

Aerobic and totally selective oxidative destruction of BTEX contaminants using VO^{2+} decorated silica nanoparticles and Kaolin powder

Pegah Mohammadpour, Elham Safaei*

1. Characterization of catalyst

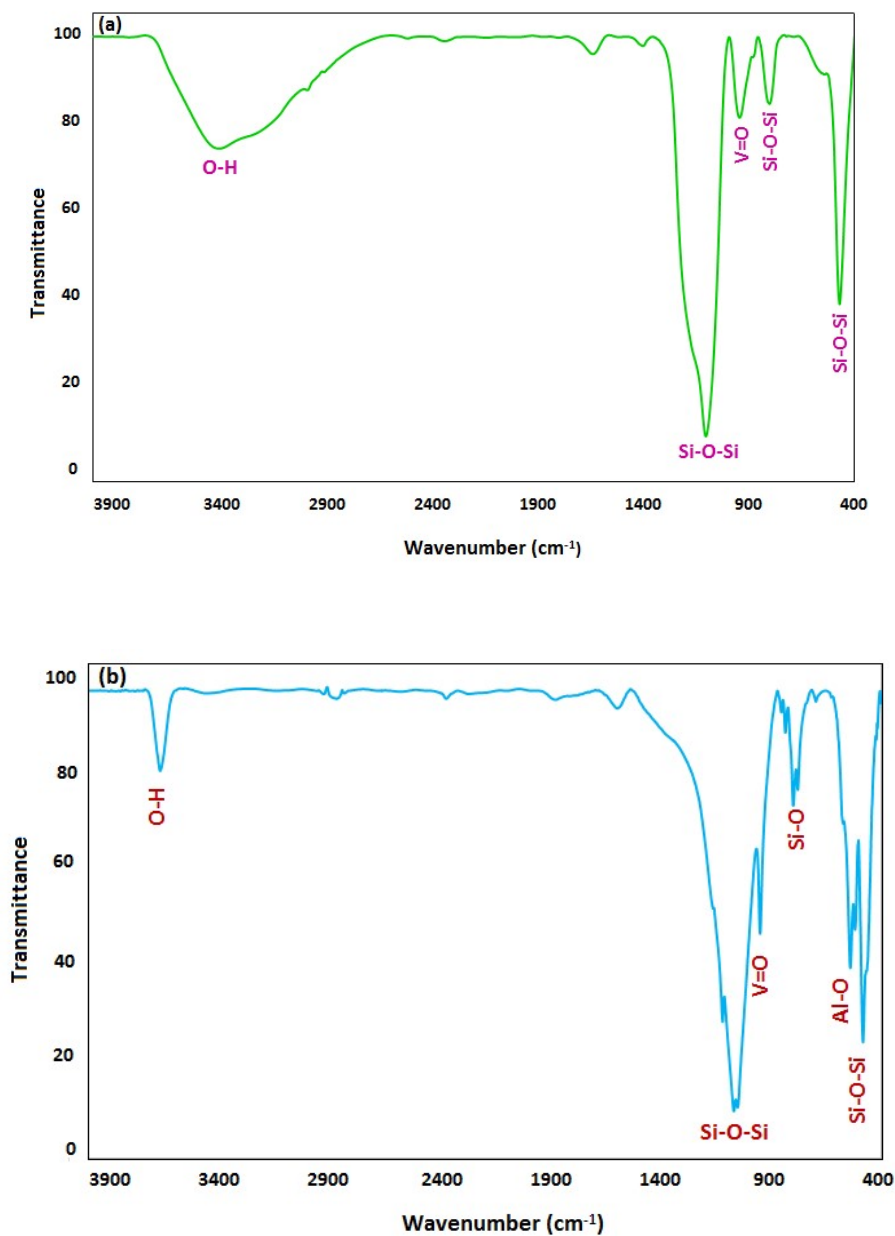


Figure S1: FTIR spectra of VO-SNP (a) and VO-Kaolin (b).

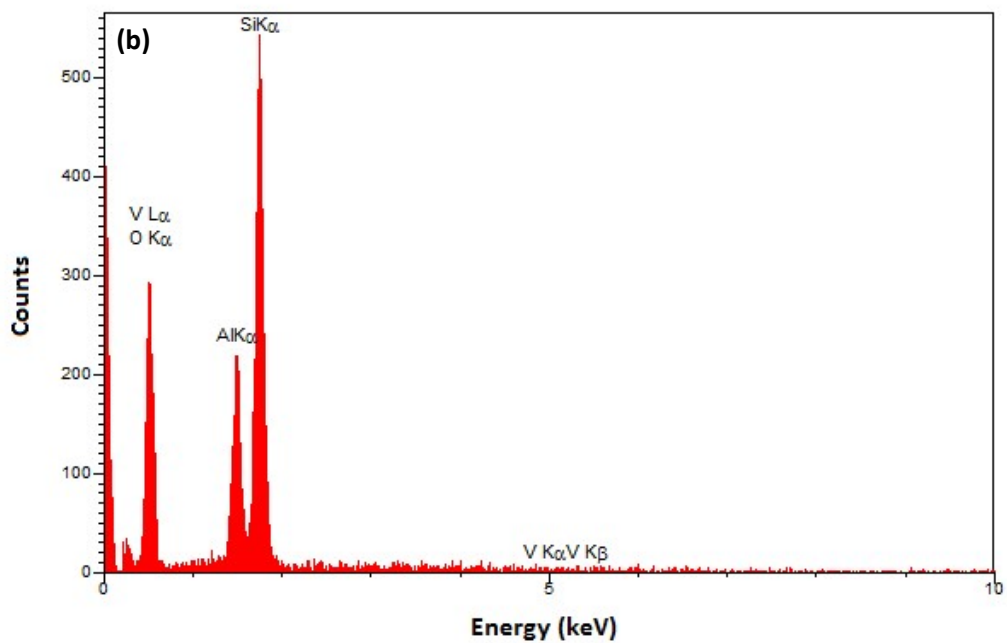
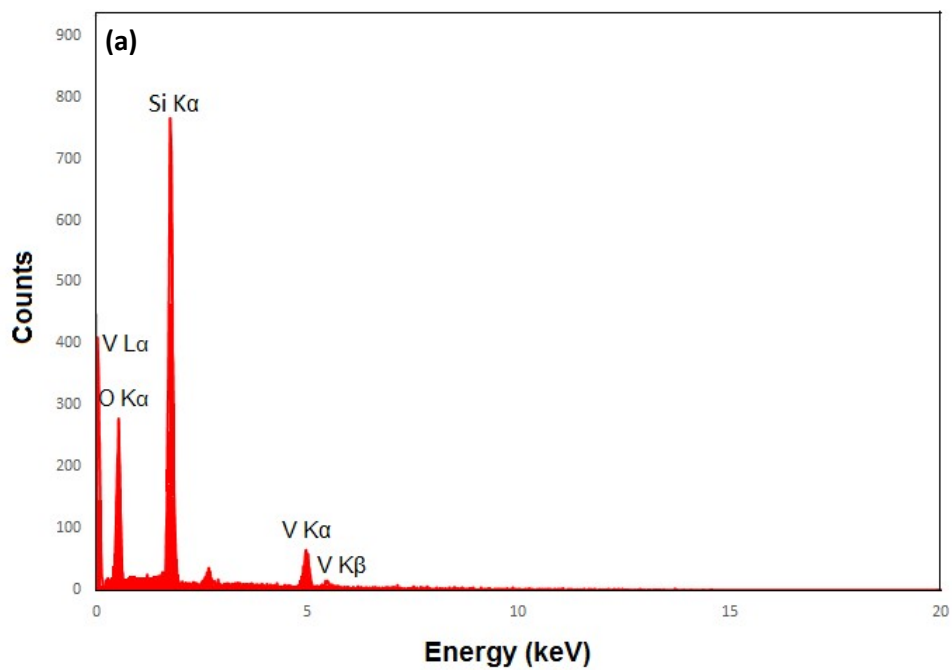


Figure S2: Energy-dispersive X-ray spectroscopy of VO-SNP (a) and VO-Kaolin (b).

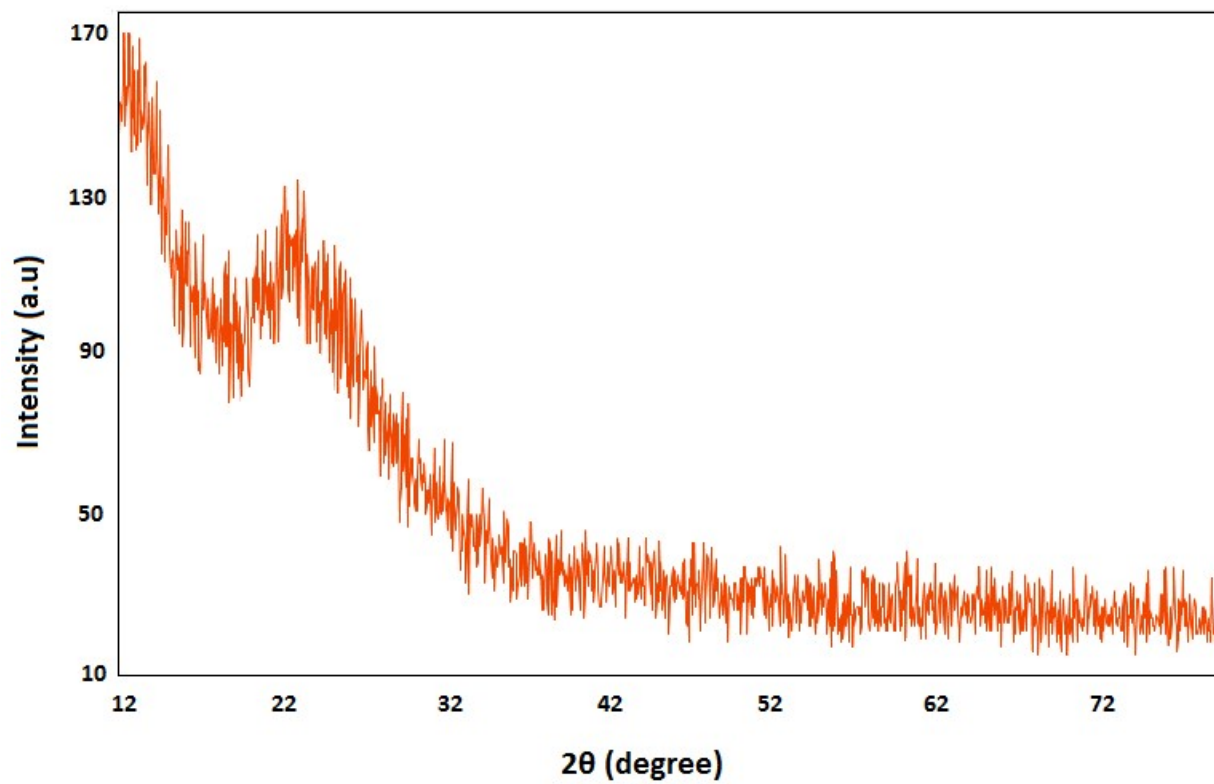


Figure S3: X-ray diffraction pattern of VO-SNP.

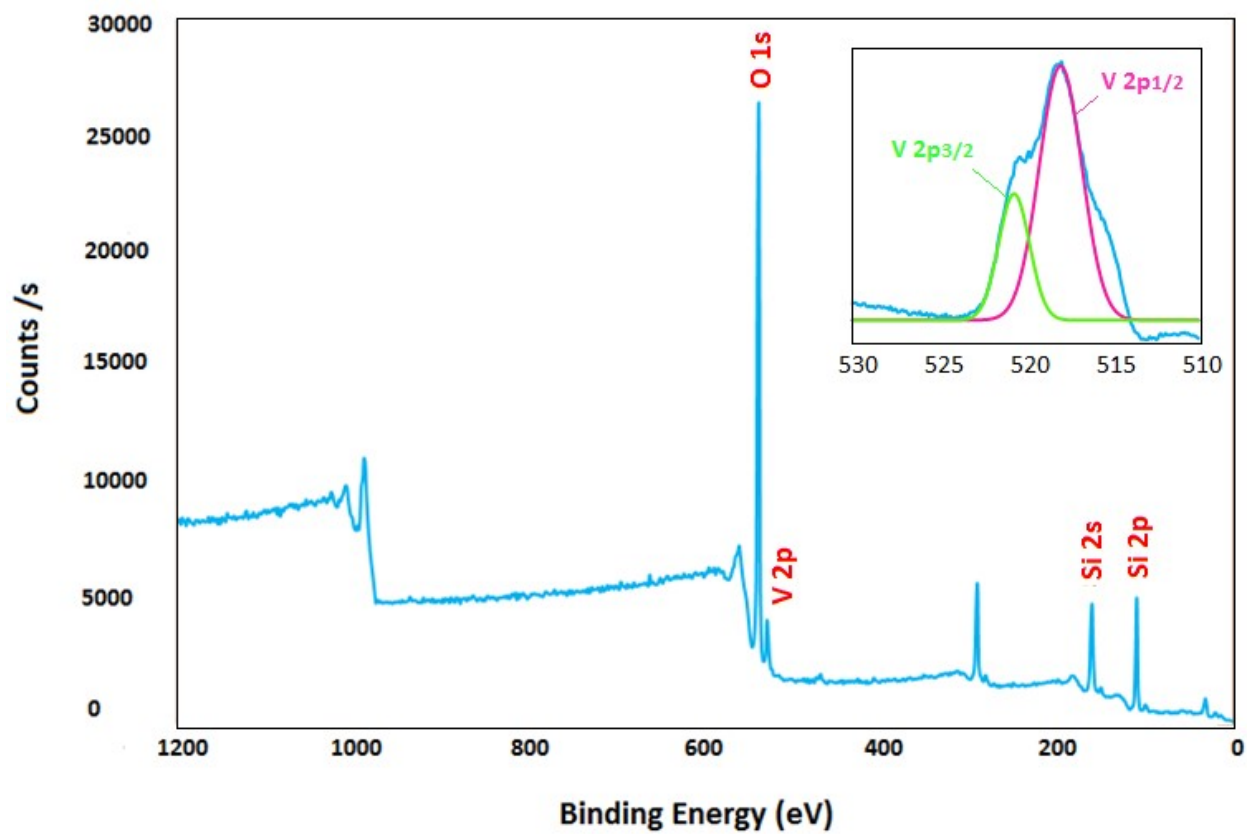


Figure S4: The X-ray photoelectron spectroscopy (XPS) spectrum of VO-SNP and curve fitting of V2p.

2. ^1H NMR spectrum of products

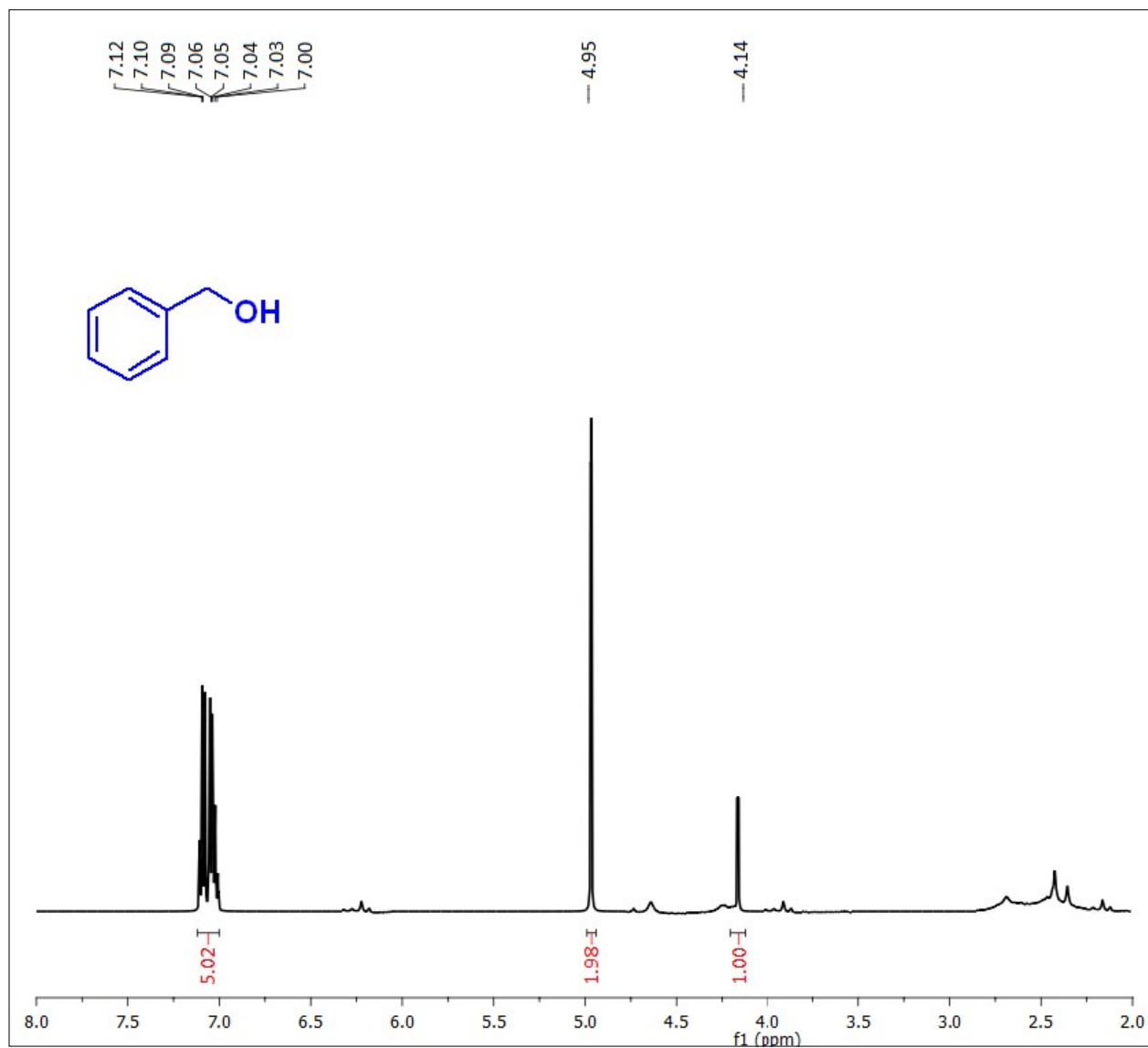


Figure S5: The ^1H NMR spectrum of benzyl alcohol in CDCl_3 .

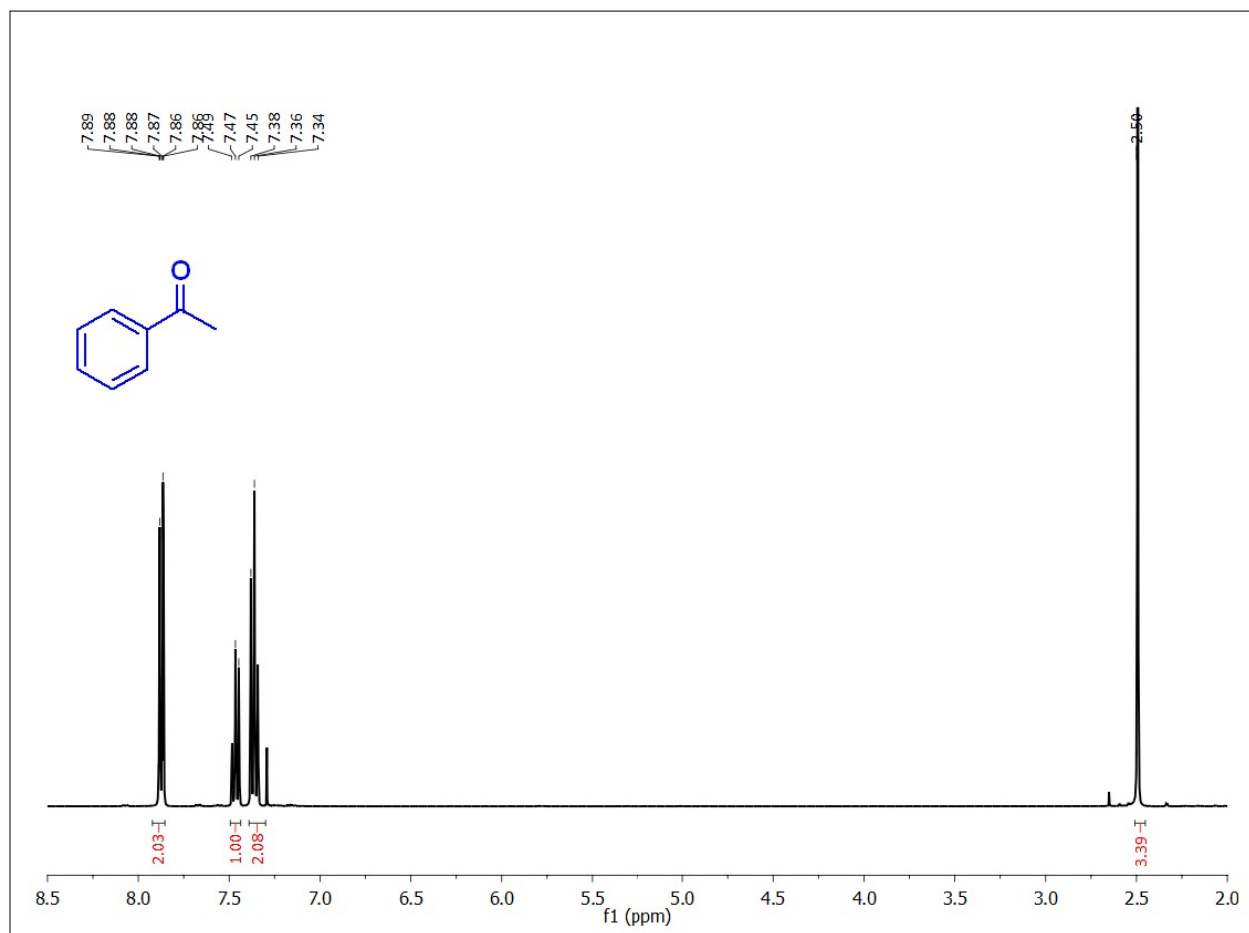


Figure S6: The ^1H NMR spectrum of acetophenone in CDCl_3 .

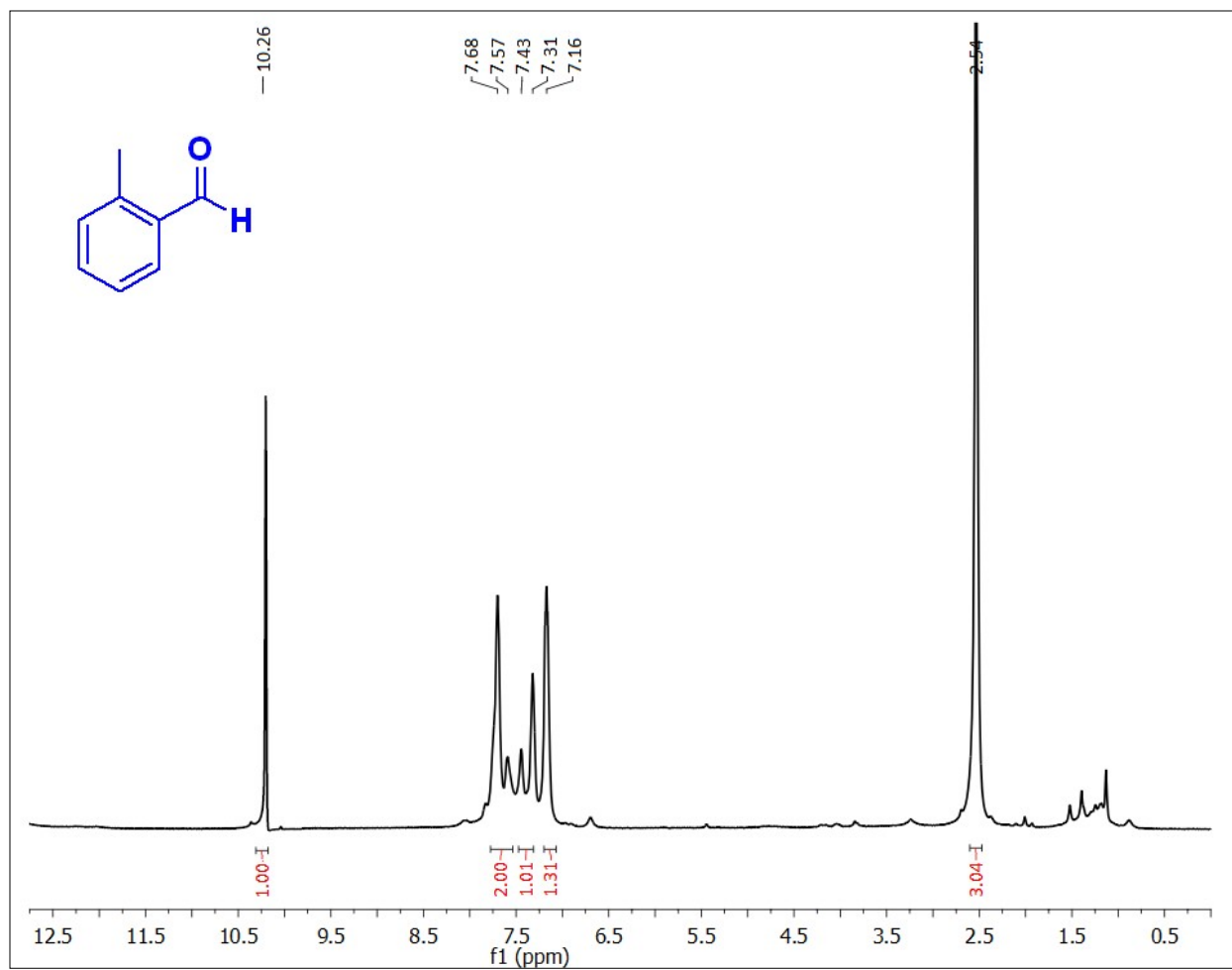


Figure S7: The ^1H NMR spectrum of 2-Methylbenzaldehyde in CDCl_3 .

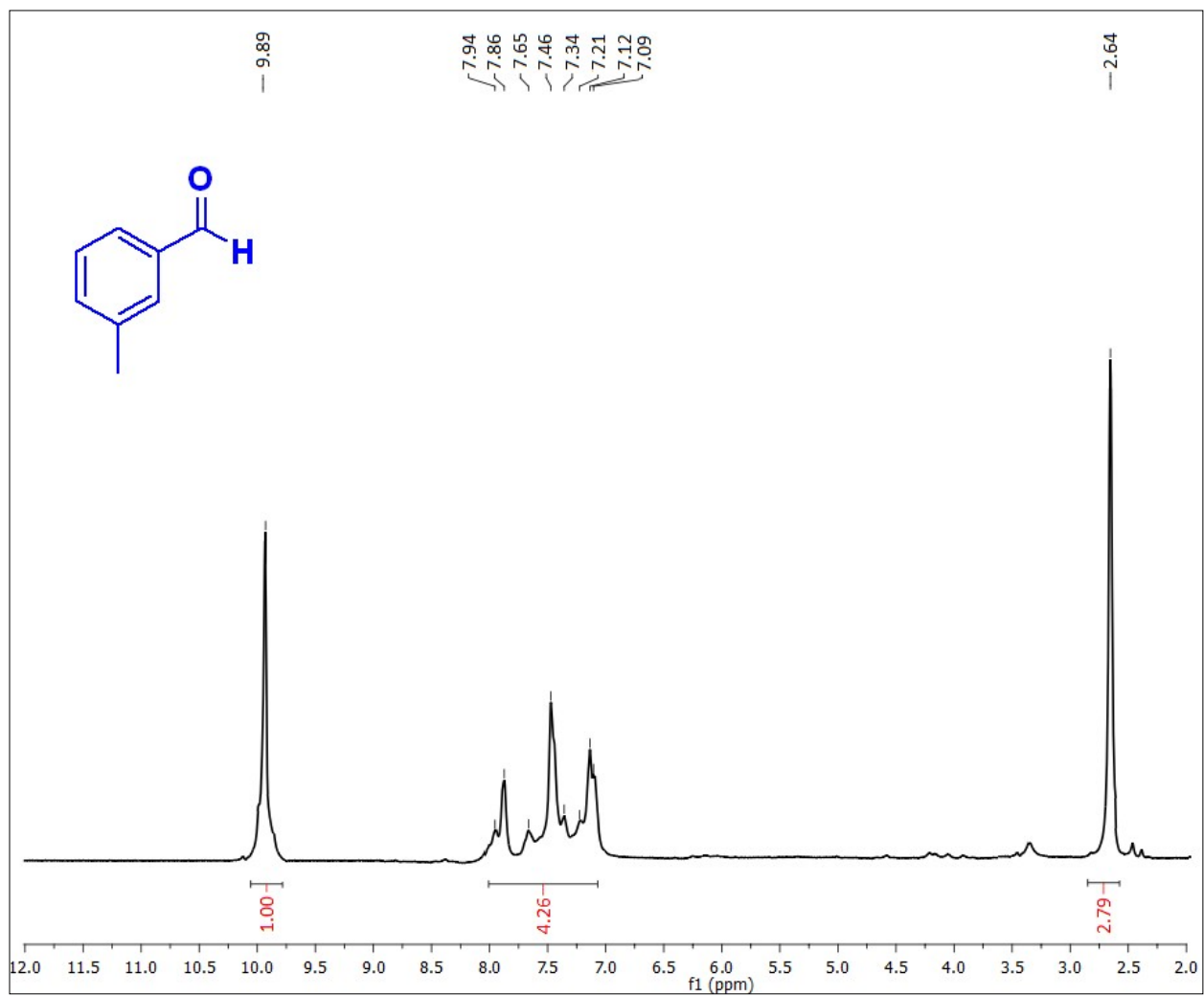


Figure S8: The ^1H NMR spectrum of 3-Methylbenzaldehyde in CDCl_3 .

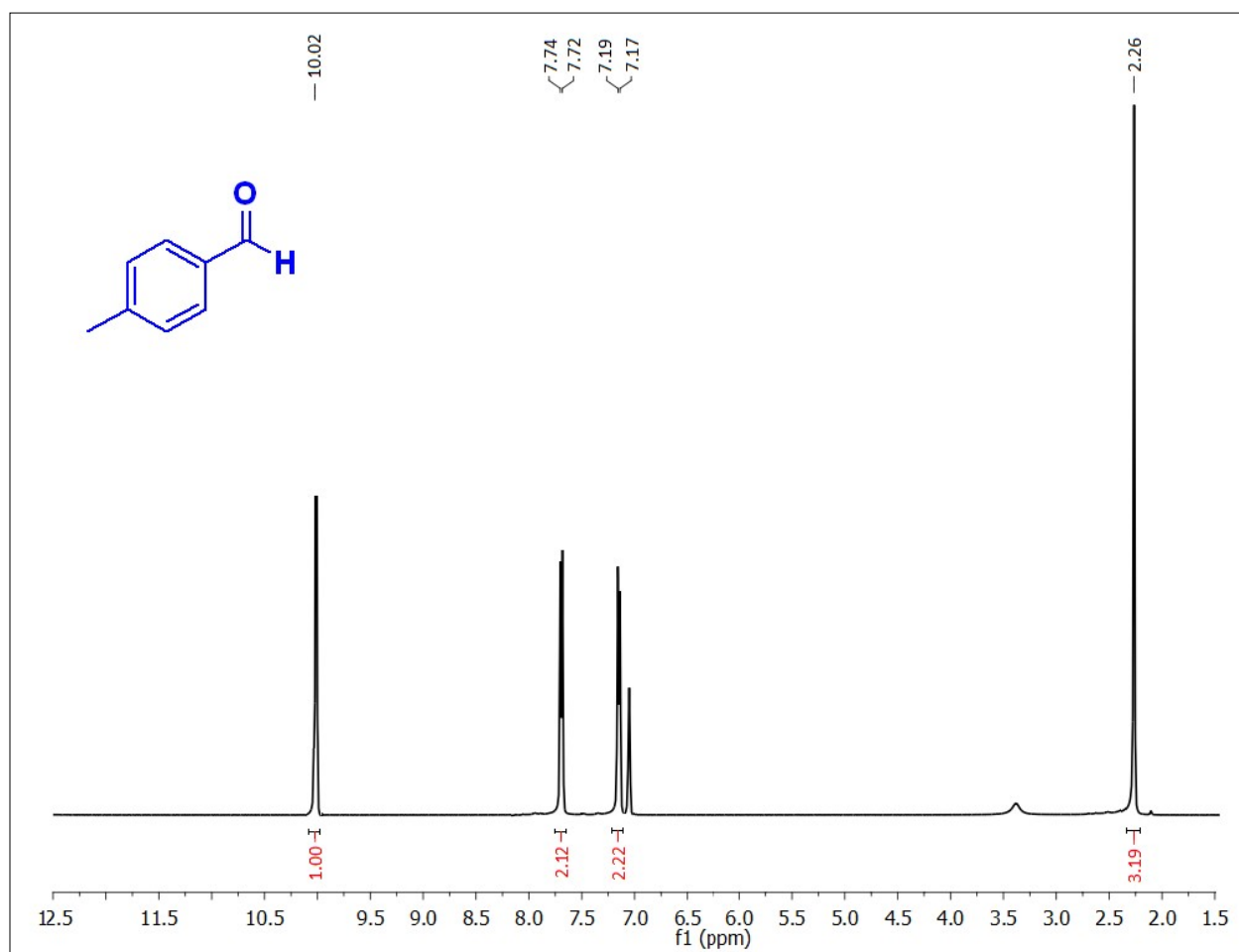


Figure S9: The ^1H NMR spectrum of 4-Methylbenzaldehyde in CDCl_3 .