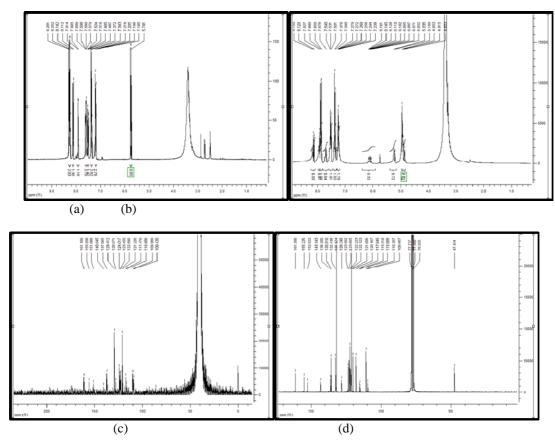
## New Benzimidazole Substituted Cobalt and Manganese Phthalocyanines as Hydrogen Peroxide Catalysts for Laundry Bleaching

Pinar Sen, a,b@ S. Zeki Yildiz, b Sibel Demir Kanmazalp, c,d and Necmi Degee

## <sup>1</sup>H NMR and <sup>13</sup>C NMR spectra of 2 and 3



**Figure 1.**a)<sup>1</sup>HNMR spectrum of **2**, b) <sup>1</sup>HNMR spectrum of **3**, c) <sup>13</sup>CNMR spectrum of **2**, d) <sup>13</sup>CNMR spectrum of **3**.

<sup>&</sup>lt;sup>a</sup>Uskudar University, Faculty of Engineering and Natural Sciences, Department of Forensic Science, 34662 Istanbul, Turkey

<sup>&</sup>lt;sup>b</sup>Sakarya University, Faculty of Arts and Sciences, Department of Chemistry, 54187 Sakarya, Turkey

<sup>&</sup>lt;sup>c</sup>Technical Sciences, Gaziantep University, Gaziantep, Turkey

<sup>&</sup>lt;sup>d</sup>Physics Department, Gebze Technical University, Kocaeli, Turkey

<sup>&</sup>lt;sup>e</sup>Ondokuz Mayıs University, Faculty of Arts and Sciences, Department of Physics, 55139 Samsun, Turkey

<sup>&</sup>lt;sup>®</sup>Corresponding author E-mail: pinar.sen@uskudar.edu.tr

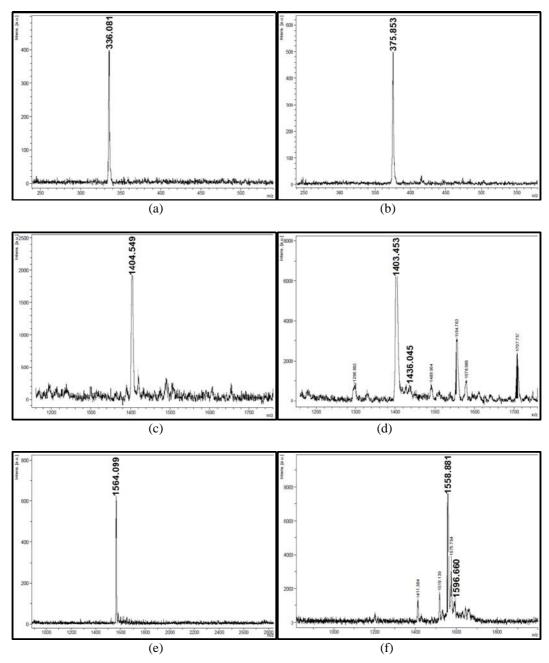


Figure 2. MALDI-TOF MS spectra of 2 (a), 3 (b), 4 (c), 5 (d), 6 (e) and 7 (f)