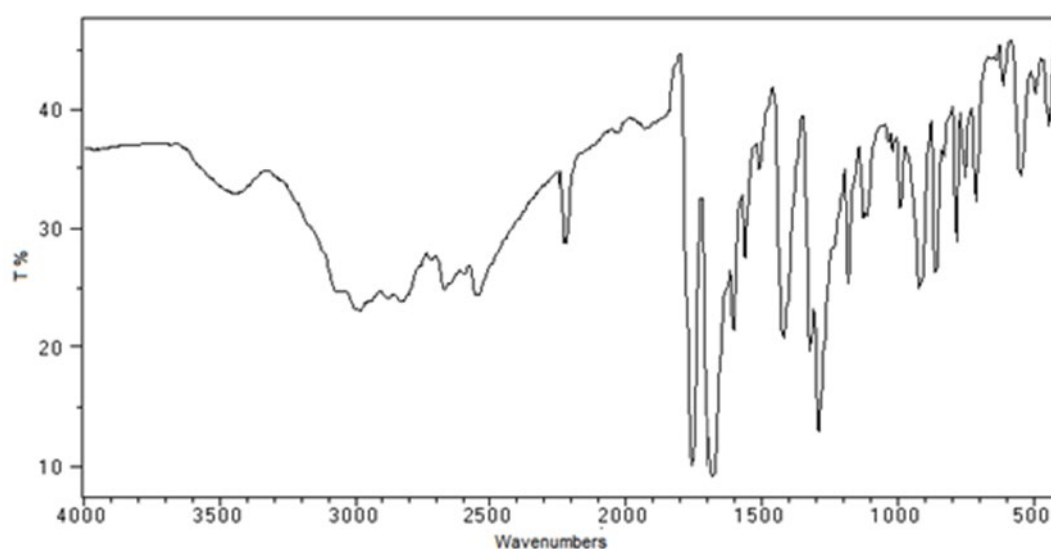
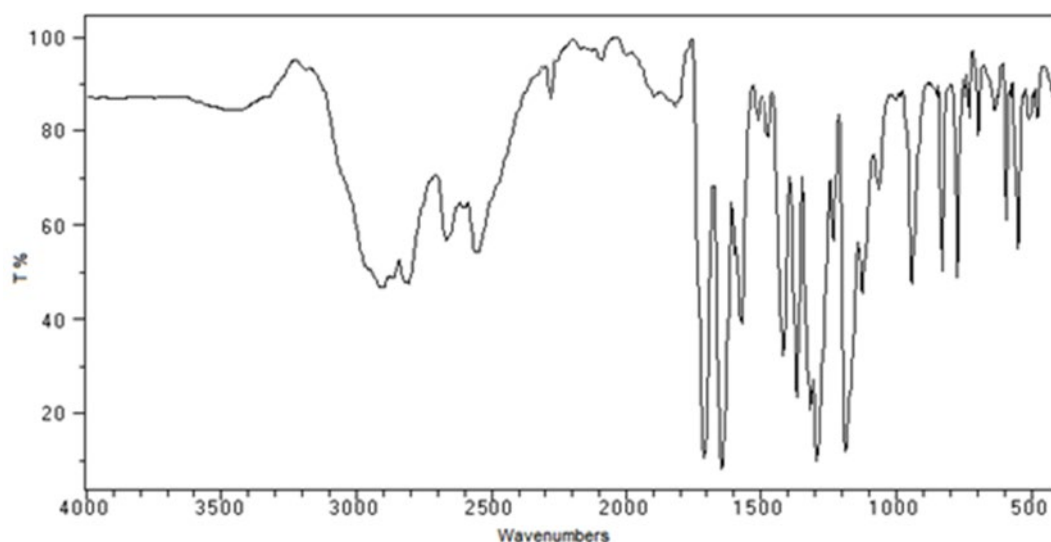


### Supplementary Data

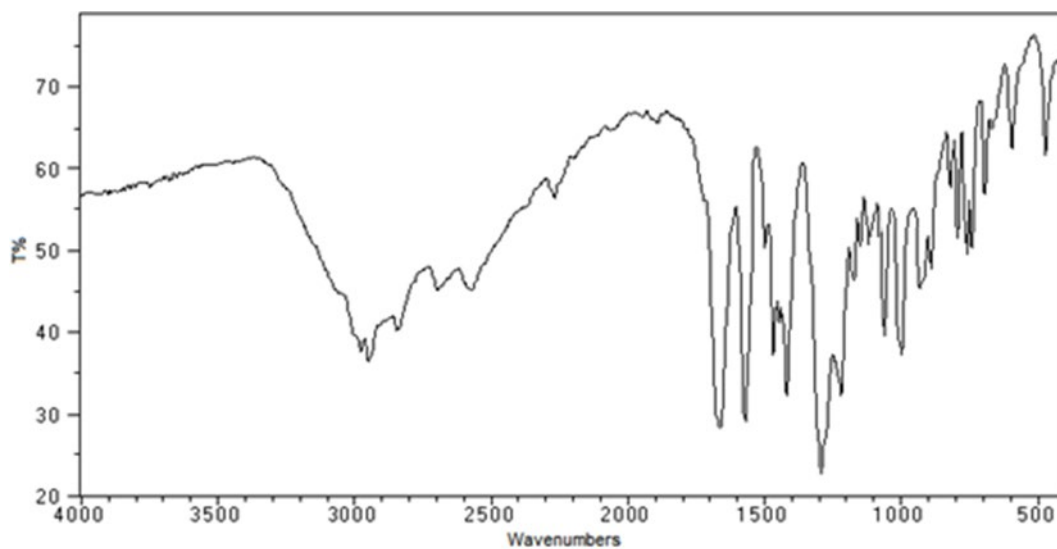
This supplementary data is a part of paper entitled "Synthesis and Characterization of 2,3-Diaminomaleonitrile Derivatives by One Pot Schiff Base Reaction and Their Application in Dye Synthesized Solar Cells".



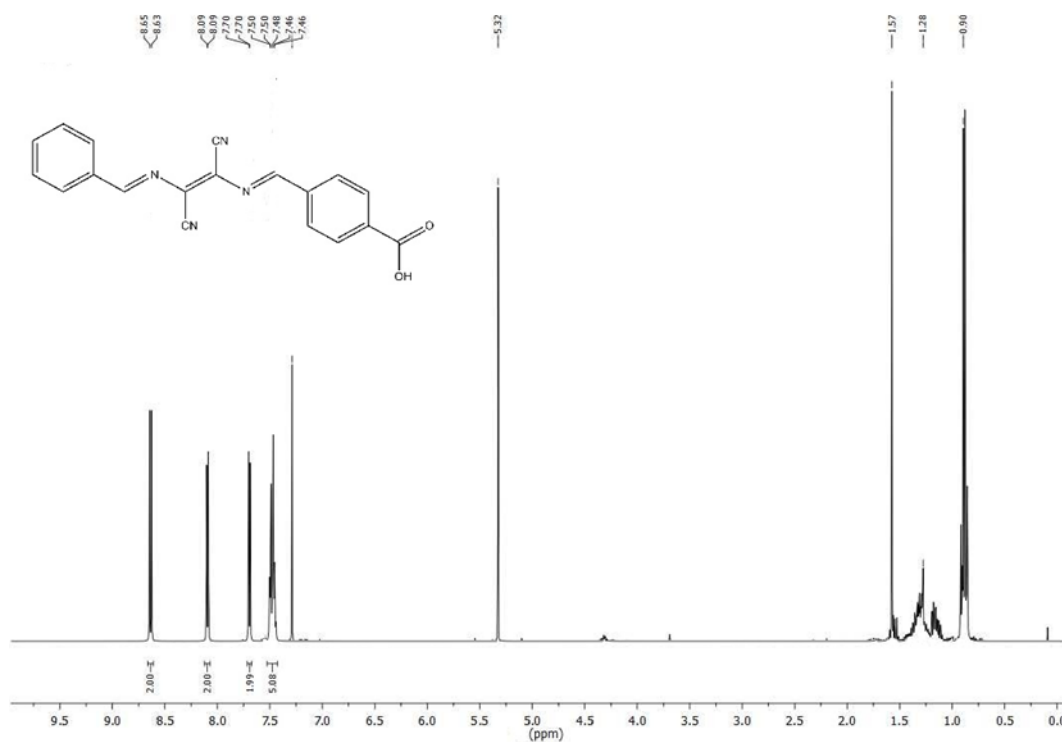
**Fig S1.** (a) FT-IR spectrum of 4-((E)-(((E)-2-((E)-benzylideneamino)-1,2-dicyanovinyl)imino)methyl) benzoic acid (SA1)



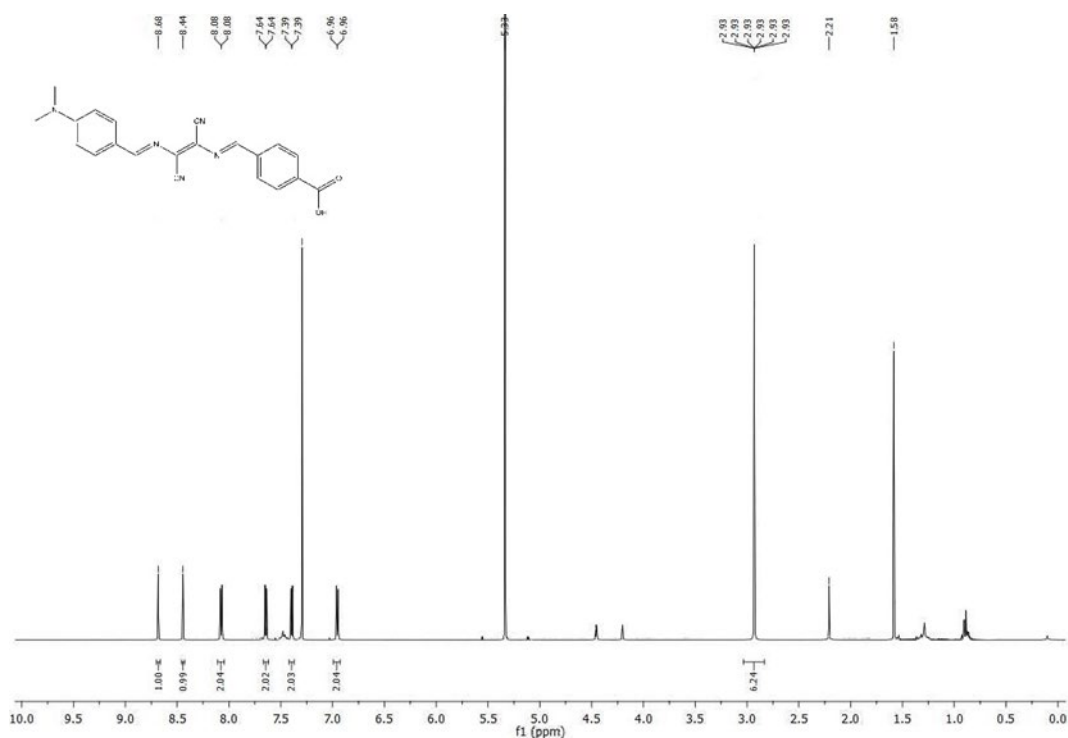
**Fig S1.** (b) FT-IR spectrum of 4-((E)-(((E)-1,2-dicyano-2-((E)-(4-(dimethylamino)benzylidene)amino)vinyl)imino)methyl) benzoic acid (SA2)



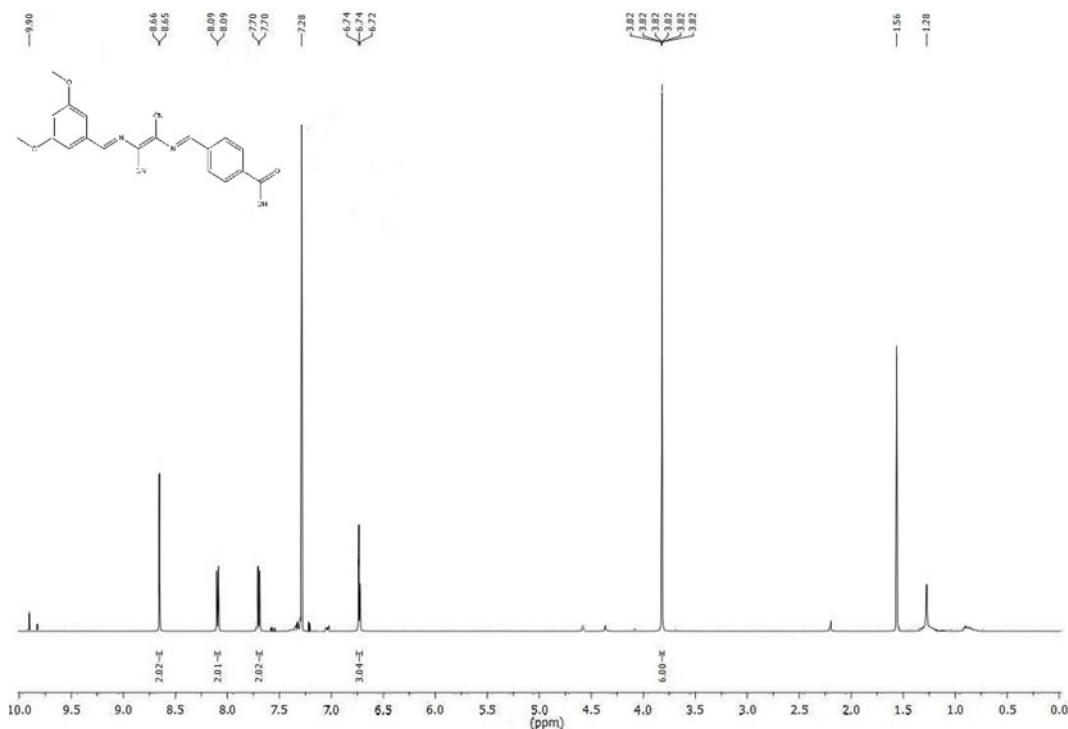
**Fig S1.** (c) FT-IR spectrum of 4-((E)-(((E)-1,2-dicyano-2-((E)-(3,5-dimethoxybenzylidene)amino)vinyl)imino)methyl) benzoic acid (SA3)



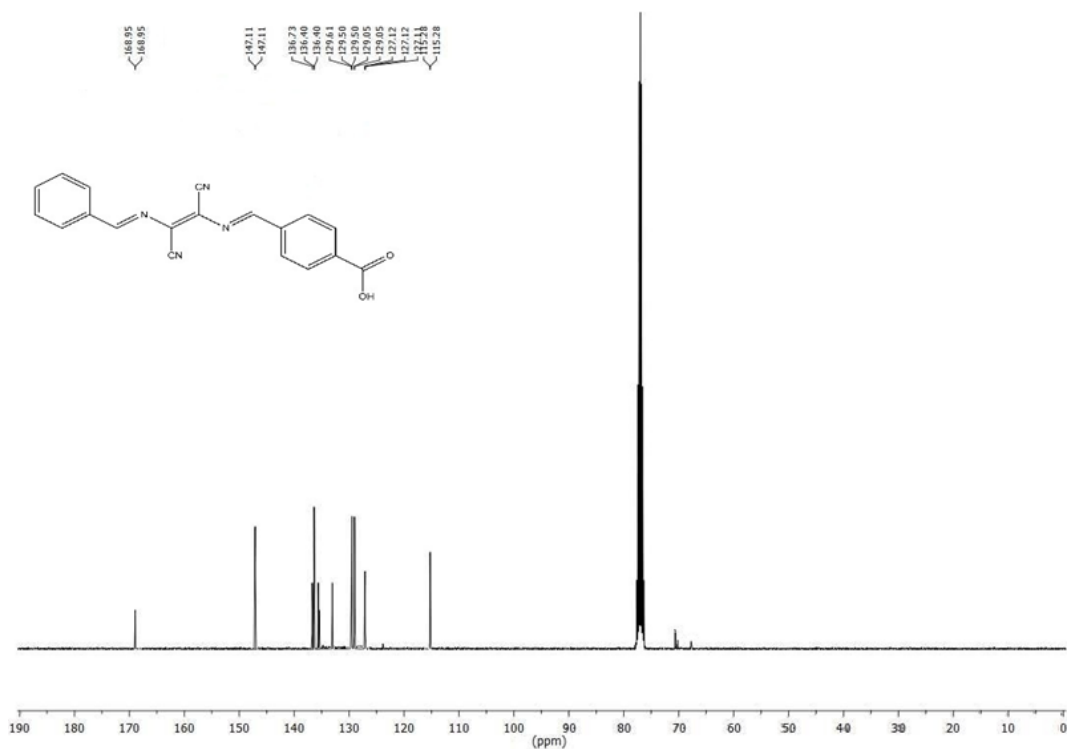
**Fig S2.** (a) <sup>1</sup>H-NMR spectrum of 4-((E)-(((E)-2-((E)-benzylideneamino)-1,2-dicyanovinyl)imino)methyl) benzoic acid (SA1)



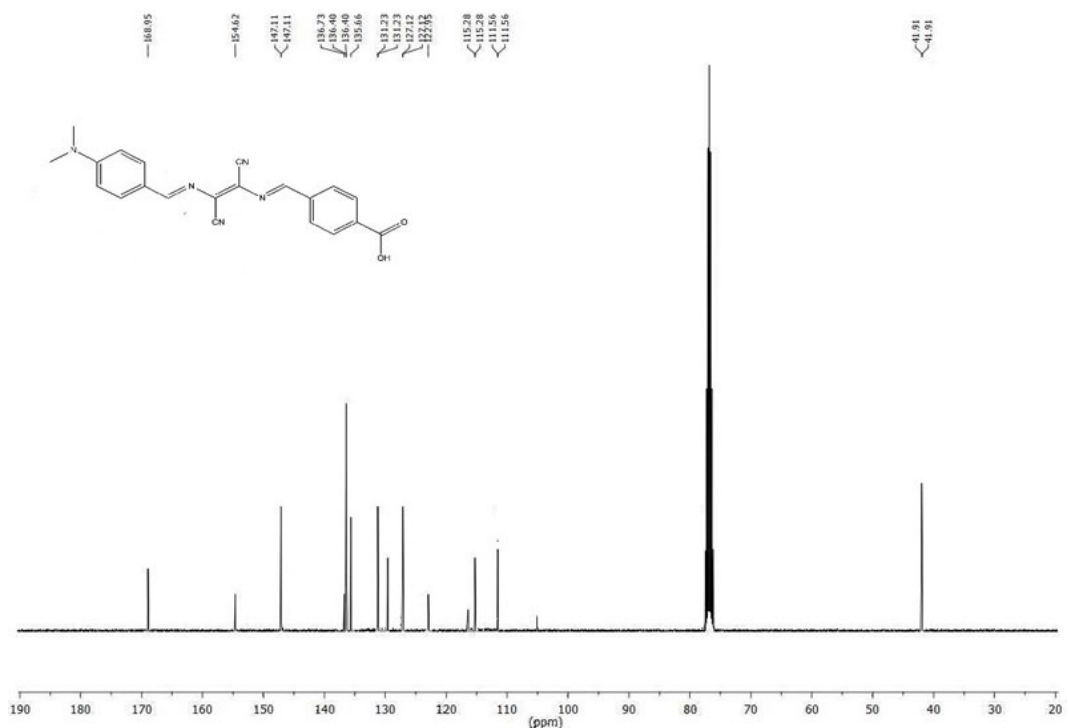
**Fig S2.** (b) <sup>1</sup>H-NMR spectrum of 4-((E)-(((E)-1,2-dicyano-2-((E)-(4-(dimethylamino)benzylidene)amino)vinyl)imino)methyl) benzoic acid (SA2)



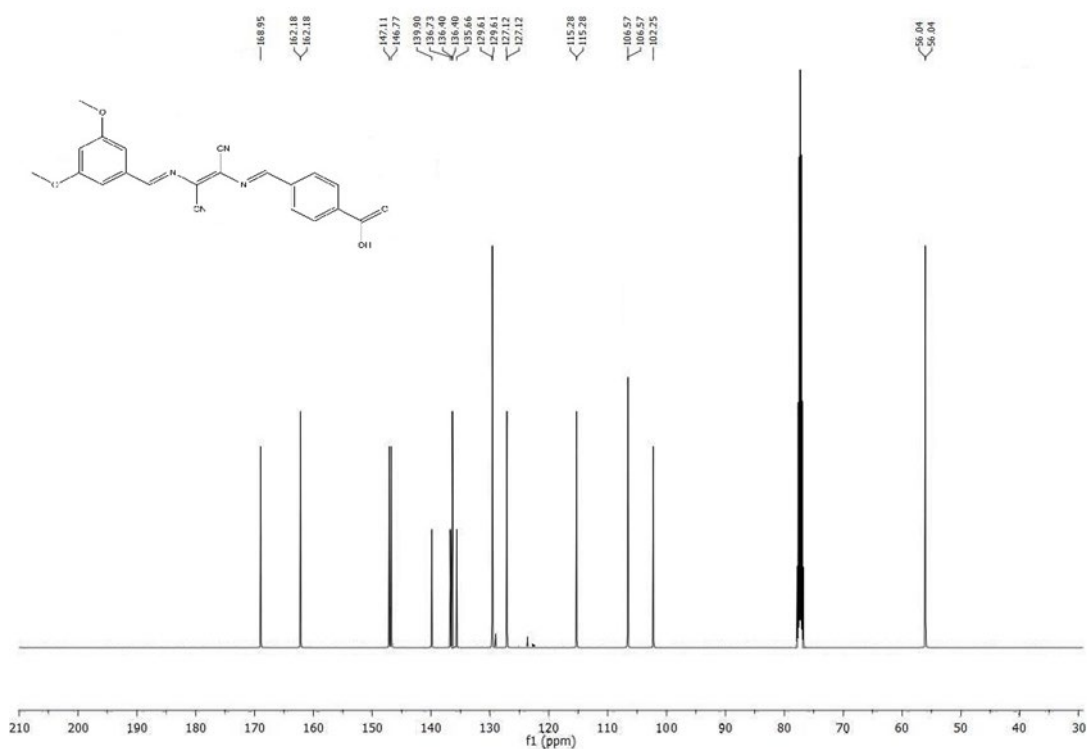
**Fig S2.** (c) <sup>1</sup>H-NMR spectrum of 4-((E)-(((E)-1,2-dicyano-2-((E)-(3,5-dimethoxybenzylidene) amino) vinyl)imino) methyl) benzoic acid (SA3)



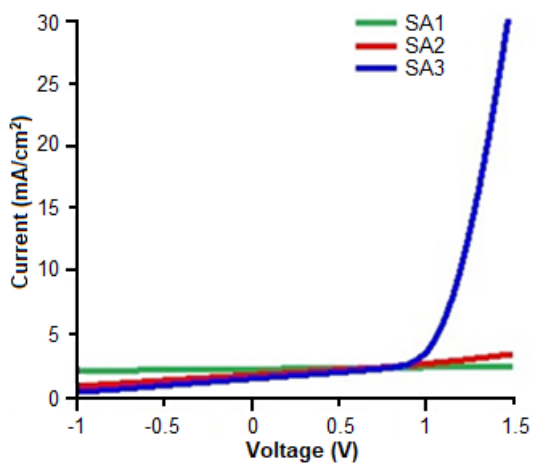
**Fig S3.** (a) <sup>13</sup>C-NMR spectrum of 4-((E)-(((E)-2-((E)-benzylideneamino)-1,2-dicyanovinyl)imino)methyl) benzoic acid (SA1)



**Fig S3.** (b) <sup>13</sup>C-NMR spectrum of 4-((E)-(((E)-1,2-dicyano-2-((E)-(4-(dimethylamino)benzylidene)amino)vinyl)imino)methyl) benzoic acid (SA2)



**Fig S3.** (c) <sup>13</sup>C-NMR spectrum of 4-((E)-(((E)-1,2-dicyano-2-((E)-(3,5-dimethoxybenzylidene)amino)vinyl)imino) methyl) benzoic acid (SA3)



**Fig S4.** I-V curve for SA1, SA2 and SA3