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## **Supplementary Information**

Synthesis and characterization of poly(styrene-block-acrylic acid)/ $Fe_3O_4$  magnetic nanocomposite using reversible addition—fragmentation chain transfer polymerization

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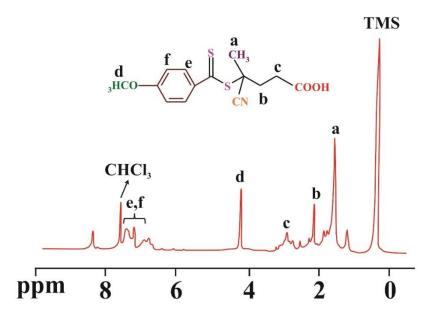
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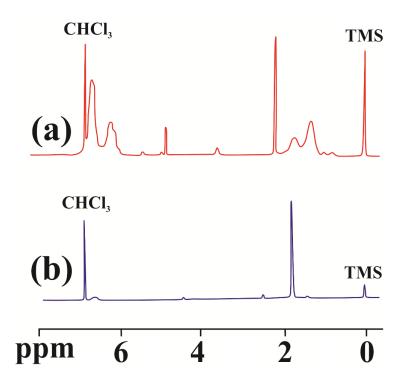
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**Figure S1.** The <sup>1</sup>H NMR spectrum of 4-cyano-4-[(phenylcarbonothioyl) sulfanyl] pentatonic acid.



**Figure S2.** The <sup>1</sup>H NMR spectra of PSt–CTA (a) and PSt-*b*-PAA (b).