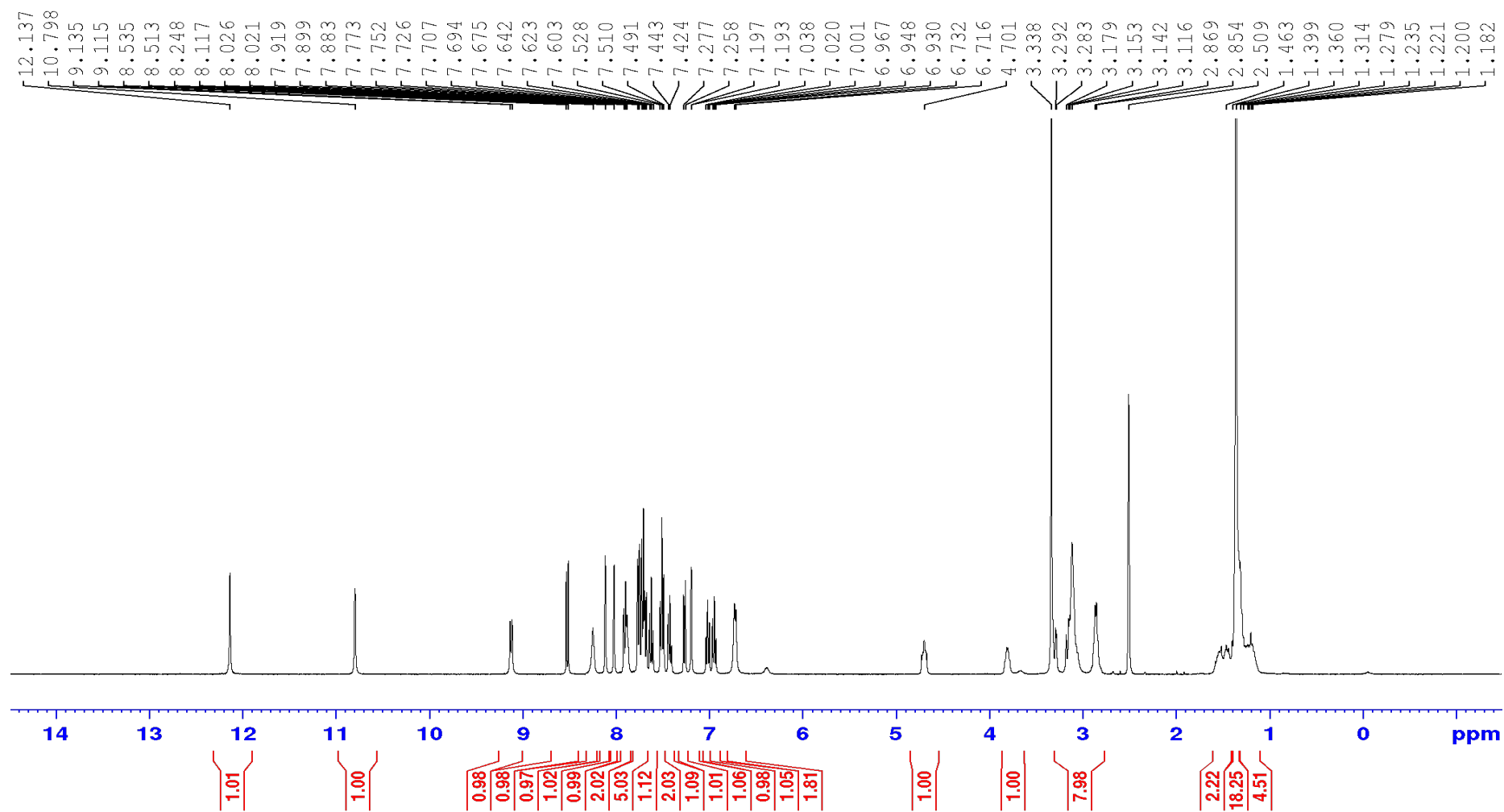
<sup>1</sup>H NMR of di-*tert*-butyl ((S)-6-((2-((S)-2-(2-(2-naphthamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)ethyl)amino)-6-oxohexane-1,5-diyl)dicarbamate (18a)



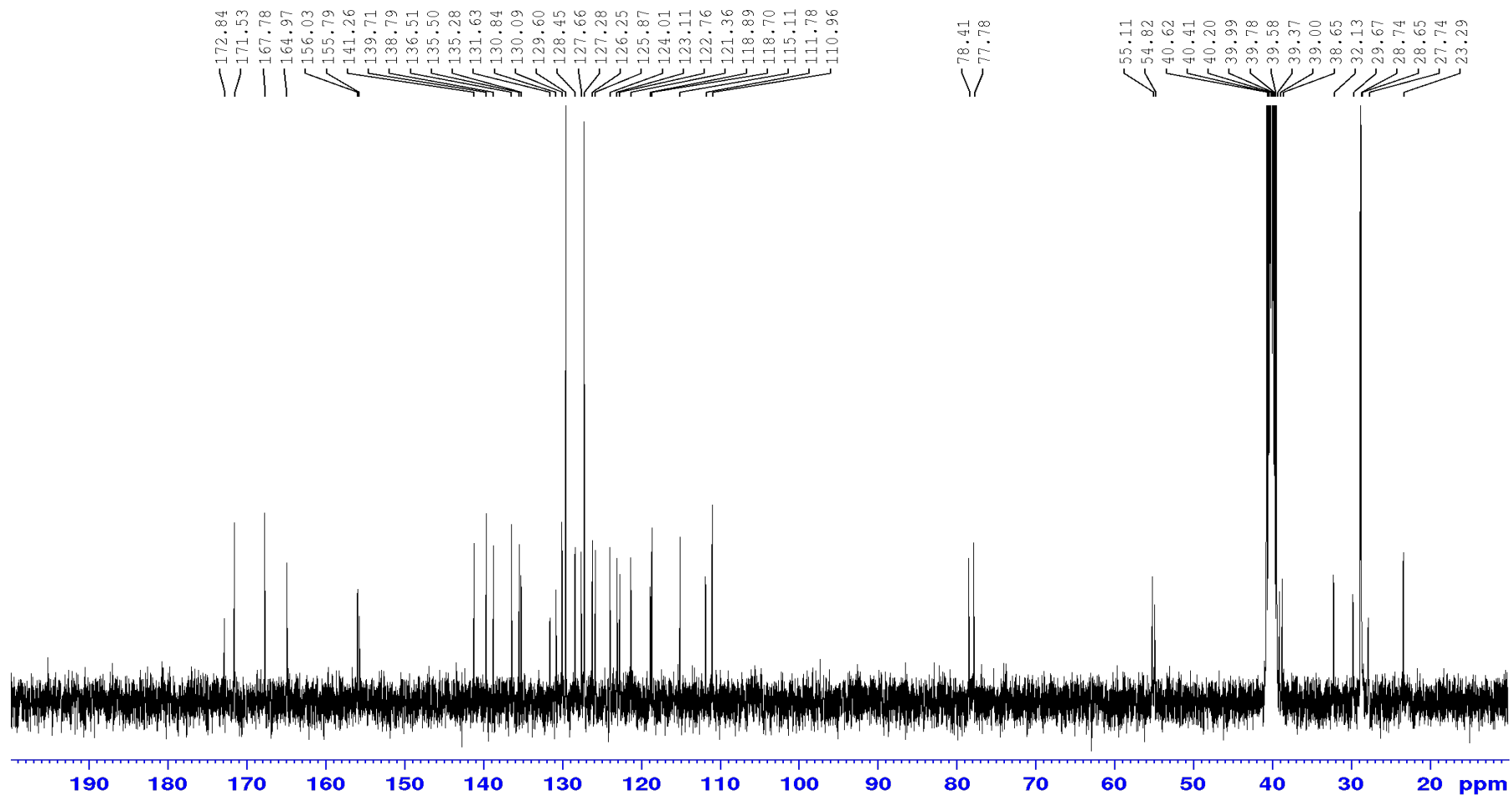
$^{13}\text{C}$  NMR of di-*tert*-butyl ((*S*)-6-((2-((*S*)-2-(2-(2-naphthamido)-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)amino)-6-oxohexane-1,5-diyl)dicarbamate (18a)



$^1\text{H}$  NMR of *di-tert*-butyl ((*S*)-6-((2-((*S*)-2-(2-([1,1'-biphenyl]-3-carboxamido)-5-bromobenzamido)-3-(1*H*-indol-3-yl)propanamido)ethyl)amino)-6-oxohexane-1,5-diyl)dicarbamate (**18b**)

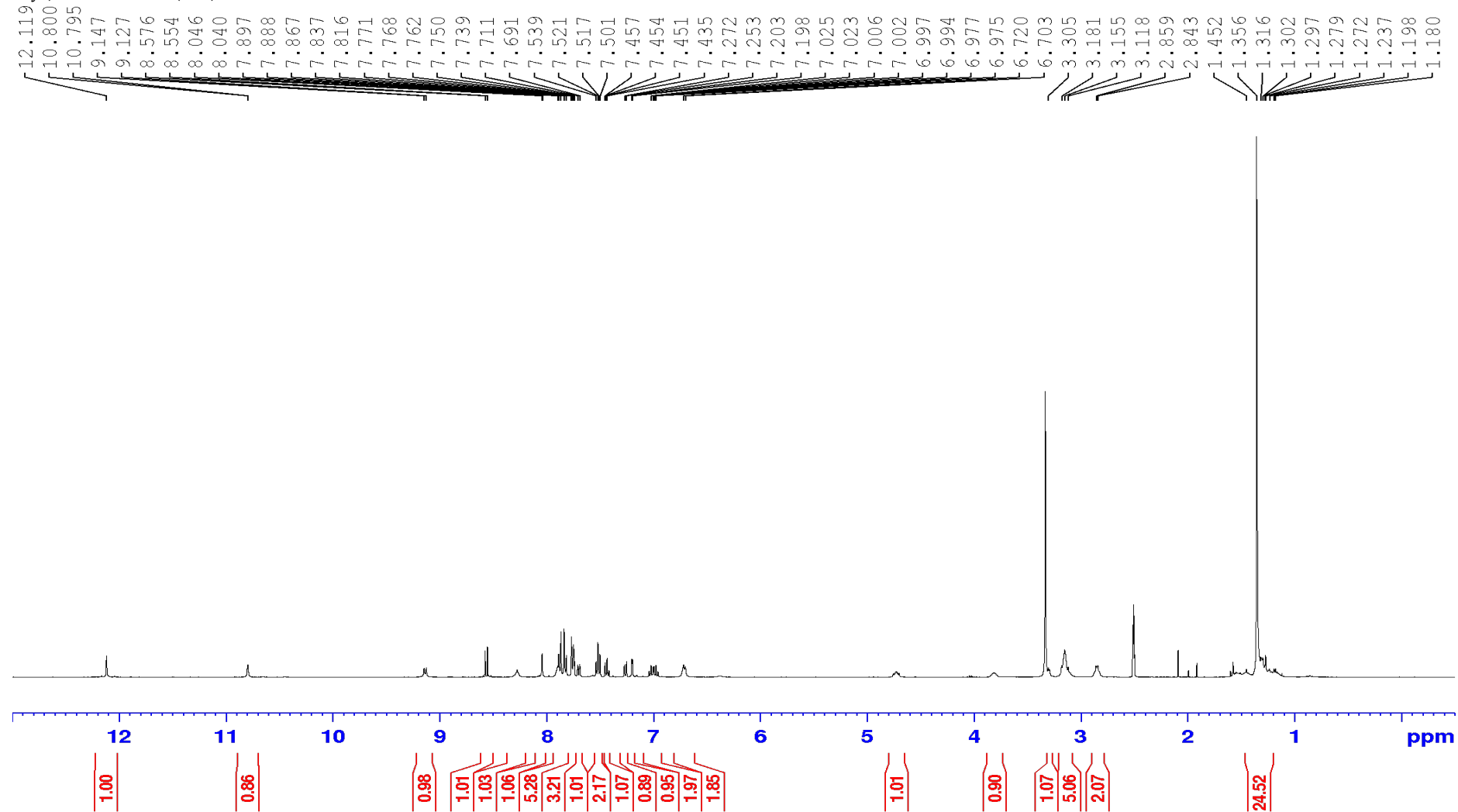


$^{13}\text{C}$  NMR of di-*tert*-butyl ((S)-6-((2-((S)-2-(2-([1,1'-biphenyl]-3-carboxamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)ethyl)amino)-6-oxohexane-1,5-diyl)dicarbamate (18b)

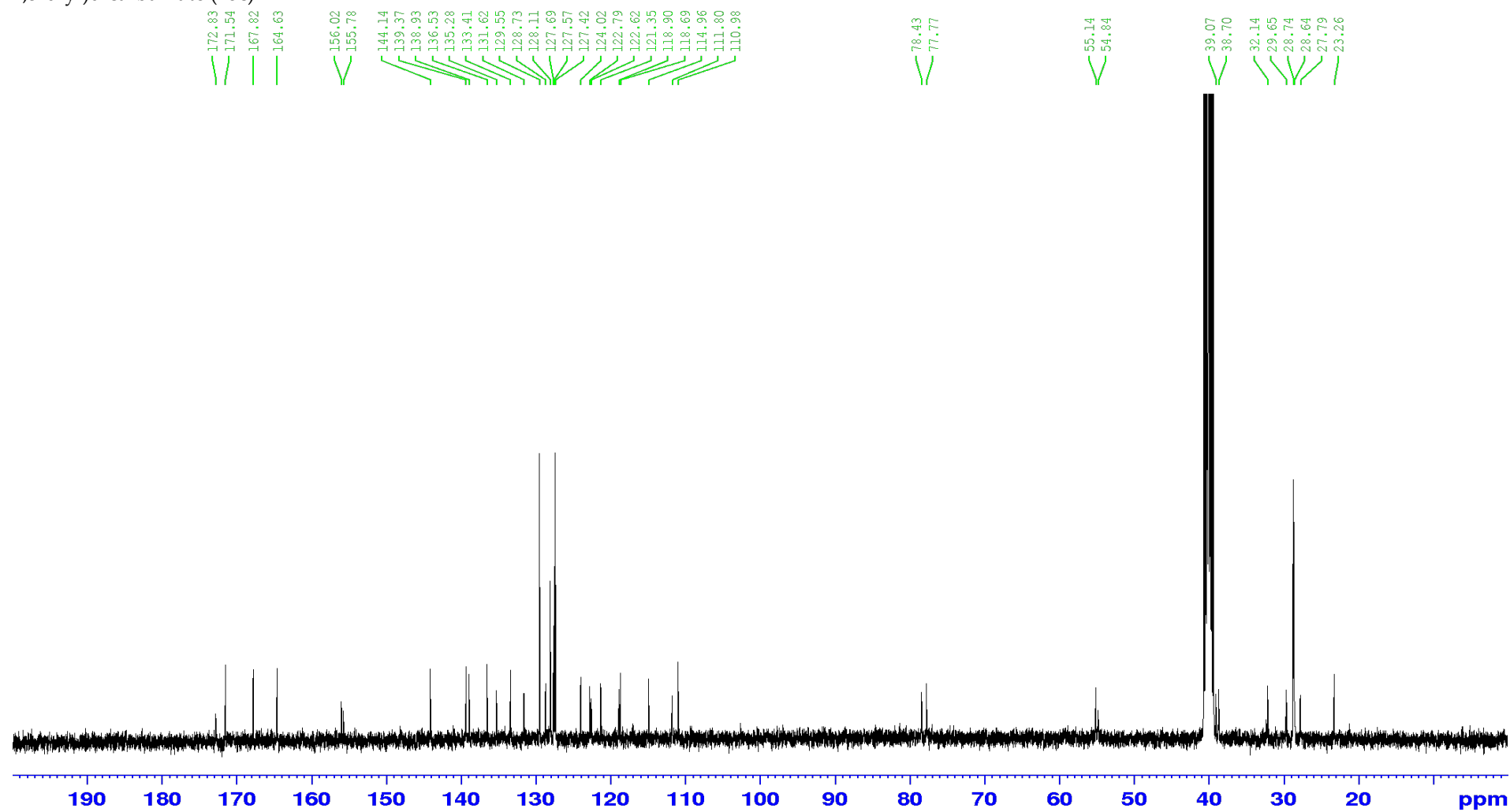




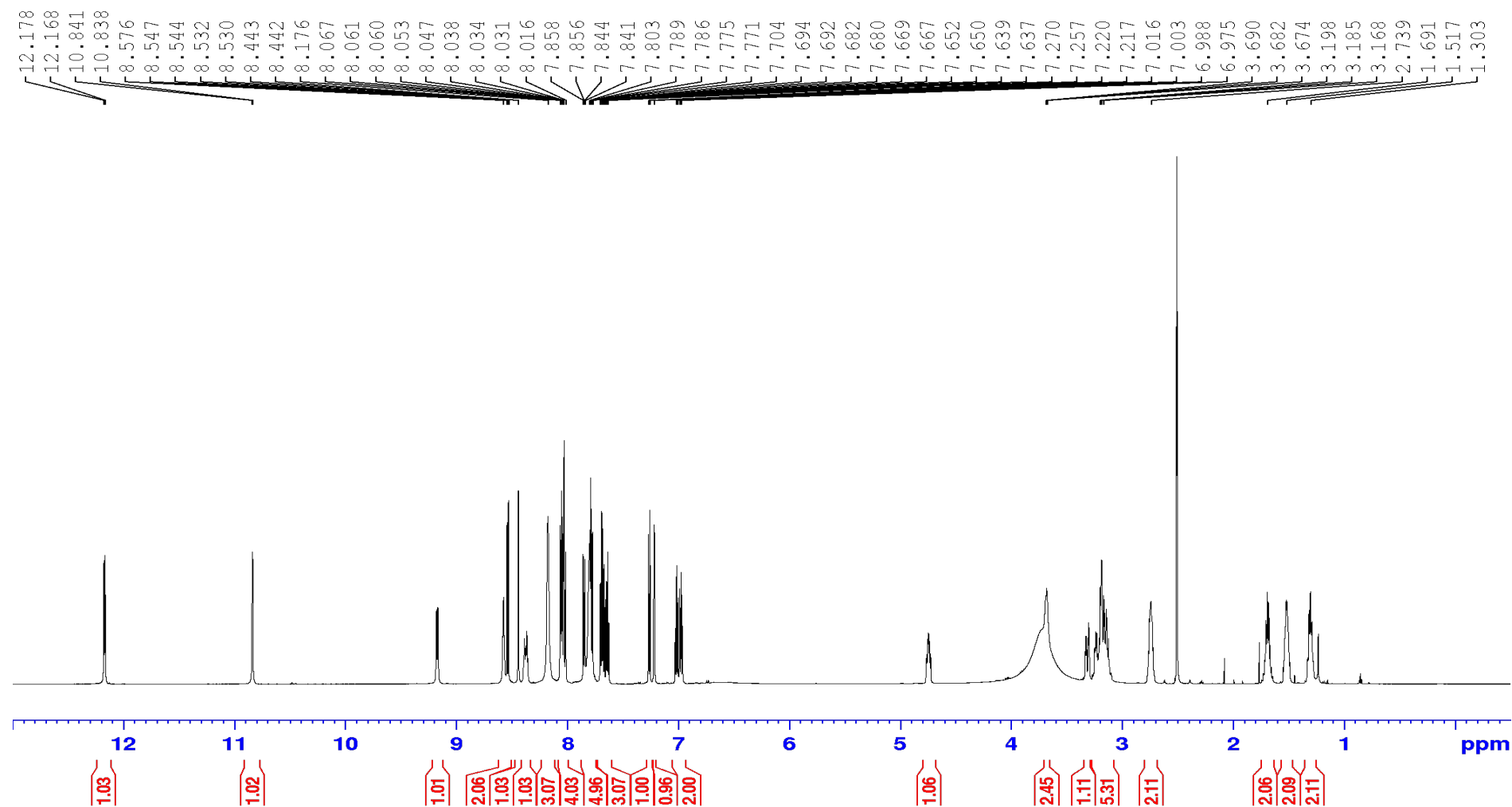
<sup>1</sup>H NMR of di-*tert*-butyl ((S)-6-((2-((S)-2-(2-([1,1'-biphenyl]-4-carboxamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)ethyl)amino)-6-oxohexane-1,5-diyl)dicarbamate (18c)



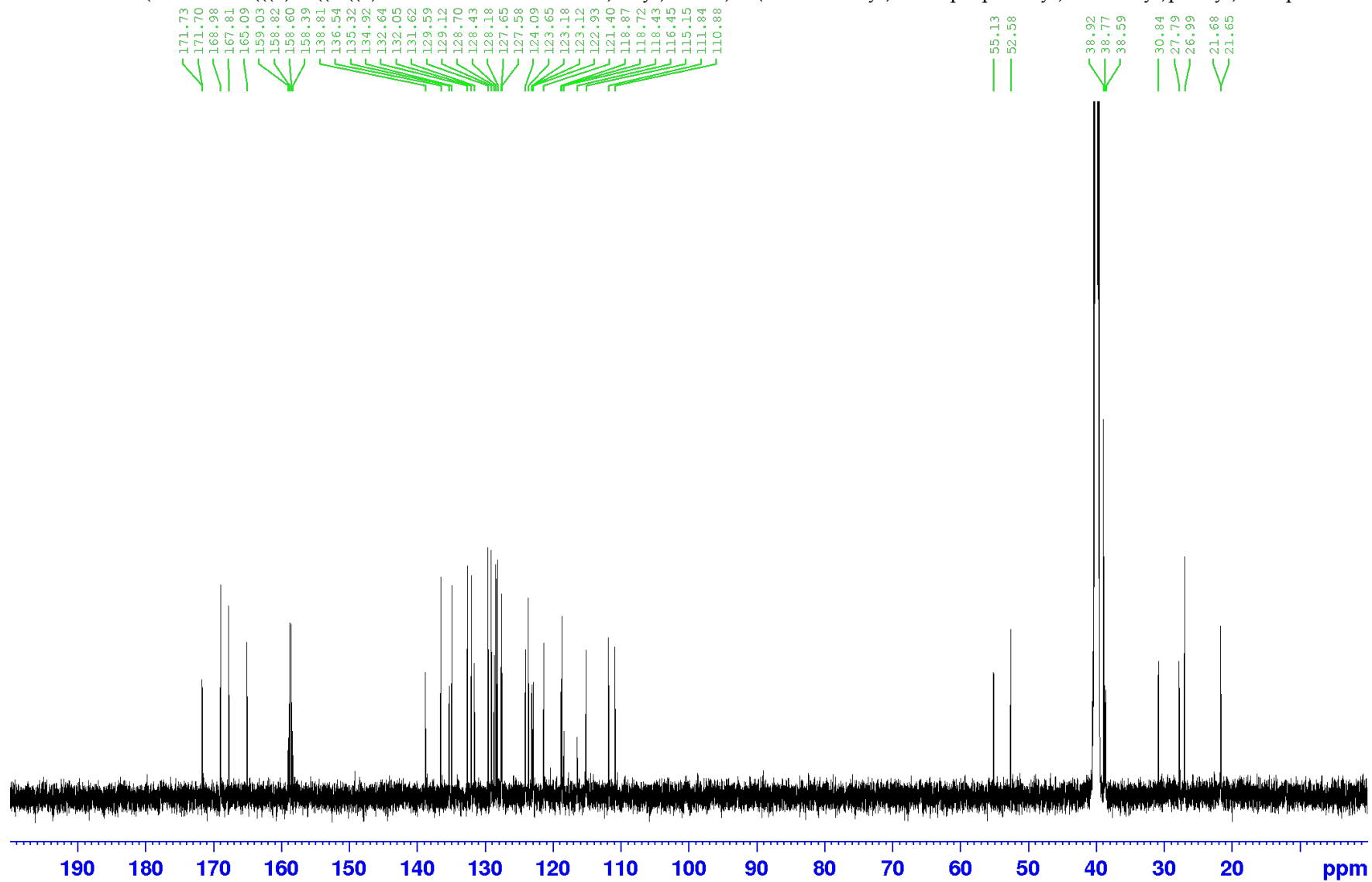
$^{13}\text{C}$  NMR of di-*tert*-butyl ((S)-6-((2-((S)-2-(2-([1,1'-biphenyl]-4-carboxamido)-5-bromobenzamido)-3-(1H-indol-3-yl)propanamido)ethyl)amino)-6-oxohexane-1,5-diyl)dicarbamate (18c)



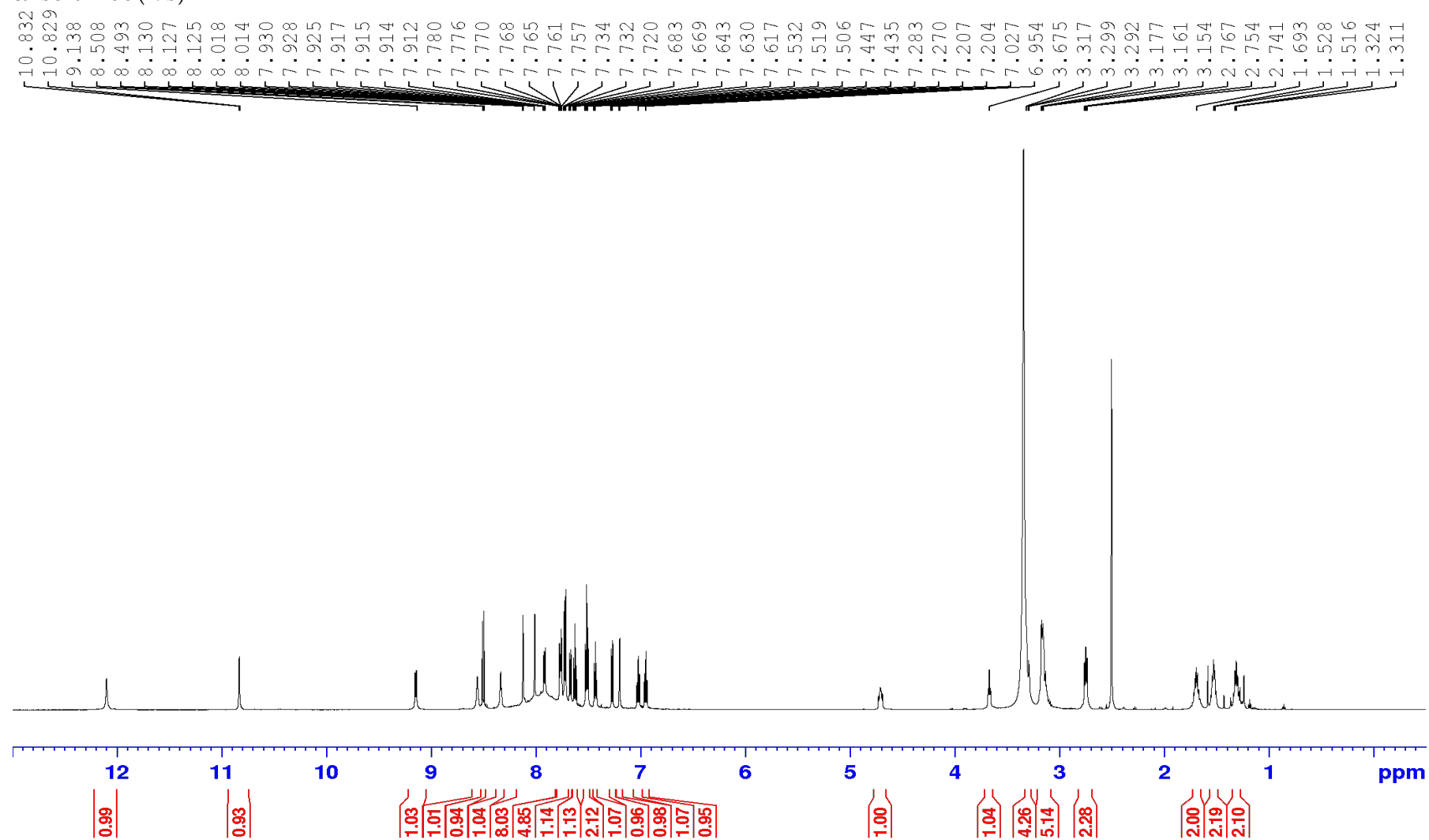
<sup>1</sup>H NMR of *N*-(4-bromo-2-(((*S*)-1-((2-((*S*)-2,6-diaminohexanamido)ethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)phenyl)-2-naphthamide (19a)



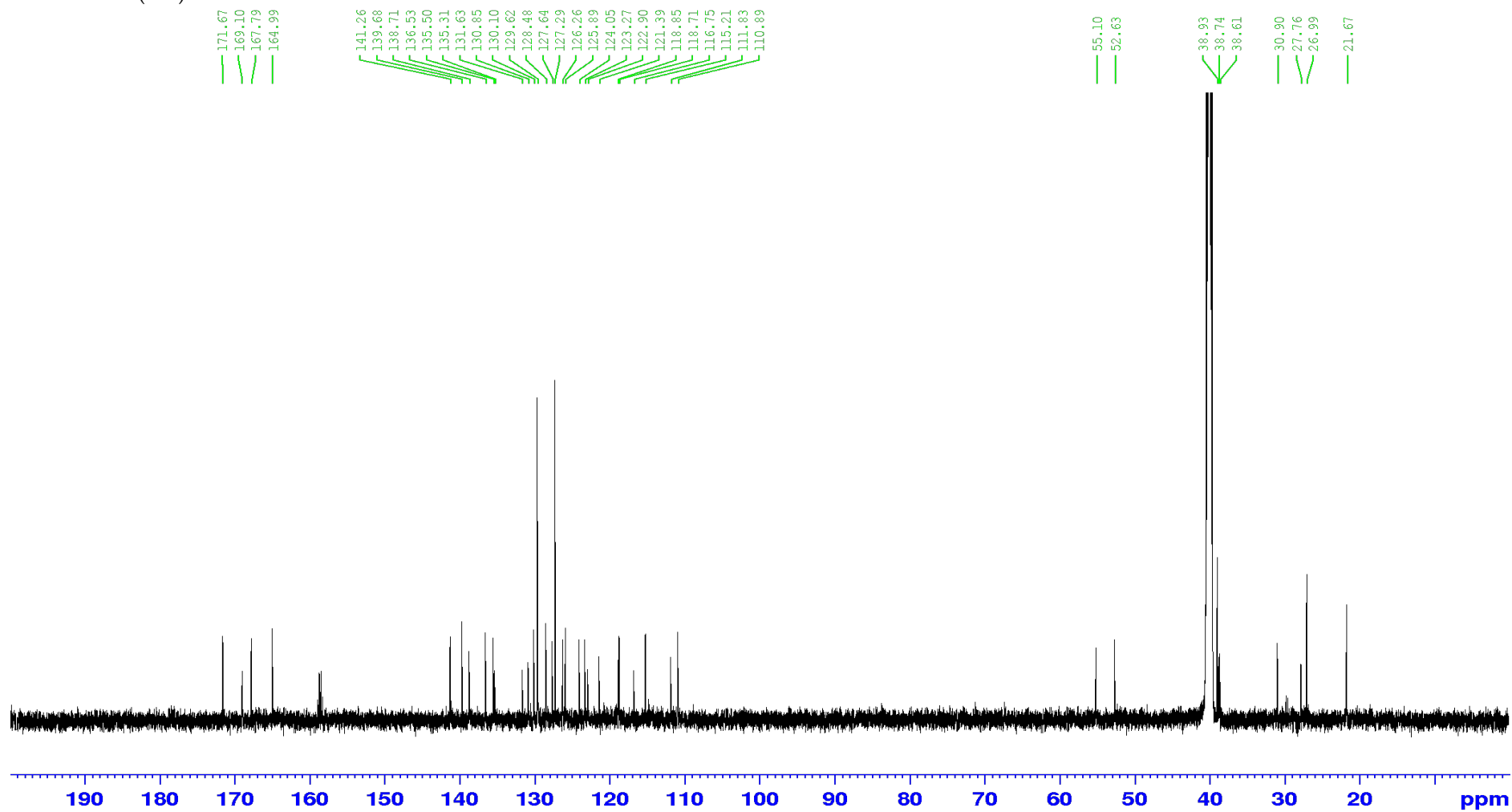
$^{13}\text{C}$  NMR of *N*-(4-bromo-2-(((*S*)-1-((2-((*S*)-2,6-diaminohexanamido)ethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)phenyl)-2-naphthamide (19a)



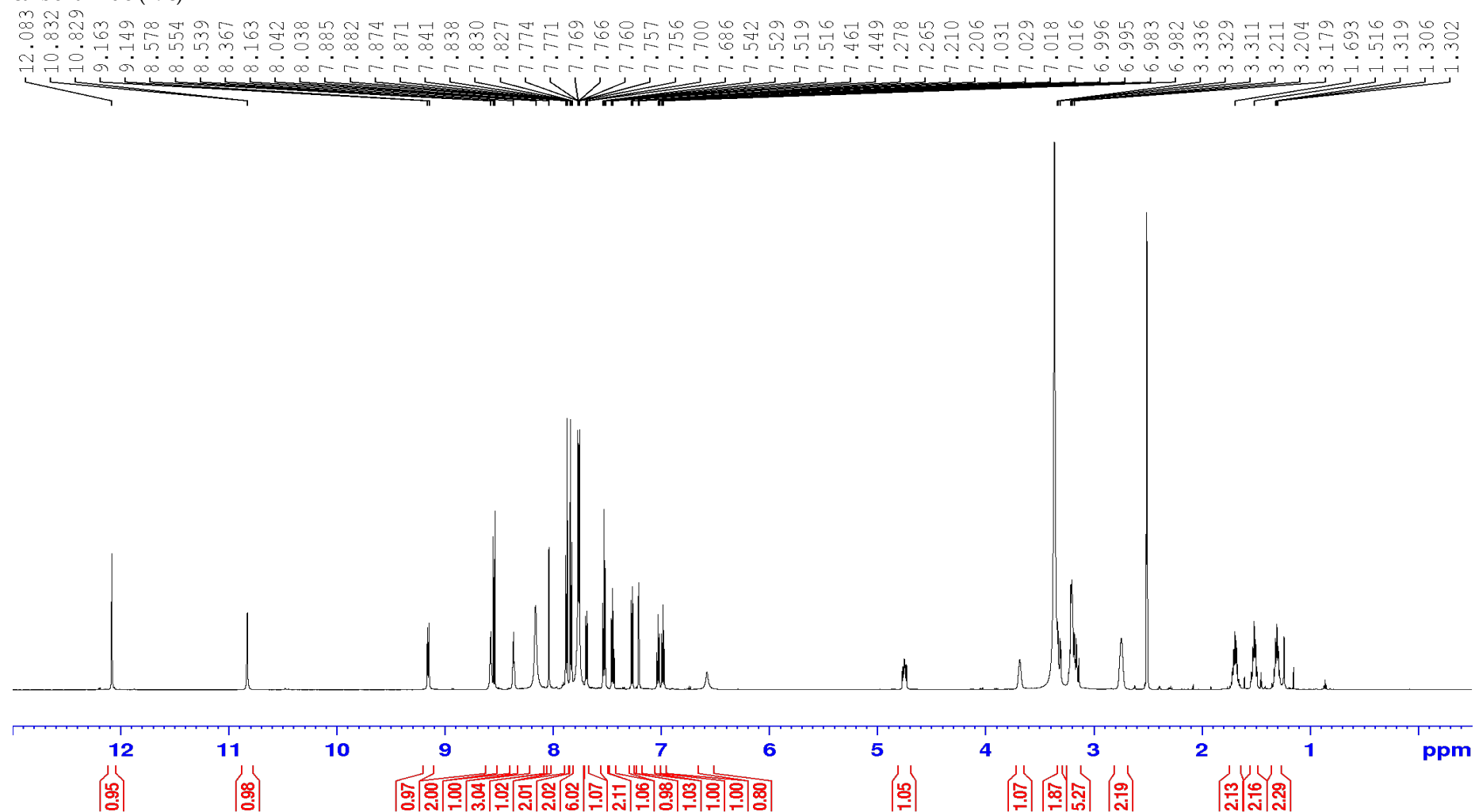
<sup>1</sup>HNMR of N-(4-bromo-2-(((S)-1-((2-((S)-2,6-diaminohexanamido)ethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)phenyl)-[1,1'-biphenyl]-3-carboxamide (19b)



$^{13}\text{C}$  NMR of *N*-(4-bromo-2-(((*S*)-1-((2-((*S*)-2,6-diaminohexanamido)ethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)phenyl)-[1,1'-biphenyl]-3-carboxamide (19b)



<sup>1</sup>H NMR of N-(4-bromo-2-(((S)-1-((2-((S)-2,6-diaminohexanamido)ethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)phenyl)-[1,1'-biphenyl]-4-carboxamide (19c)



$^{13}\text{C}$  NMR of *N*-(4-bromo-2-(((*S*)-1-((2-((*S*)-2,6-diaminohexanamido)ethyl)amino)-3-(1*H*-indol-3-yl)-1-oxopropan-2-yl)carbamoyl)phenyl)-[1,1'-biphenyl]-4-carboxamide (19c)

