Supporting Information

One-dimensional MOFs-derived magnetic composites for efficient microwave absorption at ultralow thickness through controllable hydrogen reduction

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**Fig. S1** SEM images of (a-b) O-550, (c-d) O-650.
Fig. S2 Elemental mapping of (a) HR-250, (b) HR-350, (c) HR-450, (d) HR-550 and (e) HR-650.

Fig. S3 Raman spectra of reduced products.
Fig. S4 Attenuation constants curves of reduced products.

Fig. S5 $|Z_{\text{in}}/Z_0|$ values as a function of frequency of reduced products.