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## Supporting information

## Facile Synthesis of Antimalarial 1,2-Disubstituted 4-Quinolones from 1,3-Bisaryl-monothio-1,3-diketones

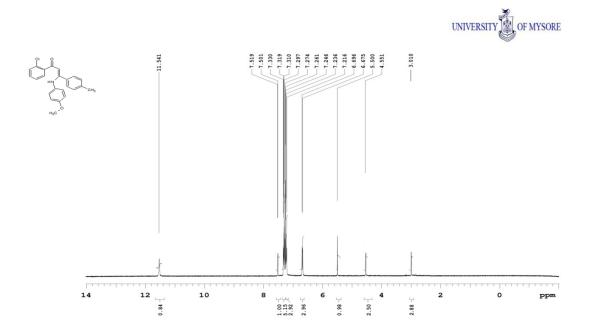
Ajjampura C. Vinayaka,<sup>a</sup> Maralinganadoddi P. Sadashiva,\*,a,b Xianzhu Wu,<sup>b</sup> Sergei Biryukov,<sup>c</sup> Jose' A. Stoute,<sup>c</sup> Kanchugarakoppal S. Rangappa,<sup>a</sup> D. Channe Gowda\*,b

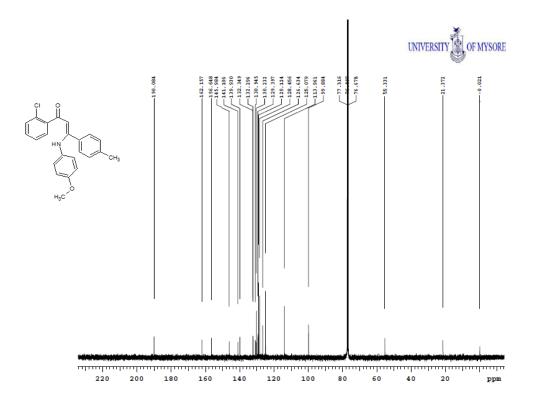
gowda@psu.edu; mpsadashiva@gmail.com

## <sup>1</sup>H and 13C NMR Spectrum.

- Figure S1 <sup>1</sup>H and <sup>13</sup>C NMR spectra of 3-(*NN*-dimethylamino) phenyl-3-[(4-chlorobenzyl) amino]-1-(2,5-dichlorolphenyl) prop-2-en-1-one
- Figure S2 <sup>1</sup>H and <sup>13</sup>C NMR spectra of 1-(2-chlorophenyl)-3-[(4-methoxyphenyl) amino]-3-(4-methylphenyl) prop-2-en-1-one
- Figure S3 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4a**
- Figure S4 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4b**
- Figure S5 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4c**
- Figure S6 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4d**
- Figure S7 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4e**
- Figure S8 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4f**
- Figure S9 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4g**
- Figure S10 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4h**
- Figure S11 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4i**
- Figure S12 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4**j
- Figure S13 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4k**
- Figure S14 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **41**
- Figure S15 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4m**
- Figure S16 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4n**
- Figure S17 <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **40**

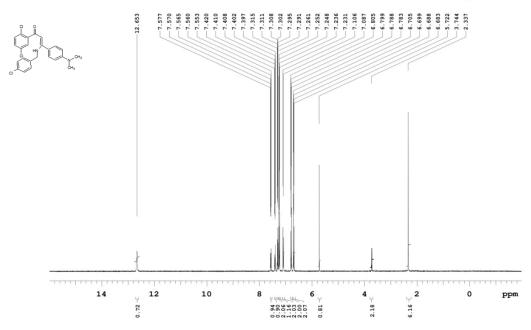
<sup>&</sup>lt;sup>a</sup>Department of Studies in Chemistry, University of Mysore, Manasagangothri, Mysore 570006, India <sup>b</sup>Department of Biochemistry and Molecular Biology, <sup>c</sup>Department of Microbiology and Immunology, Pennsylvania State University College of Medicine, Hershey, PA 17033, USA

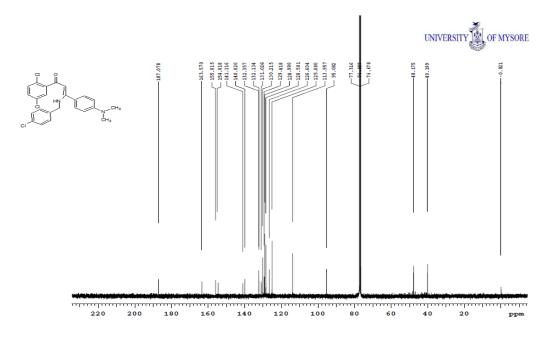




 $\label{eq:Figure S1.1} \textbf{Figure S1}. \ ^{1}\textbf{H NMR and } ^{13}\textbf{C spectra of 1-(2-chlorophenyl)-3-[(4-methoxyphenyl)amino]-3-(4-methylphenyl)prop-2-en-1-one}$ 







**Figure S2**. <sup>1</sup>H and <sup>13</sup>C NMR spectra of 3-(*NN*-dimethylamino)phenyl-3-[(4-chlorobenzyl)amino]-1-(2,5-dichlorolphenyl)prop-2-en-1-one

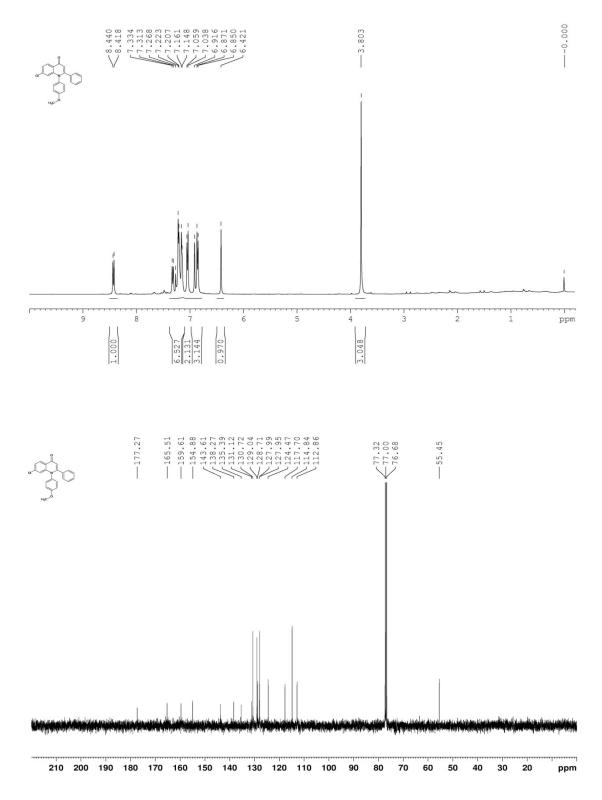


Figure S3.  $^{1}H$  and  $^{13}C$  NMR spectra of compound 4a

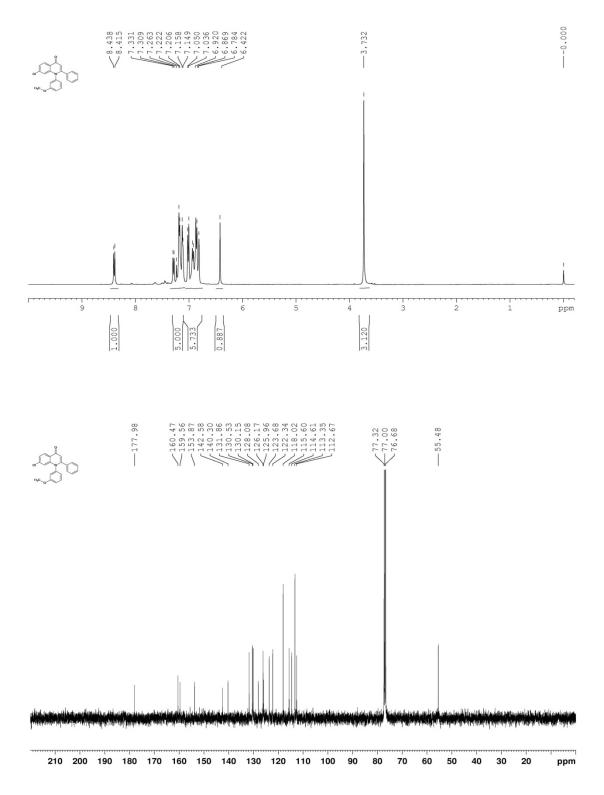


Figure S4. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4b

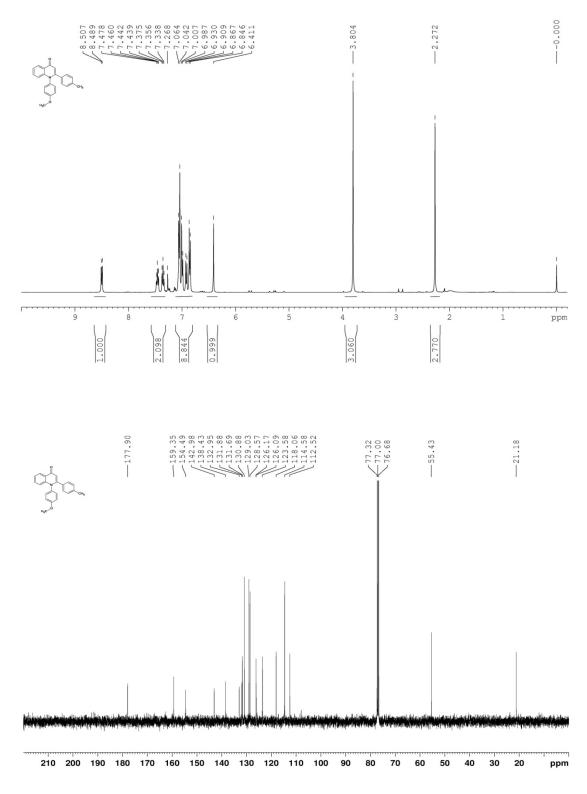


Figure S5.  $^{1}\text{H}$  and  $^{13}\text{C}$  NMR spectra of compound 4c

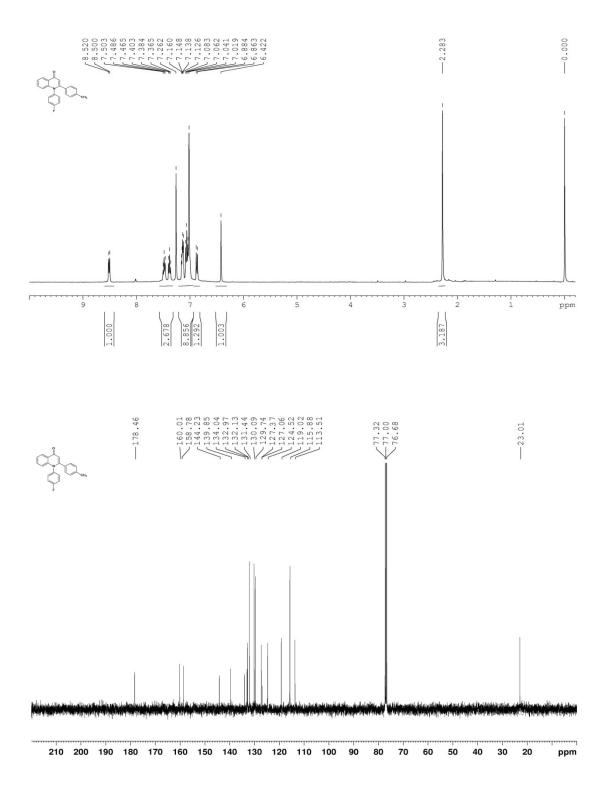


Figure S6. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4d** 

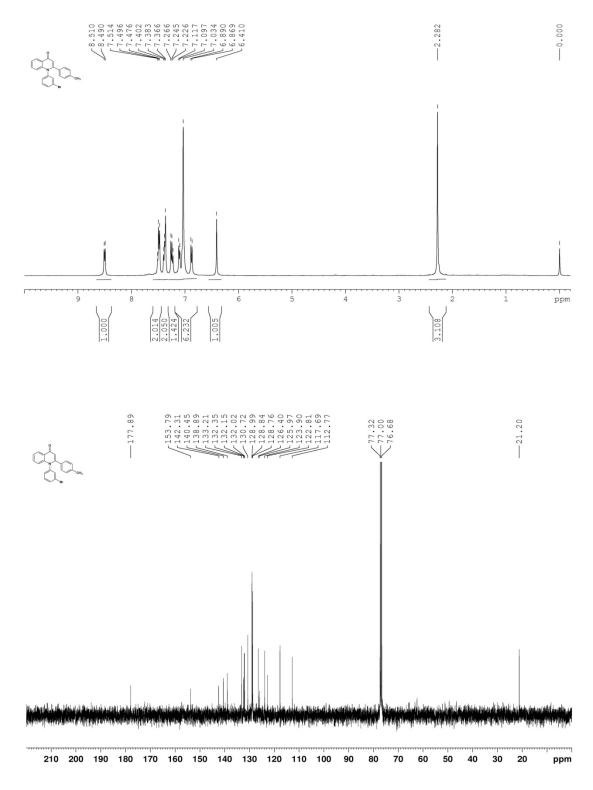


Figure S7. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound **4e** 

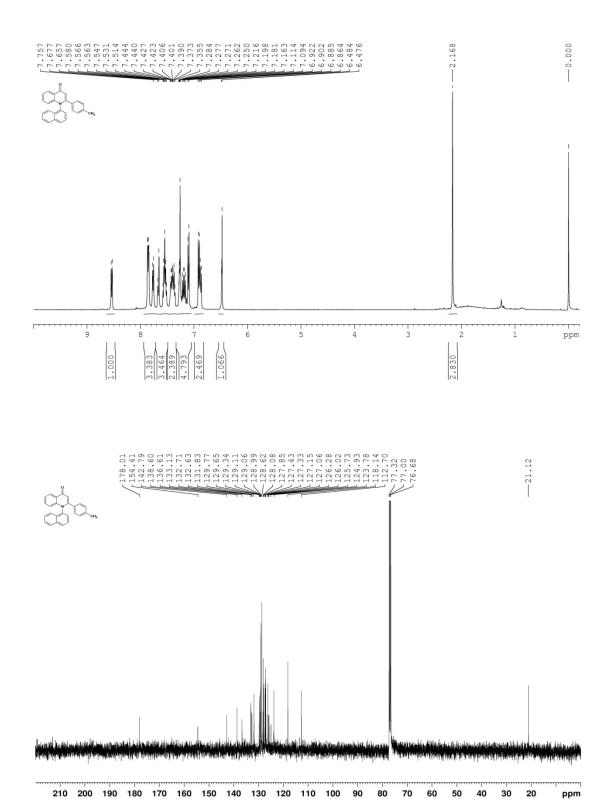


Figure S8. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4f

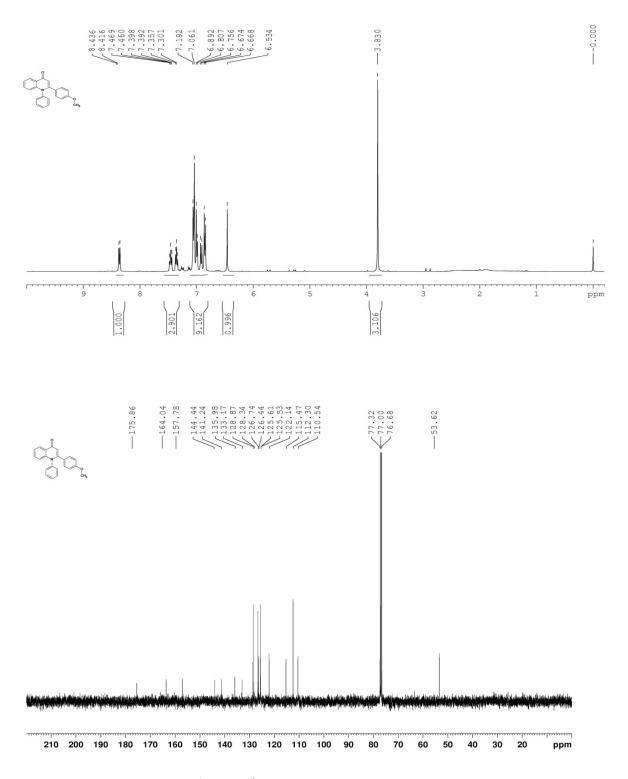


Figure S9. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4g

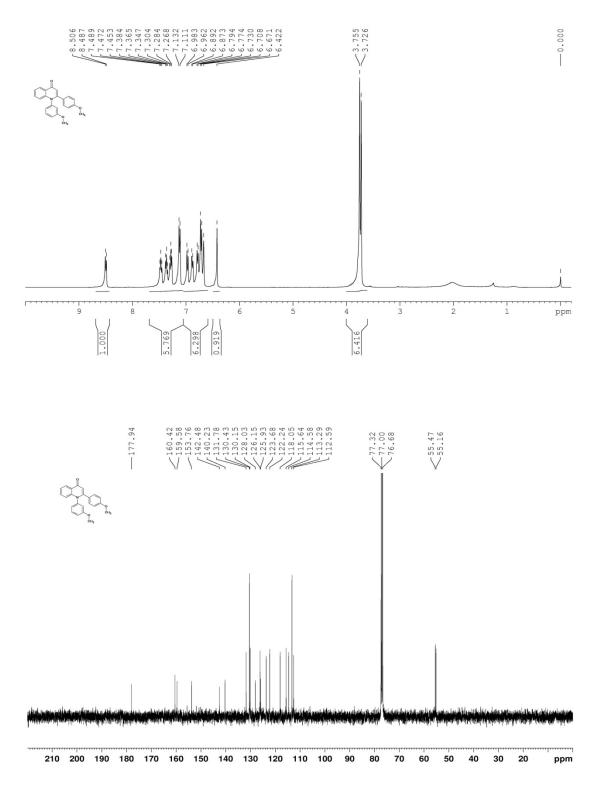


Figure S10.  $^{1}$ H and  $^{13}$ C NMR spectra of compound 4h

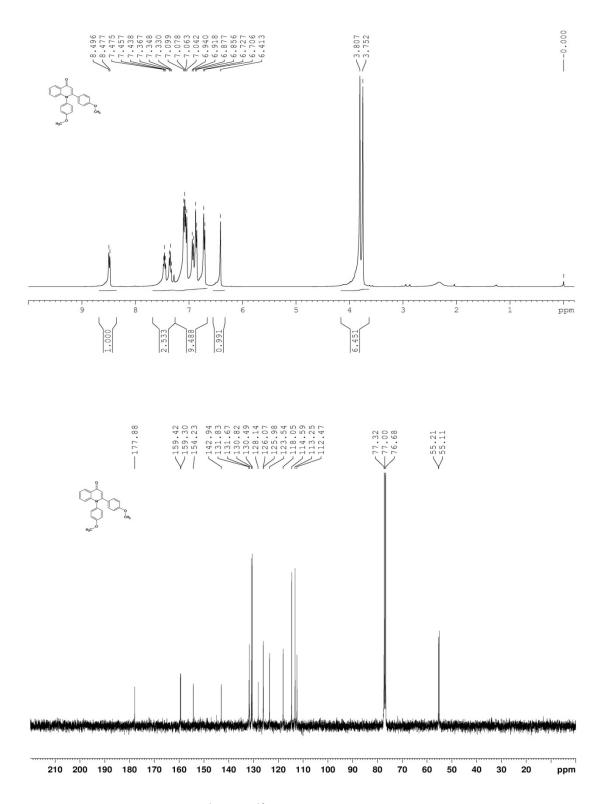


Figure S11. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4i

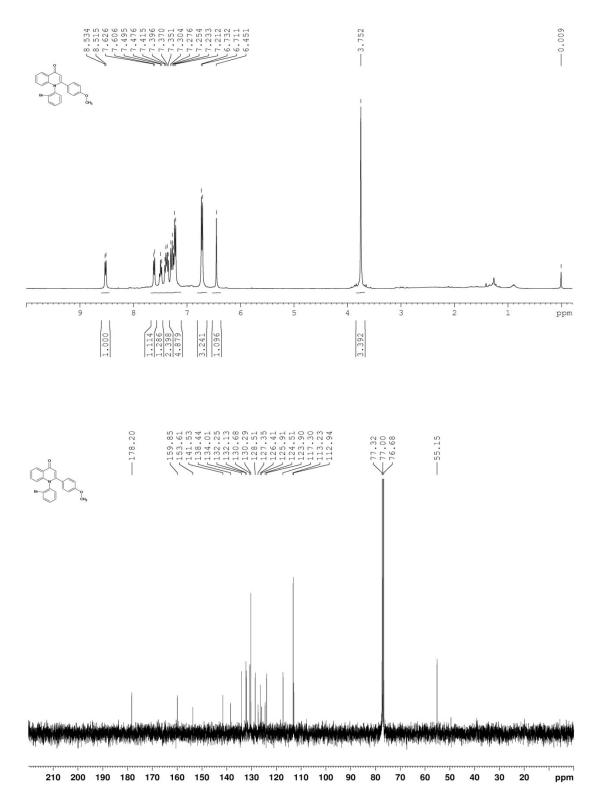
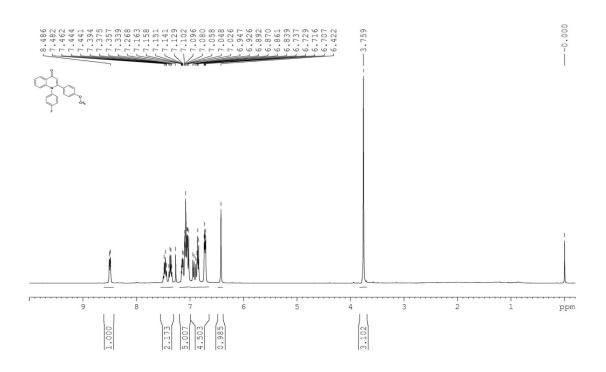


Figure S12. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4j



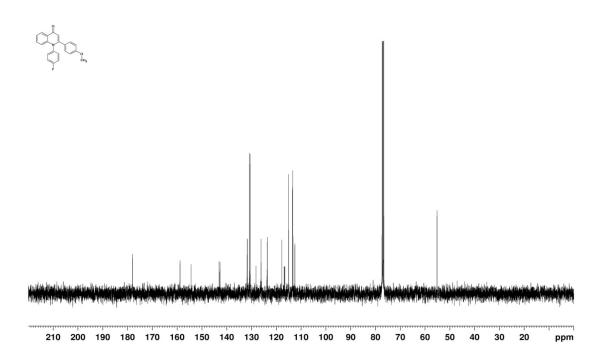


Figure S13.  $^{1}\text{H}$  and  $^{13}\text{C}$  NMR spectrum of compound 4k

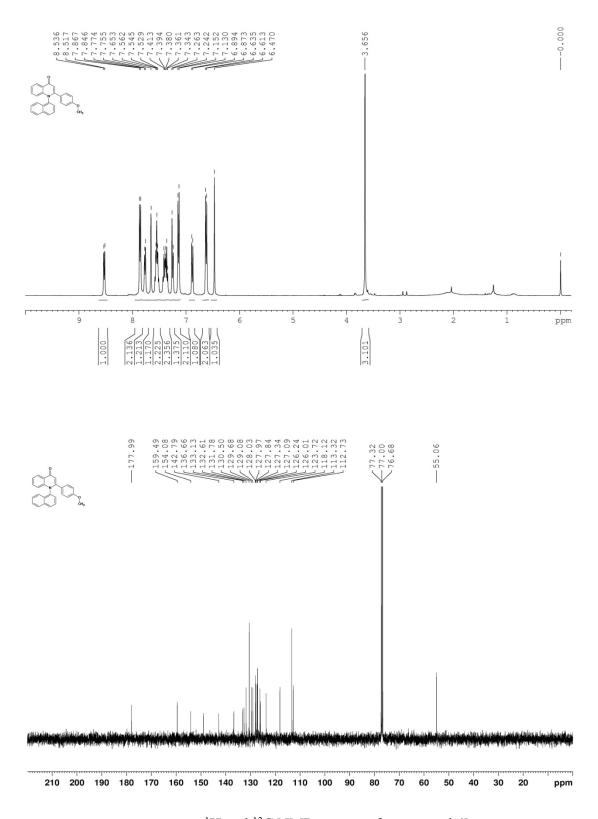


Figure S14.  $^{1}\text{H}$  and  $^{13}\text{C}$  NMR spectra of compound 41

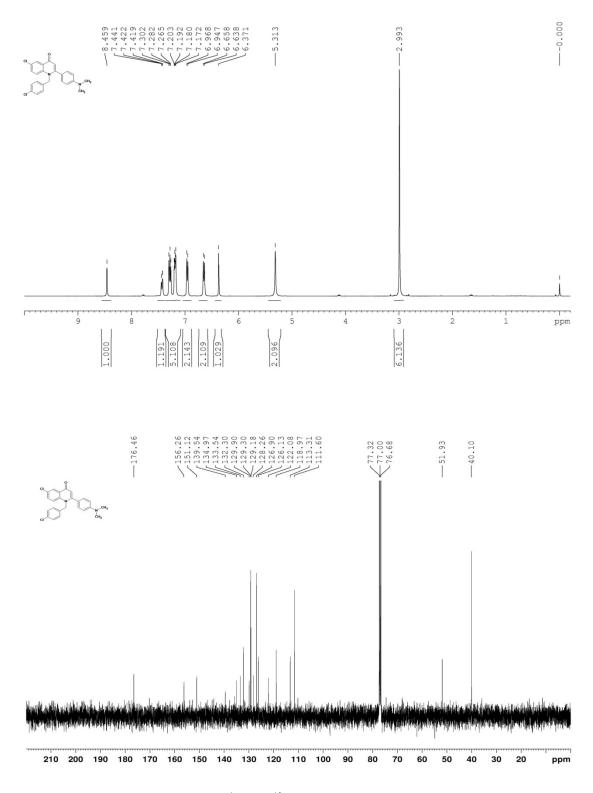


Figure S15. <sup>1</sup>H and <sup>13</sup>C spectra of compound 4m

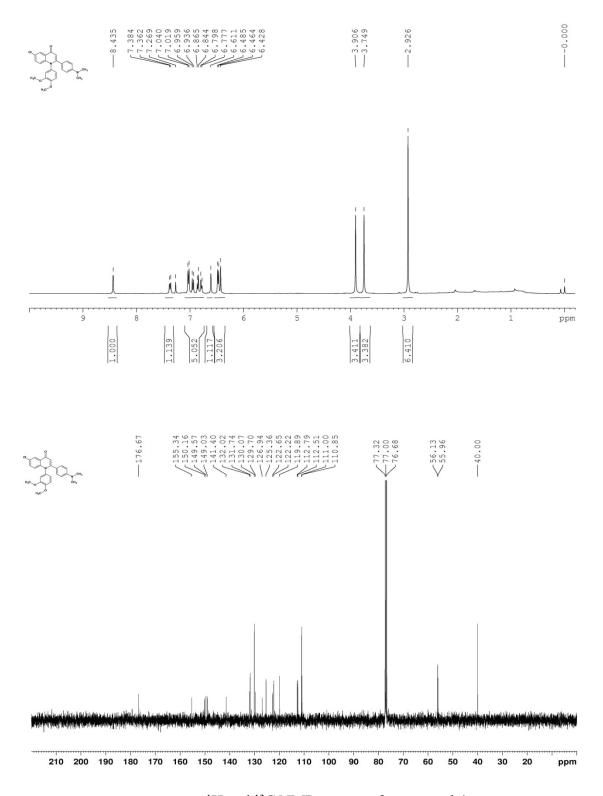
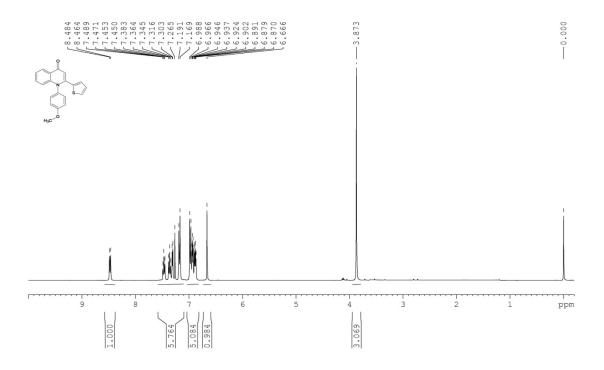


Figure S16. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4n



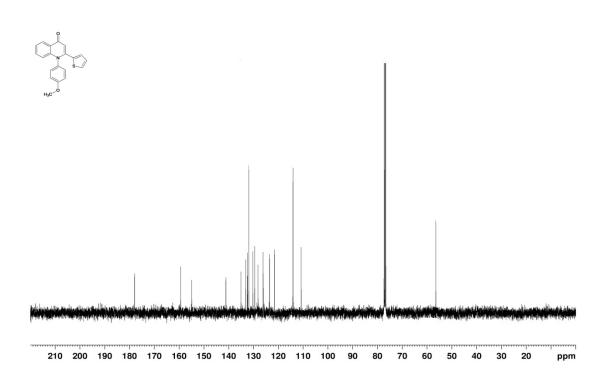


Figure S17. <sup>1</sup>H and <sup>13</sup>C NMR spectra of compound 4o