

## Supplementary Material

### Environmentally benign synthesis of isoxazolone derivatives using lemon juice under ultrasonic conditions

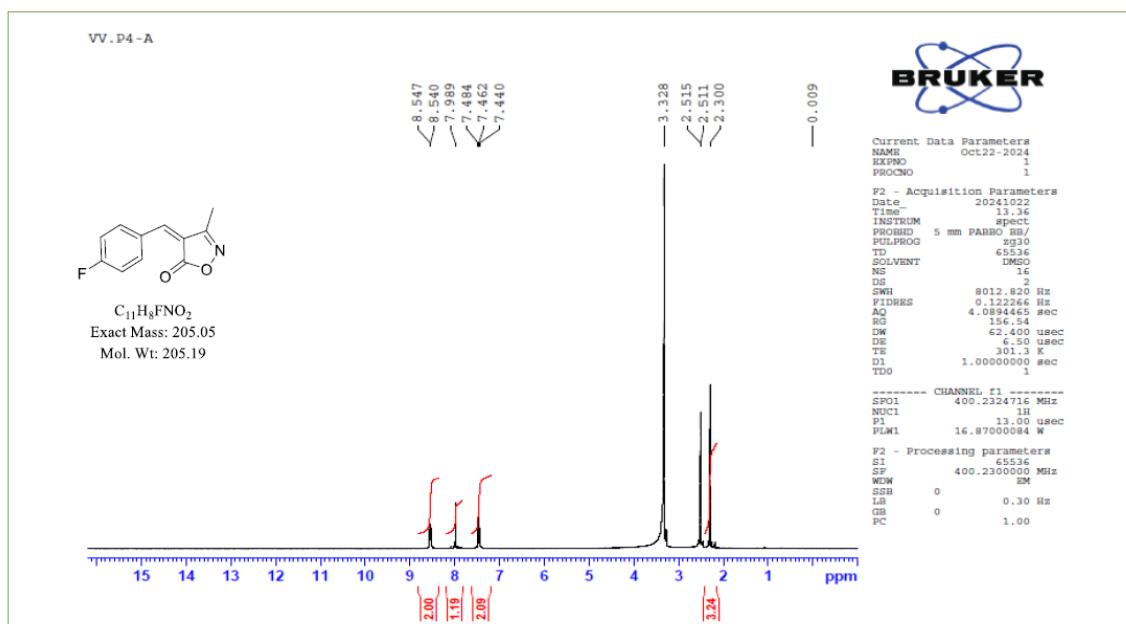
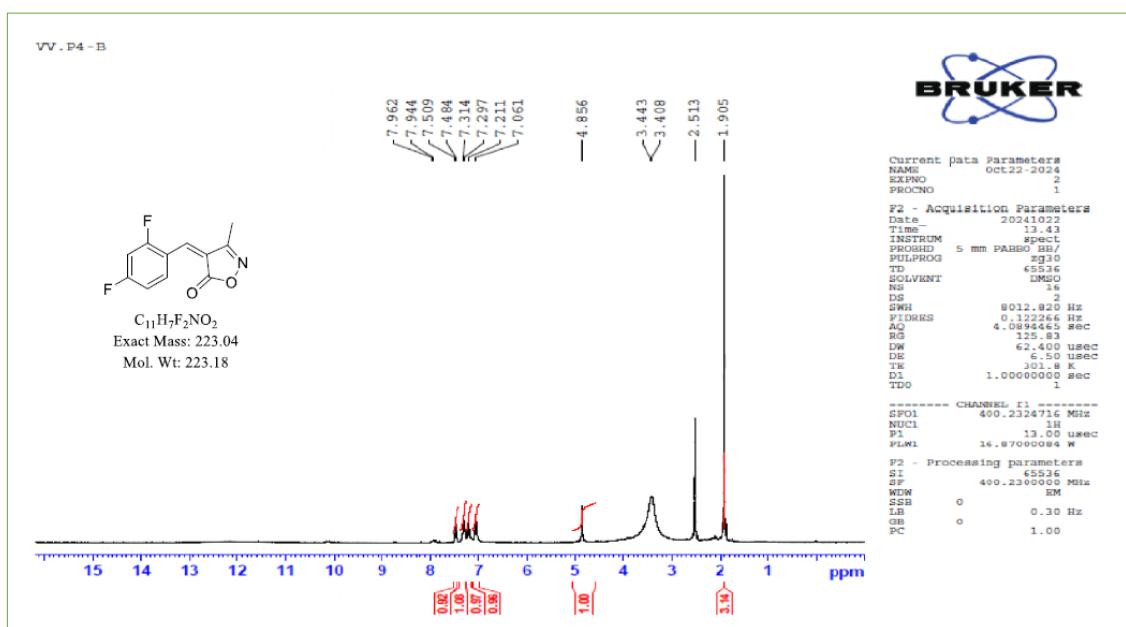
Vilas Vane,<sup>a</sup> Ramesh Mokal,<sup>a</sup> Gopinath Shirole,<sup>b</sup> and Suresh Jadhavar<sup>a\*</sup>

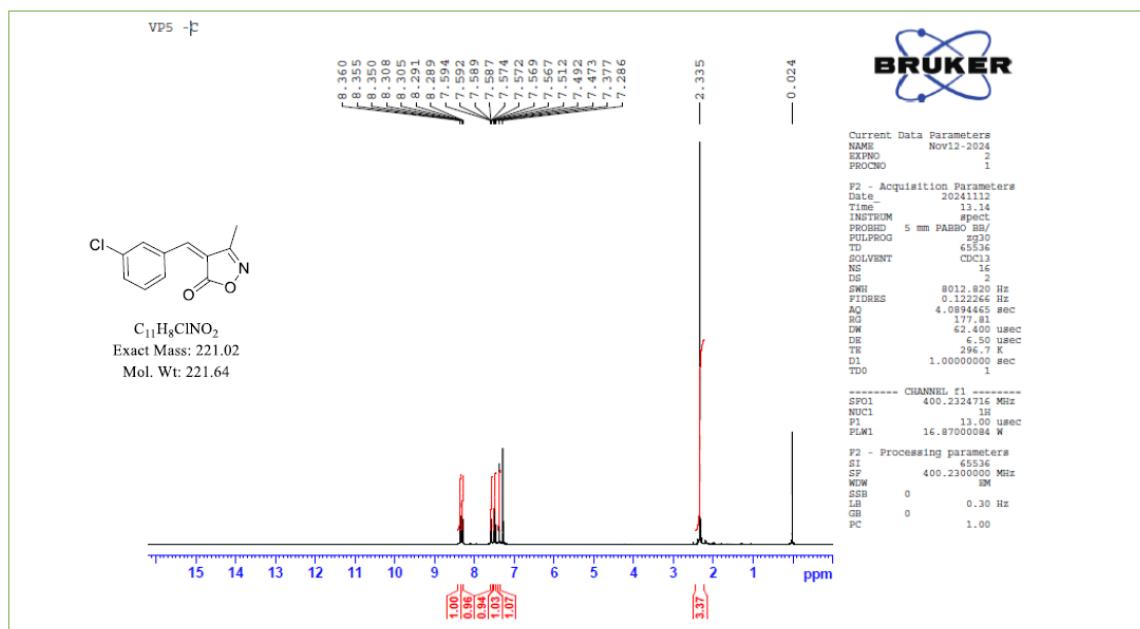
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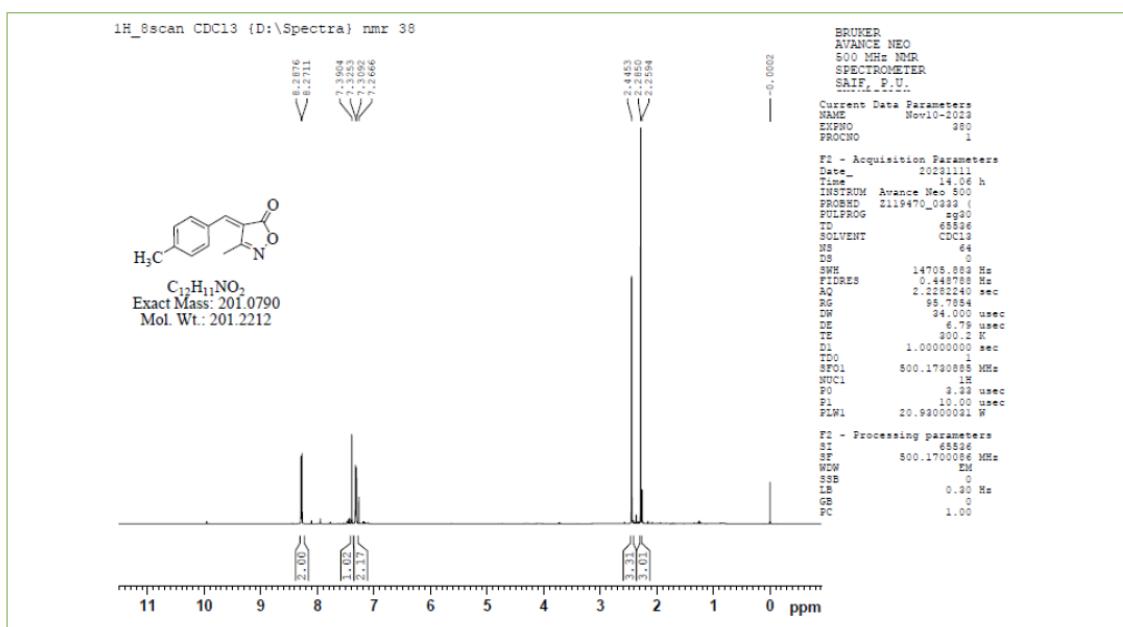
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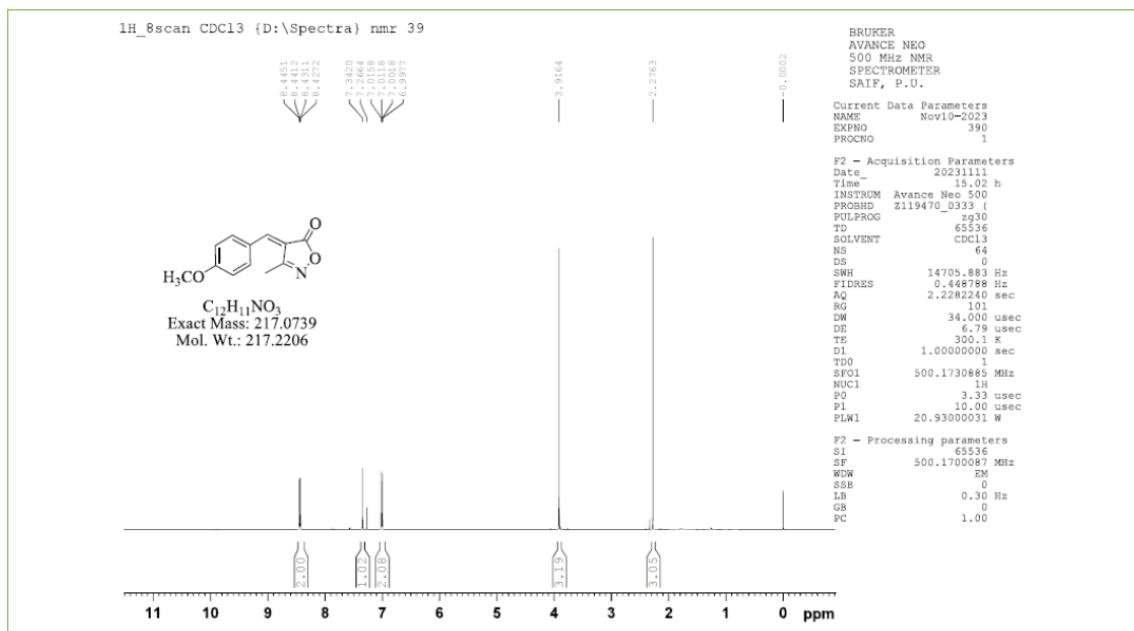
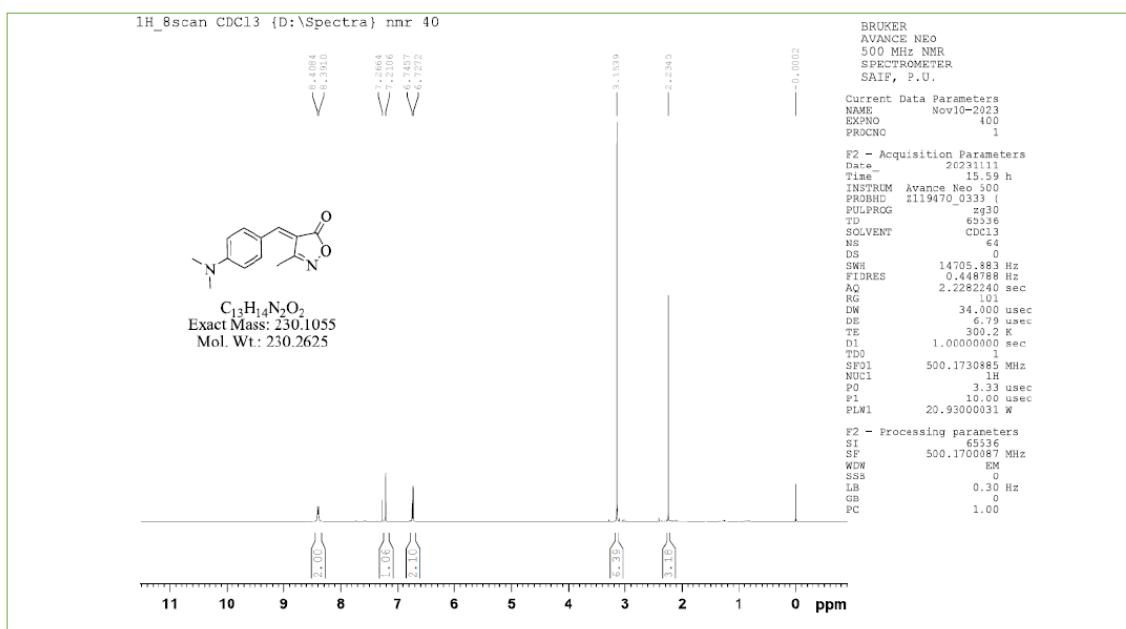
**<sup>1</sup>H NMR spectra of synthesized compound****Figure S1.**  $^1\text{H}$  NMR spectrum of Comp-4a**Figure S2.**  $^1\text{H}$  NMR spectrum of Comp-4b

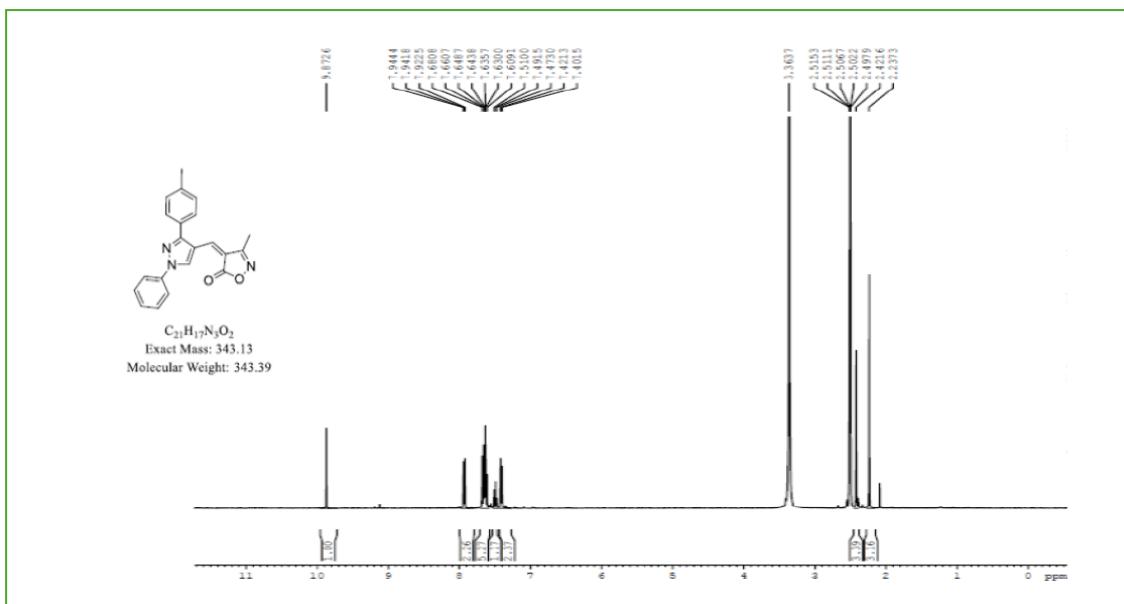


**Figure S3.**  $^1\text{H}$  NMR spectrum of Comp-4c

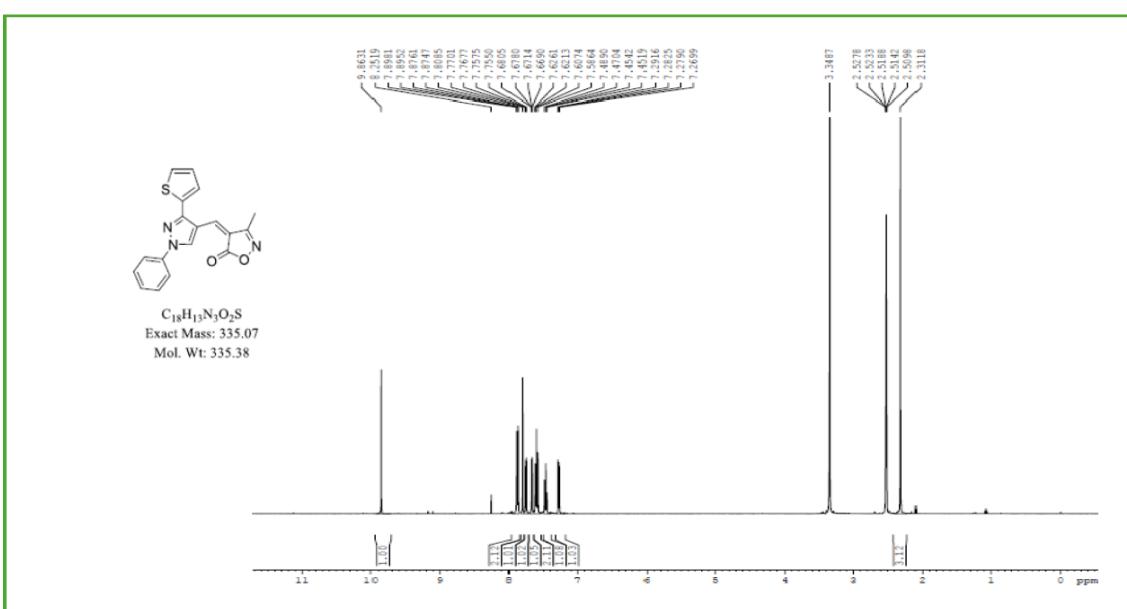


**Figure S4.**  $^1\text{H}$  NMR spectrum of Comp-4d

**Figure S5.** <sup>1</sup>H NMR spectrum of Comp-4e**Figure S6.** <sup>1</sup>H NMR spectrum of Comp-4f

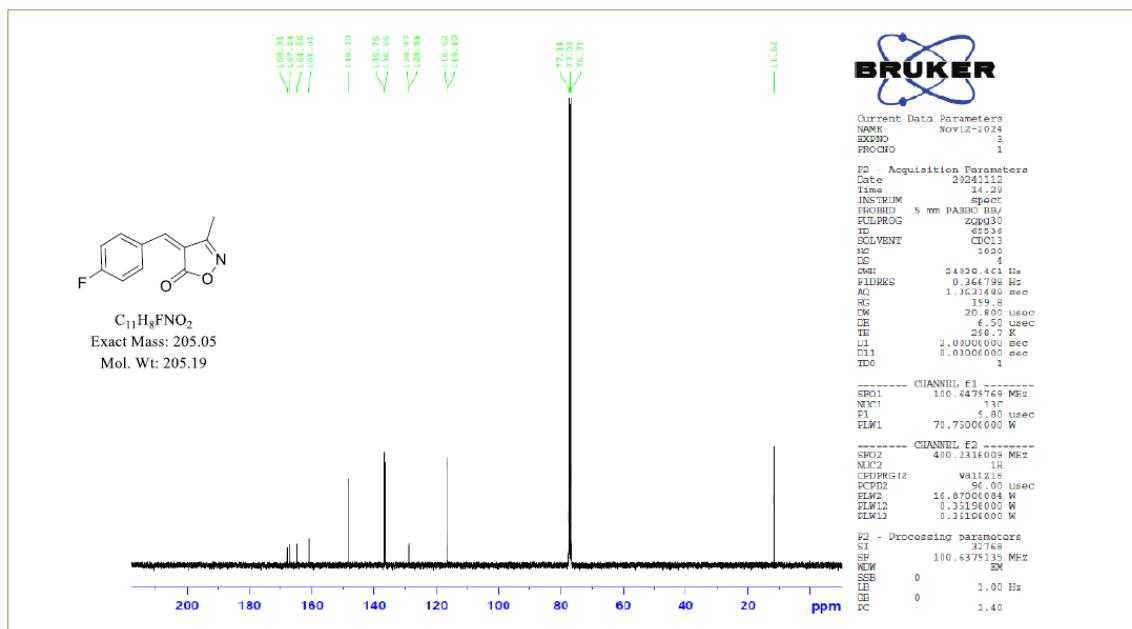


**Figure S7.**  $^1\text{H}$  NMR spectrum of Comp-4g

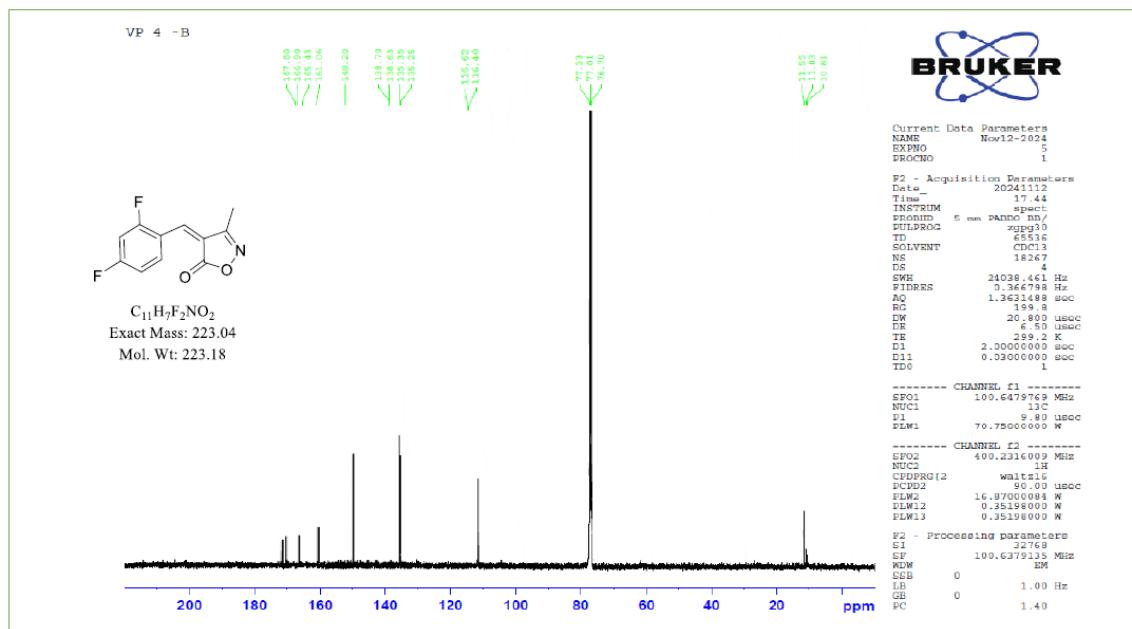


**Figure S8.**  $^1\text{H}$  NMR spectrum of Comp-4h

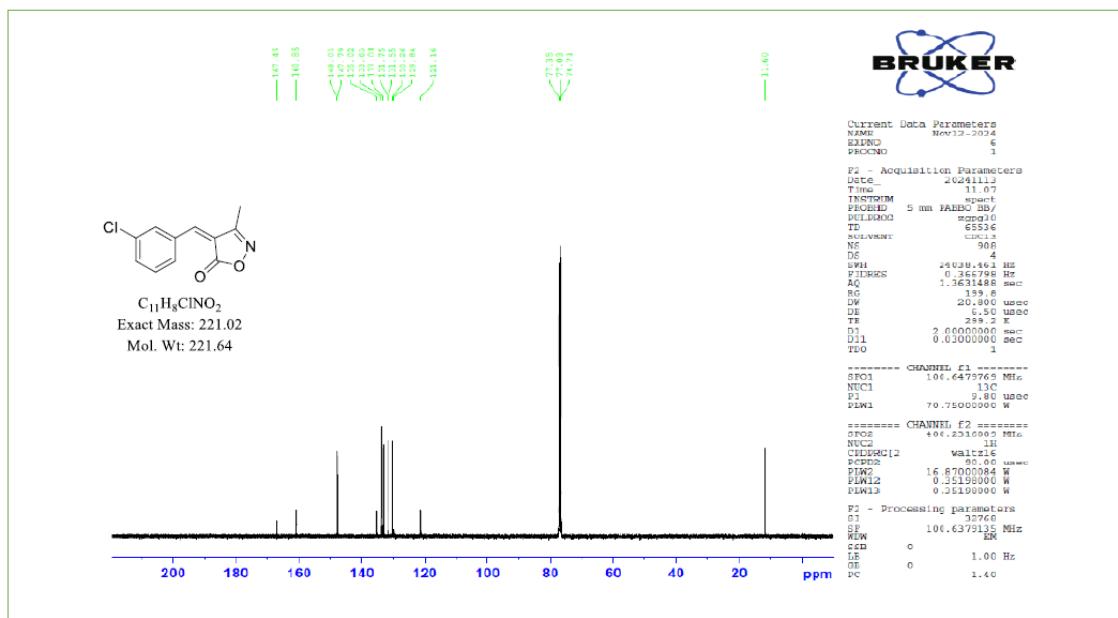
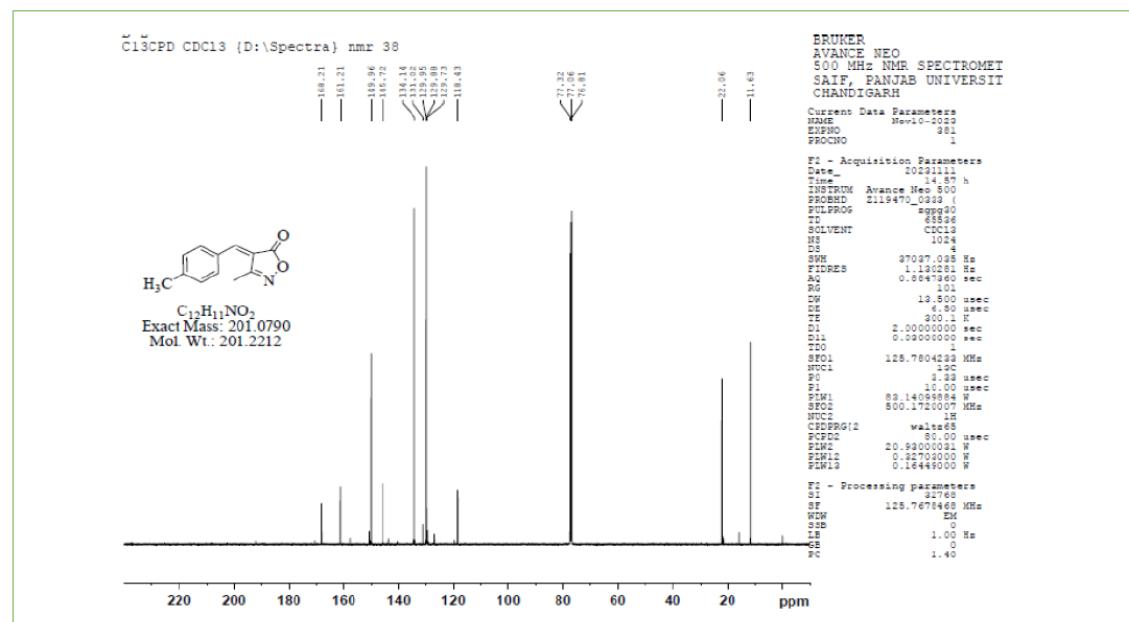
### **<sup>13</sup>C NMR spectra of synthesized compound**

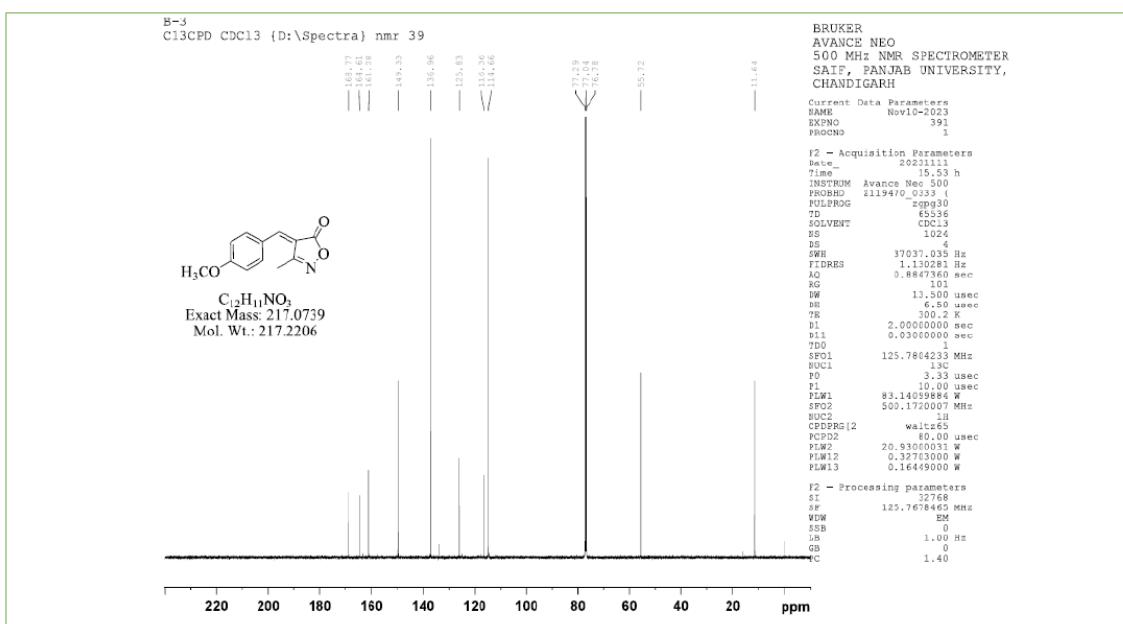
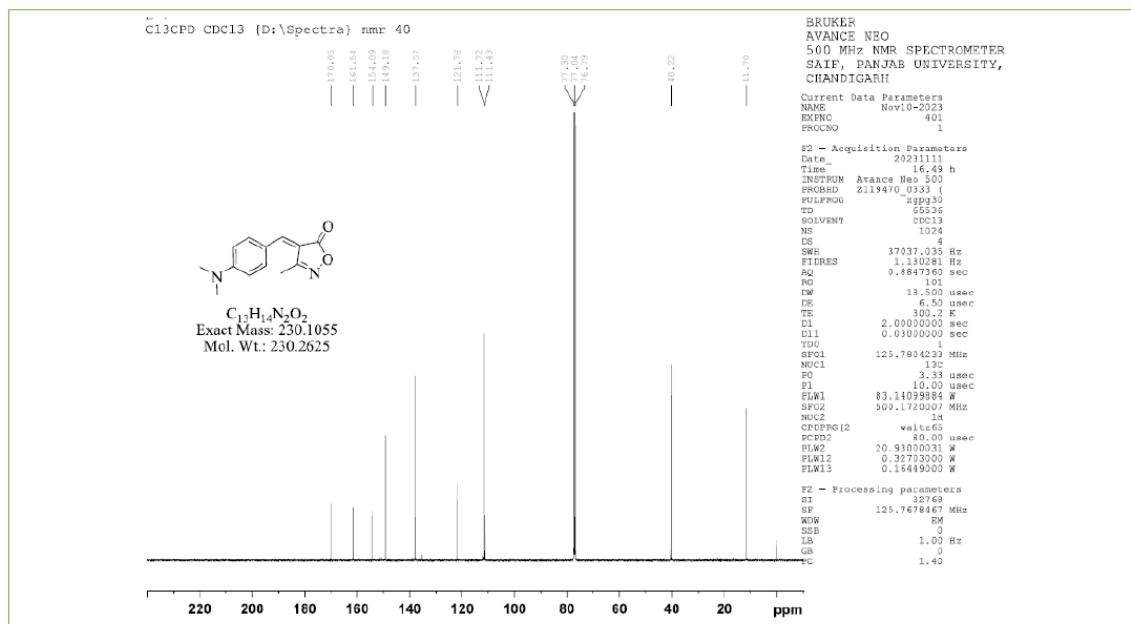


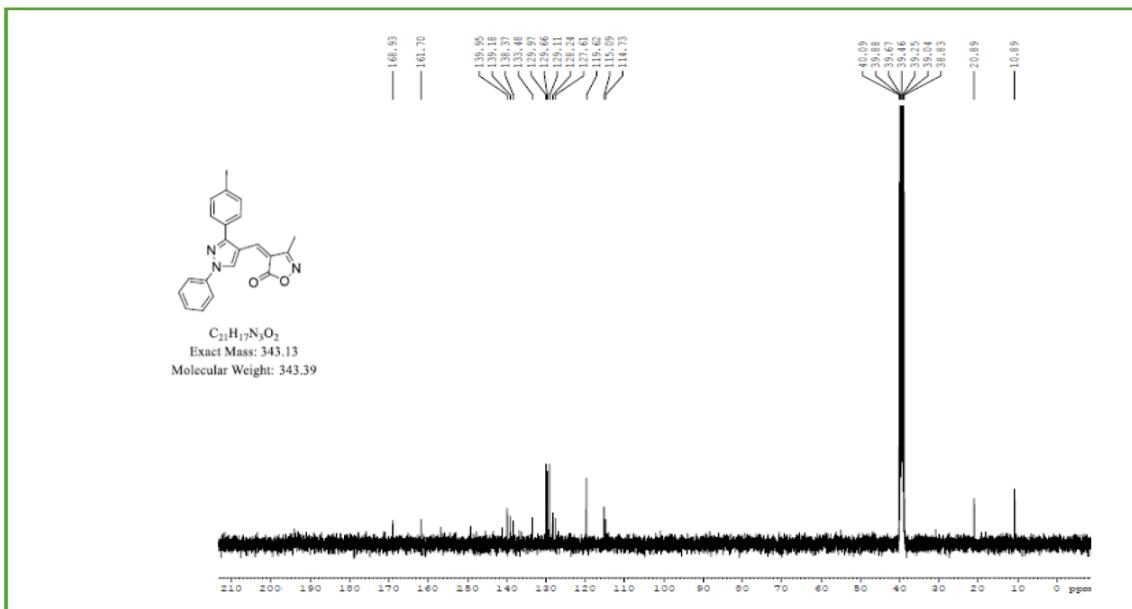
**Figure S9.**  $^{13}\text{C}$  NMR spectrum of Comp-4a



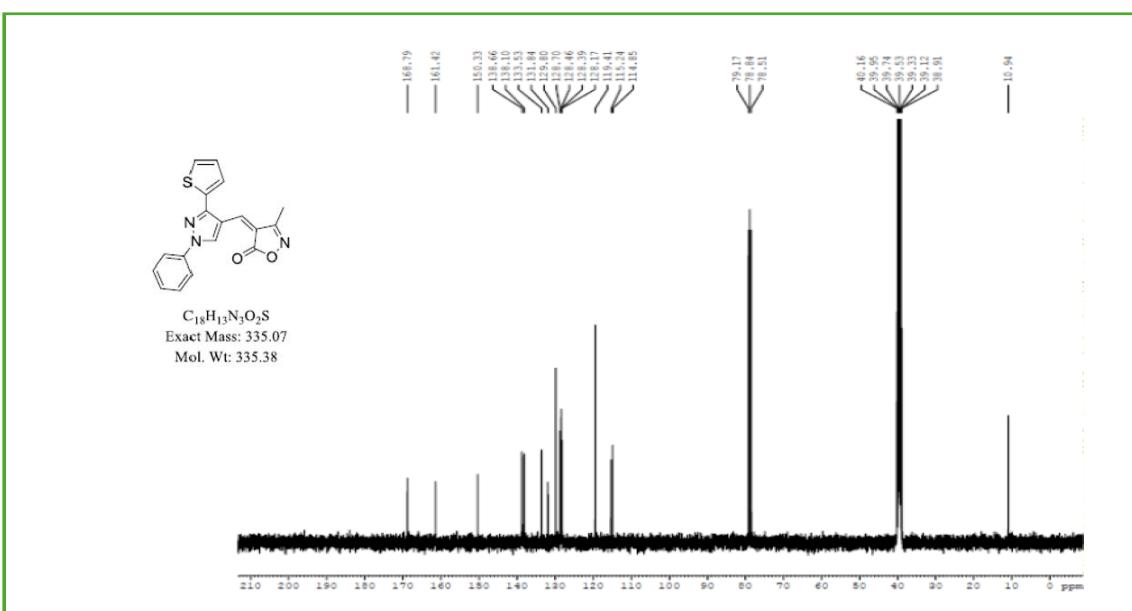
**Figure S10.**  $^{13}\text{C}$  NMR spectrum of Comp-4b

**Figure S11.**  $^{13}\text{C}$  NMR spectrum of Comp-4c**Figure S12.**  $^{13}\text{C}$  NMR spectrum of Comp-4d

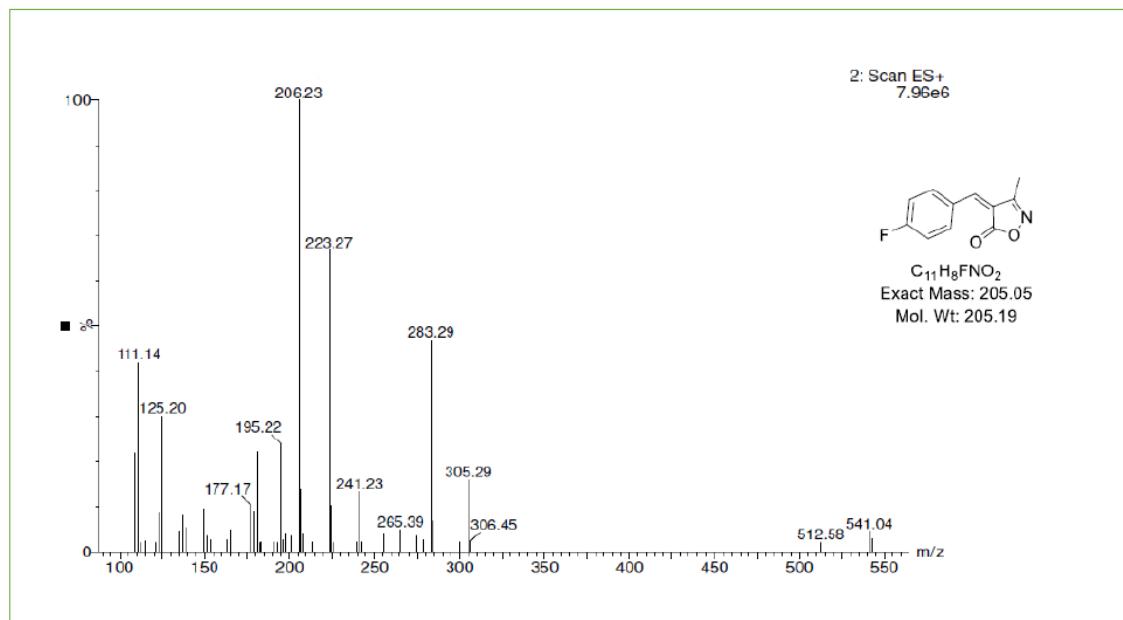
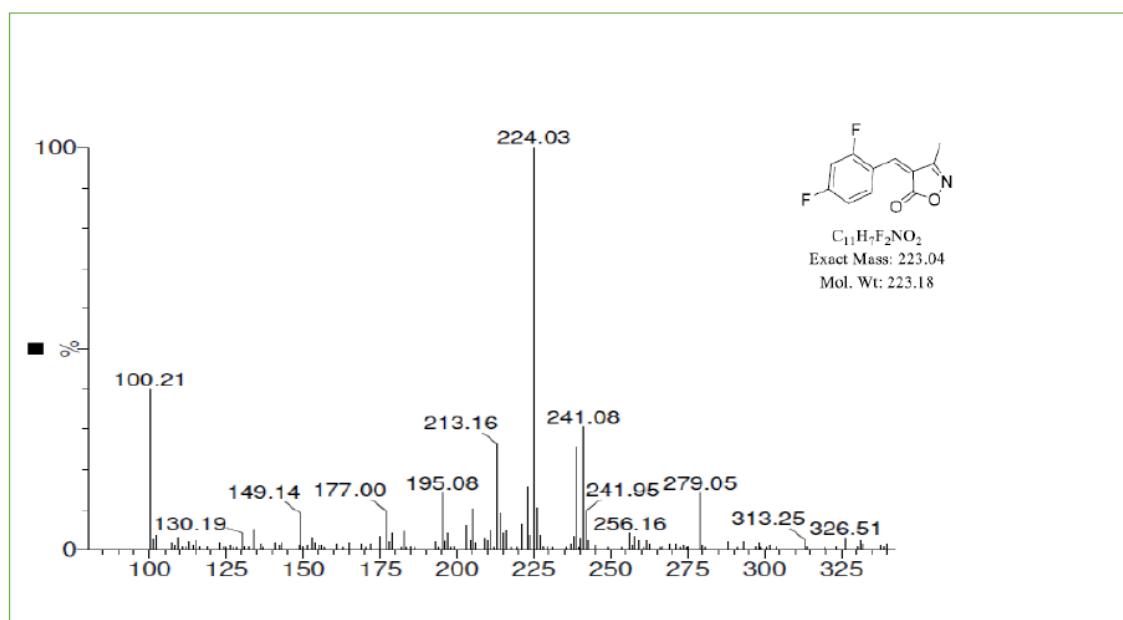
**Figure S13.** <sup>13</sup>C NMR spectrum of Comp-4e**Figure S14.** <sup>13</sup>C NMR spectrum of Comp-4f

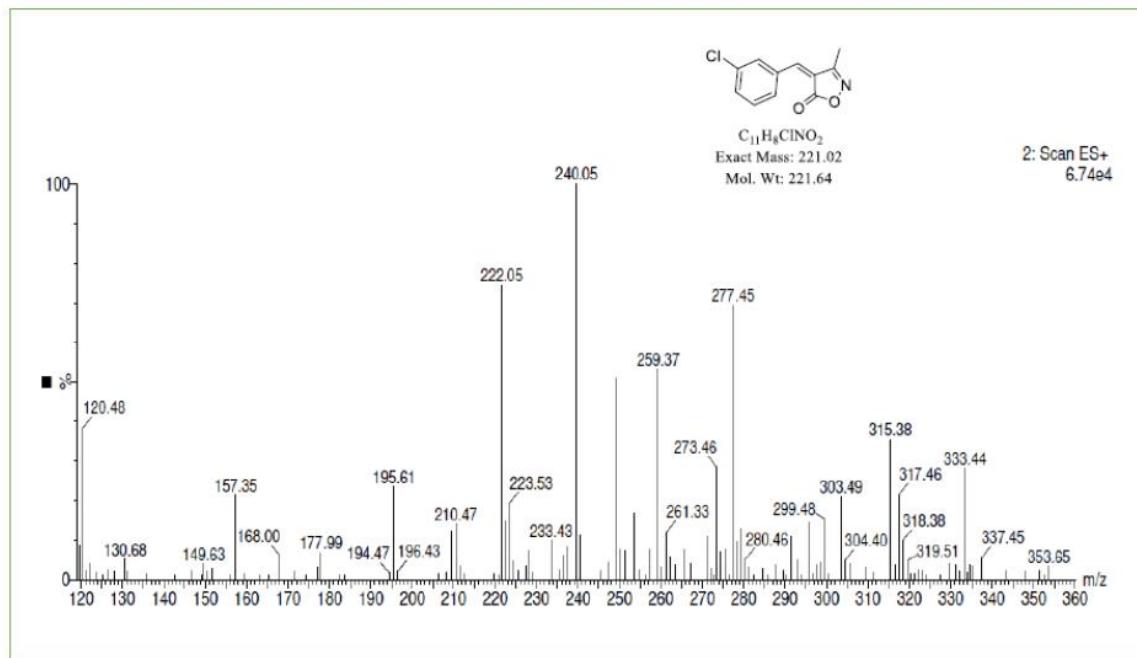
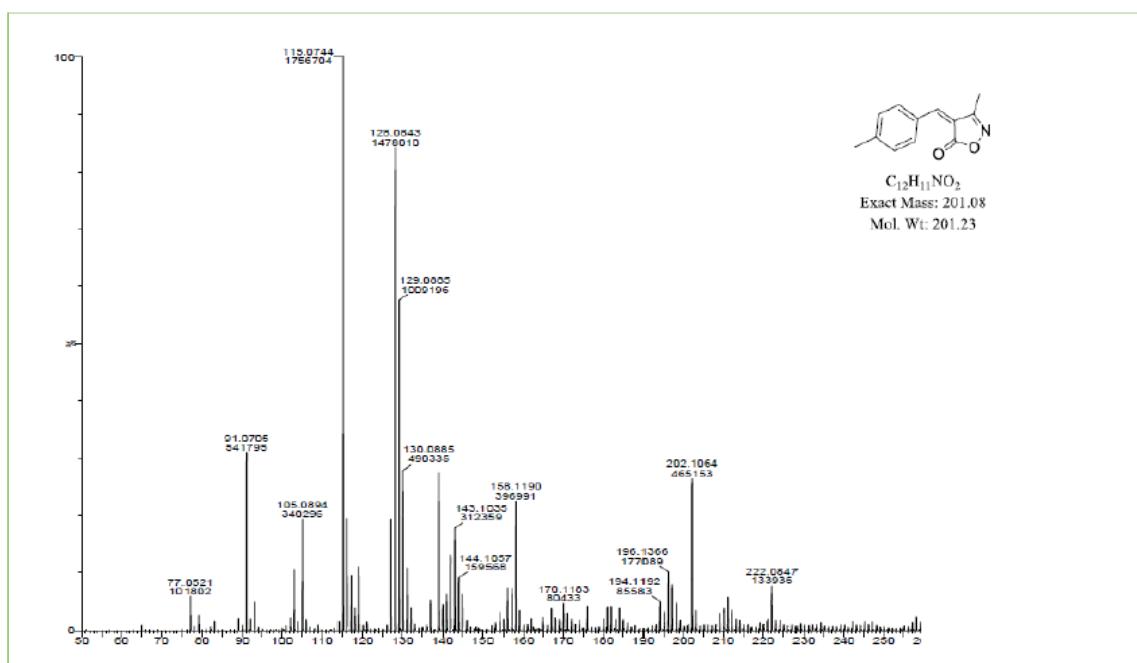


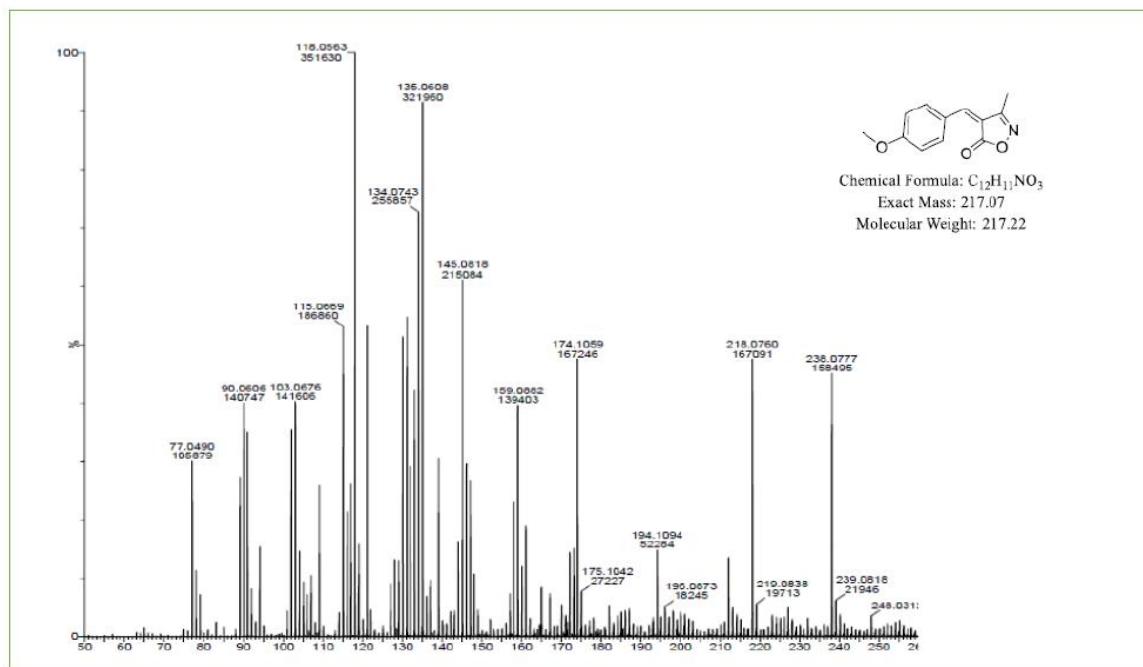
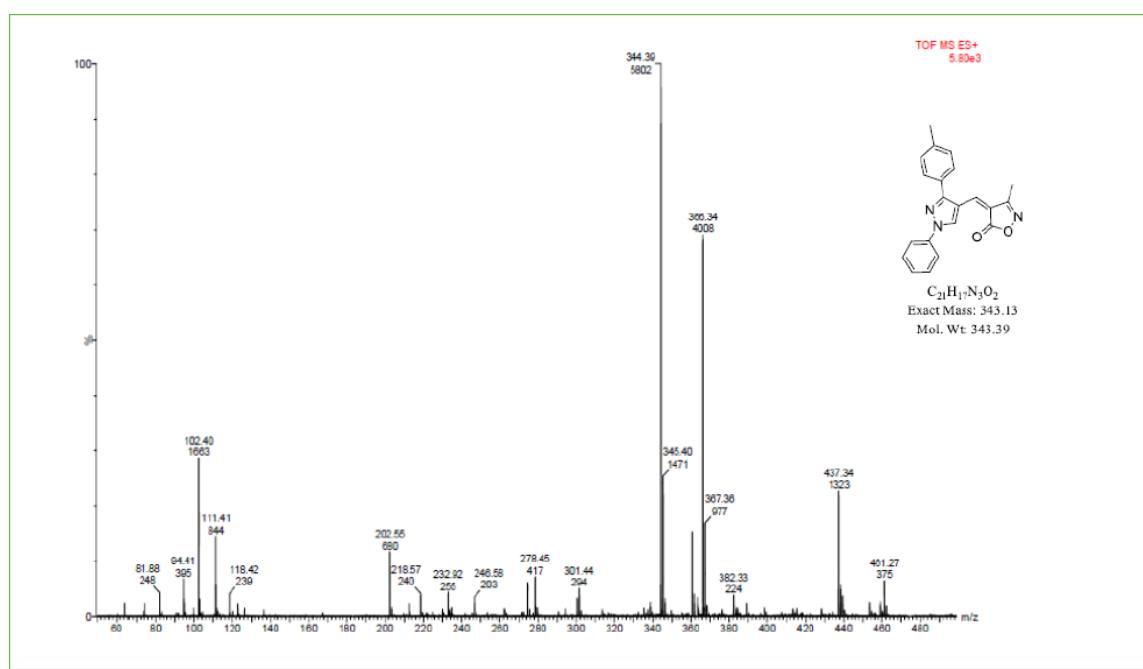
**Figure S15.**  $^{13}\text{C}$  NMR spectrum of Comp-4g

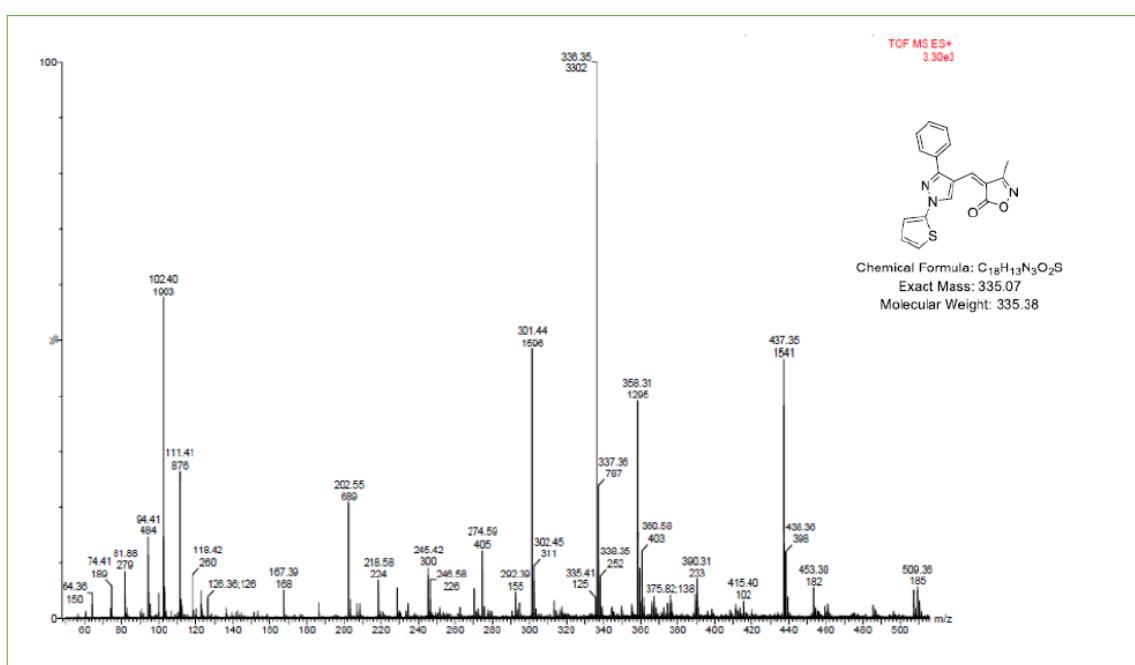


**Figure S16.**  $^{13}\text{C}$  NMR spectrum of Comp-4h

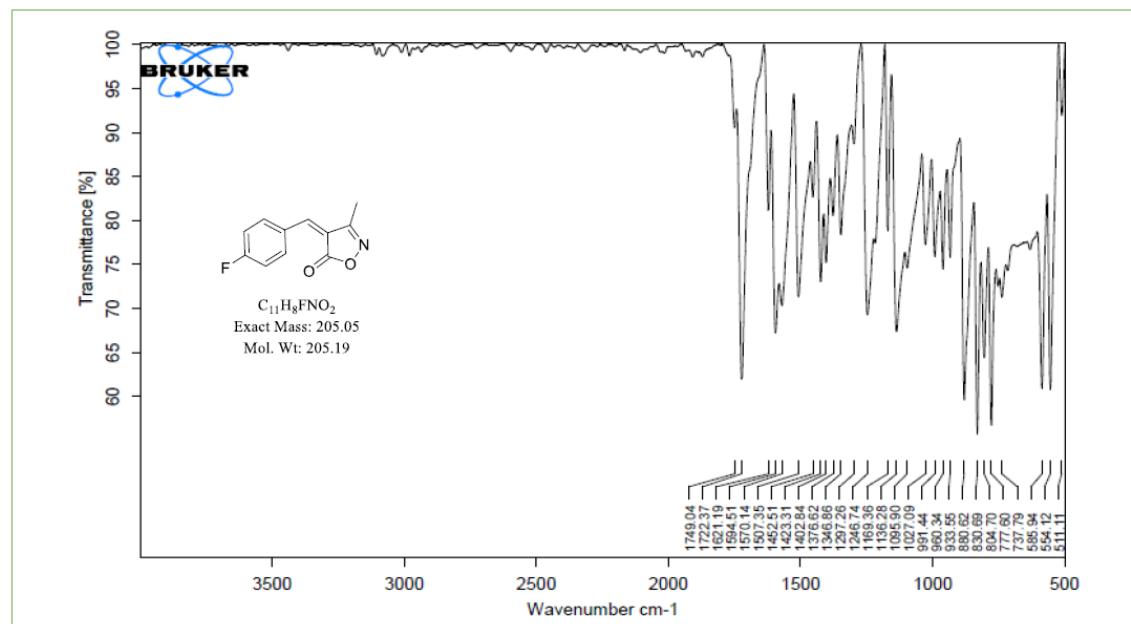
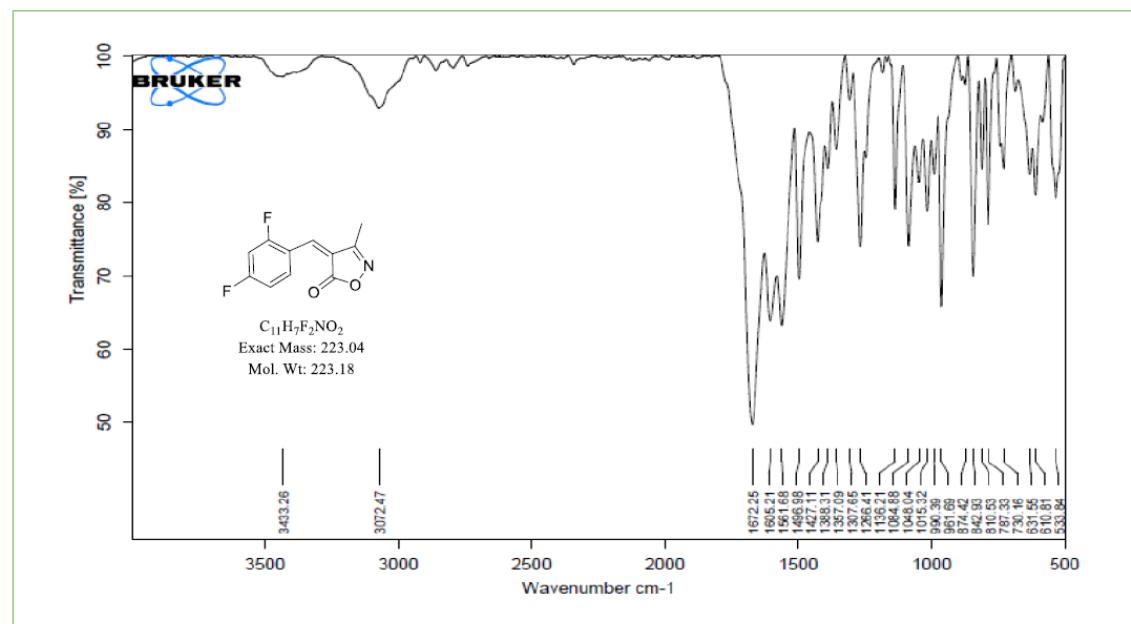
**Mass spectra of synthesized compound****Figure S17.** Mass spectra of Comp-4a**Figure S18.** Mass spectra of Comp-4b

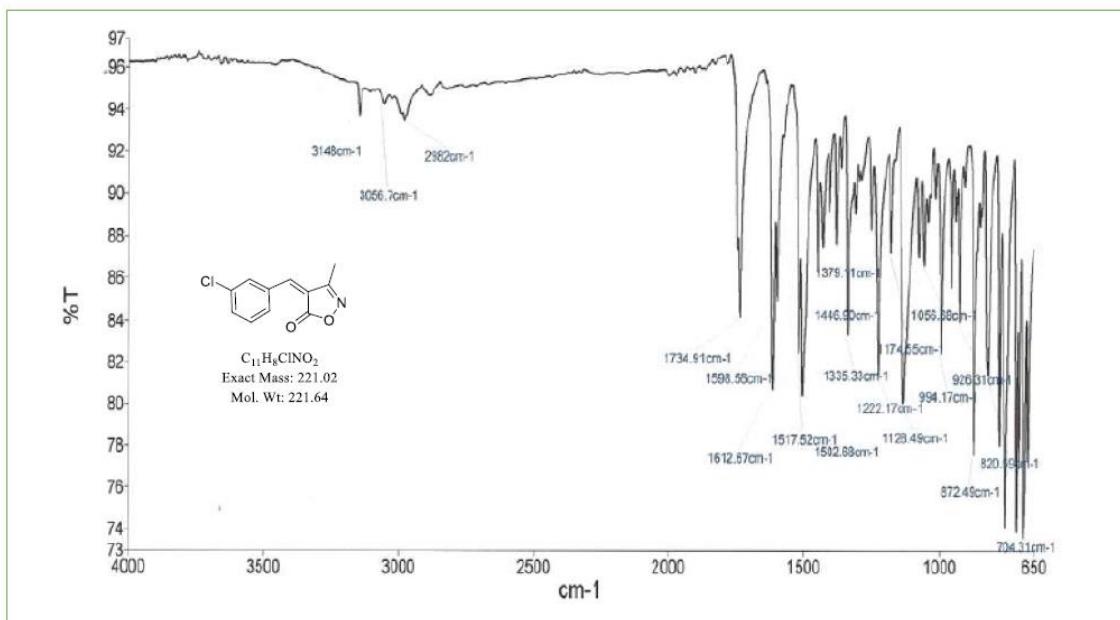
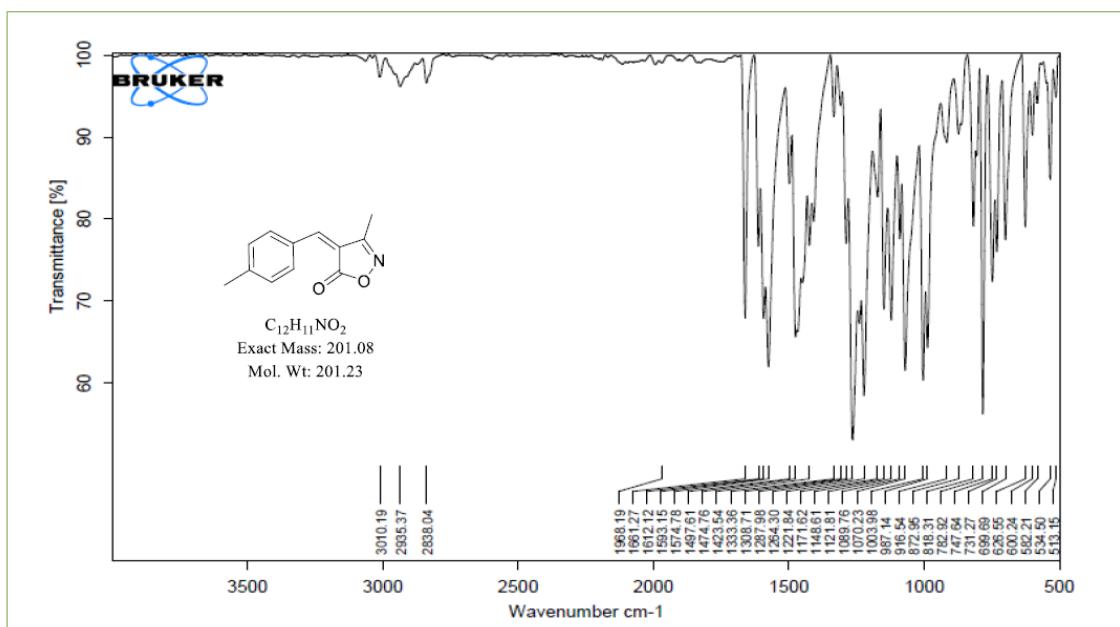
**Figure S19.** Mass spectra of Comp-4c**Figure S20.** Mass spectra of Comp-4d

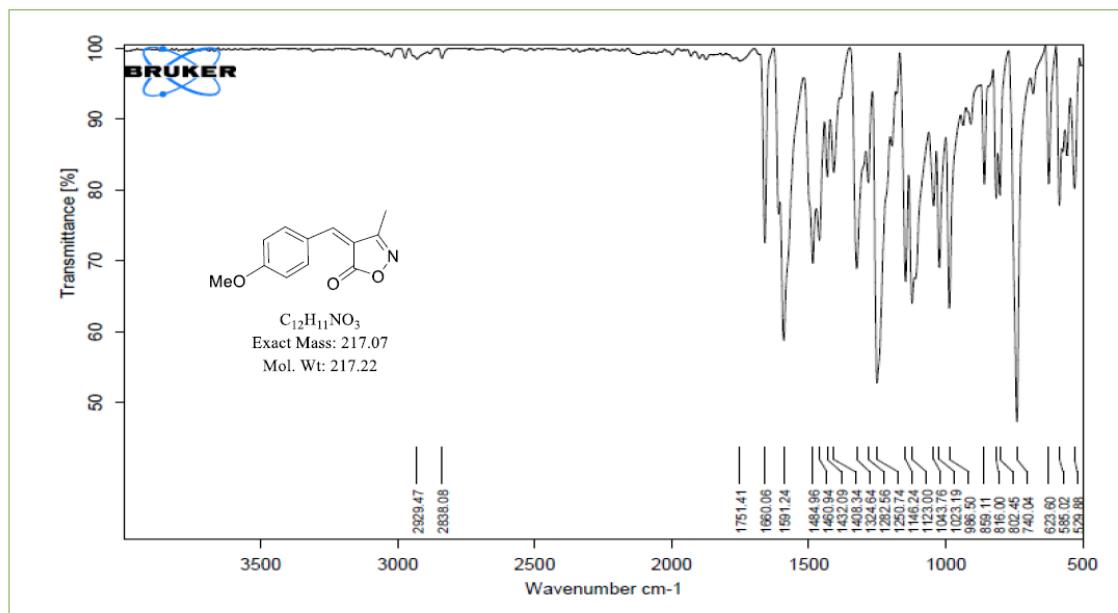
**Figure S21.** Mass spectra of Comp-4e**Figure S22.** Mass spectra of Comp-4g



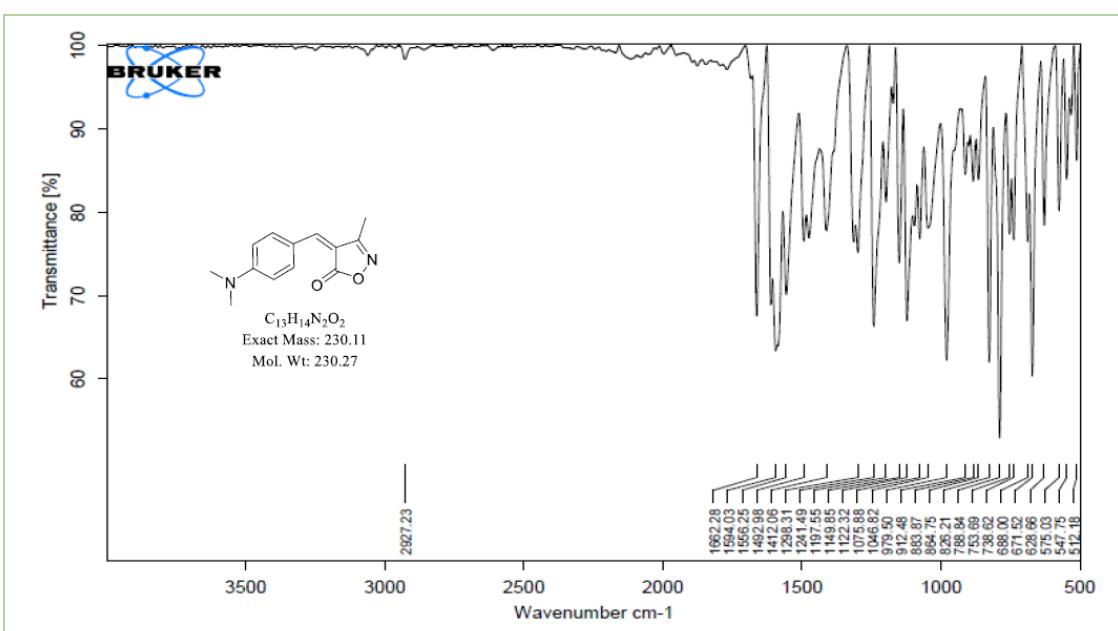
**Figure S23.** Mass spectra of Comp-4h

**IR spectra of synthesized compound****Figure S24.** IR spectrum of Comp-4a**Figure S25.** IR spectrum of Comp-4b

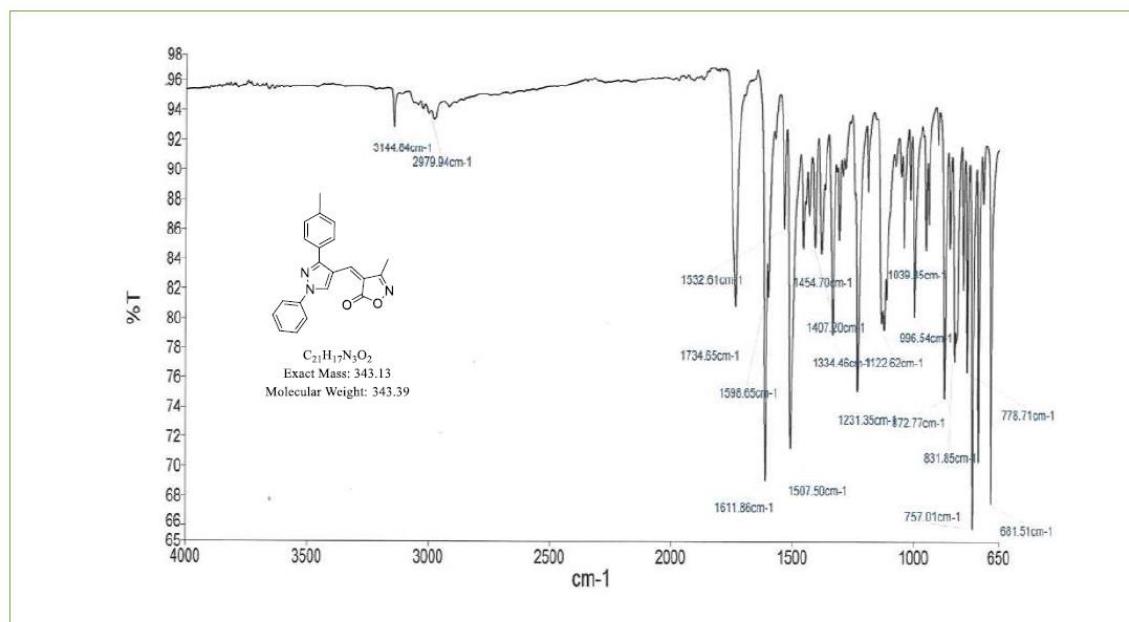
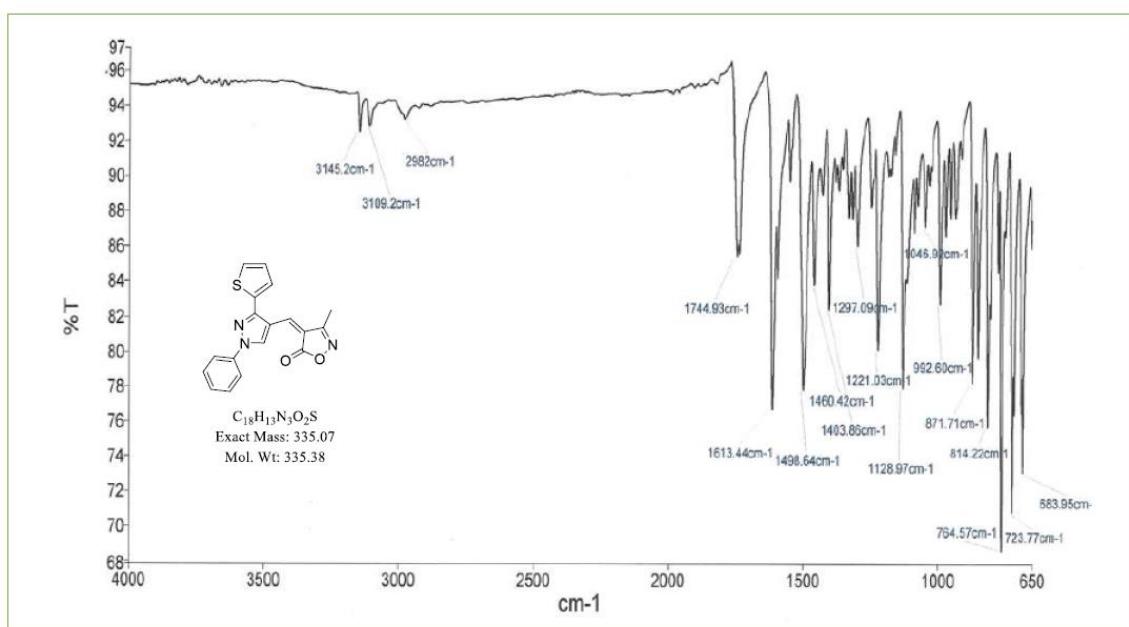
**Figure S26.** IR spectrum of Comp-4c**Figure S27.** IR spectrum of Comp-4d



**Figure S28.** IR spectrum of Comp-4e



**Figure S29.** IR spectrum of Comp-4f

**Figure S30.** IR spectrum of Comp-4g**Figure S31.** IR spectrum of Comp-4h