

NMR Spectra

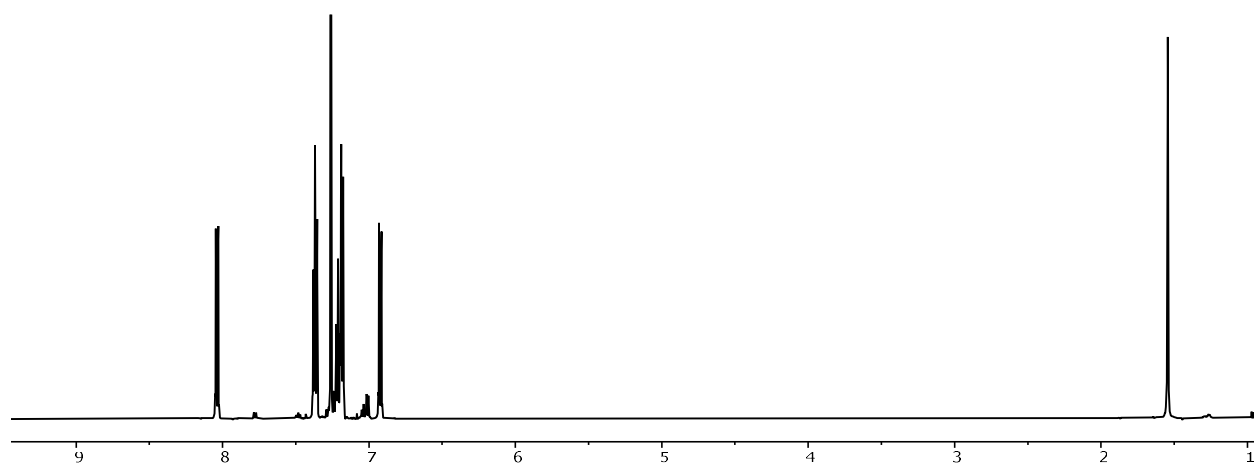


Figure S1. ^1H NMR spectrum of **3** in CDCl_3 at 298 K.

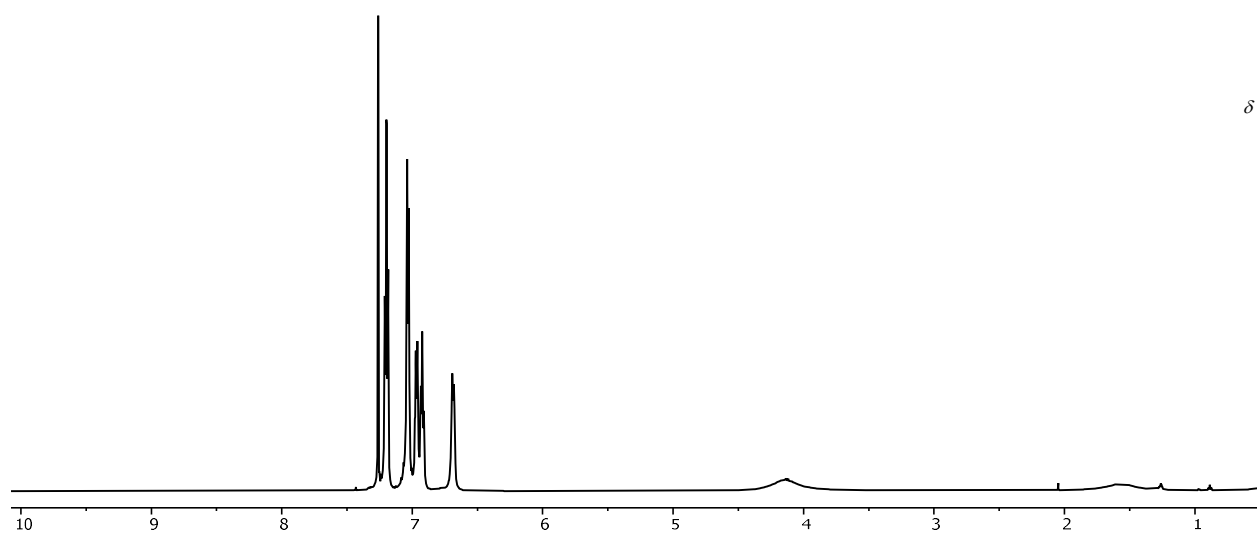


Figure S2. ^1H NMR spectrum of **4** in CDCl_3 at 298 K.

δ

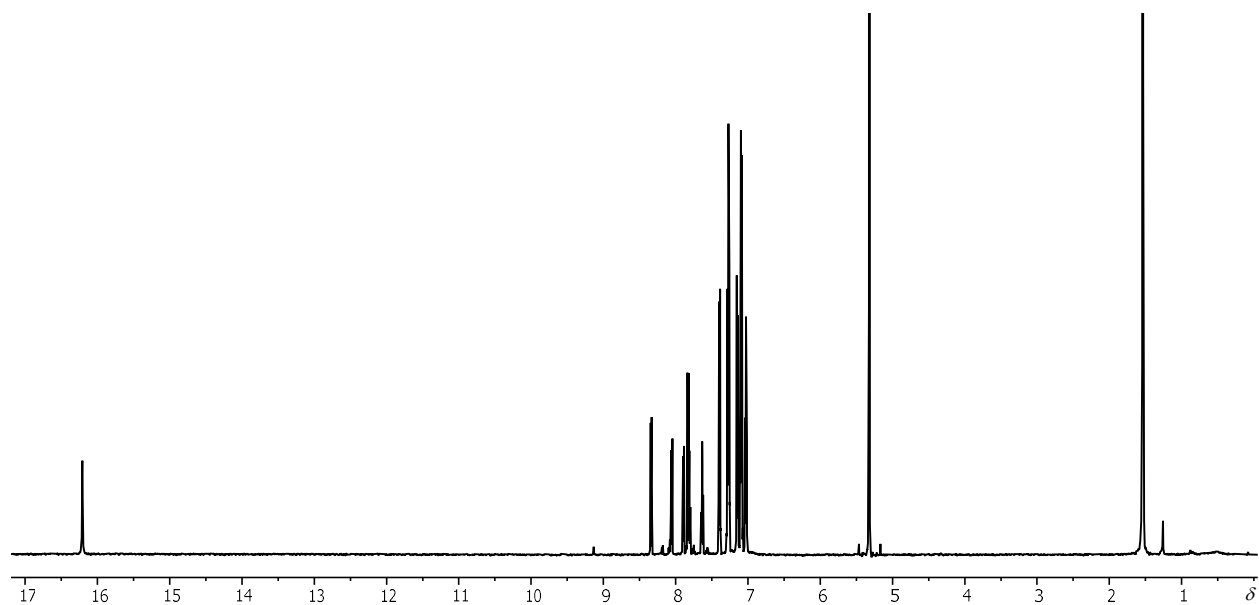


Figure S3. ^1H NMR spectrum of **1** (contains a small percentage of the *Z* isomer) in CD_2Cl_2 at 298 K.

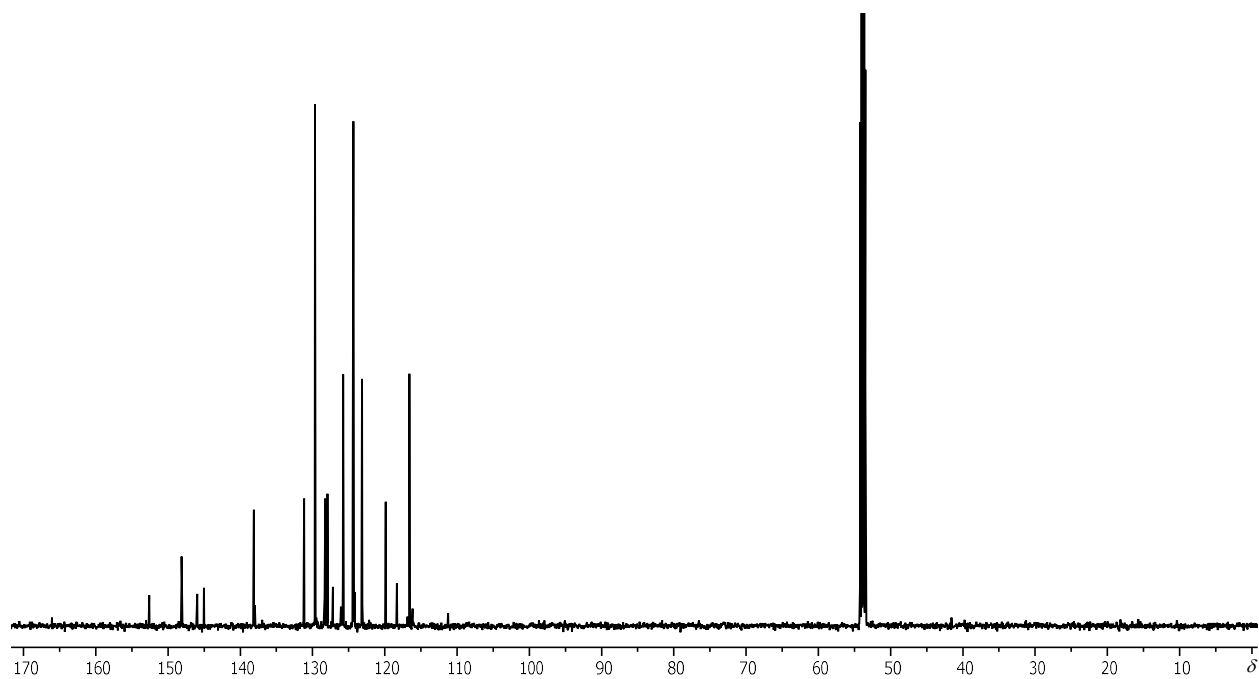


Figure S4. ^{13}C NMR spectrum of **1** (contains a small percentage of the *Z* isomer) in CD_2Cl_2 at 298 K.

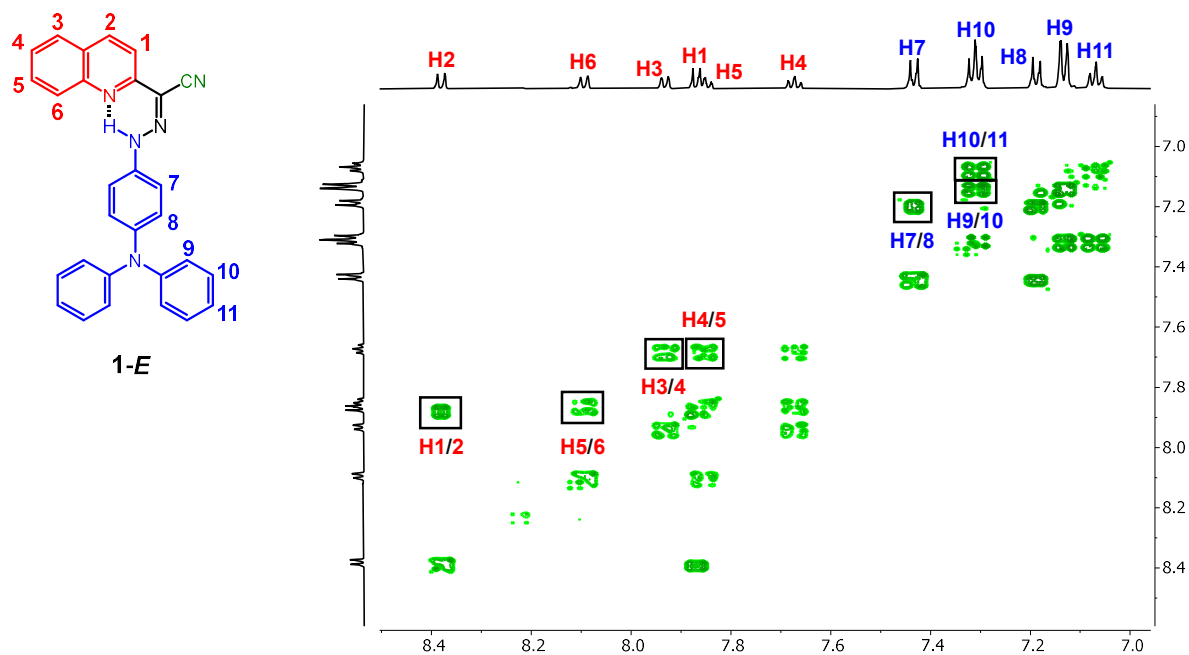


Figure S5. 2D COSY spectrum of **1-E** in CD_2Cl_2 at 298 K.

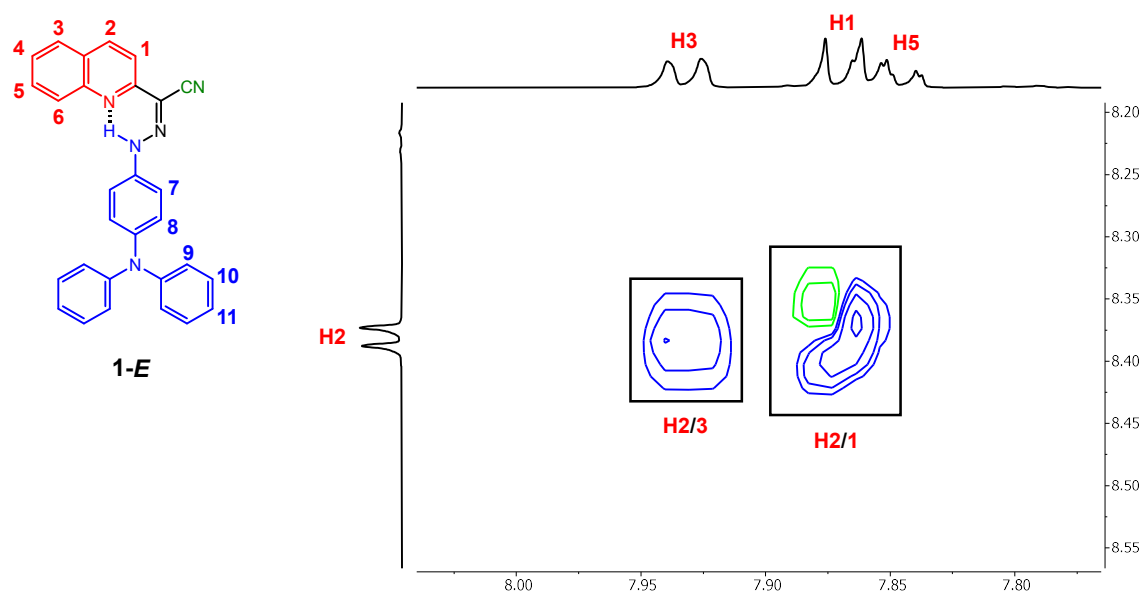


Figure S6. Partial 2D NOESY spectrum of **1-E** in CD_2Cl_2 at 298 K.

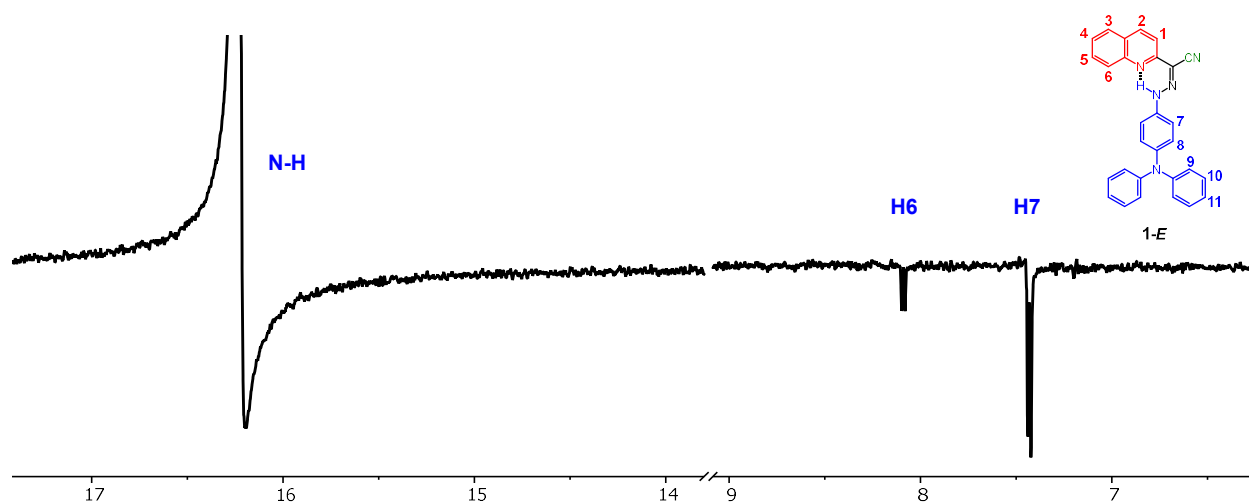


Figure S7. 1D NOESY spectrum of **1-E** in CD_2Cl_2 at 298 K after the irradiation of the N-H proton (at 16.21 ppm). Correlation is seen with protons H6 and H7.

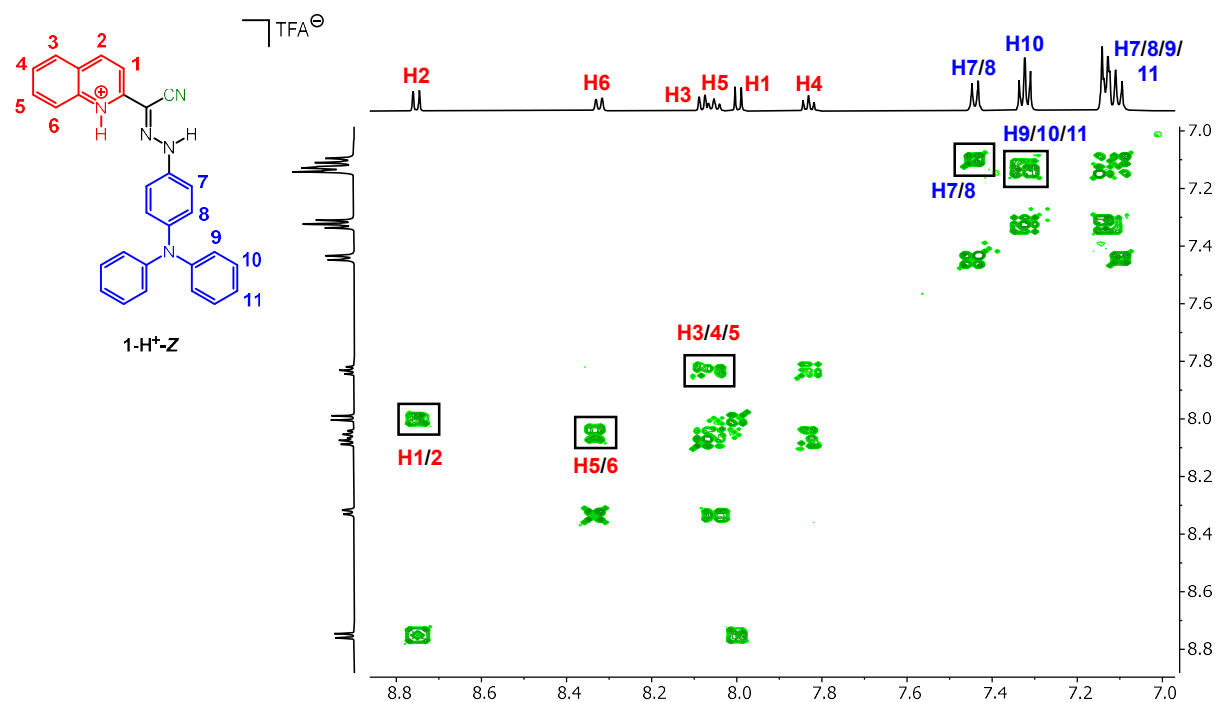


Figure S8. 2D COSY spectrum of **1-H⁺-Z** (trifluoroacetate salt) in CD_2Cl_2 at 298 K.

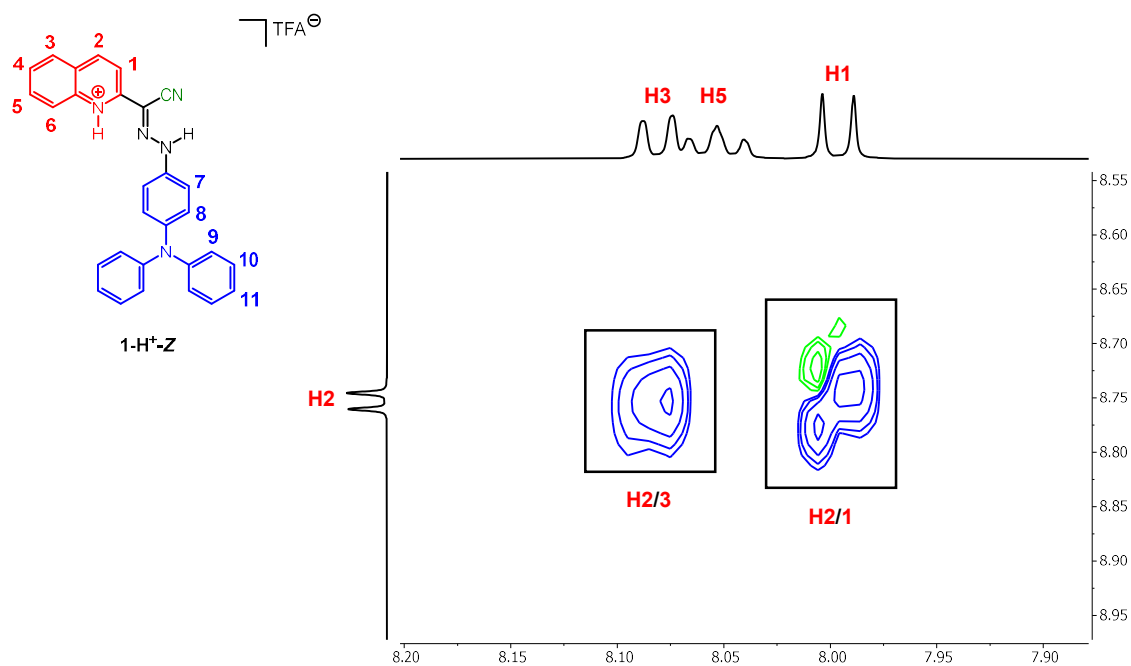


Figure S9. Partial 2D NOESY spectrum of **1-H⁺-Z** (trifluoroacetate salt) in CD₂Cl₂ at 298 K.

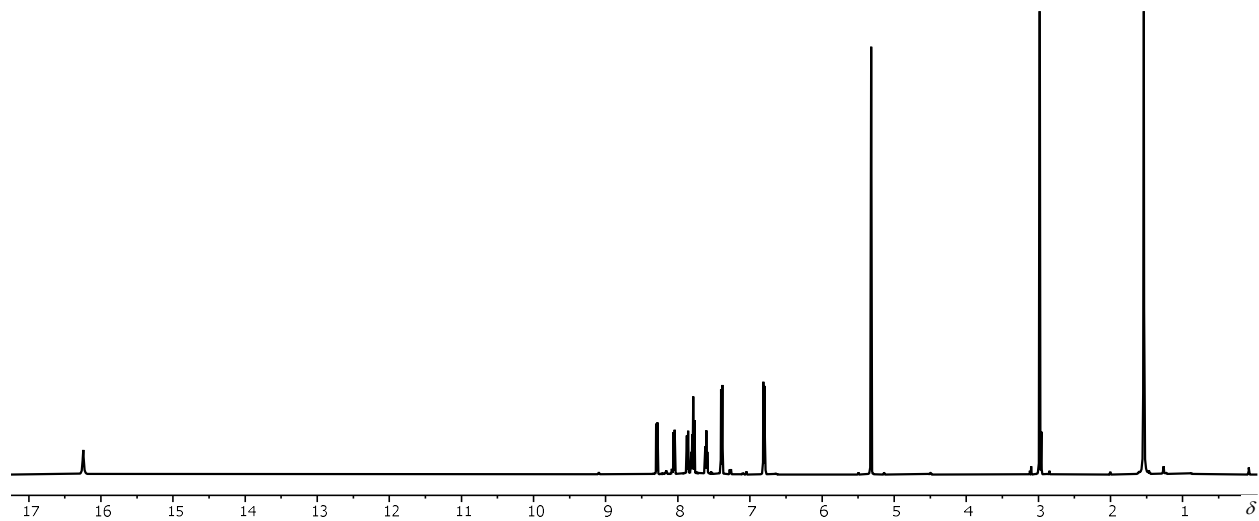


Figure S10. ¹H NMR spectrum of **2** (contains a small percentage of the Z isomer) in CD₂Cl₂ at 298 K.

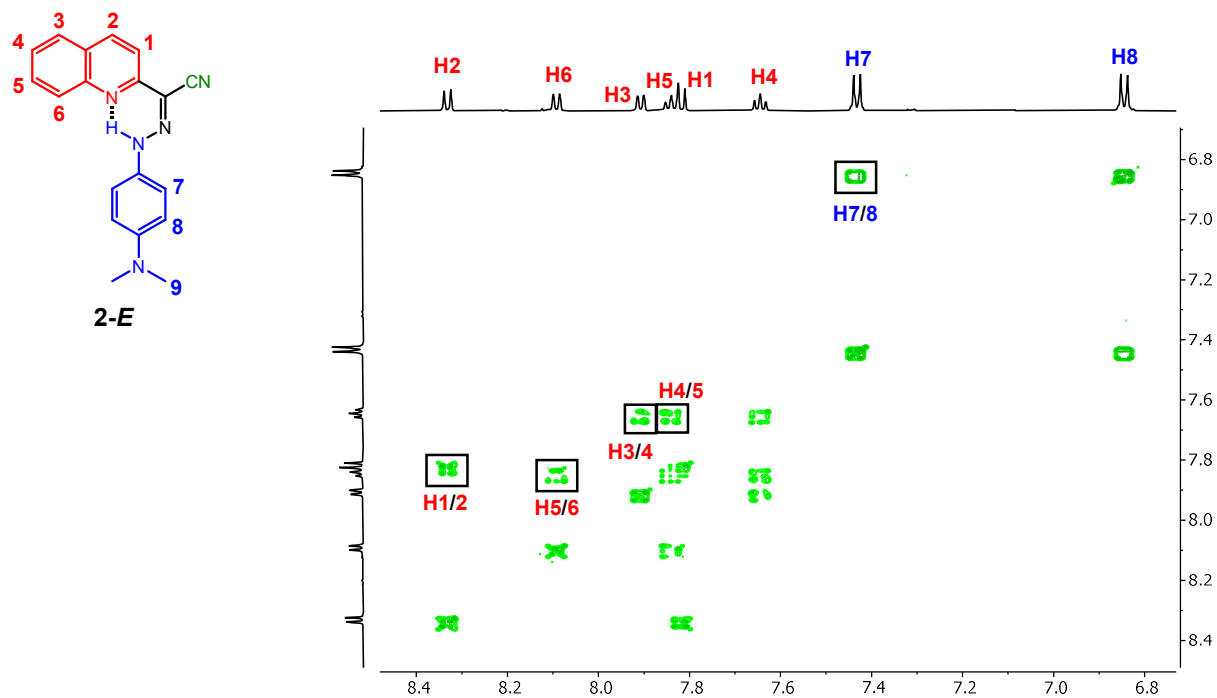


Figure S11. 2D COSY spectrum of **2-E** in CD_2Cl_2 at 298 K.

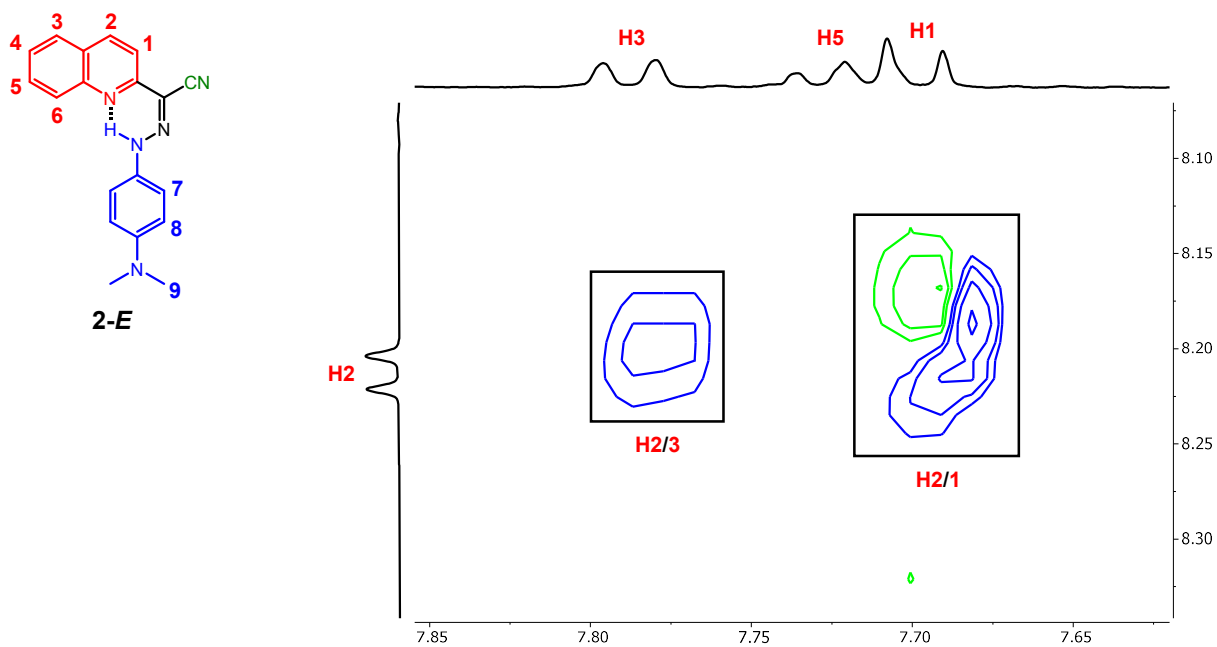


Figure S12. Partial 2D NOESY spectrum of **2-E** in CD_2Cl_2 at 298 K.

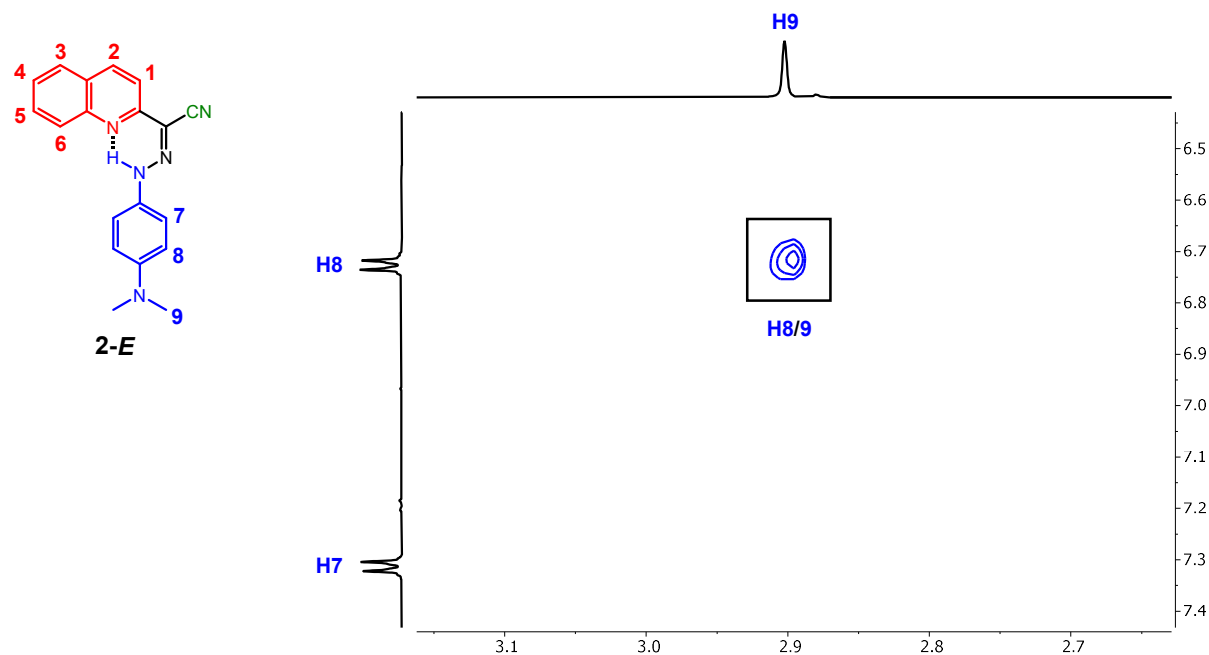


Figure S13. Partial 2D NOESY spectrum of **2-E** in CD₂Cl₂ at 298 K.

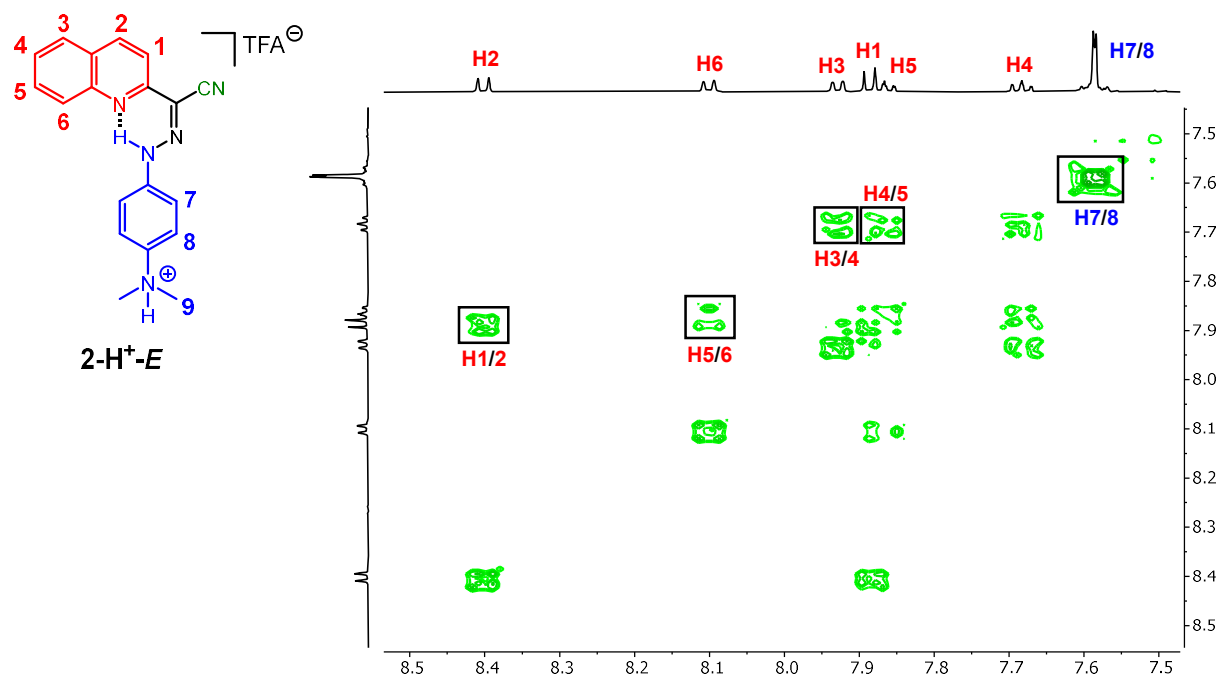


Figure S14. 2D COSY spectrum of **2-H⁺-E** (trifluoroacetate salt) in CD₂Cl₂ at 298 K.

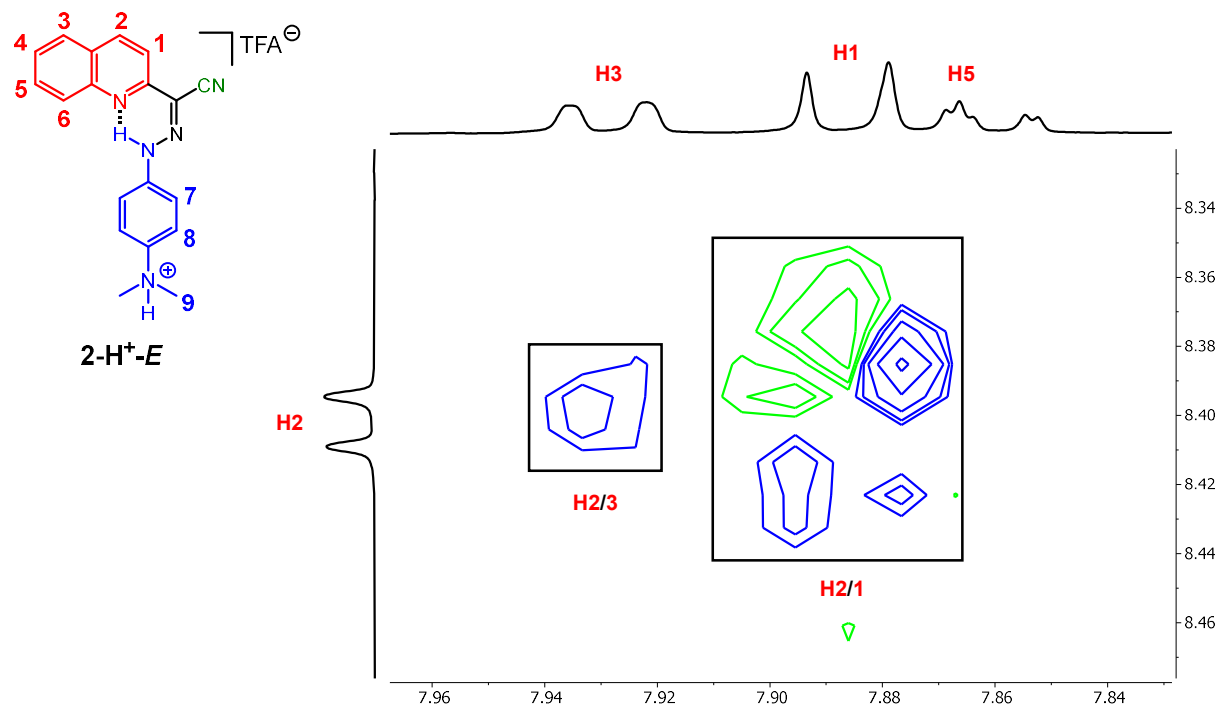


Figure S15. Partial 2D NOESY spectrum of **2-H⁺-E** (trifluoroacetate salt) in CD₂Cl₂ at 298 K.

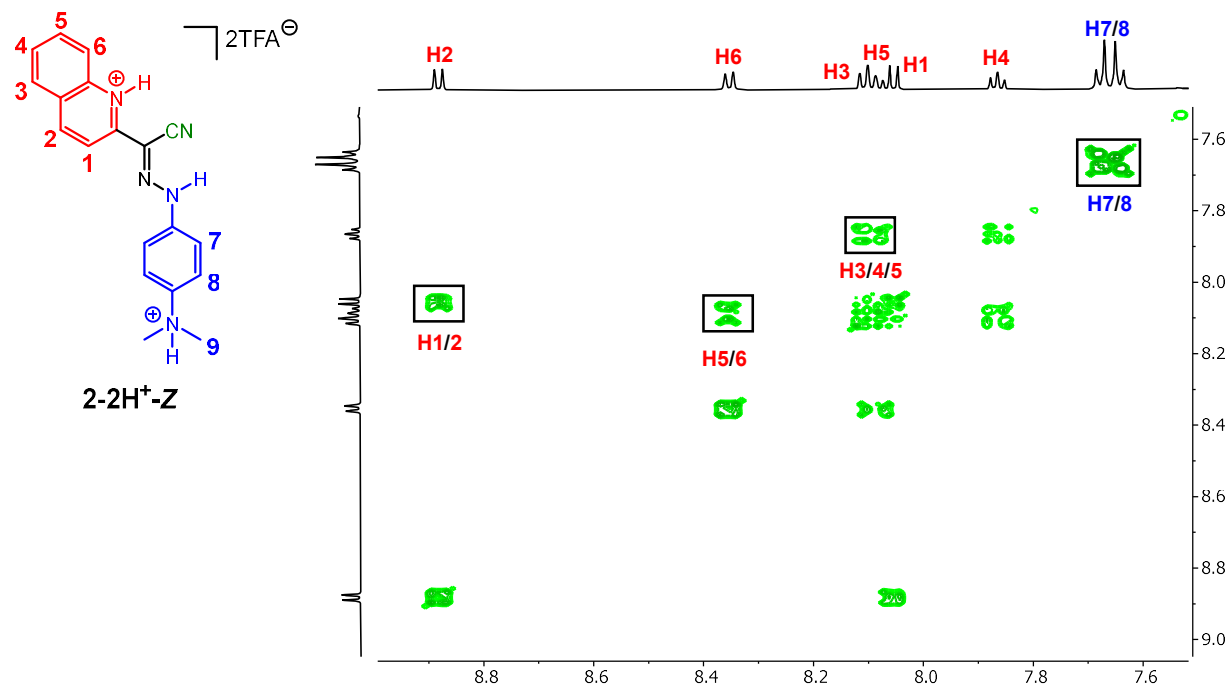


Figure S16. 2D COSY spectrum of **2-2H⁺-Z** (trifluoroacetate salt) in CD₂Cl₂ at 298 K.

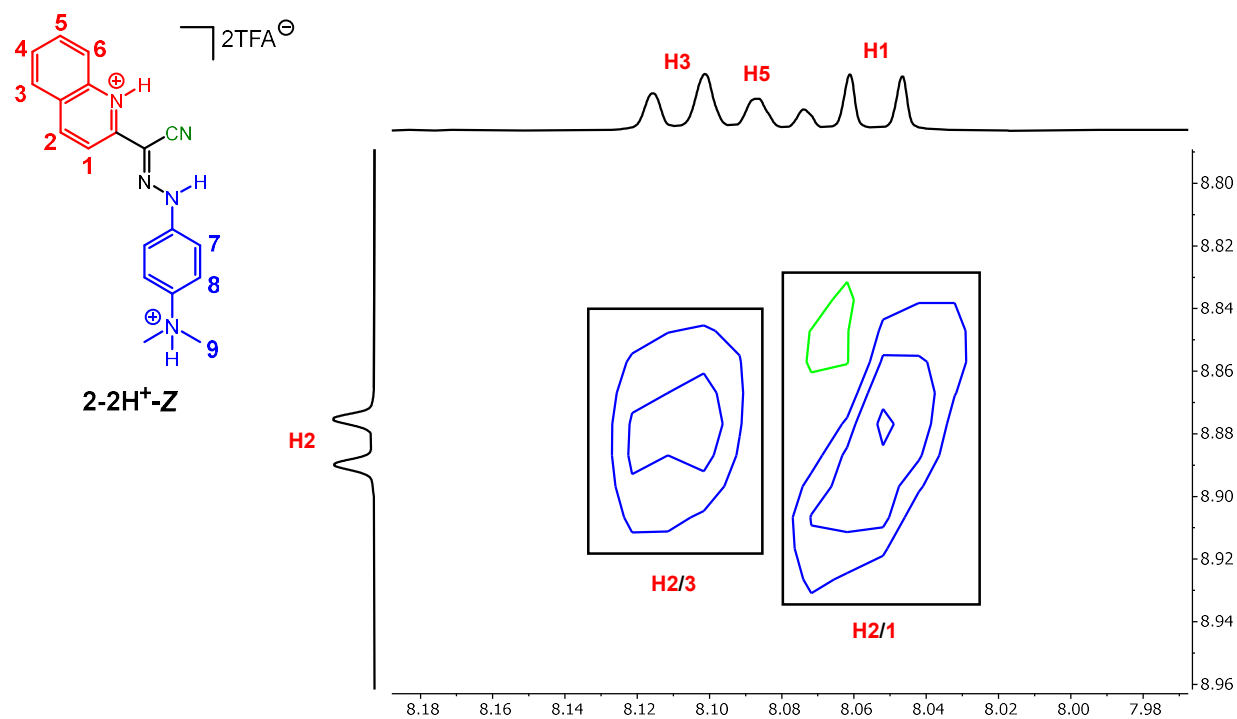


Figure S17. Partial 2D NOESY spectrum of **2-2H⁺-Z** (trifluoroacetate salt) in CD₂Cl₂ at 298 K.

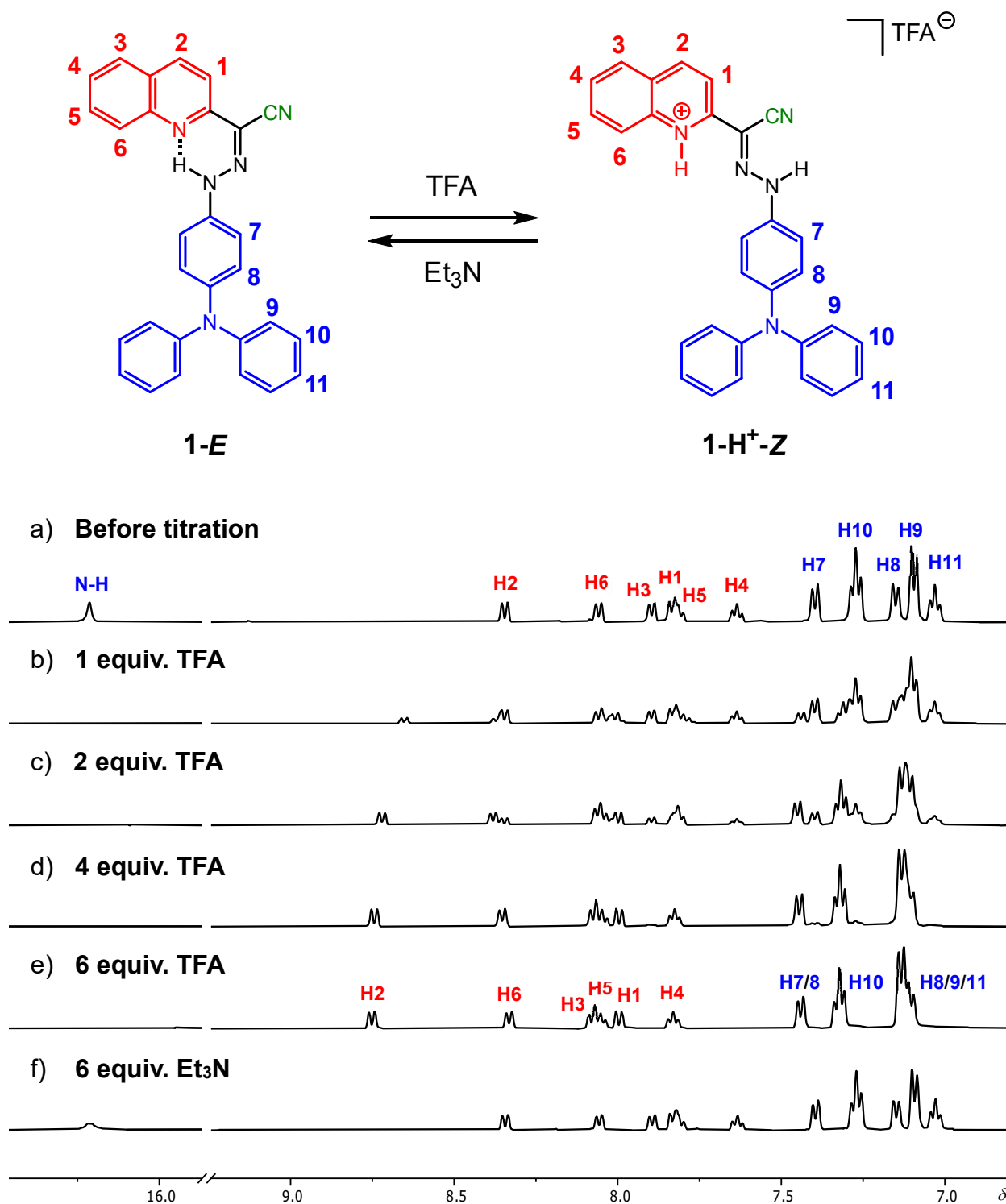


Figure S18. ¹H NMR spectra of the titration of **1-E** (1.0 × 10⁻³ M) with TFA in CD₂Cl₂ at 294 K (a) before and after the sequential addition of (b) 1 equiv. TFA, (c) 2 equiv. TFA, (d) 4 equiv. TFA, (e) 6 equiv. TFA, and (f) 6 equiv. Et₃N.

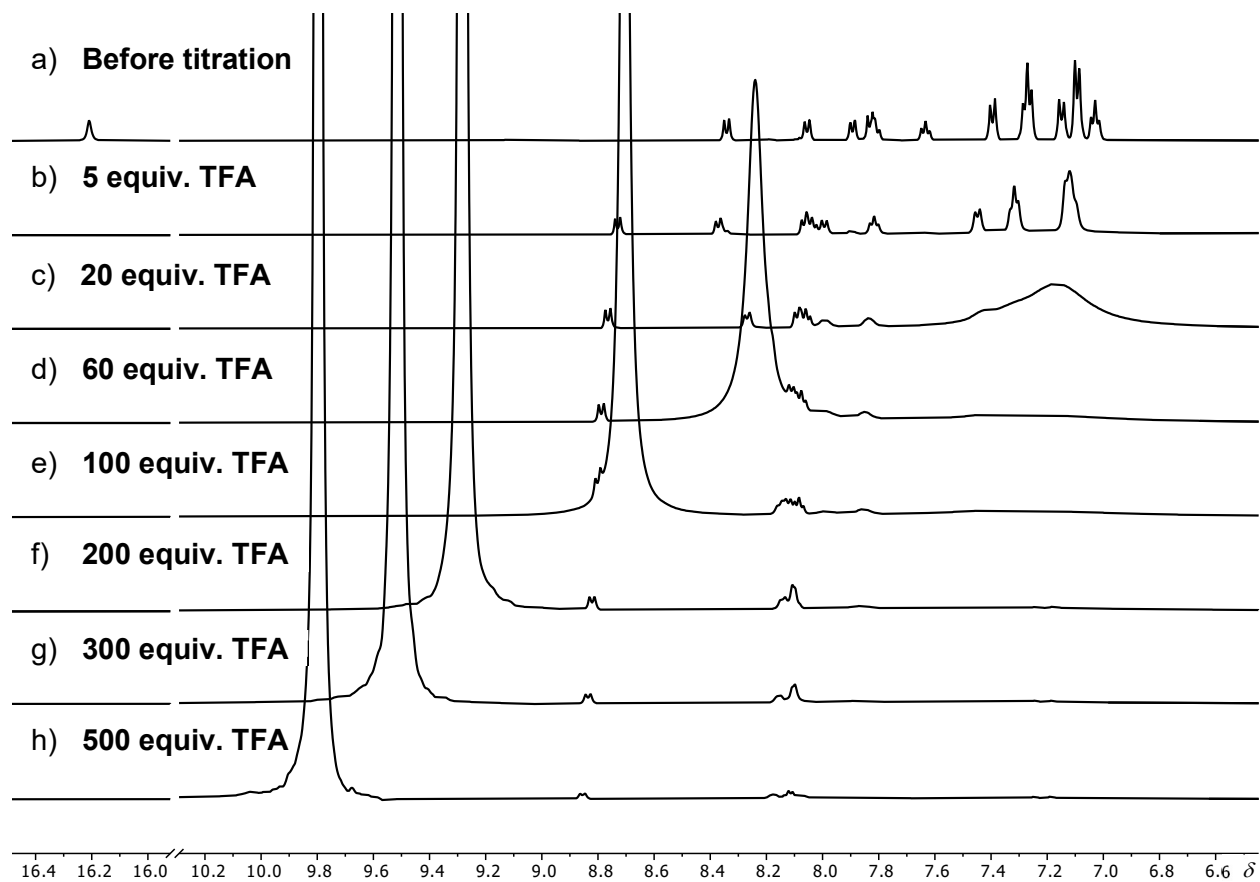


Figure S19. ^1H NMR spectra of the titration of **1-E** (1.0×10^{-3} M) with TFA in CD_2Cl_2 at 294 K (a) before and after the sequential addition of (b) 5 equiv. TFA, (c) 20 equiv. TFA, (d) 60 equiv. TFA, (e) 100 equiv. TFA, (f) 200 equiv. TFA, (g) 300 equiv. TFA, and (h) 500 equiv. TFA.

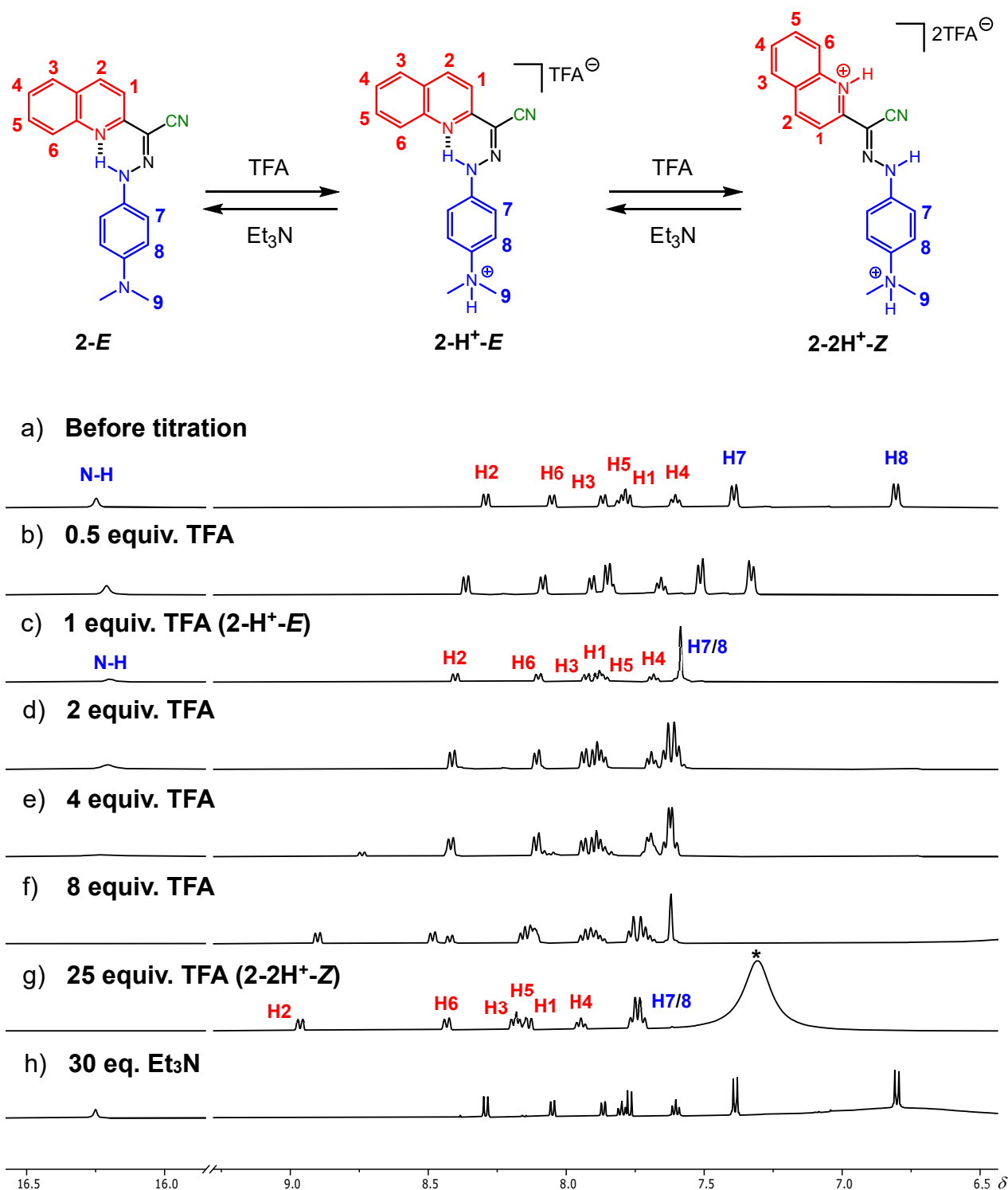


Figure S20. ¹H NMR spectra of the titration of **2-E** (1.0×10^{-3} M) with TFA in CD₂Cl₂ at 294 K (a) before and after the sequential addition of (b) 0.5 equiv. TFA, (c) 1 equiv. TFA, (d) 2 equiv. TFA, (e) 4 equiv. TFA, (f) 8 equiv. TFA, (g) 25 equiv. TFA, and (h) 30 equiv. Et₃N. *The broadened peak arises from the averaged signal of the TFA, hydrazone N-H, and quinolinyl N-H⁺ protons, which are in fast exchange.