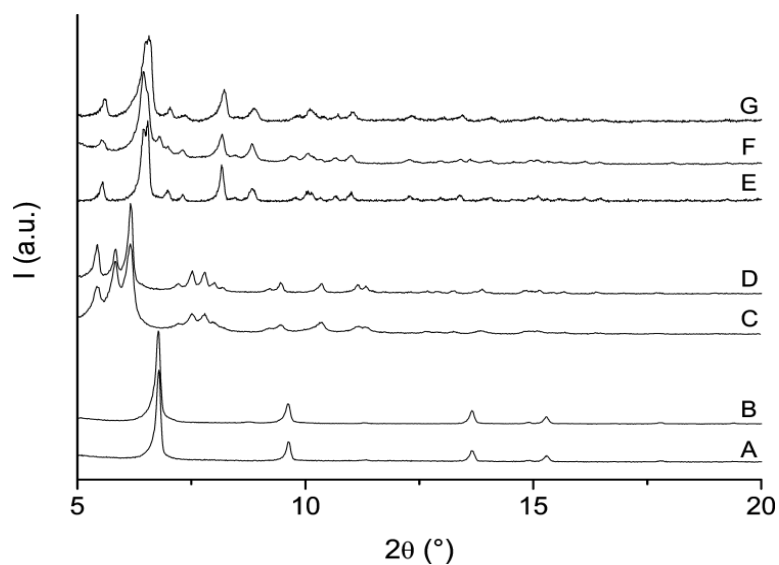
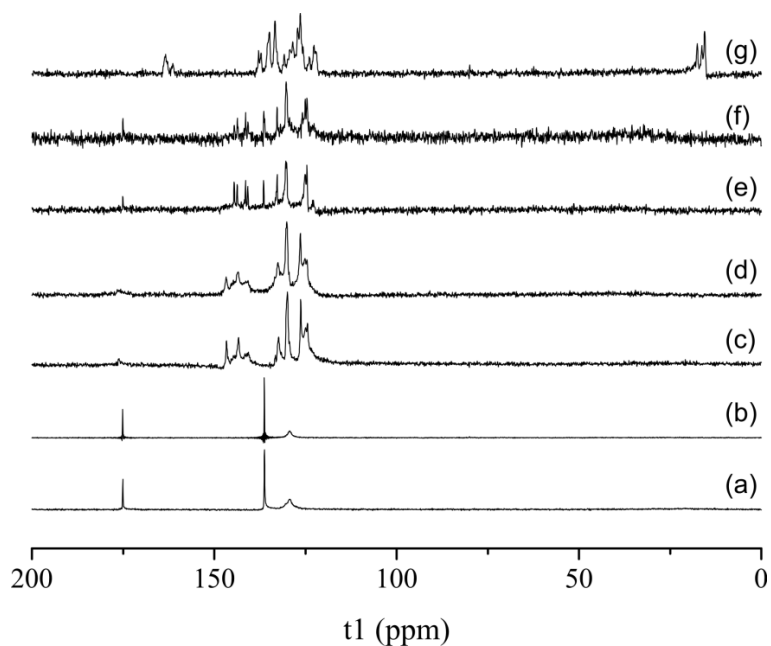


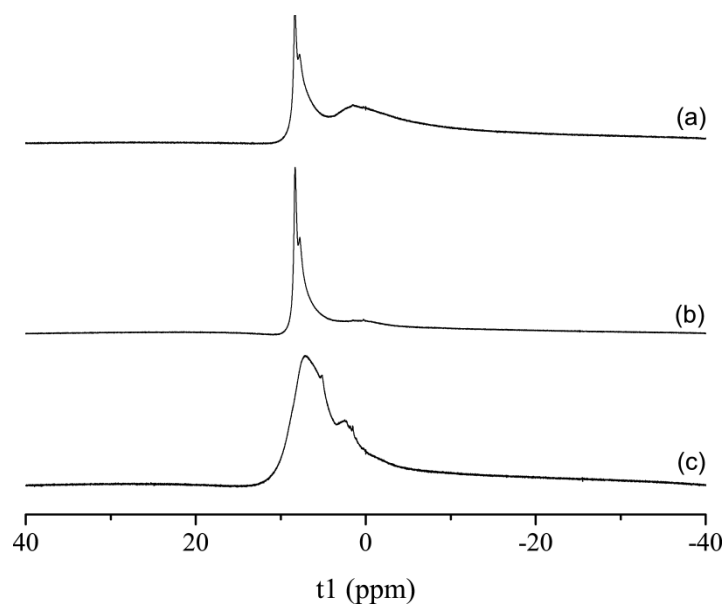
## Supporting Information



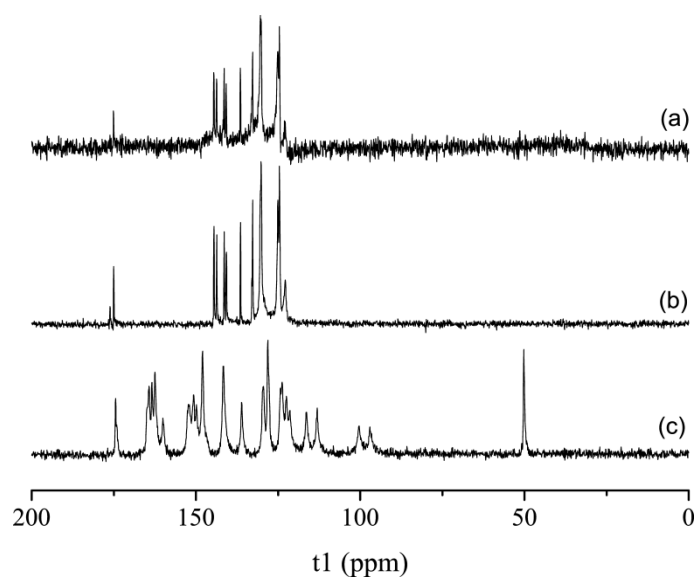
**Figure S1.** PXRD pattern of empty MOF-5 (A), DXP@MOF-5 (B), empty MOF-177 (C), DXP@MOF-177 (D), empty UMCM-1 (E), DXP@UMCM-1 (F) and Flrpic@UMCM-1 (G).



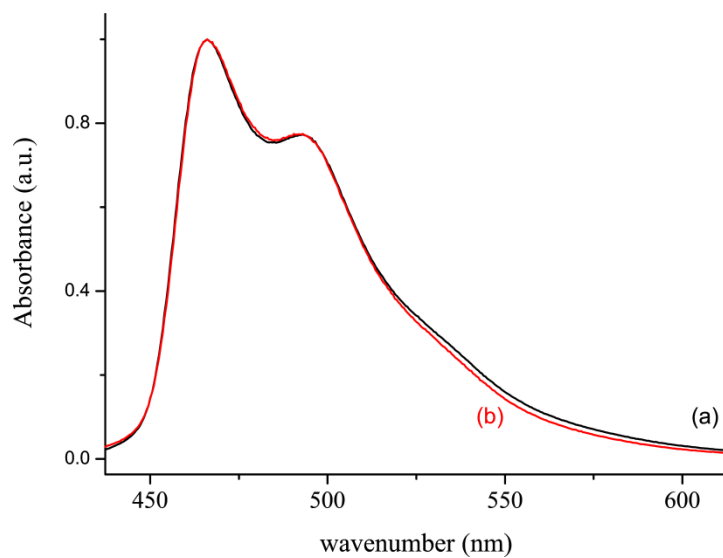
**Figure S2.**  $^{13}\text{C}$  MAS-NMR spectra of MOF-5 (a), DXP@MOF-5 (b), MOF-177 (c), DXP@MOF-177 (d), UMCM-1 (e), DXP@UMCM-1 (f), and pure DXP (g).



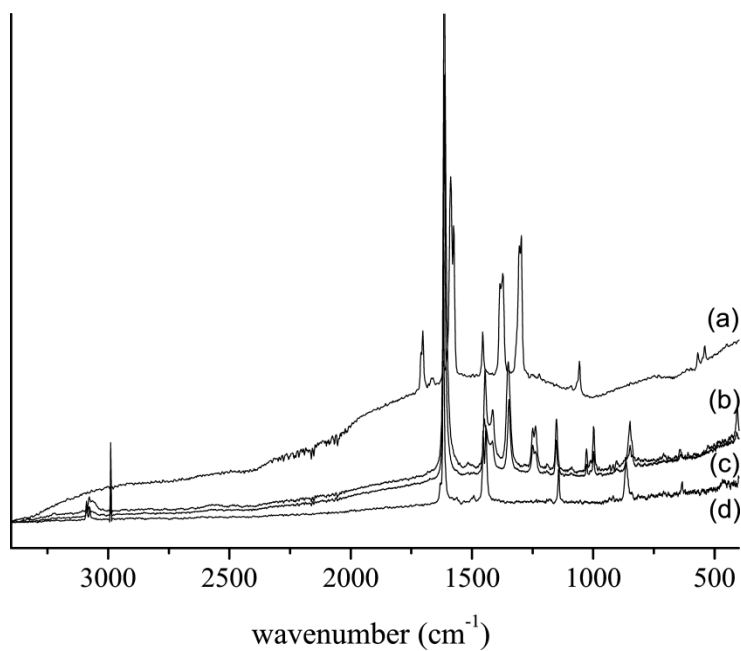
**Figure S3.**  $^1\text{H}$  MAS-NMR spectra of UMCM-1 (a), Firpic@UMCM-1 (b) and Firpic.



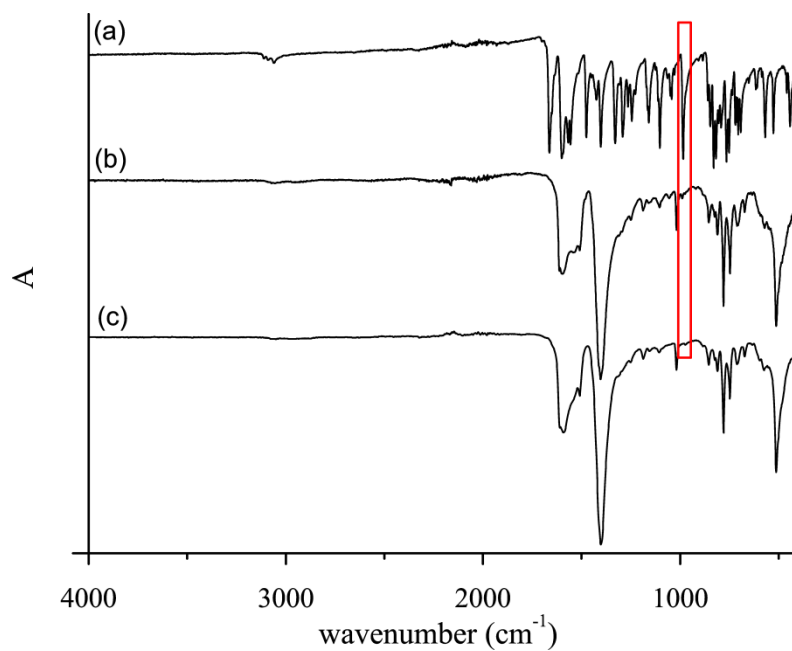
**Figure S4.**  $^{13}\text{C}$  MAS-NMR spectra of UMCM-1 (a), Firpic@UMCM-1 (b) and Firpic (c).



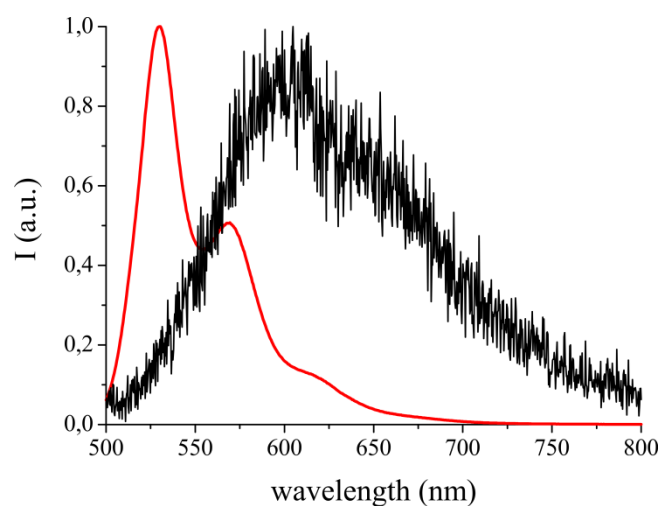
**Figure S5.** Emission spectra ( $\lambda_{\text{ex}} = 365 \text{ nm}$ ) of FIrpc@UMCM-1 (a) and FIrpc (b) suspended in Toluene.



**Figure S6.** Raman spectra of DXP (a), DXP@MOF-5 (b), DXP@MOF-177 (c) and DXP@UMCM-1 (d).



**Figure S7.** IR spectra of FIrpic (a), FIrpic@UMCM-1 (b) and UMCM-1 (c).



**Figure S8.** Emission spectra of DXP@MOF-5 (bulk material suspended in toluene, red curve) and DXP@MOF-5 (solvent free single crystal with high dye loading, black curve).