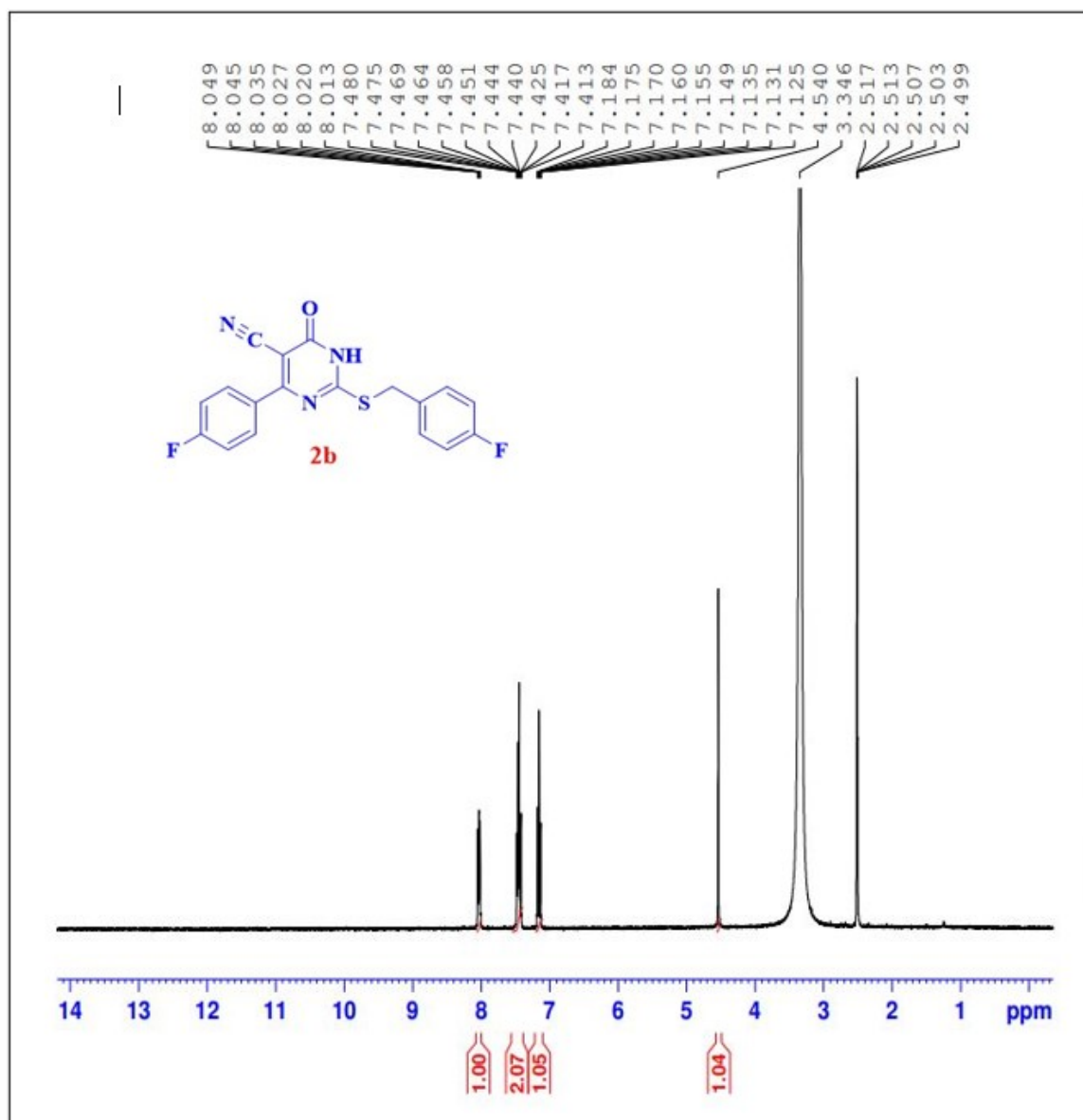
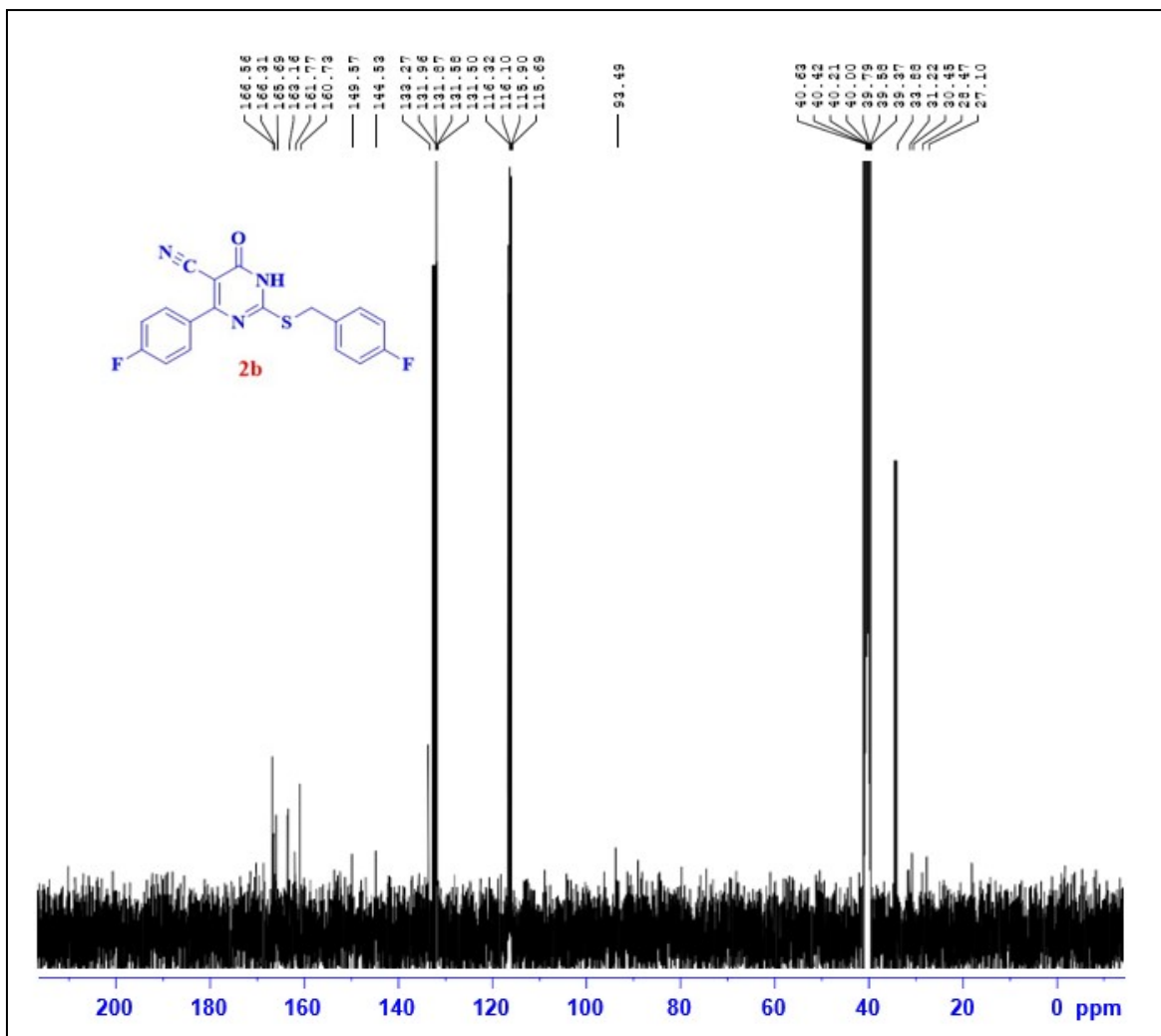


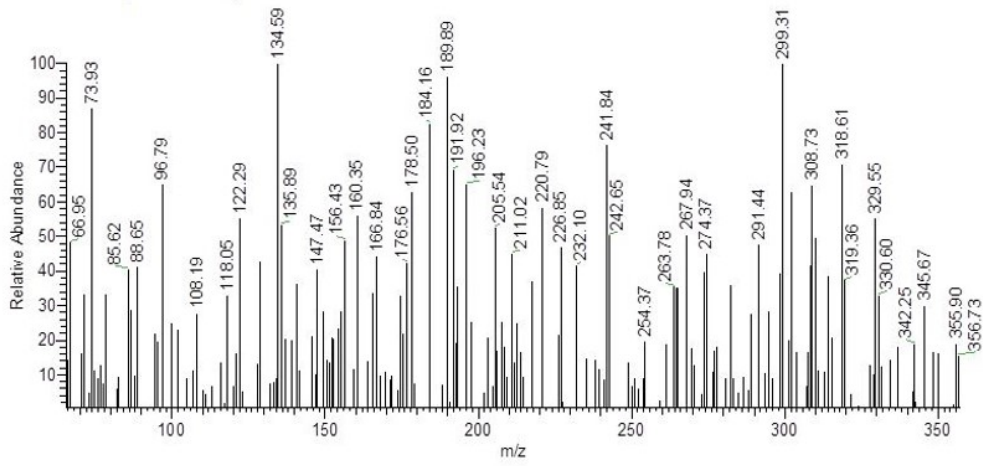
## Design, Synthesis, and Biological Evaluation of New Pyrimidine-5-carbonitrile Derivatives as Novel Anti-cancer, Dual EGFR<sup>WT</sup>/COX-2 Inhibitors with Docking Studies.

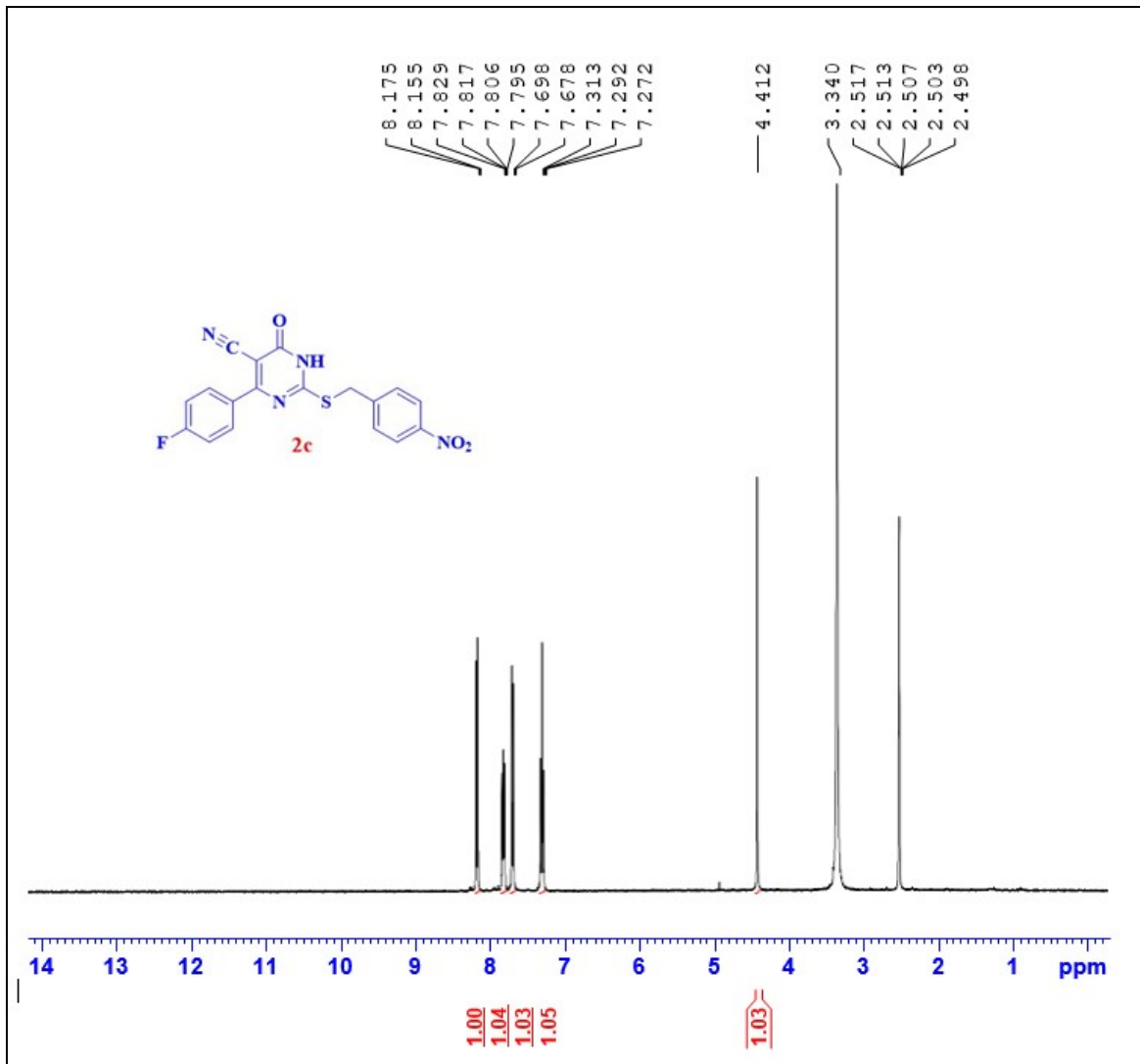
Nada Reda<sup>a,\*</sup>, Ahmed Elshewy<sup>b,c</sup>, Hesham I. EL-Askarye, Khaled O. Mohamed<sup>b</sup>, Amira A. Helwa<sup>a</sup>

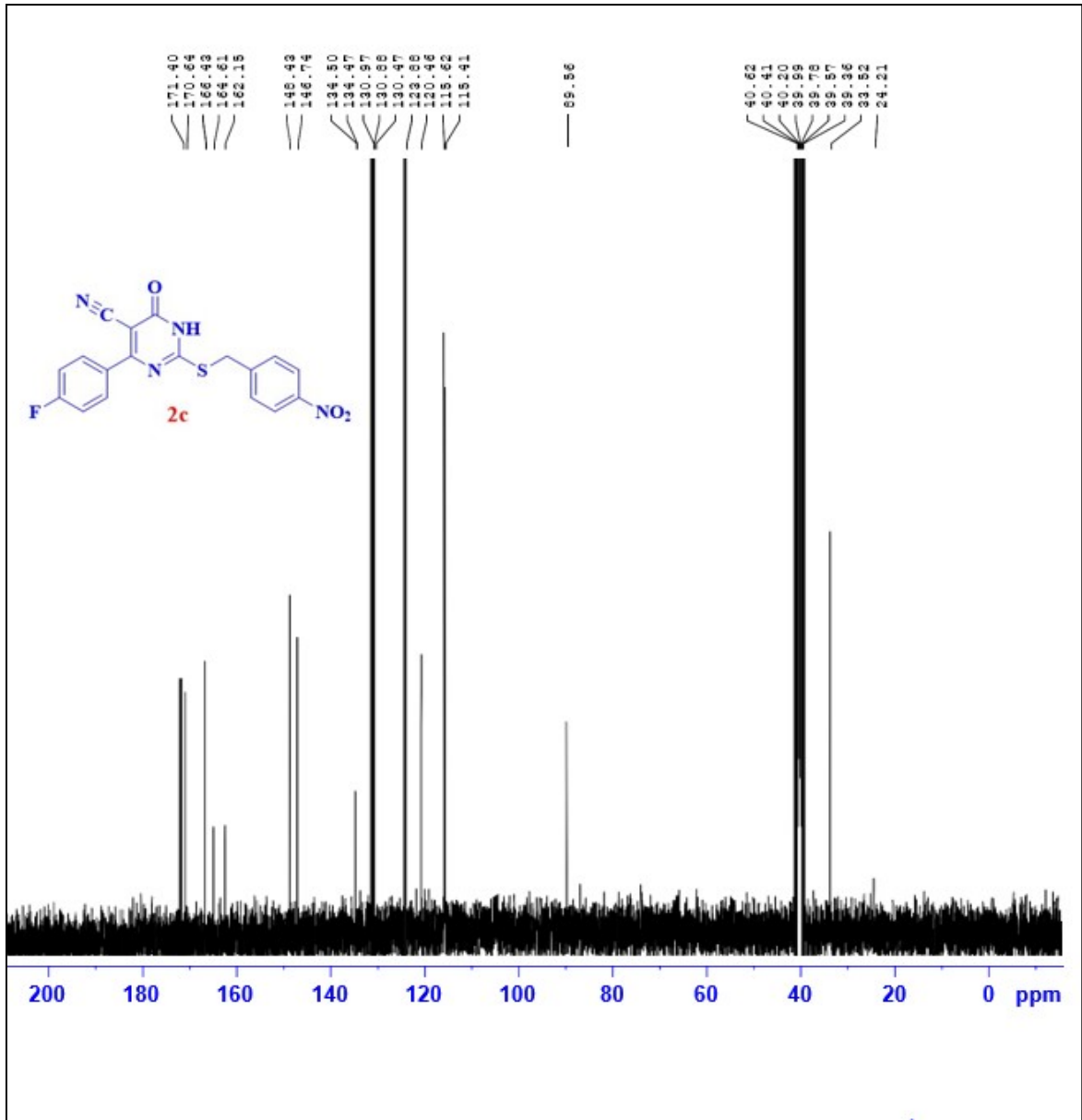
### Spectral Data

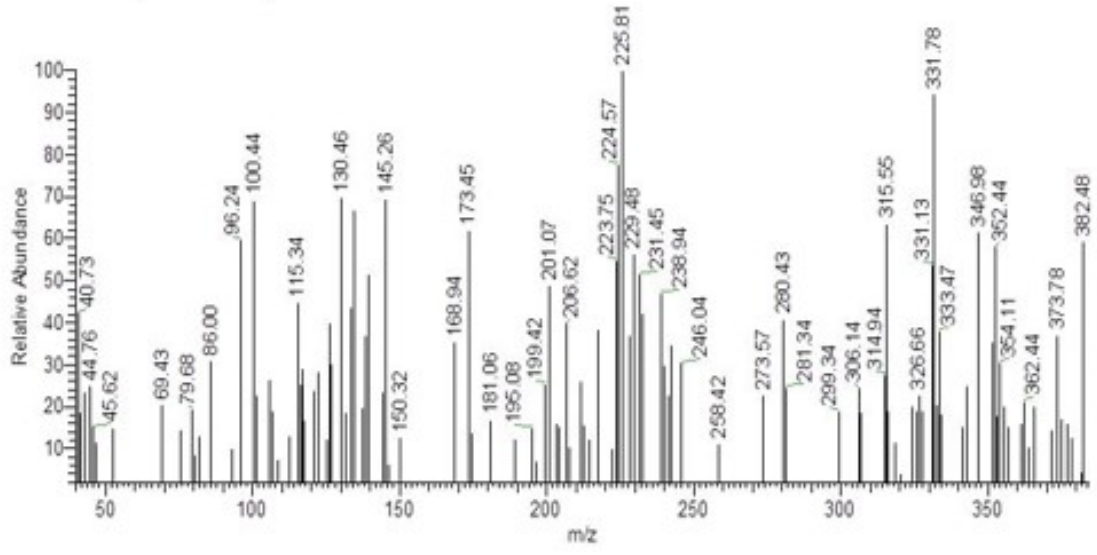
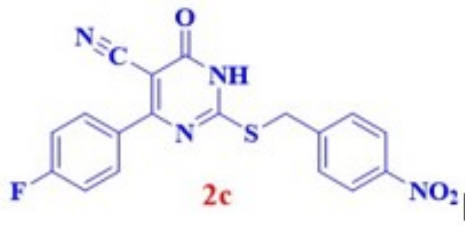


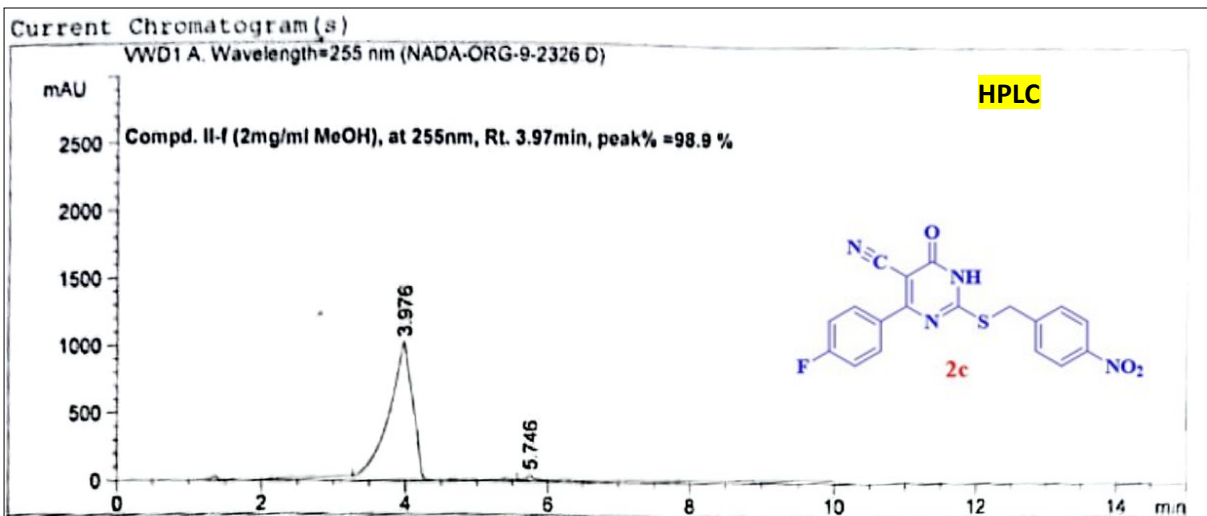
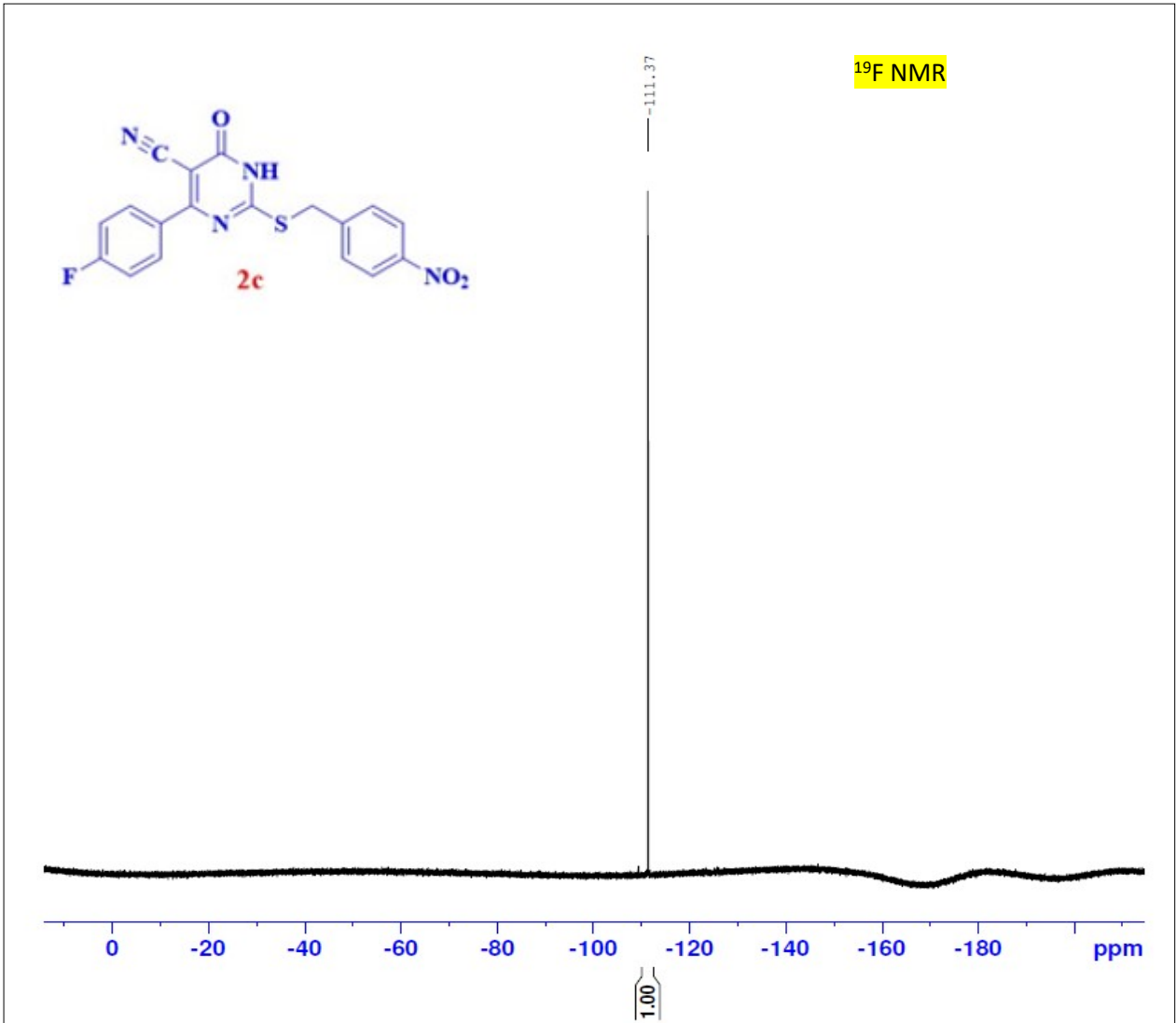


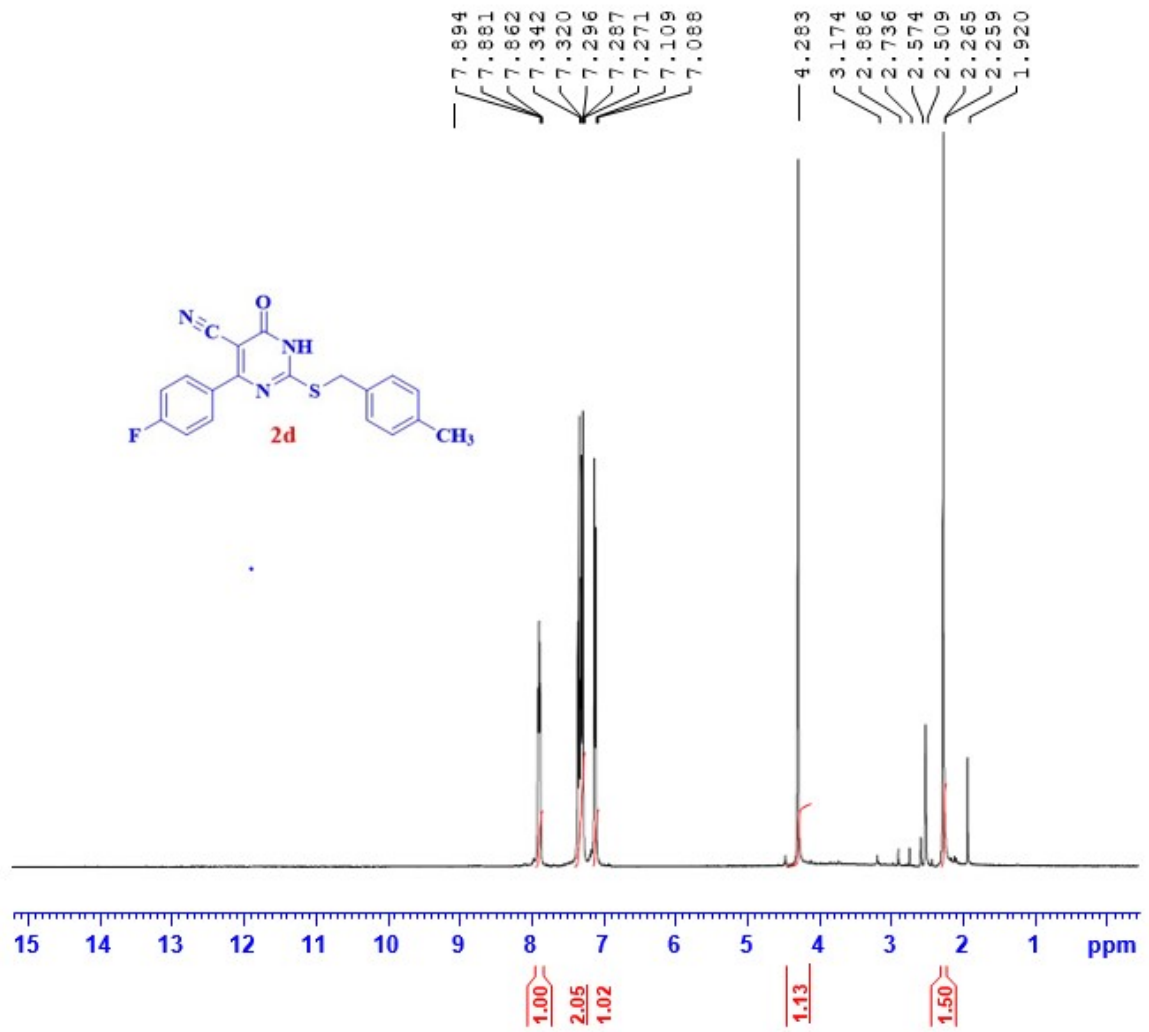




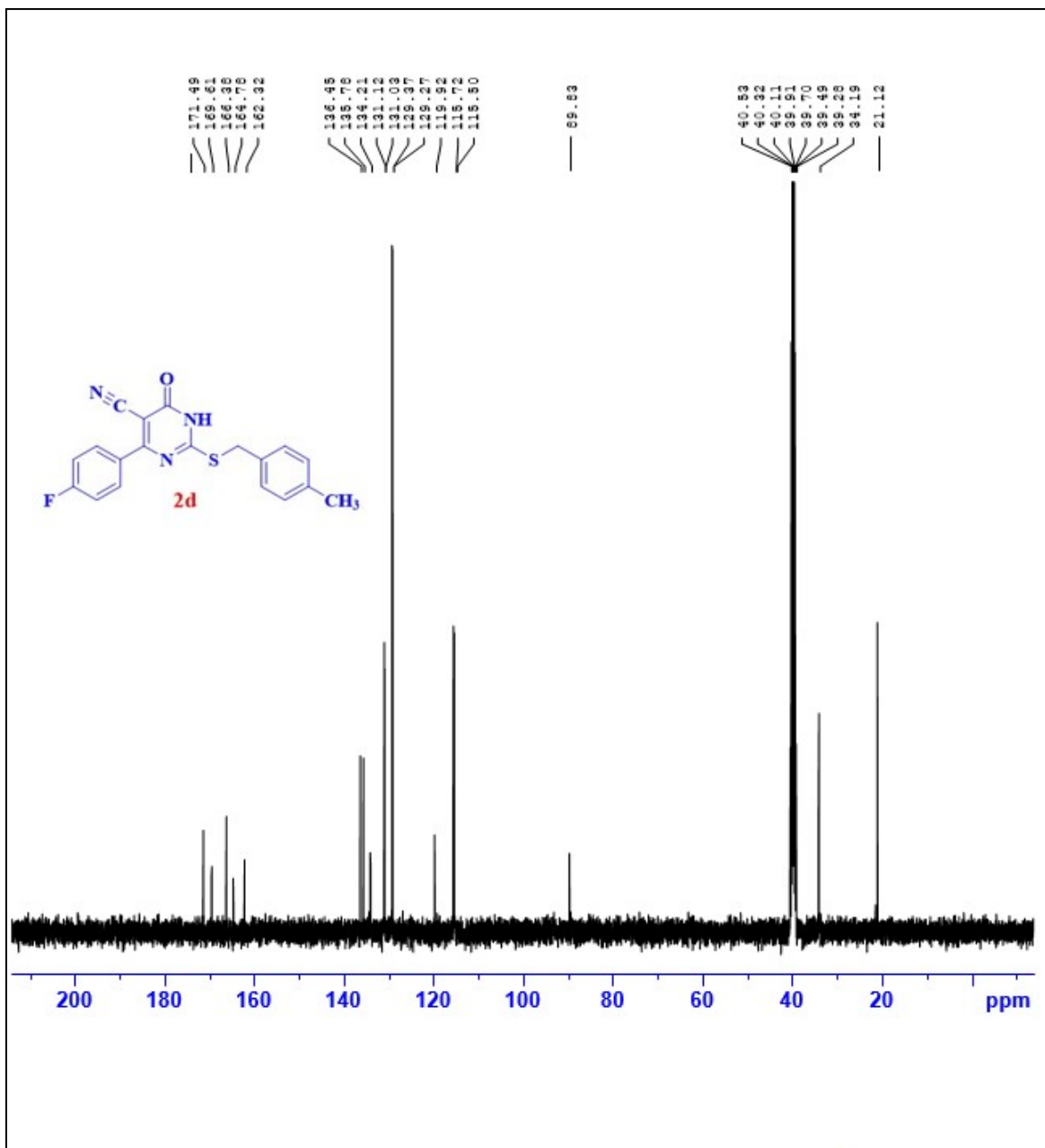


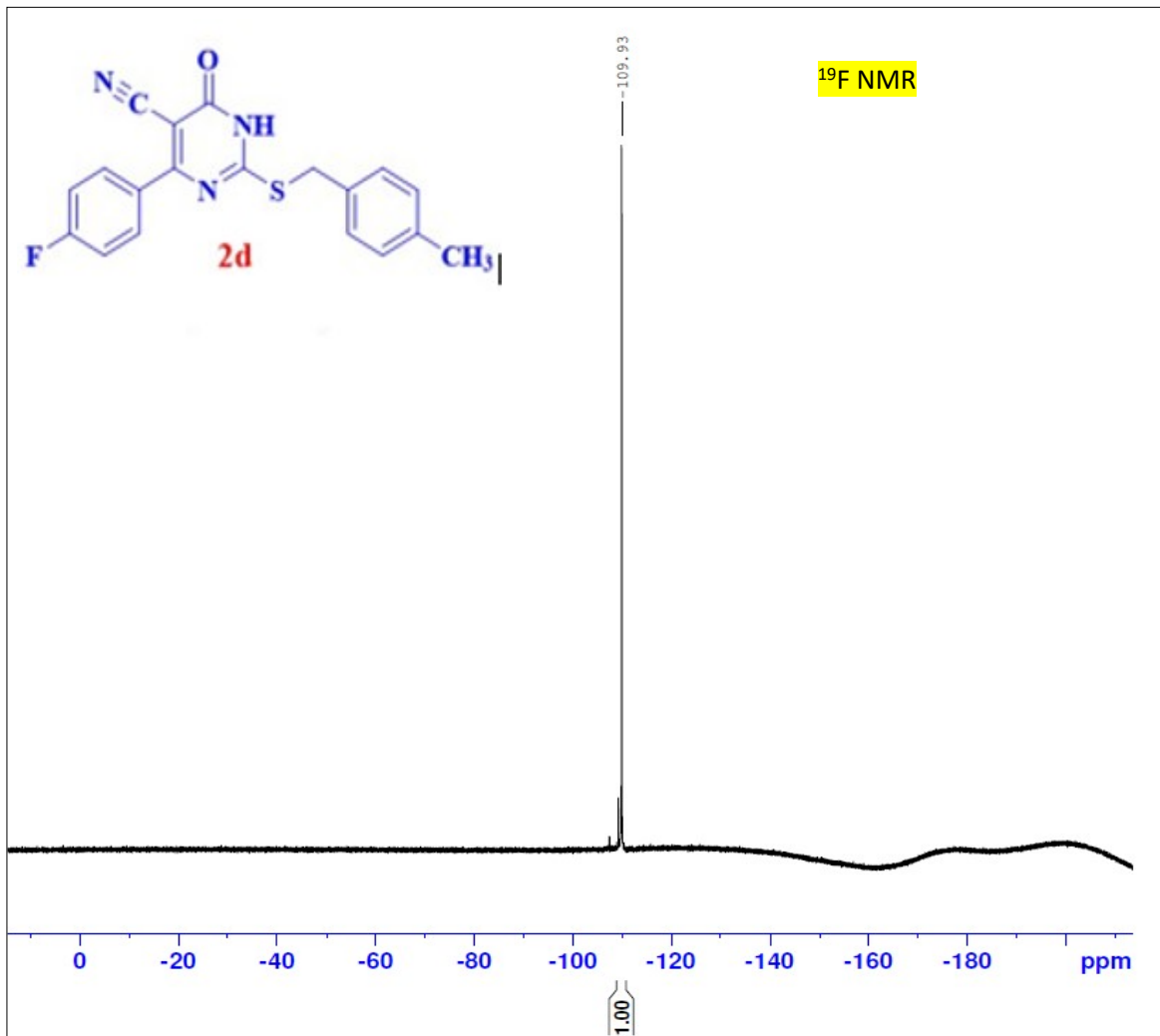
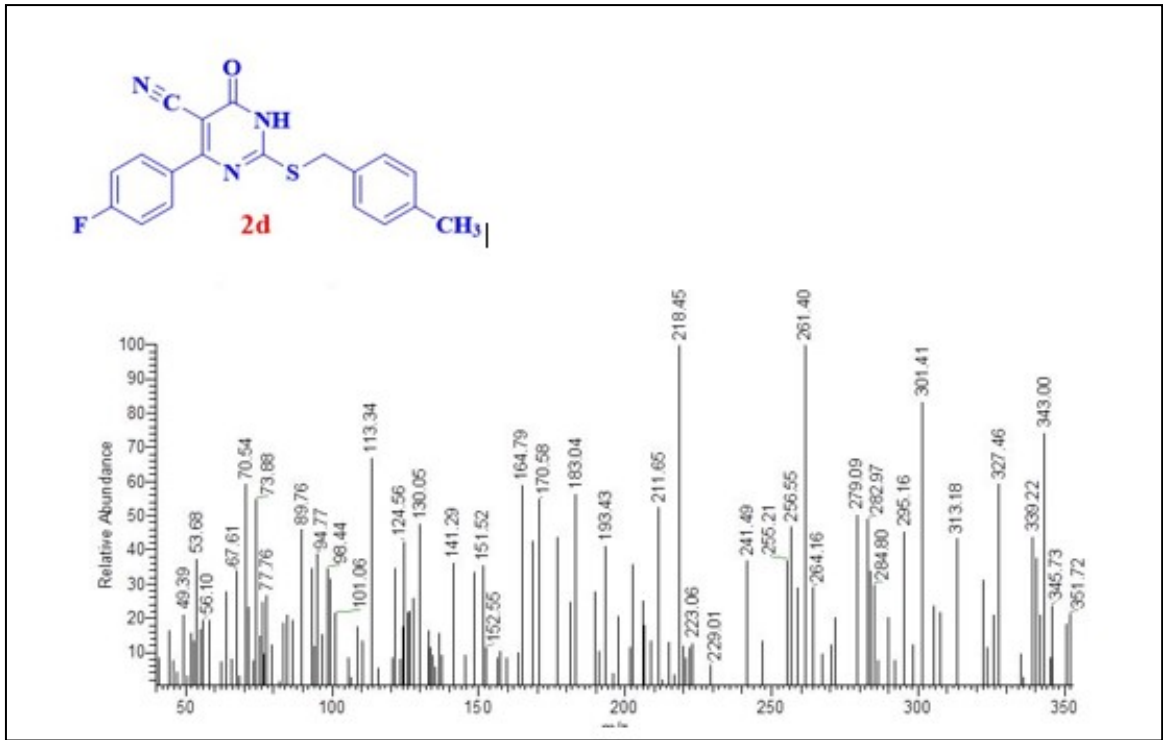


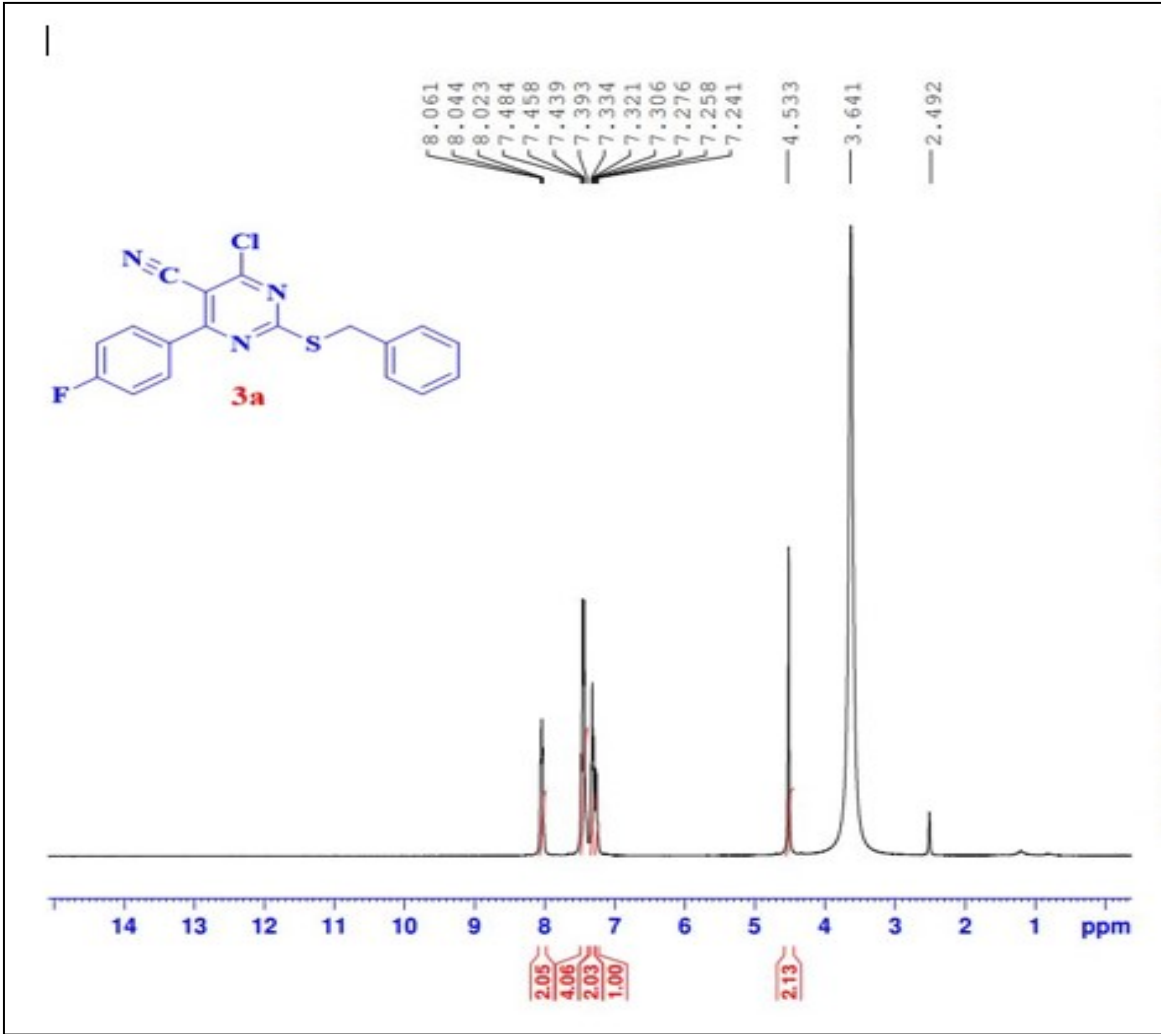


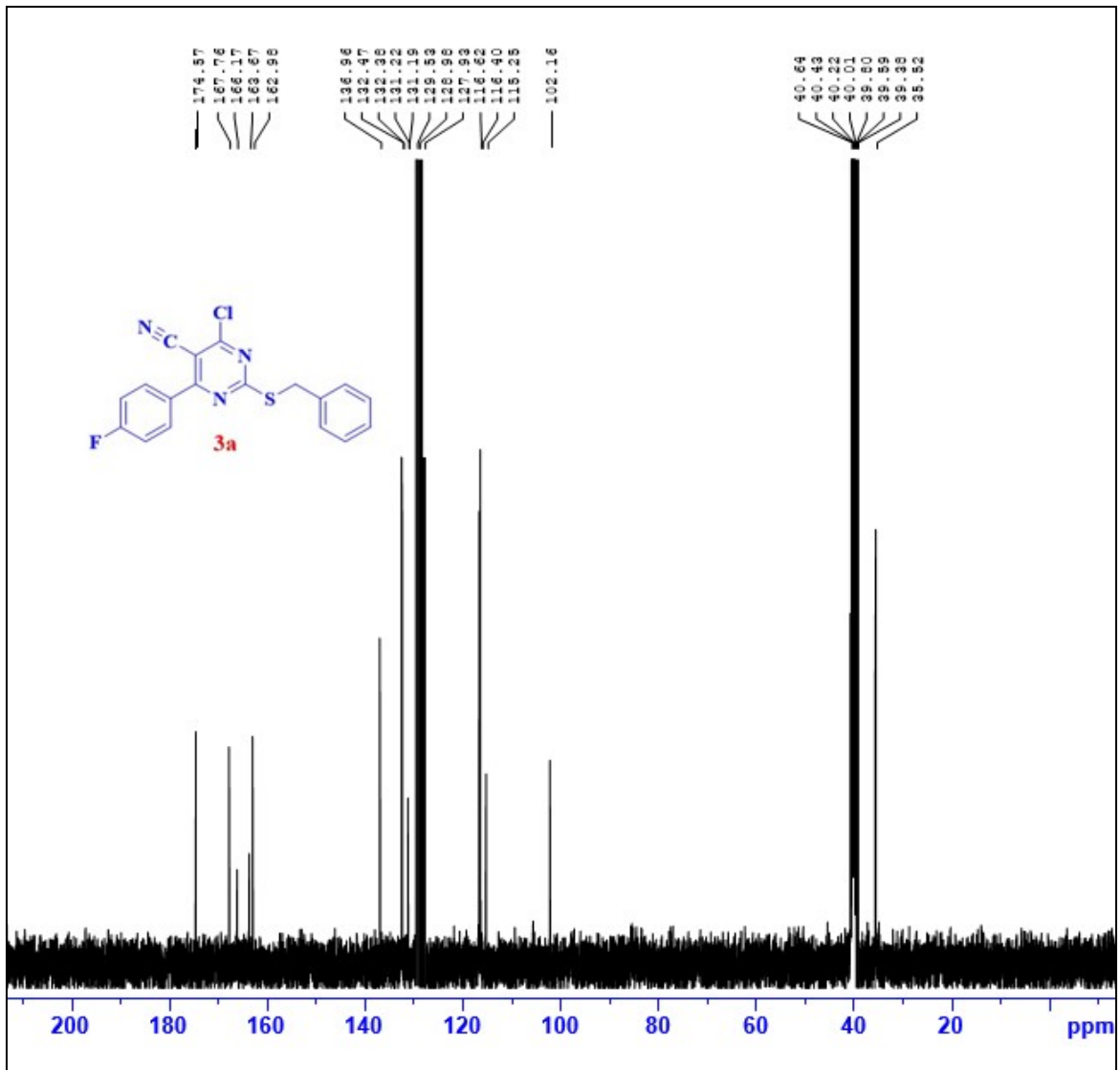


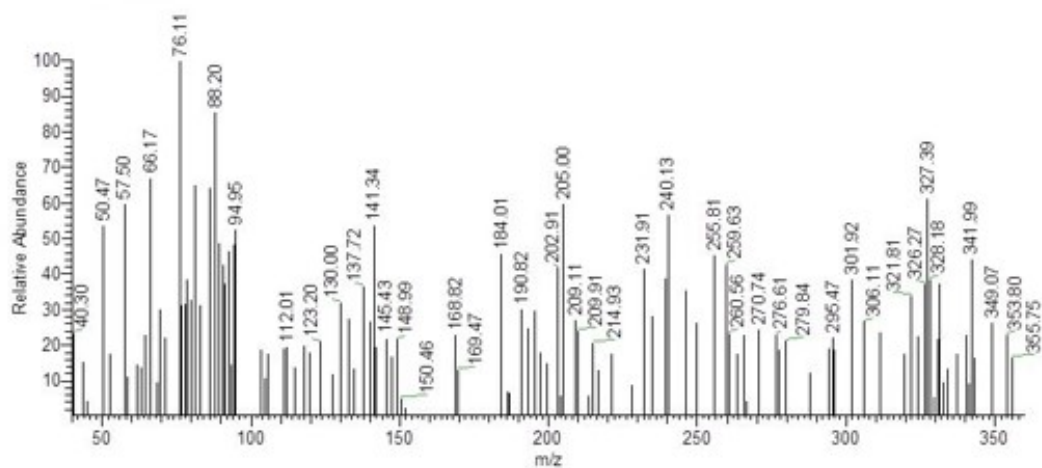
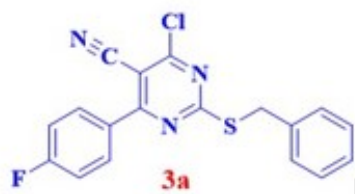


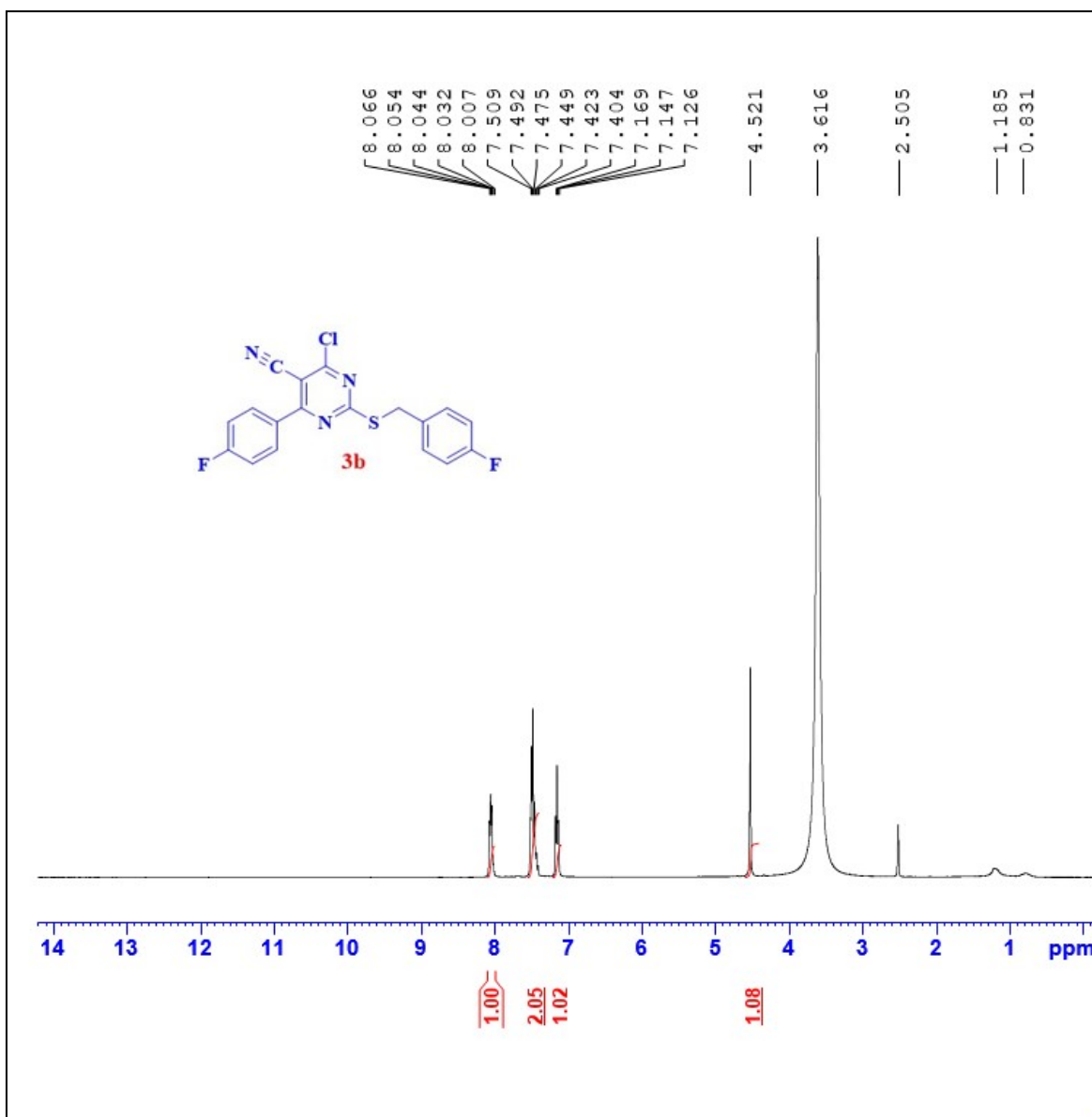


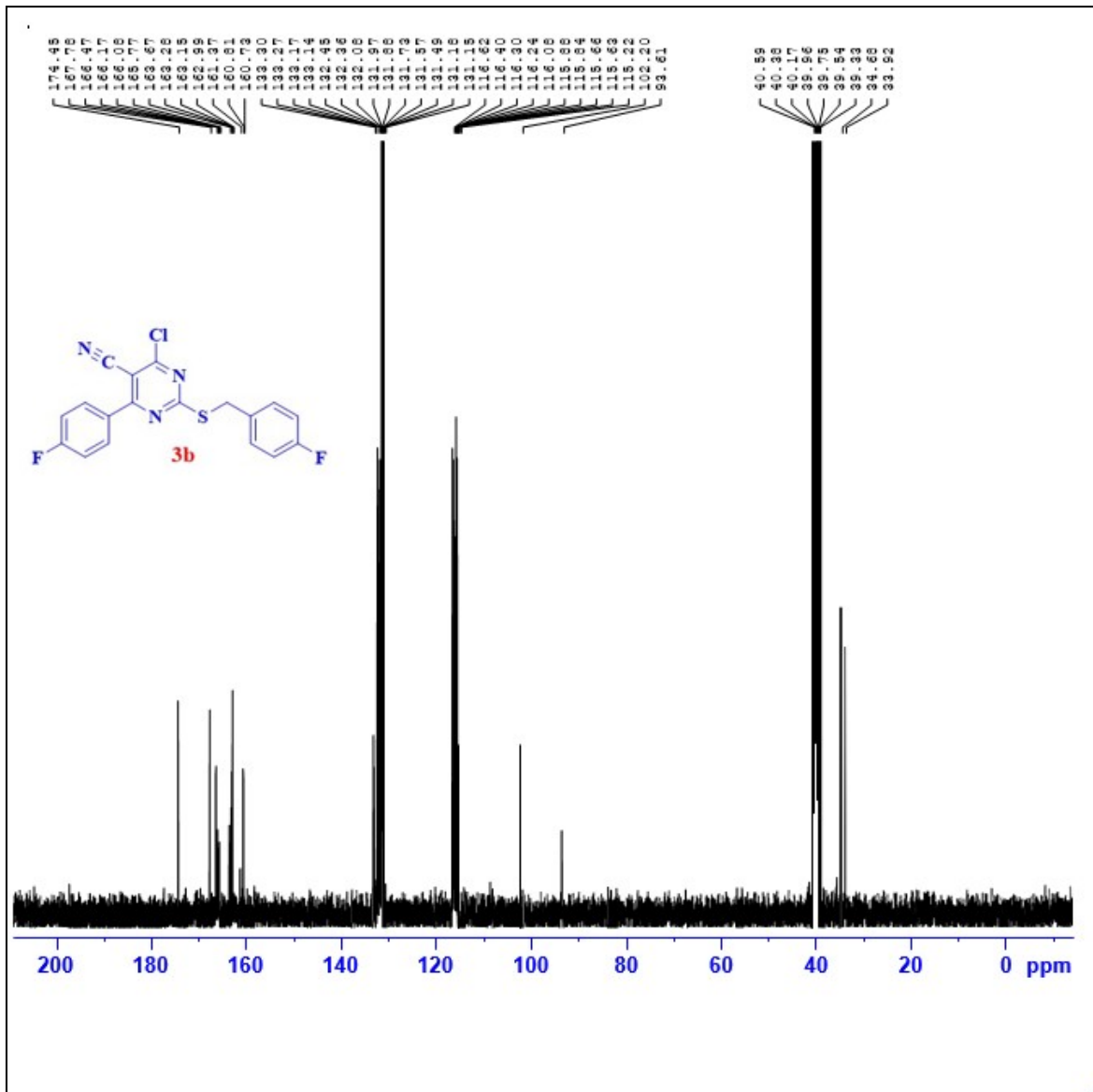


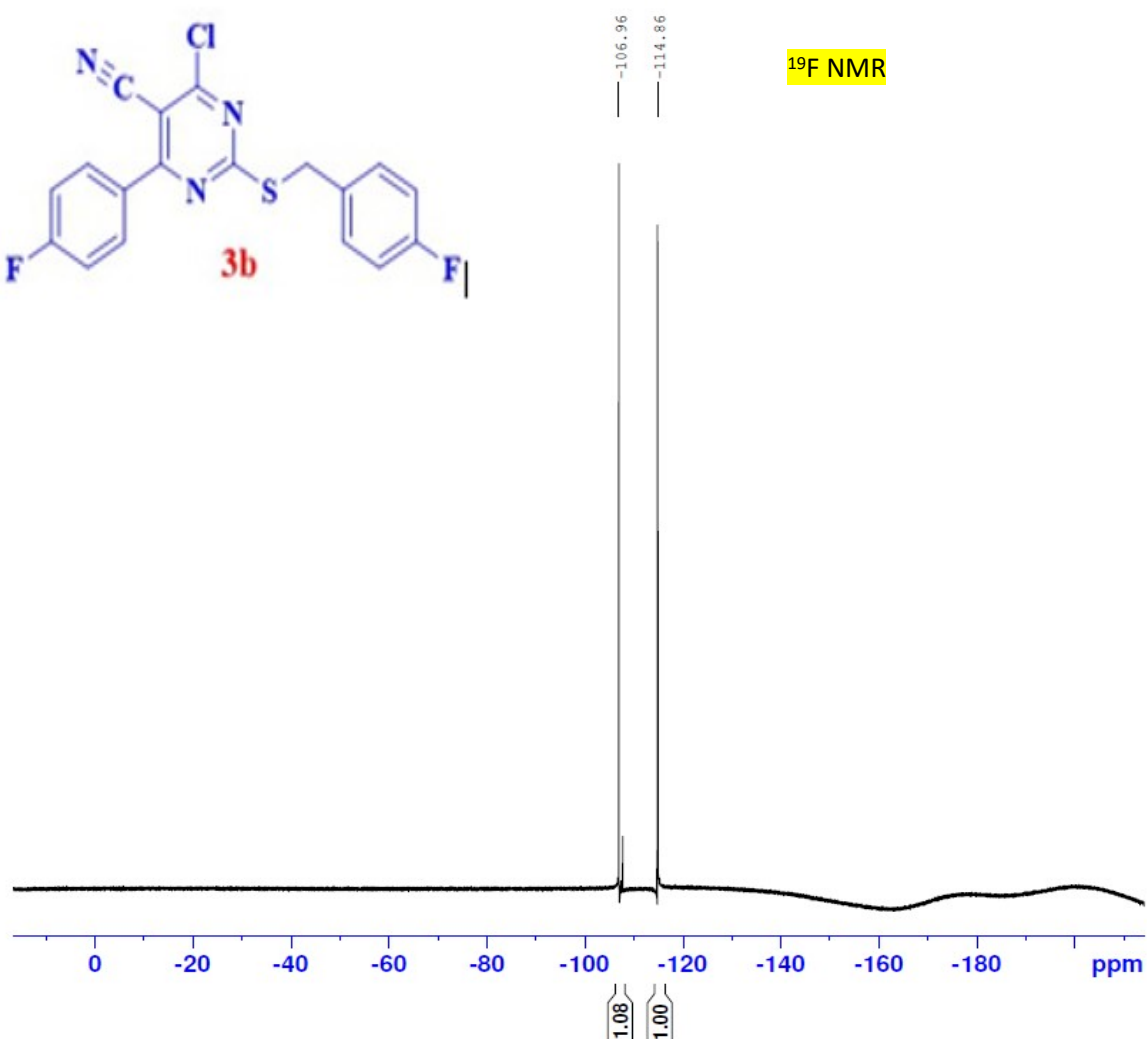
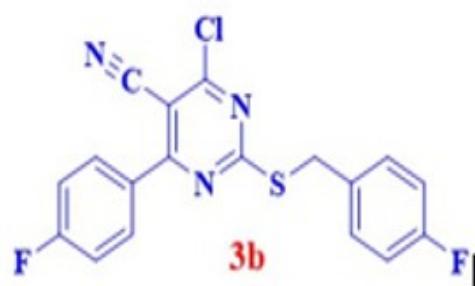
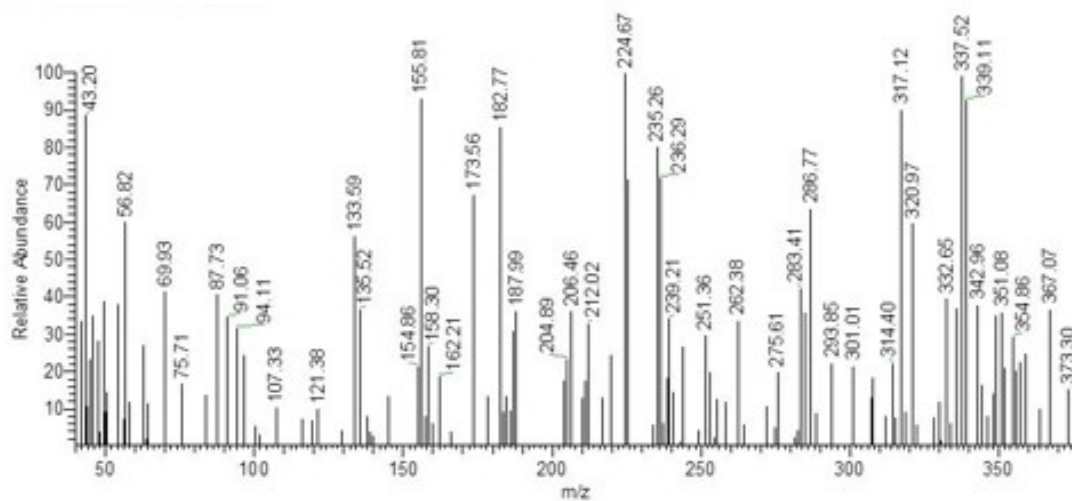




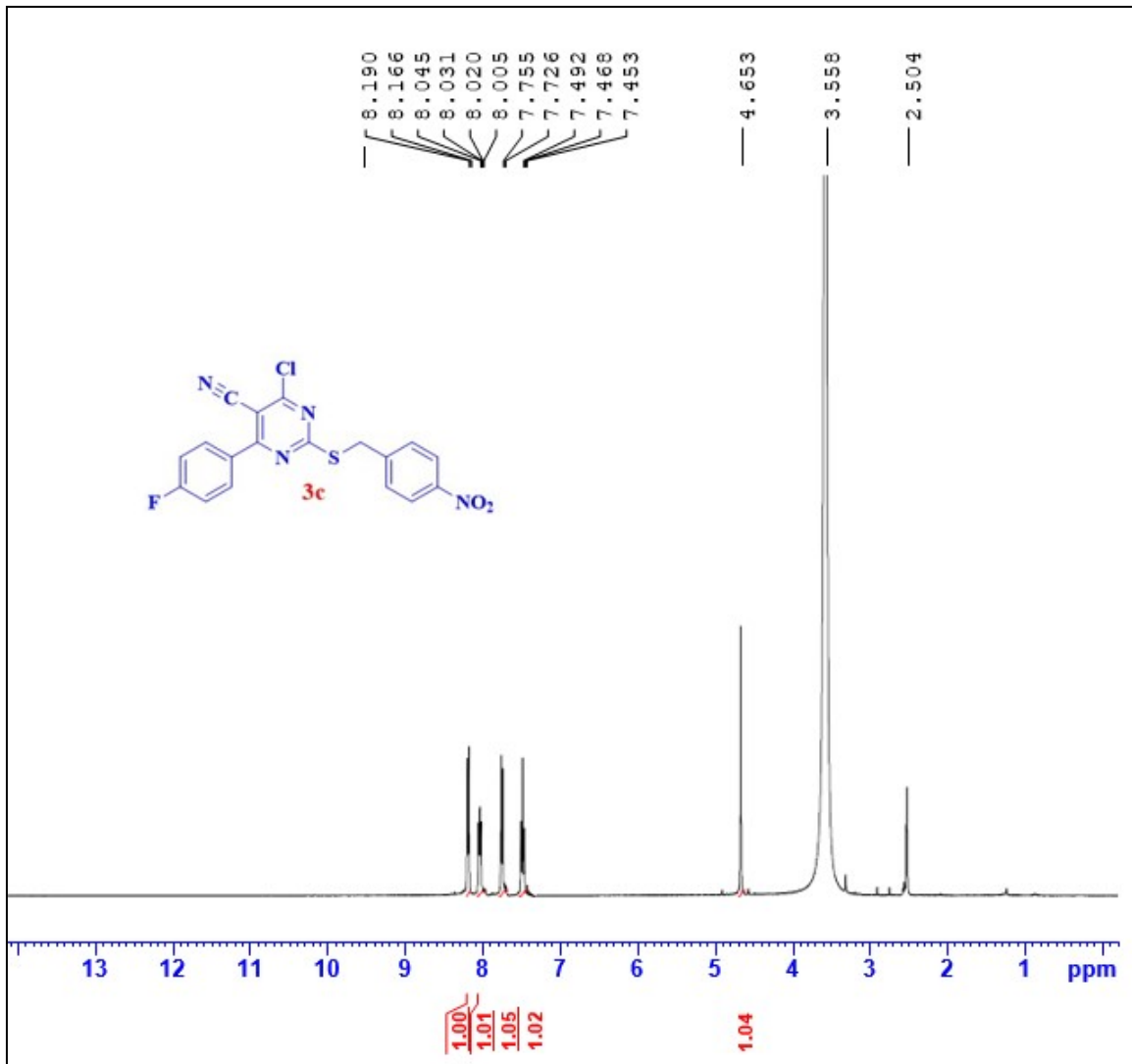


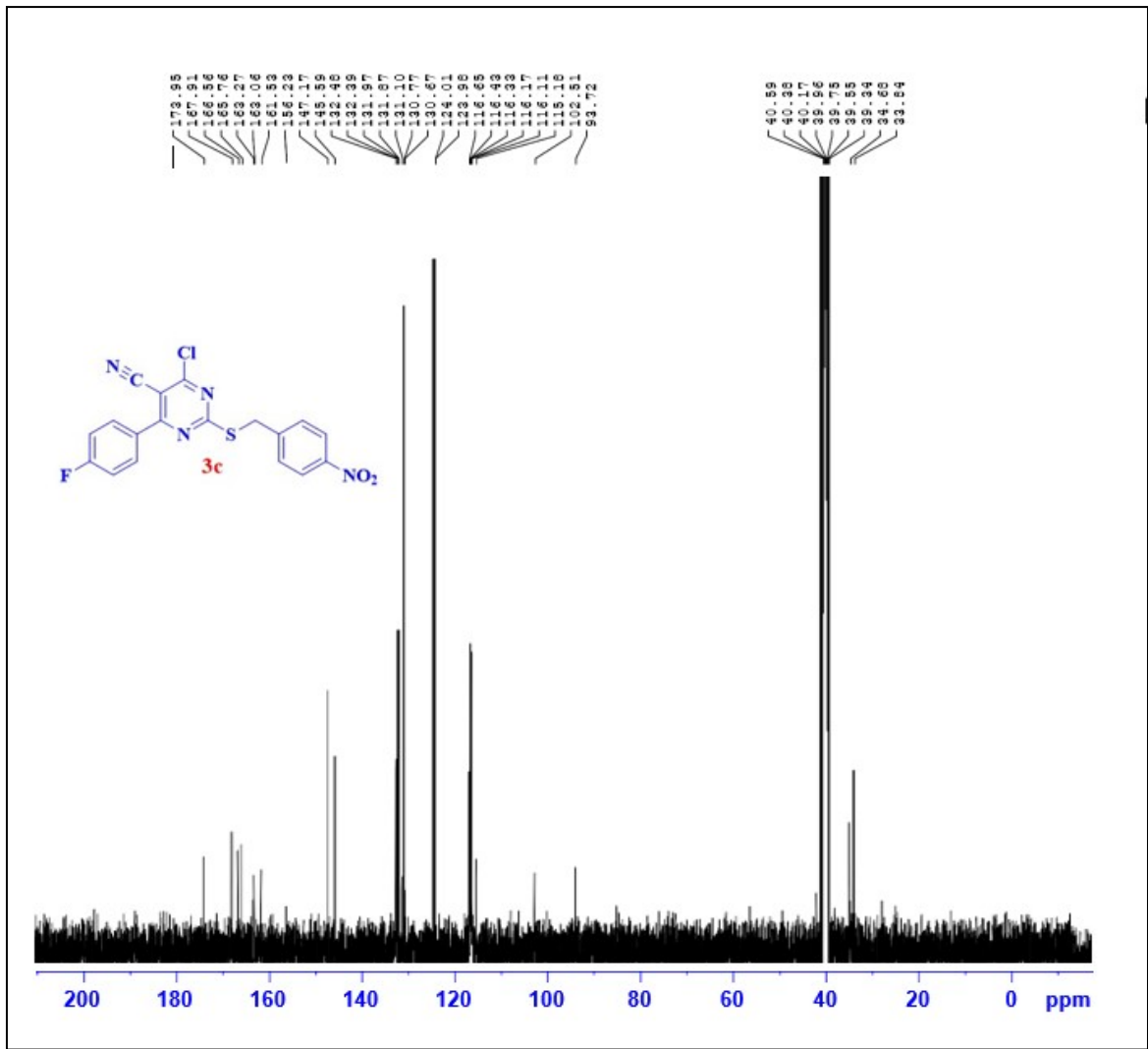


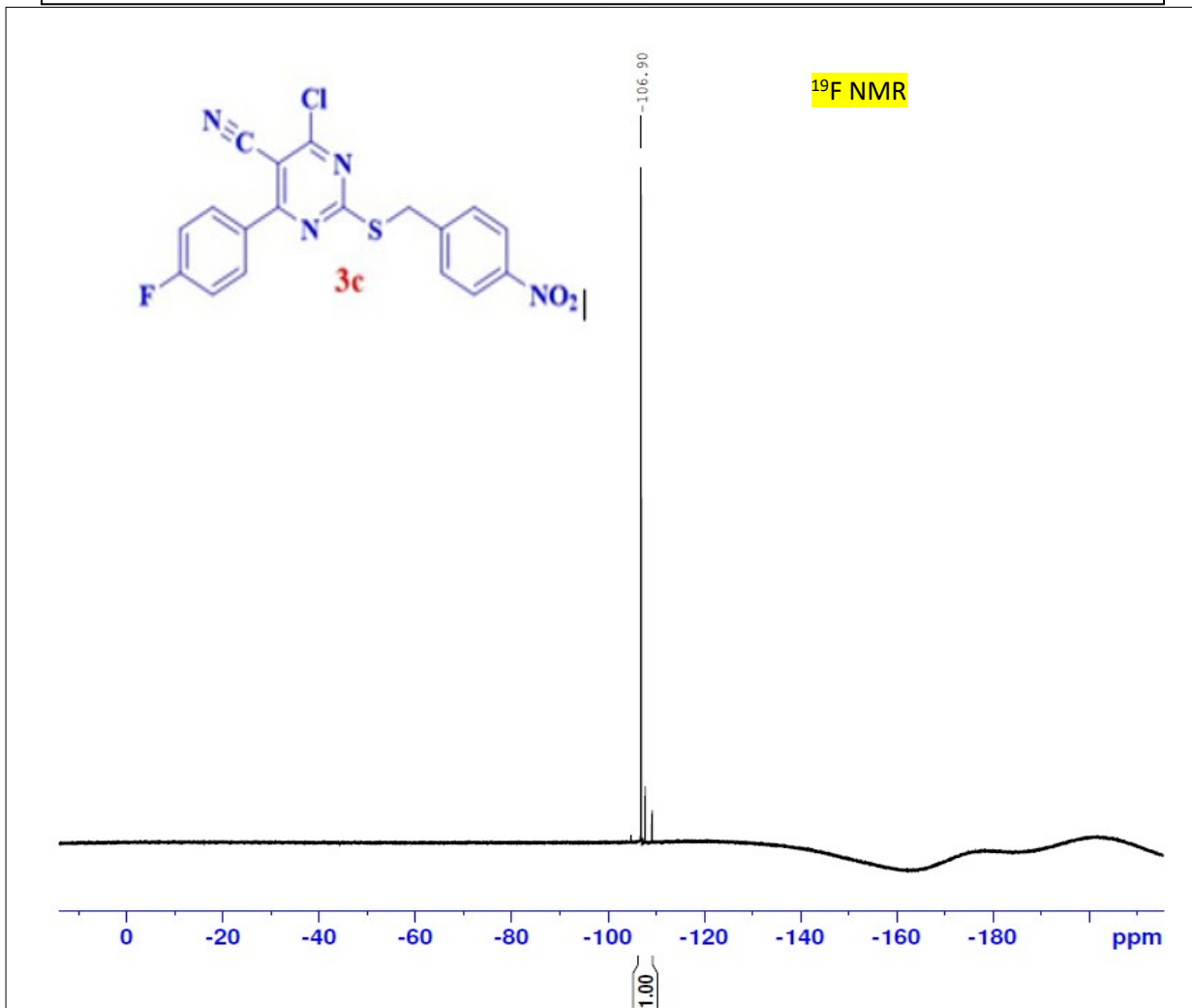
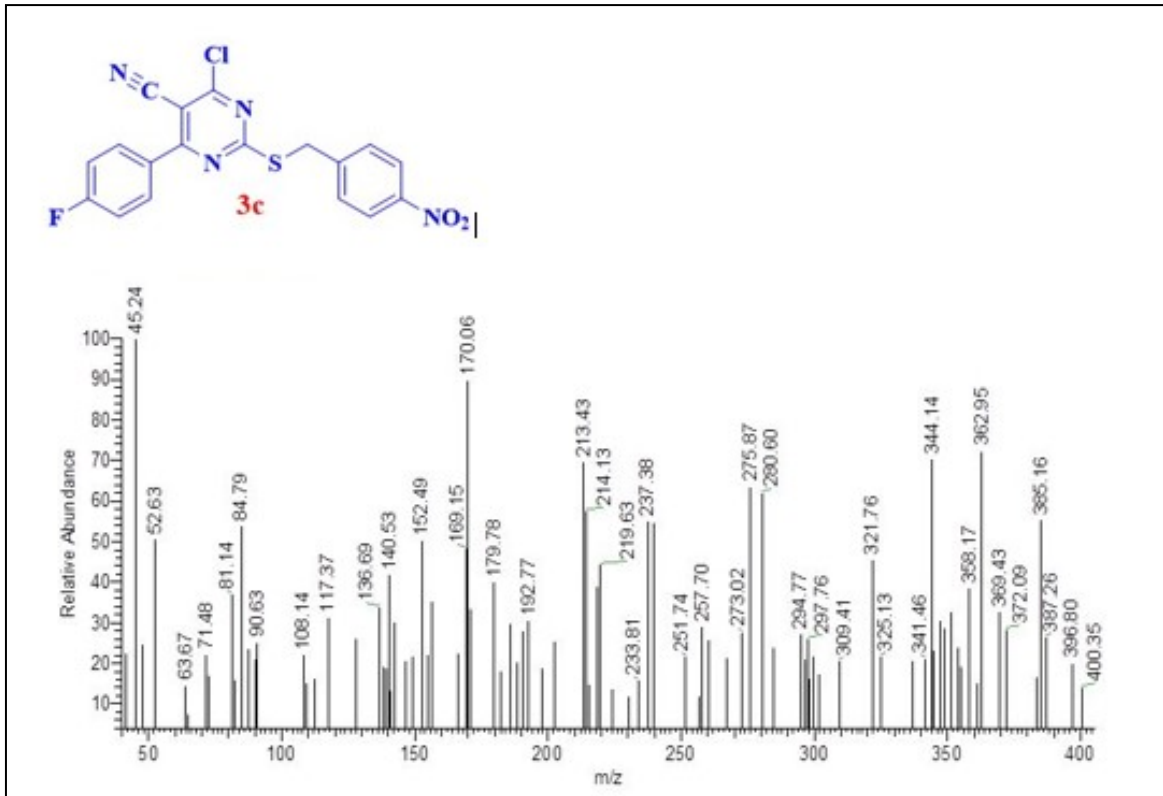


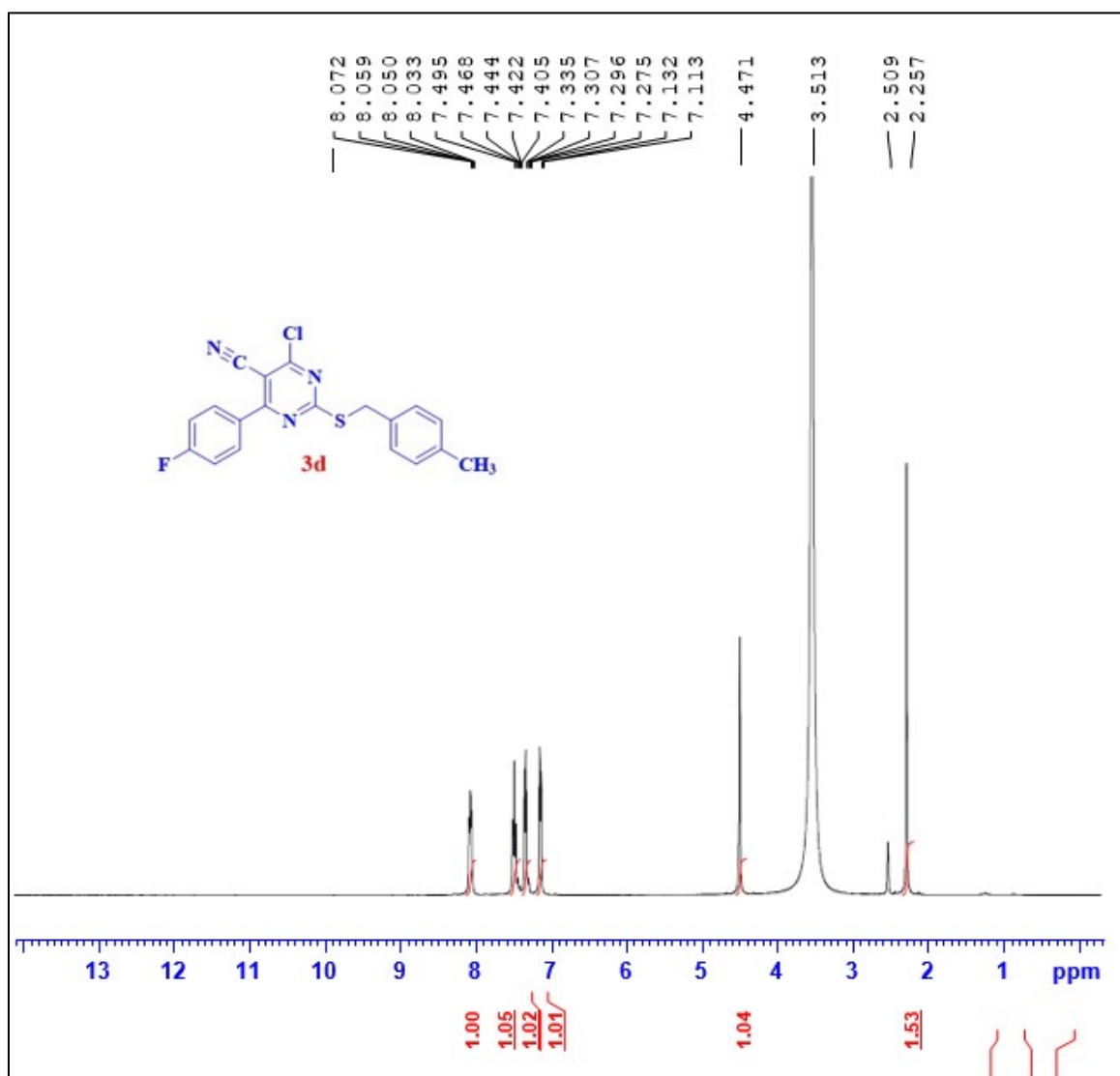
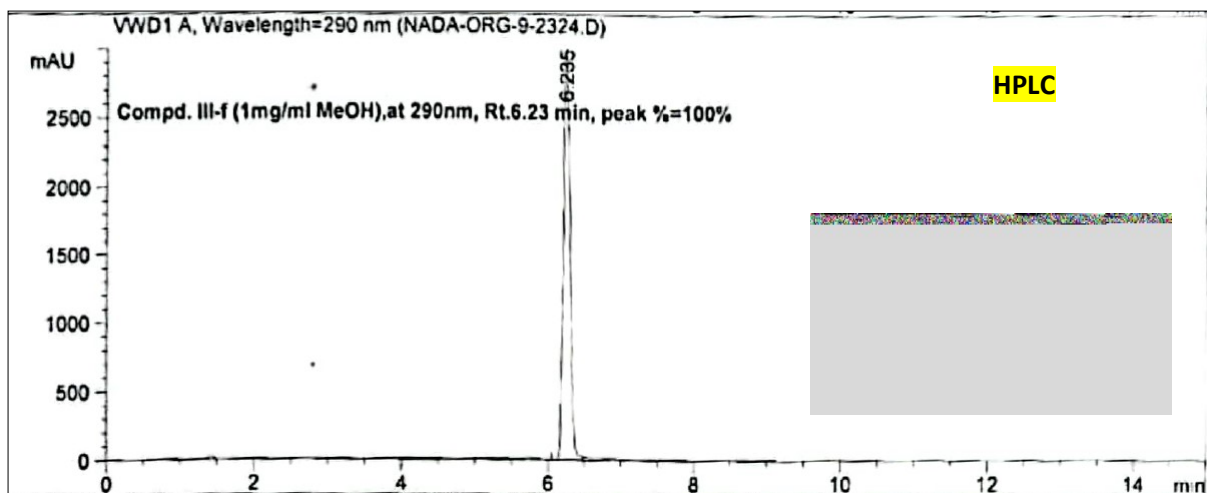


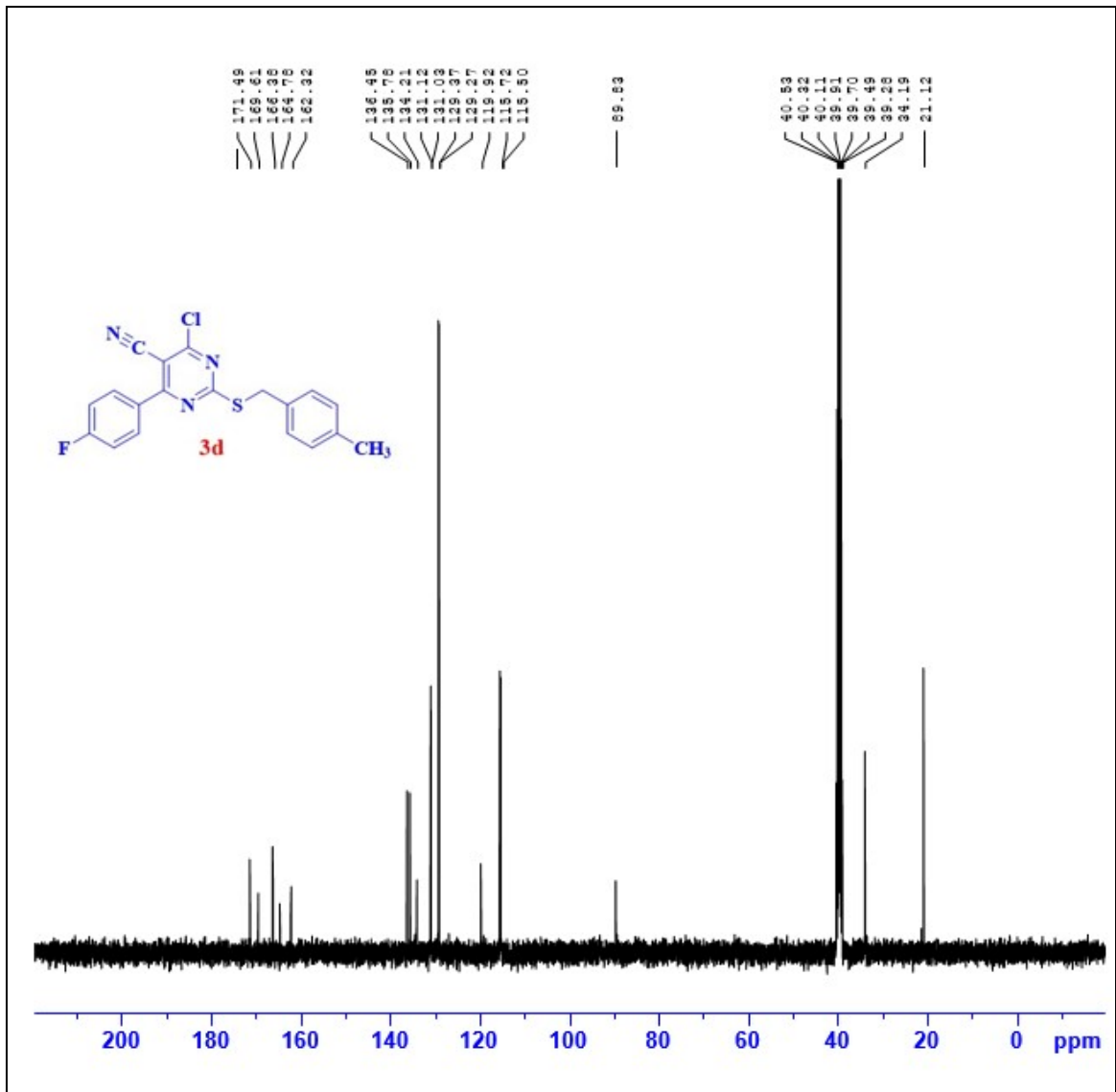


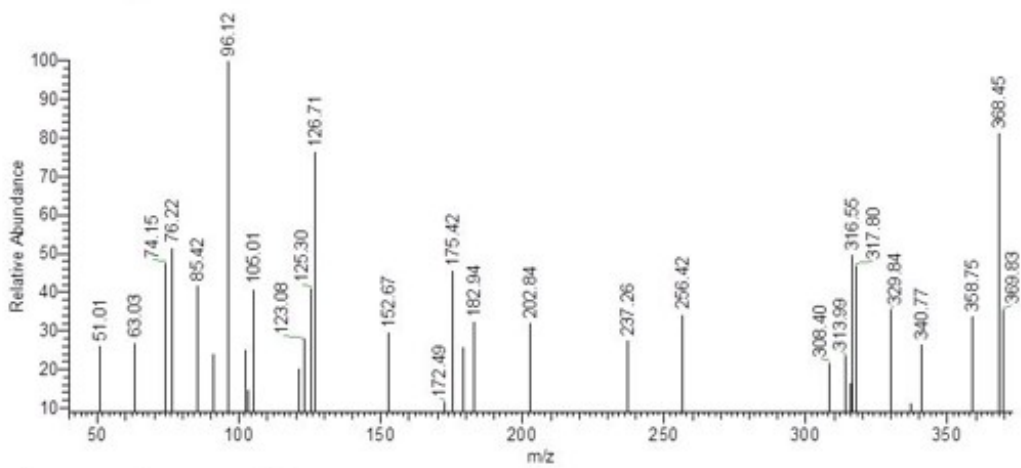
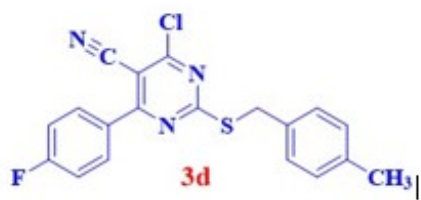


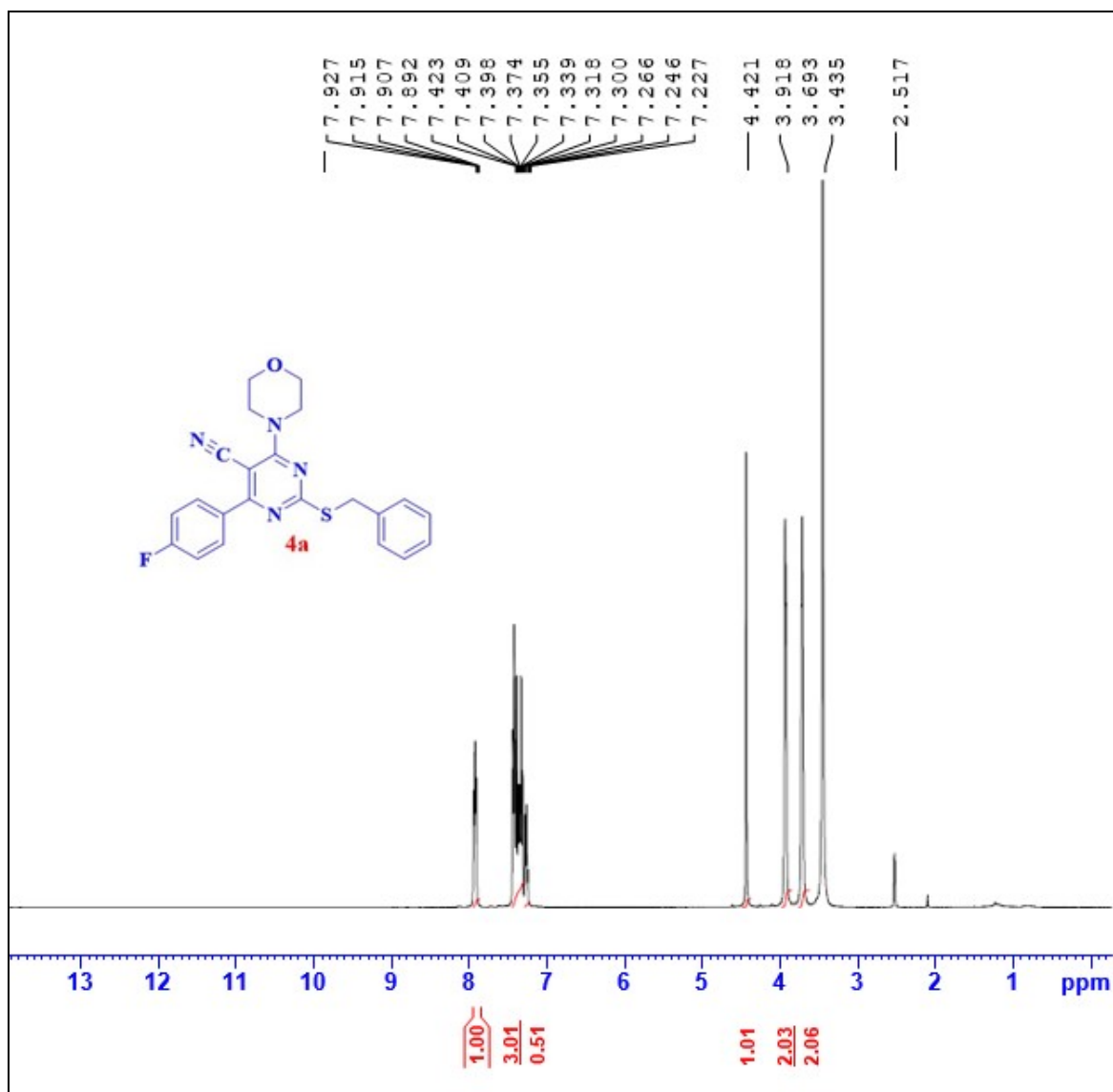


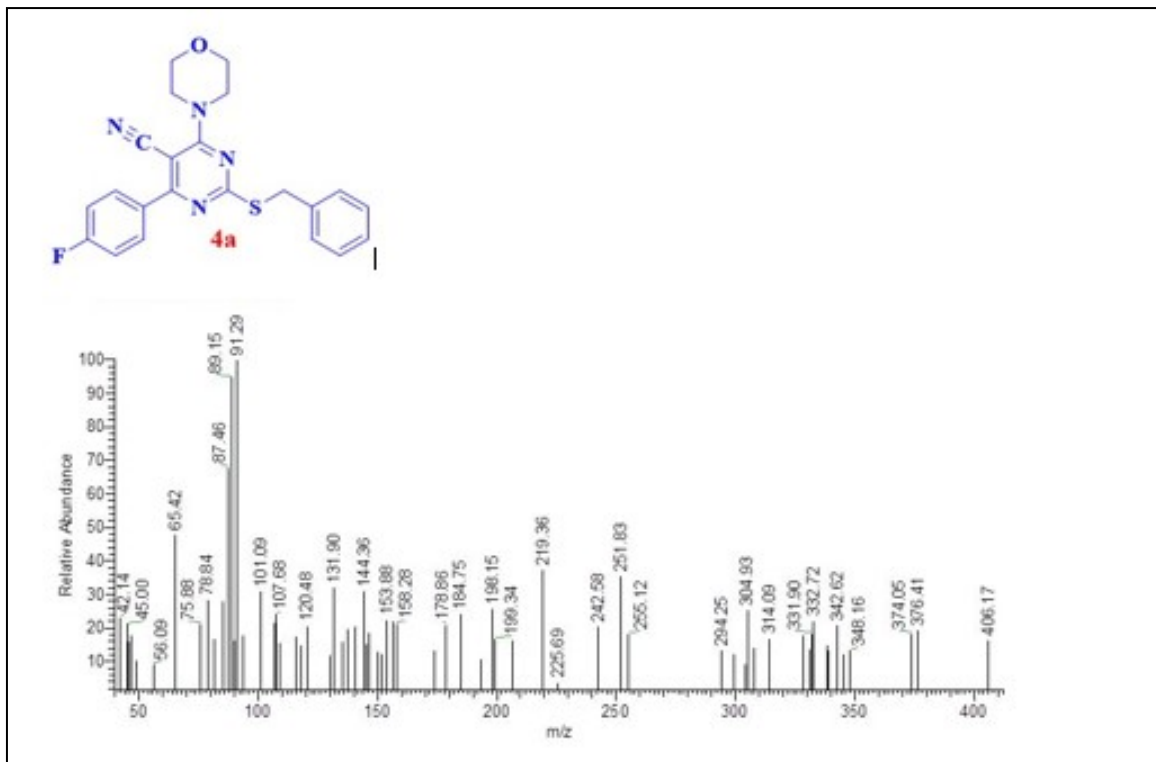
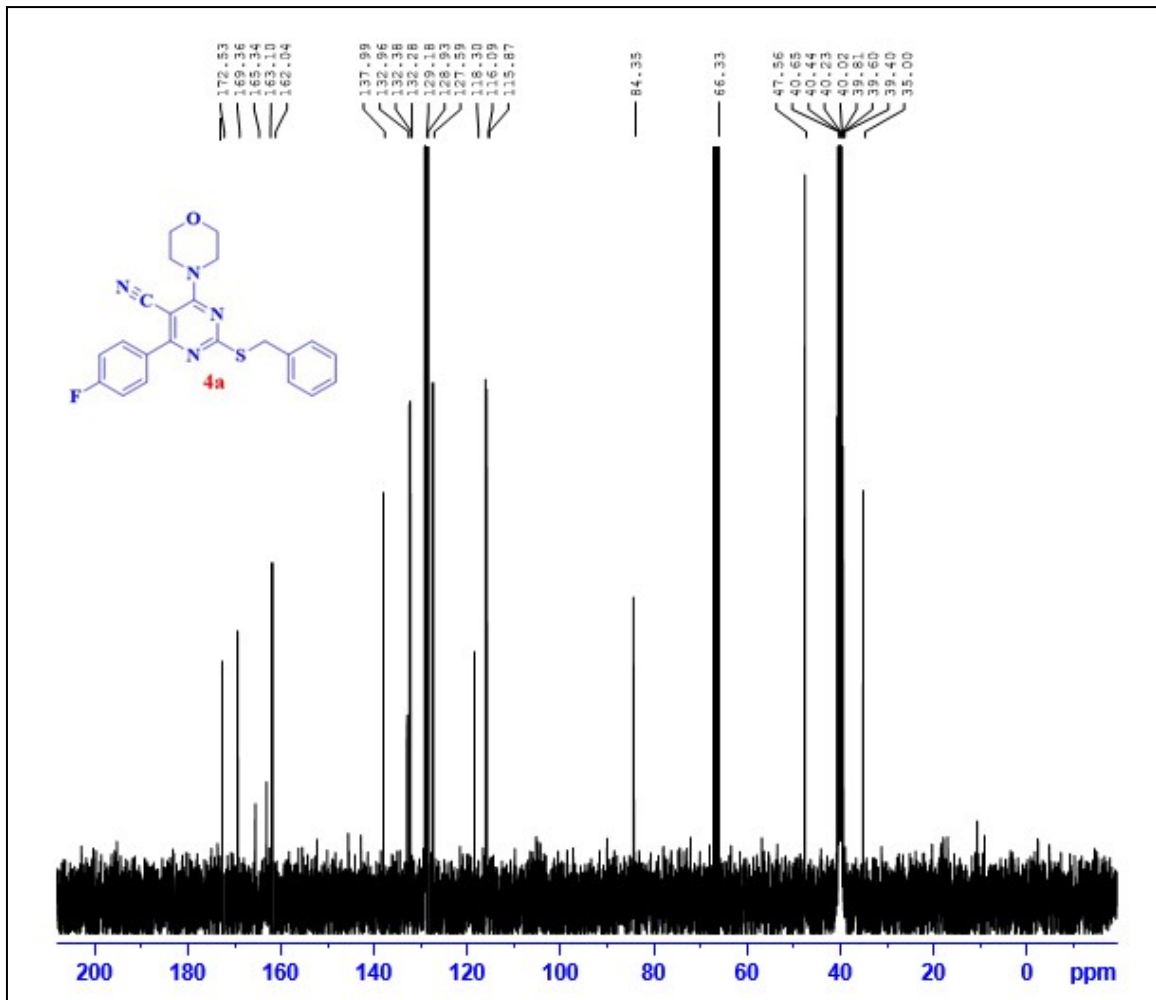




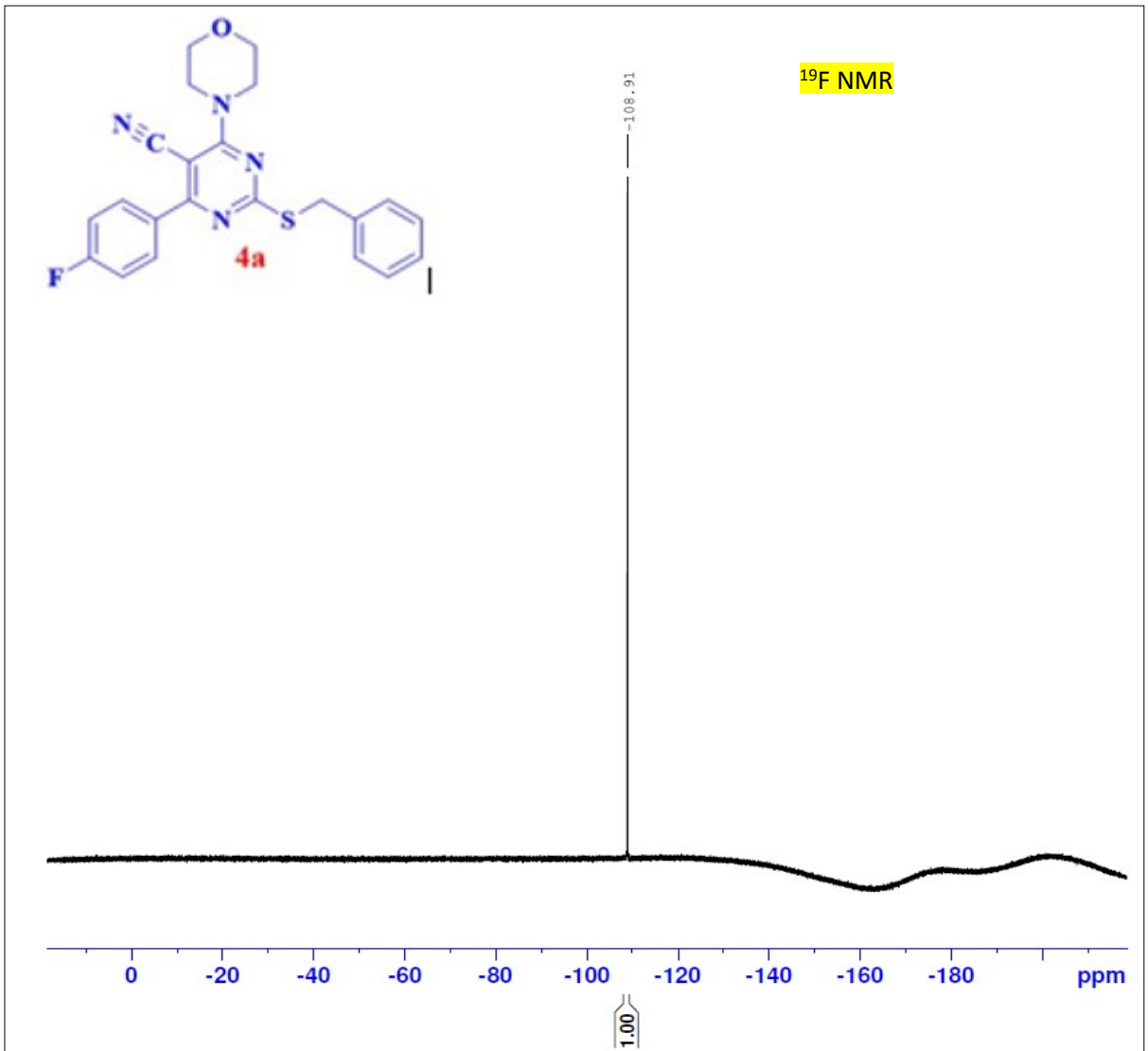


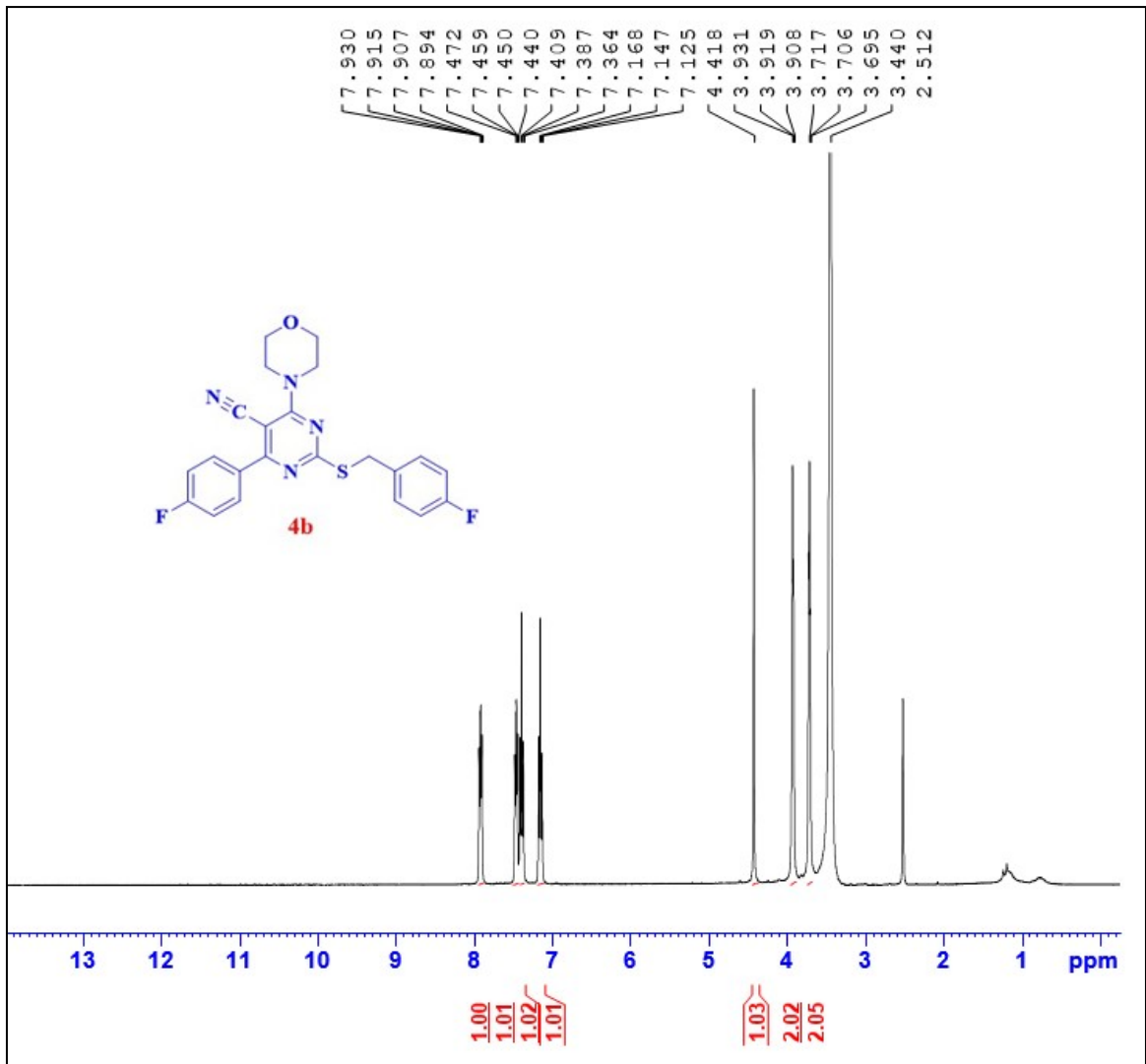


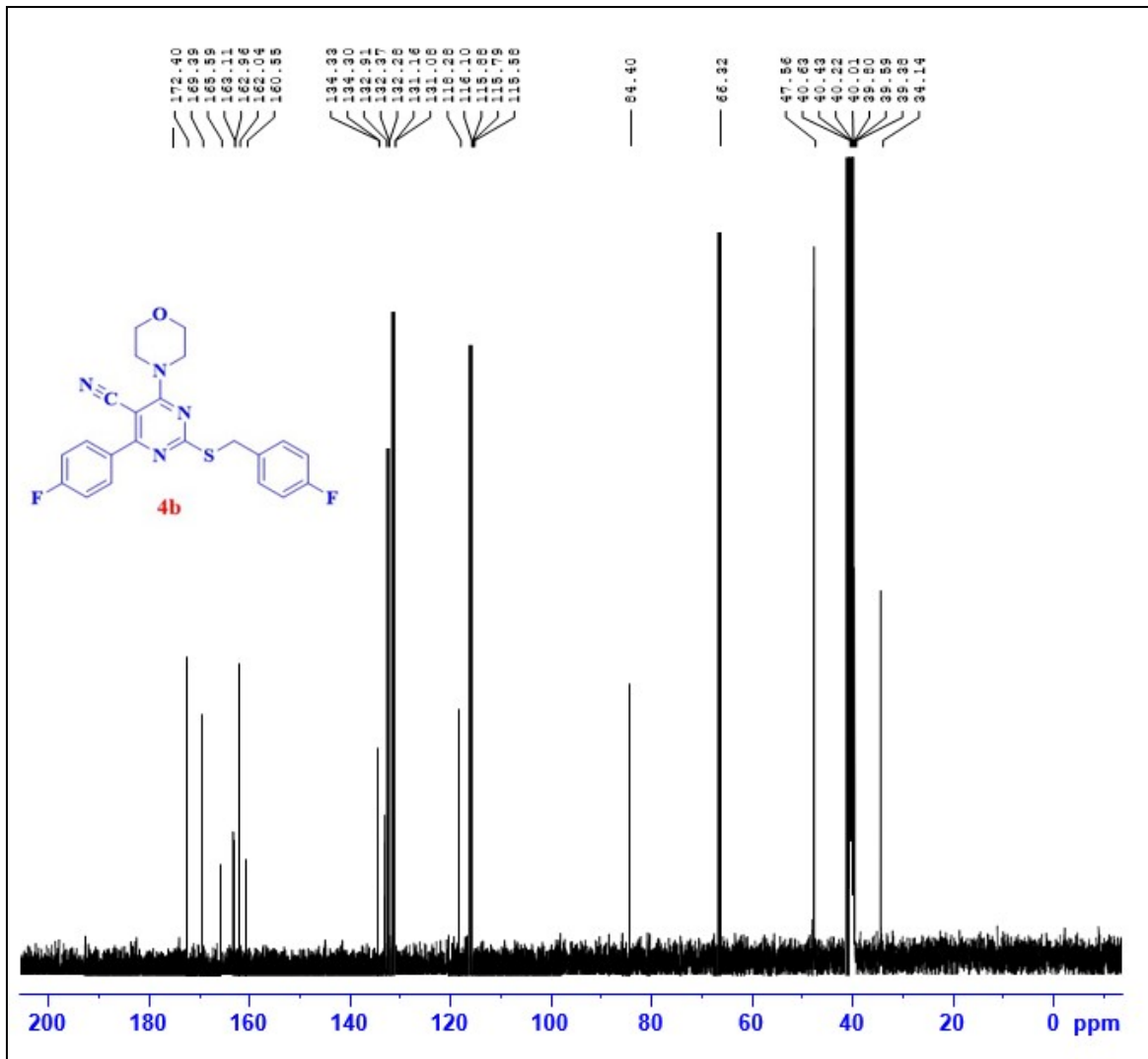


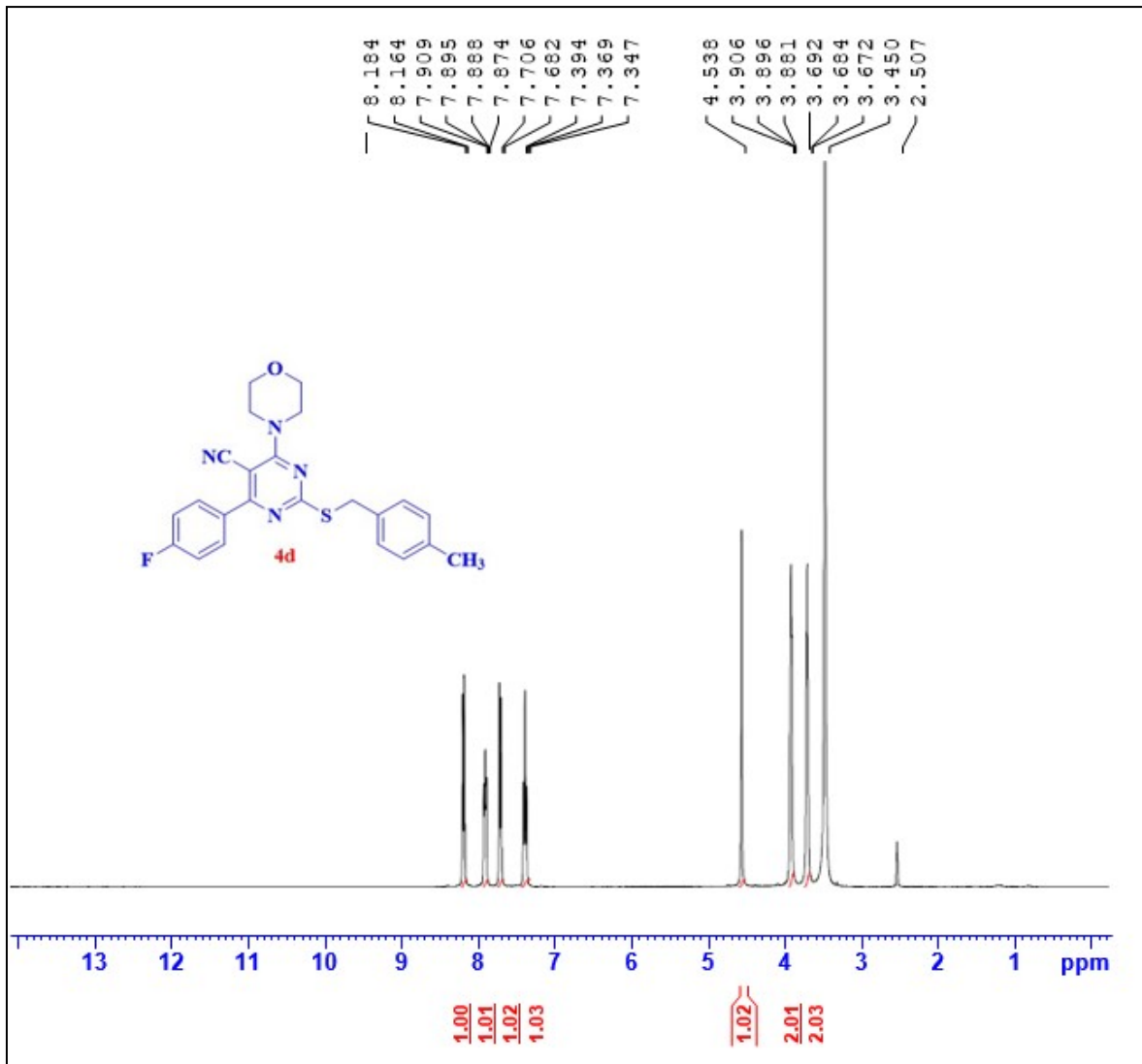


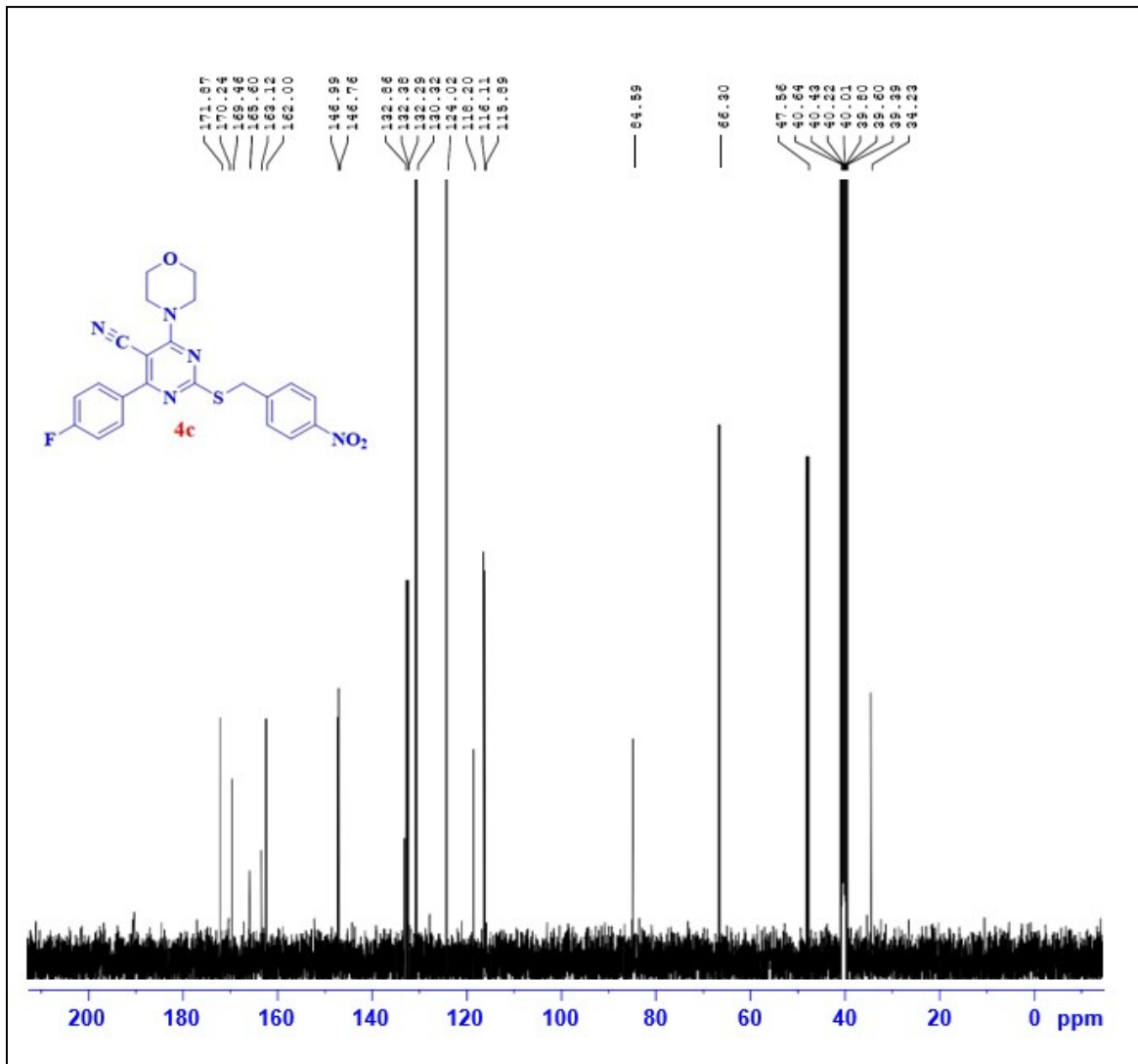


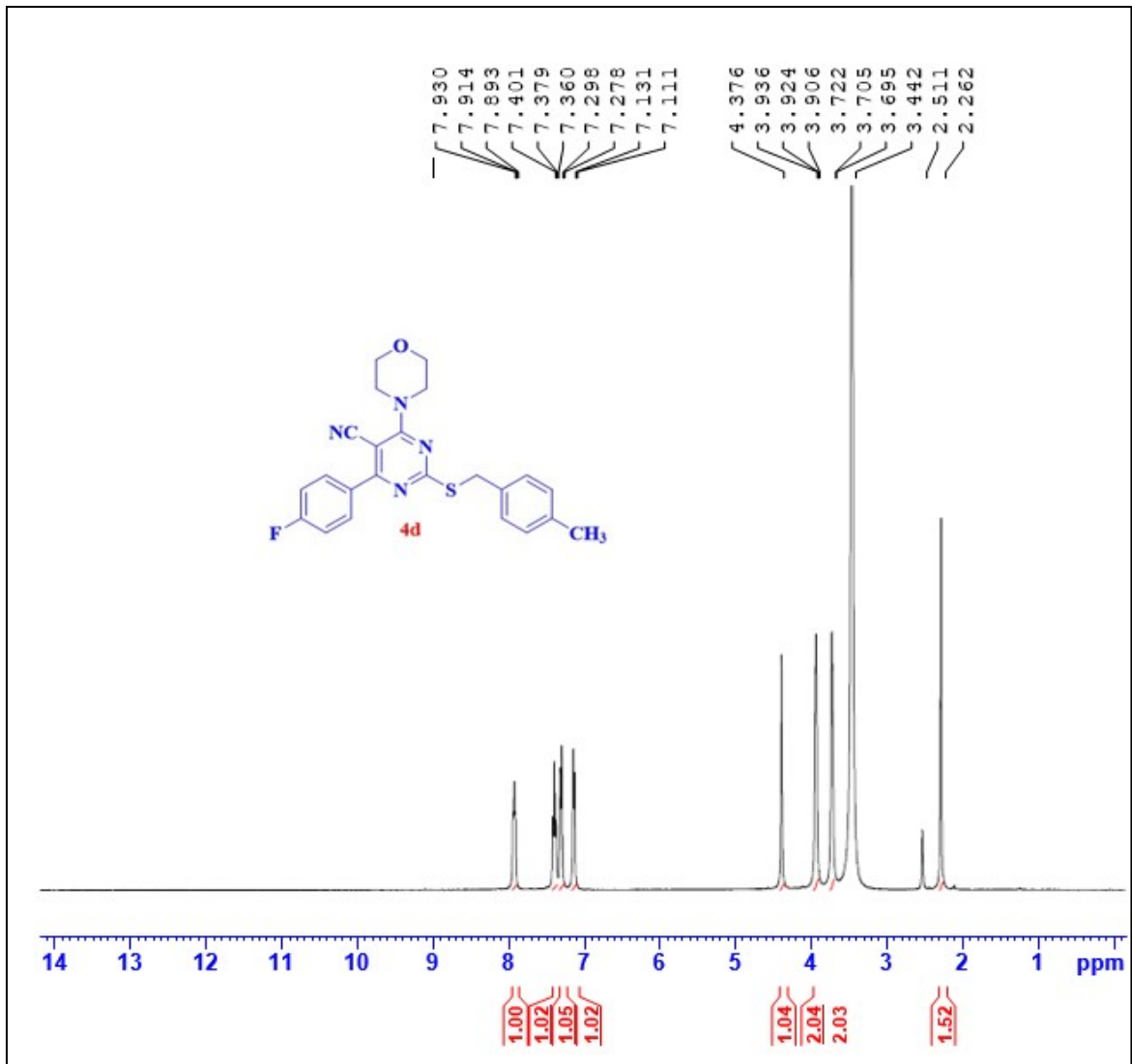




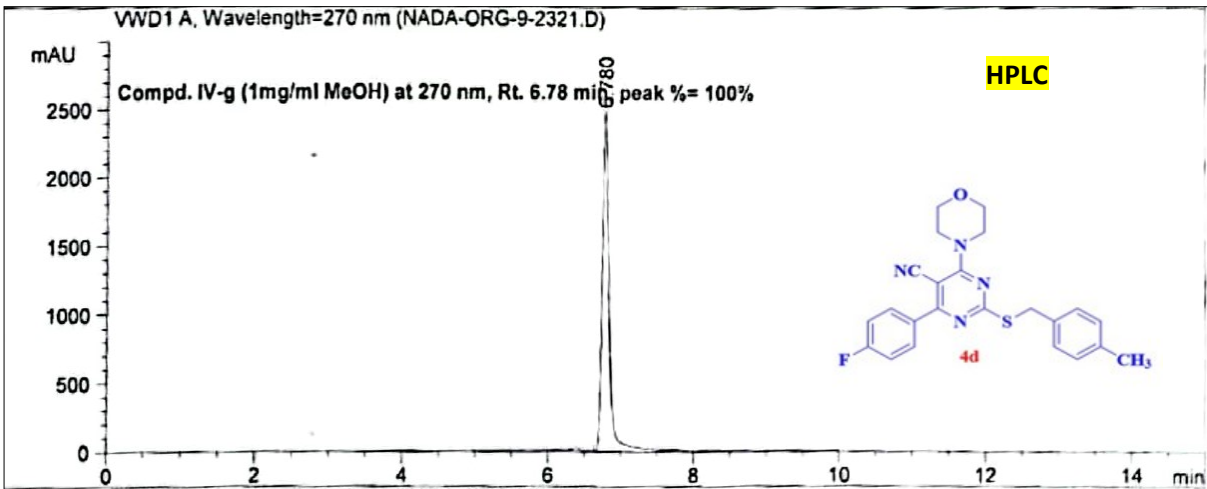
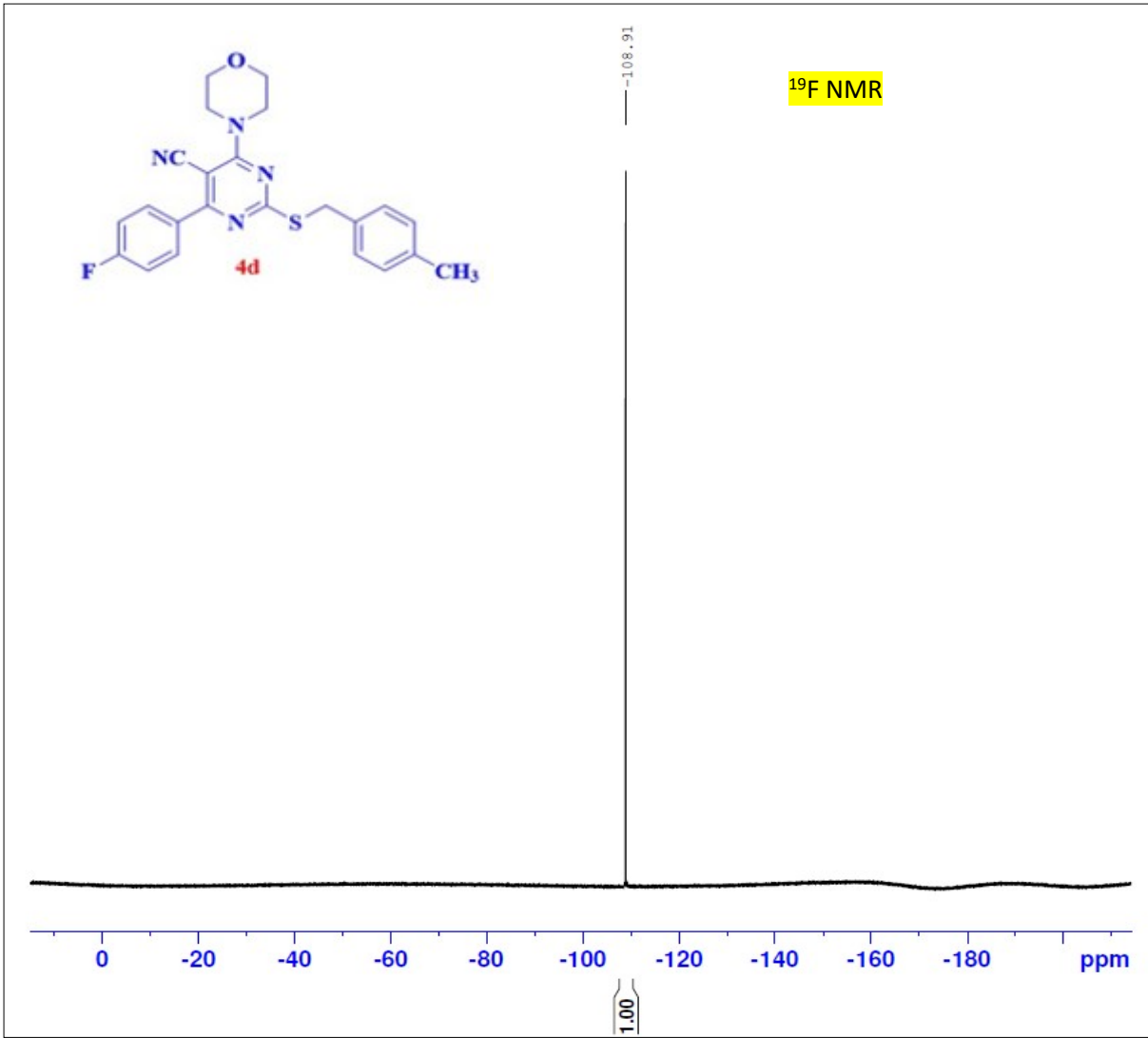




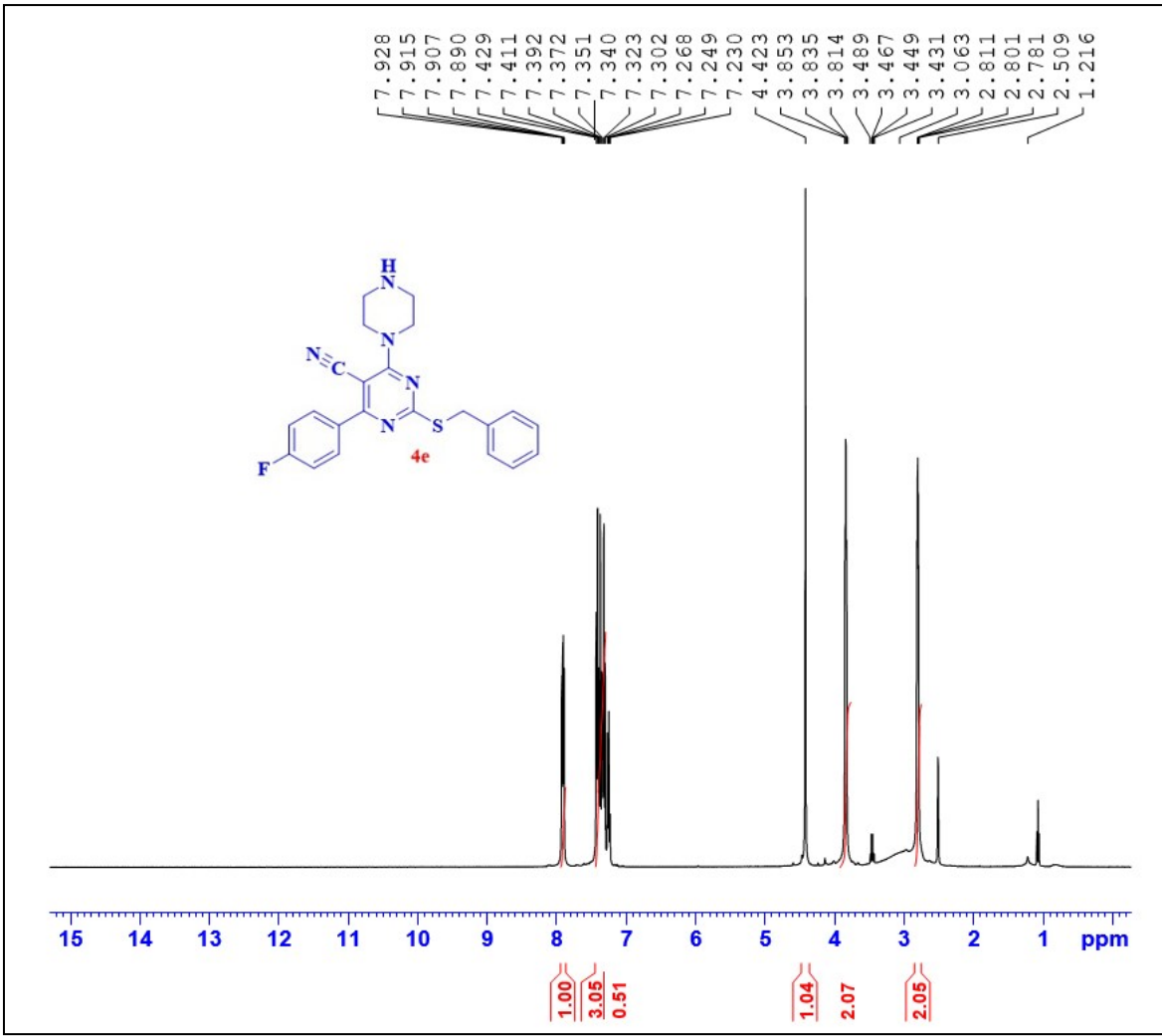


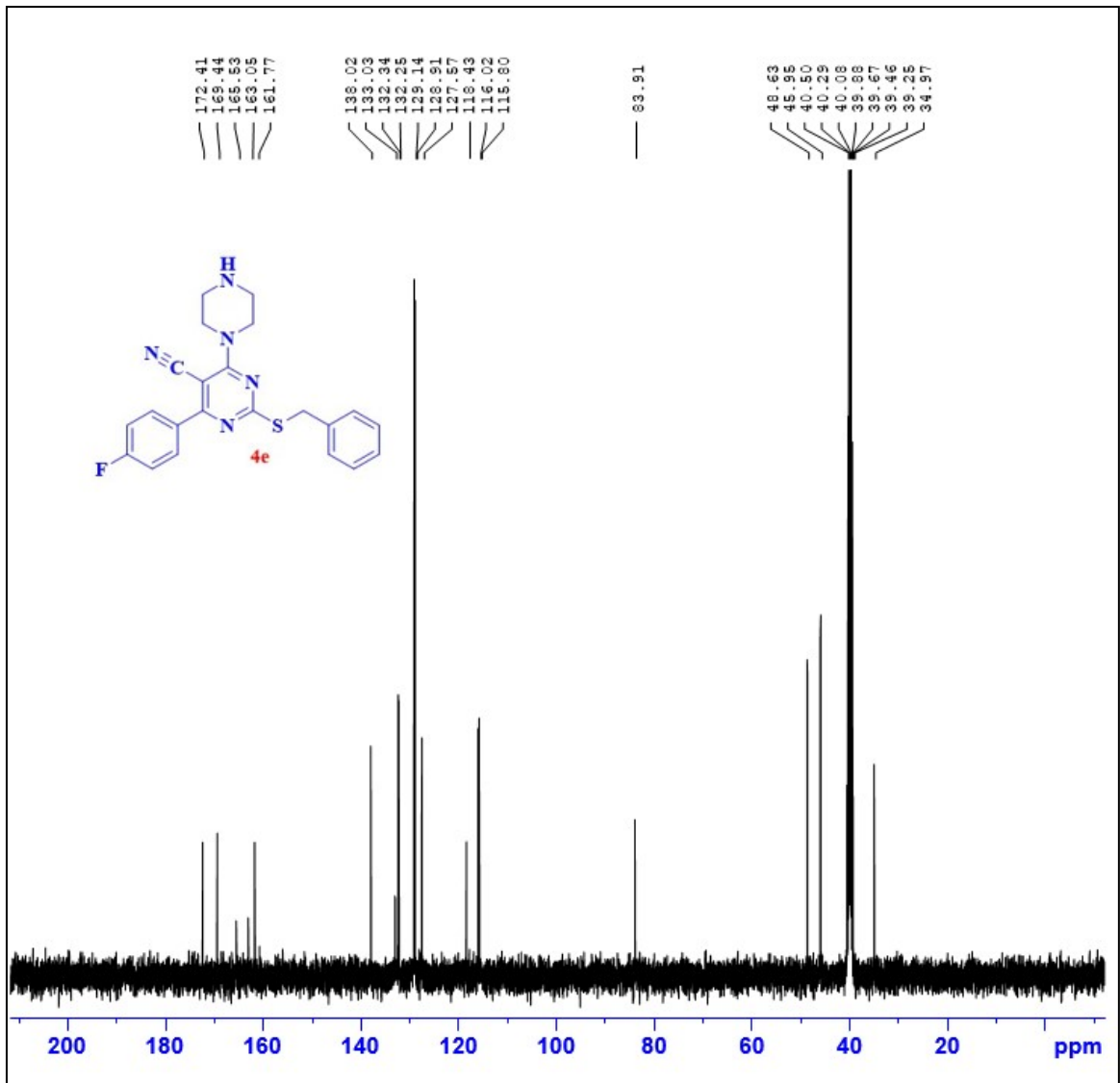


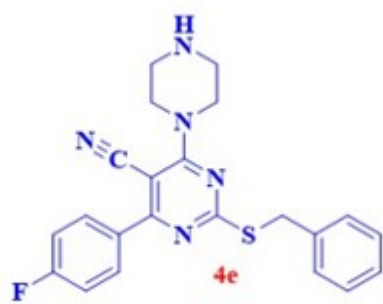




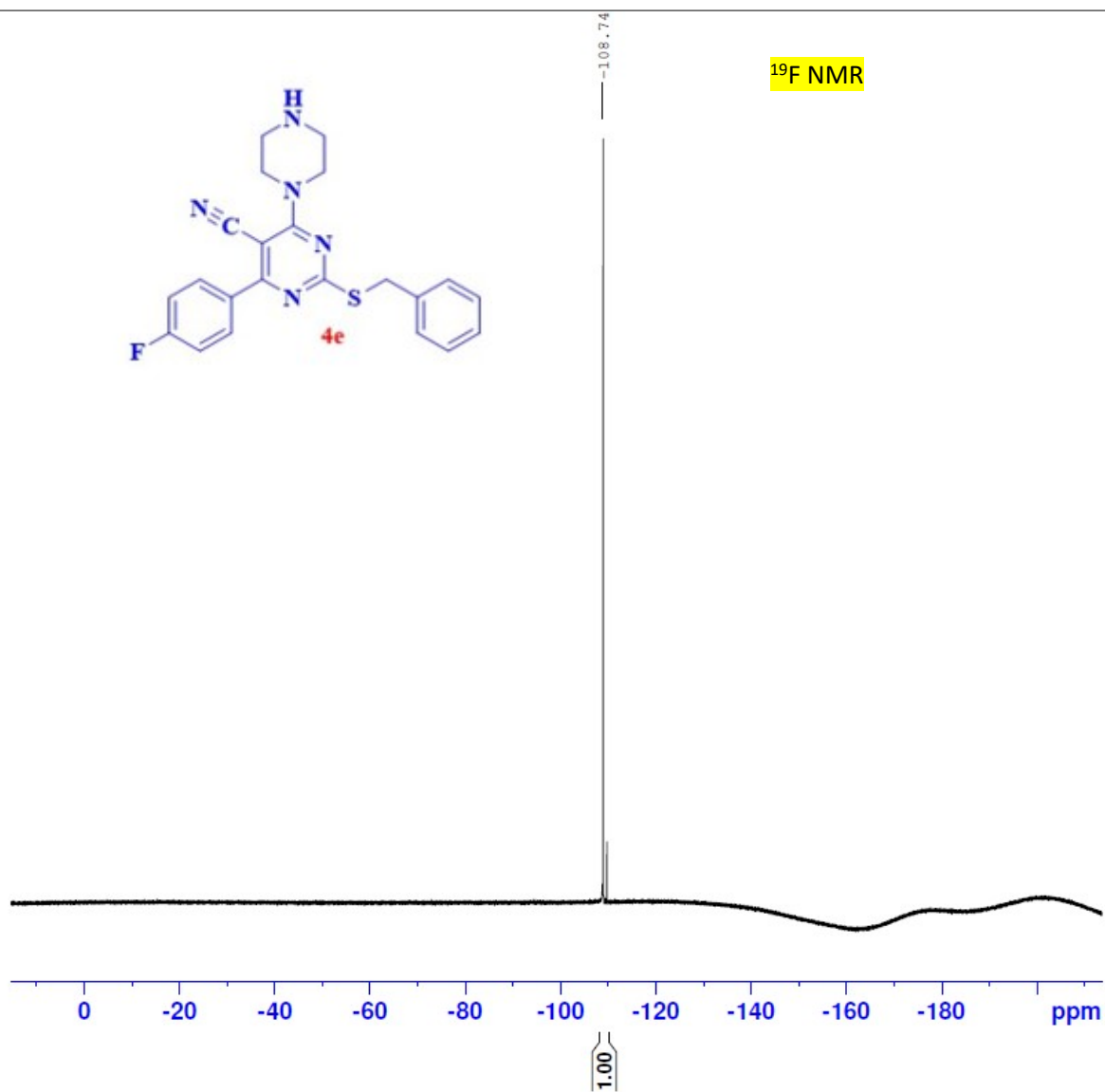


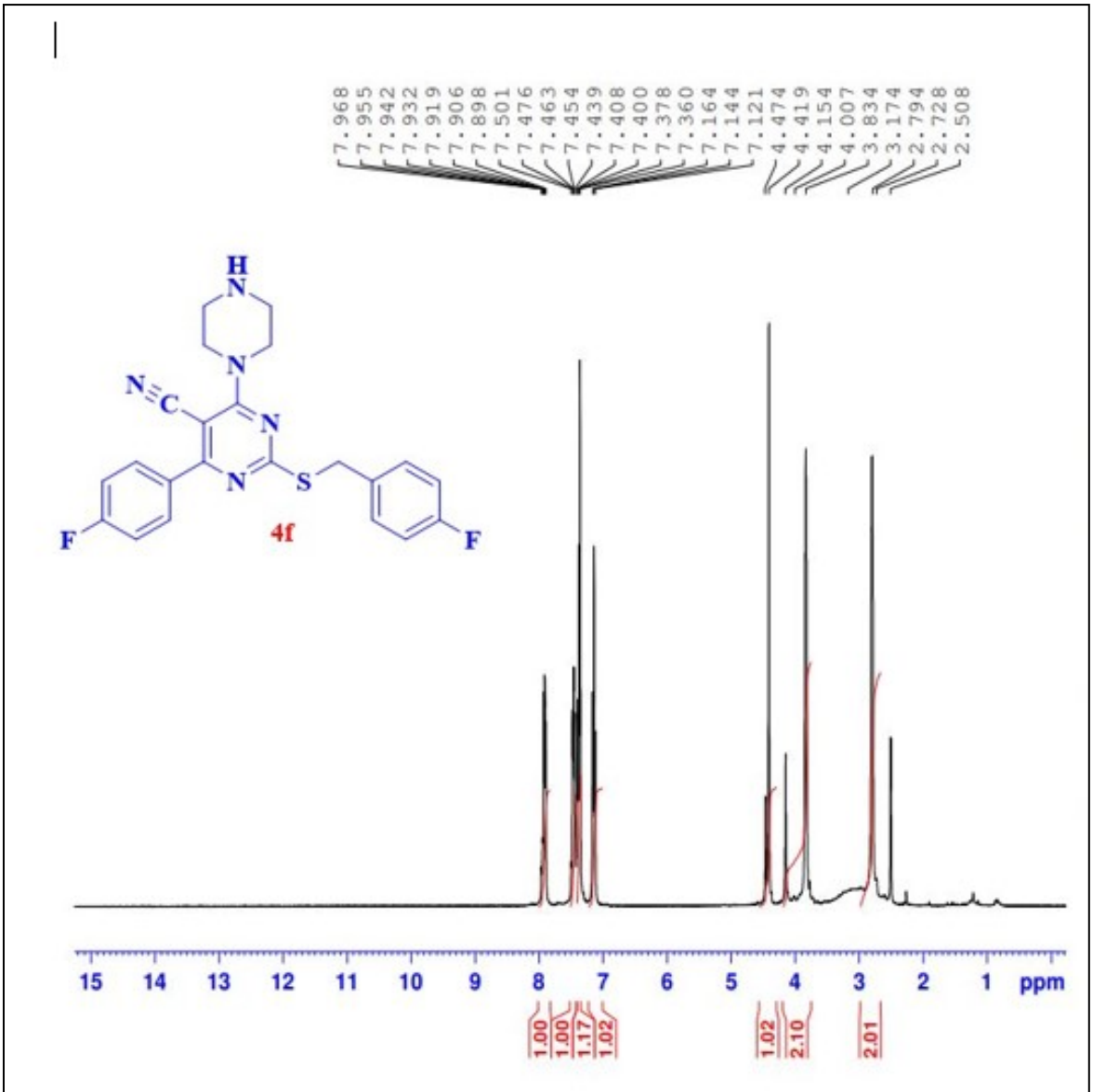


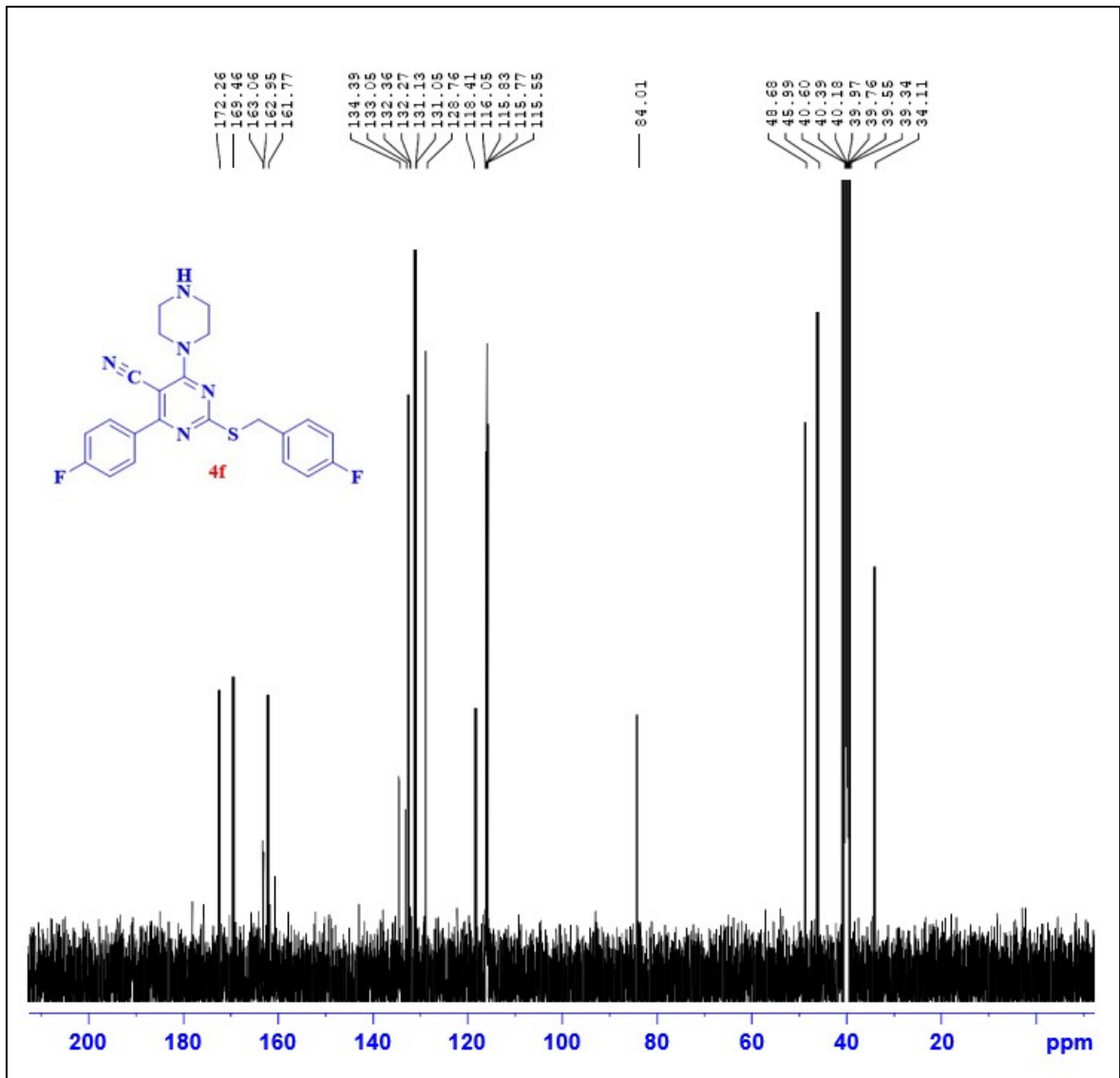


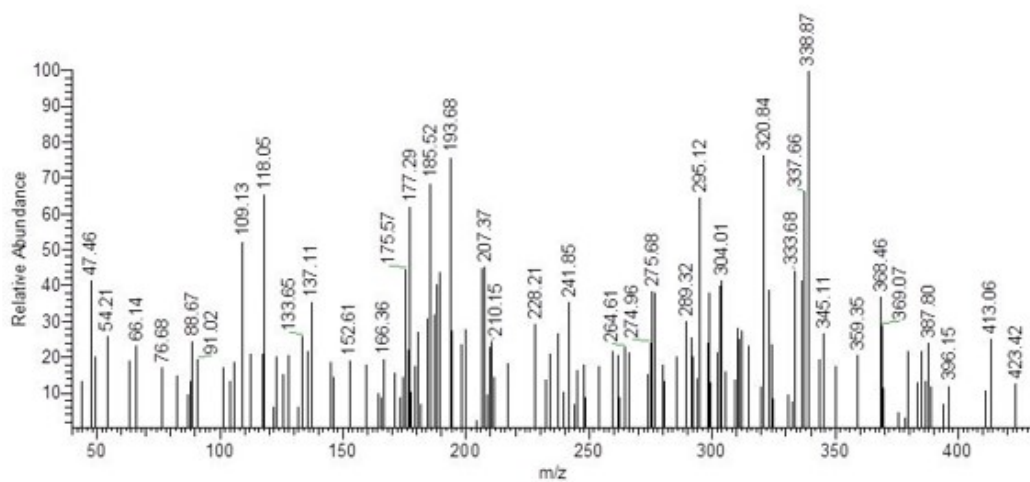
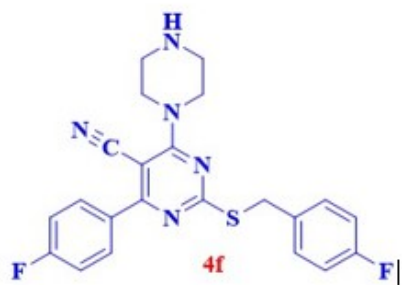


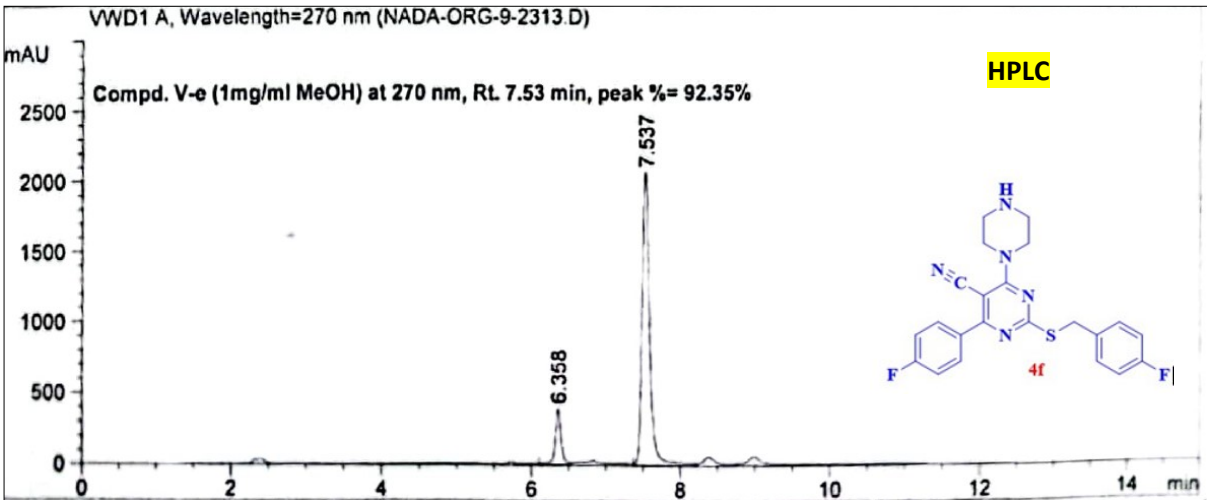
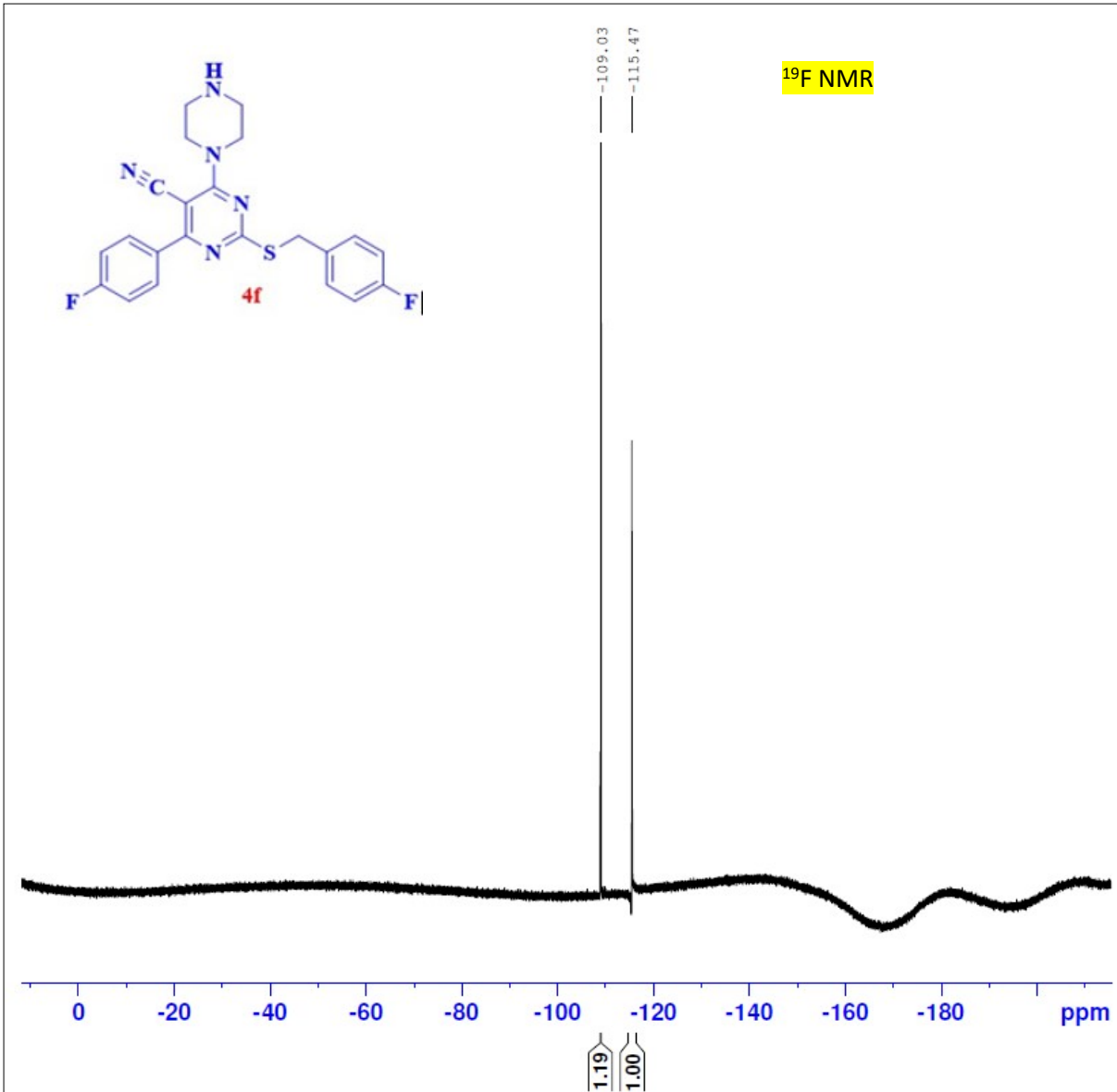
**$^{19}F$  NMR**

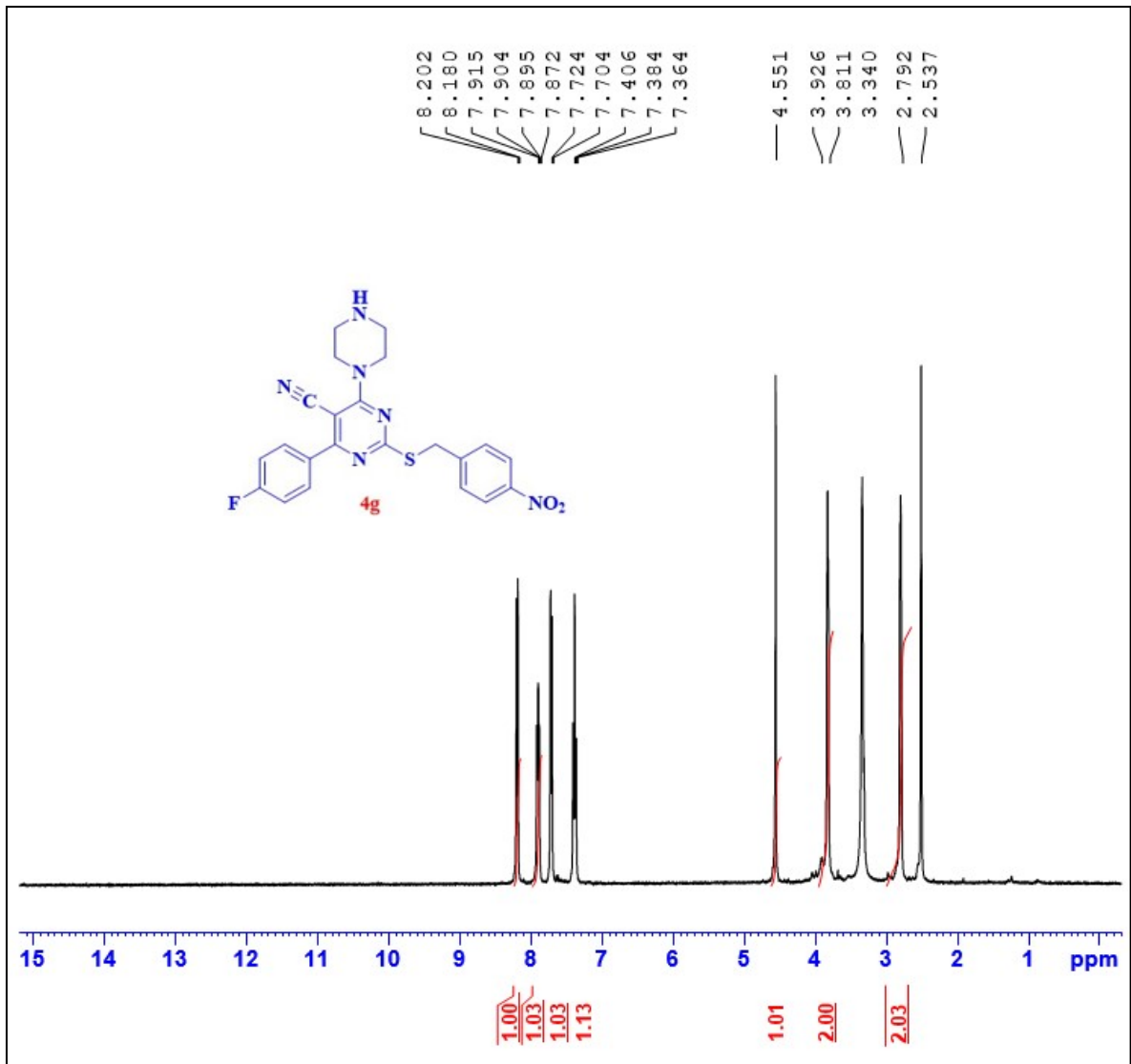




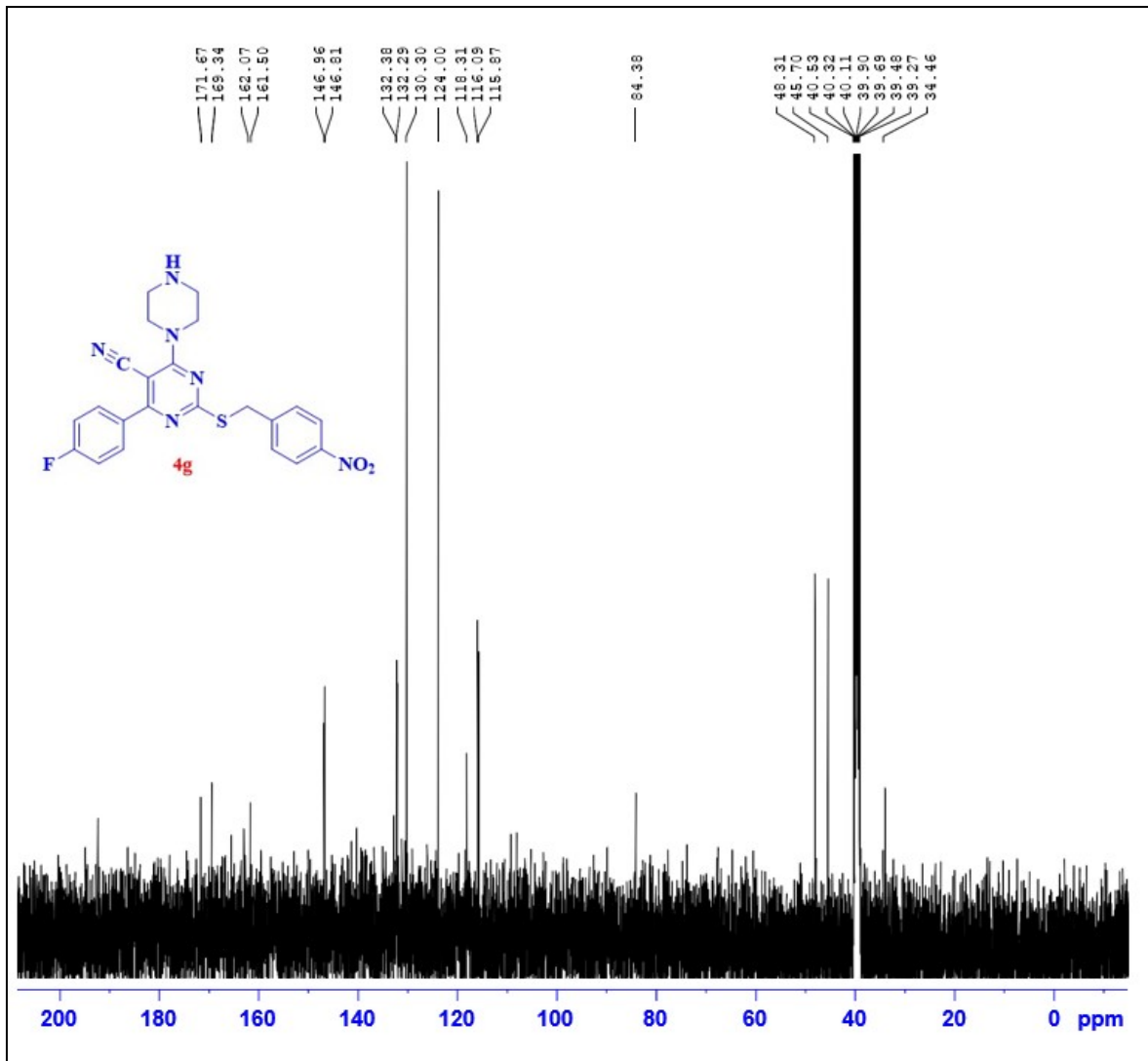


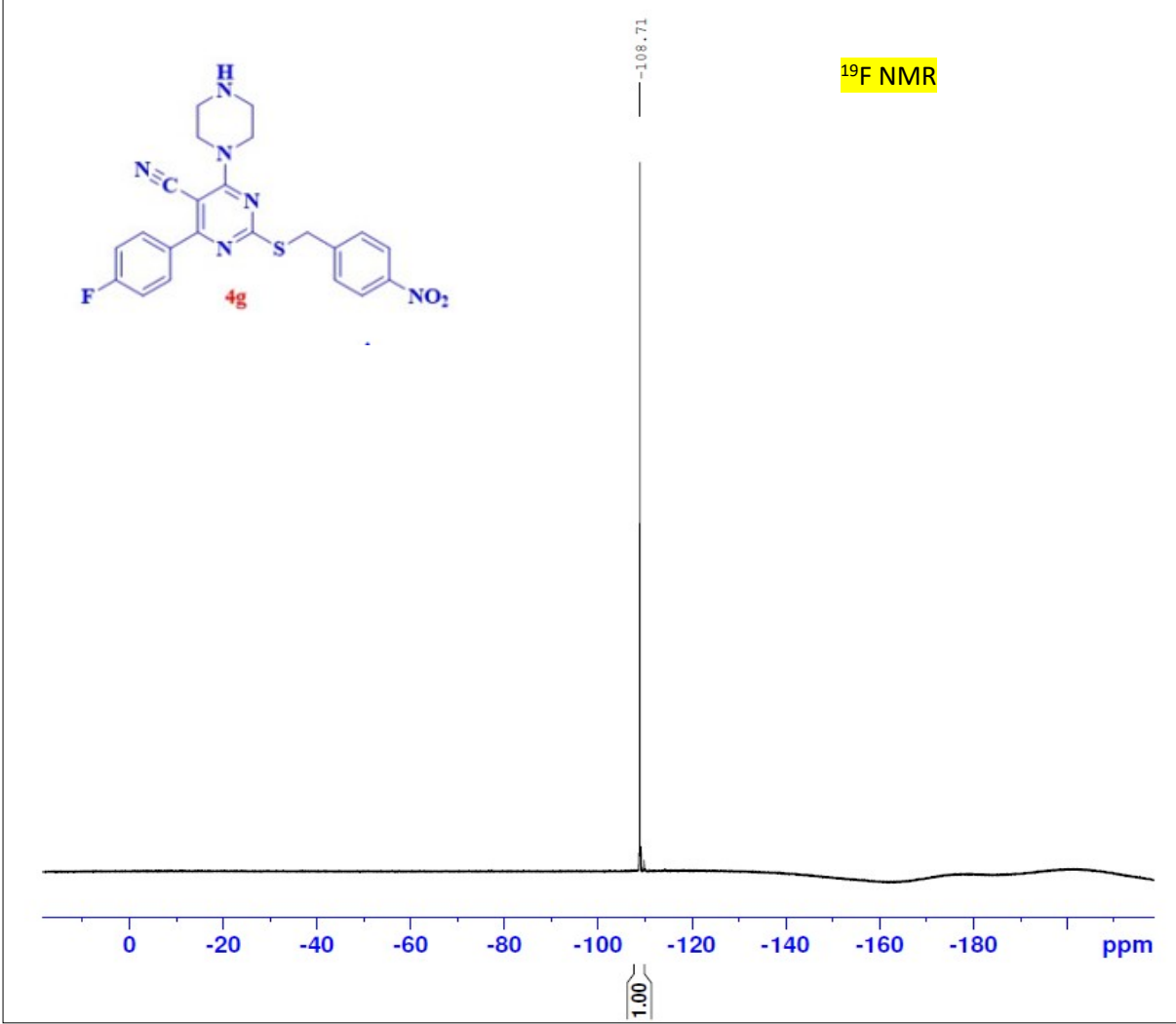


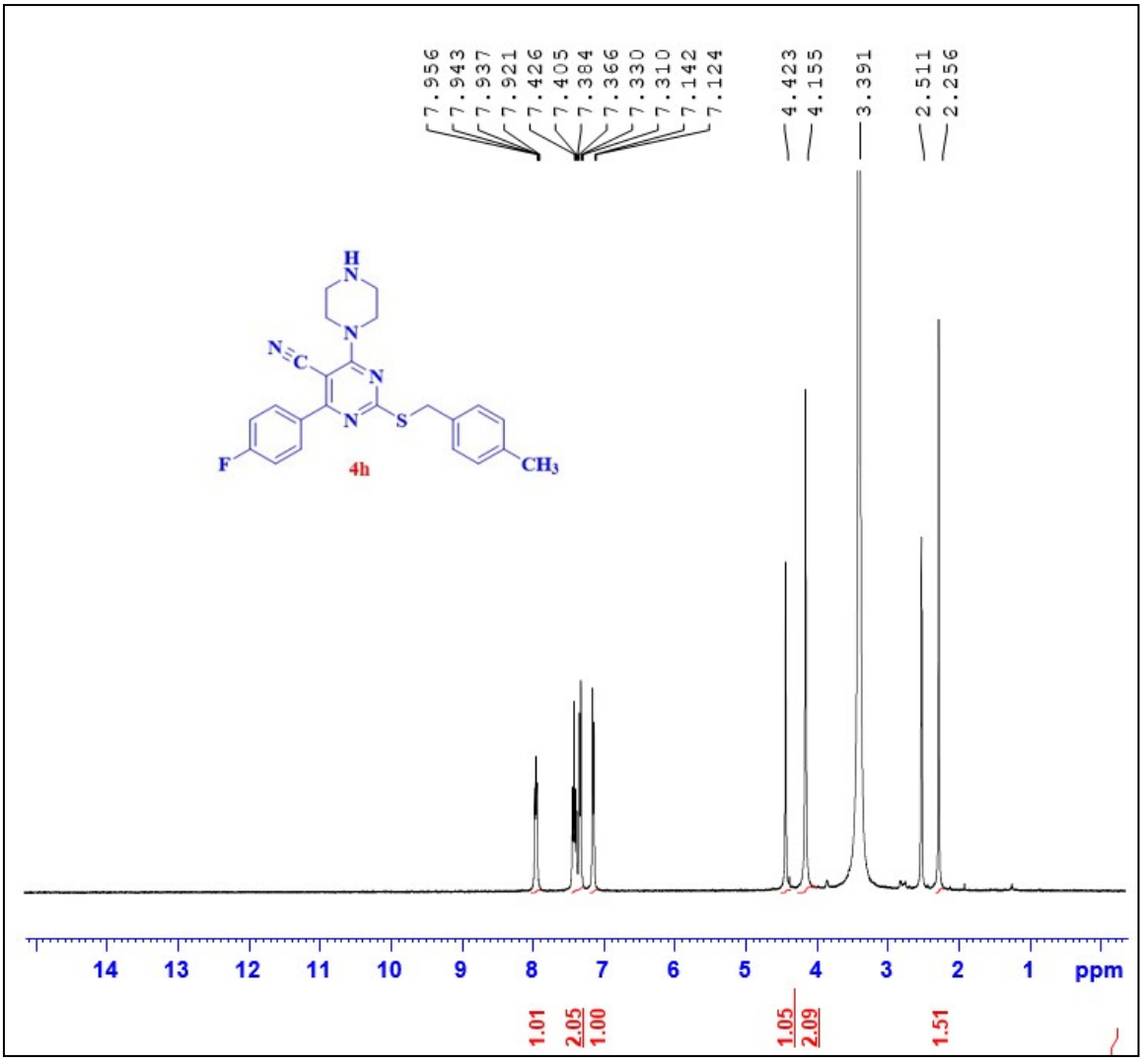


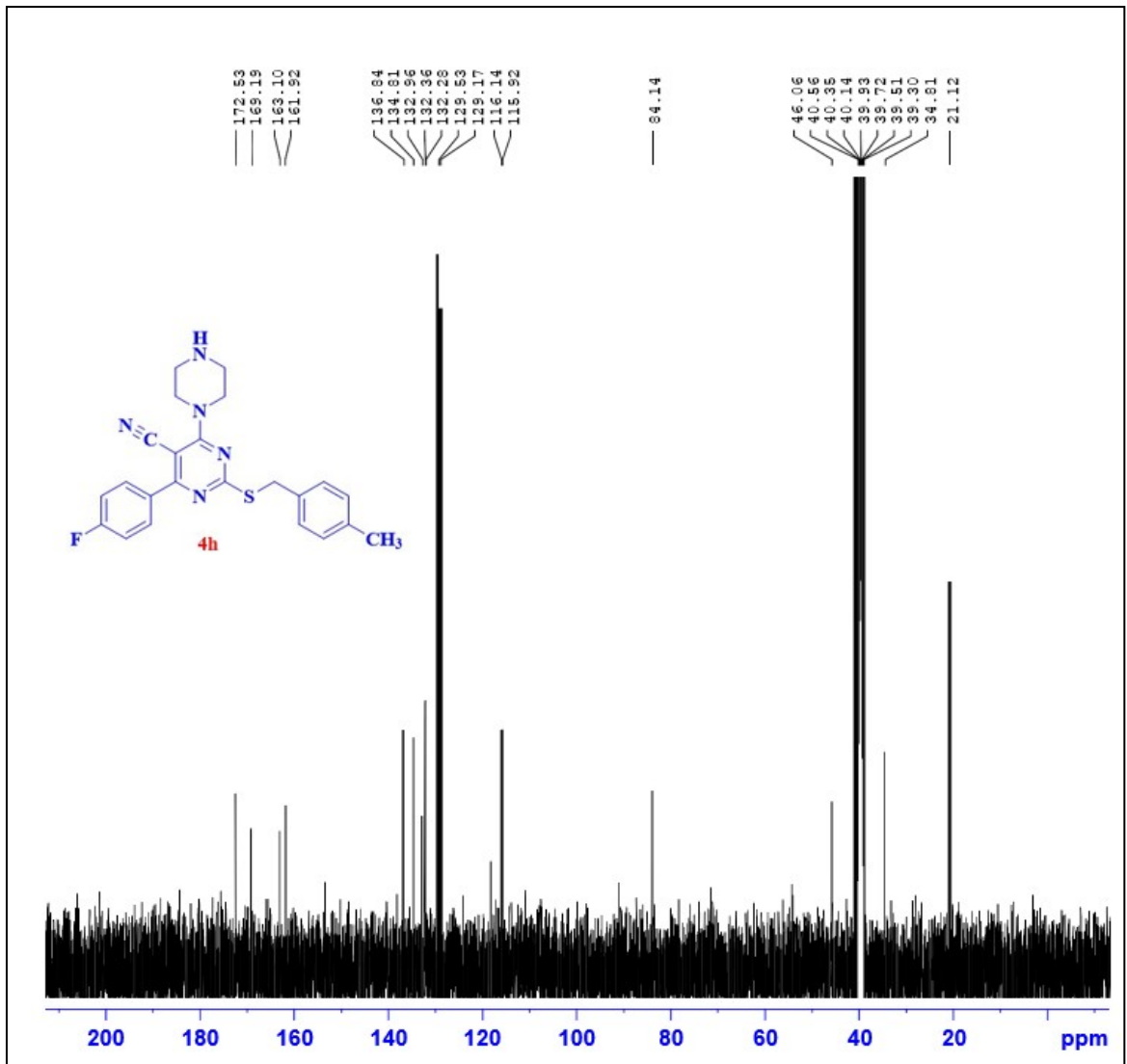


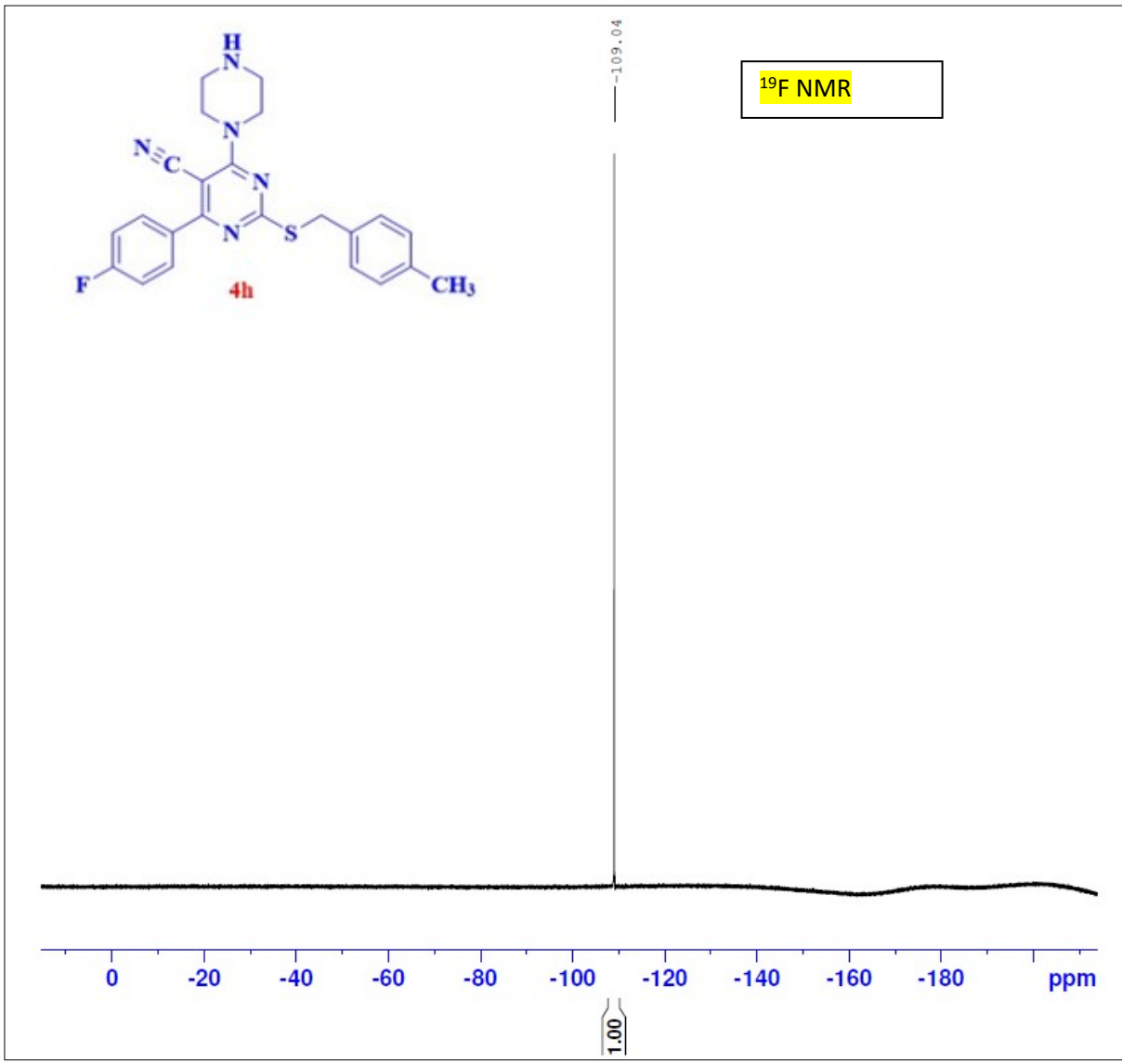


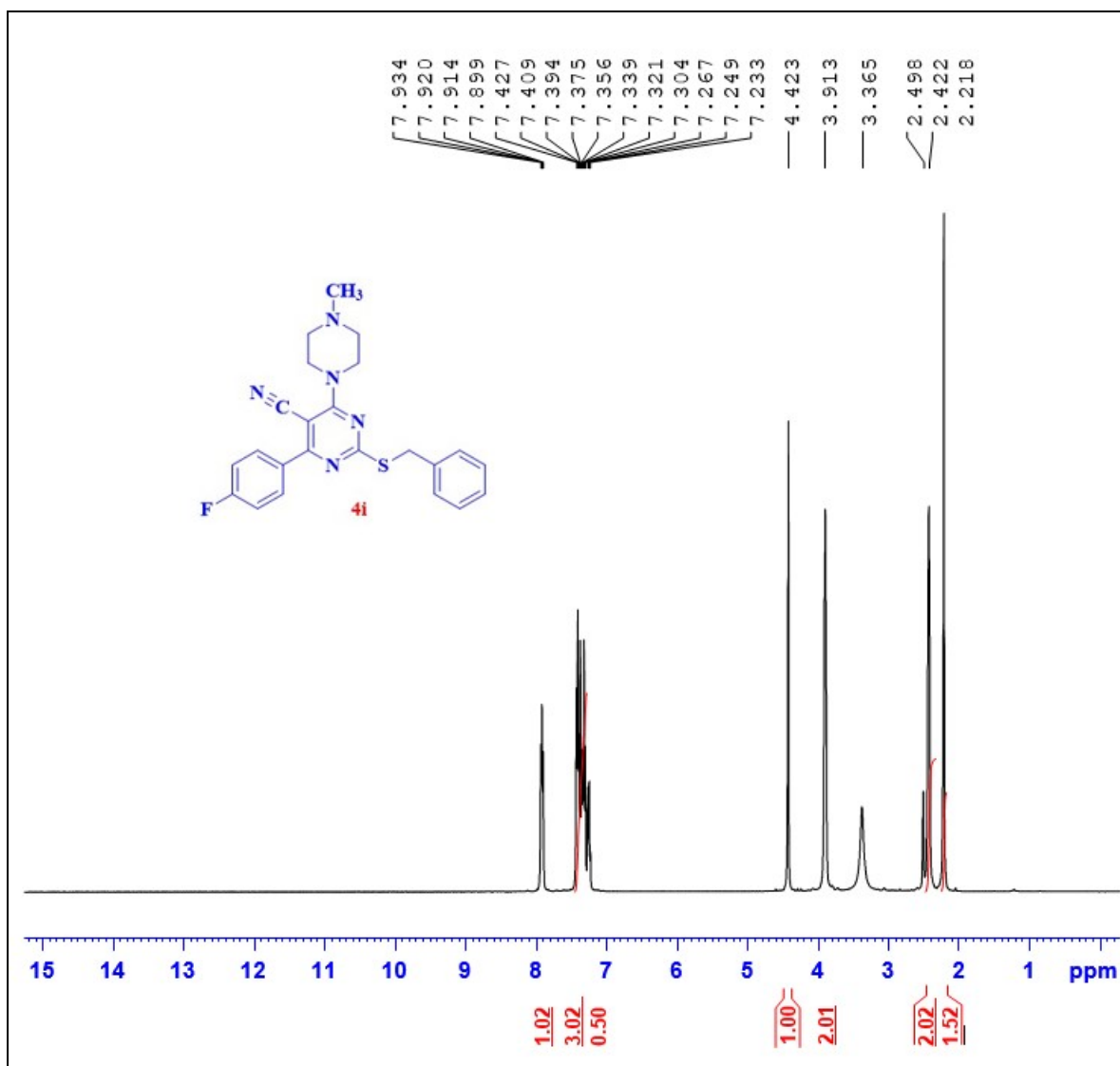


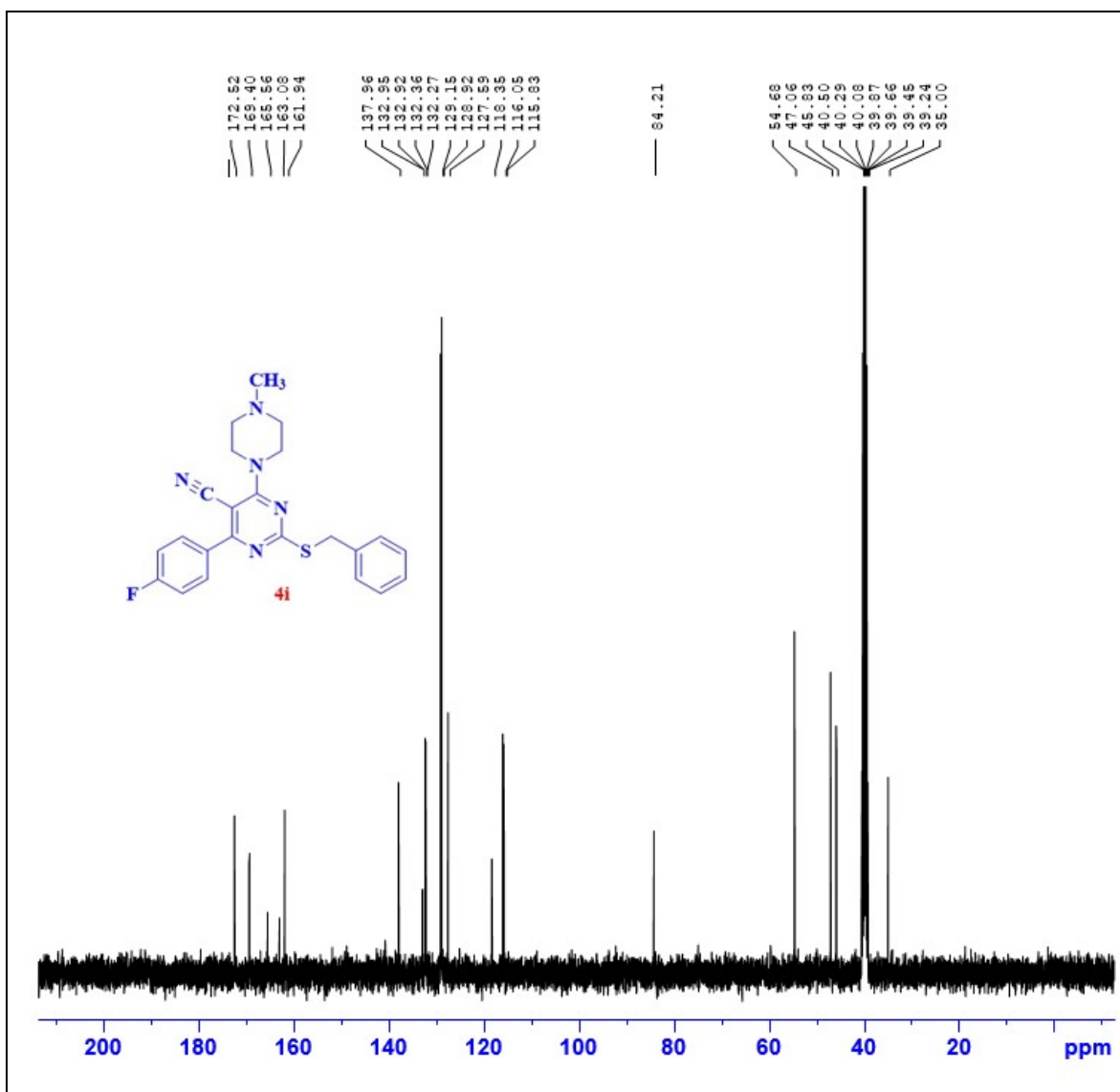
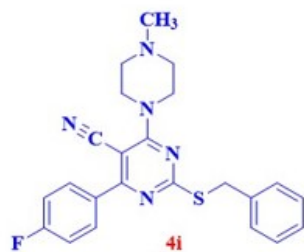


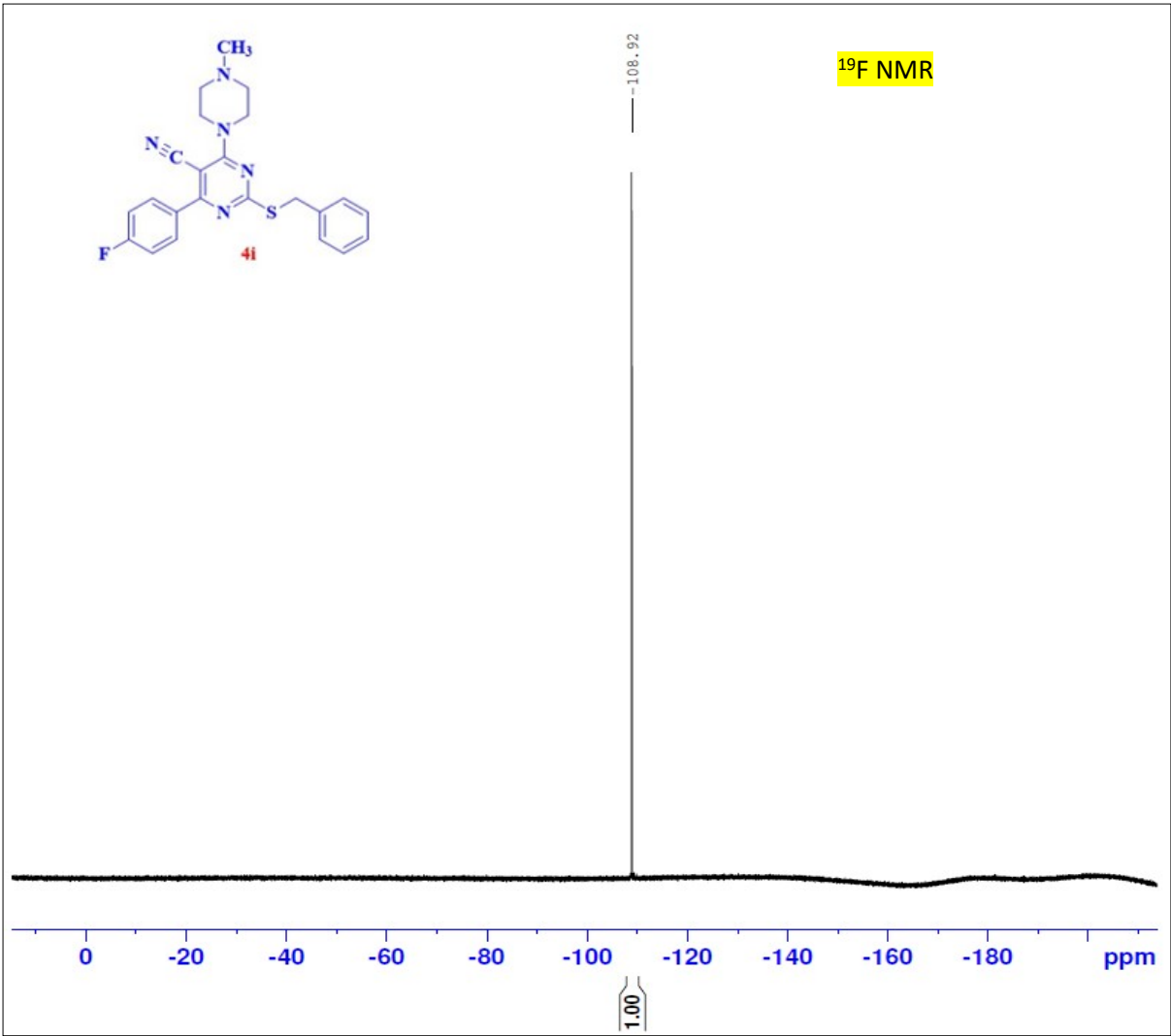




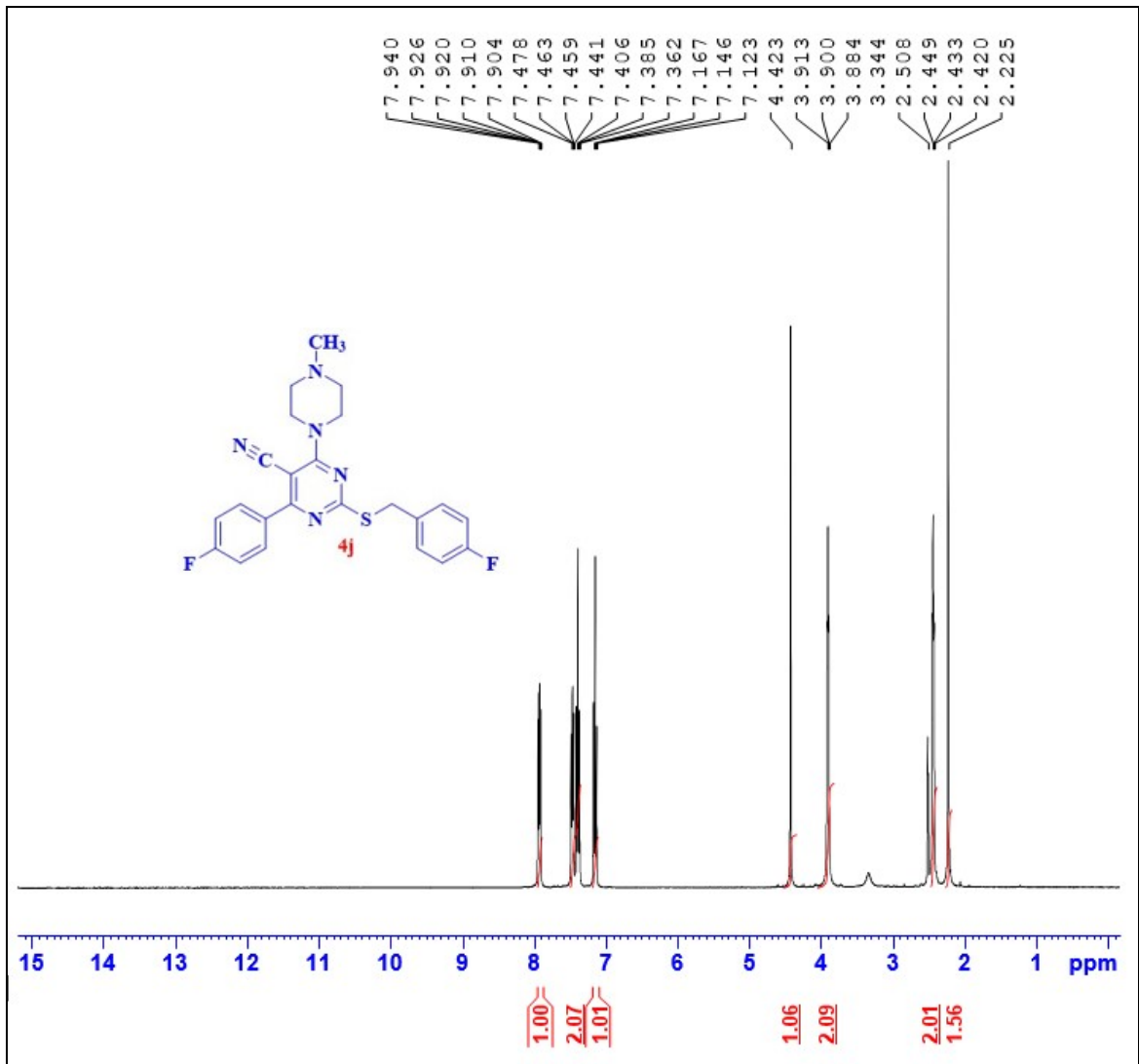


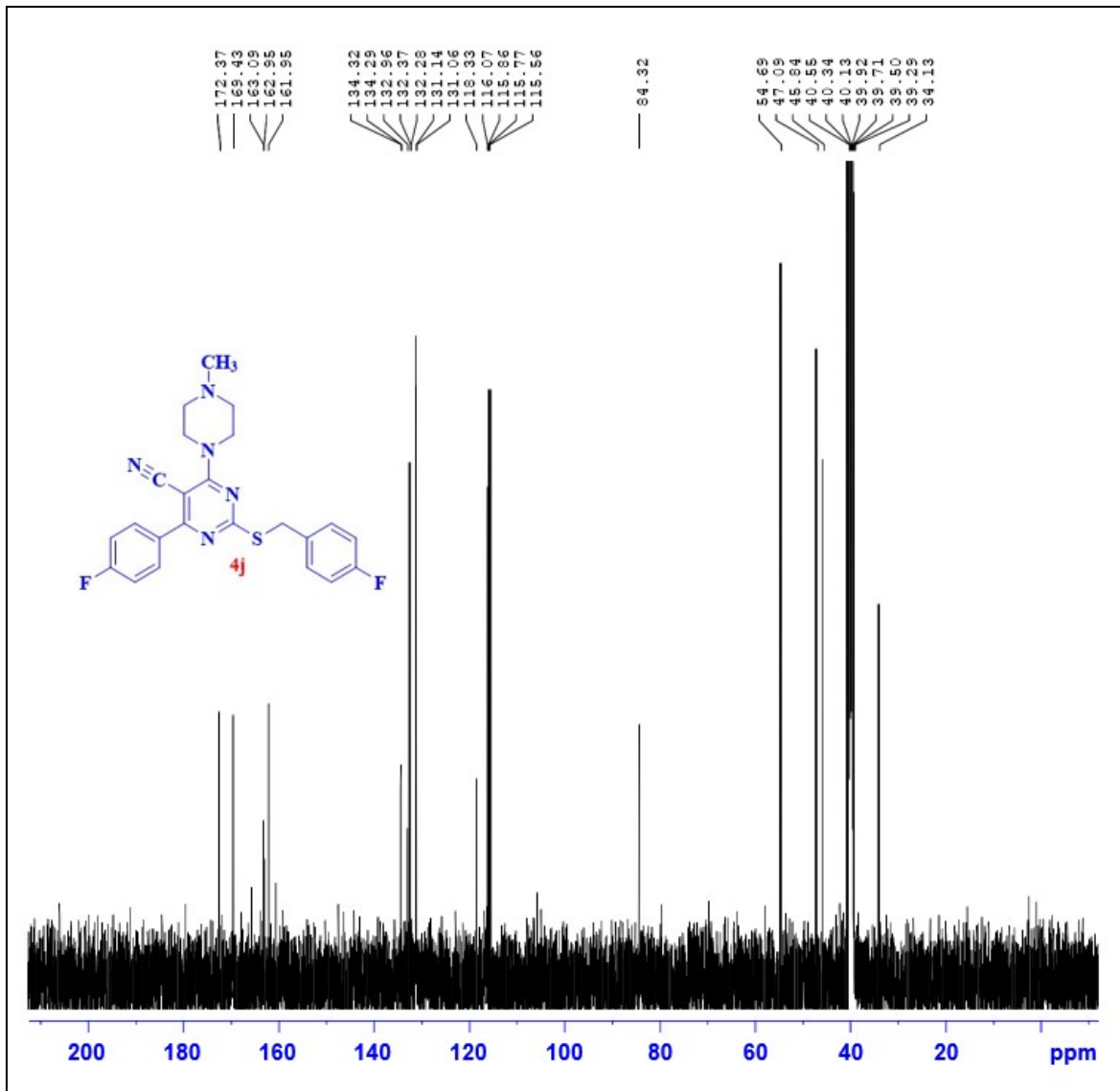


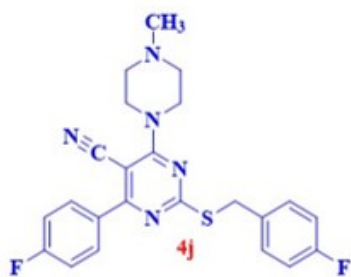






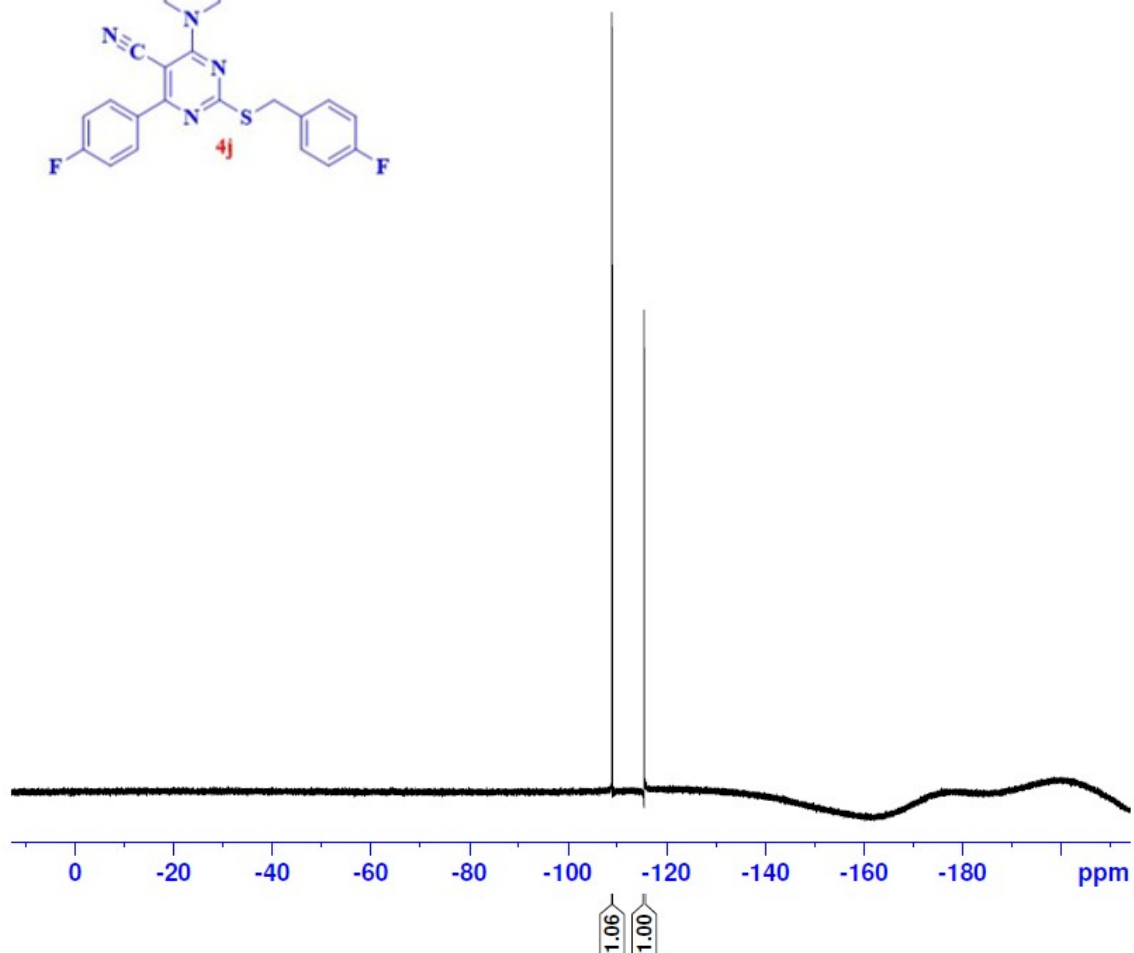


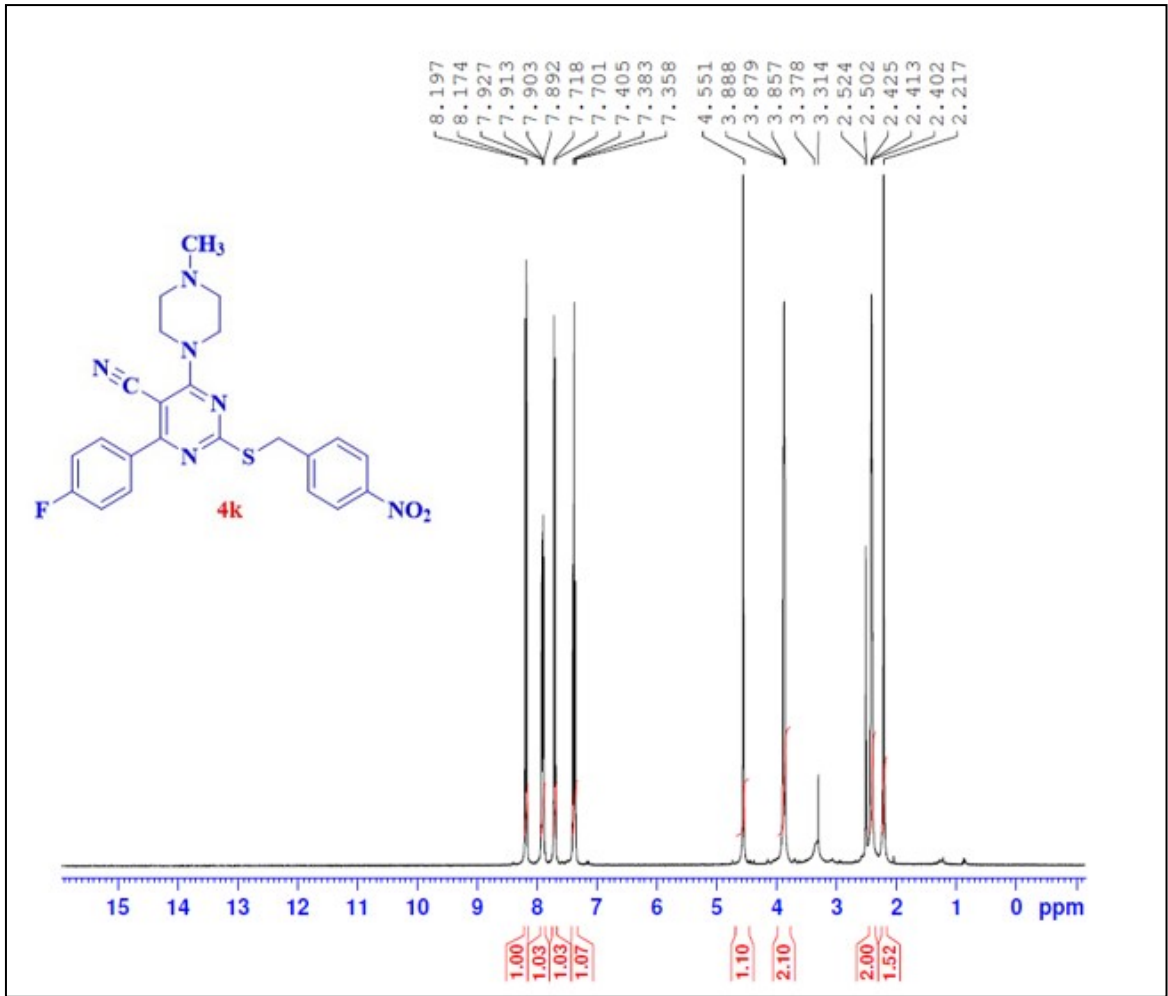


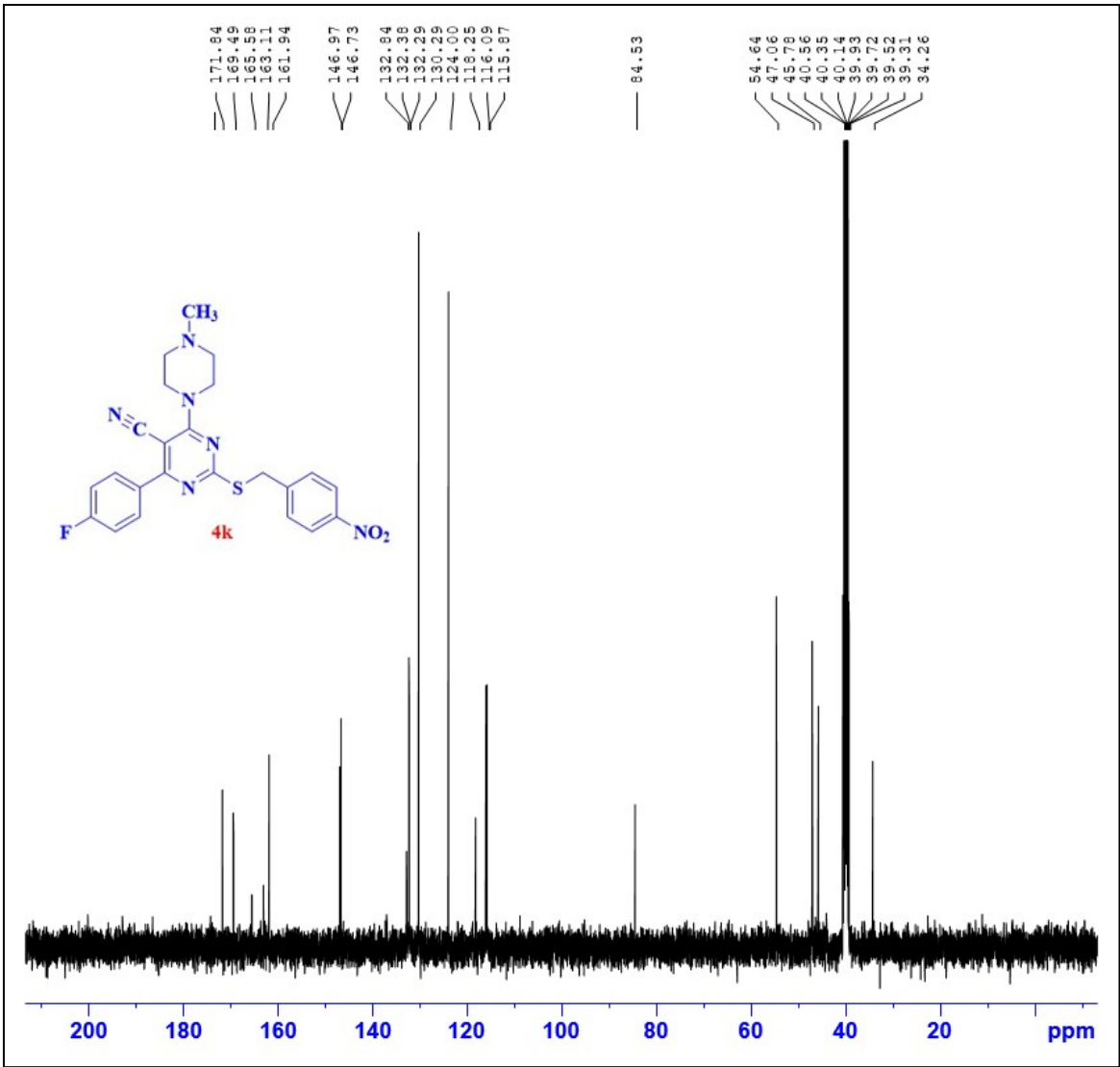


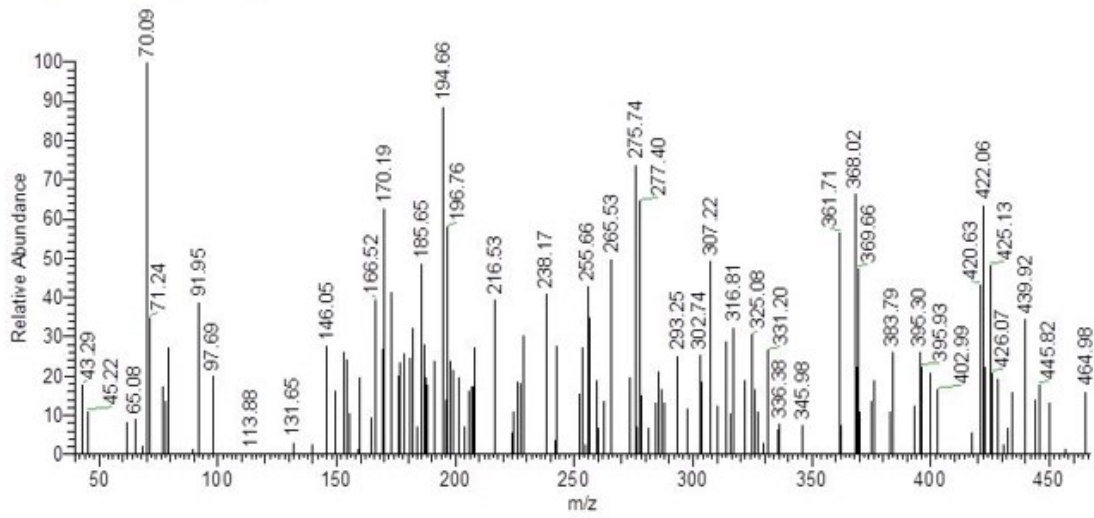
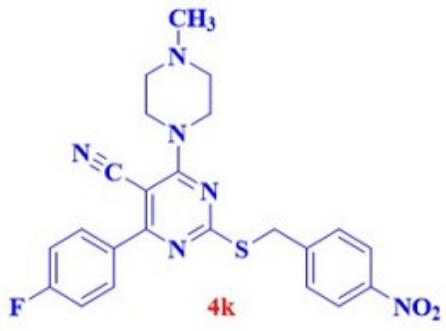
<sup>19</sup>F NMR

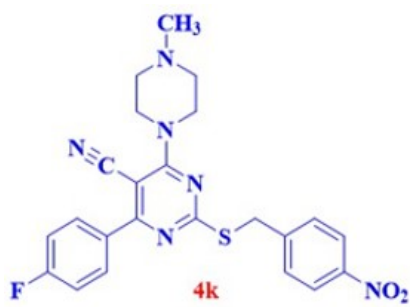
-108.93  
-115.46



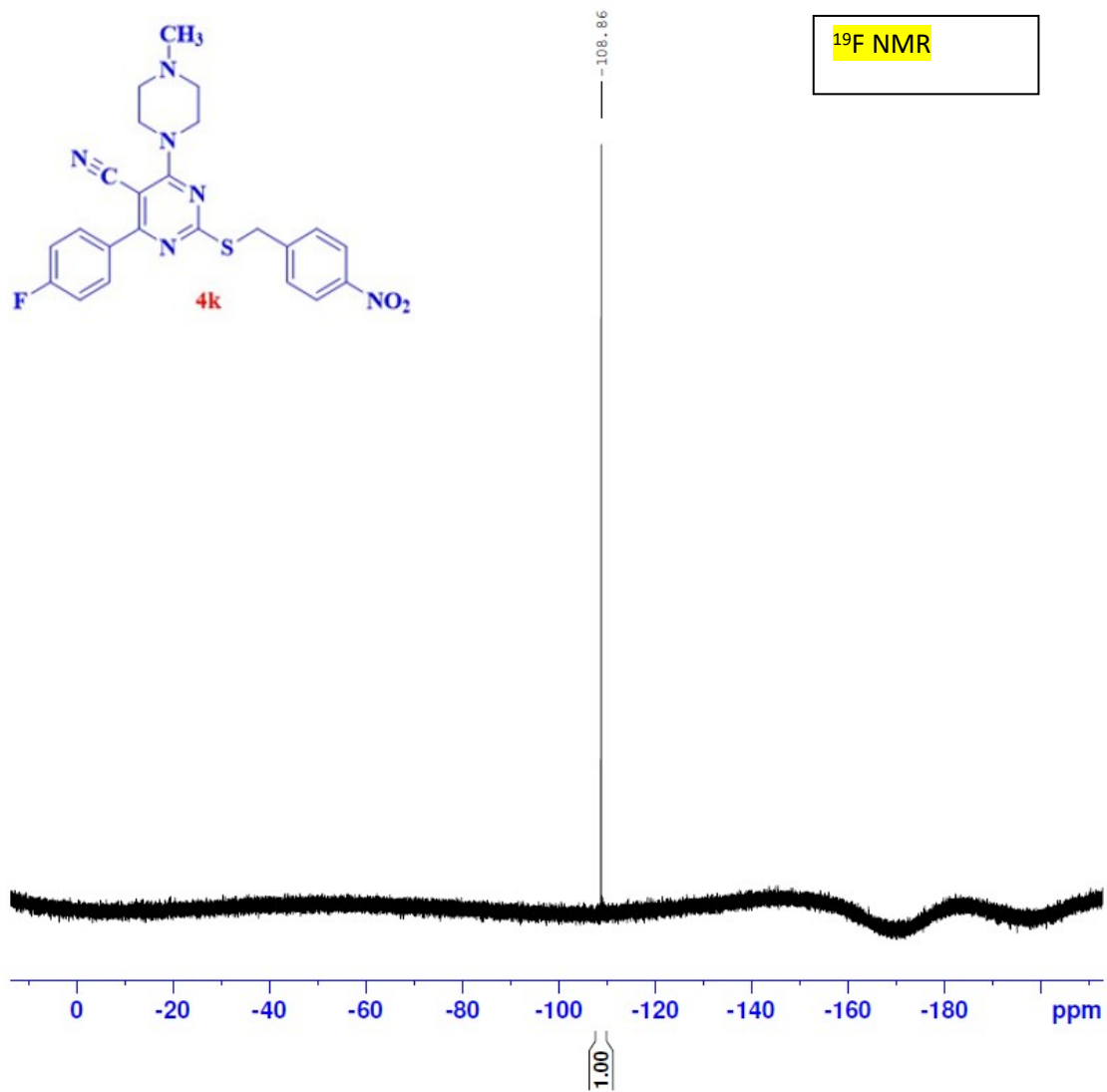


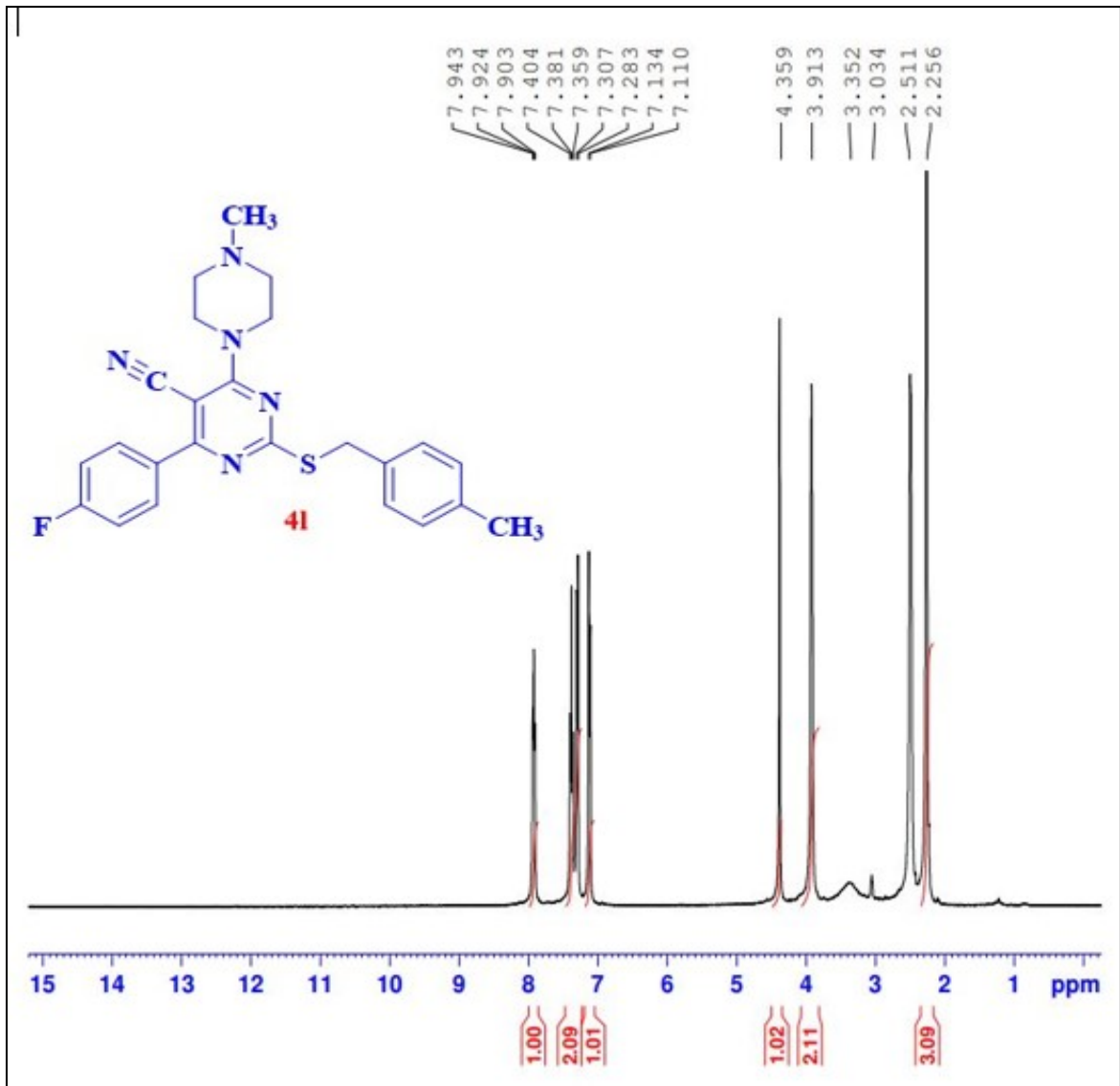




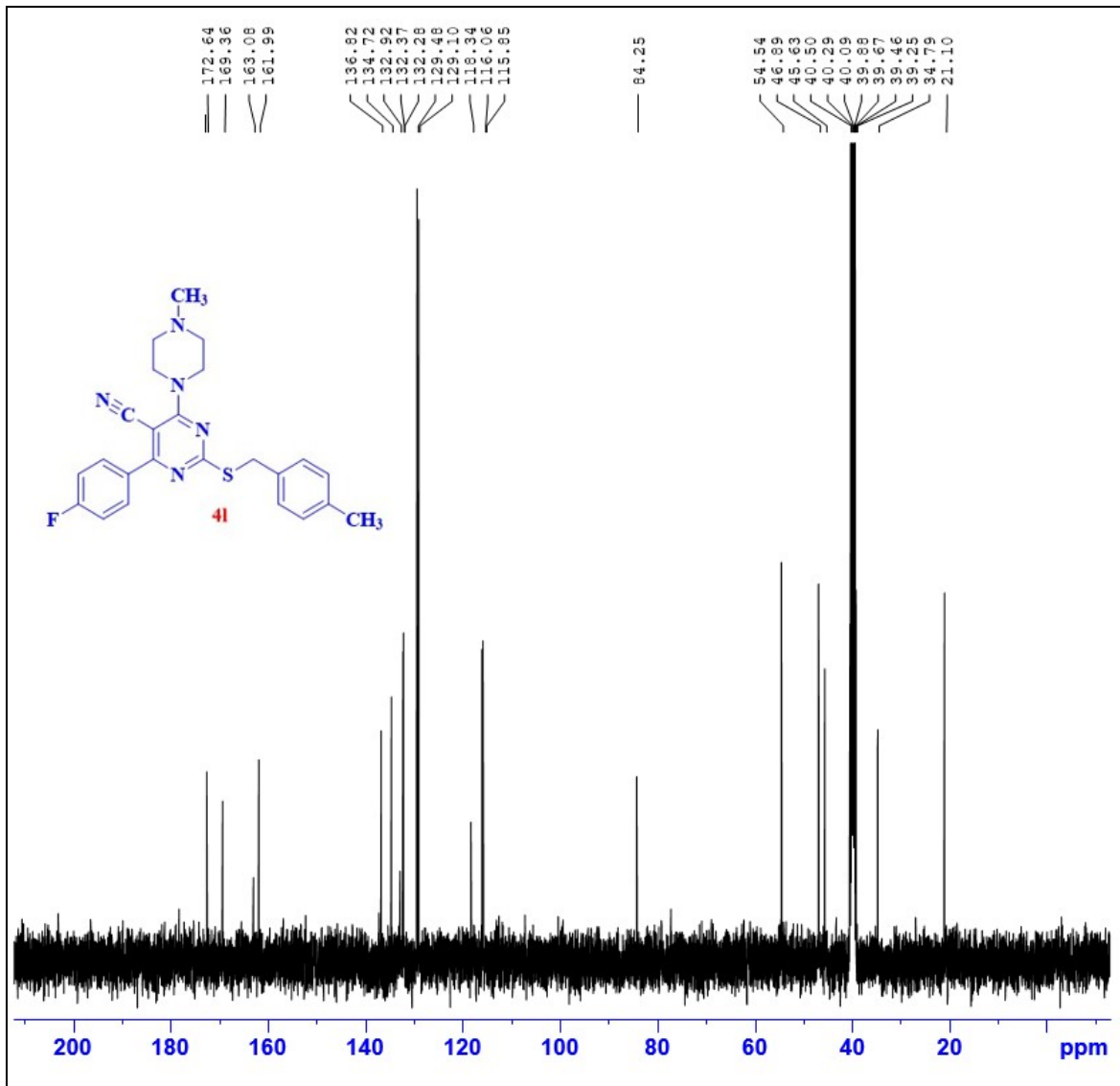


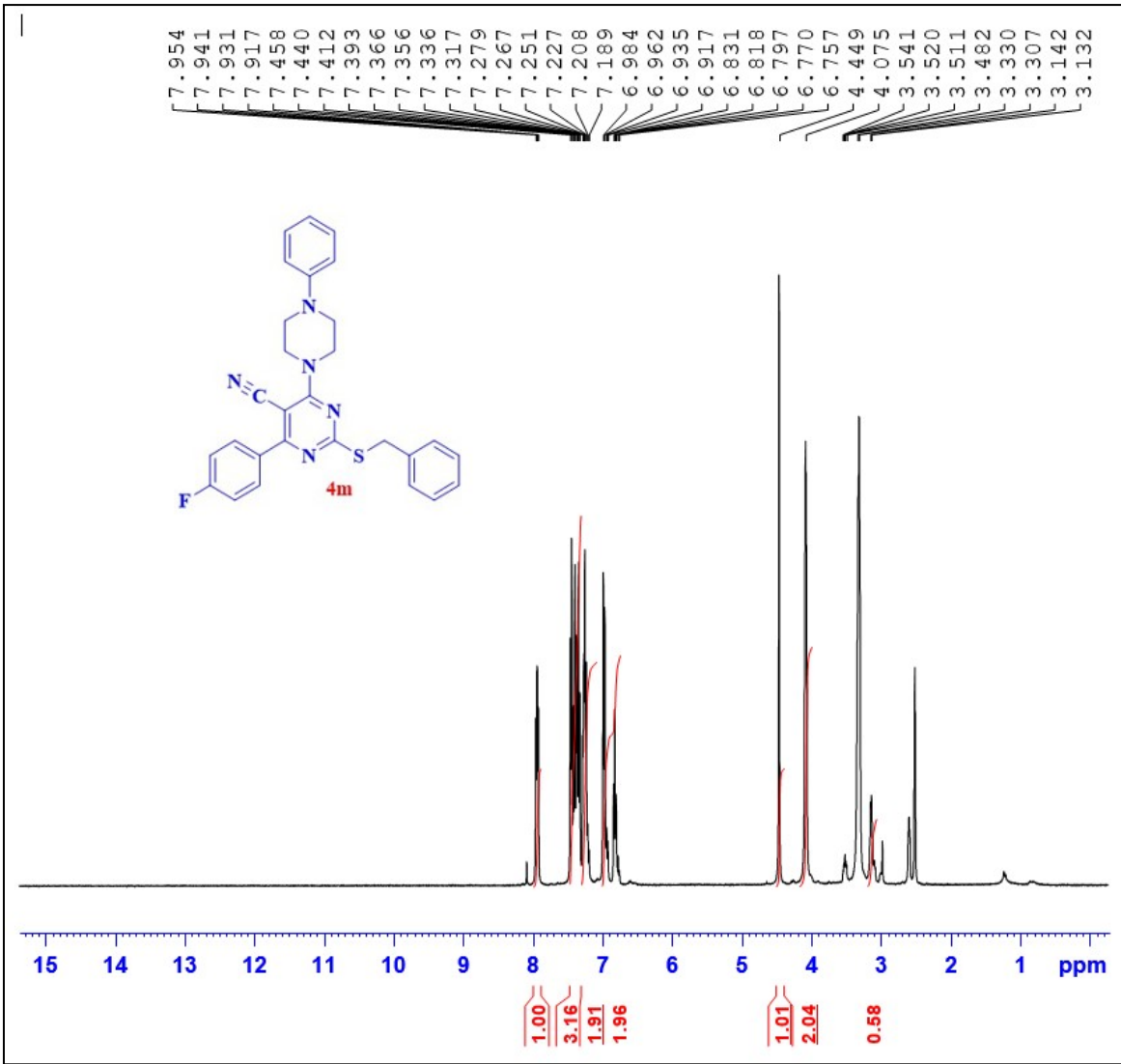
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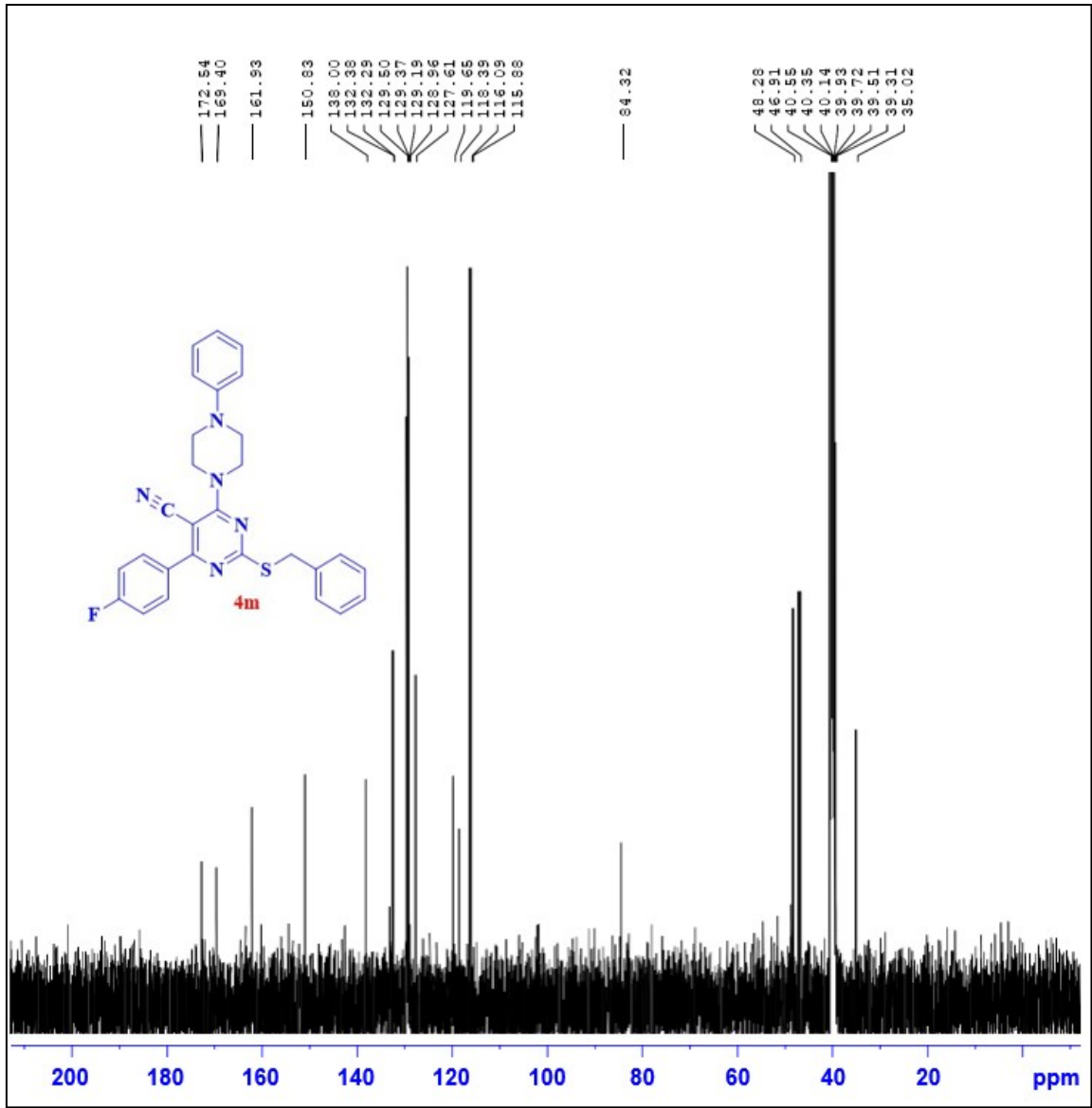


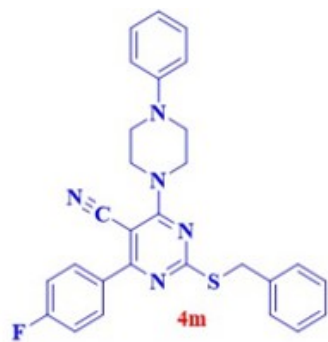




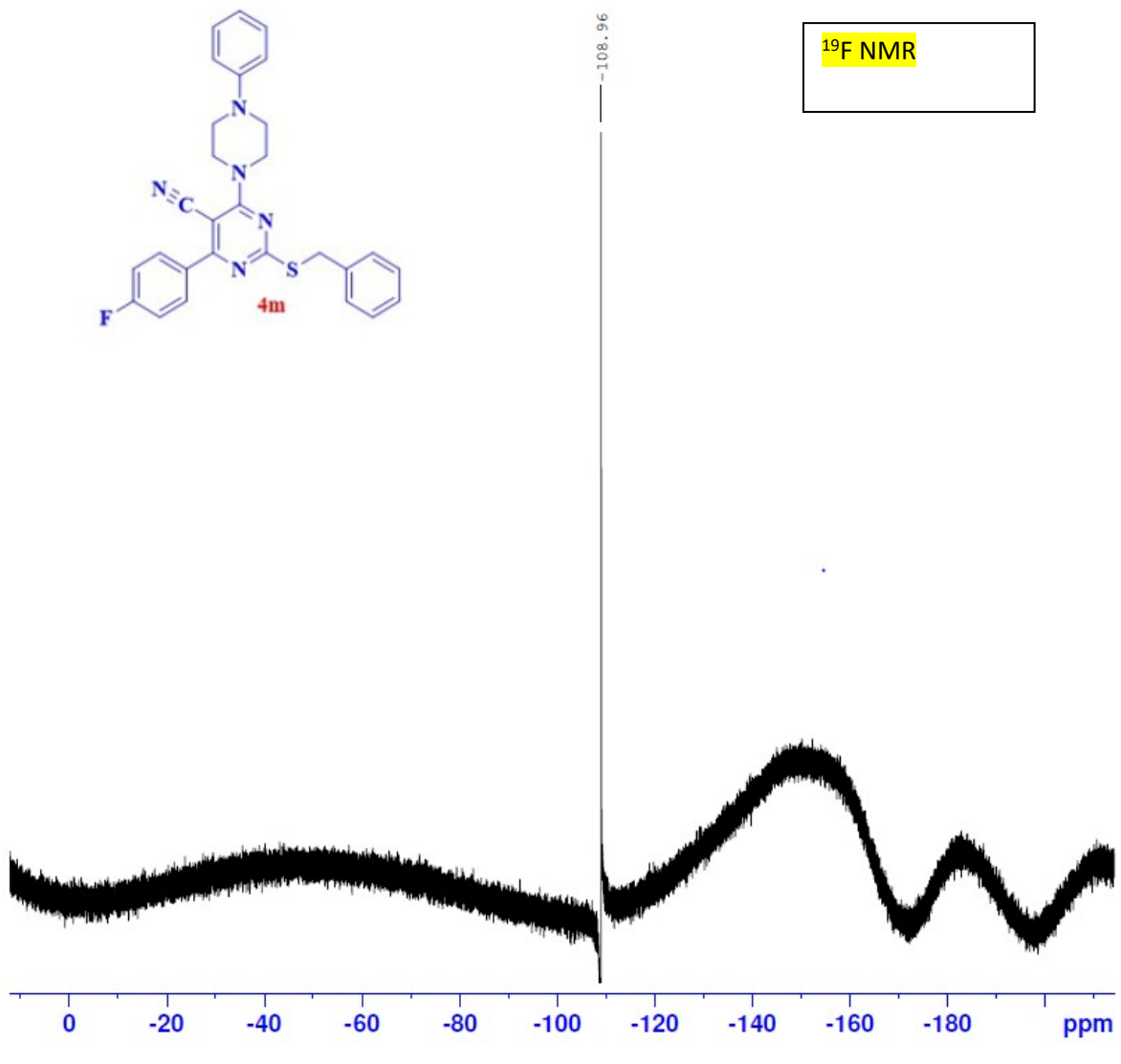


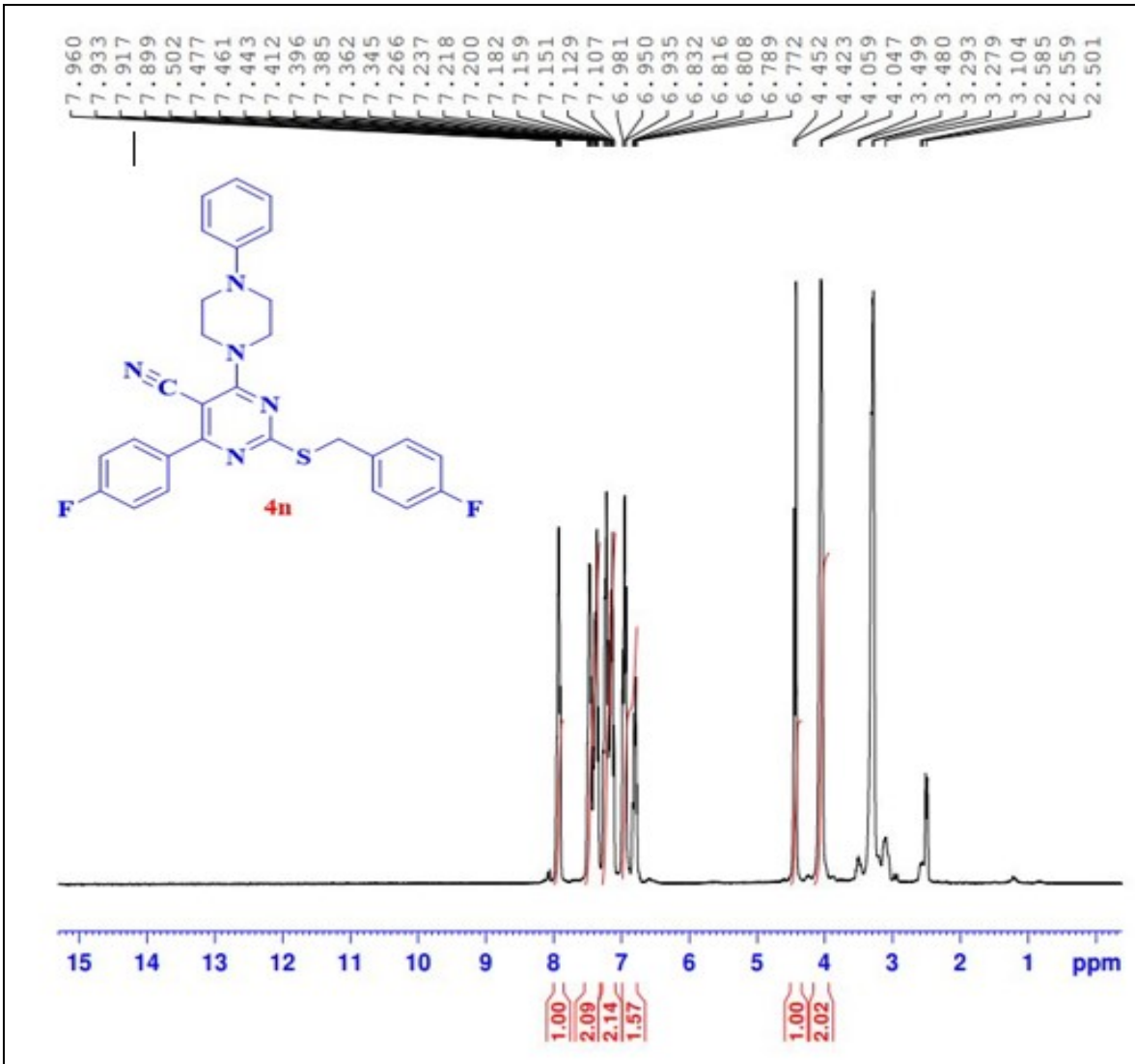


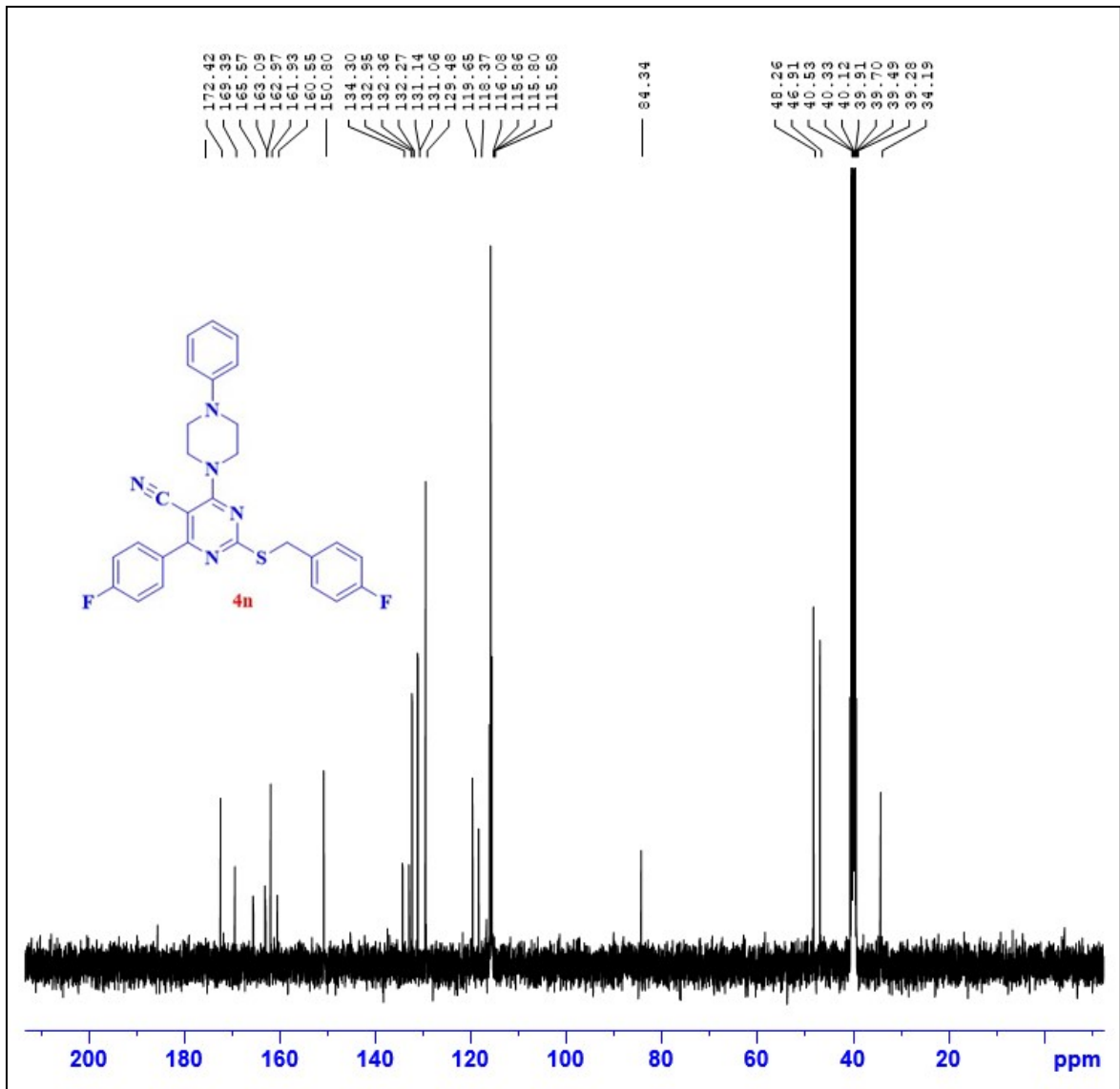


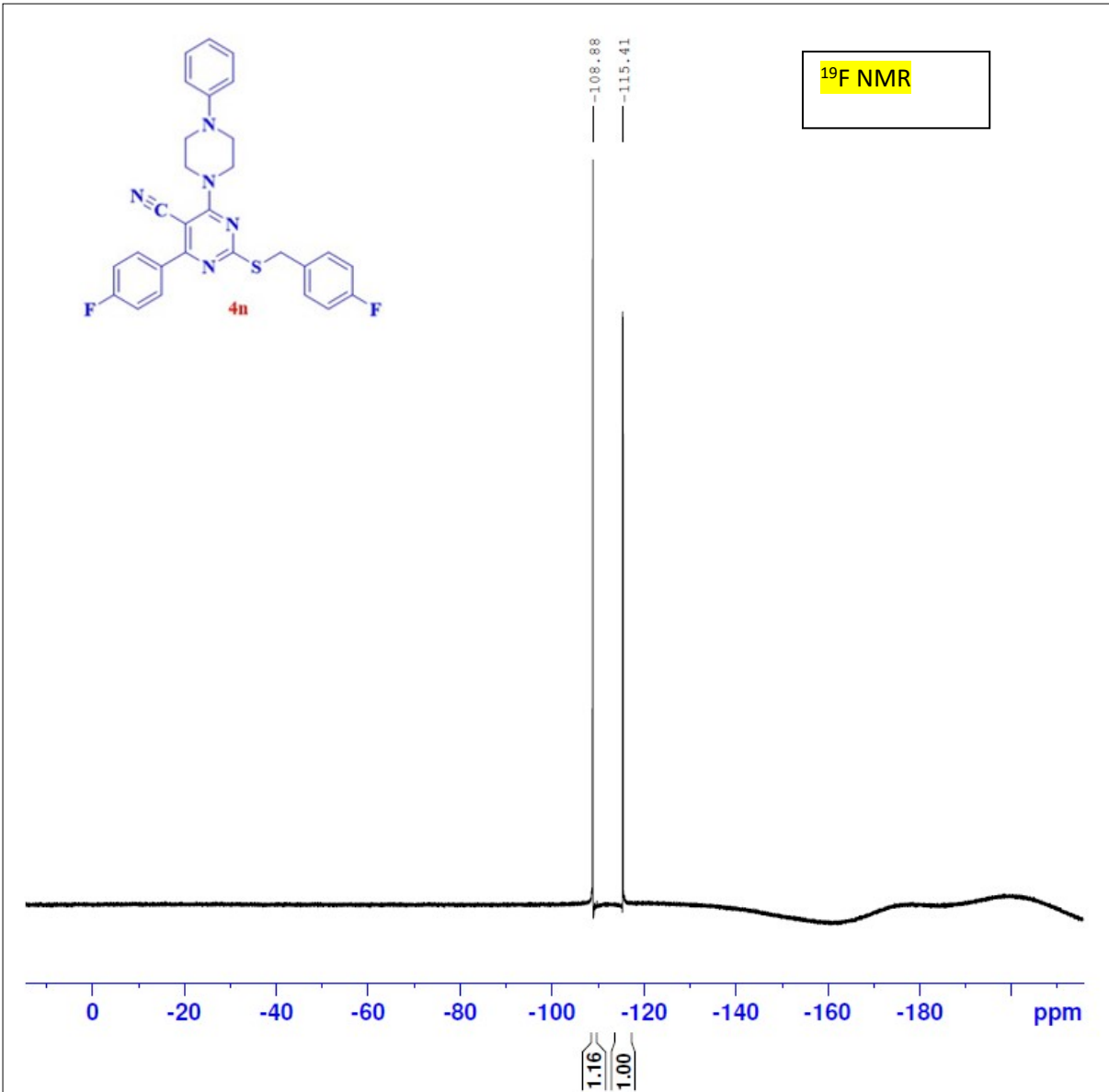


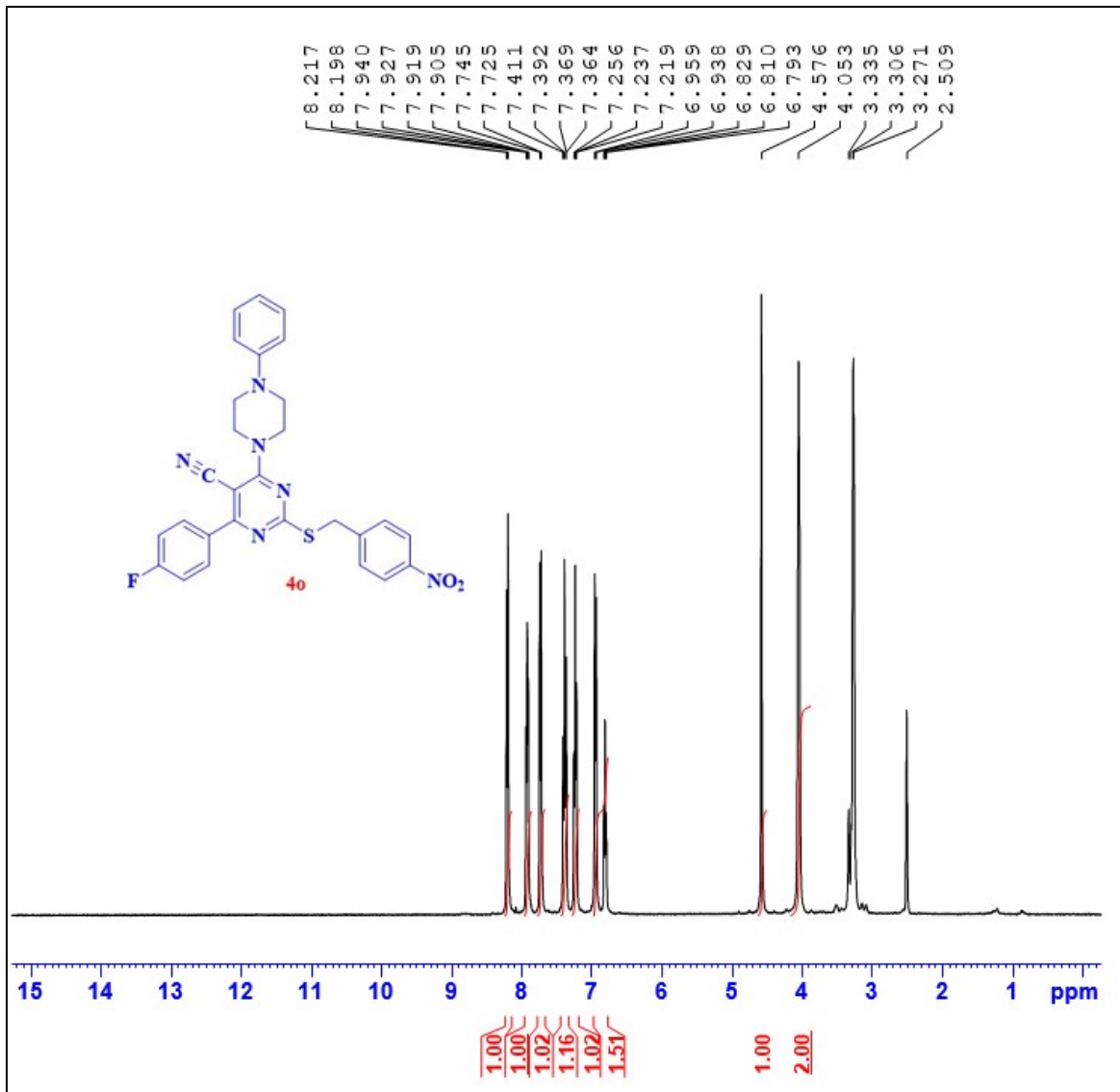
<sup>19</sup>F NMR



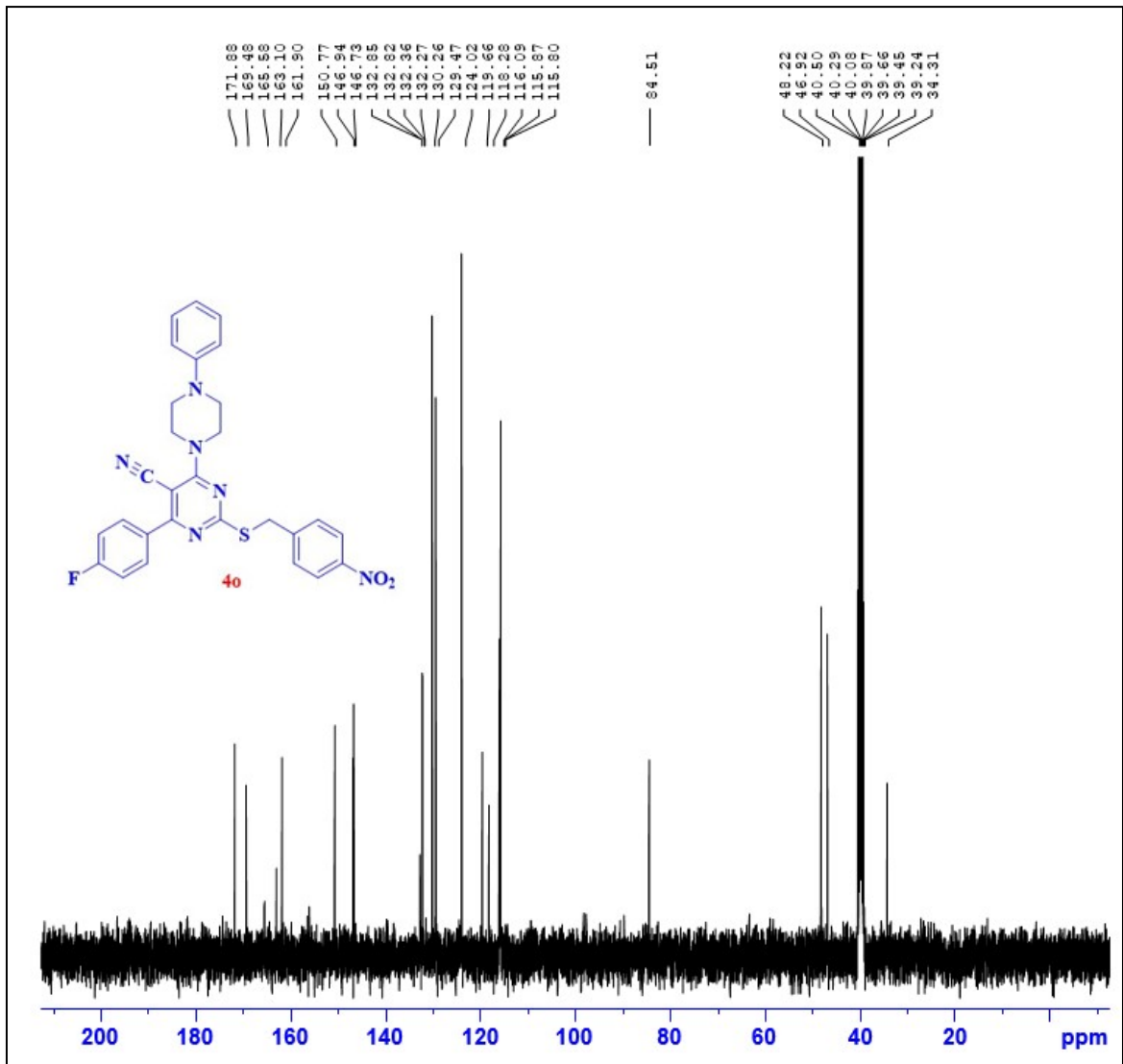


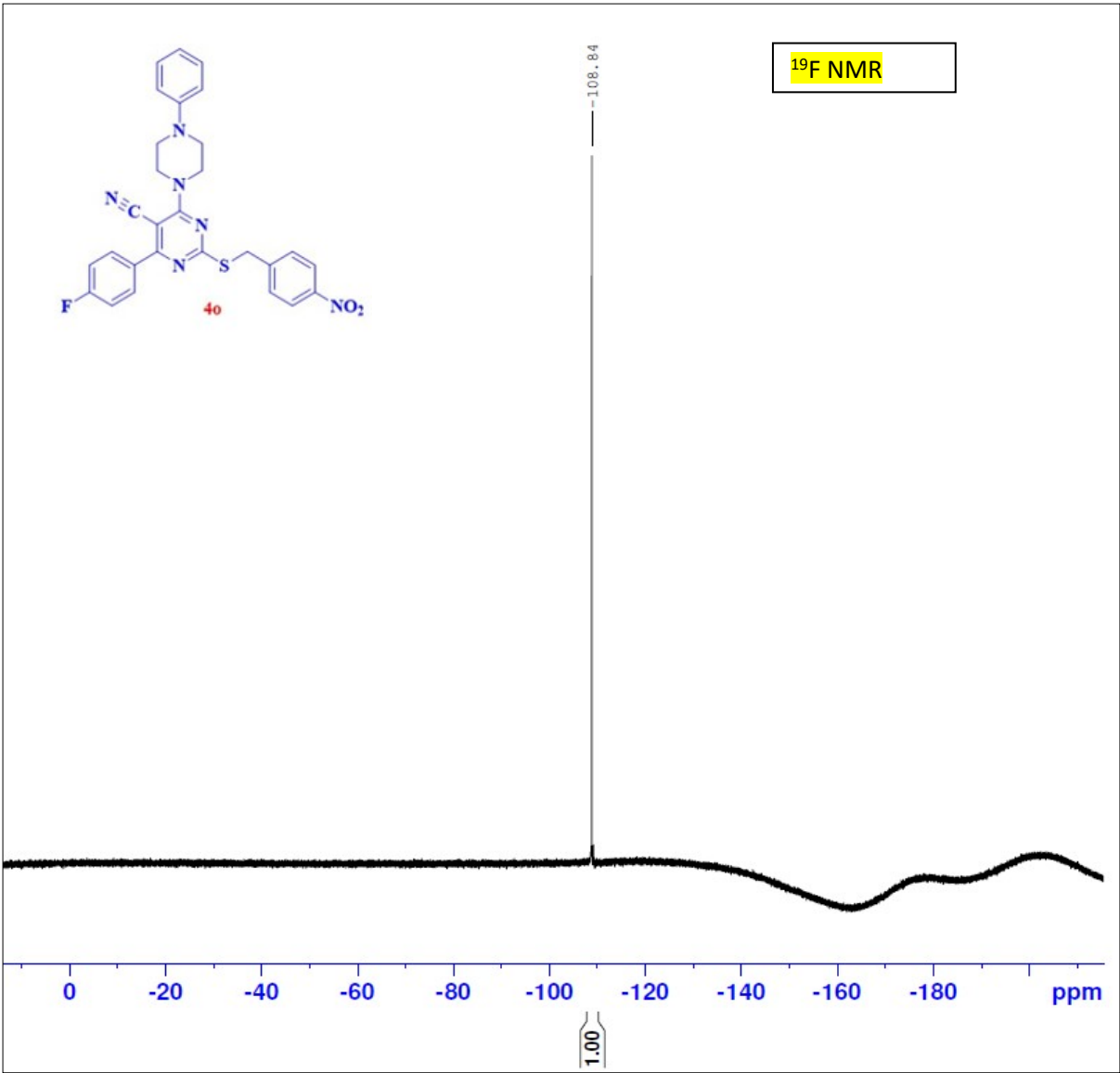


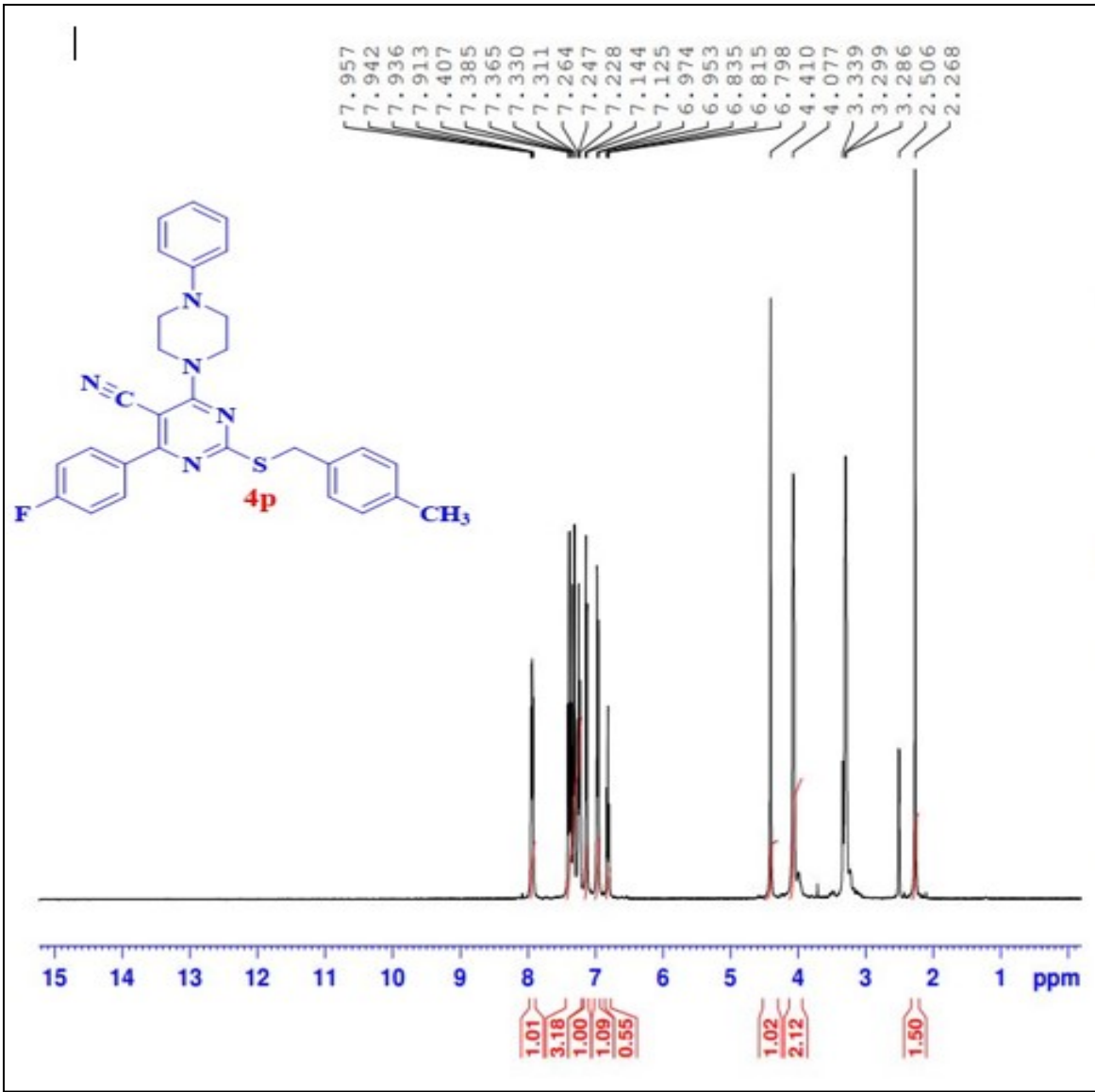


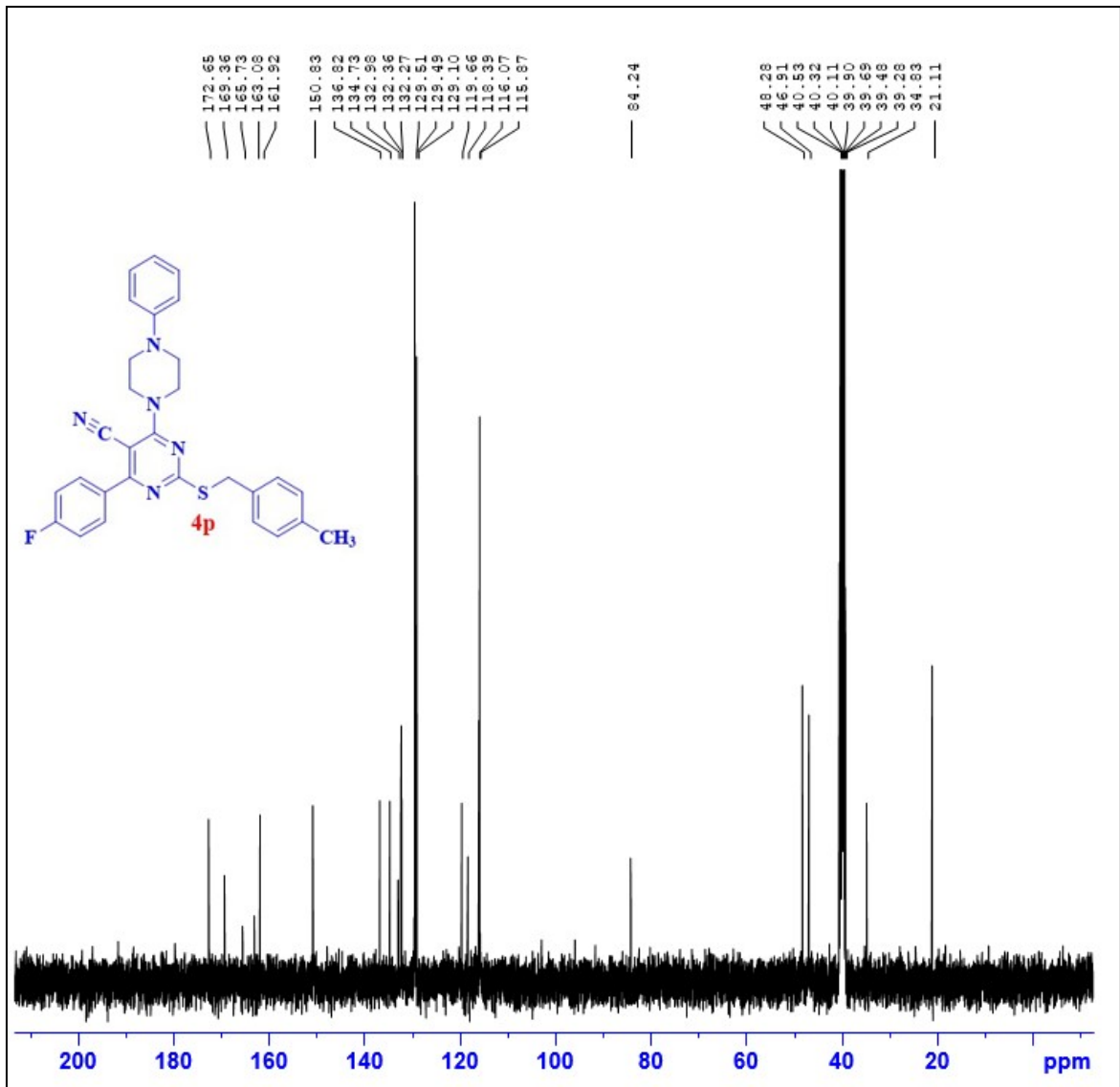


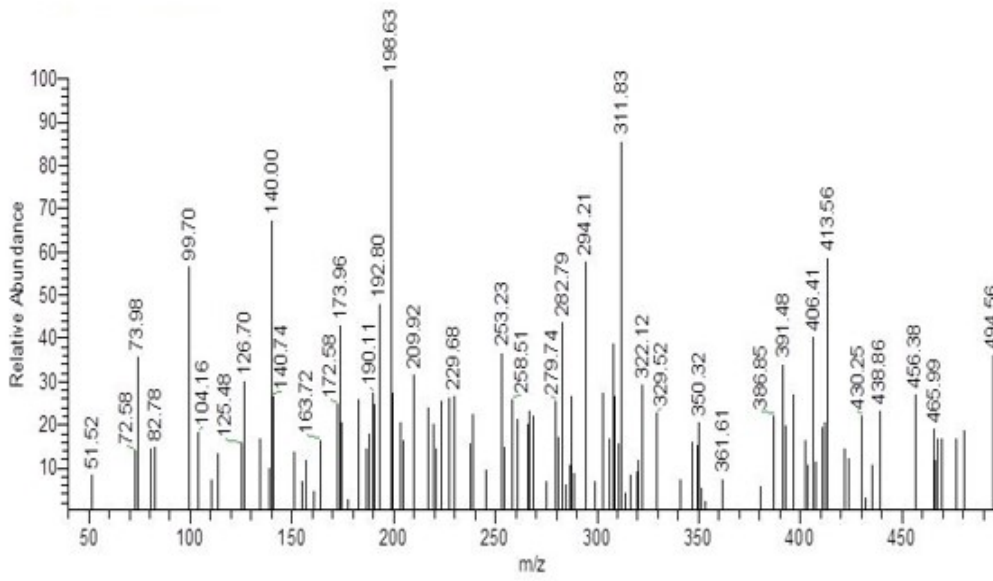
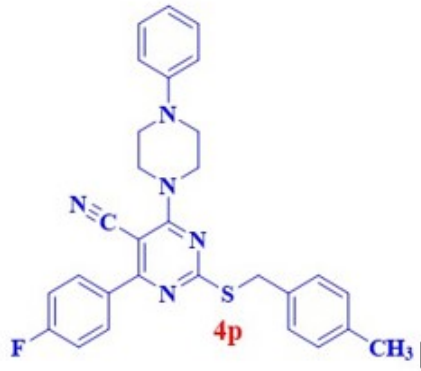


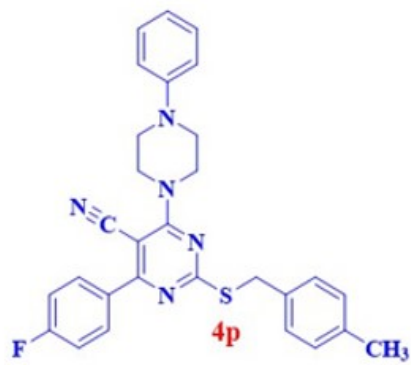












<sup>19</sup>F NMR

