

## Supplementary Information

**Table 1. Observed Resistance Values**

	<u>Run 1</u>	<u>Run 2</u>	<u>Run 3</u>
	Raw HiPCO	Purified HiPCO	Purified HiPCO
Device Yield	4/16	7/30	29/98
SC Devices	2	1	7
Resistances (M $\Omega$ )	700, 2000	140	1.4, 10, 10, 10, 20, 250, 1400
M/H Devices	2	6	22
Resistances (M $\Omega$ )	570, 1300	0.5, 0.5, 4, 8, 10, 2000	Median = 1 Mean = 0.5

Run 1 and Run2 use material from the same batch of HiPCO.

Measured resistance values (M $\Omega$ ) for Run 3, M/H devices are: 0.1, 0.13, 0.15 (x2), 0.17 (x3), 0.25 (x2), 0.3, 0.5 (x2), 0.55, 0.6, 1, 1.4, 2, 3 (x2), 5.