

Supporting Information

Asymmetric synthesis of amino-benzothiazol derivatives by additions of 2-lithiated benzothiazoles to (*S*)-*N*-*t*-butylsulfinyl-ketimines

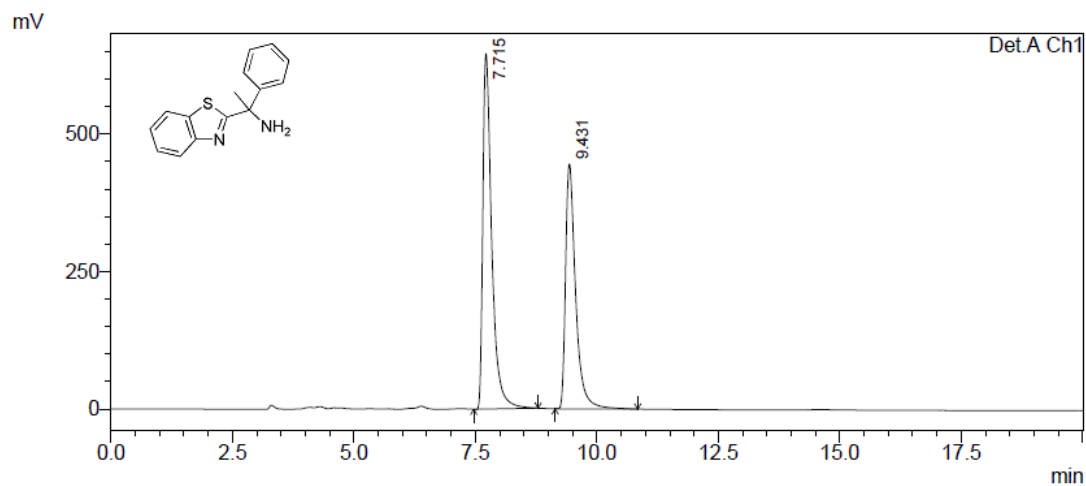
Yanling Dai, Chen Xie, Lingmin Wu, Haibo Mei,* Vadim A. Soloshonok, Jianlin Han,*
and Yi Pan

1. HPLC spectra of compounds 10.....S2
2. NMR spectra of compounds 8, 9 and 10.....S3

1. HPLC spectra of compounds 10

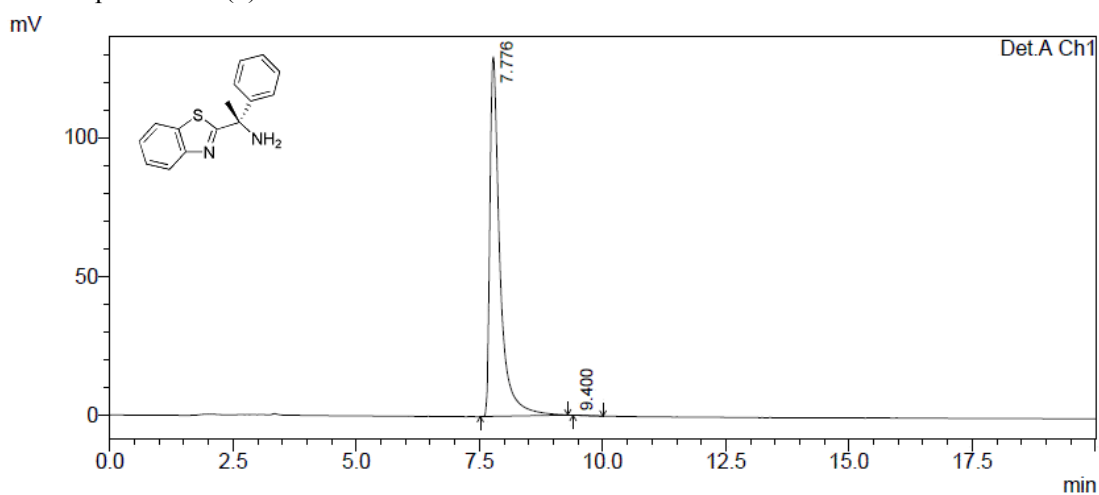
HPLC condition: The enantiomeric ratio was determined by HPLC with a Daicel Chiralpak IA column (Hexane: *i*-PrOH = 90:10, 1.0 mL/min, 254 nm, t_R (major) = 7.7 min, t_R (minor) = 9.4 min.)

HPLC spectrum of racemic 10



Peak#	Ret. Time	Area	Height	Area %	Height %
1	7.715	8255613	646552	56.313	59.199
2	9.431	6404495	445624	43.687	40.801
Total		14660108	1092176	100.000	100.000

HPLC spectrum of (*S*)-10

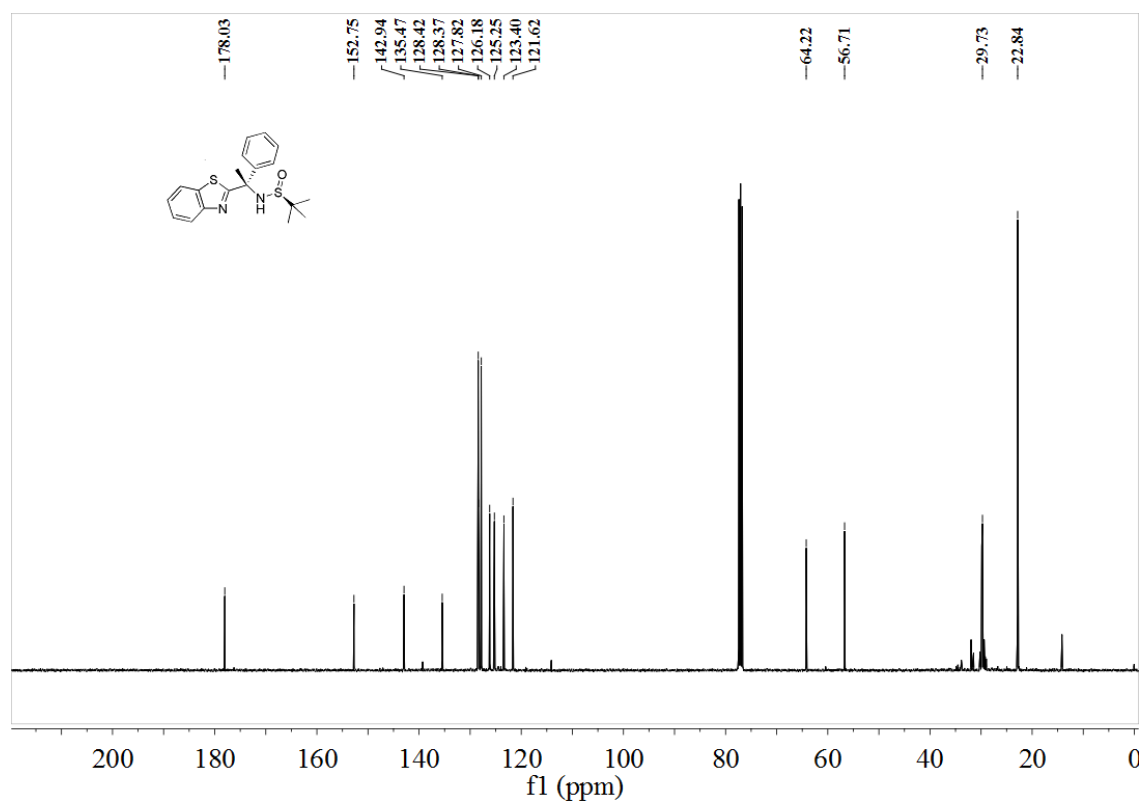
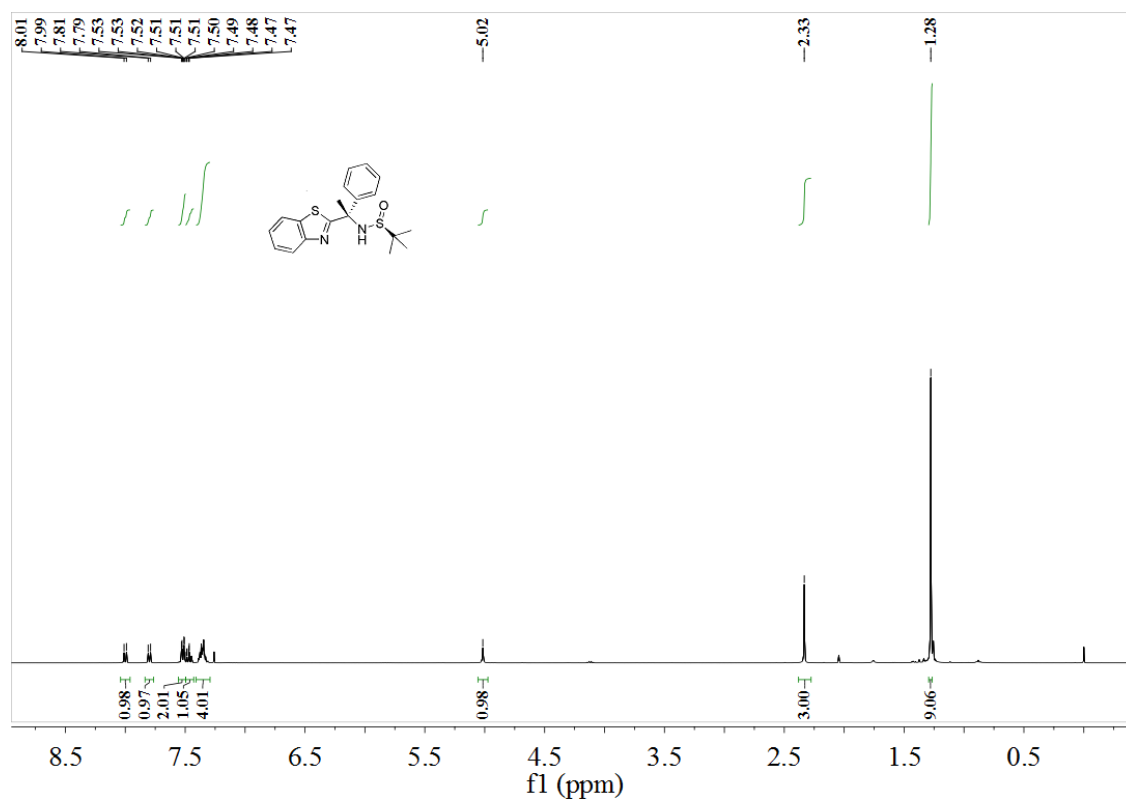


Peak#	Ret. Time	Area	Height	Area %	Height %
1	7.776	1846671	129648	100.021	100.000
2	9.400	-380	0	-0.021	0.000
Total		1846291	129648	100.000	100.000

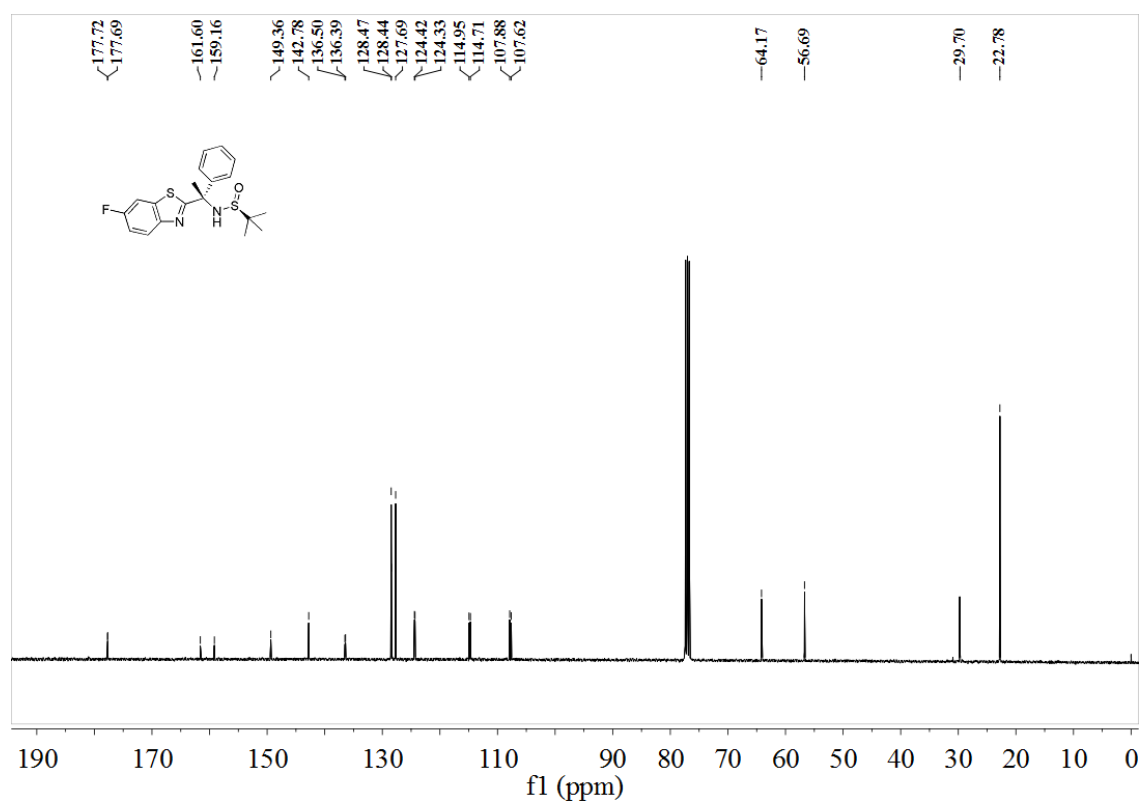
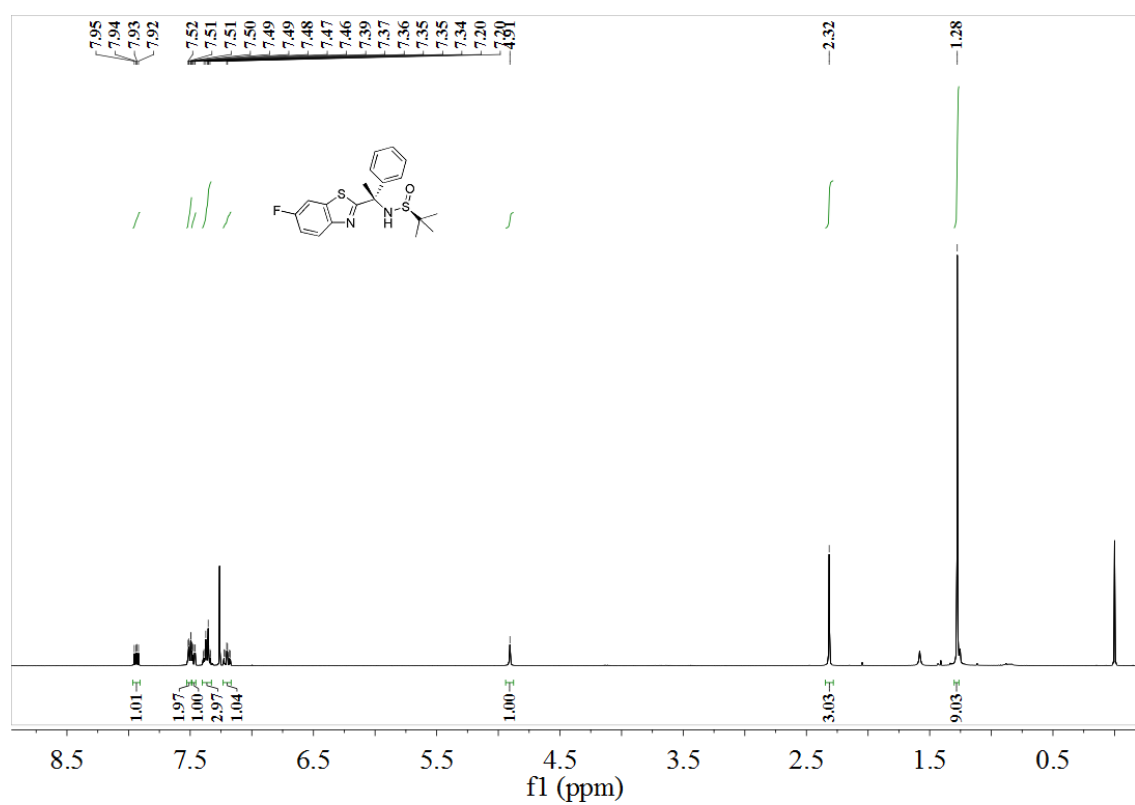
The 100% ee was found of (*S*)-10

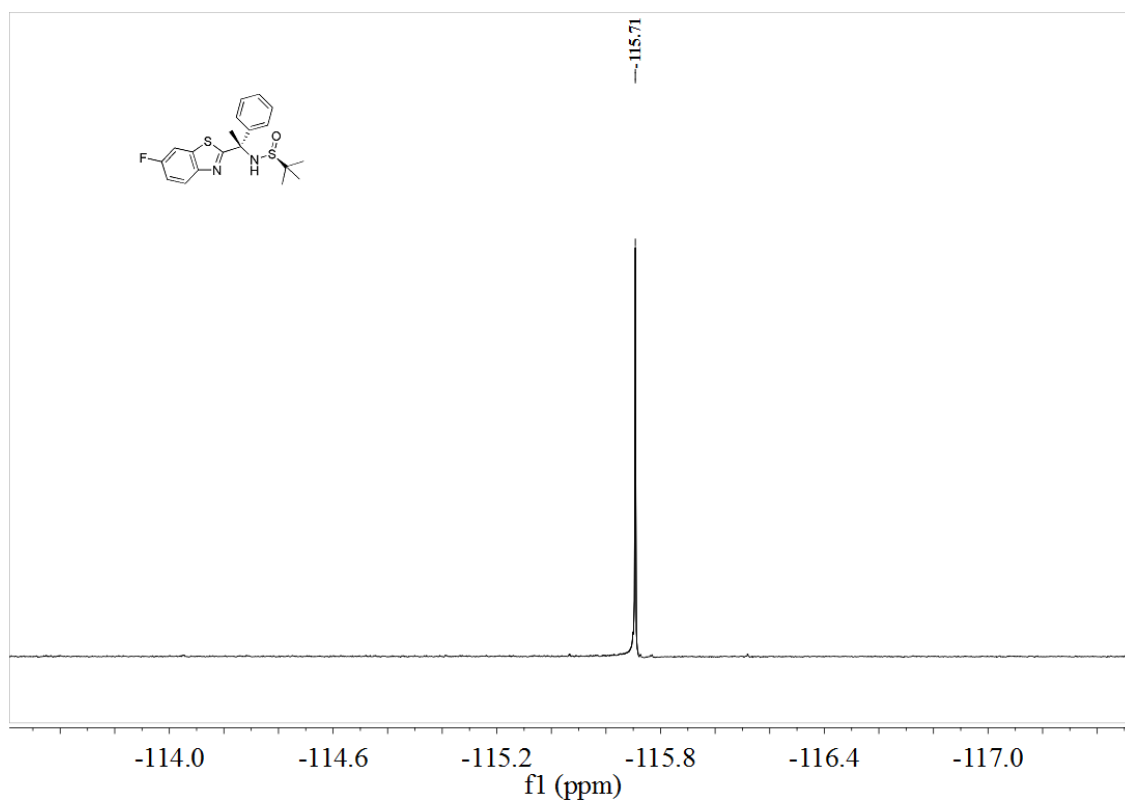
2. NMR spectra of compounds 8, 9 and 10

^1H NMR and ^{13}C NMR R of 8a

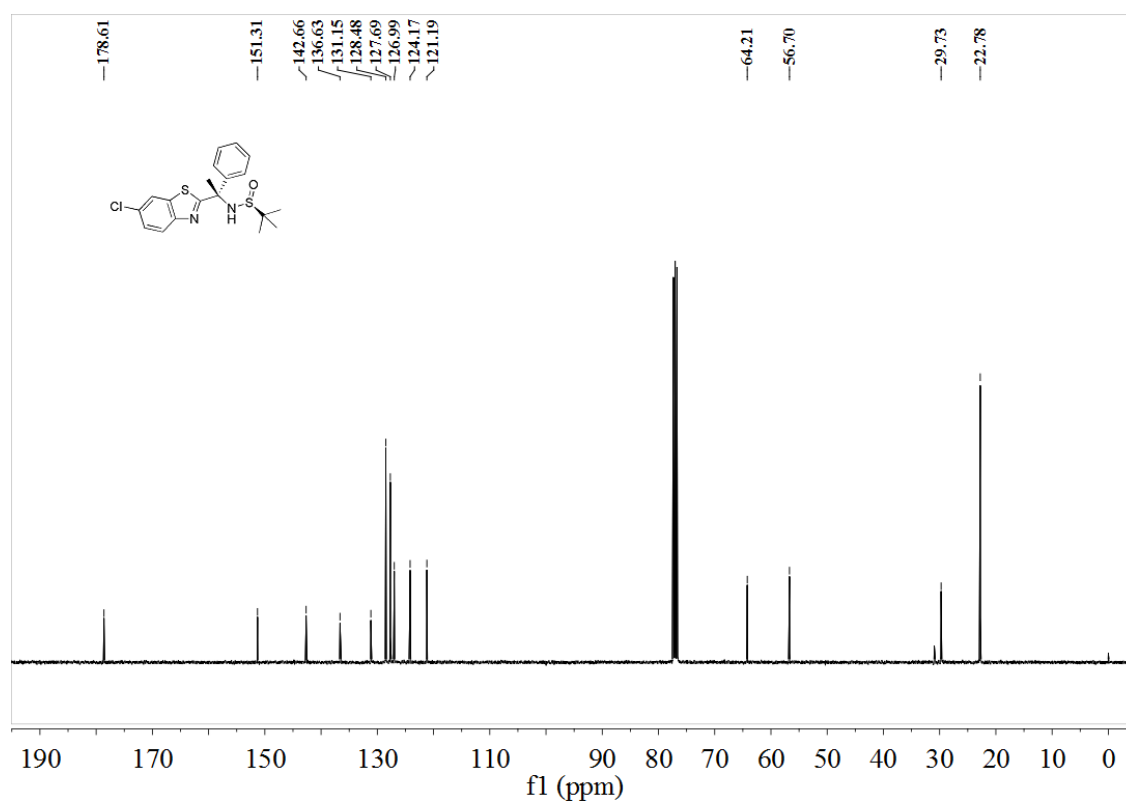
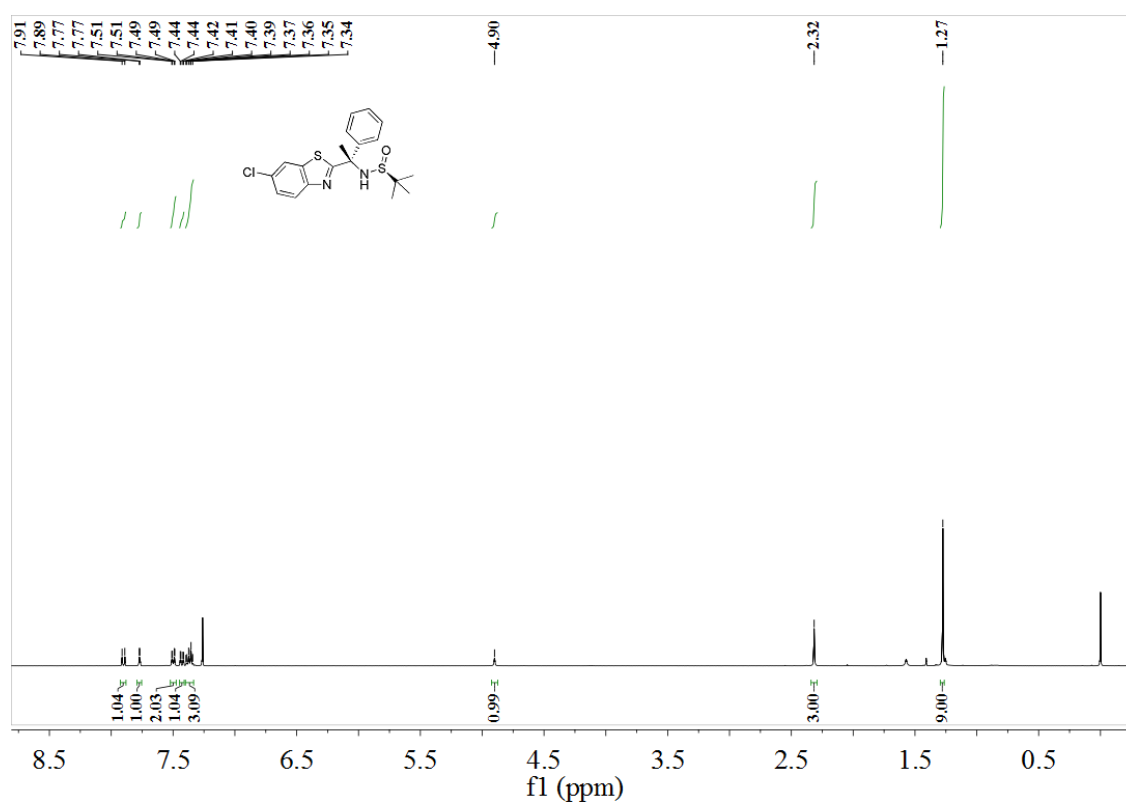


^1H NMR, ^{13}C NMR and ^{19}F NMR of **8b**

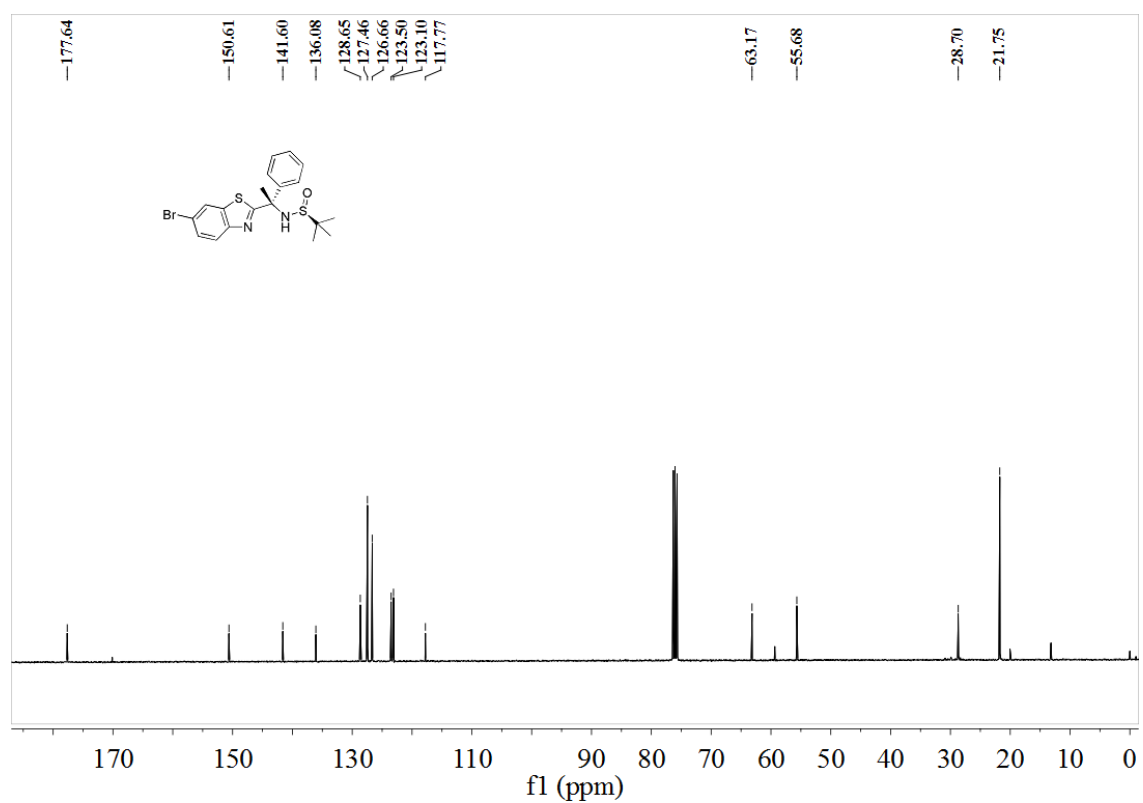
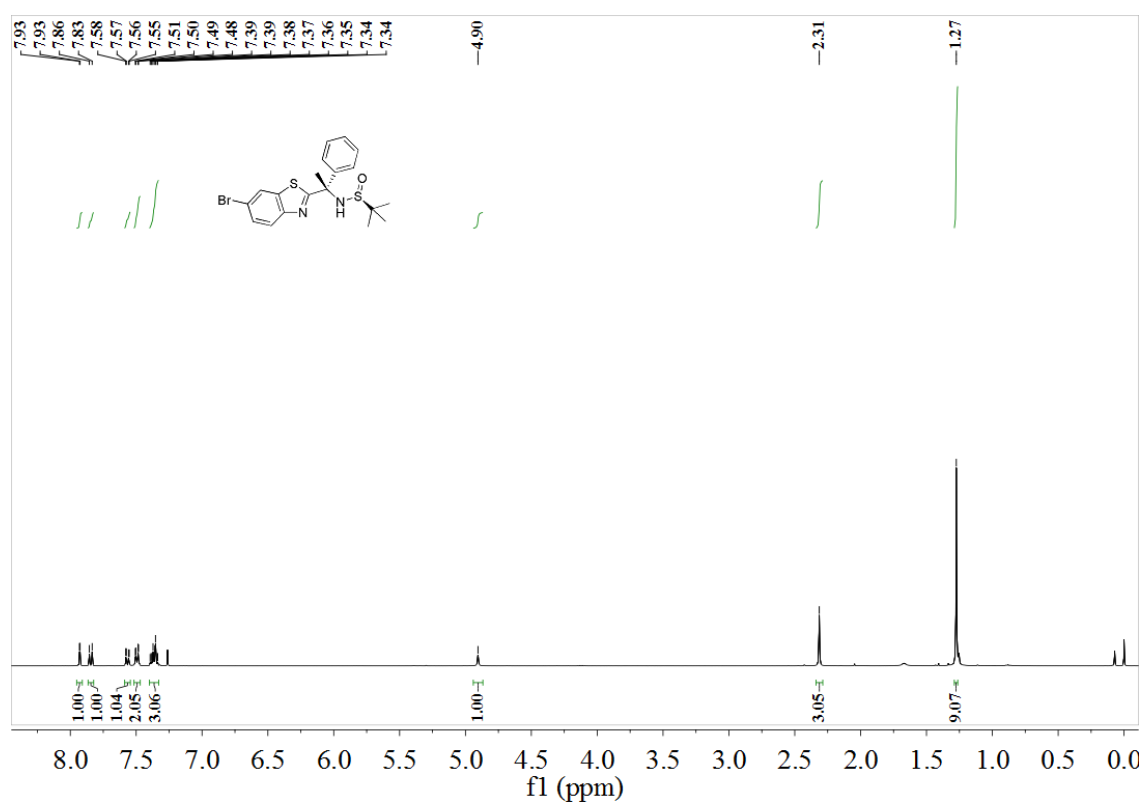




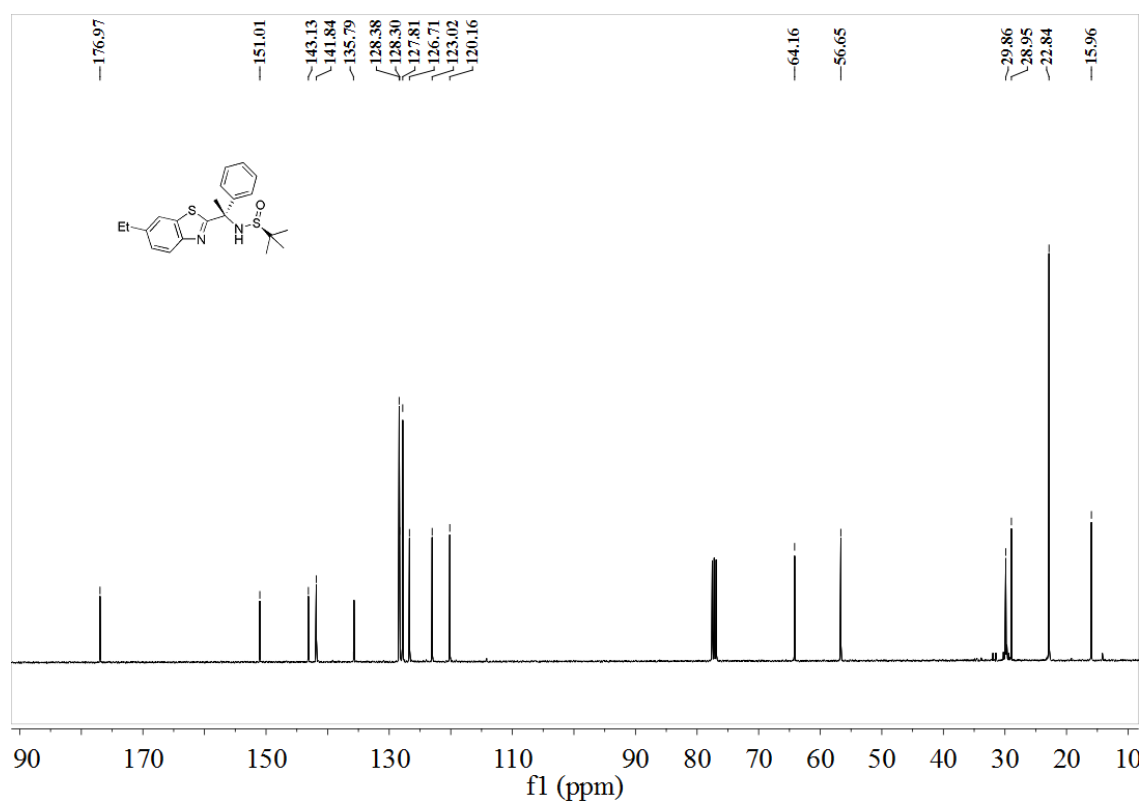
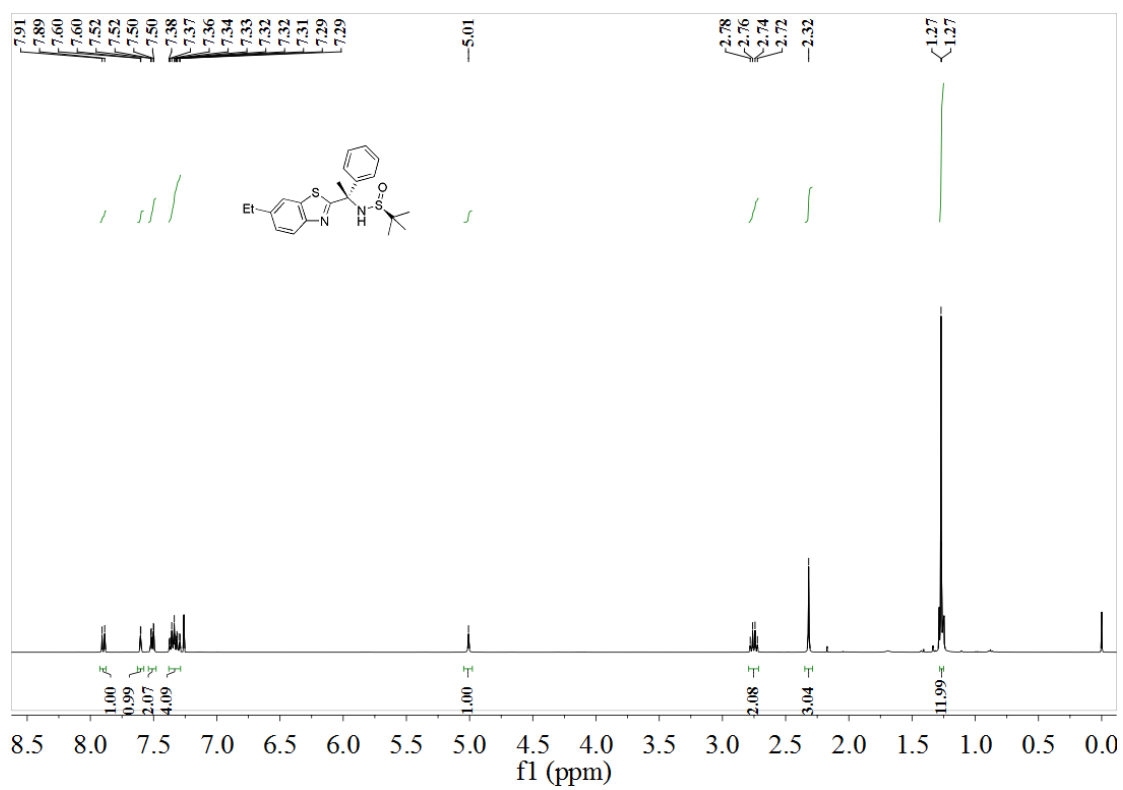
¹H NMR and ¹³C NMR of **8c**



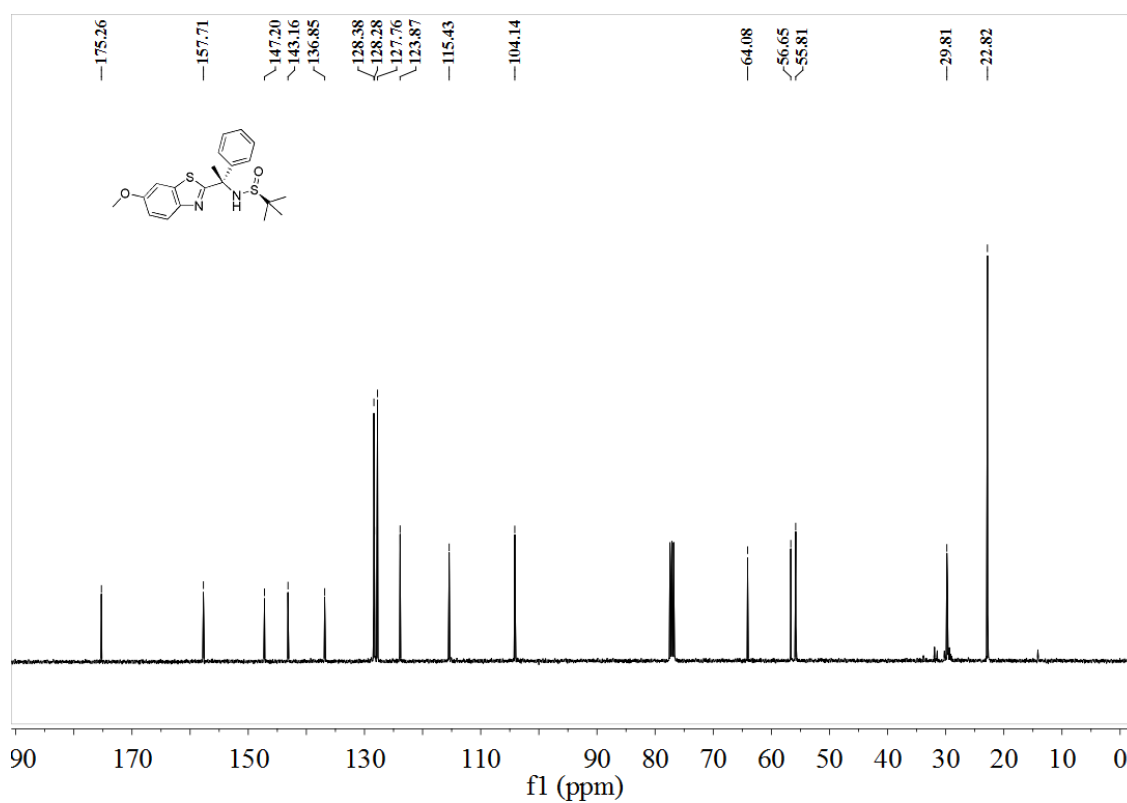
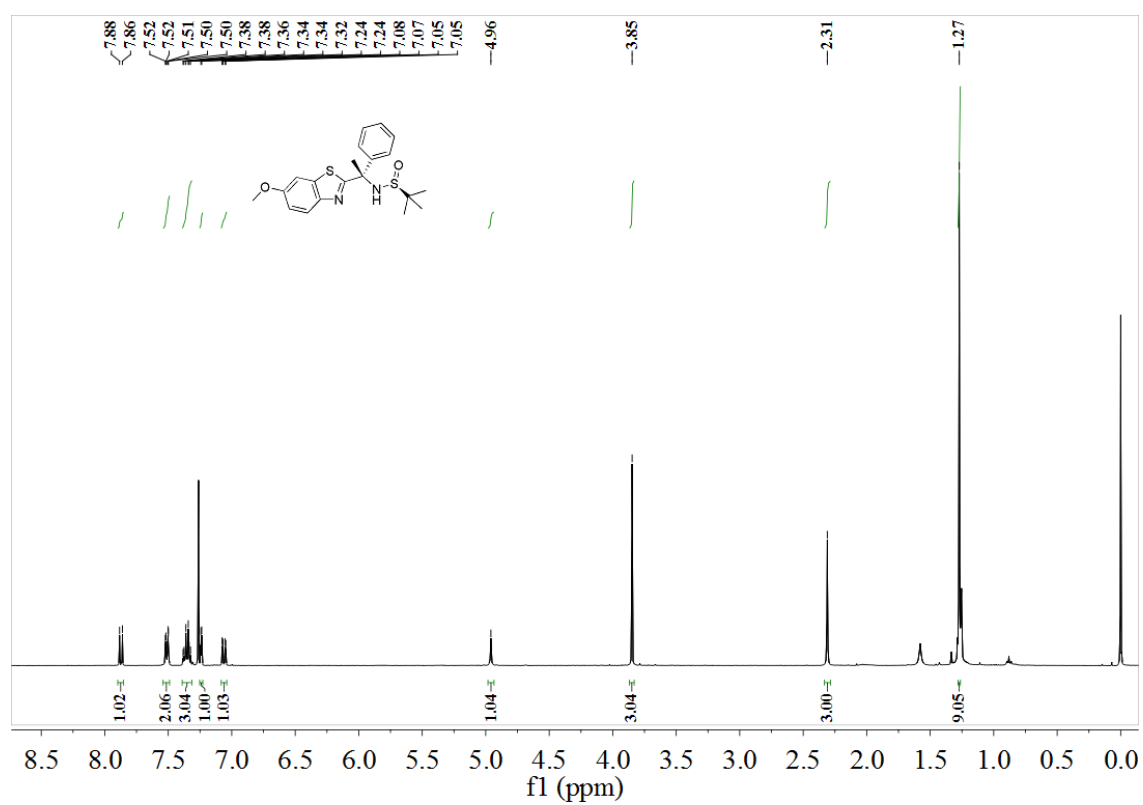
¹H NMR and ¹³C NMR of **8d**



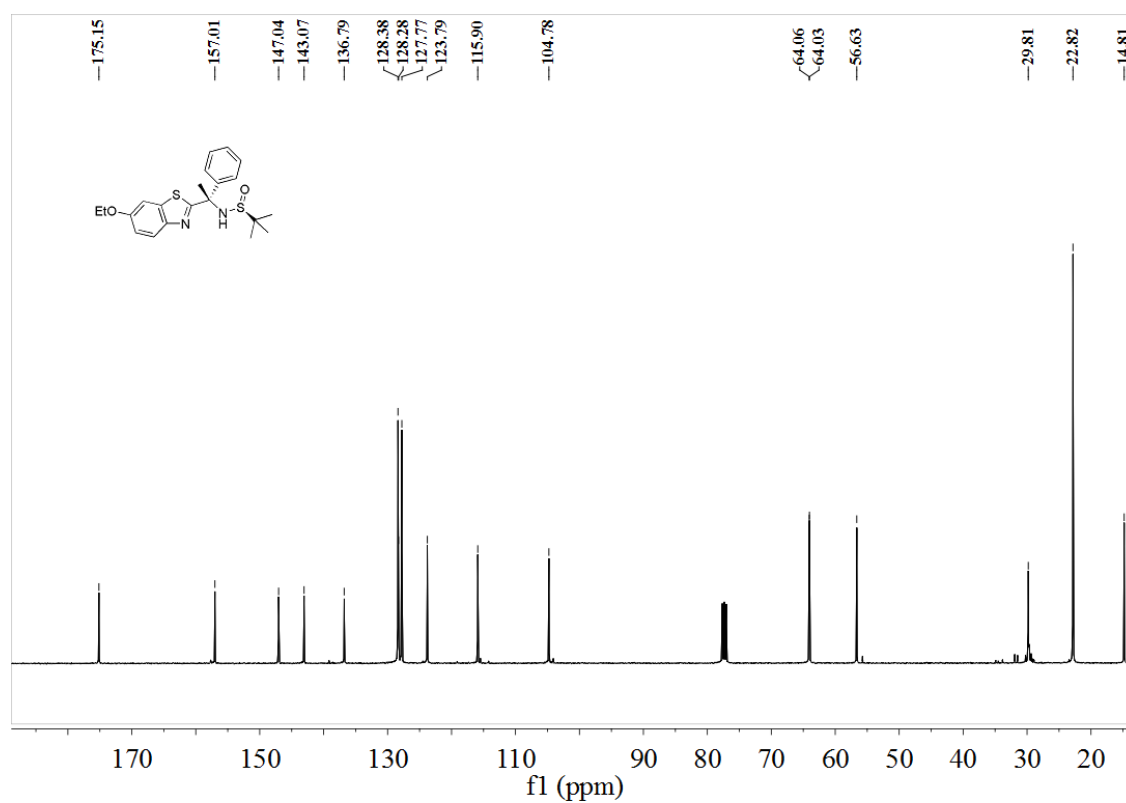
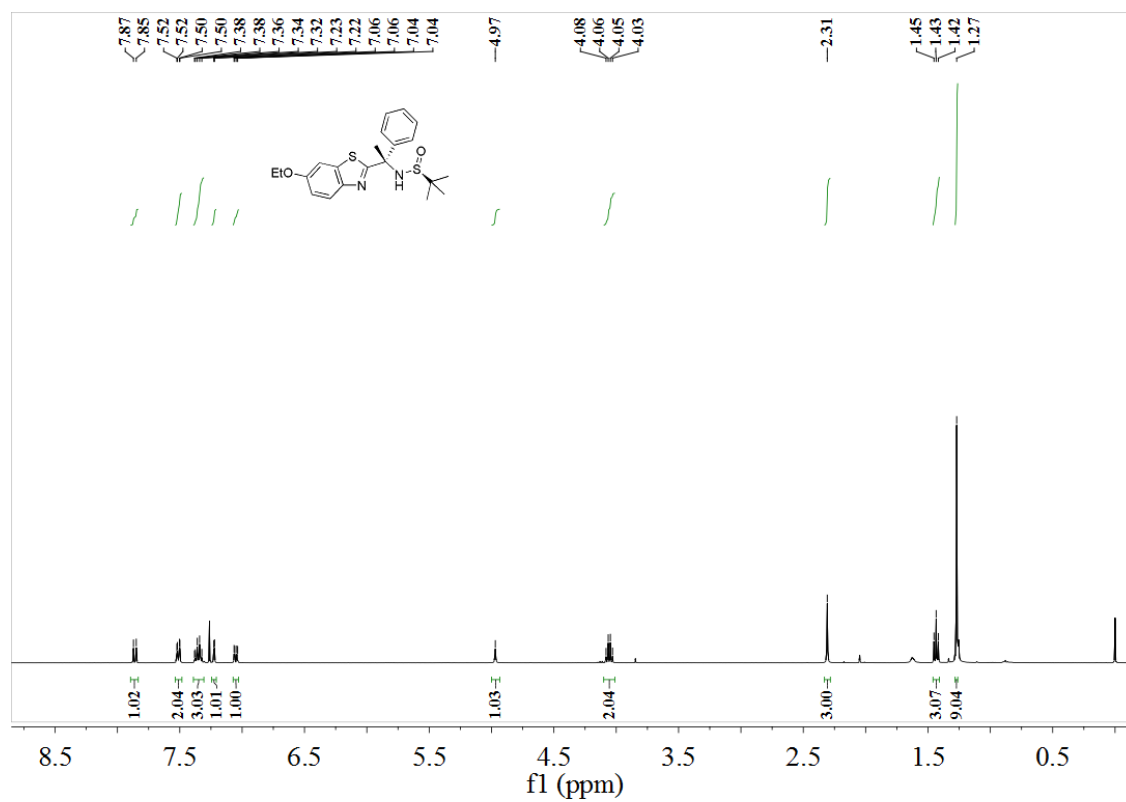
¹H NMR and ¹³C NMR of **8e**



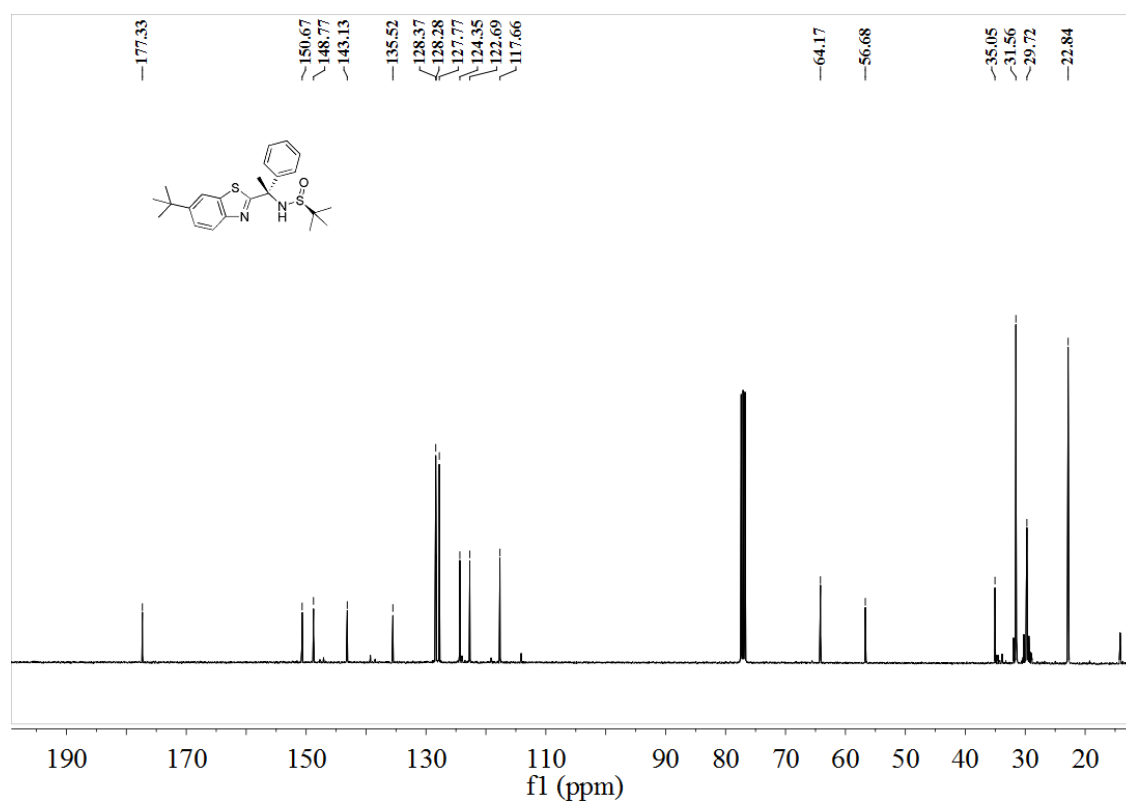
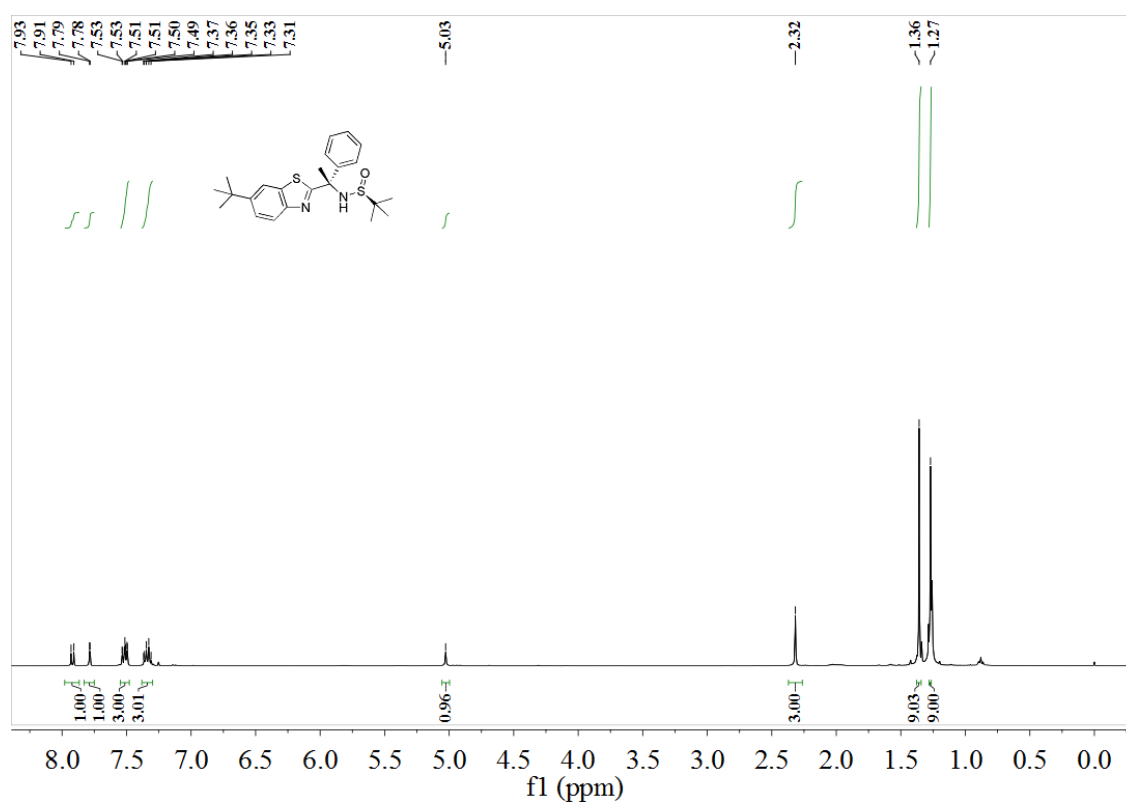
¹H NMR and ¹³C NMR of **8f**



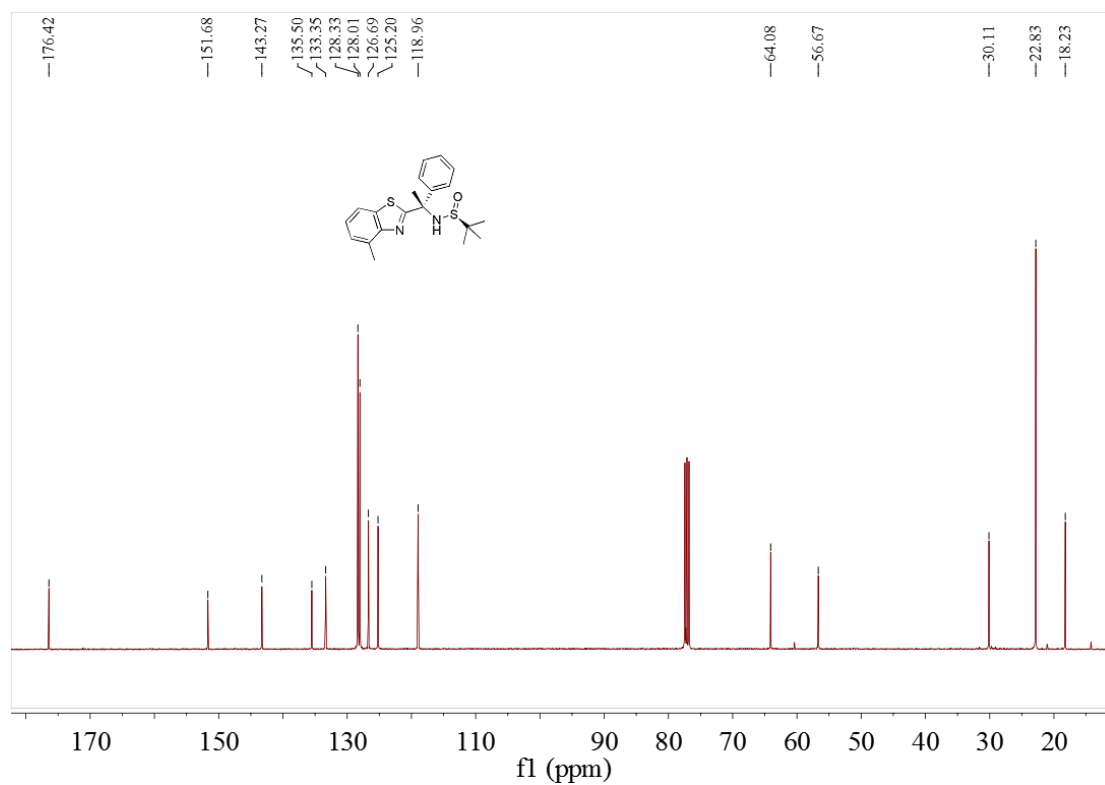
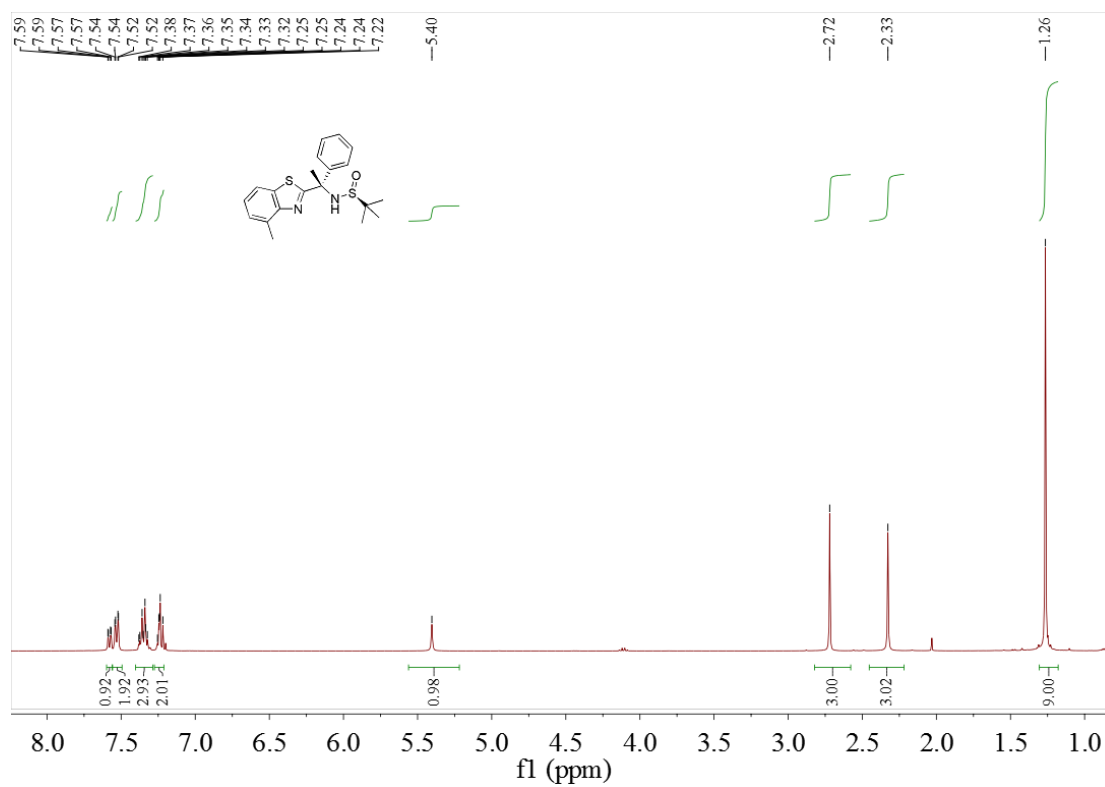
¹H NMR and ¹³C NMR of **8g**



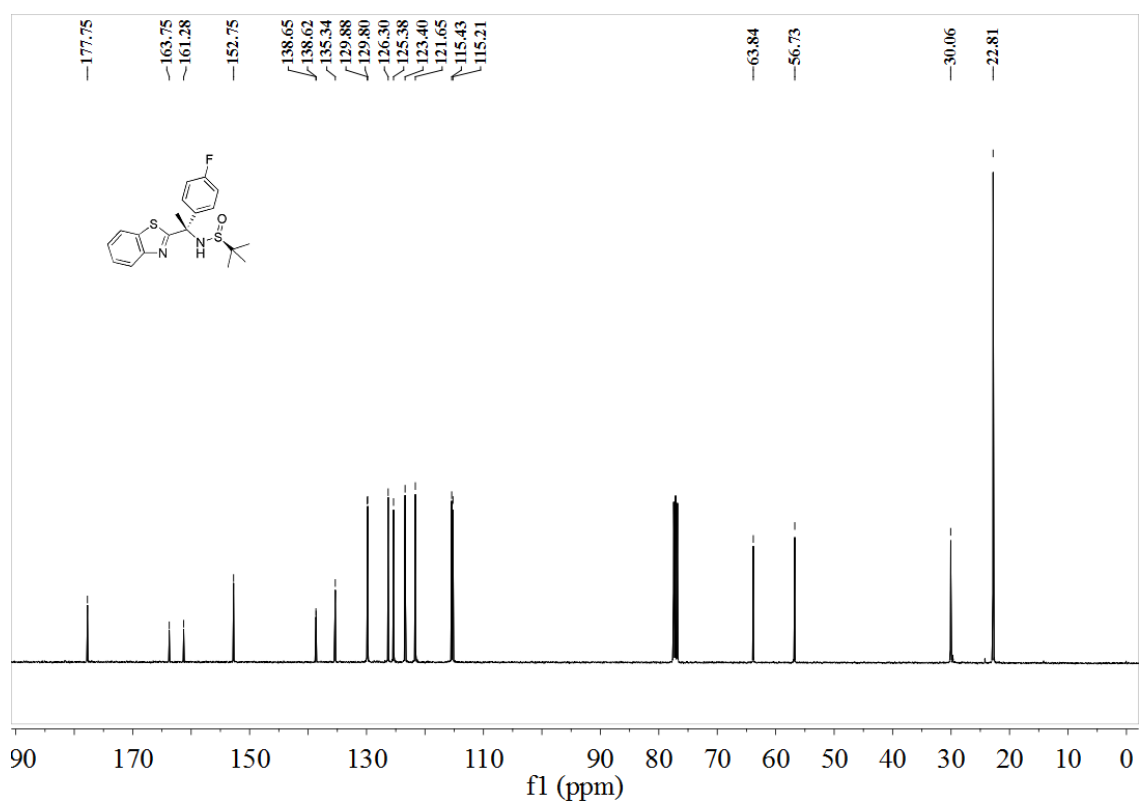
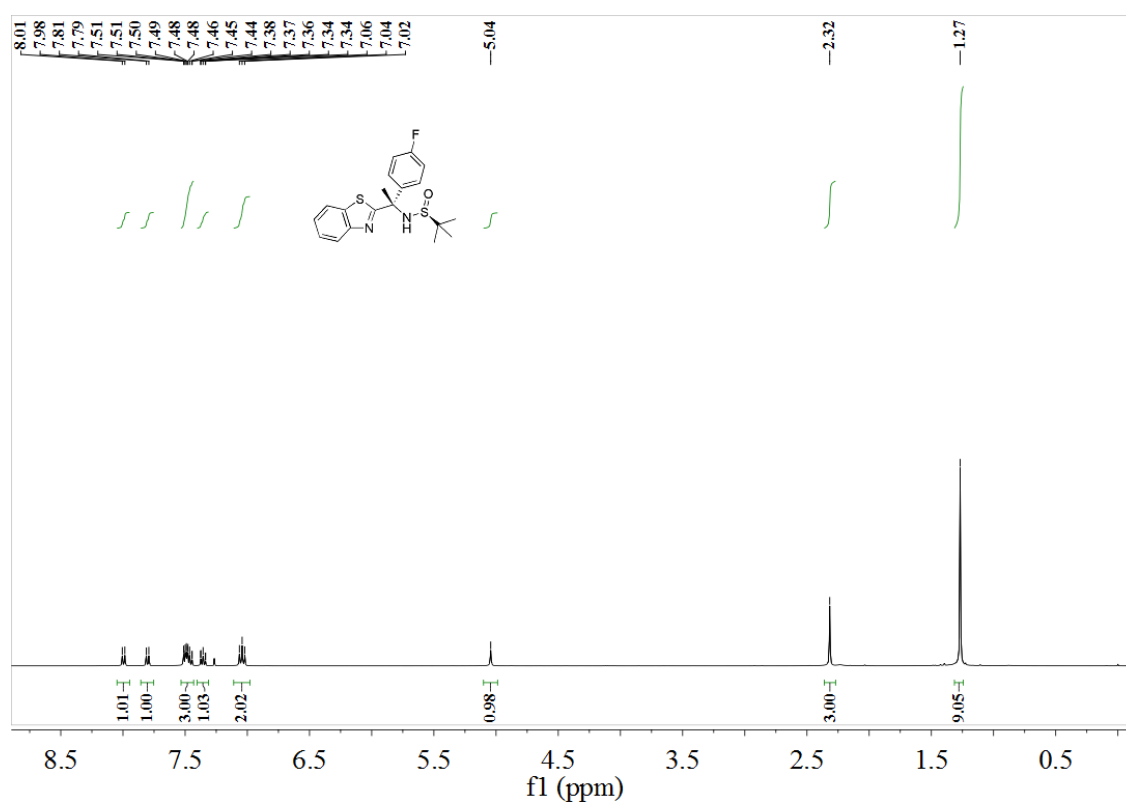
^1H NMR and ^{13}C NMR of **8h**

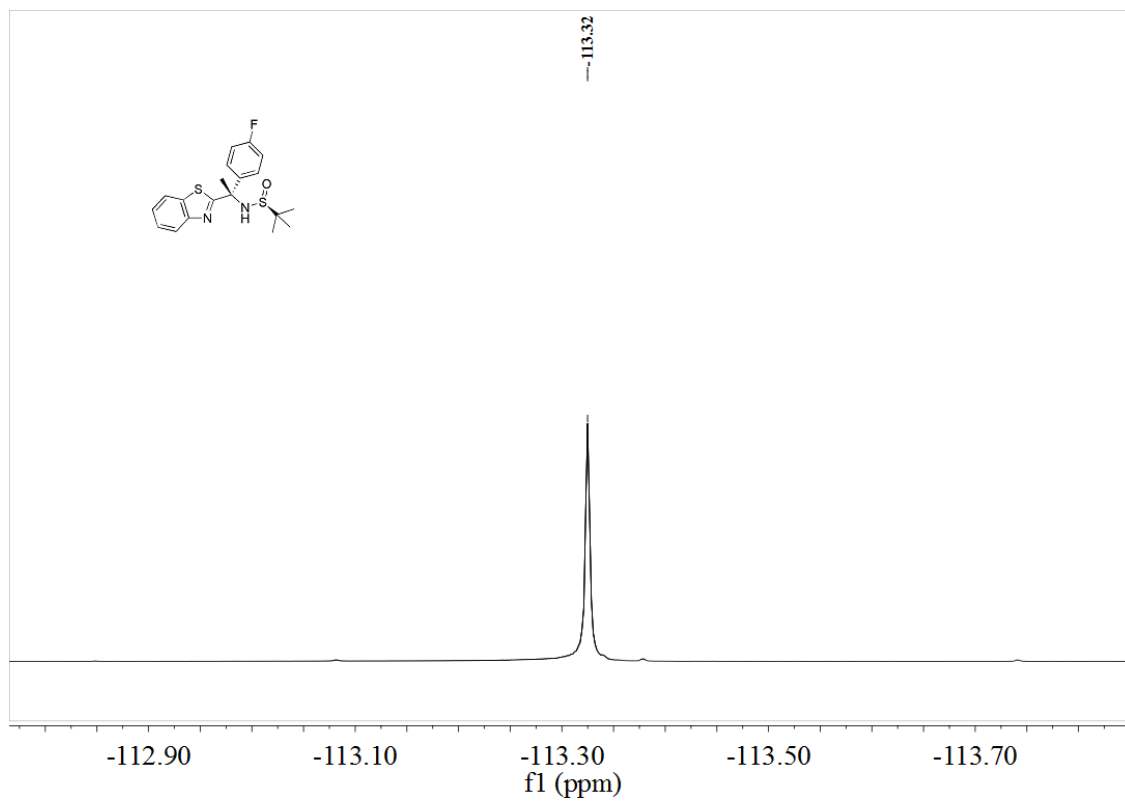


¹H NMR and ¹³C NMR R of **8i**

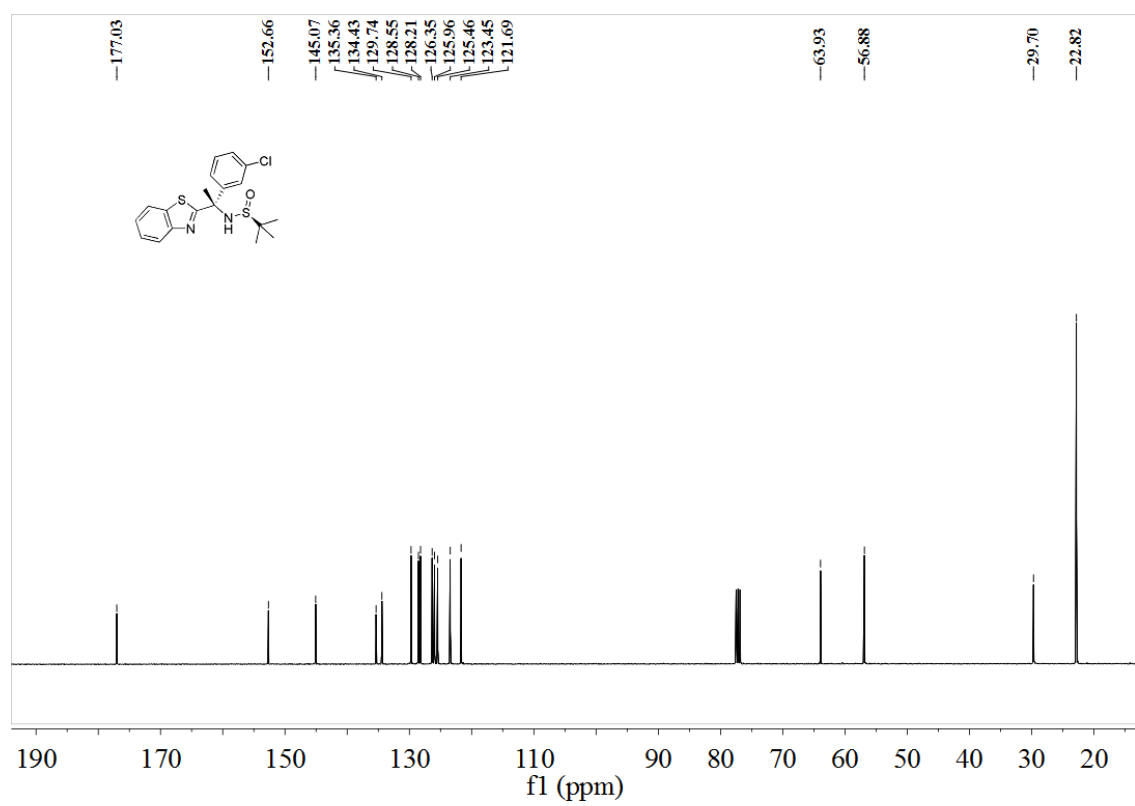
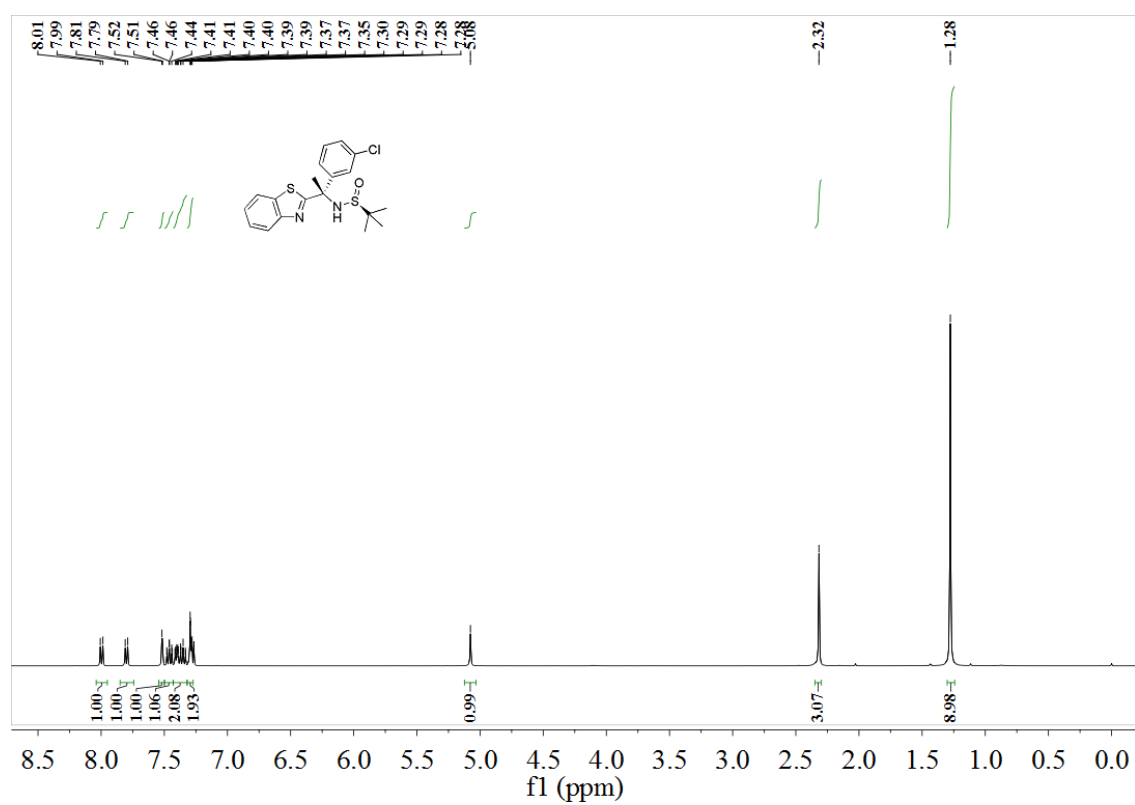


^1H NMR, ^{13}C NMR and ^{19}F NMR of **9b**

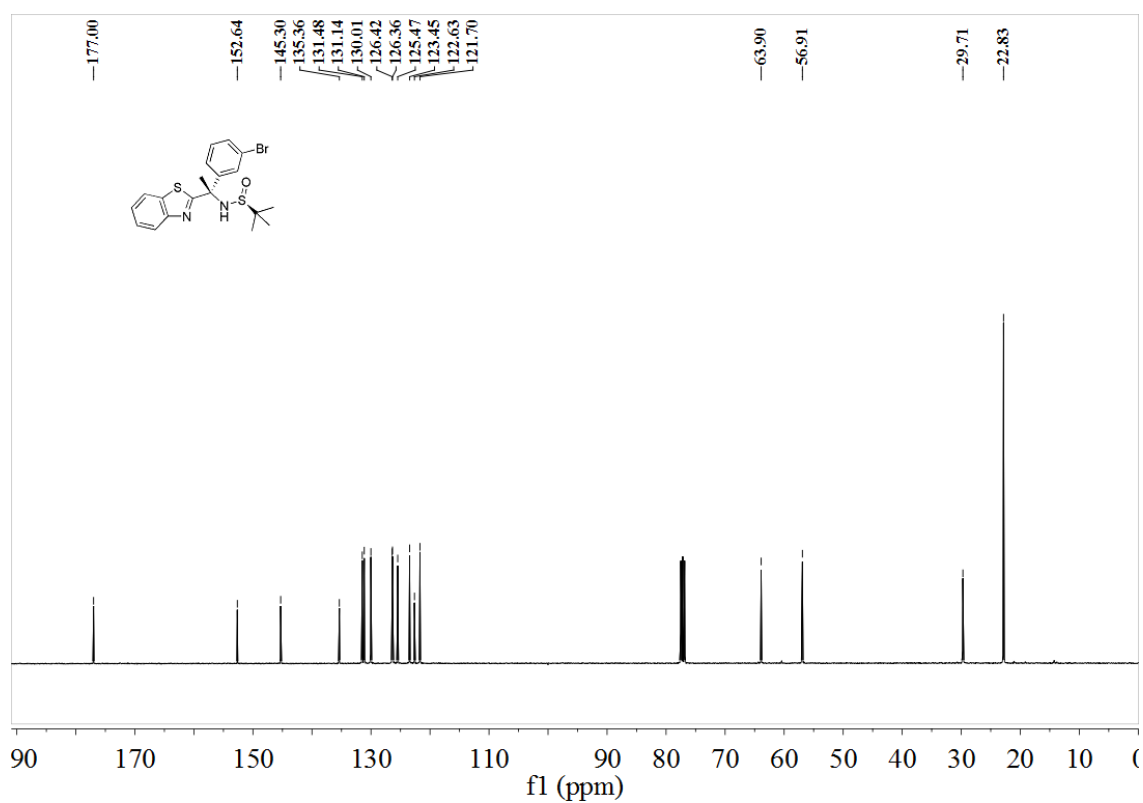
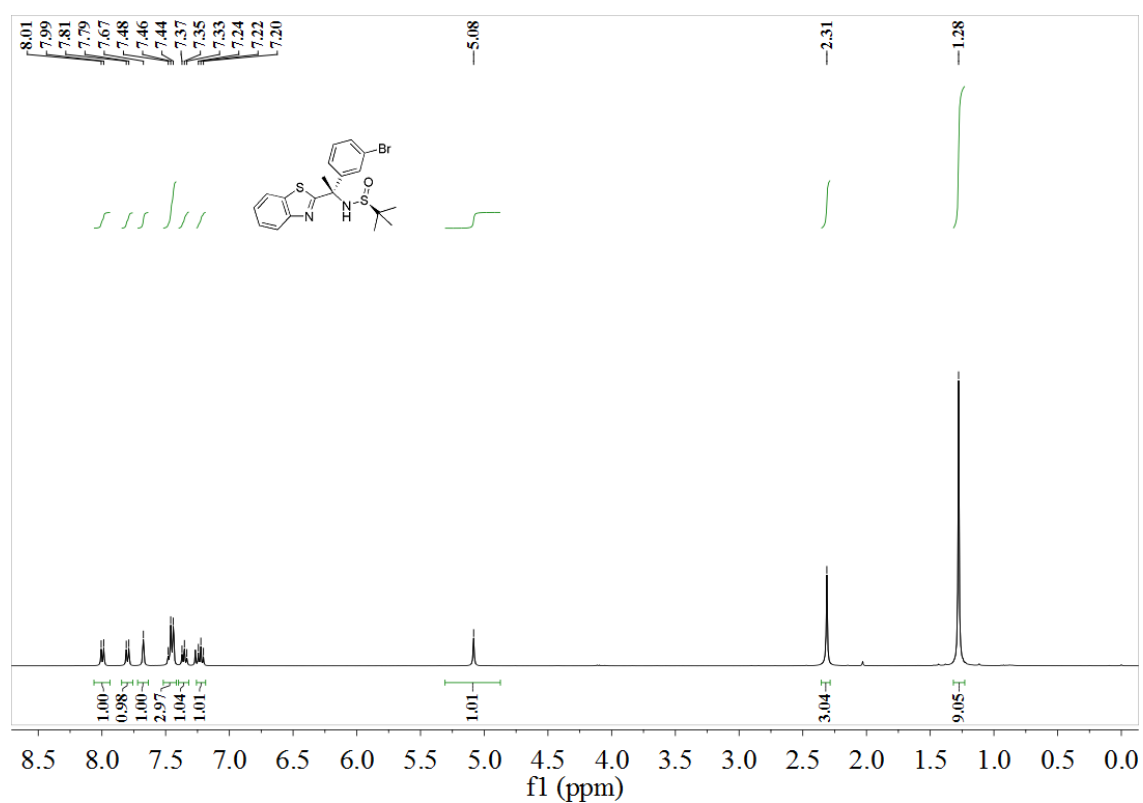




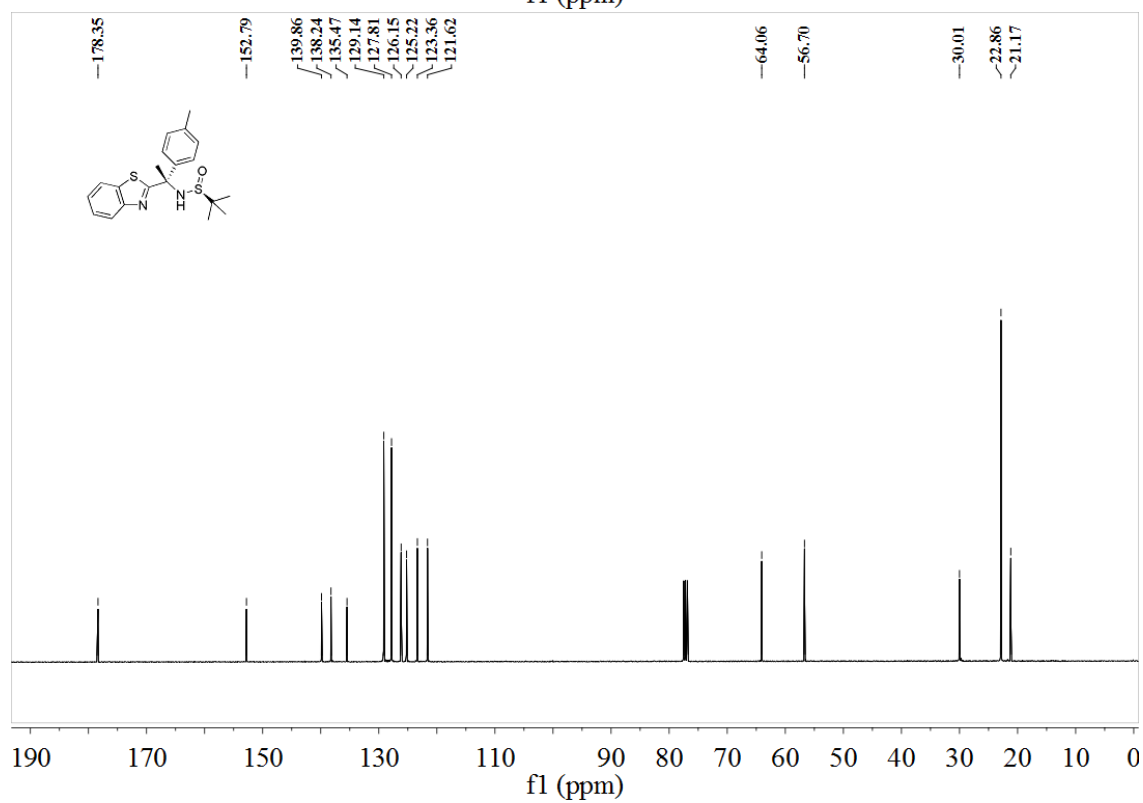
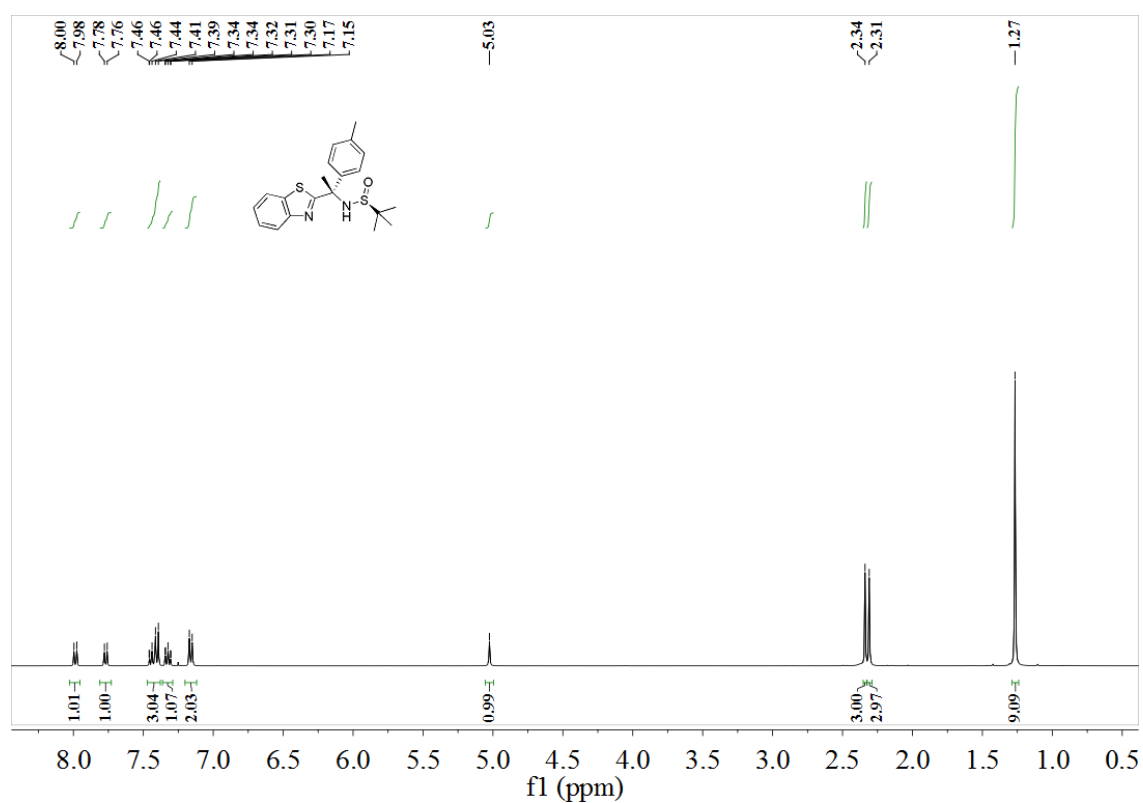
^1H NMR and ^{13}C NMR of **9c**



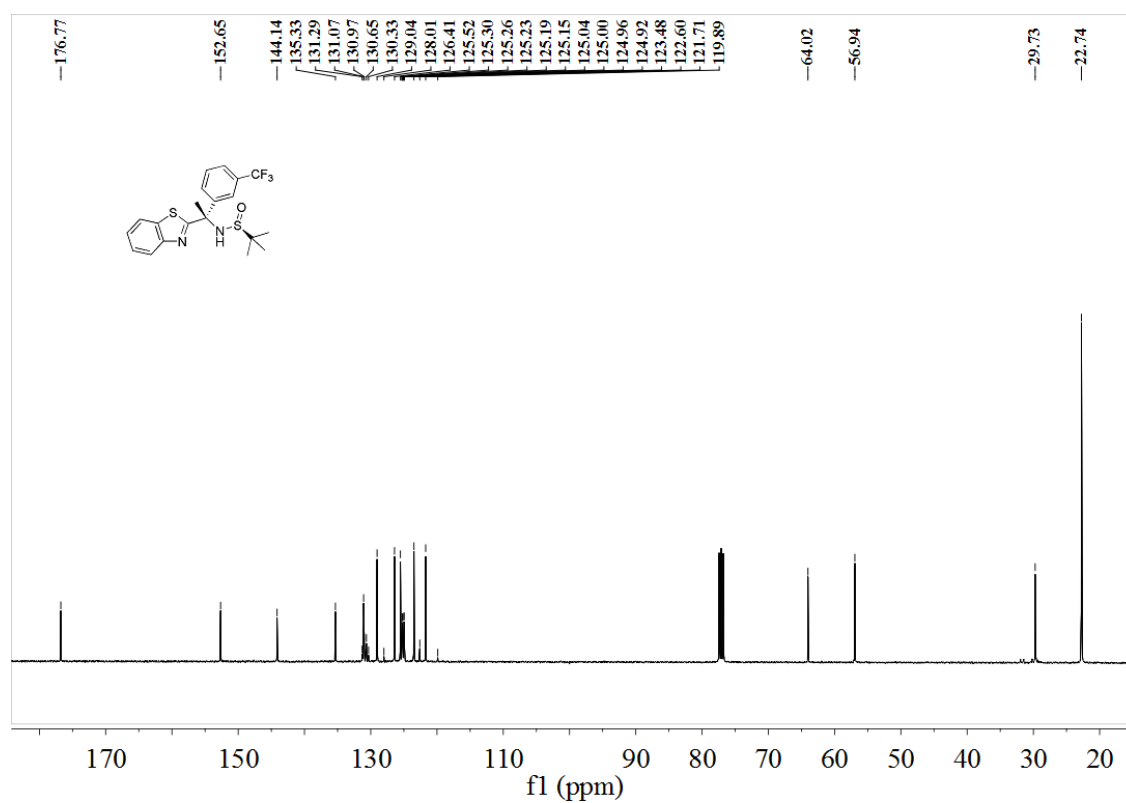
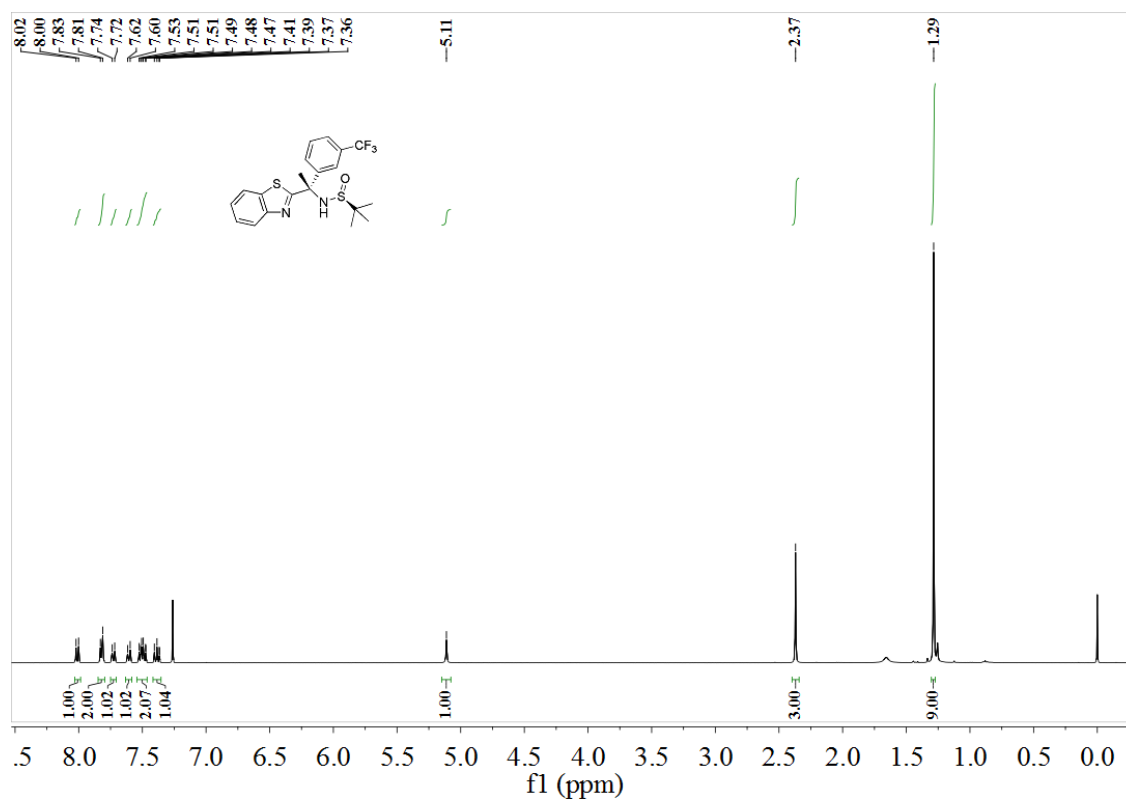
¹H NMR and ¹³C NMR of **9d**

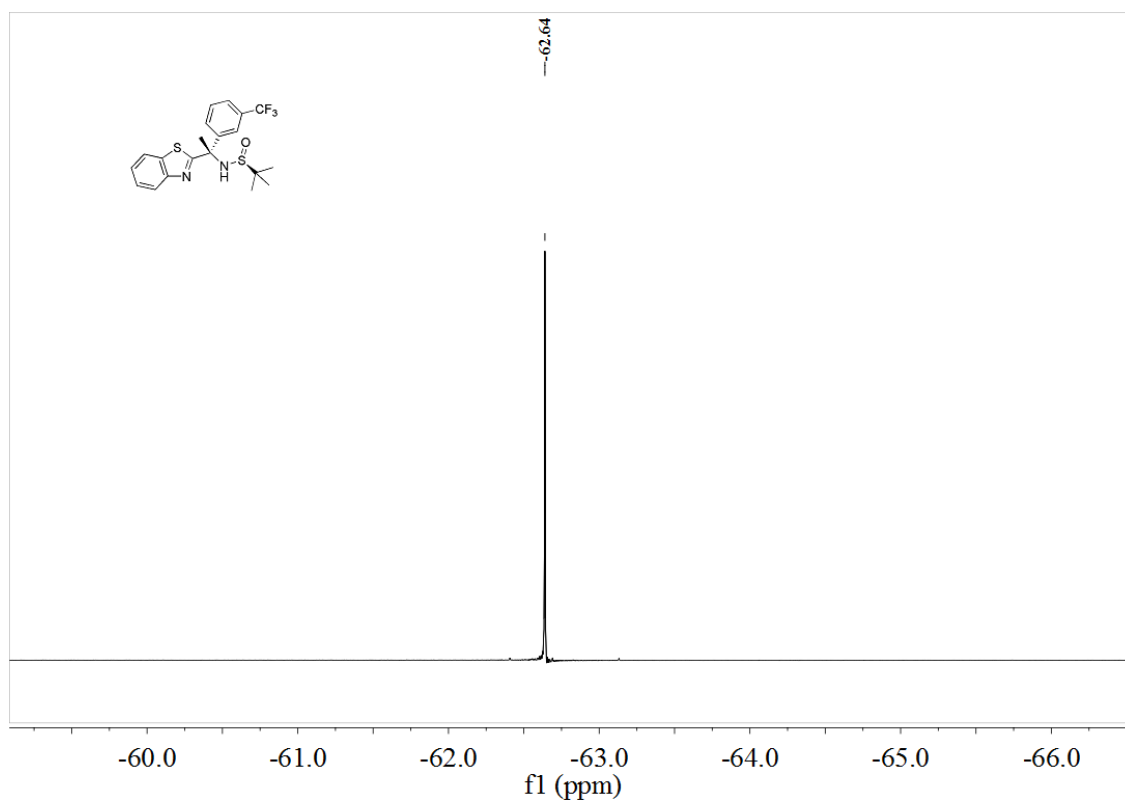


^1H NMR and ^{13}C NMR of **9e**

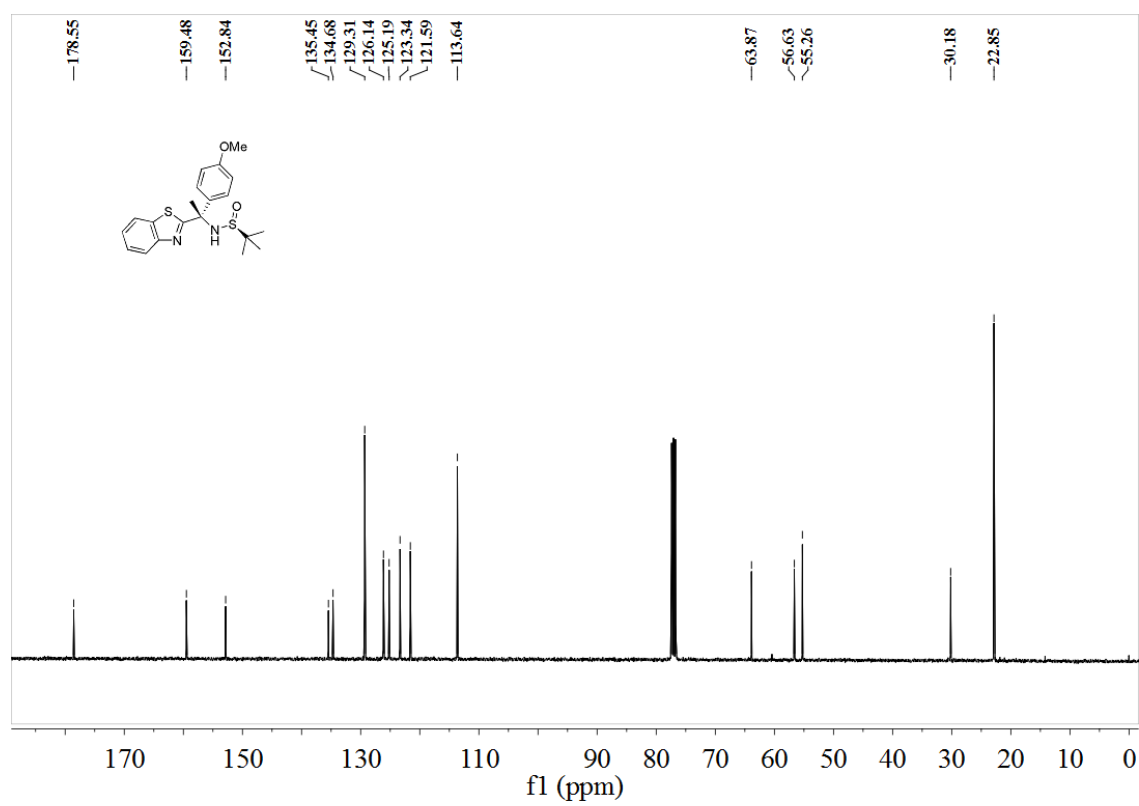
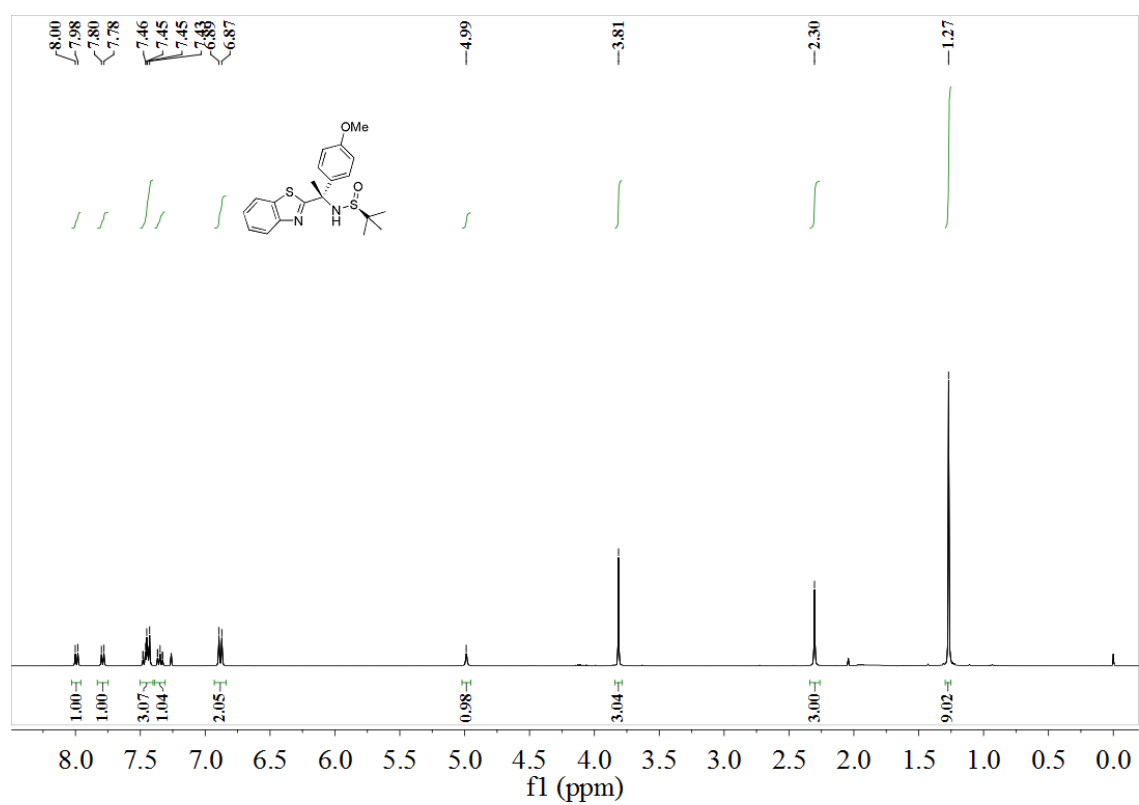


^1H NMR, ^{13}C NMR and ^{19}F NMR of **9f**

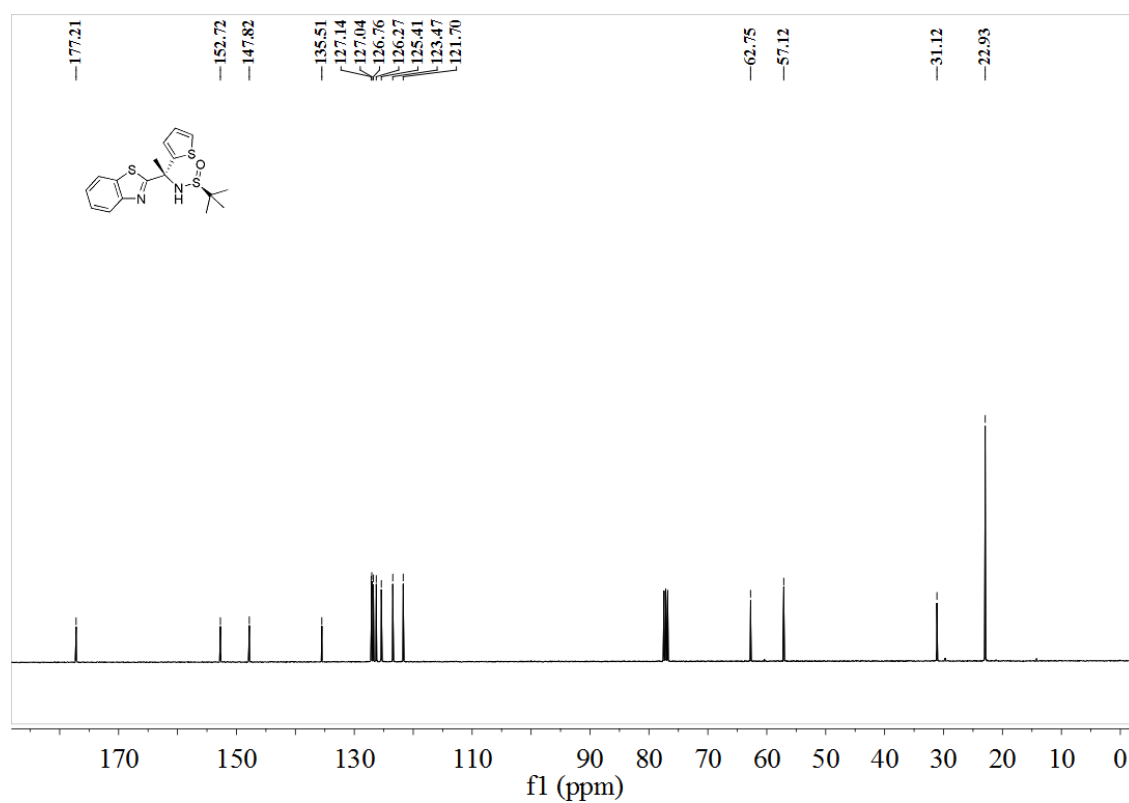
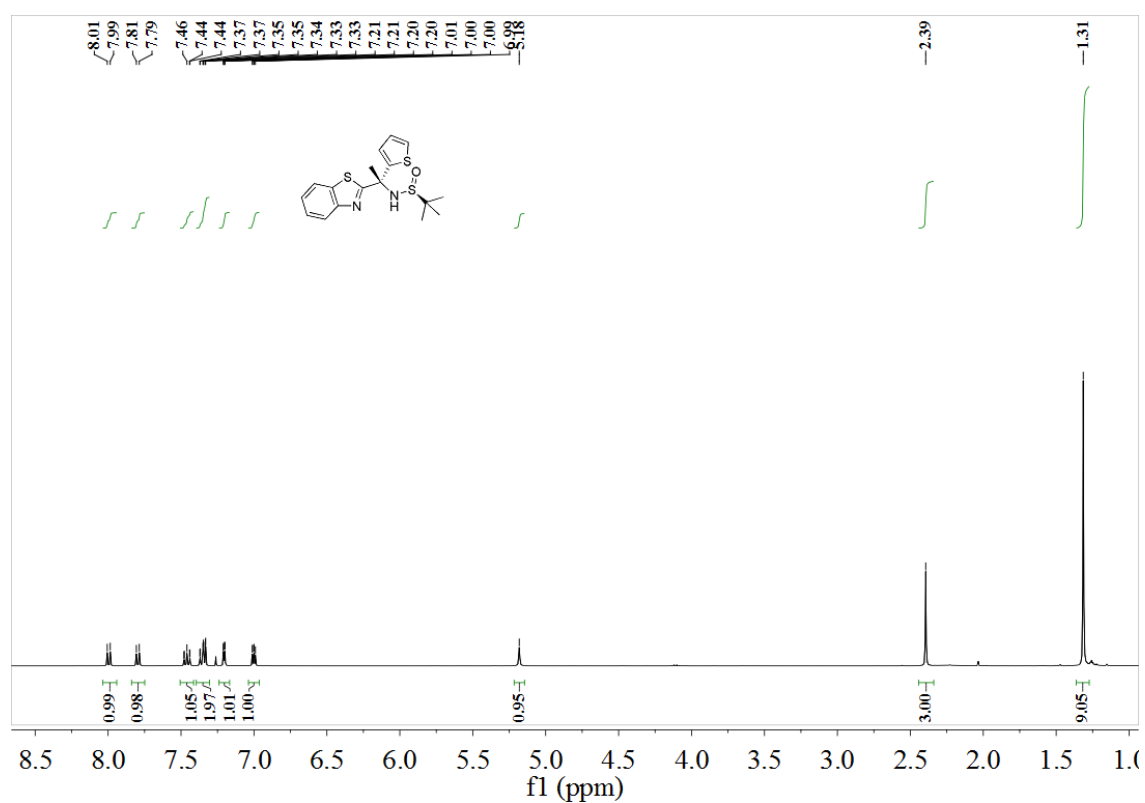




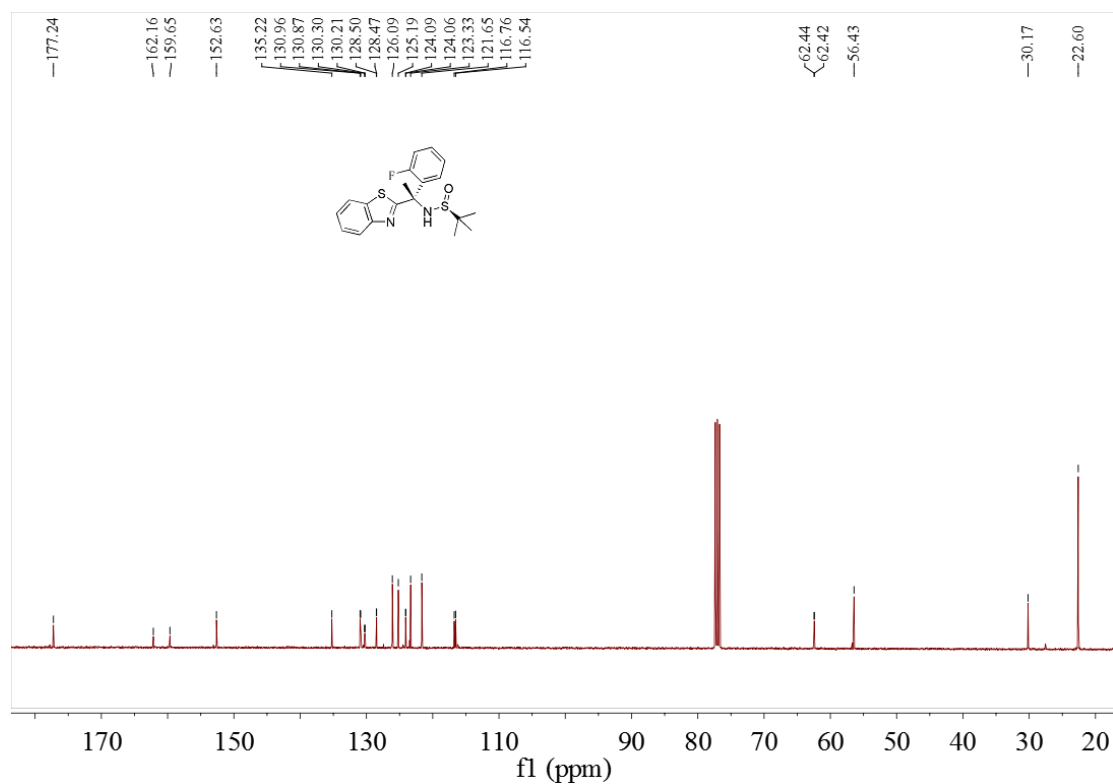
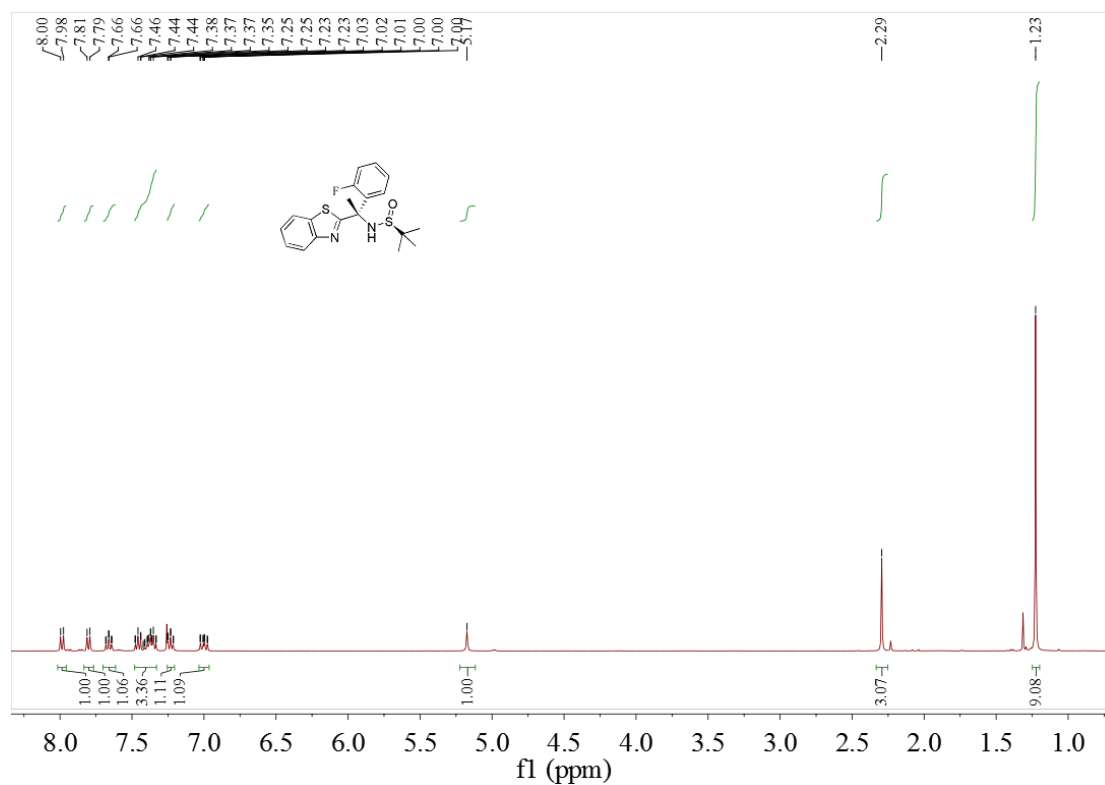
^1H NMR and ^{13}C NMR of **9g**

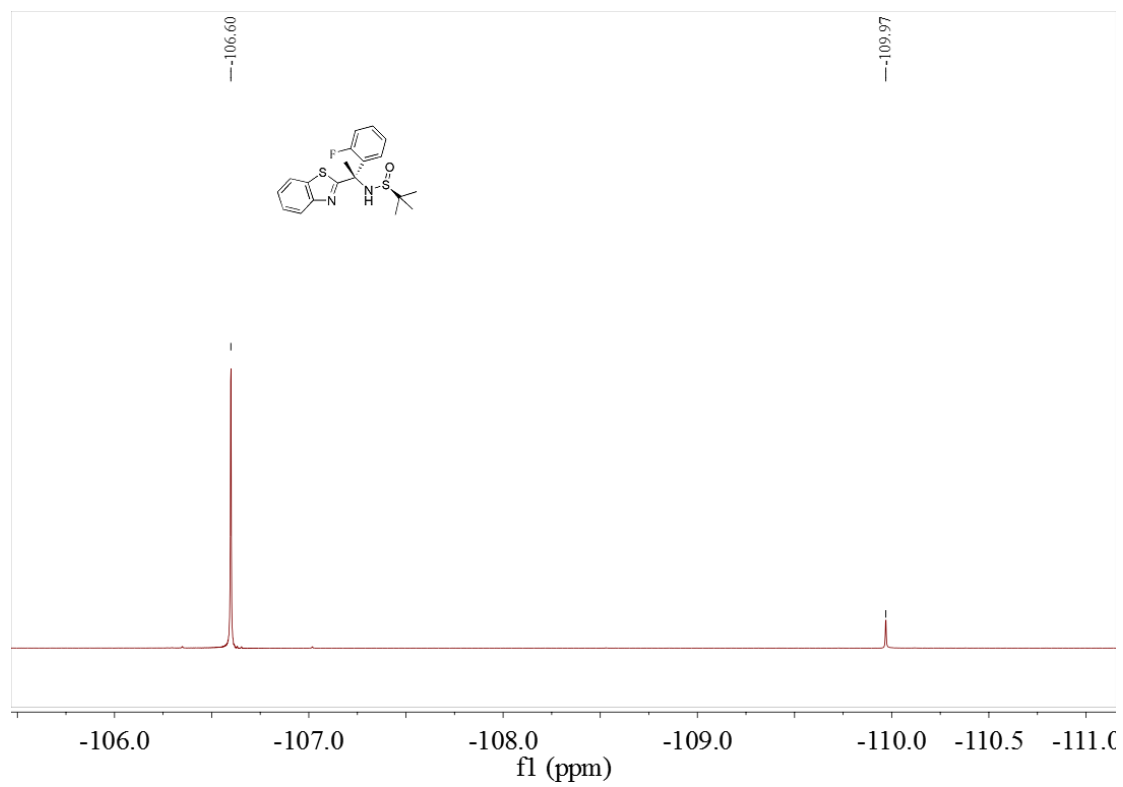


¹H NMR and ¹³C NMR of **9h**

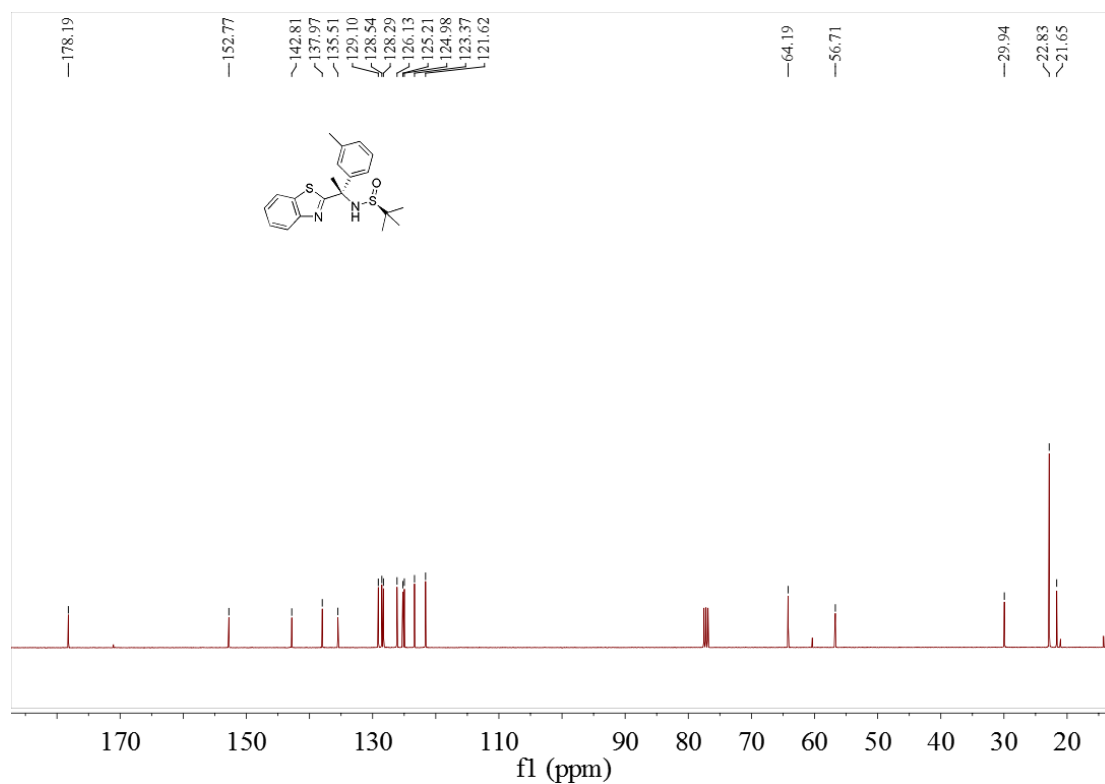
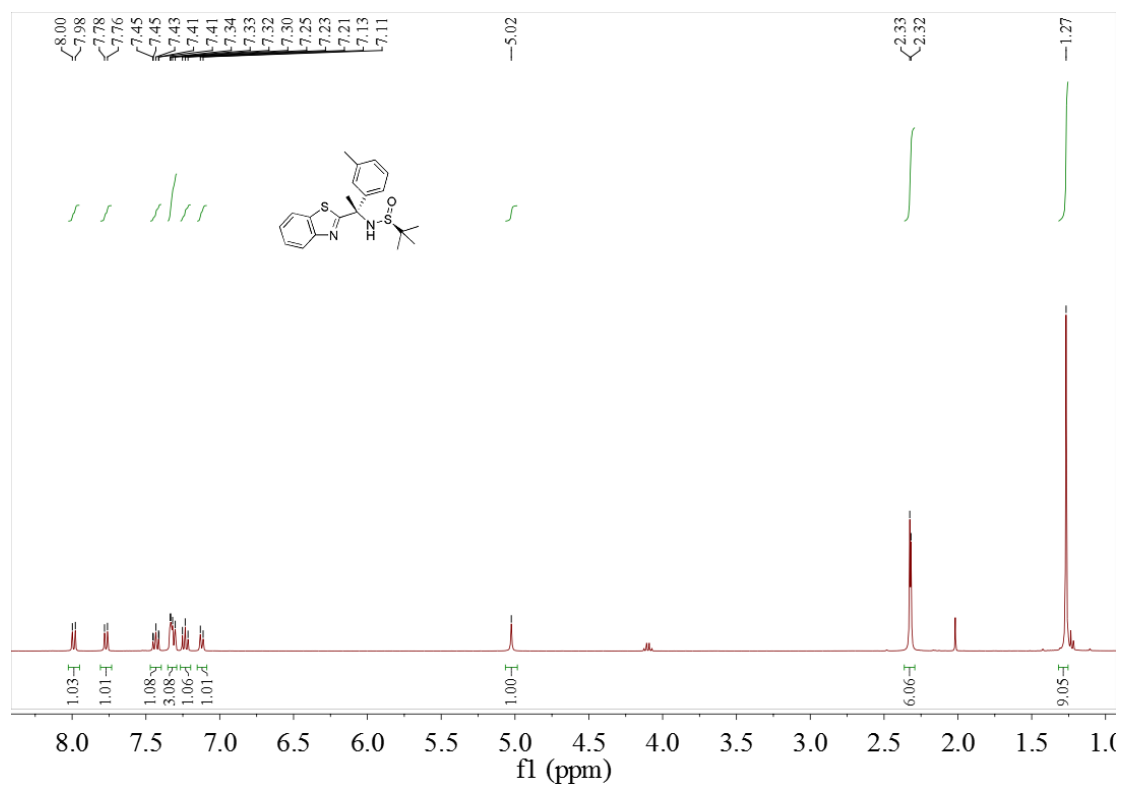


¹H NMR, ¹³C NMR and ¹⁹F NMR of **9i**





¹H NMR and ¹³C NMR R of 9j



^1H NMR and ^{13}C NMR of **10**

