Supplementary Material: Synthesis of 2-(4-chlorophenyl)-4-(3,4-dimethoxyphenyl)-6-methoxy-3-methylquinoline

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Spectra of tetrahydroquinoline precursor (4)

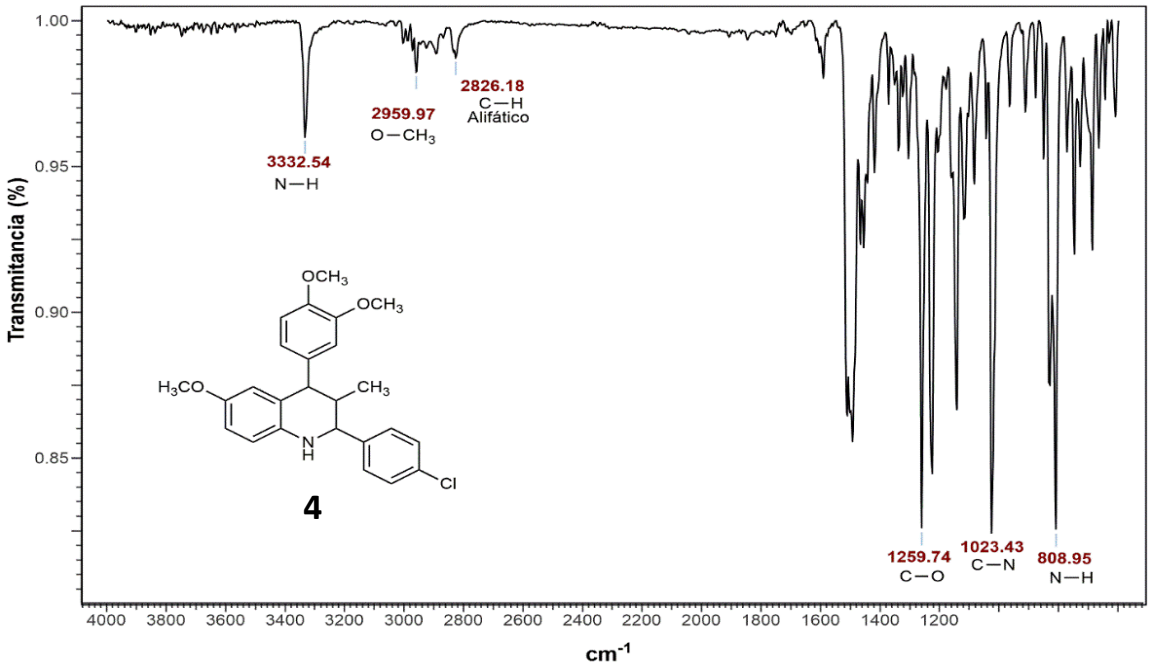

Figure S1. FT-IR spectrum of compound **4**.

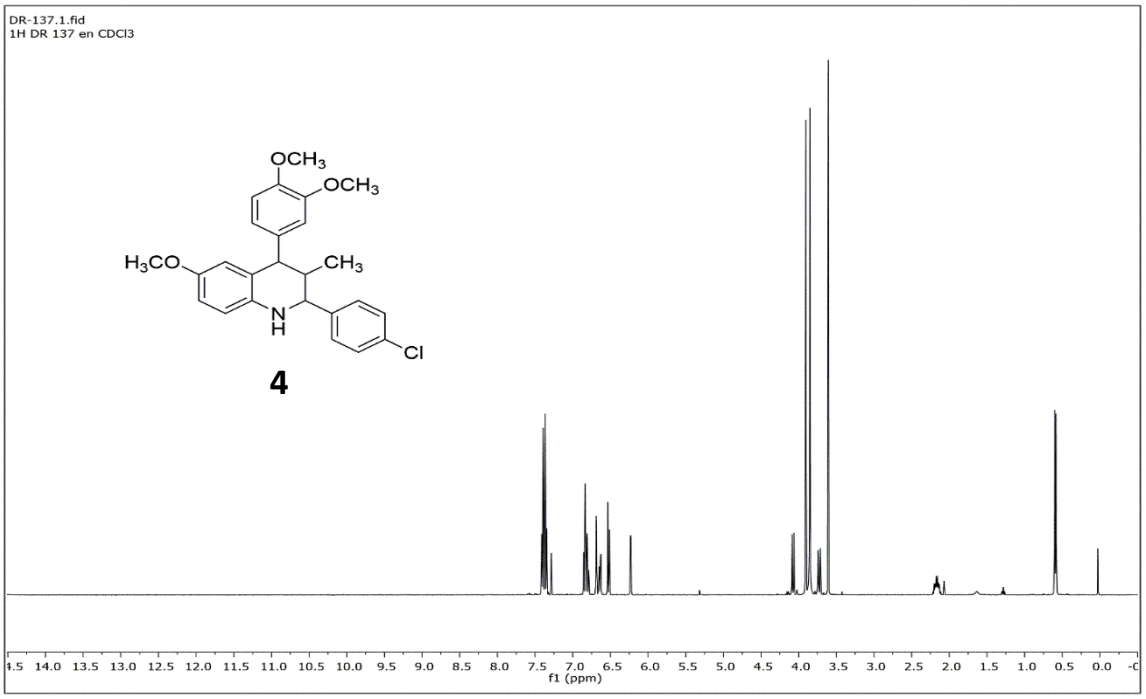

Figure S2. ^{1}H-NMR spectrum of compound **4**.

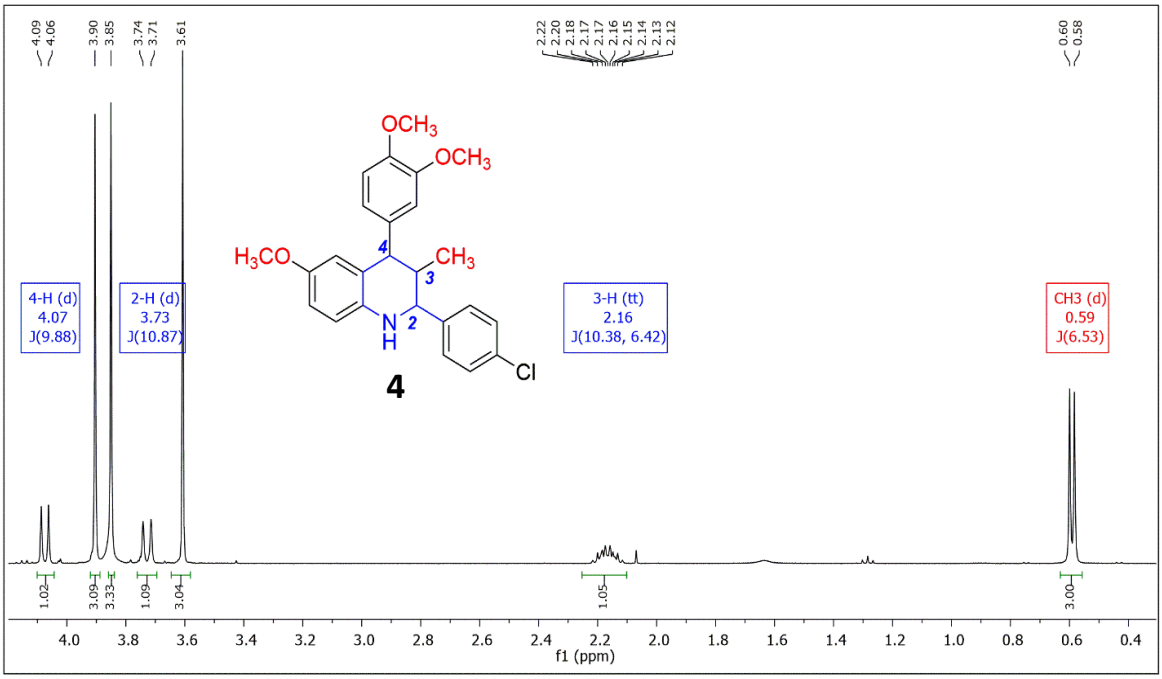

Figure S3. ^{1}H-NMR spectrum (Non-aromatic proton assignment) of compound **4**.

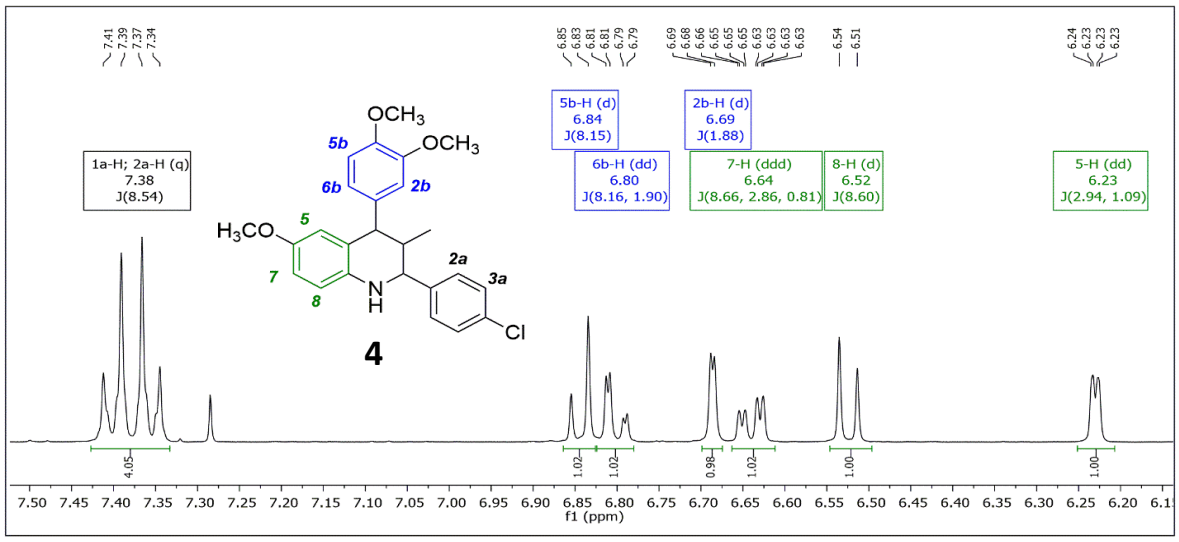

Figure S4. ^{1}H-NMR spectrum (aromatic zone) of compound **4**.

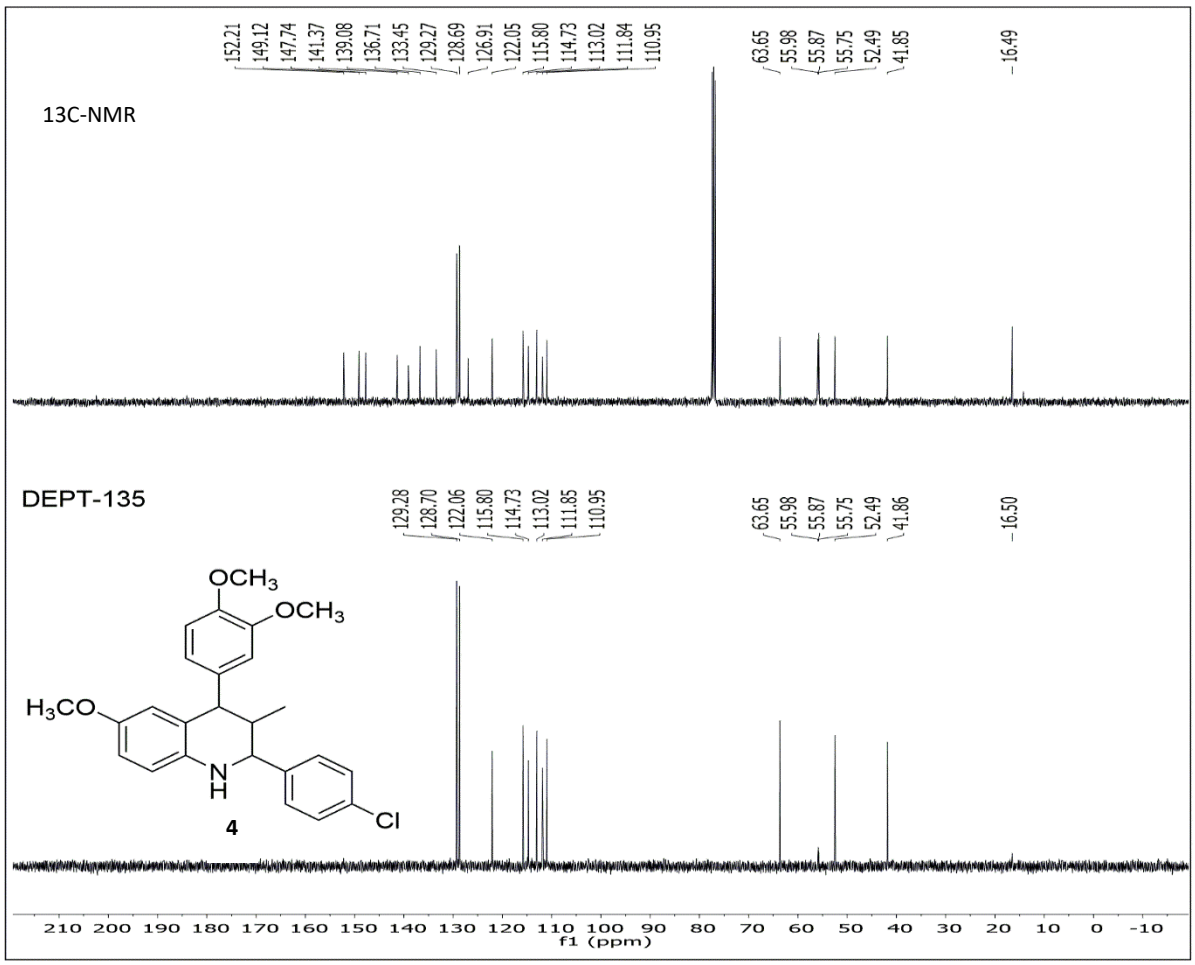

Figure S5. ^{13}C-NMR and DEPT-135 spectra of compound **4**.

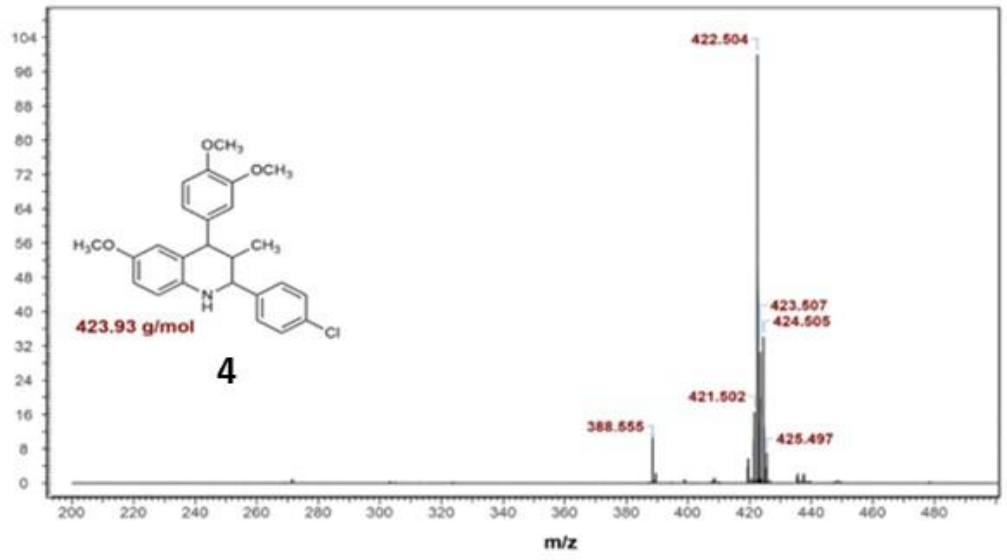

Figure 6S. GC-MS spectrum of compound **4**.

Spectra of the final 2,4-diarylquinoline product (5)

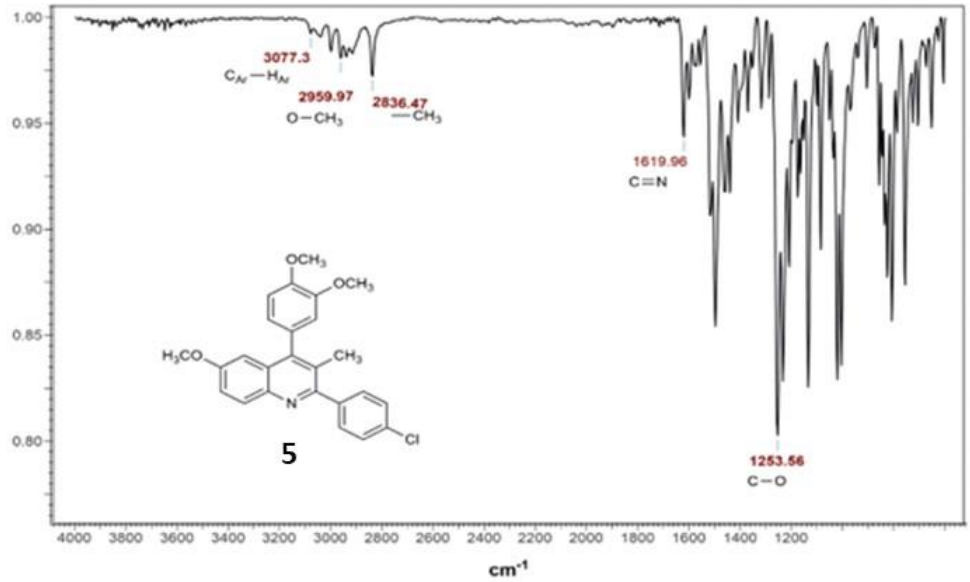

Figure S7. FT-IR spectrum of compound **5**.

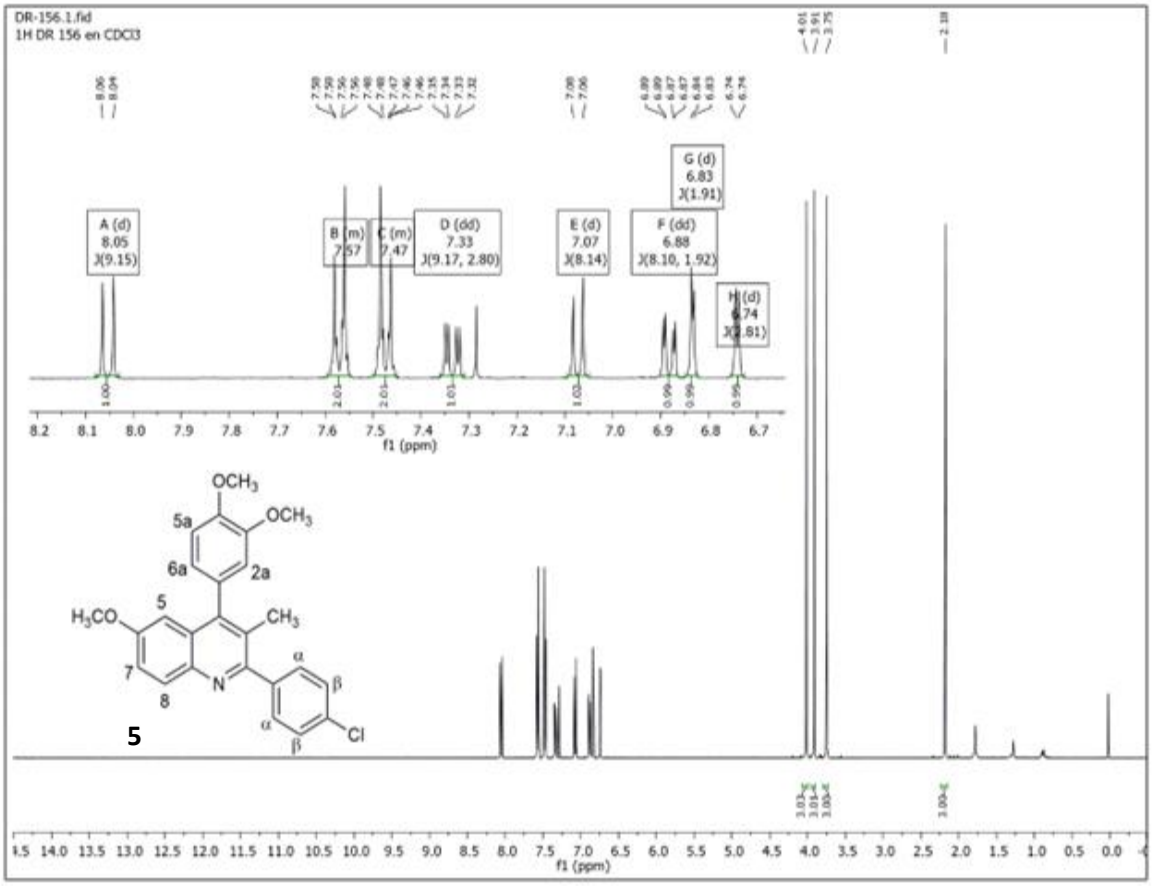

Figure S8. ^{1}H-NMR spectrum of compound **5**.

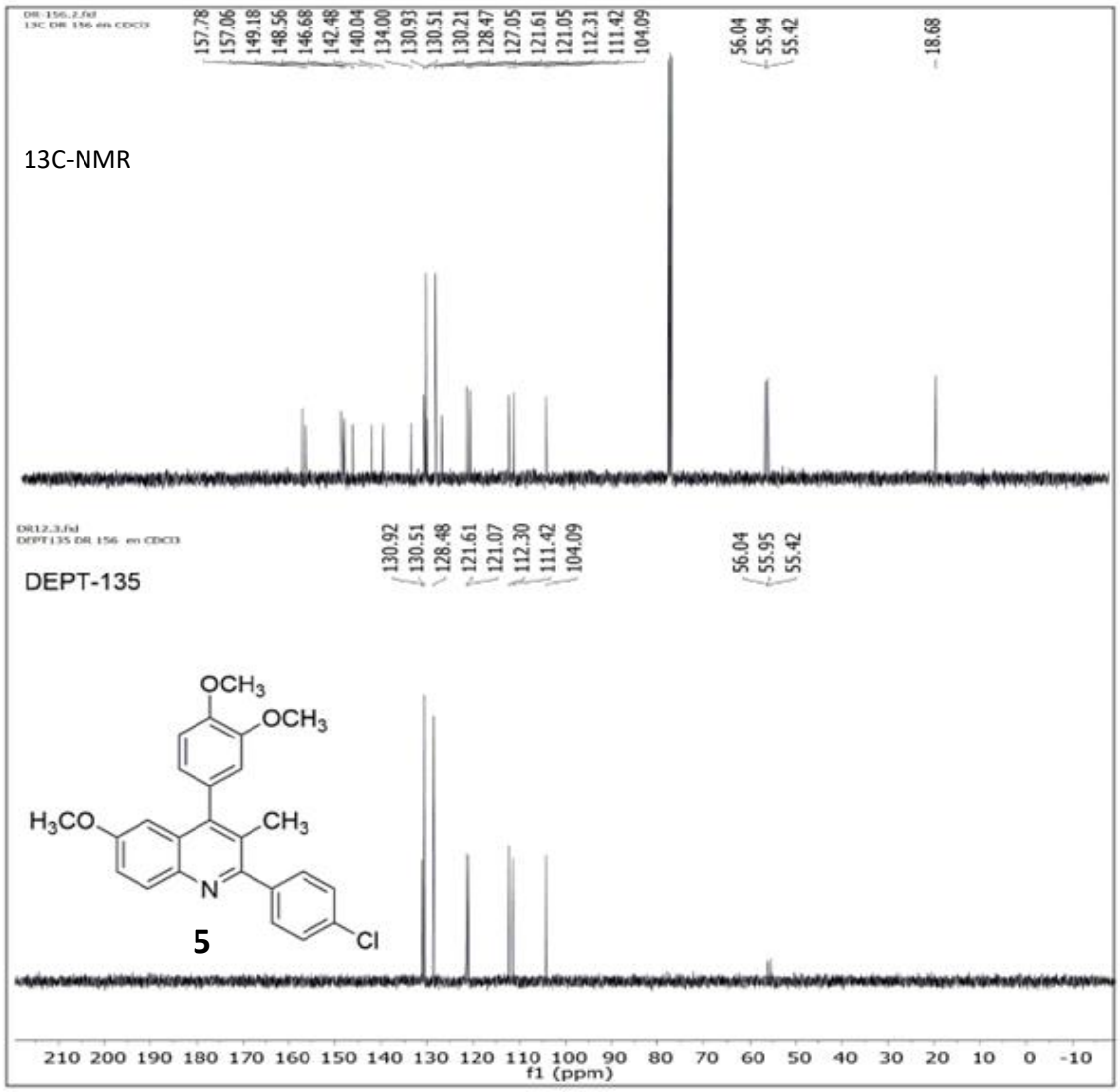

Figure S9. ^{13}C-NMR and DEPT-135 spectra of compound **5**.

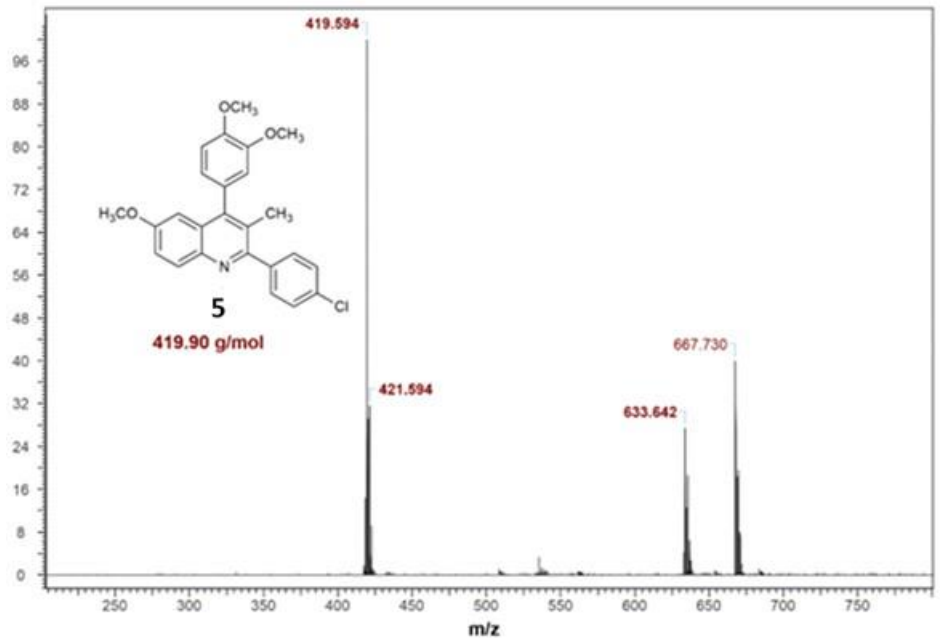

Figure S10. ESI-MS spectrum of compound **5**.

Table S1. Molecular descriptors, calculated for molecules **4 and 5** according to Molinspiration software and analyzing Lipinski's rule.

Comp.	MW[a]	cLogP[b]	HBA[c]	HBD[d]	RB[e]	TPSA[f]	Lipinski's rule violations
4	423.94	5.86	4	1	5	39.73	1
5	419.91	6.59	4	0	5	40.59	1

[a] Molecular Weight (g/mol); [b] Logarithm of the partition coefficient between *n*-octanol and water; [d] Number of hydrogen-bond acceptors, [d] Number of hydrogen-bond donors; [e] Number of Rotatable Bonds [f] Polar Surface Area ($Å^2$).