

## **Supplementary Information**

### **(NMR Spectra)**

#### **Synthesis of aryl substituted quinolines and tetrahydroquinolines through Suzuki-Miyaura coupling reactions**

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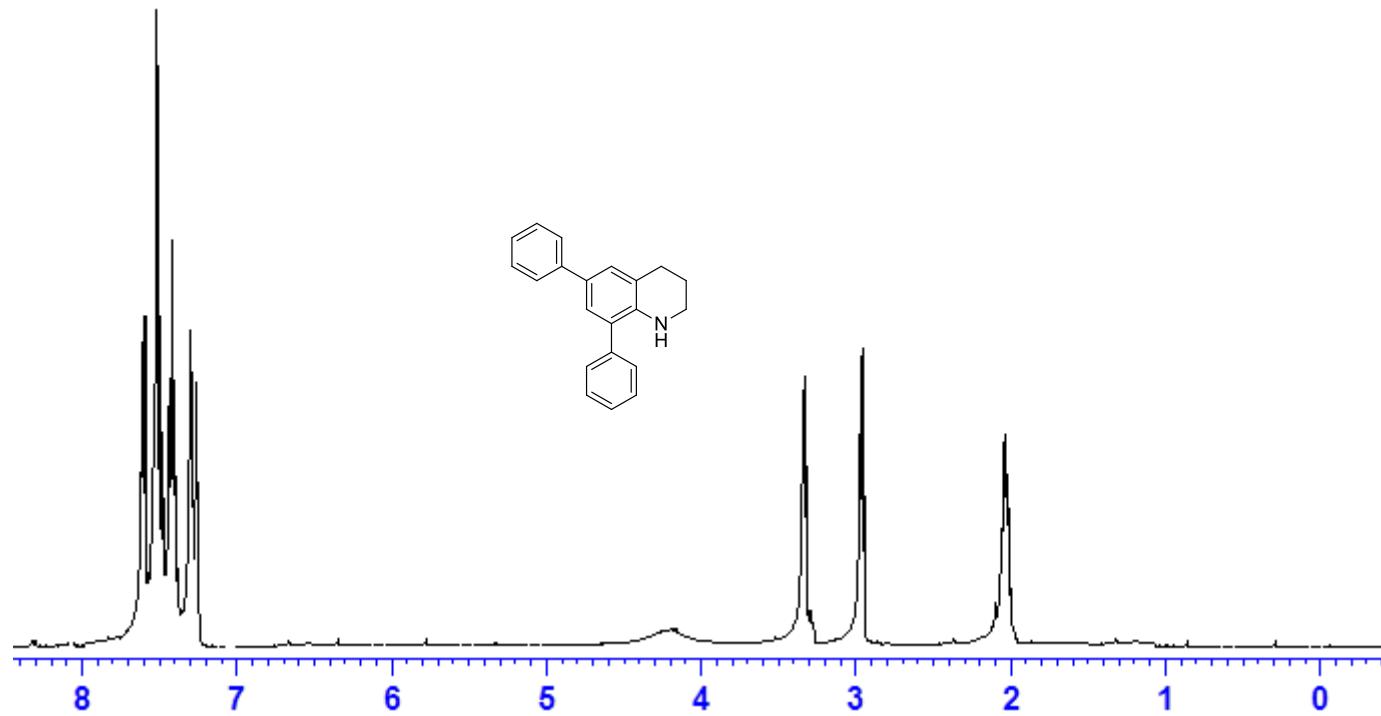


Figure S1.  $^1\text{H}$  NMR Spectrum of 6,8-diphenyl-1,2,3,4-tetrahydroquinoline (14a) (400 MHz, in  $\text{CDCl}_3$ )

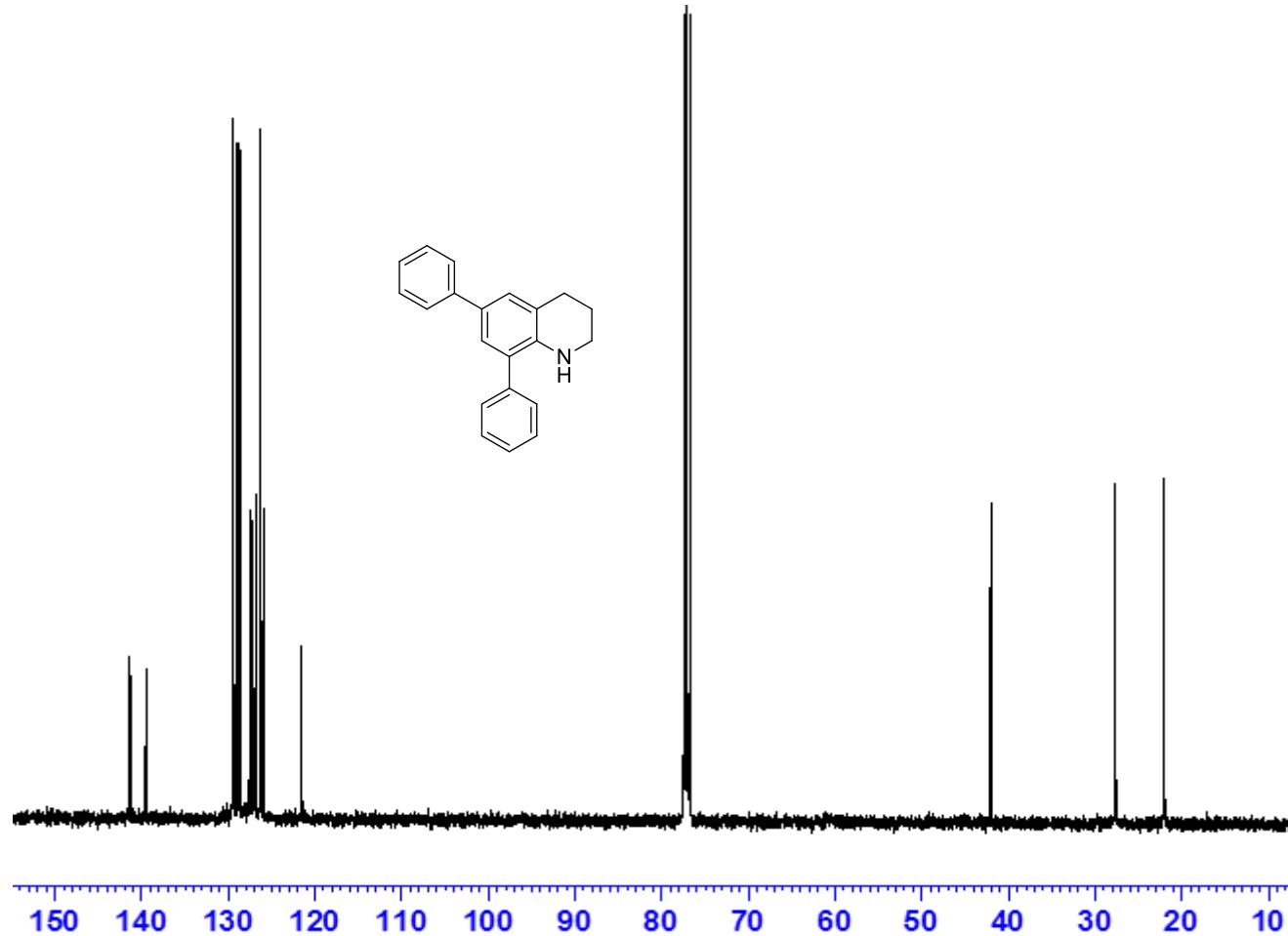


Figure S2. <sup>13</sup>C NMR Spectrum of 6,8-diphenyl-1,2,3,4-tetrahydroquinoline (14a) (100 MHz, in CDCl<sub>3</sub>)

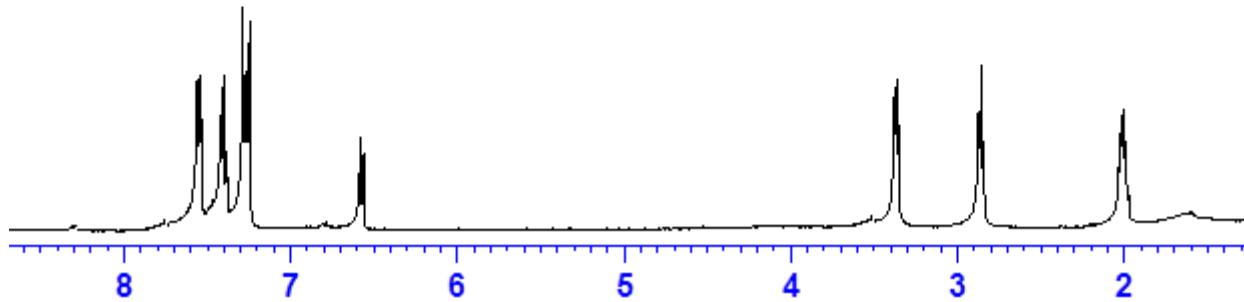
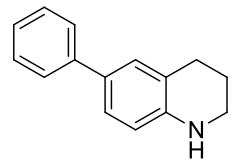


Figure S3.  $^1\text{H}$  NMR Spectrum of 6-phenyl-1,2,3,4-tetrahydroquinoline (13a) (400 MHz, in  $\text{CDCl}_3$ )

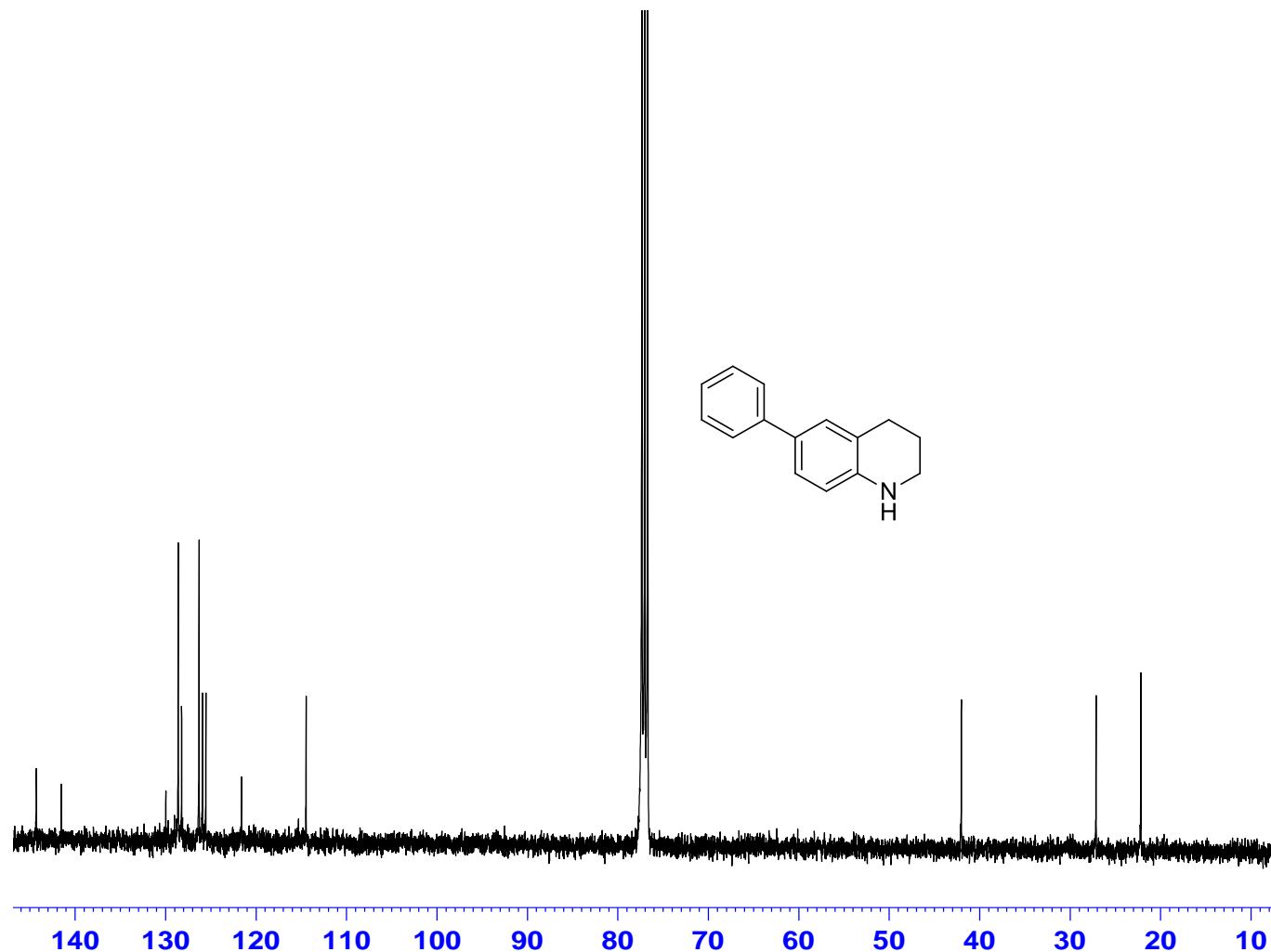
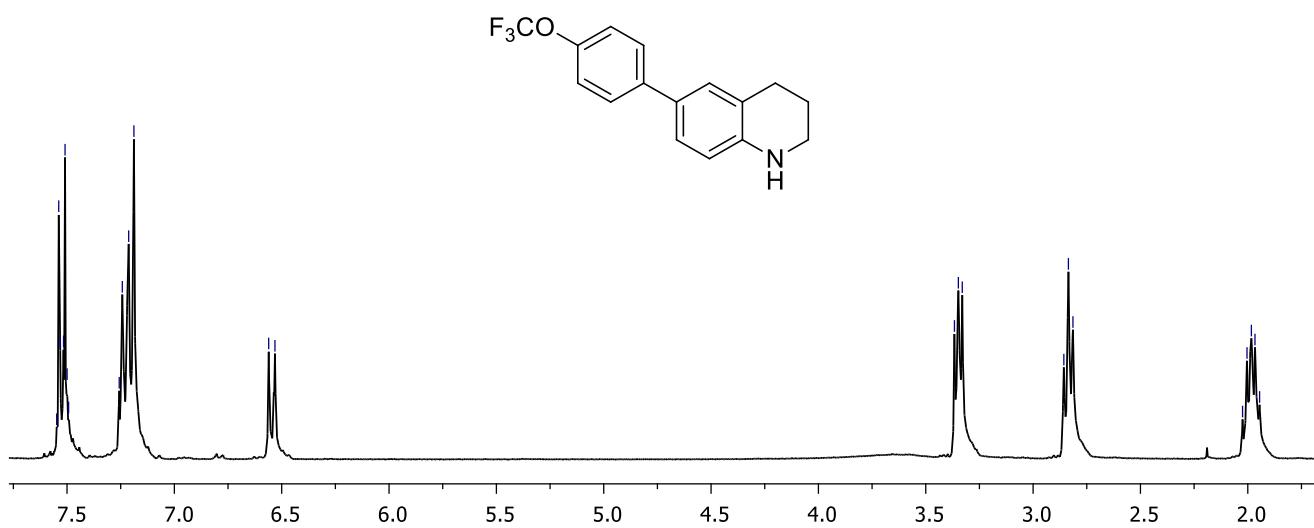
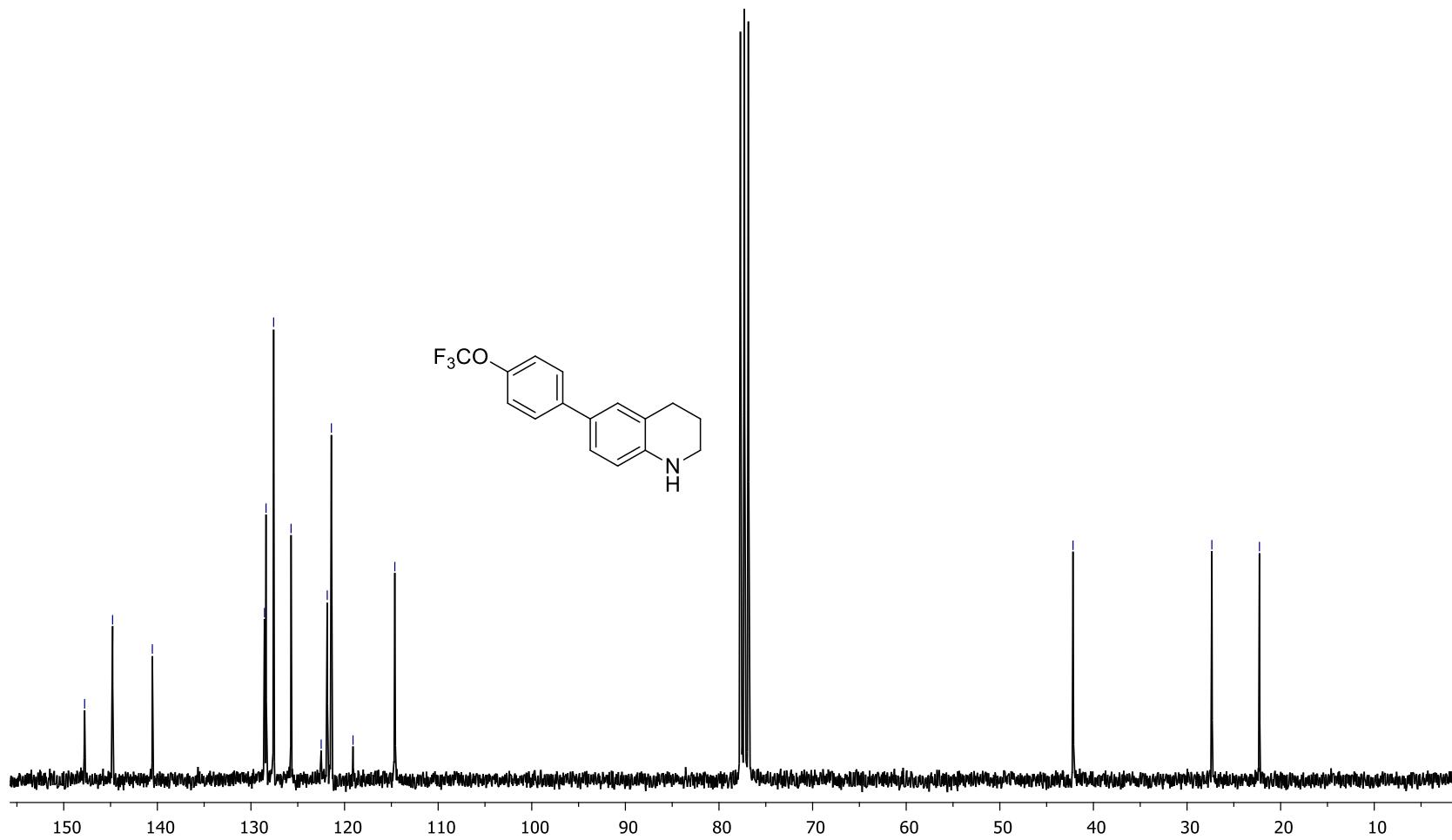


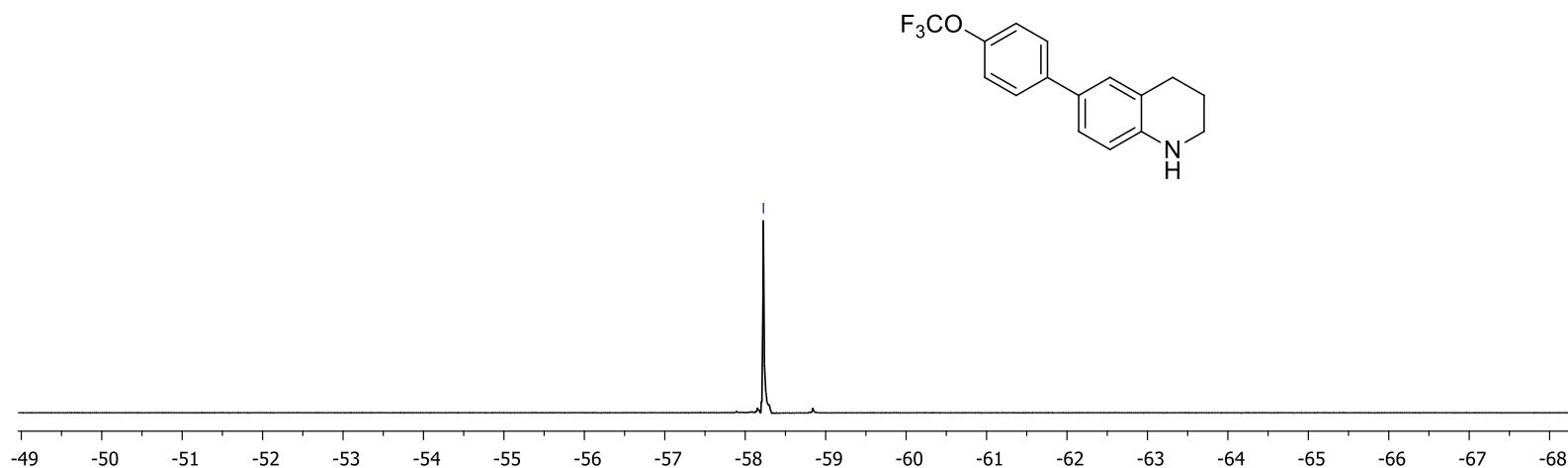
Figure S4. <sup>13</sup>C NMR Spectrum of 6-phenyl-1,2,3,4-tetrahydroquinoline (13a) (100 MHz, in CDCl<sub>3</sub>)



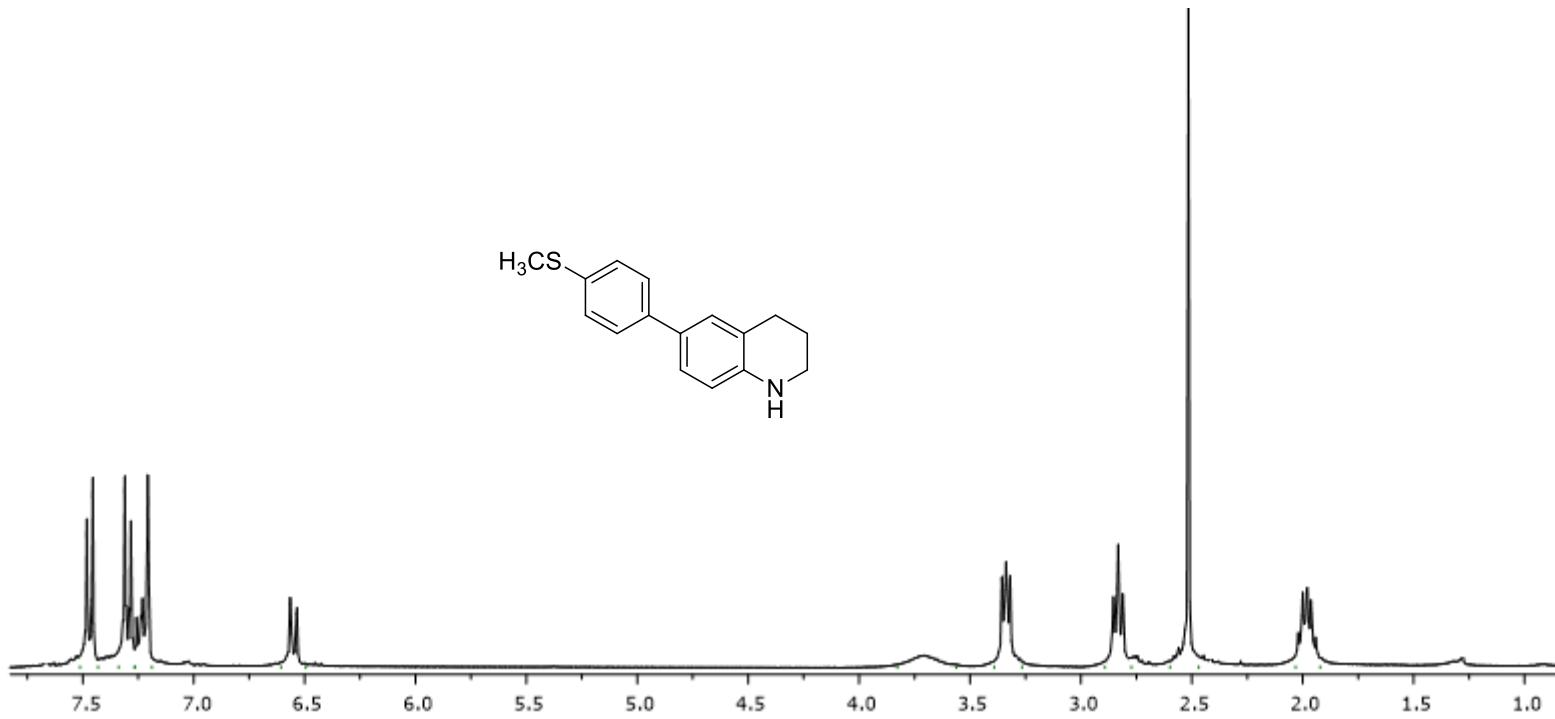
**Figure S5.**  $^1\text{H}$  NMR Spectrum of 6-(4-(trifluoromethoxy)phenyl)-1,2,3,4-tetrahydroquinoline (13b) (300 MHz, in  $\text{CDCl}_3$ )



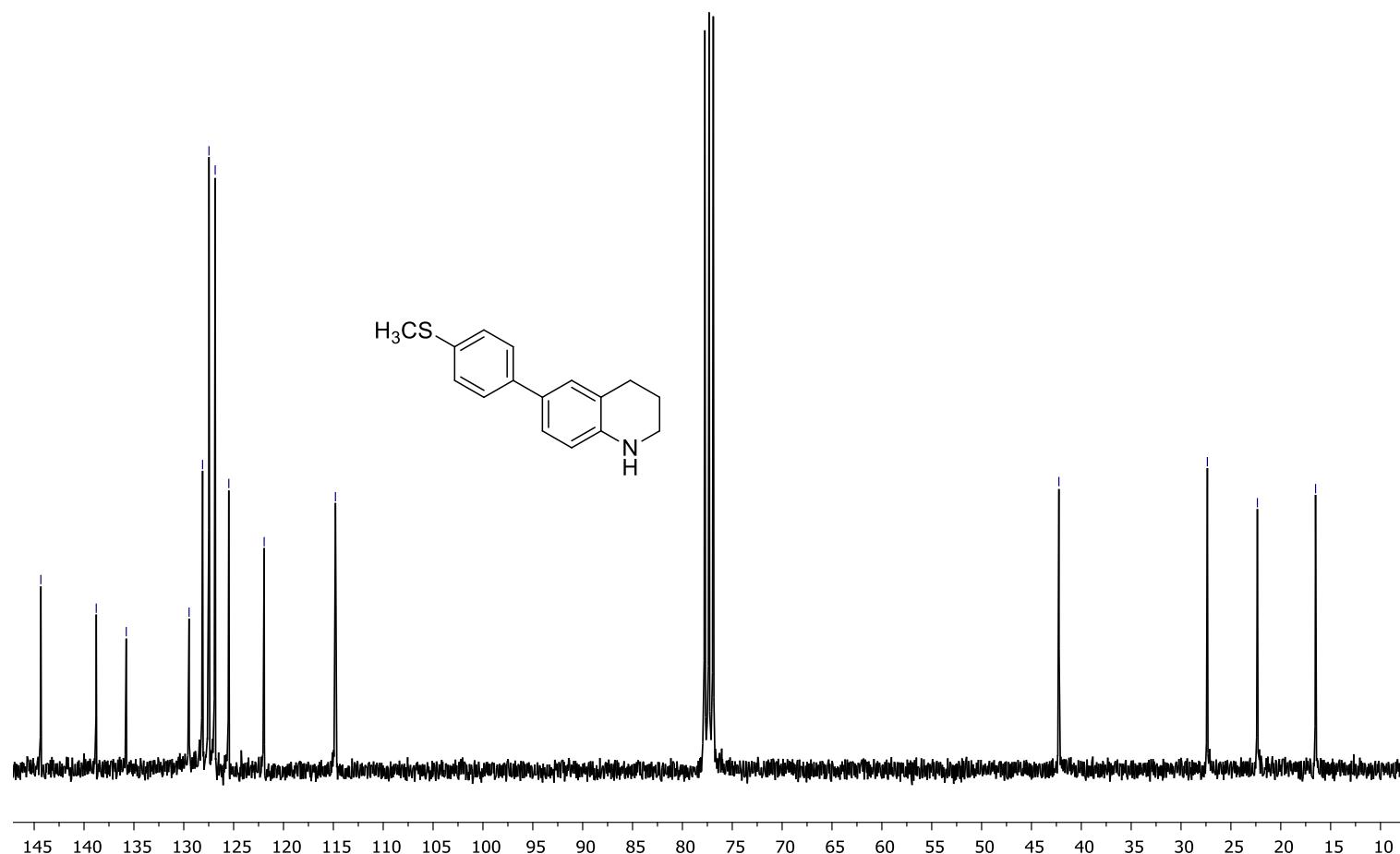
**Figure S6.**  $^{13}\text{C}$  NMR Spectrum of **6-(4-(trifluoromethoxy)phenyl)-1,2,3,4-tetrahydroquinoline (13b)** (75 MHz, in  $\text{CDCl}_3$ )



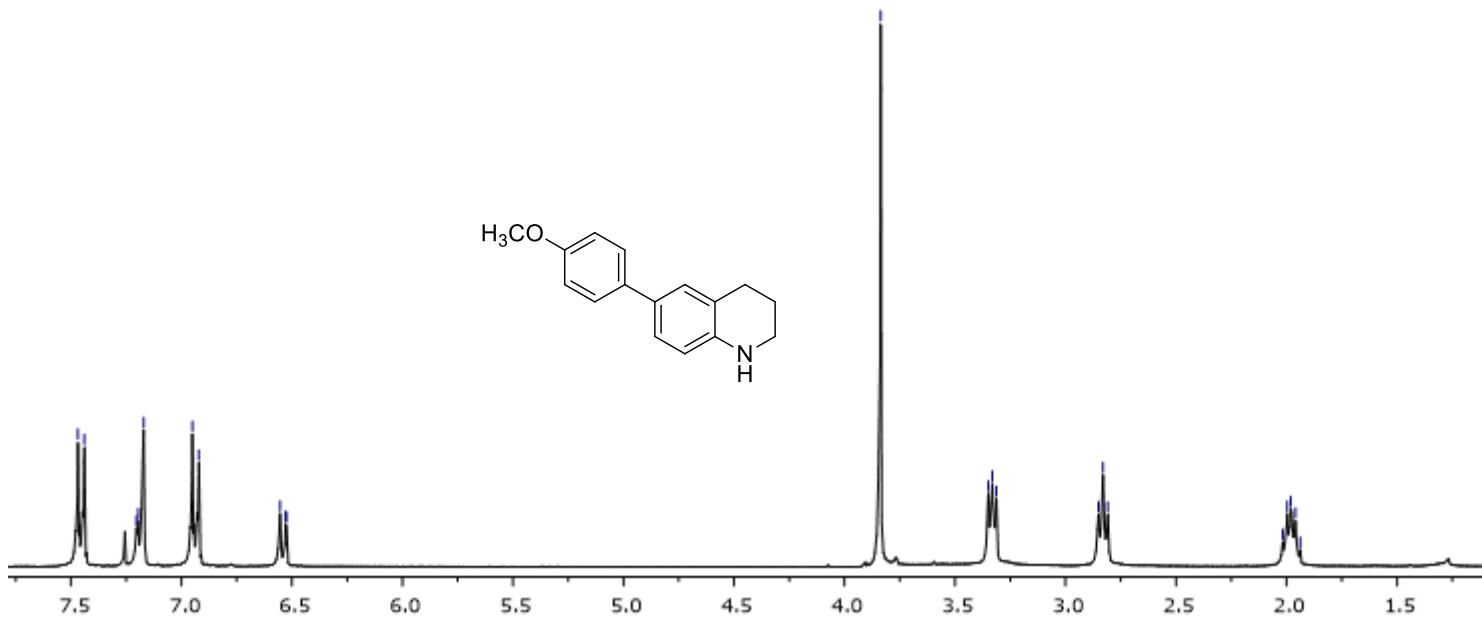
**Figure S7.** <sup>19</sup>F NMR Spectrum of 6-(4-(trifluoromethoxy)phenyl)-1,2,3,4-tetrahydroquinoline (13b) (282 MHz, in  $\text{CDCl}_3$ )



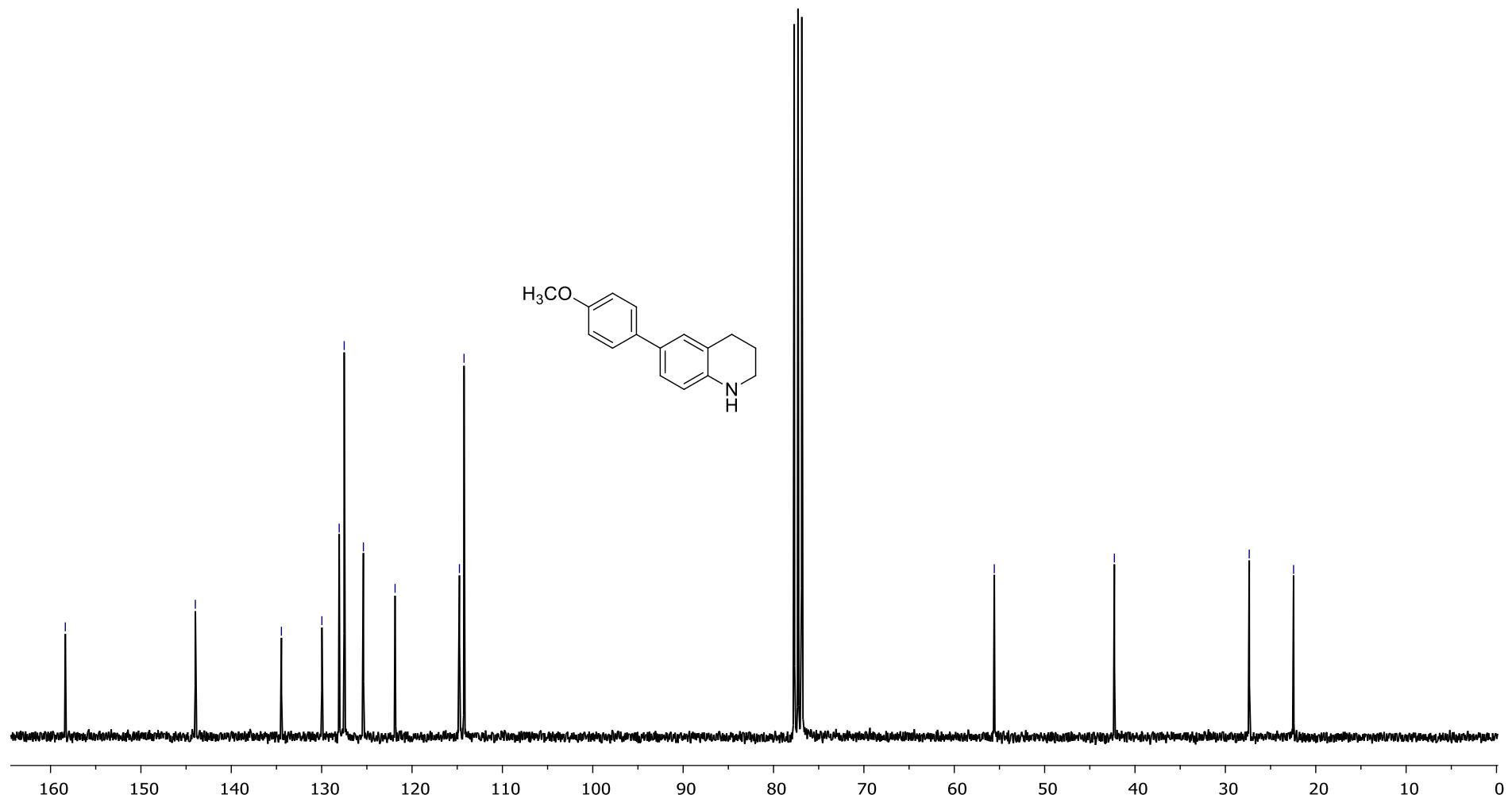
**Figure S8.** <sup>1</sup>H NMR Spectrum of 6-(4-(methylthio)phenyl)-1,2,3,4-tetrahydroquinoline (13c) (300 MHz, in CDCl<sub>3</sub>)



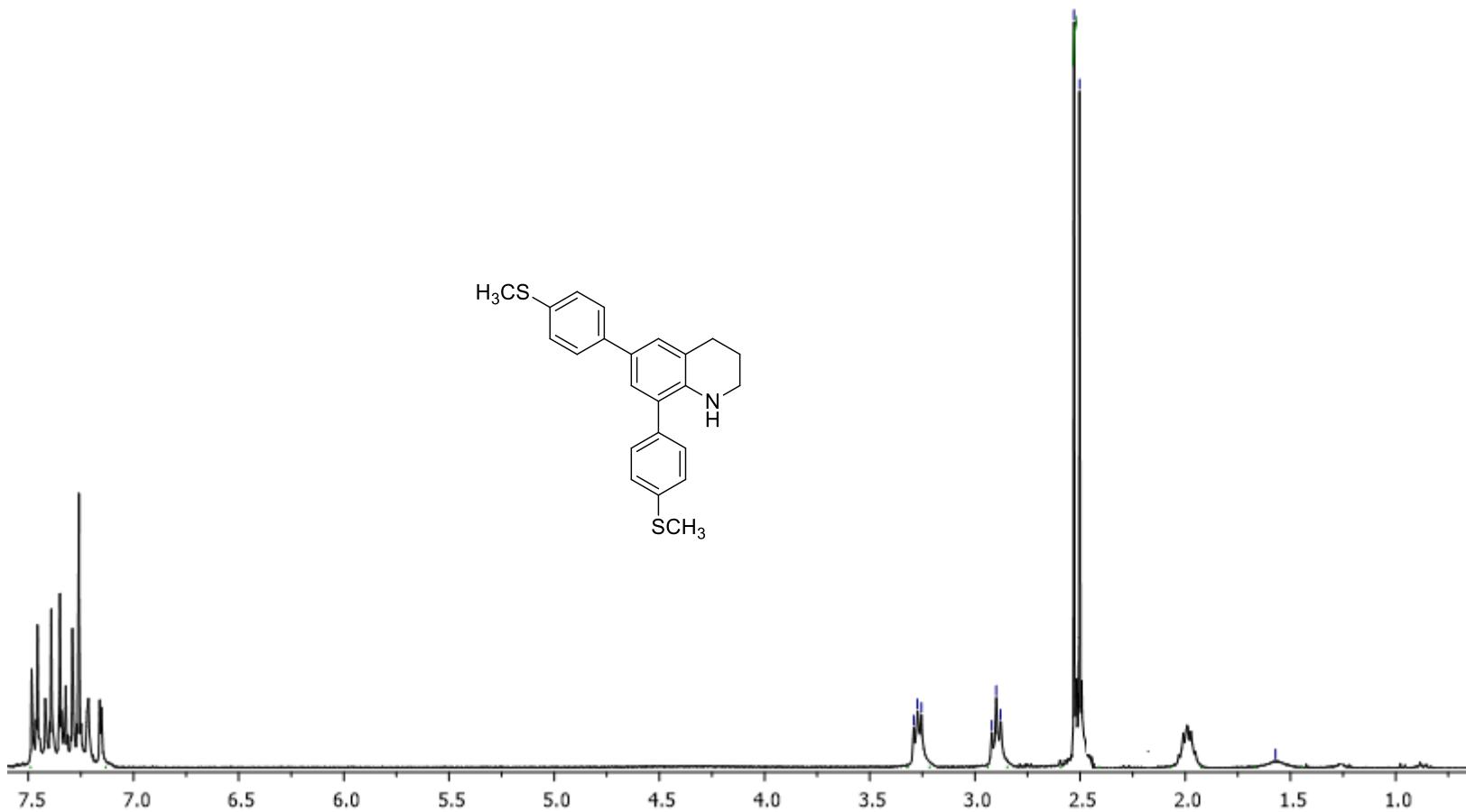
**Figure S9.**  $^{13}\text{C}$  NMR Spectrum of 6-(4-(methylthio)phenyl)-1,2,3,4-tetrahydroquinoline (13c) (75 MHz, in  $\text{CDCl}_3$ )



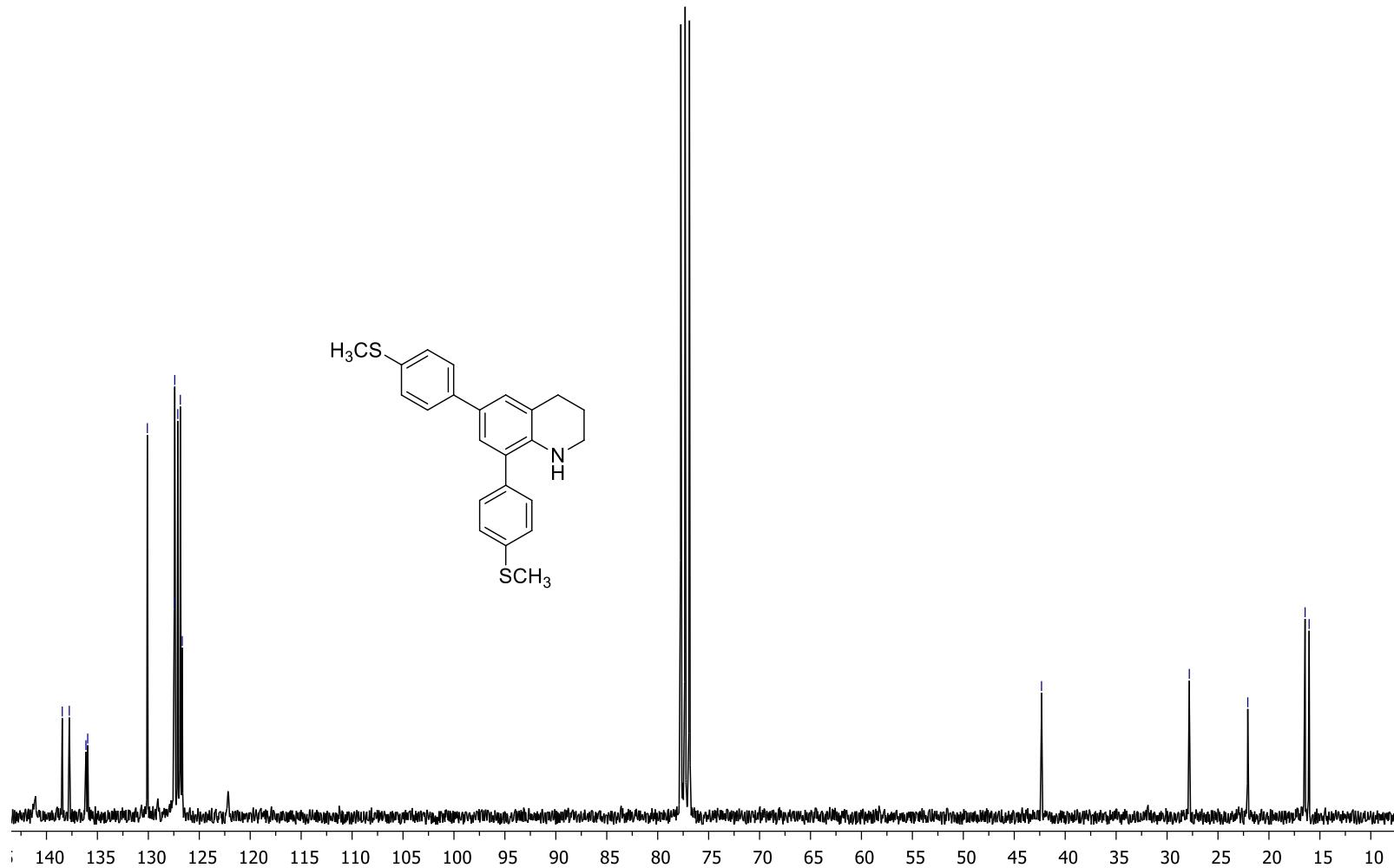
**Figure S10.**  $^1\text{H}$  NMR Spectrum of 6-(4-(methoxy)phenyl)-1,2,3,4-tetrahydroquinoline (13d) (300 MHz, in  $\text{CDCl}_3$ )



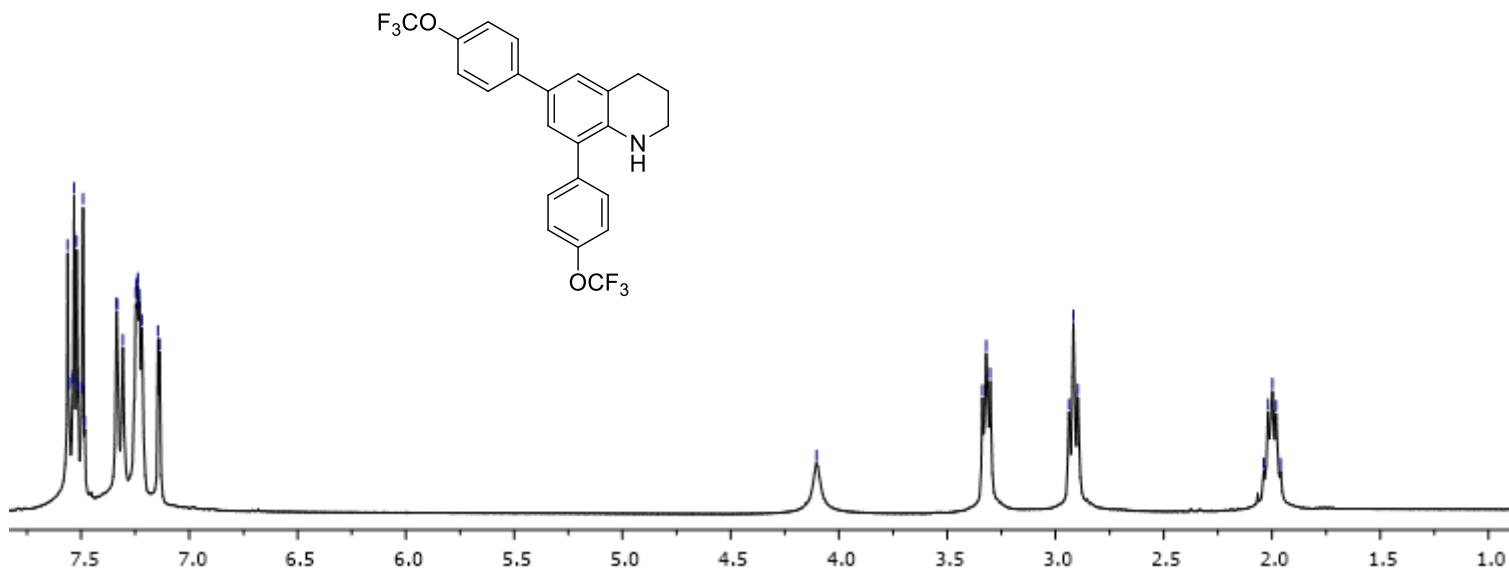
**Figure S11.**  $^{13}\text{C}$  NMR Spectrum of 6-(4-(methoxy)phenyl)-1,2,3,4-tetrahydroquinoline (**13d**) (75 MHz, in  $\text{CDCl}_3$ )



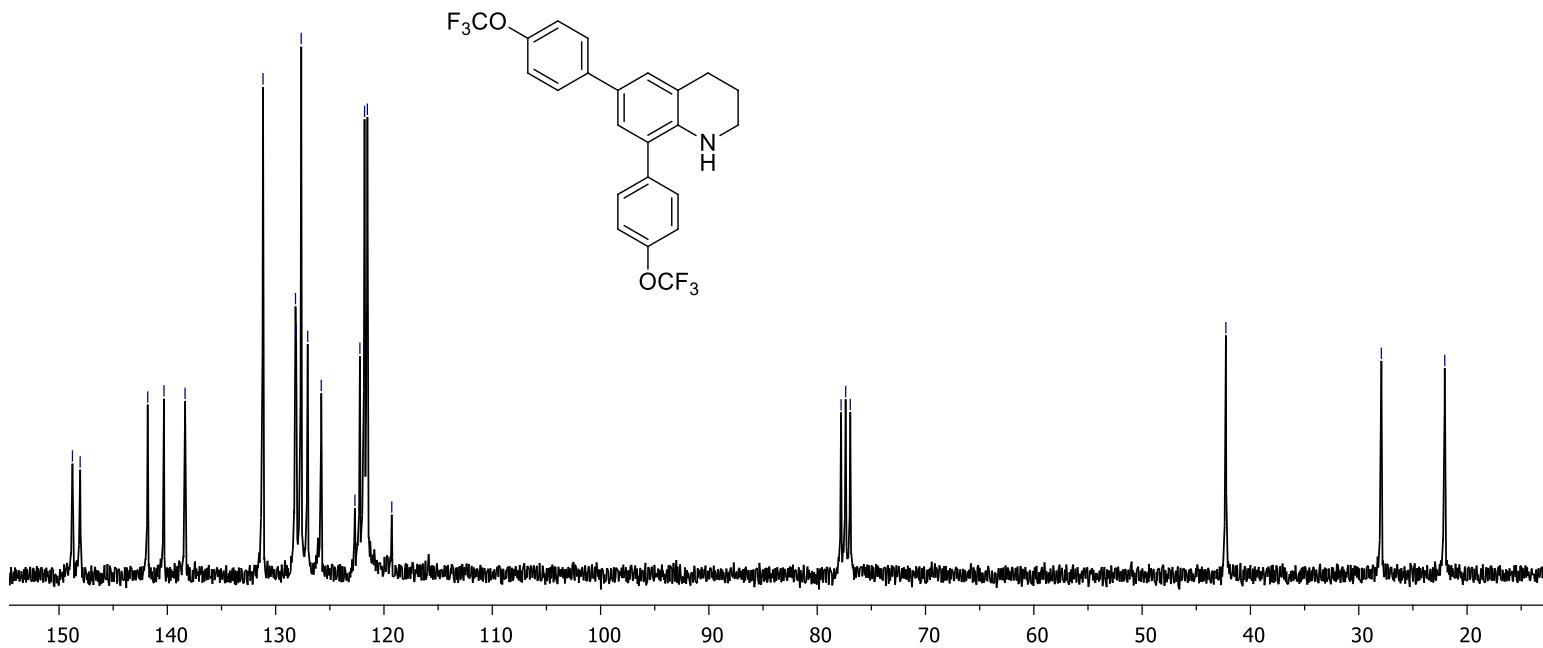
**Figure S12.**  $^1\text{H}$  NMR Spectrum of 6,8-bis(4-(methylthio)phenyl)-1,2,3,4-tetrahydroquinoline (**14c**) (300 MHz, in  $\text{CDCl}_3$ )



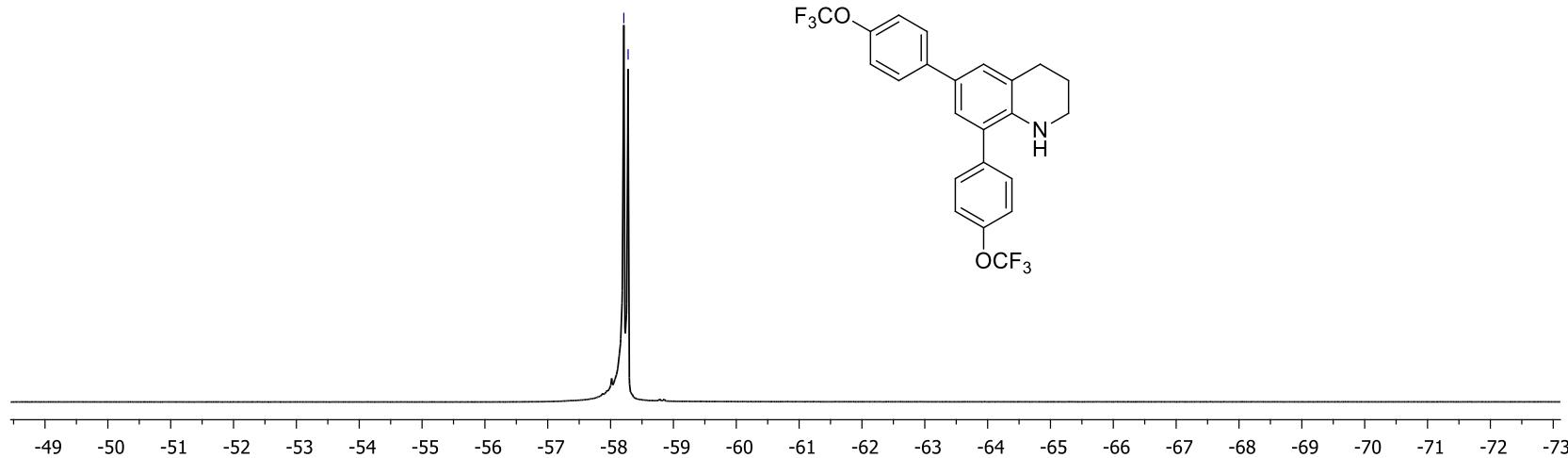
**Figure S13.**  $^{13}\text{C}$  NMR Spectrum of 6,8-bis(4-(methylthio)phenyl)-1,2,3,4-tetrahydroquinoline (**14c**) (75 MHz, in CDCl<sub>3</sub>)



**Figure S14.**  $^1\text{H}$  NMR Spectrum of 6,8-bis(4-(trifluoromethoxy)phenyl)-1,2,3,4-tetrahydroquinoline (14b) (300 MHz, in  $\text{CDCl}_3$ )



**Figure S15.**  $^{13}\text{C}$  NMR Spectrum of 6,8-bis(4-(trifluoromethoxy)phenyl)-1,2,3,4-tetrahydroquinoline (14b) (75 MHz, in  $\text{CDCl}_3$ )



**Figure S16.** <sup>19</sup>F NMR Spectrum of 6,8-bis(4-(trifluoromethoxy)phenyl)-1,2,3,4-tetrahydroquinoline (**14b**) (282 MHz, in CDCl<sub>3</sub>)

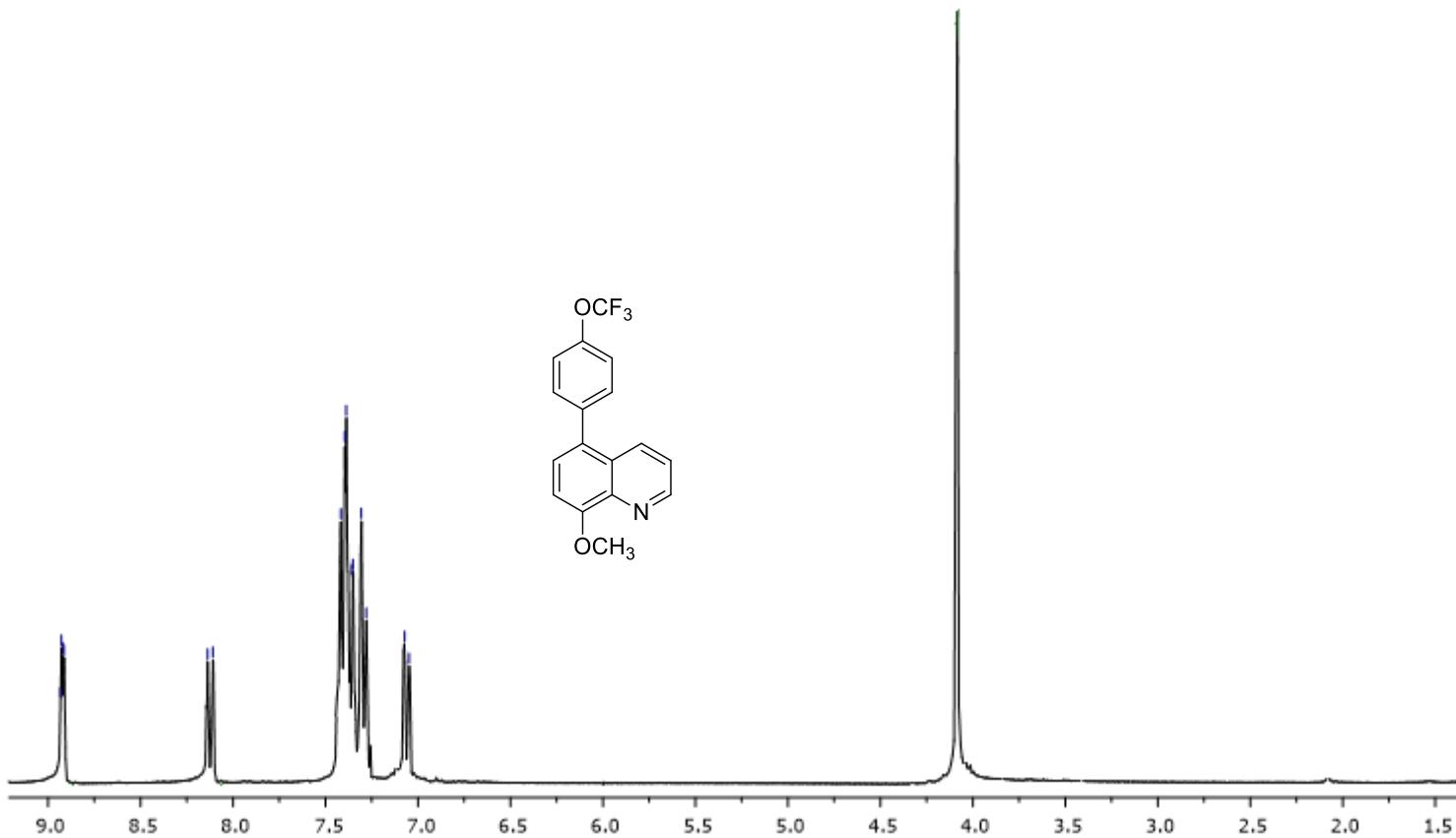
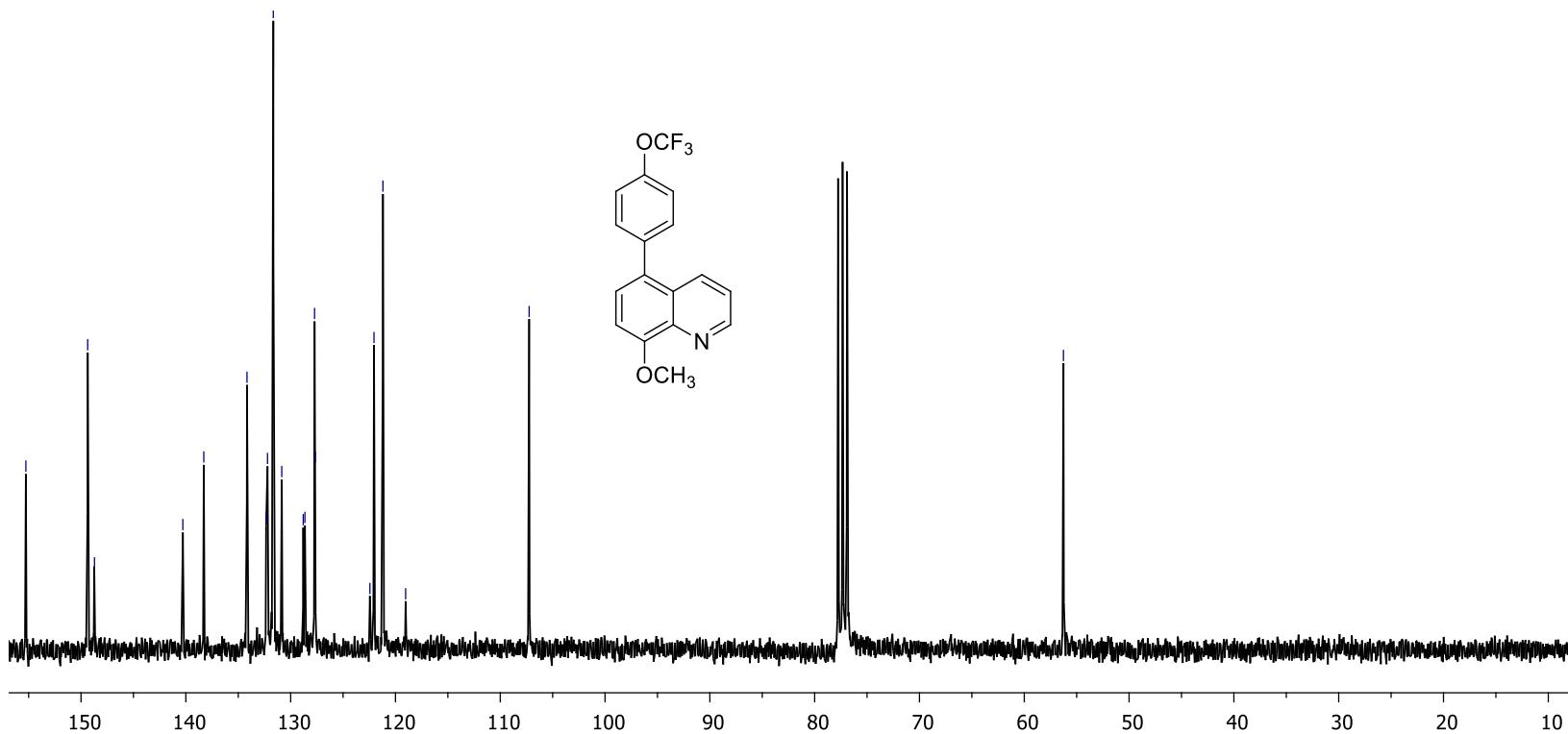
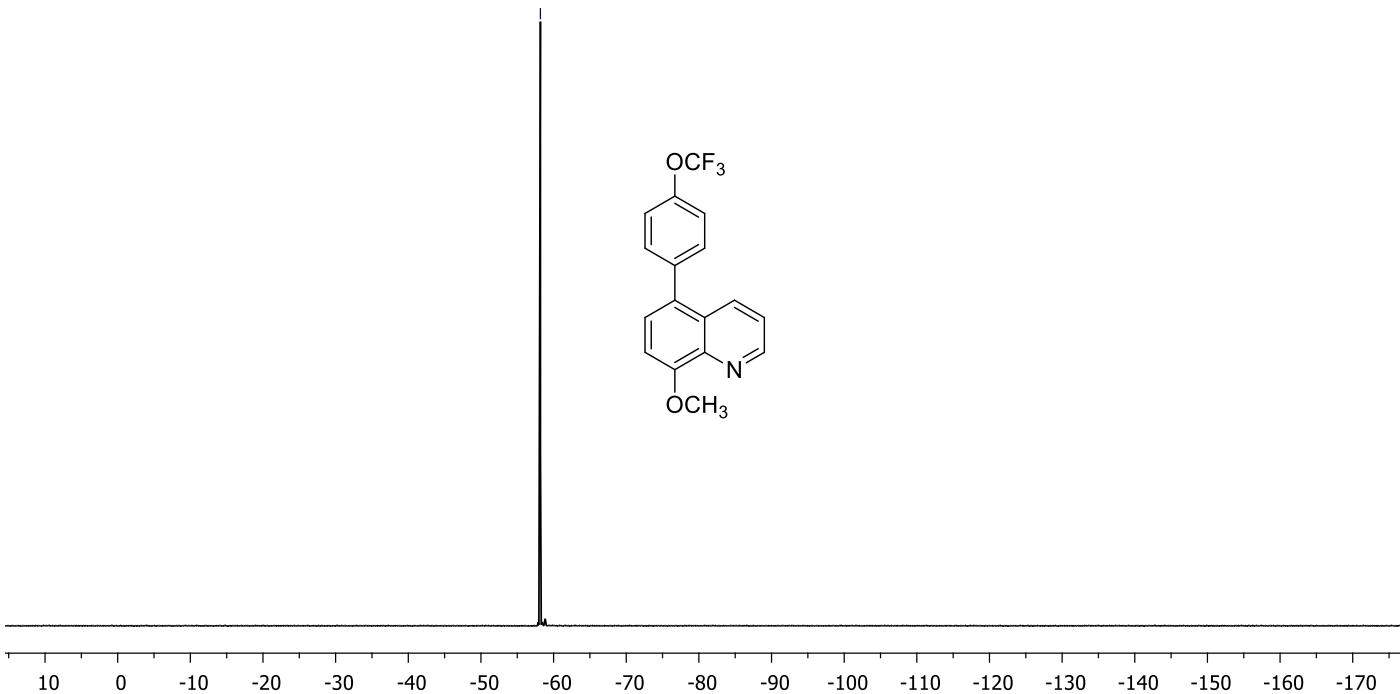


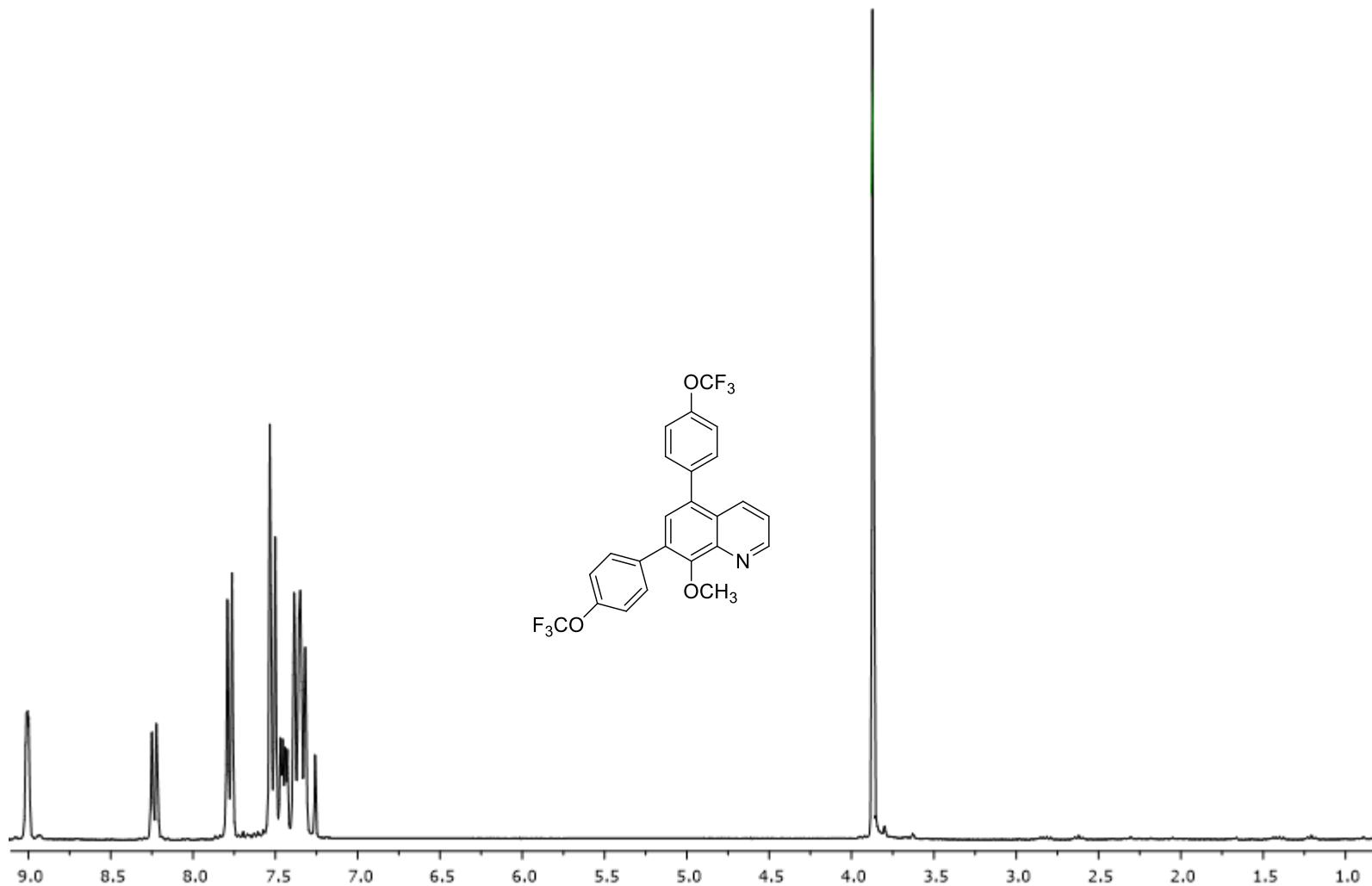
Figure S17. <sup>1</sup>H NMR Spectrum of 8-methoxy-5-(4-(trifluoromethoxy)phenyl)quinoline (15) (300 MHz, in CDCl<sub>3</sub>)



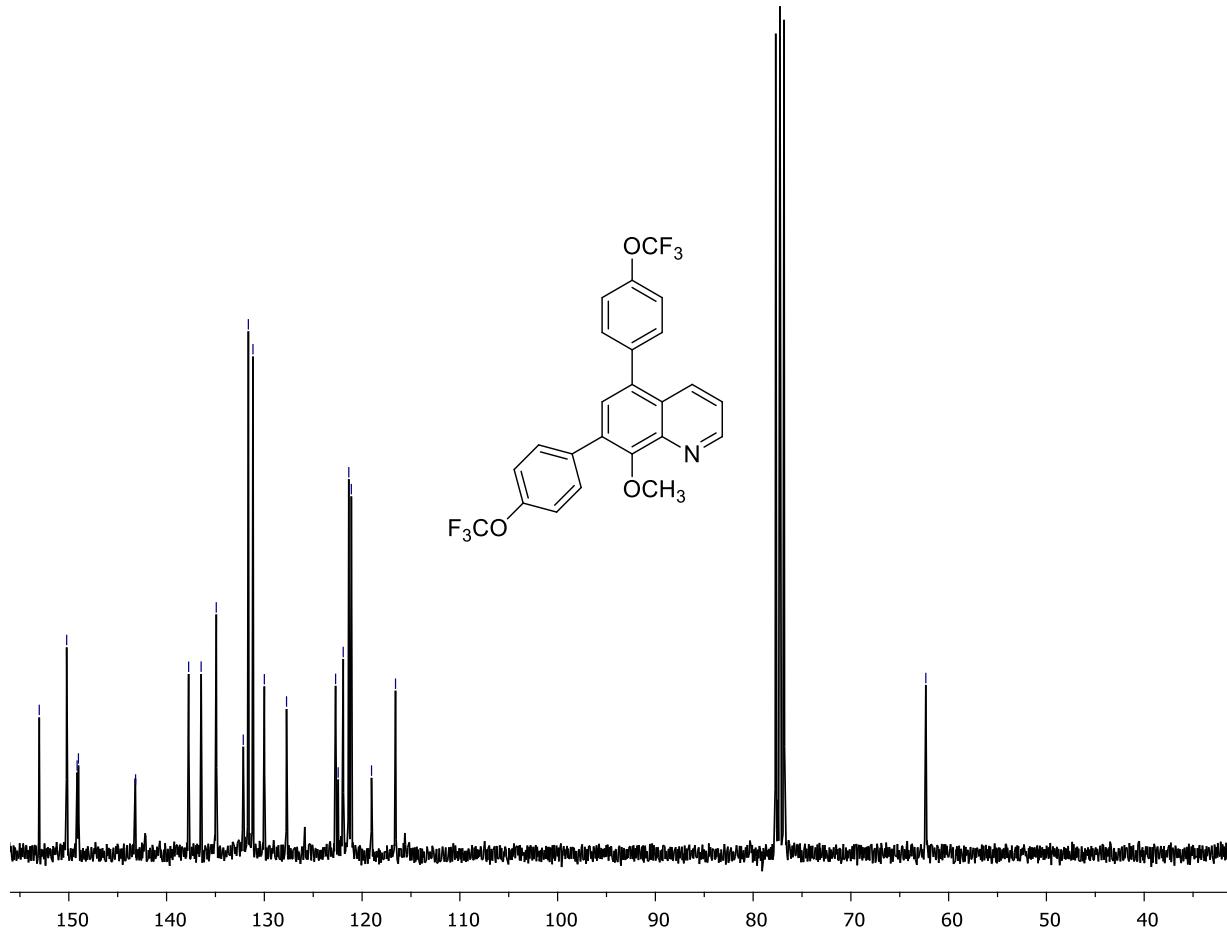
**Figure S18.**  $^{13}\text{C}$  NMR Spectrum of 8-methoxy-5-(4-(trifluoromethoxy)phenyl)quinoline (15) (75 MHz, in  $\text{CDCl}_3$ )



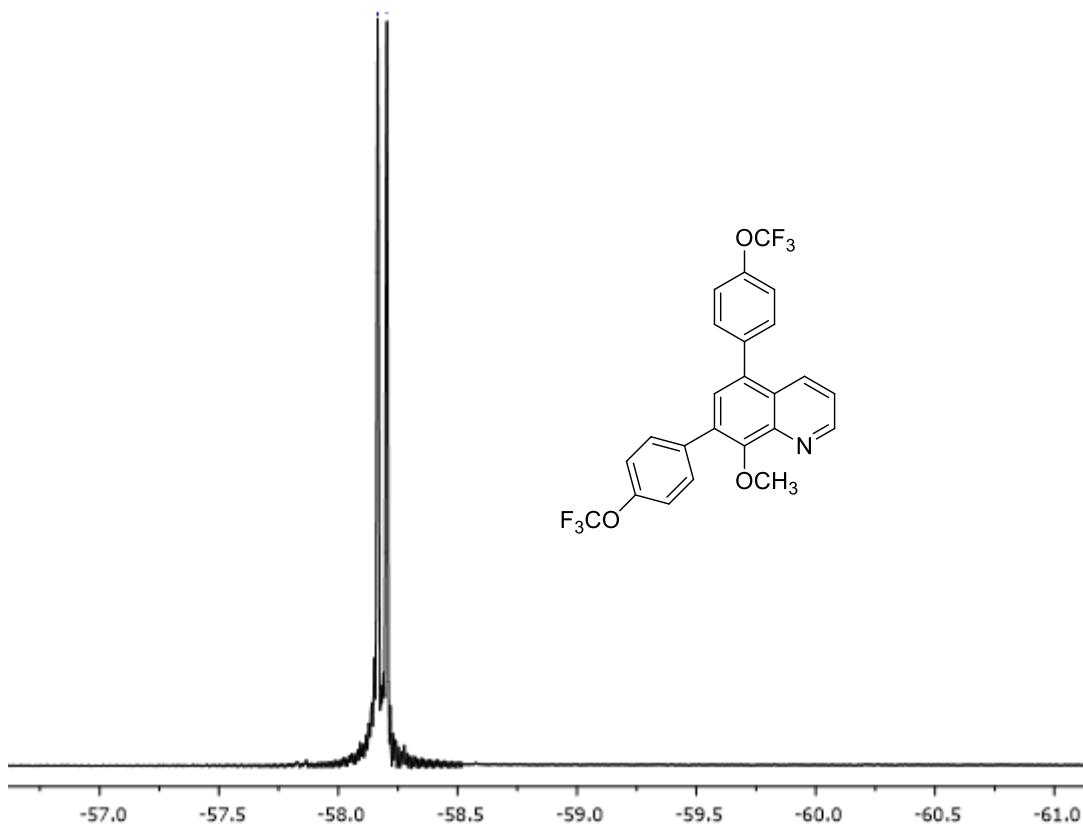
**Figure S19.** <sup>19</sup>F NMR Spectrum of 8-methoxy-5-(4-(trifluoromethoxy)phenyl)quinoline (**15**) (282 MHz, in CDCl<sub>3</sub>)



**Figure S20.**  $^1\text{H}$  NMR Spectrum of 8-methoxy-5,7-bis(4-(trifluoromethoxy)phenyl)quinoline (**16a**) (300 MHz, in  $\text{CDCl}_3$ )



**Figure S21.**  $^{13}\text{C}$  NMR Spectrum of 8-methoxy-5,7-bis(4-(trifluoromethoxy)phenyl)quinoline (**16a**) (75 MHz, in CDCl<sub>3</sub>)



**Figure S22.**  $^{19}\text{F}$  NMR Spectrum of 8-methoxy-5,7-bis(4-(trifluoromethoxy)phenyl)quinoline (16a) (282 MHz, in  $\text{CDCl}_3$ )

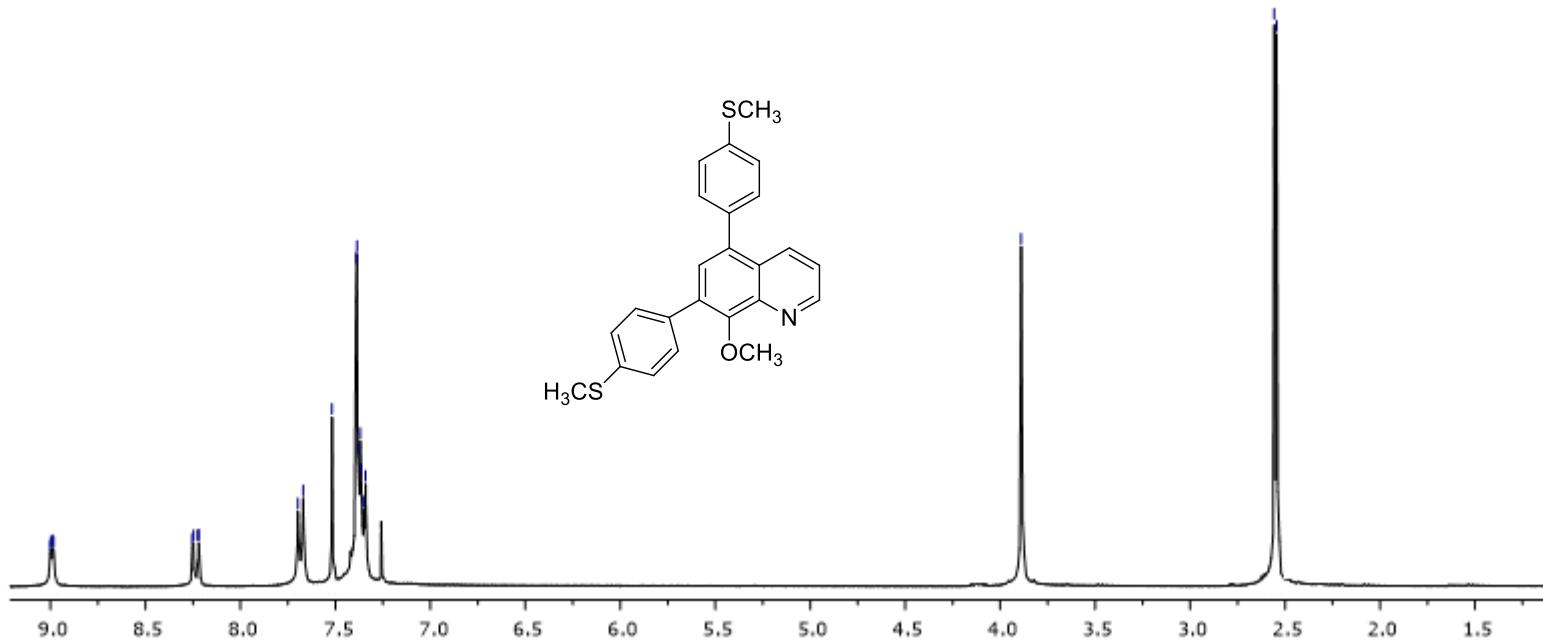
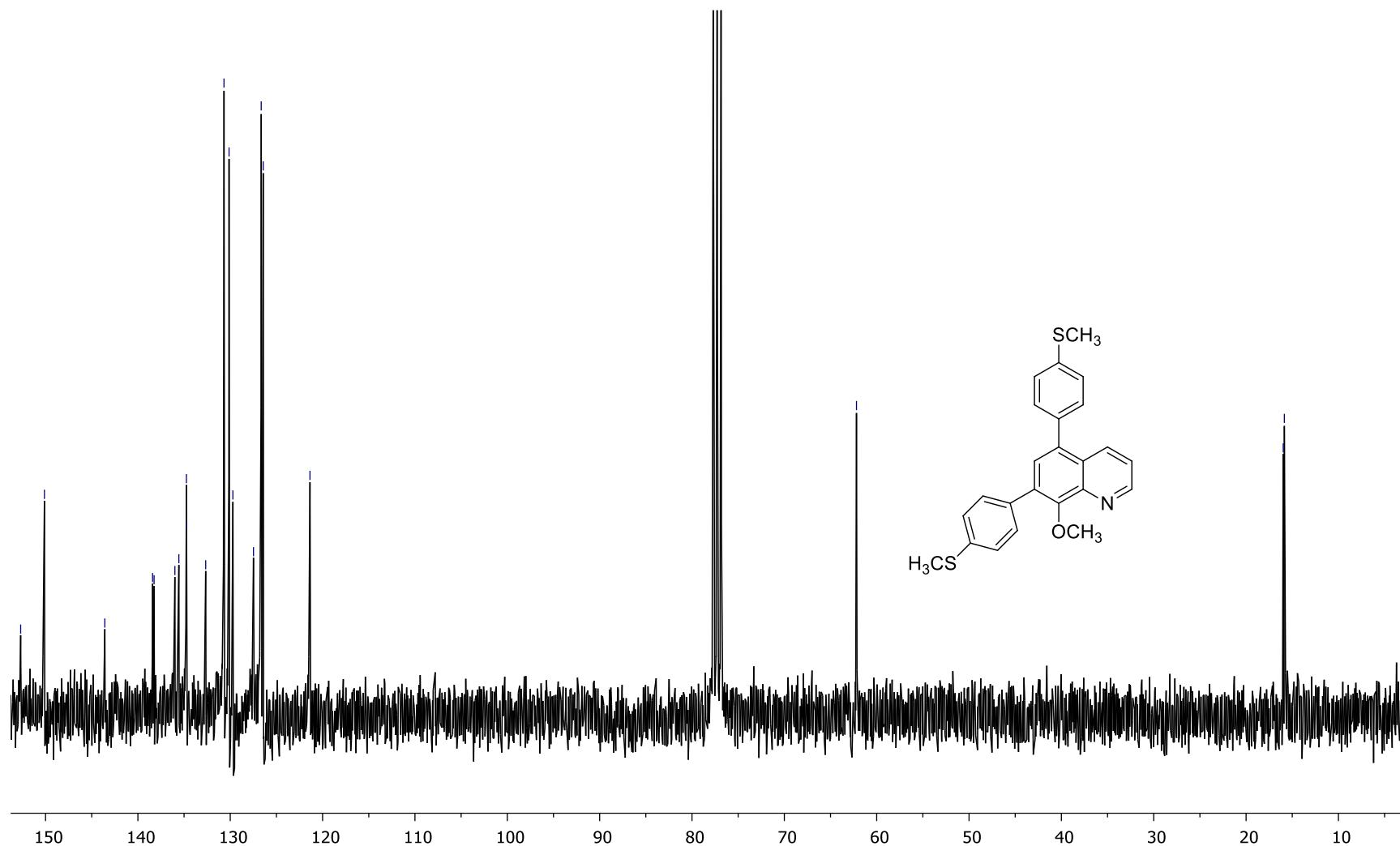


Figure S23.  $^1\text{H}$  NMR Spectrum of 8-methoxy-5,7-bis(4-(methylthio)phenyl)quinoline (**16b**) (300 MHz, in  $\text{CDCl}_3$ )



**Figure S24.**  $^{13}\text{C}$  NMR Spectrum of 8-methoxy-5,7-bis(4-(methylthio)phenyl)quinoline (16b) (75 MHz, in  $\text{CDCl}_3$ )