

# Supplementary Materials: Synthesis and Characterization of Some New Bis-Pyrazolyl-Thiazoles Incorporating the Thiophene Moiety as Potent Anti-Tumor Agents

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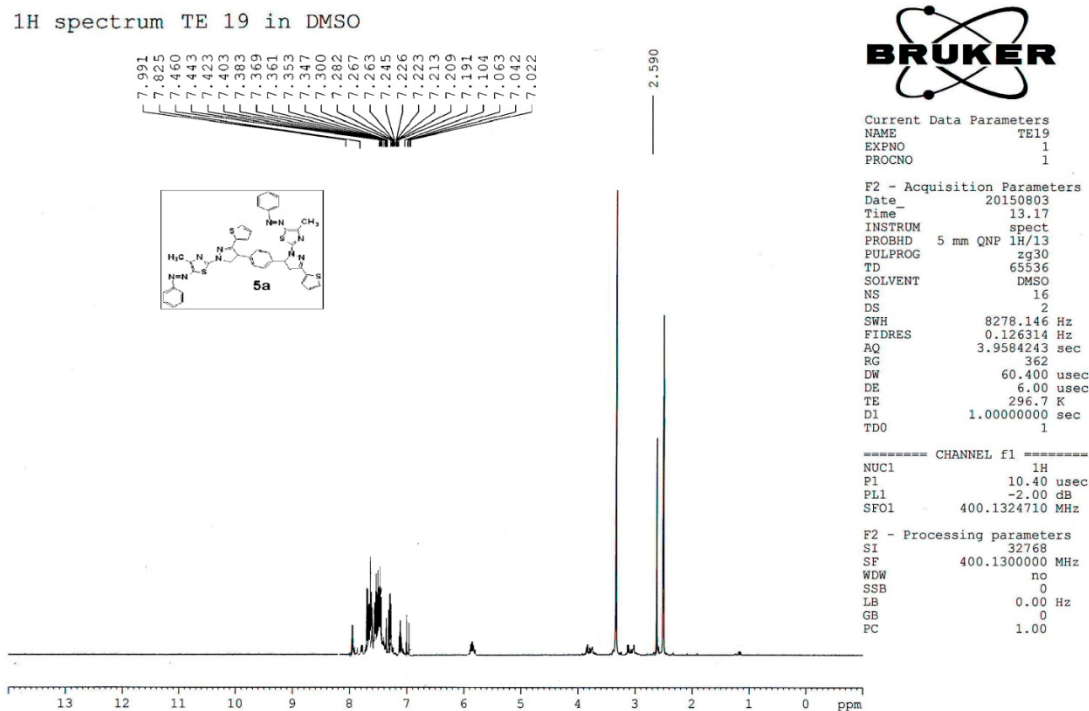


Figure S1. <sup>1</sup>H NMR spectrum of compound 3a.

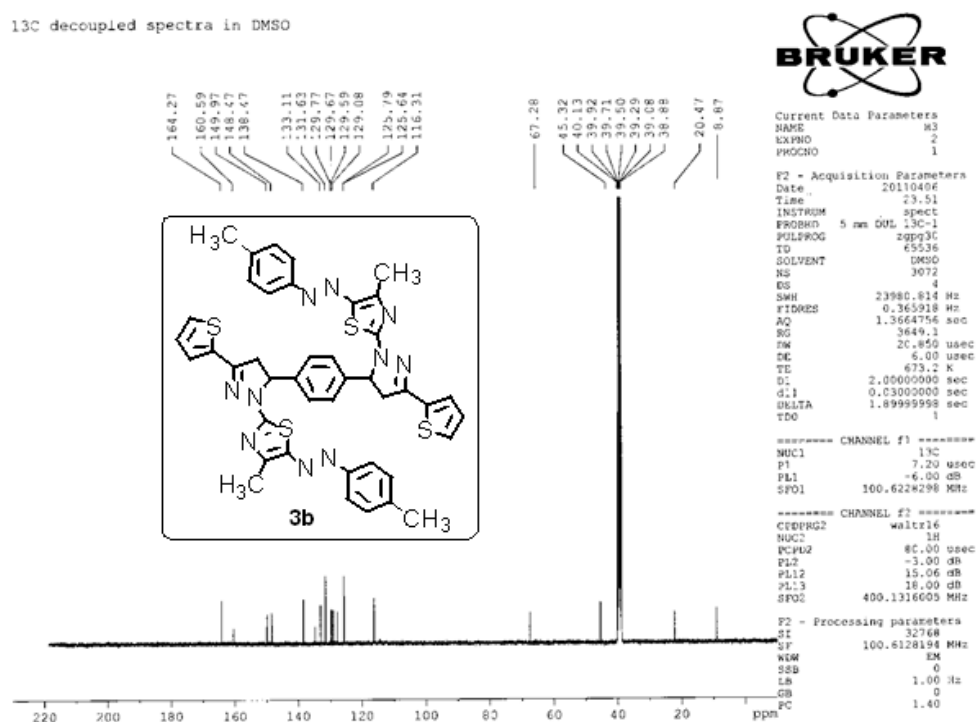
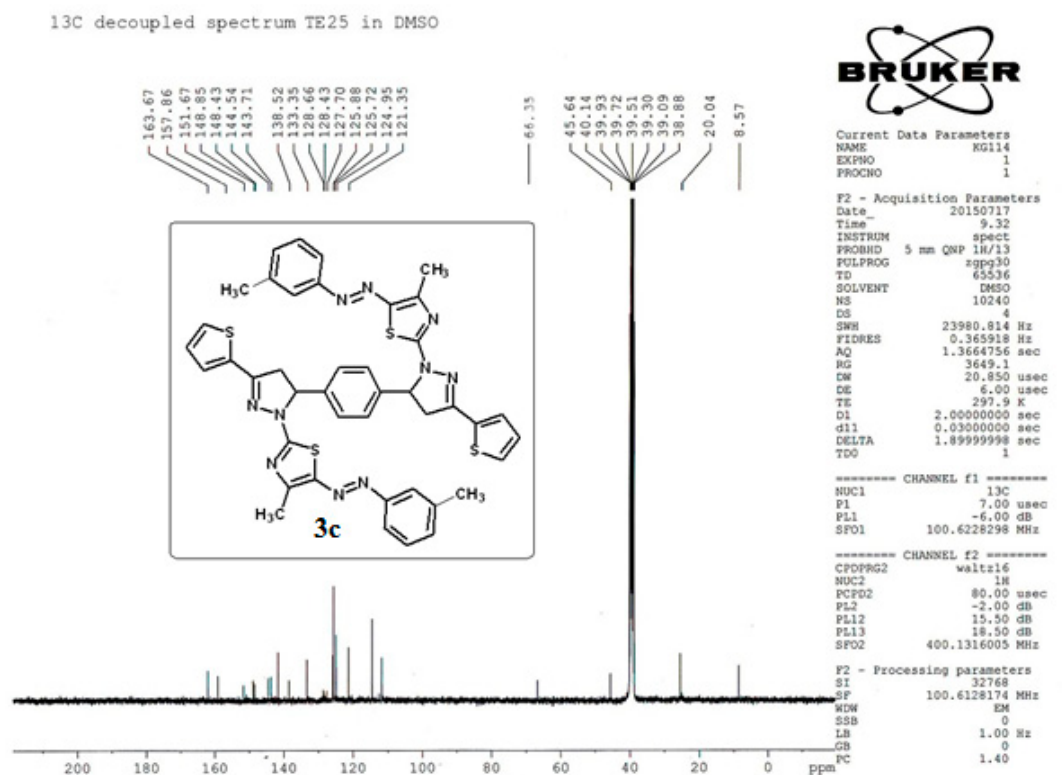
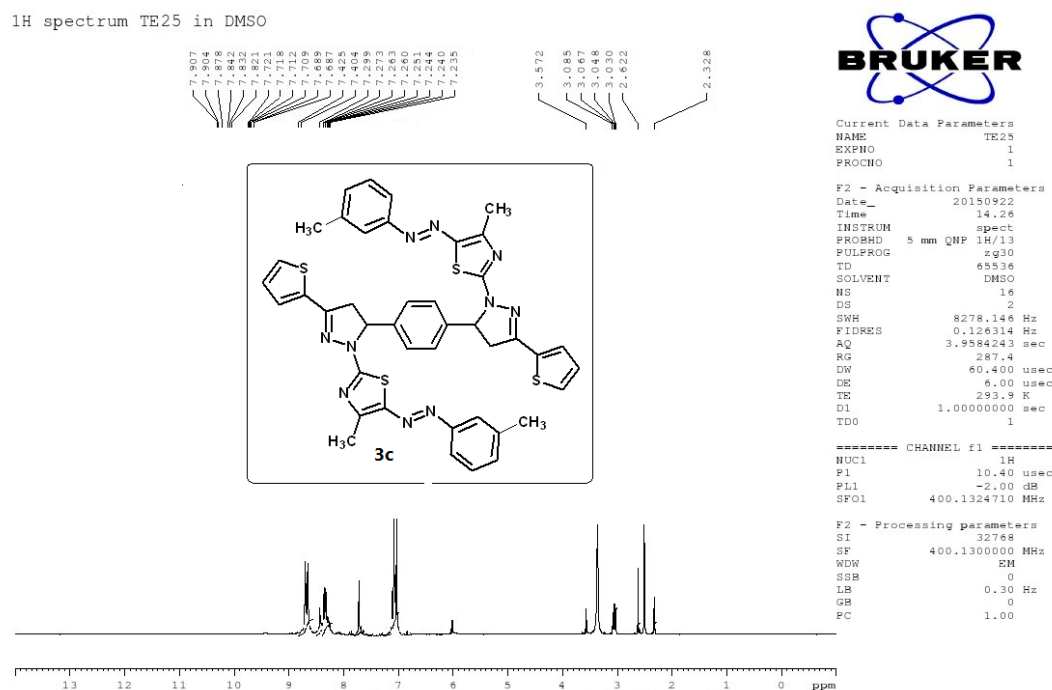
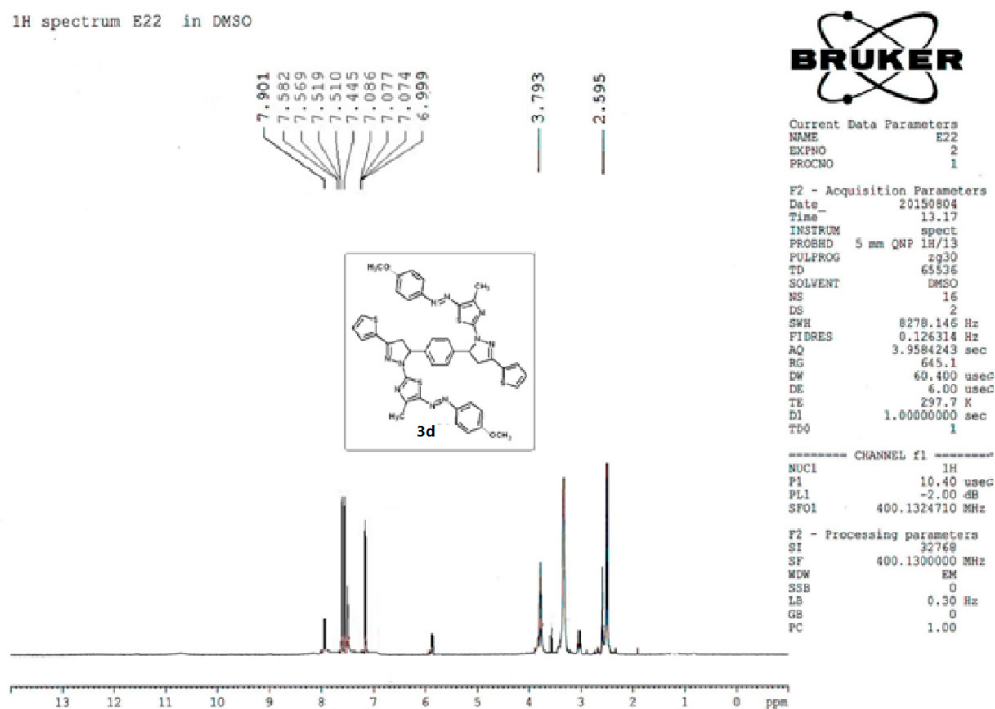
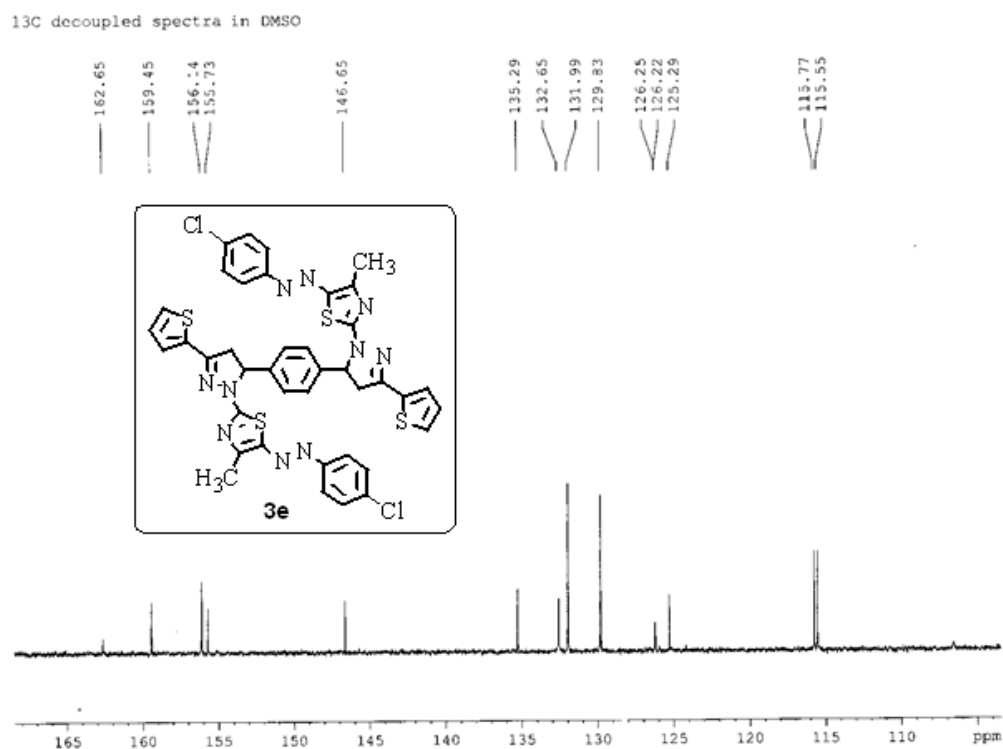
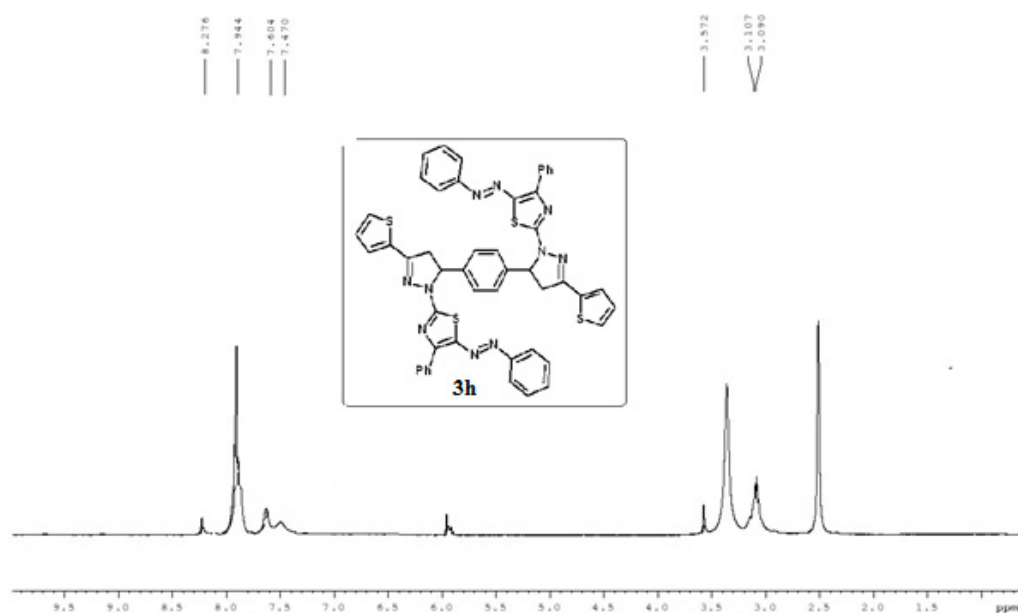
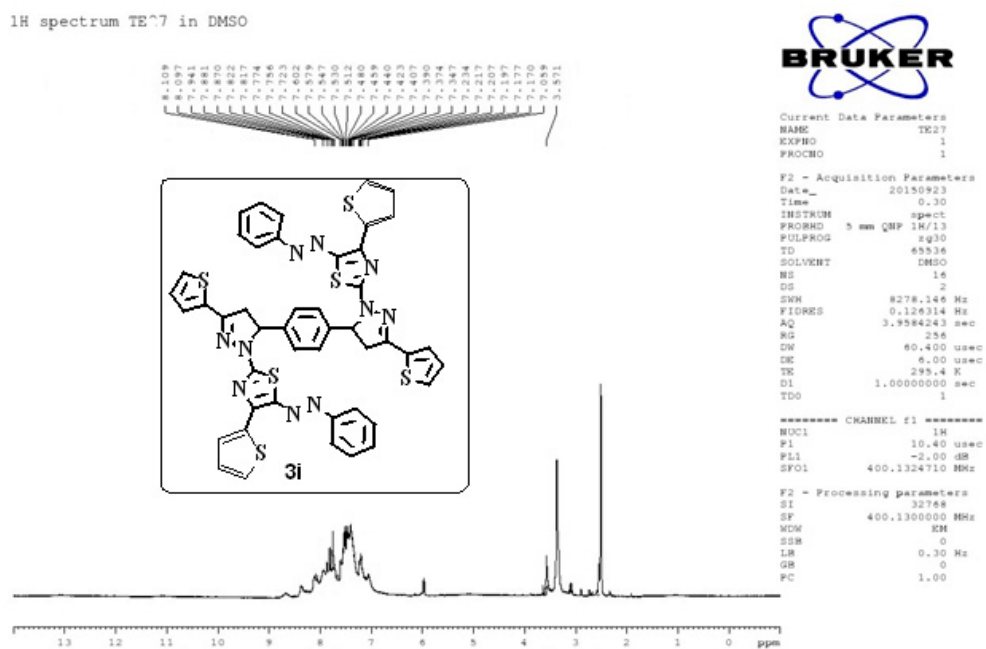
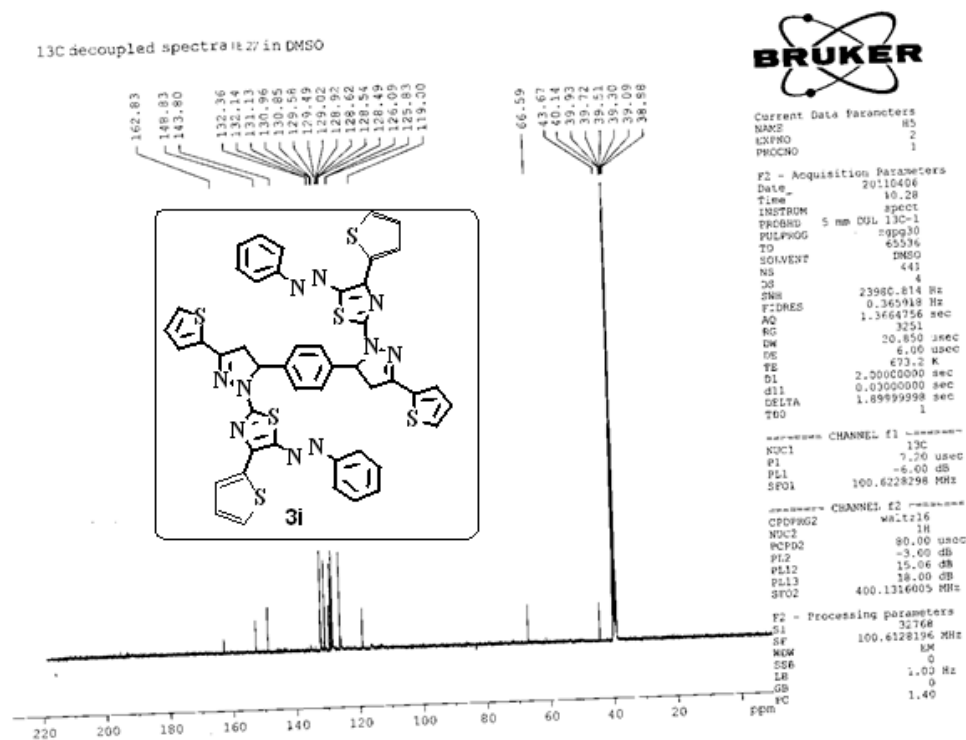
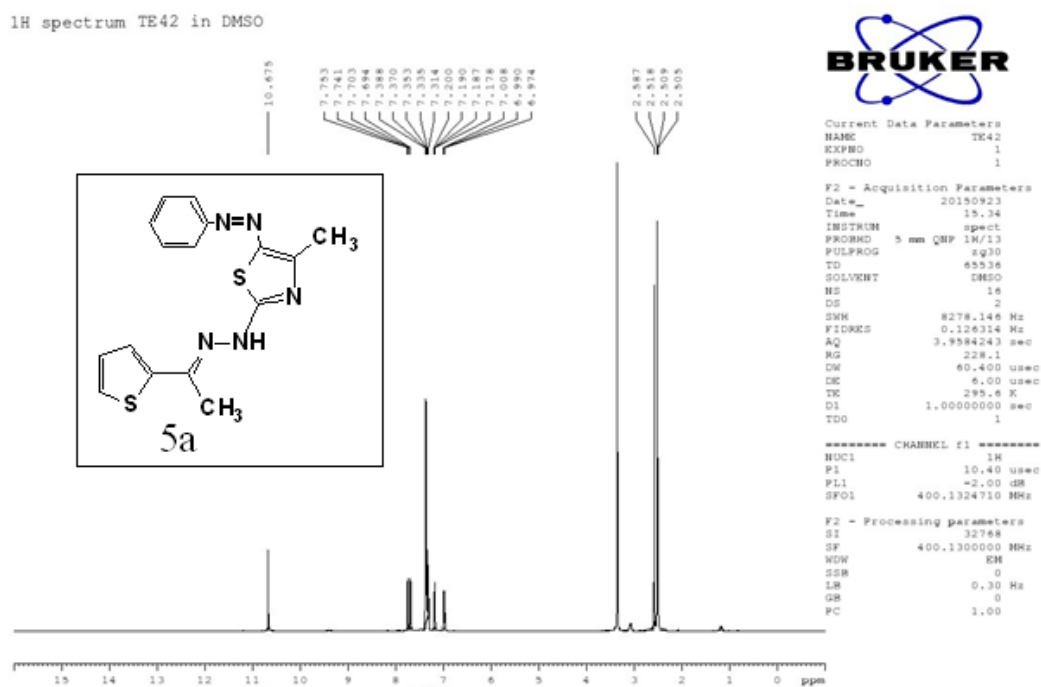


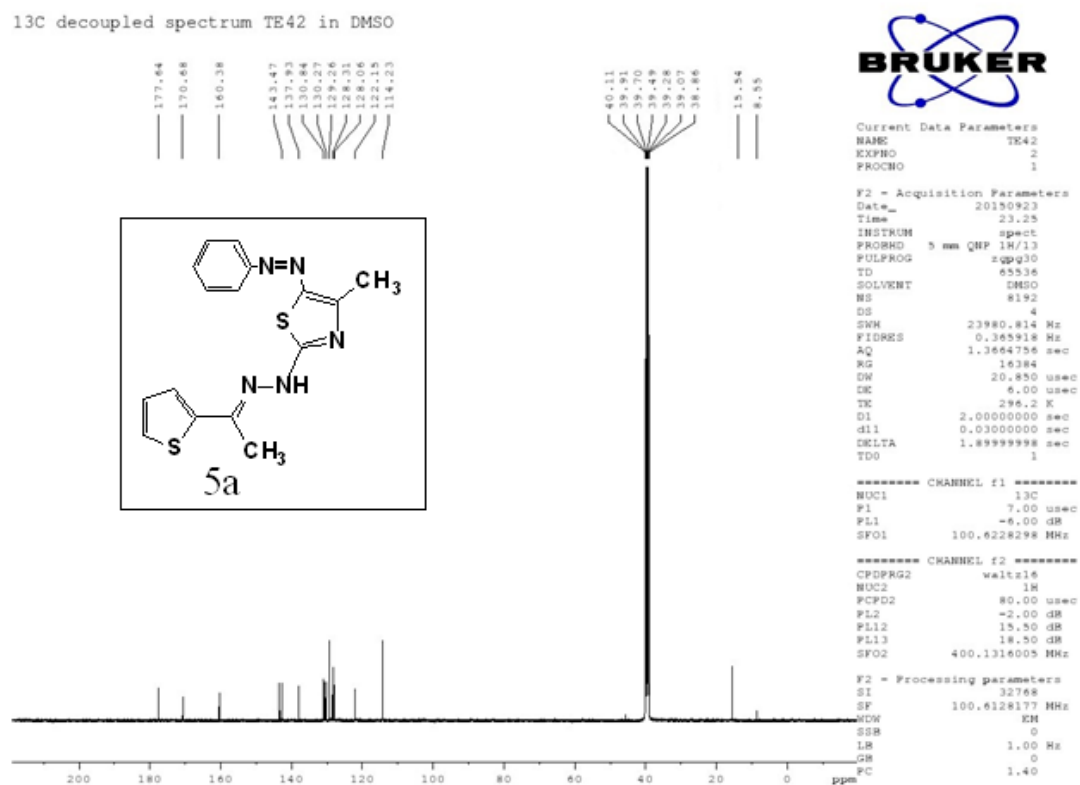
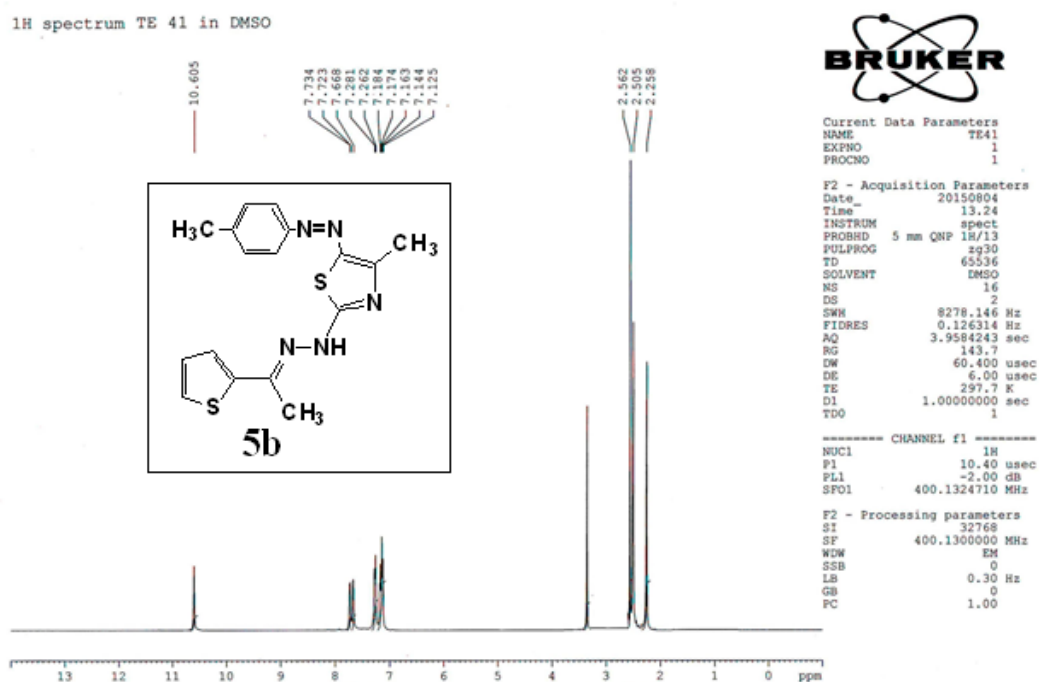
Figure S2. <sup>13</sup>C NMR spectrum of compound 3b.

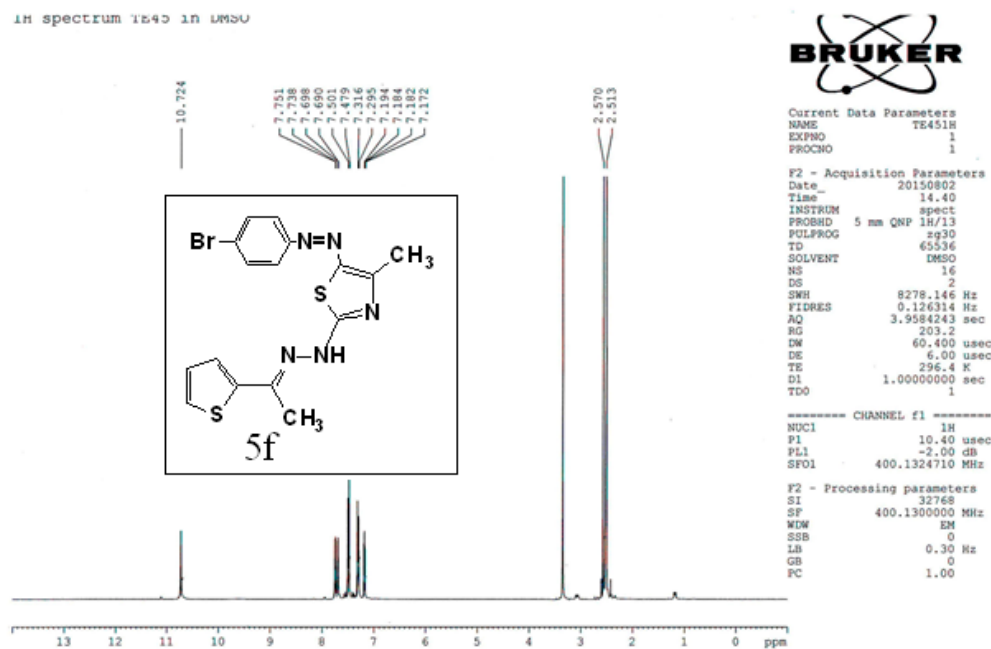
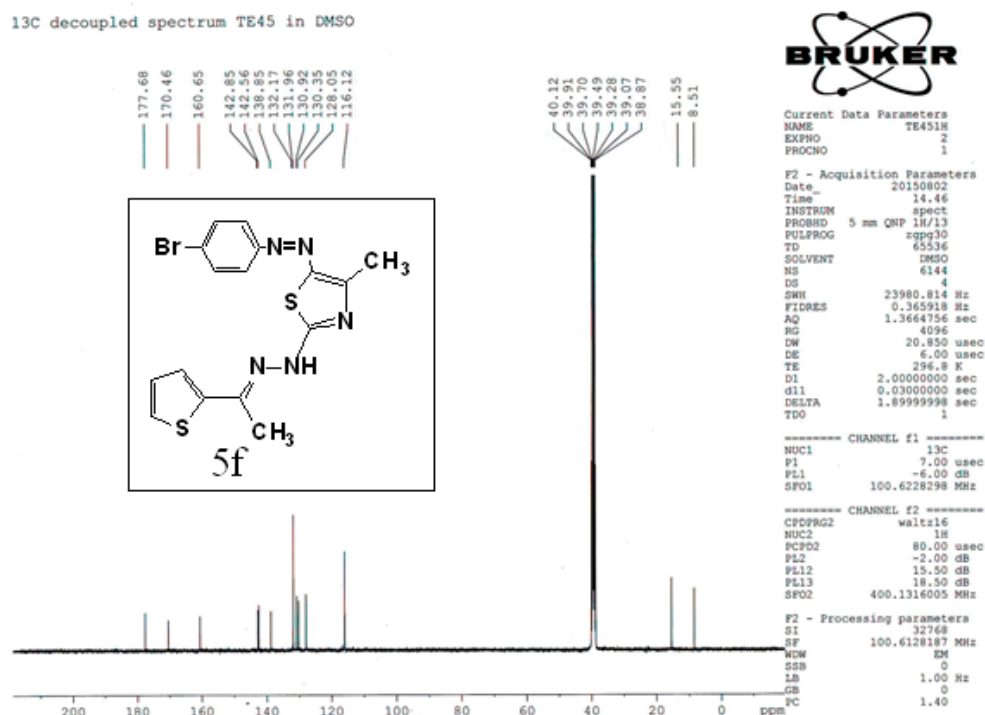
Figure S3. <sup>13</sup>C NMR spectrum of compound 3c.Figure S4. <sup>1</sup>H NMR spectrum of compound 3c.

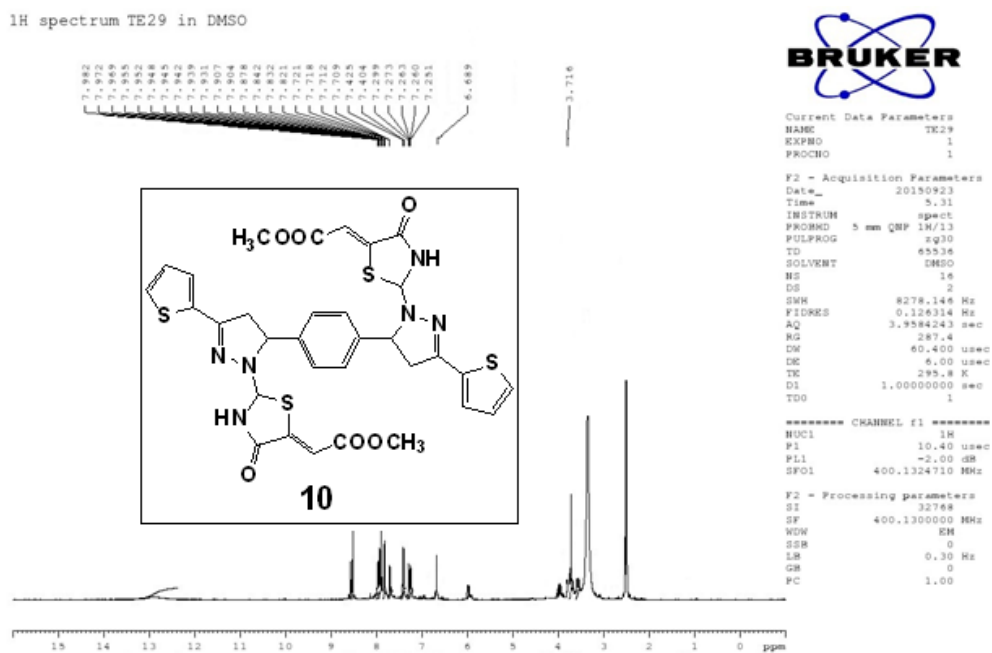
Figure S5. <sup>1</sup>H NMR spectrum of compound 3d.Figure S6. <sup>13</sup>C NMR spectrum of compound 3e.

<sup>1</sup>H spectrum TE26 in DMSOFigure S7. <sup>1</sup>H NMR spectrum of compound **3h**.<sup>1</sup>H spectrum TE27 in DMSOFigure S8. <sup>1</sup>H NMR spectrum of compound **3i**.

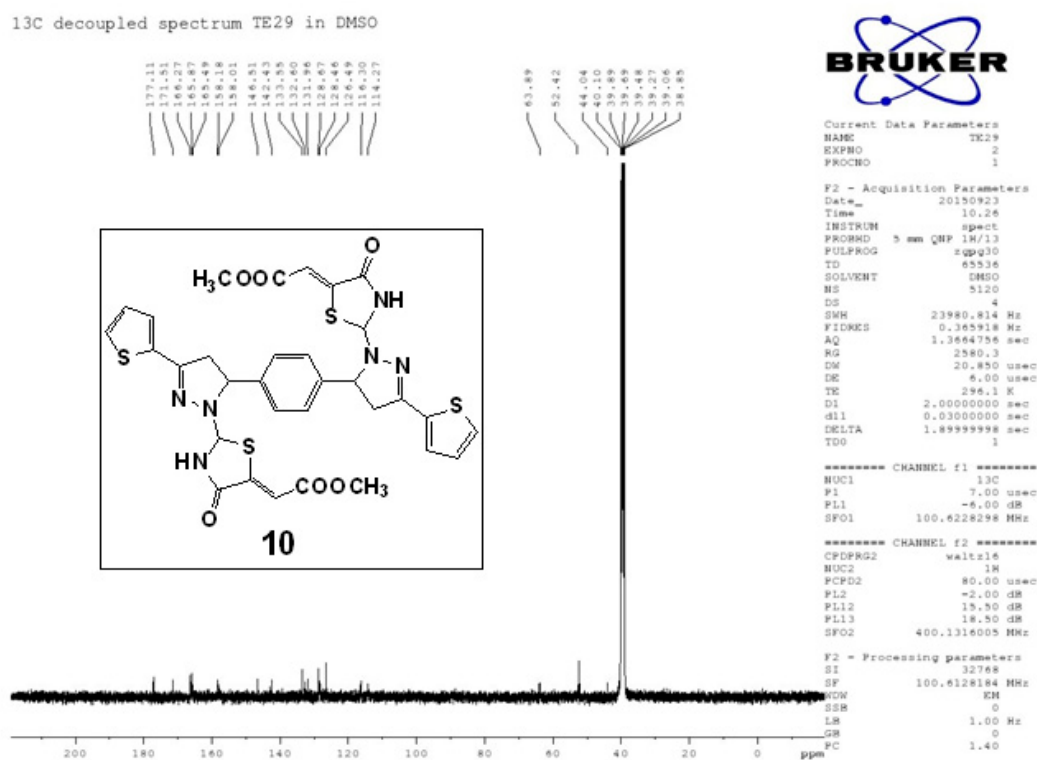
Figure S9. <sup>13</sup>C NMR spectrum of compound 3i.Figure S10. <sup>1</sup>H NMR spectrum of compound 5a.

Figure S11. <sup>13</sup>C NMR spectrum of compound 5a.Figure S12. <sup>1</sup>H NMR spectrum of compound 5b.

Figure S13. <sup>1</sup>H NMR spectrum of compound 5f.Figure S14. <sup>13</sup>C NMR spectrum of compound 5f.



**Figure S15.**  $^1\text{H}$  NMR spectrum of compound **10**.



**Figure S16.**  $^{13}\text{C}$  NMR spectrum of compound **10**.