Electronic Supplementary Material (ESI) for Inorganic Chemistry Frontiers

Supporting Information

Room-temperature ABX_3-typed Molecular Ferroelectric:$[C_5H_9\text{-}NH_3]CdCl_3$

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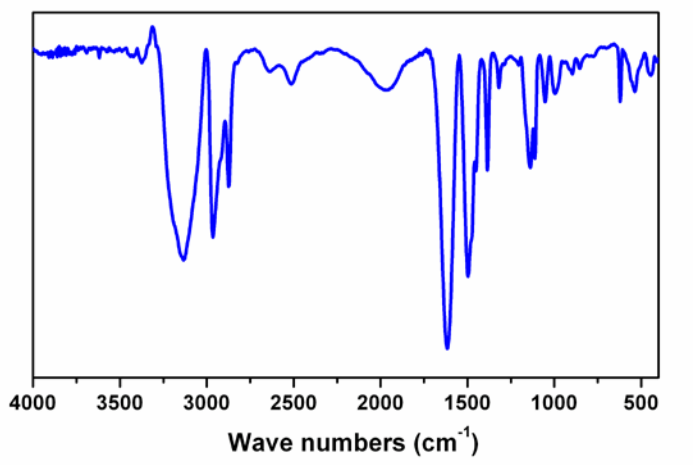

Fig. S1 IR spectrum of **1** indicating there is strong peak of $R\text{-}NH_3^+$ group at about 3200cm^{-1}.

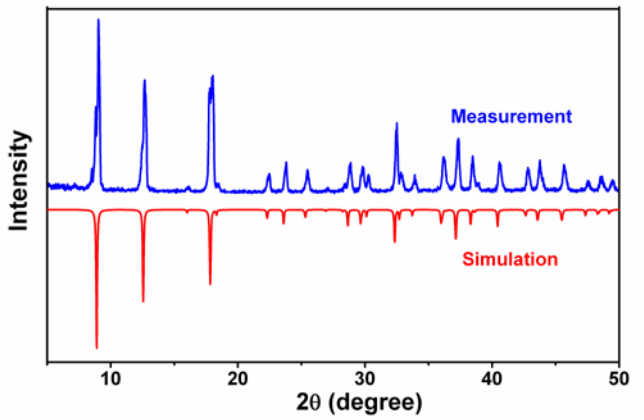

Fig. S2 The matching status of XRD diffraction pattern of bulk sample and single crystal of **1**, showing that the sample we obtained is pure.

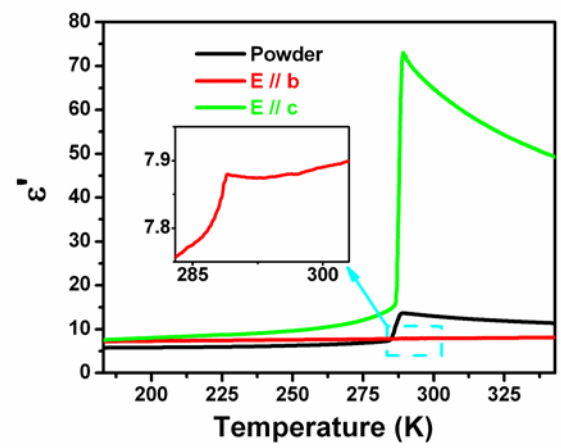

Fig. S3 The temperature-dependent dielectric constants measured along *b*- and *c*-axis as well as powdered mode.

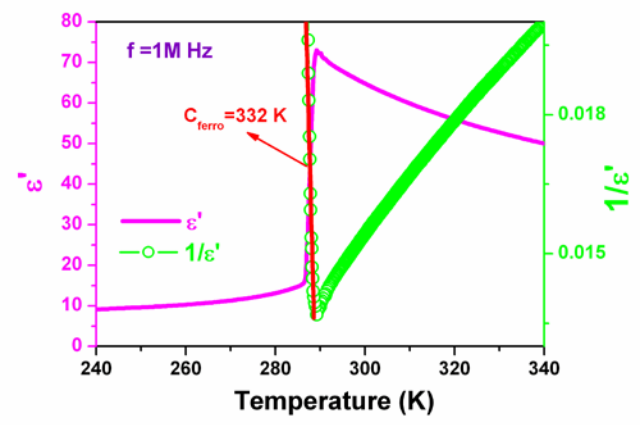

Fig. S4 The reciprocal dielectric susceptibility (ε′) as a function of temperature showing that below T_c it is linear and above T_c in very narrow range is also linear.

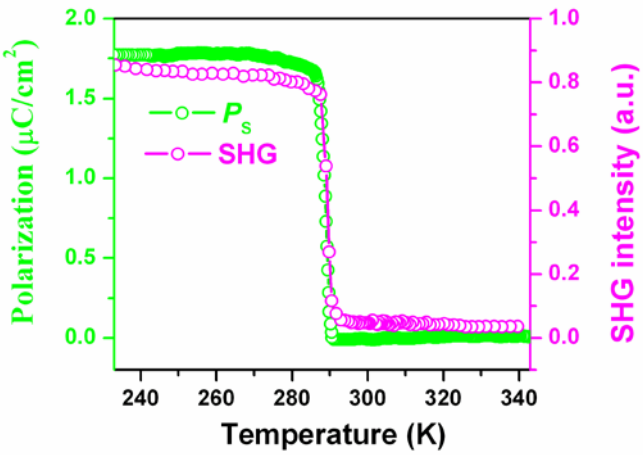

Fig. S5 The normalization of the temperature-dependent P_s and SHG effect, showing that they are almost overlapped.