

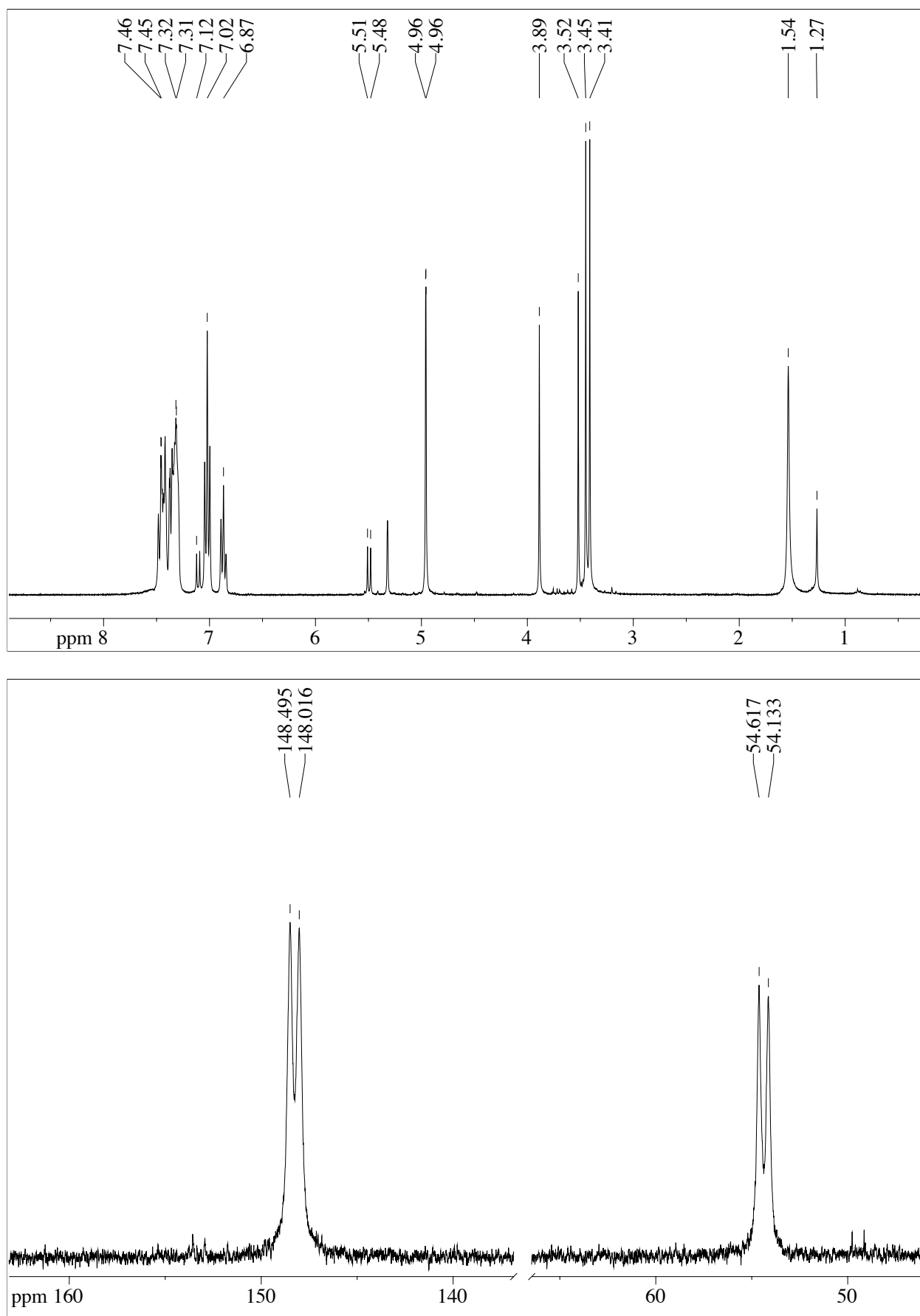
SUPPLEMENTARY INFORMATION

Preparation of Pyranylidene Complexes of Ruthenium

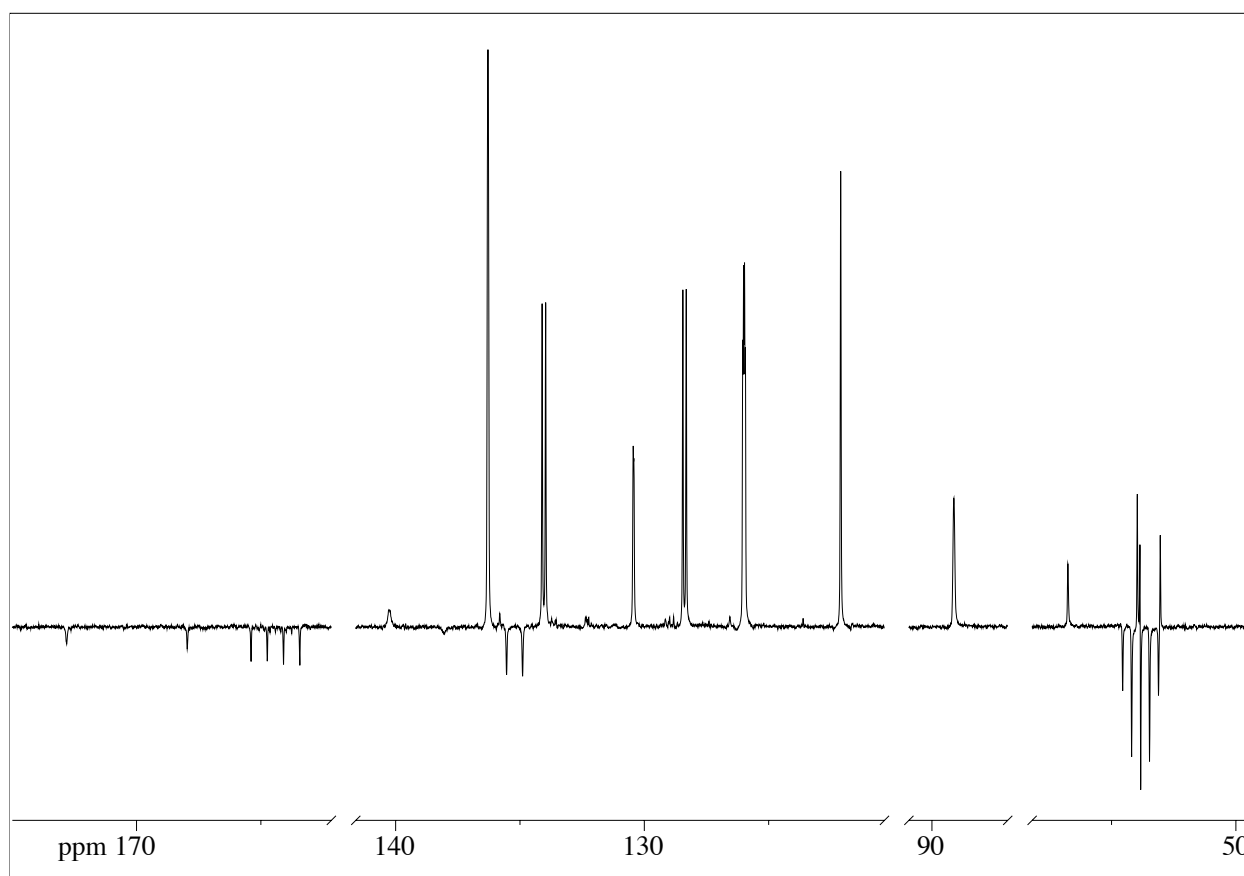
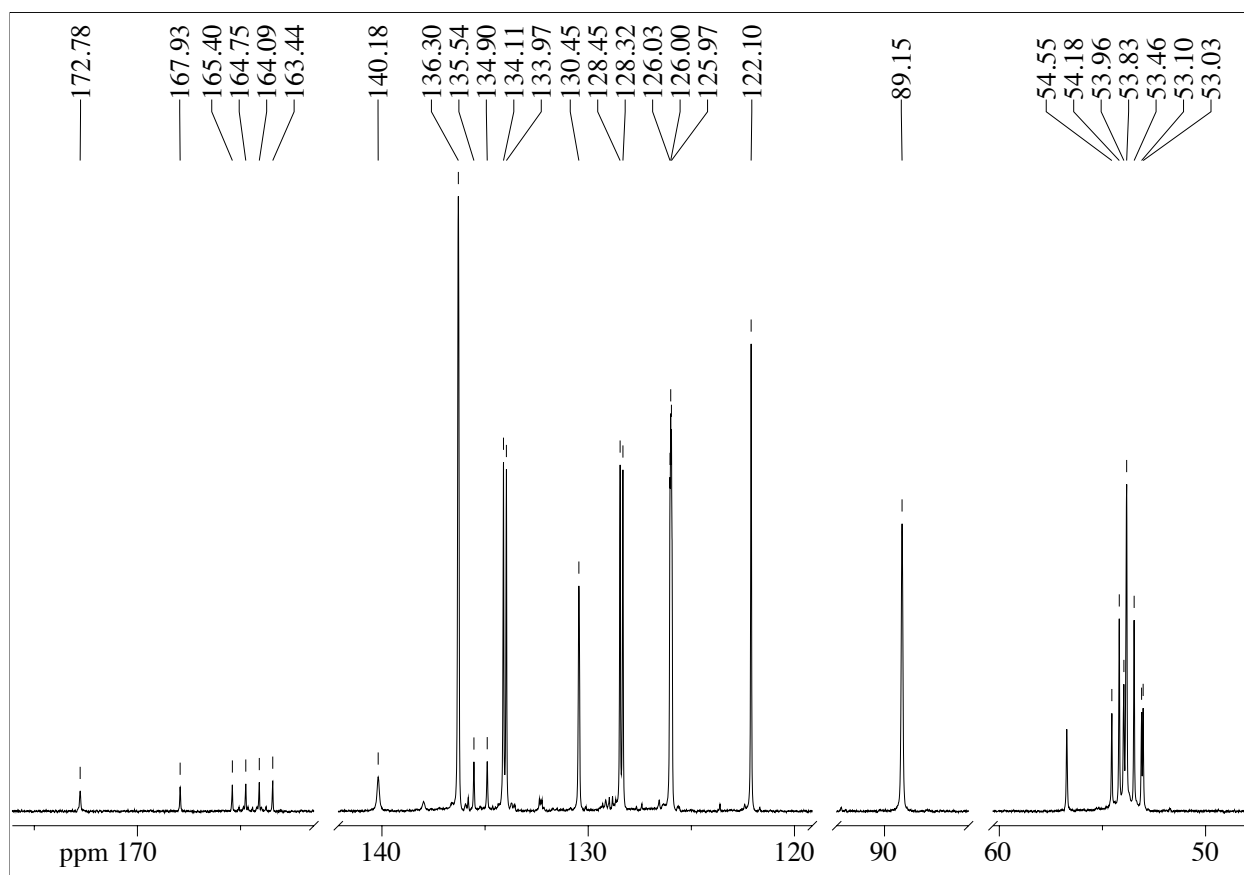
Gabriele Albertin,* *et al.*

NMR spectra of complexes:

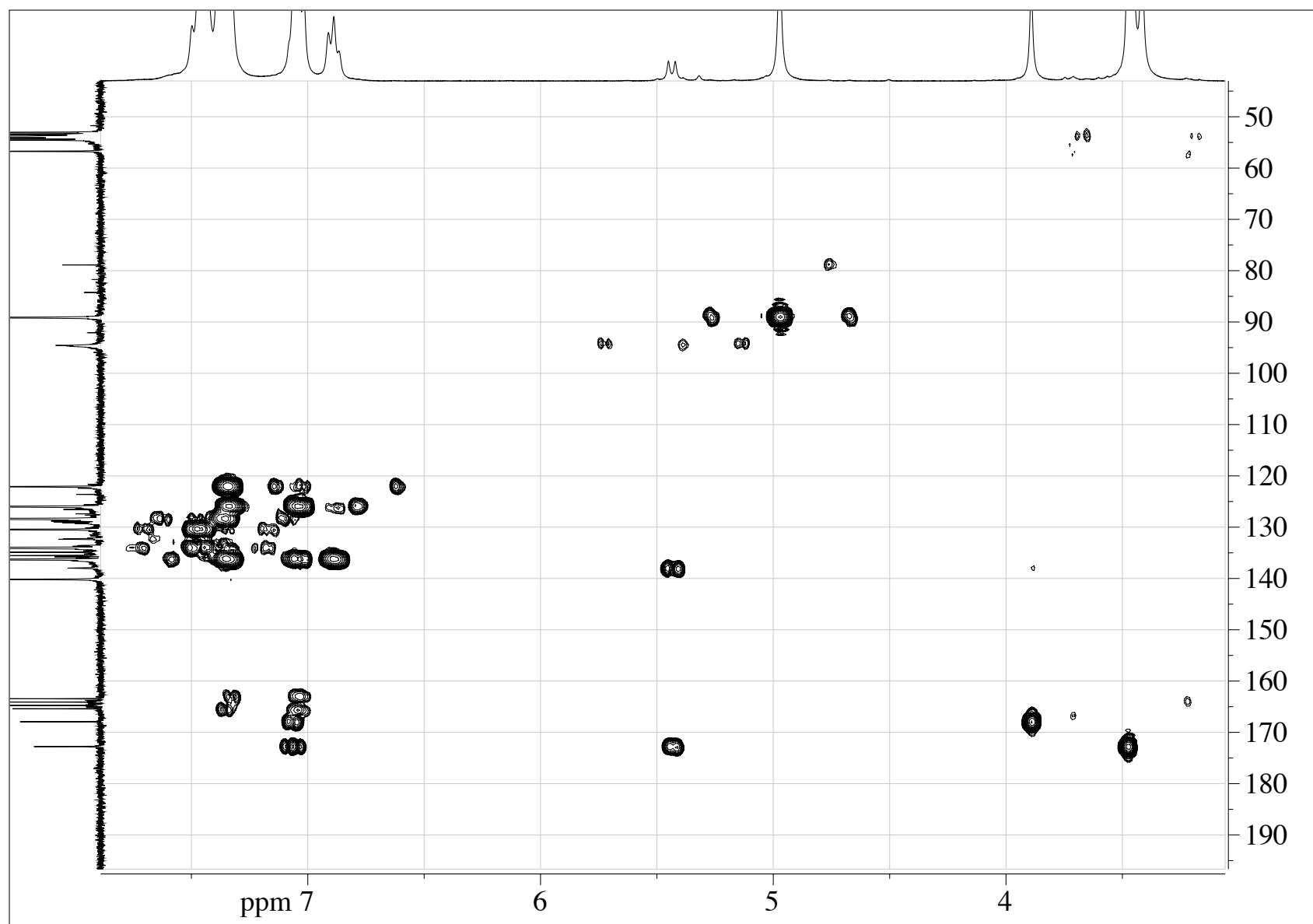




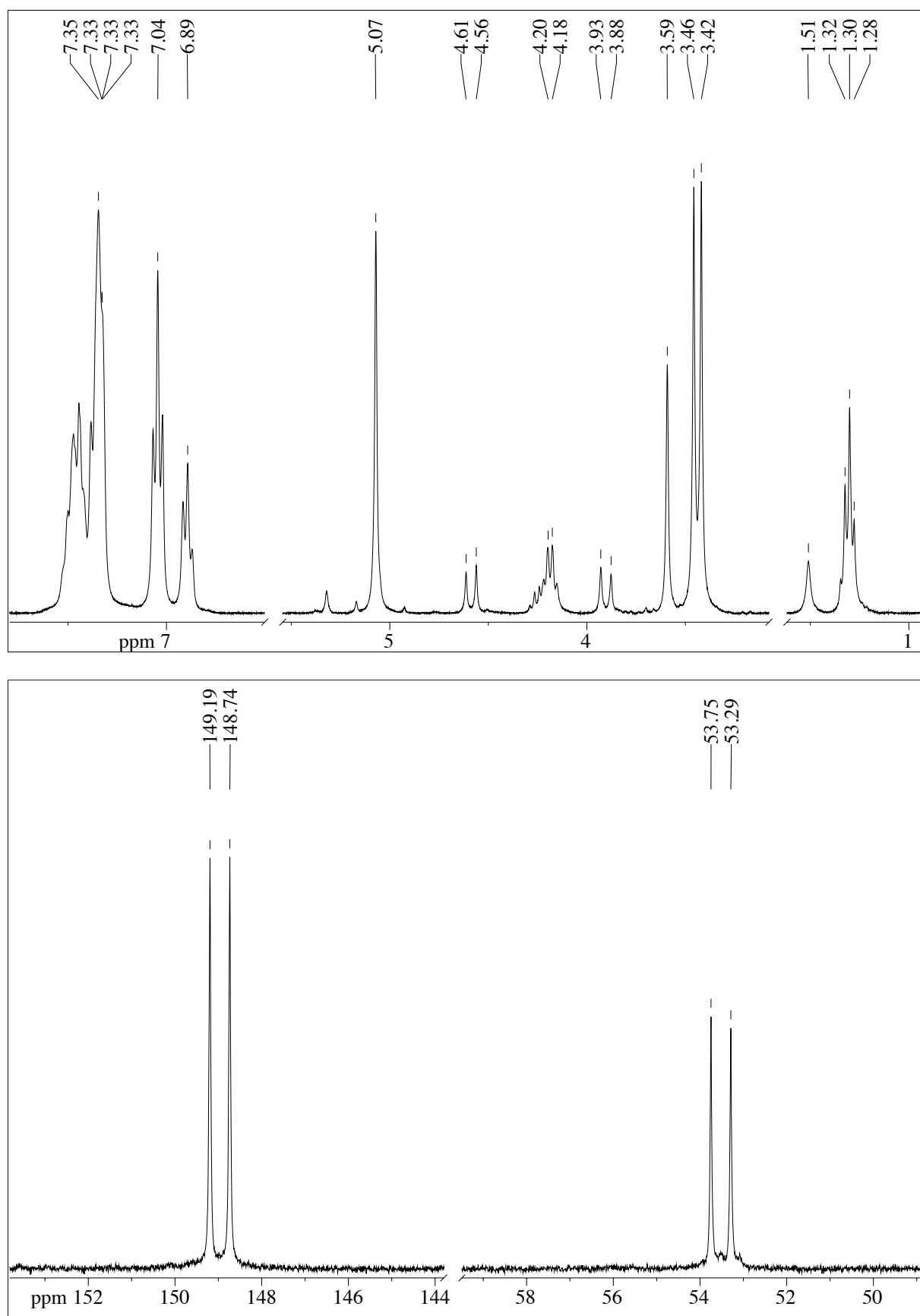
^1H (upper) and $^{31}\text{P}\{^1\text{H}\}$ (lower) NMR spectra for complex **1** in CD_2Cl_2 at 298 K.



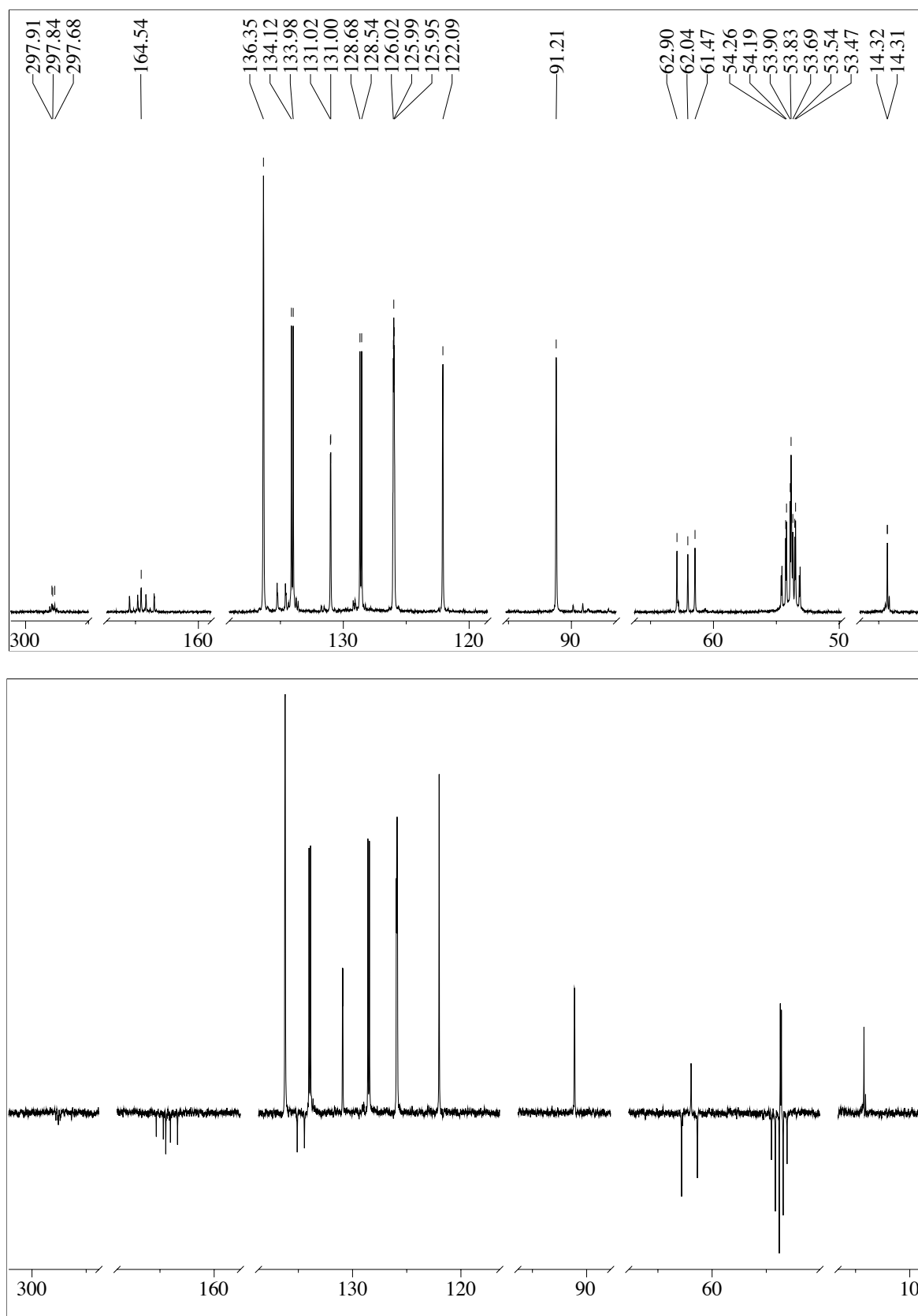
$^{13}\text{C}\{^1\text{H}\}$ (upper) and $^{13}\text{C}\{^1\text{H}\}$ APT (lower) NMR spectra for complex **1** in CD_2Cl_2 at 298 K.



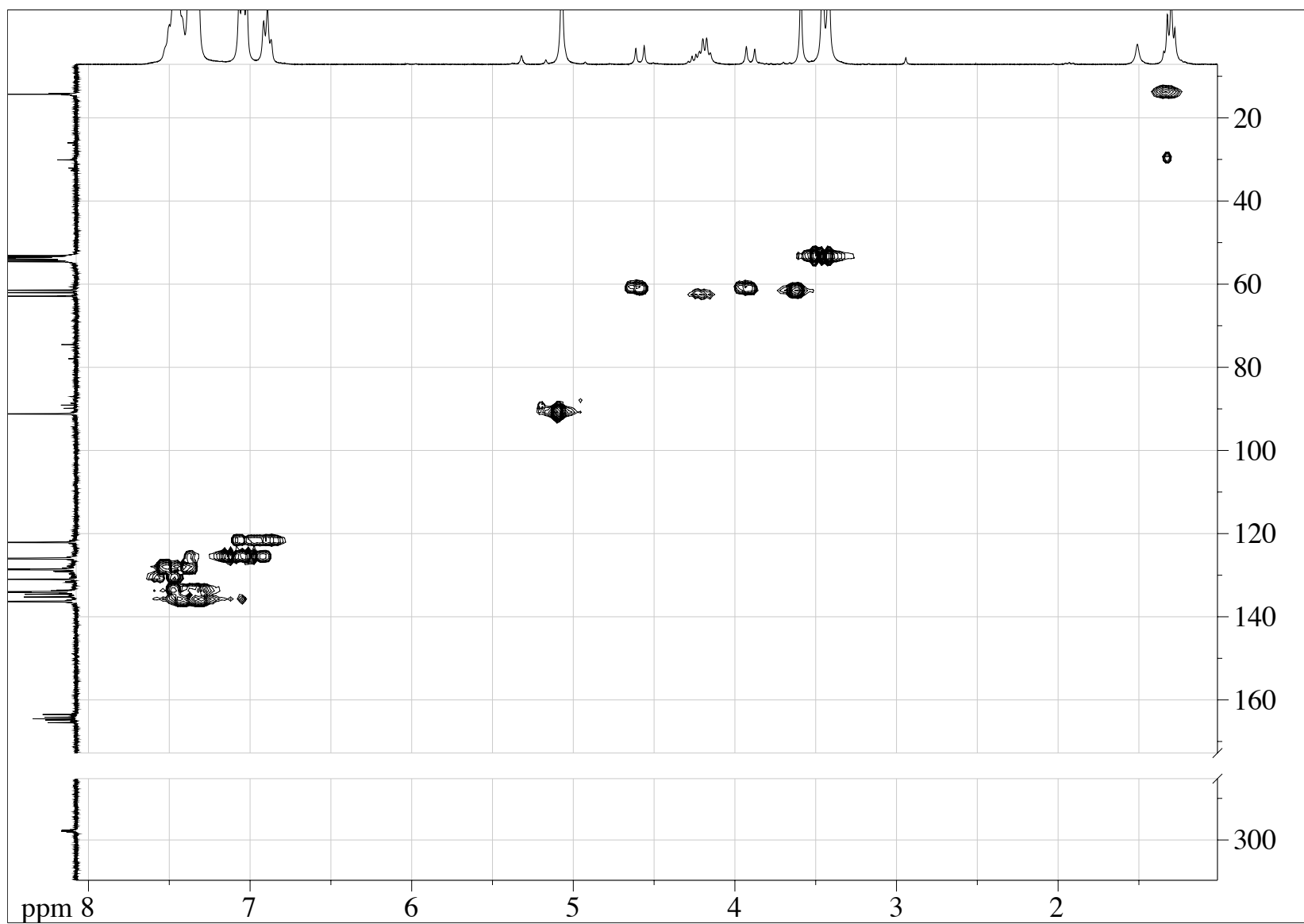
$^{13}\text{C}/^1\text{H}$ HMBC NMR spectrum for complex **1** in CD_2Cl_2 at 298 K..



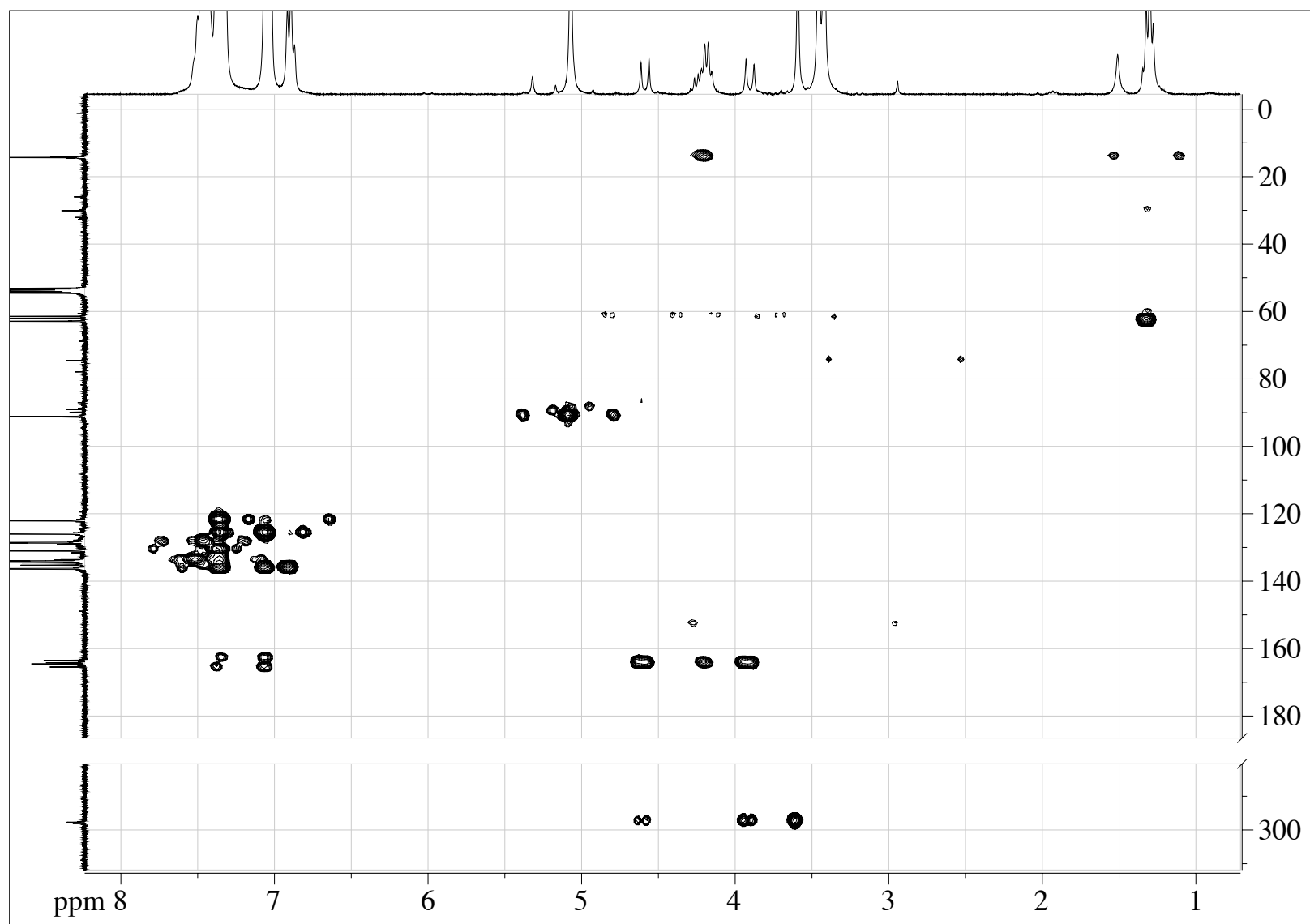
^1H (upper) and $^{31}\text{P}\{^1\text{H}\}$ (lower) NMR spectra for complex **4a** in CD_2Cl_2 at 298 K.



$^{13}\text{C}\{^1\text{H}\}$ (upper) and $^{13}\text{C}\{^1\text{H}\}$ APT (lower) NMR spectrum for complex **4a** in CD_2Cl_2 at 298 K.



$^1\text{H}/^{13}\text{C}$ HMQC NMR spectrum for complex **4a** in CD_2Cl_2 at 298 K.



$^1\text{H}/^{13}\text{C}$ HMBC NMR spectrum for complex **4a** in CD_2Cl_2 at 298 K.