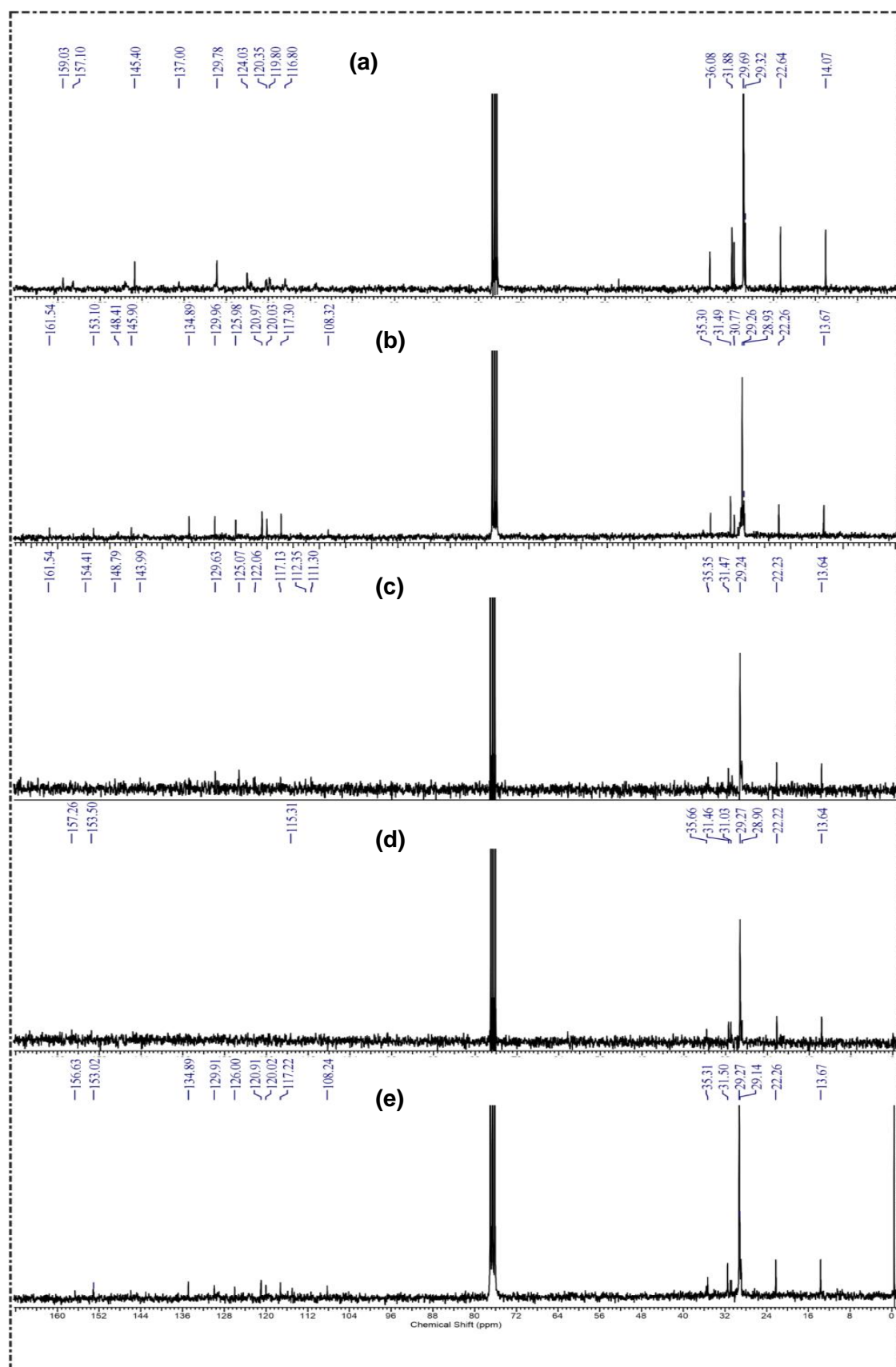


# Supporting information

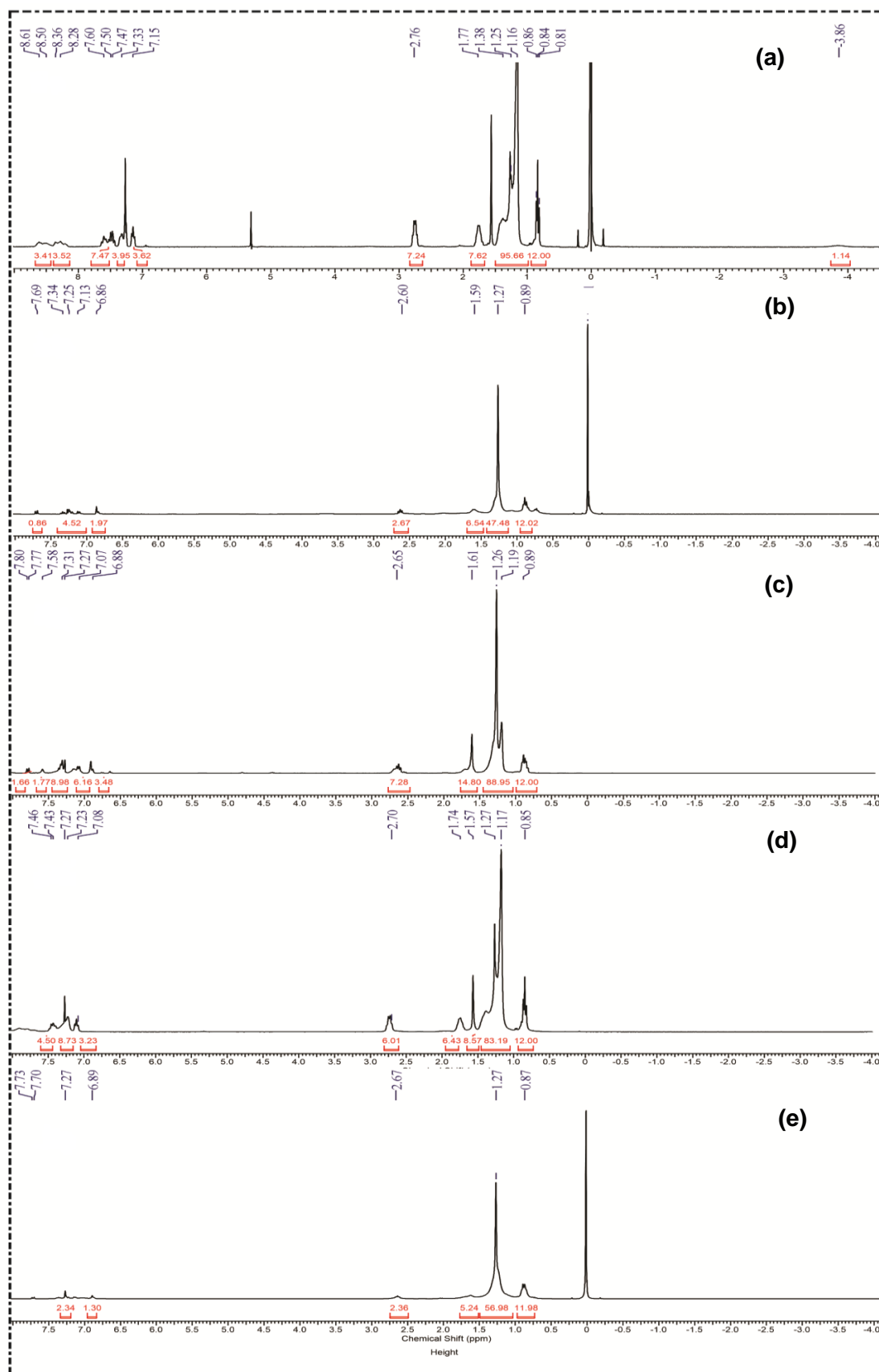
## Nanomaterials based on Fe<sub>3</sub>O<sub>4</sub> and phthalocyanines derived from cashew nut shell liquid

**Viviane G. P. Ribeiro**<sup>1</sup>, **João P. F. Mota**<sup>1</sup>, **Antônio E. Costa Júnior**<sup>1</sup>, **Nayane M. A. Lima**<sup>1</sup>, **Pierre B. A. Fechine**<sup>2</sup>, **Juliano C. Denardin**<sup>3</sup>, **Luigi Carbone**<sup>4</sup>, **Ermelinda Bloise**<sup>5</sup>, **Giuseppe Mele**<sup>5\*</sup> and **Selma E. Mazzetto**<sup>1</sup>

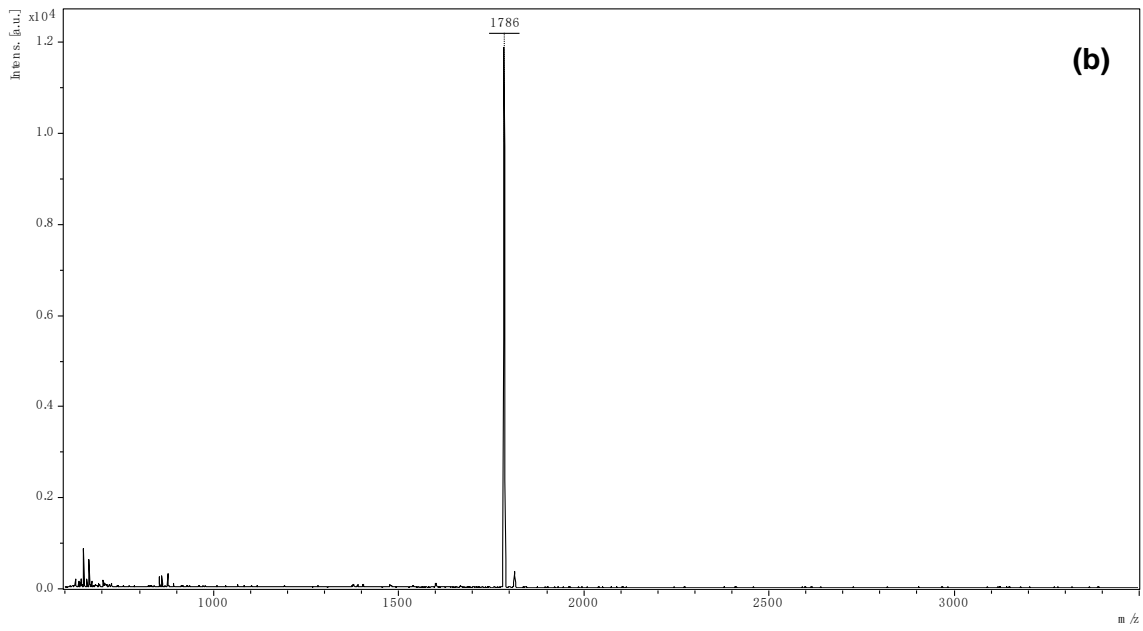
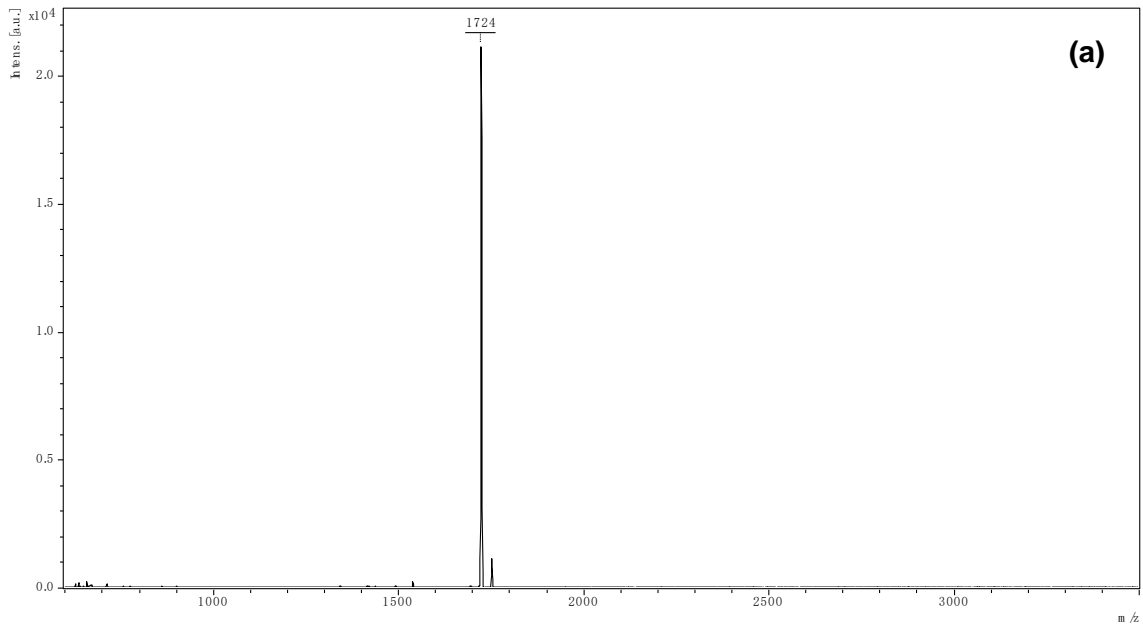
- <sup>1</sup> Laboratory of Products and Process Technology (LPT), Organic and Inorganic Chemistry Department, Federal University of Ceará (UFC), Campus do Pici, 60440-900, Fortaleza-CE, Brazil; vivianegpribeiro@live.com (V.R.); jpfmpro@gmail.com (J.P.); eufraziojr@yahoo.com.br (A.E); nayaneal@yahoo.com.br (N. L.); selma@ufc.br (S.M.)
  - <sup>2</sup> Group of Chemistry of Advanced Materials (GQMat) – Department of Analytical Chemistry and Physical-Chemistry, Federal University of Ceará – UFC, Campus do Pici, CP 12100, CEP 60451-970 Fortaleza, CE, Brazil; fechine@ufc.br (P.F.)
  - <sup>3</sup> Department of Physics, Universidad de Santiago de Chile and CEDENNA, USACH, Av. Ecuador, 3493 Santiago, Chile; juliano.denardin@usach.cl (J.D.)
  - <sup>4</sup> CNR NANOTEC-Istituto di Nanotecnologia, c/o Campus Ecotekne, Università del Salento, Via Monteroni, 73100 Lecce, Italy; luigi.carbone@nanotec.cnr.it (L.C.)
  - <sup>5</sup> Department of Engineering for Innovation, University of Salento, Via Arnesano, 73100, Lecce, Italy; ermelinda.bloise@unisalento.it (E.B.); giuseppe.mele@unisalento.it (G.M.)
- \* Correspondence: giuseppe.mele@unisalento.it

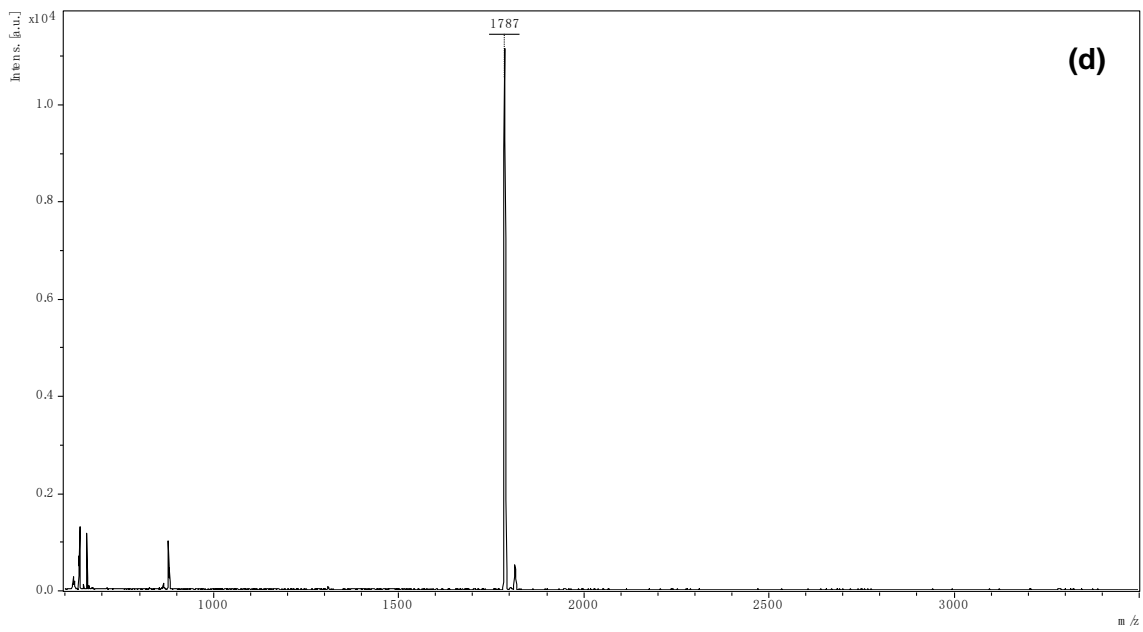
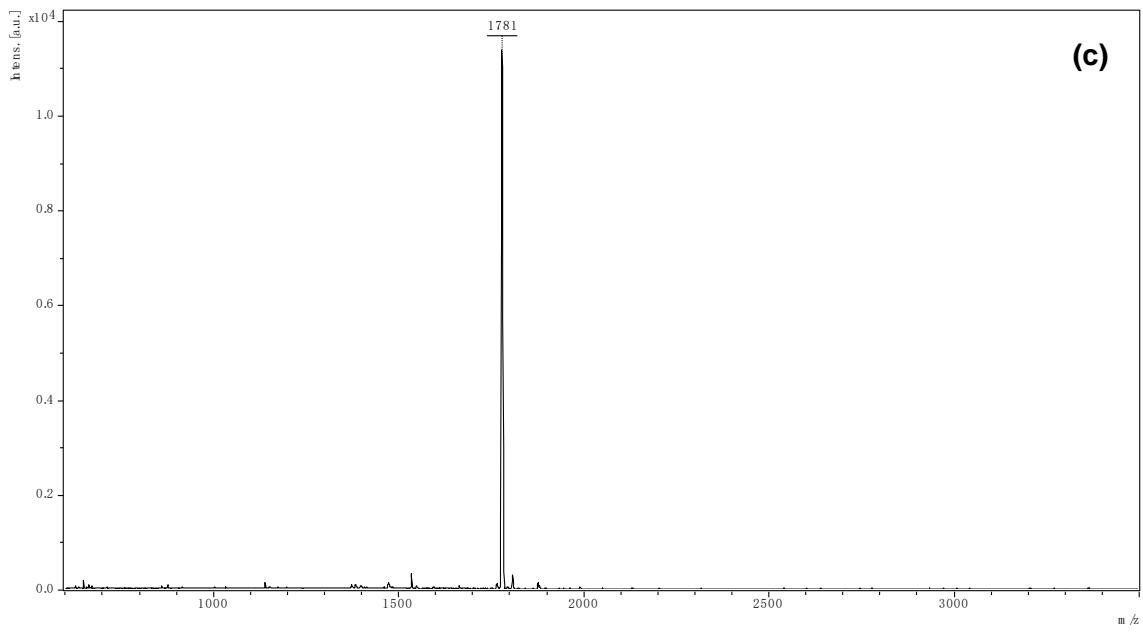


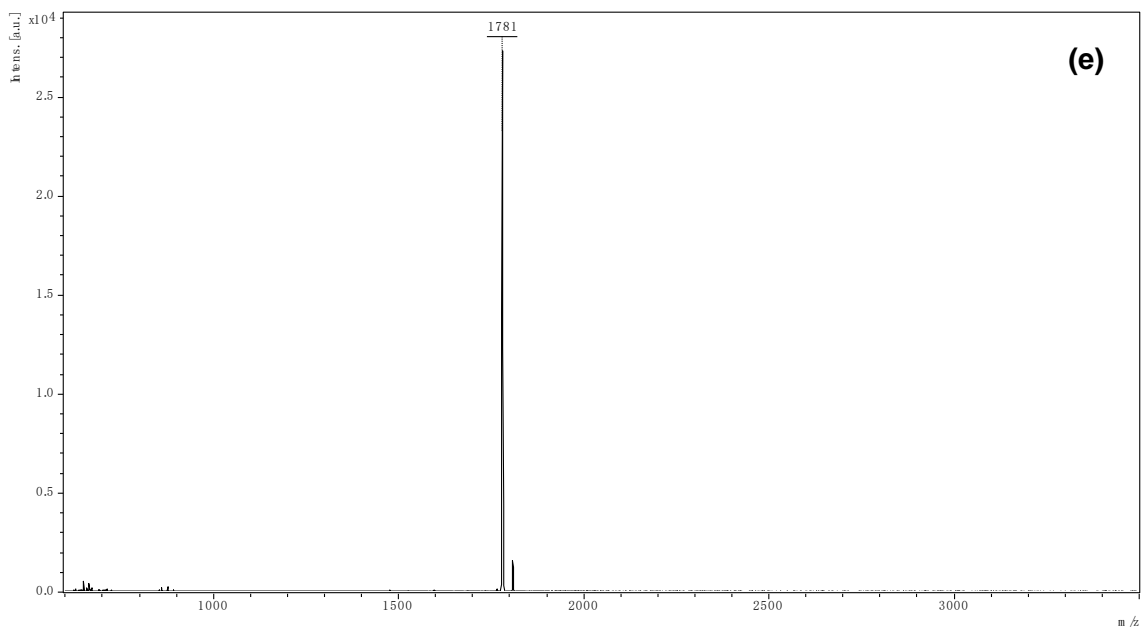
**Figure S2.**  $^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of the (a) Pc, (b) CoPc, (c) CuPc, (d) NiPc and (e) ZnPc.



**Figure S3.** Mass Spectra (MALDI-TOF-MS) of the (a) Pc, (b) CuPc, (c) NiPc, (d) ZnPc and (e) CoPc.







**Figure 1.**  $^{13}\text{C}$  NMR (300 MHz,  $\text{CDCl}_3$ ) of the (a) Pc, (b) CoPc, (c) CuPc, (d) NiPc and (e) ZnPc.