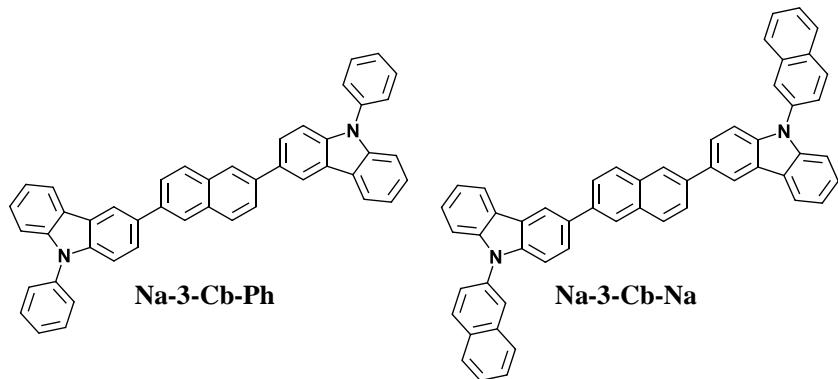


**Supporting Information**

**Directional growth of nanotube on micelles by soft-template  
electropolymerization with various hydrophobicity and strong water  
adhesion**

Diawo Diallo,<sup>a</sup> Abdoulaye Dramé,<sup>a</sup> Alioune Diouf,<sup>a</sup> Aboubacary Sene,<sup>a</sup> Frédéric Guittard,<sup>b</sup> & Thierry Darmanin<sup>b,\*</sup>

## Other studied monomers



**2,6-Bis(9-phenyl-9*H*-carbazol-3-yl)naphthalene (Na-3-Cb-Ph).** Yield 15%; Oil;  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )  $\delta_{\text{H}}$ : 8.48 (d,  $J$  = 1.4 Hz, 3H), 8.26 (d,  $J$  = 7.7 Hz, 3H), 7.79 (dd,  $J$  = 8.5, 1.8 Hz, 3H), 7.65 (m, 12H), 7.50 (m, 13H), 7.33 (m, 3H);  $^{13}\text{C}$  NMR (101 MHz,  $\text{CDCl}_3$ )  $\delta_{\text{C}}$ : 141.36, 140.04, 137.79, 134.36, 130.01, 127.43, 127.08, 126.04, 125.83, 123.97, 123.57, 120.41, 119.97, 118.88, 109.94.

**2,6-Bis(9-(naphthalen-2-yl)-9*H*-carbazol-3-yl)naphthalene(Na-3-Cb-Na).** Yield 8%; Oil;  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ )  $\delta_{\text{H}}$ : 8.39 (d,  $J$  = 1.6 Hz, 2H), 8.22 (d,  $J$  = 7.7 Hz, 2H), 8.09 (d,  $J$  = 9.1 Hz, 4H), 7.99 (dd,  $J$  = 6.1 Hz, 3.4 Hz, 2H), 7.93 (dd,  $J$  = 6.1 Hz, 3.4 Hz, 2H), 7.74 (dd,  $J$  = 8.2, 1.0 Hz, 4H), 7.69 (m, 4H), 7.60 (dd,  $J$  = 6.2, 3.3 Hz, 4H), 7.50 (dd,  $J$  = 15.7, 8.2 Hz, 8H), 7.40 (m, 2H), 7.35 (dd,  $J$  = 16.1, 7.2 Hz, 4H).  $^{13}\text{C}$  NMR (101 MHz,  $\text{CDCl}_3$ )  $\delta_{\text{C}}$ : 141.99, 141.52, 140.54, 135.12, 134.02, 133.61, 132.44, 129.91, 129.28 – 129.08, 128.78, 127.91, 127.34, 126.89, 126.55, 126.19, 125.55, 125.26, 124.29, 123.98, 123.58, 120.41, 120.18, 118.87, 110.00.

## NMR spectra

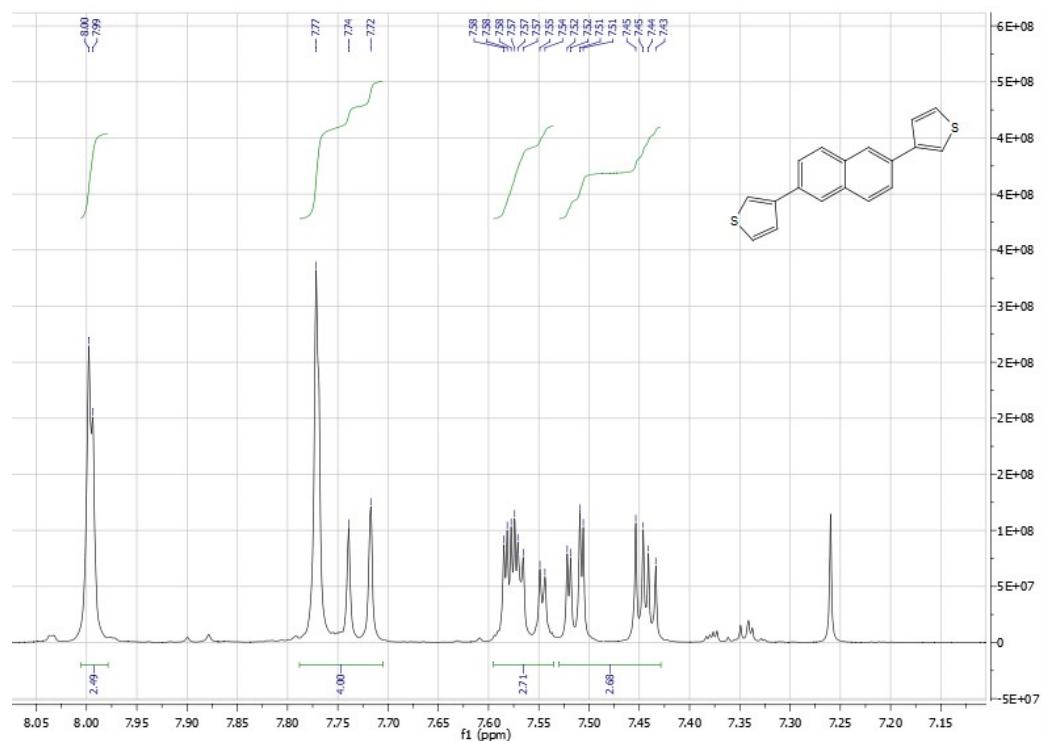


Figure S1.  $^1\text{H}$  NMR of Na-3-Th.

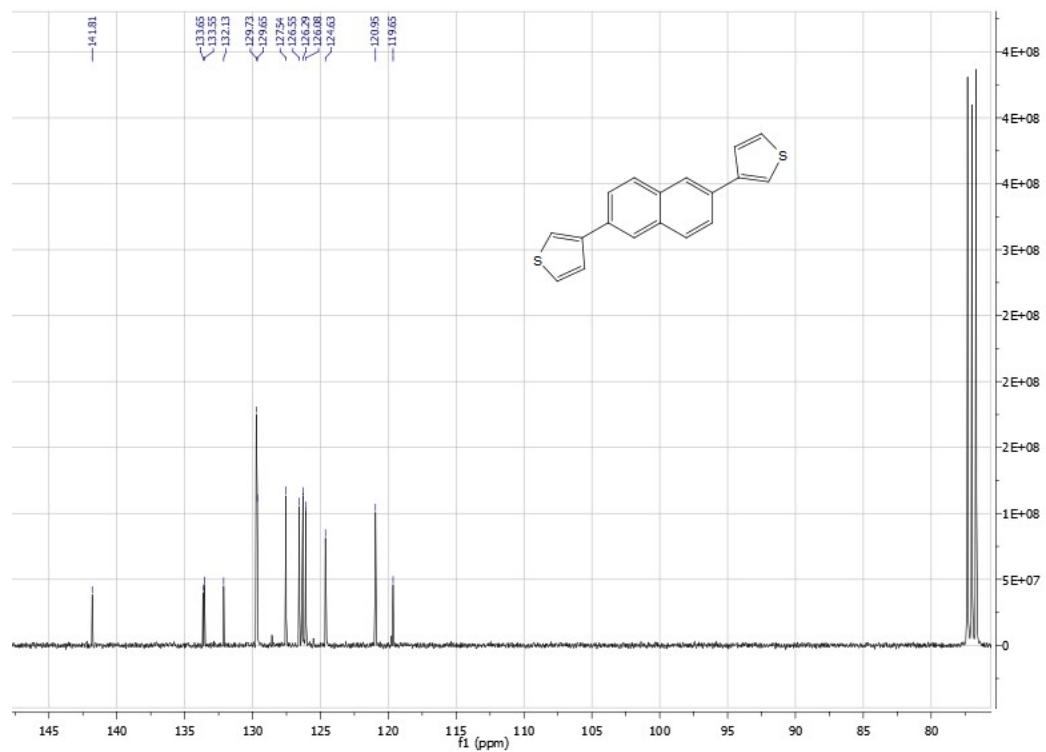
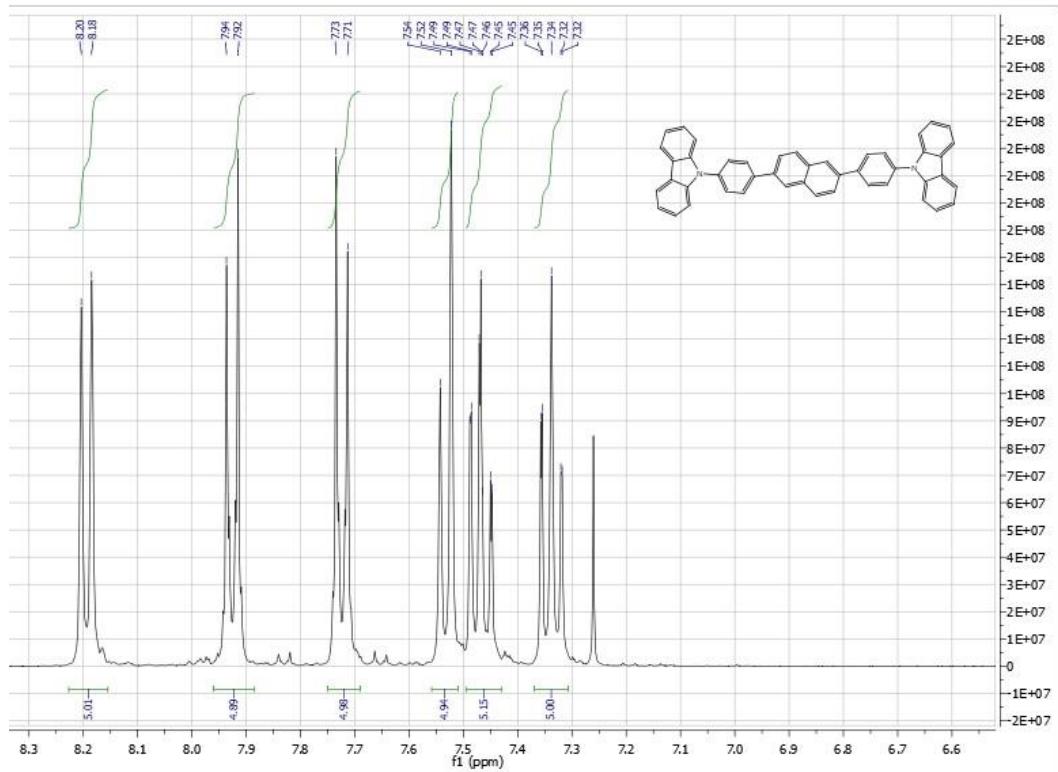
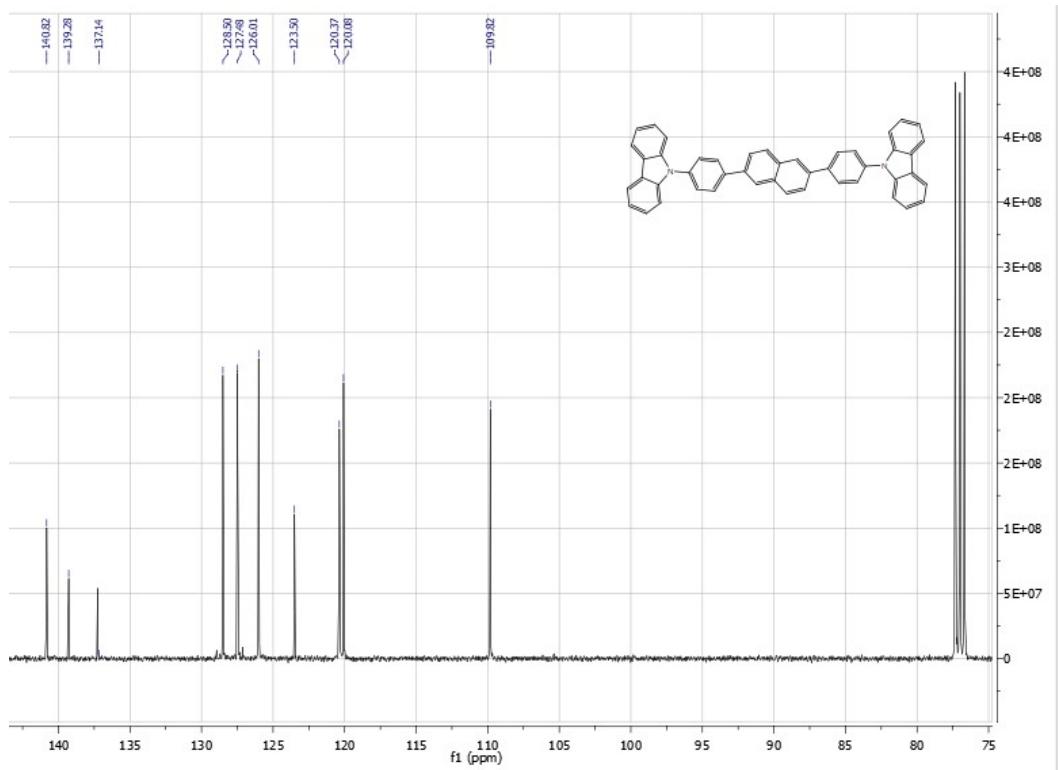


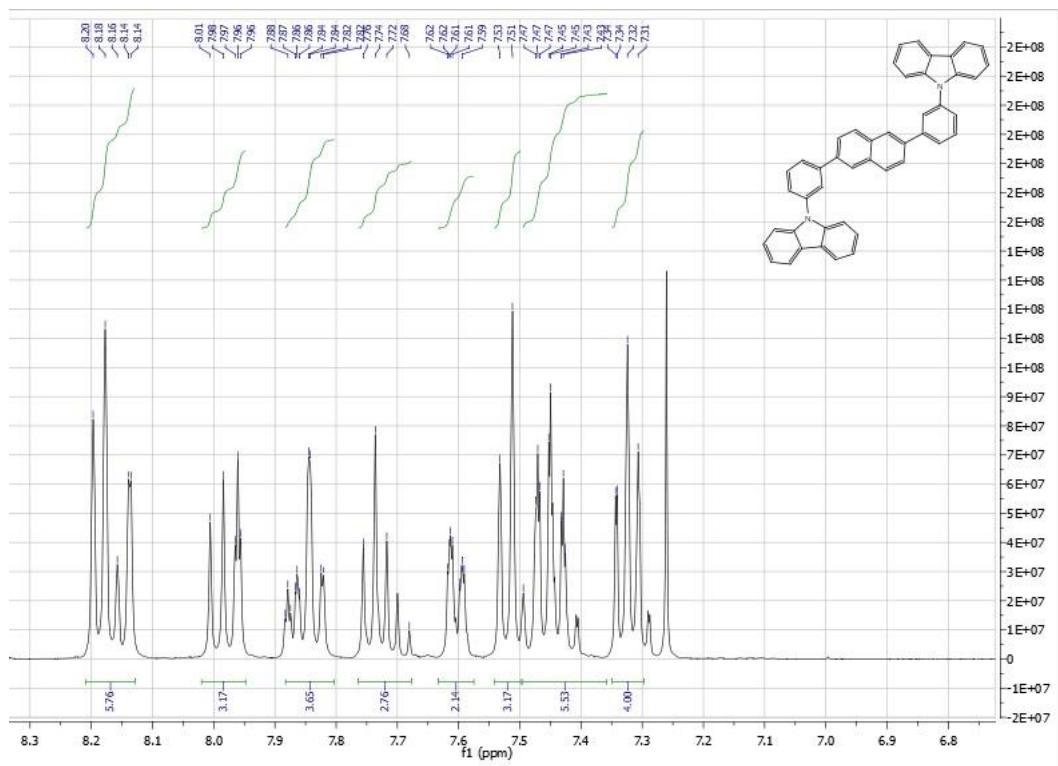
Figure S2.  $^{13}\text{C}$  NMR of Na-3-Th.



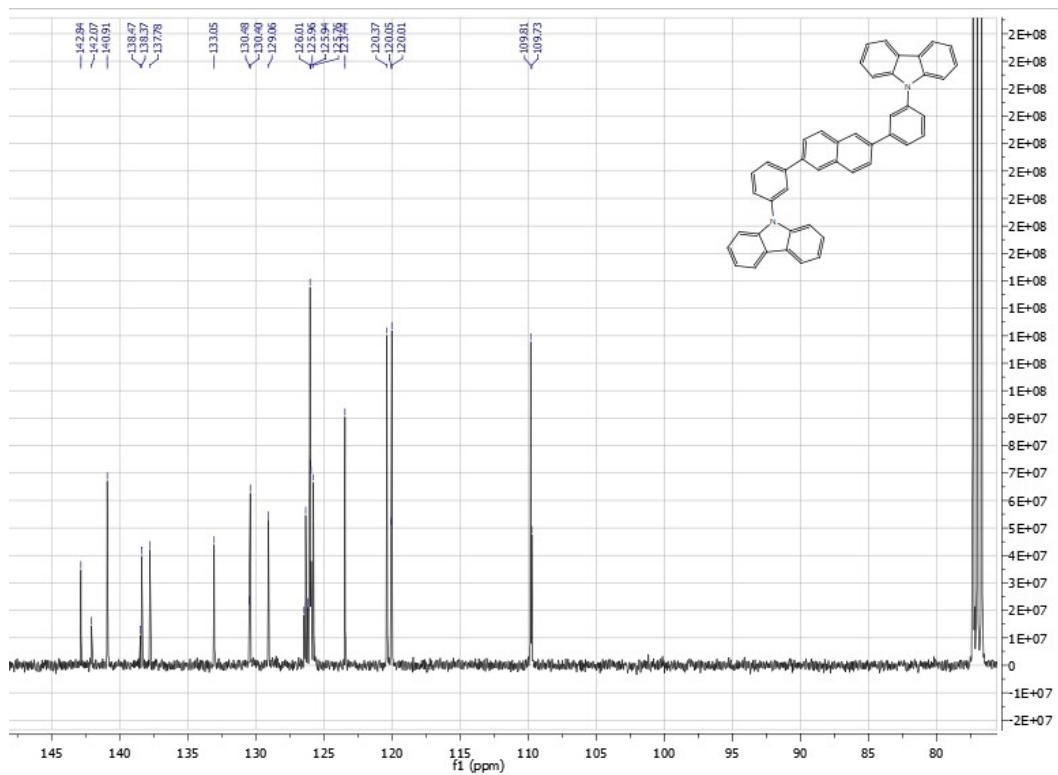
**Figure S3.**  $^1\text{H}$  NMR of Na-p-Cb.



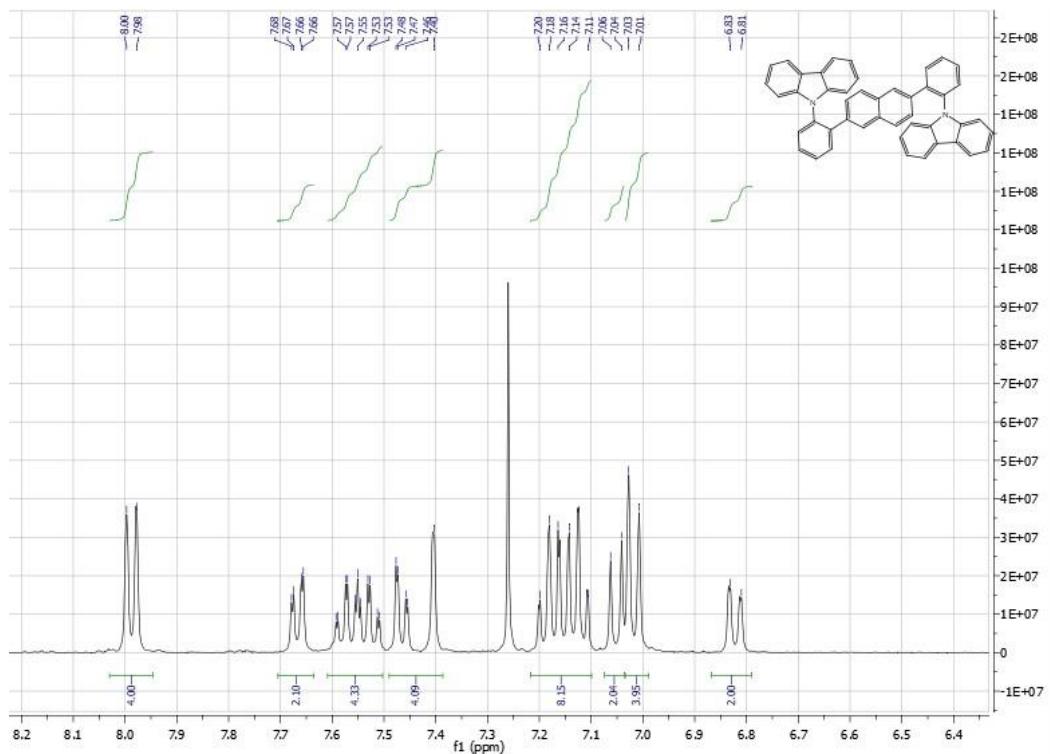
**Figure S4.**  $^{13}\text{C}$  NMR of Na-p-Cb.



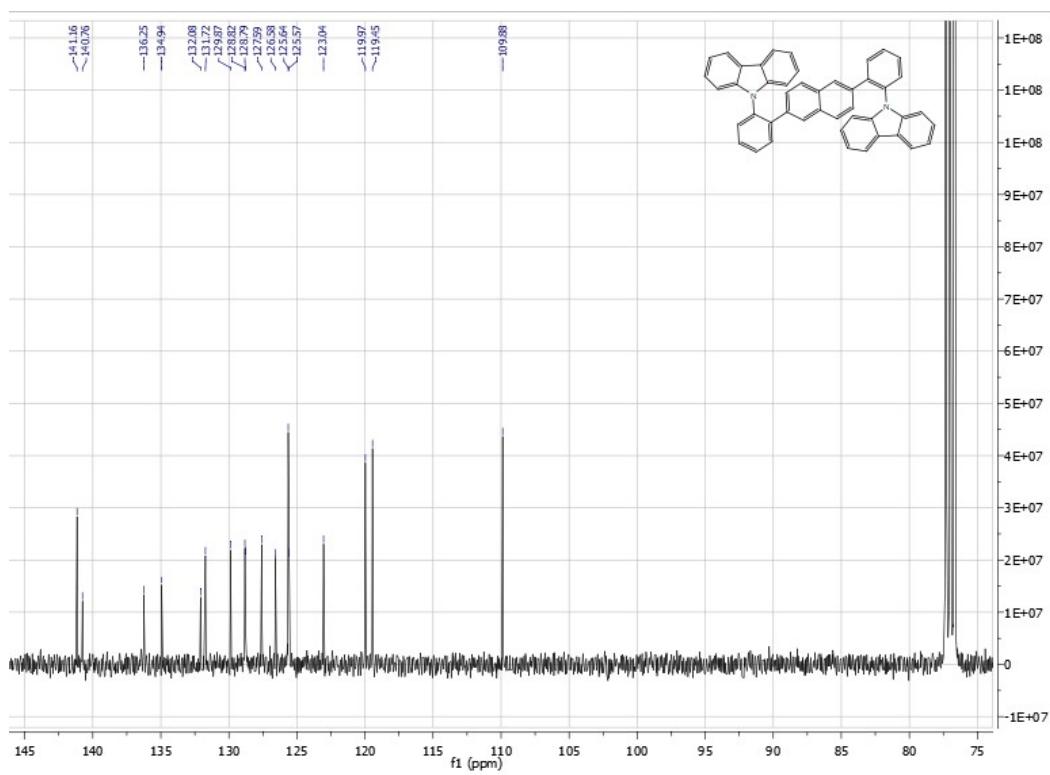
**Figure S5.**  $^1\text{H}$  NMR of Na-m-Cb.



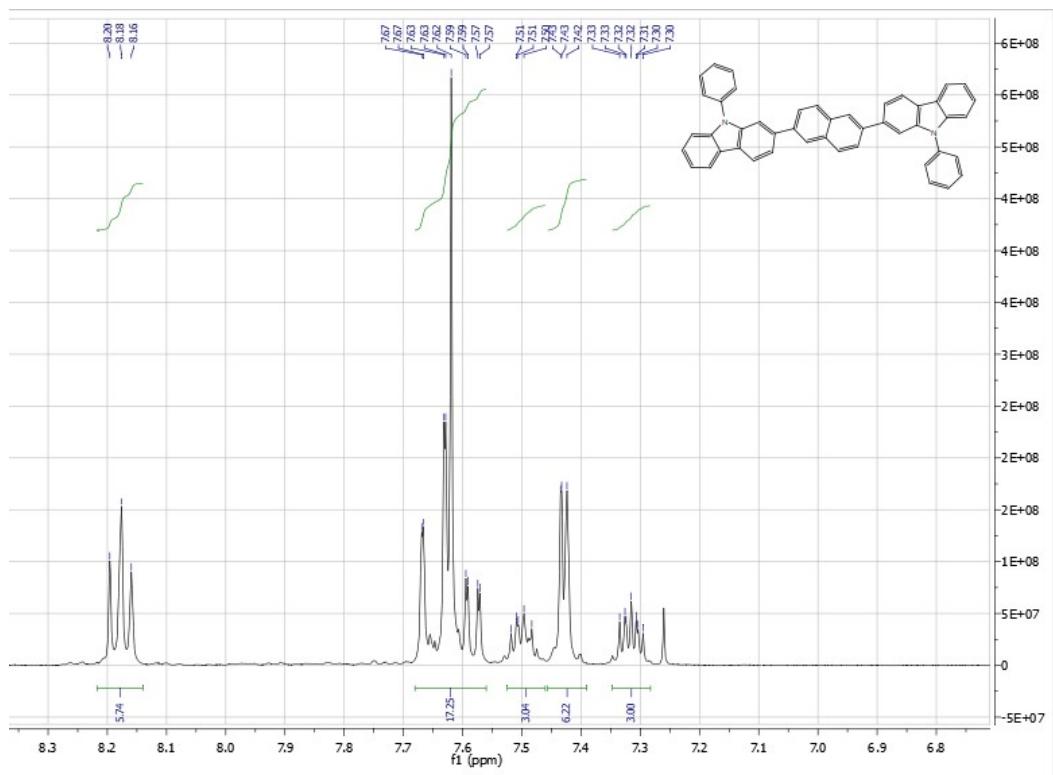
**Figure S6.**  $^{13}\text{C}$  NMR of Na-m-Cb.



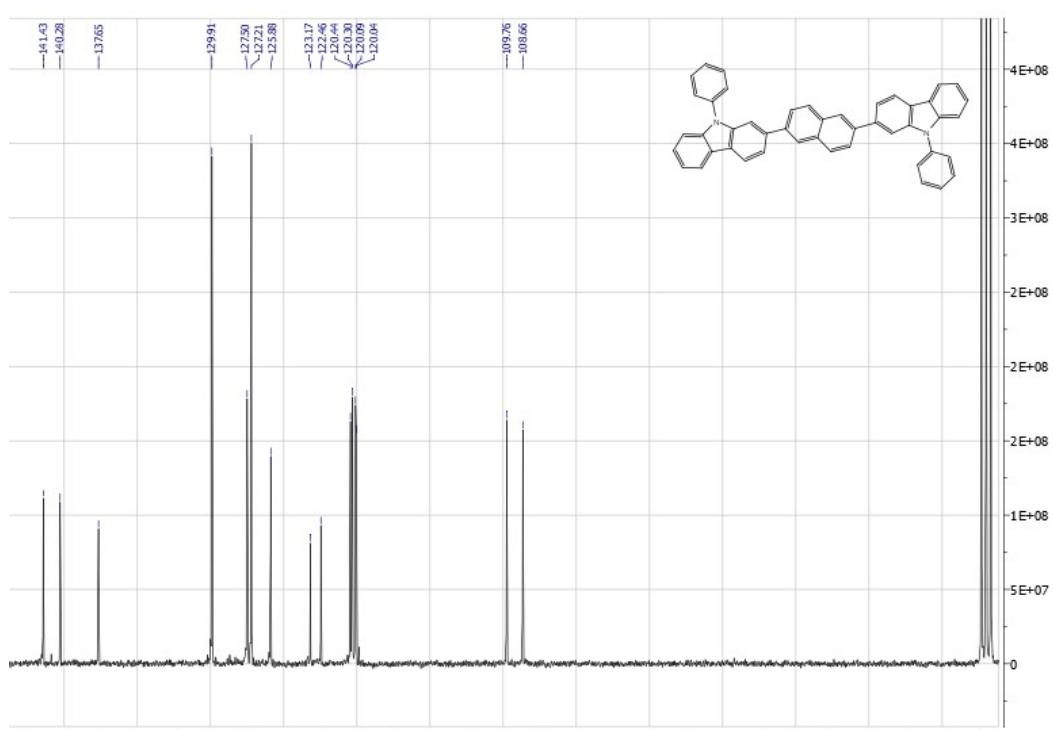
**Figure S7.**  $^1\text{H}$  NMR of Na-o-Cb.



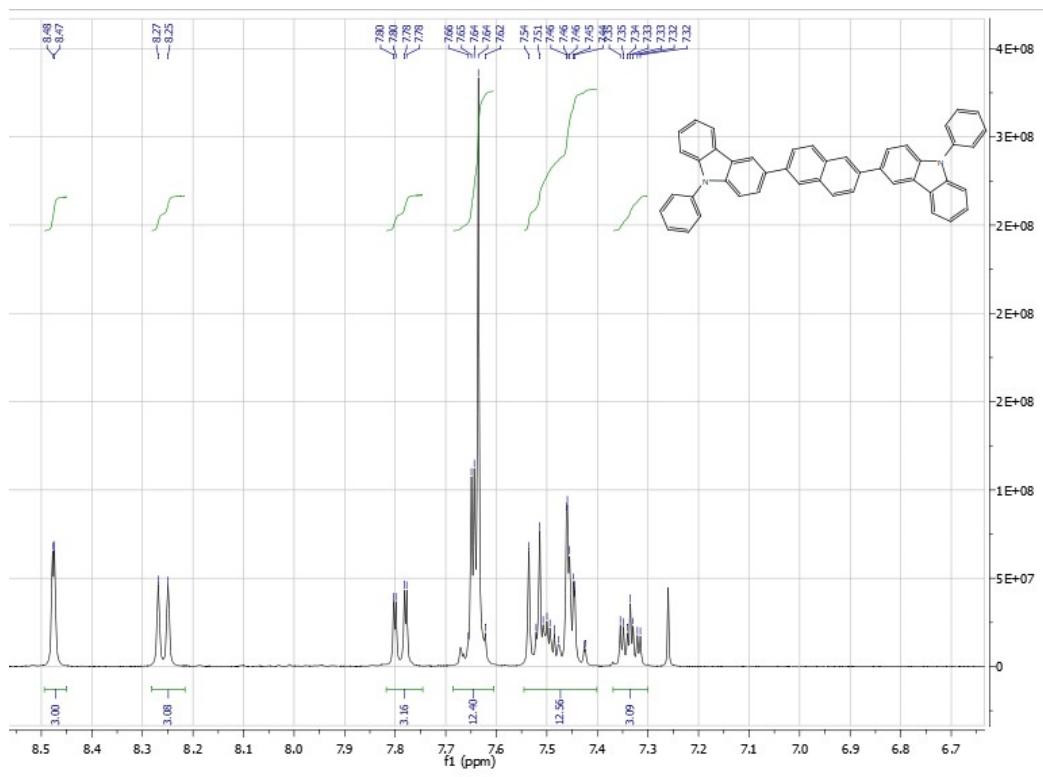
**Figure S8.**  $^{13}\text{C}$  NMR of Na-o-Cb.



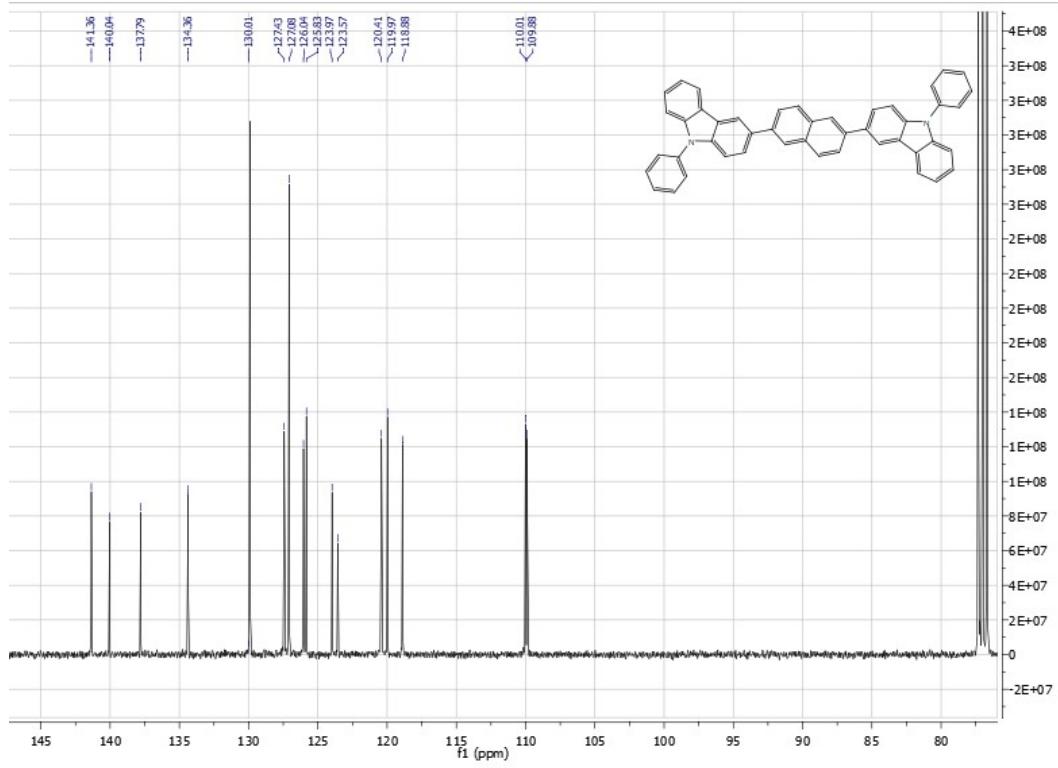
**Figure S9.**  $^1\text{H}$  NMR of Na-2-Cb-Ph.



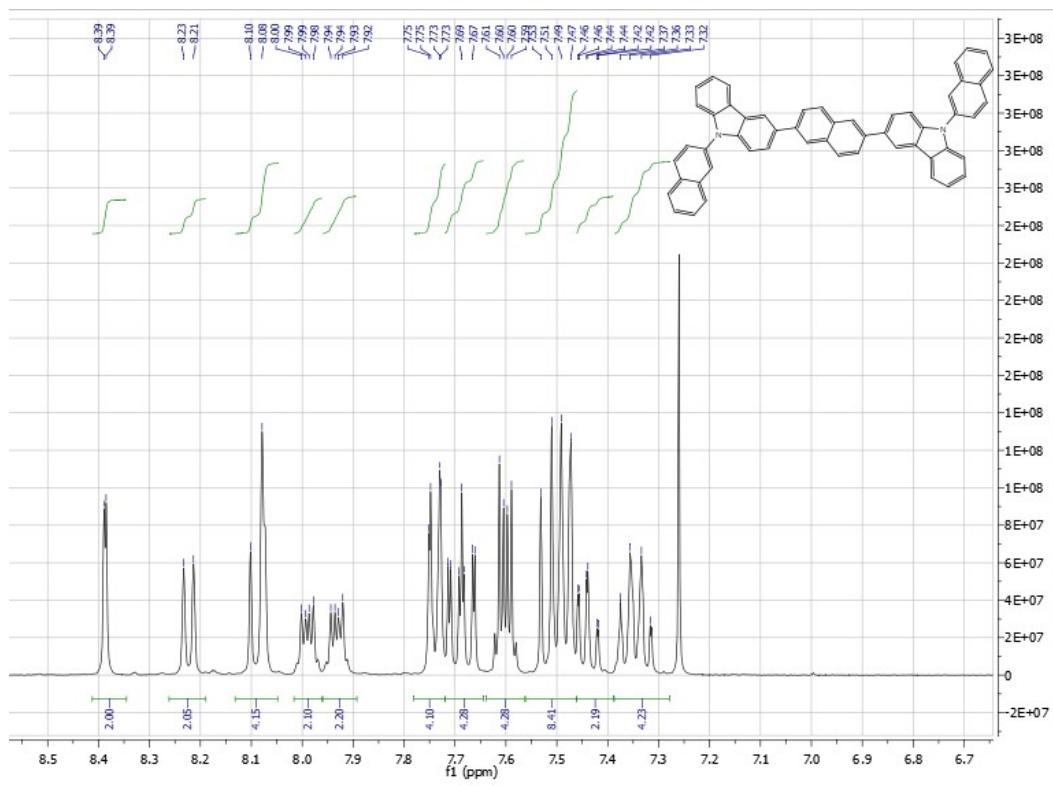
**Figure S10.**  $^{13}\text{C}$  NMR of Na-2-Cb-Ph.



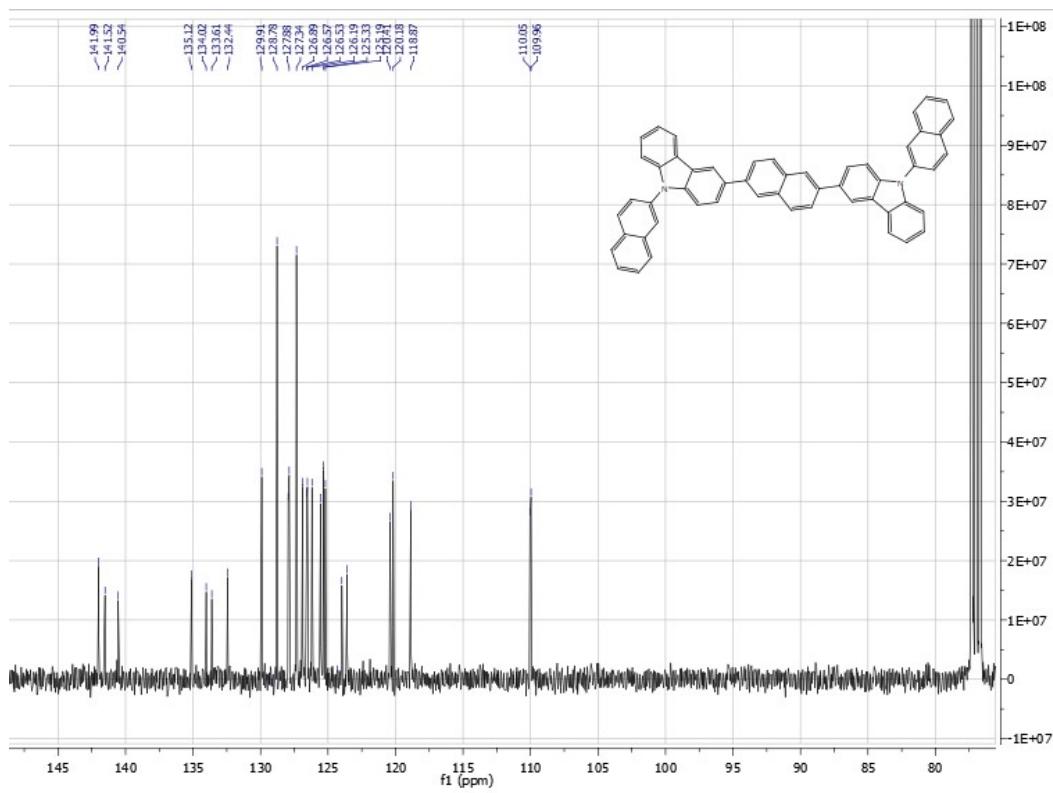
**Figure S11.**  $^1\text{H}$  NMR of Na-3-Cb-Ph.



**Figure S12.**  $^{13}\text{C}$  NMR of Na-3-Cb-Ph.



**Figure S13.**  $^1\text{H}$  NMR of Na-3-Cb-Na.



**Figure S14.**  $^{13}\text{C}$  NMR of Na-3-Cb-Na.