Electronic Supplementary Material (ESI) for Dalton Transactions.


# Reactivity of Ir(I)-aminophosphane platforms towards oxidants

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*$^{1}H$, $^{31}P\{^{1}H\}$ and $^{13}C\{^{1}H\}$ NMR spectra of **1**, **2**Cl, **3**, **4**, **5**$[PF_6]_2$, 6I, **7a/b**$PF_6$, **8**$CF_3SO_3$.*

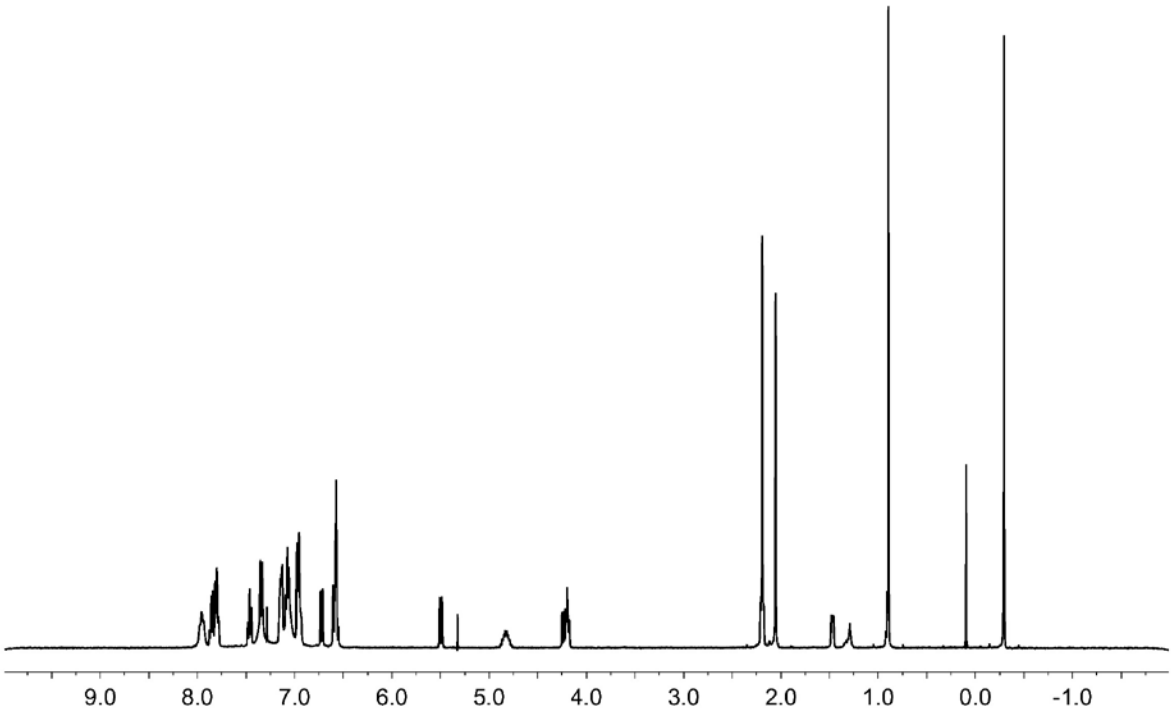


**Figure 1.** $^{1}H$ NMR spectrum of **1** ($CD_2Cl_2$, 298 K).

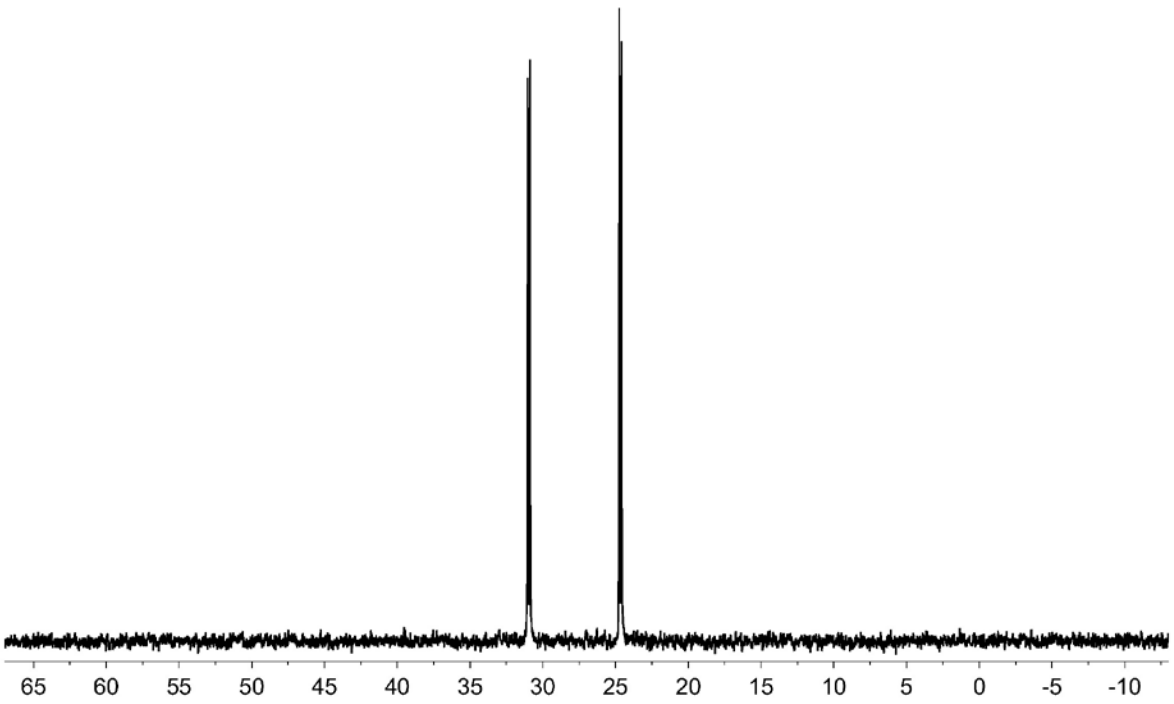


**Figure 2.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **1** ($CD_2Cl_2$, 298 K).

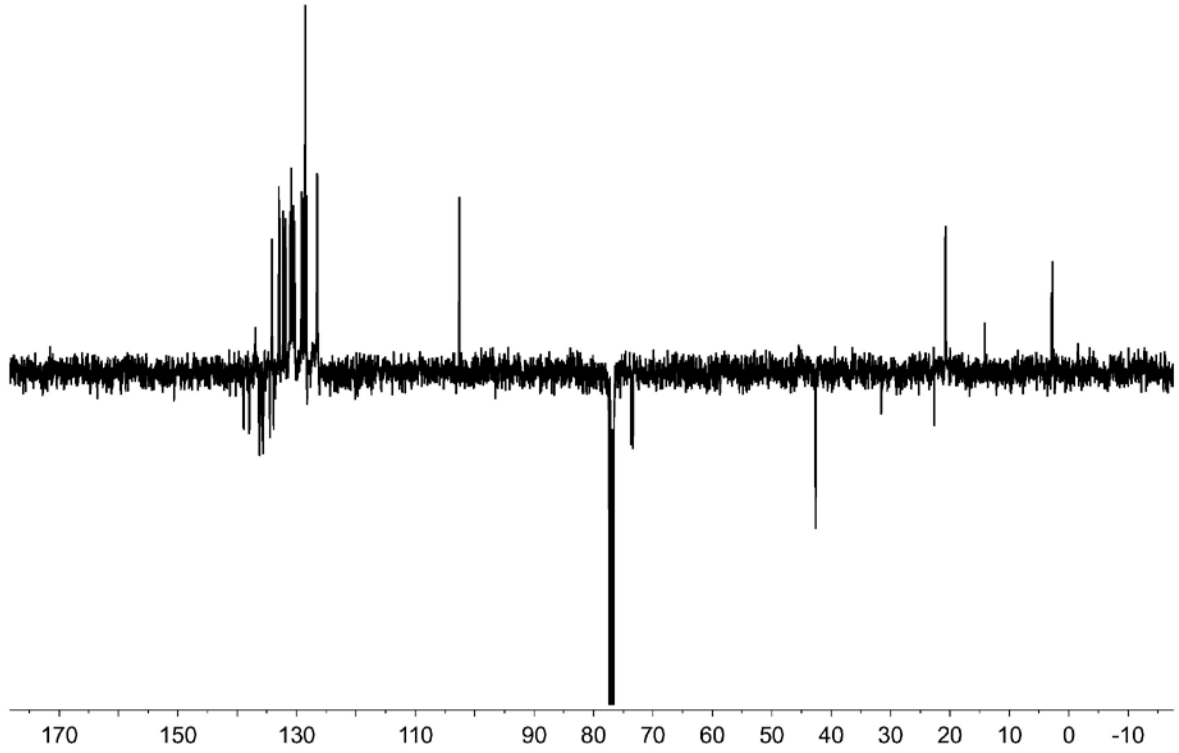


**Figure 3.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **1** ($CD_2Cl_2$, 298 K).

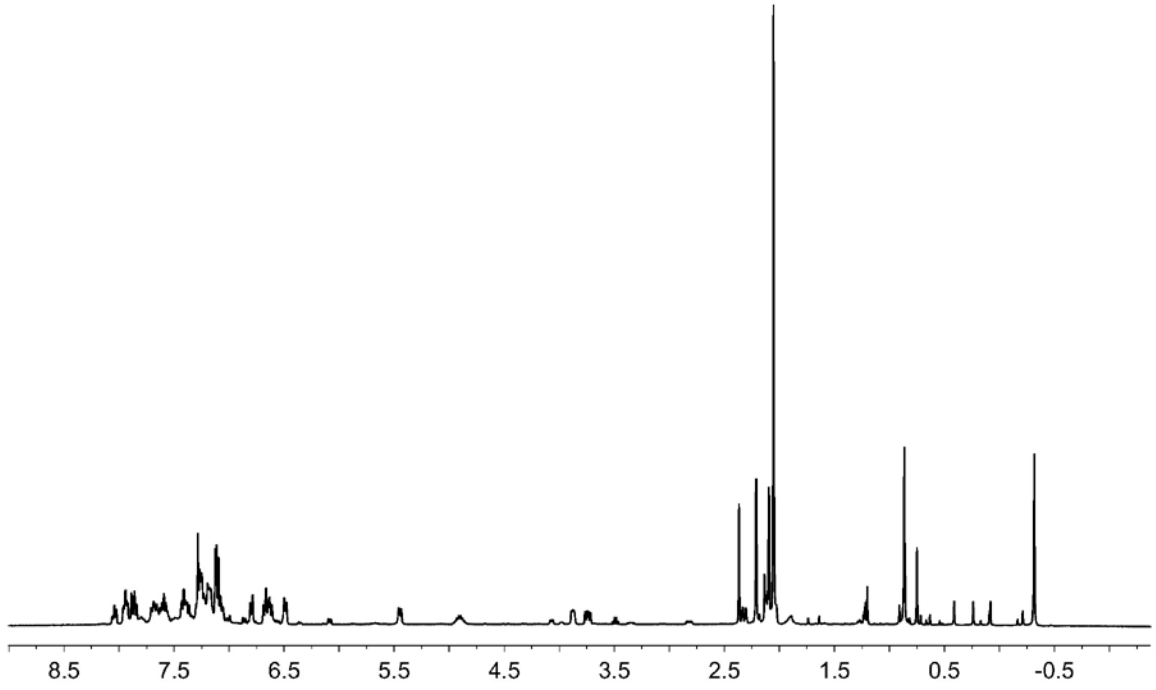


**Figure 4.** $^{1}H$ NMR spectrum of **2**Cl (CD2Cl2, 298 K).

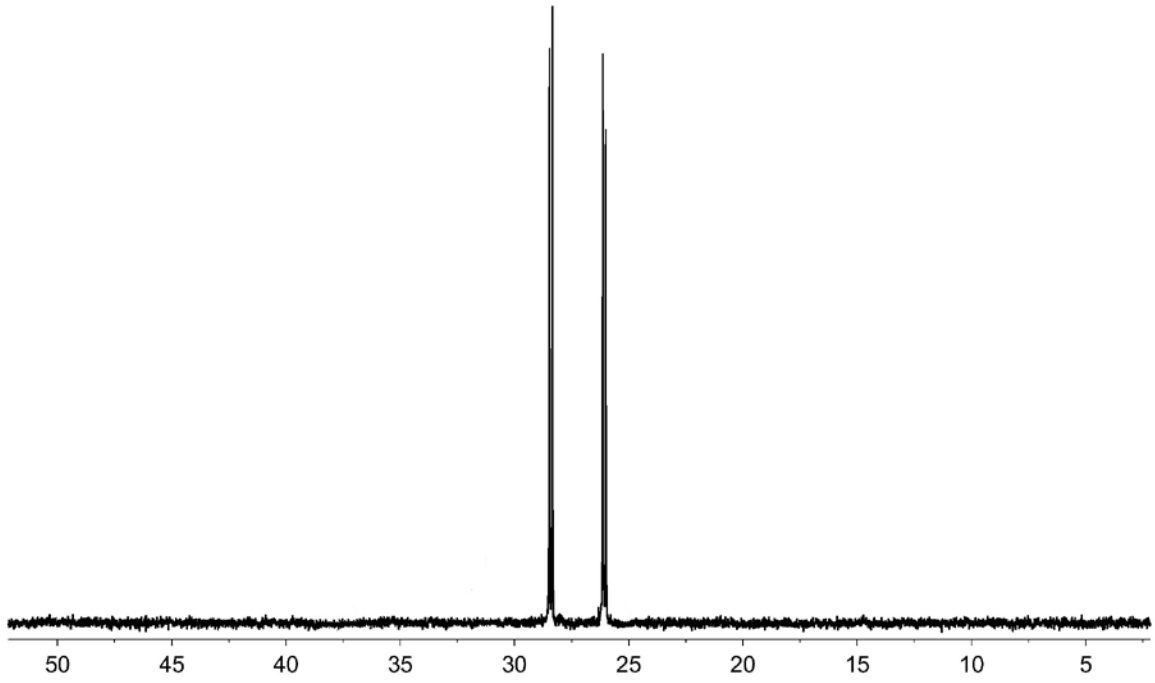


**Figure 5.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **2**Cl ($CD_2Cl_2$, 298 K).

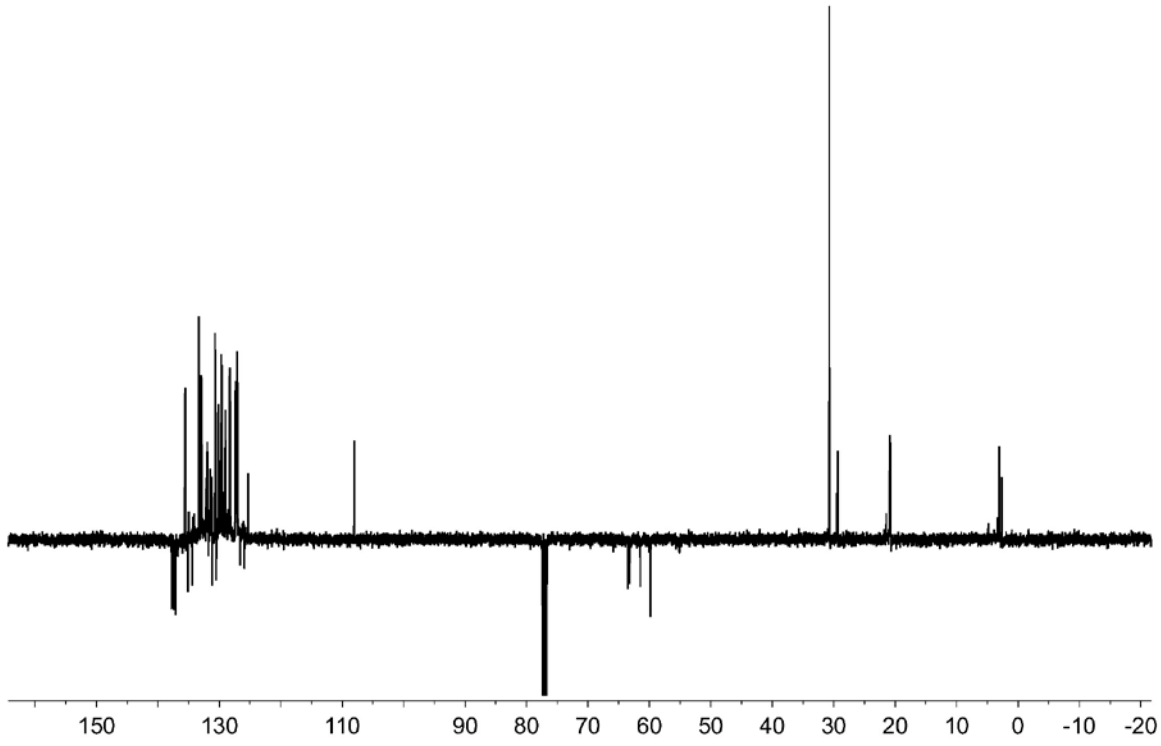


**Figure 6.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **2**Cl ($CD_2Cl_2$, 298 K).

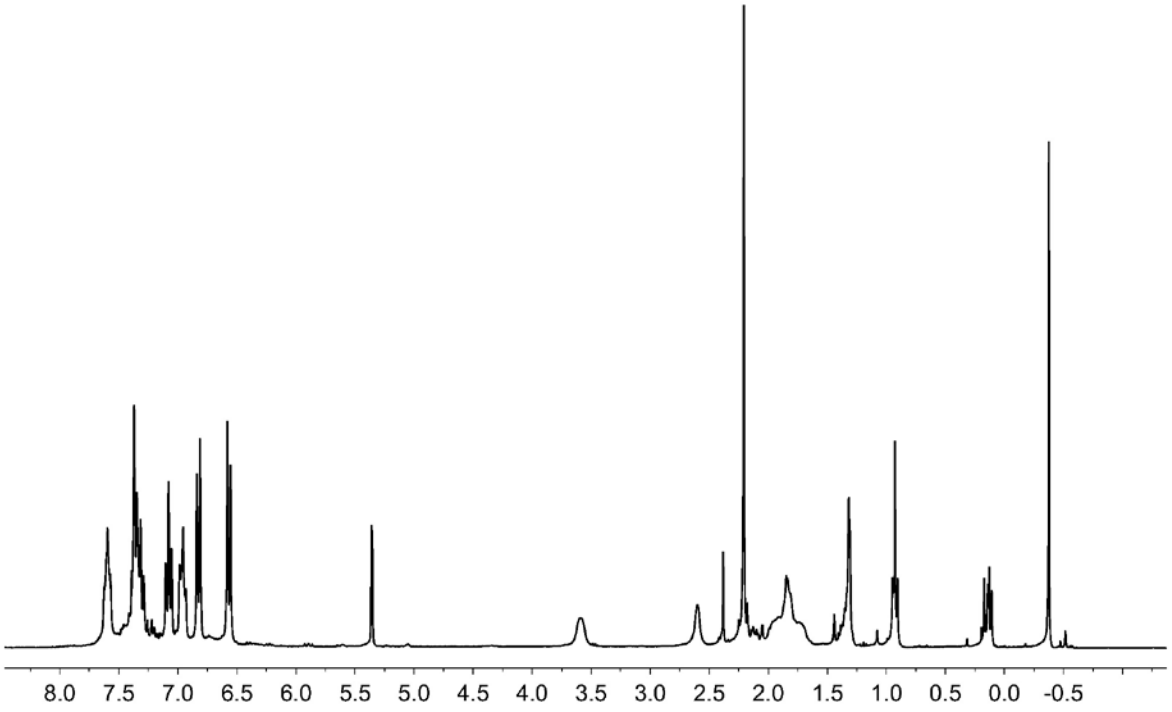


**Figure 7.** $^{1}H$ NMR spectrum of **4** ($CD_2Cl_2$, 298 K).

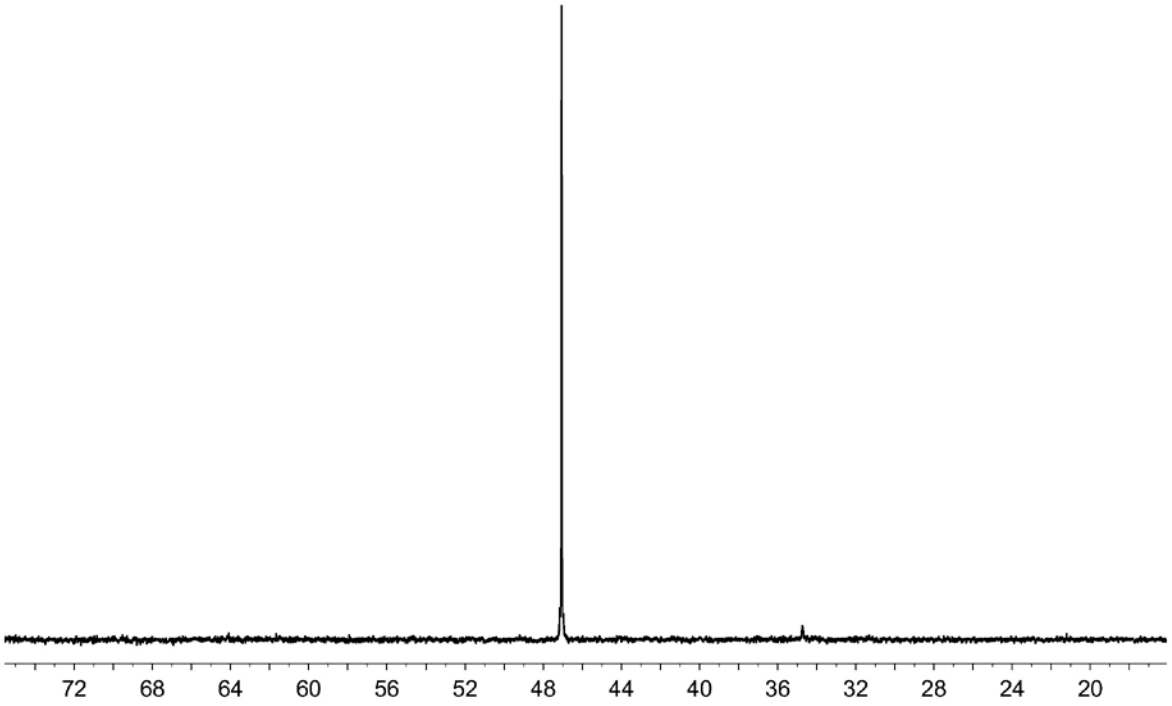


**Figure 8.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **4** ($CD_2Cl_2$, 298 K).

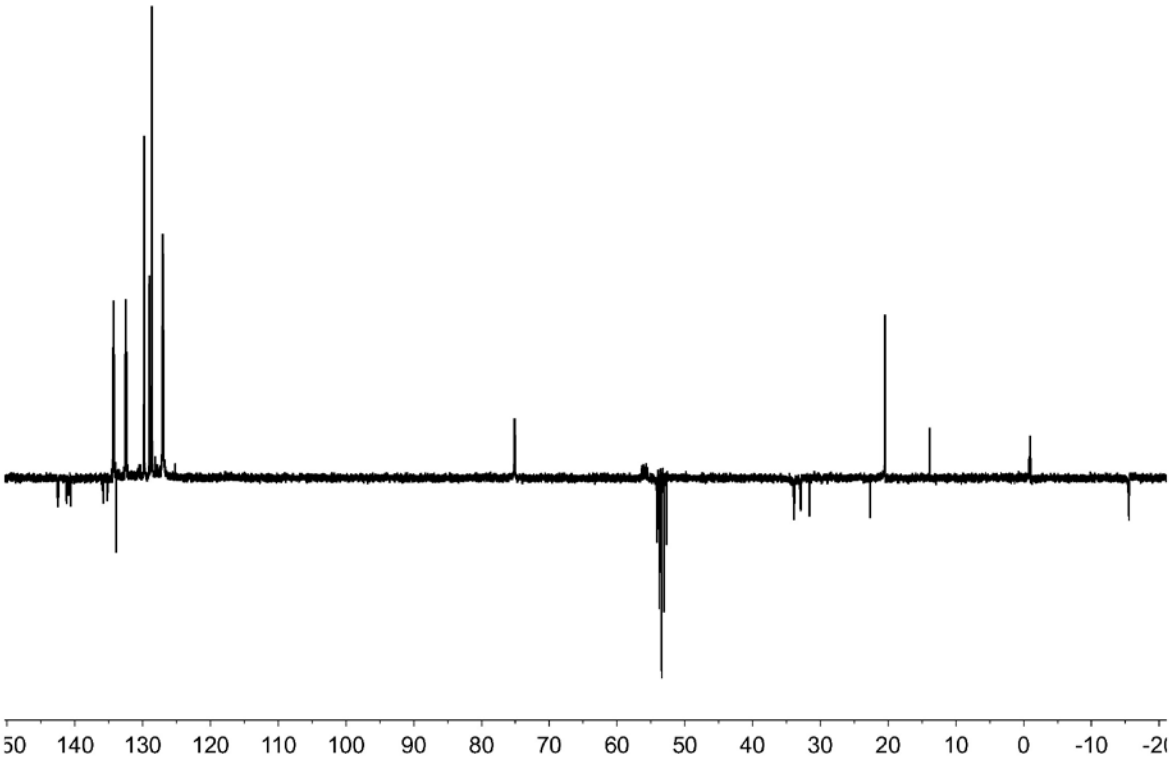


**Figure 9.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **4** ($CD_2Cl_2$, 298 K).

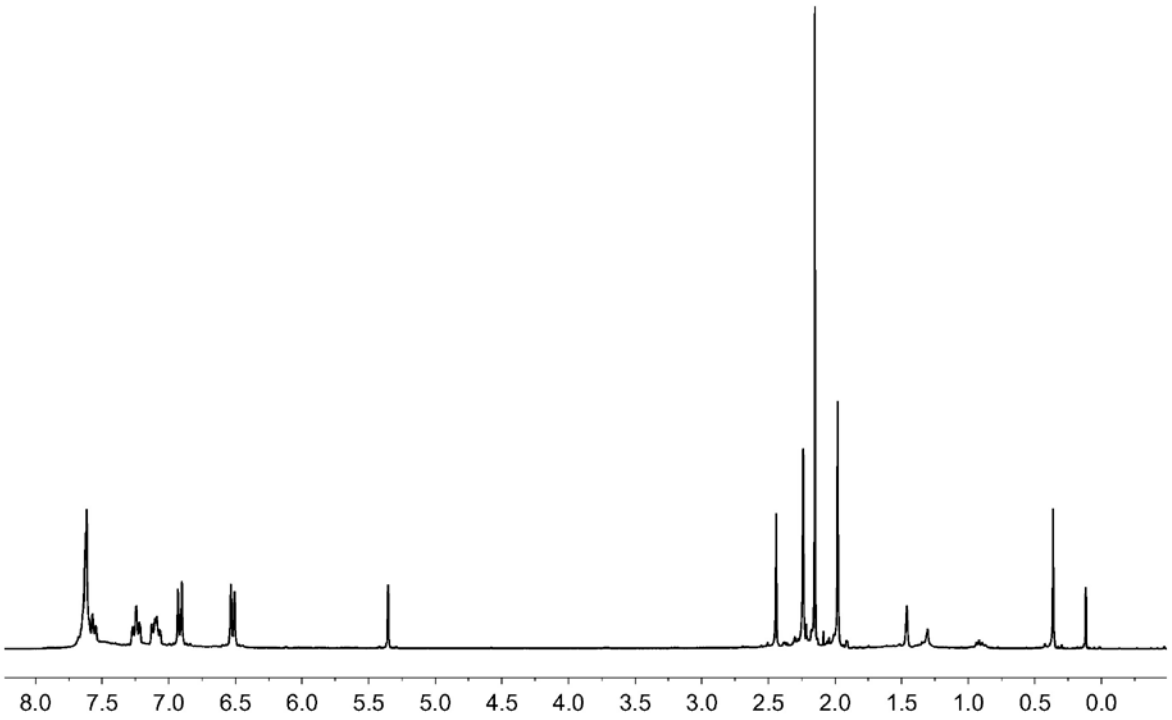


**Figure 10.** $^{1}H$ NMR spectrum of **5** ($CD_2Cl_2$, 298 K).

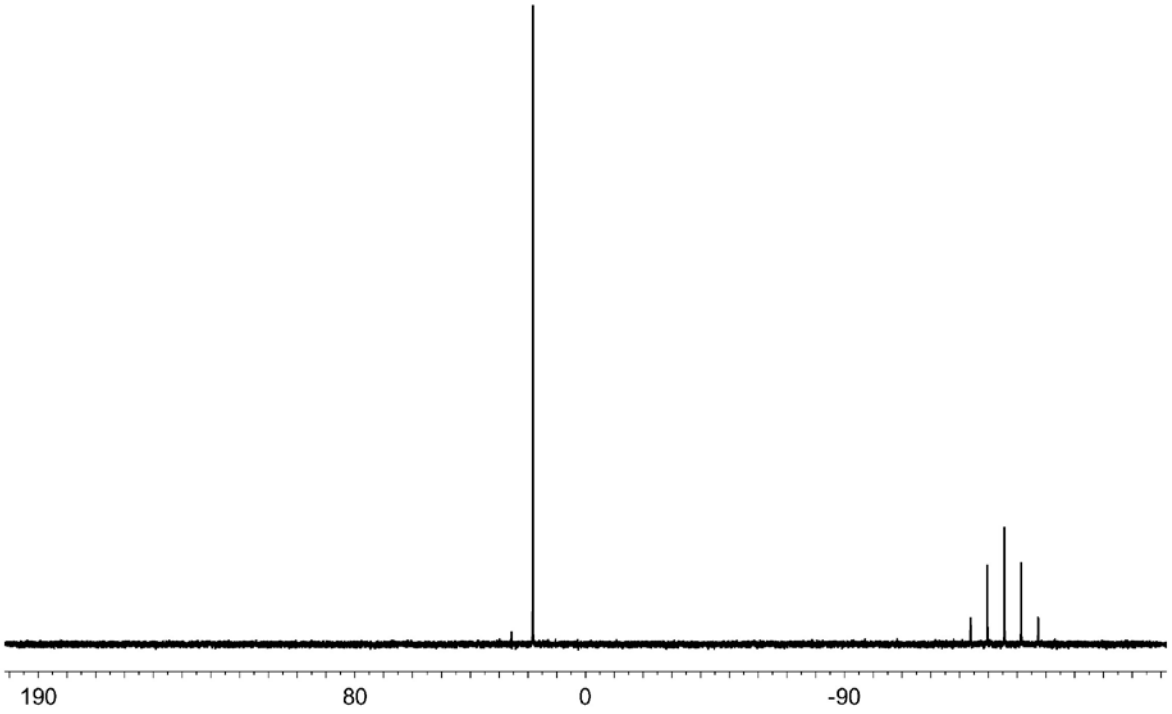


**Figure 11.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **5** ($CD_2Cl_2$, 298 K).

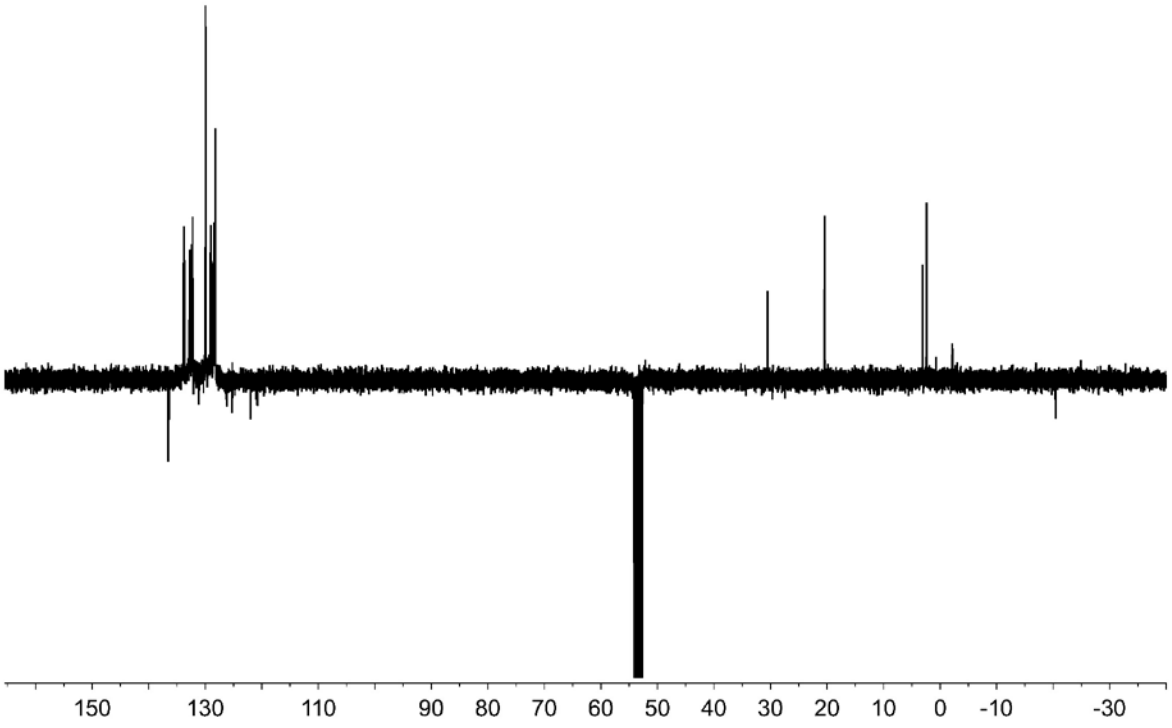


**Figure 12.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **5** ($CD_2Cl_2$, 298 K).

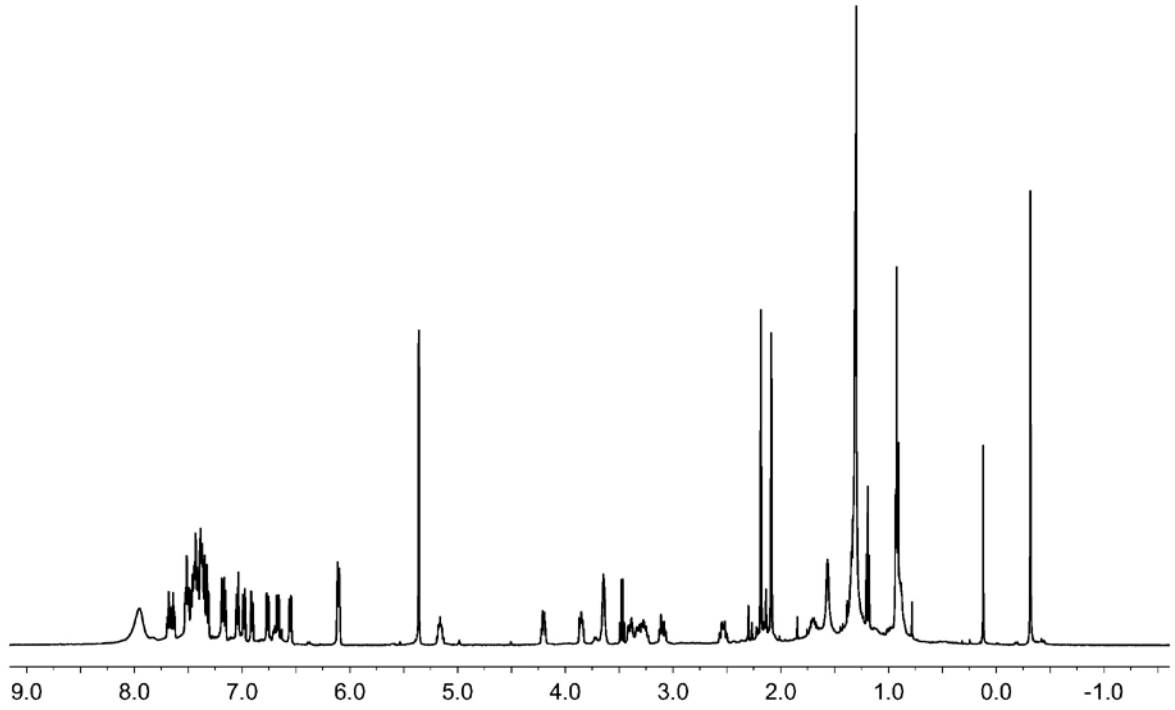


**Figure 13.** $^{1}H$ NMR spectrum of **6**I ($CD_2Cl_2$, 298 K).

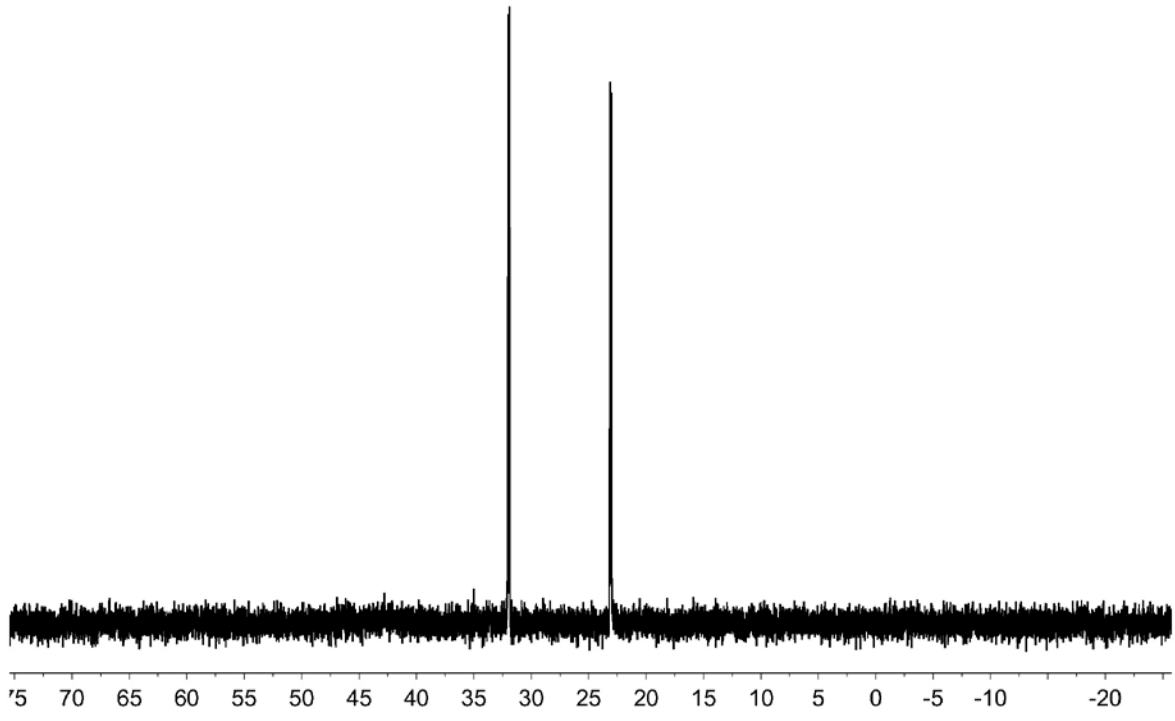


**Figure 14.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **6**I ($CD_2Cl_2$, 298 K).

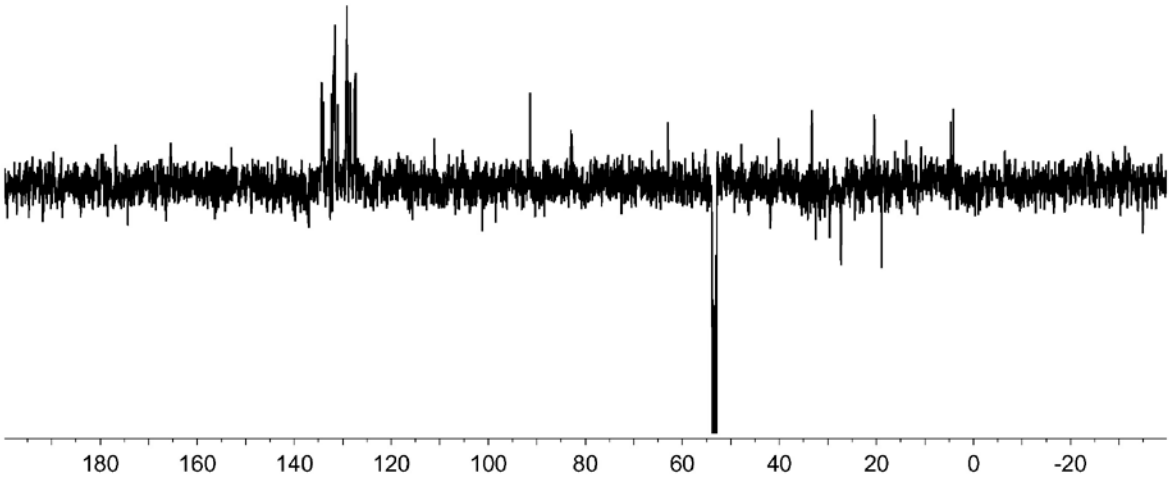


**Figure 15.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **6**I ($CD_2Cl_2$, 298 K).

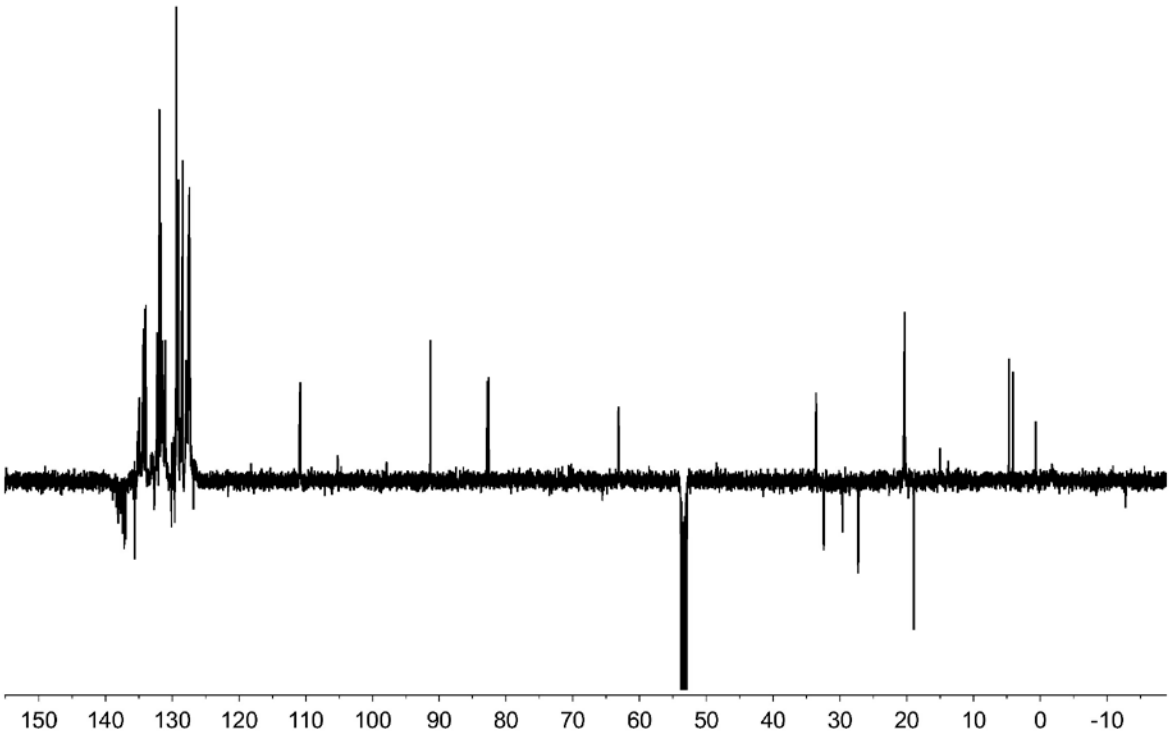


**Figure 16.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **6**I + **7a/b**I ($CD_2Cl_2$, 298 K).

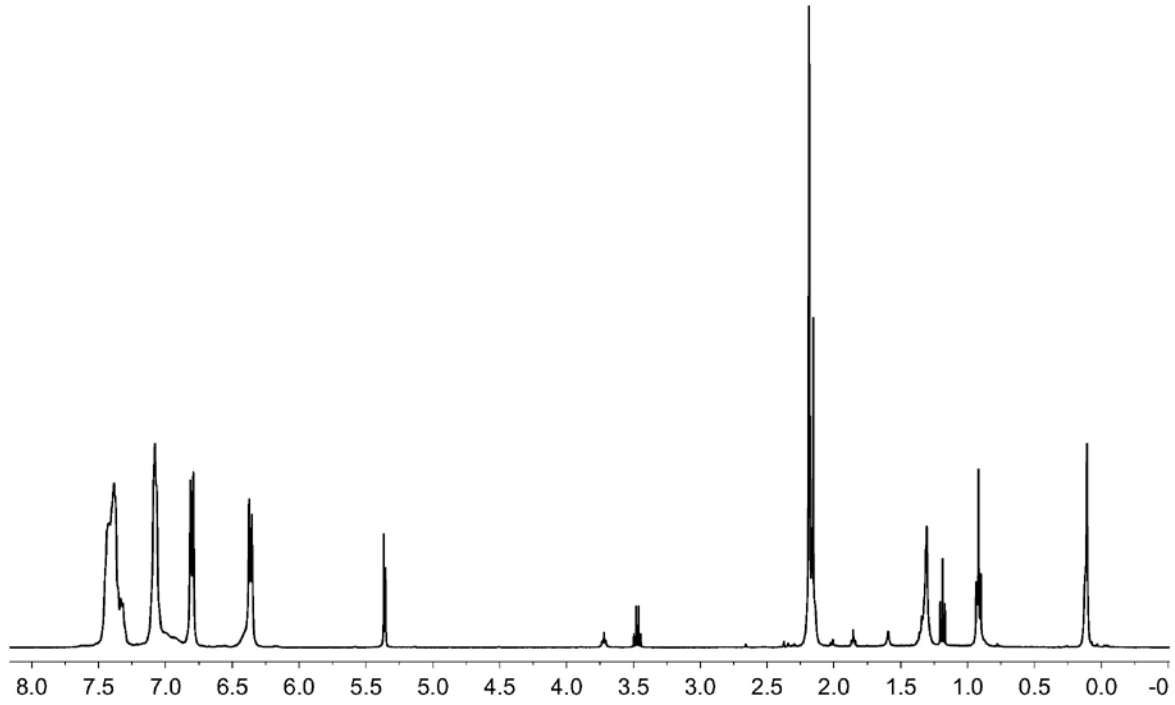


**Figure 17.** $^{1}$H NMR spectrum of **7a**$PF_6$ + **7b**$PF_6$ ($CD_2Cl_2$, 298 K).

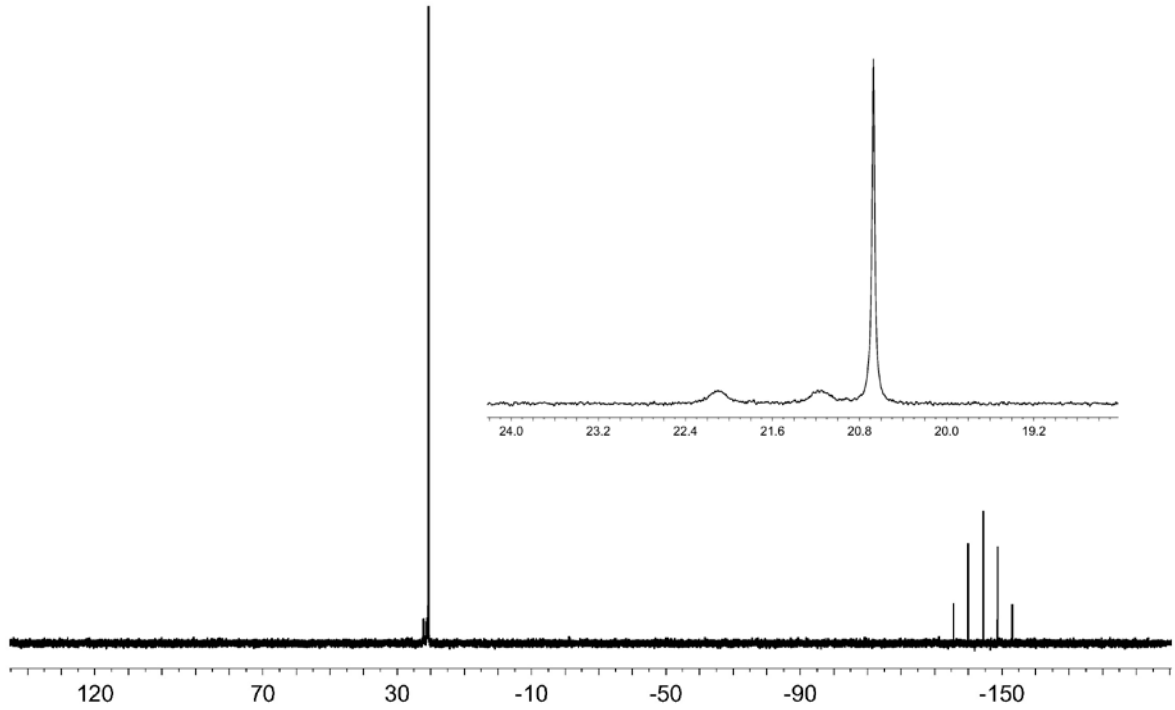


**Figure 18.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **7a**$PF_6$ + 7b$PF_6$ ($CD_2Cl_2$, 298 K).

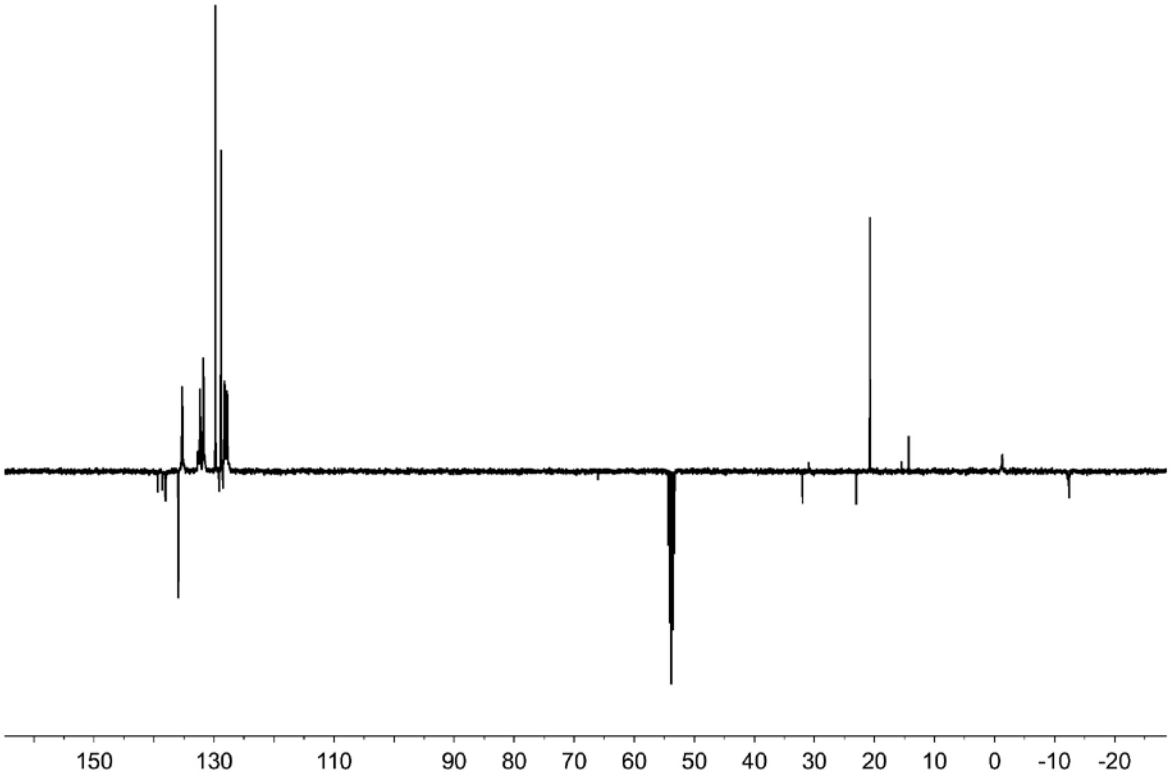


**Figure 19.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **7a**$PF_6$ + **7b**$PF_6$ ($CD_2Cl_2$, 298 K).

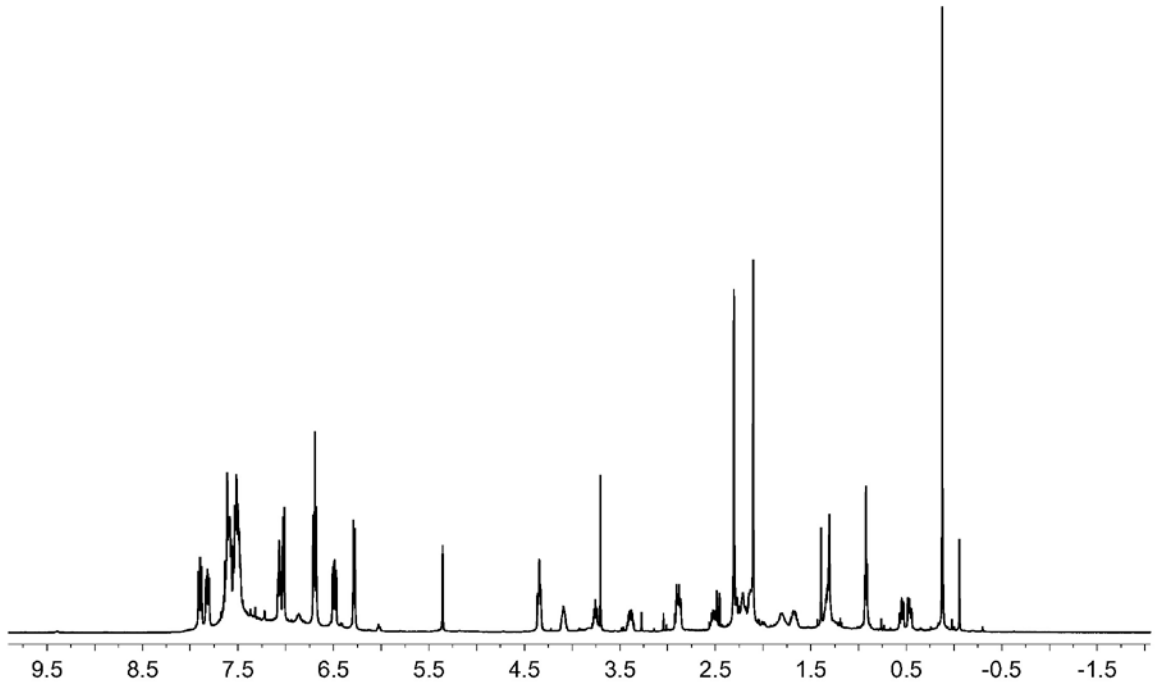


**Figure 20.** $^{1}H$ NMR spectrum of **8**$CF_3SO_3$ ($CD_2Cl_2$, 298 K).

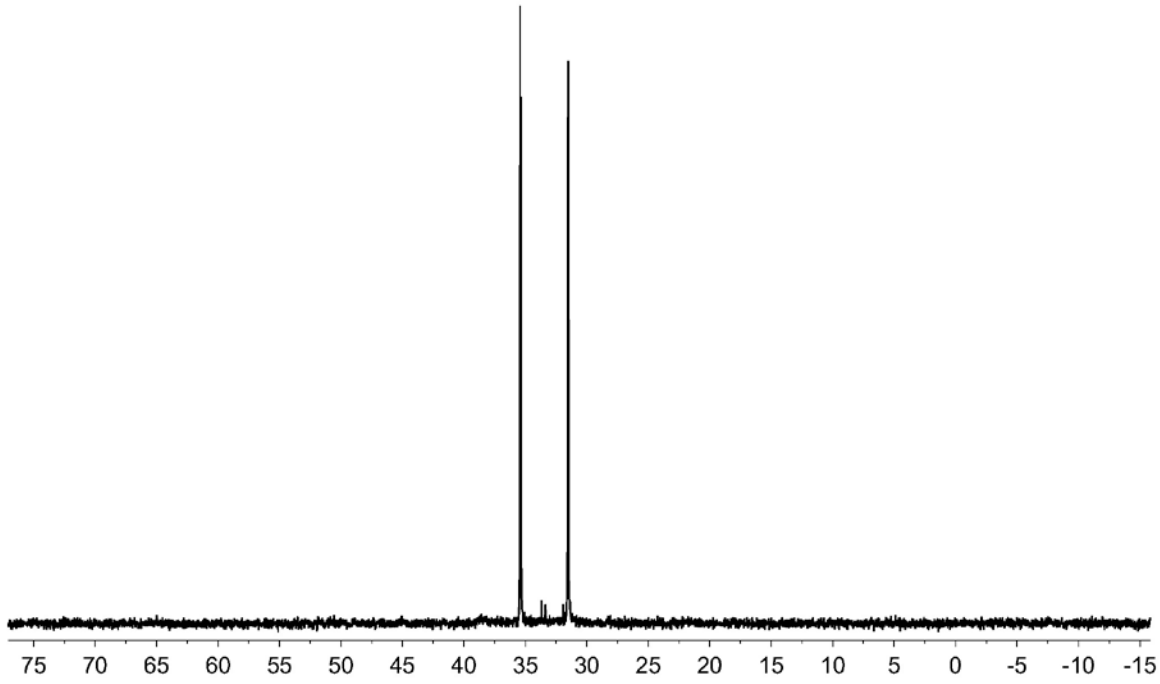


**Figure 21.** $^{31}P\{^{1}H\}$ apt NMR spectrum of **8**$CF_3SO_3$ ($CD_2Cl_2$, 298 K).

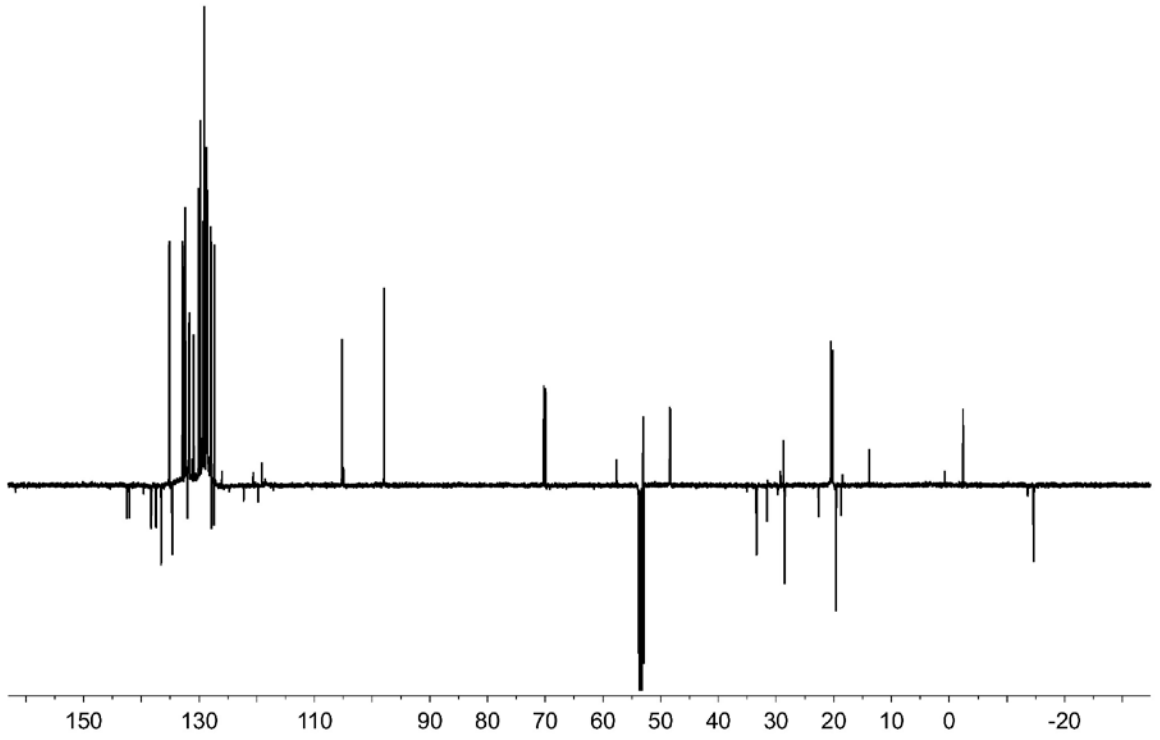


**Figure 22.** $^{13}C\{^{1}H\}$ apt NMR spectrum of **8**$CF_3SO_3$ ($CD_2Cl_2$, 298 K).