

Increased Open Circuit Voltage in Fluorinated Quinoxaline- based Alternating Conjugated Polymer

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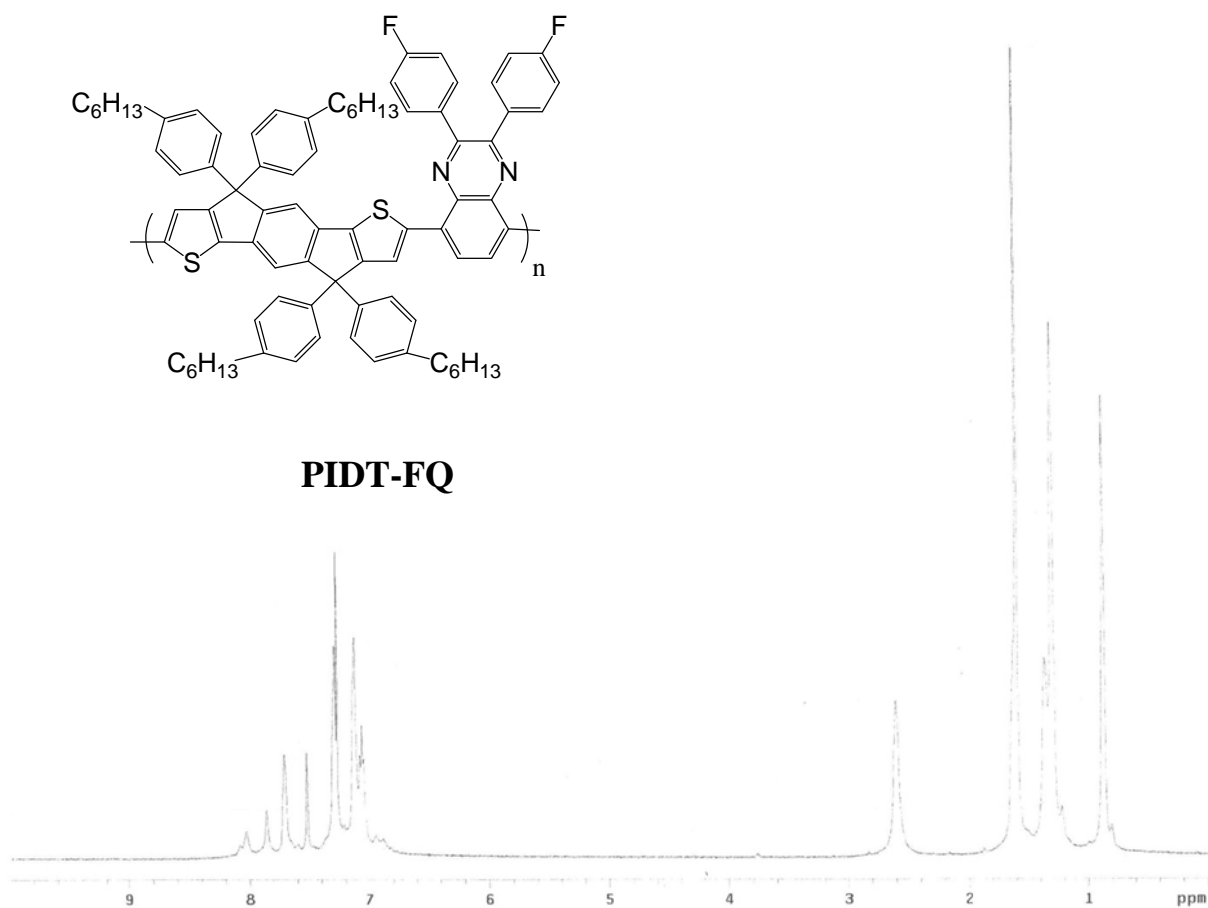


Figure S1. ¹H-NMR spectrum of **PIDT-FQ**

Table S1. OPV parameters of devices based on PIDT-FQ polymer

Condition	J_{sc} (mA/cm ²)	V_{oc} (V)	FF (%)	PCE (%)
<i>TT only</i>	8.9	0.89	53.4	4.2
<i>Thermal Annealing</i>	8.9	0.89	53.6	4.2
<i>Mixture solvent CB/DCB (1/1)</i>	8.9	0.86	46.1	3.5
<i>CB/DCB (1/1) +SA</i>	8.7	0.86	46.8	3.5
<i>Additive(1.25% OT)</i>	6.9	0.88	51.4	3.1
<i>Additive(1.25% OT)+SA</i>	8.7	0.88	50.6	3.9
<i>Additive(1 % CN)</i>	9.22	0.85	48.8	3.8
<i>Additive(1 % CN)+SA</i>	9.31	0.87	52.9	4.3

All devices were made using thermal treatment (**TT**) process. 1,8-octanedithiol: OT, chloro-naphthalene: CN