Electronic Supplementary Material (ESI) for Dalton Transactions.
This journal is © The Royal Society of Chemistry 2019

Supporting Information

Facile synthesis of 1,5-disubstituted 1,2,3-triazoles by the regiospecific alkylation of a ruthenium triazolato complex

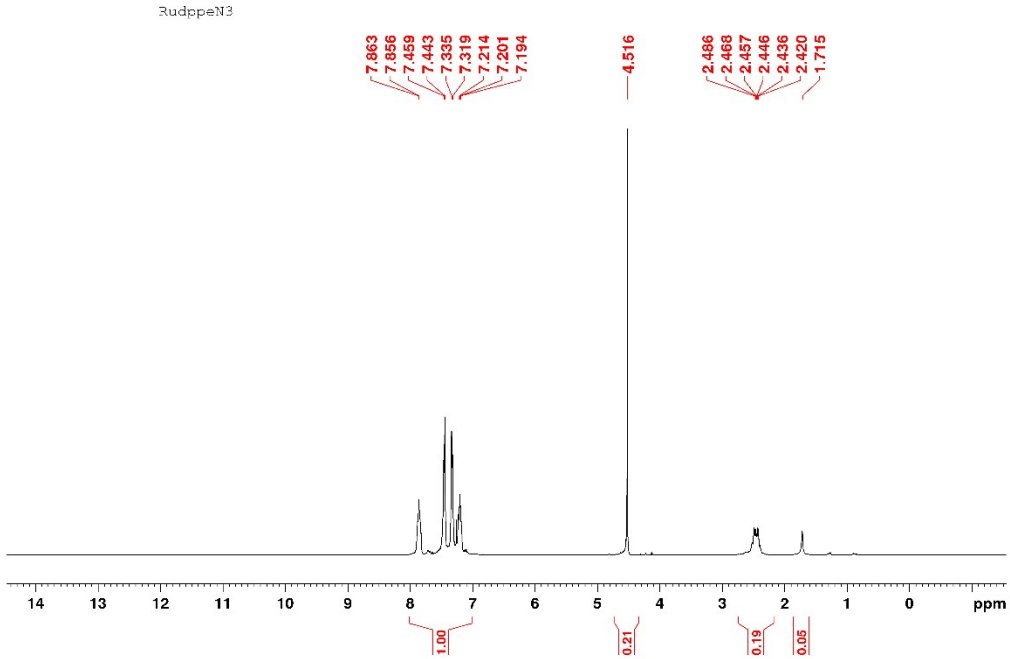
Chao-Wan Chang[*,a], and Gene-Hsiang Lee*[b]

[a]Division of Preparatory Programs for Overseas Chinese Students, National Taiwan Normal University, Linkou, New Taipei City 24449, Taiwan

[b]Instrumentation Center, National Taiwan University, Taipei 10617, Taiwan

Content:

NMR spectra of all relevant compounds



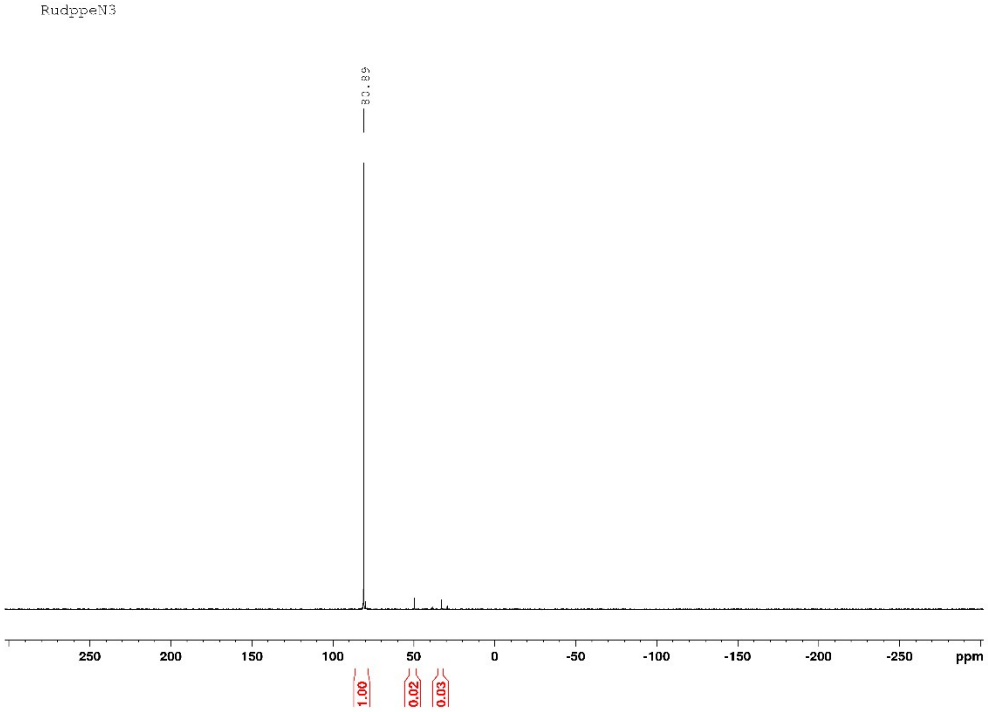


Fig. S1 ^{1}H NMR and ^{31}P NMR spectra of compound **1**.

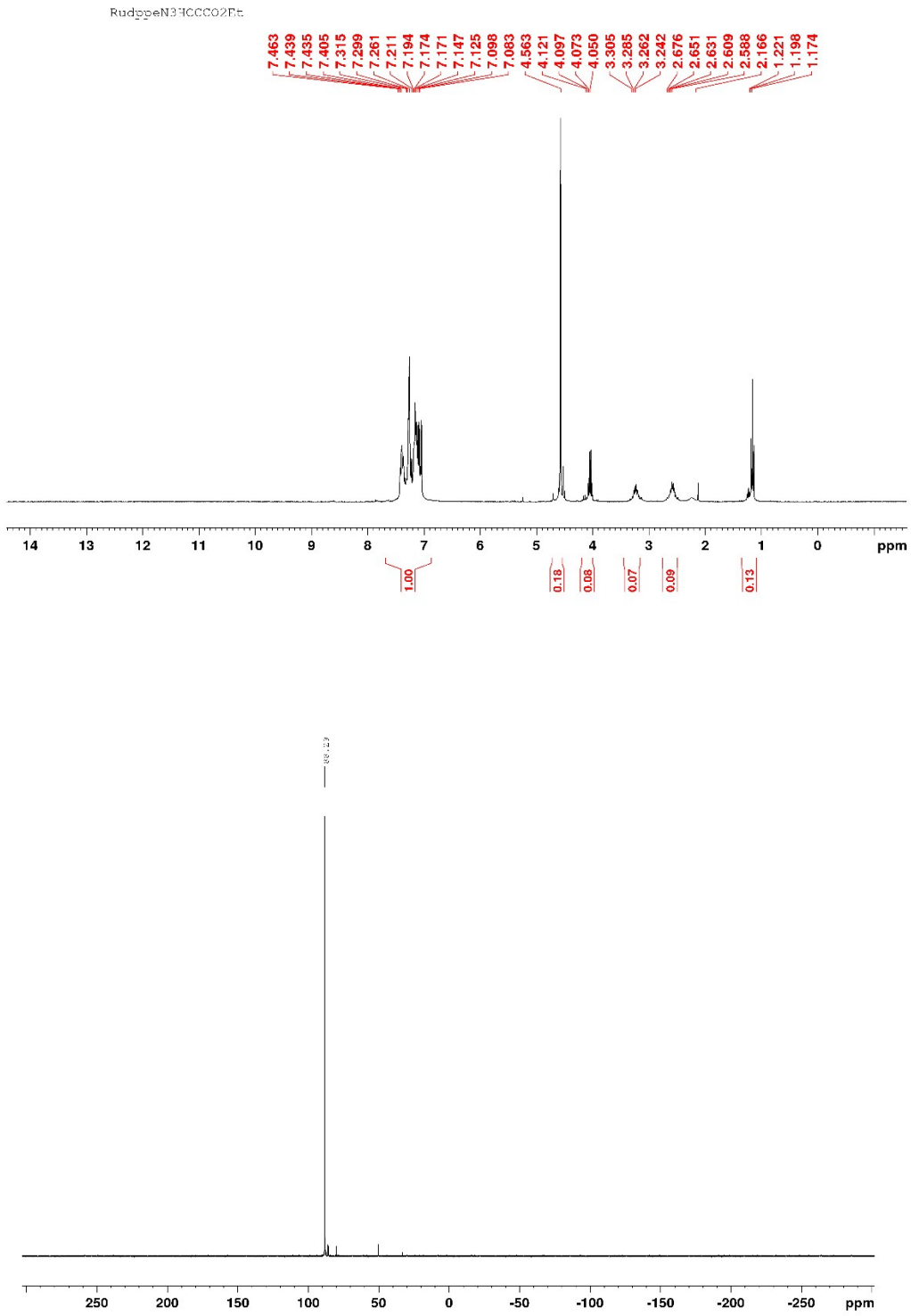
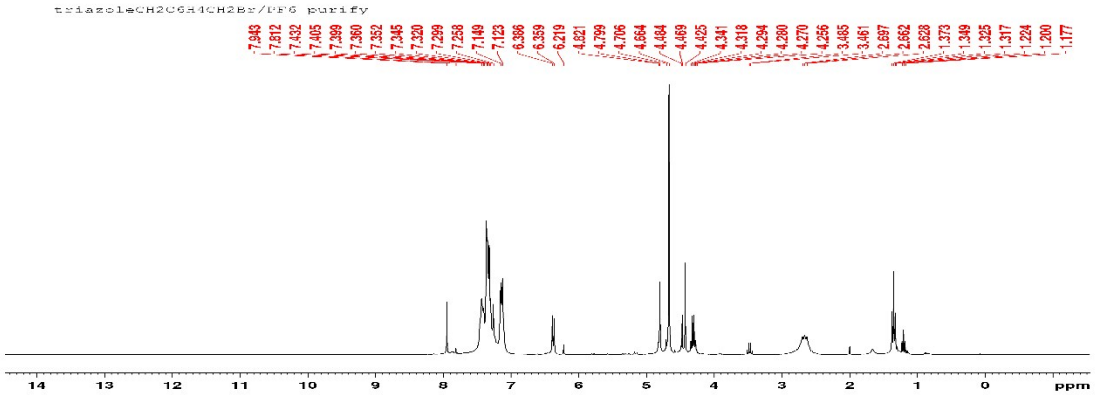
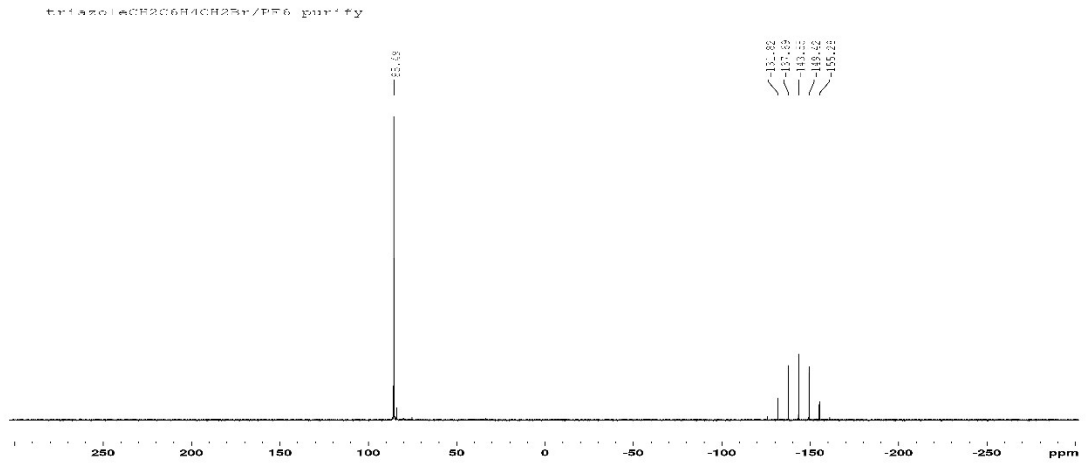


Fig. S2 ^{1}H NMR and ^{31}P NMR spectra of compound **2**.





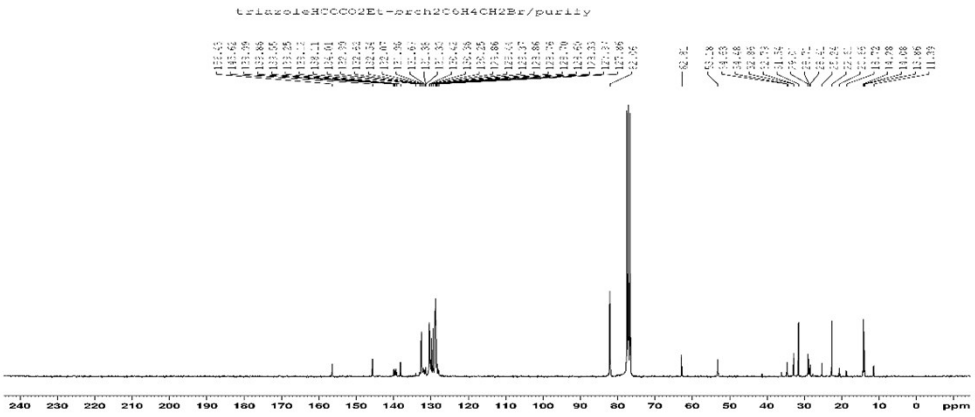


Fig. S3 ^{1}H , ^{31}P and ^{13}C NMR spectra of compound **3a**·[PF_6].

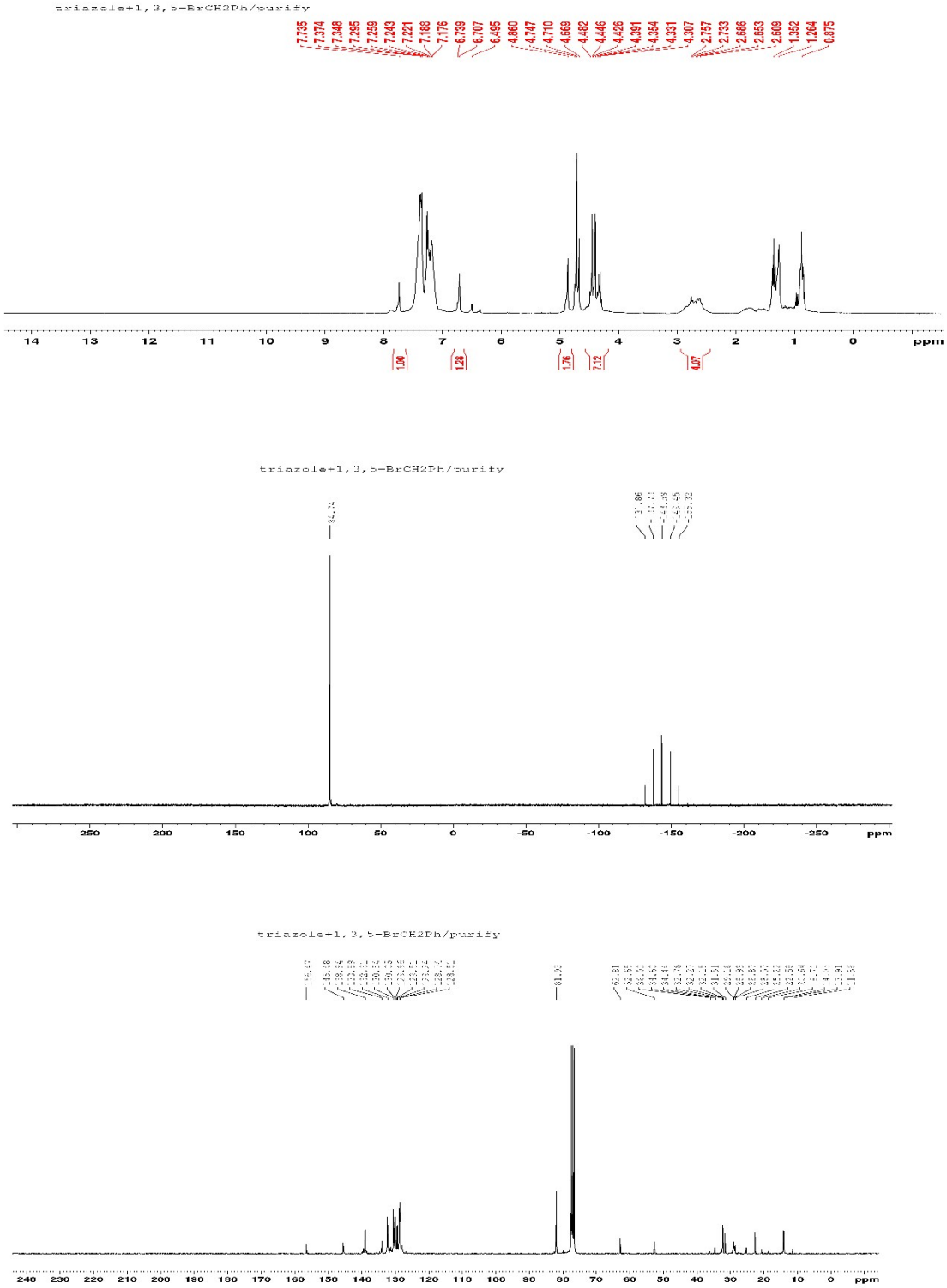
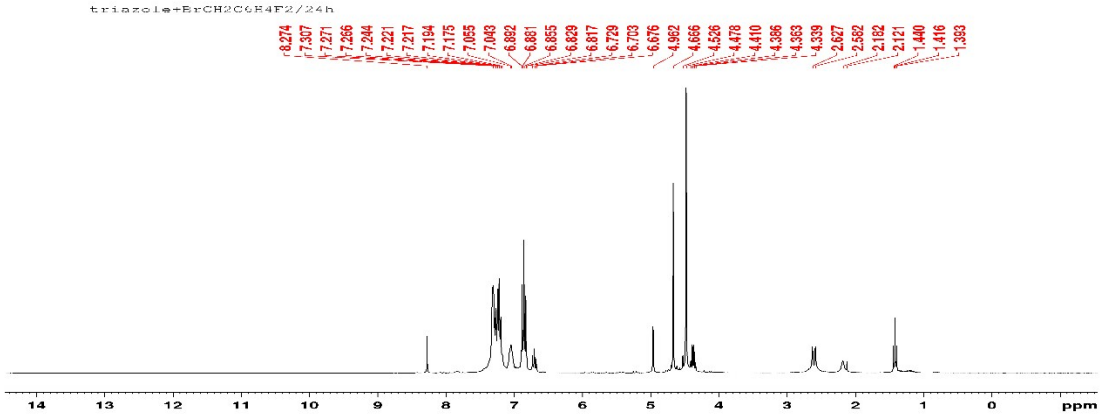
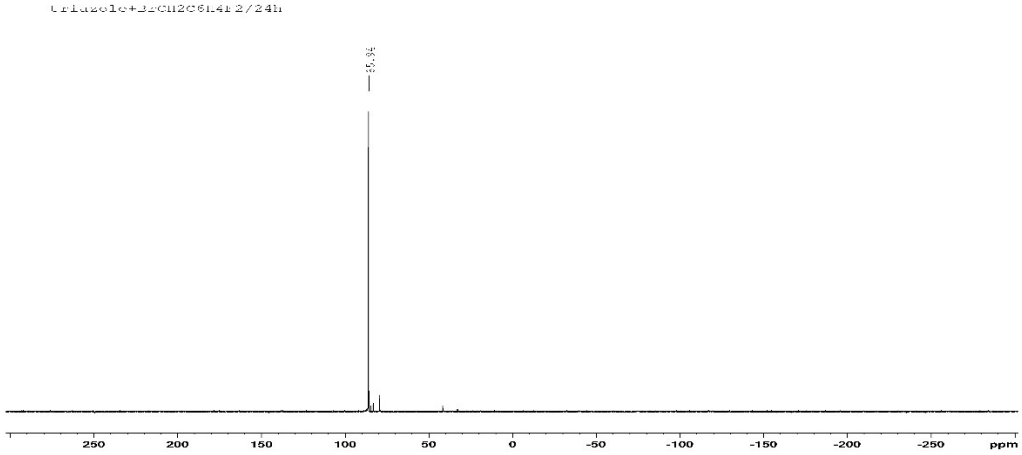


Fig. S4 ^{1}H , ^{31}P and ^{13}C NMR spectra of compound **3b**·[PF_6].





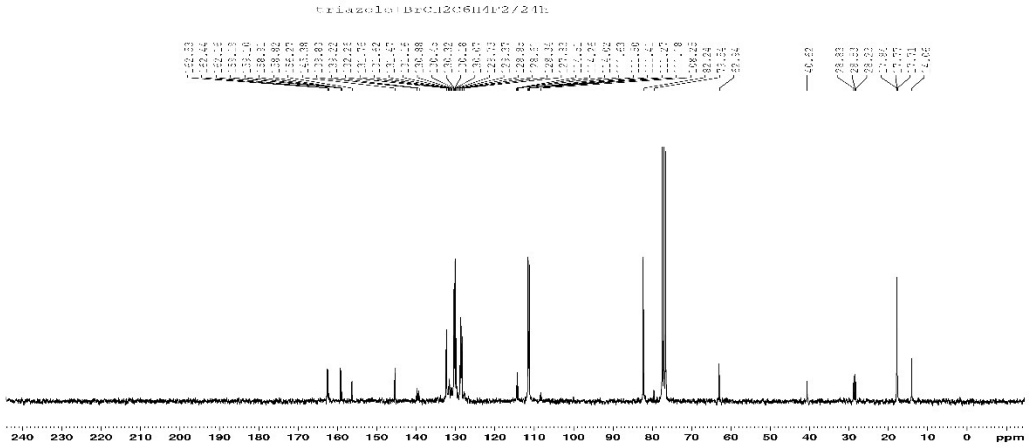
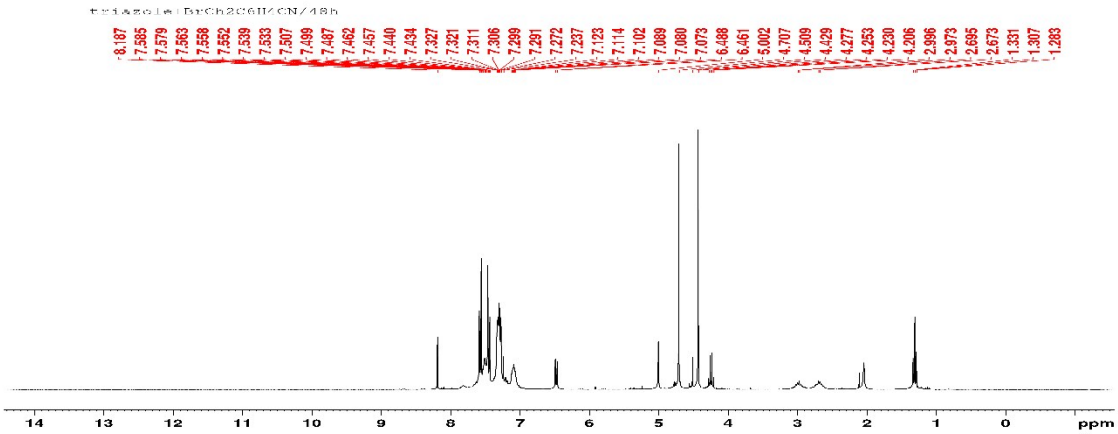
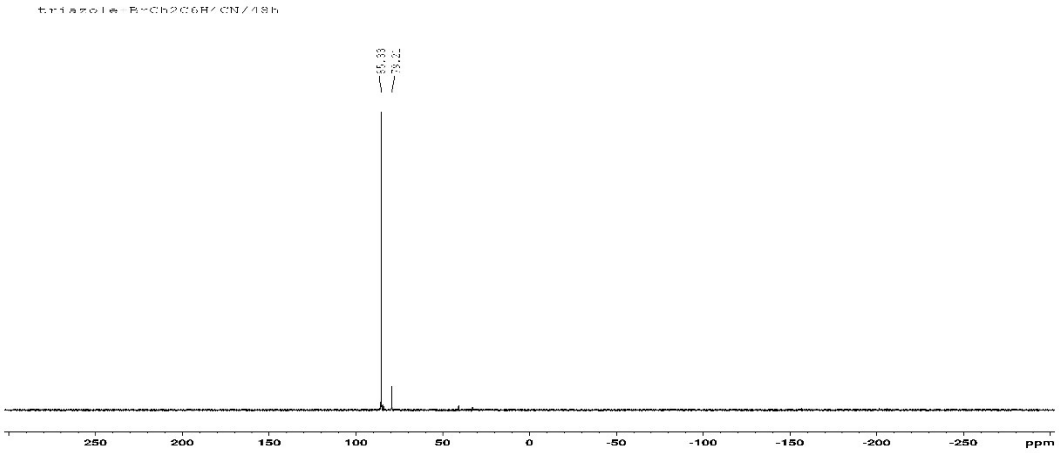


Fig. S5 ^{1}H , ^{31}P and ^{13}C NMR spectra of compound **3c**.





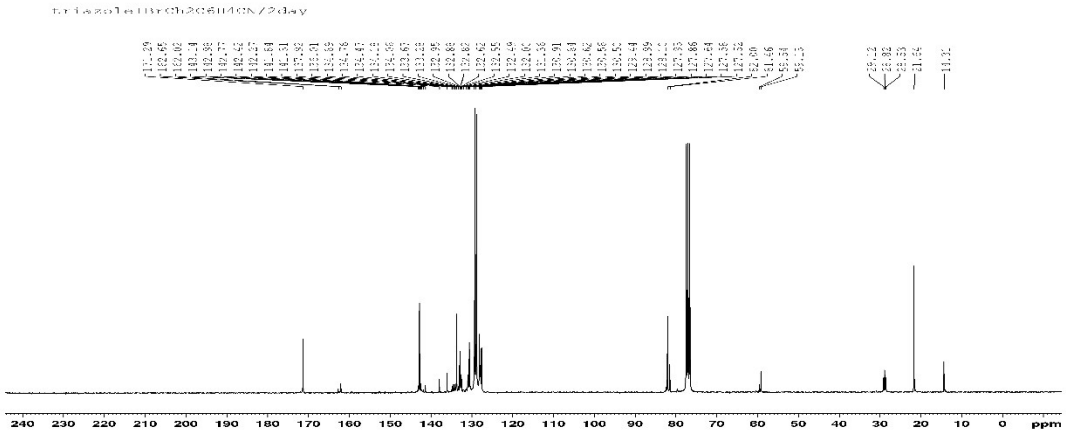
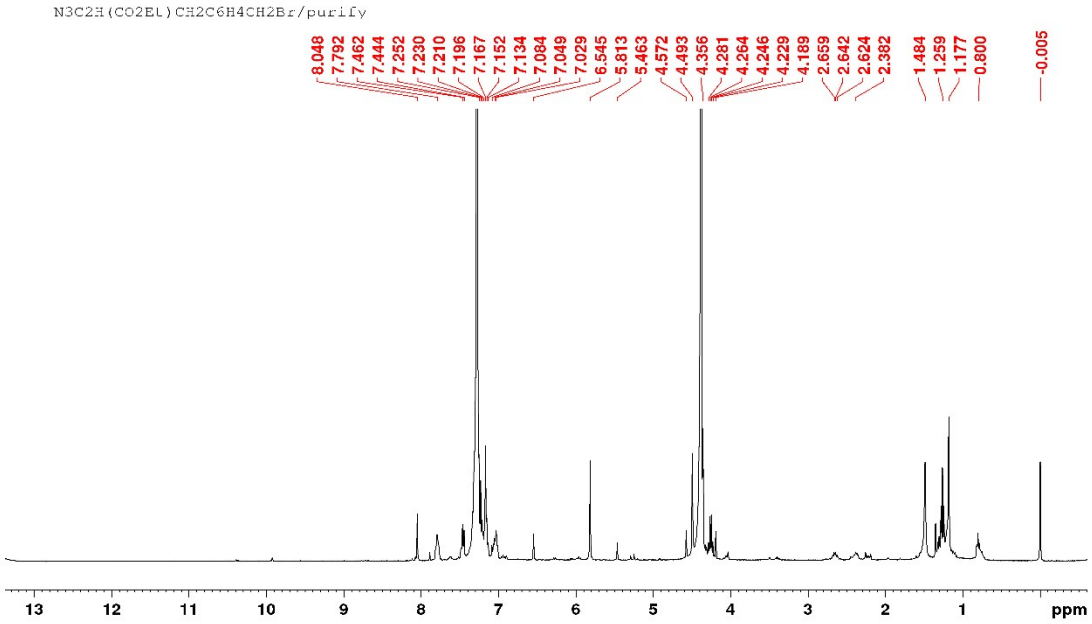


Fig. S6 ^{1}H , ^{31}P and ^{13}C NMR spectra of compound **3d**.



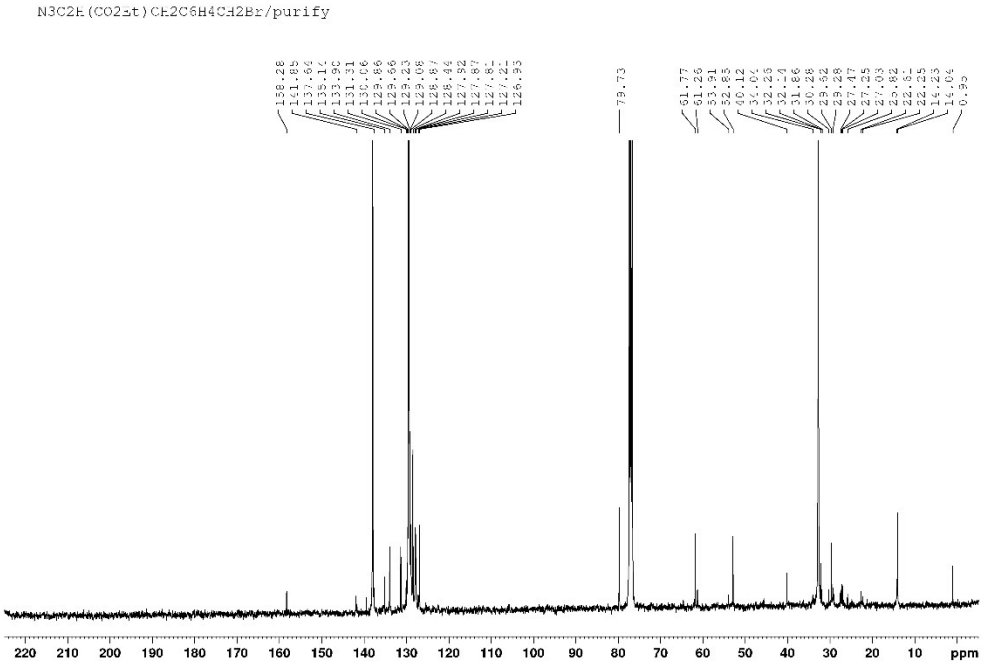
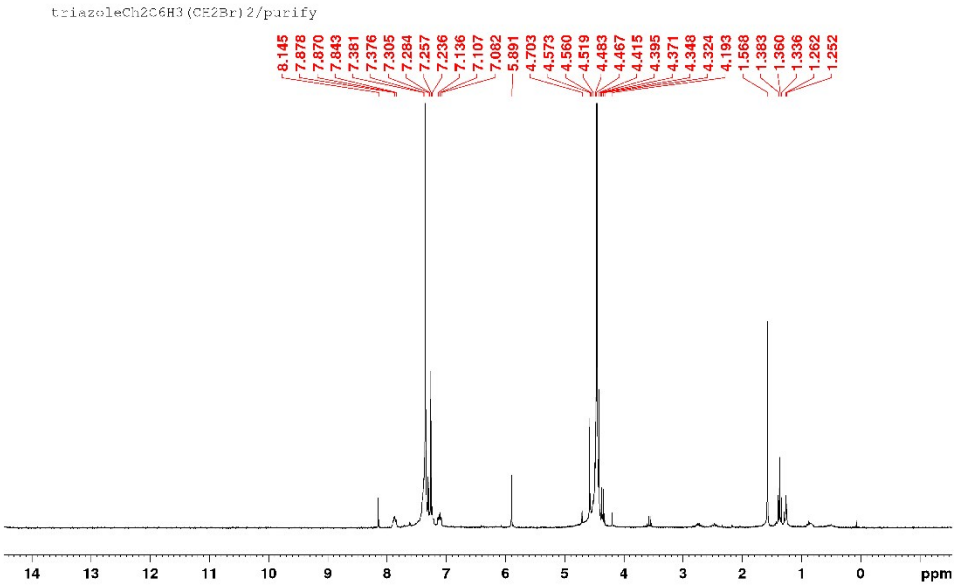


Fig. S7 ^{1}H and ^{13}C NMR spectra of mixture of compound **4a** and excess organic bromide.



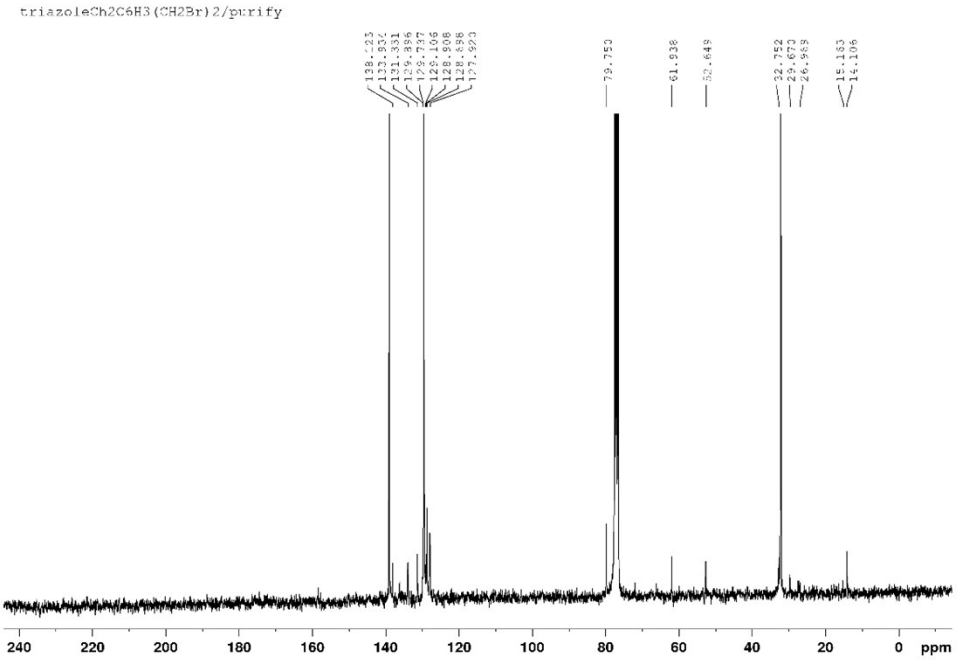
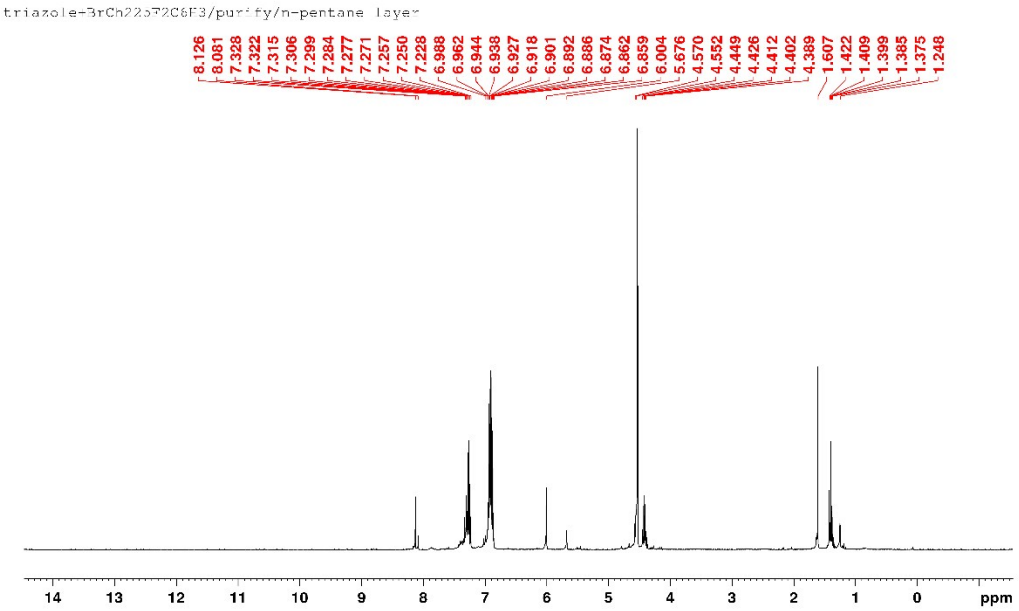


Fig. S8 ^{1}H and ^{13}C NMR spectra of mixture of compound **4b** and excess organic bromide.



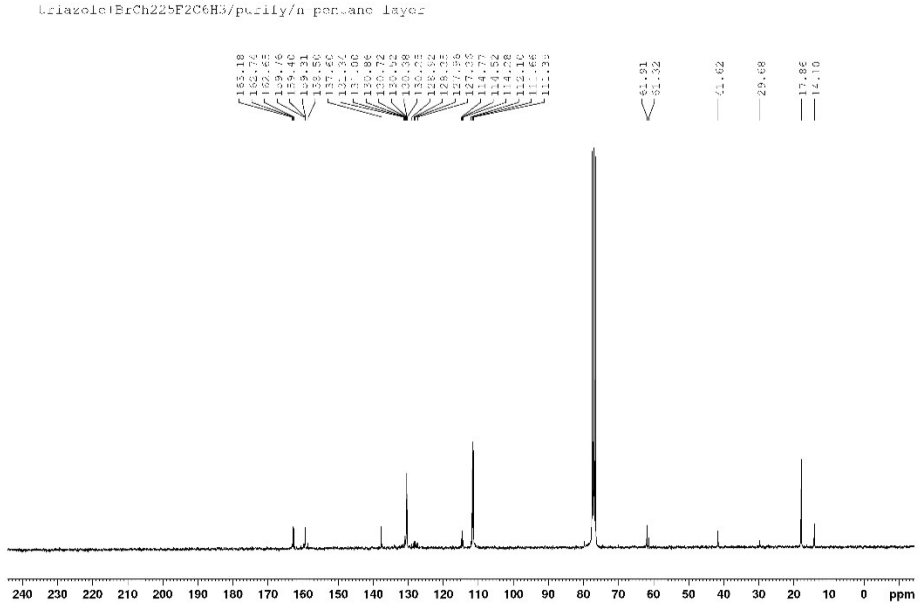
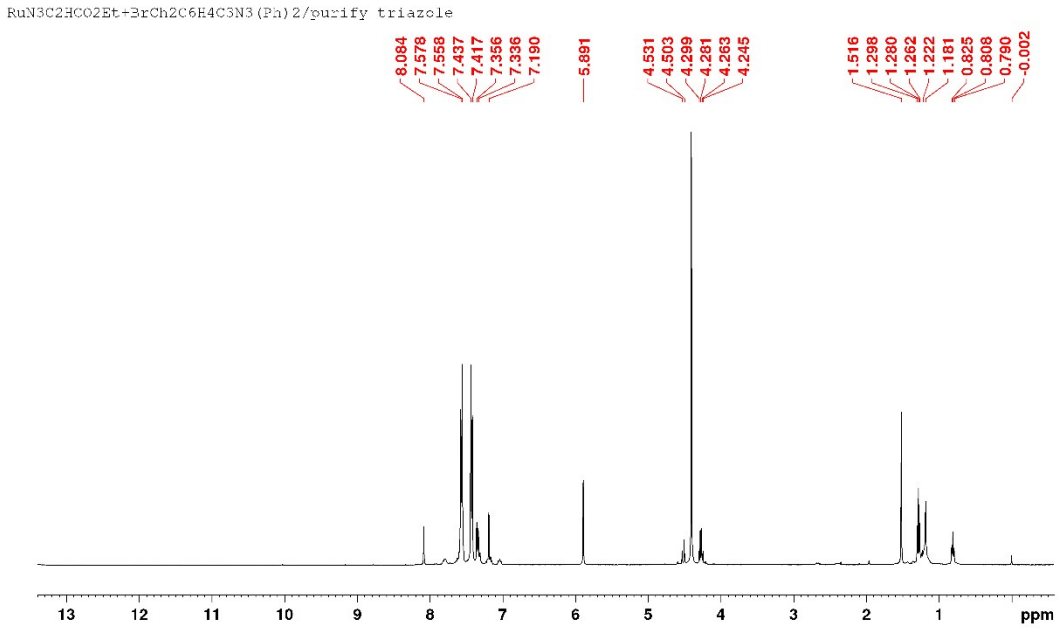


Fig. S9 ^{1}H and ^{13}C NMR spectra of mixture of compound **4c** and excess organic bromide.



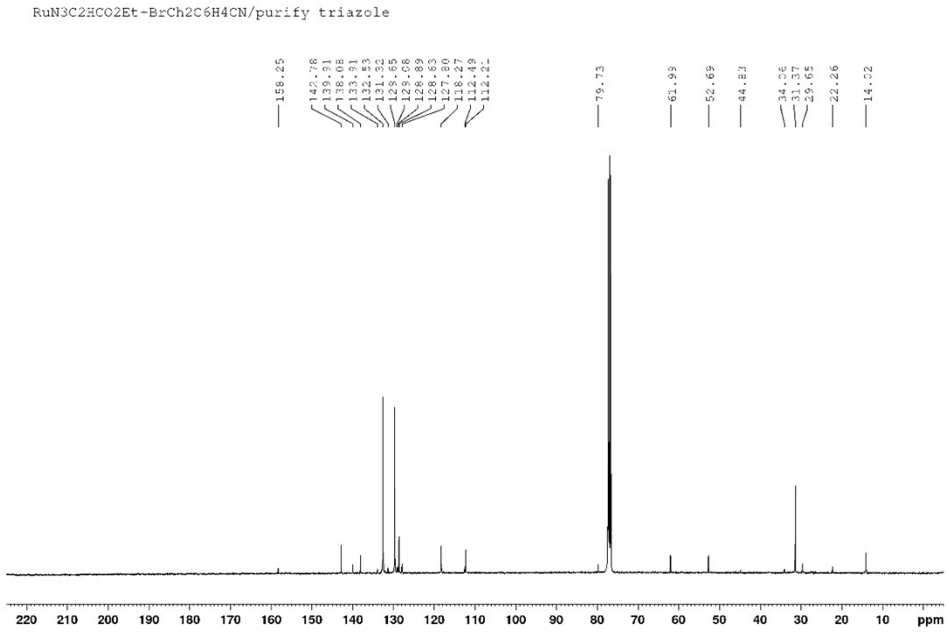
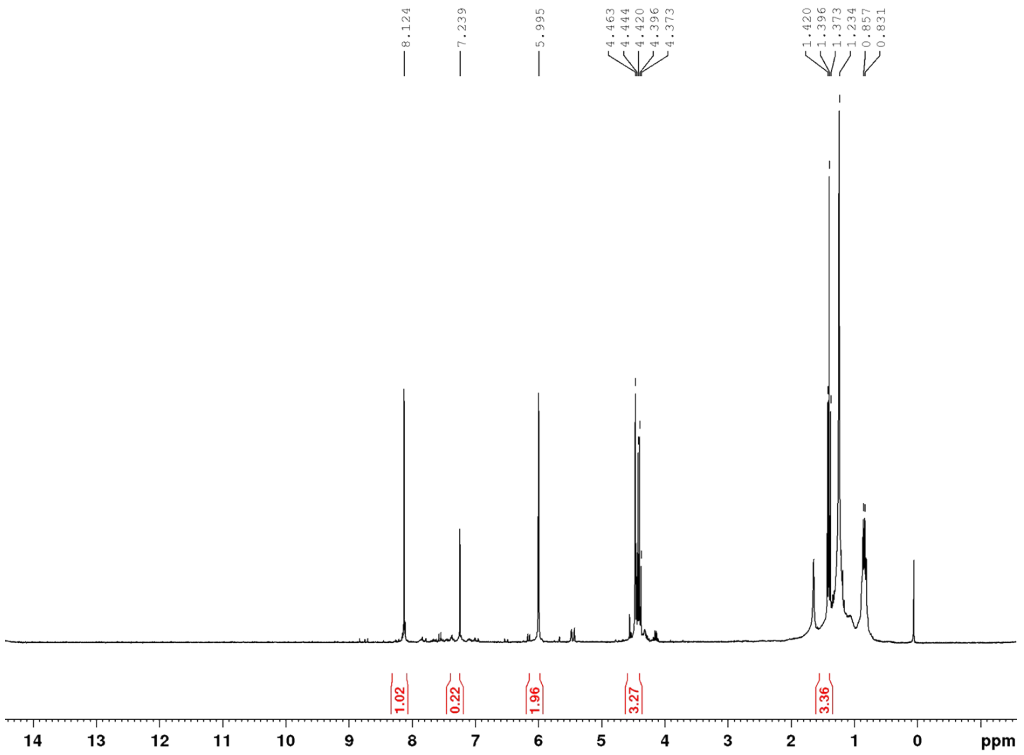


Fig. S10 ^{1}H and ^{13}C NMR spectra of mixture of compound **4d** and excess organic bromide.



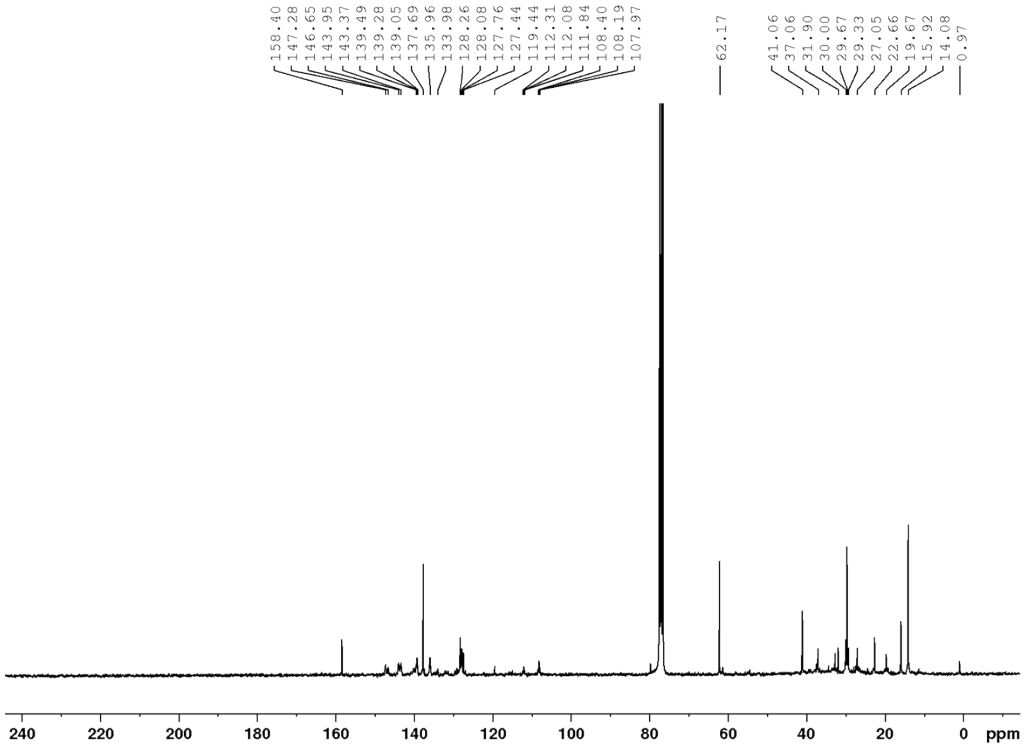


Fig. S11 ^{1}H and ^{13}C NMR spectra of mixture of compound **4e** and decomposed organic fragments.

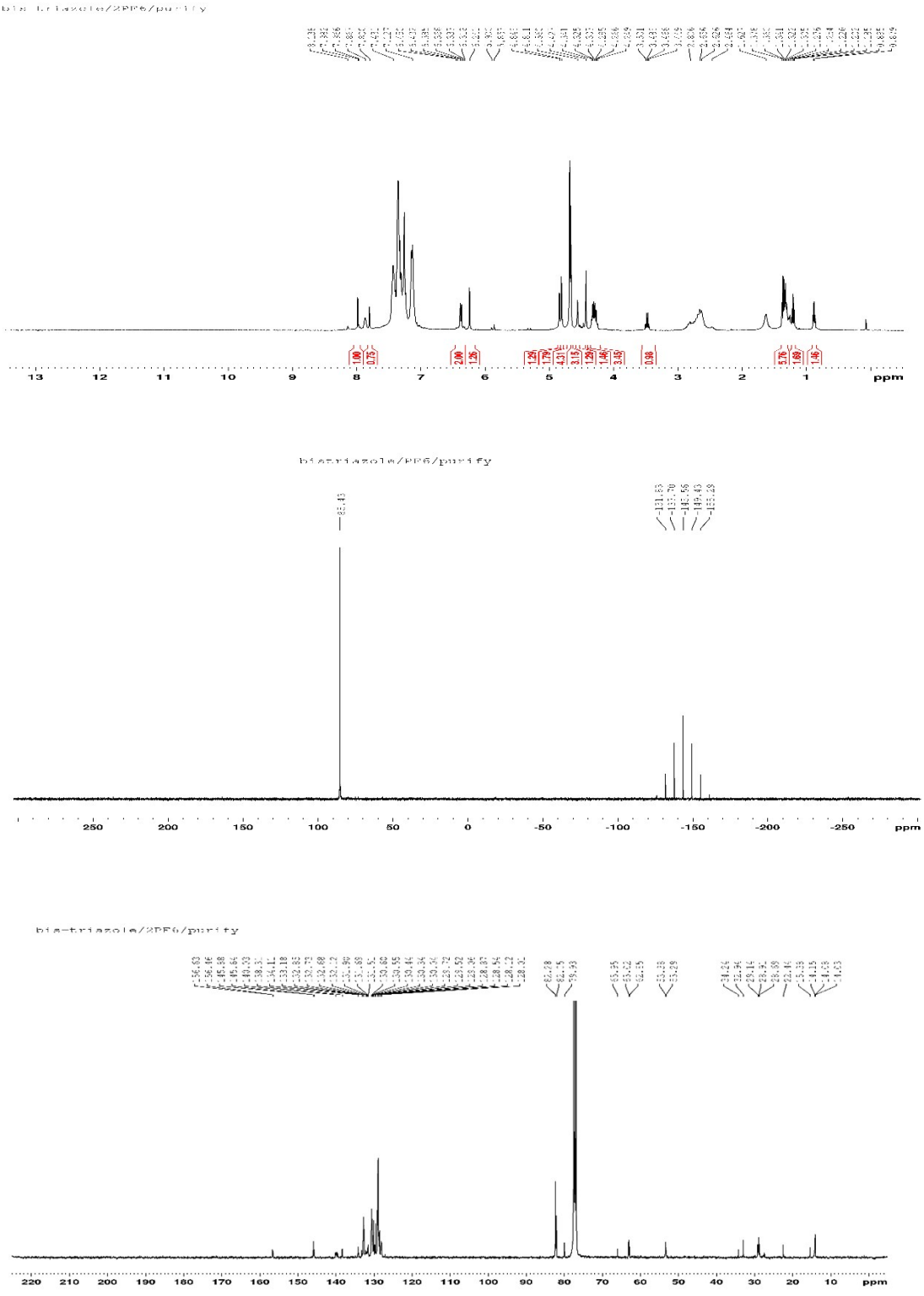
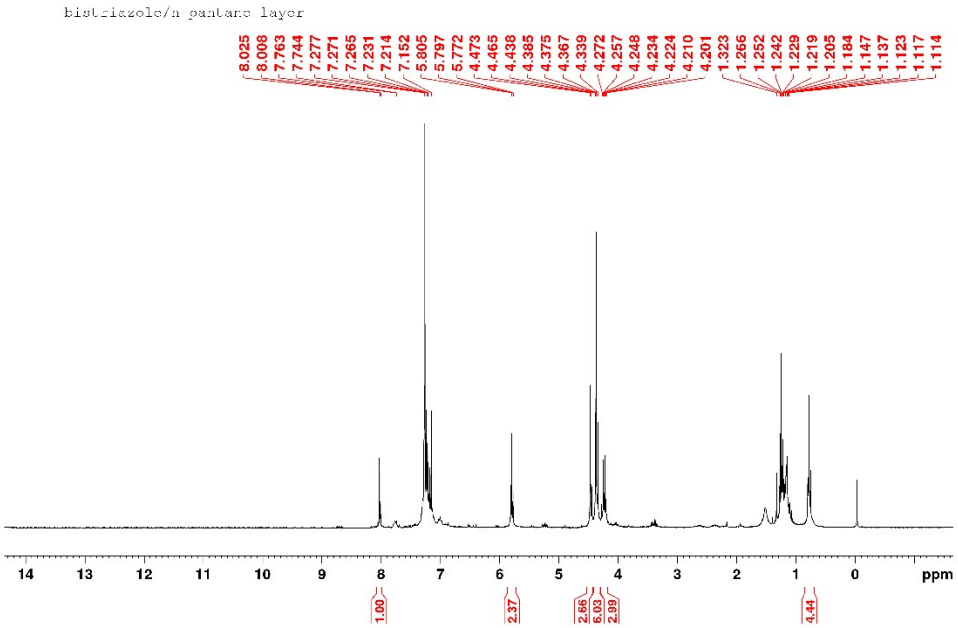


Fig. S12 ^{1}H , ^{31}P and ^{13}C NMR spectra of compound **5**·$[PF_6]_2$.



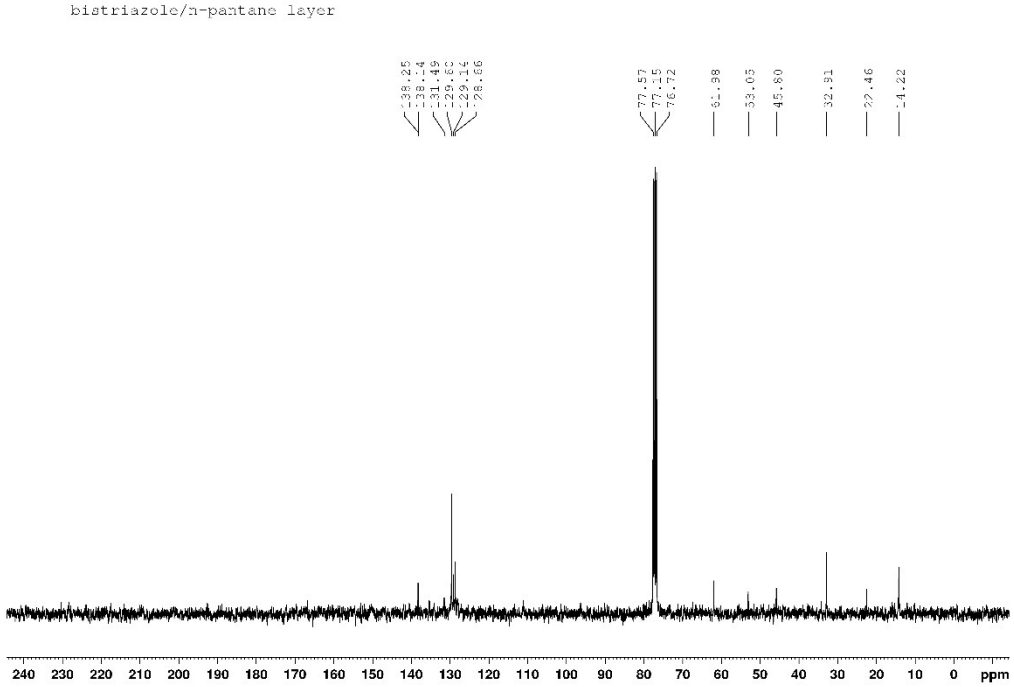


Fig. S13 ^{1}H and ^{13}C NMR spectra of compound **6**.

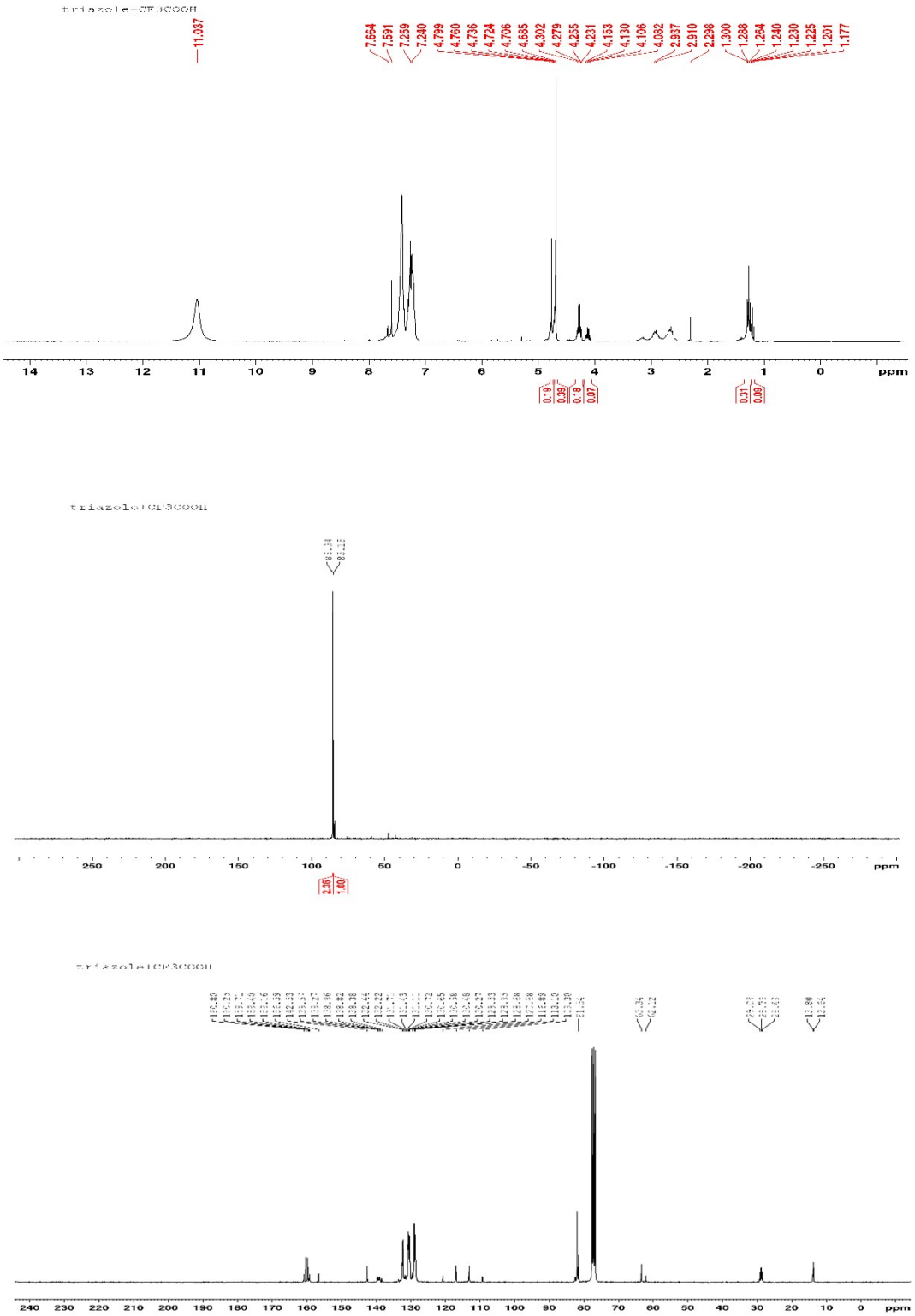


Fig. S14 ^{1}H , ^{31}P and ^{13}C NMR spectra of compound **7**.