## **Supplementary Data**

## Journal: New Journal of Chemistry

Synthesis, characterization, antibacterial, antioxidant, DNA binding and SAR study of novel pyrazine moiety bearing 2-pyrazoline derivatives

Bheru Singh Kitawata and Man Singh\*a

<sup>a</sup>School of Chemical Sciences, Central University of Gujarat, Gandhinagar-382030 (India)

E-mail: mansingh50@hotmail.com, Tel.: +91-079-232-60210; fax: +91-079-232-60076

1. <sup>1</sup> H NMR and <sup>13</sup>C NMR spectra of compounds **4a-4l**.

Figure S1: 1H NMR spectra of 4a

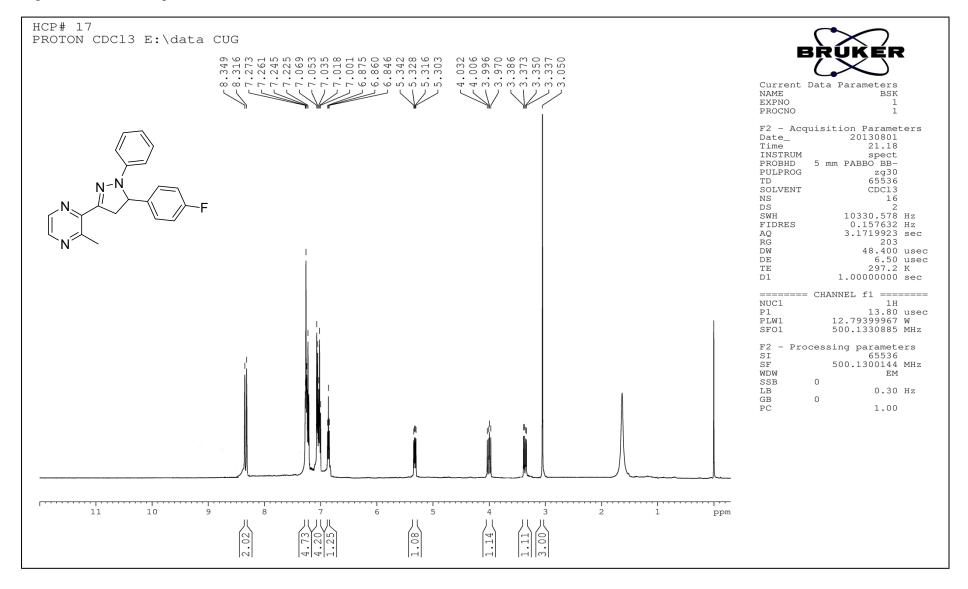


Figure S2: 13C NMR spectra of 4a

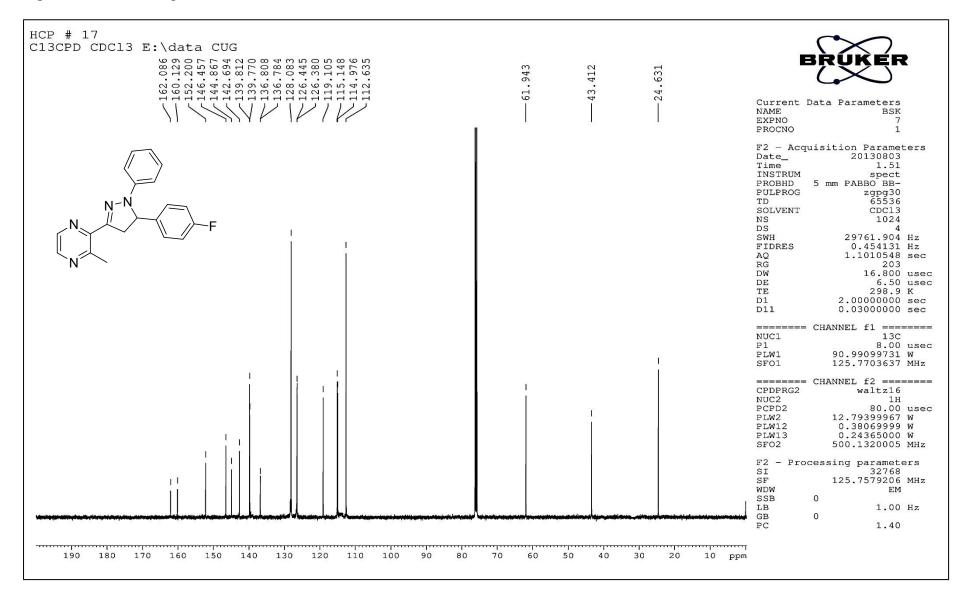


Figure S3: 1H NMR spectra of 4b

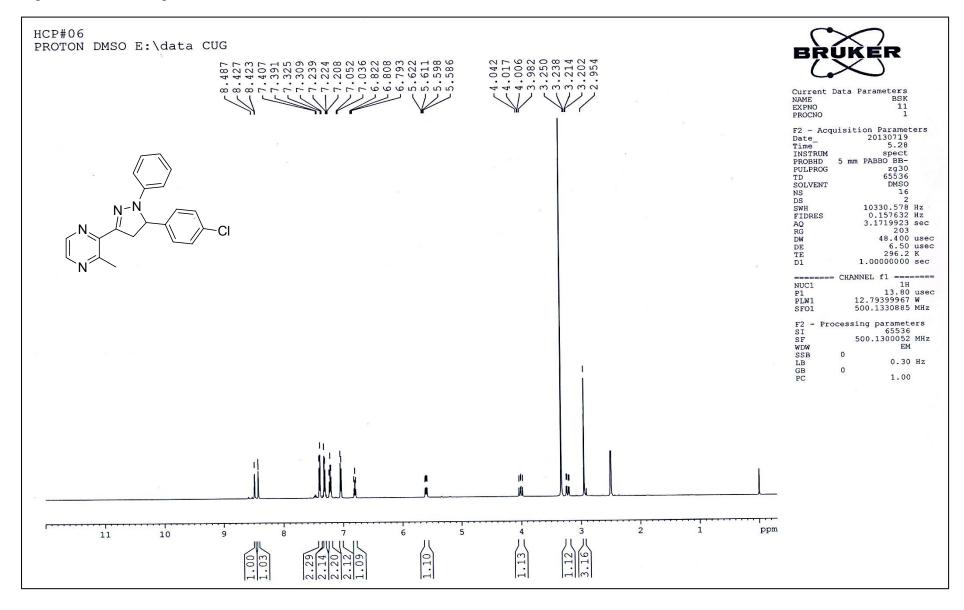


Figure S4: 13C NMR spectra of 4b

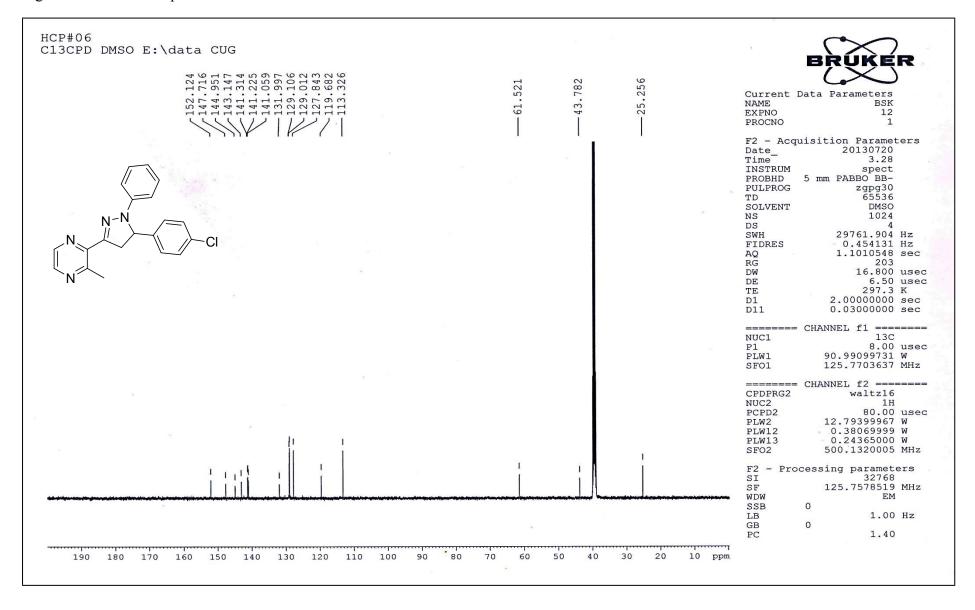


Figure S5: 1H NMR spectra of 4c

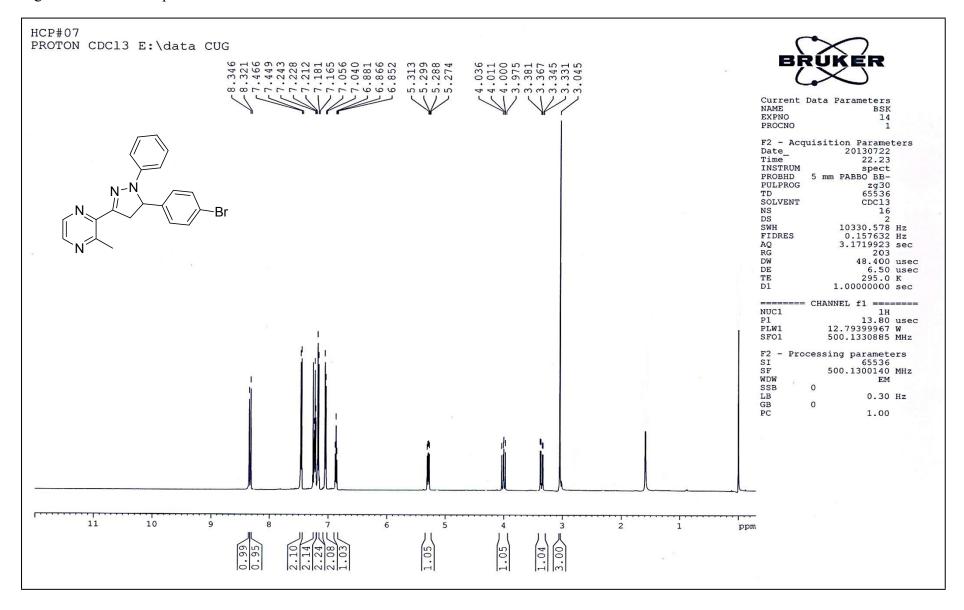


Figure S6: 13 NMR spectra of 4c

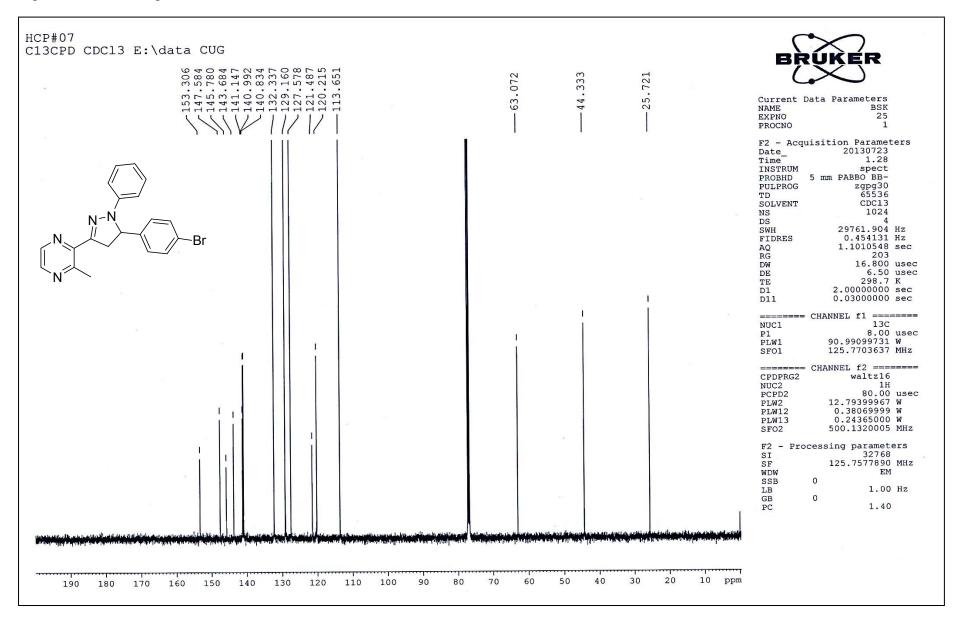


Figure S7: 1H NMR spectra of 4d

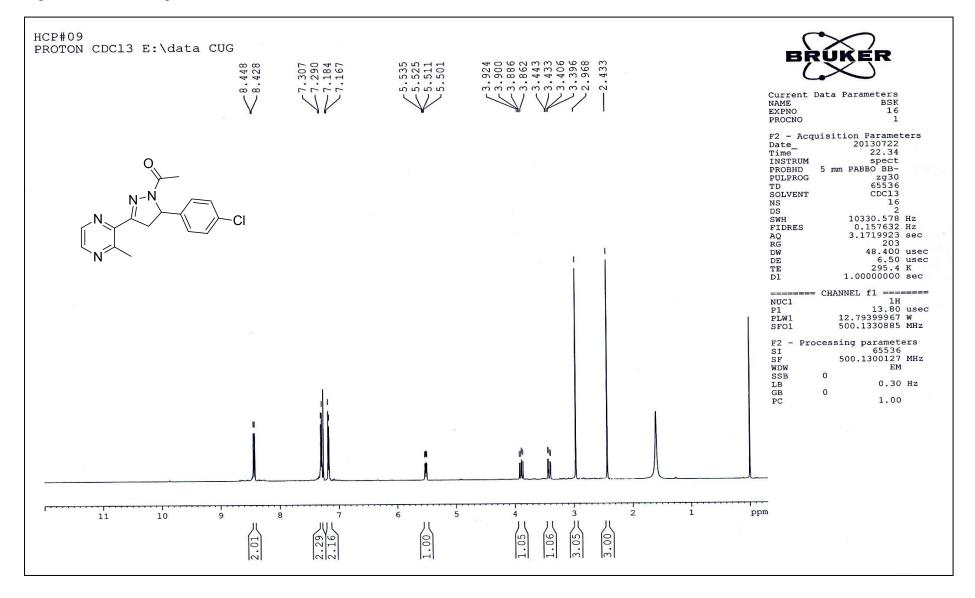


Figure S8: 13C NMR spectra of 4d

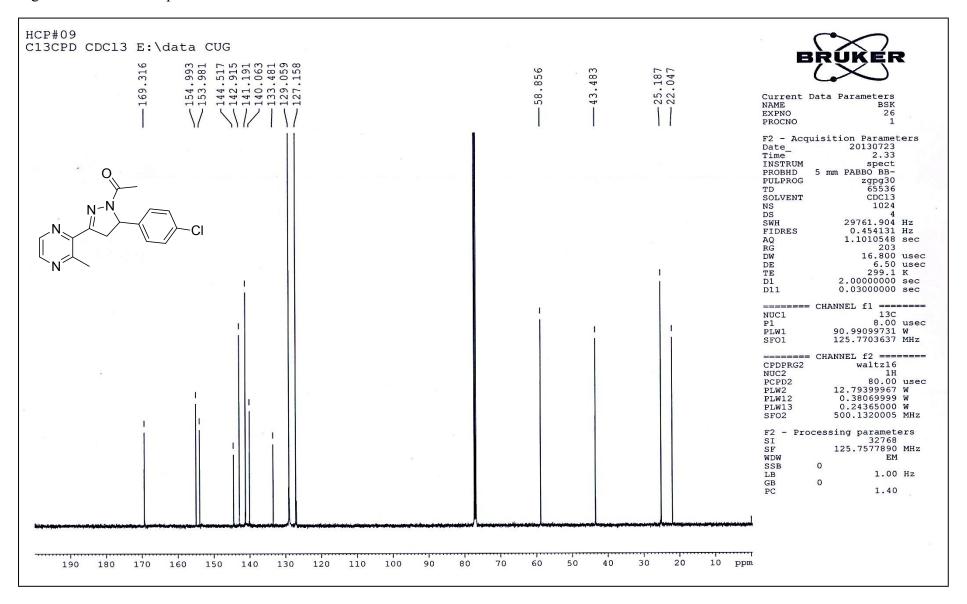


Figure S9: 1H NMR spectra of 4e

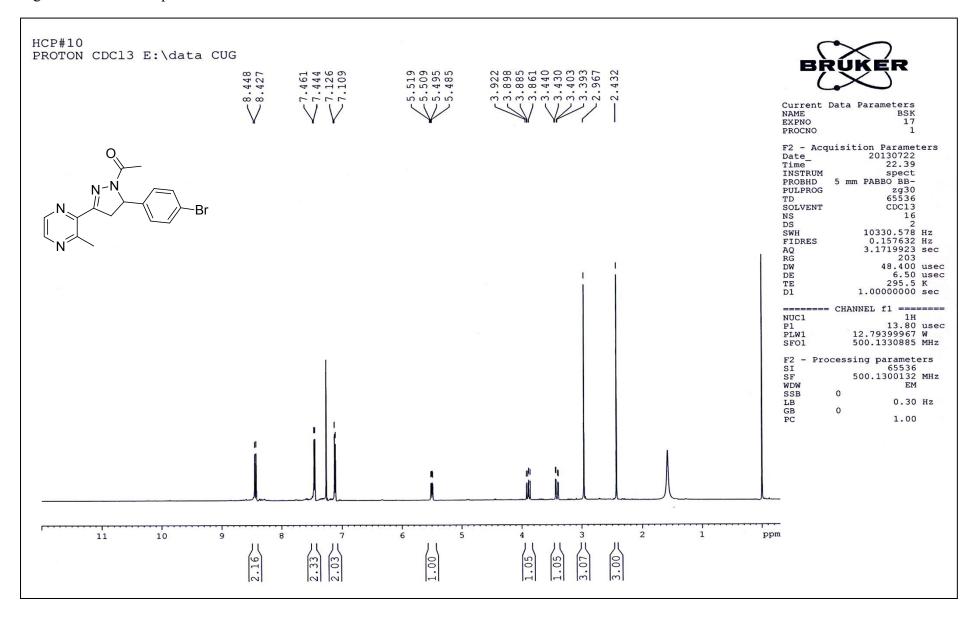


Figure S10: 13C NMR spectra of 4e

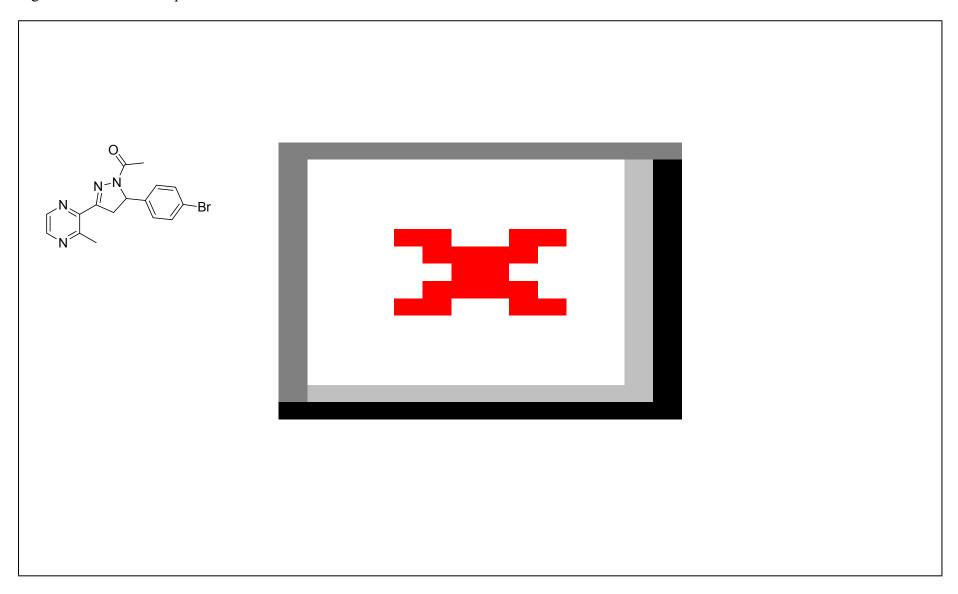


Figure S11: 1H NMR spectra of 4f

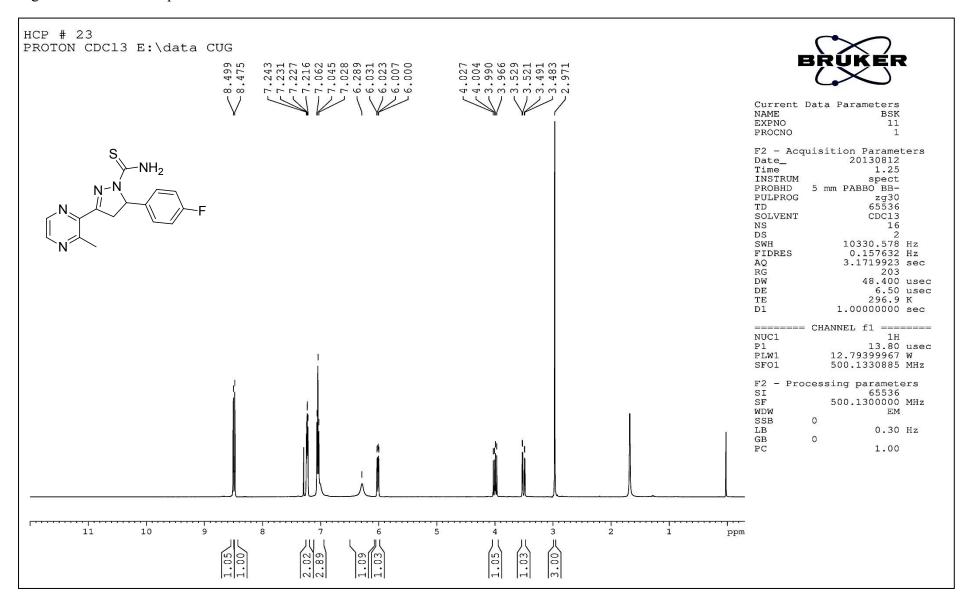


Figure S12: 13C NMR spectra of 4f

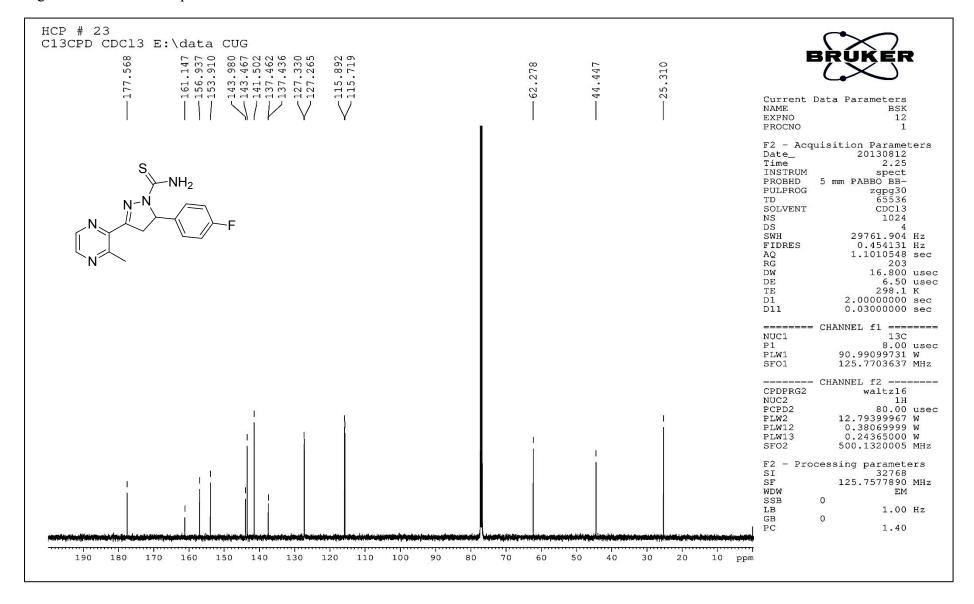


Figure S13: 1H NMR spectra of 4g

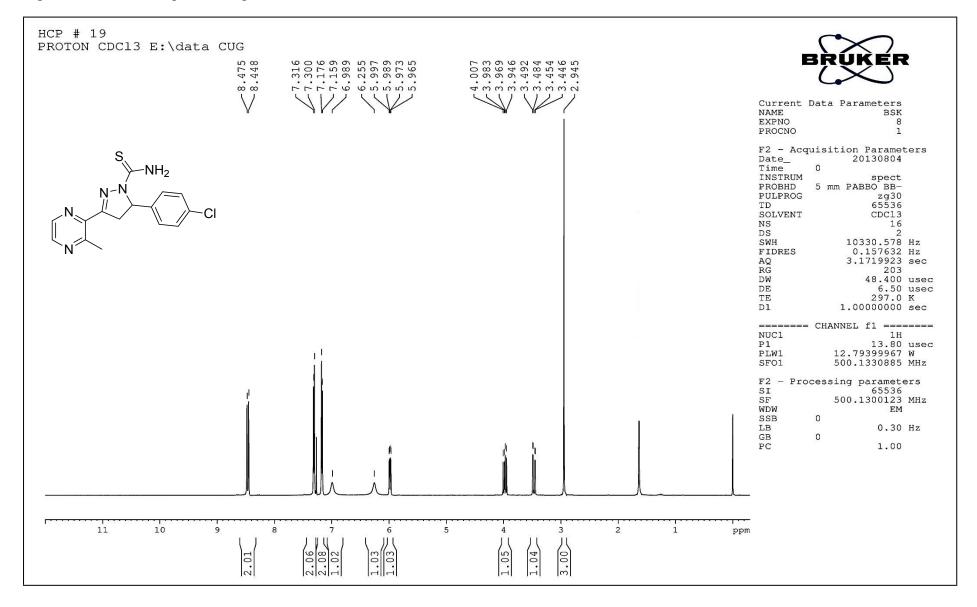


Figure S14: 13C NMR spectra of 4g

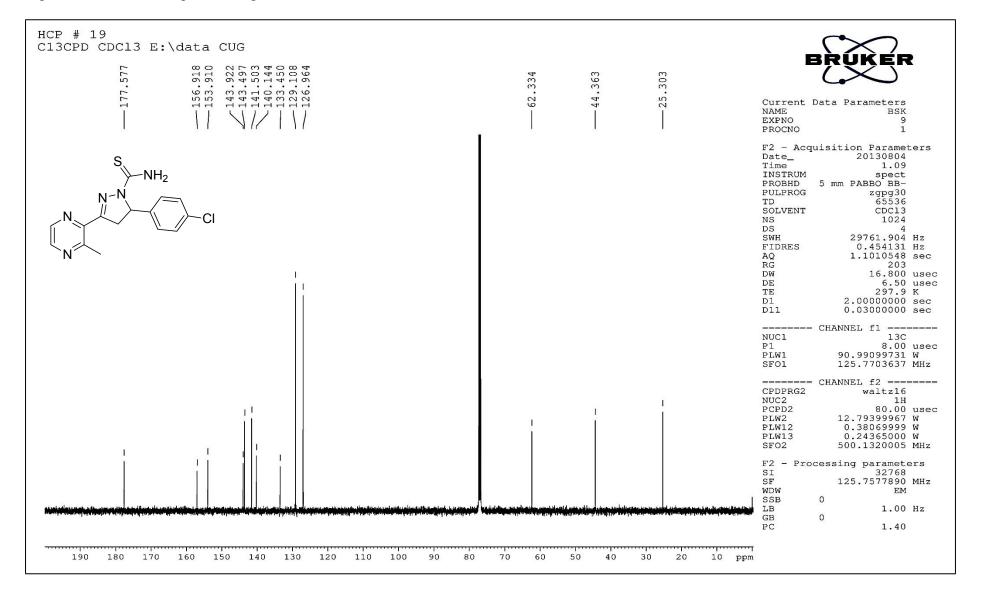


Figure S15: 1H NMR spectra of 4h

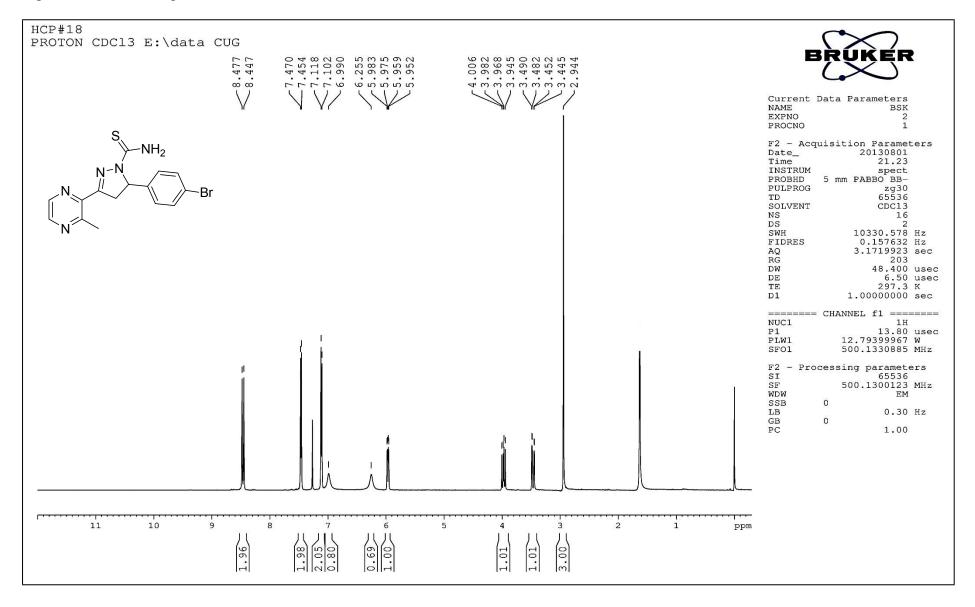


Figure S16: 13C NMR spectra of 4h

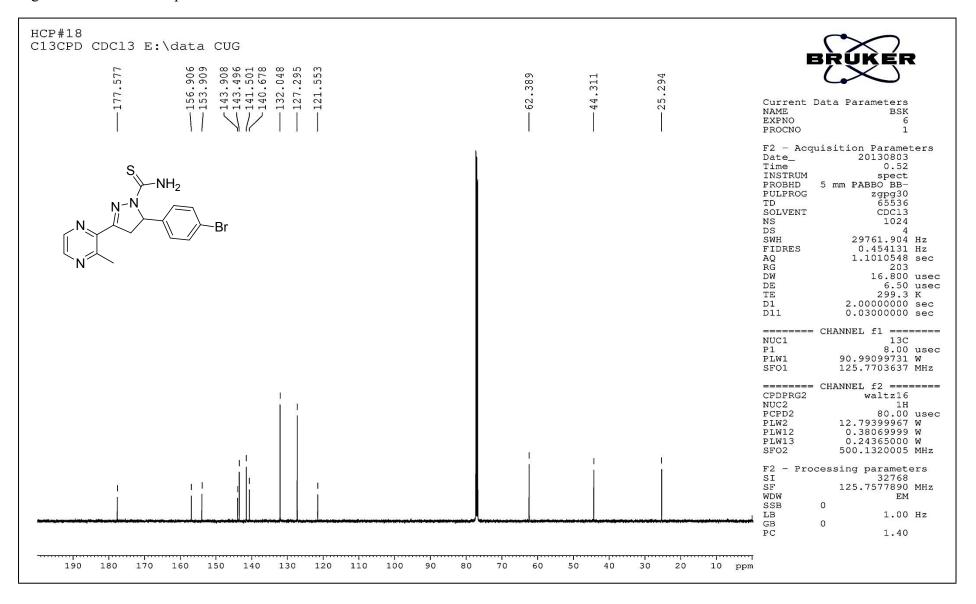


Figure S17: 1H NMR spectra of 4i

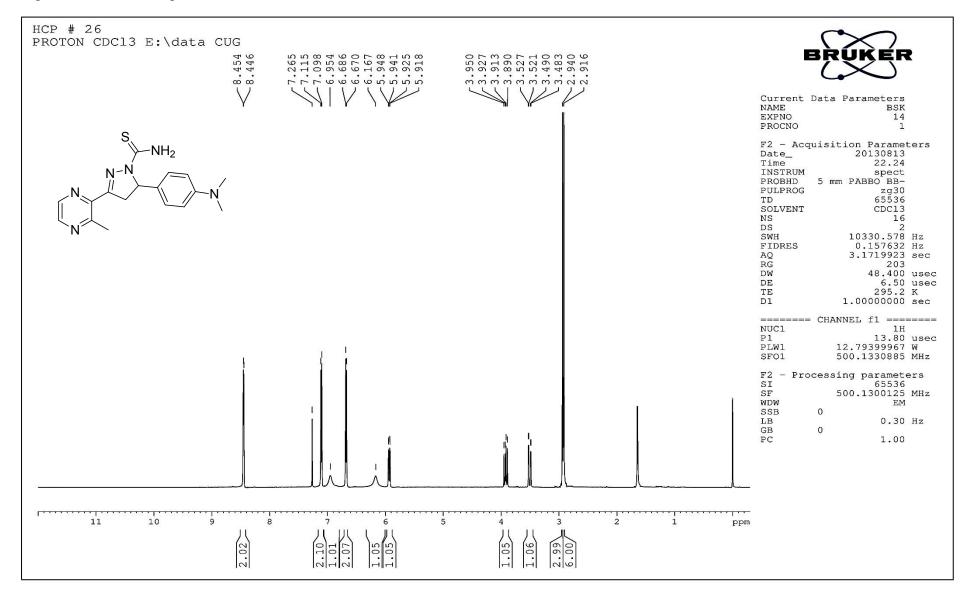


Figure S18: 13C NMR spectra of 4i

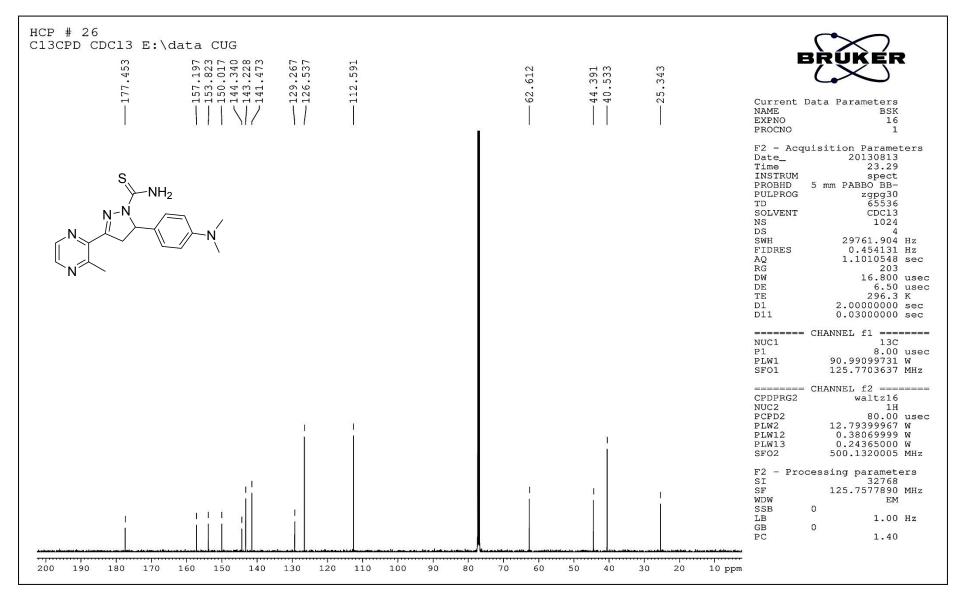


Figure S19: 1H NMR spectra of 4j

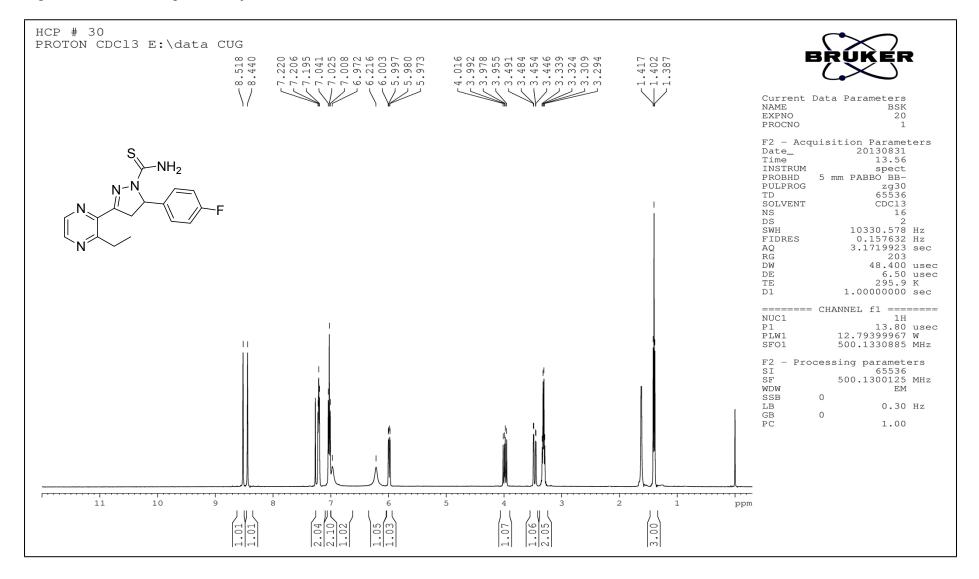


Figure S20: 13C NMR spectra of 4j

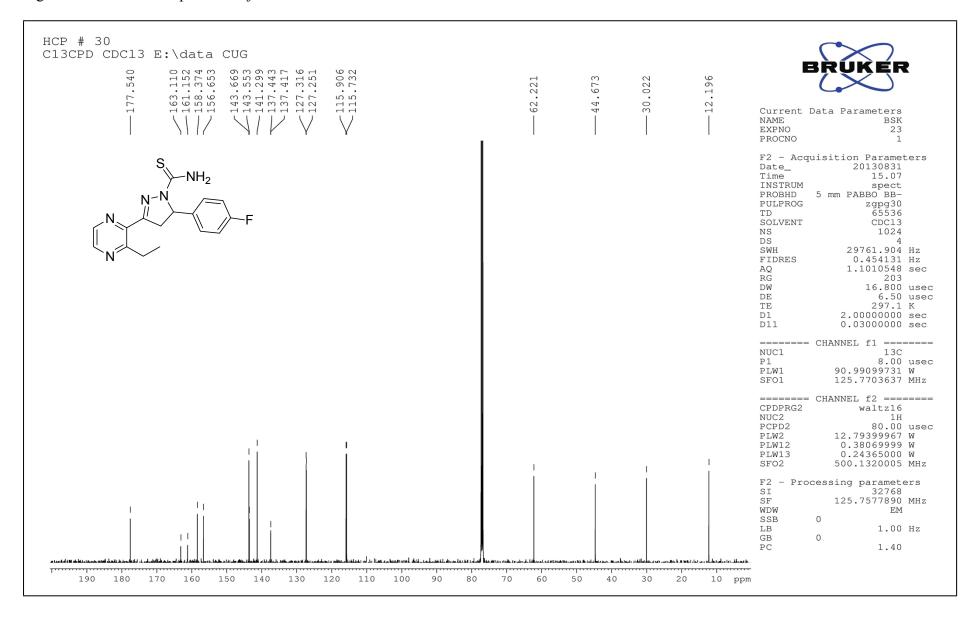


Figure S21: 1H NMR spectra of 4k

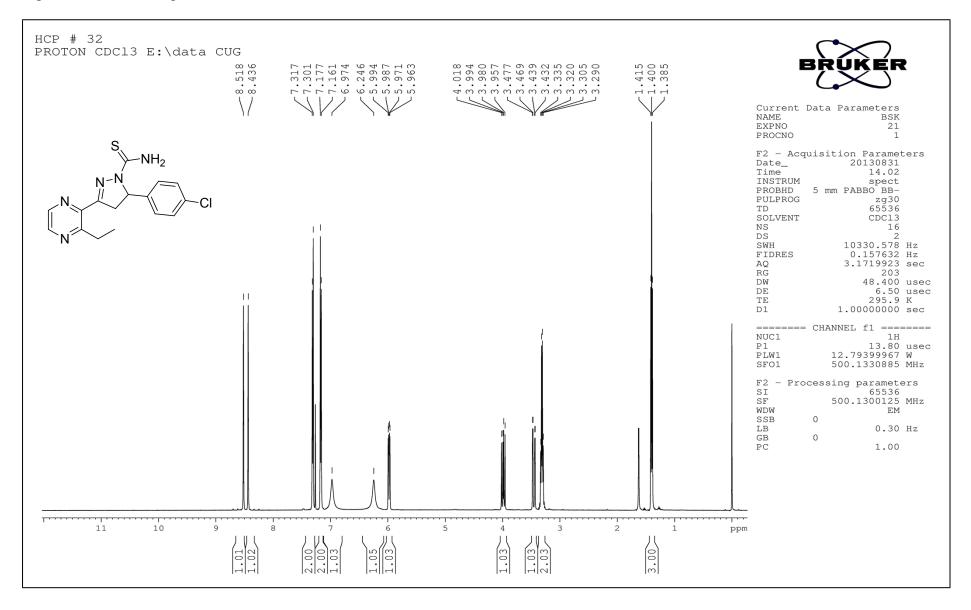


Figure S22: 13C NMR spectra of 4k

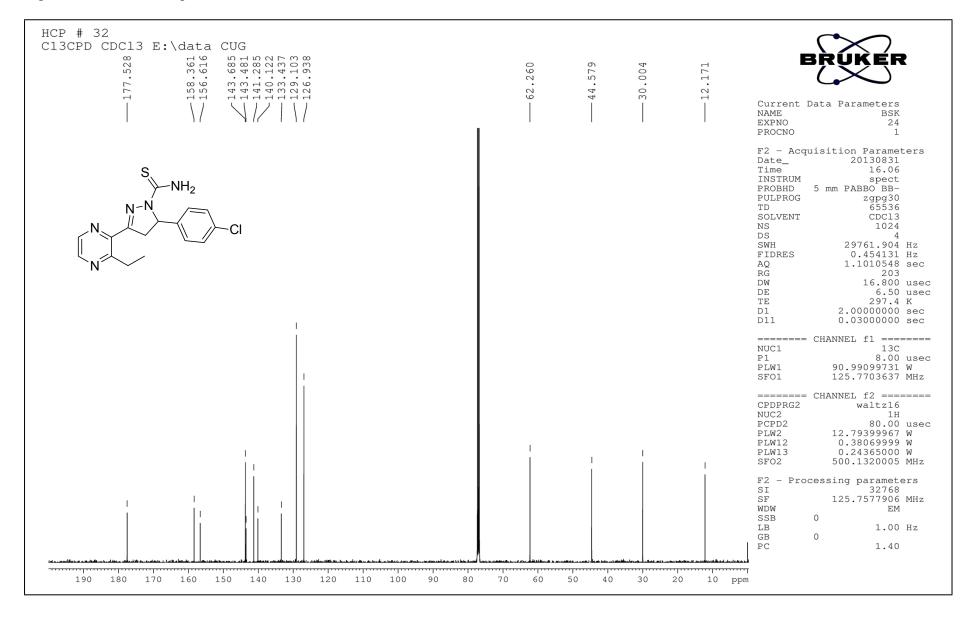


Figure S23: 1H NMR spectra of 41

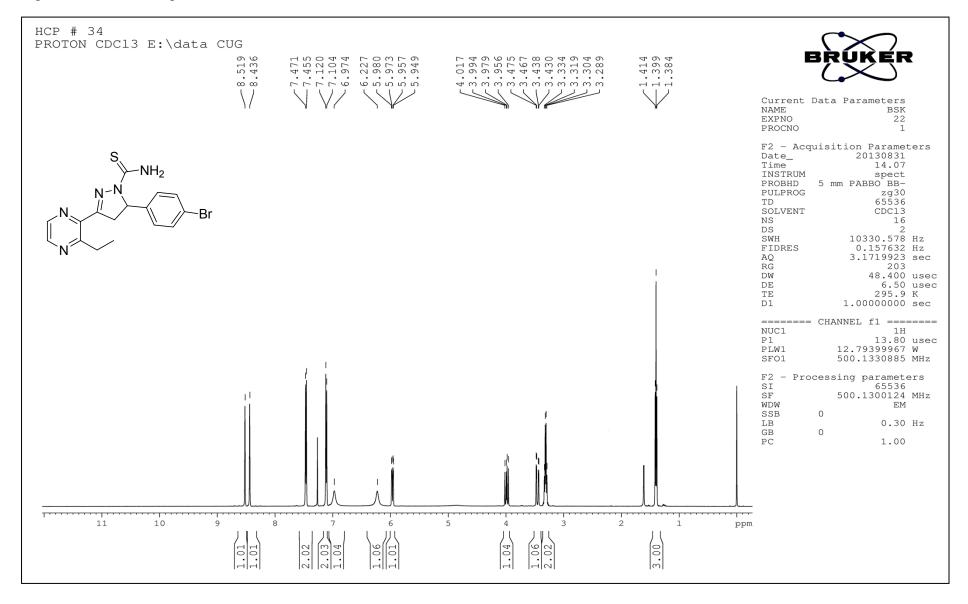


Figure S24: 13C NMR spectra of 4l

