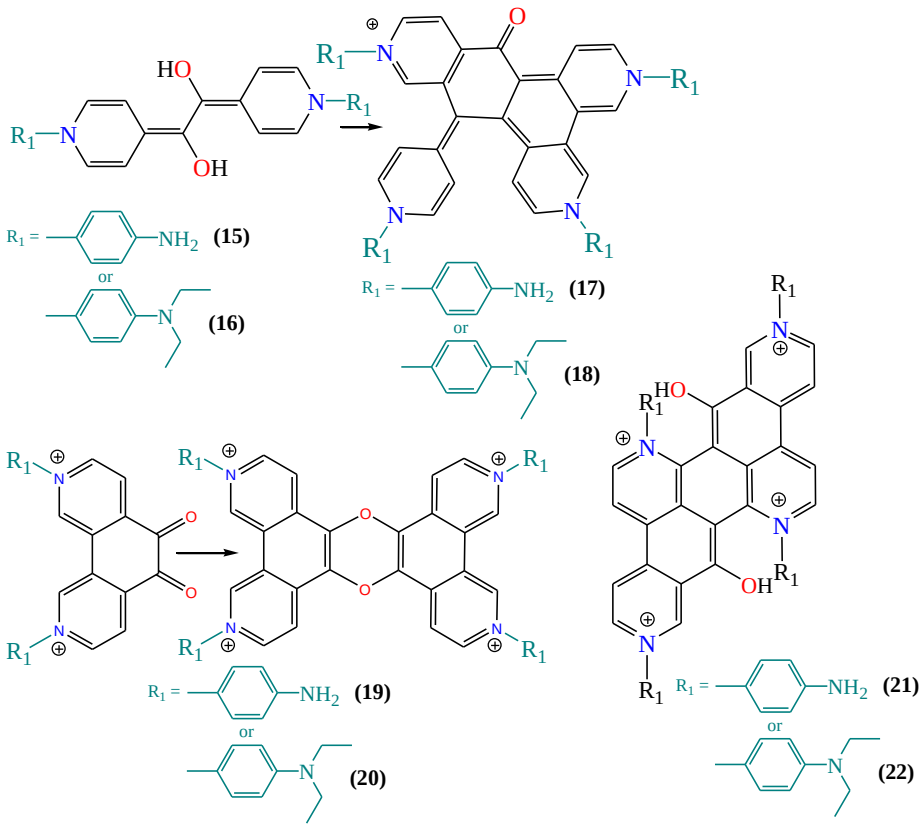
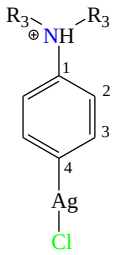
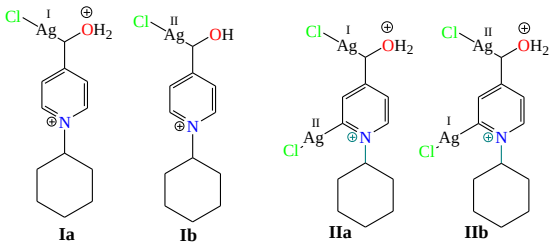
SUPPORTING INFORMATION

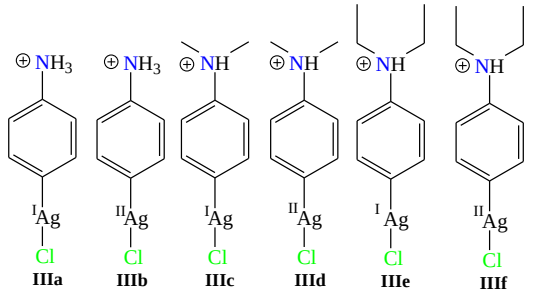


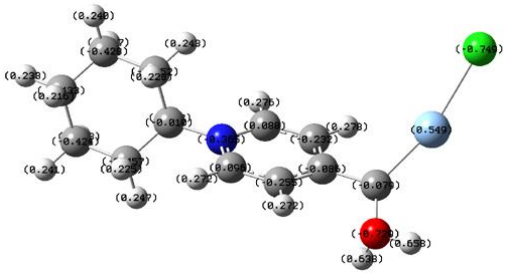
Scheme S1. Chemical diagrams of studied phenazines **15**–**22**, respectively.



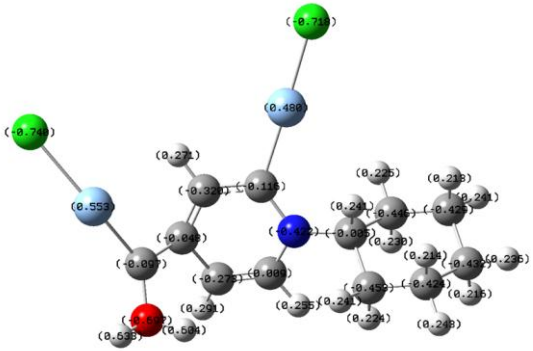
R_3 = H, CH_3 or CH_2CH_3



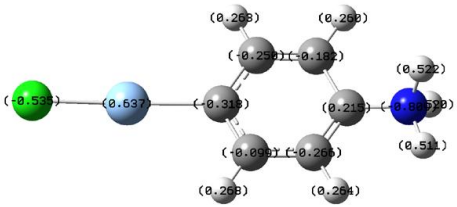




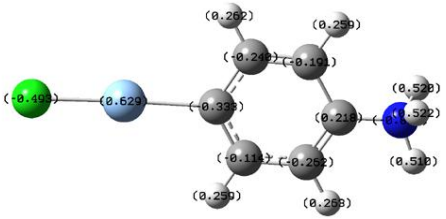
Ia



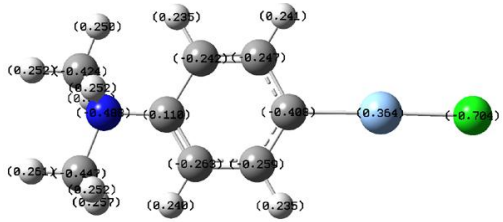
IIb



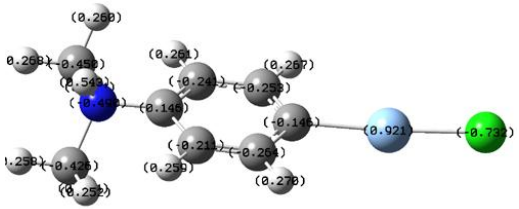
IIIa



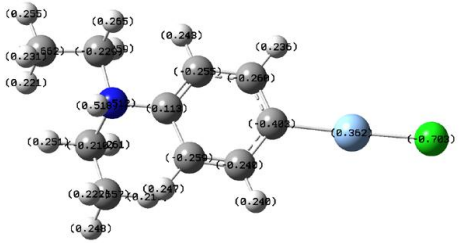
IIIb



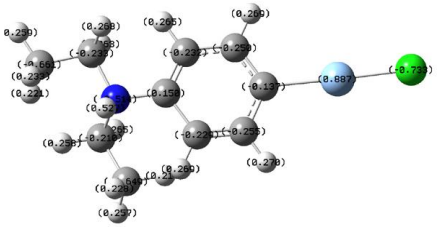
IIIc



IIId

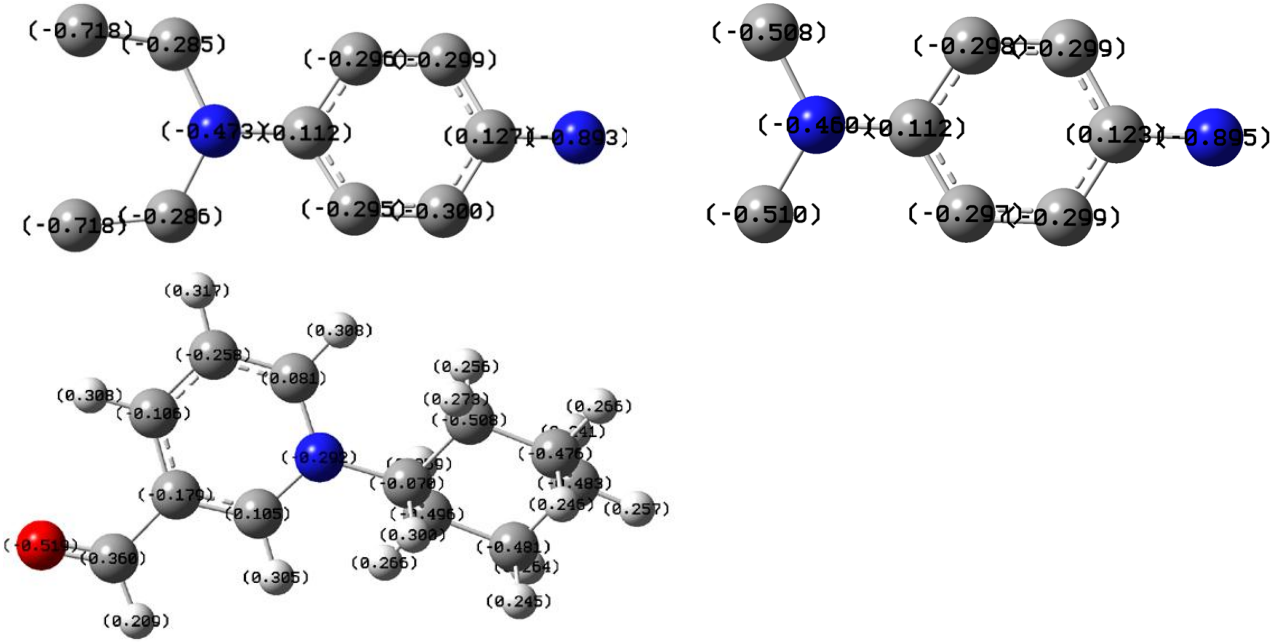


IIIe



IIIf

Scheme S2. Chemical diafram of the organometallics of type **I**–**III**, from the corresponding strarting aniline reagents; Most stable molecular geometry and the theoretical q_X(NBO) data, here X = Ag, Cl, C, O and N, respectively.



Scheme S3. Most stable conformation of the N,N-diethyl-p-phenylenediamine, N,N-dimethyl-p-phenylenediamine, and N-cyclohexyl-3-pyridyl carbaldehyde; Theoretical q_X(NBO) values, were the X = C, N and O; The H–atoms are omitted.

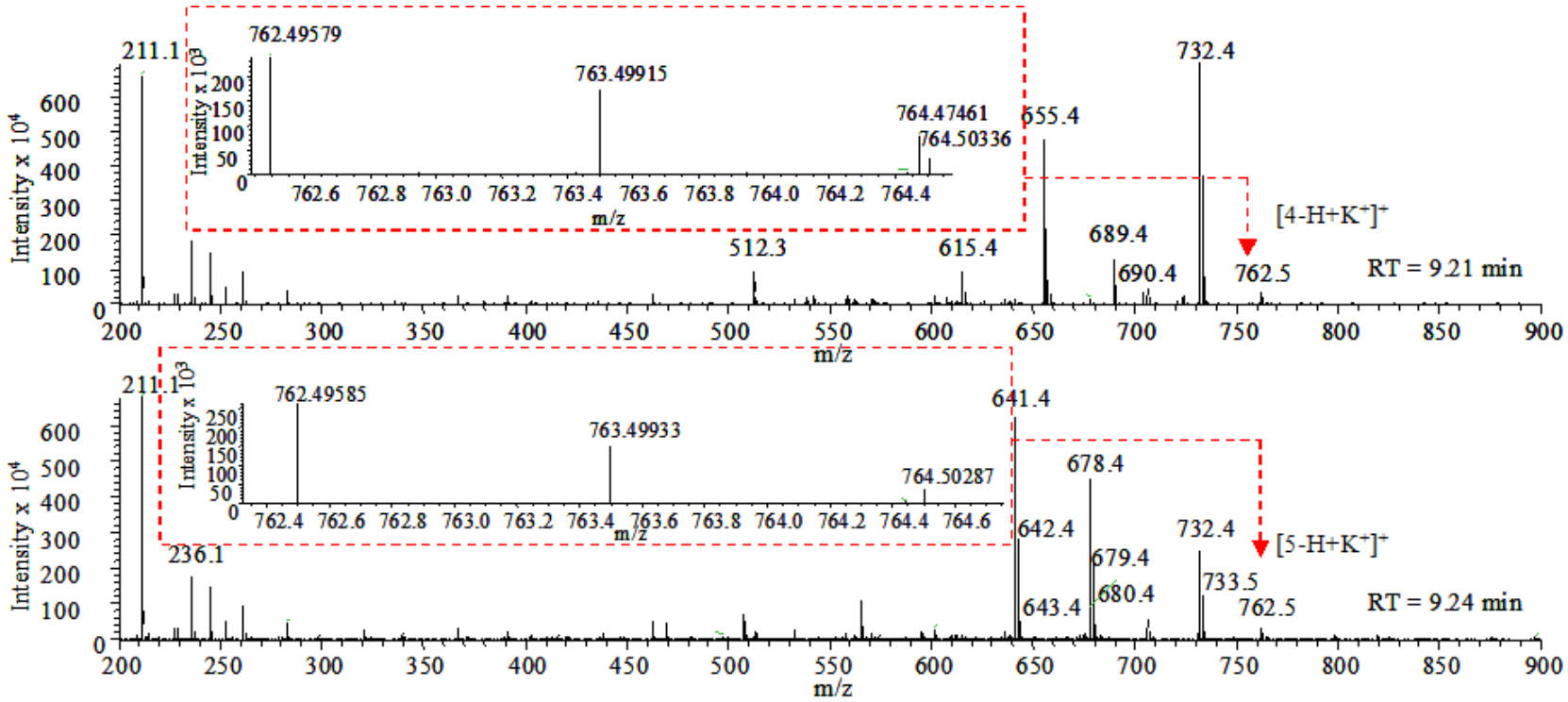


Figure S1. ESI–MS spectra of **4** and **5**, respectively.