

## Electronic Supplementary Information

# **Rapid extraction of trace bisphenol A in real water samples using hollow mesoporous silica surface dummy molecularly imprinted polymers**

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### **1. Equations**

The pseudo-first-order rate equation is listed as follows:

$$\ln(Q_e - Q_t) = \ln Q_e - k_1 t \quad (1)$$

where  $Q_e$  and  $Q_t$  (mg/g) are the amount of BPA adsorbed on HM-DMIPs at equilibrium and time  $t$ , respectively.  $k_1$  ( $\text{cm}^{-1}$ ) is the rate constant of pseudo-first-order model.

The pseudo-second-order rate equation is listed as follows:

$$\frac{t}{Q_t} = \frac{1}{k_2 Q_e^2} + \left(\frac{1}{Q_e}\right)t \quad (2)$$

where  $k_2$  is the rate constant of pseudo-second-order model.

## 2. Supporting data

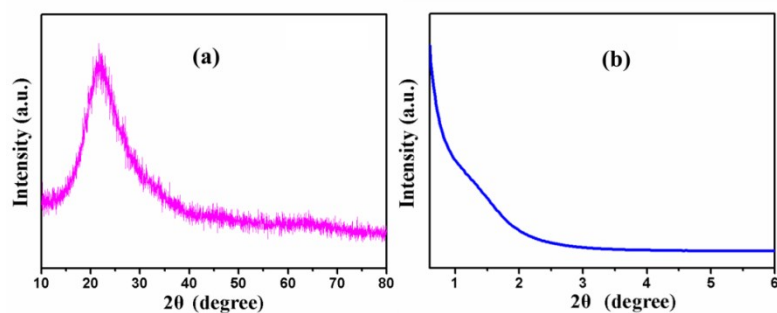


Fig.S1 Wide-angle (a) and low-angle (b) XRD spectra of HM-DMIPs

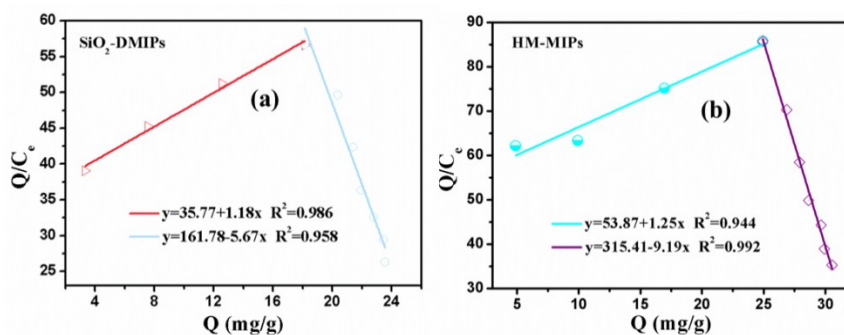


Fig.S2 Scatchard plots of SiO<sub>2</sub>-DMIPs (a) and HM-MIPs (b)

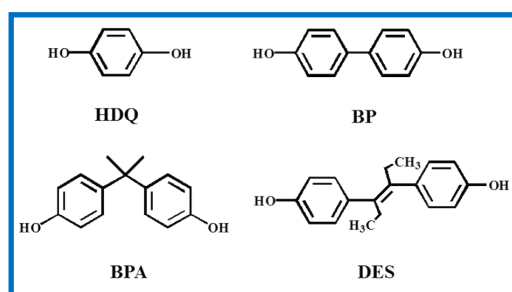


Fig.S3 Molecular structure of analogs used in this work

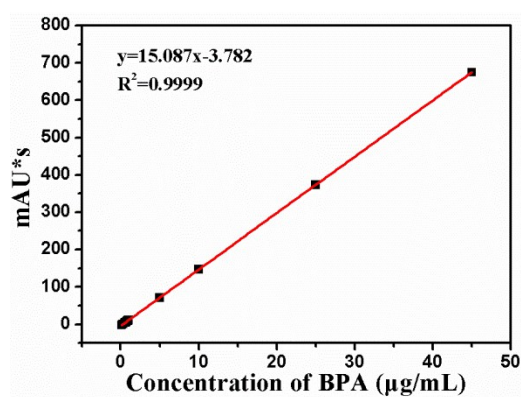


Fig.S4 Calibration curve for the determination of BPA by HPLC/UV

