

Supporting information for

**Metal-free site-selective C–N bond-forming reaction of
polyhalogenated pyridines and pyrimidines**

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832003, China*

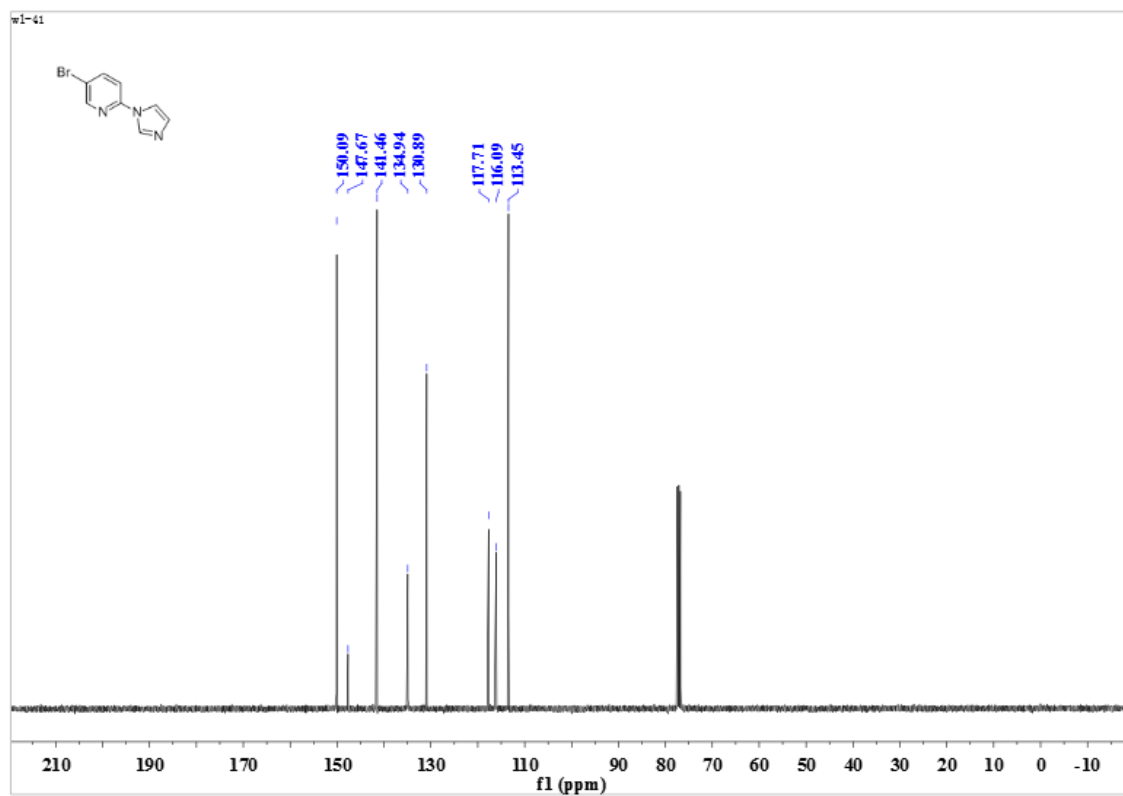
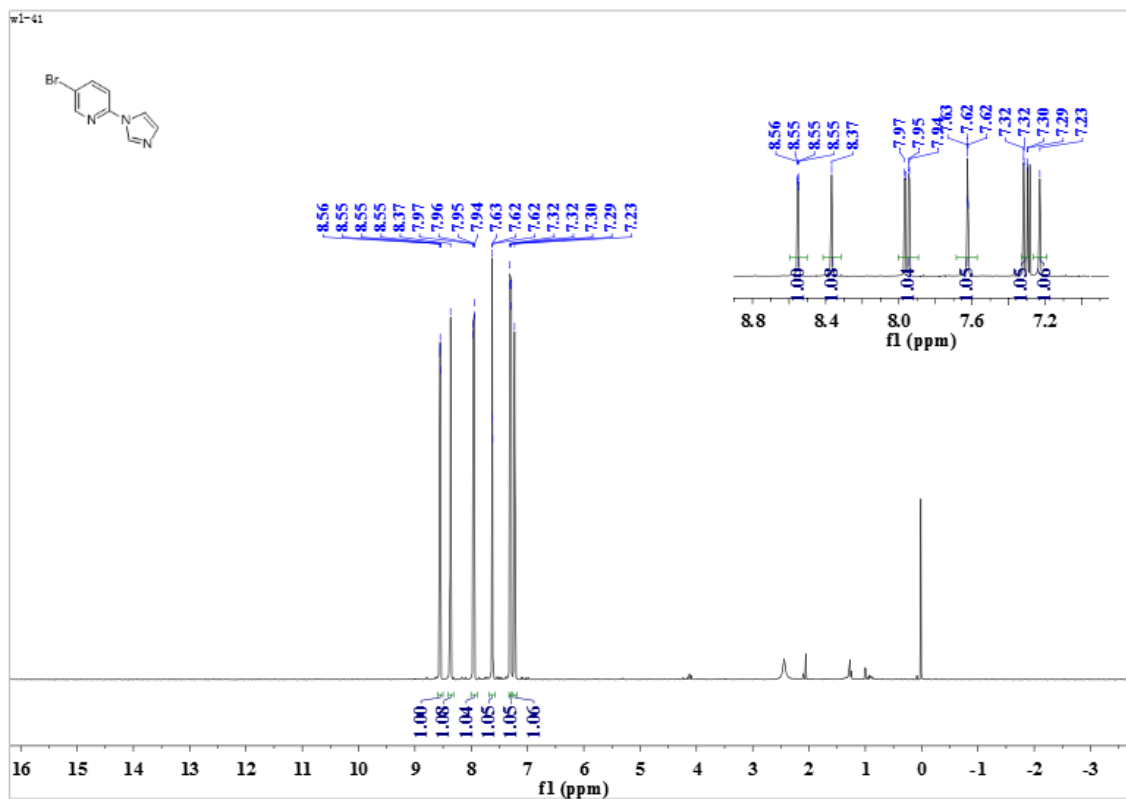
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dbinly@126.com (B. Dai)

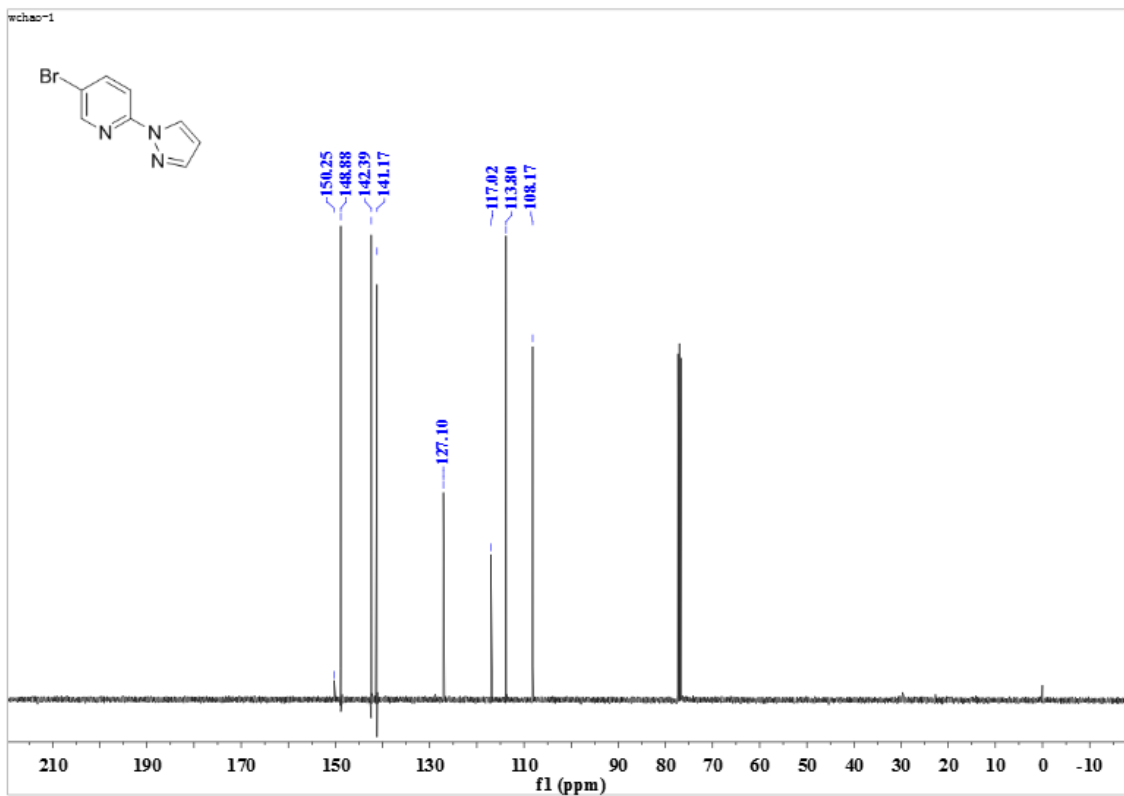
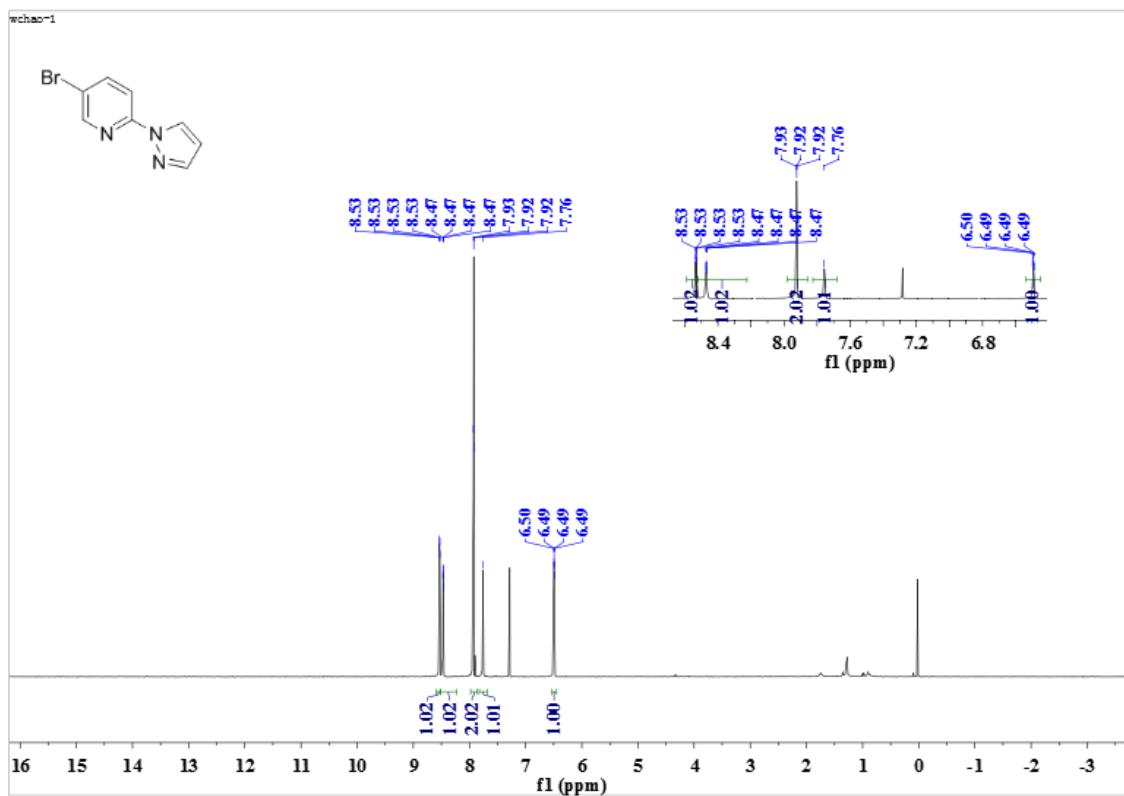
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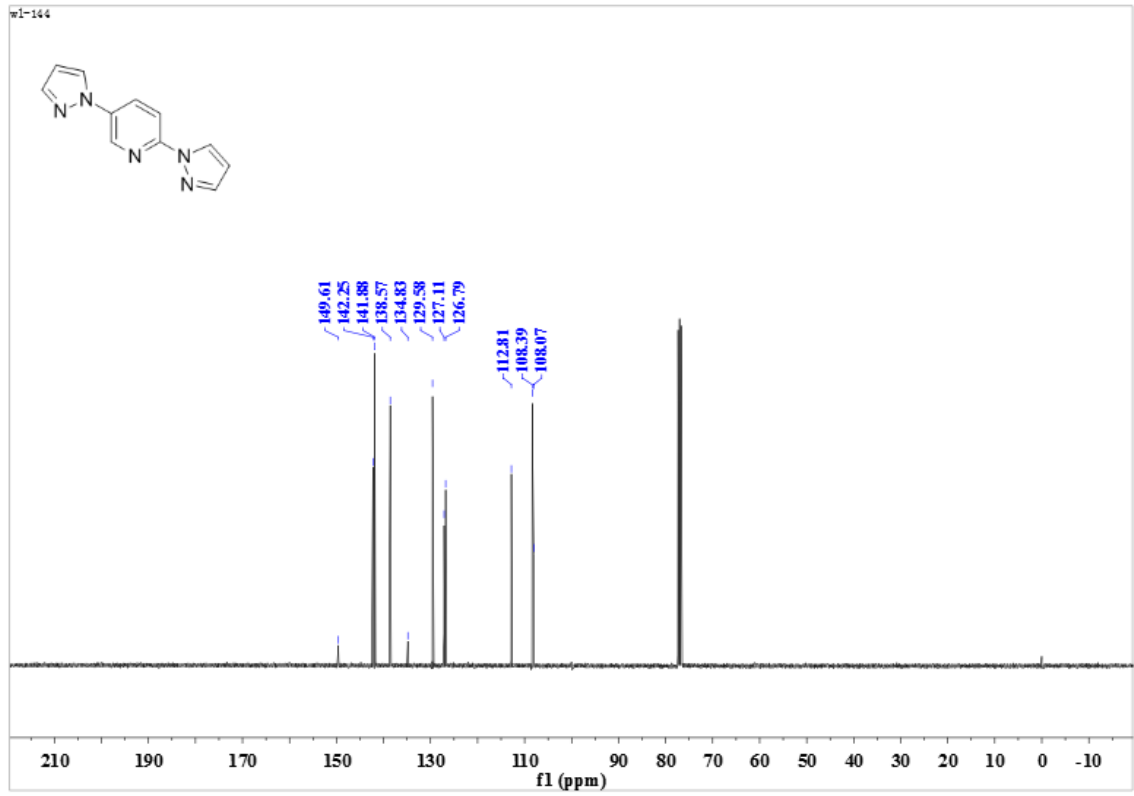
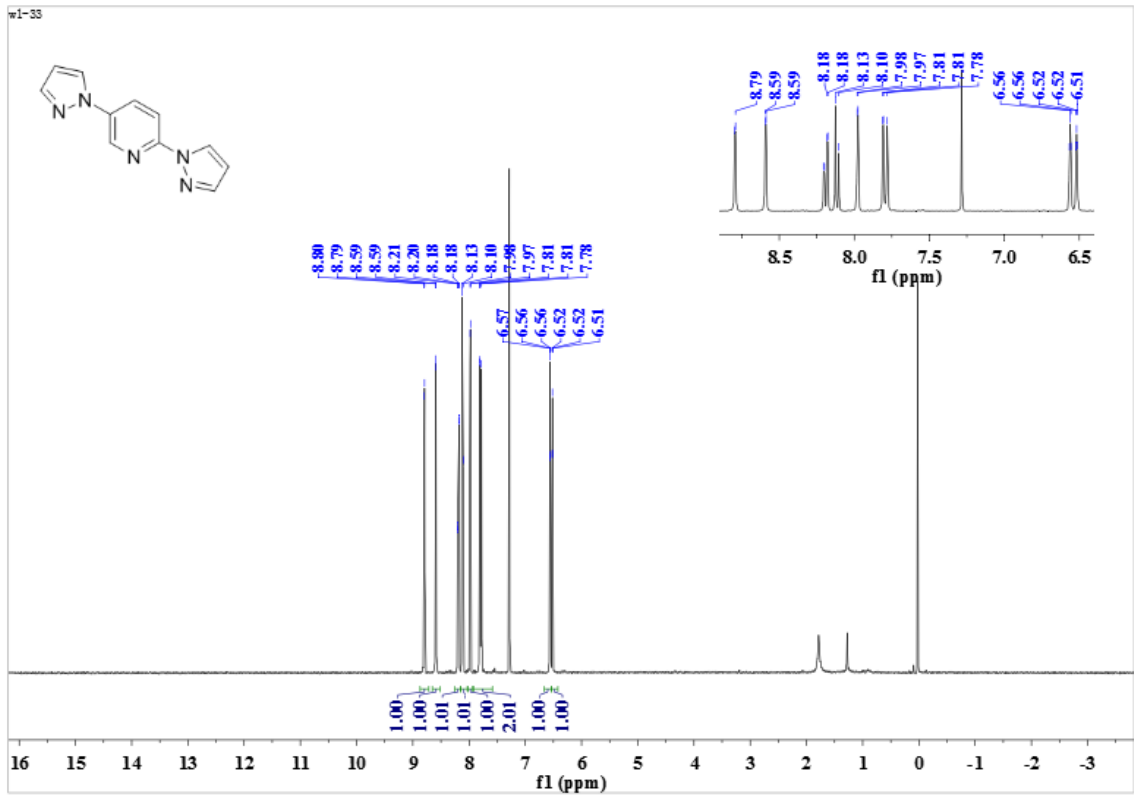
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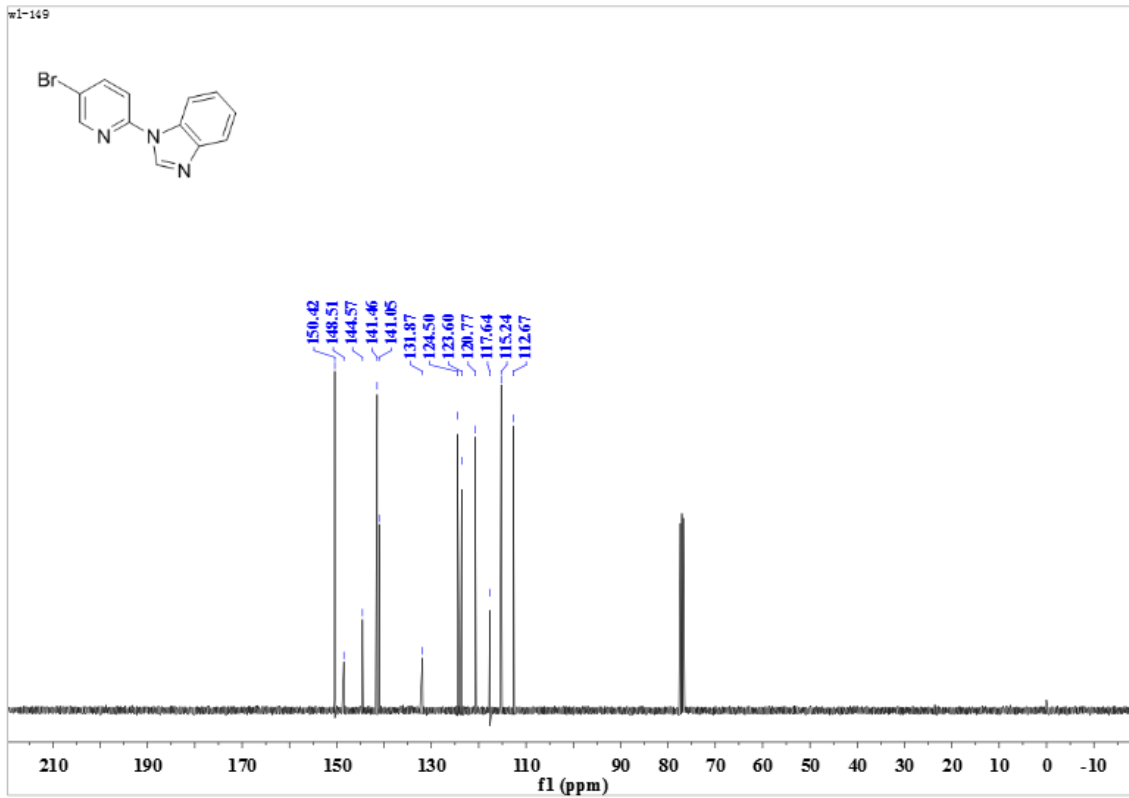
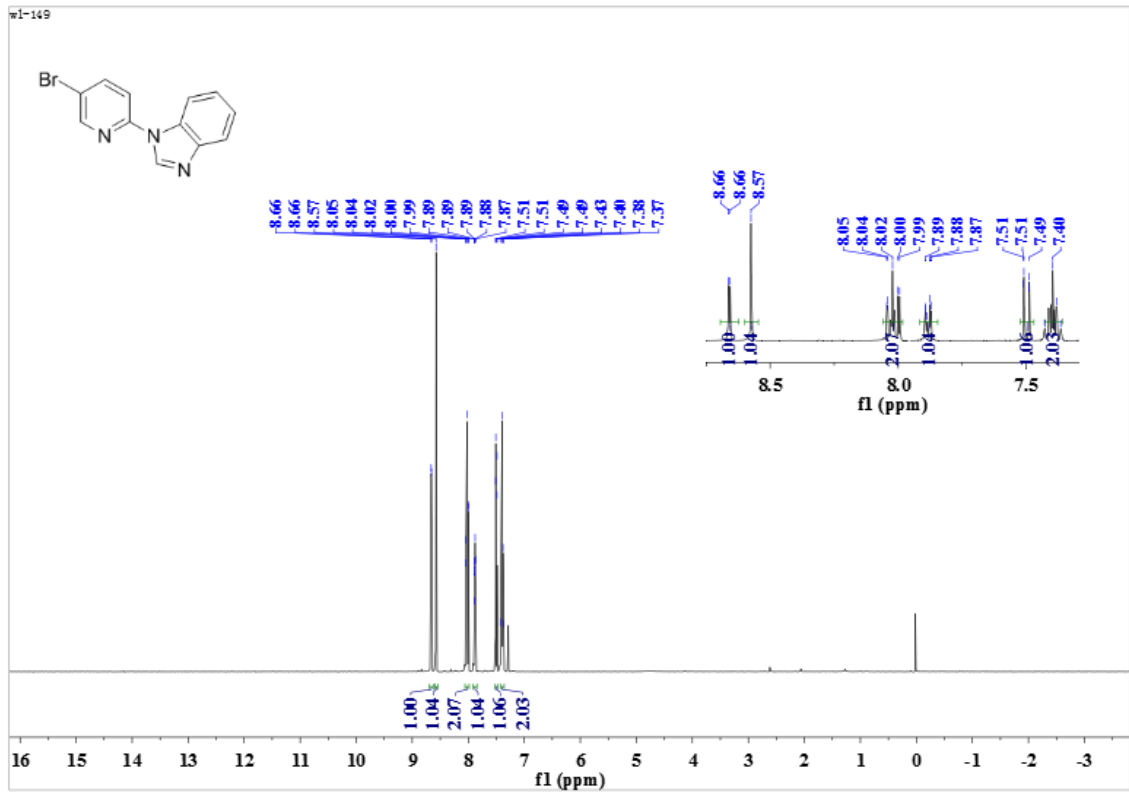
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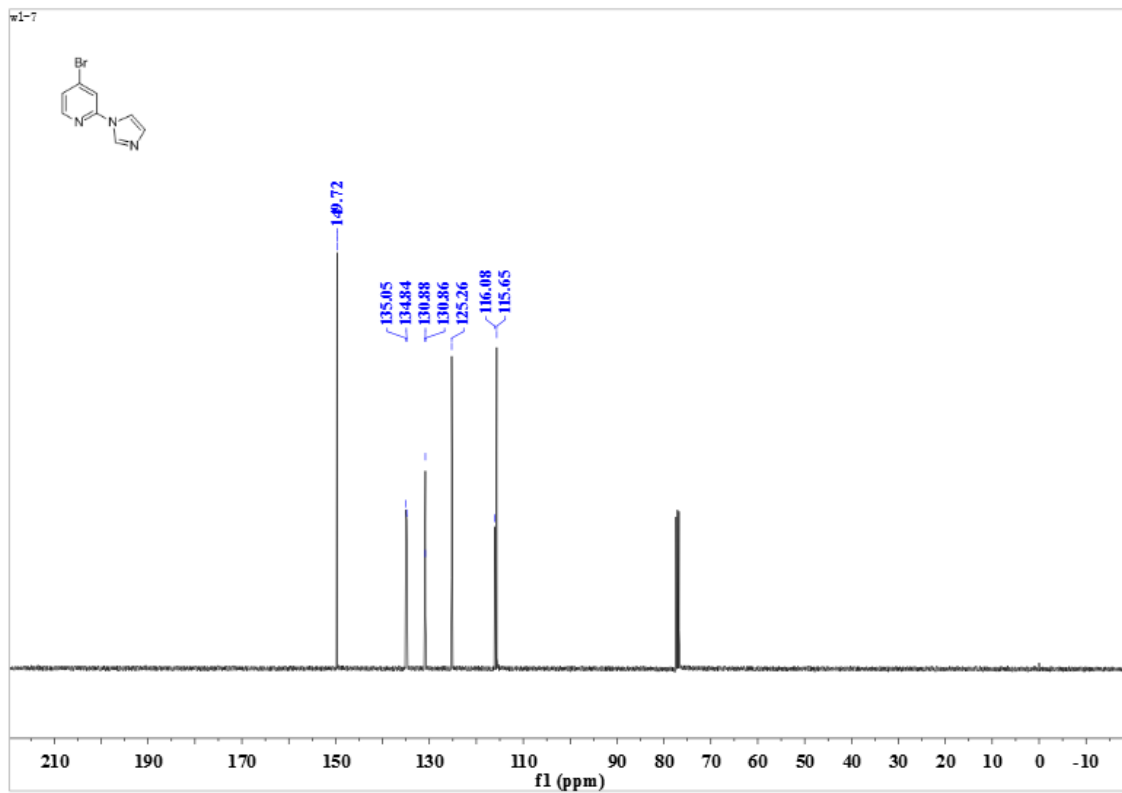
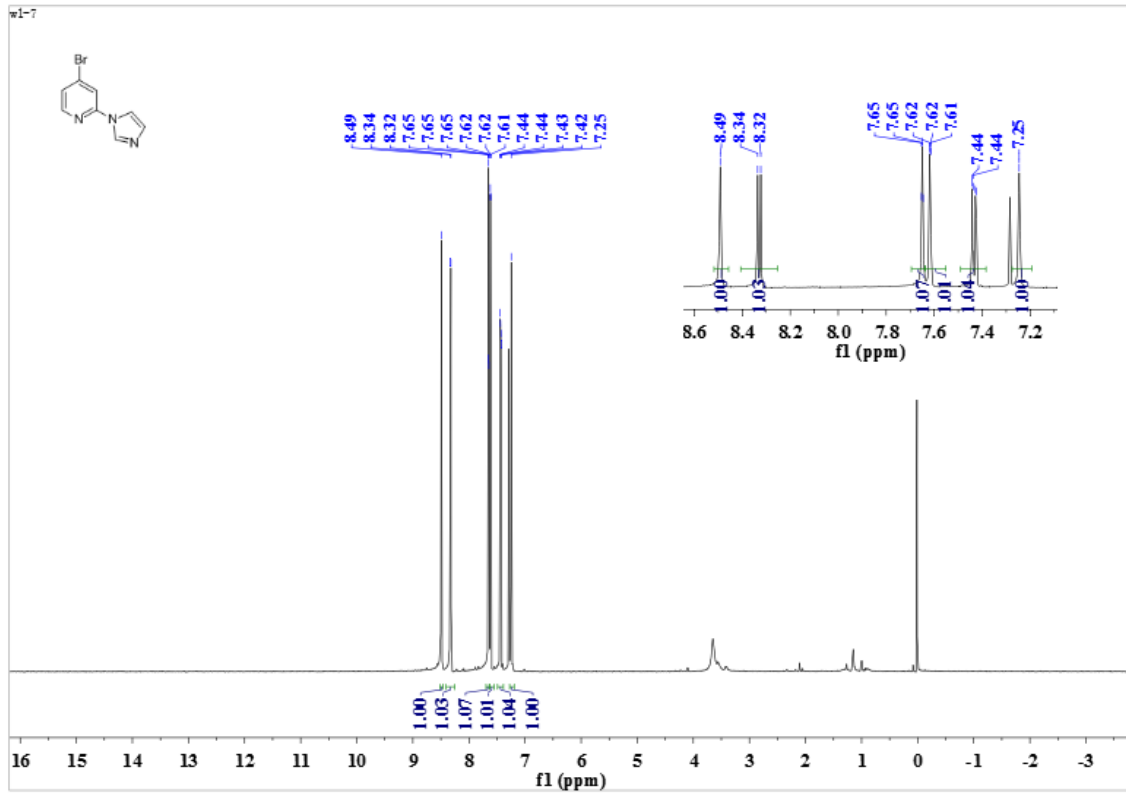
NMR Spectra for all Cross-Coupling Products

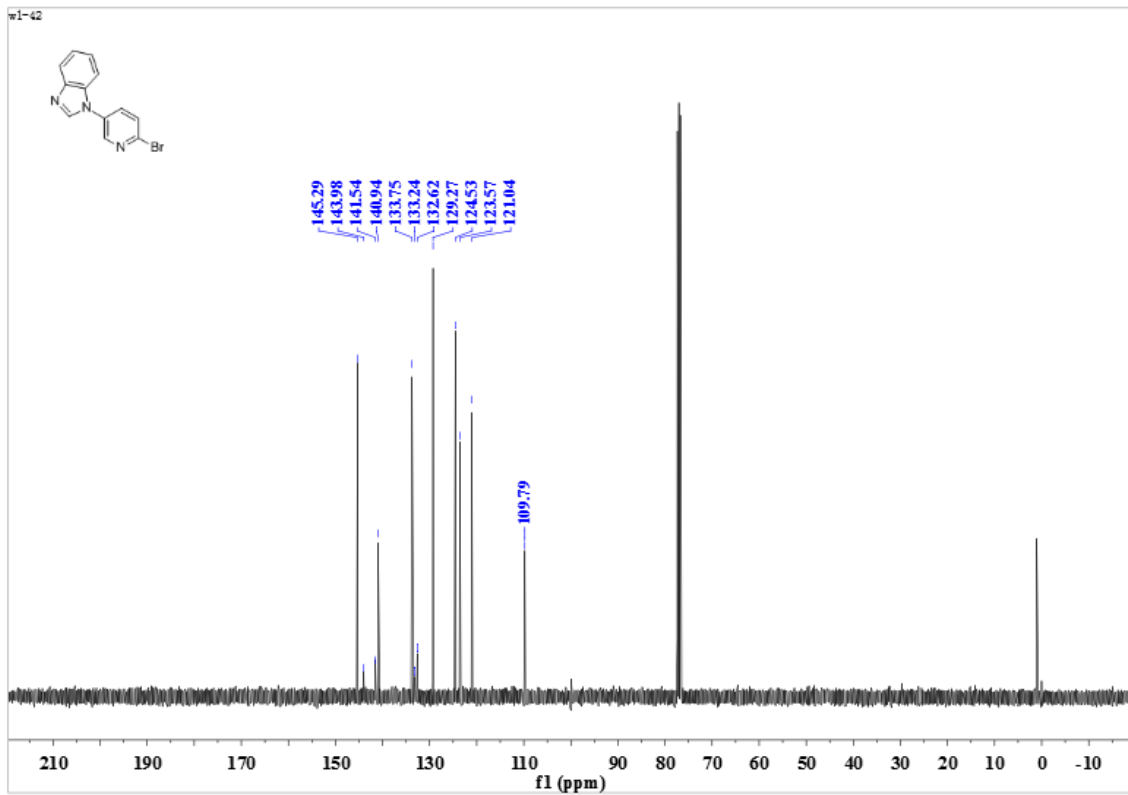
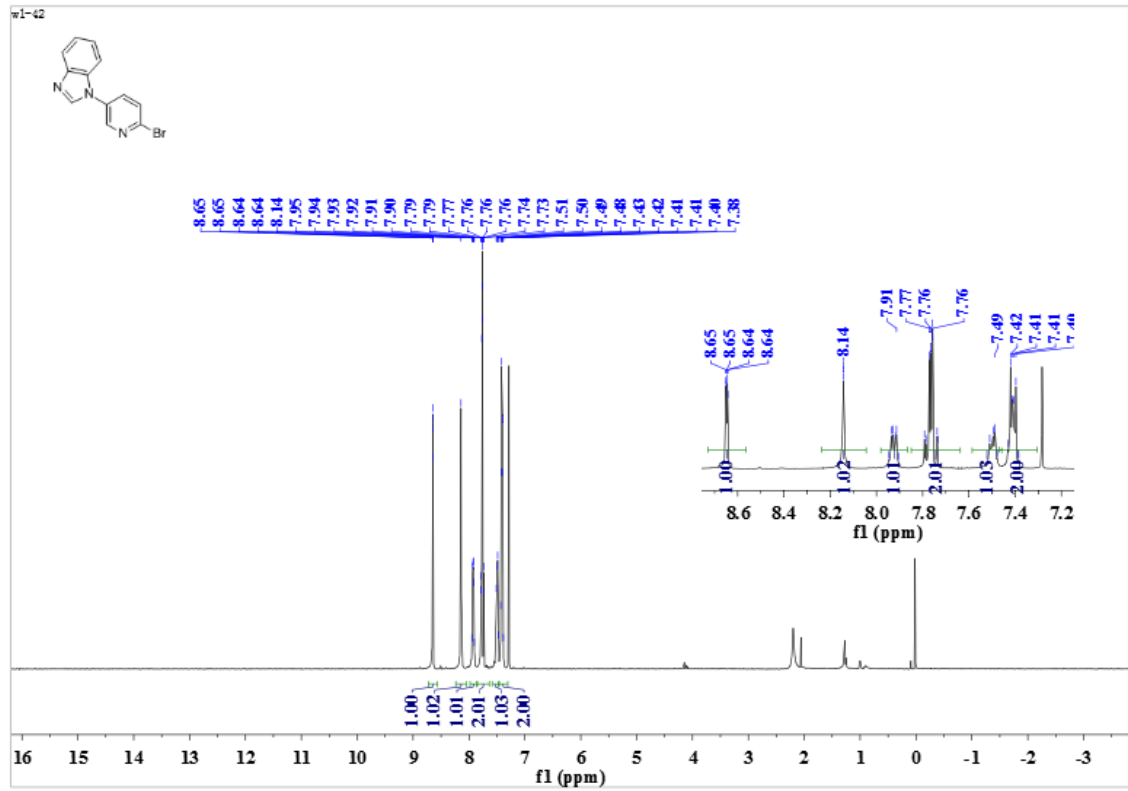


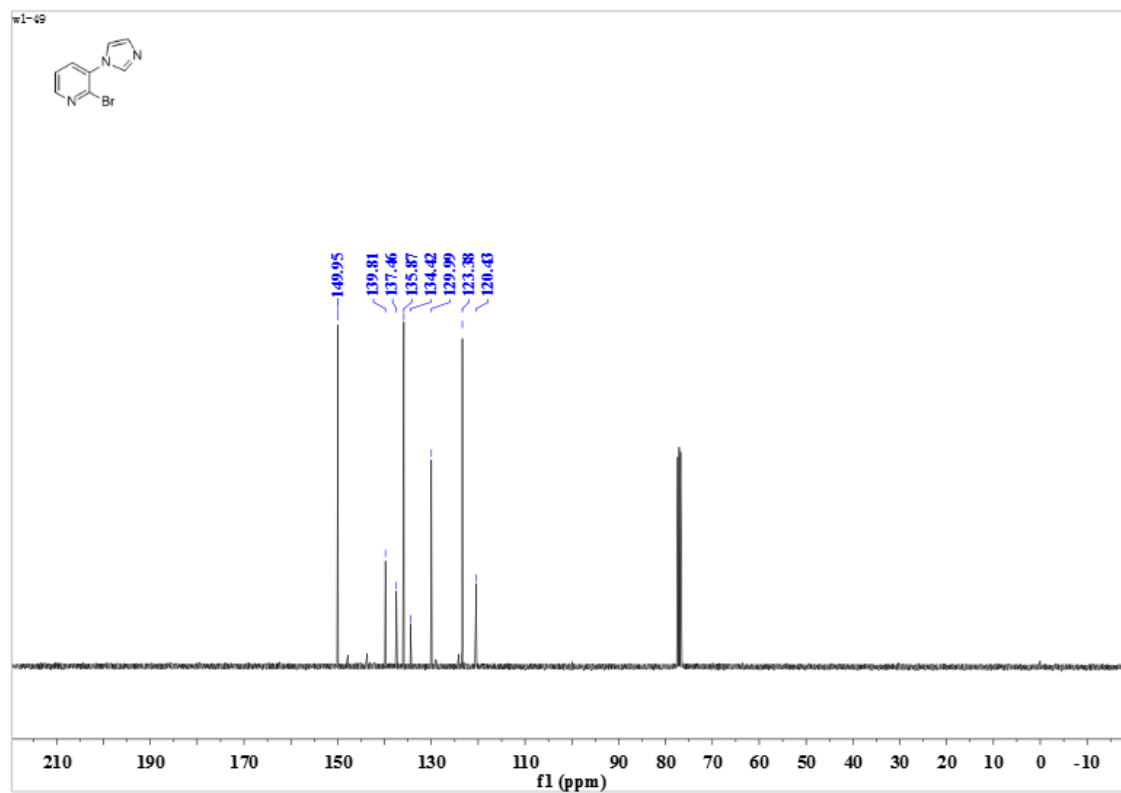
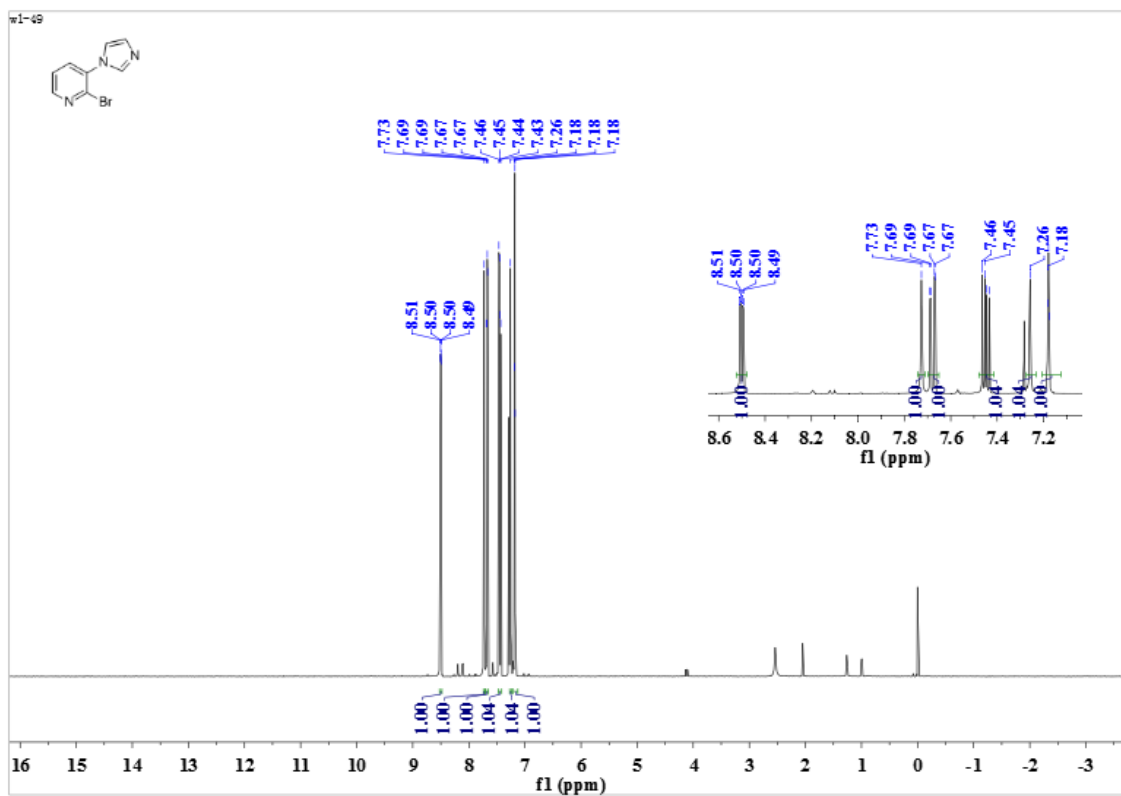


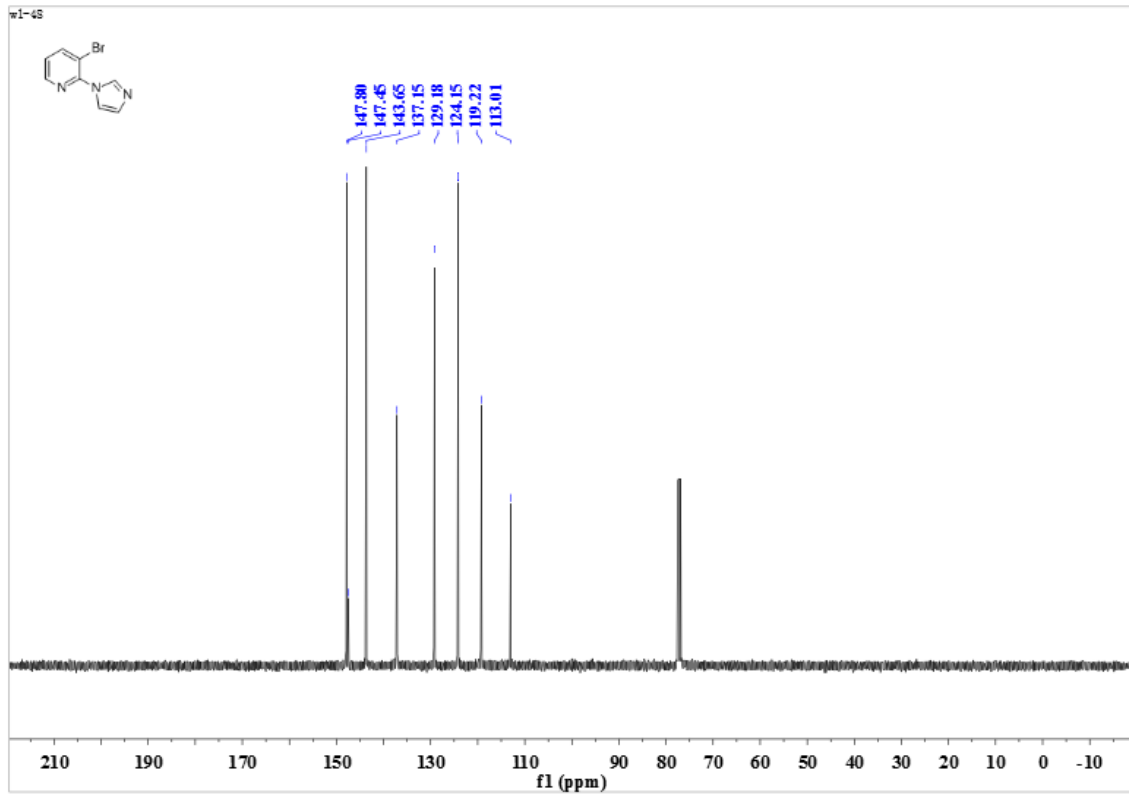
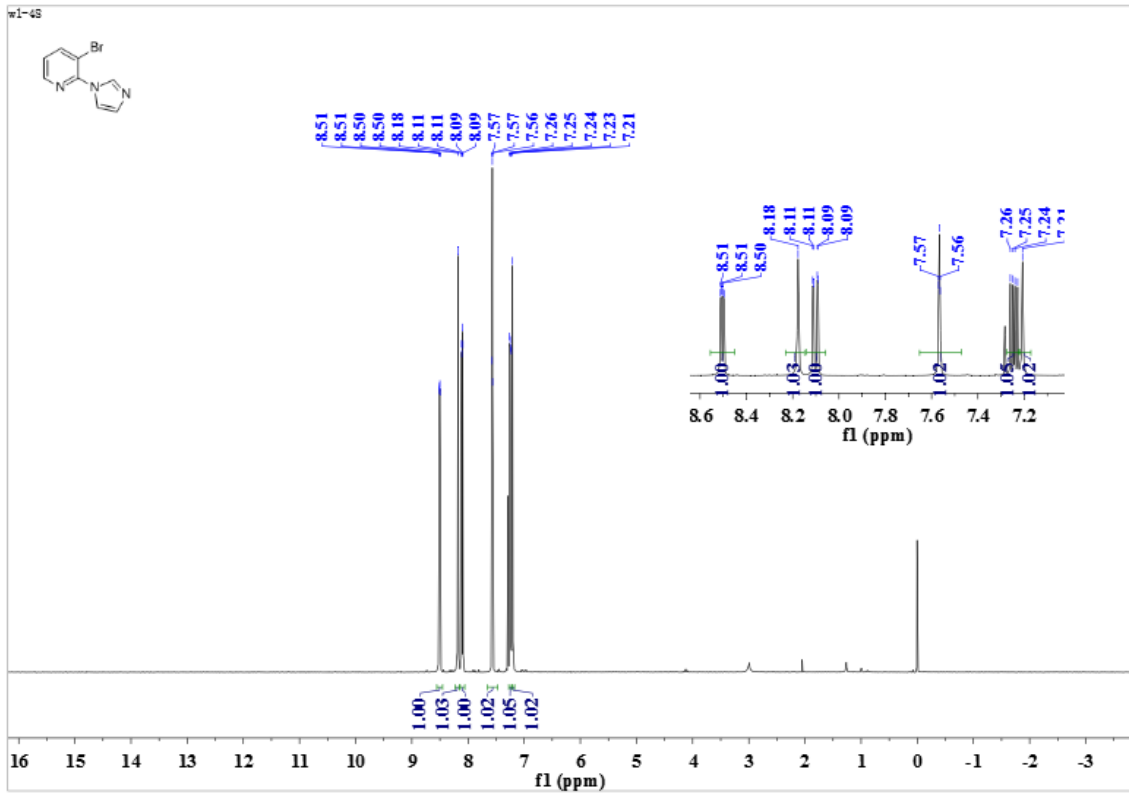


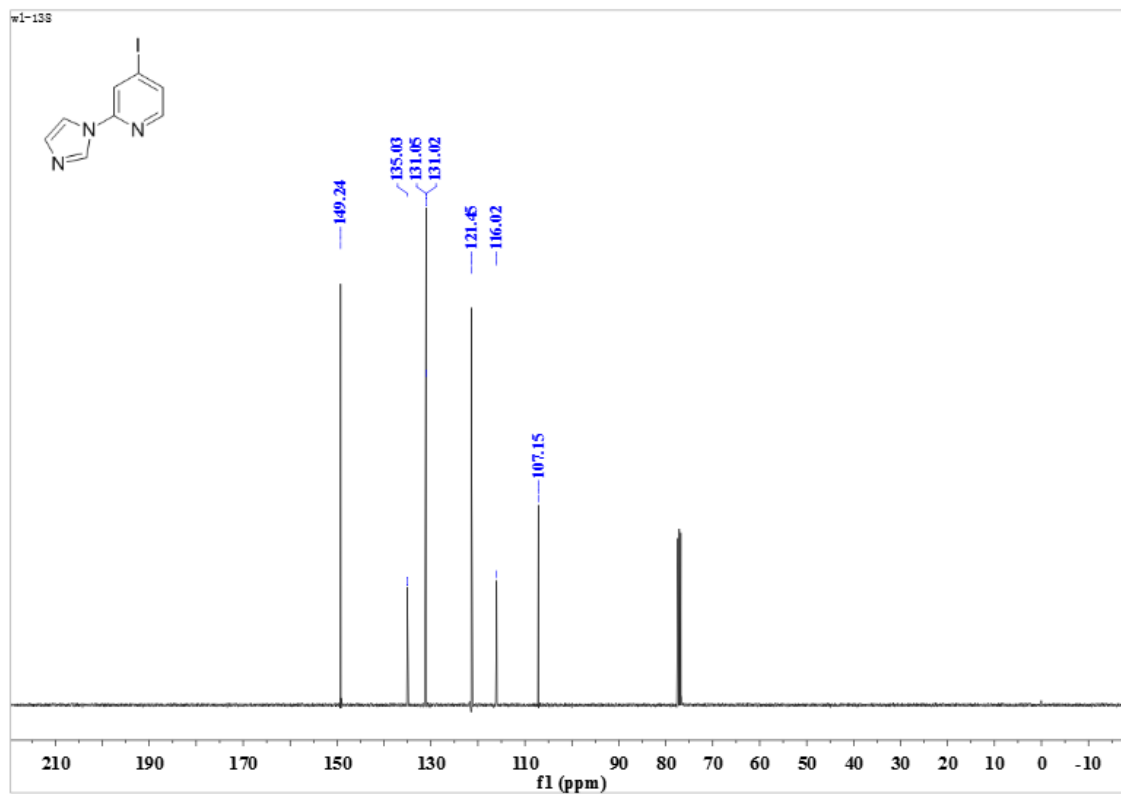
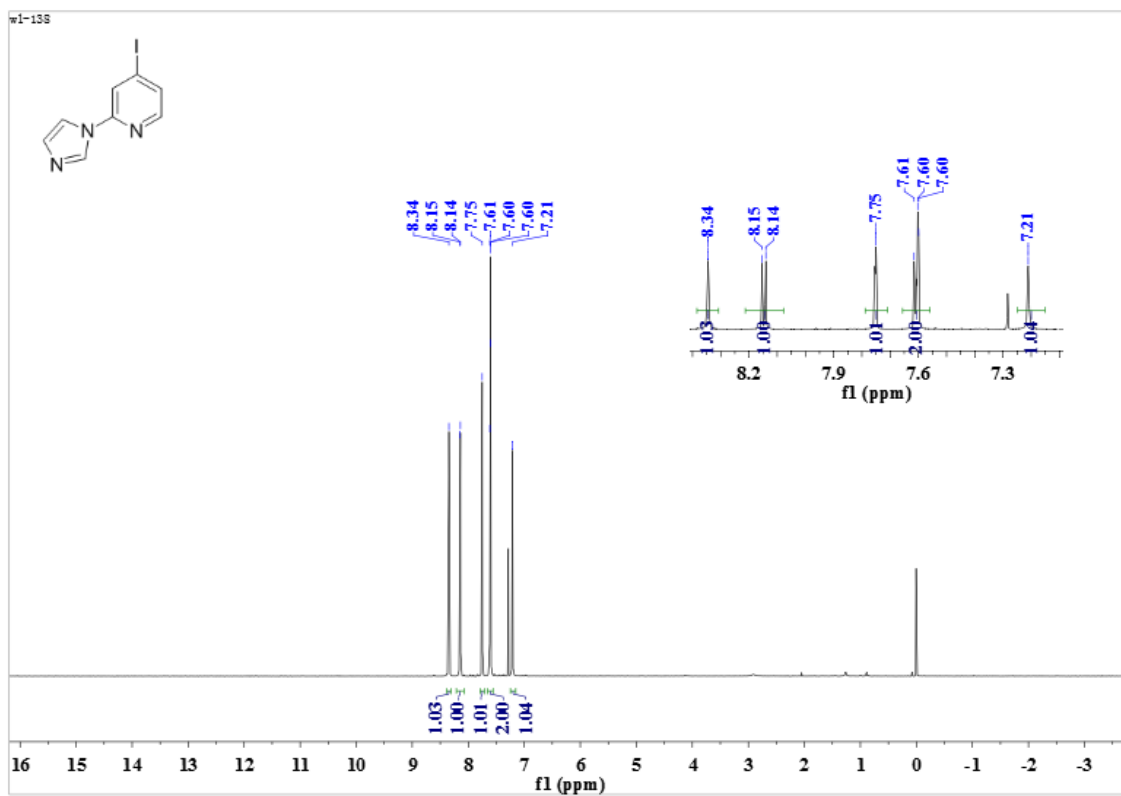


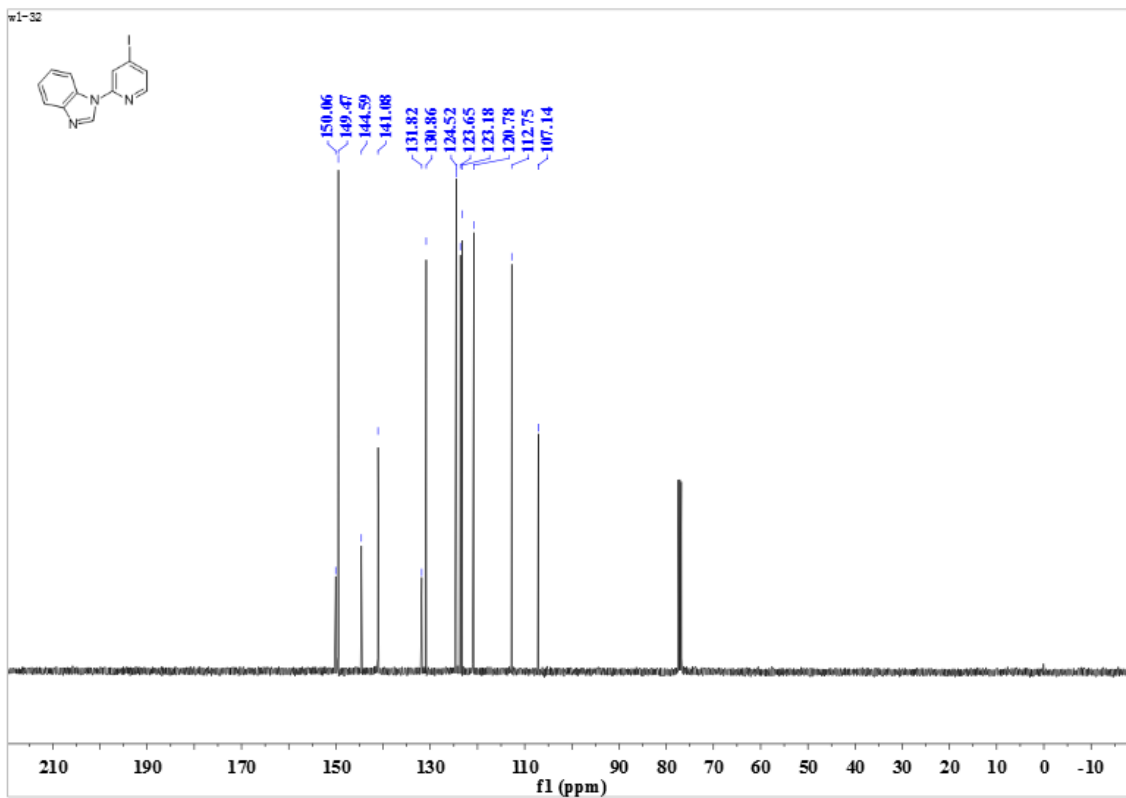
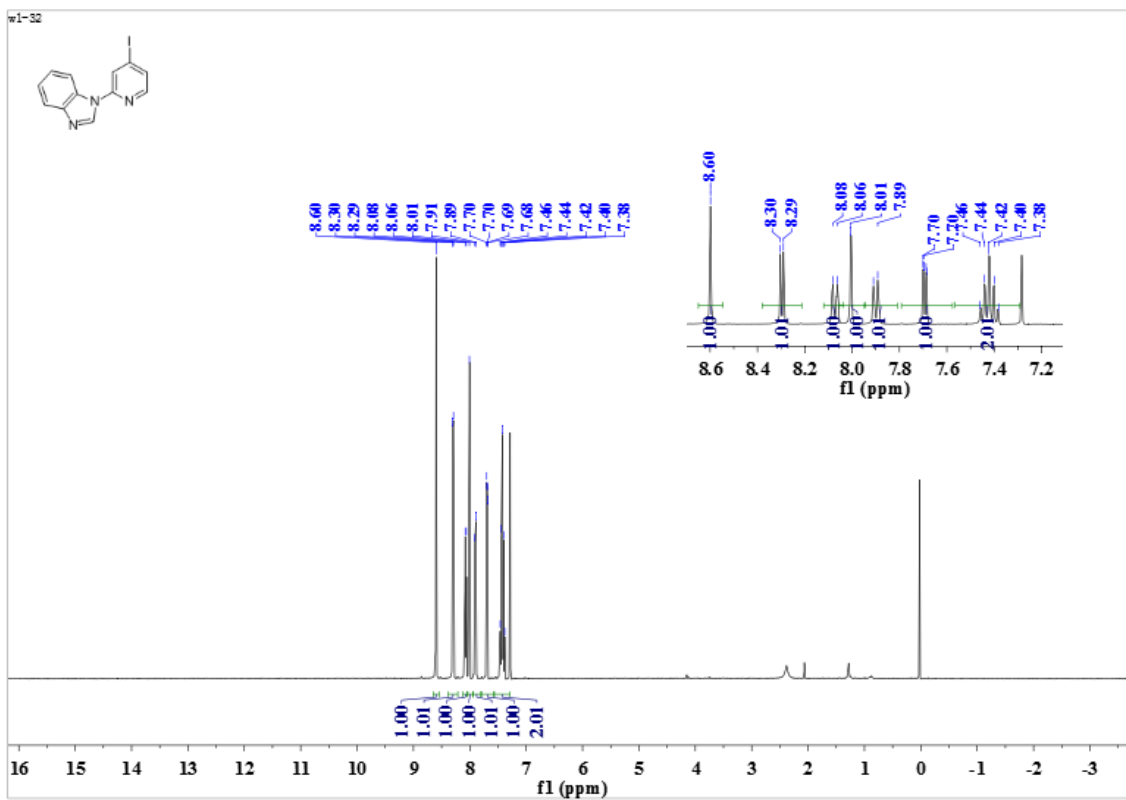


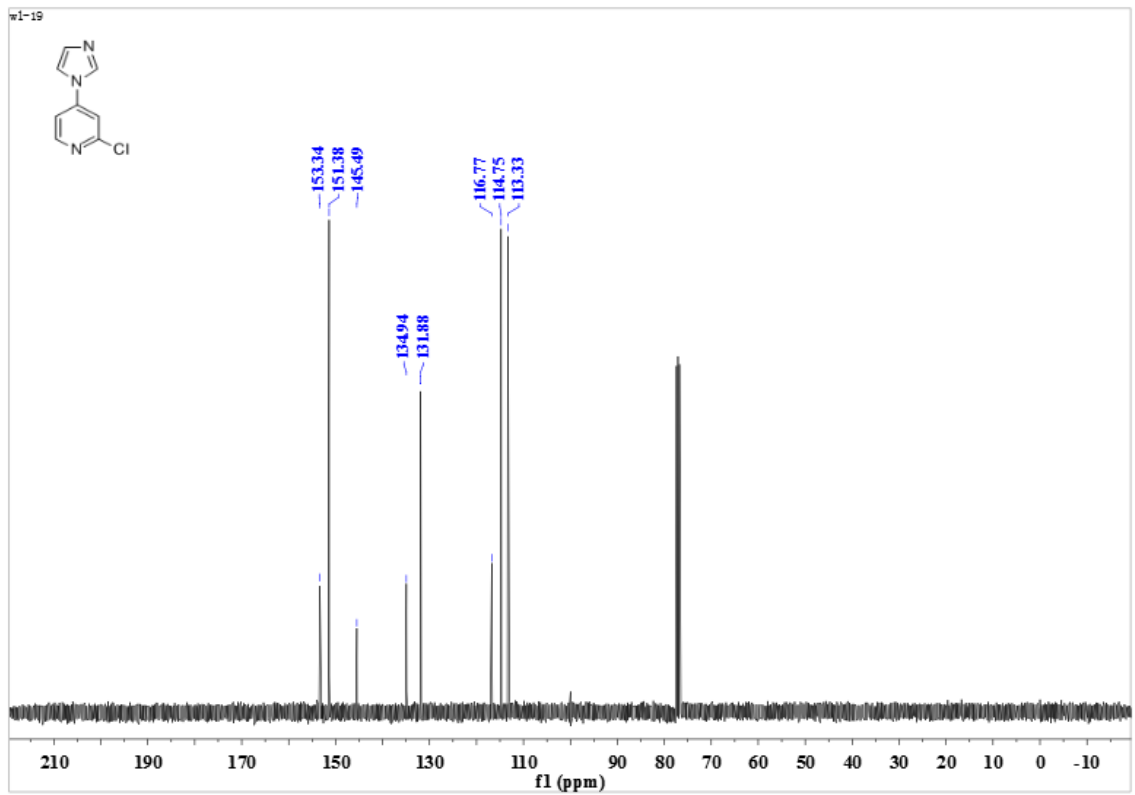
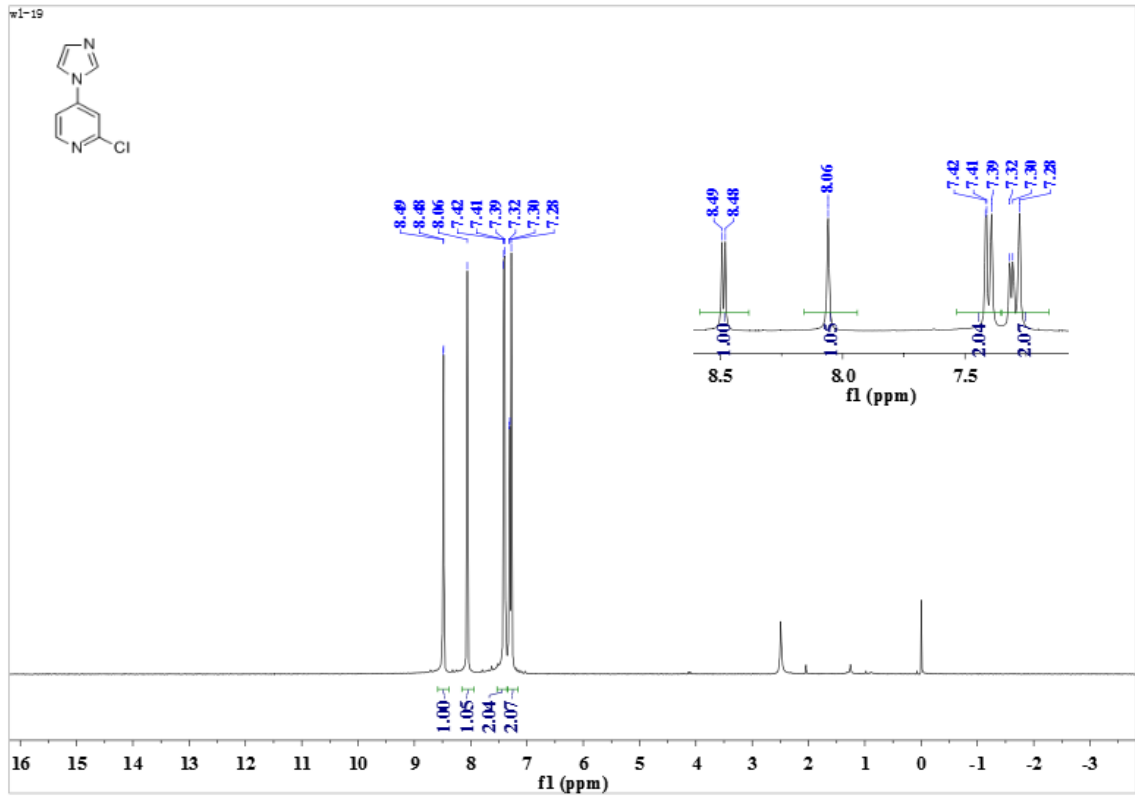


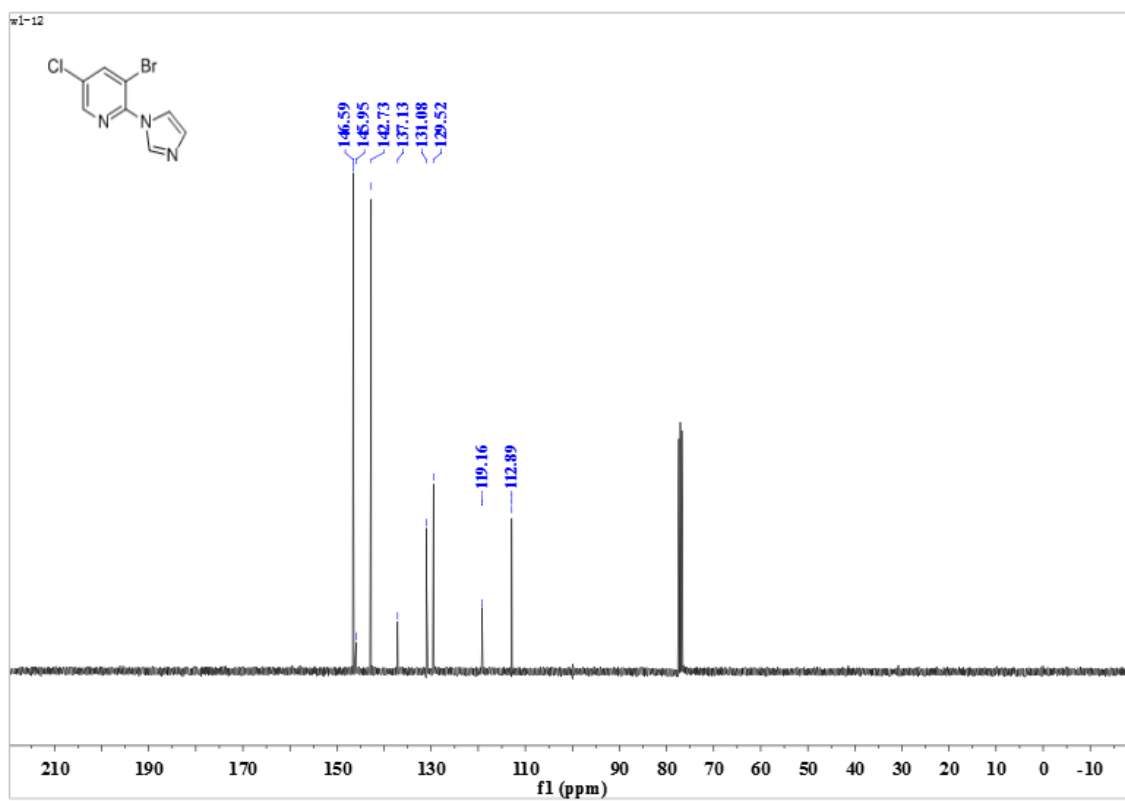
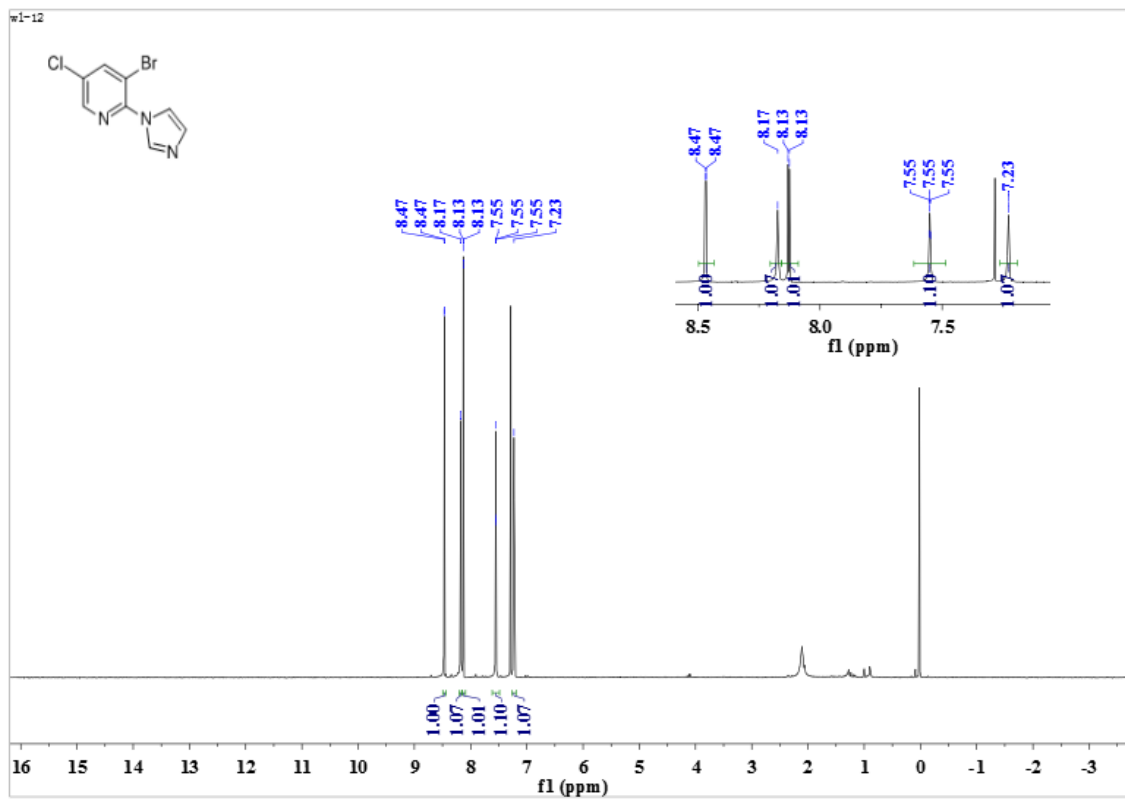


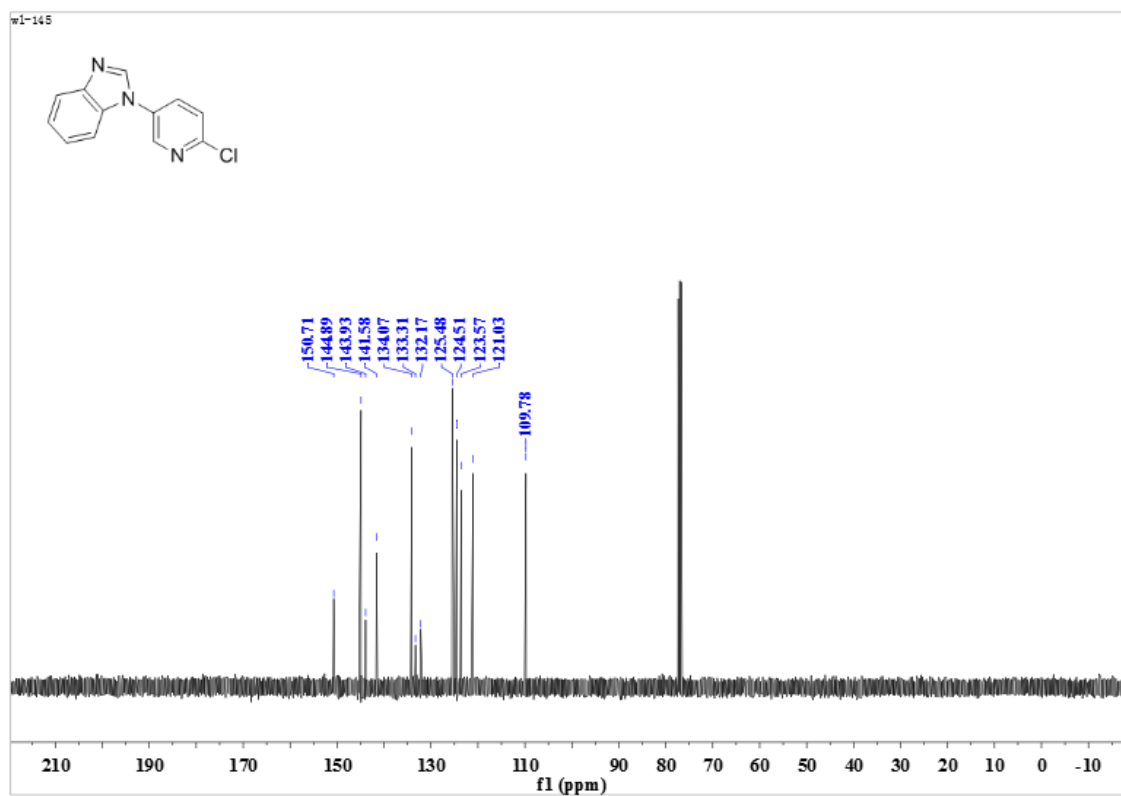
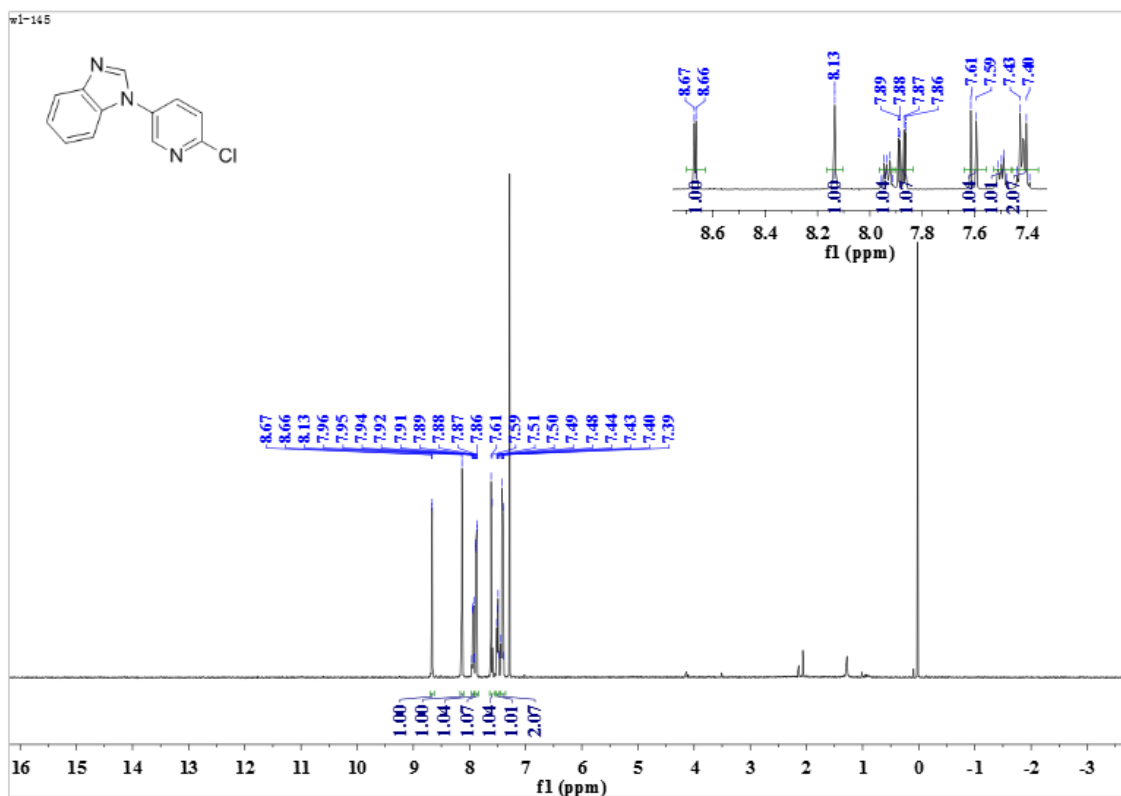


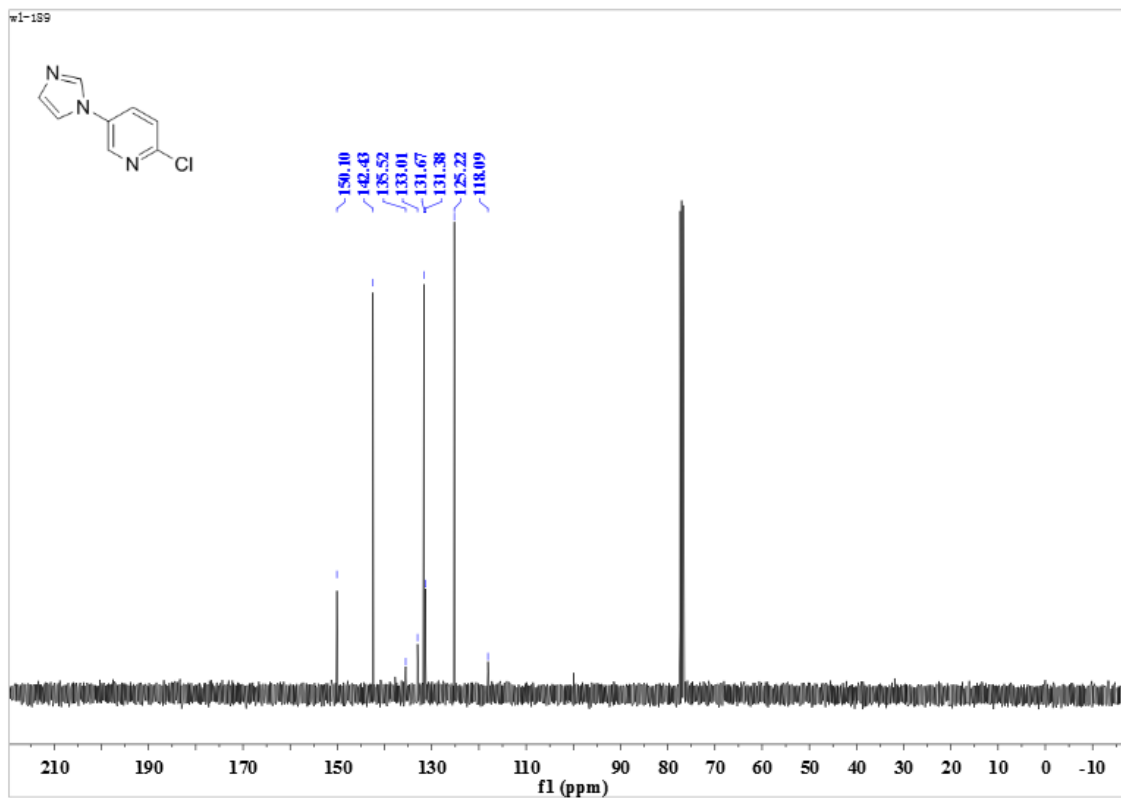
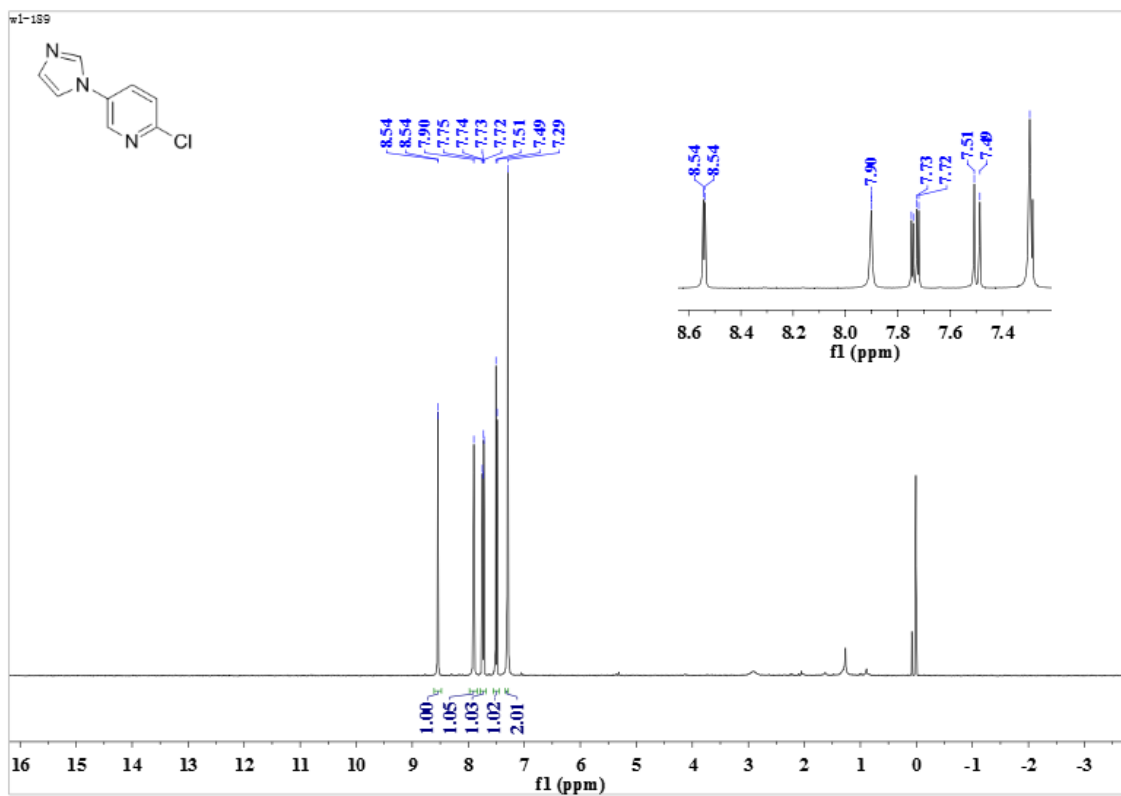


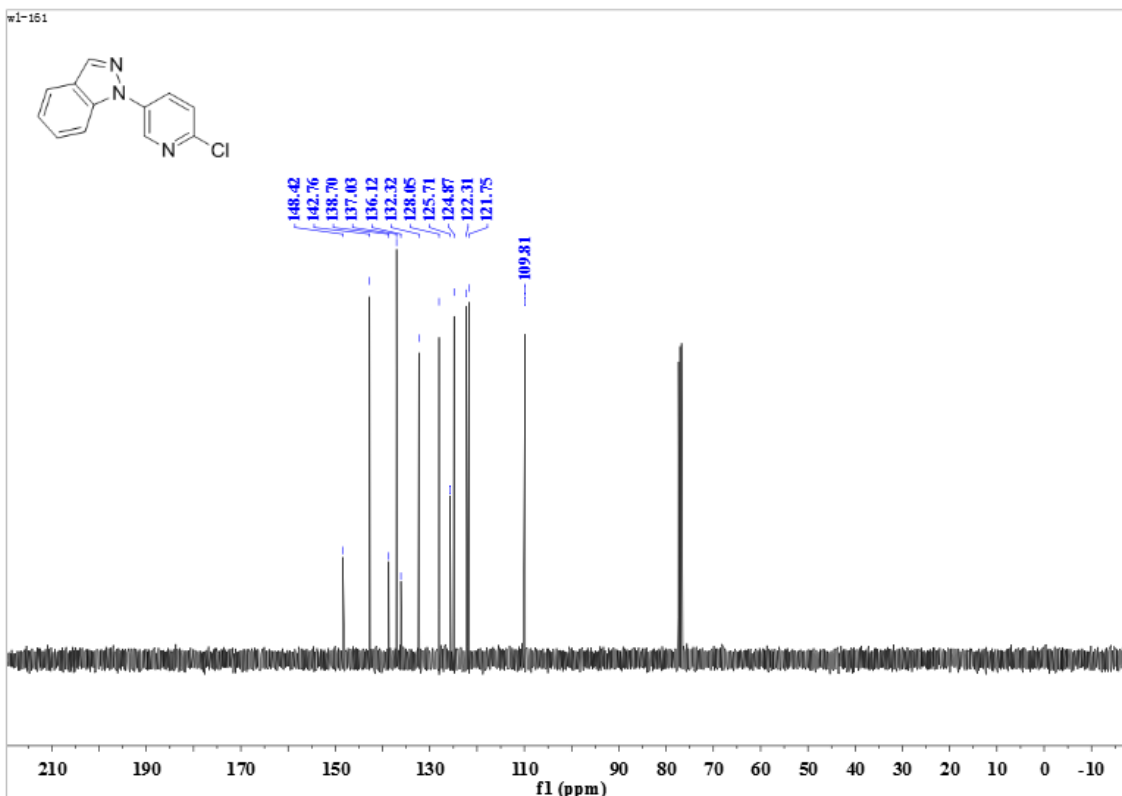
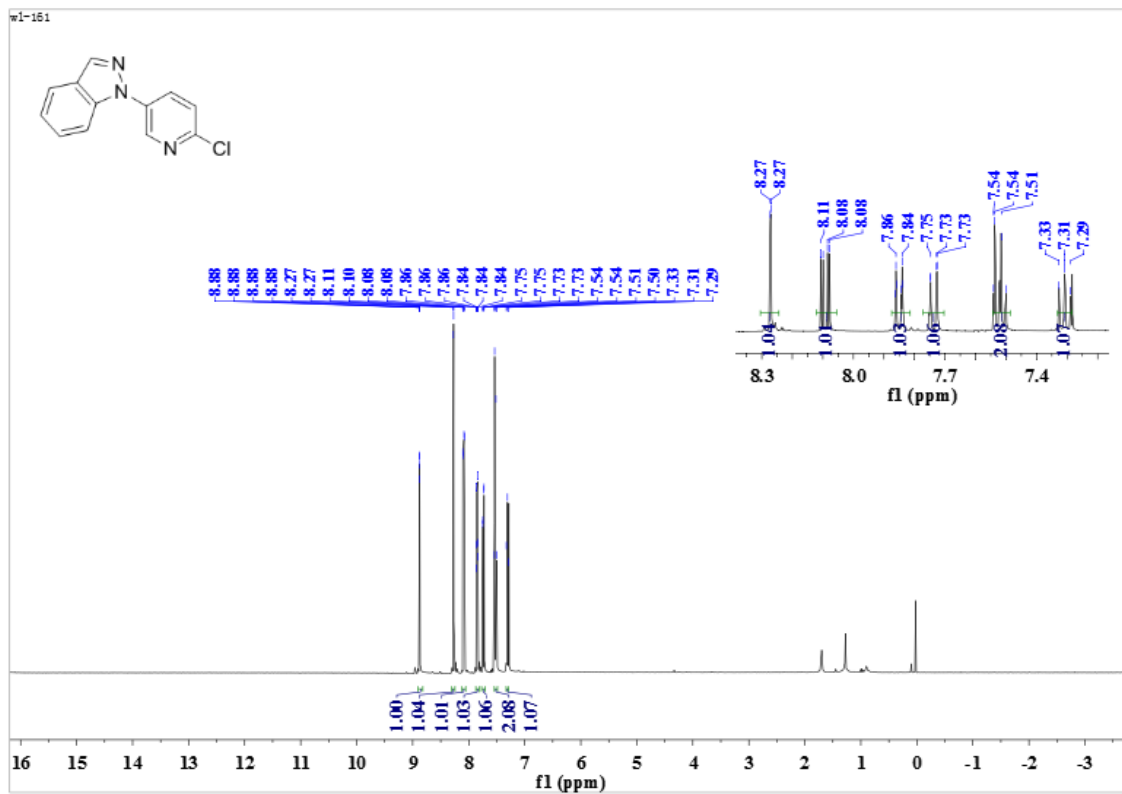


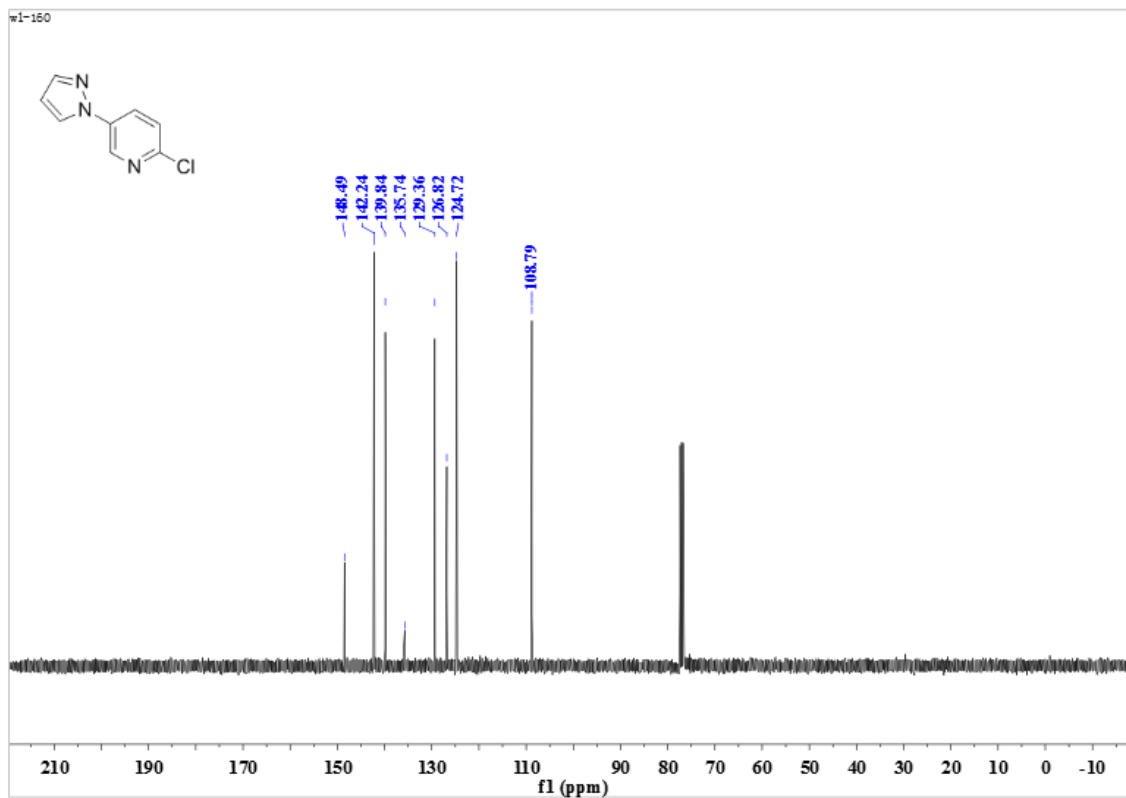
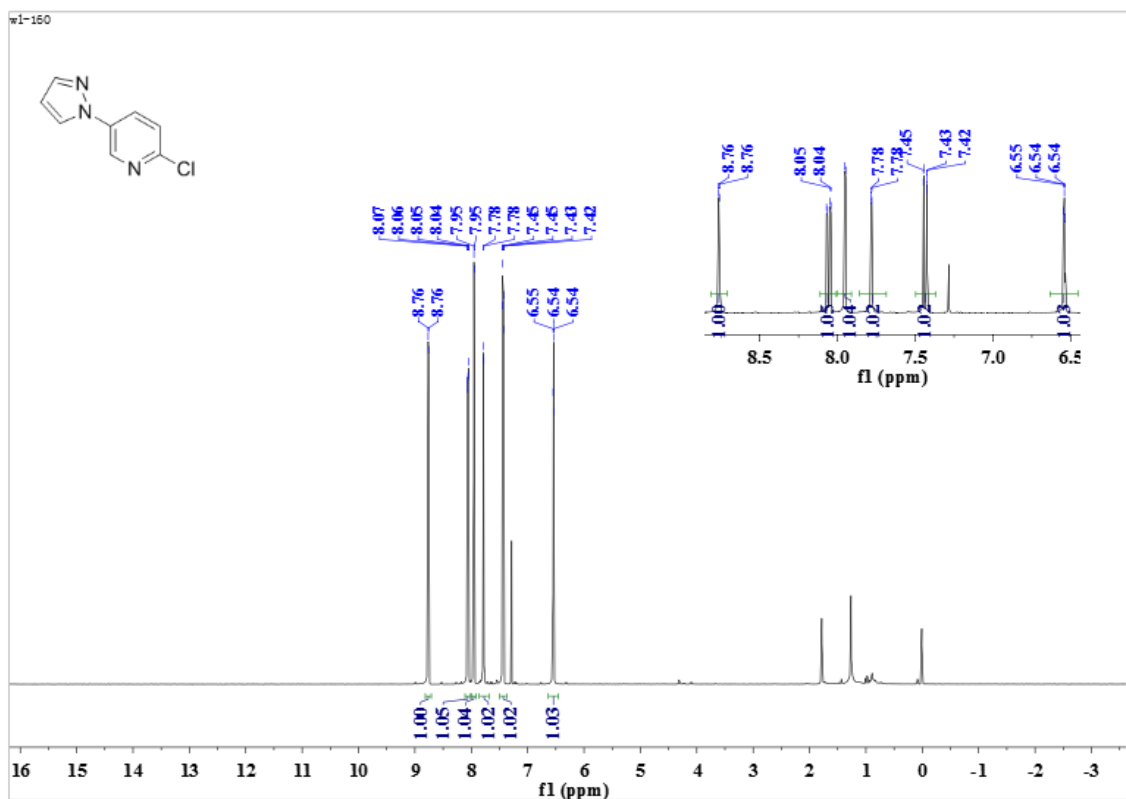


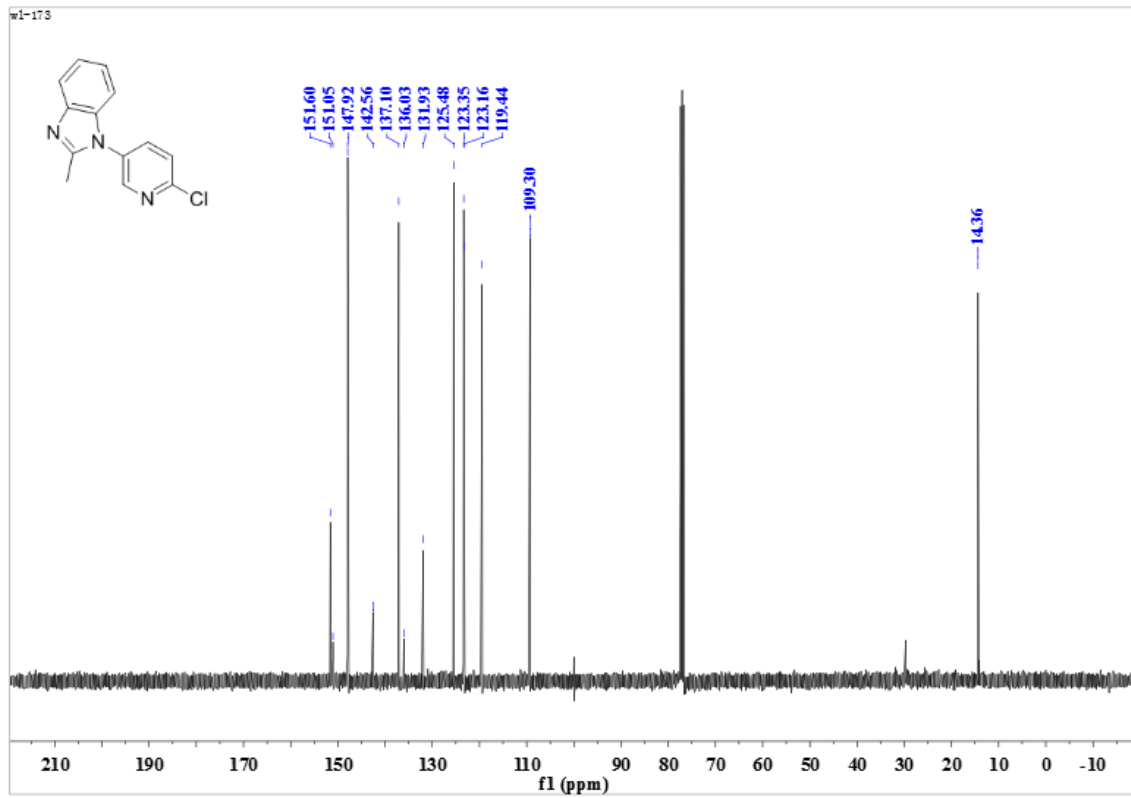
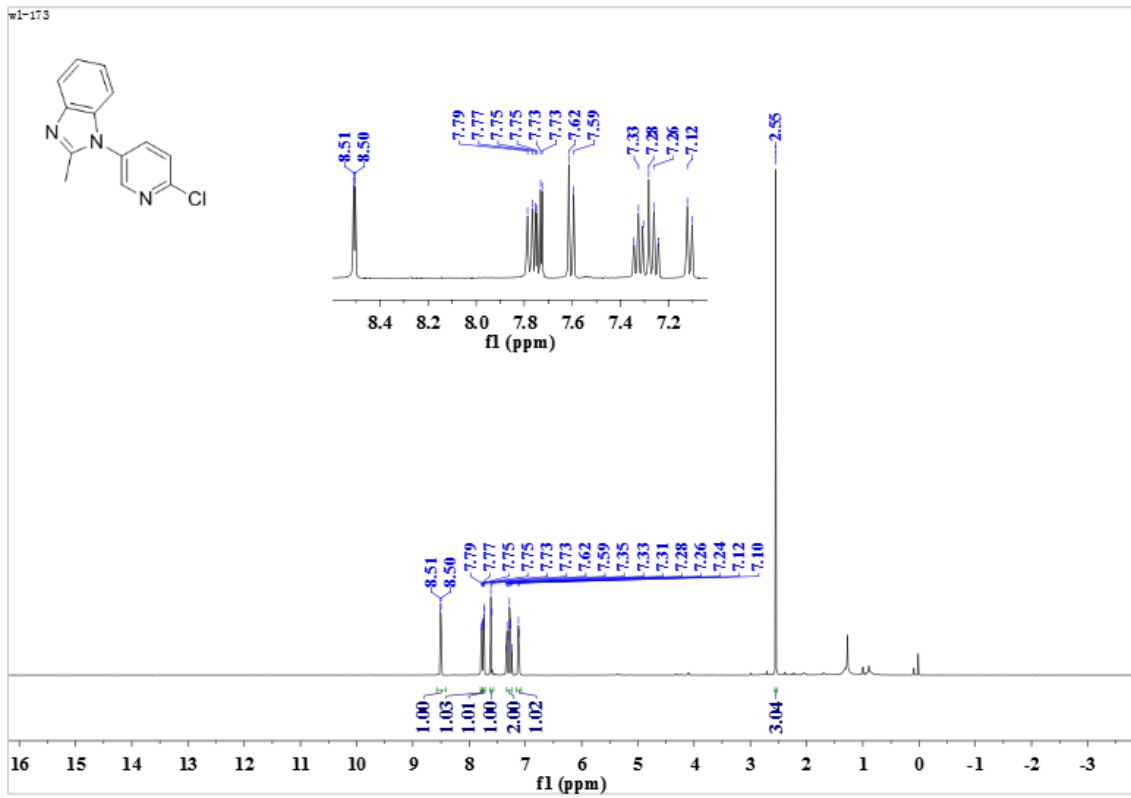


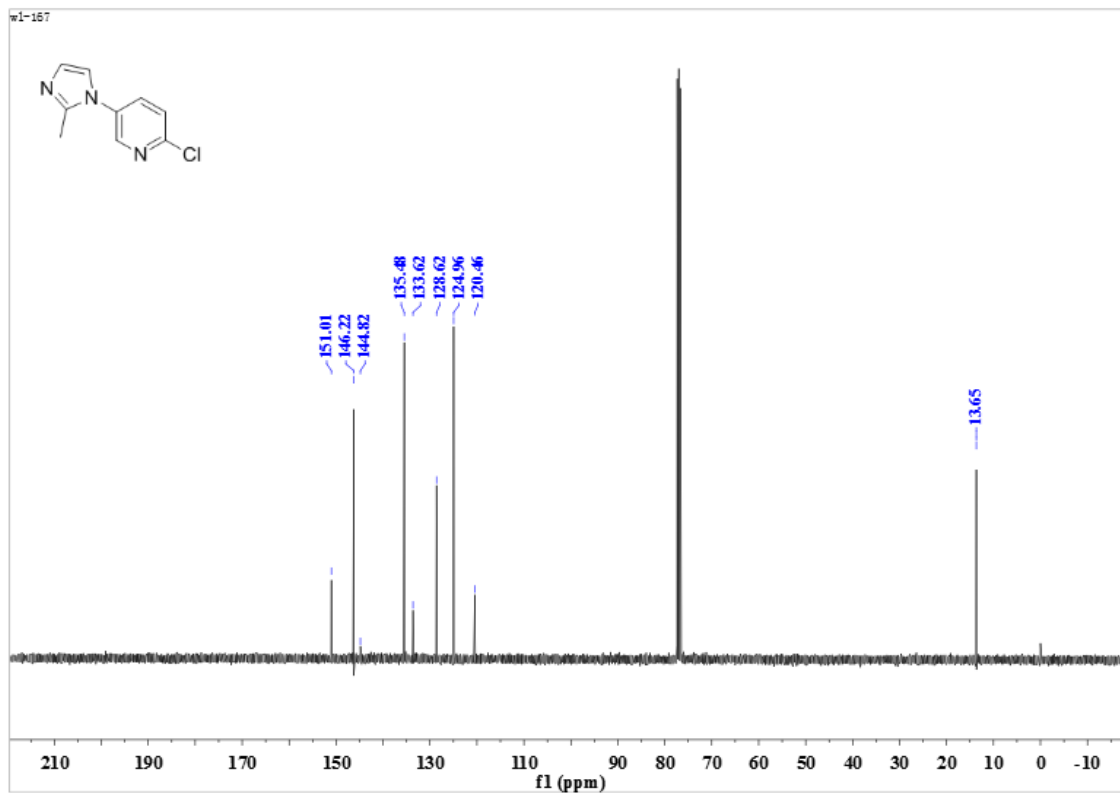
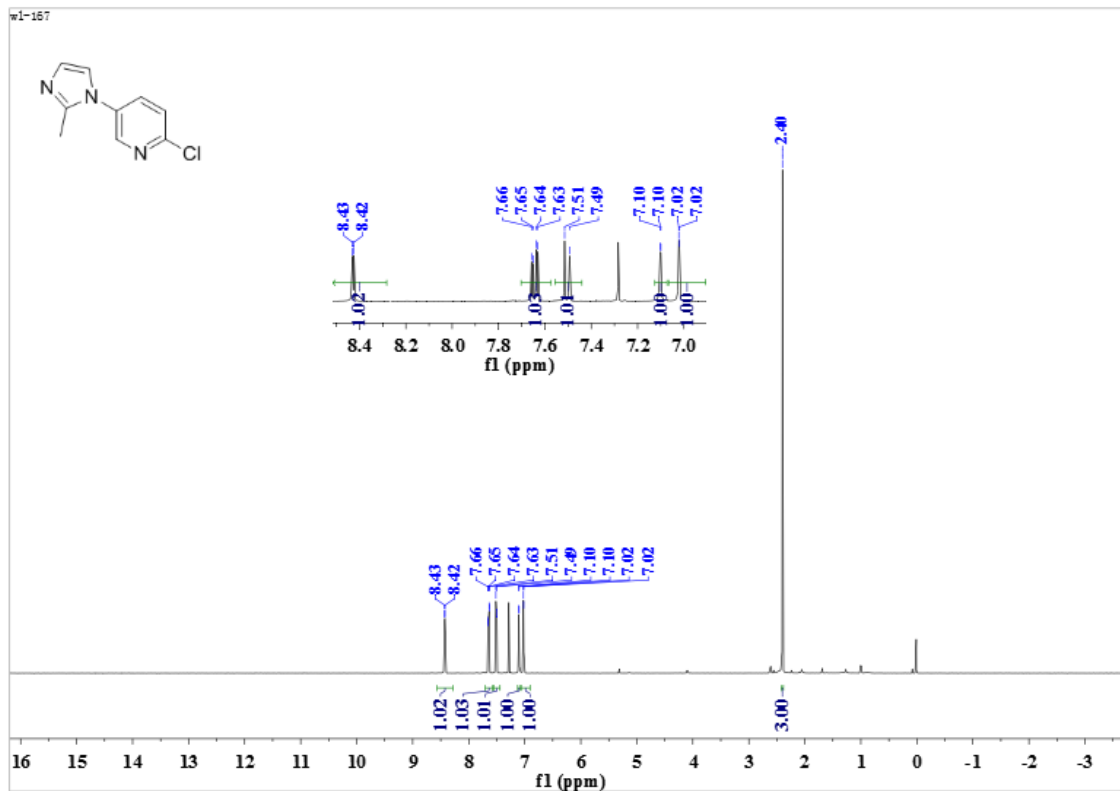


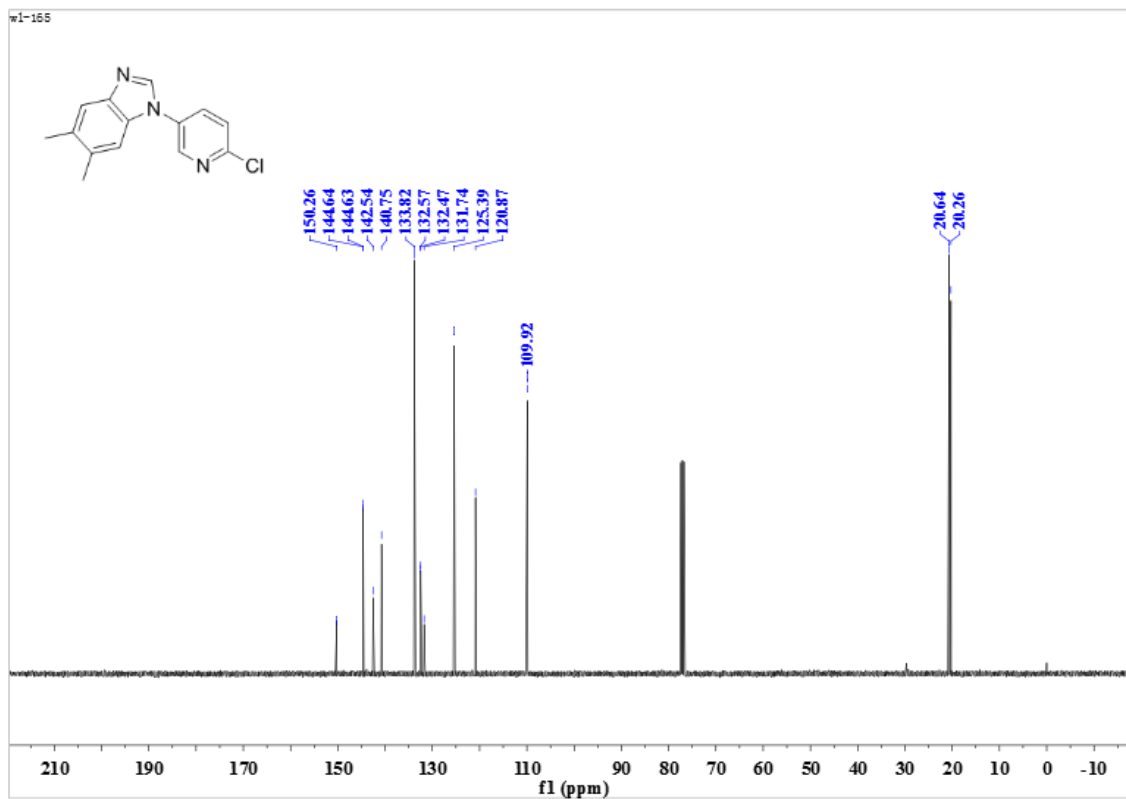
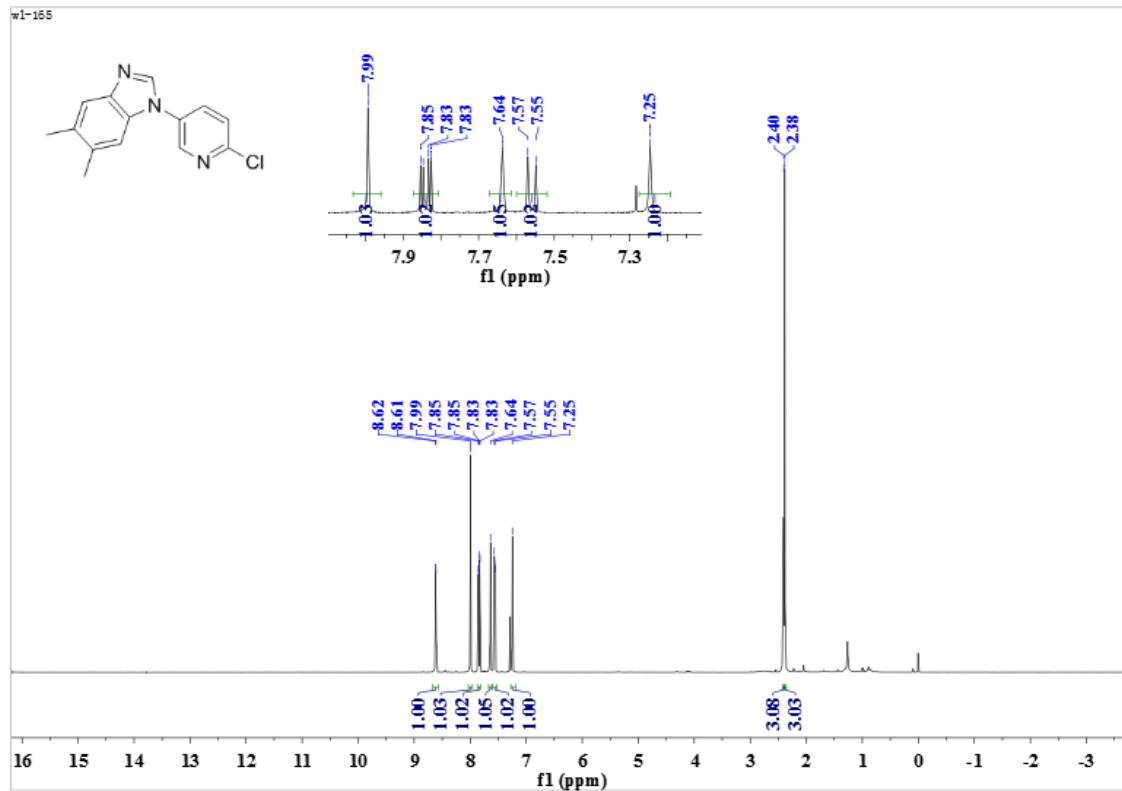


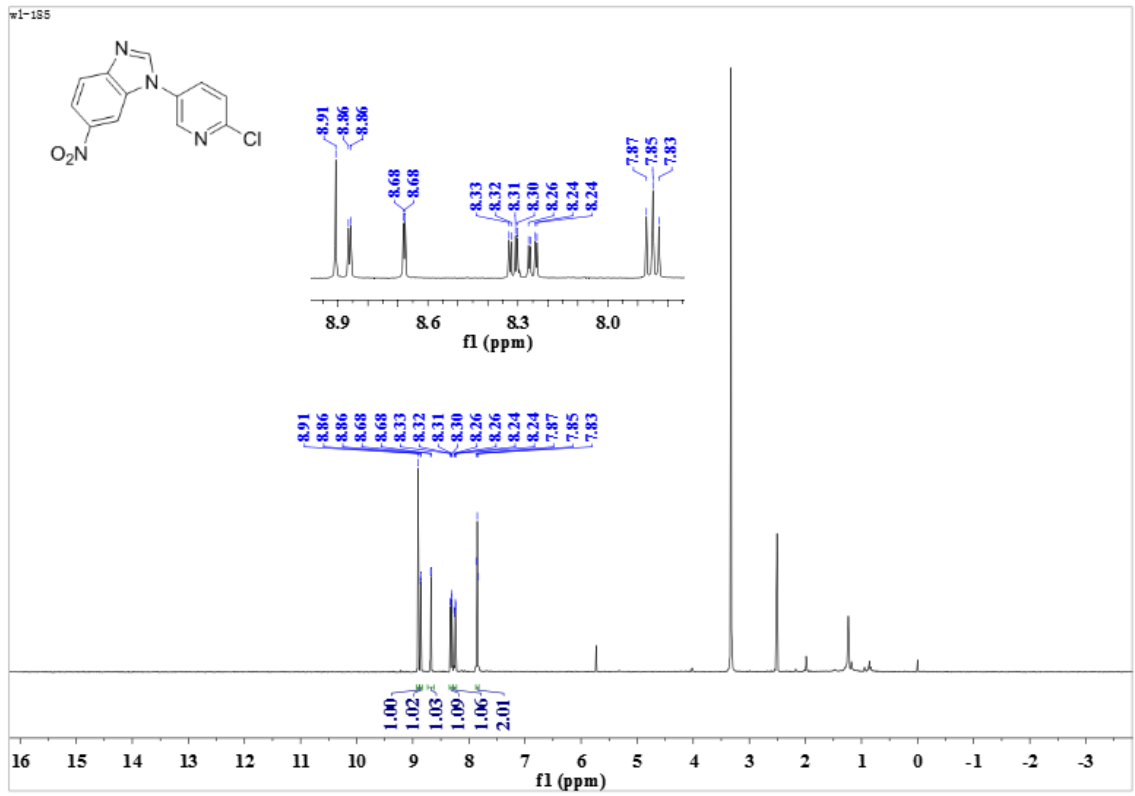
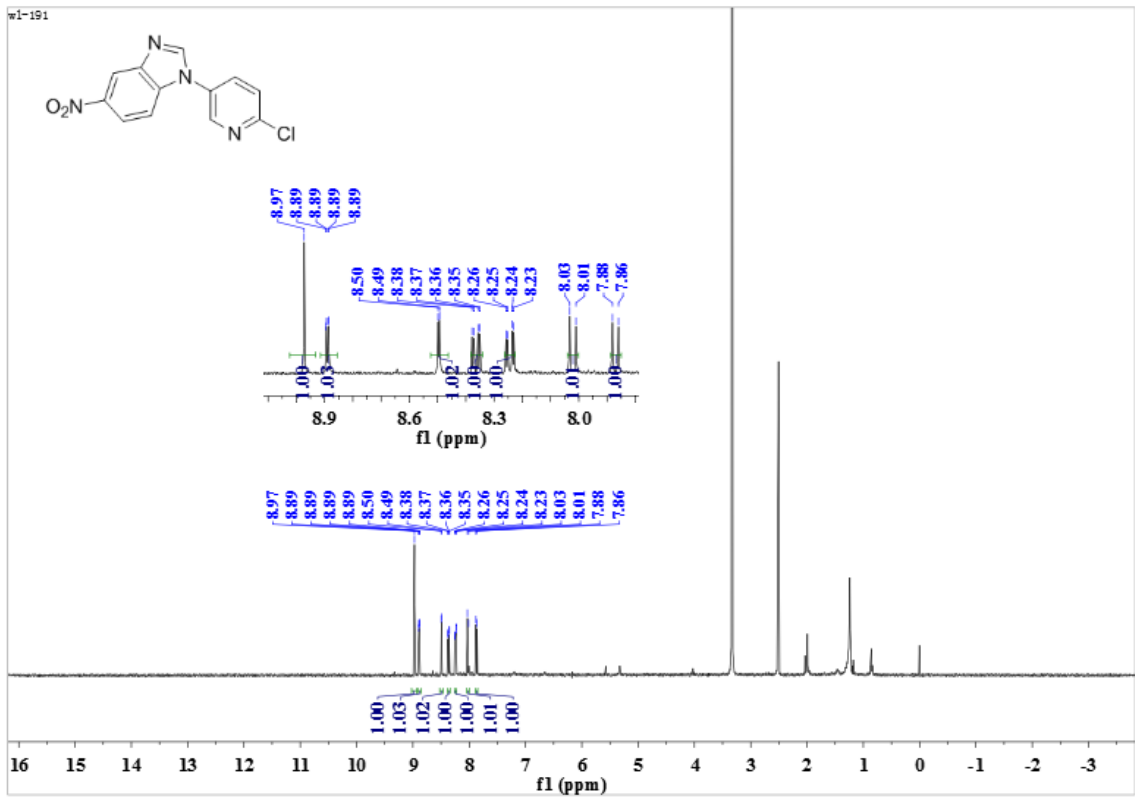


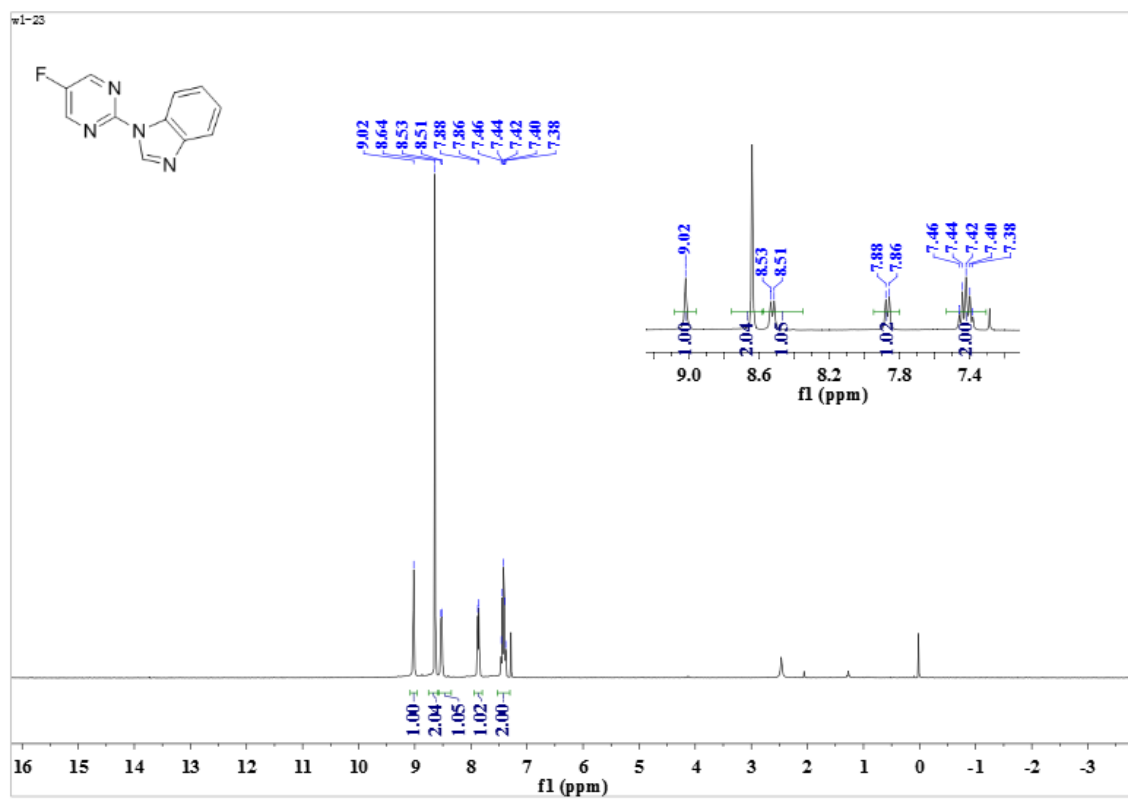
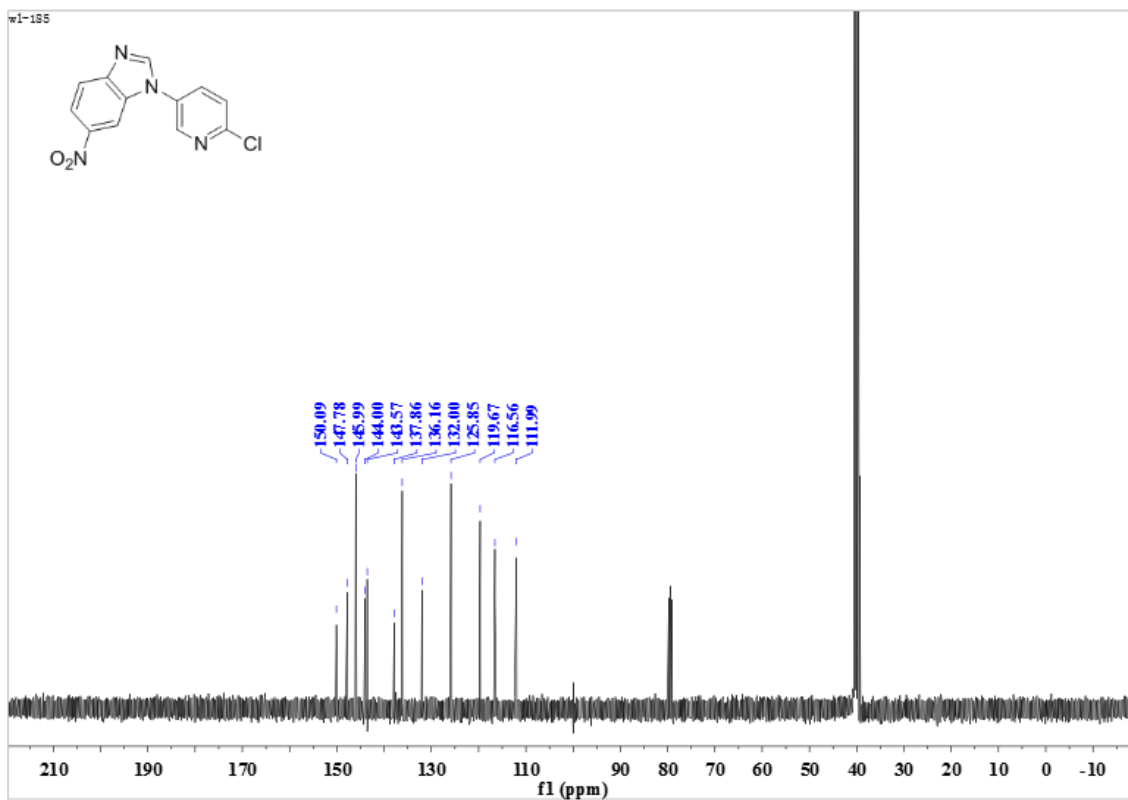


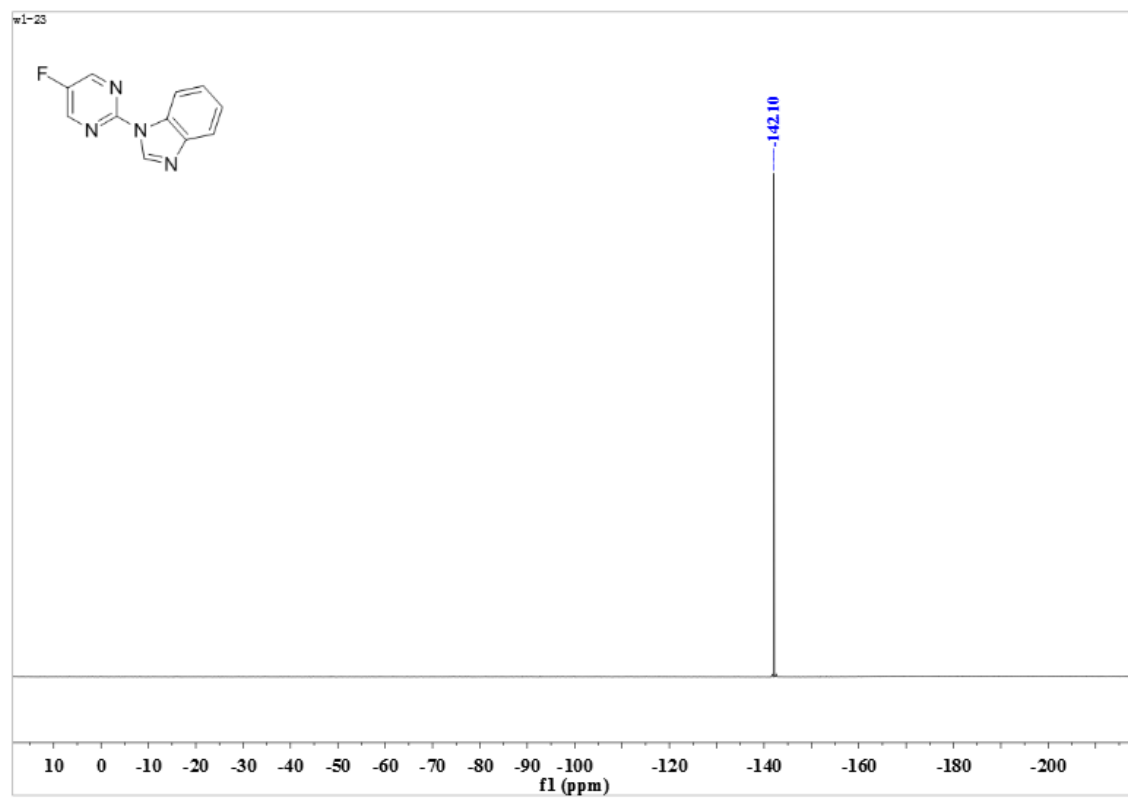
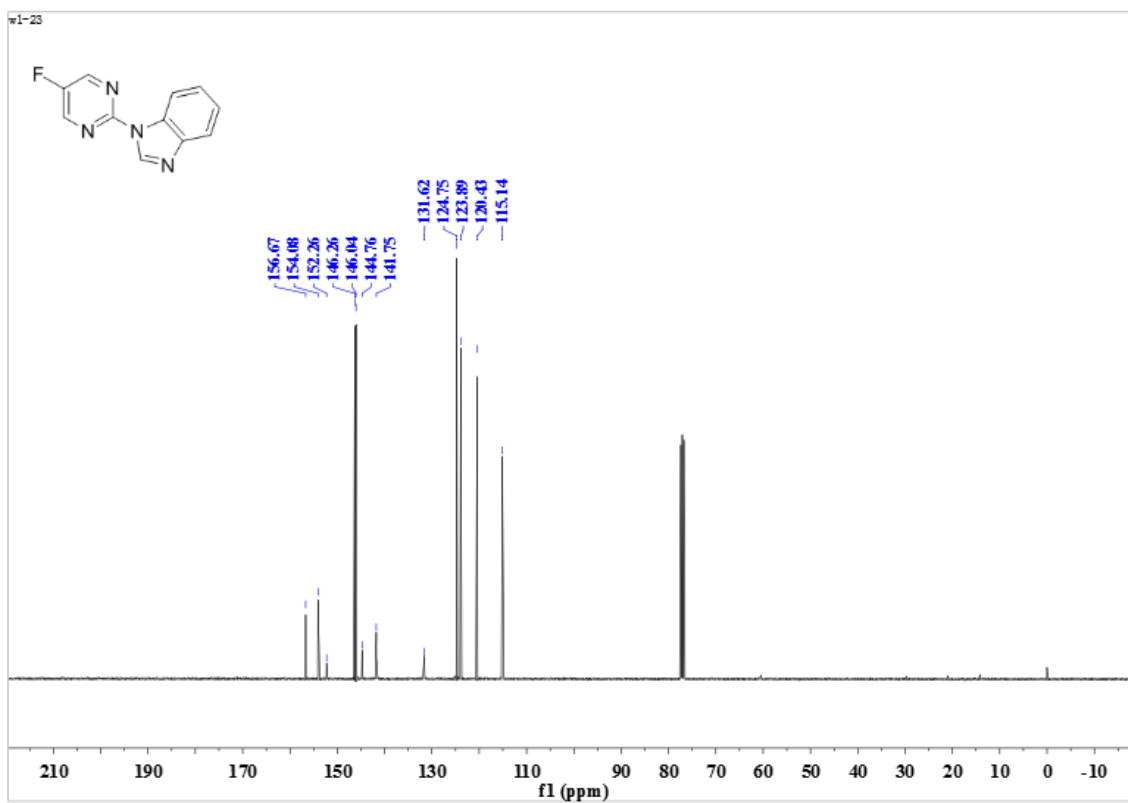


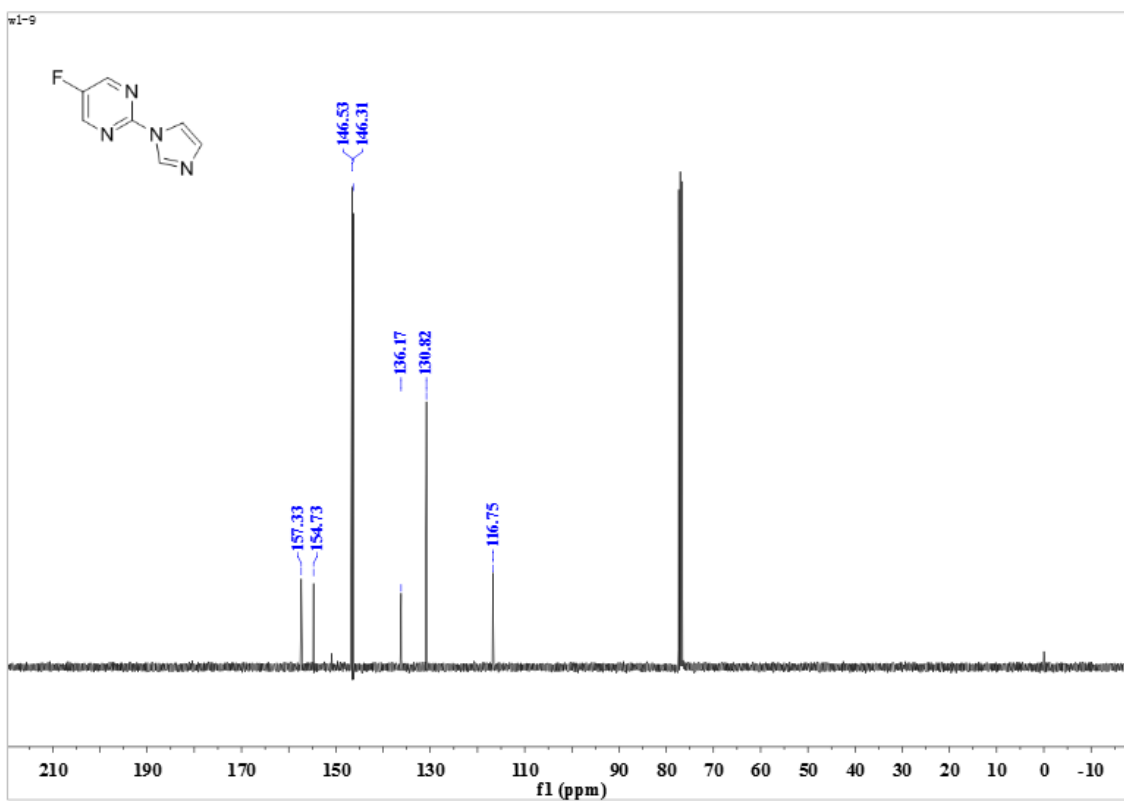
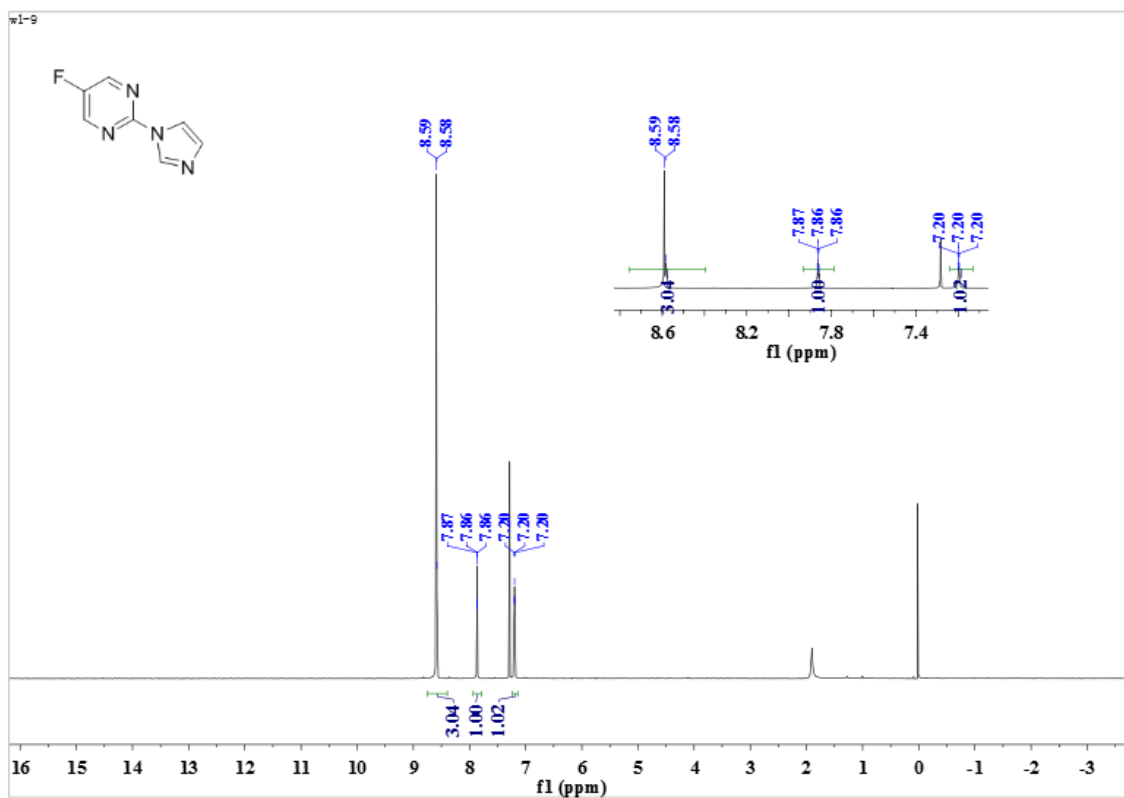


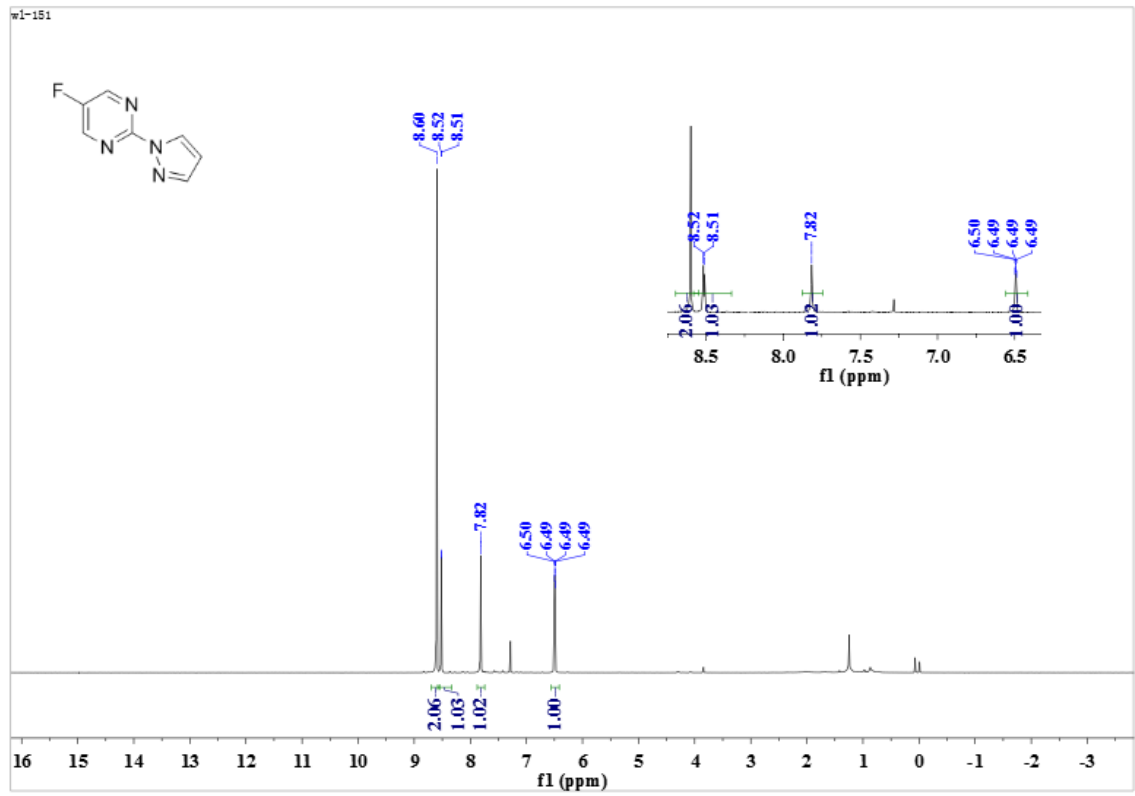
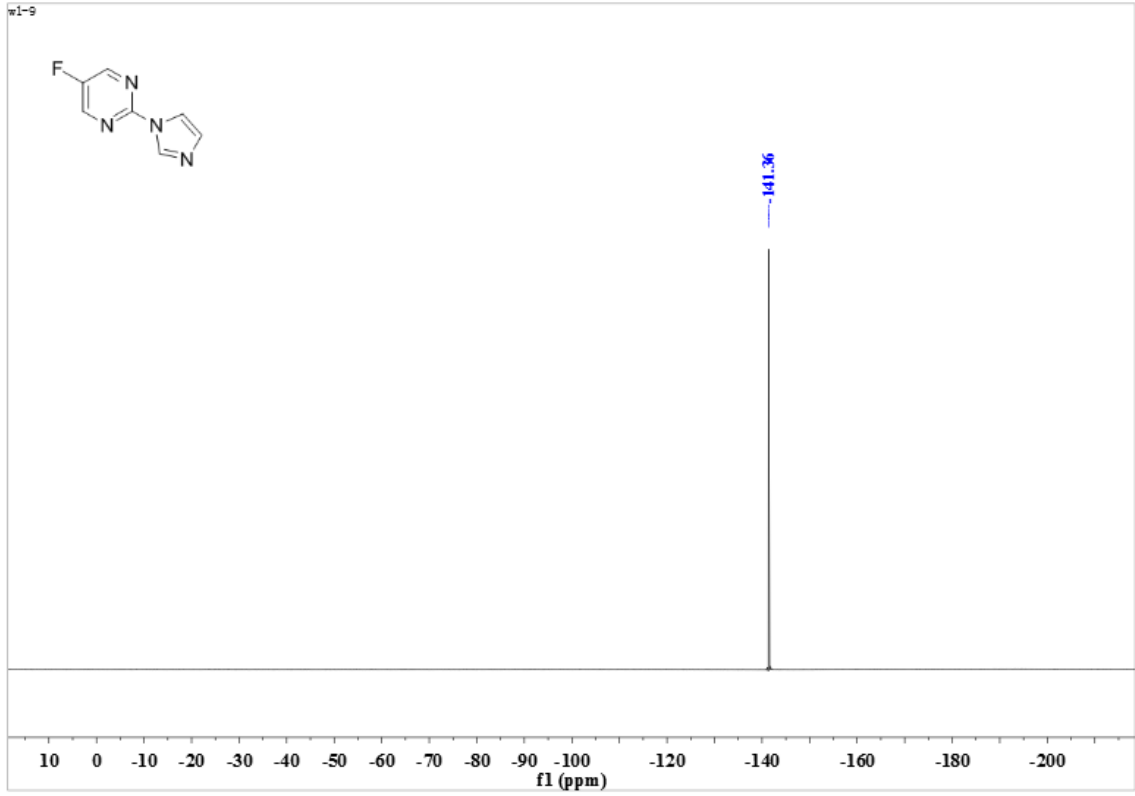


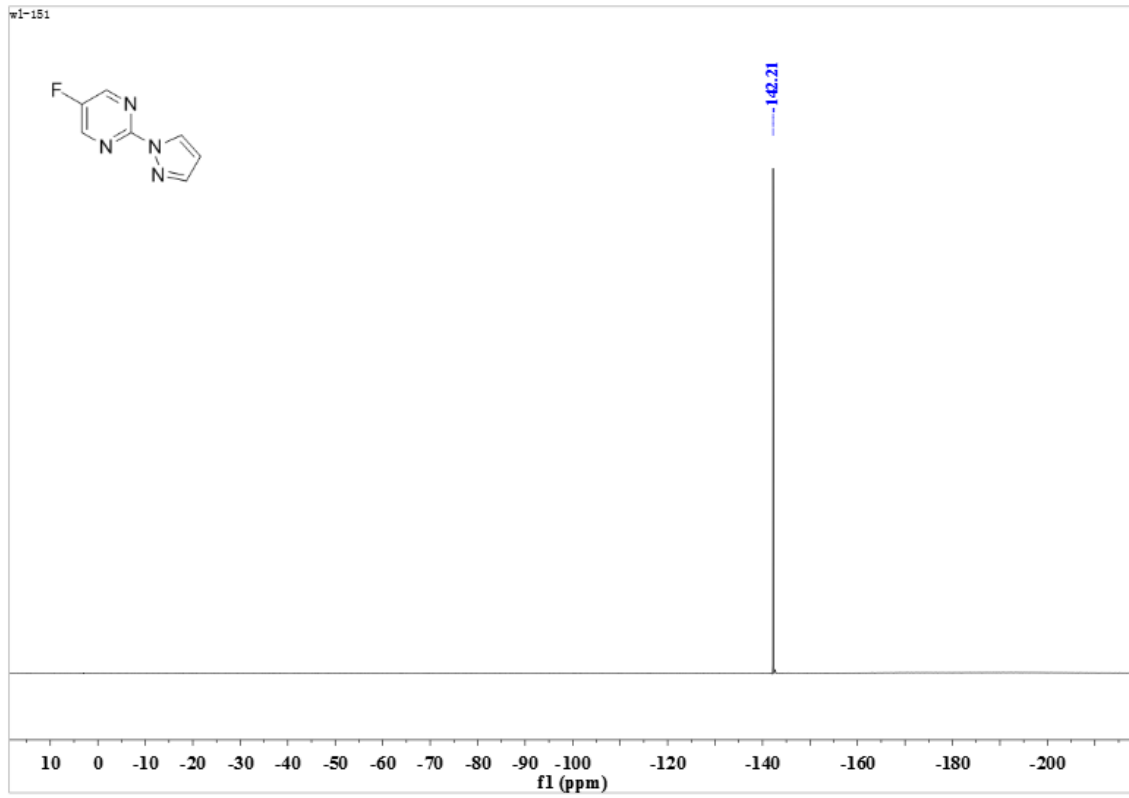
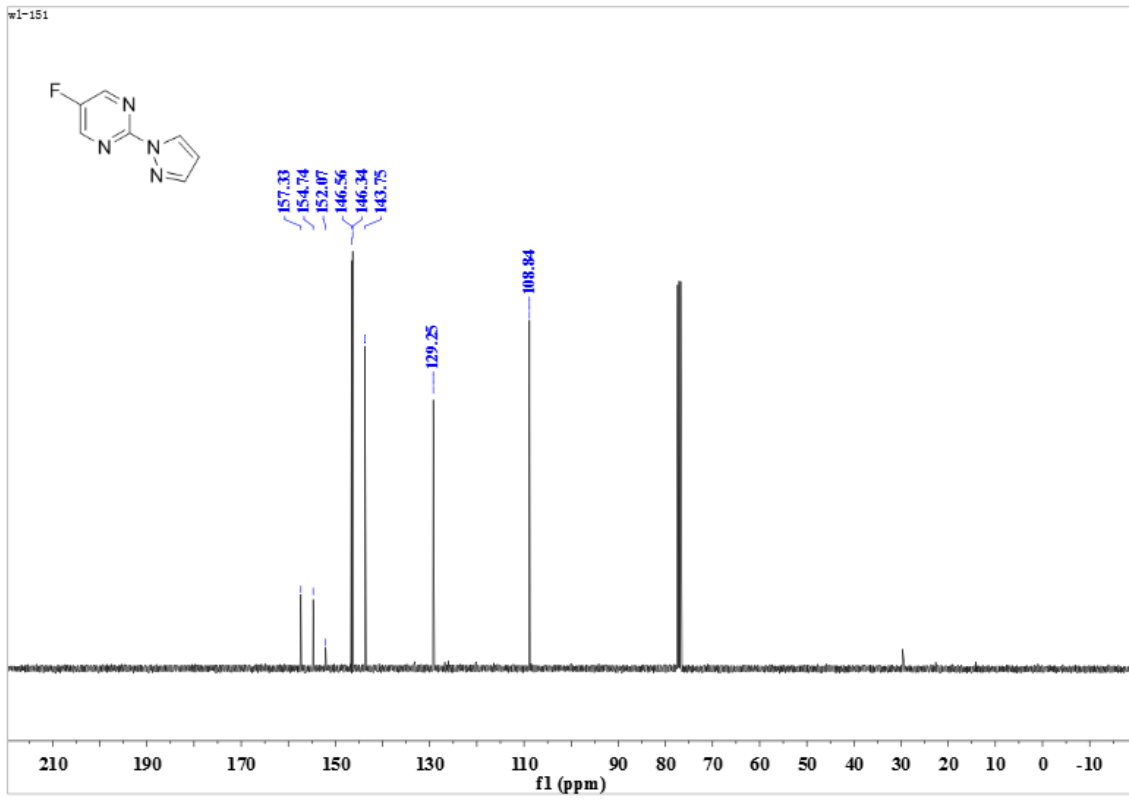


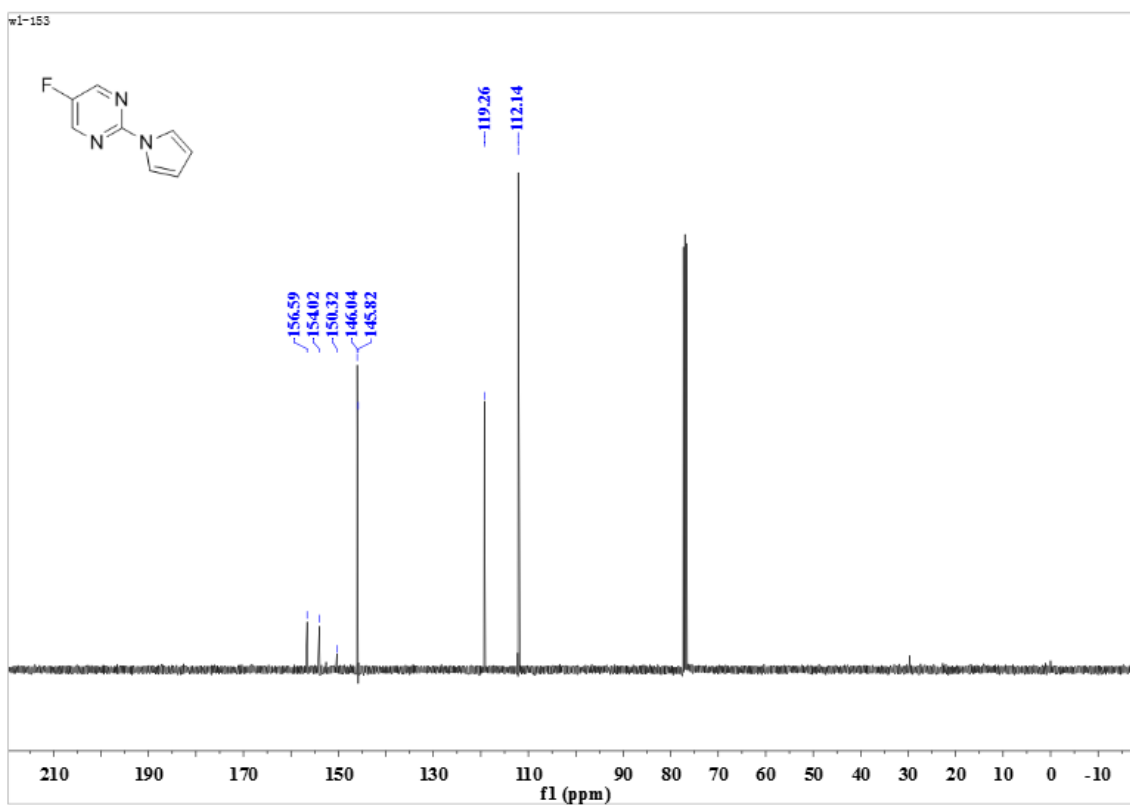
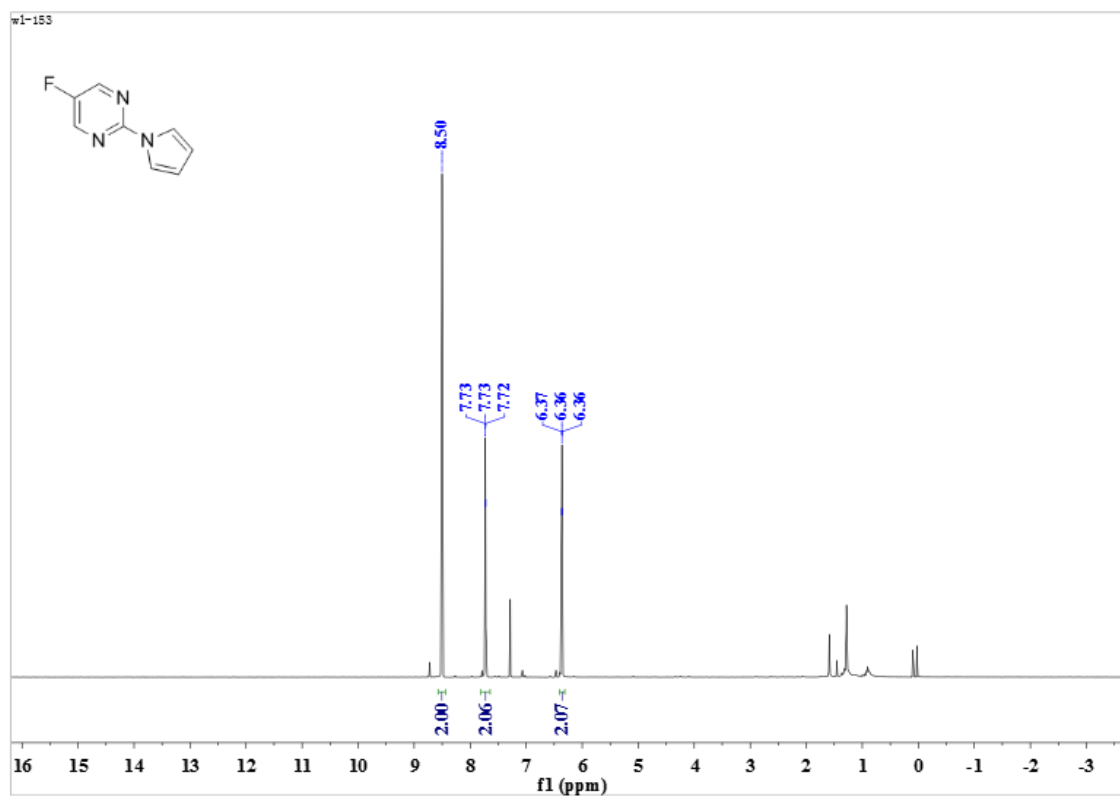


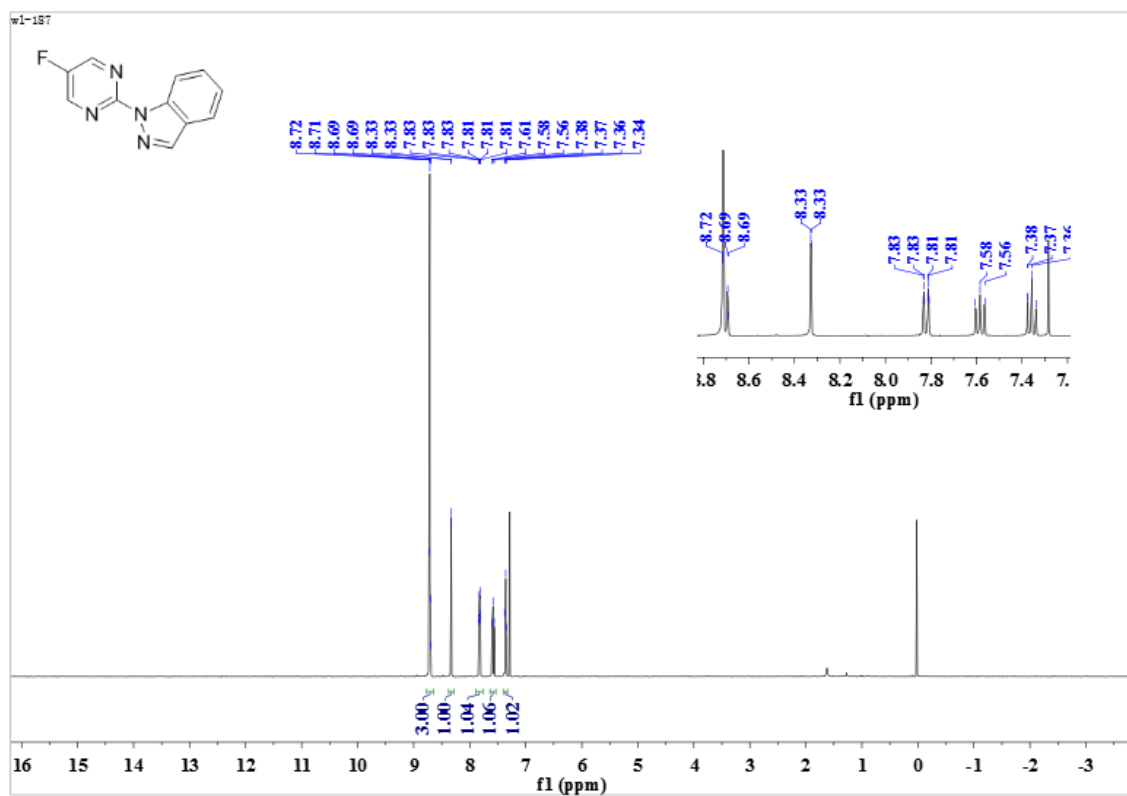
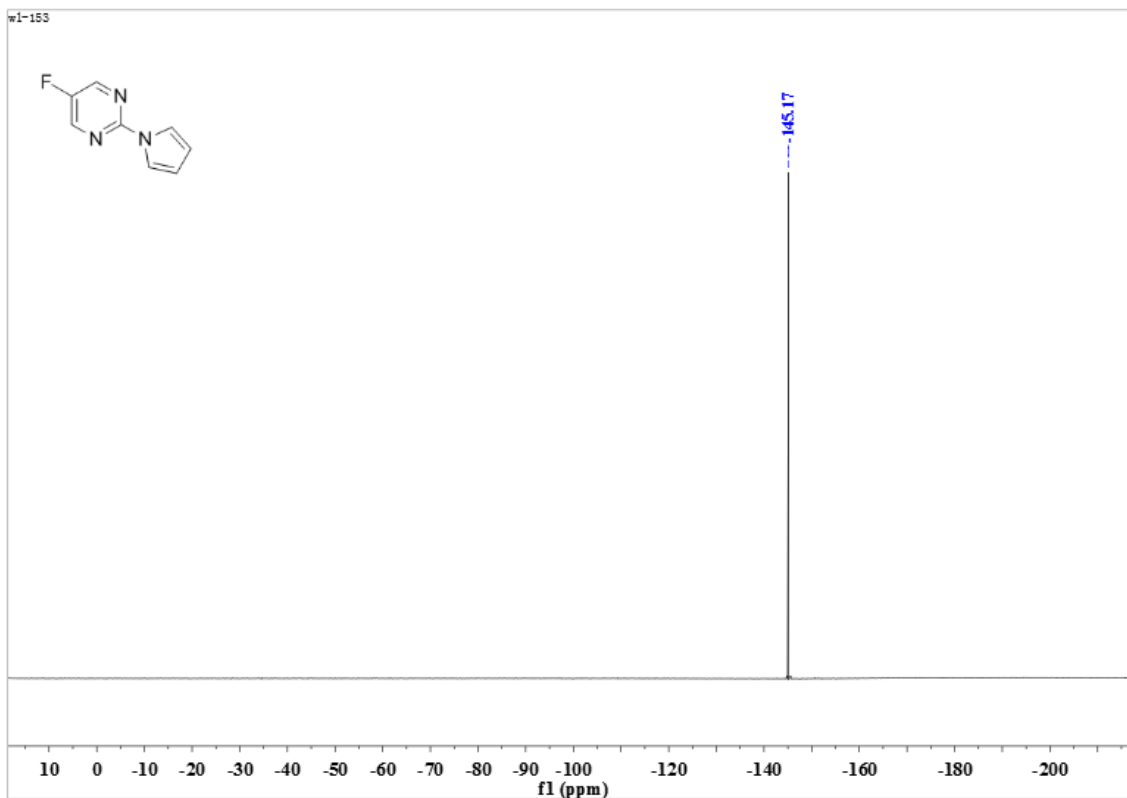


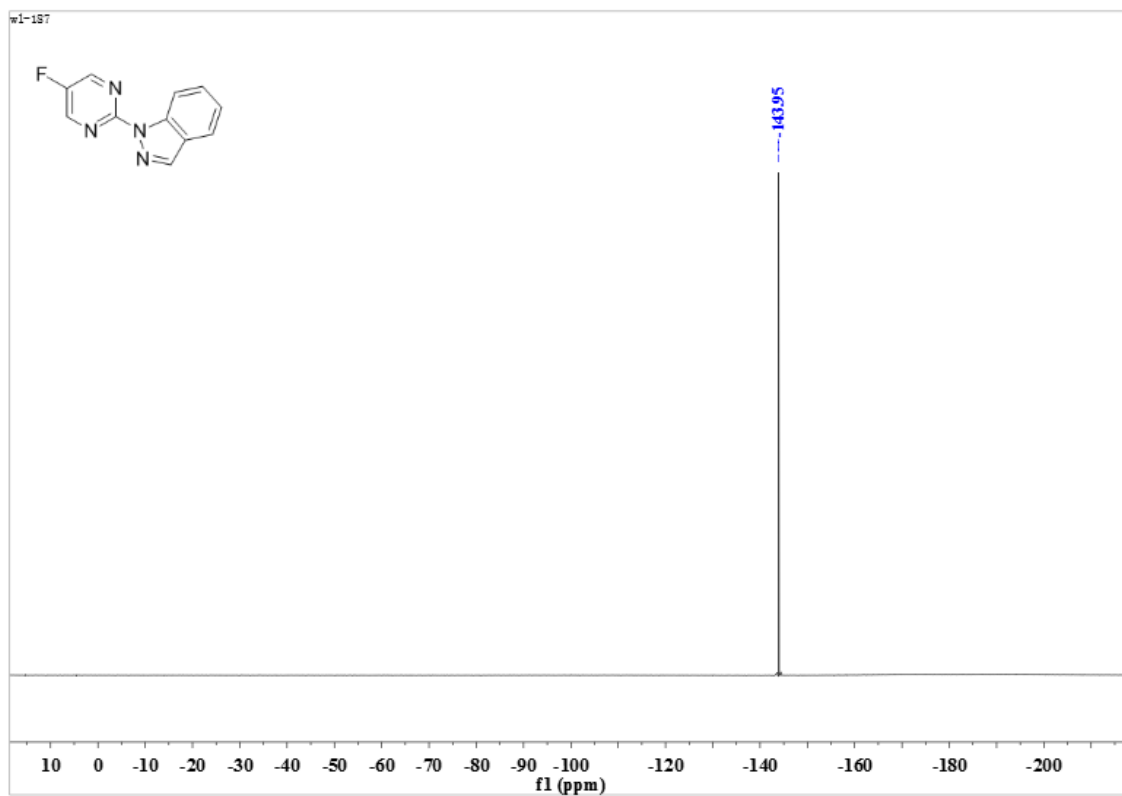
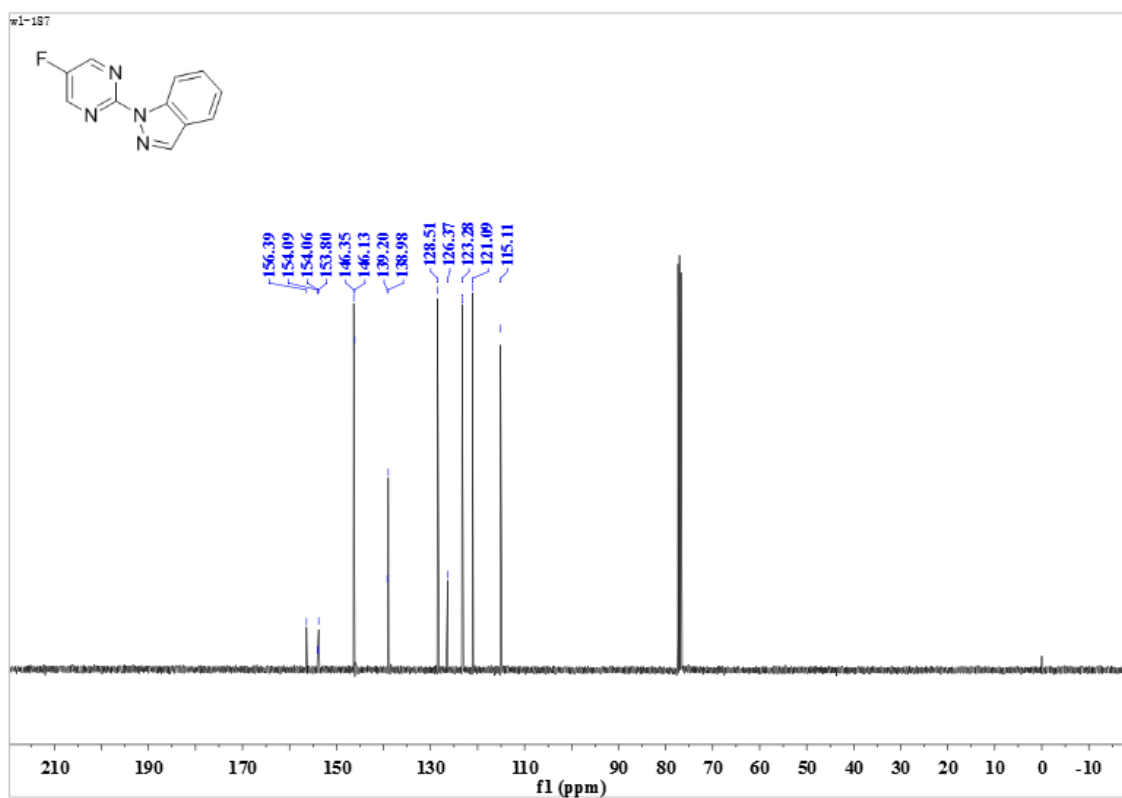


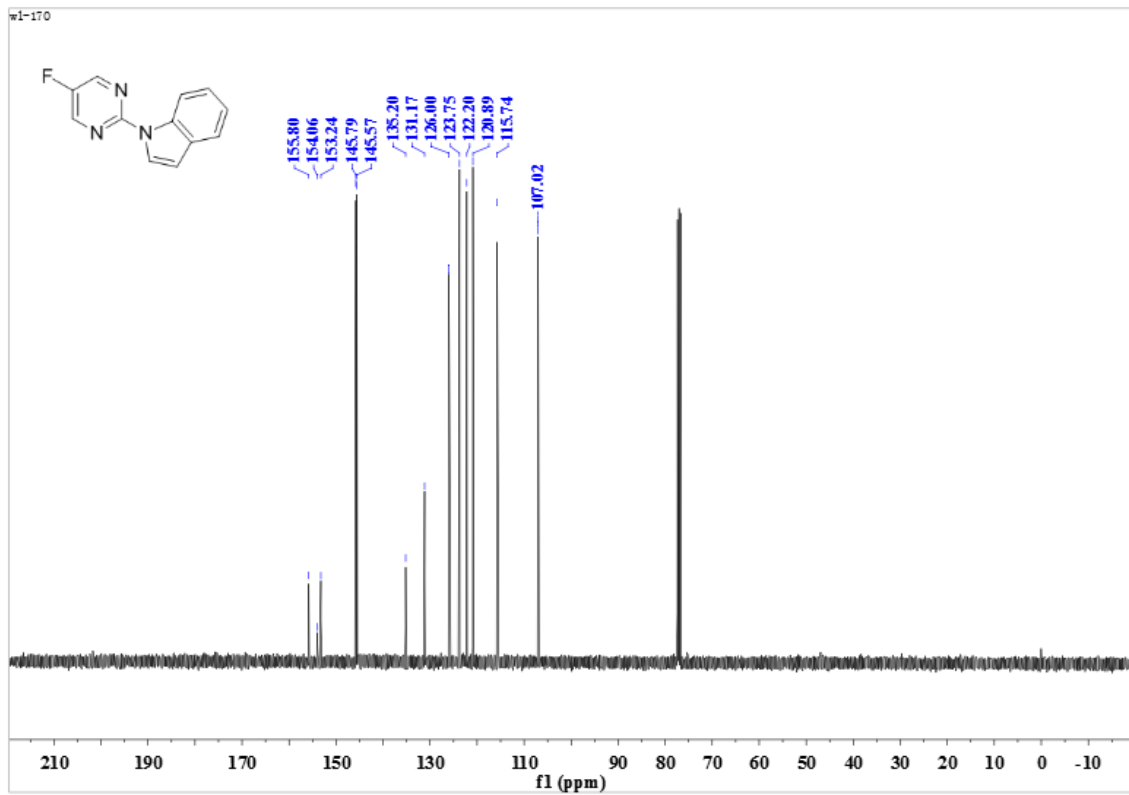
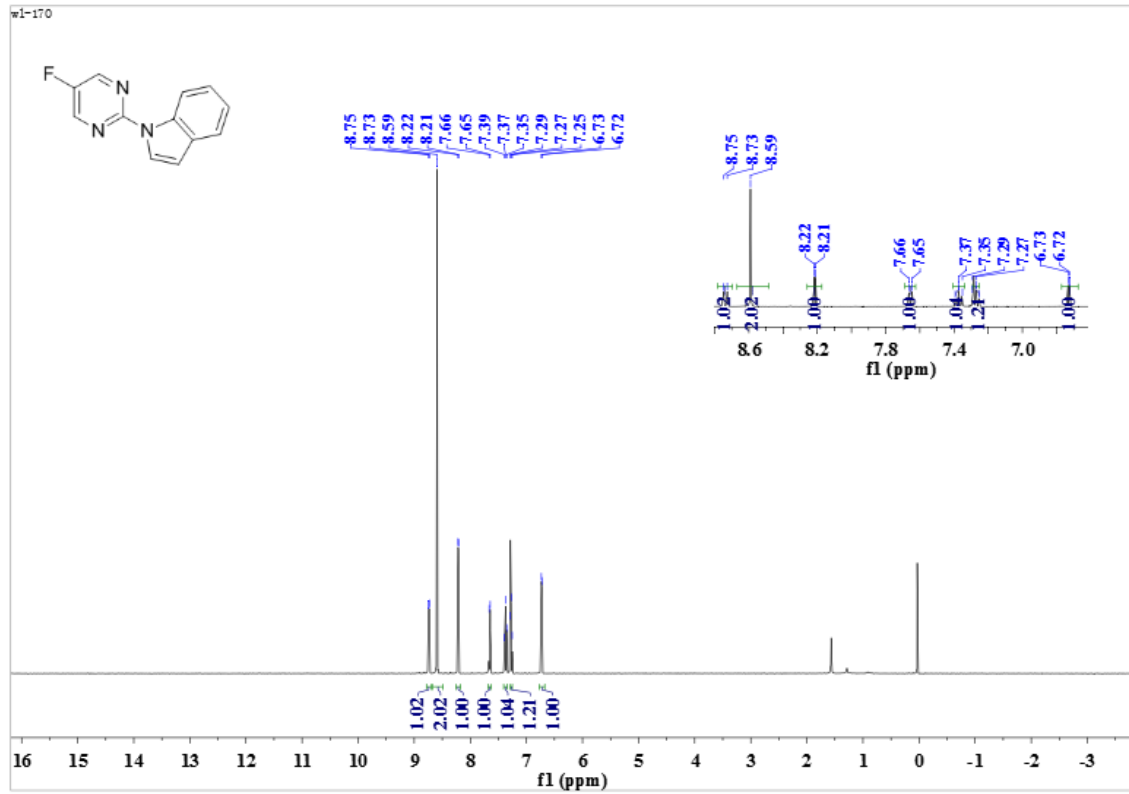


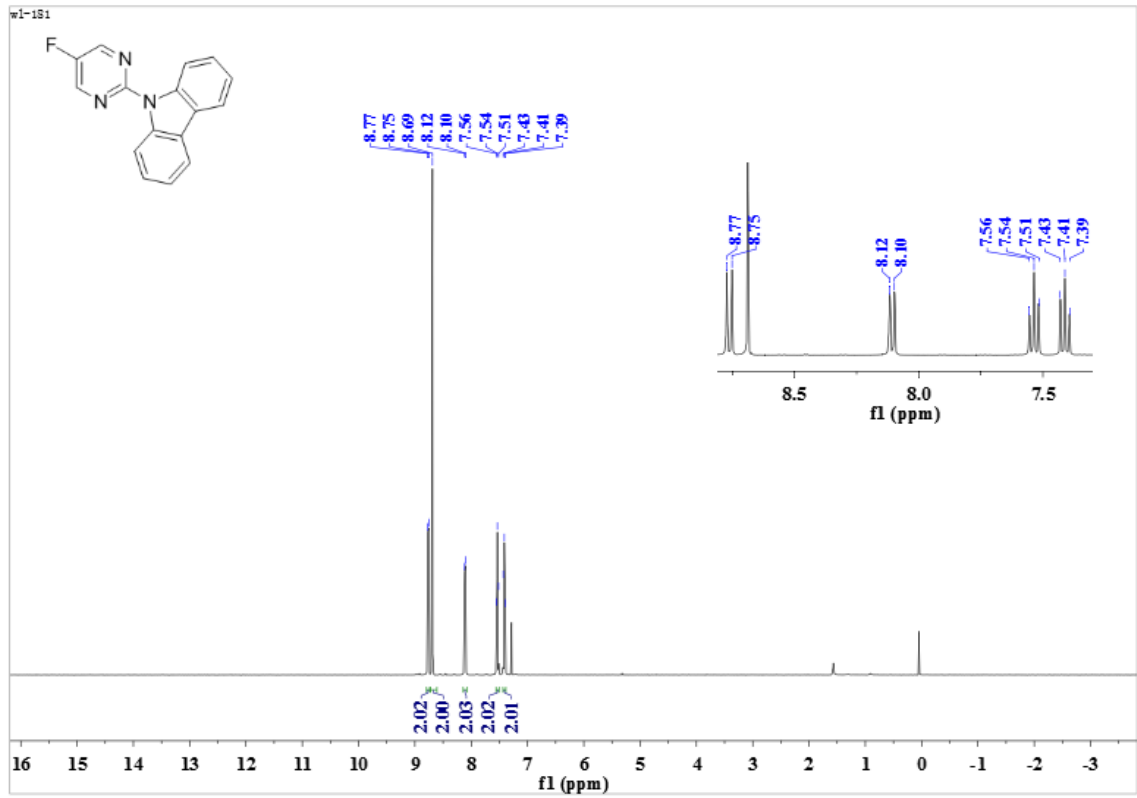
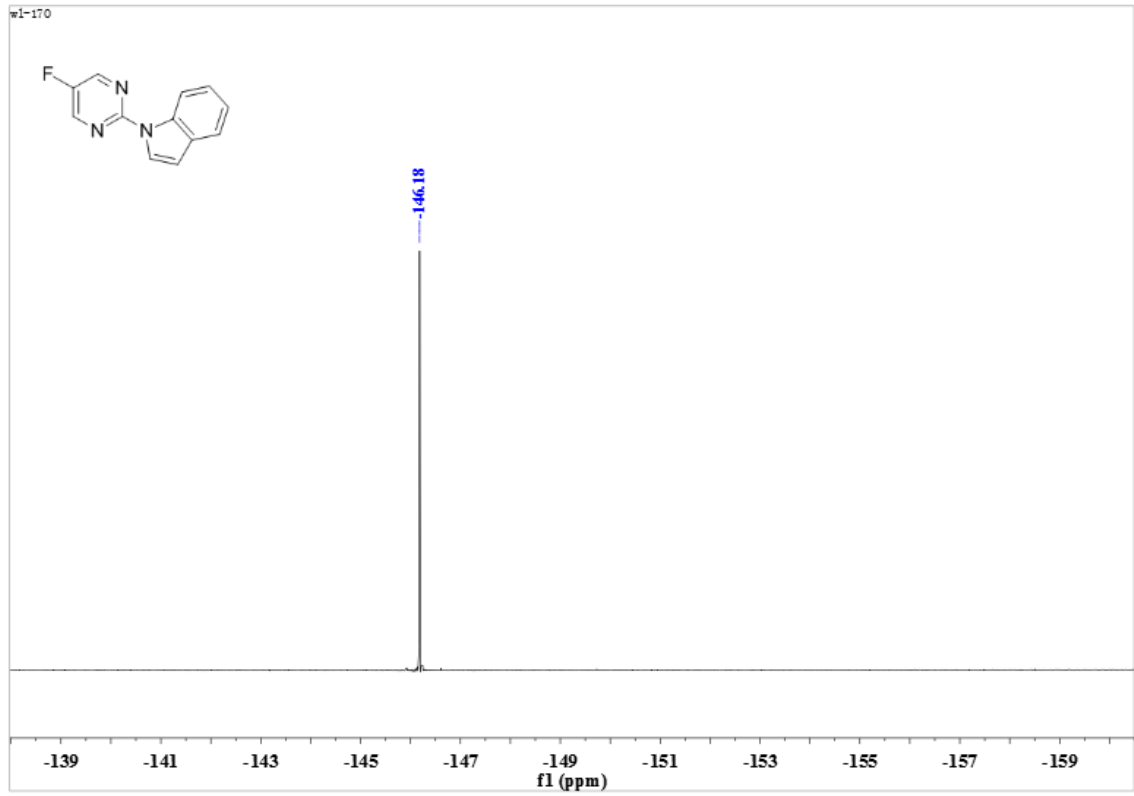


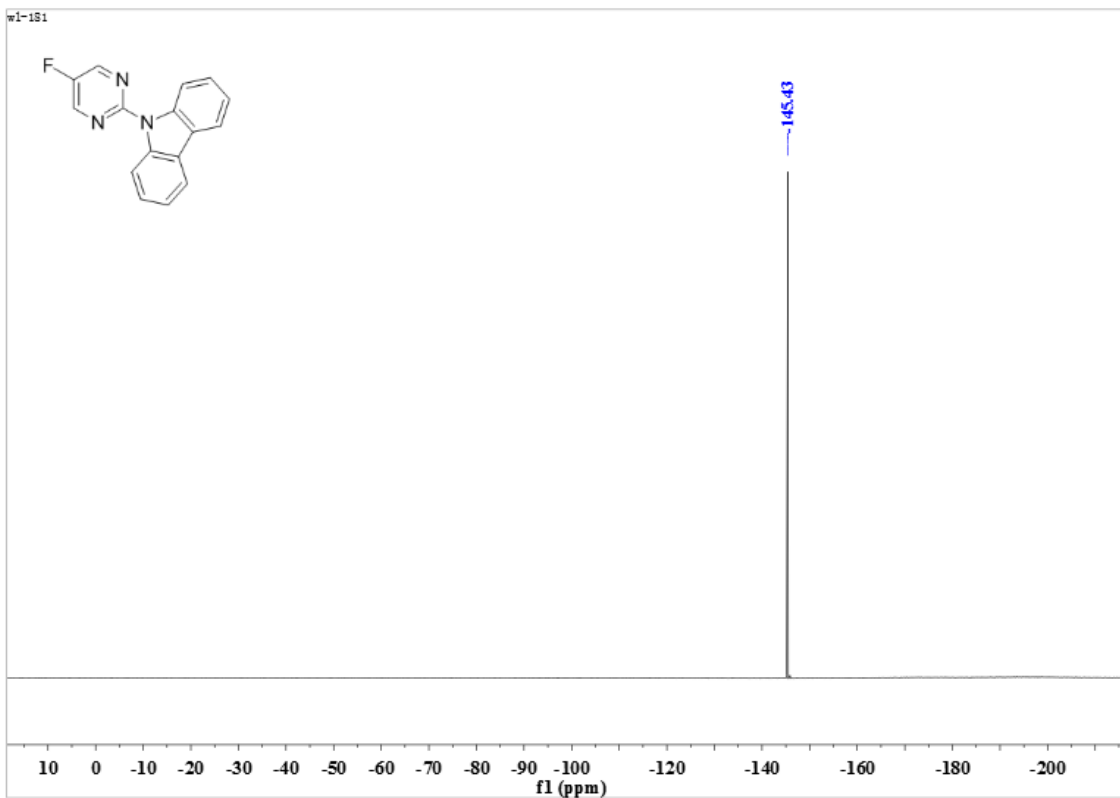
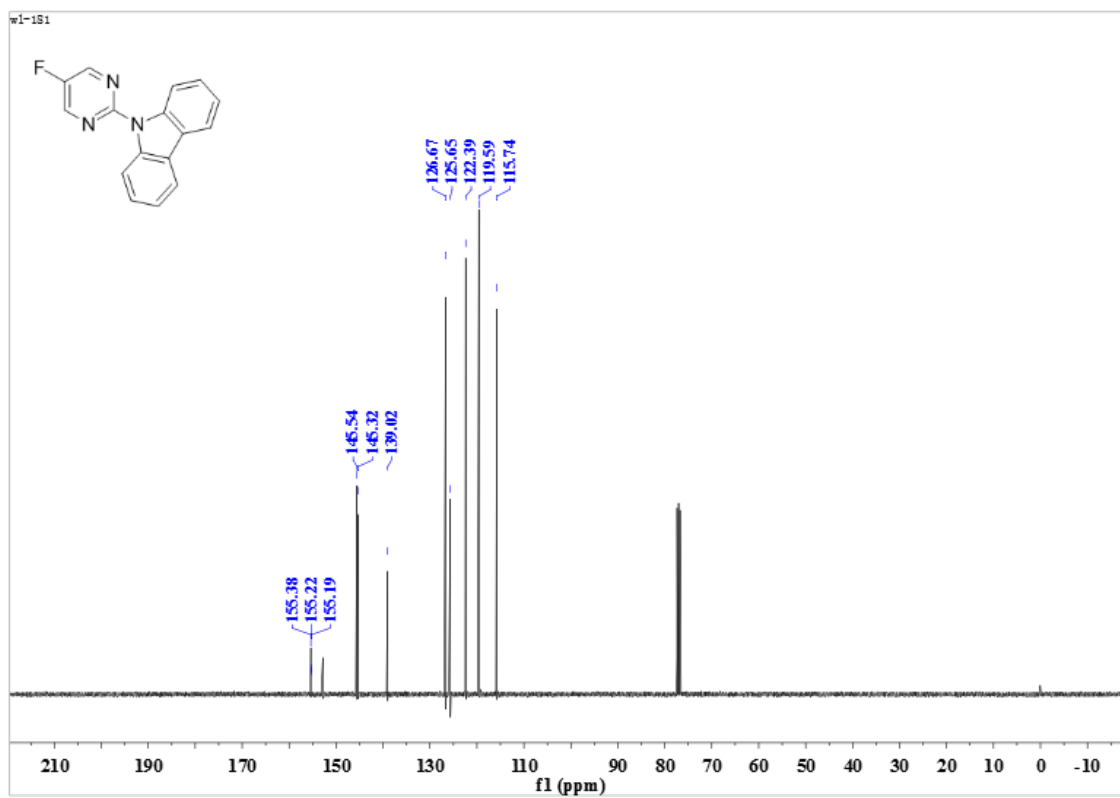


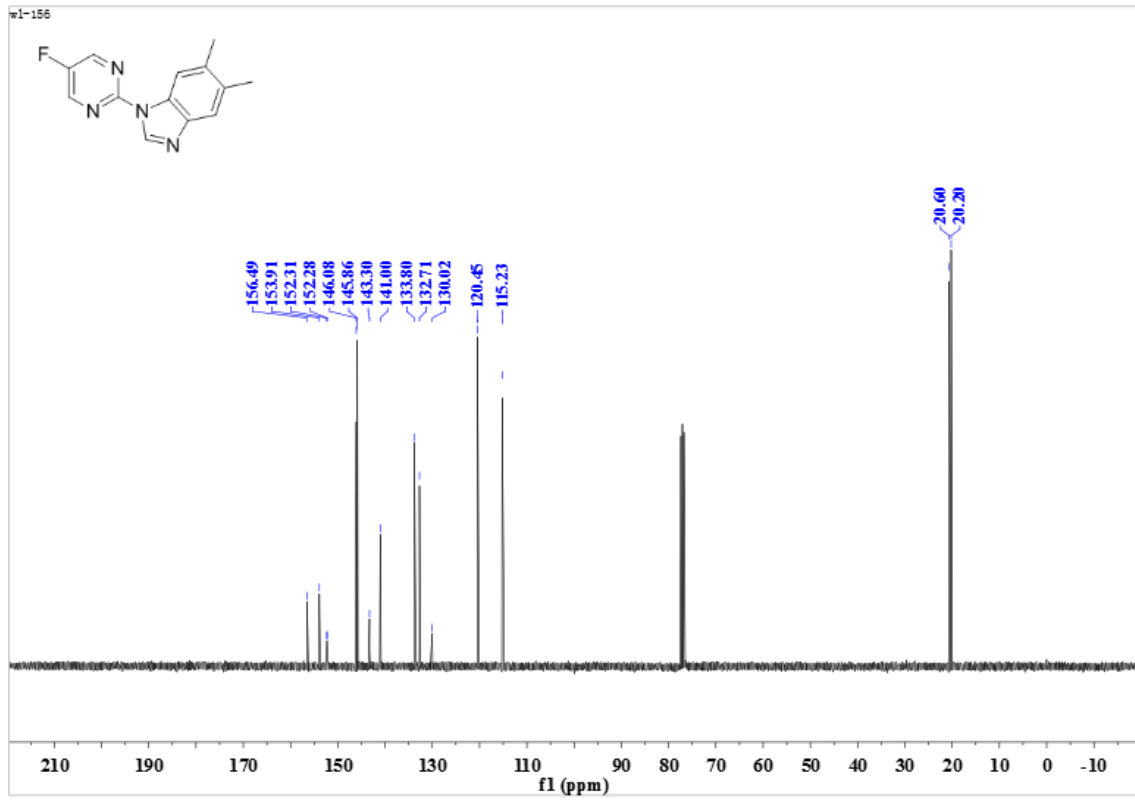
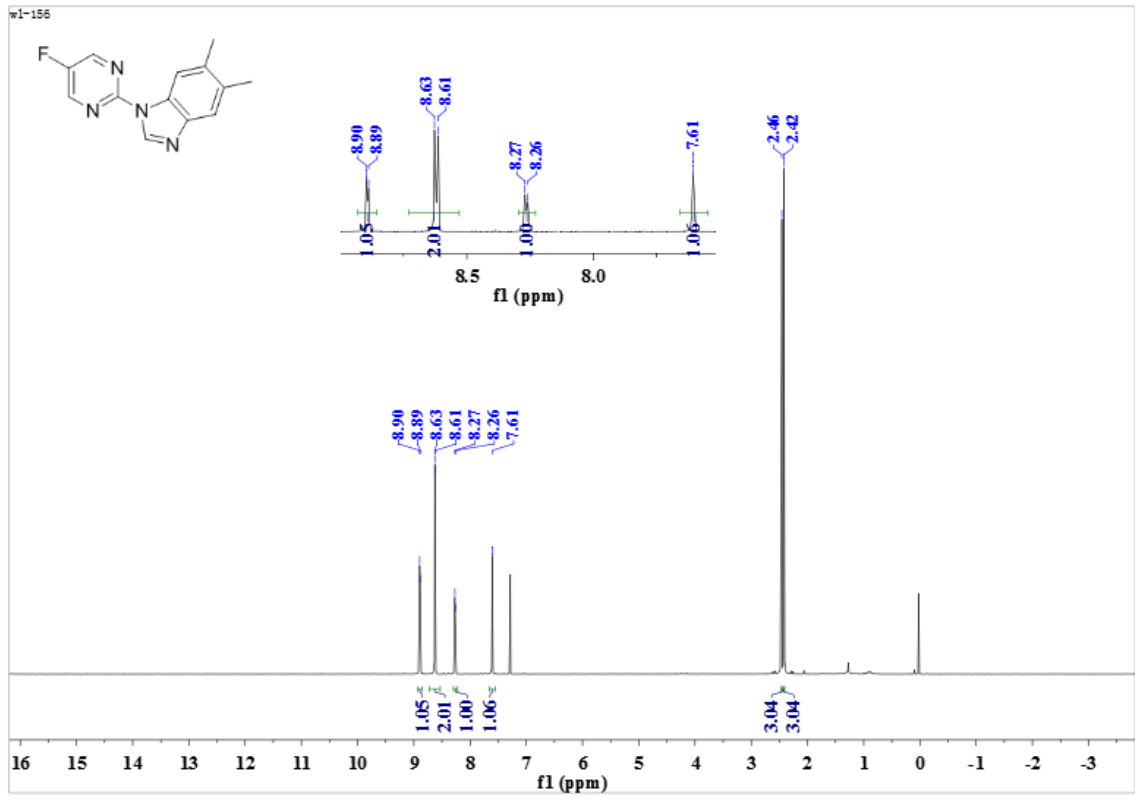


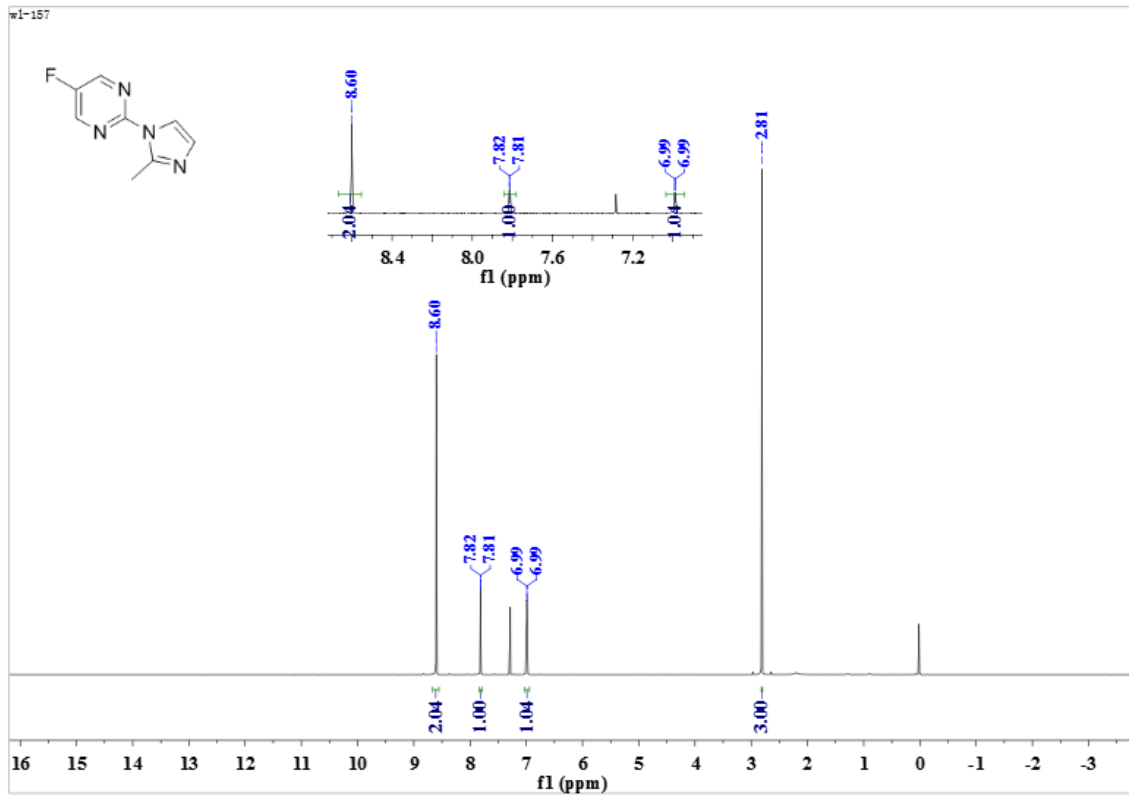
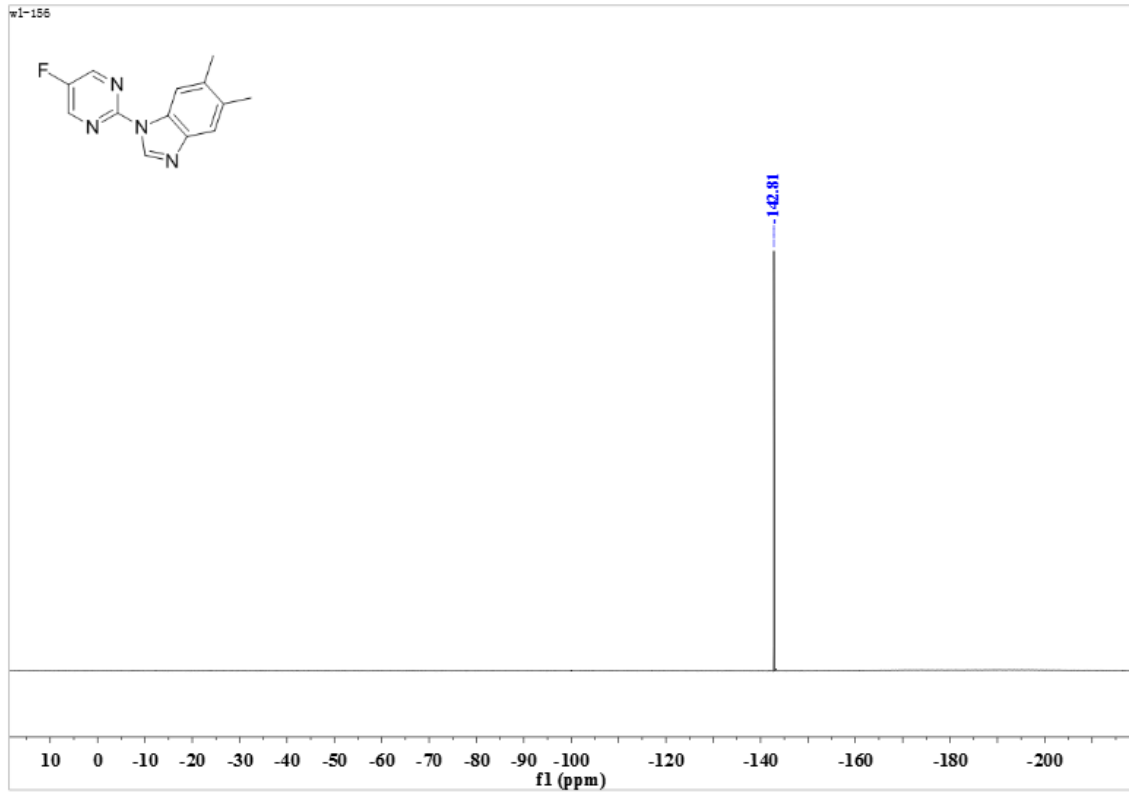


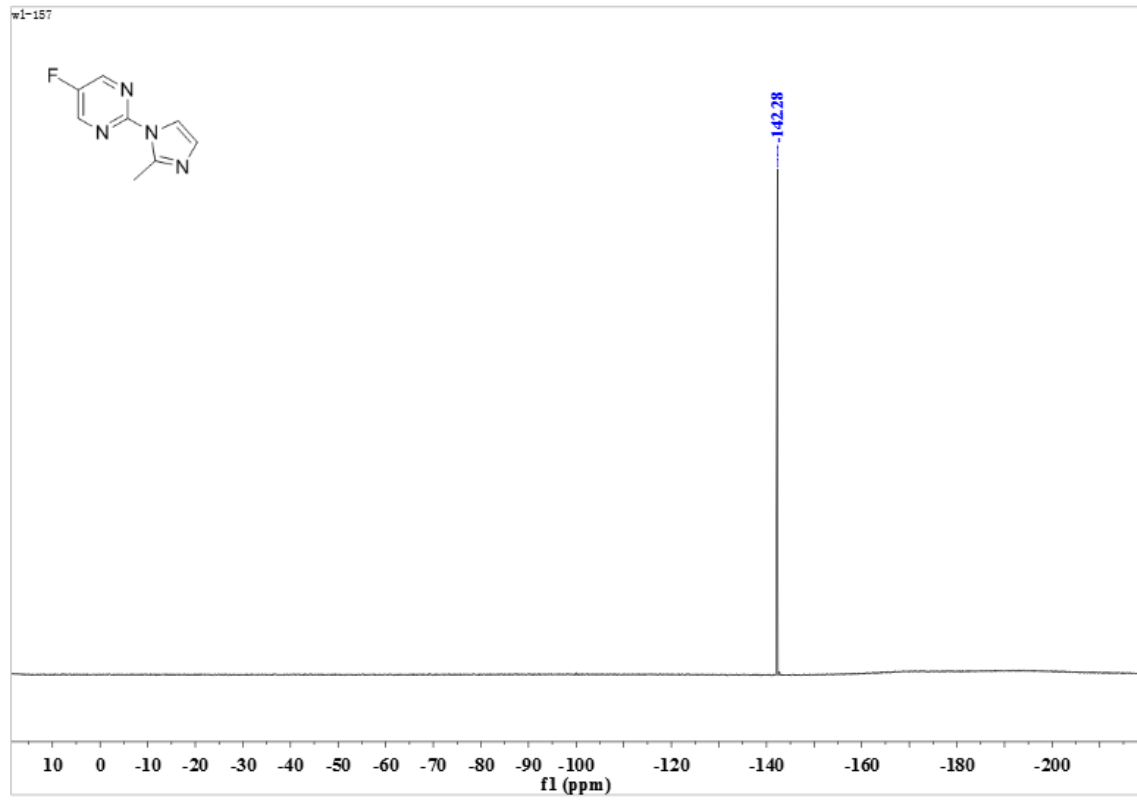
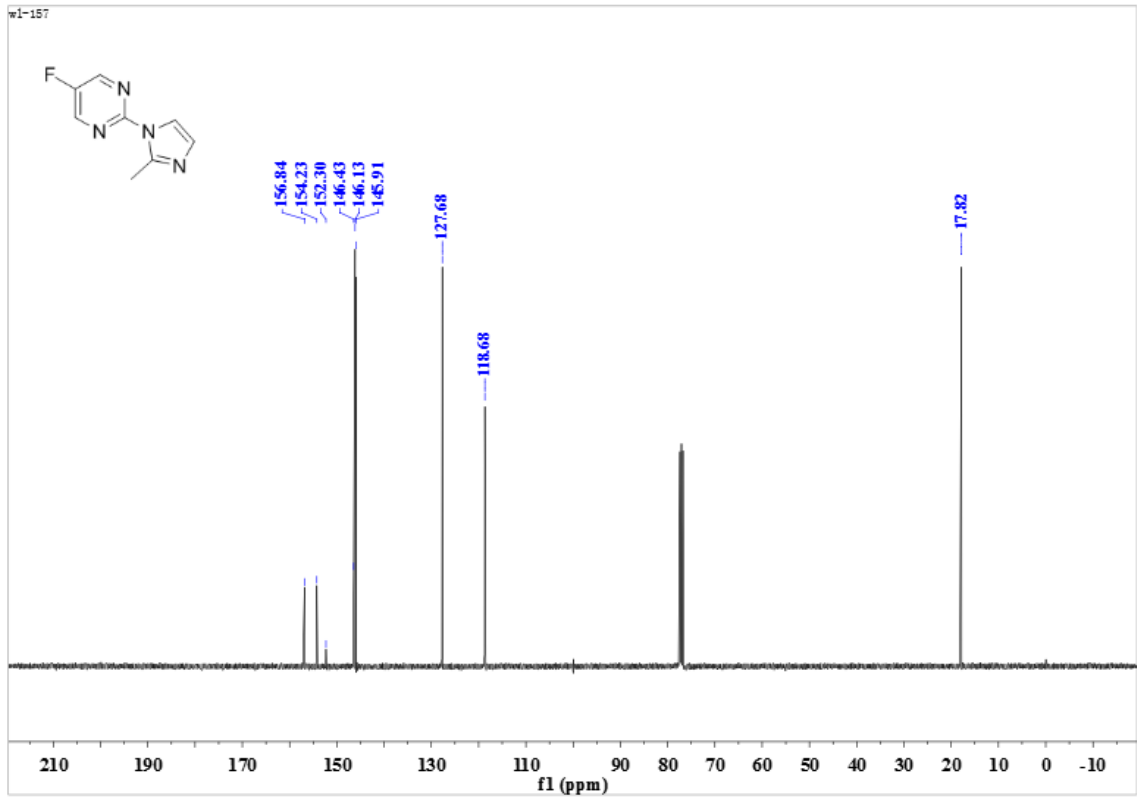


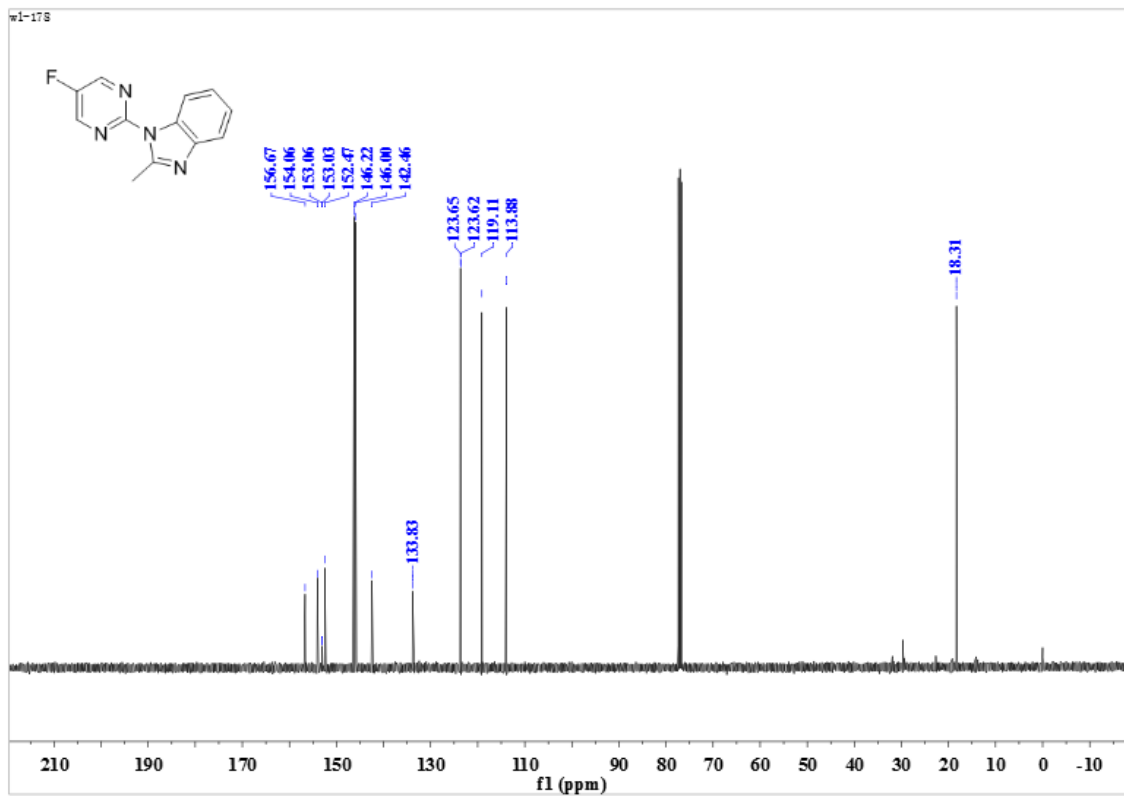
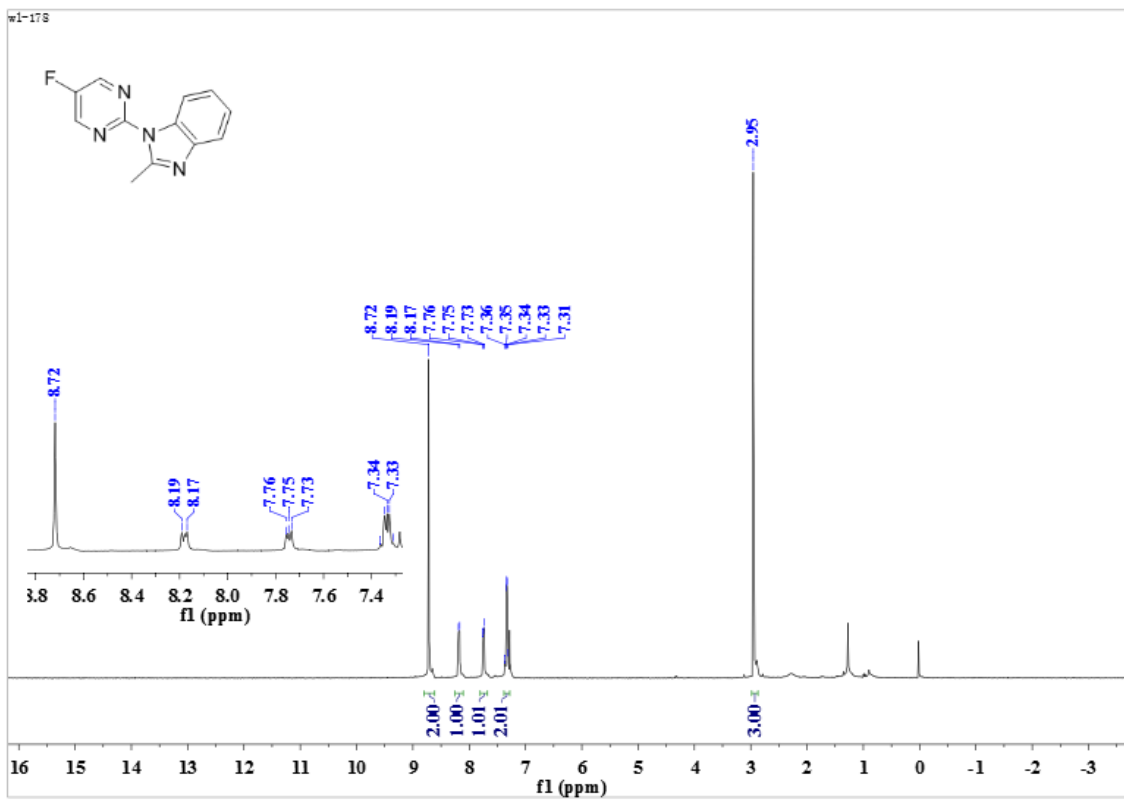


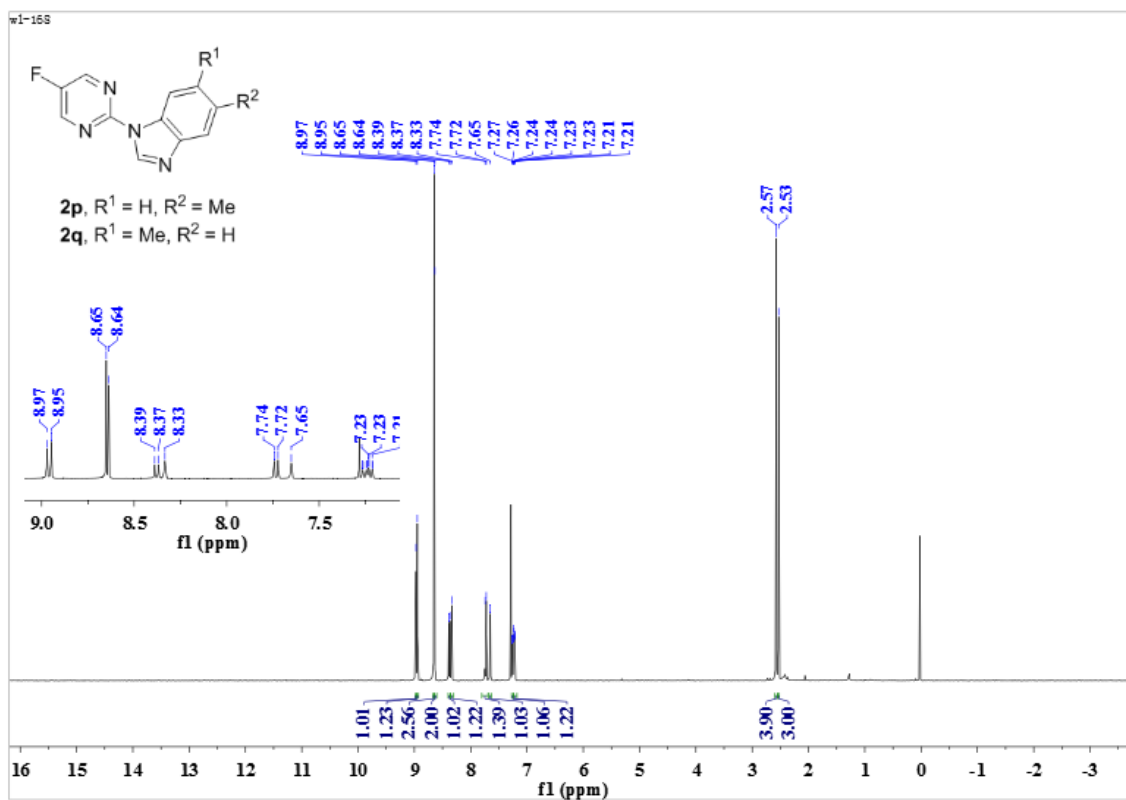
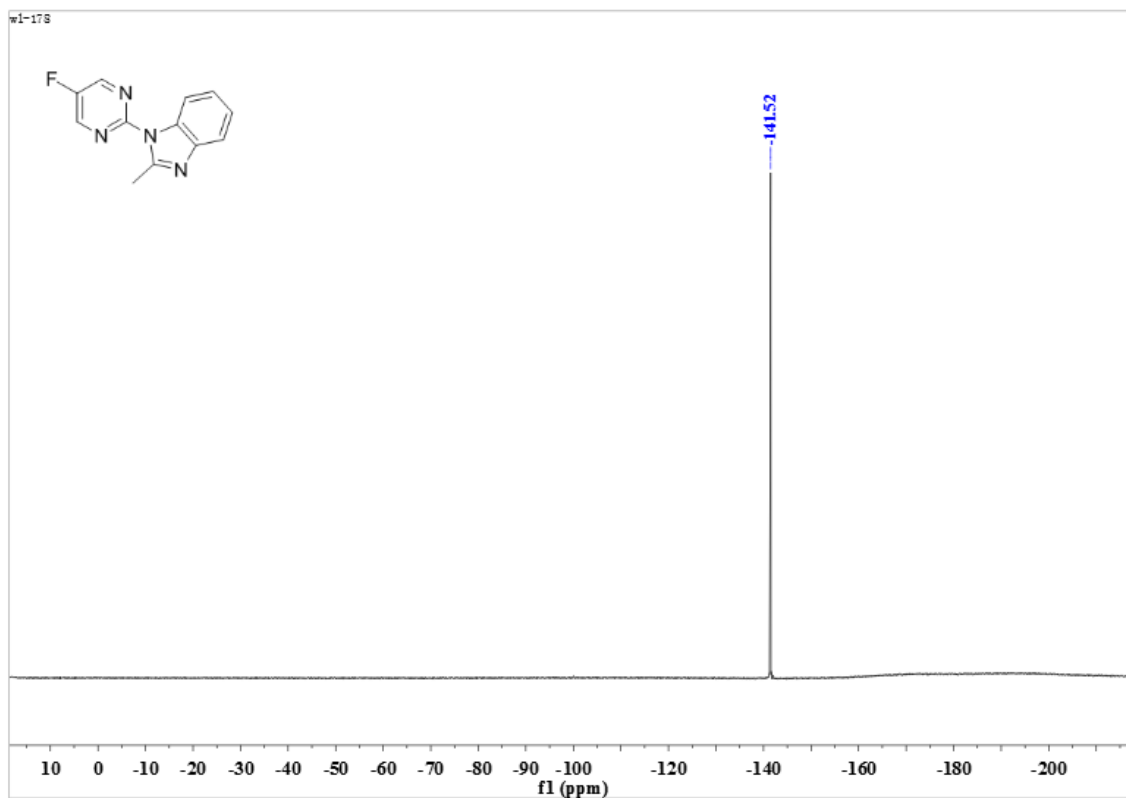


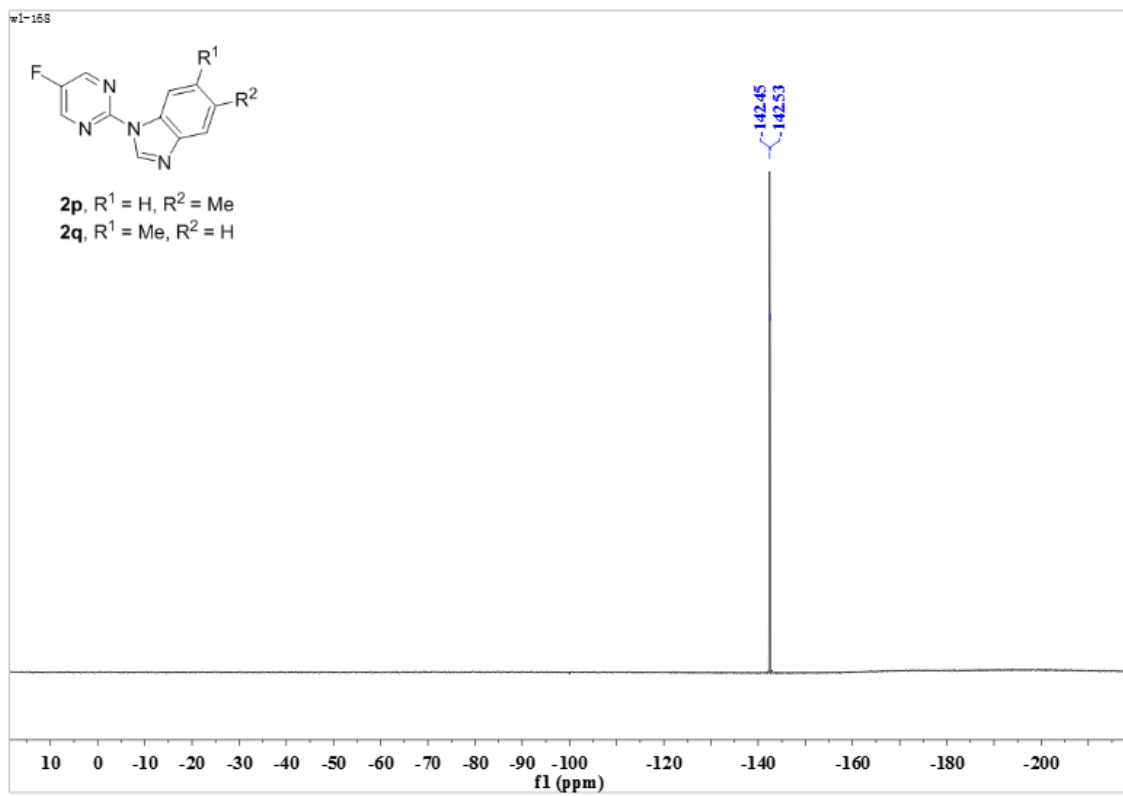
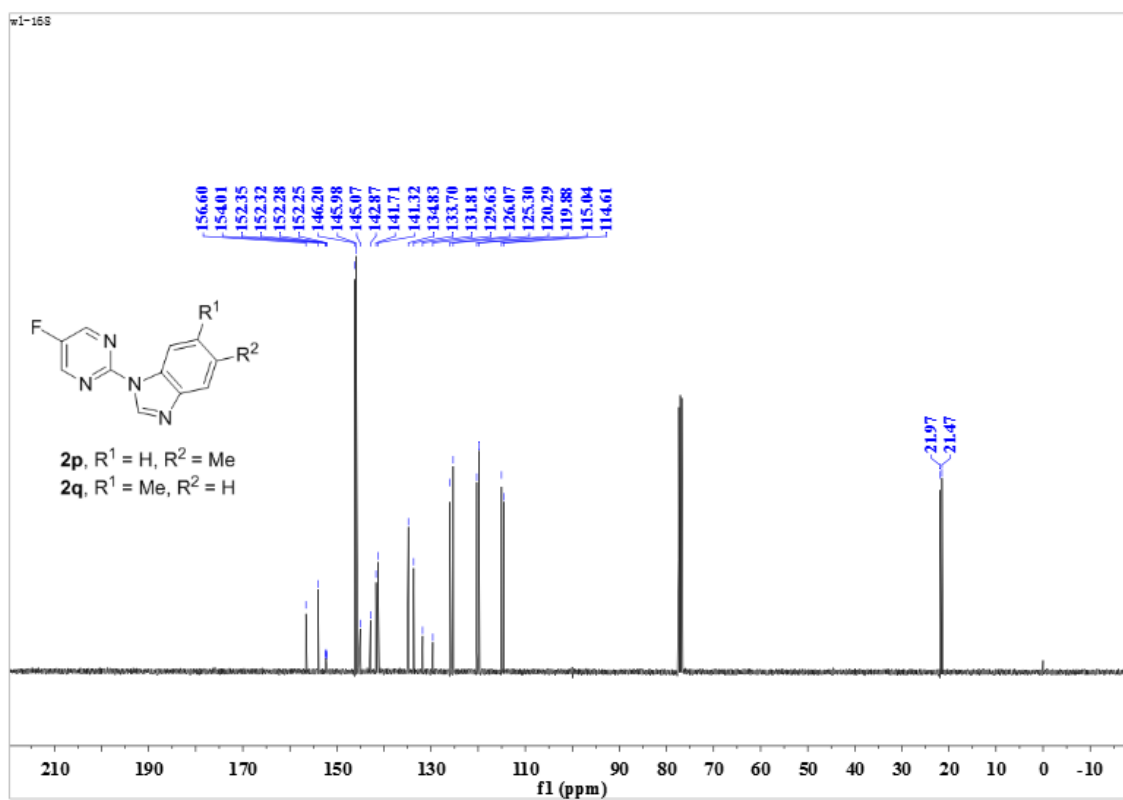


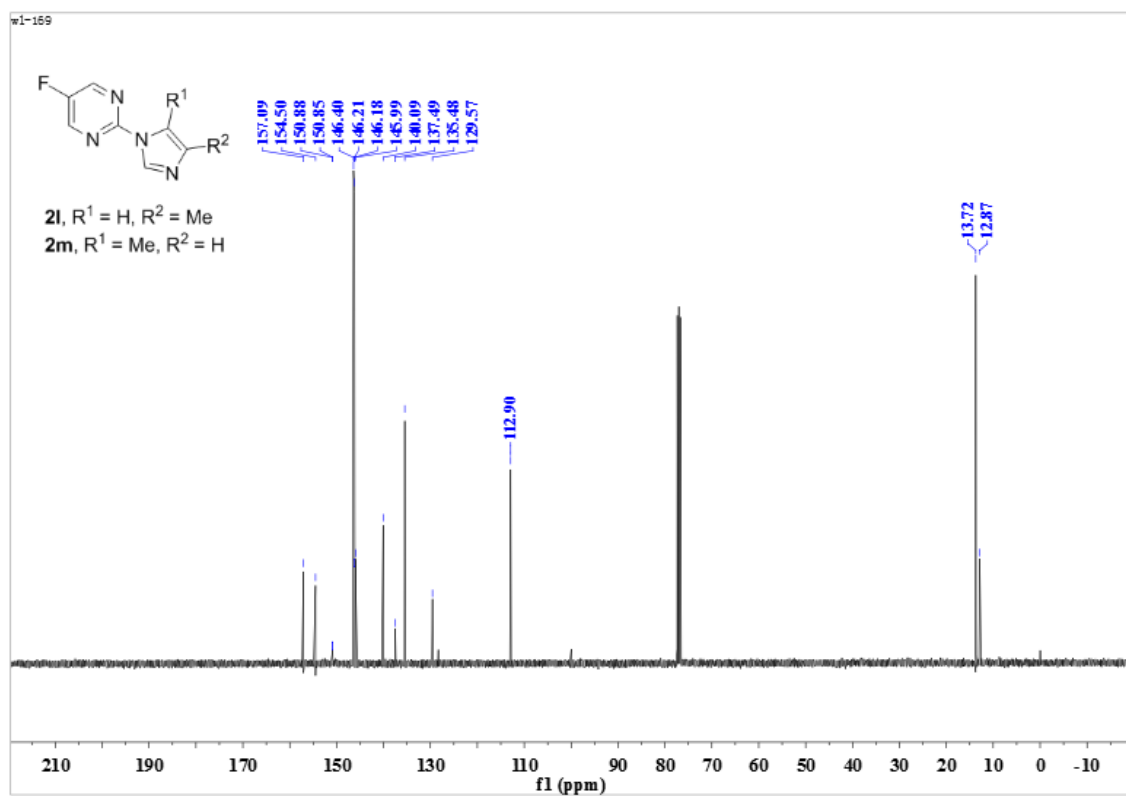
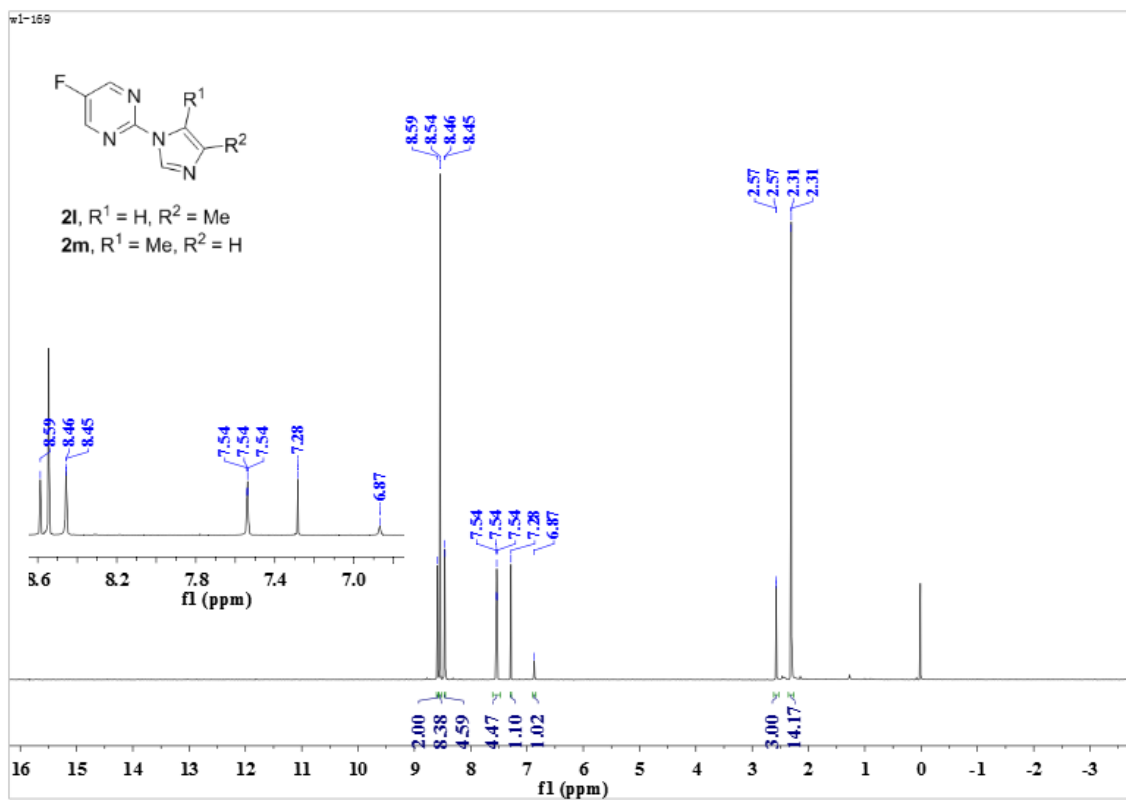


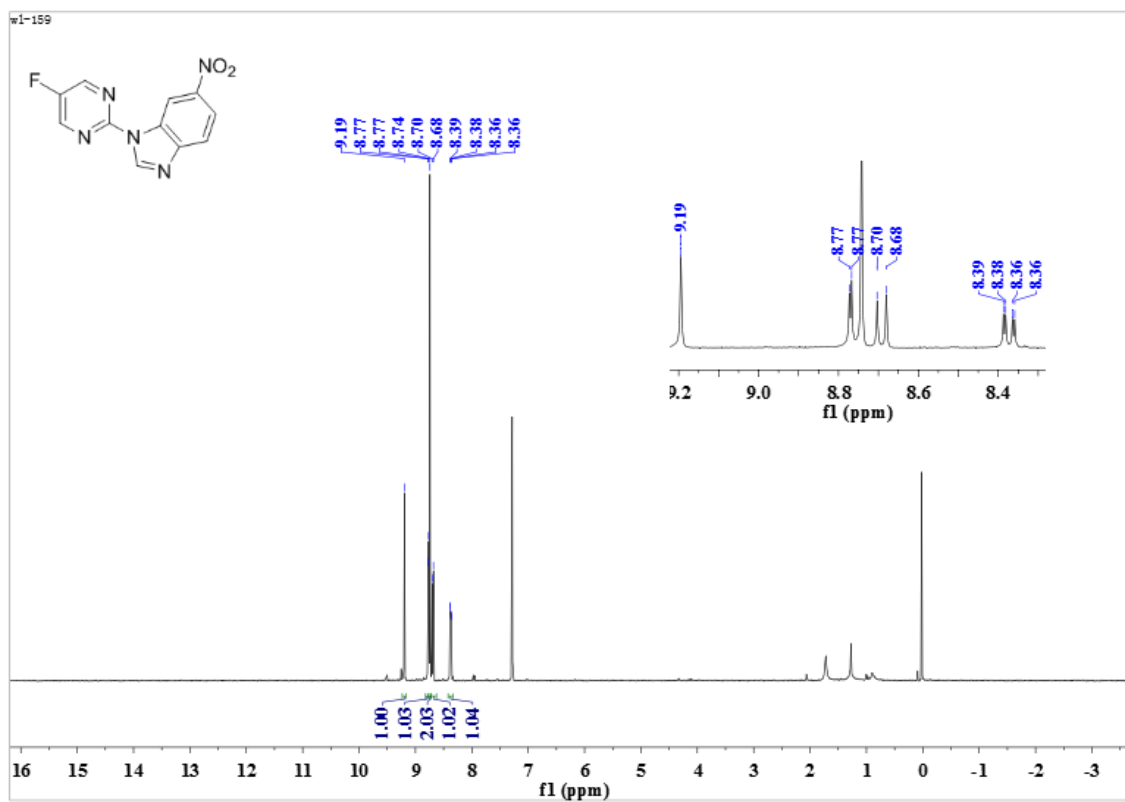
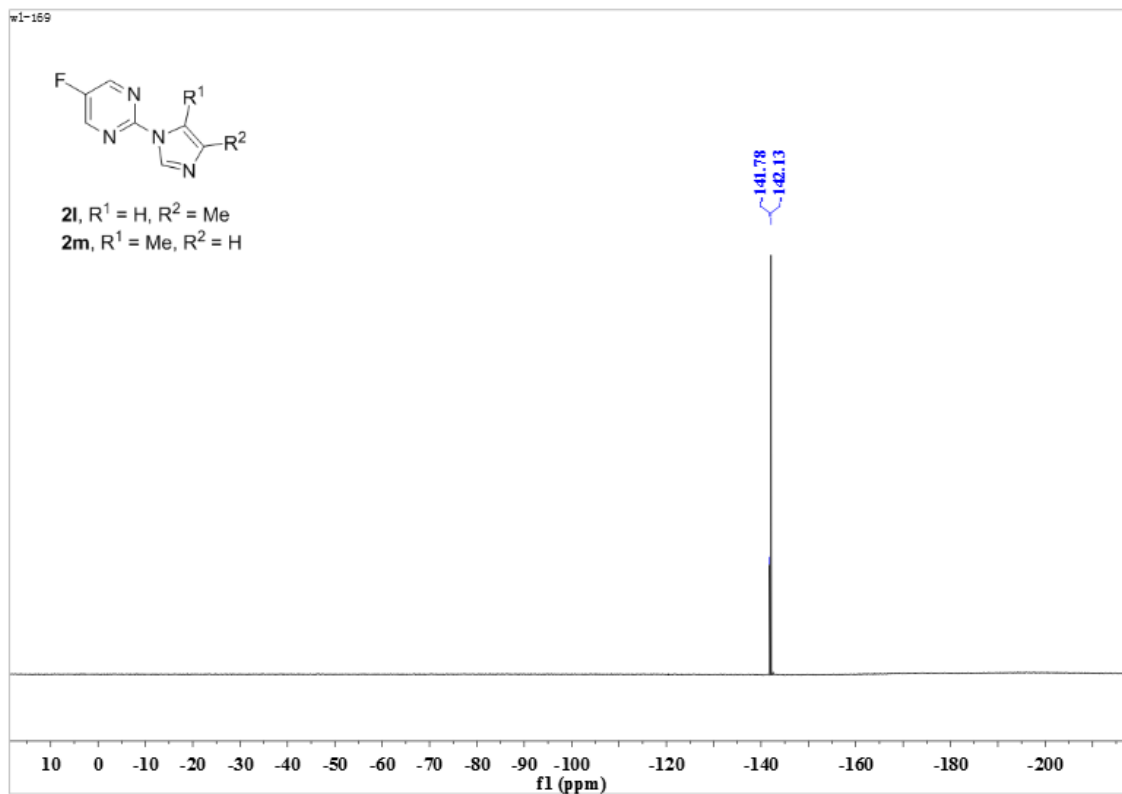


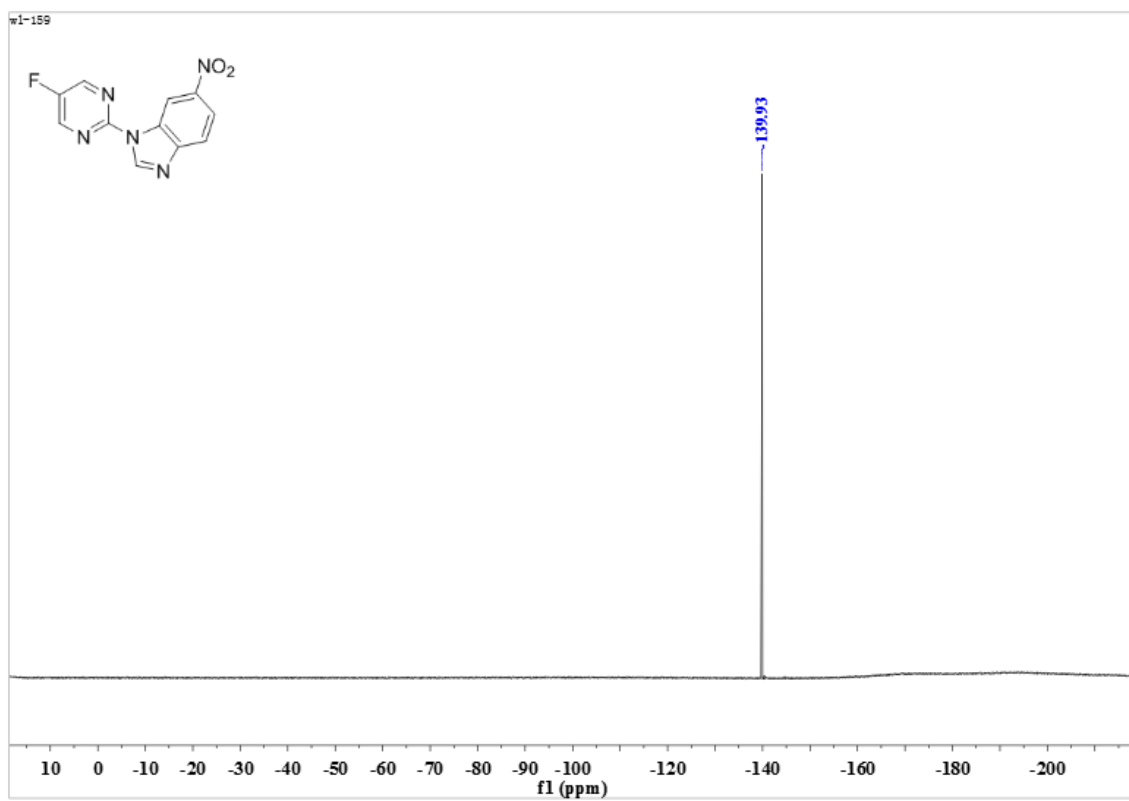
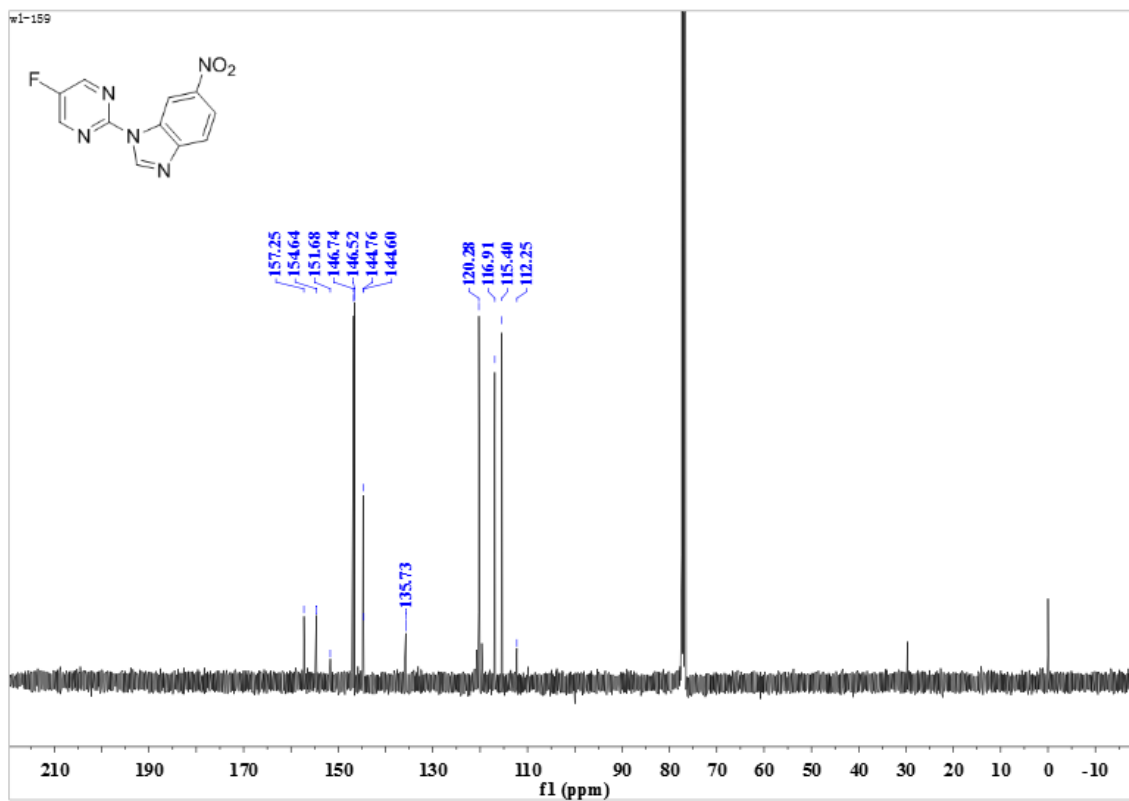


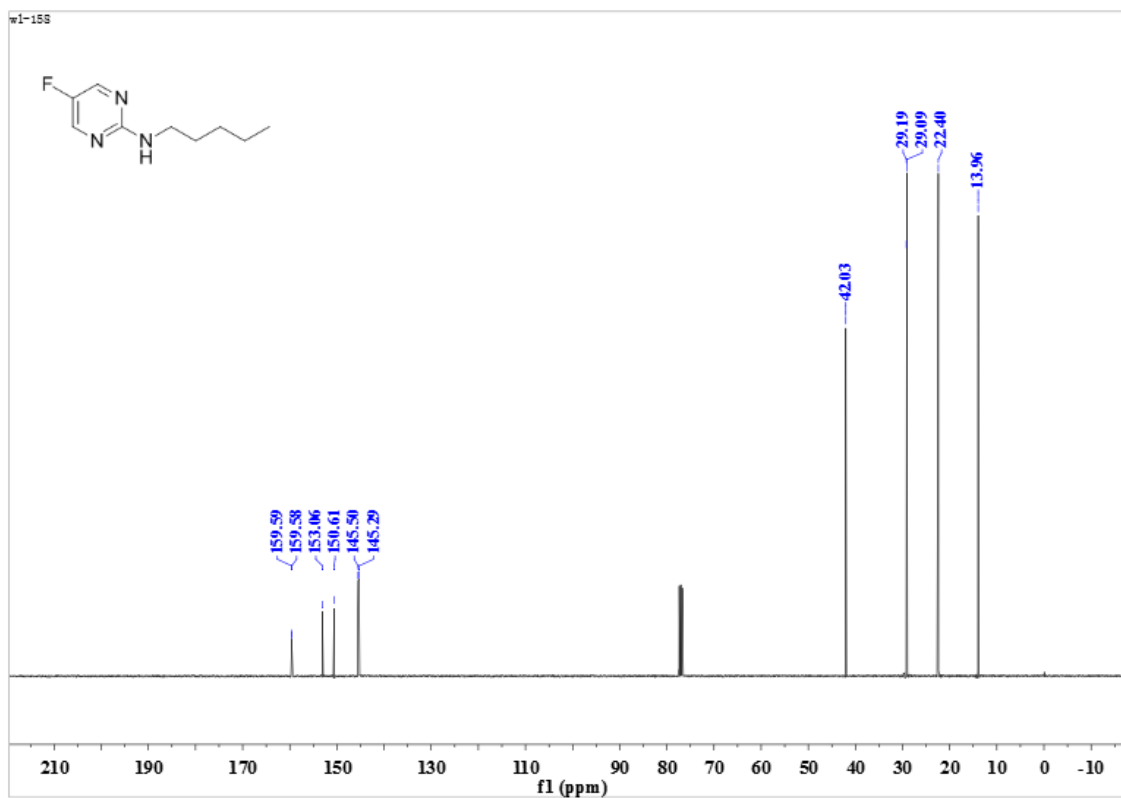
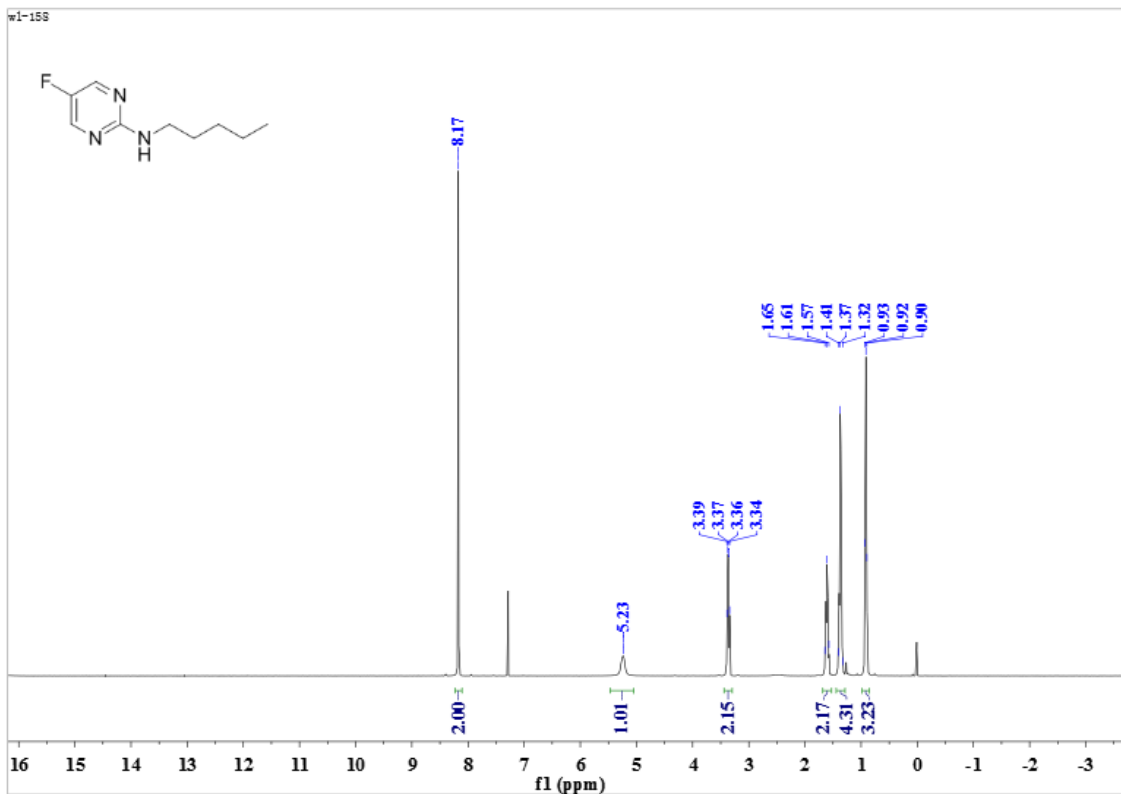


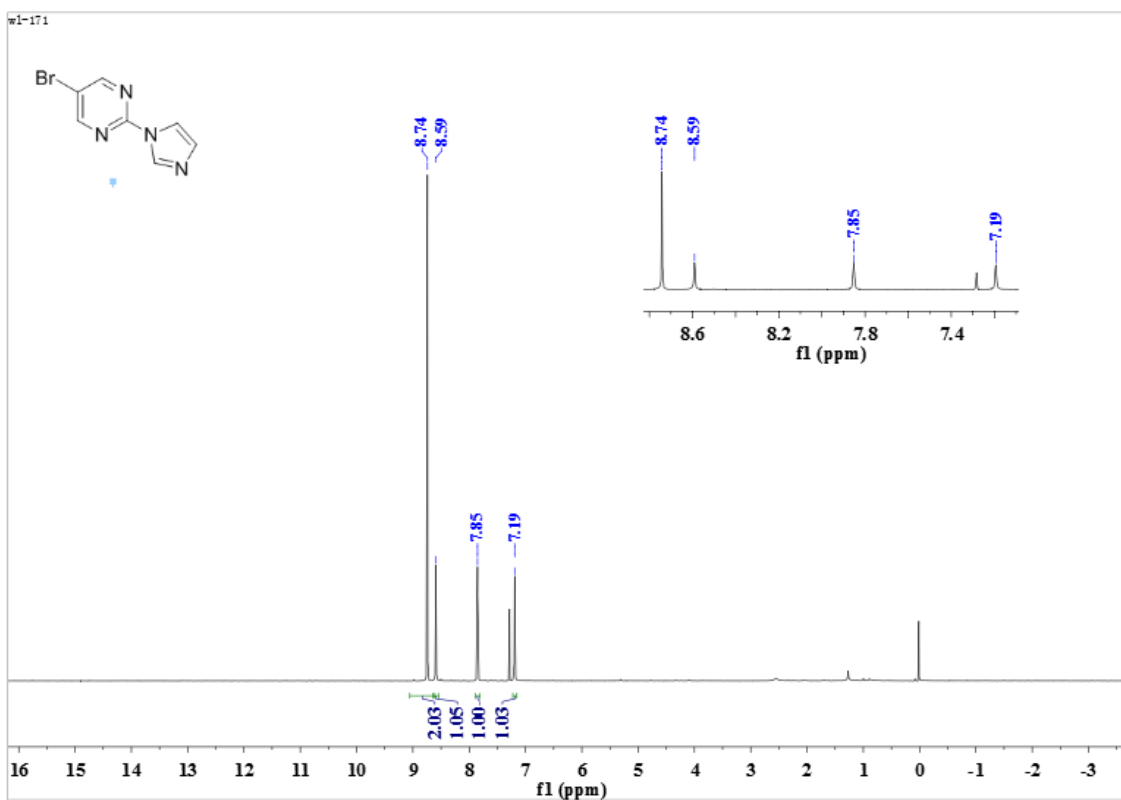
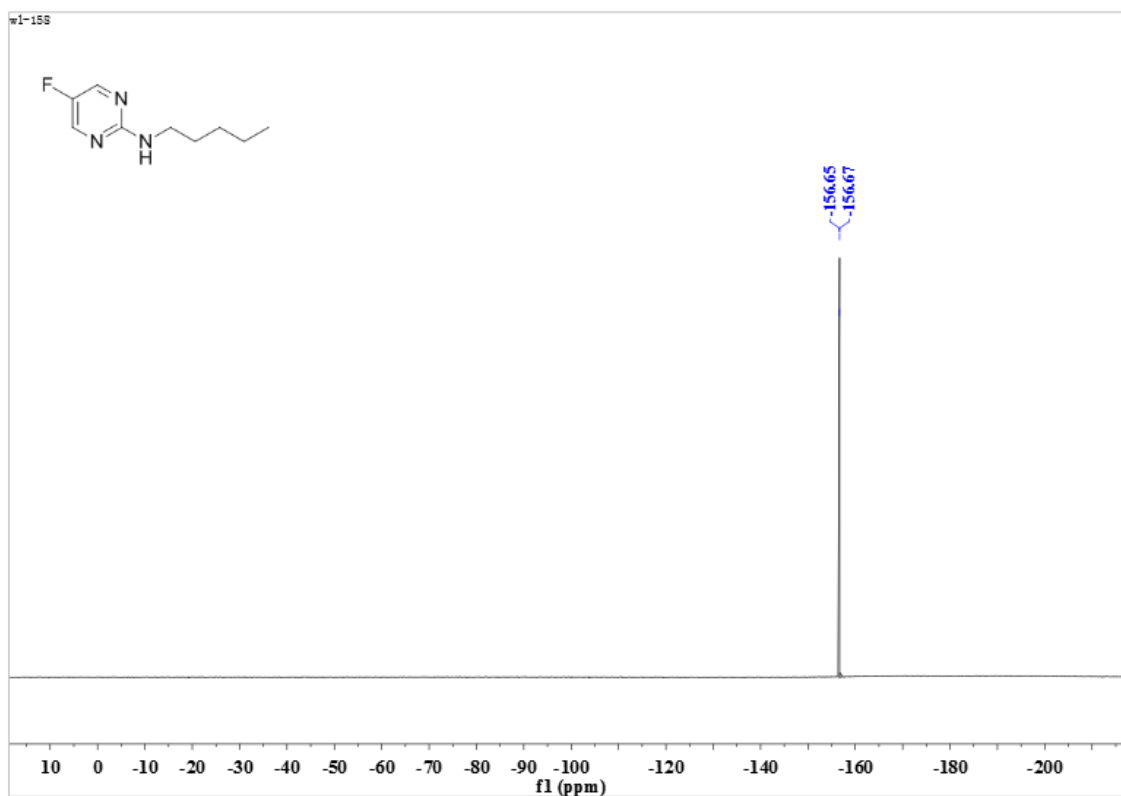


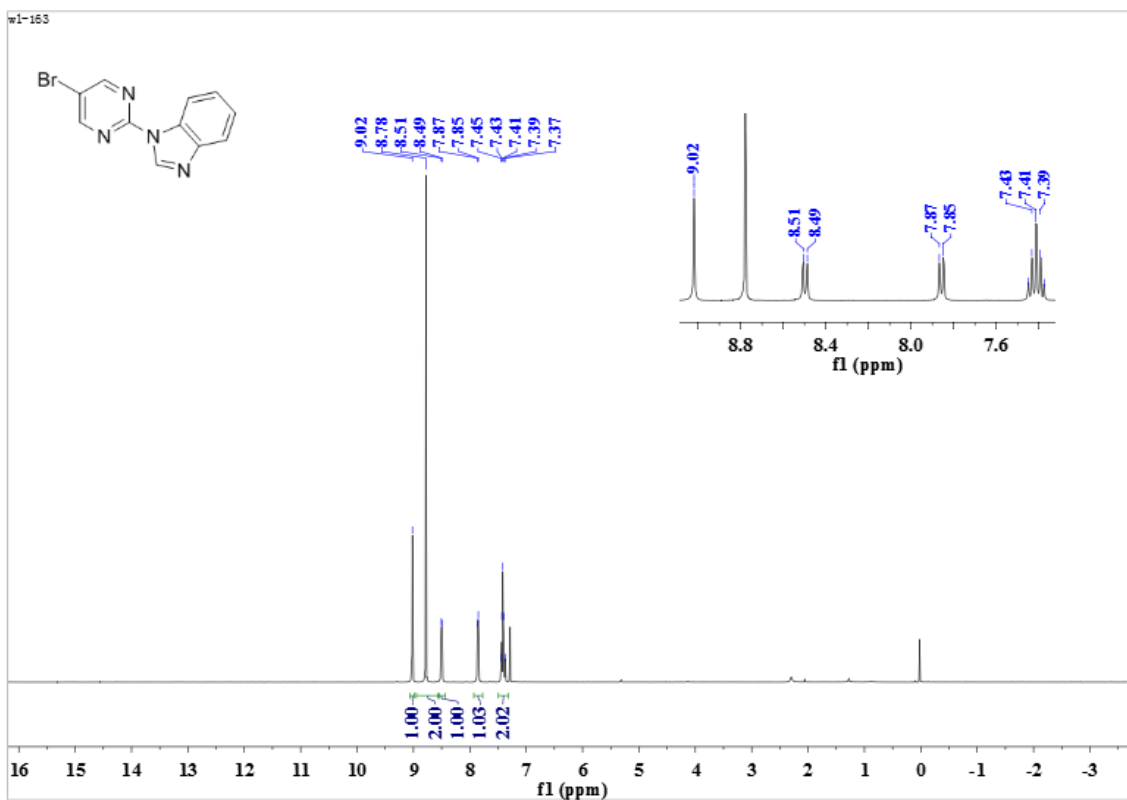
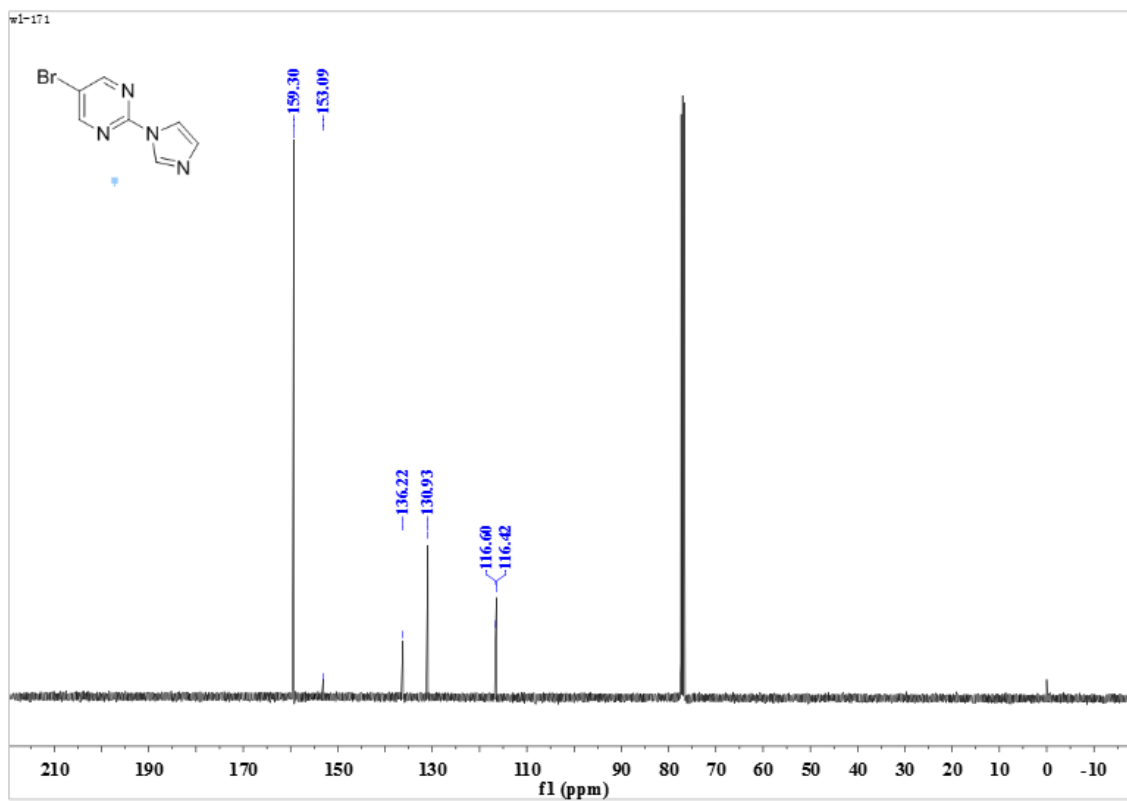


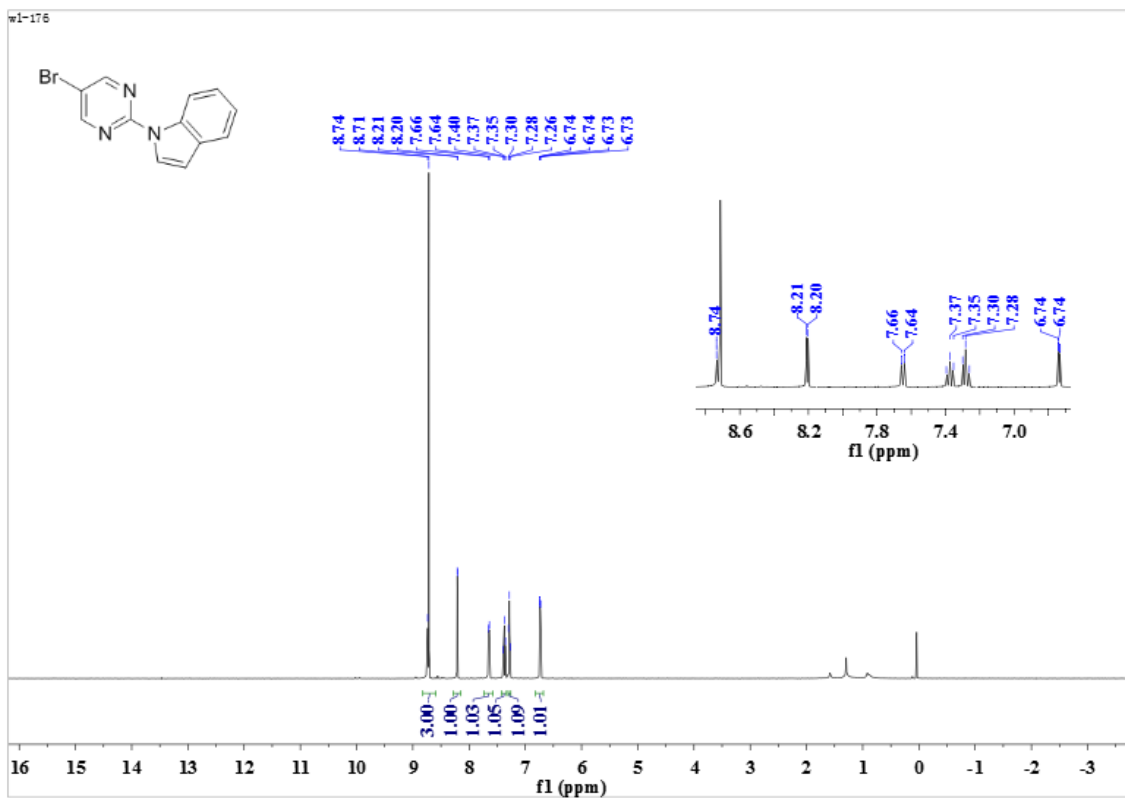
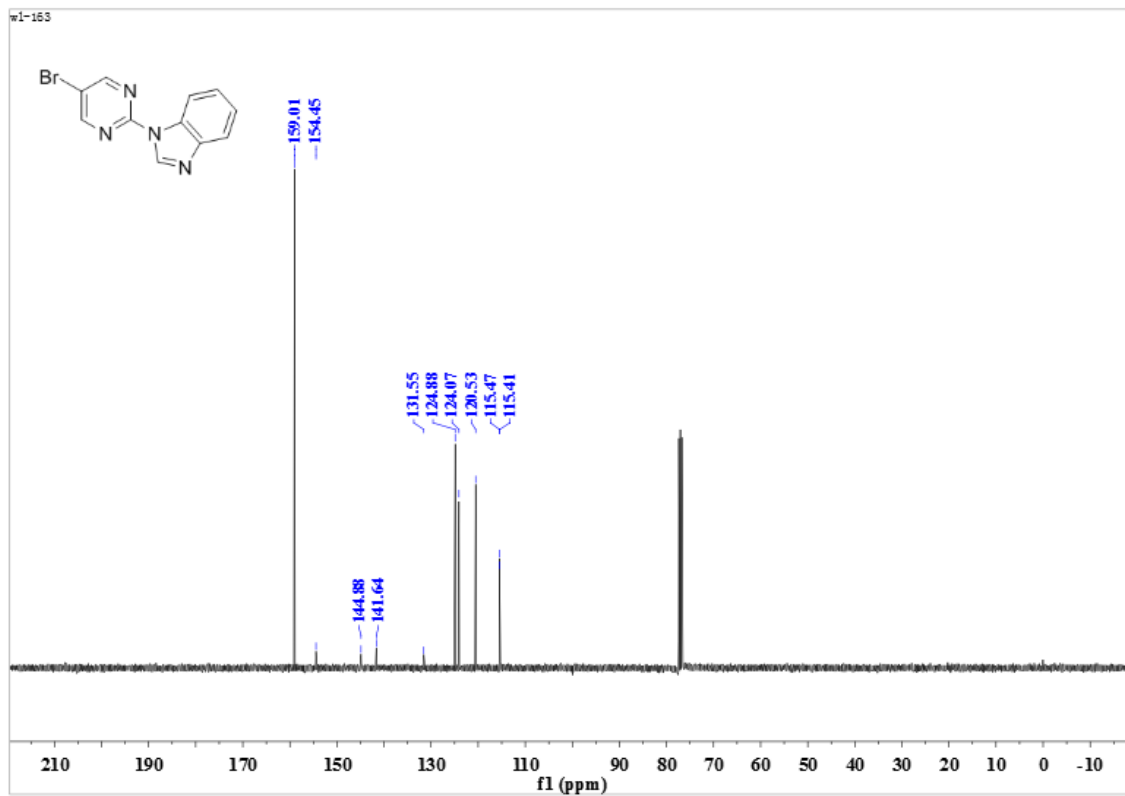


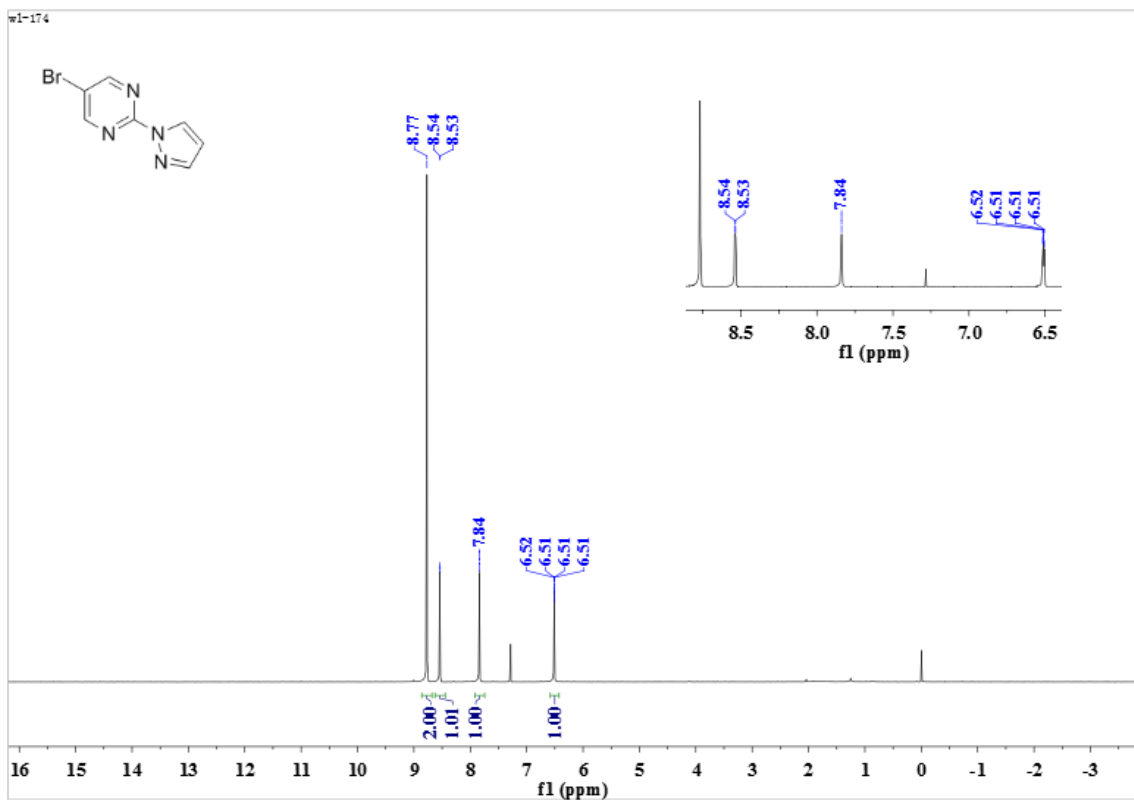
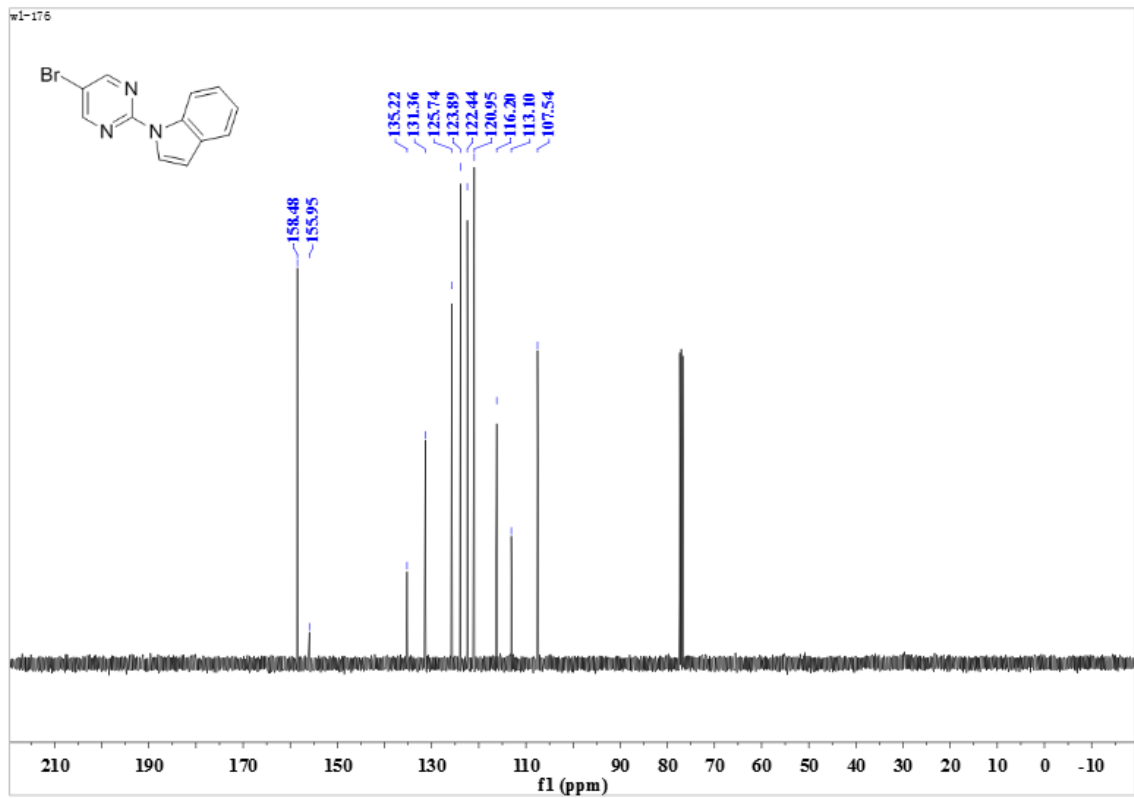


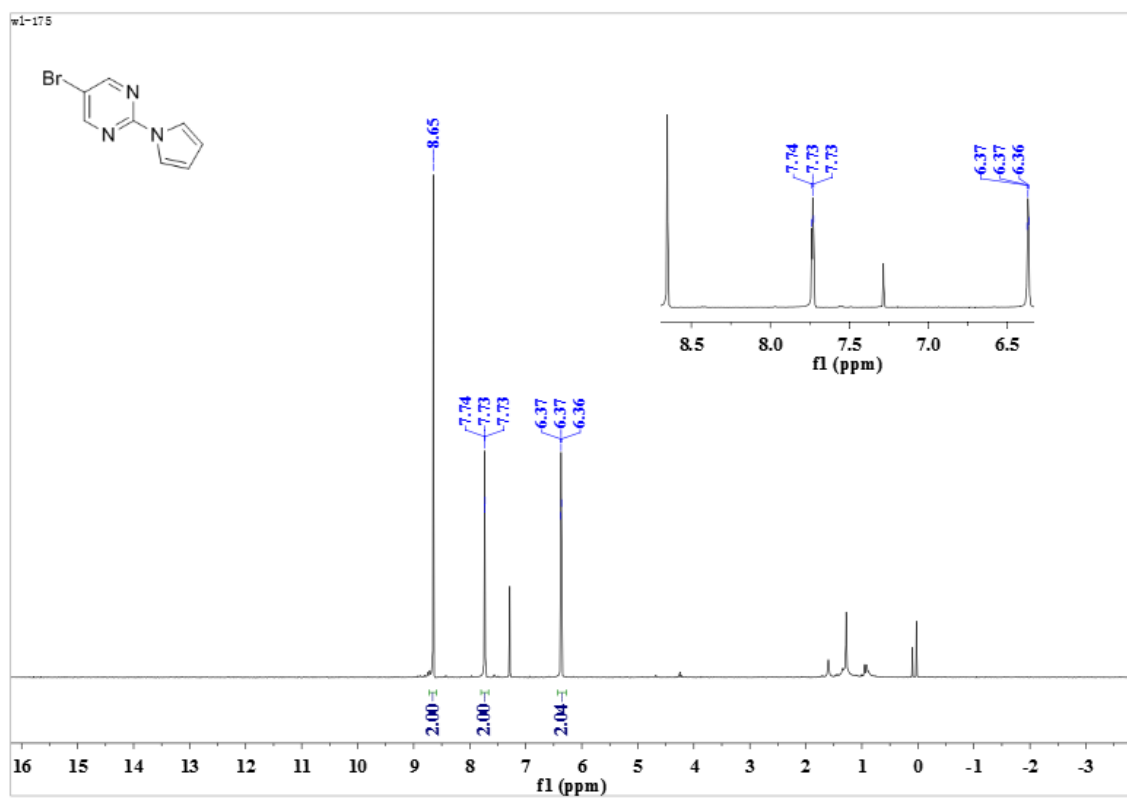
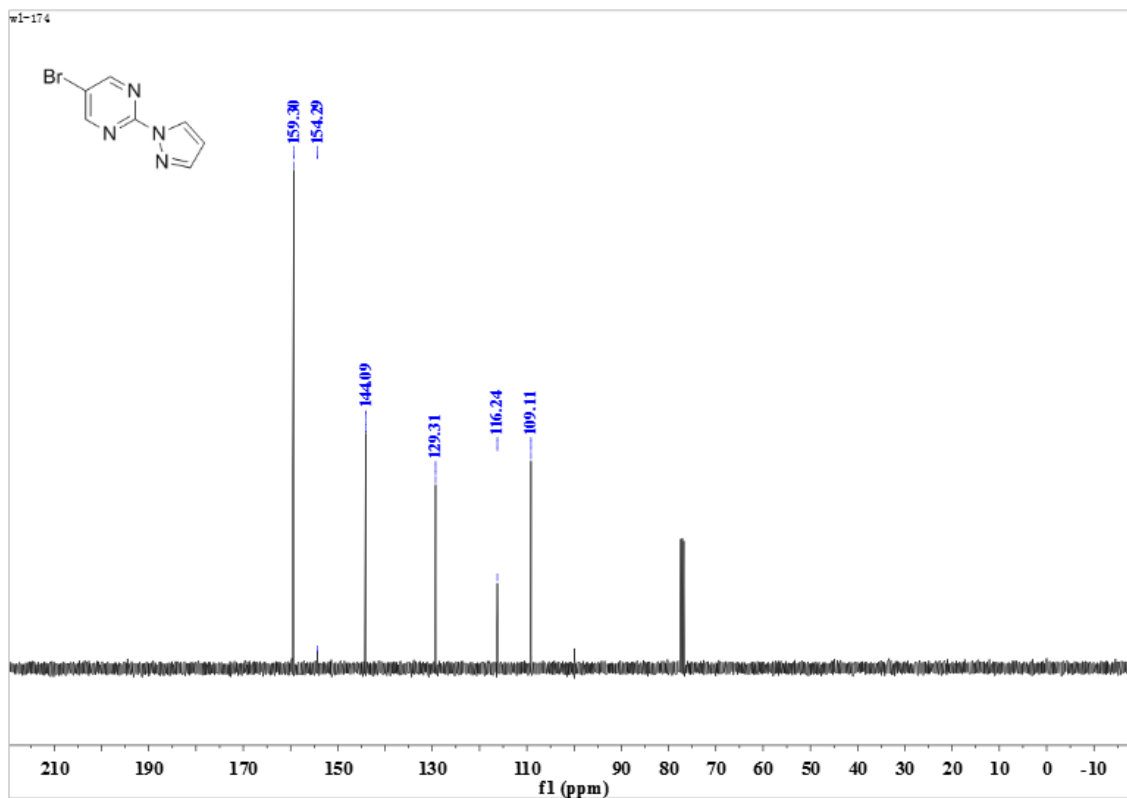


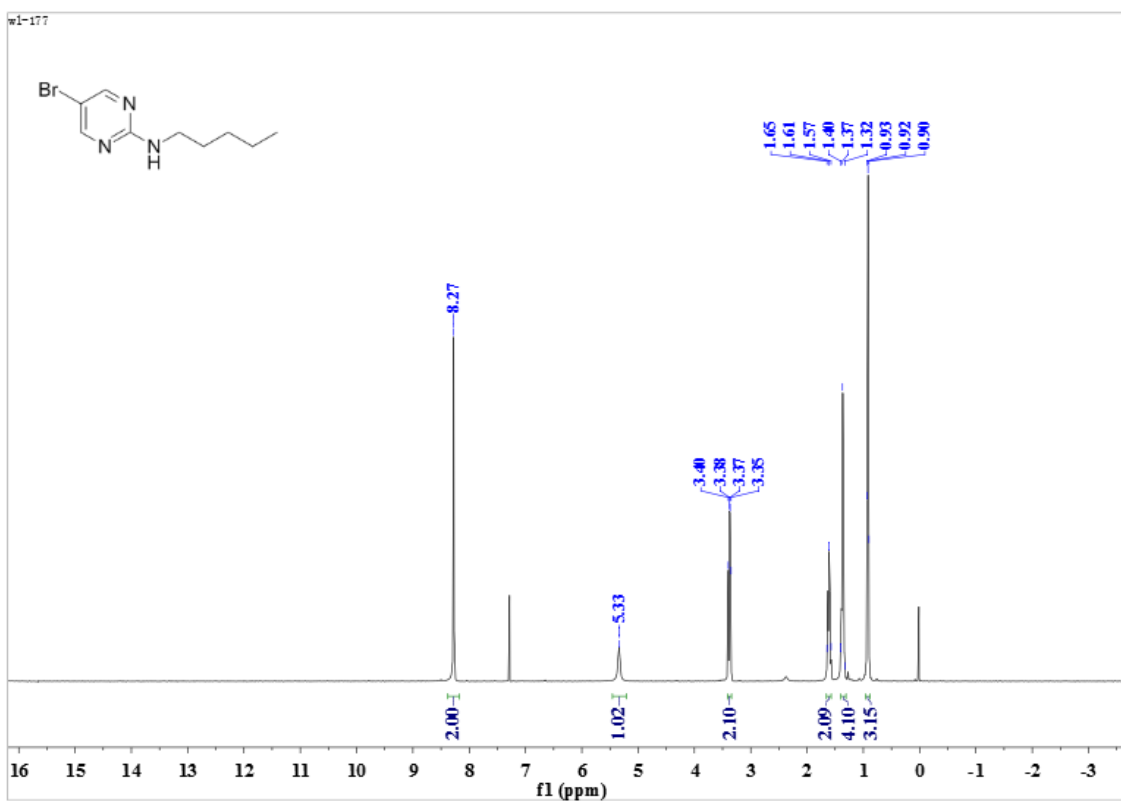
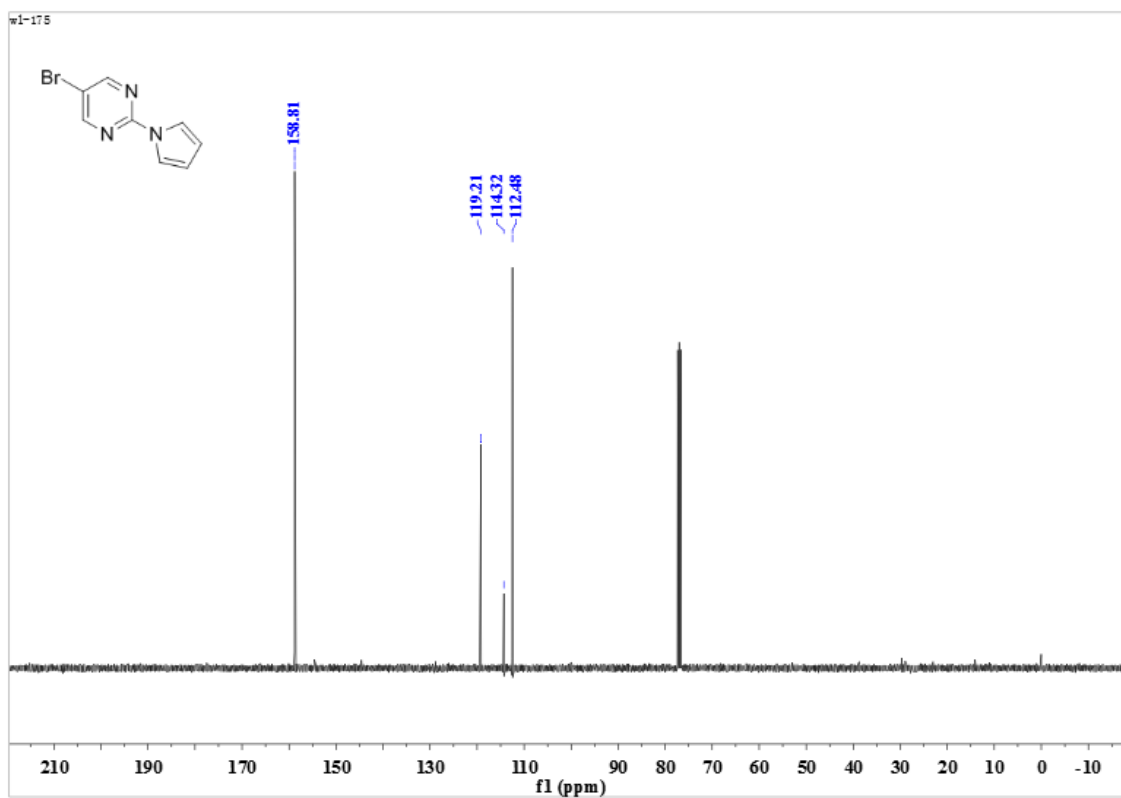


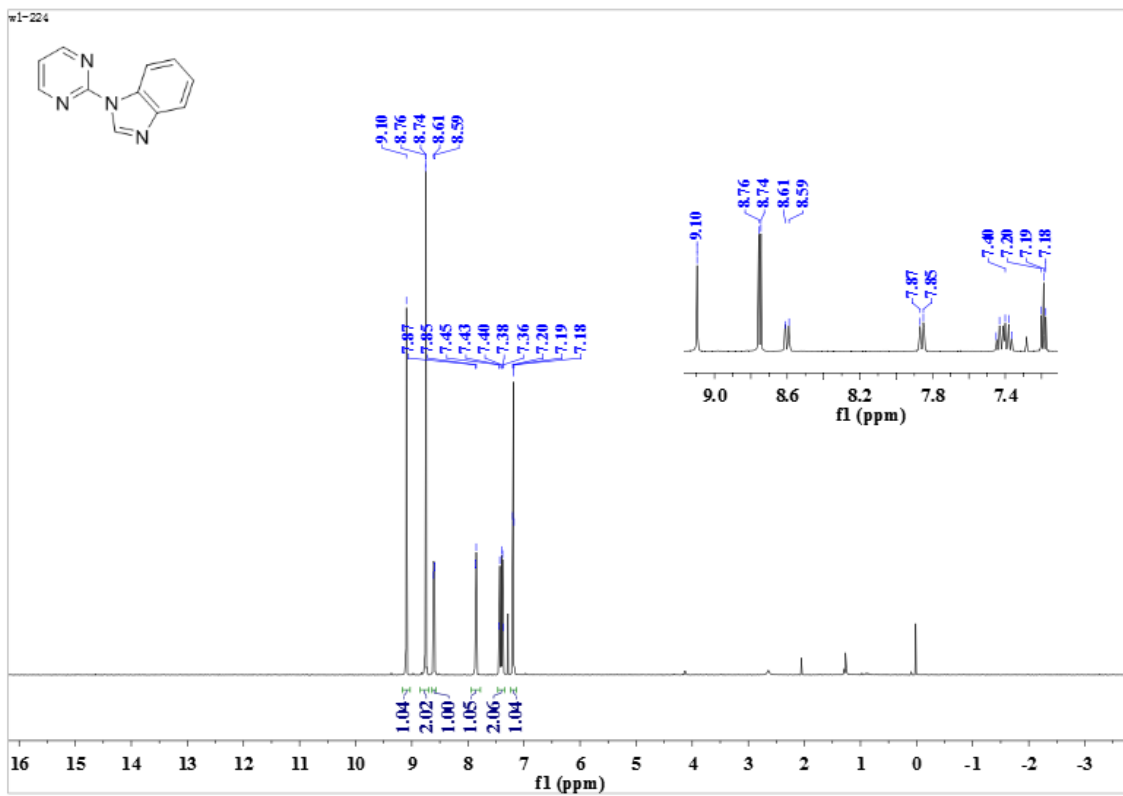
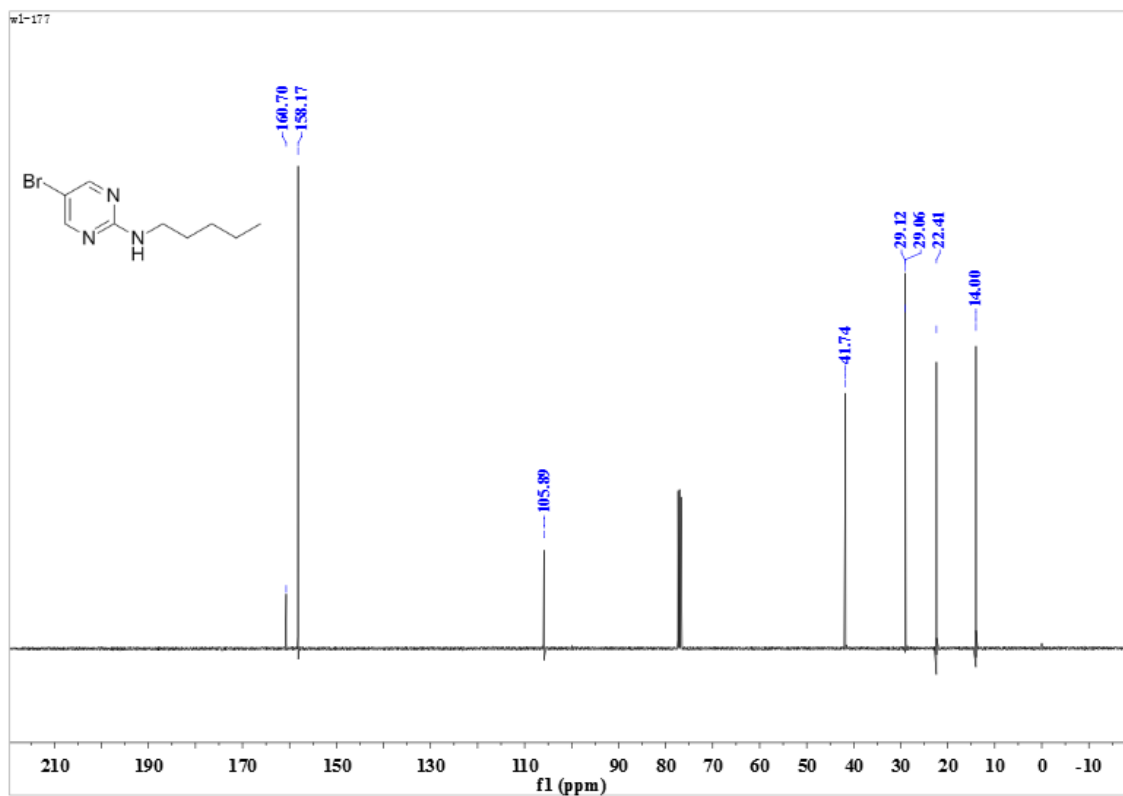




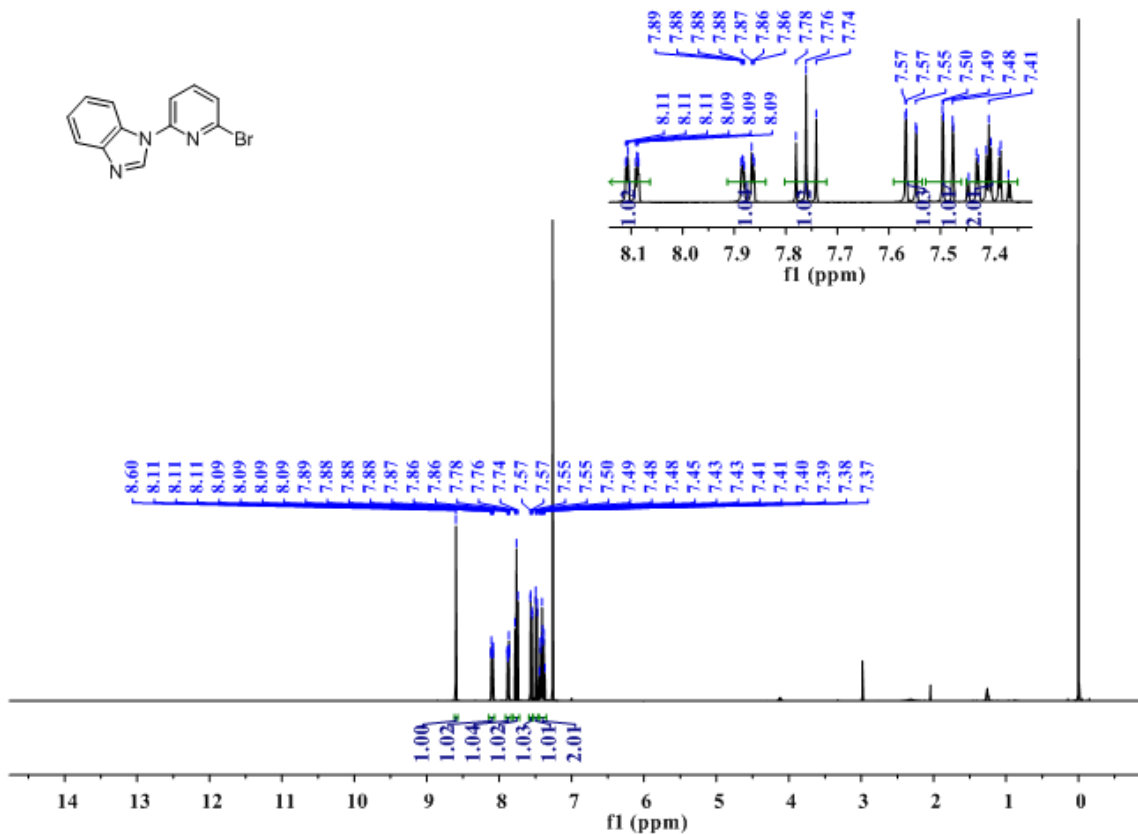




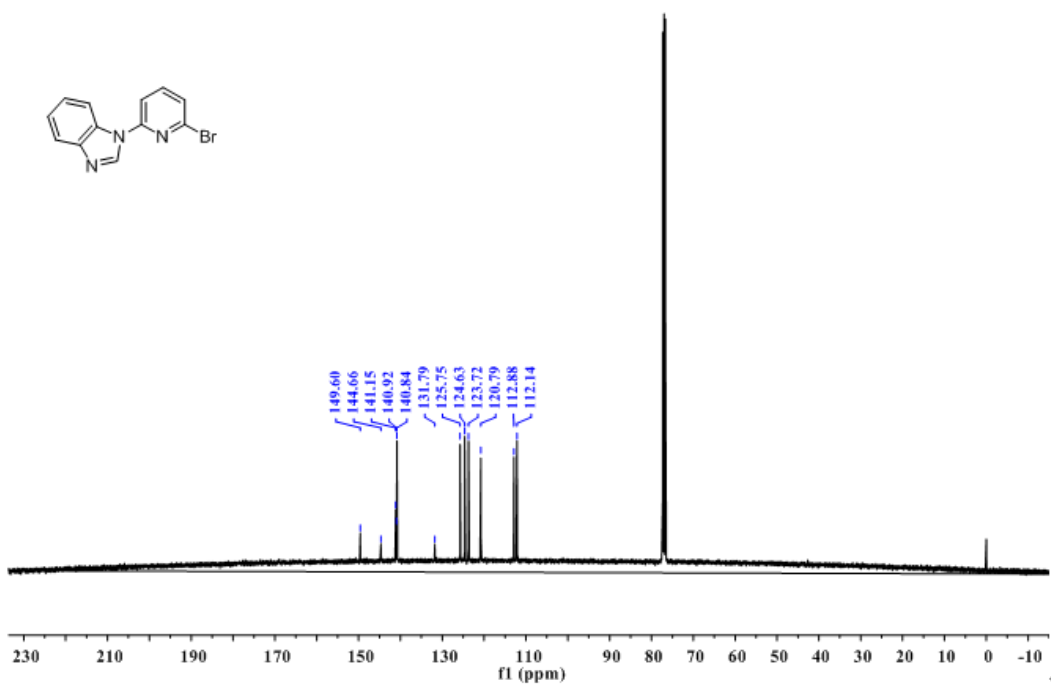




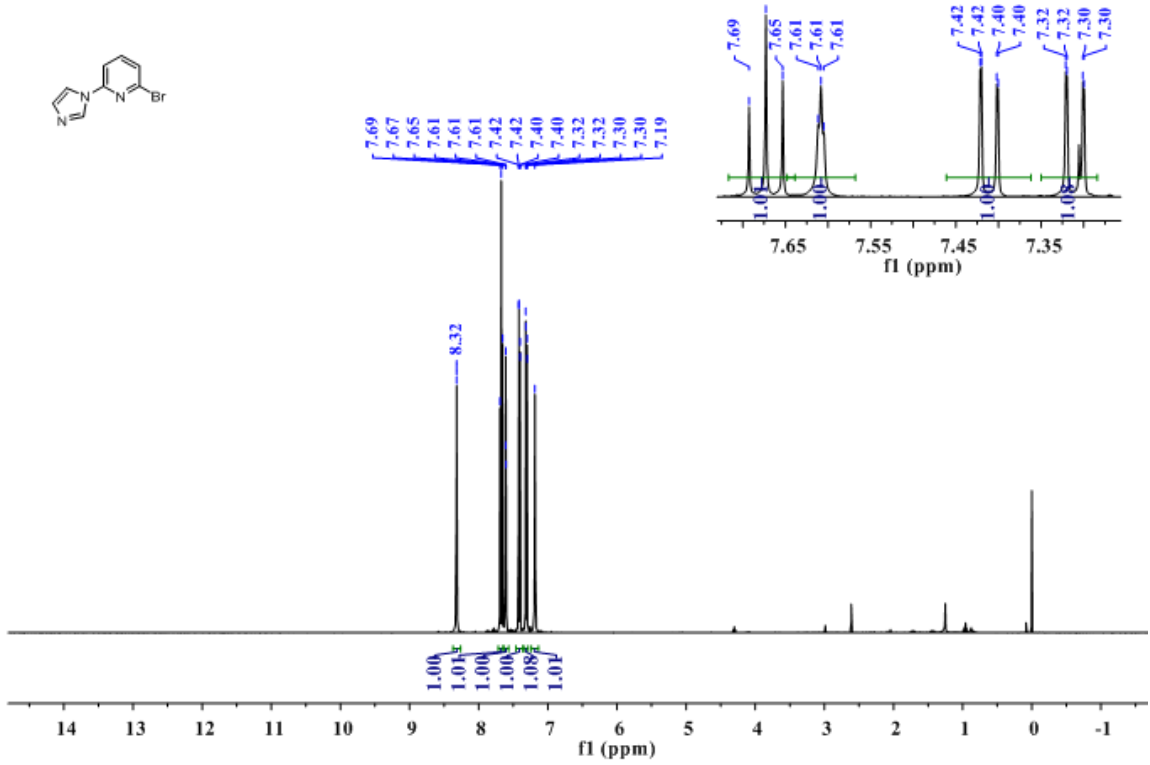
氢谱
 xinjiang daxue varian inova-400 IH-4N
 ljunin-LN-1-shihezhidaxue in CDCl3



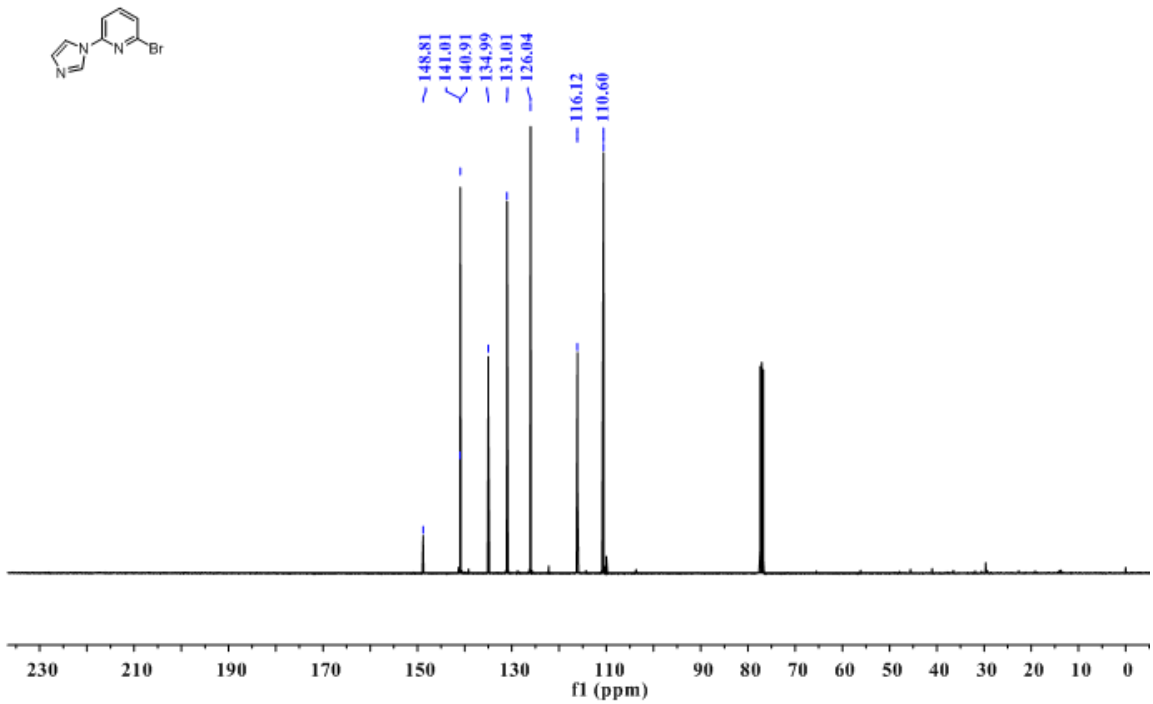
碳谱
 xinjiang daxue varian inova-400 13C-4N
 ljunin-LN-1-shihezhidaxue in CDCl3



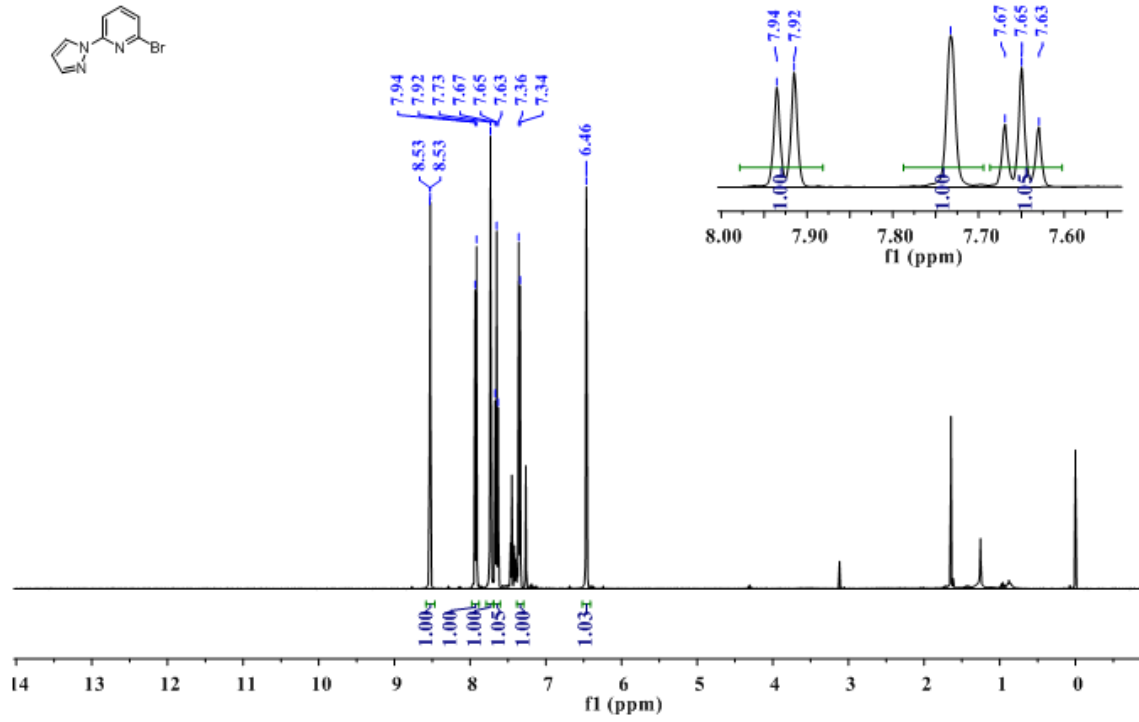
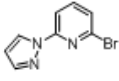
H1-4N-CDCl3-20130801-liuning-LX-2-shihezhidaxue
xinjiang daxue varian inova-400 1H-4N
liuning-2-shihezhidaxue
in CDCl3



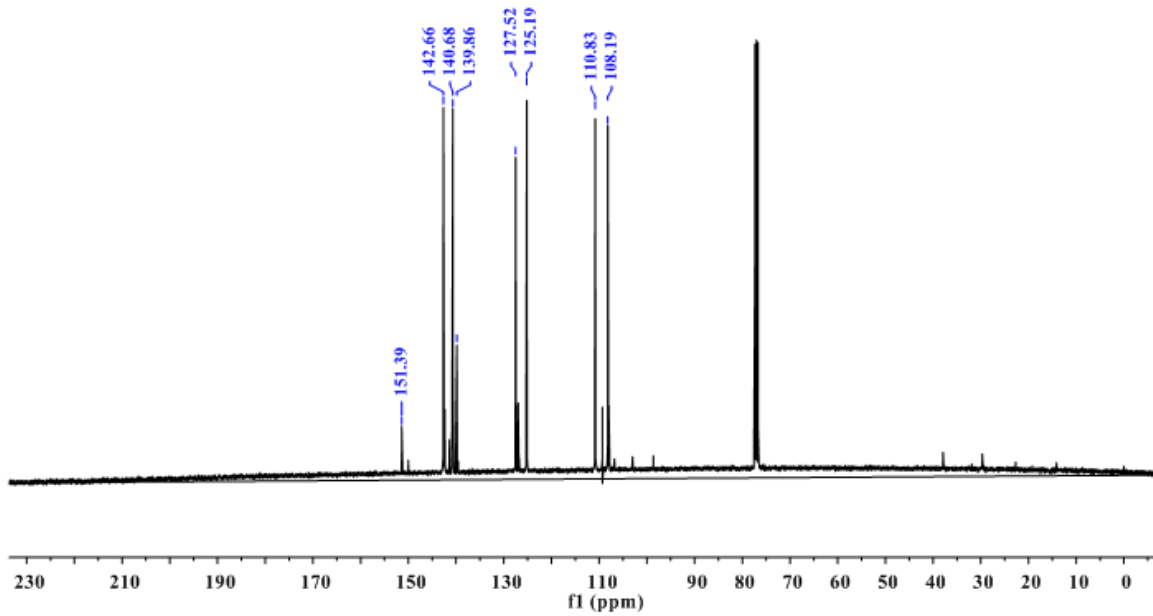
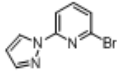
CARBON_01
XTIQC VARIAN MR-400
maxiaowei_LX_2_C13 CDCl3



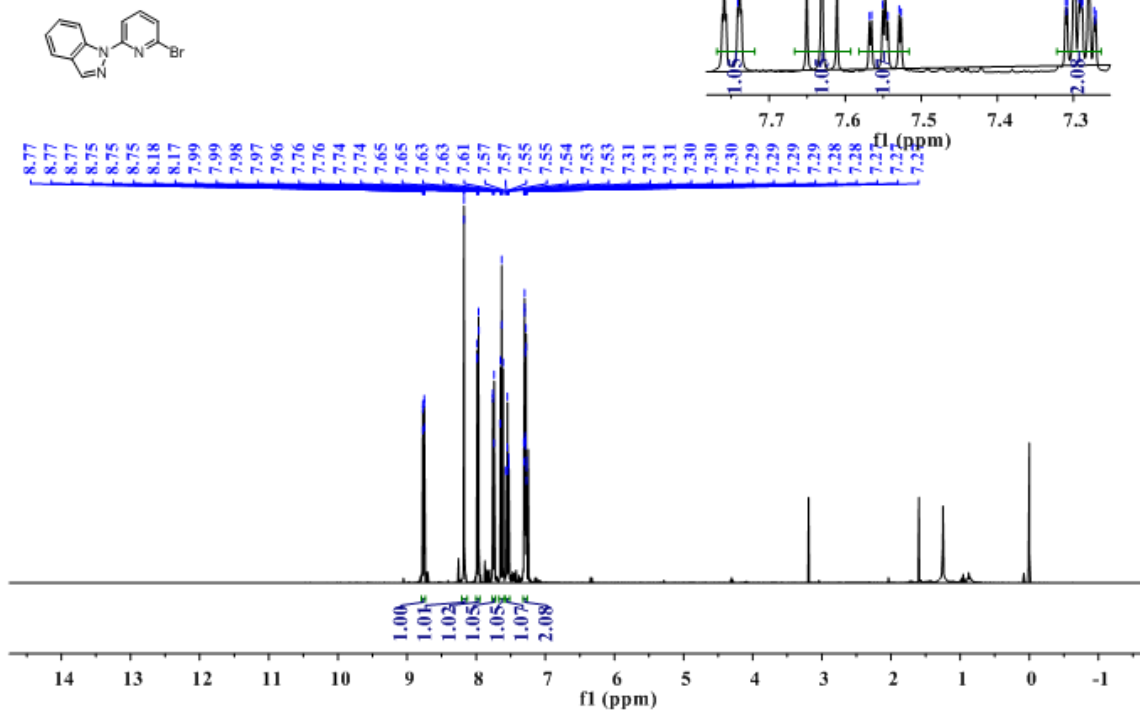
PROTON_01
XTPC VARIAN NMR-400
maxiaowei_LN_15_H1 CDCl3



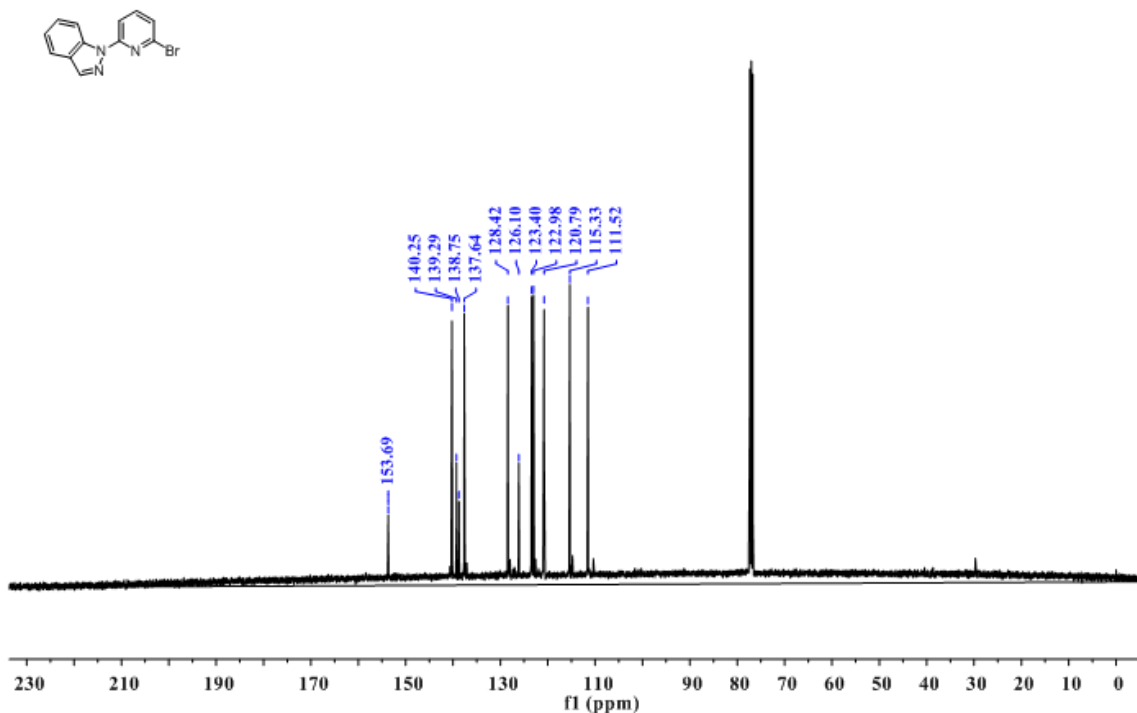
C13-4S-CDCl3-20131231-liuning-LN-15-shibexidaxue
xinjiang daxue varian inova-400 13C-4N
liuning-LN-15-shibexidaxue in CDCl3

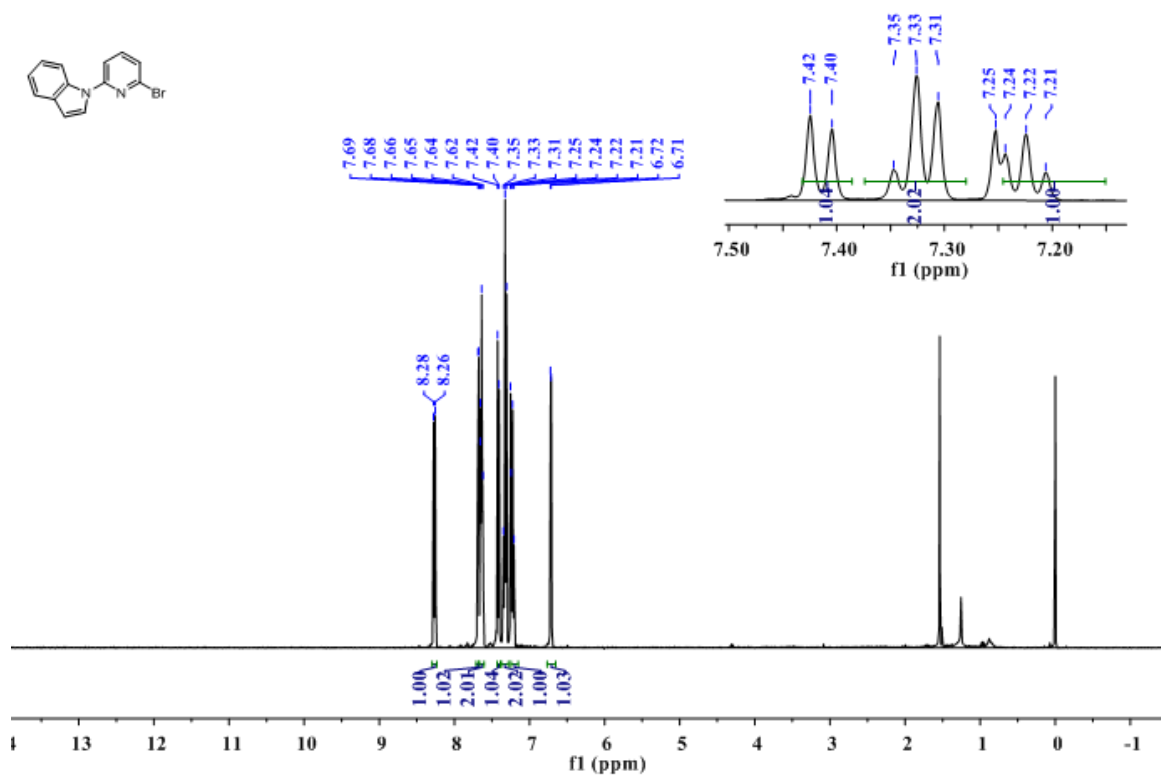
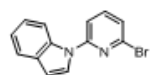


H1-4N-CDCl3-20131231-liuning-LN-11-shihexidaxue
xinjiang daxue varian inova-400 IH-4N
liuning-LN-11-shihexidaxue in CDCl3

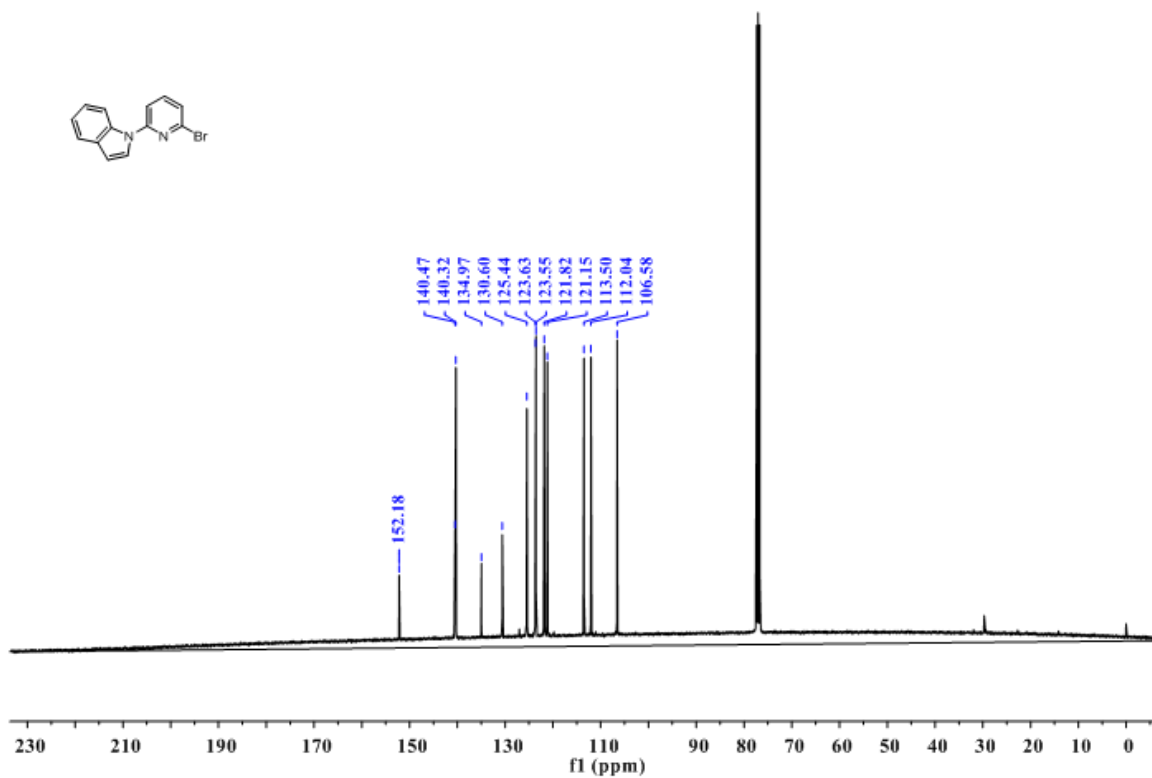
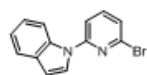


C13-4N-CDCl3-20131231-liuning-LN-11-shihexidaxue
xinjiang daxue varian inova-400 13C-4N
liuning-LN-11-shihexidaxue in CDCl3

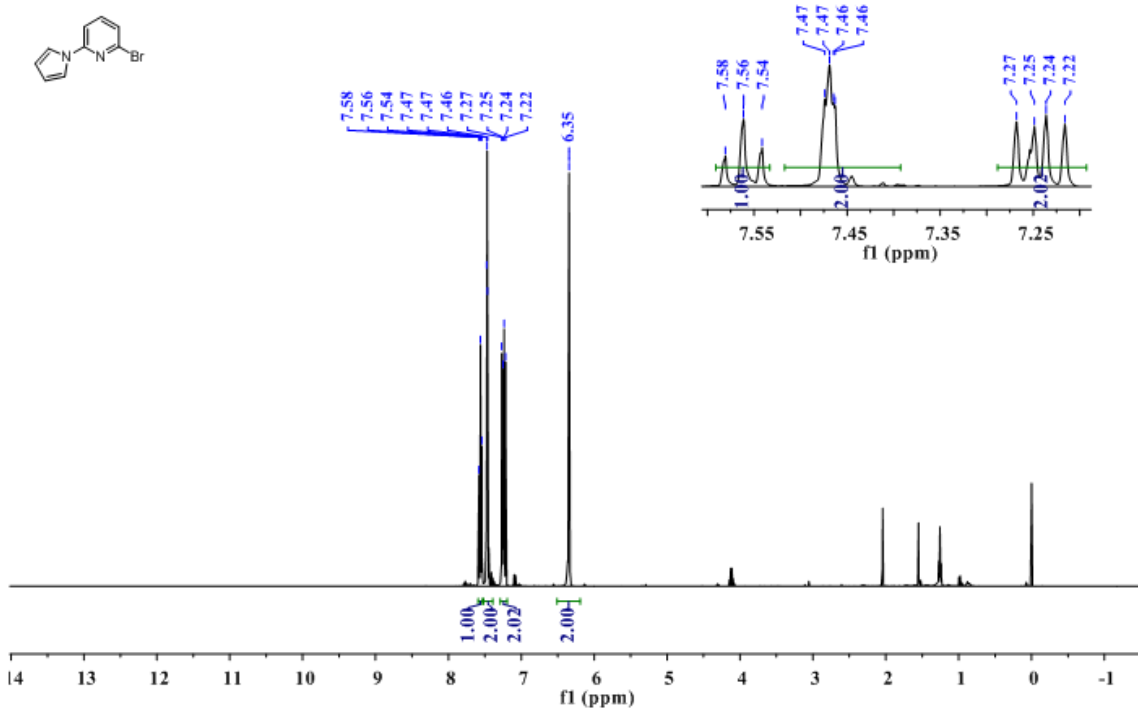




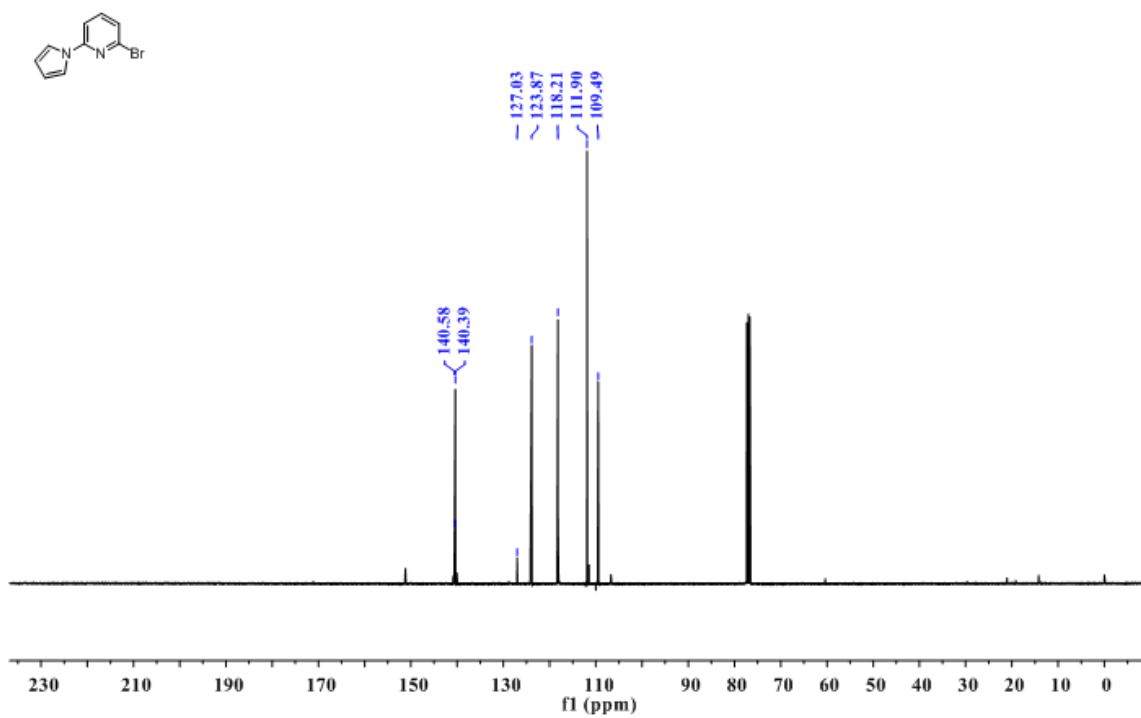
C13-4N-CDC13-20140101-13uning-LN-18-shihezidaxue
 xinjiang daxue varian inova-400 13C-4N
 13uning-LN-18-shihezidaxue in CDC13



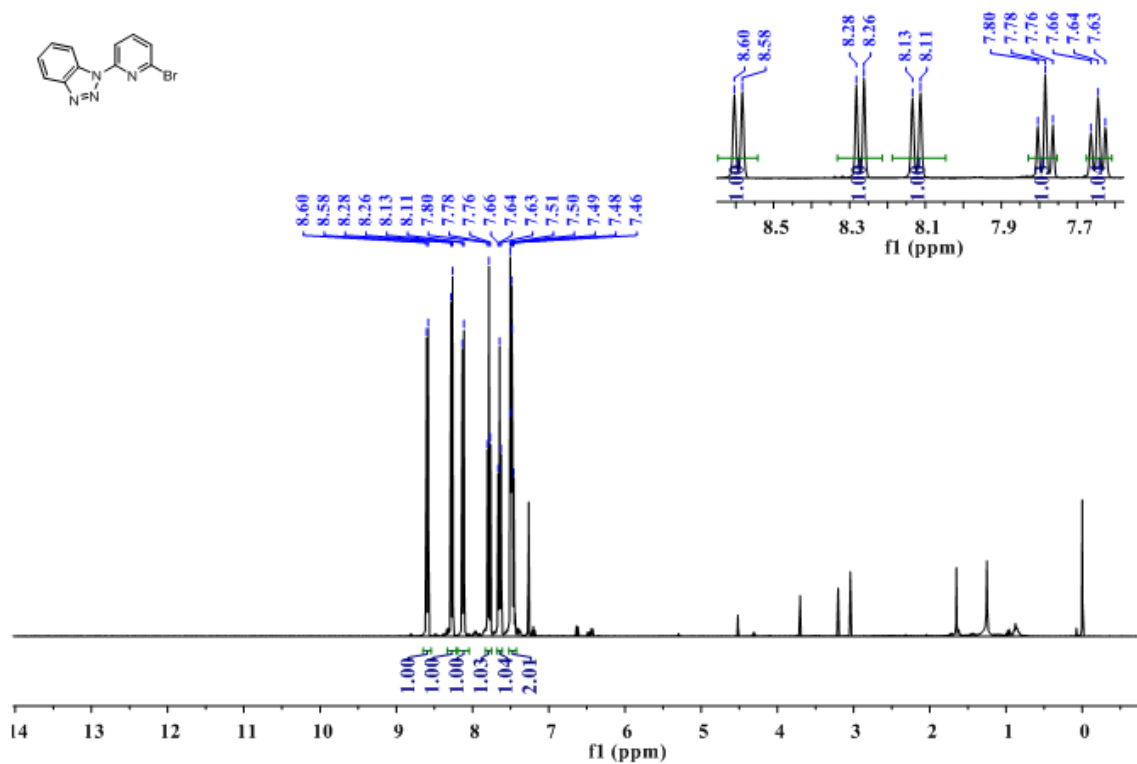
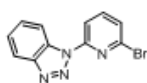
PROTON_01
XTPFC VARIAN MR-400
maxiaowei_LX_41 CDCL3



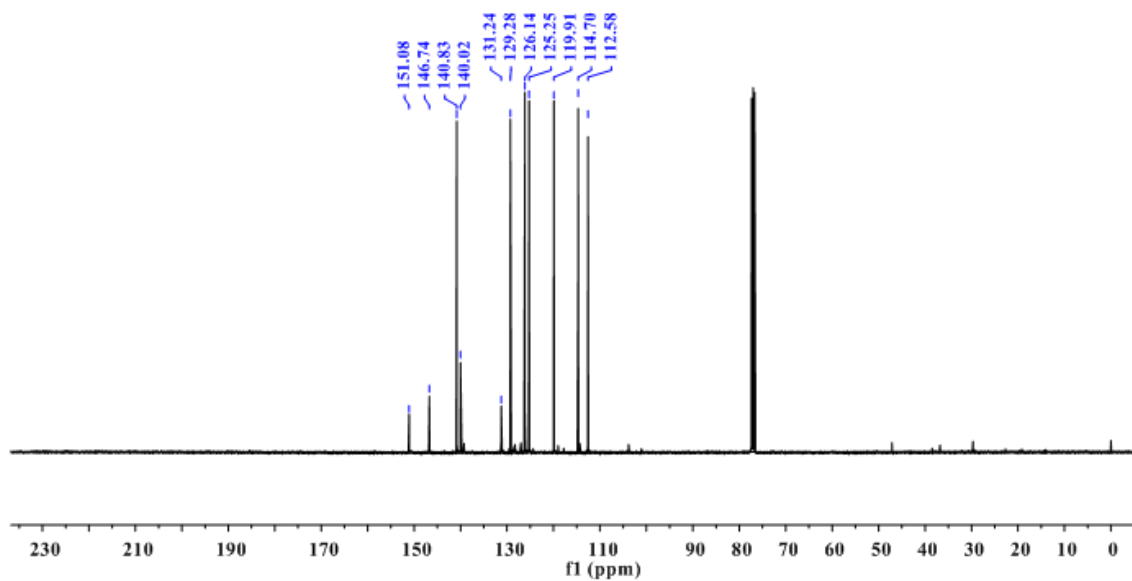
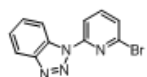
CARBON_01
XTPFC VARIAN MR-400
maxiaowei_LX_41 CDCL3



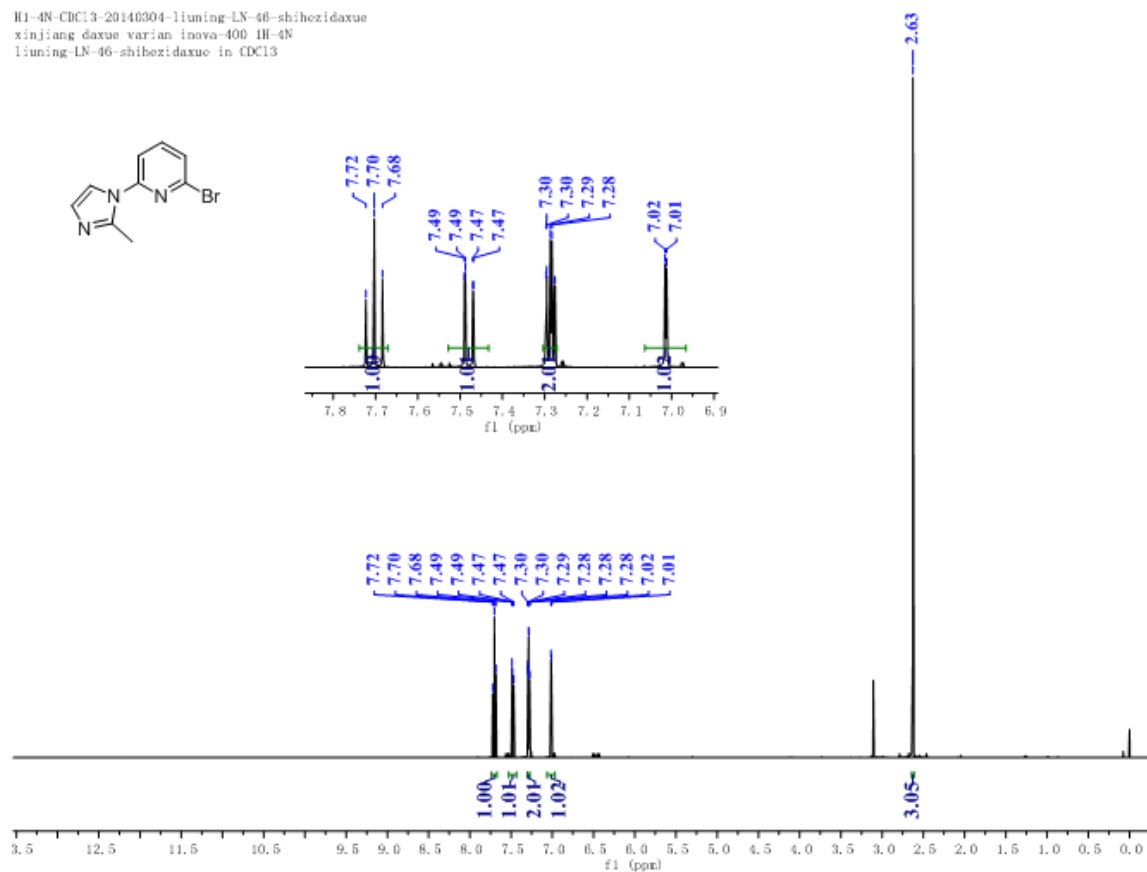
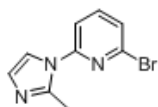
PROTON_01
XTPFC VARIAN MR-400
maxiaowei_LN_42 CDCl3



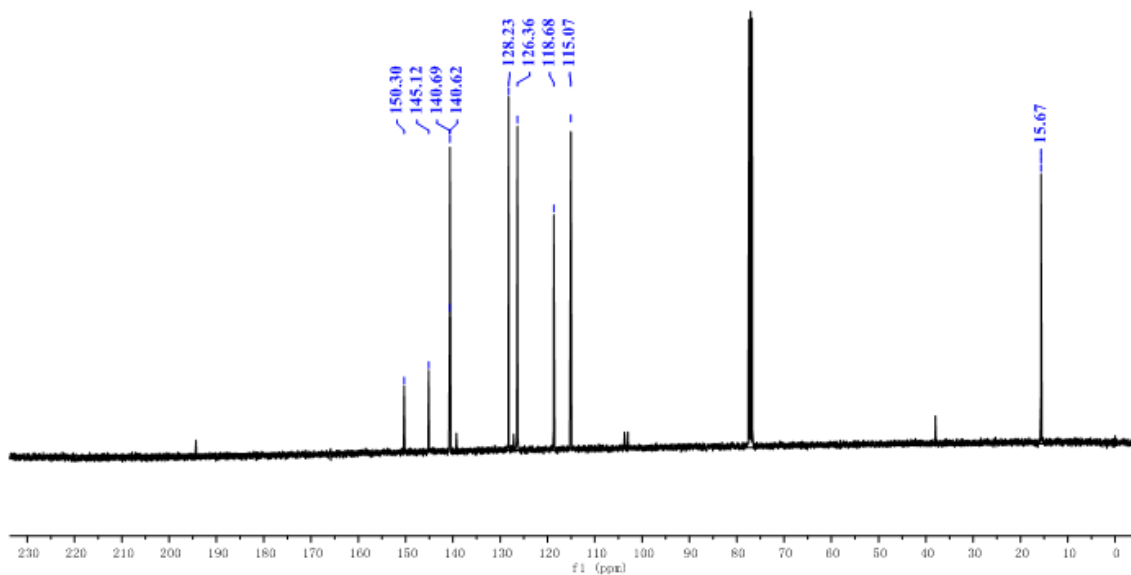
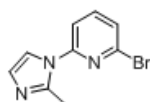
CARBON_01
XTPFC VARIAN MR-400
maxiaowei_LN_42 CDCl3



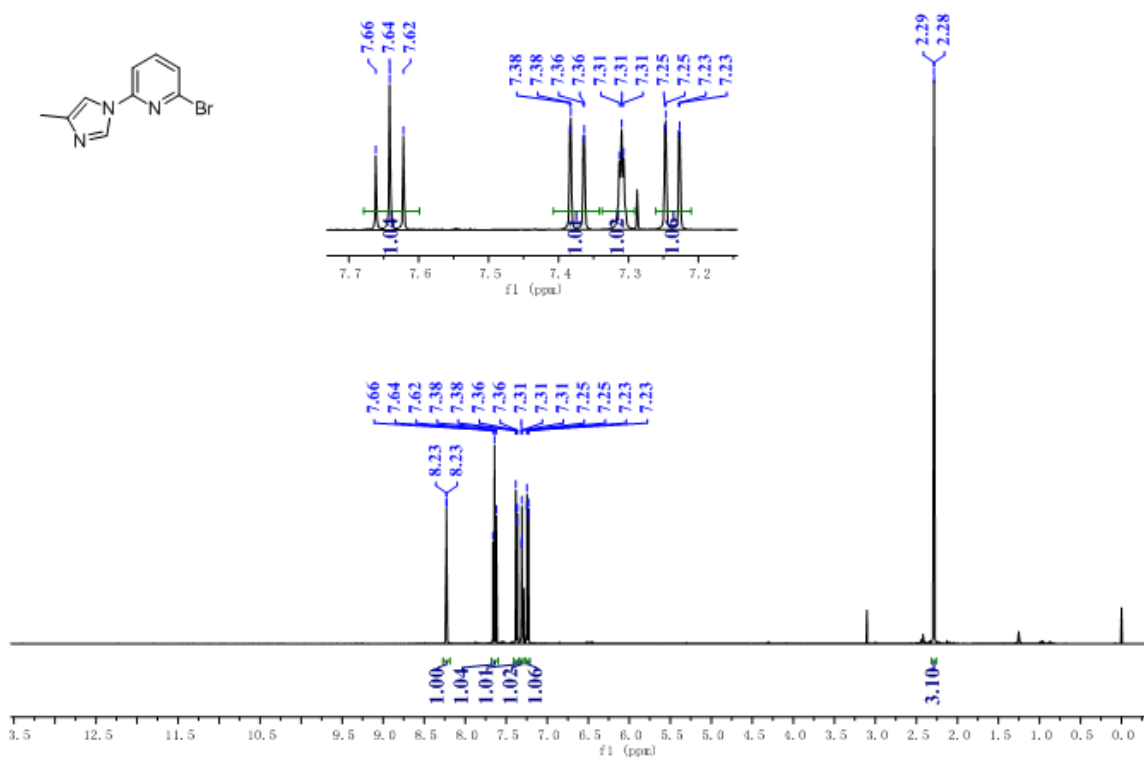
H1-4N-CDCl3-20140304-liuning-LN-46-shihezidaxue
 xinjiang daxue varian inova-400 H1-4N
 liuning-LN-46-shihezidaxue in CDCl3



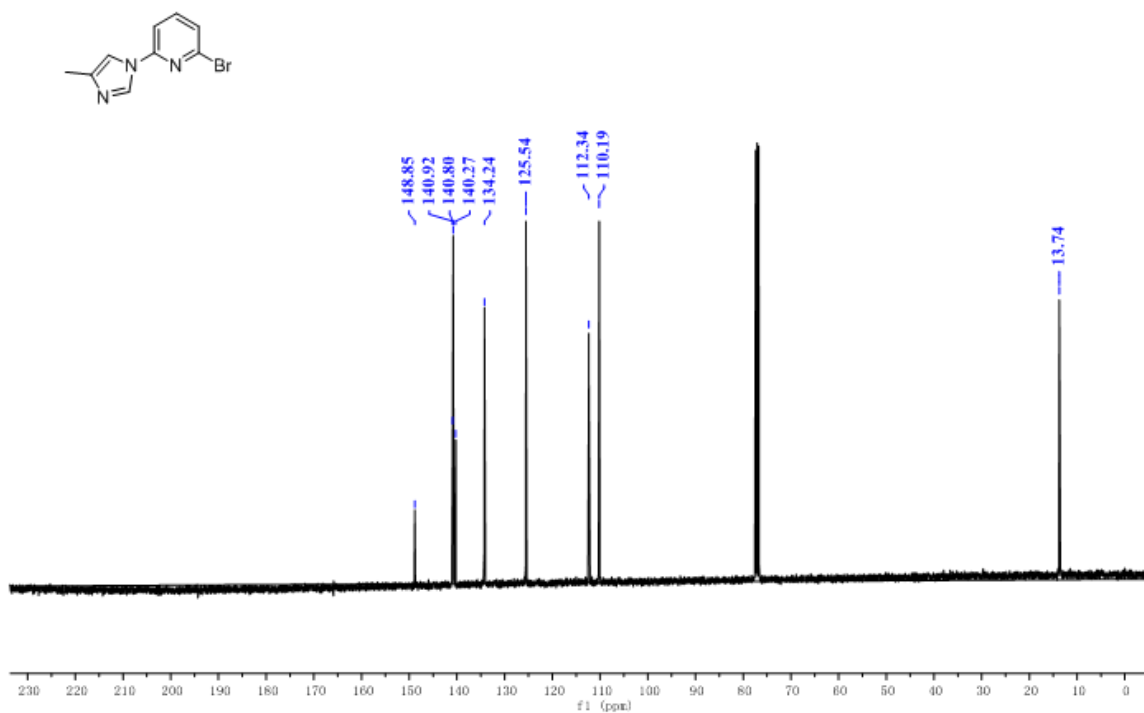
C13-4N-CDCl3-20140314-liuning-LN-46-shihezidaxue
 xinjiang daxue varian inova-400 13C-4N
 liuning-LN-46-shihezidaxue in CDCl3



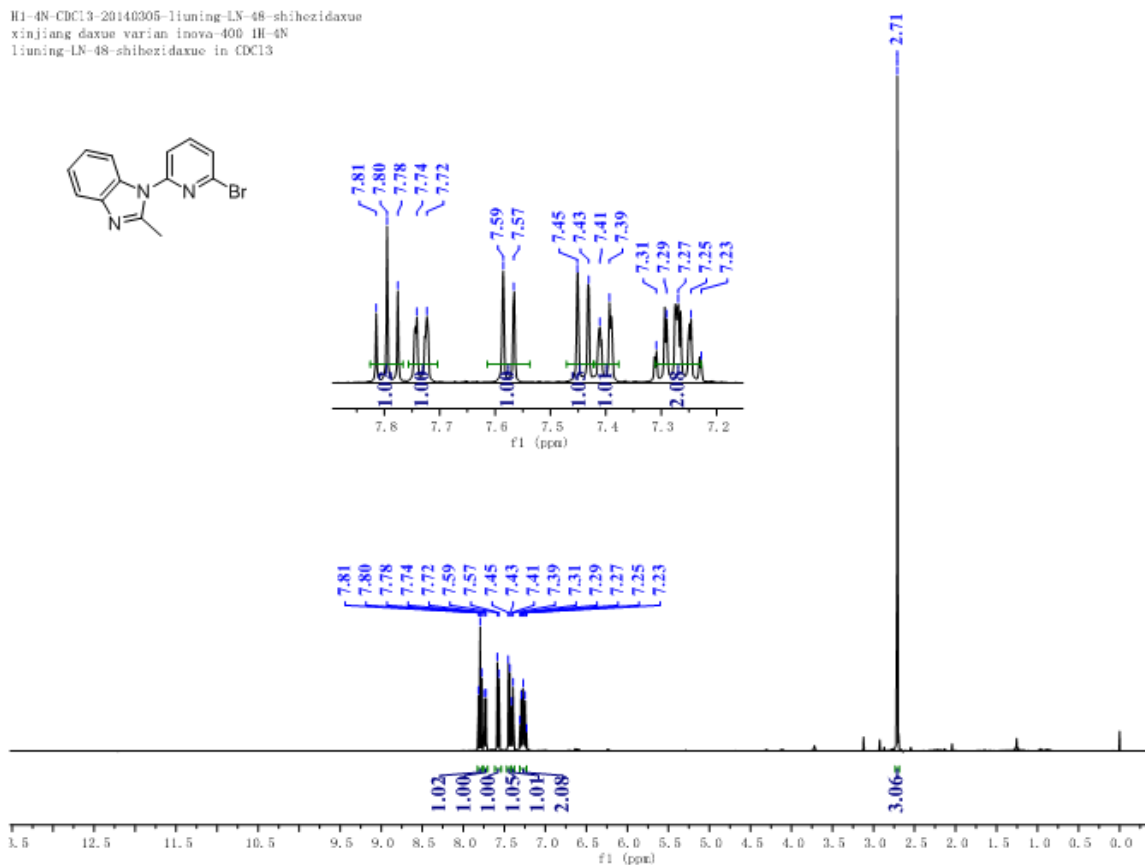
H1-4N-CDC13-20140305-liuning-LN-47-shihezidaxue
xinjiang daxue varian inova-400 1H-4N
liuning-LN-47-shihezidaxue in CDC13



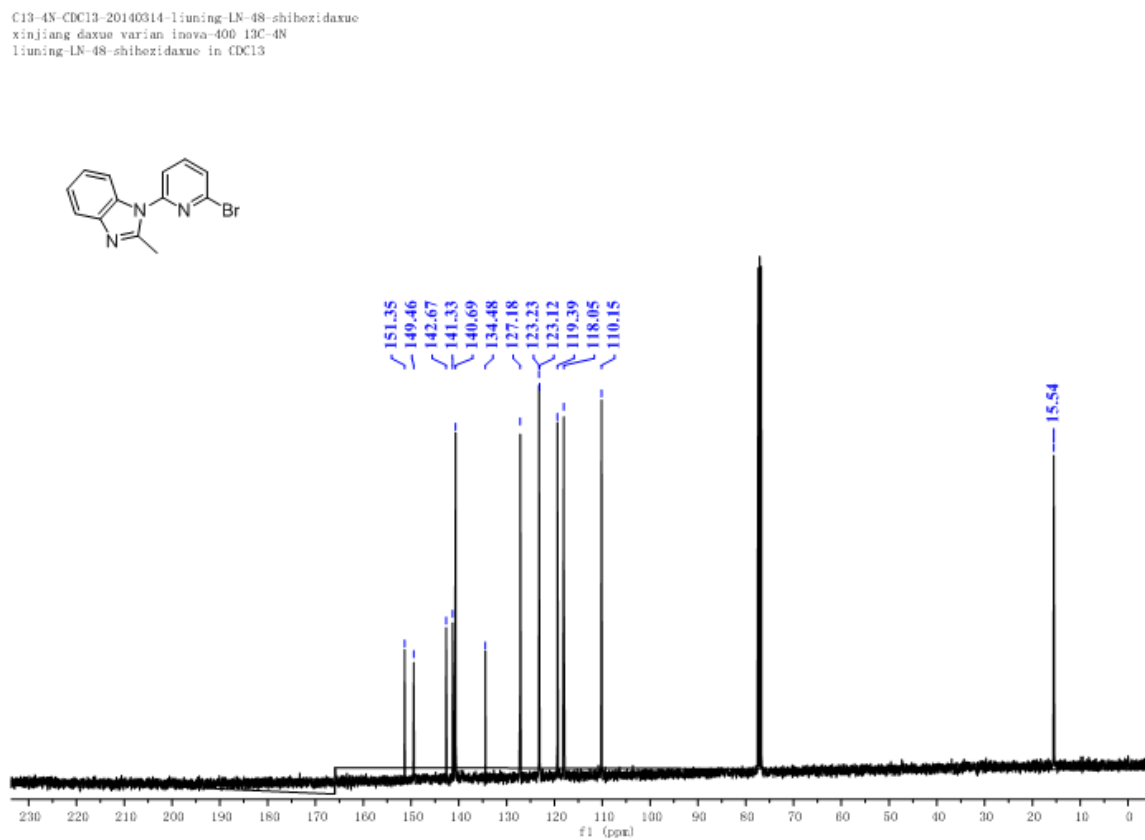
C13-4N-CDC13-20140314-liuning-LN-47-shihezidaxue
xinjiang daxue varian inova-400 13C-4N
liuning-LN-47-shihezidaxue in CDC13



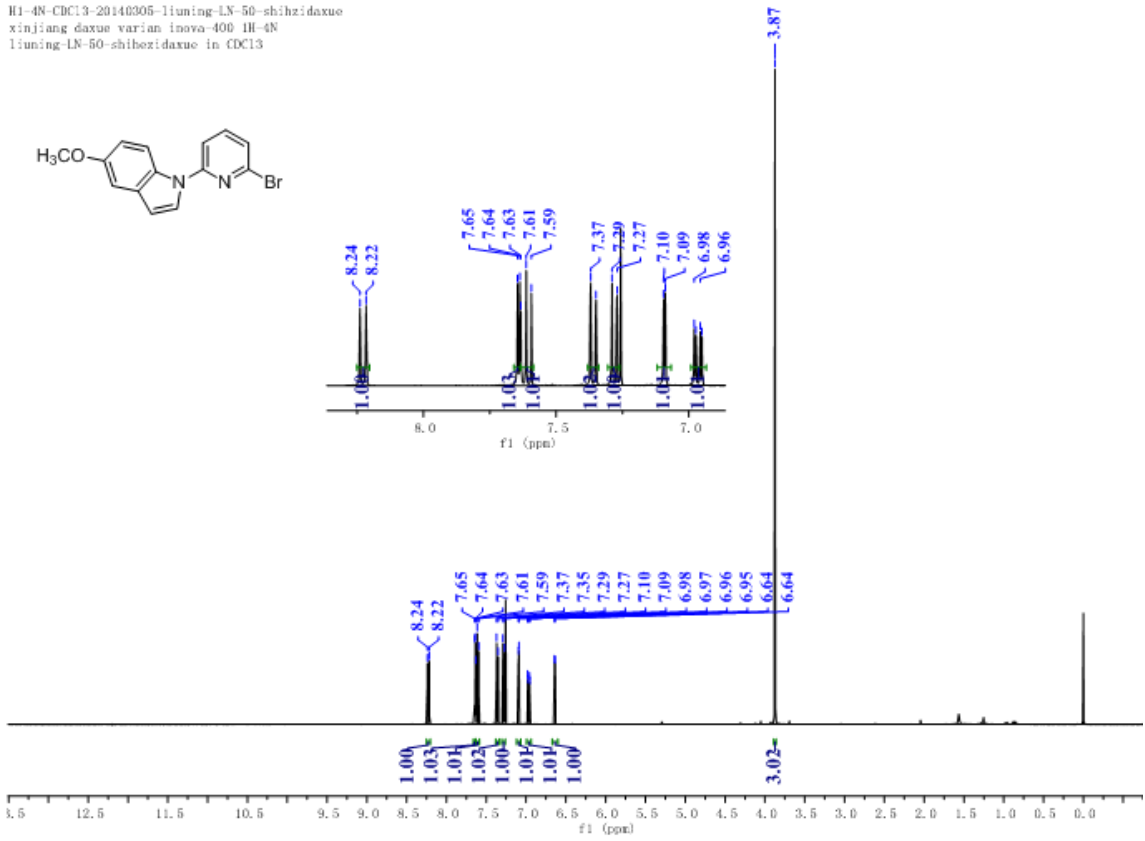
H1-4N-CDCl3-20140305-liuning-LN-48-shihezidaxue
xinjiang daxue varian inova-400 IH-4N
liuning-LN-48-shihezidaxue in CDCl3



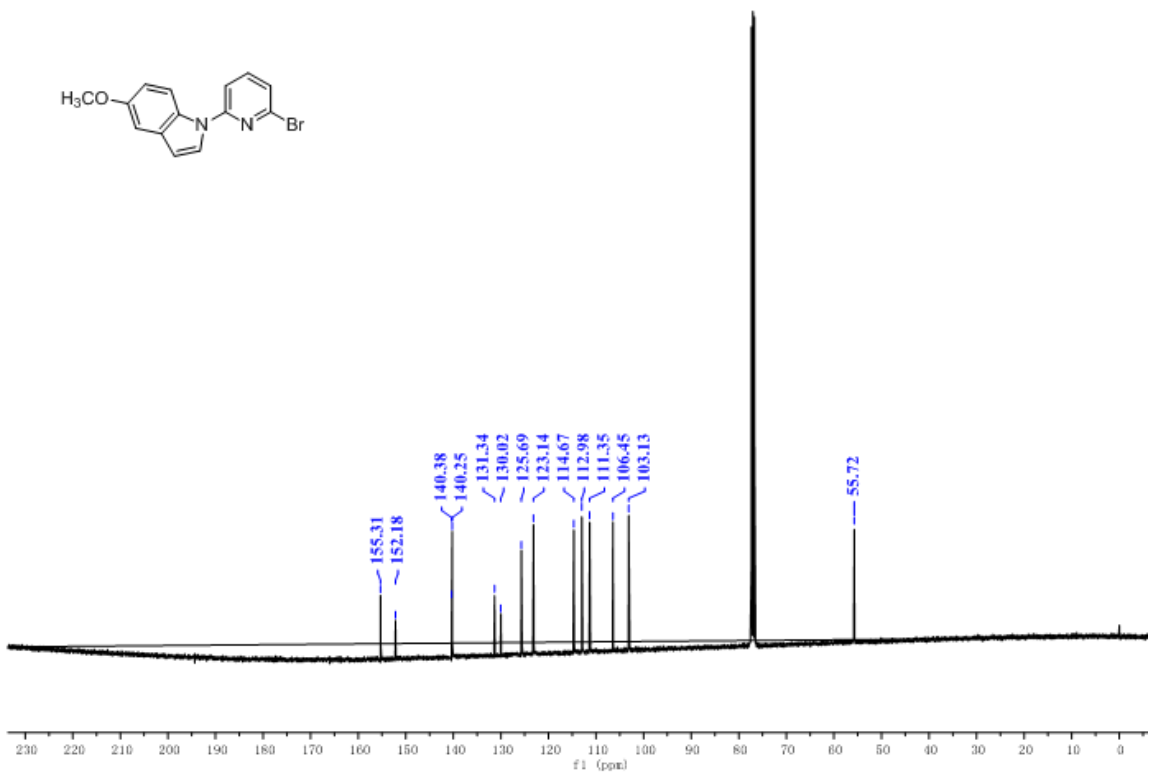
C13-4N-CDCl3-20140314-liuning-LN-48-shihezidaxue
xinjiang daxue varian inova-400 13C-4N
liuning-LN-48-shihezidaxue in CDCl3



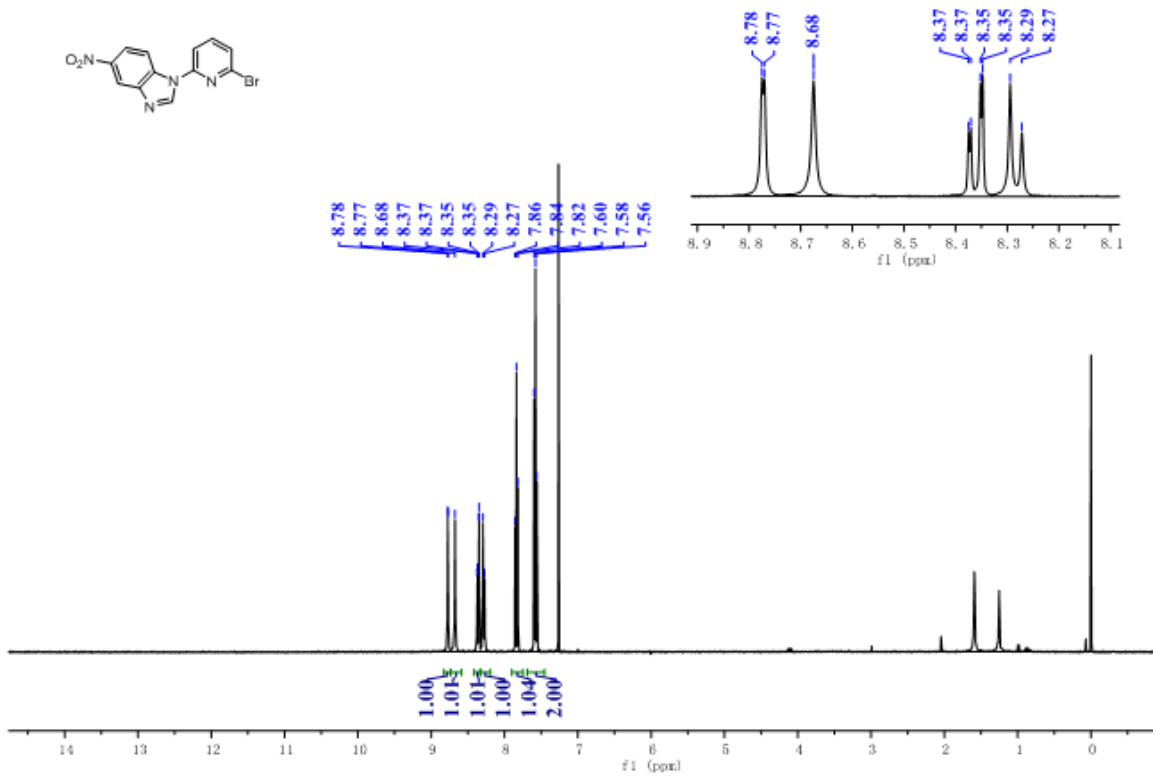
H1-4N-CDCl3-20140305-liuning-LN-50-shihexidaxue
 xinjiang daxue varian inova-400 IH-4N
 liuning-LN-50-shihexidaxue in CDCl3



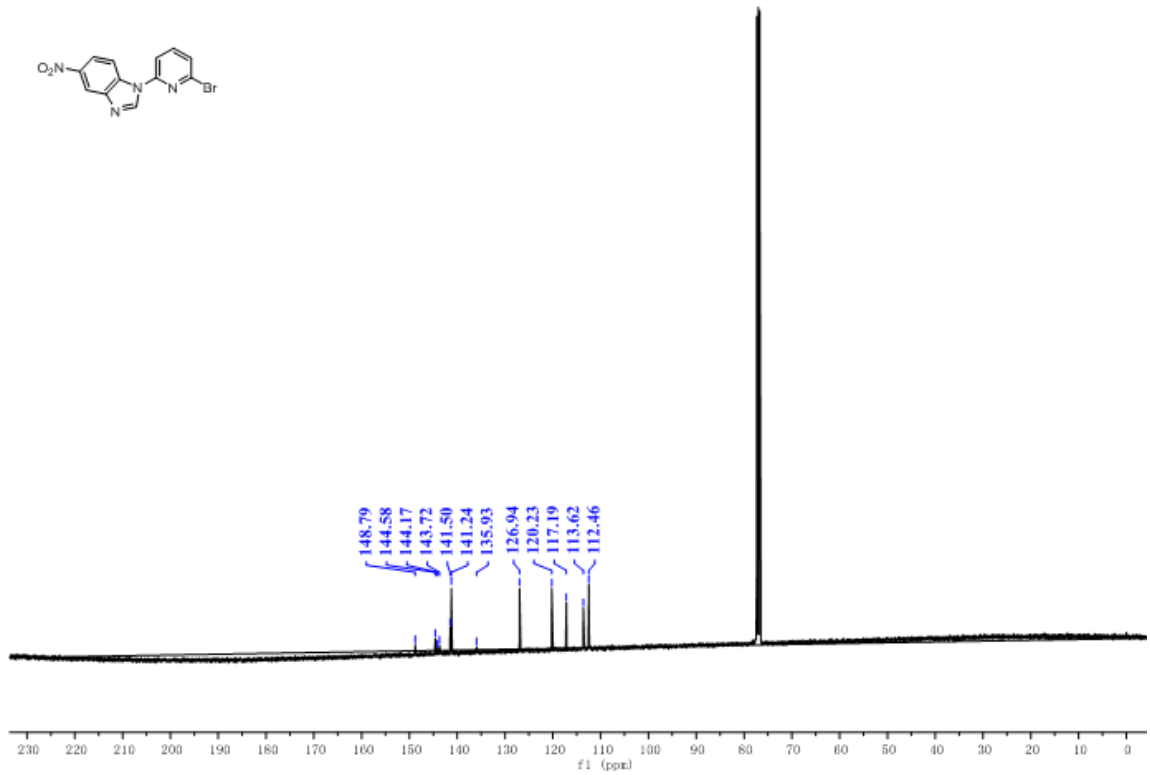
C13-4N-CDCl3-20140315-liuning-LN-50-shihexidaxue
 xinjiang daxue varian inova-400 13C-4N
 liuning-LN-50-shihexidaxue in CDCl3

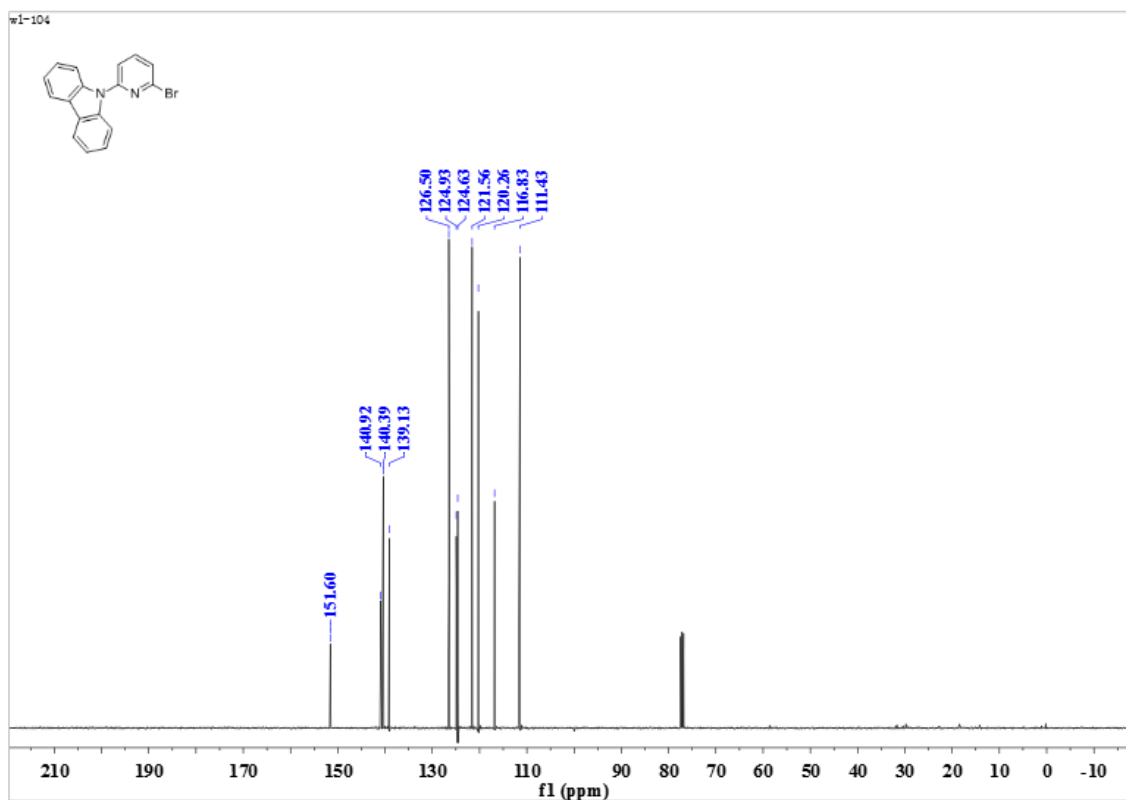
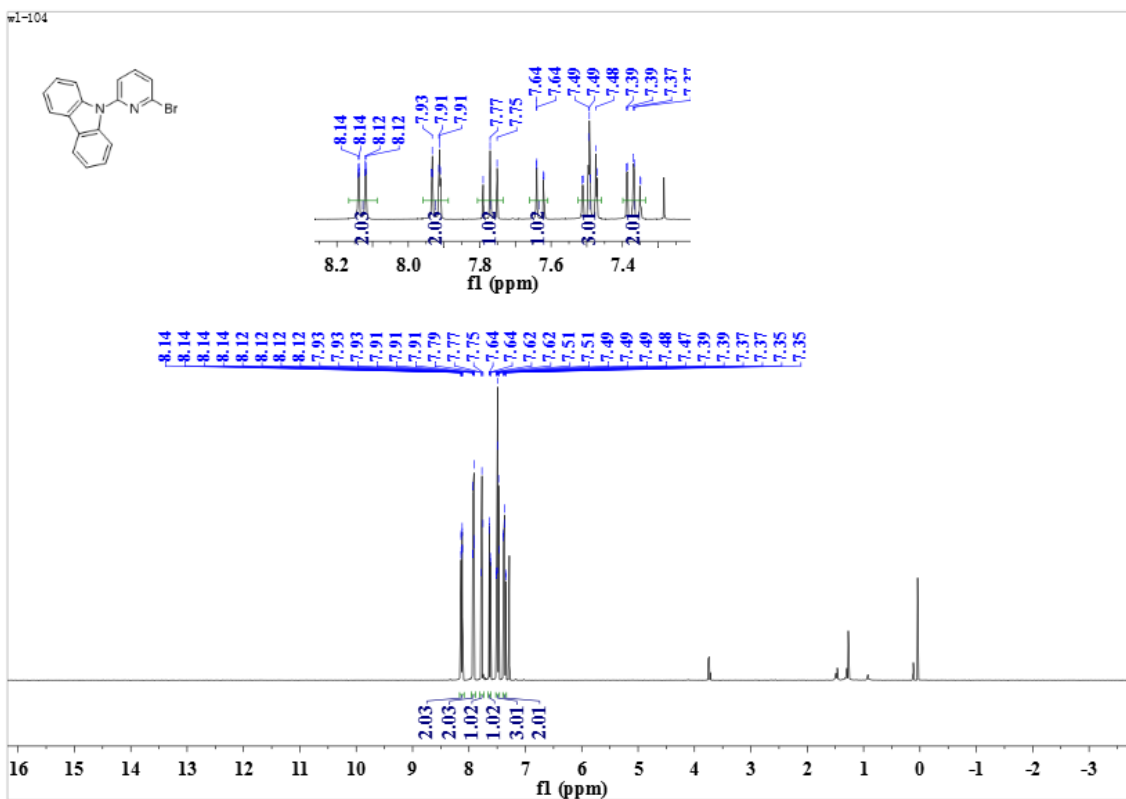


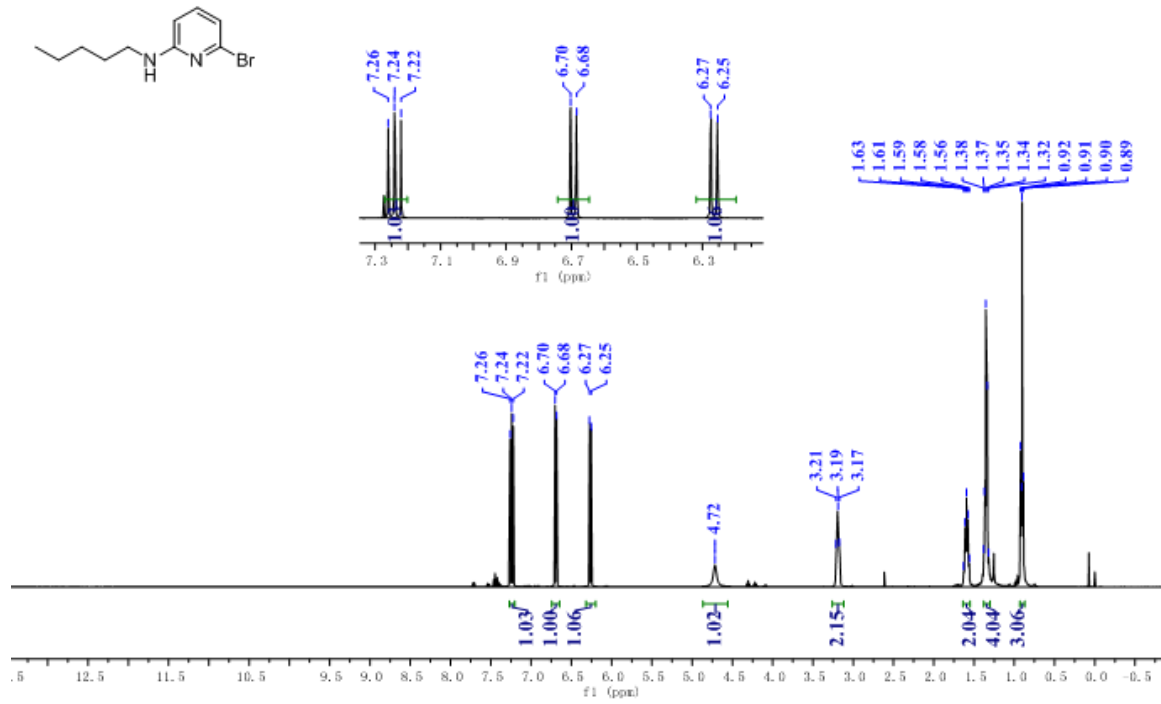
H1-4N-CDC13-20140405-liuning-LN-09-shihezidaxue
 xinjiang daxue varian inova-400 1H-4N
 liuning-LN-09-shihezidaxue
 in CDC13



C13-4N-CDC13-20140417-liuning-LN-09-shihezidaxue
 xinjiang daxue varian inova-400 13C-4N
 liuning-LN-09-shihezidaxue in CDCl3







C13-4N-CDC13-20140315-liuning-LN-52-shihezidaxue
 xinjiang daxue varian inova-400 13C-4N
 liuning-LN-52-shihezidaxue in CDC13

