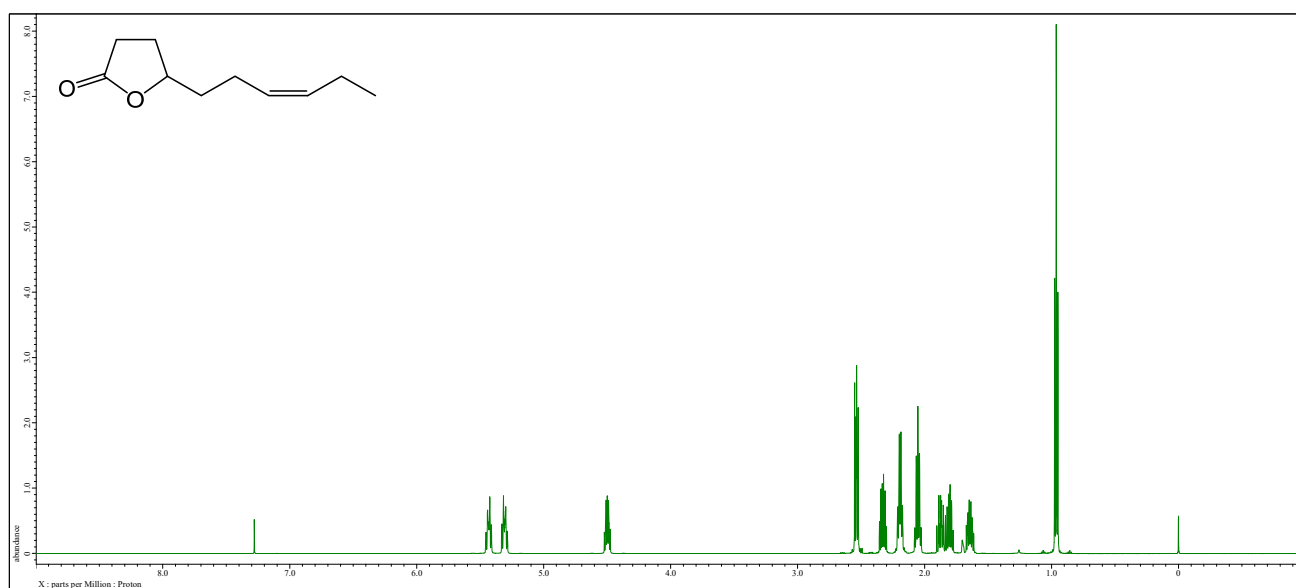
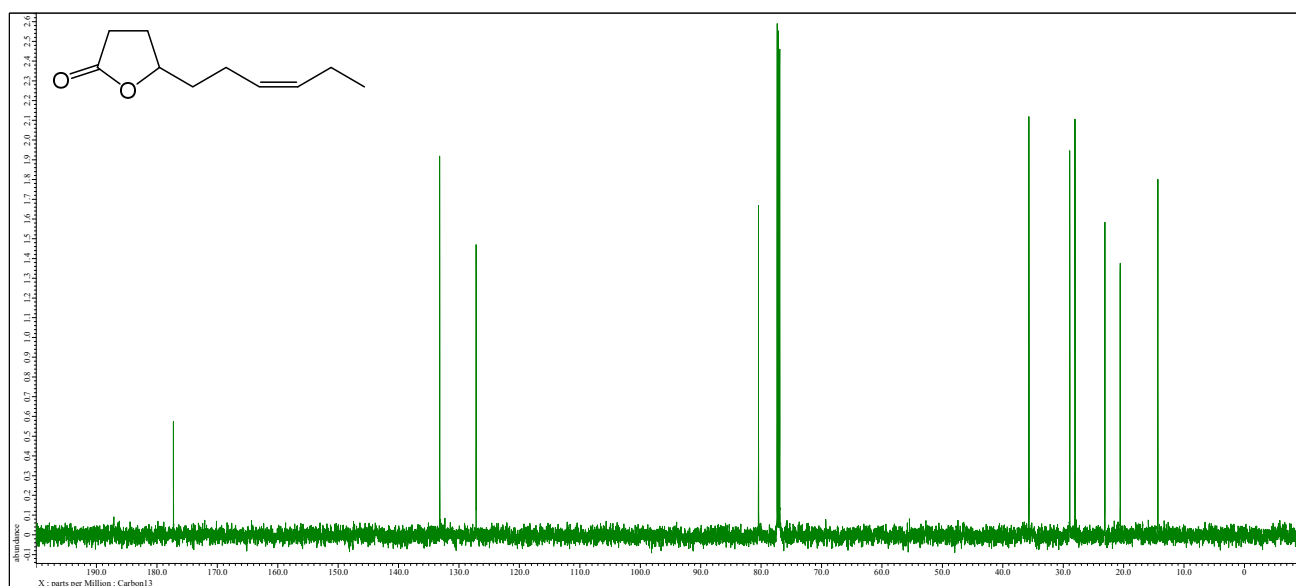


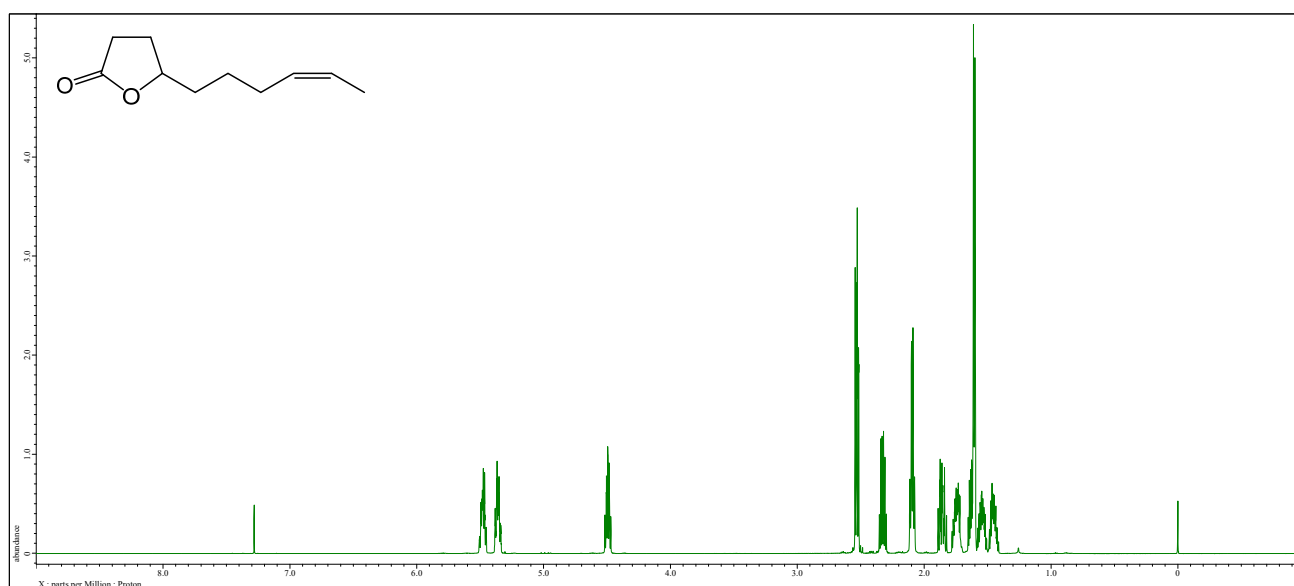
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-7-Decen-4-olide [(±)-1a]



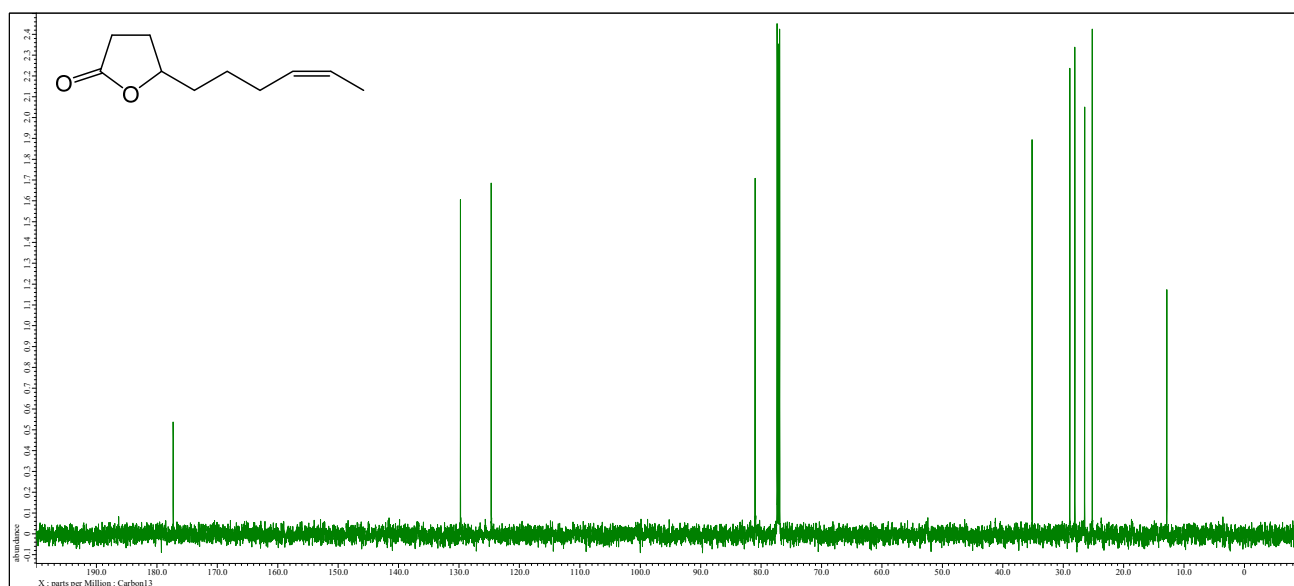
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-7-Decen-4-olide [(±)-1a]



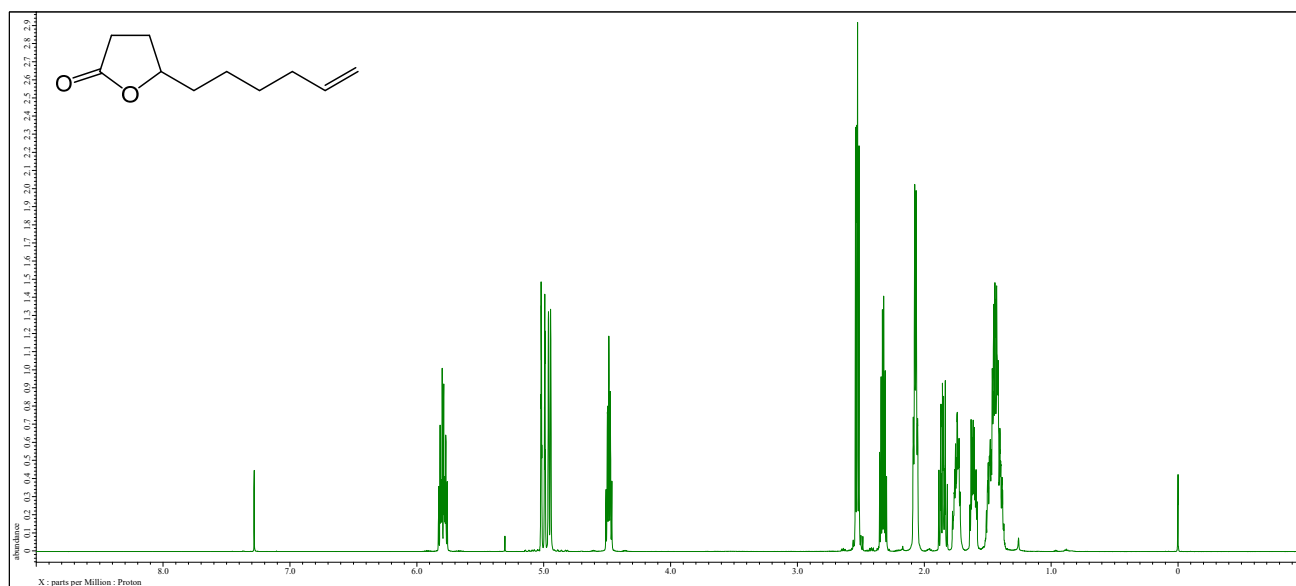
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-8-Decen-4-olide [(±)-1b]



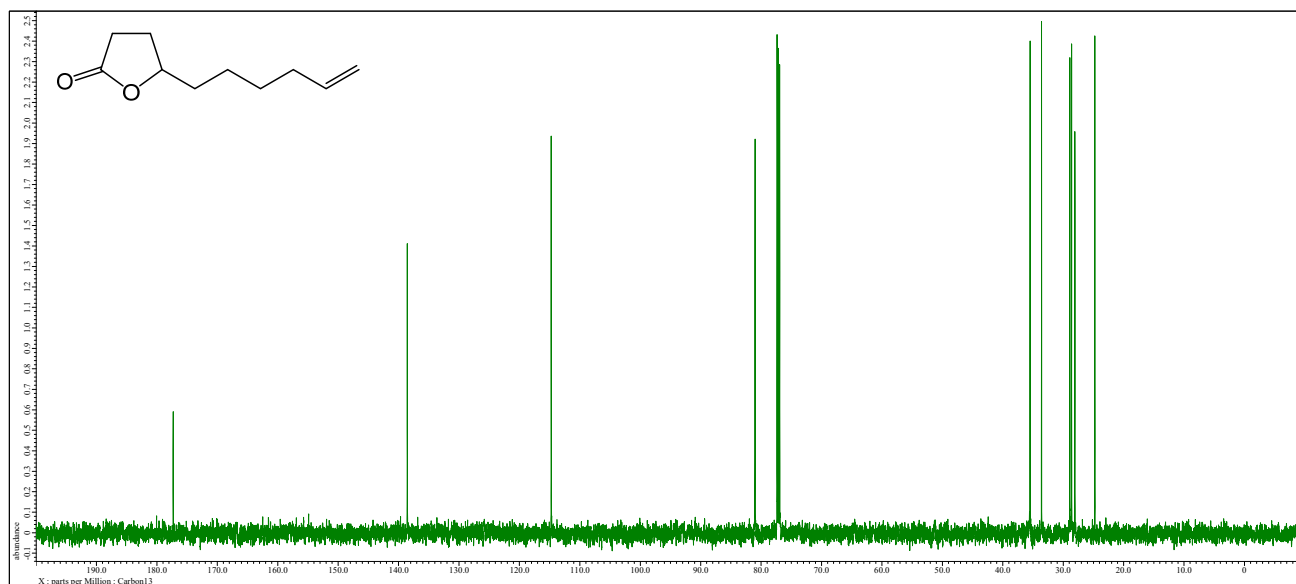
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-8-Decen-4-olide [(±)-1b]



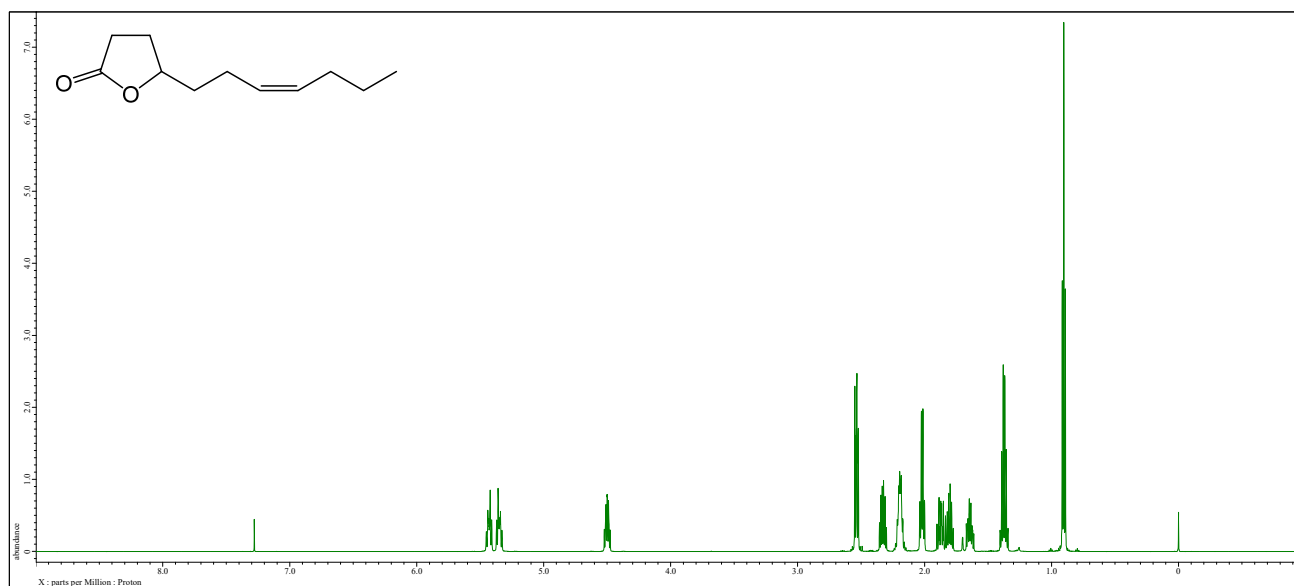
¹H NMR (600 MHz, CDCl₃) (±)-9-Decen-4-olide [(±)-1c]



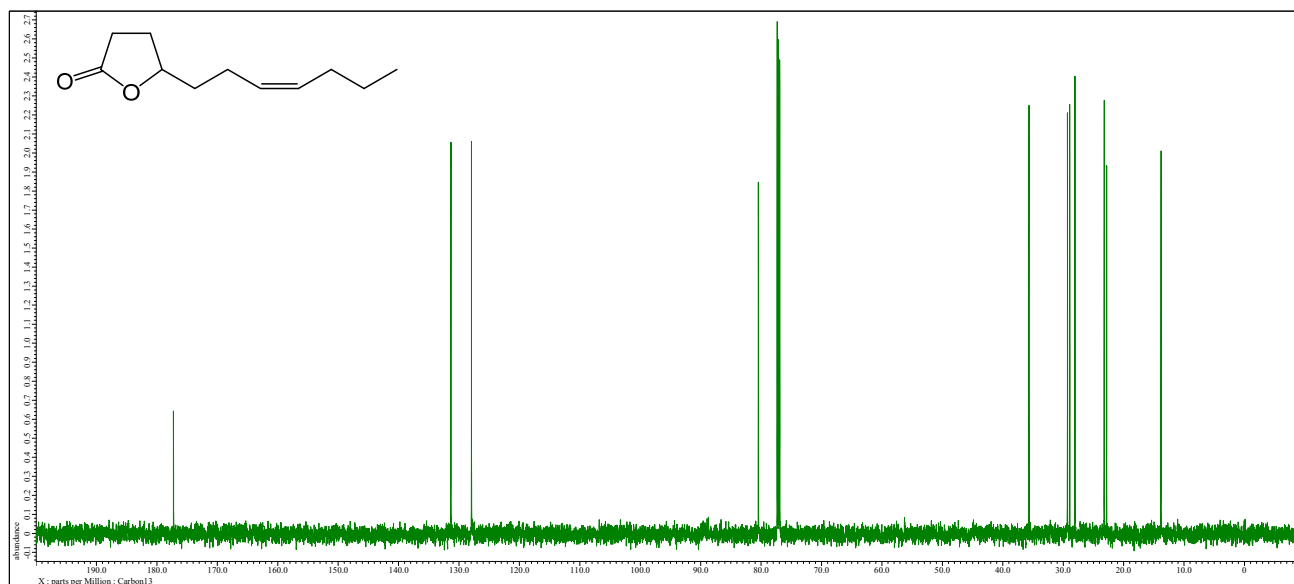
¹³C NMR (150 MHz, CDCl₃) (±)-9-Decen-4-olide [(±)-1c]



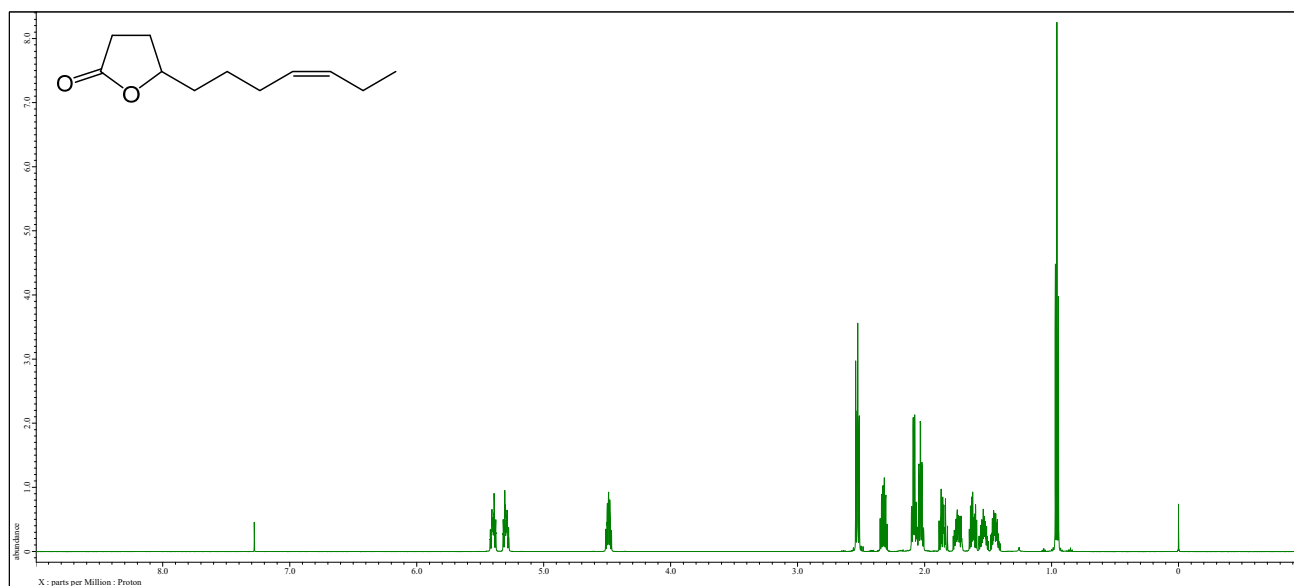
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-7-Undecen-4-olide [(±)-1d]



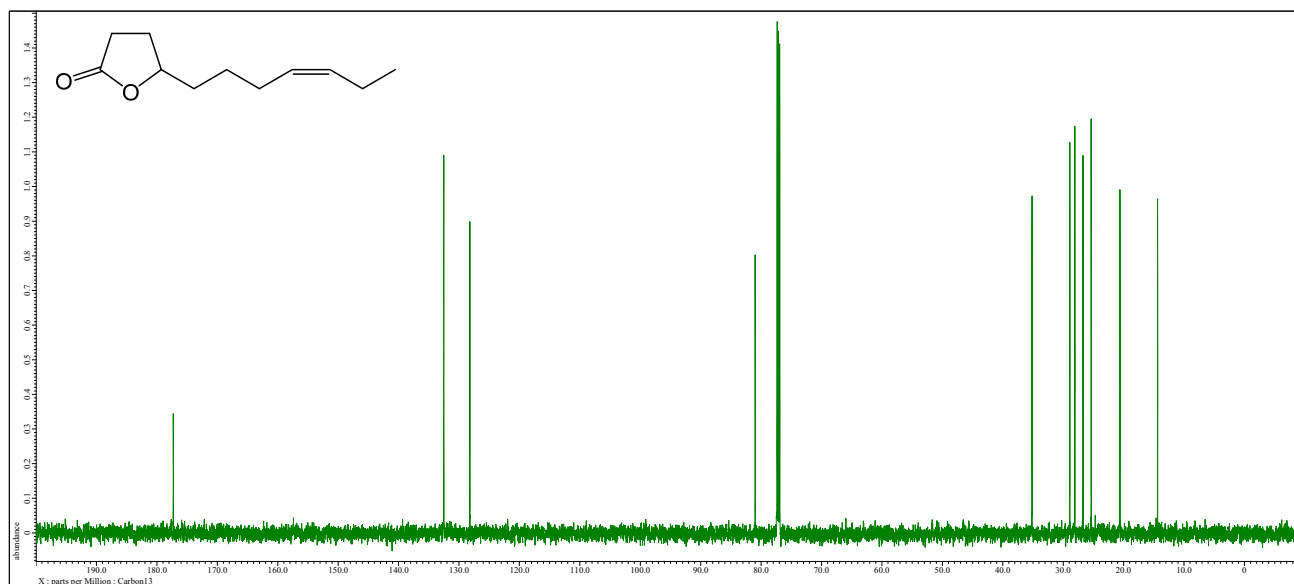
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-7-Undecen-4-olide [(±)-1d]



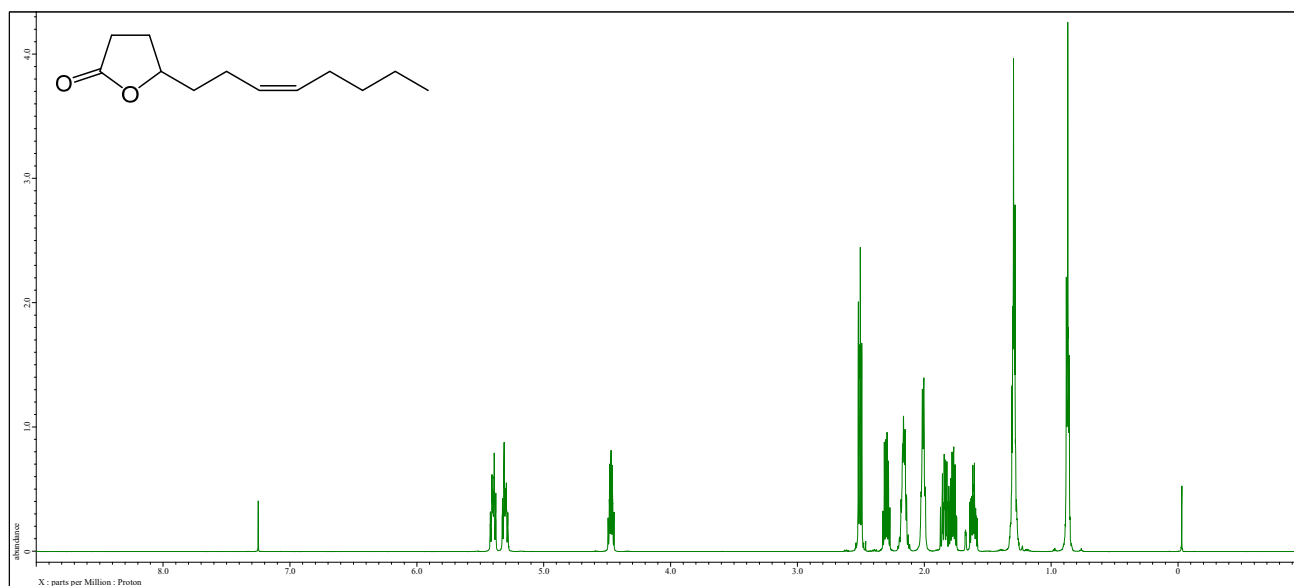
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-8-Undecen-4-olide [(±)-1e]



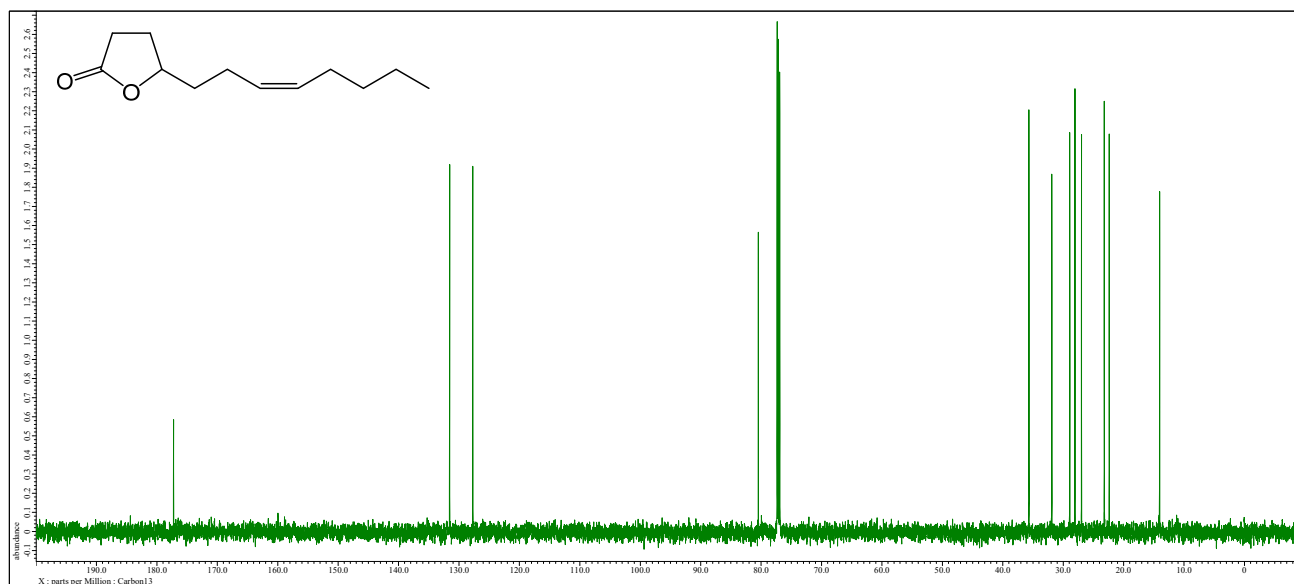
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-8-Undecen-4-olide [(±)-1e]



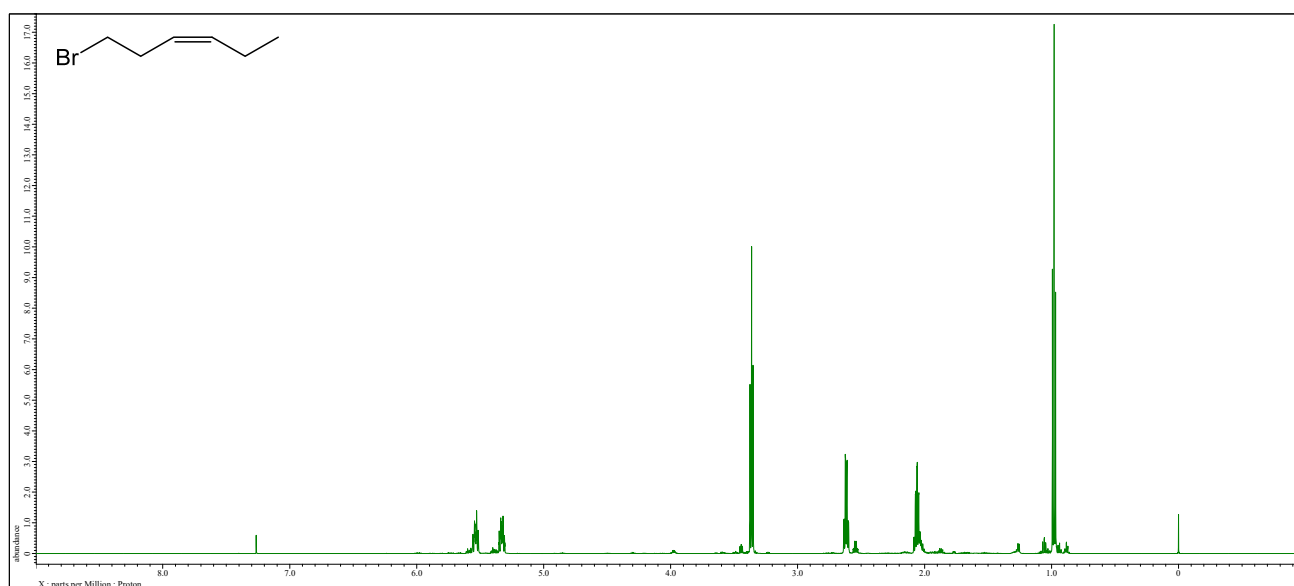
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-7-Dodecen-4-olide [(±)-1f]



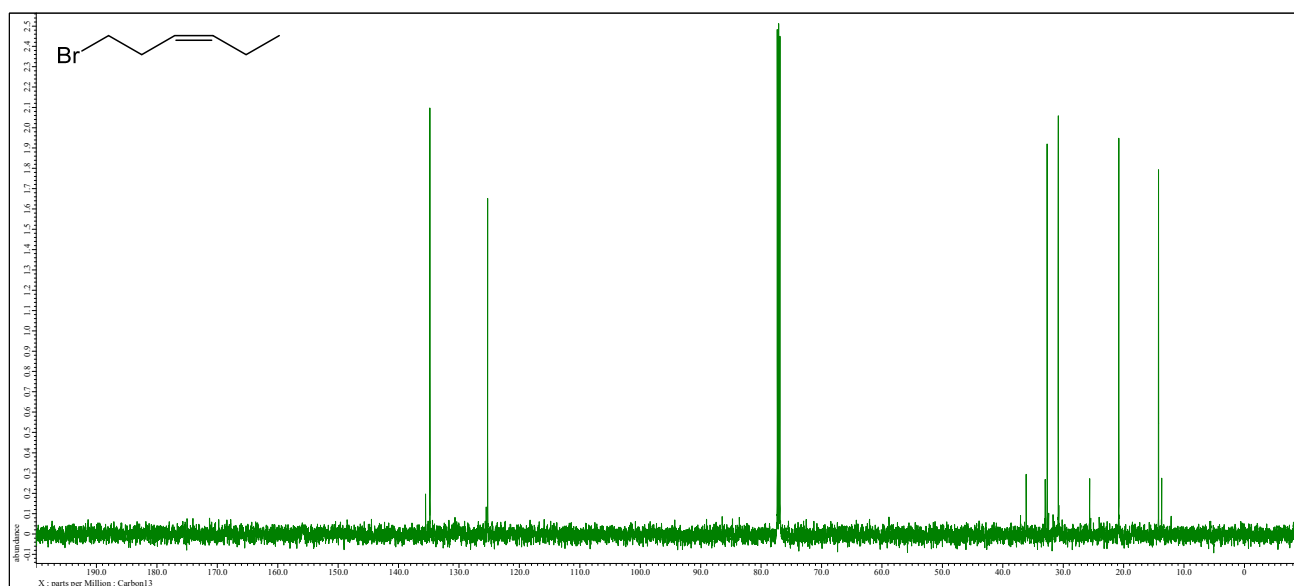
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-7-Dodecen-4-olide [(±)-1f]



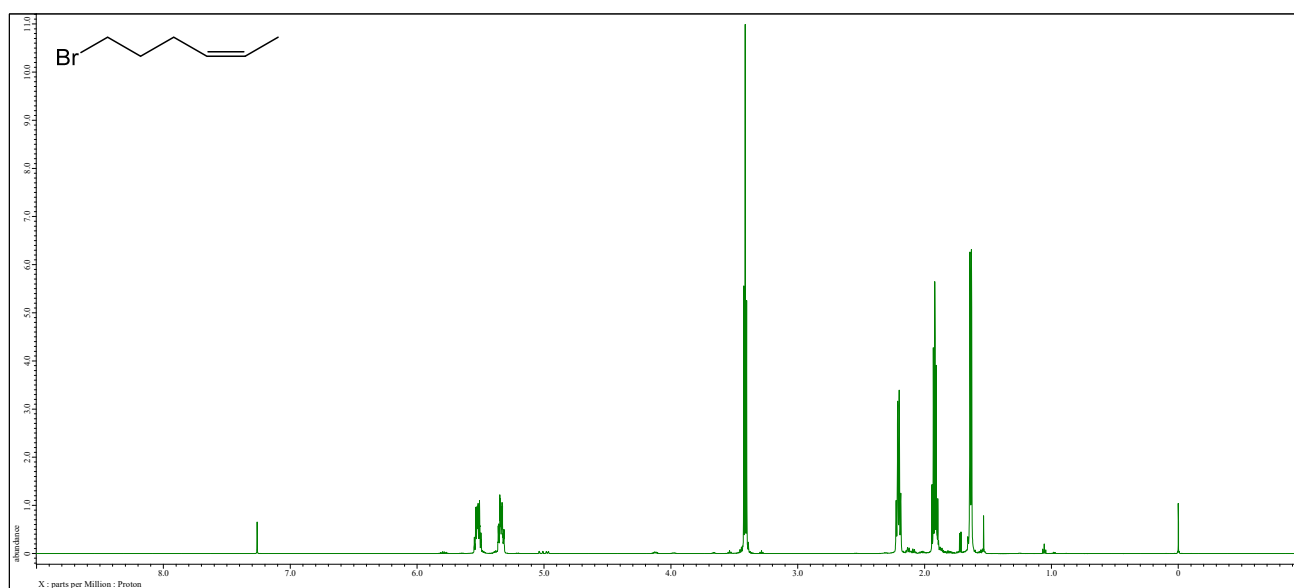
¹H NMR (600 MHz, CDCl₃) (Z)-1-Bromo-3-hexene



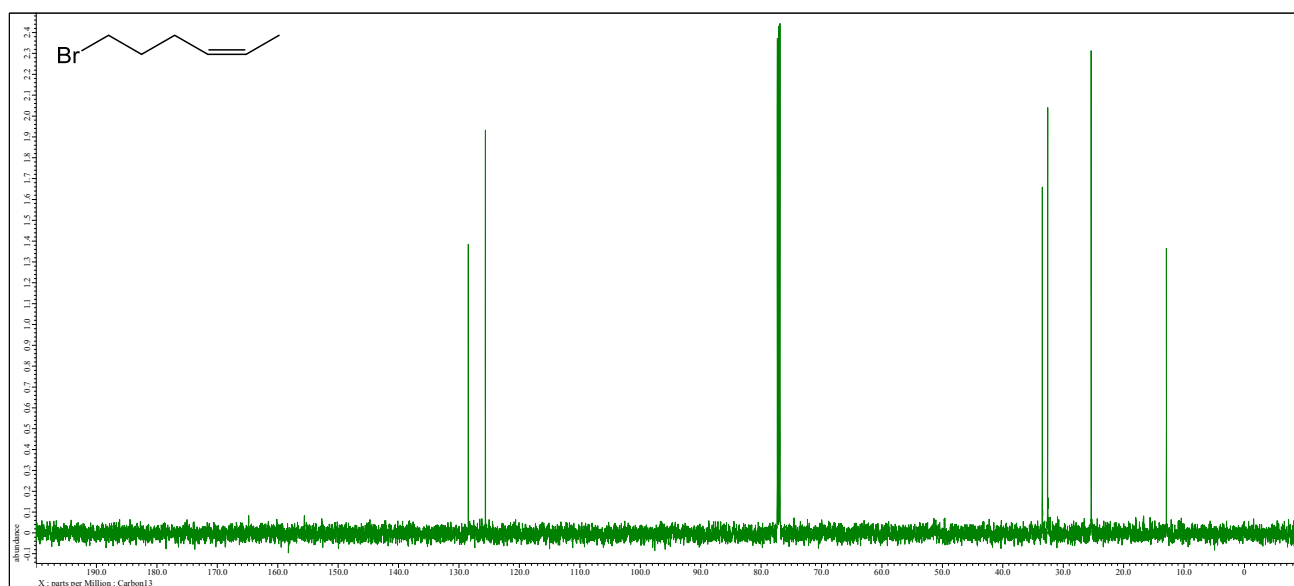
¹³C NMR (150 MHz, CDCl₃) (Z)-1-Bromo-3-hexene



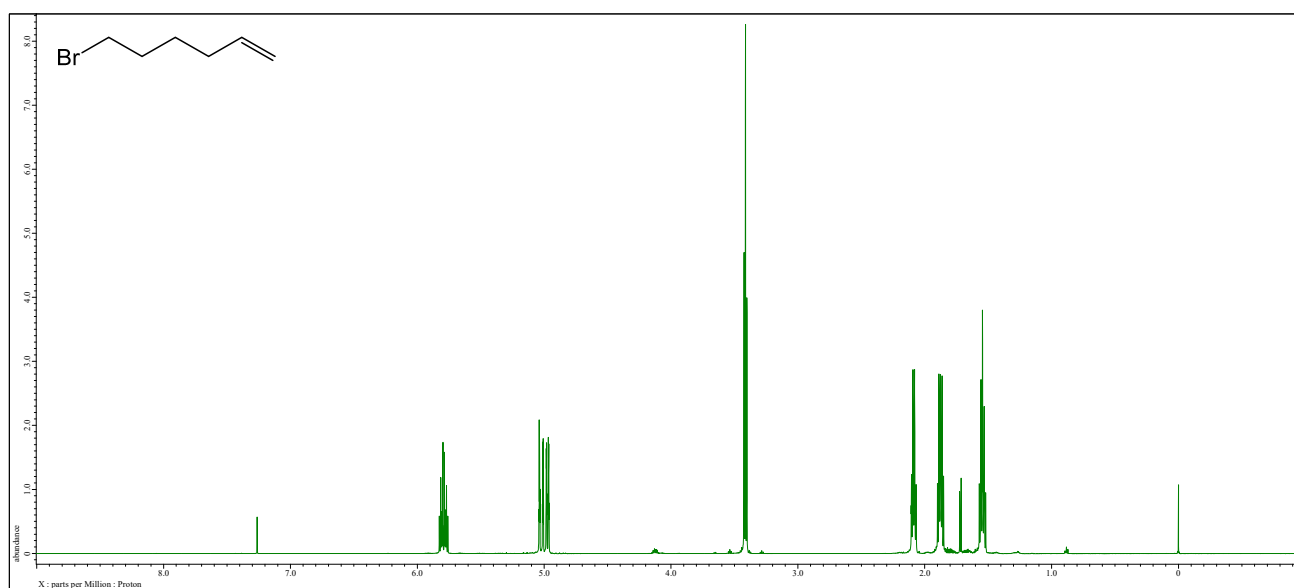
^1H NMR (600 MHz, CDCl_3) (Z)-6-Bromo-2-hexene



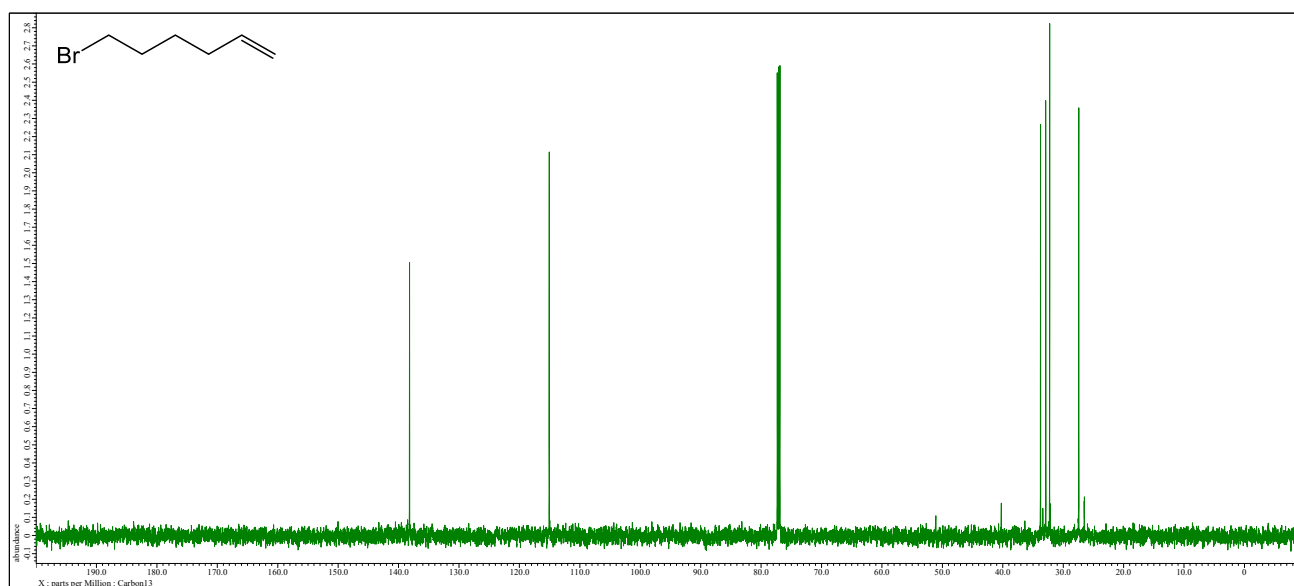
^{13}C NMR (150 MHz, CDCl_3) (Z)-6-Bromo-2-hexene



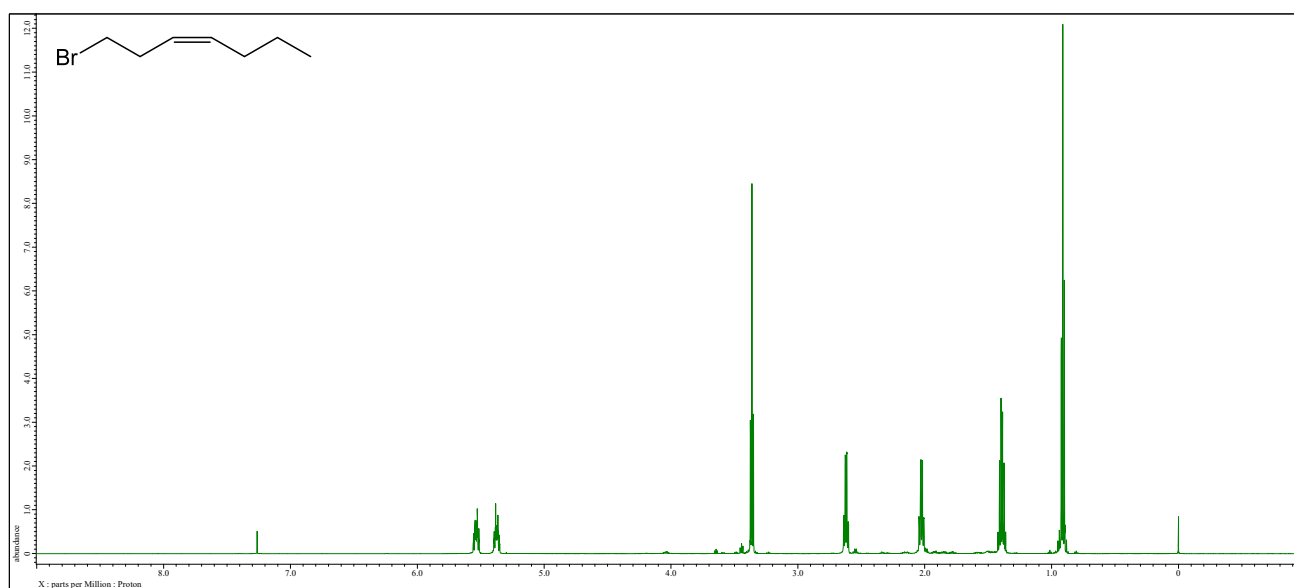
^1H NMR (600 MHz, CDCl_3) 6-Bromo-1-hexene



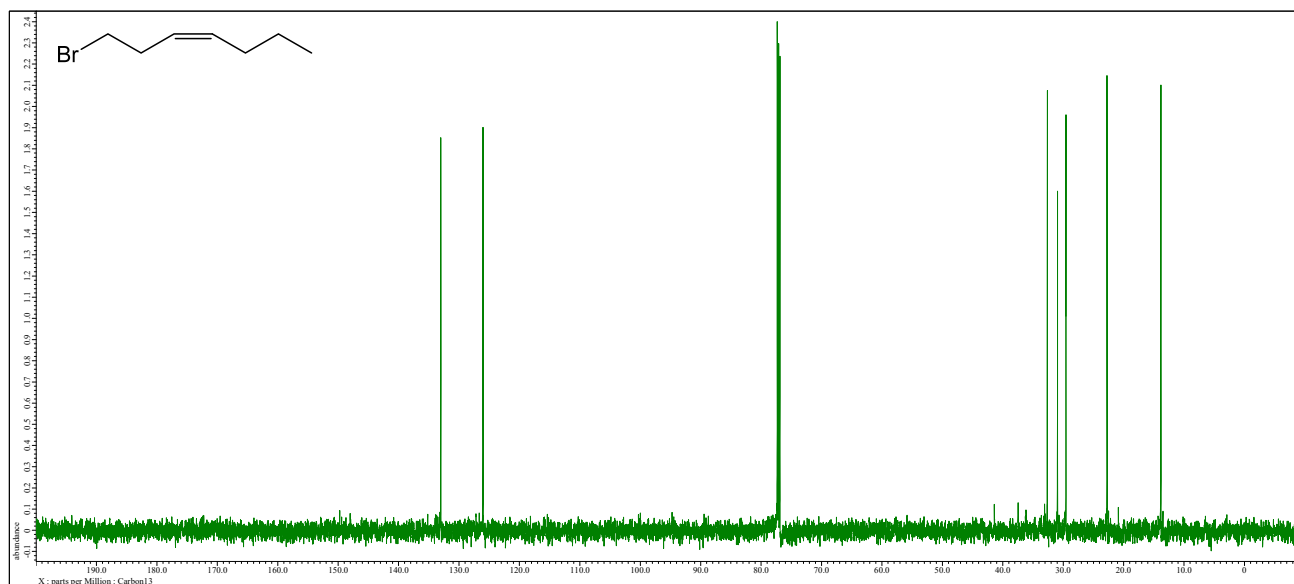
^{13}C NMR (150 MHz, CDCl_3) 6-Bromo-1-hexene



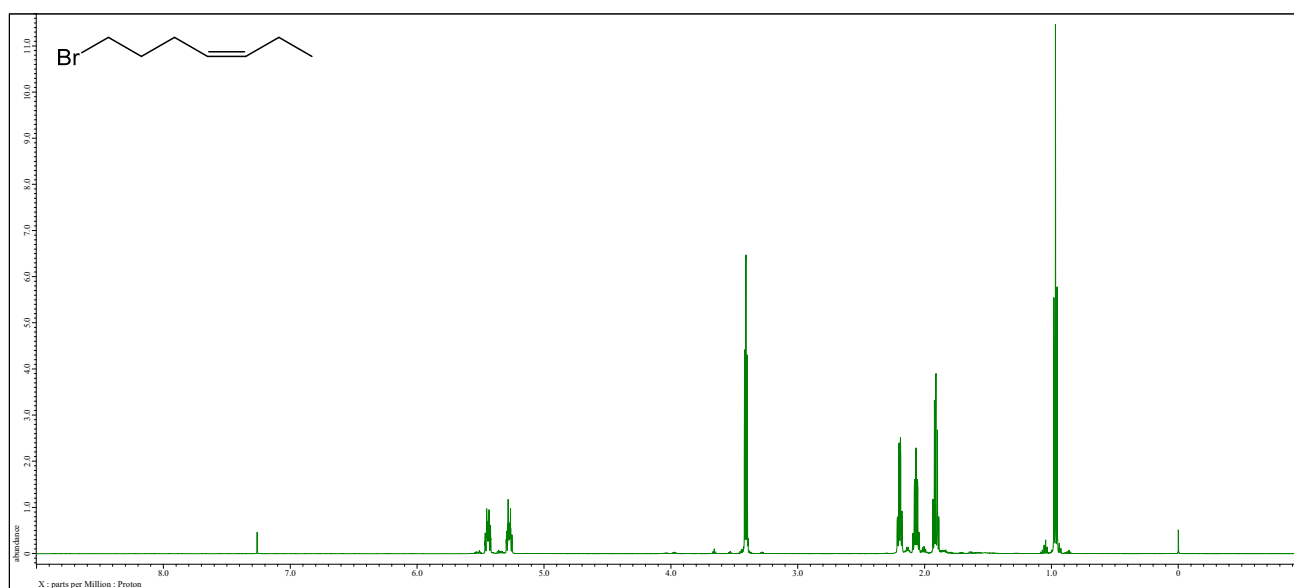
^1H NMR (600 MHz, CDCl_3) (Z)-1-Bromo-3-heptene



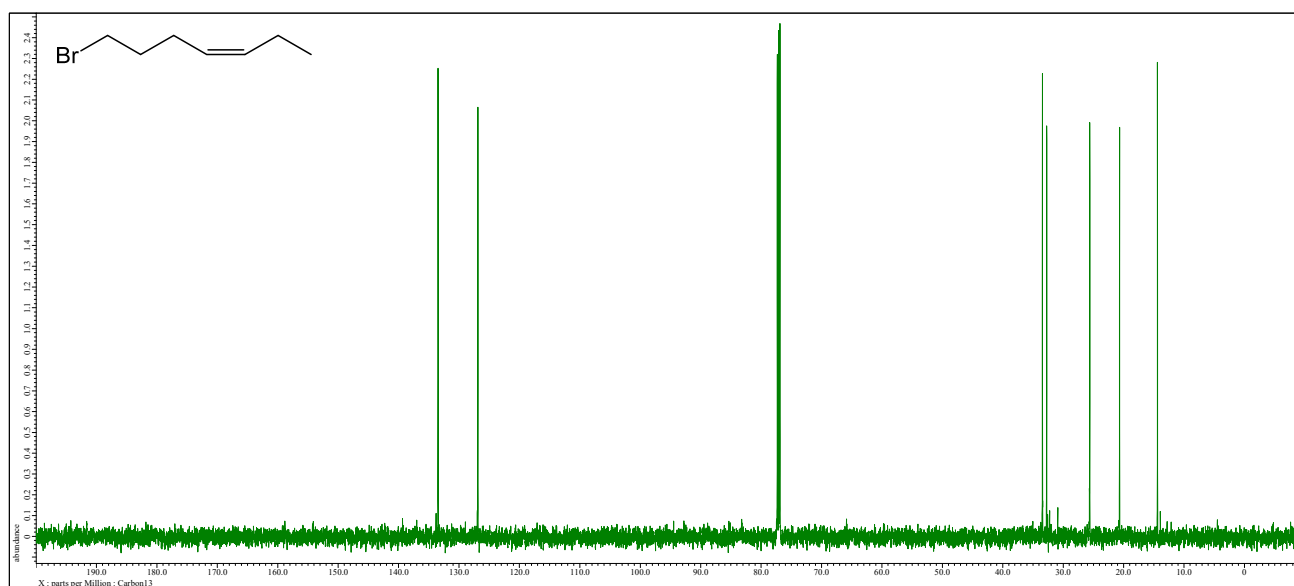
^{13}C NMR (150 MHz, CDCl_3) (Z)-1-Bromo-3-heptene



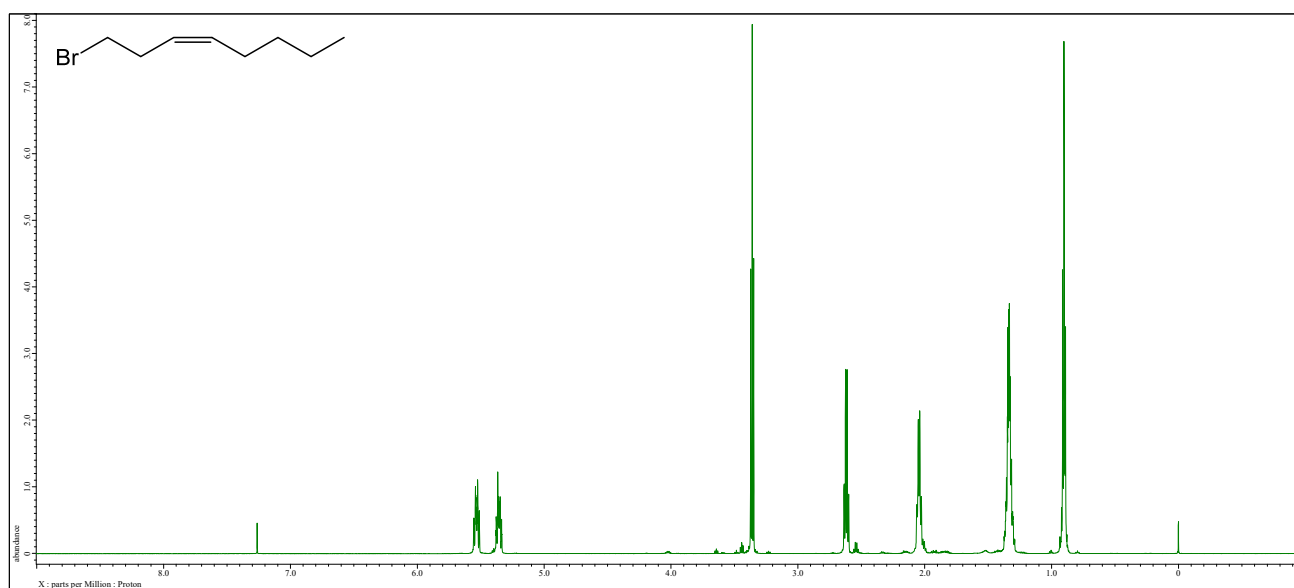
^1H NMR (600 MHz, CDCl_3) (Z)-7-Bromo-3-heptene



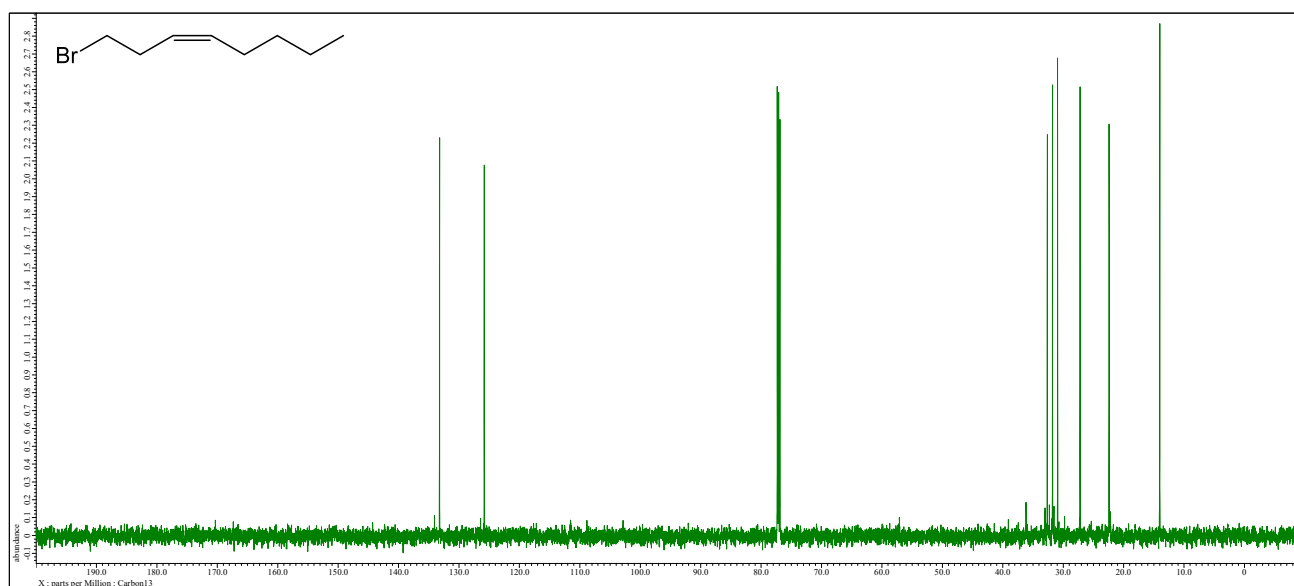
^{13}C NMR (150 MHz, CDCl_3) (Z)-7-Bromo-3-heptene



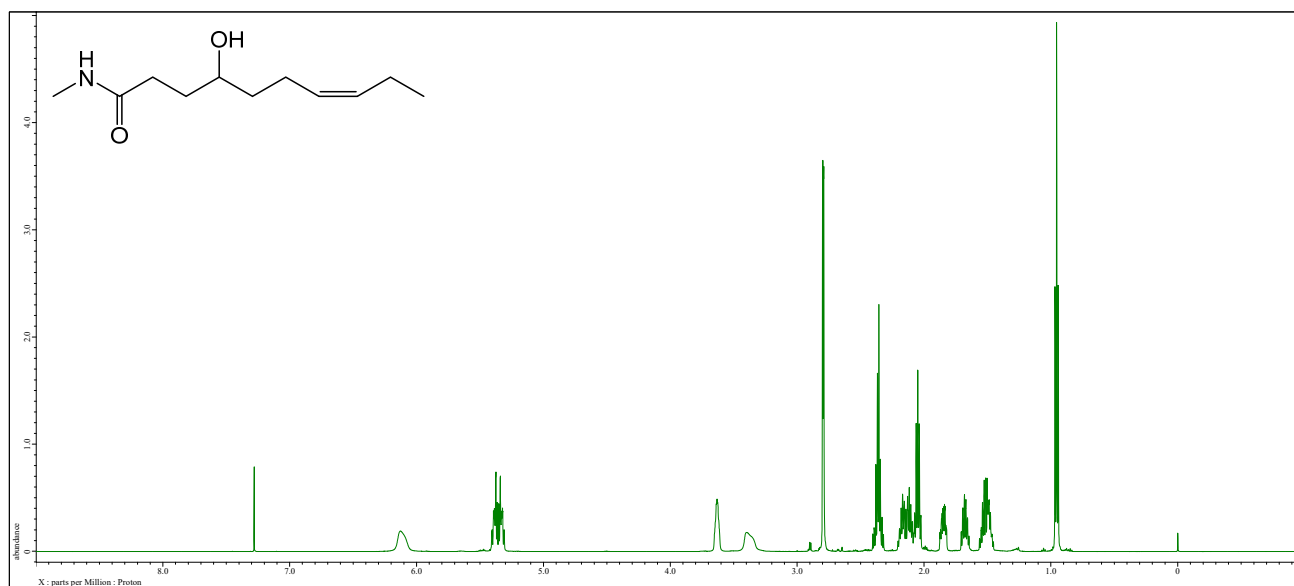
^1H NMR (600 MHz, CDCl_3) (Z)-1-Bromo-3-octene



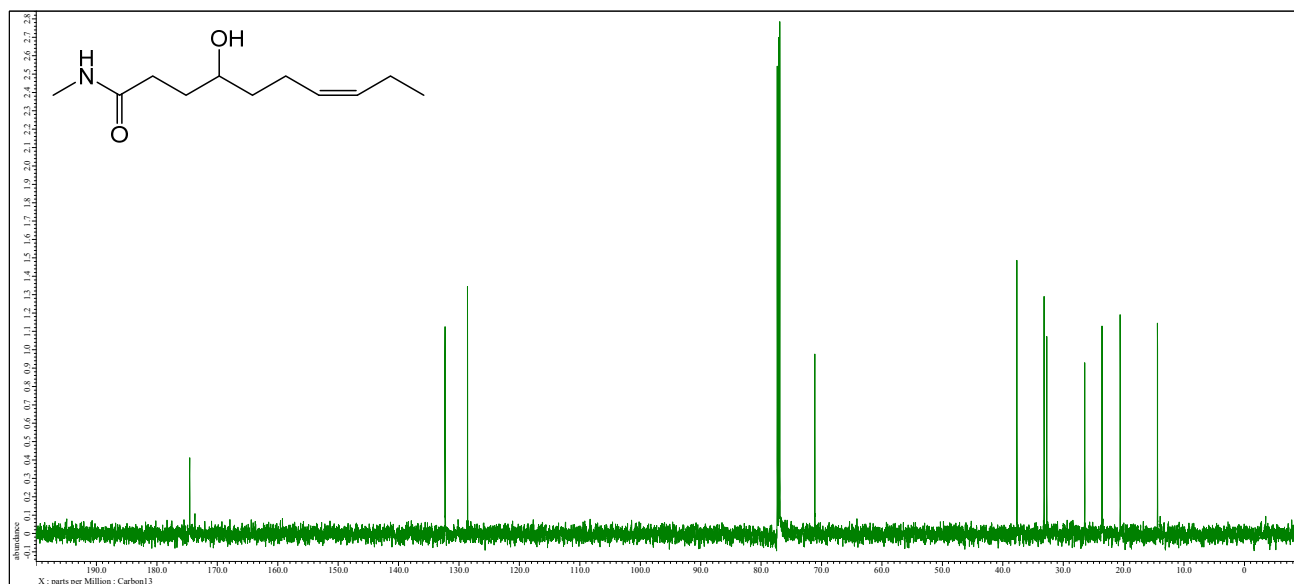
^{13}C NMR (150 MHz, CDCl_3) (Z)-1-Bromo-3-octene



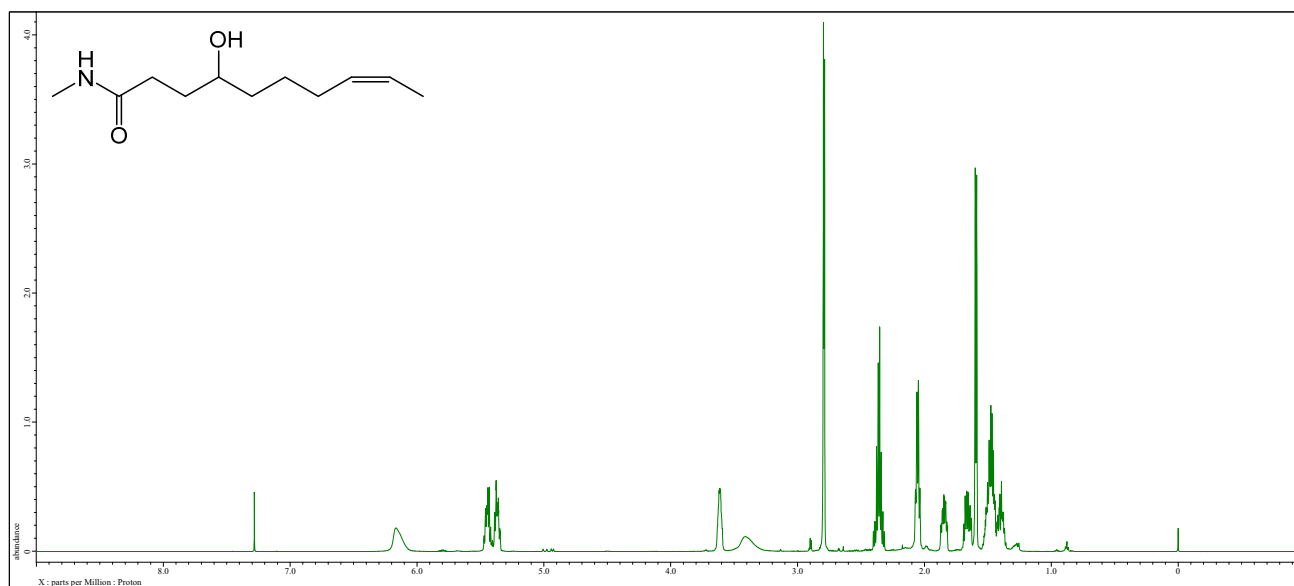
¹H NMR (600 MHz, CDCl₃) (±)-(*Z*)-*N*-Methyl-4-hydroxy-7-decenamide [(±)-2a]



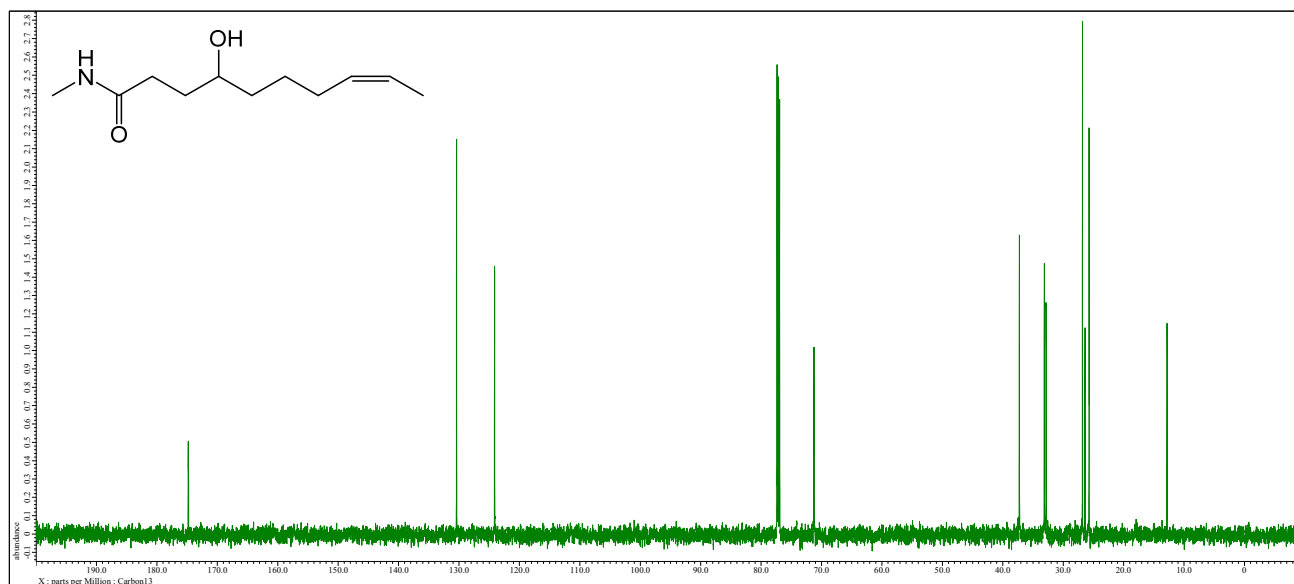
¹³C NMR (150 MHz, CDCl₃) (±)-(*Z*)-*N*-Methyl-4-hydroxy-7-decenamide [(±)-2a]



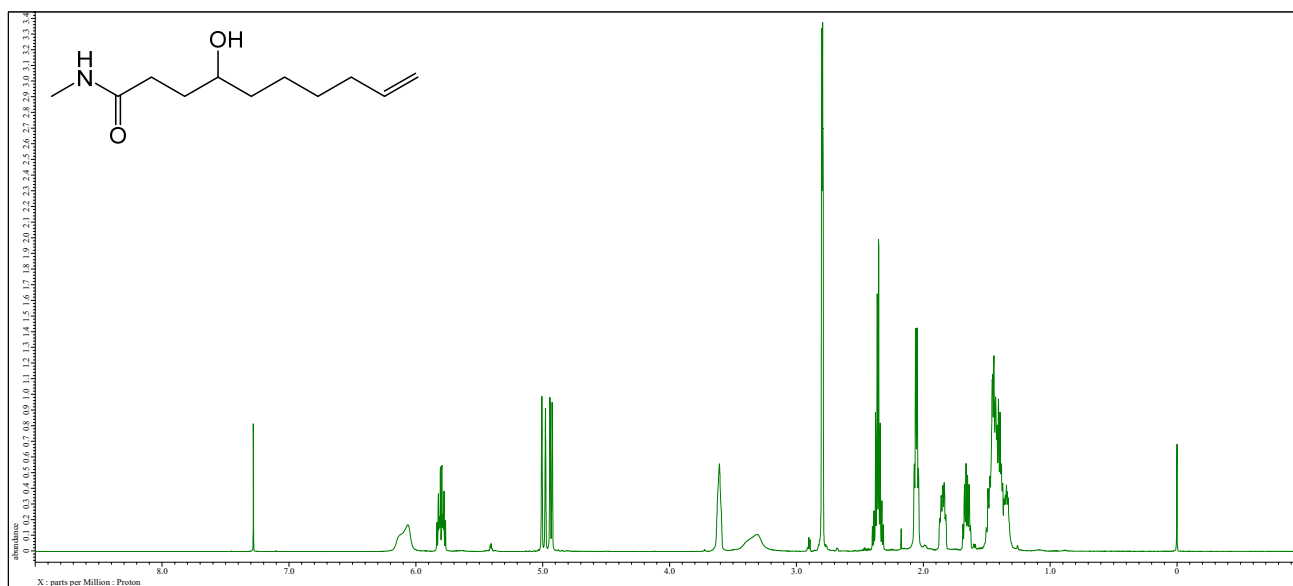
¹H NMR (600 MHz, CDCl₃) (±)-(*Z*)-*N*-Methyl-4-hydroxy-8-decenamide [(±)-2b]



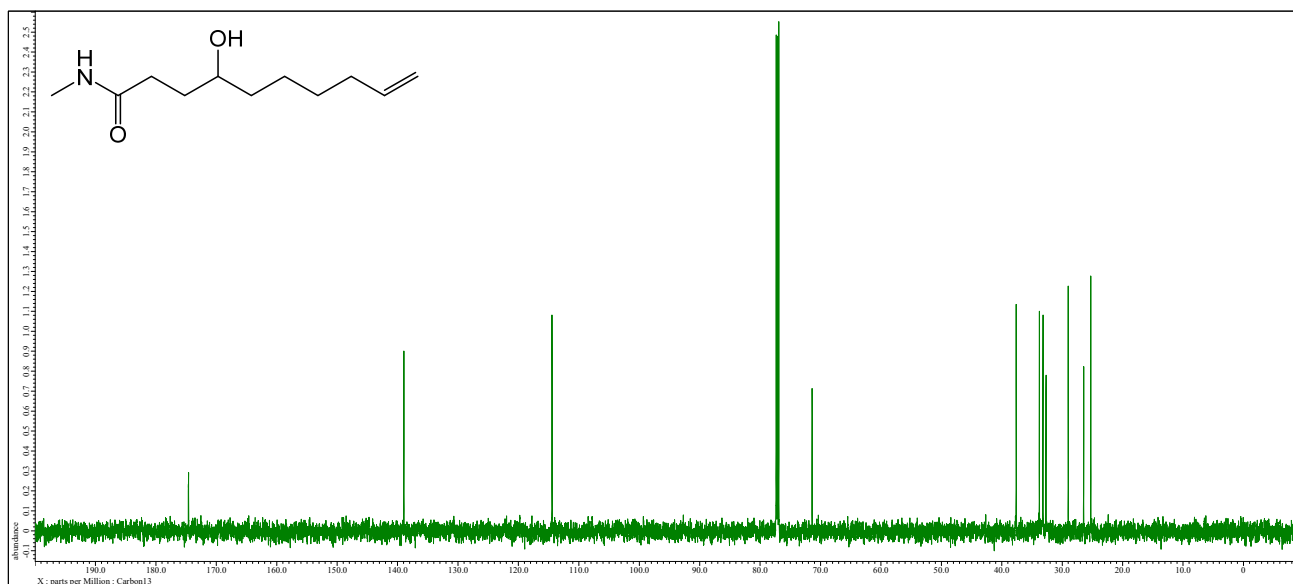
¹³C NMR (150 MHz, CDCl₃) (±)-(*Z*)-*N*-Methyl-4-hydroxy-8-decenamide [(±)-2b]



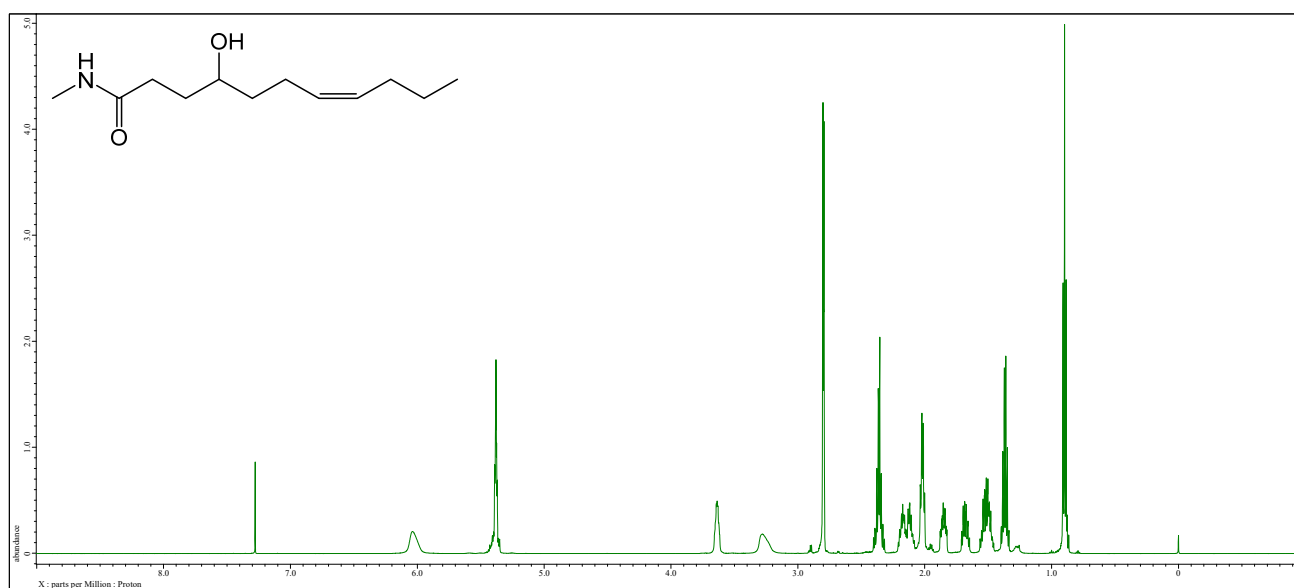
¹H NMR (600 MHz, CDCl₃) (±)-N-Methyl-4-hydroxy-9-decenamide [(±)-2c]



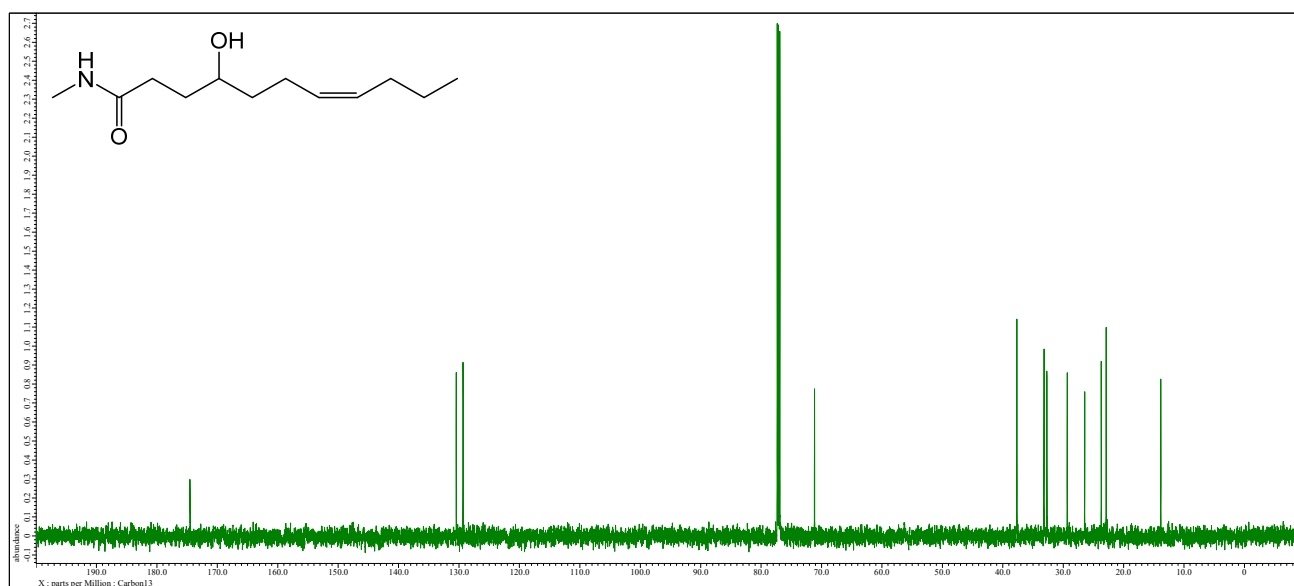
¹³C NMR (150 MHz, CDCl₃) (±)-N-Methyl-4-hydroxy-9-decenamide [(±)-2c]



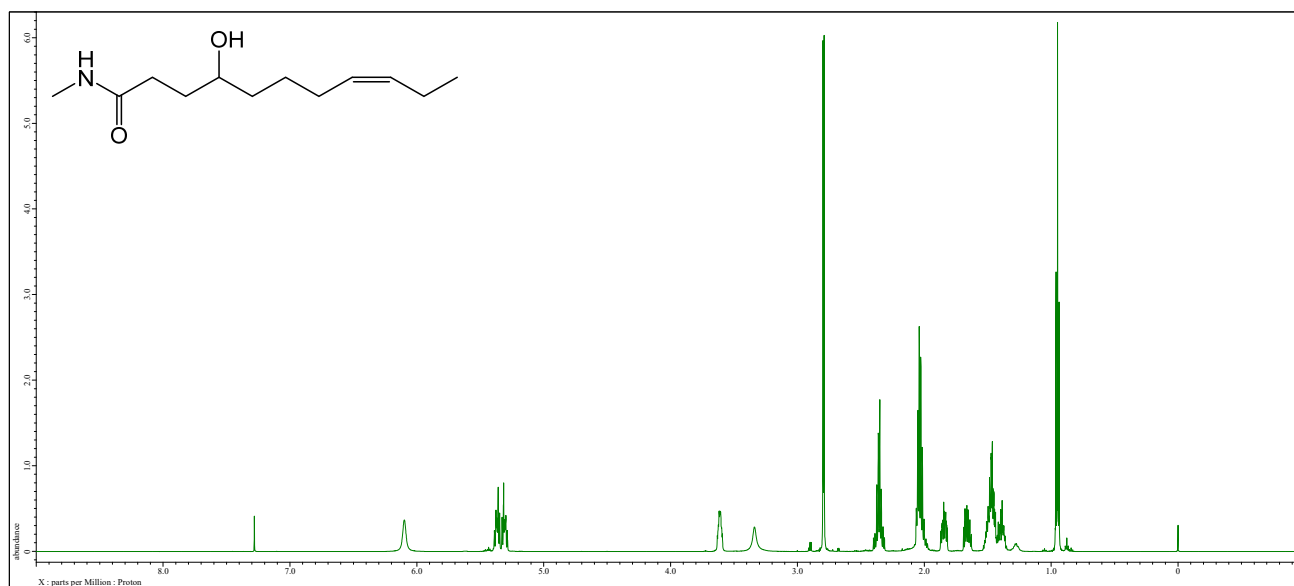
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-N-Methyl-4-hydroxy-7-undecenamide [(±)-2d]



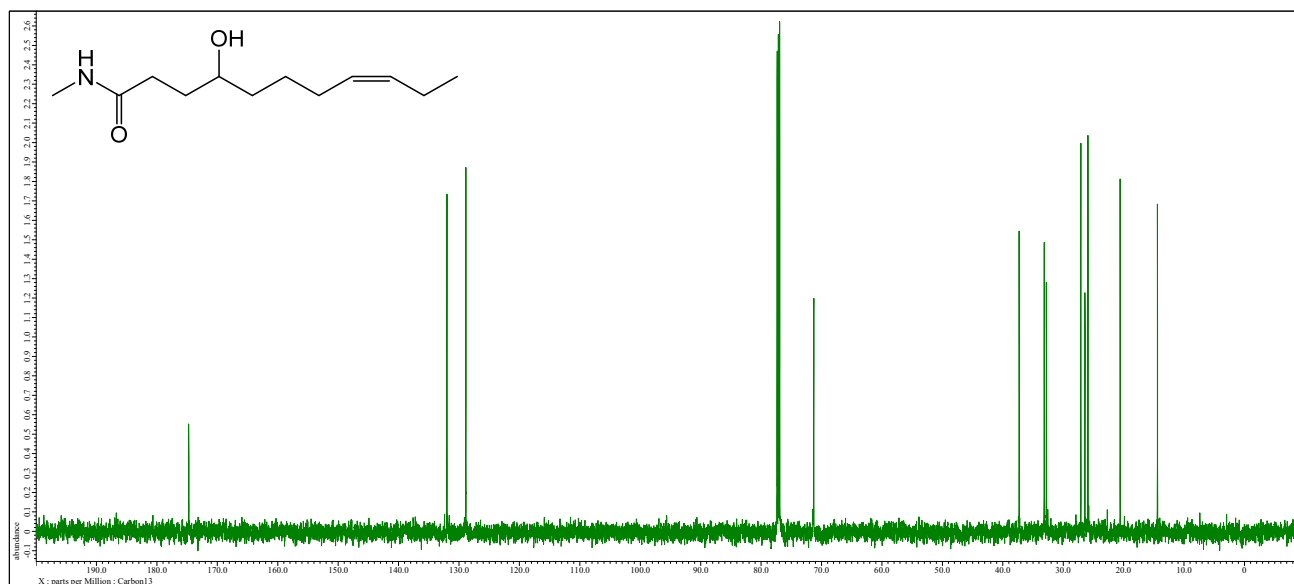
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-N-Methyl-4-hydroxy-7-undecenamide [(±)-2d]



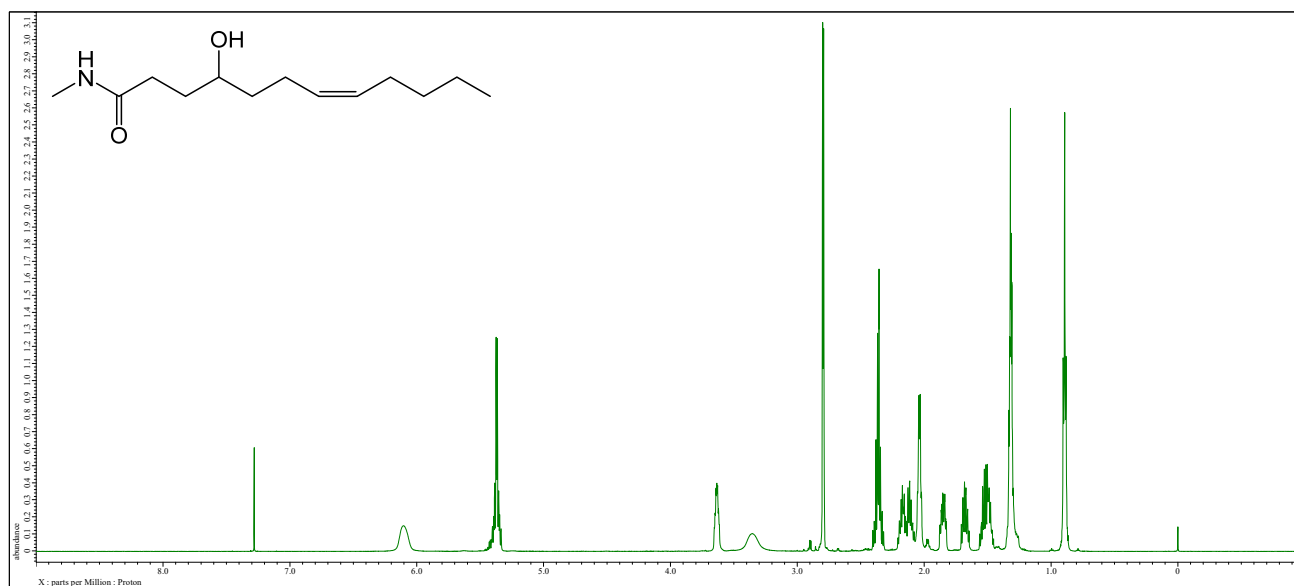
¹H NMR (600 MHz, CDCl₃) (±)-(Z)-N-Methyl-4-hydroxy-8-undecenamide [(±)-2e]



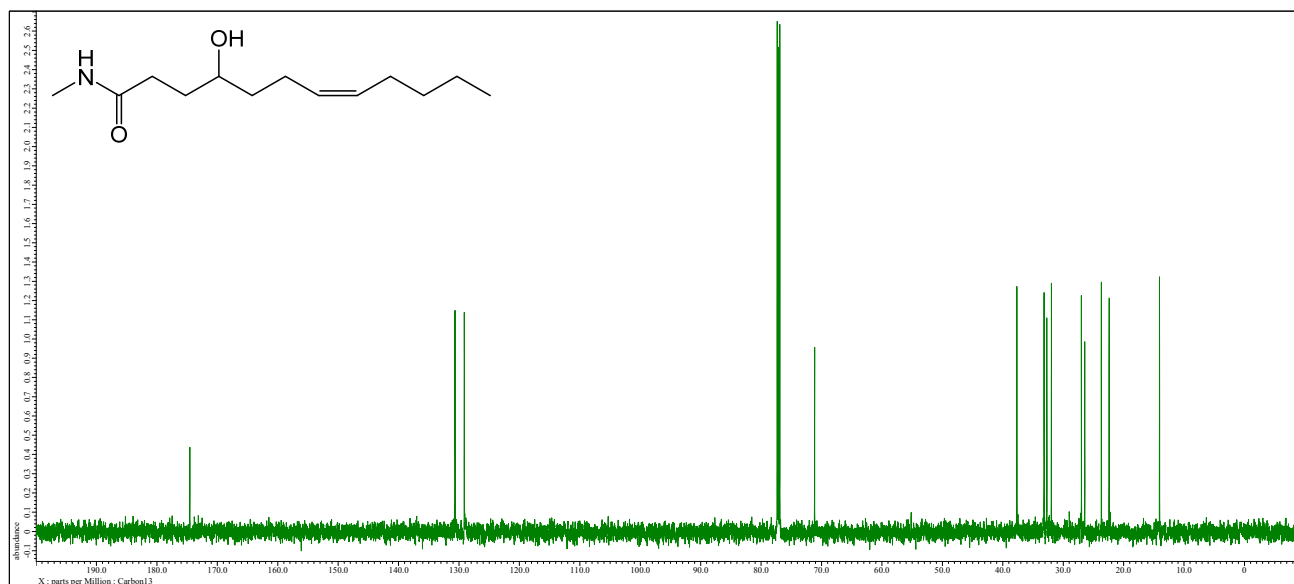
¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-N-Methyl-4-hydroxy-8-undecenamide [(±)-2e]



¹H NMR (600 MHz, CDCl₃) (±)-(Z)-N-Methyl-4-hydroxy-7-dodecenamide [(±)-2f]

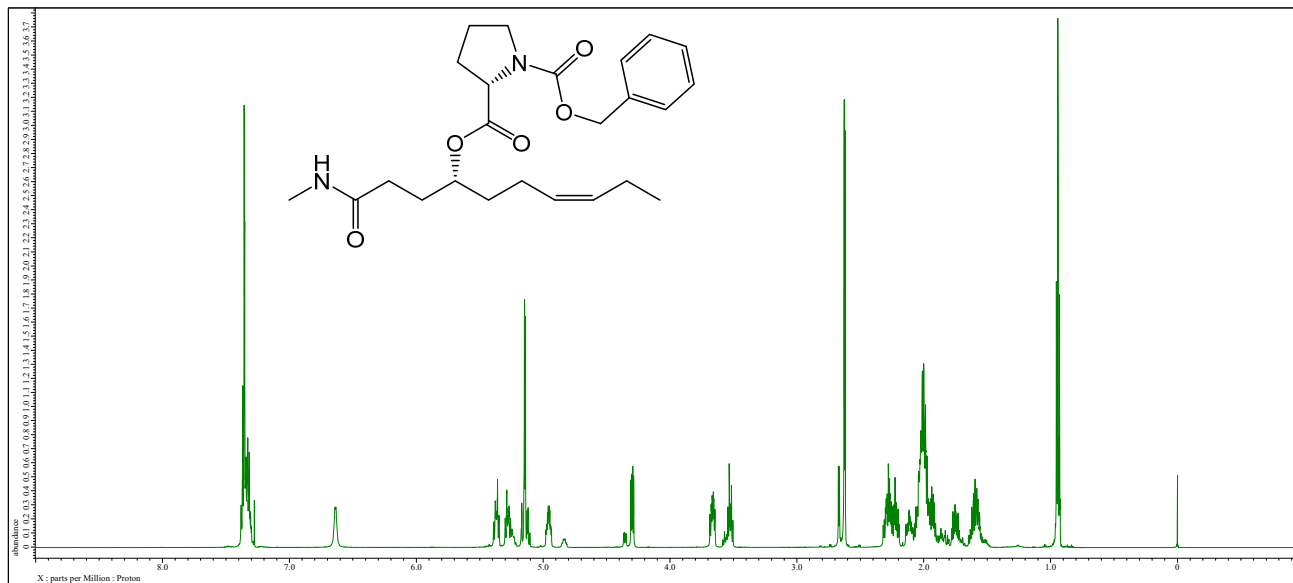


¹³C NMR (150 MHz, CDCl₃) (±)-(Z)-N-Methyl-4-hydroxy-7-dodecenamide [(±)-2f]



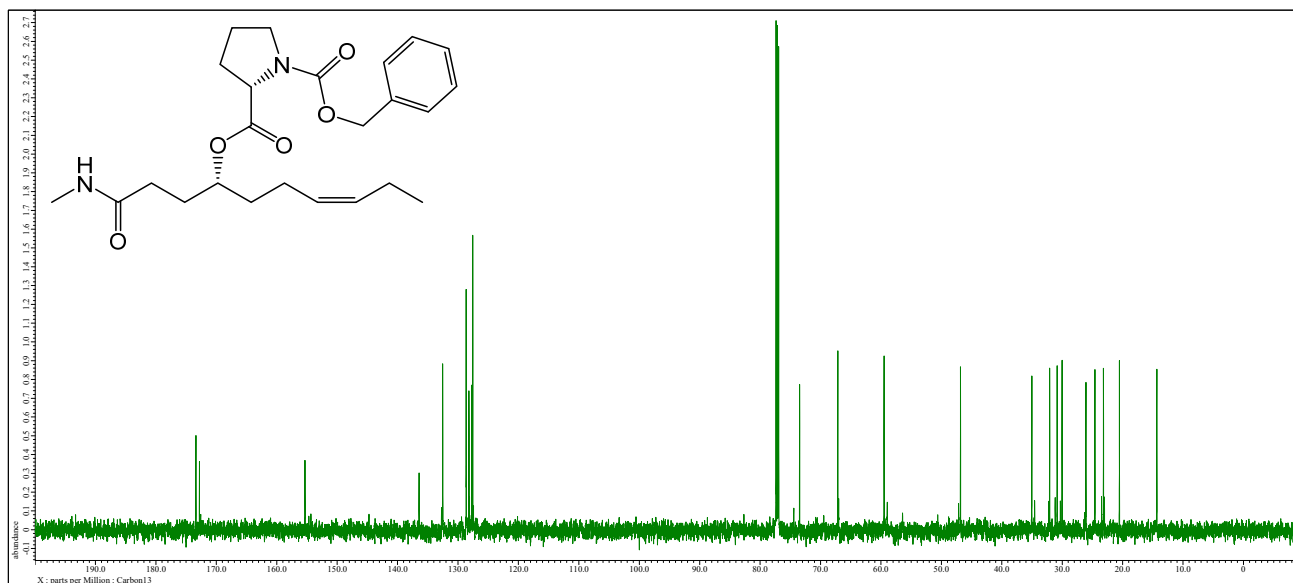
¹H NMR (600 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-decenamide (3a_{1st})



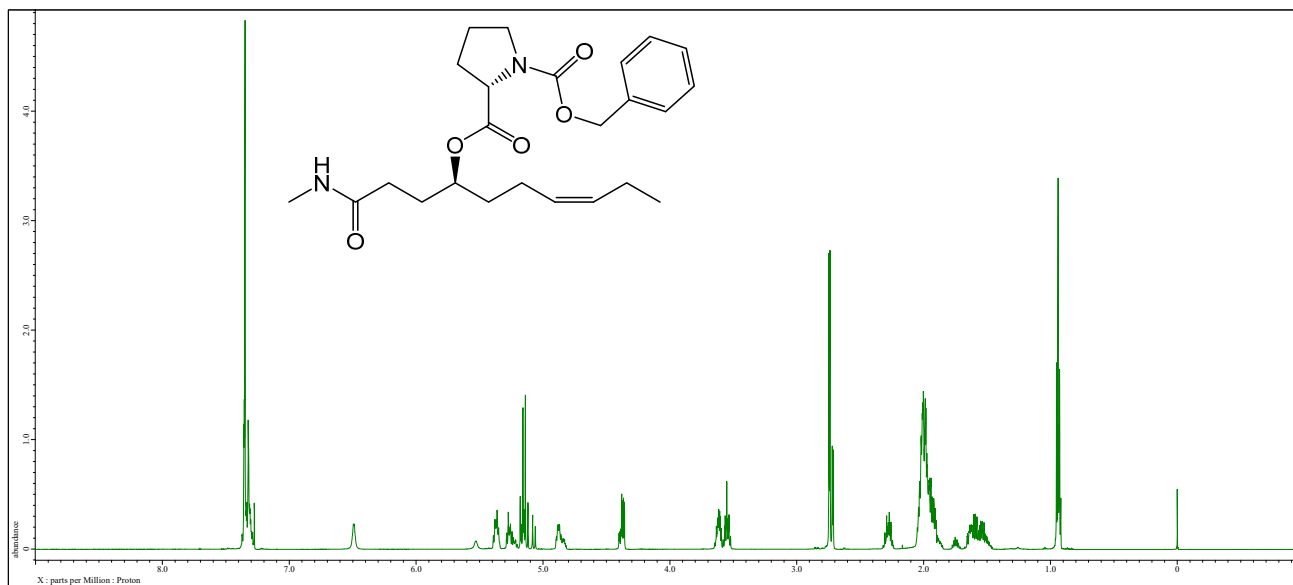
¹³C NMR (150 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-decenamide (3a_{1st})



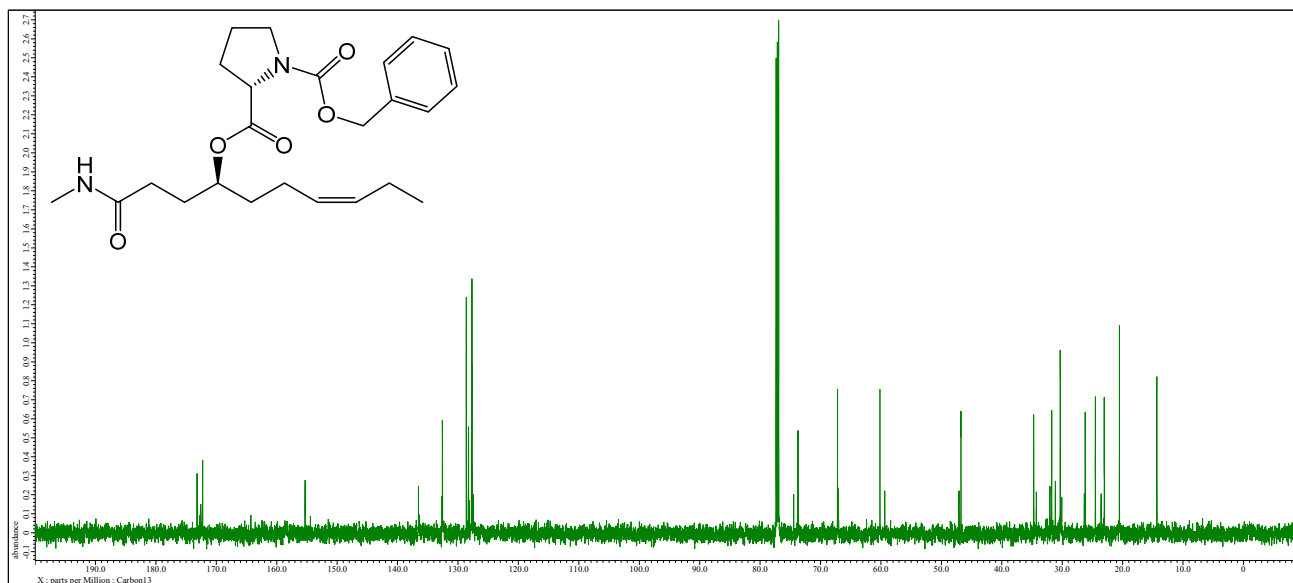
¹H NMR (600 MHz, CDCl₃)

(4*S*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-decenamide (3a_{2nd})



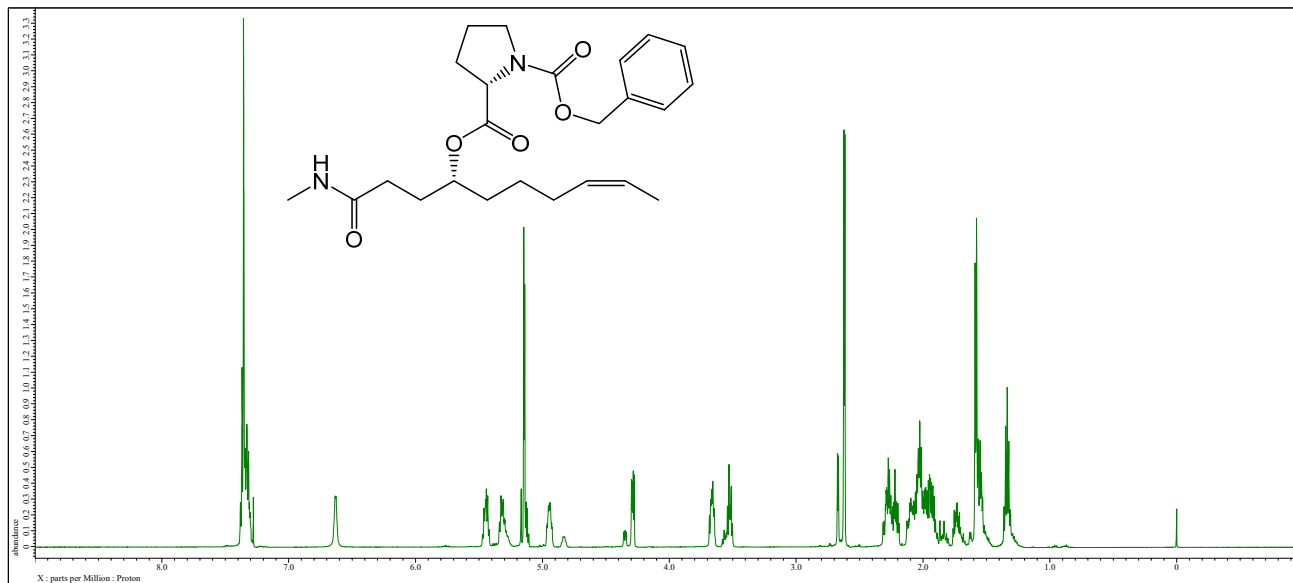
¹³C NMR (150 MHz, CDCl₃)

(4*S*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-decenamide (3a_{2nd})



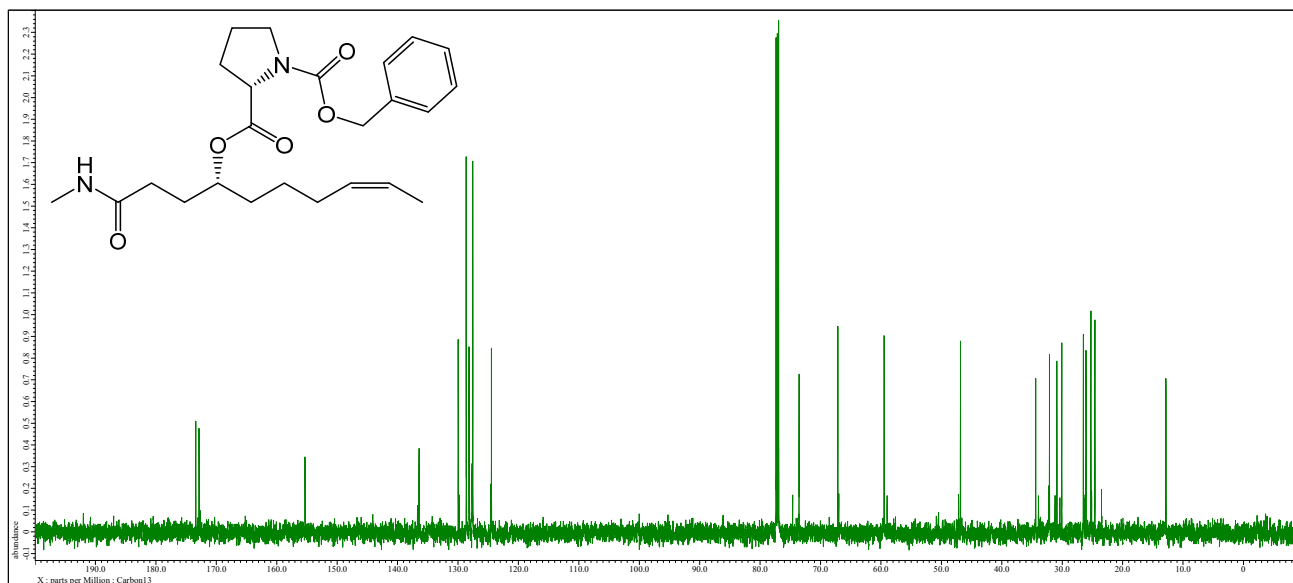
¹H NMR (600 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-8-decenamide (3b_{1st})



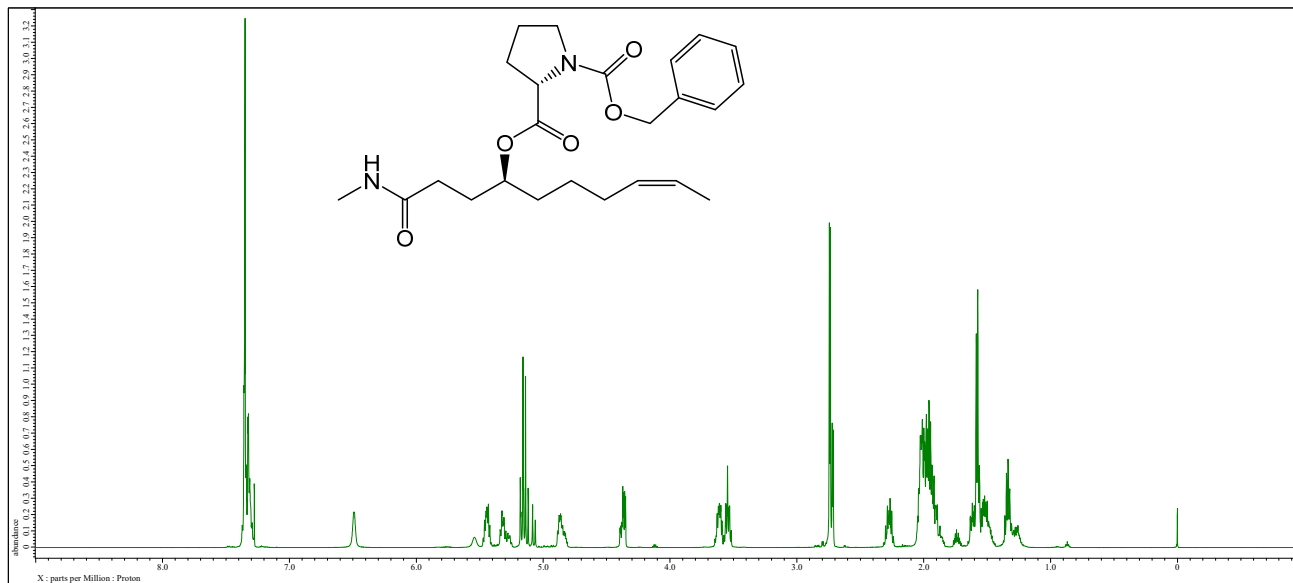
¹³C NMR (150 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-8-decenamide (3b_{1st})



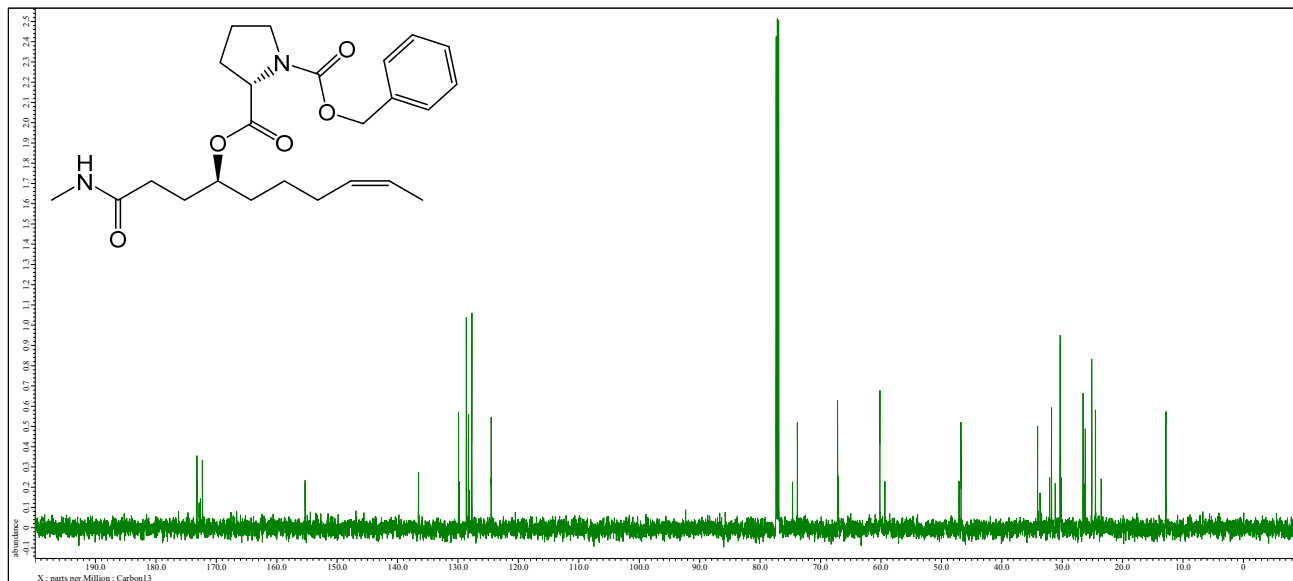
¹H NMR (600 MHz, CDCl₃)

(4*S*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-8-decenamide (3b_{2nd})



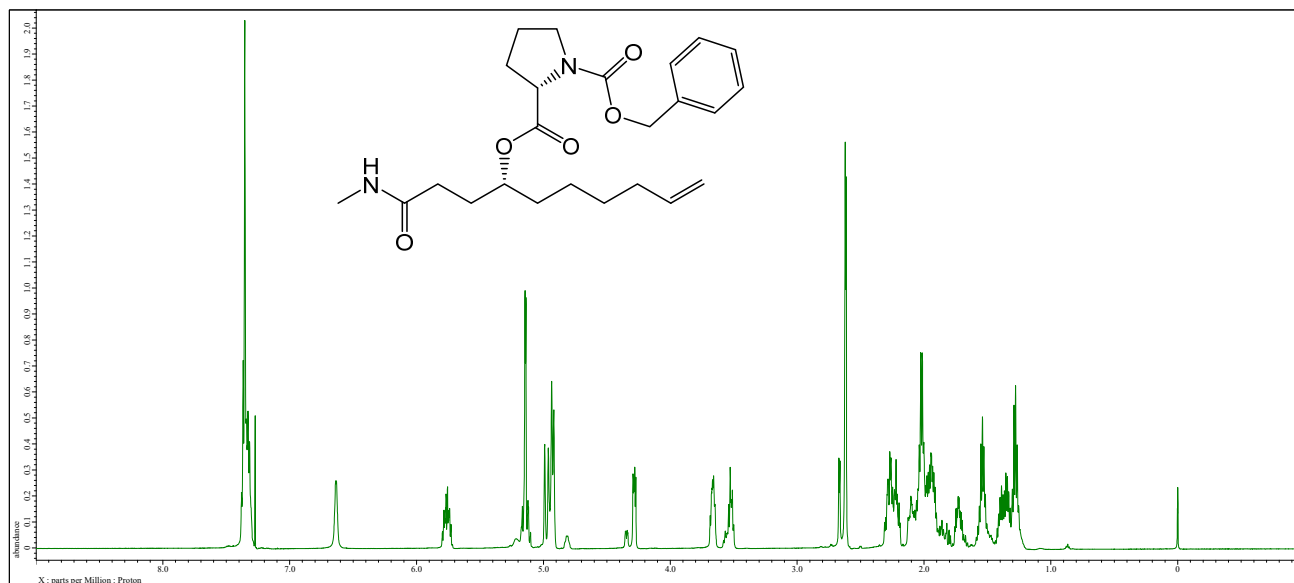
¹³C NMR (150 MHz, CDCl₃)

(4*S*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-8-decenamide (3b_{2nd})



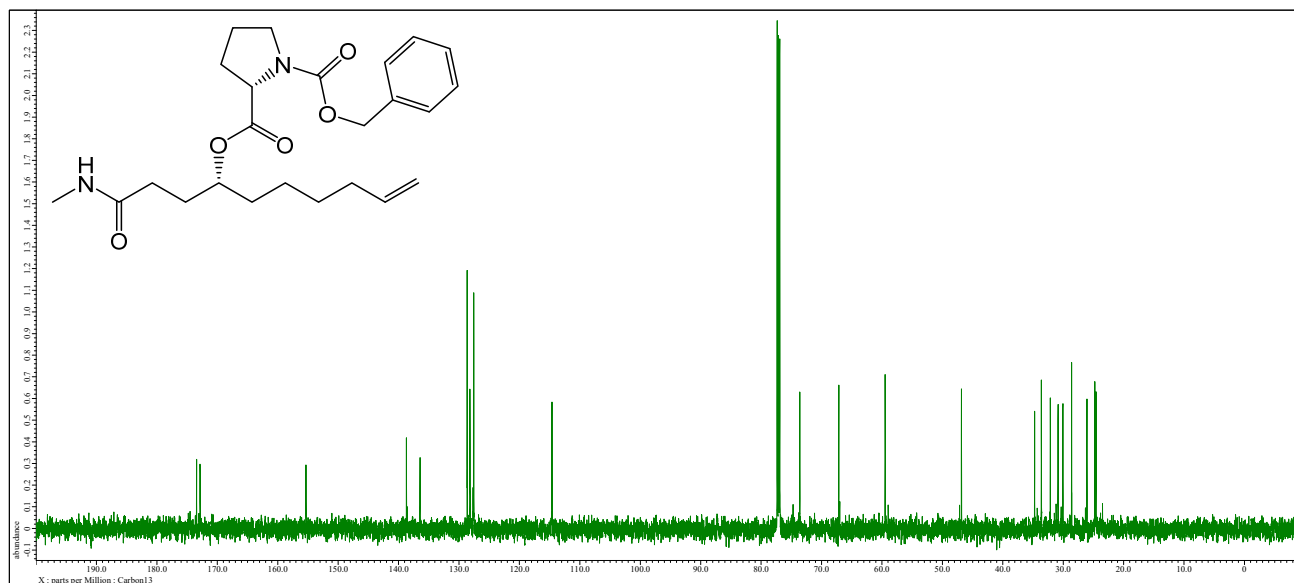
¹H NMR (600 MHz, CDCl₃)

(4*R*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-9-decenamide (3c_{1st})



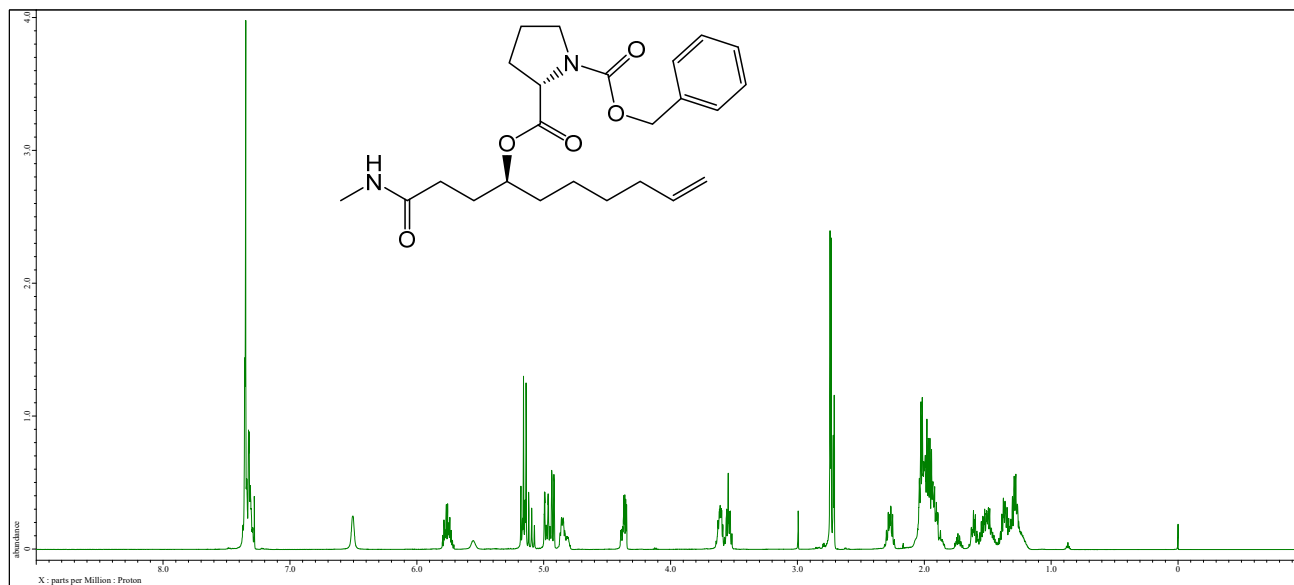
¹³C NMR (150 MHz, CDCl₃)

(4*R*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-9-decenamide (3c_{1st})



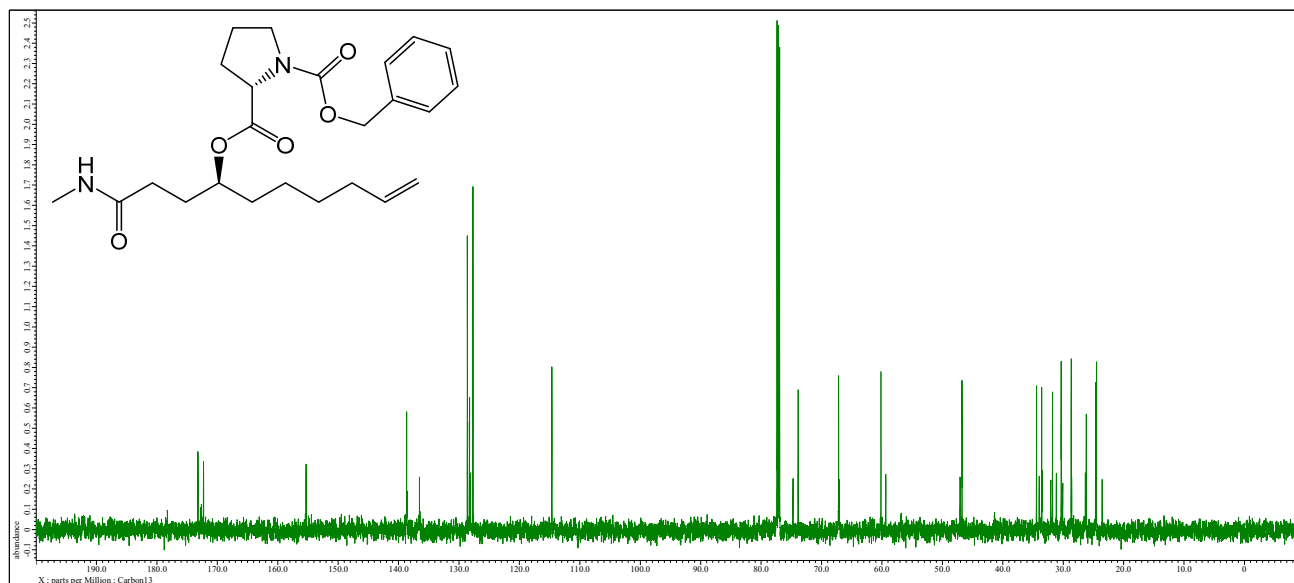
¹H NMR (600 MHz, CDCl₃)

(4*S*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-9-decenamide (3c_{2nd})



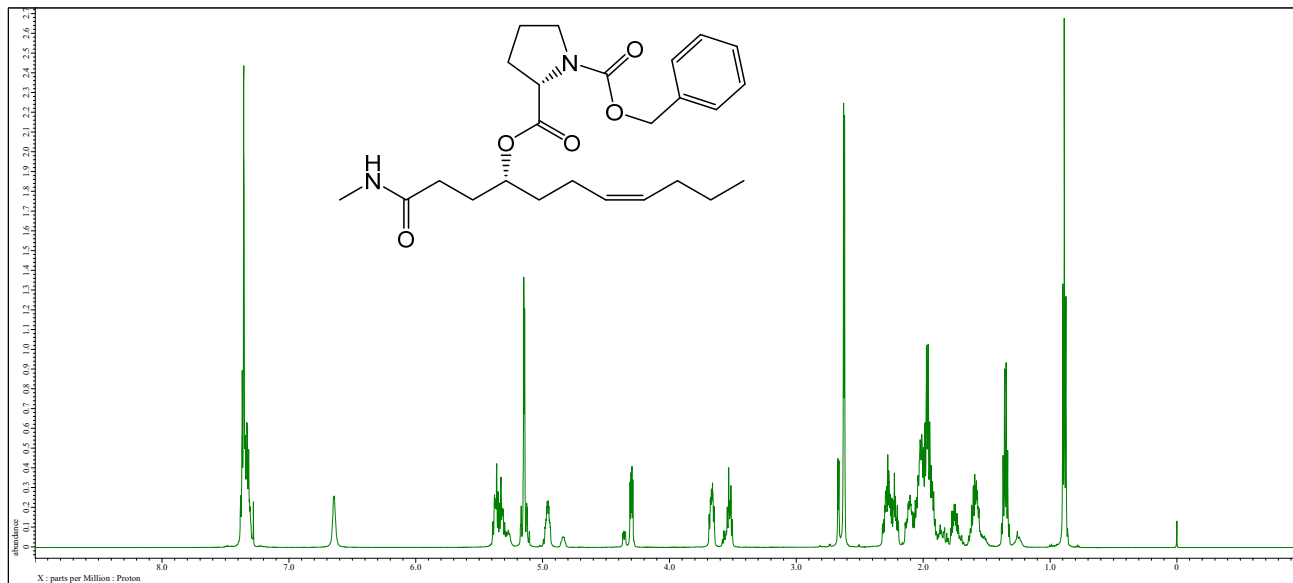
¹³C NMR (150 MHz, CDCl₃)

(4*S*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-9-decenamide (3c_{2nd})



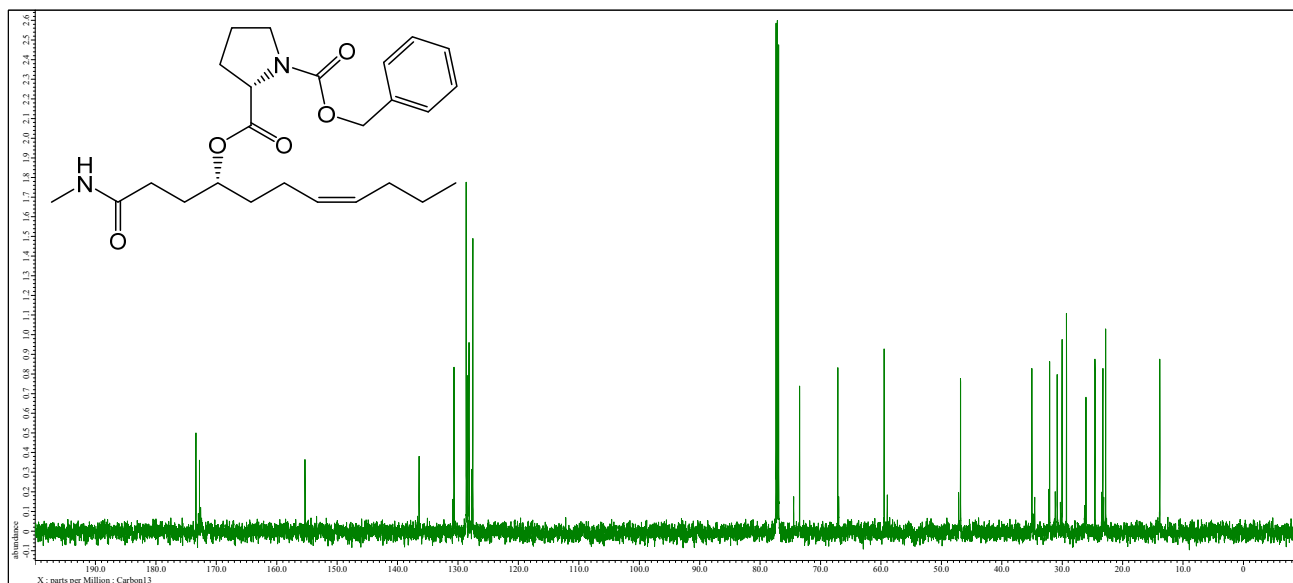
¹H NMR (600 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-undecenamide (3d_{1st})



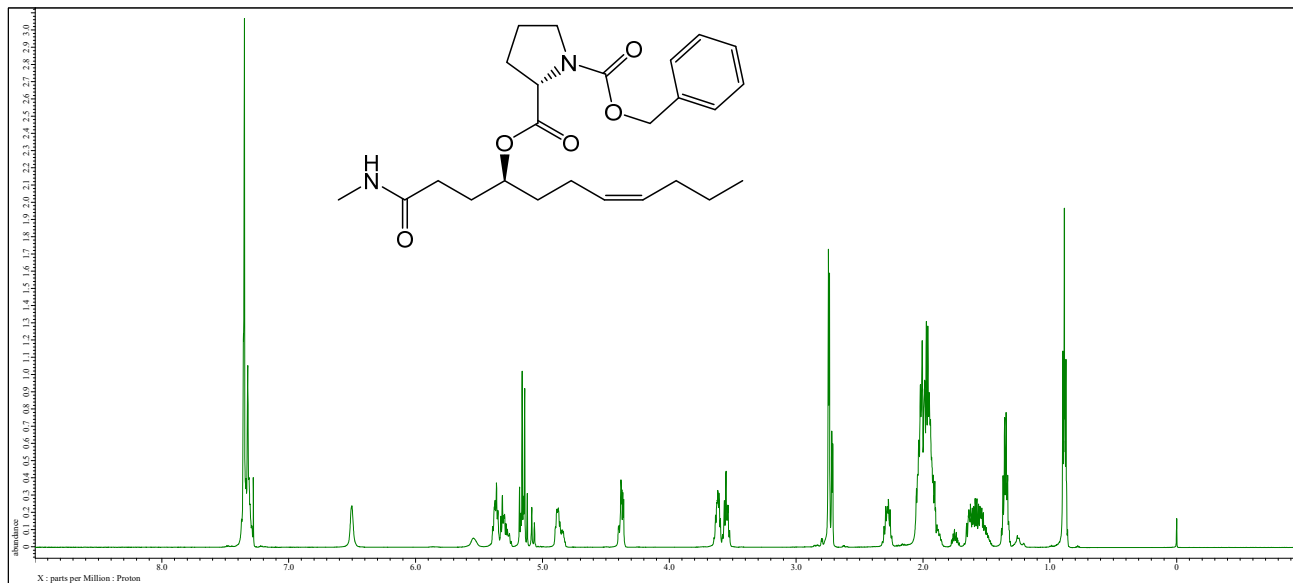
¹³C NMR (150 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-undecenamide (3d_{1st})



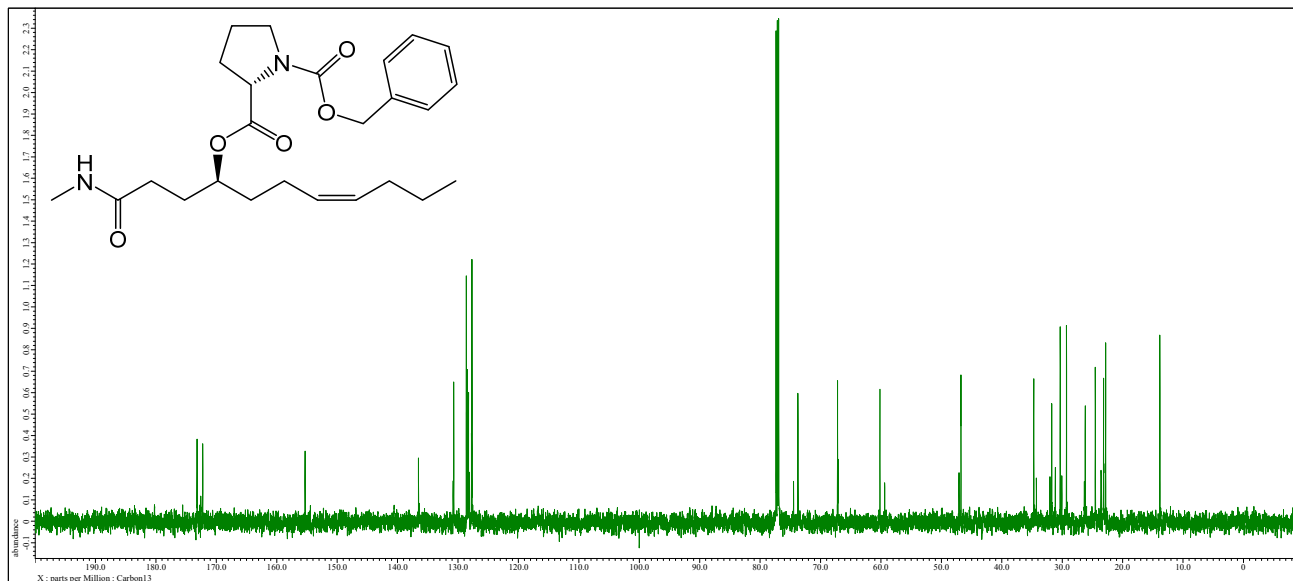
¹H NMR (600 MHz, CDCl₃)

(4*S*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-undecenamide (3d_{2nd})



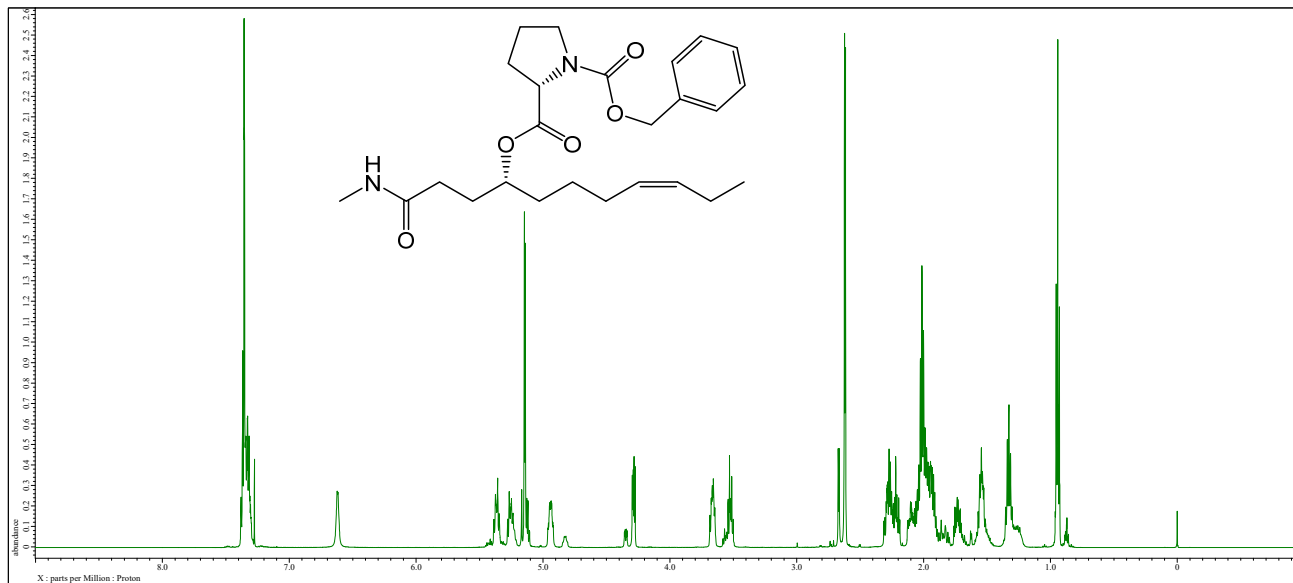
¹³C NMR (150 MHz, CDCl₃)

(4*S*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-undecenamide (3d_{2nd})



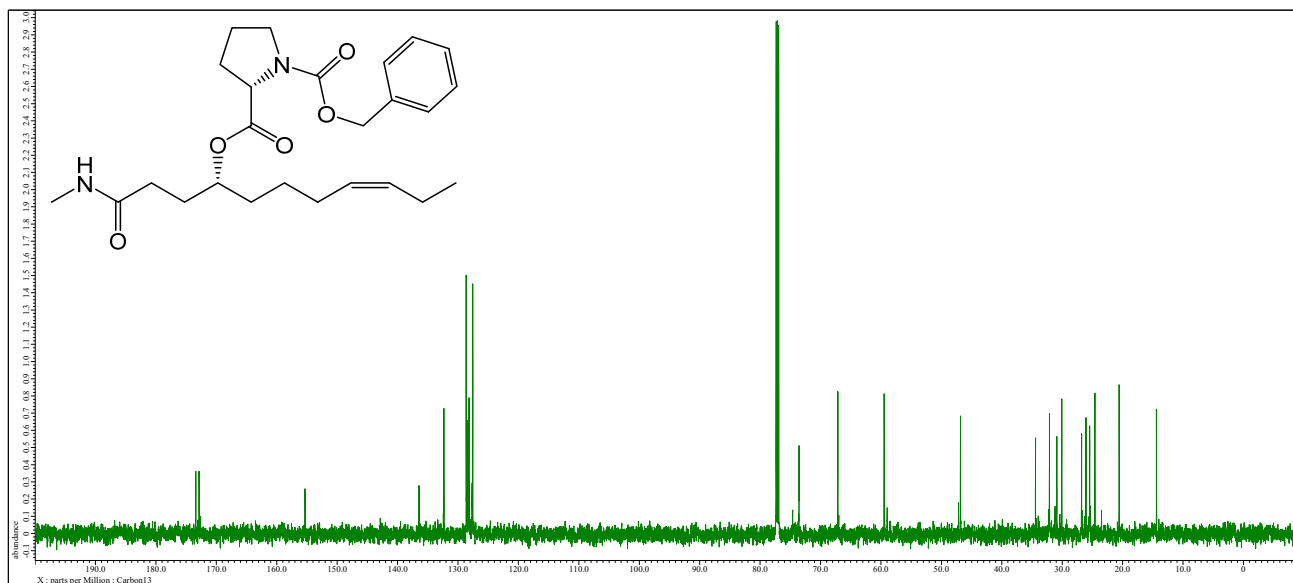
¹H NMR (600 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoxy]-8-undecenamide (3e_{1st})



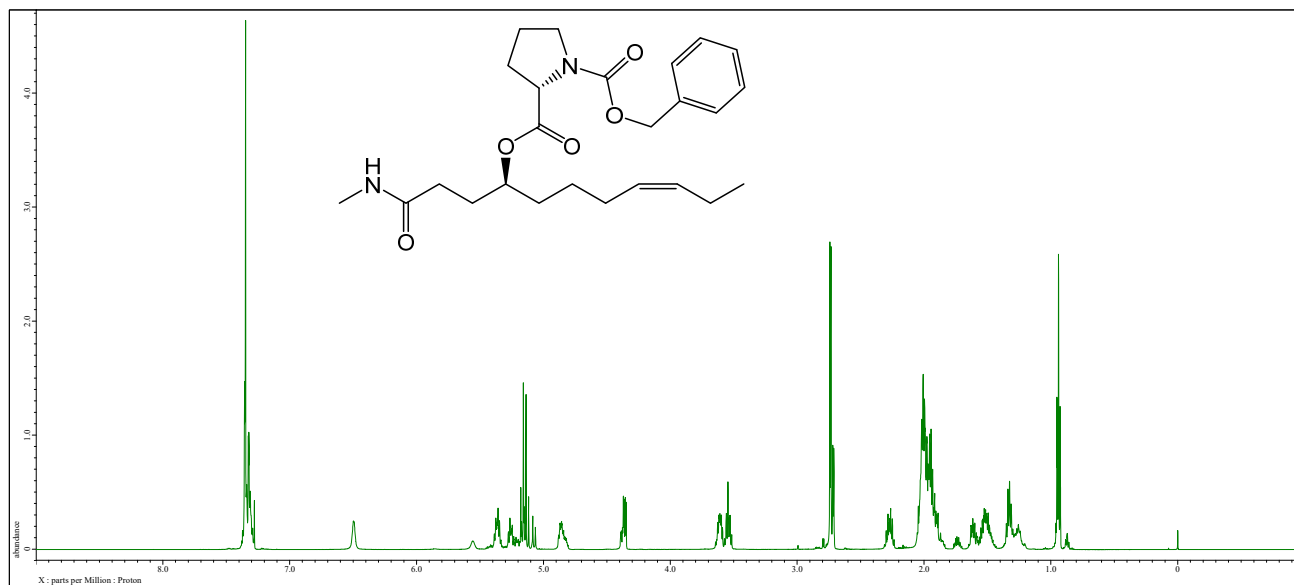
¹³C NMR (150 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoxy]-8-undecenamide (3e_{1st})



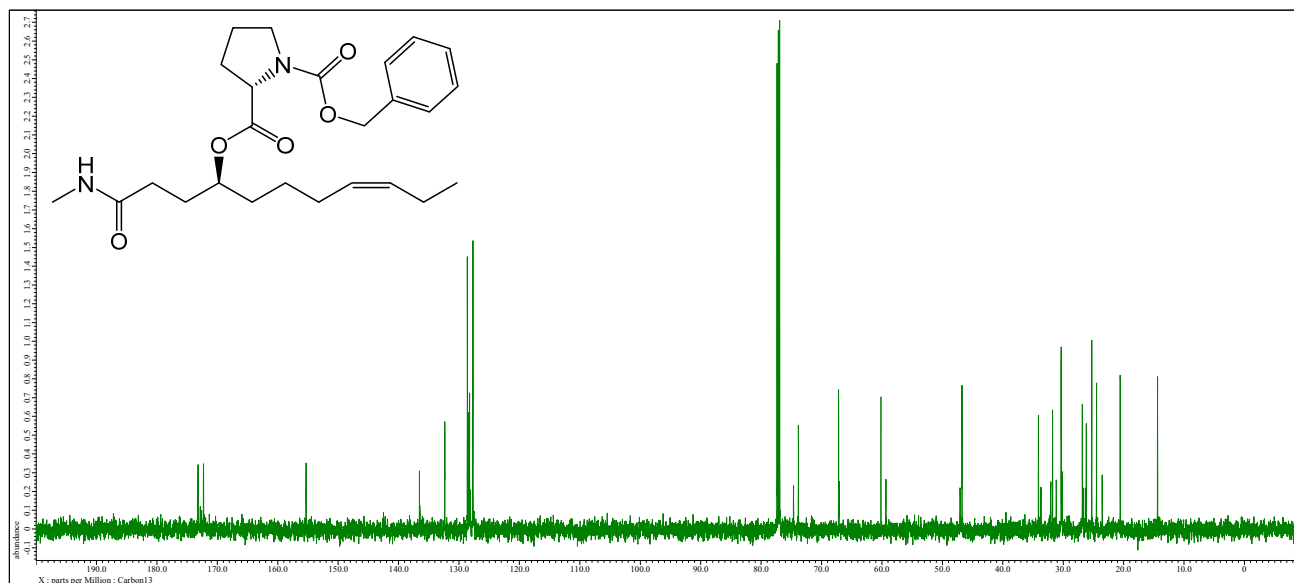
¹H NMR (600 MHz, CDCl₃)

(4*S*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-8-undecenamide (3e_{2nd})



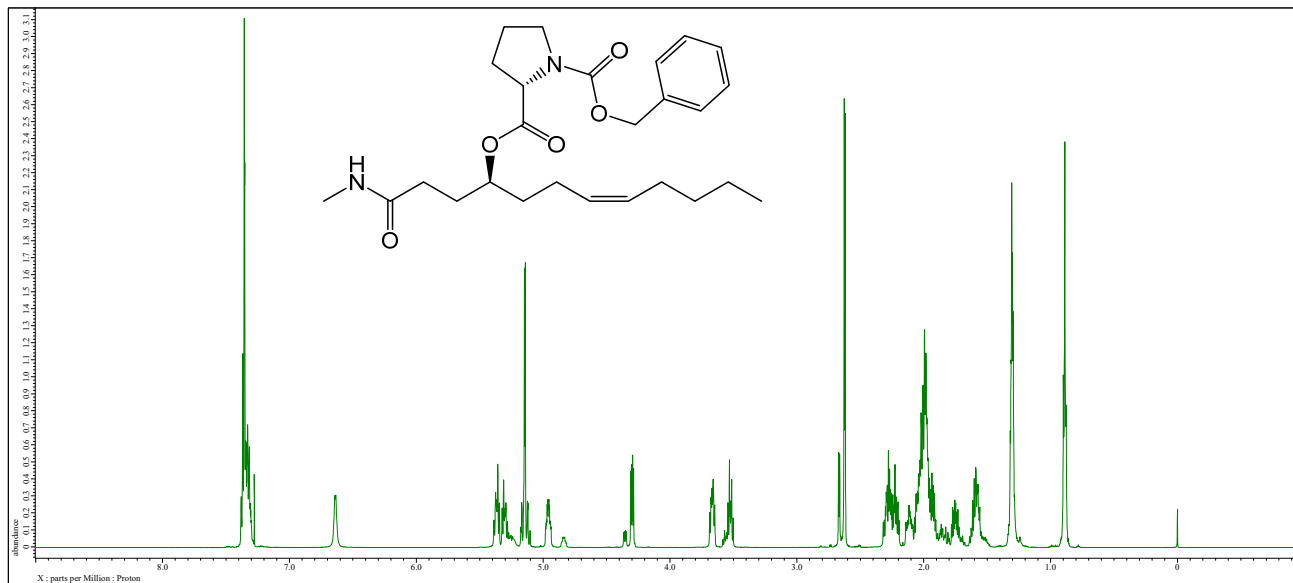
¹³C NMR (150 MHz, CDCl₃)

(4*S*,8*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-8-undecenamide (3e_{2nd})



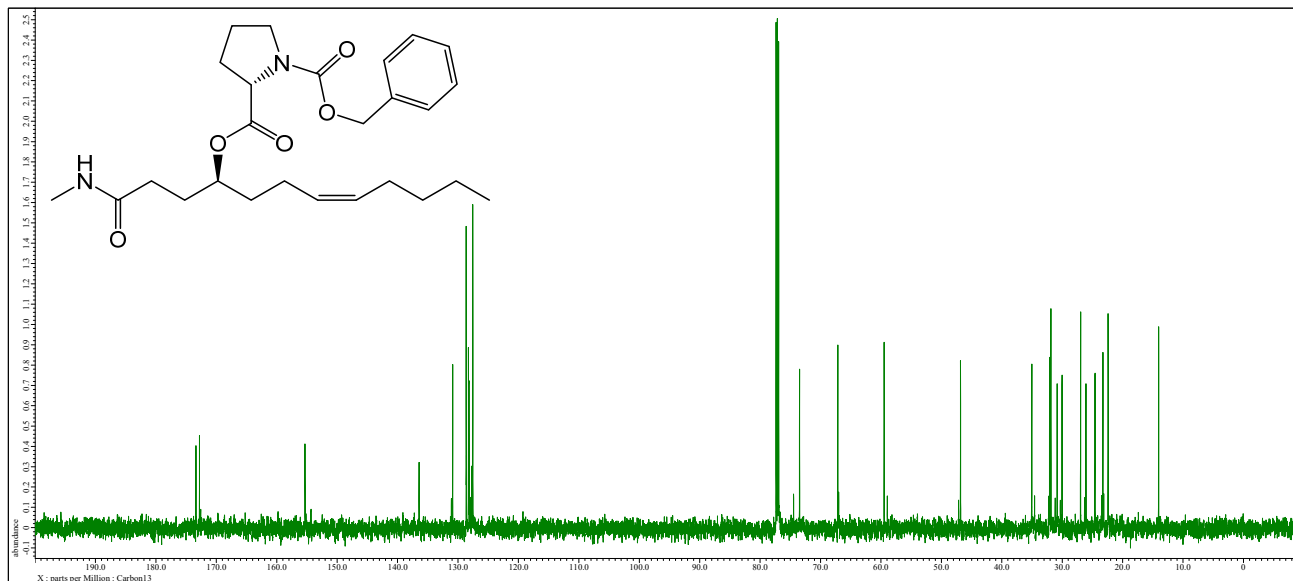
¹H NMR (600 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-dodecenamide (3f_{1st})



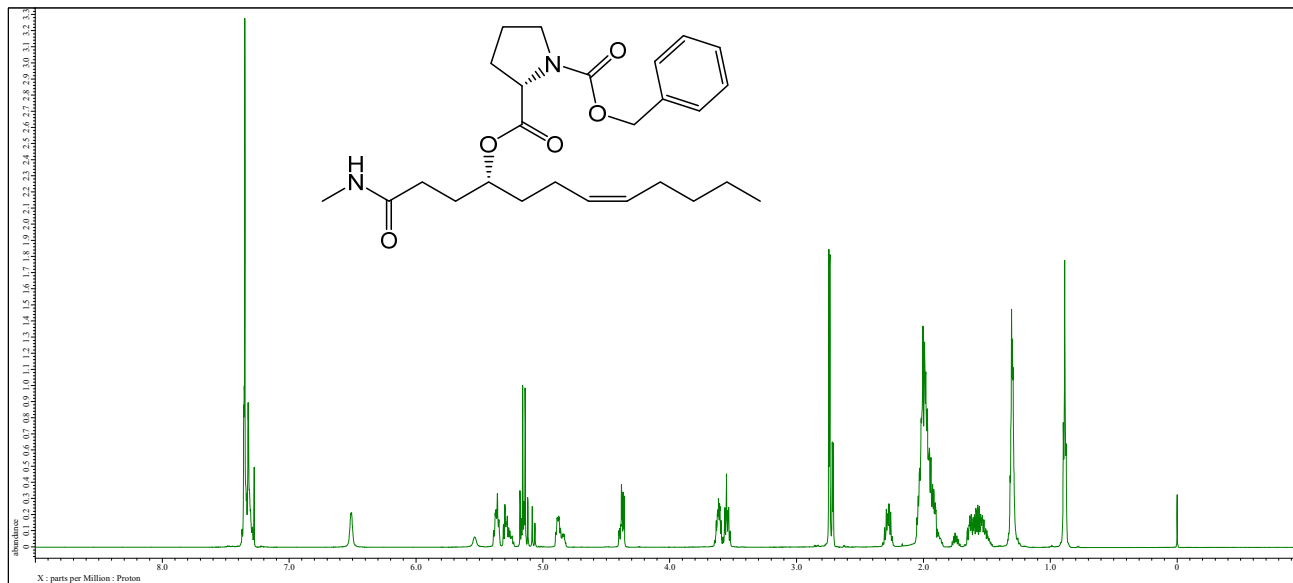
¹³C NMR (150 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-dodecenamide (3f_{1st})



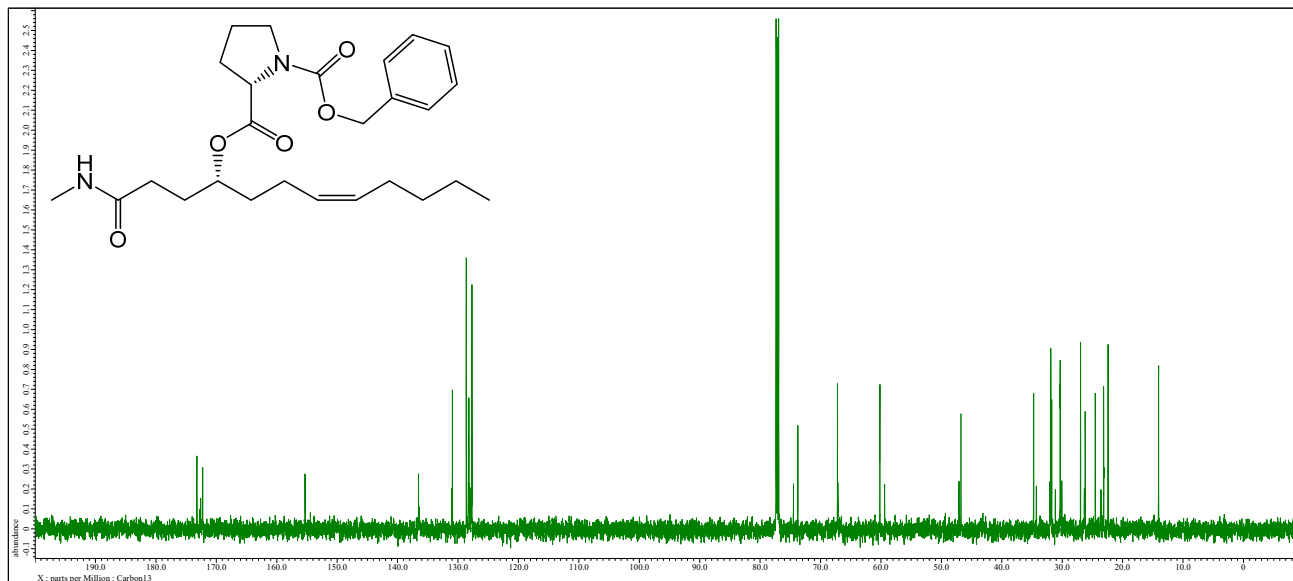
¹H NMR (600 MHz, CDCl₃)

(4*S*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-dodecenamide (3f_{2nd})



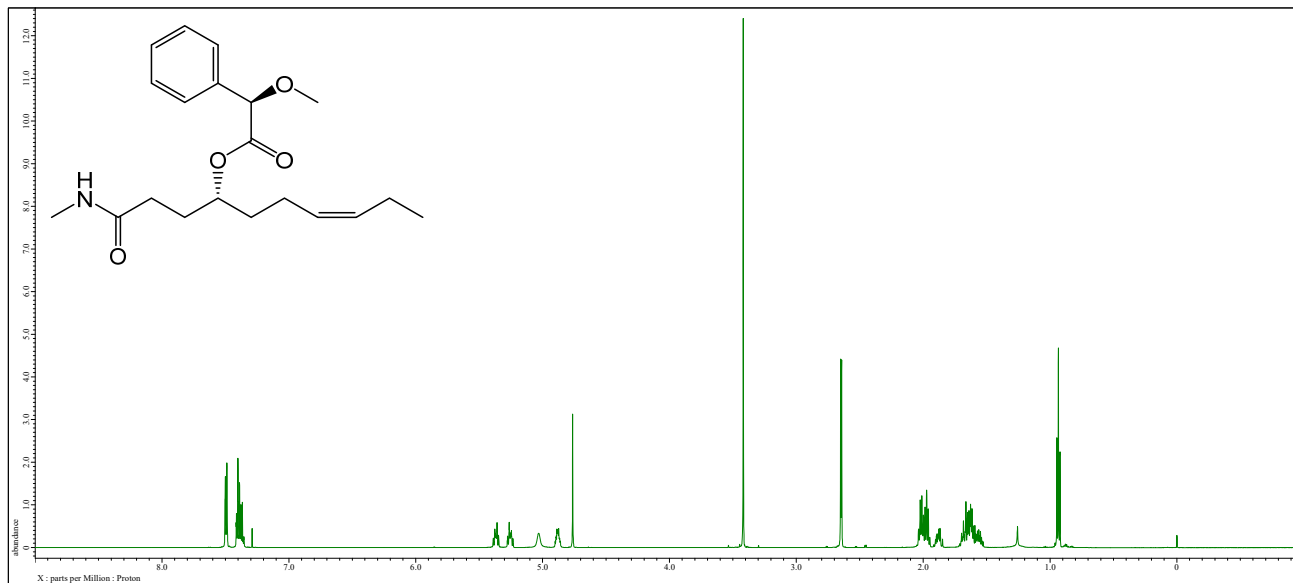
¹³C NMR (150 MHz, CDCl₃)

(4*S*,7*Z*)-*N*-Methyl-4-[(2*S*)-*N*-(benzyloxy)carbonyl-2-pyrrolidinylmethanoyloxy]-7-dodecenamide (3f_{2nd})



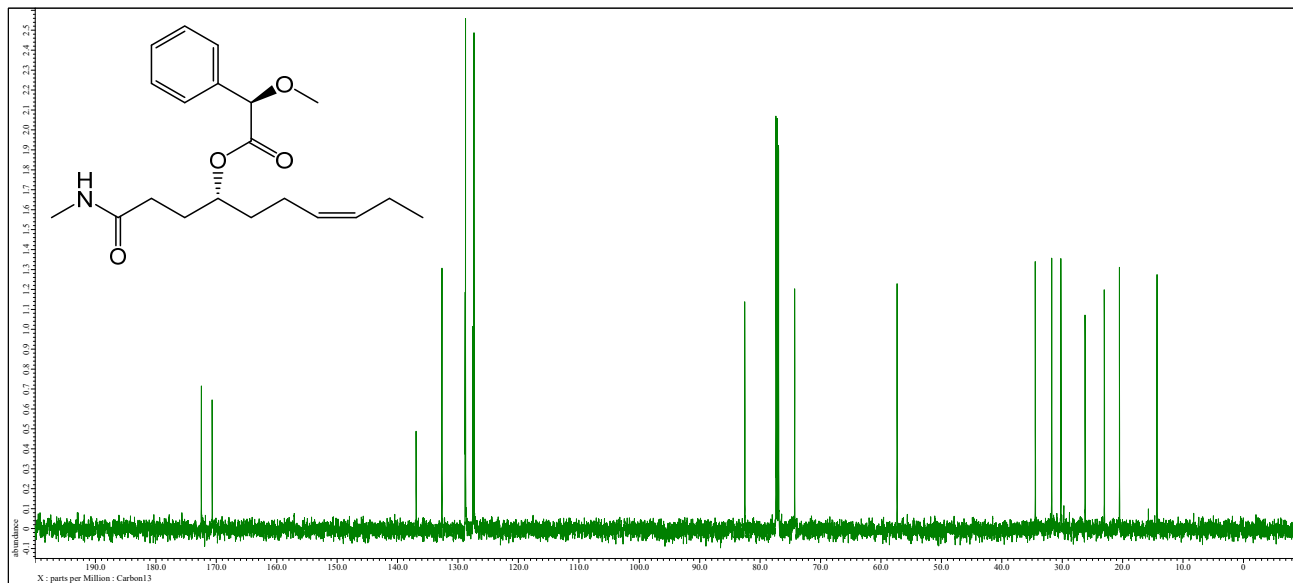
¹H NMR (600 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*R*)-2-methoxy-2-phenylethanoyloxy]-7-decenamide [(4*R*,2'*R*)-4a]



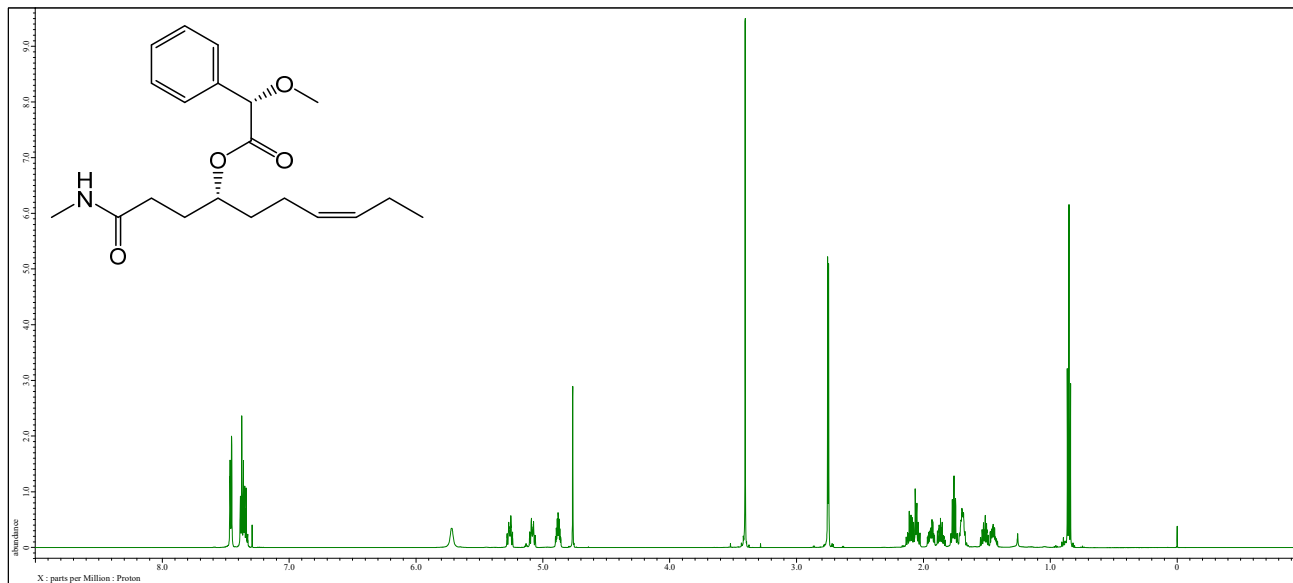
¹³C NMR (150 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*R*)-2-methoxy-2-phenylethanoyloxy]-7-decenamide [(4*R*,2'*R*)-4a]



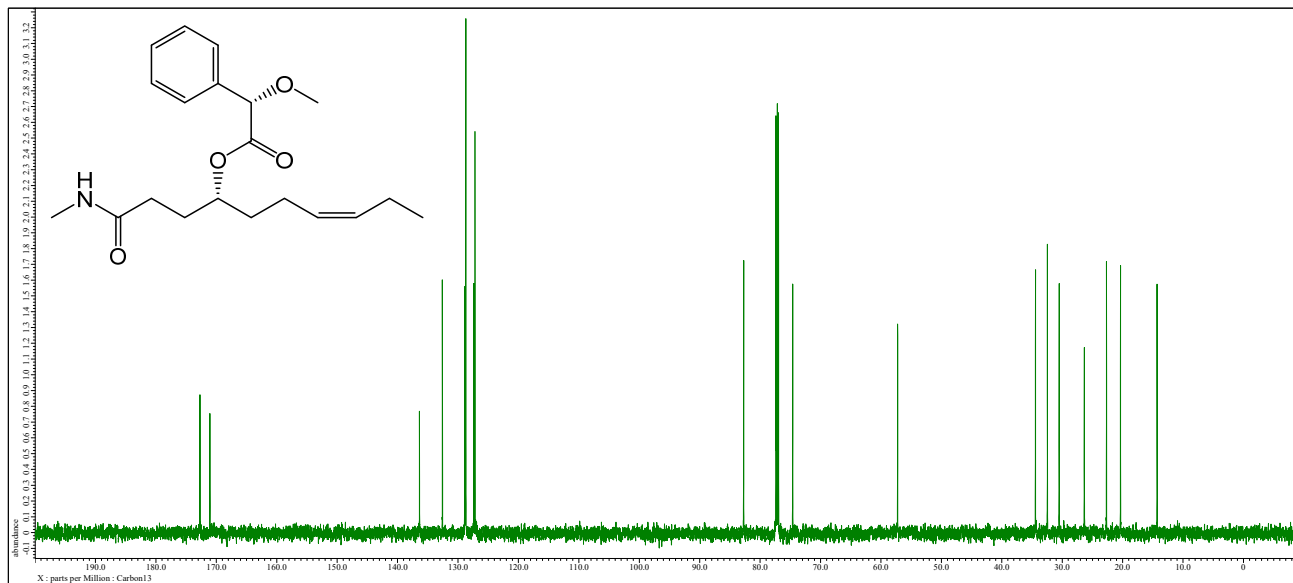
¹H NMR (600 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-2-methoxy-2-phenylethanoyloxy]-7-decenamide [(4*R*,2'*S*)-4a]



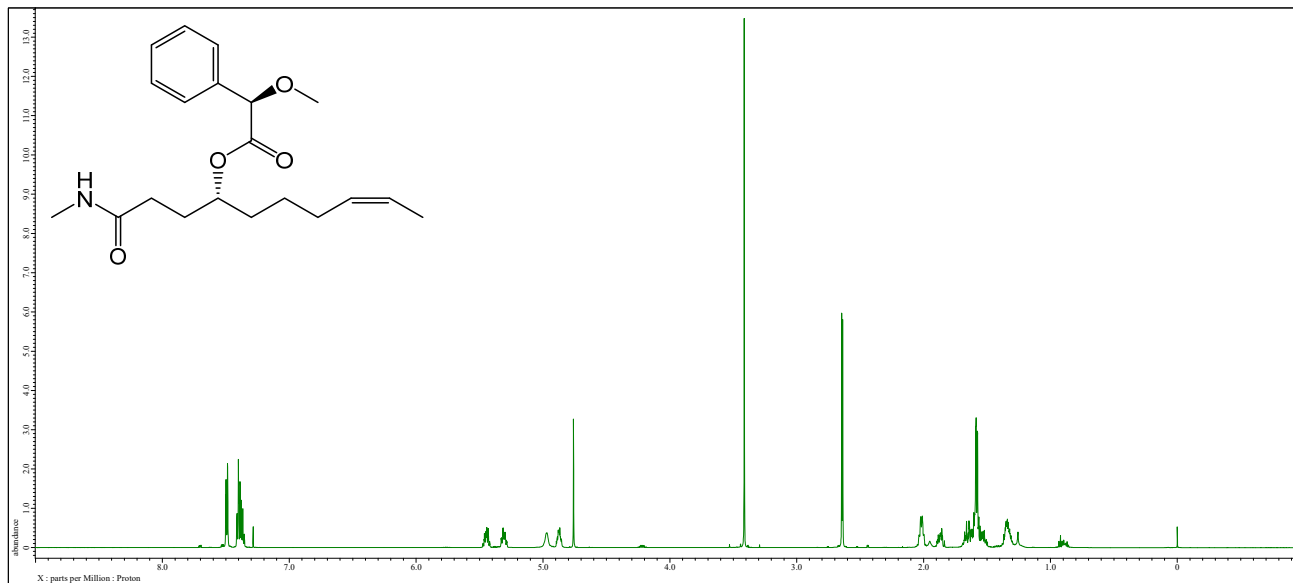
¹³C NMR (150 MHz, CDCl₃)

(4*R*,7*Z*)-*N*-Methyl-4-[(2*S*)-2-methoxy-2-phenylethanoyloxy]-7-decenamide [(4*R*,2'*S*)-4a]



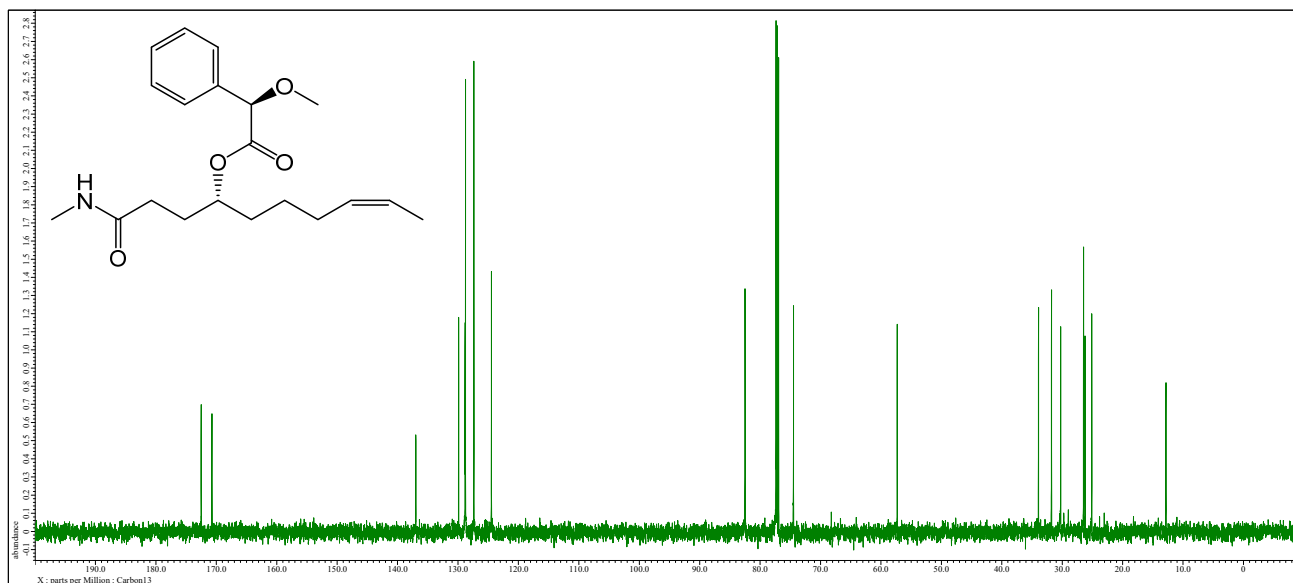
¹H NMR (600 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*R*)-2-methoxy-2-phenylethanoyloxy]-8-decenamide [(4*R*,2'*R*)-4b]



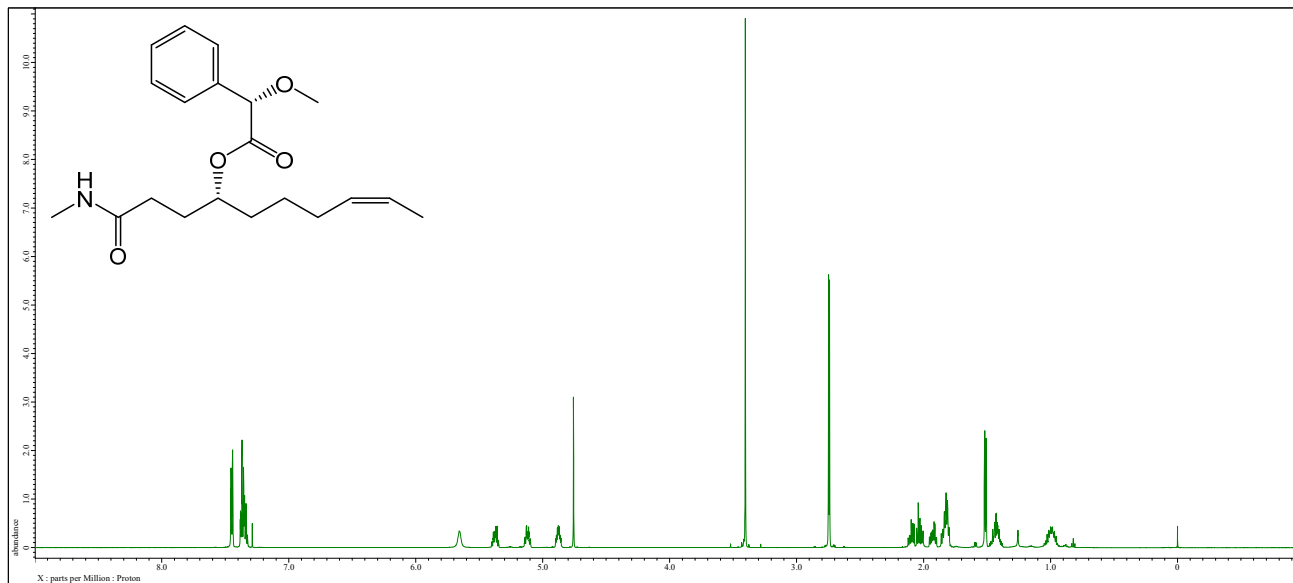
¹³C NMR (150 MHz, CDCl₃) (Z)-7-Dodecen-4-olide (1f)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*R*)-2-methoxy-2-phenylethanoyloxy]-8-decenamide [(4*R*,2'*R*)-4b]



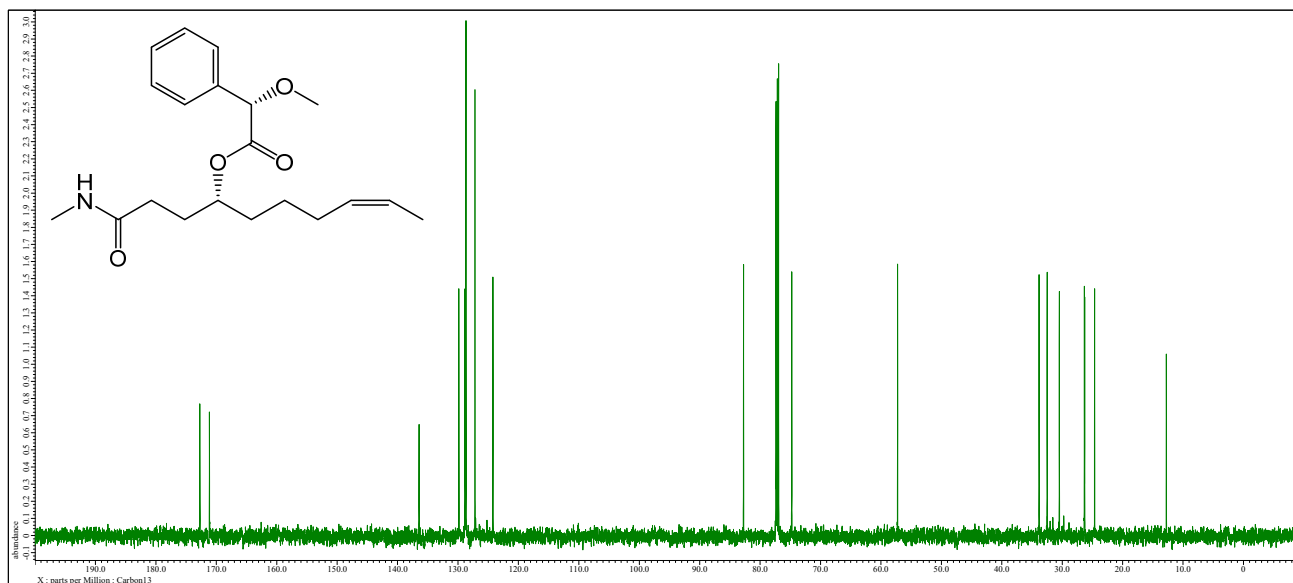
¹H NMR (600 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*S*)-2-methoxy-2-phenylethanoyloxy]-8-decenamide [(4*R*,2'*S*)-4b]



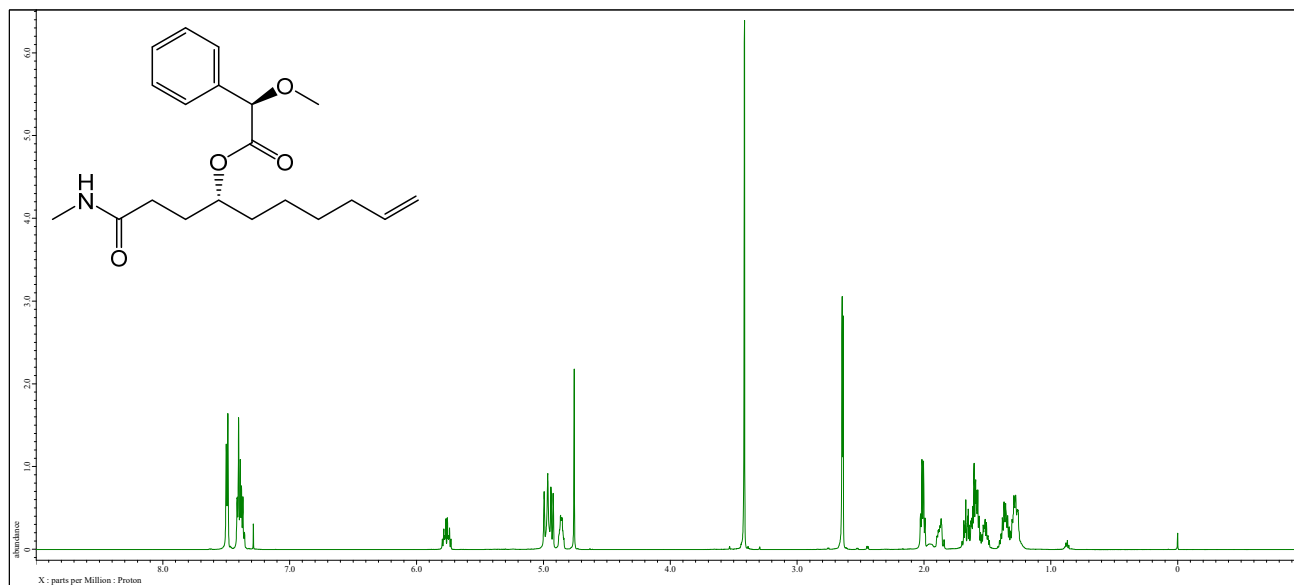
¹³C NMR (150 MHz, CDCl₃)

(4*R*,8*Z*)-*N*-Methyl-4-[(2*S*)-2-methoxy-2-phenylethanoyloxy]-8-decenamide [(4*R*,2'*S*)-4b]



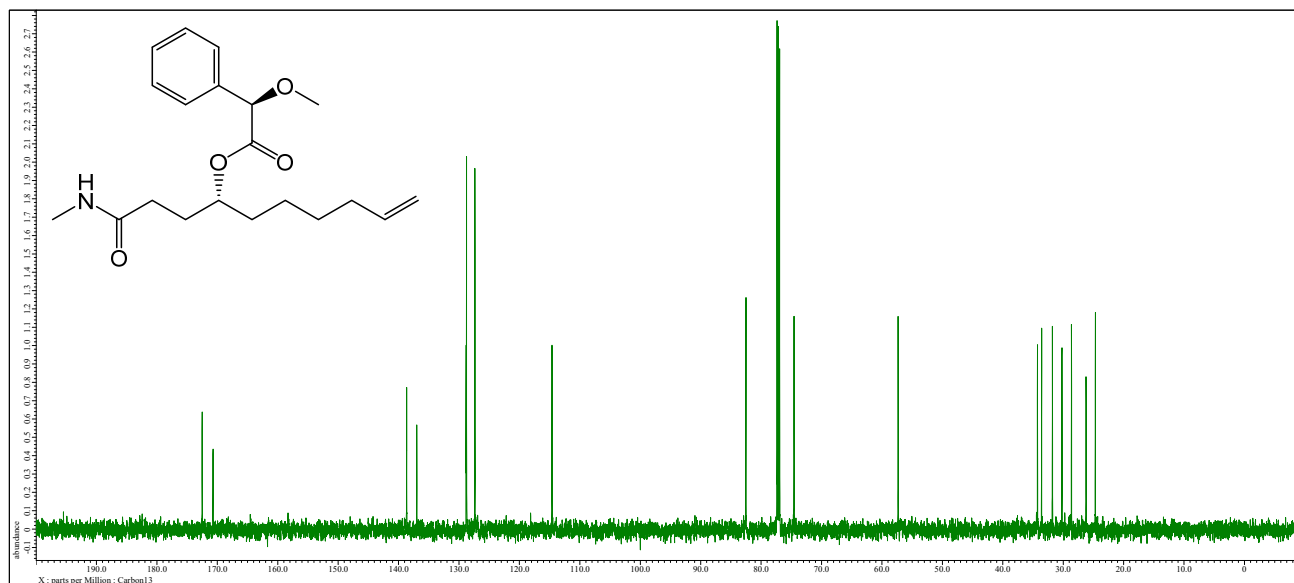
¹H NMR (600 MHz, CDCl₃)

(*R*)-*N*-Methyl-4-[(2*R*)-2-methoxy-2-phenylethanoyloxy]-9-decenamide [(4*R*,2'*R*)-4c]



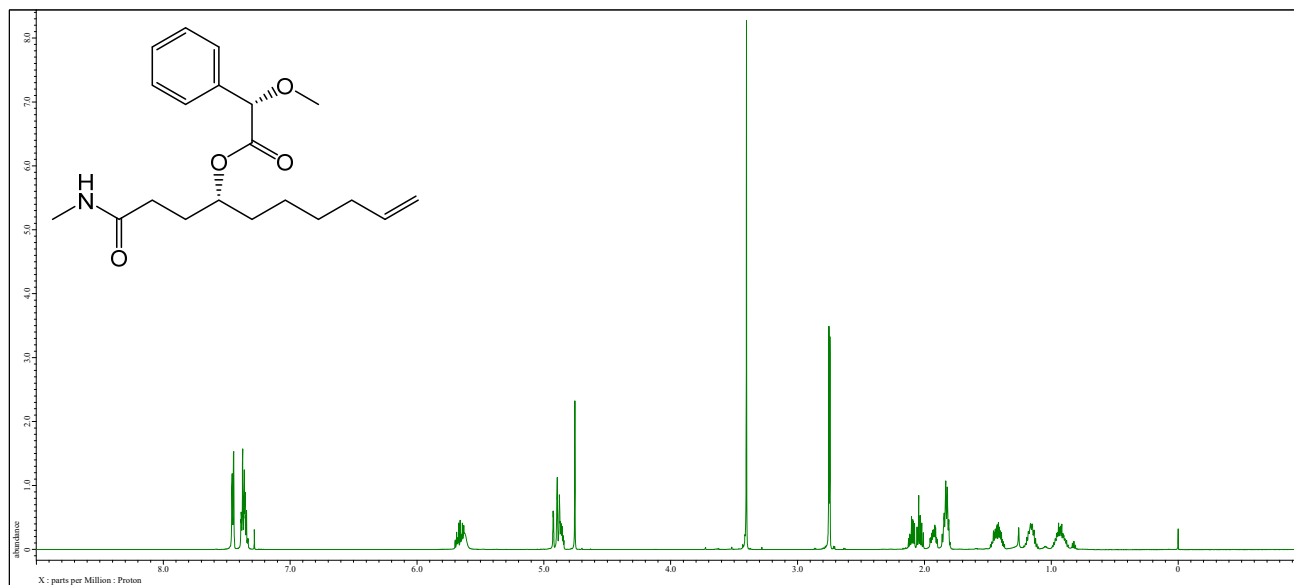
¹³C NMR (150 MHz, CDCl₃)

(*R*)-*N*-Methyl-4-[(2*R*)-2-methoxy-2-phenylethanoyloxy]-9-decenamide [(4*R*,2'*R*)-4c]



¹H NMR (600 MHz, CDCl₃)

(*R*)-*N*-Methyl-4-[(2*S*)-2-methoxy-2-phenylethanoxy]-9-decenamide [(4*R*,2'*S*)-4c]



¹³C NMR (150 MHz, CDCl₃)

(*R*)-*N*-Methyl-4-[(2*S*)-2-methoxy-2-phenylethanoxy]-9-decenamide [(4*R*,2'*S*)-4c]

