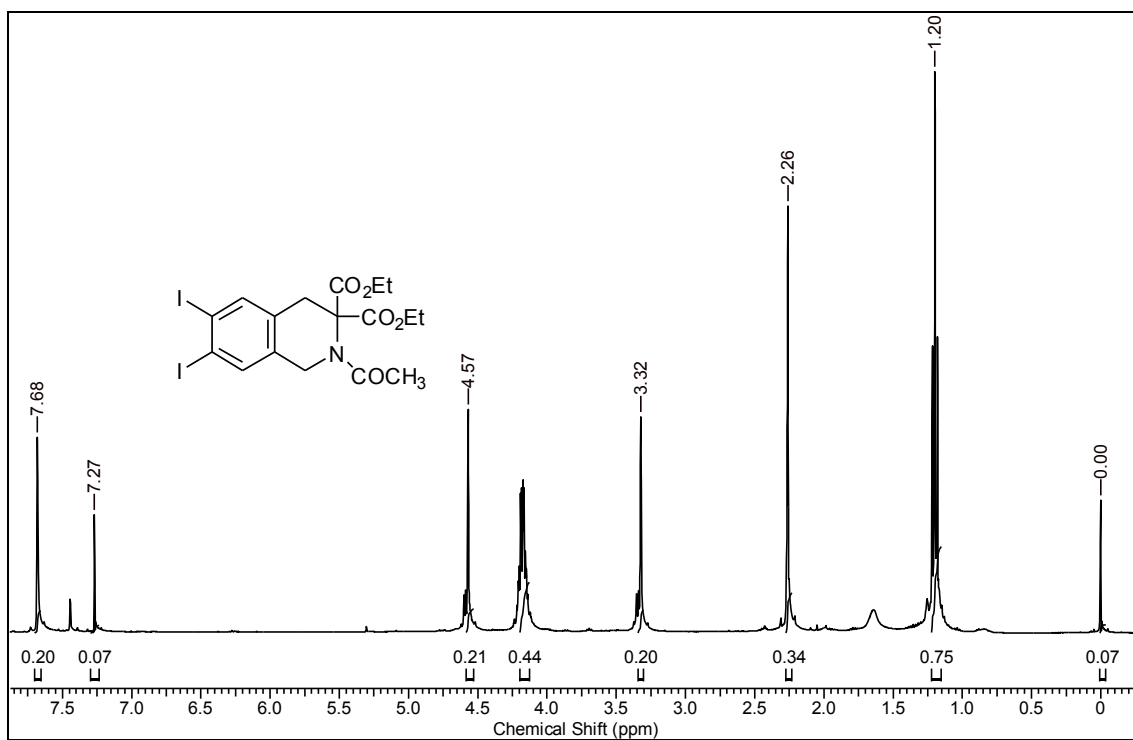


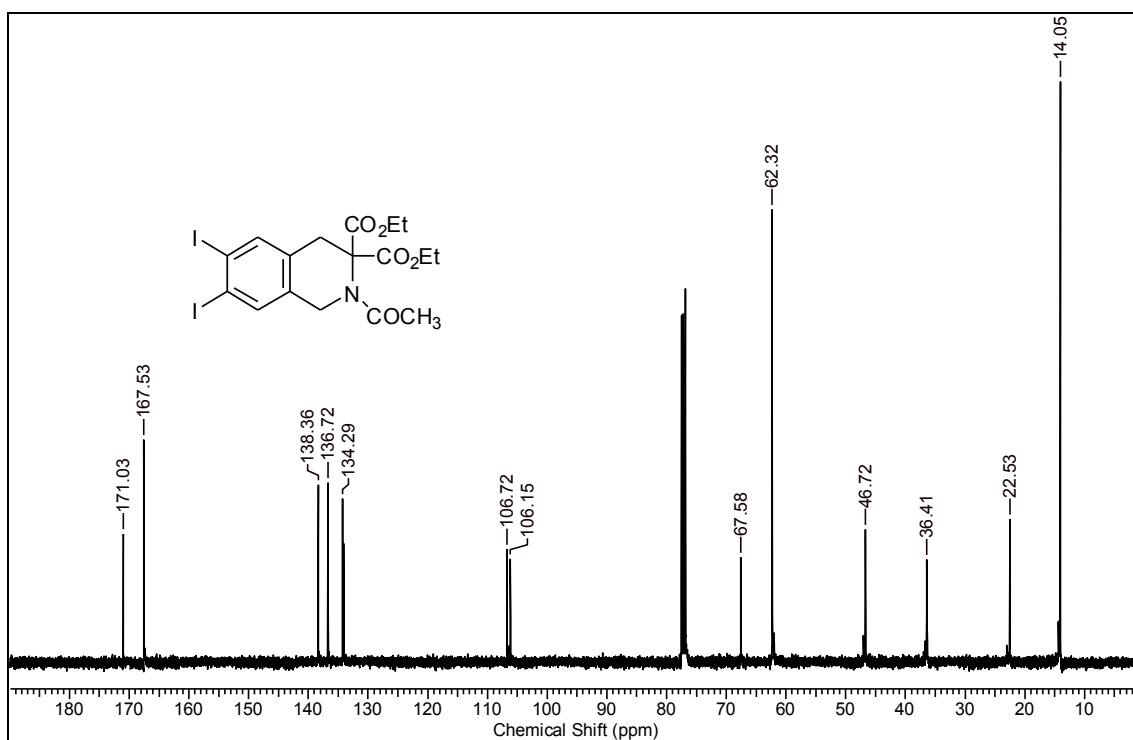
**DIVERSITY-ORIENTED APPROACH TO 1,2,3,4  
TETRAHYDROISOQUINOLINE-3-CARBOXYLIC ACID  
(TIC) DERIVATIVES**

**Sambasivarao Kotha,\* Shilpi Misra, Nimita Gopal Krishna, Vijayalakshmi Bandi,  
Mohammad Saifuddin, and Nagaraju Devunuri**

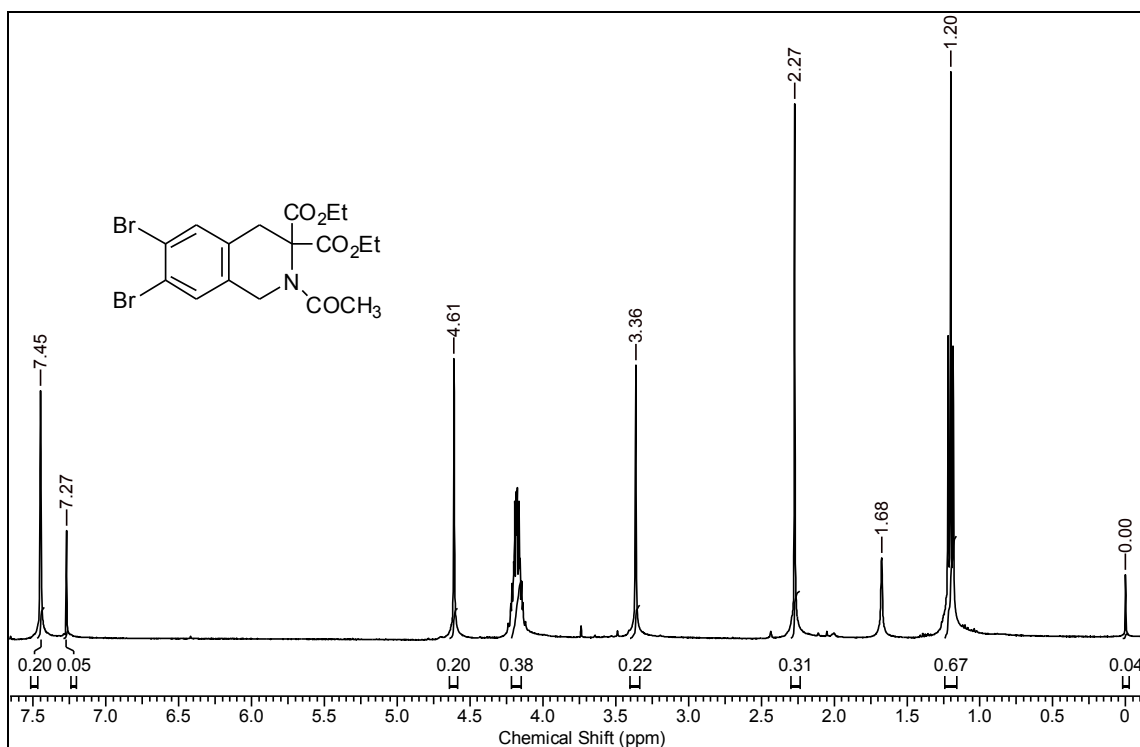
Department of Chemistry, Indian Institute of Technology-Bombay, Powai, Mumbai-  
400076 India, Phone: +91-22-2576 7160, Fax: +91(22)-2572 7152; E-mail:  
srk@chem.iitb.ac.in



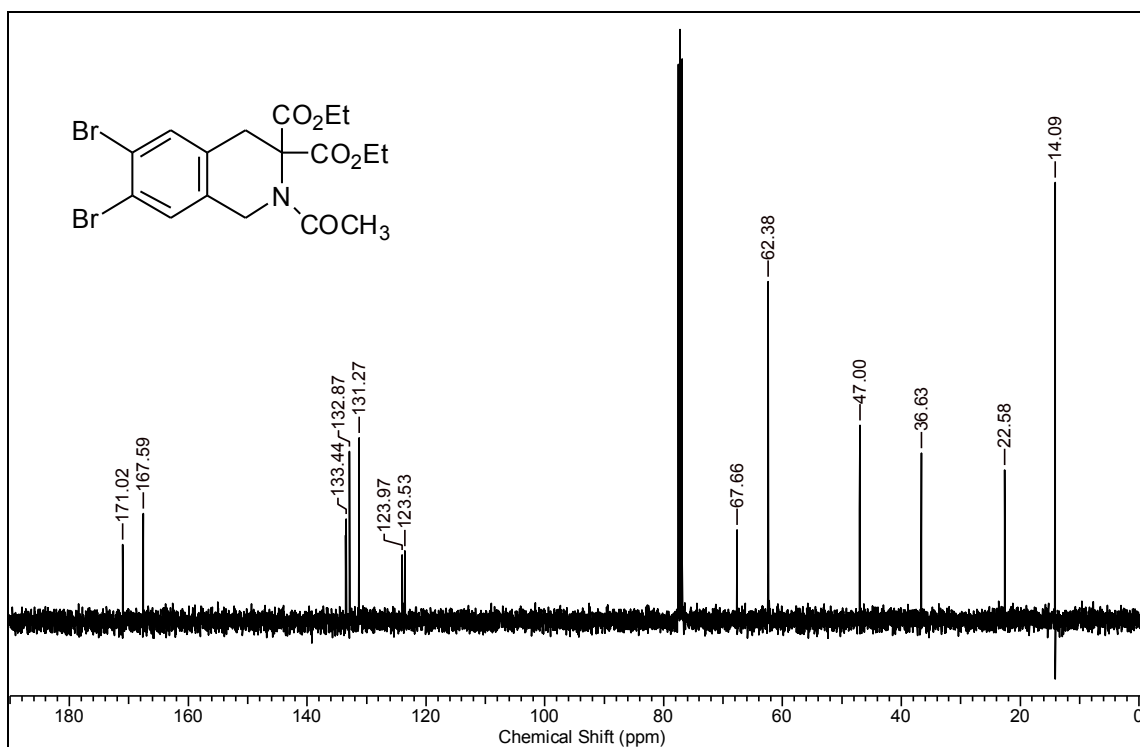
**Figure 1:**  $^1\text{H}$  NMR spectrum of compound **6a**



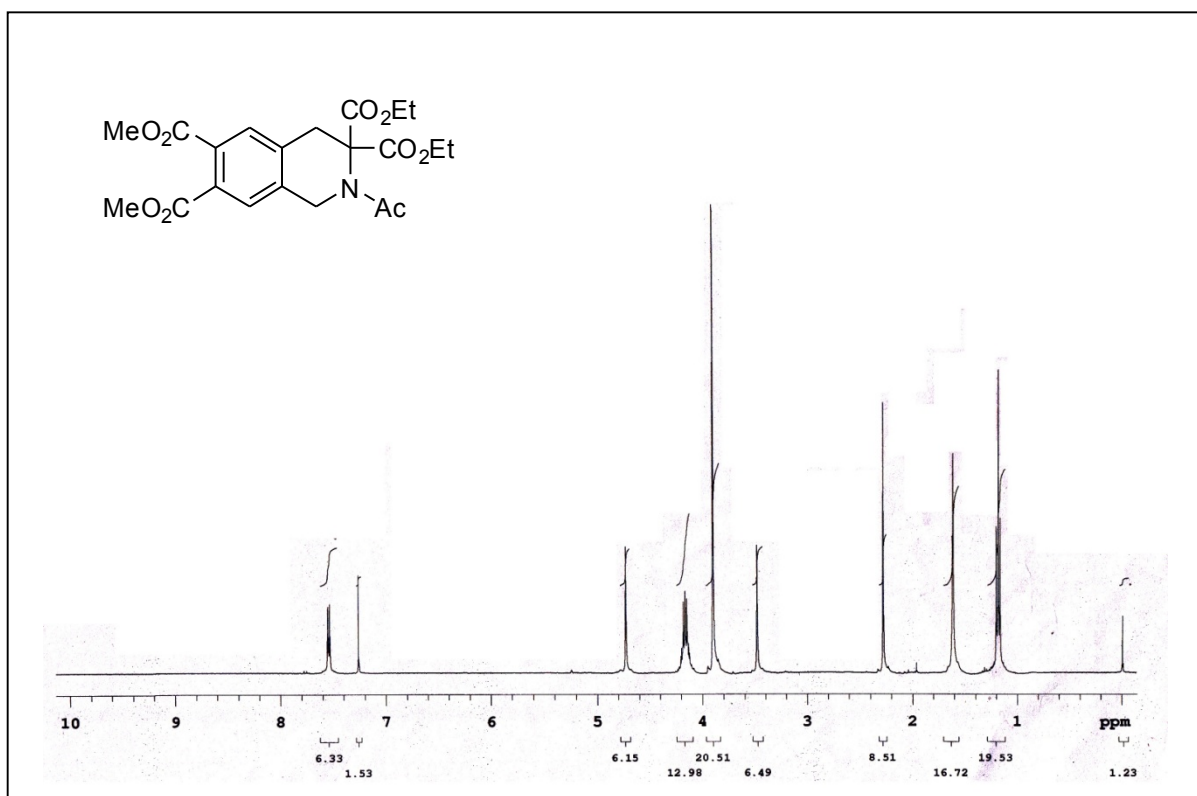
**Figure 2:**  $^{13}\text{C}$  NMR spectrum of compound **6a**



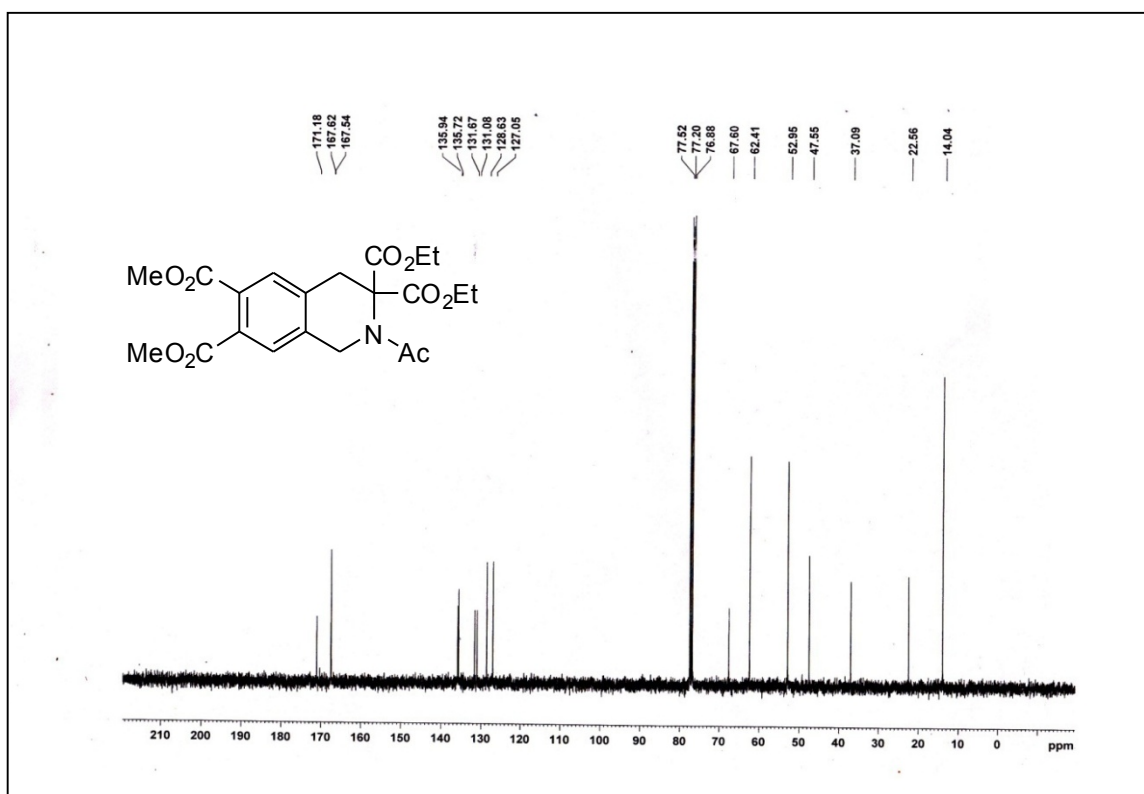
**Figure 3:**  $^1\text{H}$  NMR spectrum of compound **6b**



**Figure 4:**  $^{13}\text{C}$  NMR spectrum of compound **6b**



**Figure 5:** <sup>1</sup>H NMR spectrum of compound **6c**



**Figure 6:** <sup>13</sup>C NMR spectrum of compound **6c**

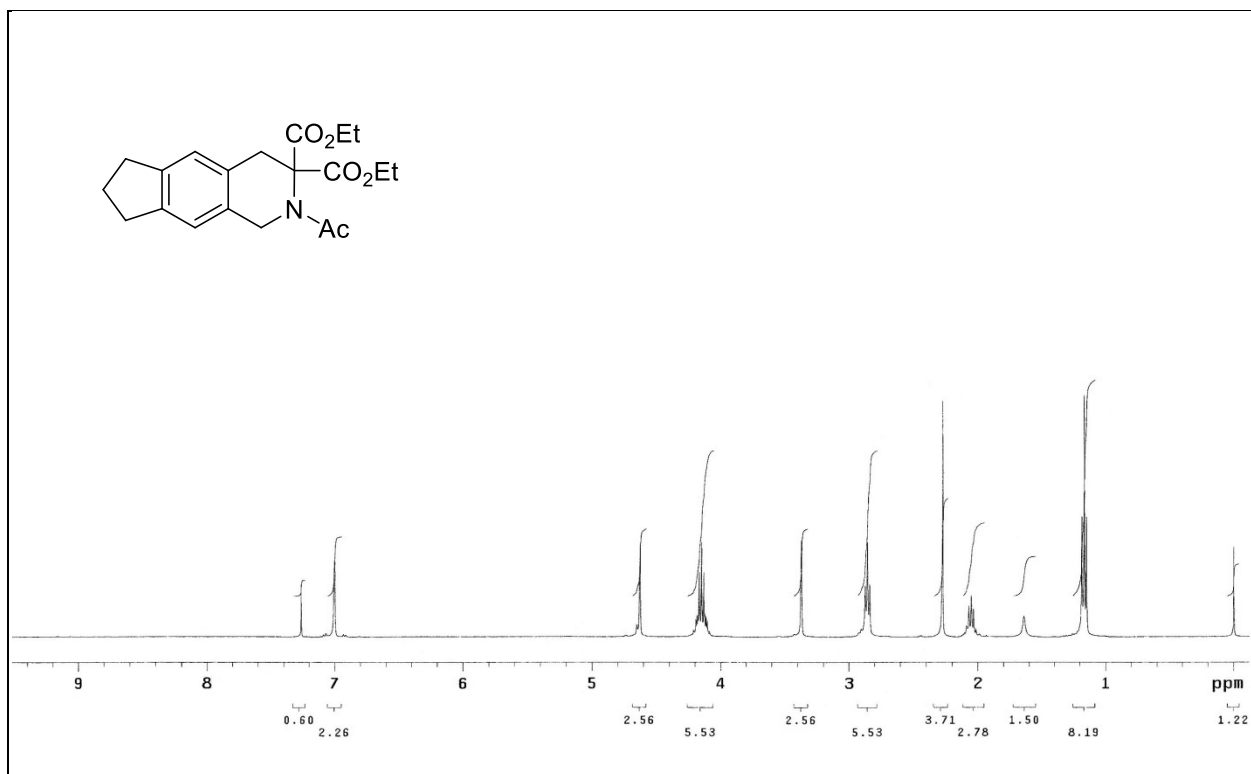


Figure 7: <sup>1</sup>H NMR spectrum of compound 6d

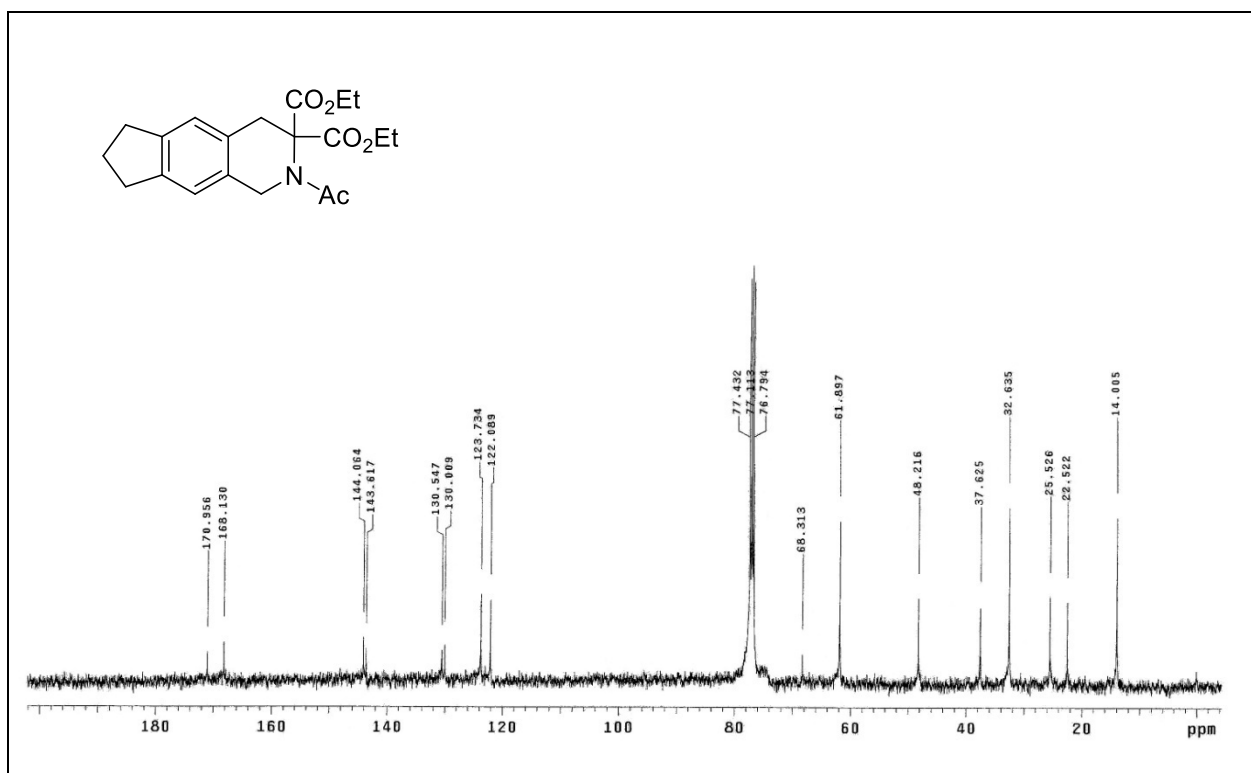


Figure 8: <sup>13</sup>C NMR spectrum of compound 6d

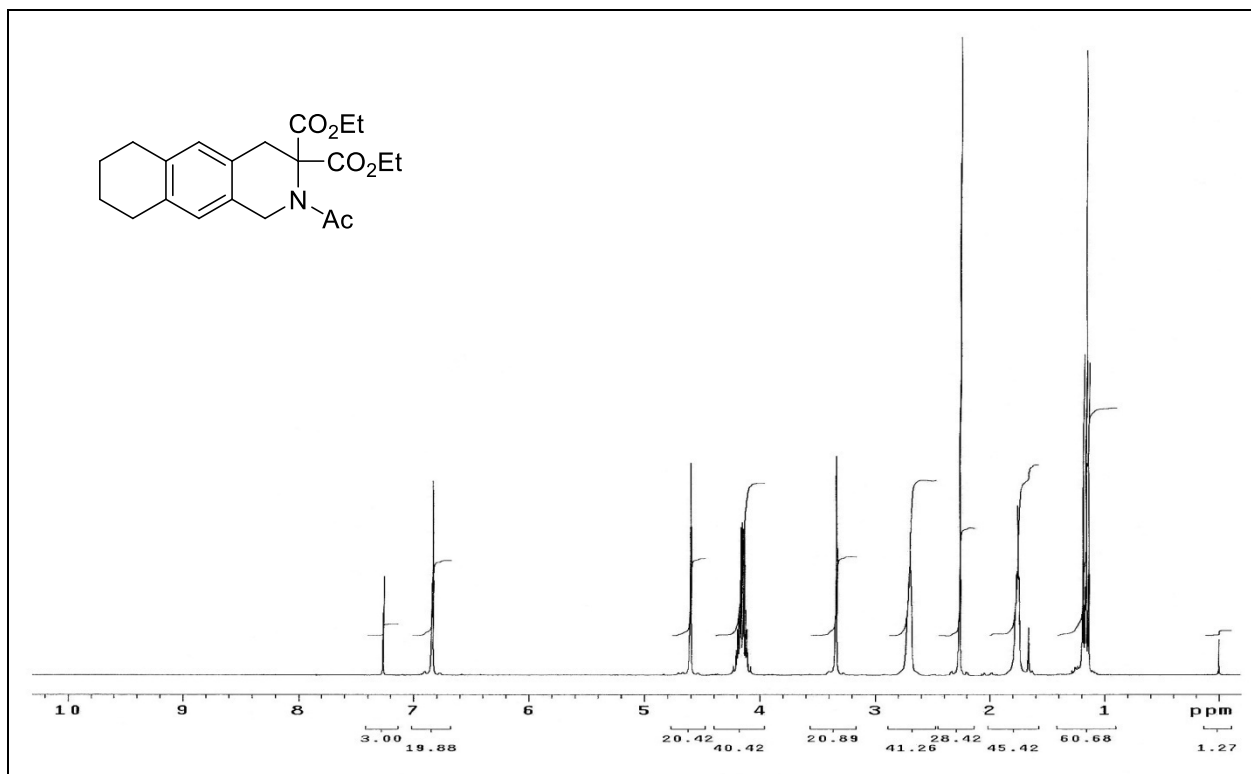


Figure 9: <sup>1</sup>H NMR spectrum of compound 6e

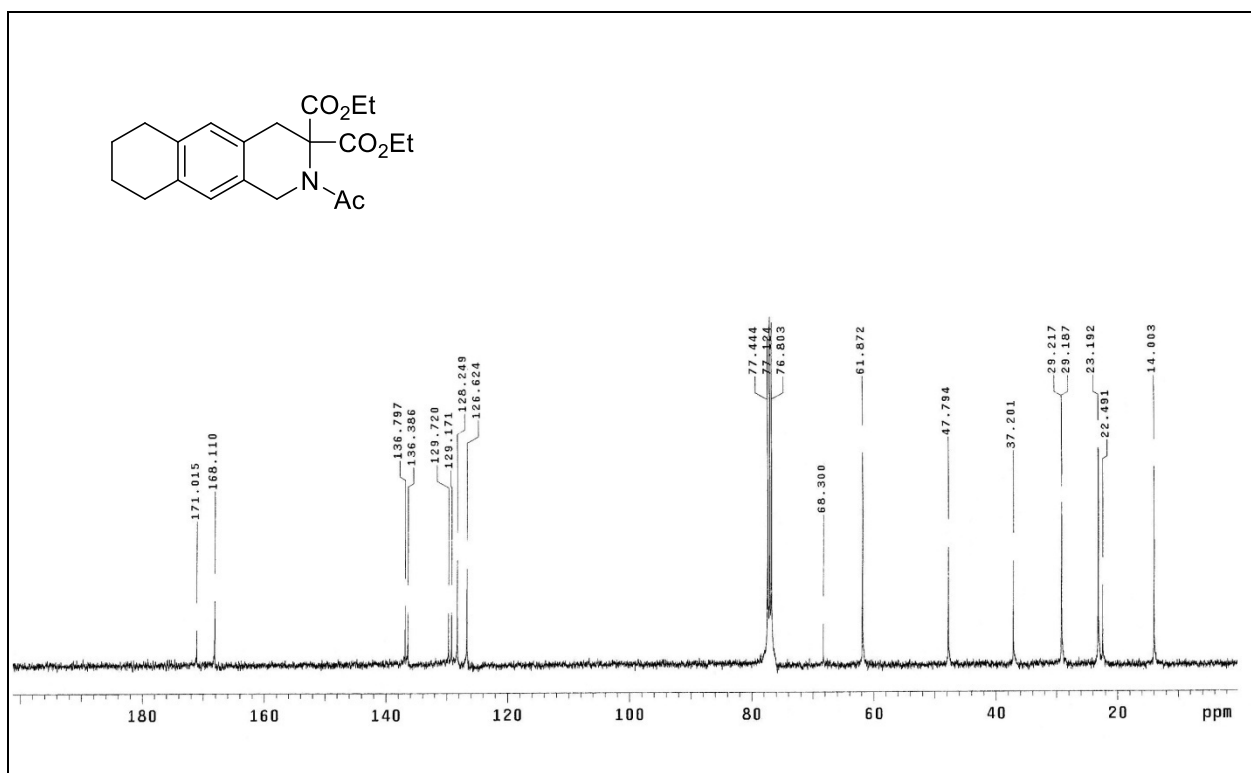


Figure 10: <sup>13</sup>C NMR spectrum of compound 6e

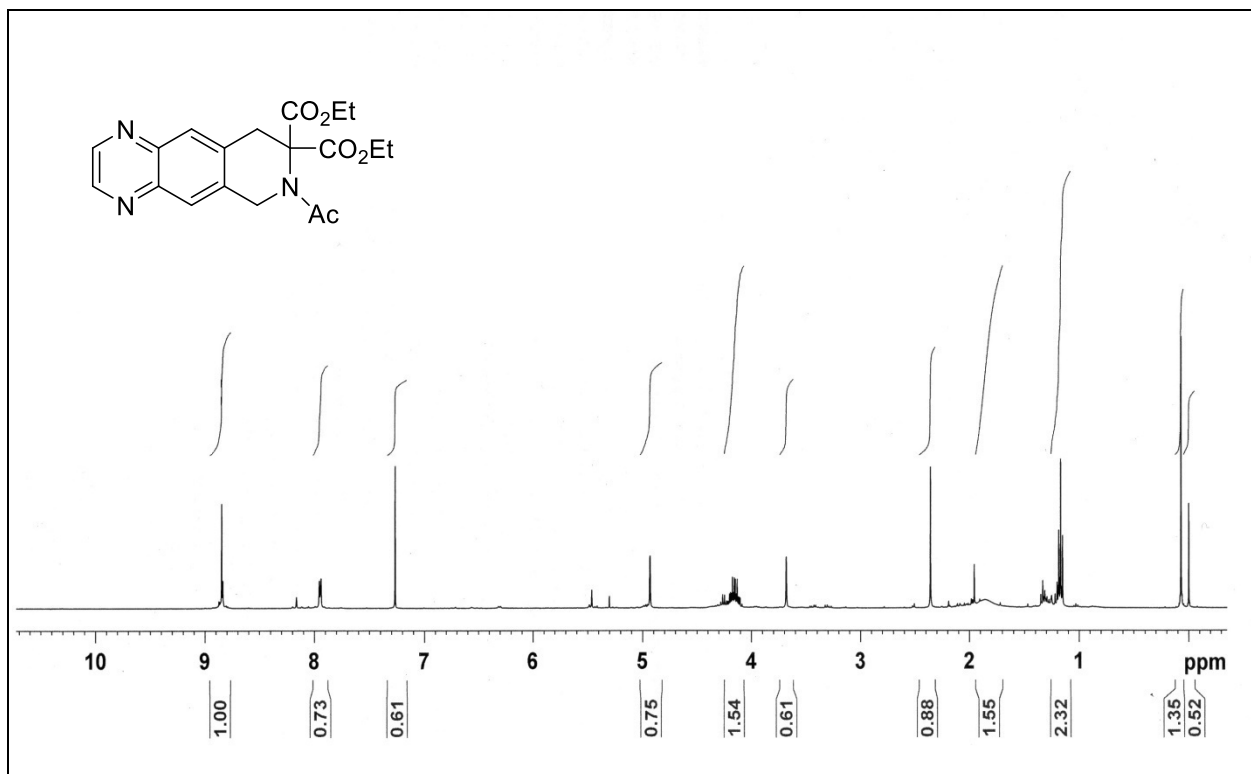


Figure 11:  $^1\text{H NMR}$  spectrum of compound 6f

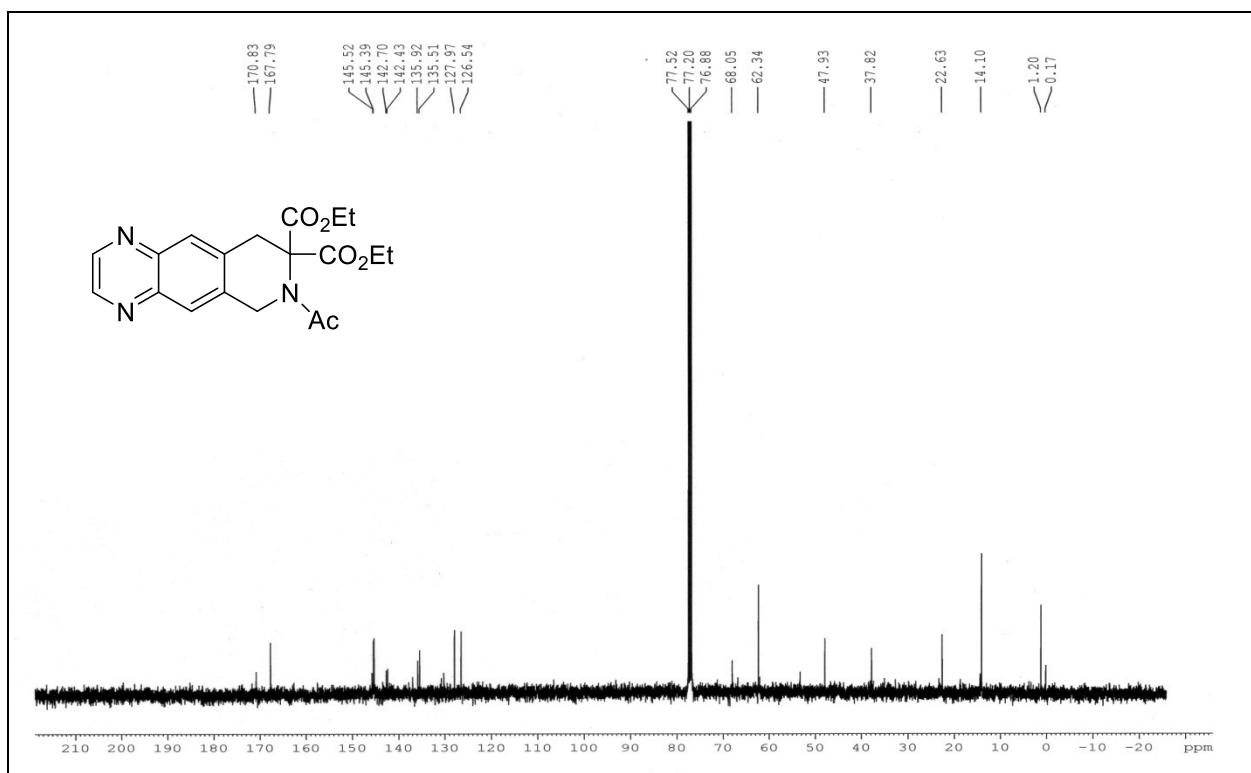
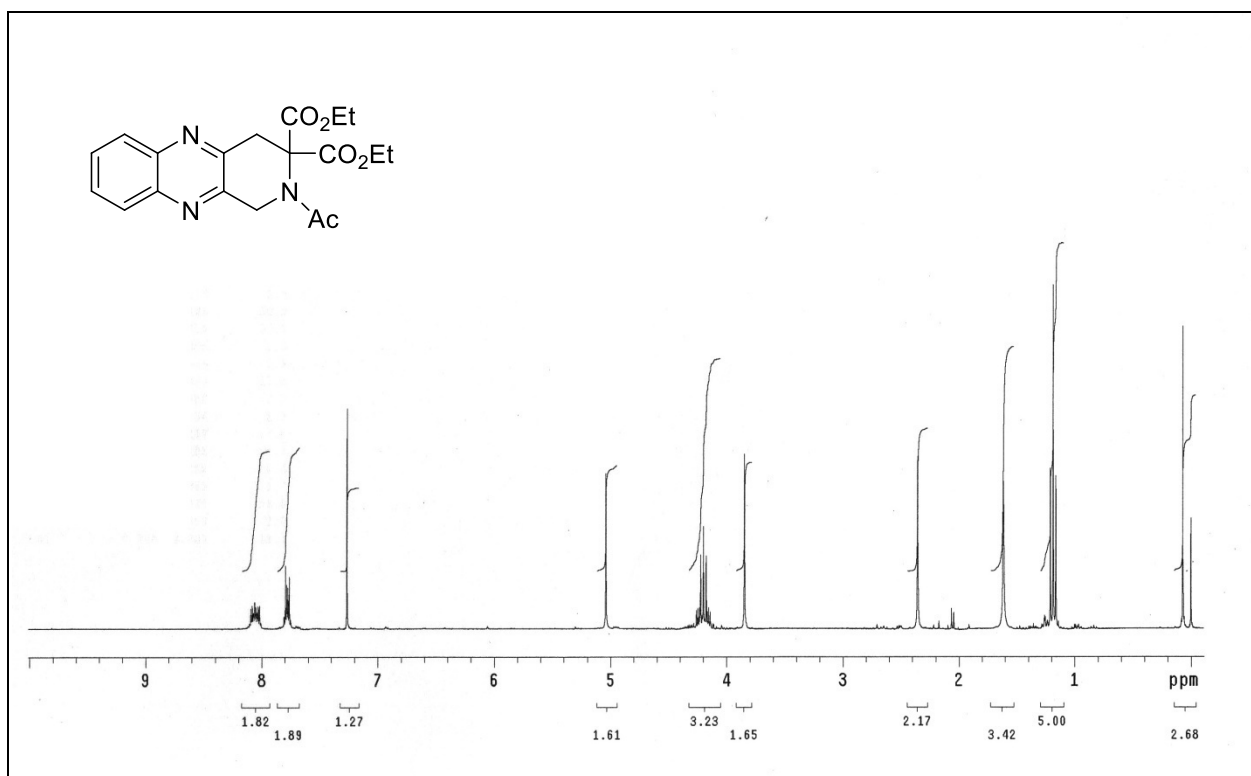
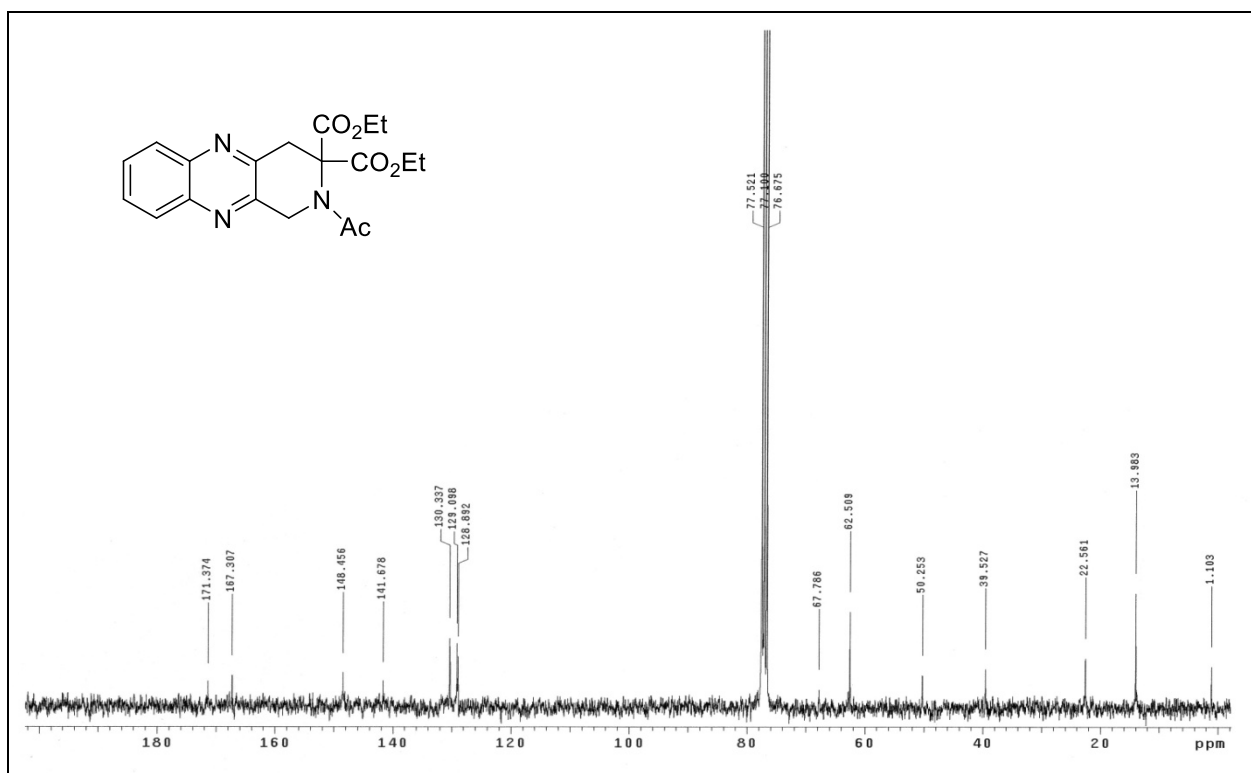


Figure 12:  $^{13}\text{C NMR}$  spectrum of compound 6f



**Figure 13:** <sup>1</sup>H NMR spectrum of compound **6g**



**Figure 14:** <sup>13</sup>C NMR spectrum of compound **6g**



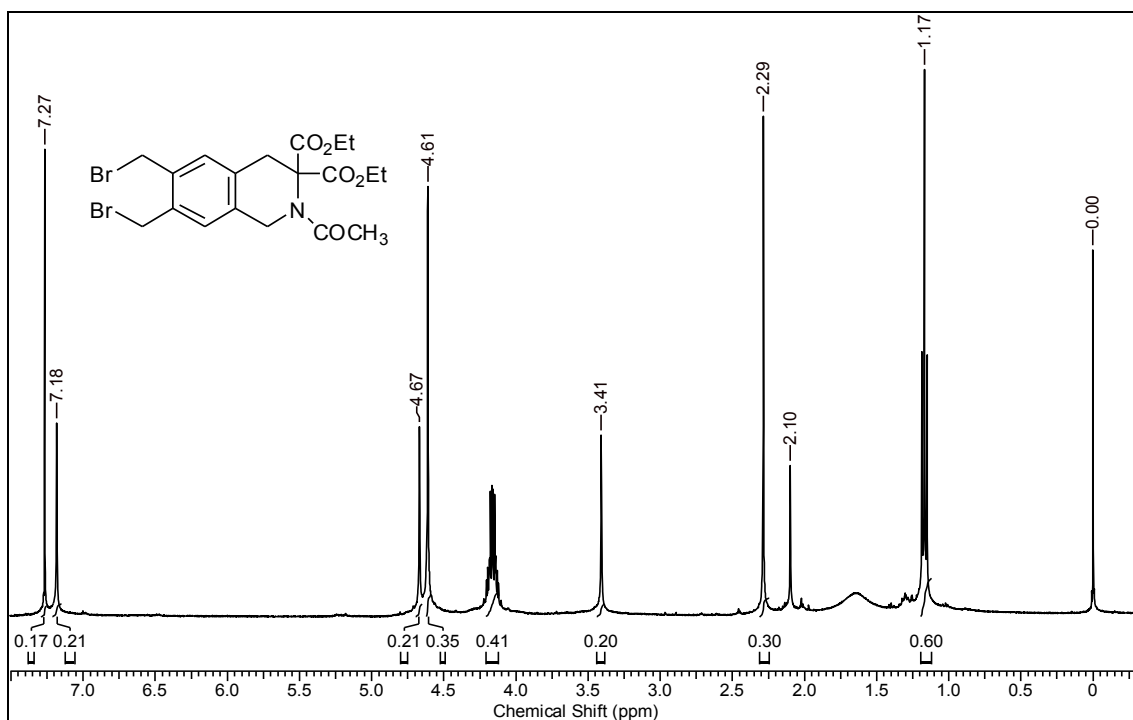


Figure 15:  $^1\text{H}$  NMR spectrum of compound 6h

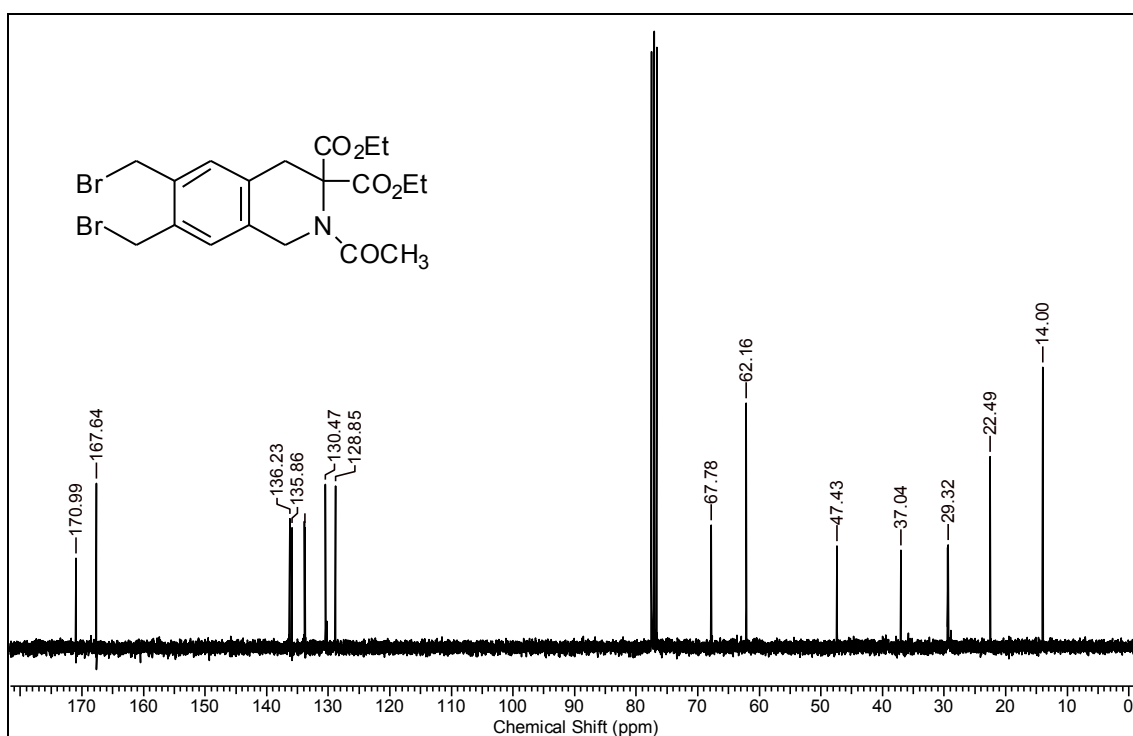
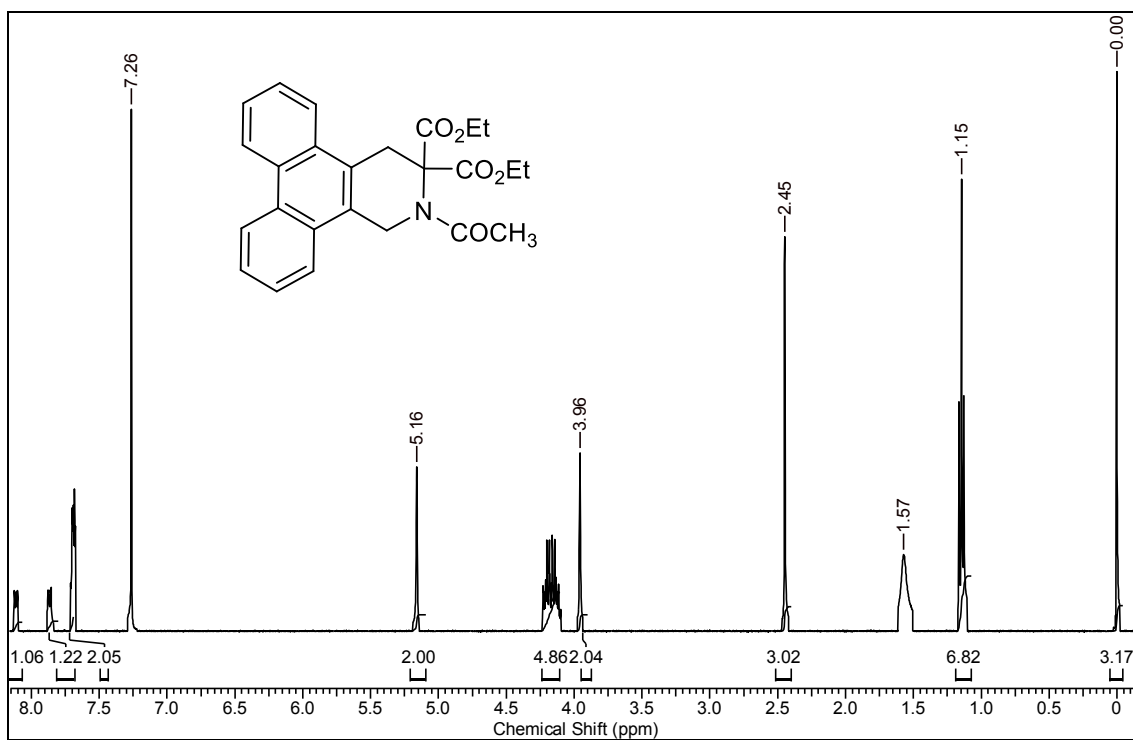
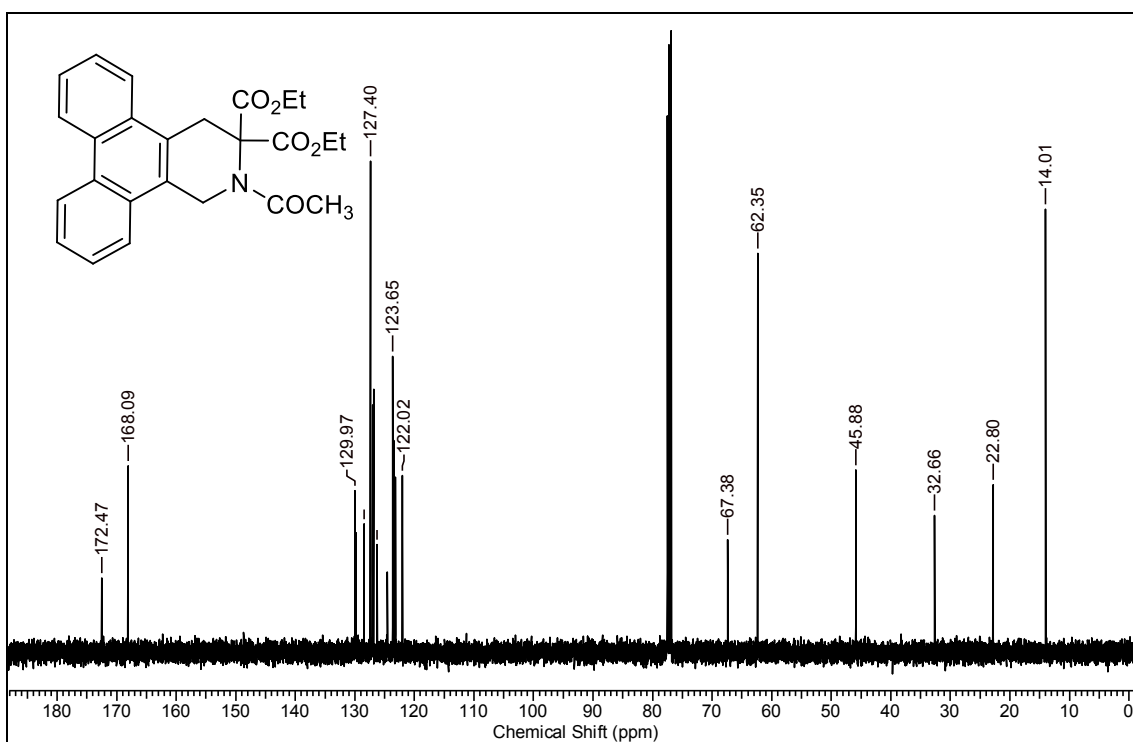


Figure 16:  $^{13}\text{C}$  NMR spectrum of compound 6h



**Figure 17:**  $^1\text{H}$  NMR spectrum of compound **6i**



**Figure 18:**  $^{13}\text{C}$  NMR spectrum of compound **6i**

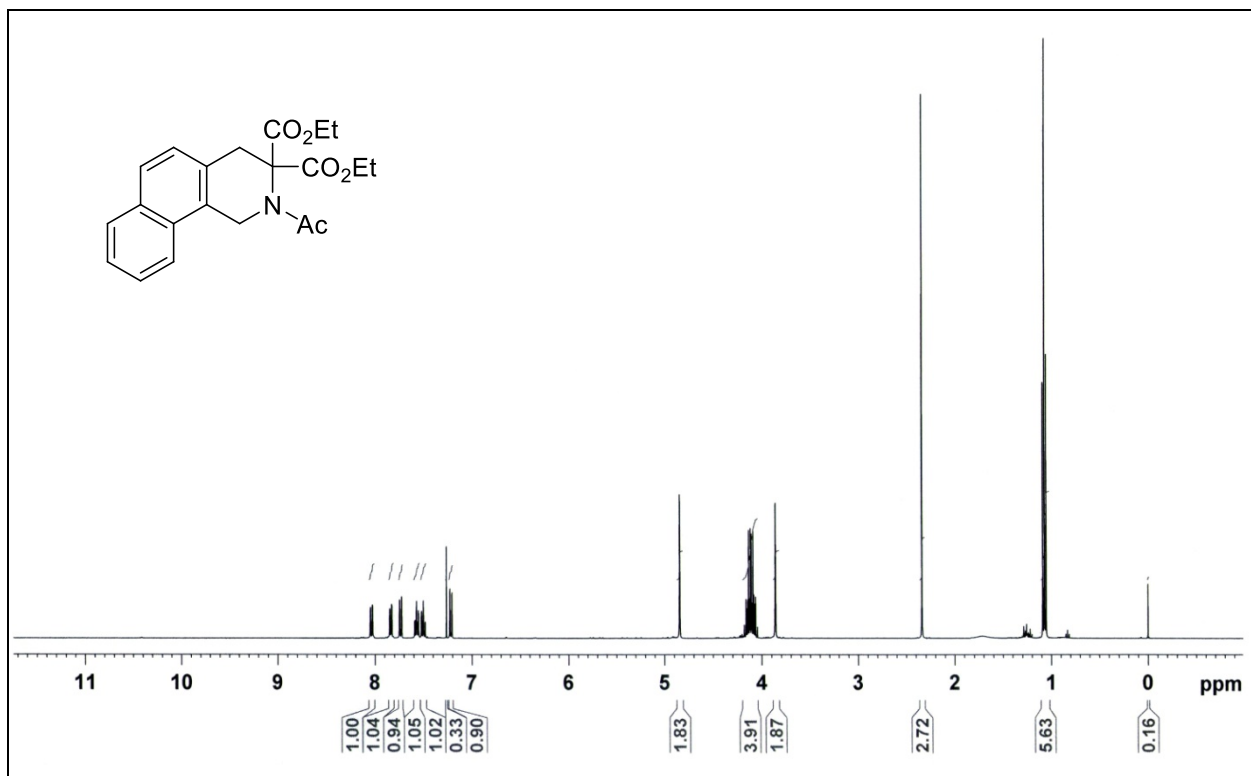


Figure 19:  $^1\text{H}$  NMR spectrum of compound 6j

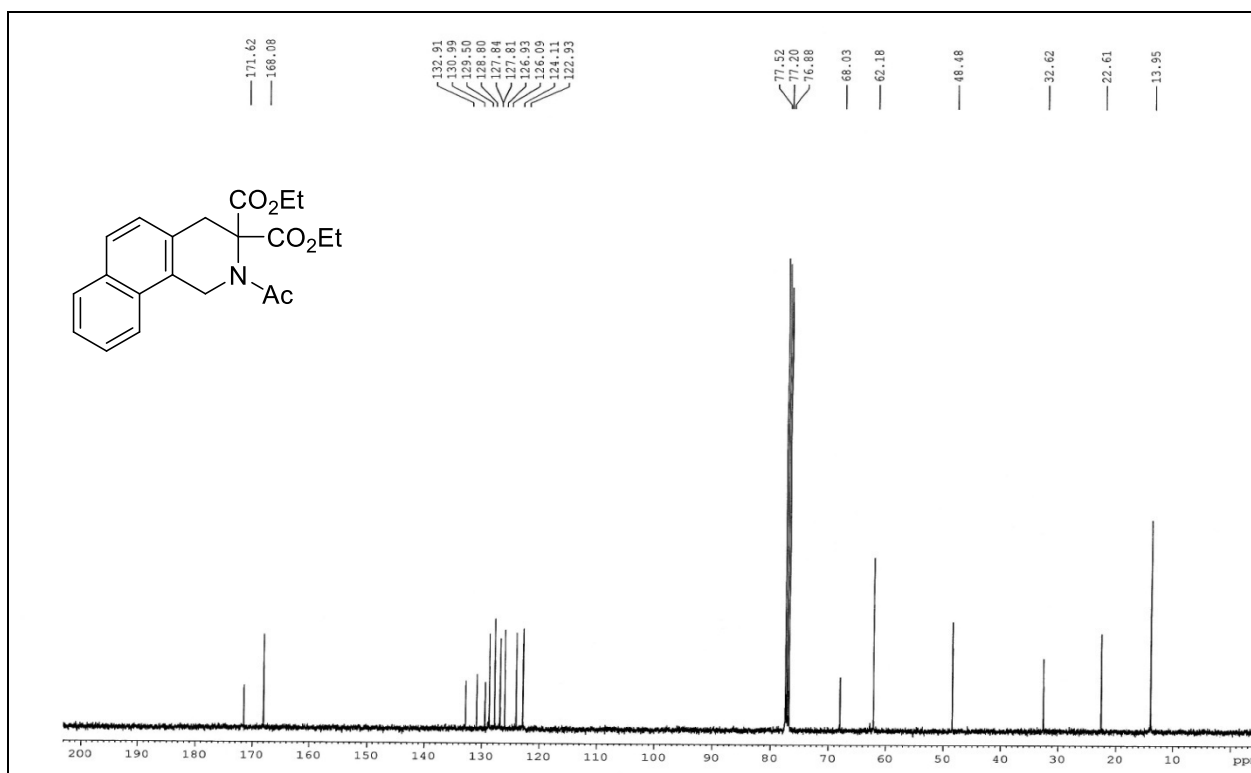
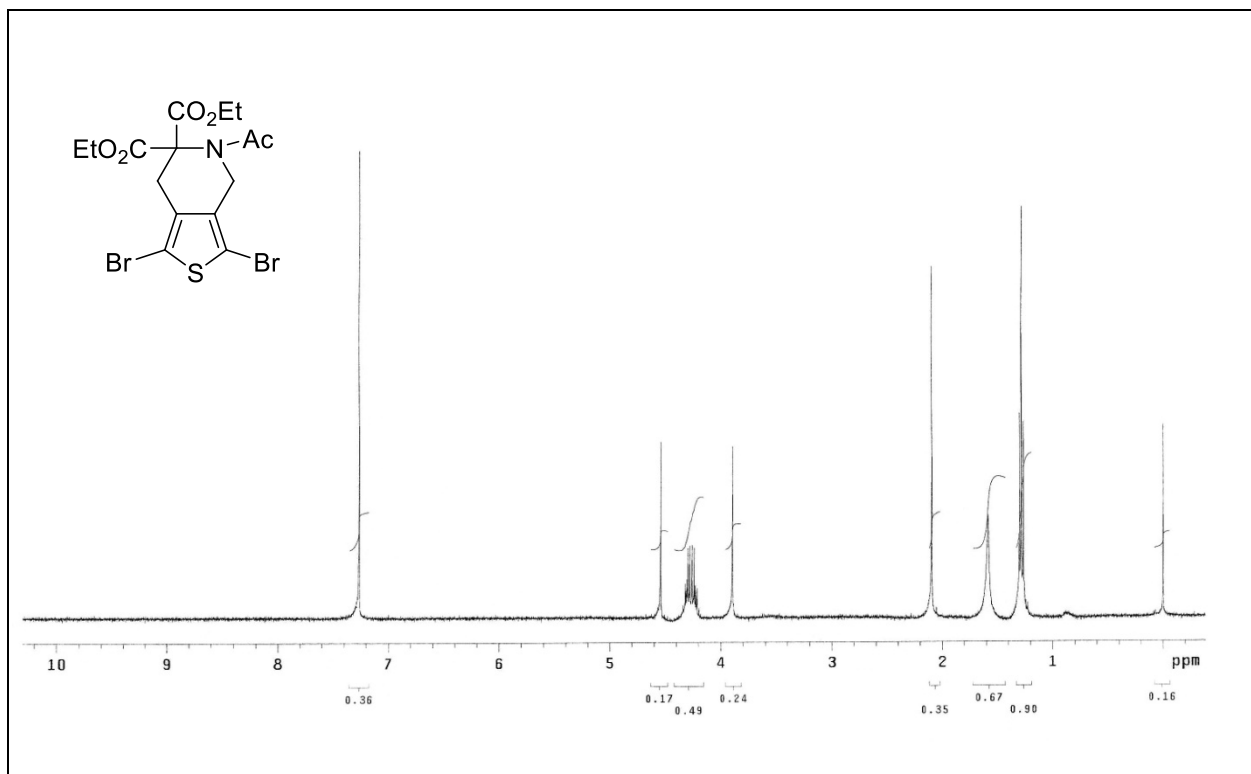
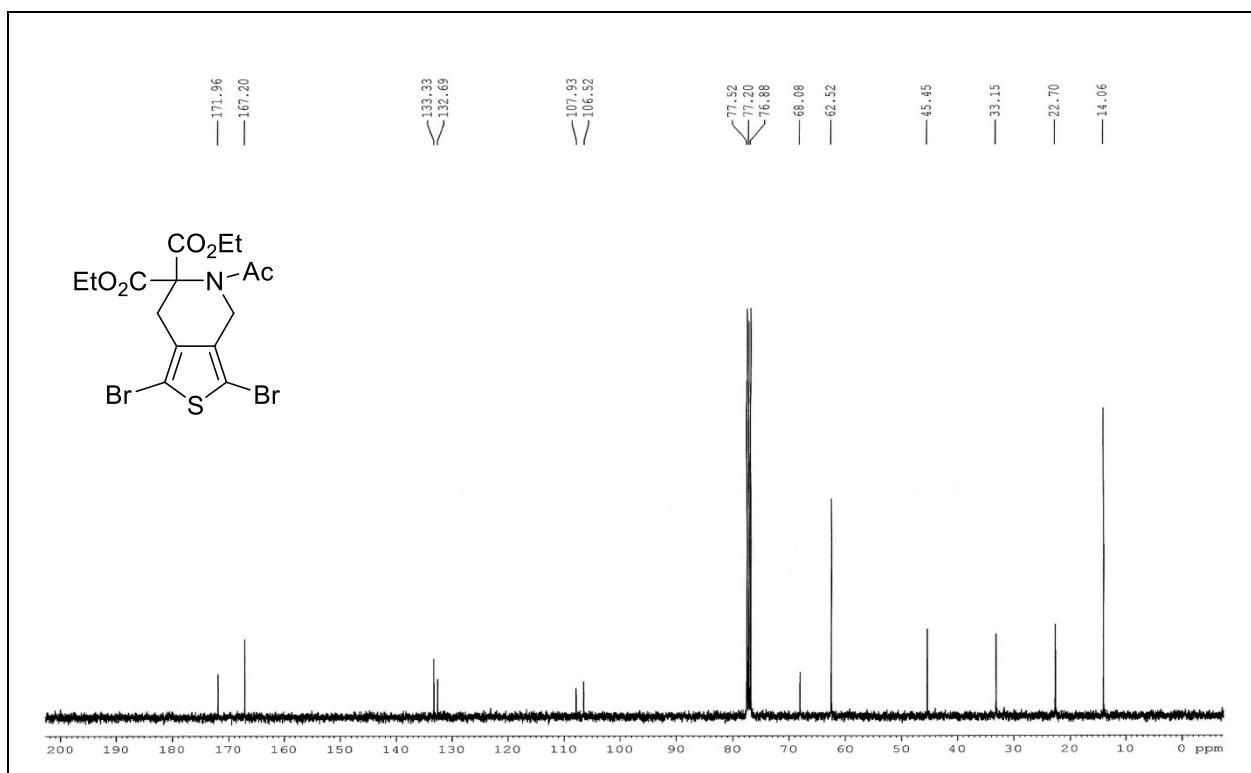


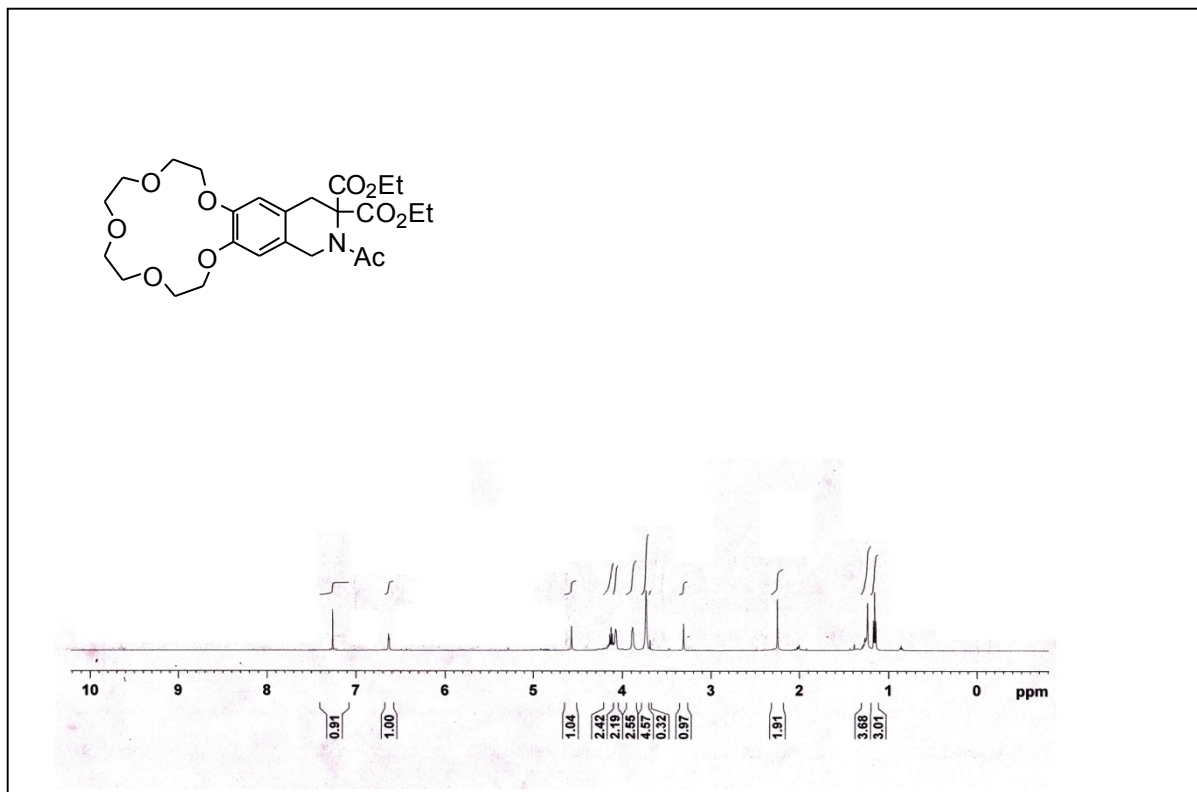
Figure 20:  $^{13}\text{C}$  NMR spectrum of compound 6j



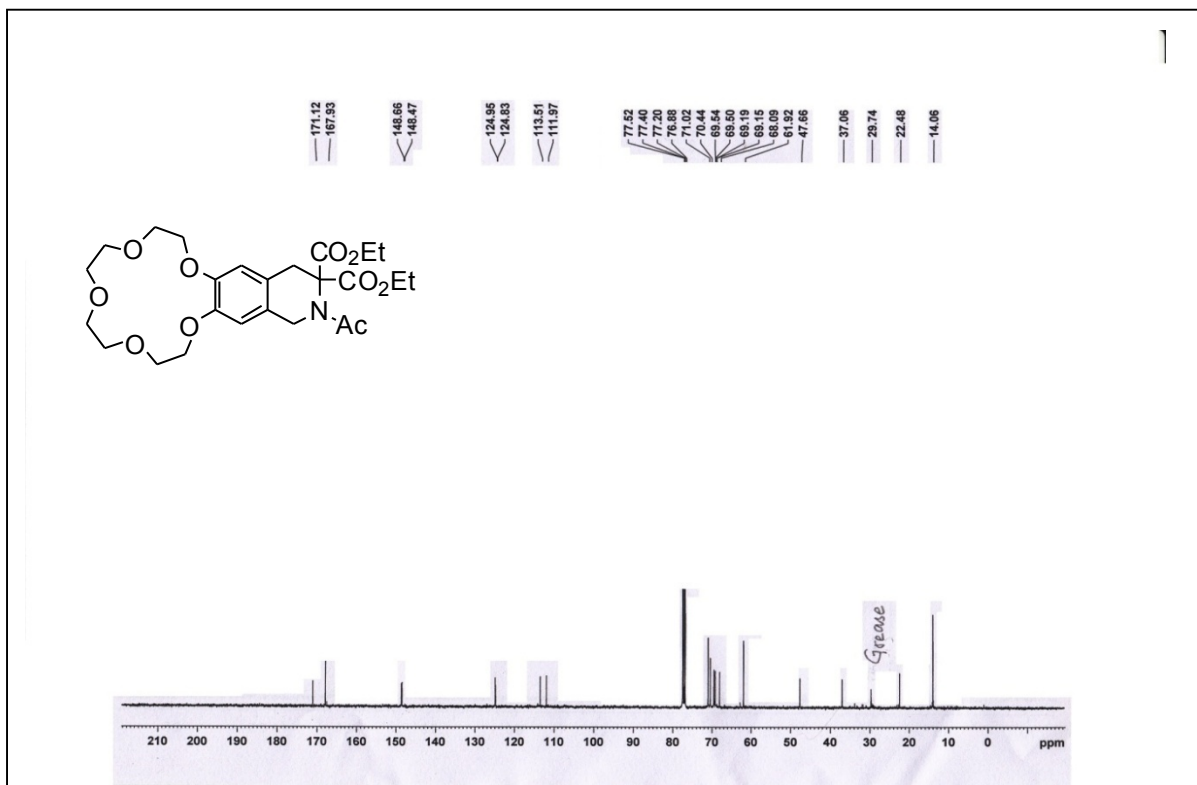
**Figure 21:** <sup>1</sup>H NMR spectrum of compound **6k**



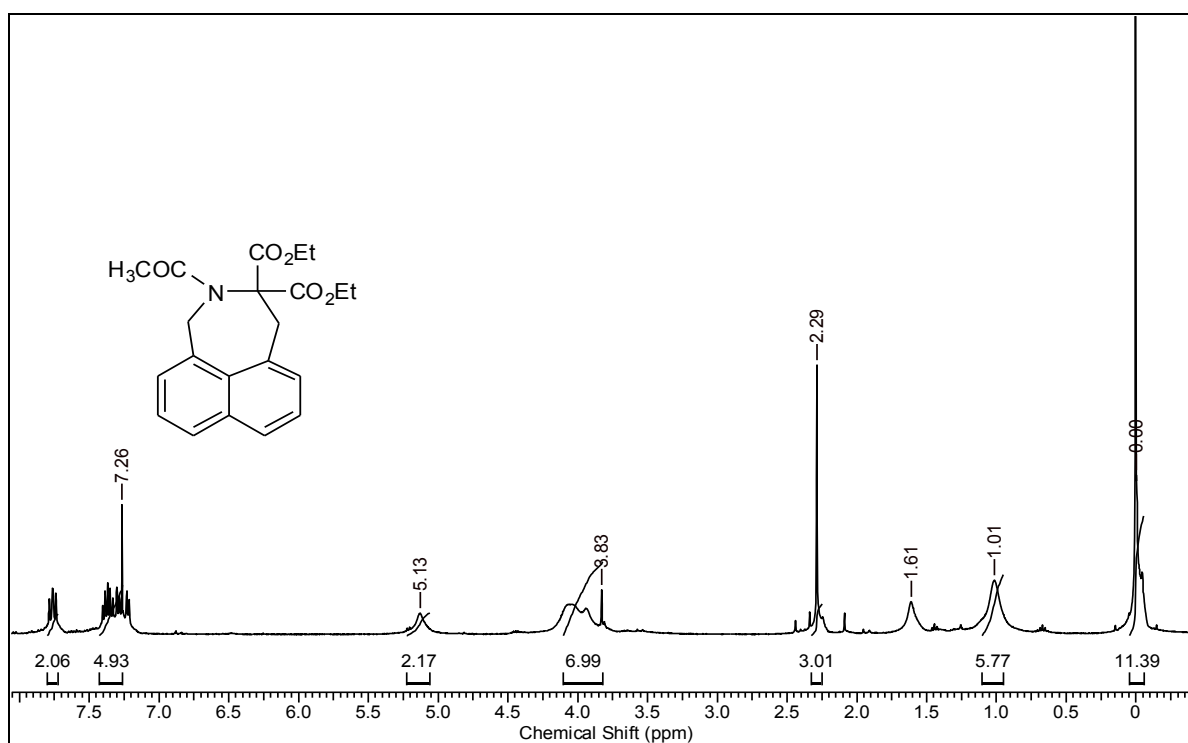
**Figure 22:** <sup>13</sup>C NMR spectrum of compound **6k**



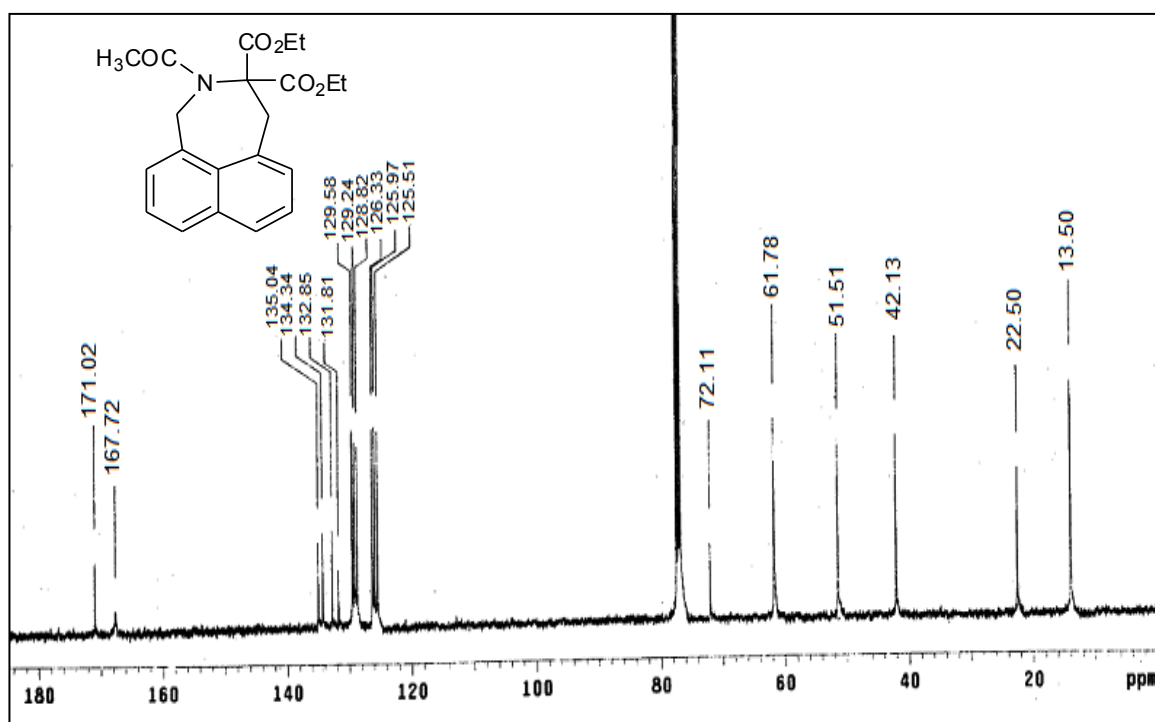
**Figure 23:** <sup>1</sup>H NMR spectrum of compound **6l**



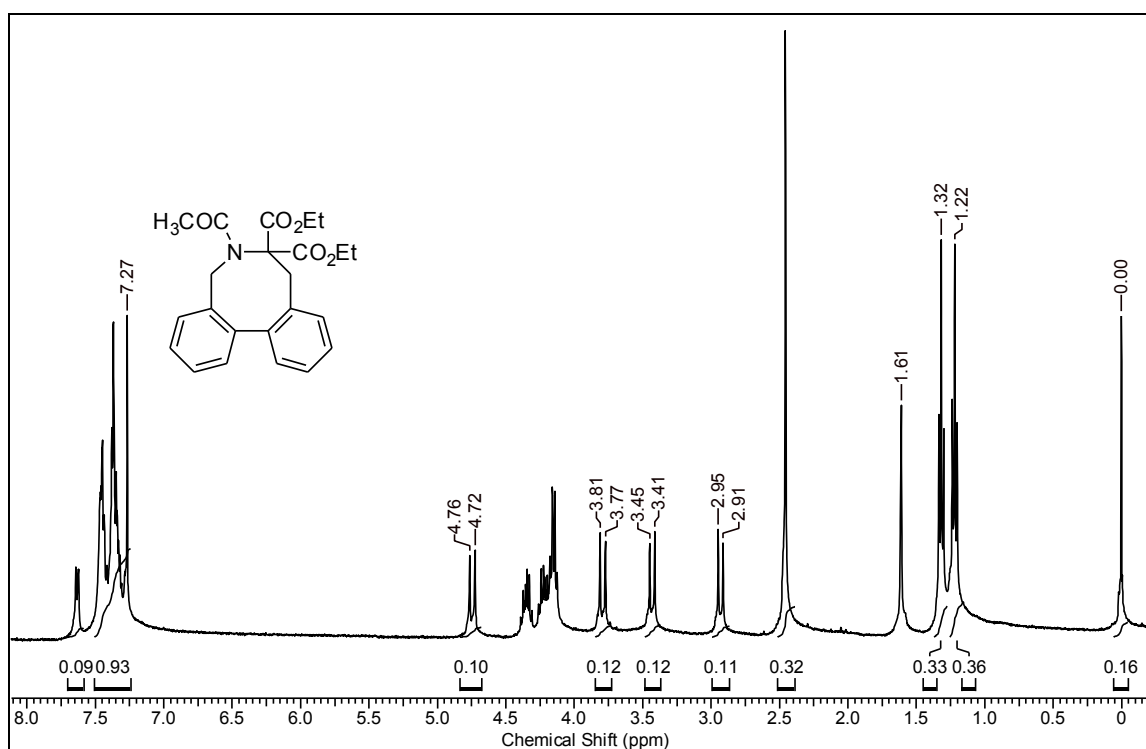
**Figure 24:** <sup>13</sup>C NMR spectrum of compound **6l**



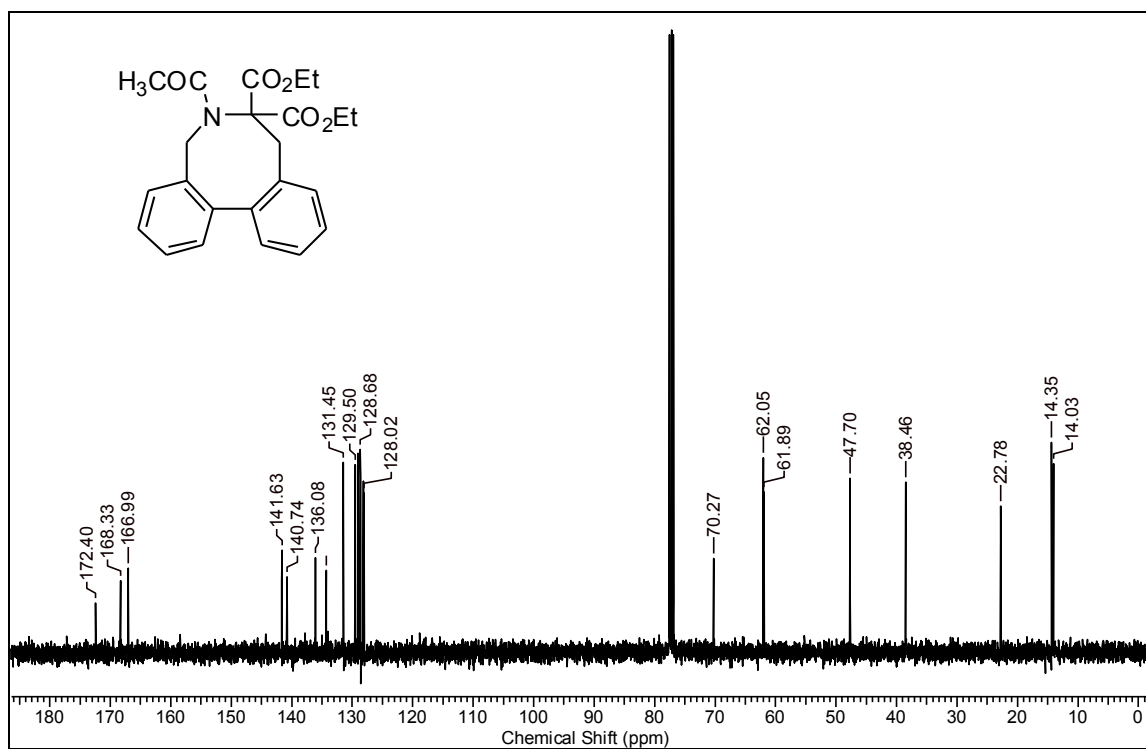
**Figure 25:** <sup>1</sup>H NMR spectrum of compound **6m**



**Figure 26:** <sup>13</sup>C NMR spectrum of compound **6m**



**Figure 27:** <sup>1</sup>H NMR spectrum of compound **6n**



**Figure 28:** <sup>13</sup>C NMR spectrum of compound **6n**

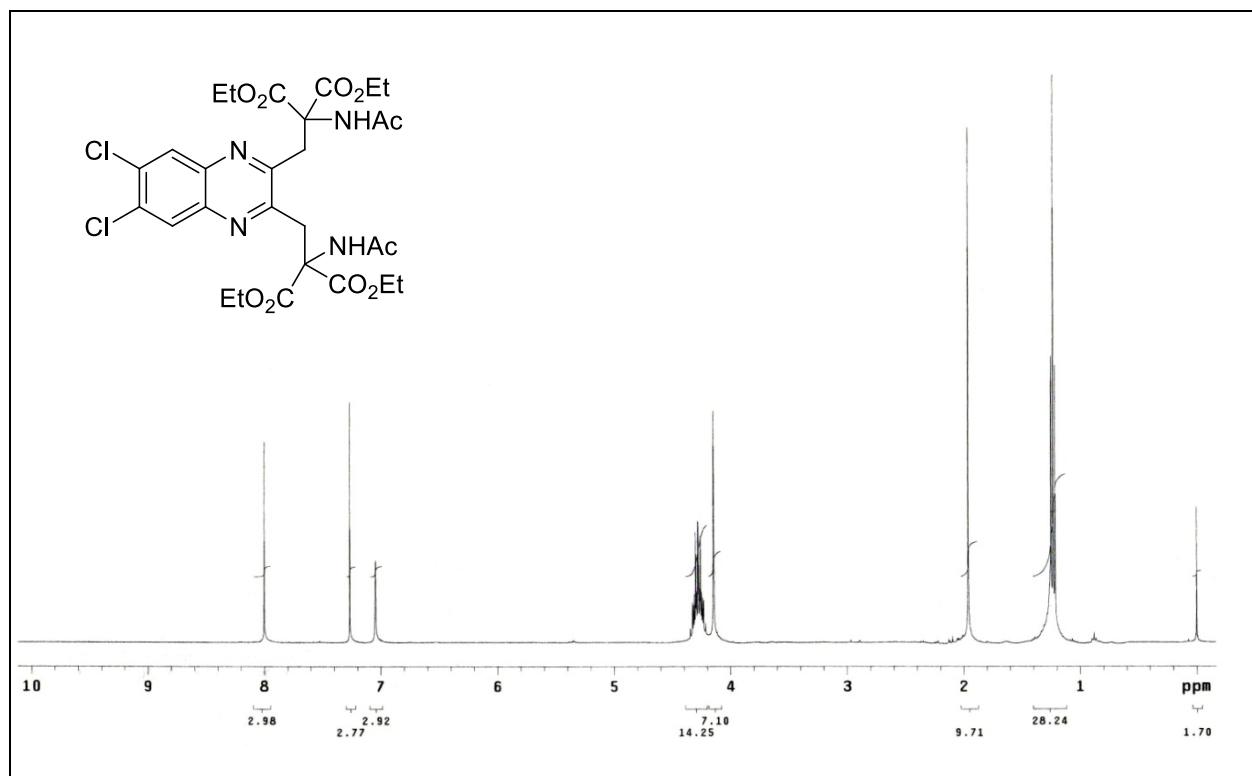


Figure 29:  $^1\text{H}$  NMR spectrum of compound 7a

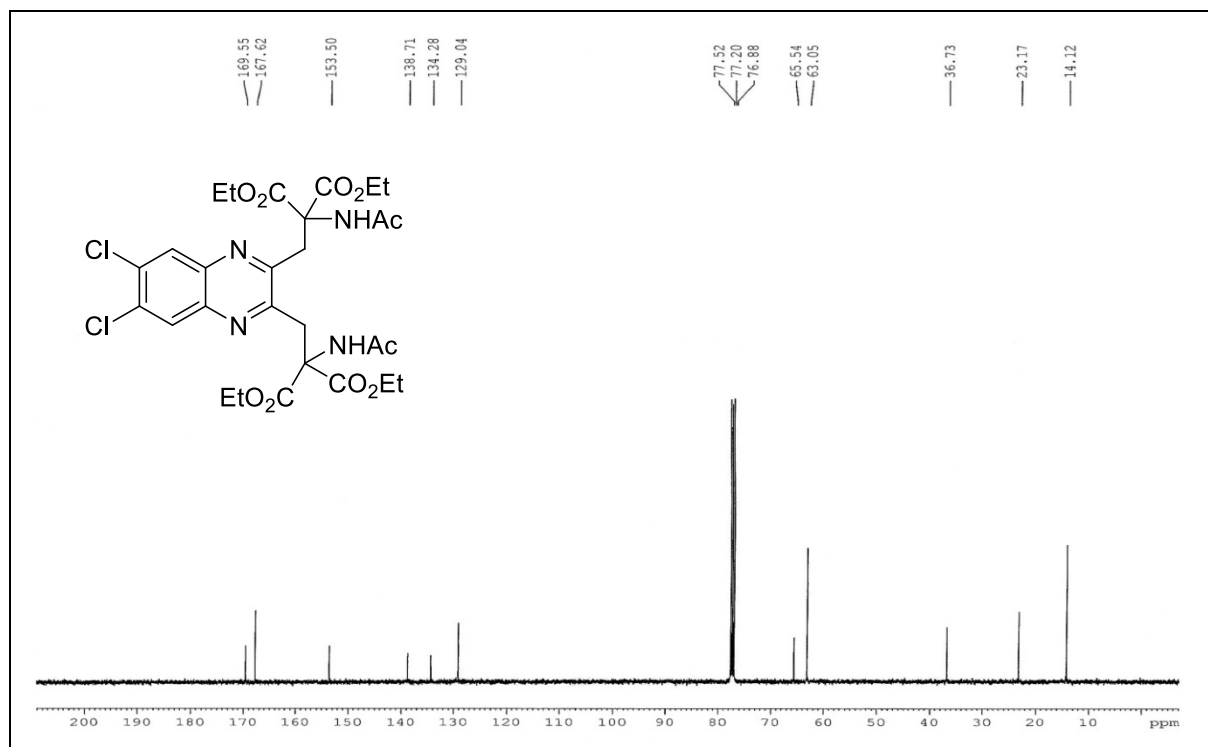
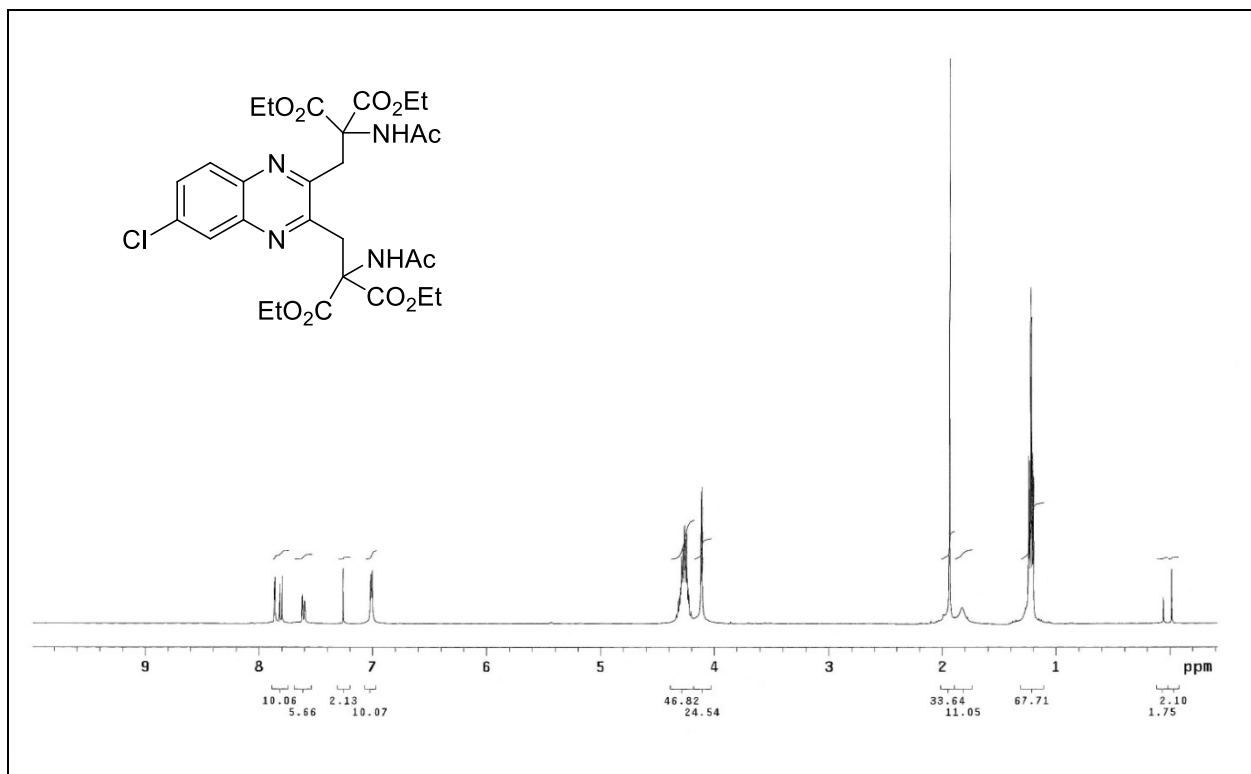
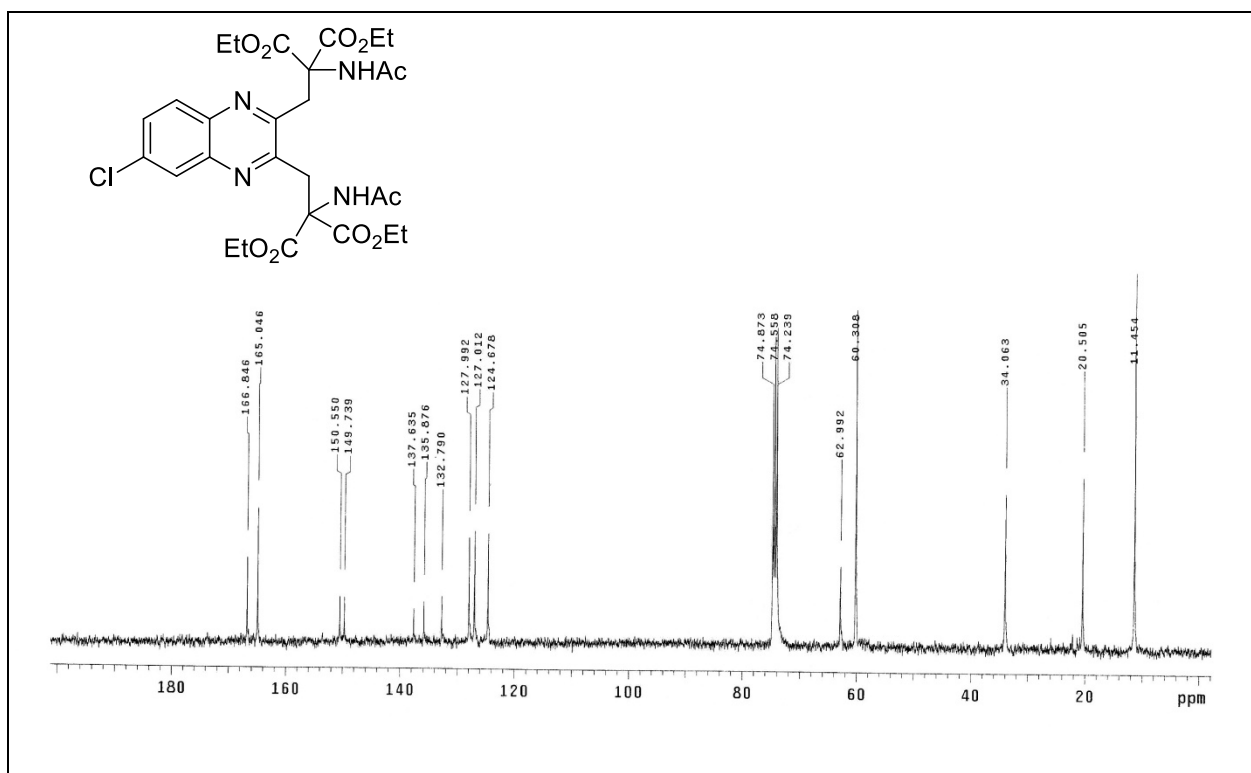


Figure 30:  $^{13}\text{C}$  NMR spectrum of compound 7a





**Figure 31:**  $^1\text{H}$  NMR spectrum of compound **7b**



**Figure 32:**  $^{13}\text{C}$  NMR spectrum of compound **7b**

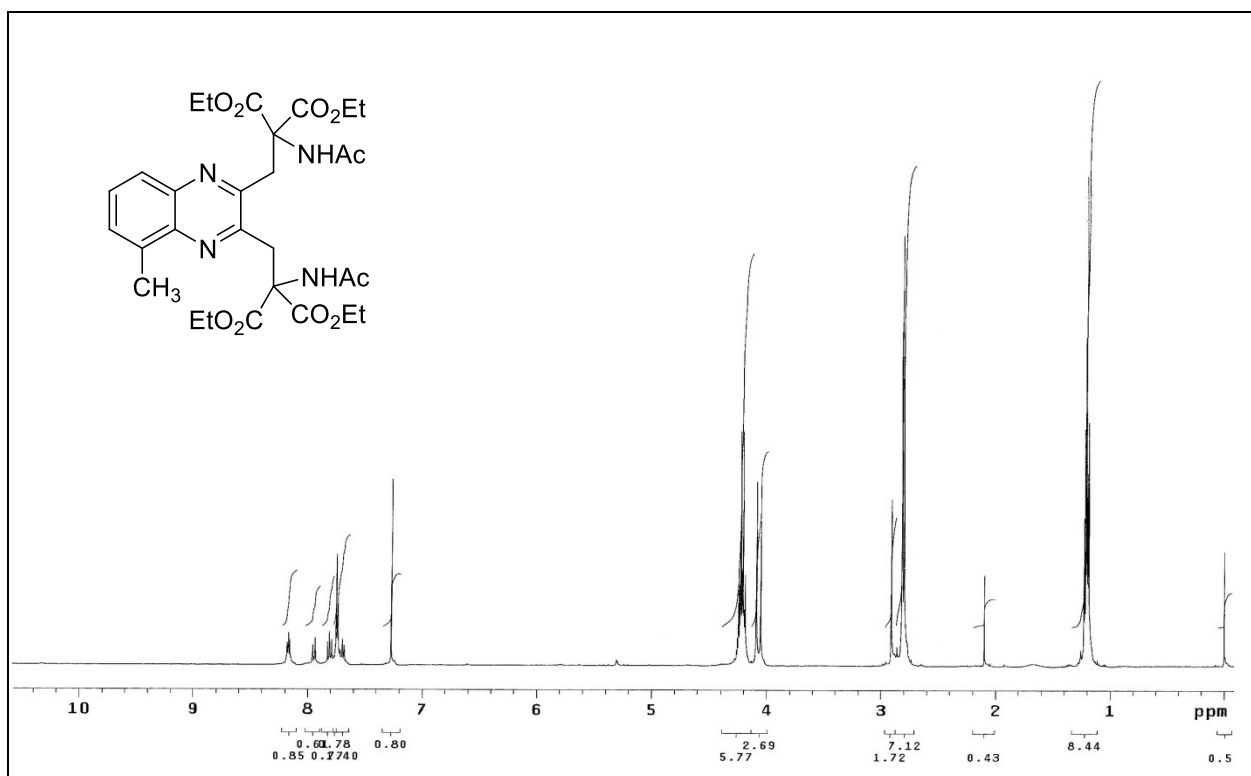


Figure 33: <sup>1</sup>H NMR spectrum of compound 7c

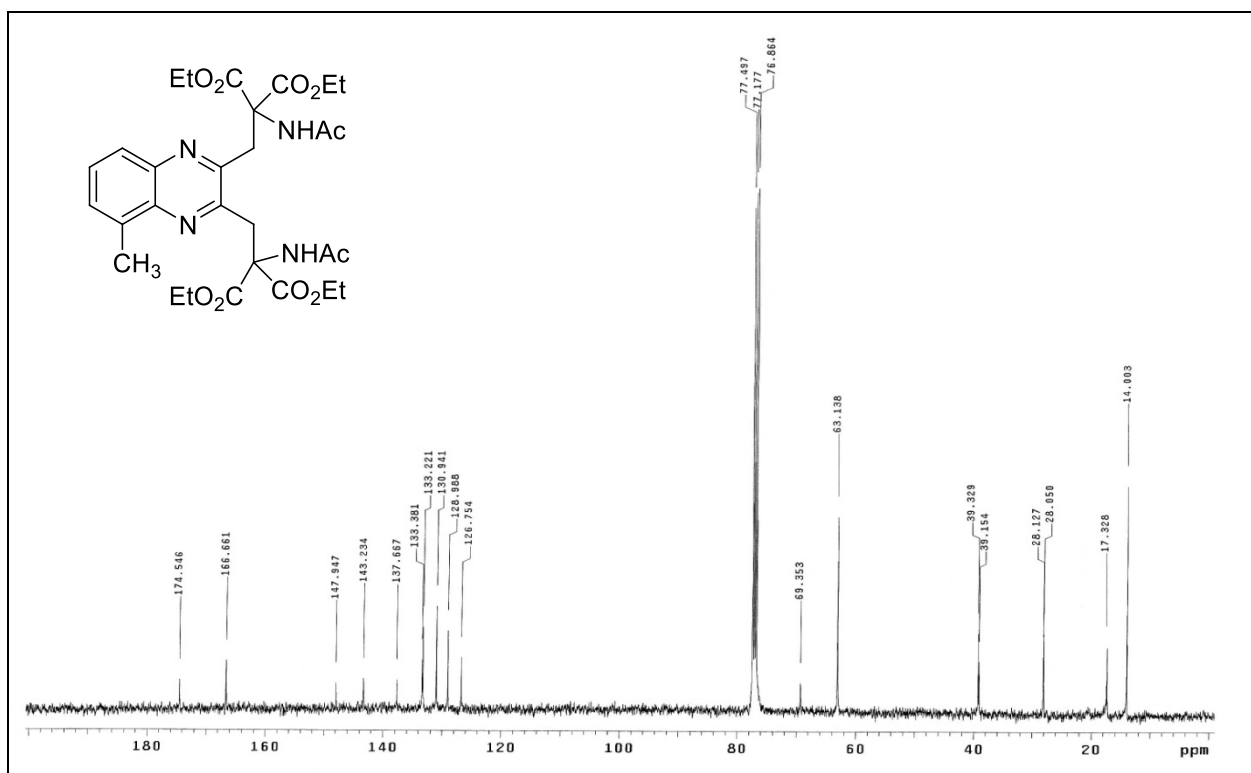


Figure 34: <sup>13</sup>C NMR spectrum of compound 7c

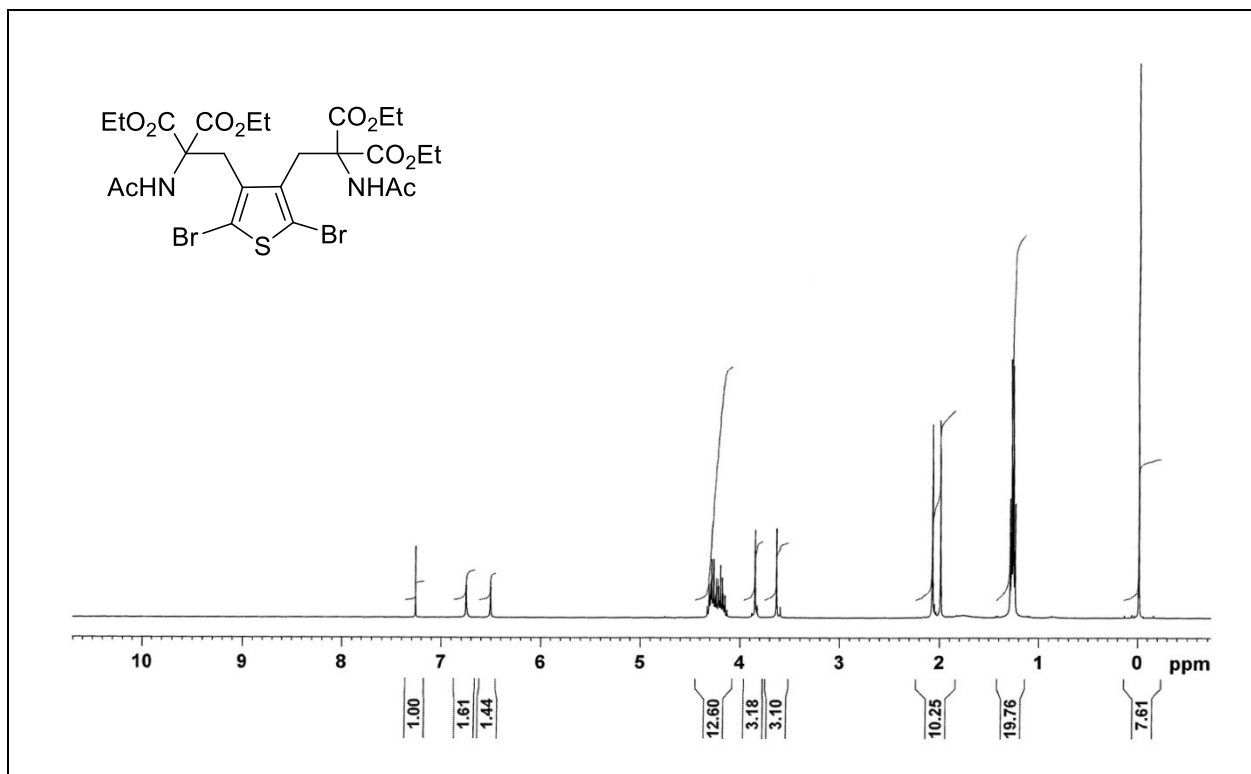


Figure 35:  $^1\text{H}$  NMR spectrum of compound 7d

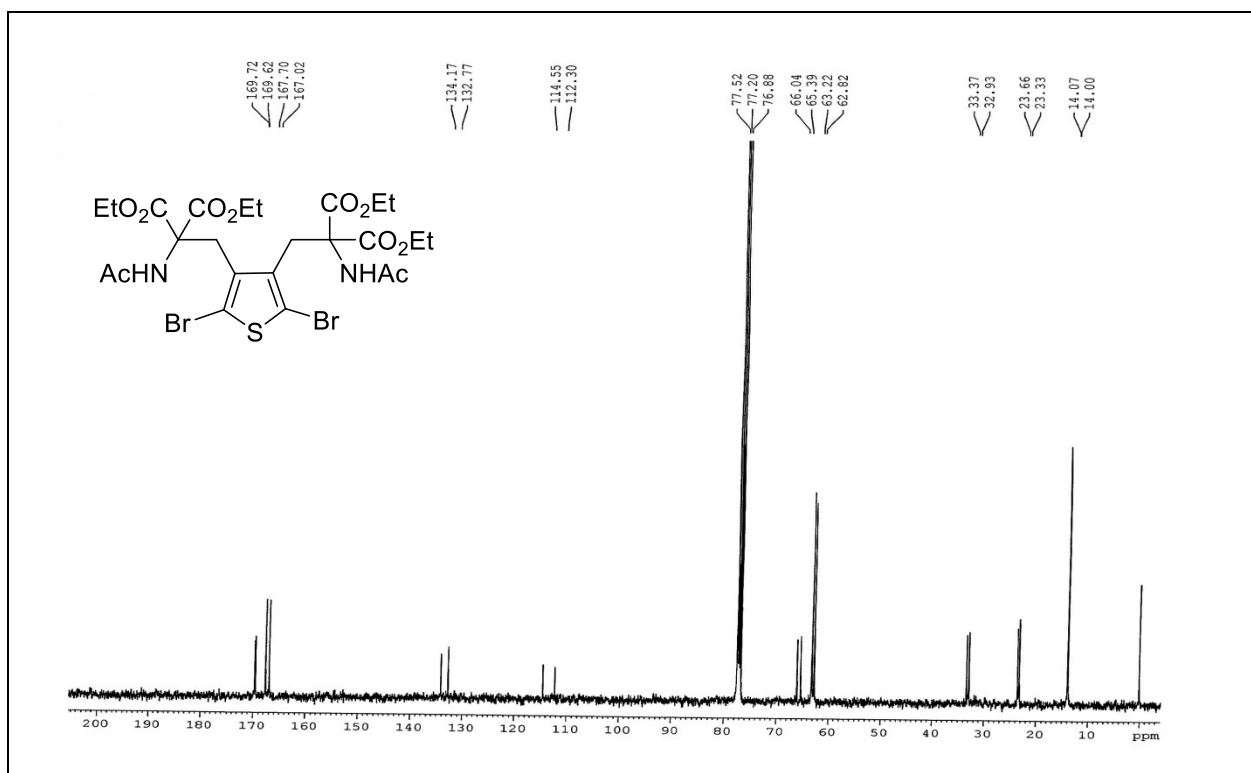


Figure 36:  $^{13}\text{C}$  NMR spectrum of compound 7d

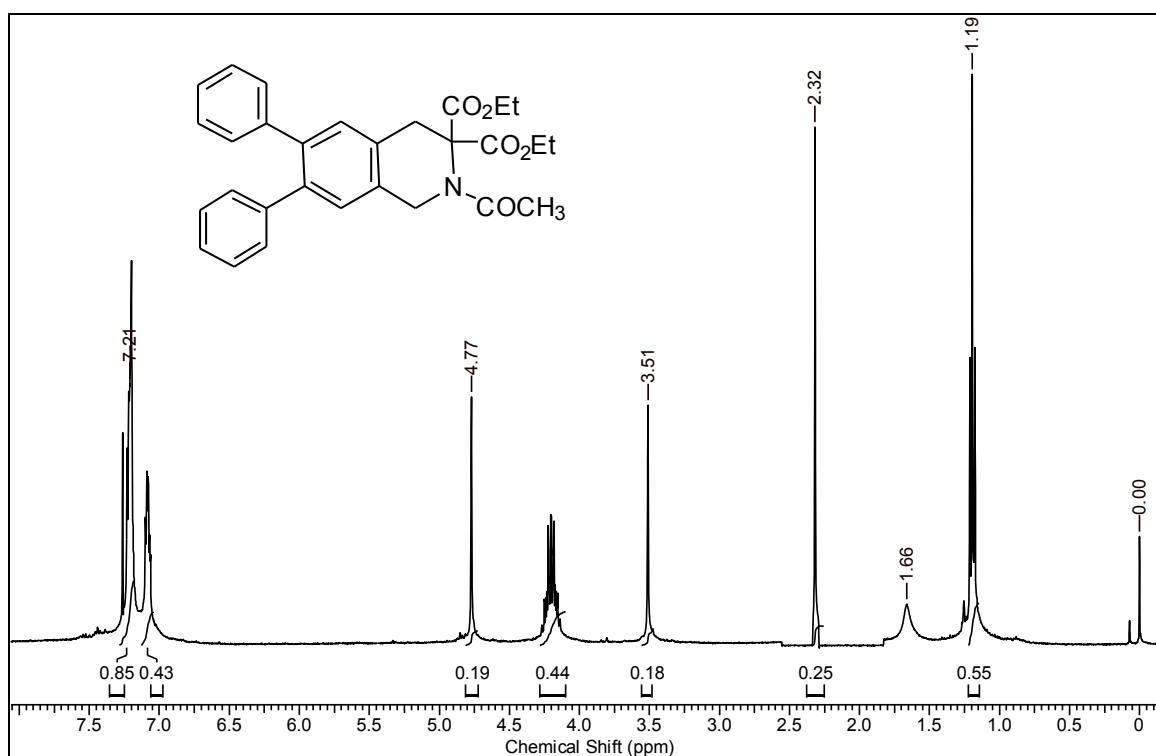


Figure 37:  $^1\text{H}$  NMR spectrum of compound 8a

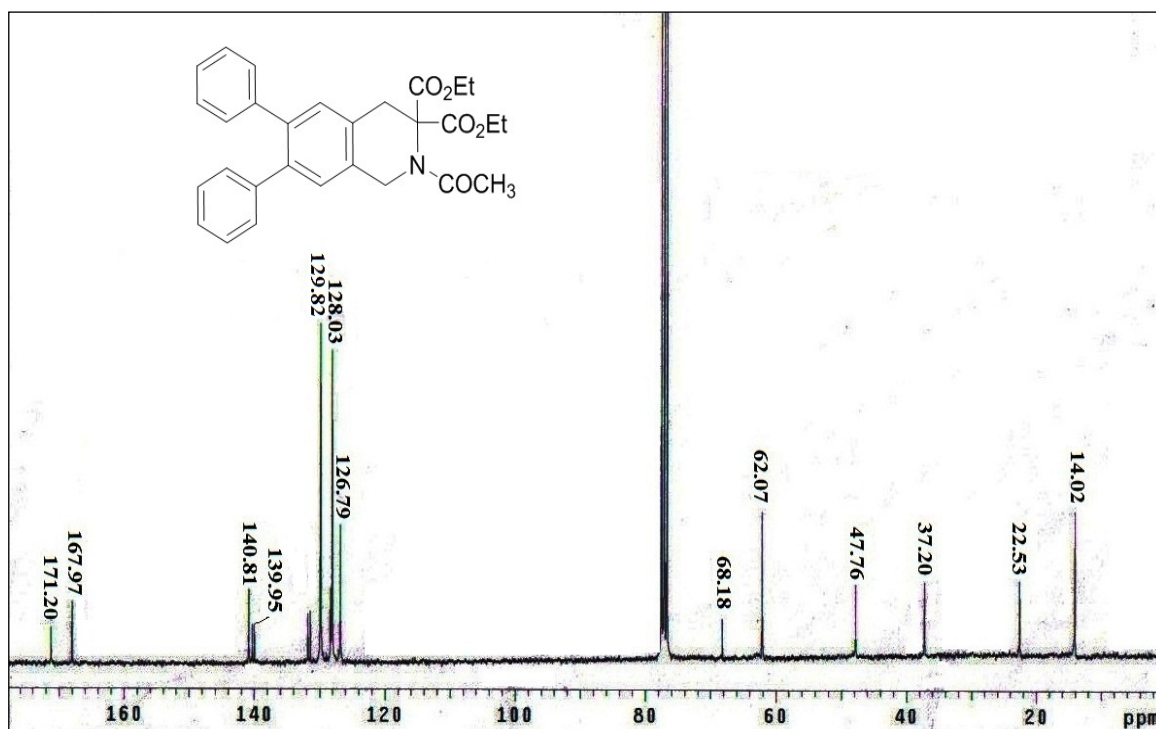
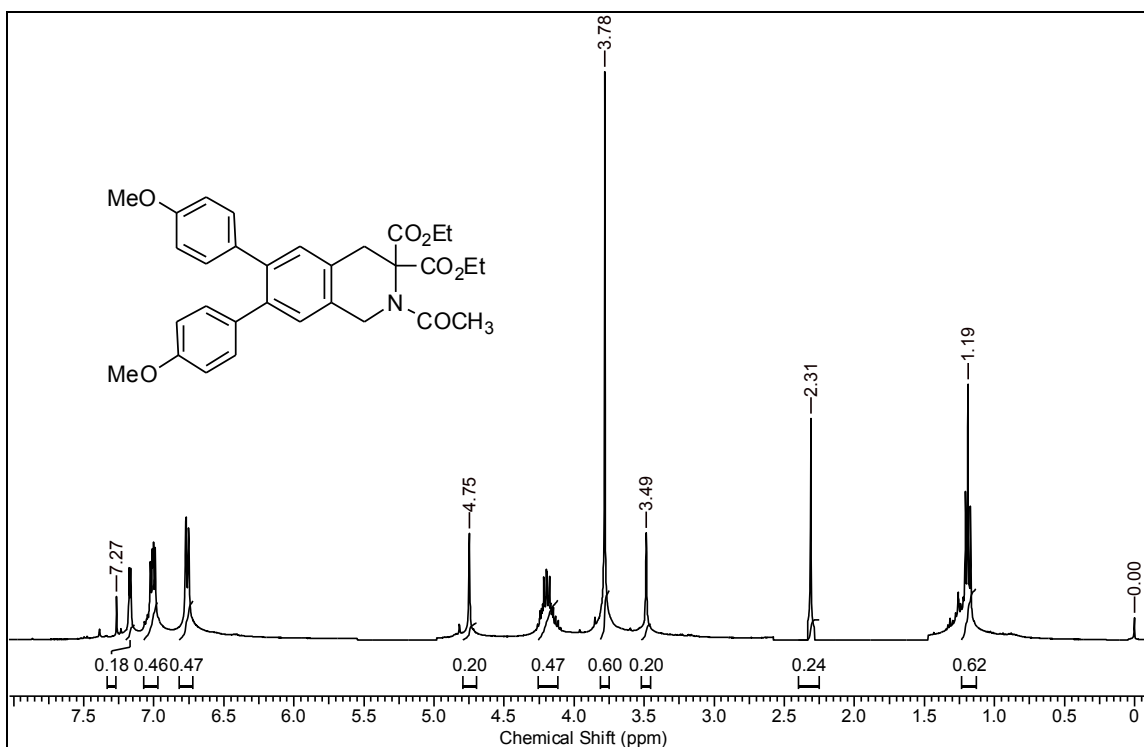
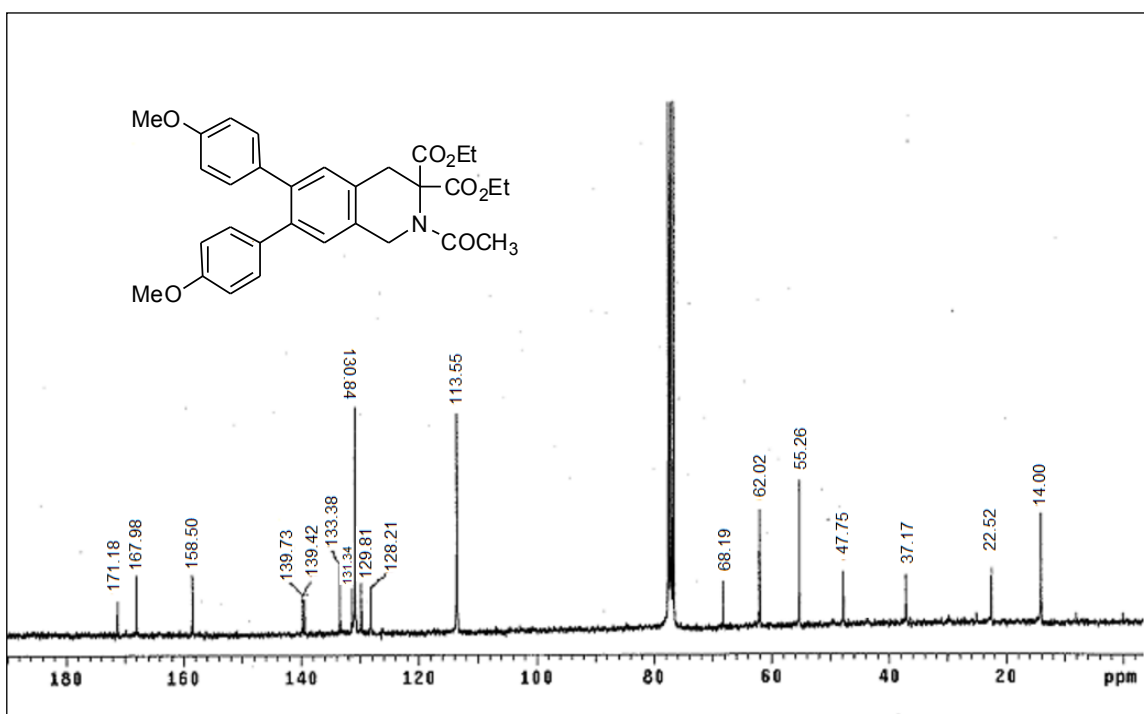


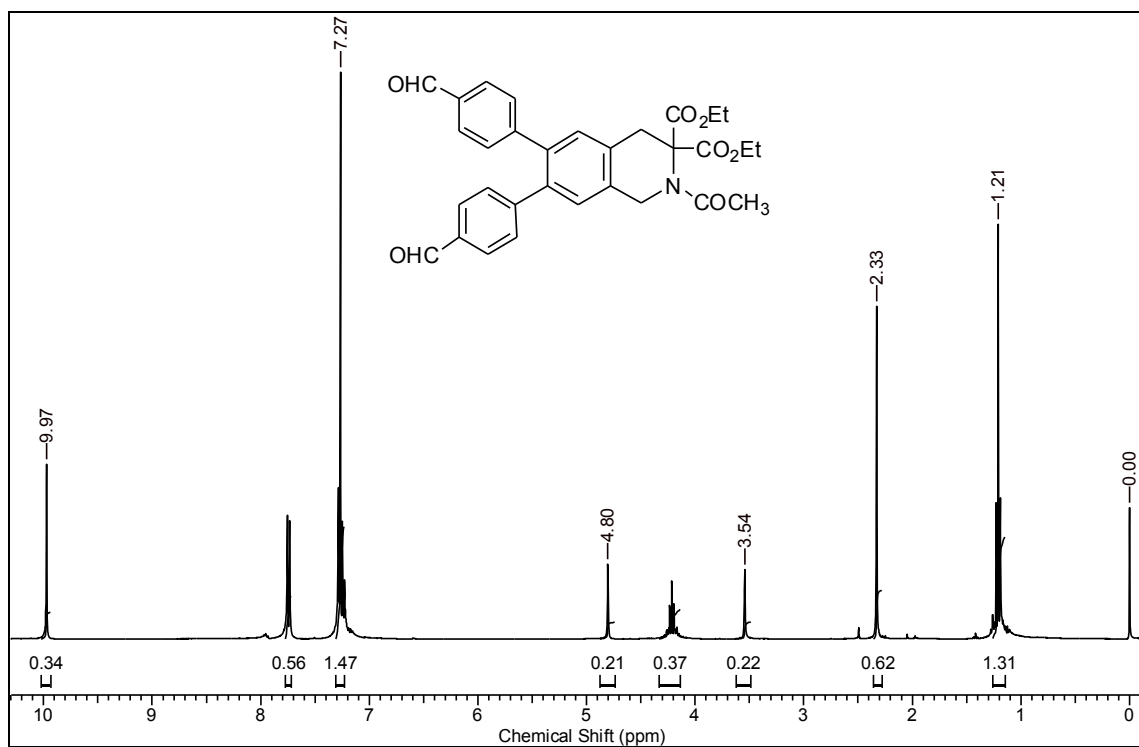
Figure 38:  $^{13}\text{C}$  NMR spectrum of compound 8a



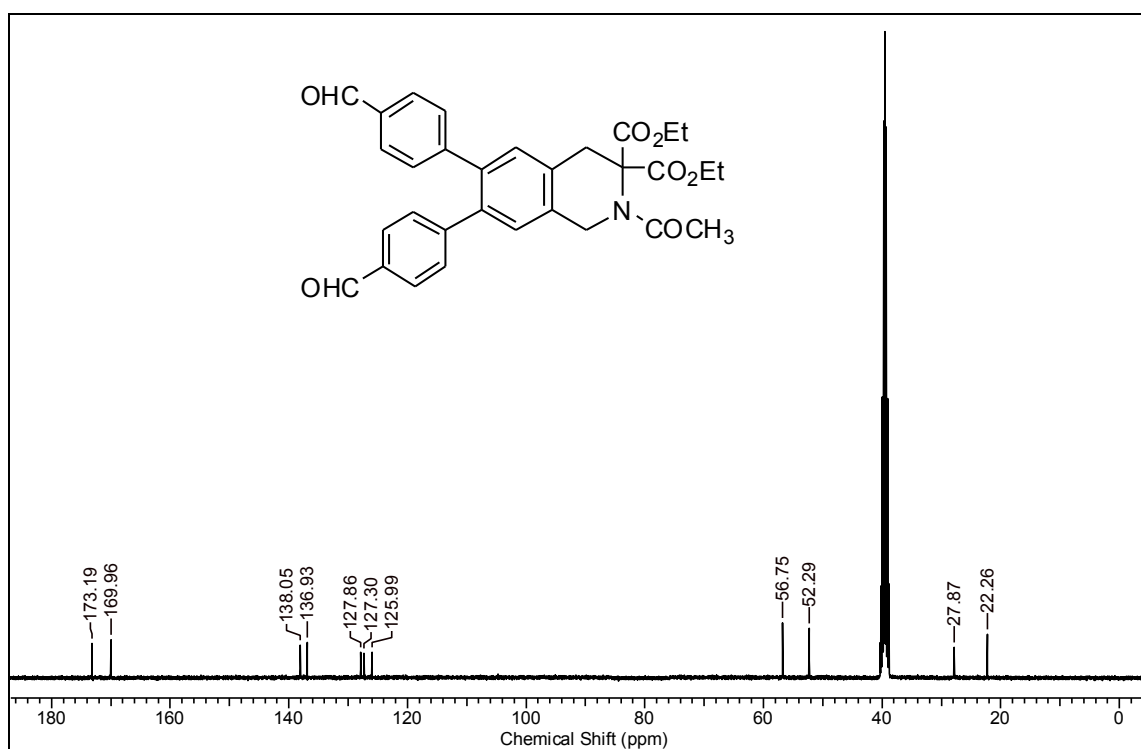
**Figure 39:** <sup>1</sup>H NMR spectrum of compound **8b**



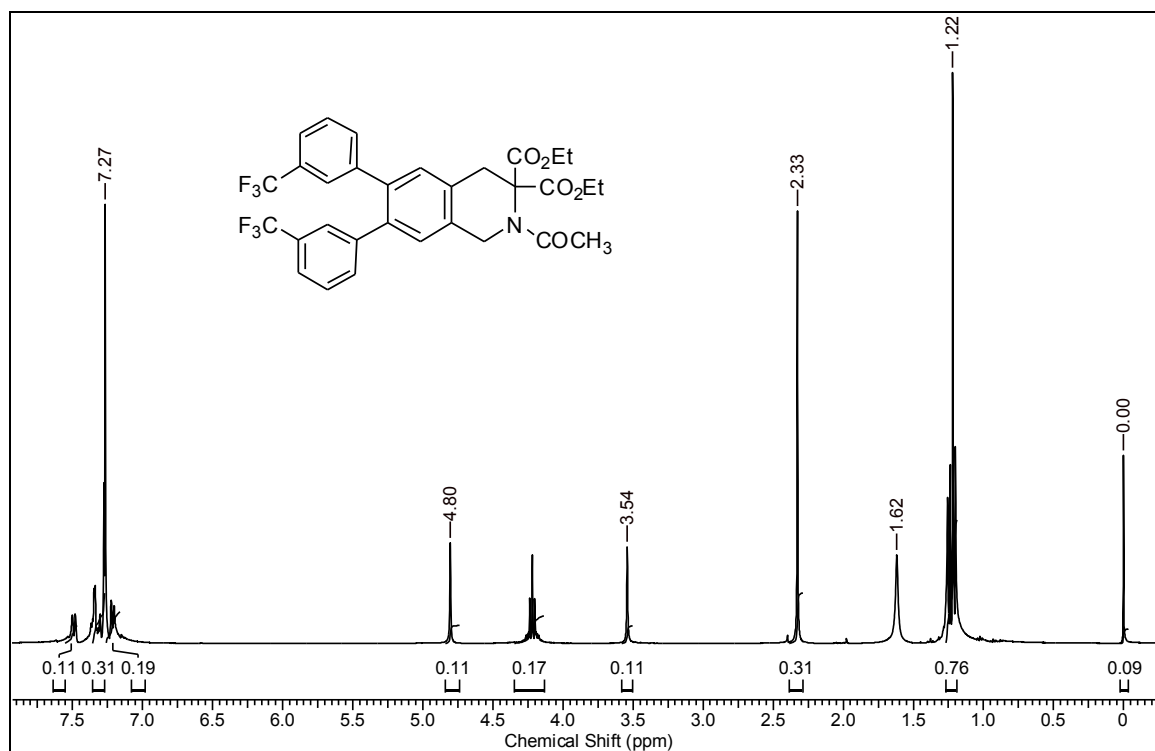
**Figure 40:** <sup>13</sup>C NMR spectrum of compound **8b**



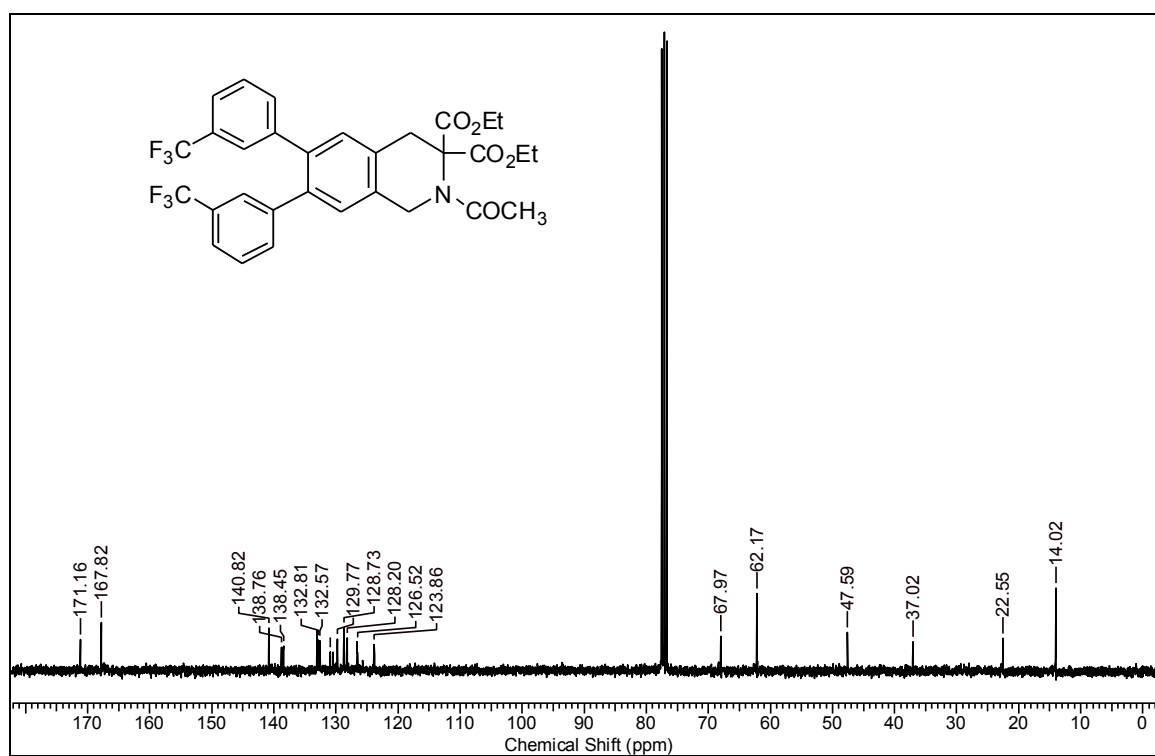
**Figure 41:** <sup>1</sup>H NMR spectrum of compound **8c**



**Figure 42:** <sup>13</sup>C NMR spectrum of compound **8c**



**Figure 43:**  $^1\text{H}$  NMR spectrum of compound **8d**



**Figure 44:**  $^{13}\text{C}$  NMR spectrum of compound **8d**