

Supporting Information

Synthesis and Luminescence Properties of Core-Shell-Shell Composites: SiO₂@PMDA-Si-Tb@SiO₂ and SiO₂@PMDA-Si-Tb-phen@SiO₂

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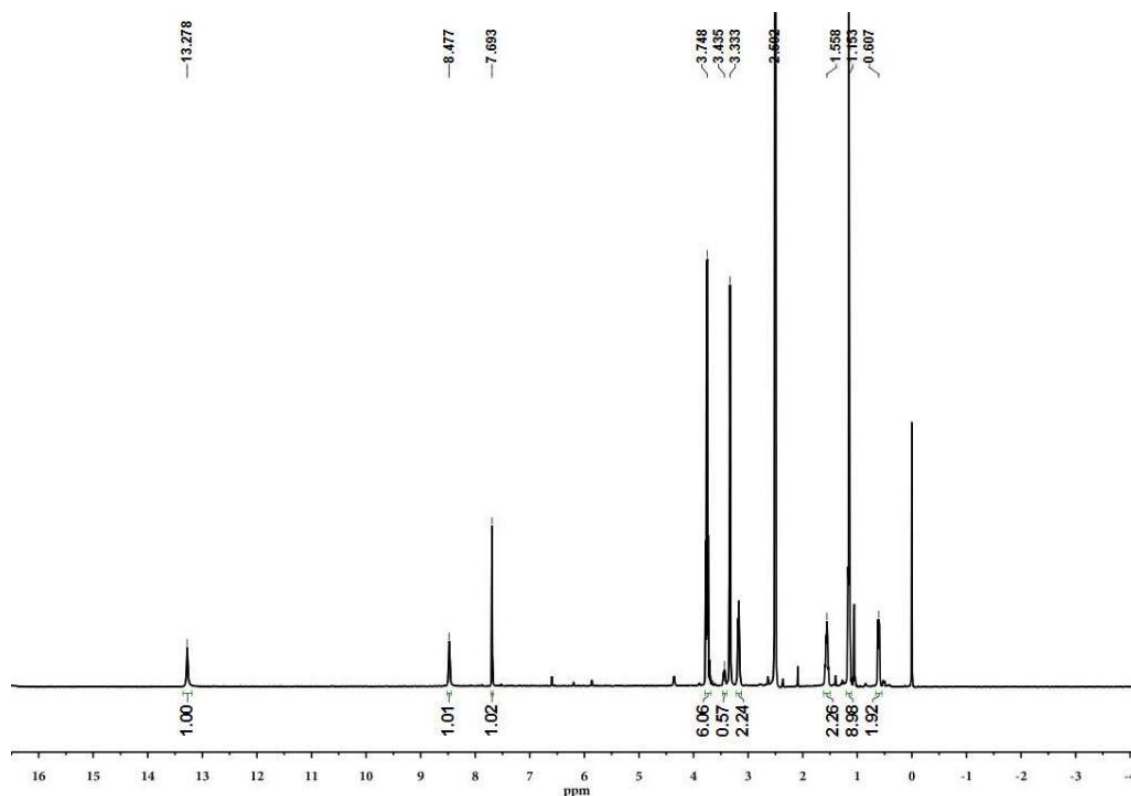


Figure S1. The ¹H-NMR of PMDA-Si.

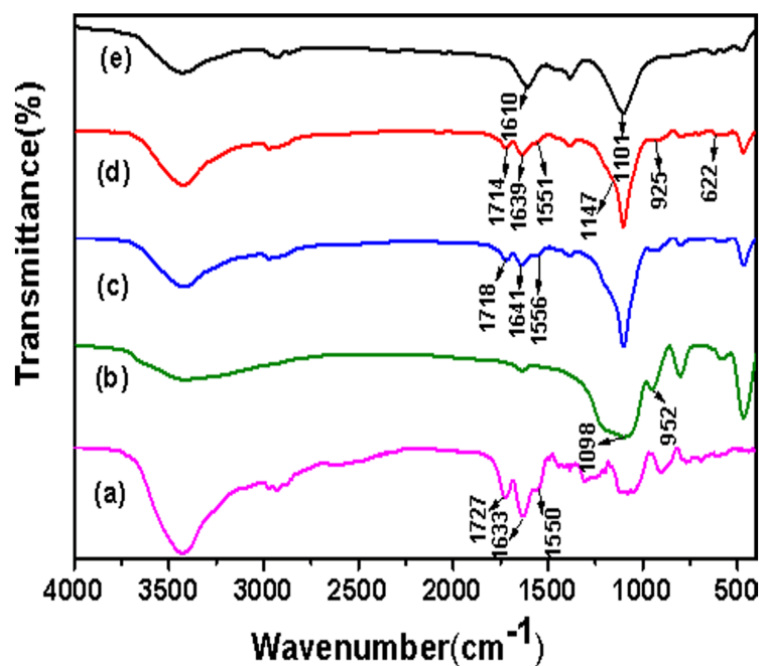


Figure S2. FT-IR spectra of PMDA-Si (a), SiO₂ (b), SiO₂@PMDA-Si (c), SiO₂@PMDA-Si-Tb (d), and SiO₂@PMDA-Si-Tb@SiO₂ (e).

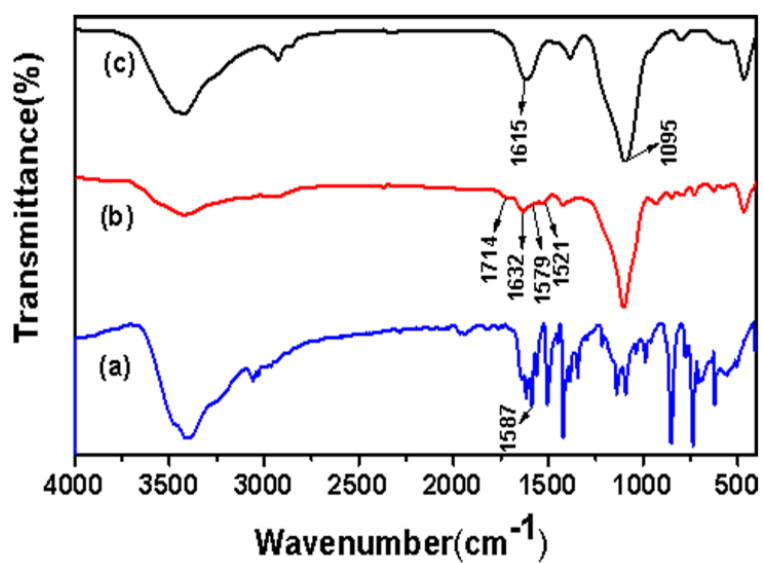


Figure S3. FT-IR spectra of phen (a), SiO₂@PMDA-Si-Tb-phen (b), and SiO₂@PMDA-Si-Tb-phen@SiO₂ (c).

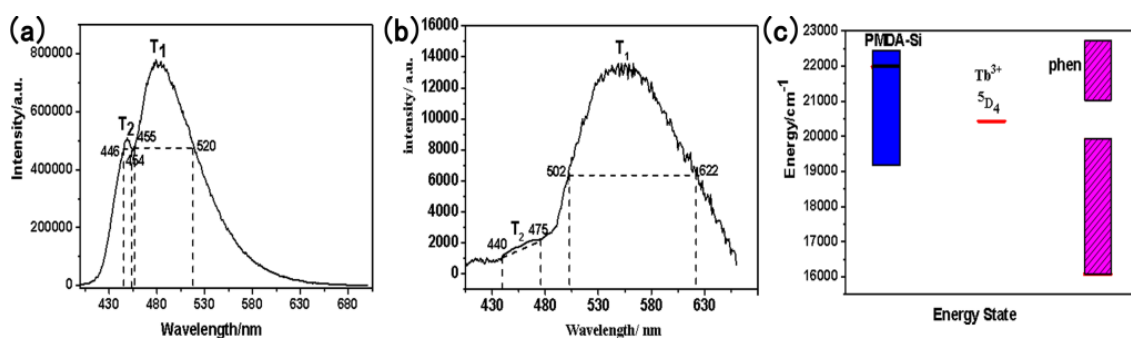


Figure S4. Phosphorescence spectra of PMDA-Si (a) and phen (b), Triplet state of PMDA-Si, phen and the excited state of Tb(III) (c).