

## Supplementary Material

### Synthesis, characterization and biological activity of some new dihydroisoquinolines and dihydrothieno [2,3-c]isoquinolines

Etify A. Bakhite,<sup>a\*</sup> Omaima F. Ibrahim,<sup>a</sup> Esraa Khamies,<sup>a</sup> Shams H. Abdel-Hafez,<sup>b</sup> Maha Q. M. Qahtan<sup>c</sup> and Islam S. Marae<sup>a</sup>

<sup>a</sup>Chemistry Department, Faculty of science, Assiut University, Assiut 71516, Egypt

<sup>b</sup>Department of Chemistry, College of Science, Taif University, Taif 21944, Saudi Arabia.

<sup>c</sup>Department of Chemistry, Faculty of Science, Taiz University, Taiz, Yemen.

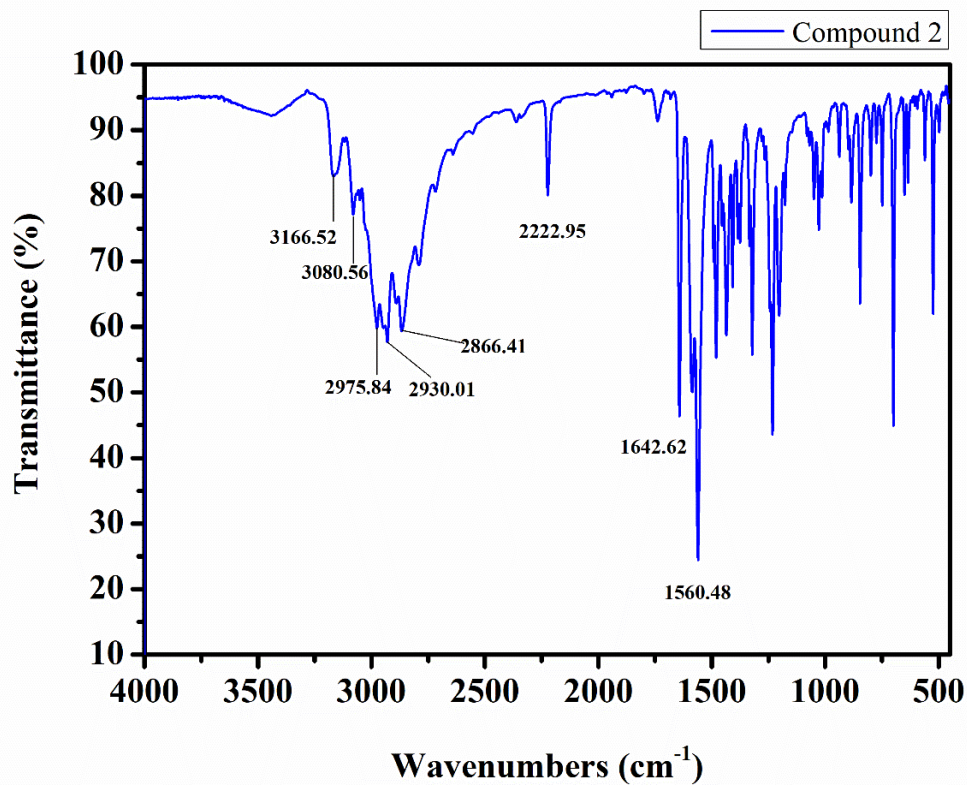
Email: [etafy@aun.edu.eg](mailto:etafy@aun.edu.eg)

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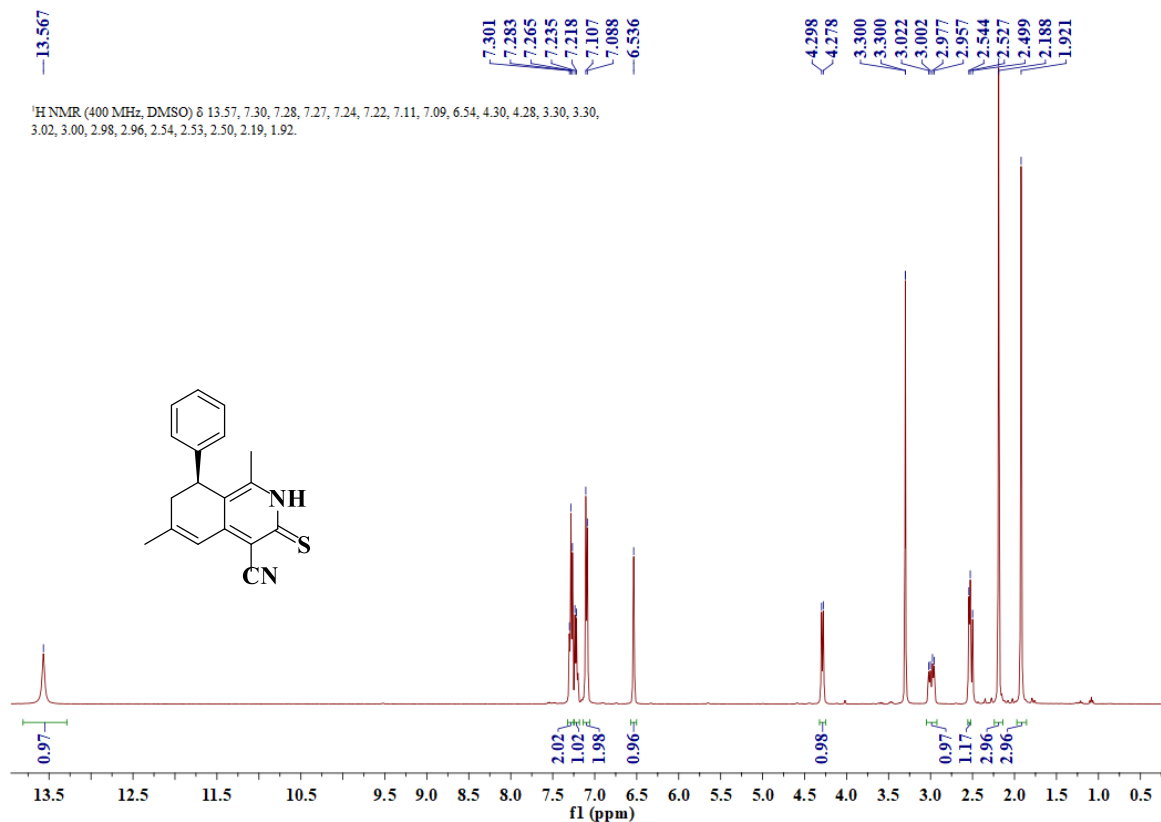
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| IR and <sup>1</sup> H NMR spectra of synthesized compounds ..... | S2 |
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Figure S1: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound **3**.

[a]

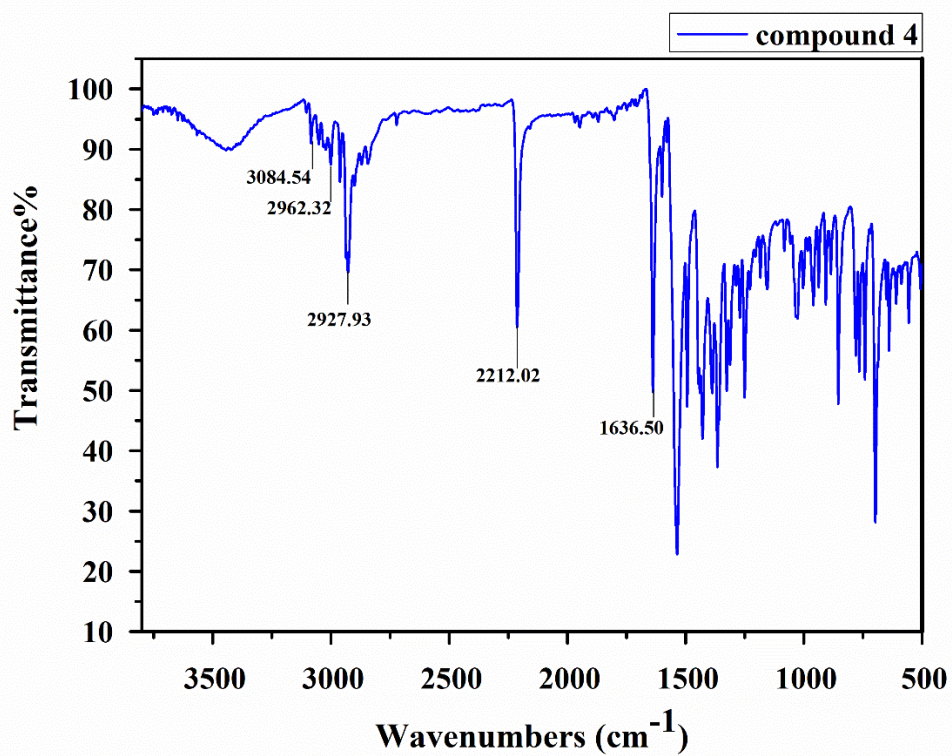


[b]



**Figure S2:** [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 4.

[a]



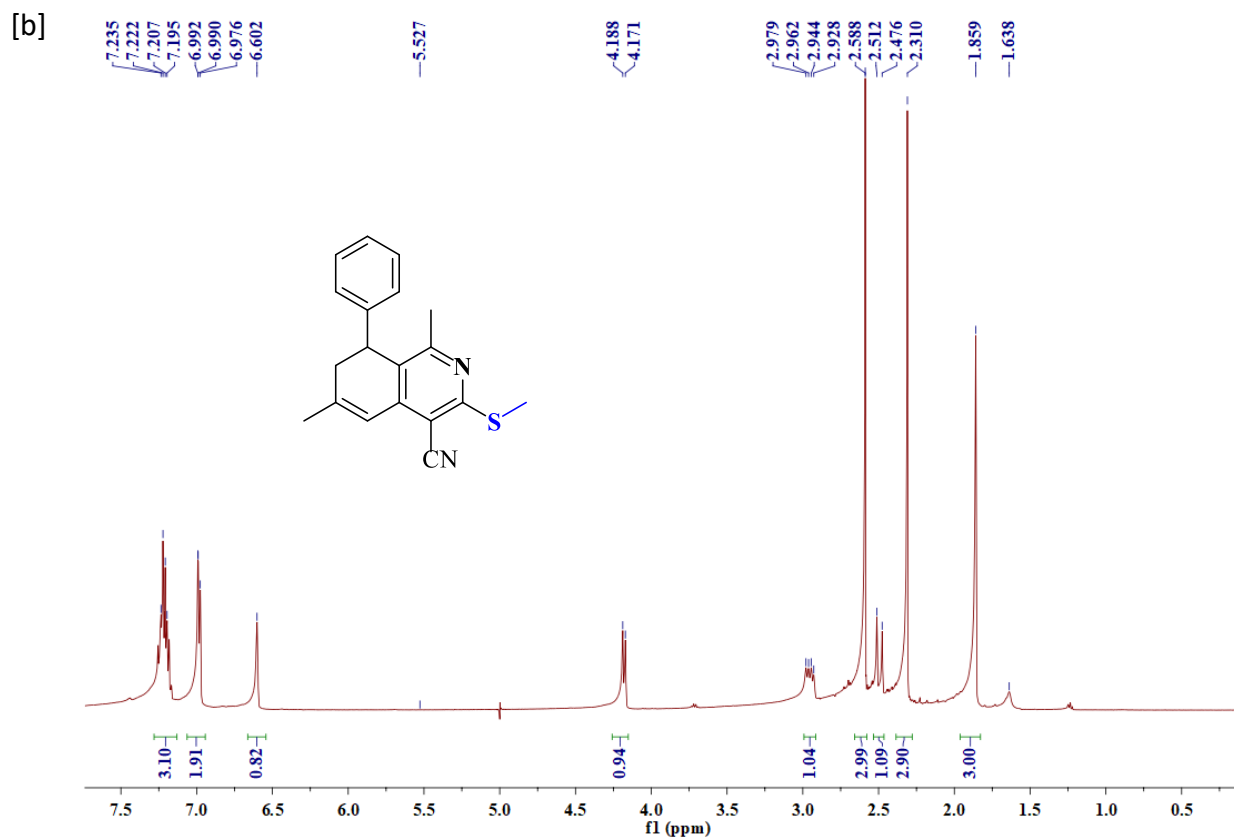
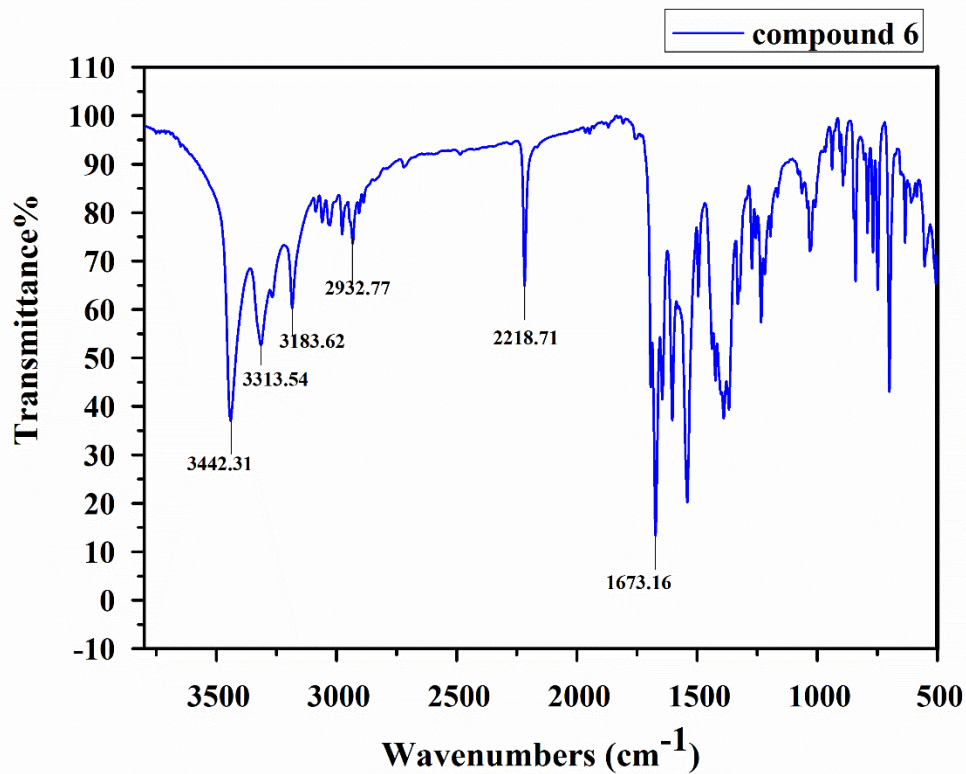


Figure S3: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 6.

[a]



[b]

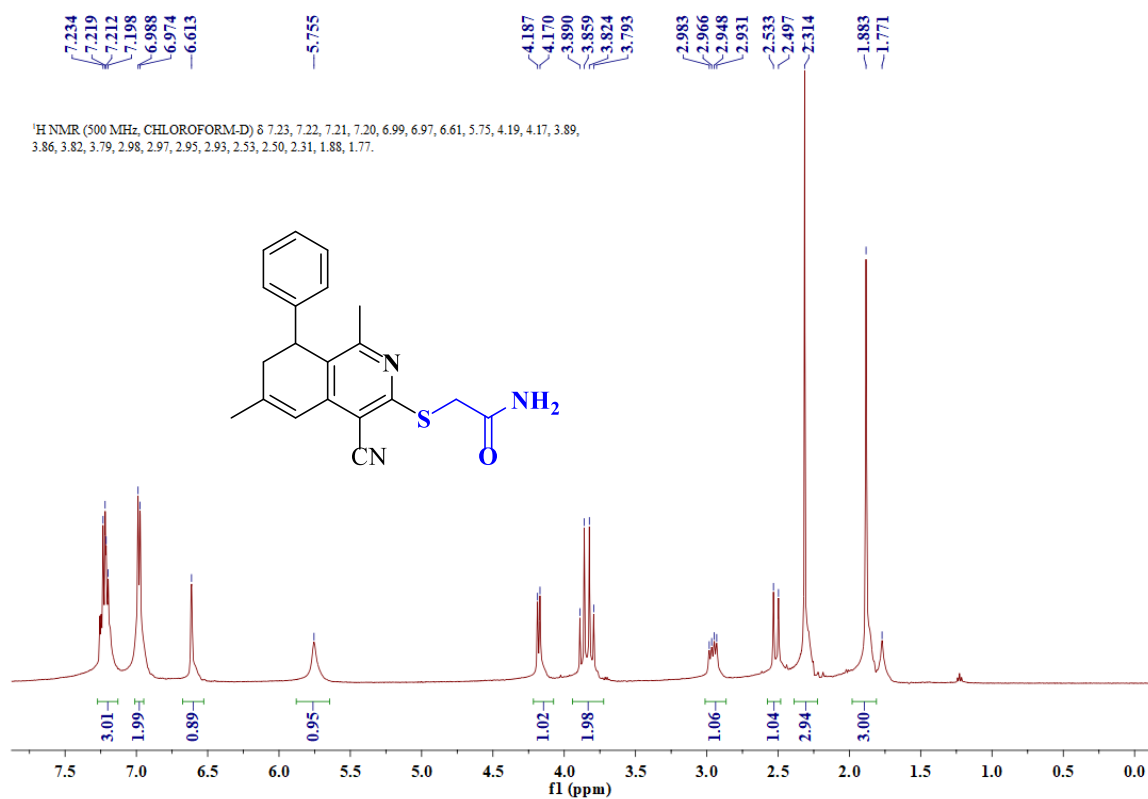
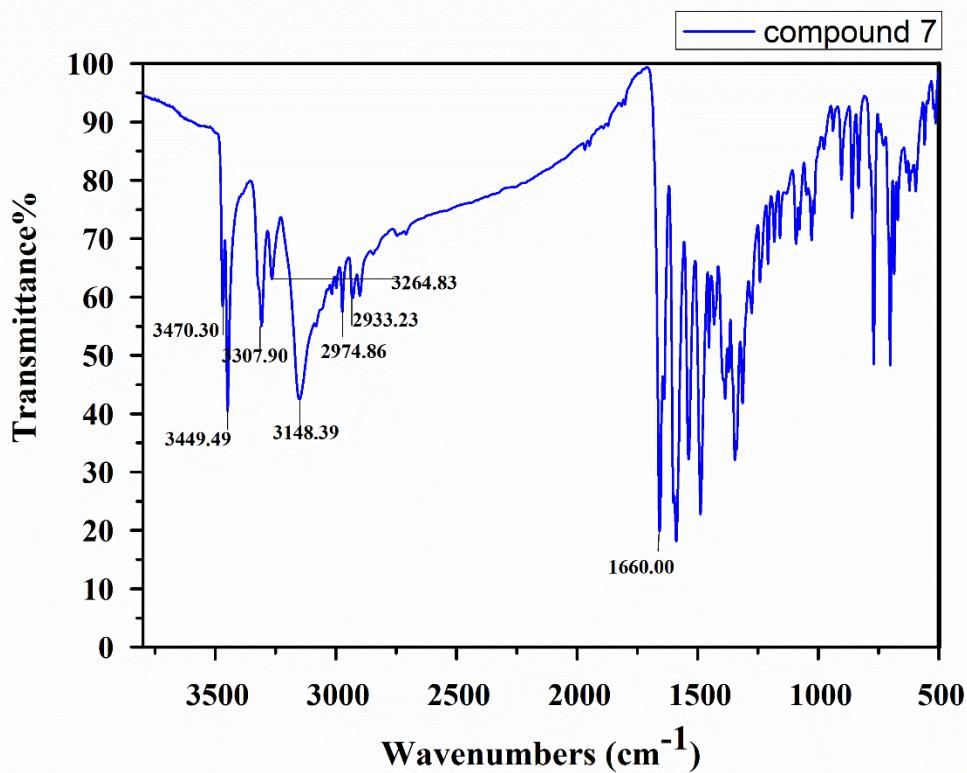


Figure S4: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 7.

[a]



[b]

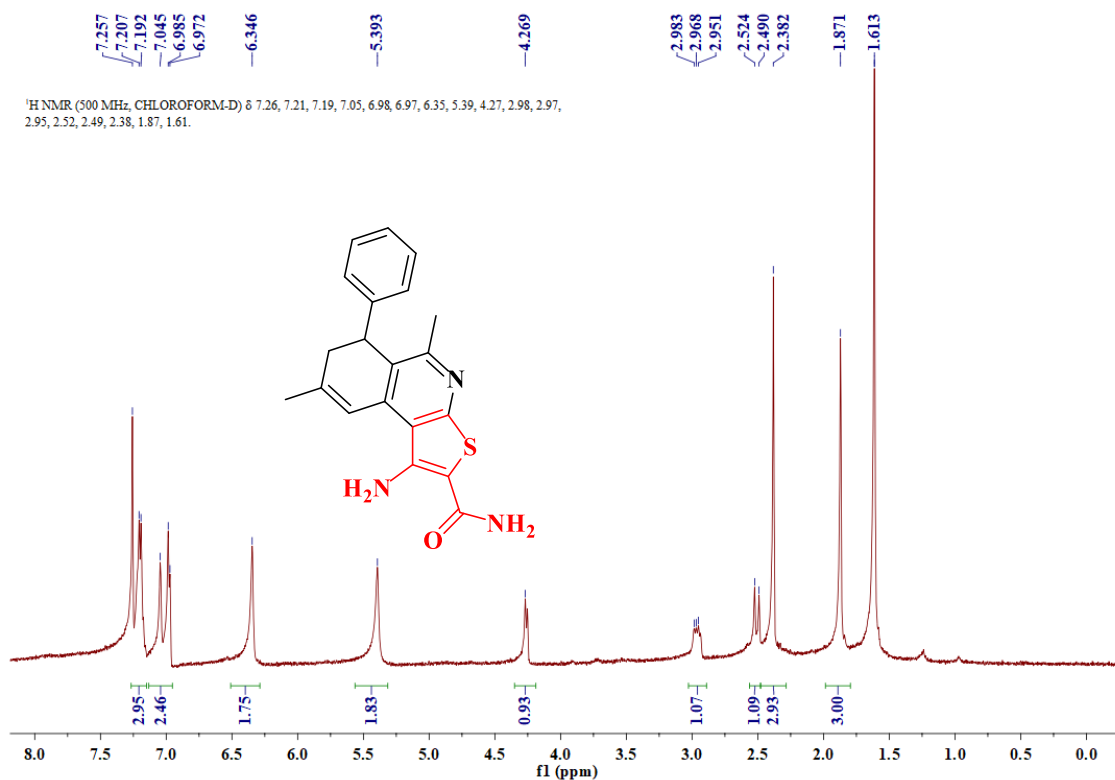
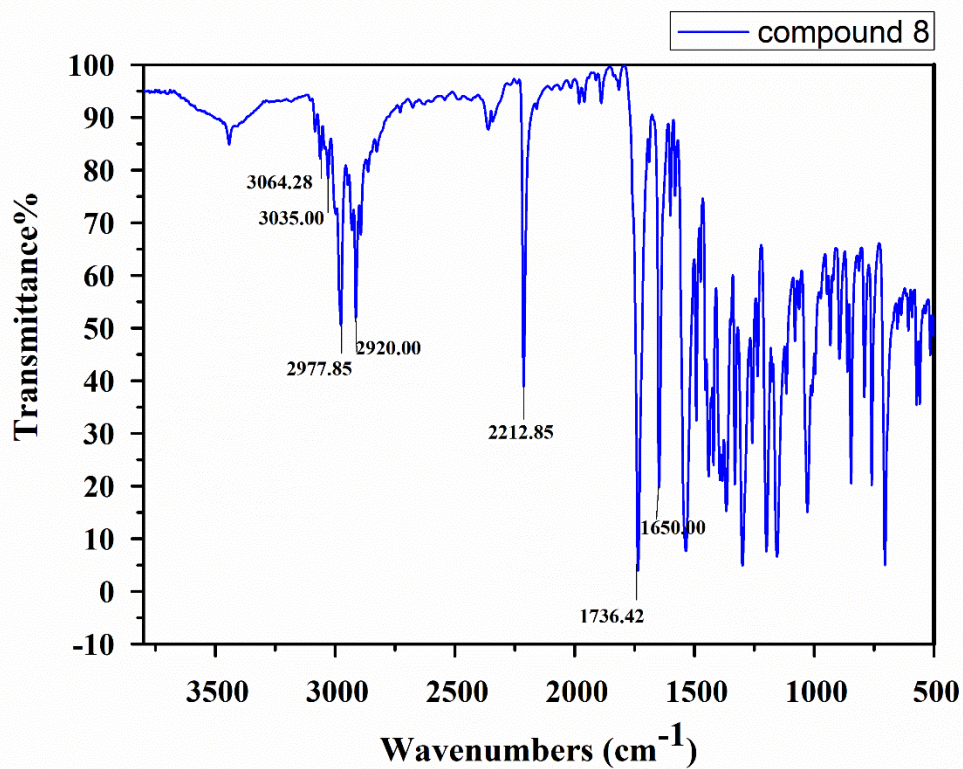




Figure S5: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 8.

[a]



[b]

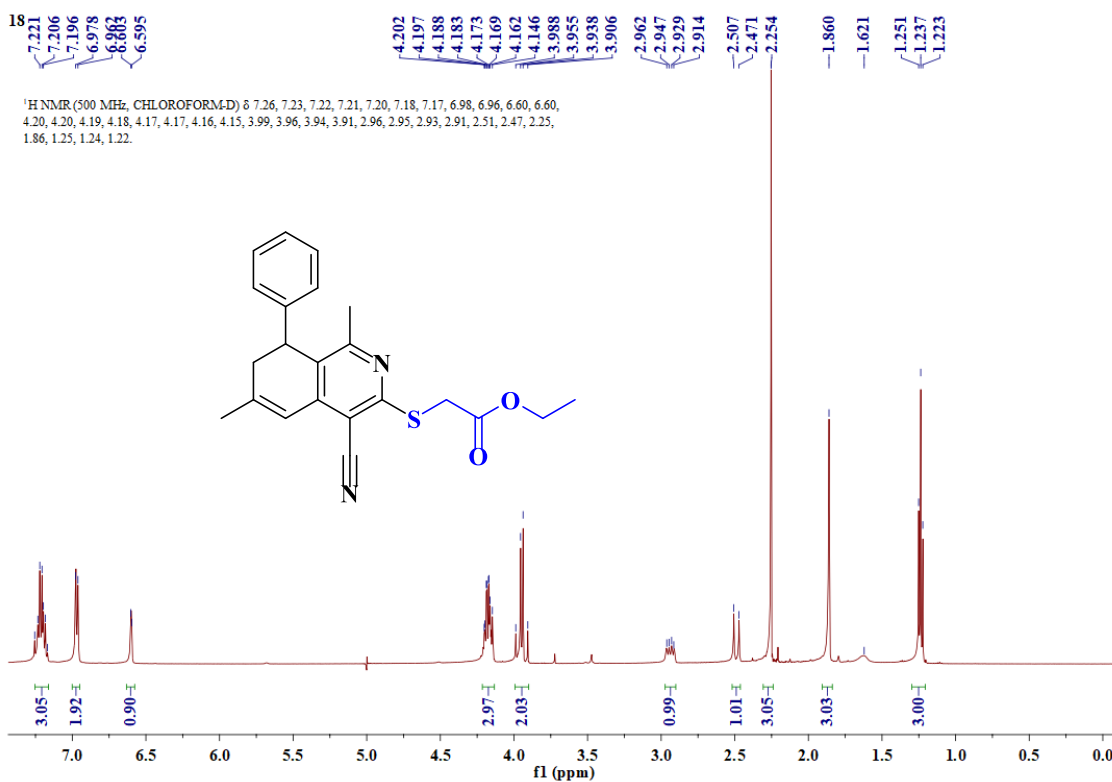
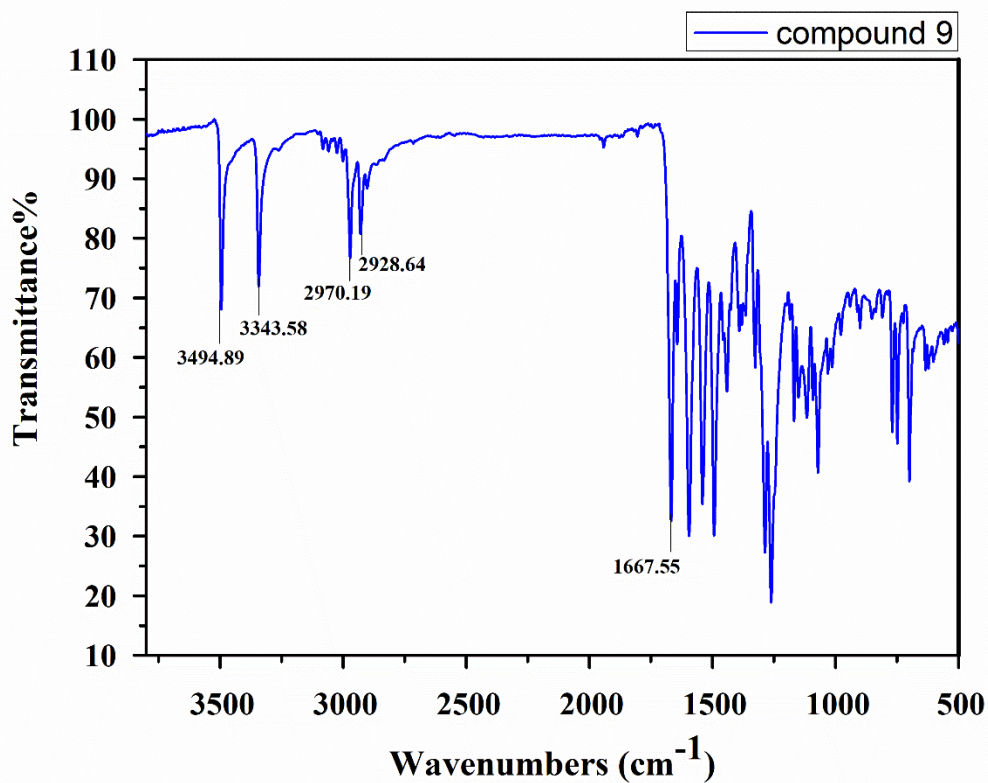


Figure S6: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 9.

[a]



[b]

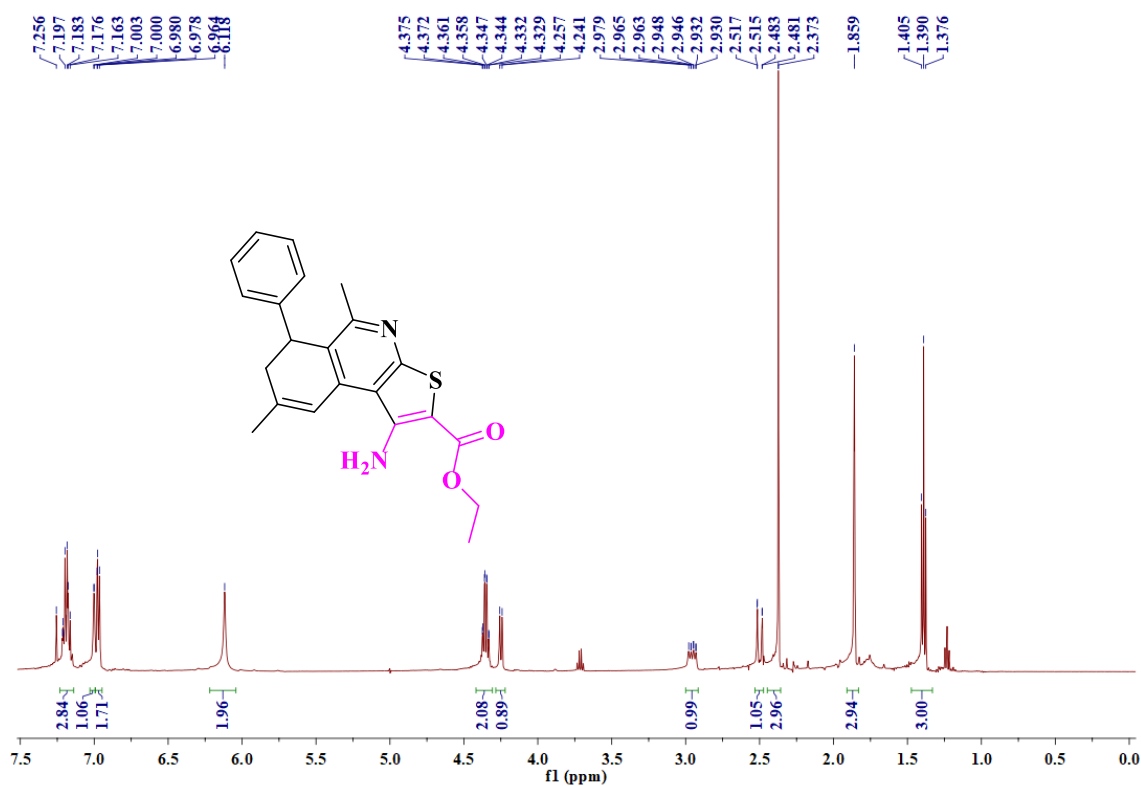




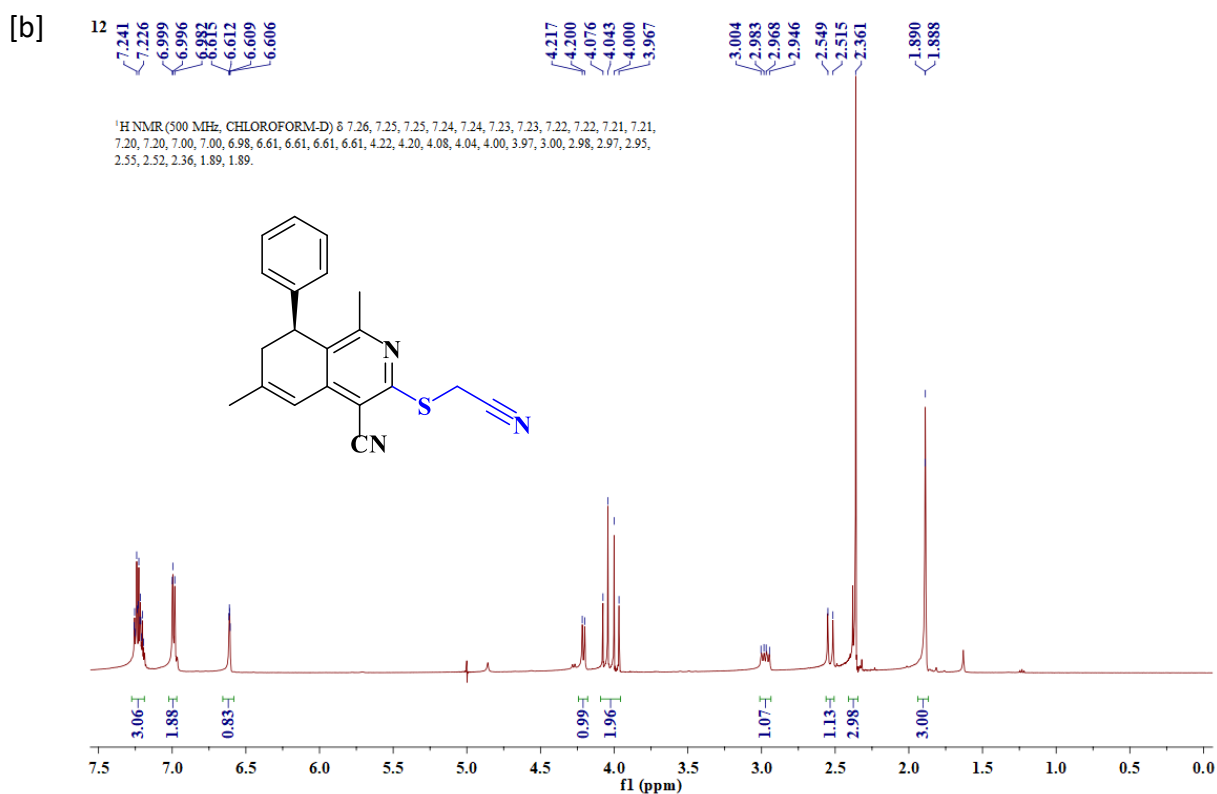
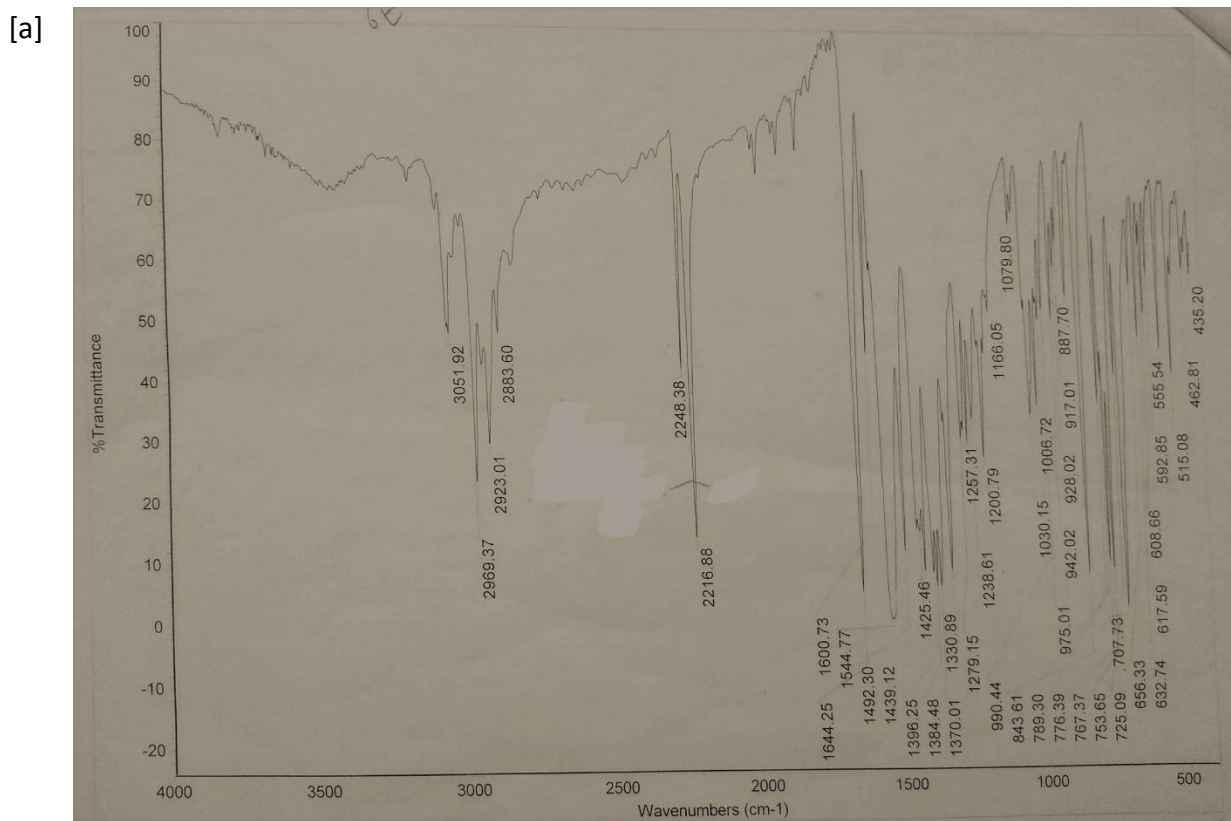
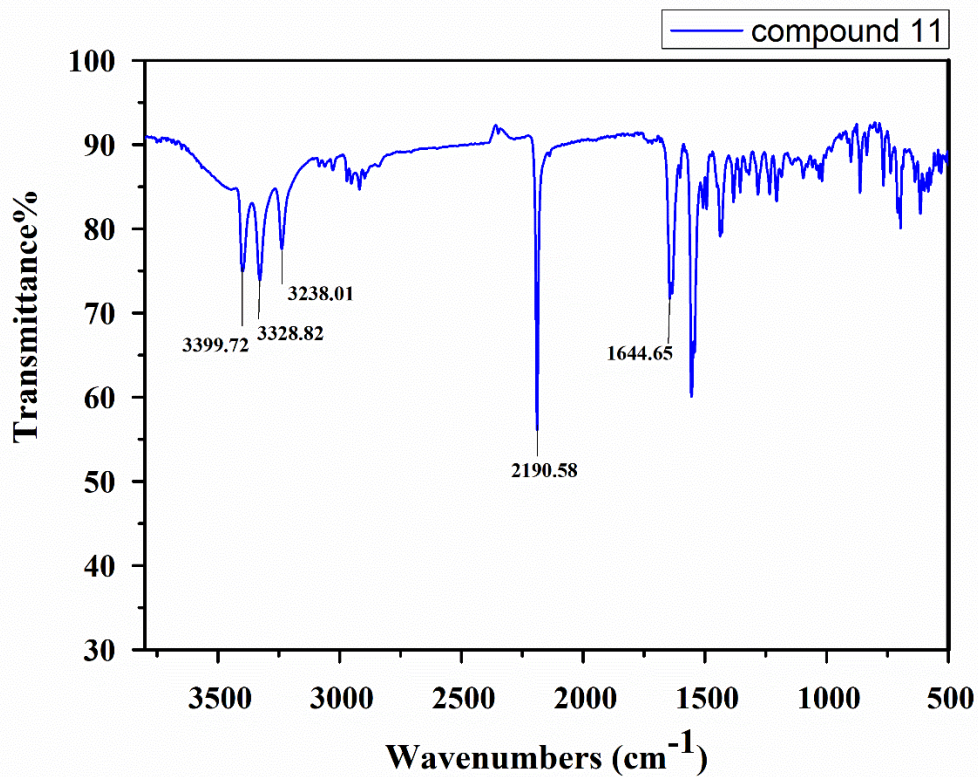
Figure S7: [a] FTIR and [b] <sup>1</sup>HNMR for the prepared compound 10.

Figure S8: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 11.

[a]



[b]

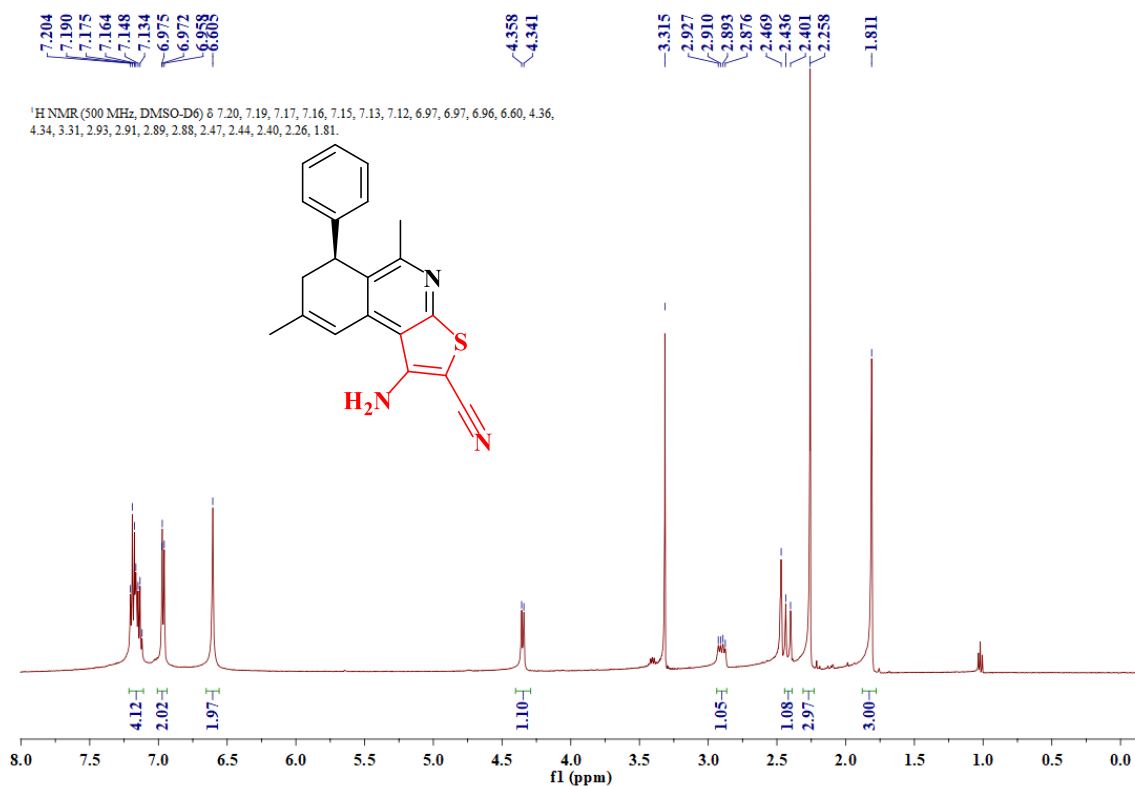
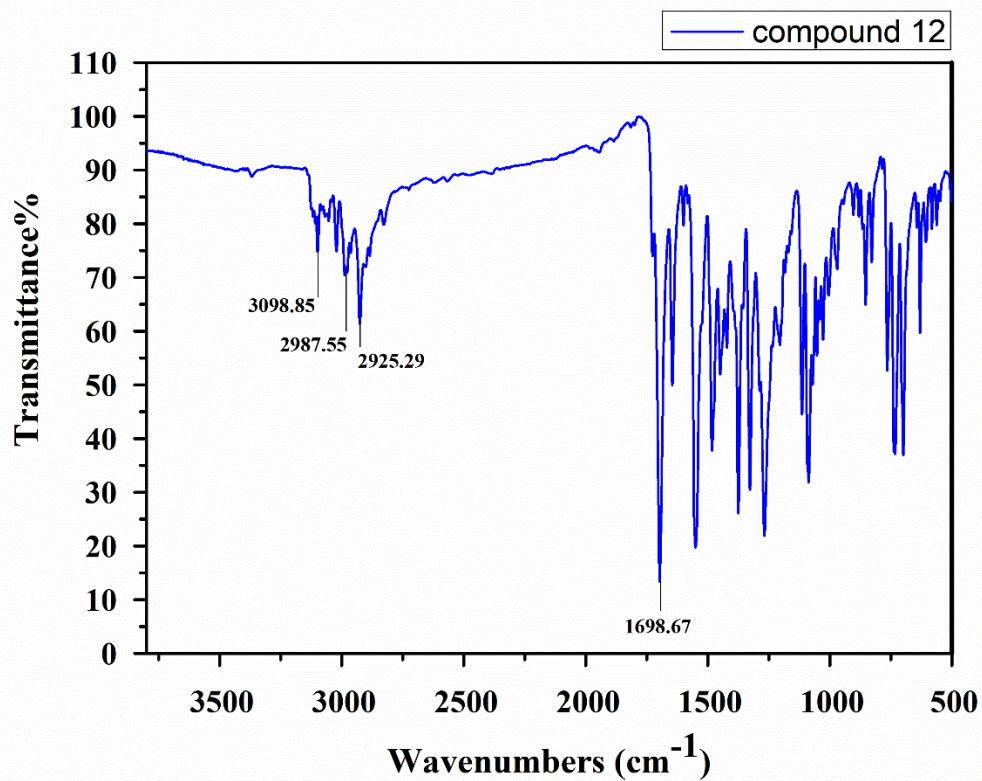


Figure S9: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 12.

[a]



[b]

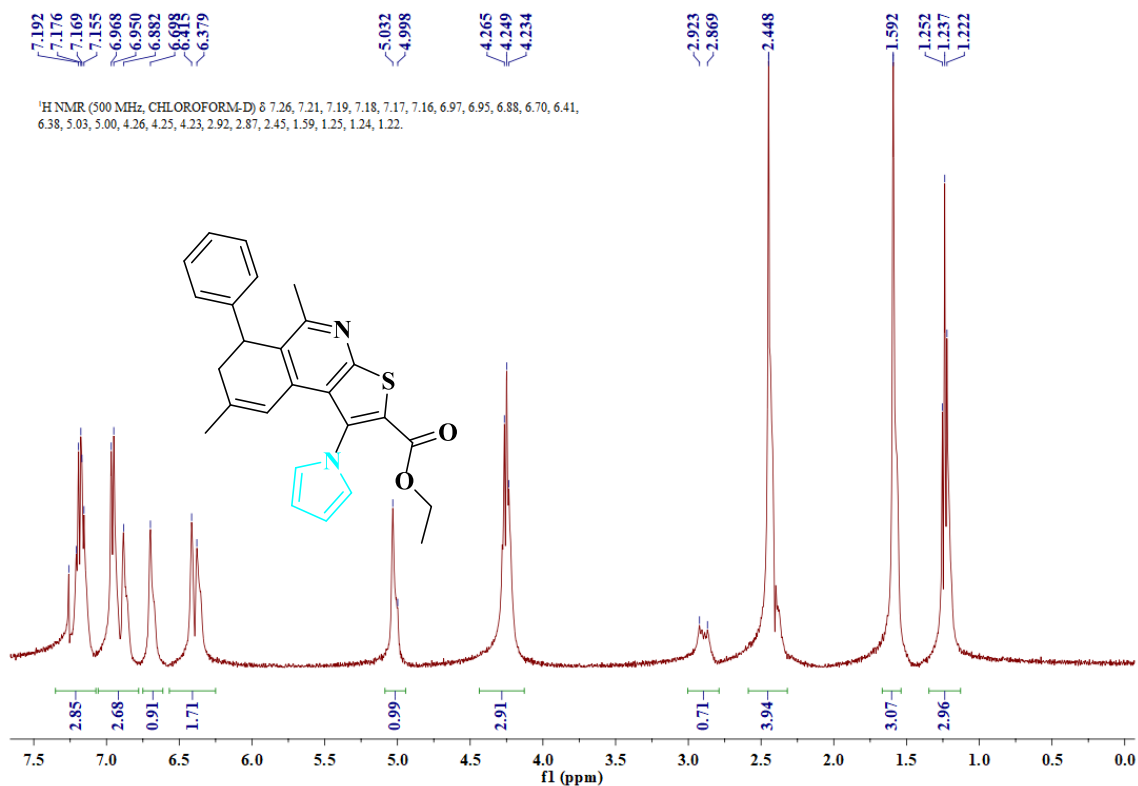
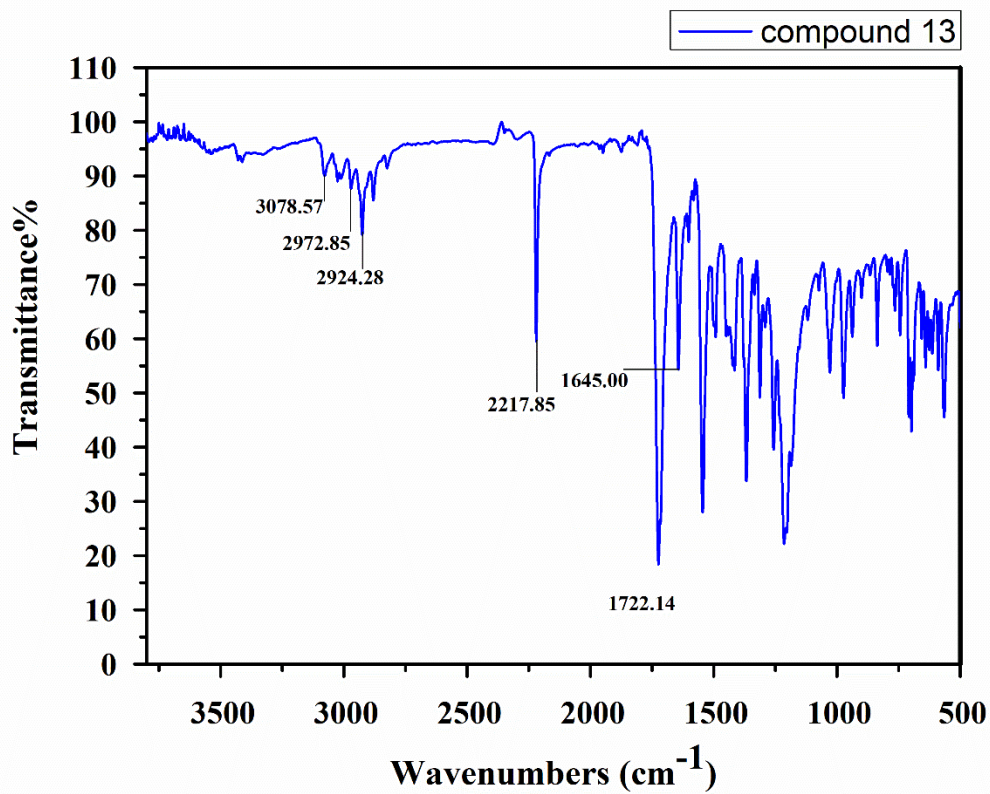


Figure S10: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 13.

[a]



[b]

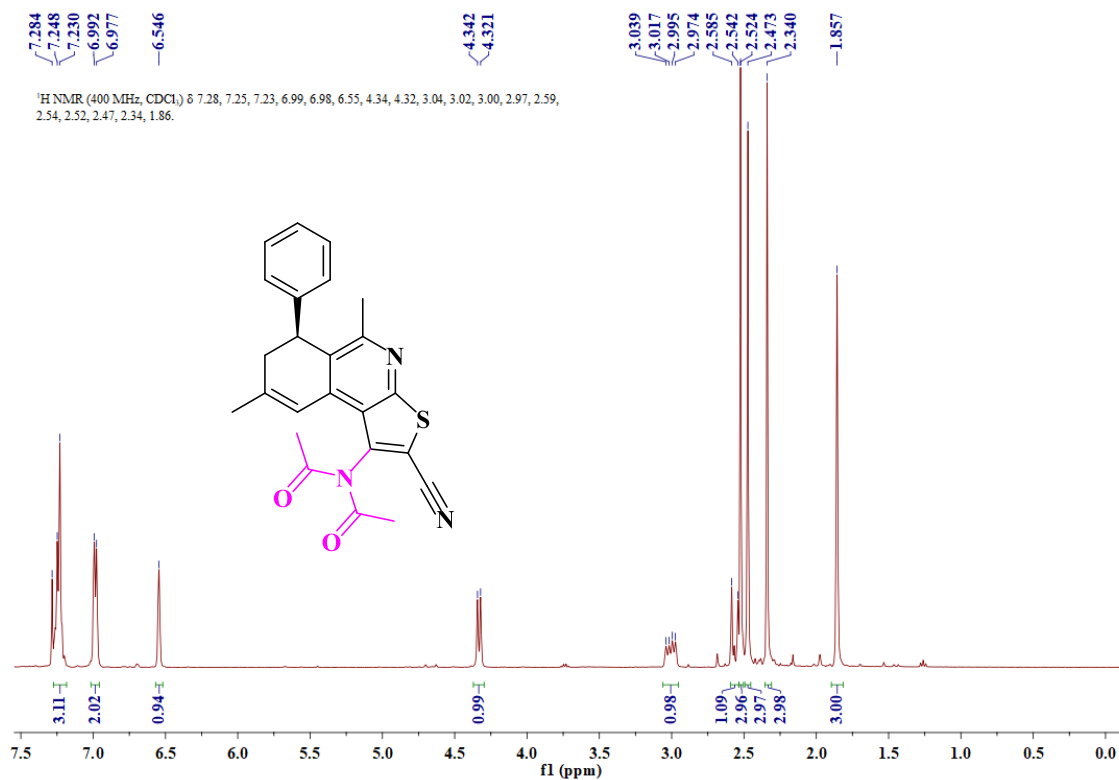
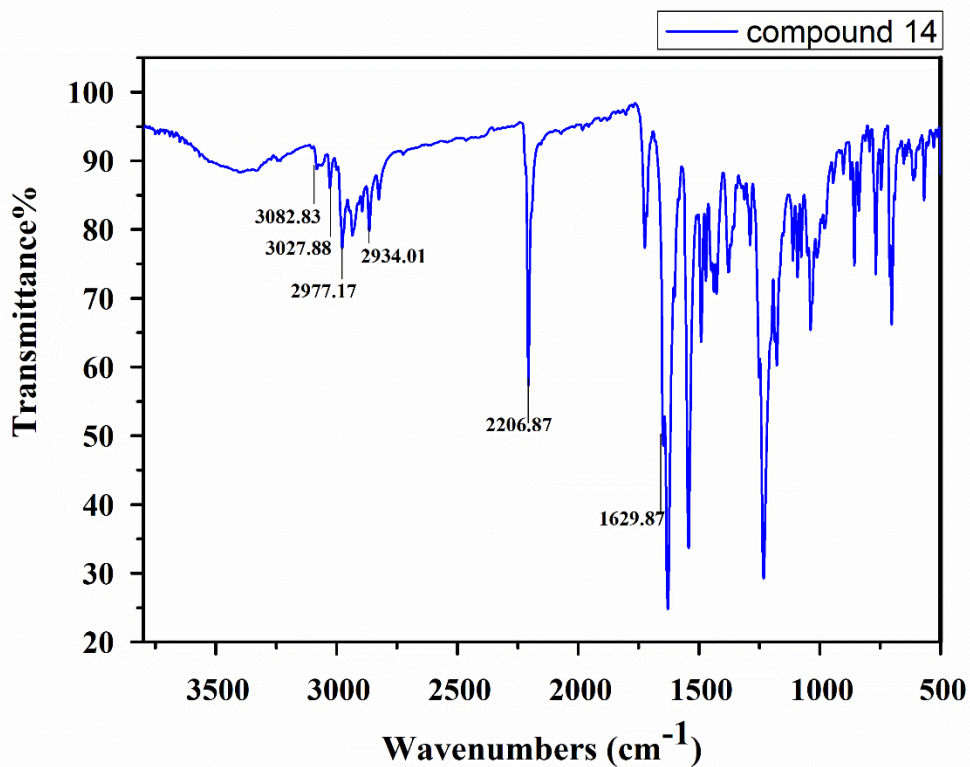


Figure S11: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 14.

[a]



[b]

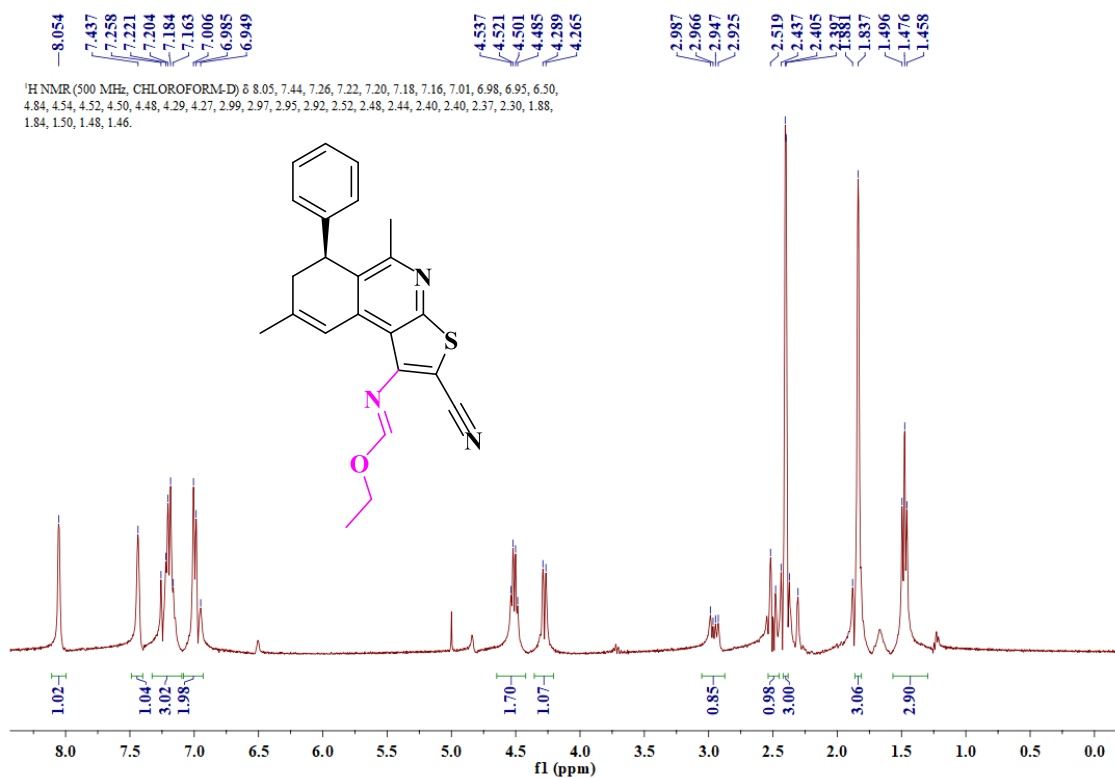
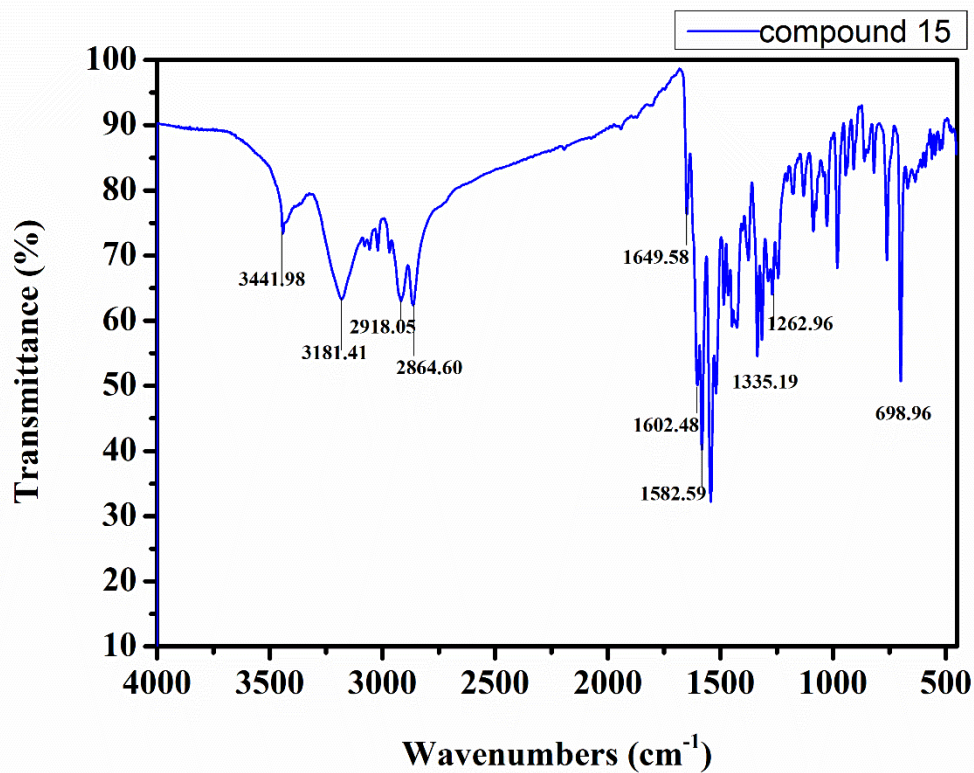




Figure S12: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 15.

[a]



[b]

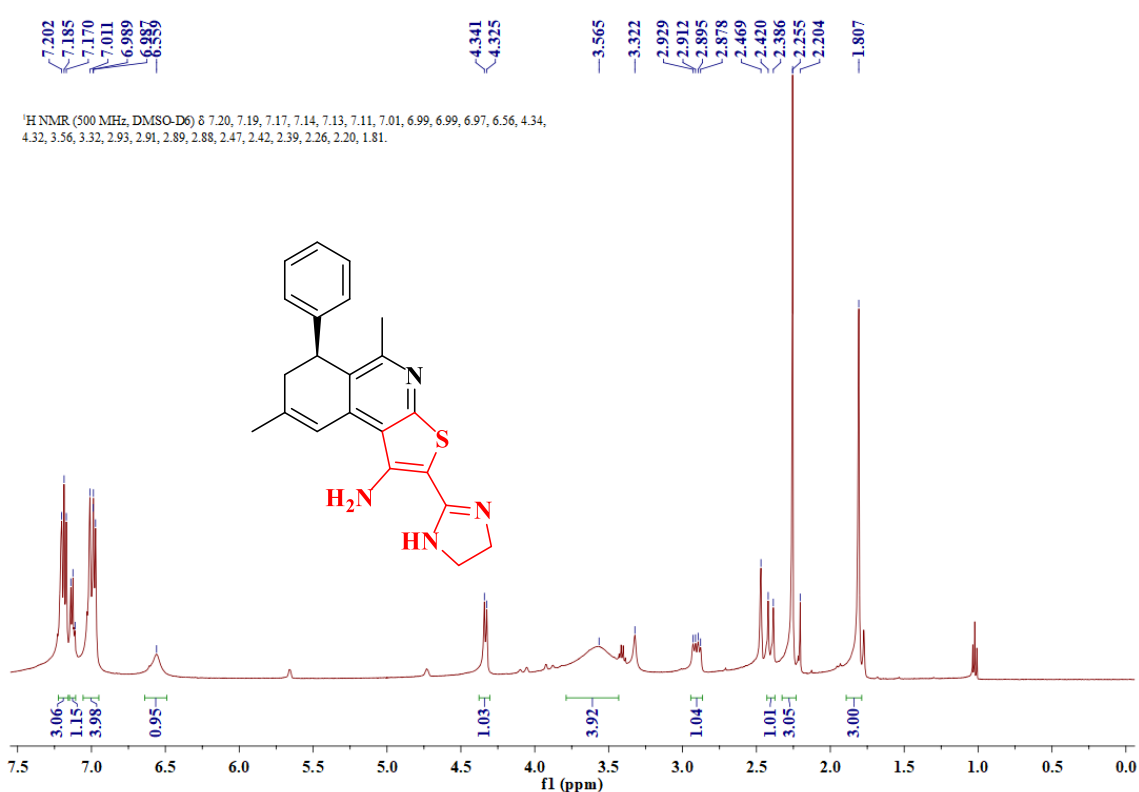
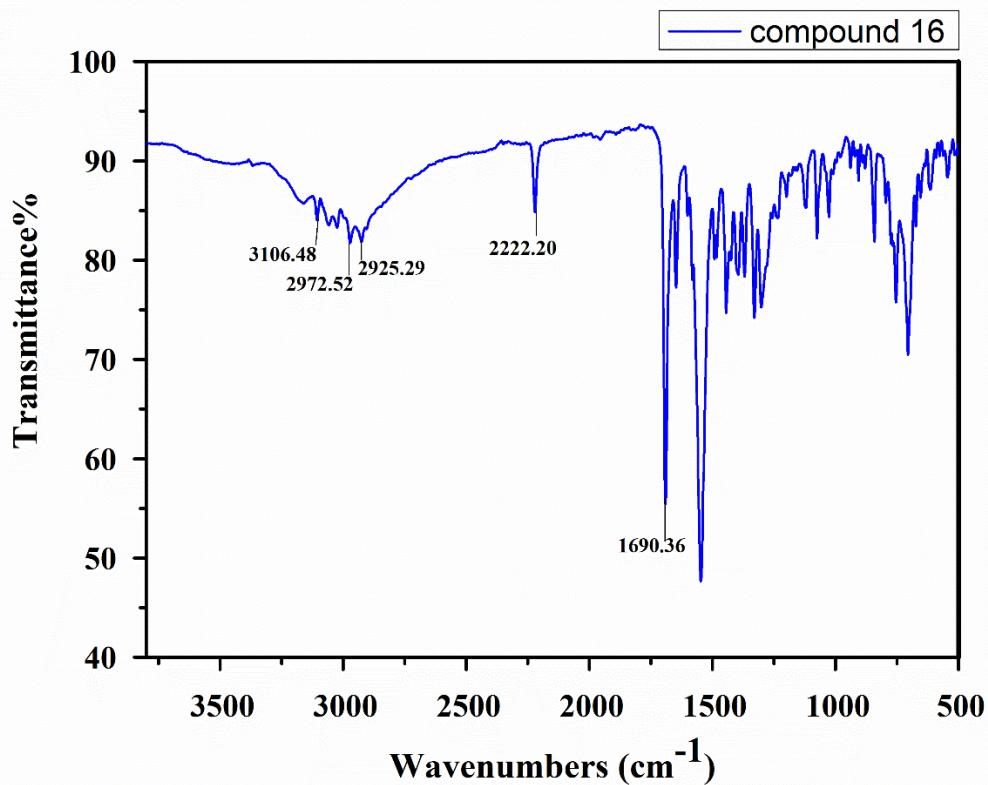




Figure S13: [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 16.

[a]



[b]

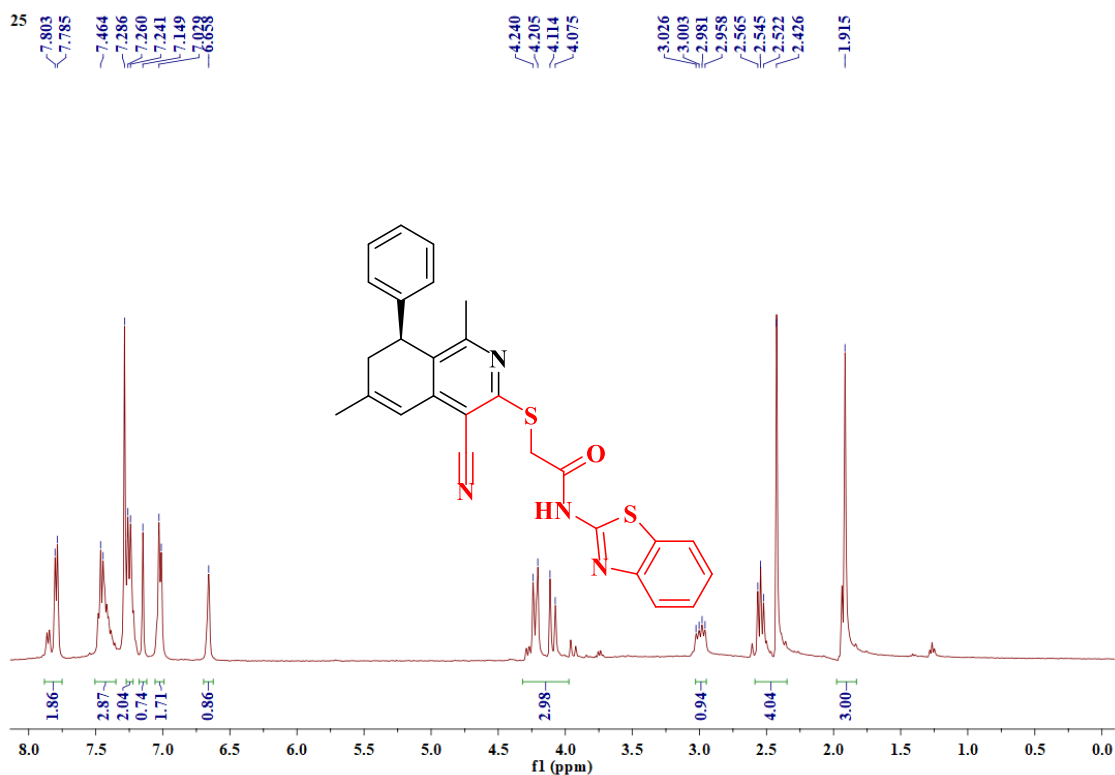
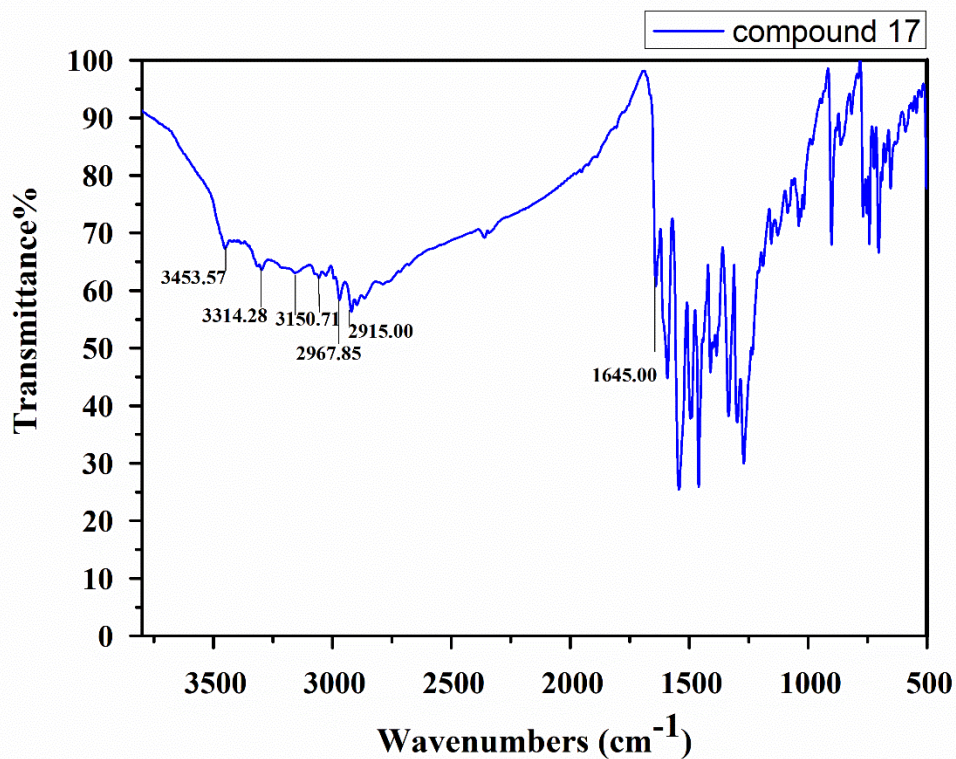
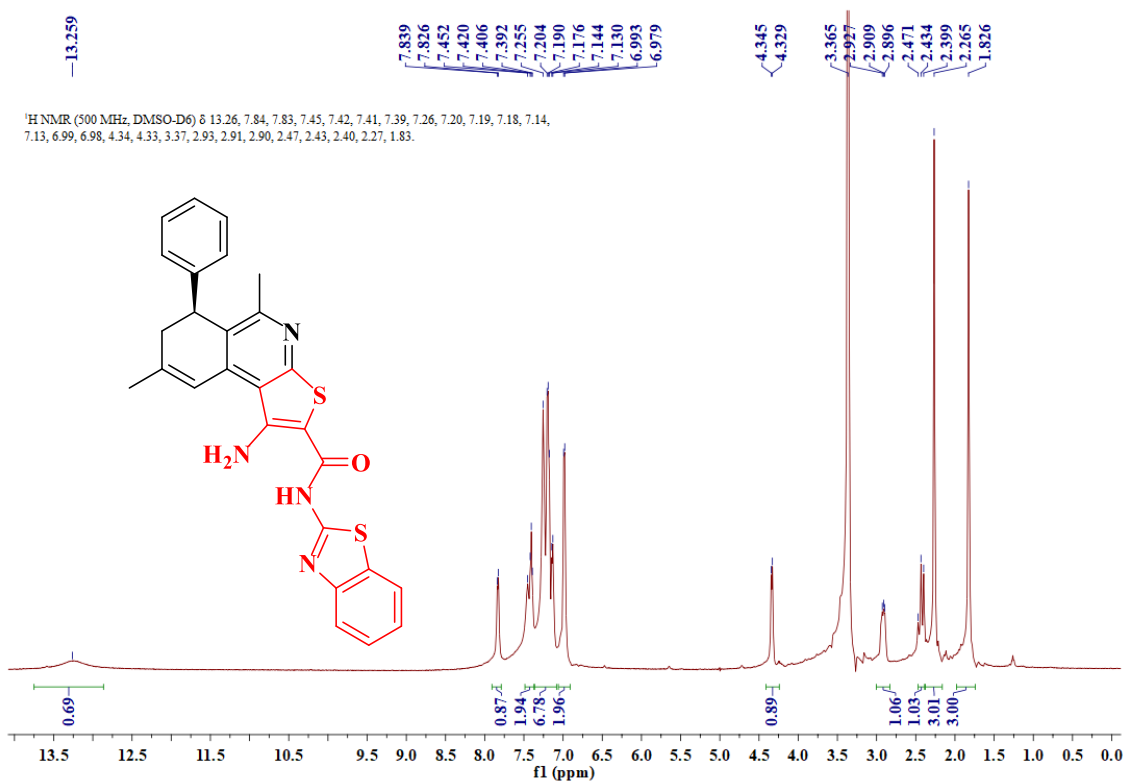


Figure S14: [a] FTIR and [b] <sup>1</sup>HNMR for the prepared compound 17.

[a]



[b]



**Figure S15:** [a] FTIR and [b]  $^1\text{H}$ NMR for the prepared compound 18.

[a]

