

Figure S23. $^1\text{H NMR}$ (500 MHz, CDCl_3) of **9d**.

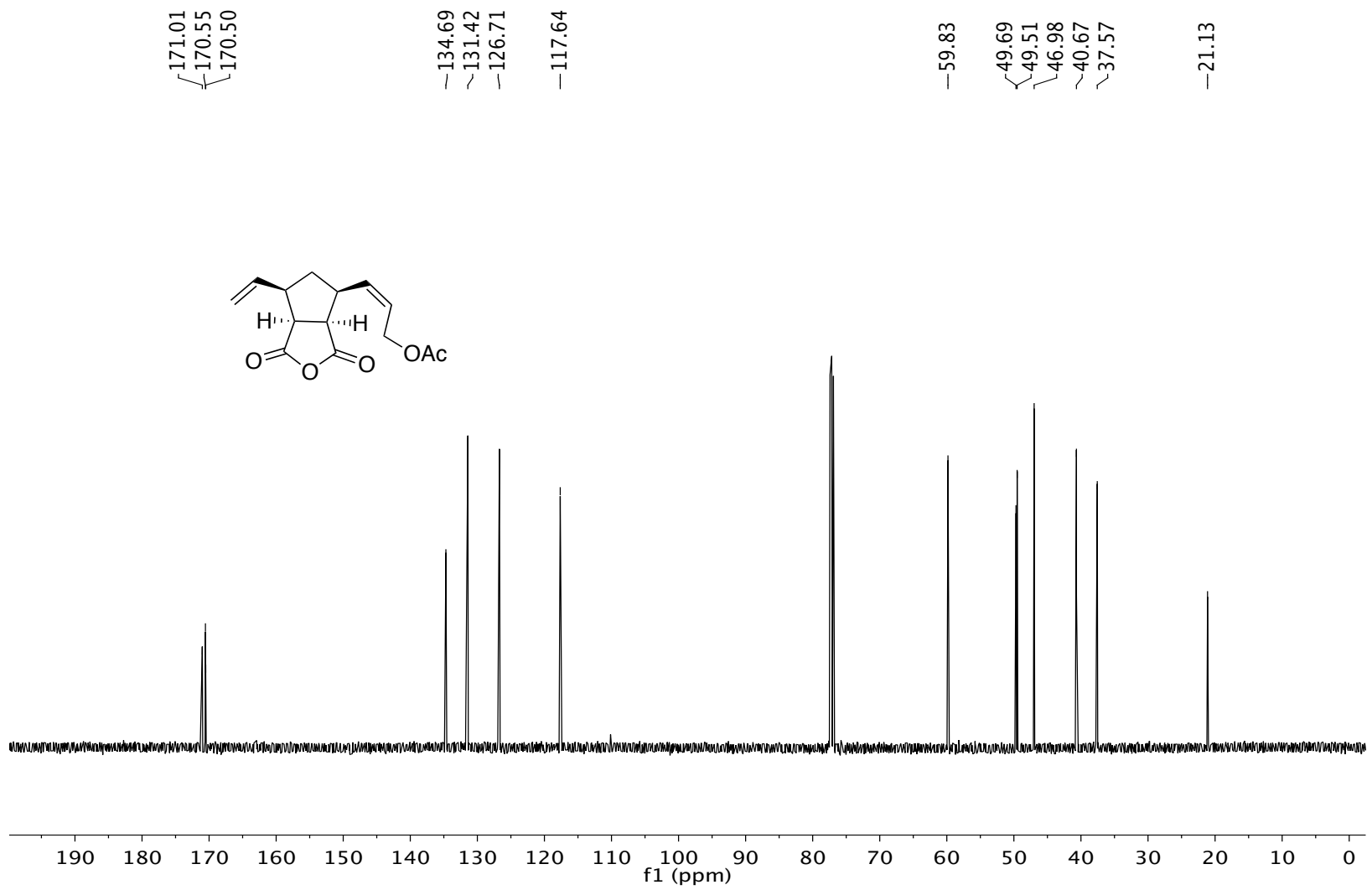


Figure S24. ^{13}C NMR (125 MHz, CDCl_3) of **9d**.

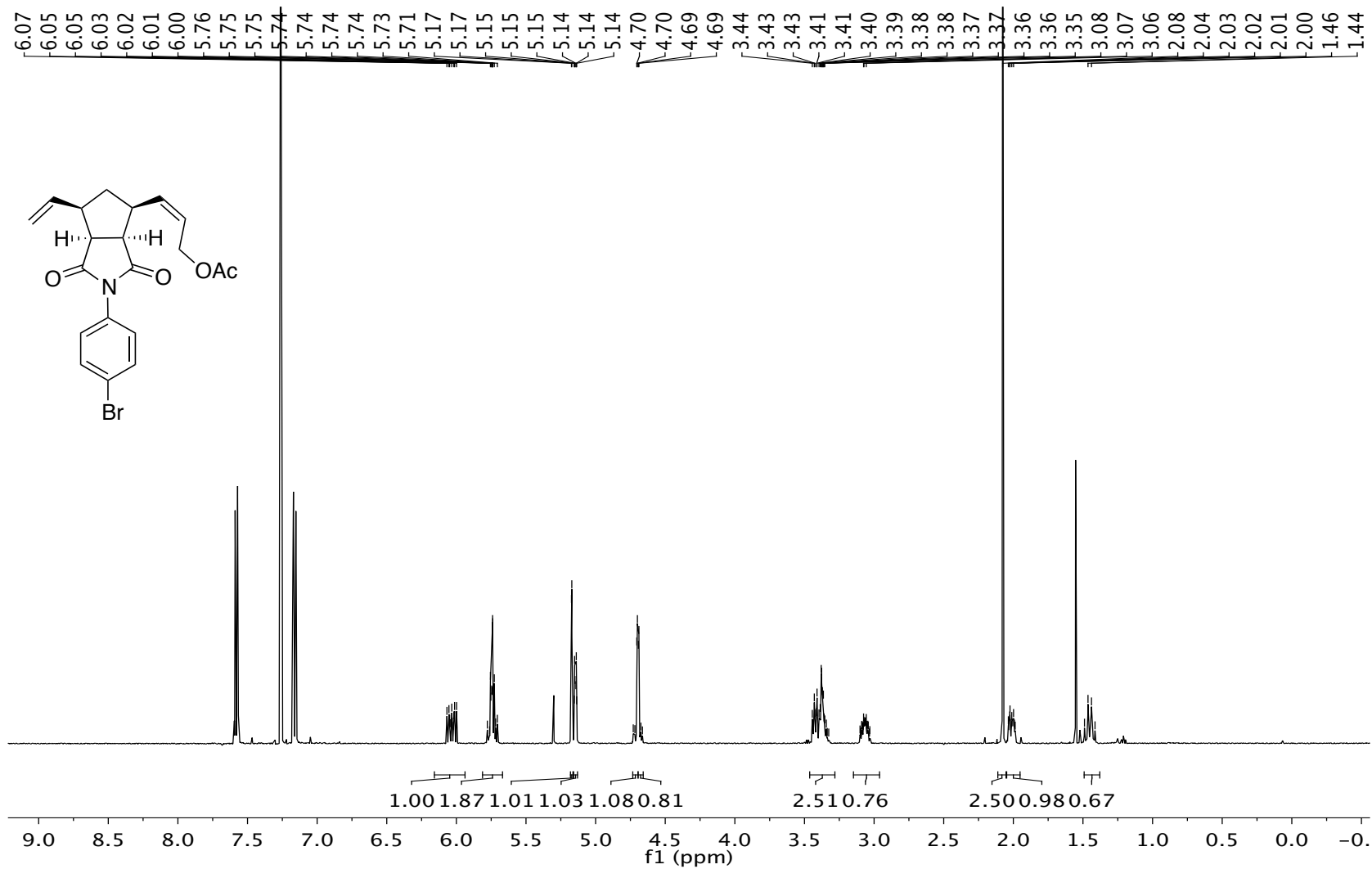


Figure S25. ¹H NMR (500 MHz, CDCl₃) of S2.

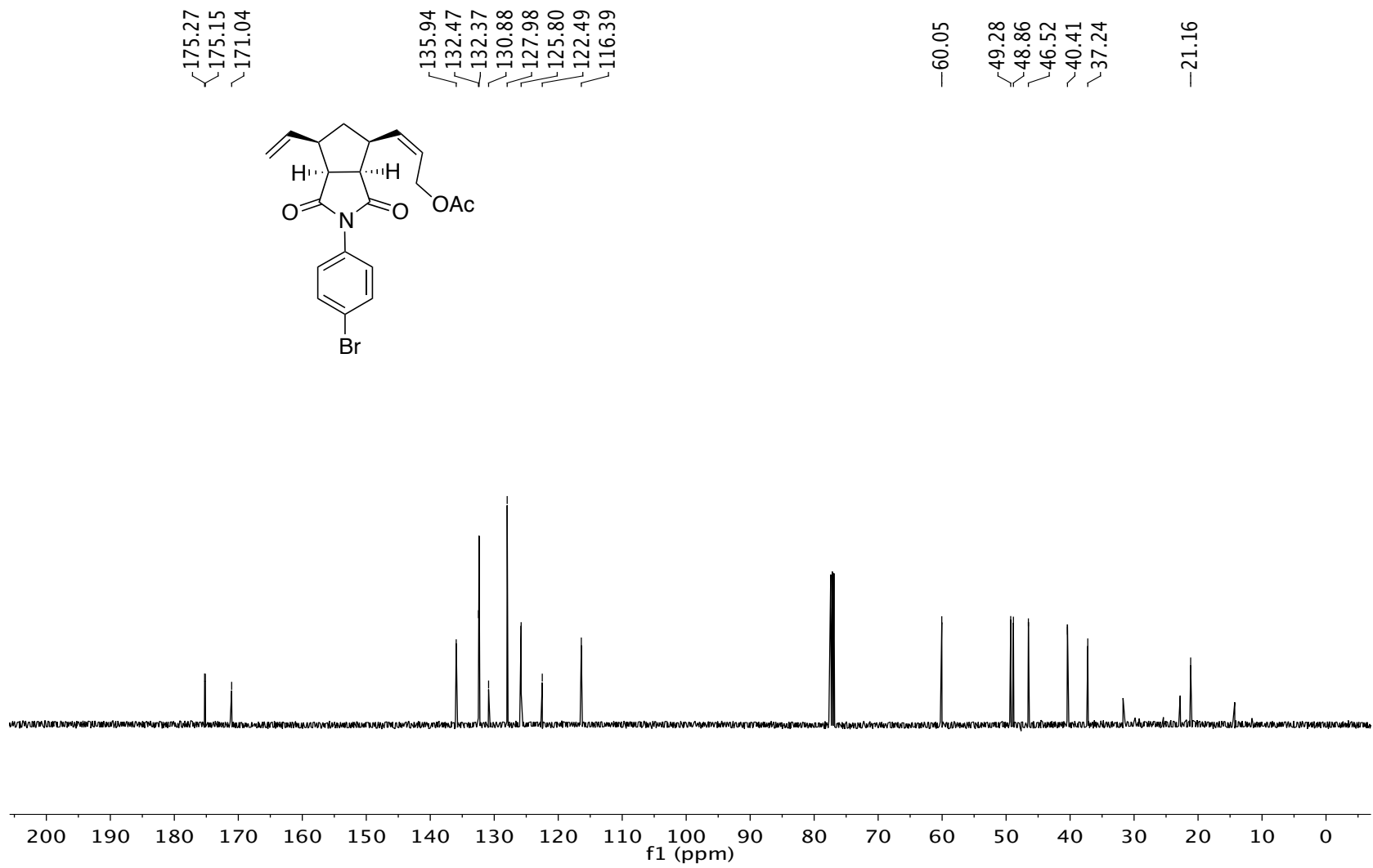


Figure S26. ¹³C NMR (125 MHz, CDCl₃) of S2.

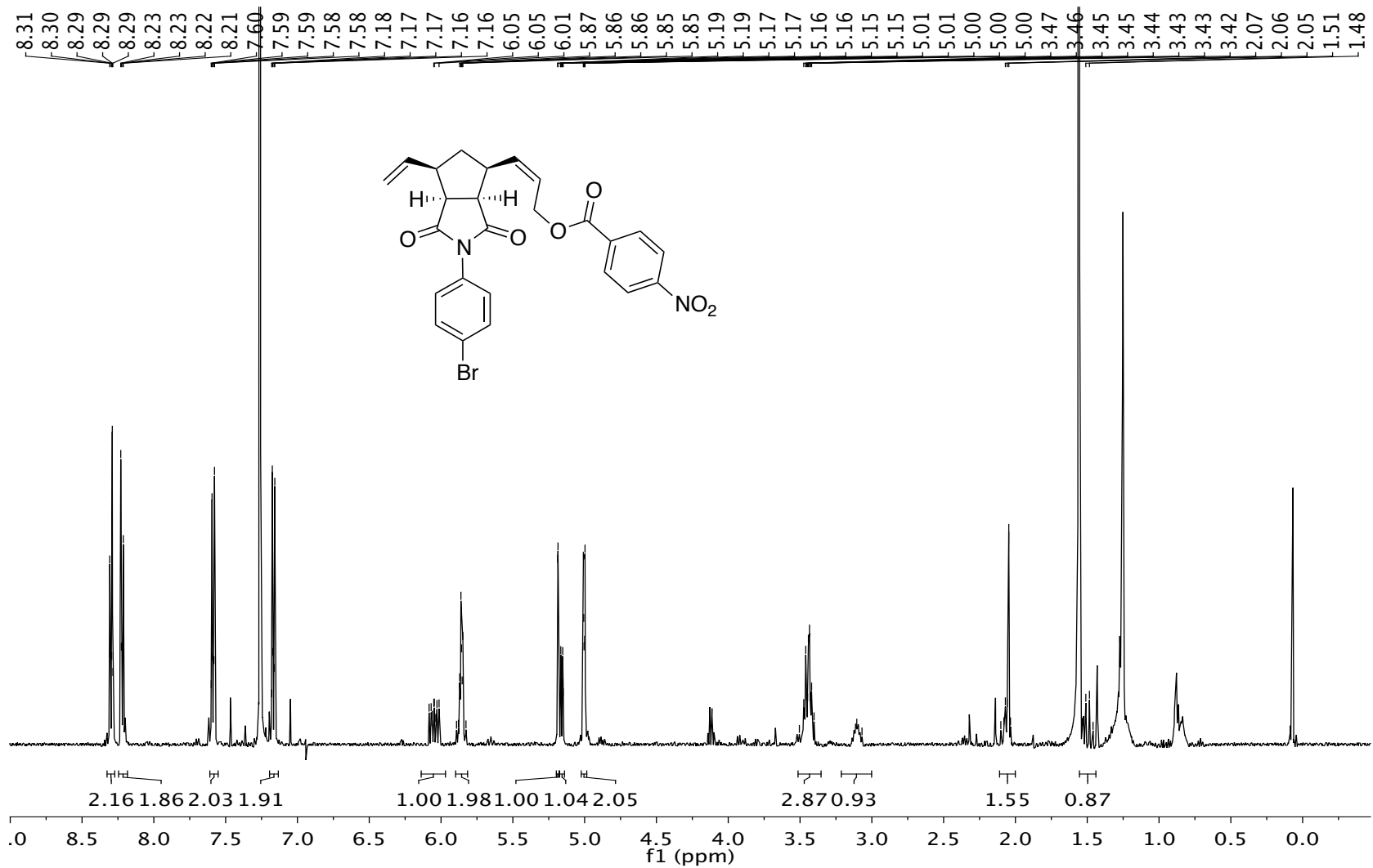


Figure S27. ^1H NMR (500 MHz, CDCl_3) of S3.

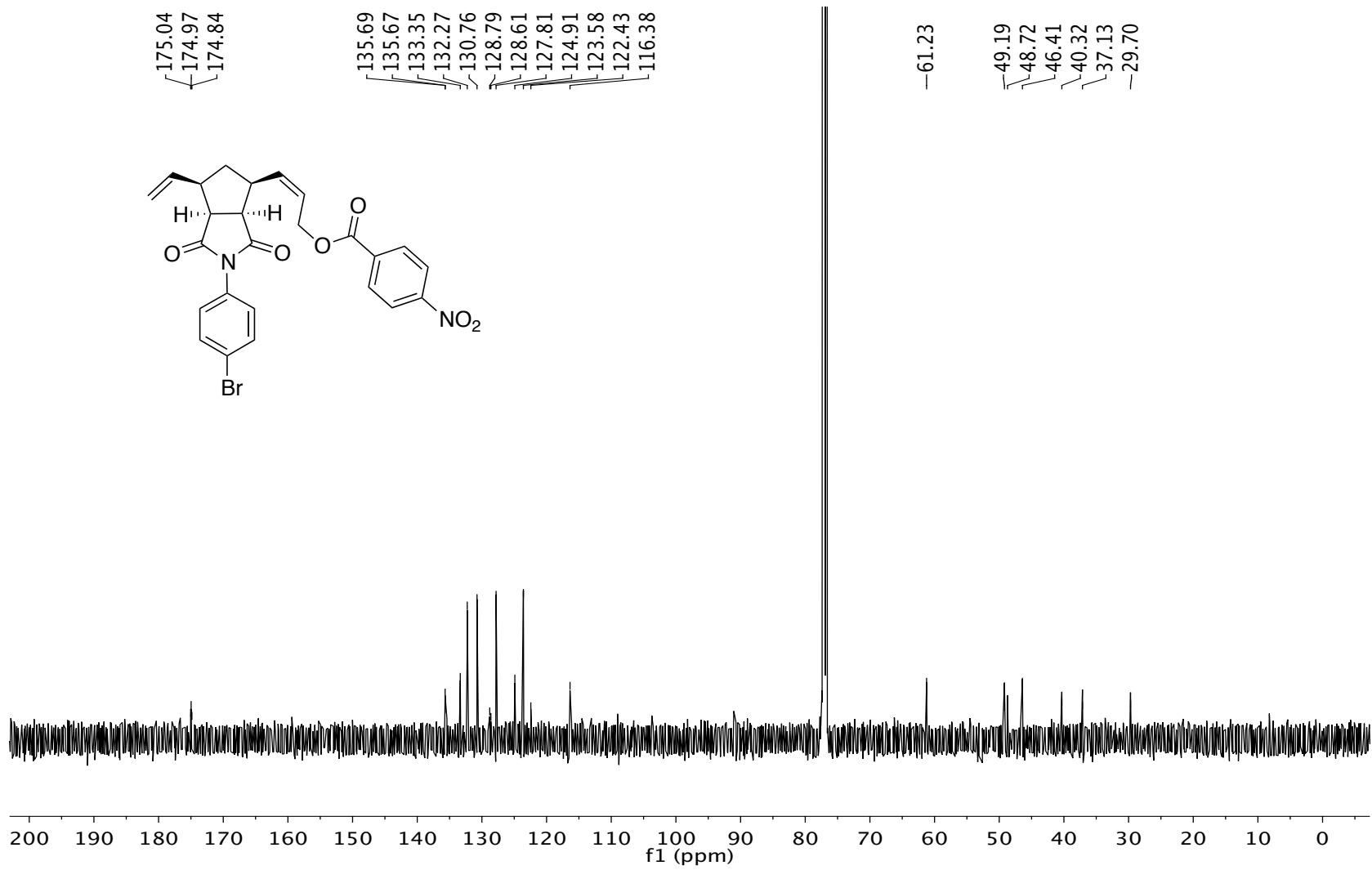


Figure S28. ¹³C NMR (125 MHz, CDCl₃) of S3.

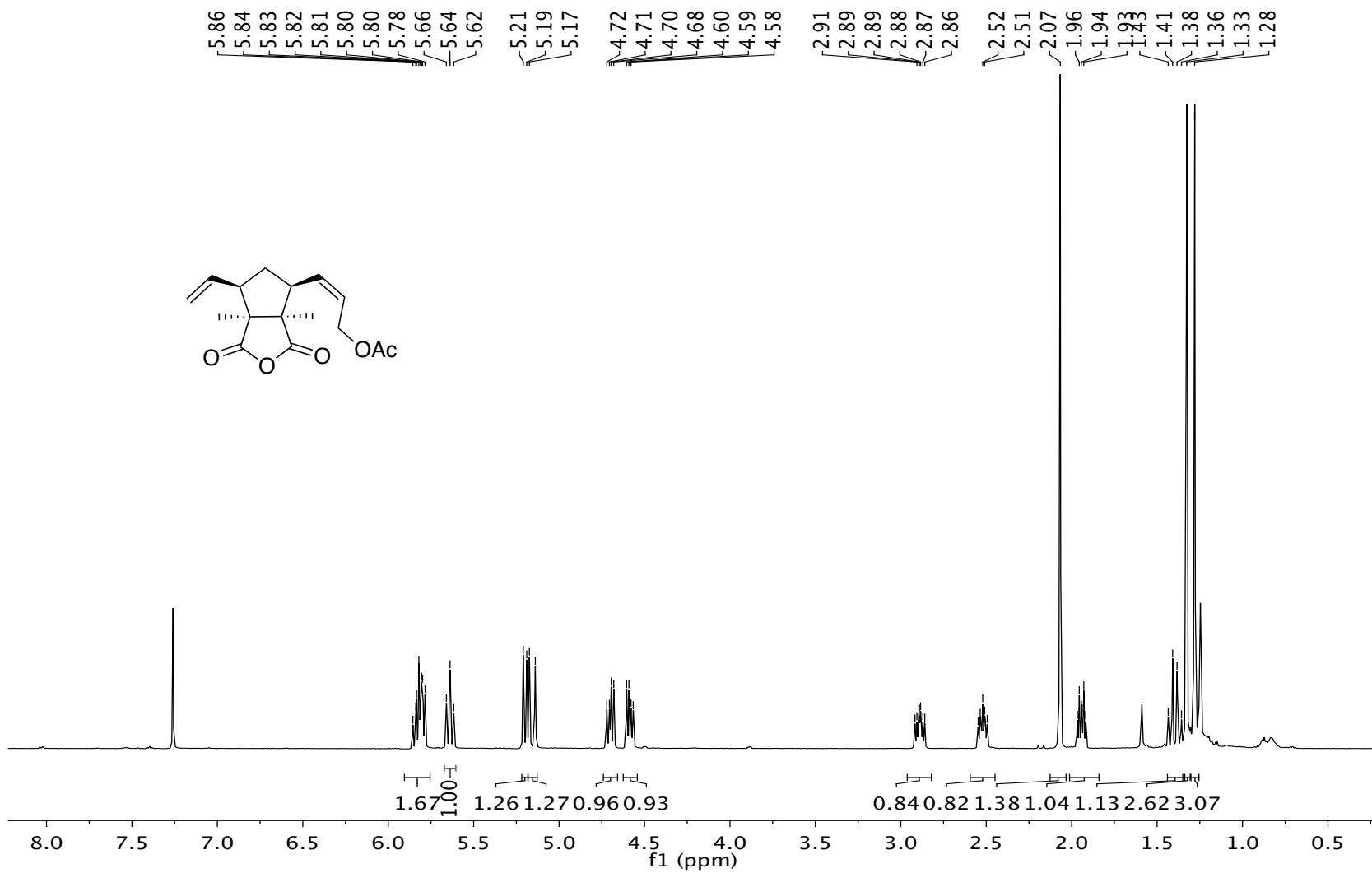


Figure S29. $^1\text{H NMR}$ (500 MHz, CDCl_3) of **9d**.

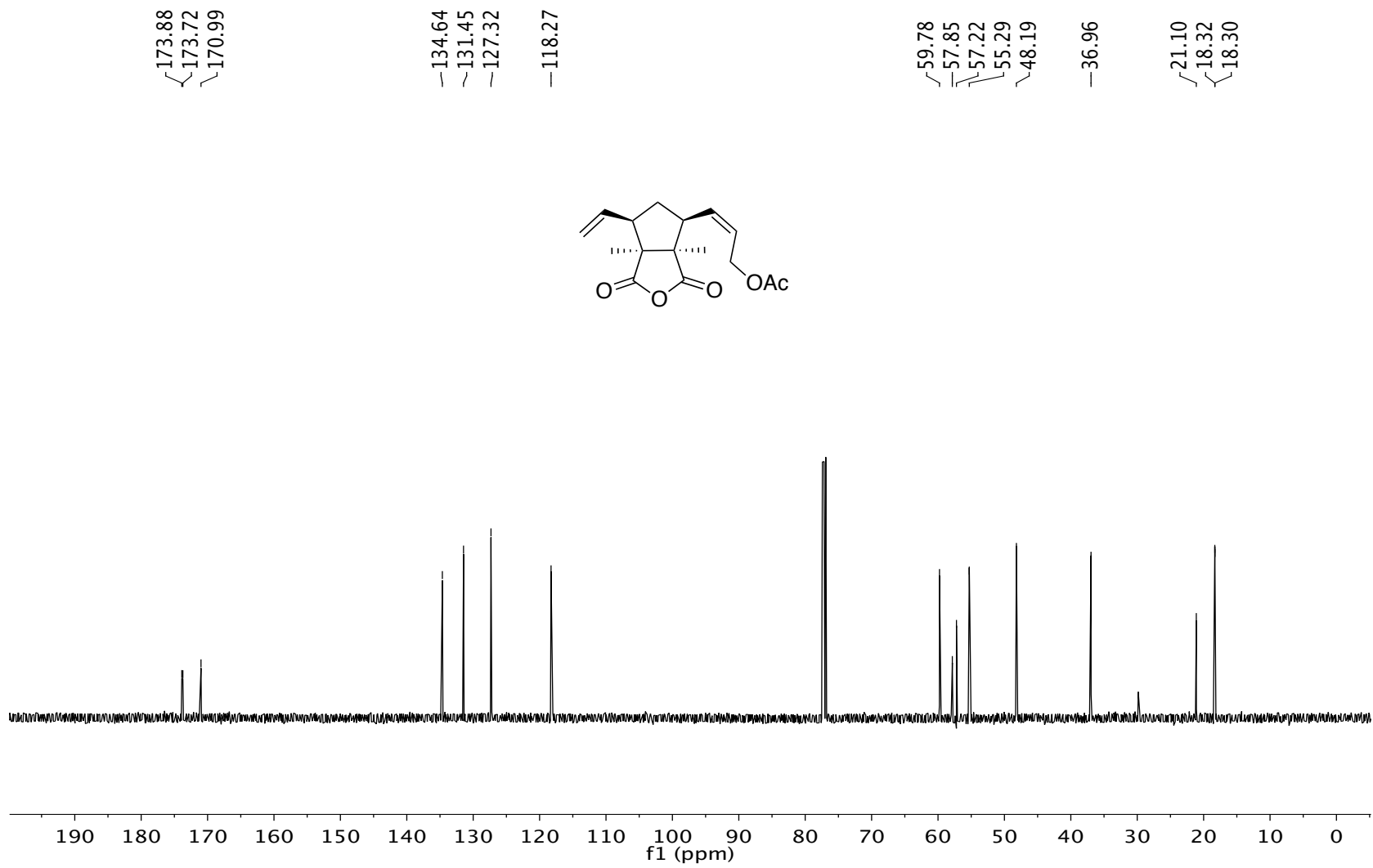


Figure S30. ¹³C NMR (125 MHz, CDCl₃) of **9d**.

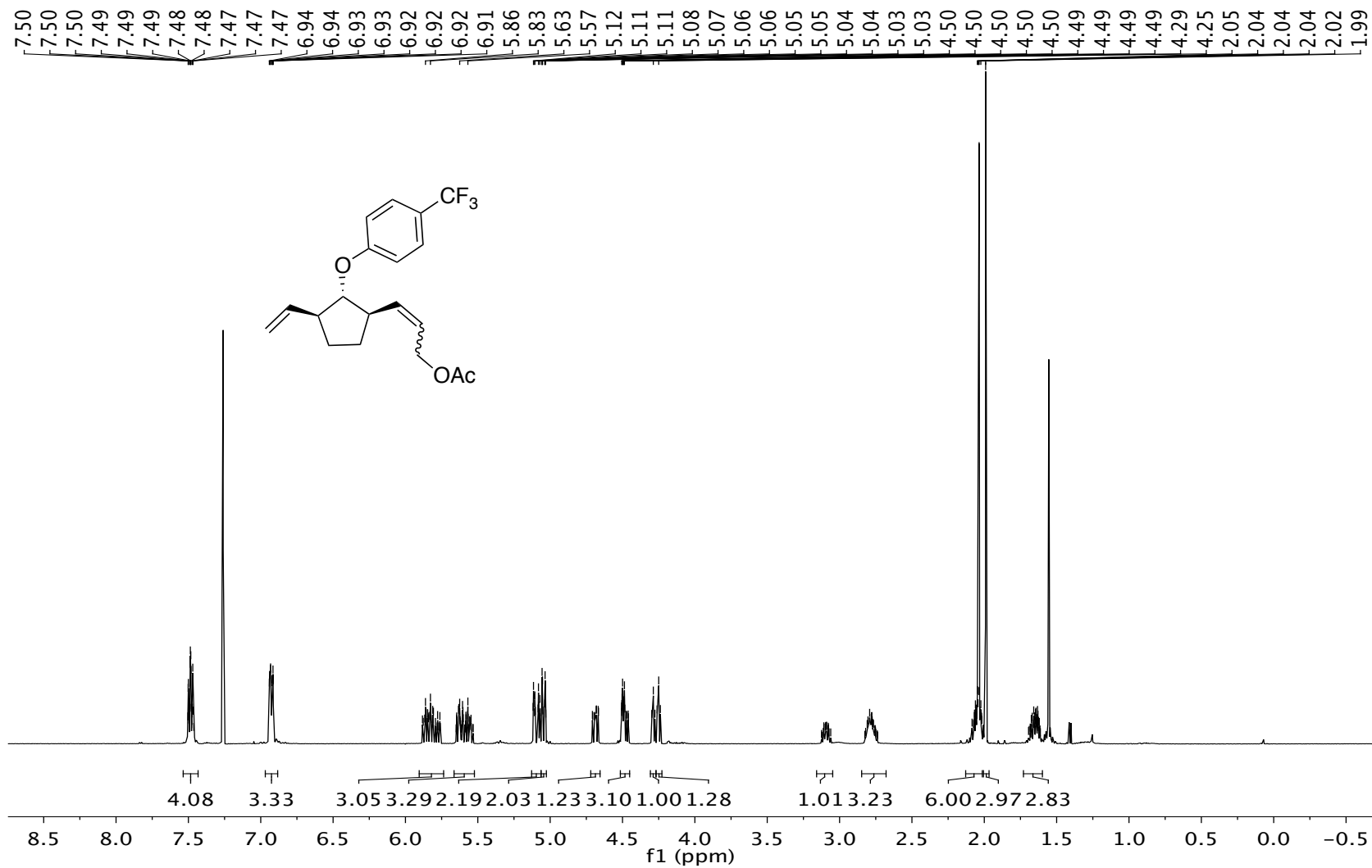


Figure S31. ¹H NMR (500 MHz, CDCl₃) of **9e**.

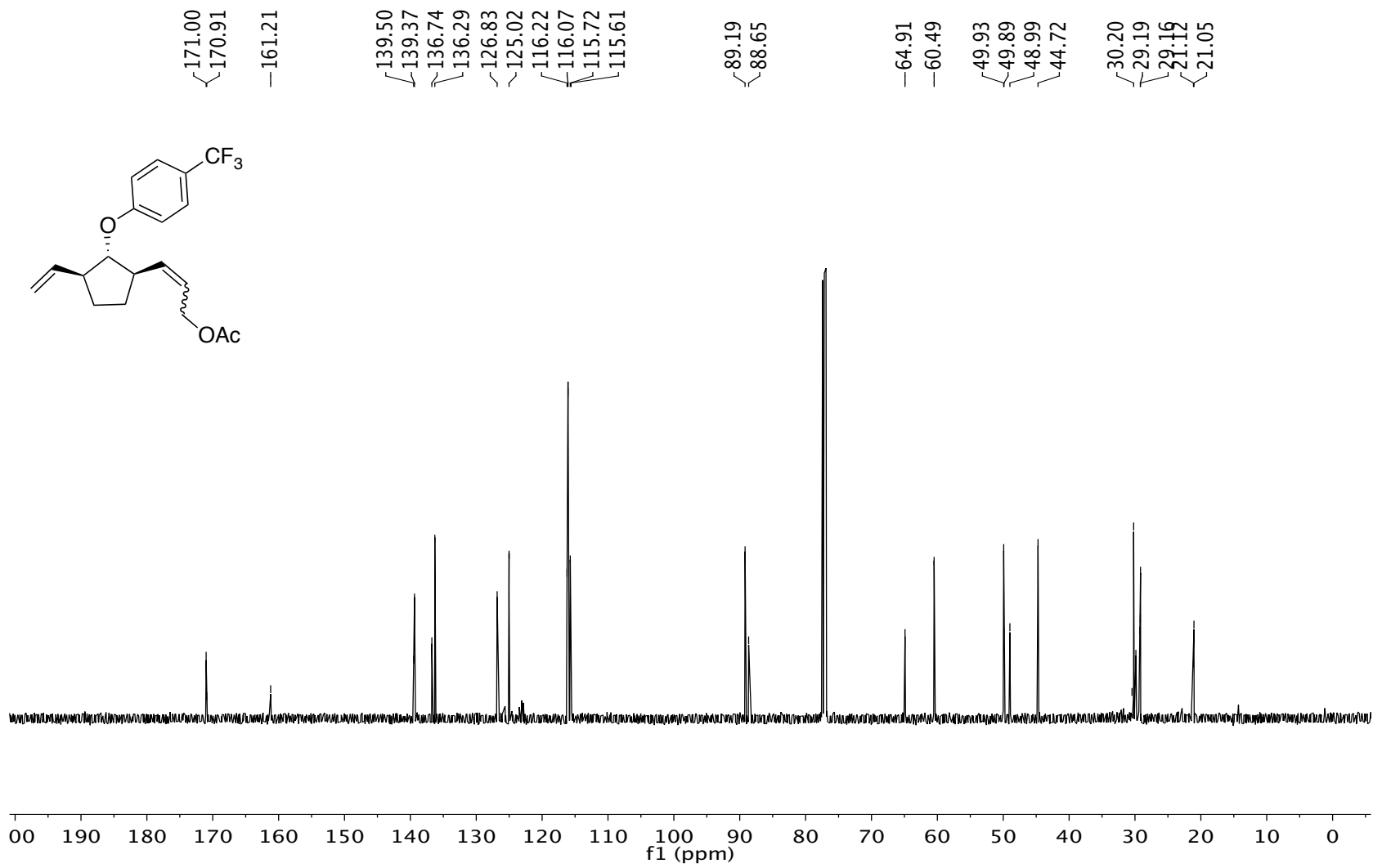


Figure S32. ¹³C NMR (125 MHz, CDCl₃) of **9e**.

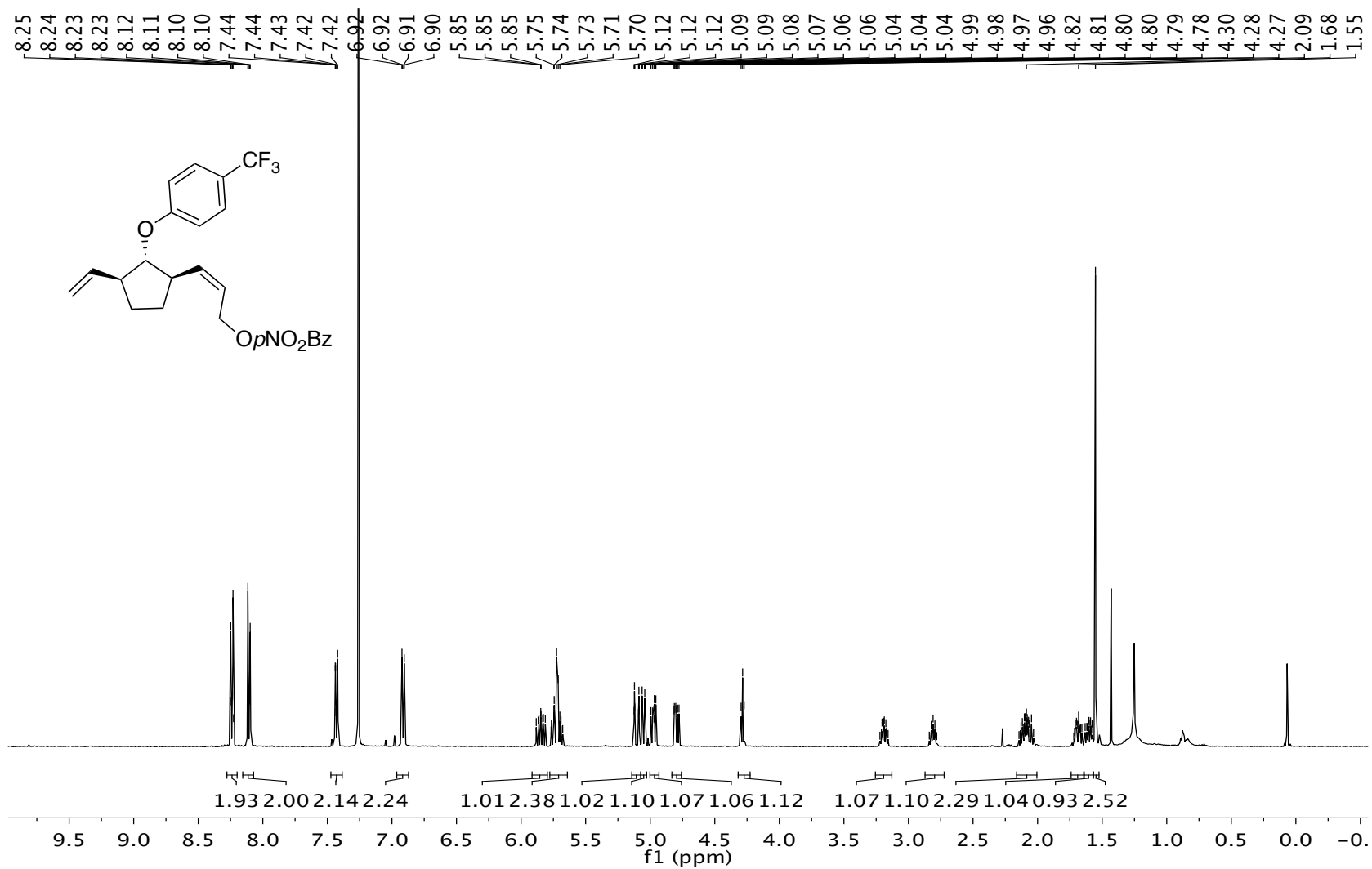


Figure S33. $^1\text{H NMR}$ (500 MHz, CDCl_3) of **S4**.

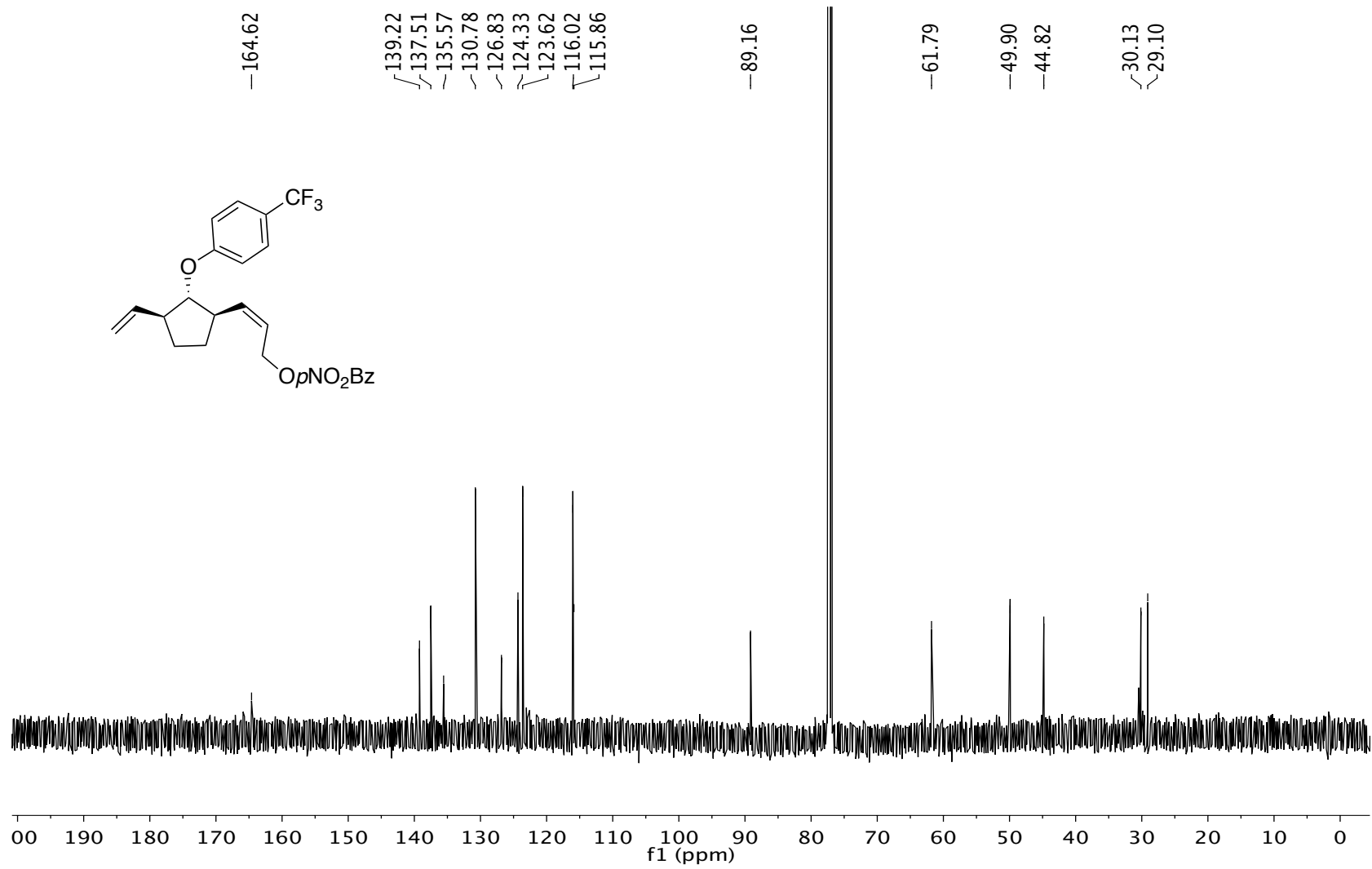


Figure S34. ^{13}C NMR (125 MHz, CDCl_3) of **S4**.

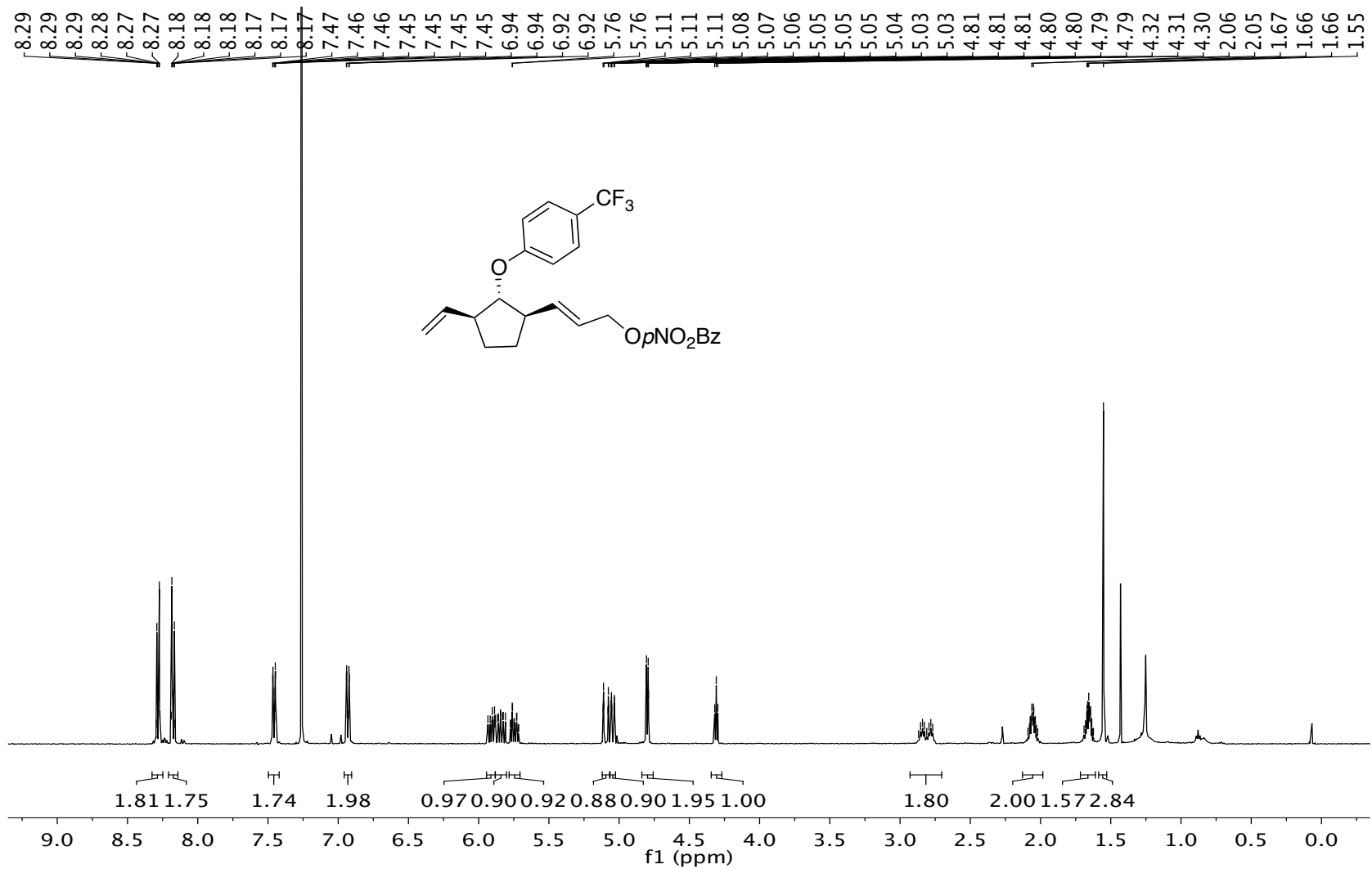


Figure S35. ^1H NMR (500 MHz, CDCl_3) of S5.

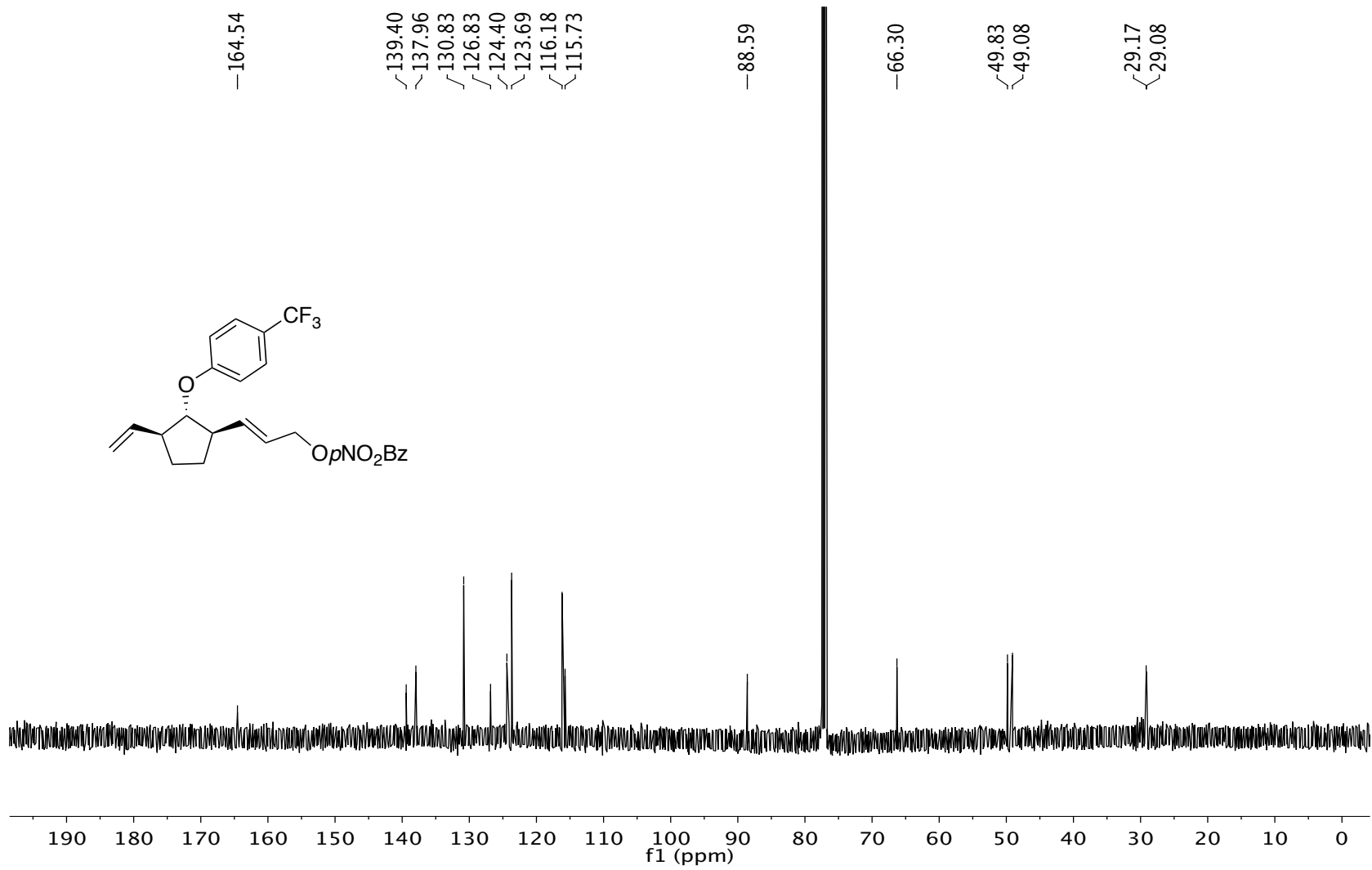


Figure S36. ^{13}C NMR (125 MHz, CDCl_3) of S5.