

Supplementary Material

Synthesis of novel hybrid heterocycles tethered 2,3-diphenoxyquinoxaline moiety *via* Michael addition reaction

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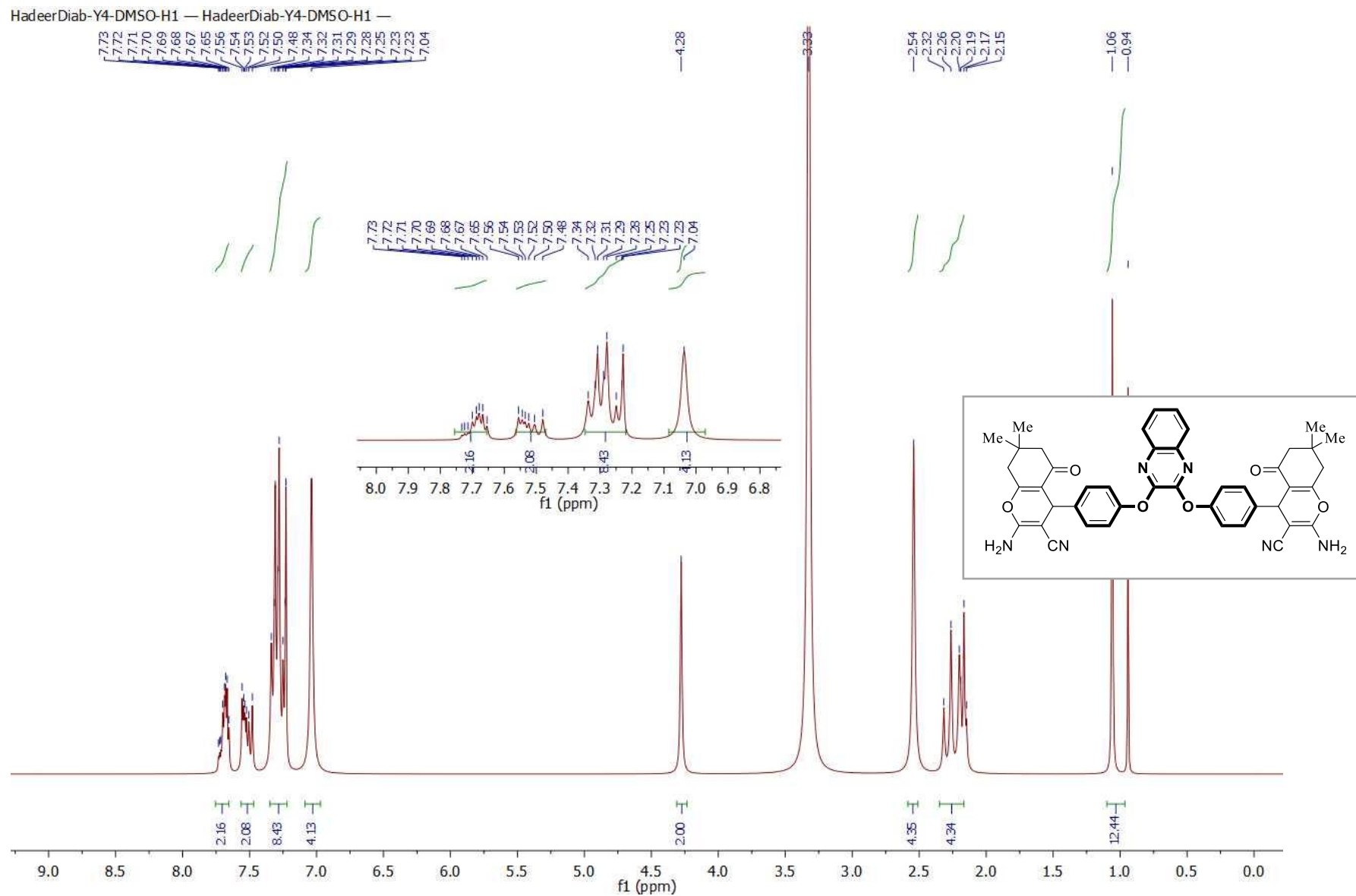


Figure 1. The ^1H NMR spectrum of compound **4**.

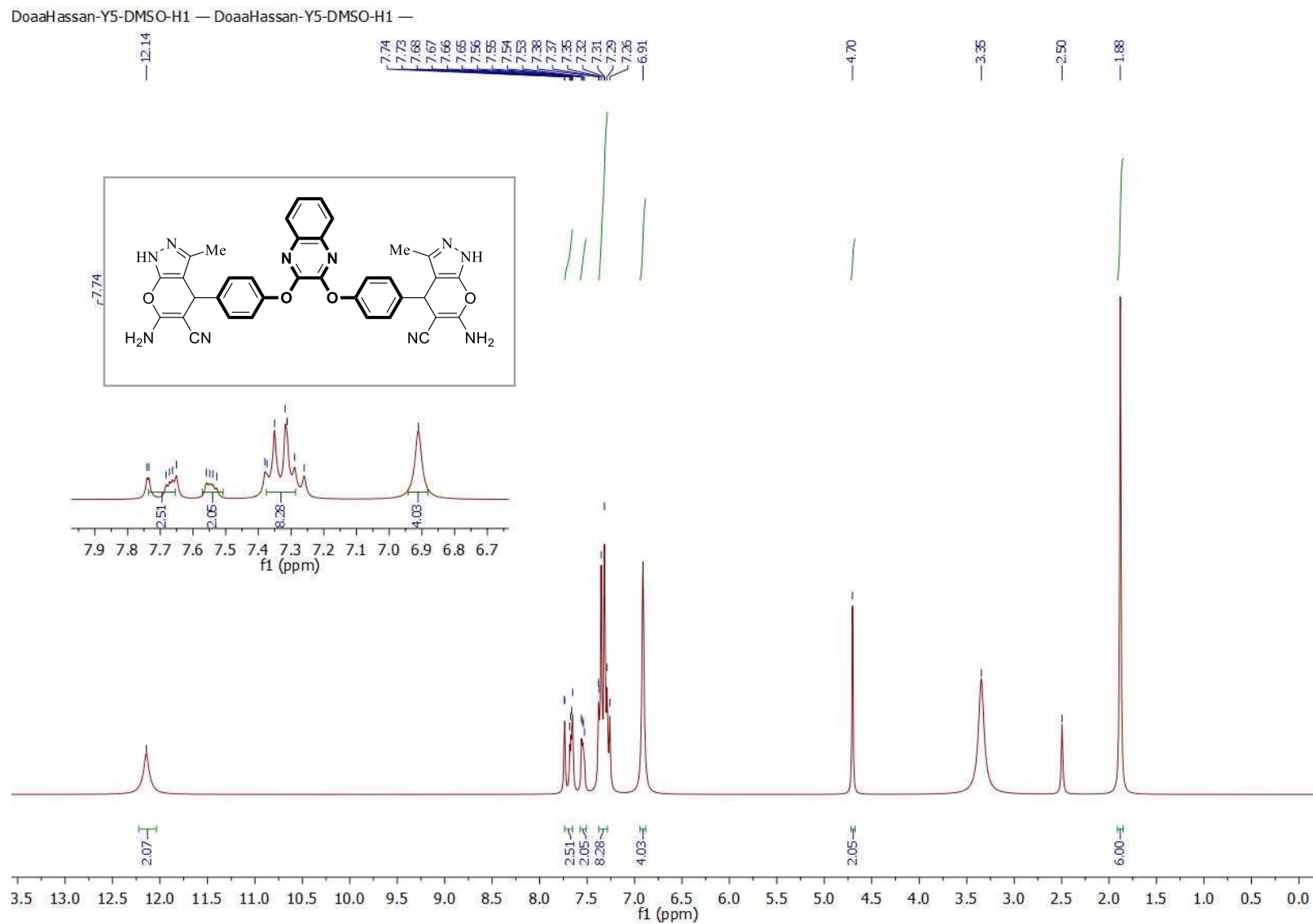


Figure 2. The ^1H NMR spectrum of compound **6**.

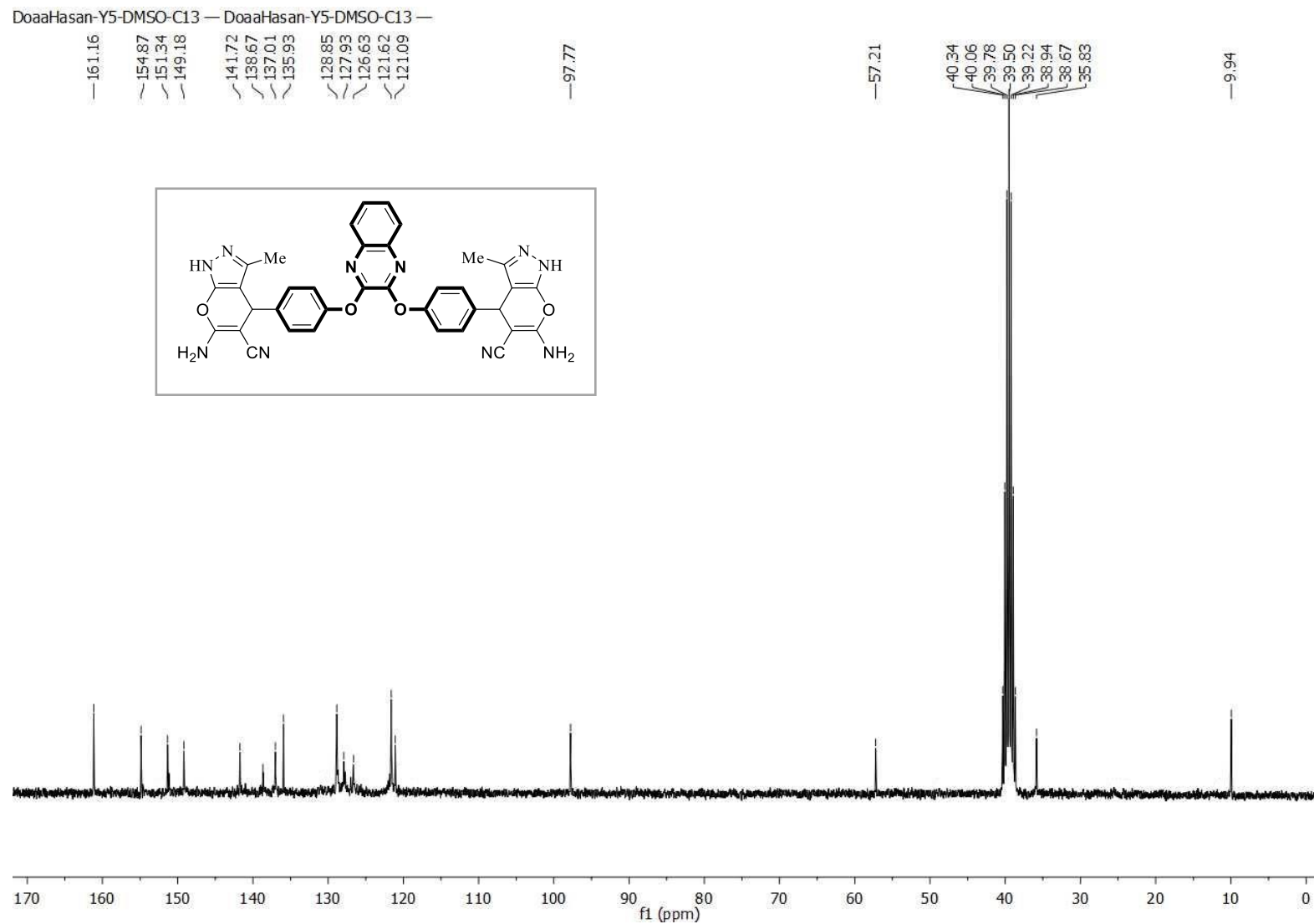


Figure 3. The ^{13}C NMR spectrum of compound **6**.

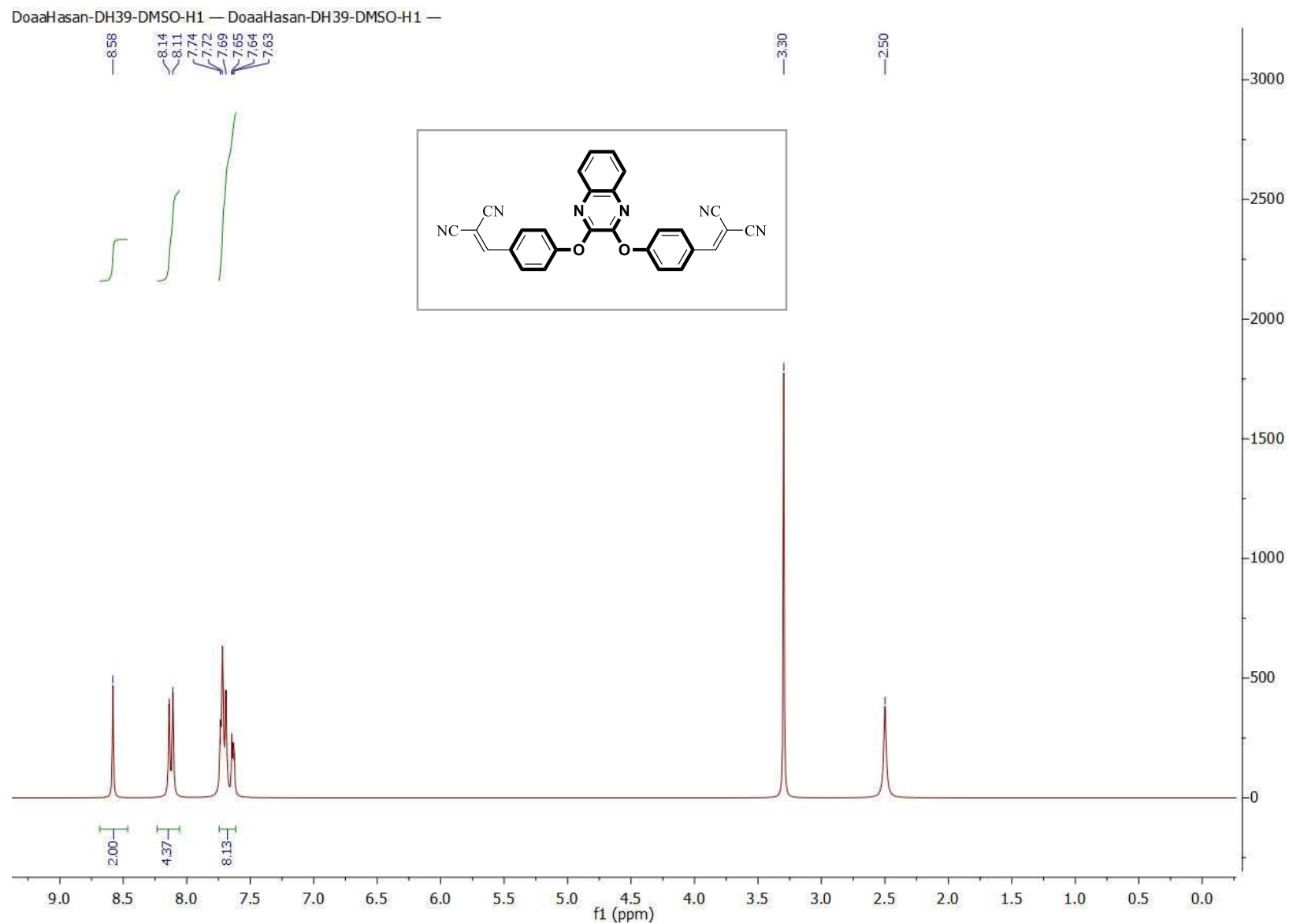


Figure 4. The ^1H NMR spectrum of compound 7.

DoaaHasan-DH39-DMSO-C13 — DoaaHasan-DH39-DMSO-C13 —

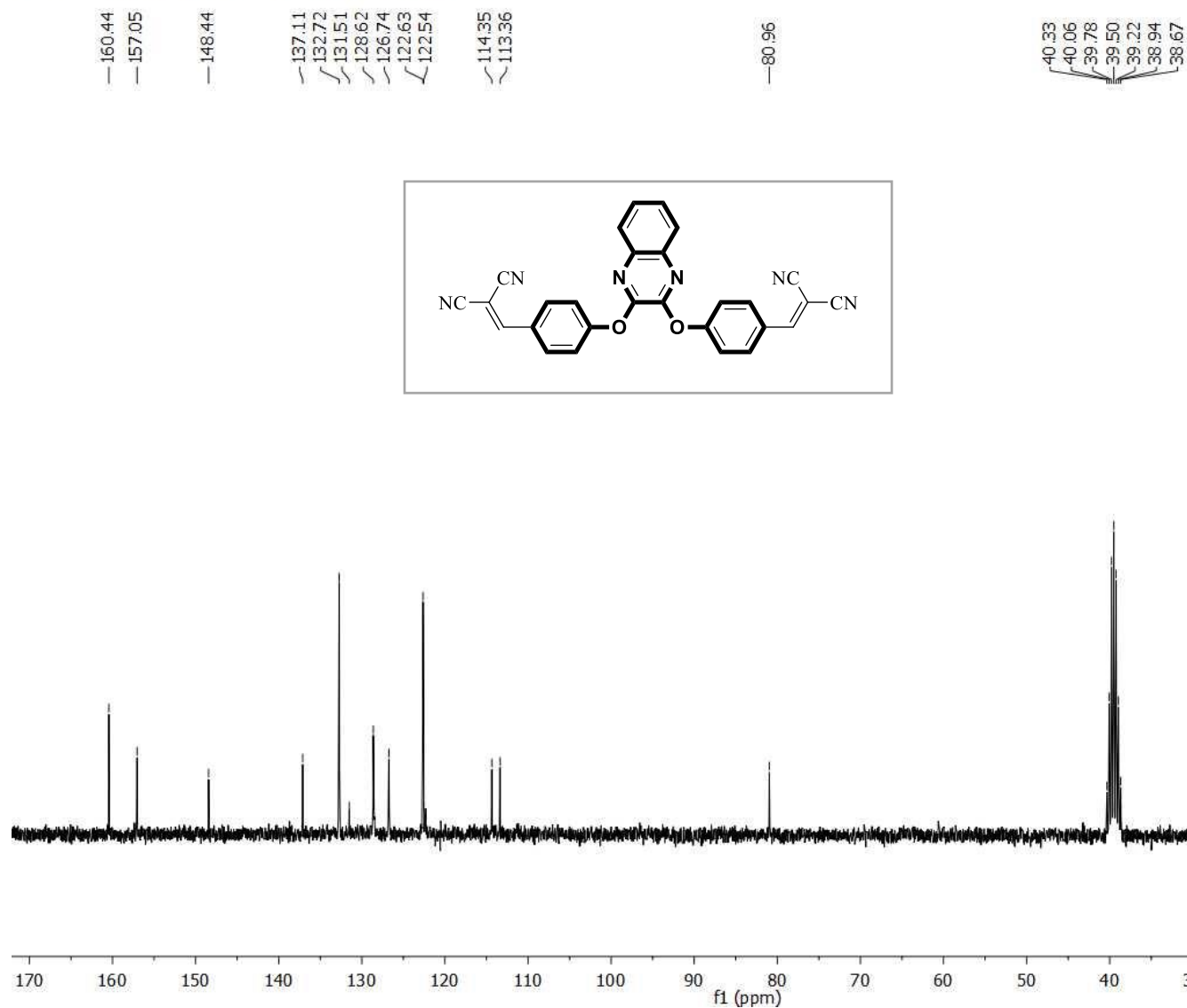
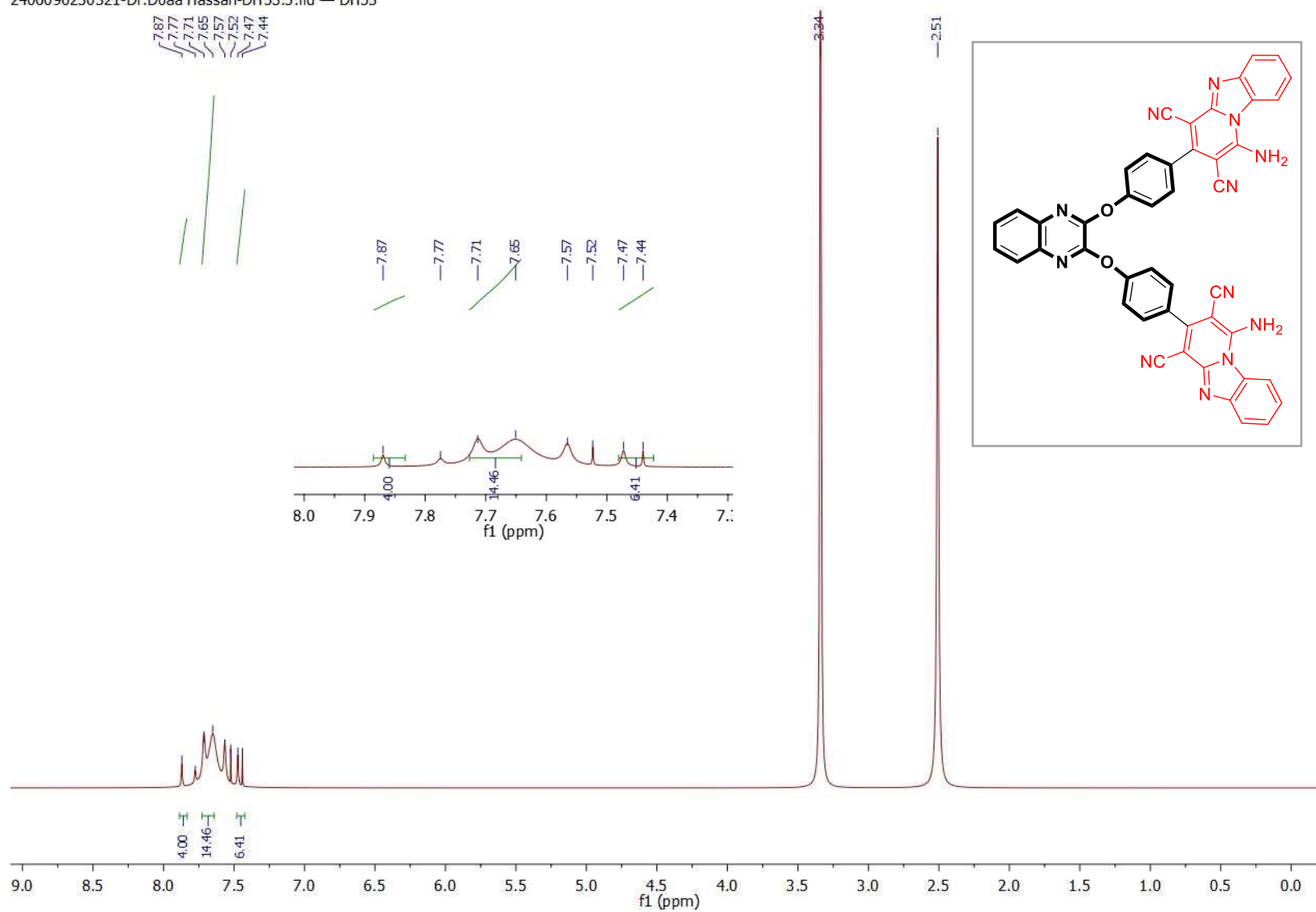


Figure 5. The ^{13}C NMR spectrum of compound 7.

2406090230321-Dr.Doaa Hassan-DH53.5.fid — DH53

**Figure 6.** The ^1H NMR spectrum of compound **11**.

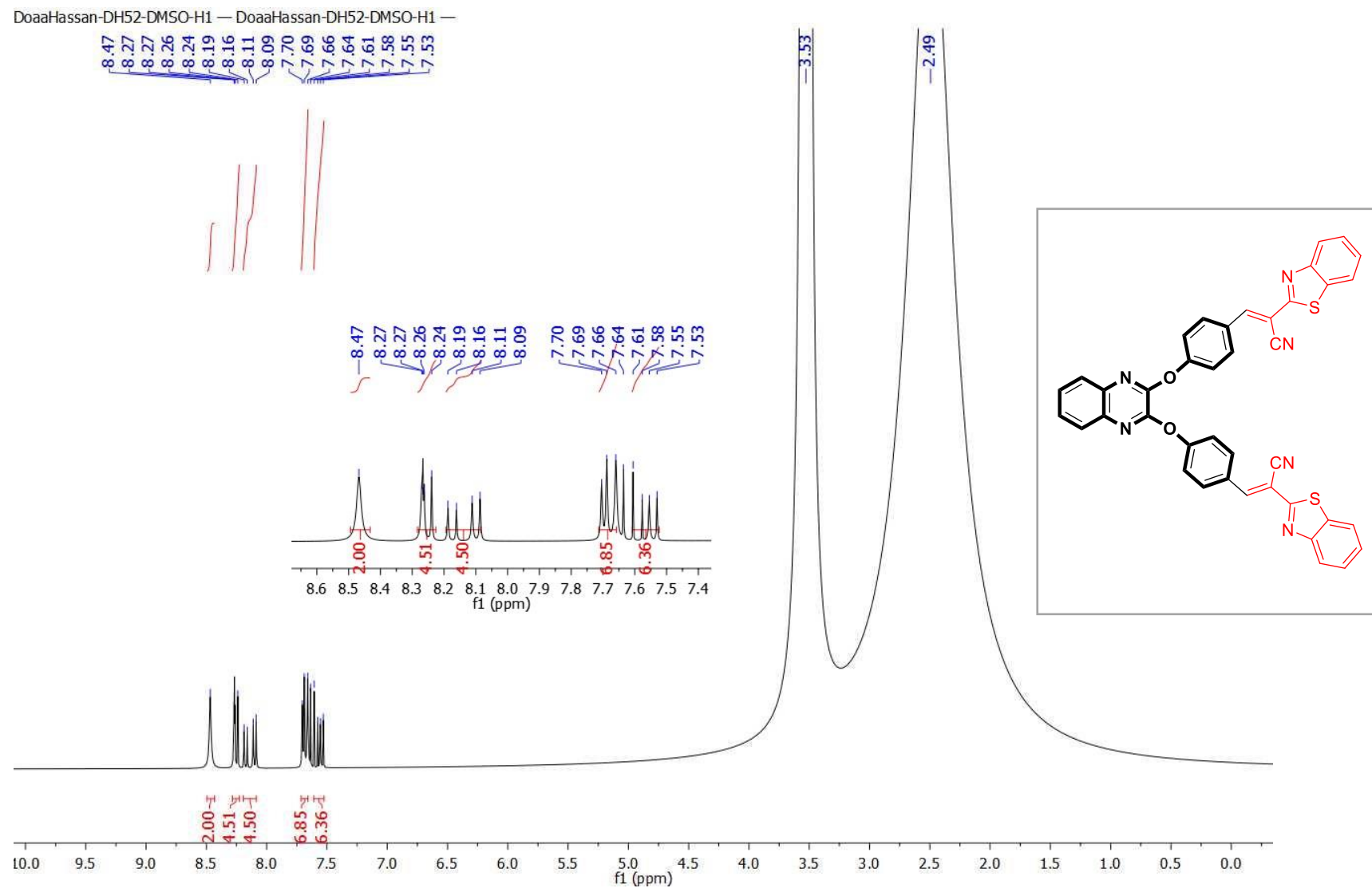


Figure 7. The ¹H NMR spectrum of compound **16**.

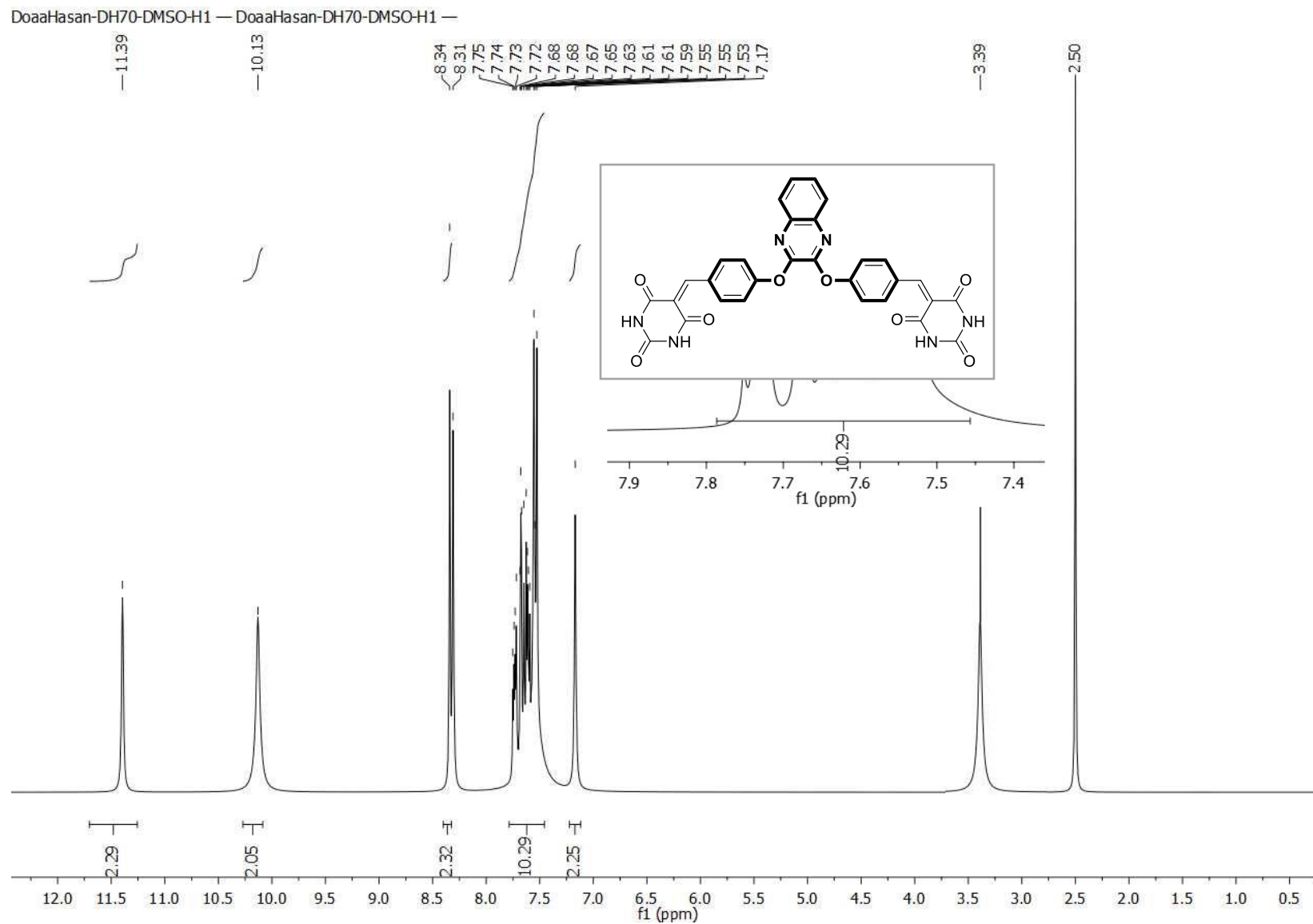


Figure 8. The ^1H NMR spectrum of compound 20.

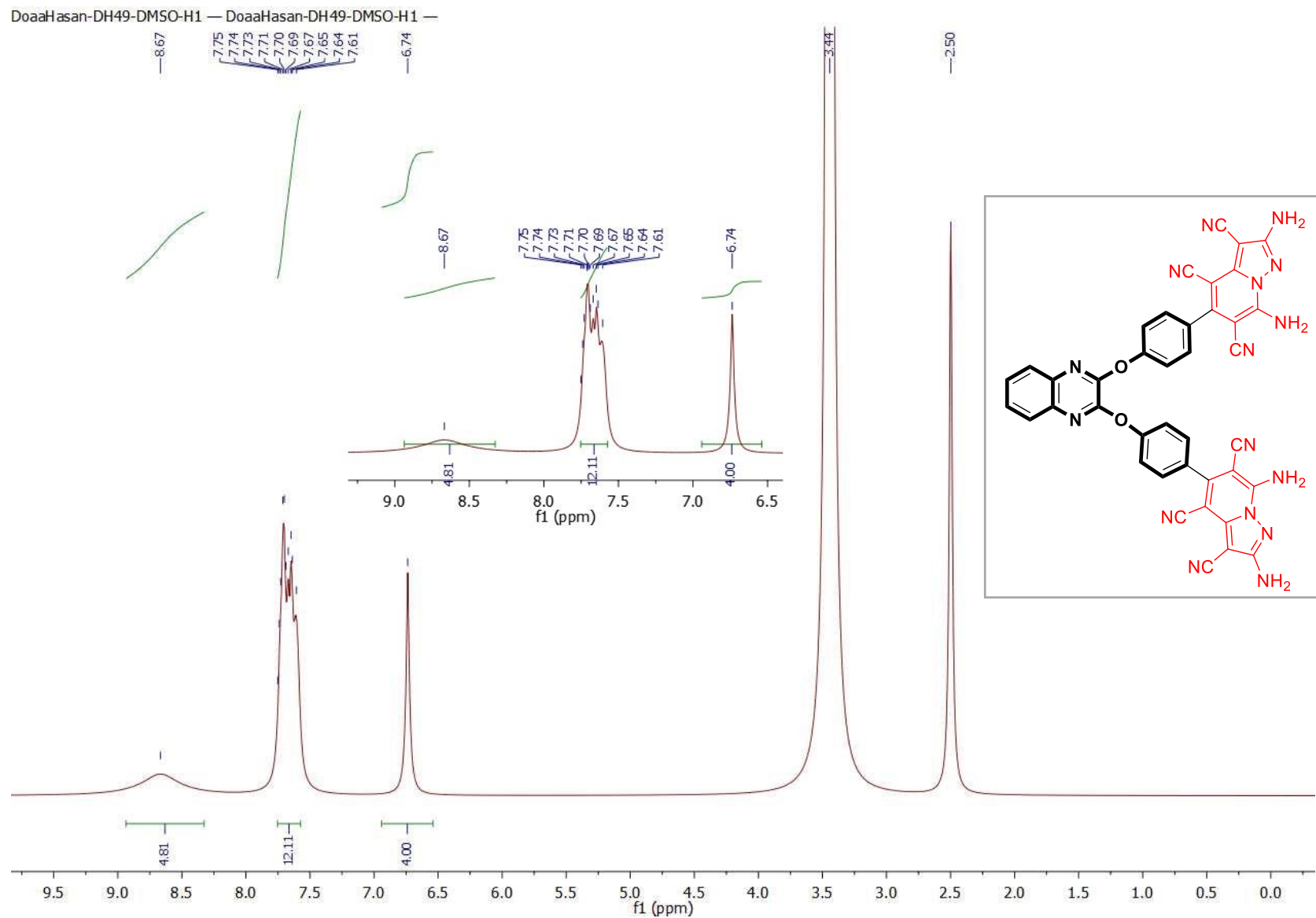


Figure 9. The ^1H NMR spectrum of compound **22**.

2406090220320-Dr.Doaa Hassan-DH49.6.fid — DH49

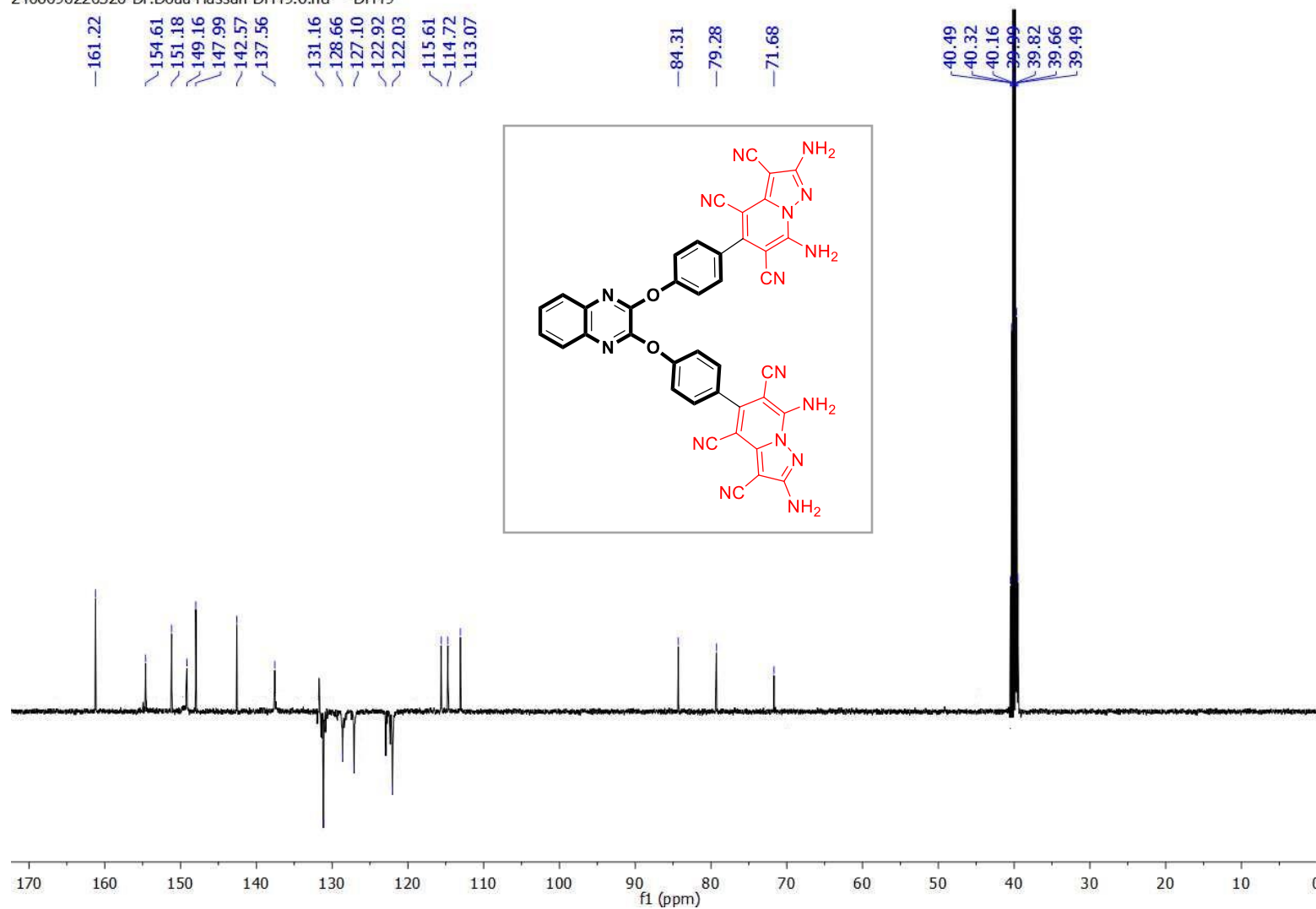
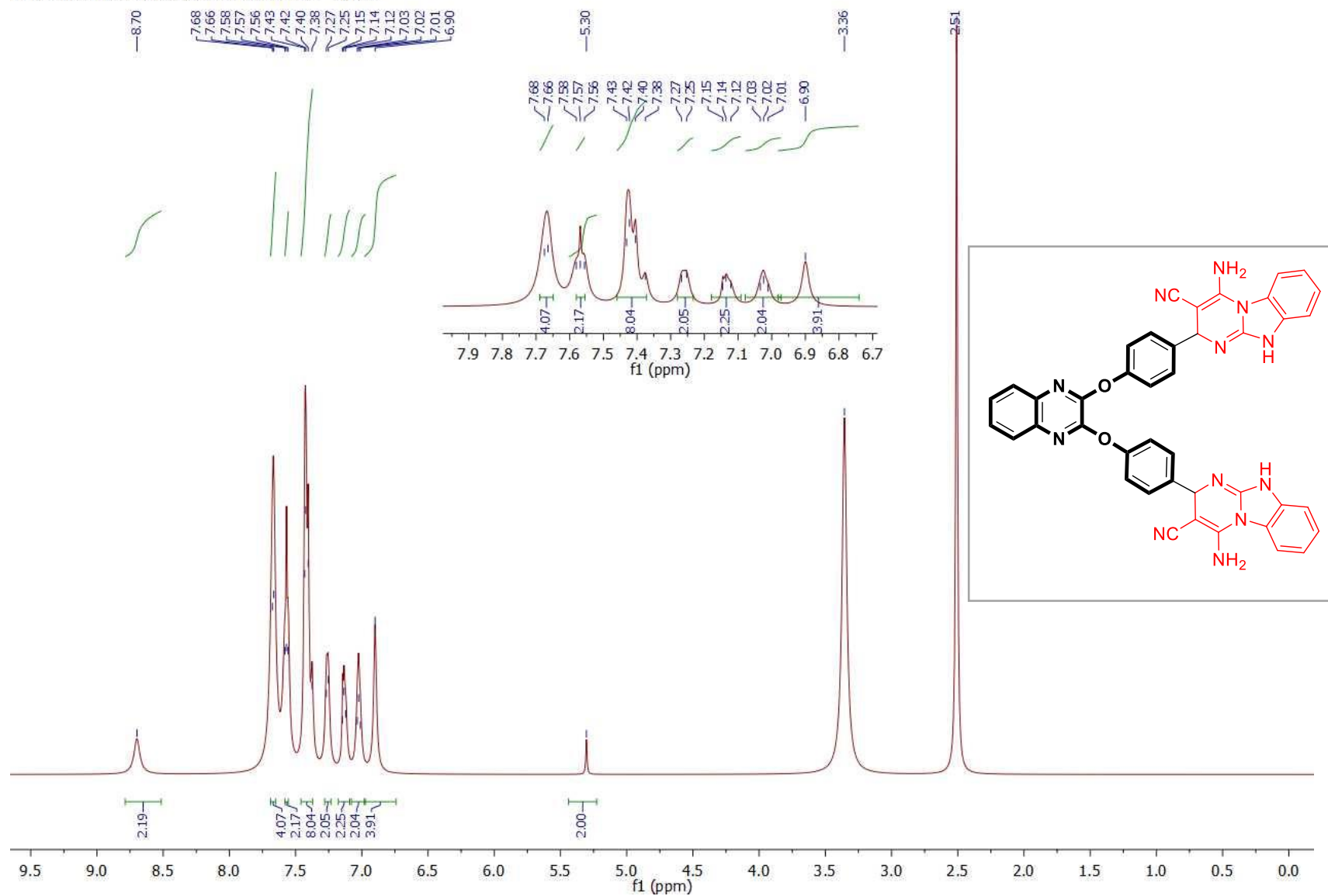


Figure 10. The ^{13}C NMR spectrum of compound 22.

2406090130311-Dr.Doaa Hassan-DH59.7.fid — DH59

**Figure 11.** The ^1H NMR spectrum of compound 27.

2406090140312-Dr.Doaa Hassan-DH59.8.fid — DH59

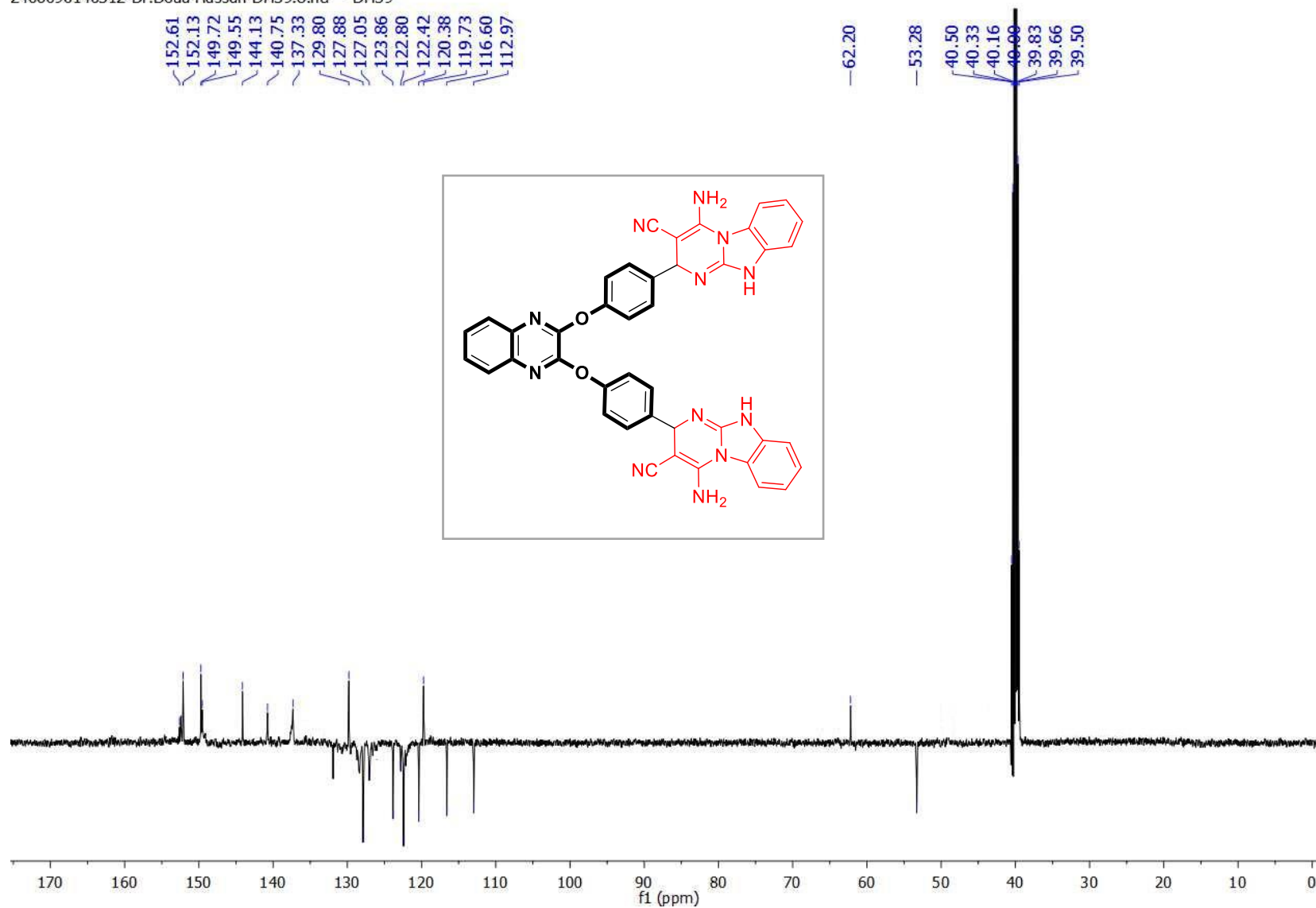


Figure 12. The ^{13}C NMR spectrum of compound 27.