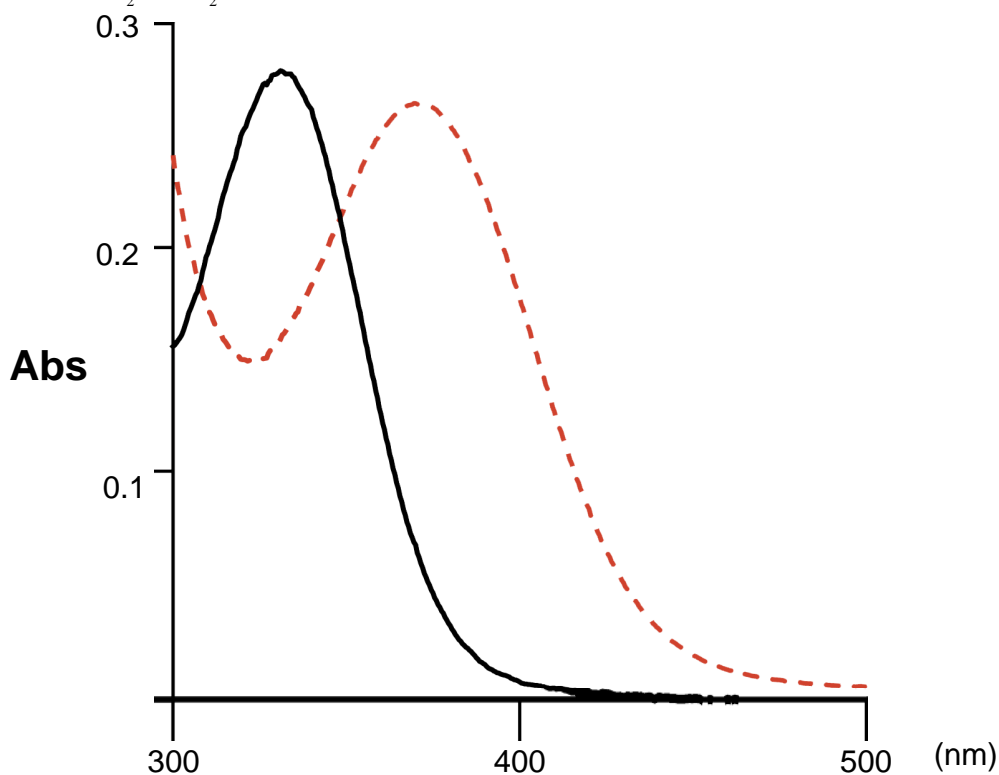


## Compound 1

$^1\text{H-NMR}$  (300 MHz,  $\text{CDCl}_3$ ): 9.23 (bs, 2H), 9.09 (bs, 2H), 8.86 (bs, 2H), 8.81 (bs, 4H), 8.77 (bs, 4H), 8.50 (d, 2H,  $J=8.0$  Hz), 8.47 (d, 2H,  $J=8.0$  Hz), 8.22 (d, 2H,  $J=8.0$  Hz), 7.97 (dd, 2H,  $J=8.0, 1.8$  Hz), 7.46 (s, 4H), 7.19 (t, 1H,  $J=7.5$  Hz), 7.02 (bs, 4H), 7.00 (bs, 4H), 6.85 (bs, 2H), 6.56 (d,  $J=7.5$  Hz), 6.54 (s, 1H), 4.18 (bs, 4H), 3.92 (m, 4H), 3.60-4.10 (m, 20H), 2.24 (s, 24H).

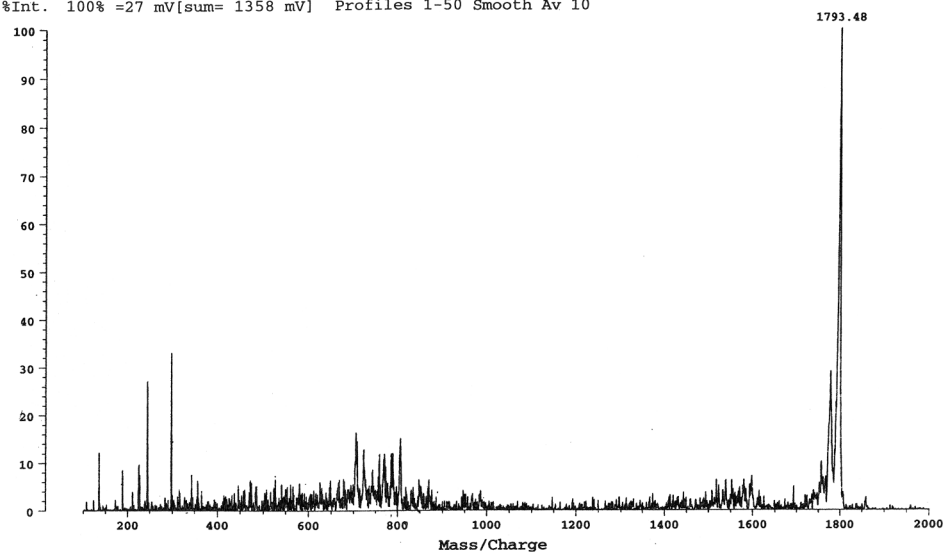
$^{13}\text{C-NMR}$  (75 MHz,  $\text{CDCl}_3$ ): 165.8, 159.7, 158.4, 153.2, 150.9, 147.81, 147.78, 147.6, 136.8, 135.9, 134.9, 130.9, 130.6, 130.6, 130.3, 129.9, 129.7, 129.6, 129.6, 129.3, 127.82, 127.79, 126.7, 126.5, 126.3, 125.9, 121.5, 120.5, 107.4, 101.7, 66.7, 39.6, 31.5, 31.3, 29.7, 20.43, 20.41.

UV-vis spectra of **1** (solid line) and  $[\mathbf{1}\cdot\text{Cu}^+]\text{PF}_6^-$  (dash) at the concentration of  $1.0 \times 10^{-5}$  mol/L in  $\text{CHCl}_2\text{CHCl}_2$ .



MALDI-TOF MASS spectrum of complex  $[\mathbf{1}\cdot\text{Cu}^+]$

Data: 16Cu0001.1 25-Jan-10 13:39 Cal: T13-Dith-2 9 Nov 10 19:55  
 Kratos Compact MALDI 2 V5.2.2: + Linear High Power: 5, P.Ext @ 1794 (bin 157)  
 %Int. 100% =27 mV[sum= 1358 mV] Profiles 1-50 Smooth Av 10



Titration data for C<sub>60</sub> and C<sub>70</sub>

C<sub>60</sub> and **9**

[C<sub>60</sub>]: 4.80X10<sup>-5</sup> mol/L

λ<sub>obs</sub>: 430 nm

ABS <sub>obs</sub>	[ <b>9</b> ]
0.0819	6.25X10 <sup>-4</sup>
0.1543	1.25X10 <sup>-3</sup>
0.2195	1.88X10 <sup>-3</sup>
0.2791	2.50X10 <sup>-3</sup>
0.3348	3.13X10 <sup>-3</sup>

C<sub>60</sub> and [**1•Cu<sup>+</sup>**]PF<sub>6</sub><sup>-</sup>

[C<sub>60</sub>]: 1.00X10<sup>-5</sup> mol/L

λ<sub>obs</sub>: 550 nm

ABS <sub>obs</sub>	[ <b>[1•Cu<sup>+</sup>]PF<sub>6</sub><sup>-</sup></b> ]
0.0057	7.75X10 <sup>-5</sup>
0.0090	1.55X10 <sup>-4</sup>
0.0111	2.33X10 <sup>-4</sup>
0.0139	3.10X10 <sup>-4</sup>
0.0154	3.88X10 <sup>-4</sup>

C<sub>70</sub> and **1**

[C<sub>70</sub>]: 1.00X10<sup>-5</sup> mol/L

λ<sub>obs</sub>: 550 nm

ABS <sub>obs</sub>	[ <b>1</b> ]
0.0035	1.00X10 <sup>-4</sup>
0.0069	2.00X10 <sup>-4</sup>
0.0100	3.00X10 <sup>-4</sup>
0.0130	4.00X10 <sup>-4</sup>
0.0159	5.00X10 <sup>-4</sup>

C<sub>70</sub> and [**1•Cu<sup>+</sup>**]PF<sub>6</sub><sup>-</sup>

[C<sub>70</sub>]: 1.00X10<sup>-5</sup> mol/L

λ<sub>obs</sub>: 500 nm

ABS <sub>obs</sub>	ABS <sub>host</sub>	ΔABS	[ <b>[1•Cu<sup>+</sup>]PF<sub>6</sub><sup>-</sup></b> ]
0.1236	0.1554	-0.0318	1.05X10 <sup>-4</sup>
0.2382	0.3108	-0.0726	2.10X10 <sup>-4</sup>
0.3402	0.4662	-0.1260	3.15X10 <sup>-4</sup>
0.4293	0.6216	-0.1923	4.20X10 <sup>-4</sup>
0.5109	0.7770	-0.2661	5.25X10 <sup>-4</sup>