

Supporting Information

Efficient Tandem Addition/Cyclization for Access to 2,4-Diarylquinazolines via Catalytic Carbopalladation of Nitriles

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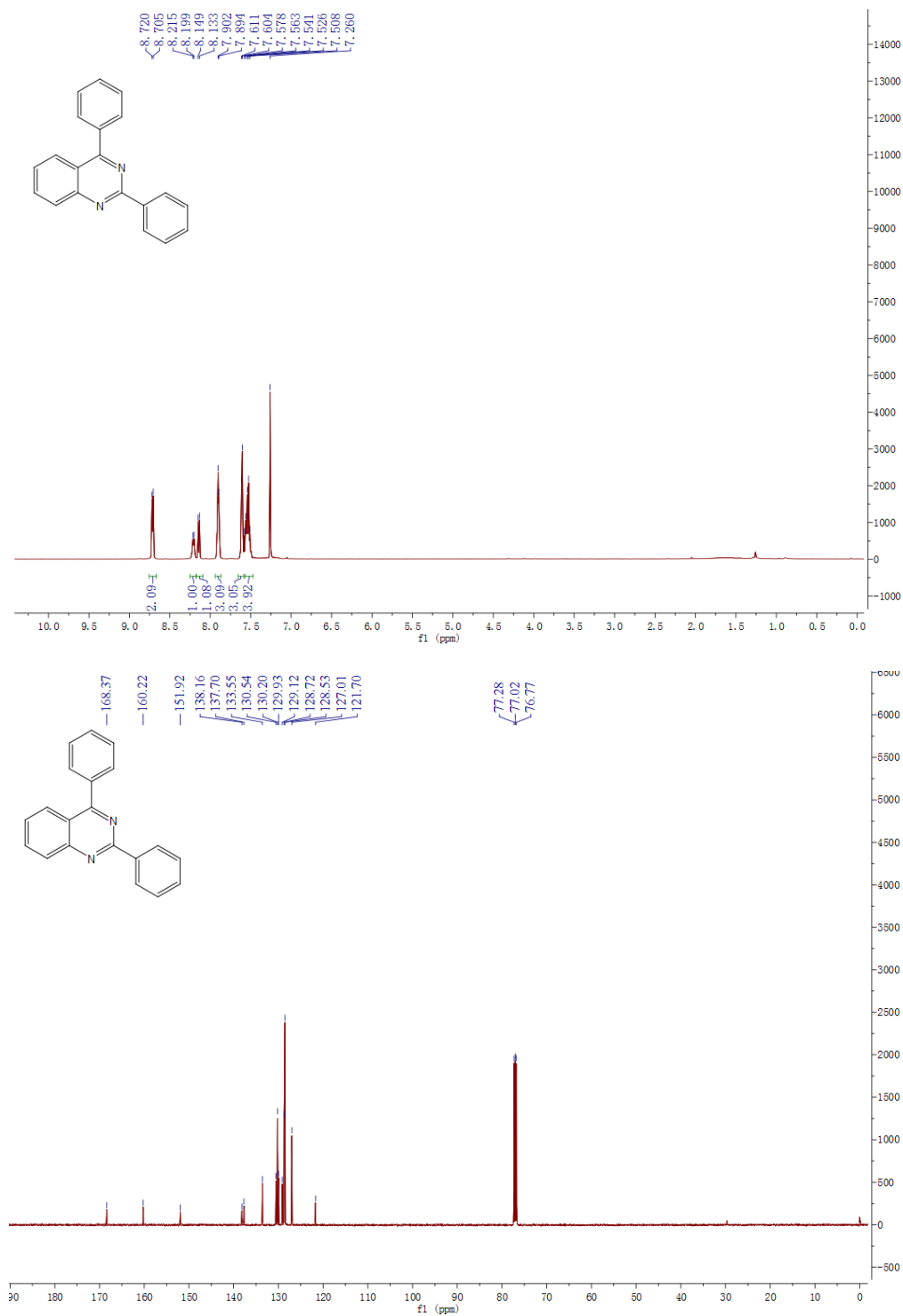


Figure S1. ¹H NMR of **3a** (500 MHz, CDCl₃) and ¹³C NMR of **3a** (125 MHz, CDCl₃).

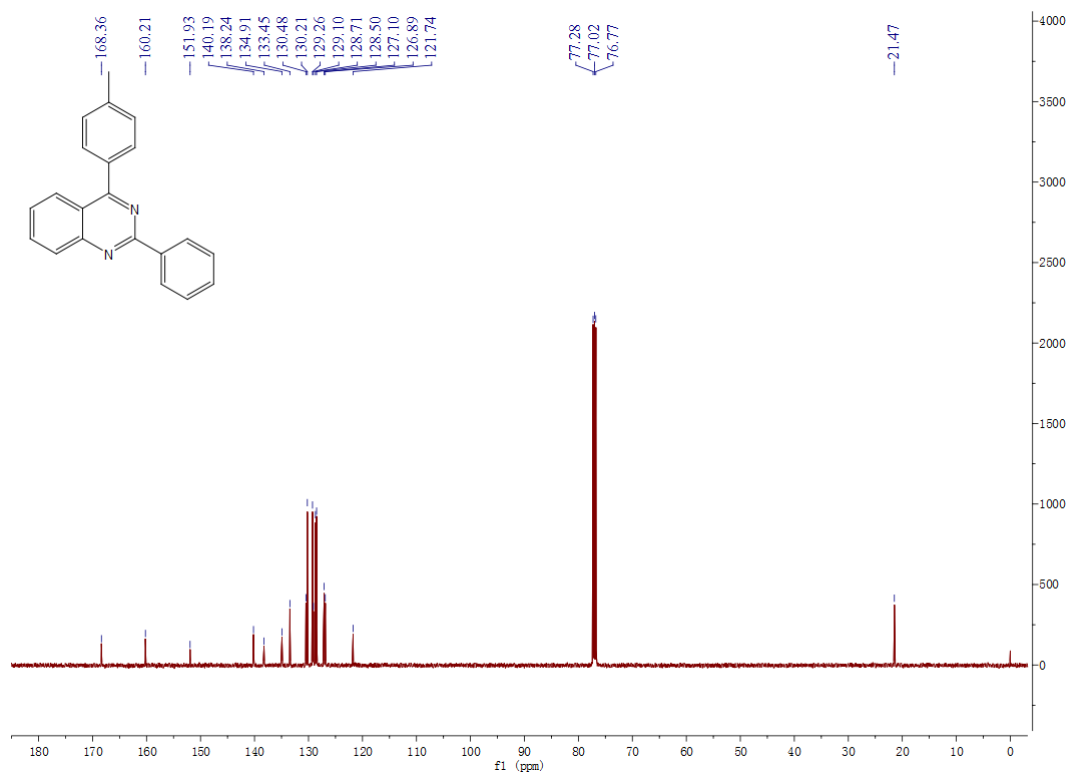
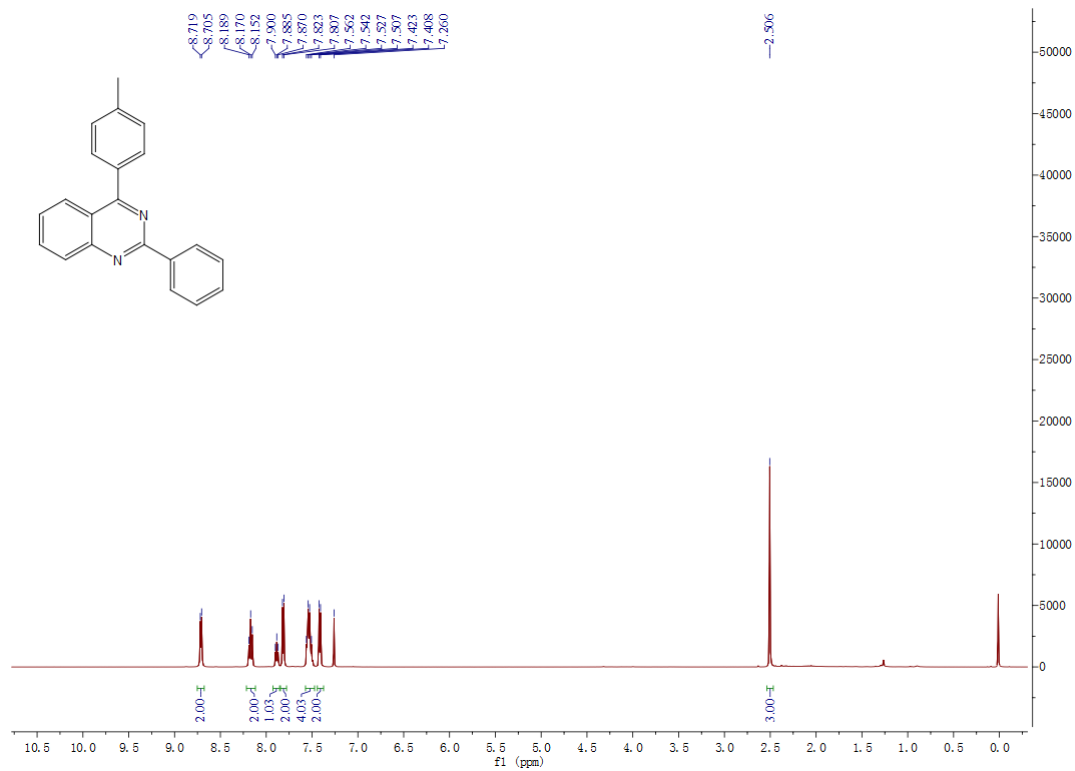


Figure S2. ¹H NMR of **3b** (500 MHz, CDCl₃) and ¹³C NMR of **3b** (125 MHz, CDCl₃).

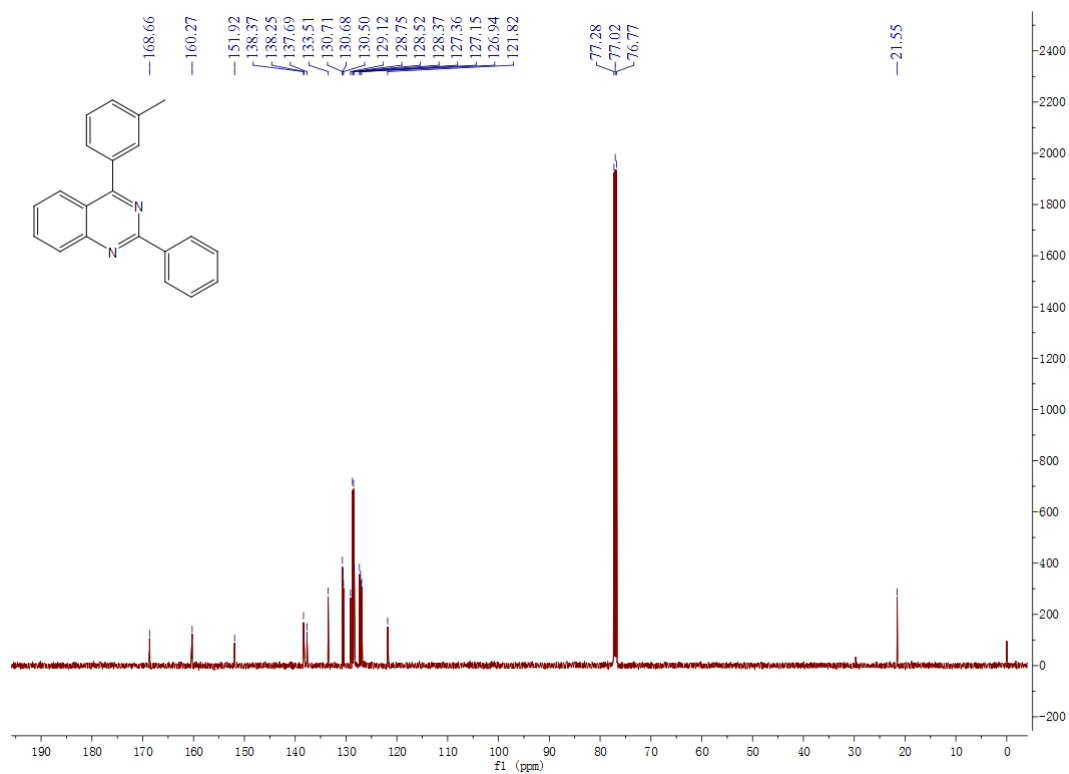
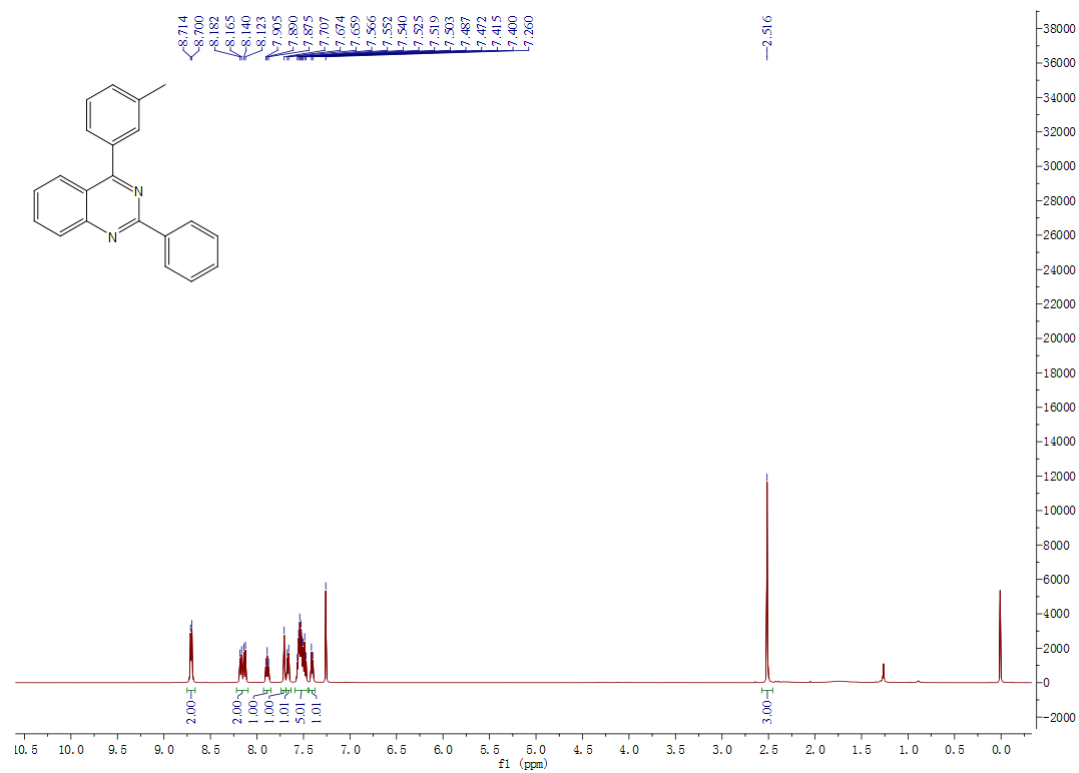


Figure S3. ¹H NMR of **3c** (500 MHz, CDCl₃) and ¹³C NMR of **3c** (125 MHz, CDCl₃).

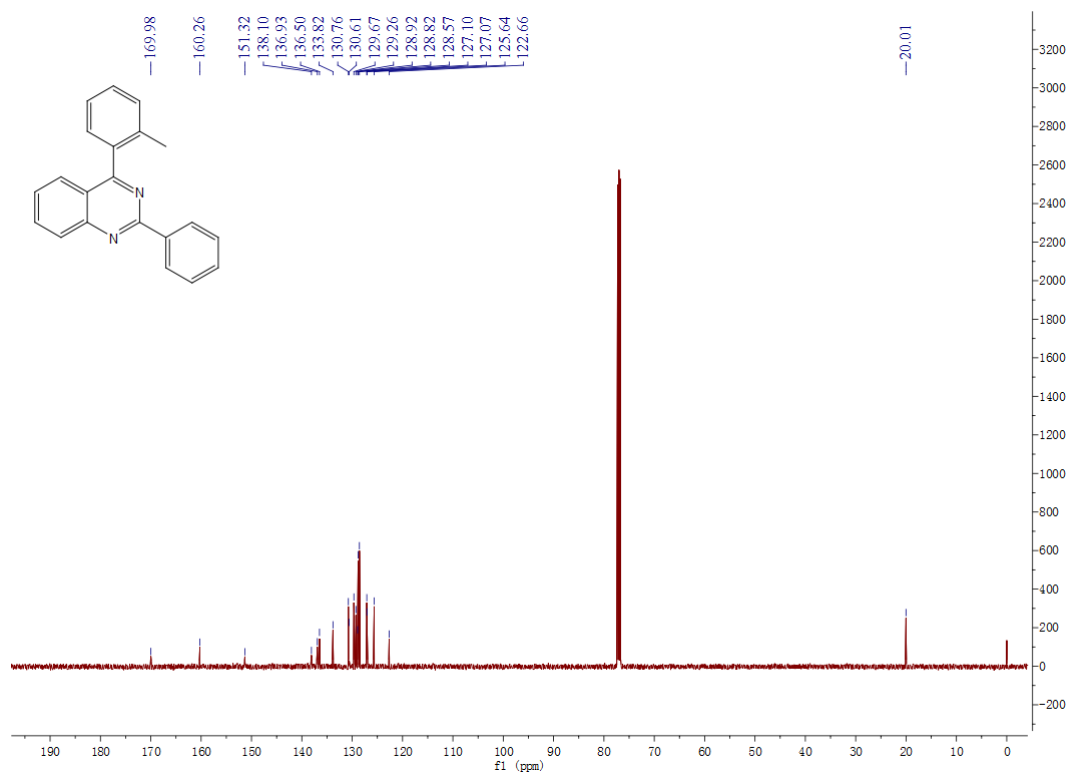
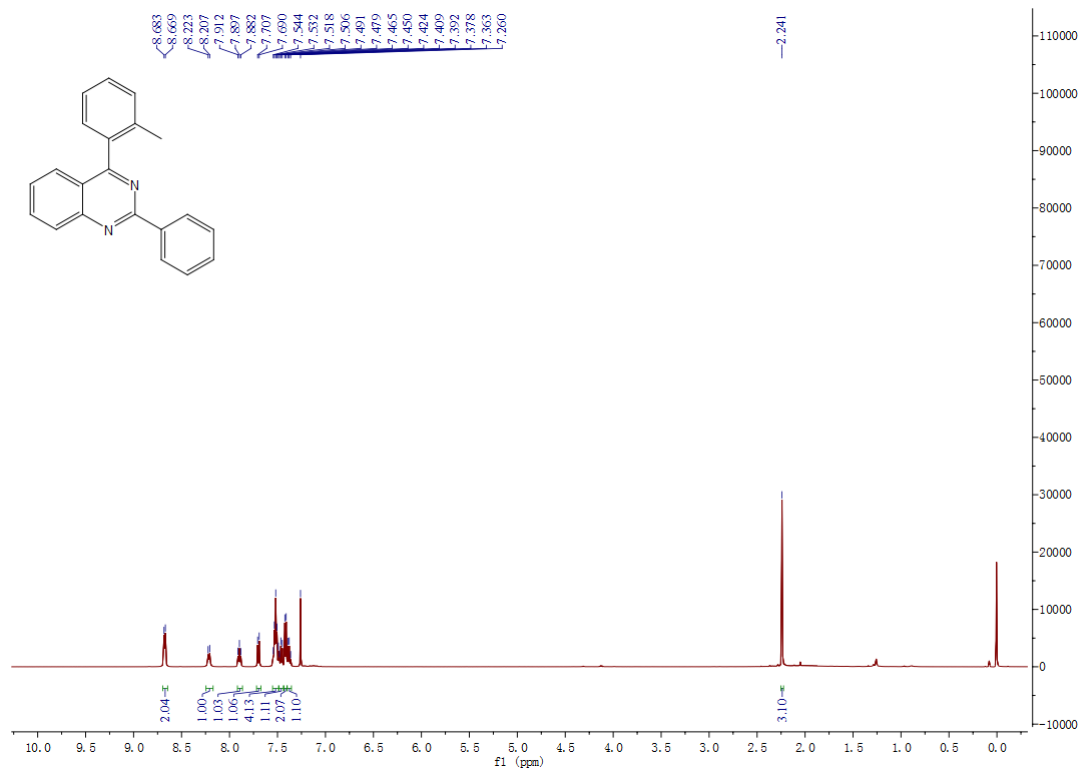


Figure S4. ¹H NMR of **3d** (500 MHz, CDCl₃) and ¹³C NMR of **3d** (125 MHz, CDCl₃).

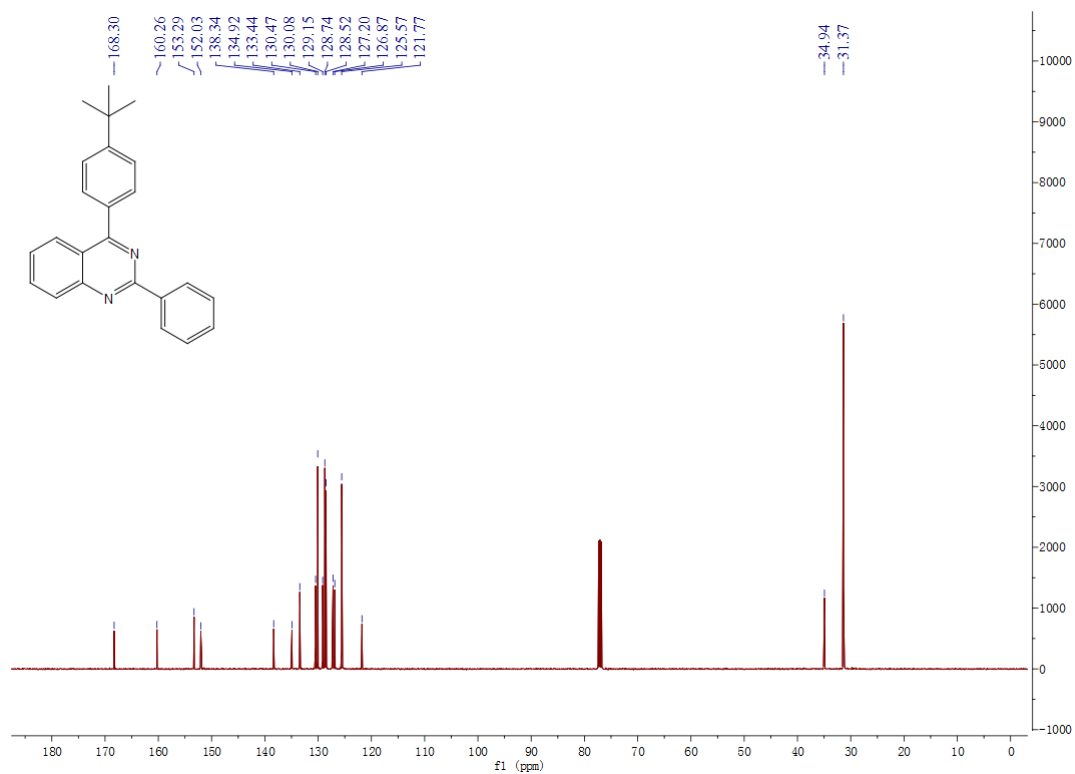
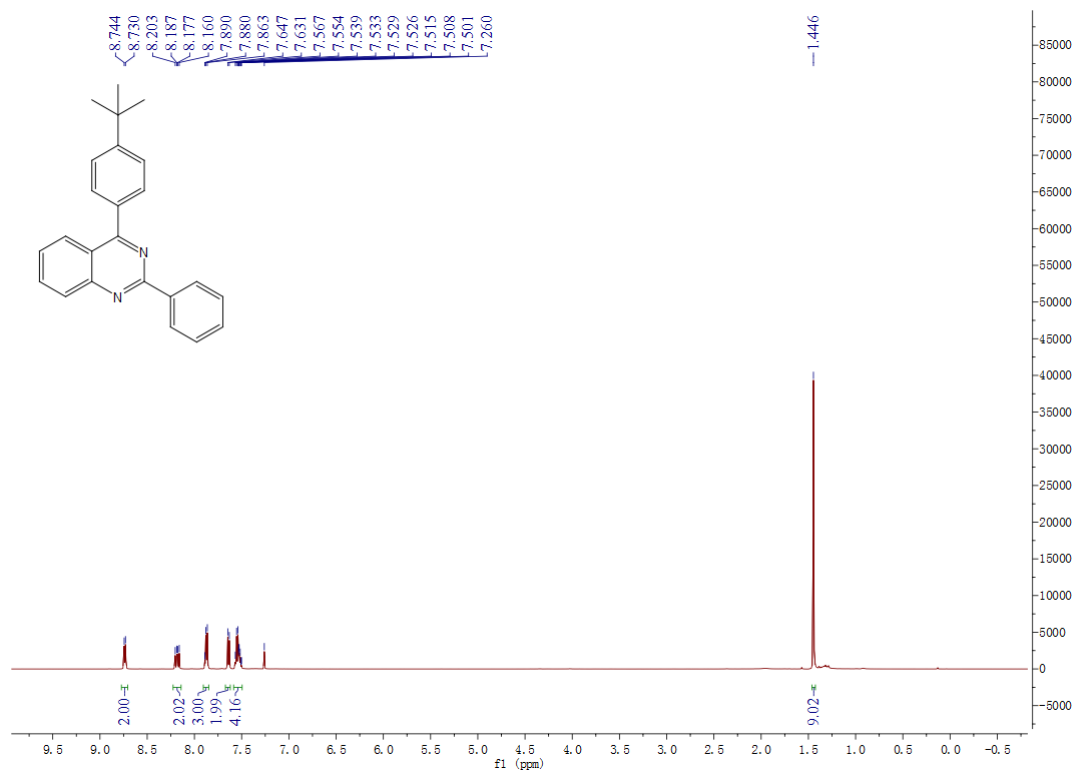


Figure S5. ¹H NMR of **3e** (500 MHz, CDCl₃) and ¹³C NMR of **3e** (125 MHz, CDCl₃).

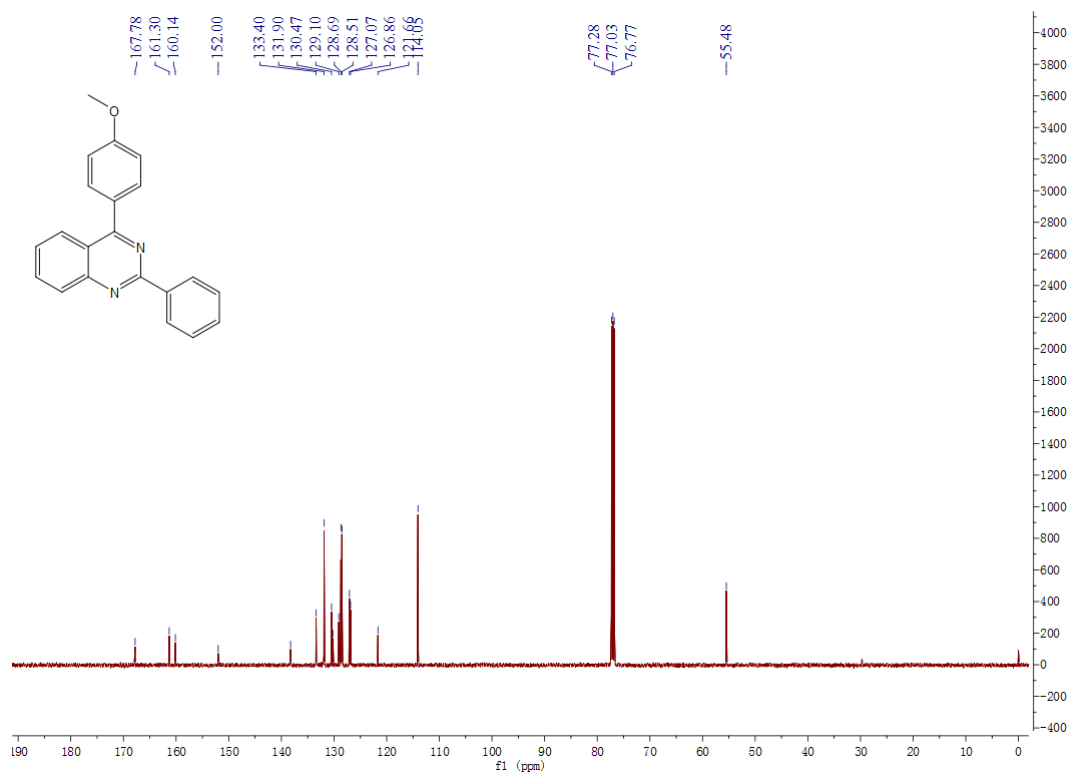
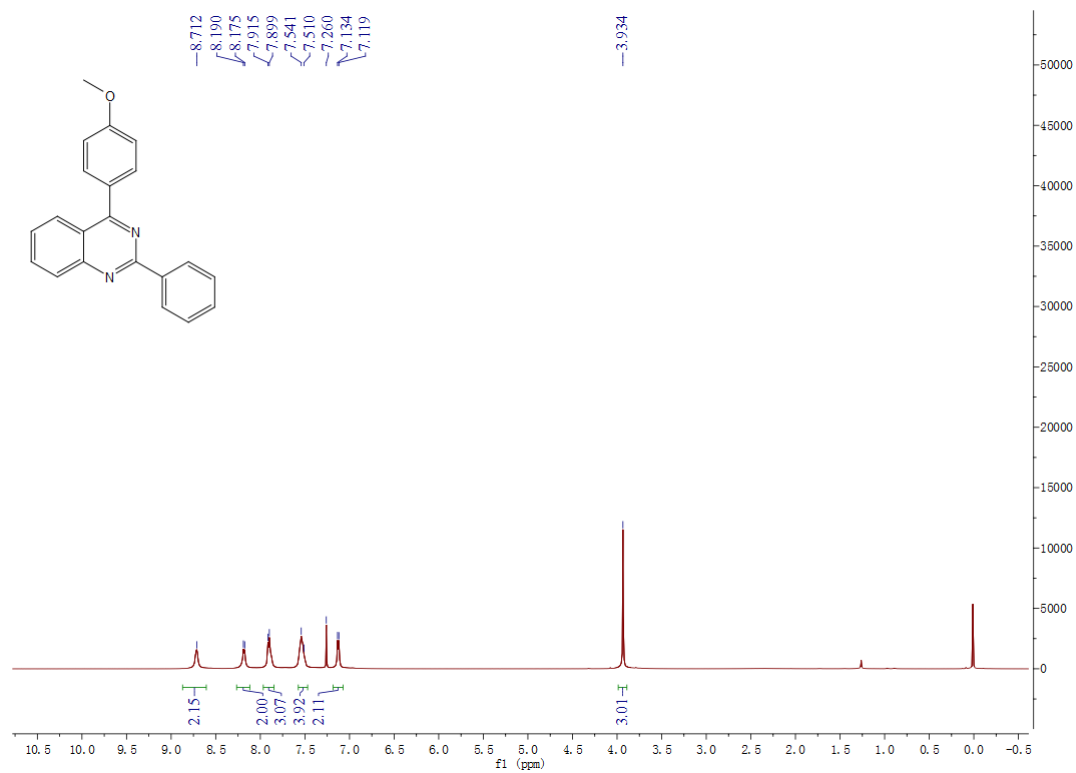


Figure S6. ¹H NMR of **3f** (500 MHz, CDCl₃) and ¹³C NMR of **3f** (125 MHz, CDCl₃).

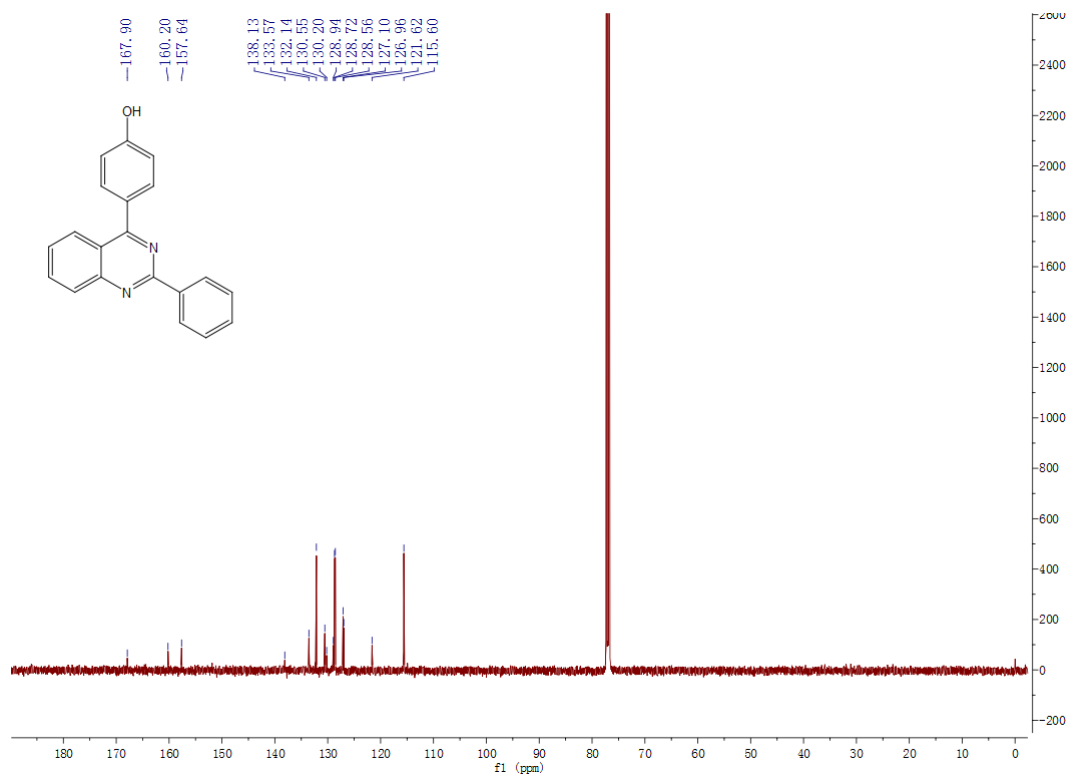
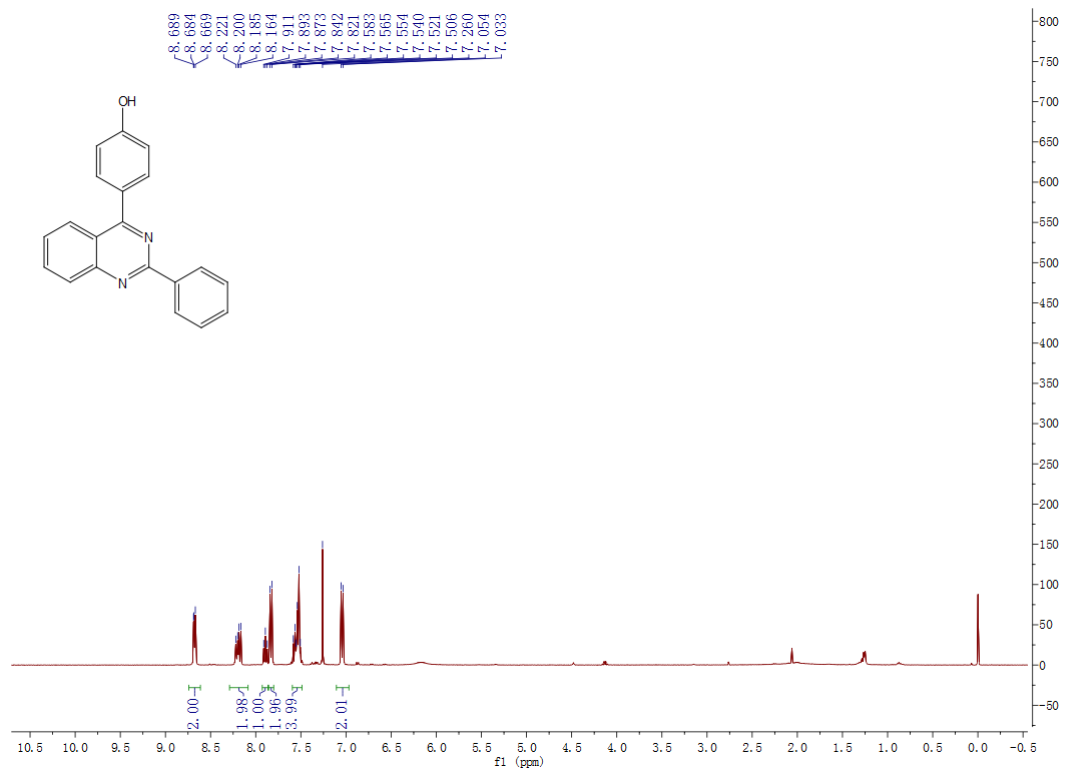


Figure S7. ¹H NMR of **3g** (500 MHz, CDCl₃) and ¹³C NMR of **3g** (125 MHz, CDCl₃).

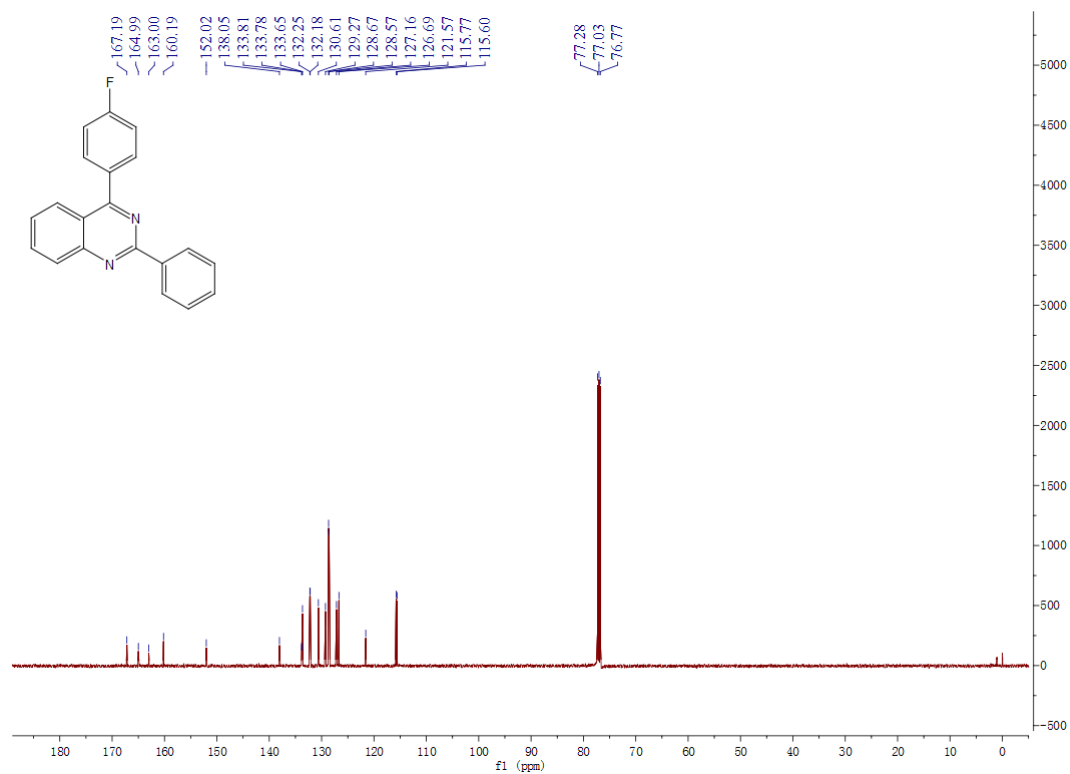
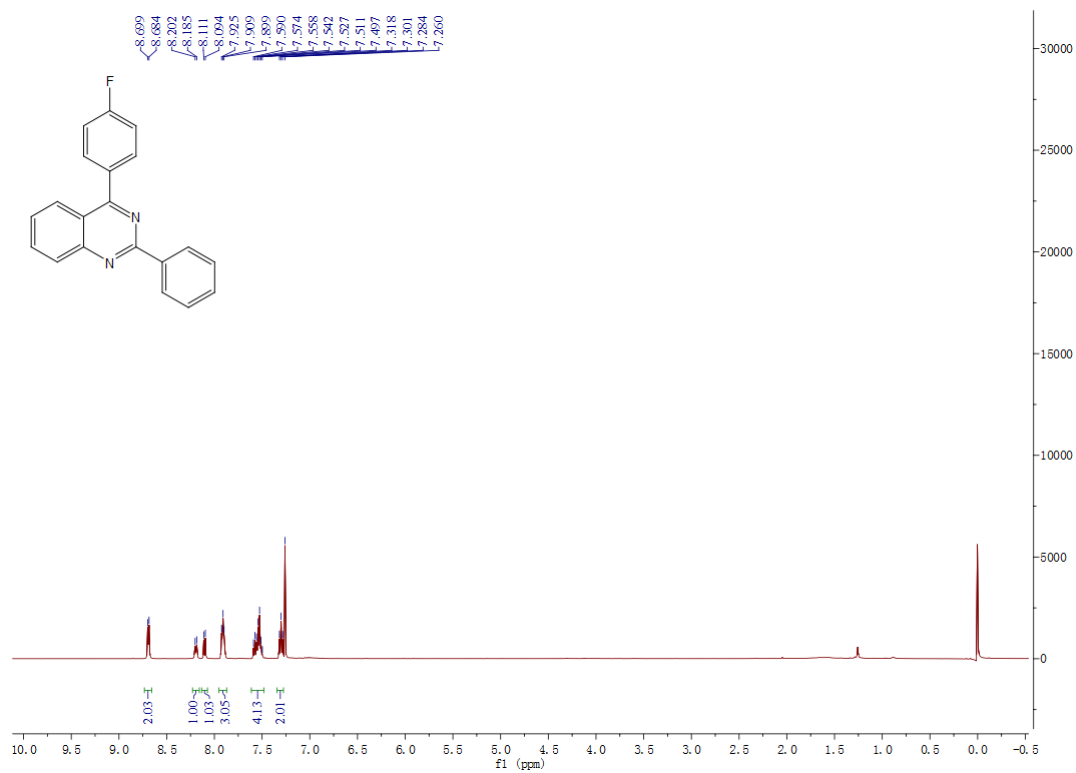


Figure S8. ¹H NMR of **3h** (500 MHz, CDCl₃) and ¹³C NMR of **3h** (125 MHz, CDCl₃).

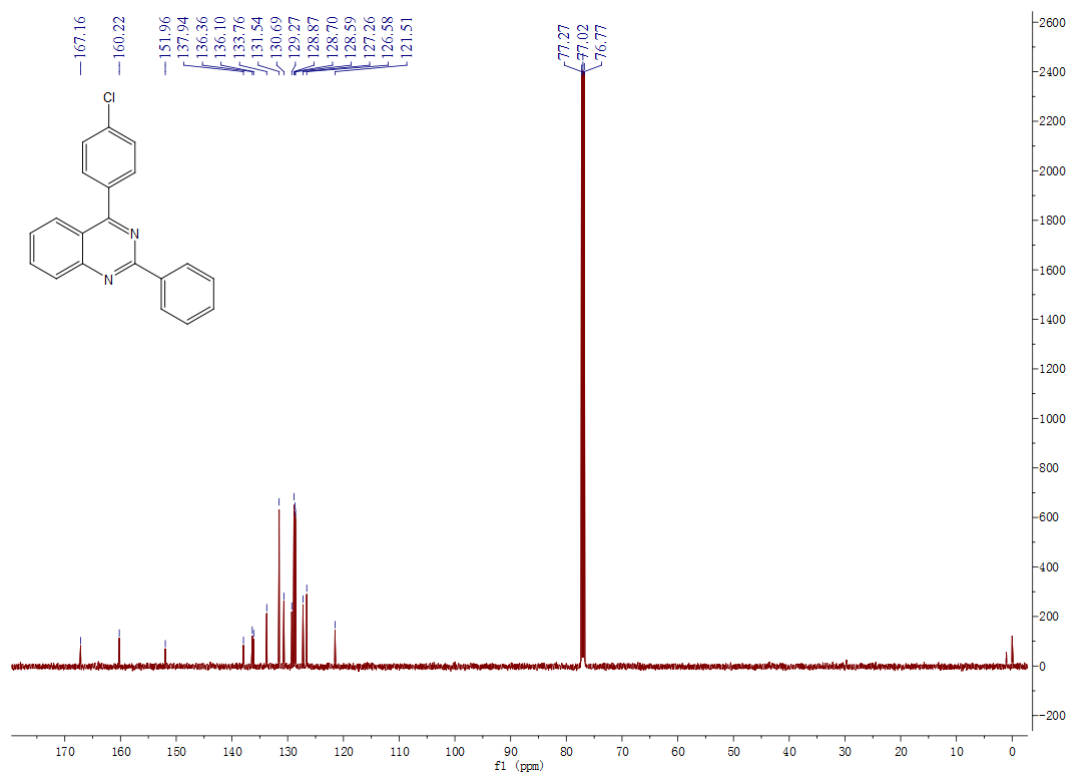
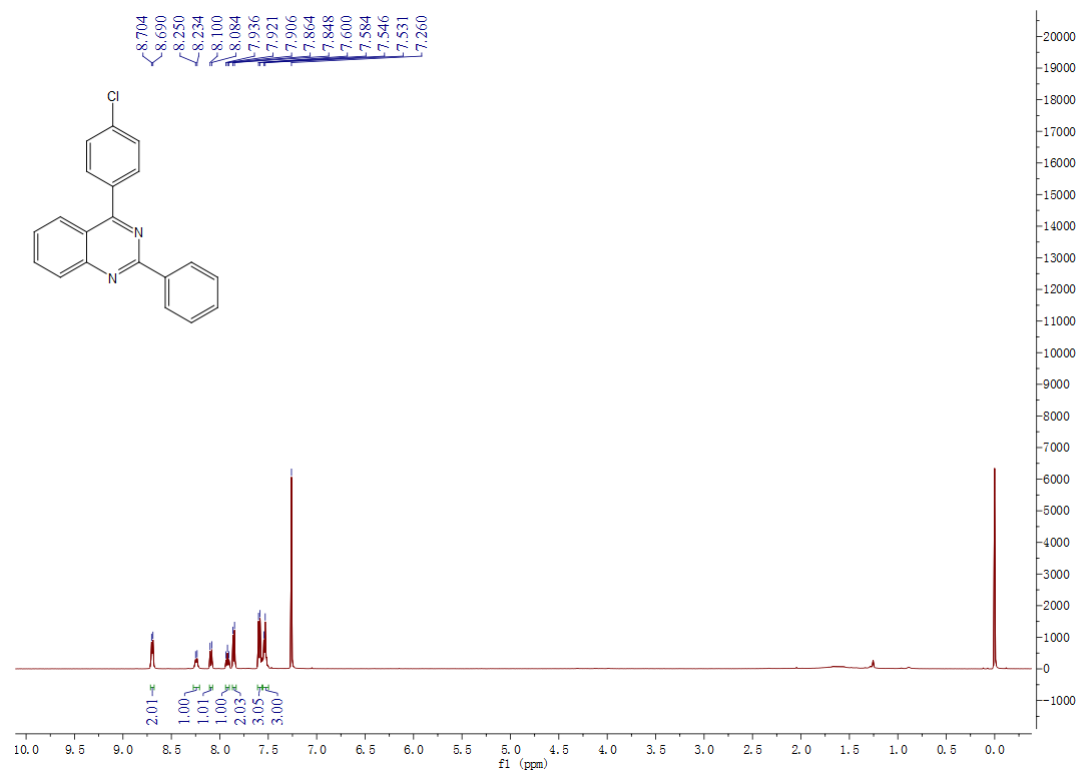


Figure S9. ¹H NMR of **3i** (500 MHz, CDCl₃) and ¹³C NMR of **3i** (125 MHz, CDCl₃).

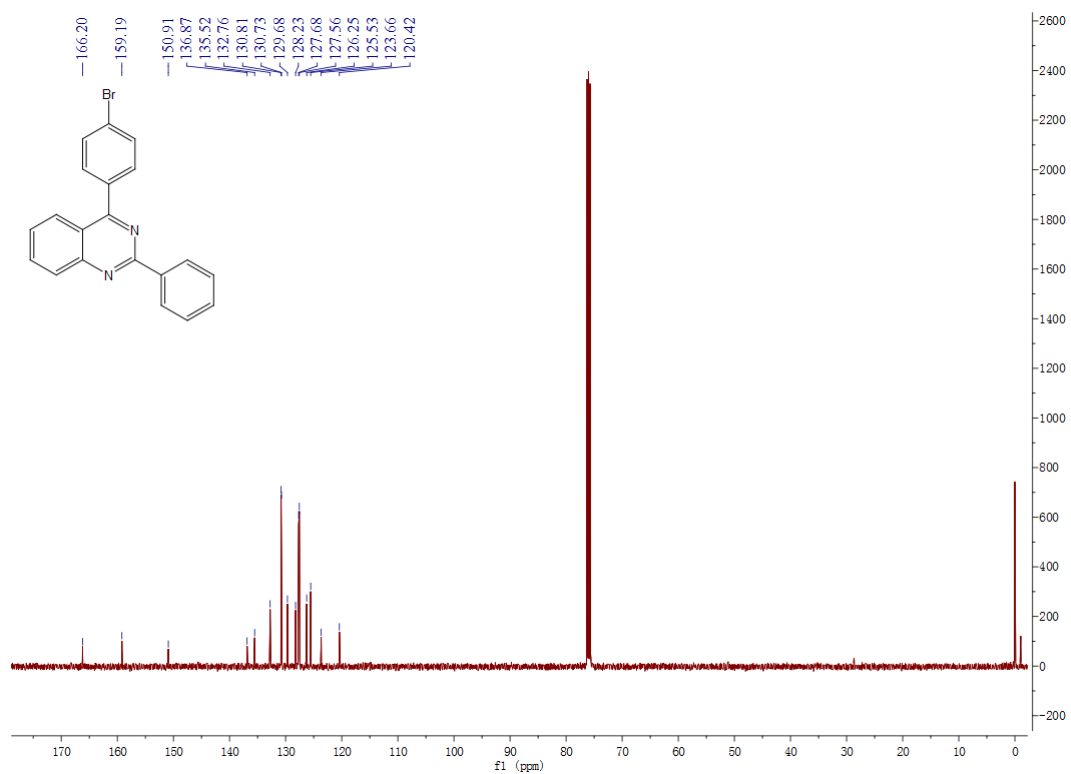
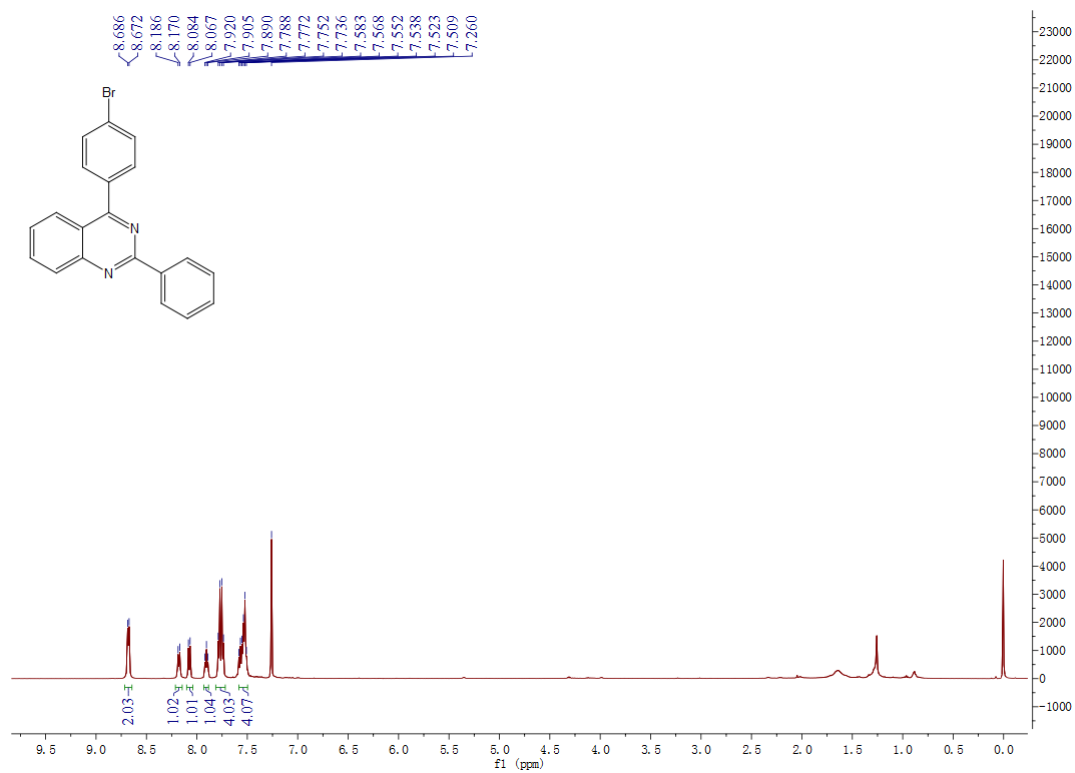


Figure S10. ¹H NMR of **3j** (500 MHz, CDCl₃) and ¹³C NMR of **3j** (125 MHz, CDCl₃).

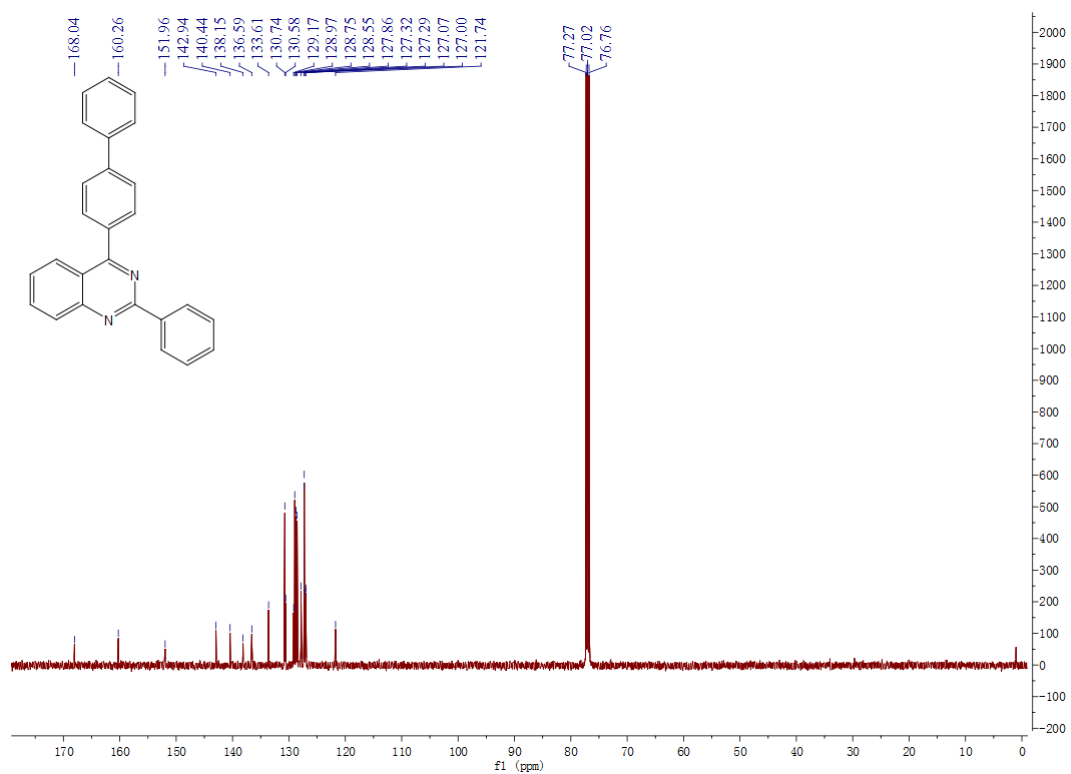
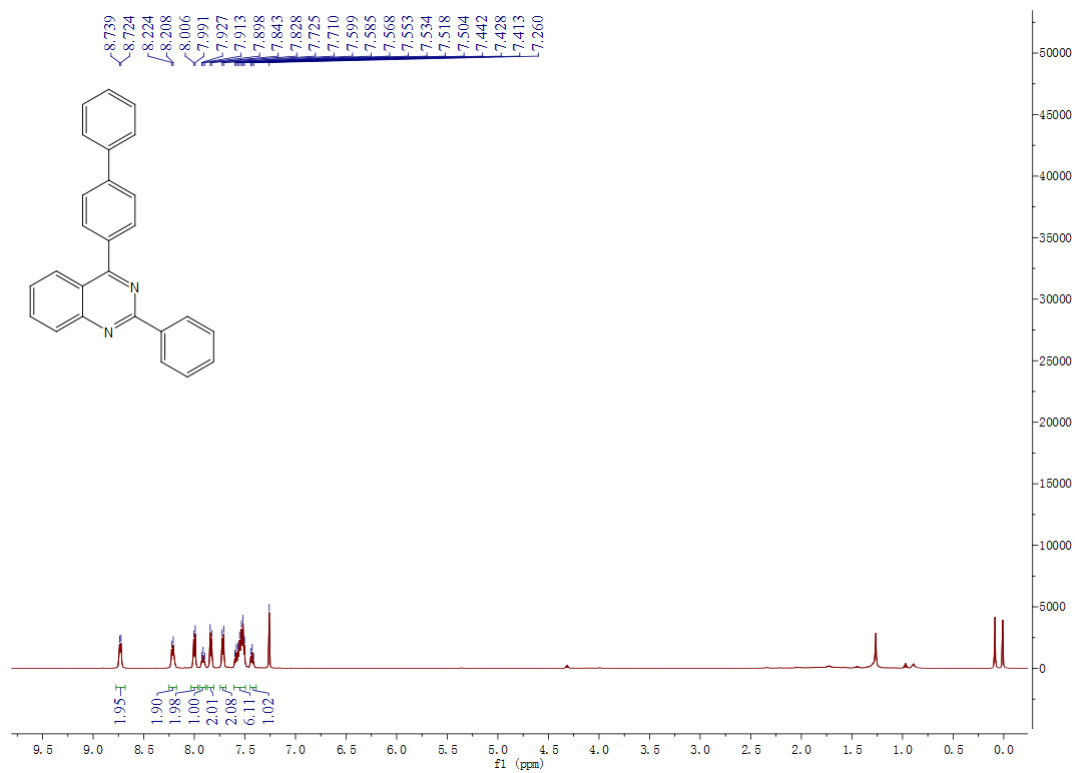


Figure S11. ¹H NMR of **31** (500 MHz, CDCl₃) and ¹³C NMR of **31** (125 MHz, CDCl₃).

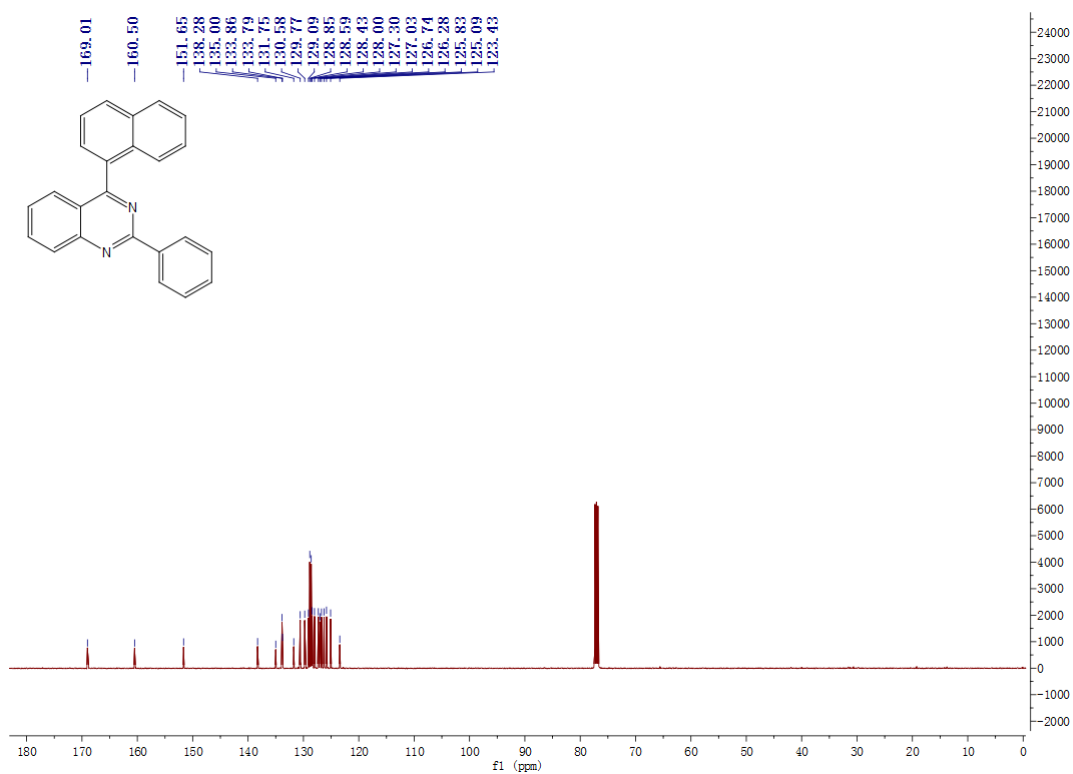
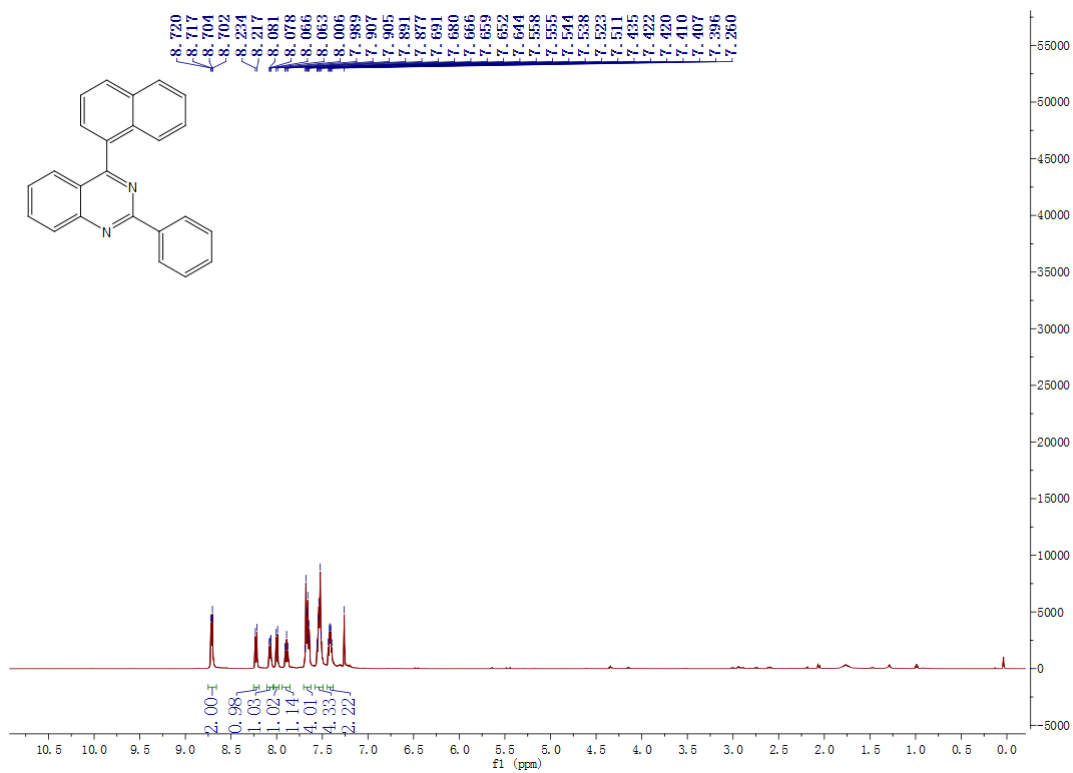


Figure S12. ¹H NMR of **3m** (500 MHz, CDCl₃) and ¹³C NMR of **3m** (125 MHz, CDCl₃).

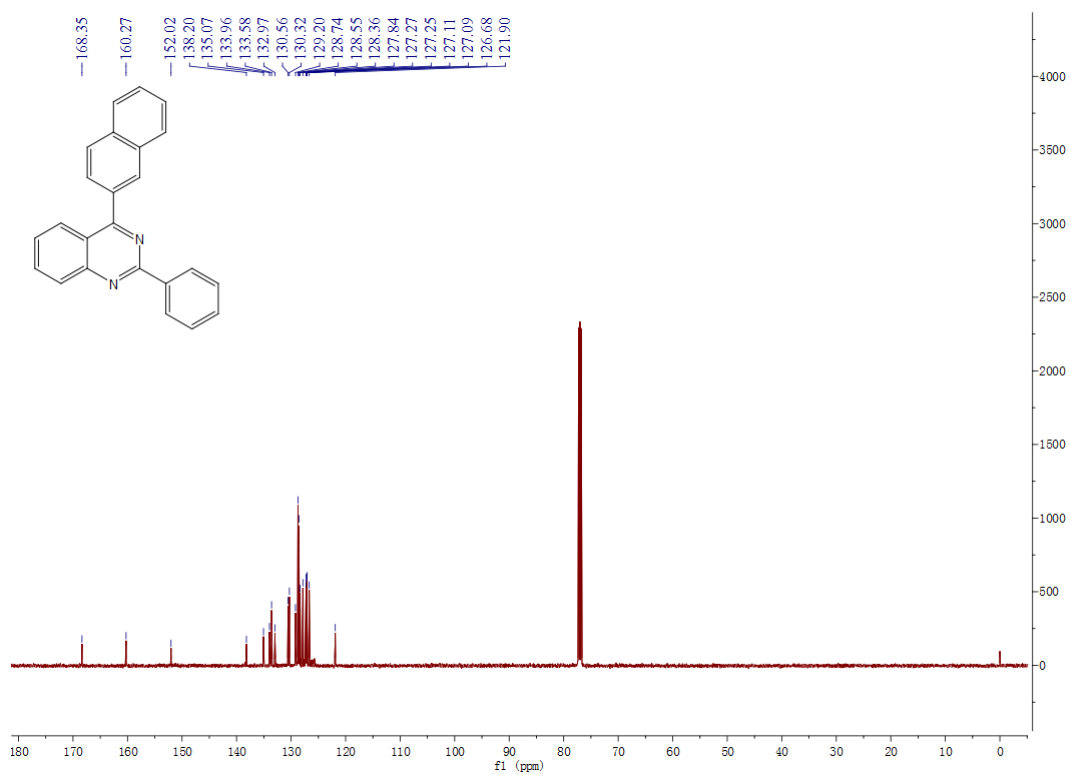
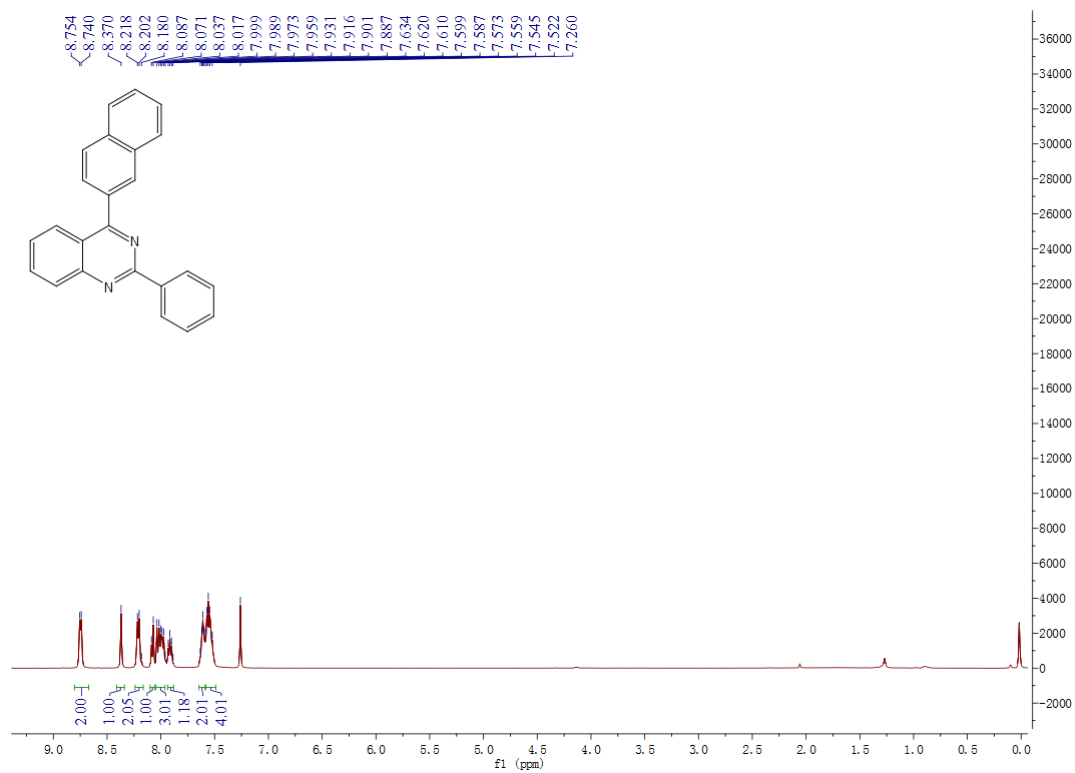


Figure S13. $^1\text{H NMR}$ of **3n** (500 MHz, CDCl_3) and $^{13}\text{C NMR}$ of **3n** (125 MHz, CDCl_3).

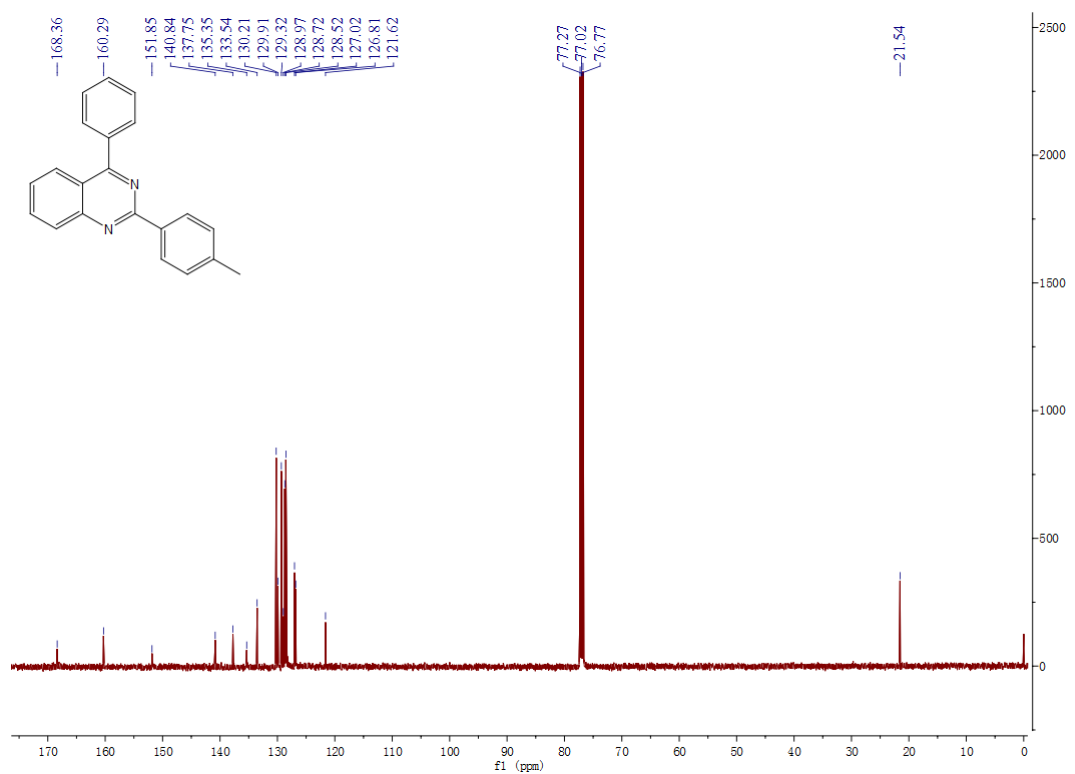
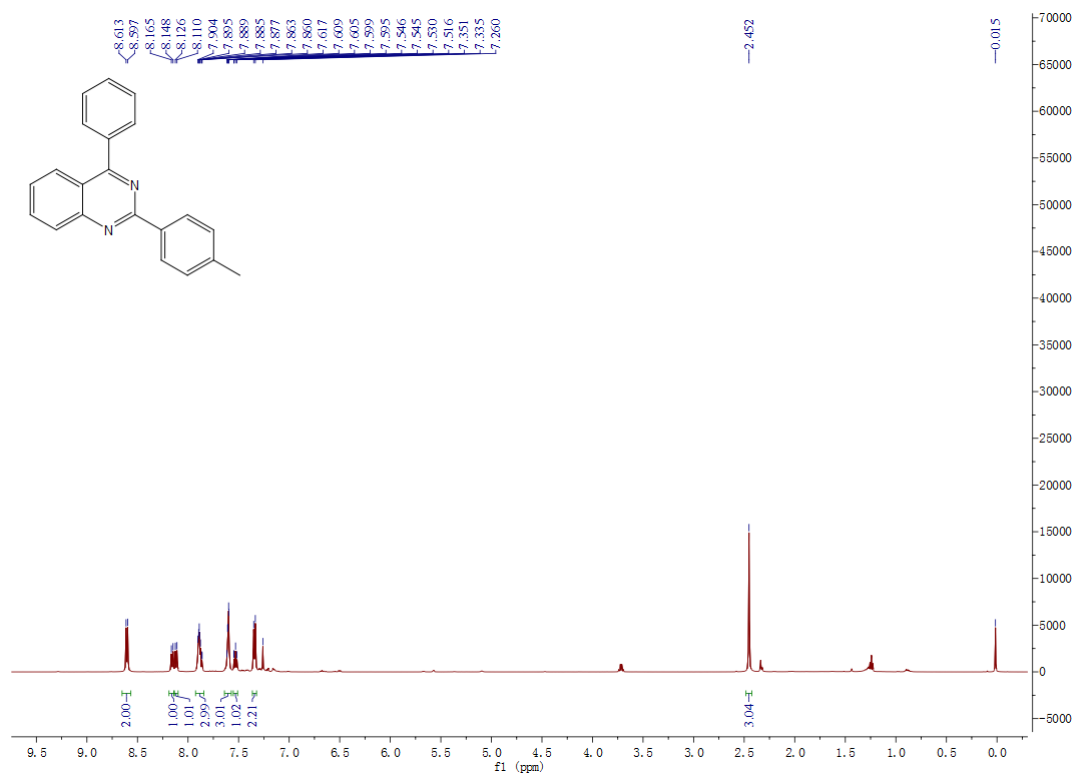


Figure S14. ¹H NMR of **3o** (500 MHz, CDCl₃) and ¹³C NMR of **3o** (125 MHz, CDCl₃).

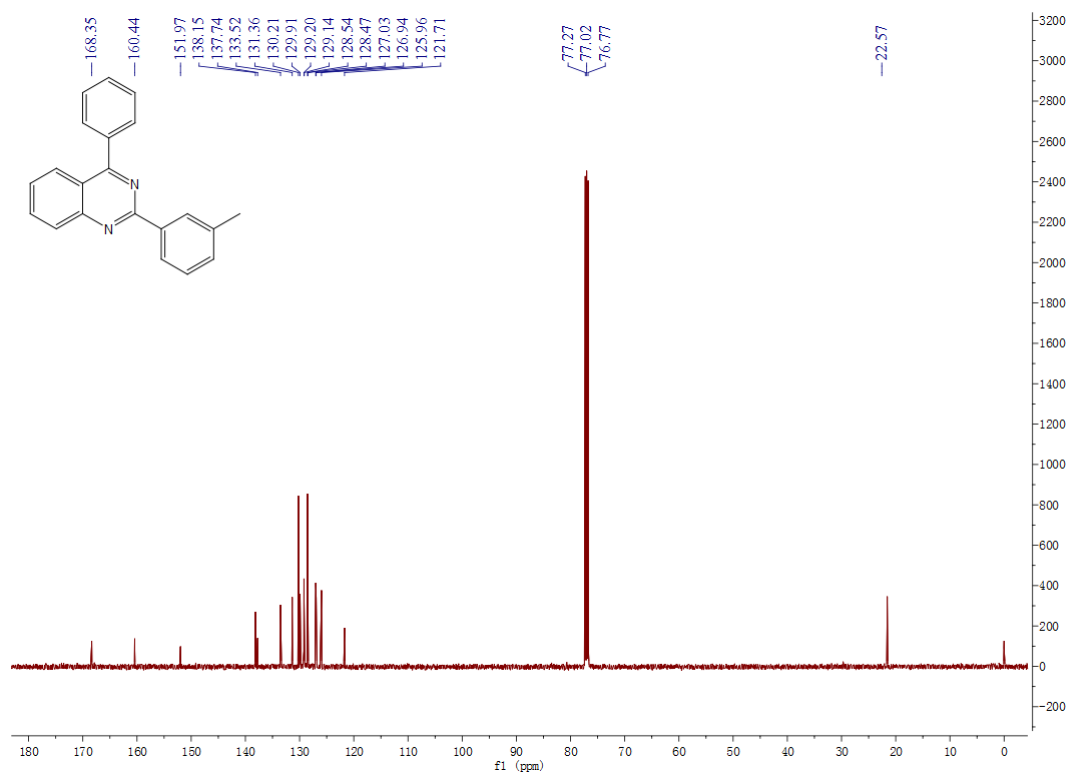
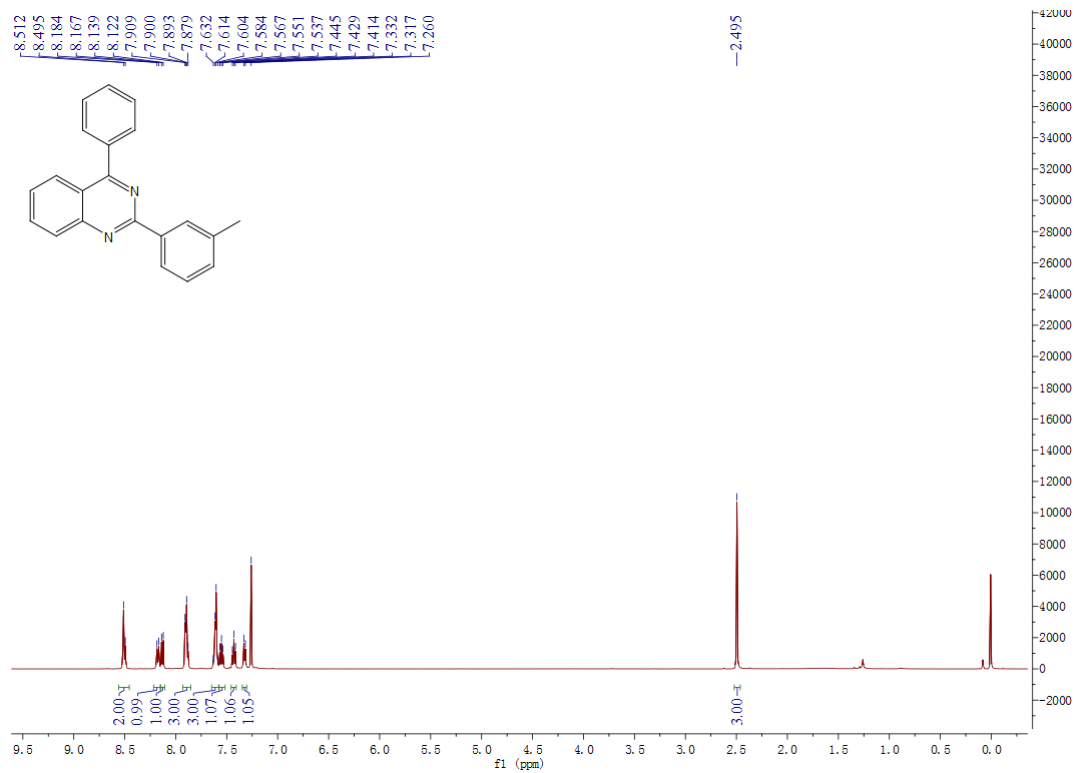


Figure S15. ¹H NMR of **3p** (500 MHz, CDCl₃) and ¹³C NMR of **3p** (125 MHz, CDCl₃).

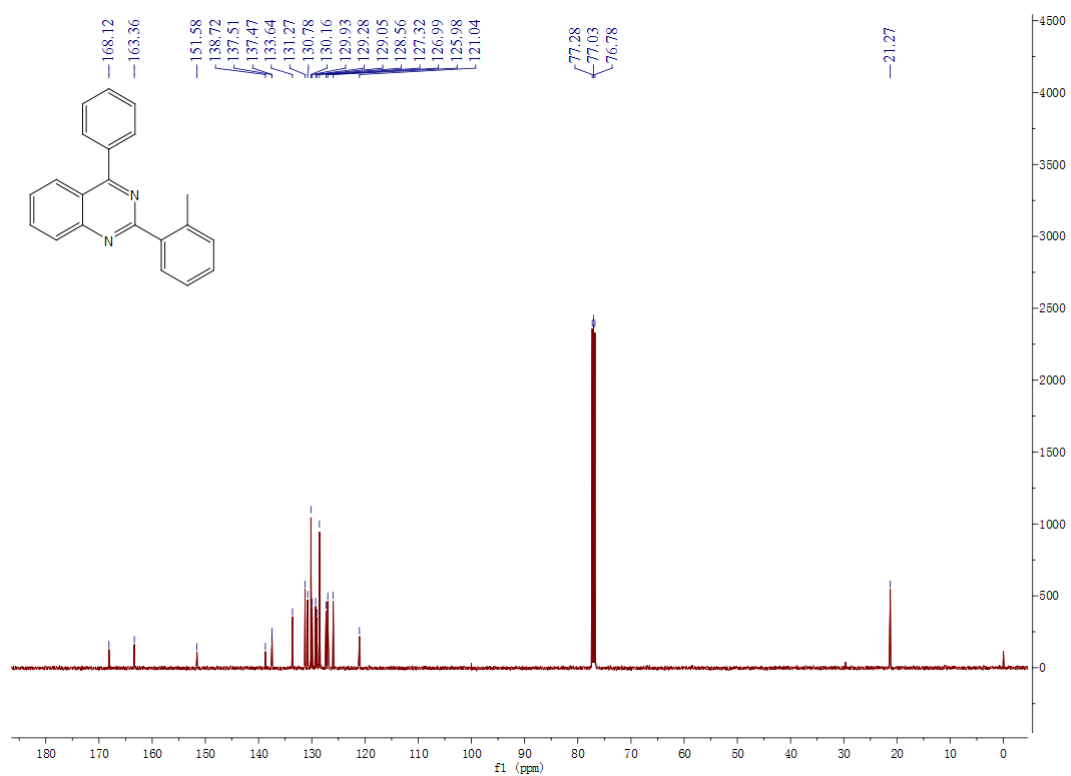
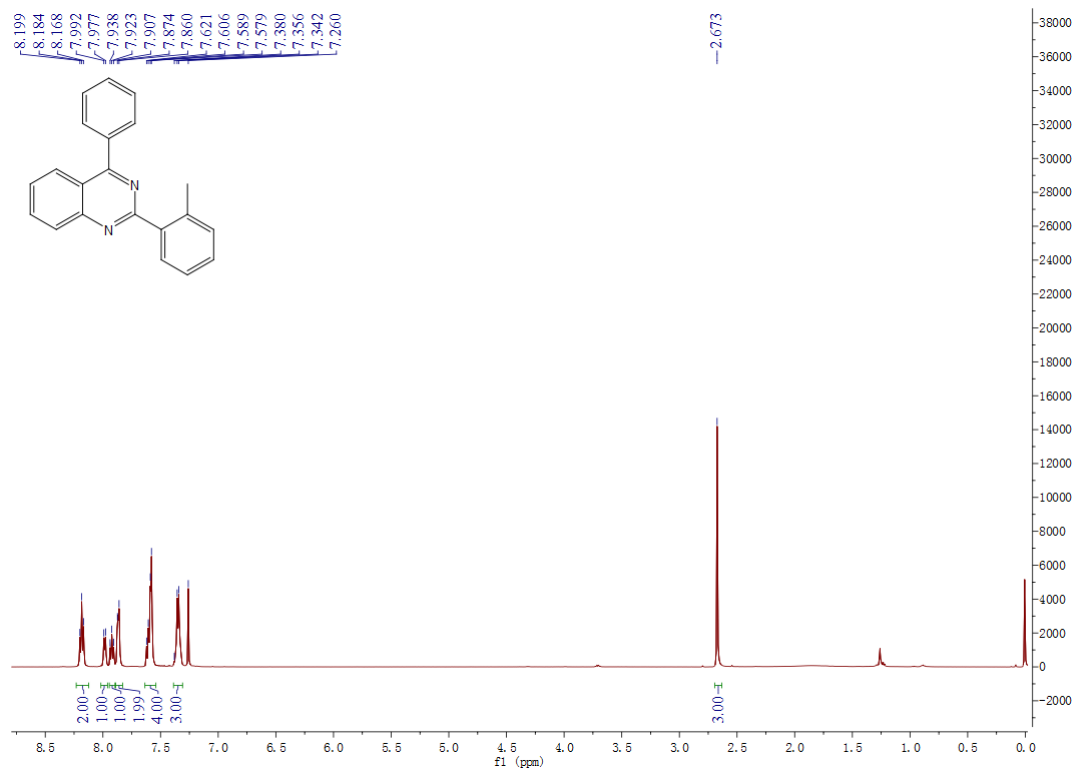


Figure S16. ¹H NMR of **3q** (500 MHz, CDCl₃) and ¹³C NMR of **3q** (125 MHz, CDCl₃).

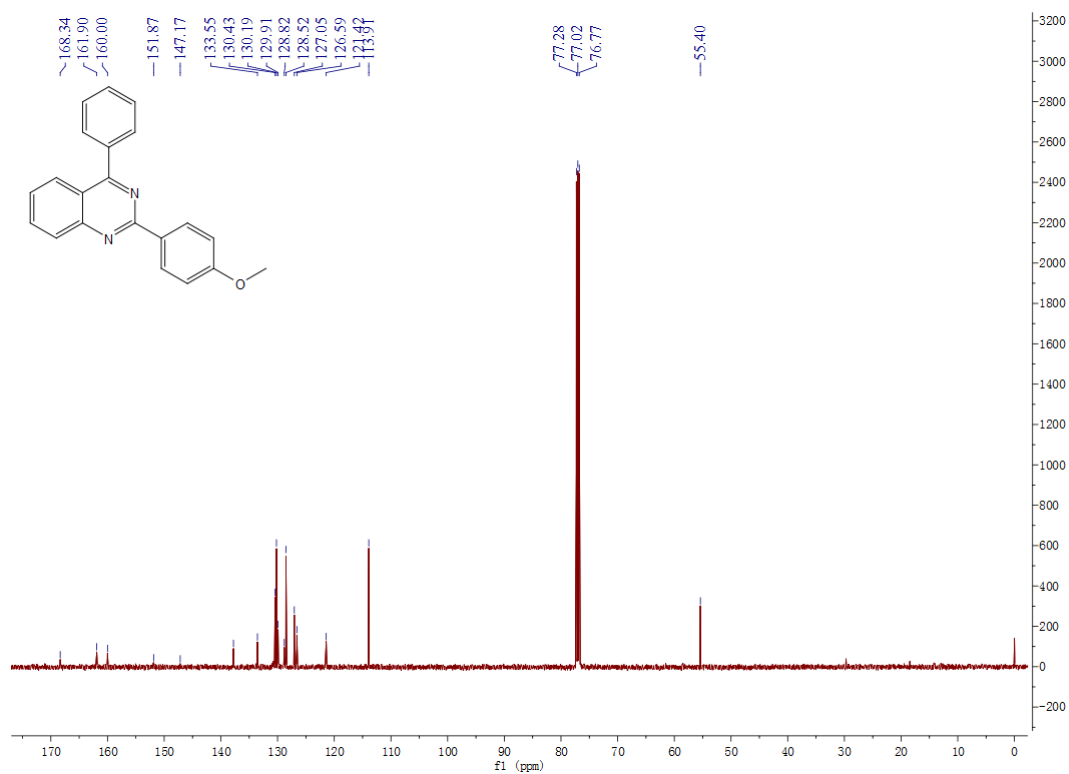
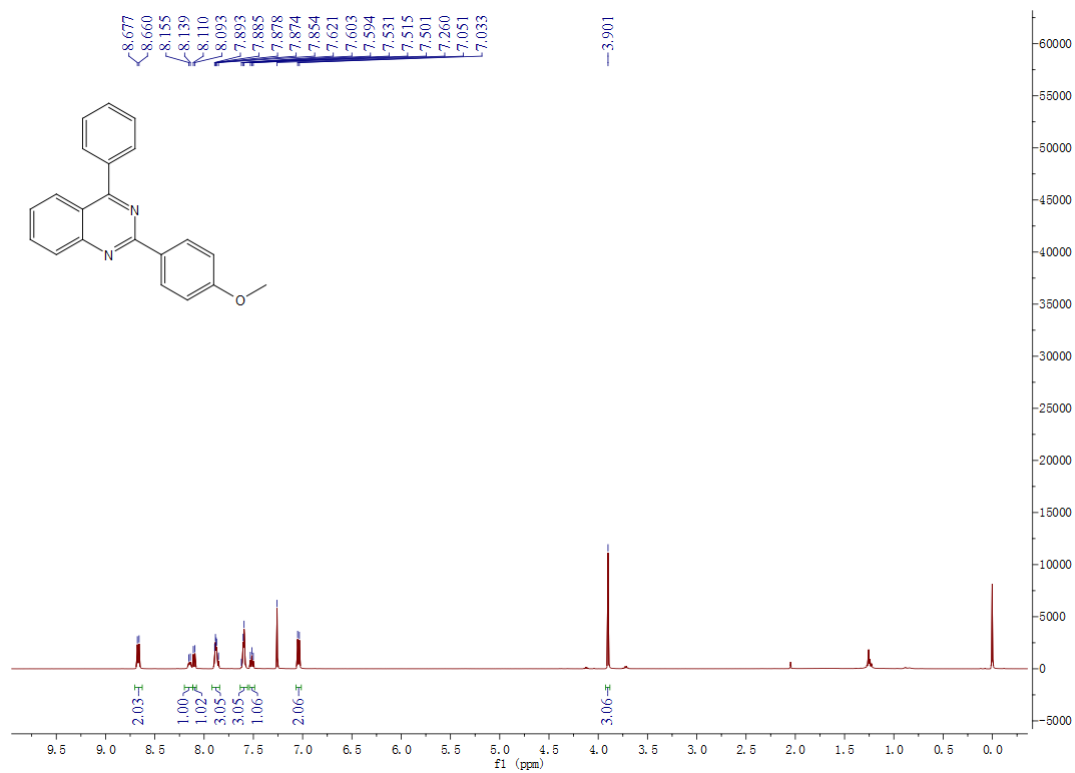


Figure S17. ¹H NMR of **3r** (500 MHz, CDCl₃) and ¹³C NMR of **3r** (125 MHz, CDCl₃).

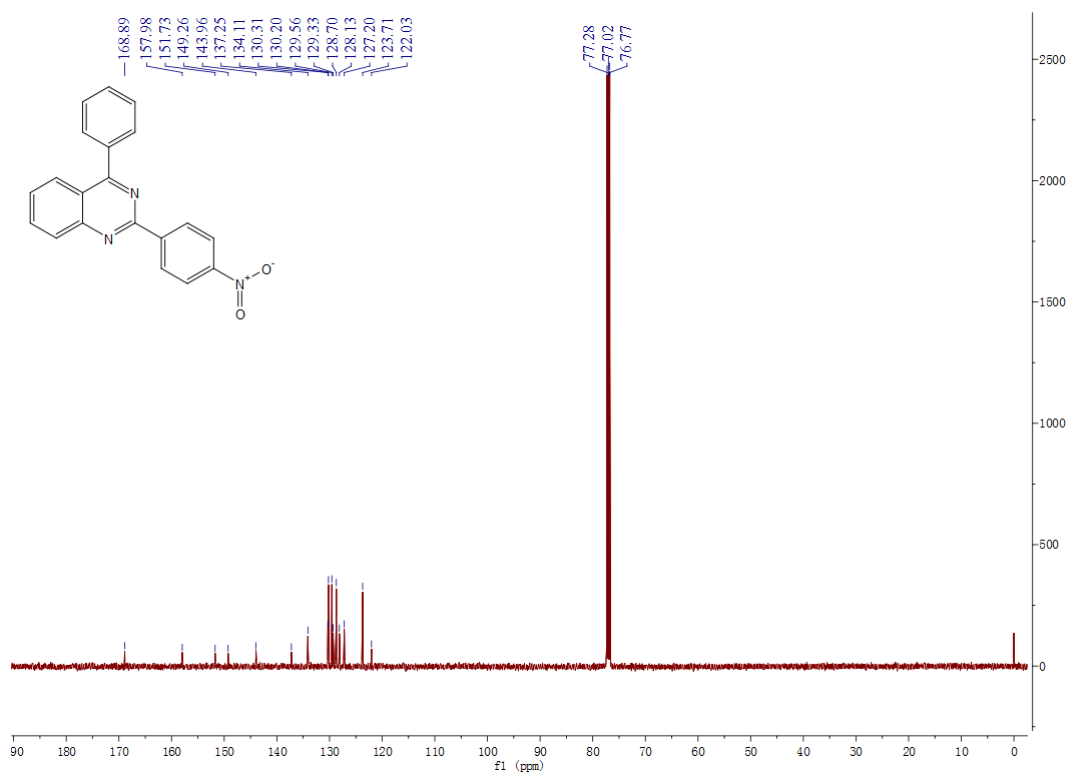
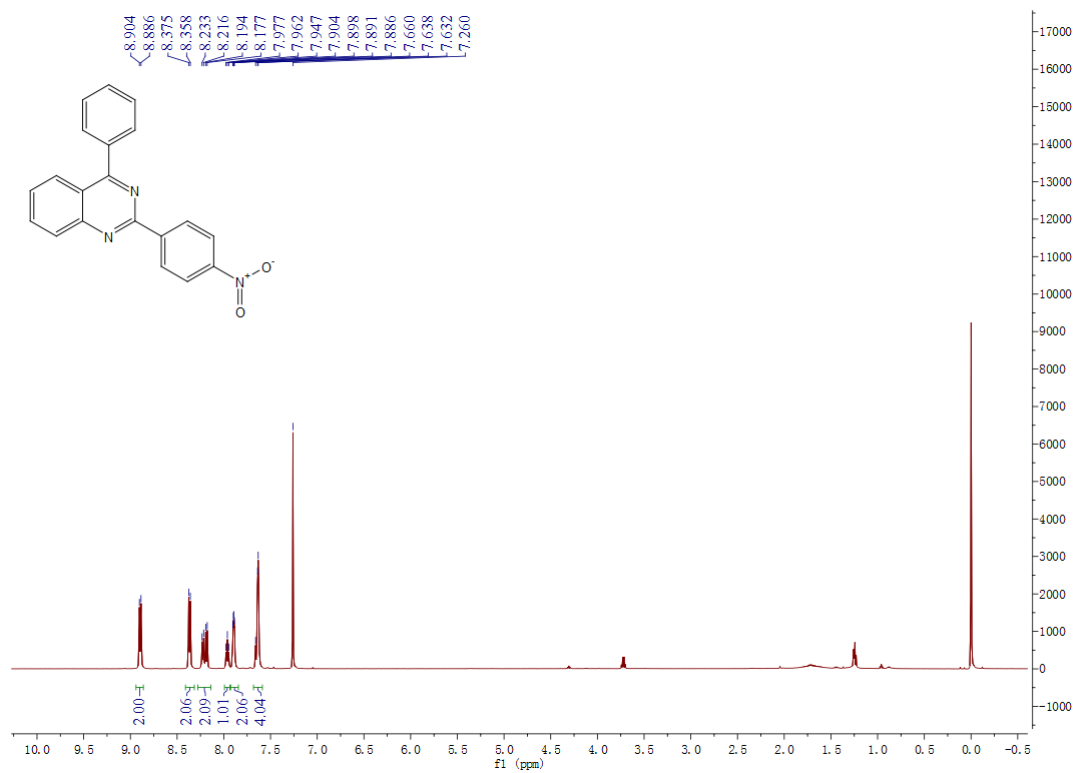


Figure S18. ¹H NMR of **3s** (500 MHz, CDCl₃) and ¹³C NMR of **3s** (125 MHz, CDCl₃).

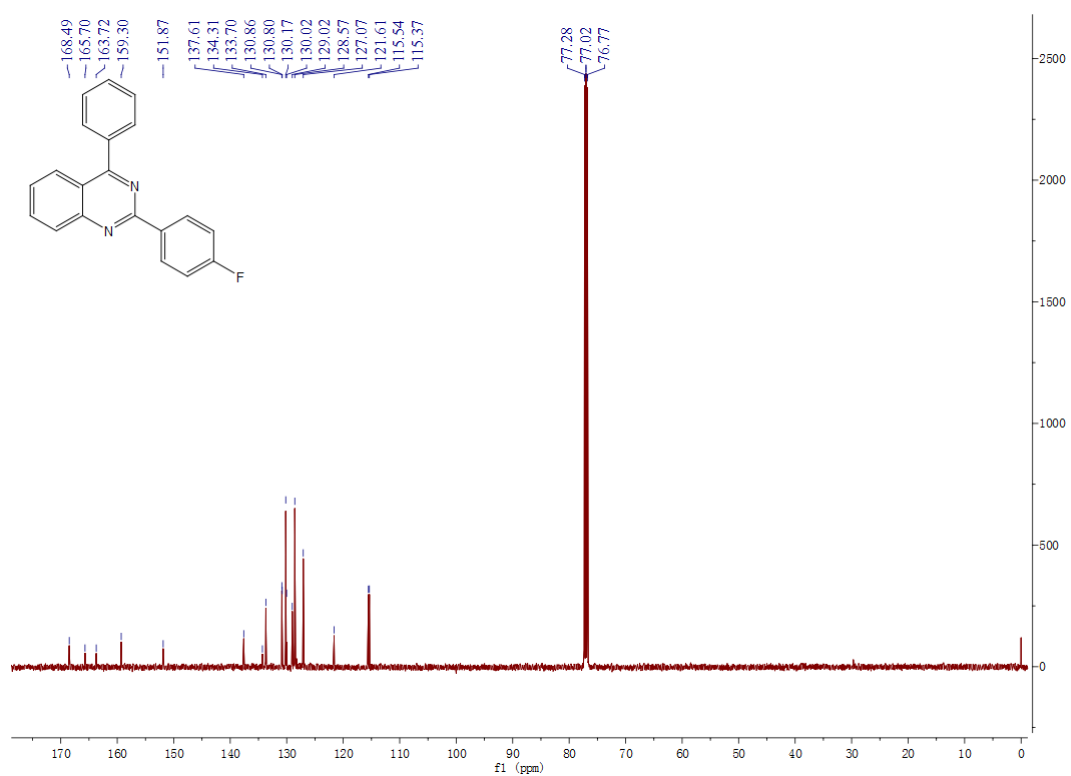
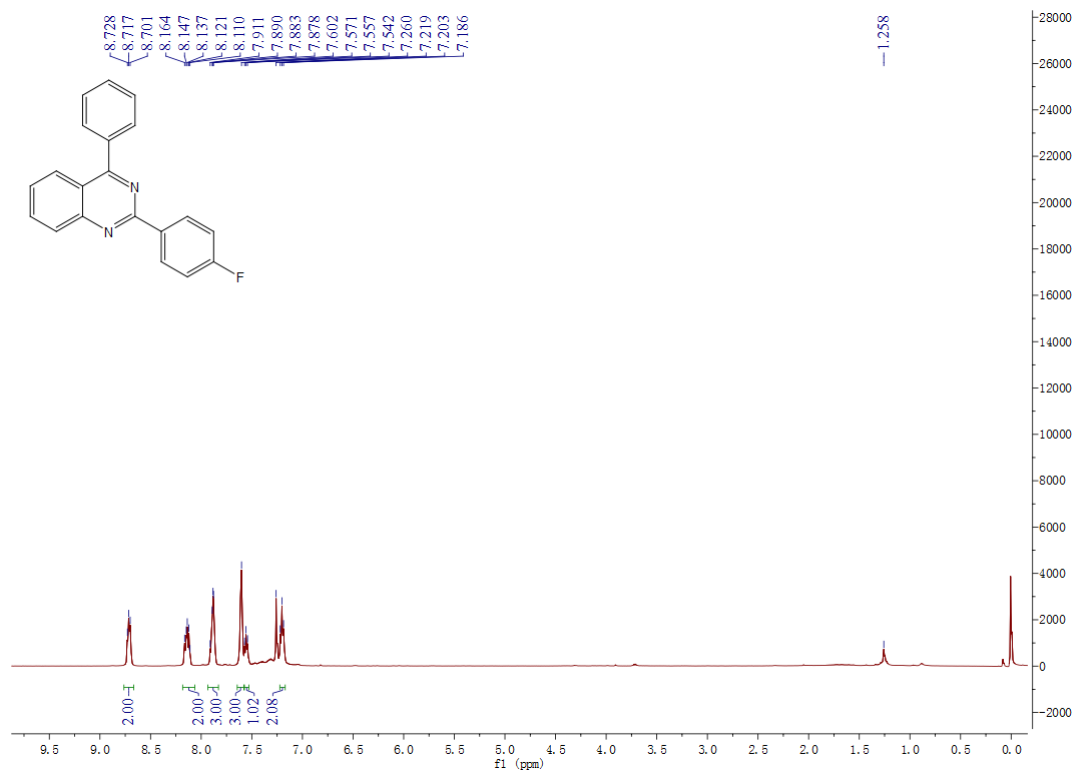


Figure S19. ¹H NMR of **3t** (500 MHz, CDCl₃) and ¹³C NMR of **3t** (125 MHz, CDCl₃).

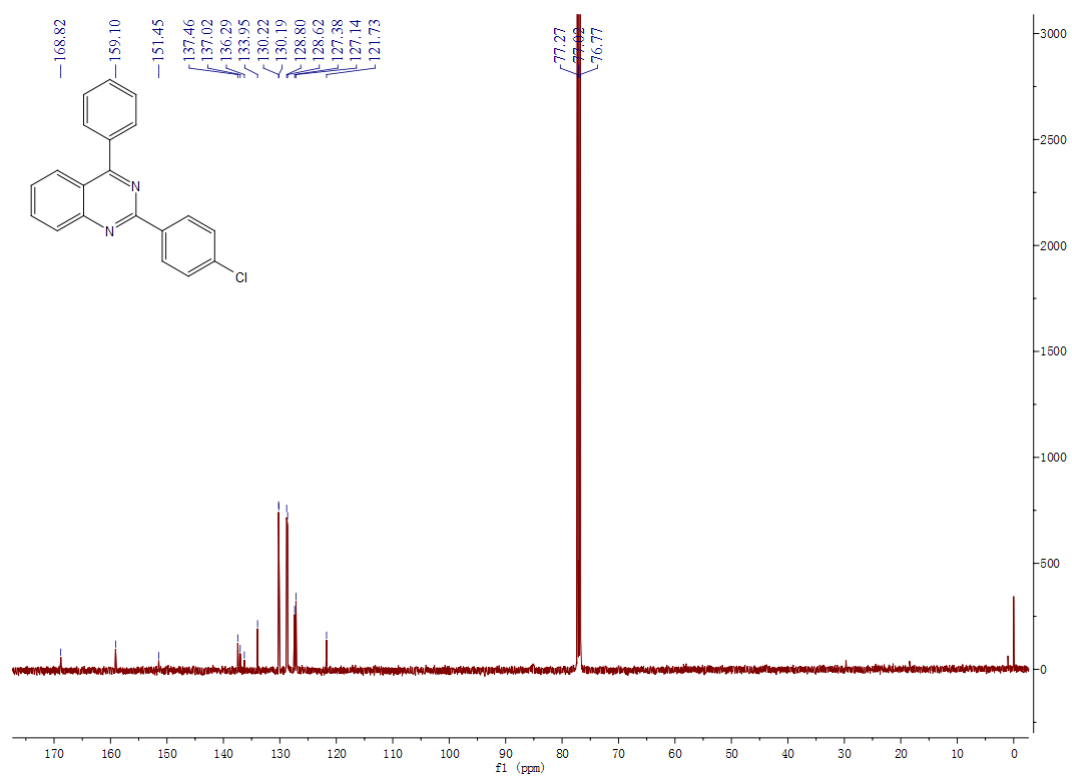
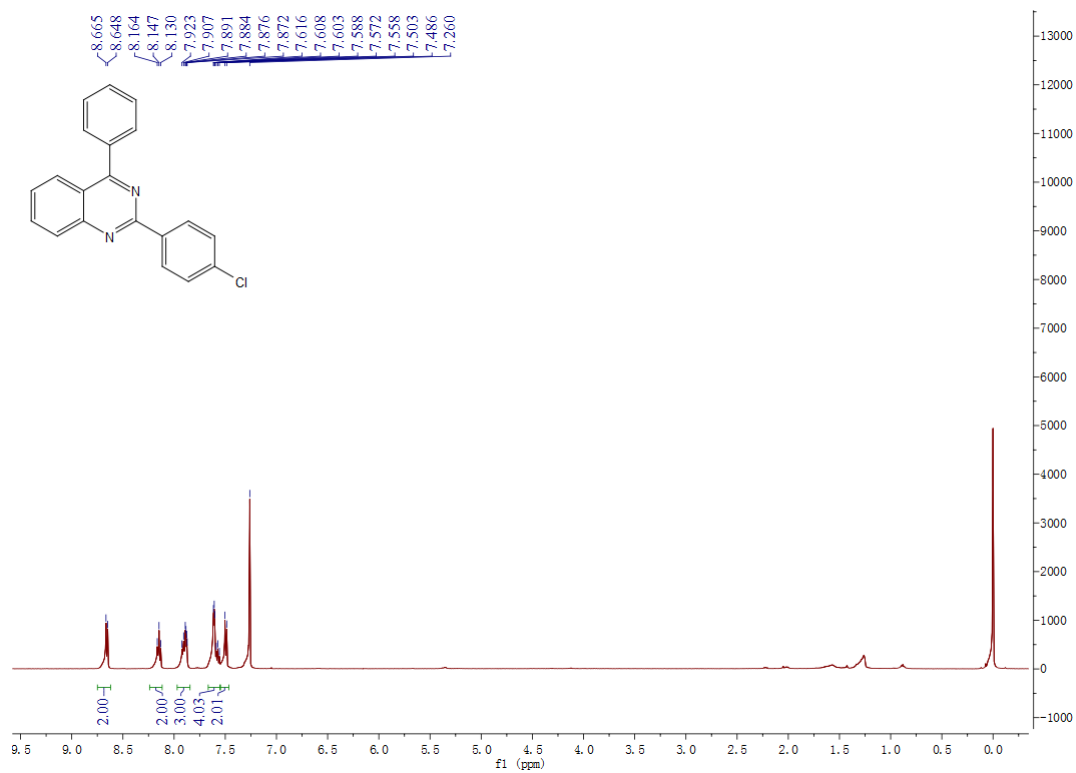


Figure S20. ¹H NMR of **3u** (500 MHz, CDCl₃) and ¹³C NMR of **3u** (125 MHz, CDCl₃).

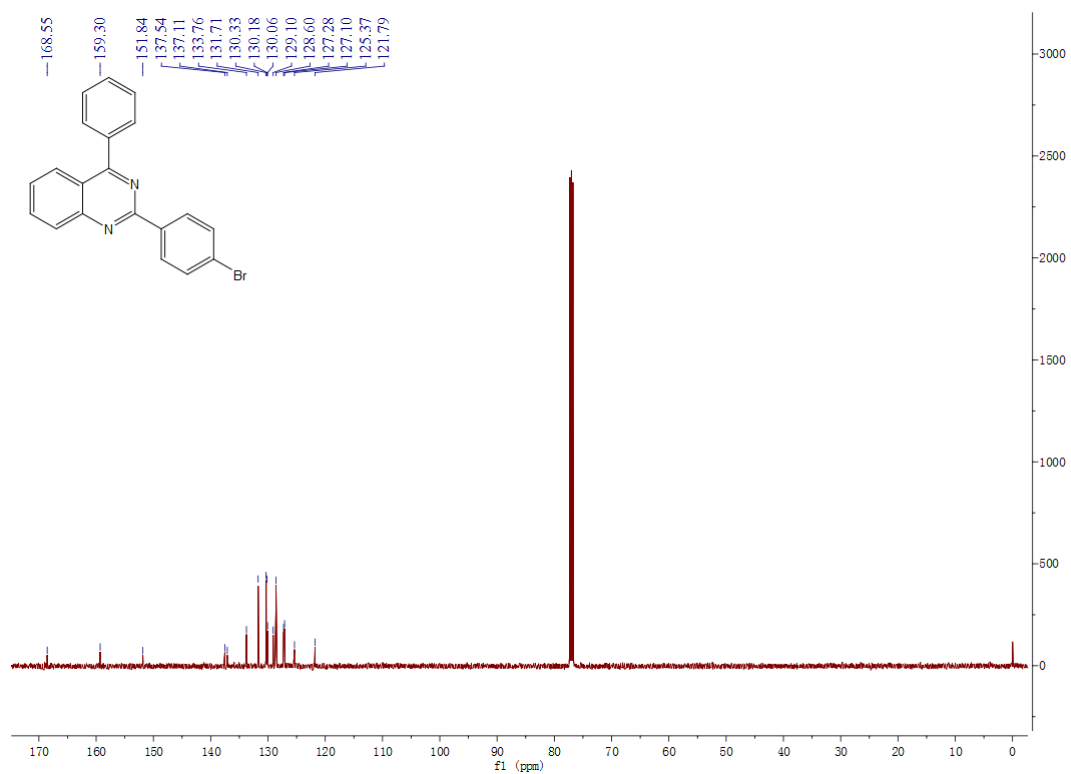
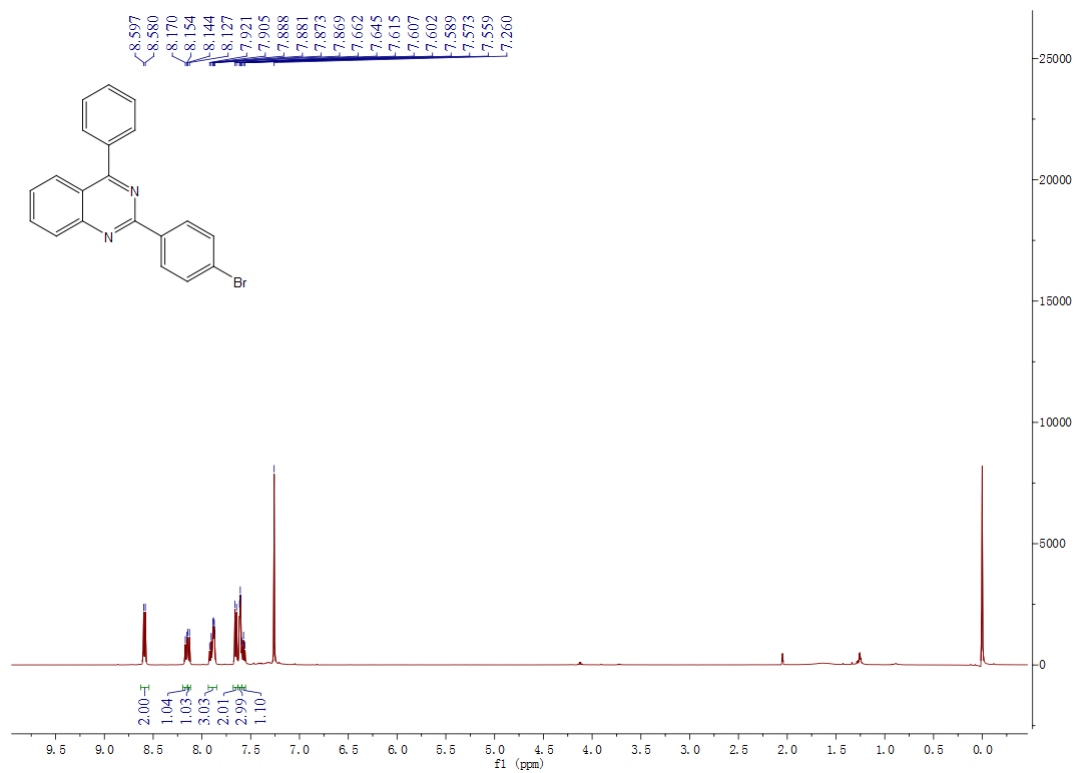


Figure S21. ¹H NMR of **3v** (500 MHz, CDCl₃) and ¹³C NMR of **3v** (125 MHz, CDCl₃).

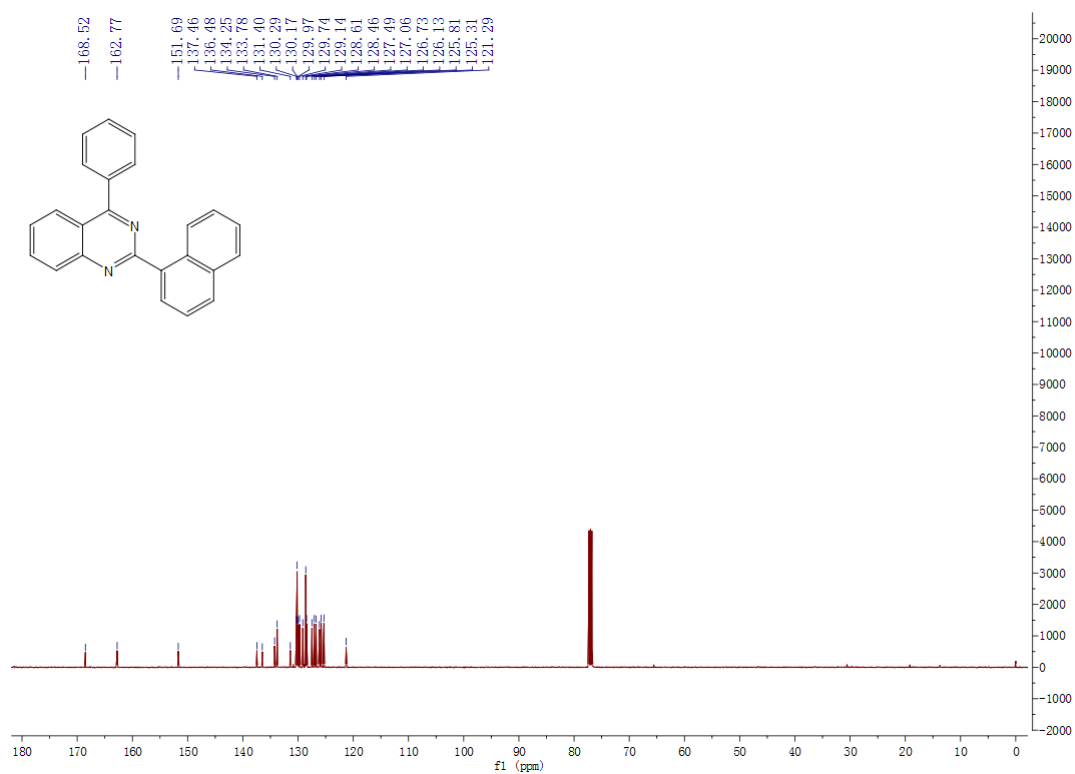
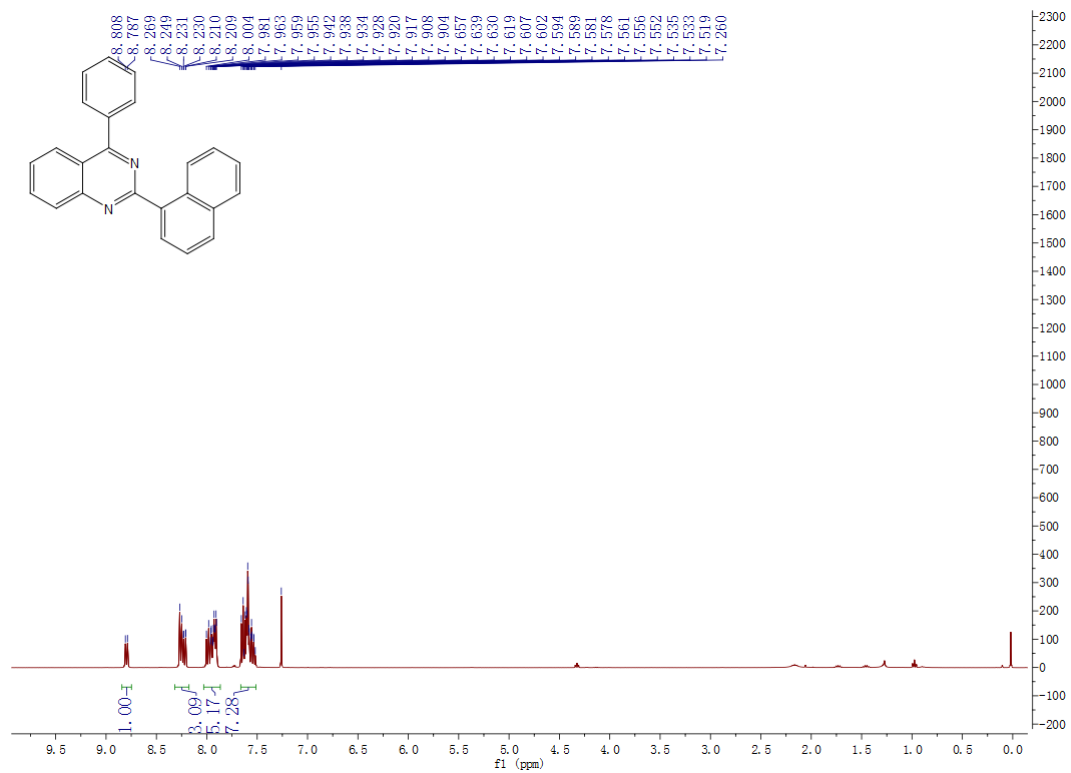


Figure S22. ¹H NMR of **3w** (500 MHz, CDCl₃) and ¹³C NMR of **3w** (125 MHz, CDCl₃).

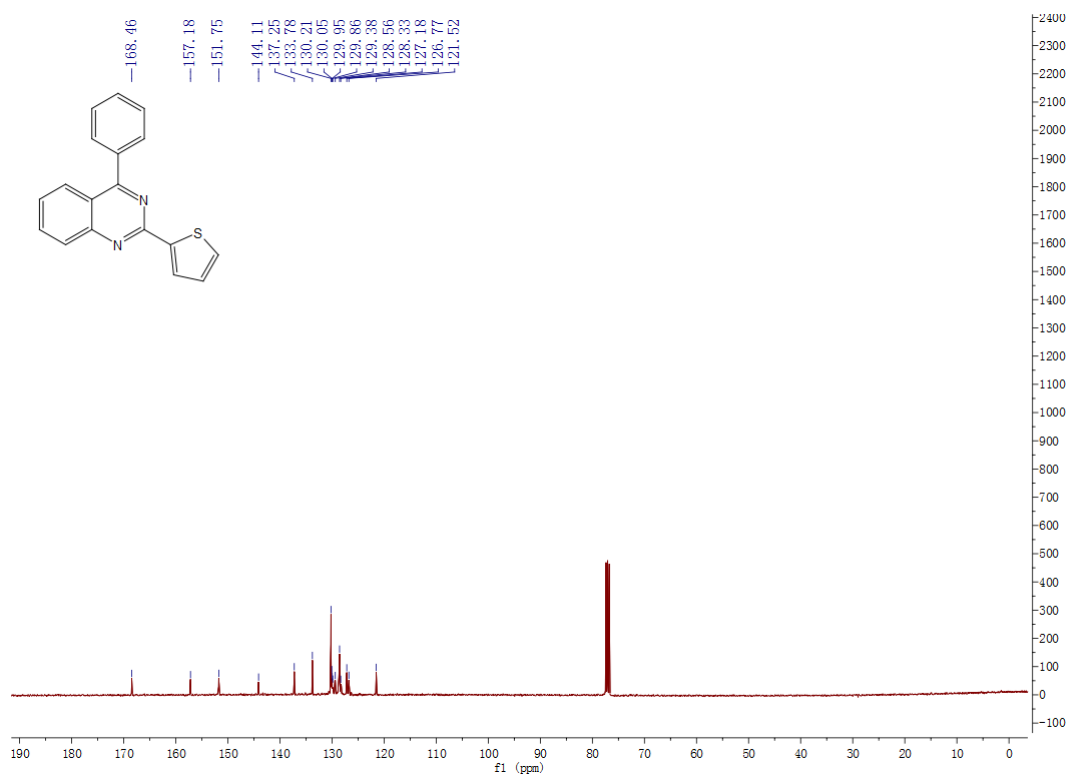
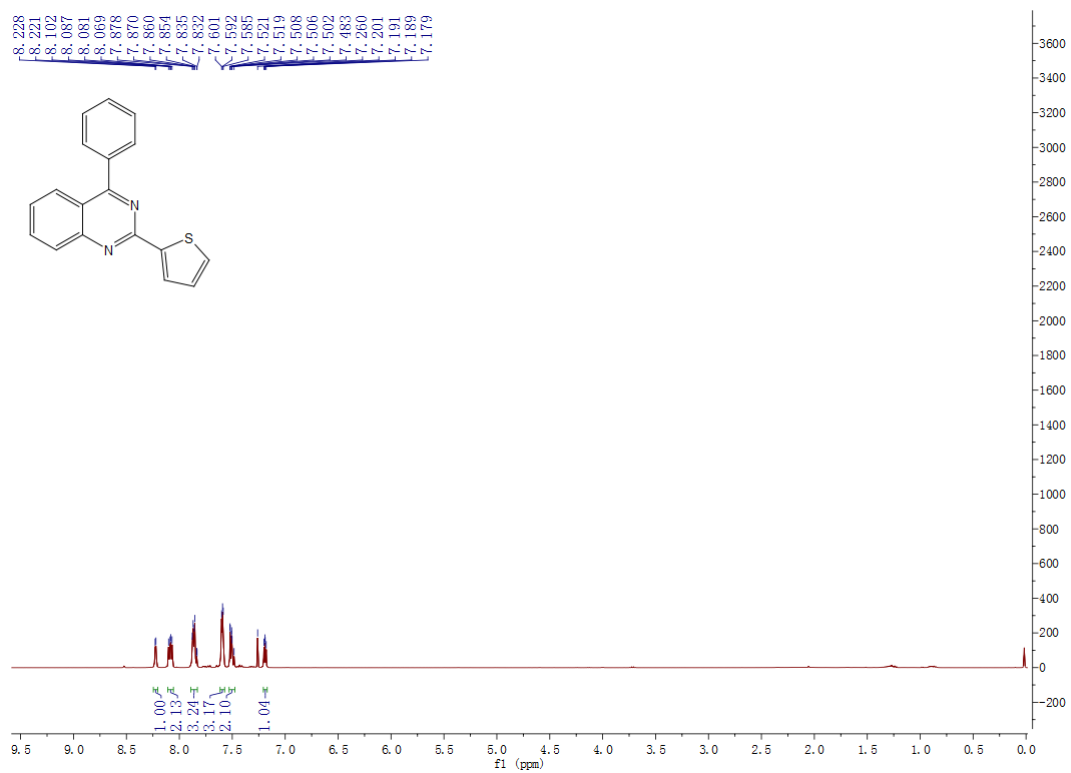


Figure S23. ¹H NMR of **3x** (500 MHz, CDCl₃) and ¹³C NMR of **3x** (125 MHz, CDCl₃).

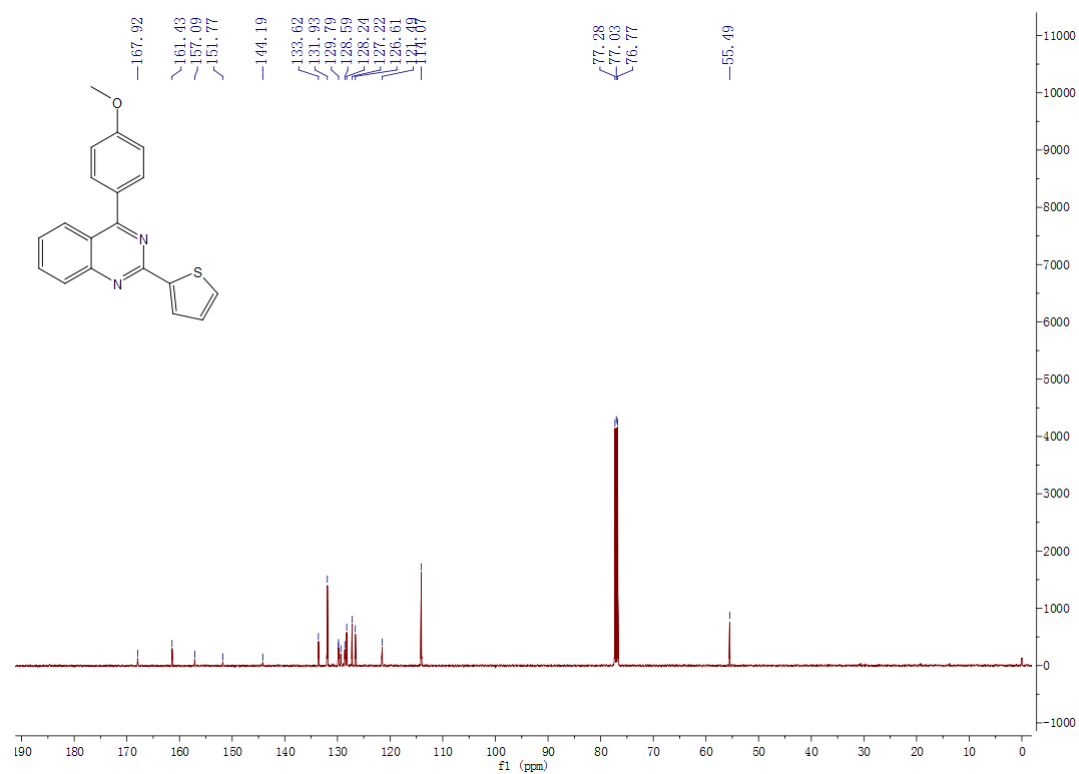
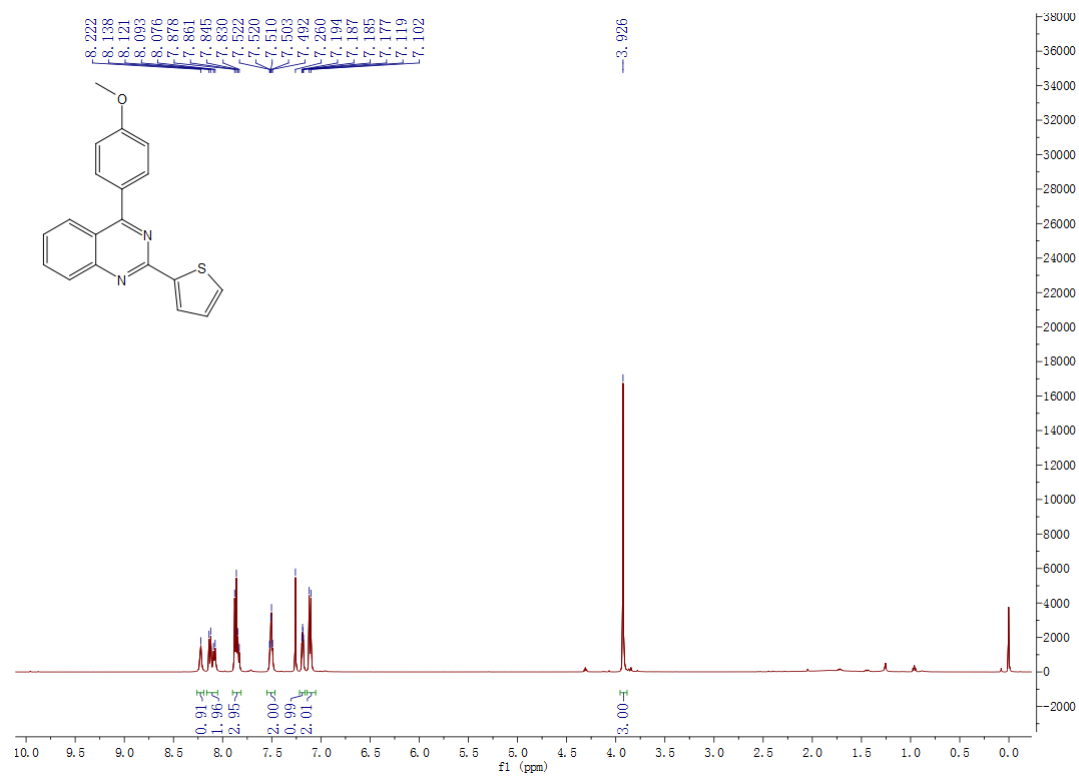


Figure S24. ¹H NMR of **3y** (500 MHz, CDCl₃) and ¹³C NMR of **3y** (125 MHz, CDCl₃).

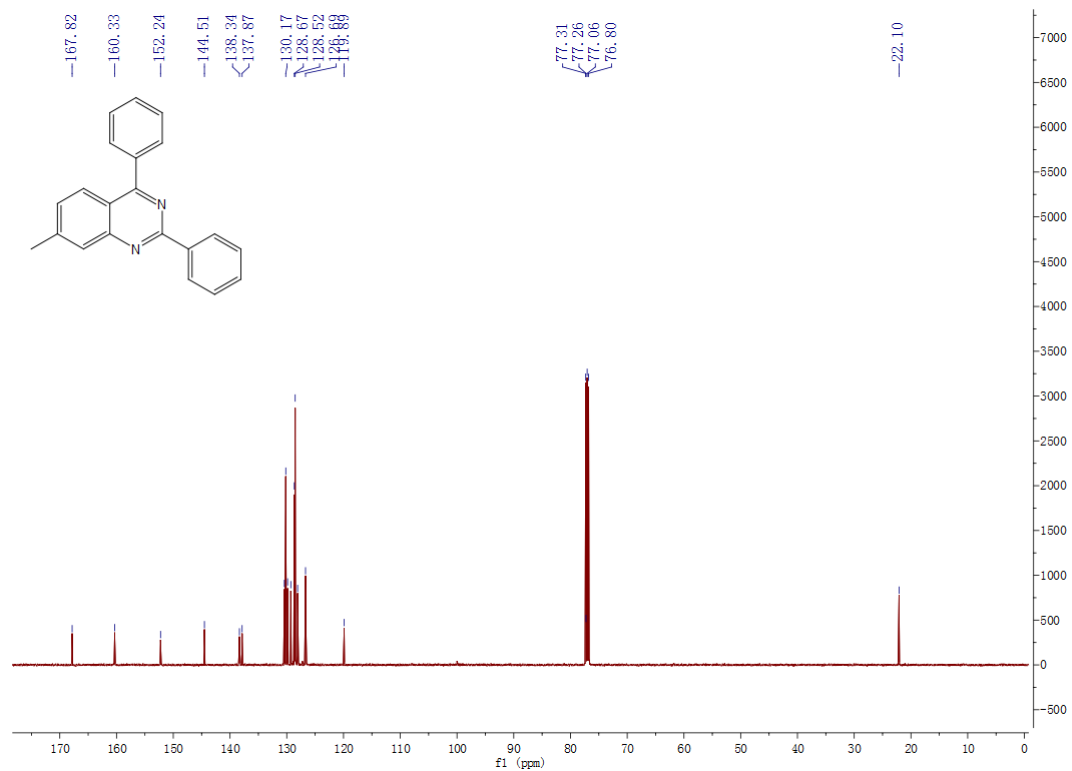
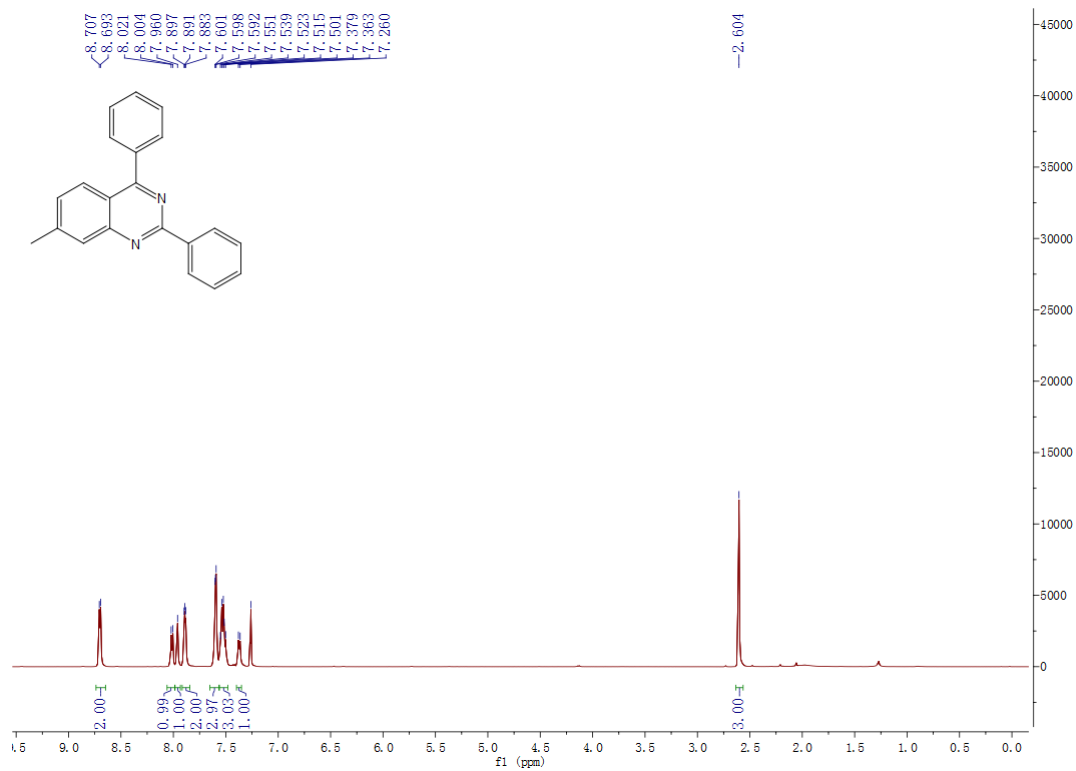


Figure S25. ¹H NMR of **3z** (500 MHz, CDCl₃) and ¹³C NMR of **3z** (125 MHz, CDCl₃).

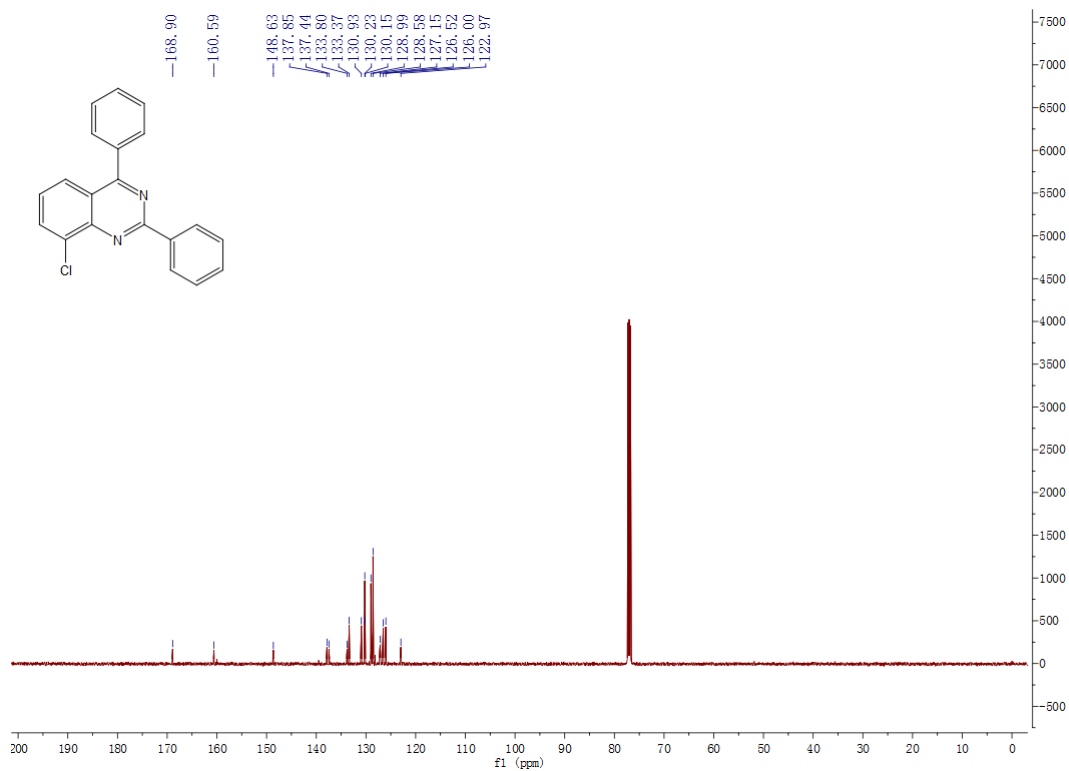
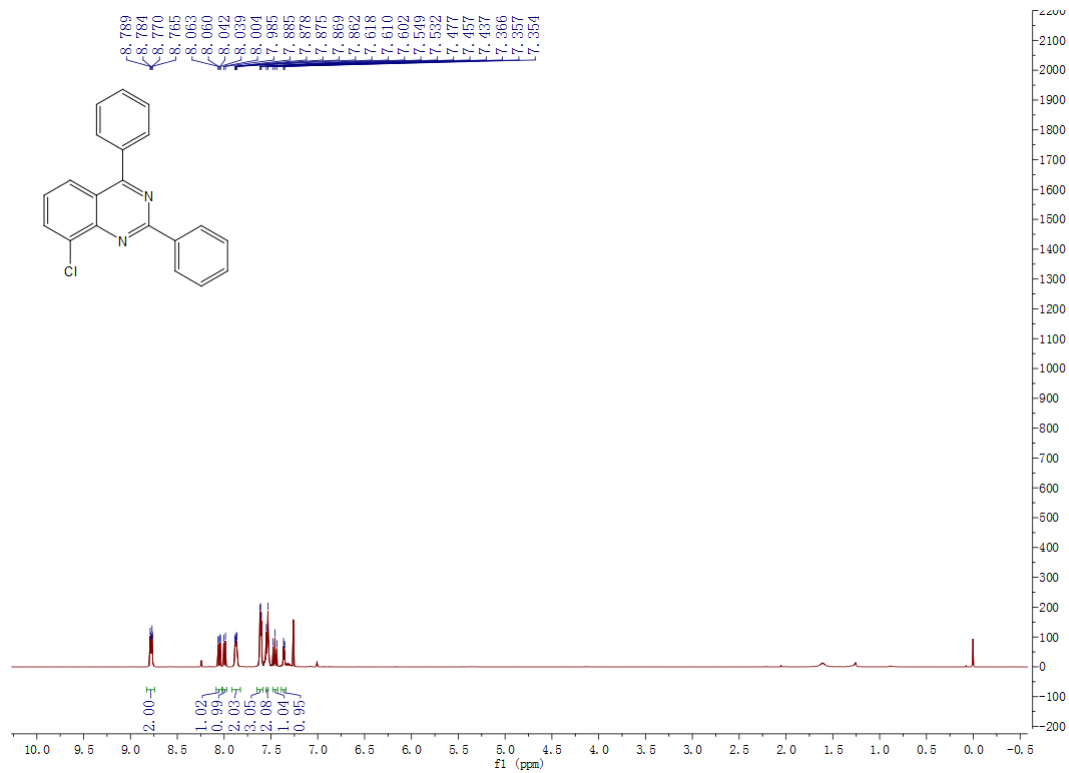


Figure S26. ¹H NMR of **4a** (500 MHz, CDCl₃) and ¹³C NMR of **4a** (125 MHz, CDCl₃).

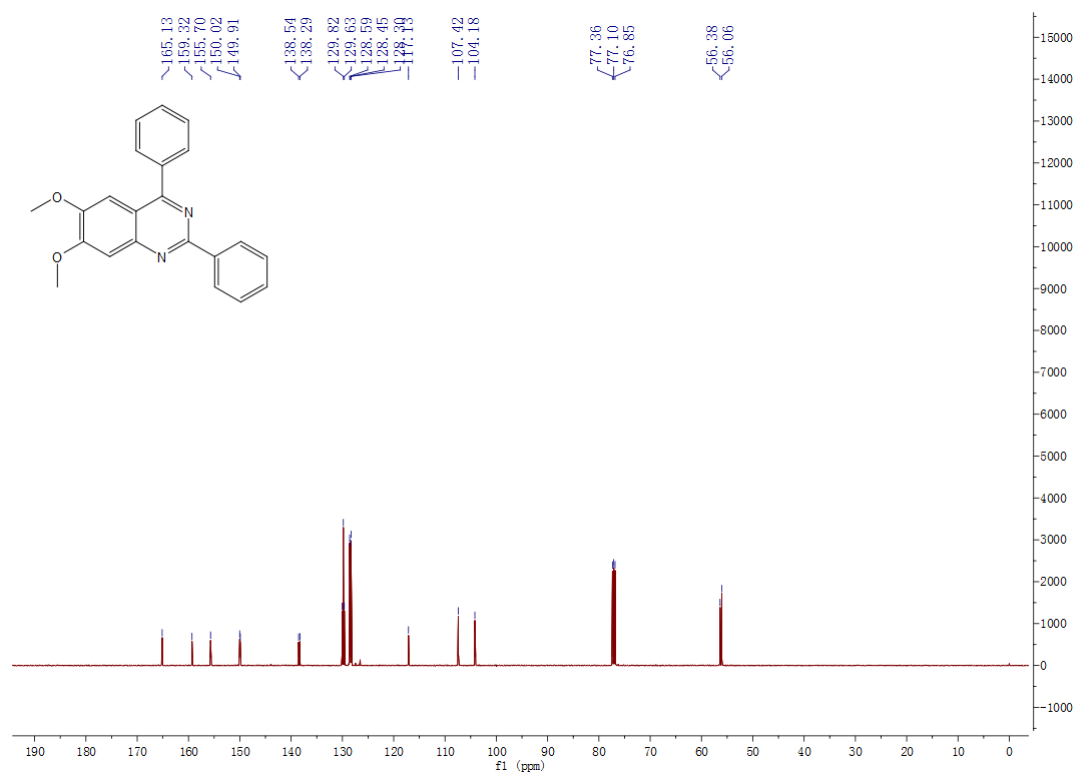
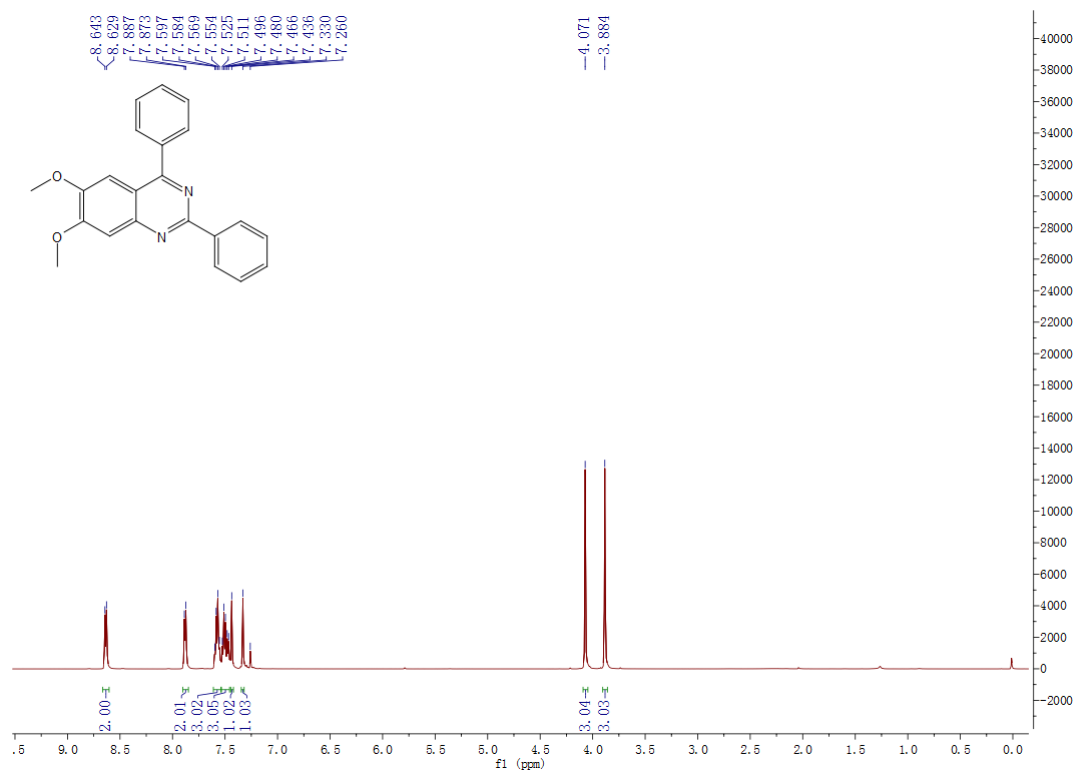


Figure S27. ¹H NMR of **4b** (500 MHz, CDCl₃) and ¹³C NMR of **4b** (125 MHz, CDCl₃).

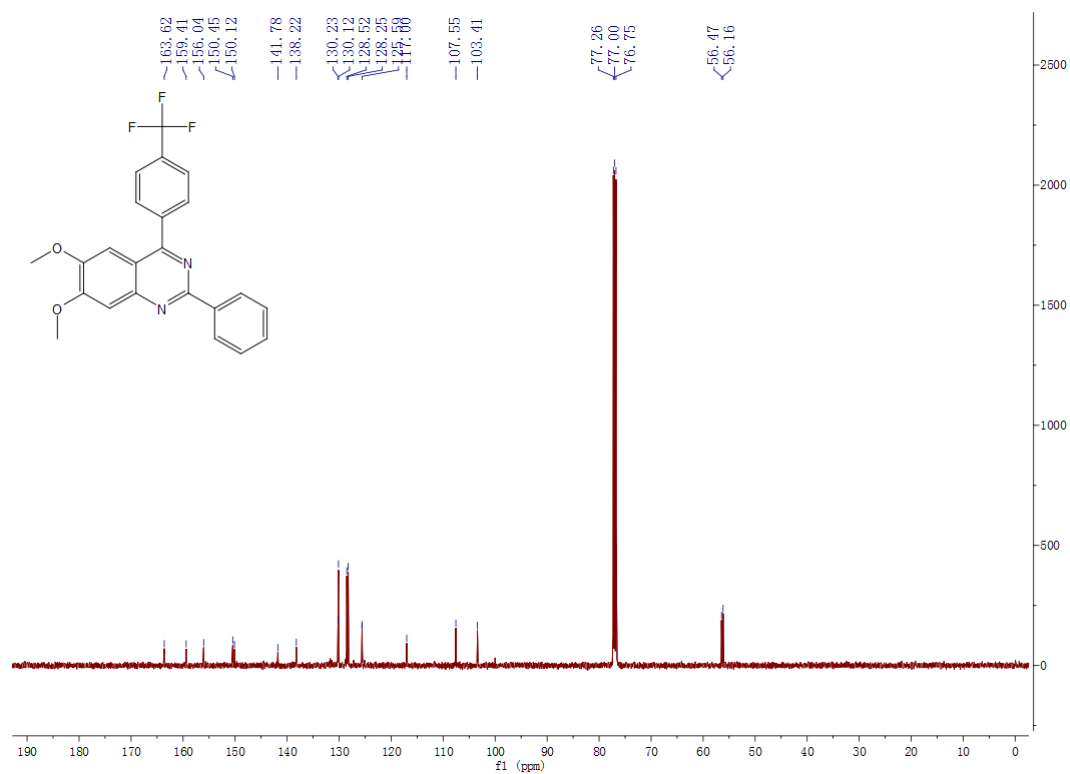
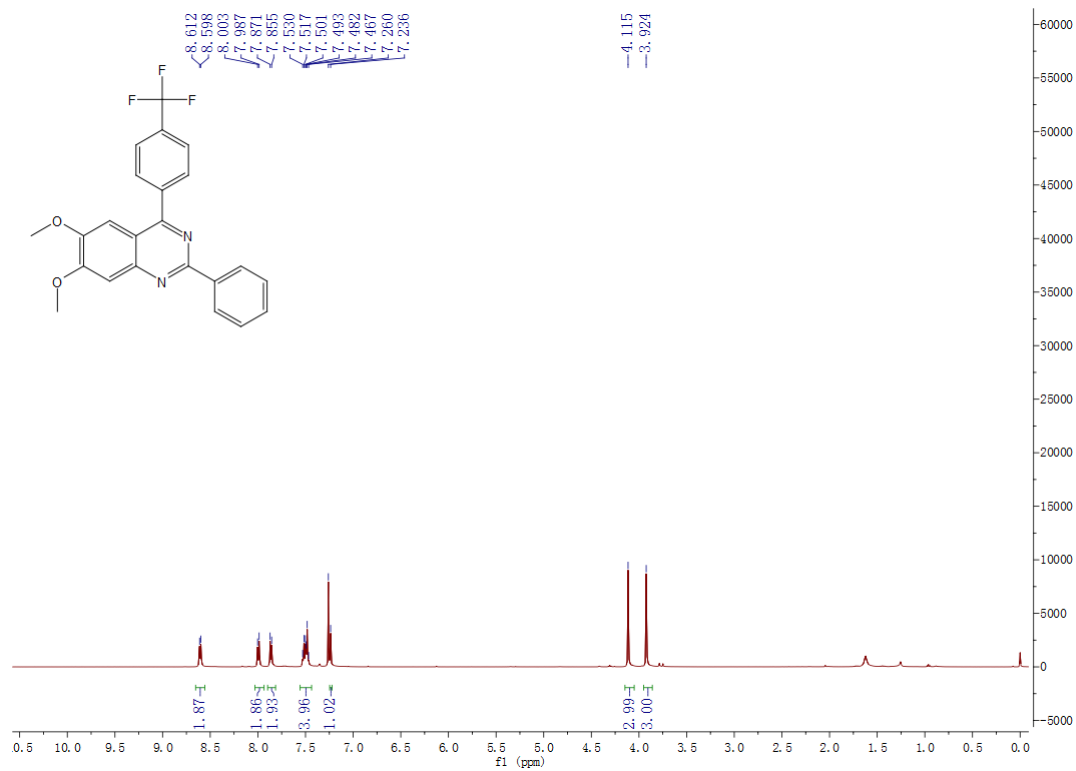


Figure S28. ¹H NMR of 4c (500 MHz, CDCl₃) and ¹³C NMR of 4c (125 MHz, CDCl₃).

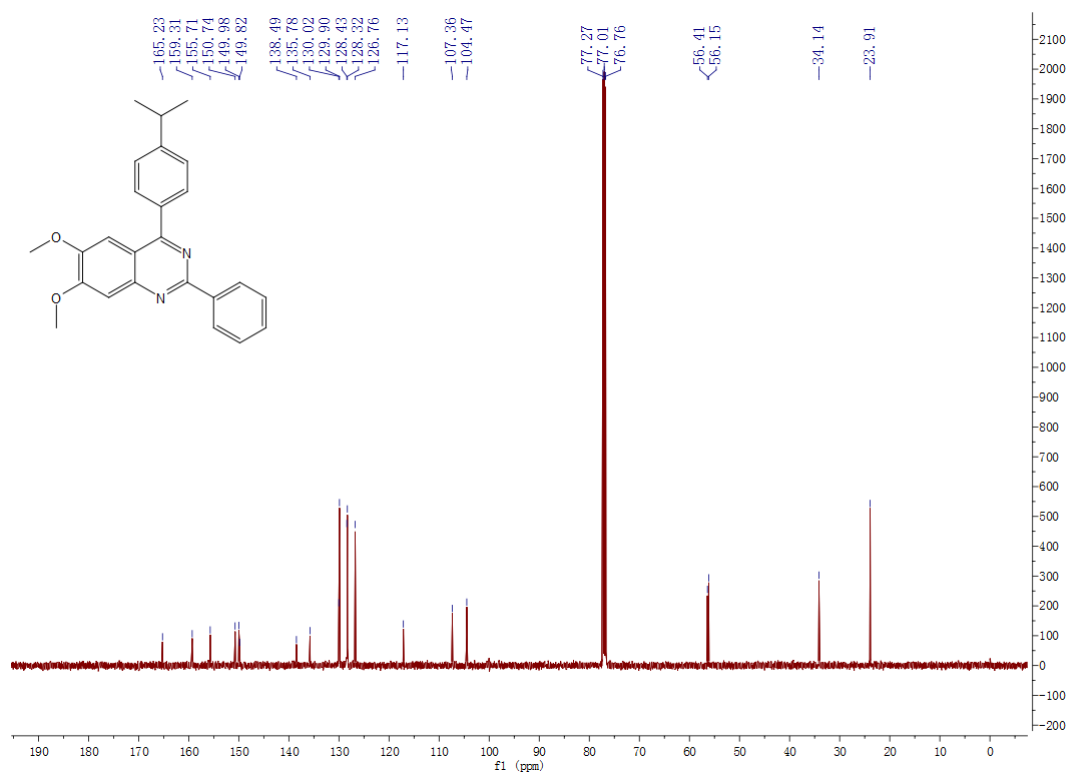
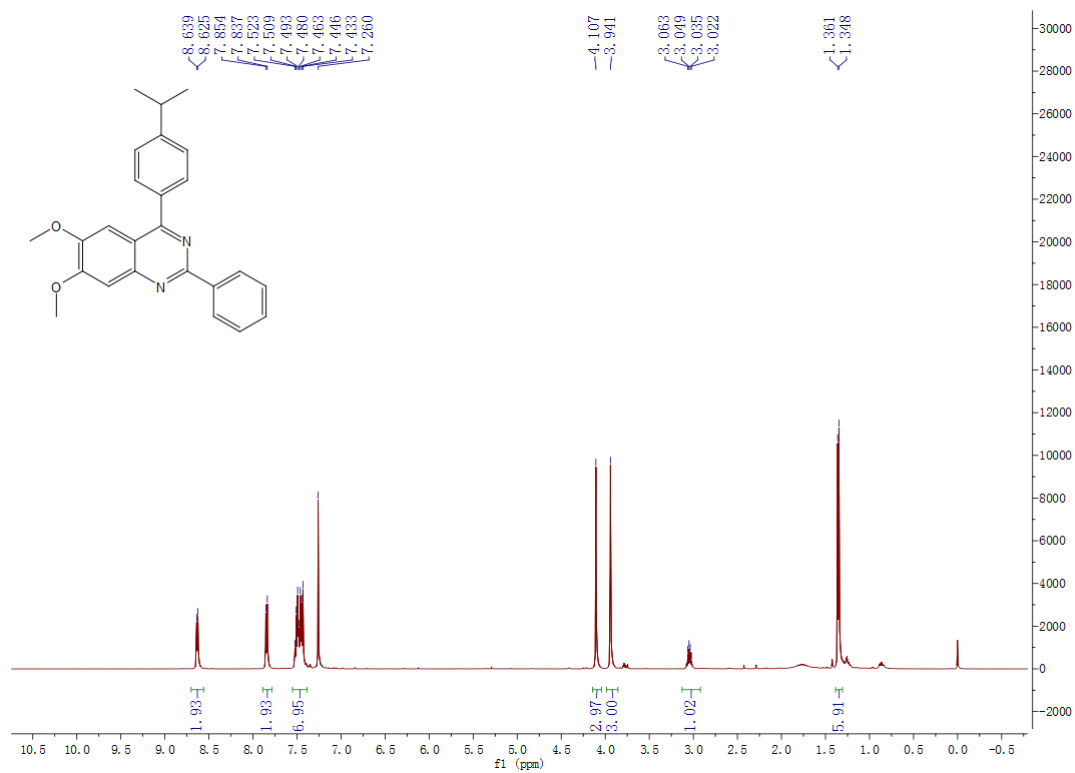


Figure S29. ¹H NMR of **4d** (500 MHz, CDCl₃) and ¹³C NMR of **4d** (125 MHz, CDCl₃).

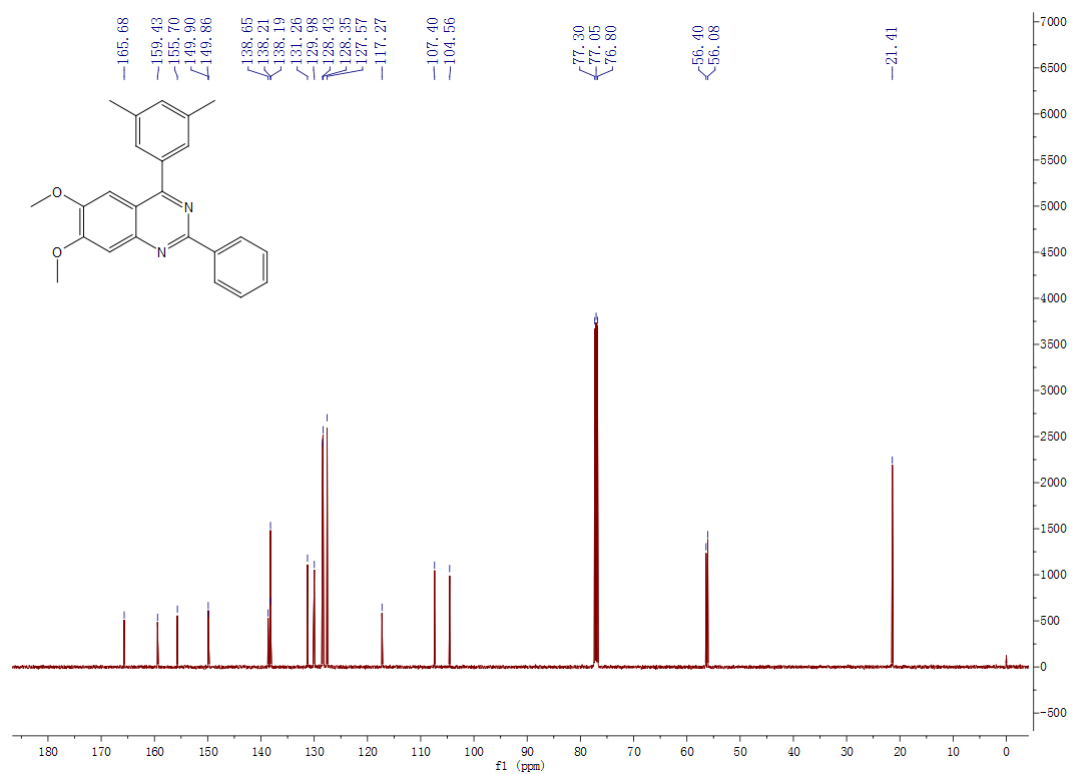
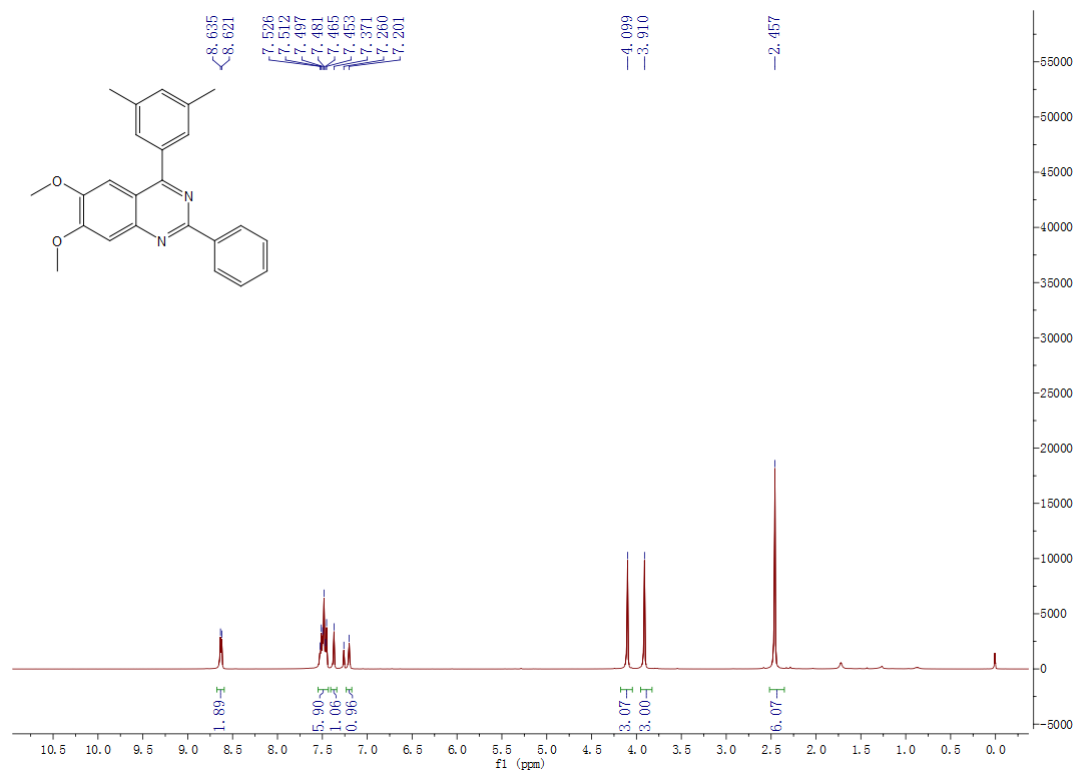


Figure S30. ¹H NMR of 4e (500 MHz, CDCl₃) and ¹³C NMR of 4e (125 MHz, CDCl₃).

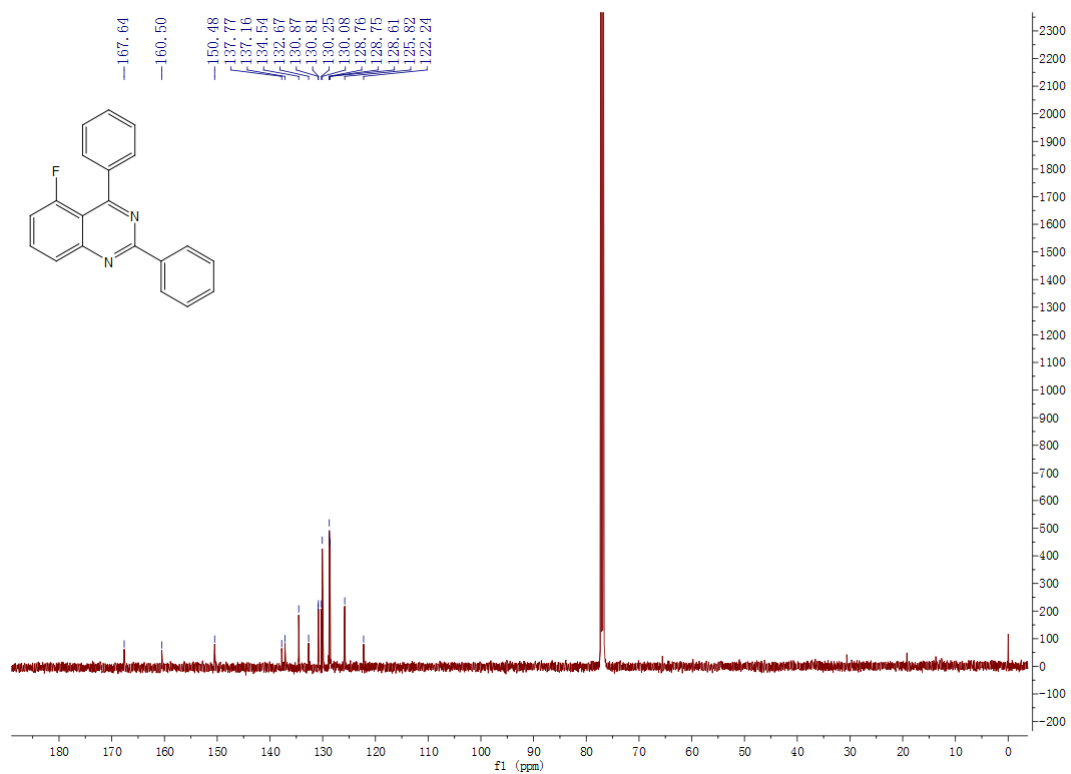
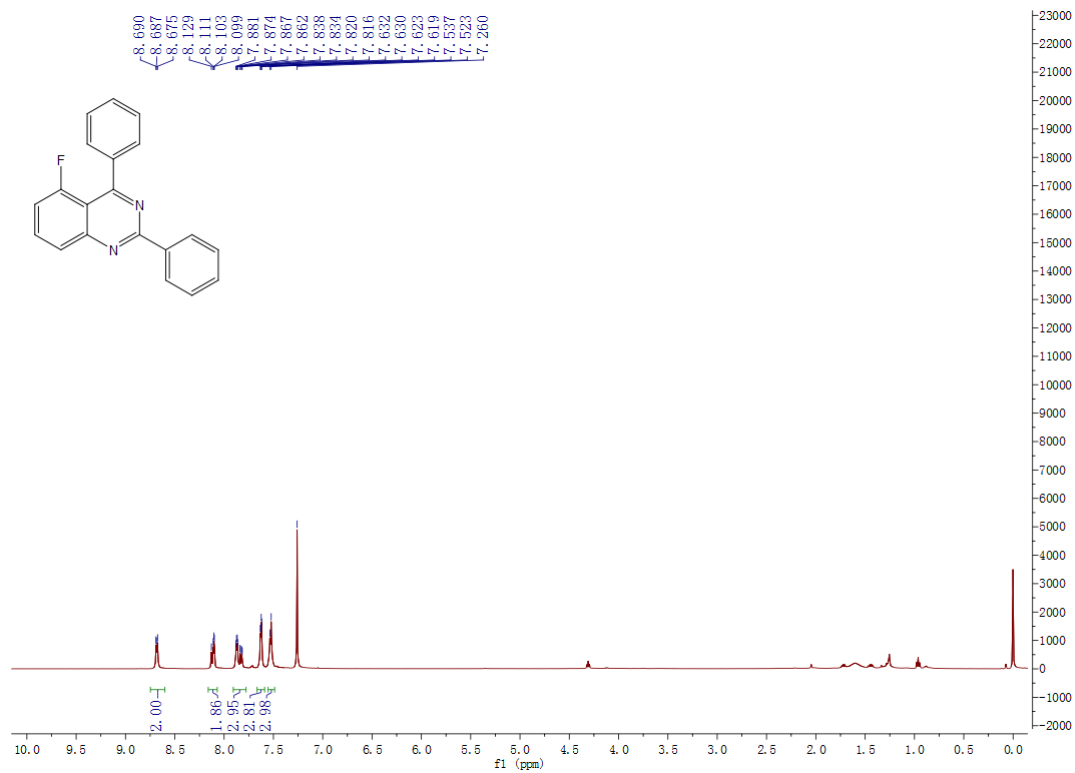


Figure S31. ¹H NMR of **4f** (500 MHz, CDCl₃) and ¹³C NMR of **4f** (125 MHz, CDCl₃).

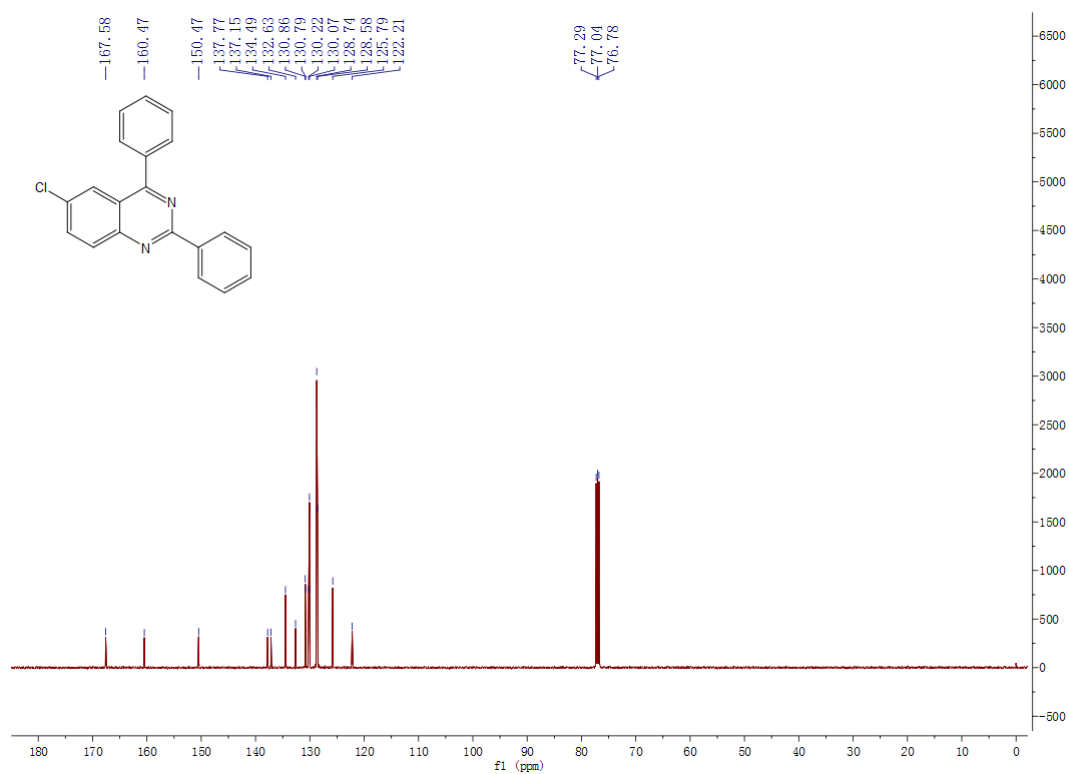
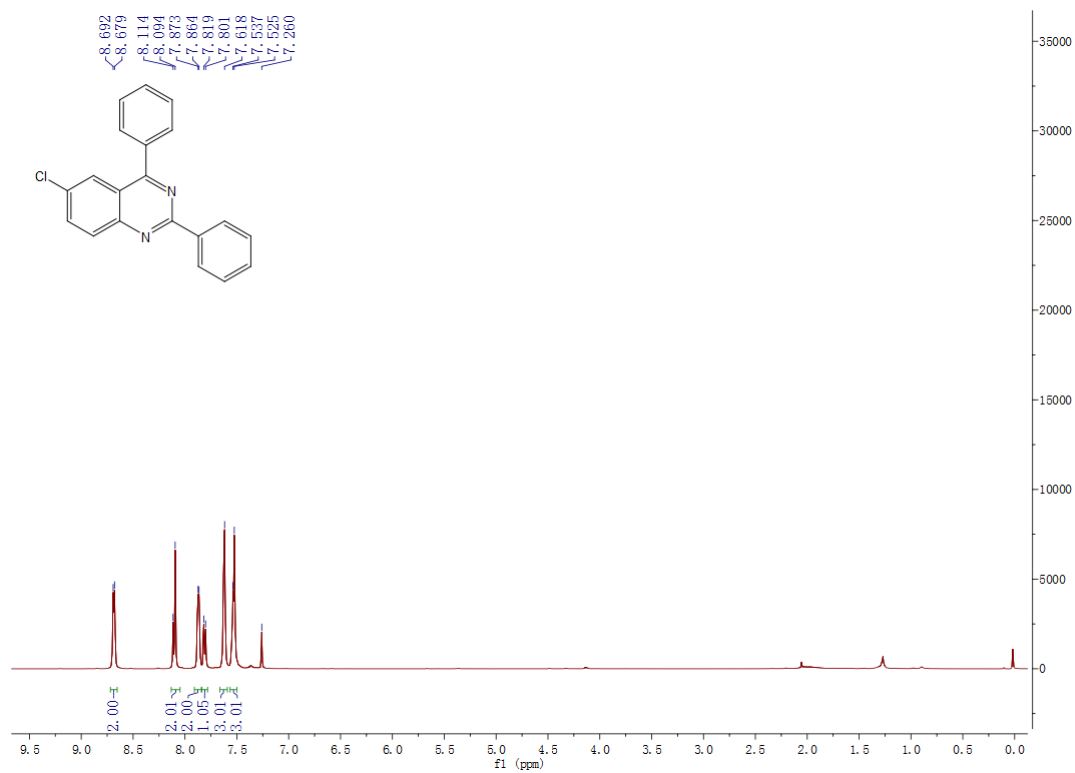


Figure S32. ¹H NMR of **4g** (500 MHz, CDCl₃) and ¹³C NMR of **4g** (125 MHz, CDCl₃).

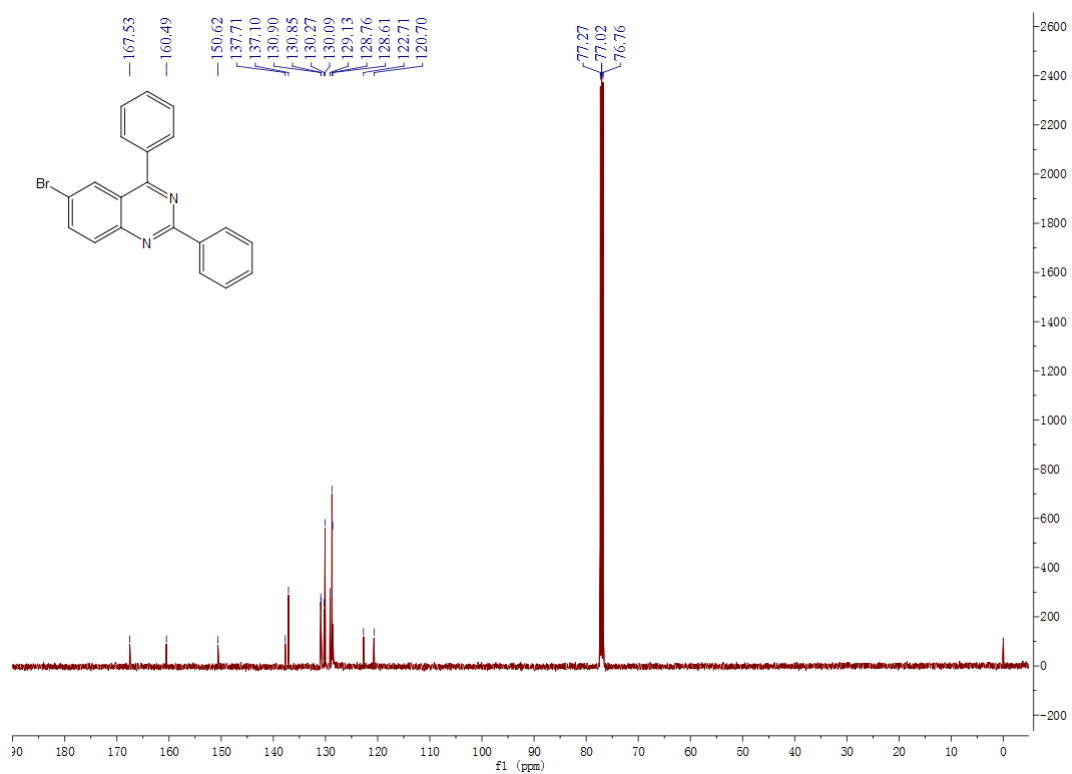
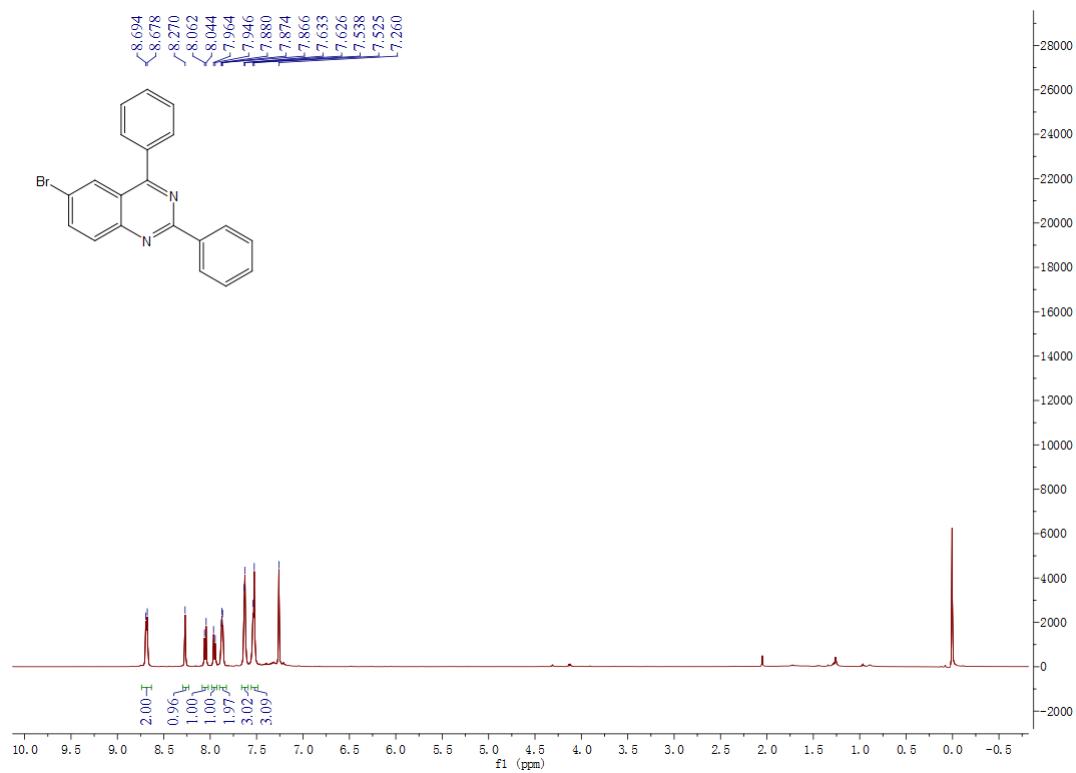


Figure S33. ¹H NMR of **4h** (500 MHz, CDCl₃) and ¹³C NMR of **4h** (125 MHz, CDCl₃).

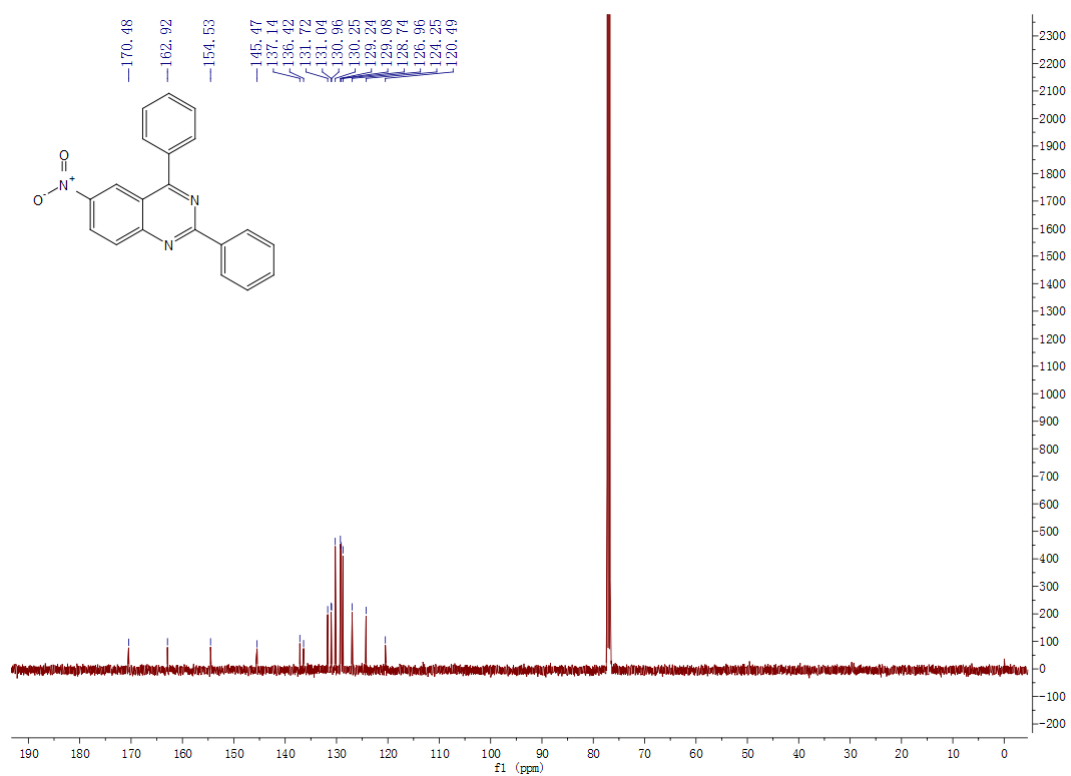
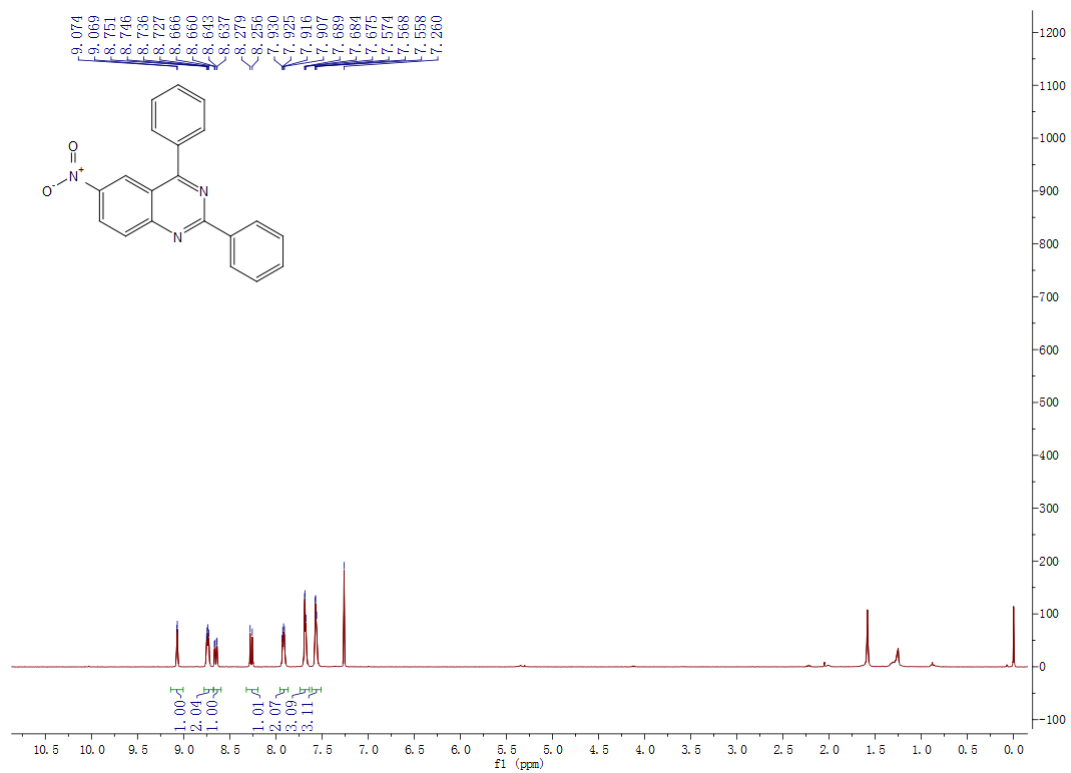


Figure S34. ¹H NMR of **4i** (500 MHz, CDCl₃) and ¹³C NMR of **4i** (125 MHz, CDCl₃).

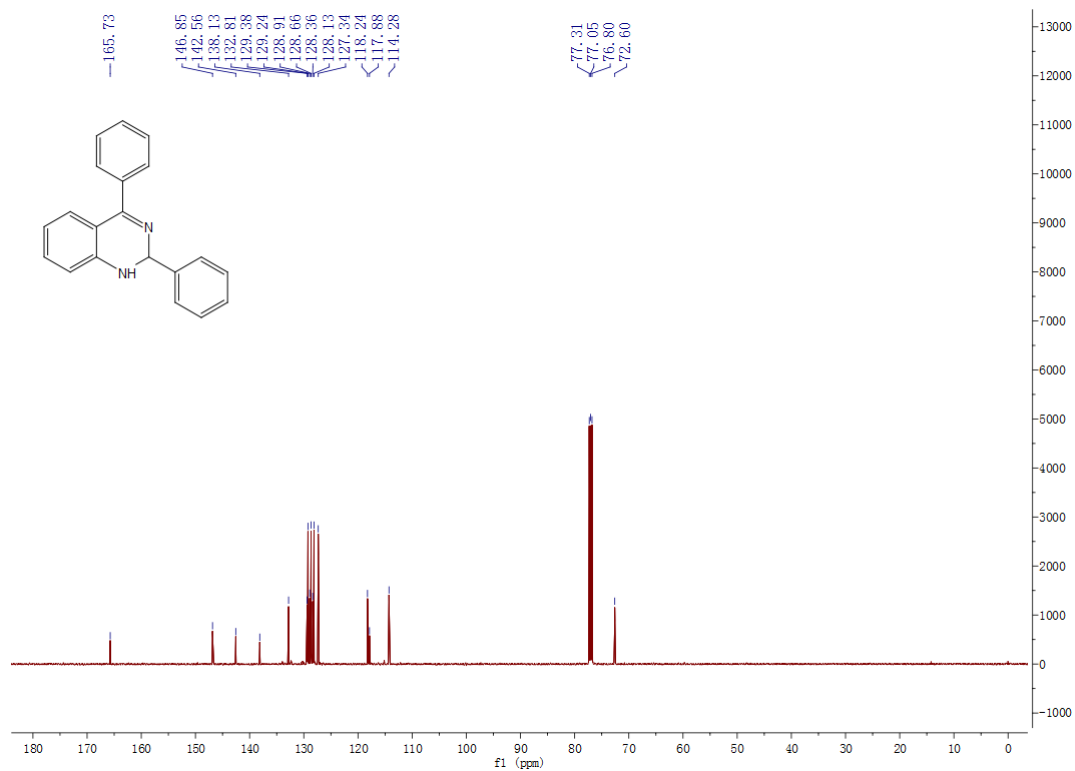
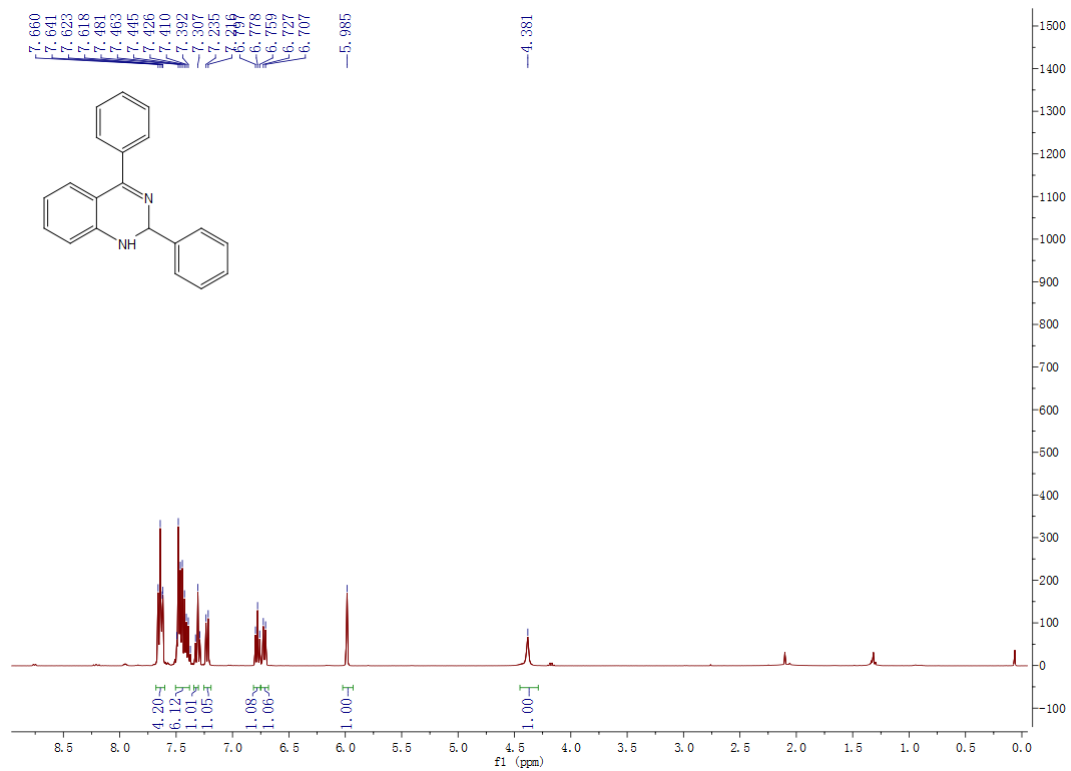


Figure S35. ¹H NMR of **5a** (500 MHz, CDCl₃) and ¹³C NMR of **5a** (125 MHz, CDCl₃).