

Table S1. IR Band Positions for the Photoproducts from Complexes **1** – **3** in CH₂Cl₂

Complex	Photoproduct	IR bands (ν_{CO}), cm ⁻¹
1	W(CO) ₅ PPh ₃	2076, 1943, 1894
2	W(CO) ₄ (PPh ₃) ₂	2016, 1896, 1850
3	W(CO) ₅ PPh ₃	2076, 1943, 1894

Table S2. IR Band Positions for Complexes 1 – 4 and their Oxidized Forms in CH₃CN

Complex	IR bands (ν_{CO}), cm ⁻¹
1	2073, 1933, 1892
1 ⁺	2078, 1938, 1897
2	2012, 1890, 1844
2 ⁺	2027, 1899, 1851
3	2073, 1932, 1892
3 ⁺	2073, 1934, 1893
4	2035, 1932
4 ⁺	2036, 1933

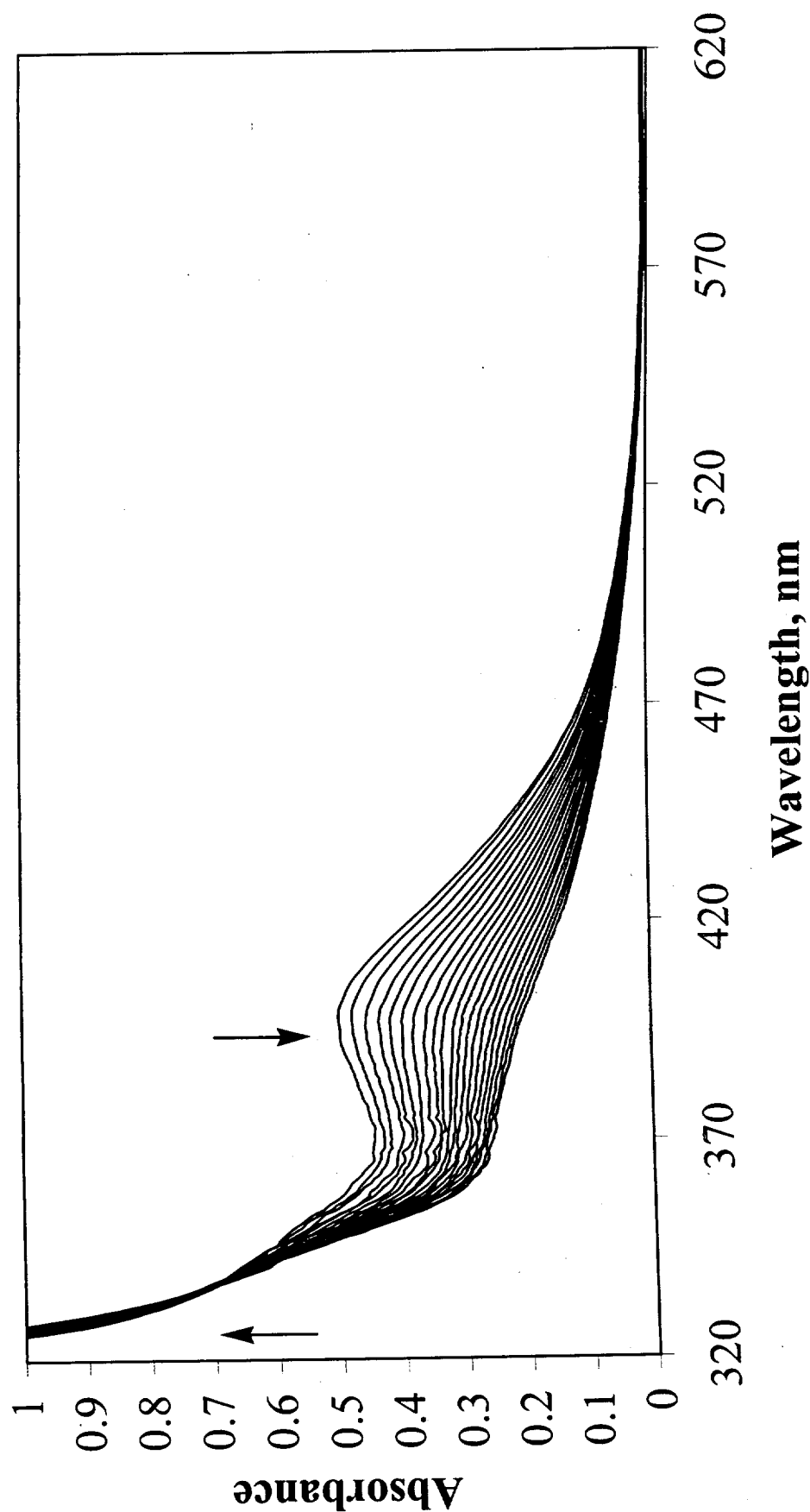


Figure S1. Electronic absorption spectral changes accompanying the 428-nm photolysis (3-min intervals) of complex **3** in deoxygenated CH_2Cl_2 containing 0.01 M PPh_3 at 293 K.