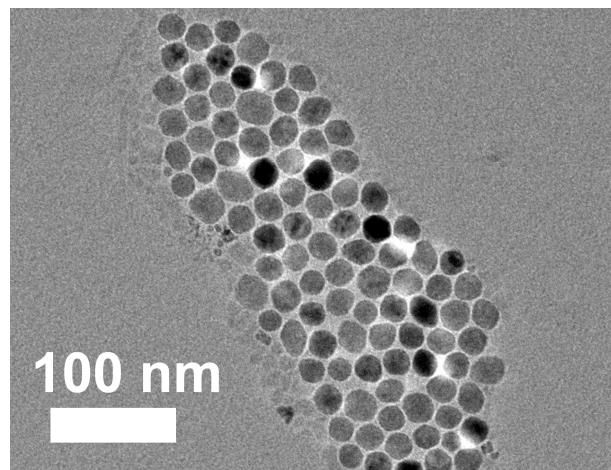
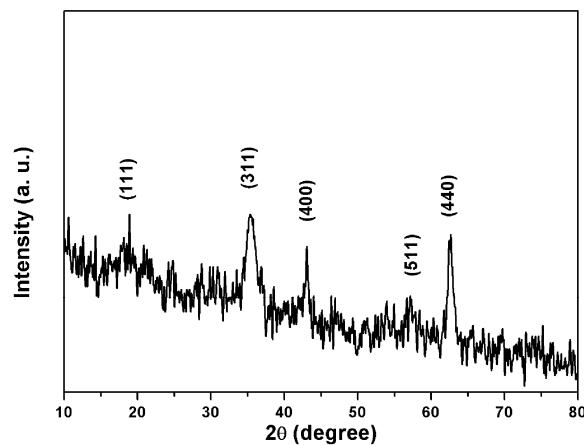


## Supplementary Materials: Article Recyclable Fe<sub>3</sub>O<sub>4</sub> Nanoparticles Catalysts for Aza-Michael Addition by Magnetic Field

Zhen-Xing Li, Dan Luo, Ming-Ming Li, Xiao-Fei Xing, Zheng-Zheng Ma and Hao Xu



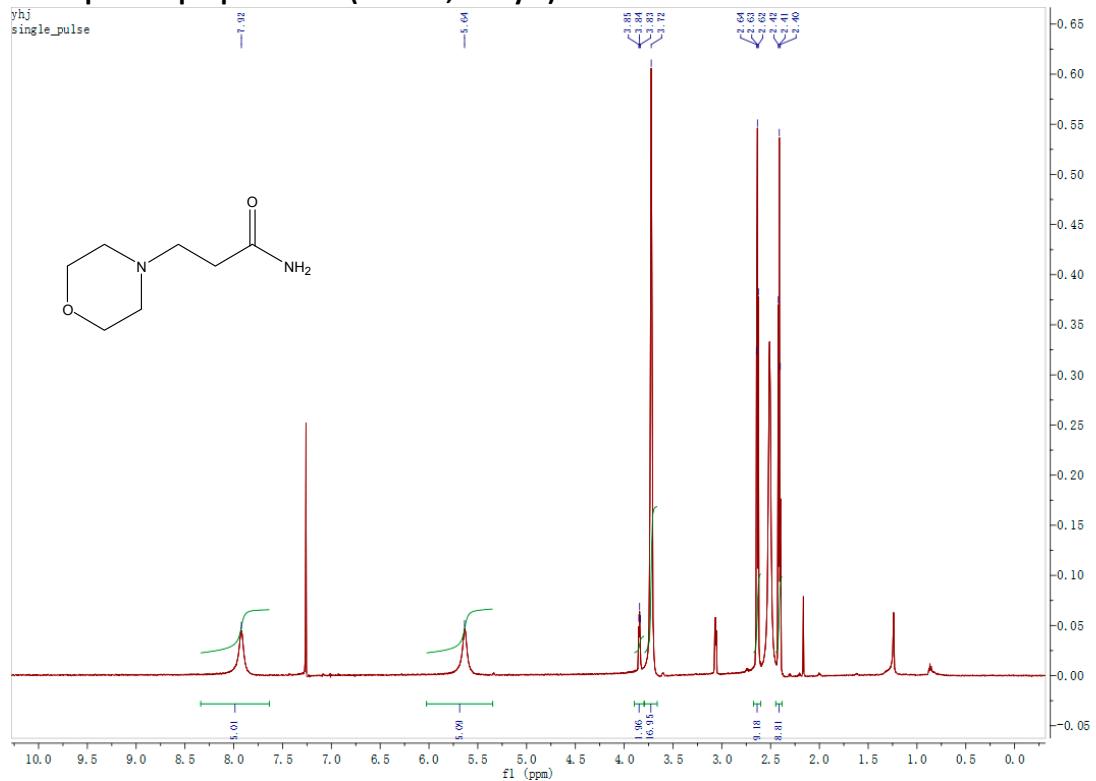
**Figure S1.** TEM image of the recyclable Fe<sub>3</sub>O<sub>4</sub> nanoparticles.



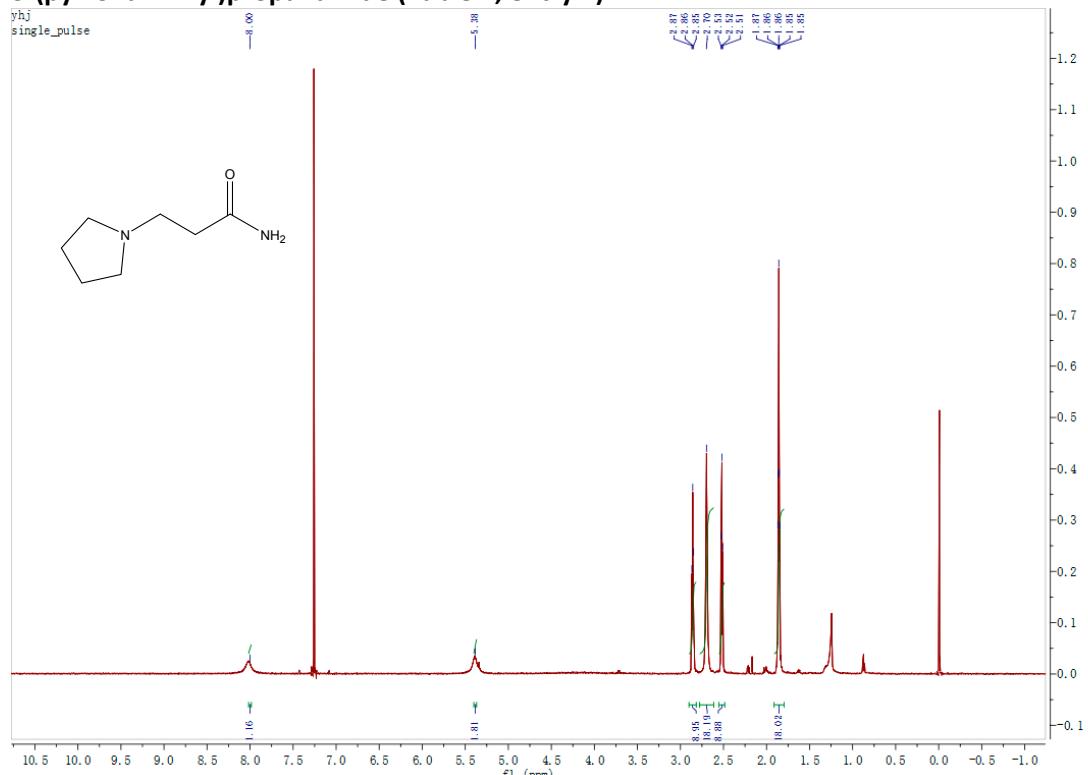
**Figure S2.** Wide-angle X-ray diffraction pattern of the recyclable Fe<sub>3</sub>O<sub>4</sub> nanoparticles.

The NMR spectra of aza-Michael addition products.

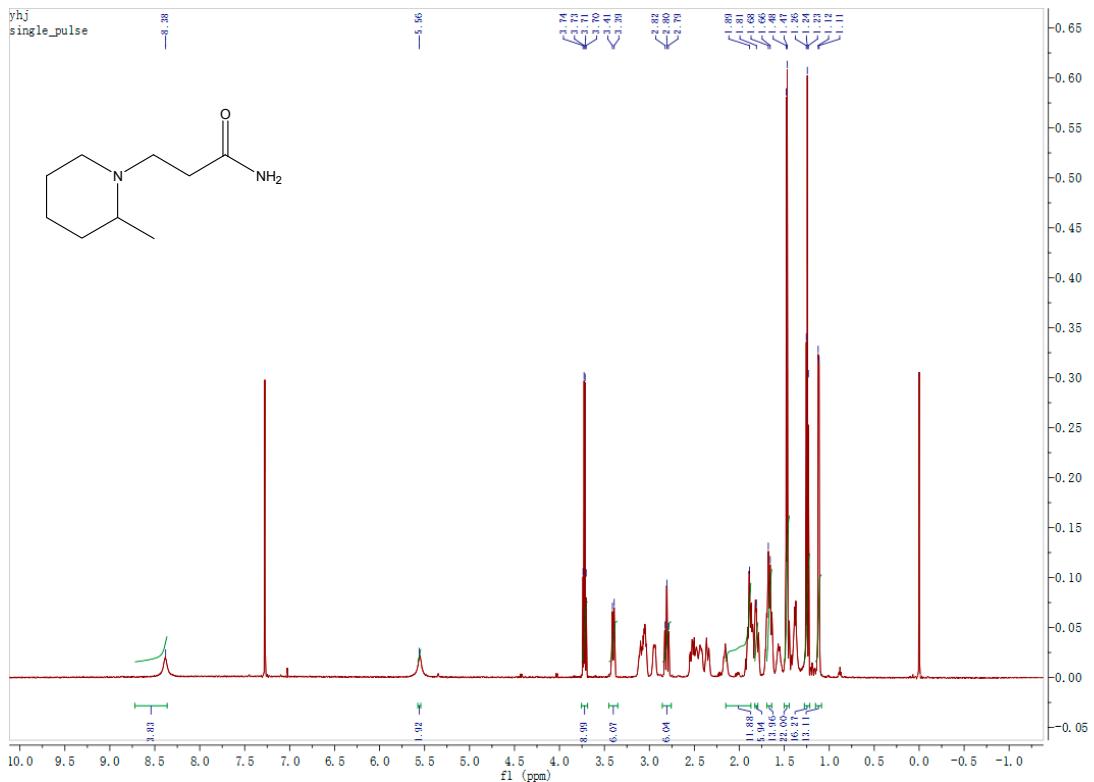
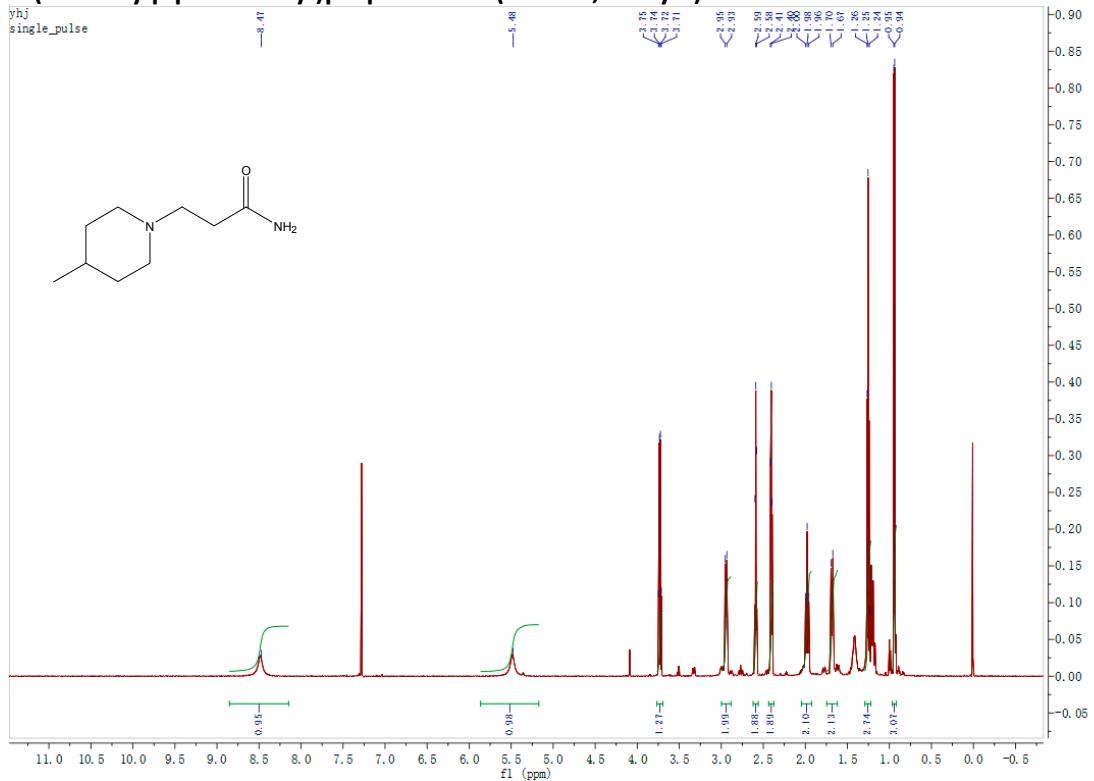
**3-morpholinopropanamide (Table 2, entry 1).**

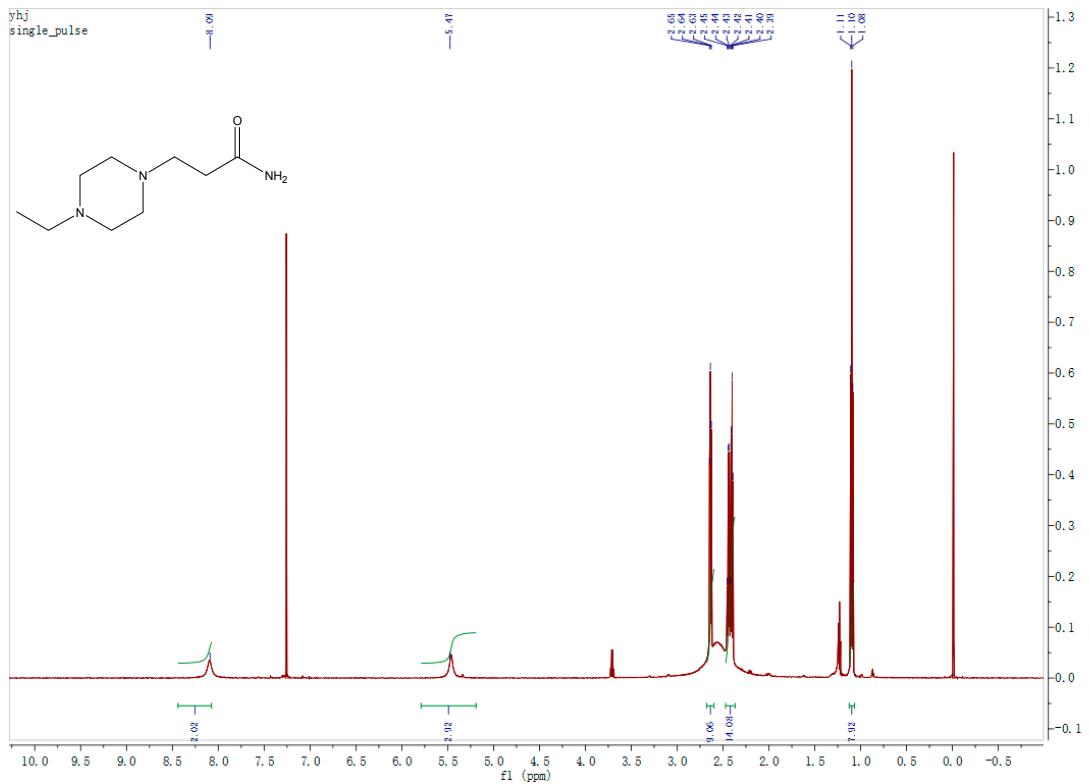
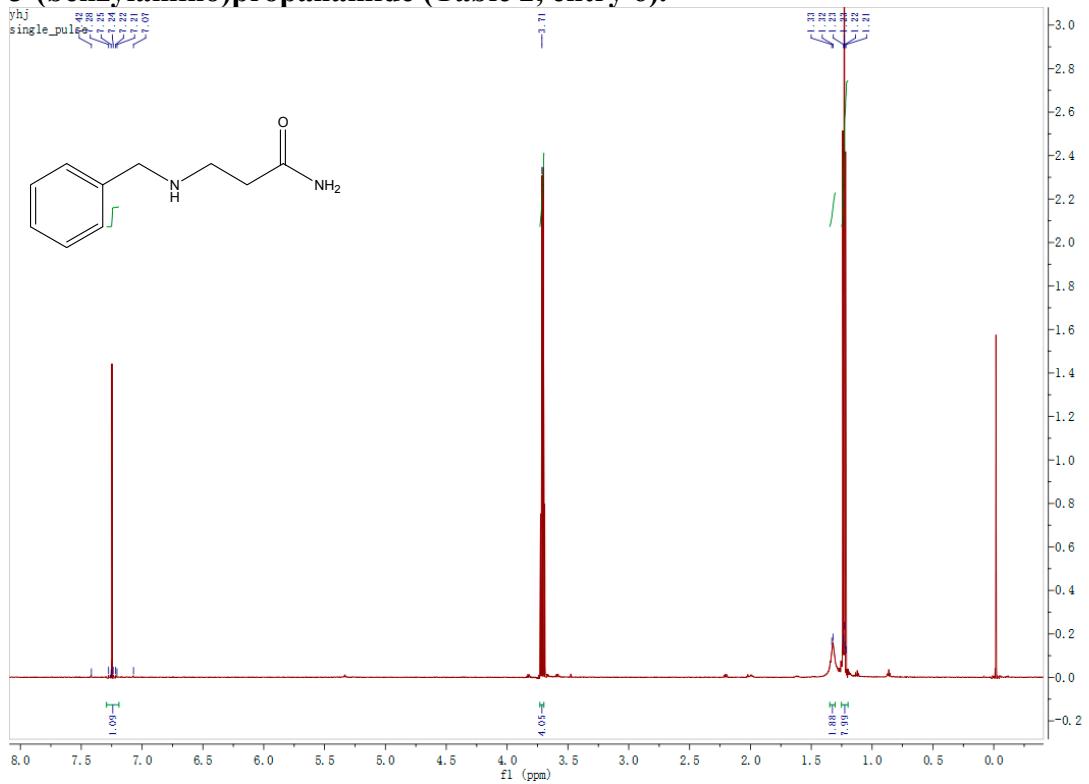


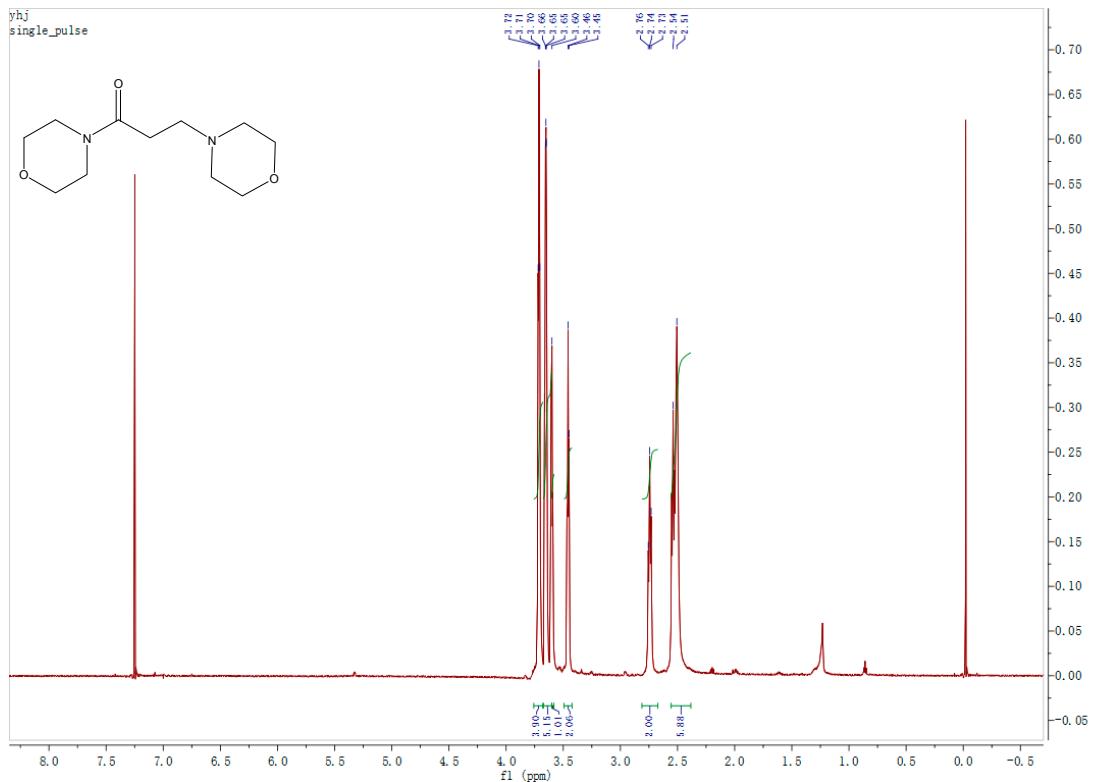
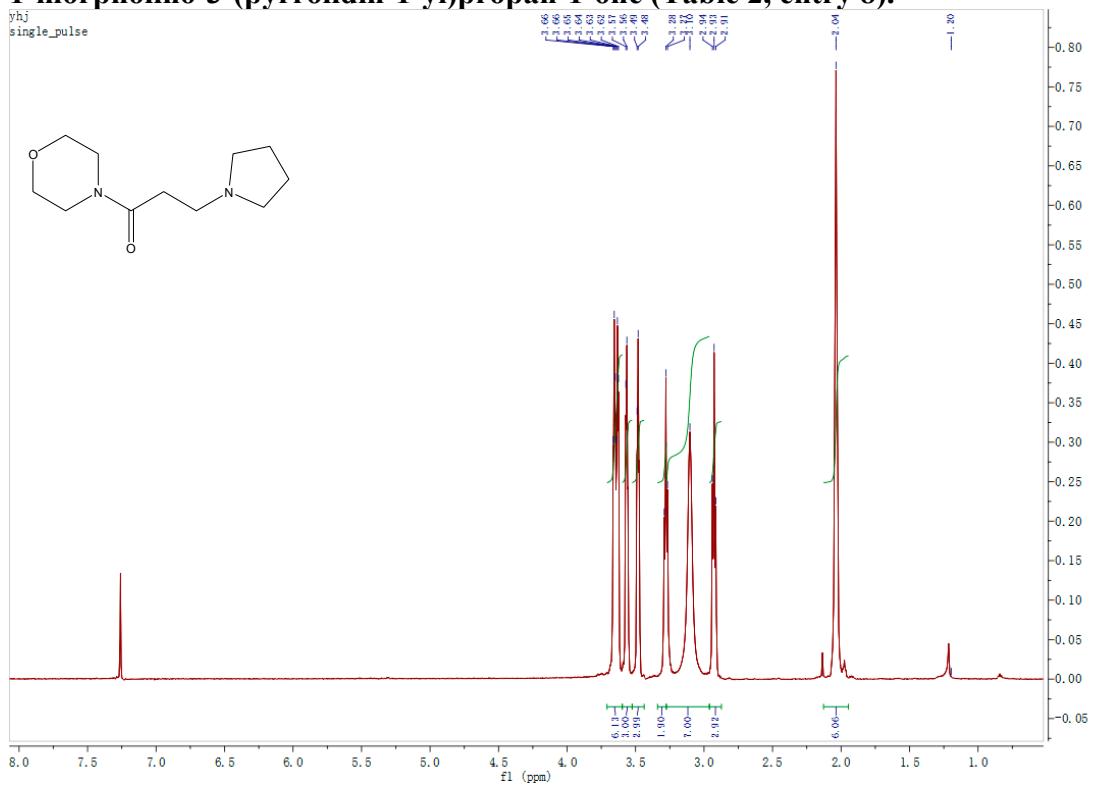
**3-(pyrrolidin-1-yl)propanamide (Table 2, entry 2).**

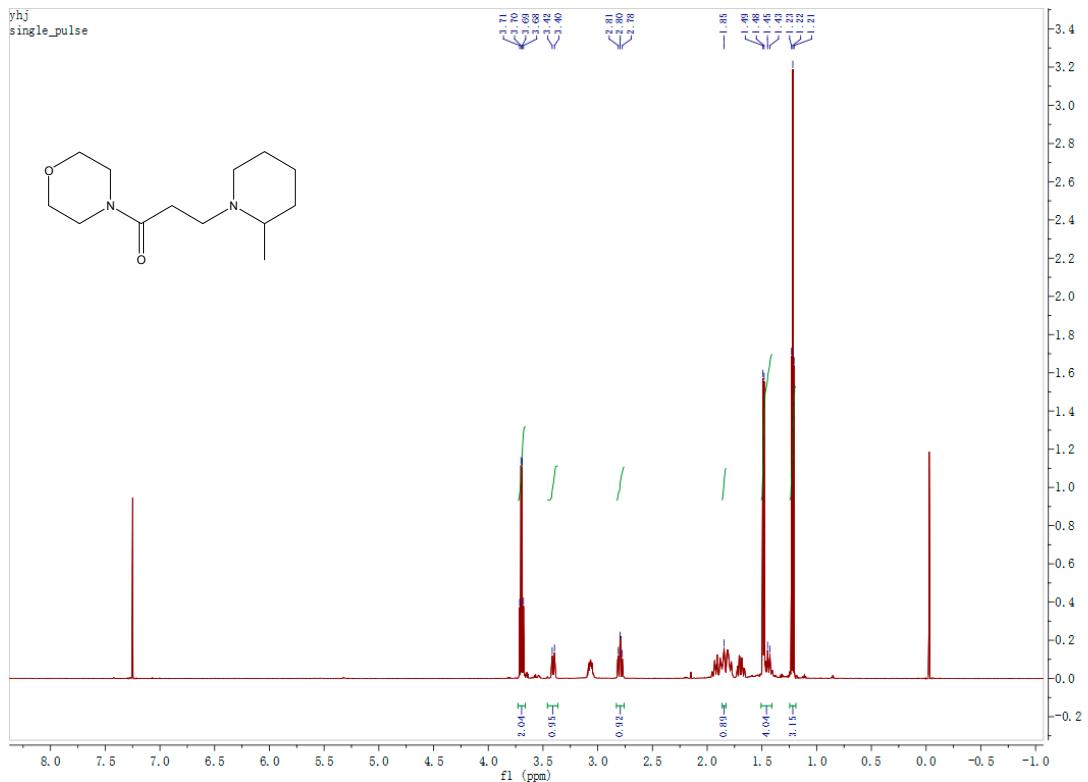
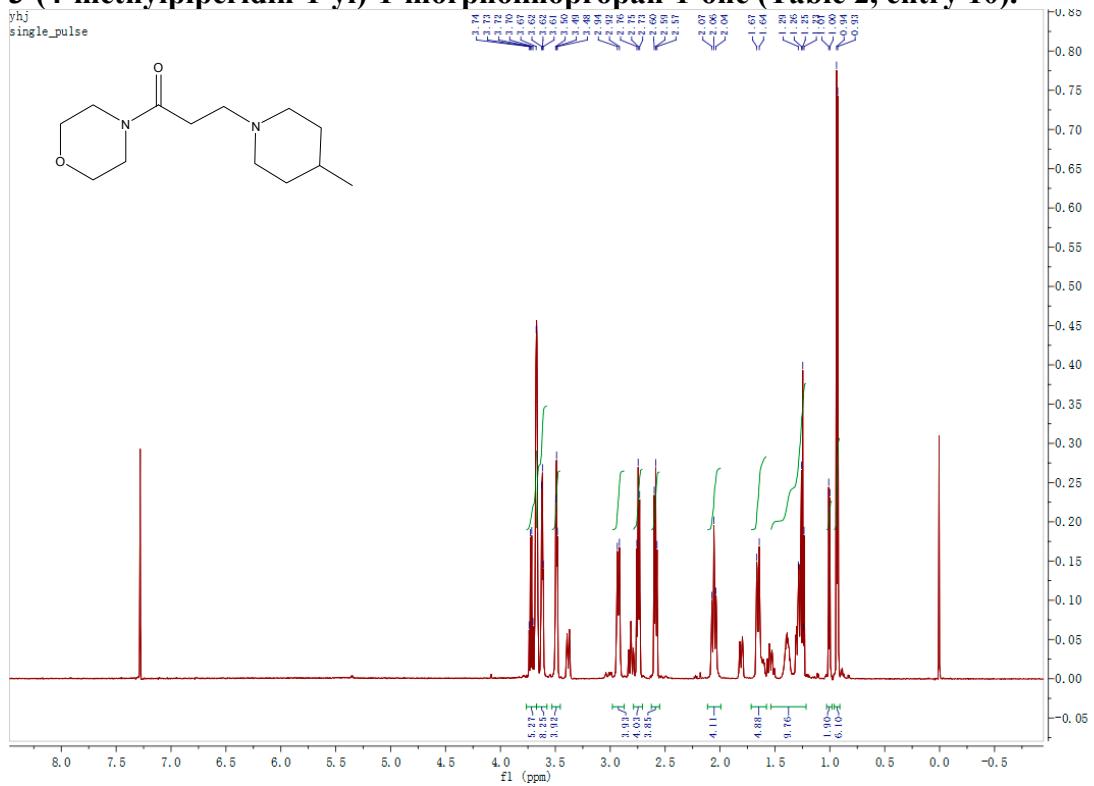


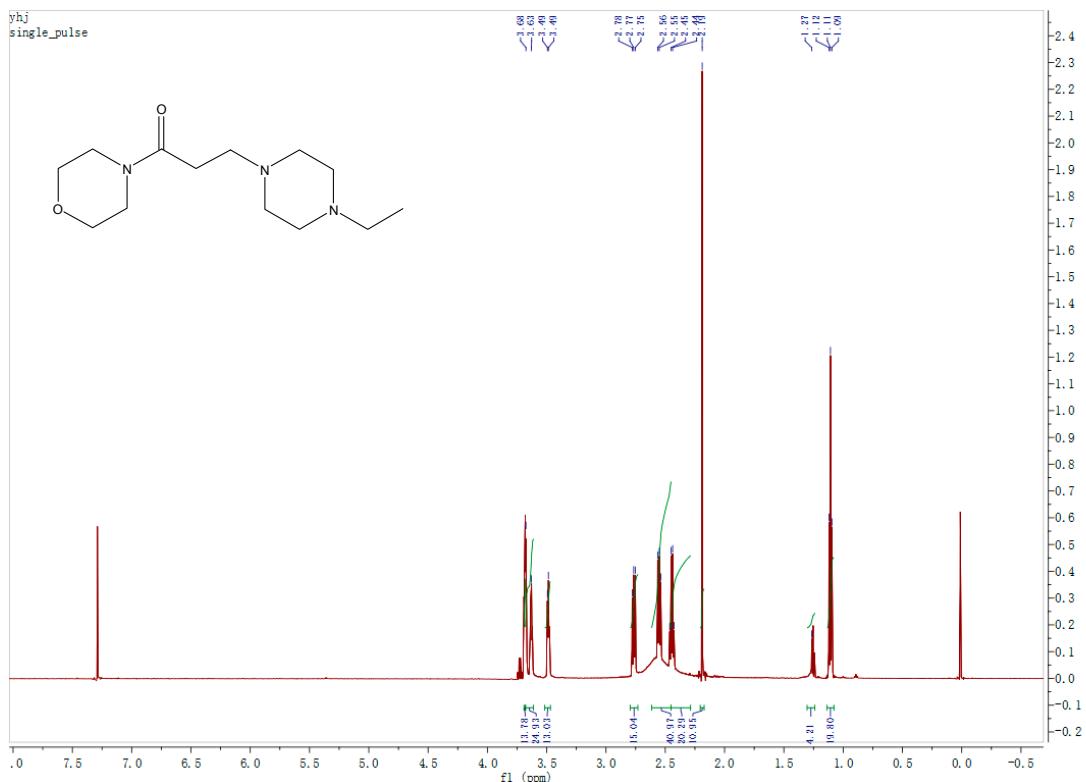
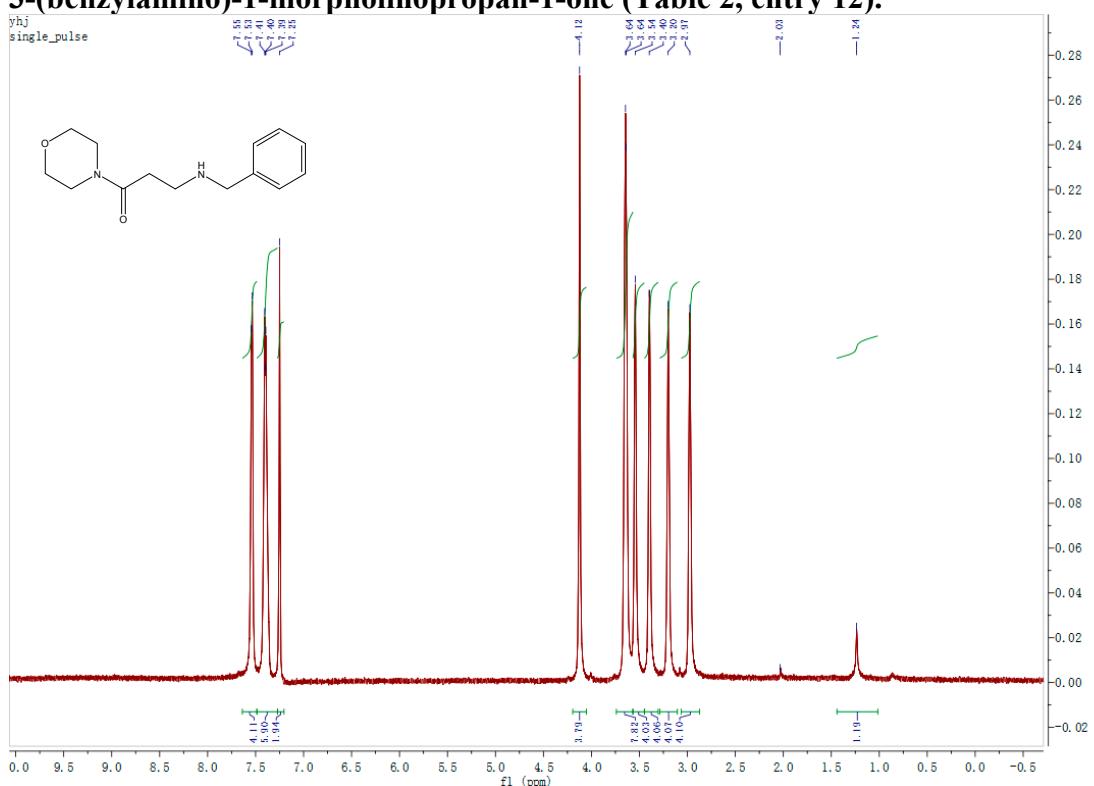
**3-(2-methylpiperidin-1-yl)propanamide (Table 2, entry 3).**

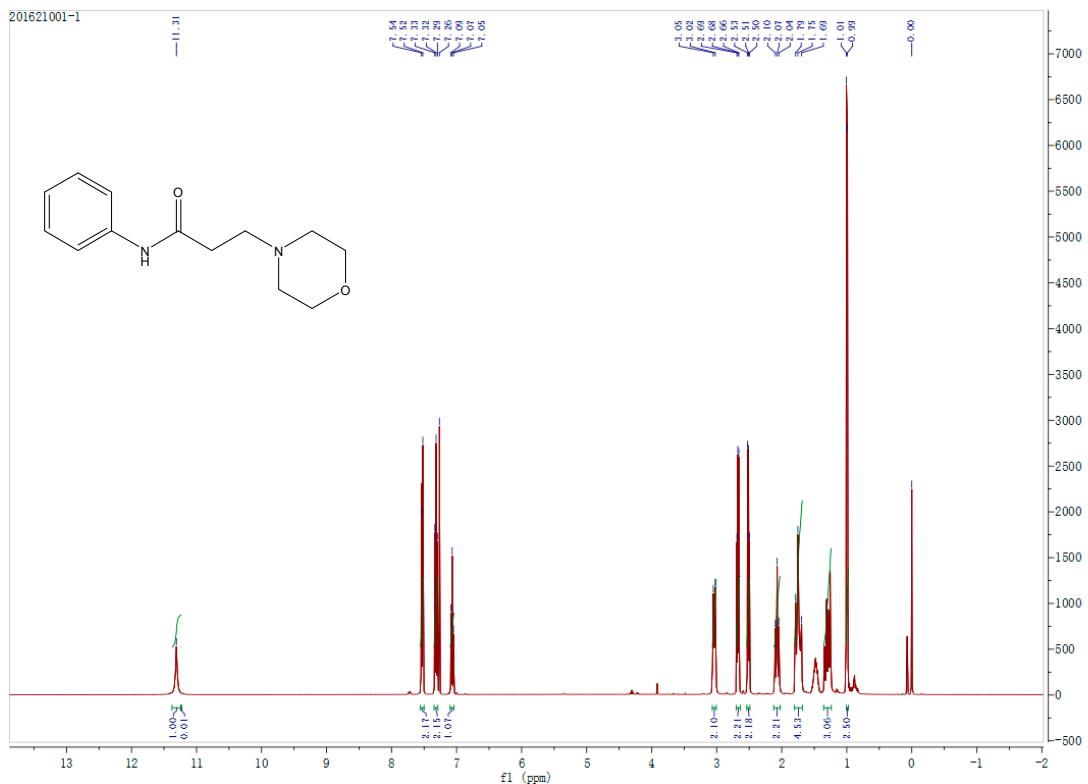
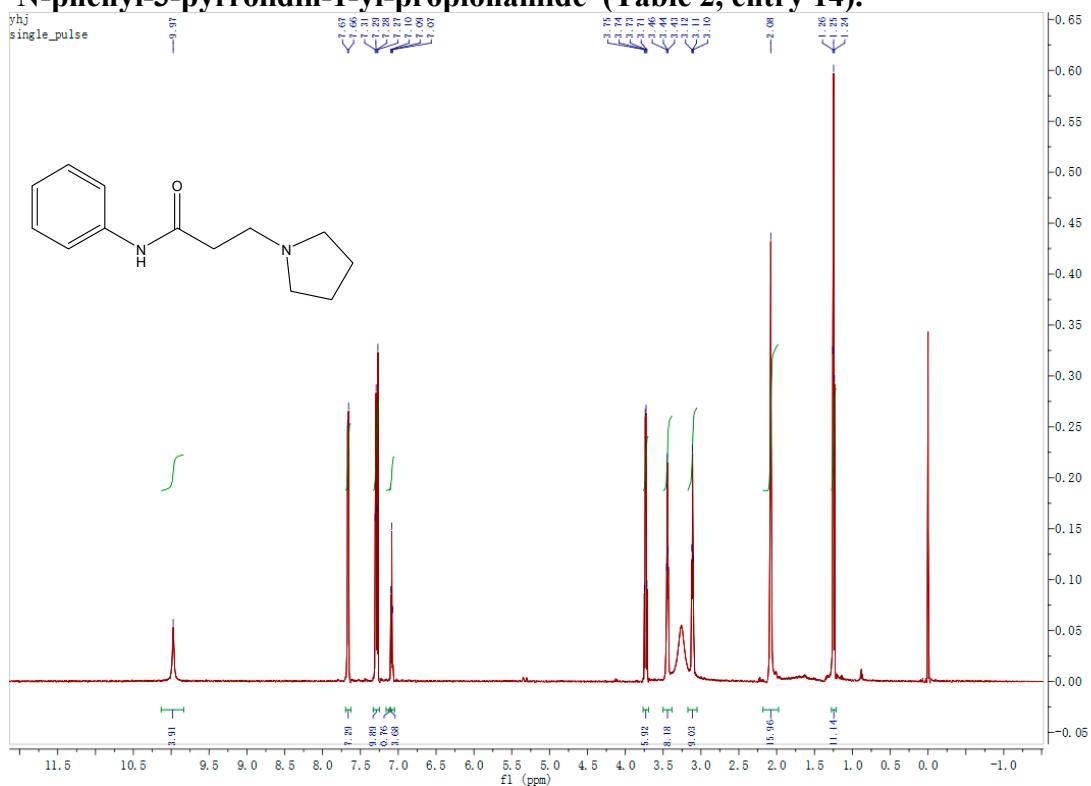
**3-(4-methylpiperidin-1-yl)propanamide (Table 2, entry 4).****3-(4-ethylpiperazin-1-yl)propanamide (Table 2, entry 5).**

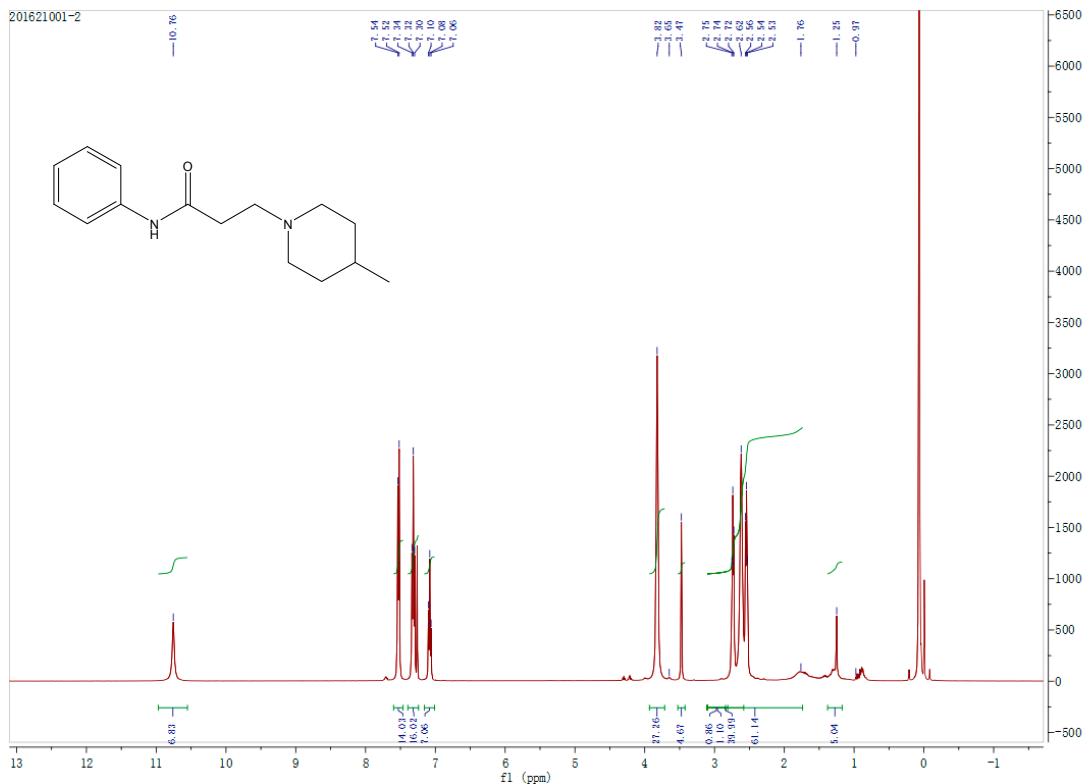
**3-(benzylamino)propanamide (Table 2, entry 6).****3-morpholino-1-morpholinopropan-1-one (Table 2, entry 7).**

**1-morpholino-3-(pyrrolidin-1-yl)propan-1-one (Table 2, entry 8).****3-(2-methylpiperidin-1-yl)-1-morpholinopropan-1-one (Table 2, entry 9).**

**3-(4-methylpiperidin-1-yl)-1-morpholinopropan-1-one (Table 2, entry 10).****3-(4-ethylpiperazin-1-yl)-1-morpholinopropan-1-one (Table 2, entry 11).**

**3-(benzylamino)-1-morpholinopropan-1-one (Table 2, entry 12).****3-morpholin-4-yl-N-phenyl-propionamide (Table 2, entry 13).**

**N-phenyl-3-pyrrolidin-1-yl-propionamide (Table 2, entry 14).****3-(4-methyl-piperidin-1-yl)-N-phenyl-propionamide (Table 2, entry 15).**

**3-benzylamino-N-phenyl-propionamide (Table 2, entry 16).**