

Supplementary data

Table S₁: Most significant SERS frequencies compared with Raman bands of the corresponding coordination compounds

SERS phen on Ag ^a	Raman Ag(I) complex ^b	SERS phen on Cu ^a	Raman Cu(I) complex ^c	SERS phen on Ni ^a	Raman Ni(II) complex ^d	SERS phen on Fe	Raman Fe(II) complex ^d
419	419	428	426	427	427	433	436
554	—	560	559	560	560	560	560
720	721	723	733	734	736	738	726
1047	1050	1050	1044	1056	1056	1056	1056
1298	1302	1301	1308	1308	1308	1298	1298
1342	1341	1341	1345	1343	—	1342	—
1408	1410	1418	1425	1425	1424	1430	1422
1447	1448	1449	1452	1454	1454	1454	1452
1508	1511	1508	1513	1519	1518	1512	1511
1583	—	1582	—	1584	1588	1577	1577
1621	1622	1623	1623	1625	1626	1630	1626

^aReference 11

^bReference 22

^cReference 26

^dReference 27

Figure S₁-Comparison between observed and calculated infrared spectra of phen

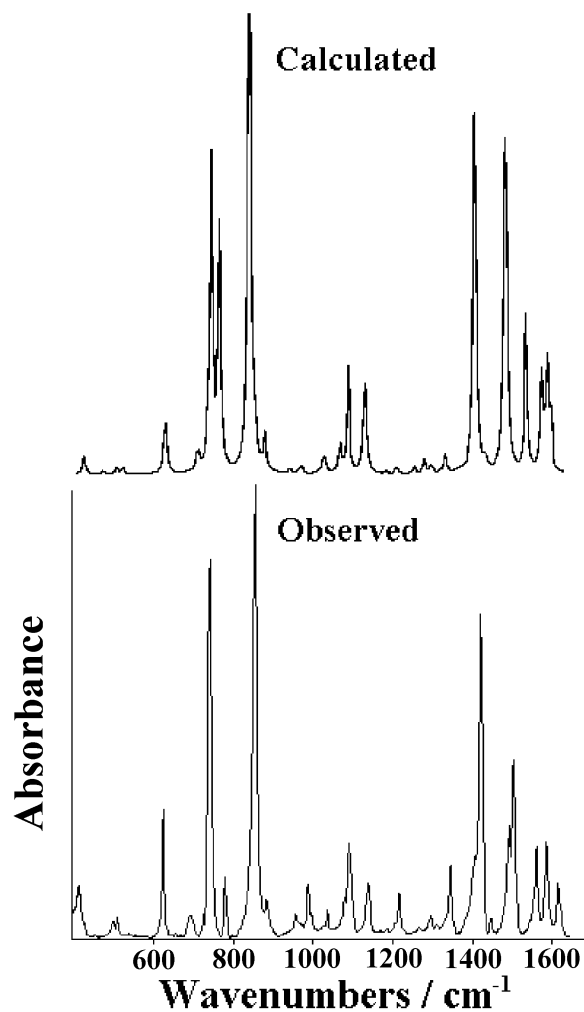


Figure S₂-Comparison between observed and calculated Raman spectra of phen

