

Supporting Information

Supplementary Figure Captions:

Figure S1: ^1H NMR of $\text{Mo}[\text{L}^{\text{a}}]_2$ in CDCl_3 .

Figure S2: ^{13}C NMR of $\text{Mo}[\text{L}^{\text{a}}]_2$ in CDCl_3 .

Figure S3: Molecular orbital diagrams of $\text{Mo}[\text{L}^{\text{a}}]_2$: (i) HOMO-1, (ii) HOMO, (iii) LUMO, (iv) LUMO+1 , and (v) LUMO+2.

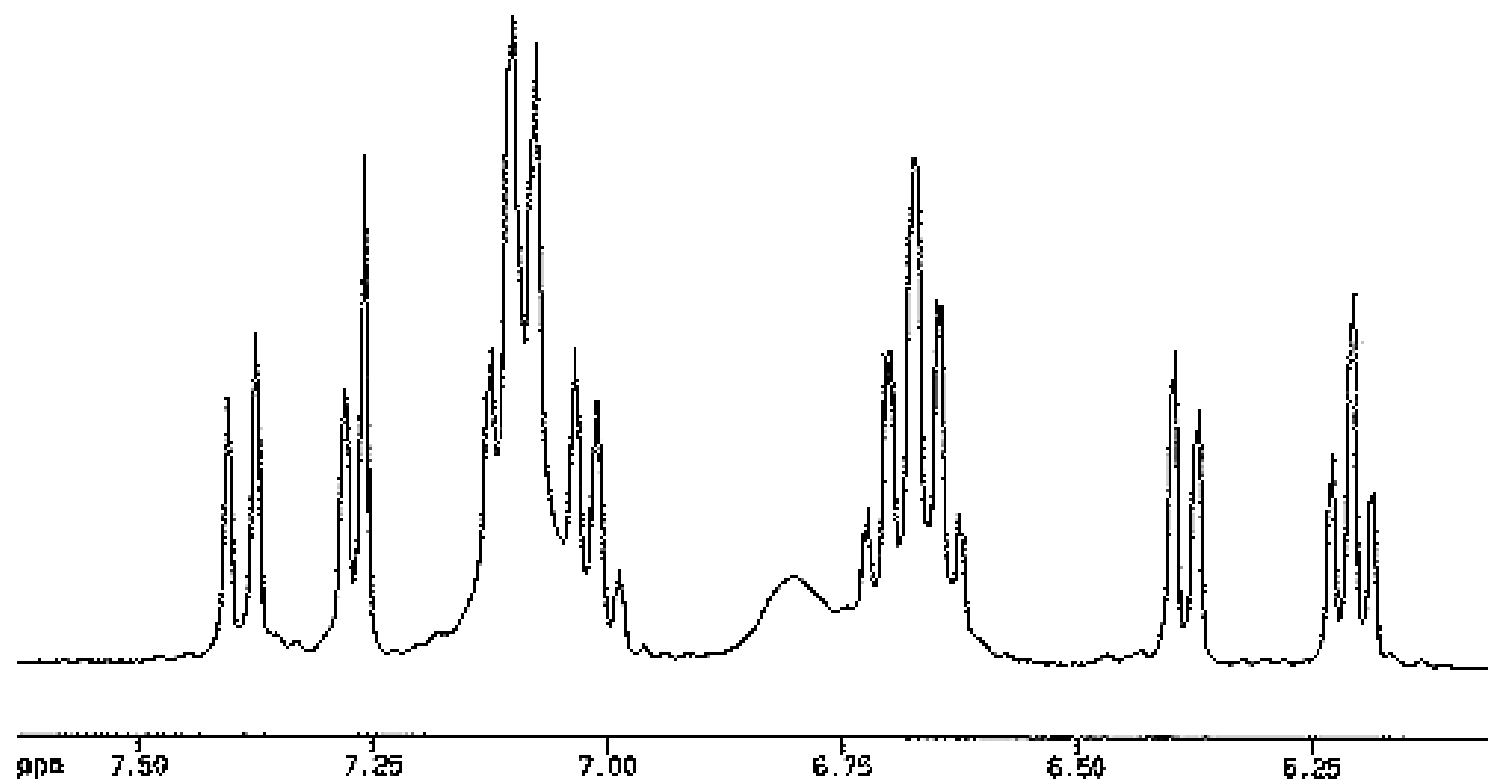


Figure S1

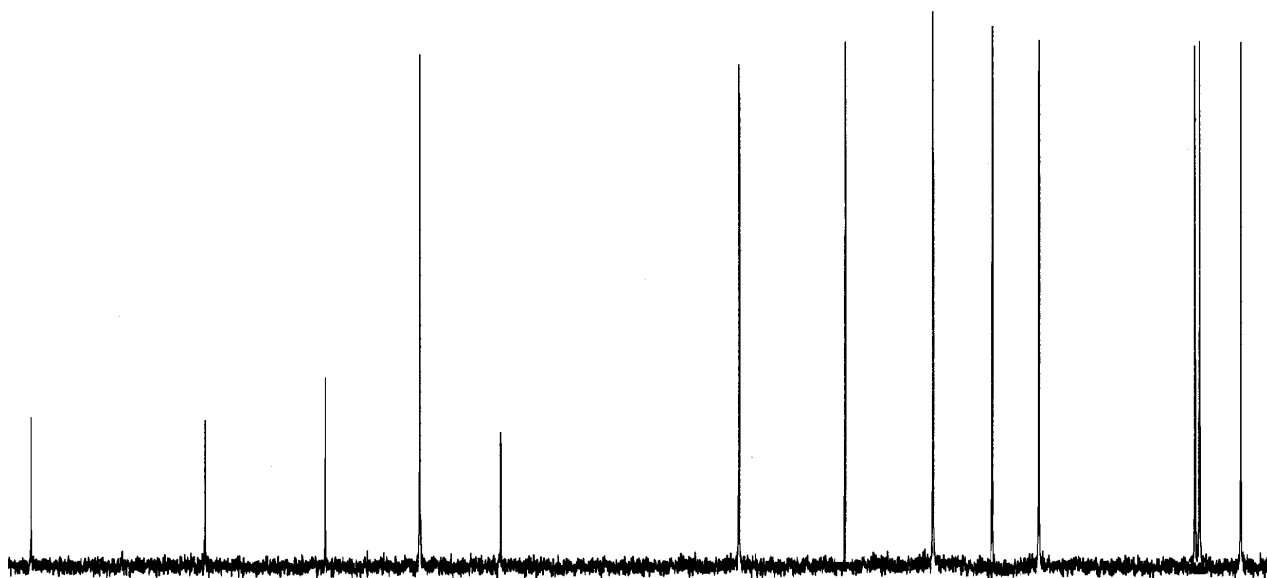
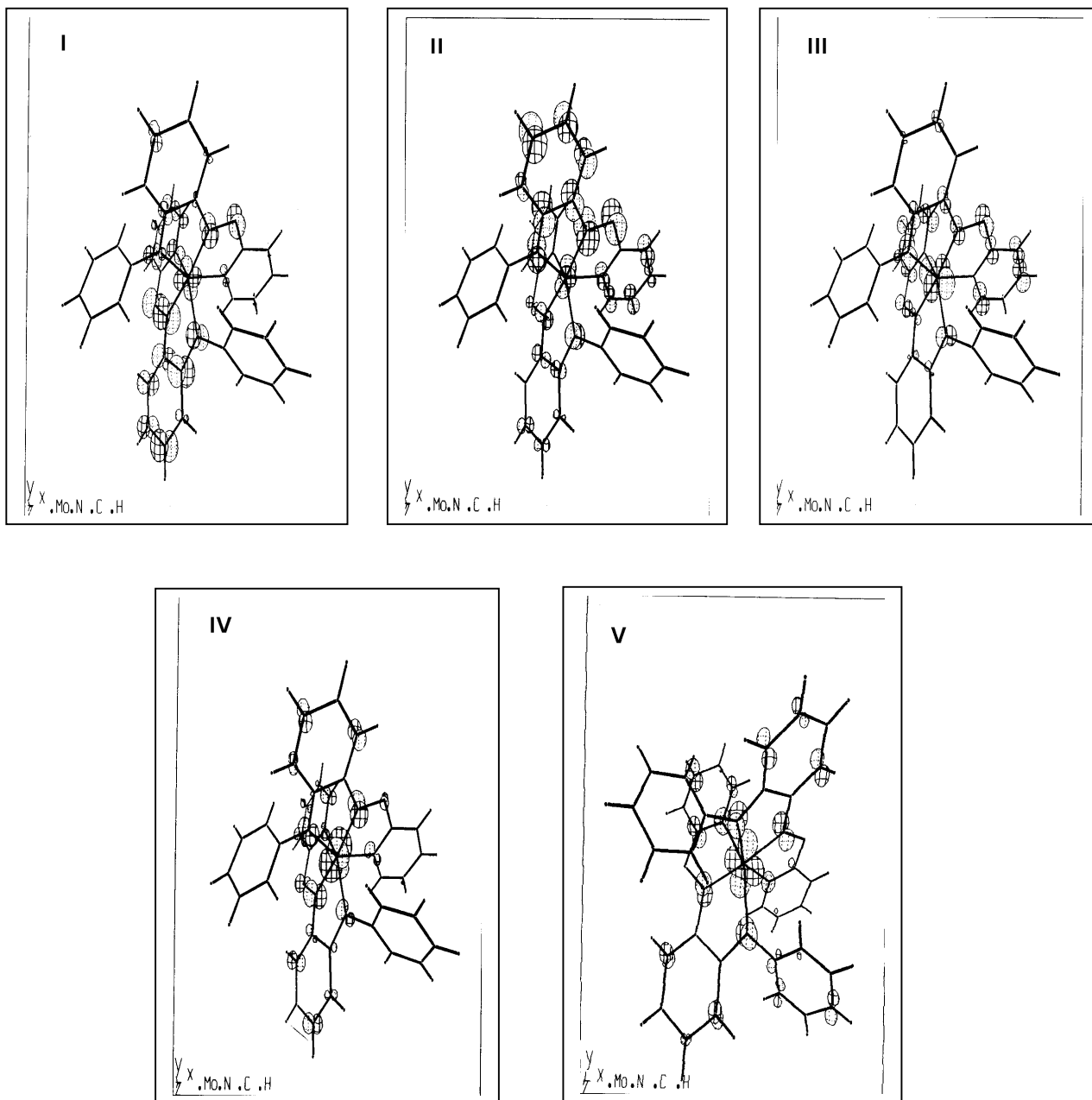


Figure S2

**Figure S3**