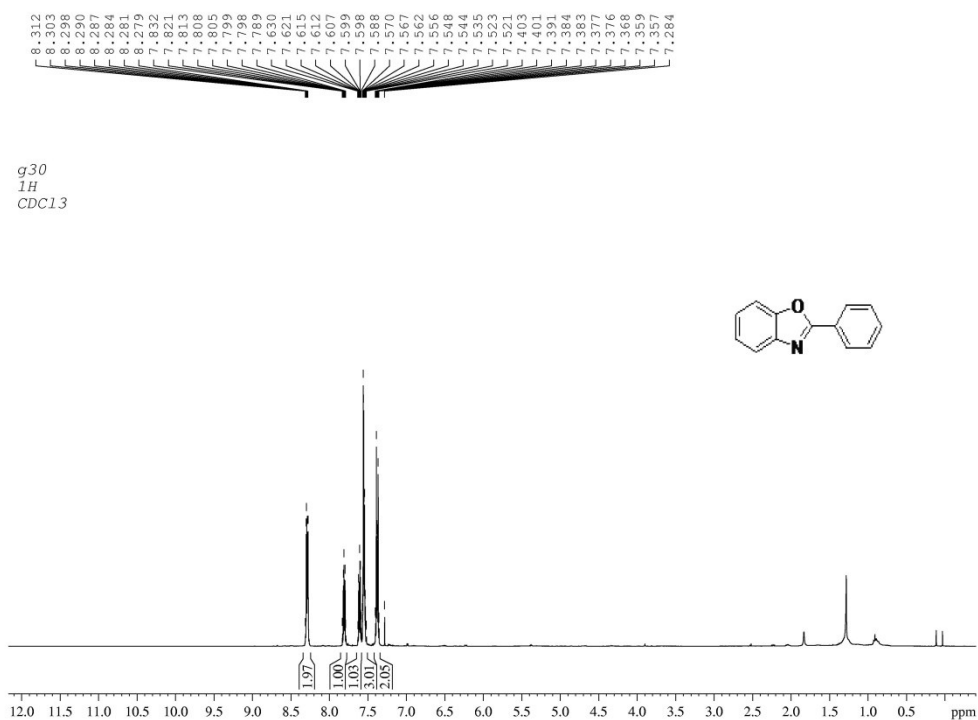
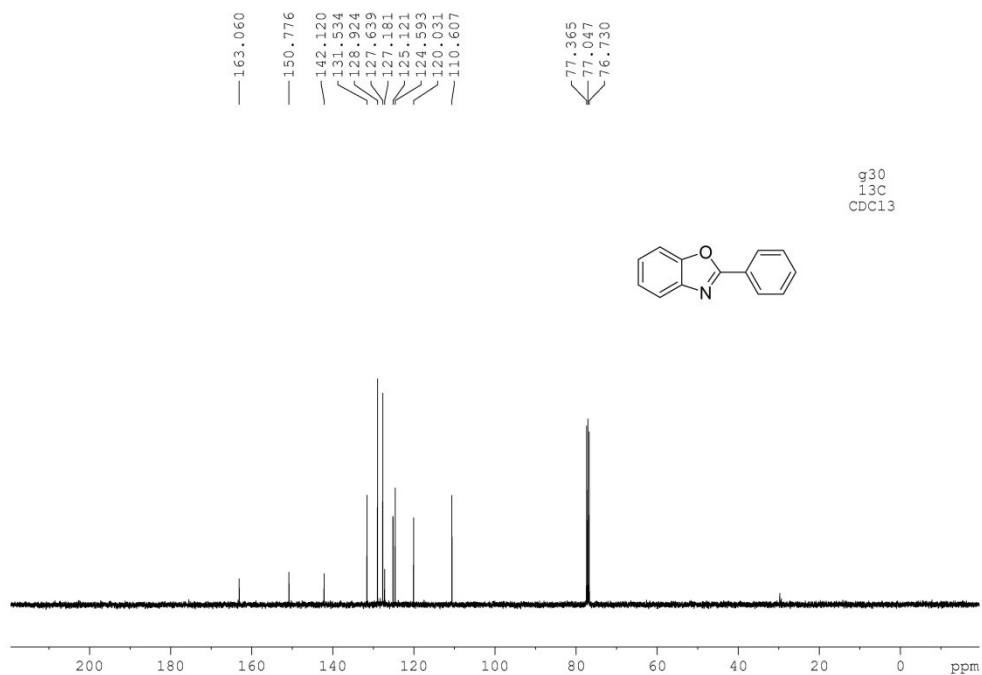


## NMR Spectra of Compounds 4

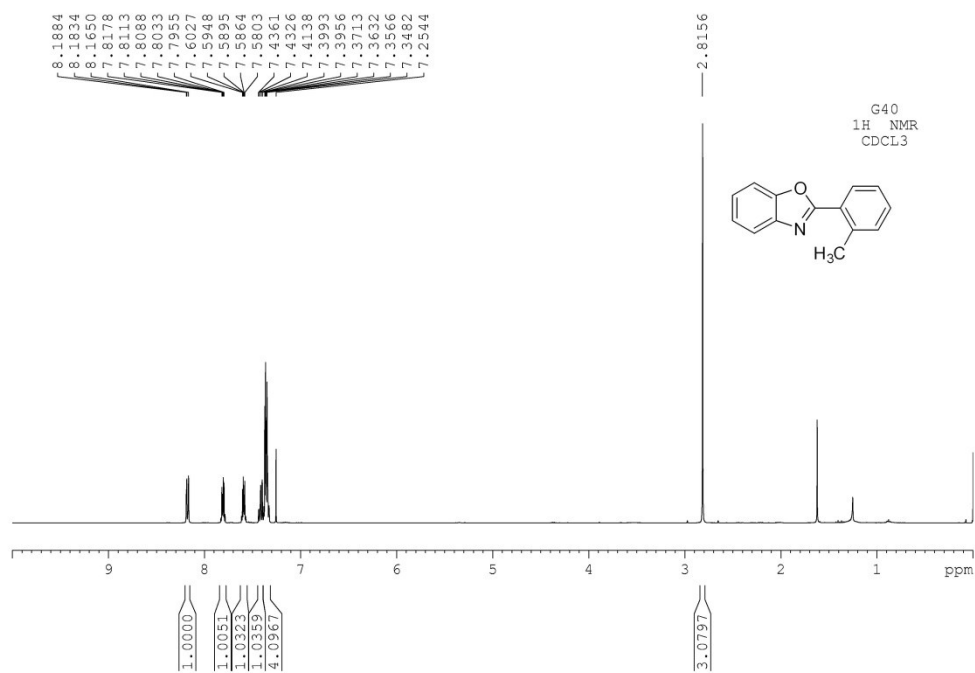
$^1\text{H}$  NMR spectrum of **4a**:



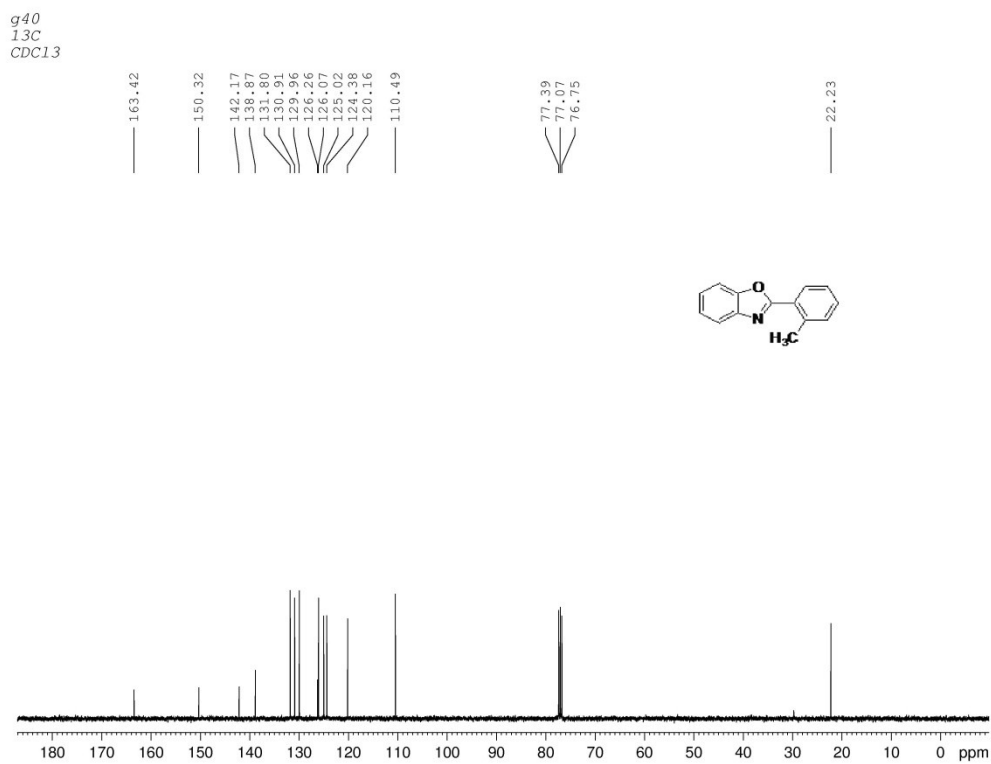
$^{13}\text{C}$  NMR spectrum of **4a**:



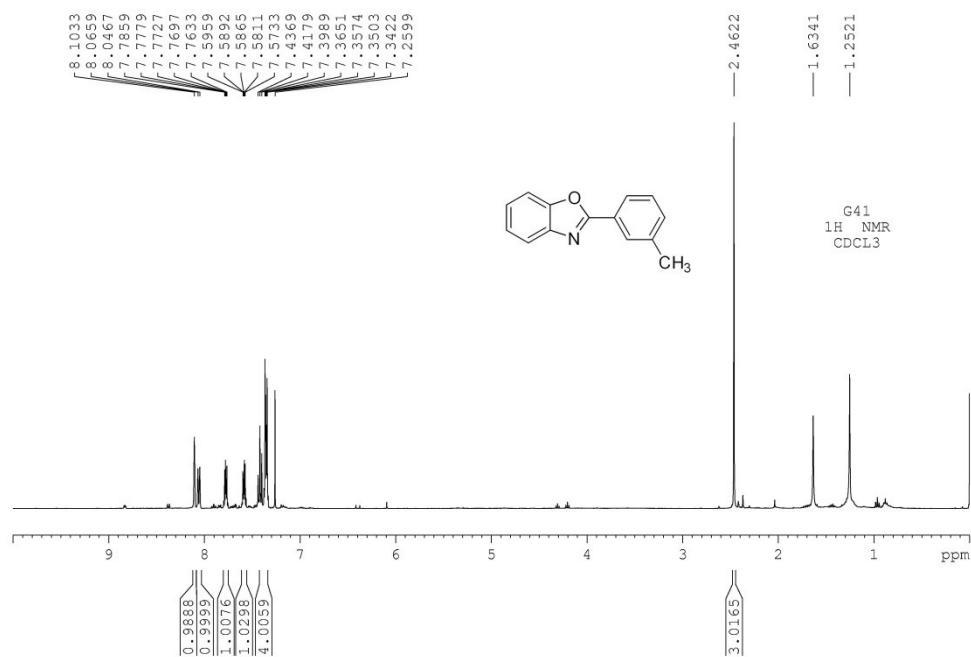
<sup>1</sup>H NMR spectrum of **4b**:



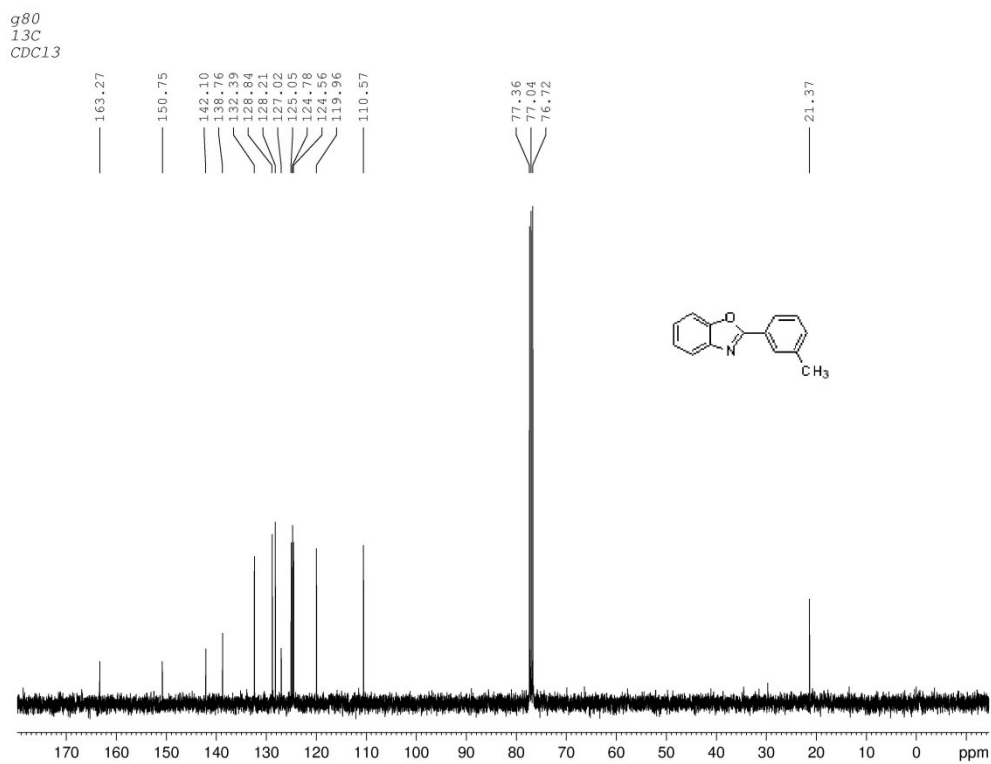
<sup>13</sup>C NMR spectrum of **4b**:



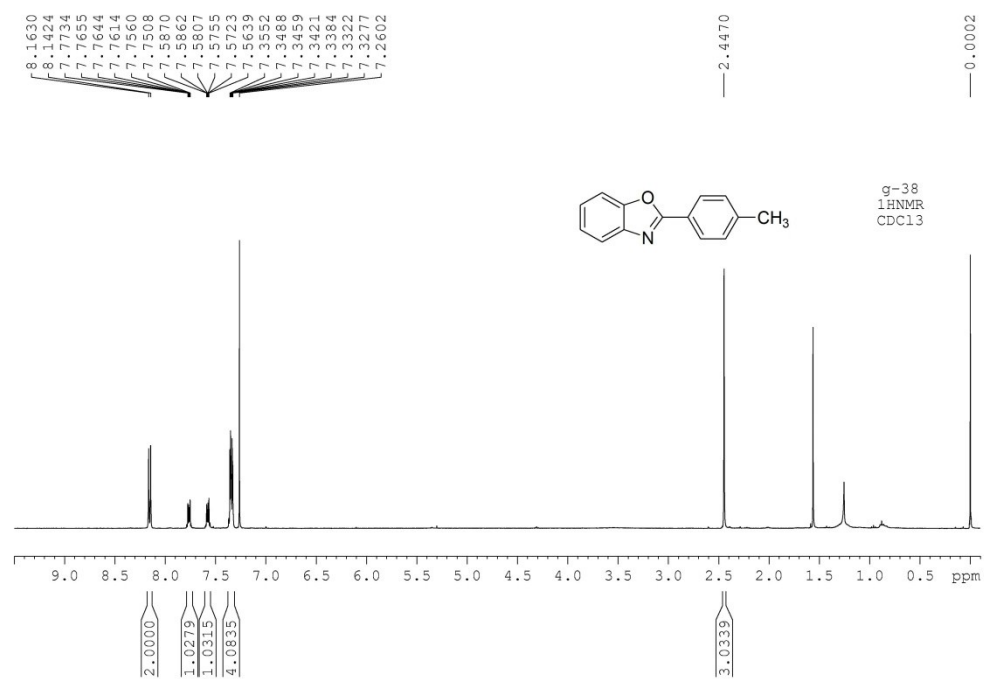
### <sup>1</sup>H NMR spectrum of **4c**:



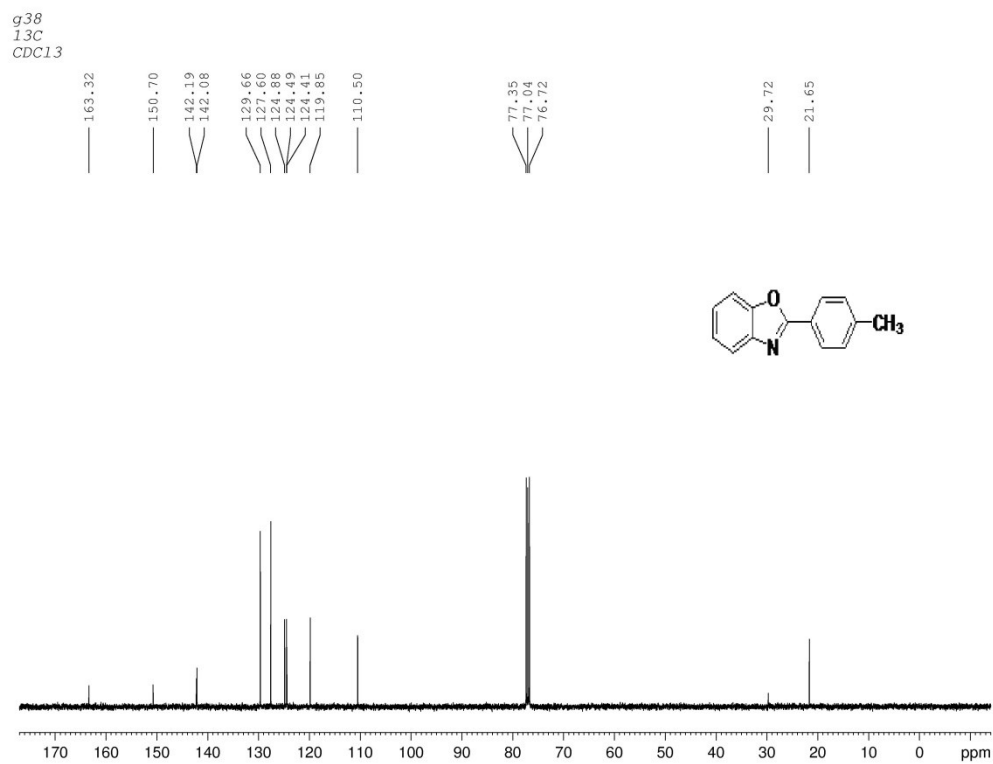
### <sup>13</sup>C NMR spectrum of **4c**:



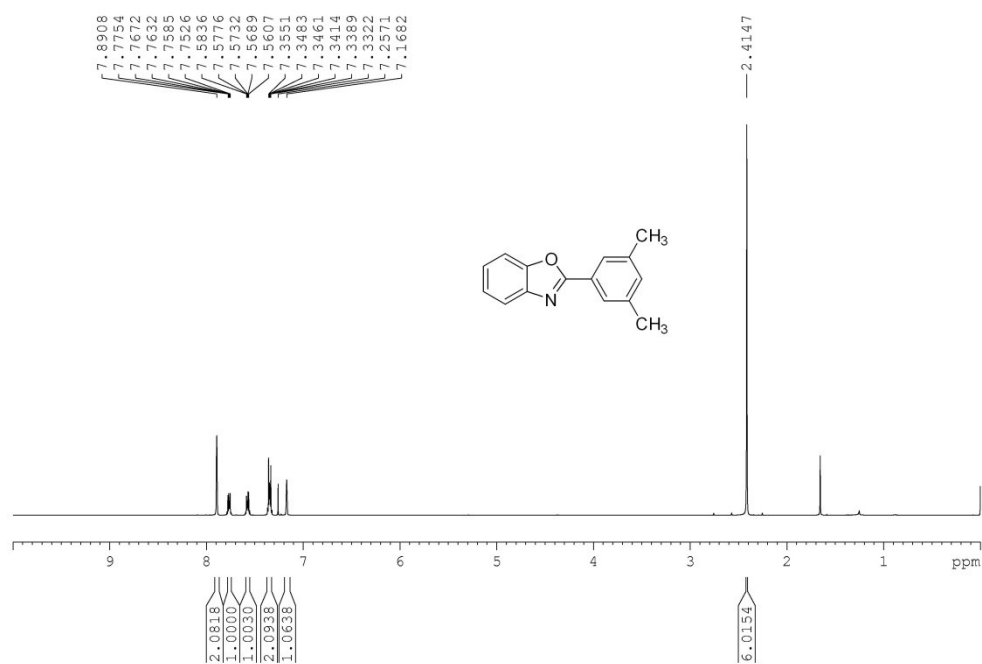
<sup>1</sup>H NMR spectrum of **4d**:



<sup>13</sup>C NMR spectrum of **4d**:



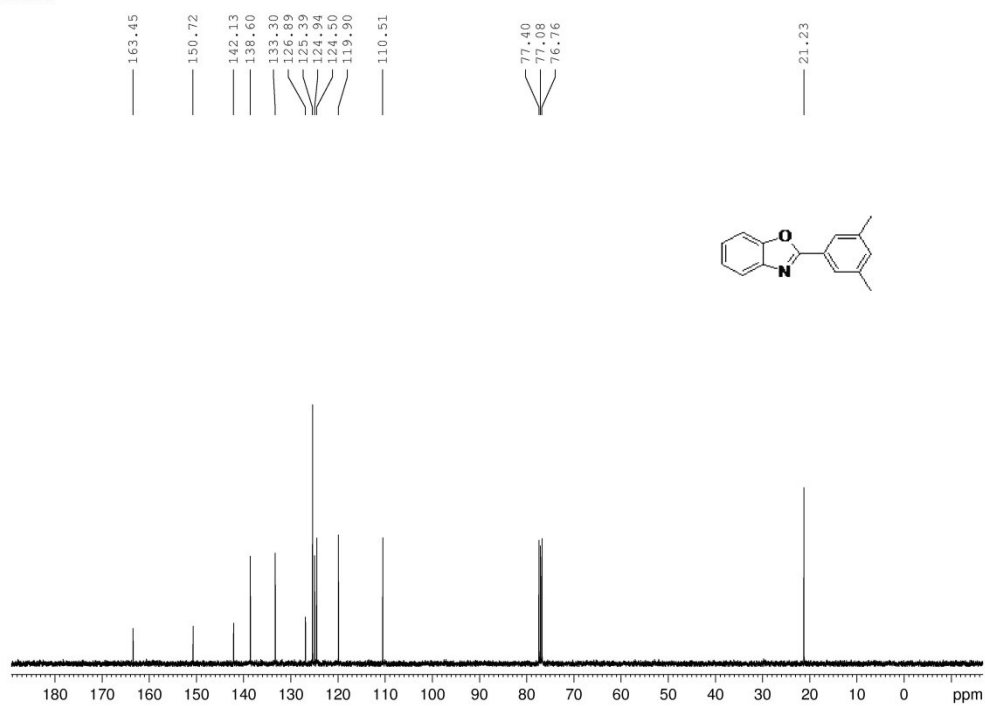
<sup>1</sup>H NMR spectrum of **4e**:



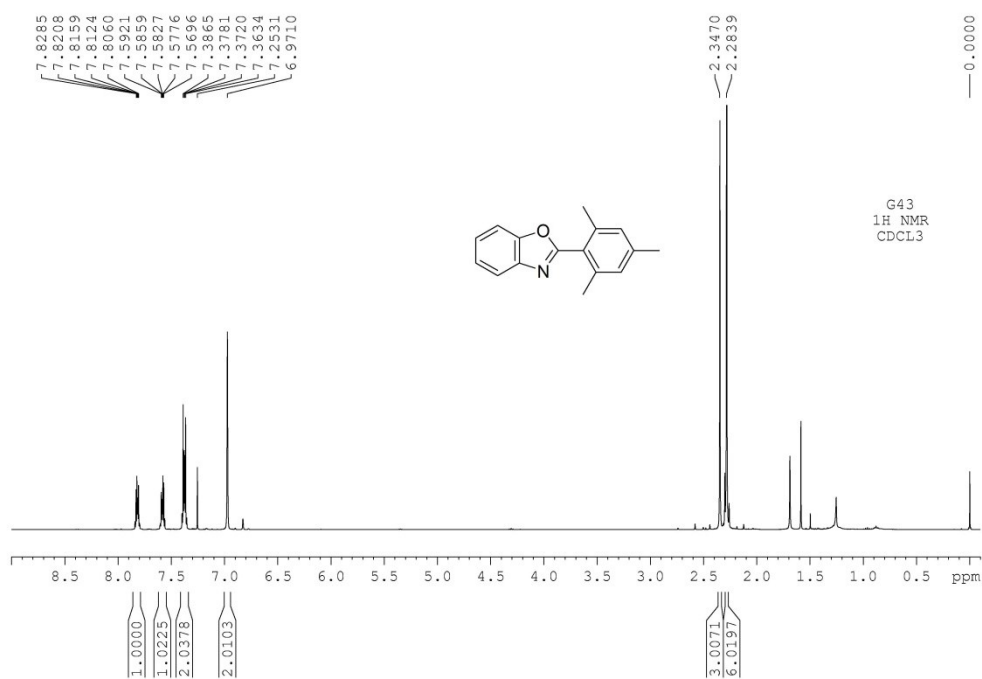
<sup>13</sup>C NMR spectrum of **4e**:

g42

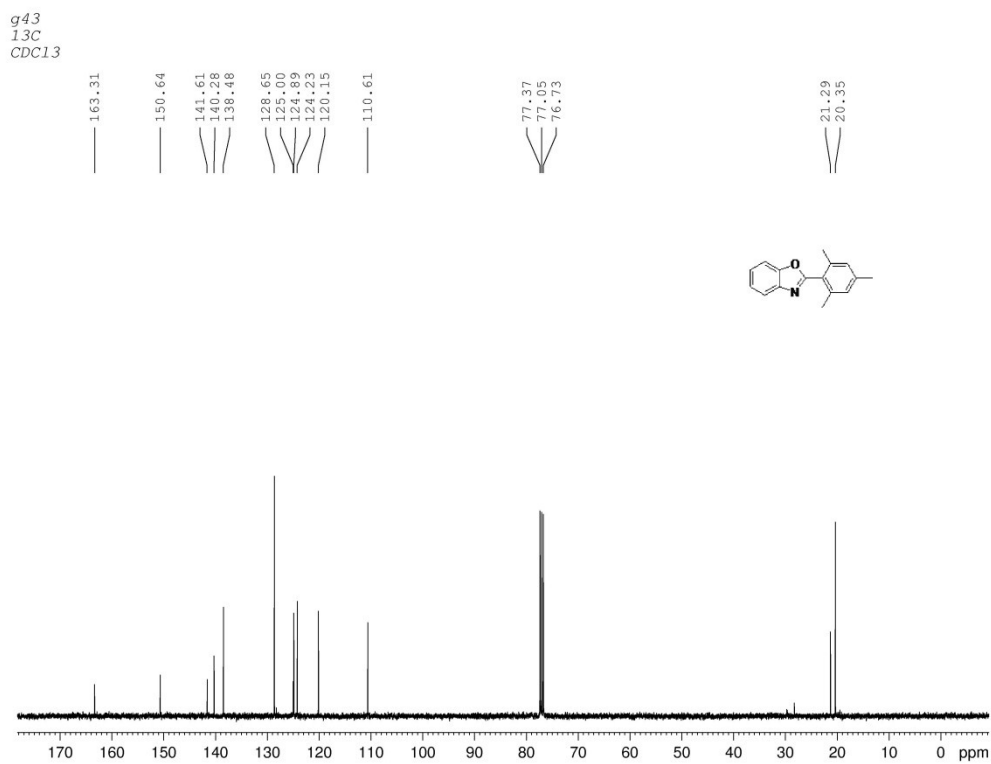
13C  
CDCl<sub>3</sub>



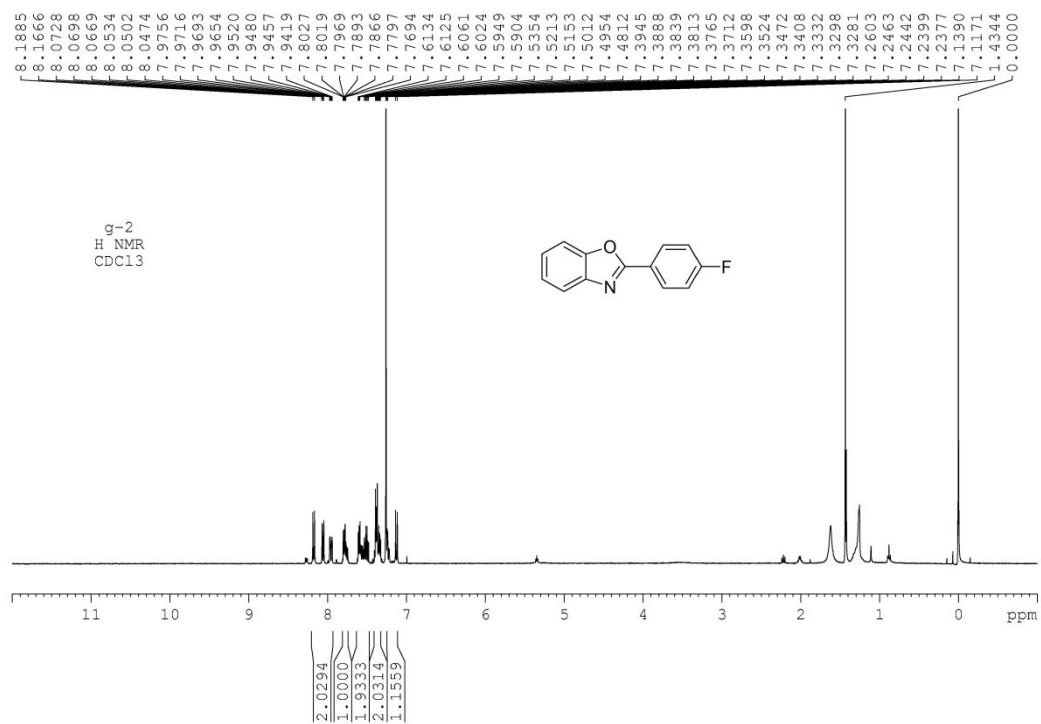
<sup>1</sup>H NMR spectrum of **4f**:



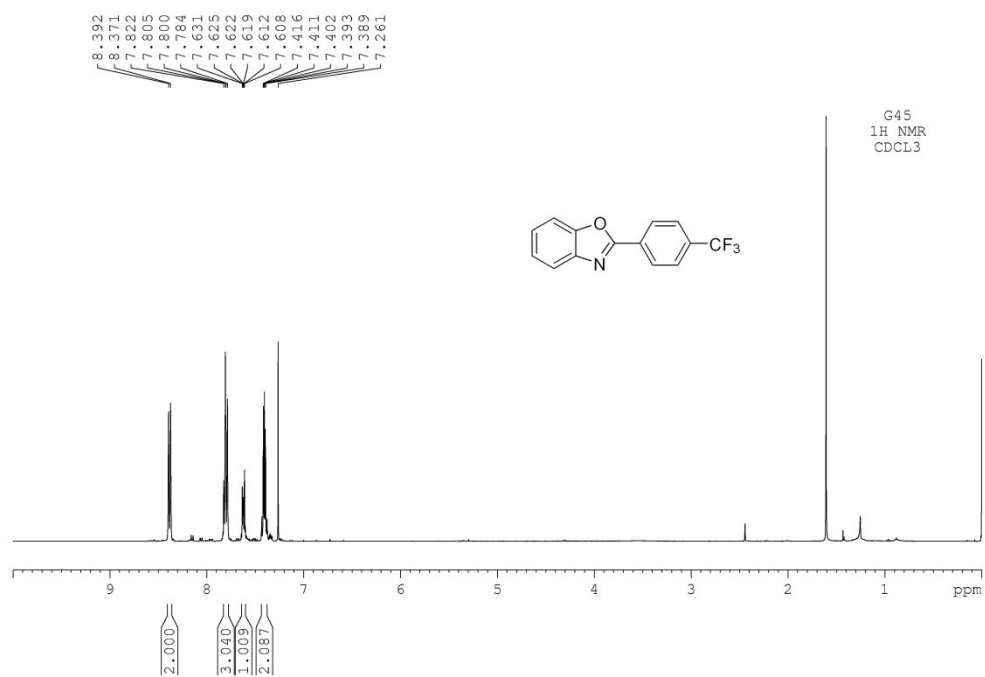
<sup>13</sup>C NMR spectrum of **4f**:



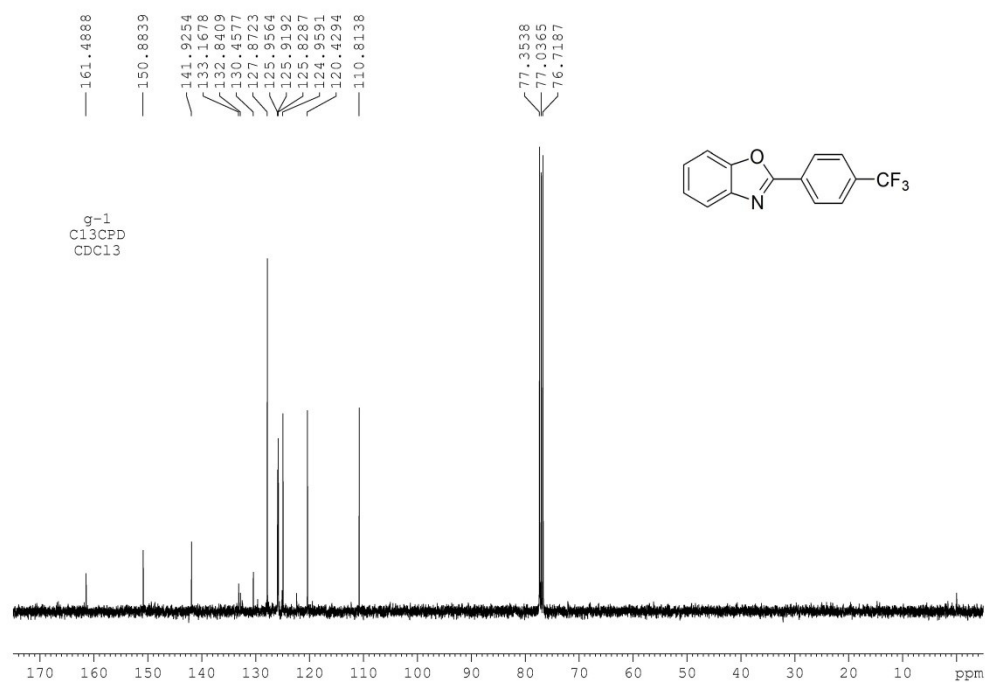
<sup>1</sup>H NMR spectrum of **4g**:



<sup>1</sup>H NMR spectrum of **4h**:

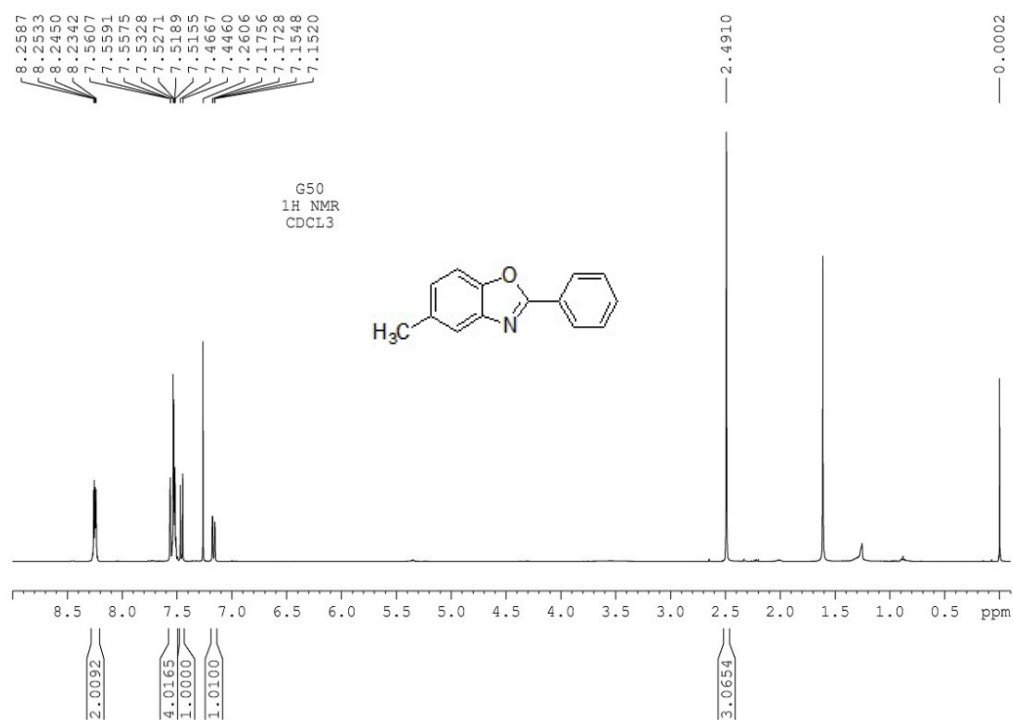


<sup>13</sup>C NMR spectrum of **4h**:

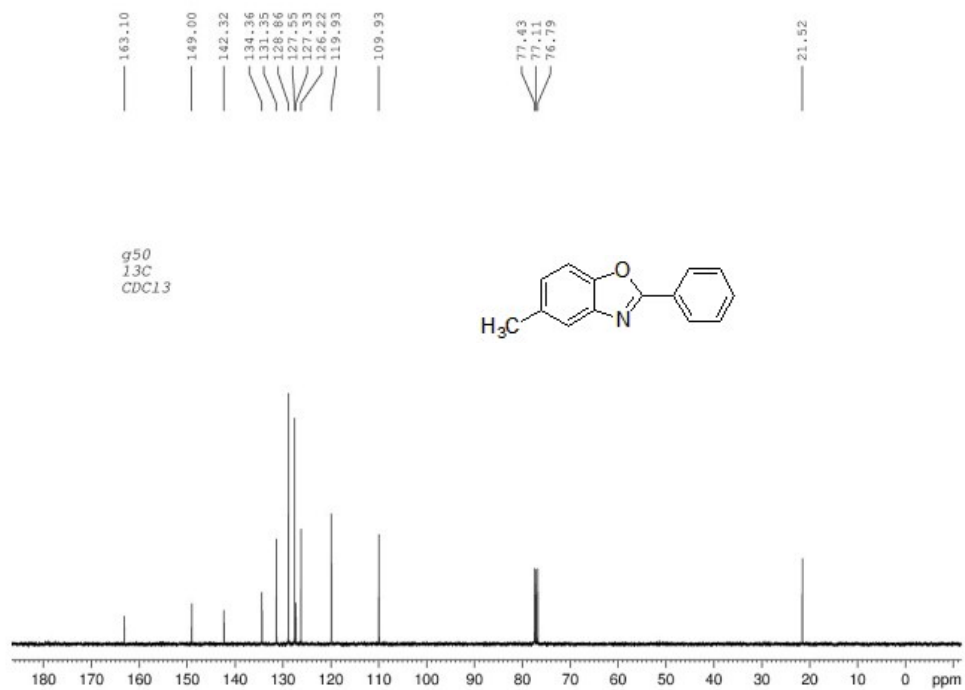




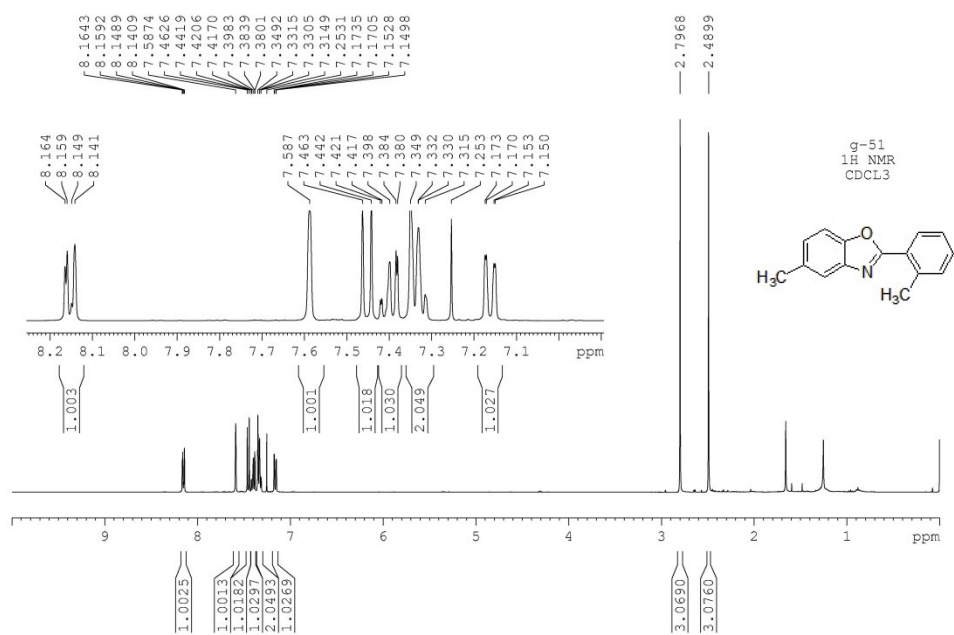
<sup>1</sup>H NMR spectrum of **4i**:



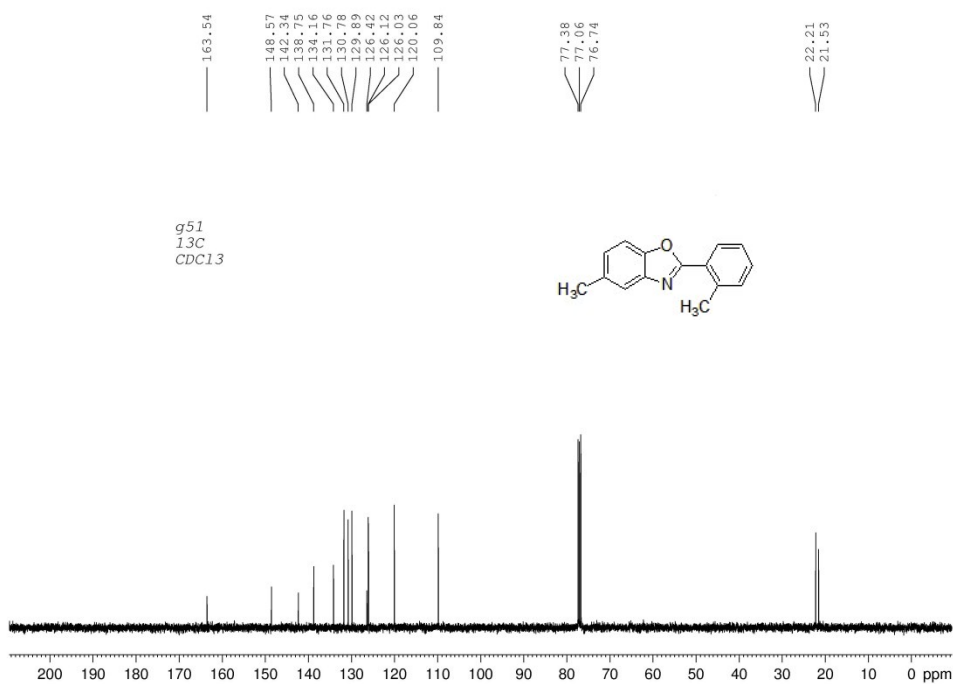
<sup>13</sup>C NMR spectrum of **4i**:



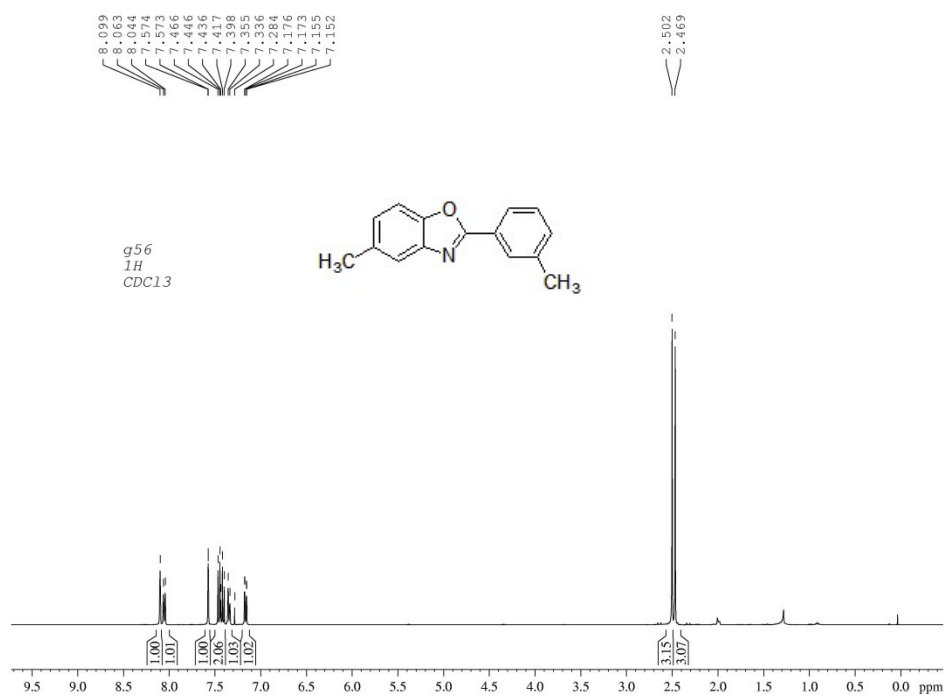
<sup>1</sup>H NMR spectrum of **4j**:



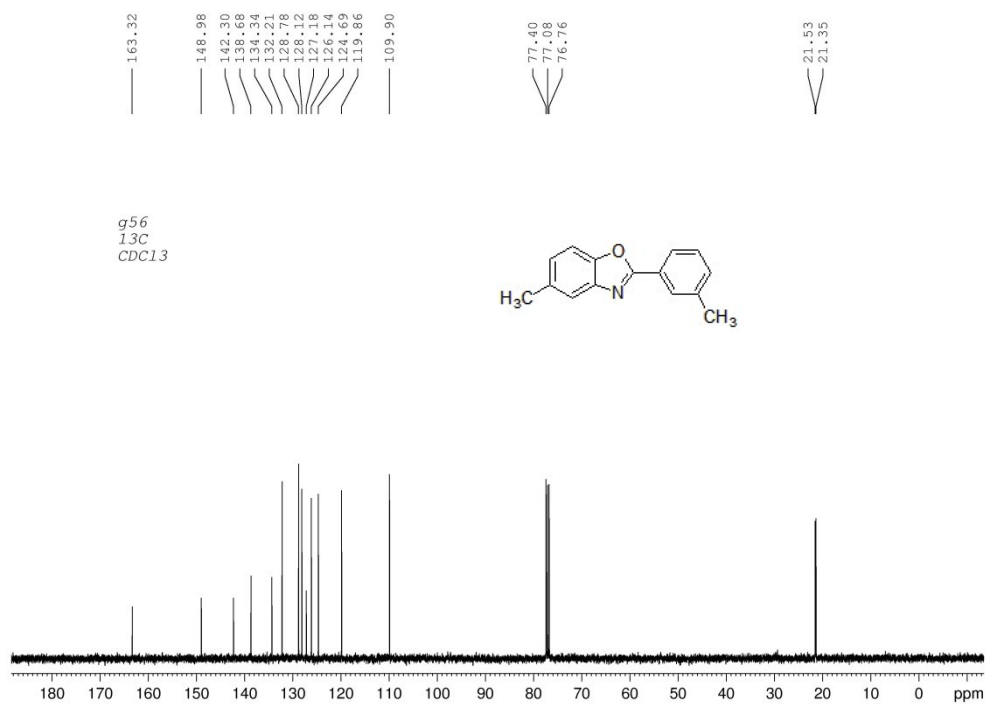
<sup>13</sup>C NMR spectrum of **4j**:



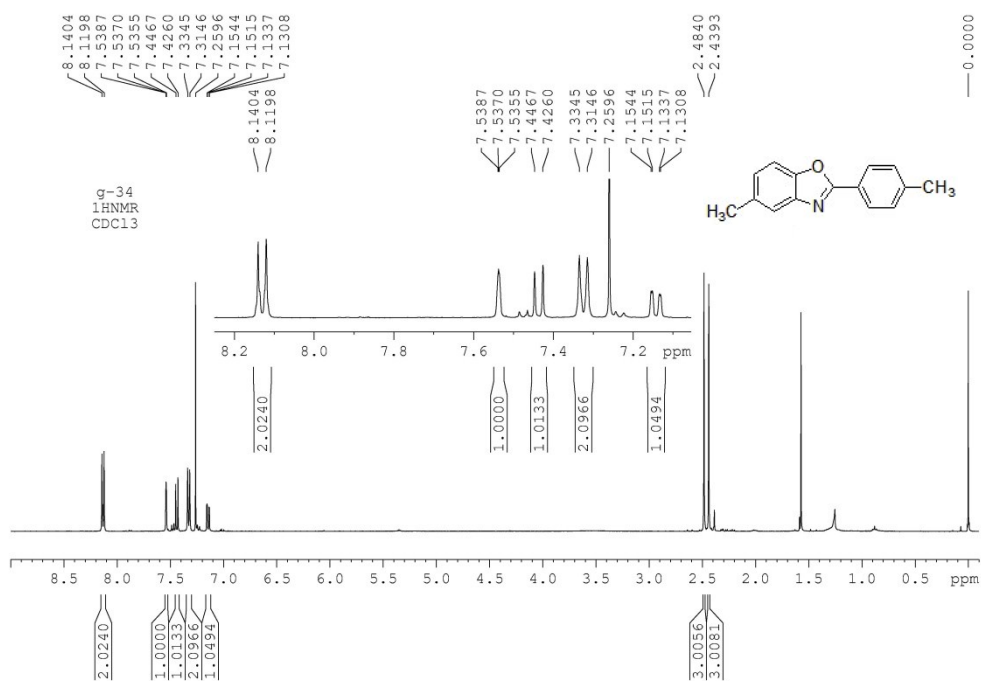
### <sup>1</sup>H NMR spectrum of **4k**:



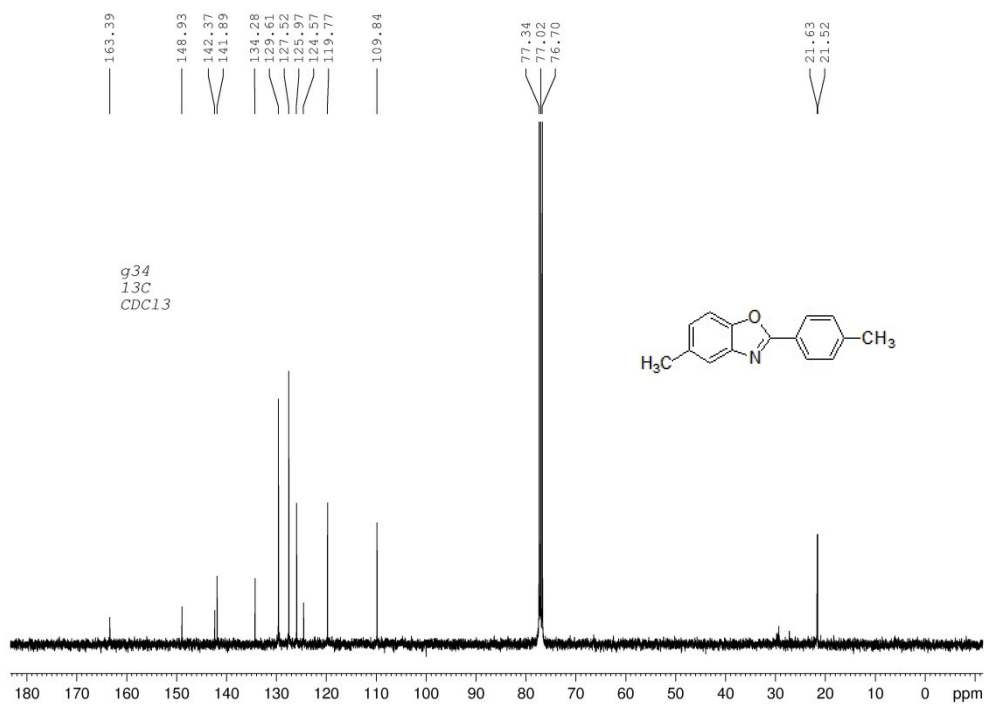
### <sup>13</sup>C NMR spectrum of **4k**:



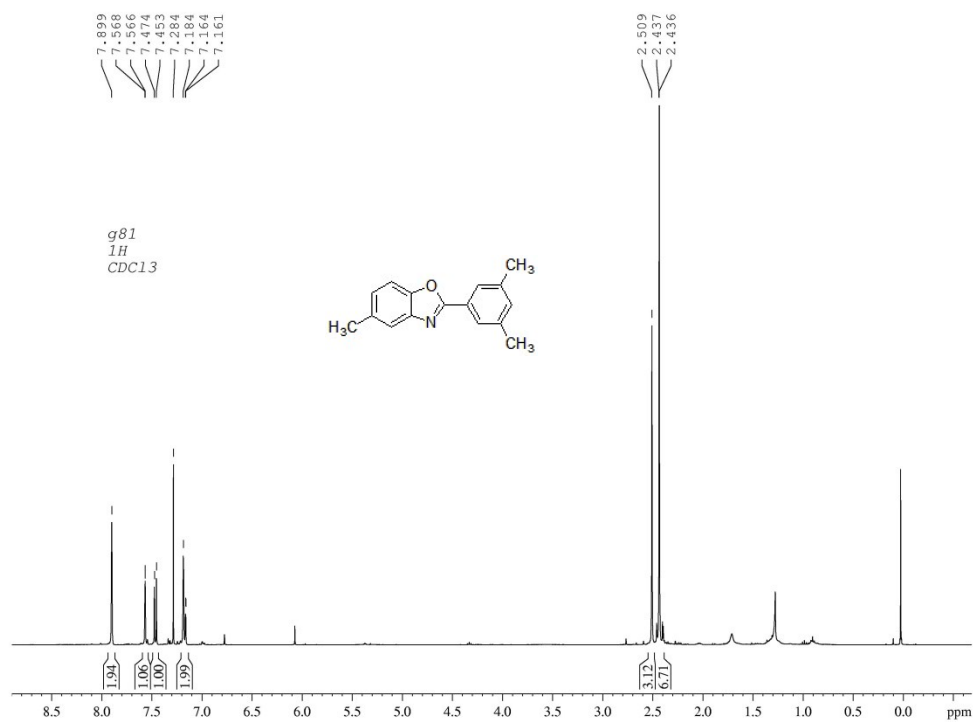
<sup>1</sup>H NMR spectrum of **4l**:



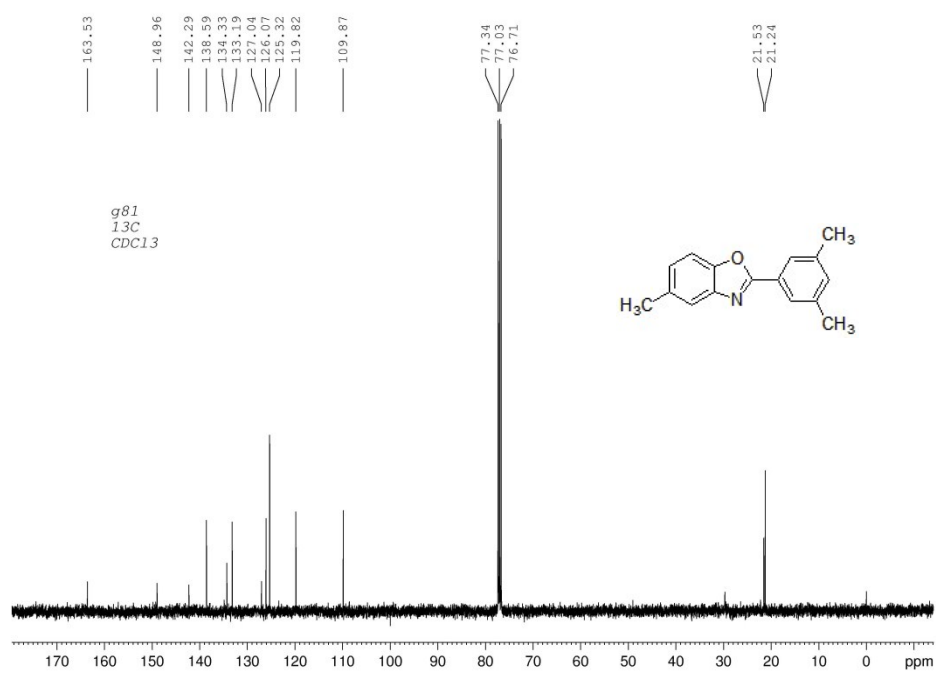
<sup>13</sup>C NMR spectrum of **4l**:



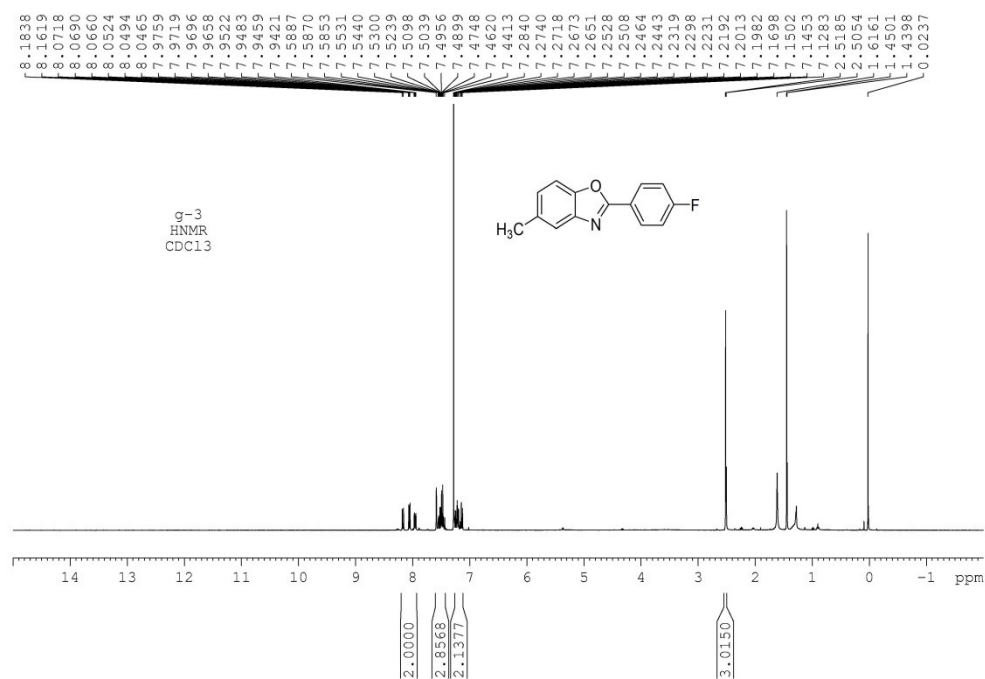
<sup>1</sup>H NMR spectrum of **4m**:



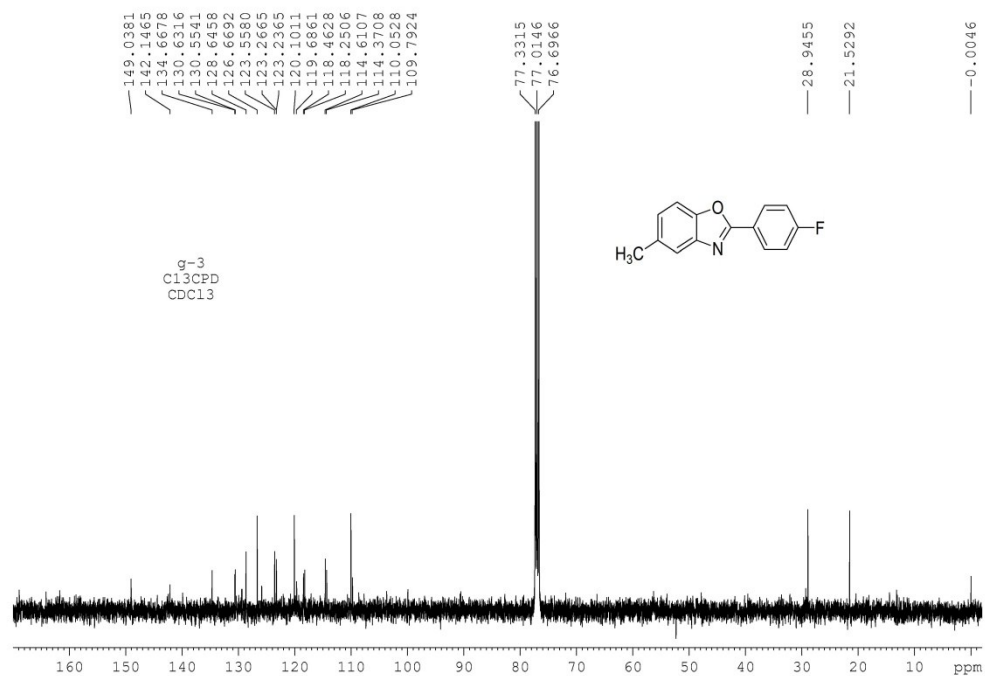
<sup>13</sup>C NMR spectrum of **4m**:



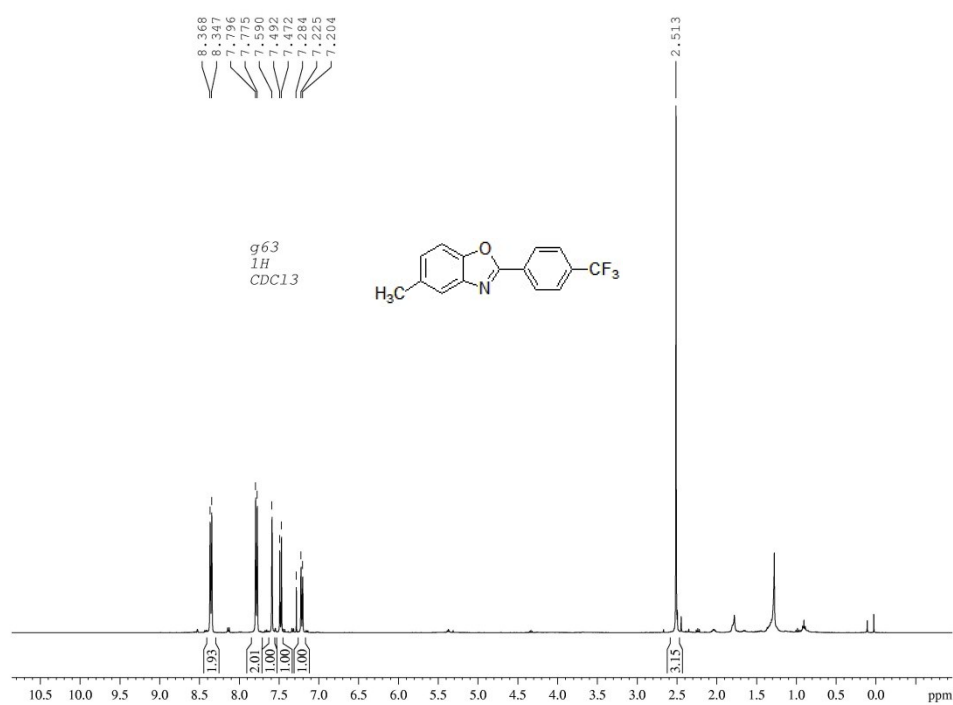
### <sup>1</sup>H NMR spectrum of **4n**:



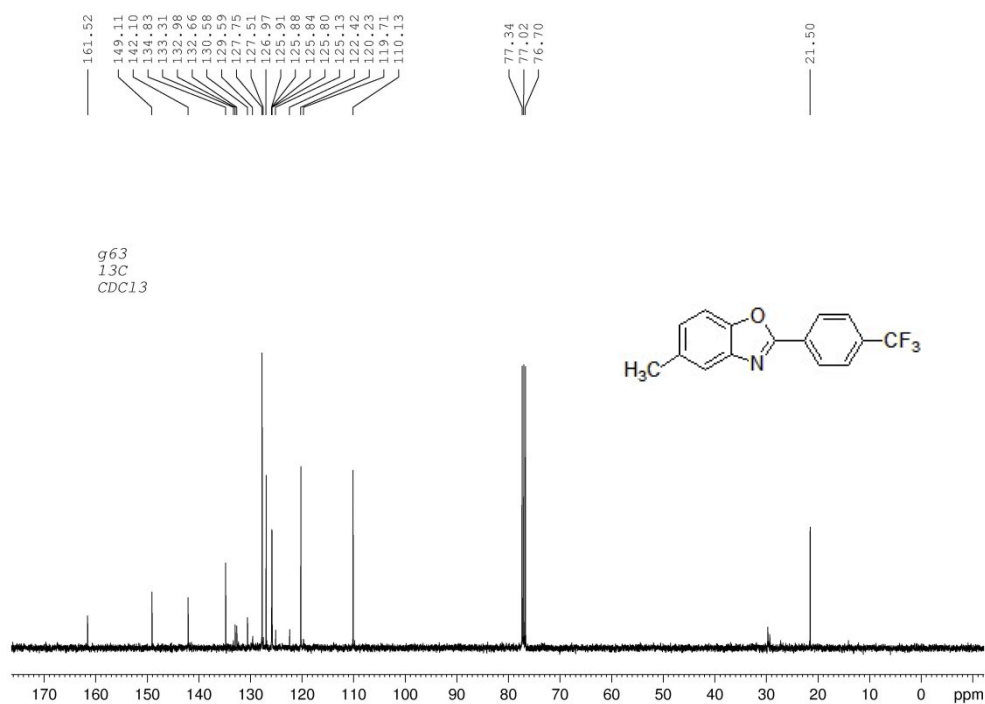
### <sup>13</sup>C NMR spectrum of **4n**:



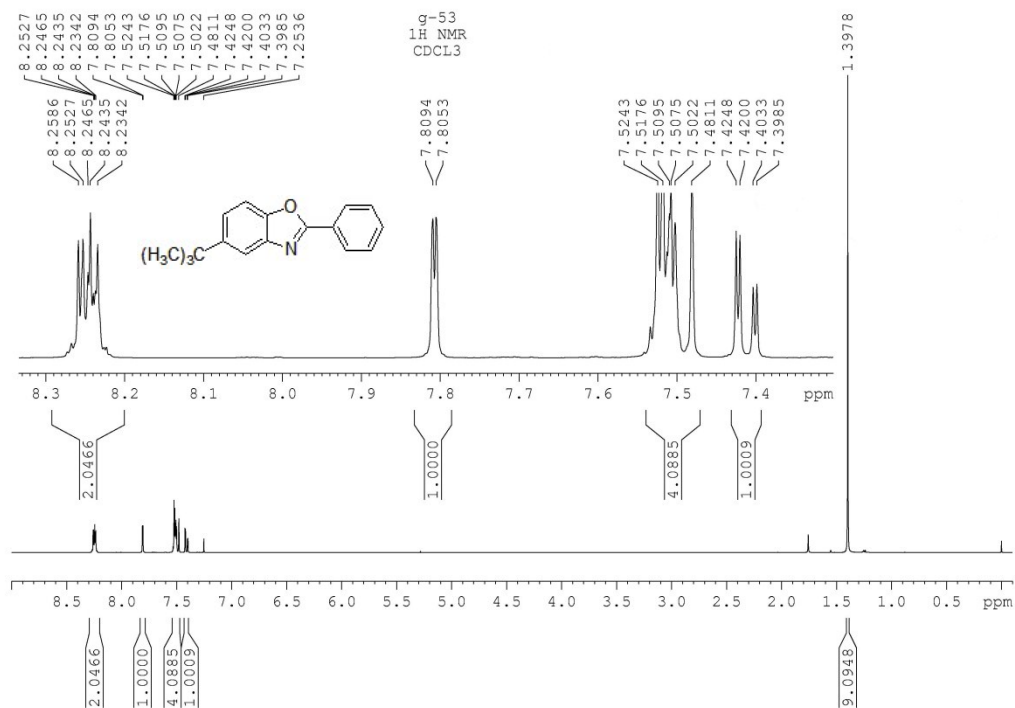
<sup>1</sup>H NMR spectrum of **4o**:



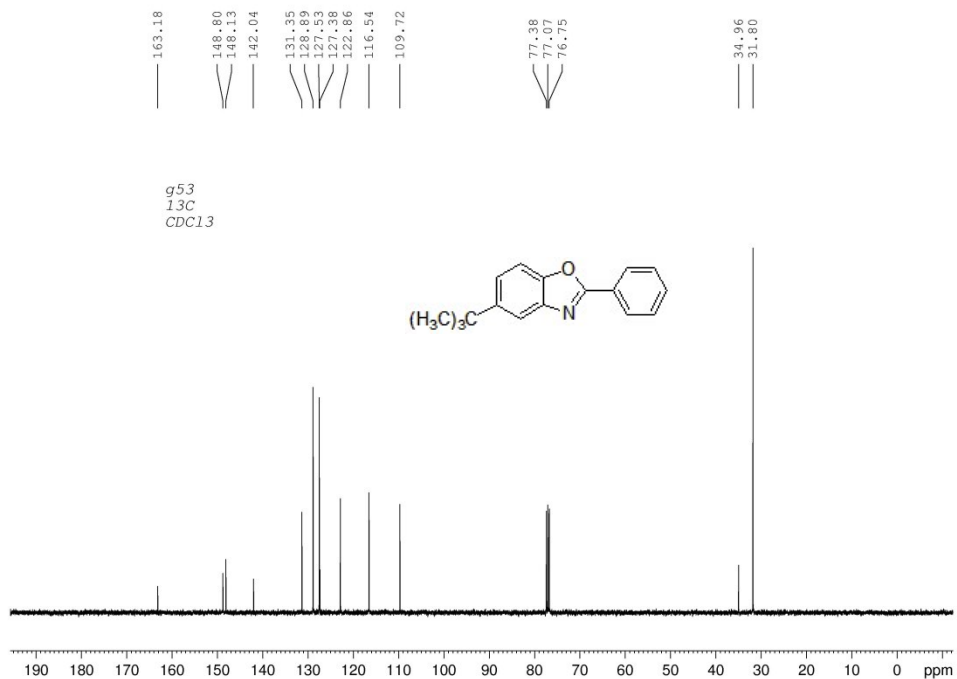
<sup>13</sup>C NMR spectrum of **4o**:



<sup>1</sup>H NMR spectrum of **4p**:

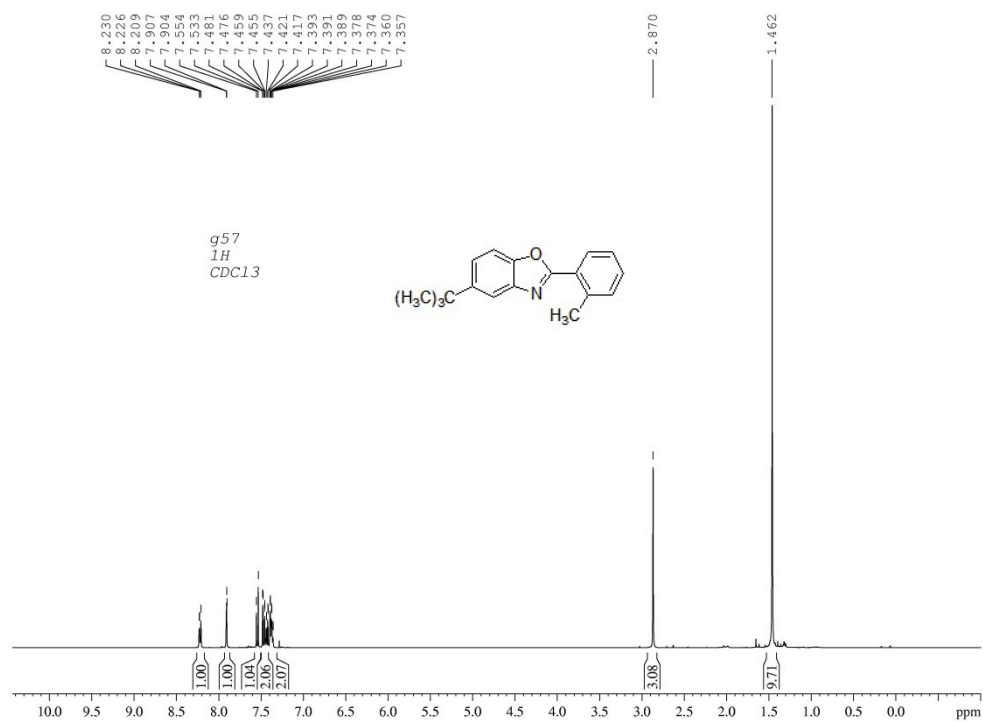


<sup>13</sup>C NMR spectrum of **4p**:

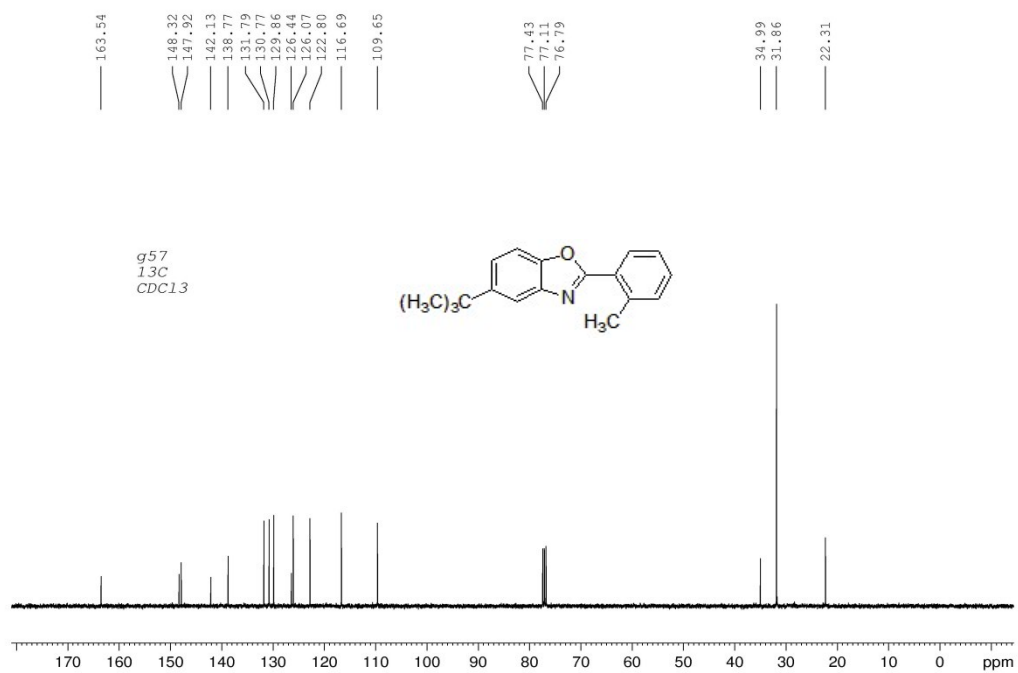




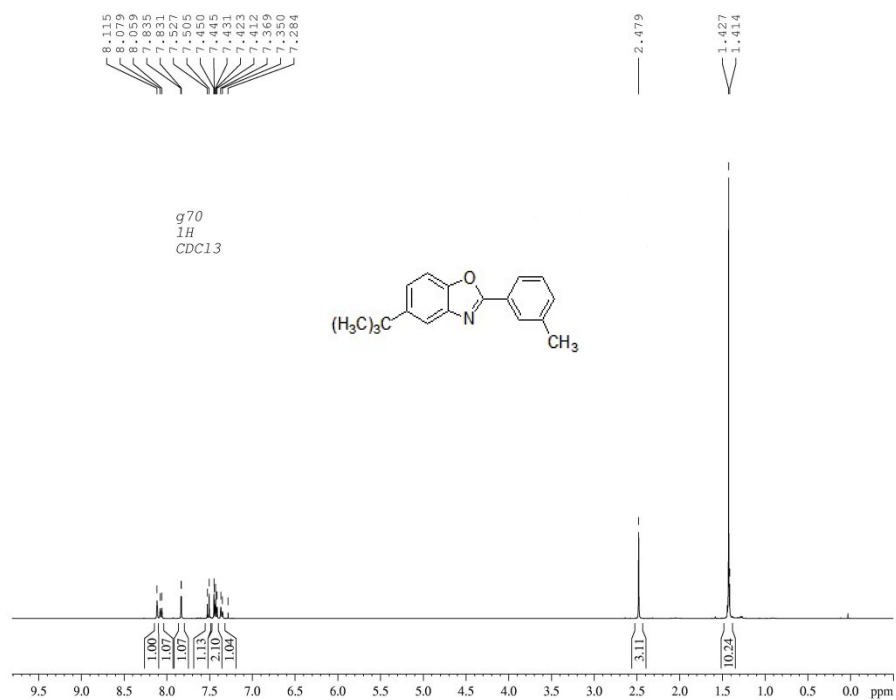
### <sup>1</sup>H NMR spectrum of **4q**:



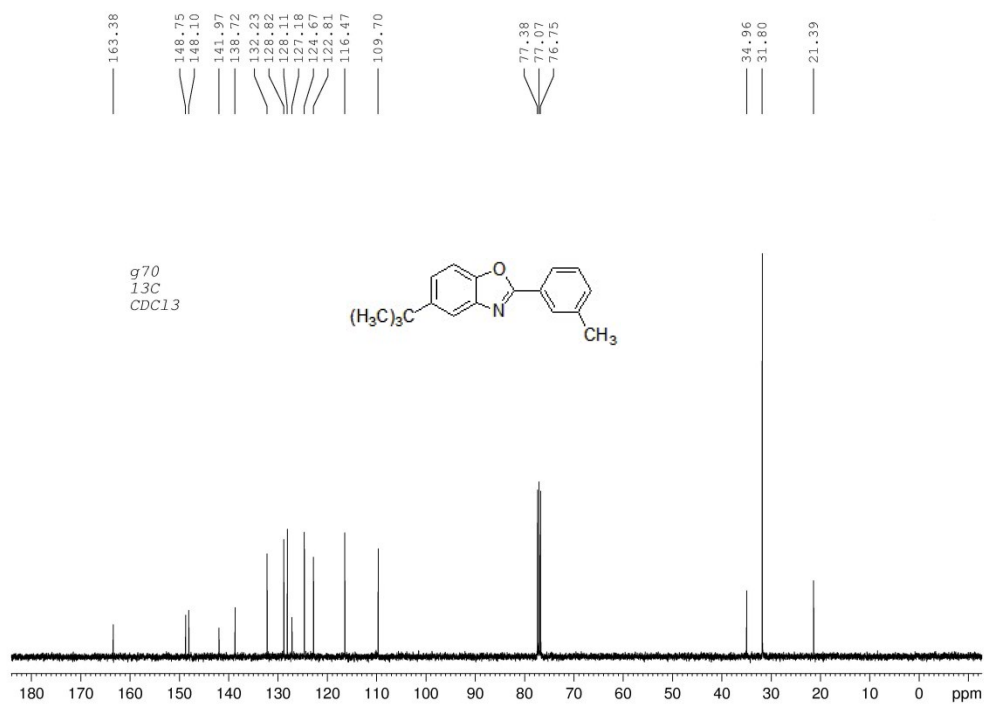
### <sup>13</sup>C NMR spectrum of **4q**:



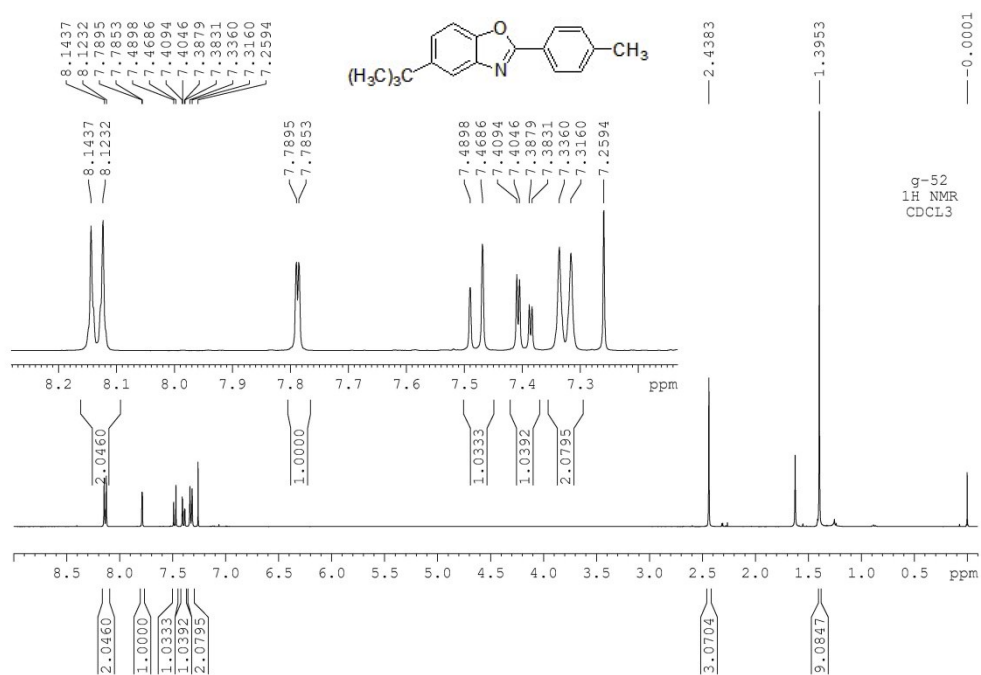
<sup>1</sup>H NMR spectrum of **4r**:



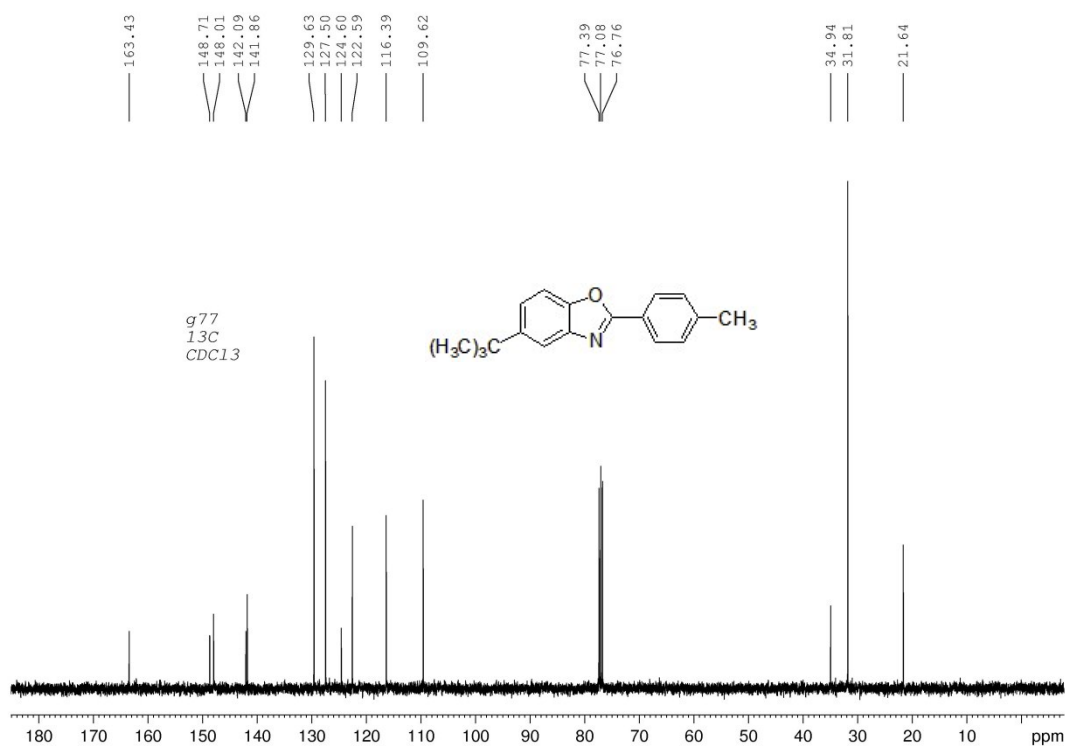
<sup>13</sup>C NMR spectrum of **4r**:



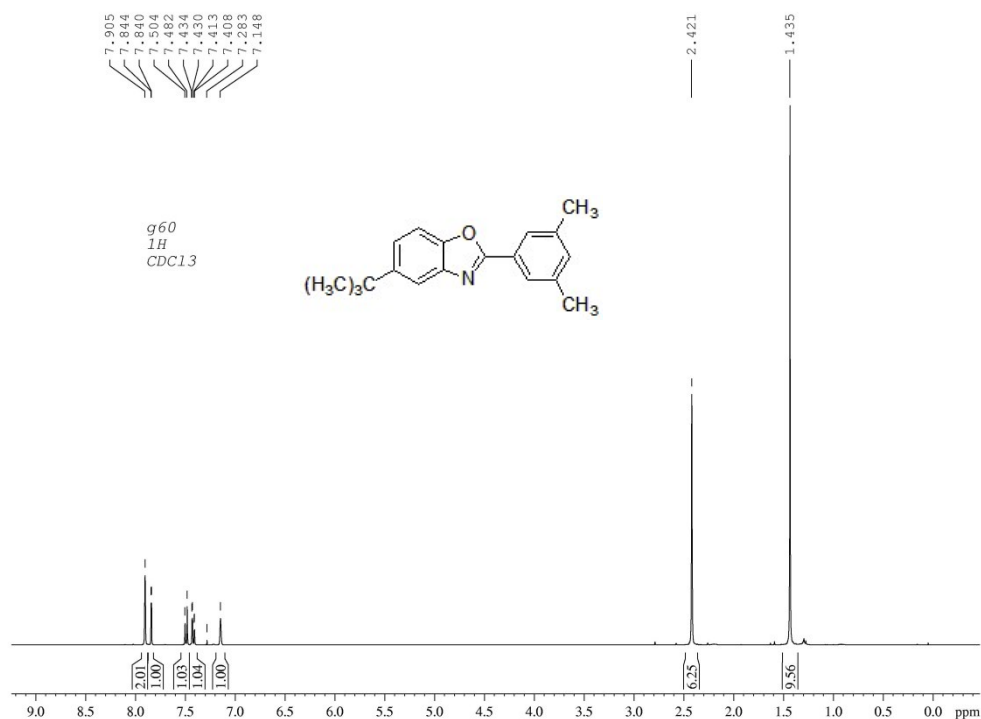
<sup>1</sup>H NMR spectrum of **4s**:



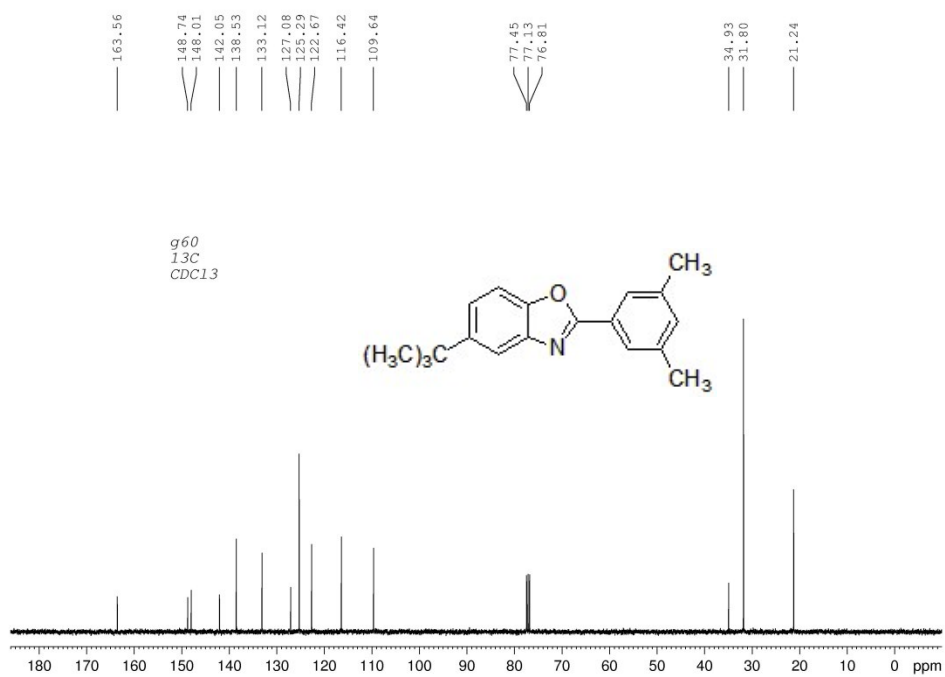
<sup>13</sup>C NMR spectrum of **4s**:



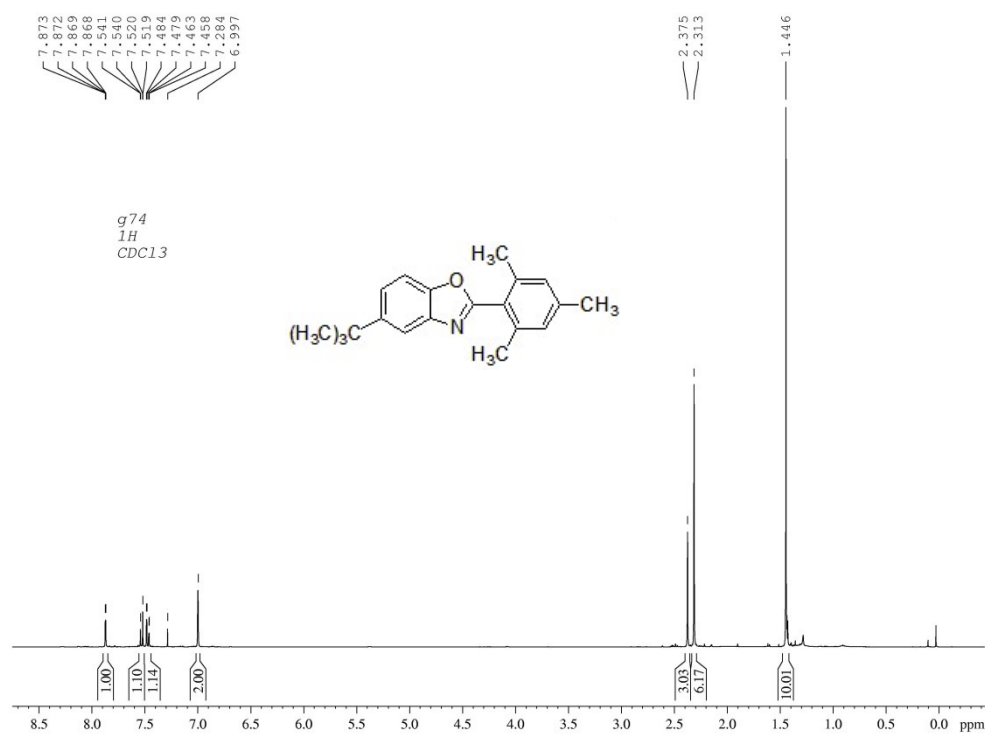
### <sup>1</sup>H NMR spectrum of 4t:



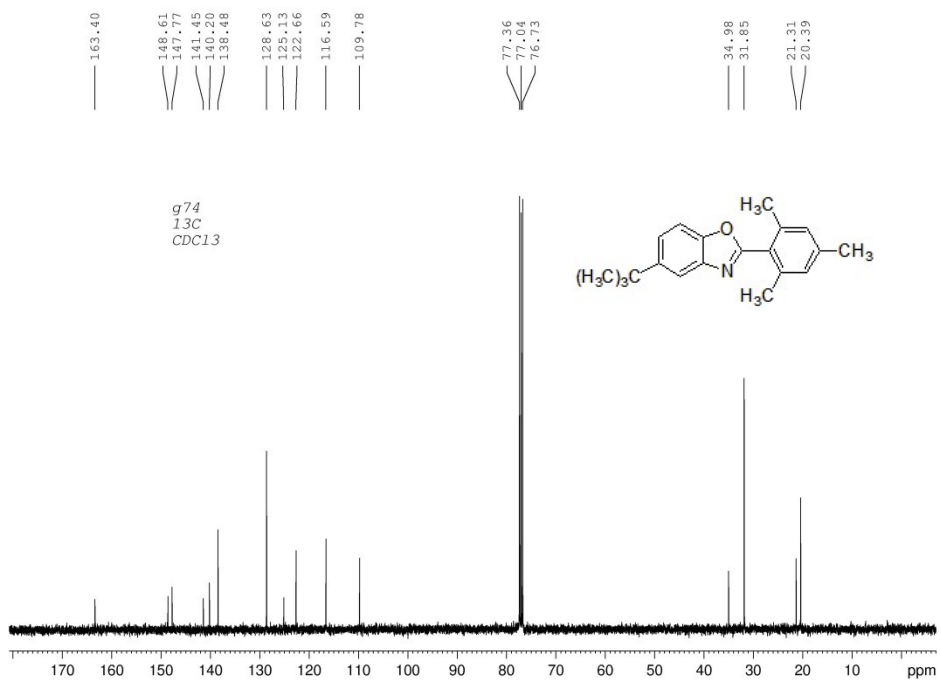
### <sup>13</sup>C NMR spectrum of 4t:



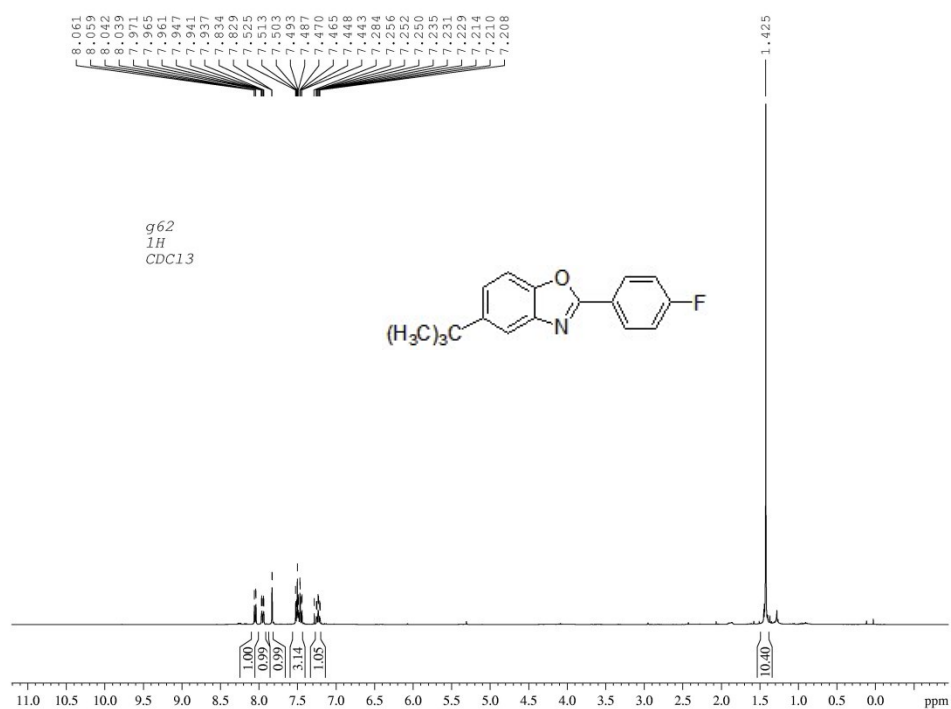
### <sup>1</sup>H NMR spectrum of **4u**:



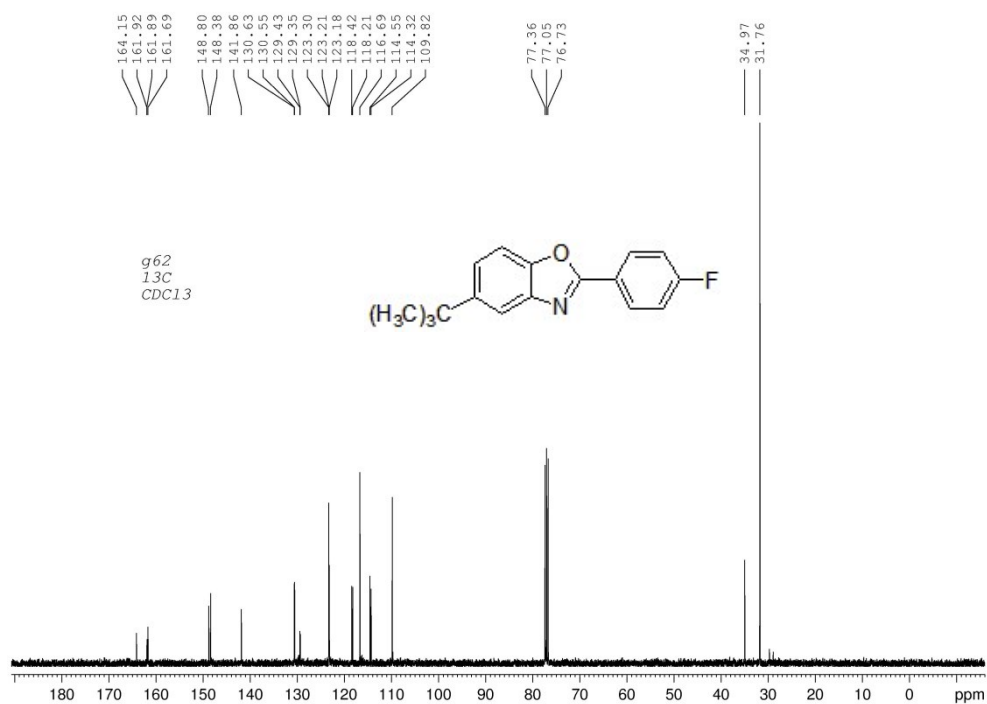
### <sup>13</sup>C NMR spectrum of **4u**:



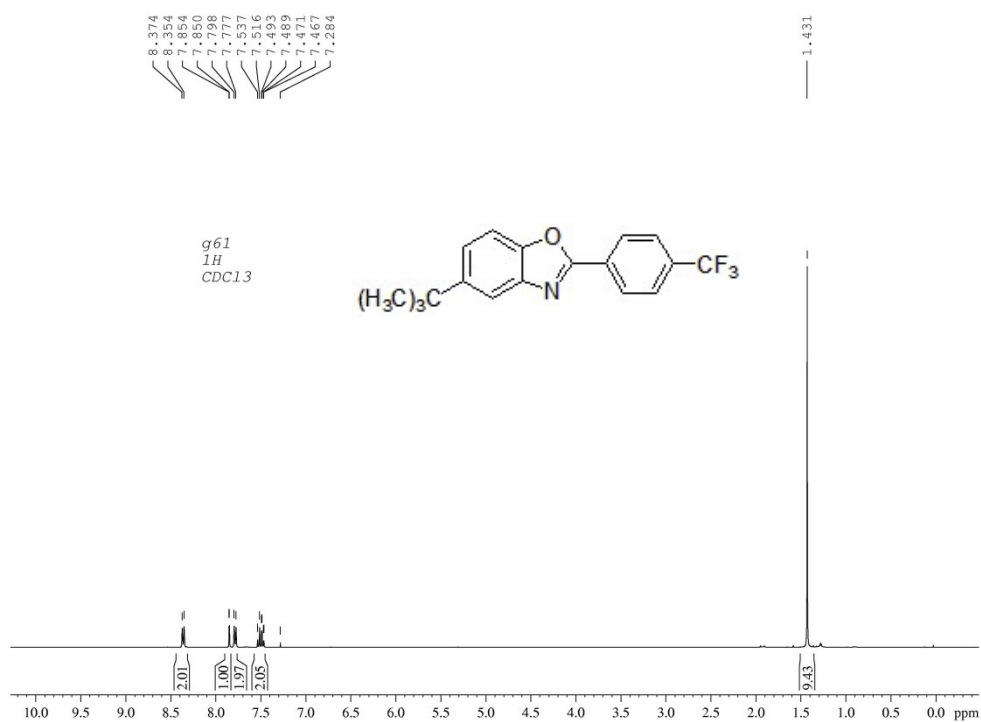
<sup>1</sup>H NMR spectrum of **4v**:



<sup>13</sup>C NMR spectrum of **4v**:



<sup>1</sup>H NMR spectrum of **4w**:



<sup>13</sup>C NMR spectrum of **4w**:

