

Preparations of compounds **1** and **2**

[*m*-BrBz-1-APy] I_3 (**1**) was prepared by 3-bromobenzaldehyde (2 mmol) with 1-aminopyridinium iodide (2 mmol) in ethanol (10 cm³). The solution was heated under reflux for 5 h. On cooling the product was separated out and washed with ether. The methanol solution of iodine (2 mmol) was slowly added to methanol solution of [*m*-BrBz-1-APy] I_3 (2 mmol) at room temperature. The solution was slowly evaporated and red block crystals **2** were obtained after 7 days. Yield: 75%. Anal. Calc. For C₁₂H₁₀N₂BrI₃: C, 22.42; H, 1.57; N, 4.36. Found: C, 22.65; H, 1.48; N, 4.25.

[*o*-FBz-1-APy]I (**2**). Yield: 80%. Anal. Calc. For C₁₂H₁₀N₂FI₃: C, 24.76; H, 1.73; N, 4.81. Found: C, 24.65; H, 2.08; N, 4.47.

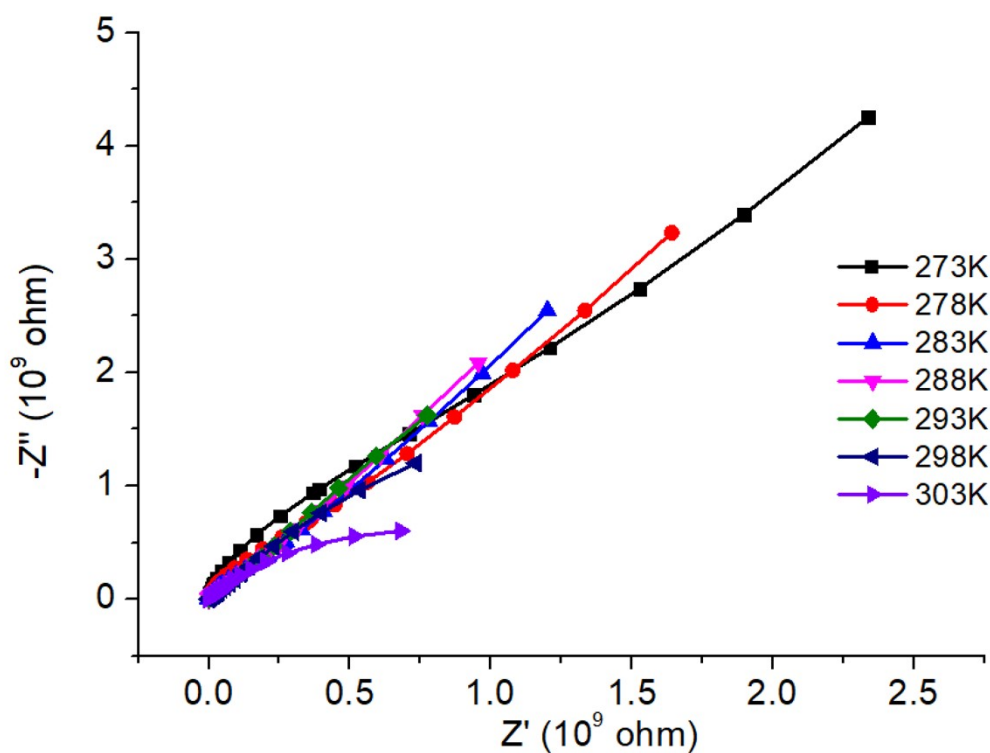


Figure S1. Impedance spectra at the selected temperatures in the range of 273-303 K for **1**

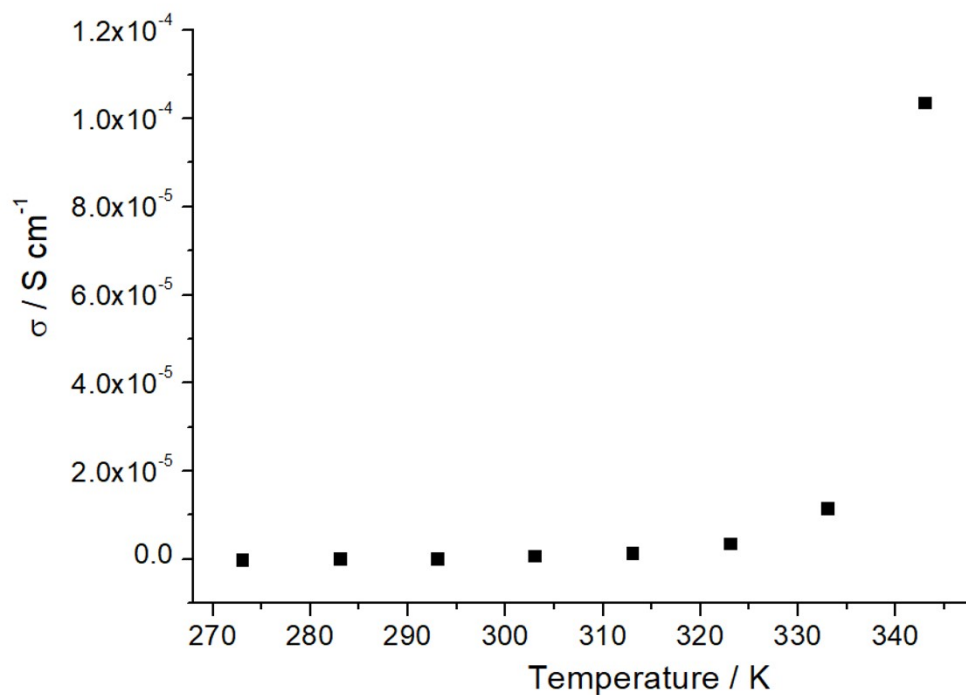


Figure S2. The plot of ionic conductivity versus temperature for **1** showing steeply increase at 343 K.

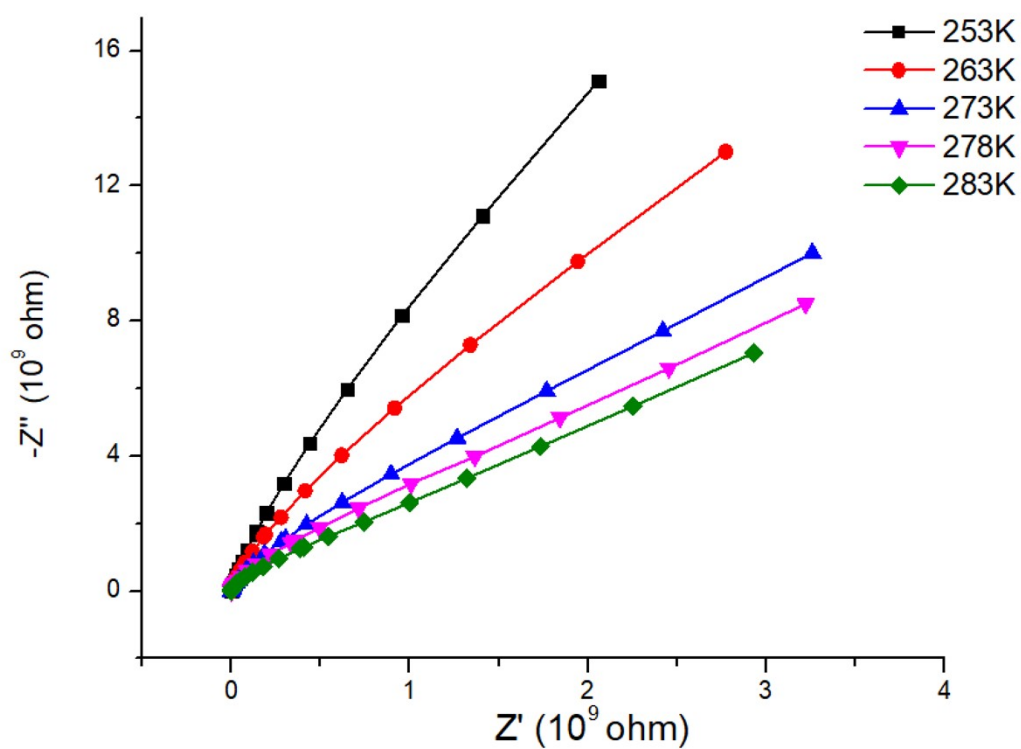


Figure S3. Impedance spectra at the selected temperatures in the range of 253-283 K for **2**.

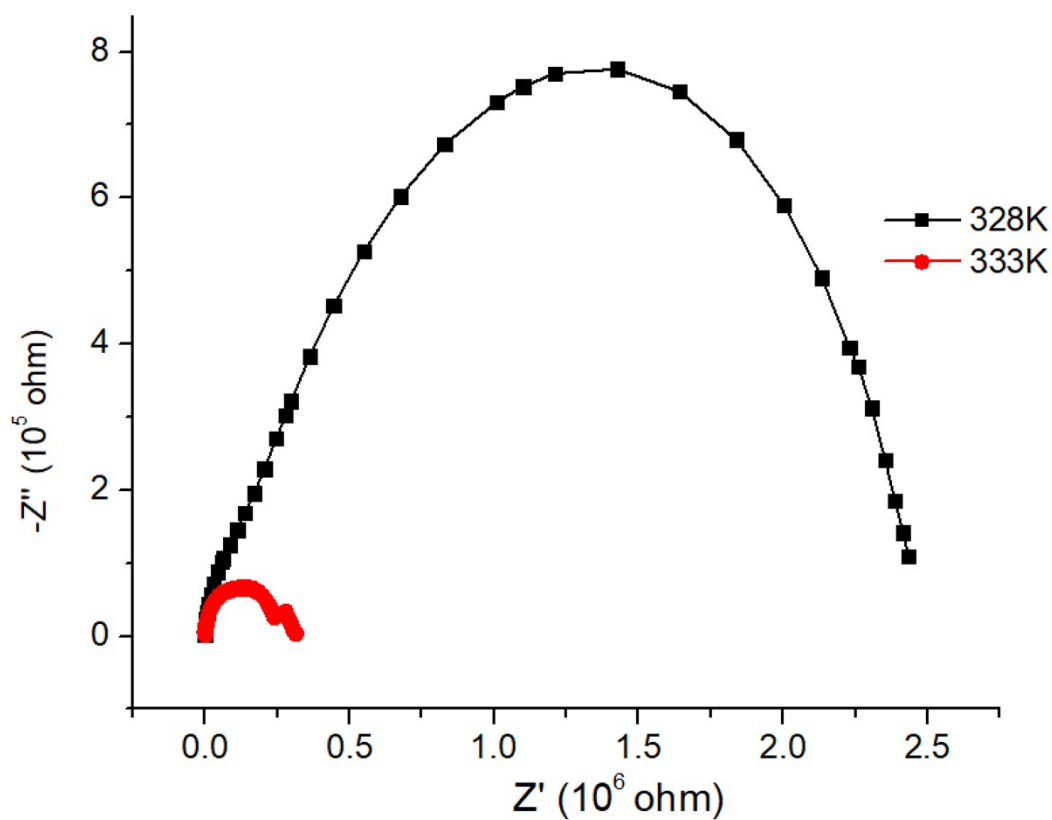


Figure S4. Impedance spectra at the temperatures of 328 and 333 K for **2**.

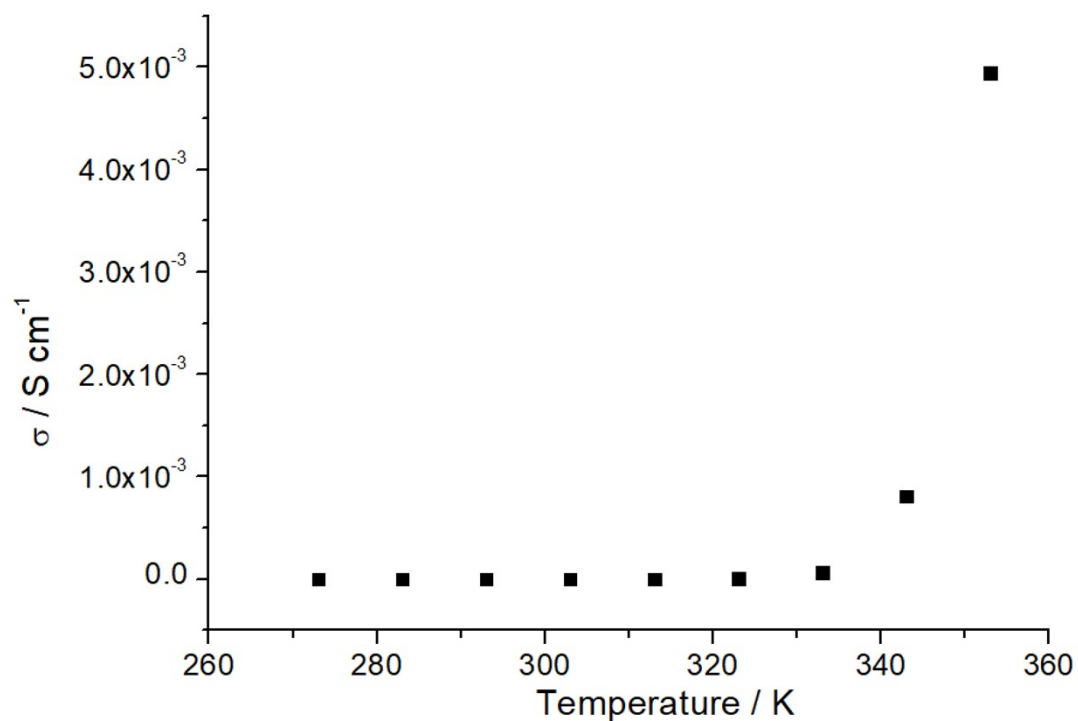


Figure S5. The plot of ionic conductivity versus temperature for **2** showing steeply increase at 353 K.

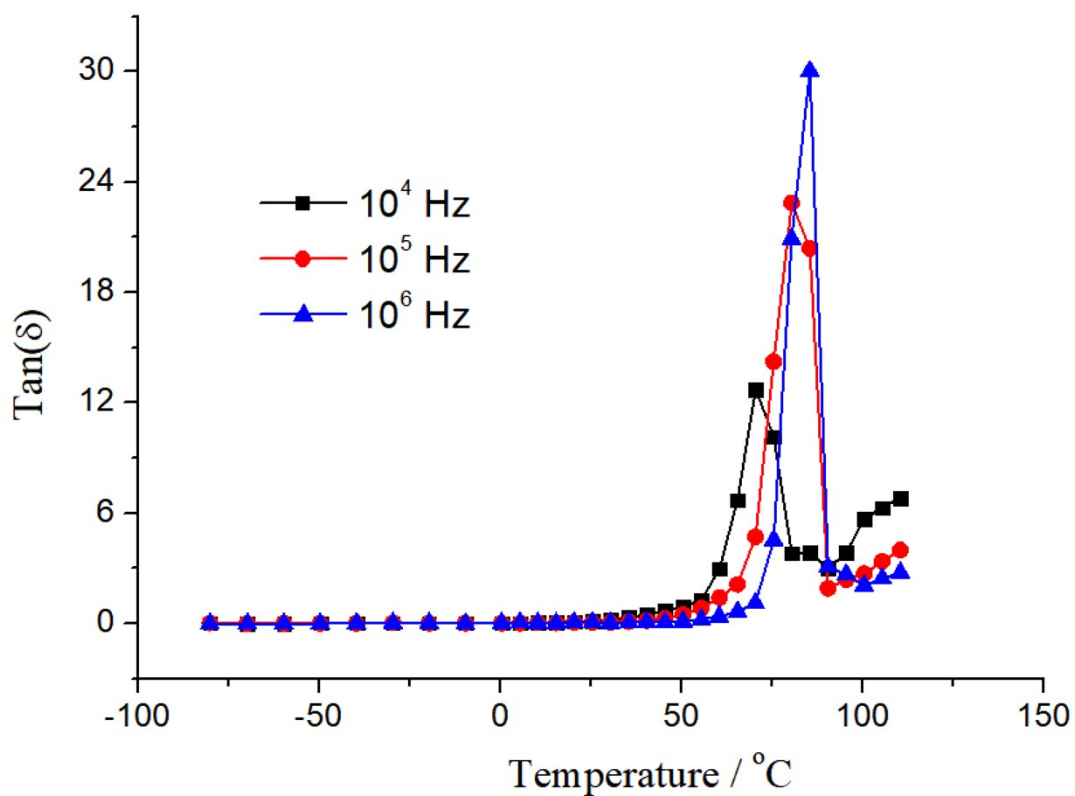


Figure S6. Temperature dependent dielectric loss showing relaxation peak at selected frequency of **1**.

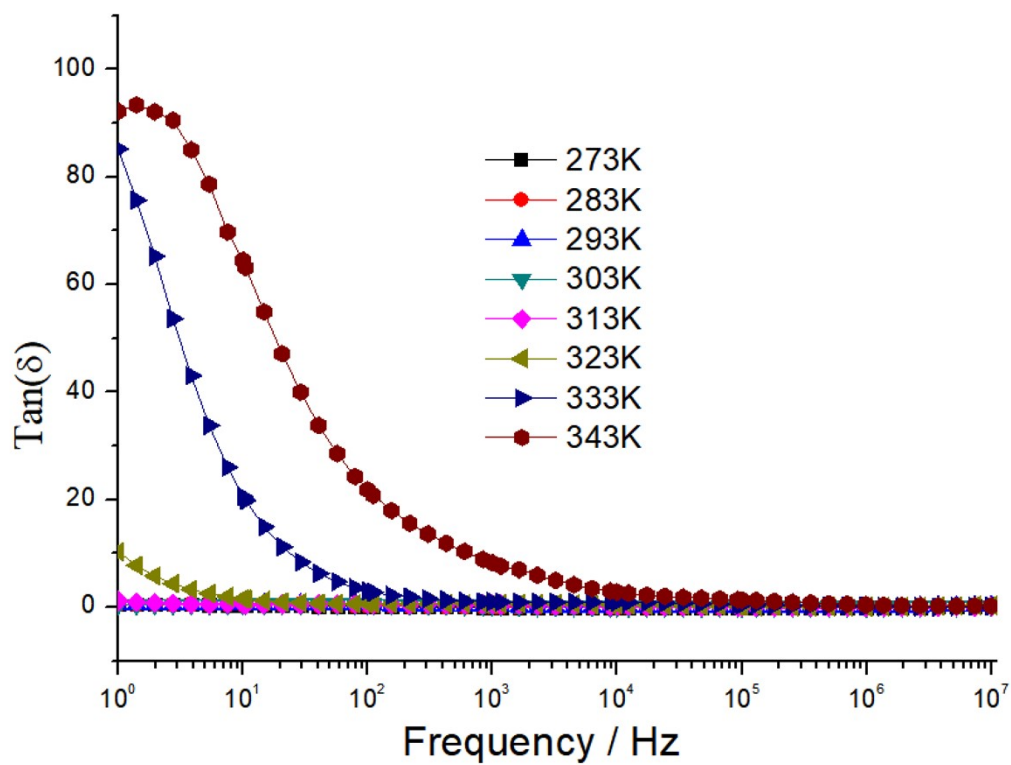


Figure S7. Frequency dependent dielectric loss at selected temperature of **1**.

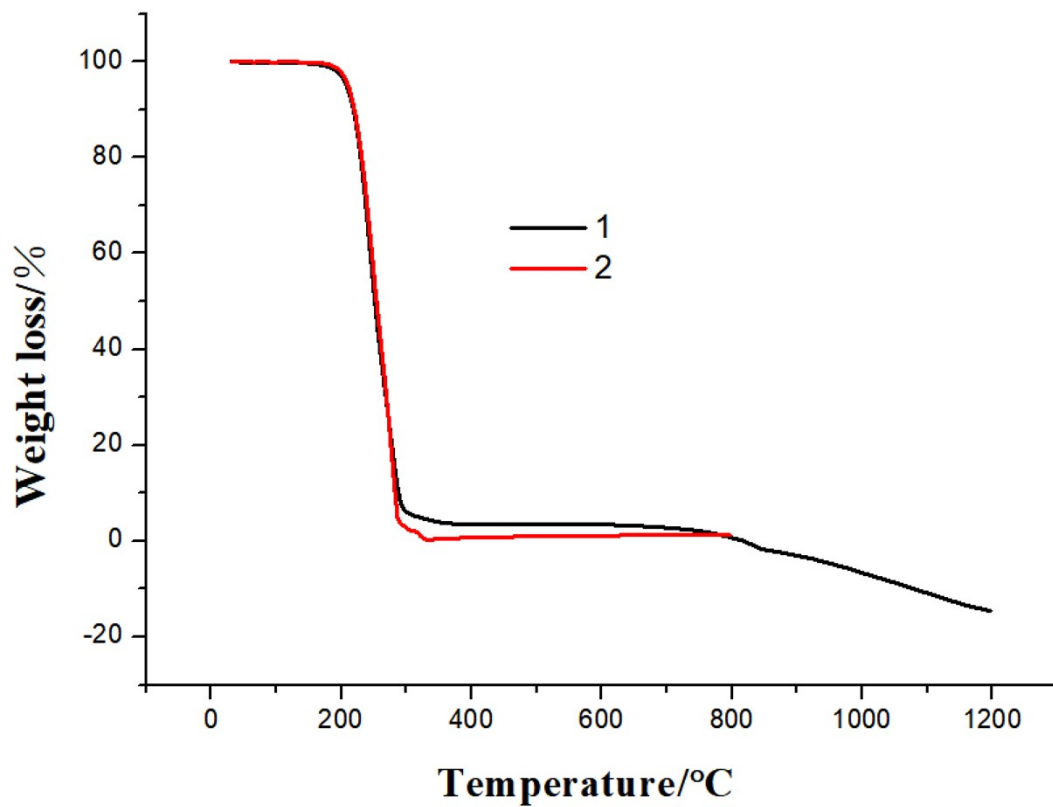


Figure S8. TGA curves of the **1** and **2** under the nitrogen