

Supporting Information

Anion Complexation of Pentafluorophenyl-Substituted Tripodal Urea Receptor in solution and the Solid State: Selectivity toward Phosphate.

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Figure 1S: $^1\text{H-NMR}$ spectra of L^2 in DMSO-d_6 at 25°C

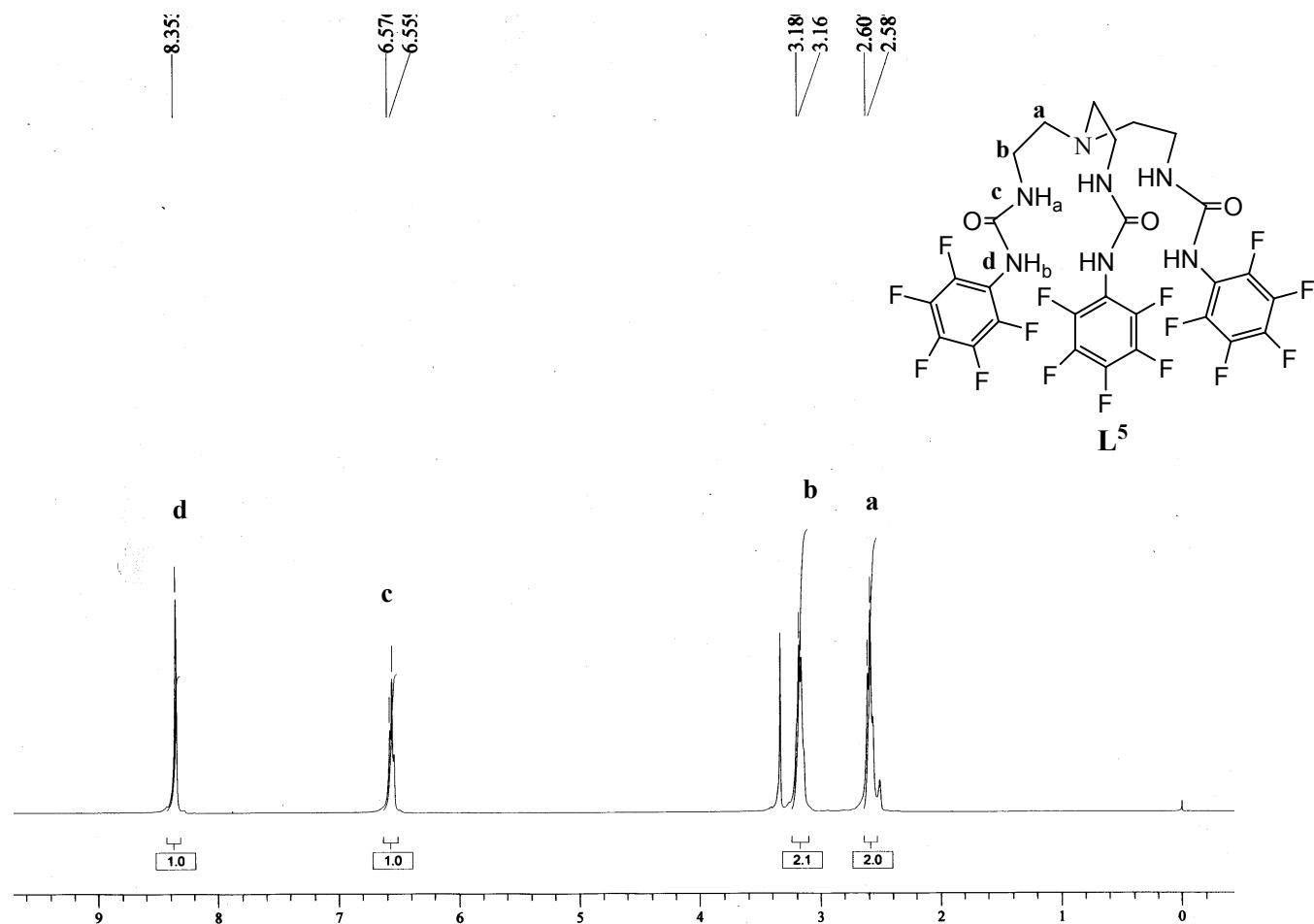


Figure 2S: ^{13}C -NMR spectra of L^1 in DMSO-d_6 at 25°C

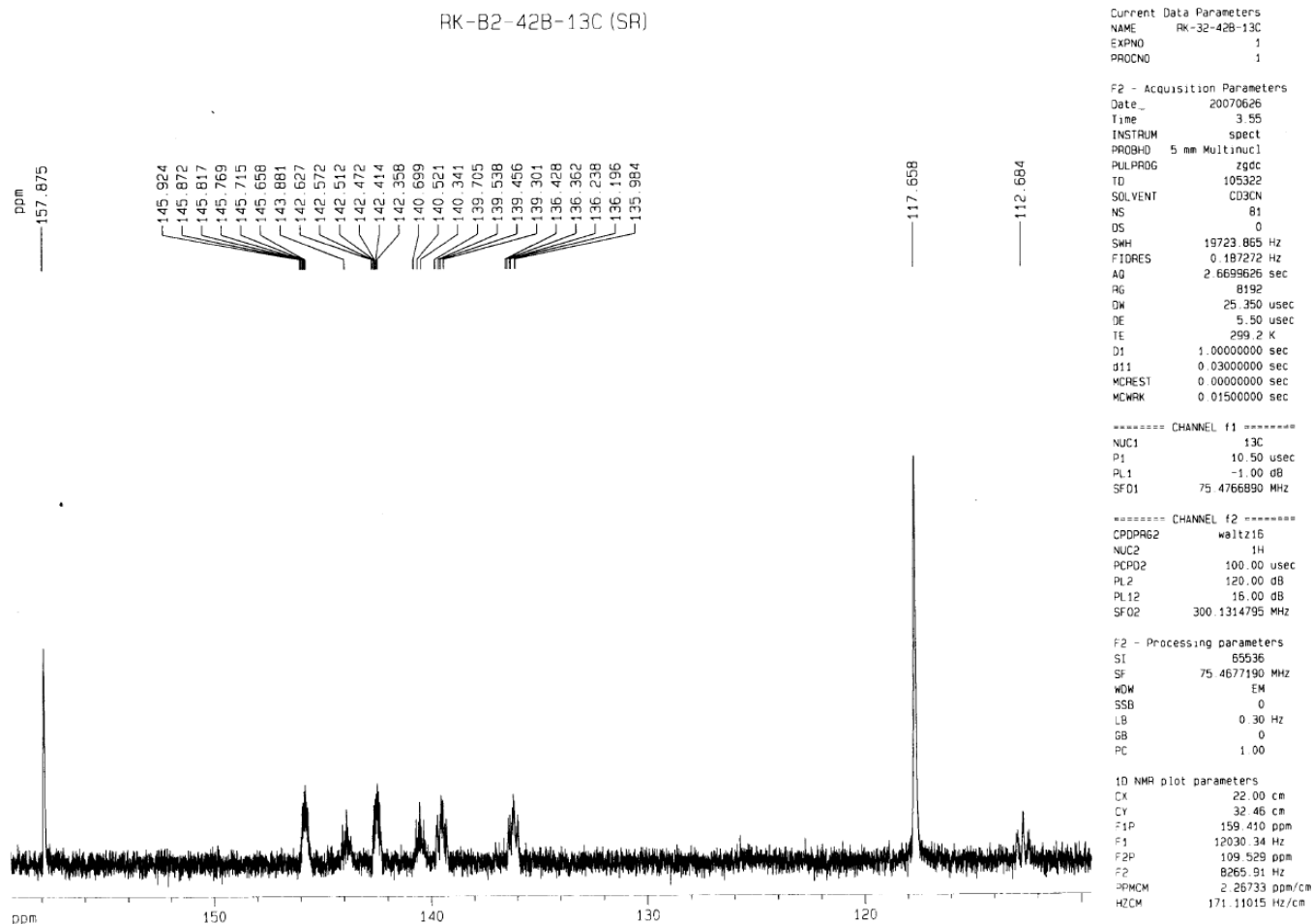


Figure 3S HRMS spectrum of **L¹**

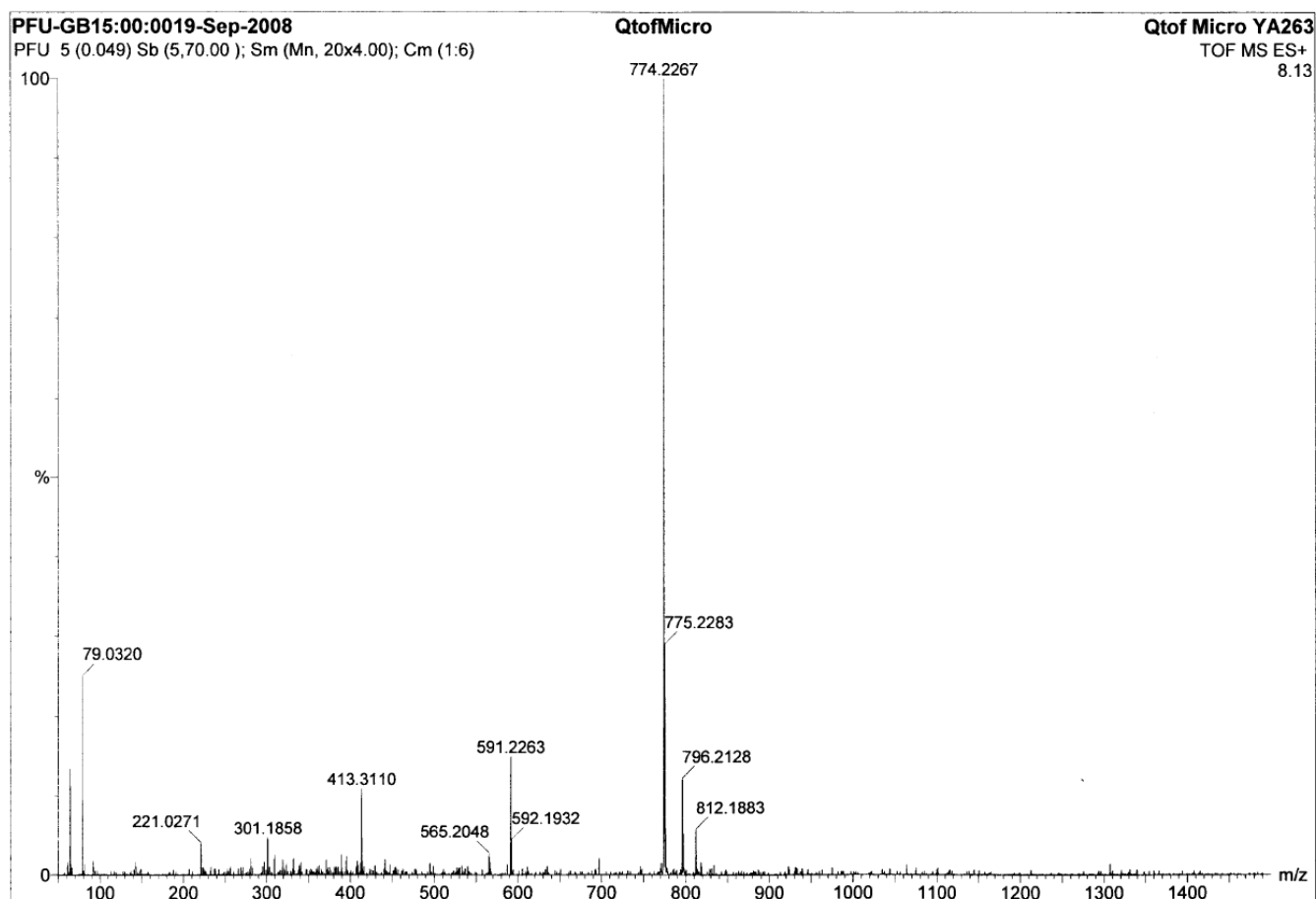


Figure 4S: $^1\text{H-NMR}$ spectra of complex **1** in DMSO-d_6 at 25°C

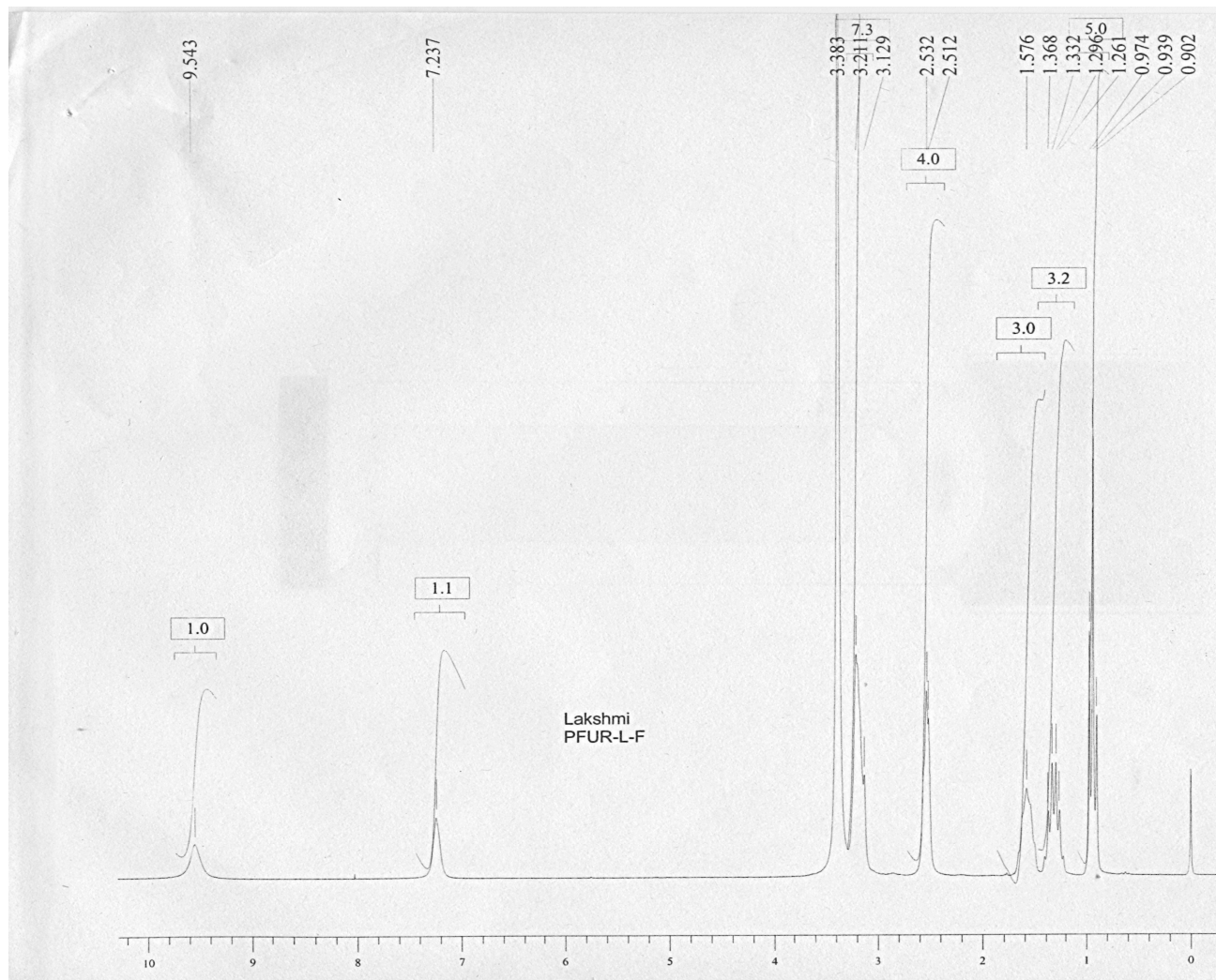


Figure 5S: ^{13}C -NMR spectra of complex **1** in DMSO- d_6 at 25°C

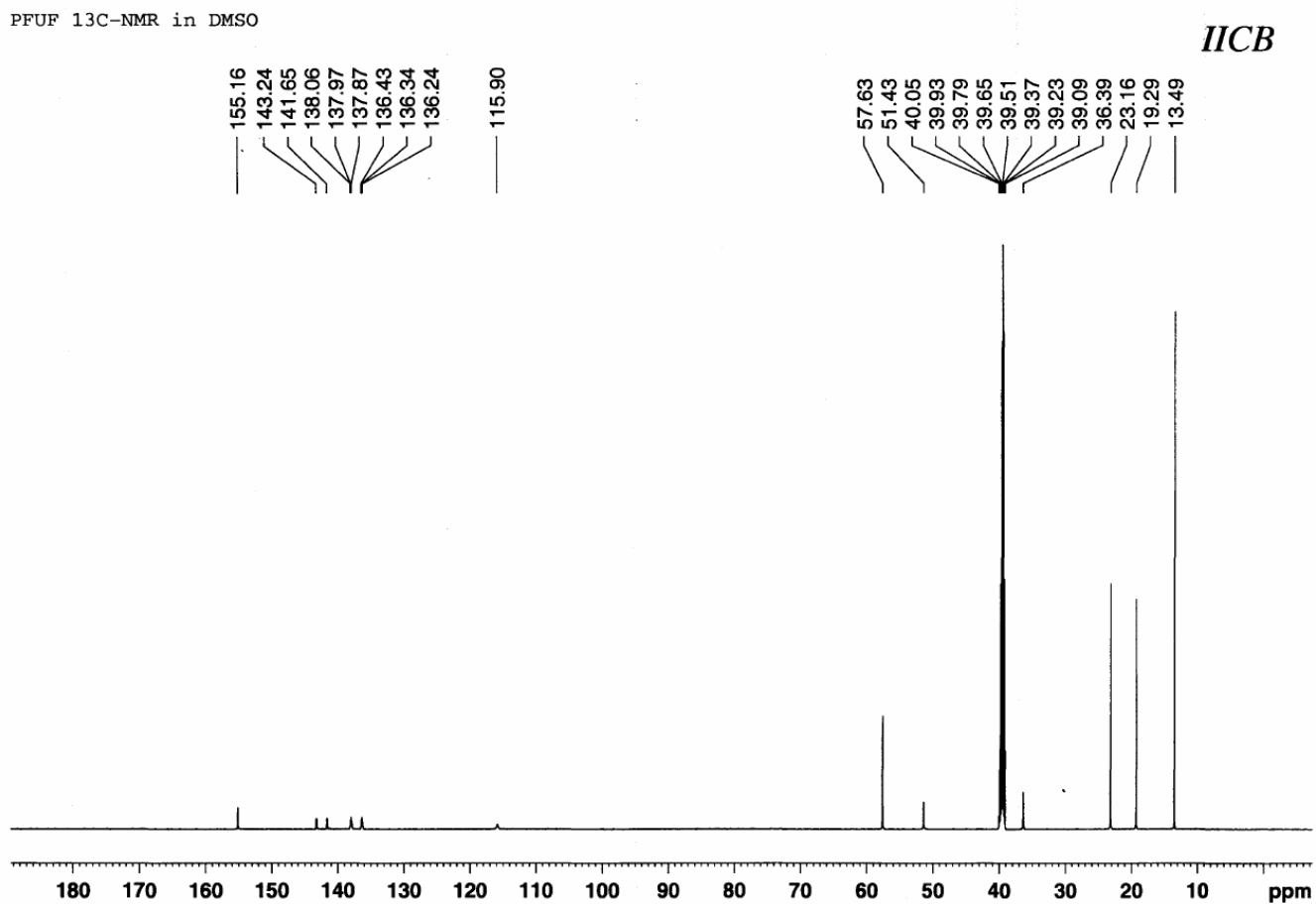


Figure 6S HRMS spectrum of complex **1**

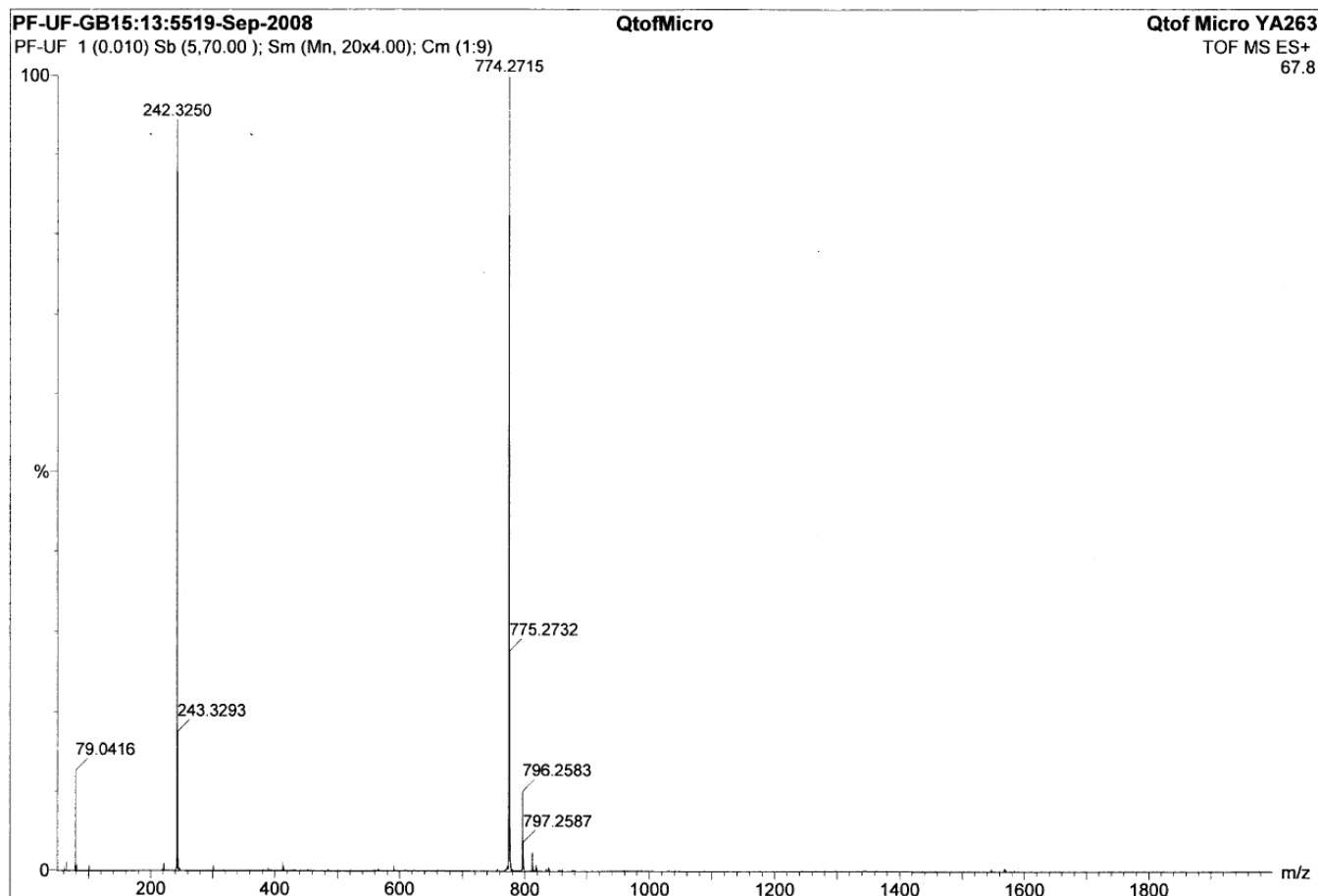


Figure 7S: $^1\text{H-NMR}$ spectra of complex **2** in DMSO-d_6 at 25°C

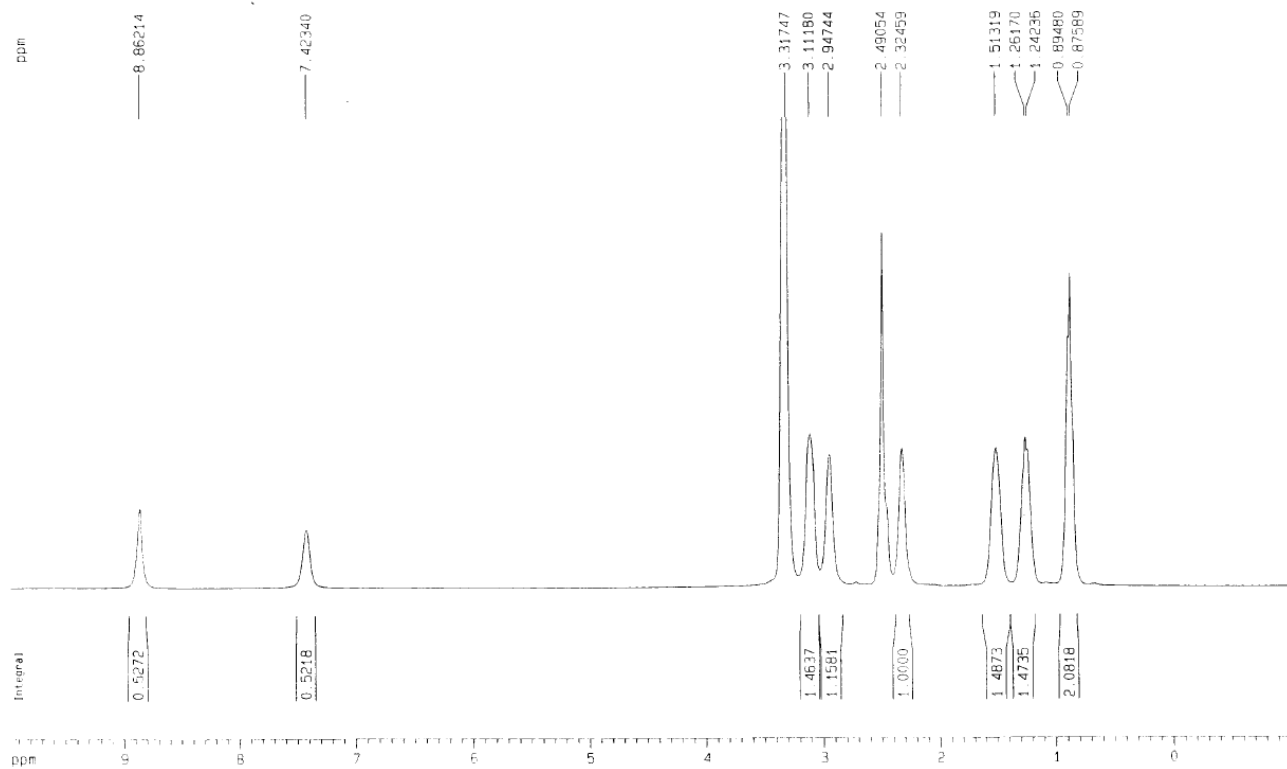


Figure 8S: ^{13}C -NMR spectra of complex **2** in DMSO-d_6 at 25°C

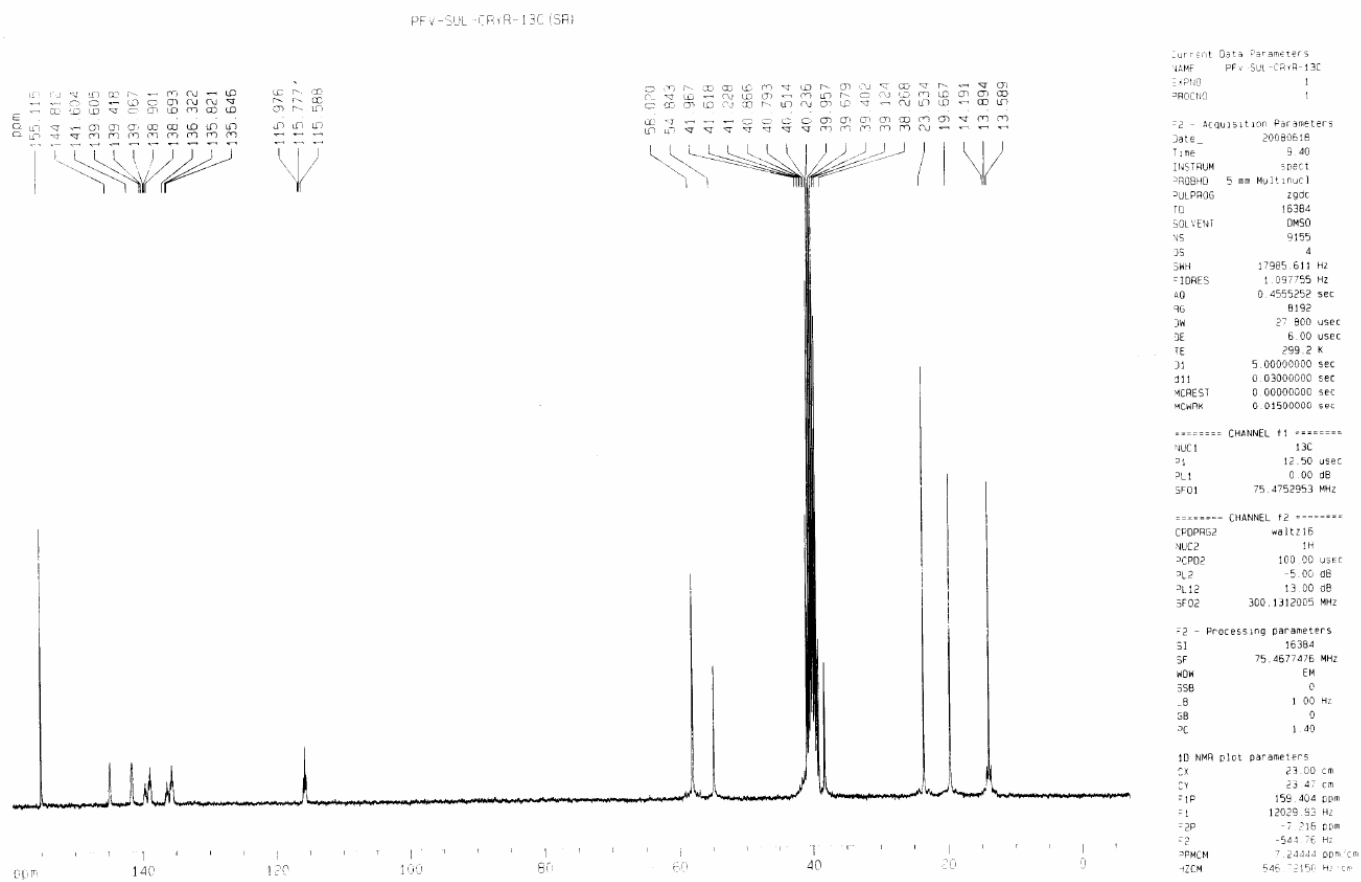


Figure 9S HRMS spectrum of complex **2**

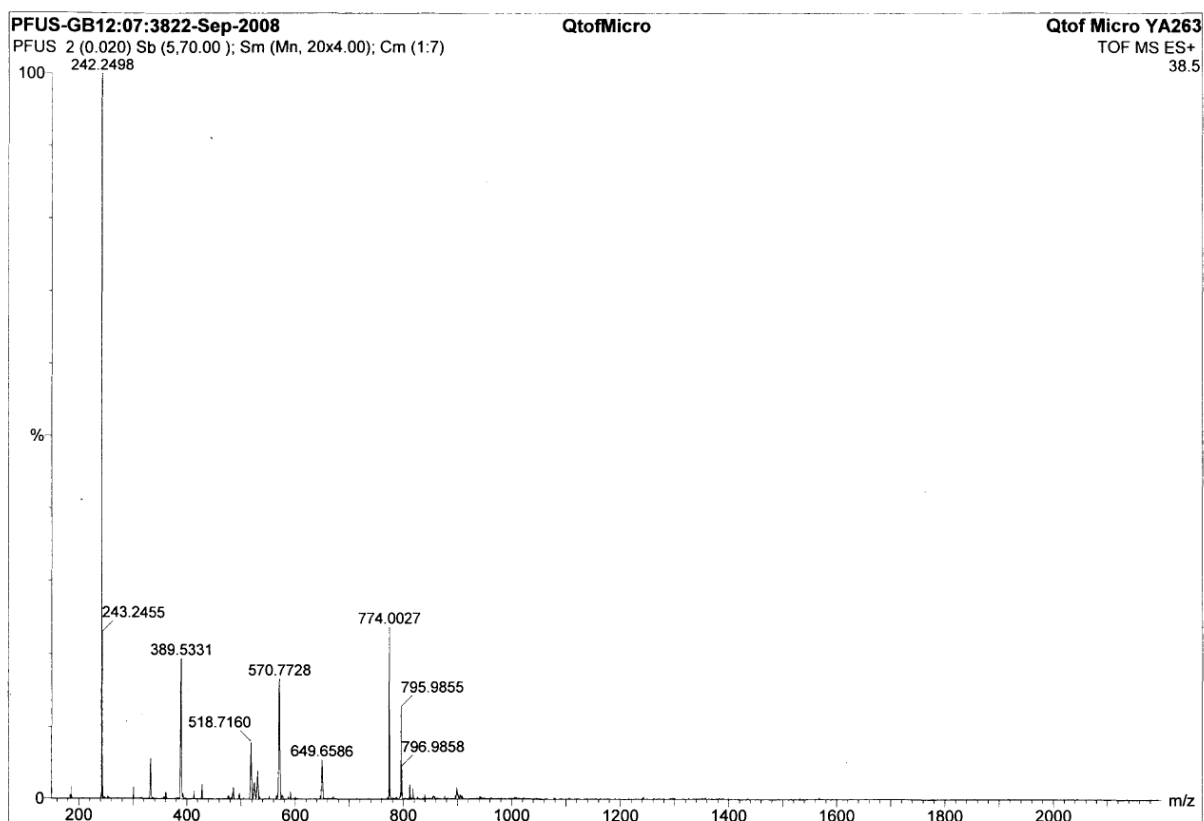


Figure 10S: ^{19}F -NMR spectra of $n\text{-Bu}_4\text{N}^+\text{F}^-$ in DMSO-d_6 at 25°C .

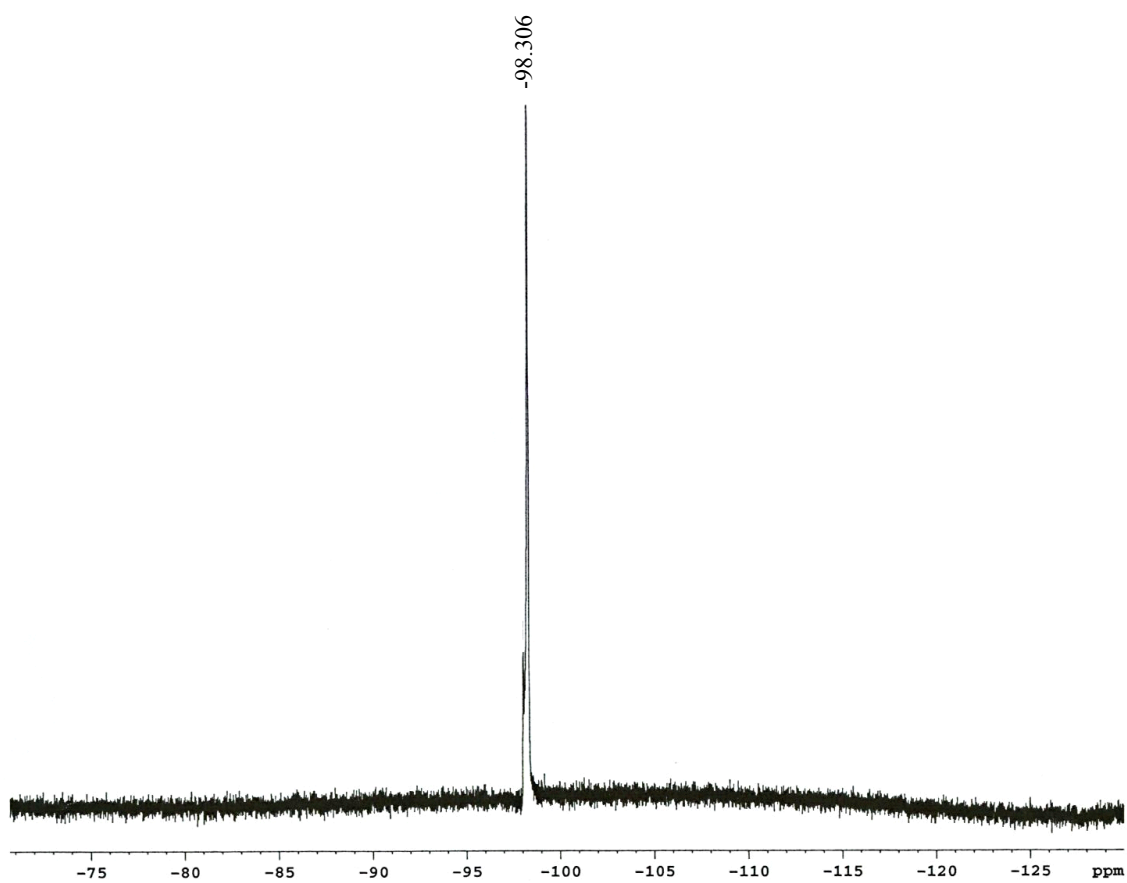


Figure 11S: ^{19}F -NMR spectra of L^1 in DMSO-d_6 at 25°C .

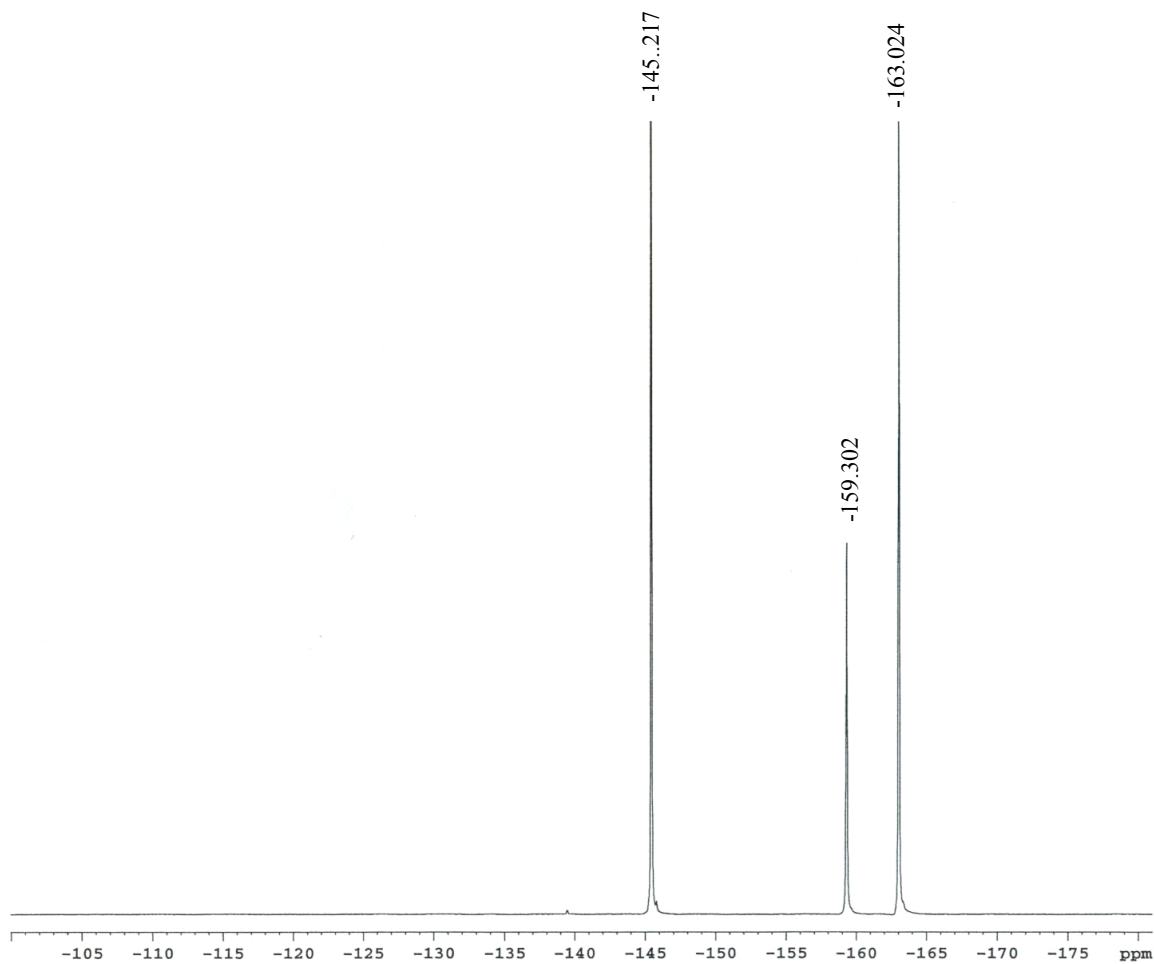


Figure 12S: ^{19}F -NMR spectra of $n\text{-Bu}_4\text{N}^+\text{F}^-$ with L^1 in DMSO-d_6 at 25°C

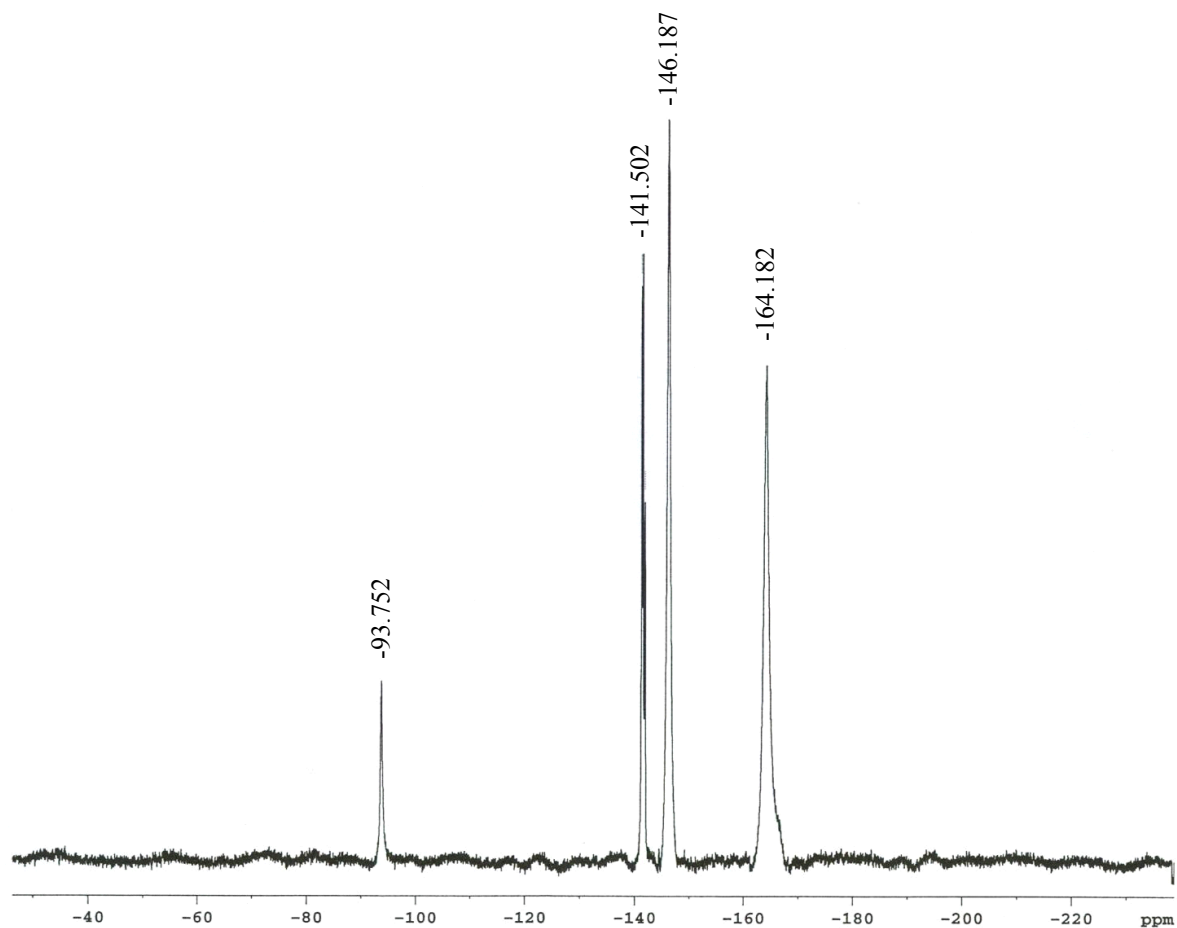


Figure 13S: Change in Chemical shifts for L^1 with $(n\text{-Bu}_4\text{N}^+)\text{HSO}_4^-$ in DMSO-d_6 at 25°C .

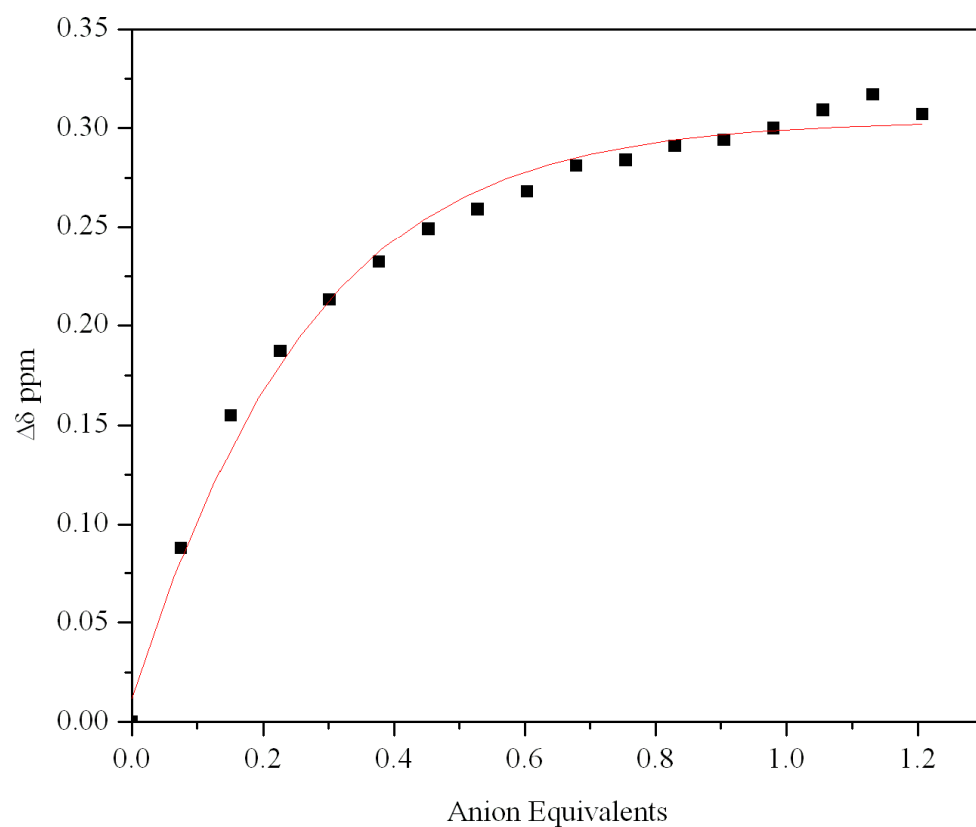


Figure 14S: Job's plot for L^1 with $(n\text{-Bu}_4\text{N}^+)_2\text{SO}_4^{2-}$ in DMSO-d_6 at 25°C .

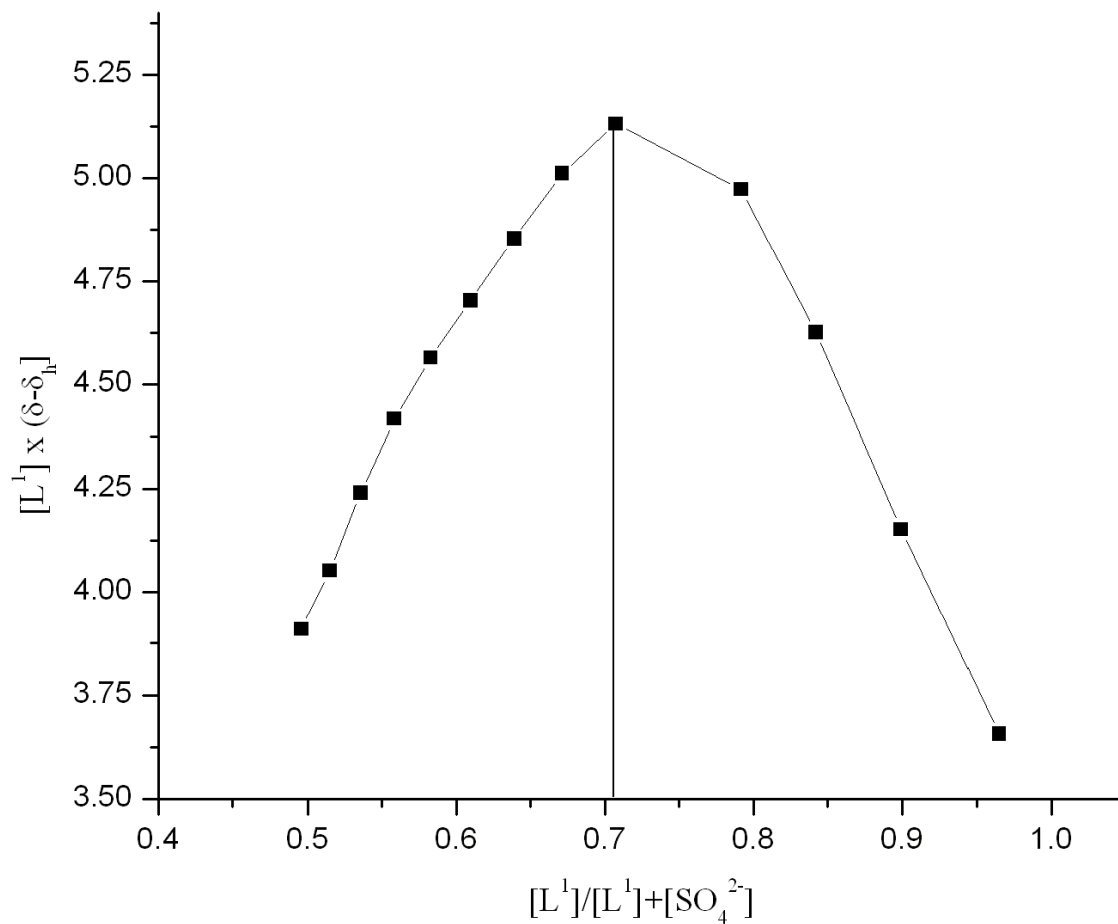


Figure 15S: Job's plot for L^1 with $(n\text{-Bu}_4\text{N}^+)\text{HSO}_4^-$ in DMSO-d_6 at 25°C .

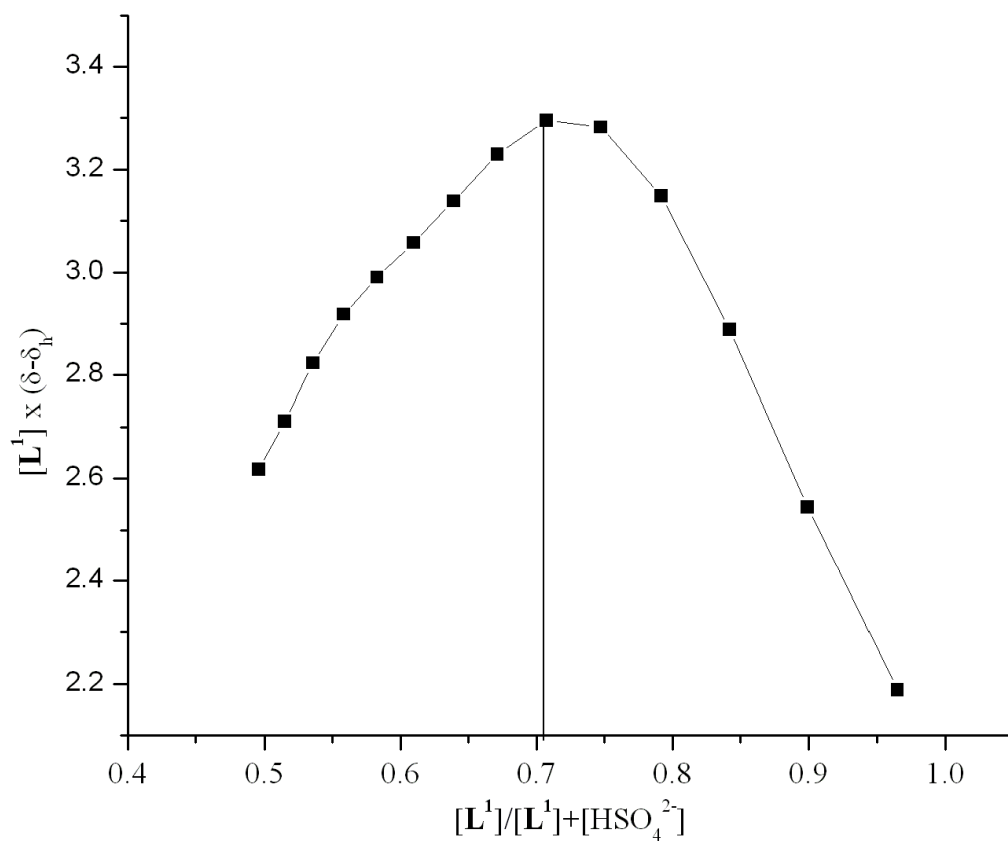


Figure 16S: The scatterplot of N-H...O angle vs. H...O distance of the hydrogen bonds in H_2PO_4^- complex.

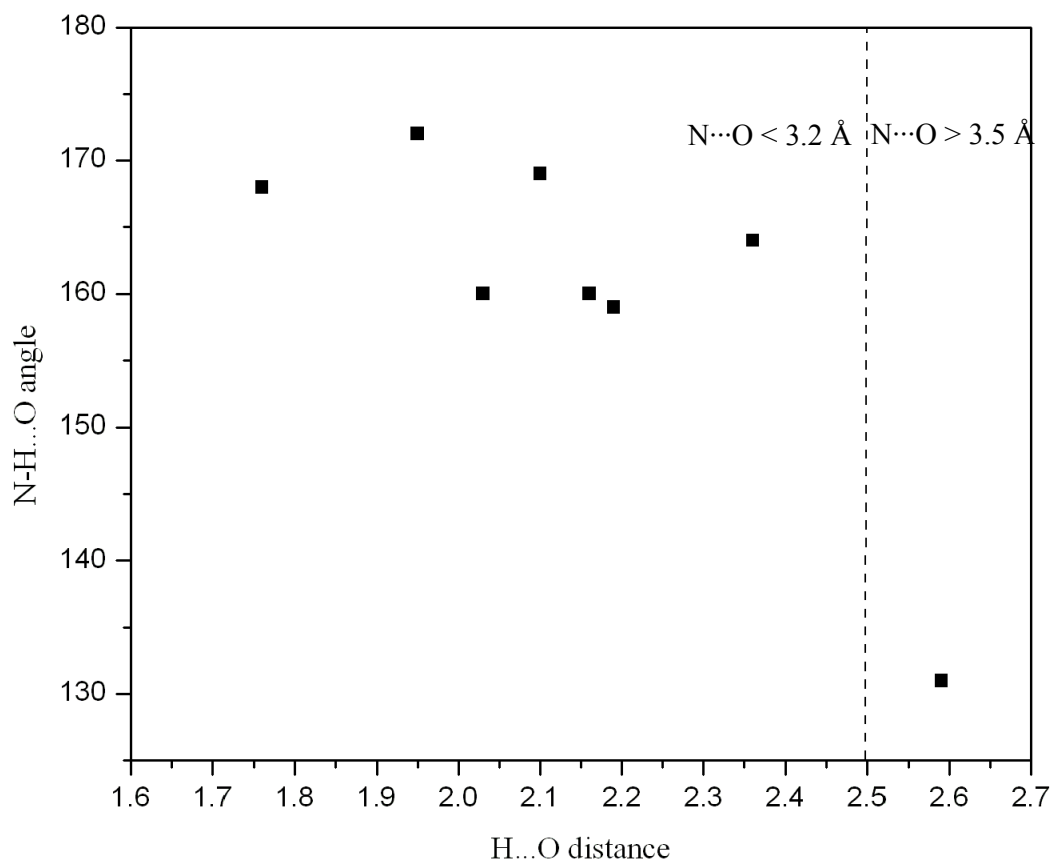


Figure 17S: ORTEP diagram of Complex 1 with 50% probability factor for the thermal ellipsoids.

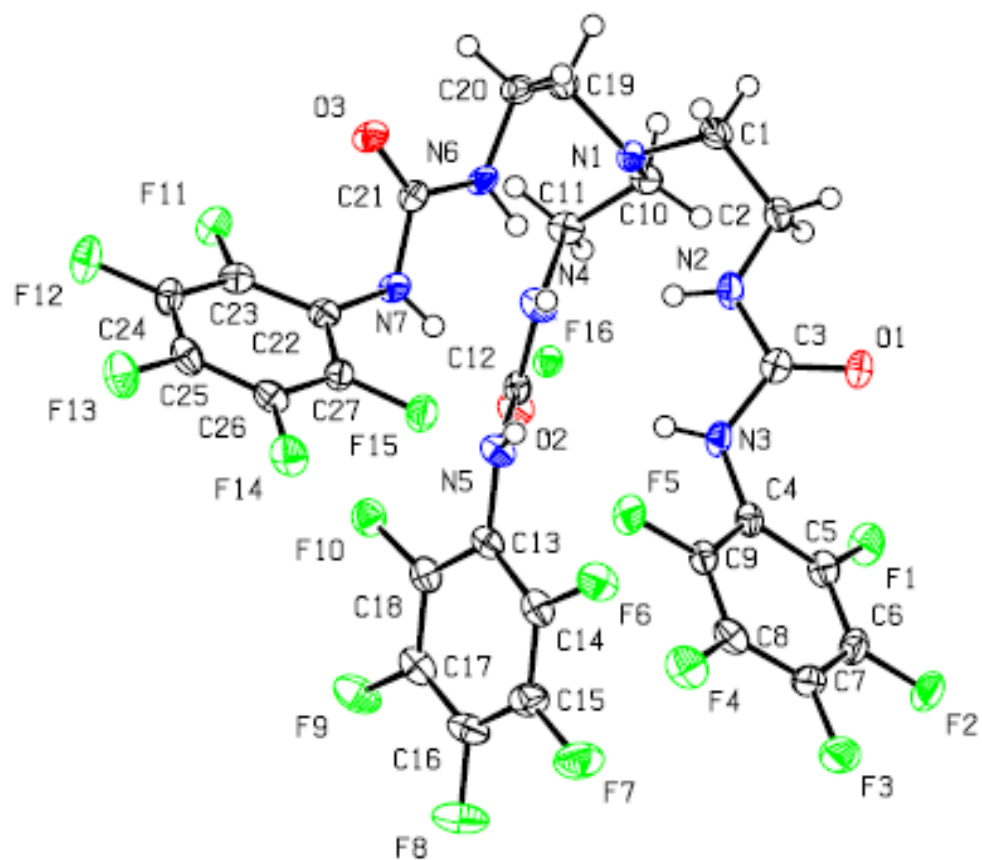


Figure 18S: The scatter plot of N-H...F angle vs. H...F distance of the hydrogen bonds in complex **1**.

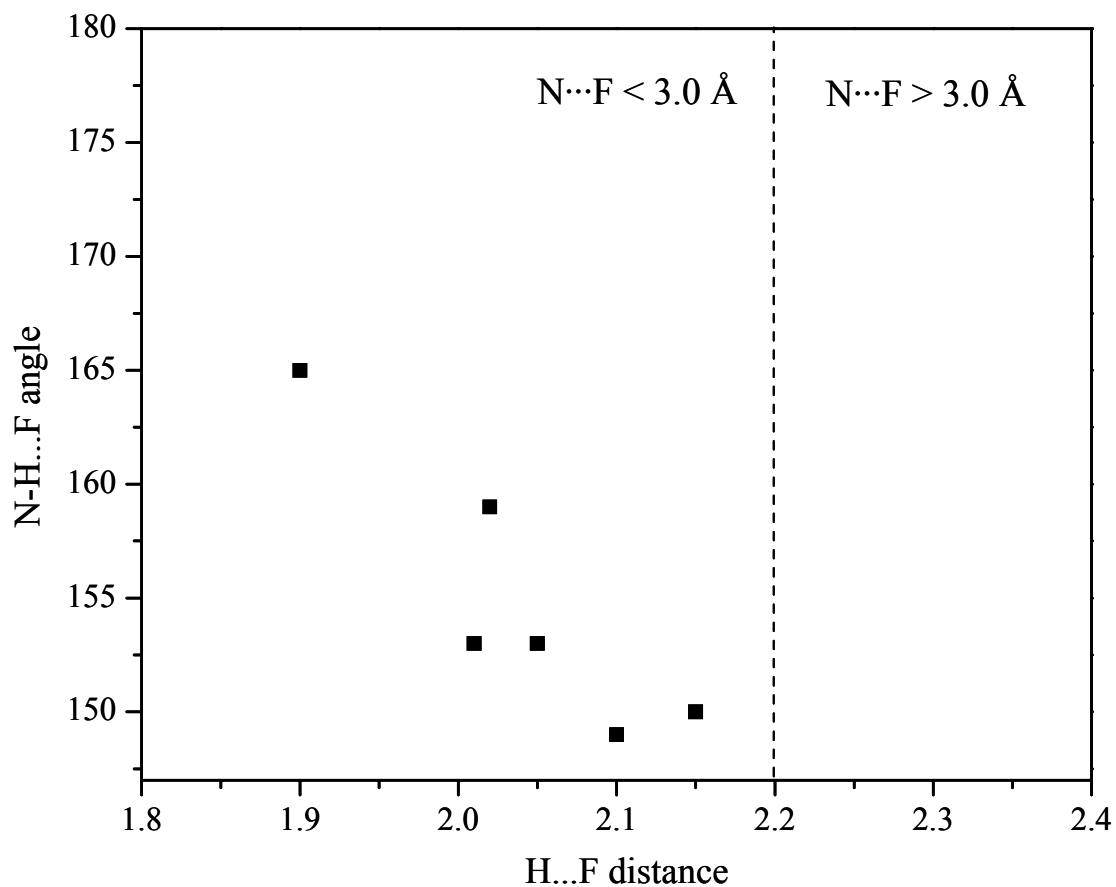


Figure 19S: Job's plot for L^1 with $n\text{-Bu}_4\text{N}^+\text{F}^-$ in DMSO-d_6 at 25°C .

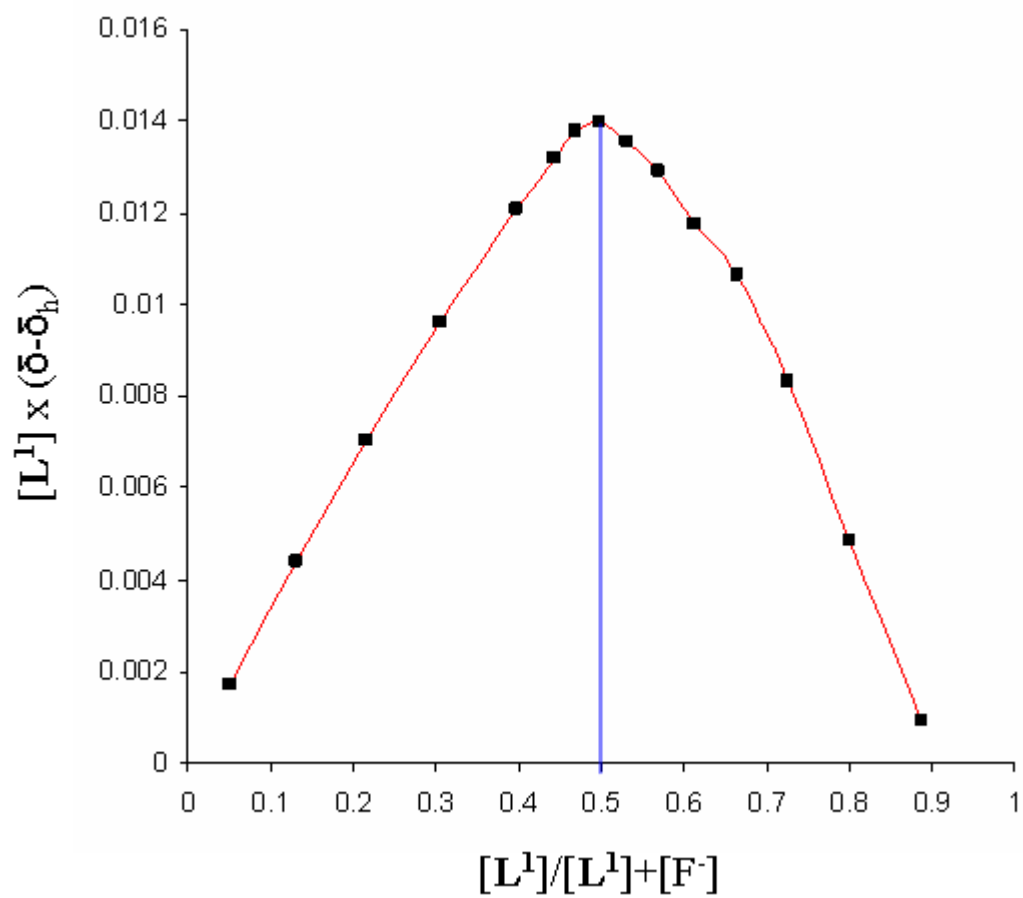


Figure 20S: Job's plot for L^1 with $n\text{-Bu}_4\text{N}^+\text{Cl}^-$ in DMSO-d_6 at 25°C .

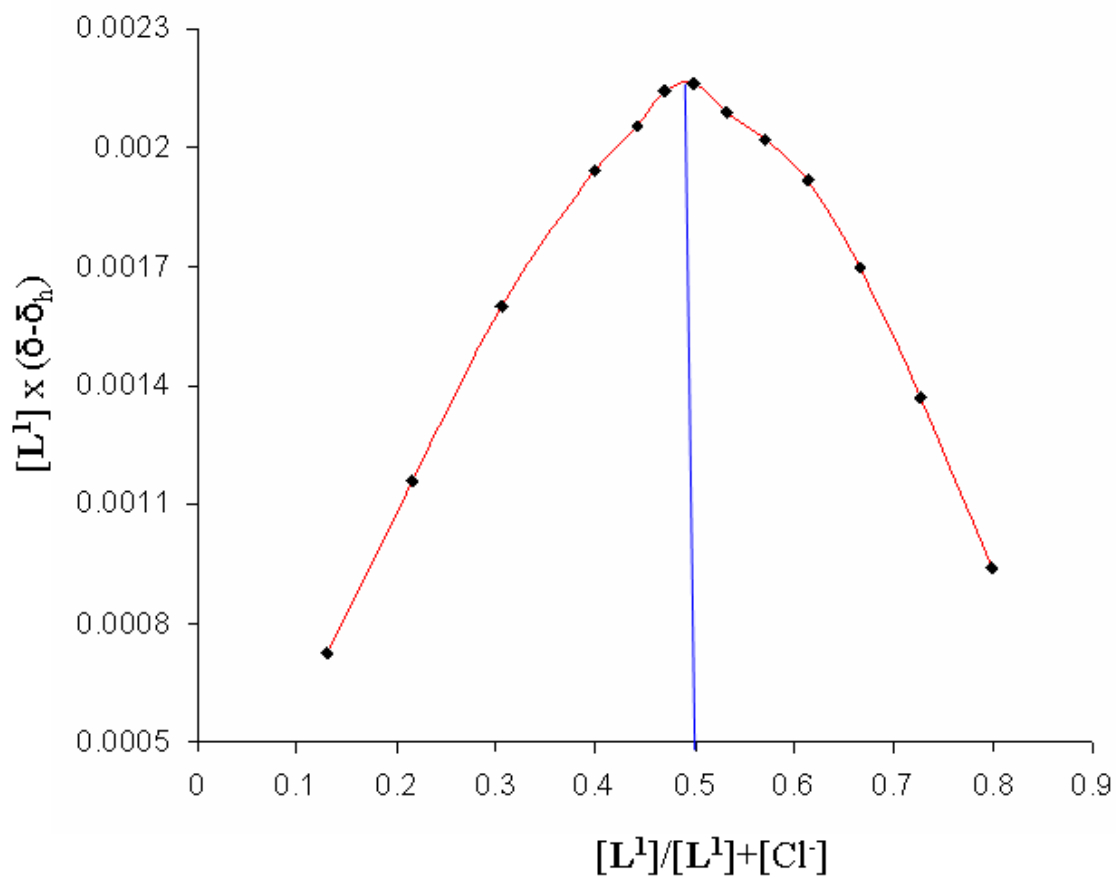


Figure 21S: Job's plot for L^1 with $n\text{-Bu}_4\text{N}^+\text{Br}^-$ in DMSO-d_6 at 25°C .

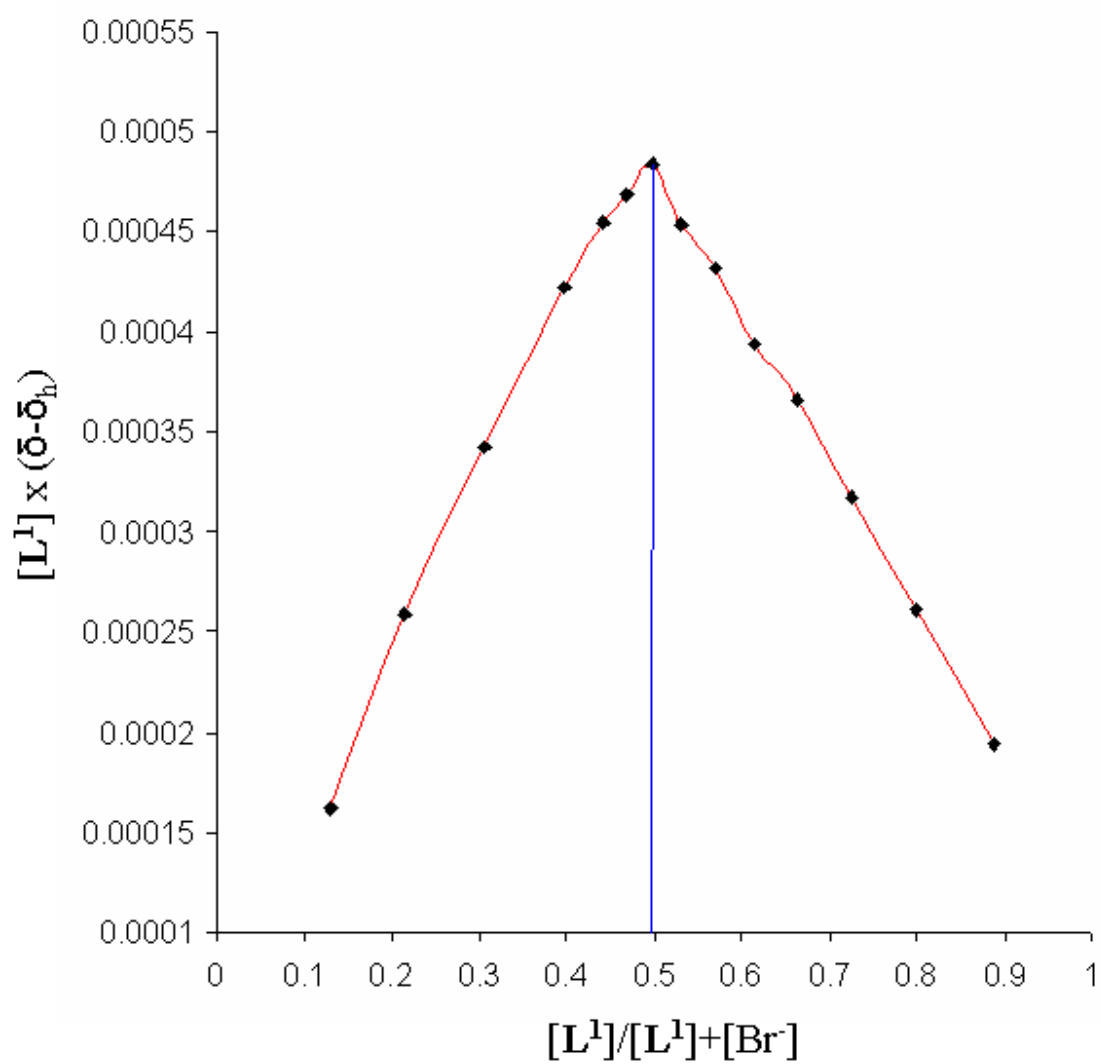


Figure 22S. Packing diagram of Complex 1 along b-axis.

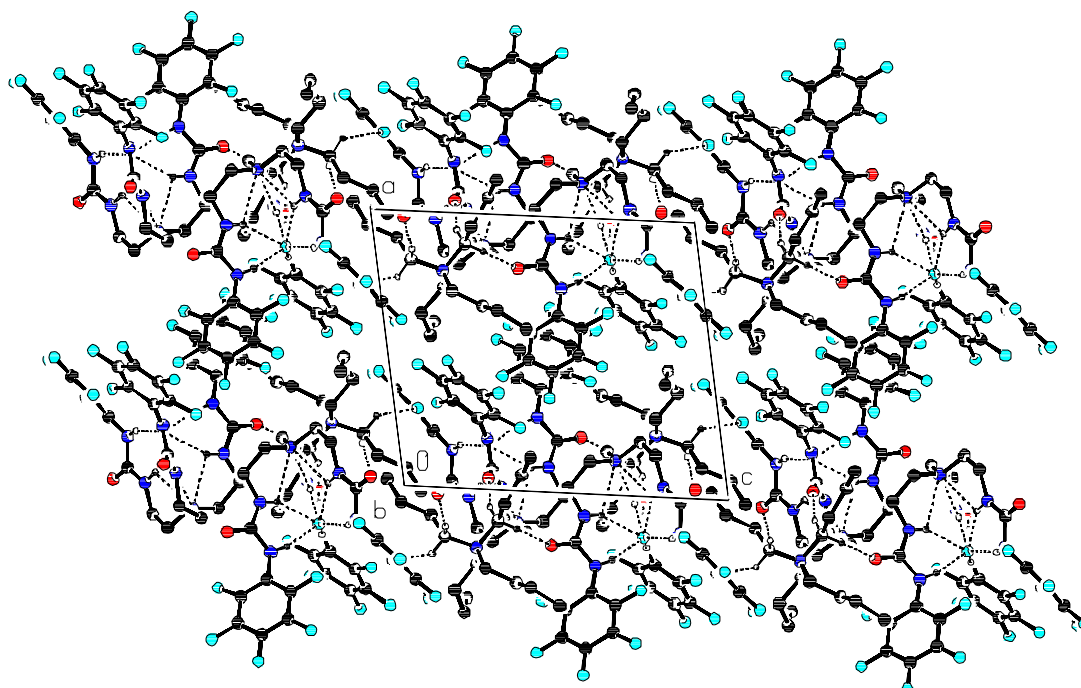


Figure 23S: ORTEP diagram of Complex **2** with 50% probability factor for the thermal ellipsoids.

