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## Supporting Information

### **Oxidative Cross-Dehydrogenative Coupling (CDC) via C<sub>(sp<sup>2</sup>)</sub>-H bond Functionalization: *tert*-Butyl Peroxybenzoate-promoted Regioselective Direct C-3 Acylation/Benzoylation of 2*H*-Indazoles with Aldehydes/Benzyl Alcohols/Styrenes**

Richa Sharma, Lalit Yadav, Ravi Kant Yadav and Sandeep Chaudhary\*

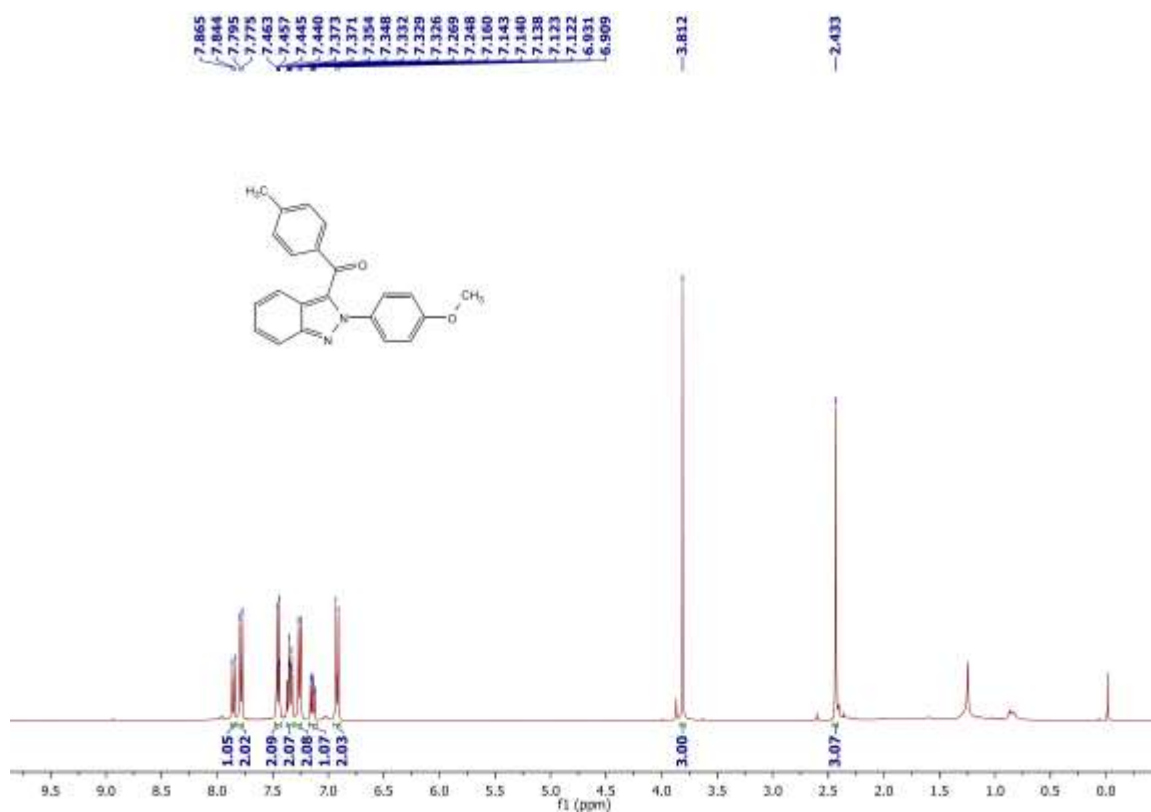
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Fax: 911412529029; Tel: 911412713319; E-mail: [schaudhary.chy@mnit.ac.in](mailto:schaudhary.chy@mnit.ac.in)

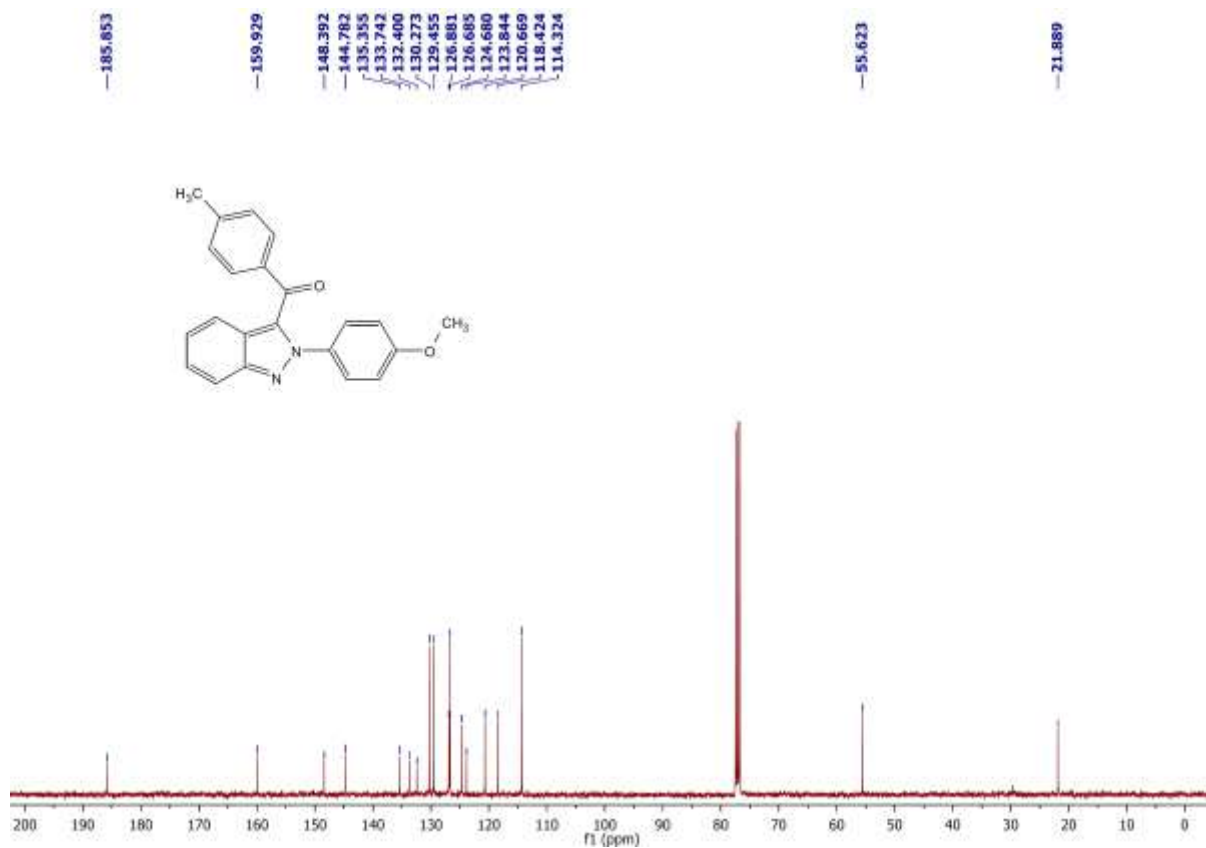
### Content

S.No.	Spectral Data	Pages
1.	<sup>1</sup> H and <sup>13</sup> C spectral data of C-3 acylated/benzoylated-2-aryl-2 <i>H</i> -Indazoles <b>3a-q/4a-l, 7, 11, 13-14</b>	S2 - S34

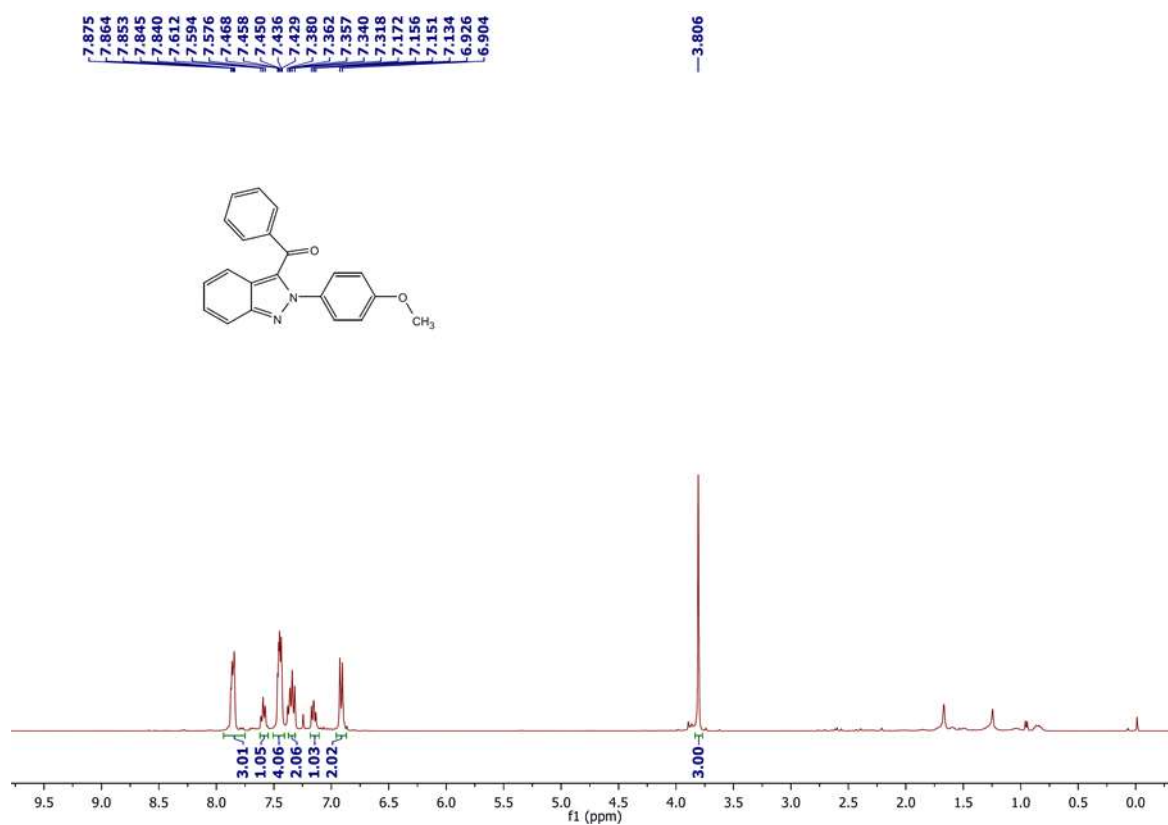
## 1. $^1\text{H}$ NMR and $^{13}\text{C}$ NMR Spectra of the Products



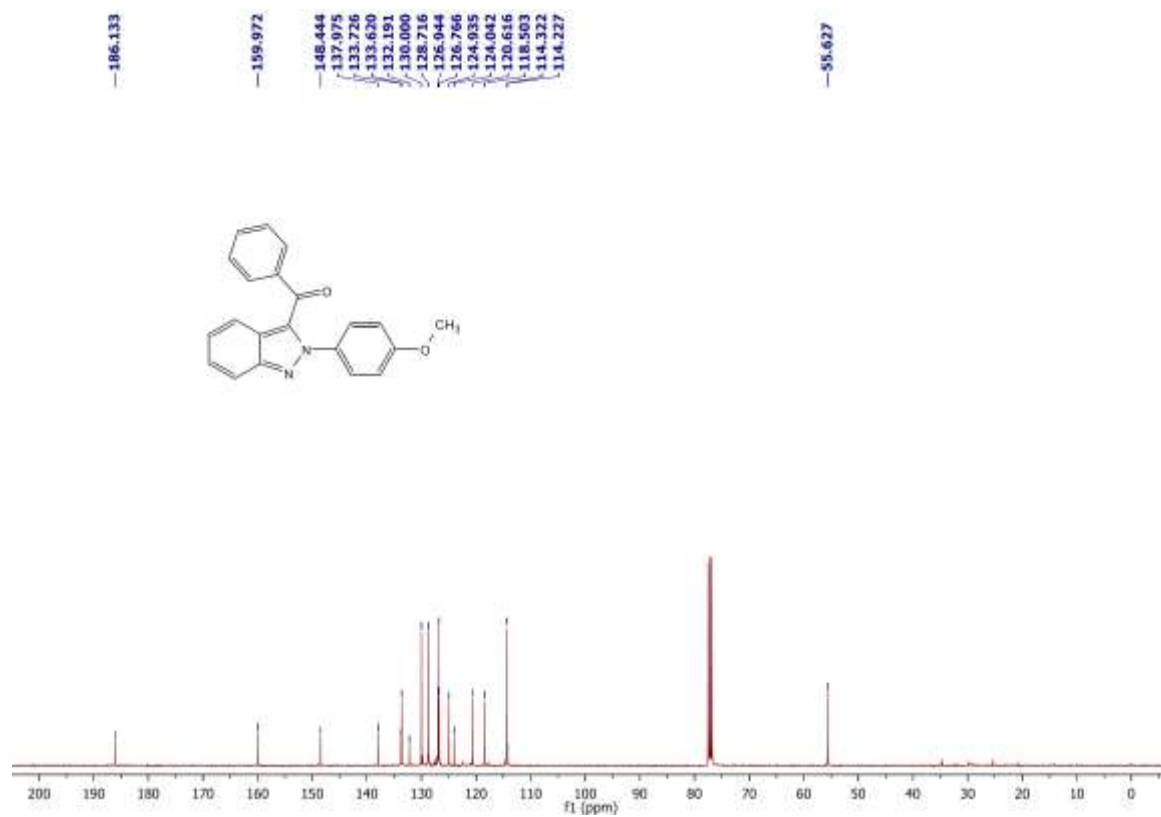
$^1\text{H}$  NMR (400 MHz, Chloroform-*d*) Spectra of **3a**



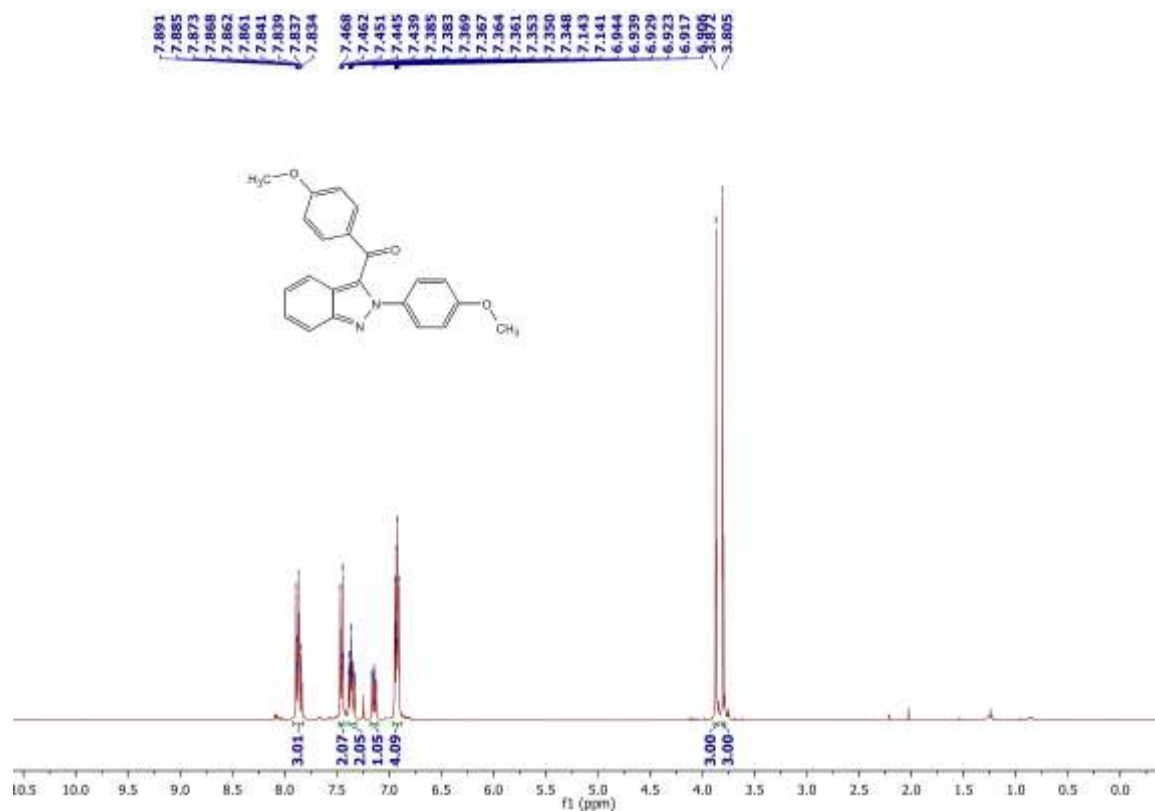
$^{13}\text{C}$  NMR (100 MHz, Chloroform-*d*) Spectra of **3a**



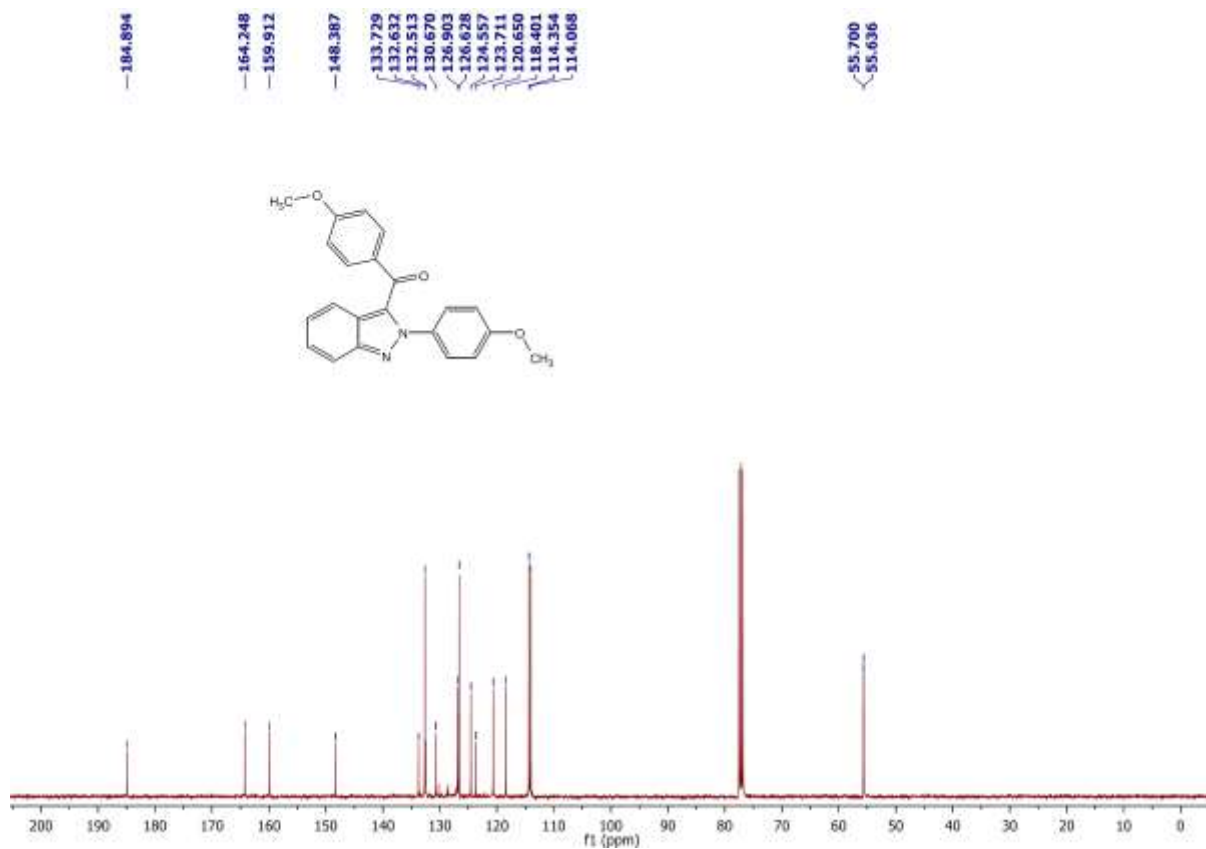
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3b**



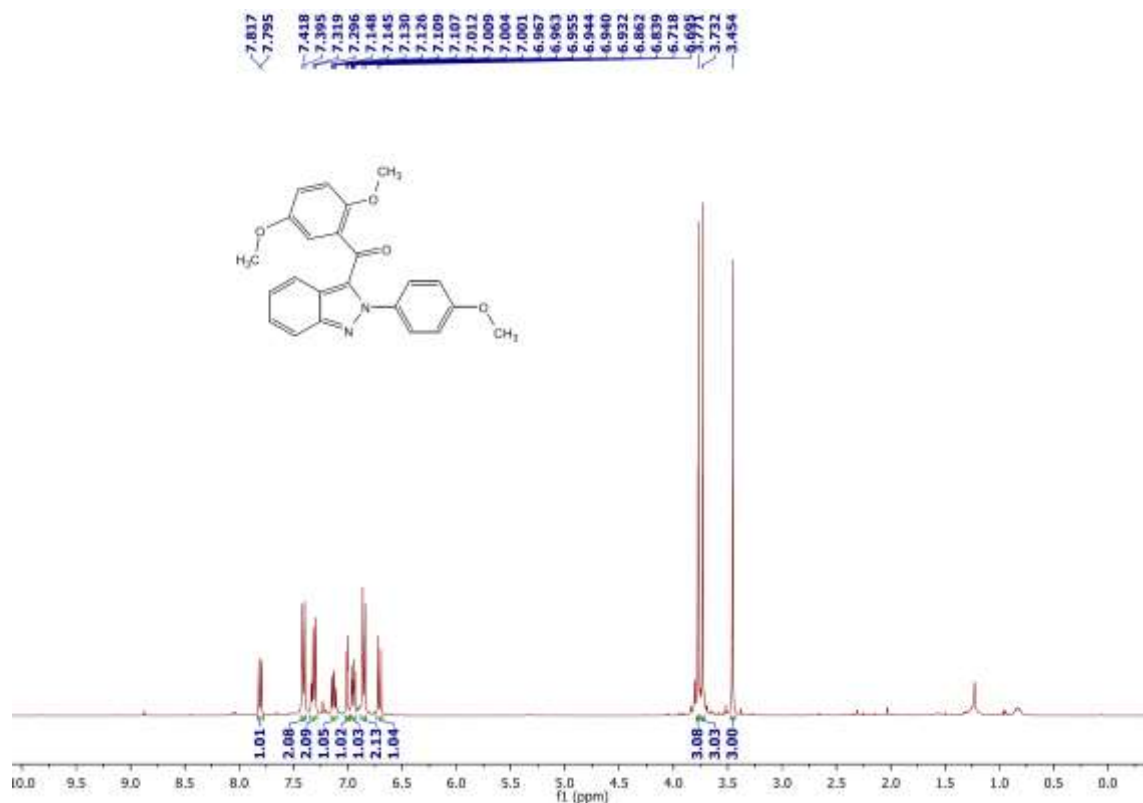
<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3b**



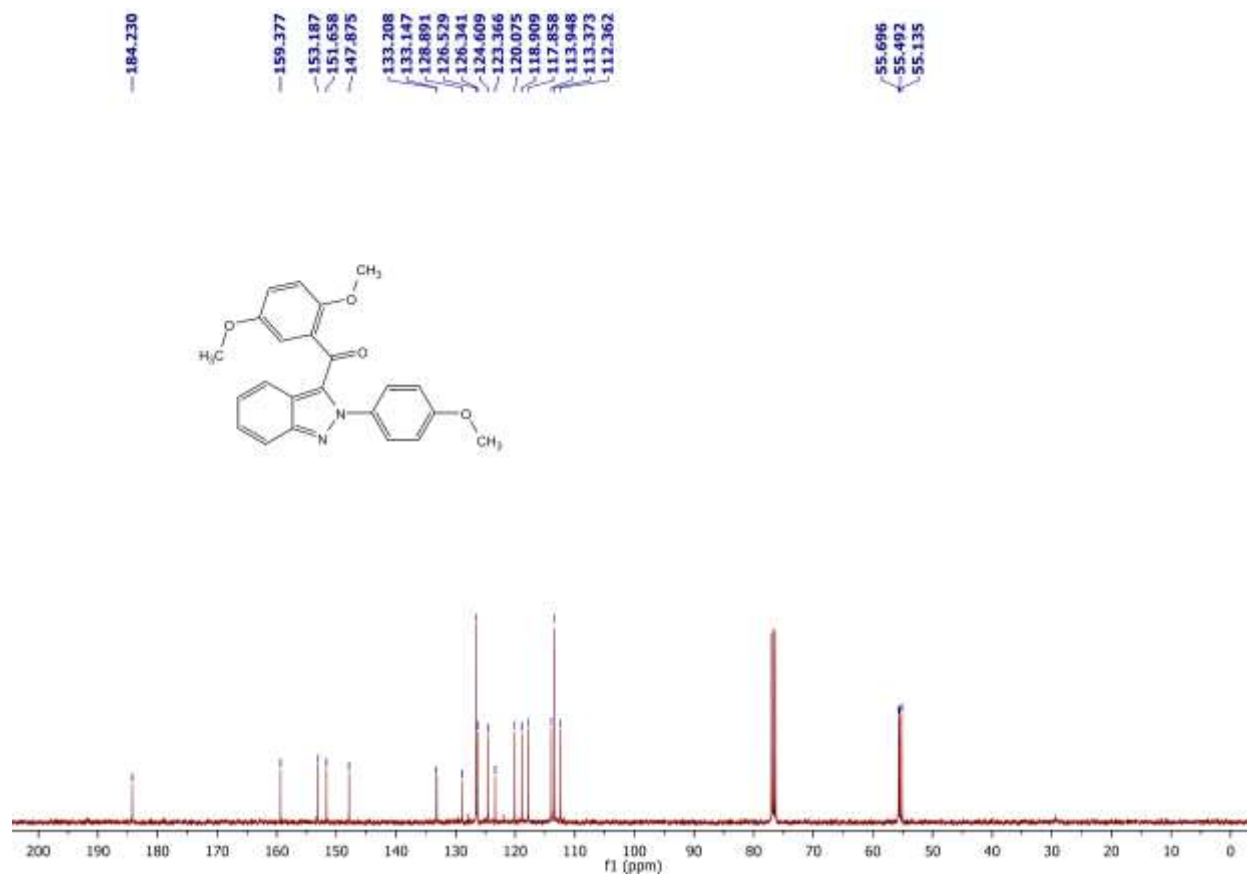
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3c**



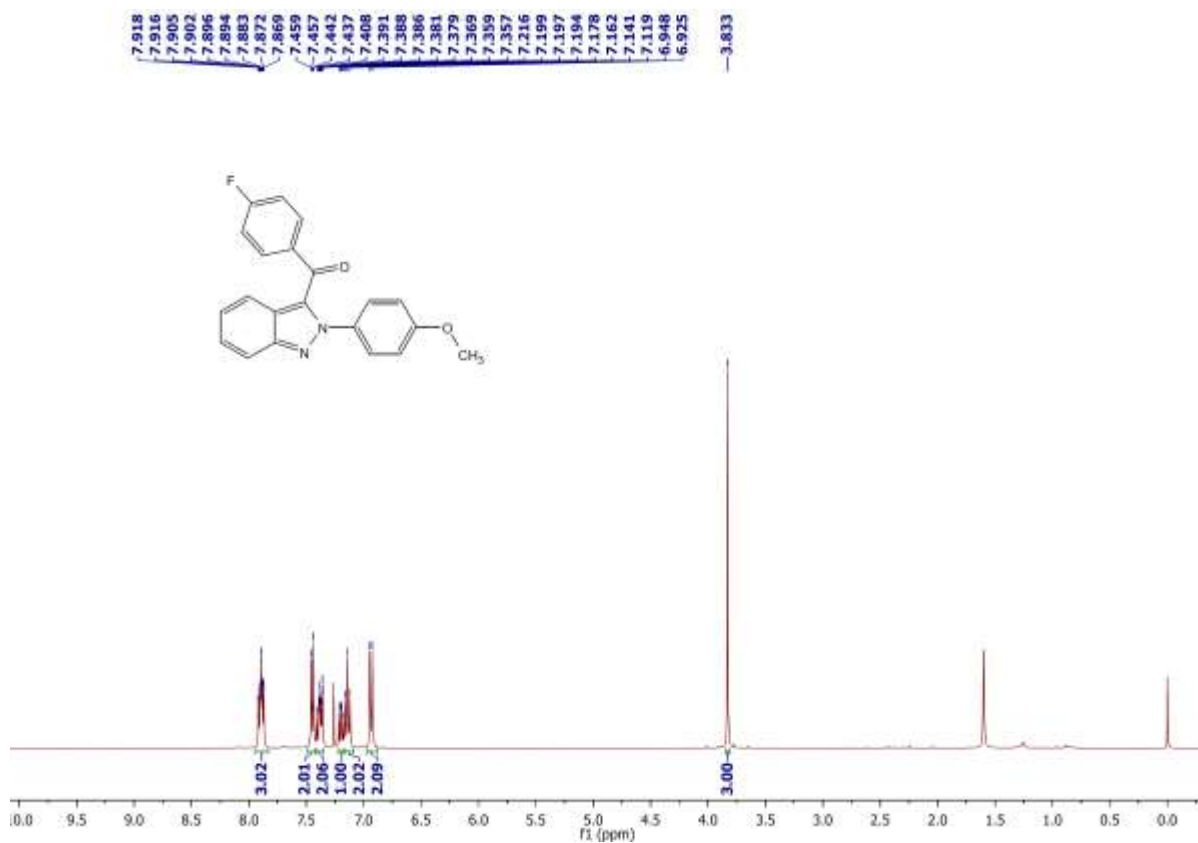
<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3c**



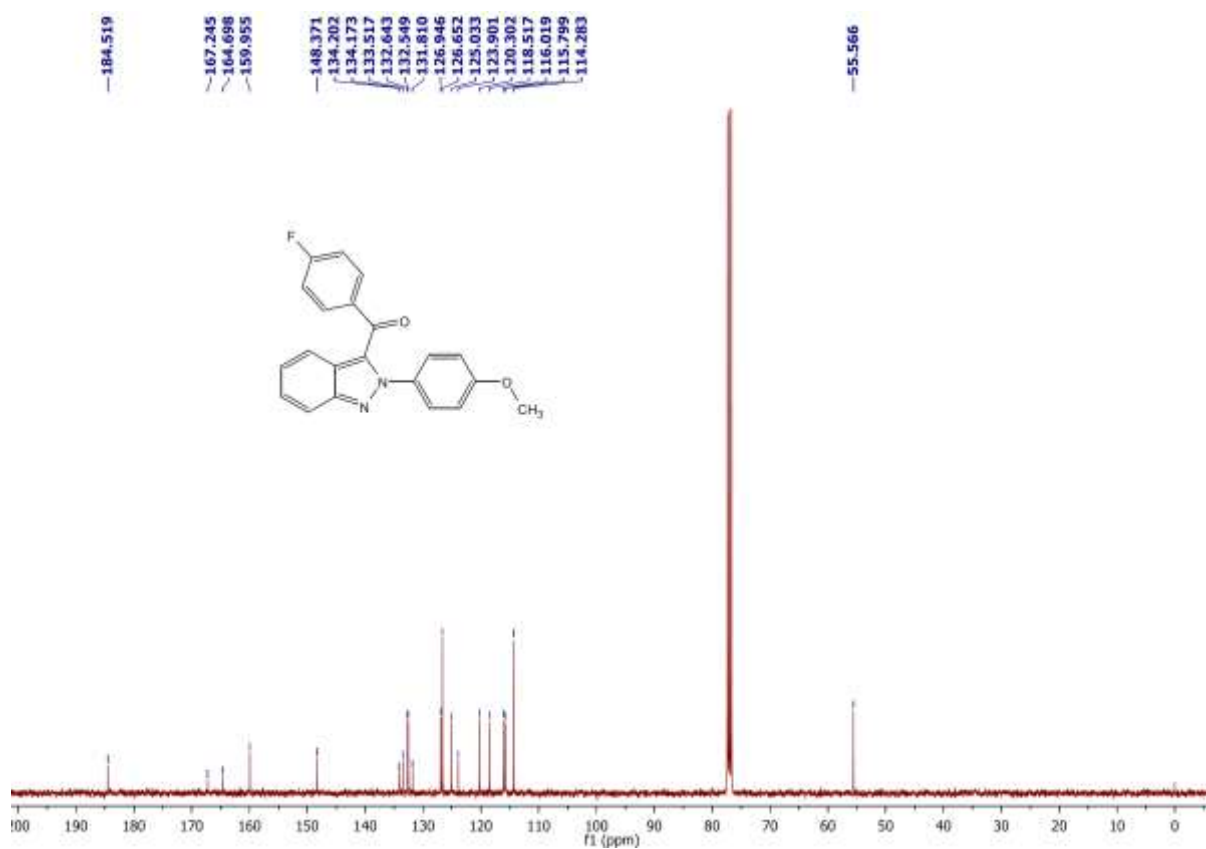
$^1\text{H NMR}$  (400 MHz, Chloroform-*d*) Spectra of **3d**



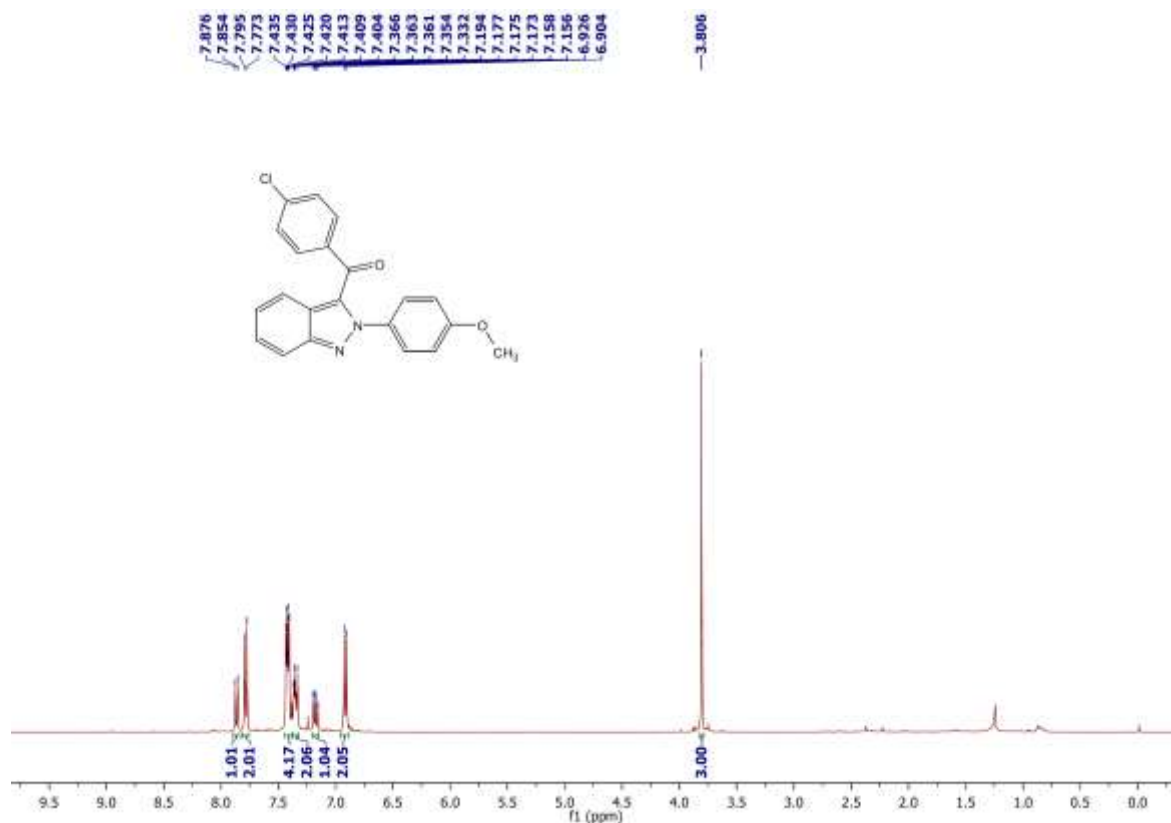
$^{13}\text{C NMR}$  (100 MHz, Chloroform-*d*) Spectra of **3d**



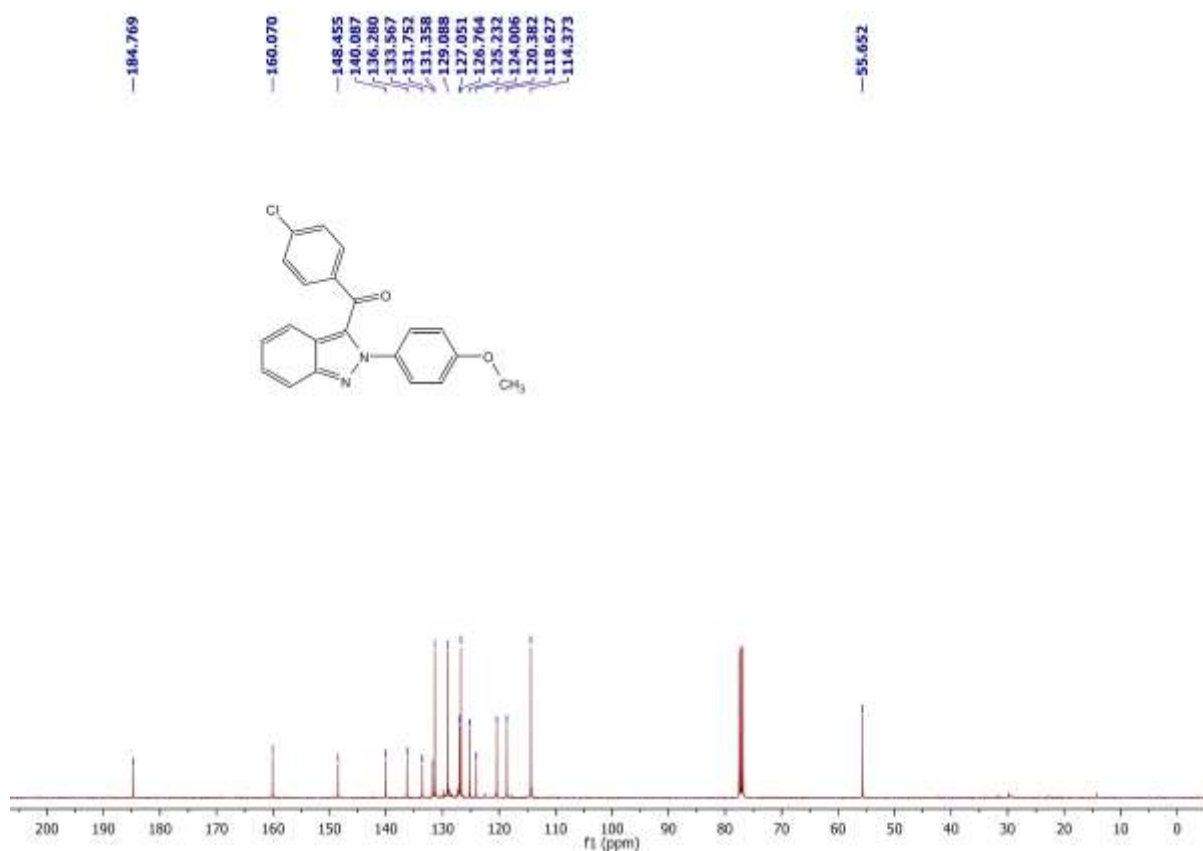
$^1\text{H NMR}$  (400 MHz, Chloroform-*d*) Spectra of **3e**



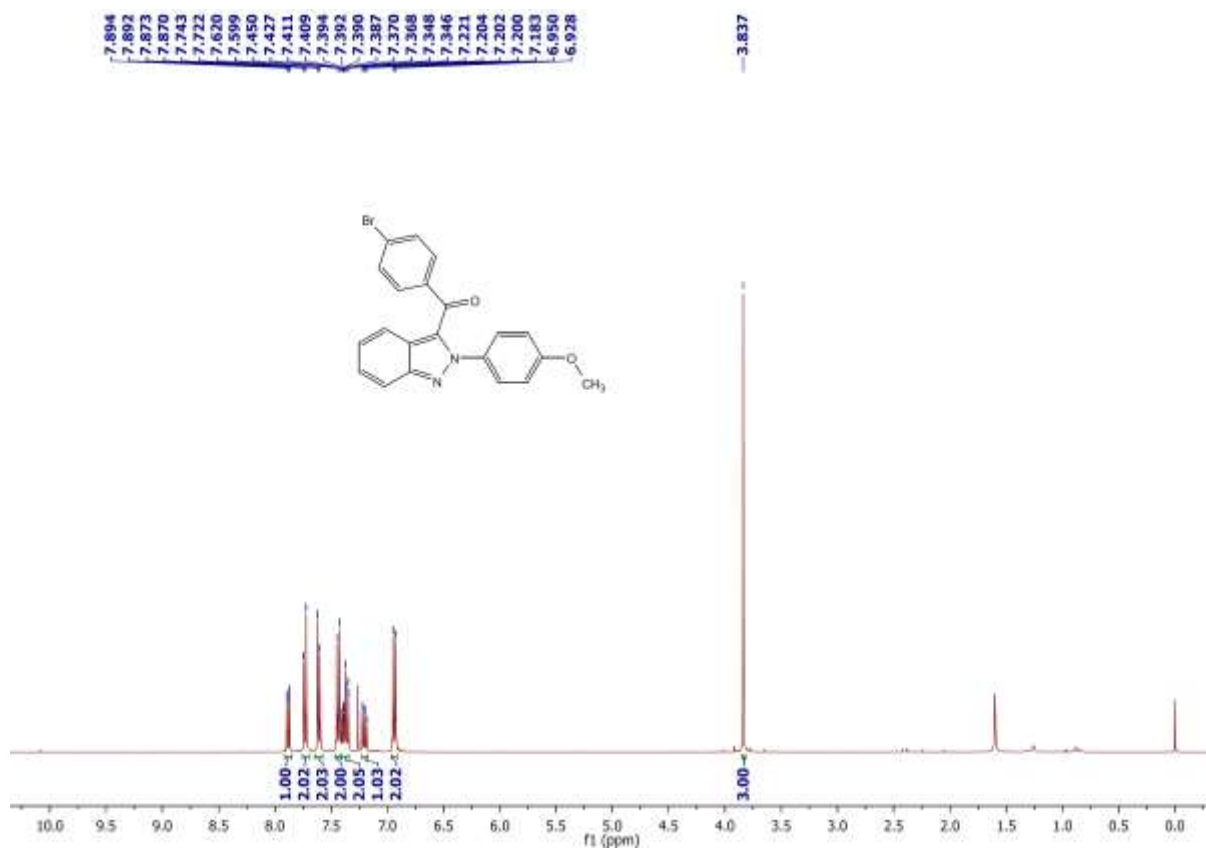
$^{13}\text{C NMR}$  (100 MHz, Chloroform-*d*) Spectra of **3e**



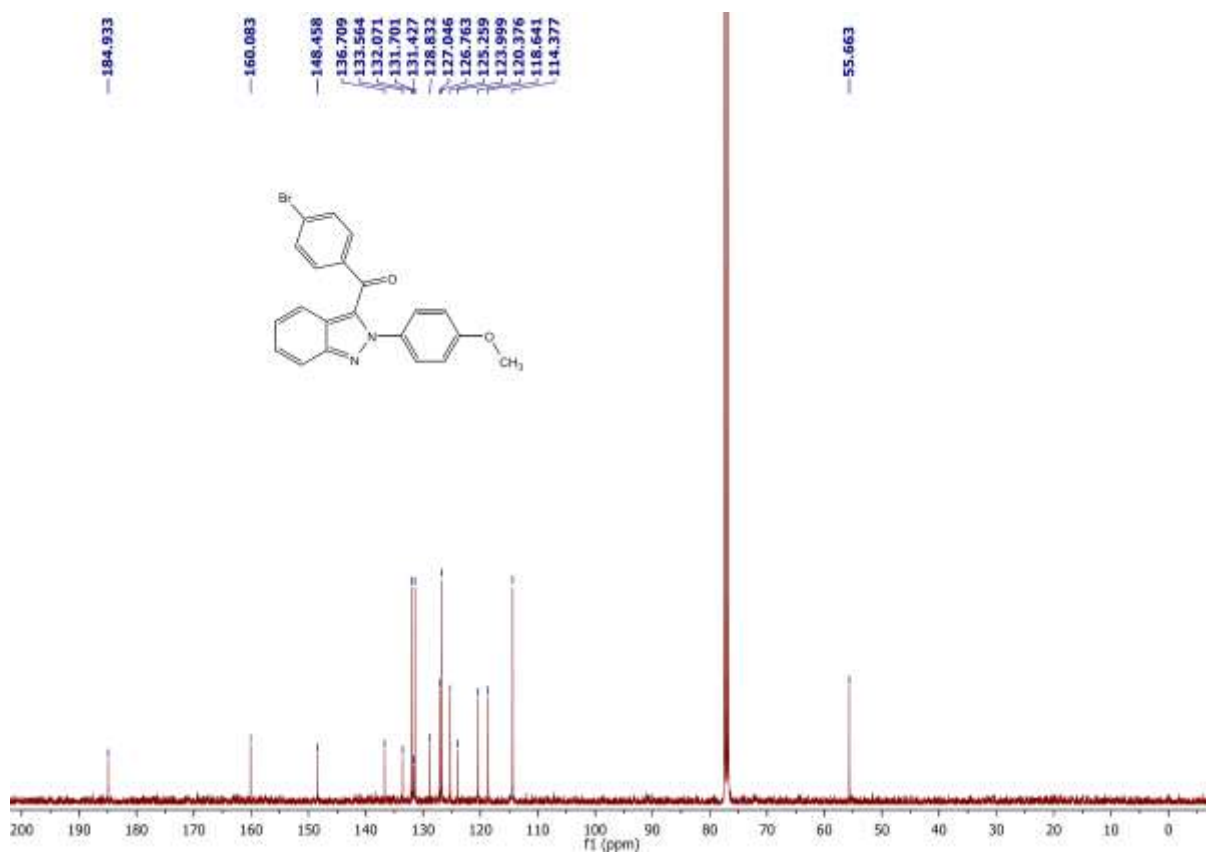
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3f**



<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3f**

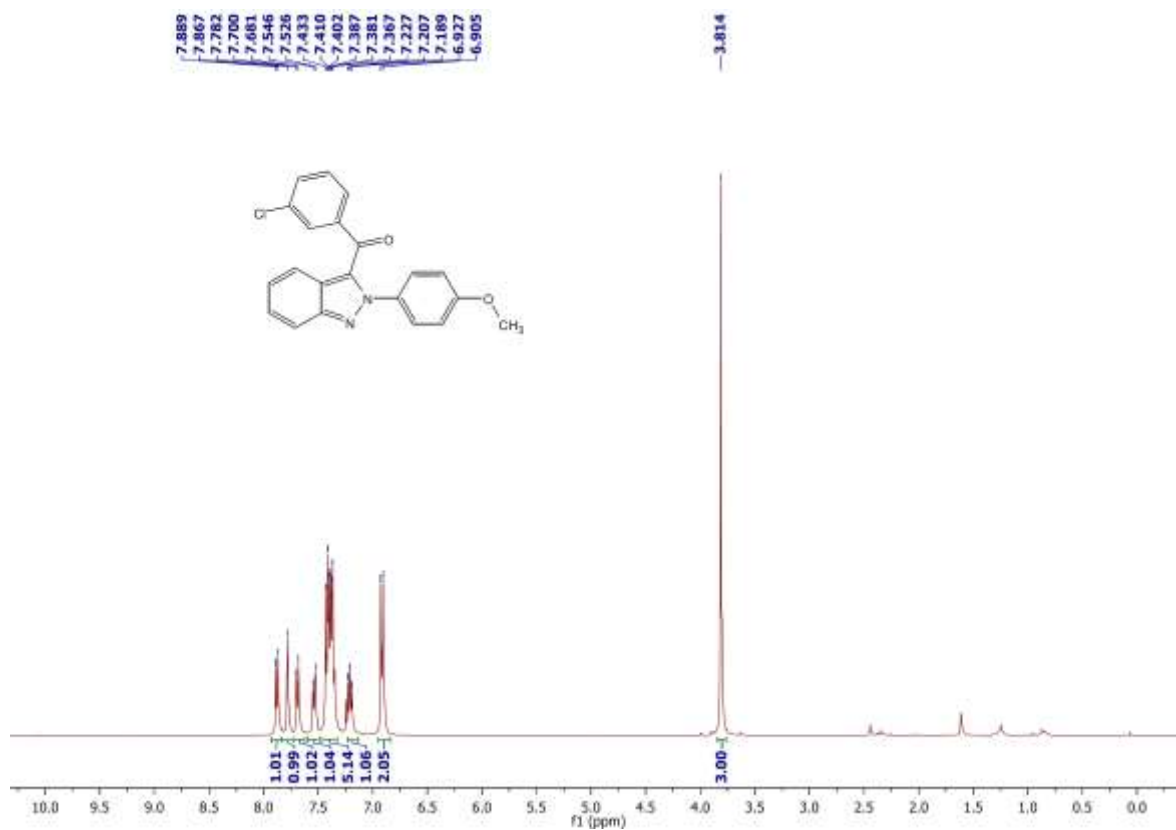


<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3g**

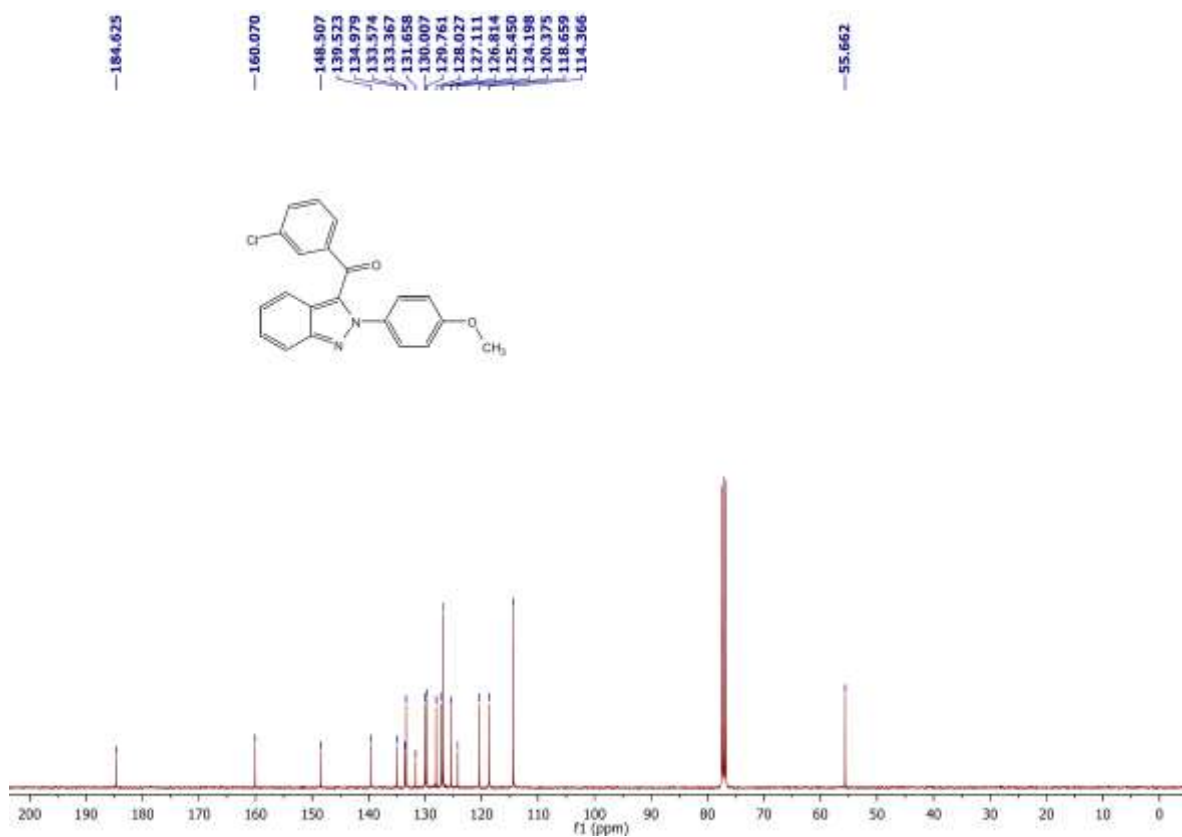


<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3g**

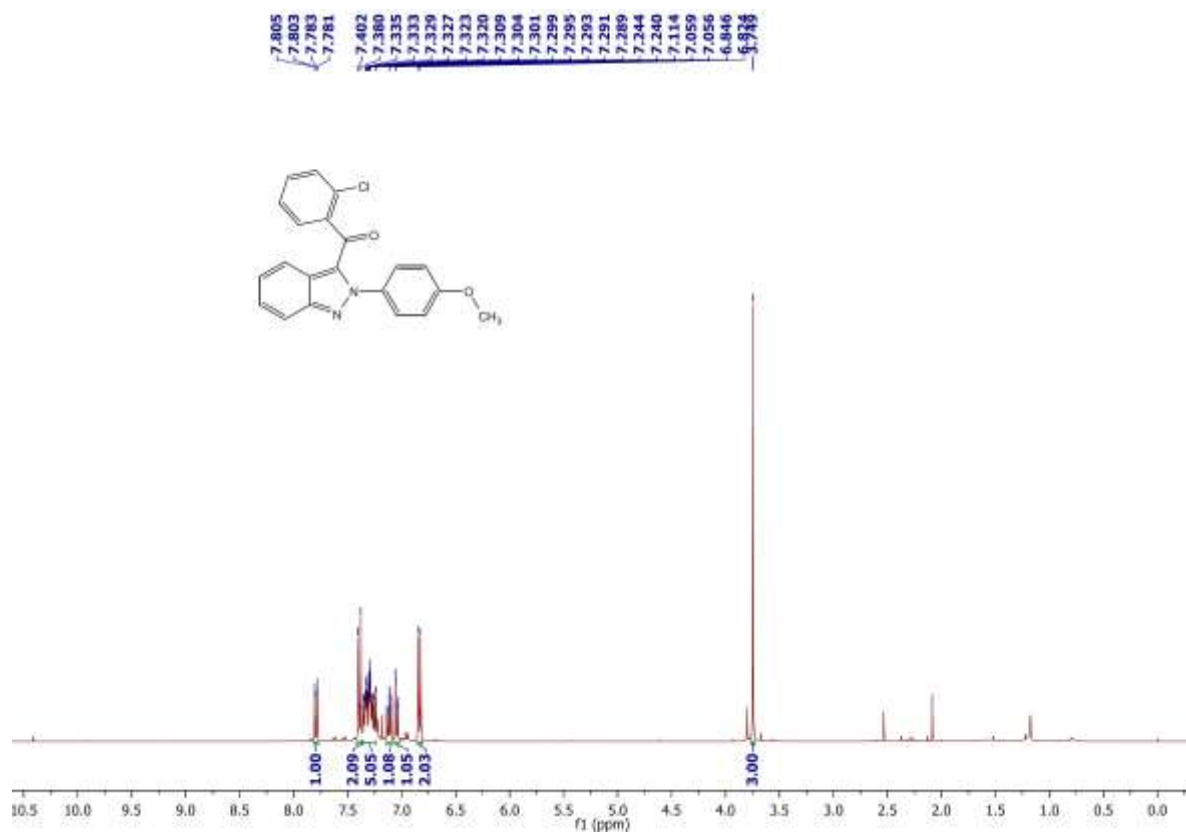




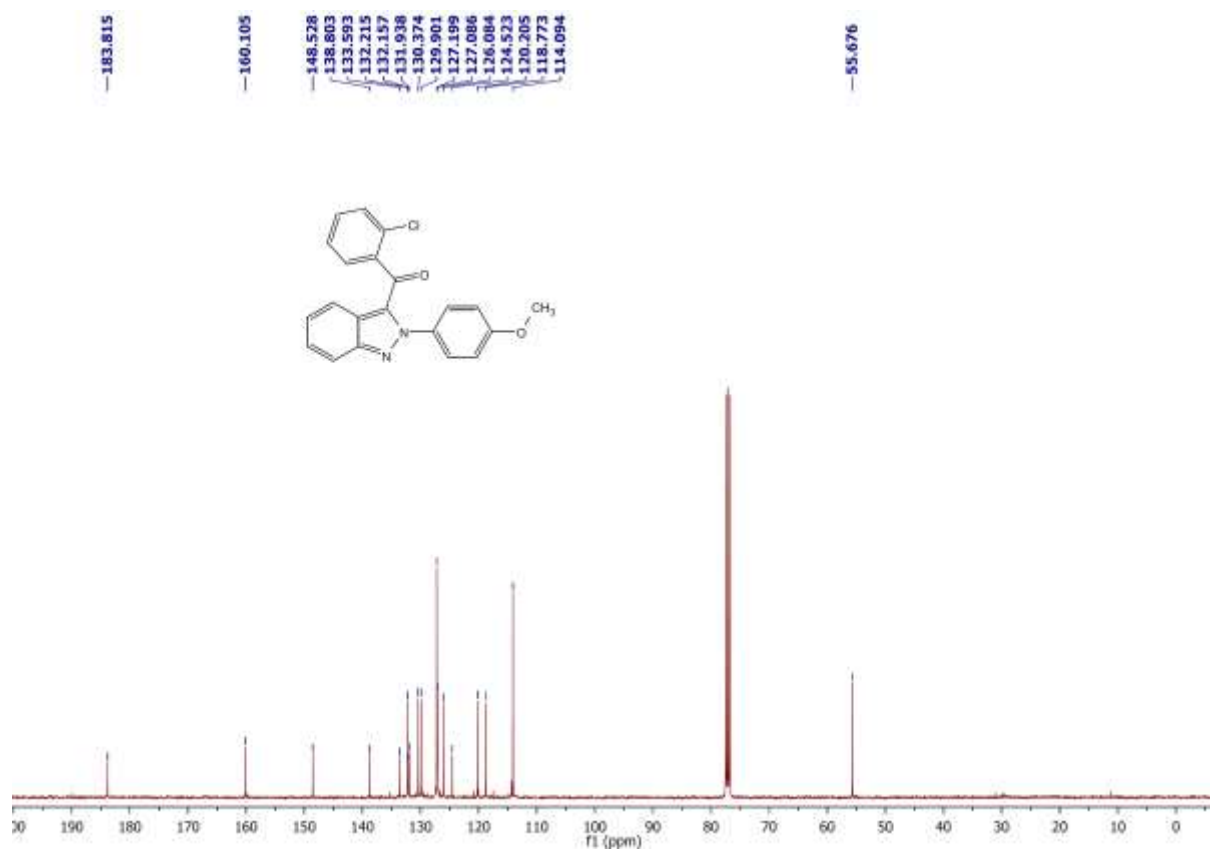
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3h**



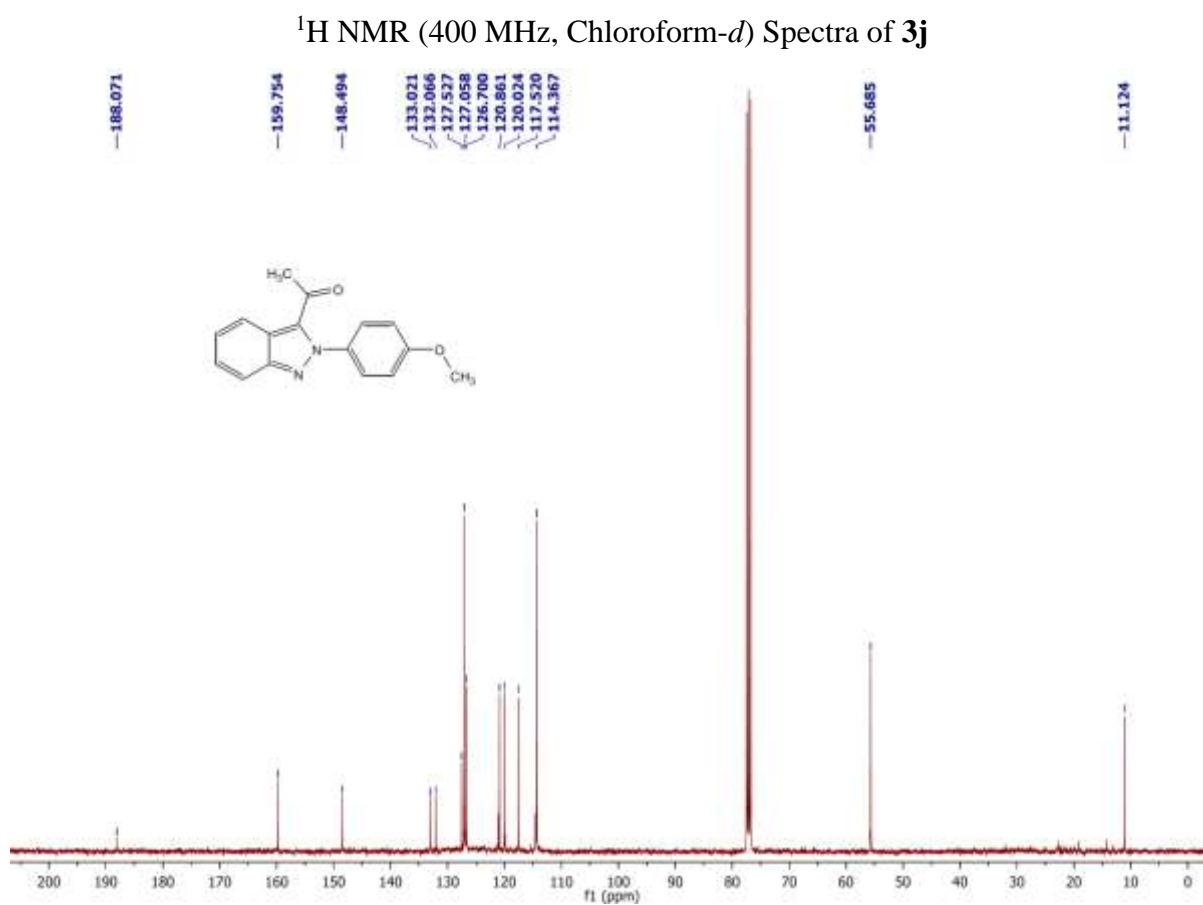
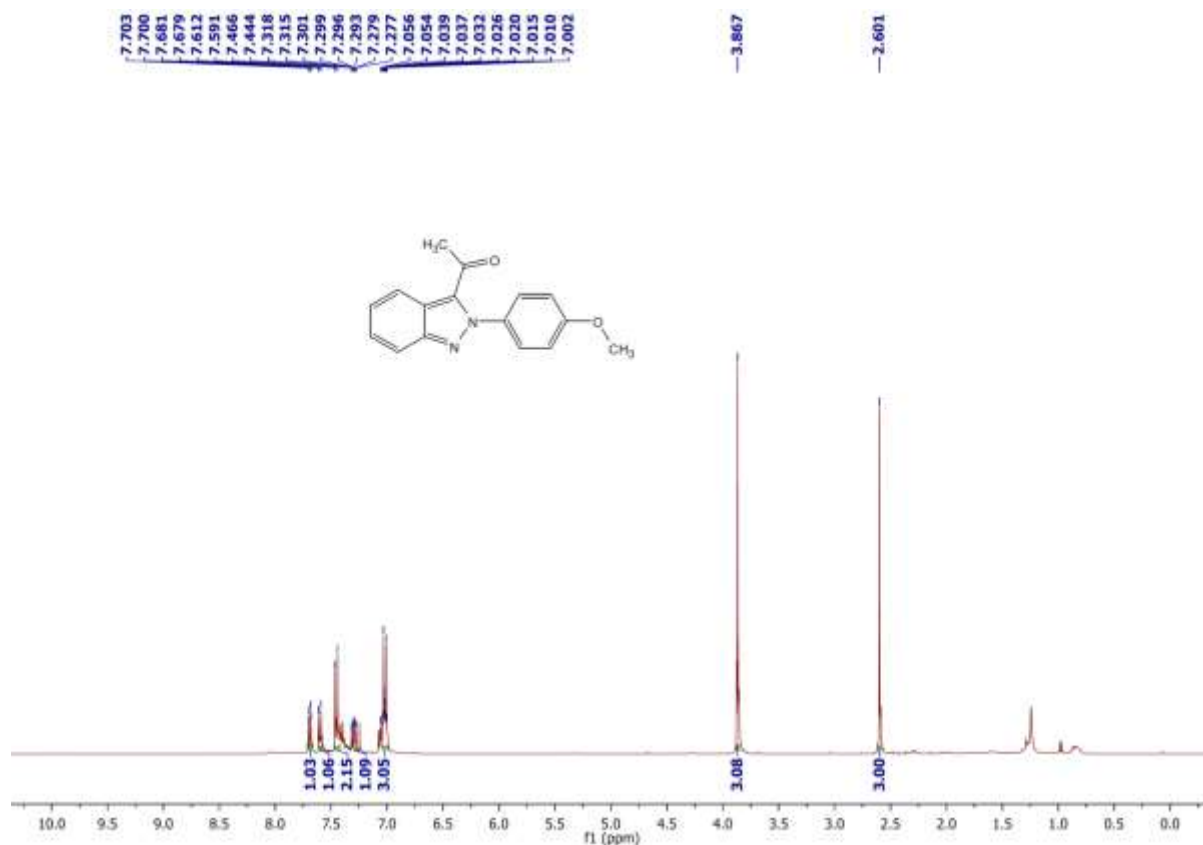
<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3h**

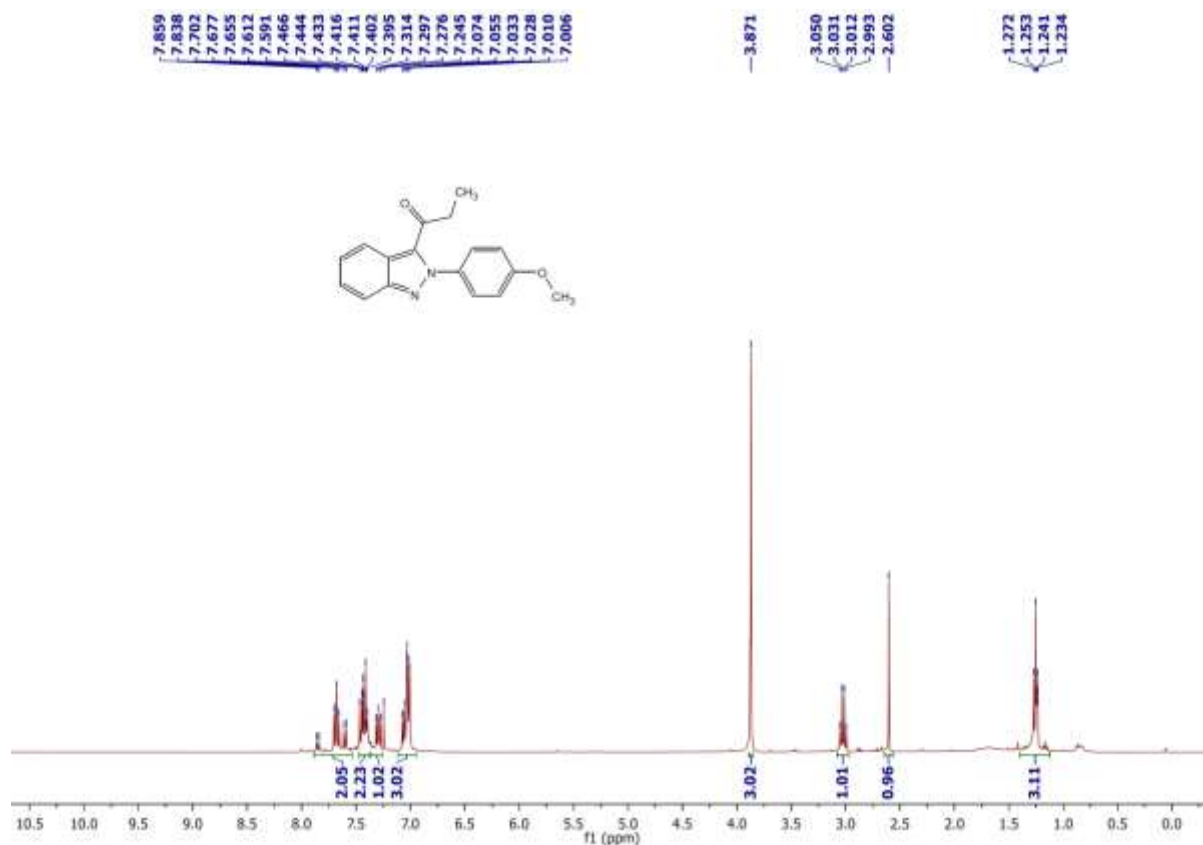


<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3i**

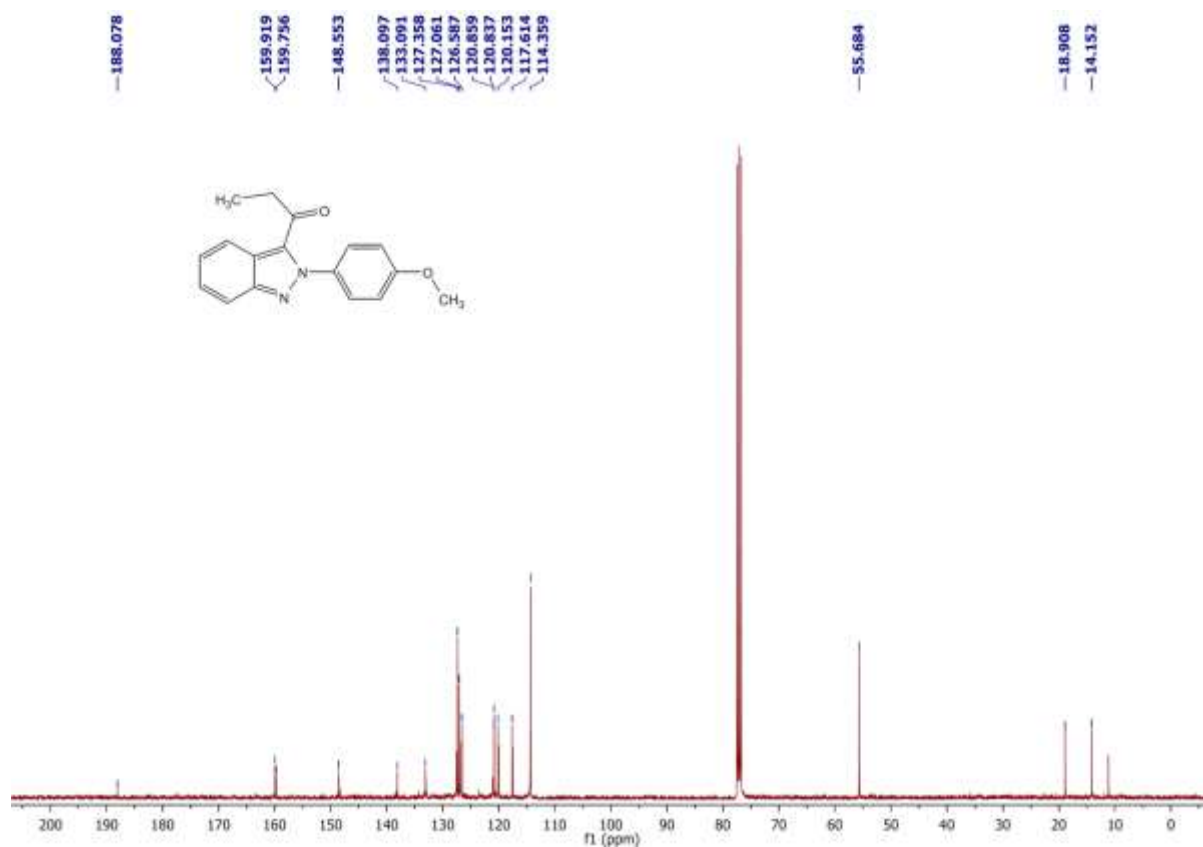


<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3i**

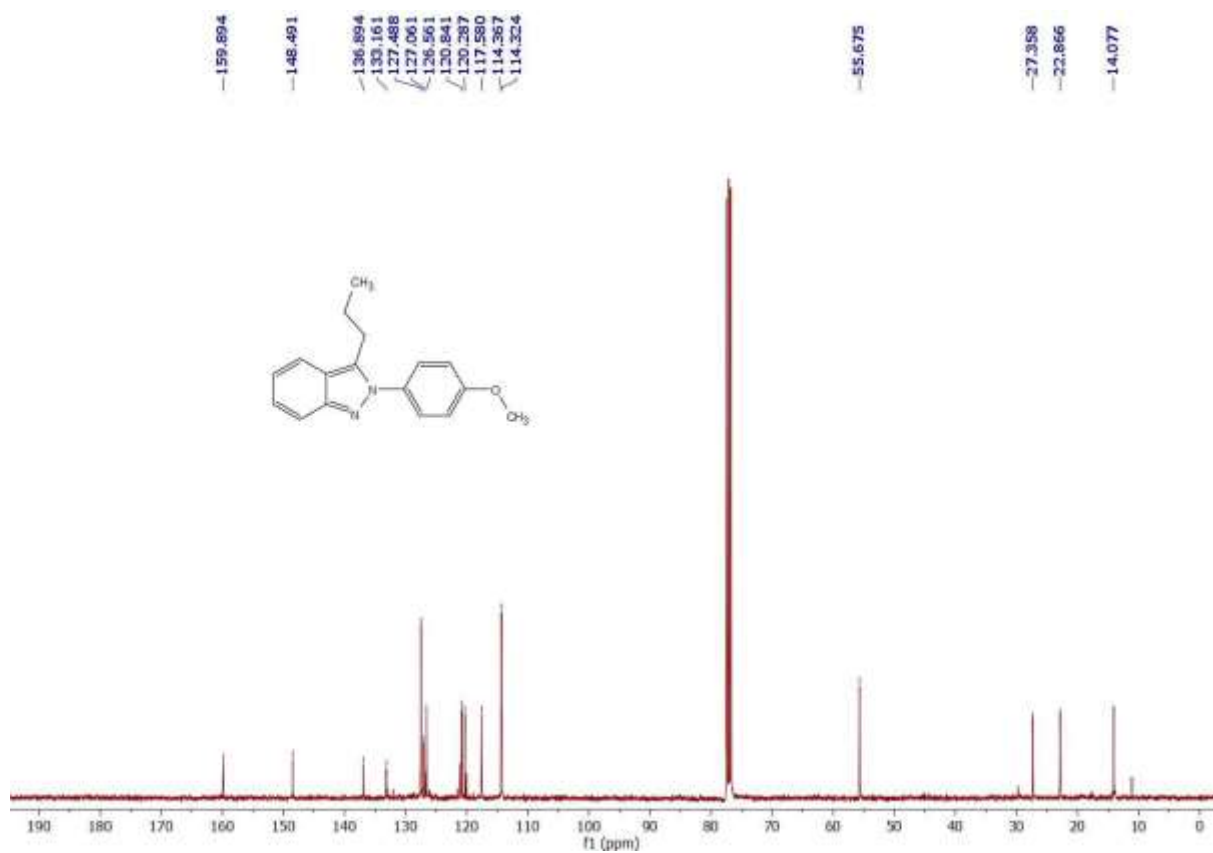
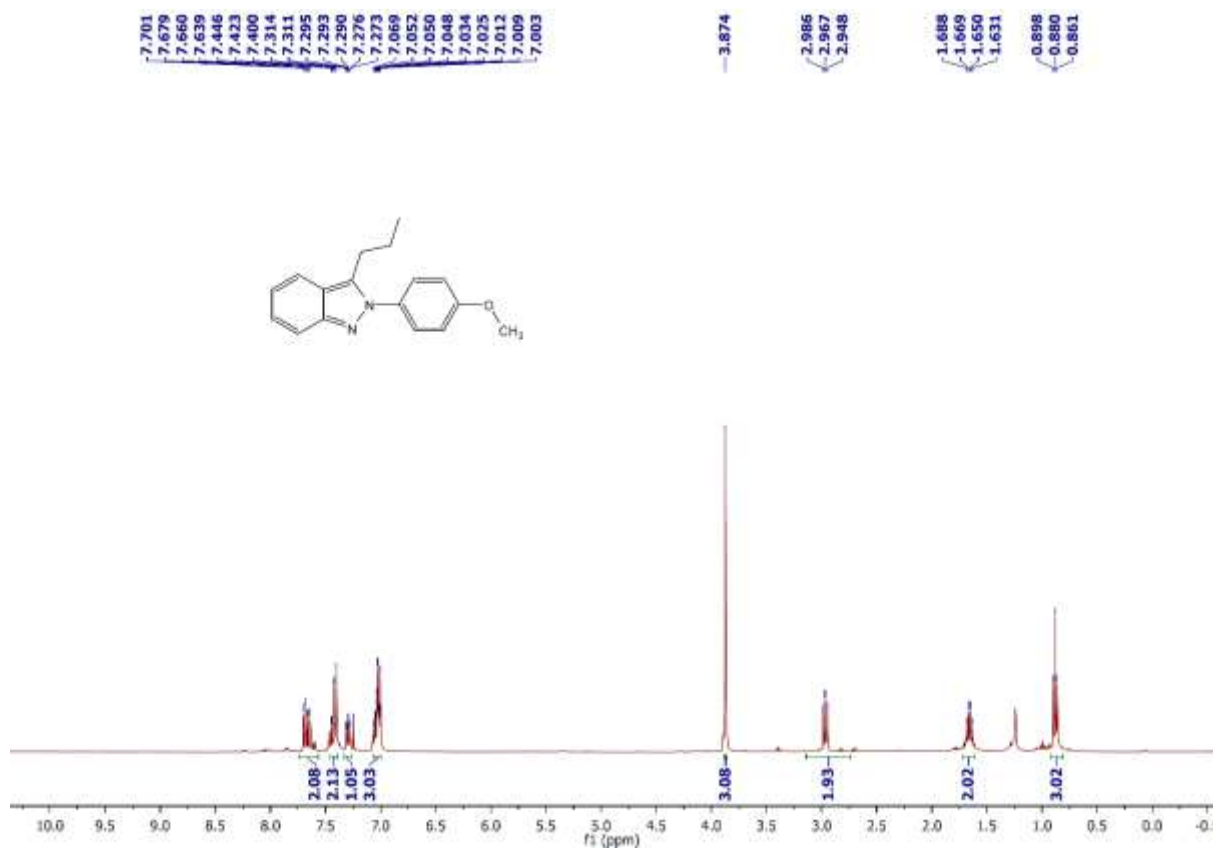


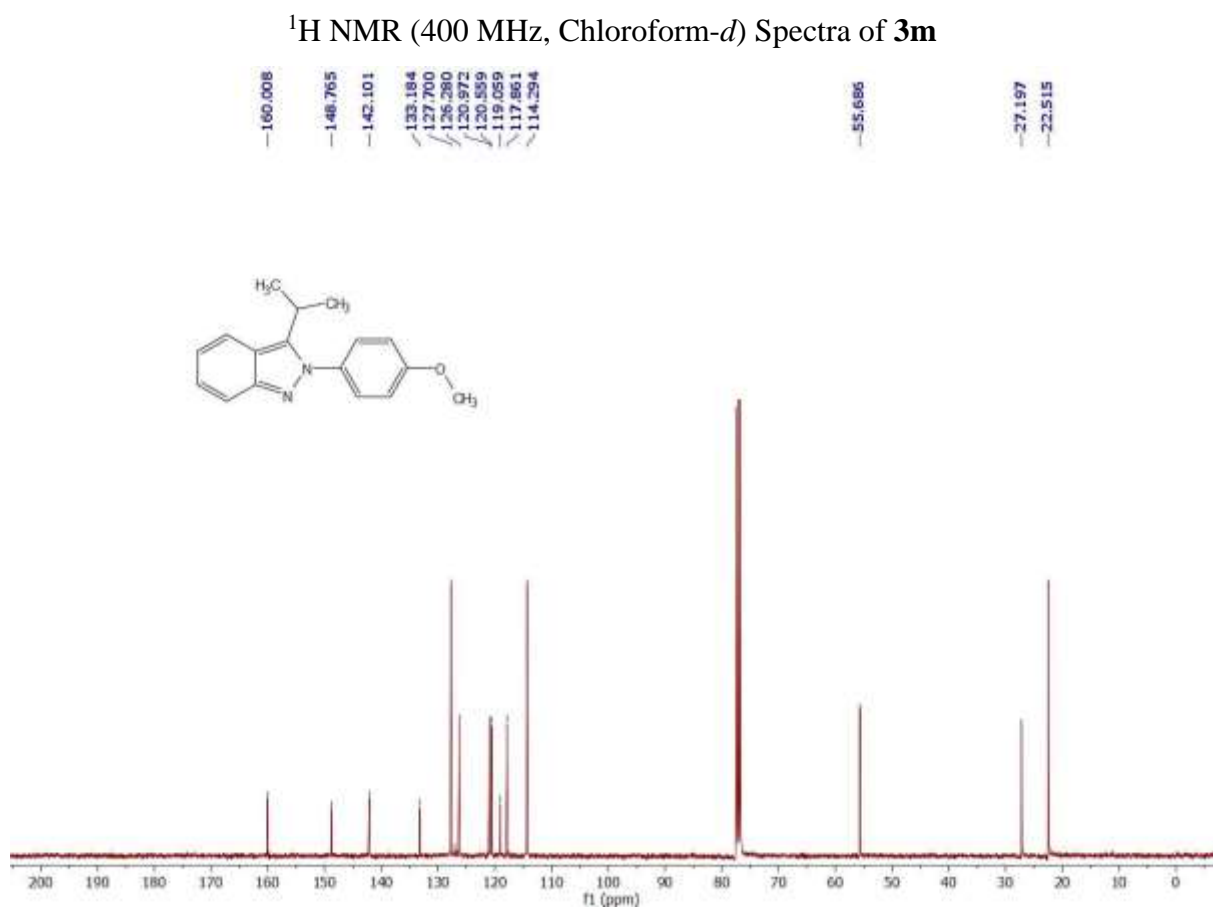
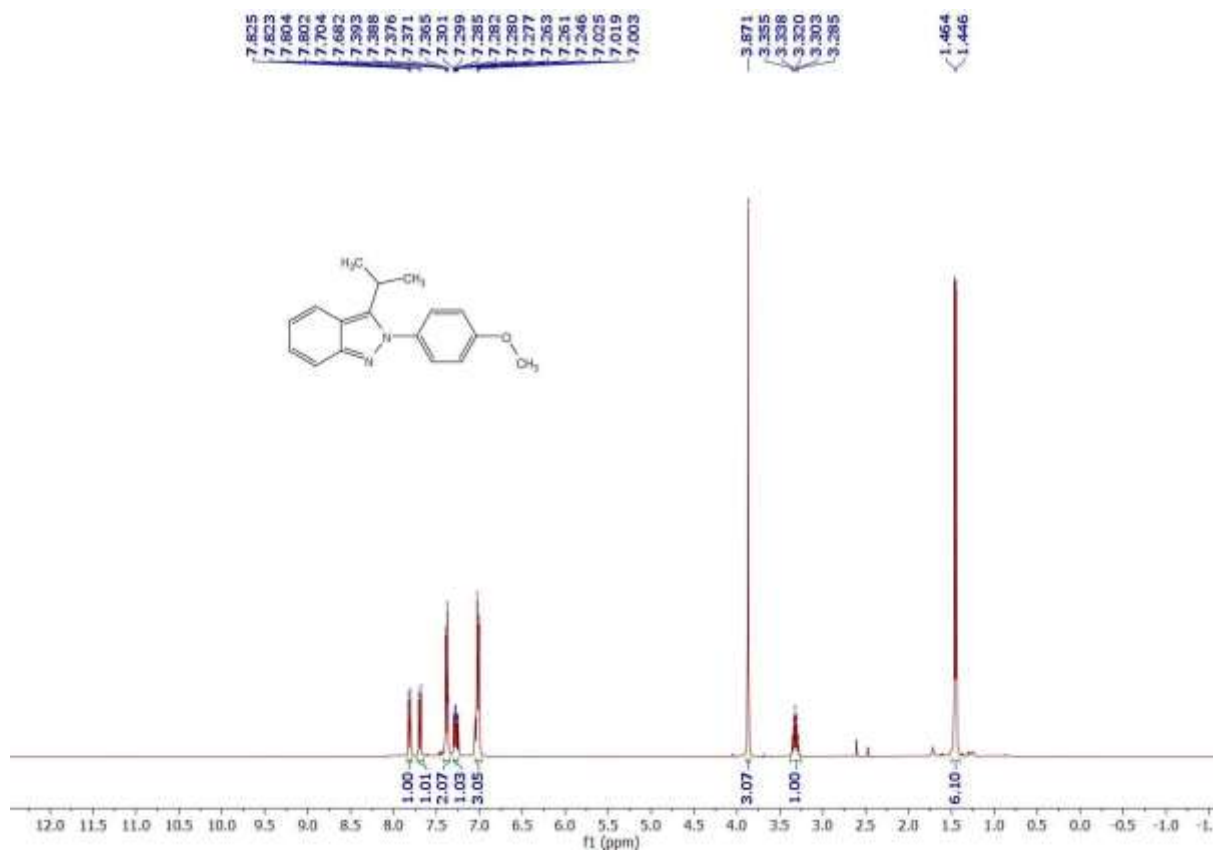


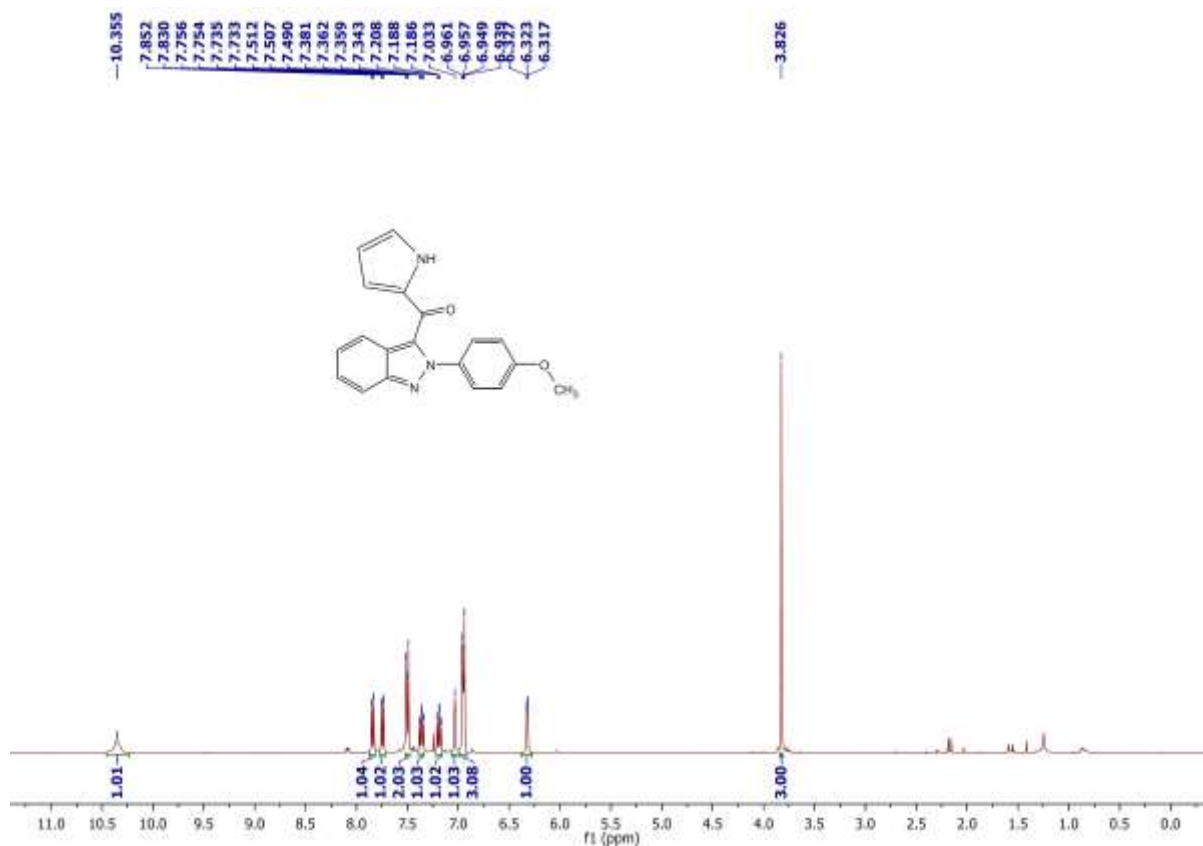
$^1\text{H}$  NMR (400 MHz, Chloroform-*d*) Spectra of **3k**



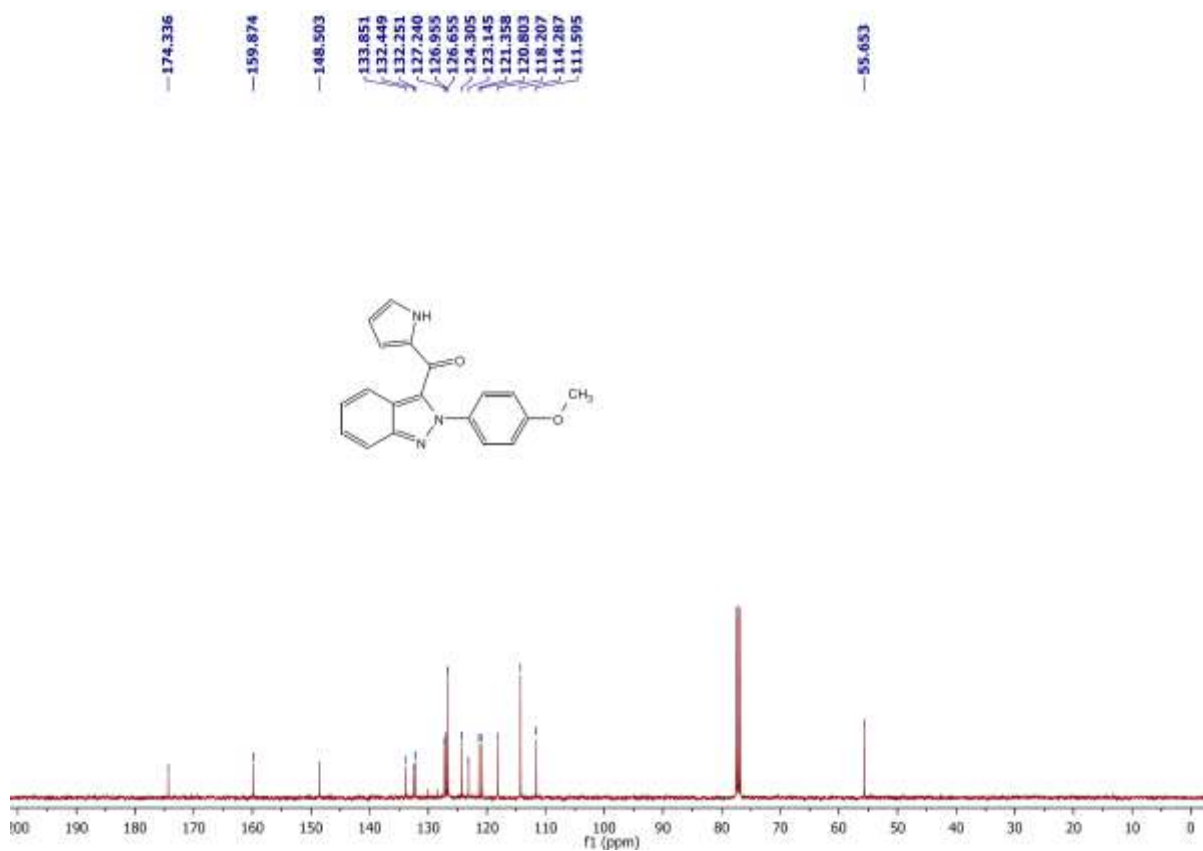
$^{13}\text{C}$  NMR (100 MHz, Chloroform-*d*) Spectra of **3k**



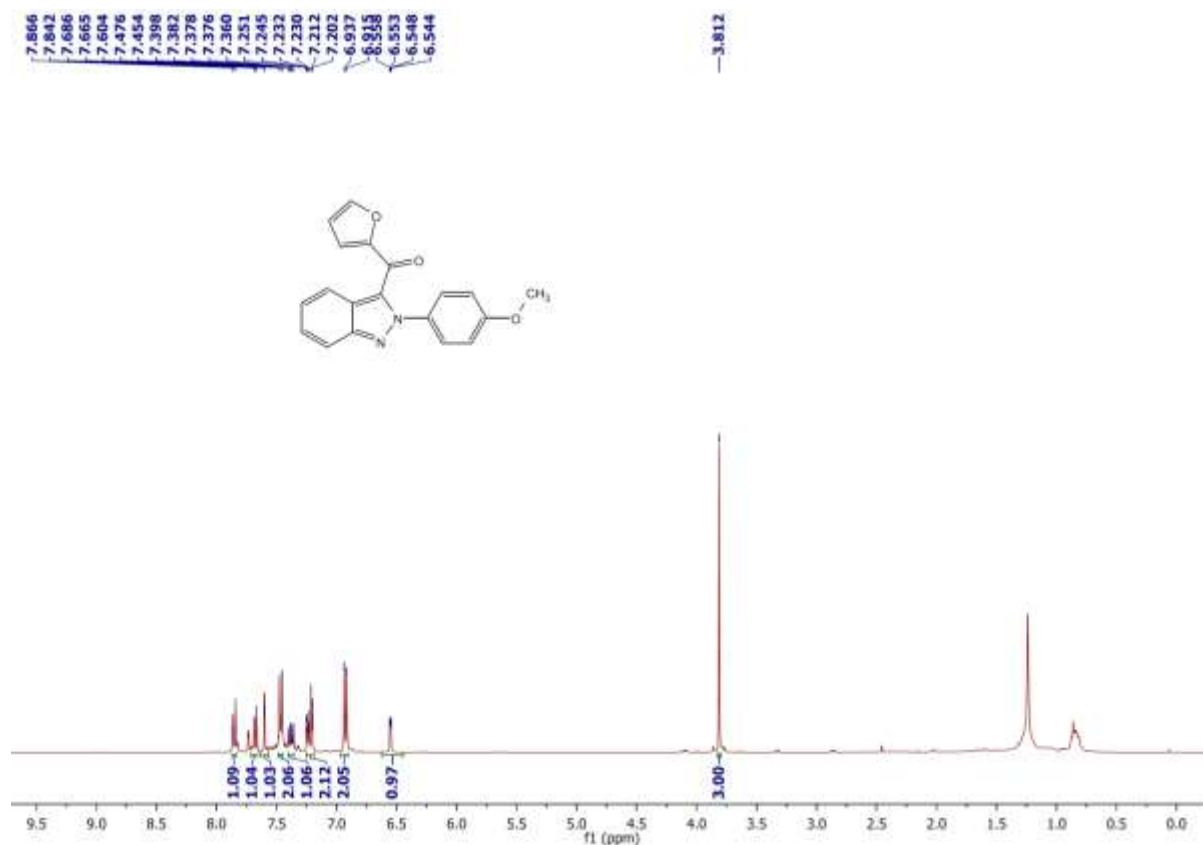




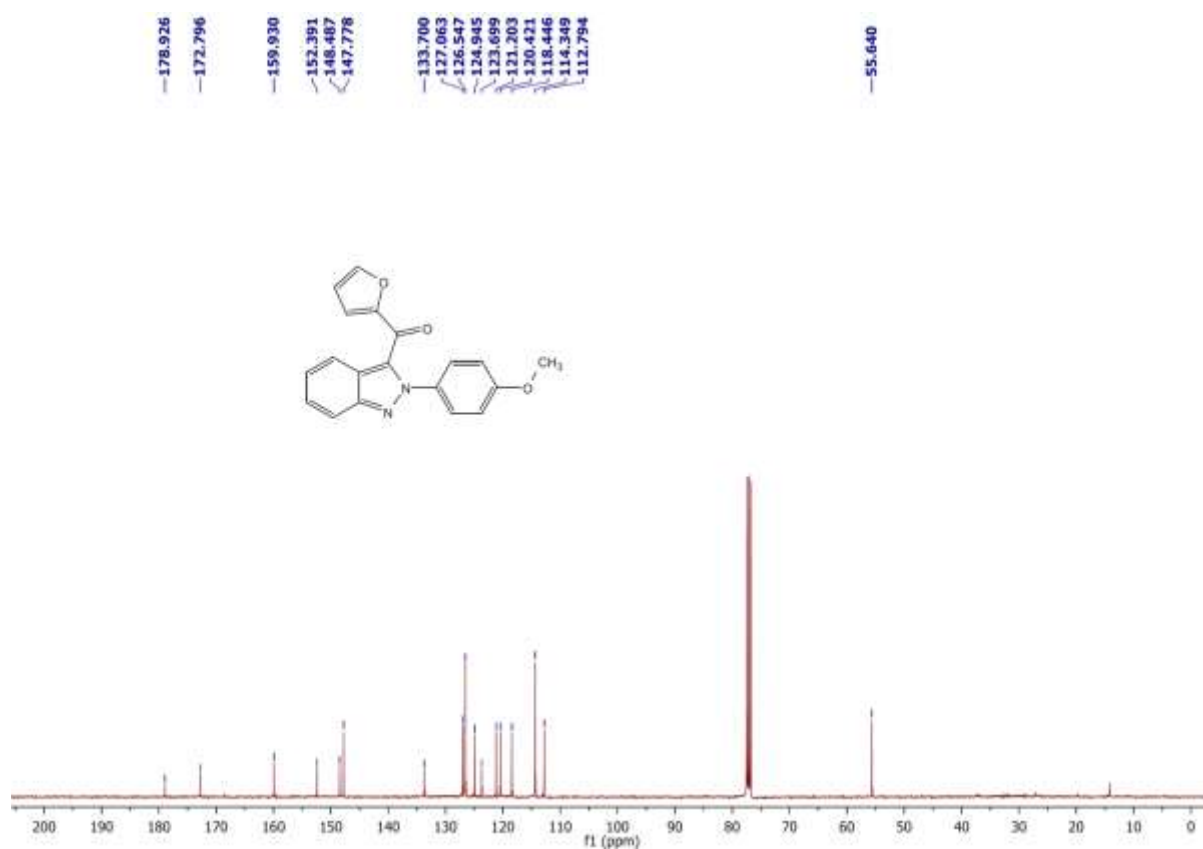
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3n**



<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3n**

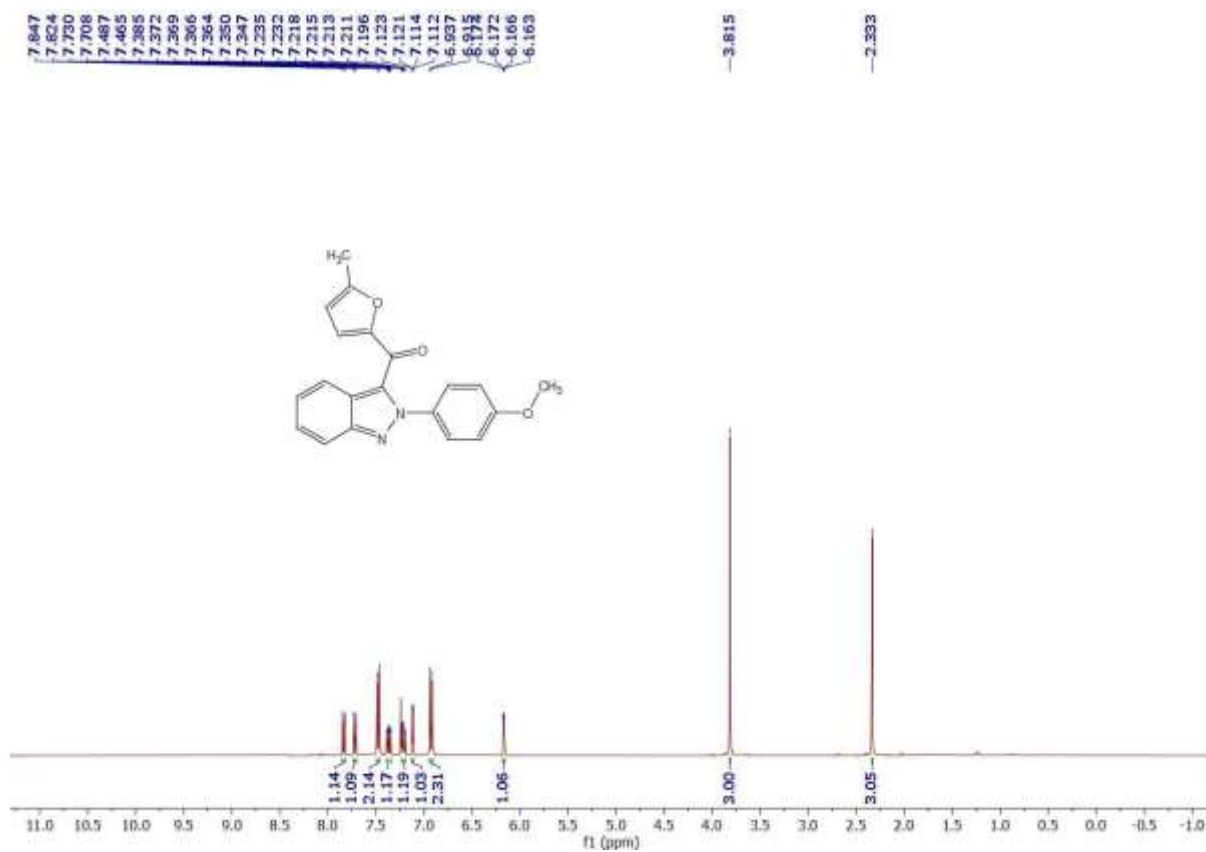


<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3o**

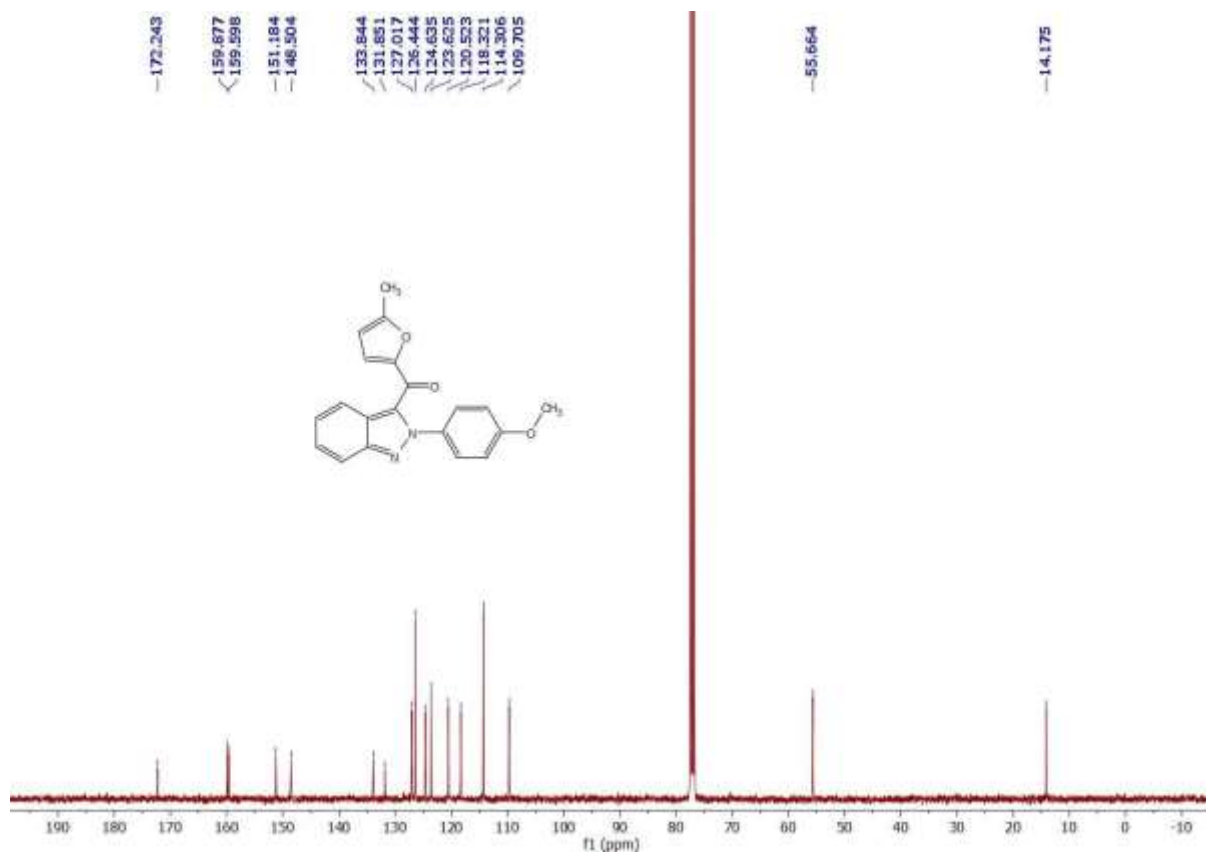


<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3o**

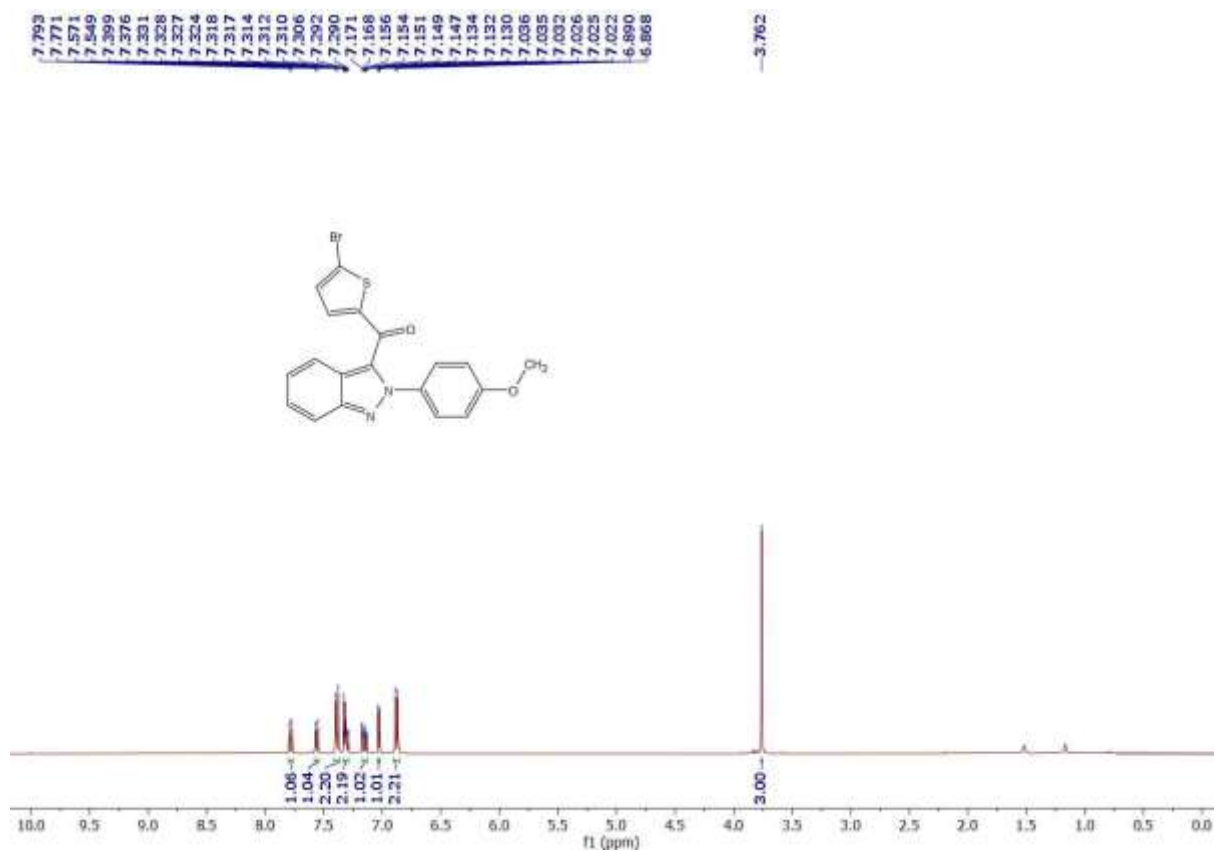




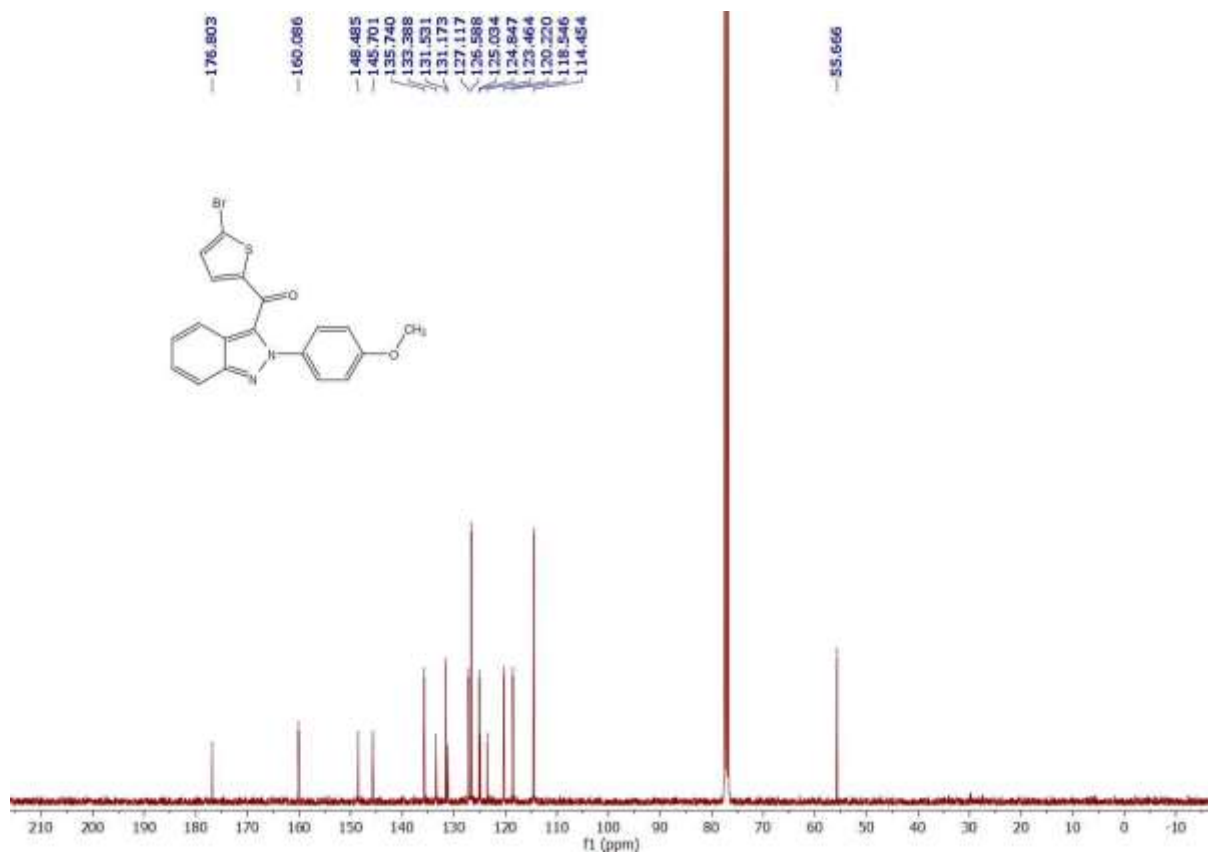
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **3p**



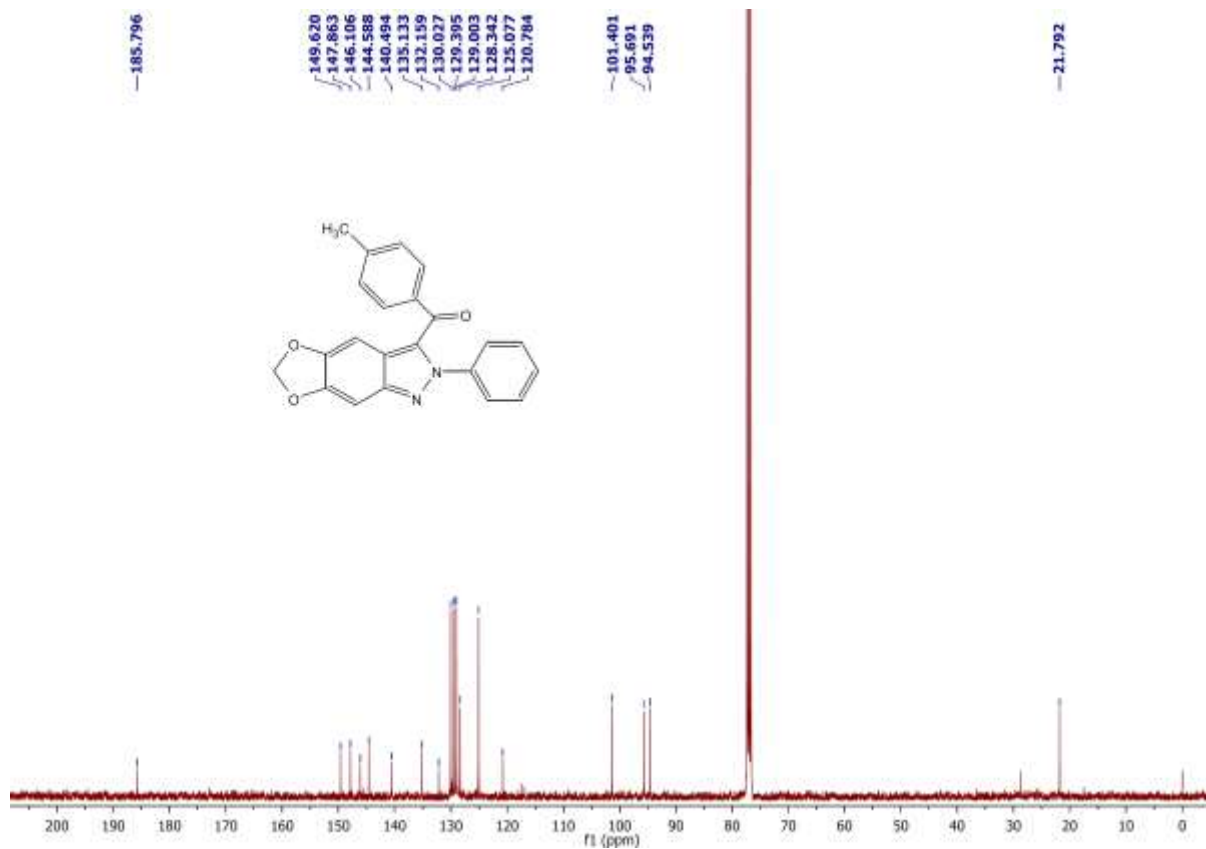
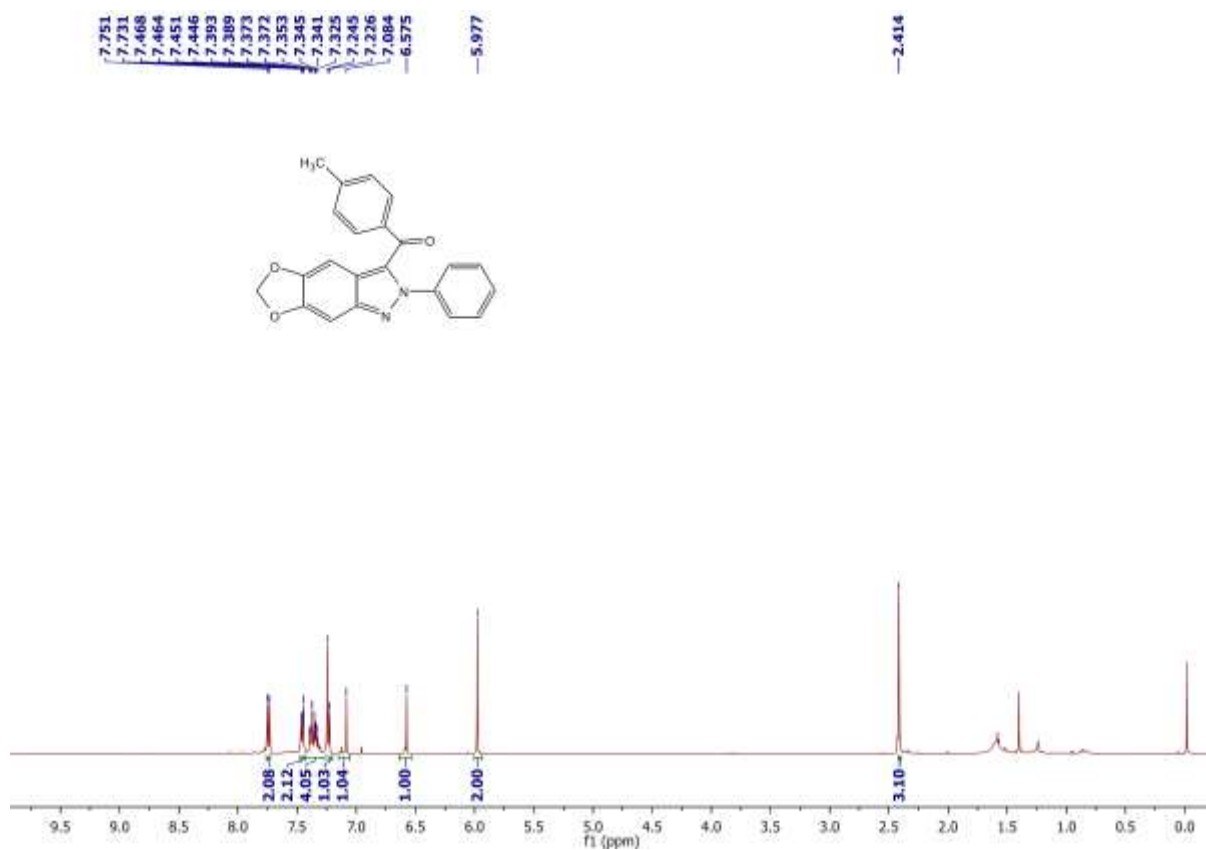
<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **3p**

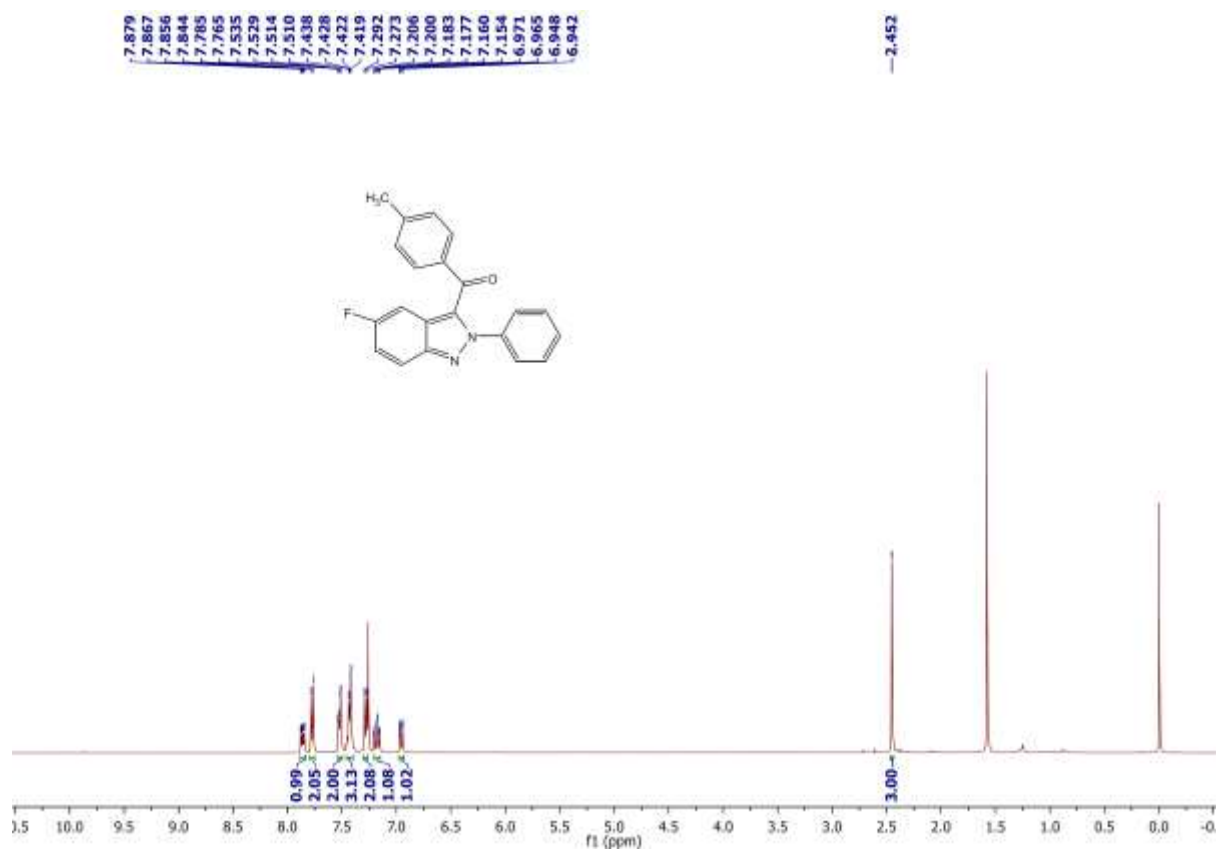


$^1\text{H}$  NMR (400 MHz, Chloroform-*d*) Spectra of **3q**

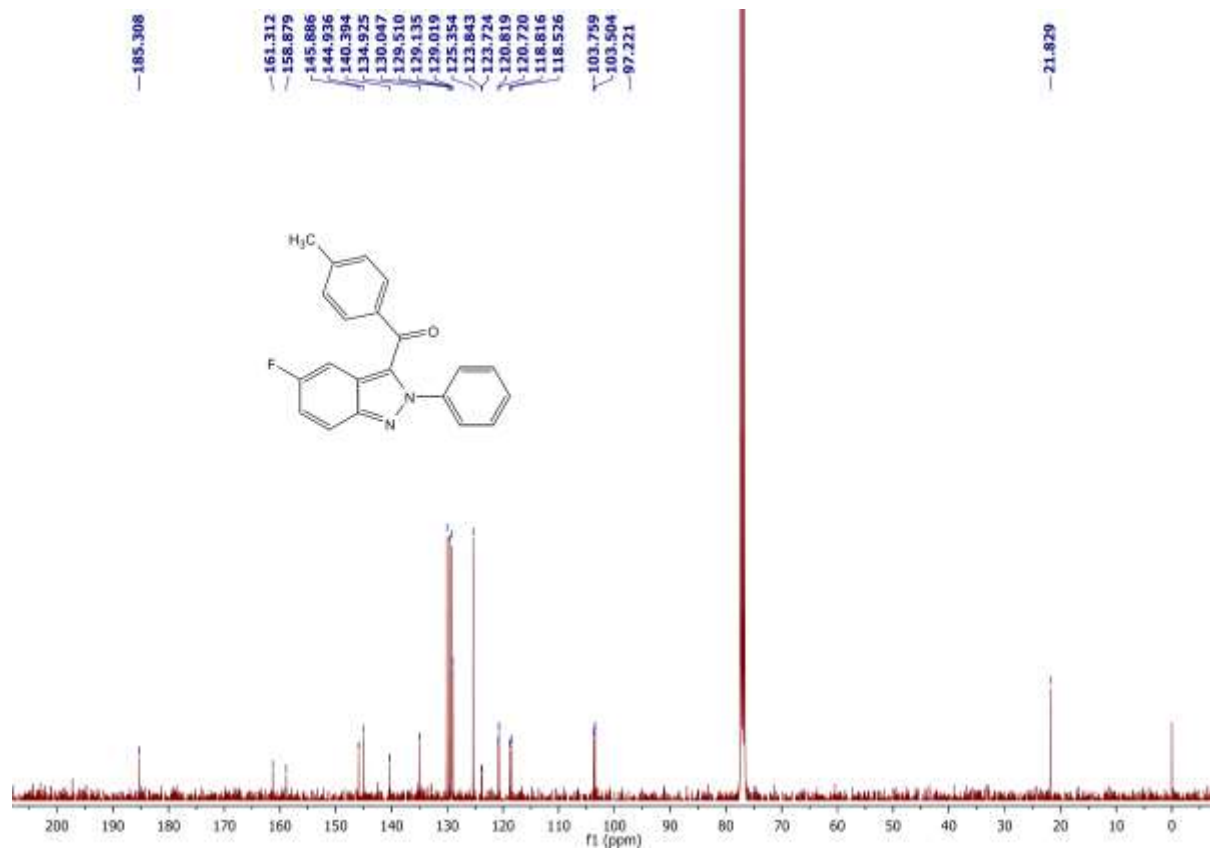


$^{13}\text{C}$  NMR (100 MHz, Chloroform-*d*) Spectra of **3q**

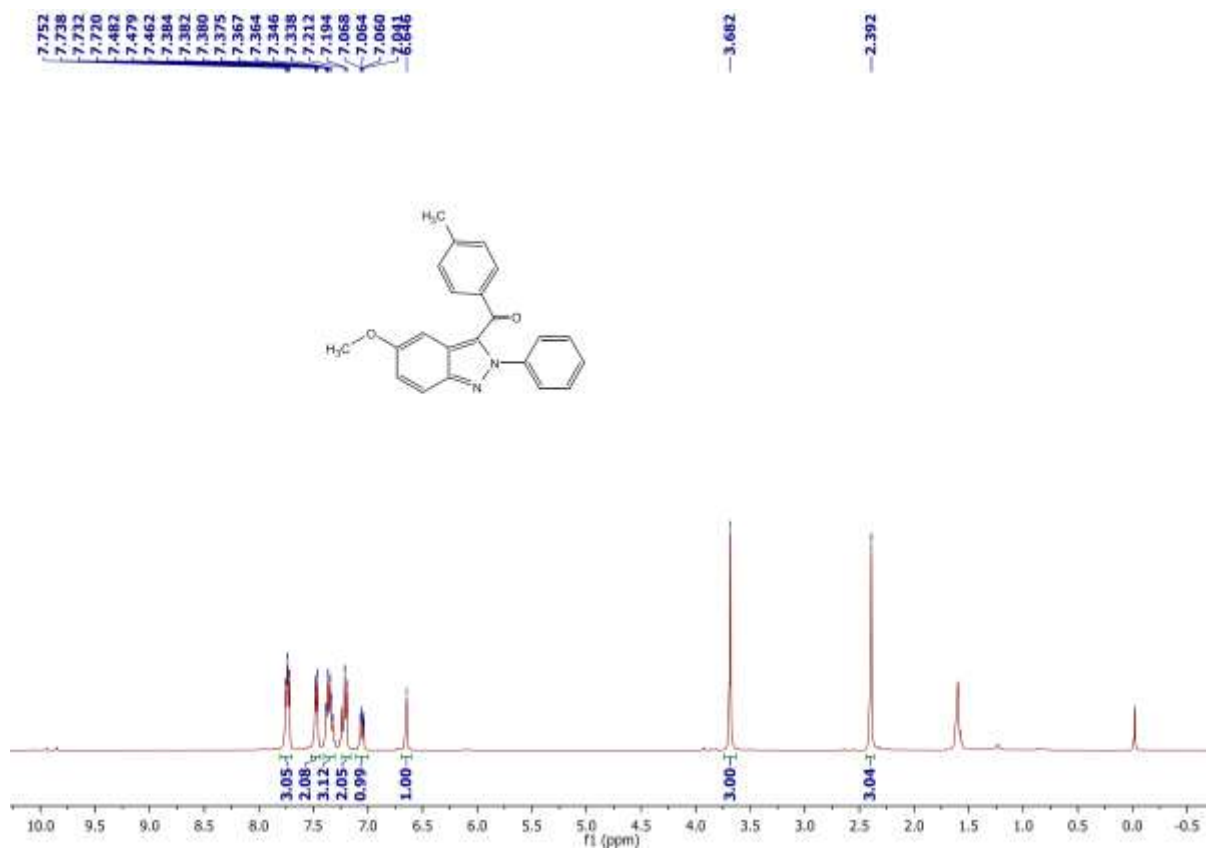




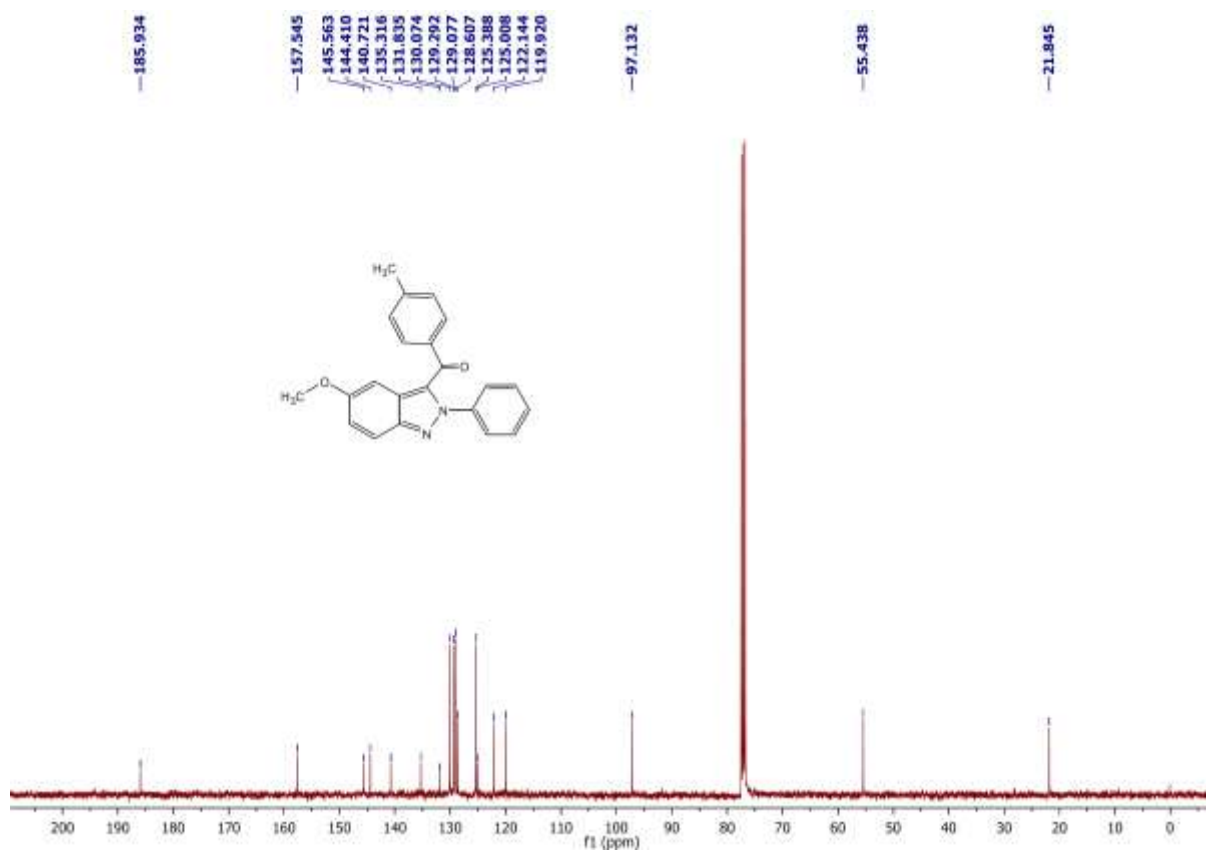
$^1\text{H NMR}$  (400 MHz, Chloroform-*d*) Spectra of **4b**



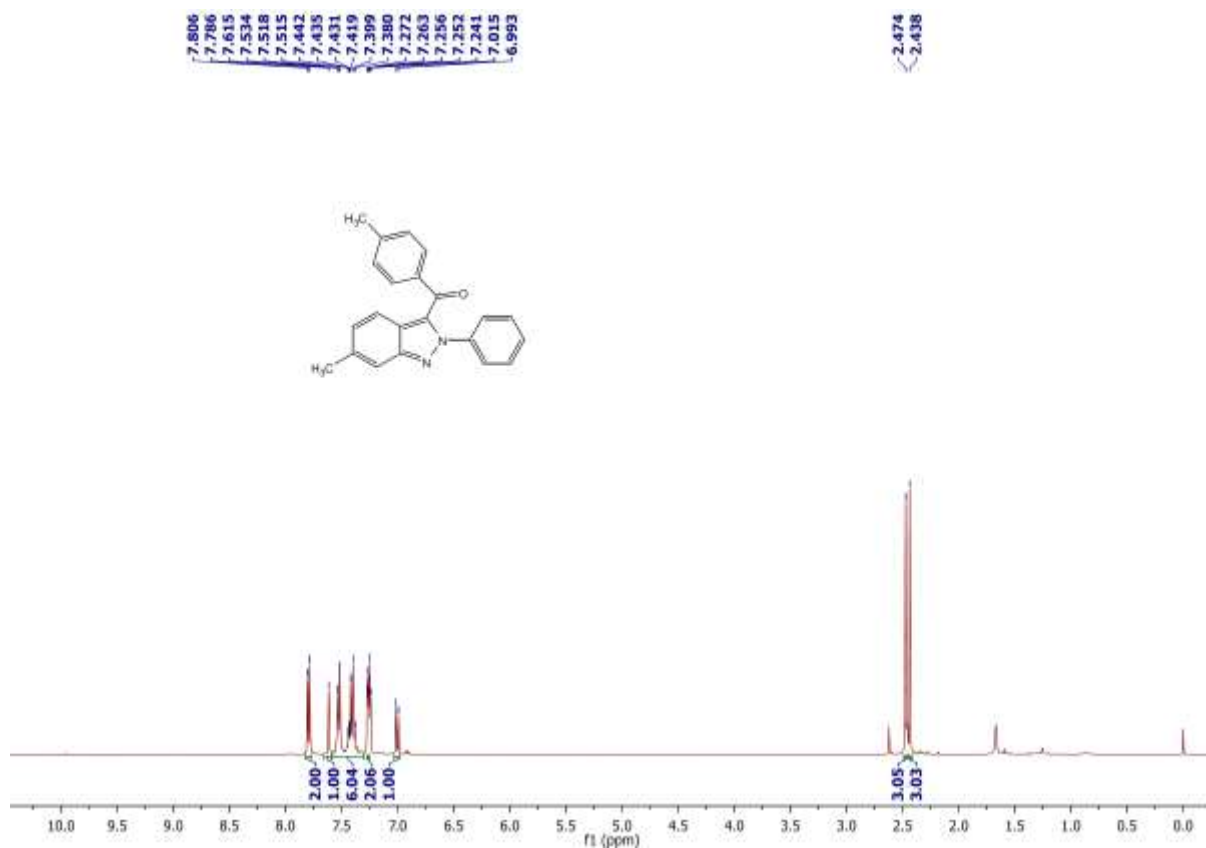
$^{13}\text{C NMR}$  (100 MHz, Chloroform-*d*) Spectra of **4b**



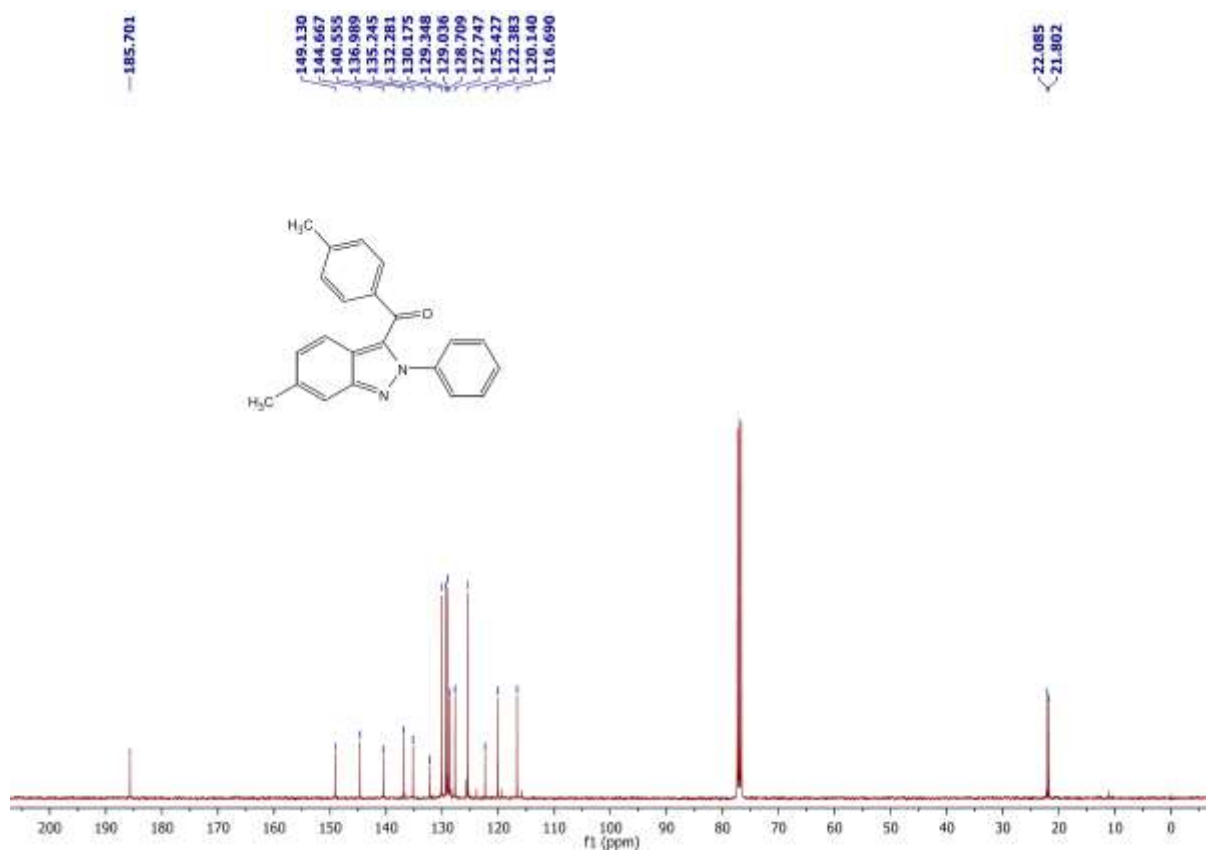
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **4c**



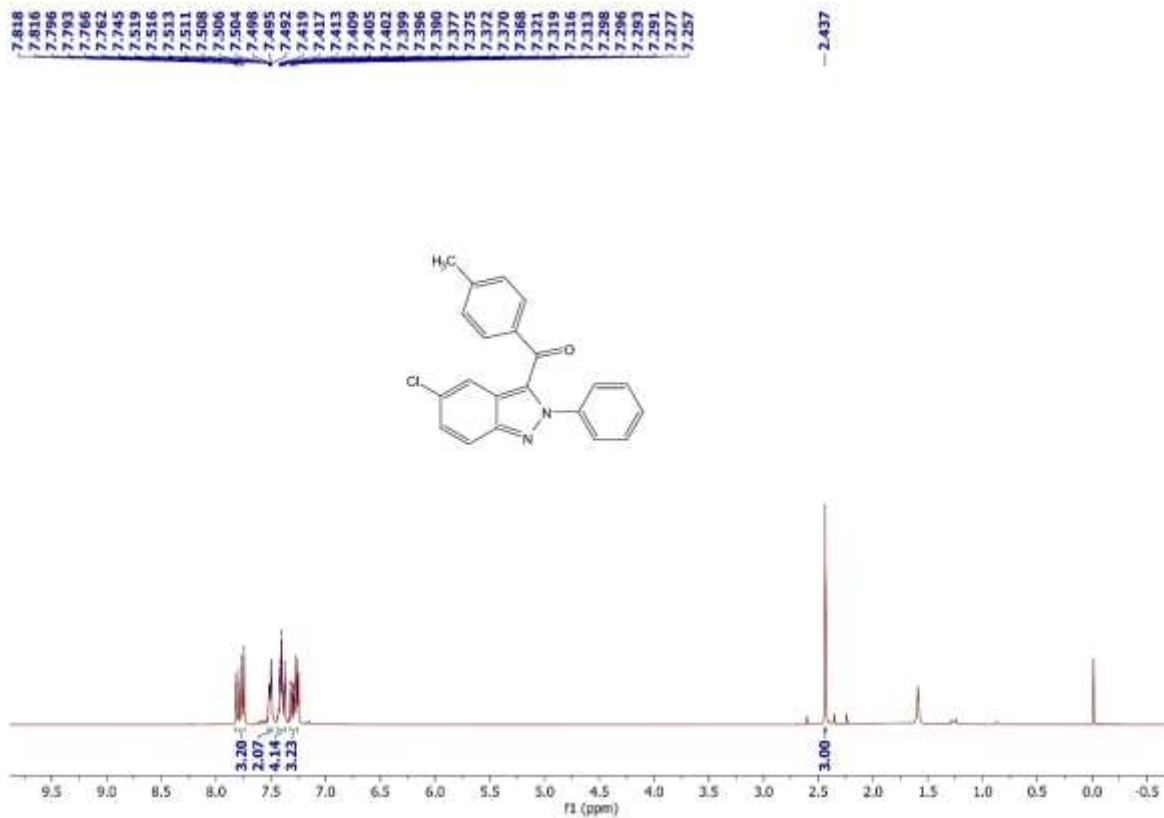
<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **4c**



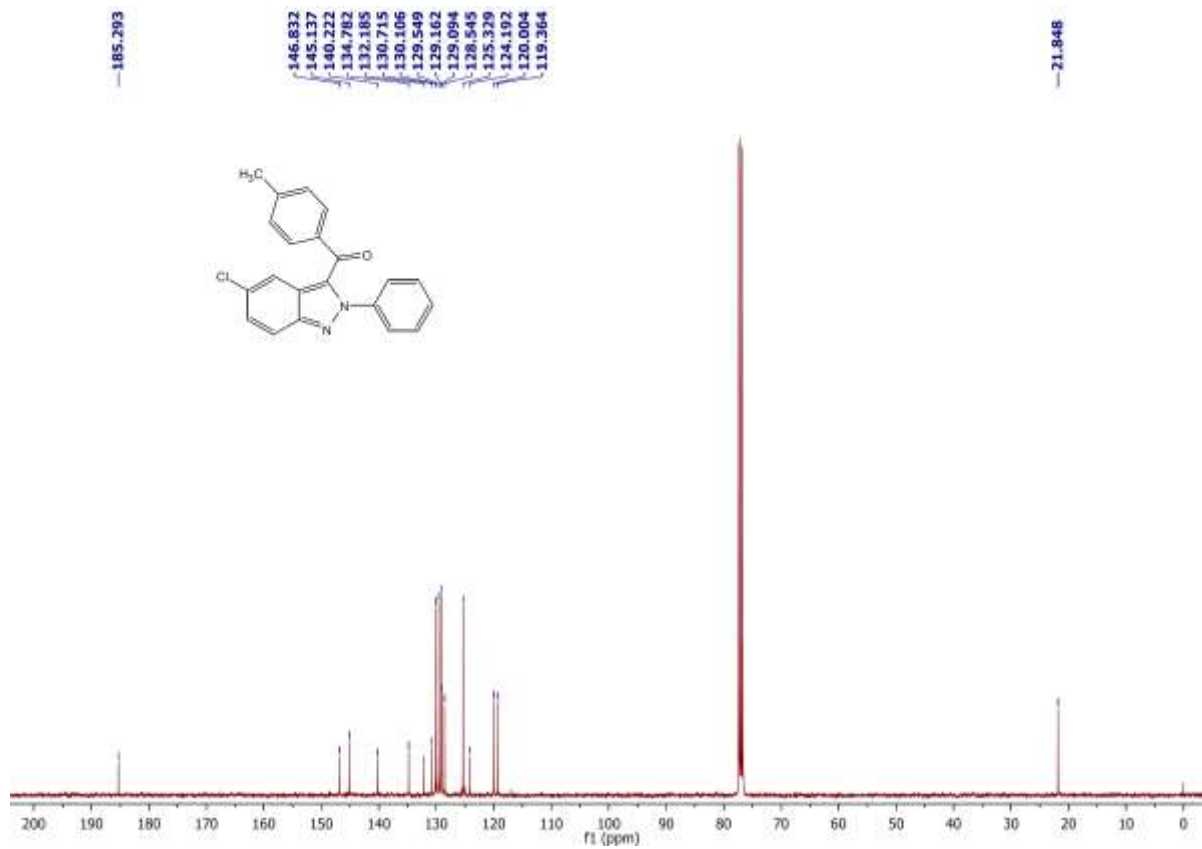
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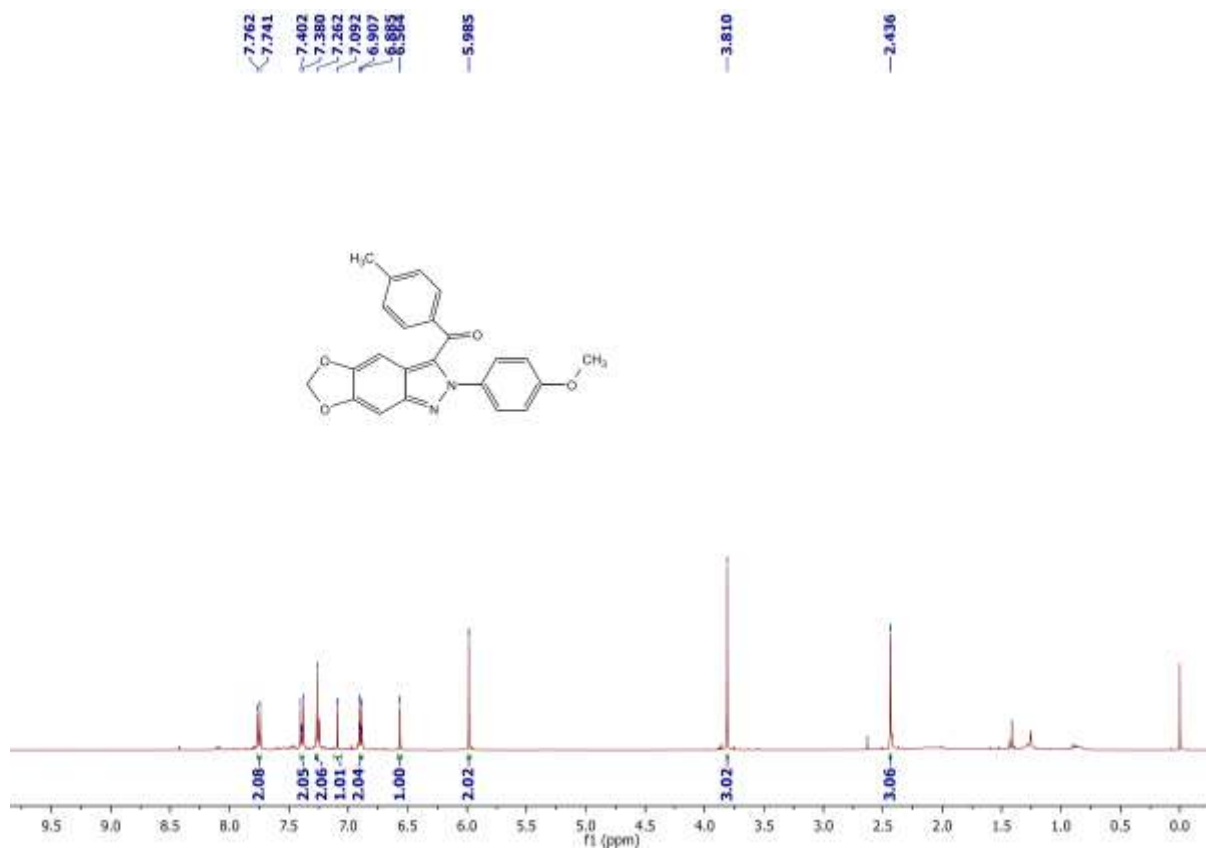
$^{13}\text{C}$  NMR (100 MHz, Chloroform-*d*) Spectra of **4d**



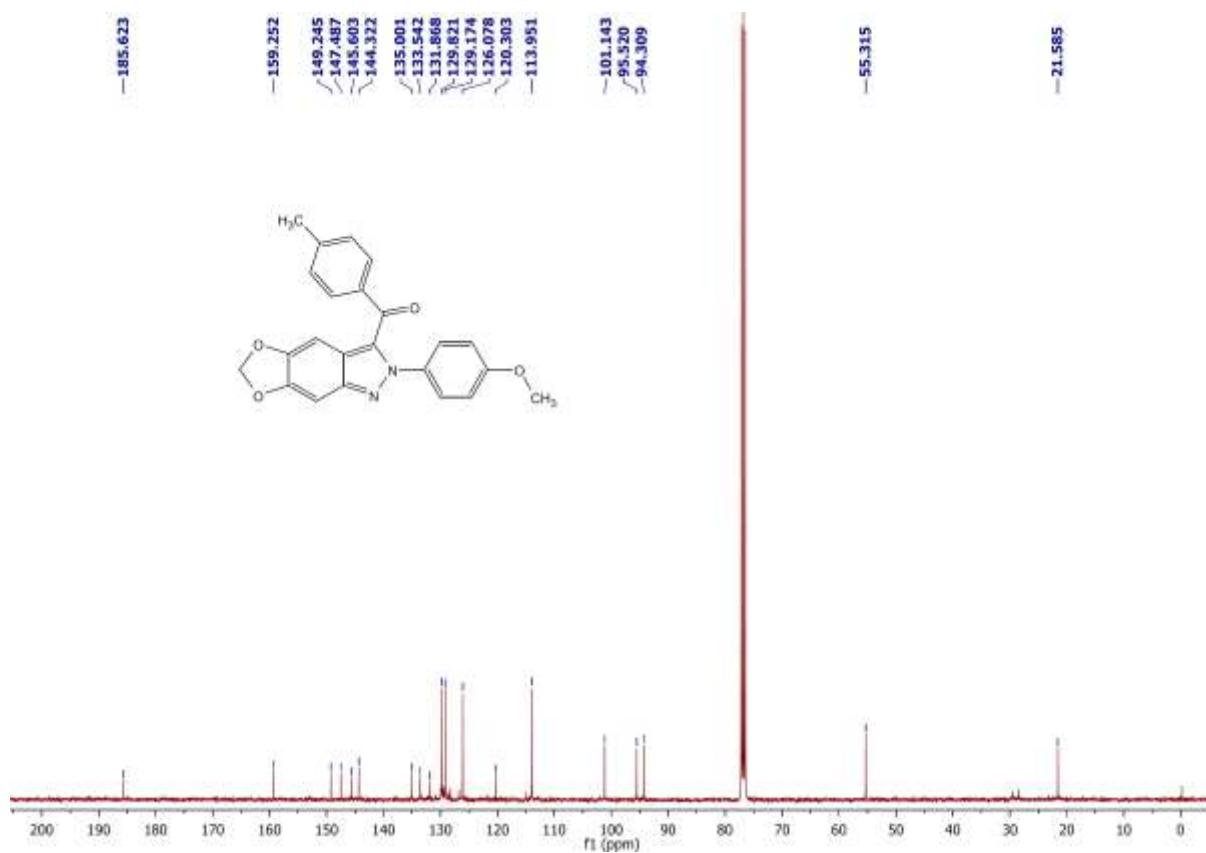
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$^{13}\text{C}$  NMR (100 MHz, Chloroform-*d*) Spectra of **4e**

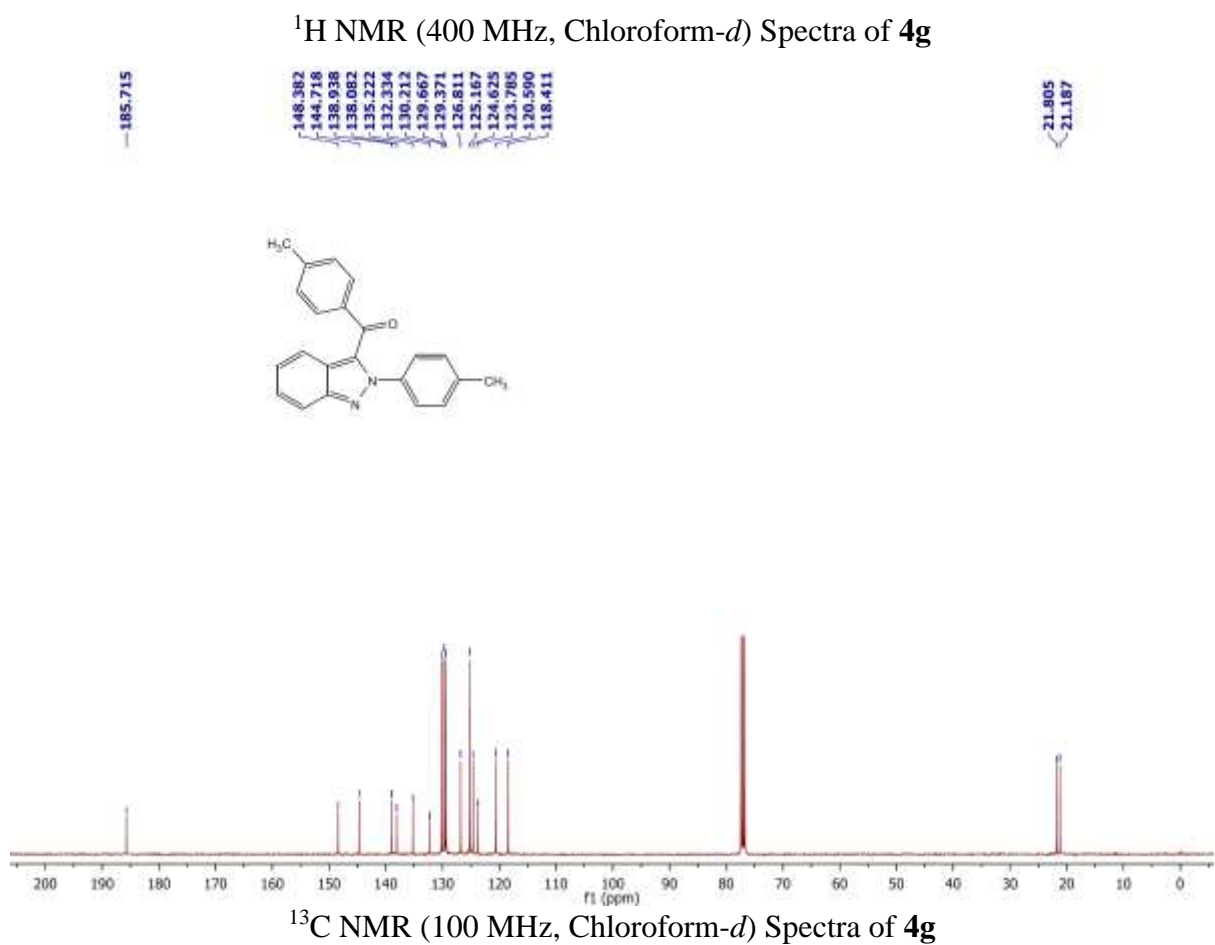
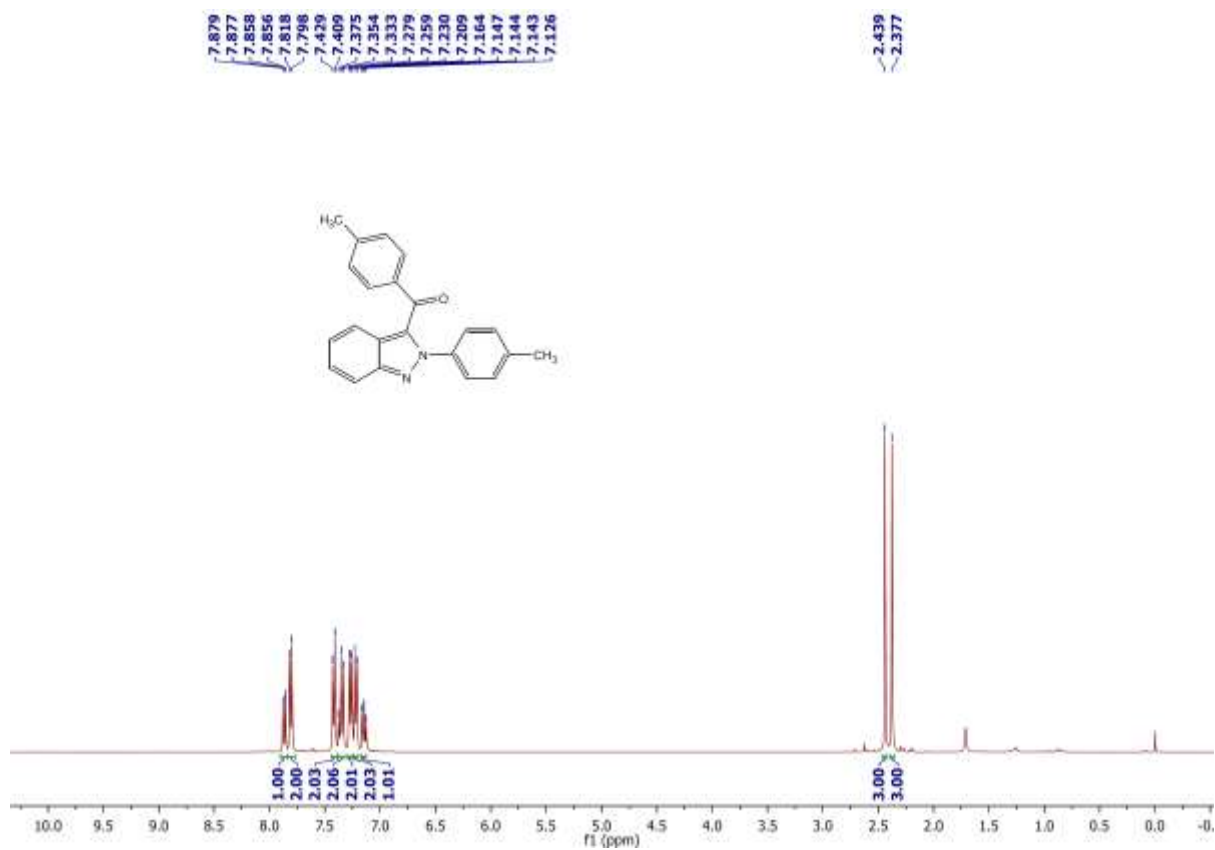


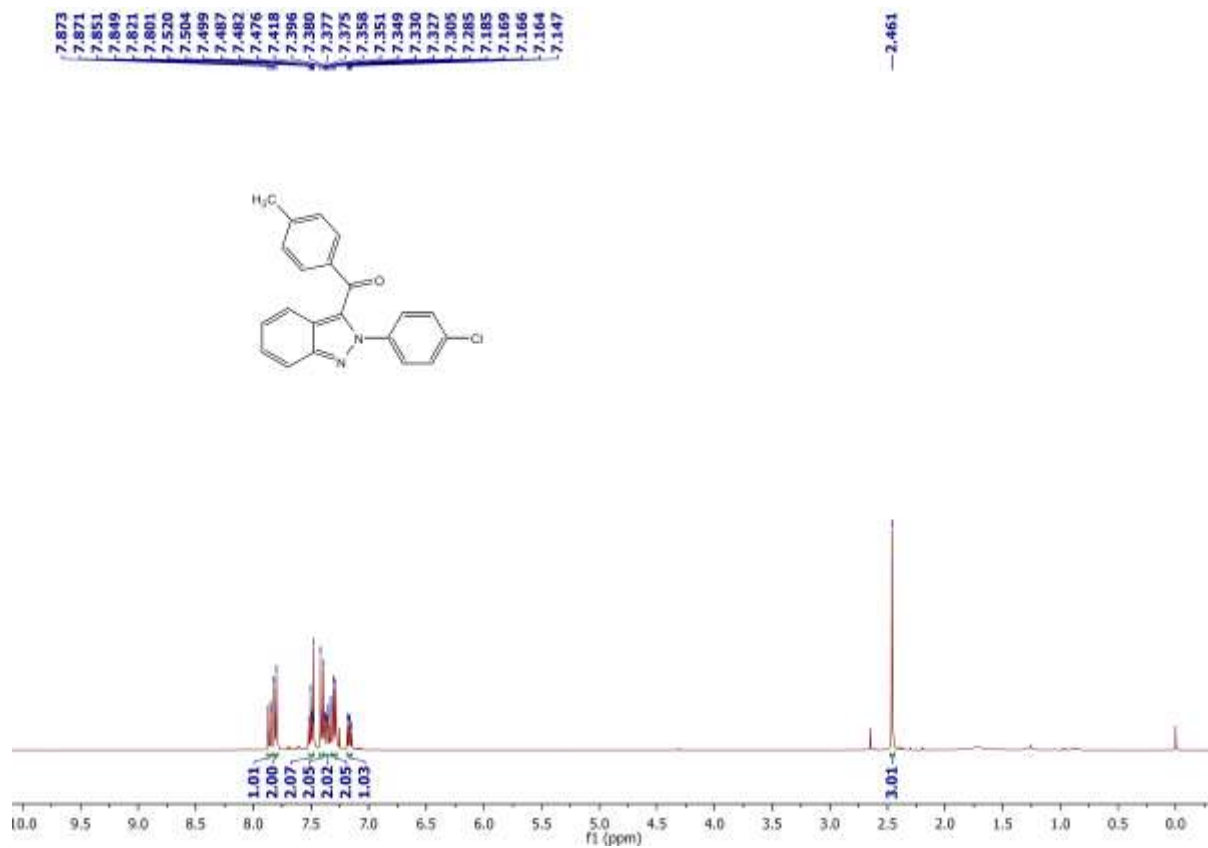
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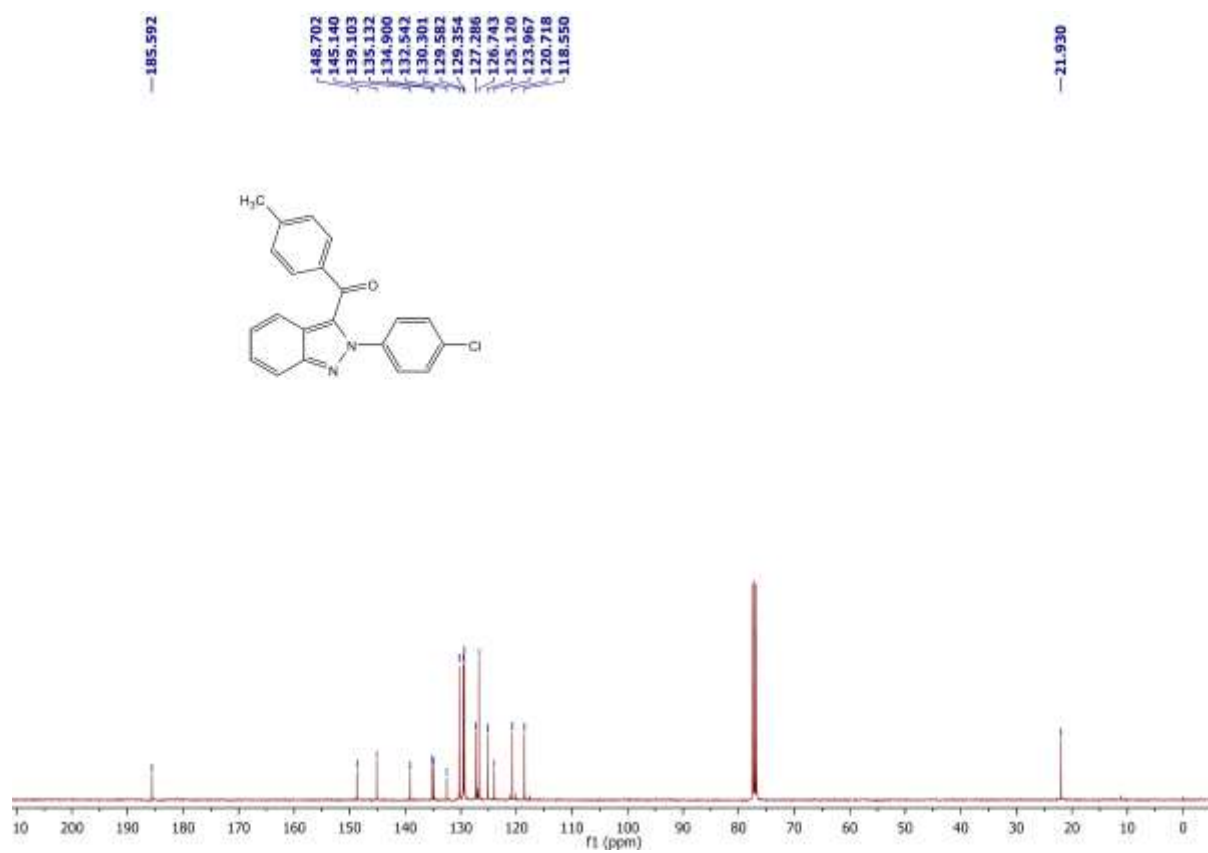
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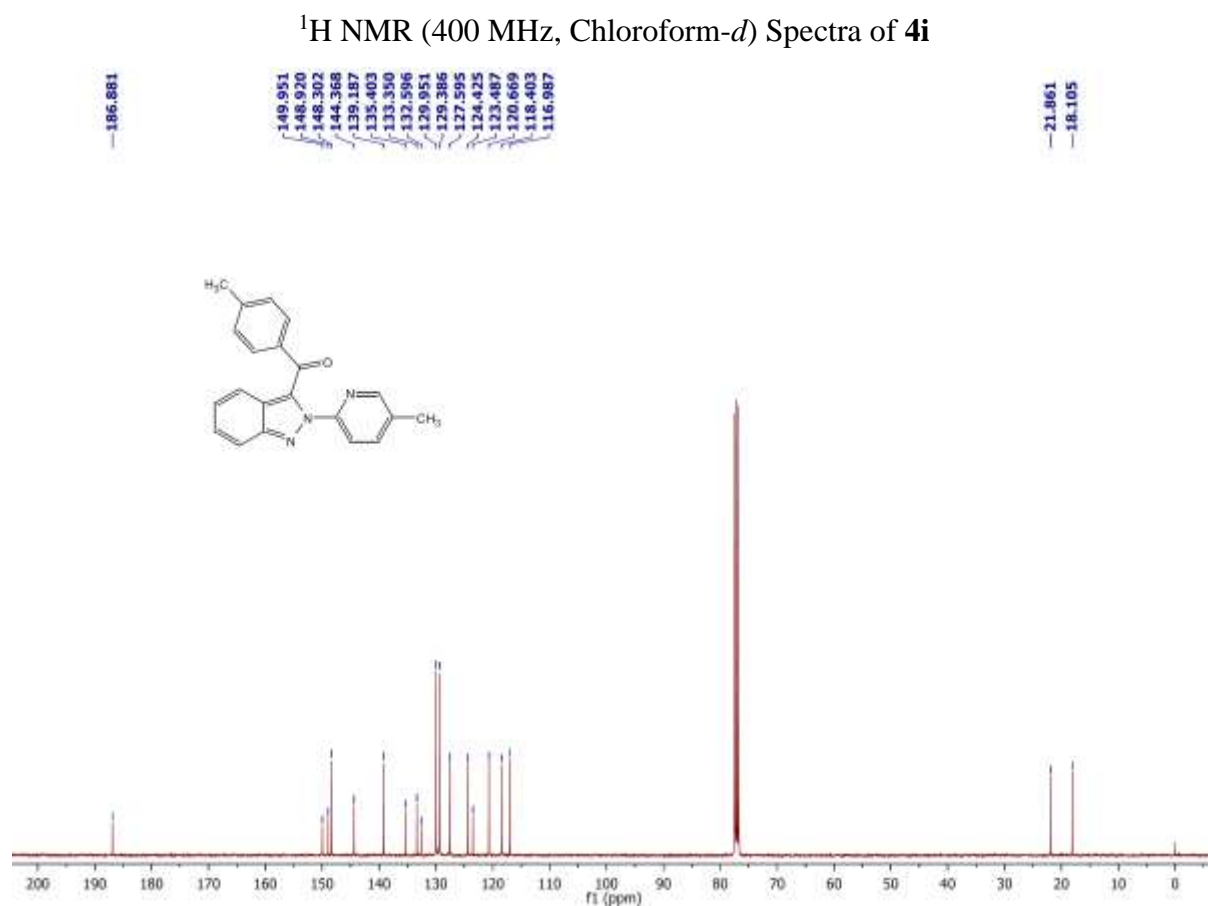
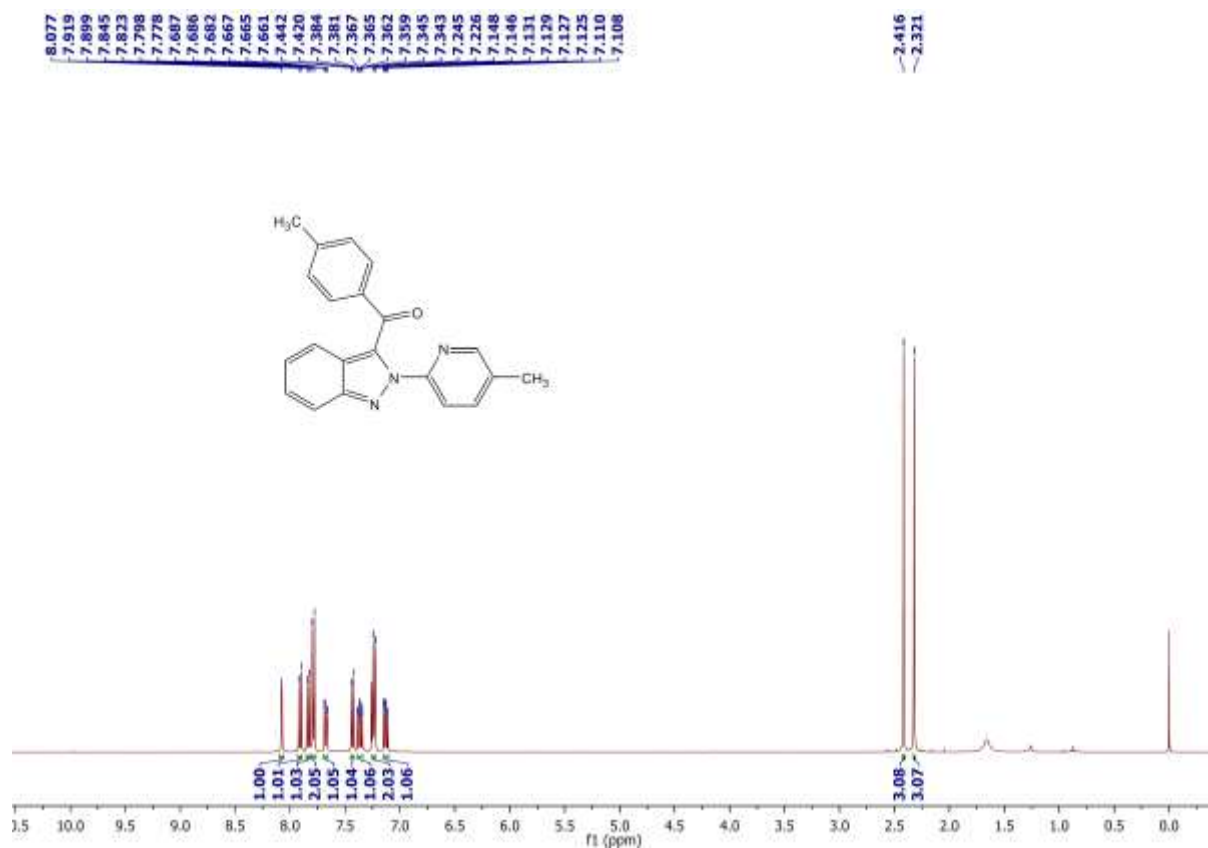


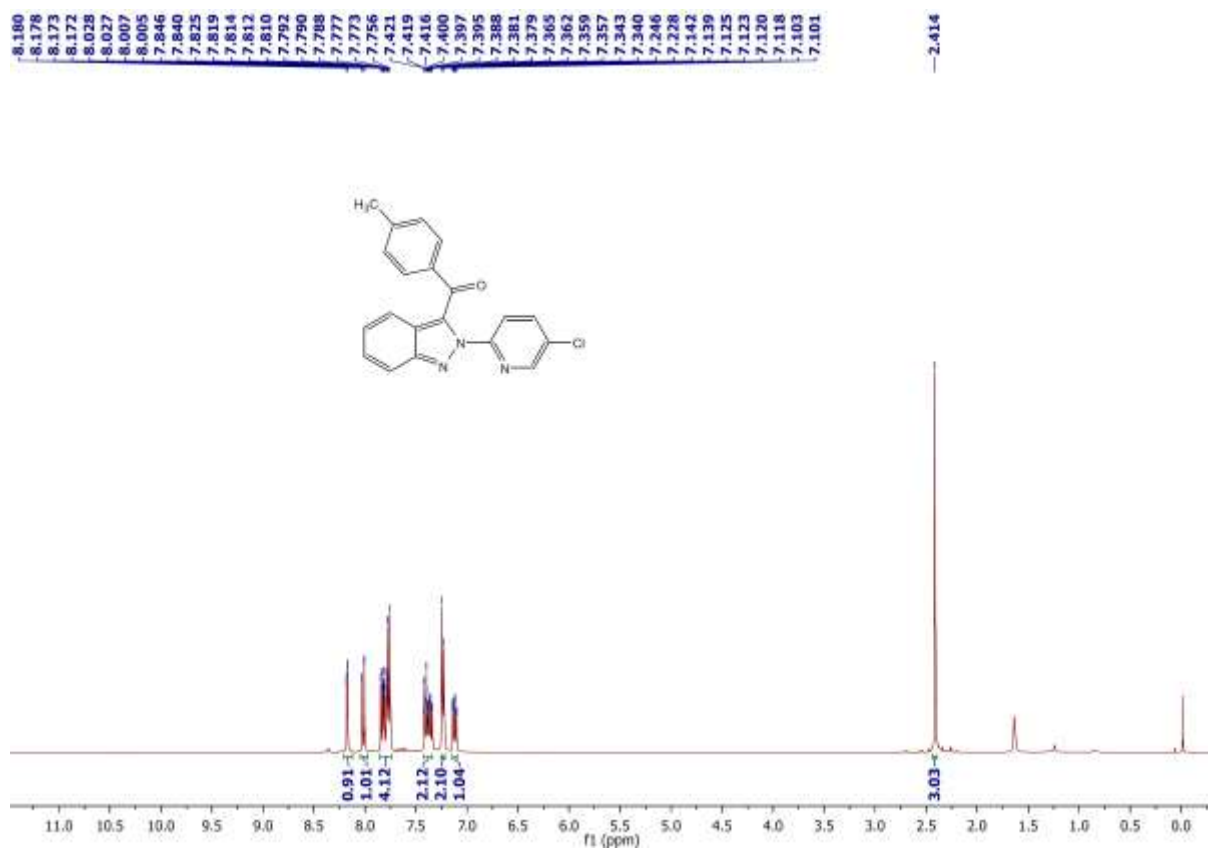


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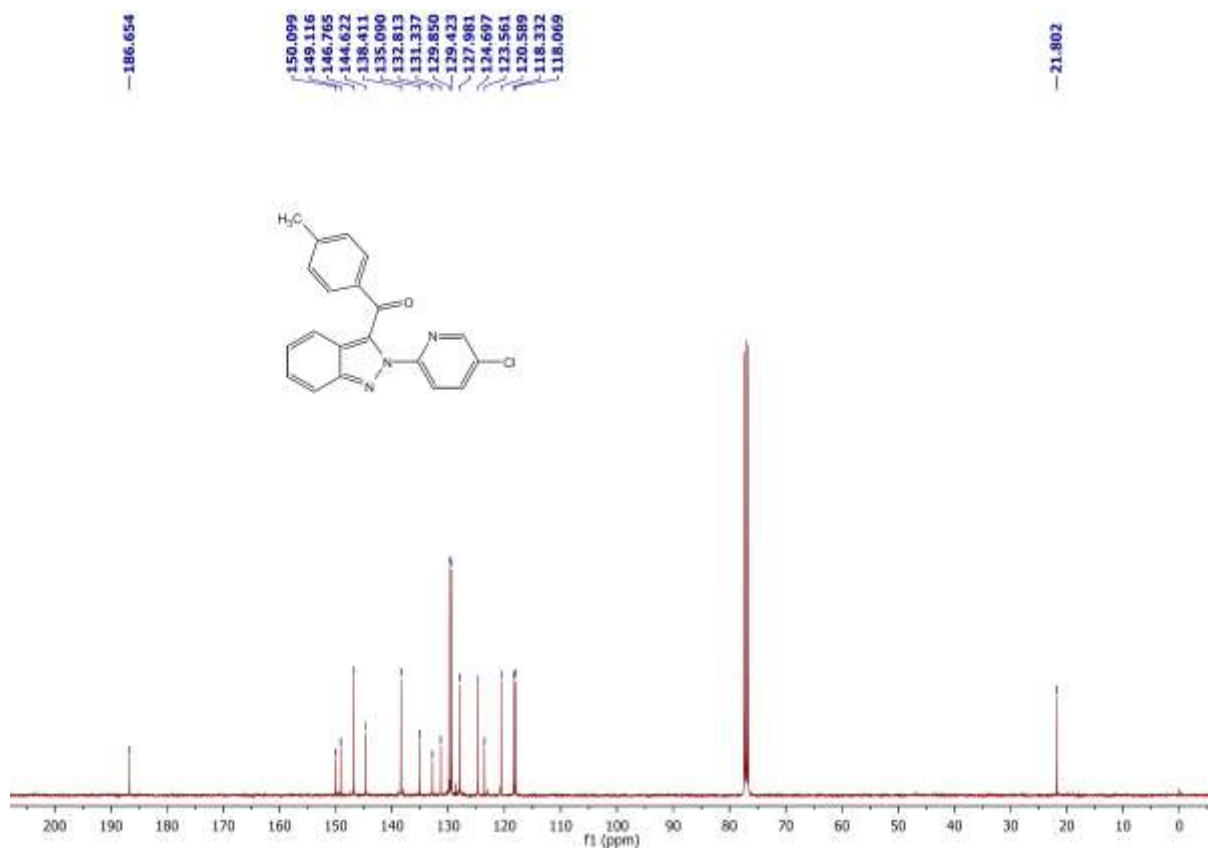


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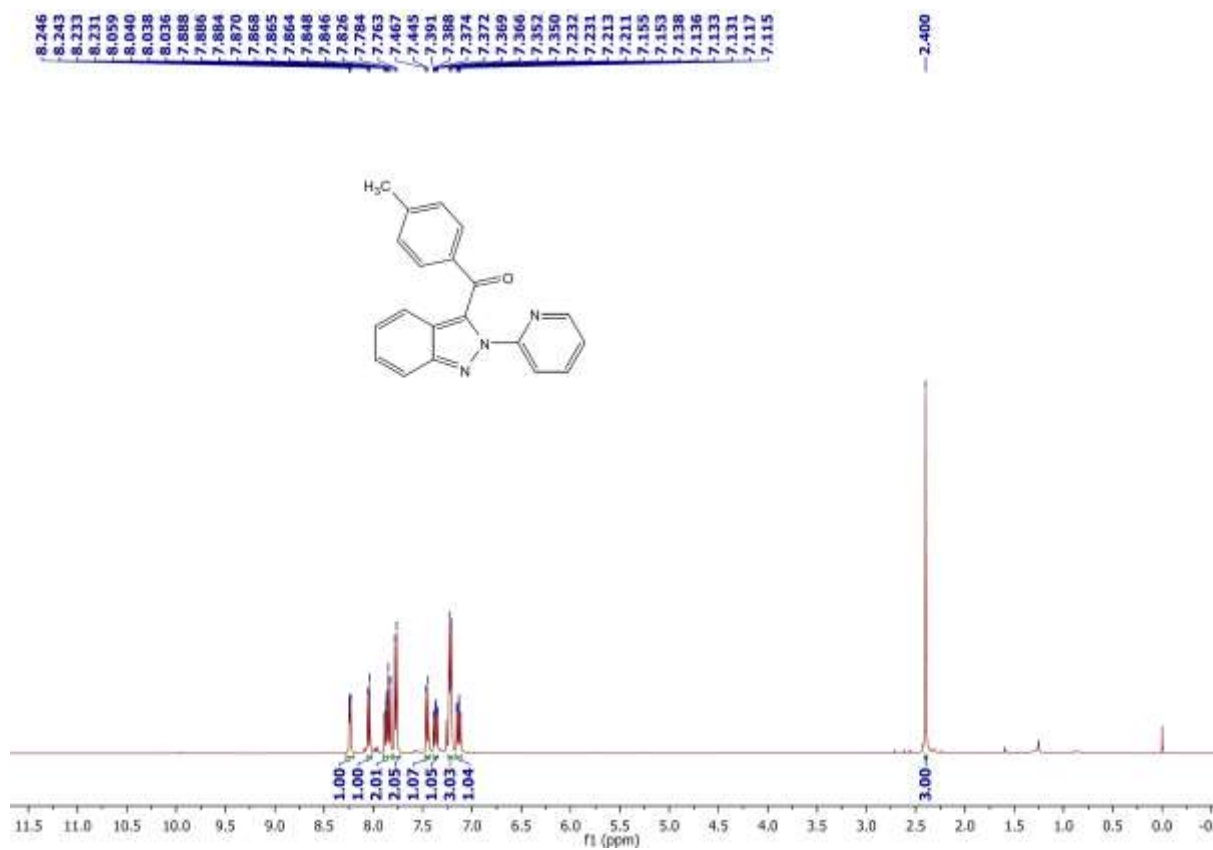




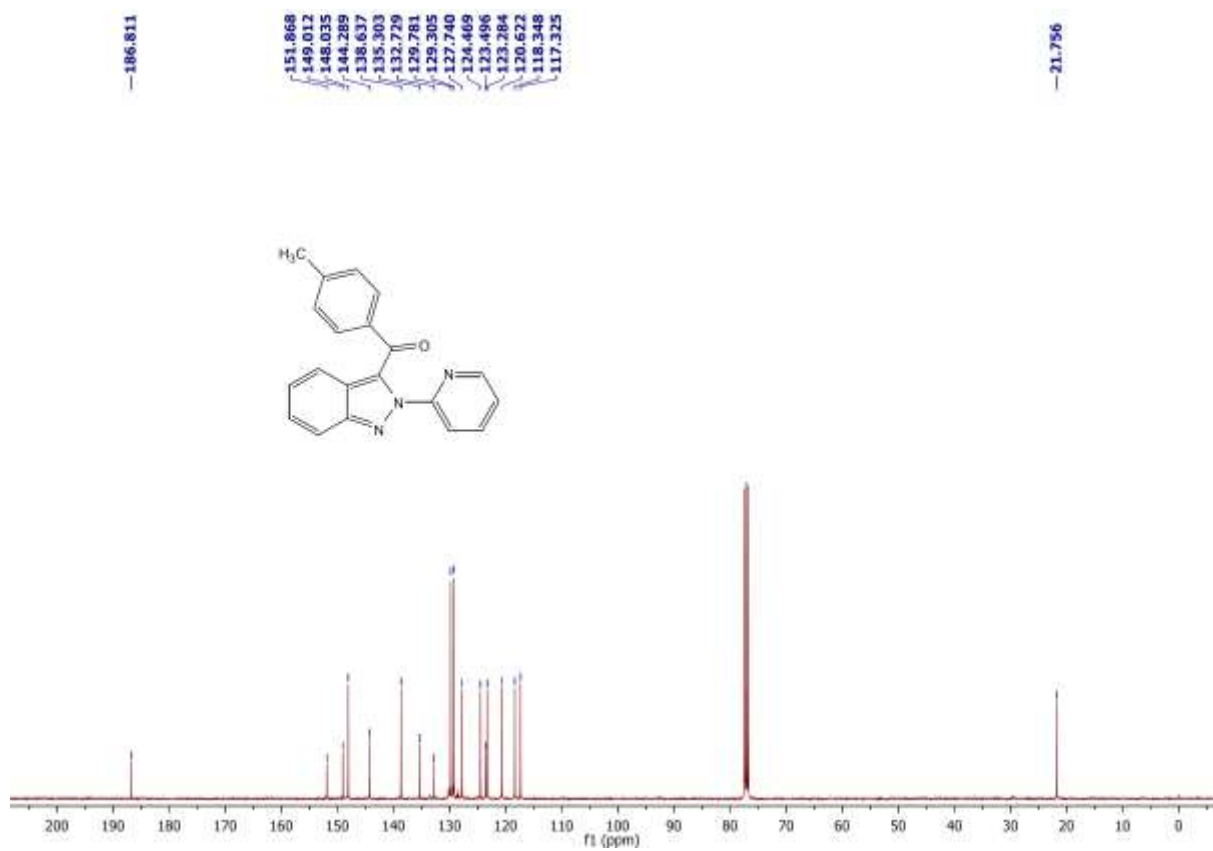
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **4j**



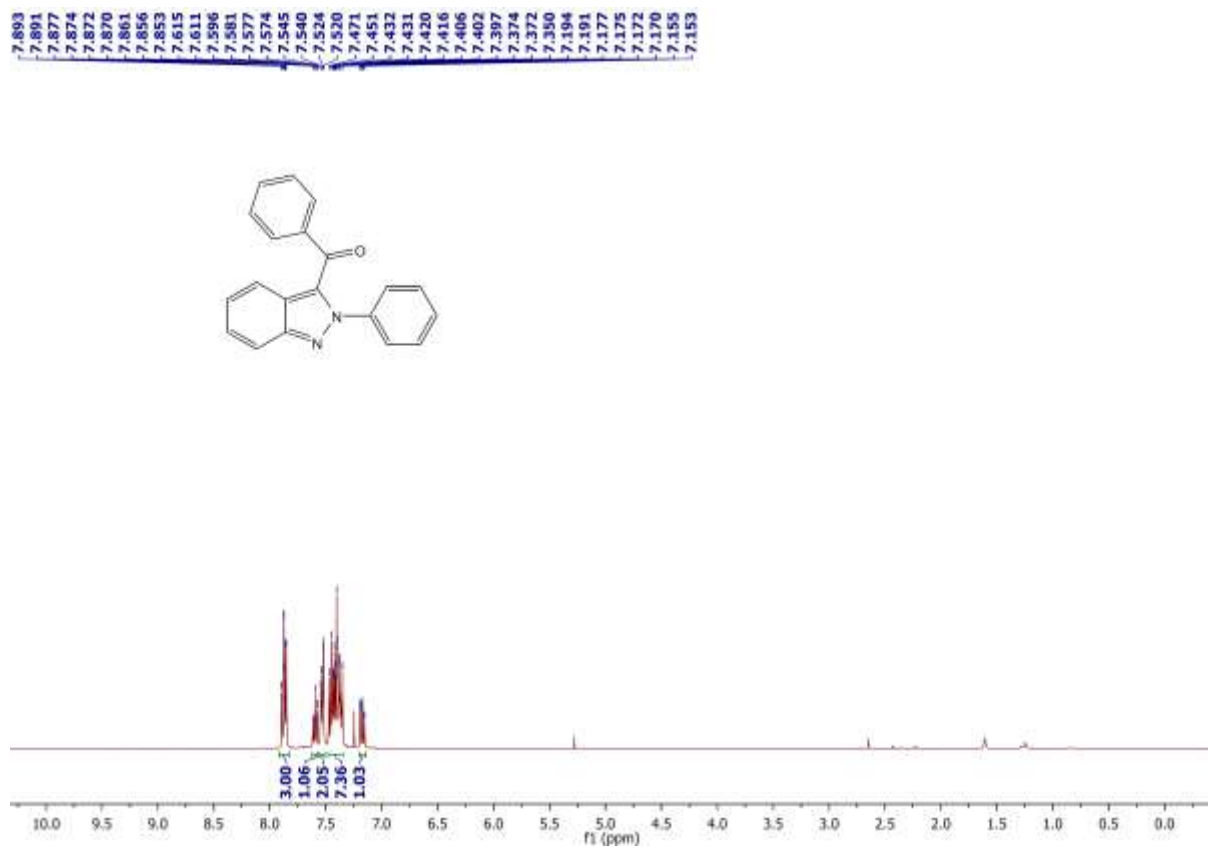
<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **4j**



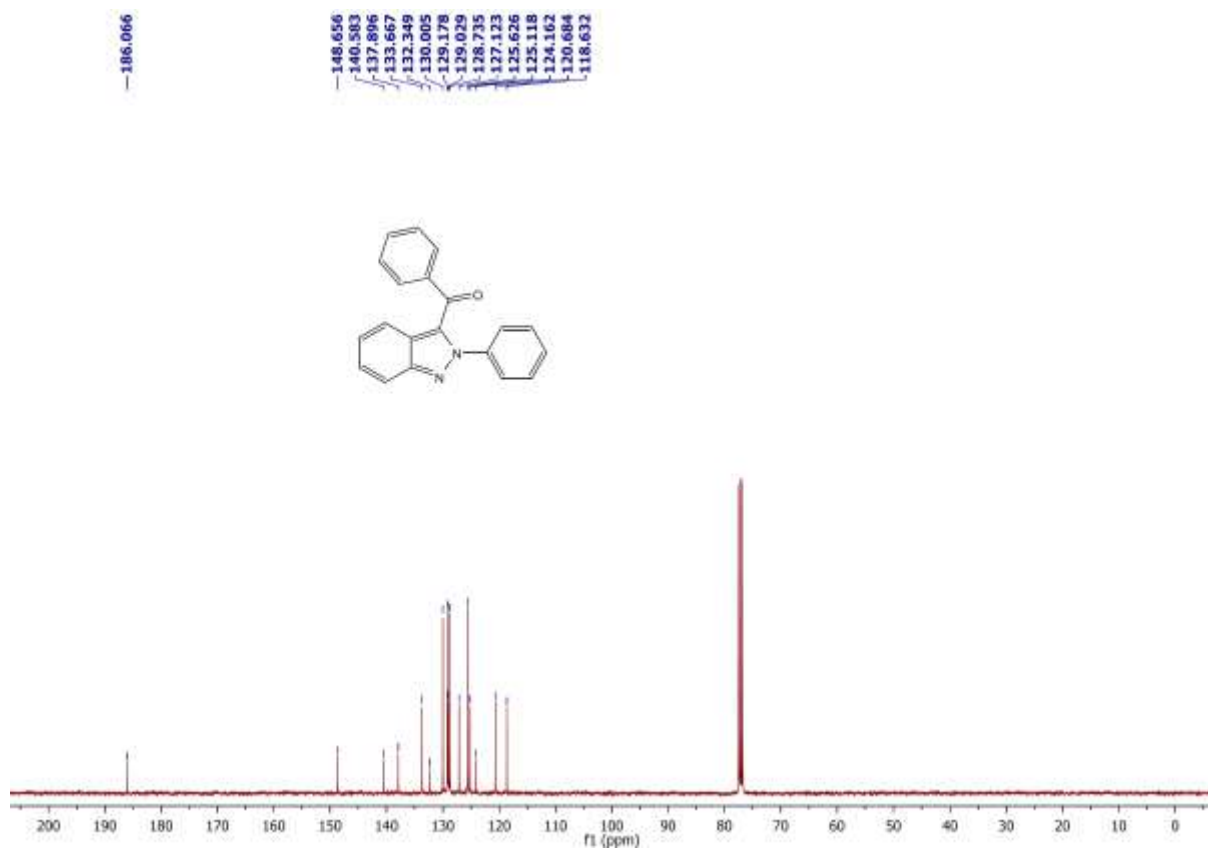
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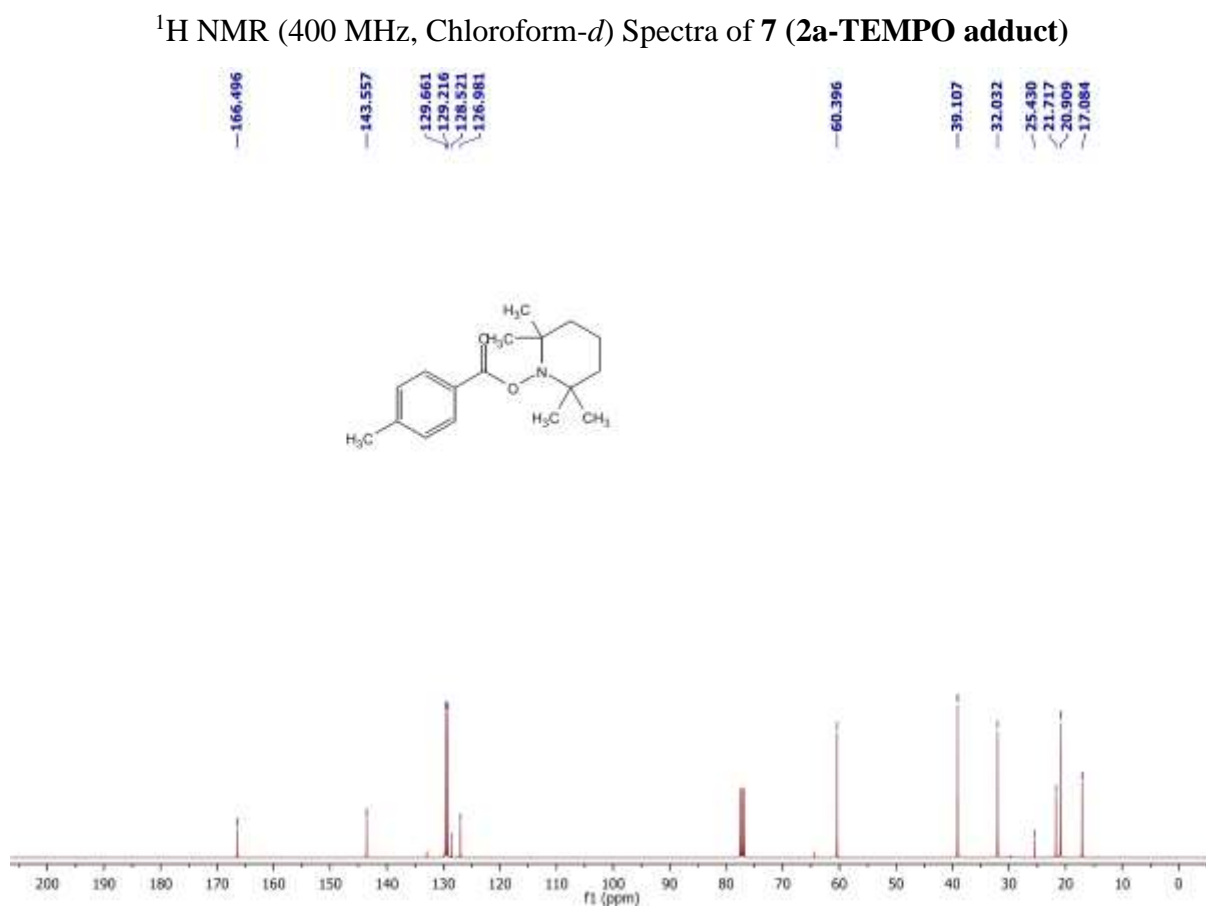
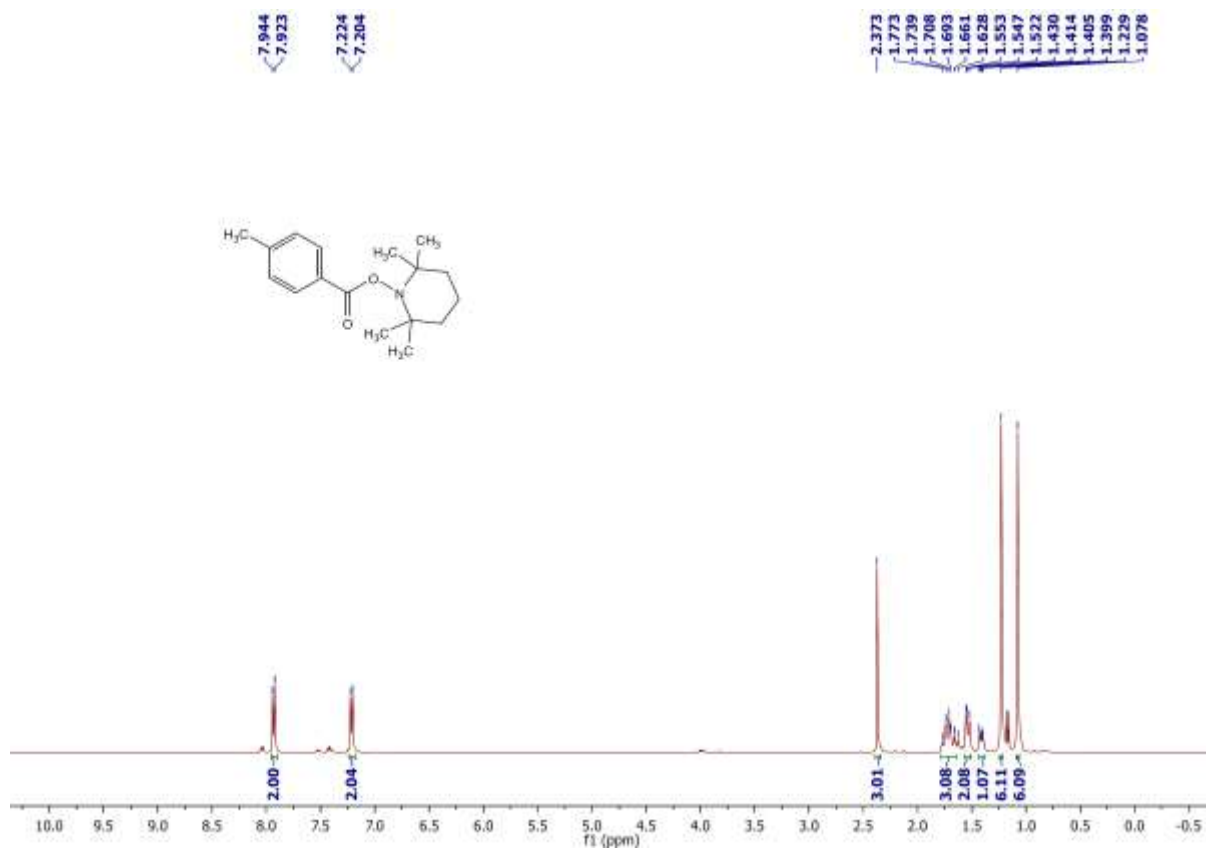
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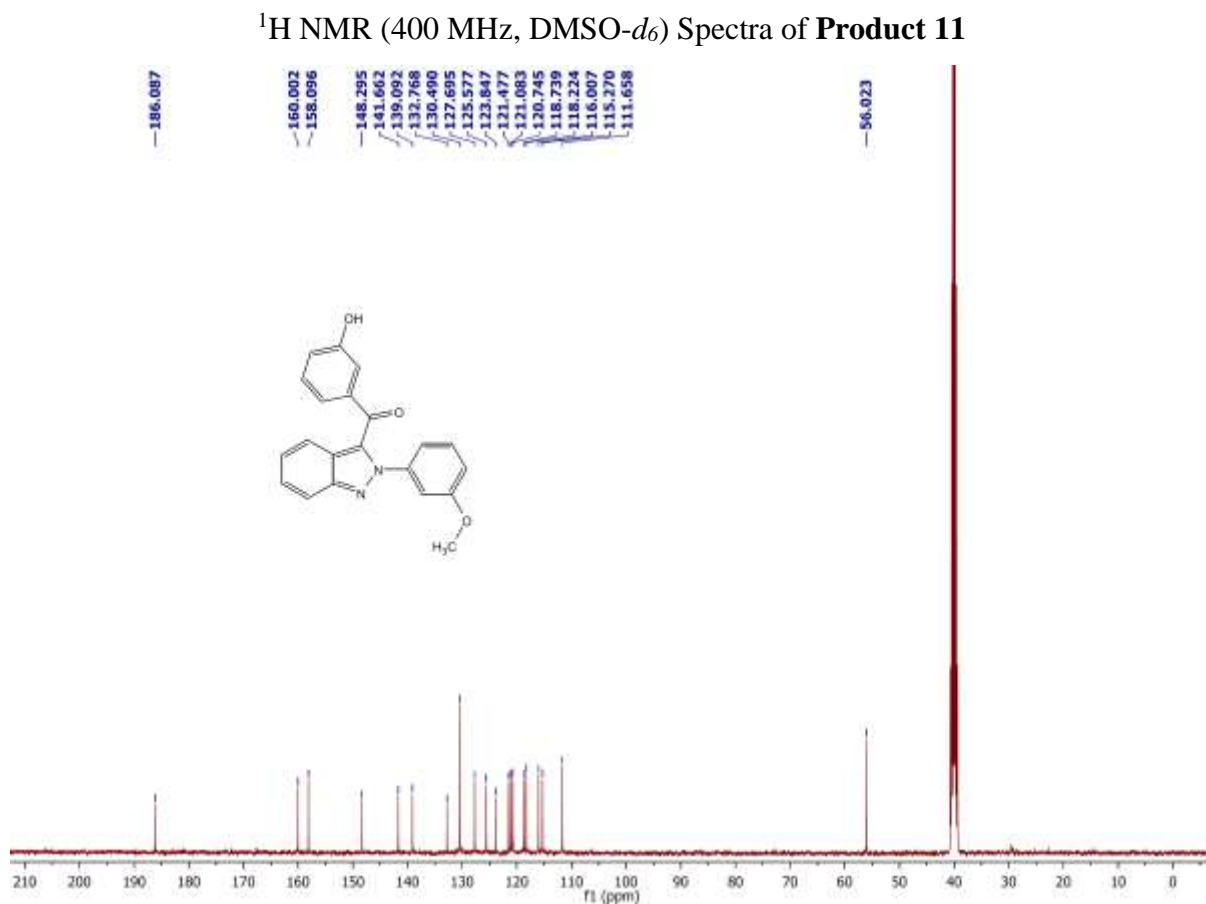
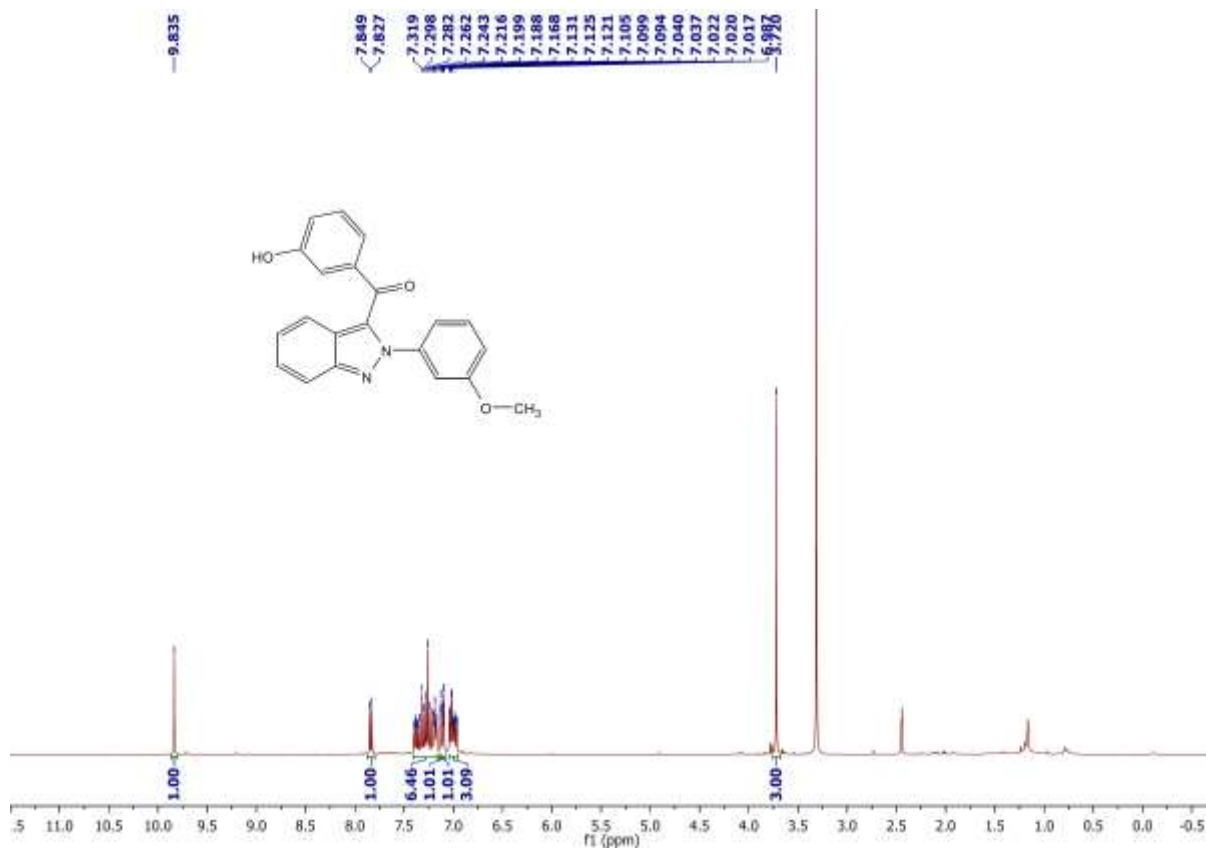


<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **4I**

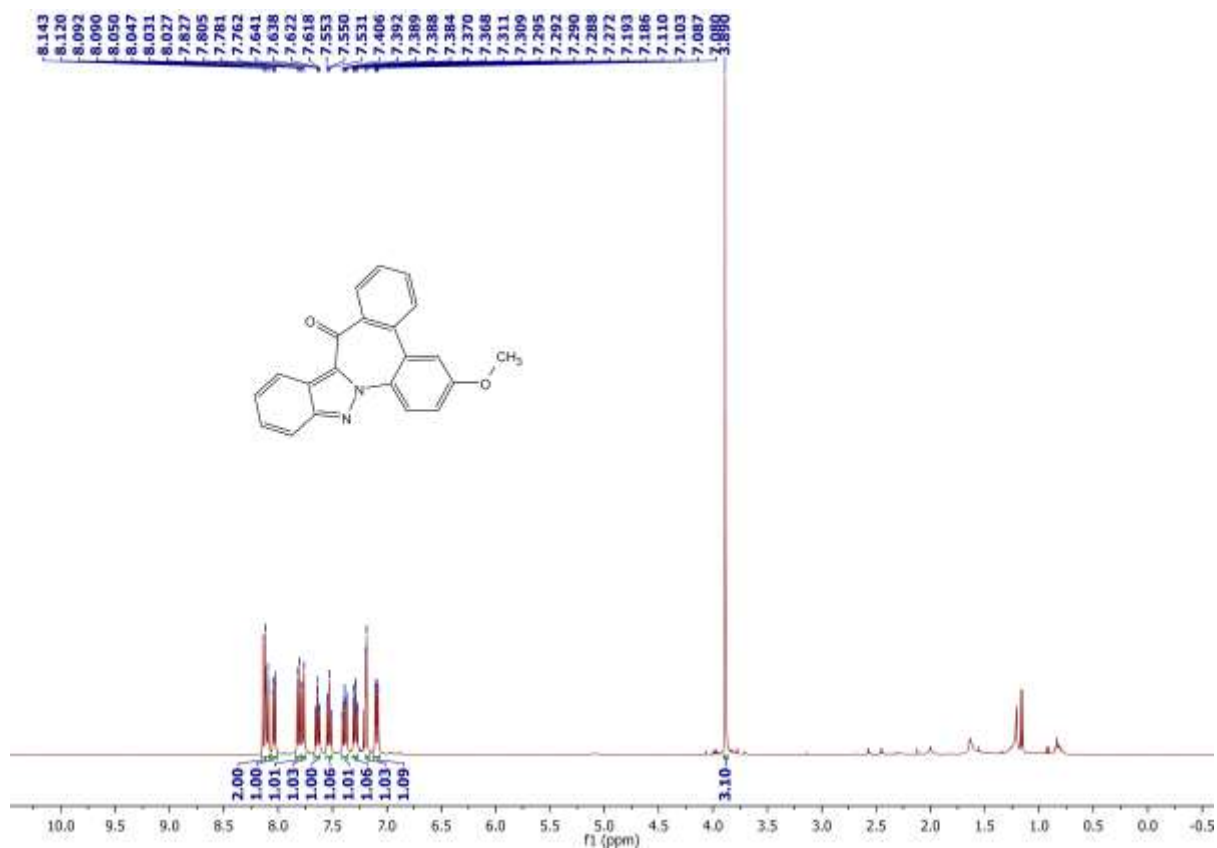


<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **4I**

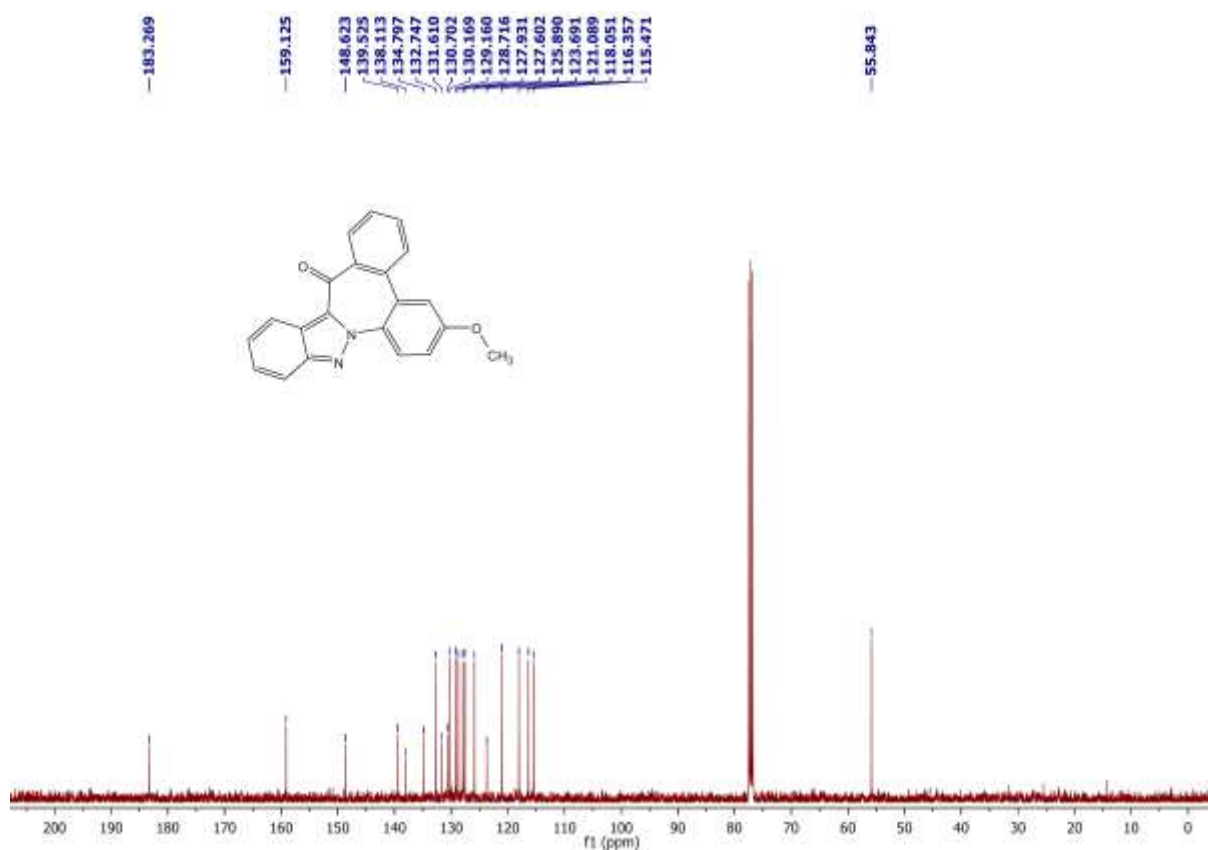




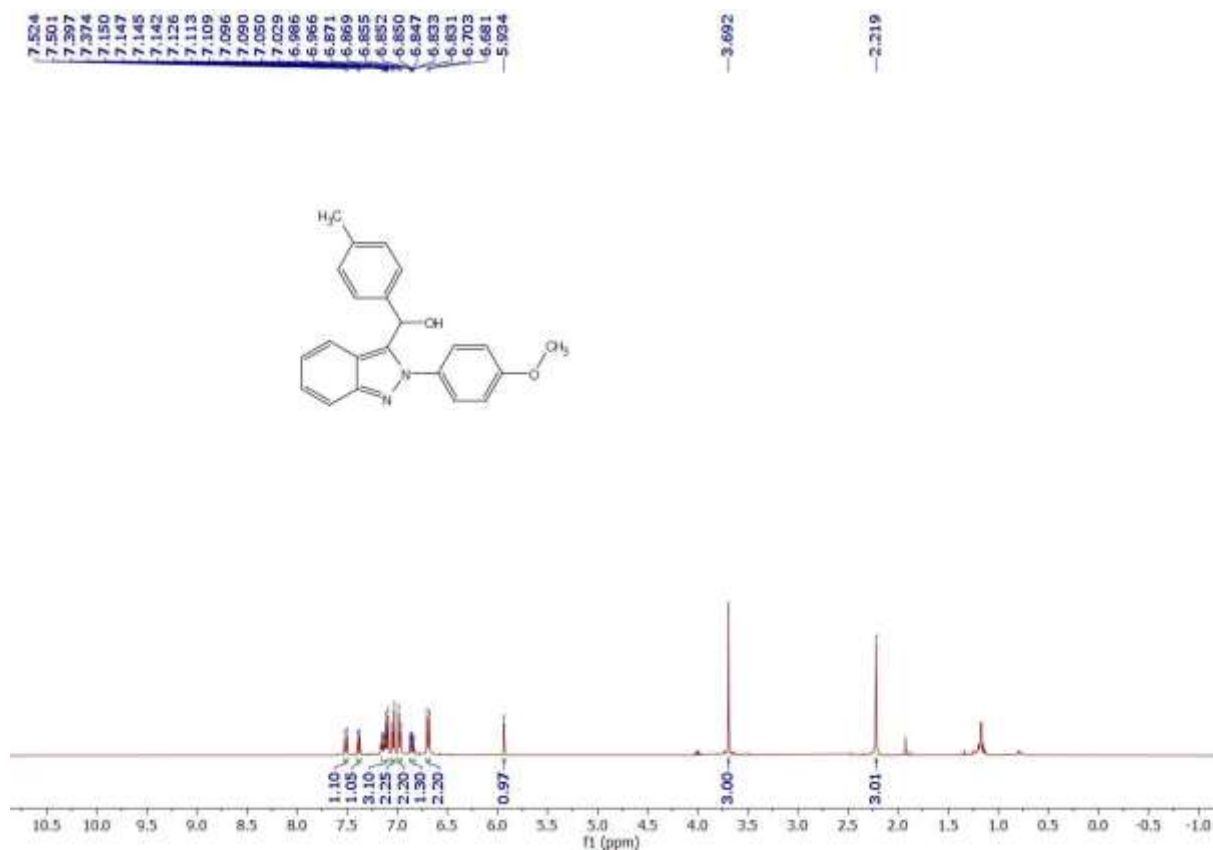




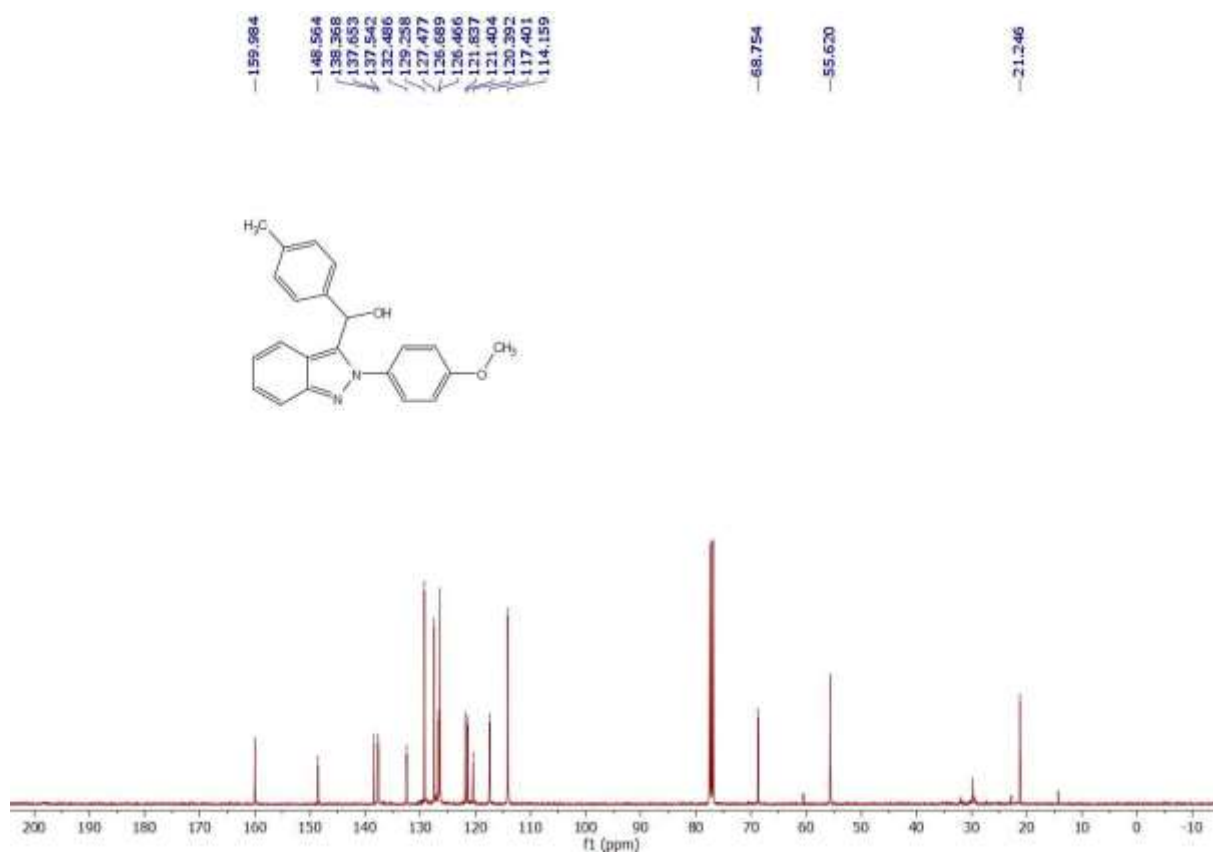
<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **product 13**



<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **product 13**



<sup>1</sup>H NMR (400 MHz, Chloroform-*d*) Spectra of **product 14**



<sup>13</sup>C NMR (100 MHz, Chloroform-*d*) Spectra of **product 14**