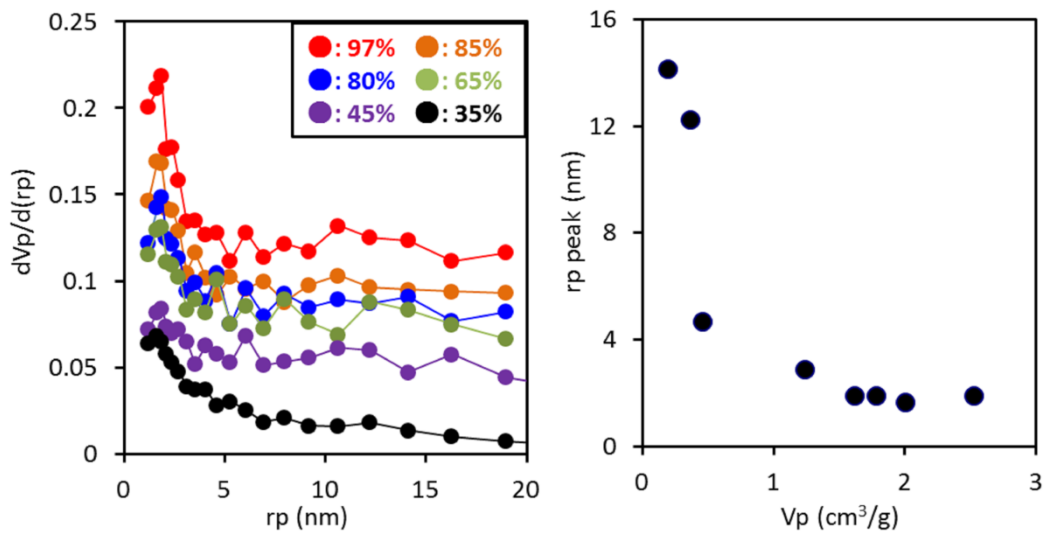**Supplemental information (Supplemental Figure)**

Fig. S1 The pore size distribution estimated by Barrett-Joyner-Halenda (BJH) method from nitrogen adsorption isotherms. The pore size distribution showed a monotonic decrease as the purity decreased.