

**Table 2: Selected calculated and experimental electronic transitions of ETRP.**

Transition #	Calculated		MO <sub>i</sub> → MO <sub>f</sub>	Assignment
	#	λ / nm	λ / nm	
5	703.3	648	416 → 430	Q <sub>x</sub>
10	627.6	552	416 → 431	Q <sub>y</sub>
40	520.0	—	429 → 430	MLCT (Ru → P)
49	502.1	450	429 → 448	MLCT (Ru → Cl-Phen)
62	488.3	—	423 → 430	MLCT (Ru → P)
183	373.3	—	429 → 456	MLCT (Ru → Py)
215	345.2	419	399 → 431	Soret
229	338.1	295	425 → 457	MLCT (Ru → Cl-Phen)