

## Supplementary Information

### **Synthesis , structural and theoretical studies of dithiodiglycolamide compounds of palladium (II).**

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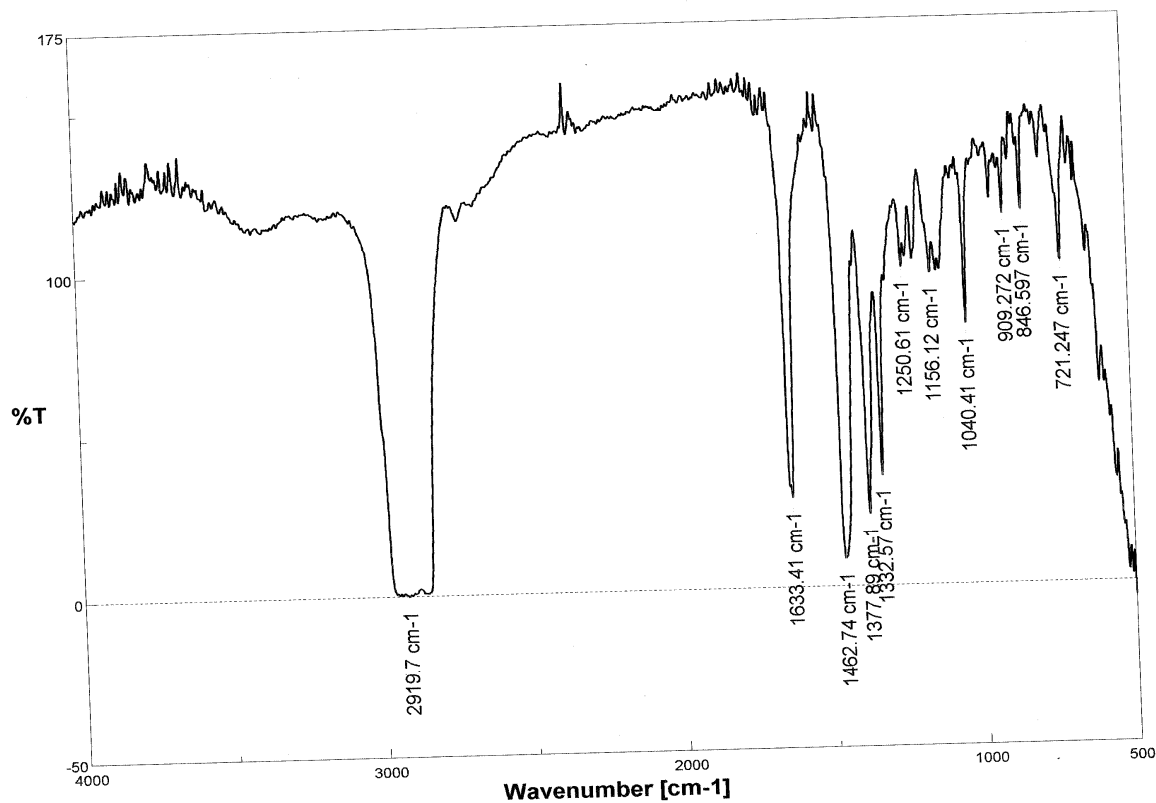


Figure S1: IR spectrum of complex 1

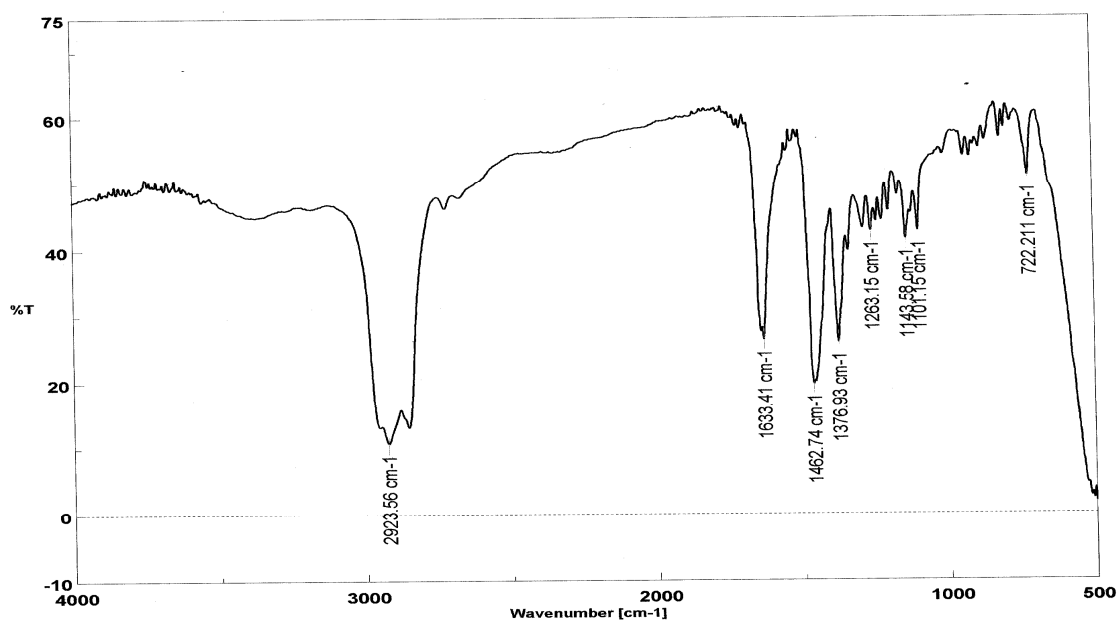


Figure S2: IR spectrum of complex 2

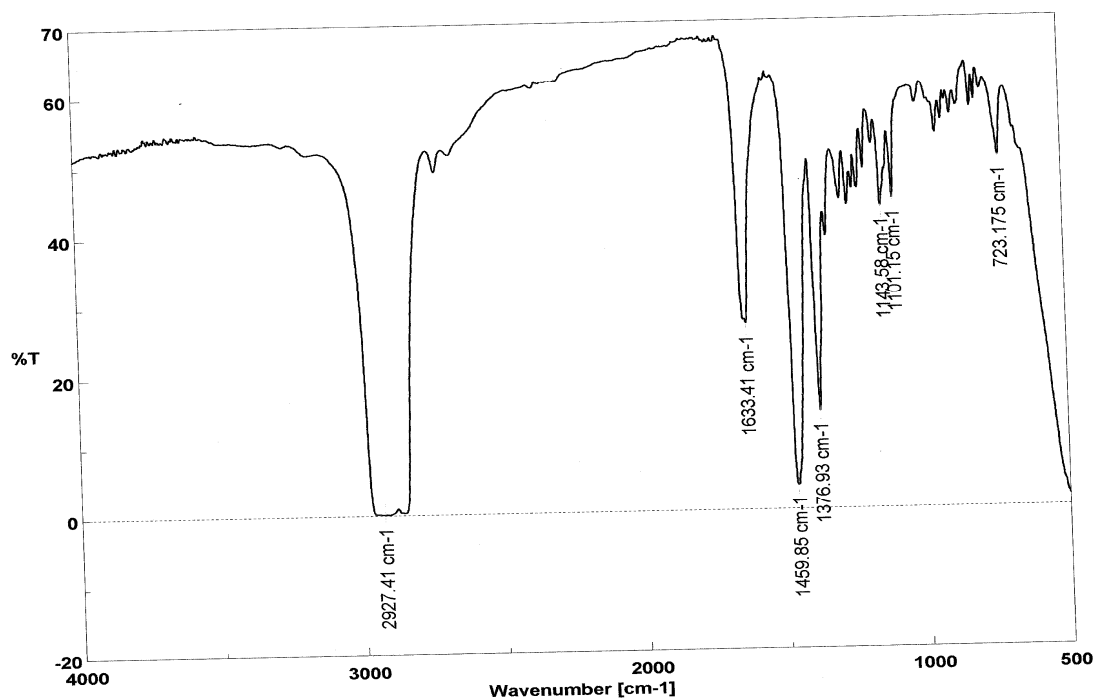


Figure S3: IR spectrum of complex 3

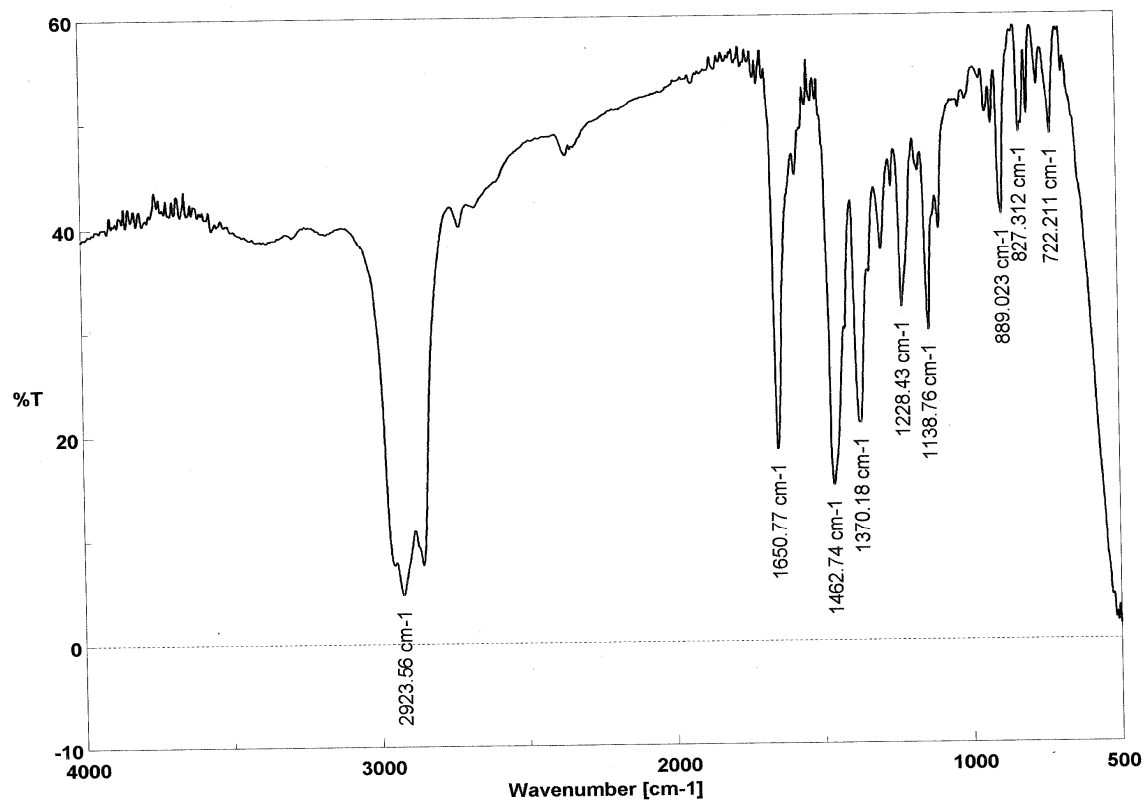


Figure S4: IR spectrum of complex 4

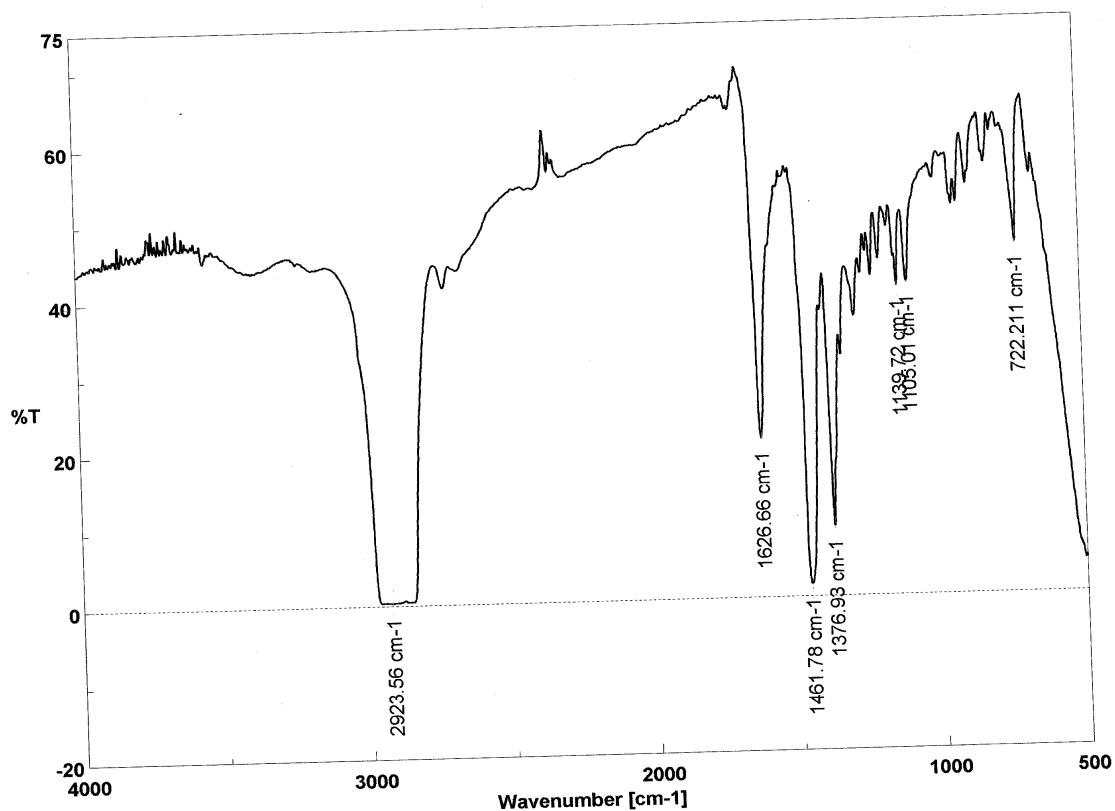


Figure S5: IR spectrum of complex 5

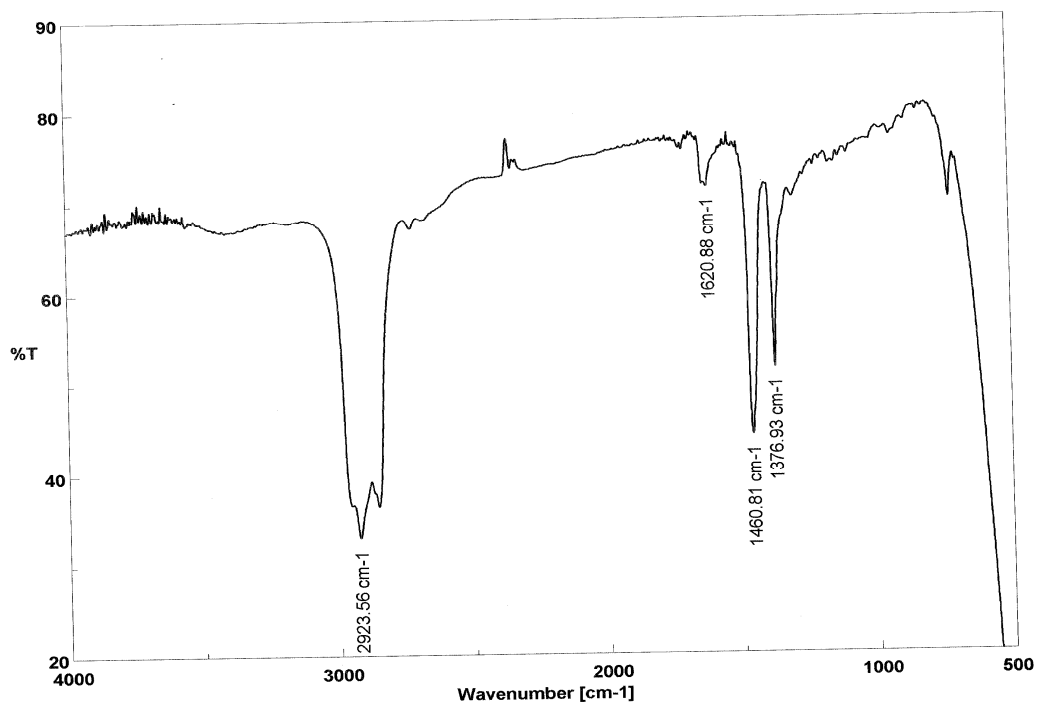


Figure S6: IR spectrum of complex 6

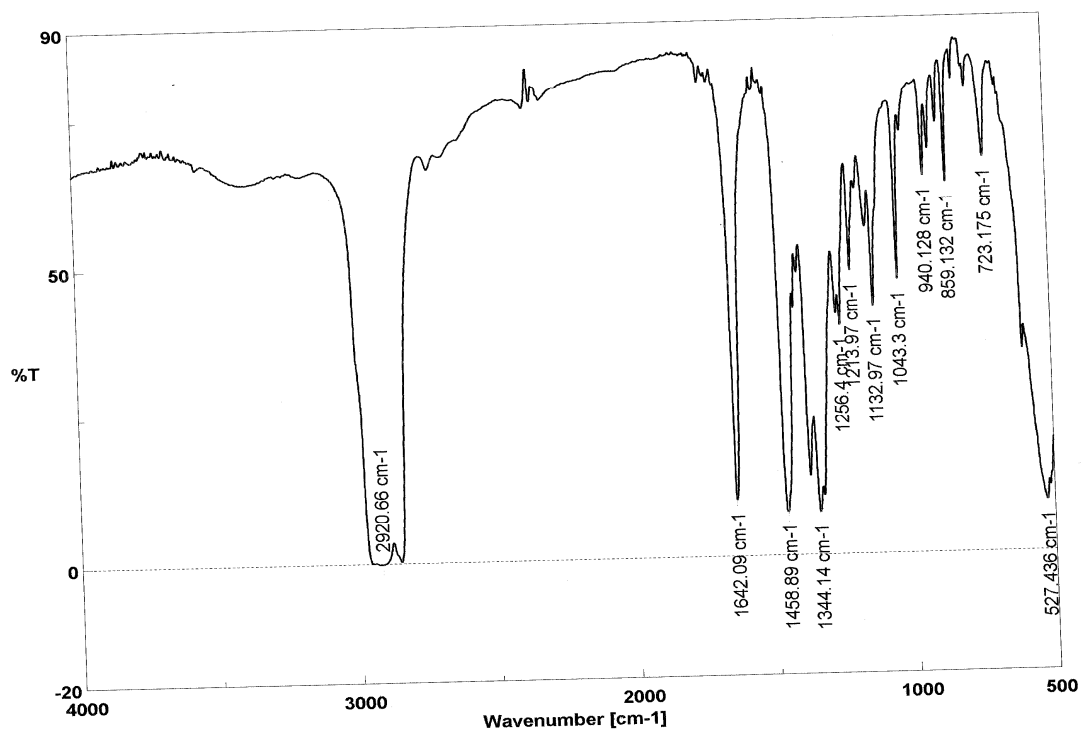


Figure S7: IR spectrum of complex 7

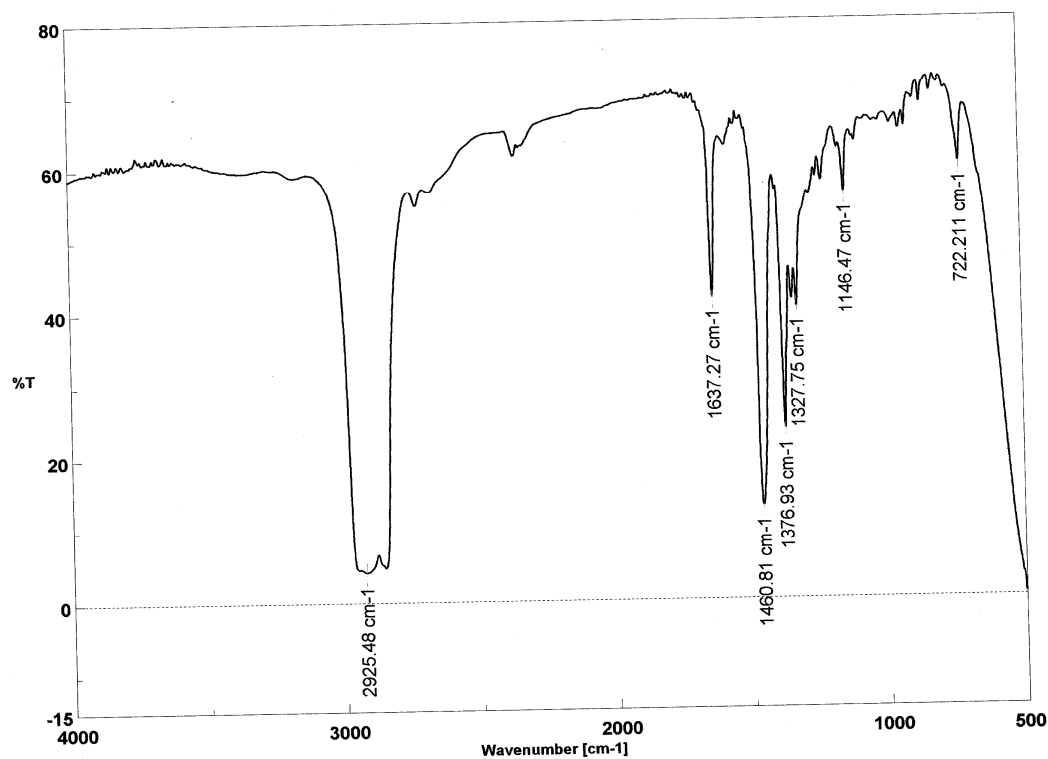


Figure S8: IR spectrum of complex 8

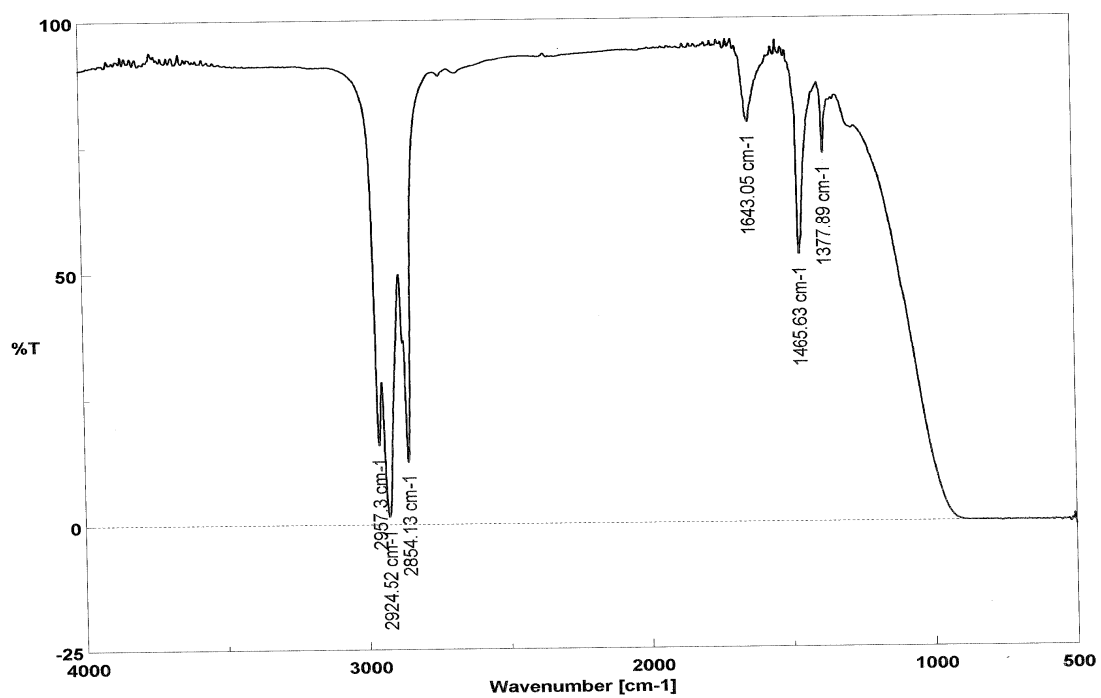


Figure S9: IR spectrum of dodecane layer after palladium extraction with N,N'-dioctyl dithiodiglycolamide ligand from 3M HNO<sub>3</sub>

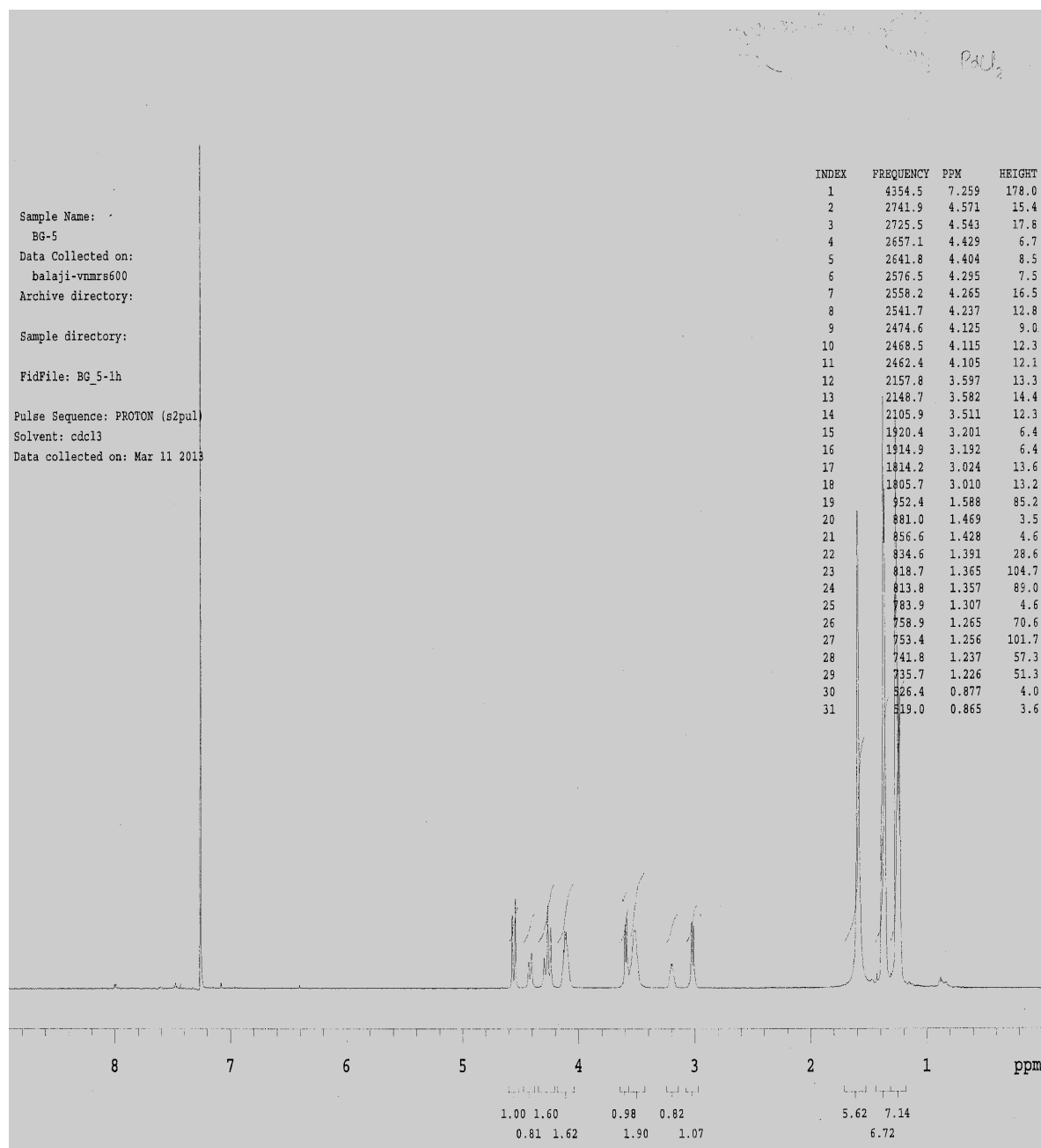


Figure S10: <sup>1</sup>H-NMR spectrum of complex 1

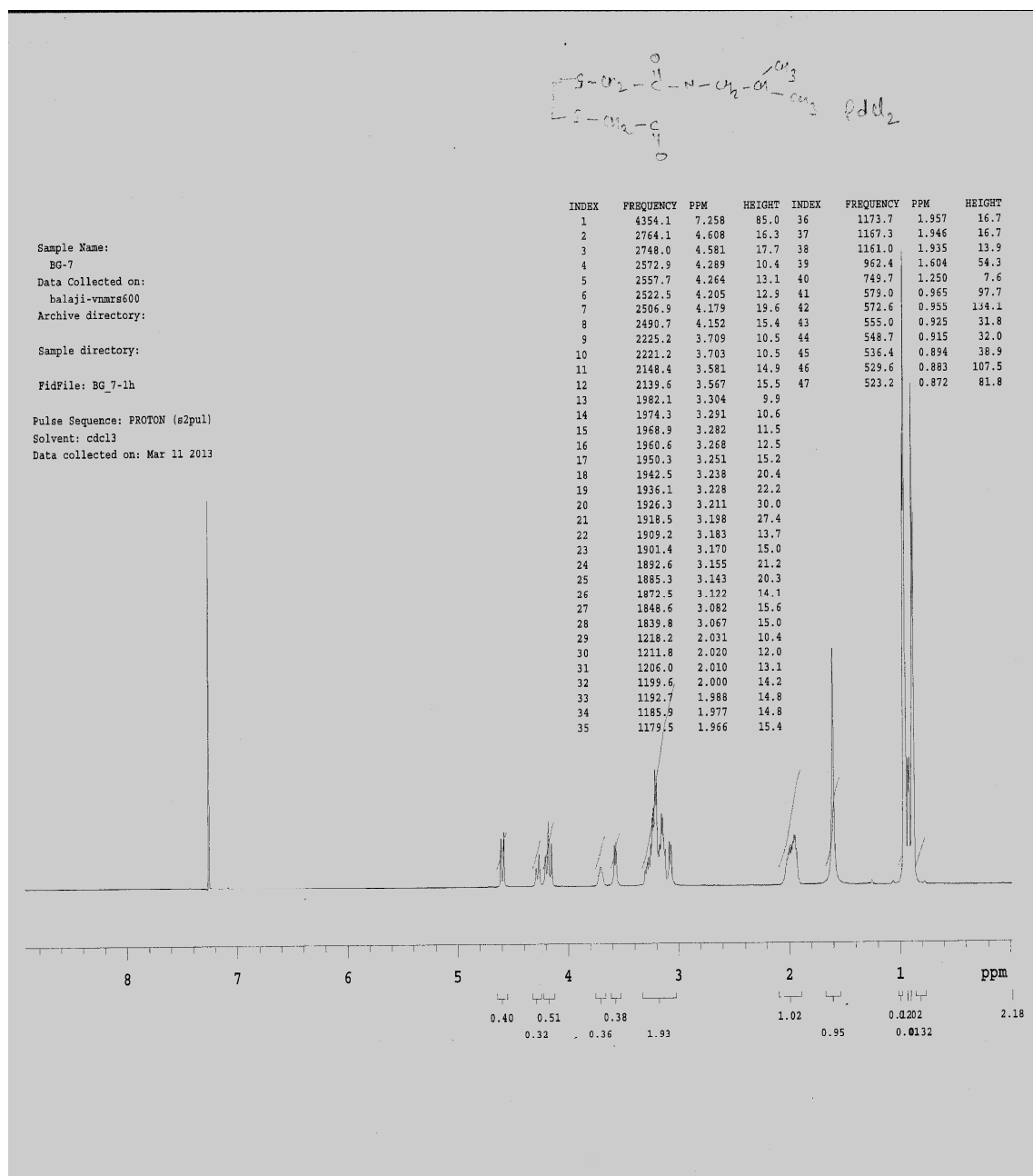


Figure S11:  $^1\text{H}$ -NMR spectrum of complex 2



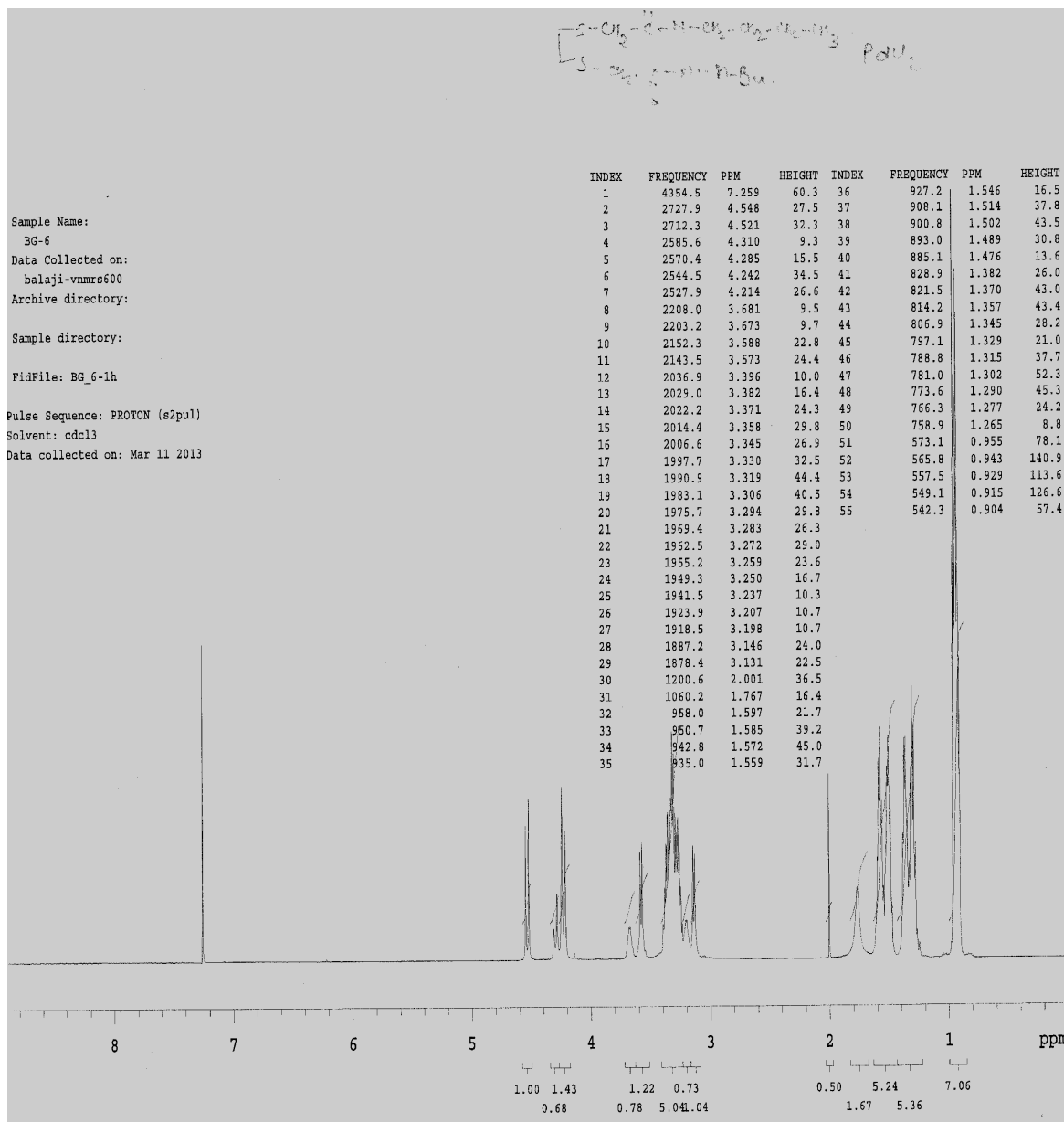


Figure S12:  $^1\text{H}$ -NMR spectrum of complex 3

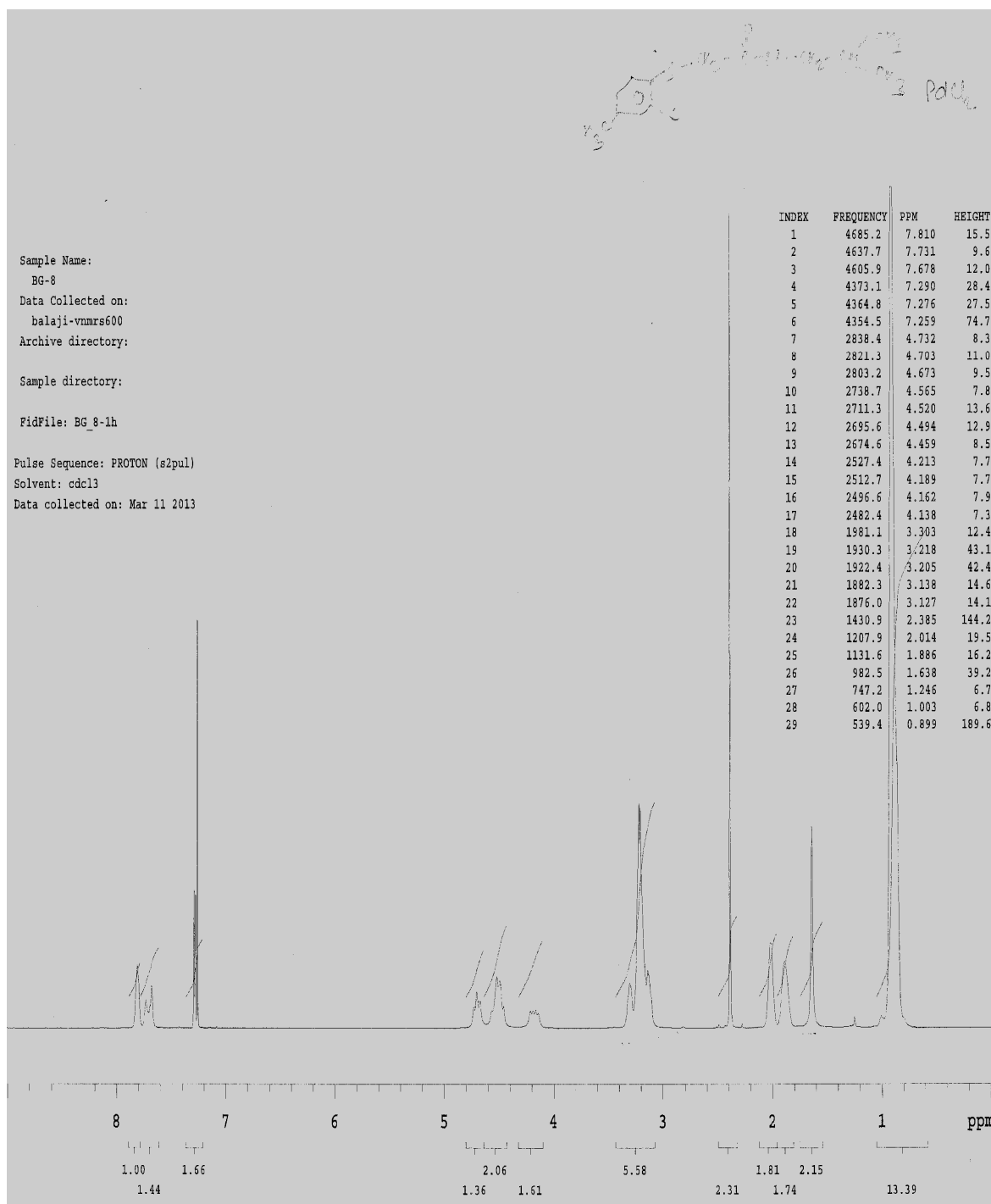


Figure S13: <sup>1</sup>H-NMR spectrum of complex 4

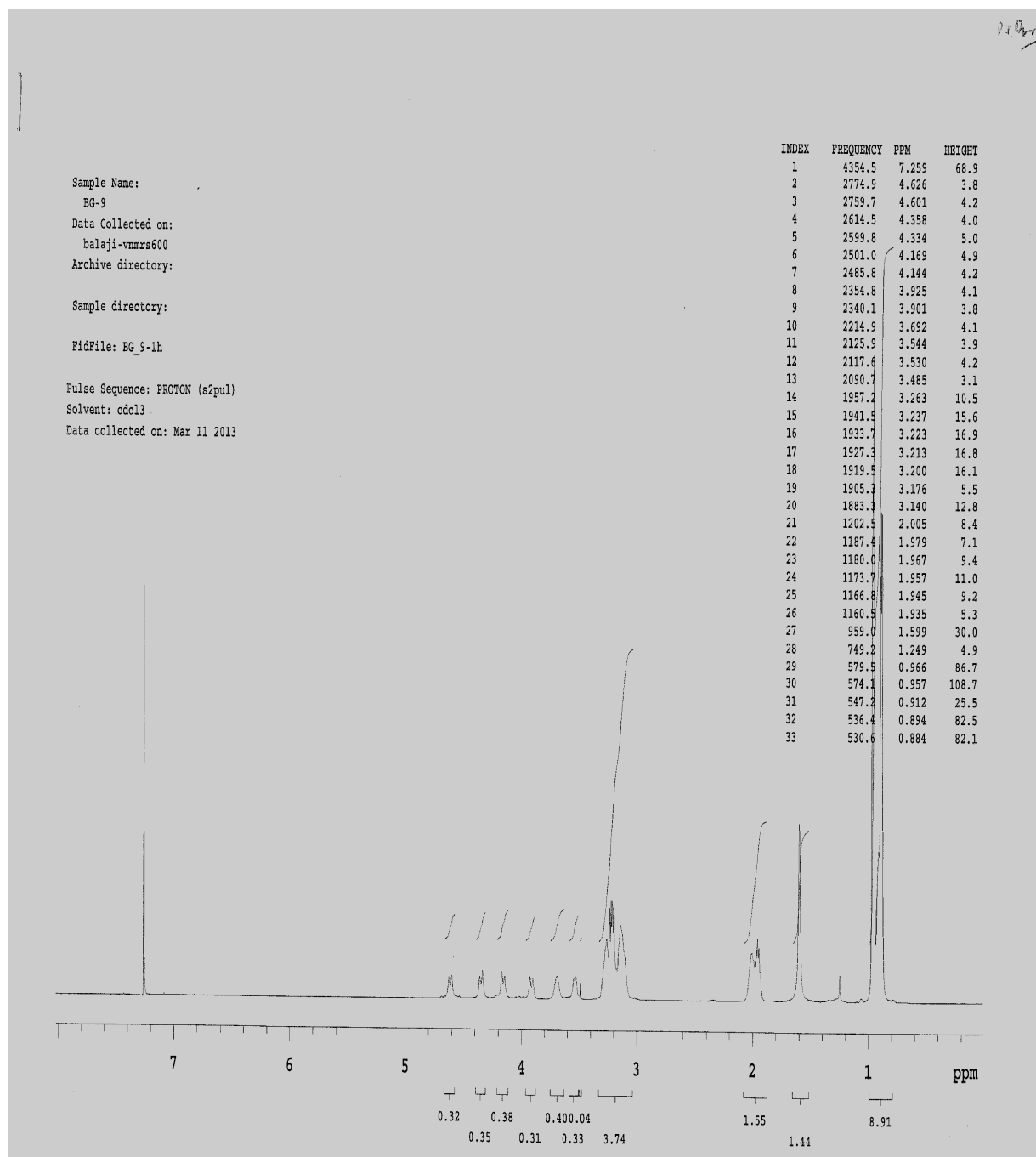


Figure S14:  $^1\text{H}$ -NMR spectrum of complex 5



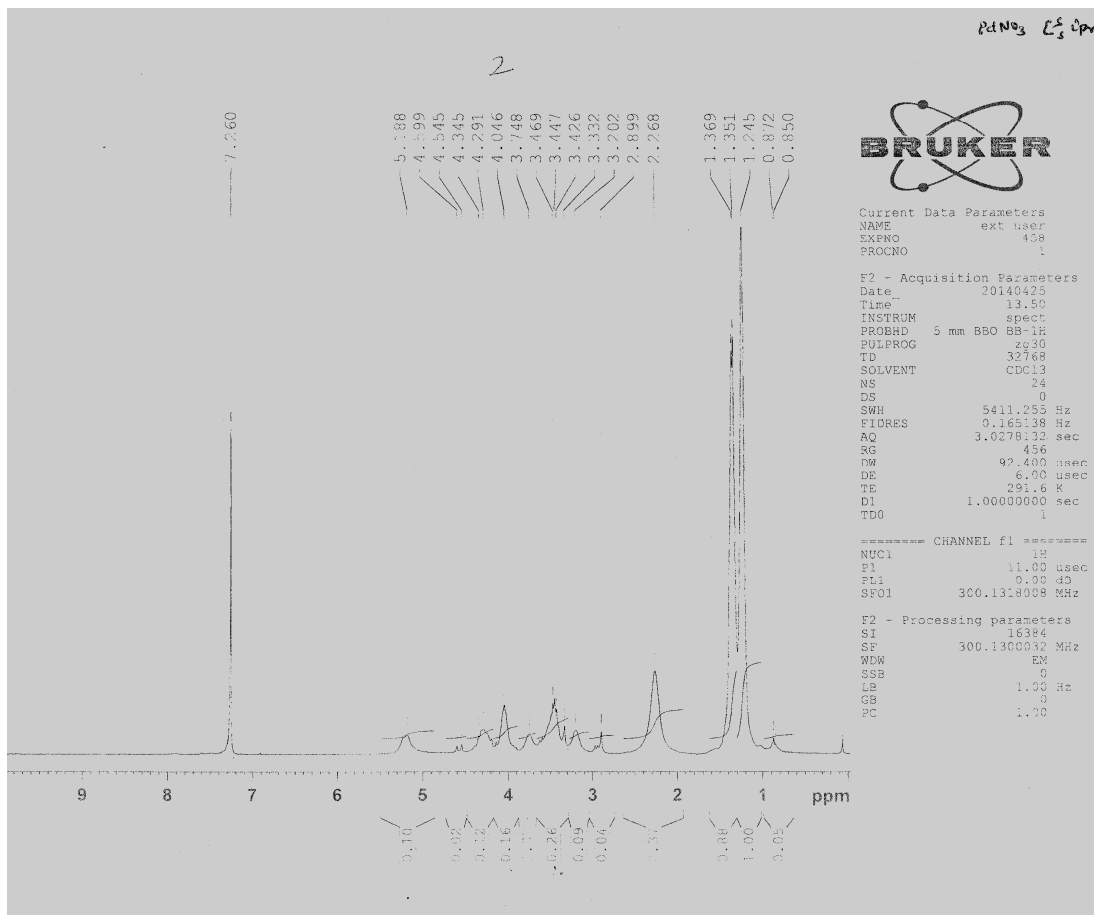


Figure S16: <sup>1</sup>H-NMR spectrum of complex 7

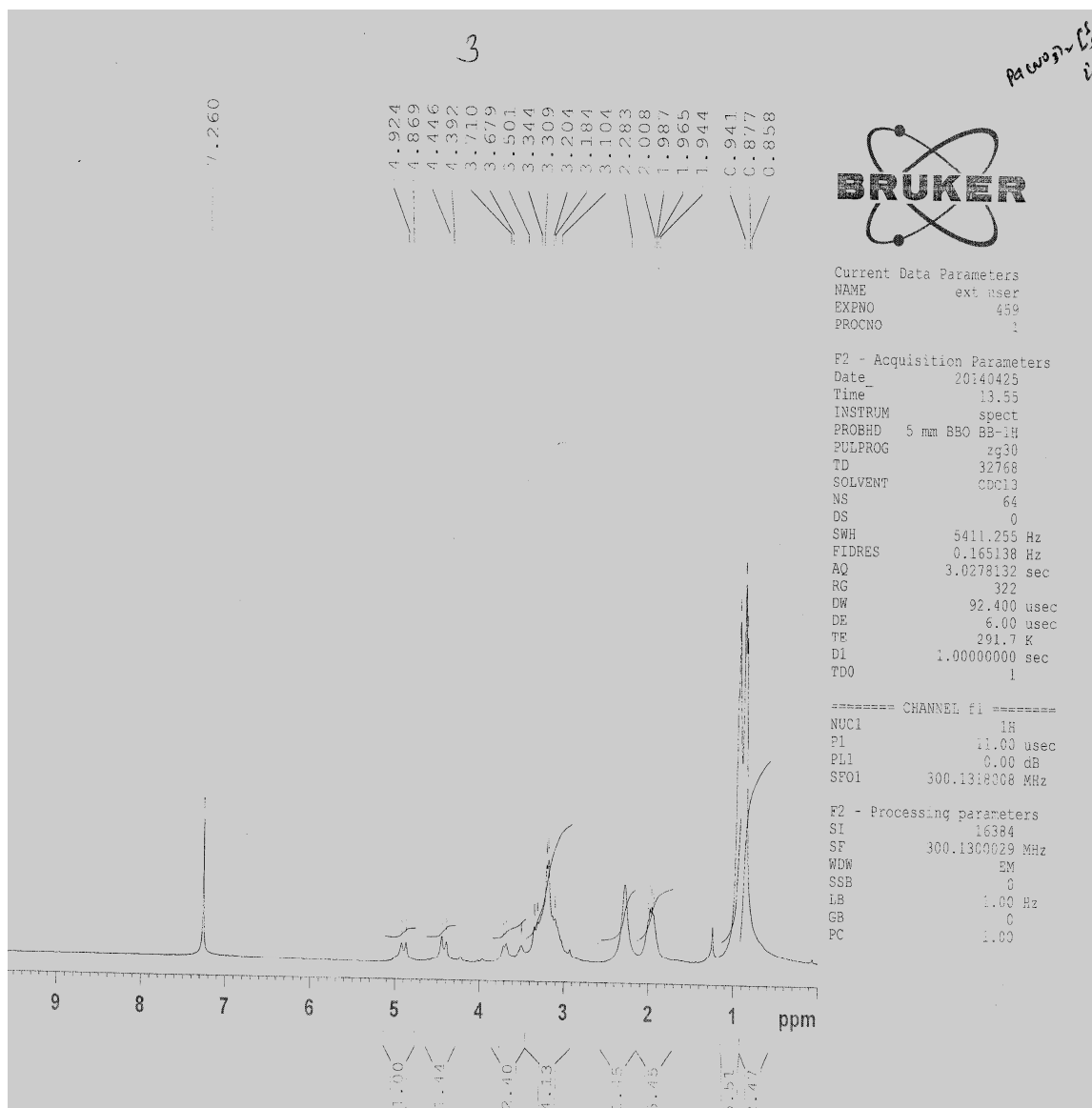


Figure S17:  $^1\text{H}$ -NMR spectrum of complex 8

# Window Display Report

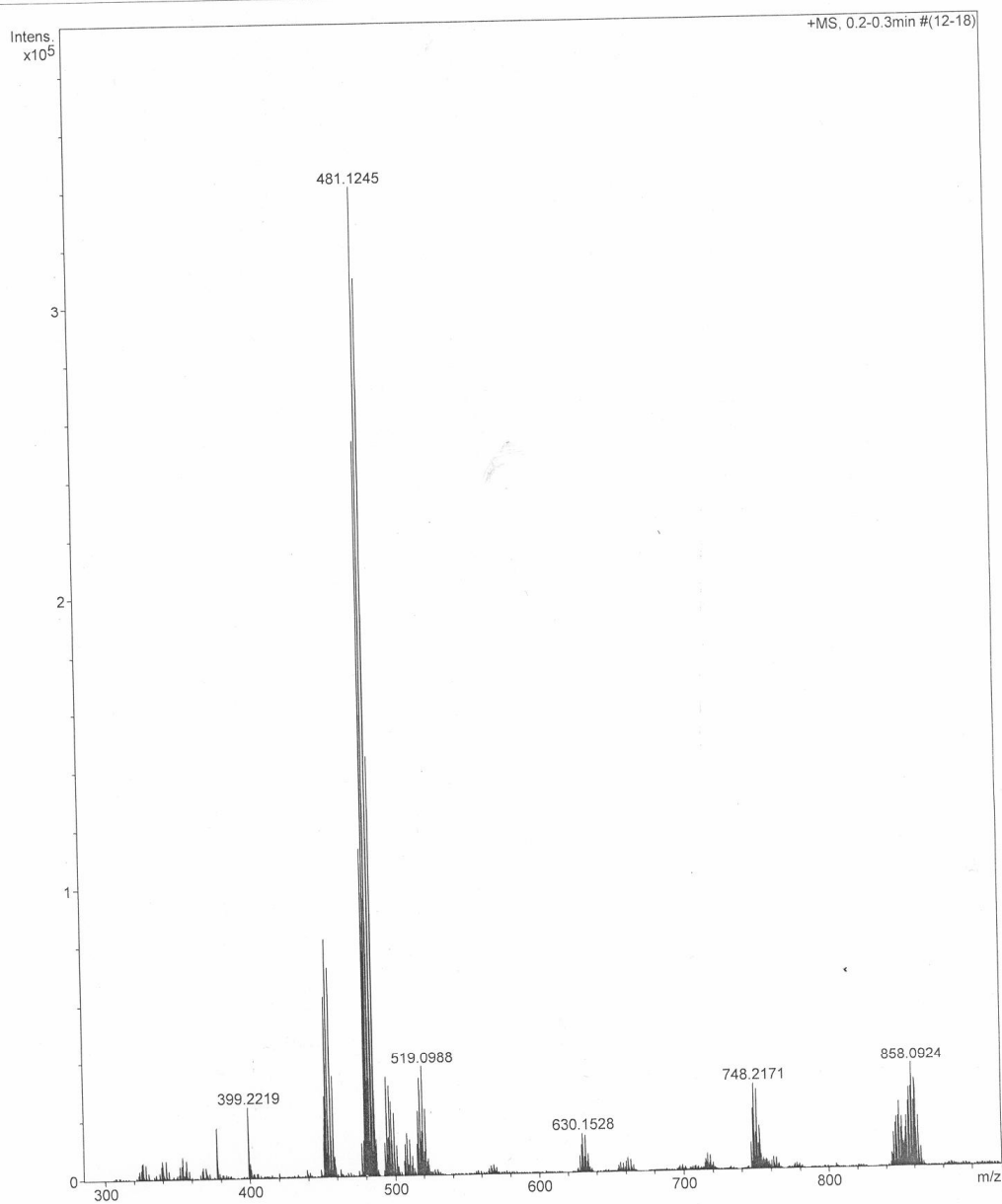
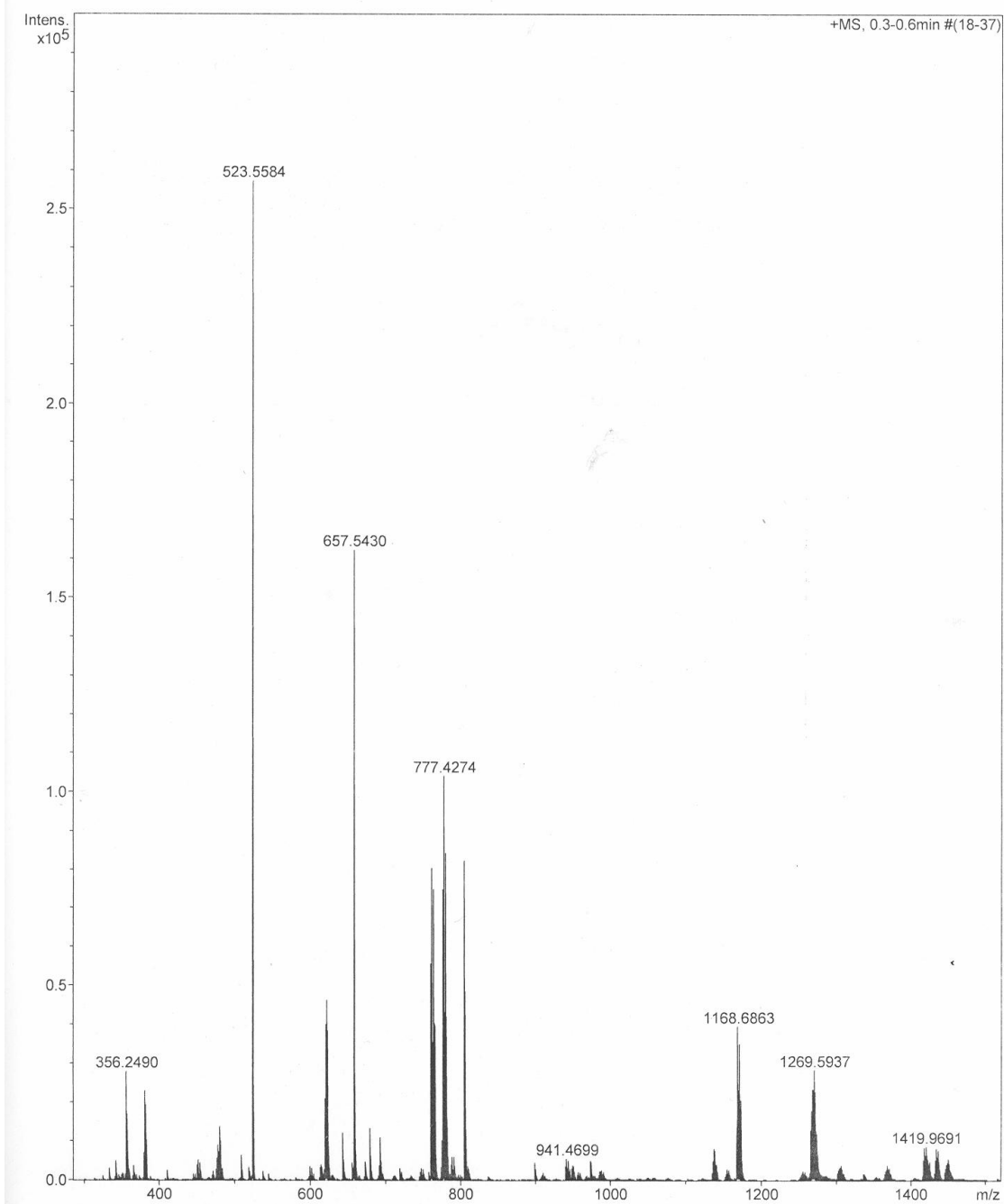


Fig S18 : ESIMS Spectrum of Complex 7

## Window Display Report



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*octyl*

Fig S 19 : The ESI MS spectrum of the dodecane solution after contacting with palladium nitrate solution



