

Imidazo[1,2-c]quinazolines as a novel and potent scaffold of α -glucosidase inhibitors: design, synthesis, biological evaluations, and *in silico* studies

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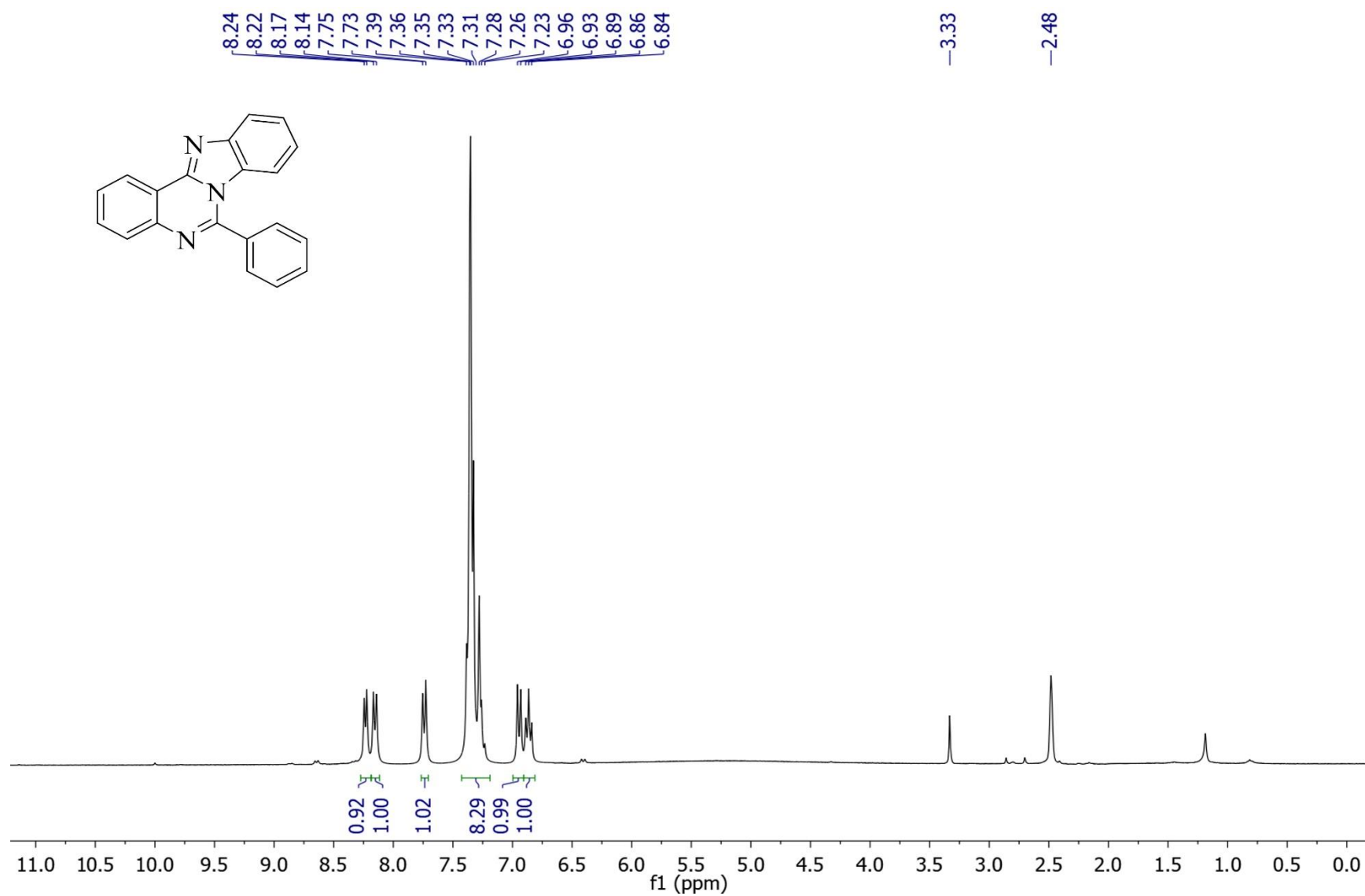
² Department of Organic Chemistry, Faculty of Pharmaceutical Chemistry, Tehran Medical Sciences, Islamic Azad University, Tehran, Iran.

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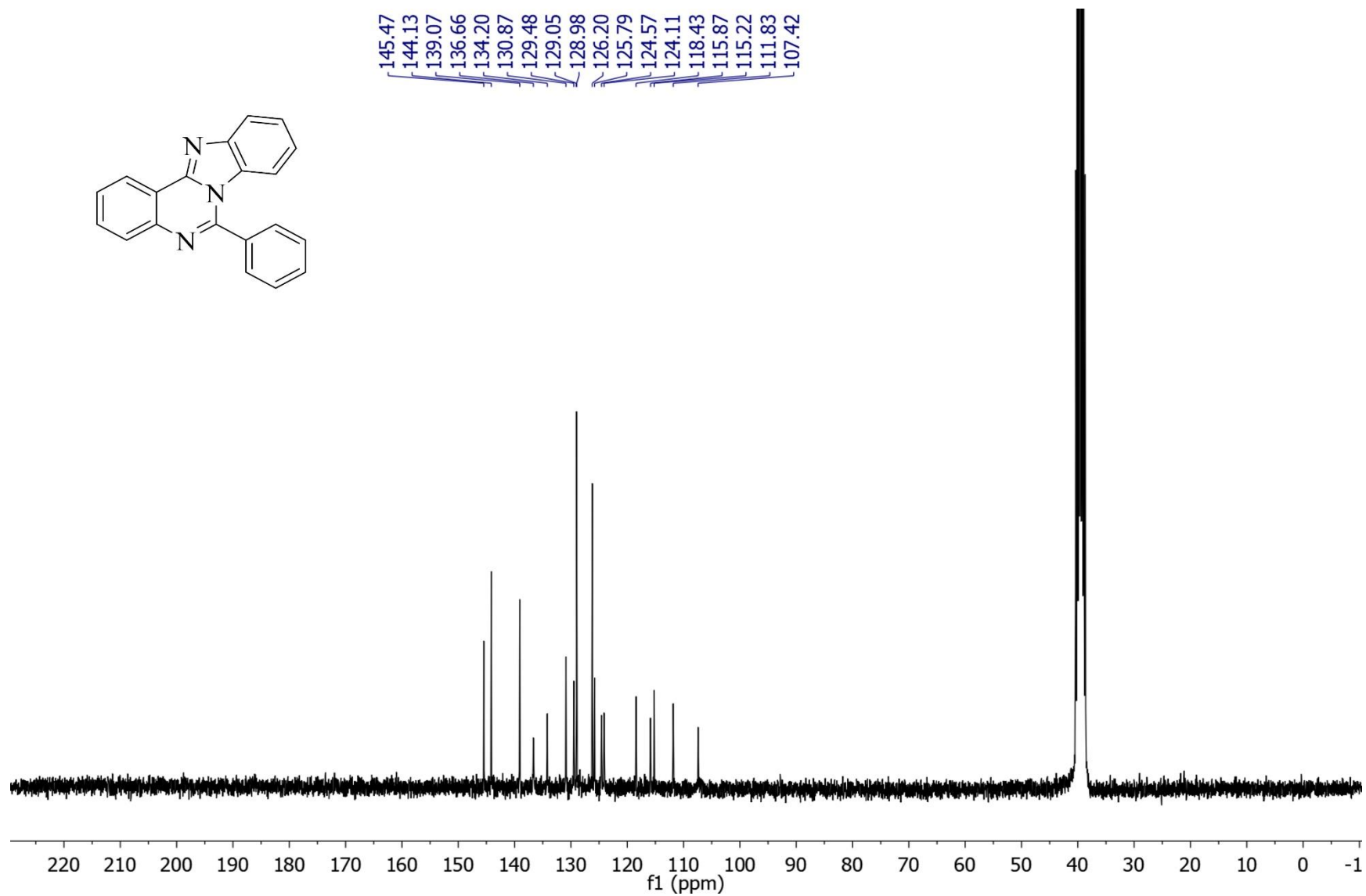
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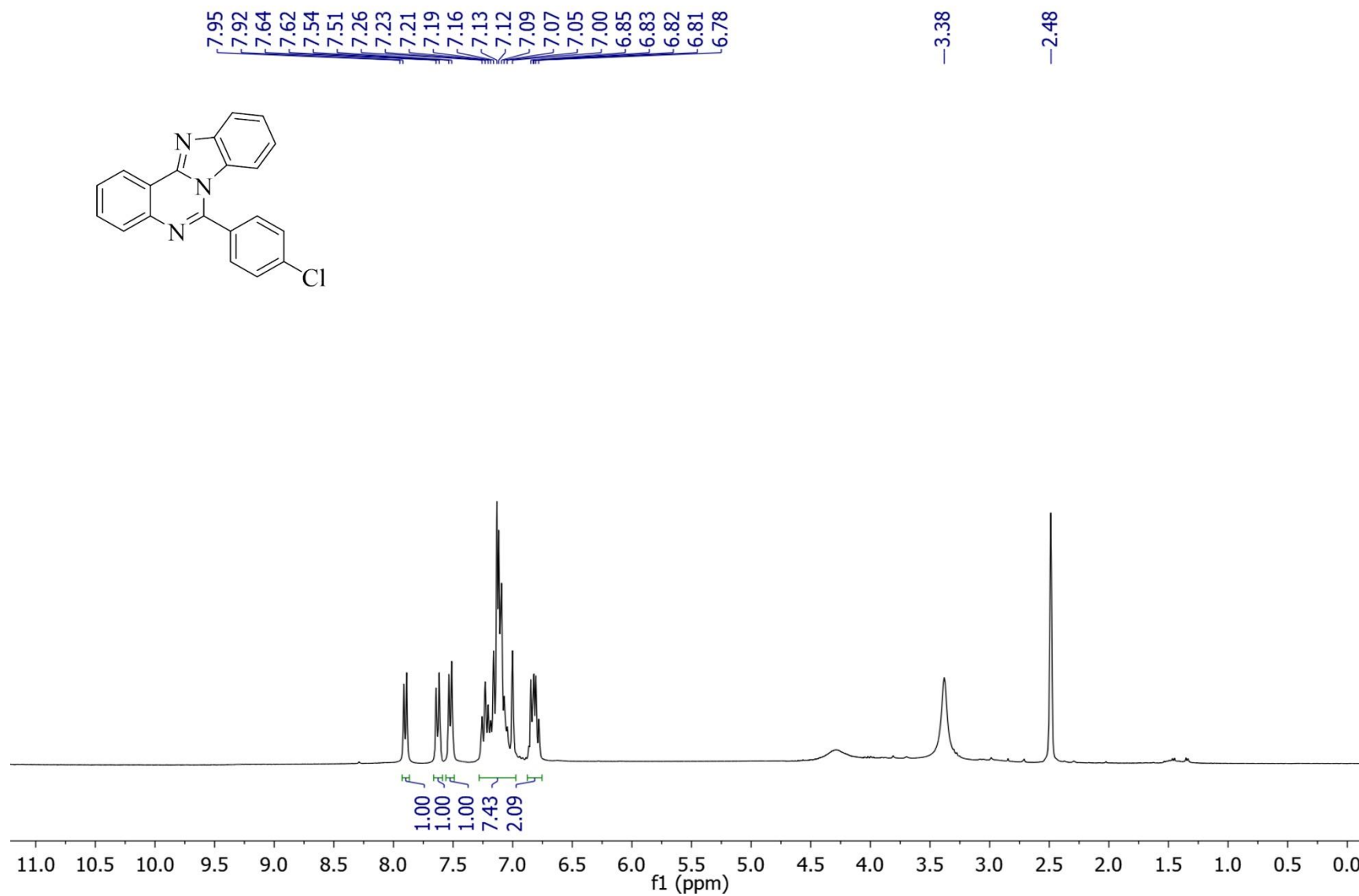
¹H NMR spectrum of 6-phenylbenzo[4,5]imidazo[1,2-c]quinazoline **6a**



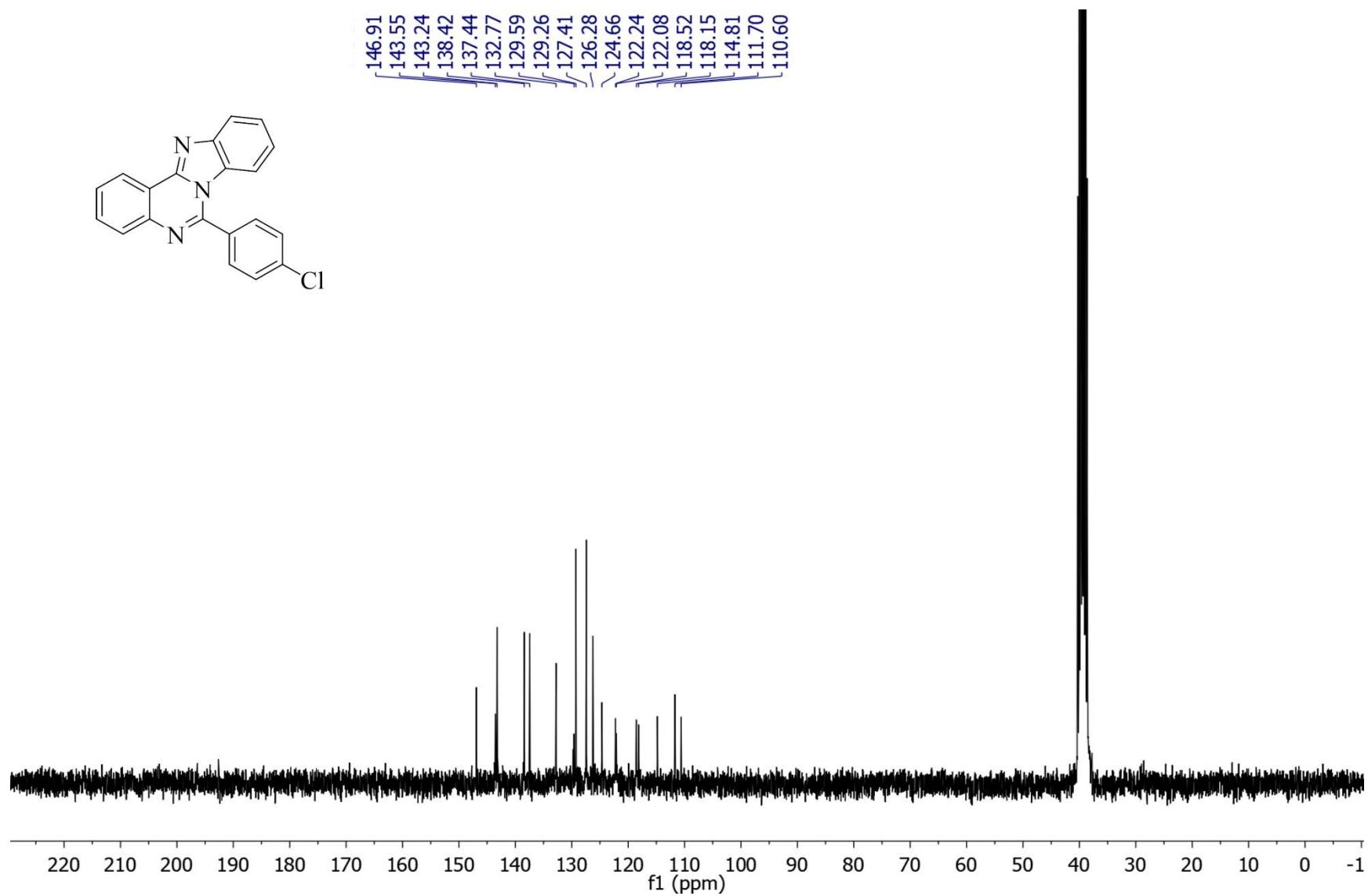
¹³C NMR spectrum of 6-phenylbenzo[4,5]imidazo[1,2-*c*]quinazoline **6a**



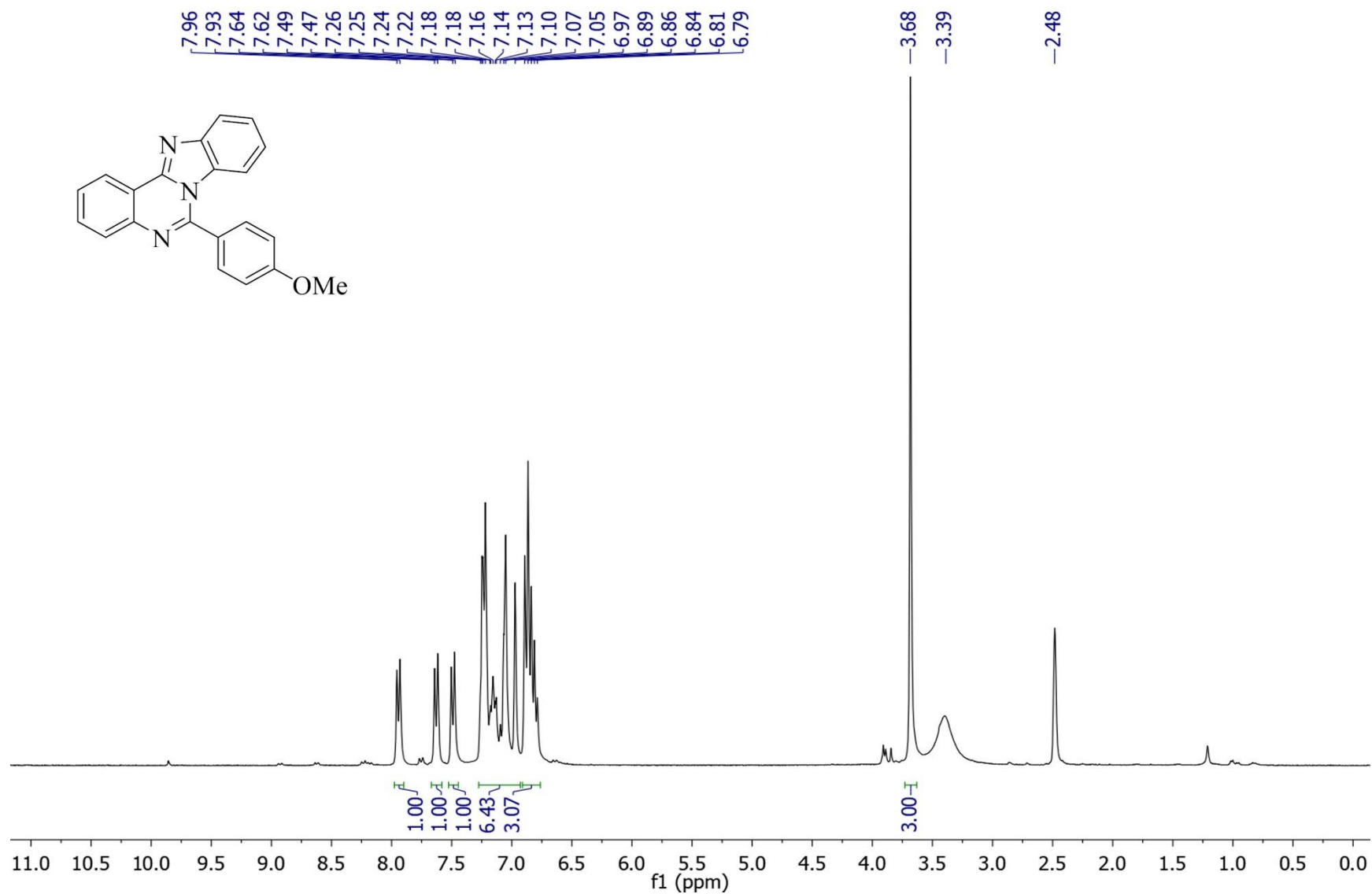
¹H NMR spectrum of 6-(4-chlorophenyl)benzo[4,5]imidazo[1,2-c]quinazoline **6b**



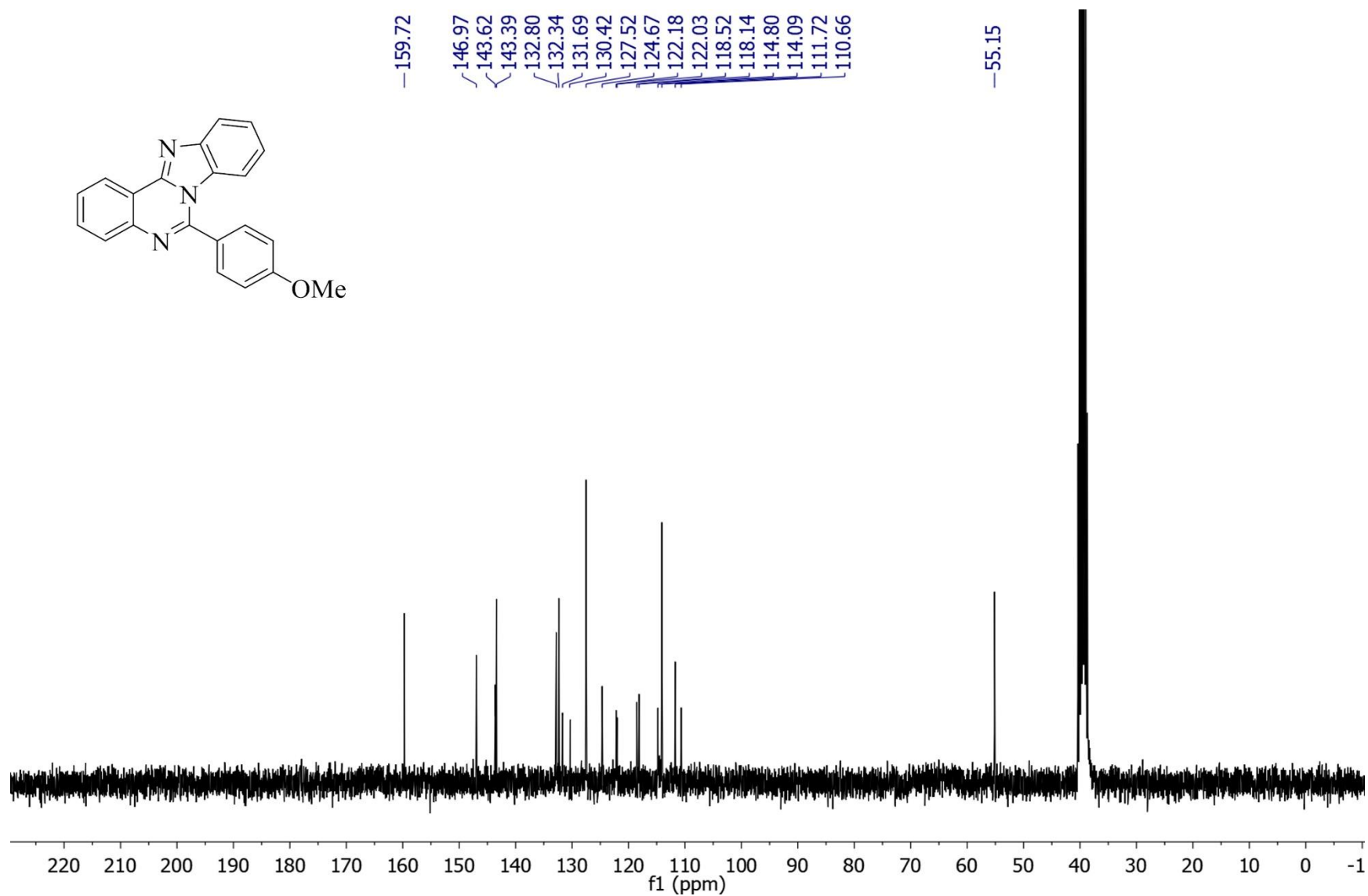
¹³C NMR spectrum of 6-(4-chlorophenyl)benzo[4,5]imidazo[1,2-*c*]quinazoline **6b**



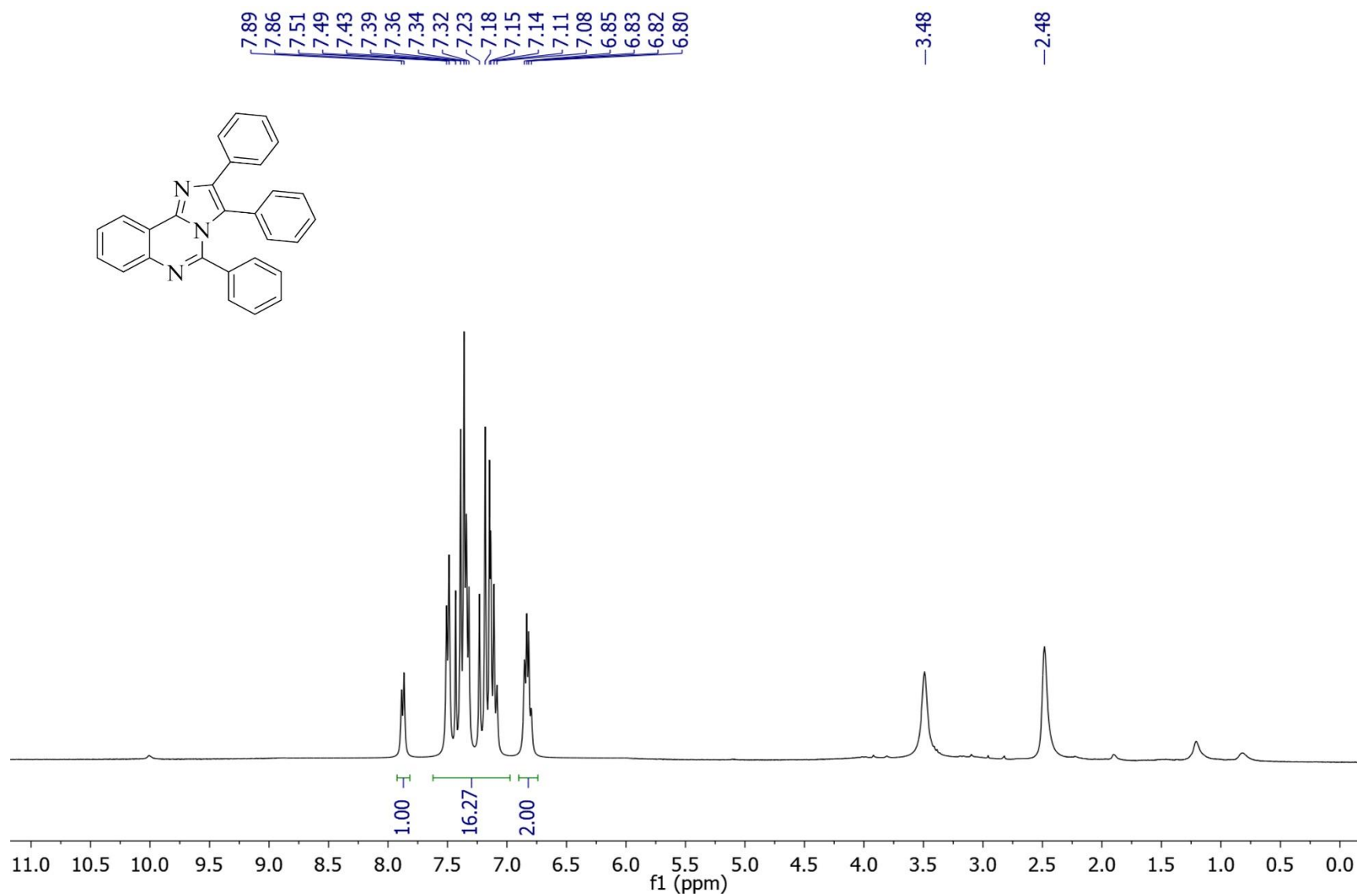
¹H NMR spectrum of 6-(4-methoxyphenyl)benzo[4,5]imidazo[1,2-c]quinazoline **6c**



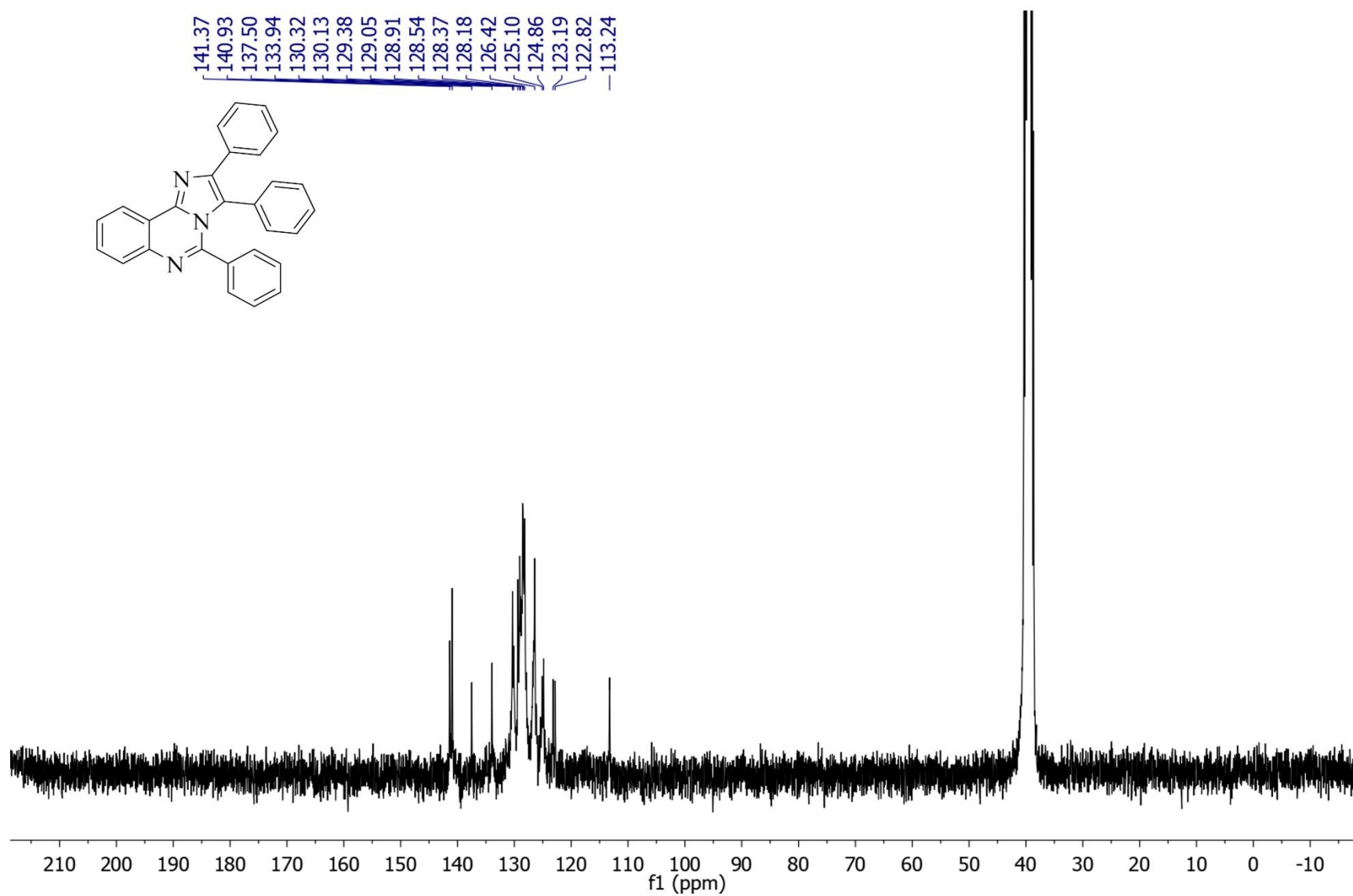
^{13}C NMR spectrum of 6-(4-methoxyphenyl)benzo[4,5]imidazo[1,2-*c*]quinazoline **6c**



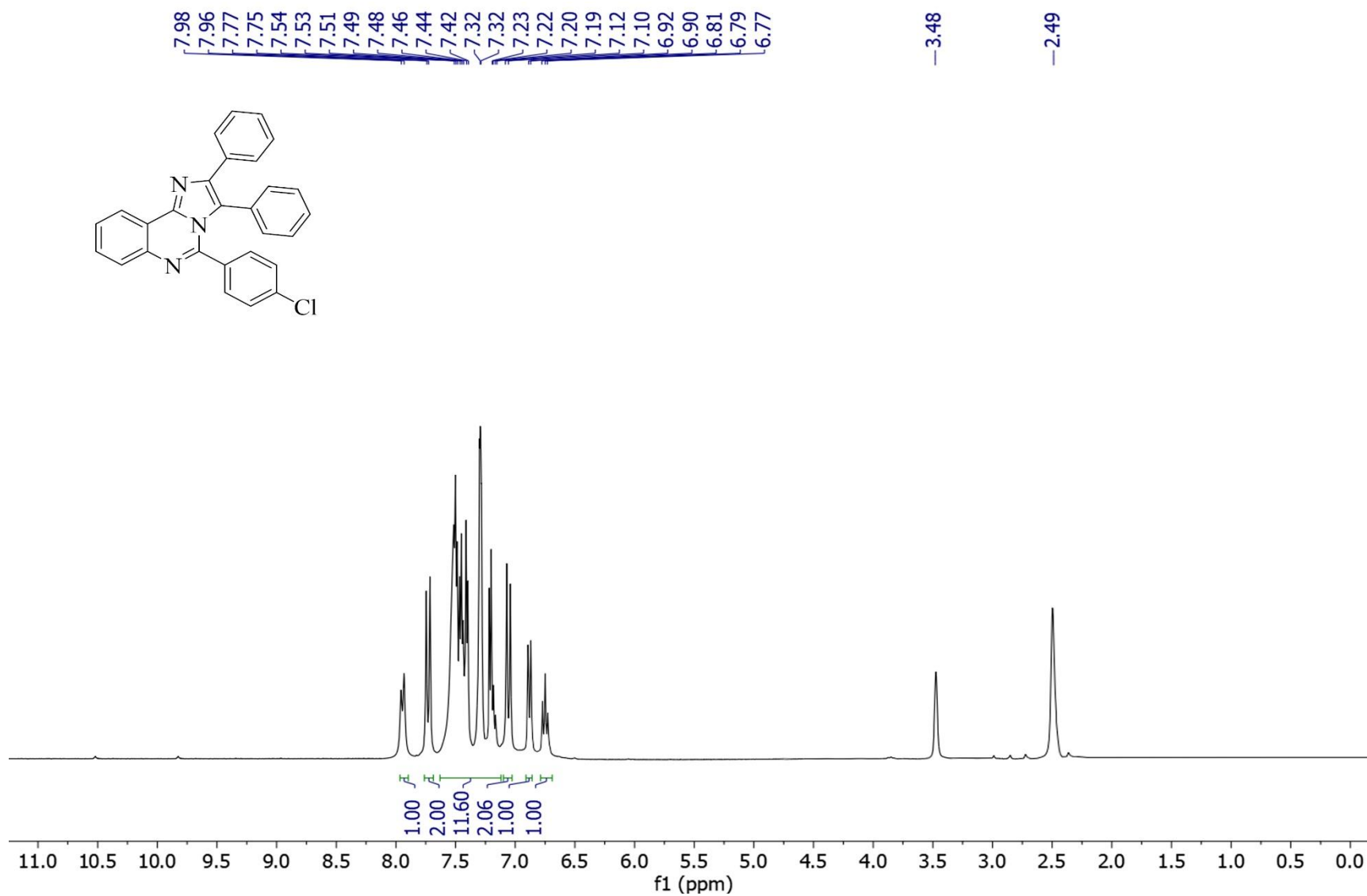
¹H NMR spectrum of 2,3,5-triphenylimidazo[1,2-c]quinazoline **11a**



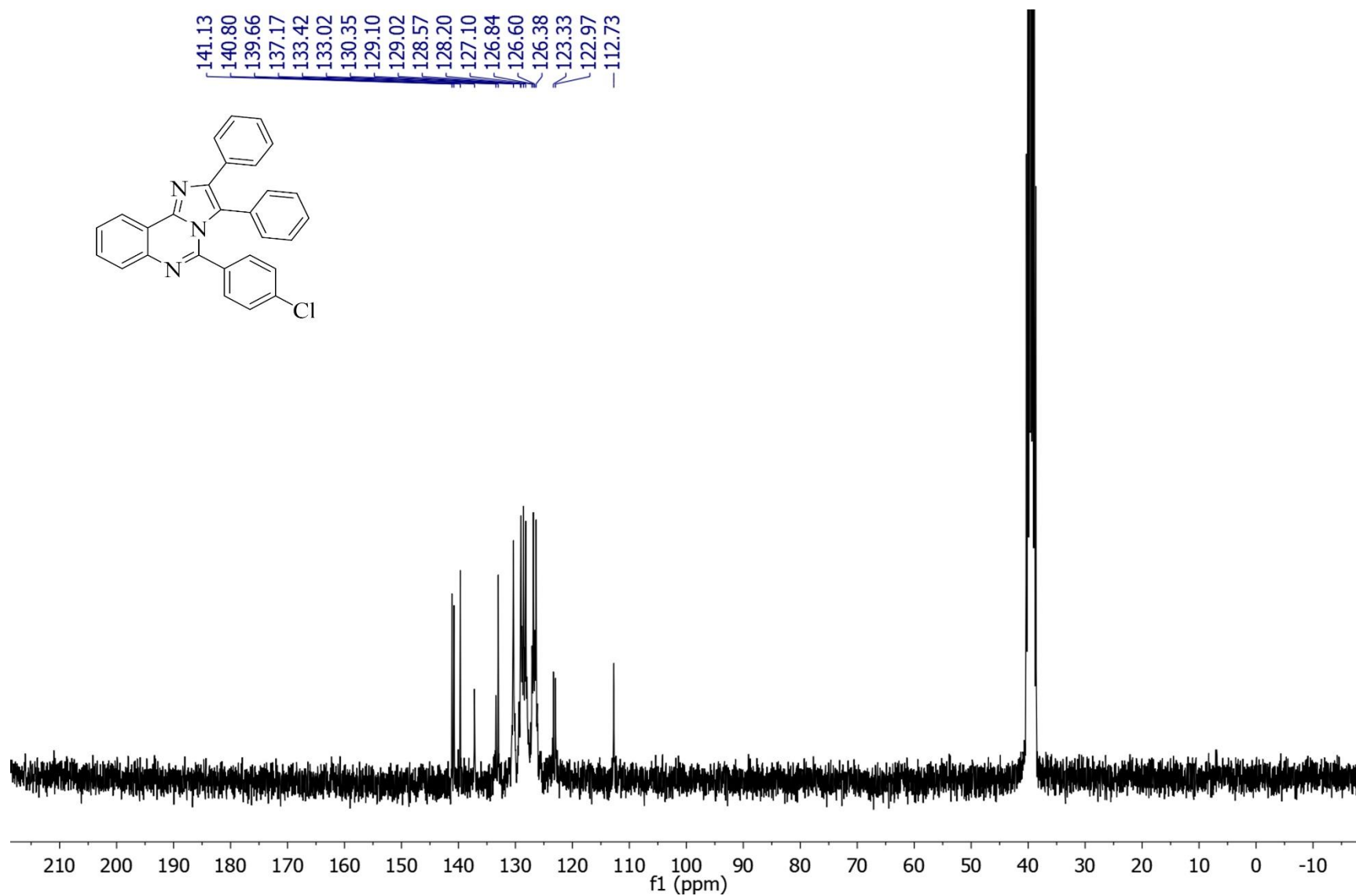
^{13}C NMR spectrum of 2,3,5-triphenylimidazo[1,2-*c*]quinazoline **11a**



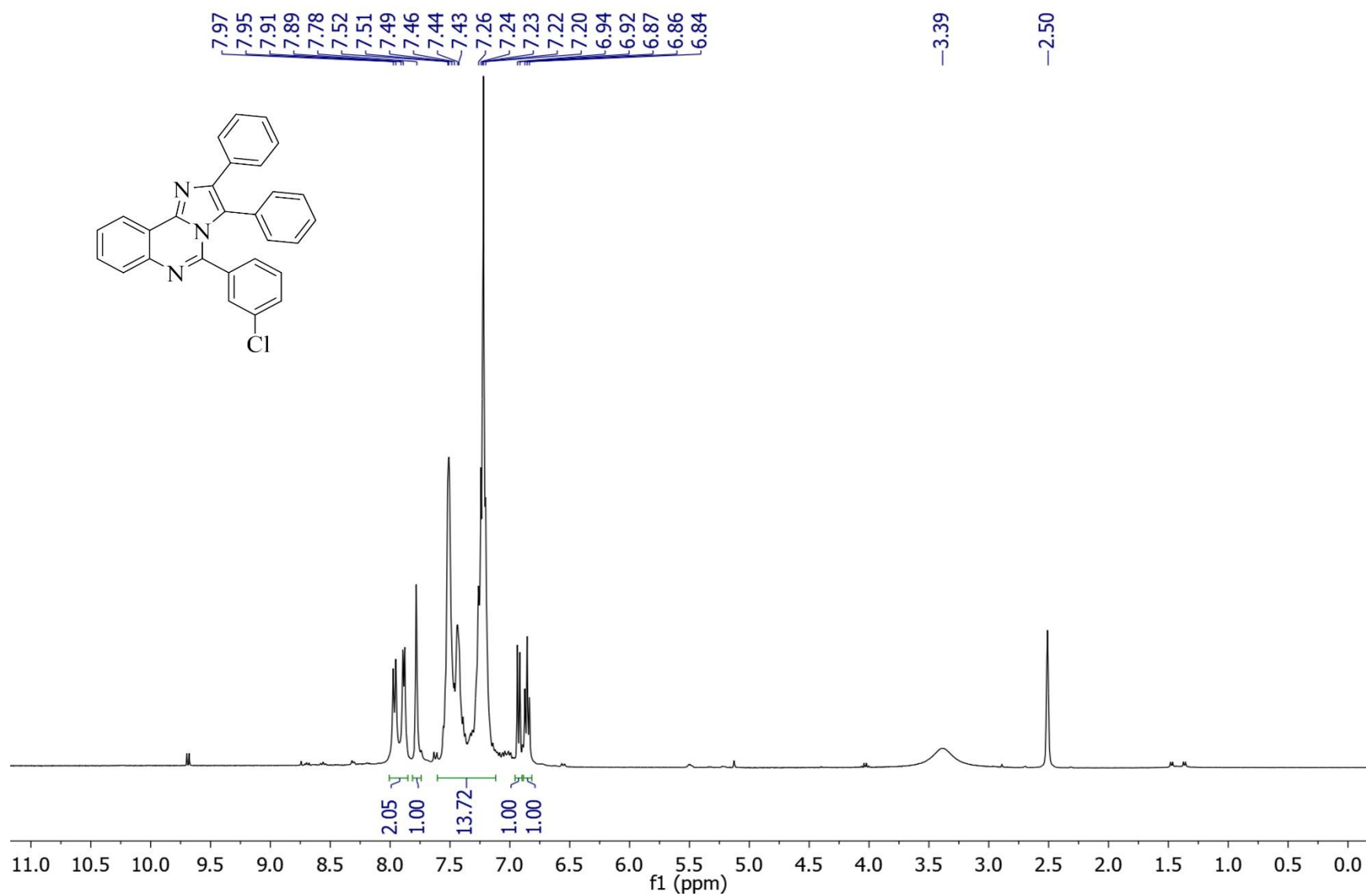
^1H NMR spectrum of 5-(4-chlorophenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11b**



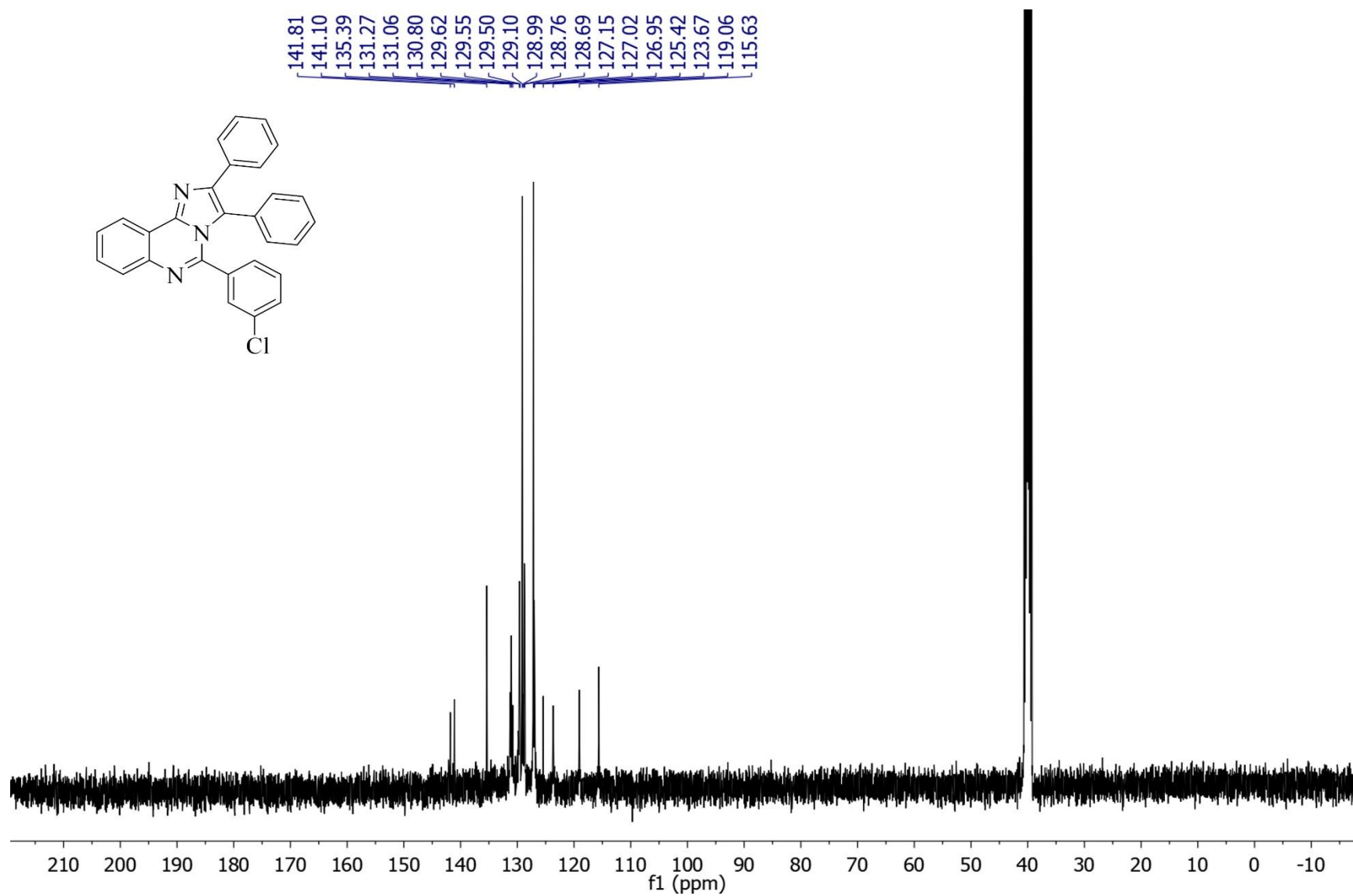
^{13}C NMR spectrum of 5-(4-chlorophenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11b**



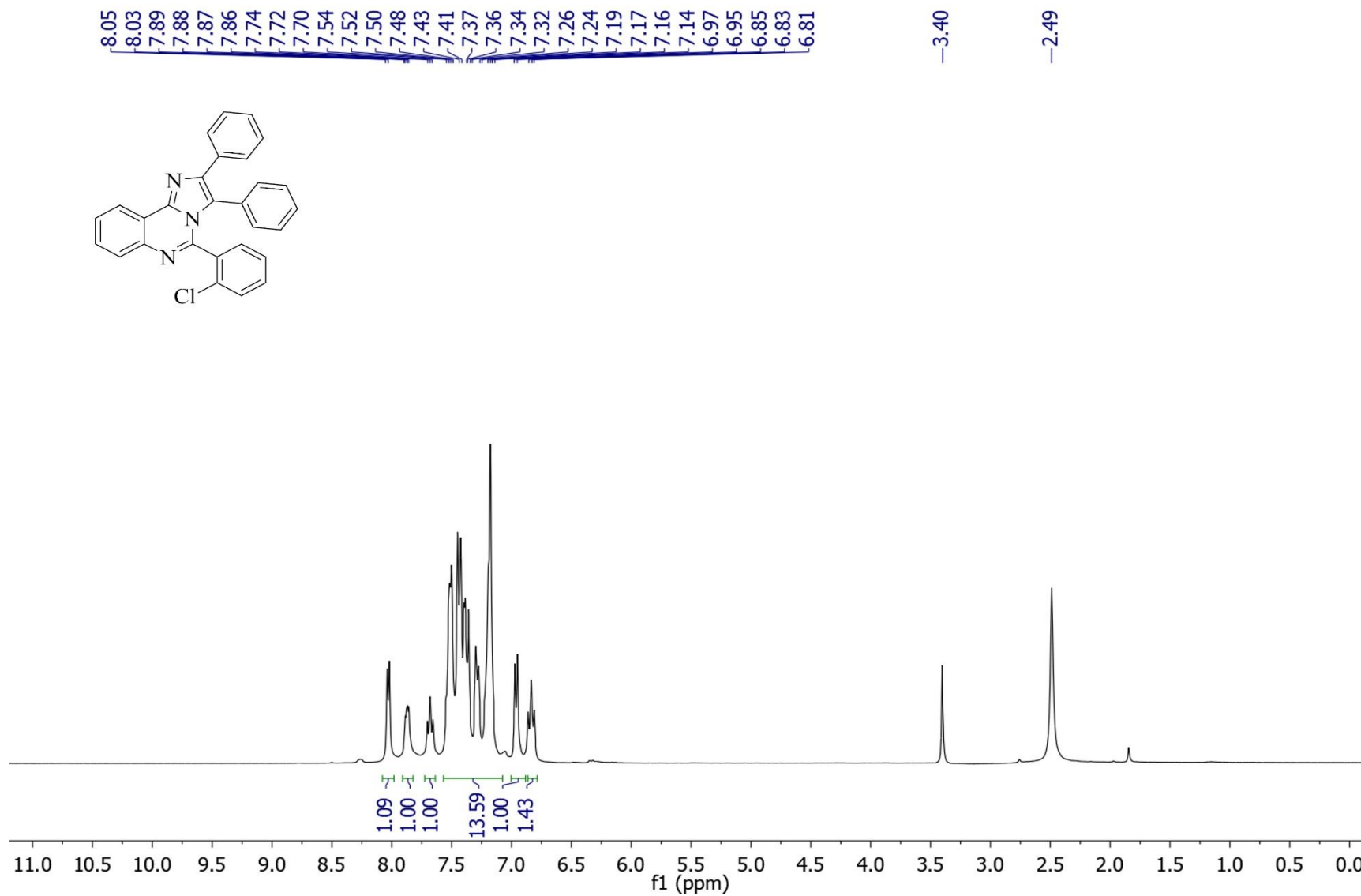
¹H NMR spectrum of 5-(3-chlorophenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11c**



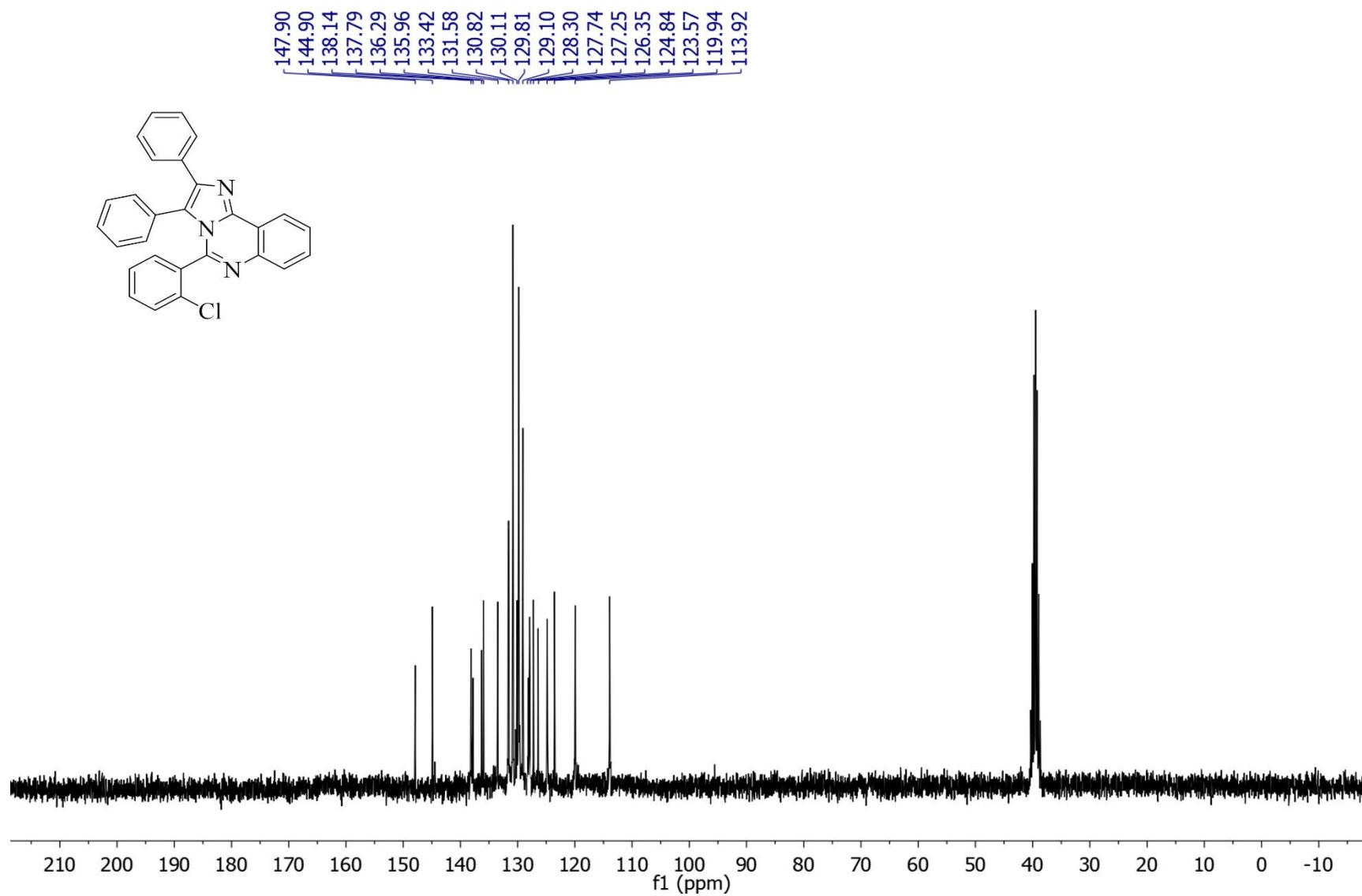
¹³C NMR spectrum of 5-(3-chlorophenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11c**



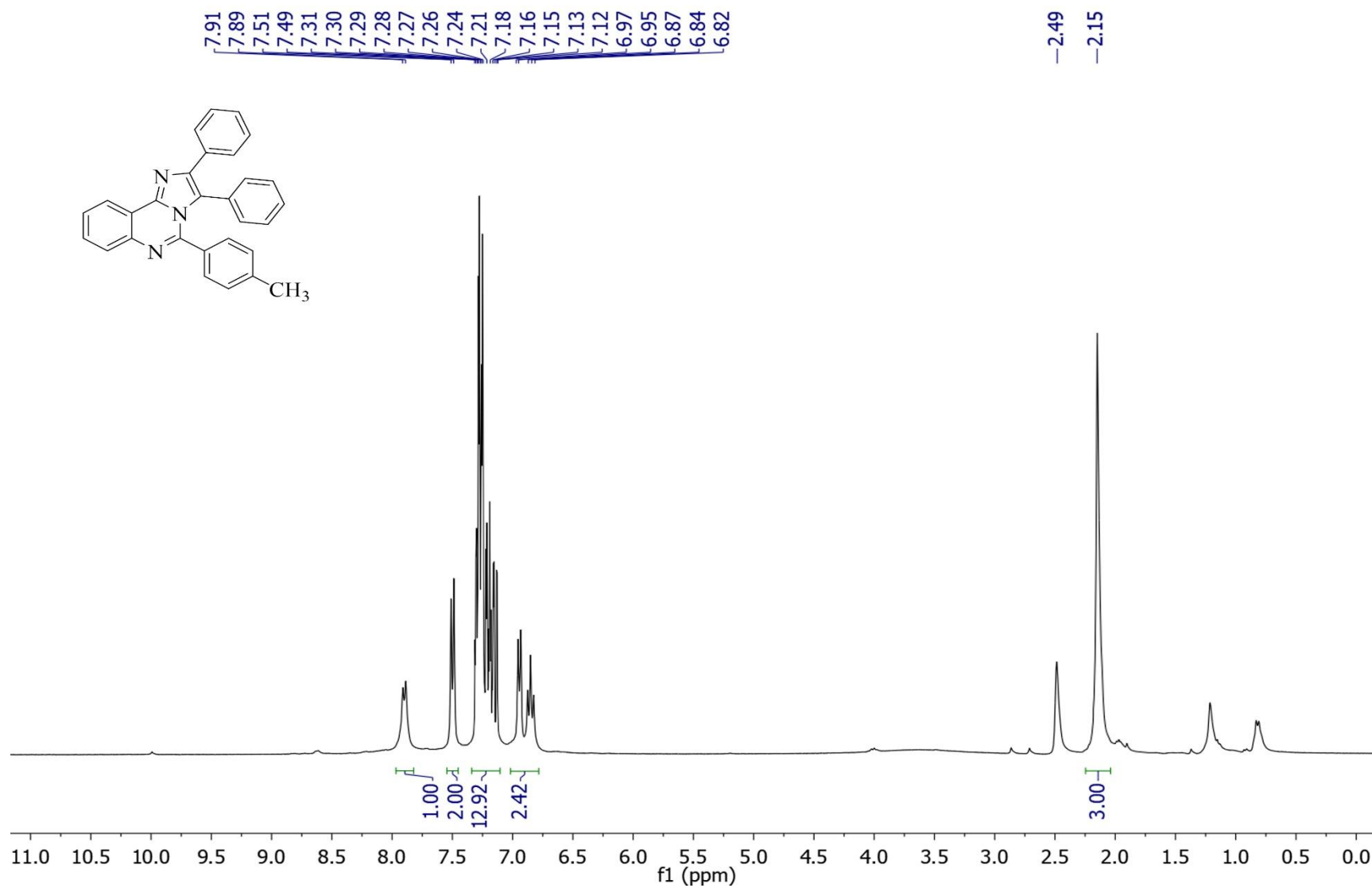
¹H NMR spectrum of 5-(2-chlorophenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11d**



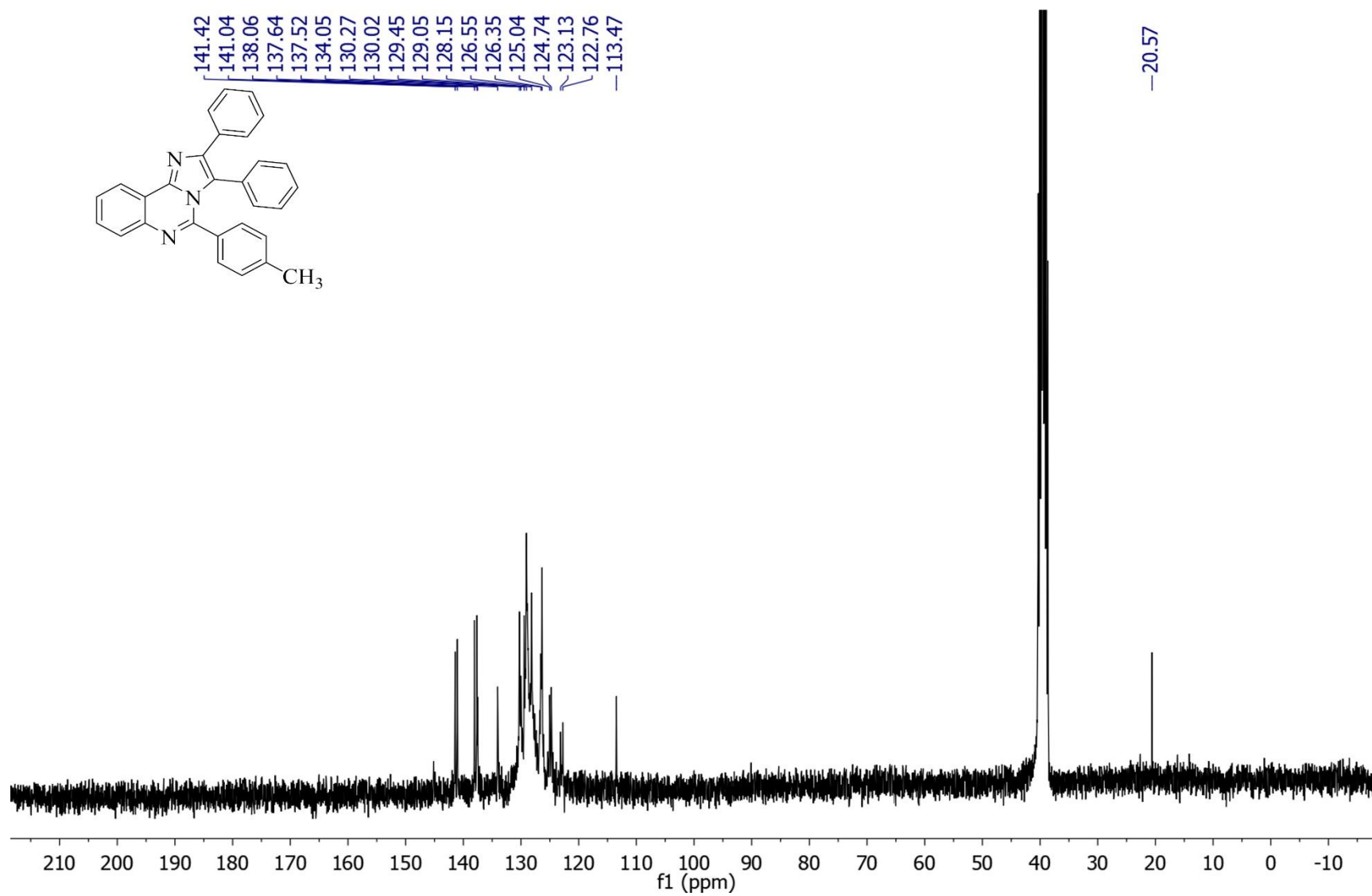
¹³C NMR spectrum of 5-(2-chlorophenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11d**



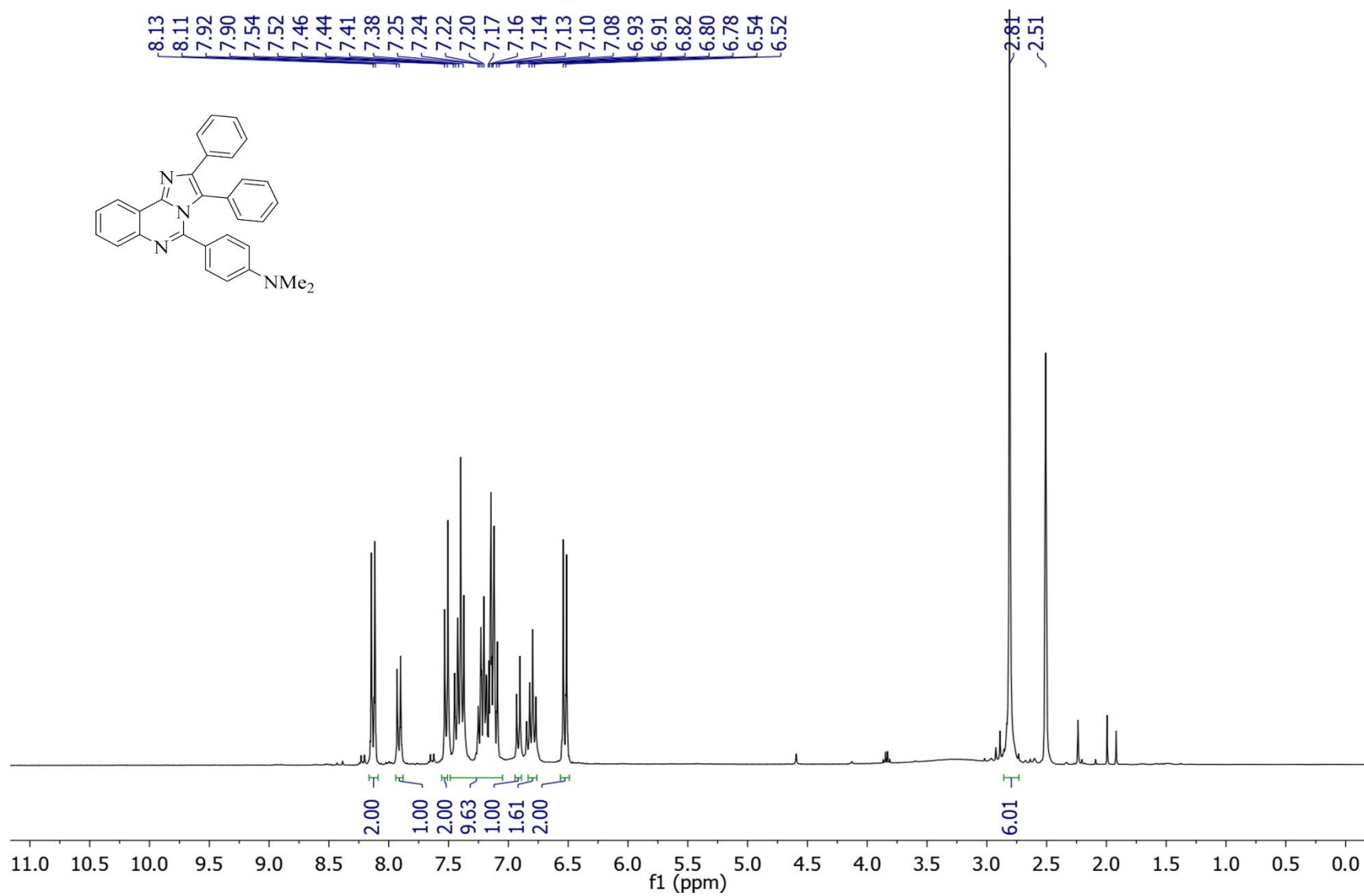
¹H NMR spectrum of 5-(4-methylphenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11e**



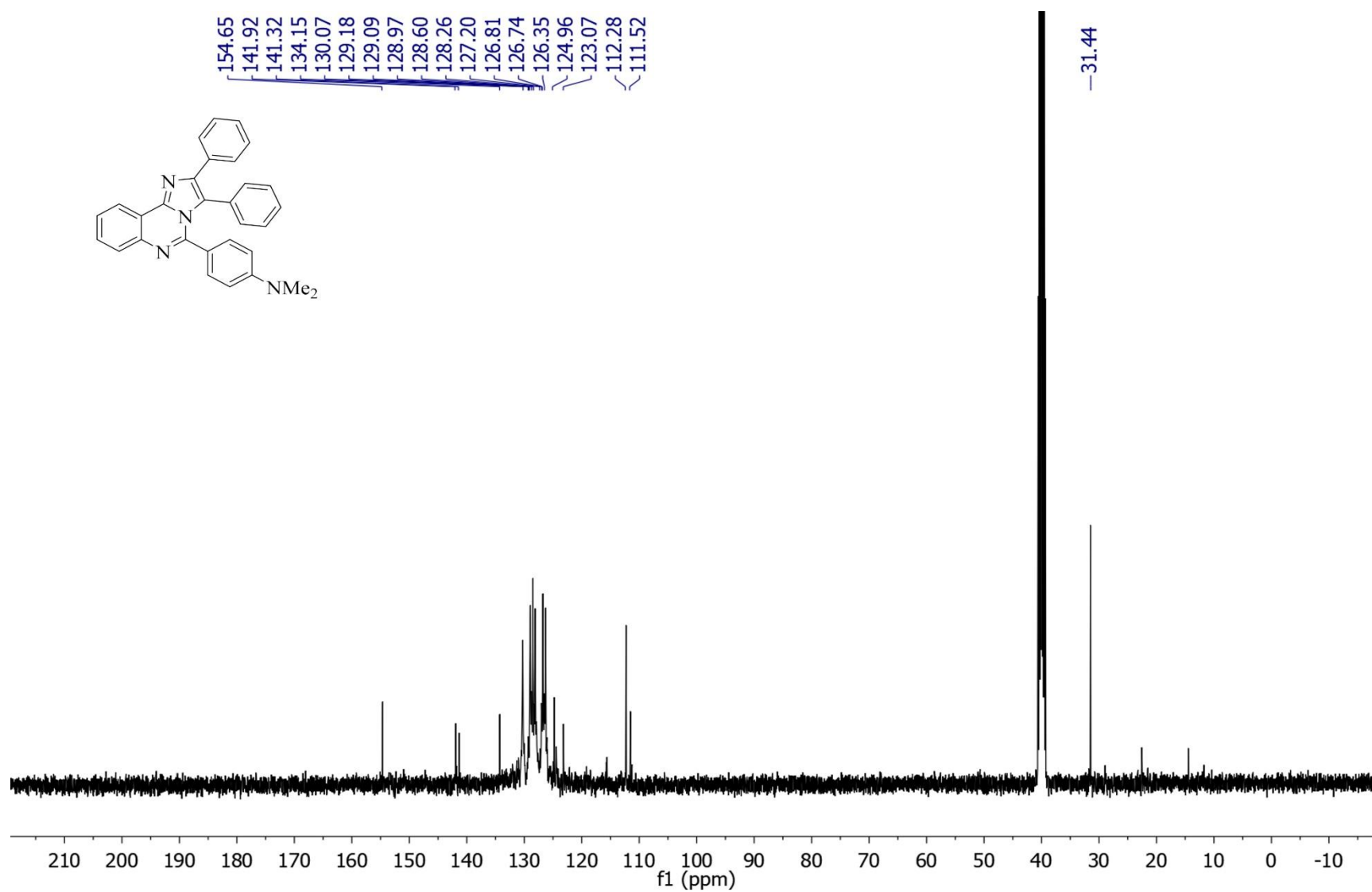
^{13}C NMR spectrum of 5-(4-methylphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11e**



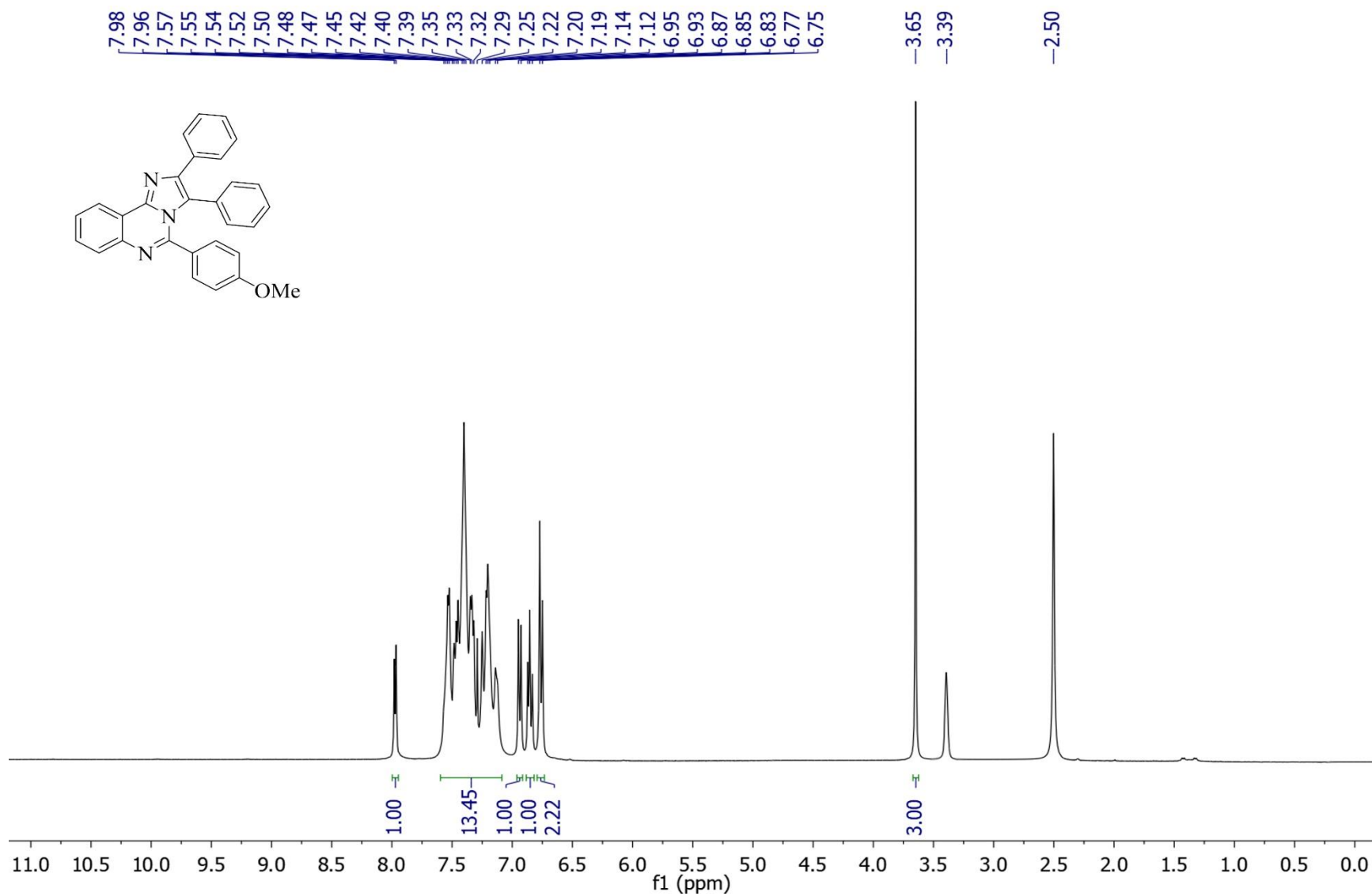
¹H NMR spectrum of 4-(2,3-diphenylimidazo[1,2-c]quinazolin-5-yl)-*N,N*-dimethylaniline **11f**



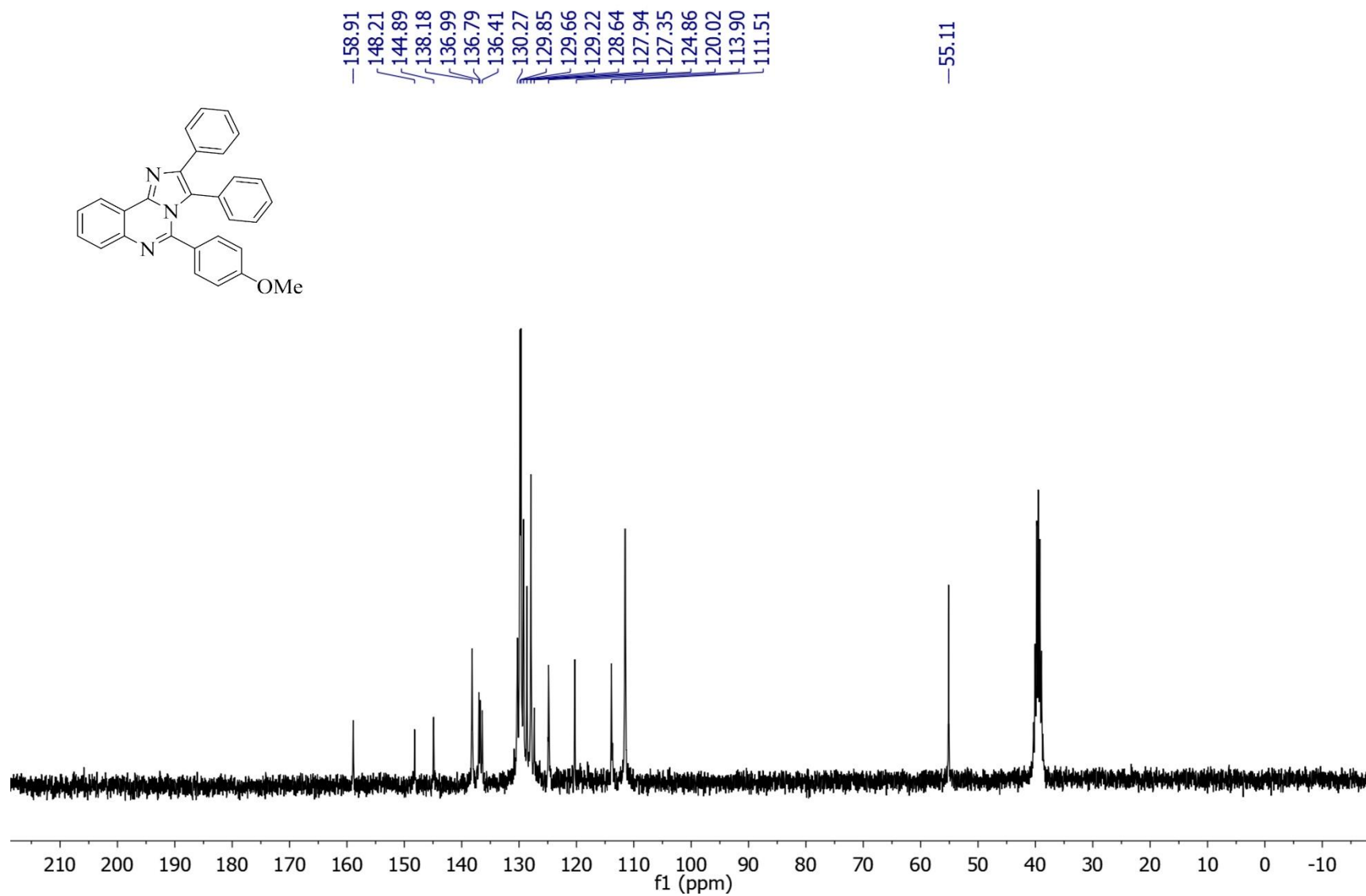
^{13}C NMR spectrum of 4-(2,3-diphenylimidazo[1,2-*c*]quinazolin-5-yl)-*N,N*-dimethylaniline **11f**



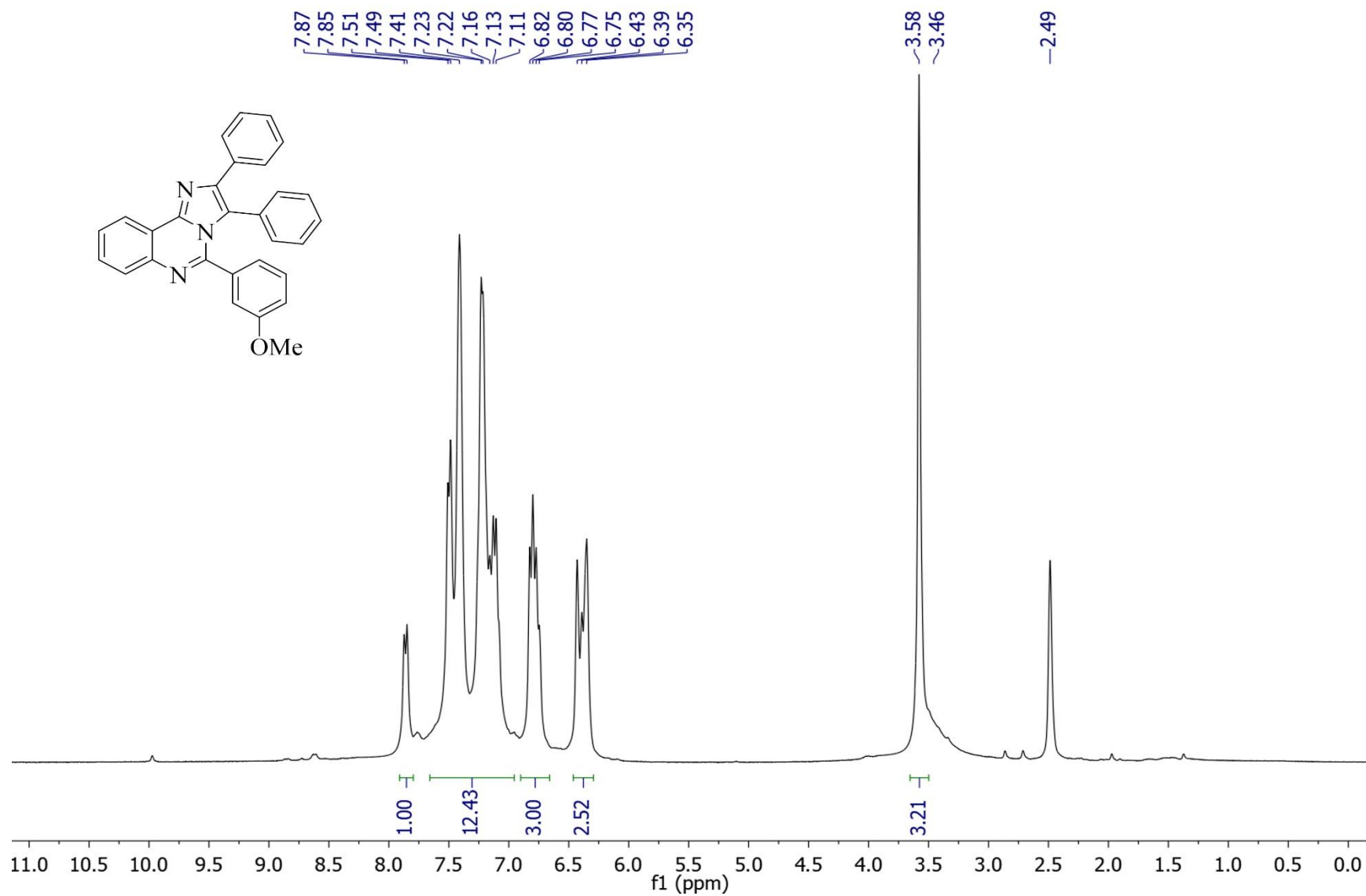
¹H NMR spectrum of 5-(4-methoxyphenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11g**



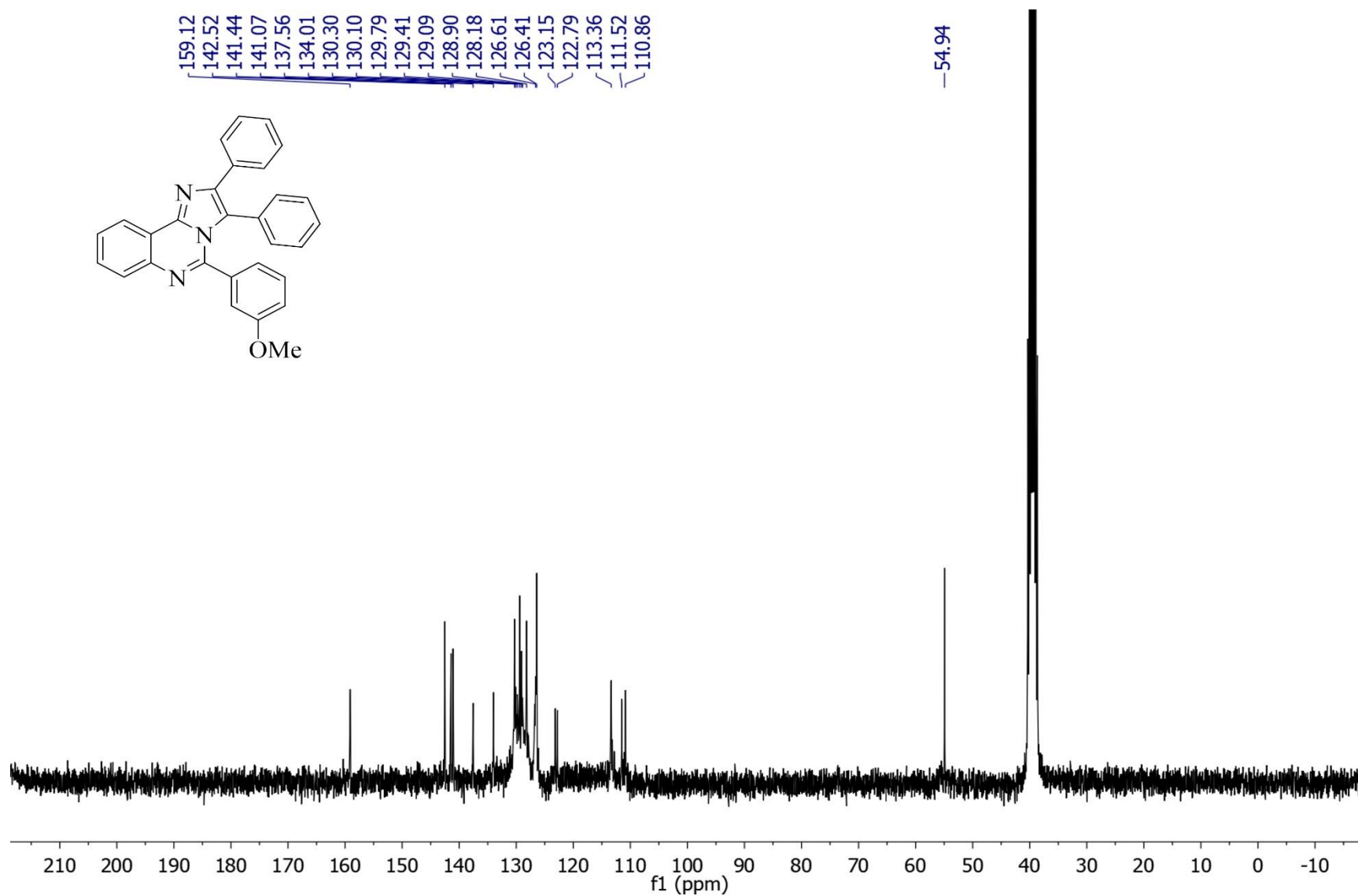
^{13}C NMR spectrum of 5-(4-methoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11g**



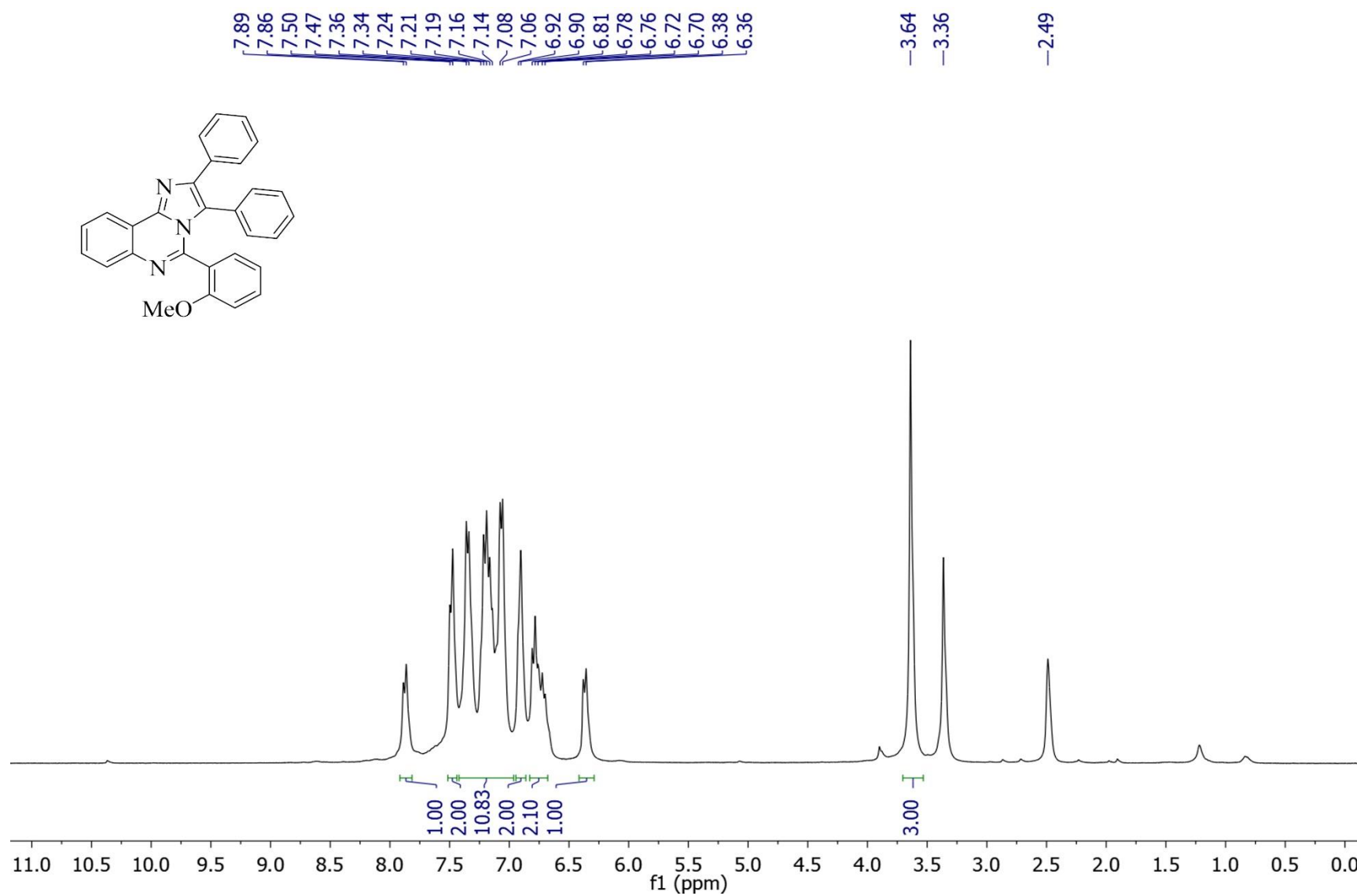
^1H NMR spectrum of 5-(3-methoxyphenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11h**



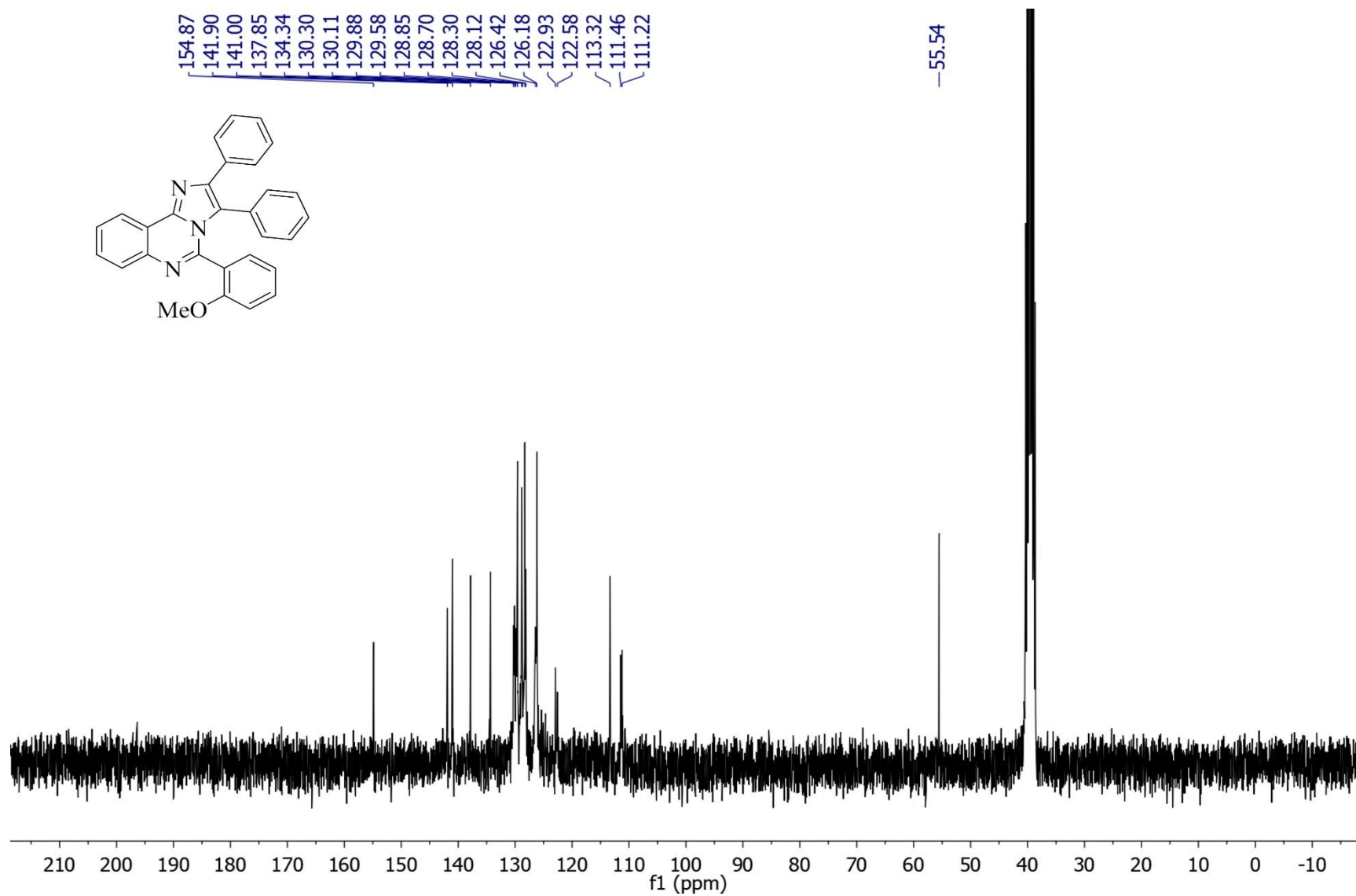
^{13}C NMR spectrum of 5-(3-methoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11h**



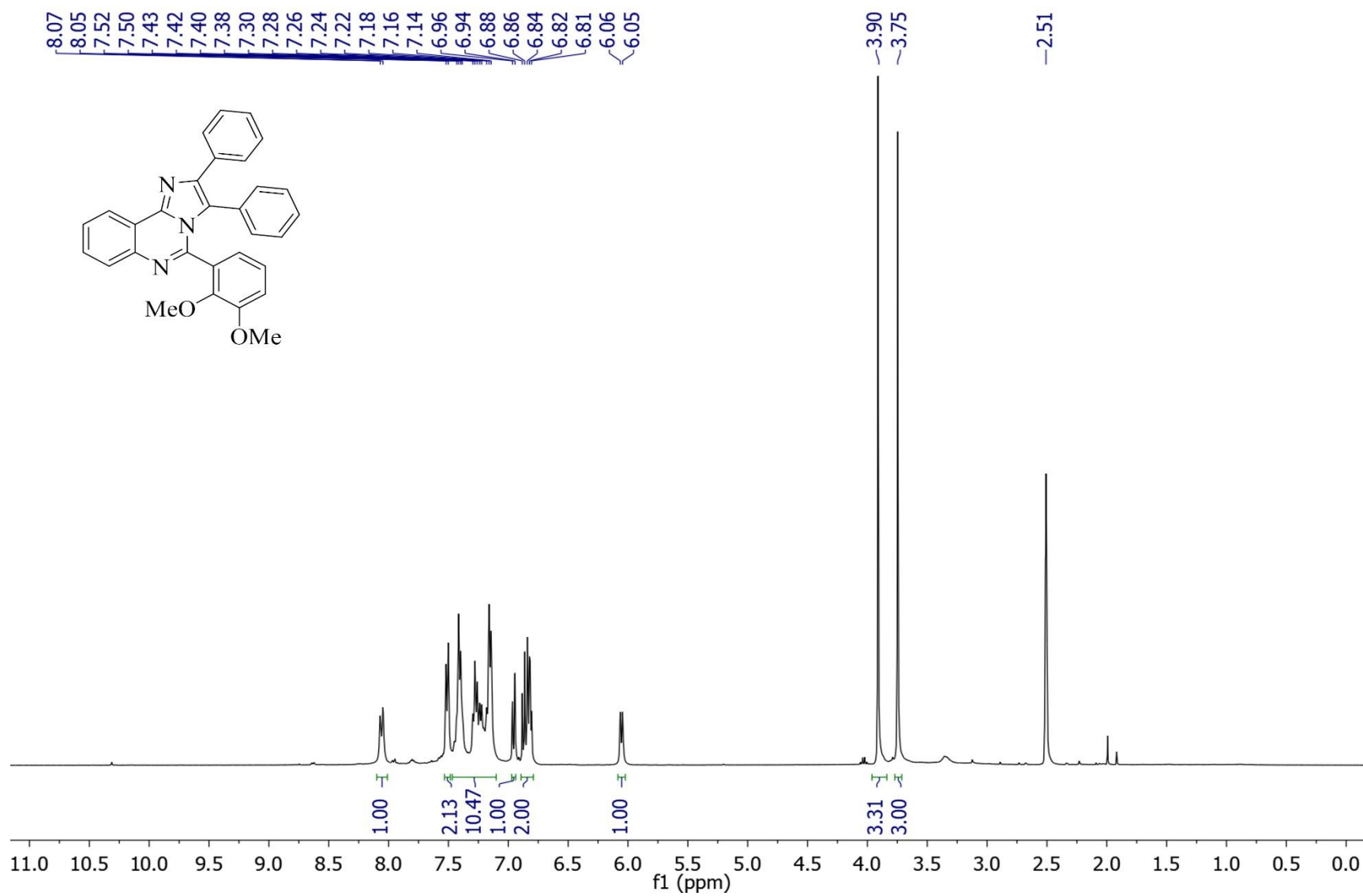
^1H NMR spectrum of 5-(2-methoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11i**



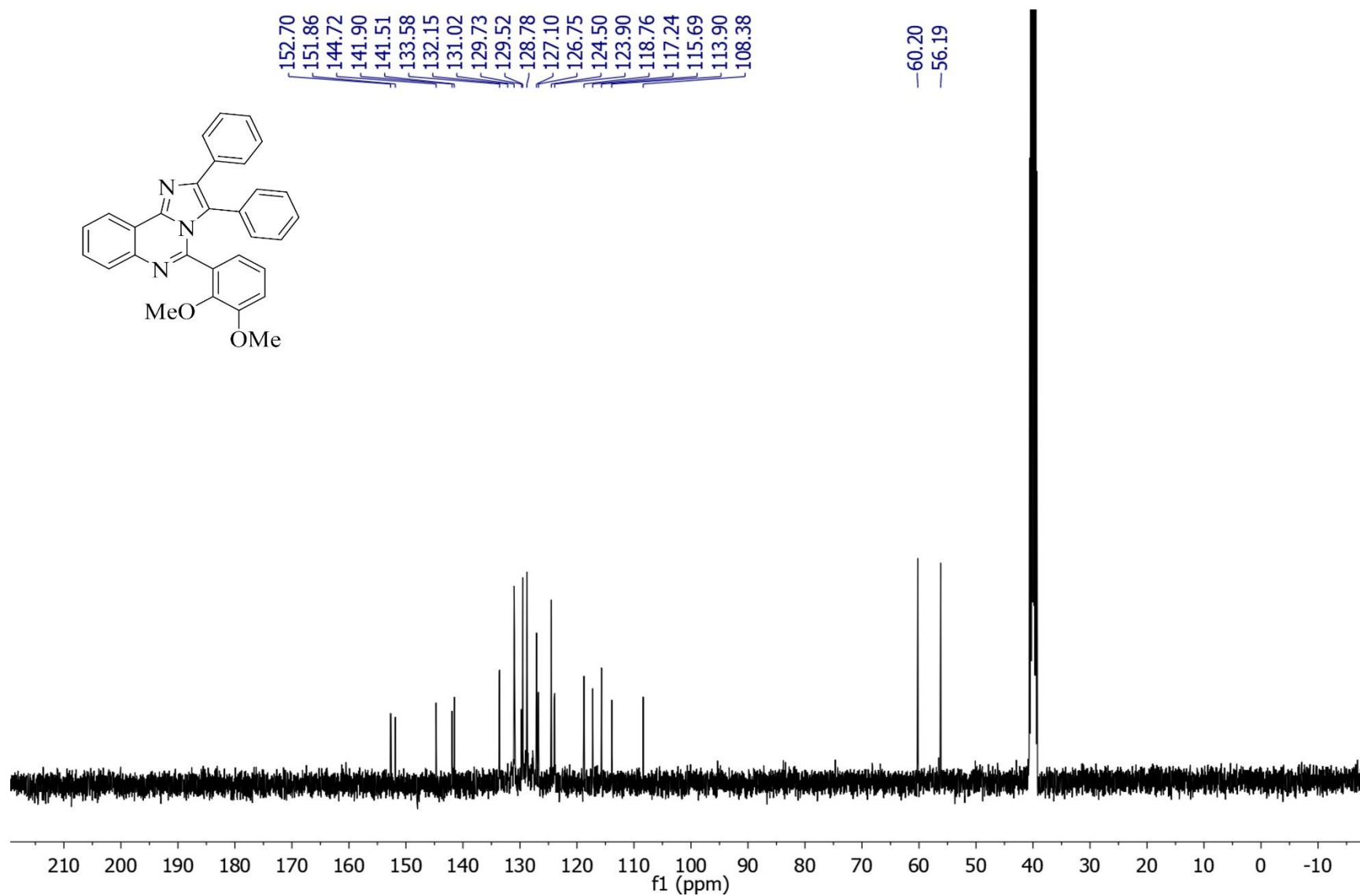
^{13}C NMR spectrum of 5-(2-methoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11i**



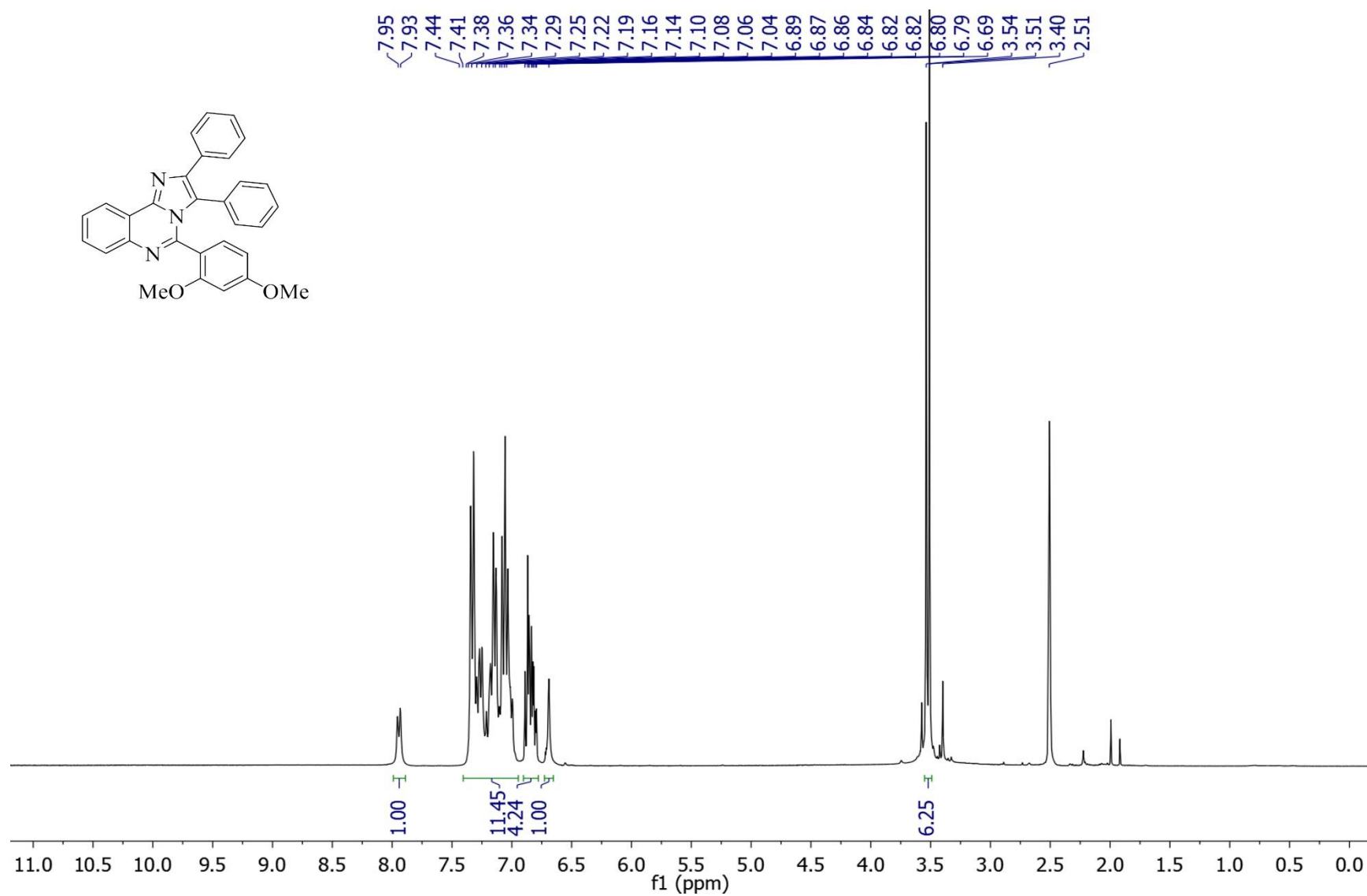
¹H NMR spectrum of 5-(2,3-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11j**



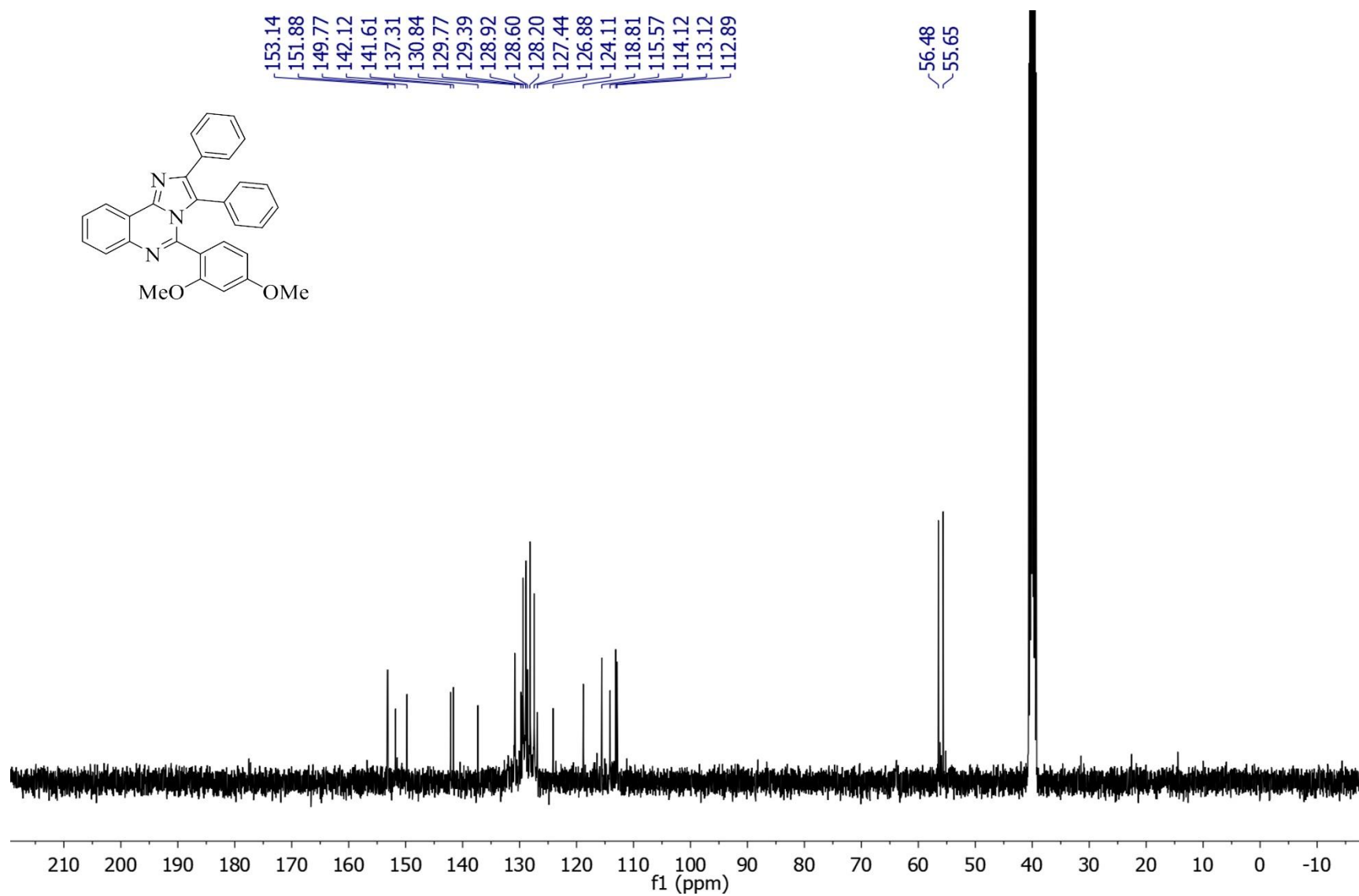
^{13}C NMR spectrum of 5-(2,3-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11j**



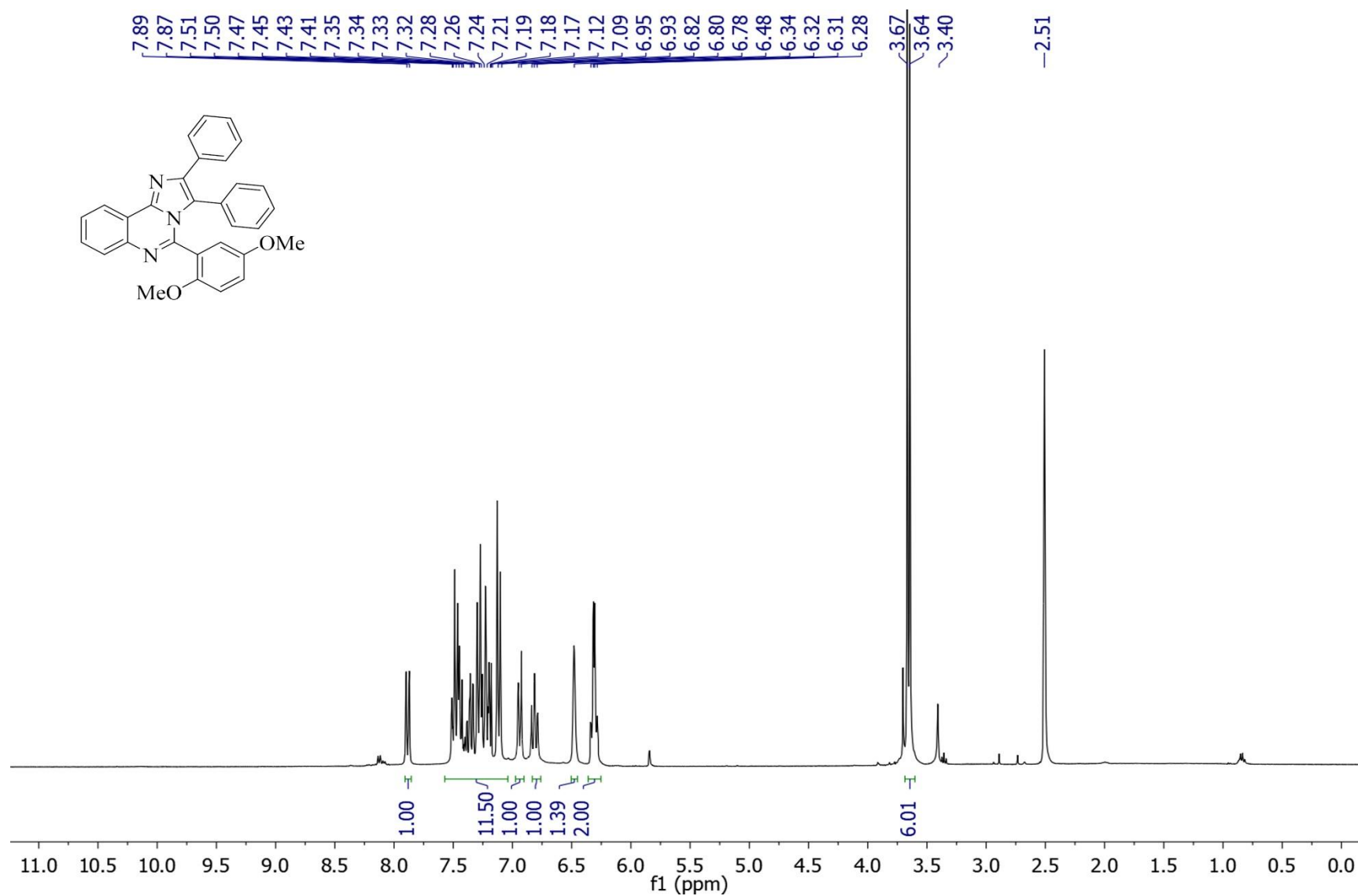
^1H NMR spectrum of 5-(2,4-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11k**



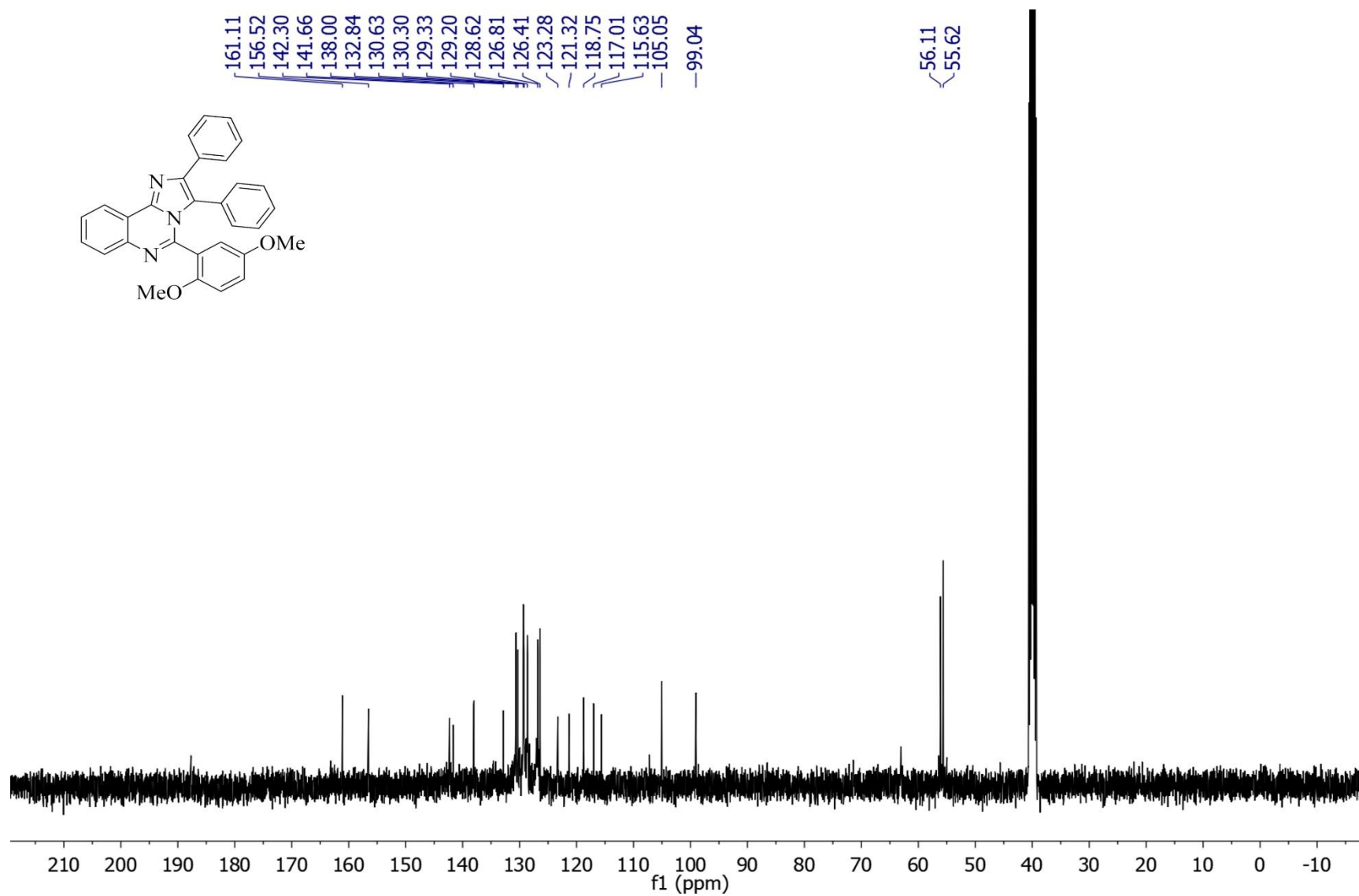
^{13}C NMR spectrum of 5-(2,4-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11k**



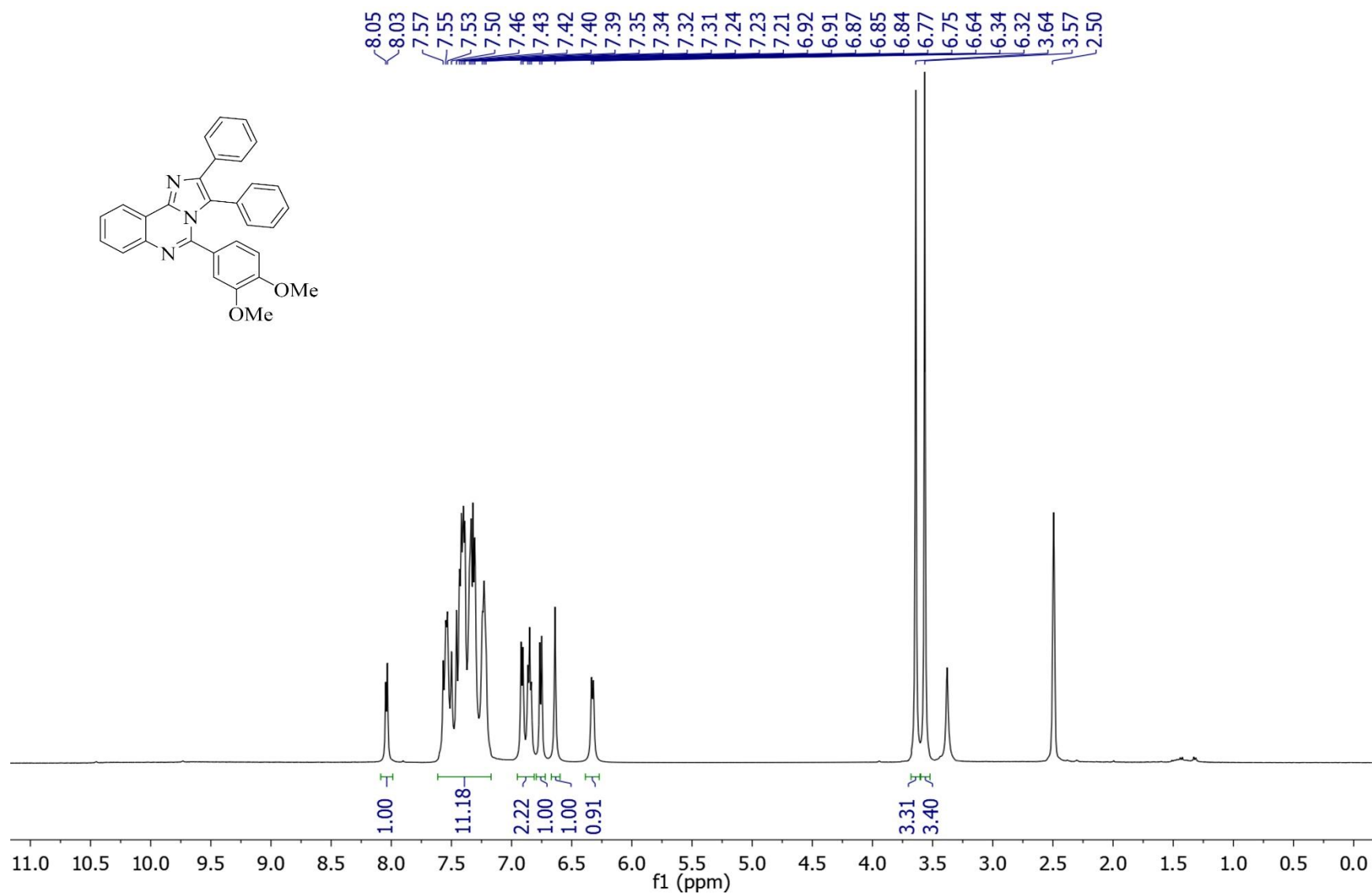
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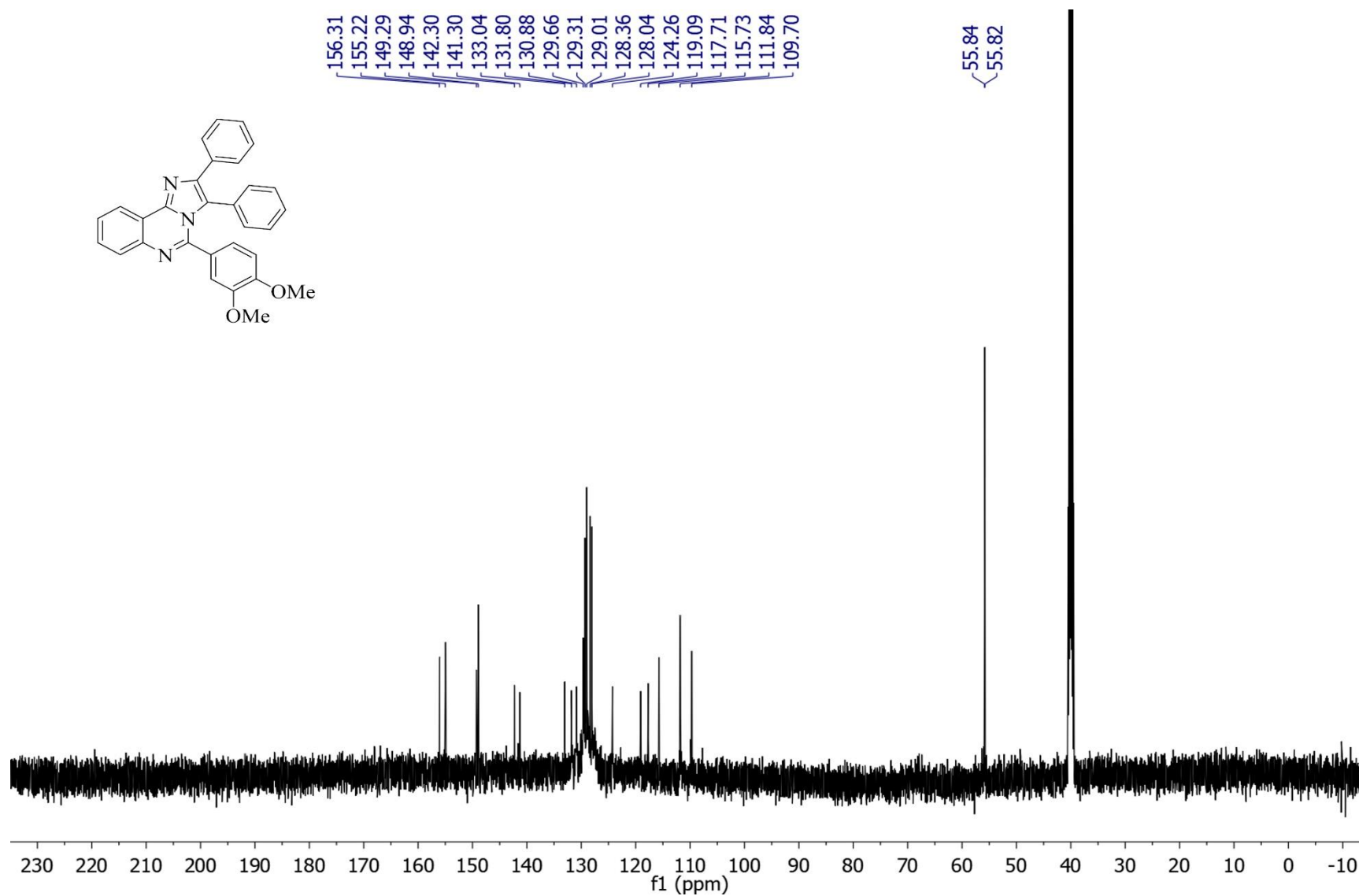
^{13}C NMR spectrum of 5-(2,5-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **111**



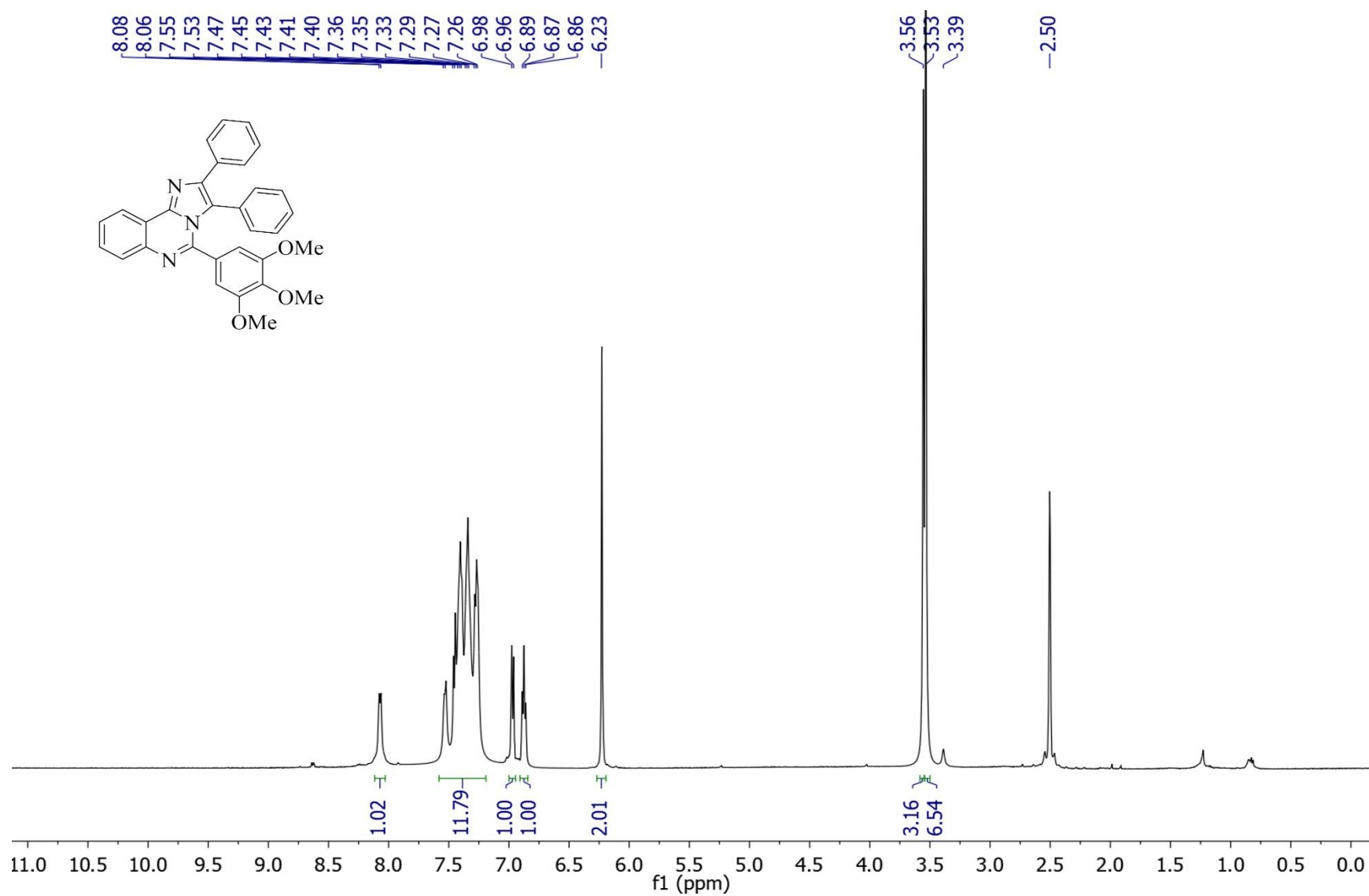
^1H NMR spectrum of 5-(3,4-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-c]quinazoline **11m**



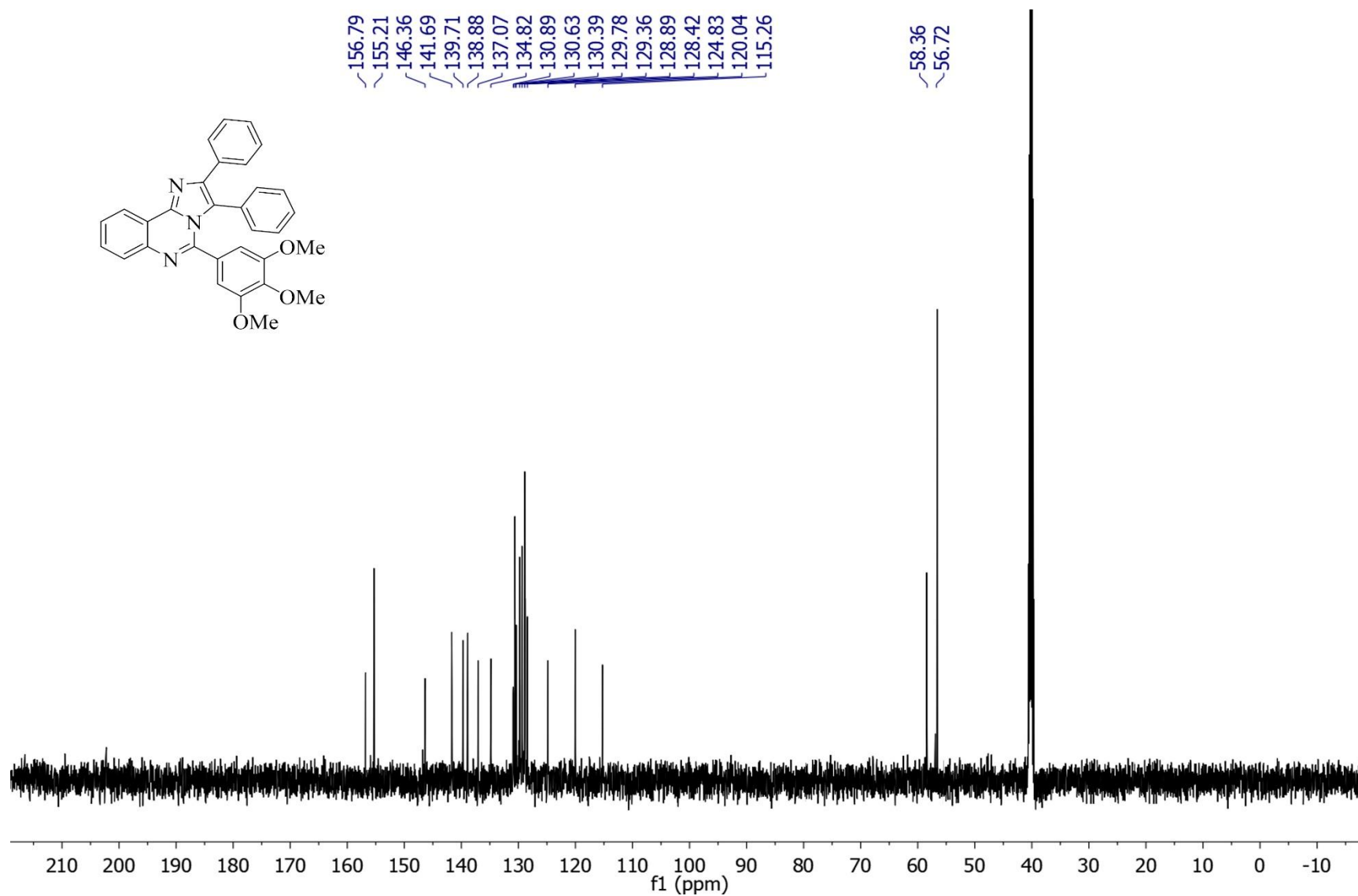
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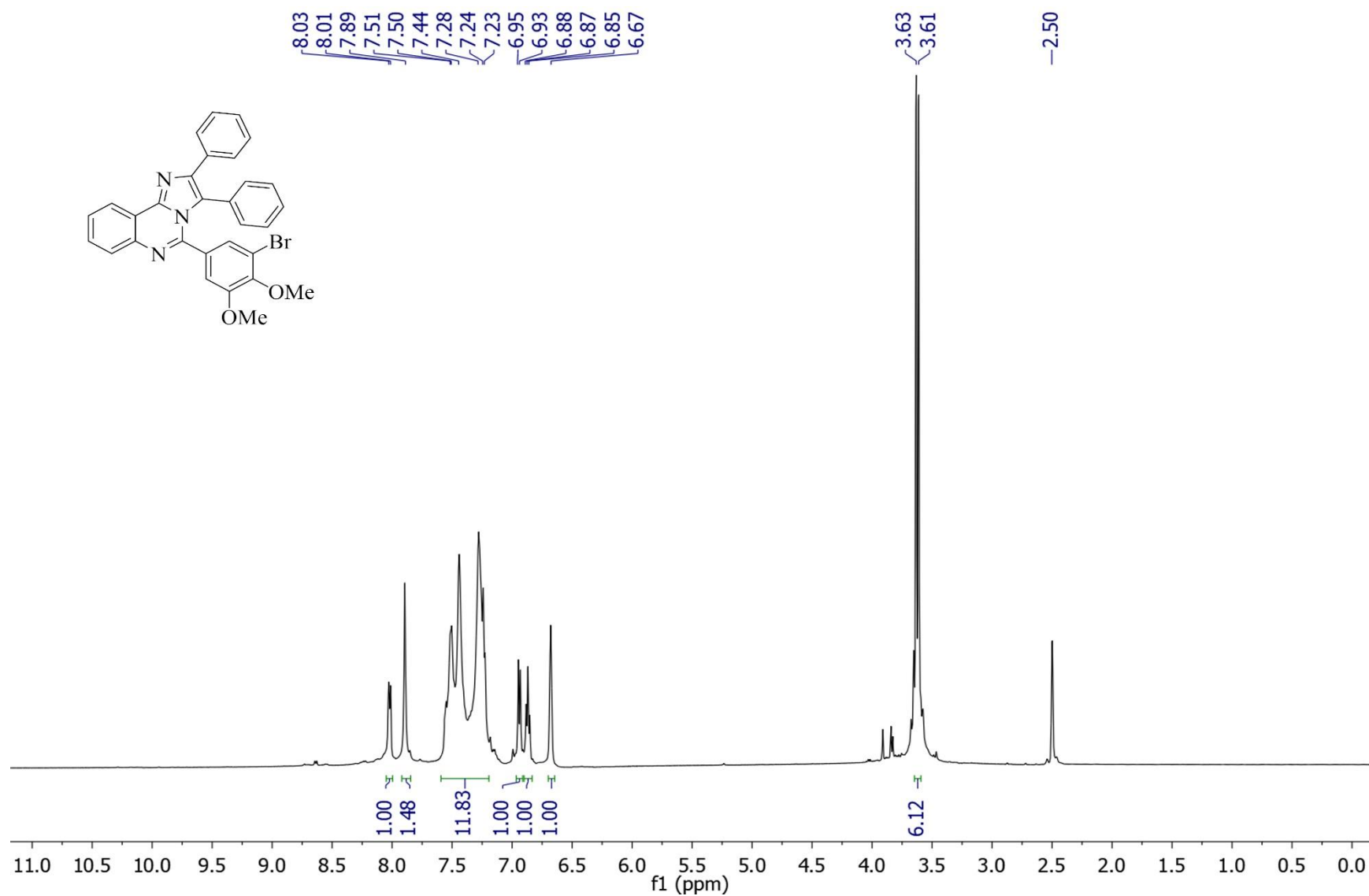
¹H NMR spectrum of 2,3-diphenyl-5-(3,4,5-trimethoxyphenyl)imidazo[1,2-c]quinazoline **11n**



^{13}C NMR spectrum of 2,3-diphenyl-5-(3,4,5-trimethoxyphenyl)imidazo[1,2-*c*]quinazoline **11n**



^1H NMR spectrum of 5-(3-bromo-4,5-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11o**



^{13}C NMR spectrum of 5-(3-bromo-4,5-dimethoxyphenyl)-2,3-diphenylimidazo[1,2-*c*]quinazoline **11o**

