# Supplementary Material

# Photochemical [2+2] cycloaddition reaction of enone derivatives with 2-siloxy-1*H*-pyrrole derivatives

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1. $^{1}H$, $^{13}C$ and HRMS spectra of **6**, **7** and **8**.

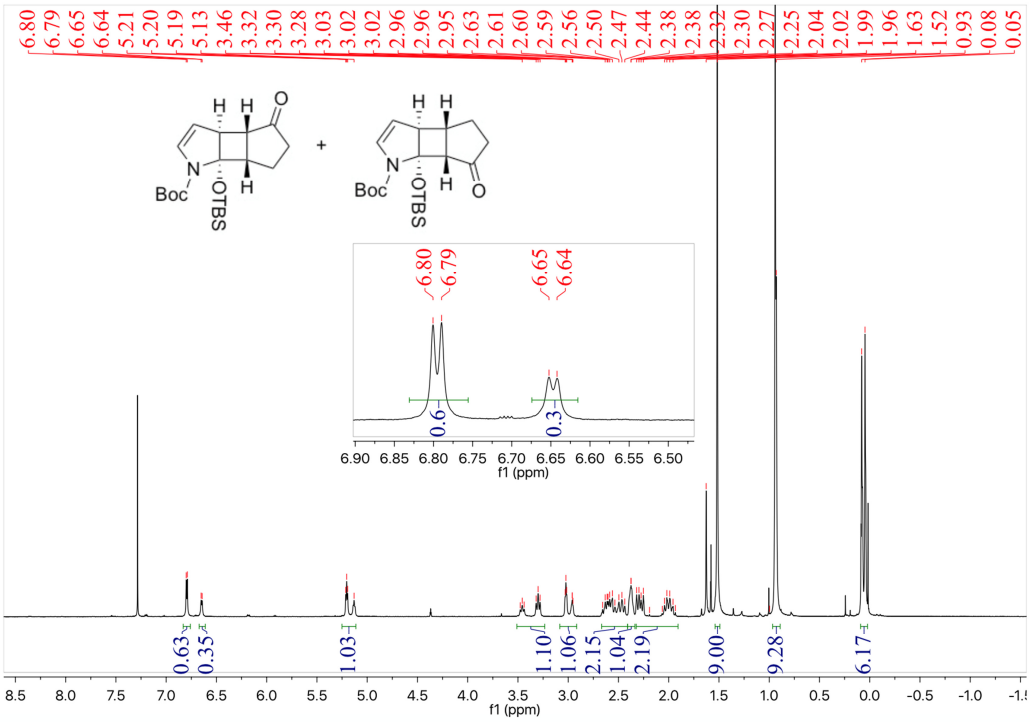



**Figure S1**. $^{1}H$ NMR spectrum of a mixture **6** and **7**. (400 MHz, $CDCl_3$)

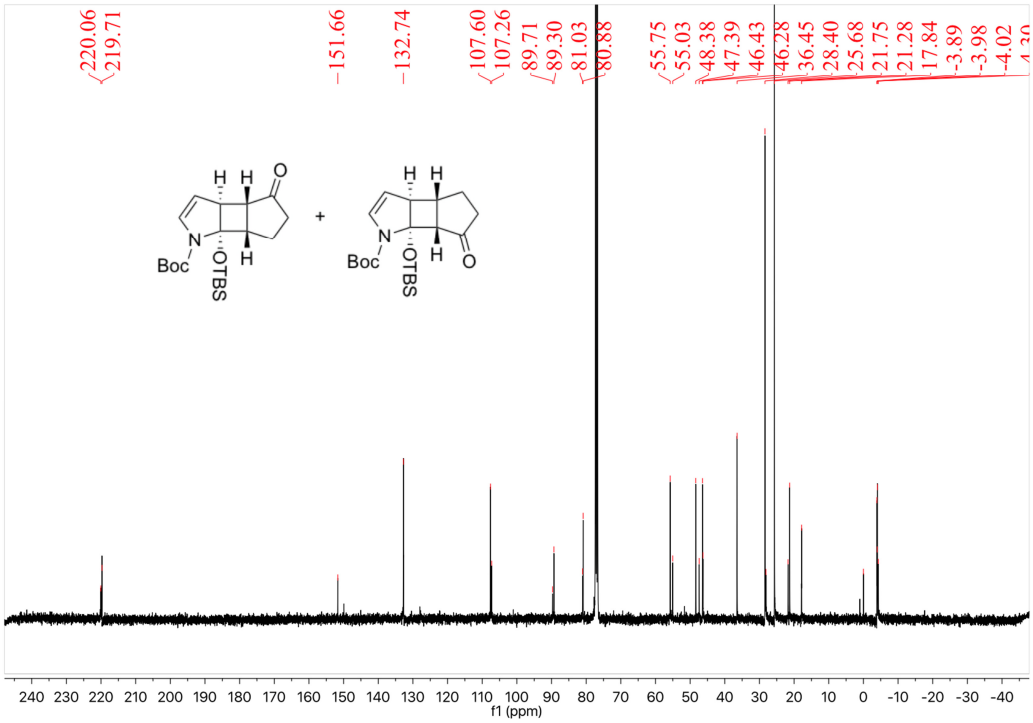



**Figure S2**. $^{13}C$ NMR spectrum of a mixture of **6** and **7**. (101 MHz, $CDCl_3$)

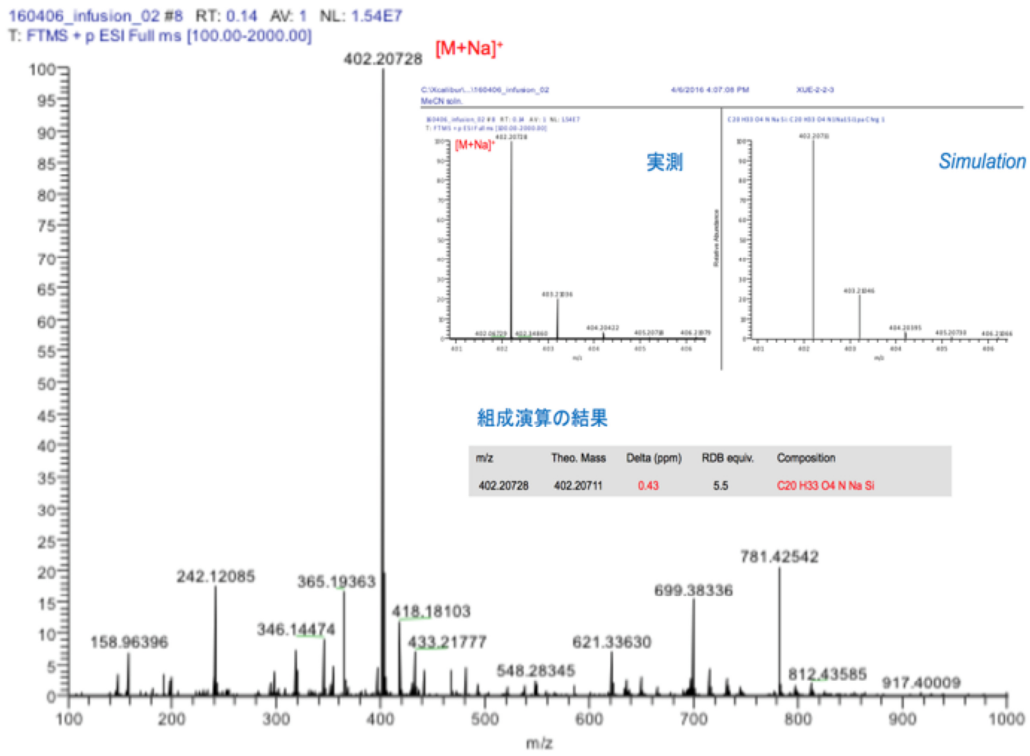



**Figure S3**. HRMS spectrum of a mixture of **6** and **7**.

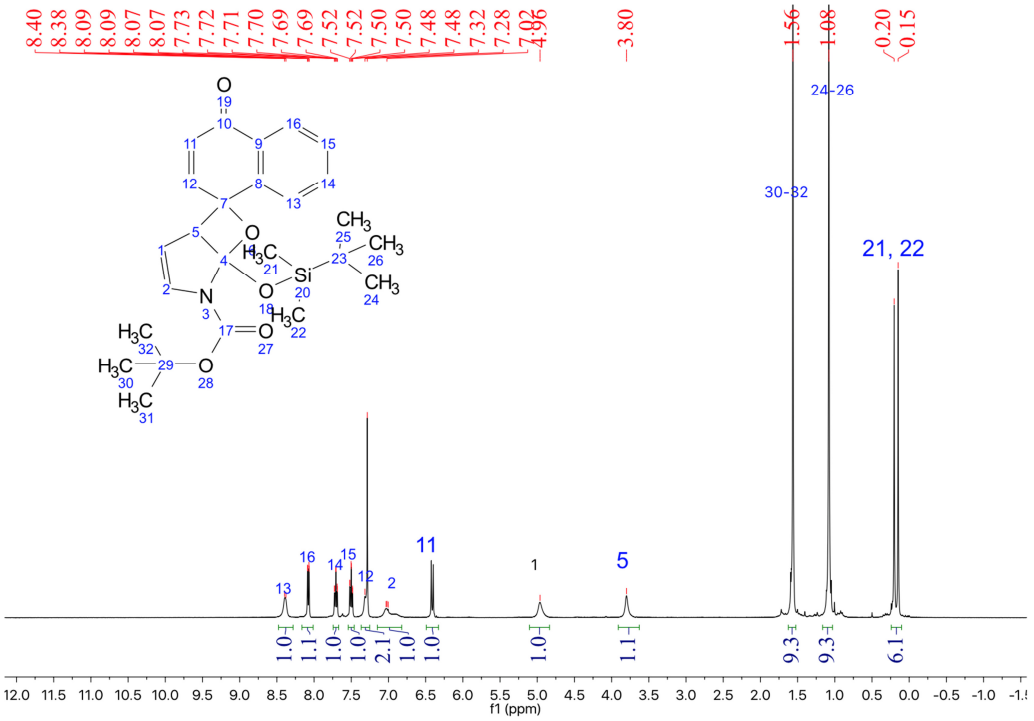



**Figure S4**. $^{1}$H NMR spectrum of **8**. (400 MHz, $CDCl_3$)

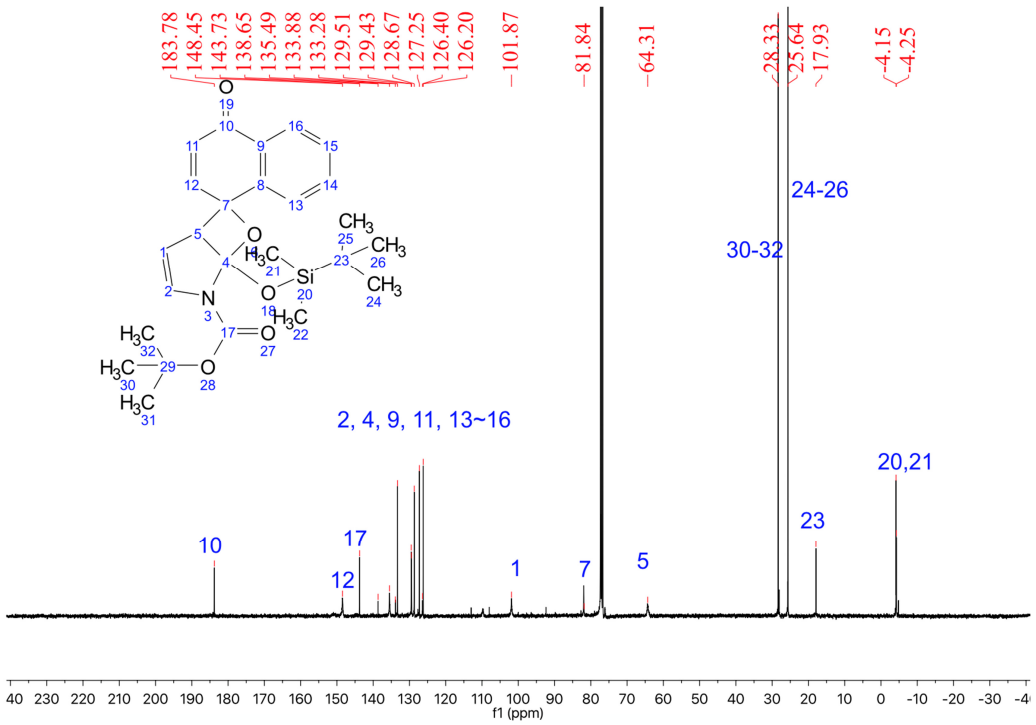
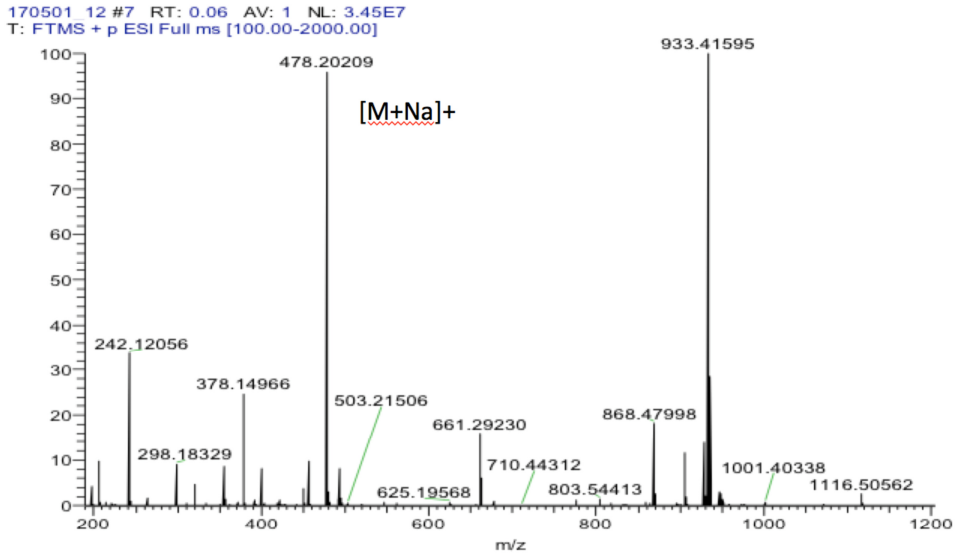



**Figure S5**. $^{13}C$ NMR spectrum of **8**. (101 MHz, $CDCl_3$)




| m/z | Theo. Mass | Delta (ppm) | RDB equiv. | Composition |
|---|---|---|---|---|
| 478.20209 | 478.20202 | 0.14 | 10.5 | C25 H33 O5 N Na Si |

**Figure S6**. HRMS spectrum of **8**.

2. UV spectra of **4** and **5**.

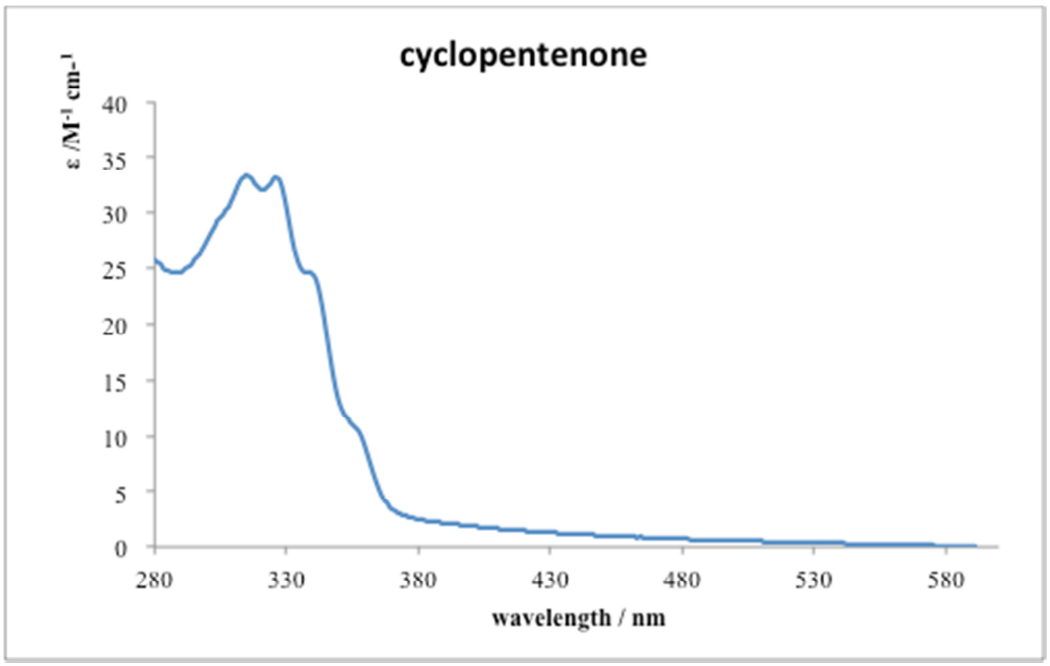



**Figure S7**. UV-Vis spectrum of **4**. (0.00678 M at benzene)

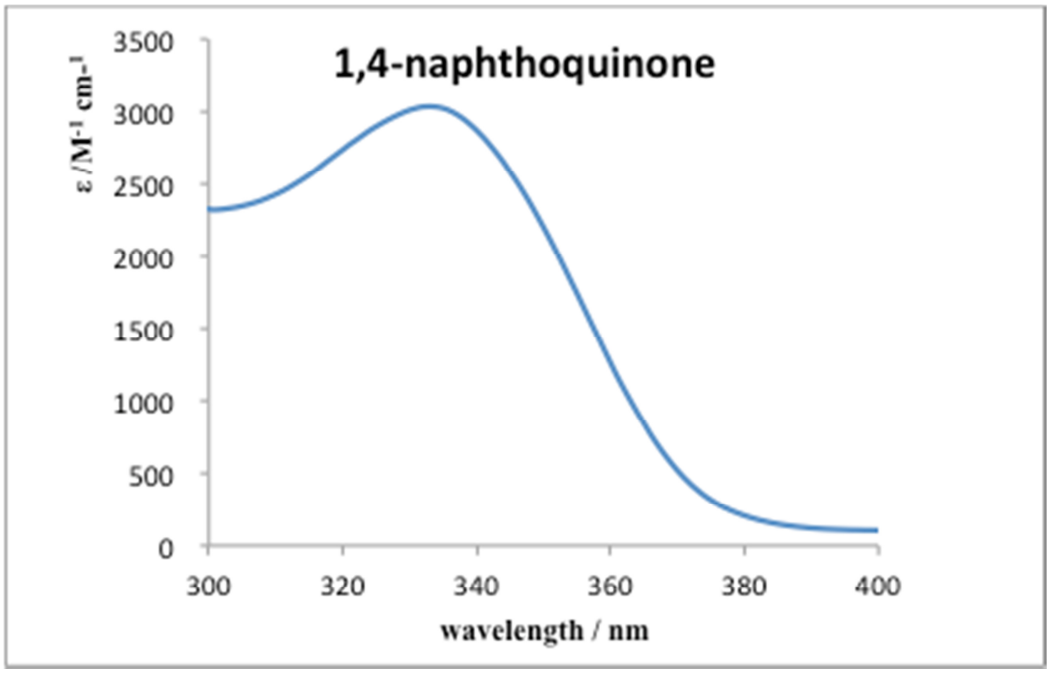



**Figure S8**. UV-Vis spectrum of **5**. (0.000285 M at benzene)