

Electronic Supplementary Information (ESI) for RSC Advances
This journal is © The Royal Society of Chemistry 2015.

Supporting Information:

I₂-DMSO-PTSA: A simple and metal free oxidative cross coupling of imidazo[1,2-*a*]pyridines and methylketones

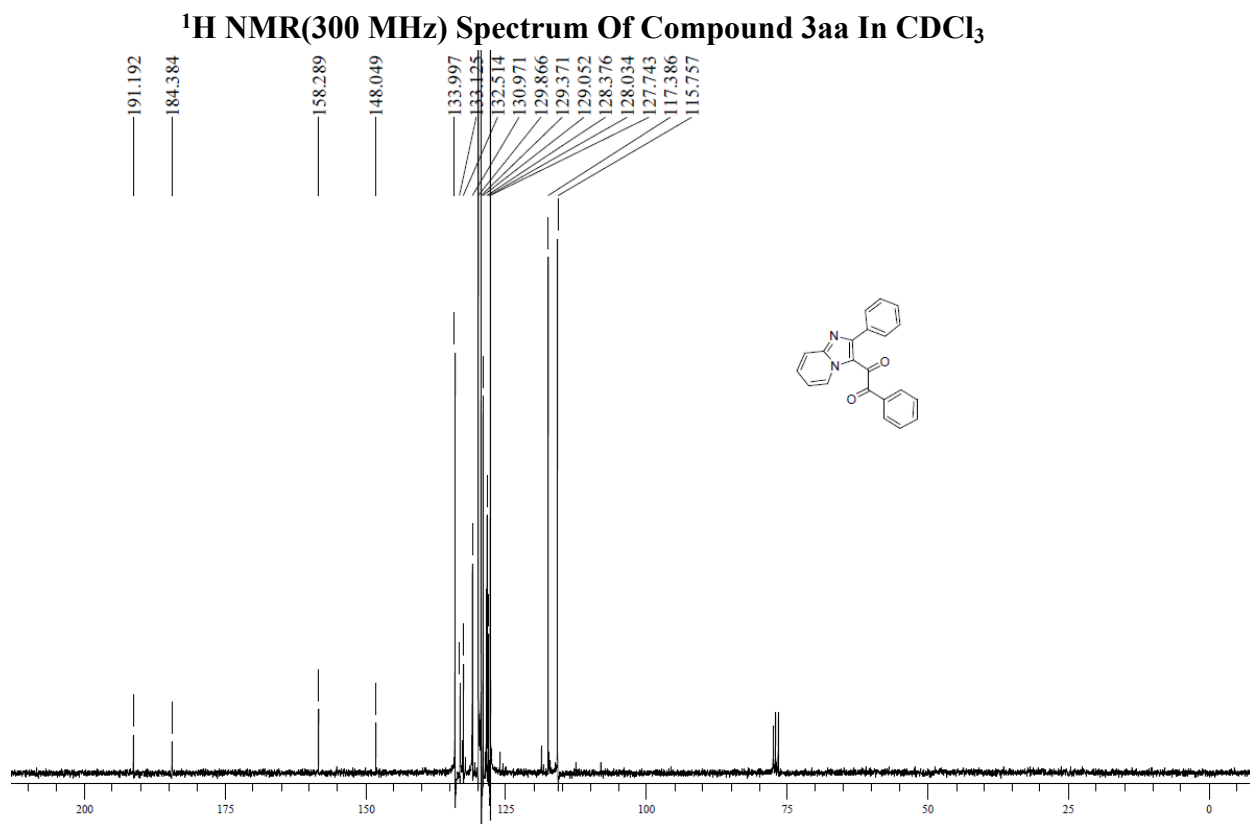
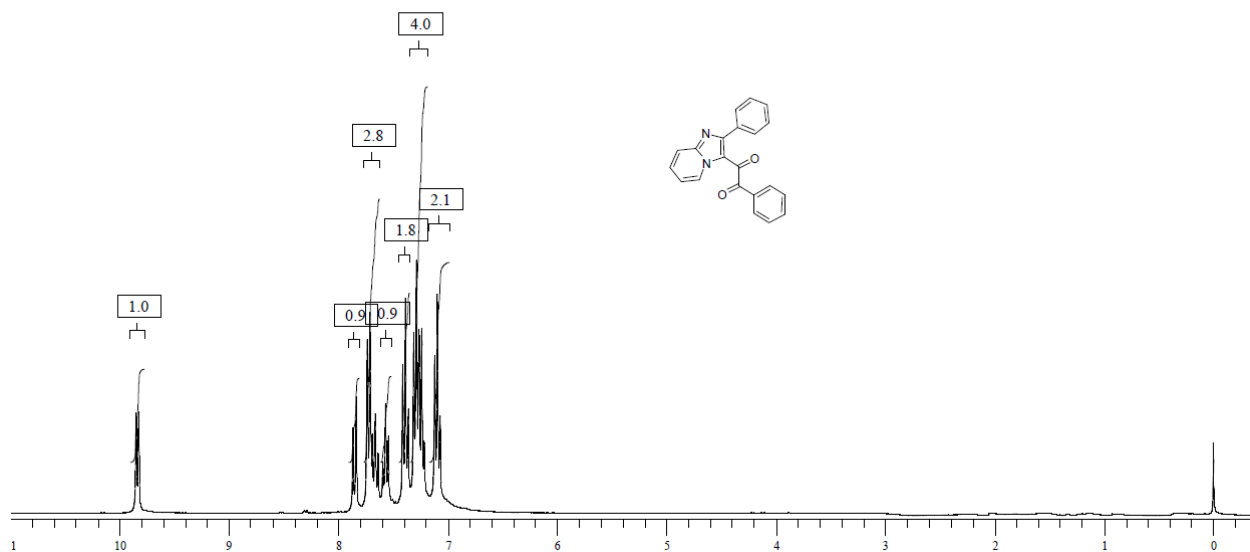
Madhu Chennapuram,^a Narender Reddy Emmadi,^a Chiranjeevi Bingi,^a and Krishnaiah Atmakur^{*a,c}

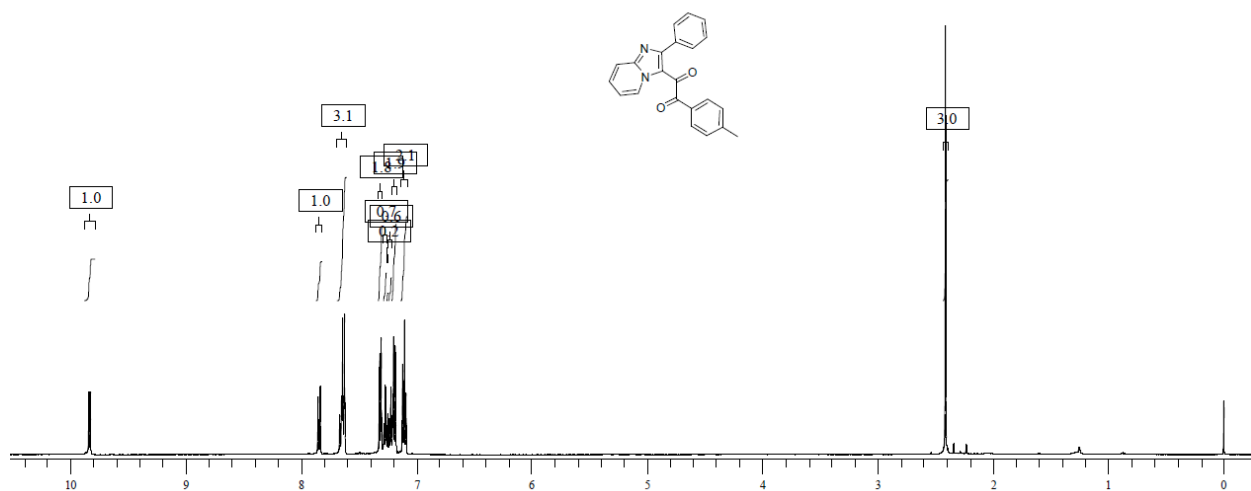
^aDivision of Crop Protection Chemicals, CSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad 500 007, India

^cAcSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad 500 007, India.
E-mail: krishnu@iict.res.in; Fax: +91 40 27193382; Tel: +91 40 27191436.

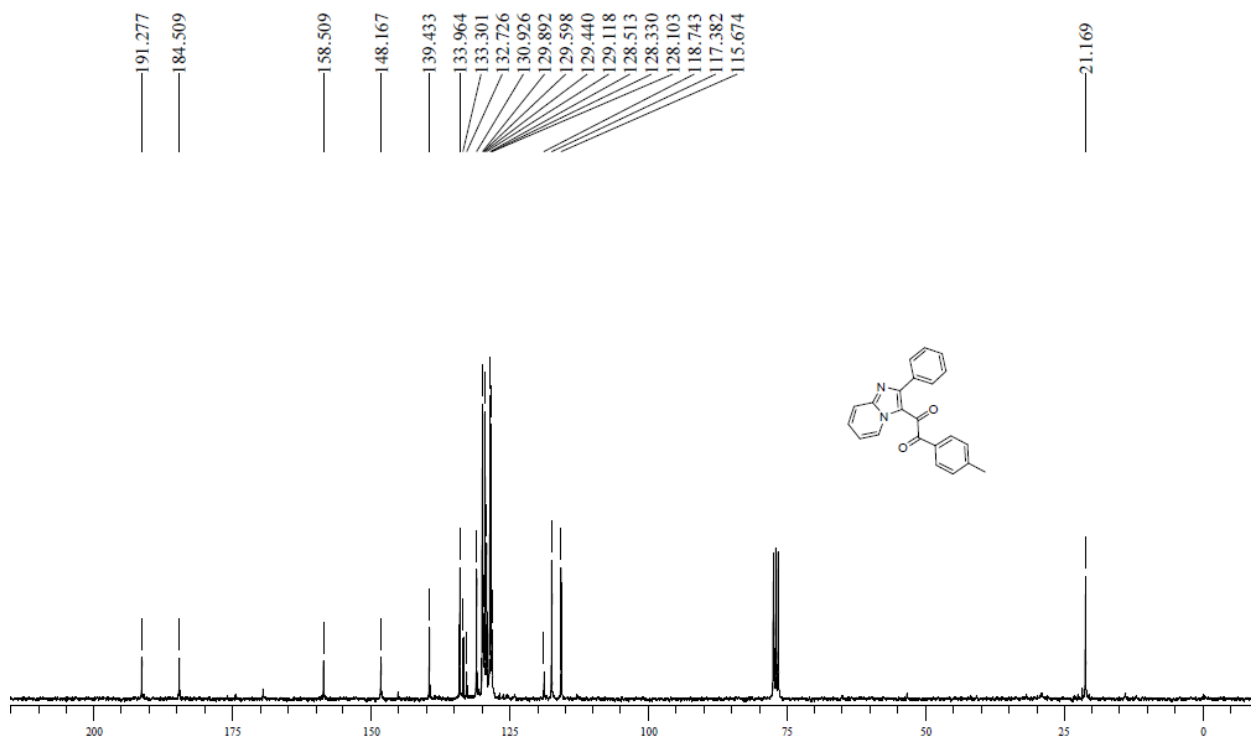
Contents:

- 1) General Experimental information: Melting points were measured by CINTEX programmable melting point apparatus and are uncorrected. ¹H and ¹³C NMR spectra of samples in CDCl₃ and DMSO-d₆ were recorded on AVANCE-300 MHz and 500 MHz spectrometers. Chemical shifts (δ) are reported relative to TMS (δ = 0.0) as the internal standard. Mass spectra were recorded on ESI spectrometers. All high resolution mass spectra were recorded on the QSTARXL Hybrid MS/MS System (Applied Biosystems/MDS Sciex, Foster City, USA), equipped with an ESI source (IICT, Hyderabad). IR were recorded on Thermo Nicolet nexus 670 spectrometer using KBr pellets. TLC was performed on Merck 60 F-254 silica gel plates. The chemicals used in this work were obtained from commercial channels and were used without purification.
- 2) Spectral soft copy ¹H & ¹³C NMR of **3aa-3ap** & **3ba-3ia**.

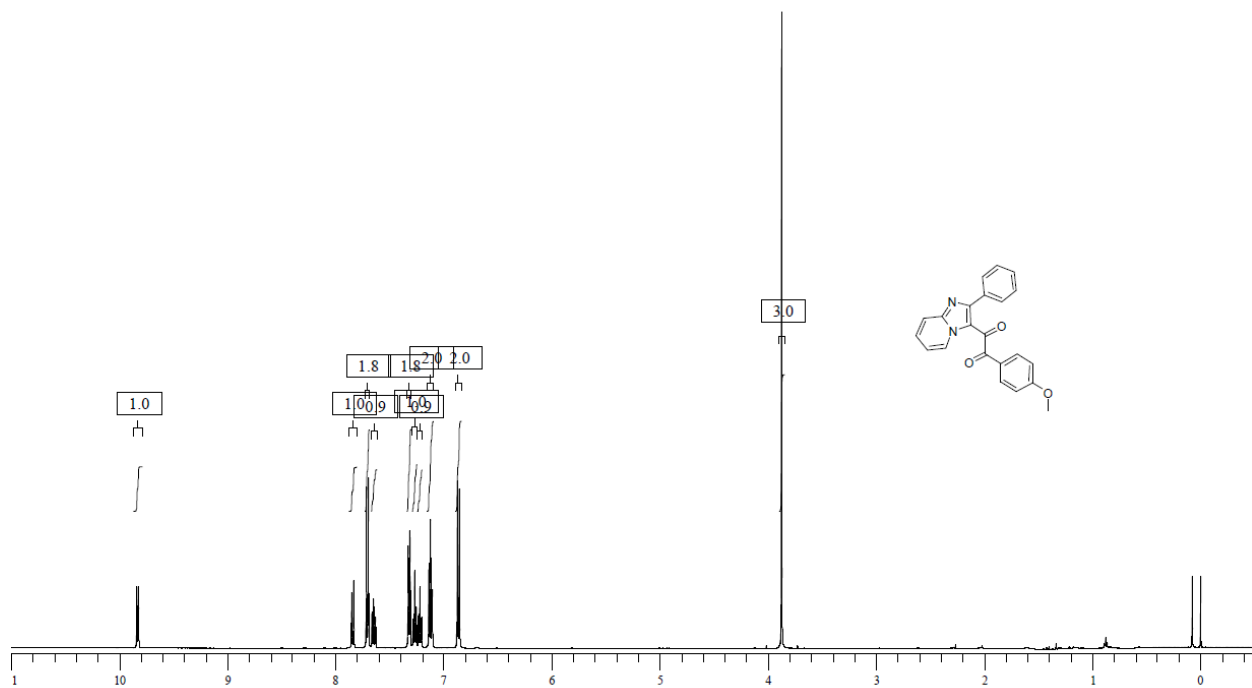




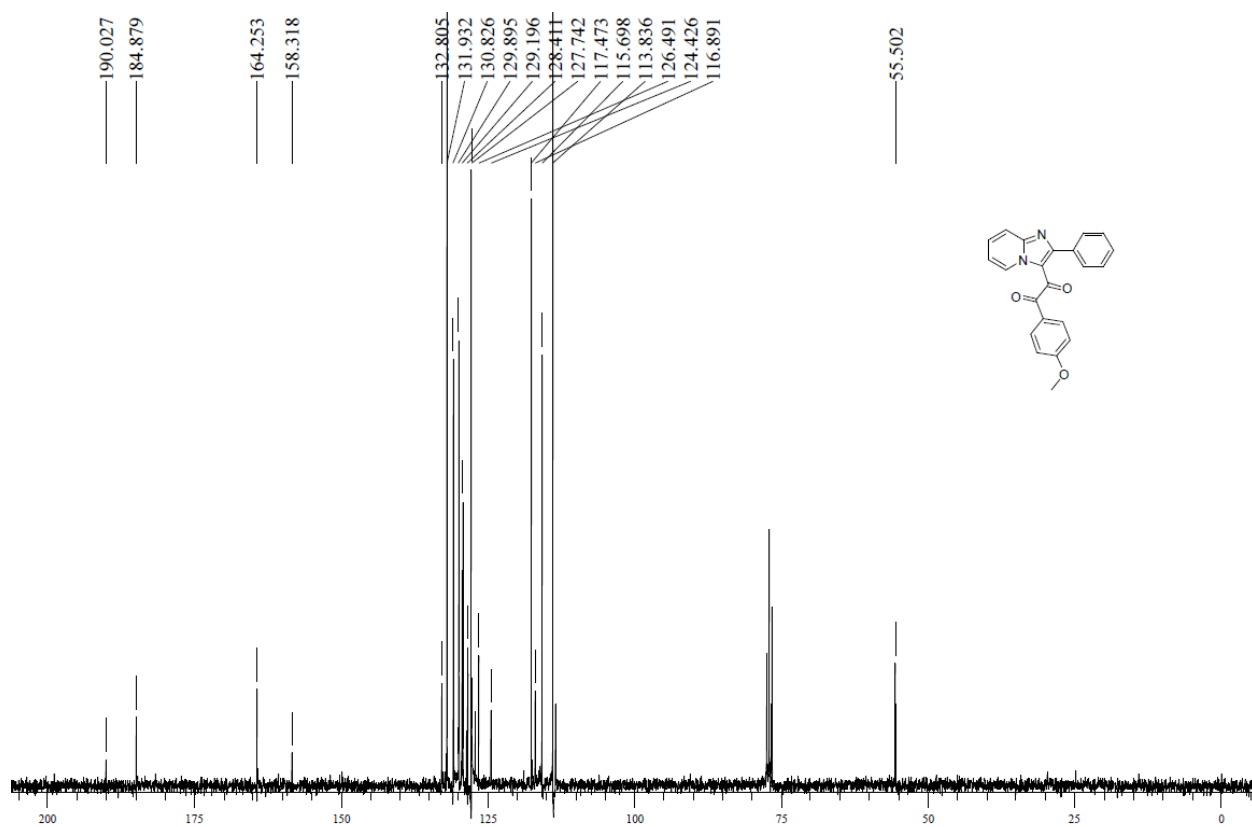
¹H NMR(500 MHz) Spectrum Of Compound 3ab In CDCl₃



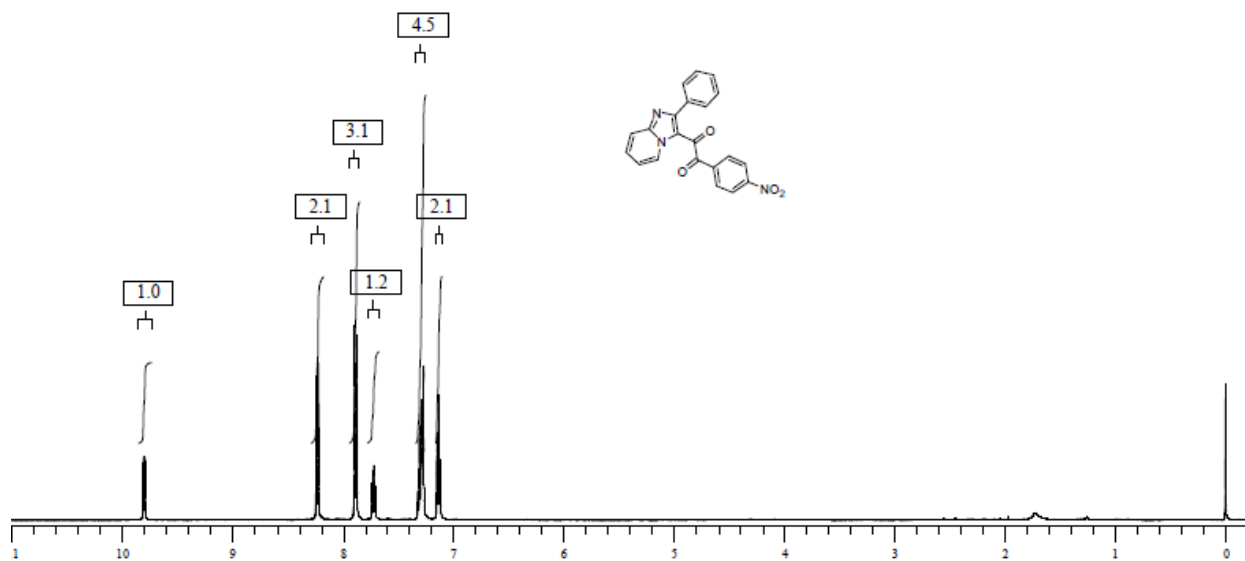
¹³C NMR (125 MHz) Spectrum Of Compound 3ab In CDCl₃



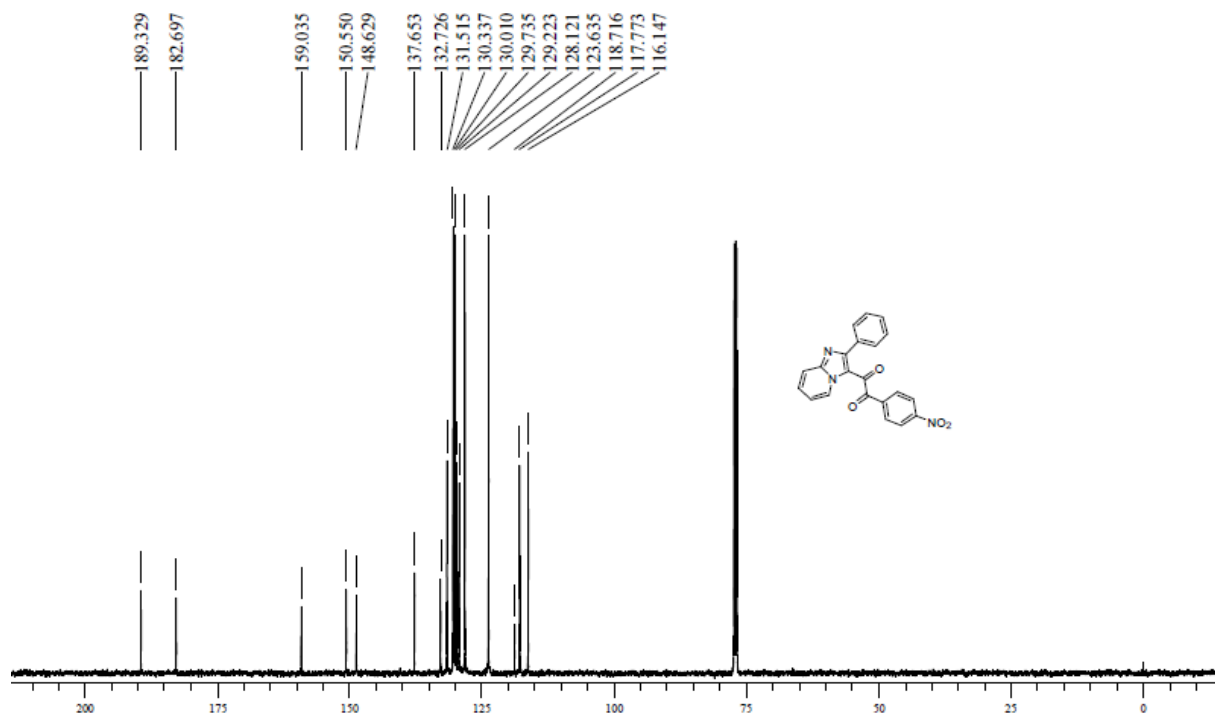
¹H NMR(500 MHz) Spectrum Of Compound 3ac In CDCl₃



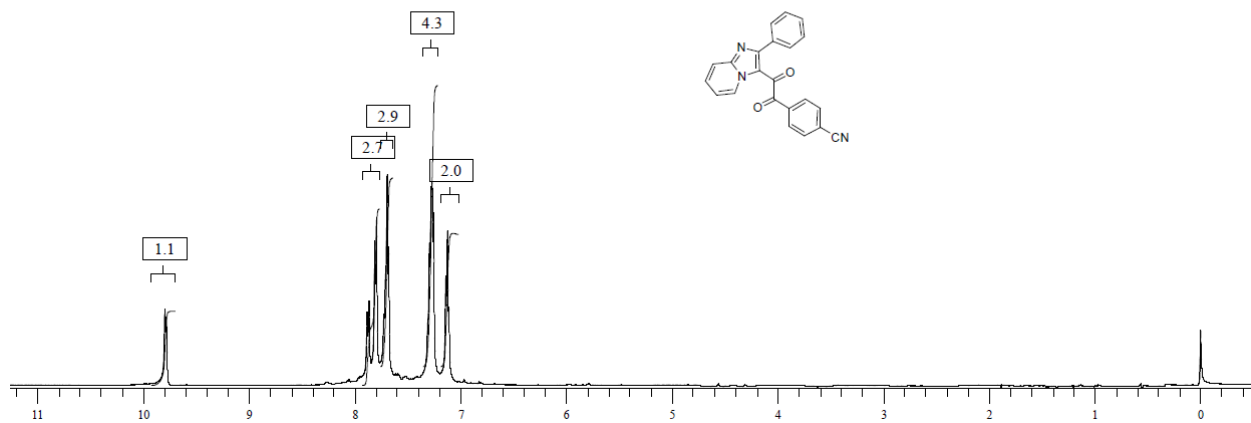
¹³C NMR (125 MHz) Spectrum Of Compound 3ac In CDCl₃



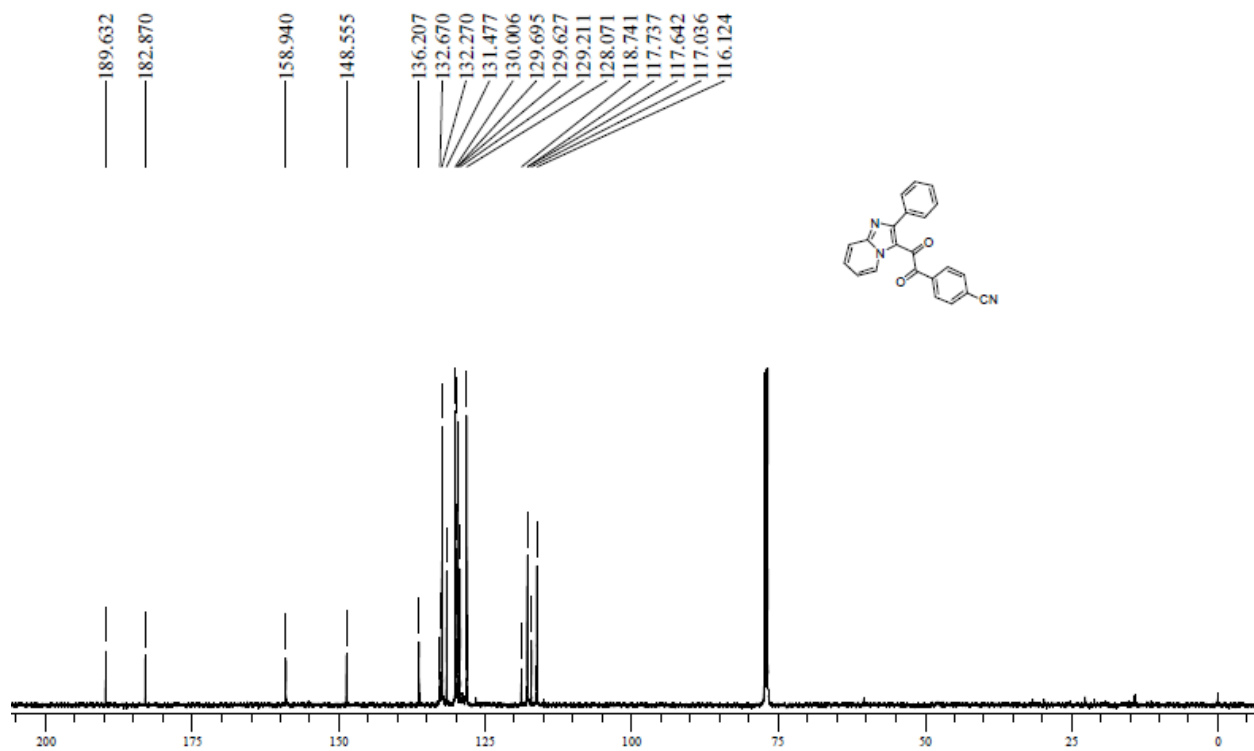
¹H NMR(500 MHz) Spectrum Of Compound 3ad In CDCl₃



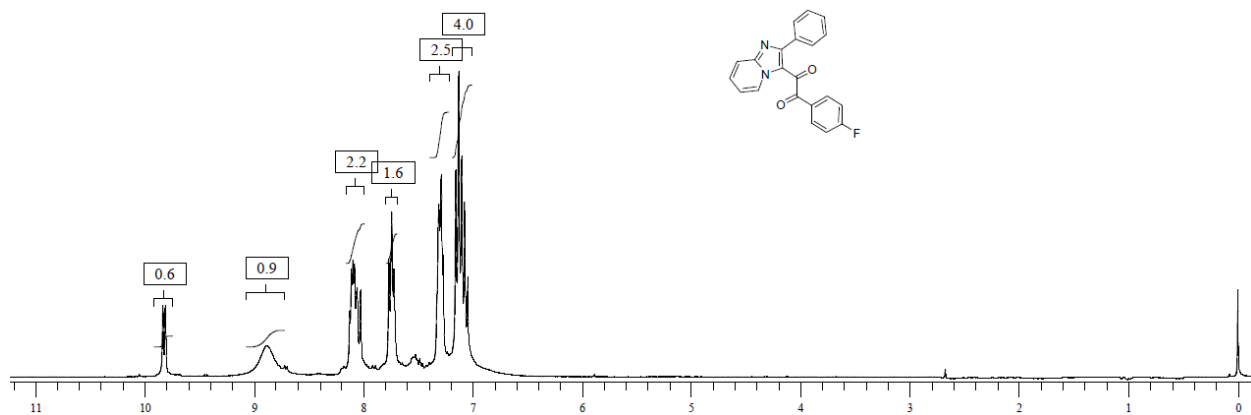
¹³C NMR (125 MHz) Spectrum Of Compound 3ad In CDCl₃.



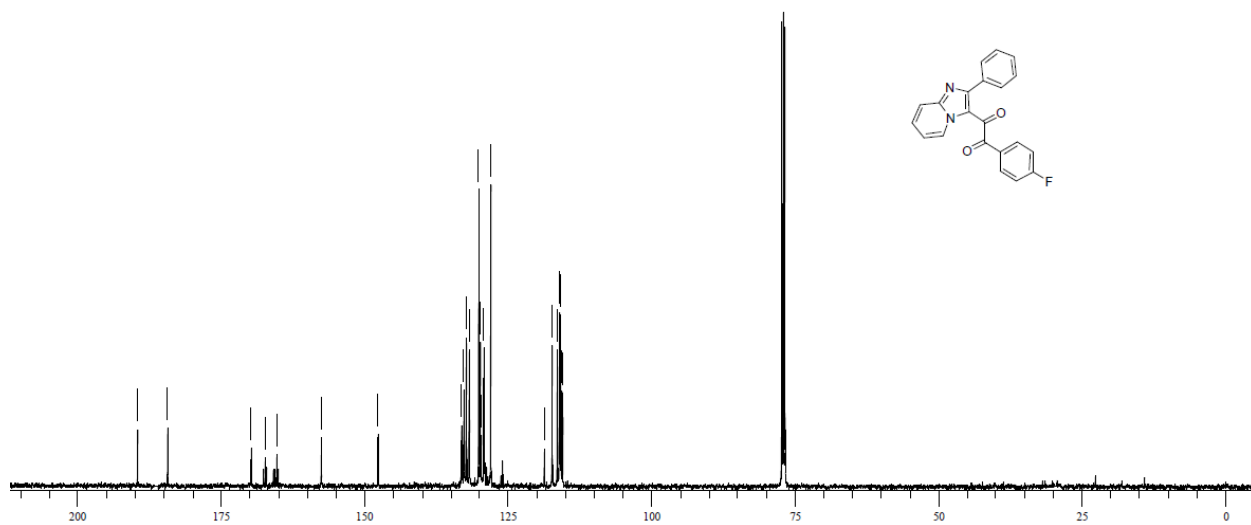
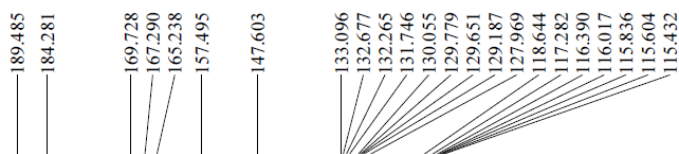
¹H NMR(500 MHz) Spectrum Of Compound 3ae In CDCl₃.



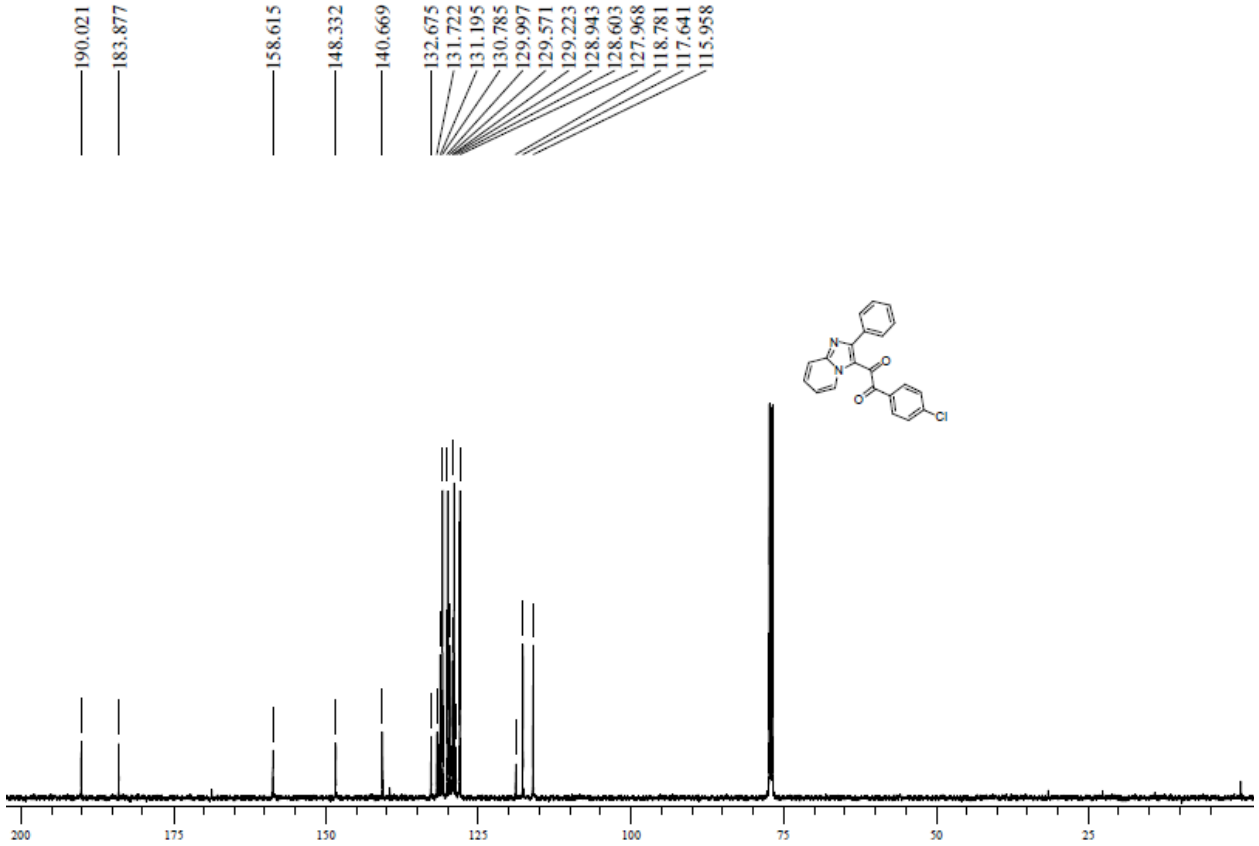
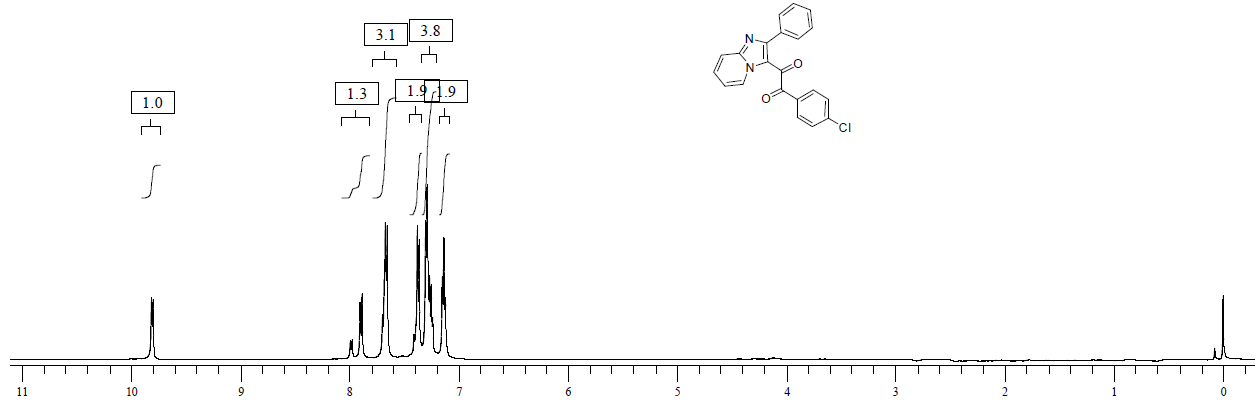
¹³C NMR (125 MHz) Spectrum Of Compound 3ae In CDCl₃.

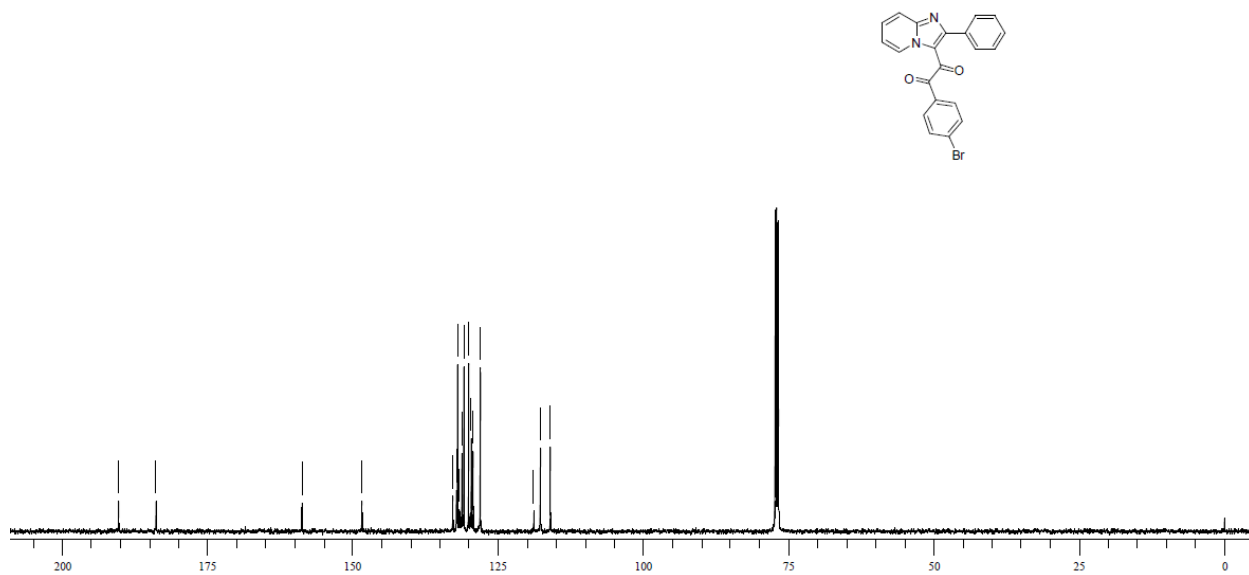
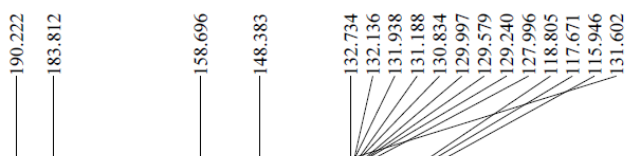
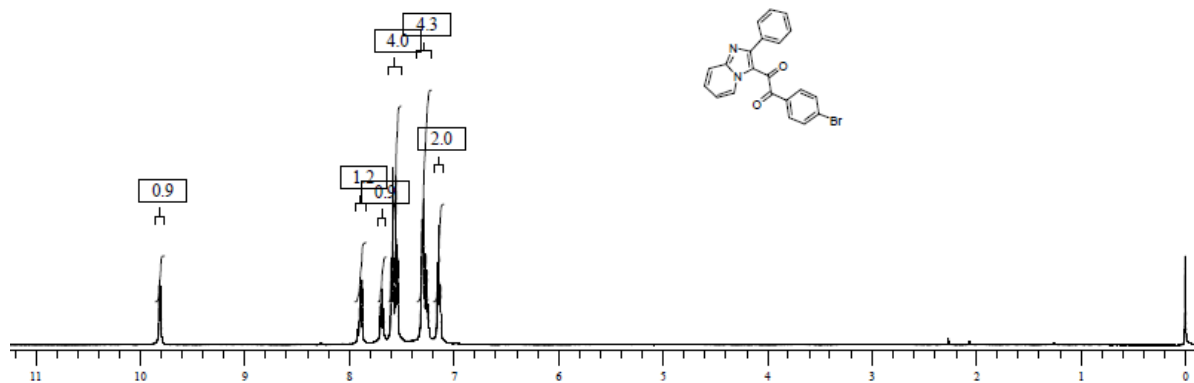


¹H NMR(500 MHz) Spectrum Of Compound 3af In CDCl₃

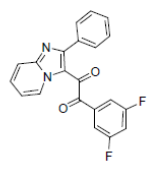
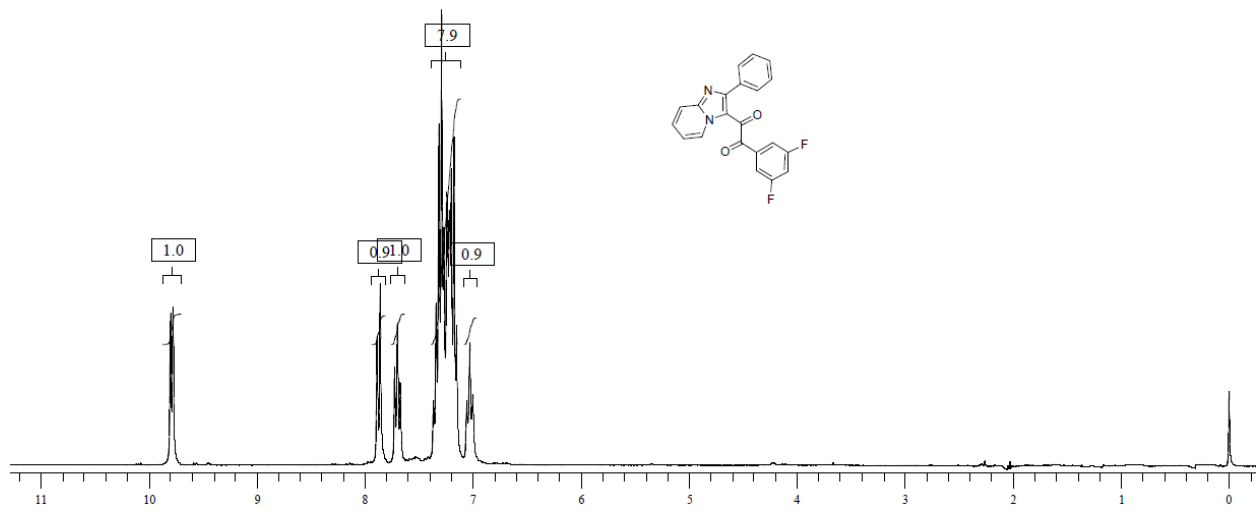


¹³C NMR (125 MHz) Spectrum Of Compound 3af In CDCl₃

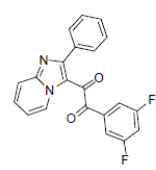
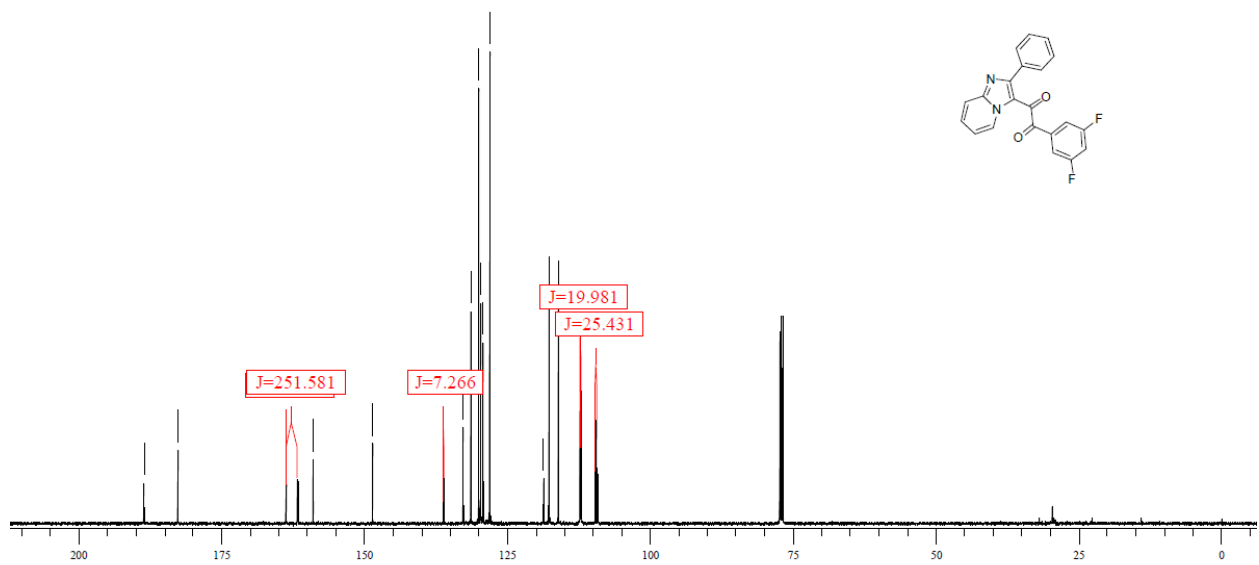
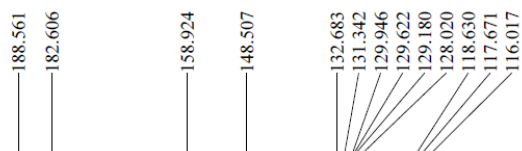




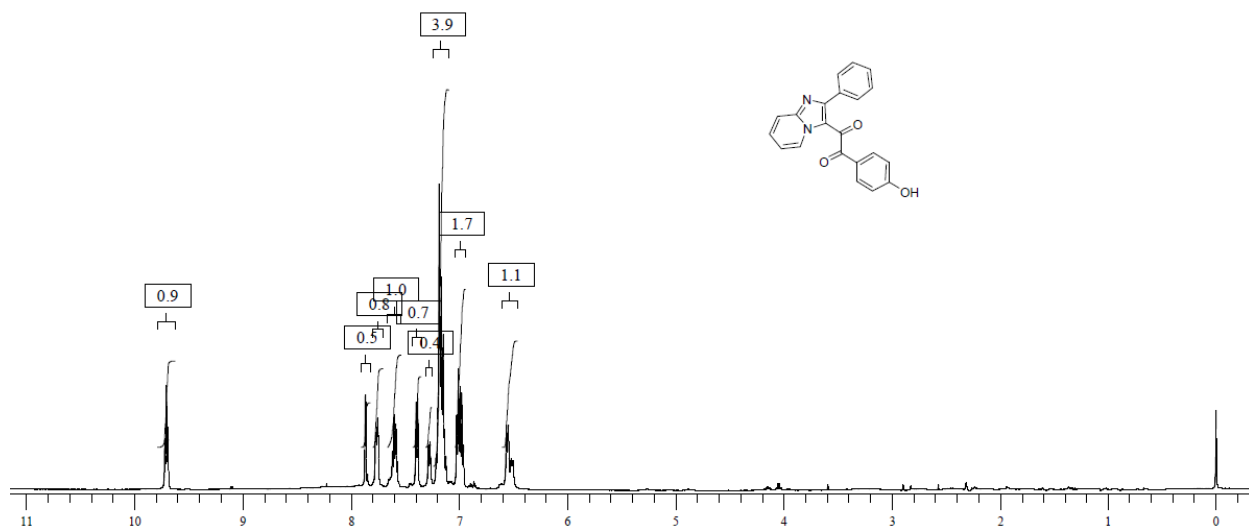
¹³C NMR (125 MHz) Spectrum Of Compound 3ah In CDCl₃



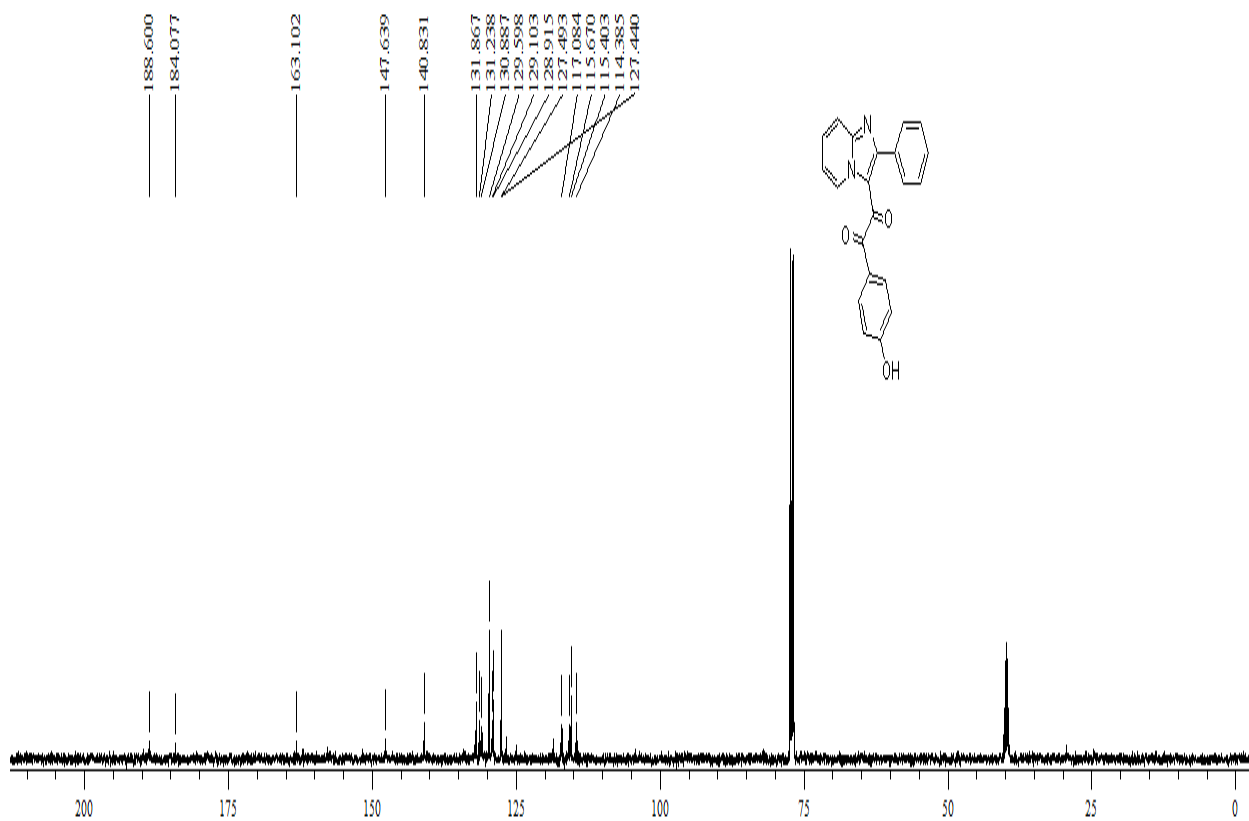
¹H NMR(500 MHz) Spectrum Of Compound 3ai In CDCl₃



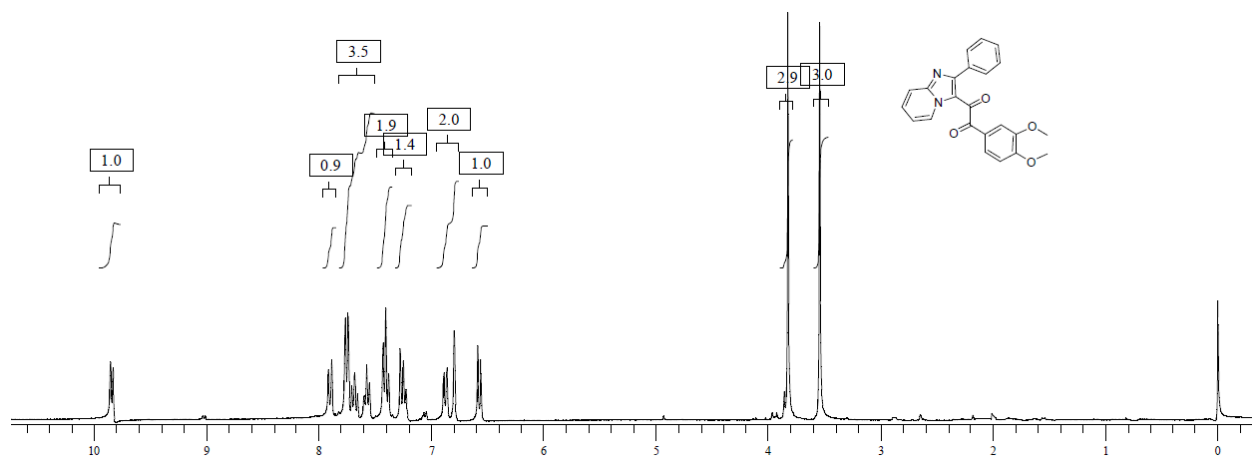
¹³C NMR (125 MHz) Spectrum Of Compound 3ai In CDCl₃



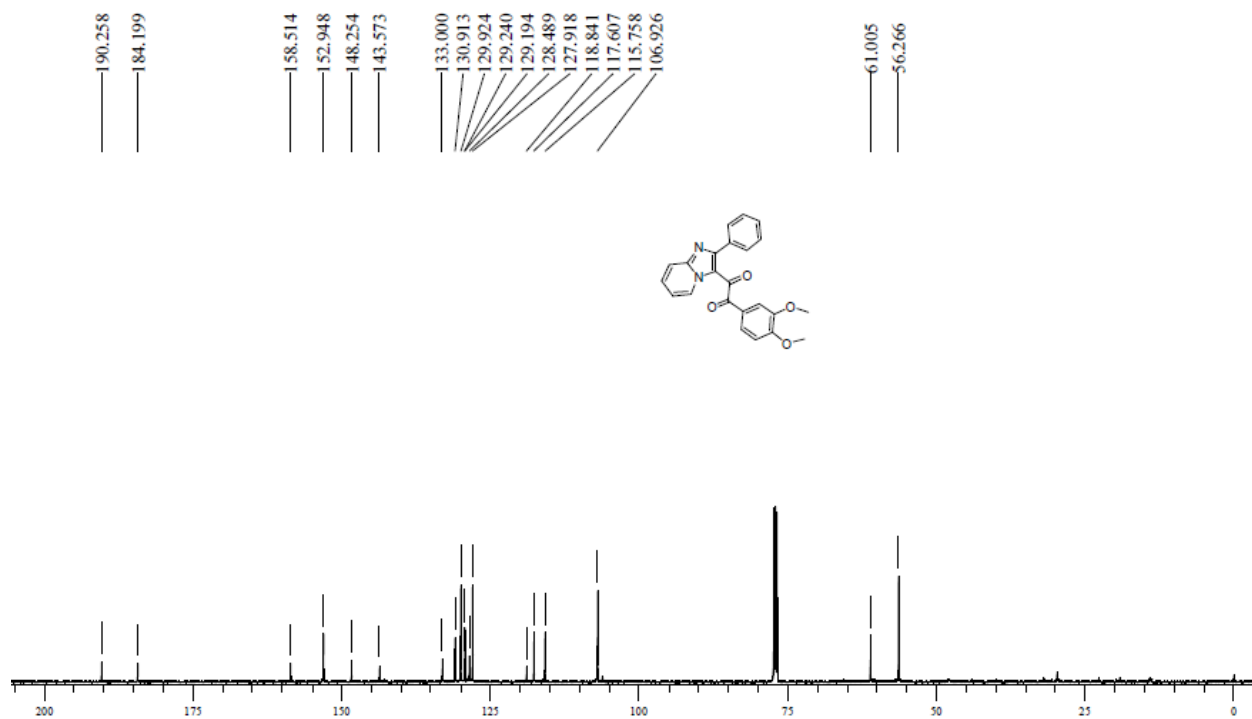
¹H NMR(500 MHz) Spectrum Of Compound 3aj In CDCl₃.



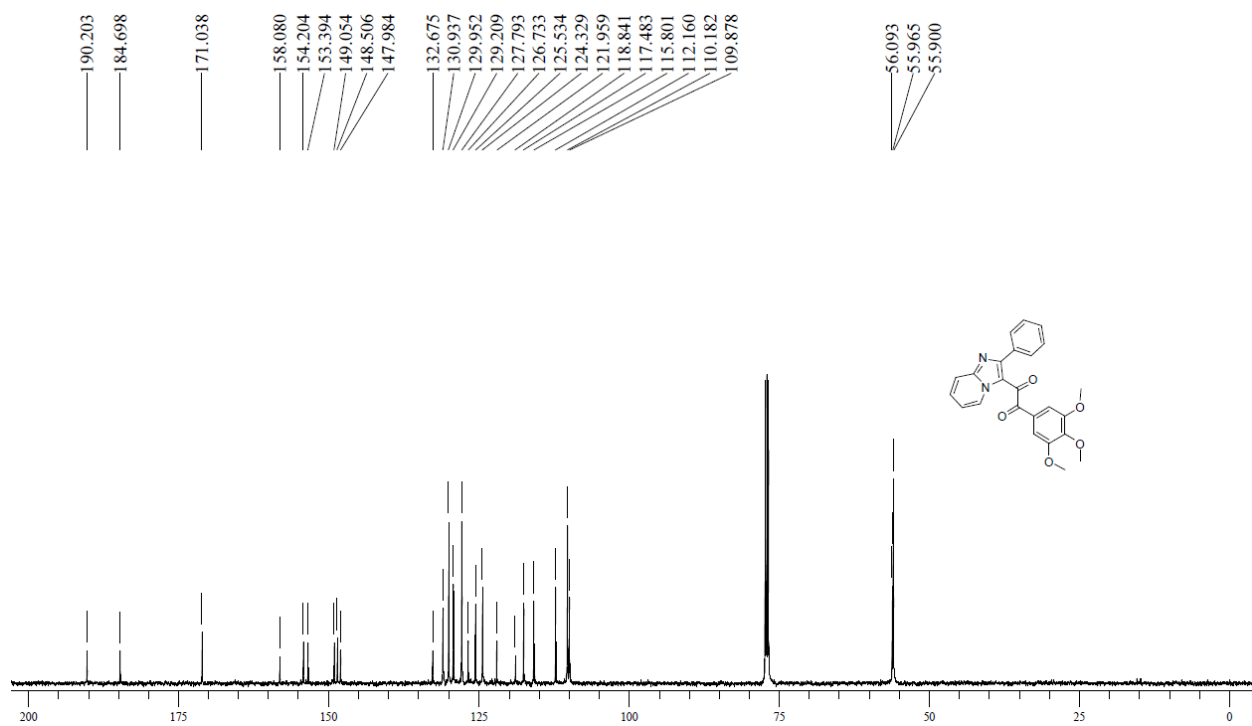
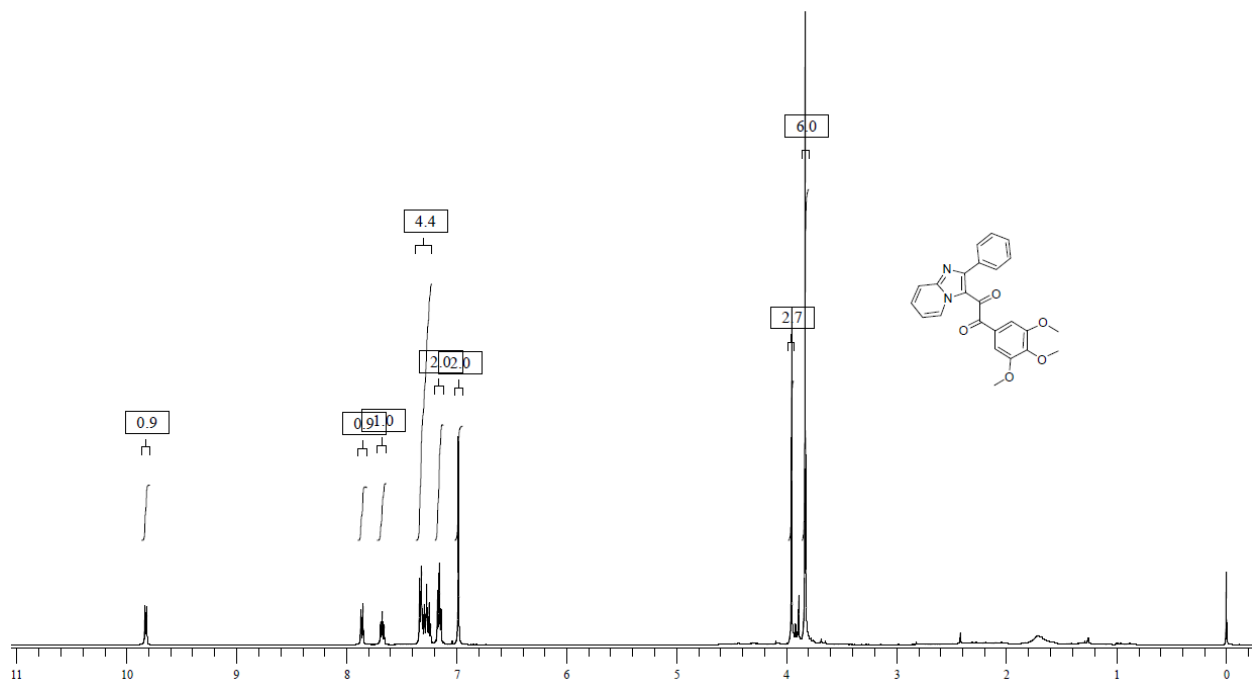
¹³CNMR(75 MHz) Spectrum Of Compound 3aj In DMSO-*d*₆+CDCl₃

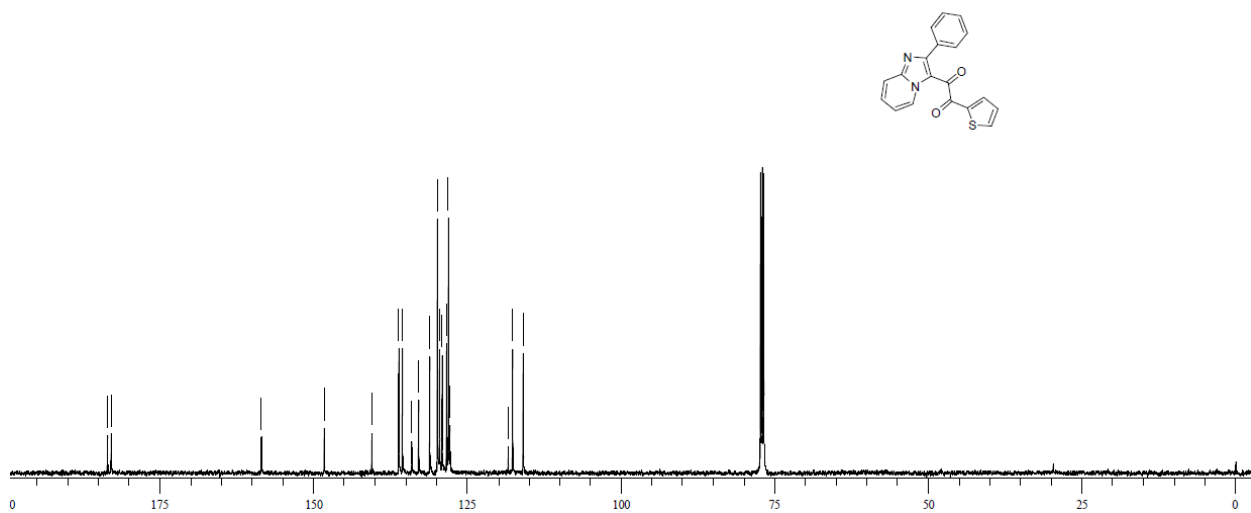
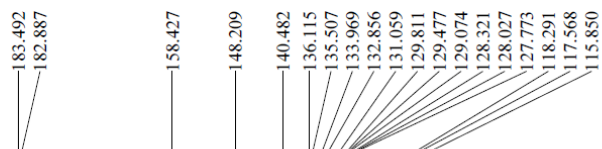
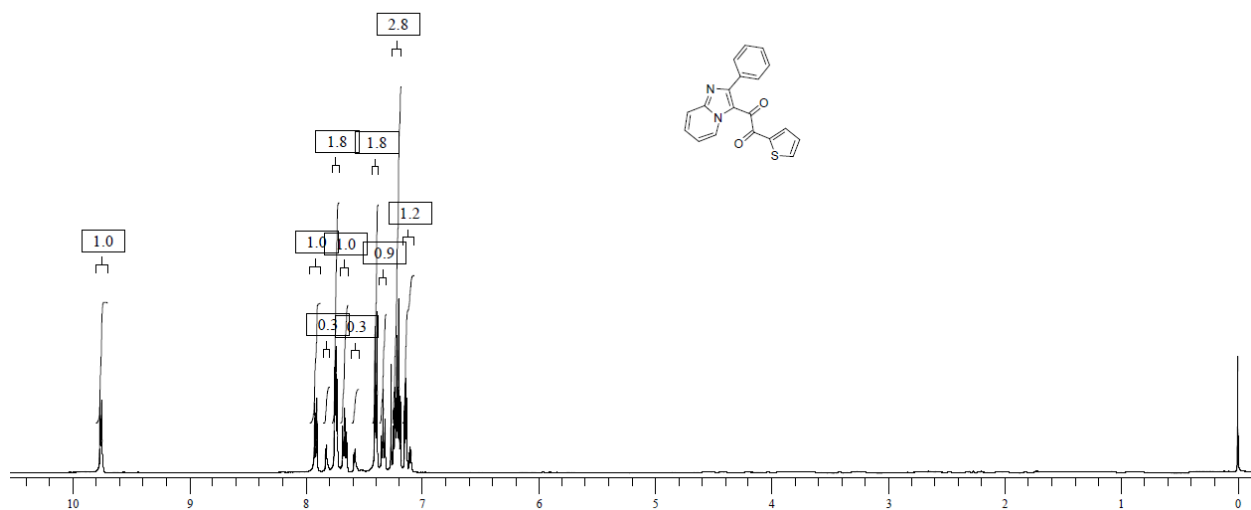


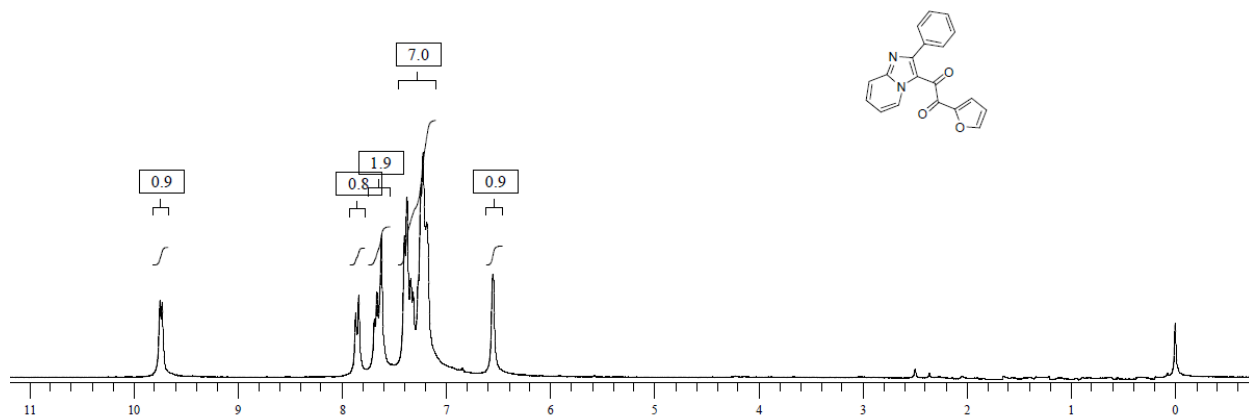
^1H NMR(300 MHz) Spectrum Of Compound 3ak In CDCl_3



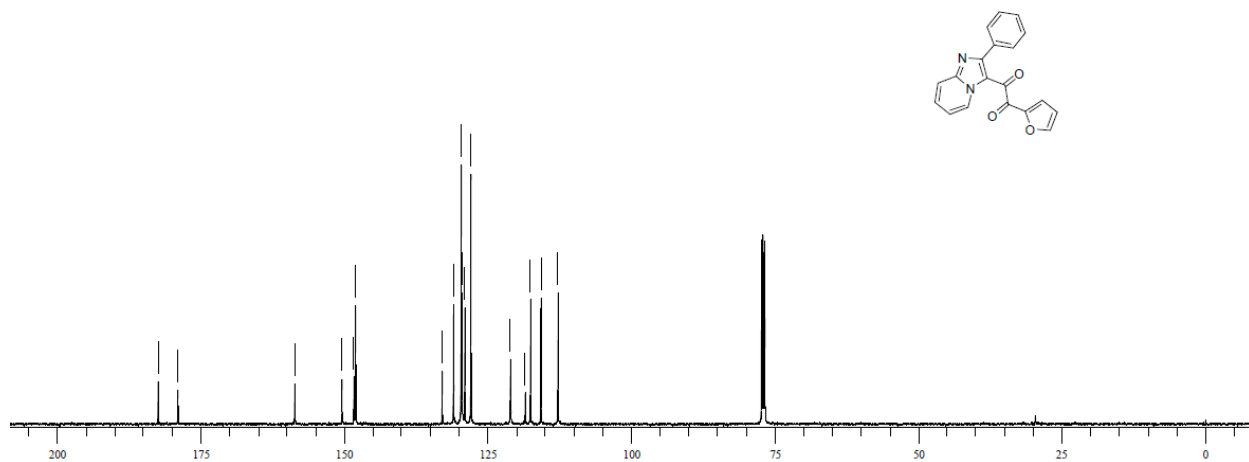
^{13}C NMR (75 MHz) Spectrum Of Compound 3ak In CDCl_3



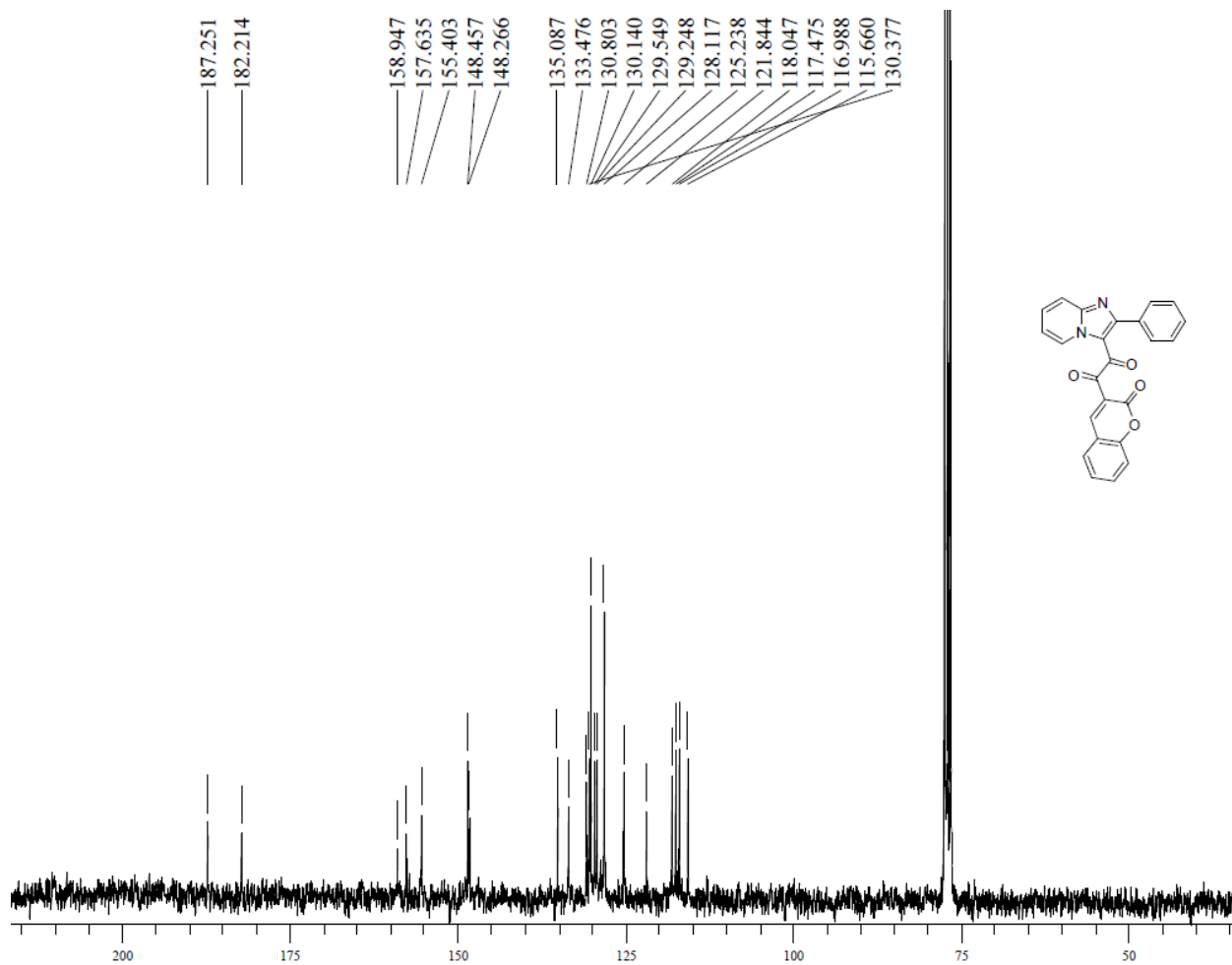
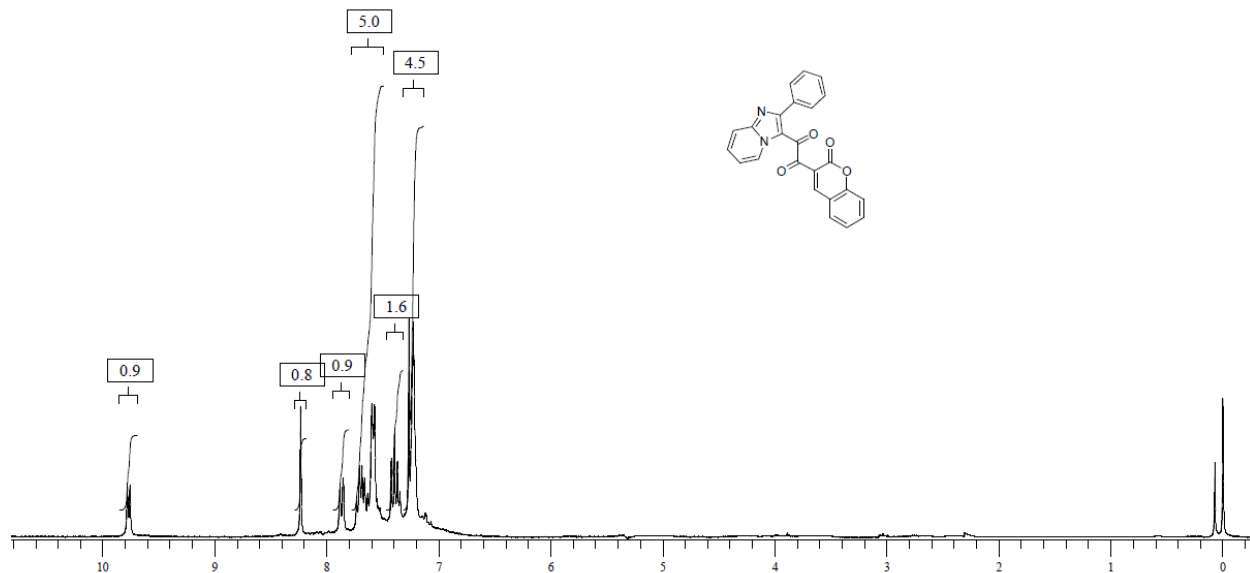


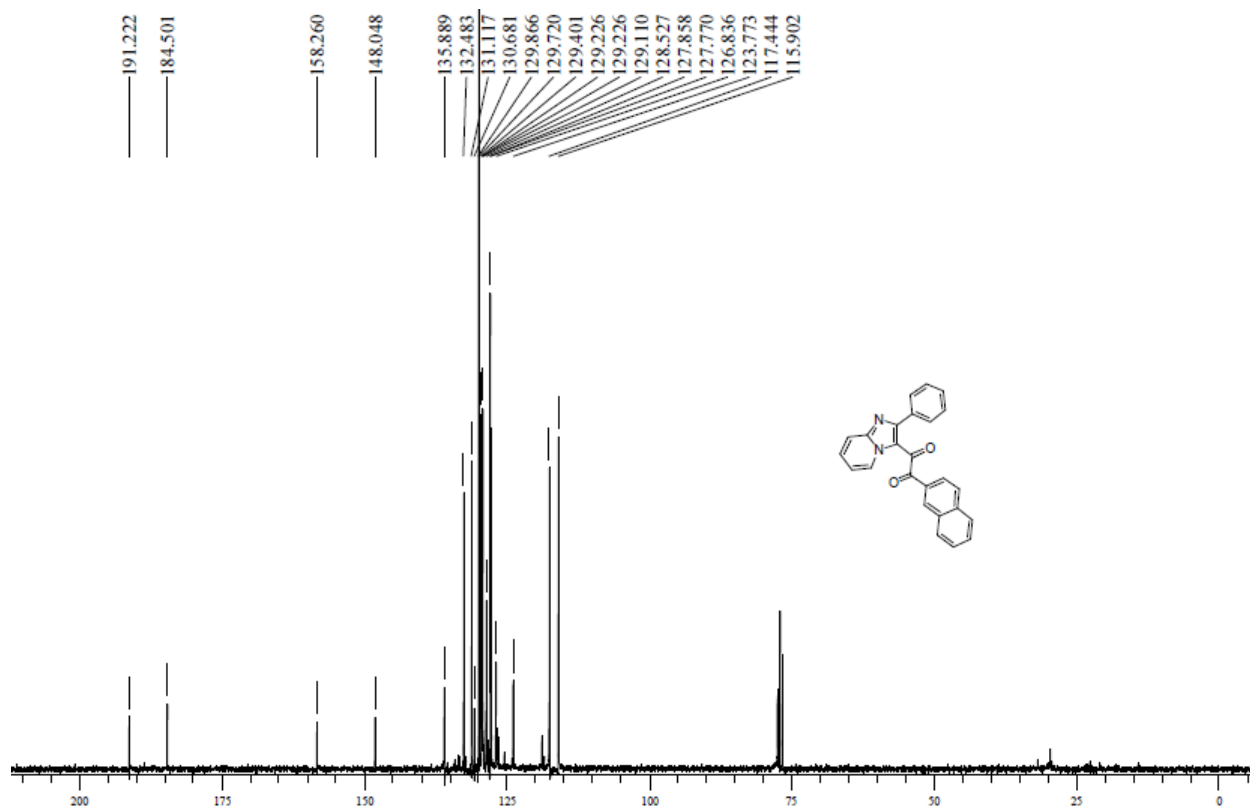
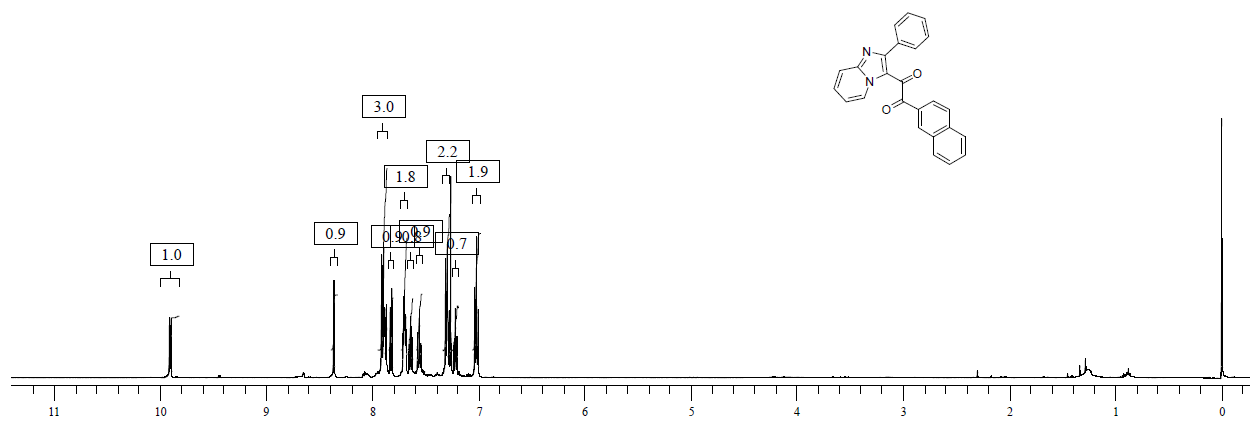


¹H NMR (300 MHz) Spectrum Of Compound 3an In CDCl₃

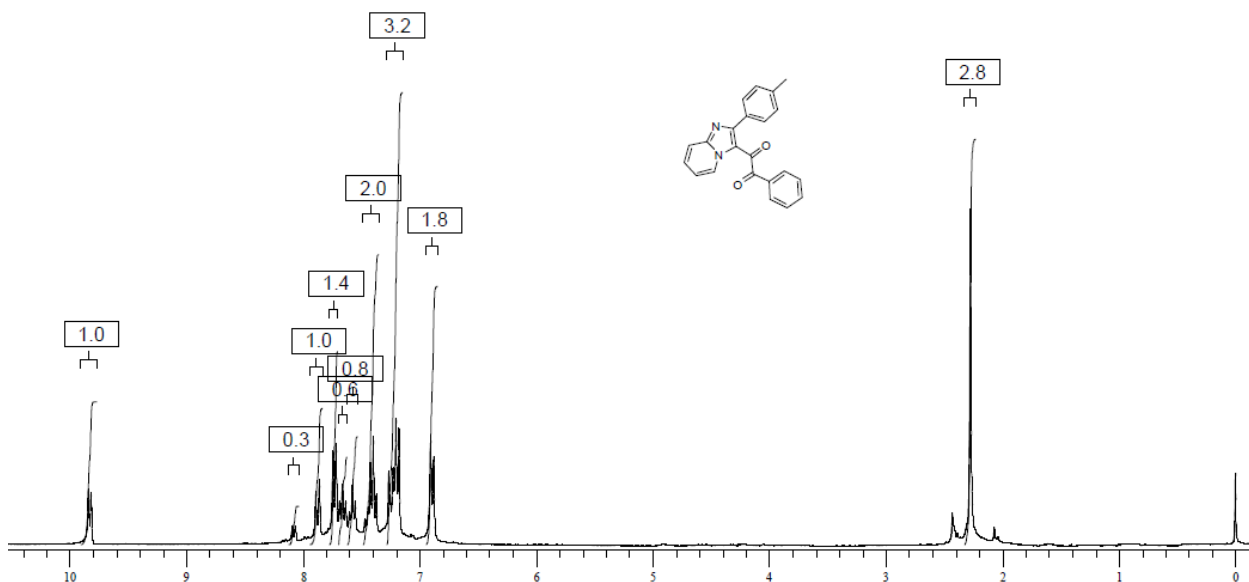


¹³C NMR (125 MHz) Spectrum Of Compound 3an In CDCl₃

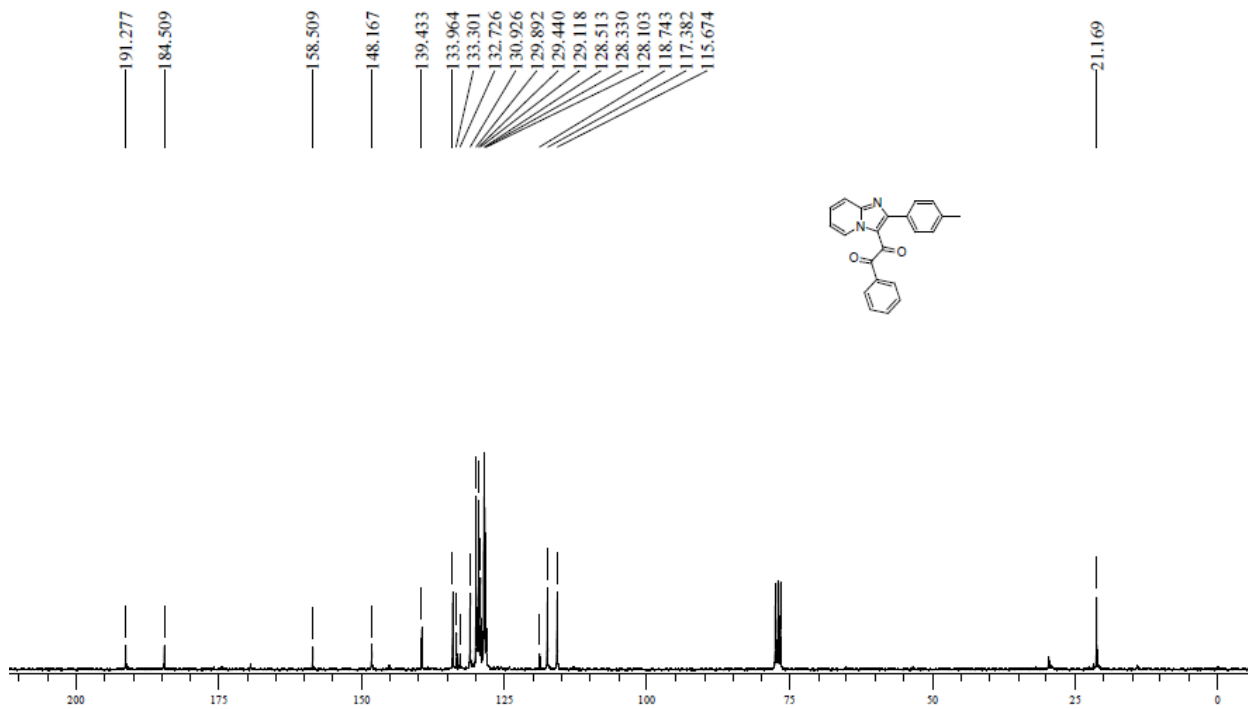




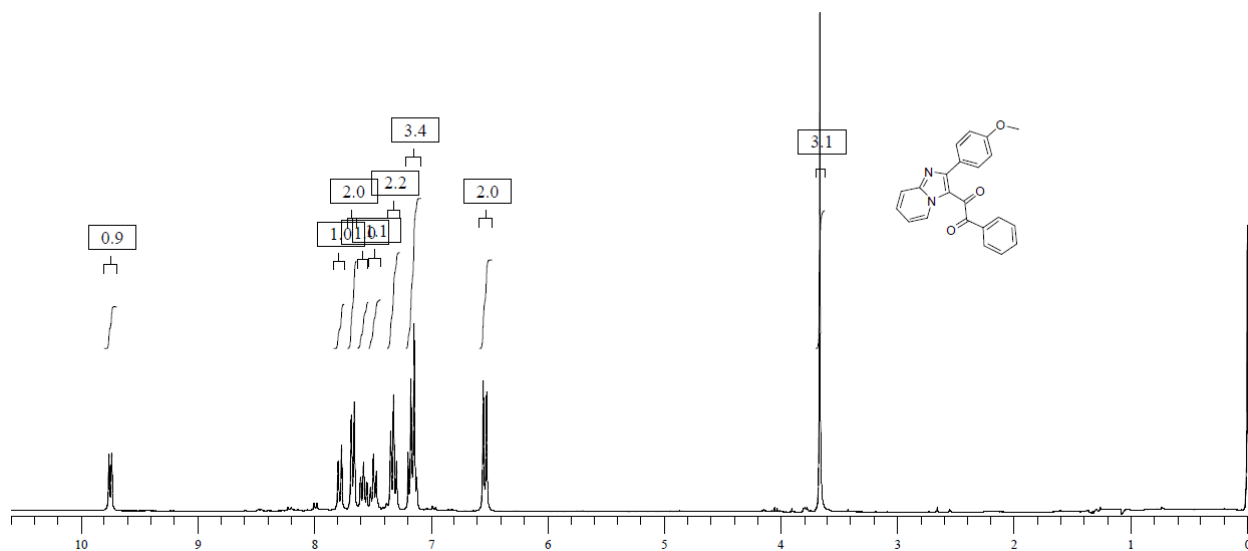
¹³C NMR(125 MHz) Spectrum Of Compound 3ap In CDCl₃



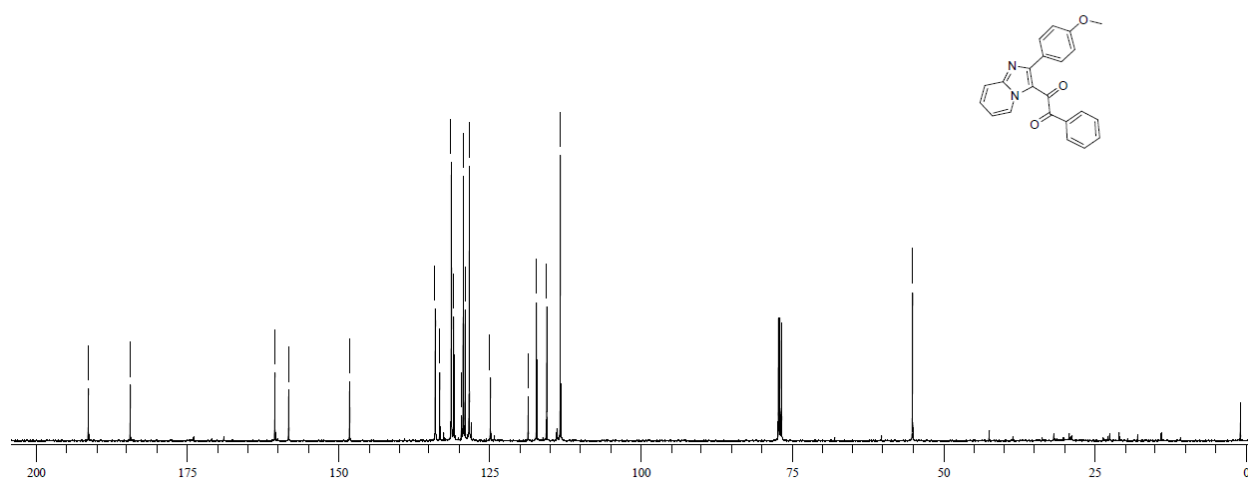
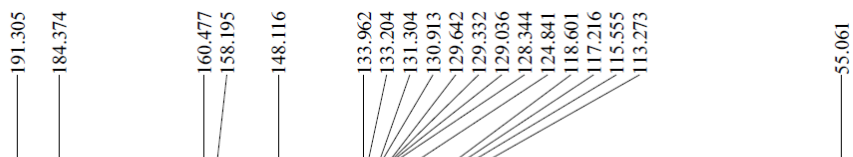
¹H NMR(500 MHz) Spectrum Of Compound 3ba In CDCl₃



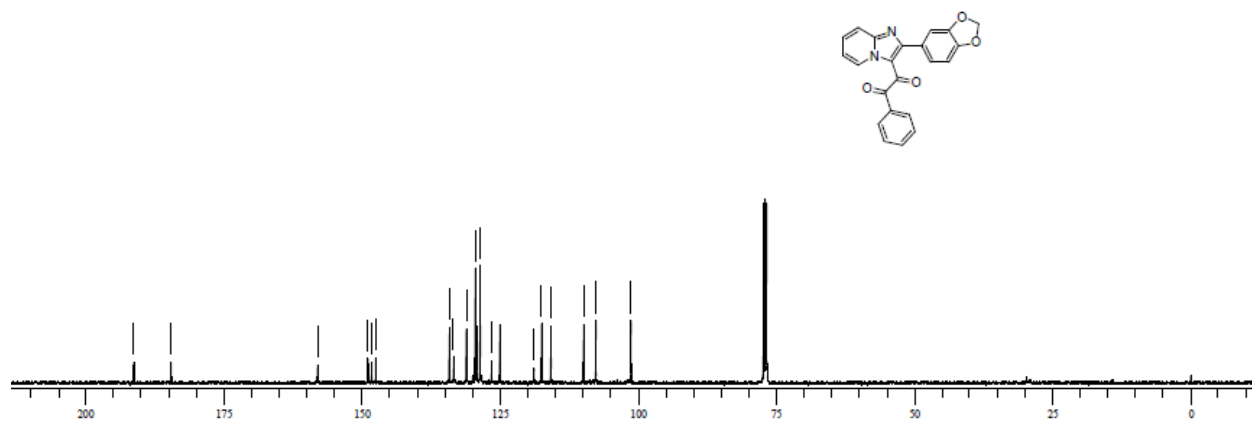
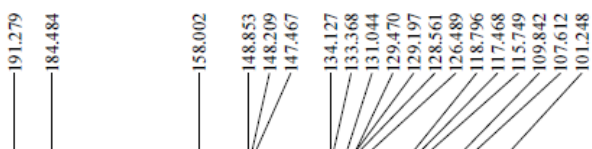
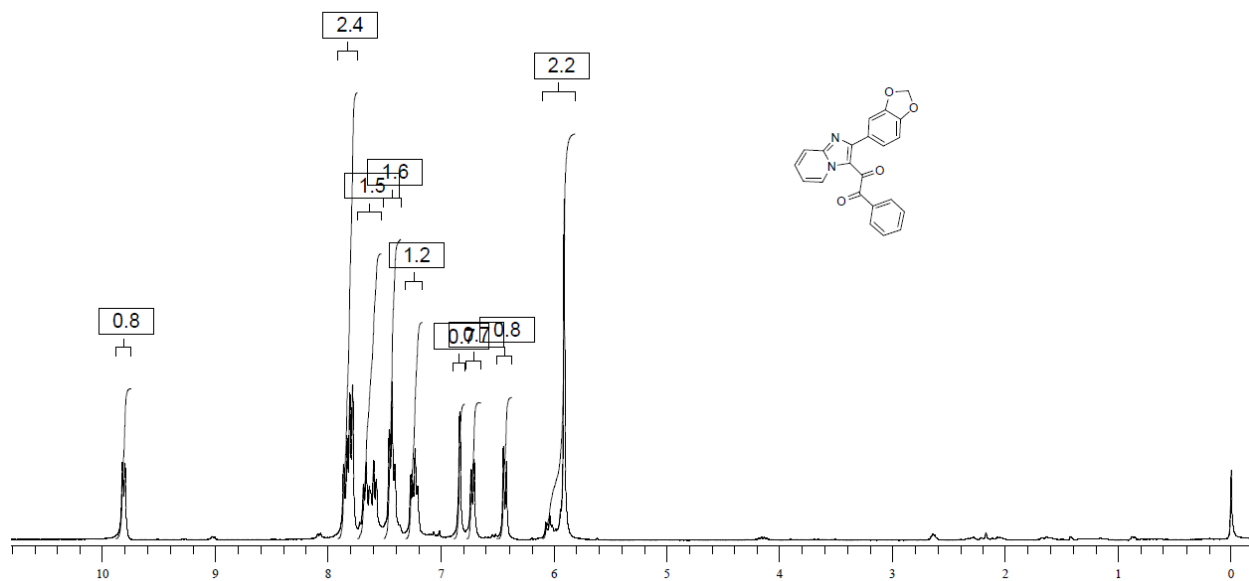
¹³C NMR (125 MHz) Spectrum Of Compound 3ba In CDCl₃

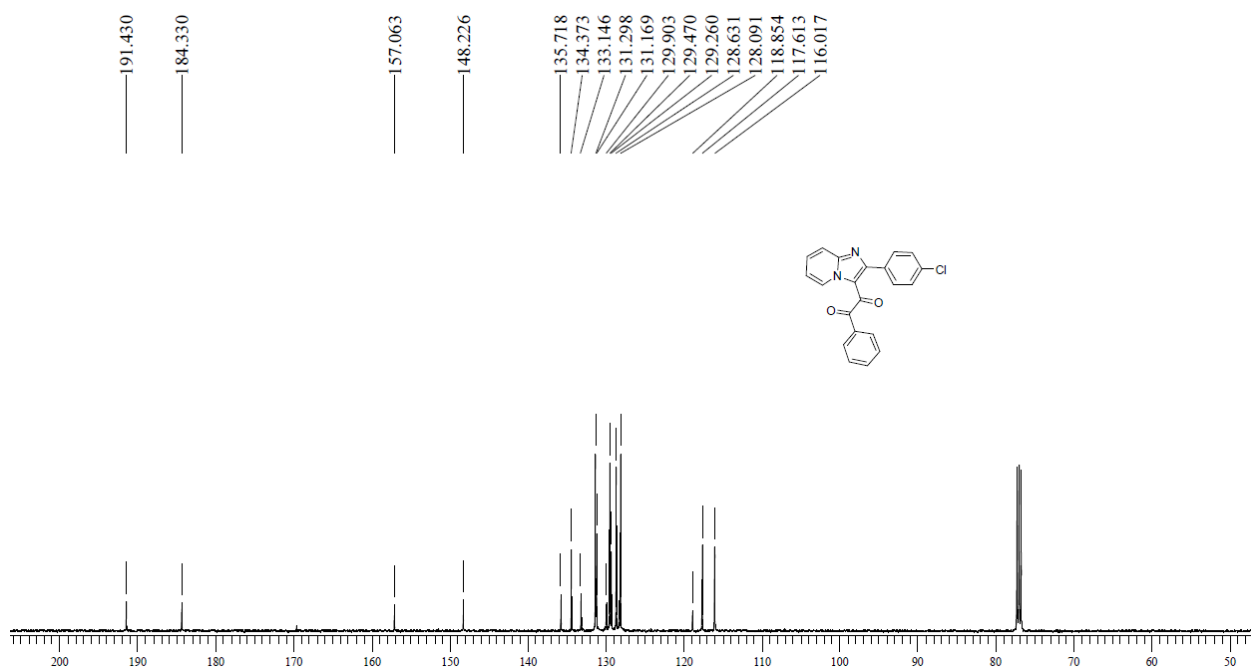
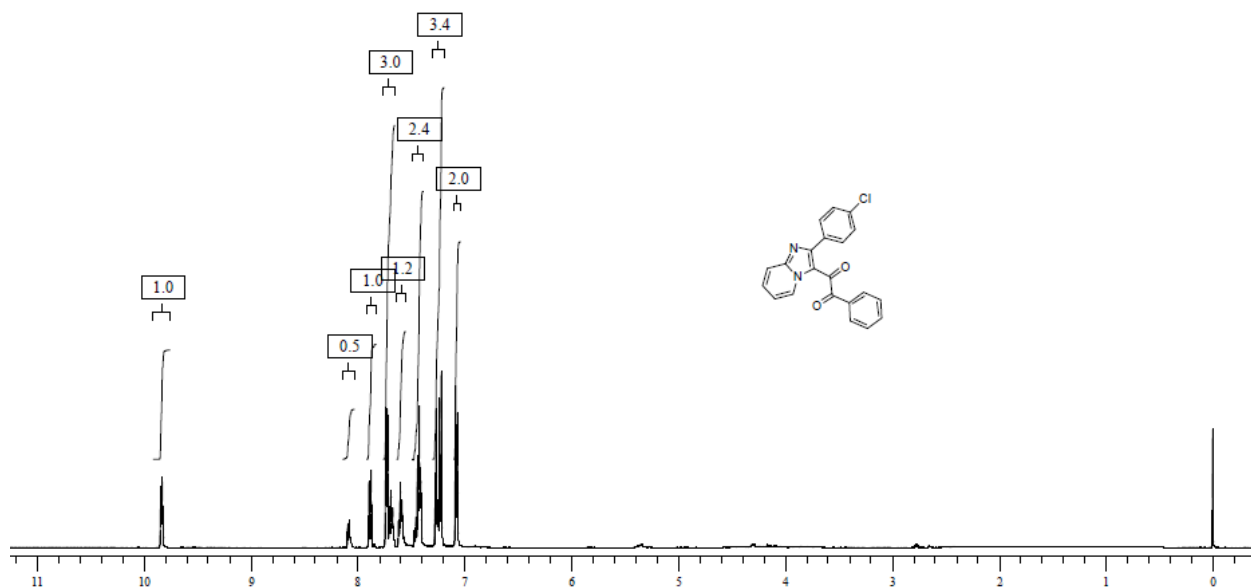


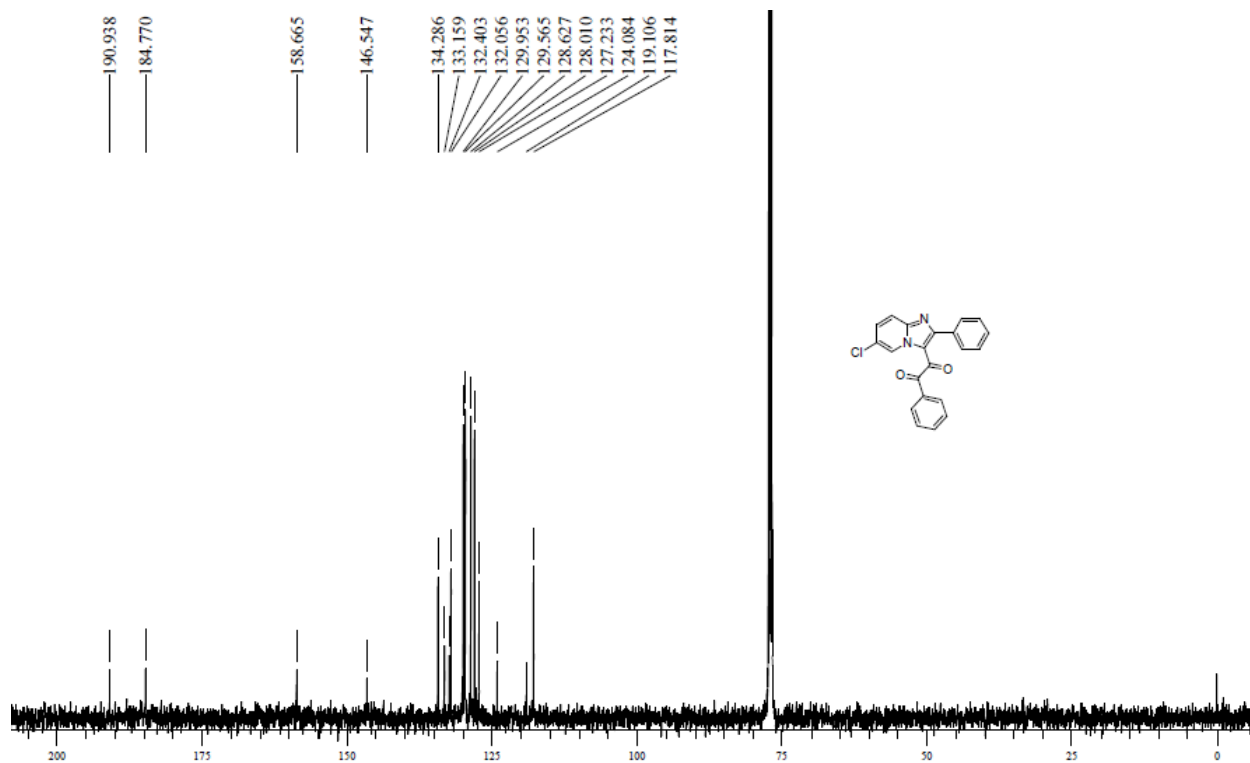
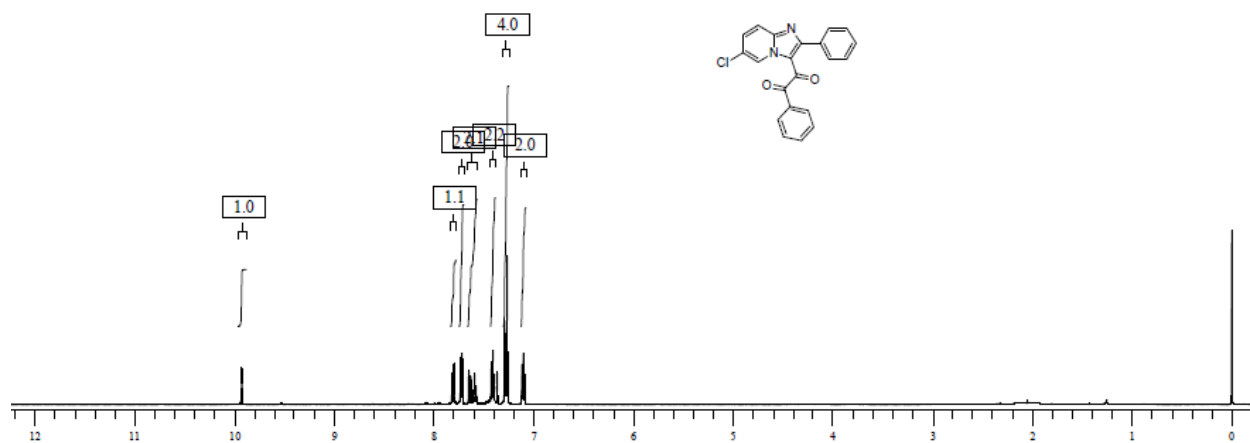
¹H NMR(300 MHz) Spectrum Of Compound 3ca In CDCl₃

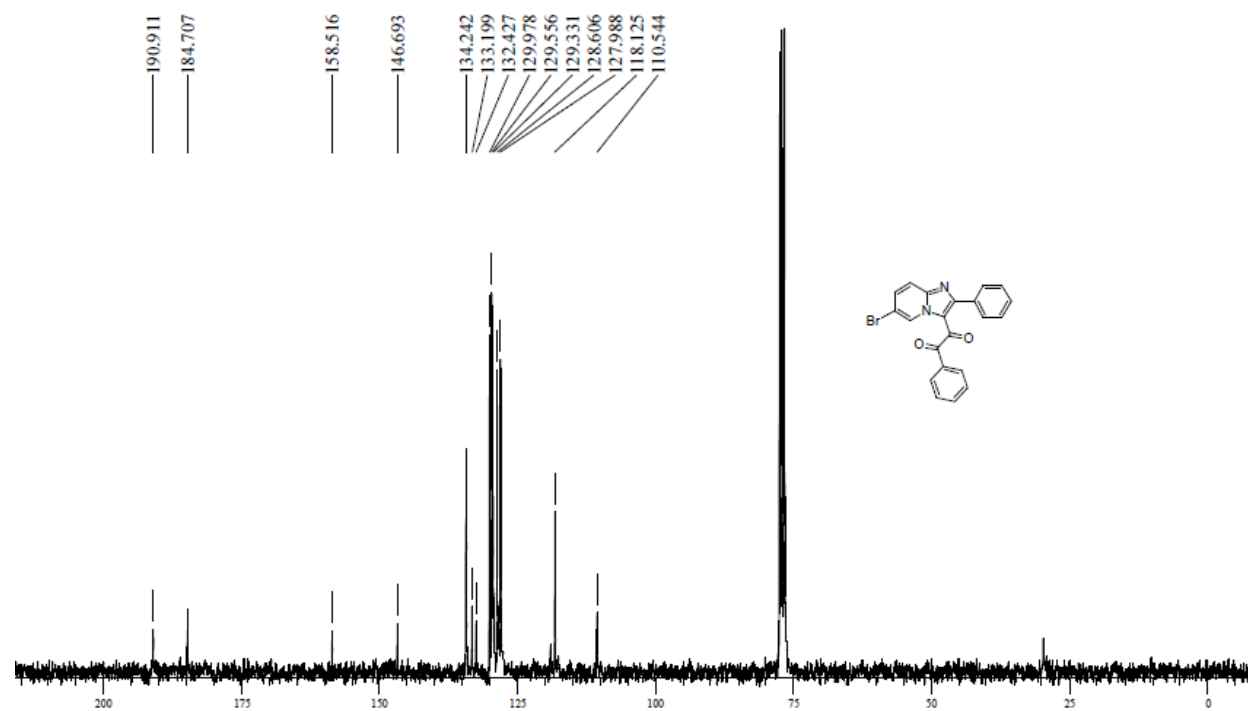
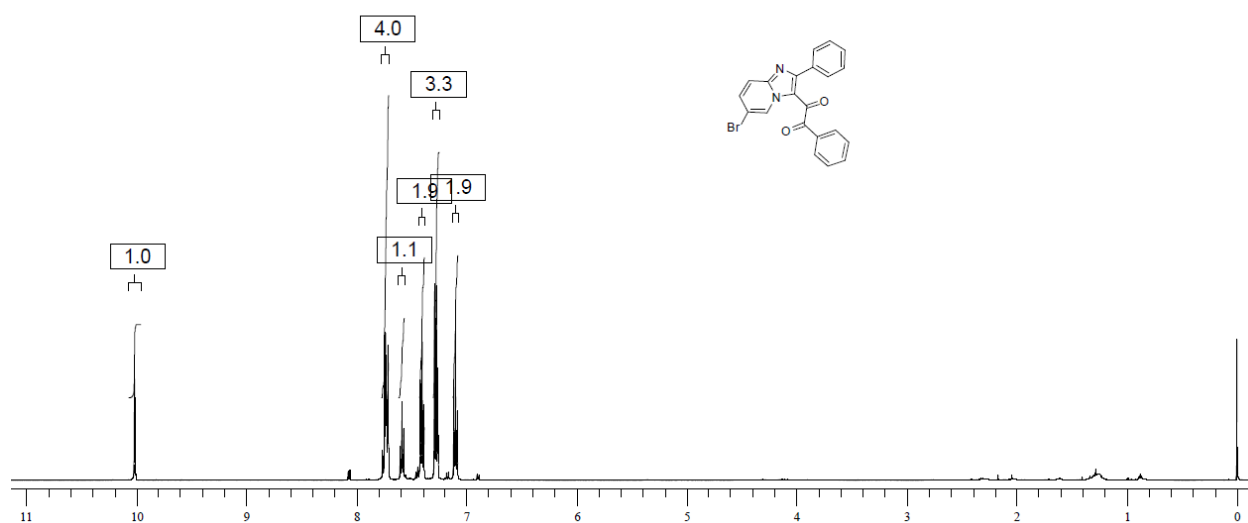


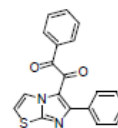
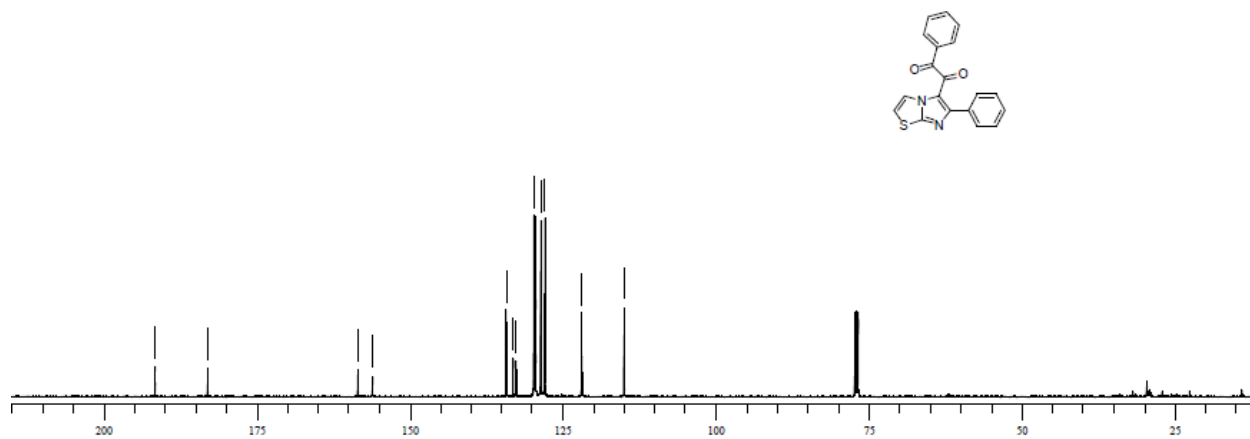
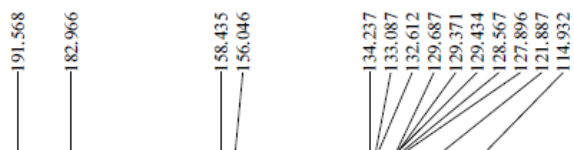
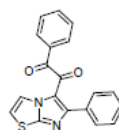
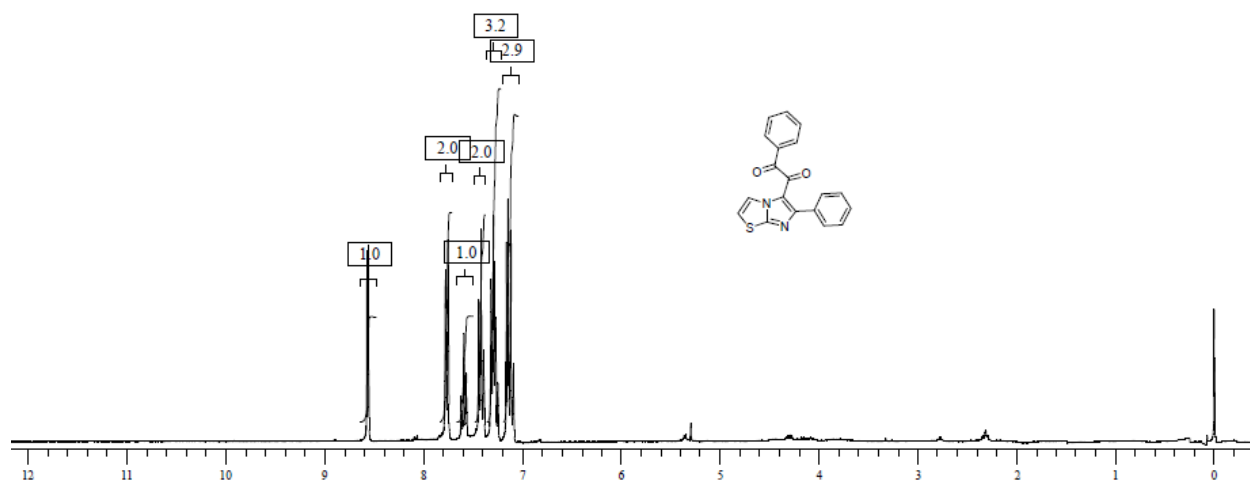
¹³C NMR (125 MHz) Spectrum Of Compound 3ca In CDCl₃

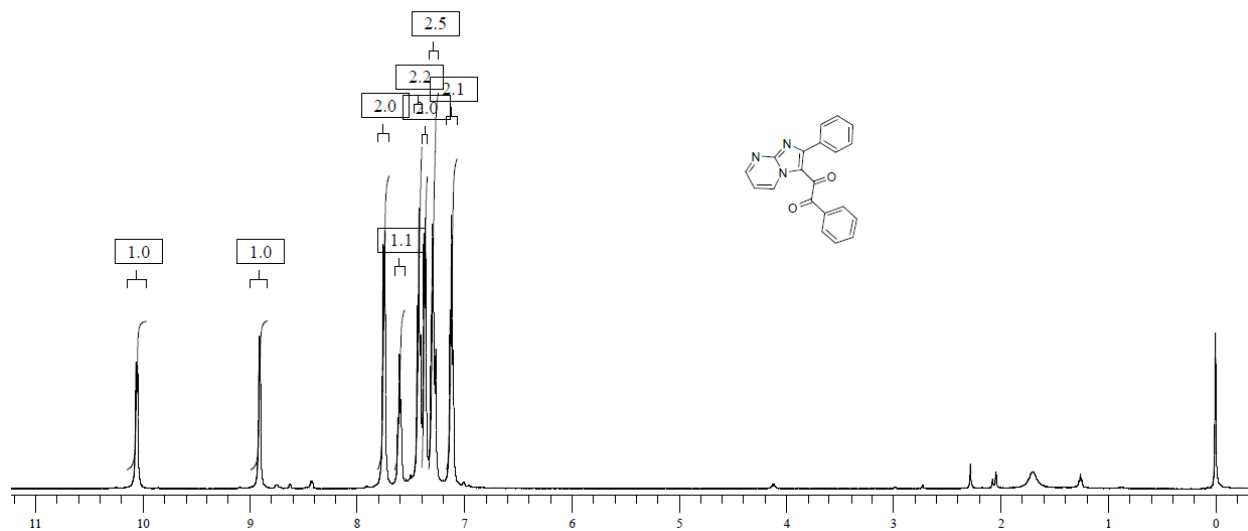




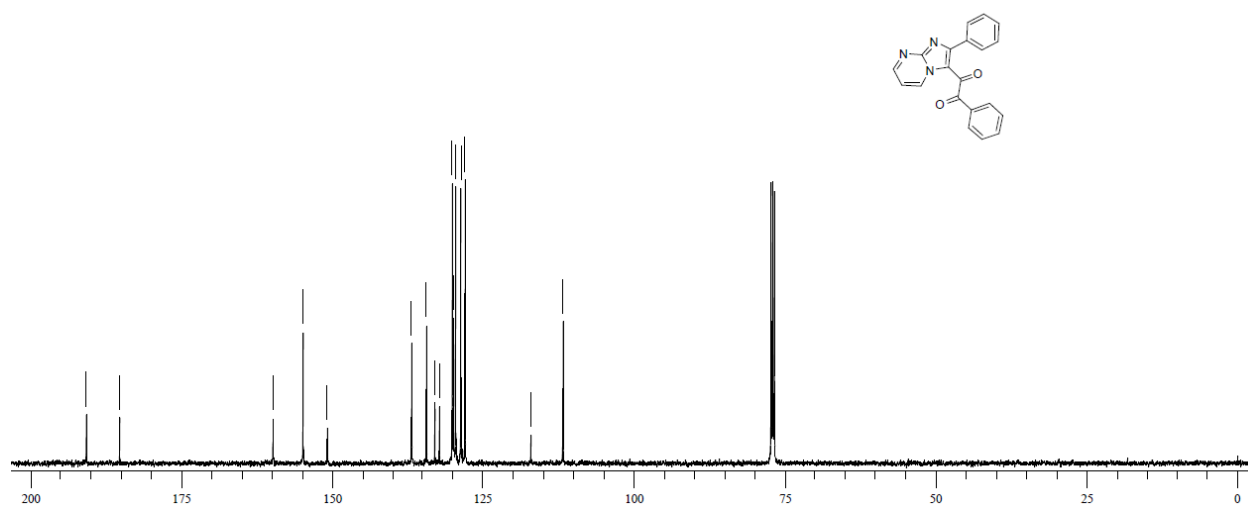
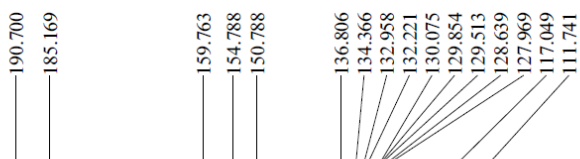








¹H NMR(500 MHz) Spectrum Of Compound 3ia In CDCl₃



¹³C NMR (75 MHz) Spectrum Of Compound 3ia In CDCl₃.