

**Supporting Information File 2**

**for**

**Hybrid macrocycle formation and spiro annulation on  
*cis-syn-cis*-tricyclo[6.3.0.0<sup>2,6</sup>]undeca-3,11-dione and its  
congeners via ring-closing metathesis**

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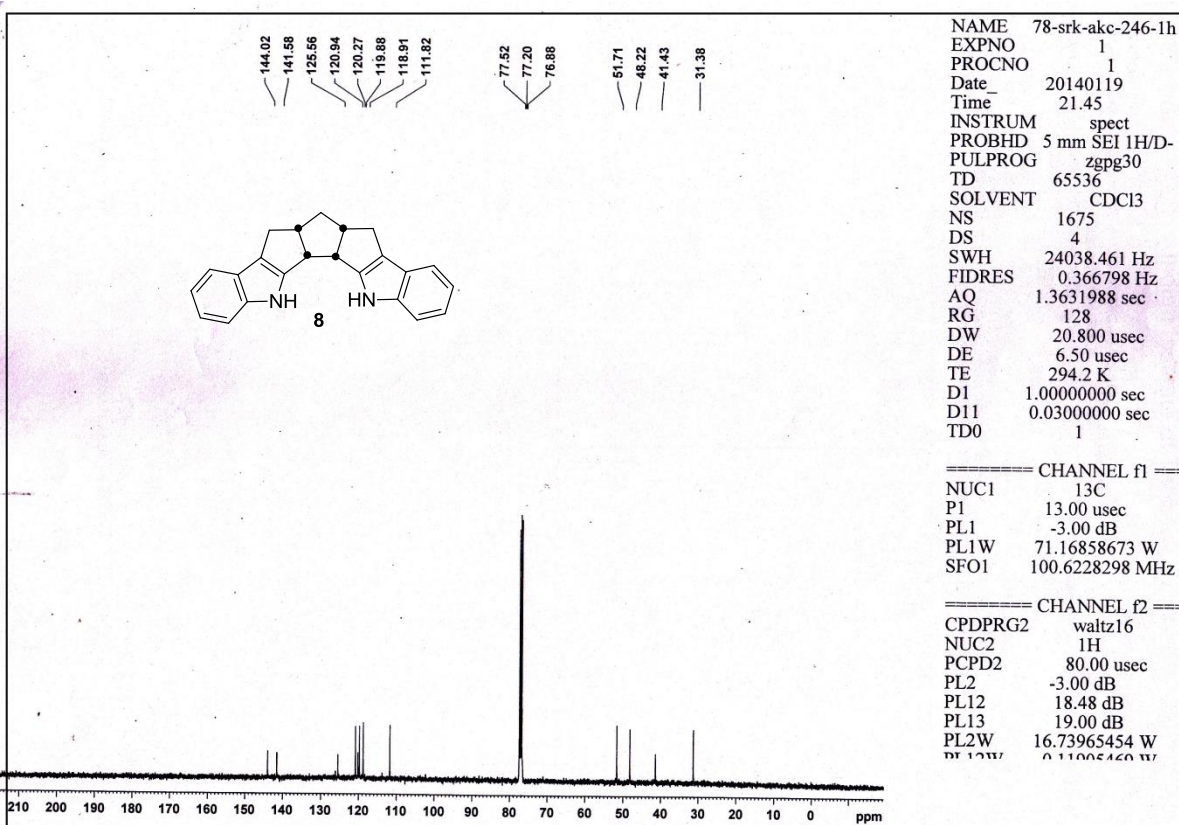
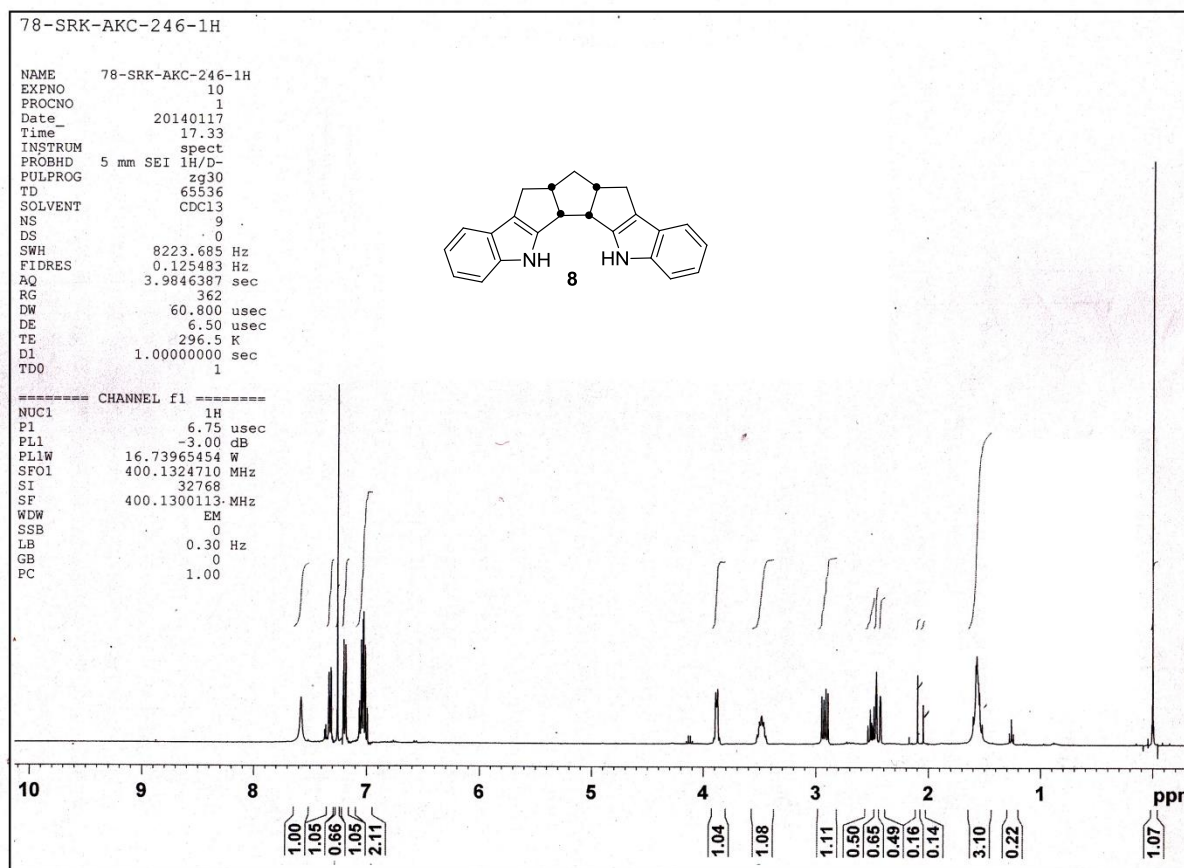
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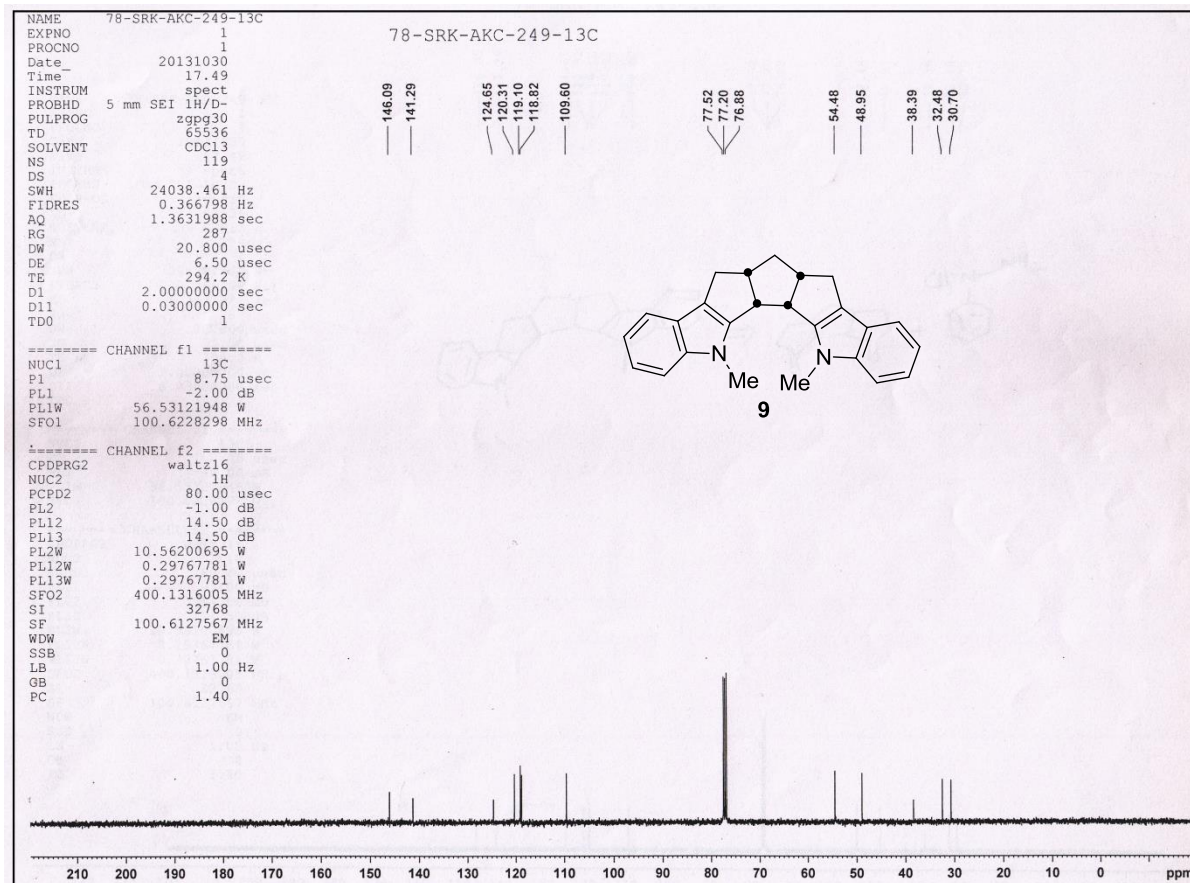
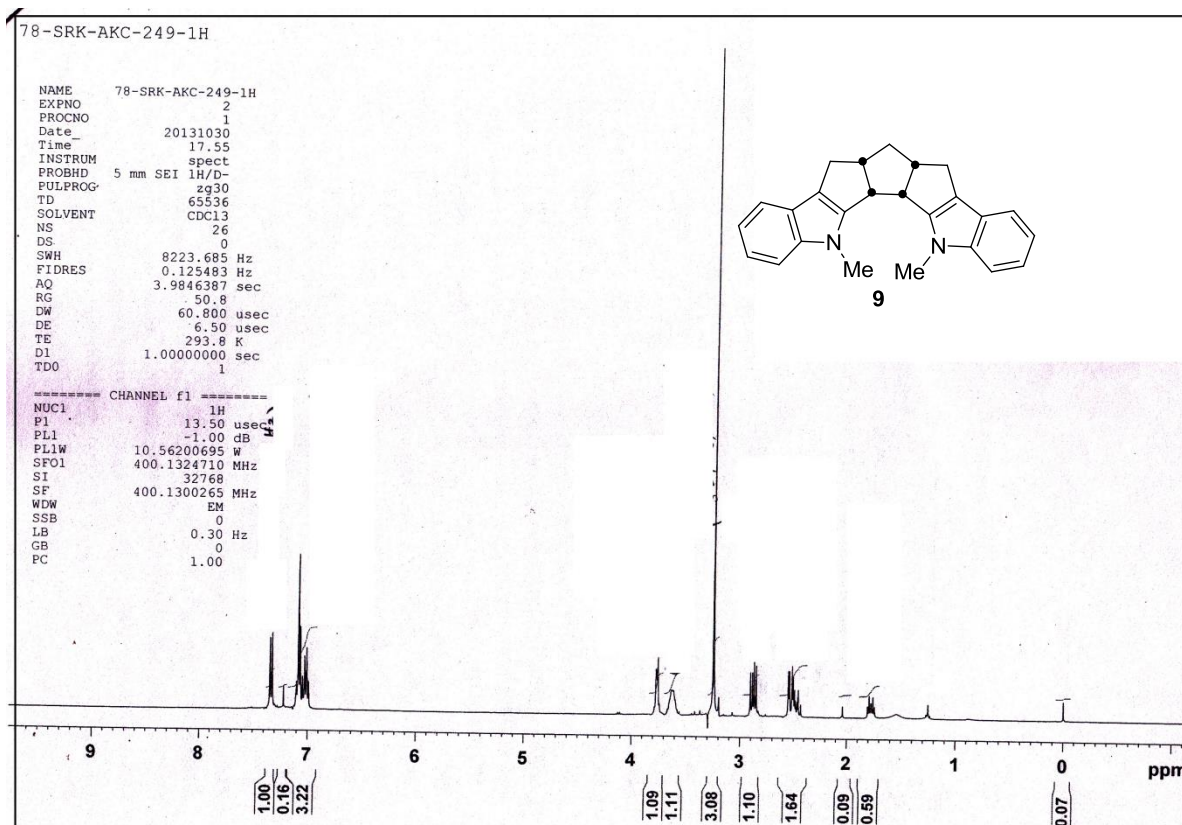
<sup>\*</sup>Corresponding author

**NMR spectra**

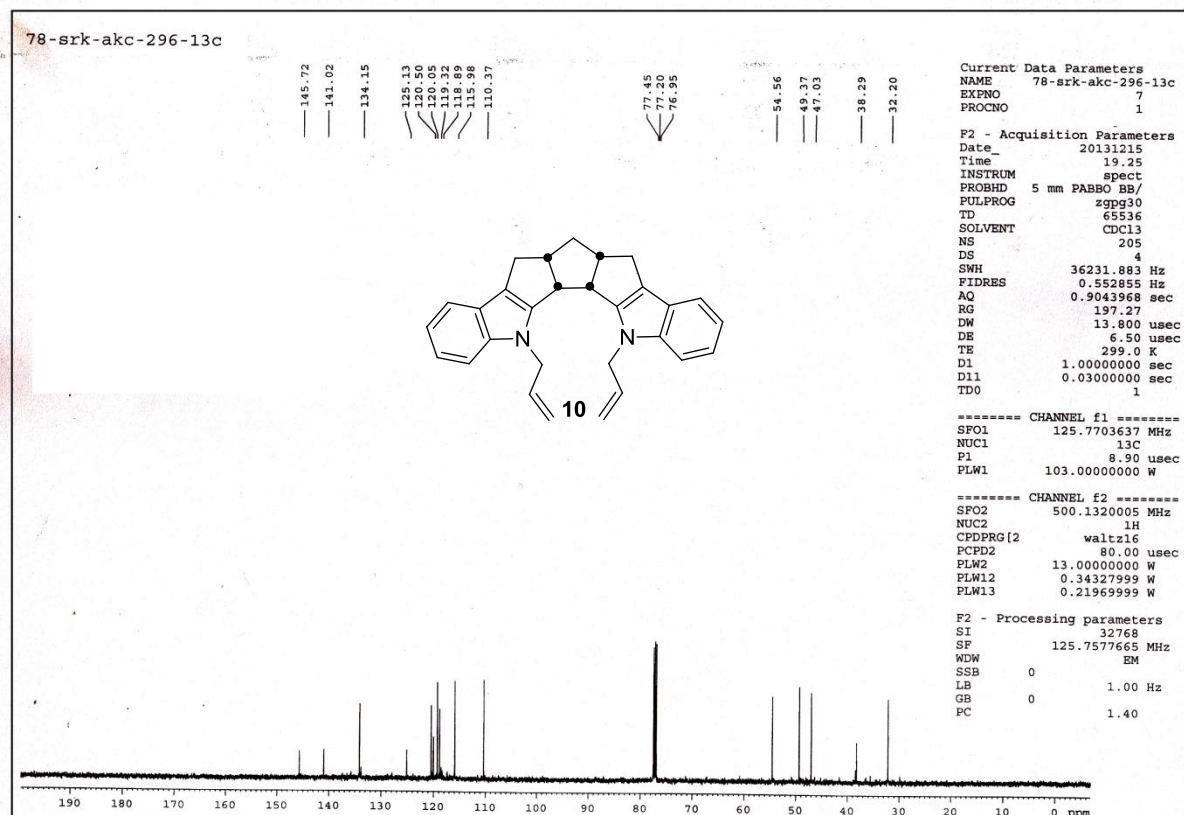
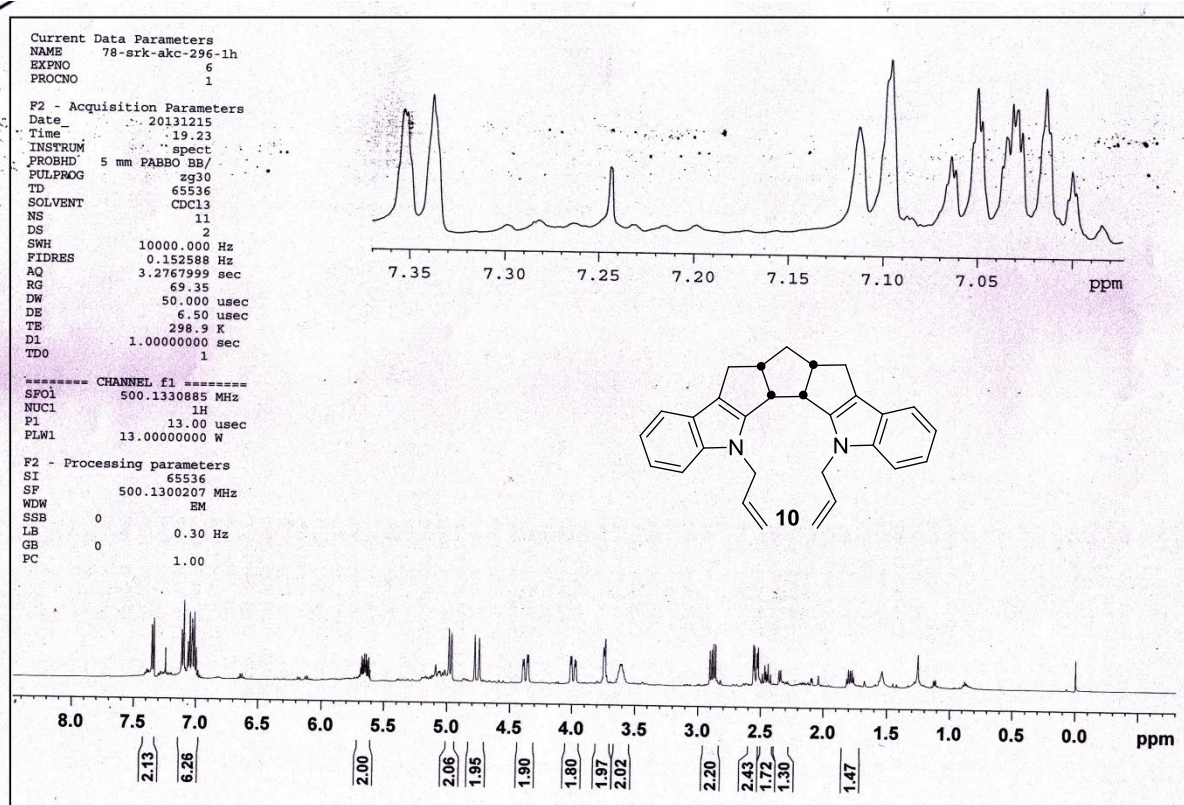
Compound 8 <sup>1</sup>H and <sup>13</sup>C NMR (400 MHz, CDCl<sub>3</sub>)



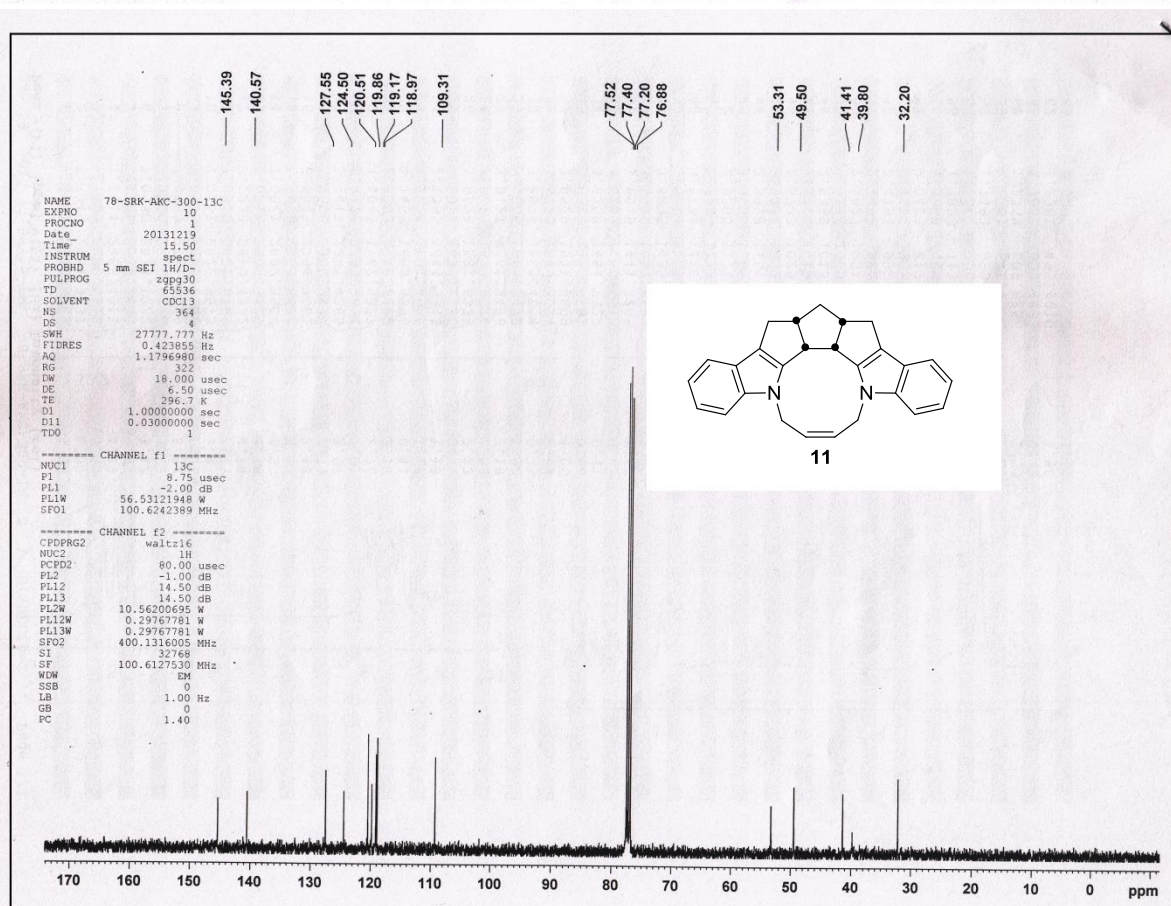
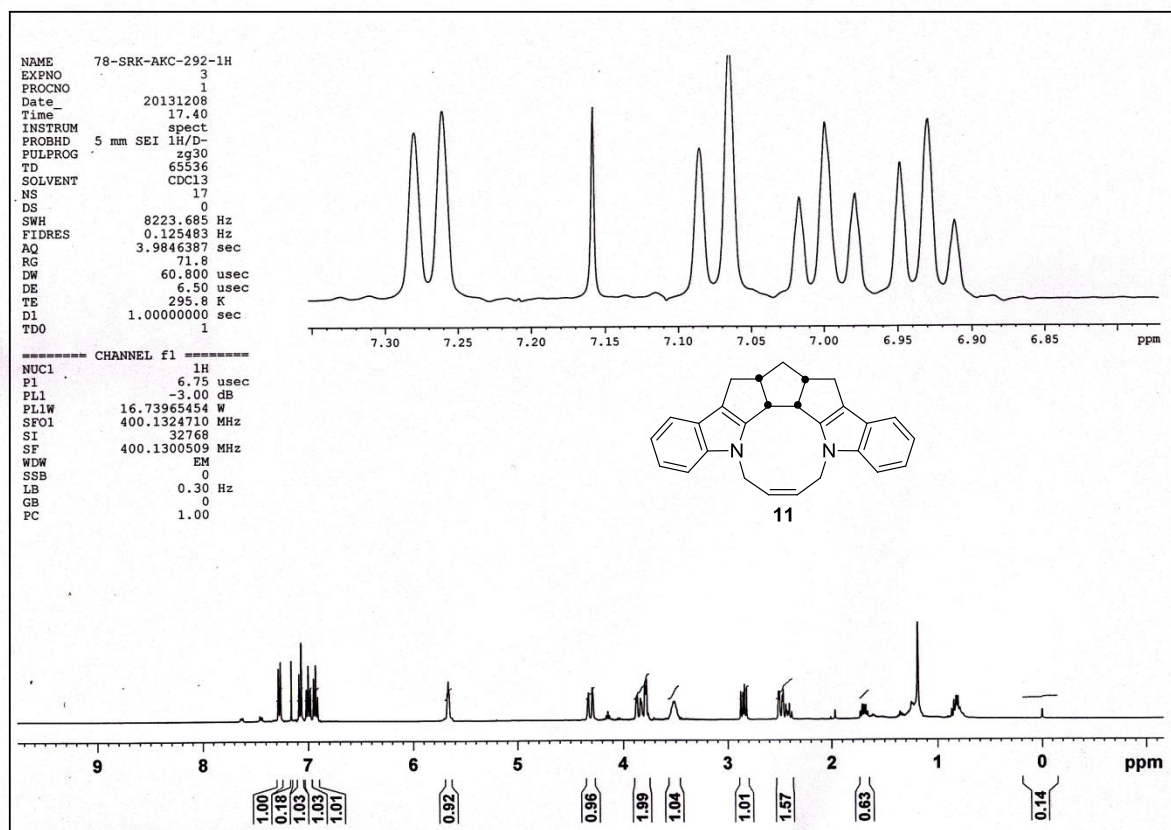
Compound 9 <sup>1</sup>H and <sup>13</sup>C NMR (400 MHz, CDCl<sub>3</sub>)



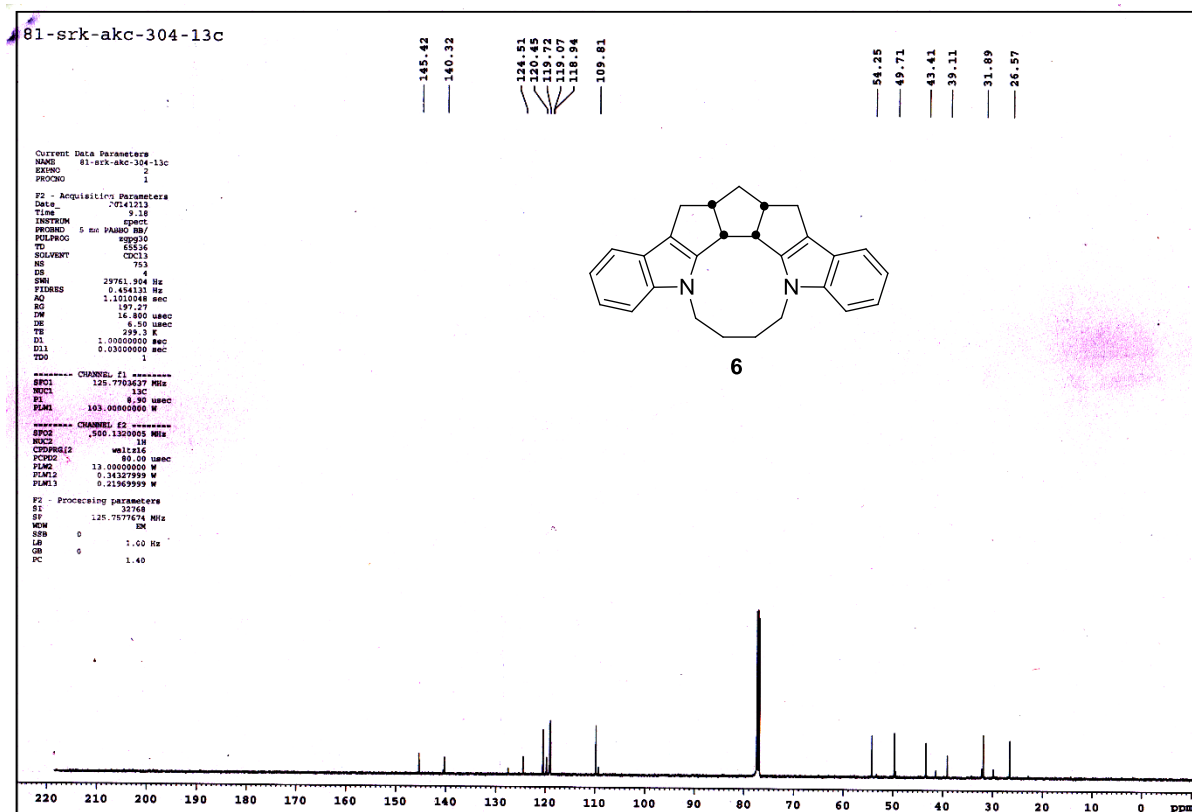
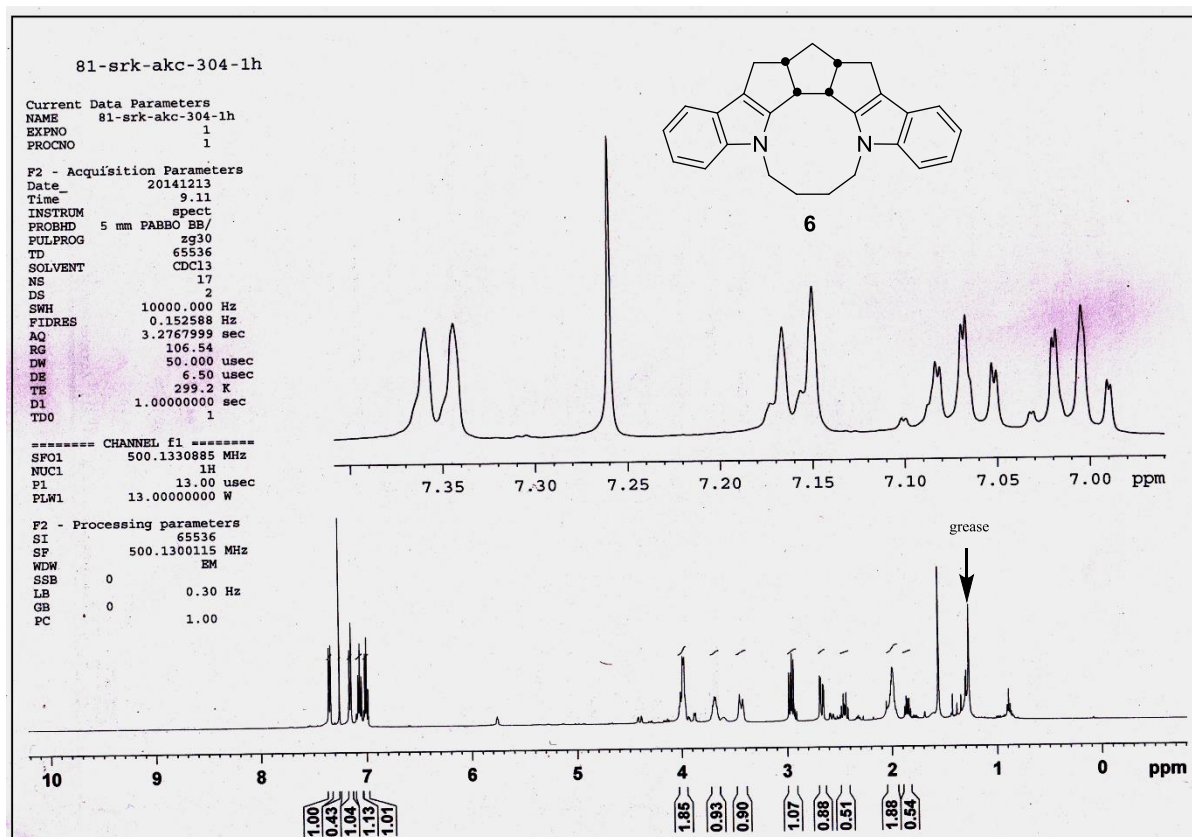
# Compound 10 <sup>1</sup>H and <sup>13</sup>C NMR (500 MHz, CDCl<sub>3</sub>)



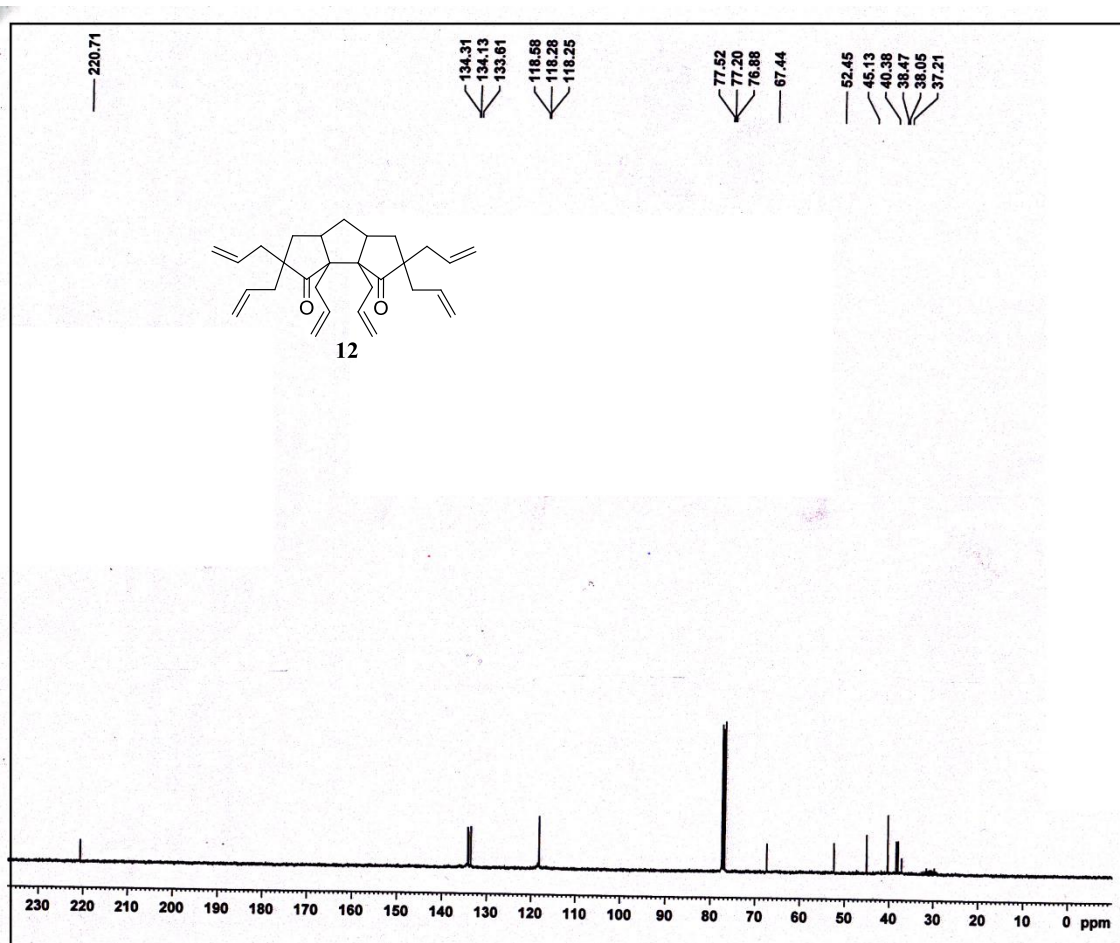
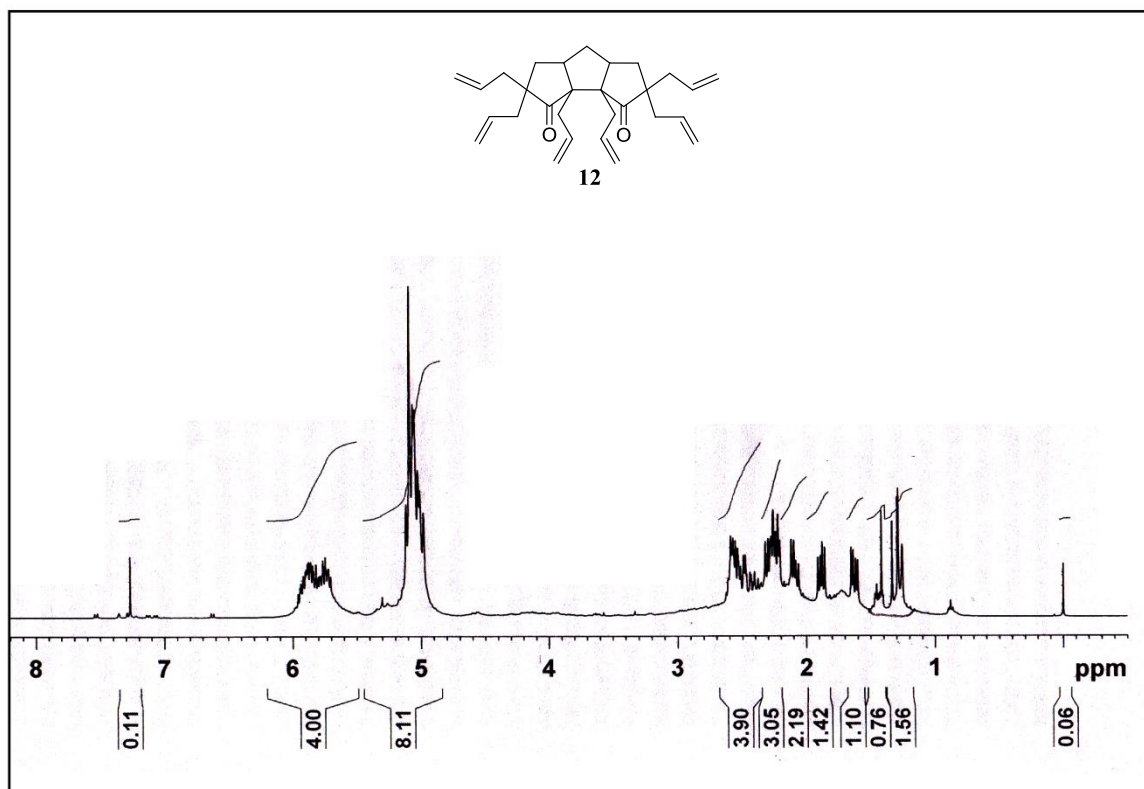
# Compound 11 <sup>1</sup>H and <sup>13</sup>C NMR (400 MHz, CDCl<sub>3</sub>)



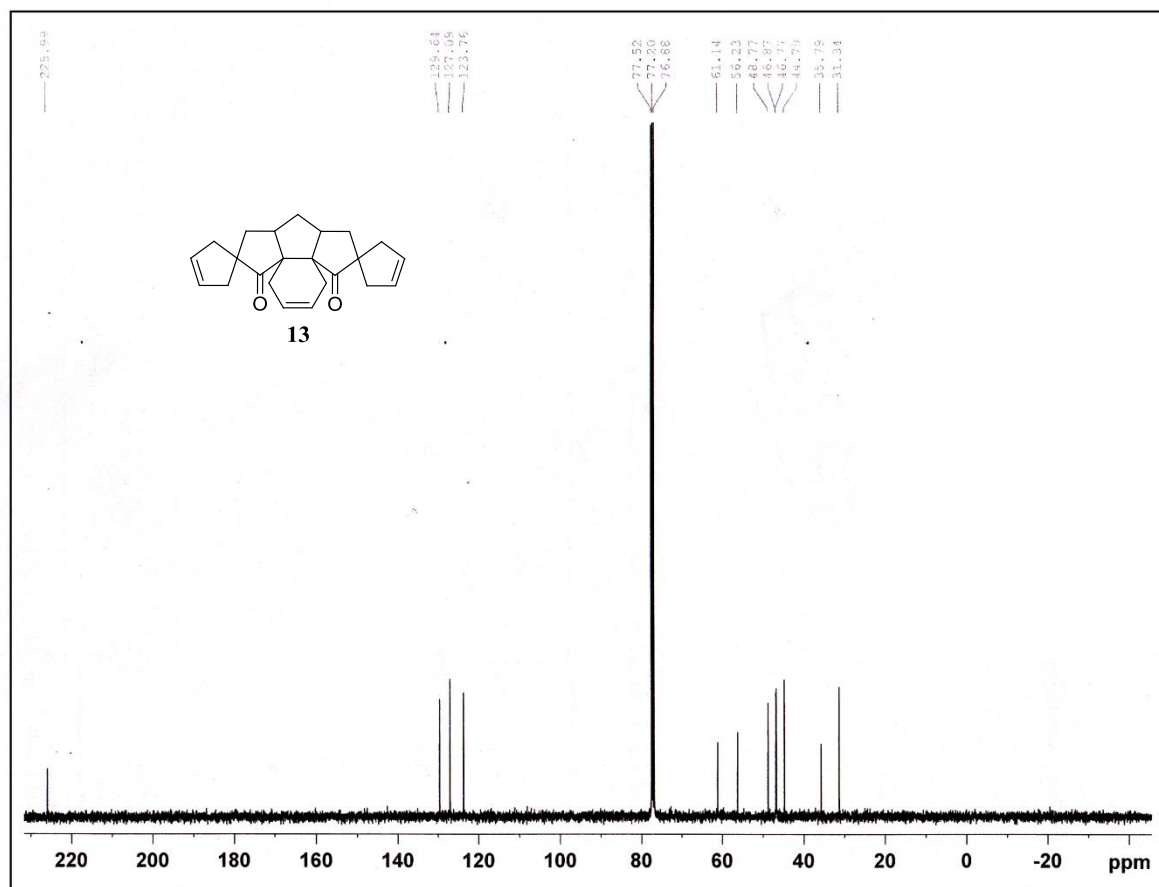
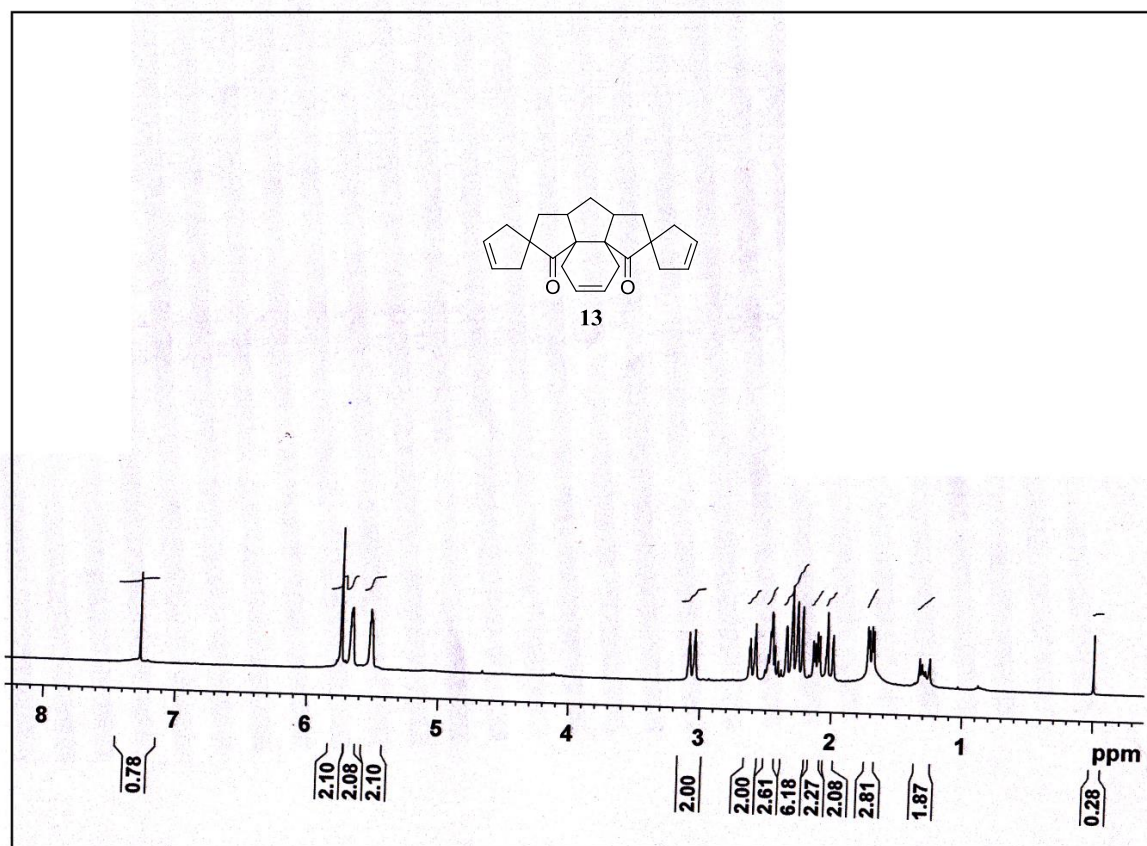
Compound 6  $^1\text{H}$  (400 MHz,  $\text{CDCl}_3$ ) and  $^{13}\text{C}$  NMR (500 MHz,  $\text{CDCl}_3$ )



Compound 12  $^1\text{H}$  and  $^{13}\text{C}$  NMR (400 MHz,  $\text{CDCl}_3$ )

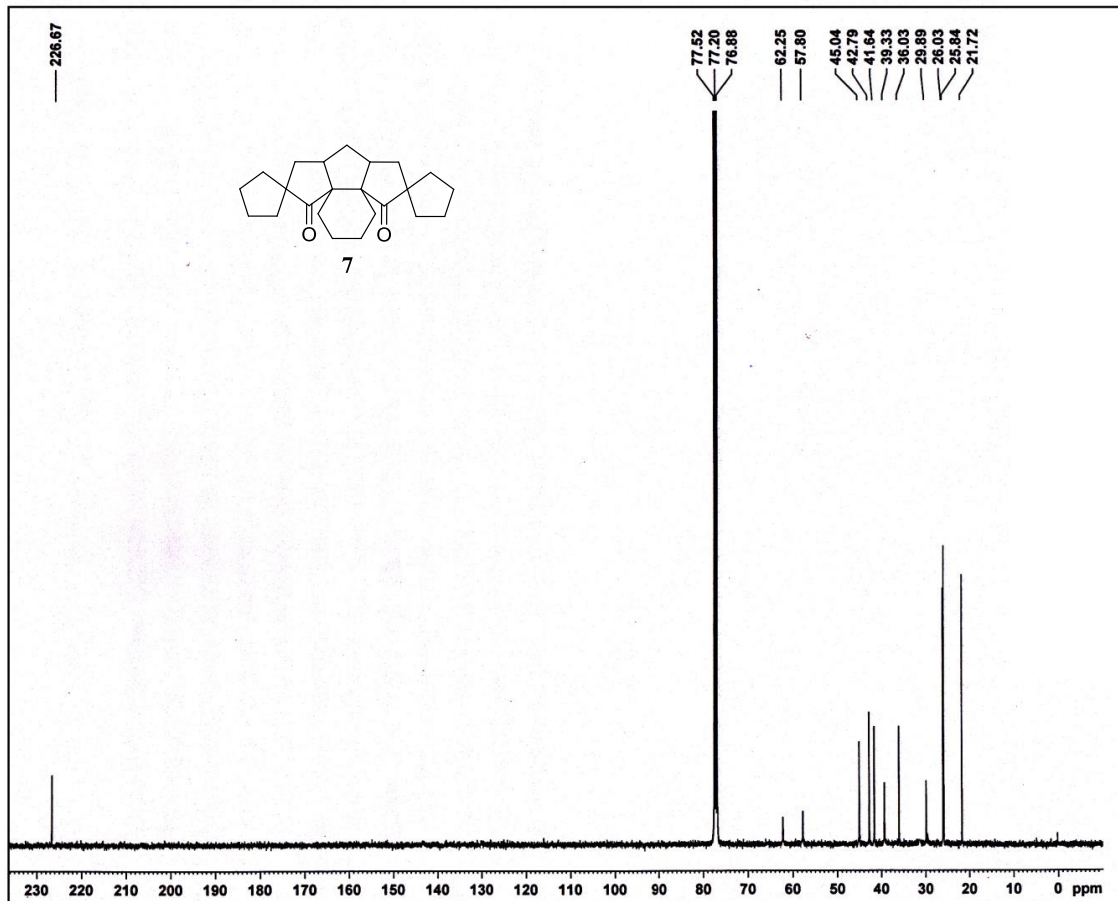
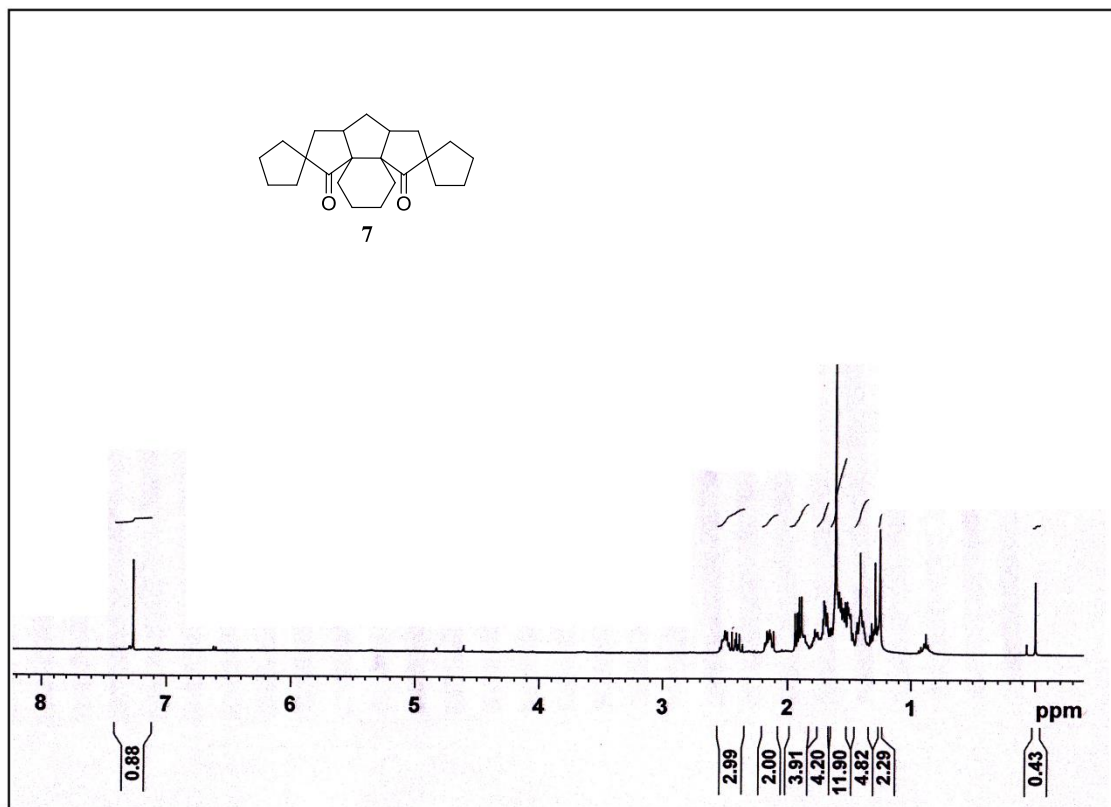


Compound 13  $^1\text{H}$  and  $^{13}\text{C}$  NMR (400 MHz,  $\text{CDCl}_3$ )

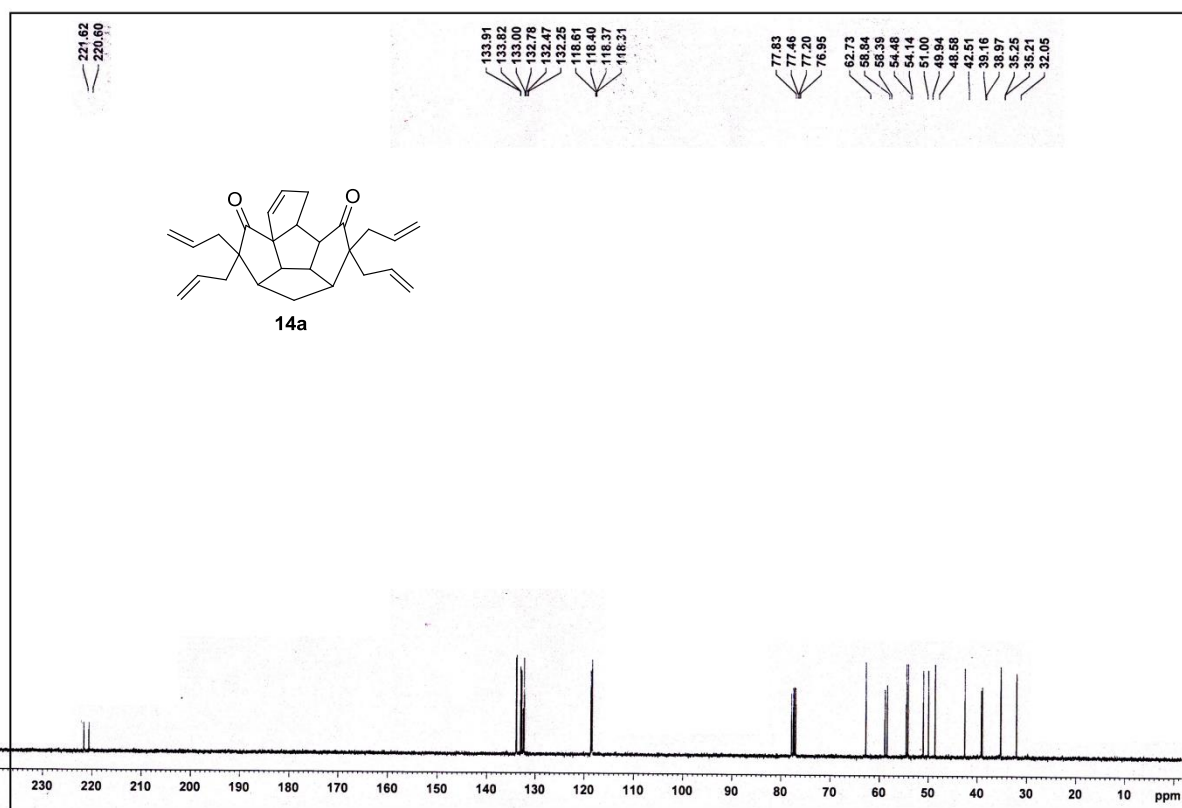
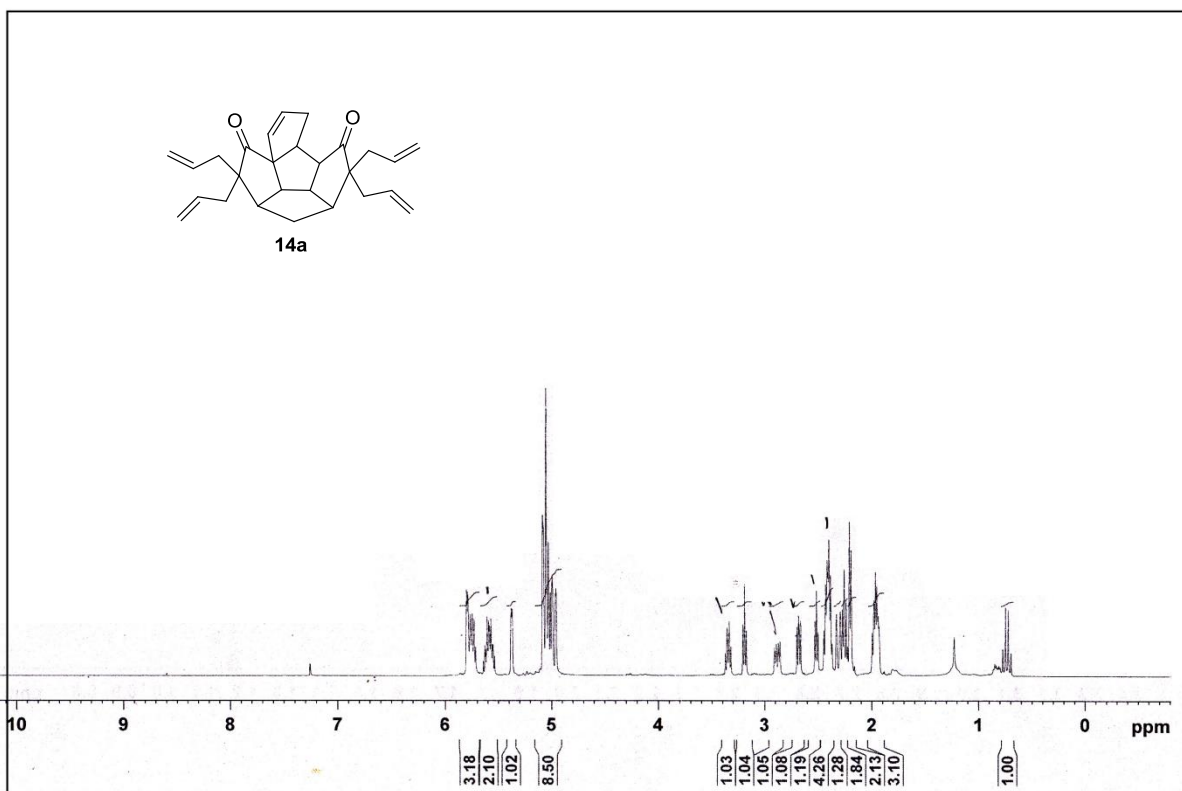




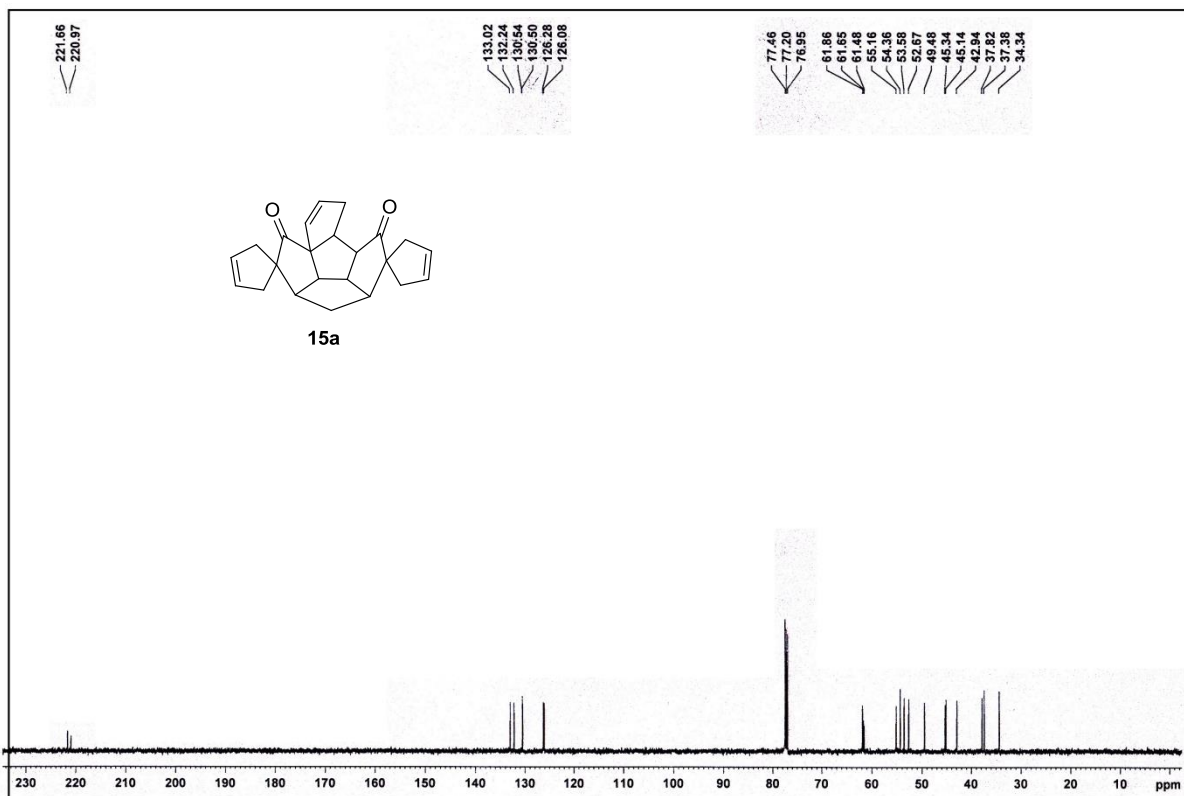
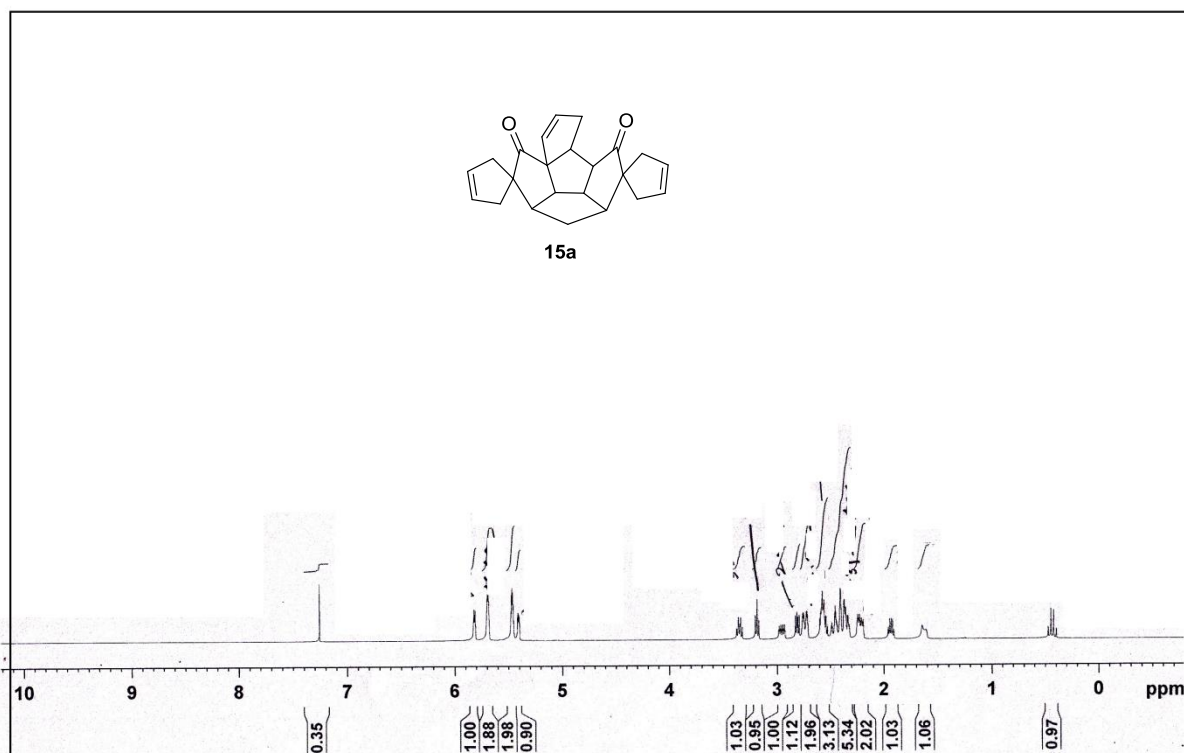
Compound 7  $^1\text{H}$  and  $^{13}\text{C}$  NMR (400 MHz,  $\text{CDCl}_3$ )



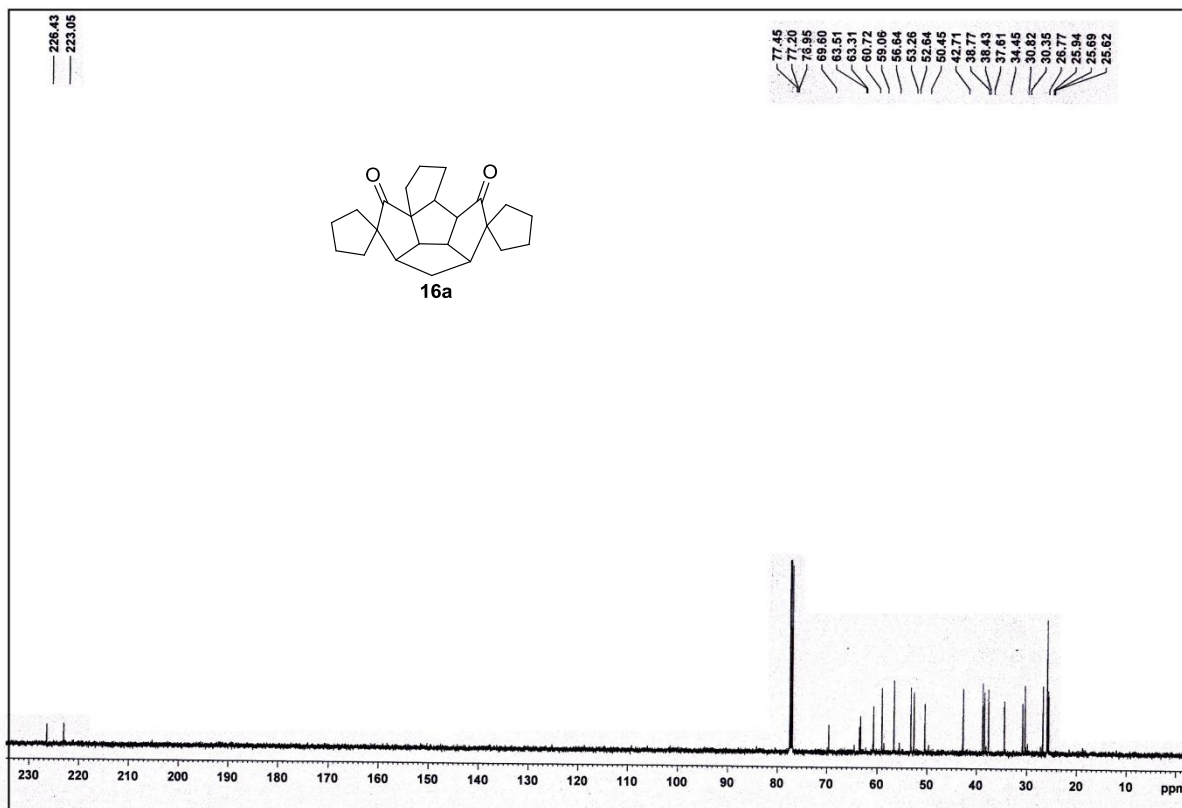
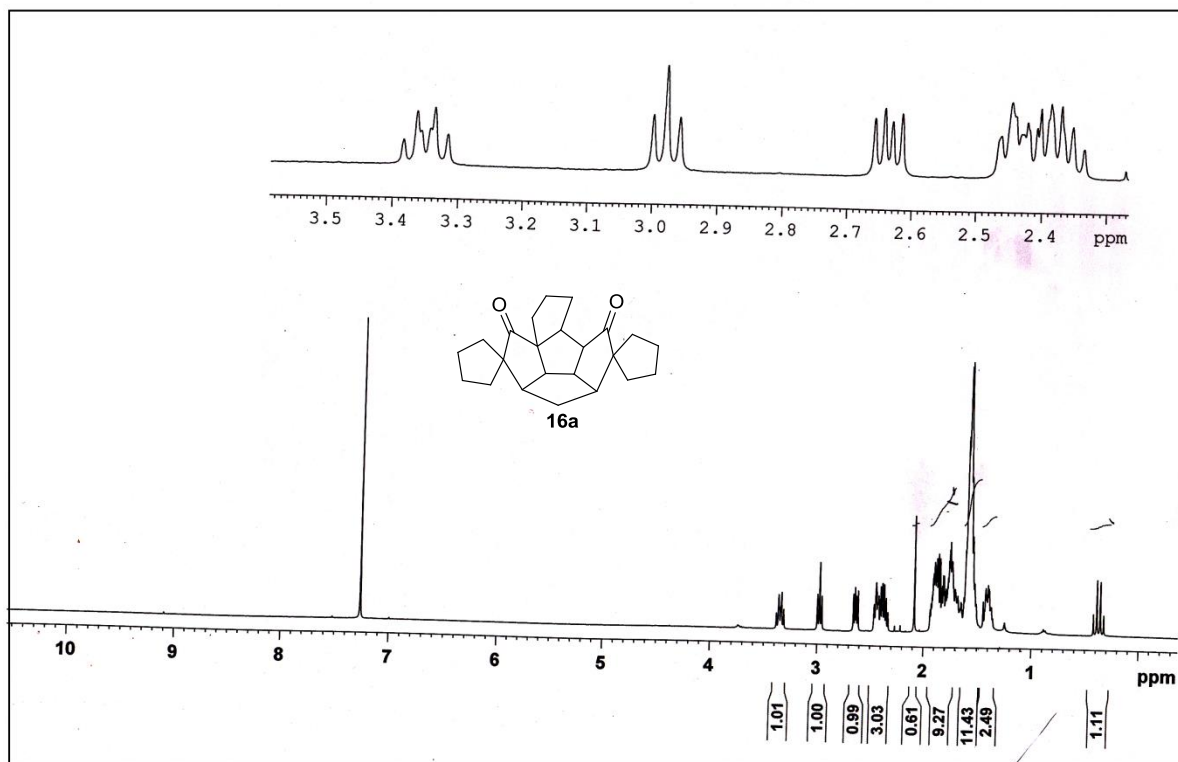
Compound 14a <sup>1</sup>H and <sup>13</sup>C NMR (400 MHz, CDCl<sub>3</sub>)



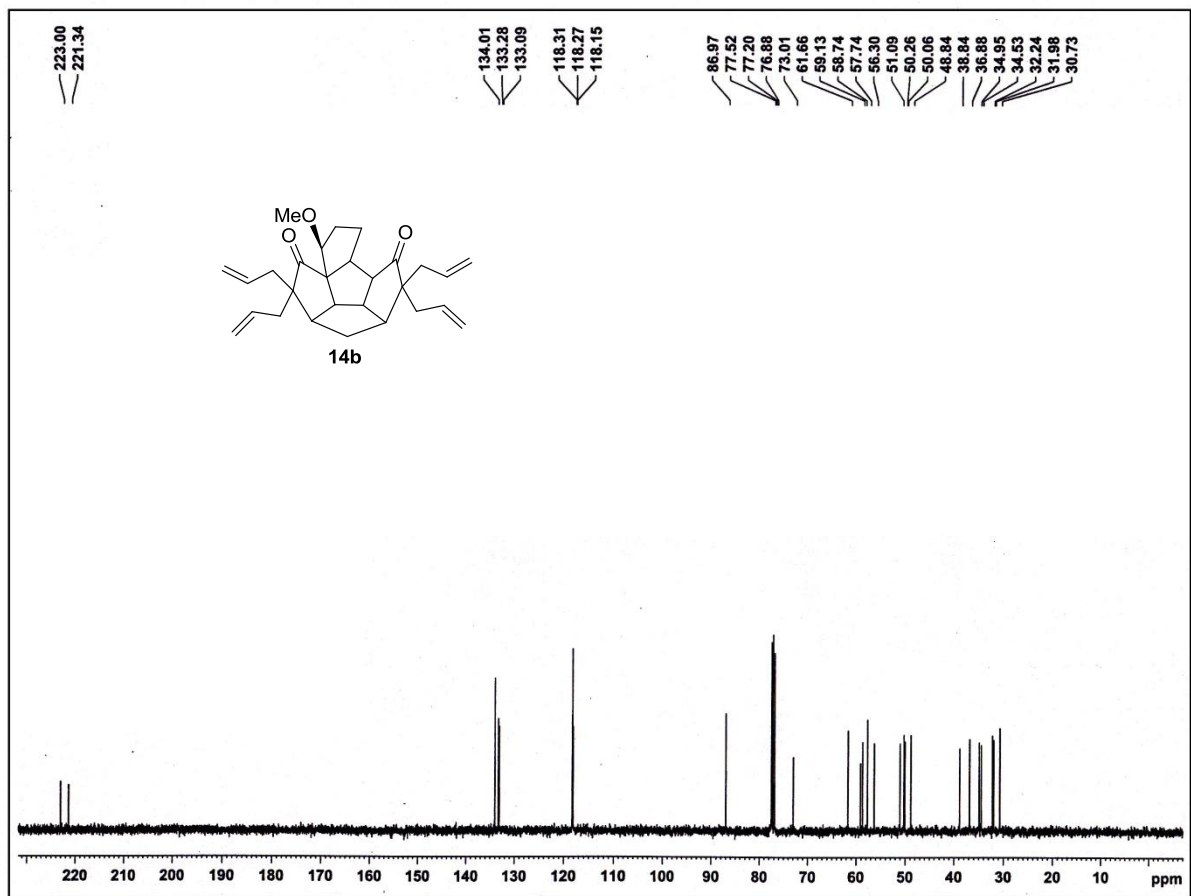
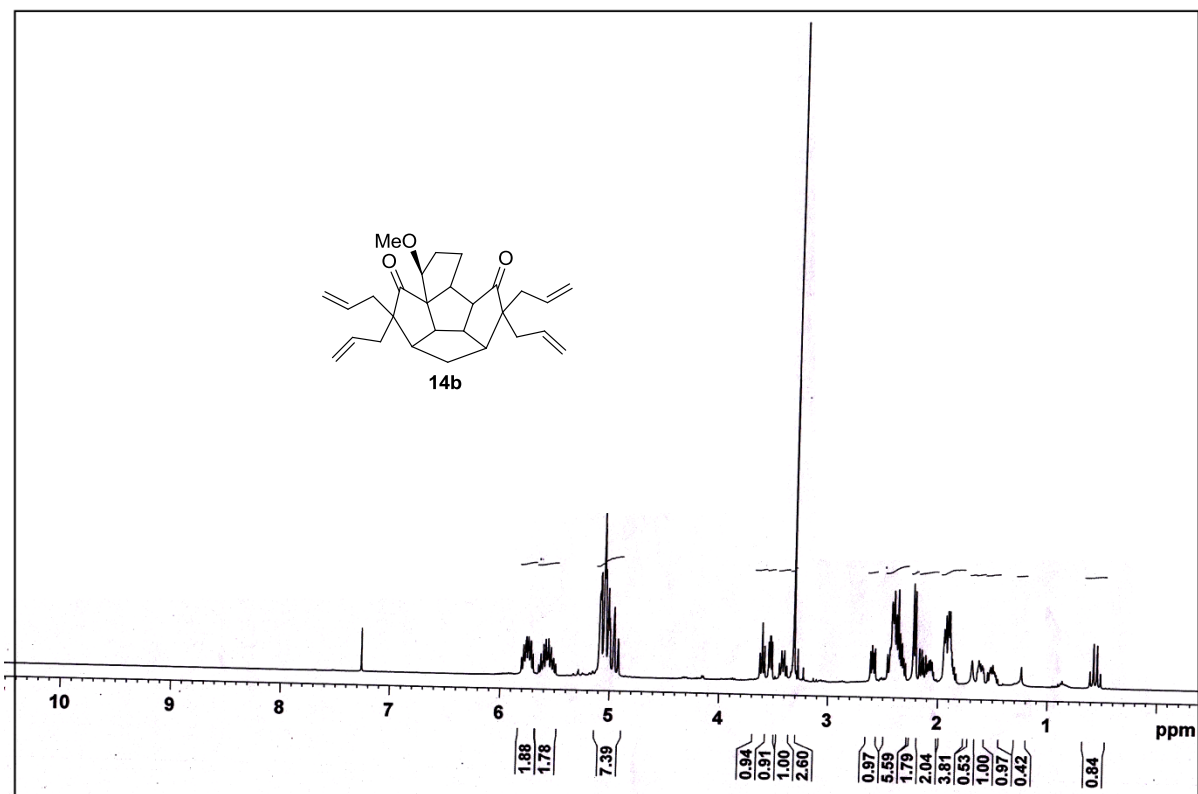
Compound 15a  $^1\text{H}$  and  $^{13}\text{C}$  NMR (400 MHz,  $\text{CDCl}_3$ )



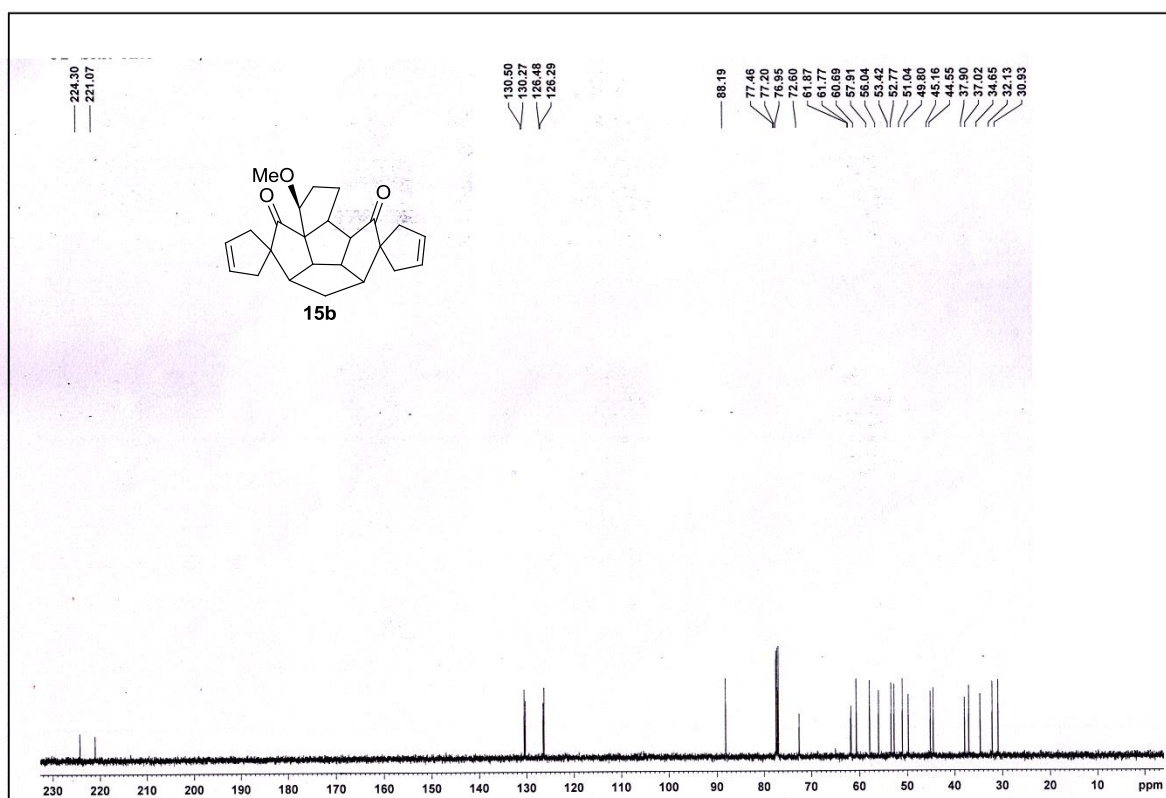
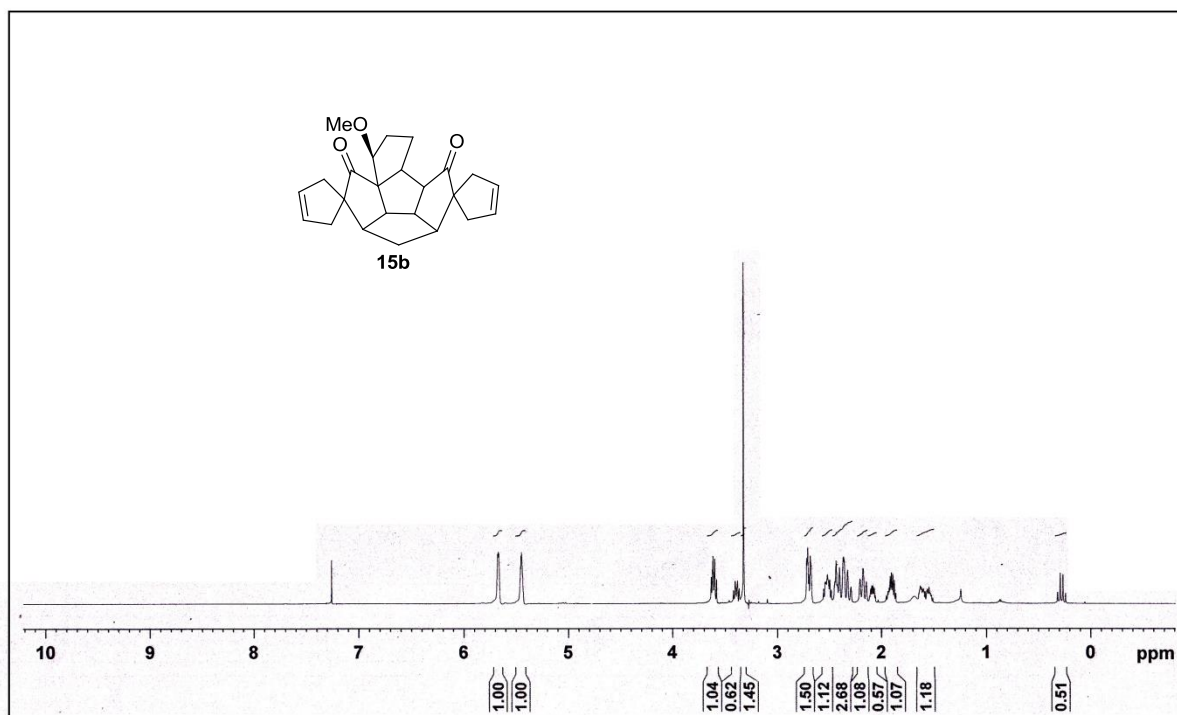
Compound 16a  $^1\text{H}$  and  $^{13}\text{C}$  NMR (500 MHz,  $\text{CDCl}_3$ )



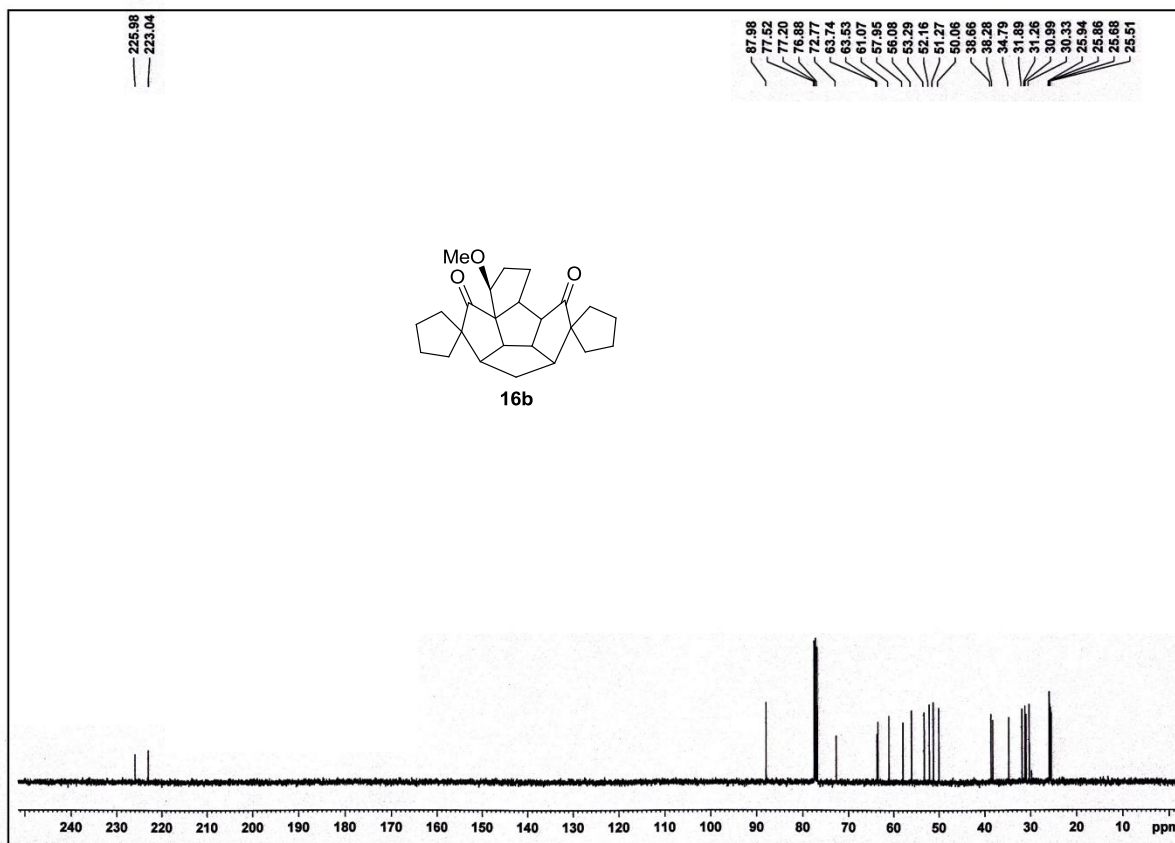
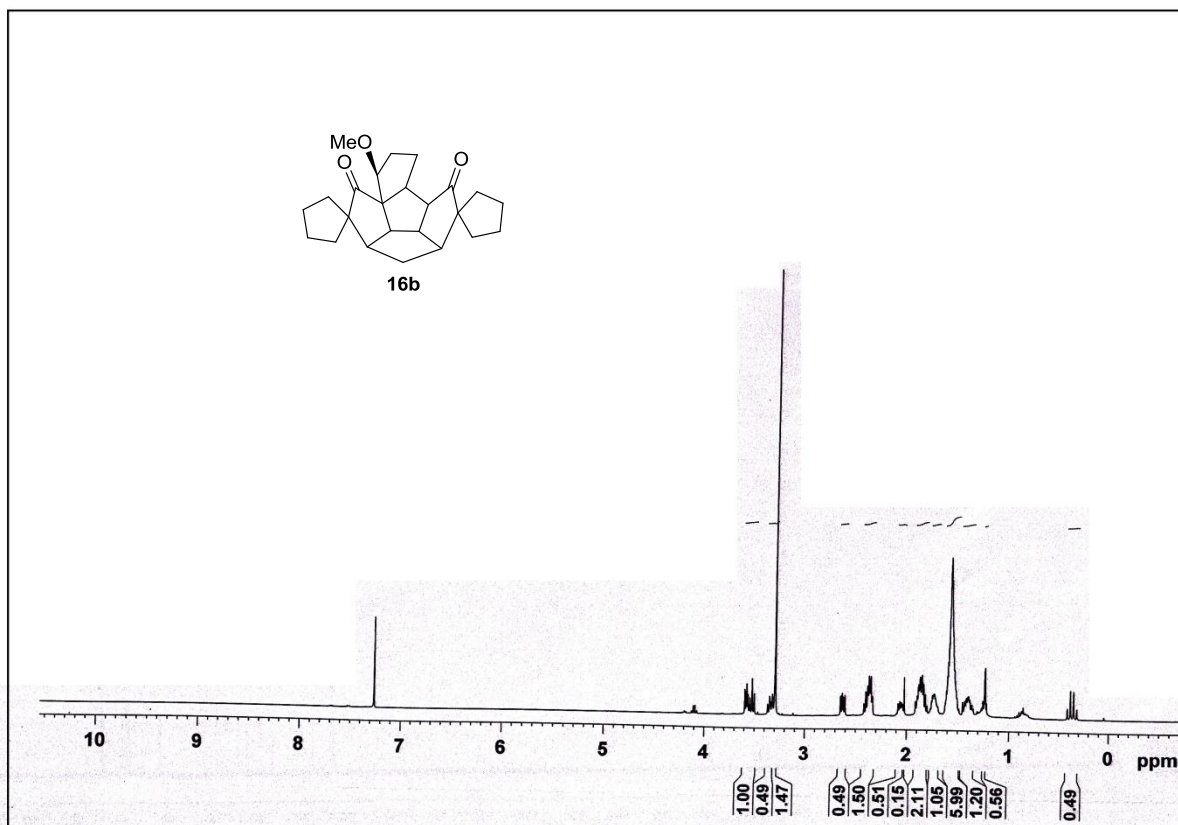
Compound 14b  $^1\text{H}$  and  $^{13}\text{C}$  NMR (400 MHz,  $\text{CDCl}_3$ )



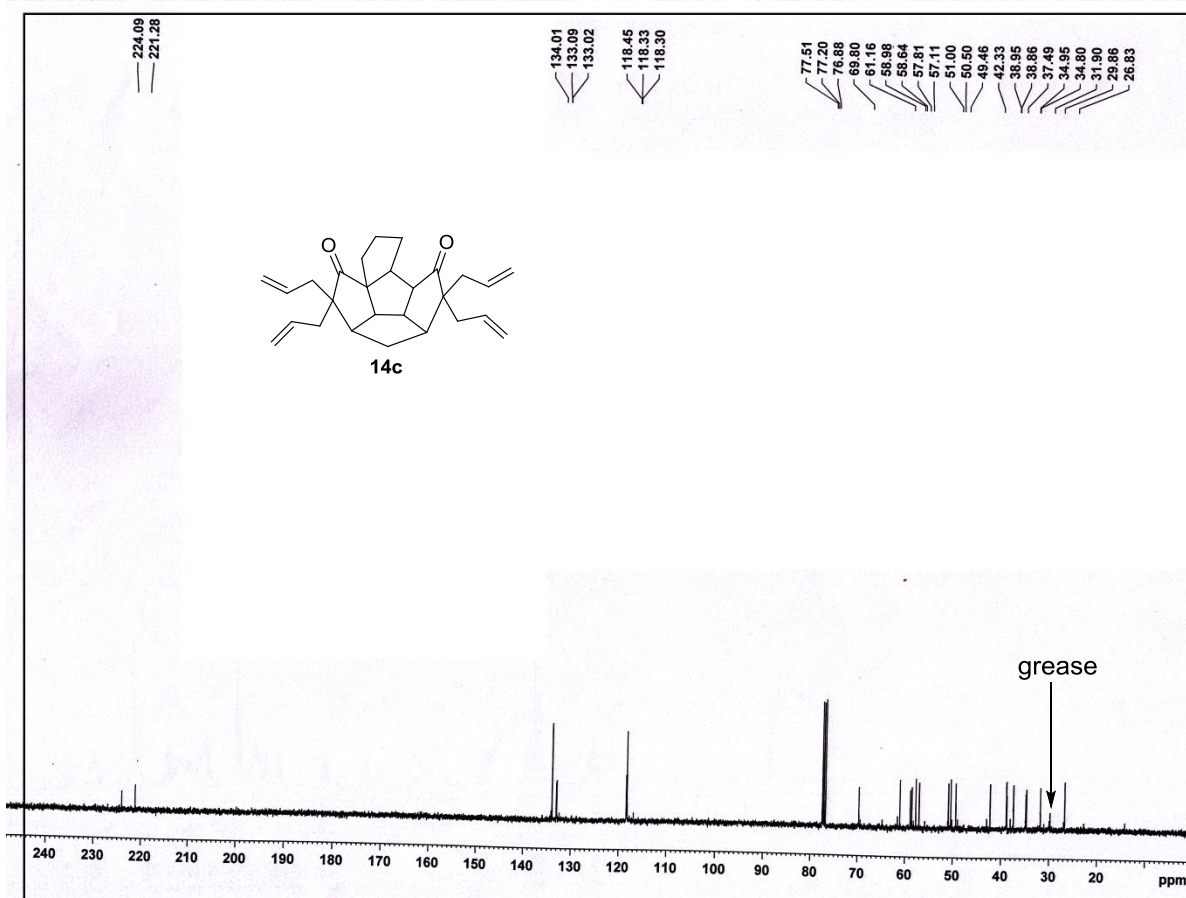
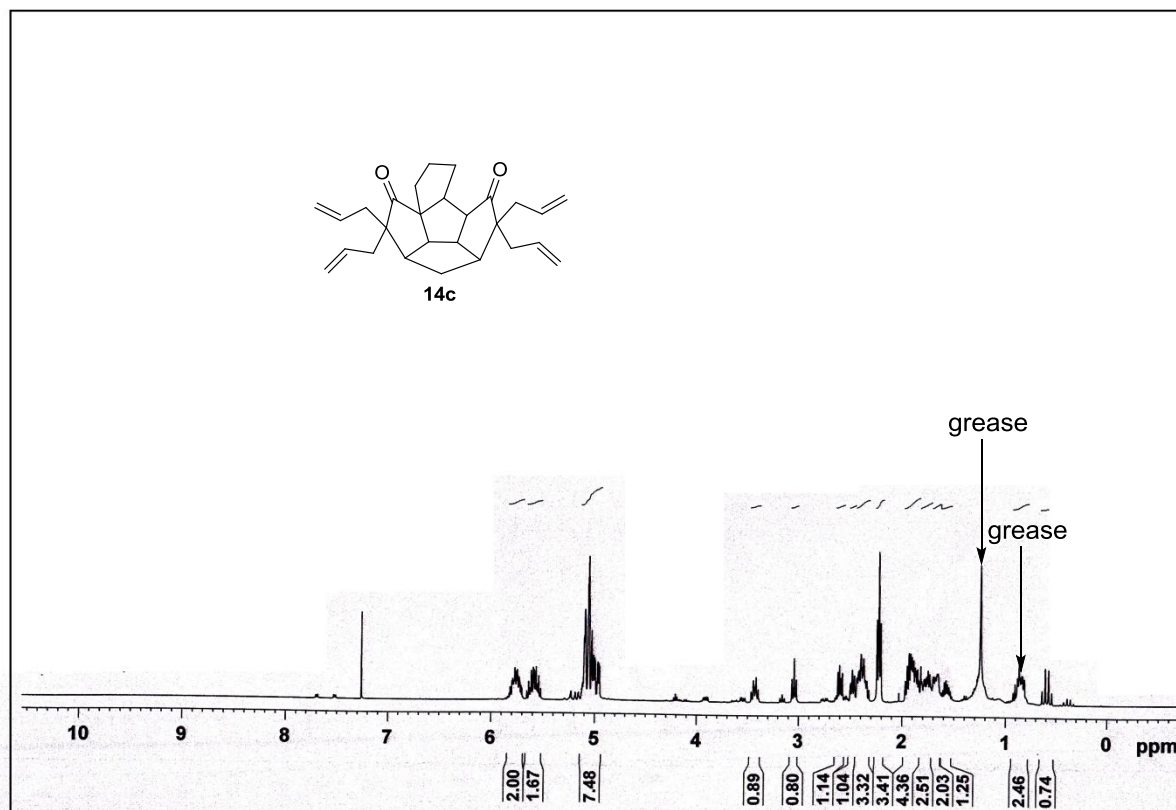
Compound 15b  $^1\text{H}$  and  $^{13}\text{C}$  NMR (500 MHz,  $\text{CDCl}_3$ )



Compound 16b  $^1\text{H}$  and  $^{13}\text{C}$  NMR (400 MHz,  $\text{CDCl}_3$ )

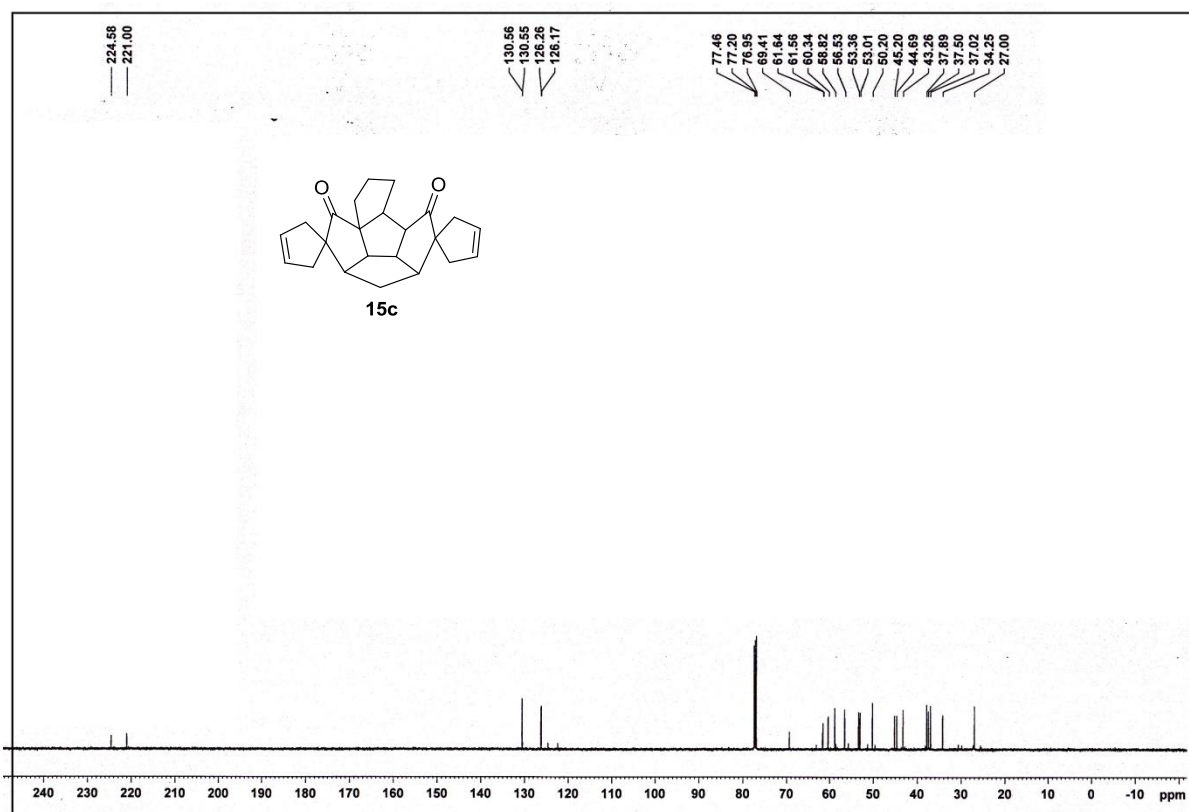
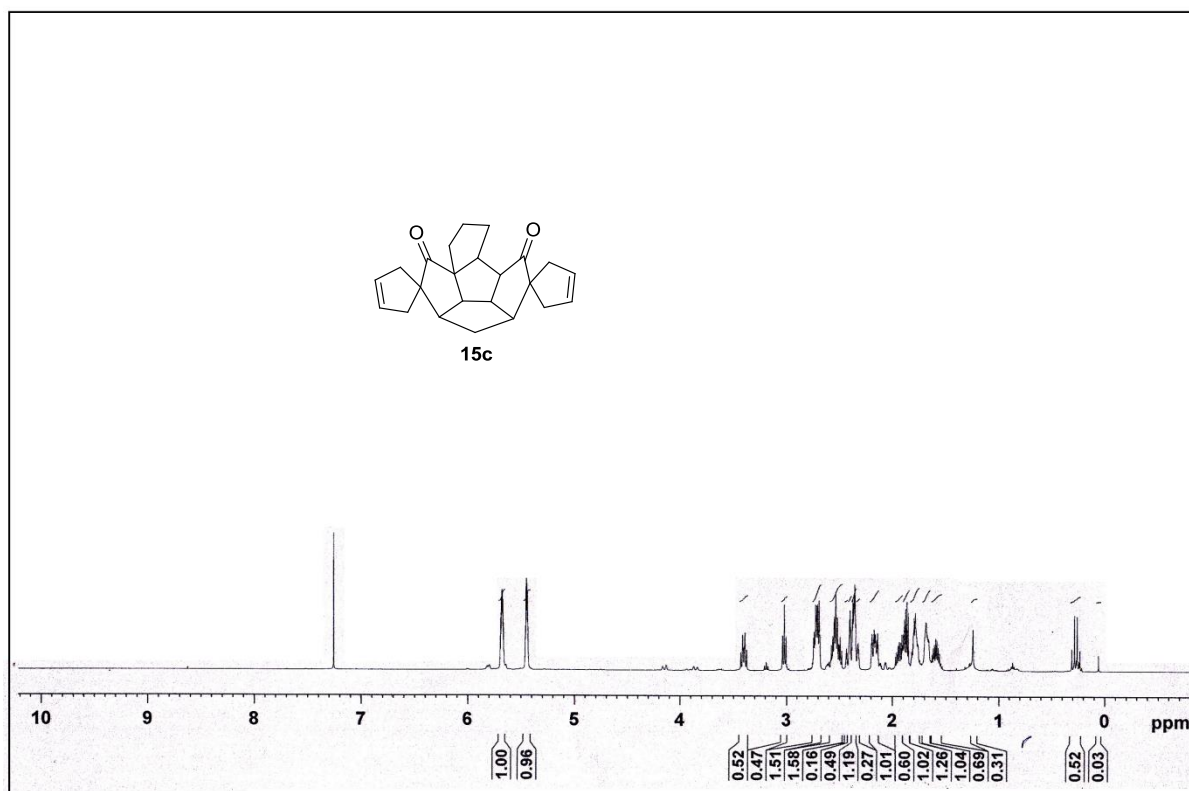


Compound 14c <sup>1</sup>H and <sup>13</sup>C NMR (400 MHz, CDCl<sub>3</sub>)

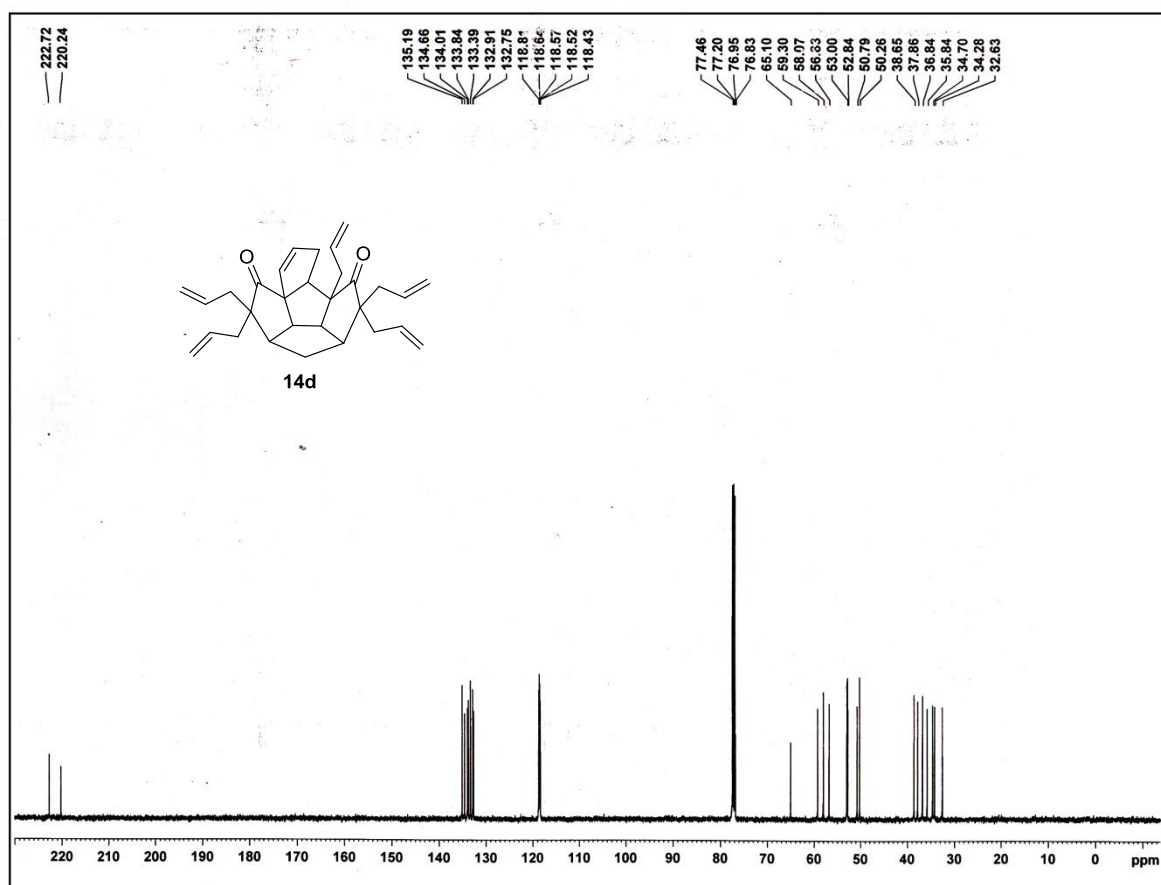
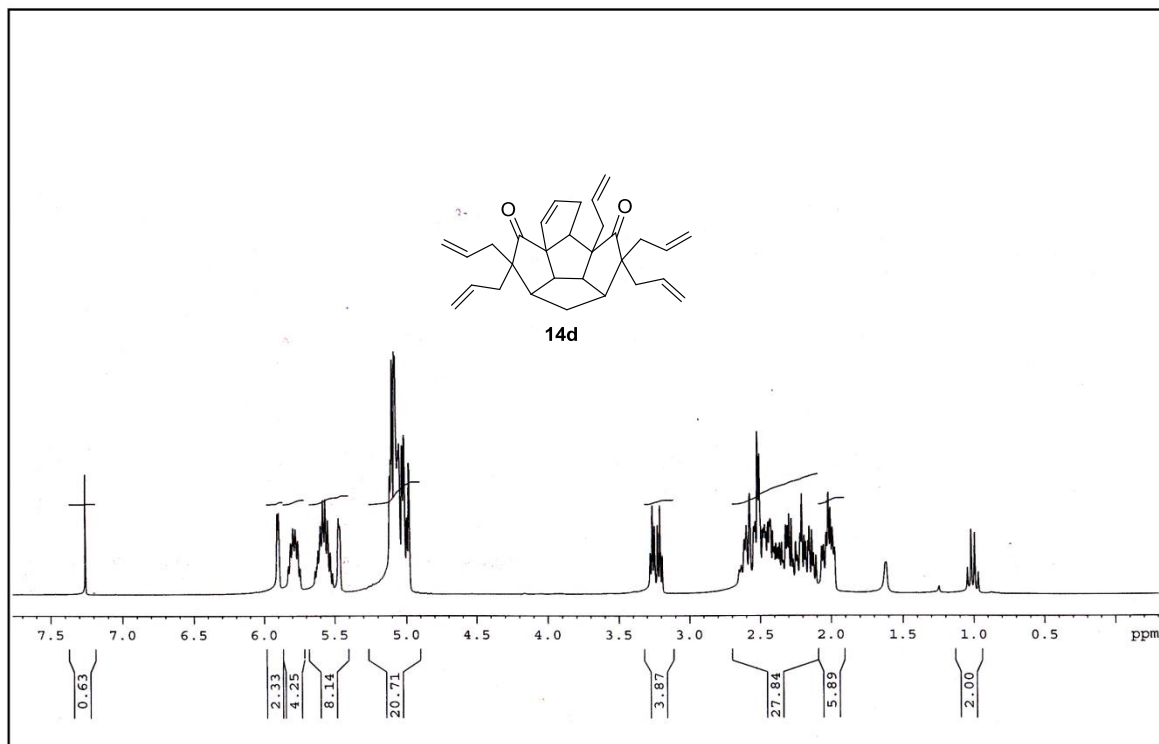




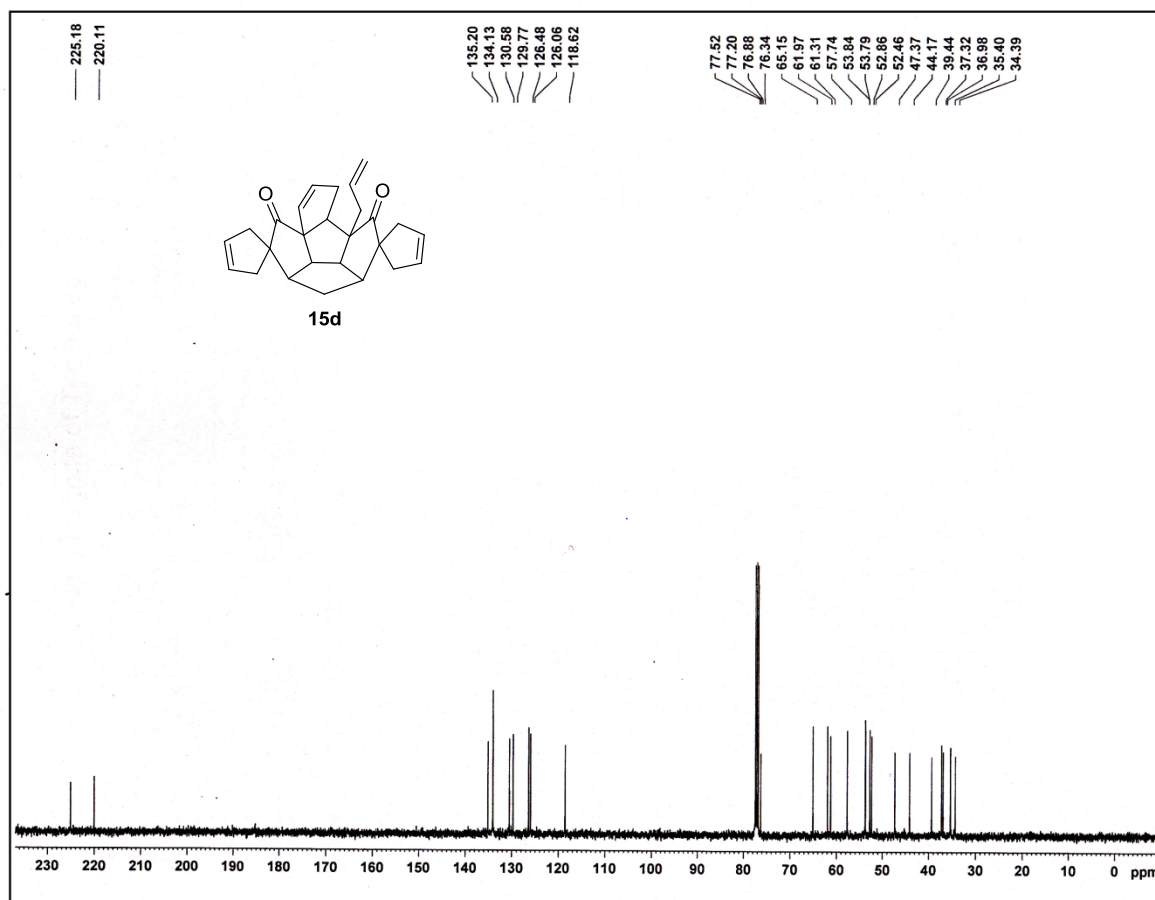
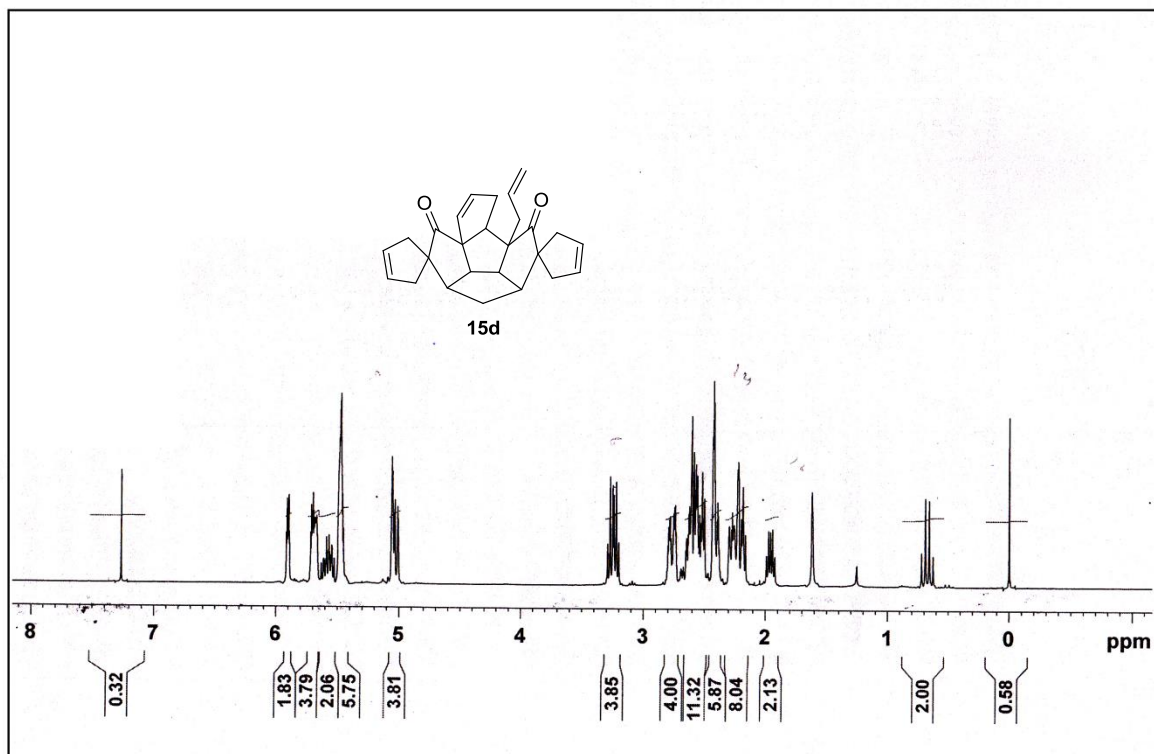
Compound 15c <sup>1</sup>H and <sup>13</sup>C NMR (500 MHz, CDCl<sub>3</sub>)



Compound 14d <sup>1</sup>H and <sup>13</sup>C NMR (500 MHz, CDCl<sub>3</sub>)



Compound 15d <sup>1</sup>H and <sup>13</sup>C NMR (500 MHz, CDCl<sub>3</sub>)



Compound 16d  $^1\text{H}$  and  $^{13}\text{C}$  NMR (500 MHz,  $\text{CDCl}_3$ )

