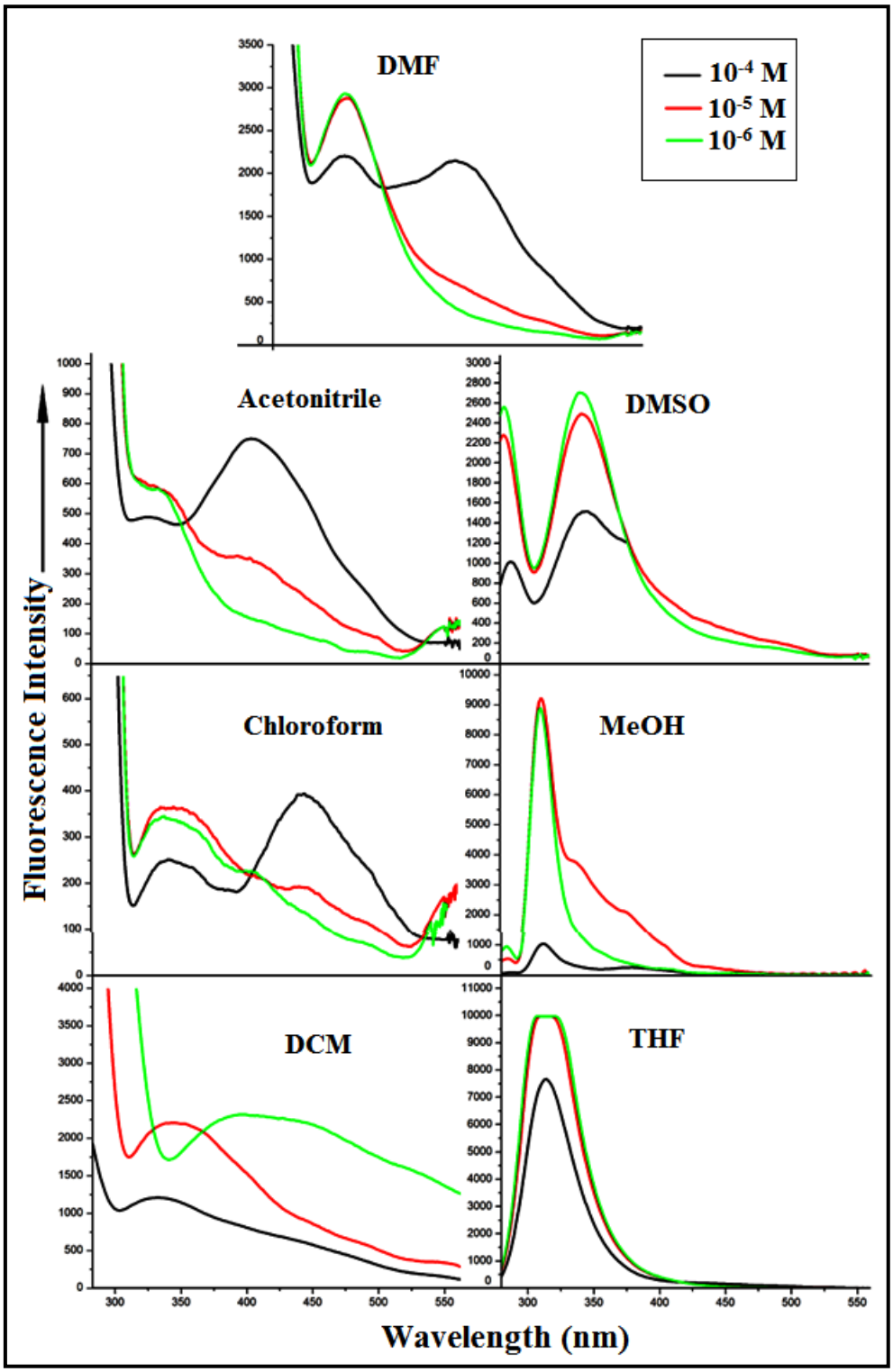
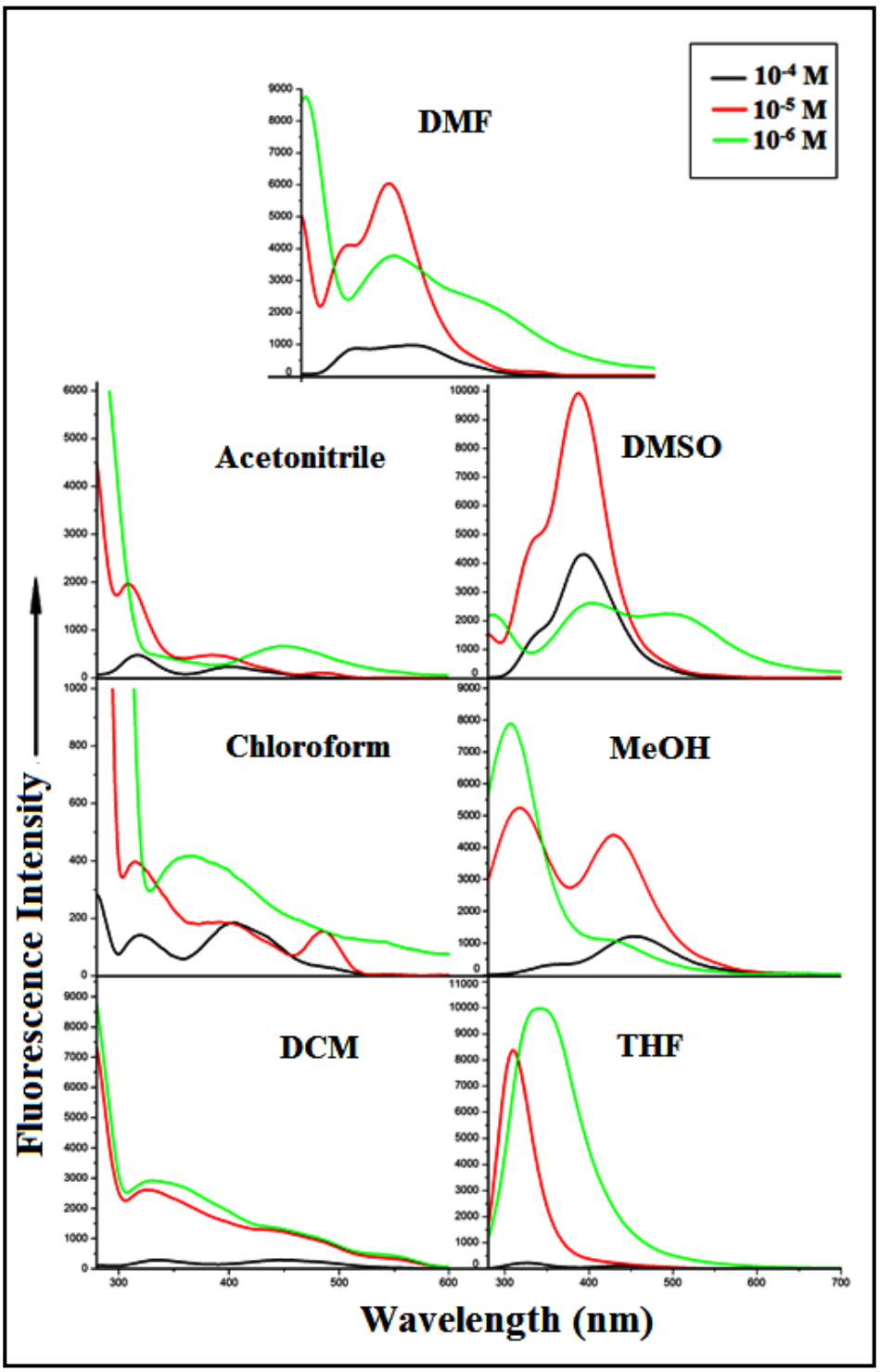
Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Materials



(a)



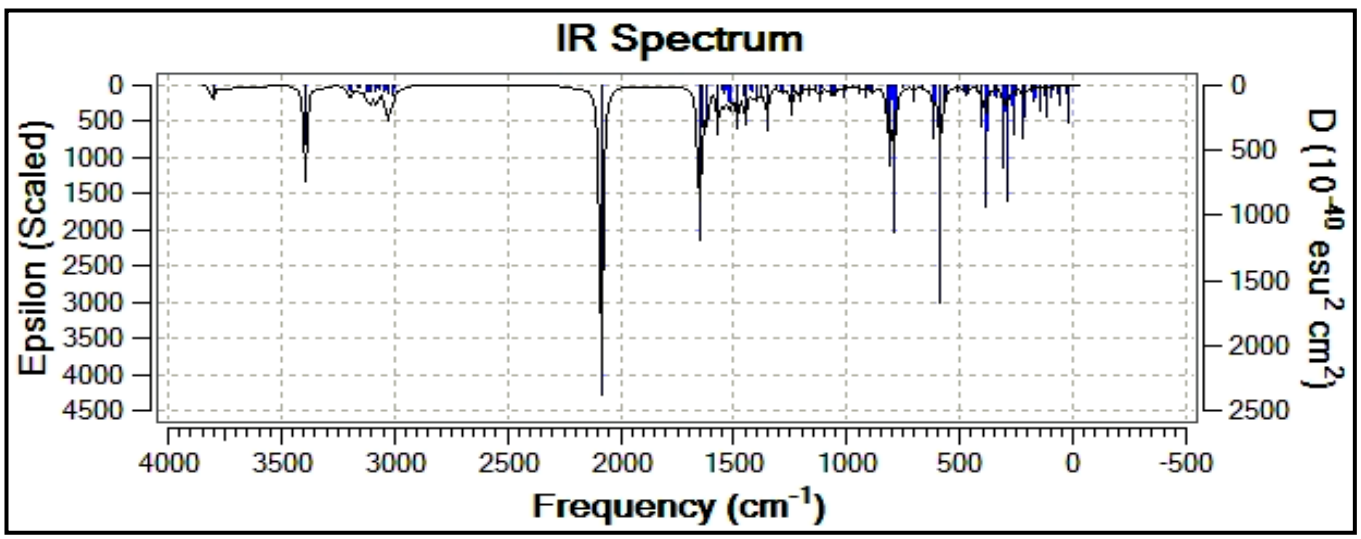
(b)

S1. Fluorescence emission spectra in 10^{-4} M, 10^{-5} M, 10^{-6} M different solvents of (a) ligand (DEMP) and (b) complex.

S2: Theoretical and experimental IR-frequency

Bond type	Experimental (cm^{-1})	Theoretical (cm^{-1})
υ Mn– N3(-NCS)	-	296.35
υ Mn – N1	1598.8	1579.72
υ Mn – N2	983.85	984.50
υ Mn – O1	1095.93	1348.54
υ Mn – O2w	3386.87	3393.26

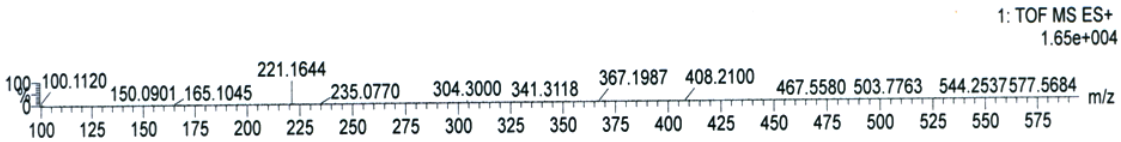
IR spectrum



Elemental Composition Report

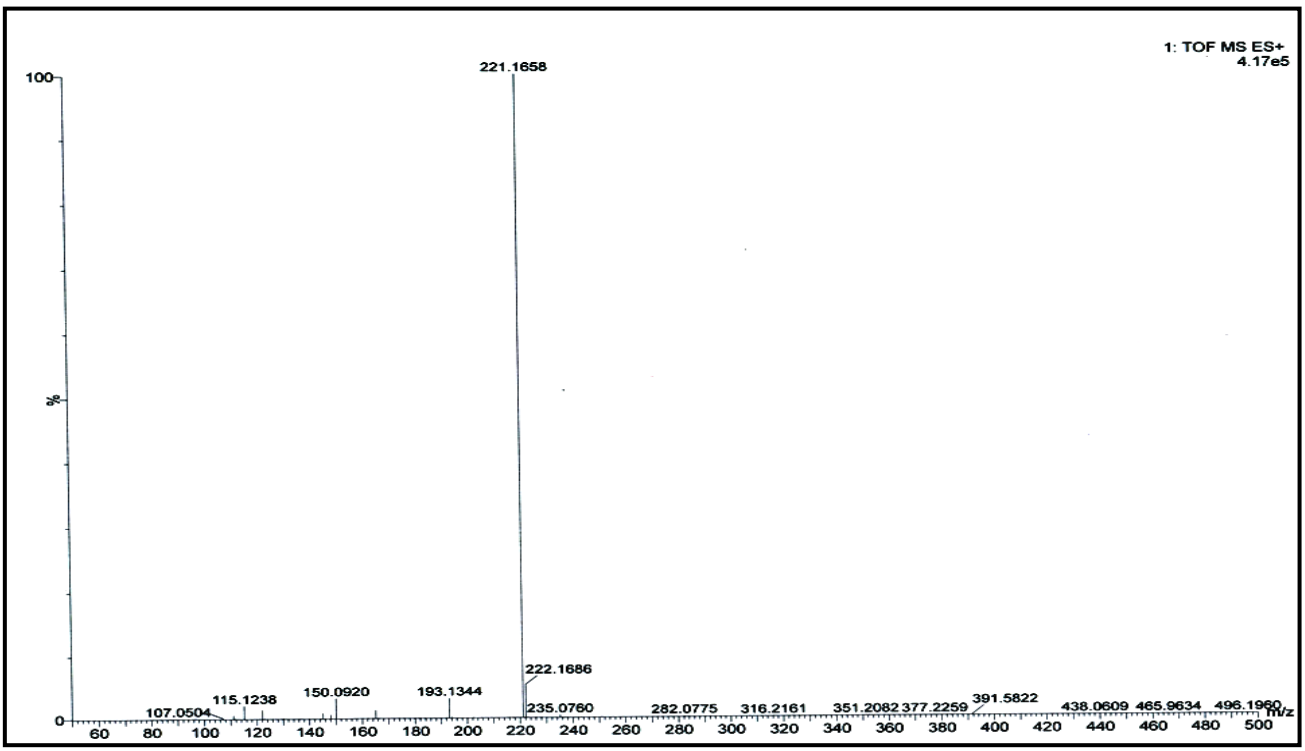
Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -1.5, max = 50.0
Element prediction: Off
Number of isotope peaks used for i-FIT = 3

Monoisotopic Mass, Even Electron Ions
284 formula(e) evaluated with 1 results within limits (all results (up to 1000) for each mass)
Elements Used:
C: 0-100 H: 0-100 N: 0-50 O: 0-50

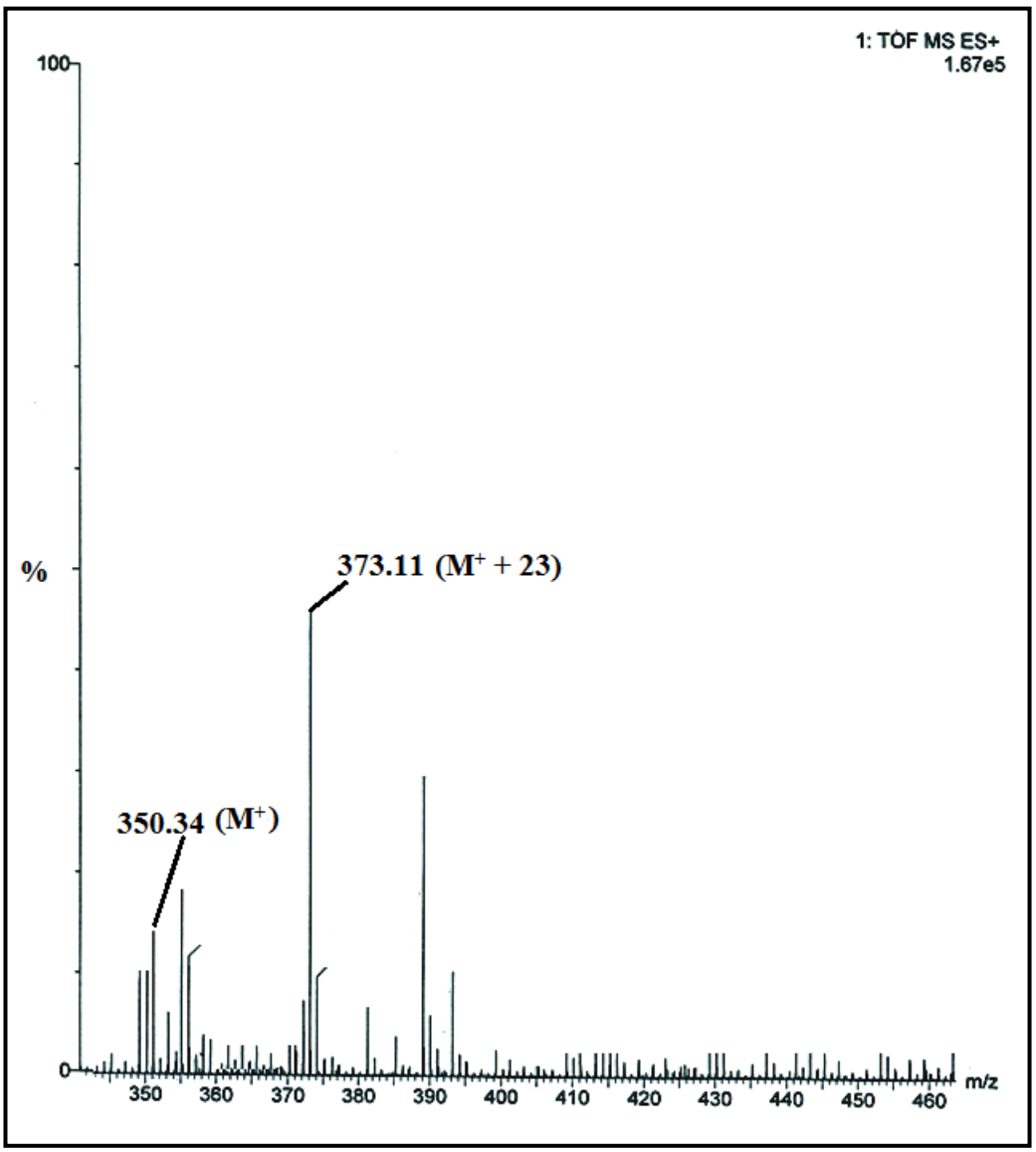


Minimum:				-1.5				
Maximum:		0.2	10.0	50.0				
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Norm	Conf(%)	Formula
221.1644	221.1654	-1.0	-4.5	4.5	53.0	n/a	n/a	C13 H21 N2 O

S3: (a) Elemental composition of the ligand



S3: (b) Mass spectra of the ligand



S4: Mass spectra of the complex