

Supporting Information for
TfOH-Catalyzed Reaction between 3-Diazoindolin-2-imines and
Electron-Rich Arenes: Access to 3-Aryl-2-aminoindoles

Jie Qi, Zaibin Wang, Bo Lang, Ping Lu*, and Yanguang Wang*

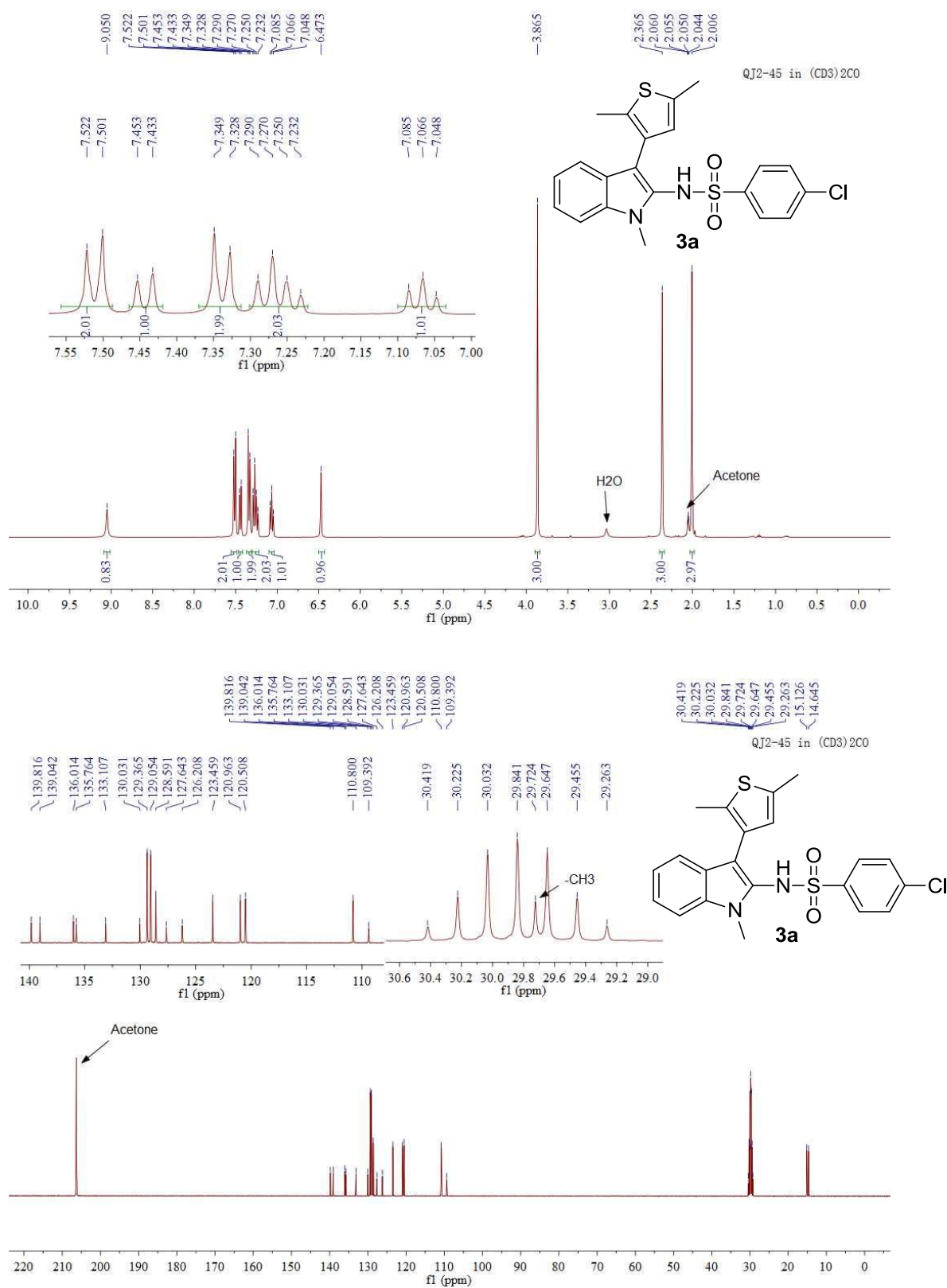
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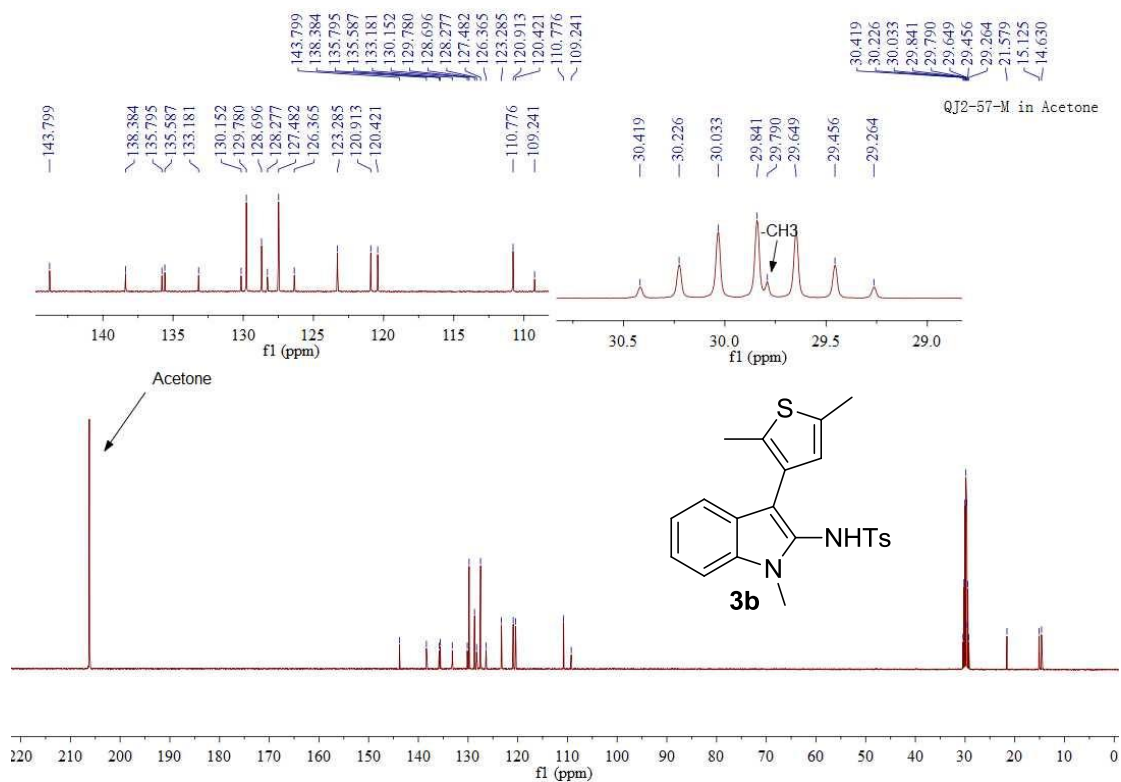
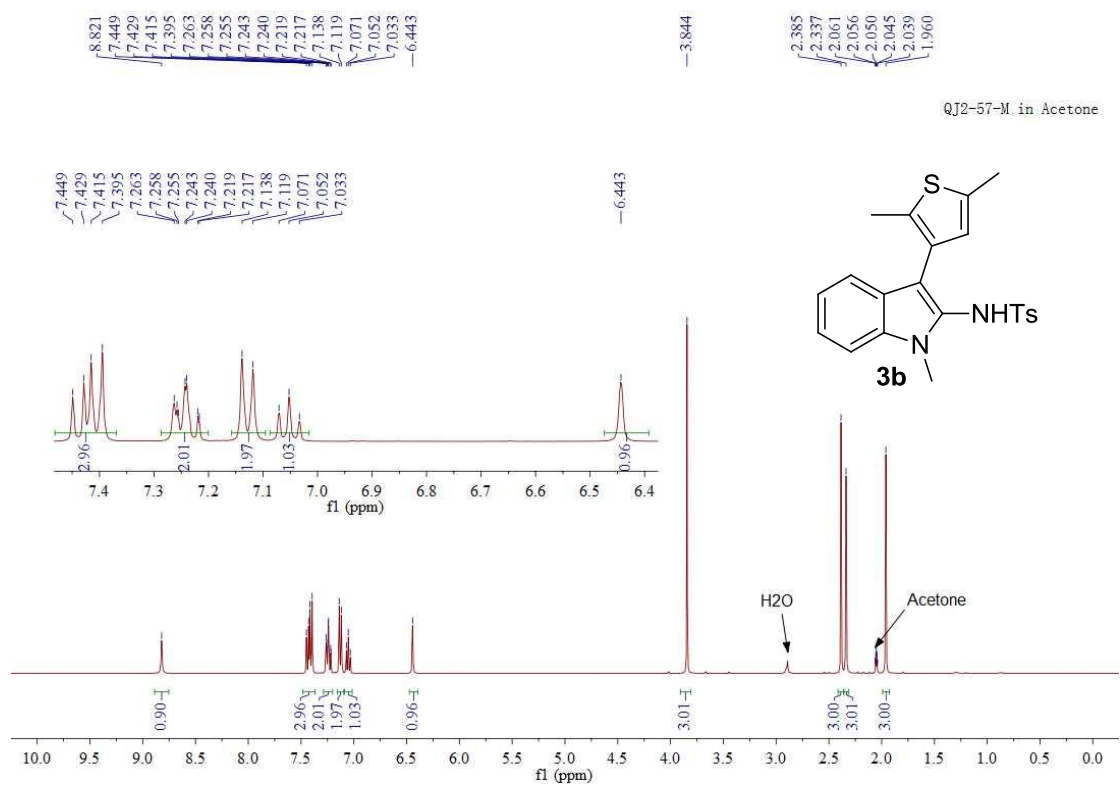
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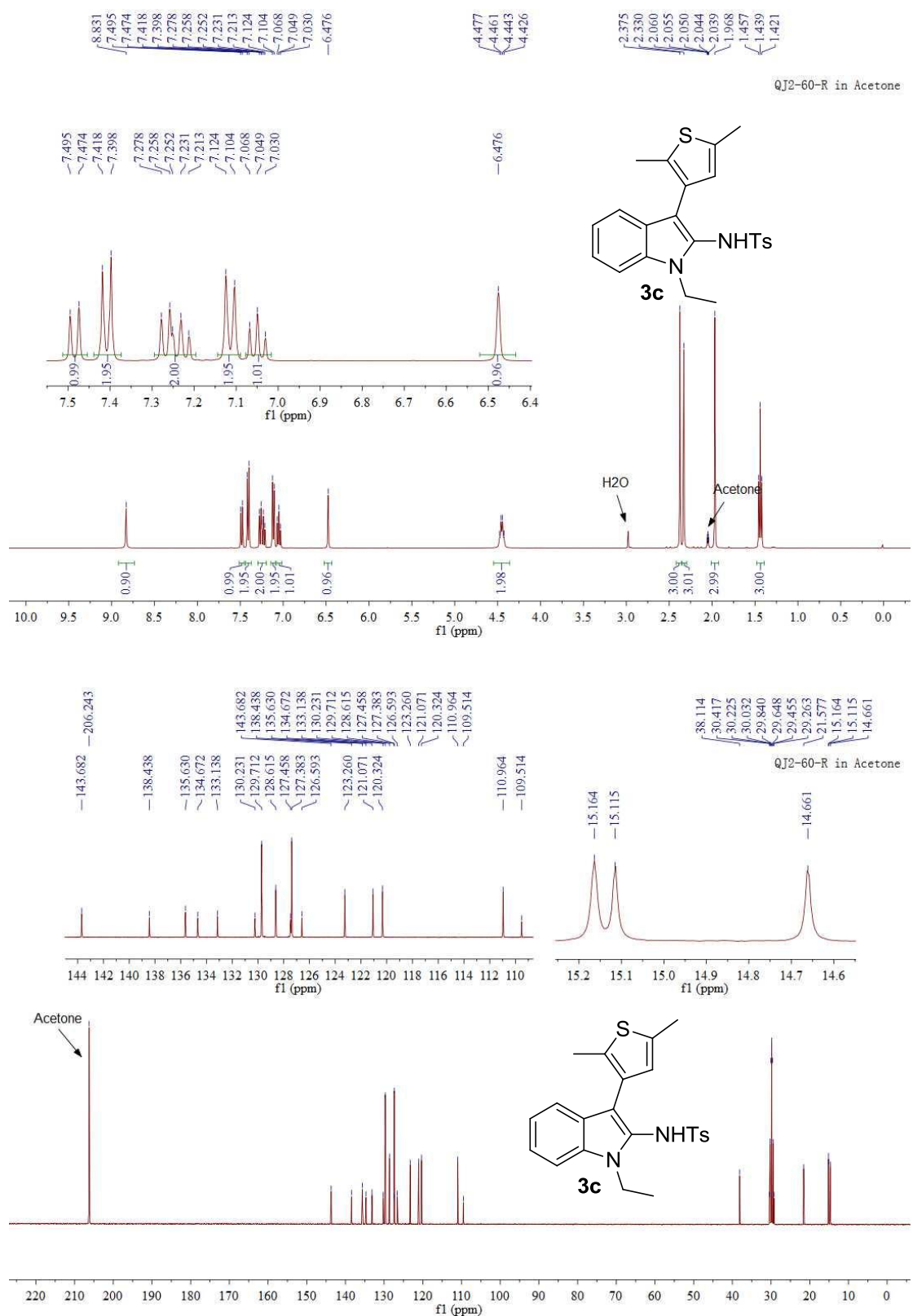
Contents

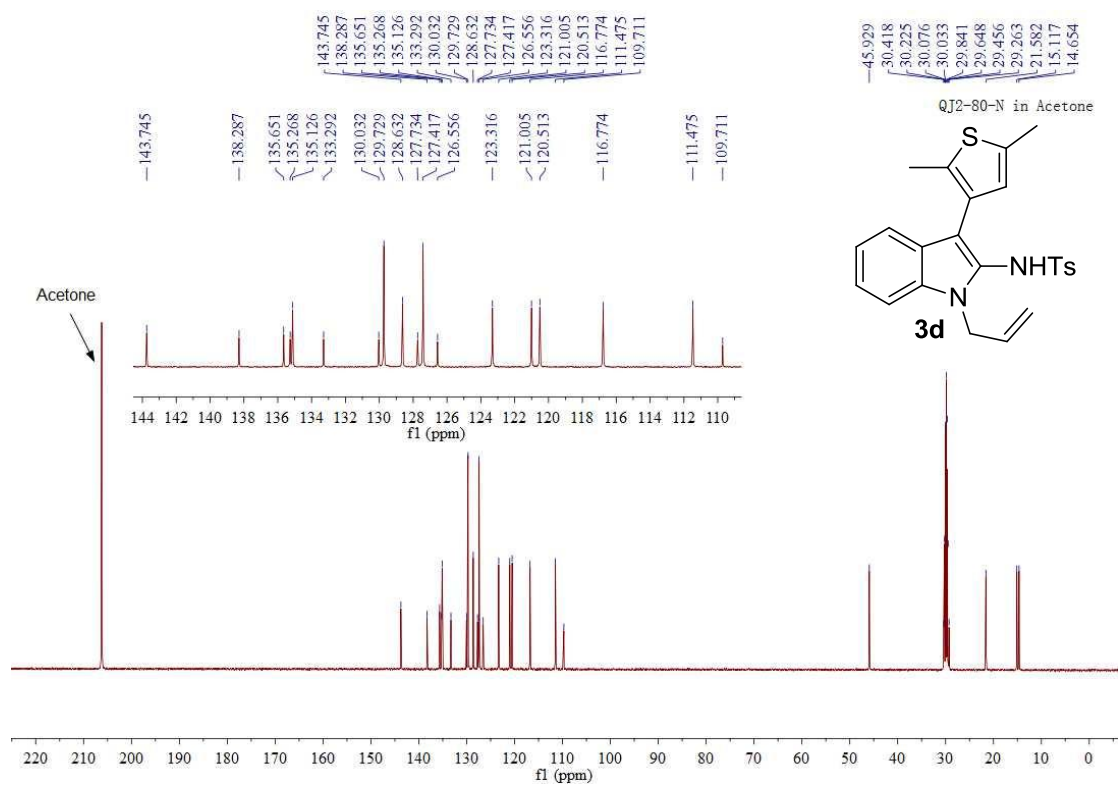
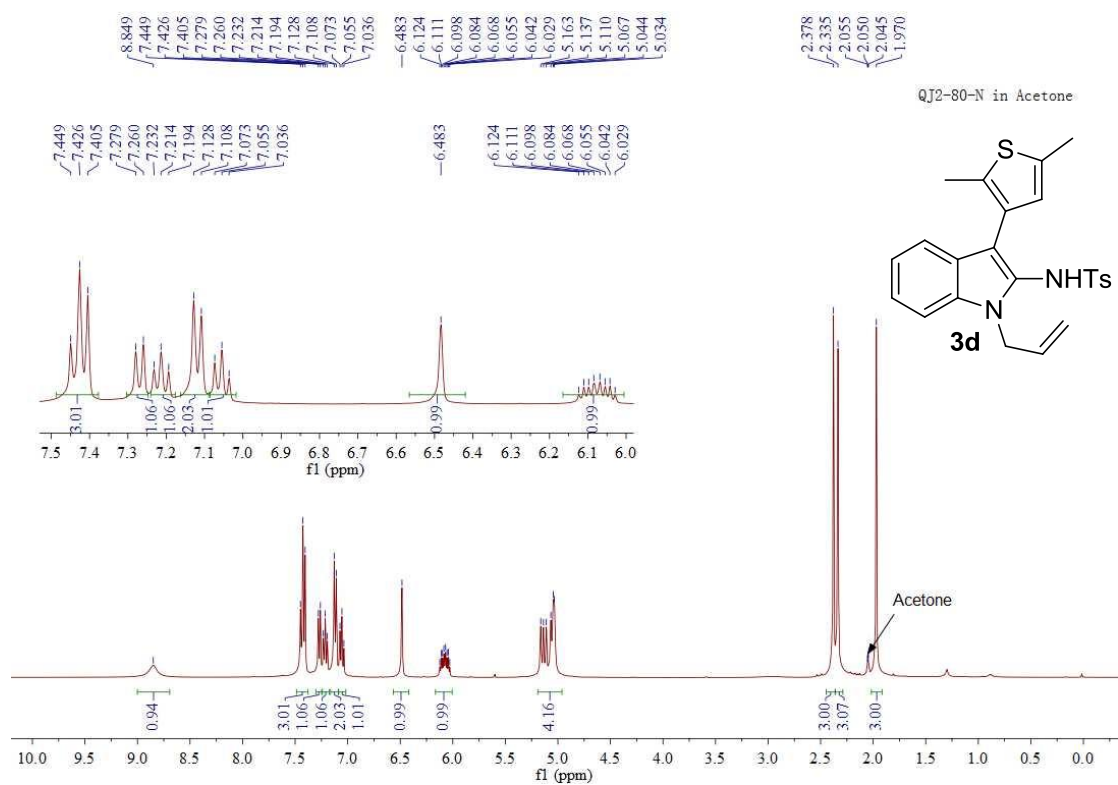
1. Copies of ^1H and ^{13}C NMR	S2-S30
2. Crystal structure of 3o	S31

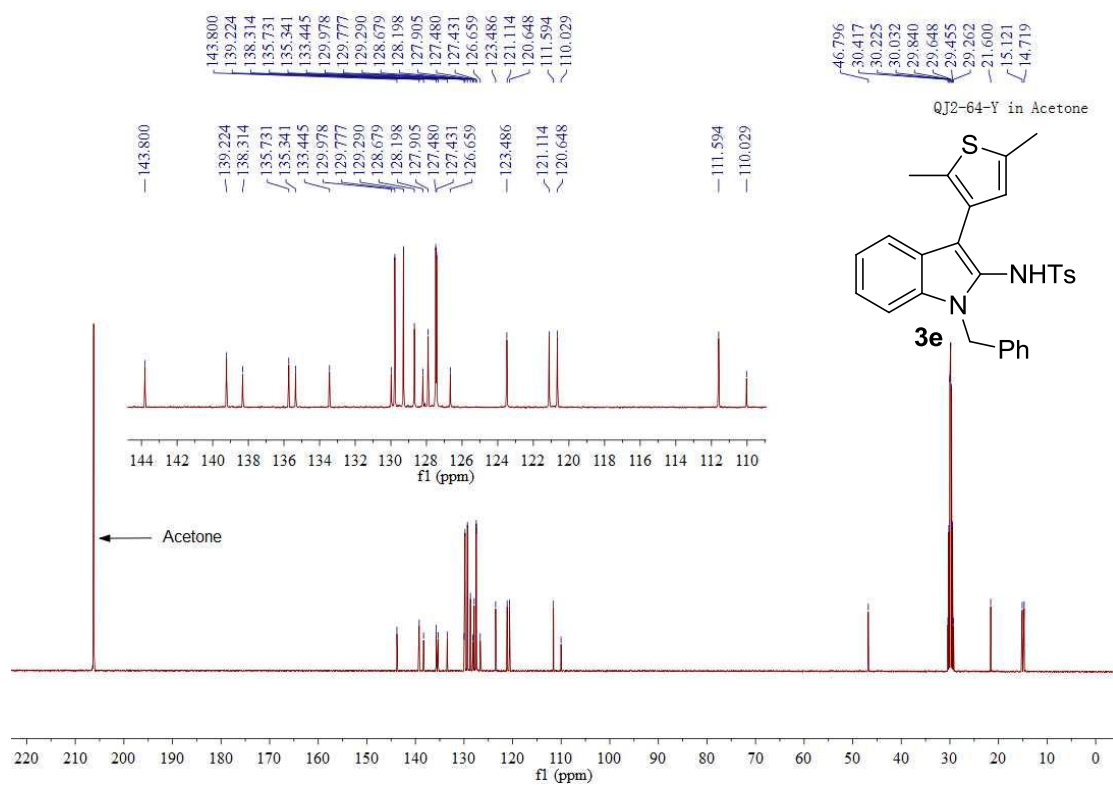
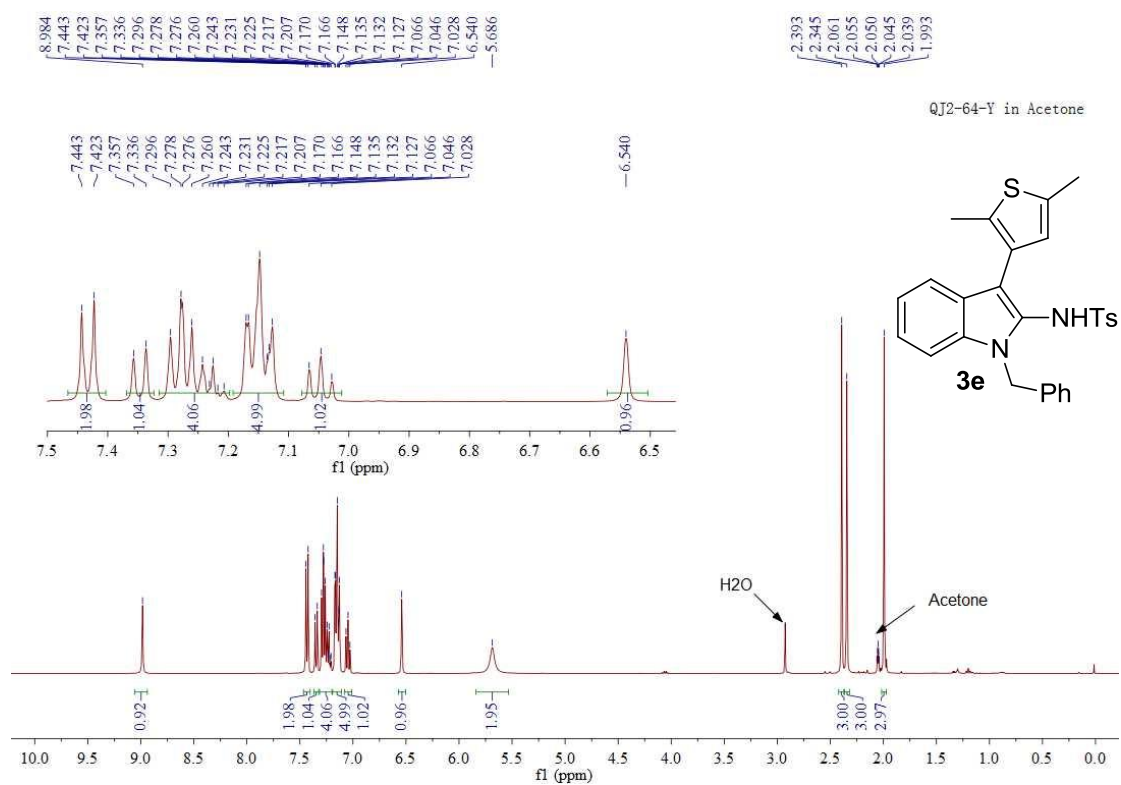
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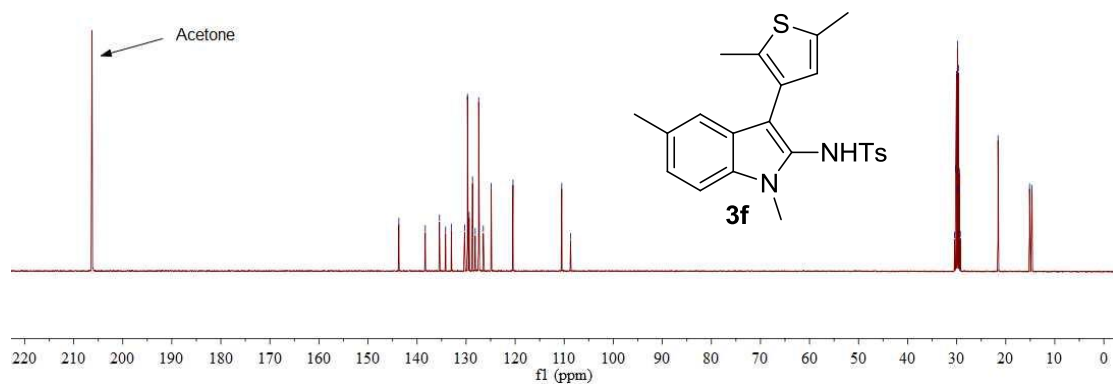
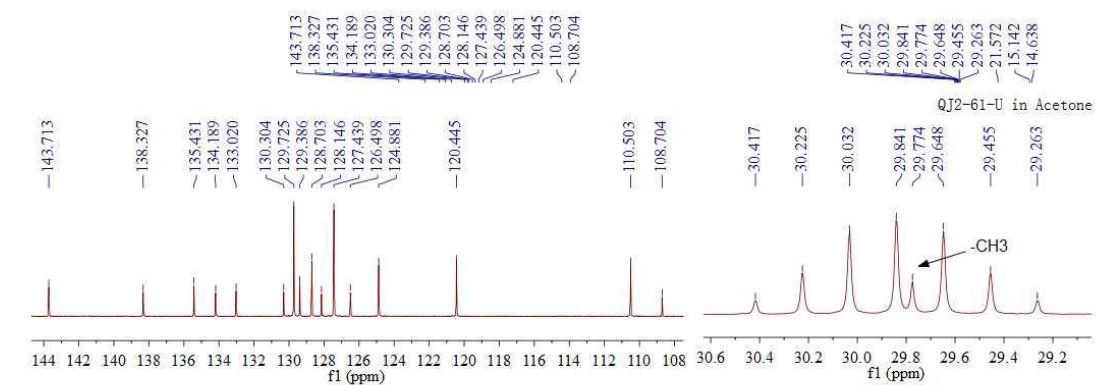
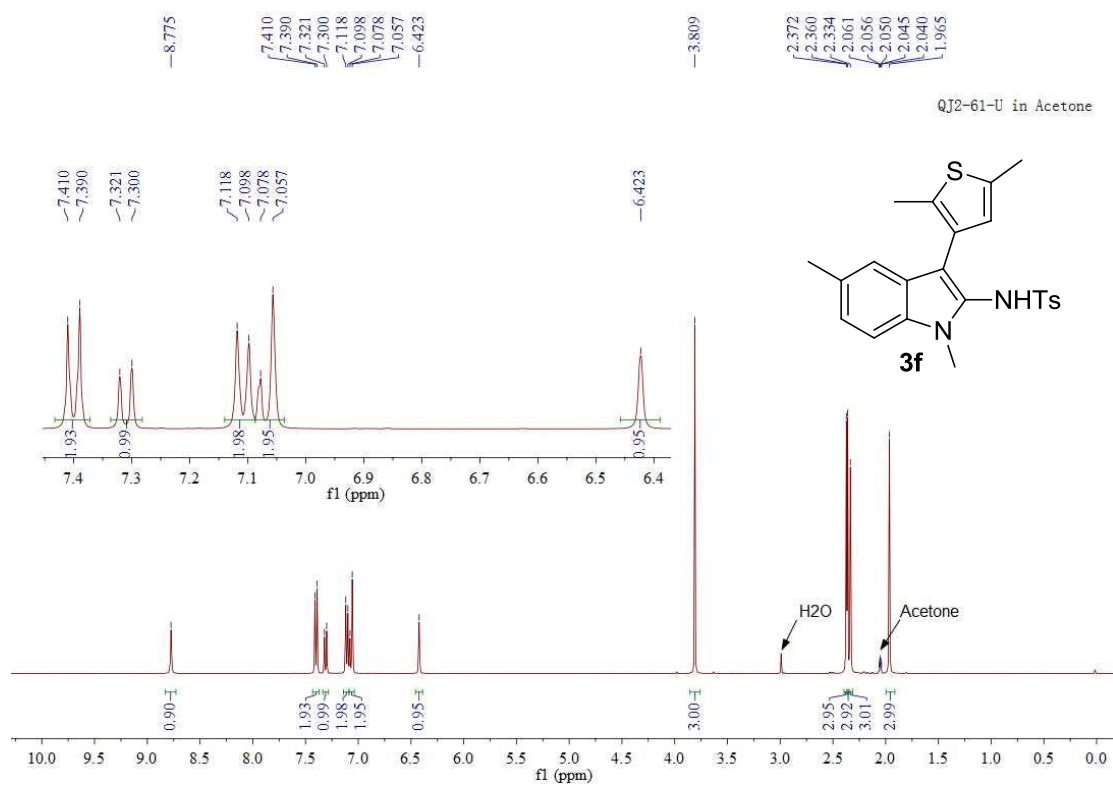


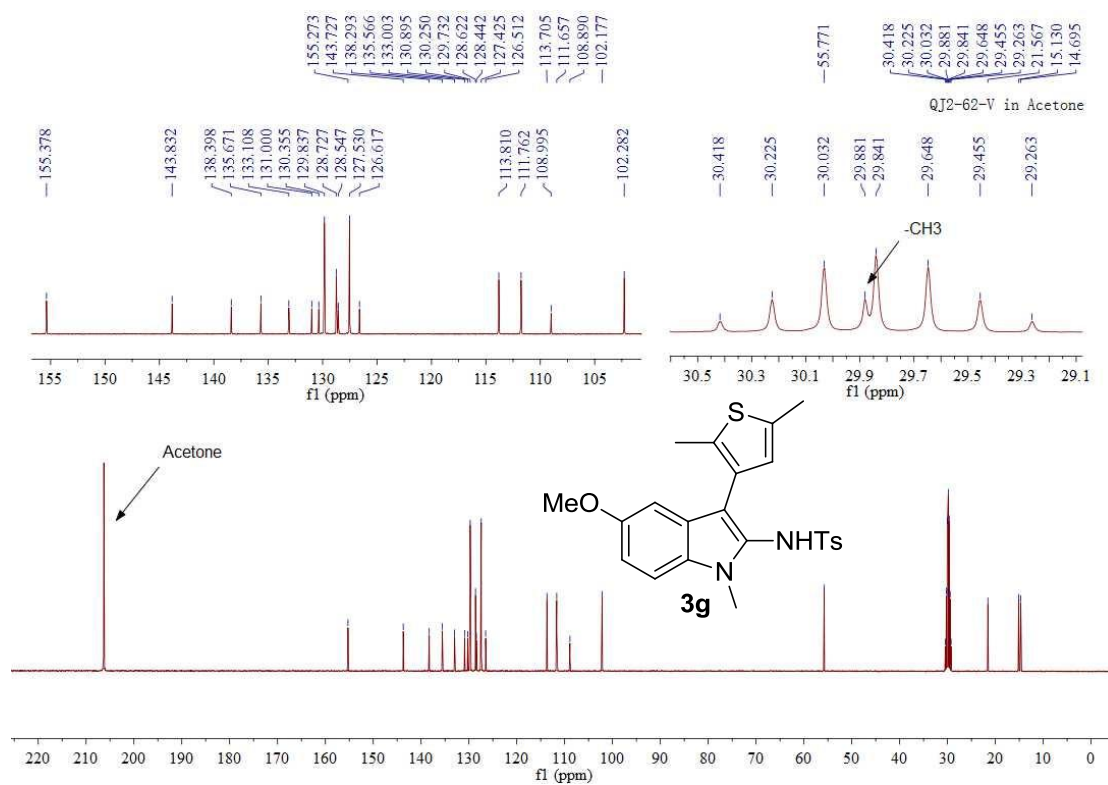
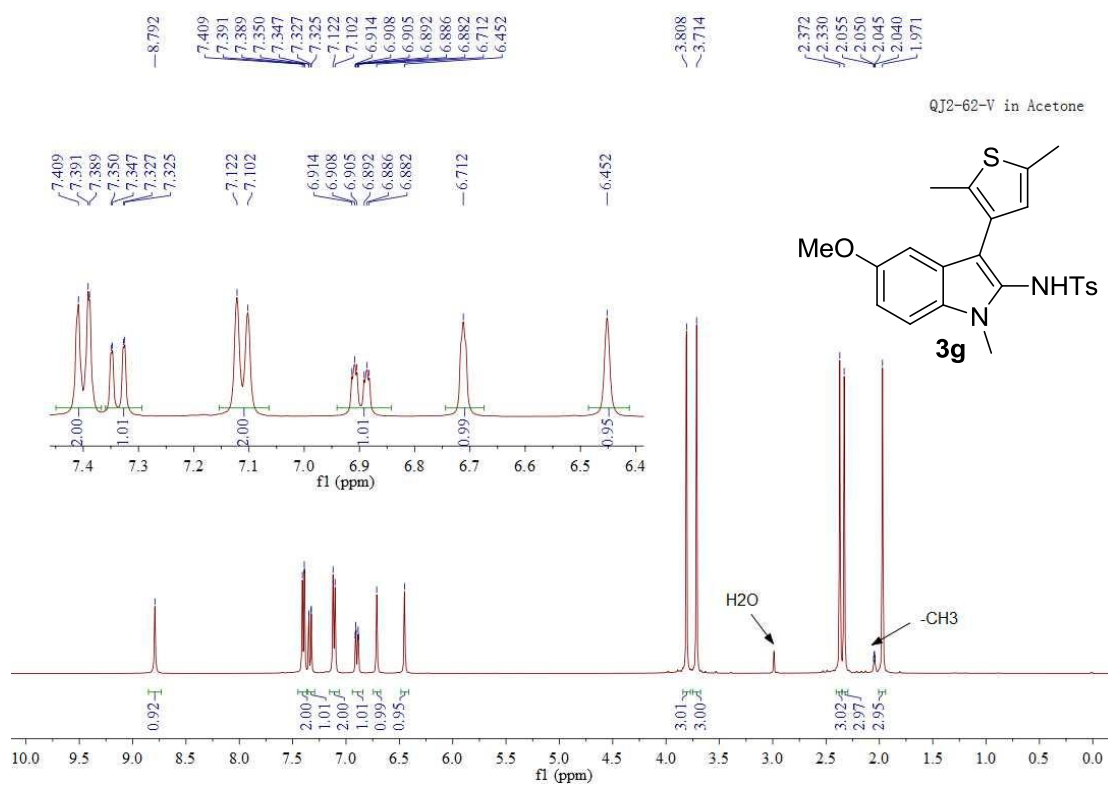


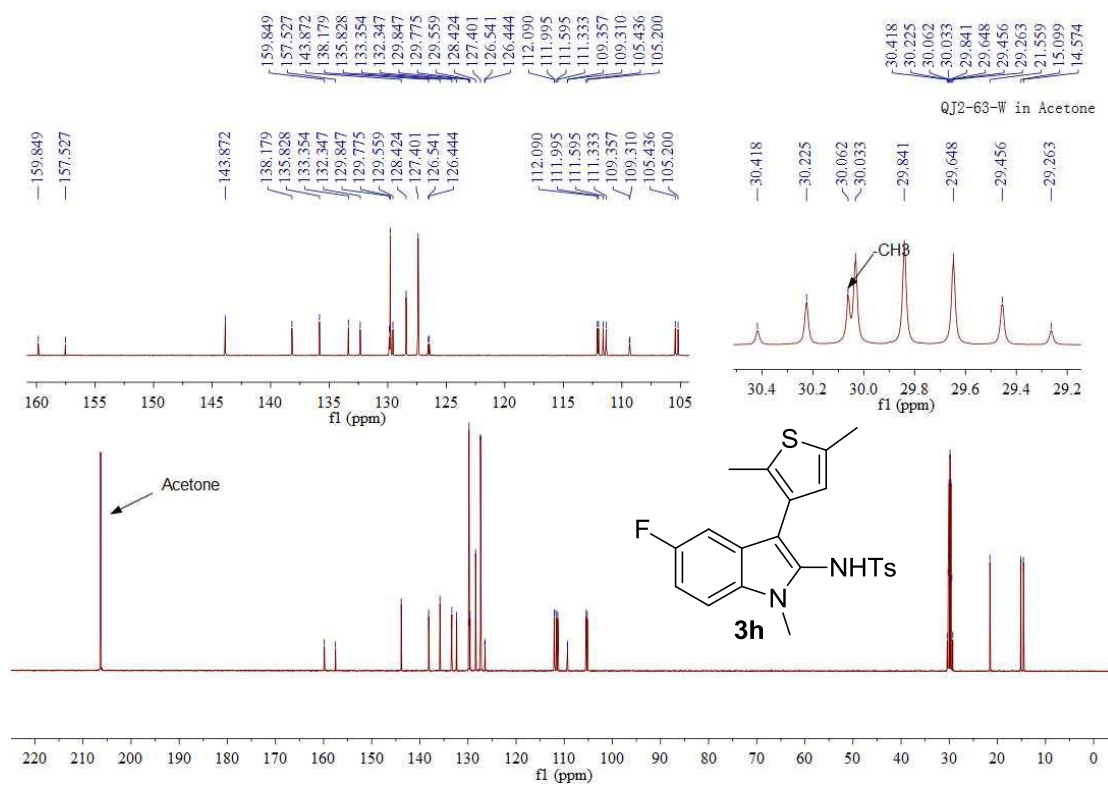
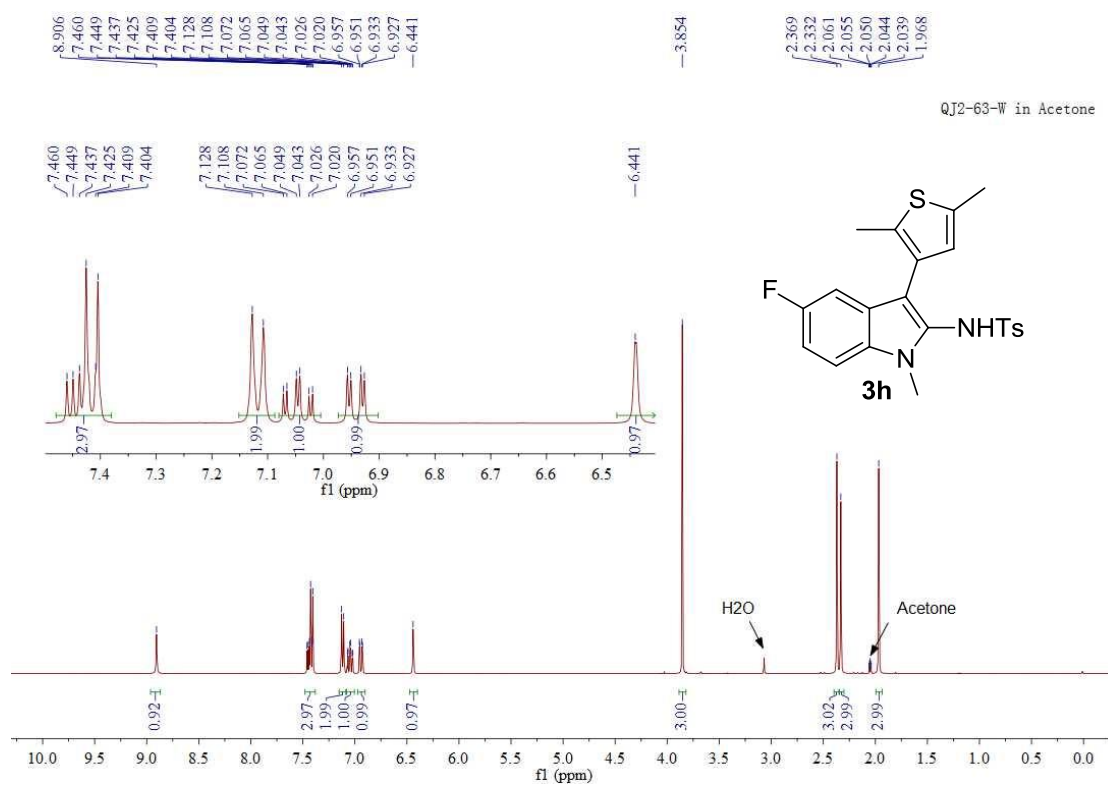


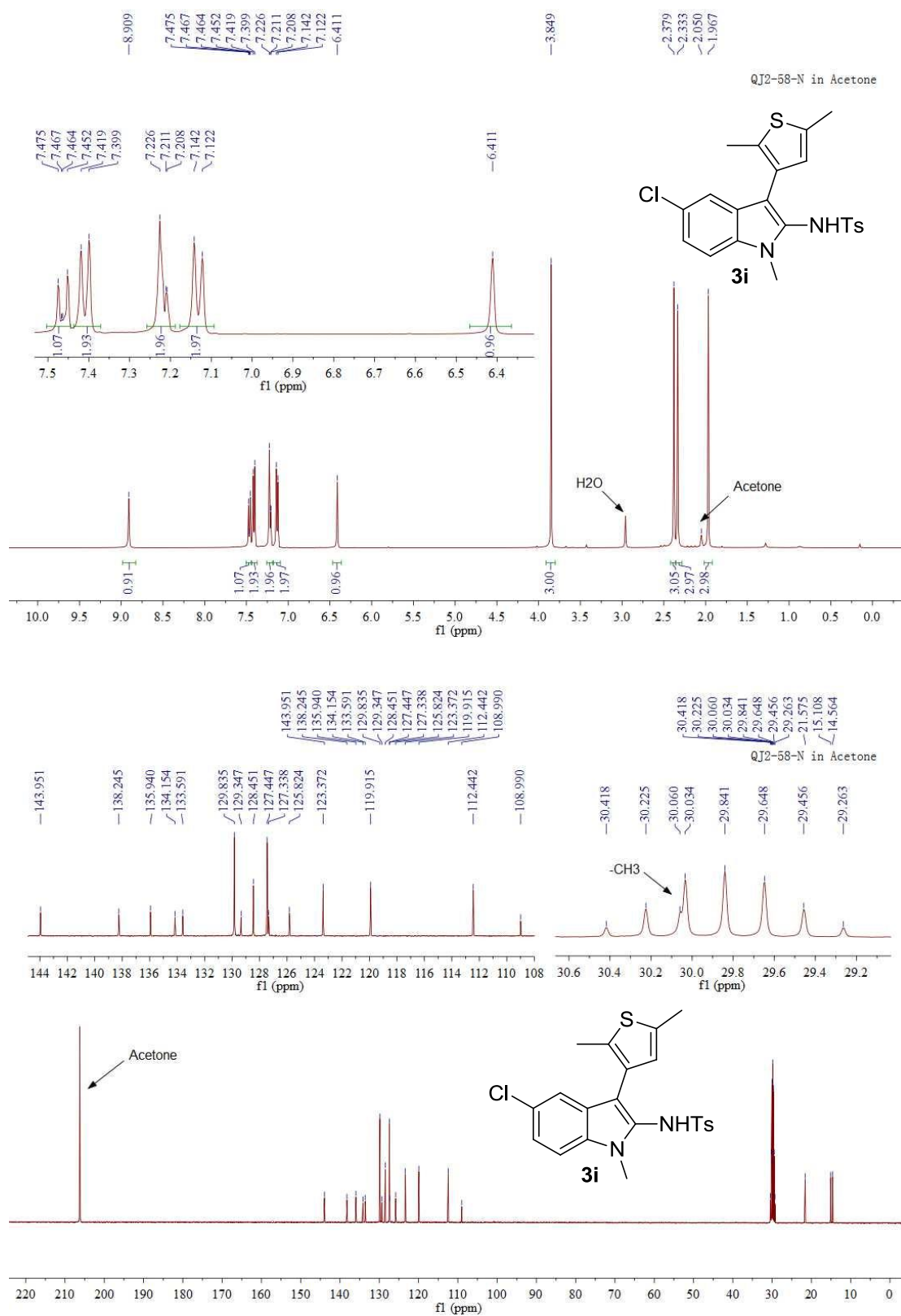


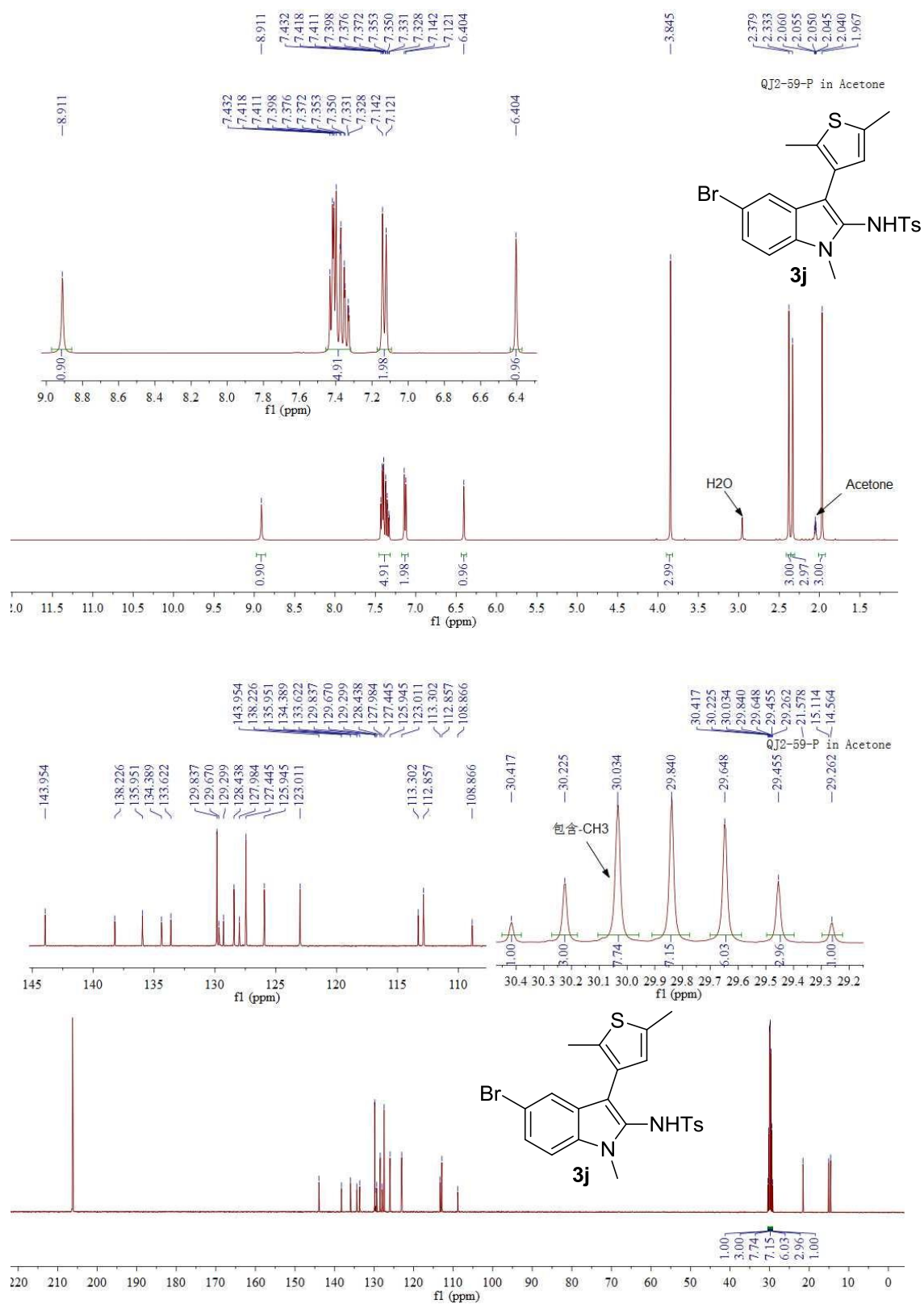


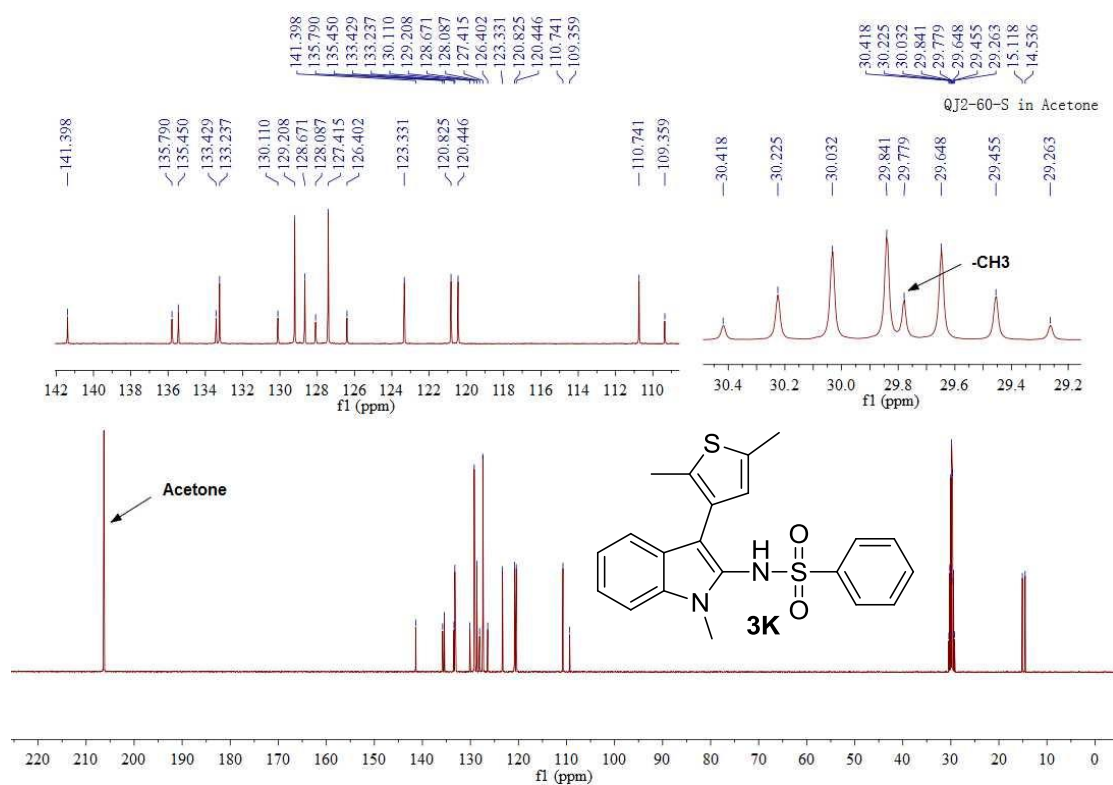
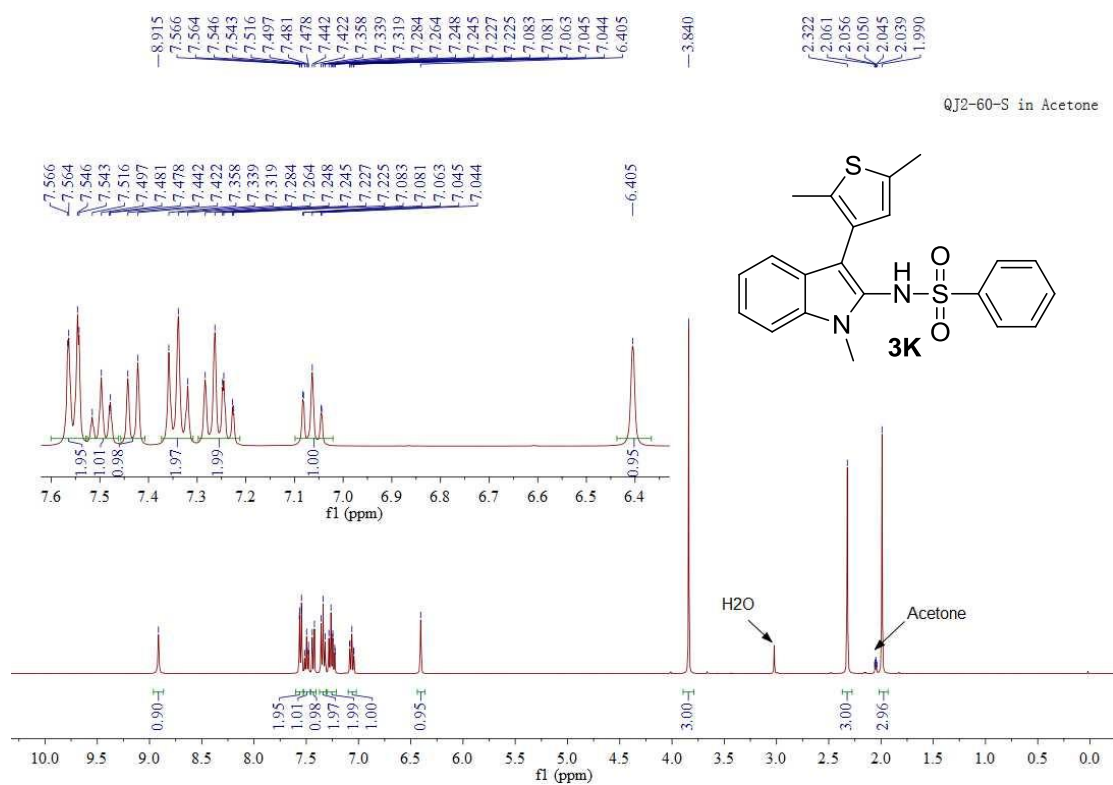


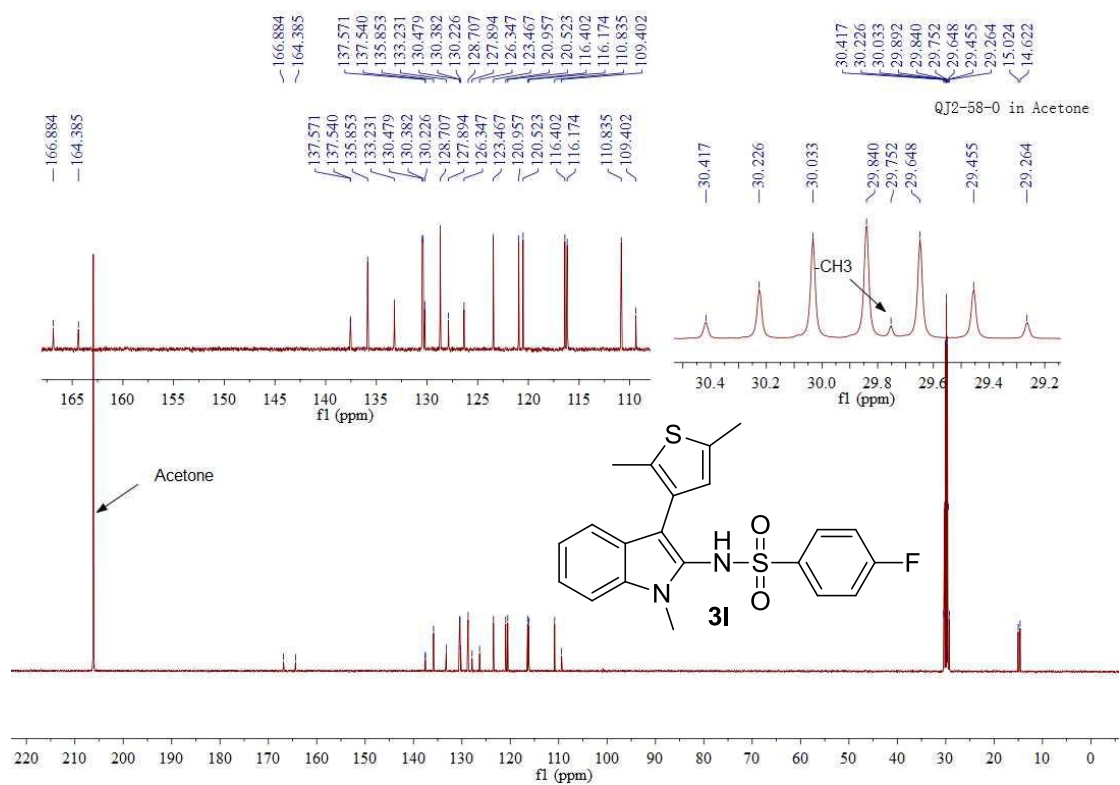
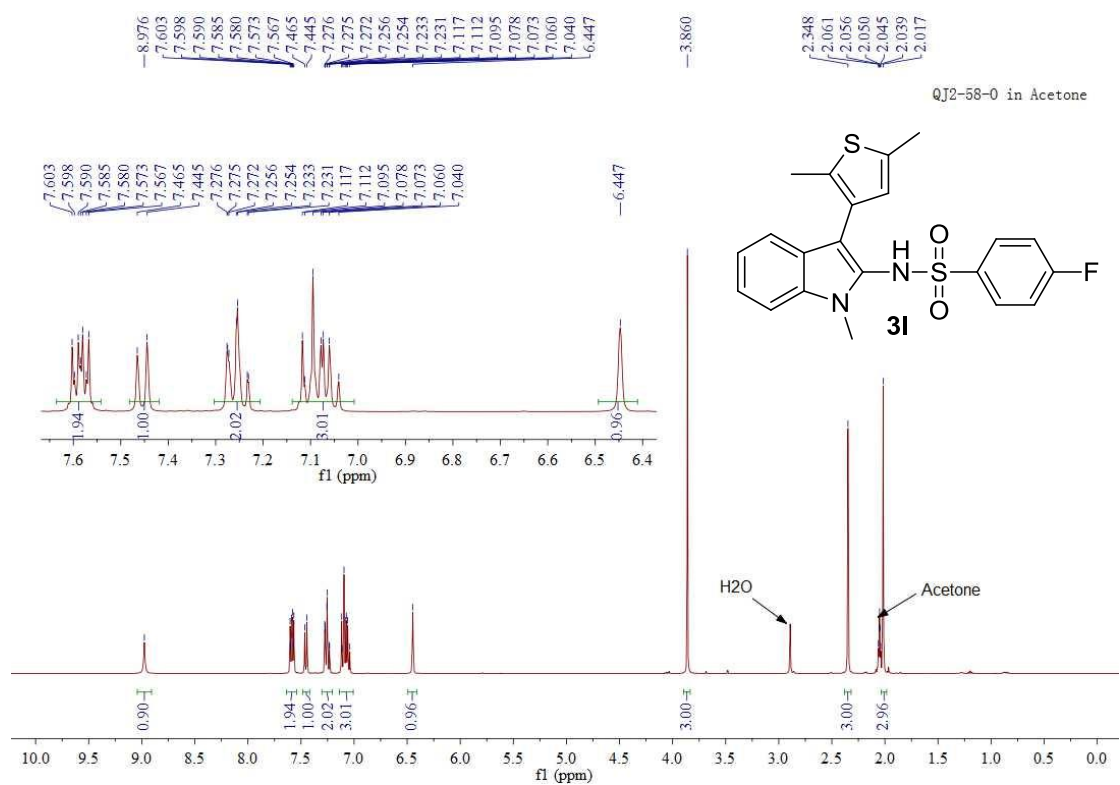


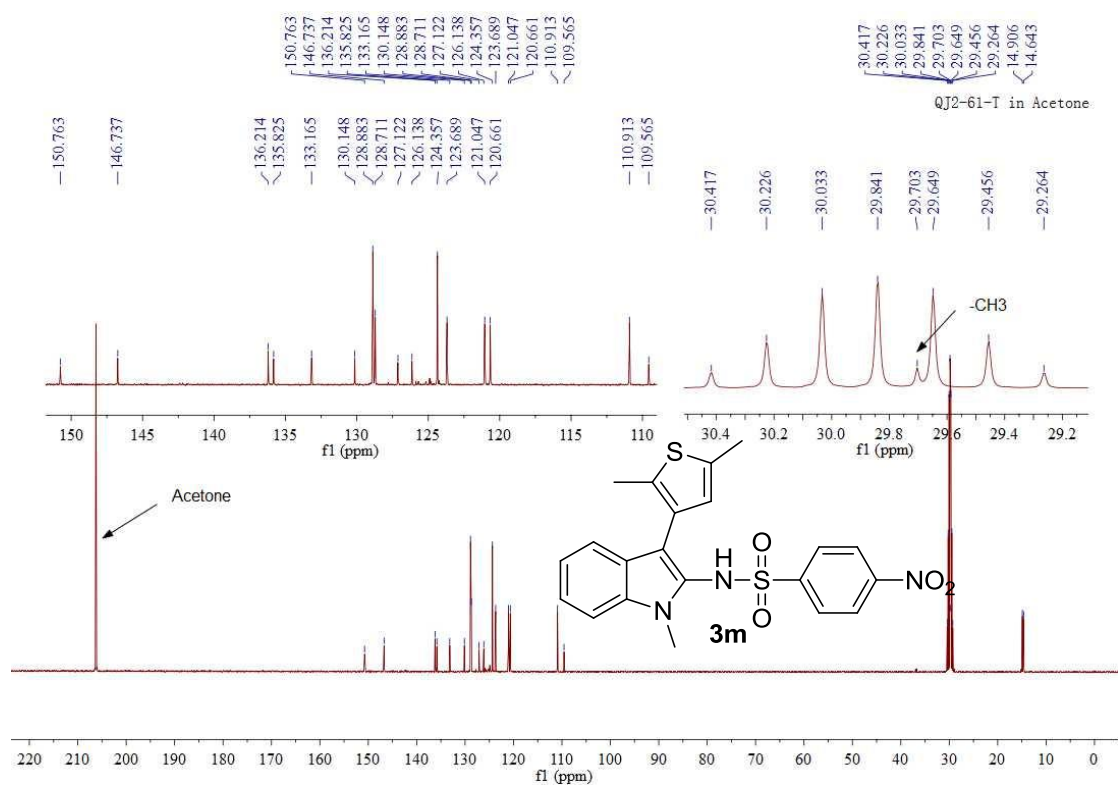
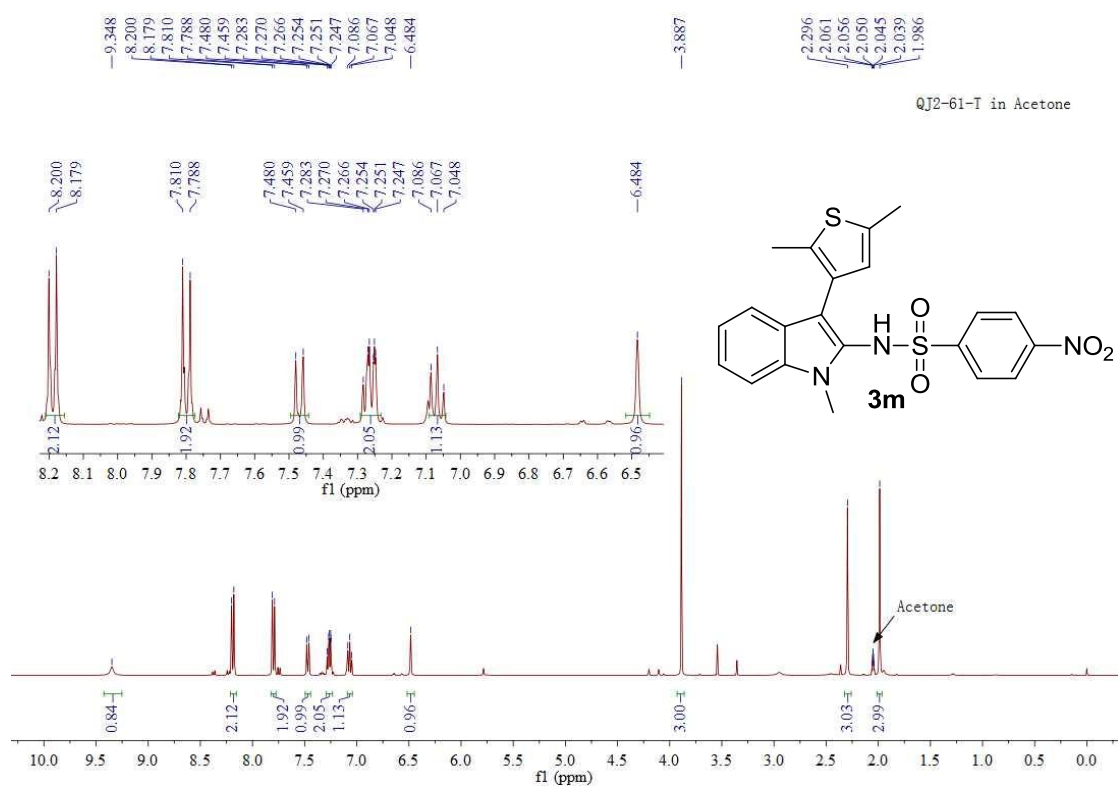


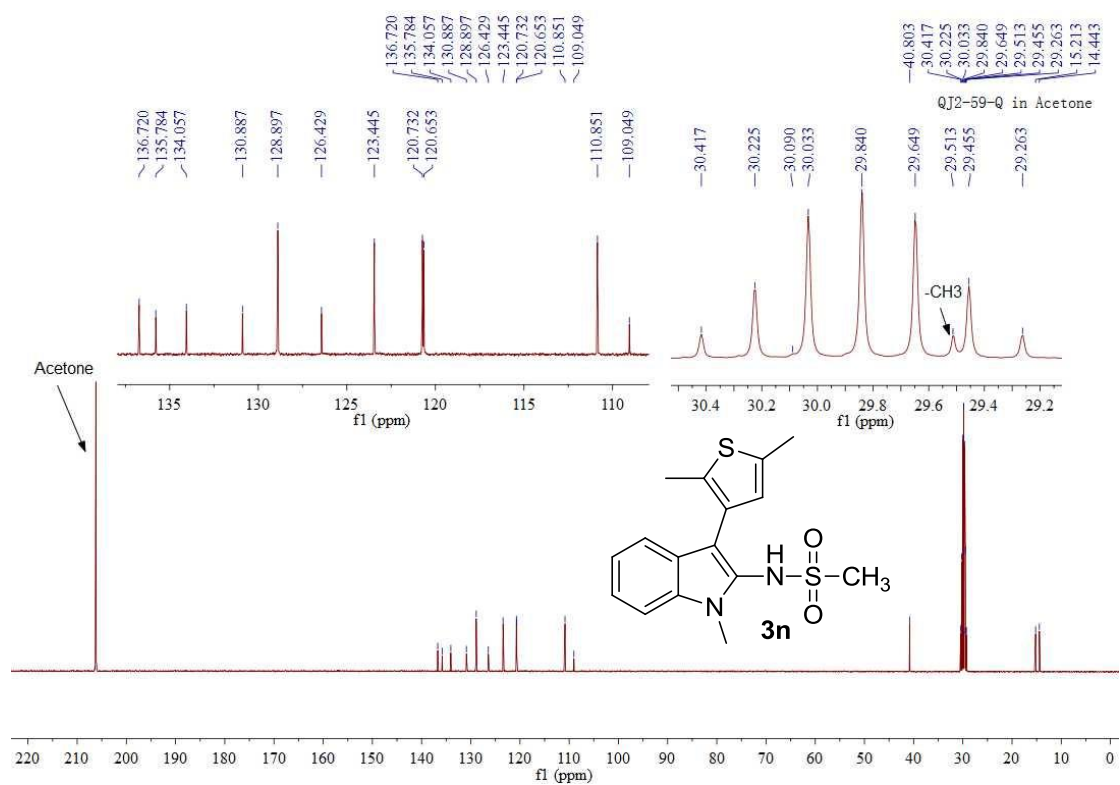
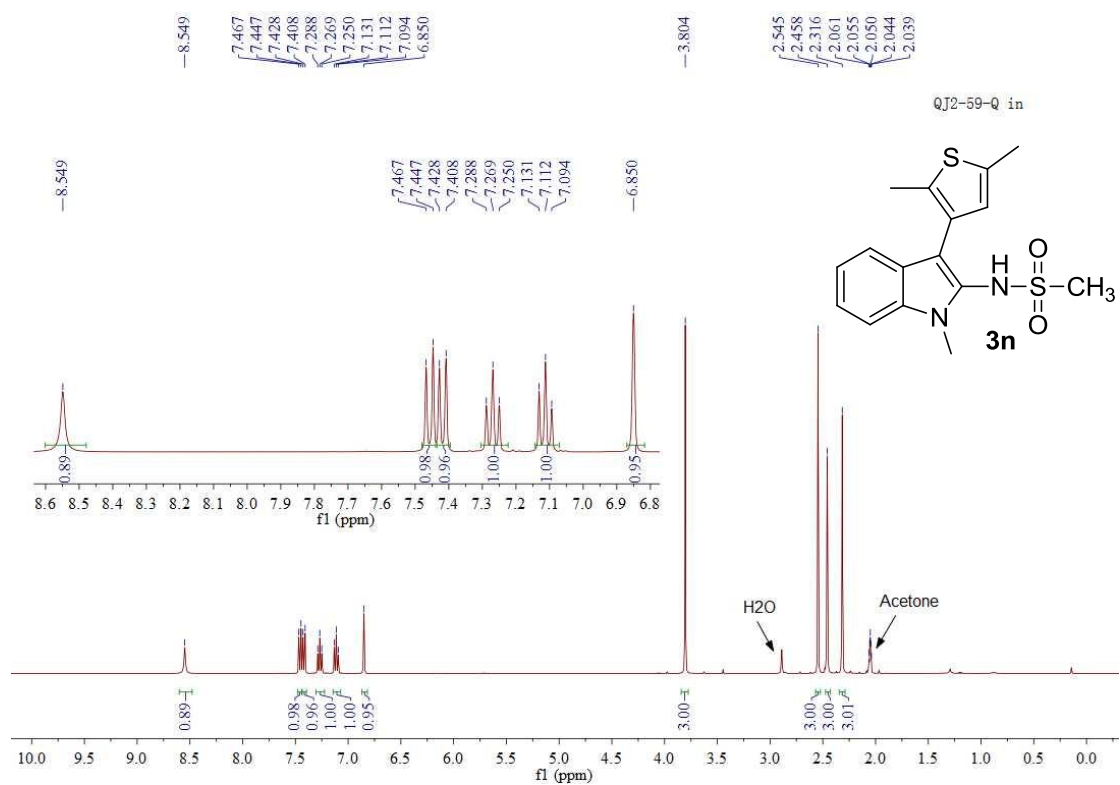


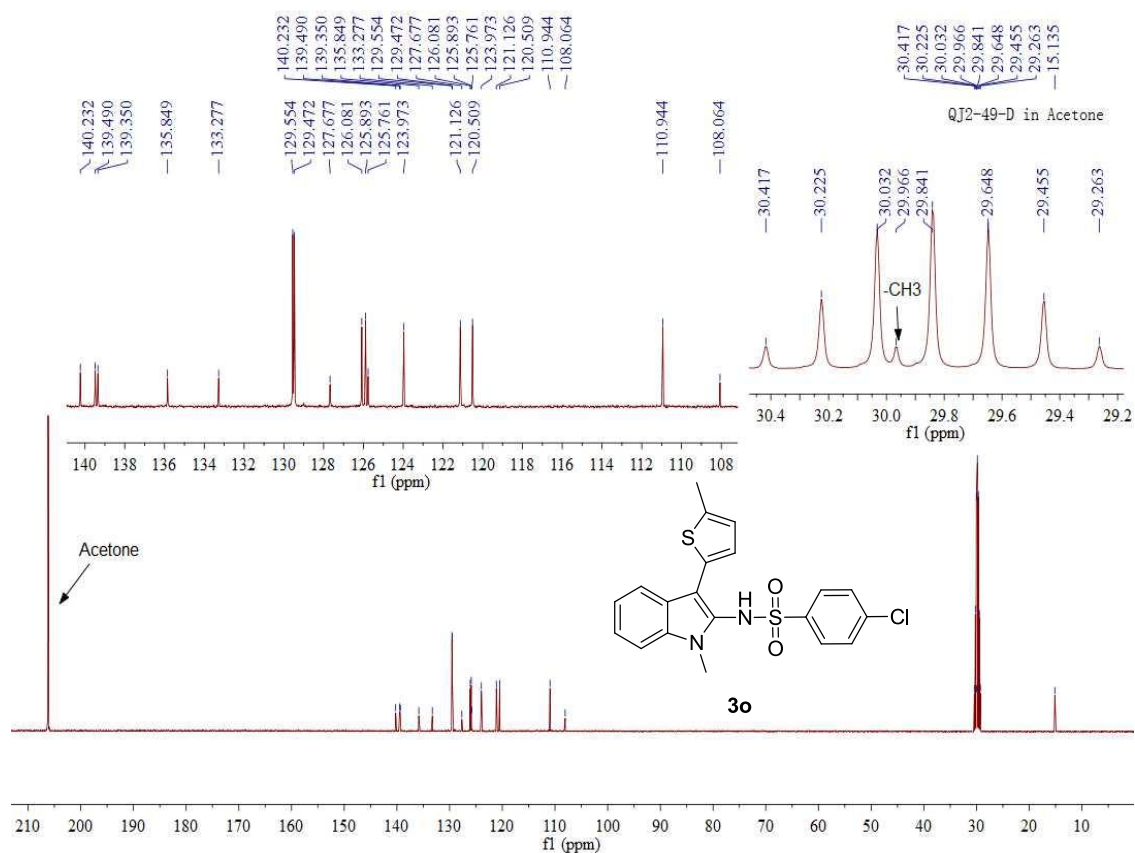
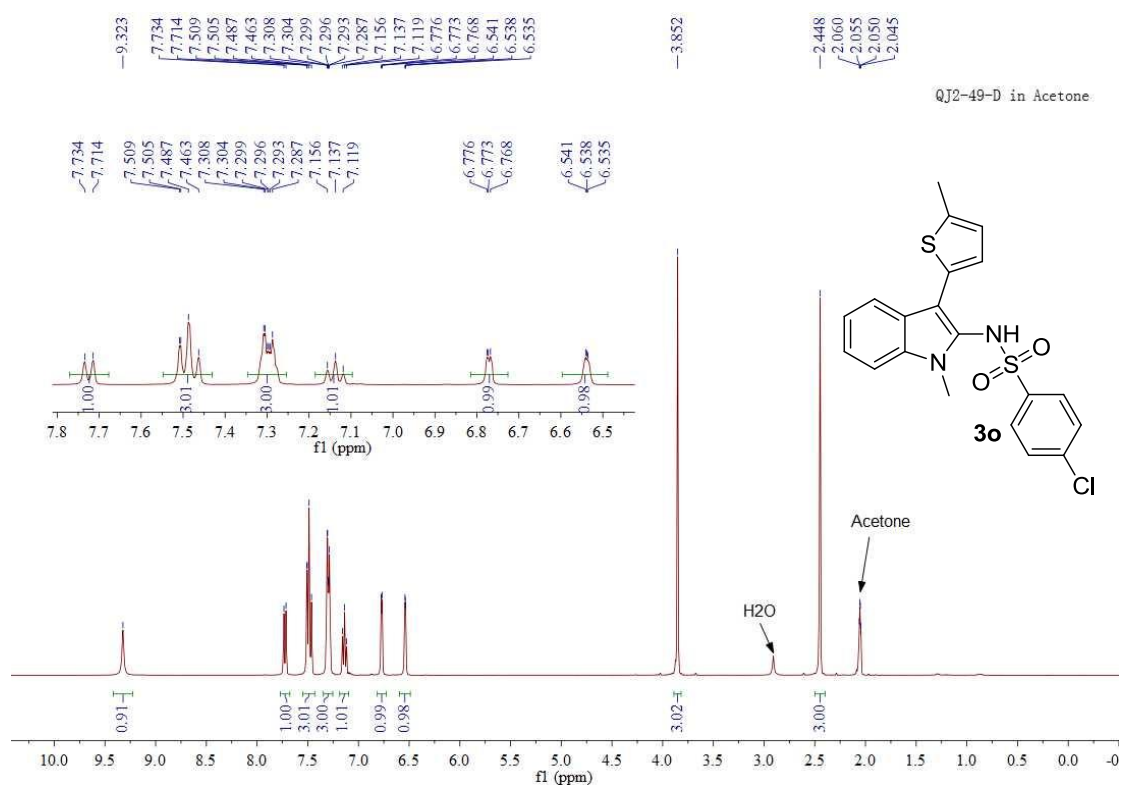


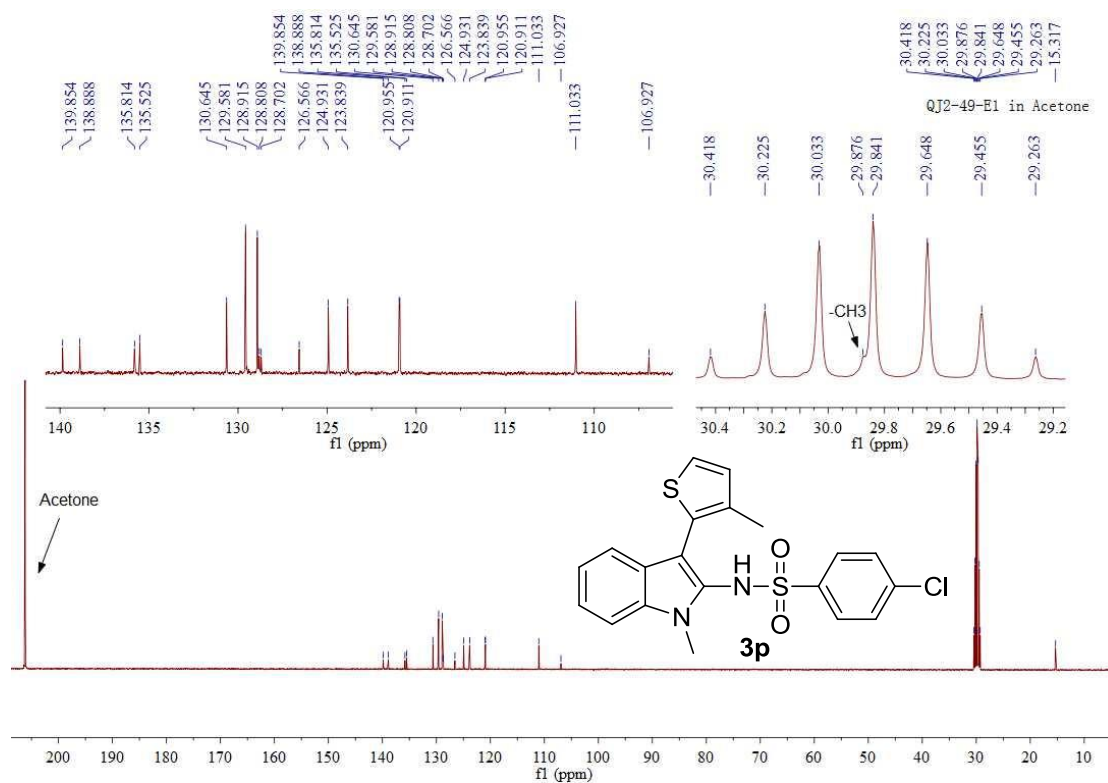
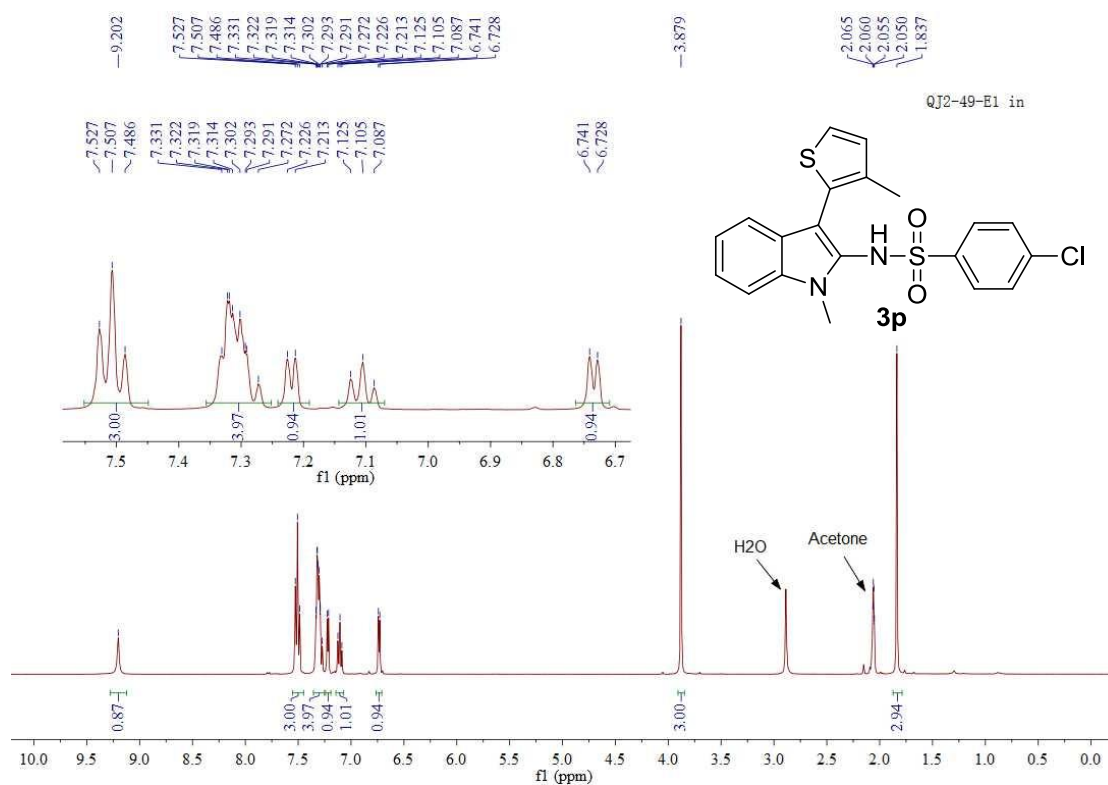


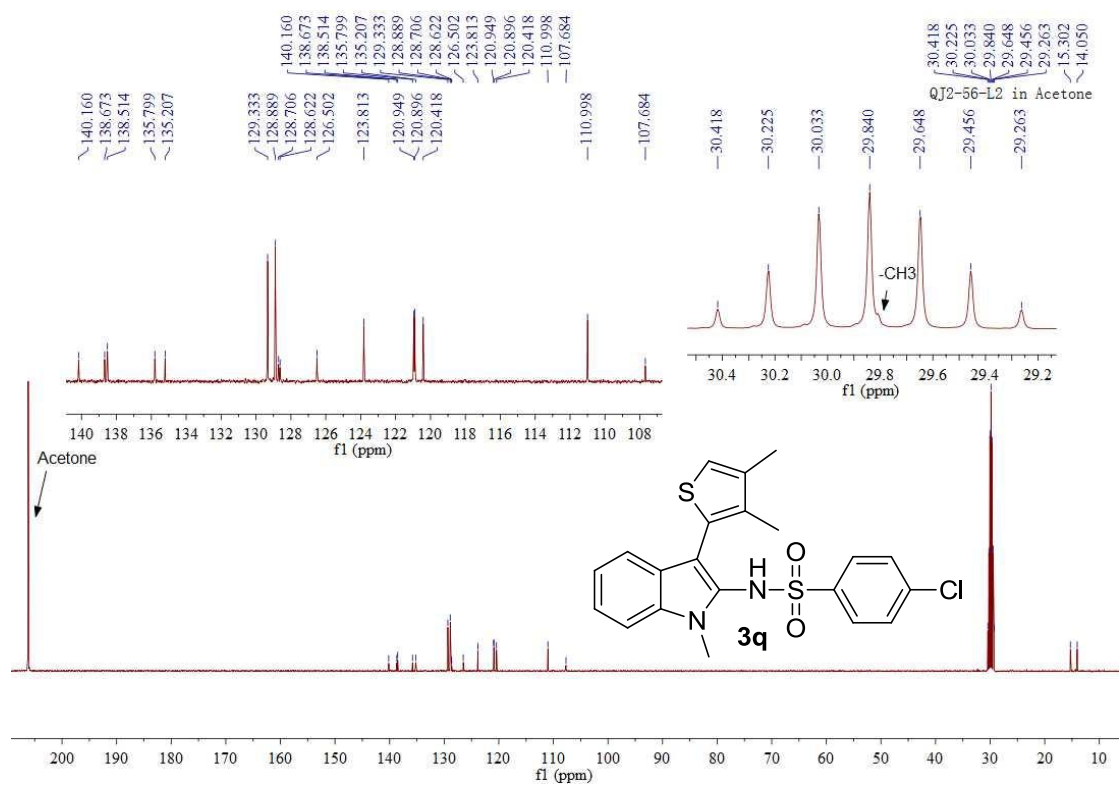
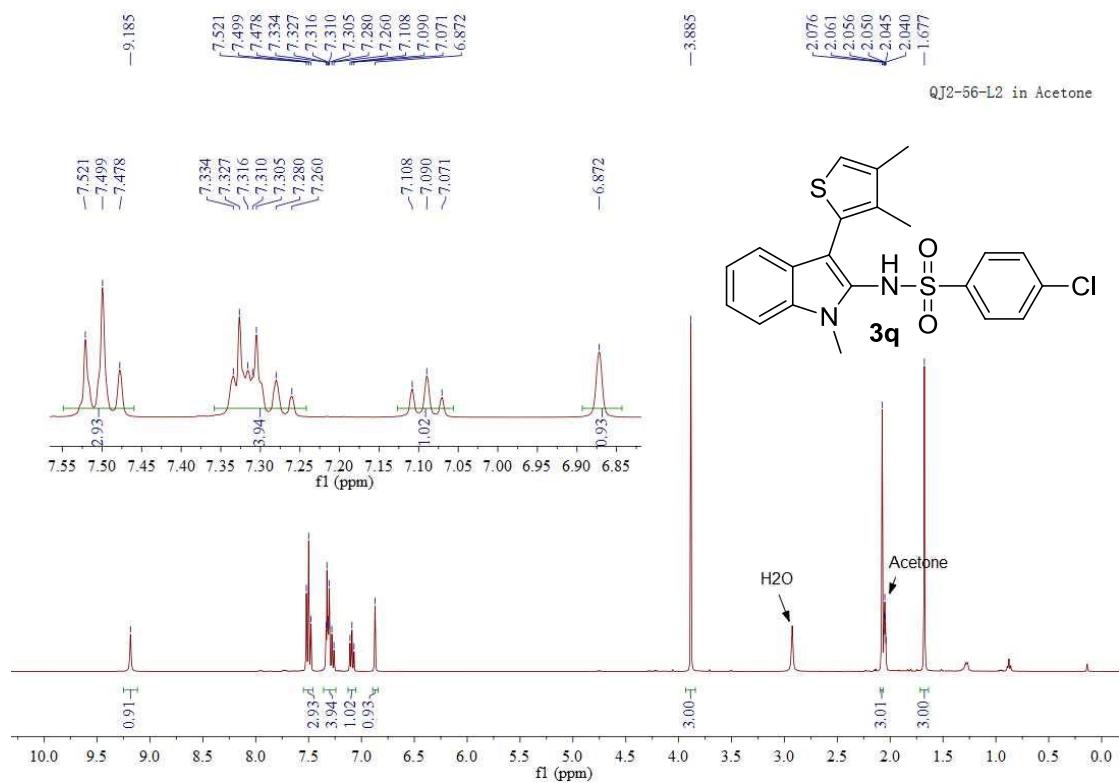


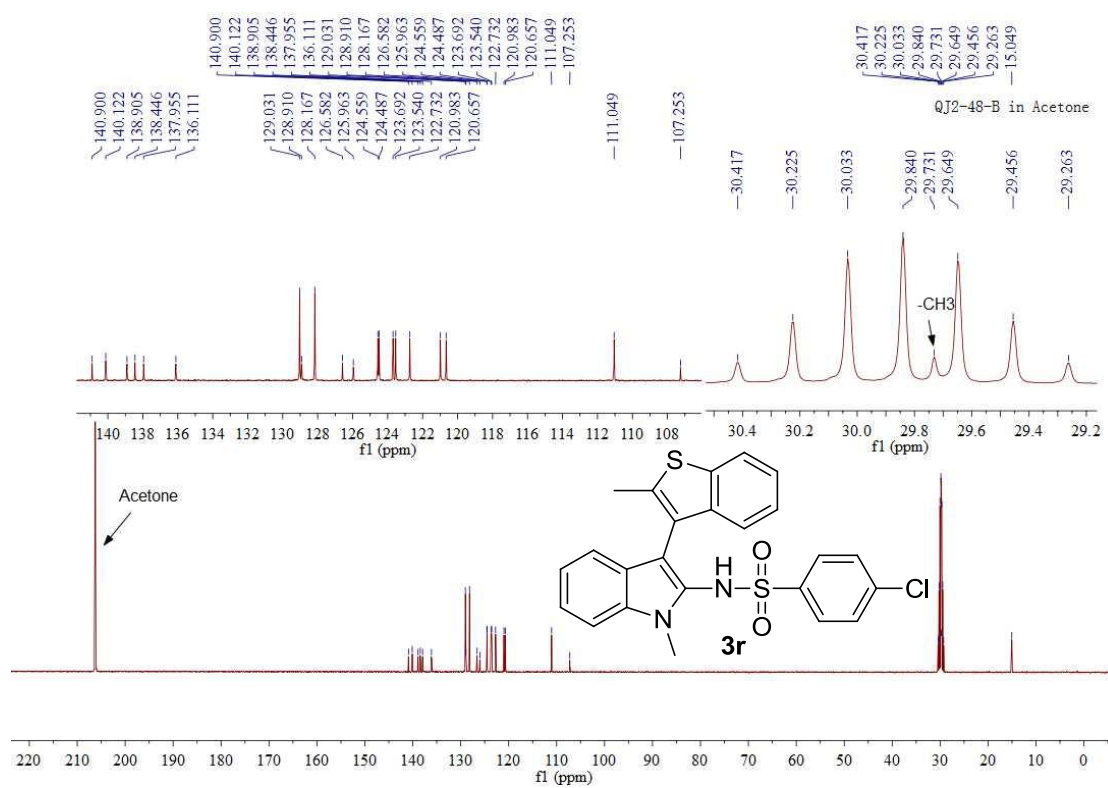
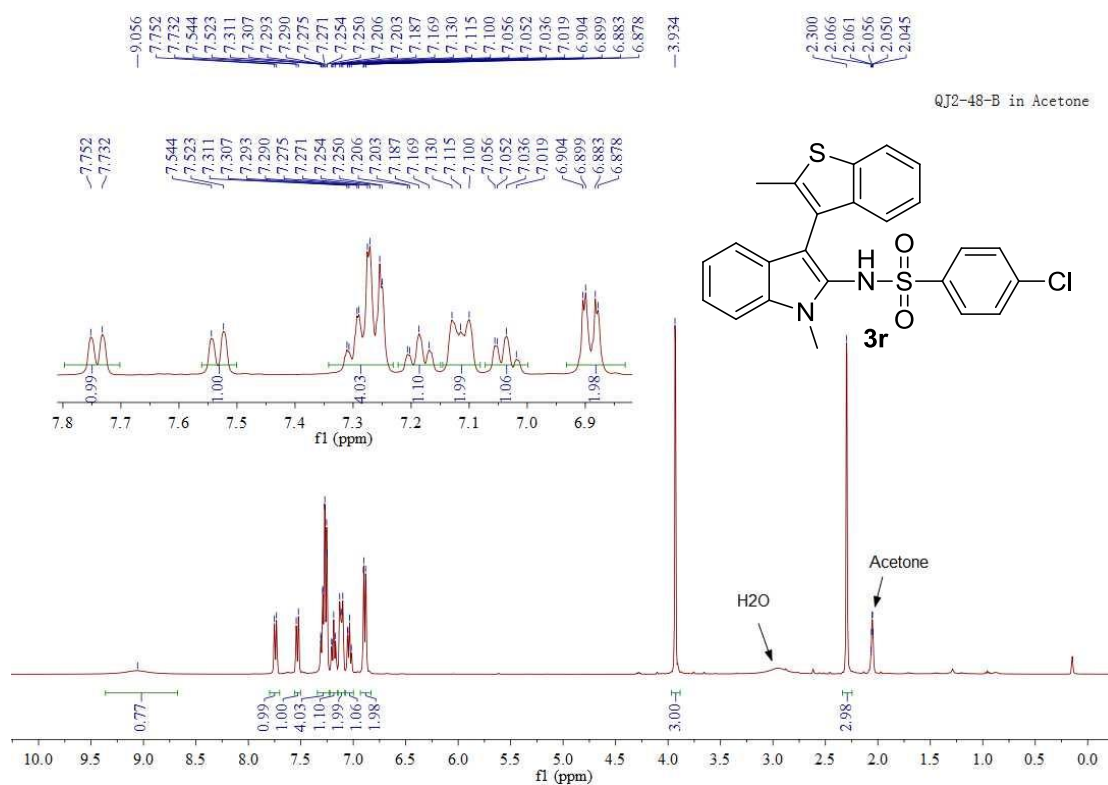


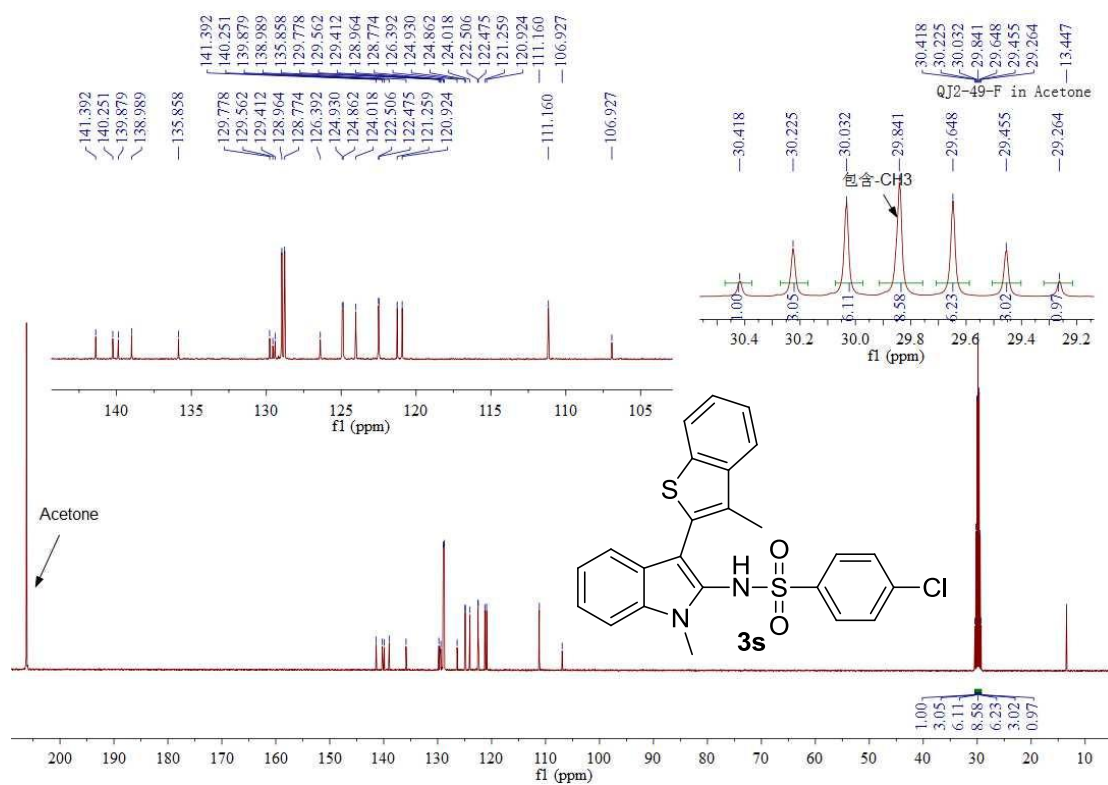
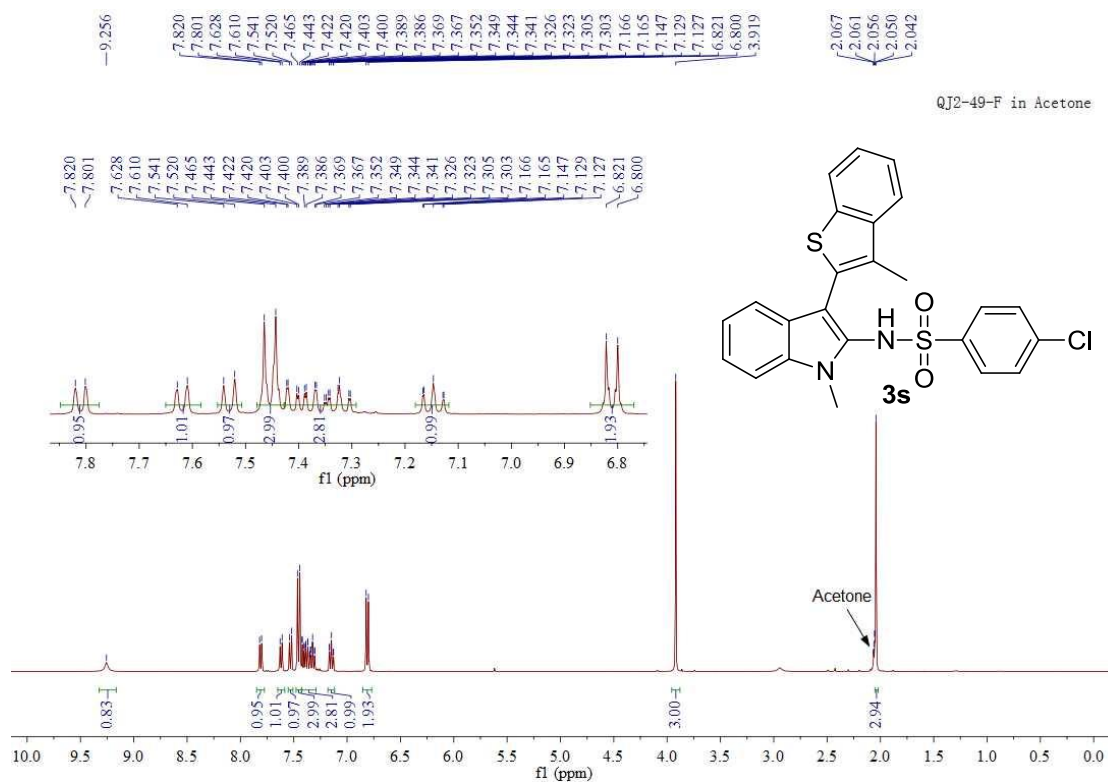


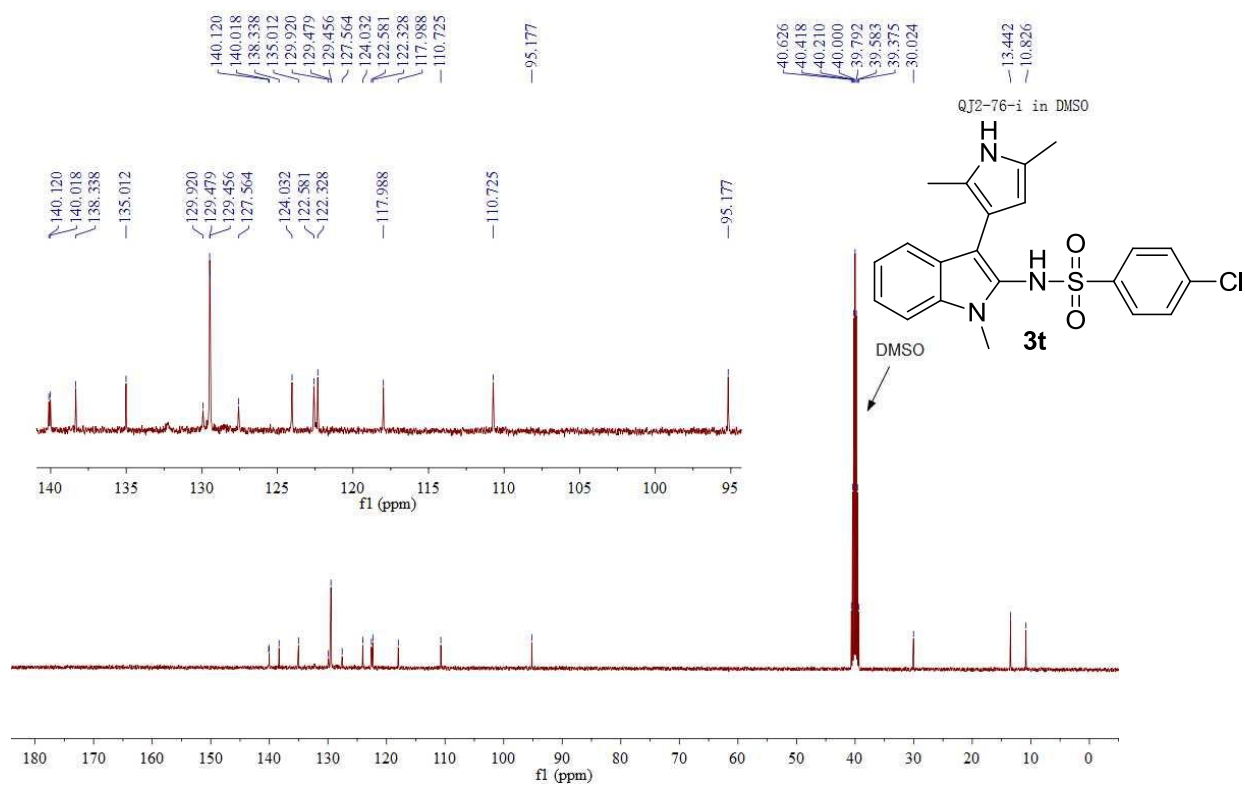
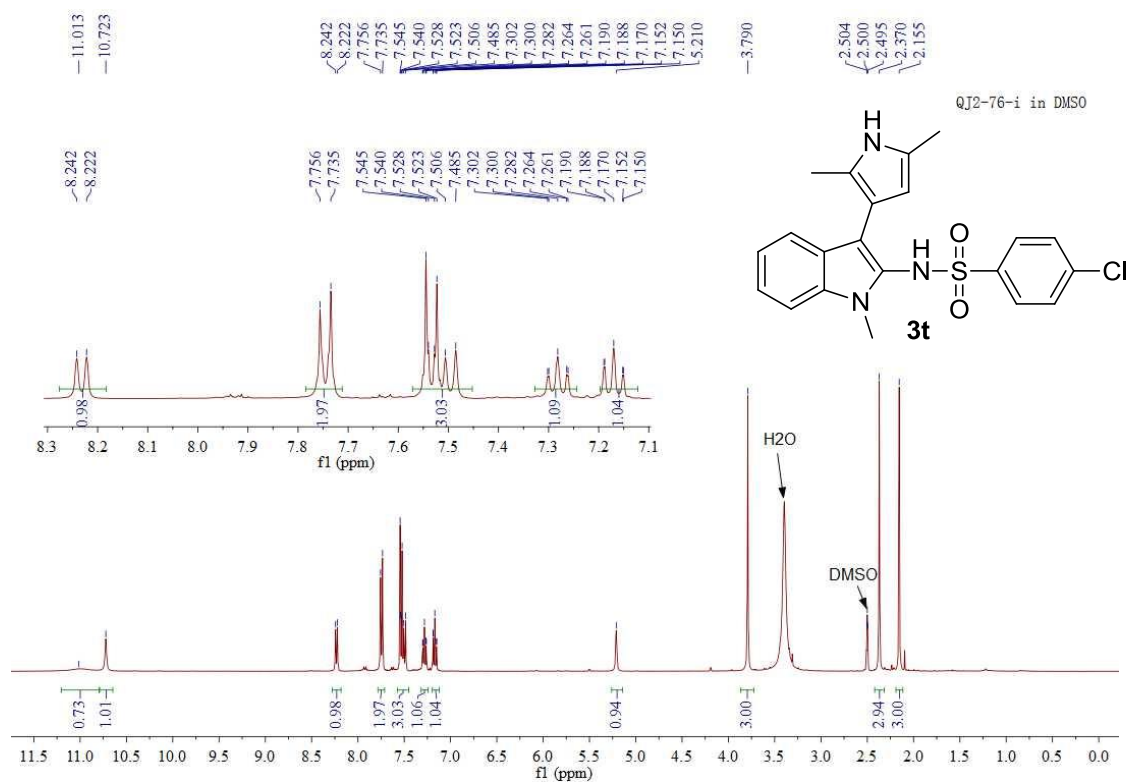


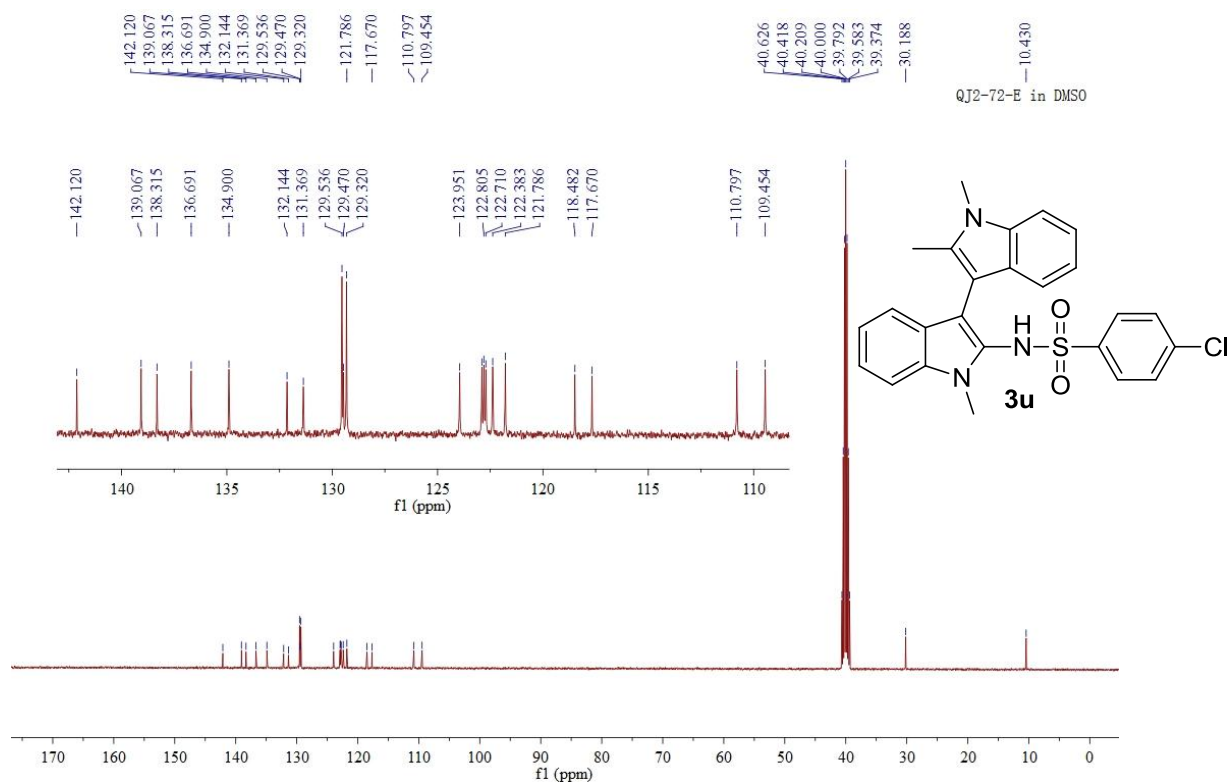
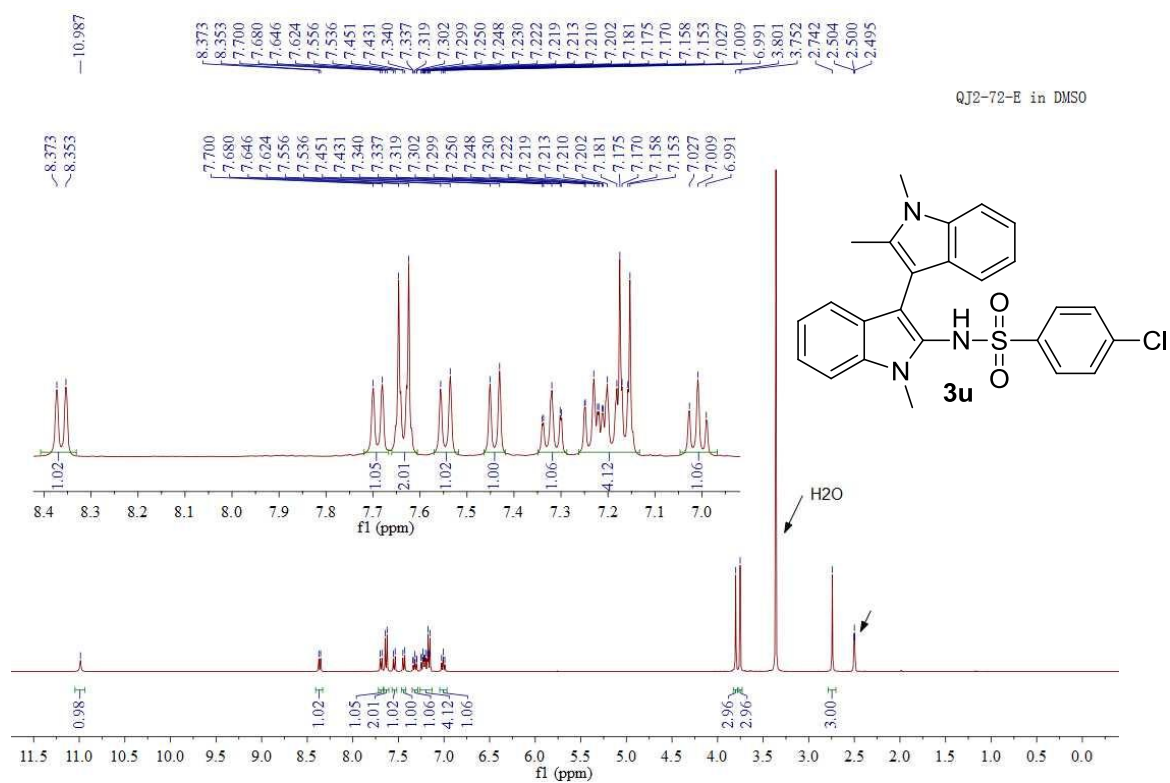


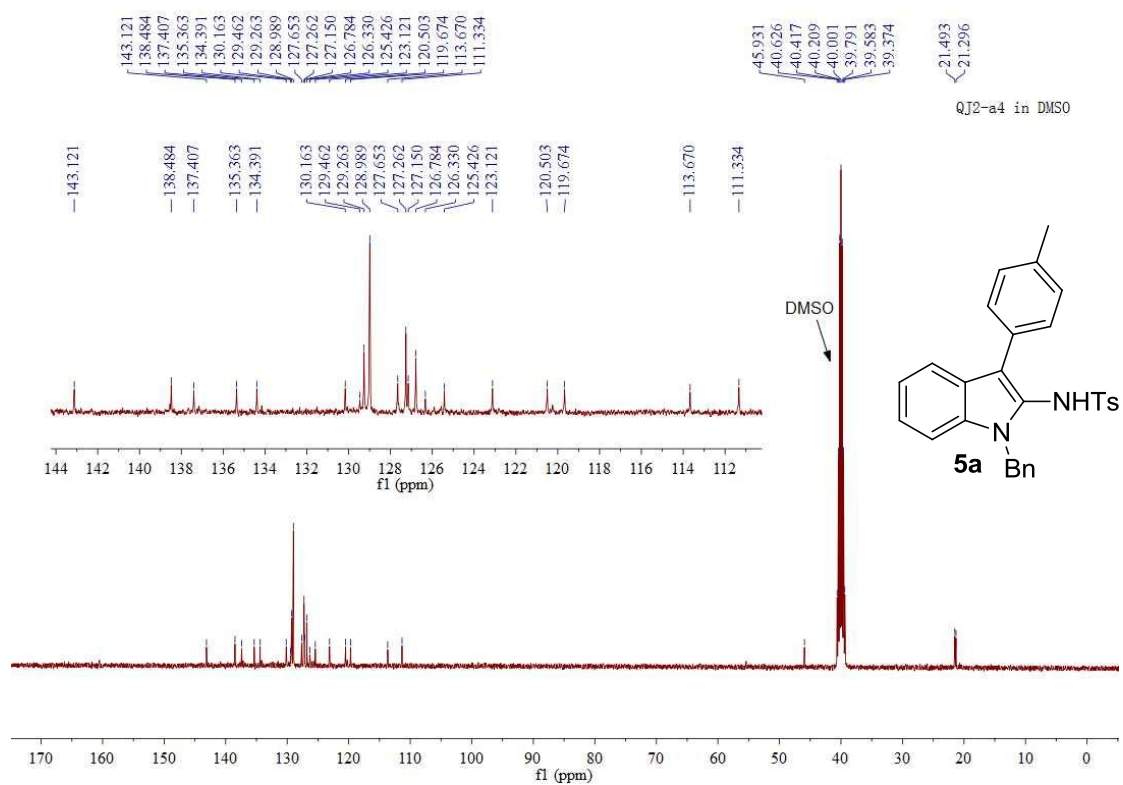
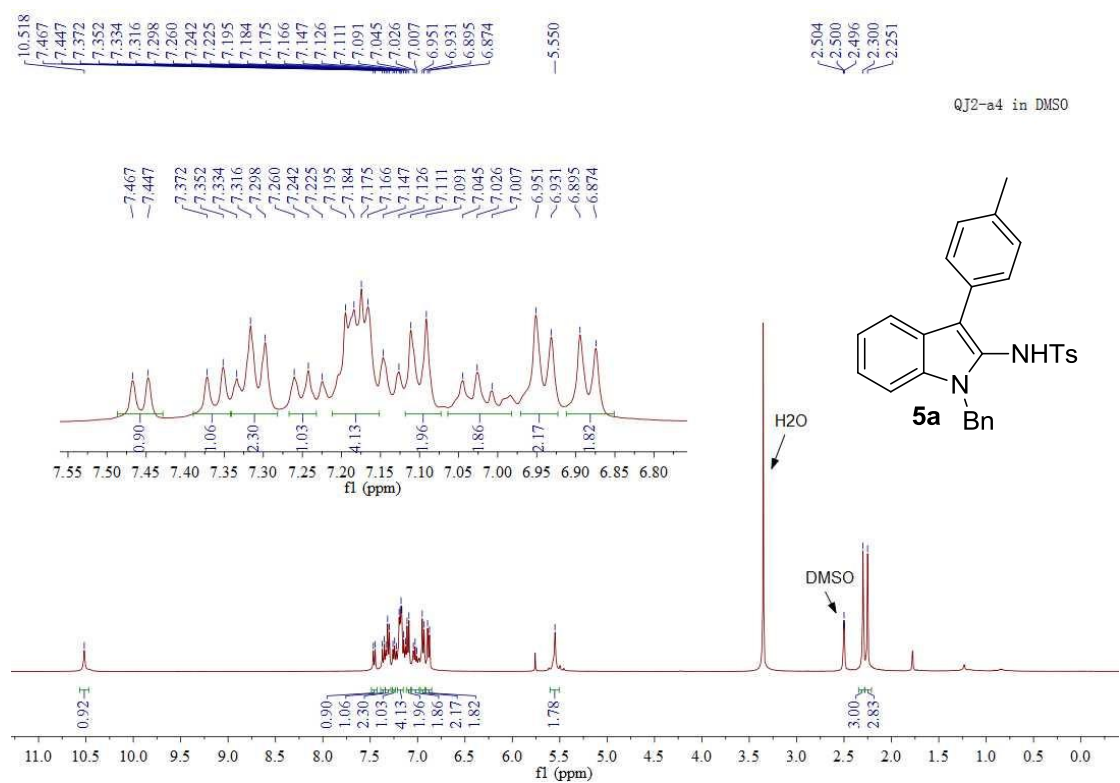


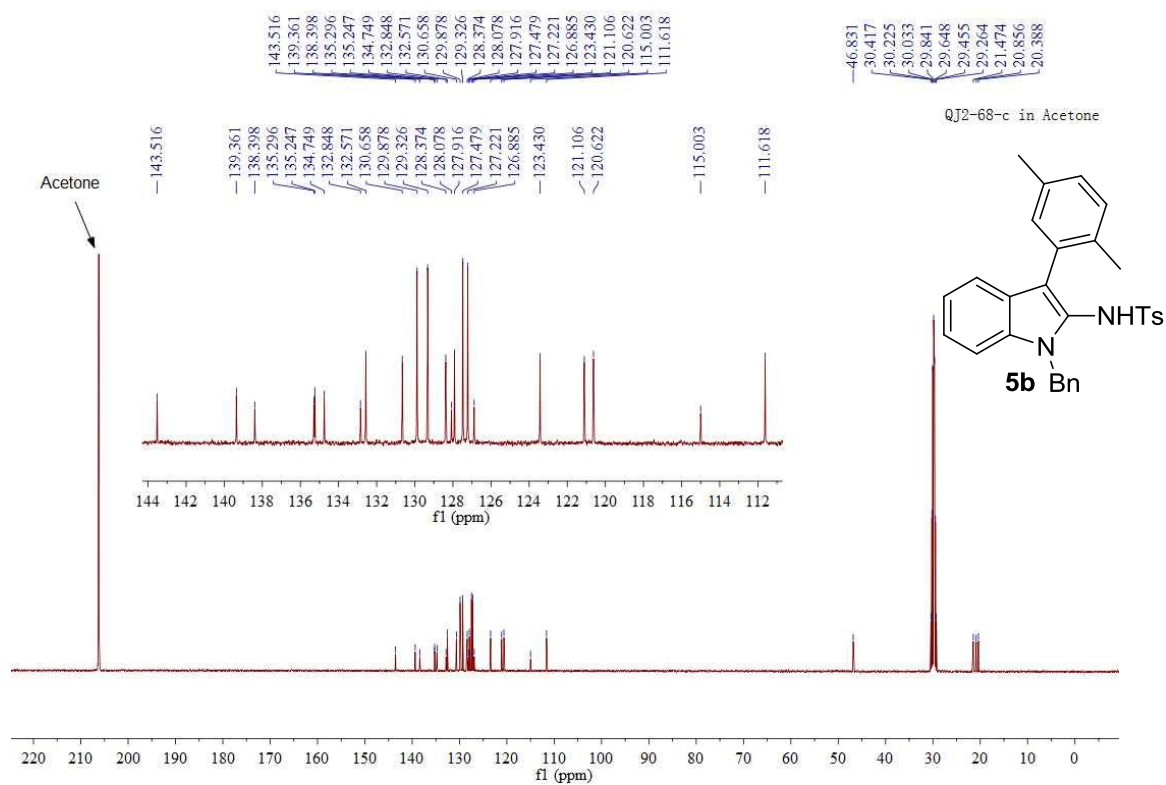
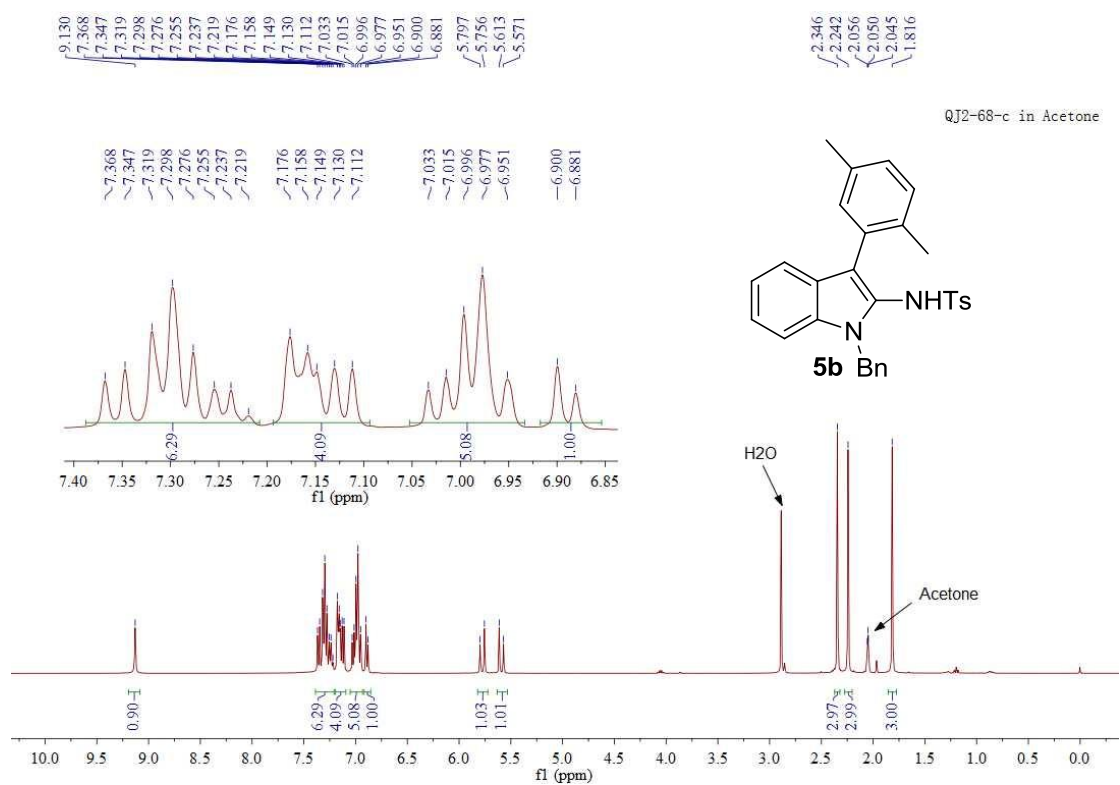


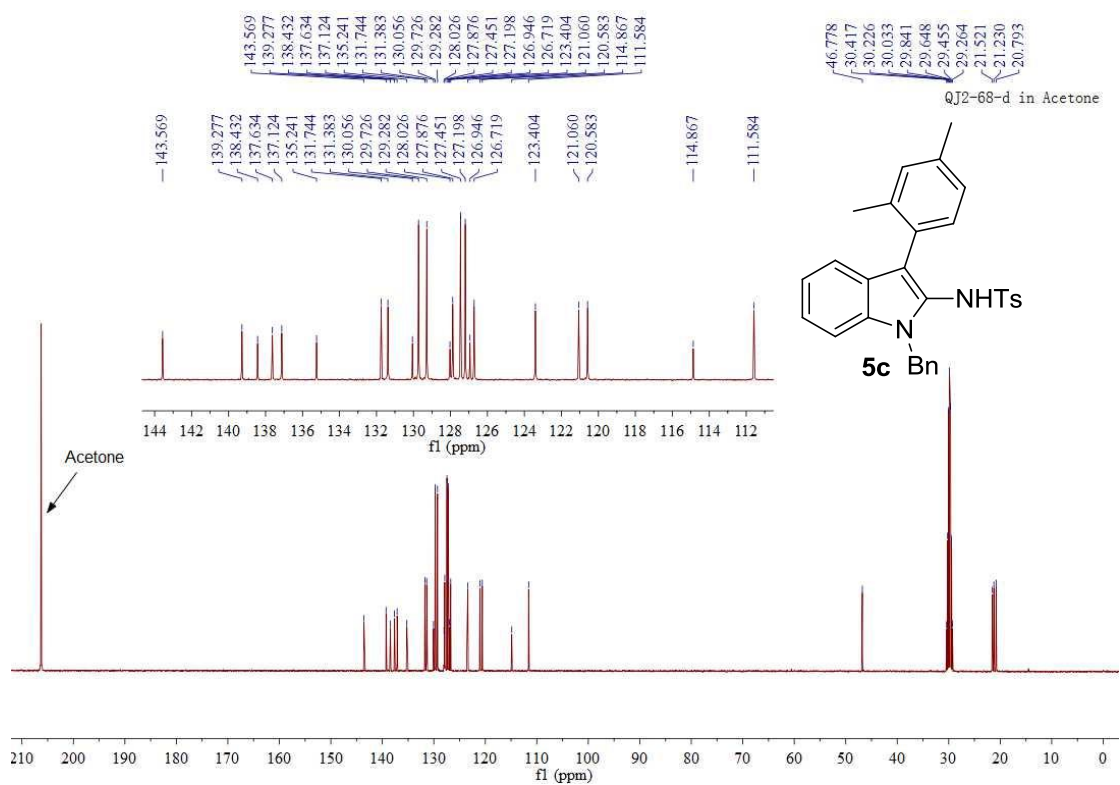
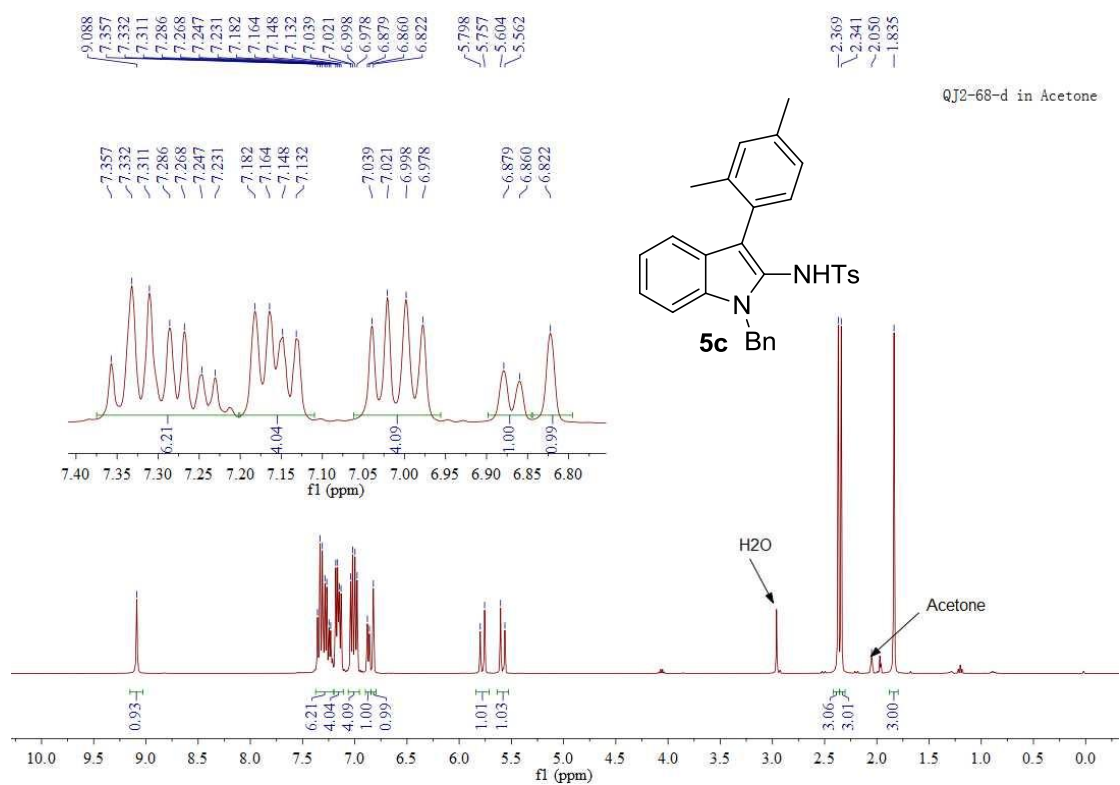


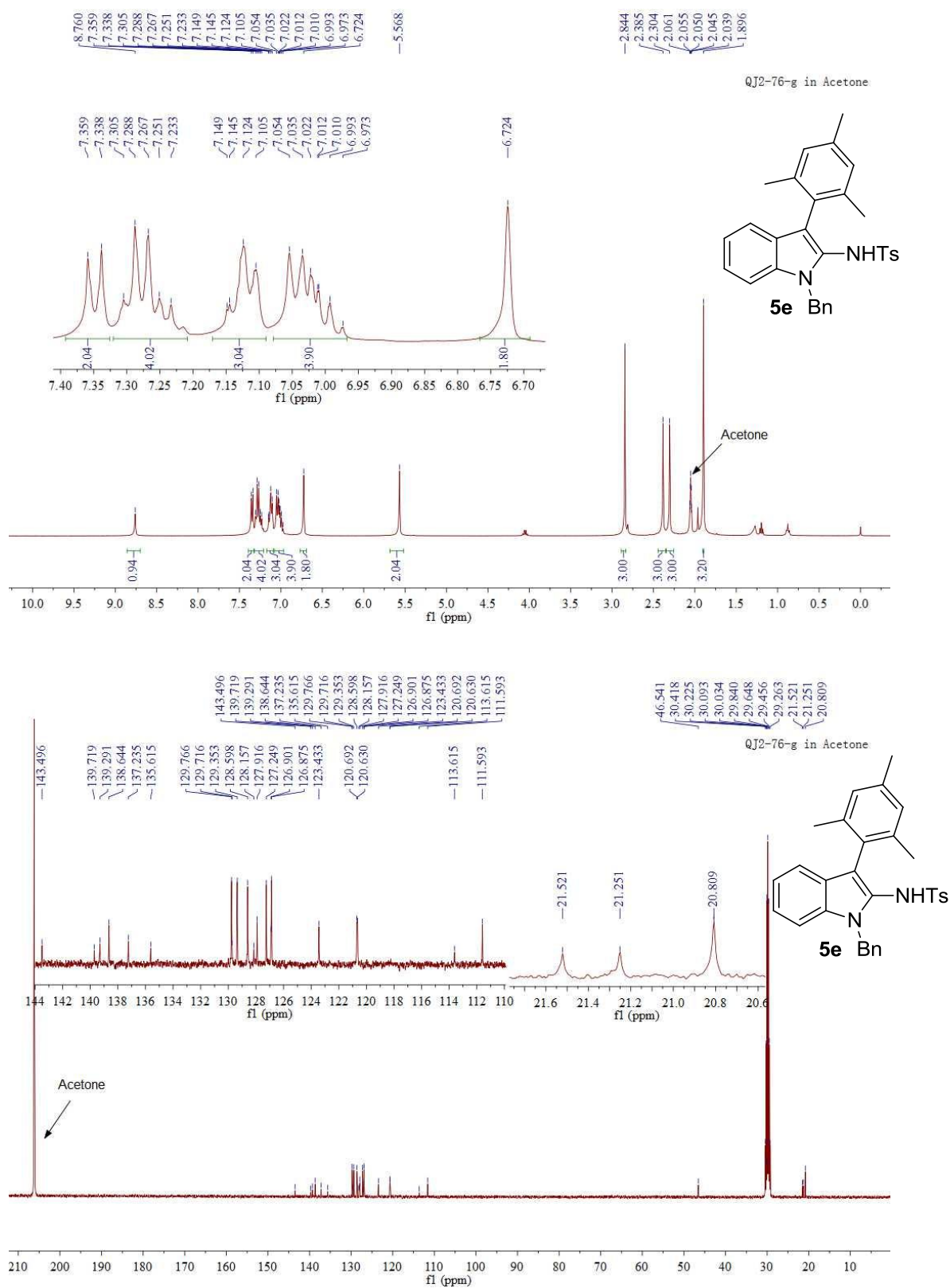


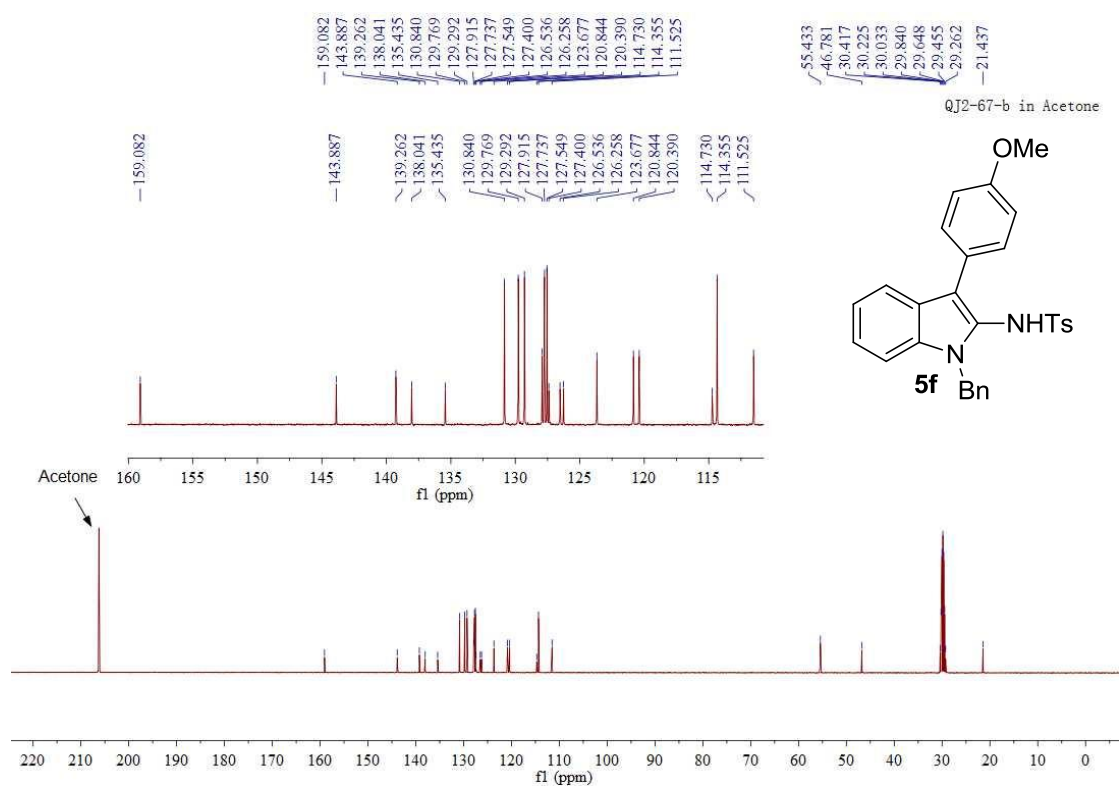
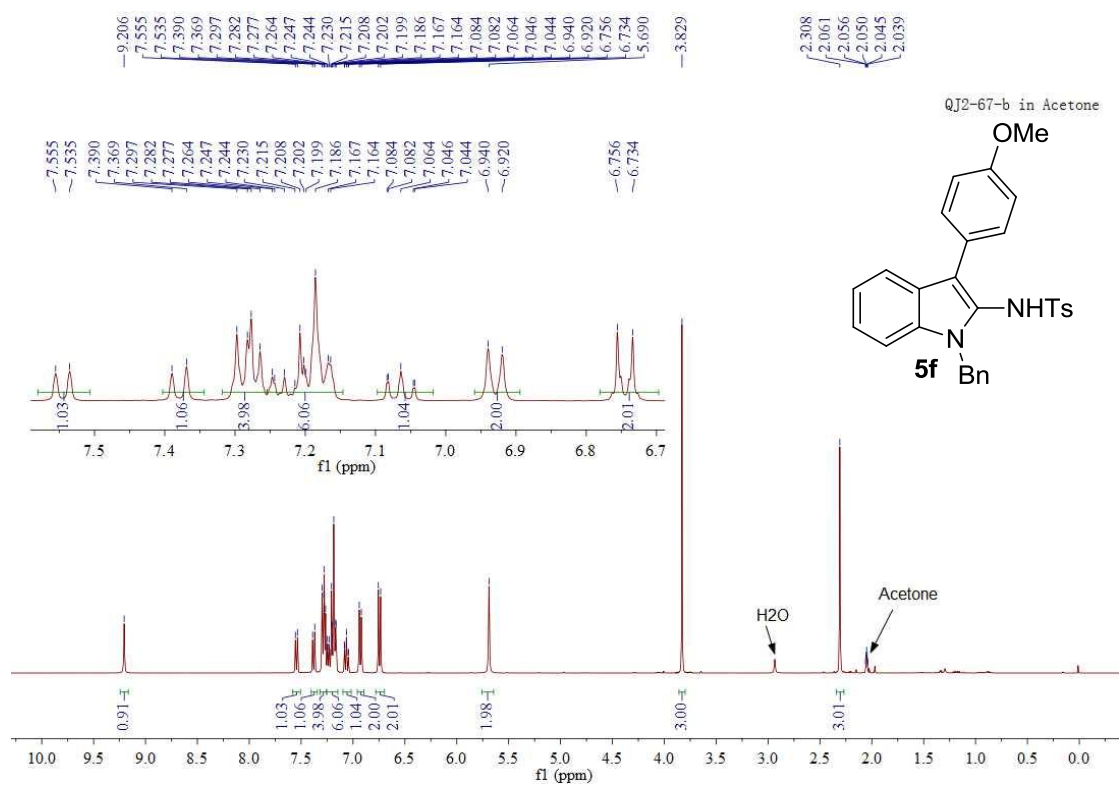


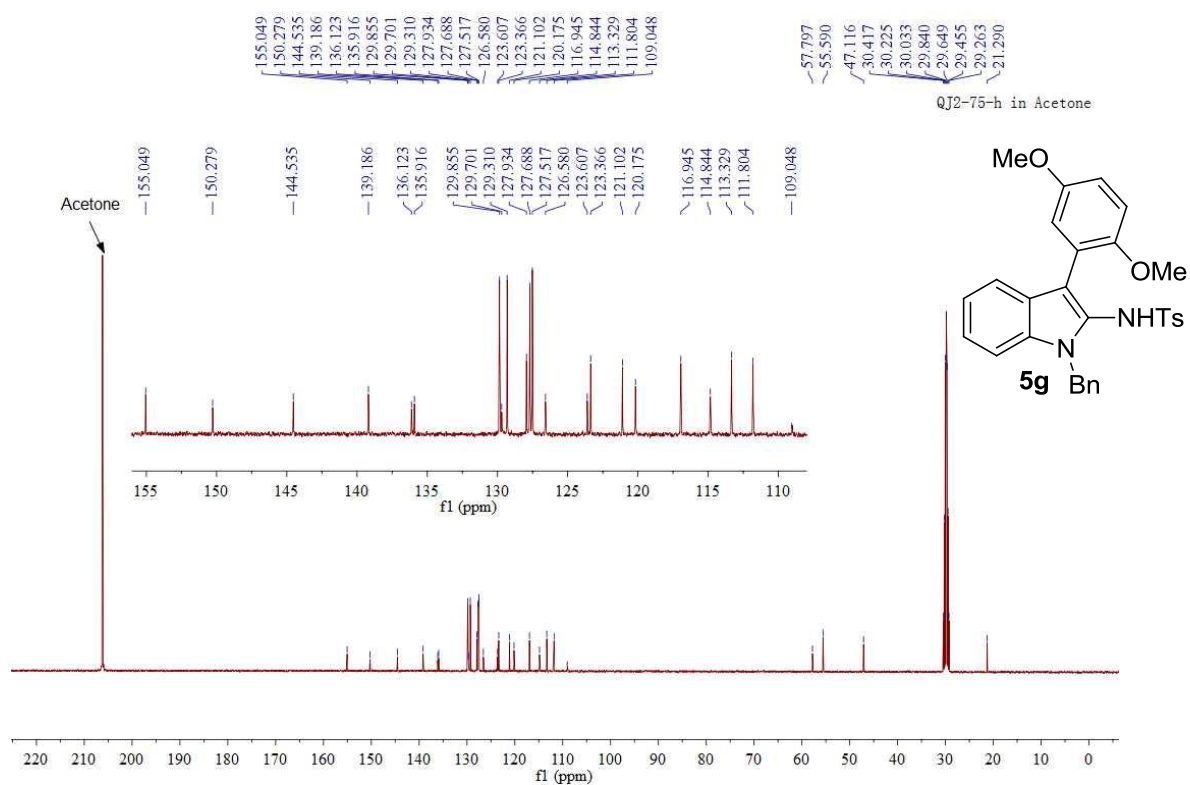
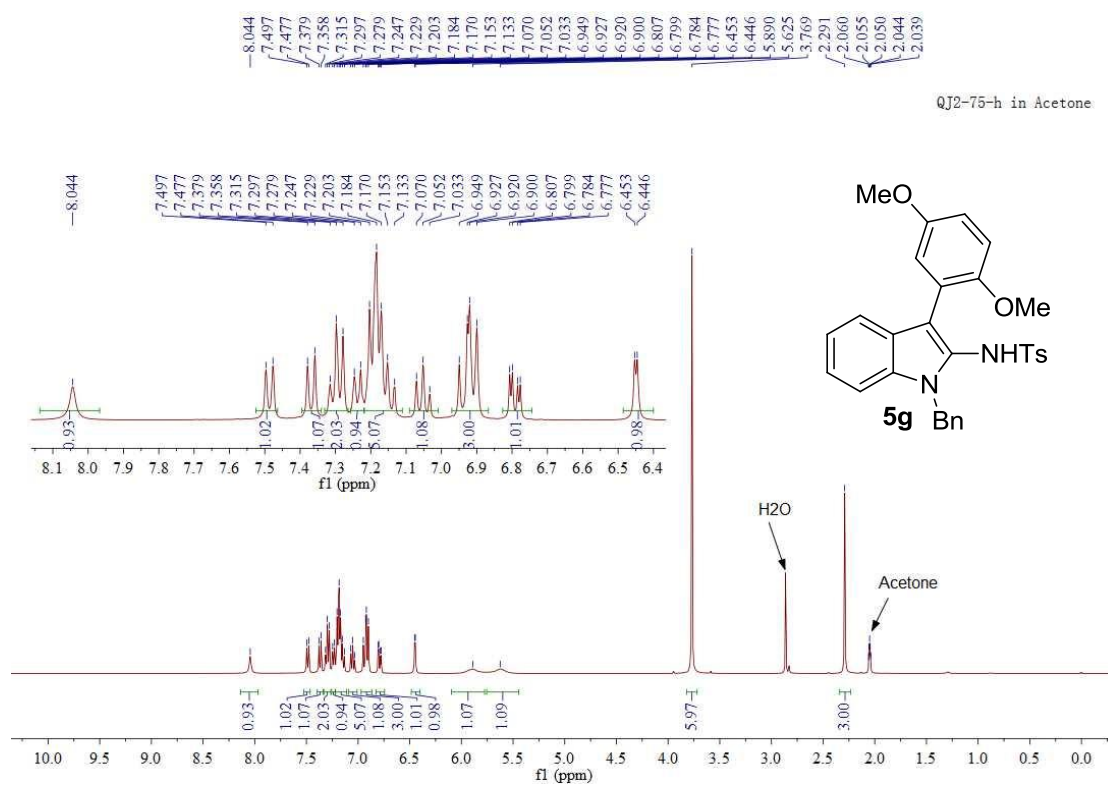


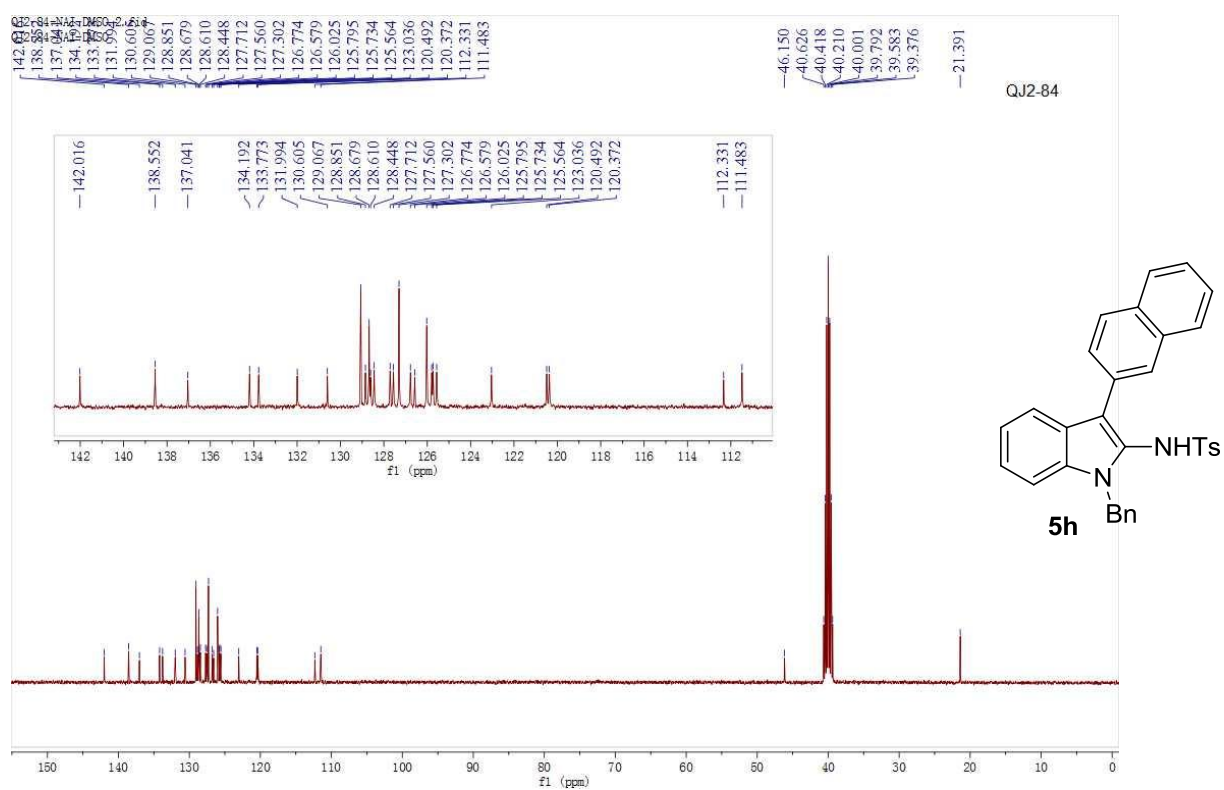
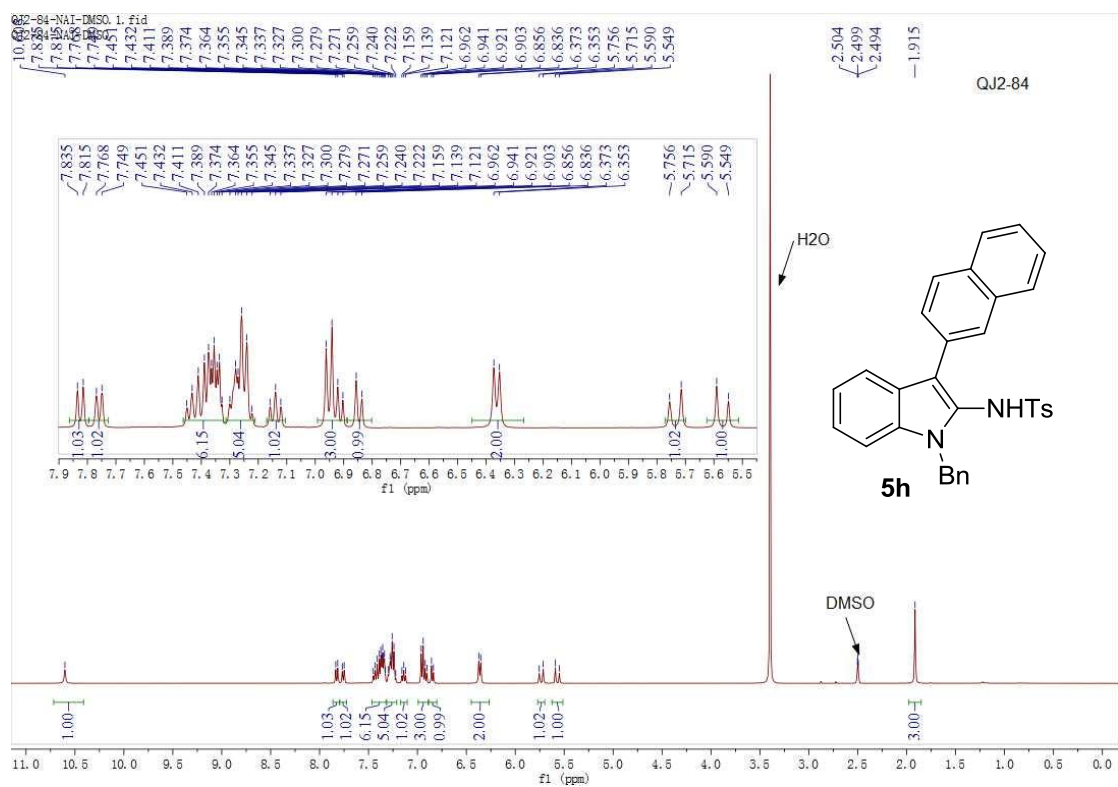








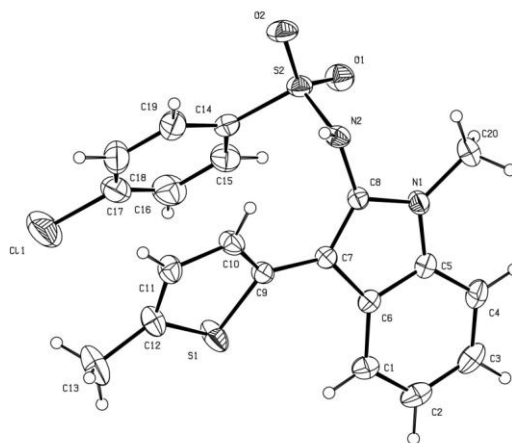




2. Crystal structure of **3o** (CCDC 1564115)

Single crystal of **3o** was obtained by slow vaporization of the mixed solvents of ethyl acetate and n-hexane, and the structure was determined by X-ray single crystal diffractometer.

Displacement ellipsoids are shown at the 30% probability level.



Bond precision: C-C = 0.0046 Å		Wavelength=0.71073	
Cell:	a=8.1156(7)	b=11.1455(10)	c=11.5815(9)
	alpha=90.642(7)	beta=105.030(7)	gamma=107.641(8)
Temperature:	293 K		
	Calculated	Reported	
Volume	959.56(15)	959.55(14)	
Space group	P -1	P -1	
Hall group	-P 1	-P 1	
Moiety formula	C20 H17 Cl N2 O2 S2	C20 H17 Cl N2 O2 S2	
Sum formula	C20 H17 Cl N2 O2 S2	C20 H17 Cl N2 O2 S2	
Mr	416.93	416.93	
Dx, g cm-3	1.443	1.443	
Z	2	2	
Mu (mm-1)	0.435	0.435	
F000	432.0	432.0	
F000'	432.94		
h,k,lmax	9,13,13	9,13,13	
Nref	3500	3489	
Tmin,Tmax	0.808,0.840	0.881,1.000	
Tmin'	0.808		
Correction method= # Reported T Limits: Tmin=0.881 Tmax=1.000			
AbsCorr = MULTI-SCAN			
Data completeness= 0.997		Theta(max)= 25.350	
R(reflections)= 0.0503(2721)		wR2(reflections)= 0.1386(3489)	
S = 1.044		Npar= 250	