

## *Supplementary Information*

# Synthesis, characterization and antimicrobial activity of pyrazole derivatives

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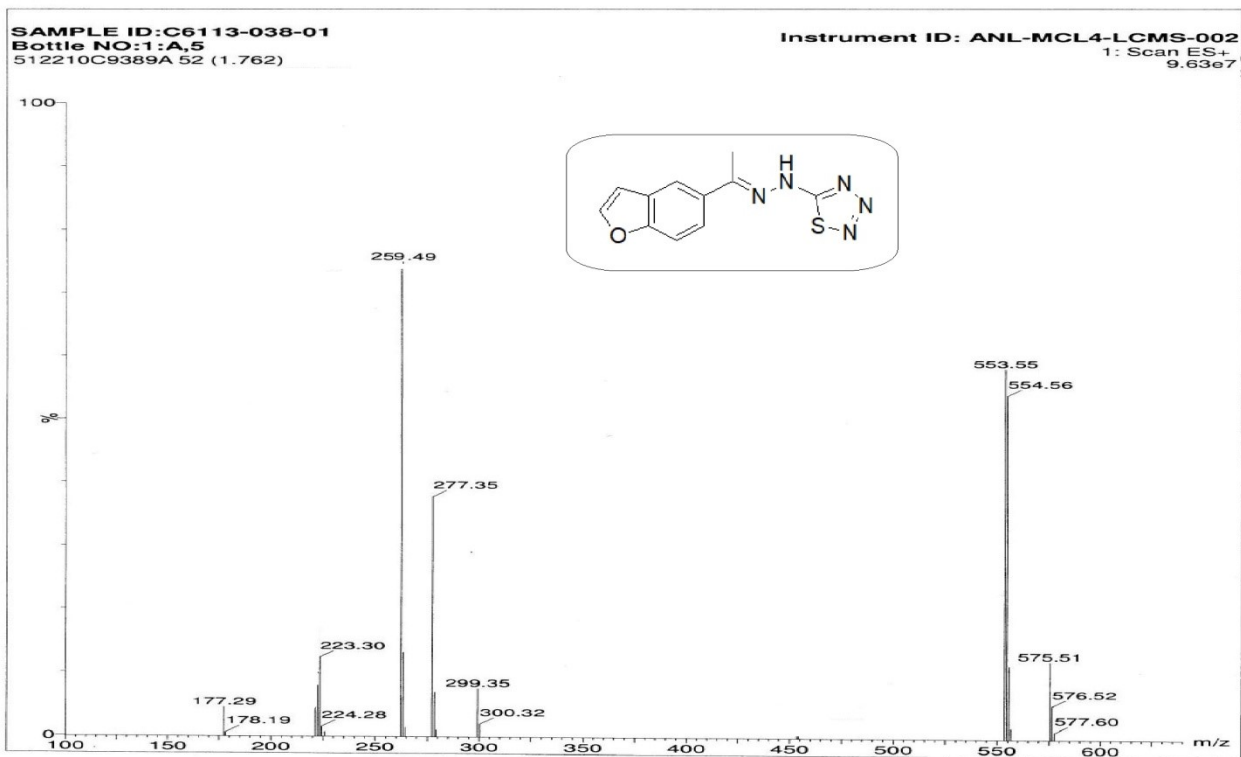


Figure 1: Mass spectra of compound 1

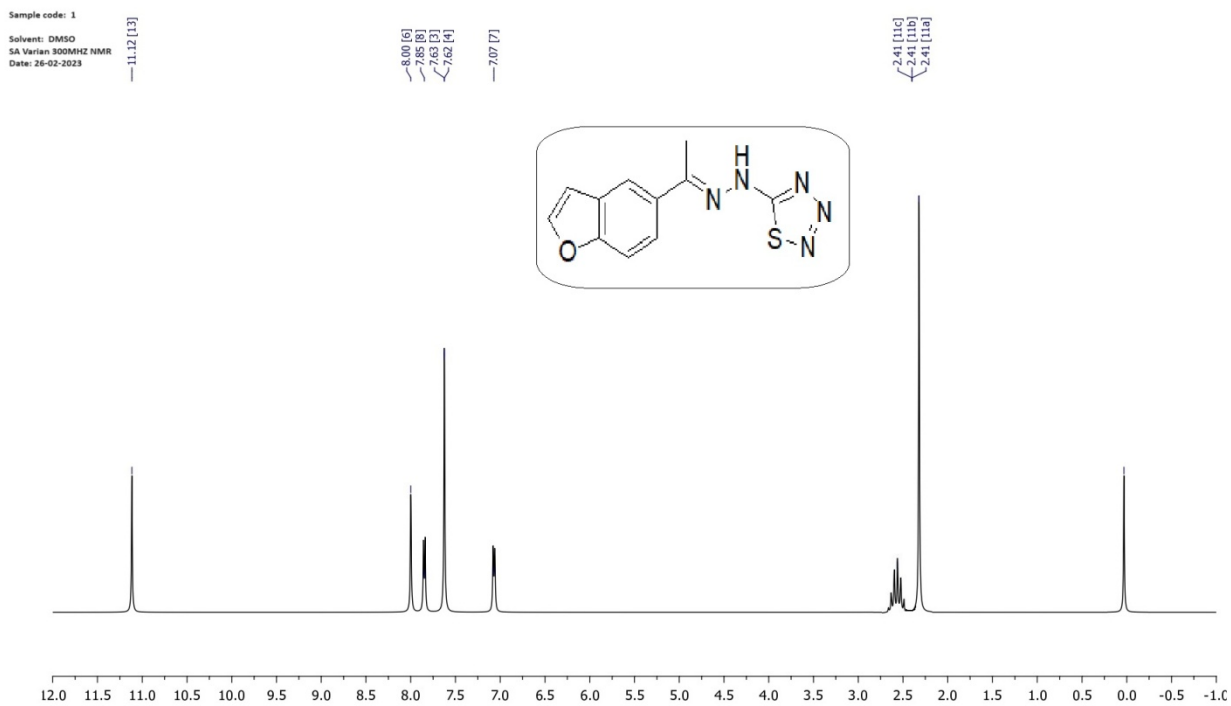


Figure 2: <sup>1</sup>H NMR spectra of compound 1

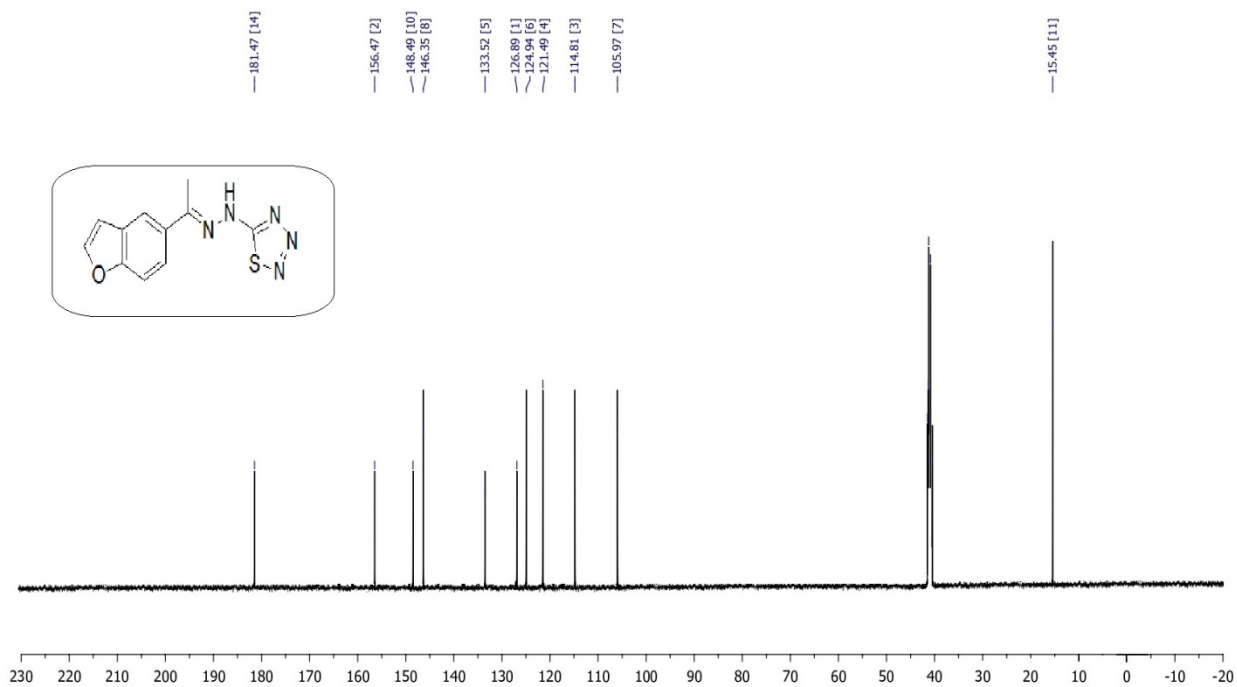


Figure 3:  $^{13}\text{C}$  NMR spectra of compound 1

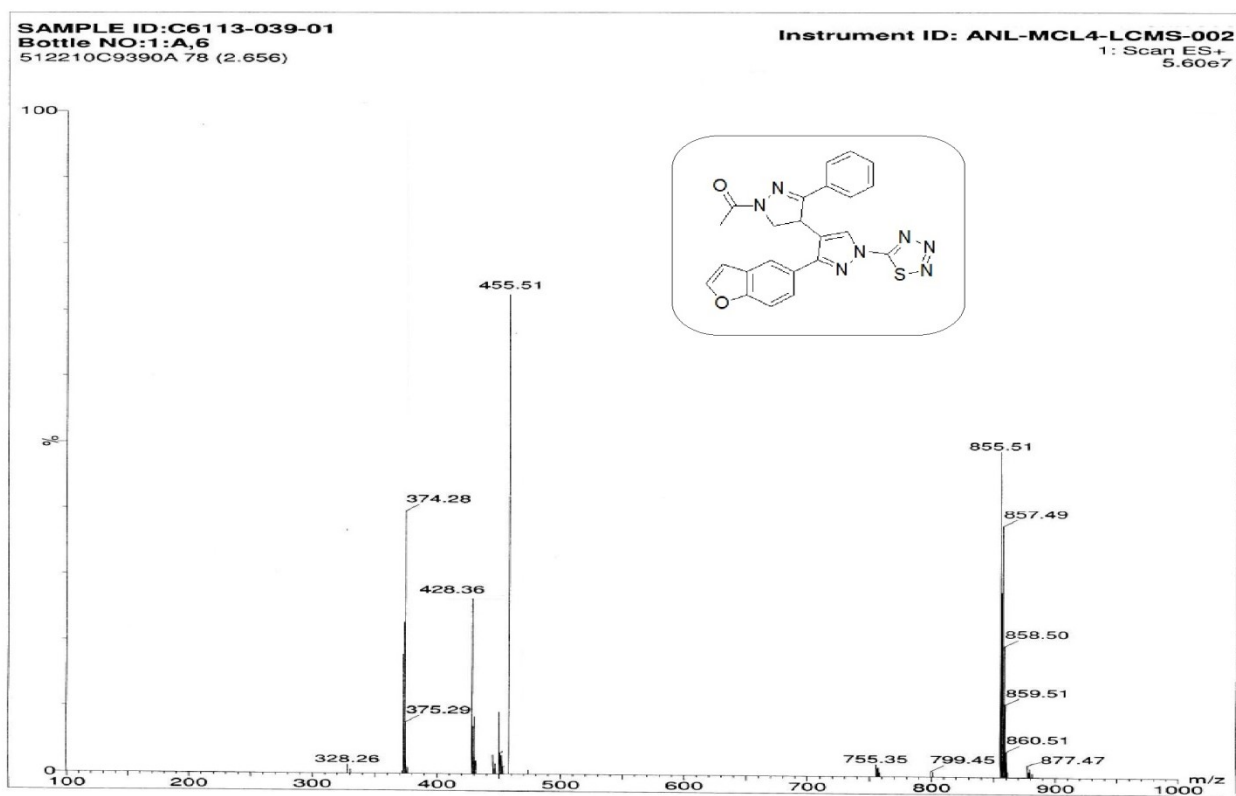


Figure 4: Mass spectra of compound 5

Solvent Code: 3  
Solvent: DMSO  
SA-Varian 300MHz NMR  
Date: 28-02-2023

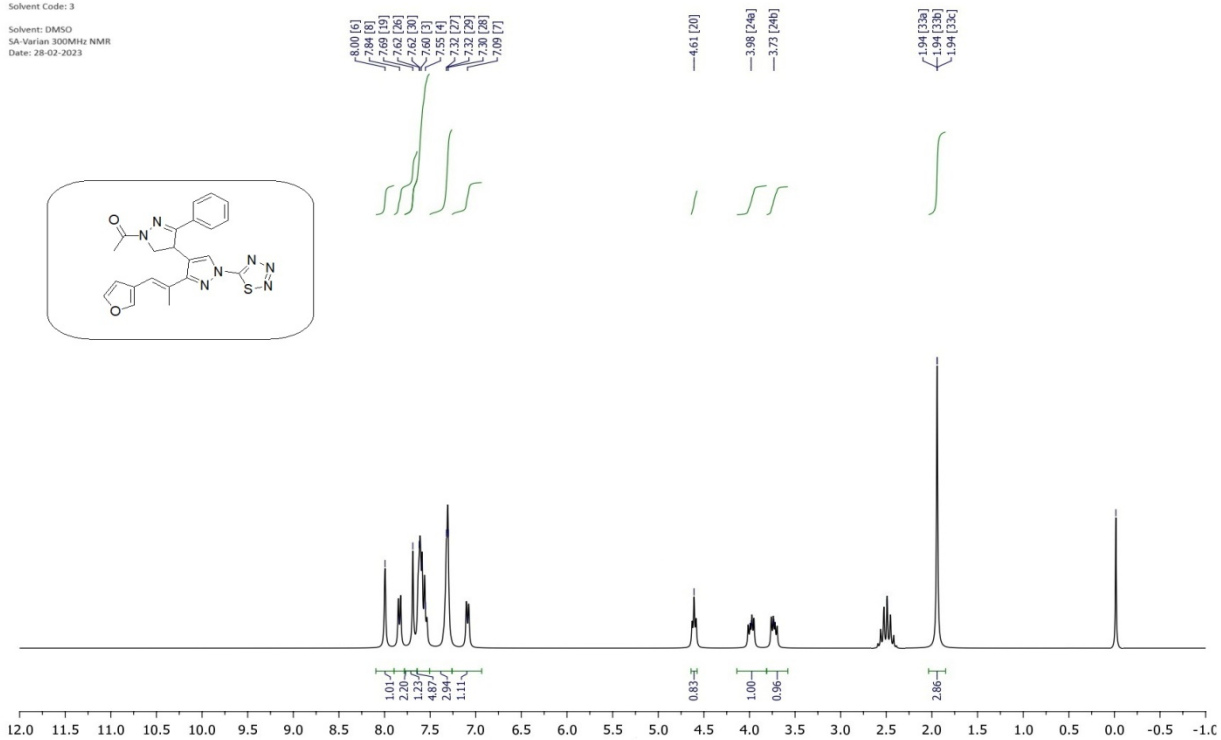


Figure 5 <sup>1</sup>H NMR spectra of compound 5

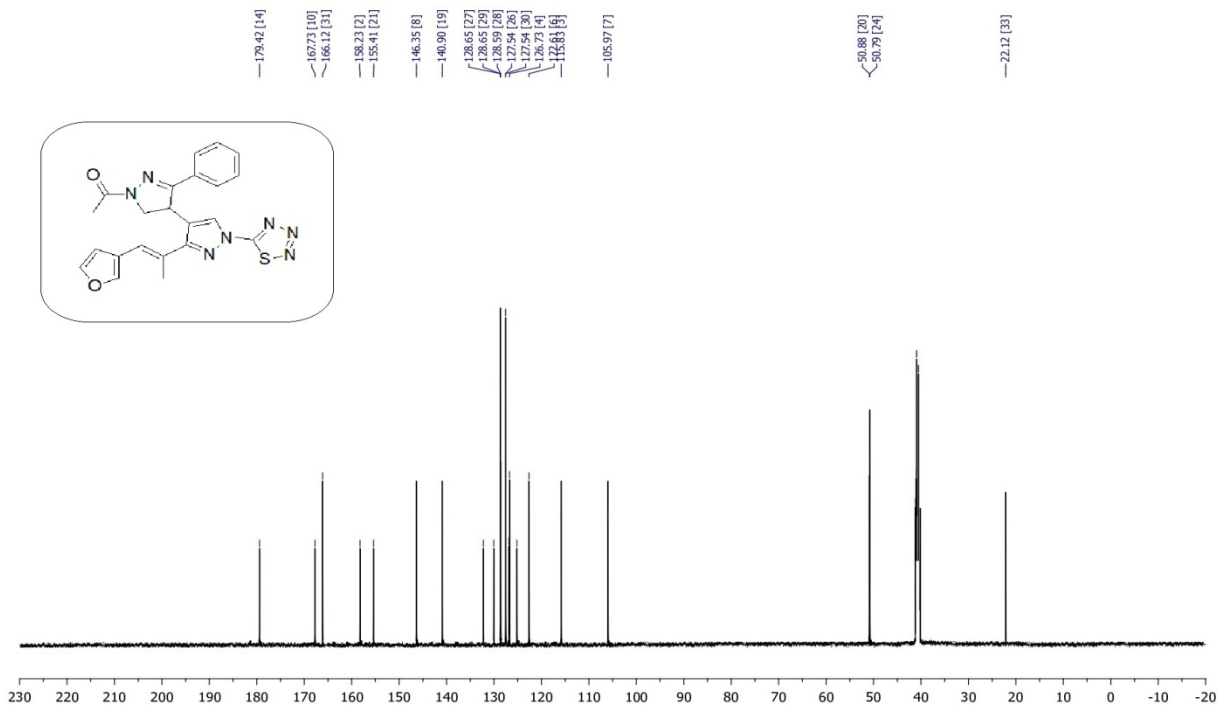


Figure 6 <sup>13</sup>C NMR spectra of compound 5

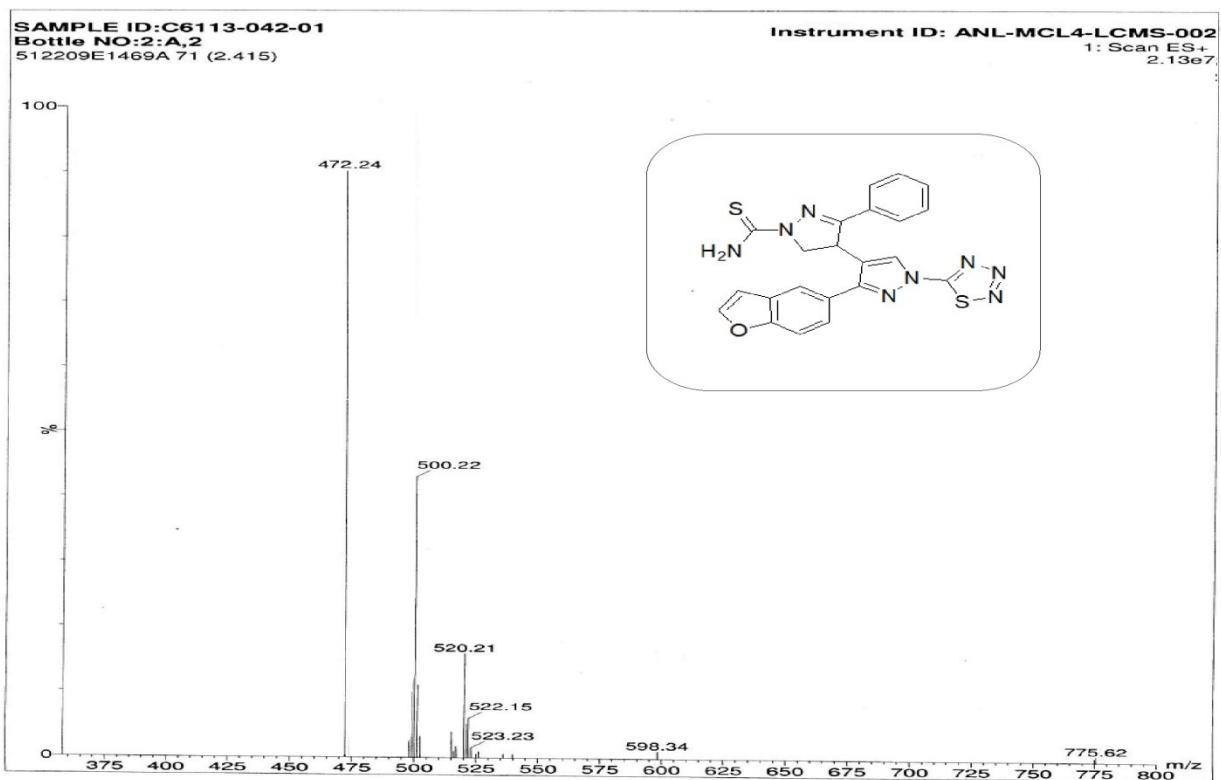


Figure 7 Mass spectra of compound 9

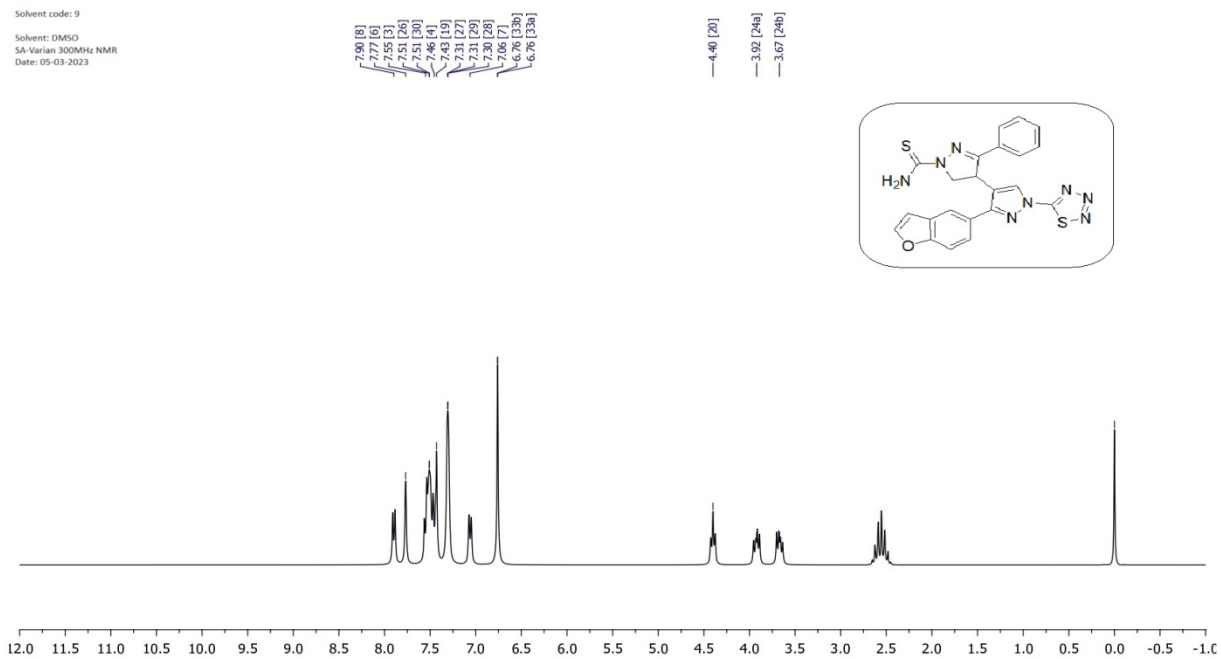
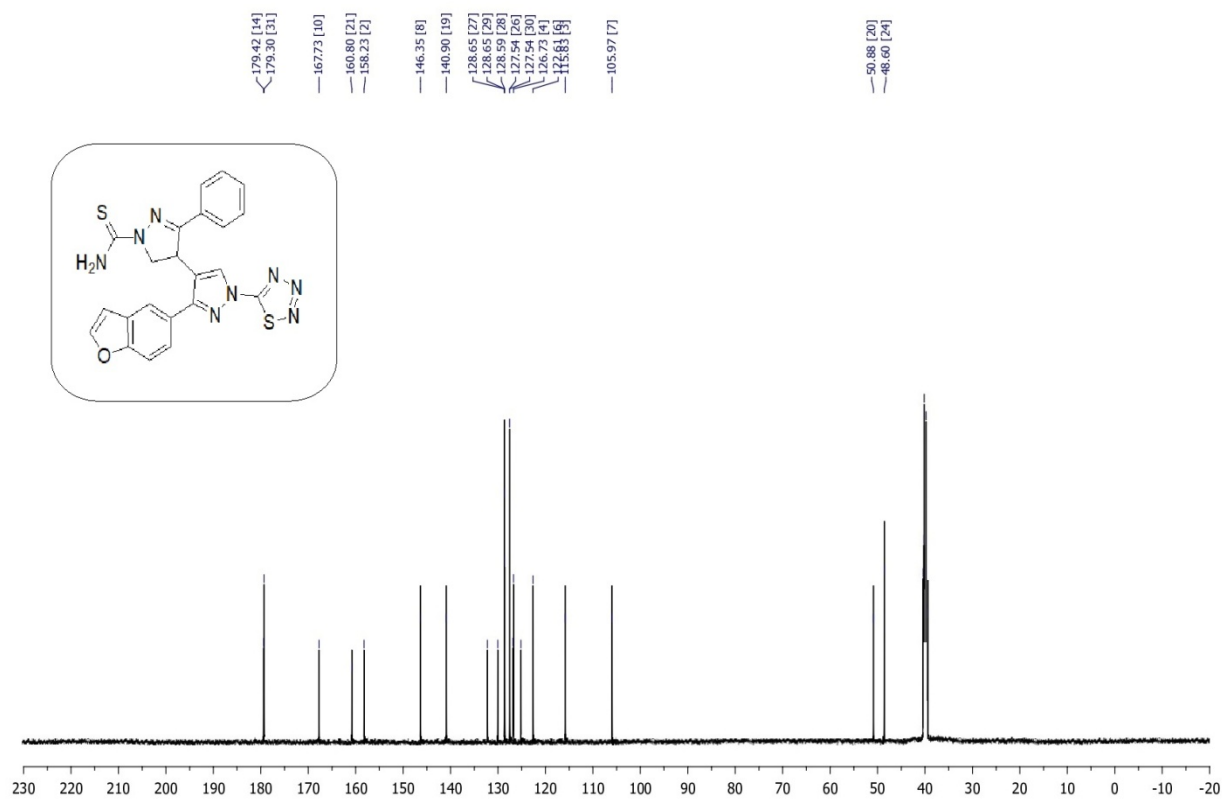


Figure 8 <sup>1</sup>H NMR spectra of compound 9



**Figure 9**  $^{13}\text{C}$  NMR spectra of compound 9