

Supplementary Material

Synthesis and antimycobacterial evaluation of phosphohydroxamic acid double prodrugs

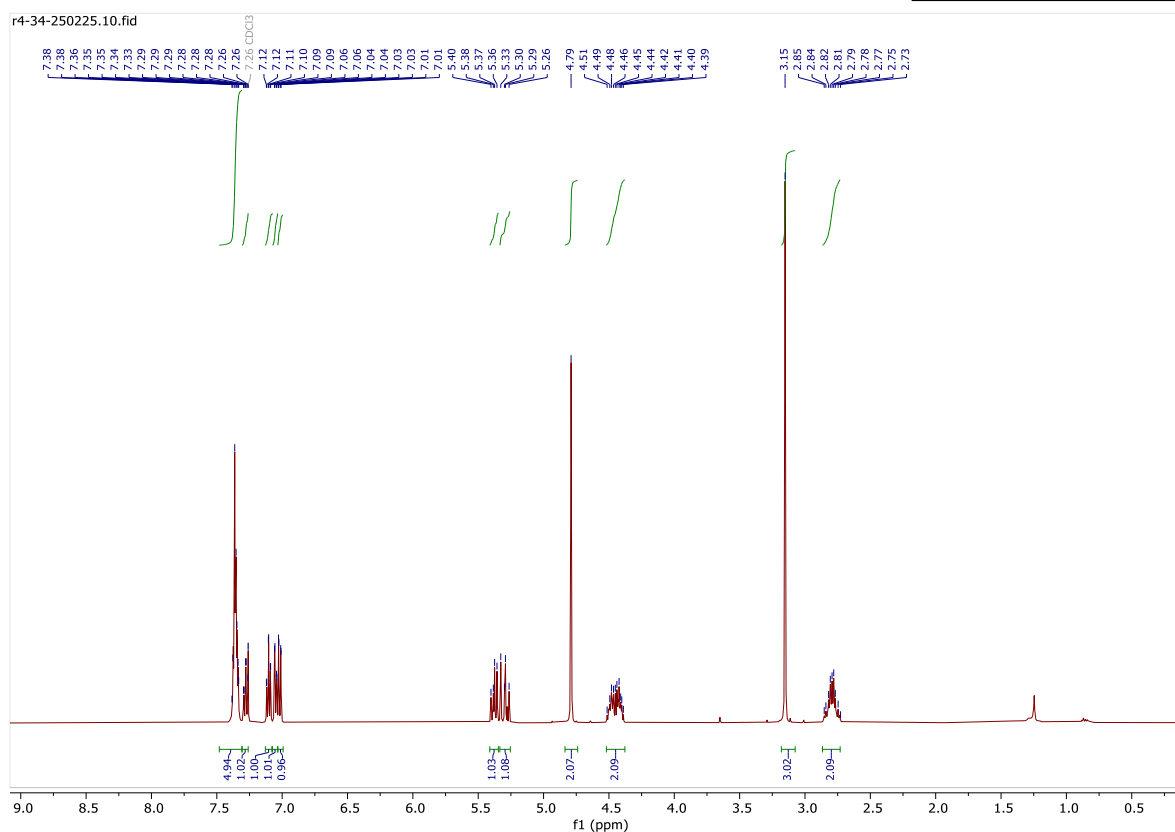
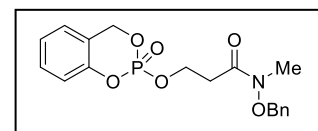
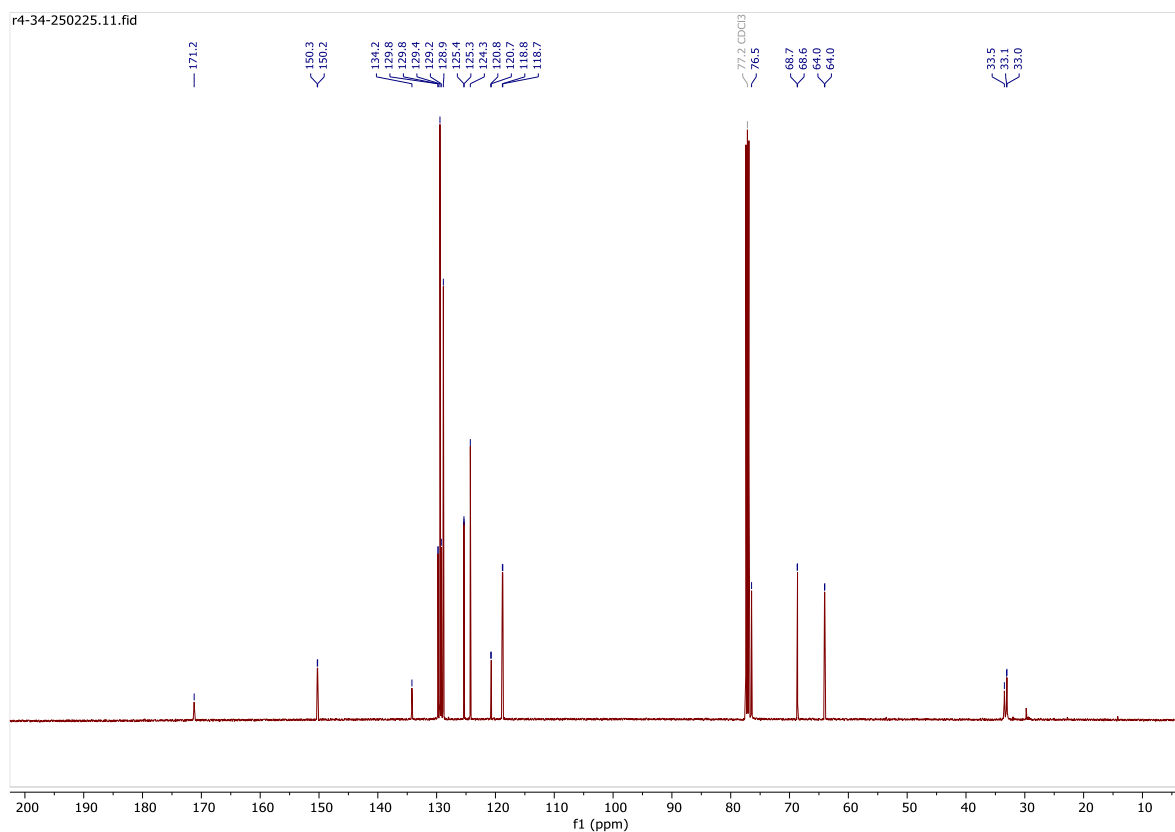
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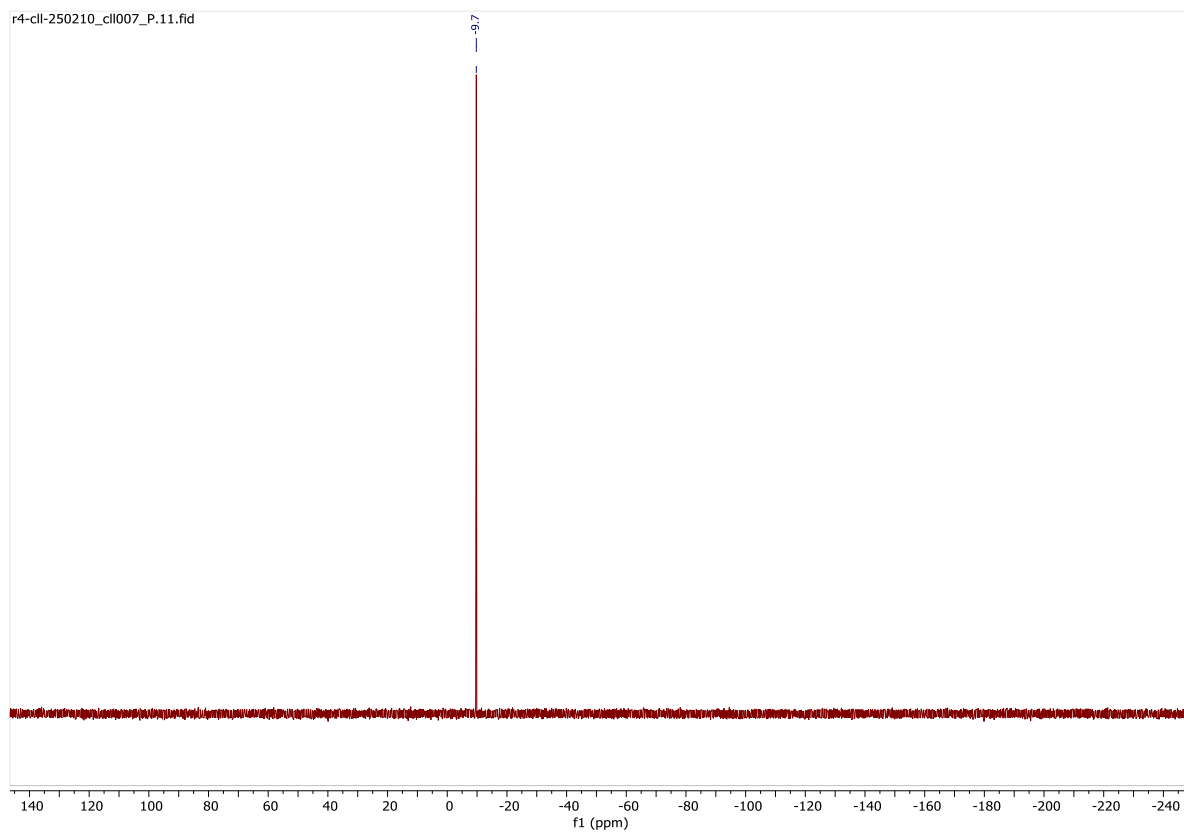
Email: grosdemange@unistra.fr

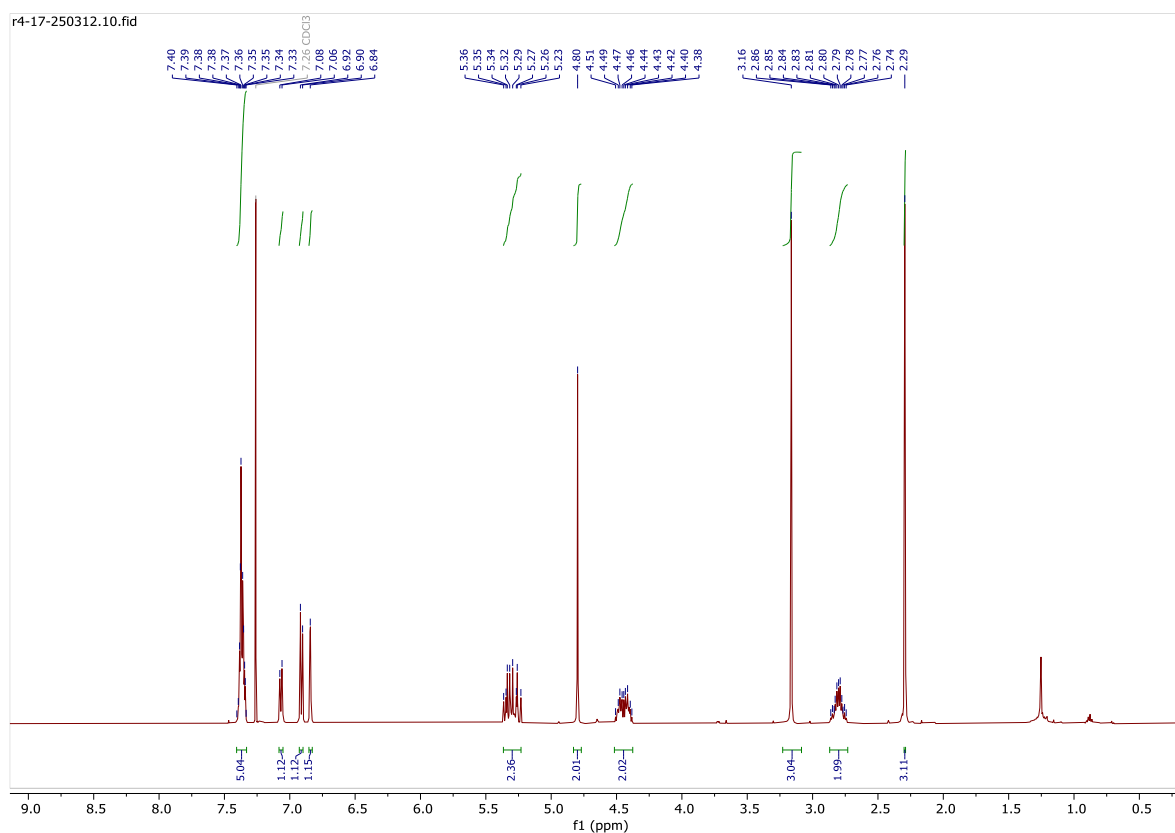
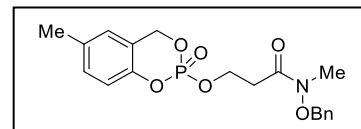
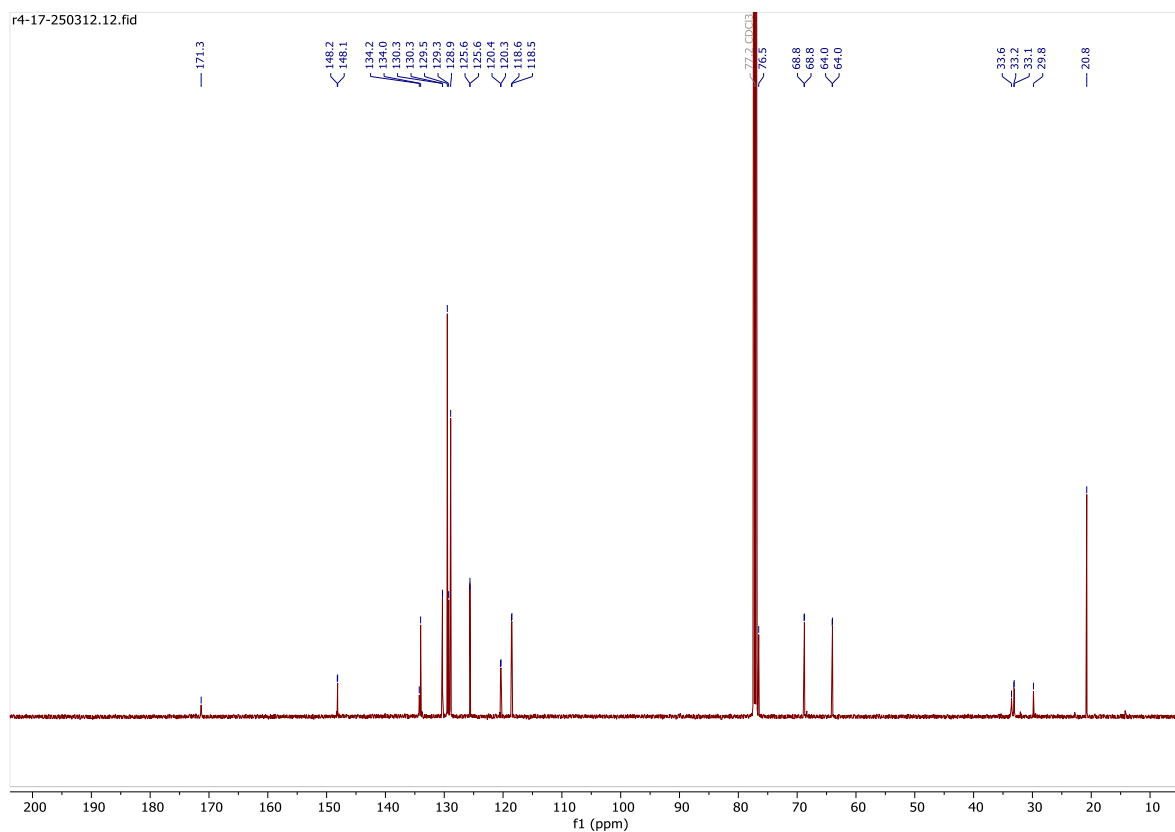
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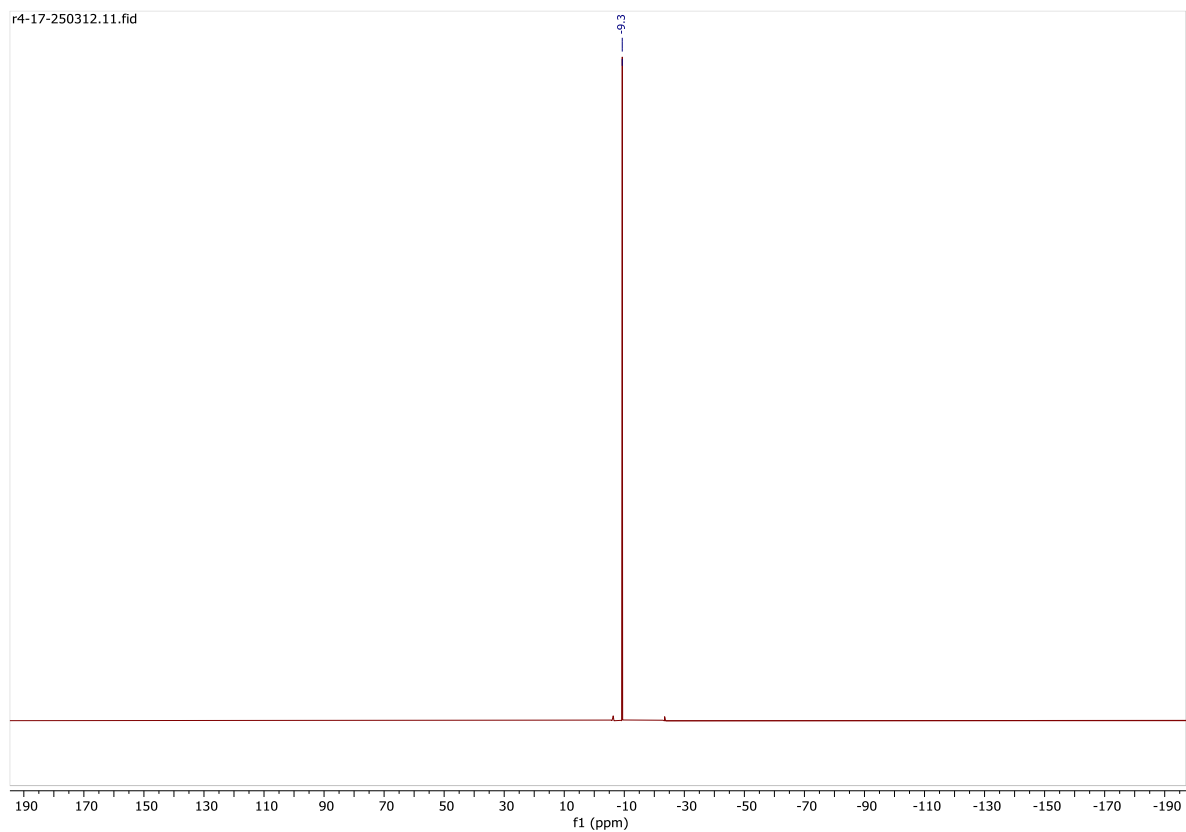
***N*-(Benzyloxy)-*N*-methyl-3-((2-oxido-4H-benzo[*d*][1,3,2]dioxaphosphinin-2-yl)oxy)propanamide (7a)**¹H NMR spectrum of **7a** (500 MHz, CDCl₃)¹³C{¹H} NMR spectrum of **7a** (125.8 MHz, CDCl₃)

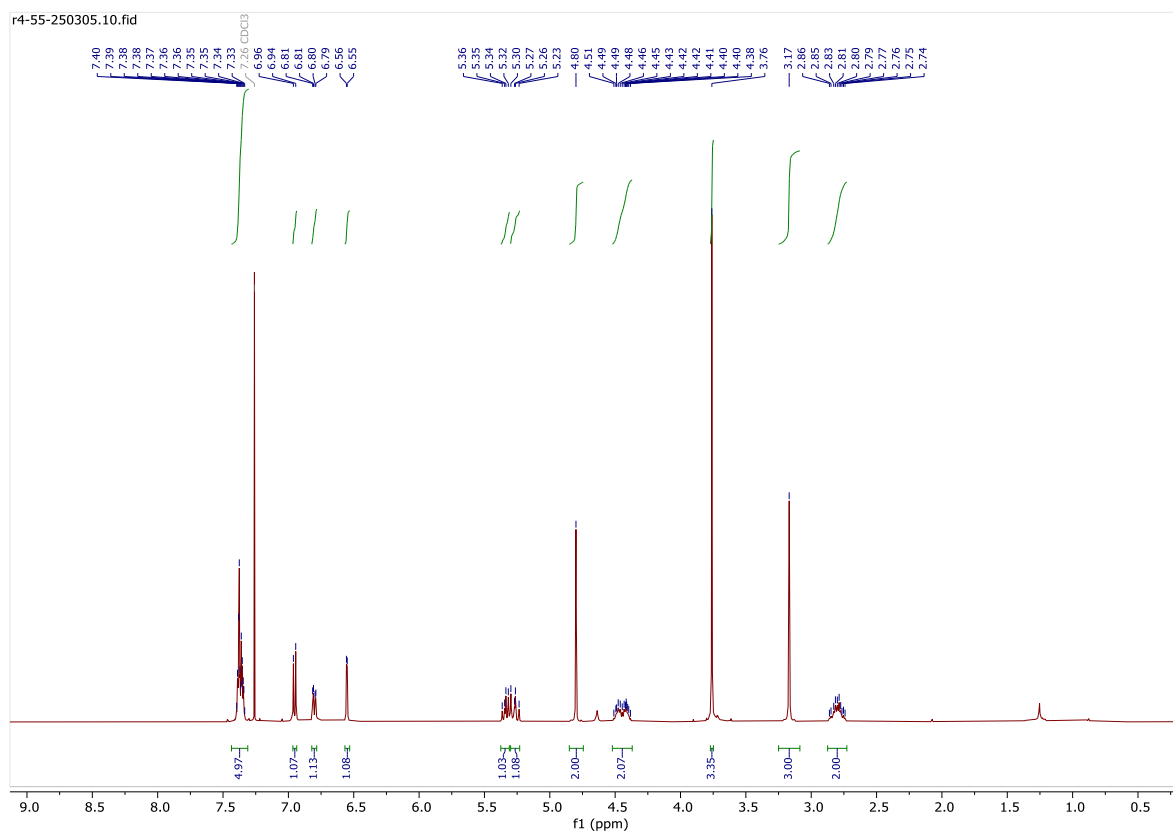
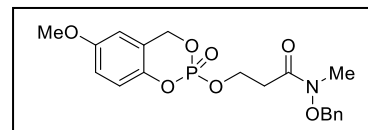
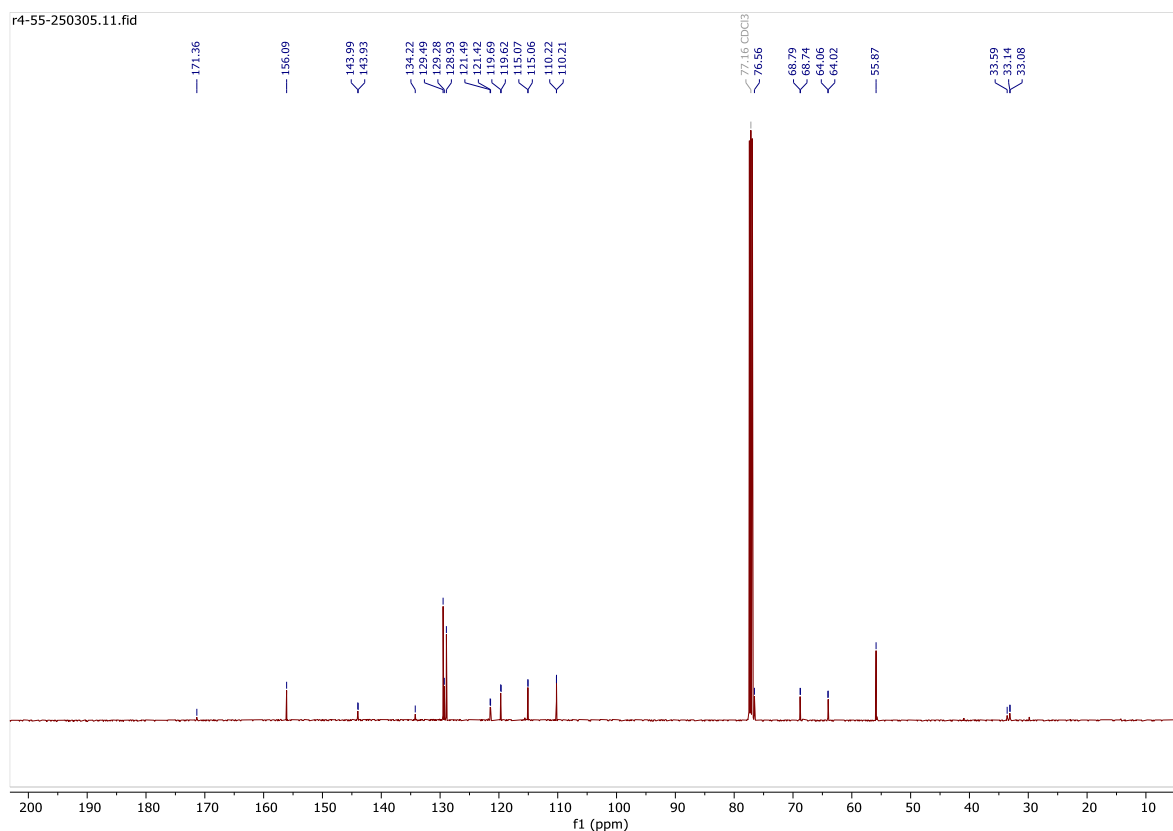
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7a** (162 MHz, CDCl_3)



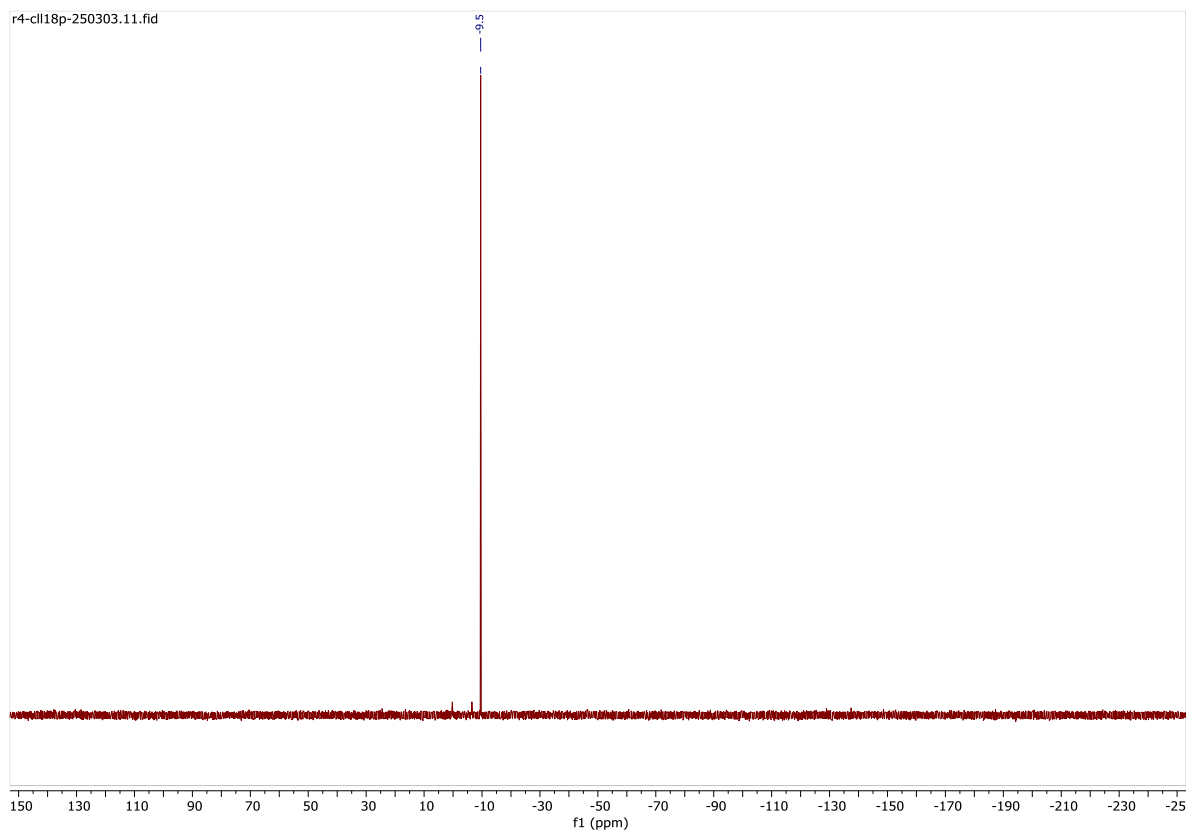
***N*-(Benzyloxy)-*N*-methyl-3-((6-methyl-2-oxido-4*H*-benzo[*d*][1,3,2]dioxaphosphinin-2-yl)oxy)propenamide (7b)**¹H NMR spectrum of **7b** (500 MHz, CDCl₃)¹³C{¹H} NMR spectrum of **7b** (125.8 MHz, CDCl₃)

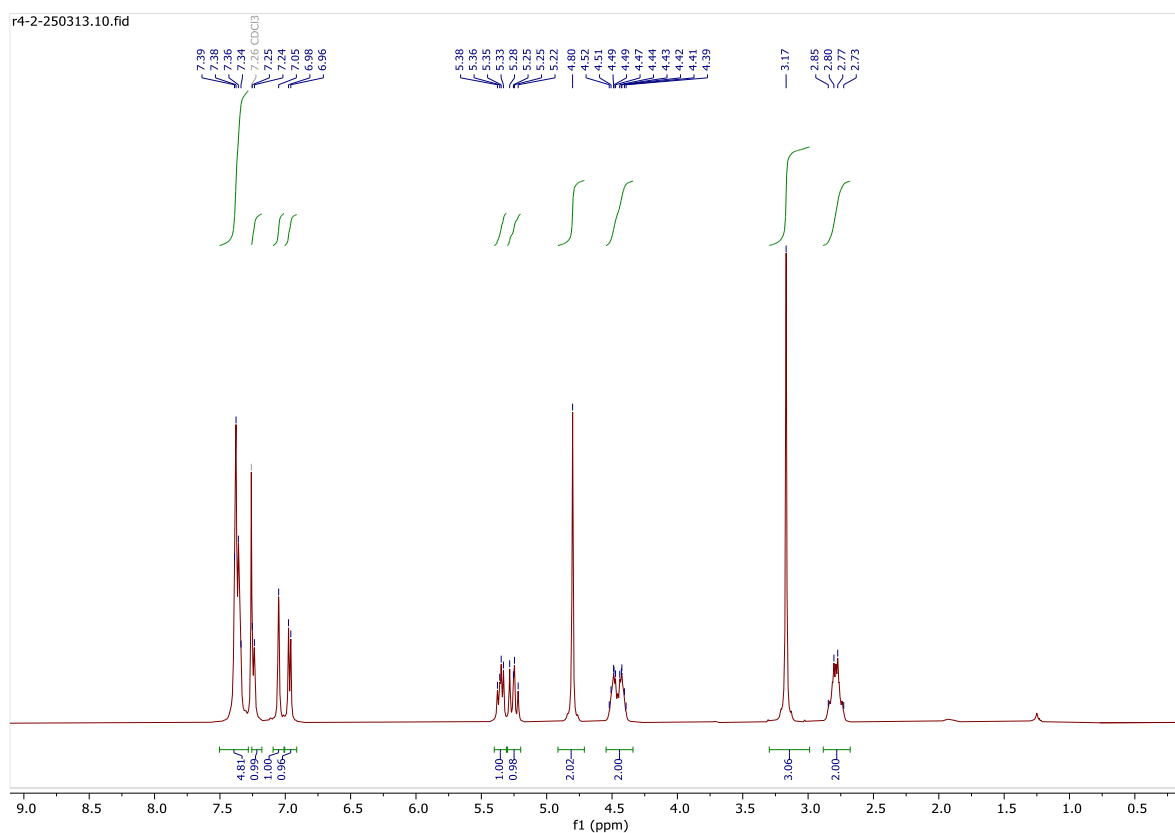
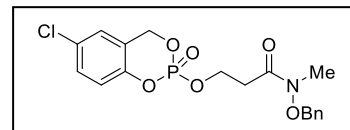
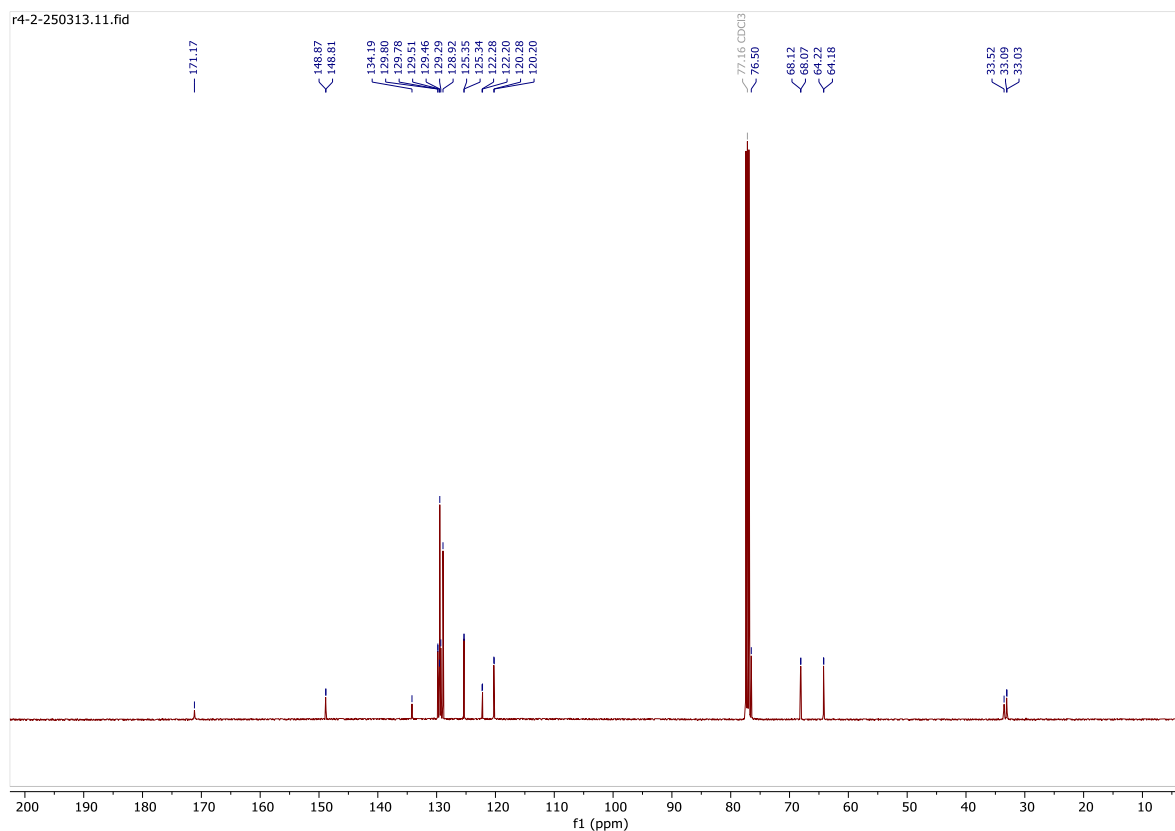
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7b** (202.0 MHz, CDCl_3)



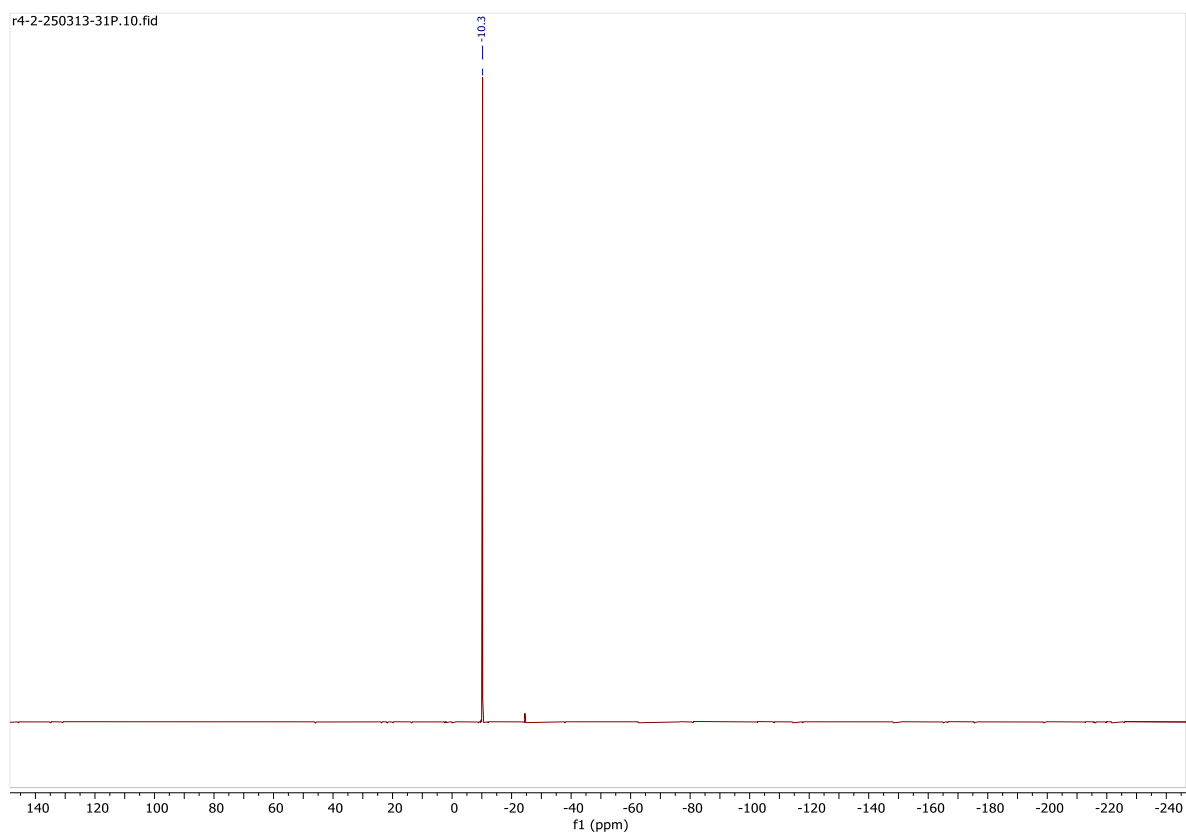
***N*-(Benzyloxy)-*N*-methyl-3-((6-methoxy-2-oxido-4*H*-benzo[*d*][1,3,2]dioxaphosphinin-2-yl)oxy)propenamide (7c)**¹H NMR spectrum of **7c** (500 MHz, CDCl₃)¹³C{¹H} NMR spectrum of **7c** (125.8 MHz, CDCl₃)

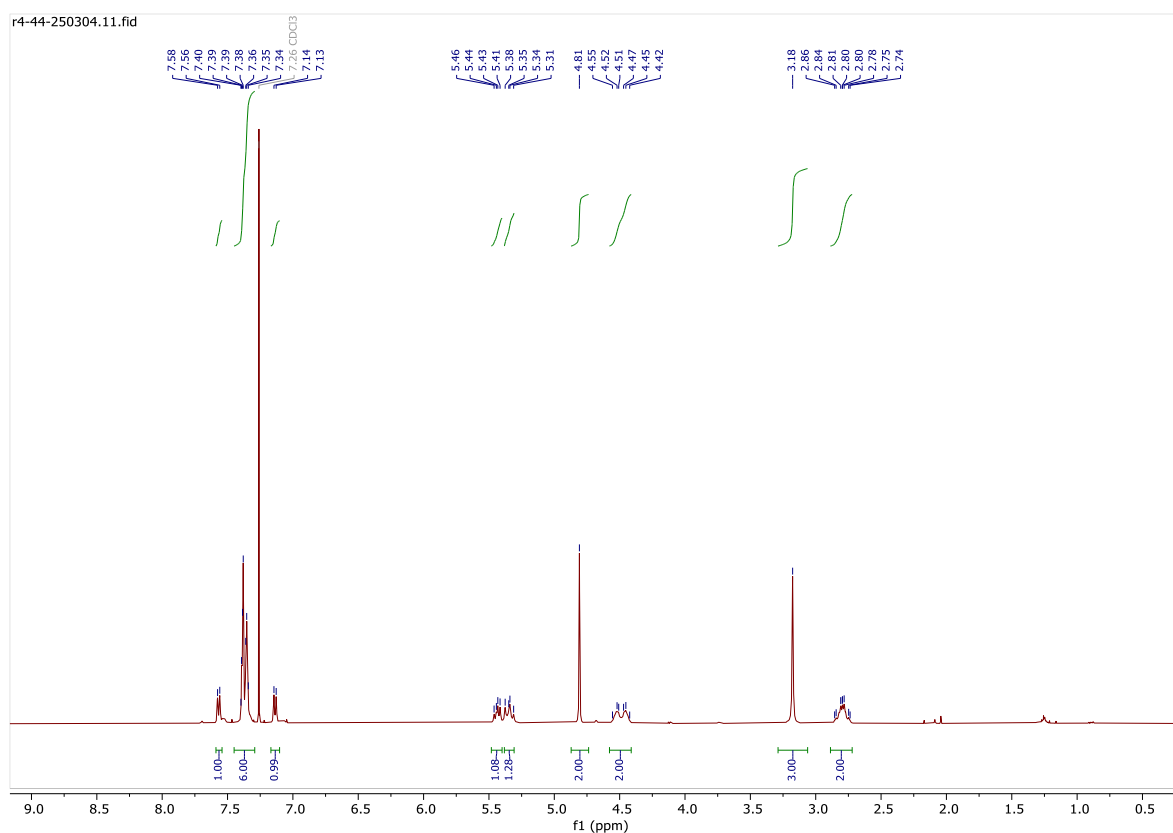
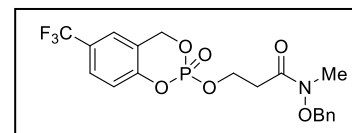
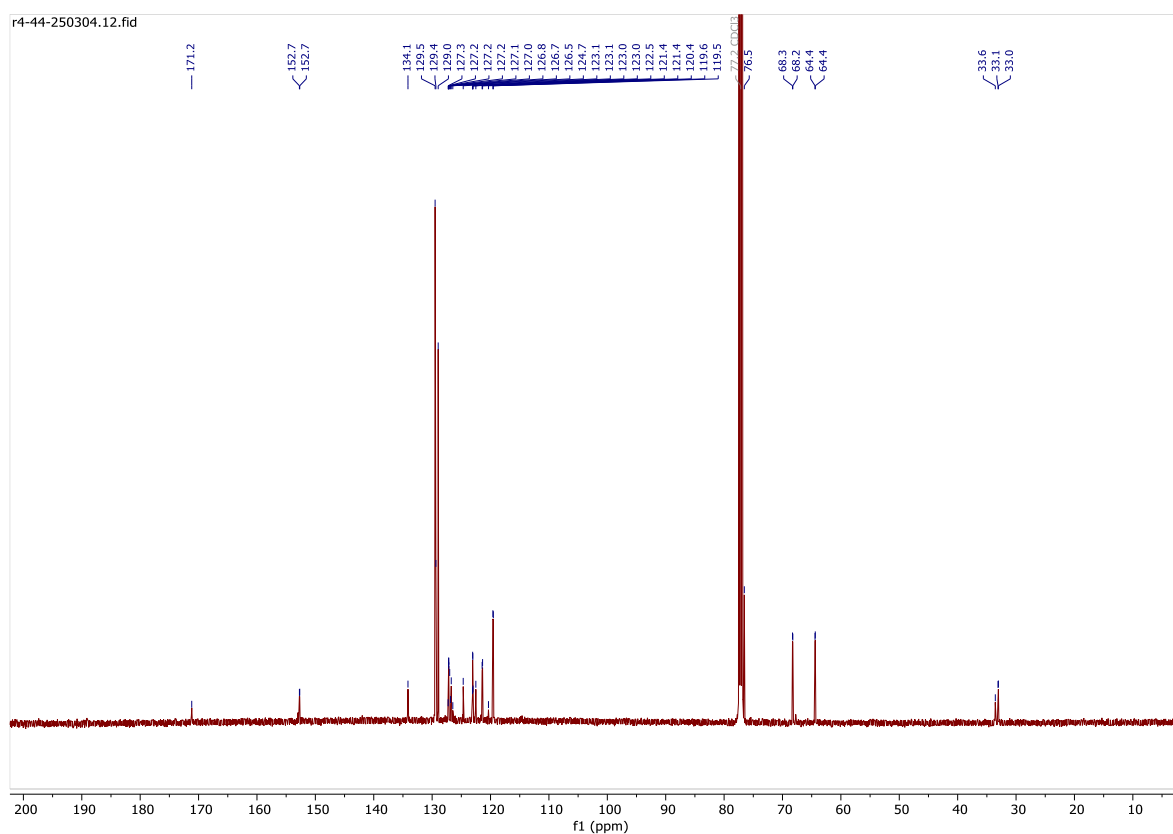
$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7c** (162 MHz, CDCl_3)



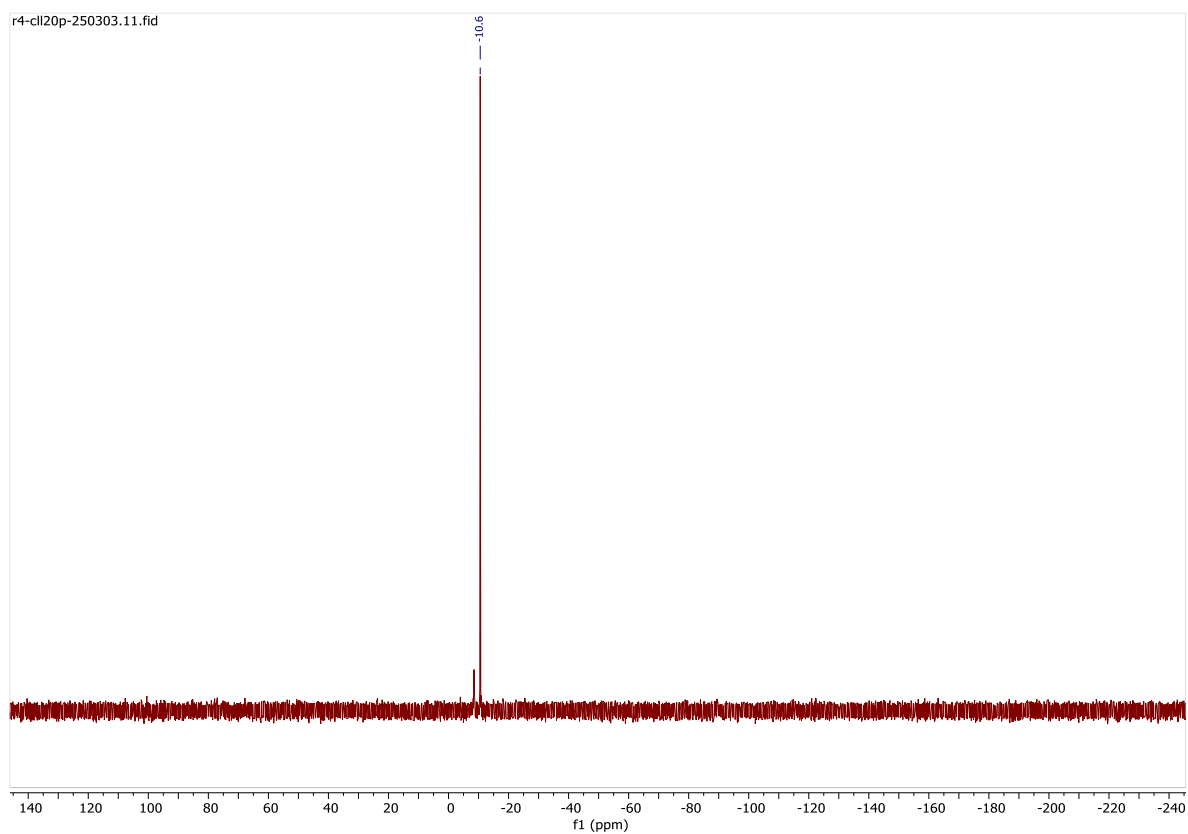
***N*-(Benzyloxy)-*N*-methyl-3-((6-chloro-2-oxido-4*H*-benzo[*d*][1,3,2]dioxaphosphinin-2-yl)oxy)propenamide (7d)**¹H NMR spectrum of **7d** (500 MHz, CDCl₃)¹³C{¹H} NMR spectrum of **7d** (125.8 MHz, CDCl₃)

$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7d** (121.5 MHz, CDCl_3)

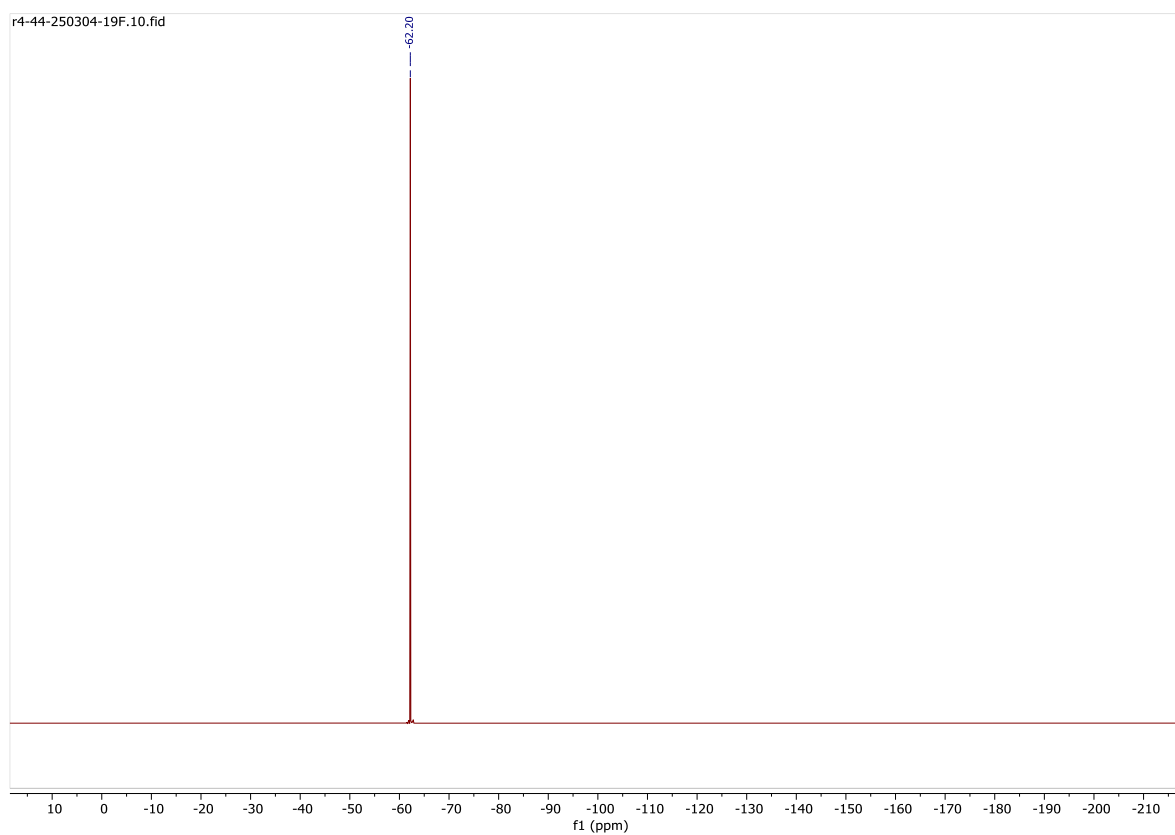


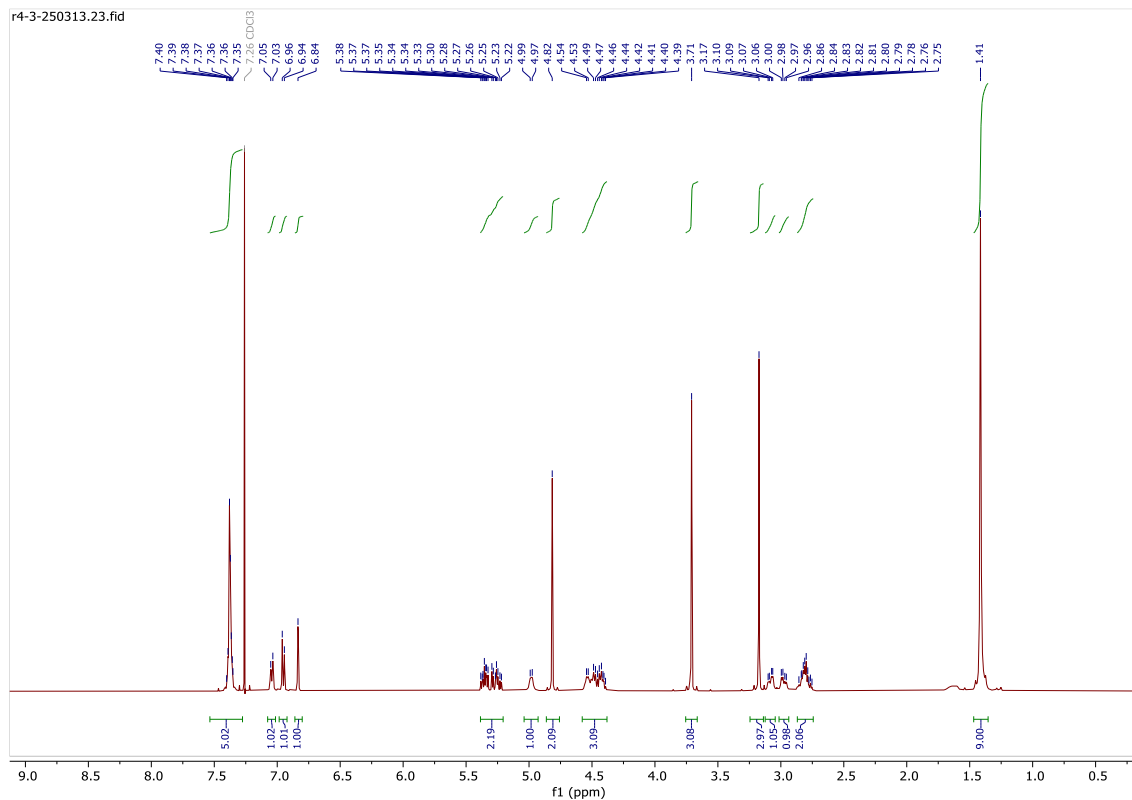
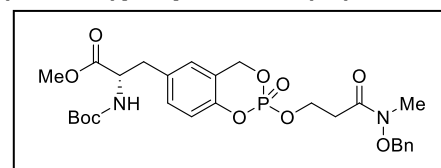
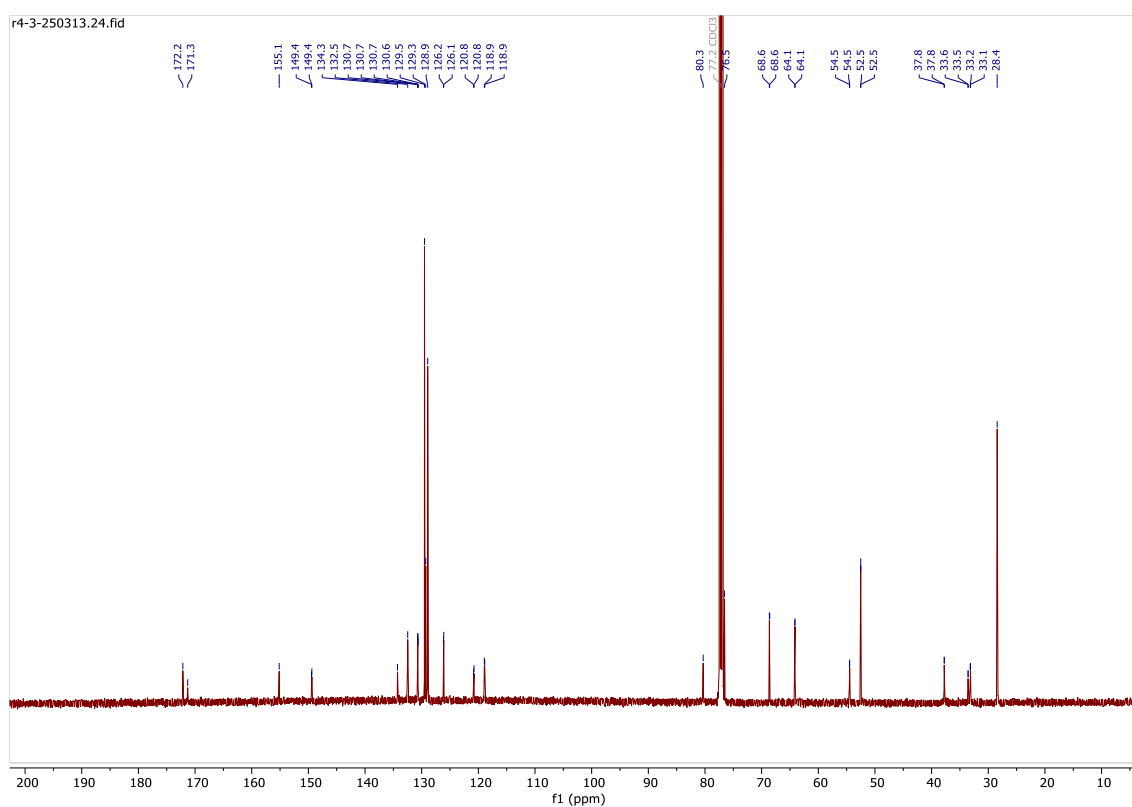
***N*-(Benzyloxy)-*N*-methyl-3-((6-trifluoromethyl-2-oxido-4H-benzo[*d*][1,3,2]dioxaphosphinin-2-yl)oxy)propenamide (7e)**¹H NMR spectrum of 7e (500 MHz, CDCl₃)¹³C{¹H} NMR spectrum of 7e (125.8 MHz, CDCl₃)

$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7e** (162.0 MHz, CDCl_3)



$^{19}\text{F}\{^1\text{H}\}$ NMR spectrum of **7e** (282.4 MHz, CDCl_3)



L-Methyl 3-(2-(3-((benzyloxy)(methyl)amino)-3-oxopropoxy)-2-oxido-4H-benzo[d][1,3,2]dioxaphosphinin-6-yl)-2-((tert-butoxycarbonyl)amino)propanoate (7f)¹H NMR spectrum of **7f** (500 MHz, CDCl₃)¹³C{¹H} NMR spectrum of **7f** (125.8 MHz, CDCl₃)

$^{31}\text{P}\{^1\text{H}\}$ NMR spectrum of **7f** (121.5 MHz, CDCl_3)

