Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting Information:

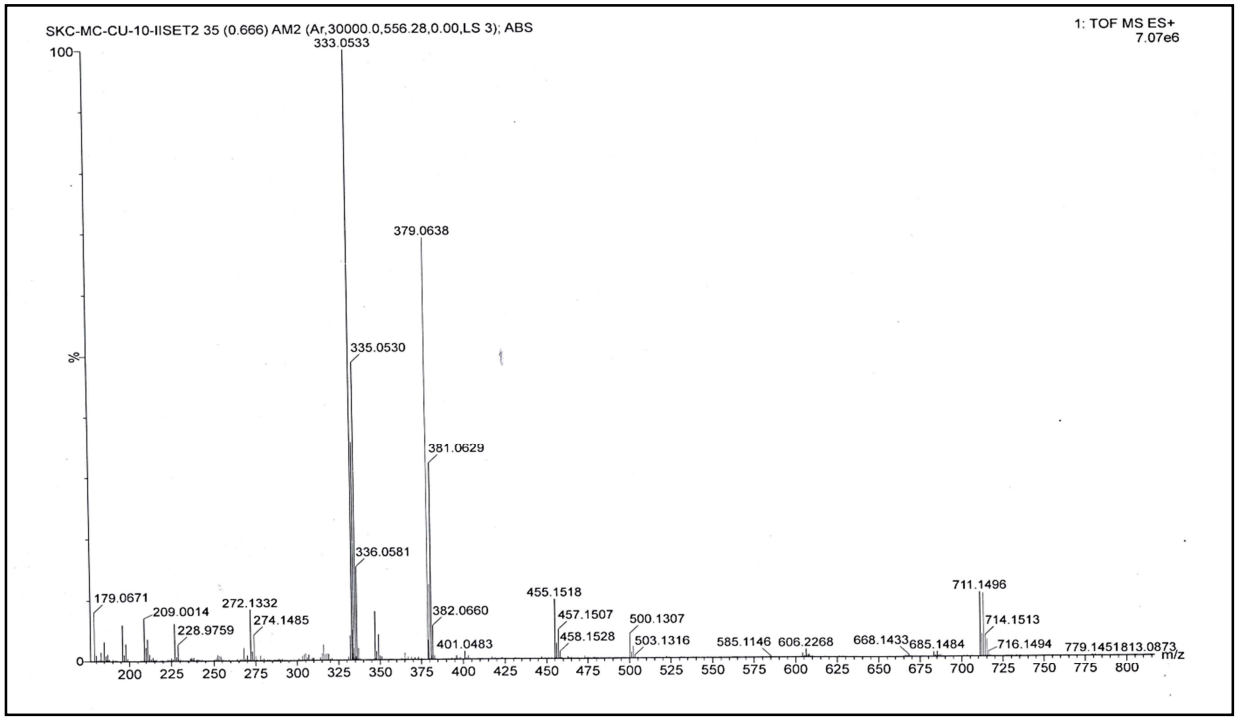

Fig. S1: ESI-MS spectra of complex **1**.

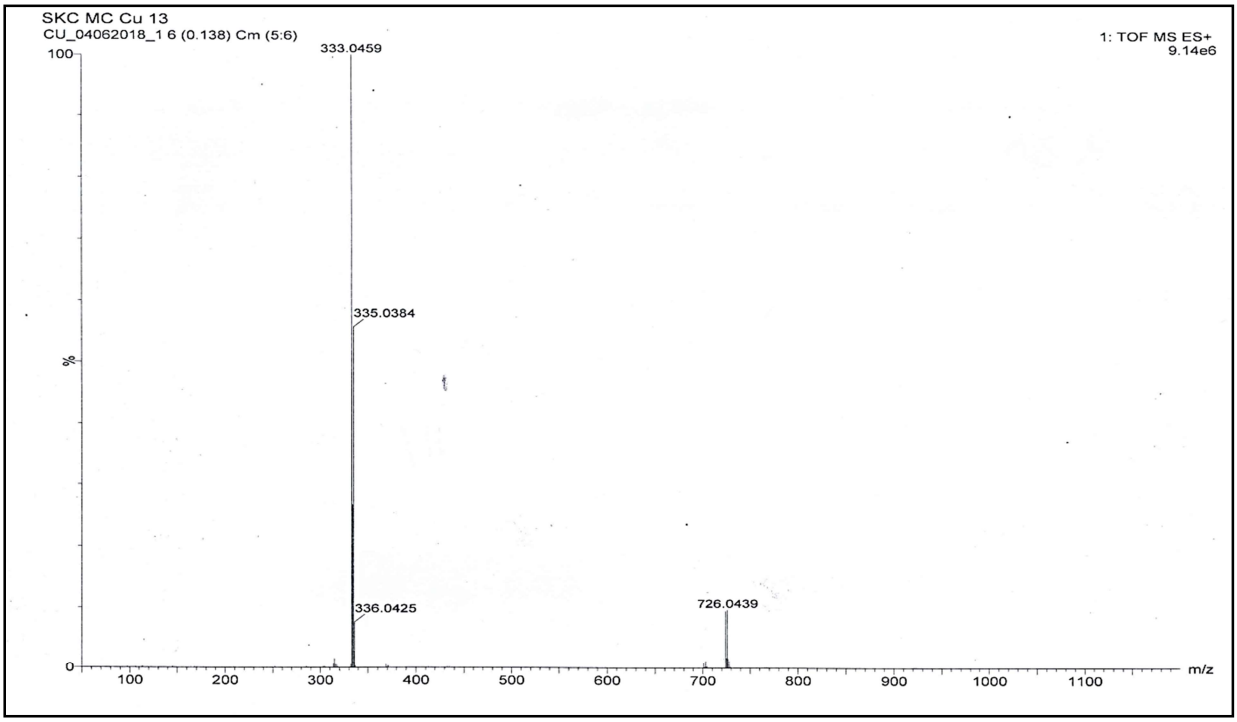

Fig. S2: ESI-MS spectra of complex **2**.

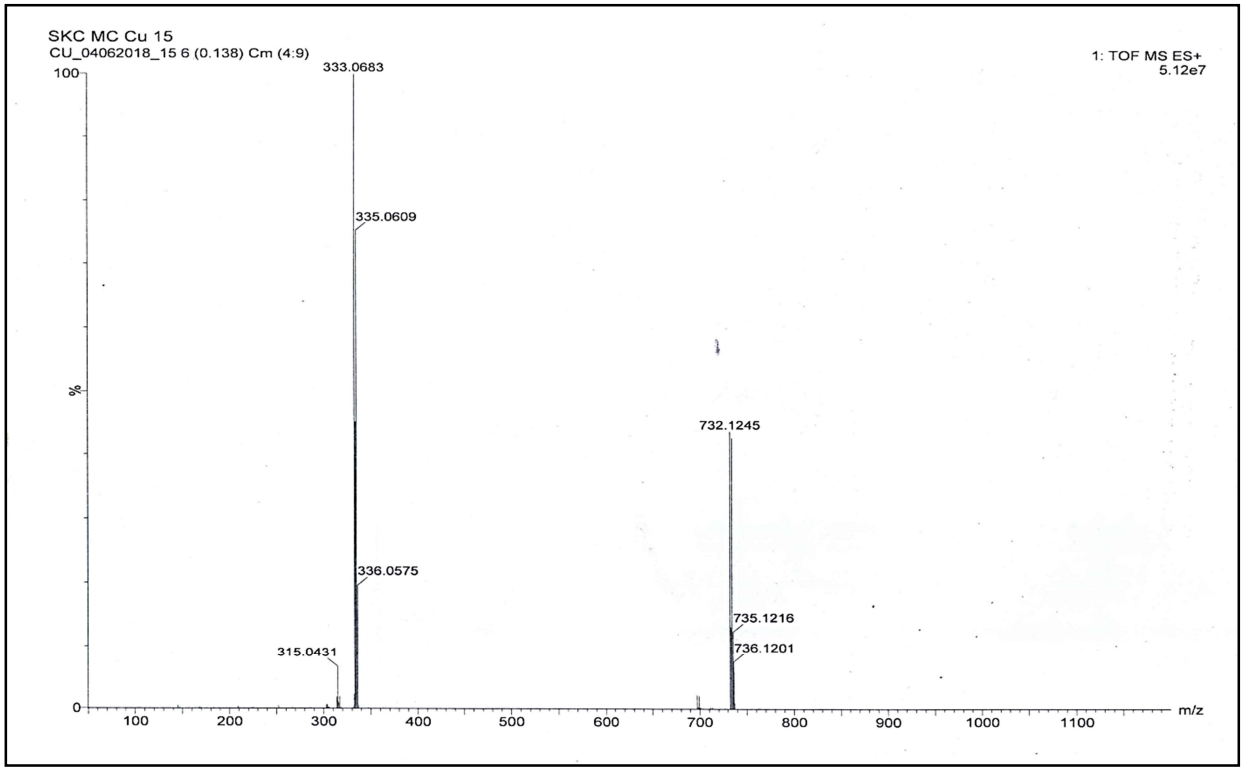

Fig. S3: ESI-MS spectra of complex **3**.

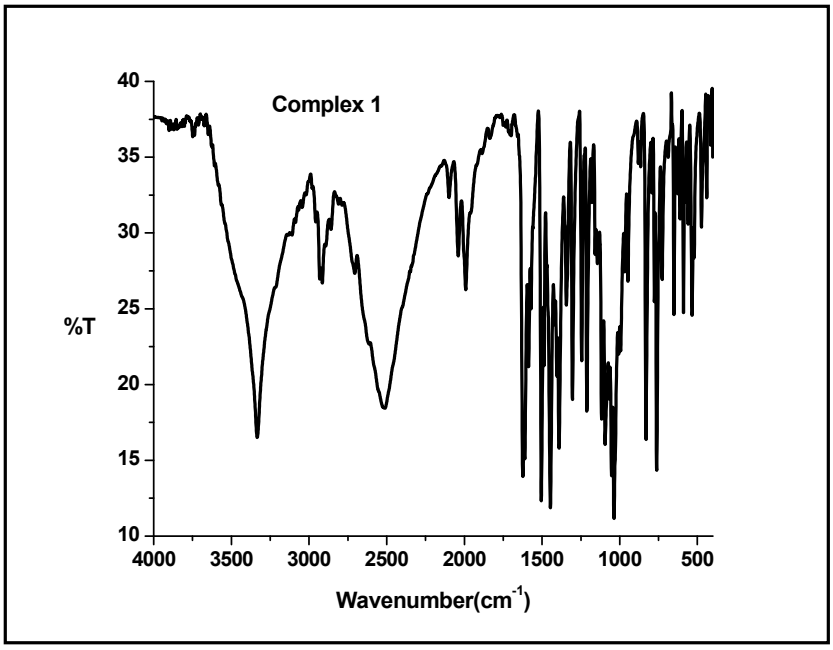

Fig. S4: IR spectra of complex **1**.

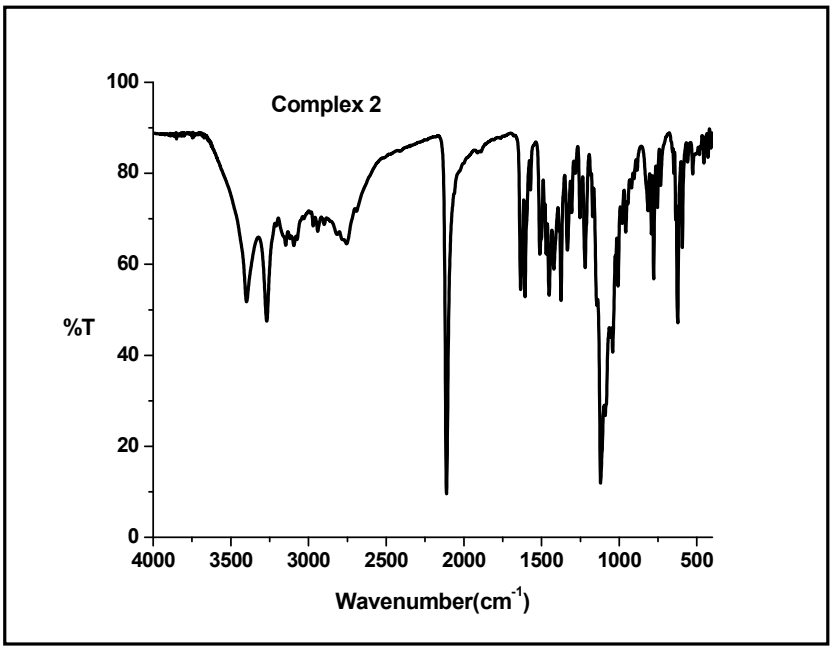

Fig. S5: IR spectra of complex **2**.

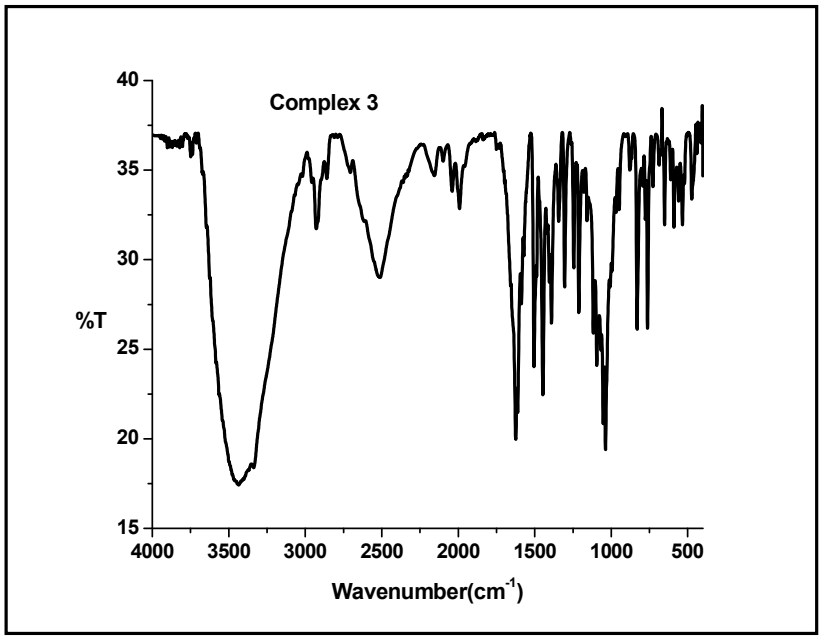

Fig. S6: IR spectra of complex **3**.

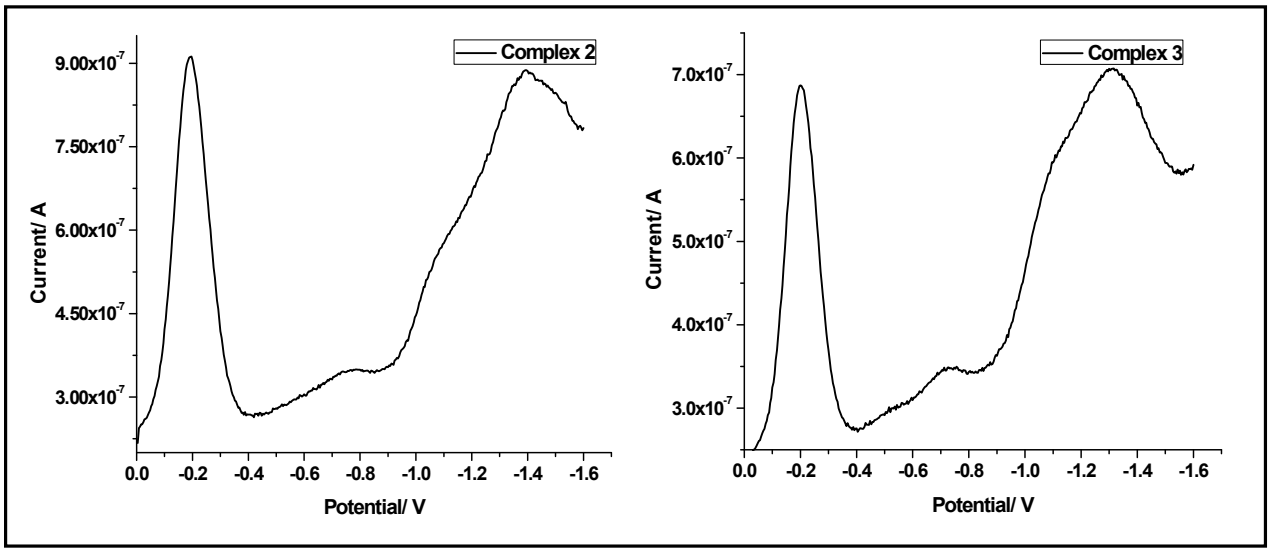

Fig.S7: Differential Pulse Voltamograms of complexes **2** and **3** in DMF medium.

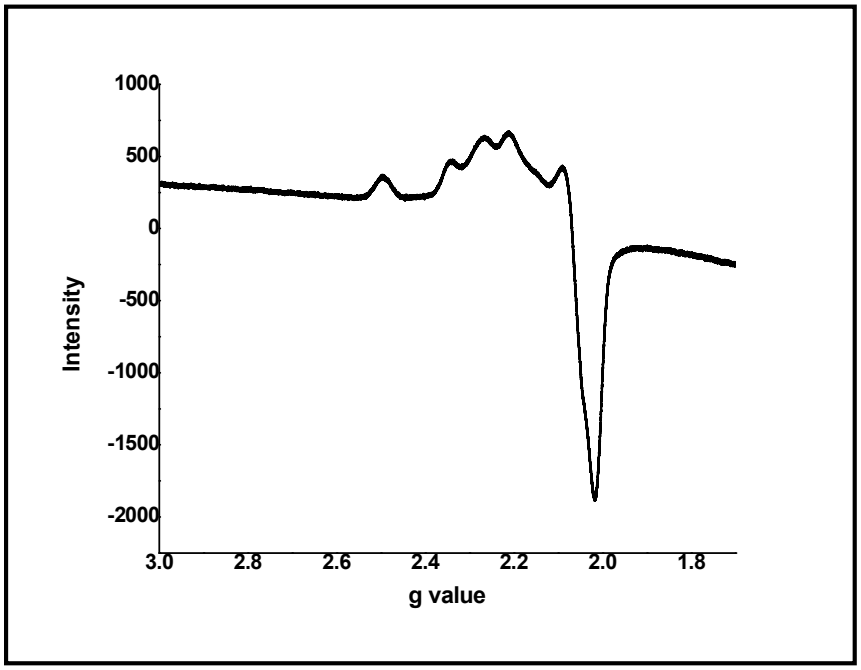

Fig. S8: X-band EPR spectra of complex **3**.

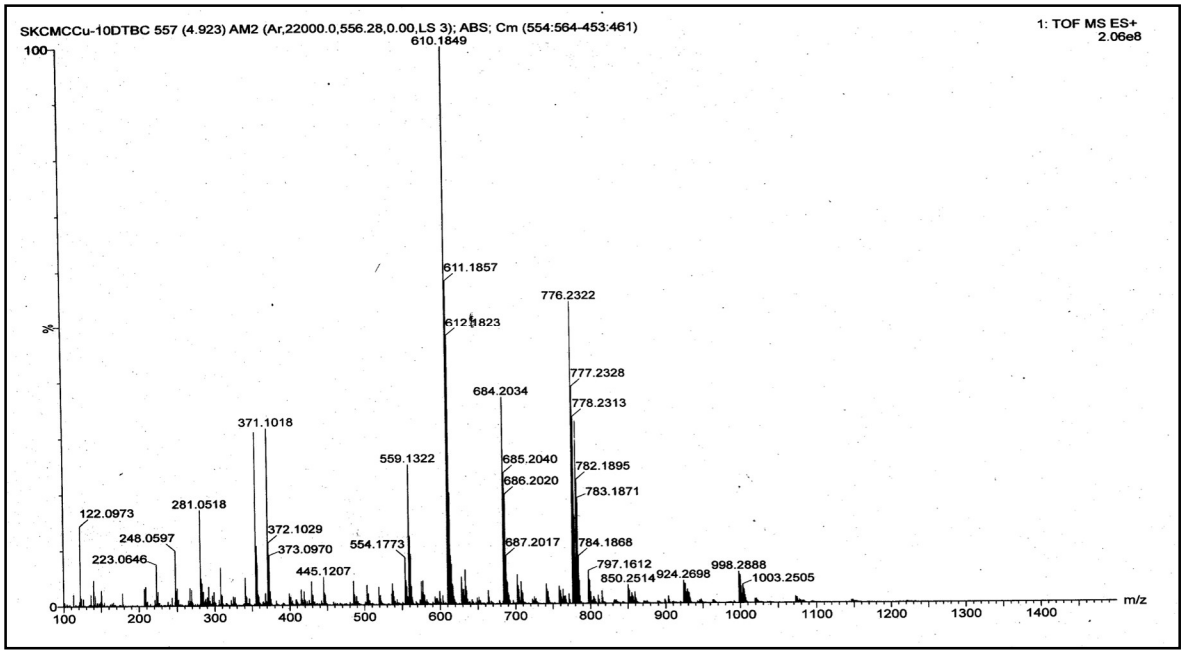

Fig. S9: ESI-MS of a 1:100 mixture of complex **1** and 3,5-DTBC in MeOH after 10-15 minutes of mixing.

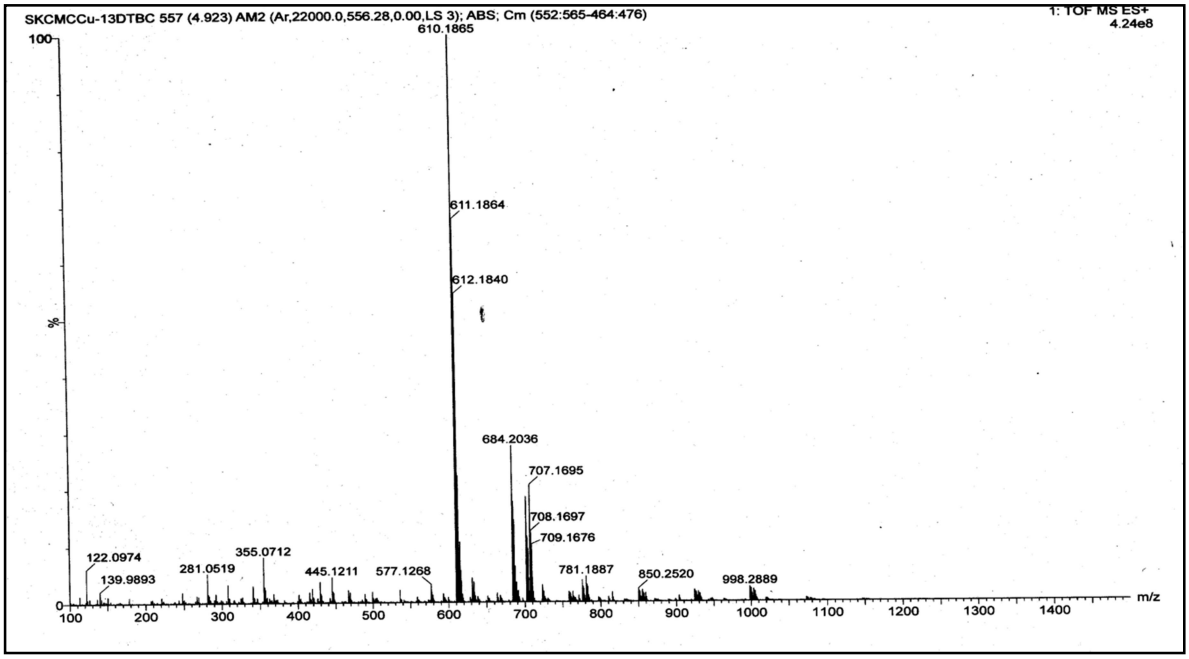

Fig. S10: ESI-MS of a 1:100 mixture of complex **2** and 3,5-DTBC in MeOH after 10-15 minutes of mixing.

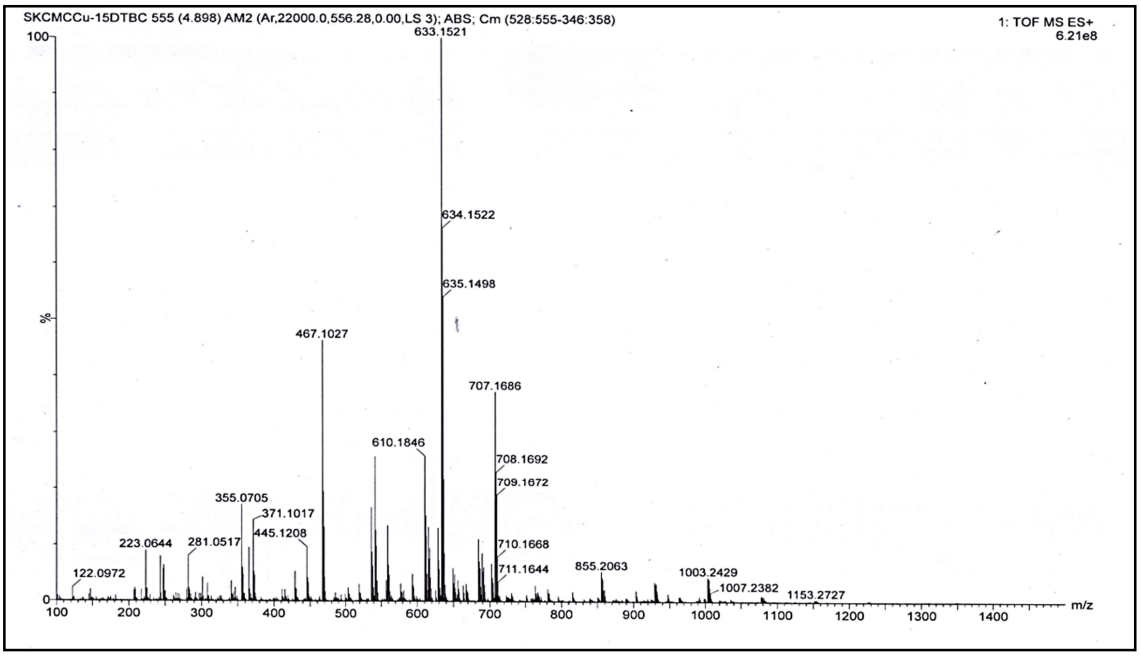

Fig. S11: ESI-MS of a 1:100 mixture of complex **3** and 3,5-DTBC in MeOH after 10-15 minutes of mixing.

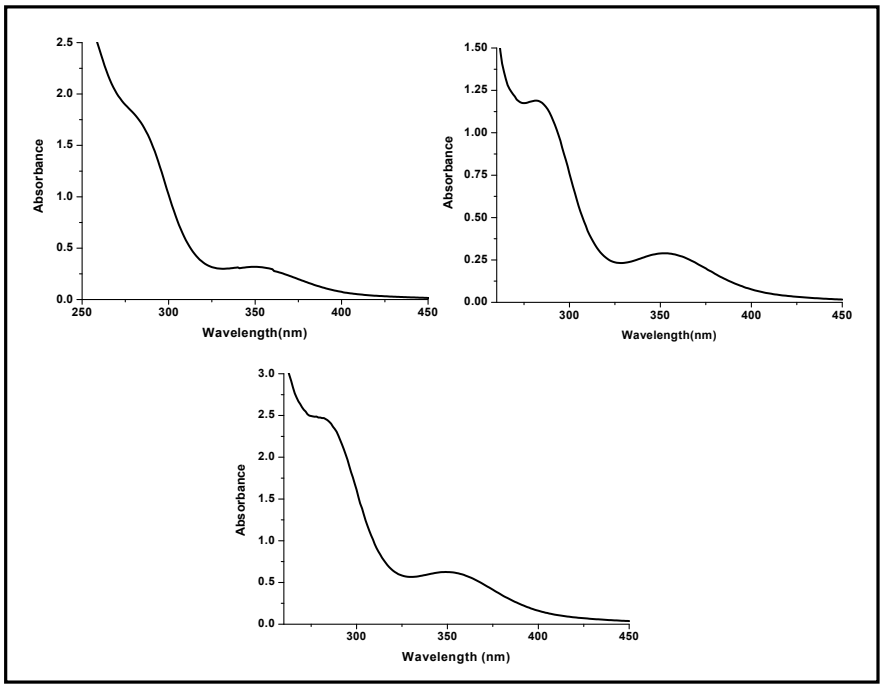

Fig. S12: Electronic spectra of I_3^- obtained from the oxidation of I^- by H_2O_2 generated during catechol oxidation catalysed by complexes **1, 2** and **3**.

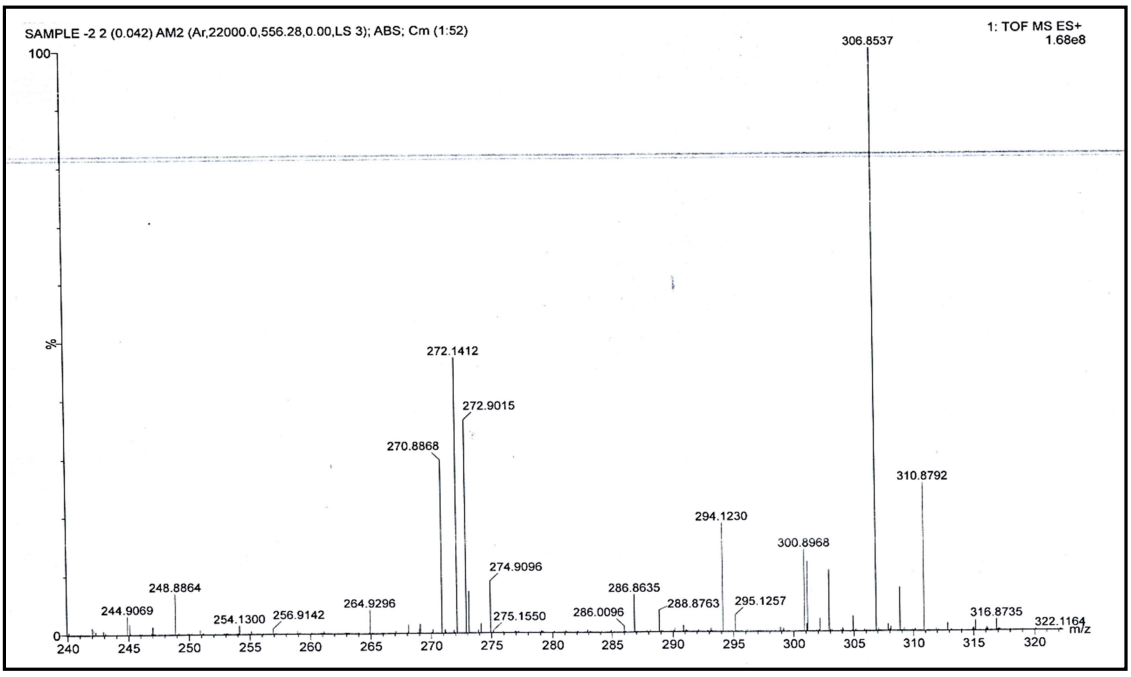

Fig. S13: ESI-MS of complex **1** with excess of Na_2S.

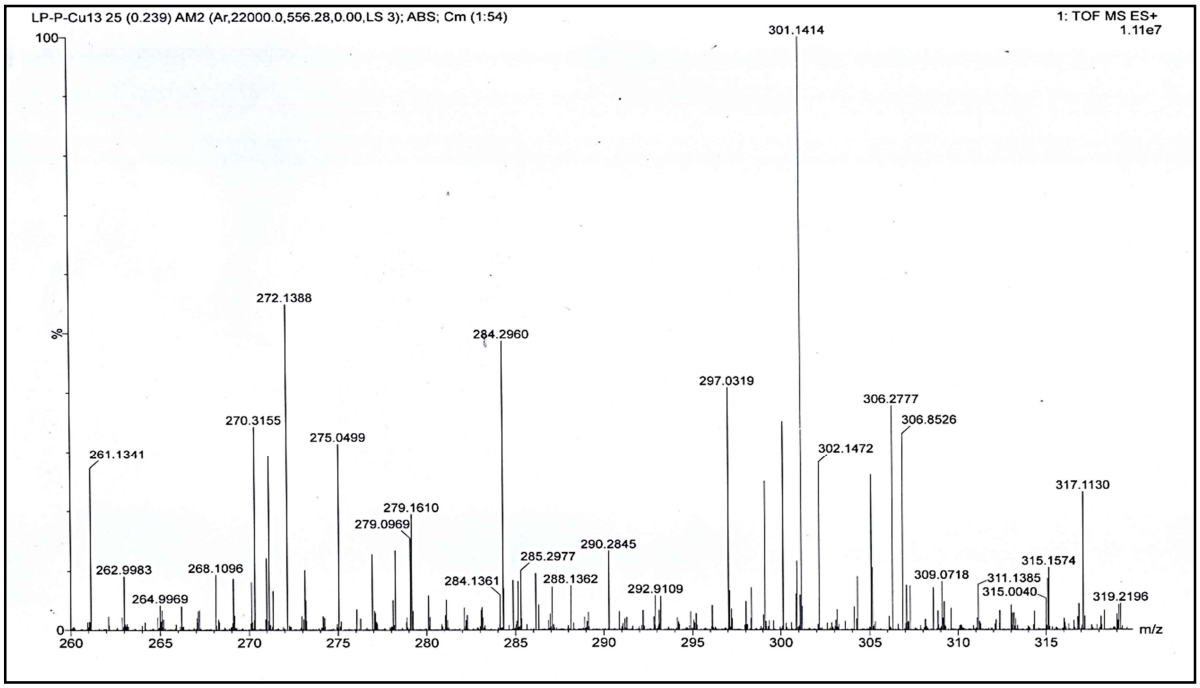

Fig. S14: ESI-MS of complex **2** with excess of Na_2S.