

Supplementary information

**Photo-Fenton process in Co(II)-adsorbed micellar soft-template on alumina support
for rapid methylene blue degradation**

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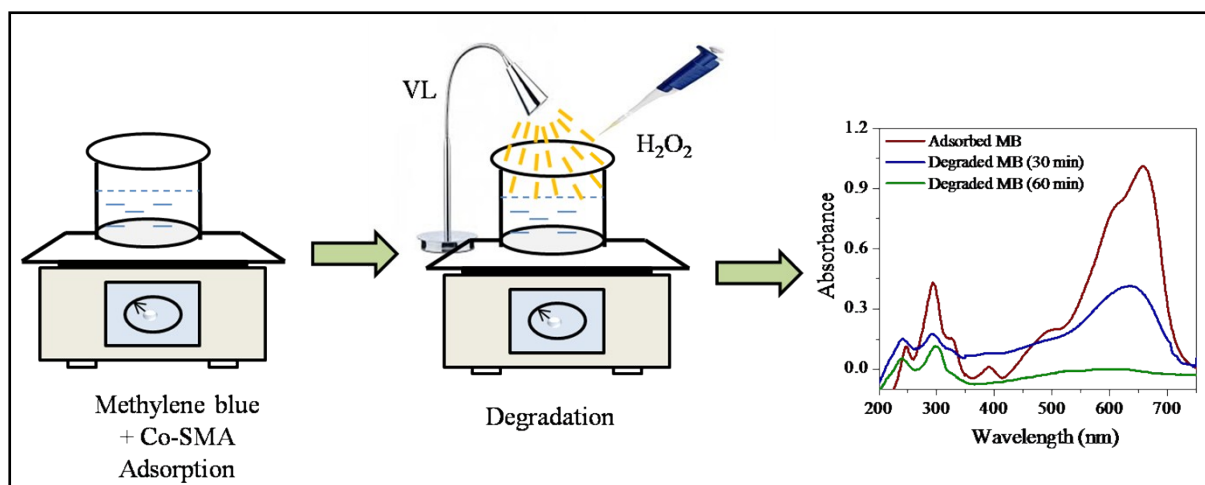


Figure S1: Schematic of the experimental procedure of MB degradation

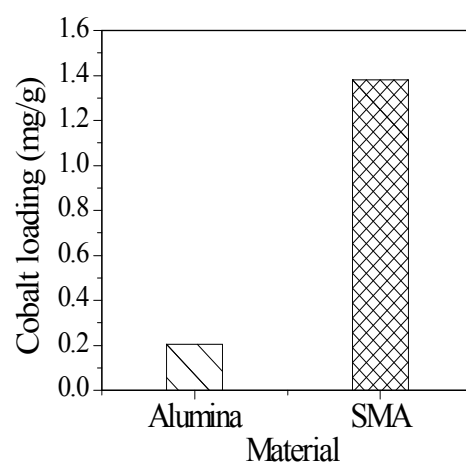


Figure S2: Loading of Co(II) on alumina and SMA

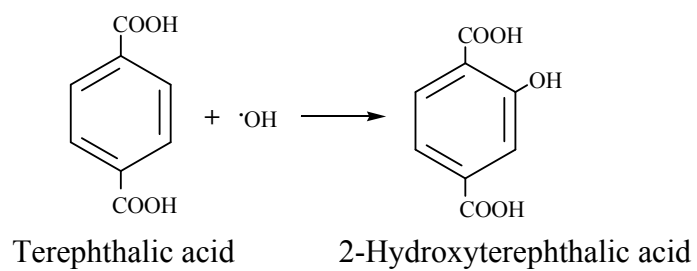


Figure S3: Formation of 2-hydroxyterephthalic acid from terephthalic acid due to the reaction with hydroxyl radical

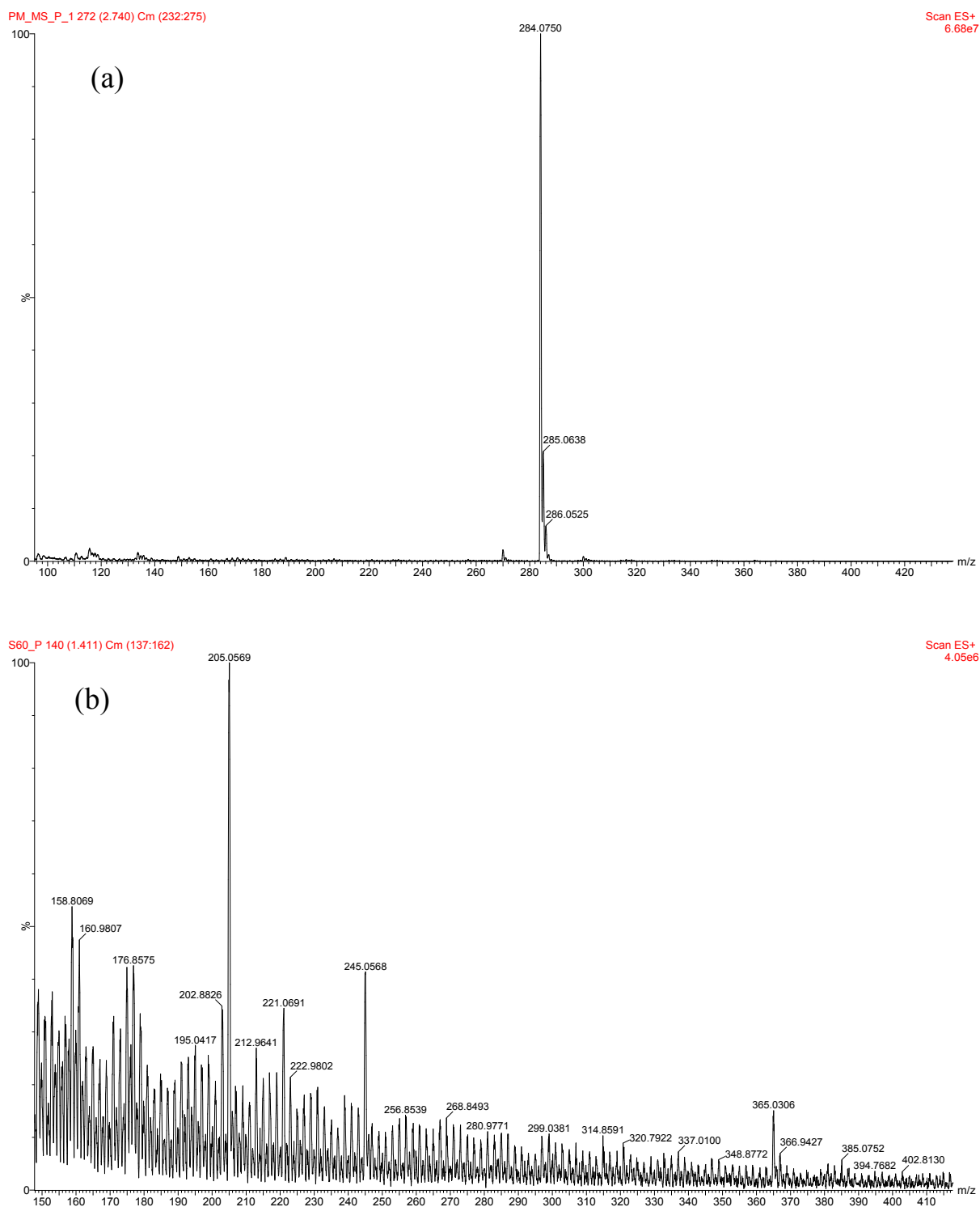


Fig. S4 (a): Mass spectrum of MB (Conc.: 10 mg/L); (b): Mass spectrum of MB degradation product after 60 min reaction (Conc. of MB: 10 mg/L; Dose of Co-SMA: 20 g/L; Conc. of H₂O₂: 348.8 mM; Light intensity: 10010 lux)