

Electronic Supplementary Information

Nickel-Catalyzed Cross-Coupling of Aryltrimethylammonium Triflates and Amines

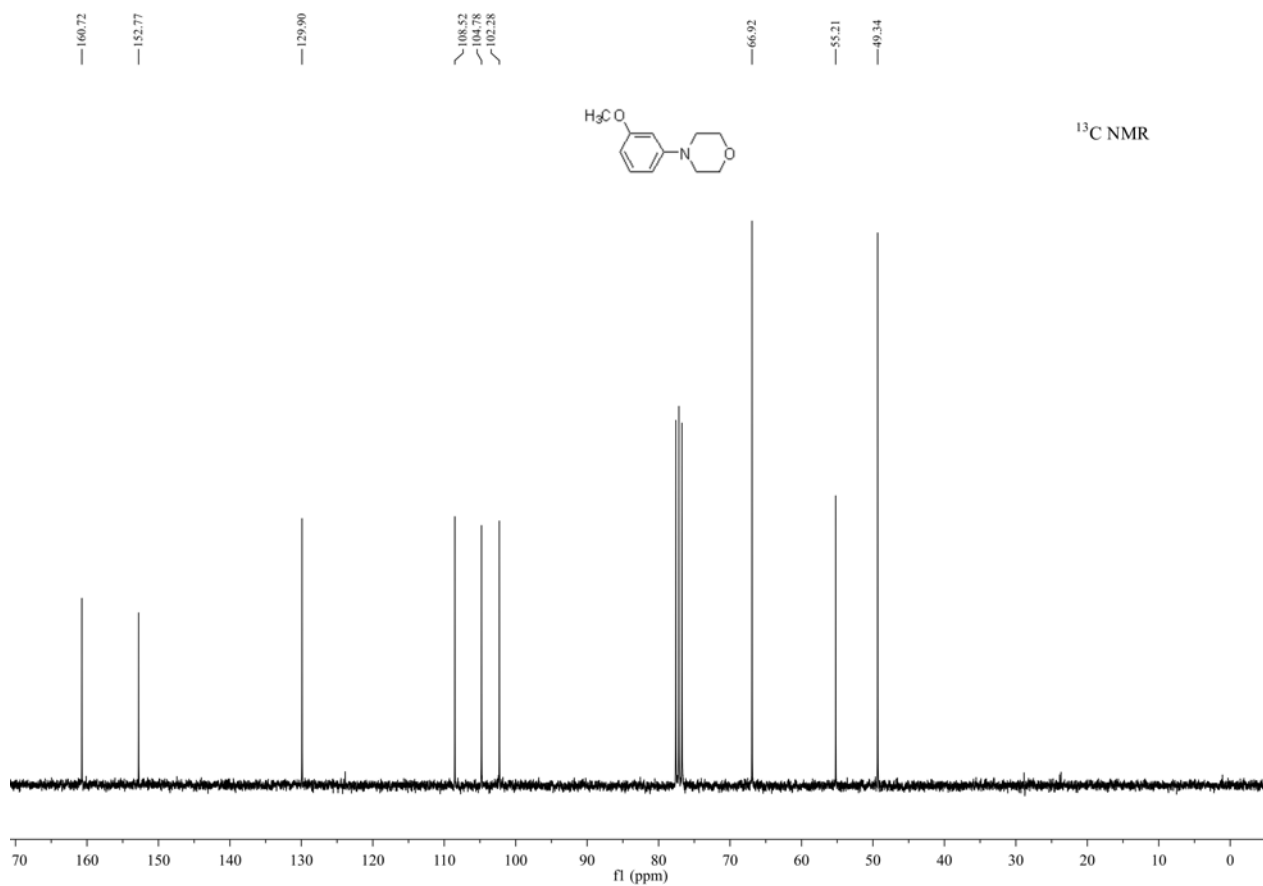
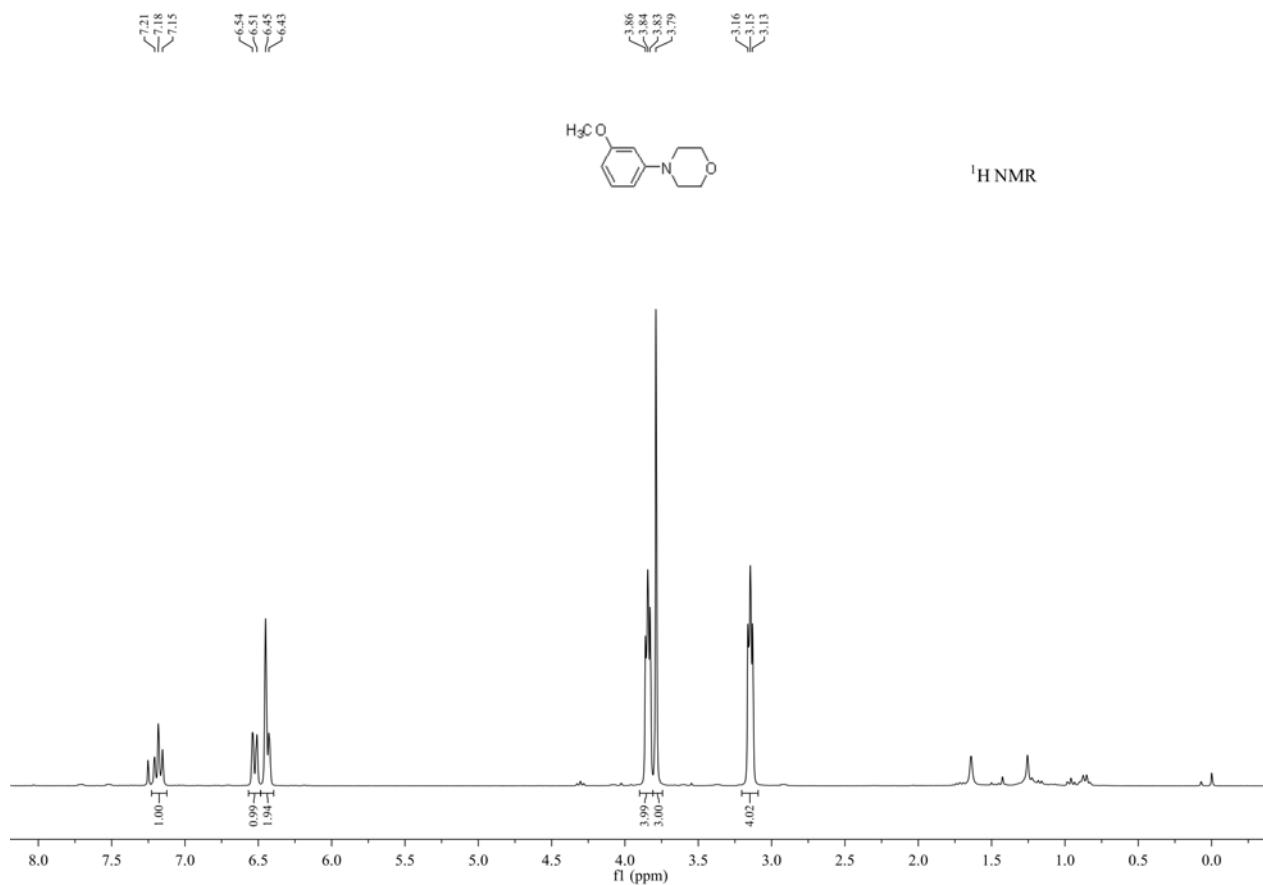
Xue-Qi Zhang and Zhong-Xia Wang*

CAS Key Laboratory of Soft Matter Chemistry and Department of Chemistry, University of Science and Technology of China, Hefei, Anhui 230026, People's Republic of China.

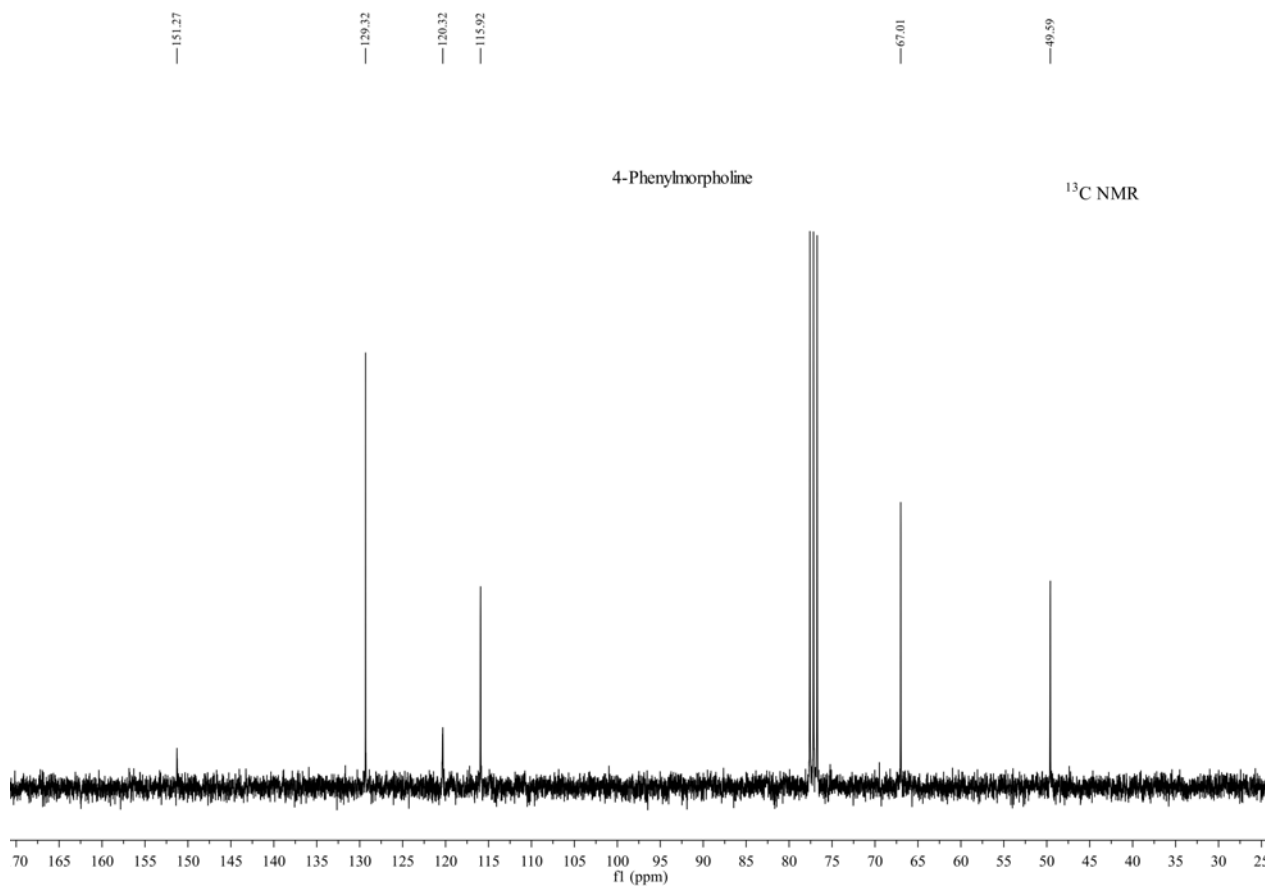
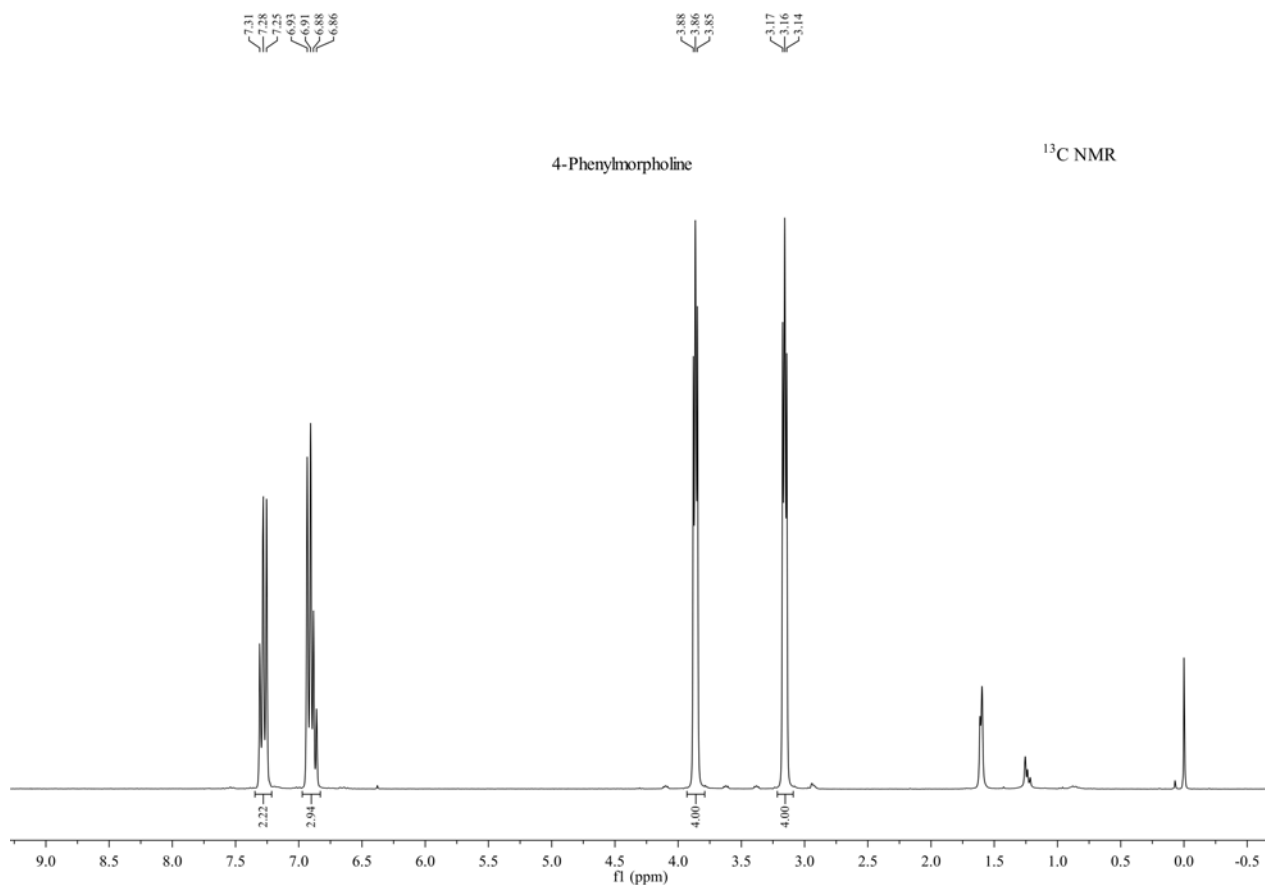
E-mail: zwxwang@ustc.edu.cn

Copies of ^1H and ^{13}C NMR spectra of the coupling products

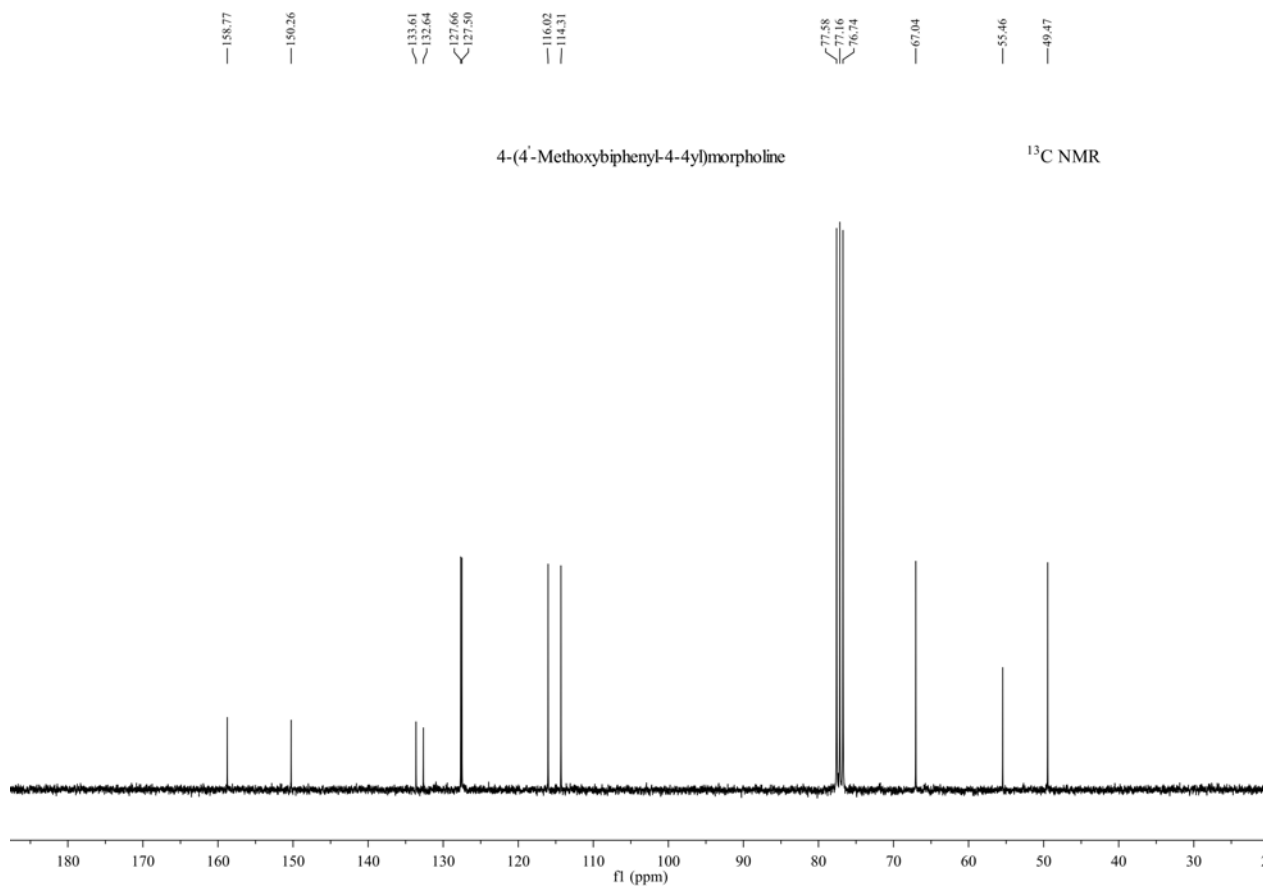
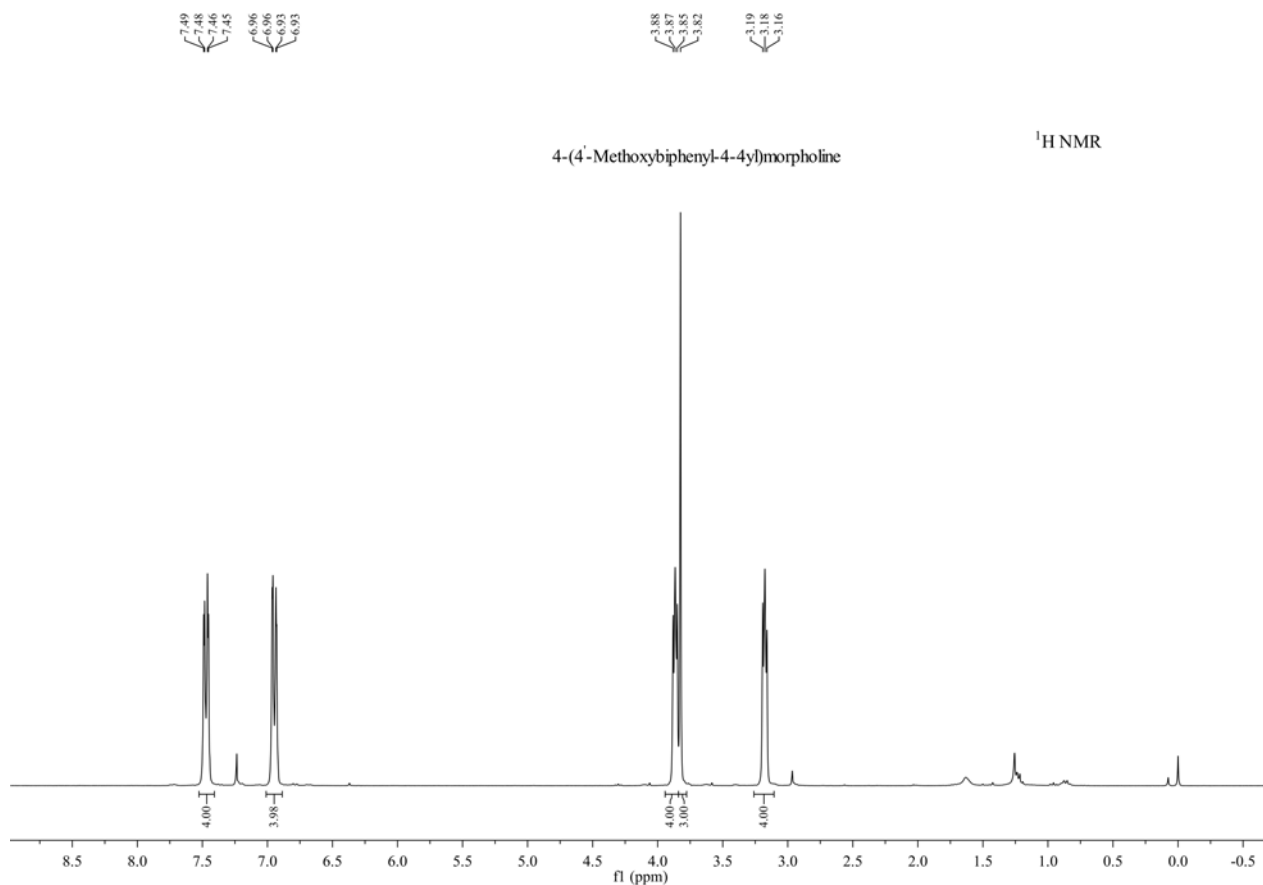
(1) 4-(3-Methoxyphenyl)morpholine (**3a**)



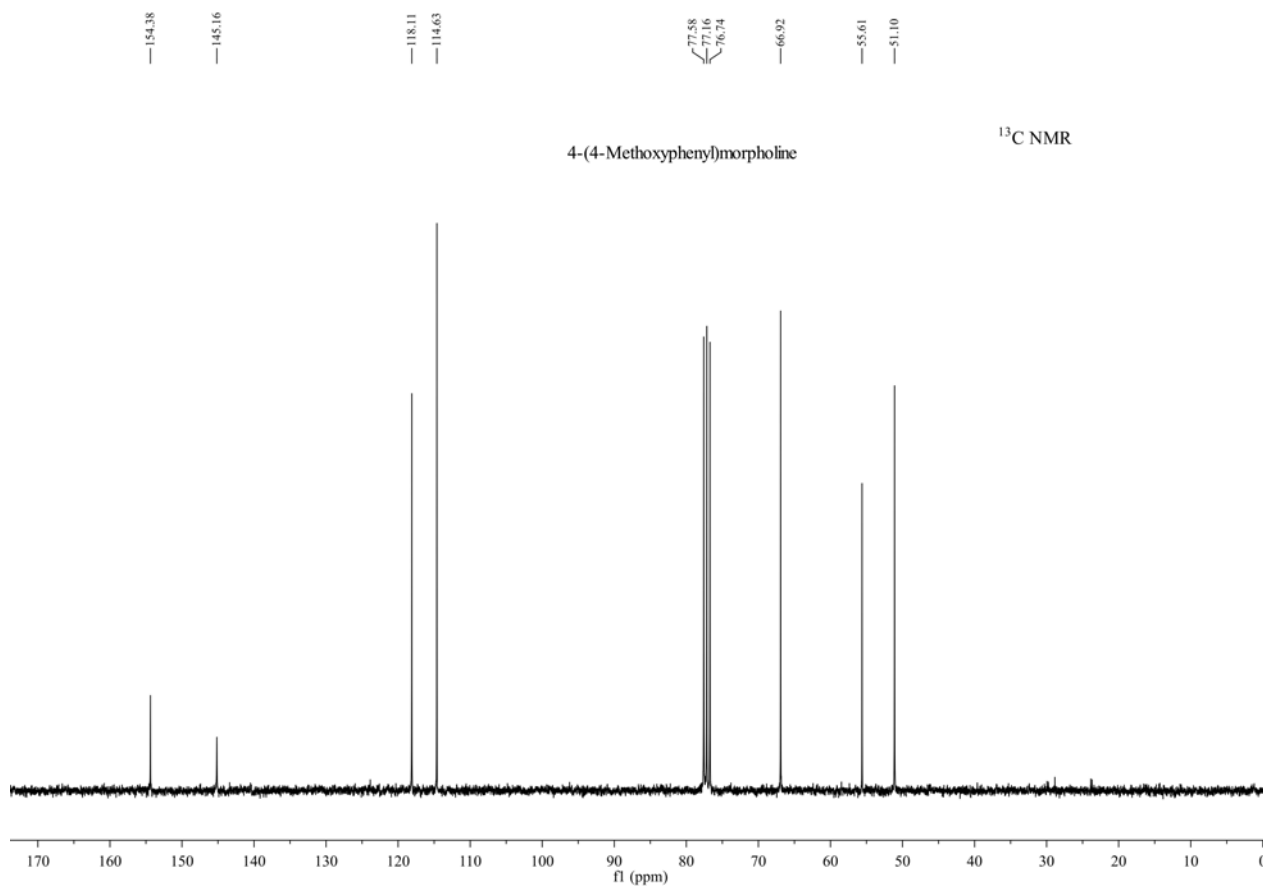
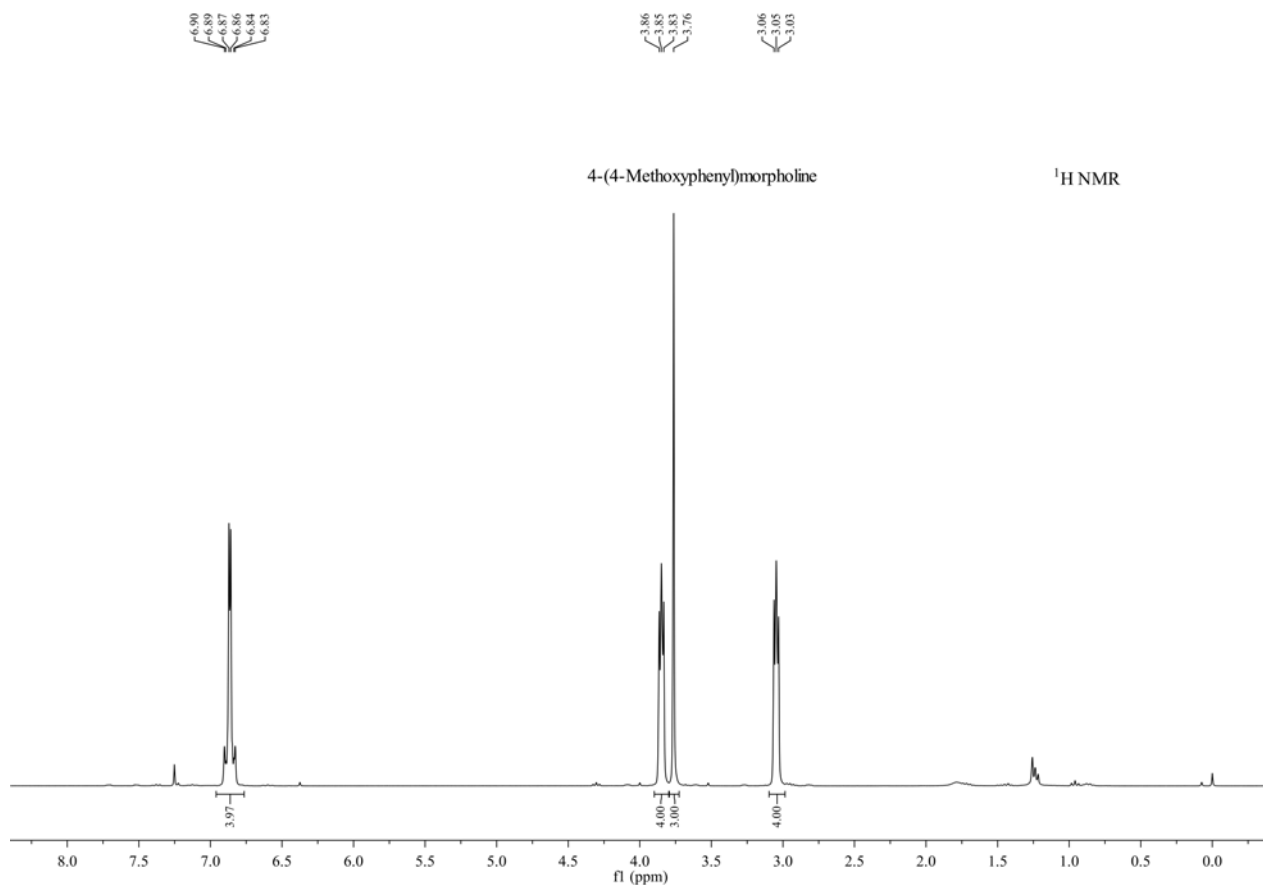
(2) 4-Phenylmorpholine (**3b**)



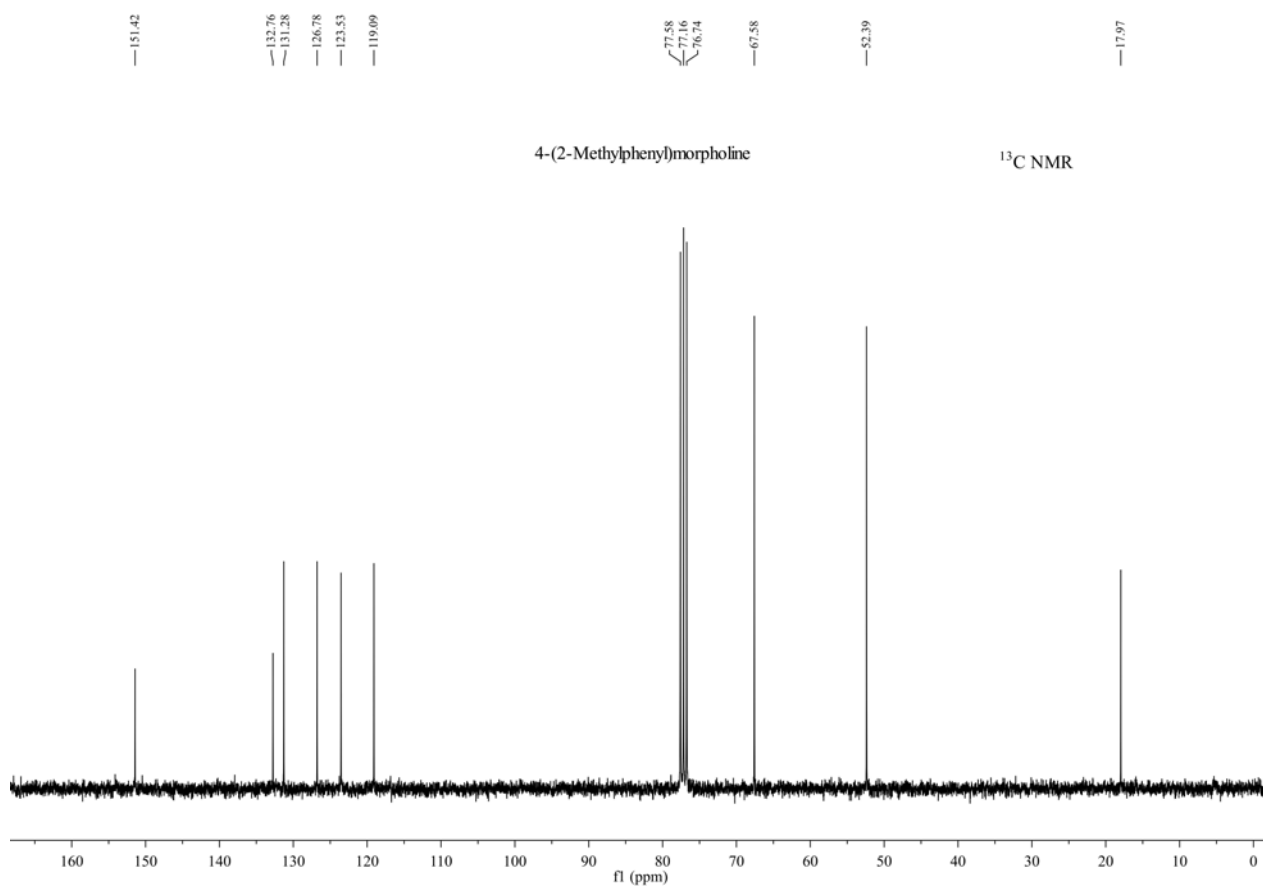
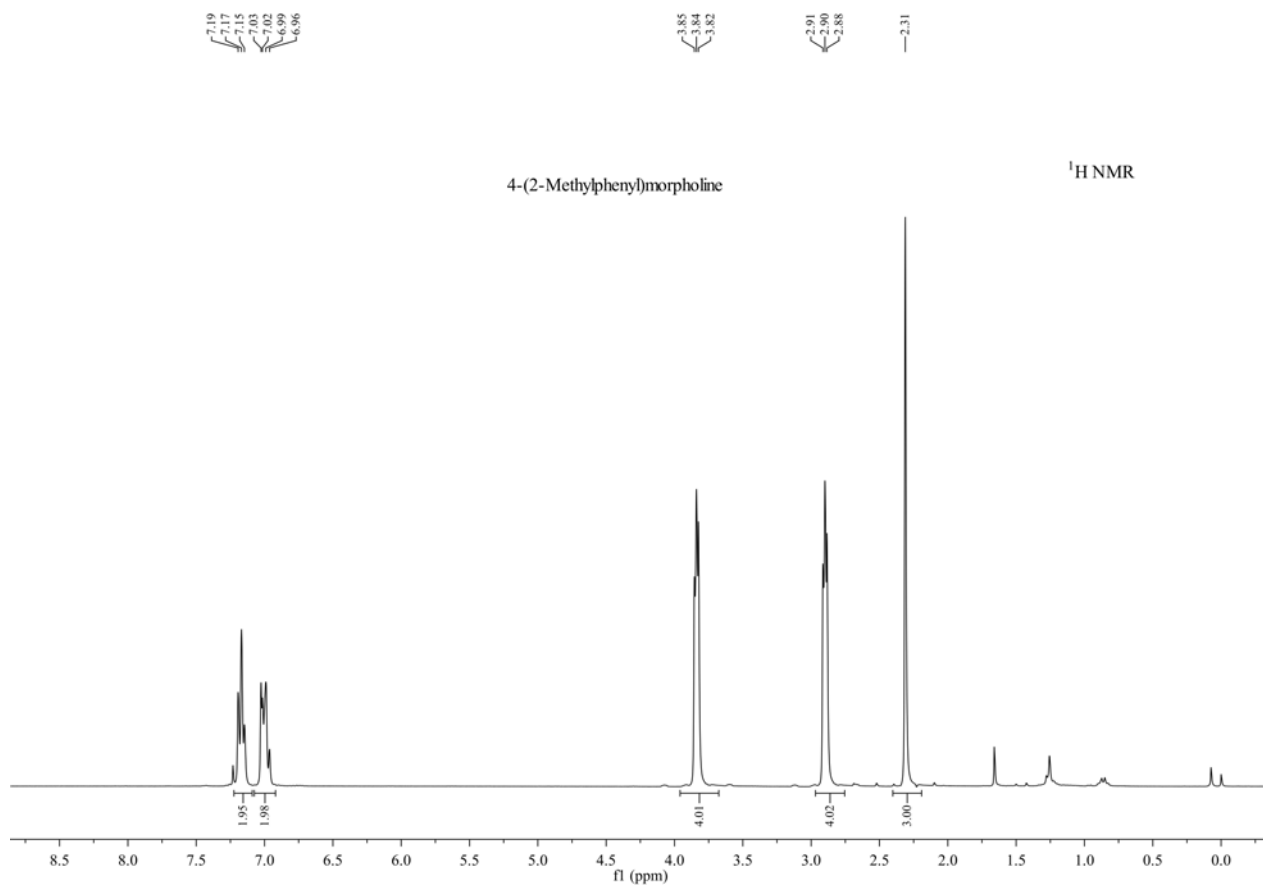
(3) 4-(4'-Methoxybiphenyl-4-yl)morpholine (**3c**)



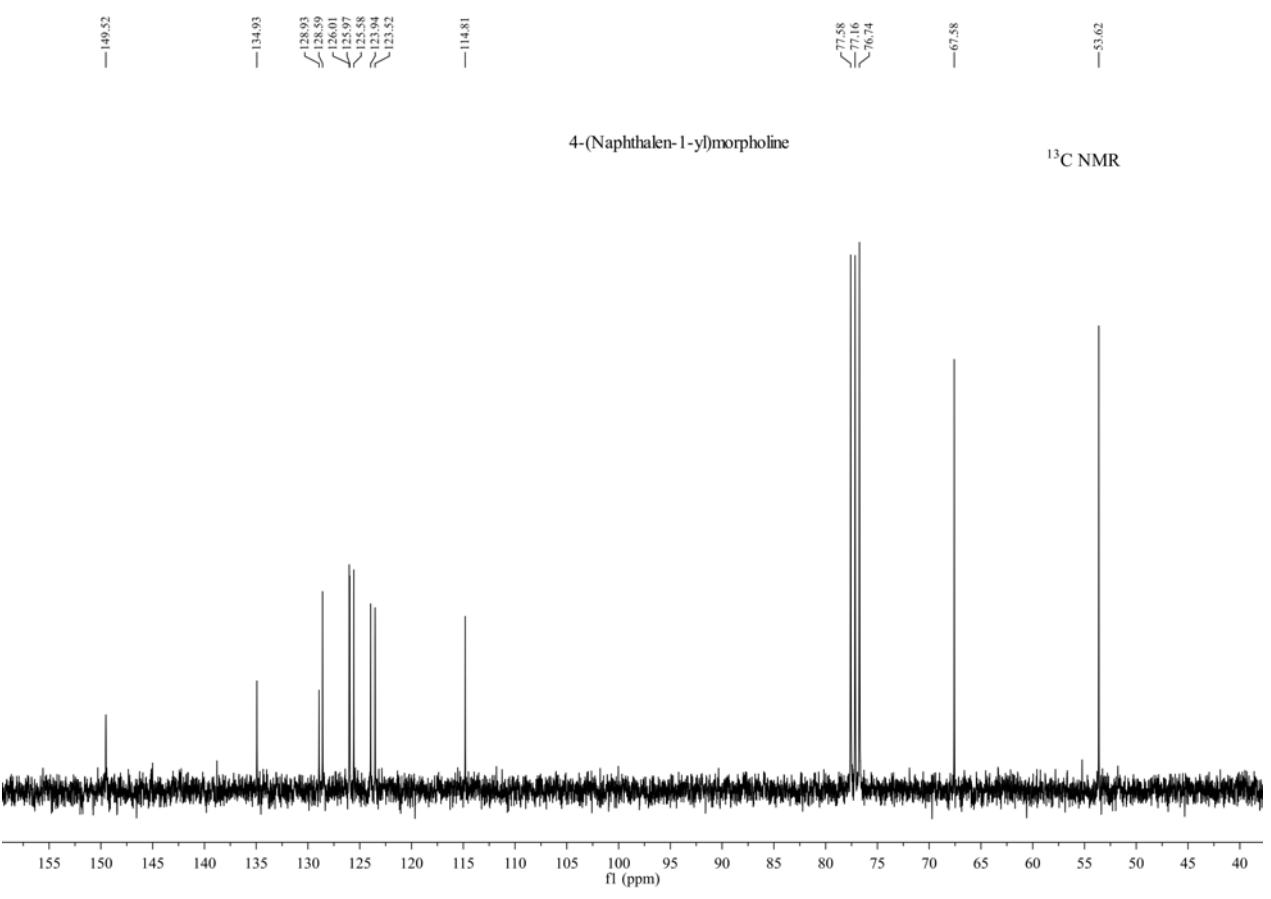
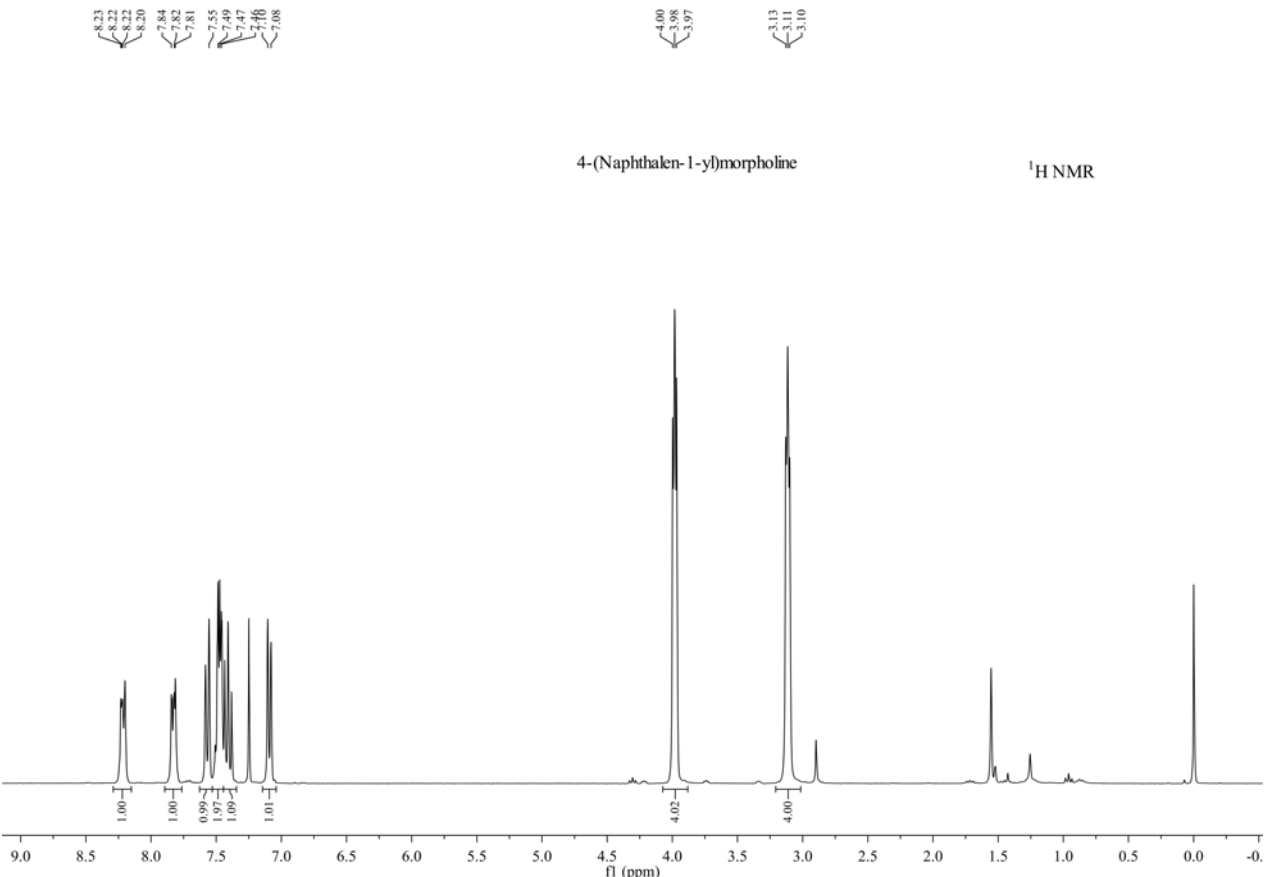
(4) 4-(4-Methoxyphenyl)morpholine (**3d**)



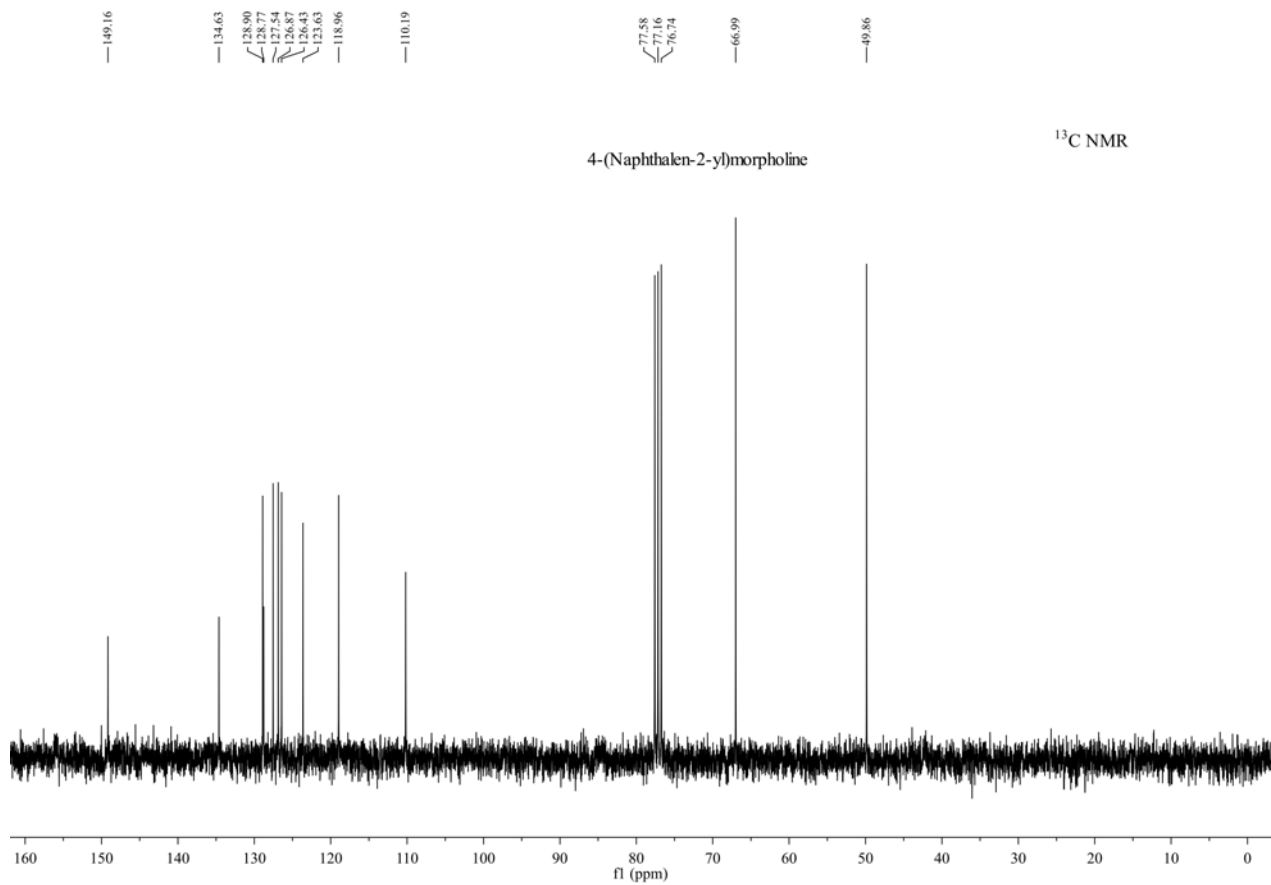
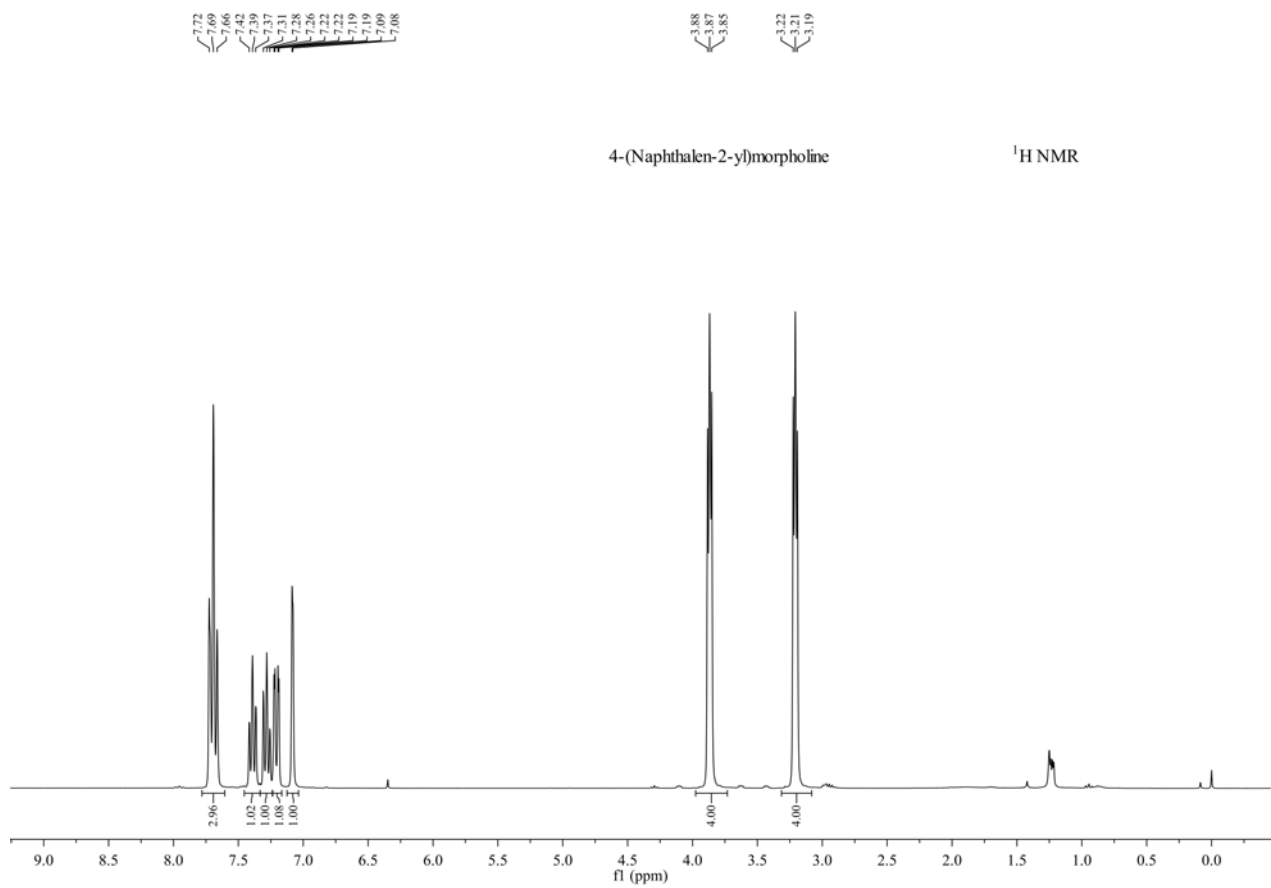
(5) 4-(2-Methylphenyl)morpholine (**3e**)



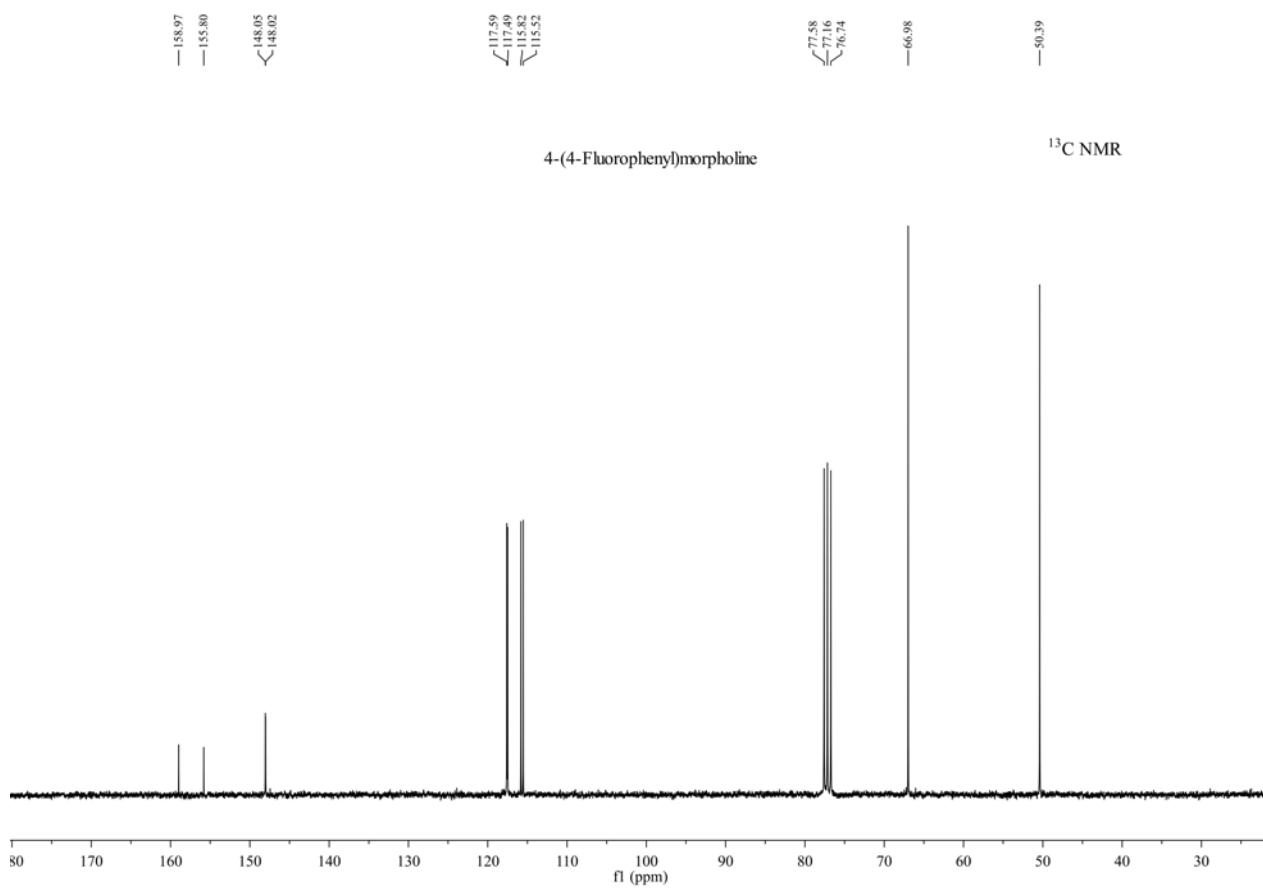
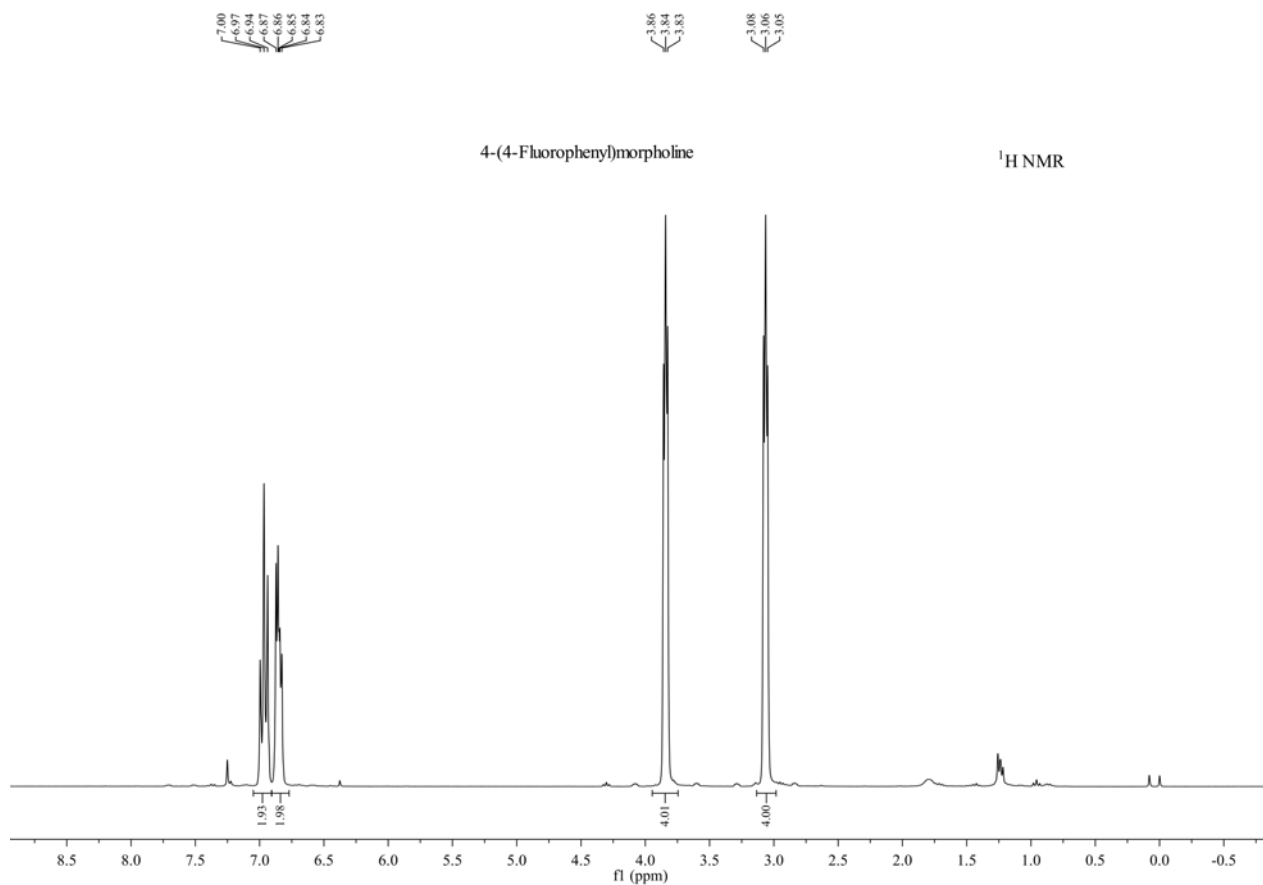
(6) 4-(Naphthalen-1-yl)morpholine (**3f**)



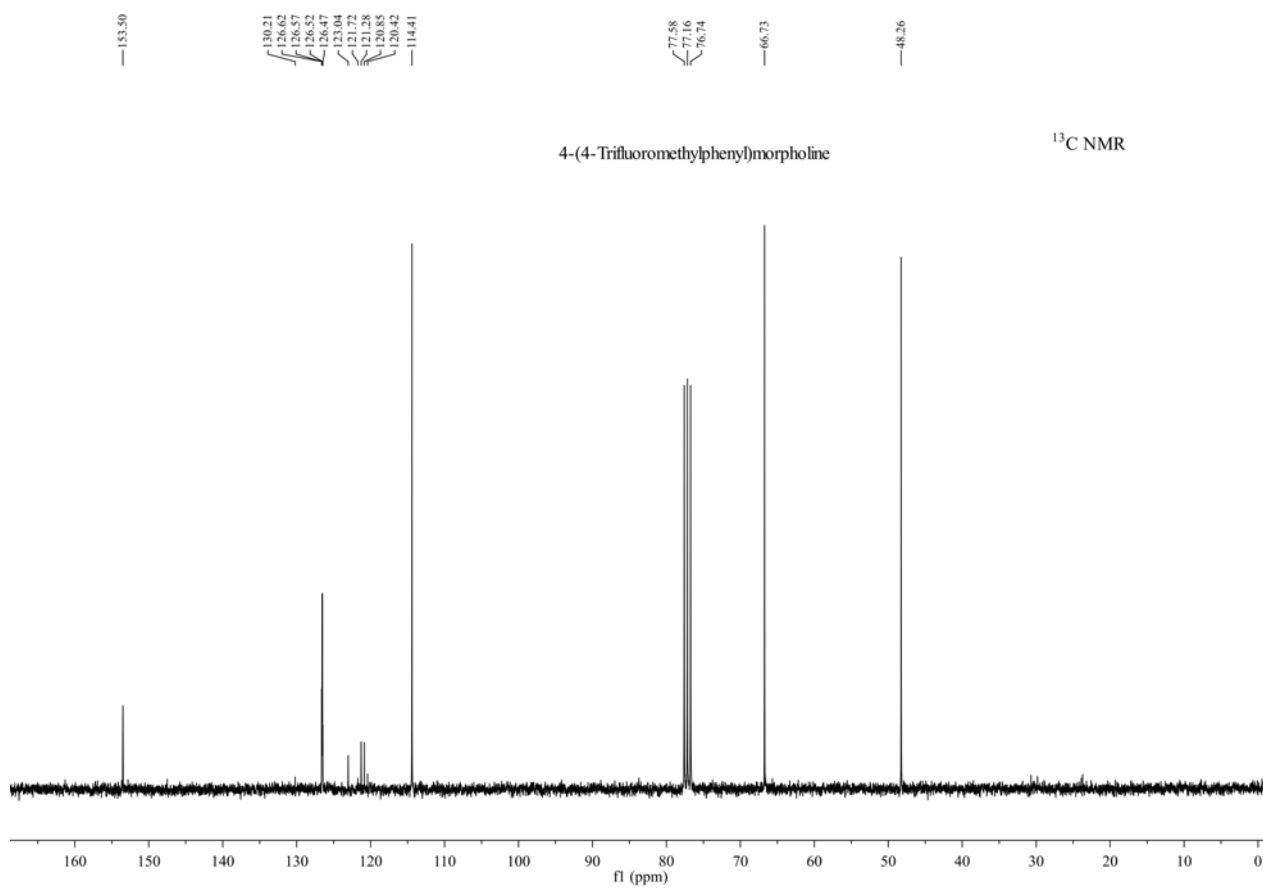
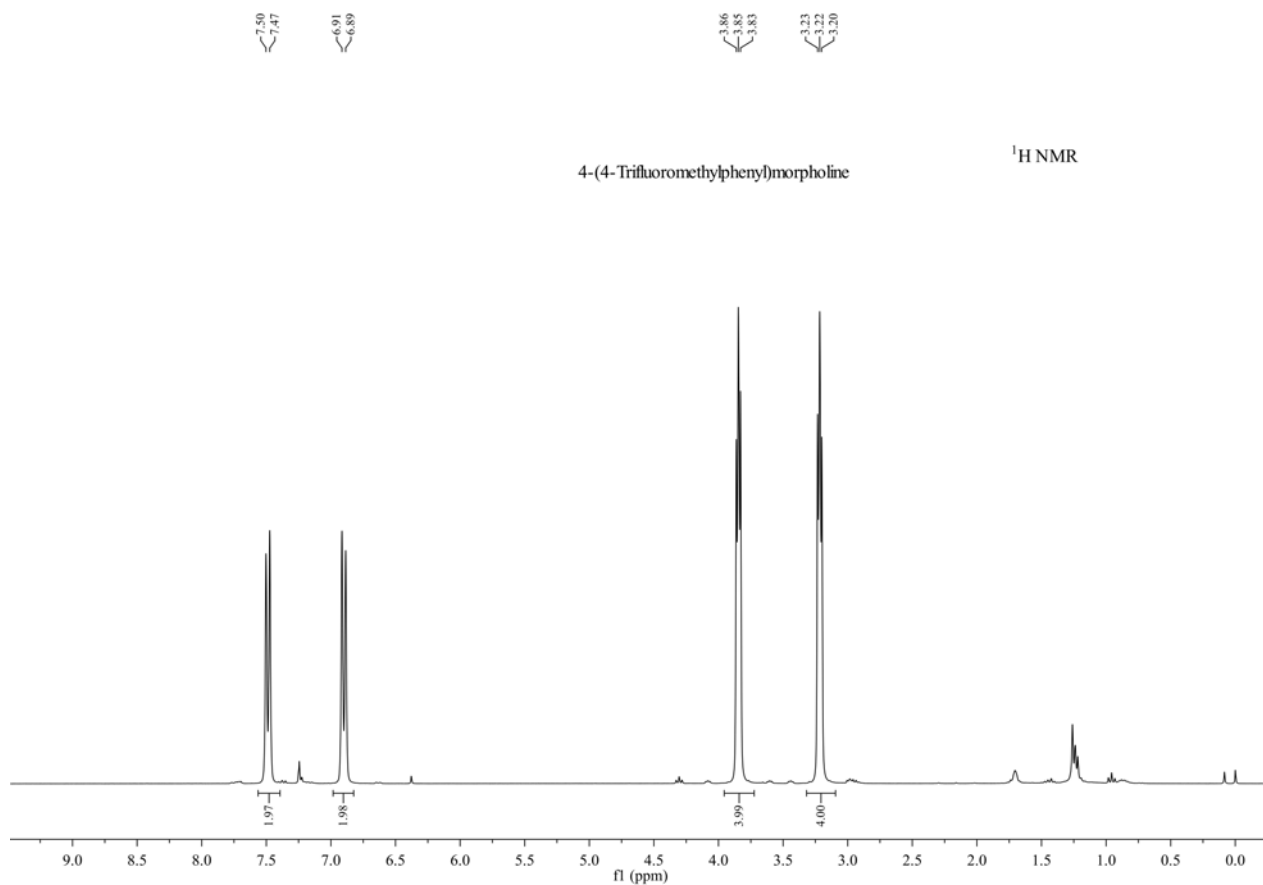
(7) 4-(Naphthalen-2-yl)morpholine (**3g**)



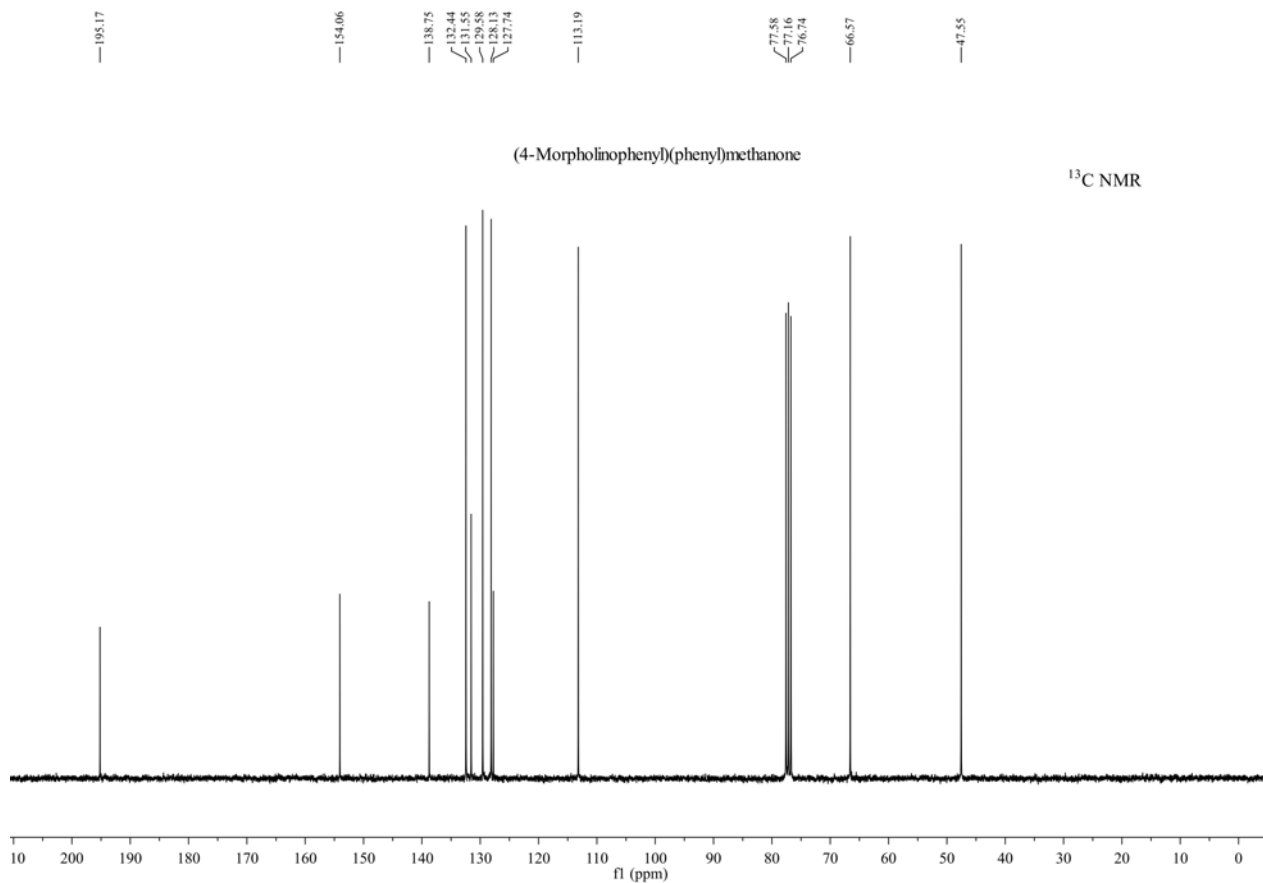
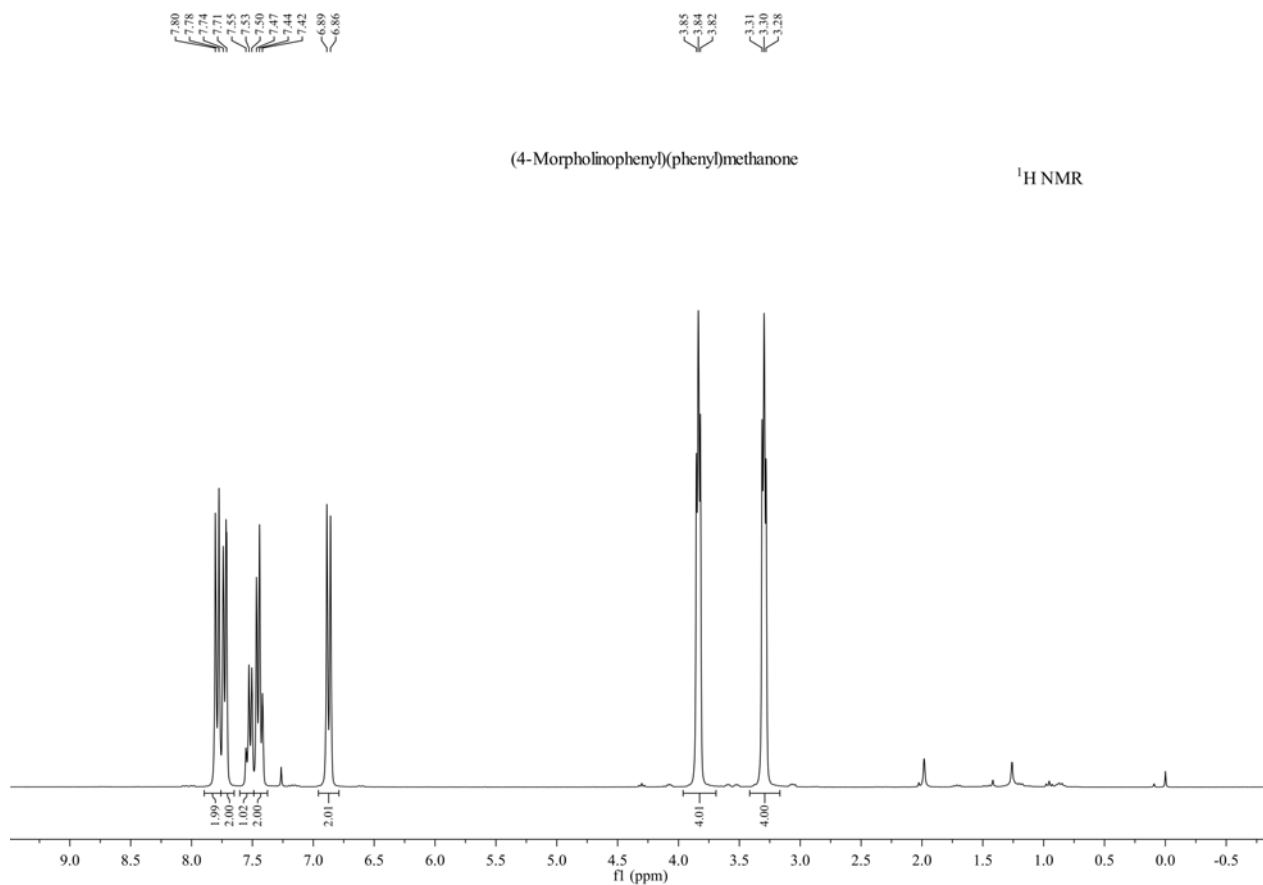
(8) 4-(4-Fluorophenyl)morpholine (**3h**)



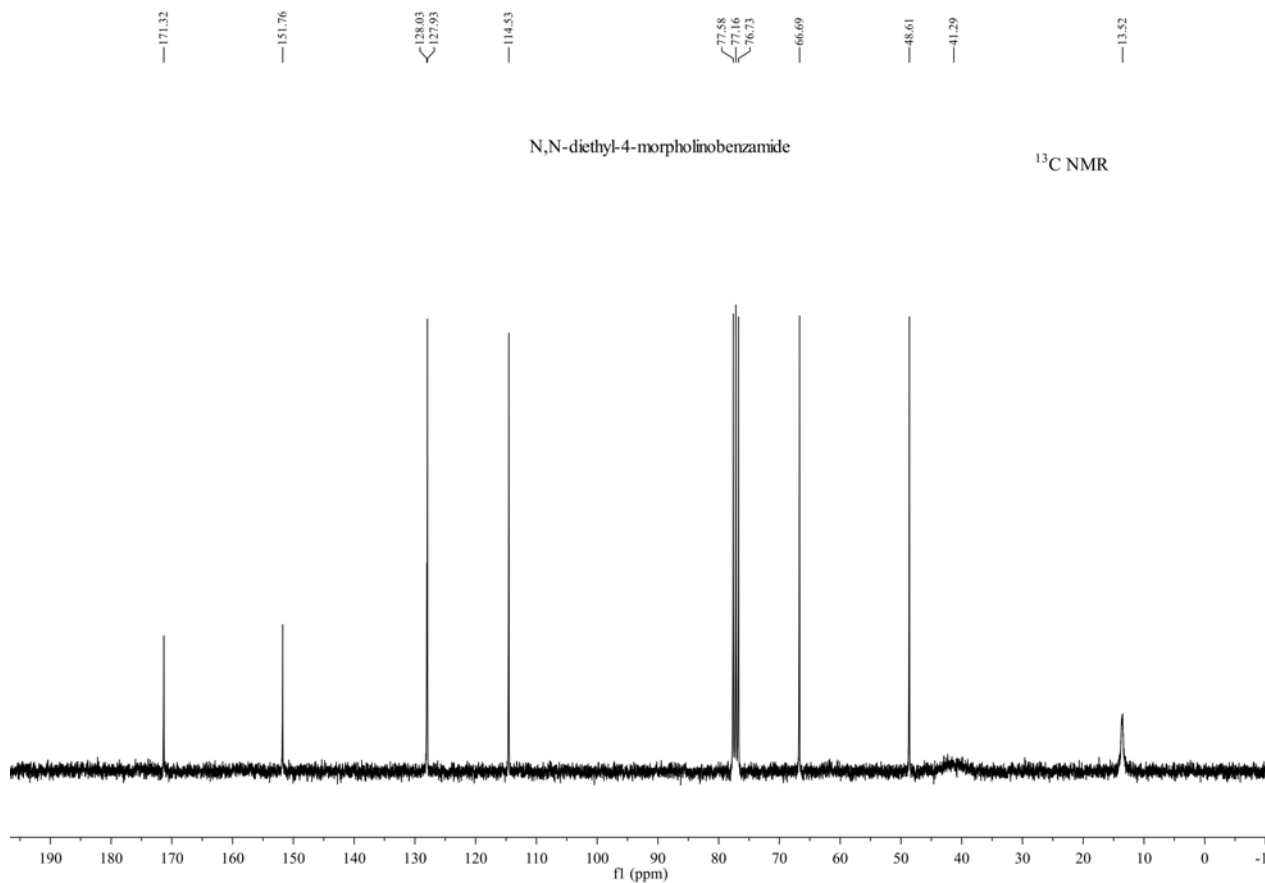
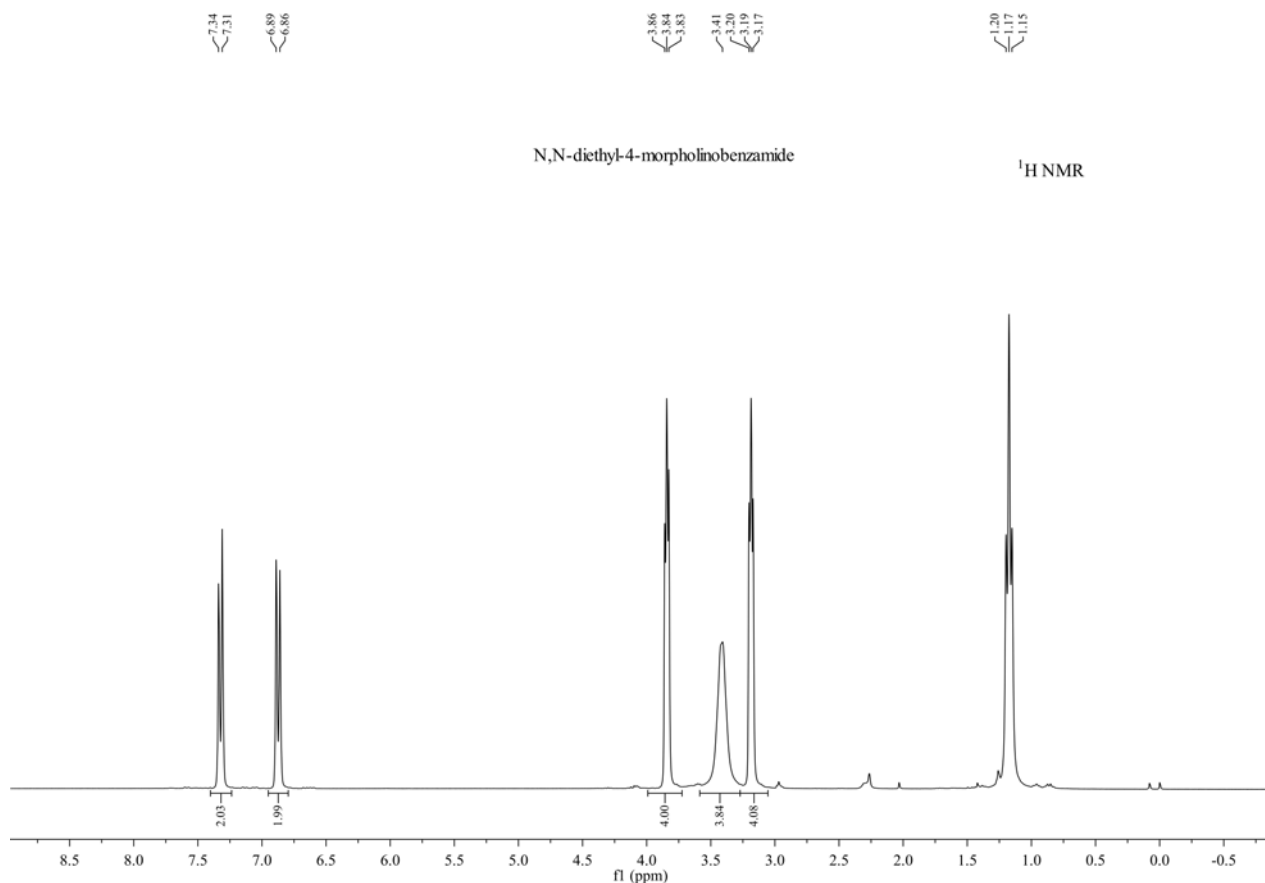
(9) 4-(4-Trifluoromethylphenyl)morpholine (**3i**)



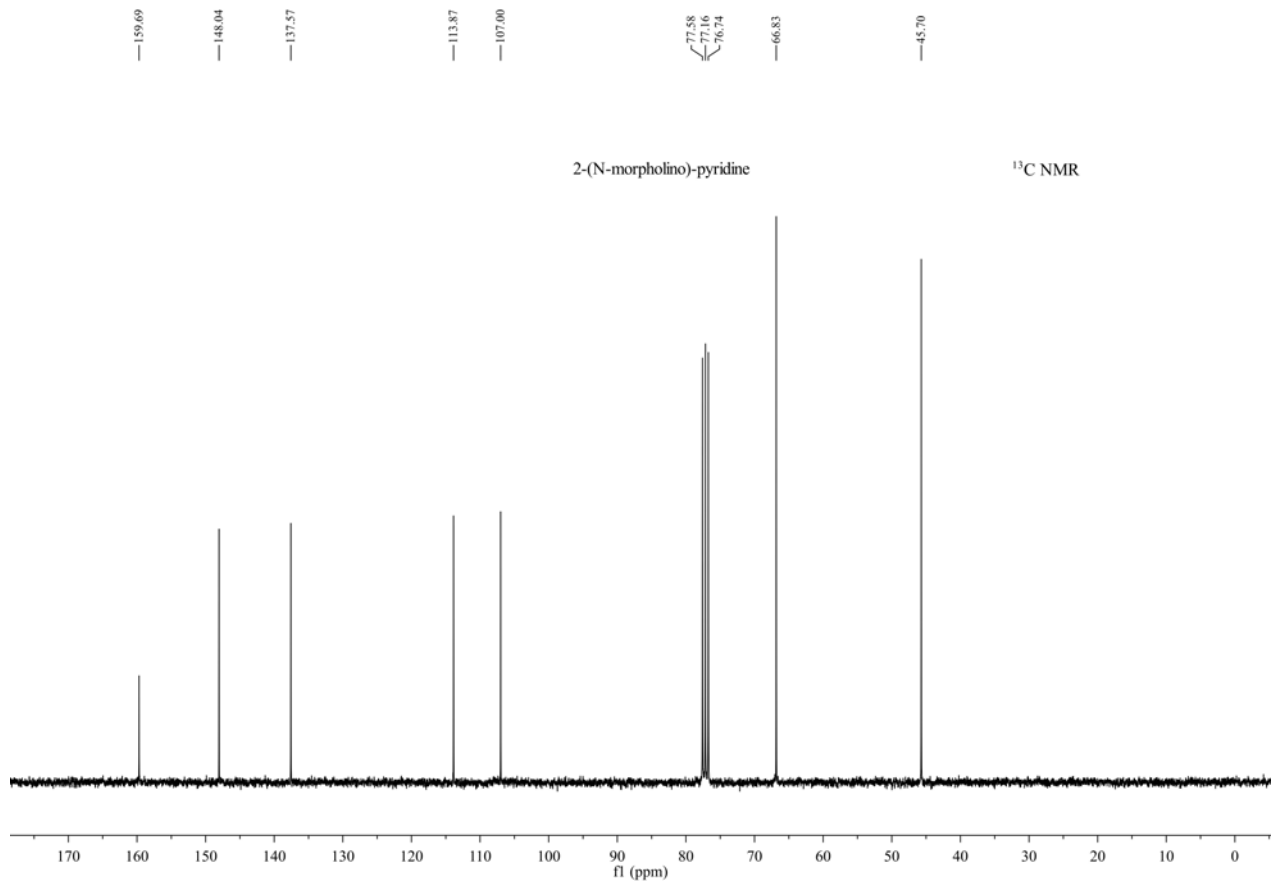
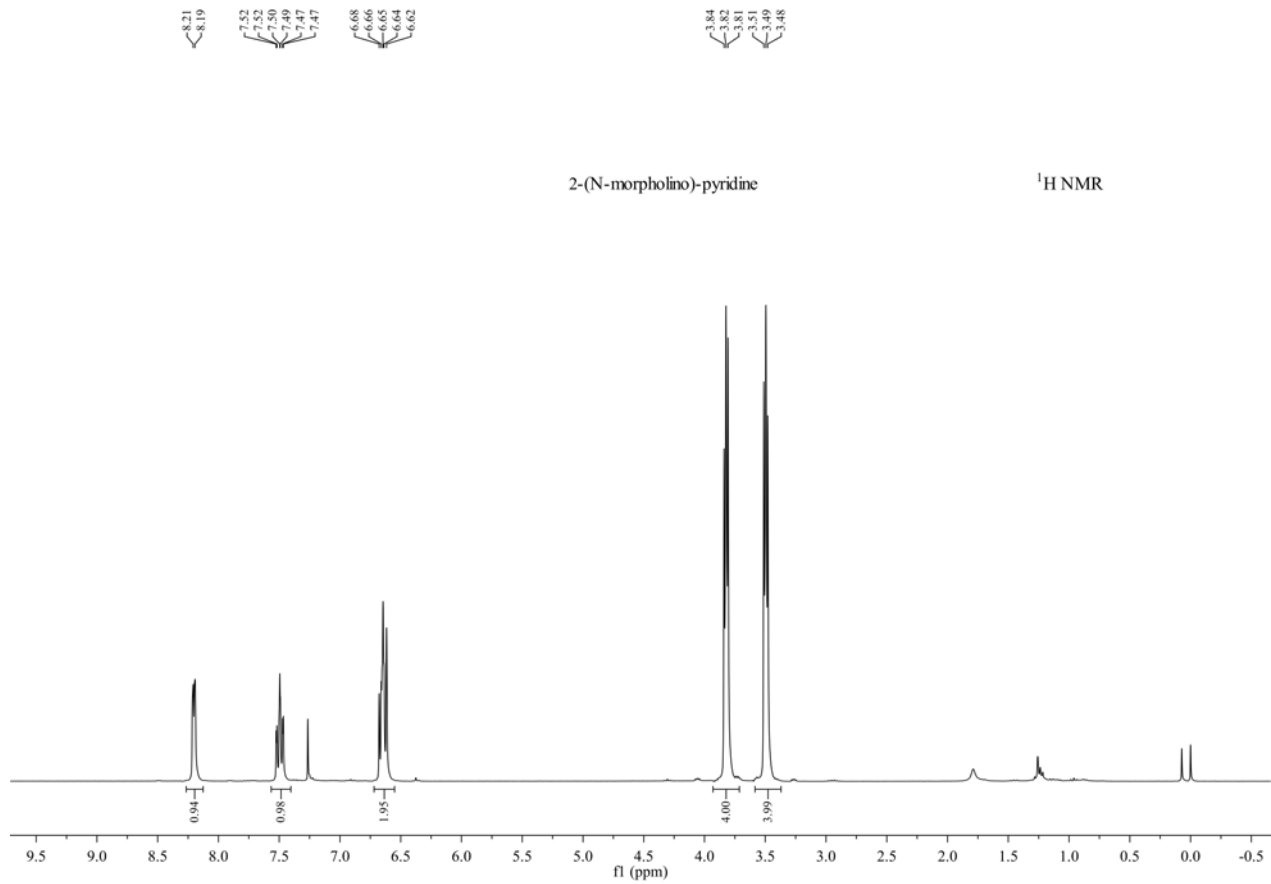
(10) (4-Morpholinophenyl)-phenyl-methanone (**3j**)



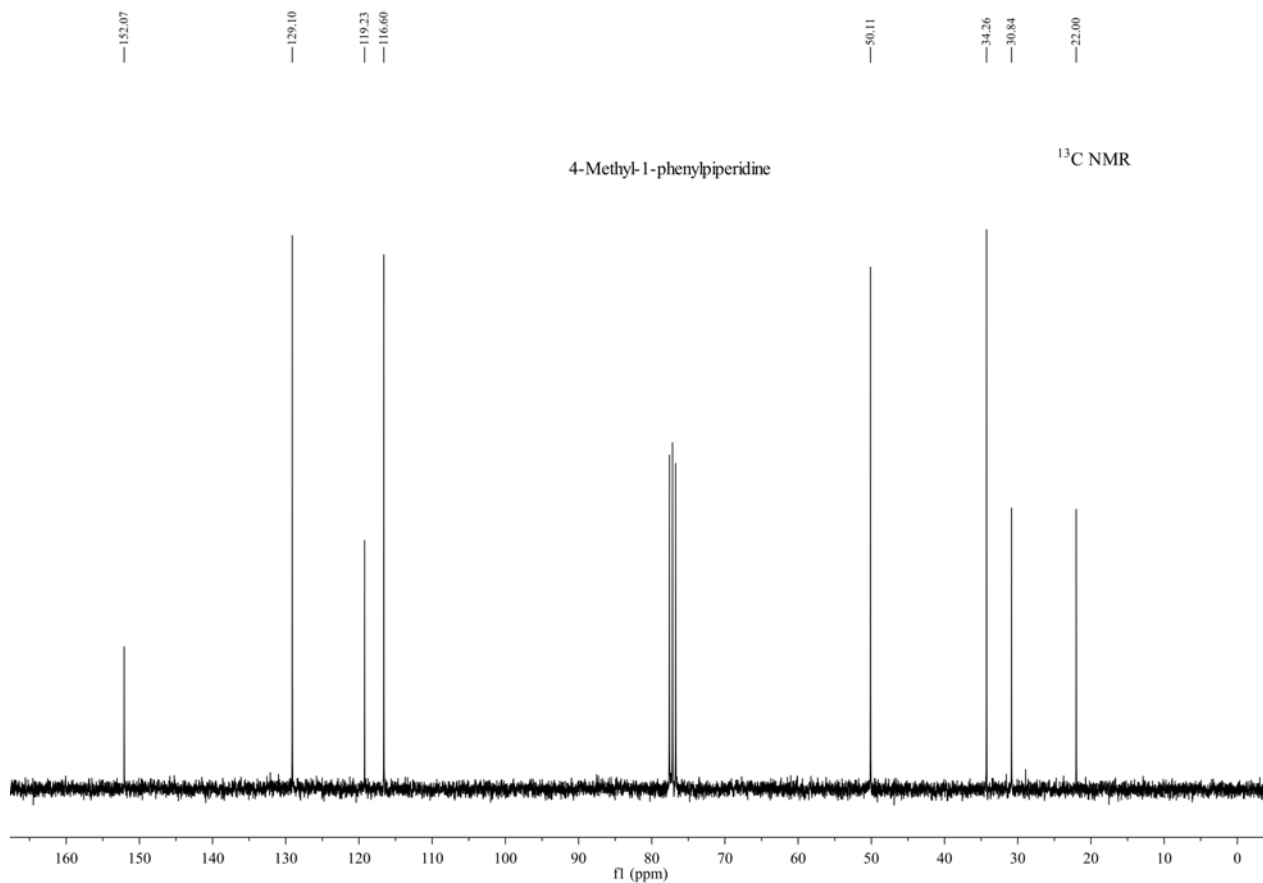
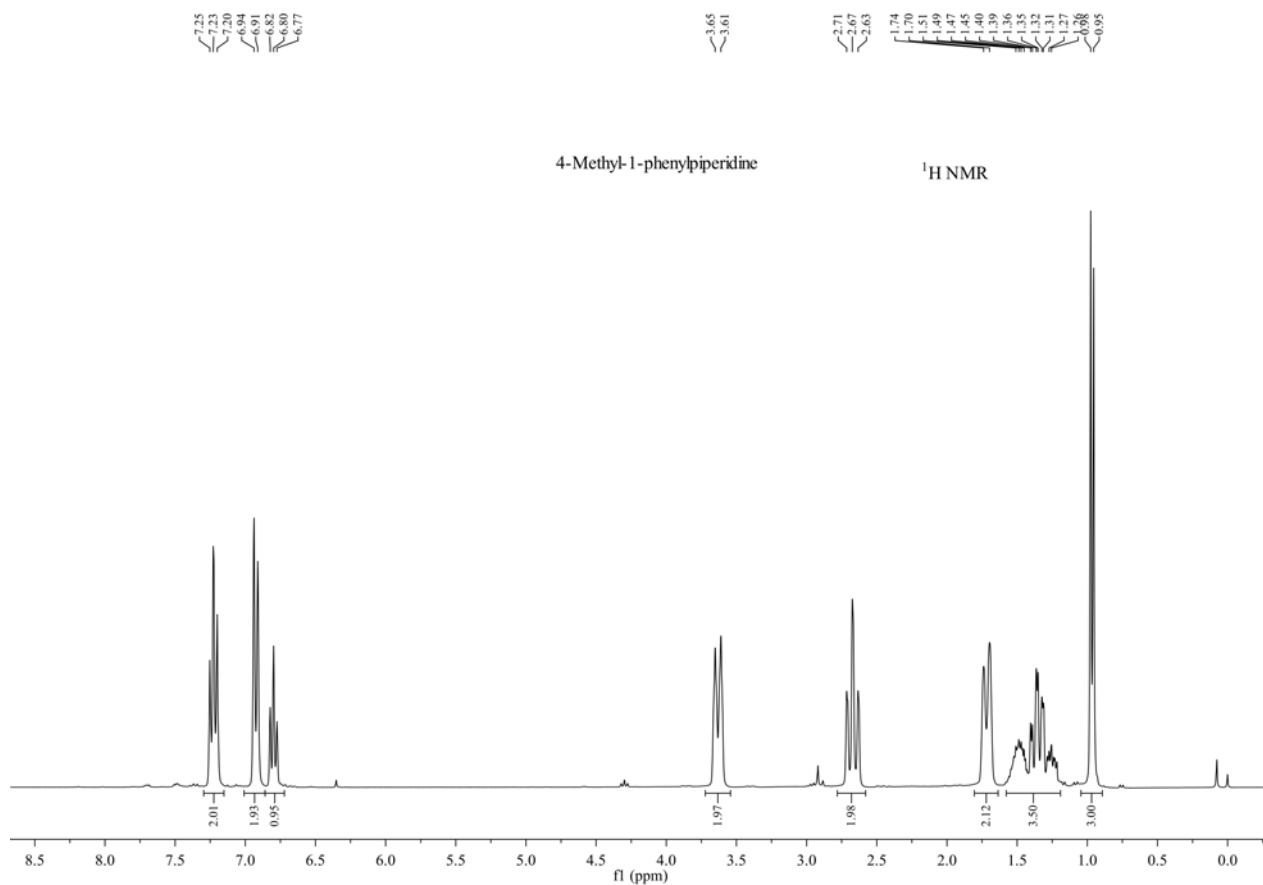
(11) *N,N*-Diethyl-4-morpholinobenzamide (**3k**)



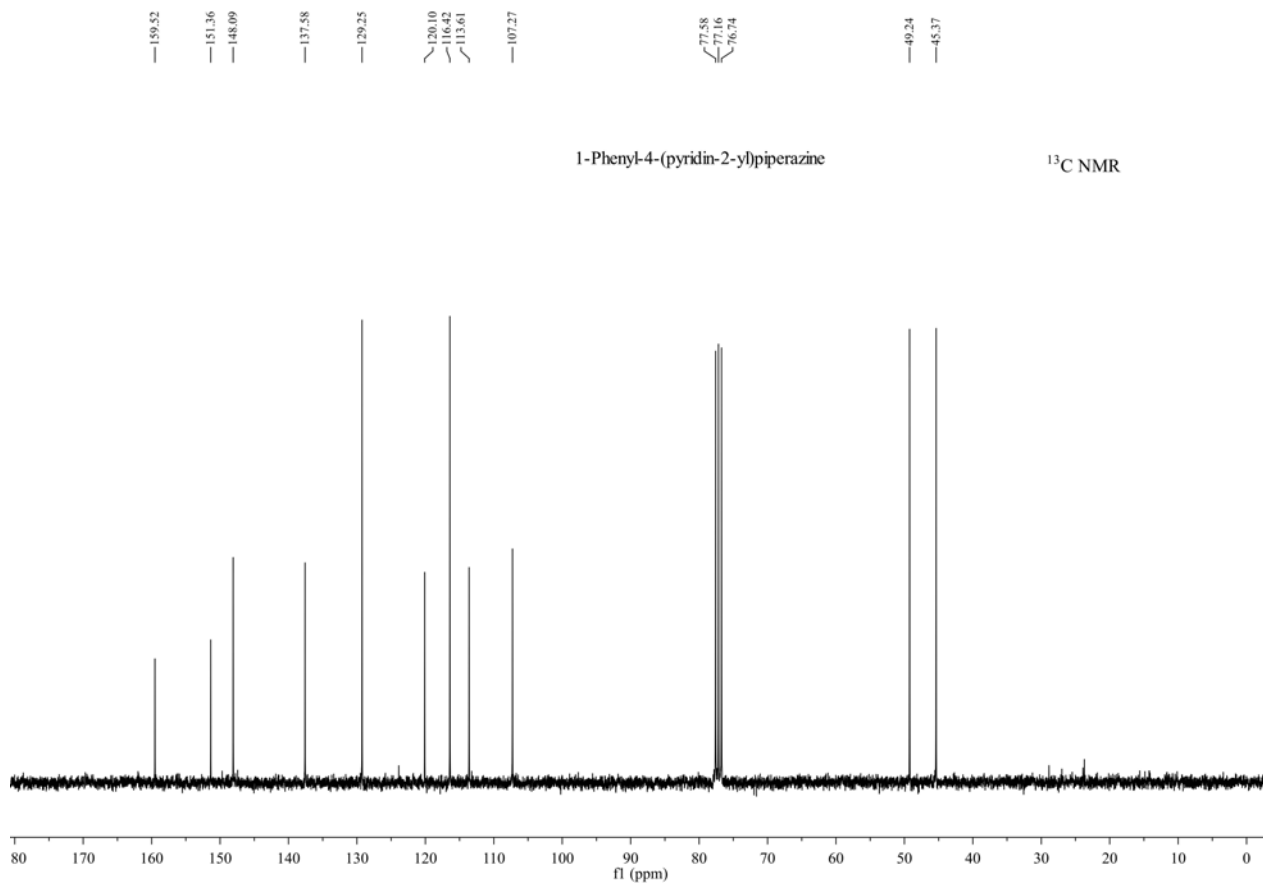
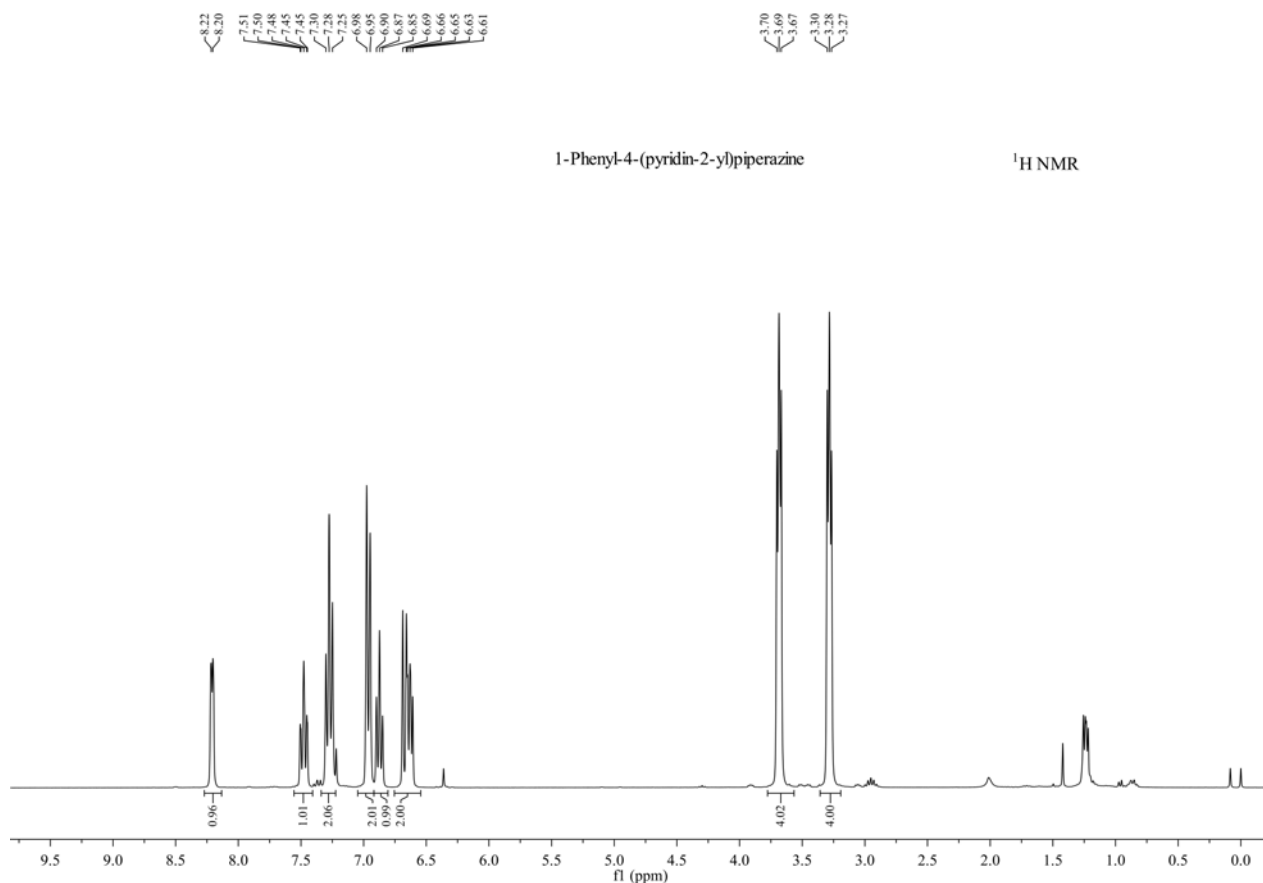
(12) 4-(Pyridin-2-yl)morpholine (**3l**)



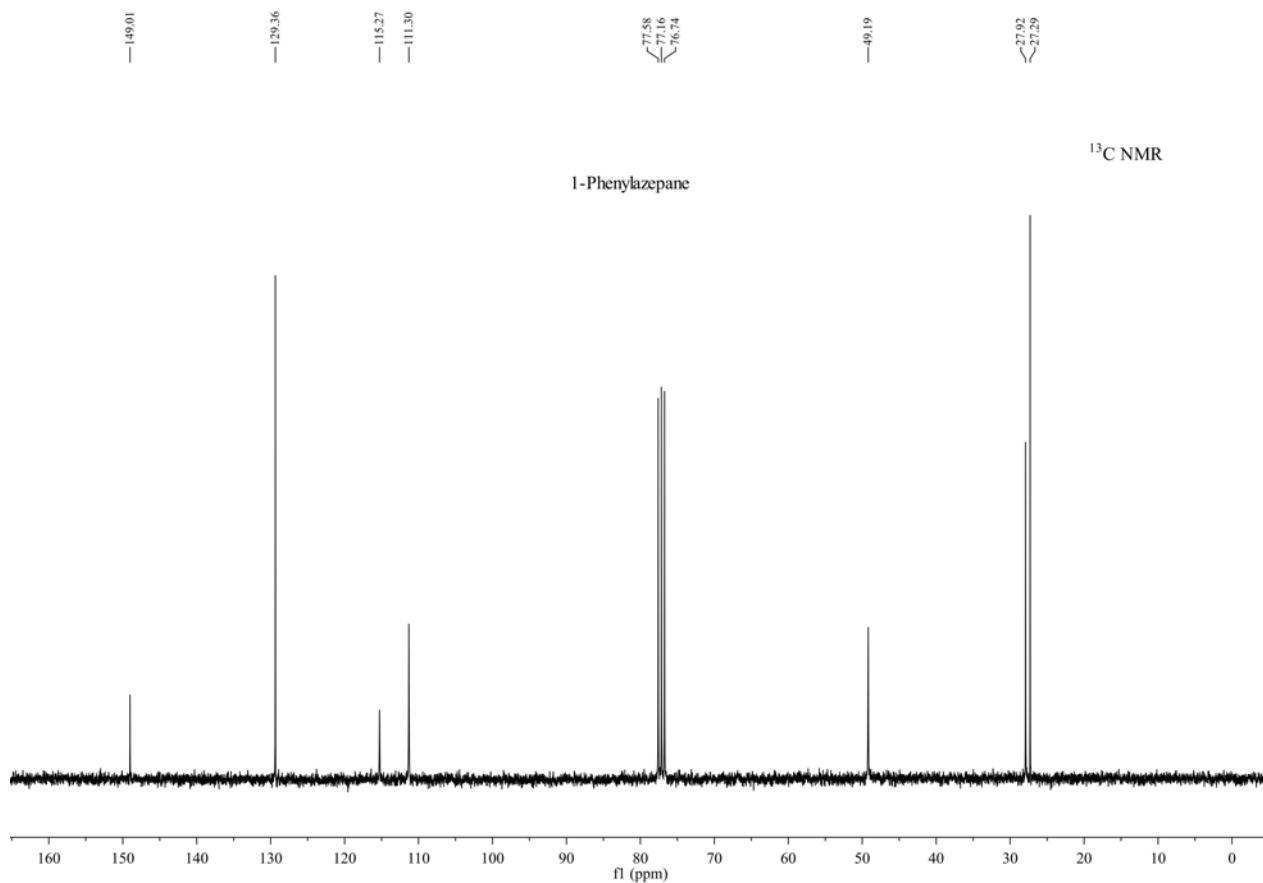
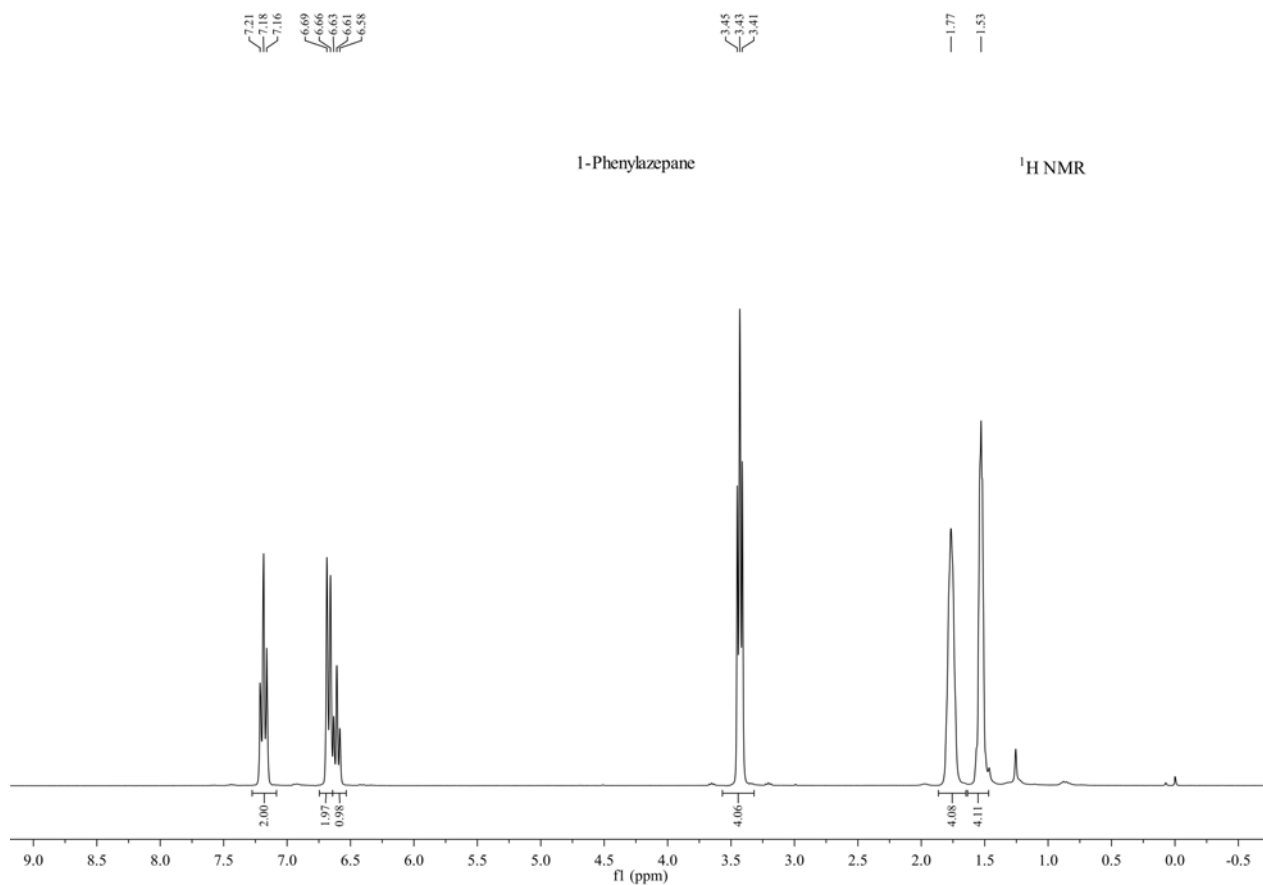
(13) 4-Methyl-1-phenylpiperidine (**4a**)



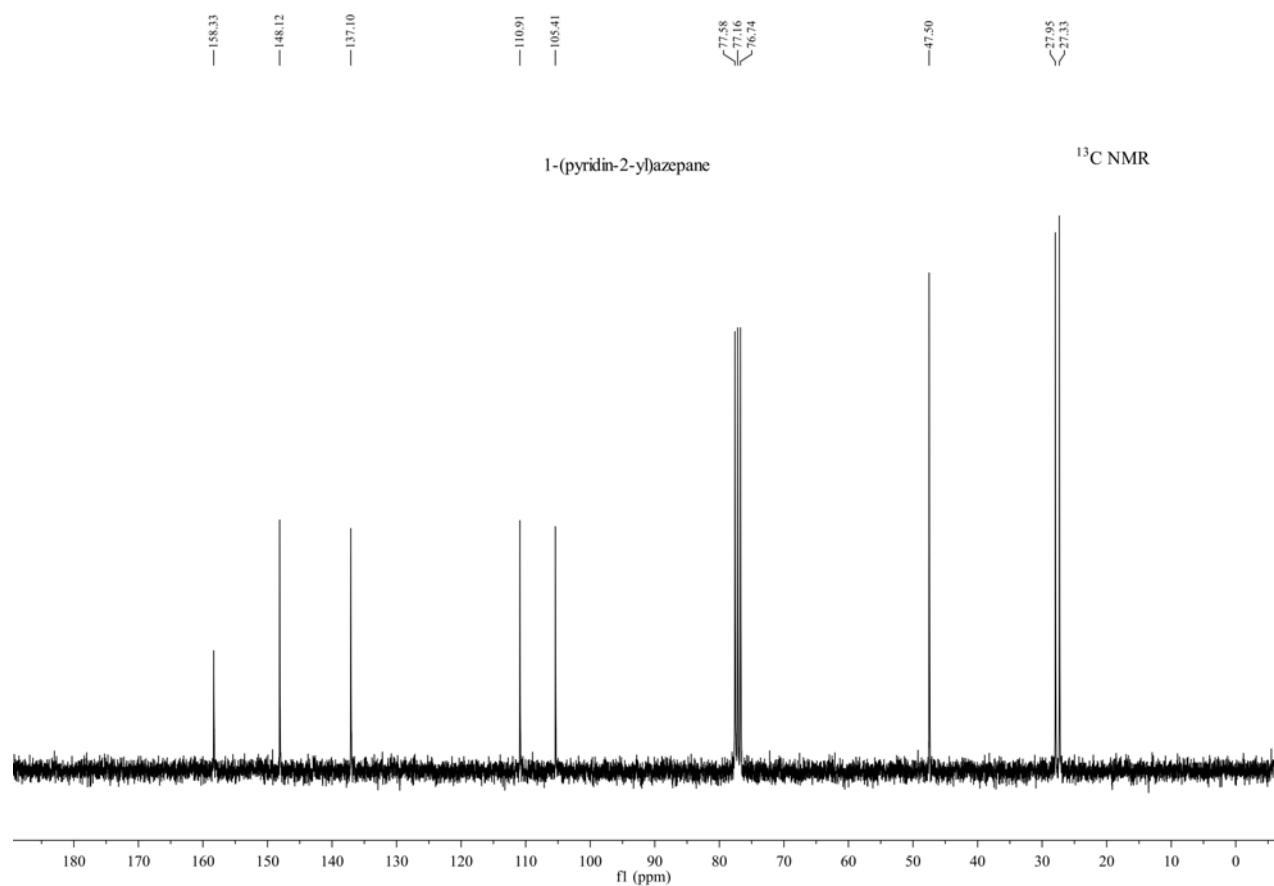
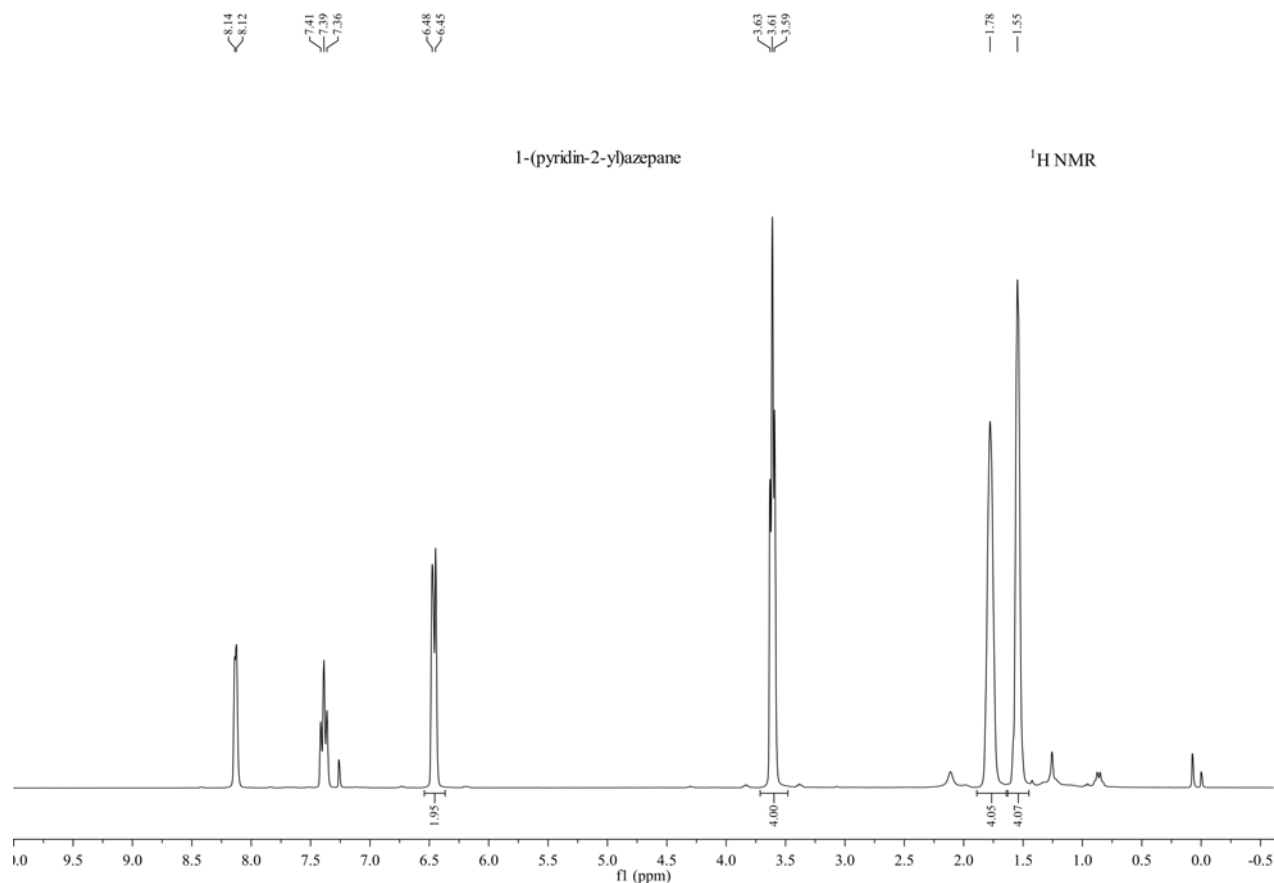
(14) 1-Phenyl-4-(pyridin-2-yl)piperazine (**4b**)



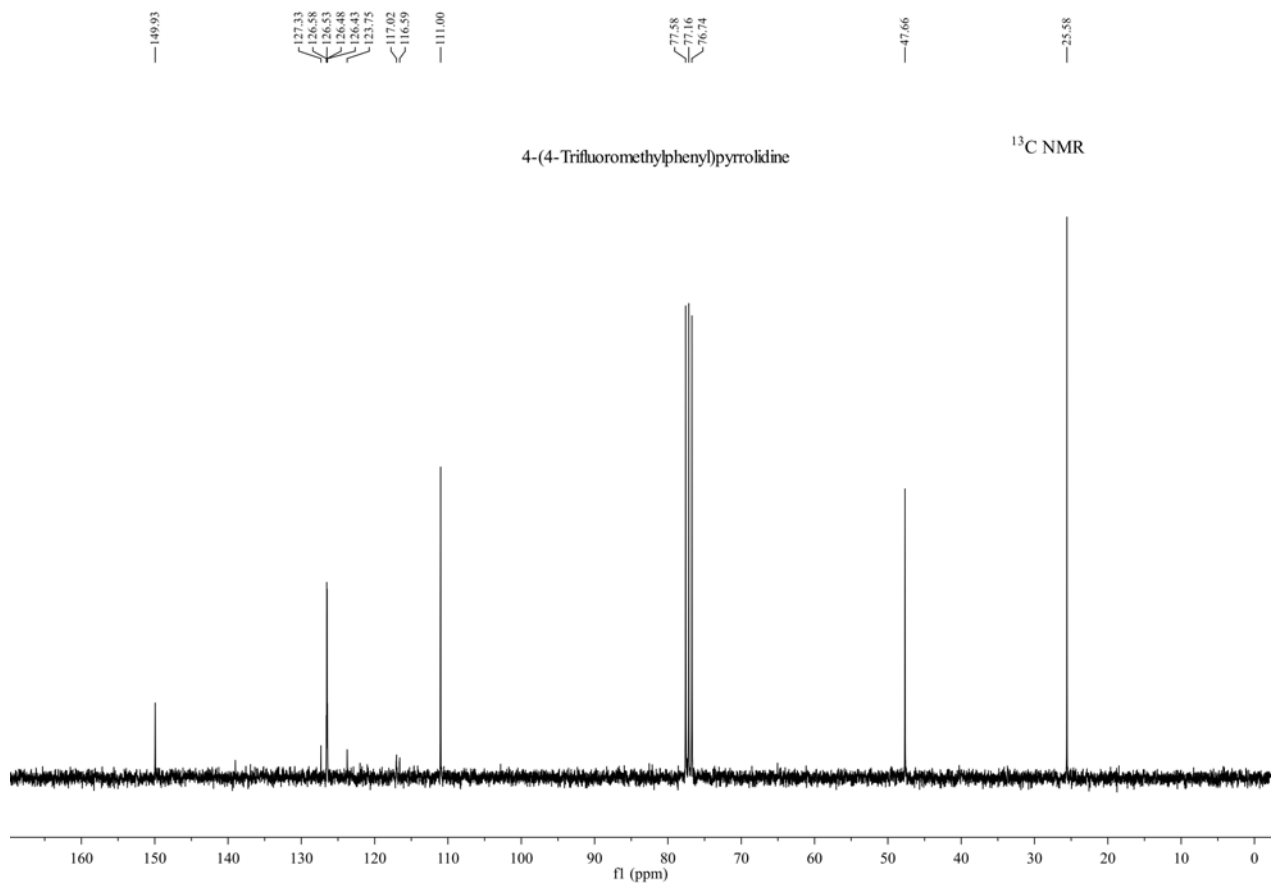
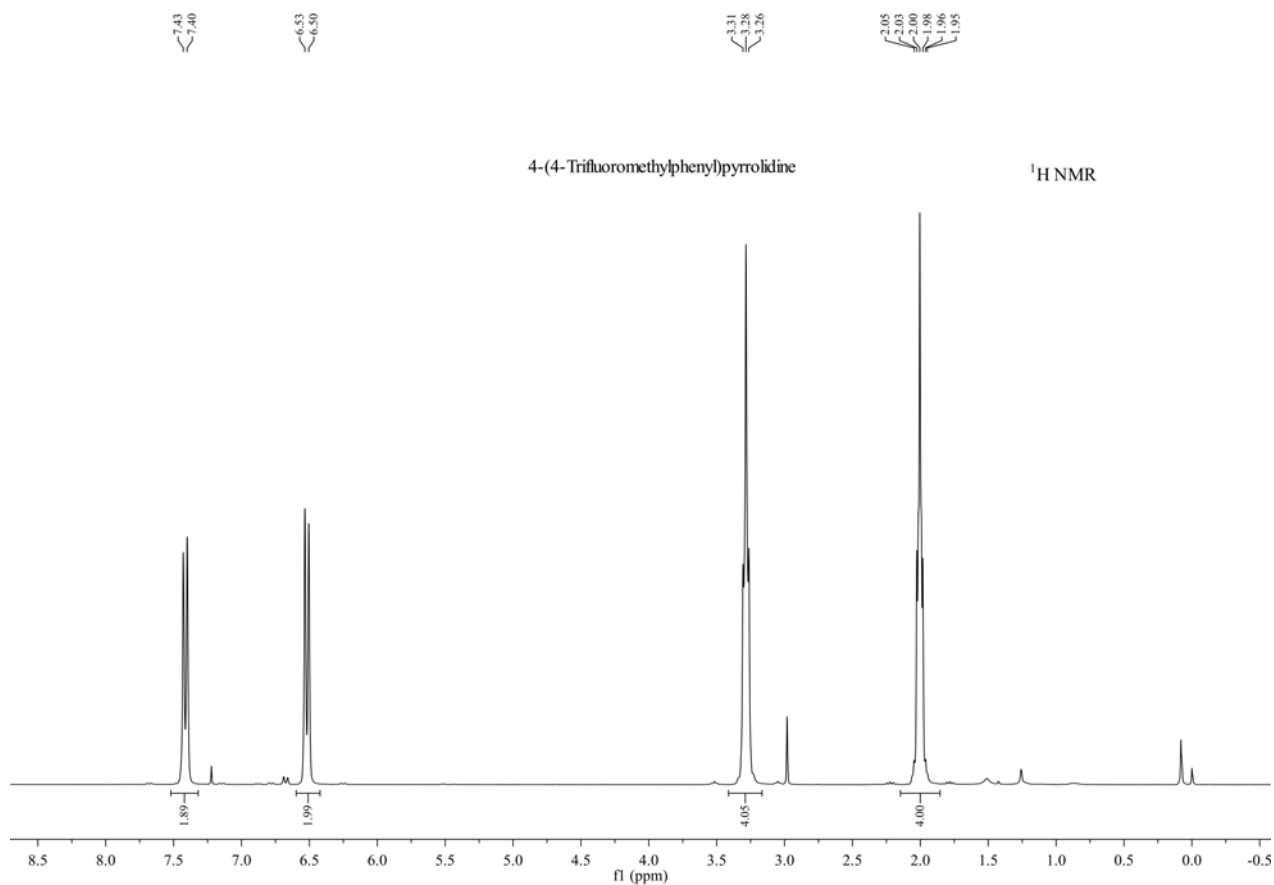
(15) 1-Phenylazepane (**4c**)



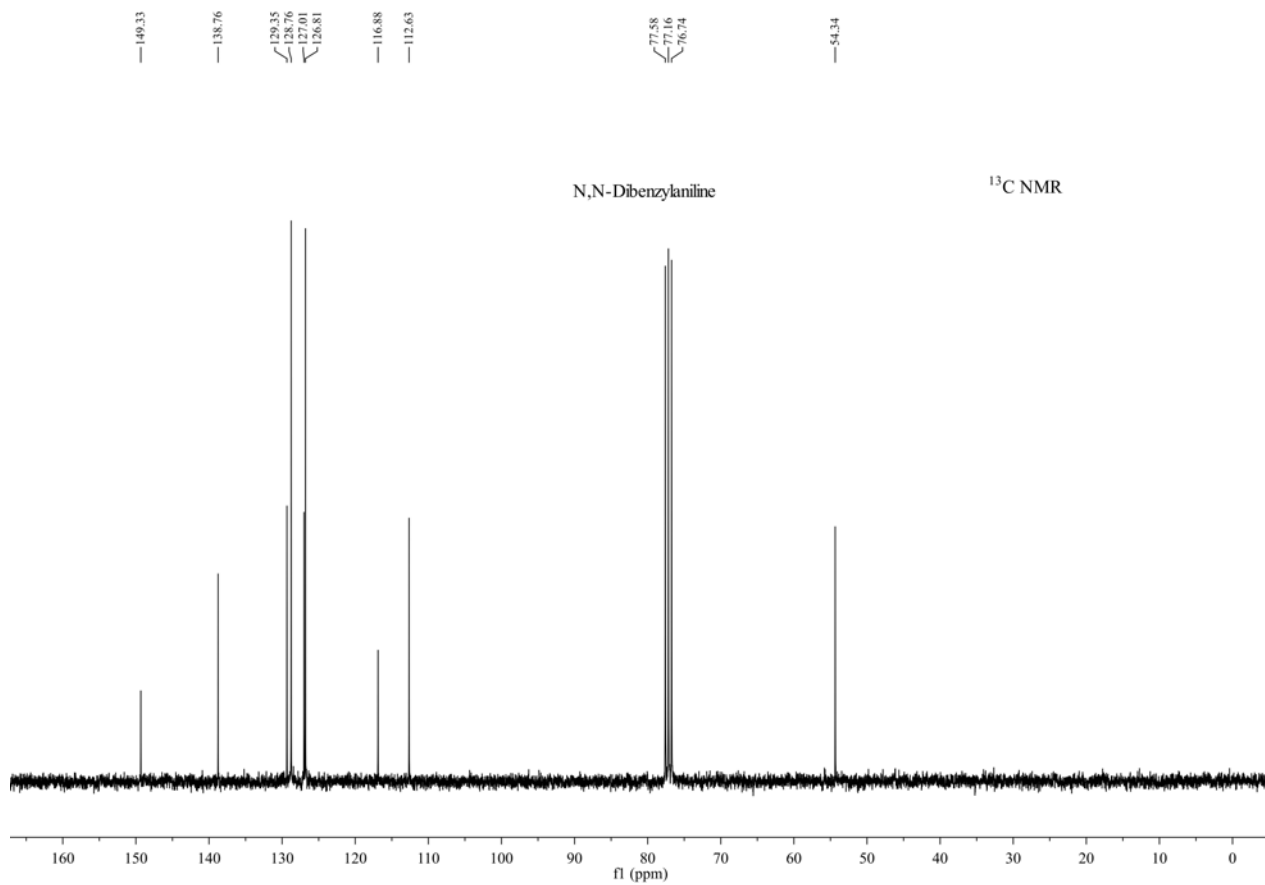
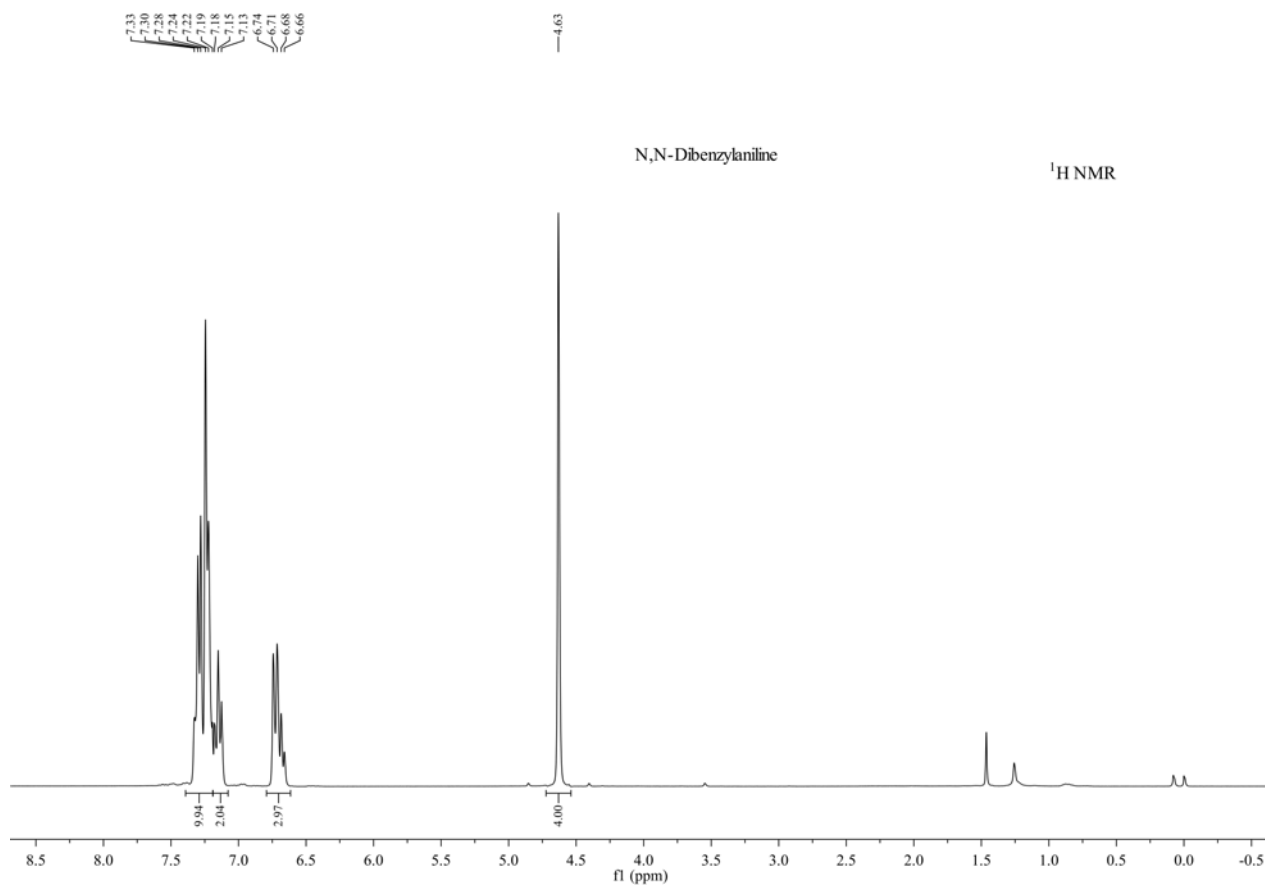
(16) 1-(Pyridin-2-yl)azepane (**4d**)



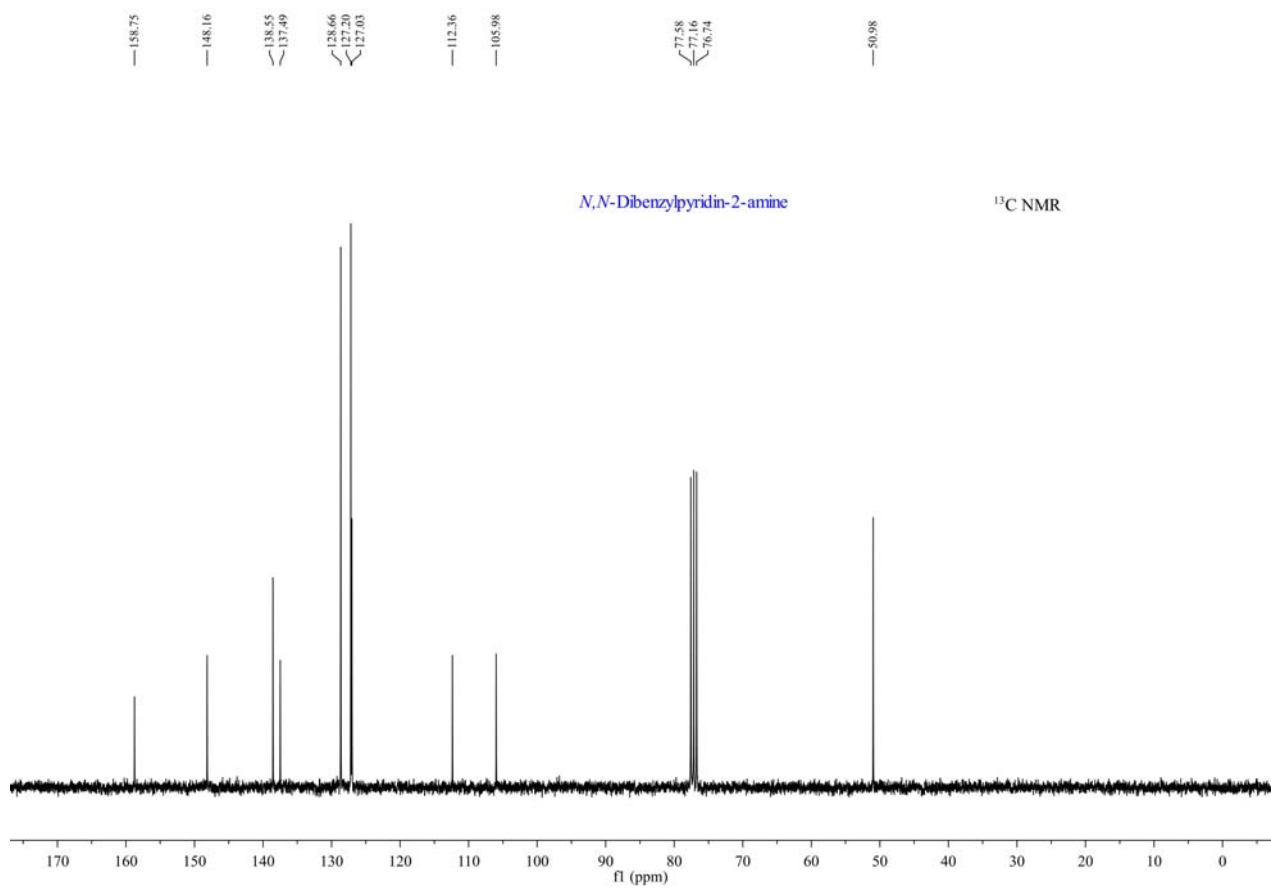
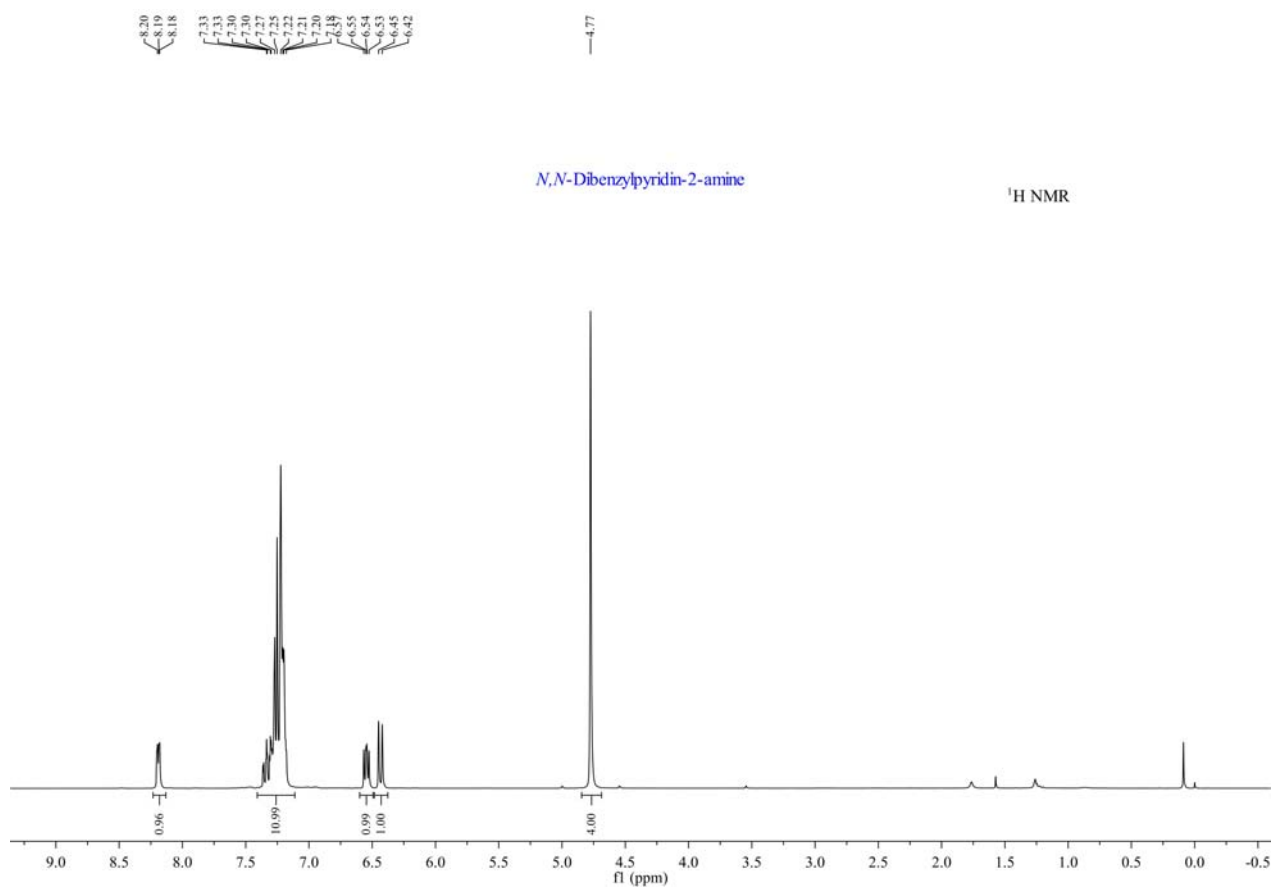
(17) 4-(4-Trifluoromethylphenyl)pyrrolidine (**4e**)



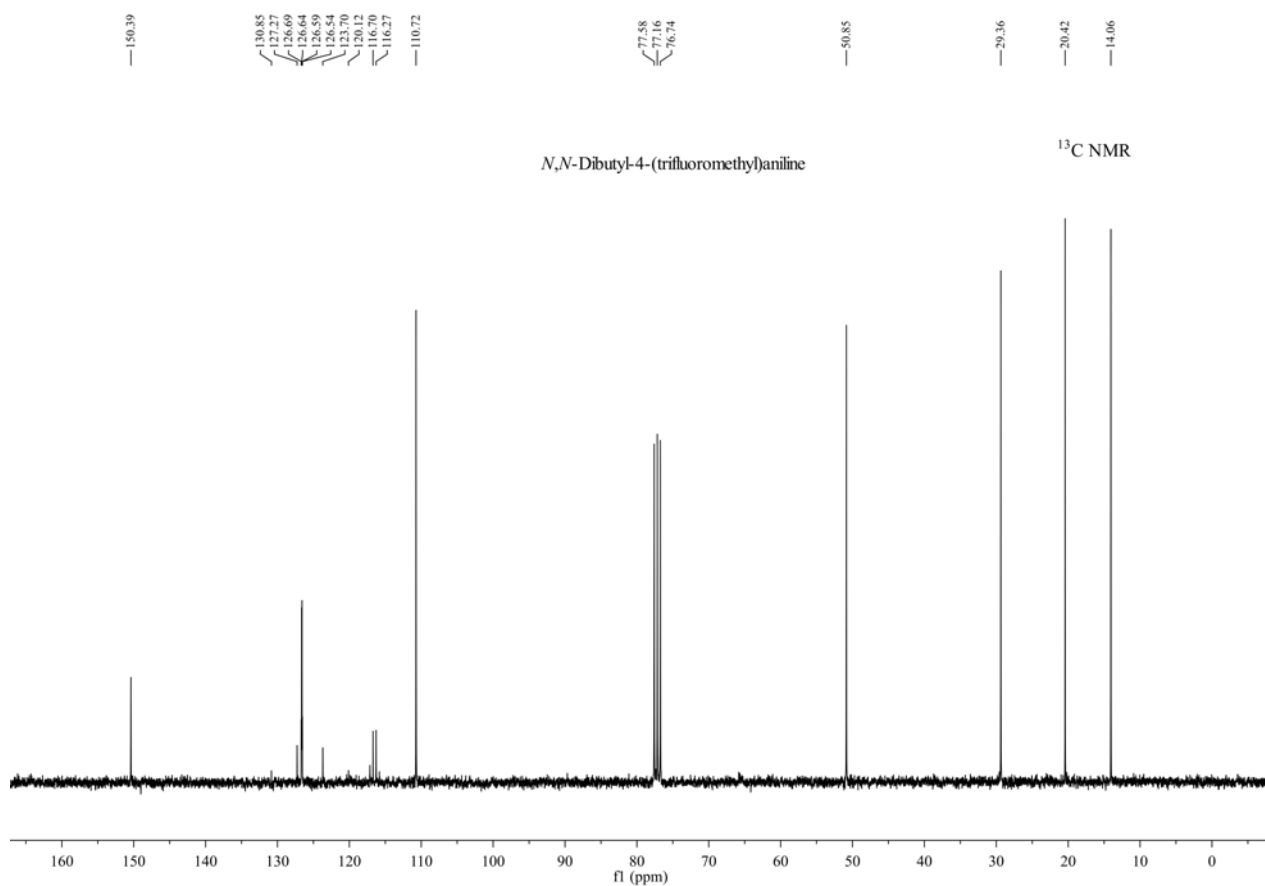
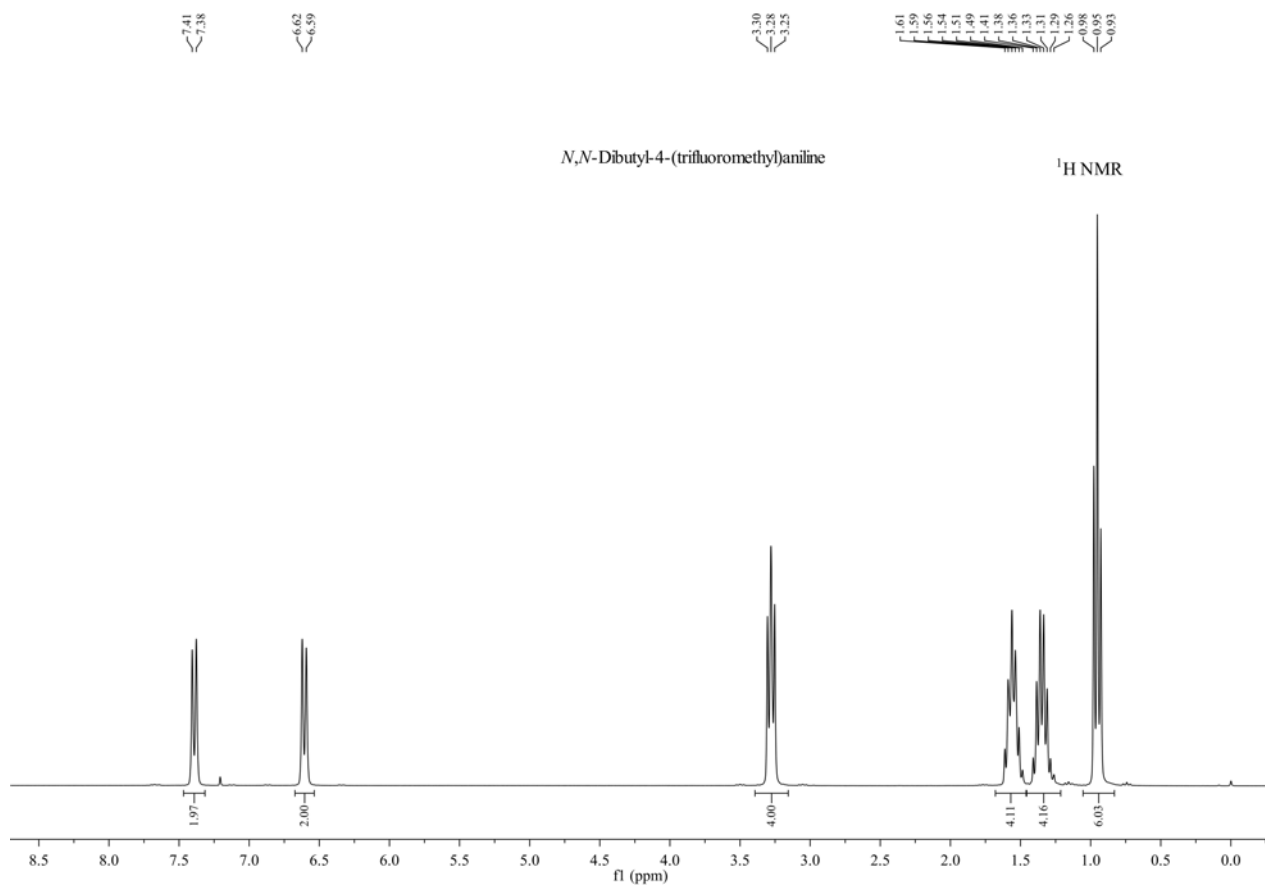
(18) *N,N*-Dibenzylaniline (**4f**)



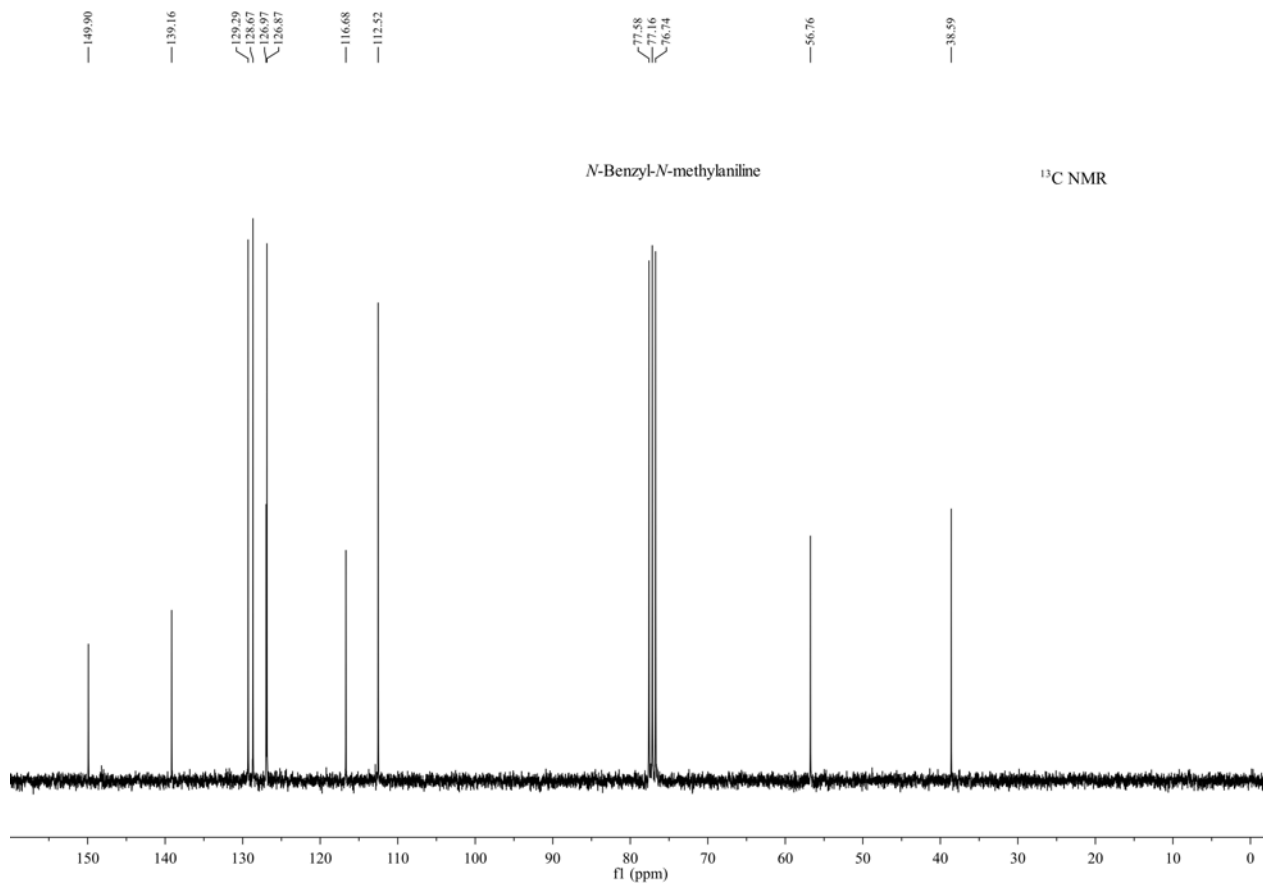
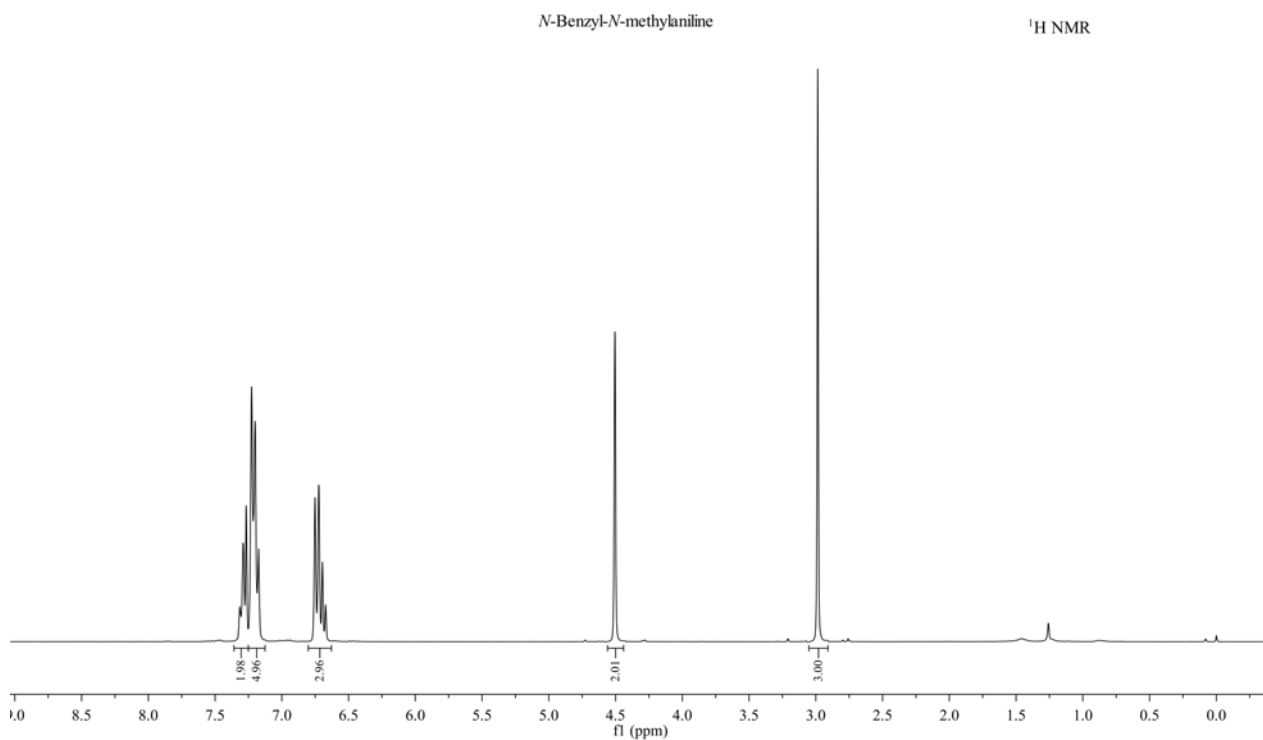
(19) *N,N*-Dibenzylpyridin-2-amine (**4g**)



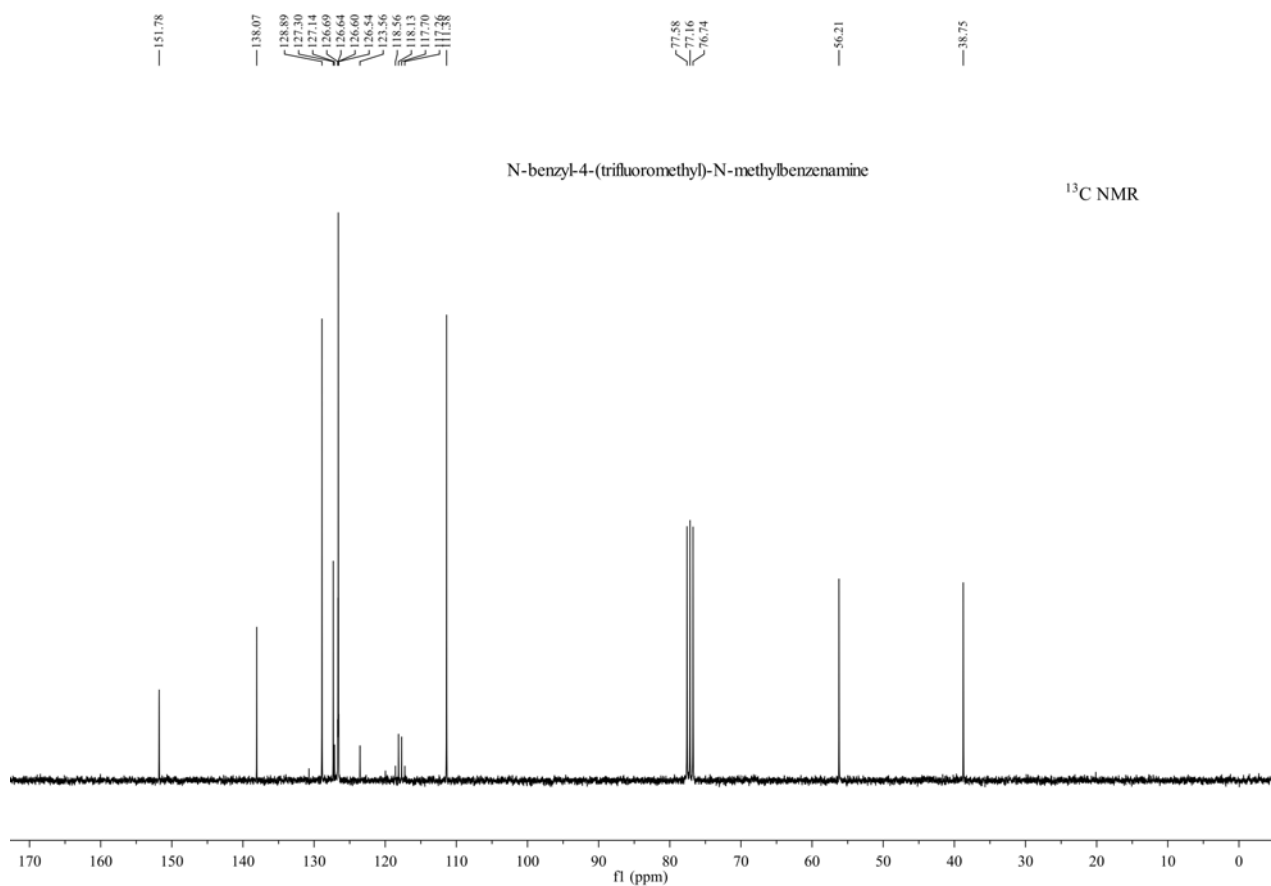
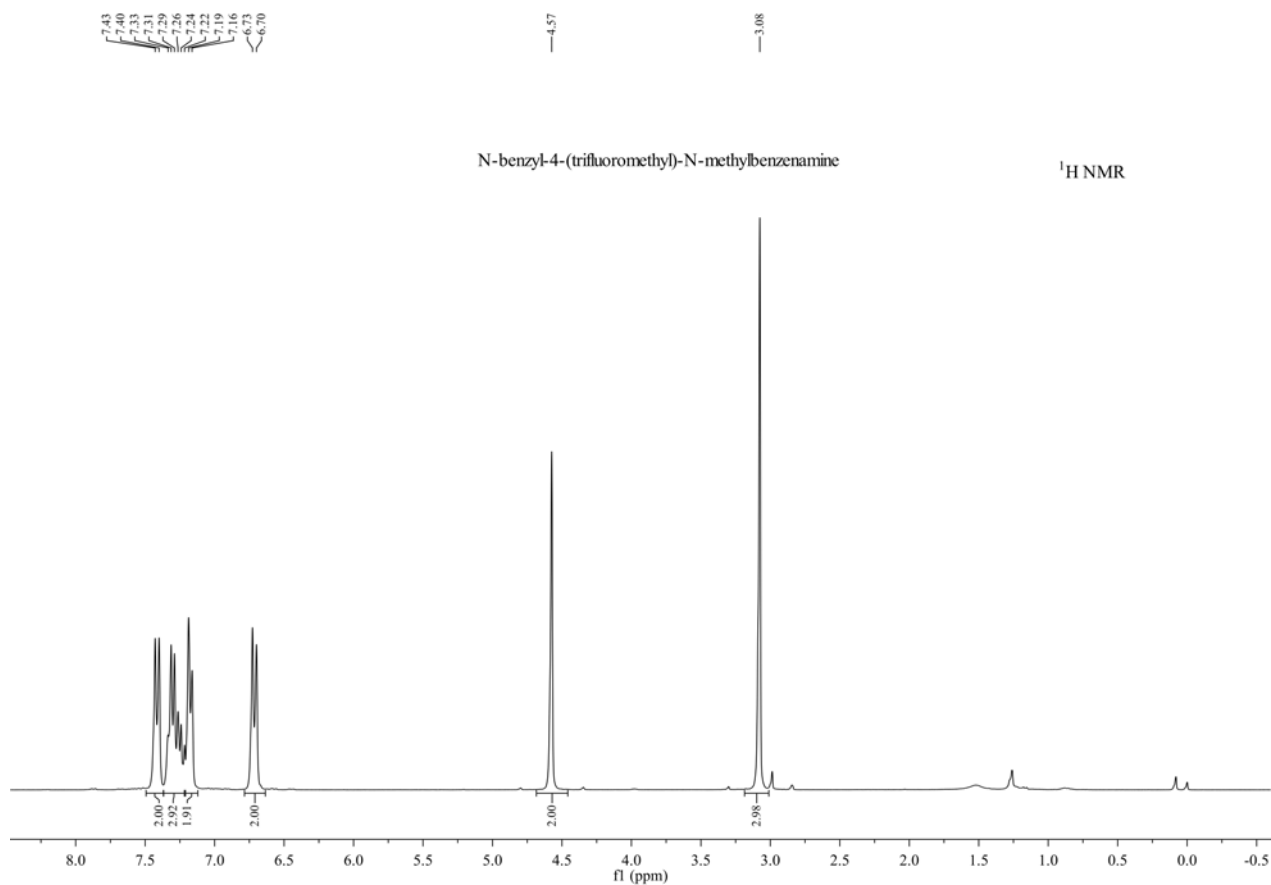
(20) *N,N*-Dibutyl-4-(trifluoromethyl)aniline (**4h**)



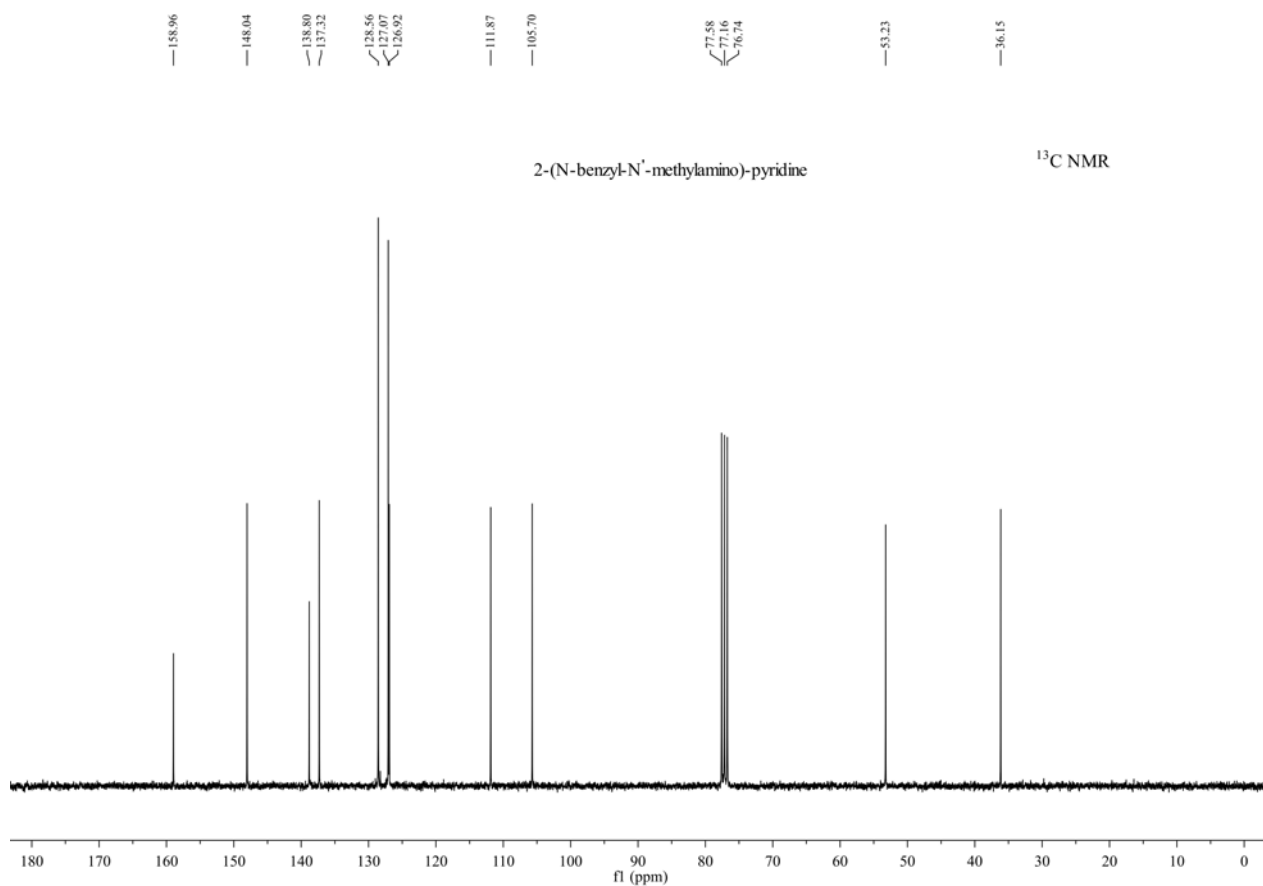
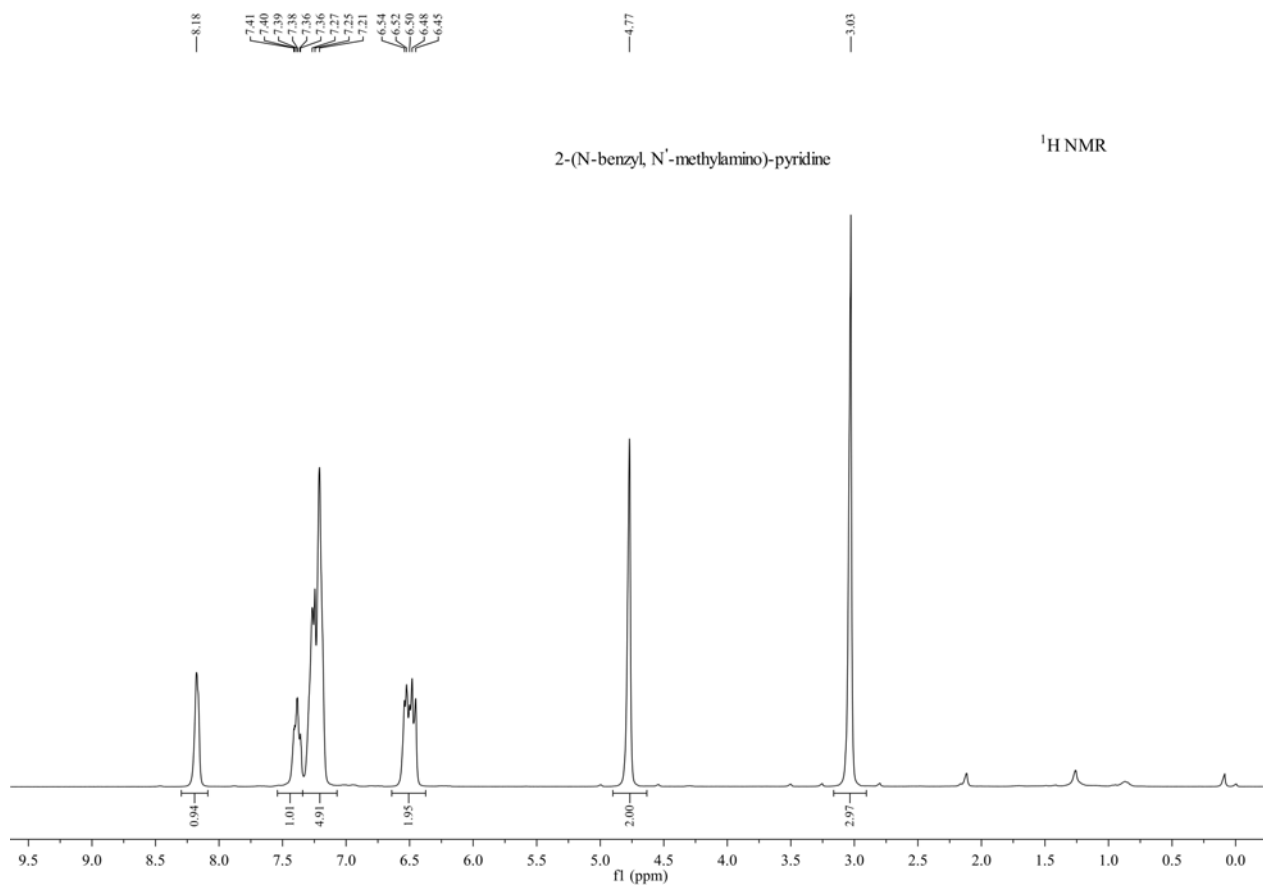
(21) *N*-Benzyl-*N*-methylaniline (**4i**)



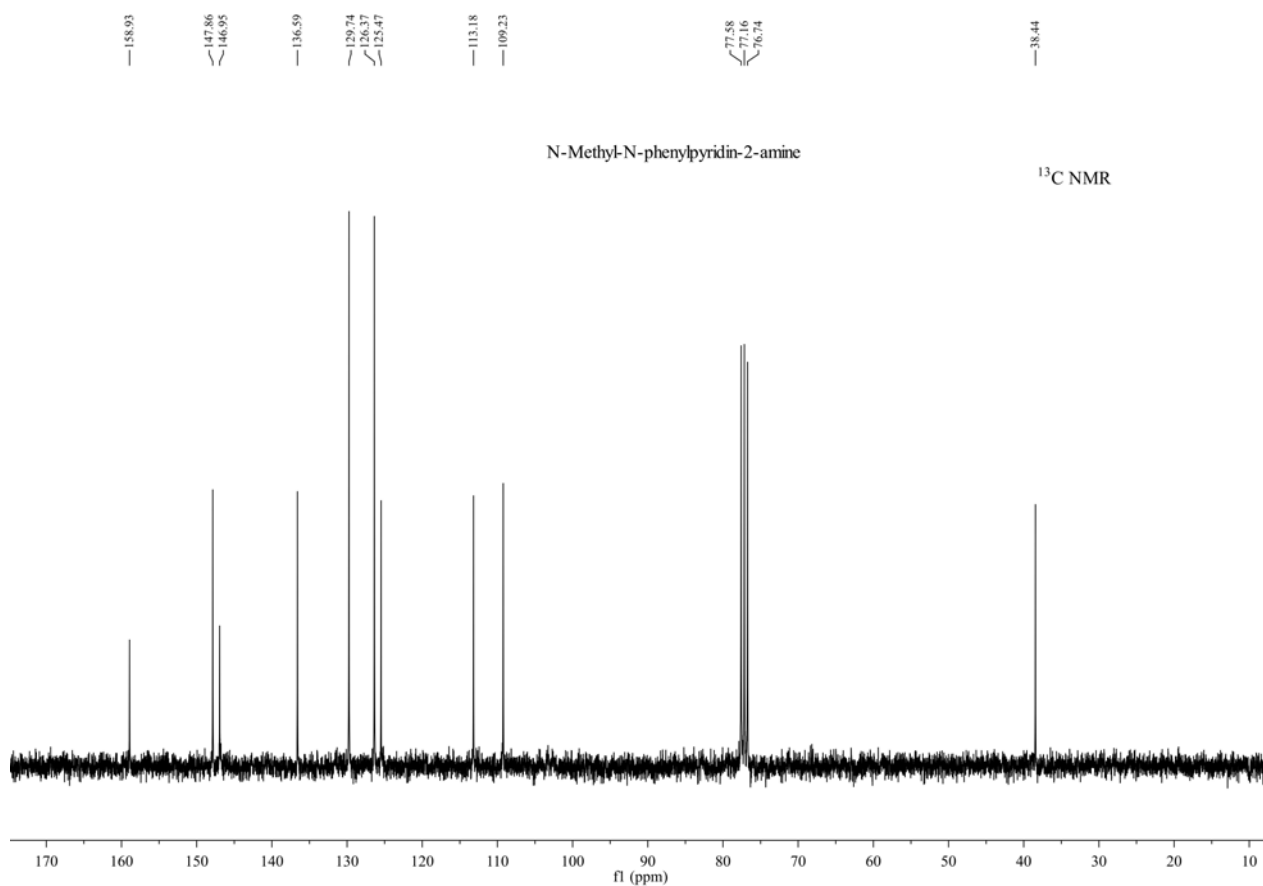
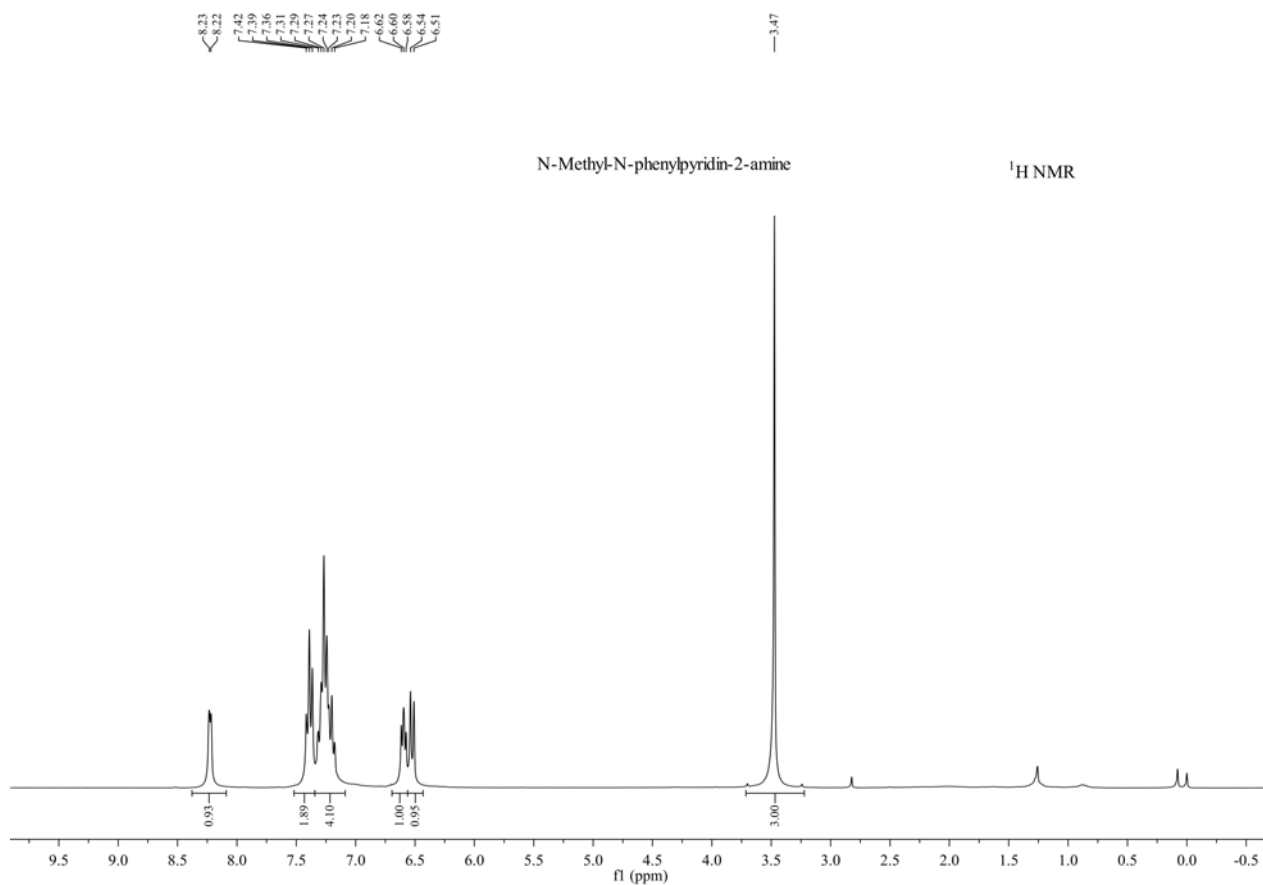
(22) *N*-Benzyl-*N*-methyl-4-(trifluoromethyl)aniline (**4j**)



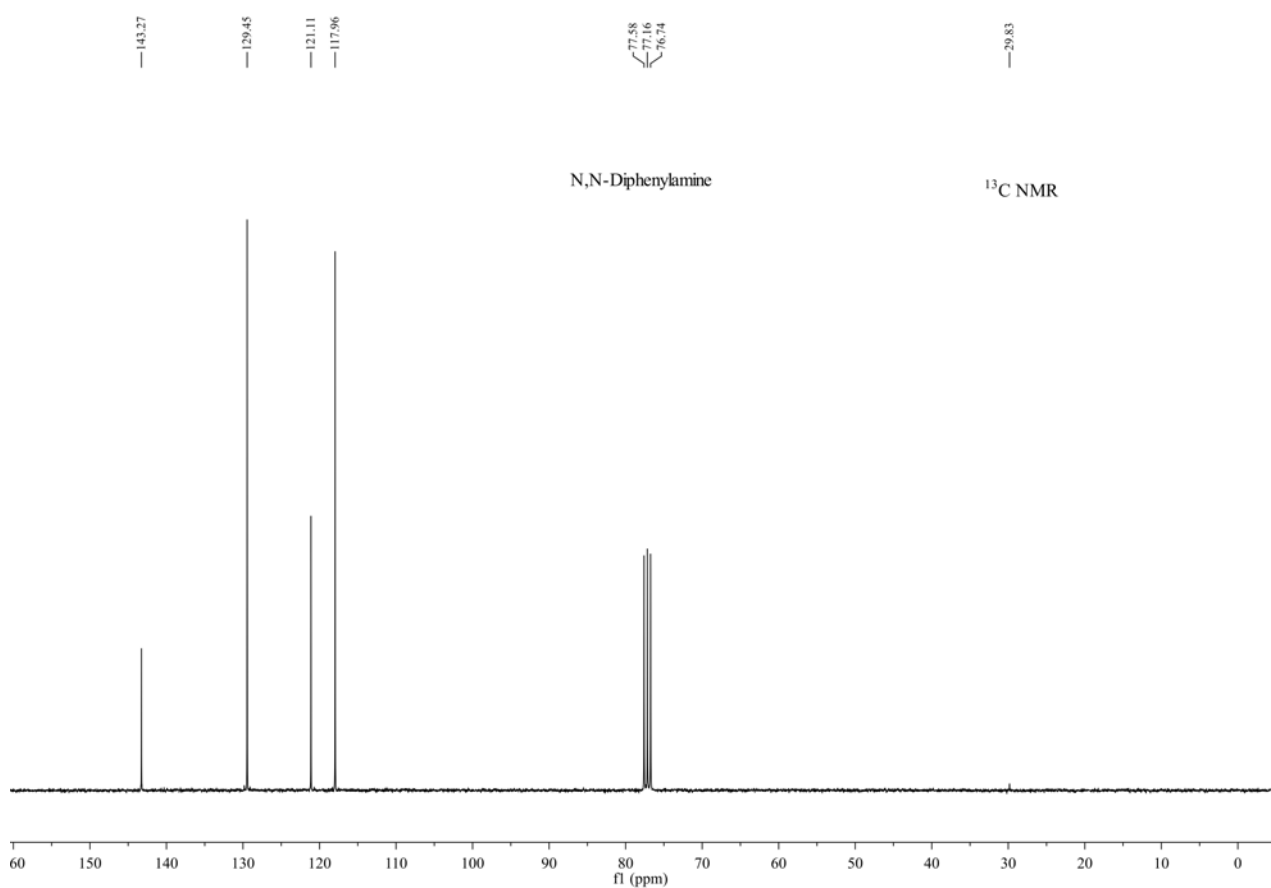
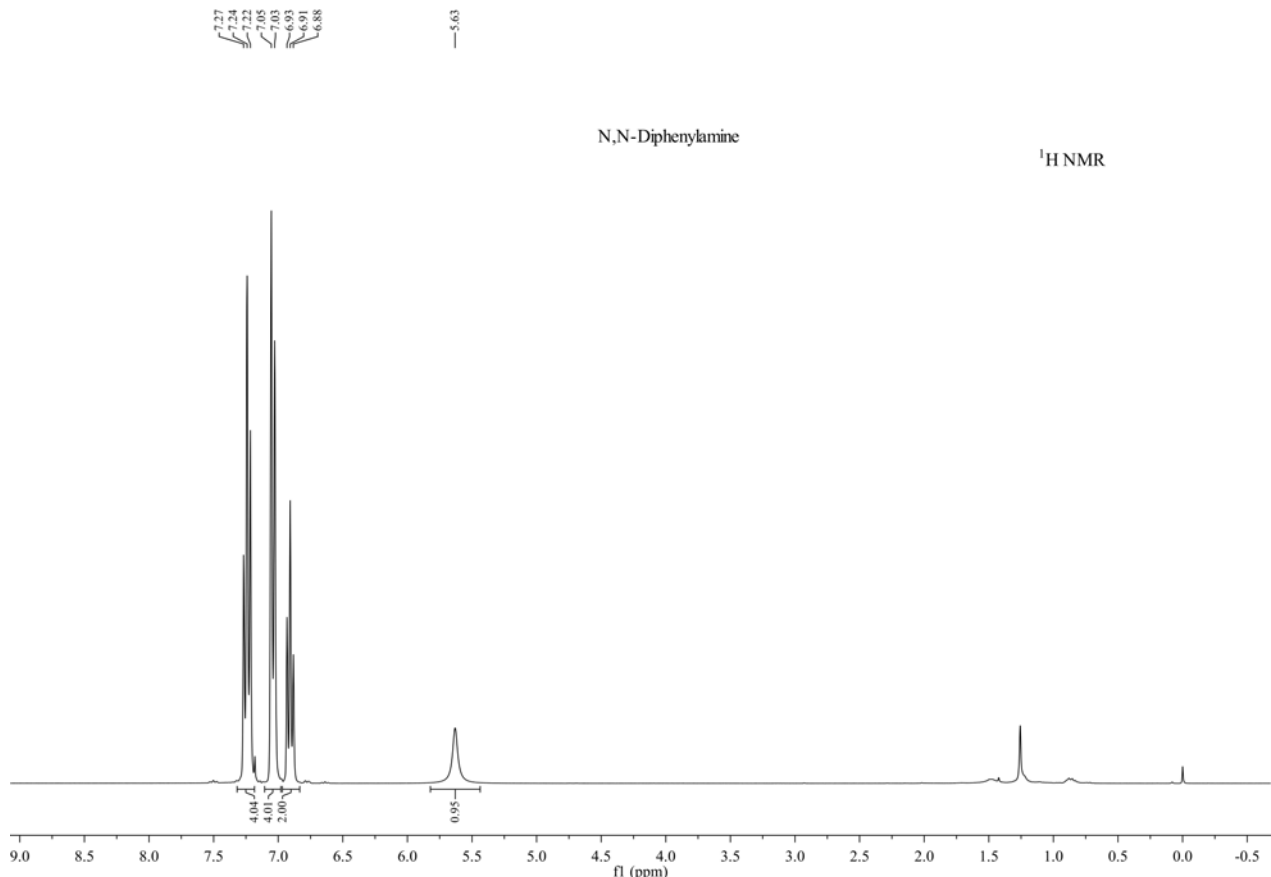
(23) *N*-Benzyl-*N*-methyl-pyridin-2-amine (**4k**)



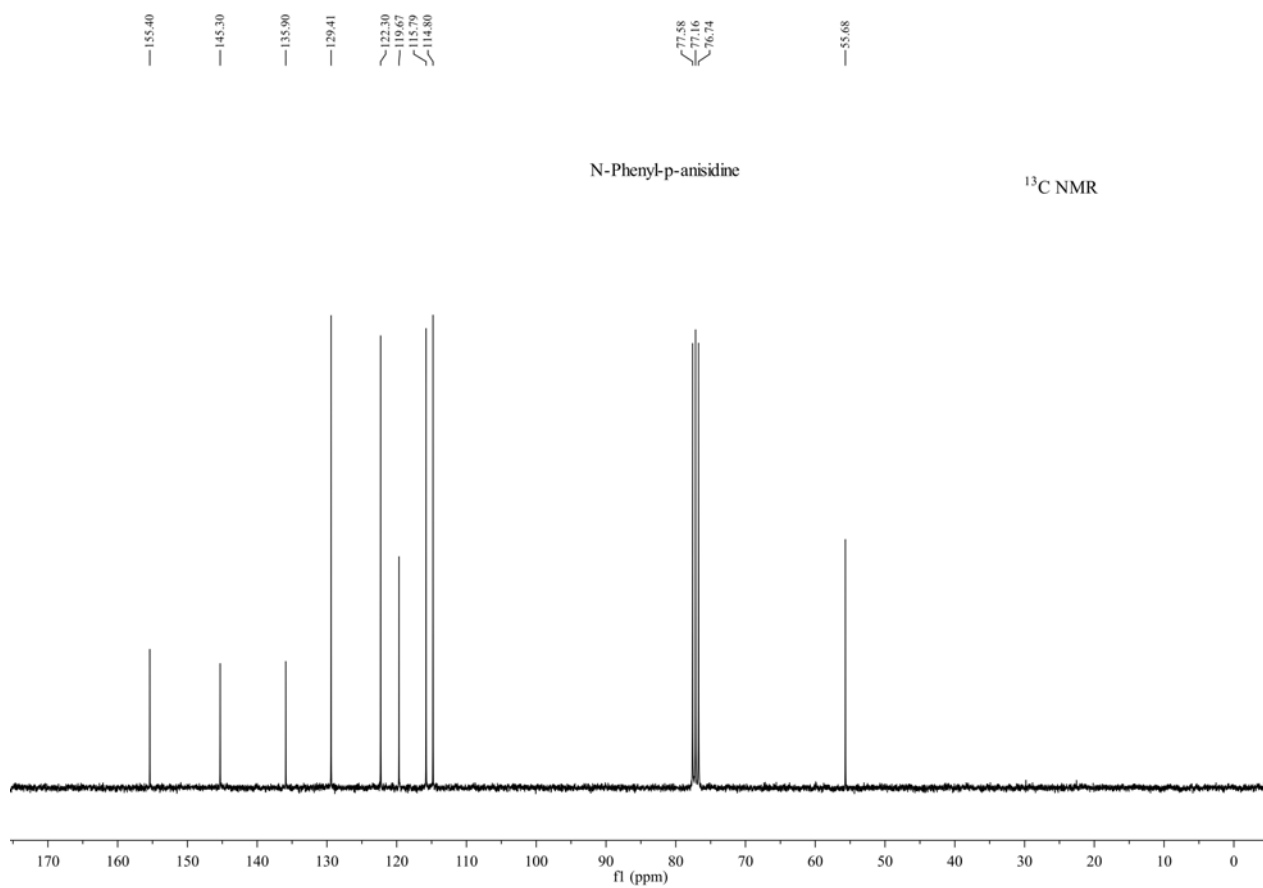
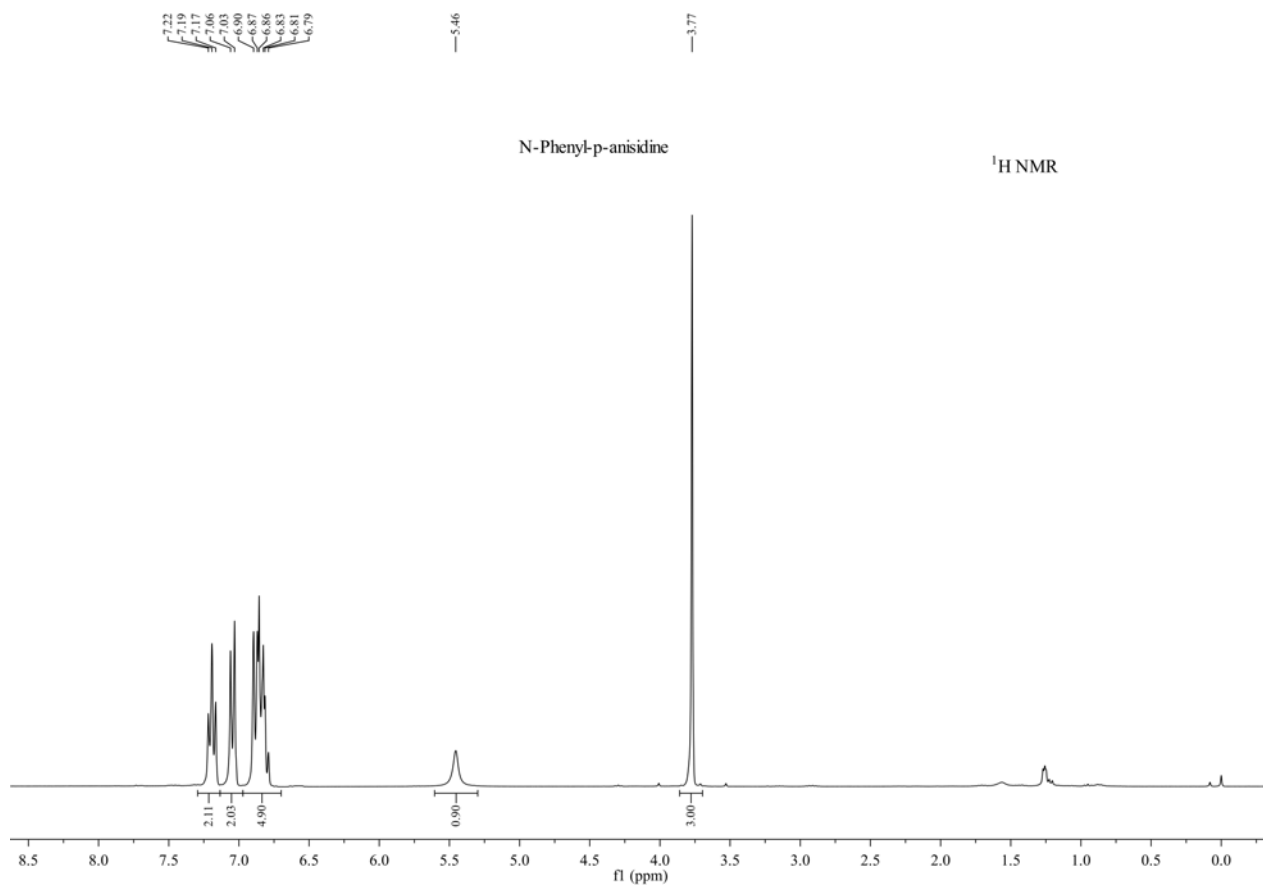
(24) *N*-Methyl-*N*-phenylpyridin-2-amine (**4l**)



(25) *N*-Phenylaniline (**4m**)



(26) 4-Methoxy-*N*-phenylaniline (**4n**)



(27) 2,4,6-Trimethyl-N-phenylaniline (**4o**)

