

Supplementary Material

Synthesis and isomerization of novel hydroxypyridinone–cinnamoyl hybrid compounds

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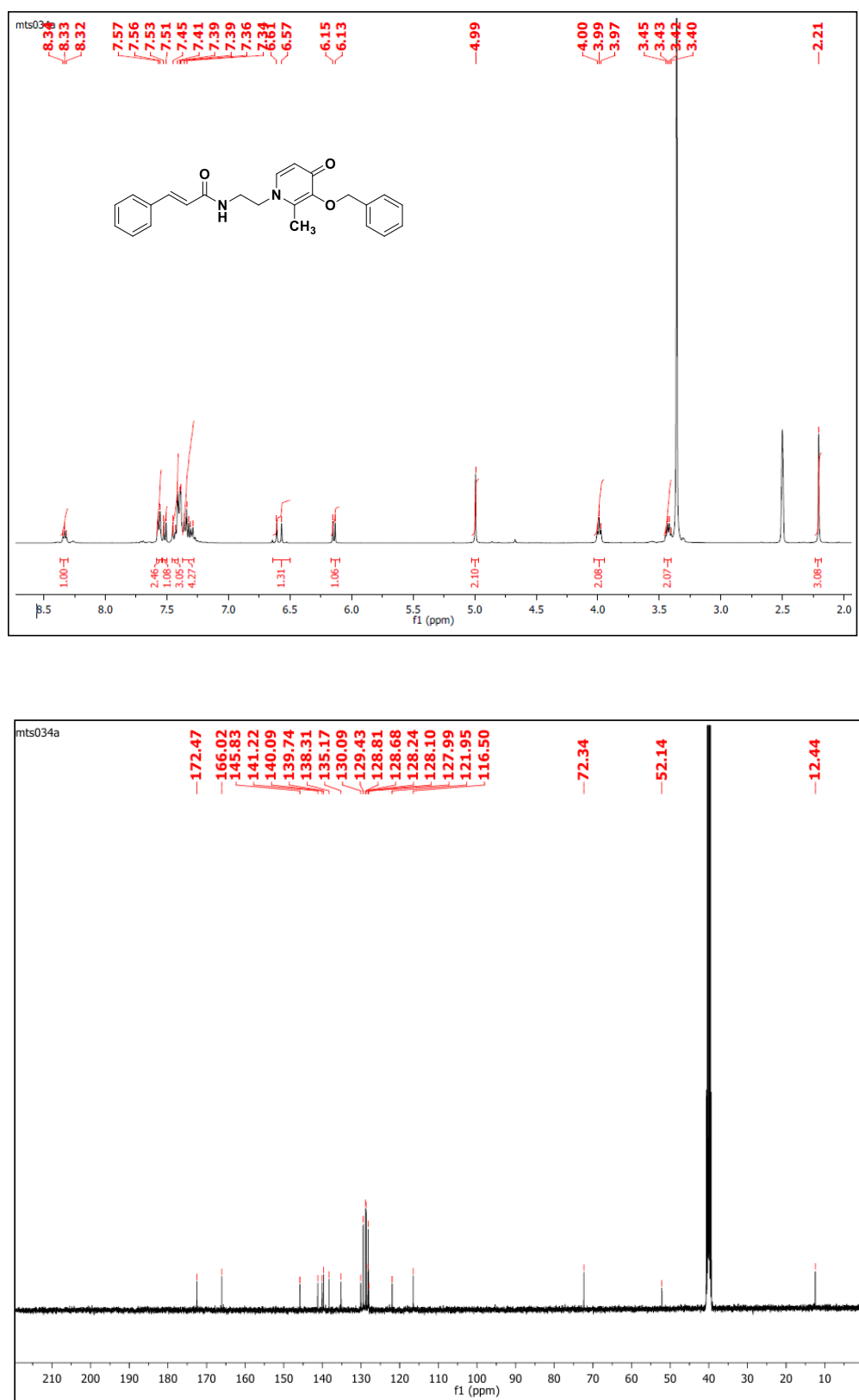


Figure S1. ¹H and ¹³C spectra of N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)-ethyl)cinnamide (**6a**)

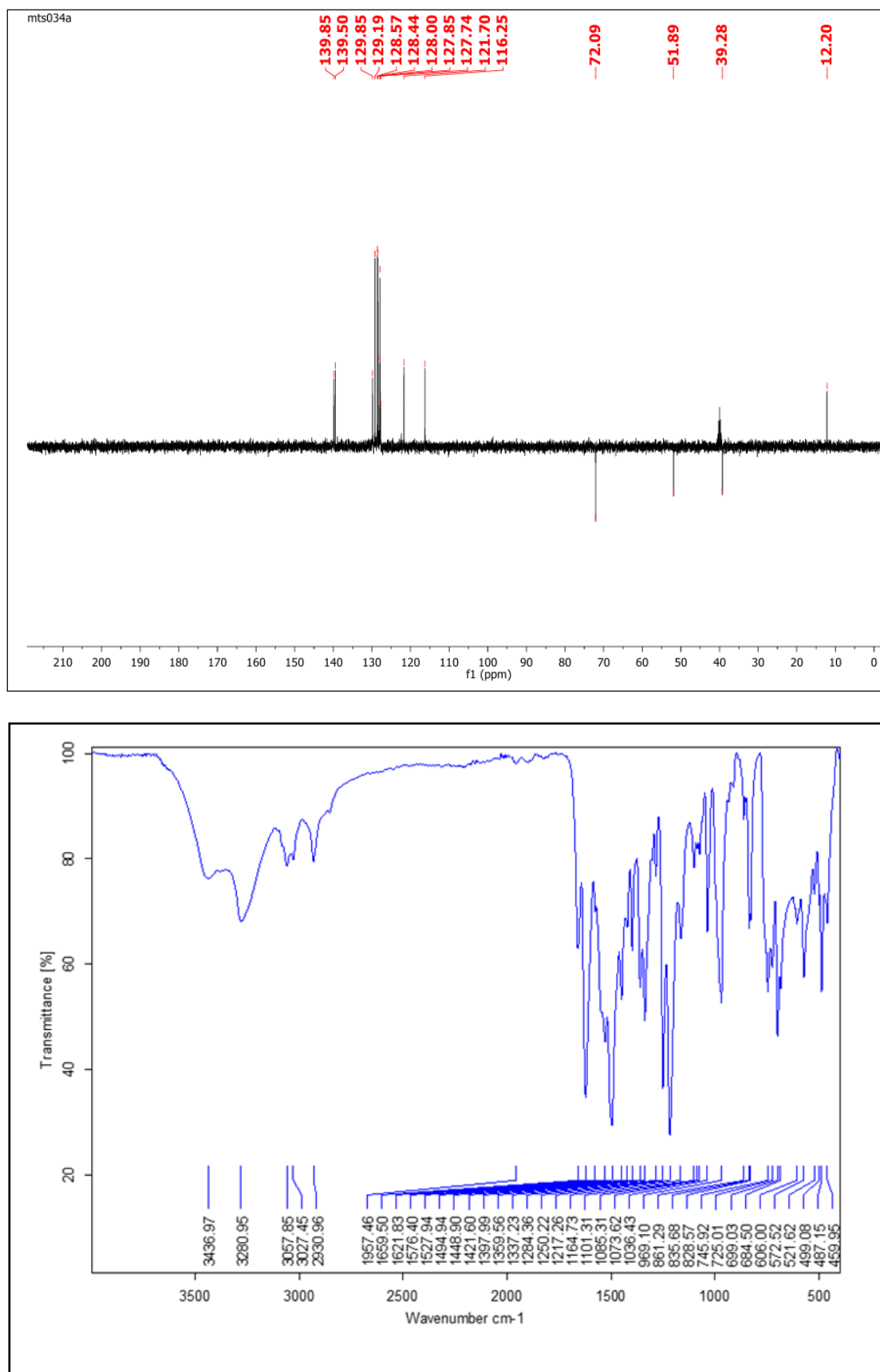


Figure S2. DEPT-135 and IR spectra of N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)-ethyl)cinnamamide (**6a**).

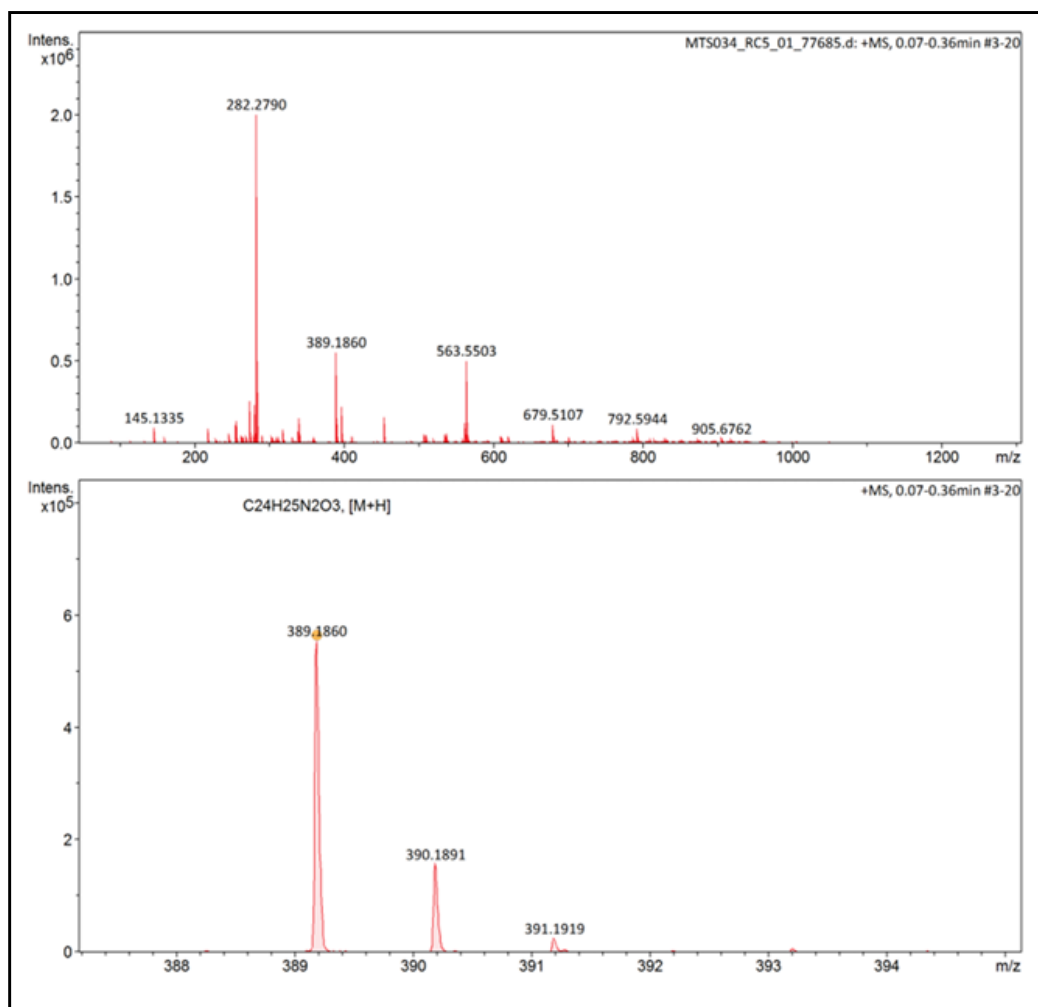


Figure S3. HRMS spectra of N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)cinnamamide (**6a**)

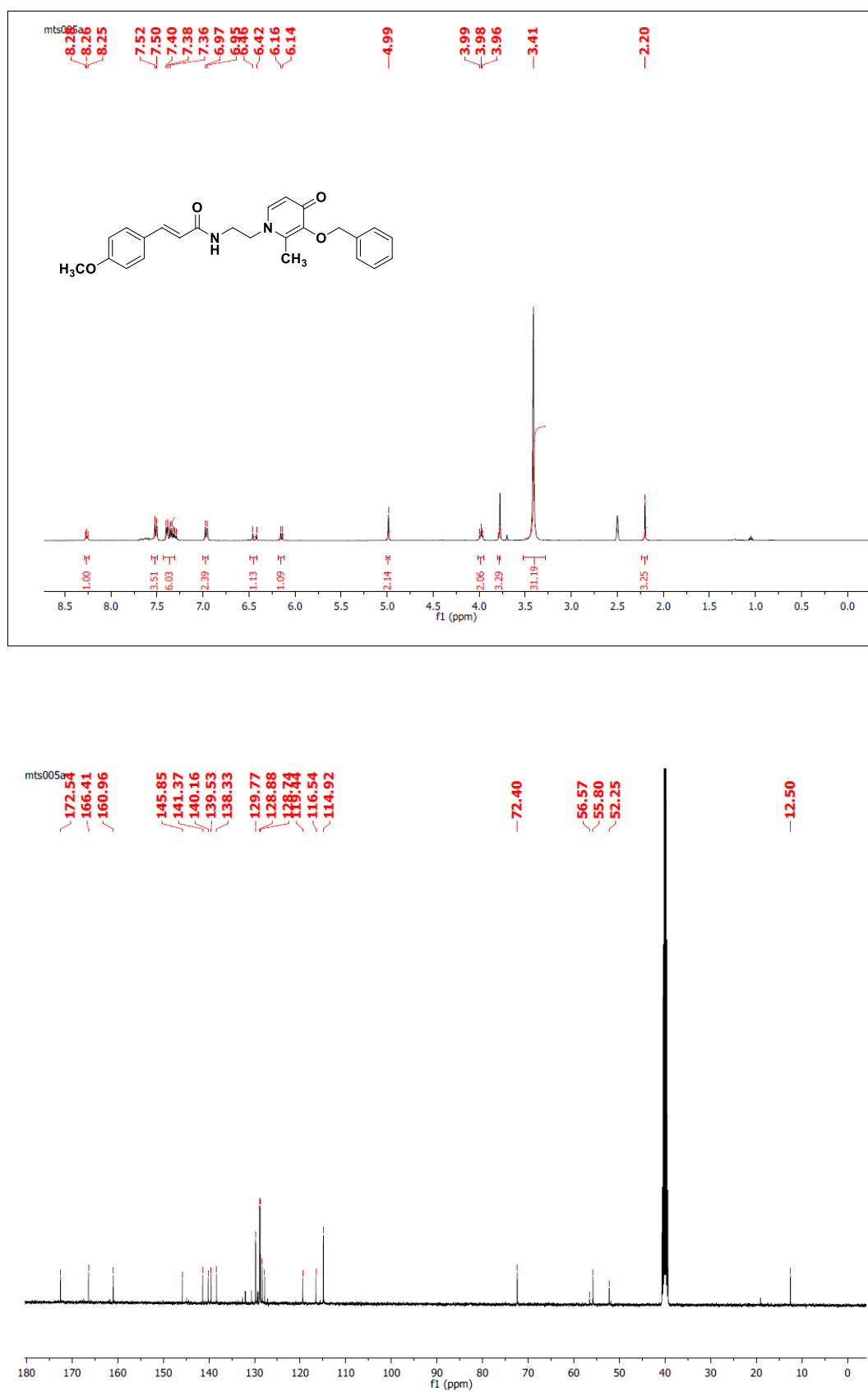


Figure S4. ¹H and ¹³C spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-methoxyphenyl)acrylamide (**6b**).

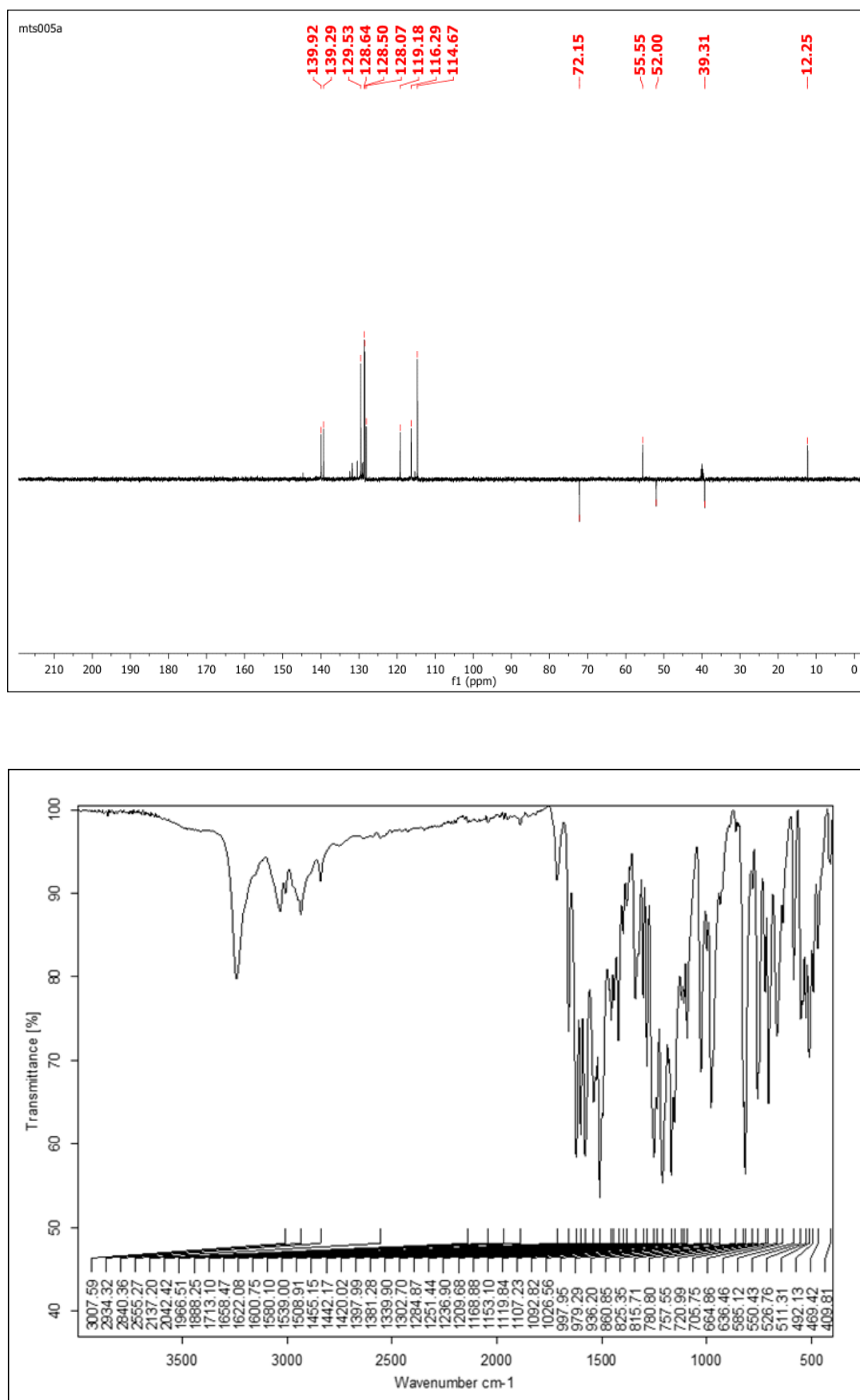


Figure S5. DEPT-135 and IR spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-methoxyphenyl)acrylamide (**6b**).

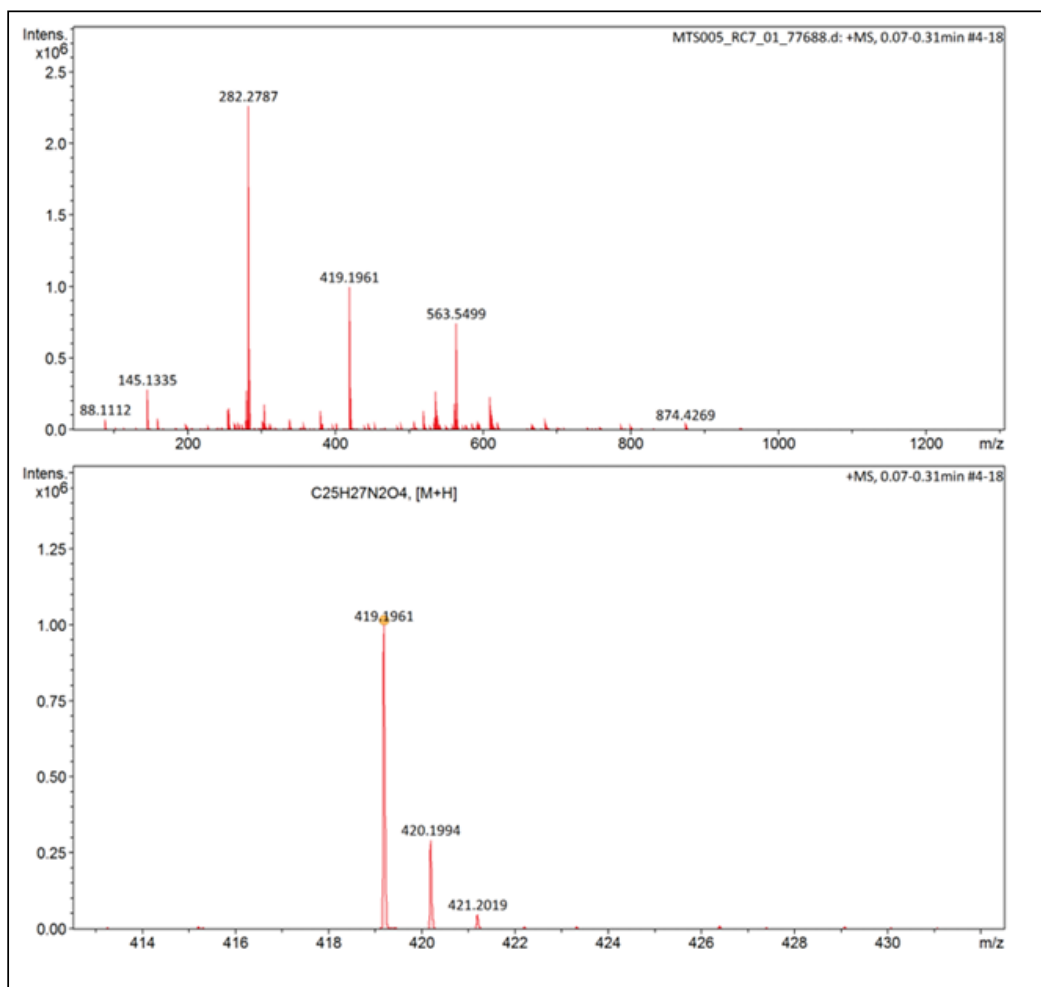


Figure S6. HRMS spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-methoxyphenyl)acrylamide (**6b**).

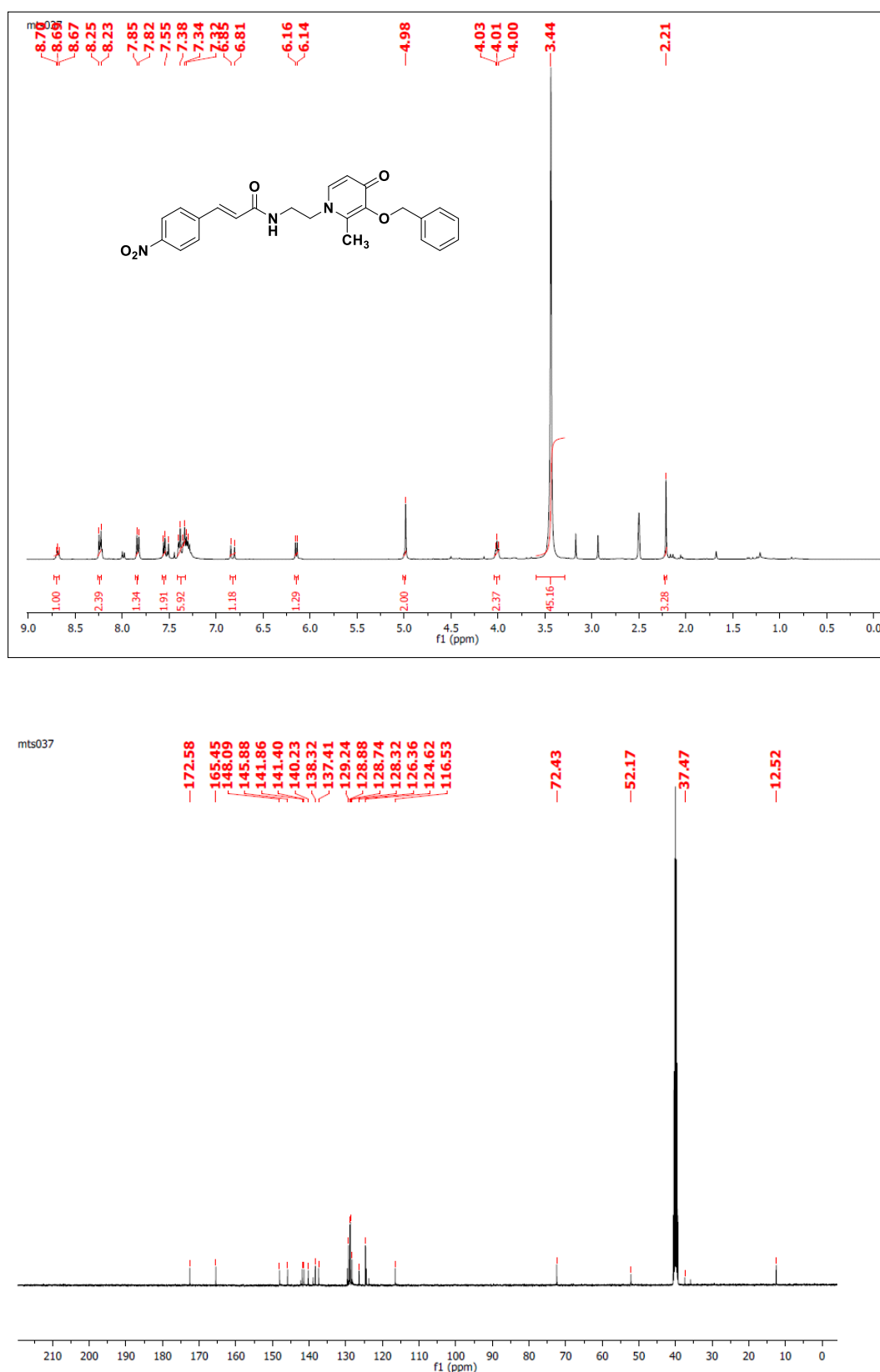


Figure S7. ¹H and ¹³C spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-nitrophenyl)acrylamide (**6c**).

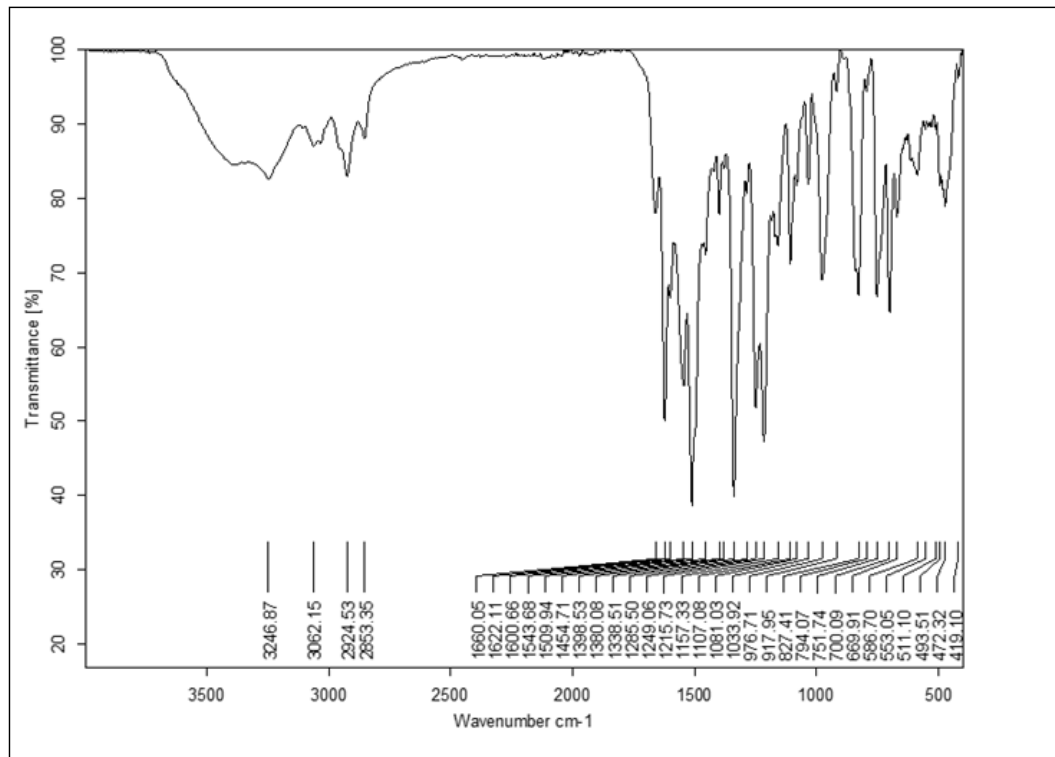
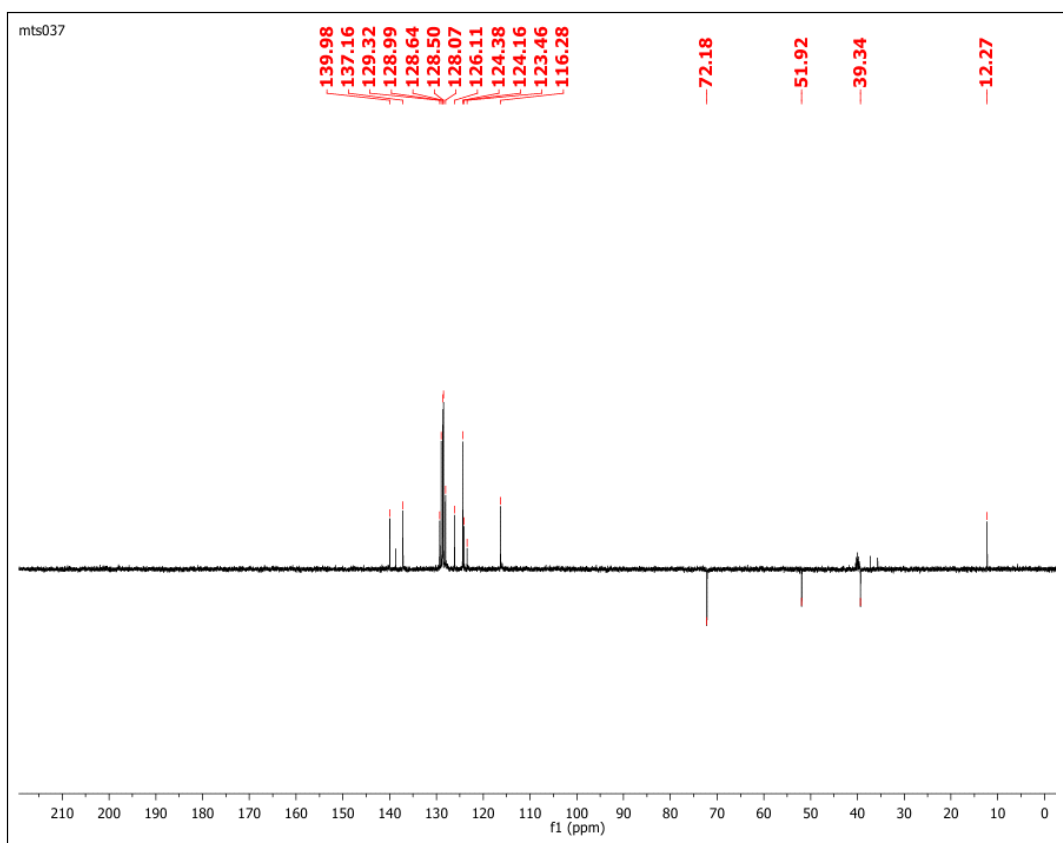


Figure S8. DEPT-135 and IR spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-nitrophenyl)acrylamide (**6c**).

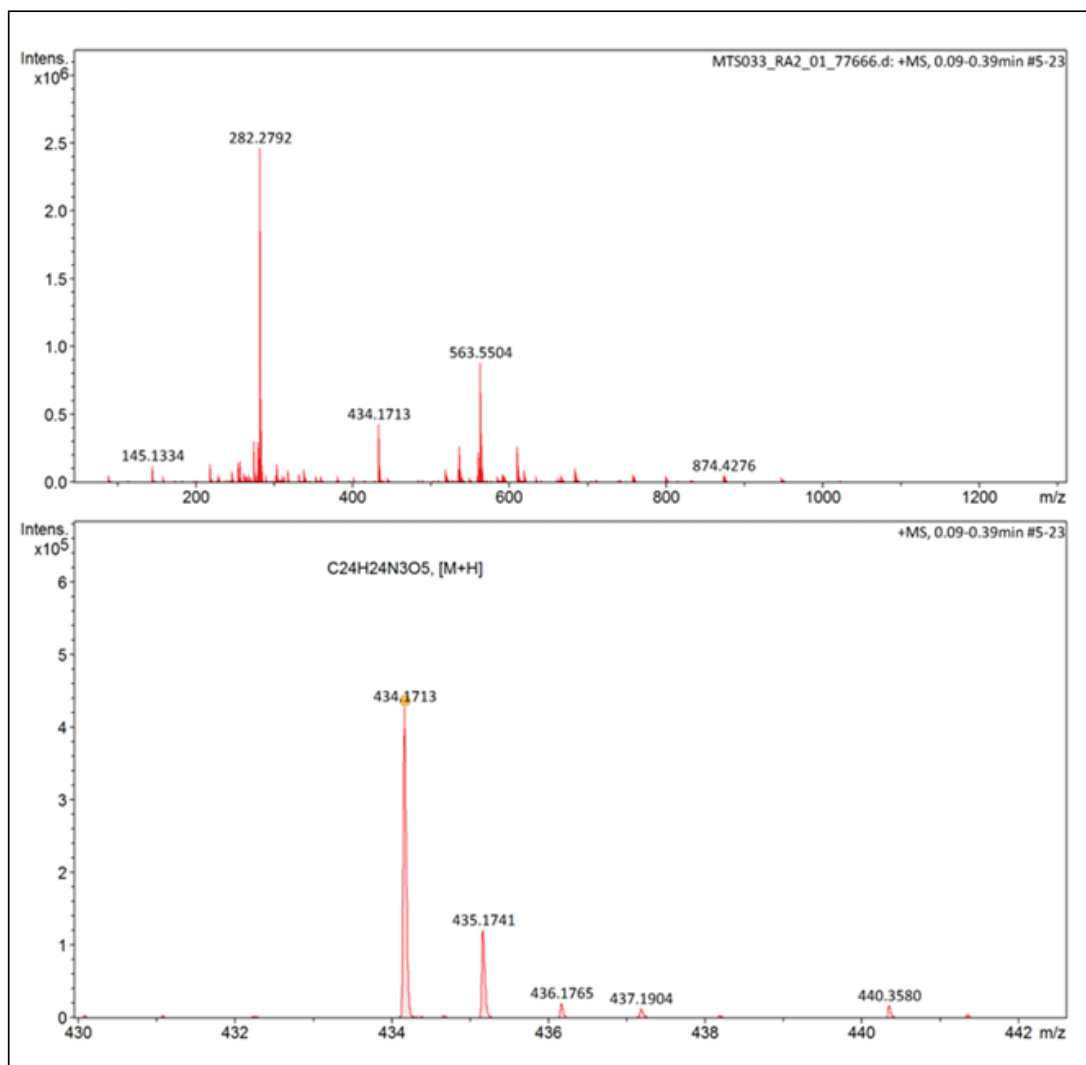


Figure S9. HRMS spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-nitrophenyl)acrylamide (**6c**).

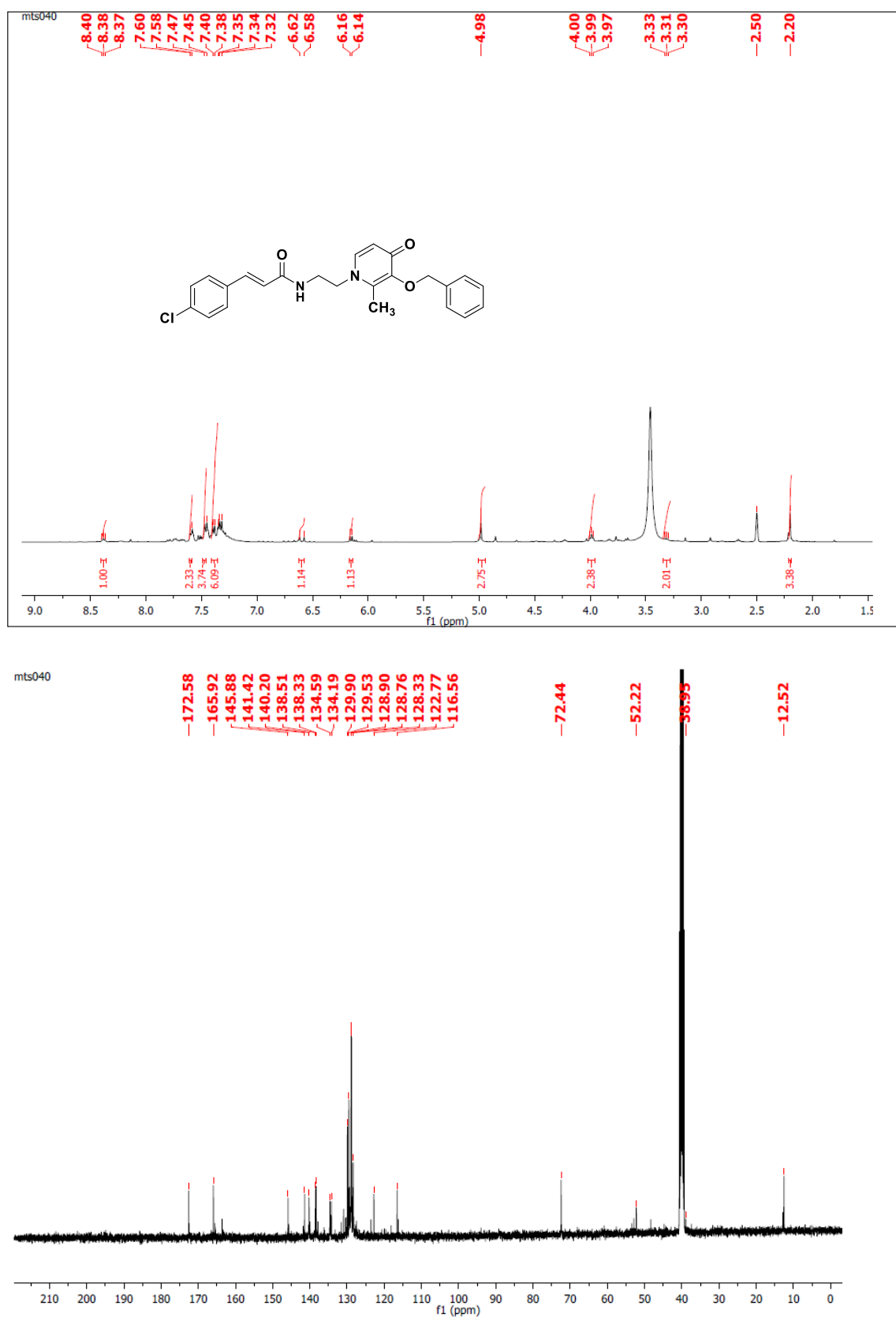


Figure S10. ¹H and ¹³C spectra of (E)-N-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)ethyl)-3-(4-chlorophenyl)acrylamide (**6d**).

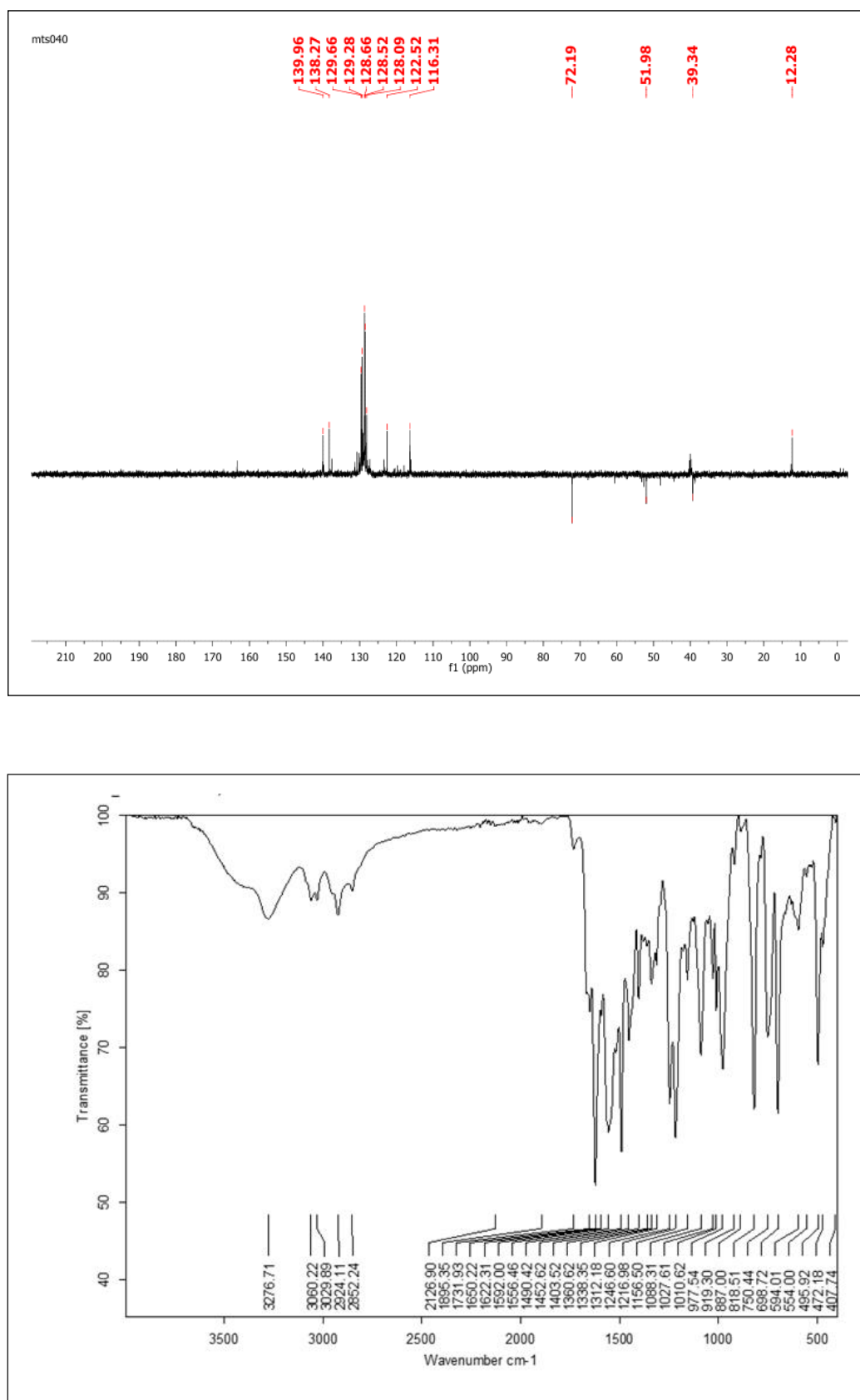


Figure S11. DEPT-135 and IR spectra of (*E*)-*N*-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)ethyl)-3-(4-chlorophenyl)acrylamide (**6d**).

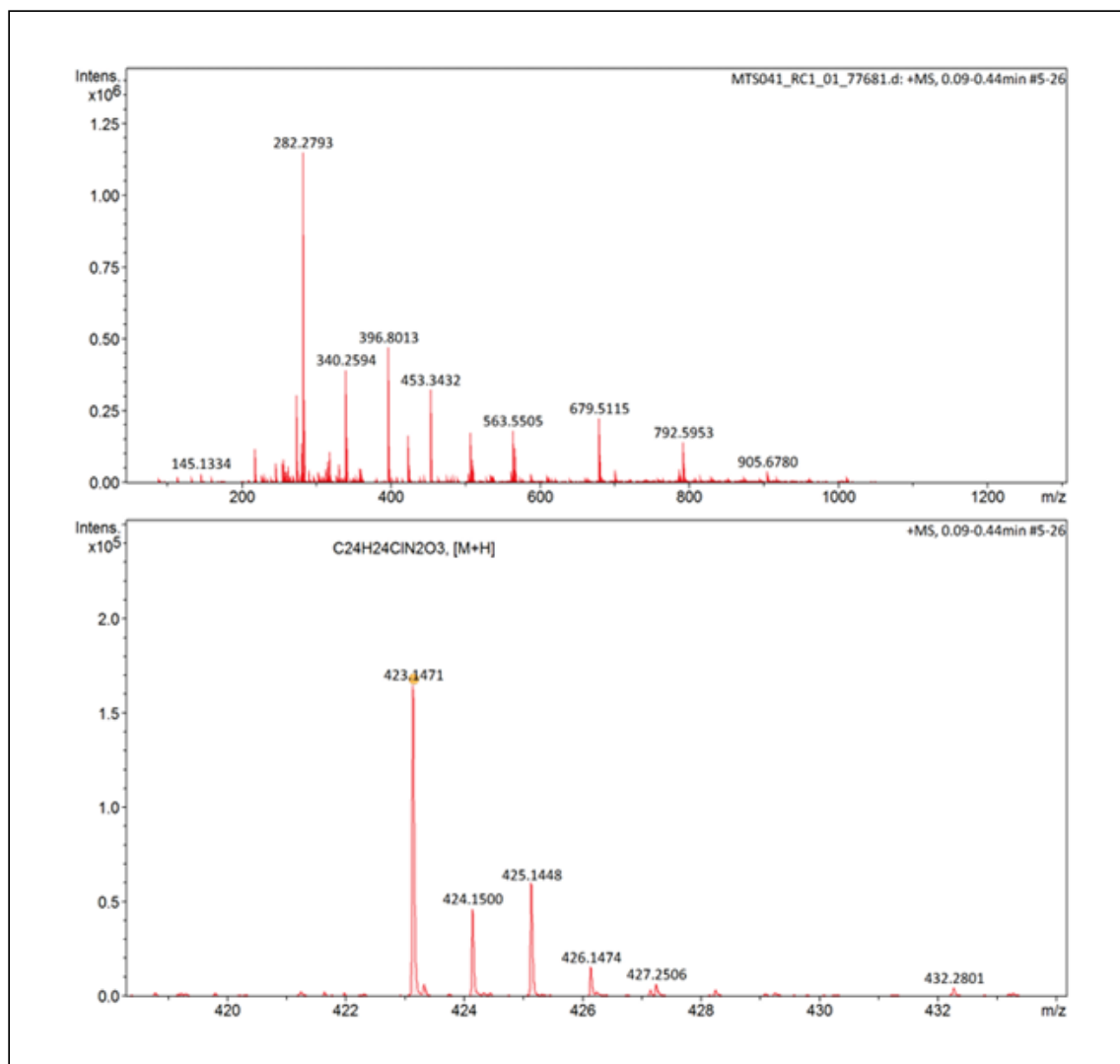


Figure S12. HRMS spectra of (*E*)-*N*-(2-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)ethyl)-3-(4-chlorophenyl)acrylamide (**6d**).

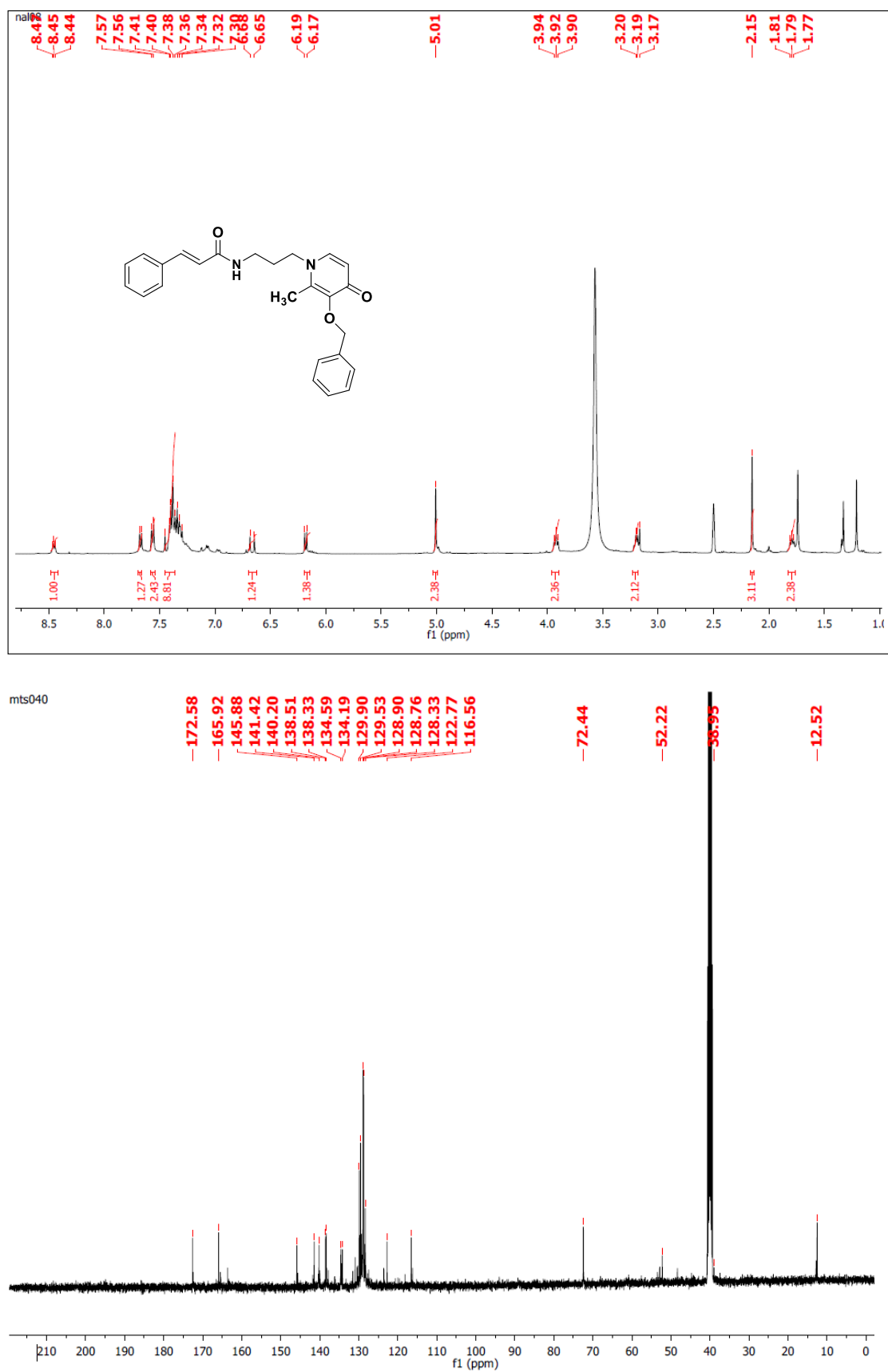


Figure S13. ^1H and ^{13}C spectra of *N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)cinnamamide (**6e**).

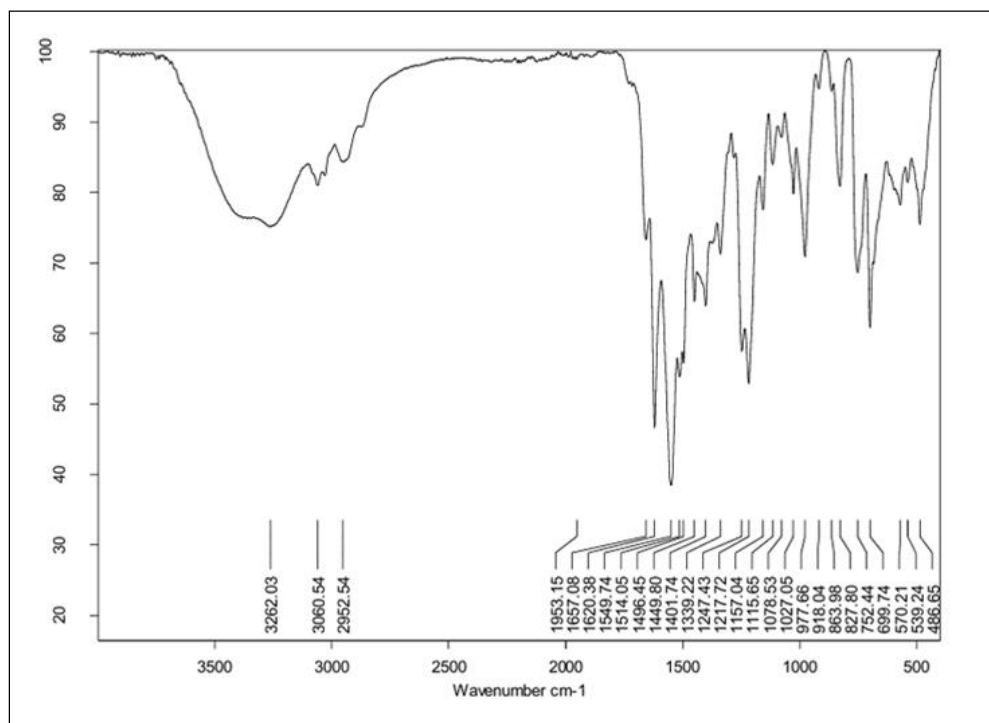
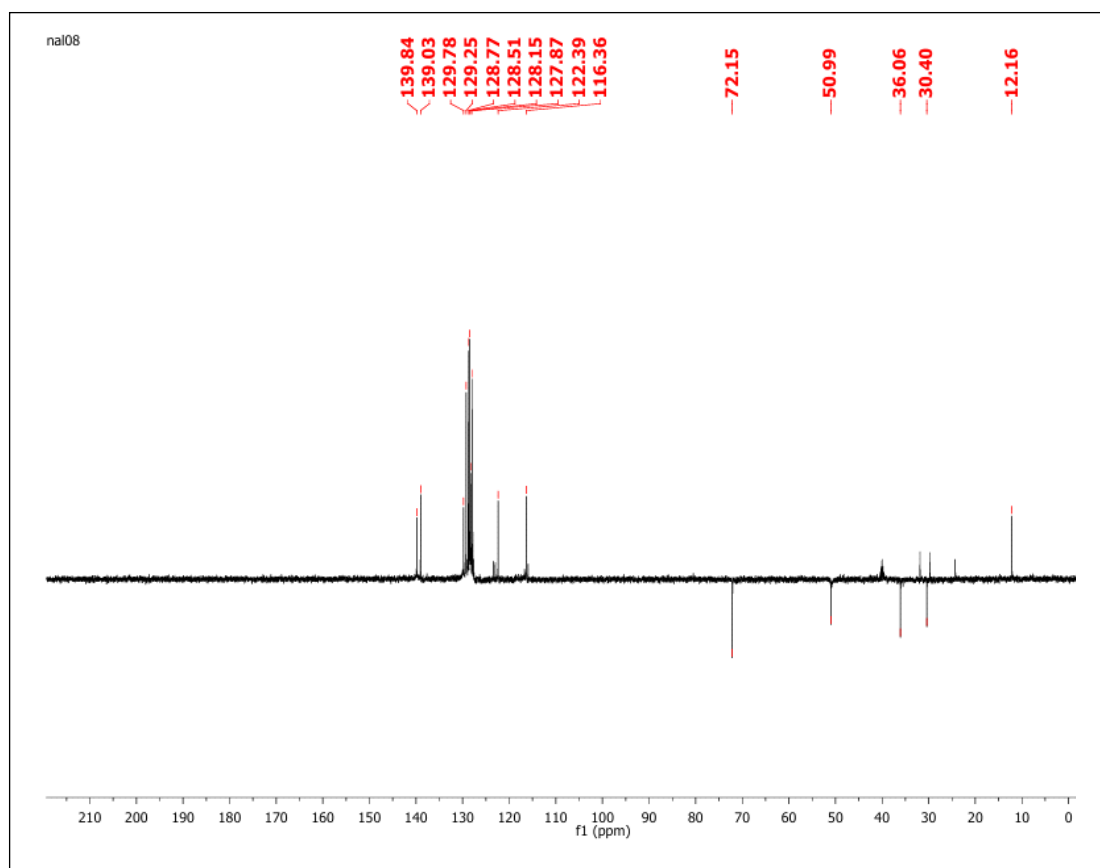


Figure S14. DEPT-135 and IR spectra of *N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)-propyl)cinnamamide (**6e**).

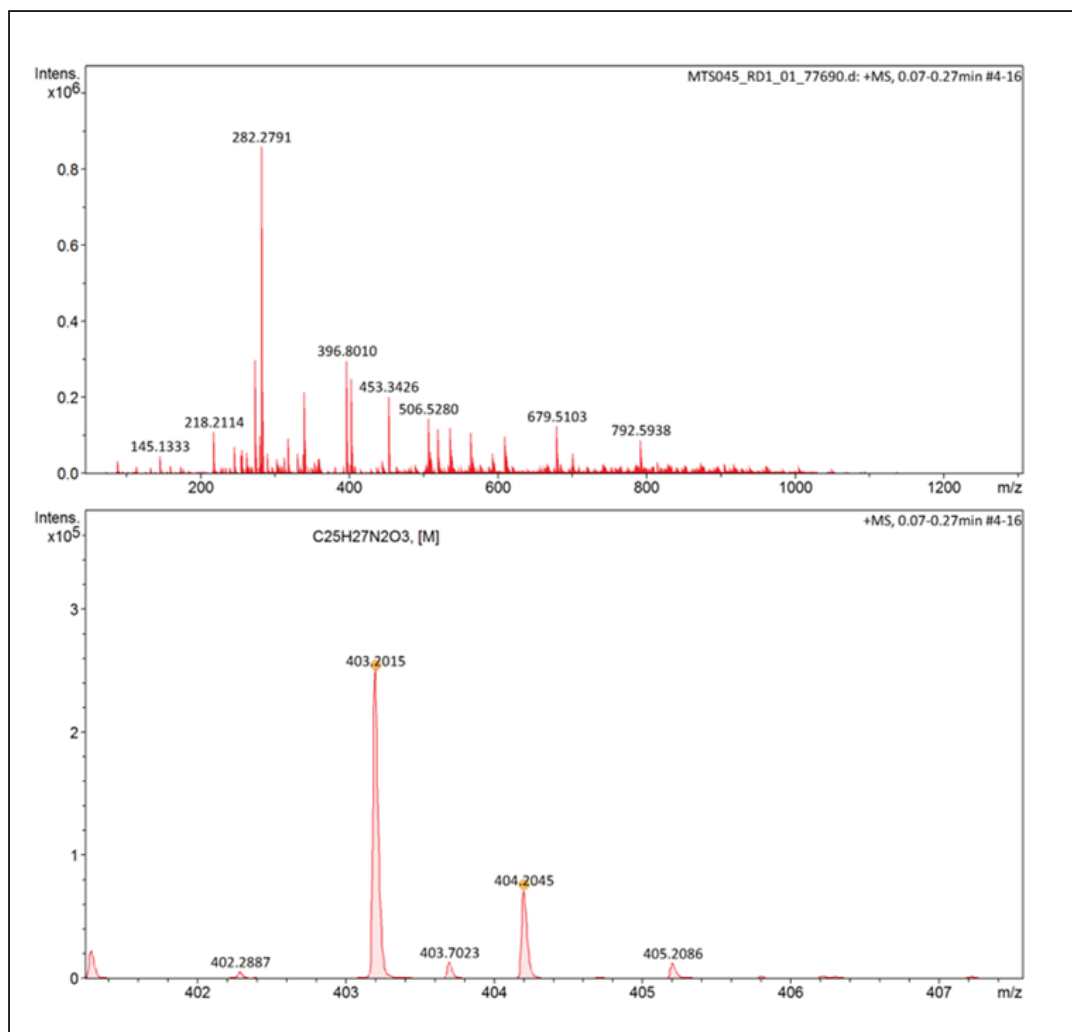


Figure S15. HRMS spectra of *N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)cinnamamide (**6e**).

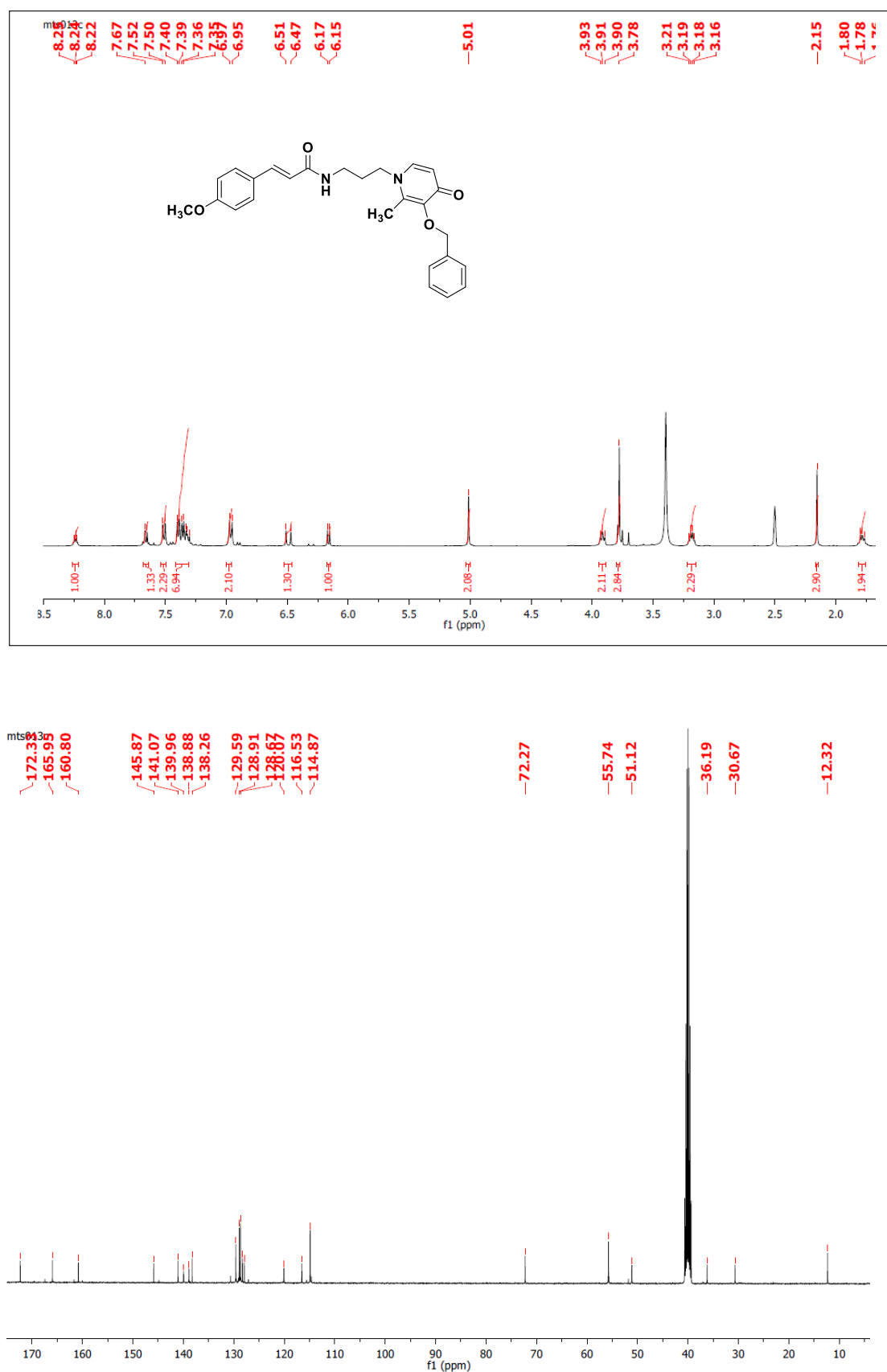


Figure S16. ¹H and ¹³C spectra of *(E)*-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)-3-(4-methoxyphenyl)acrylamide (**6f**).

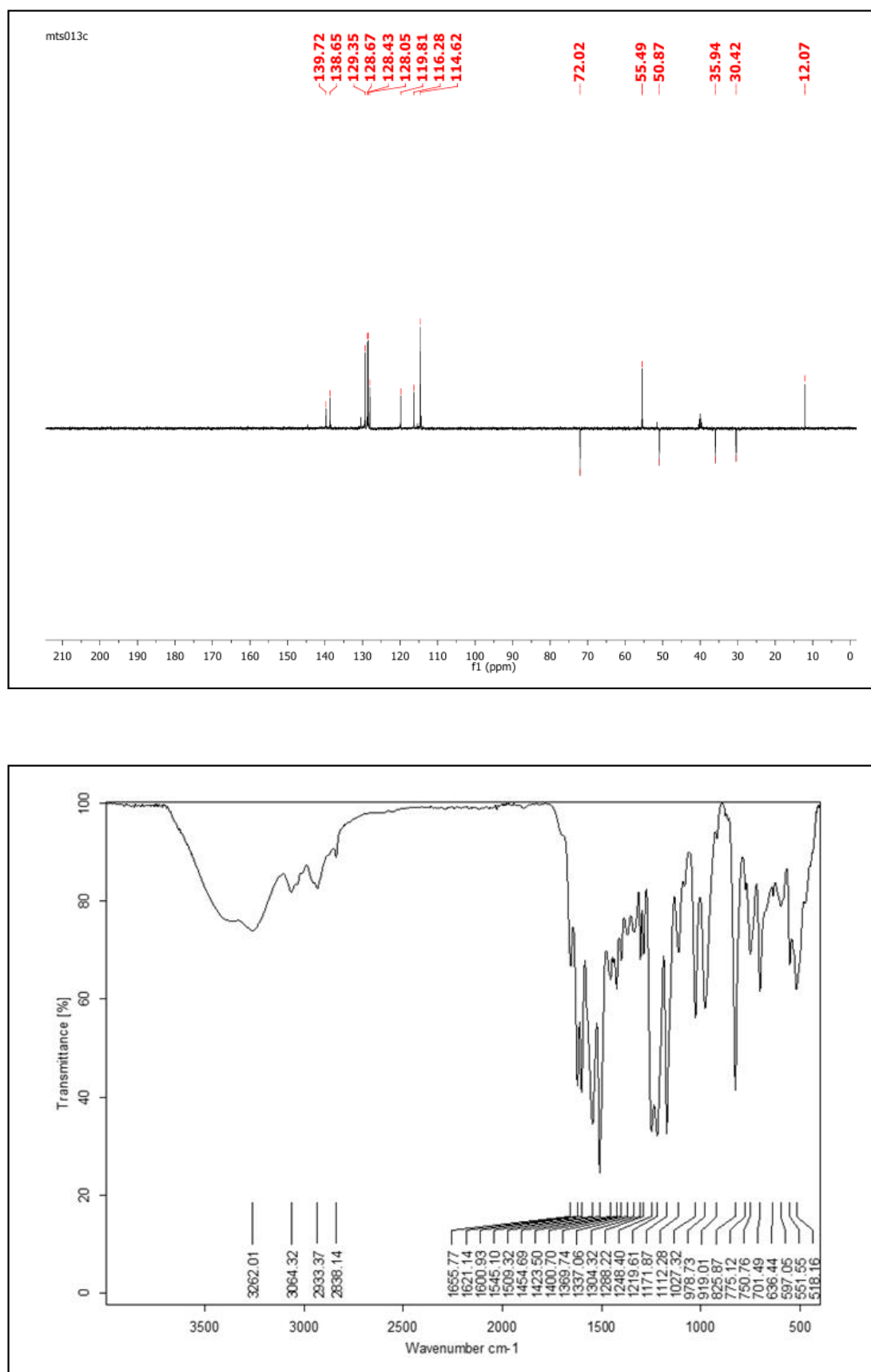


Figure S17. DEPT-135 and IR spectra of (*E*)-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)-3-(4-methoxyphenyl)acrylamide (**6f**).

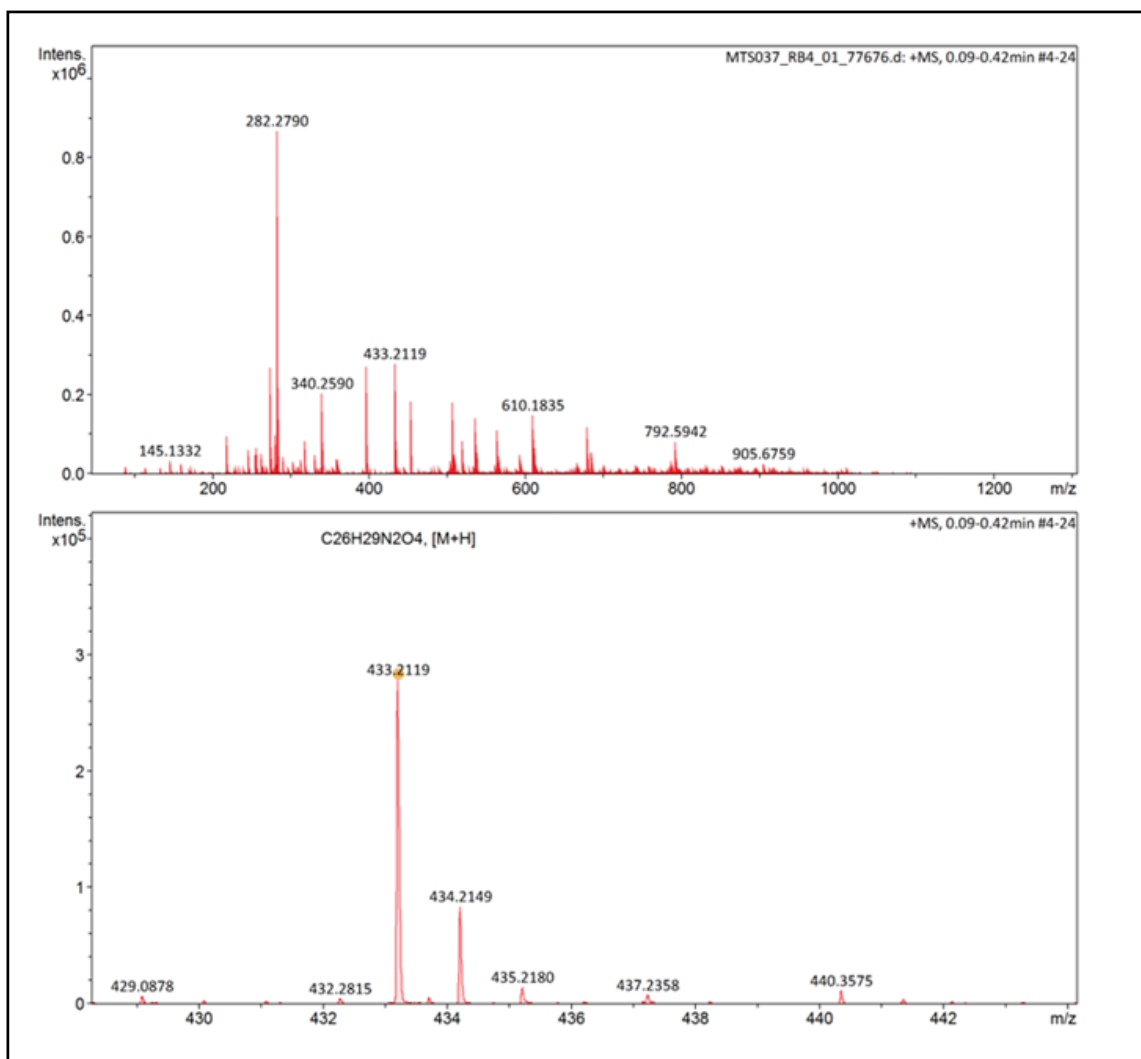


Figure S18. HRMS spectra of (*E*)-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)-3-(4-methoxyphenyl)acrylamide (**6f**).

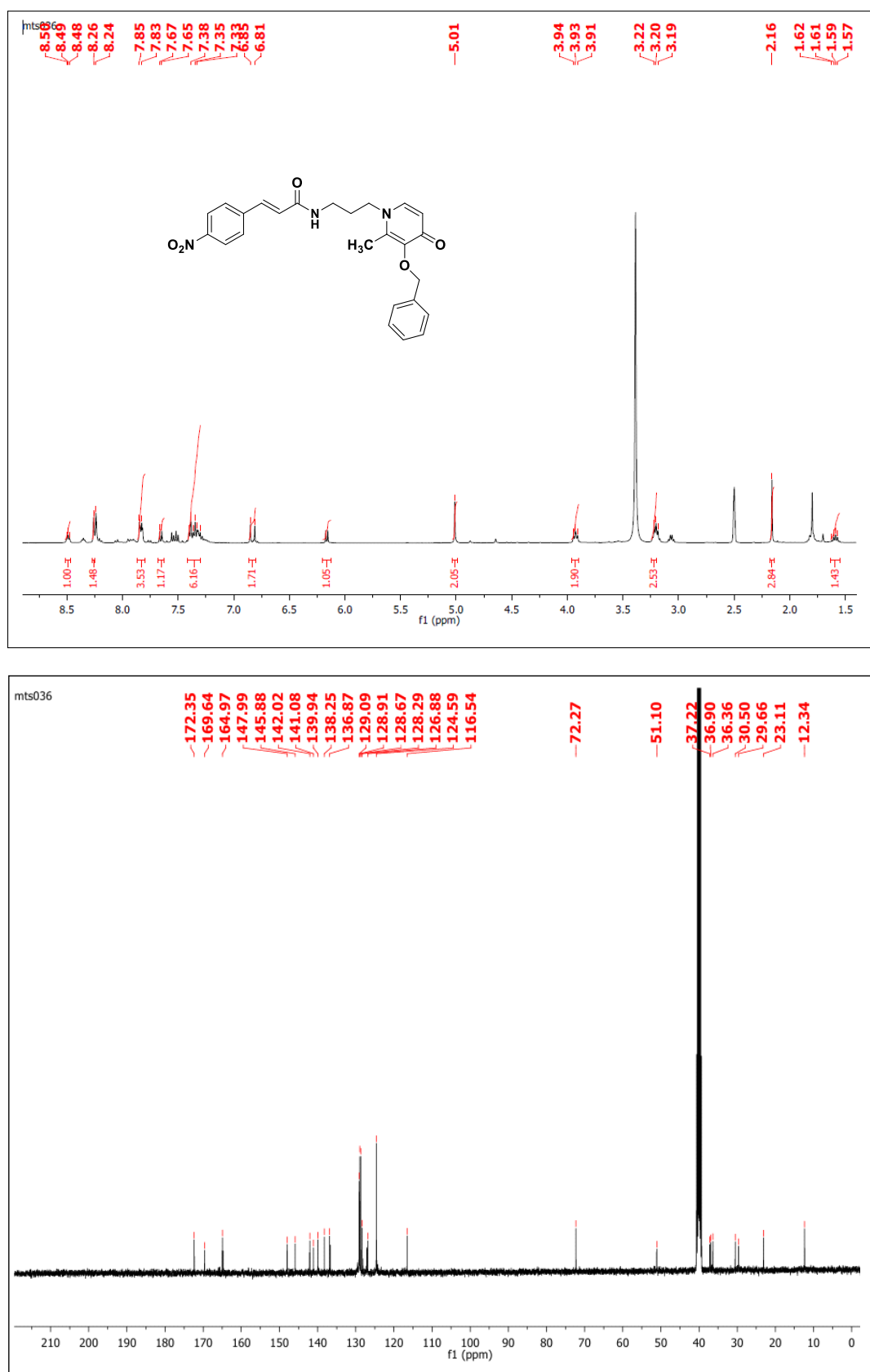


Figure S19. ¹H and ¹³C spectra of *(E)*-N-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)propyl)-3-(4-nitrophenyl)acrylamide (**6g**).

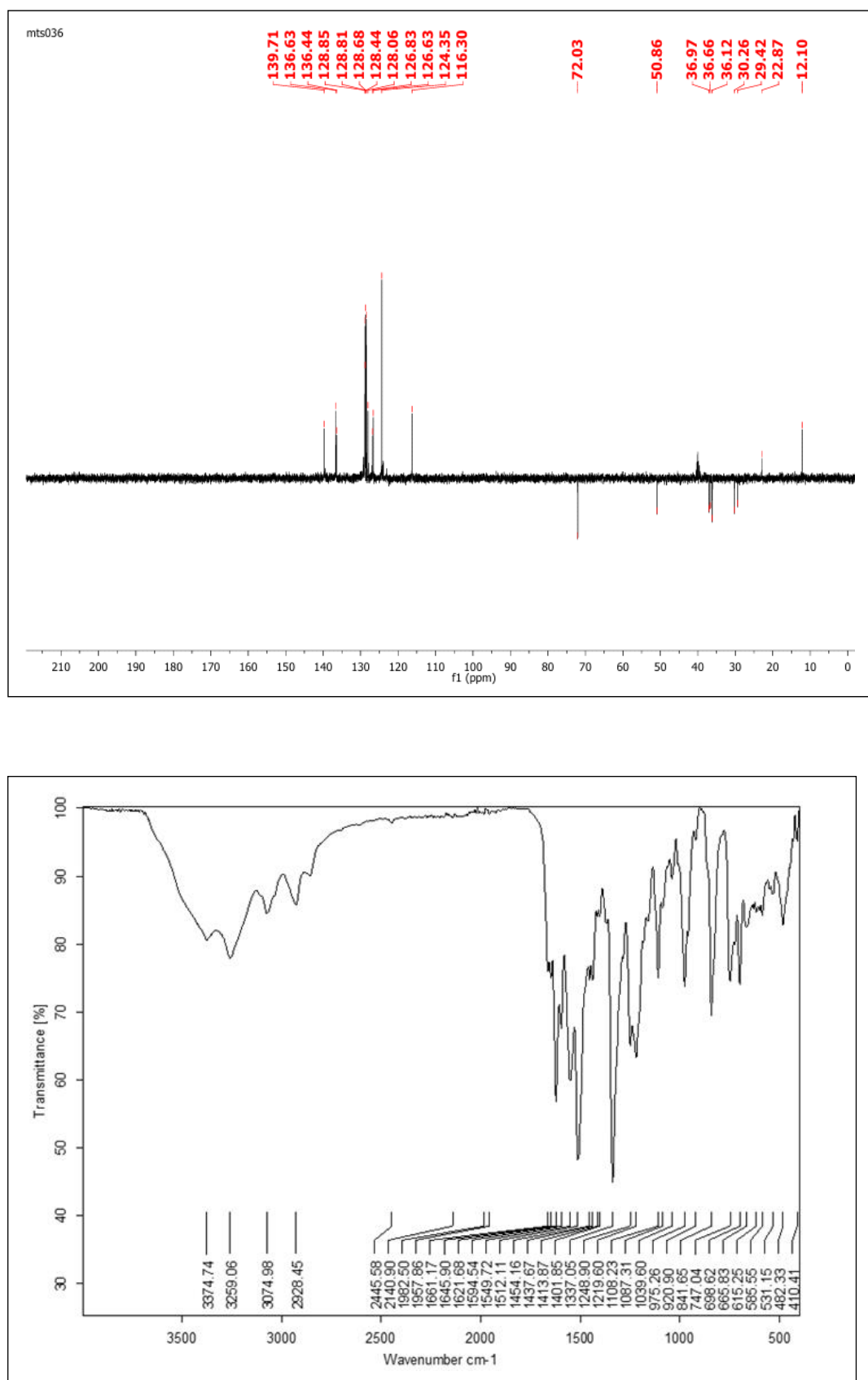


Figure S20. DEPT-135 and IR spectra of (*E*)-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)propyl)-3-(4-nitrophenyl)acrylamide (**6g**).

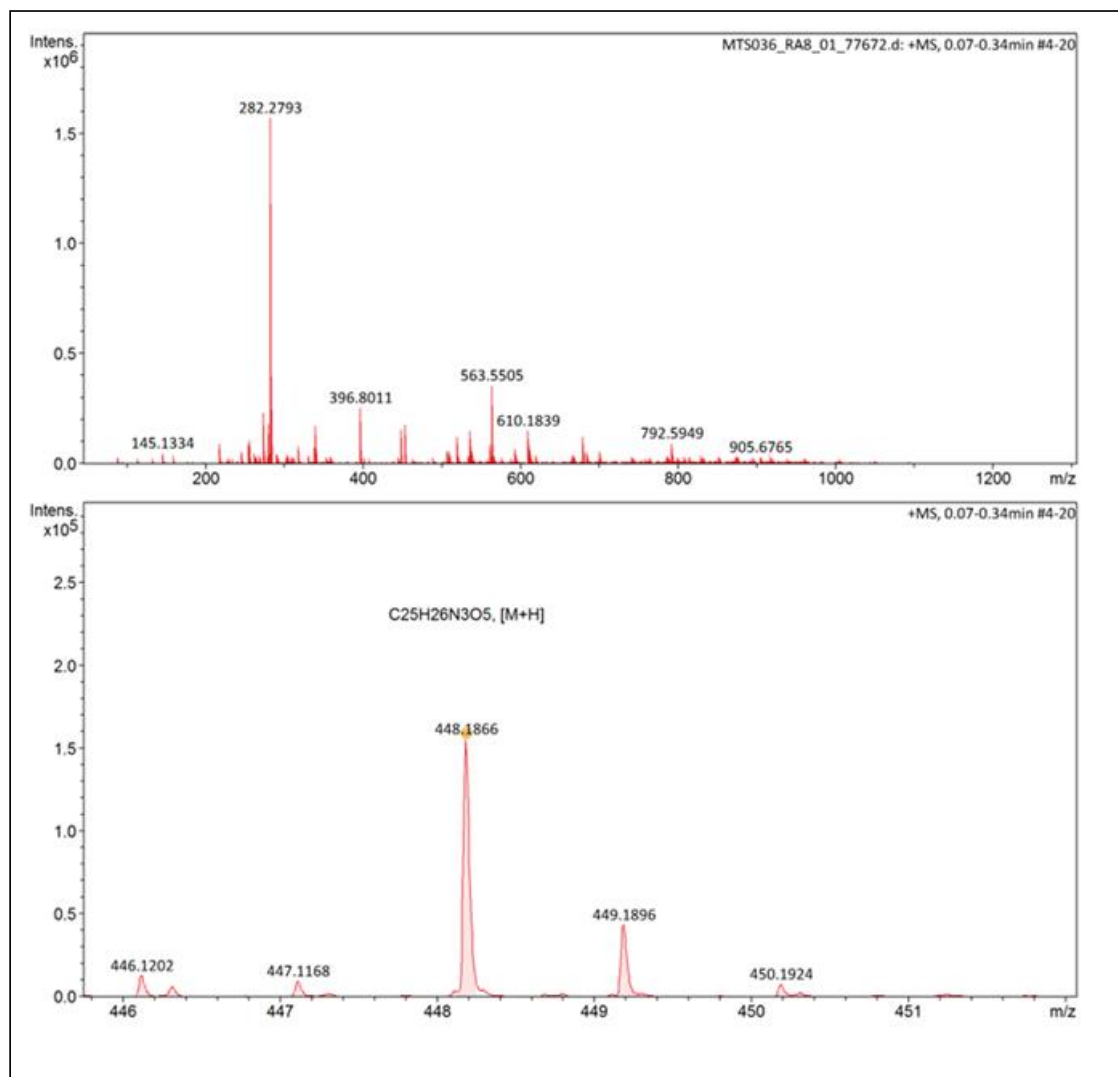


Figure S21. HRMS spectra of *(E)*-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)propyl)-3-(4-nitrophenyl)acrylamide (**6g**).

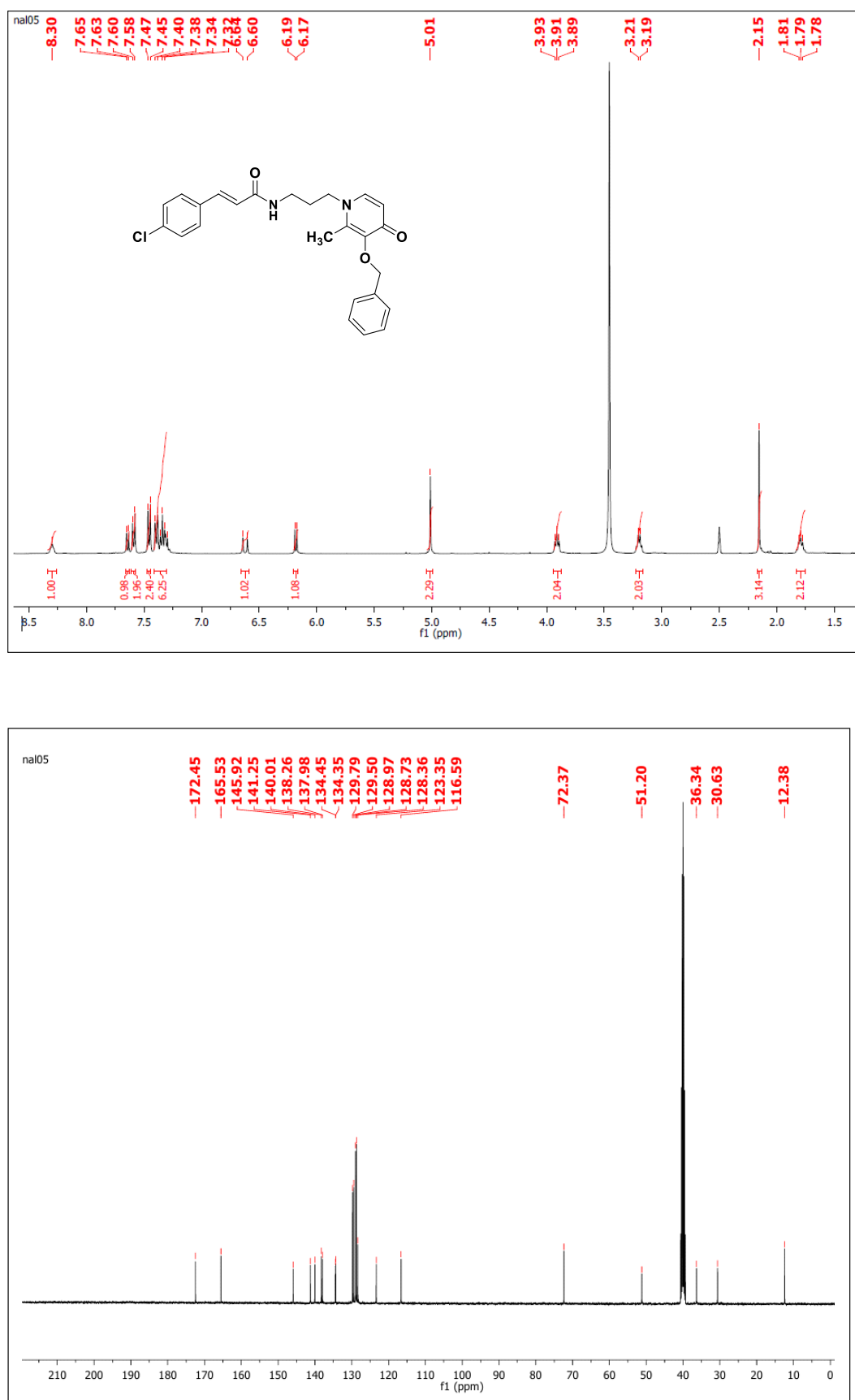


Figure S22. ¹H and ¹³C spectra of (*E*)-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)-3-(4-chlorophenyl)acrylamide (**6h**).

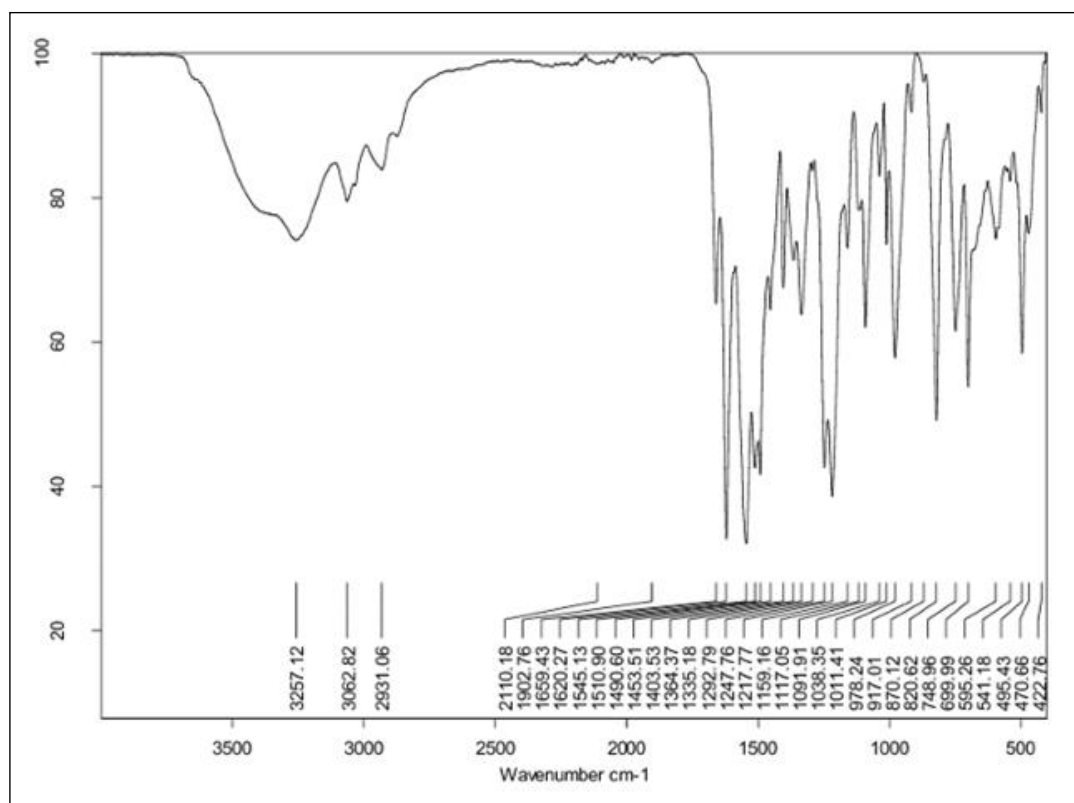
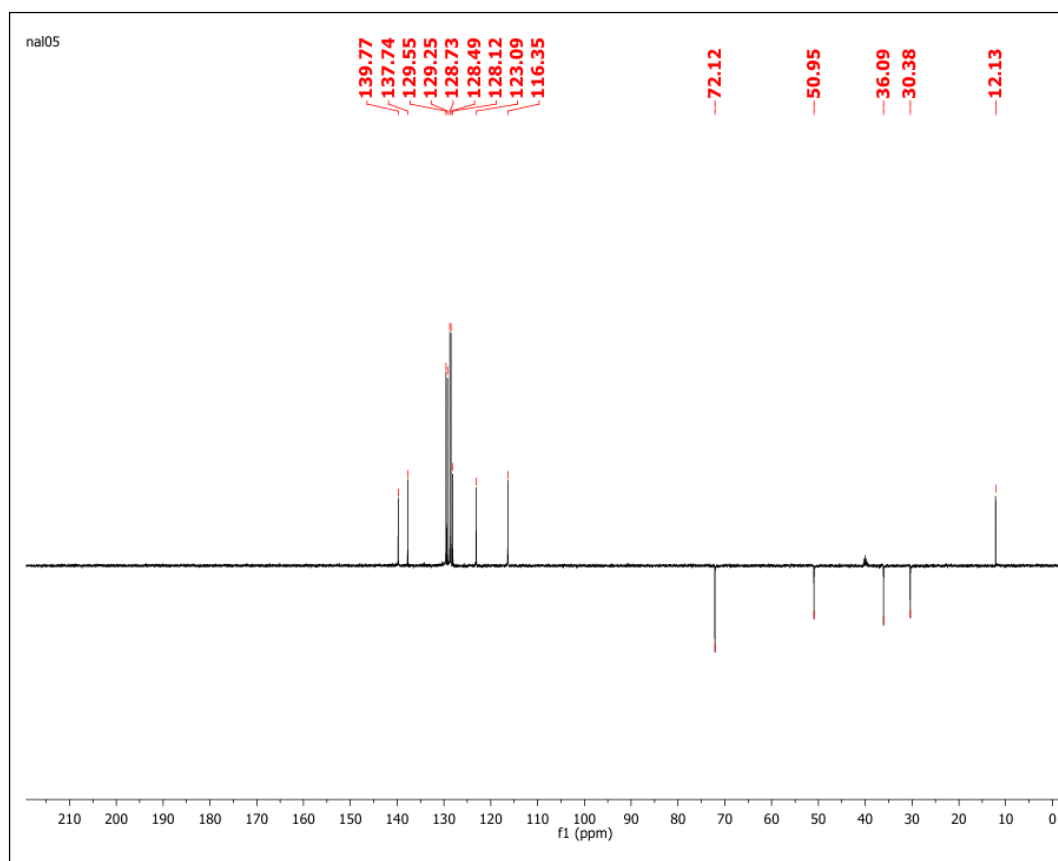


Figure S23. DEPT-135 and IR spectra of (*E*)-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)-3-(4-chlorophenyl)acrylamide (**6h**).

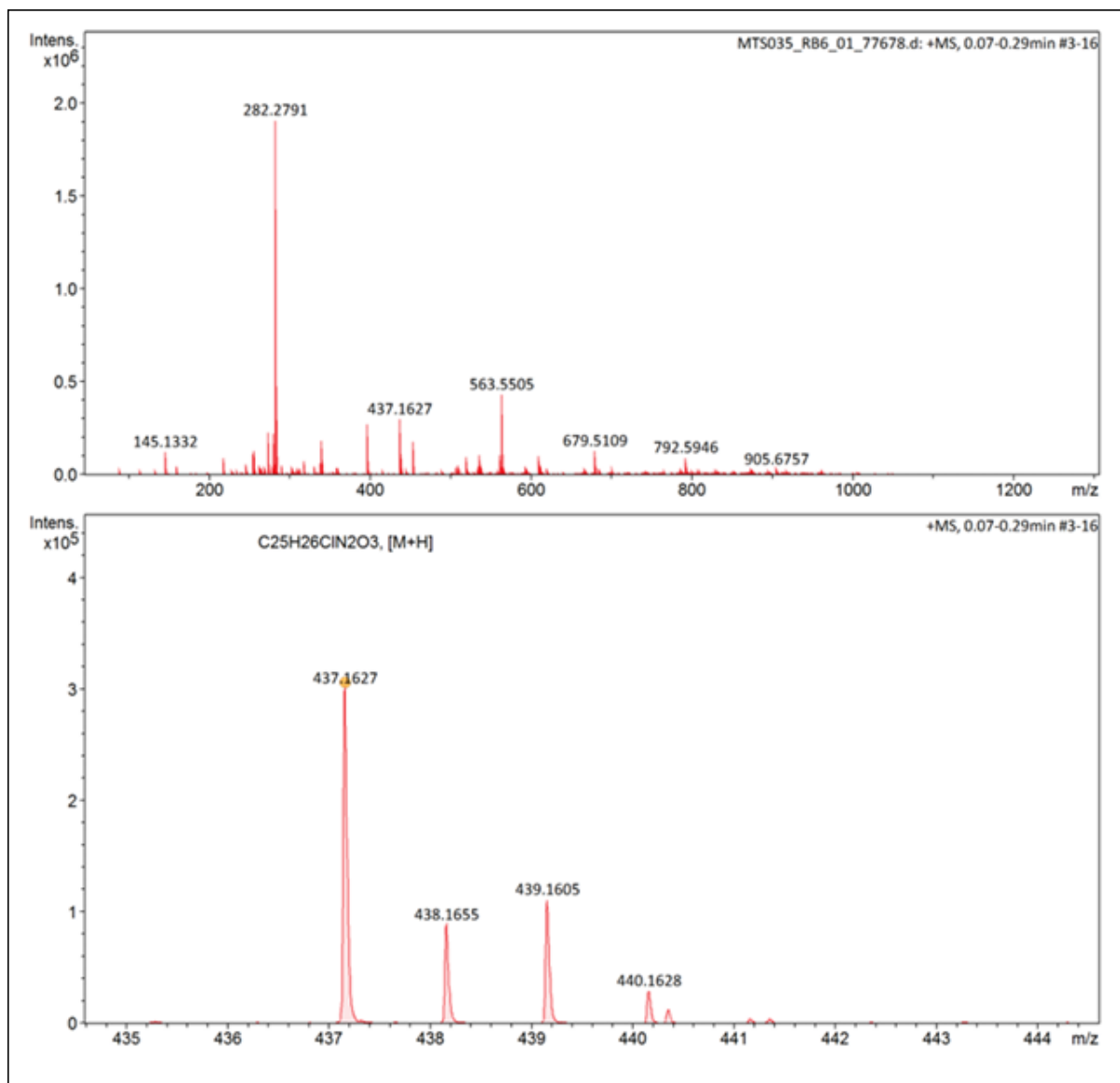


Figure S24. HRMS spectra of (*E*)-*N*-(3-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)propyl)-3-(4-chlorophenyl)acrylamide (**6h**).

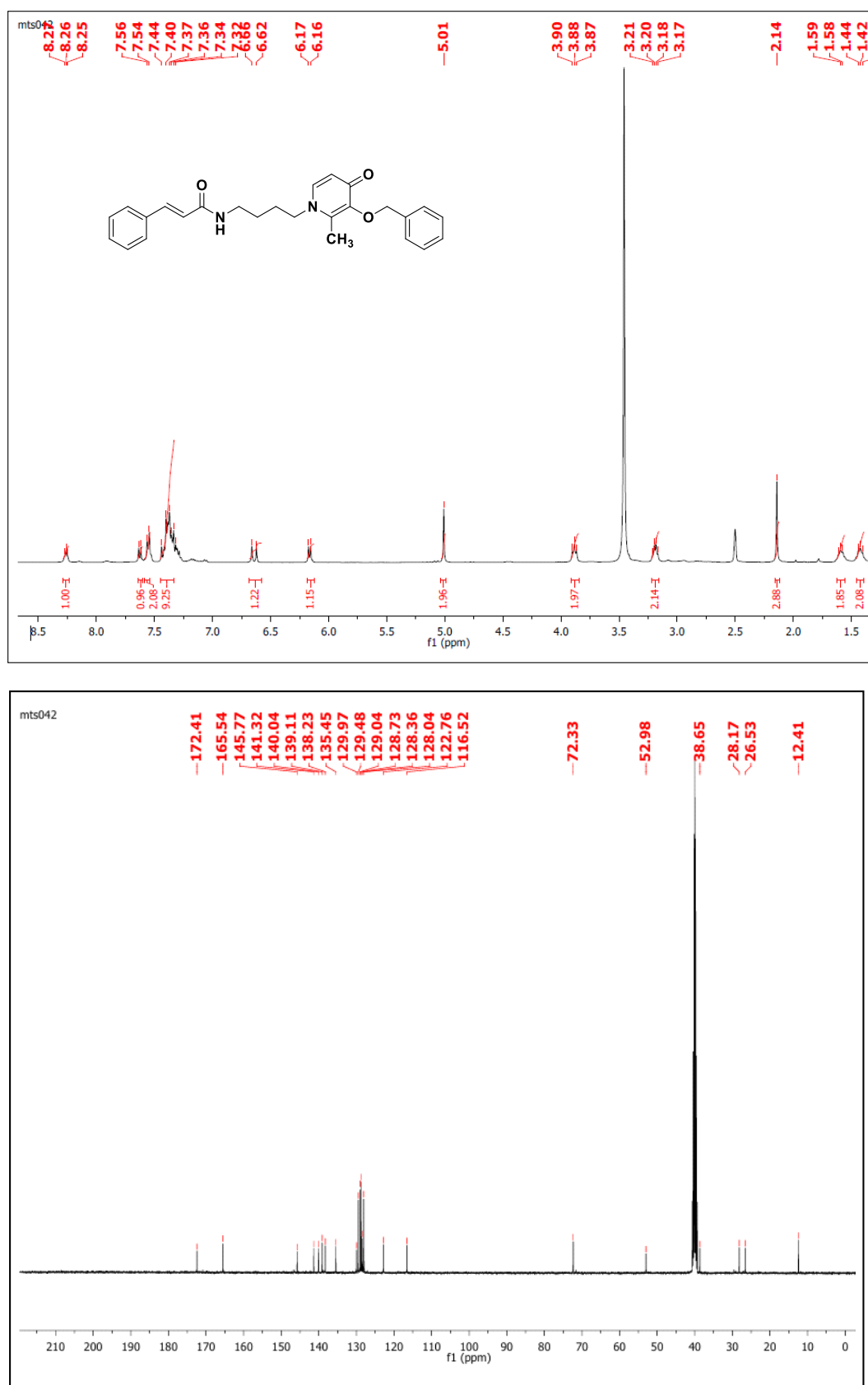


Figure S25. ¹H and ¹³C spectra of *N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)cinnamamide (**6i**).

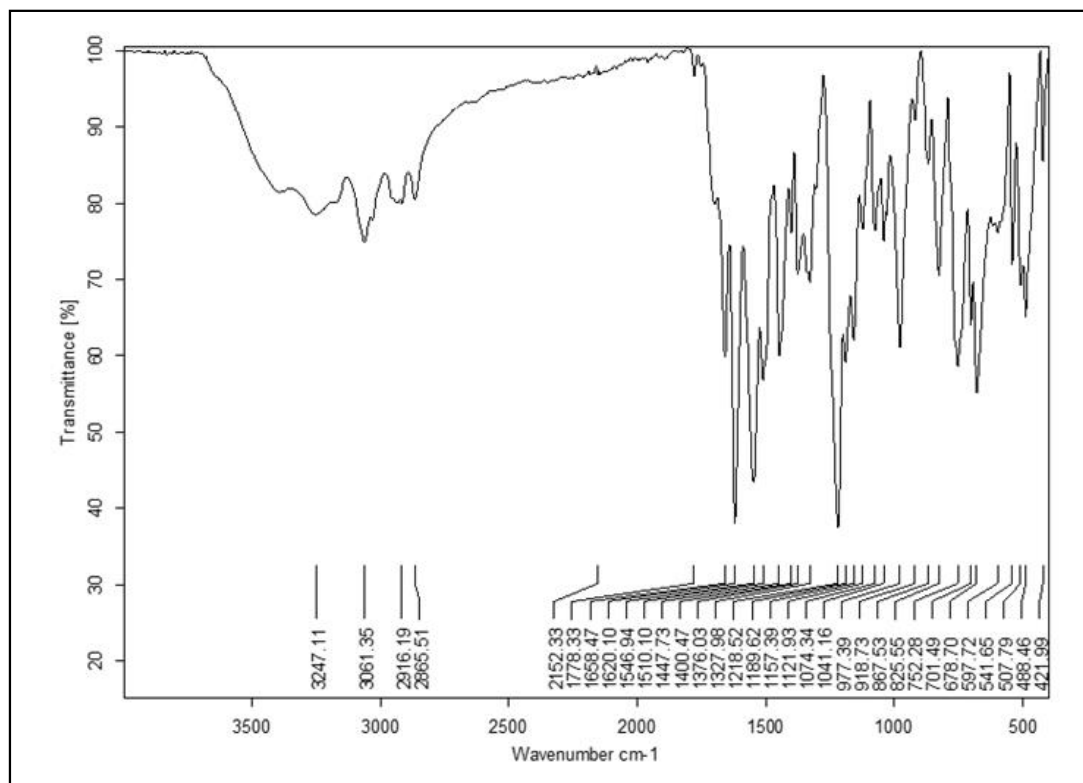
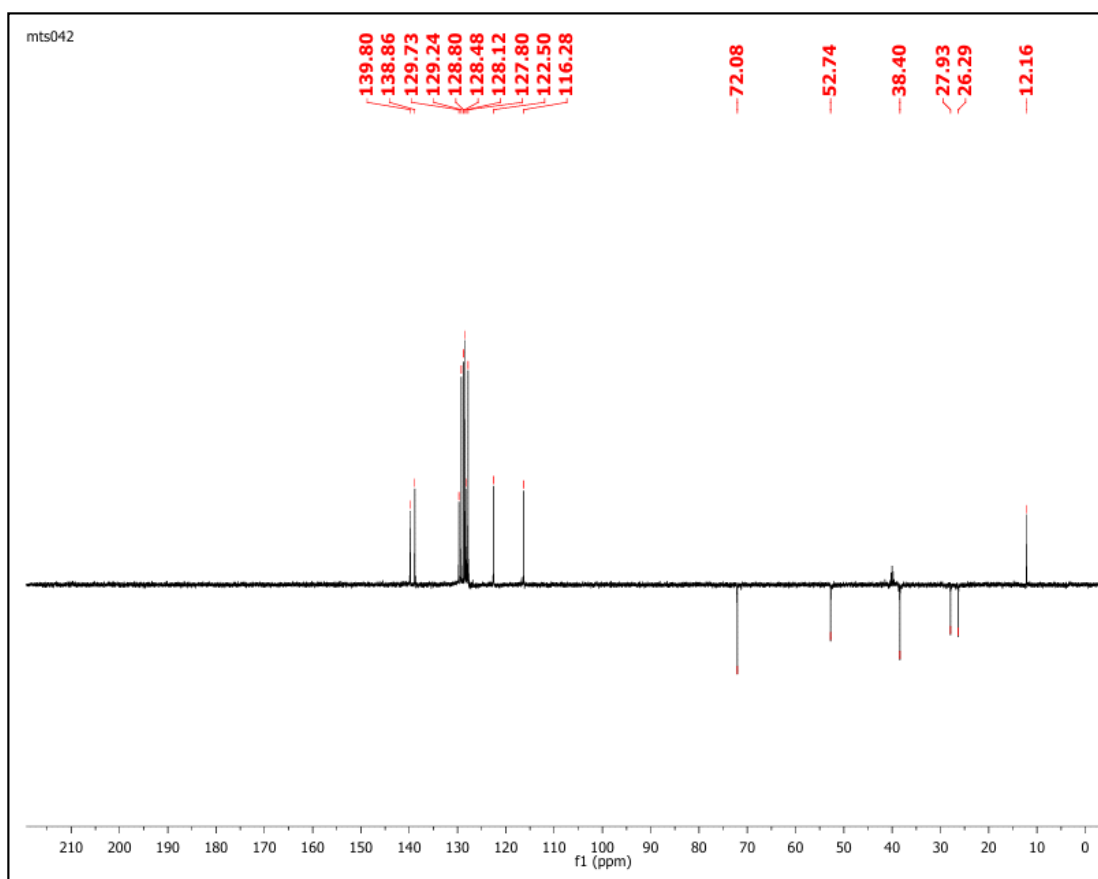


Figure S26. DEPT-135 and IR spectra of *N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)-butyl)cinnamamide (**6i**).

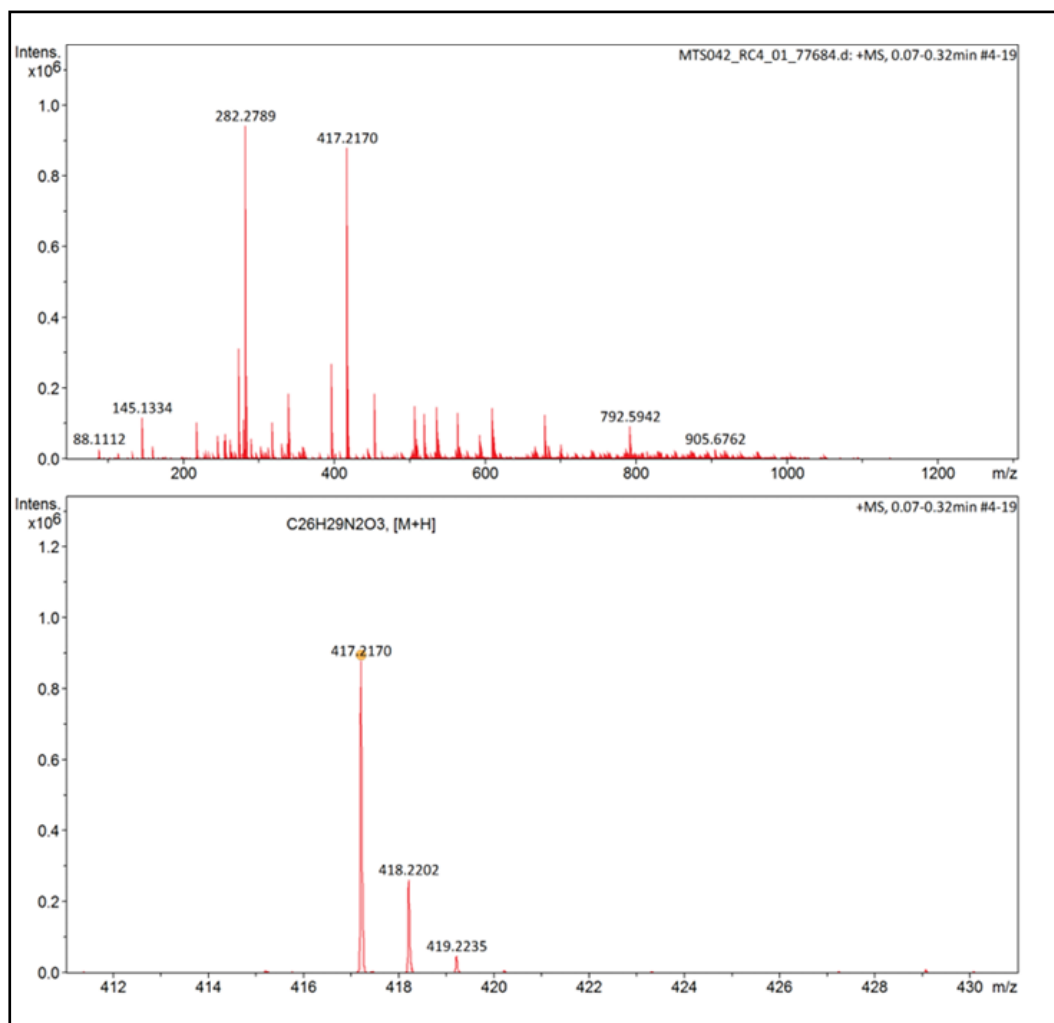


Figure S27. HRMS spectra of *N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)cinnamamide (**6i**).

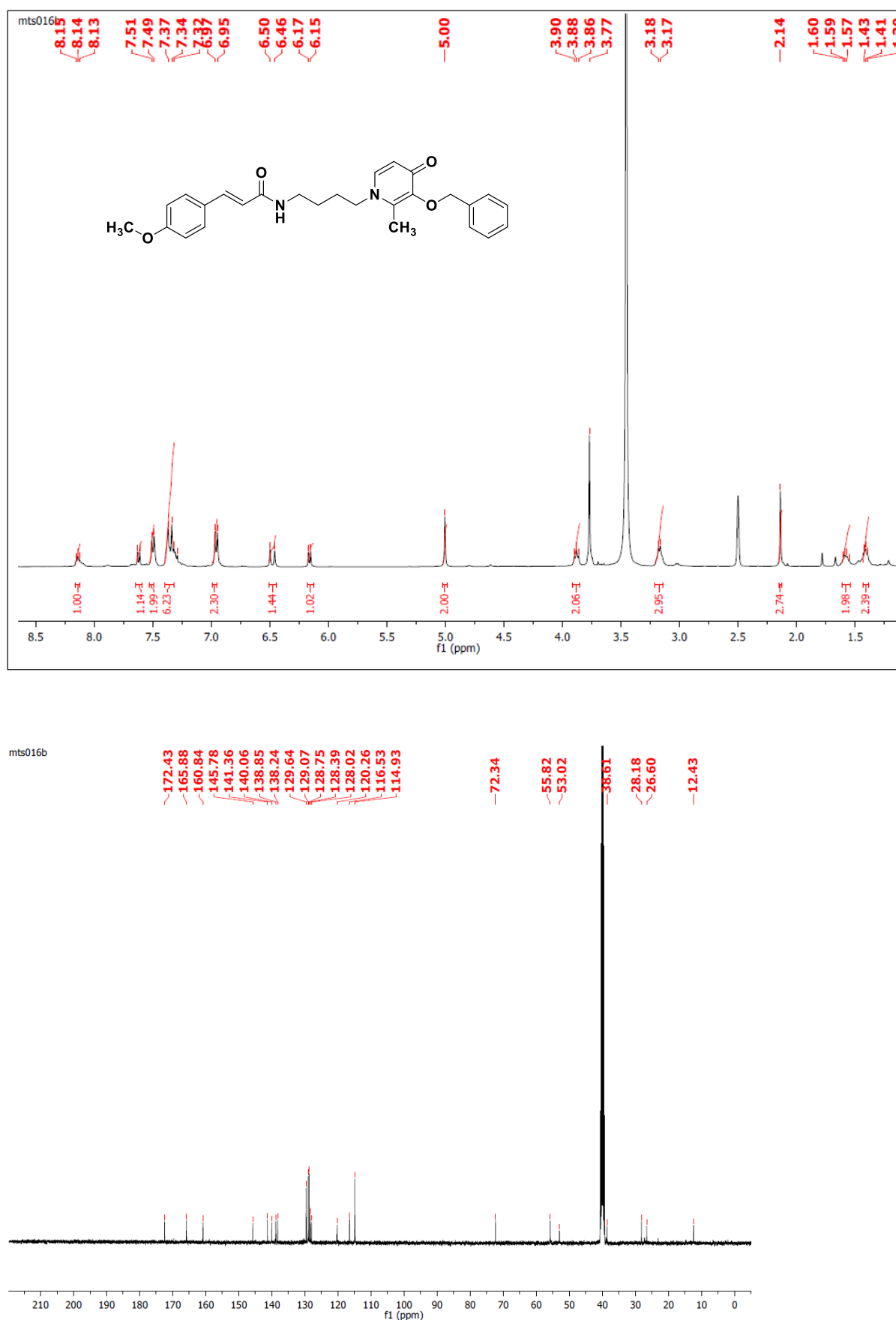


Figure S28. ¹H and ¹³C spectra of *(E)-N-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)butyl)-3-(4-methoxyphenyl)acrylamide (6j)*.

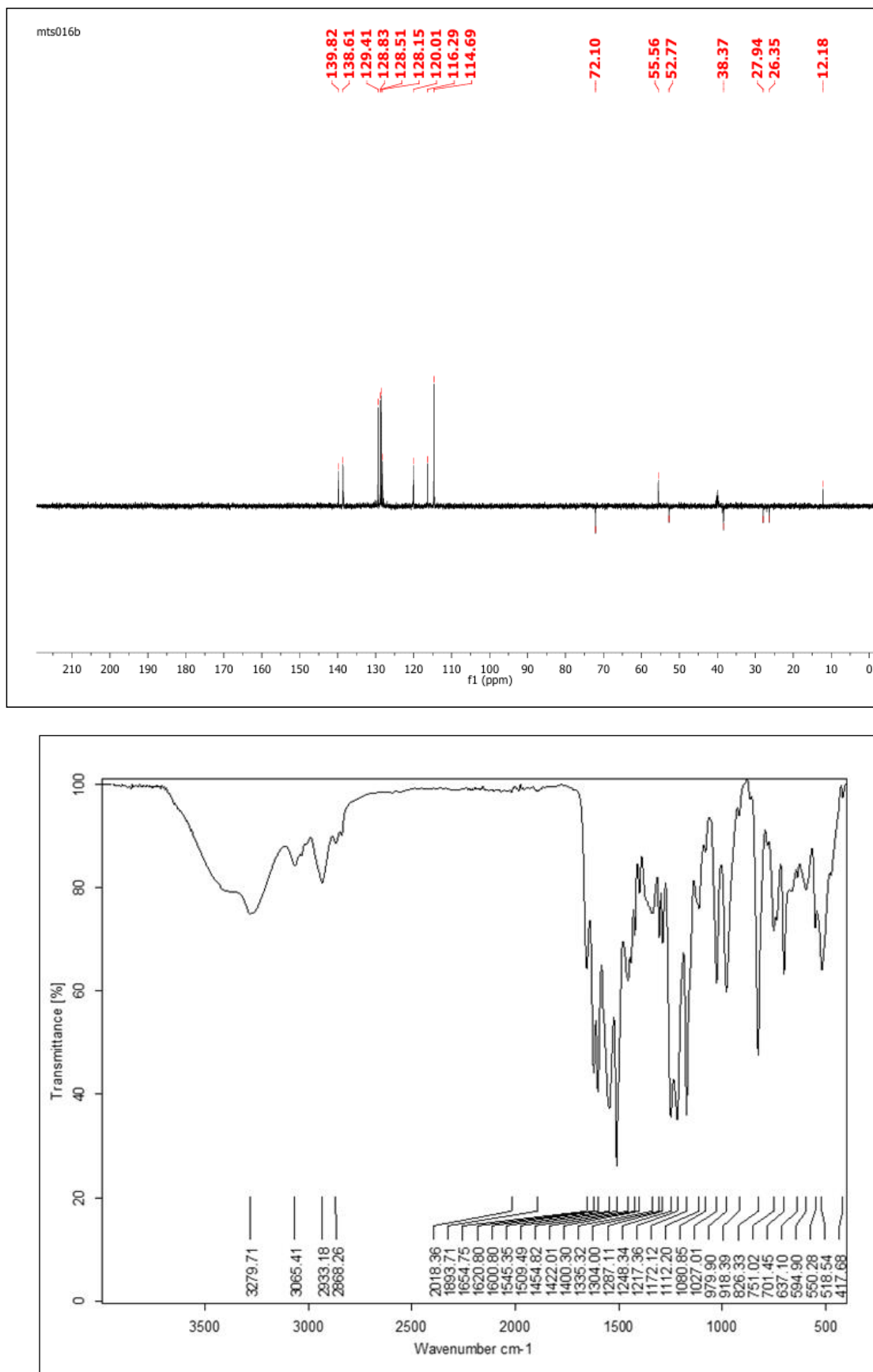


Figure S29. DEPT-135 and IR spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-methoxyphenyl)acrylamide (**6j**).

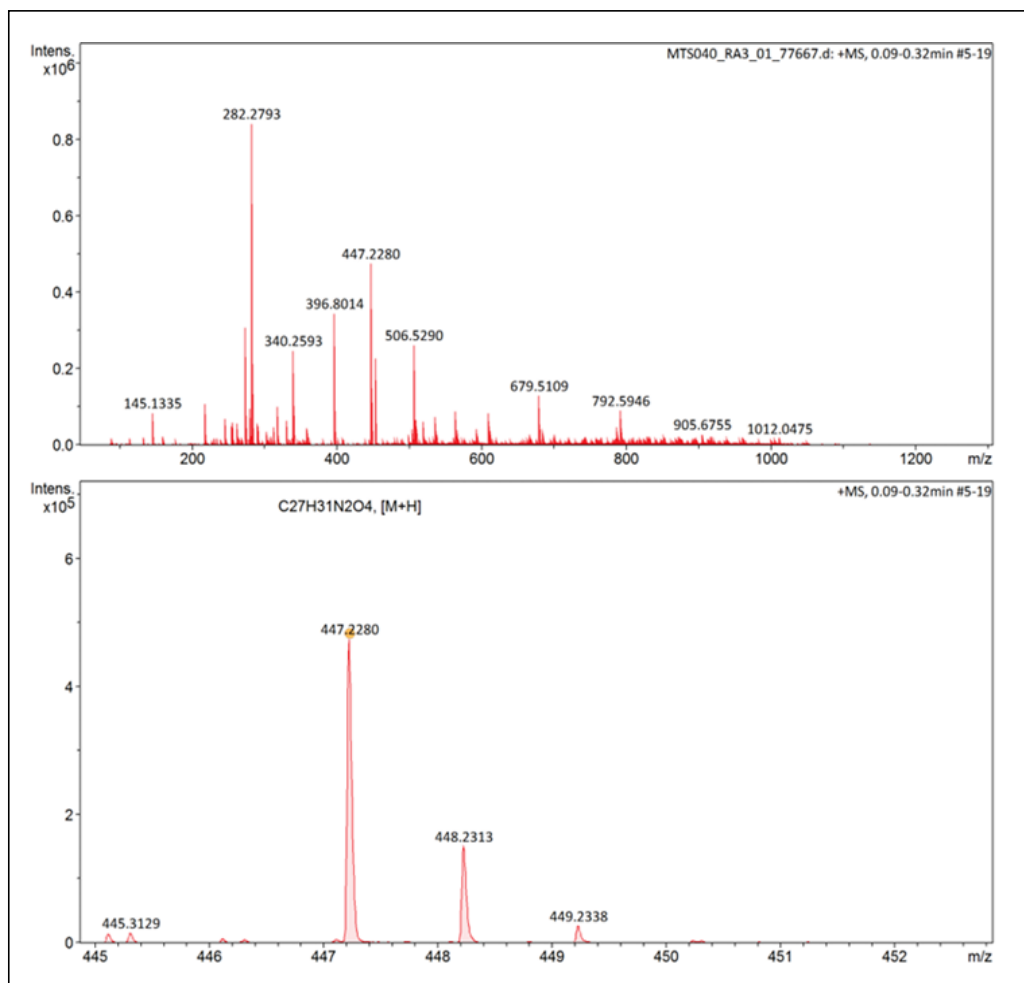


Figure S30. HRMS spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-methoxyphenyl)acrylamide (**6j**).

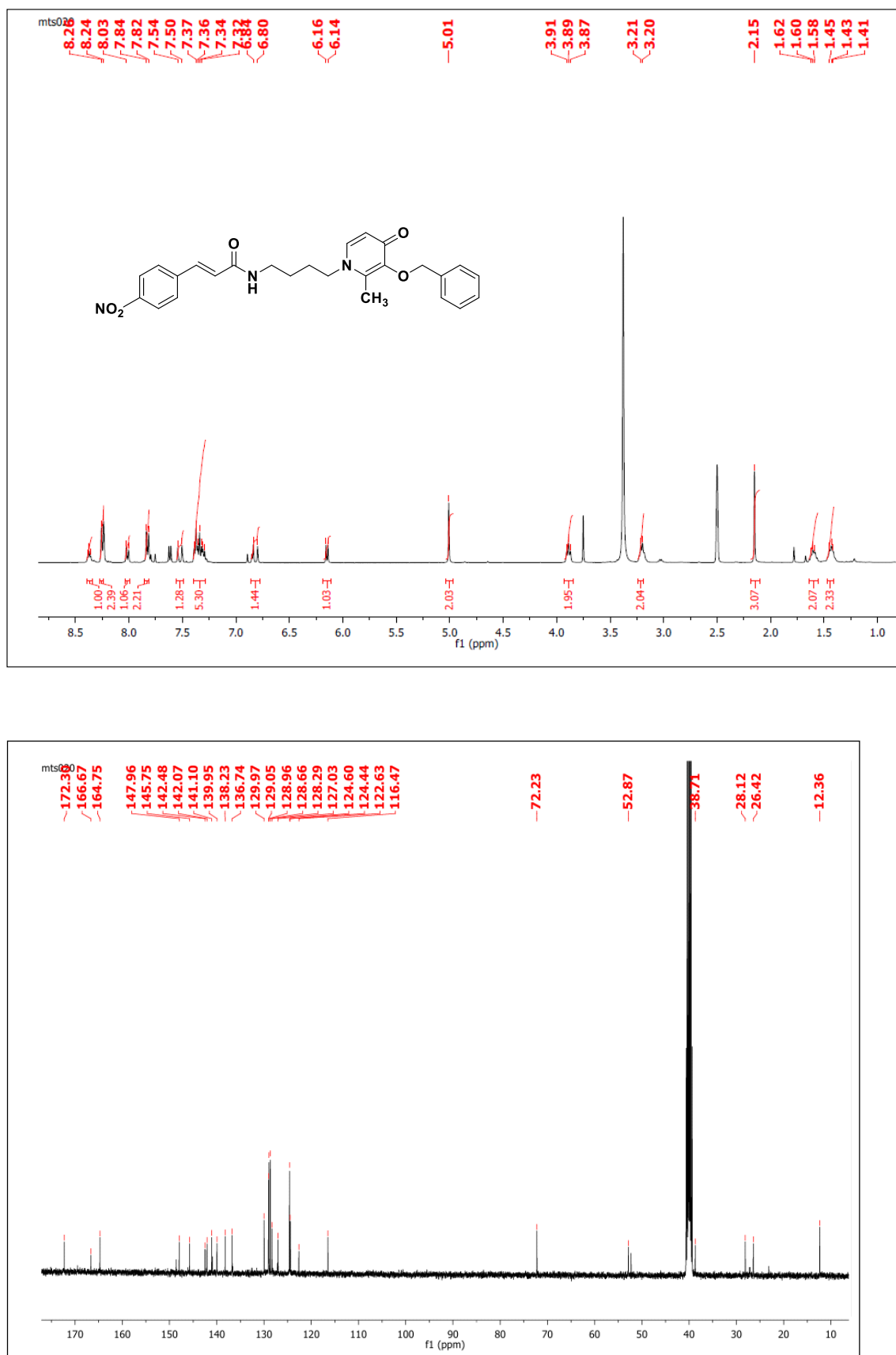


Figure S31. ¹H and ¹³C spectra of *(E)*-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-nitrophenyl)acrylamide (**6k**).

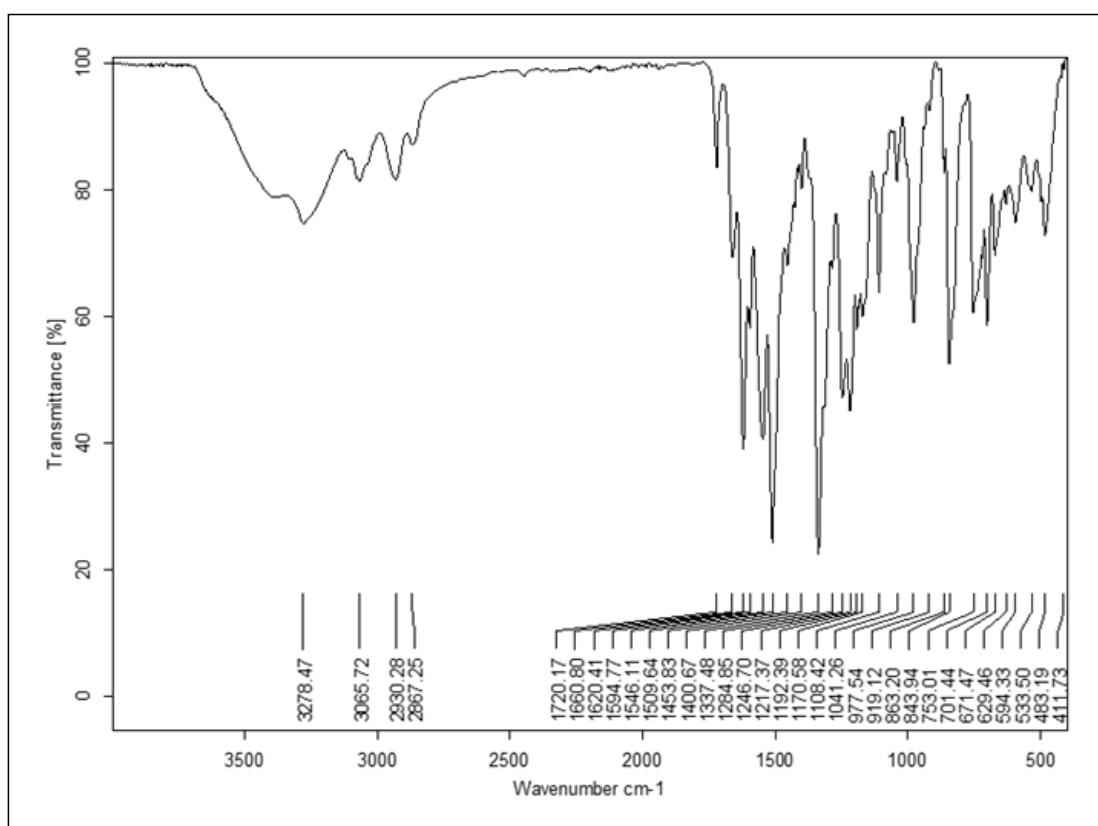
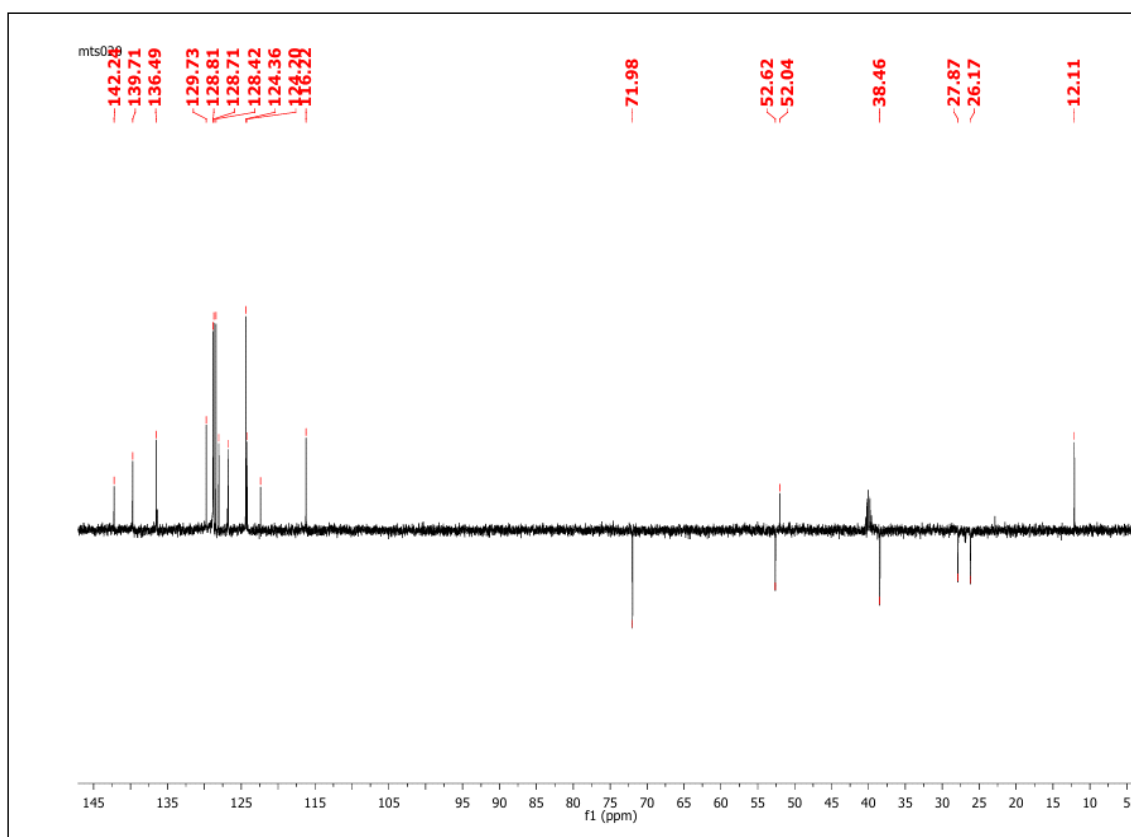


Figure S32. DEPT-135 and IR spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-nitrophenyl)acrylamide (**6k**).

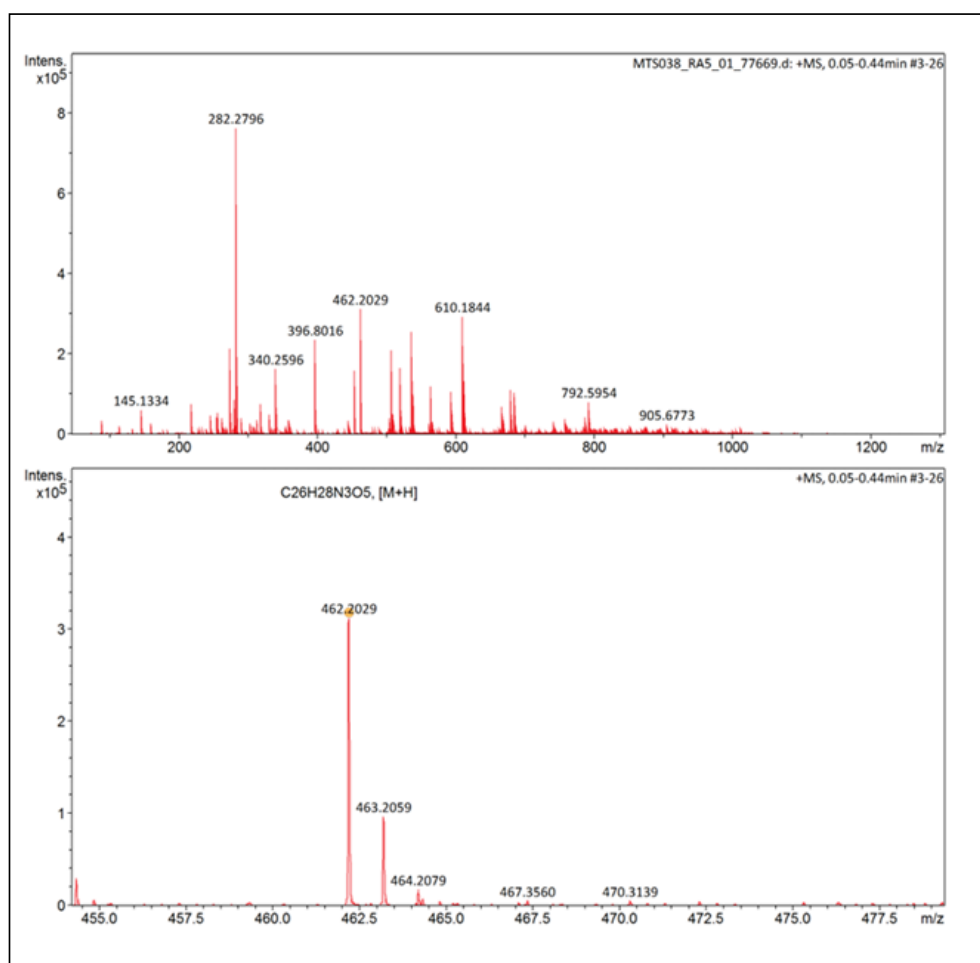


Figure S33. HRMS spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-nitrophenyl)acrylamide (**6k**).

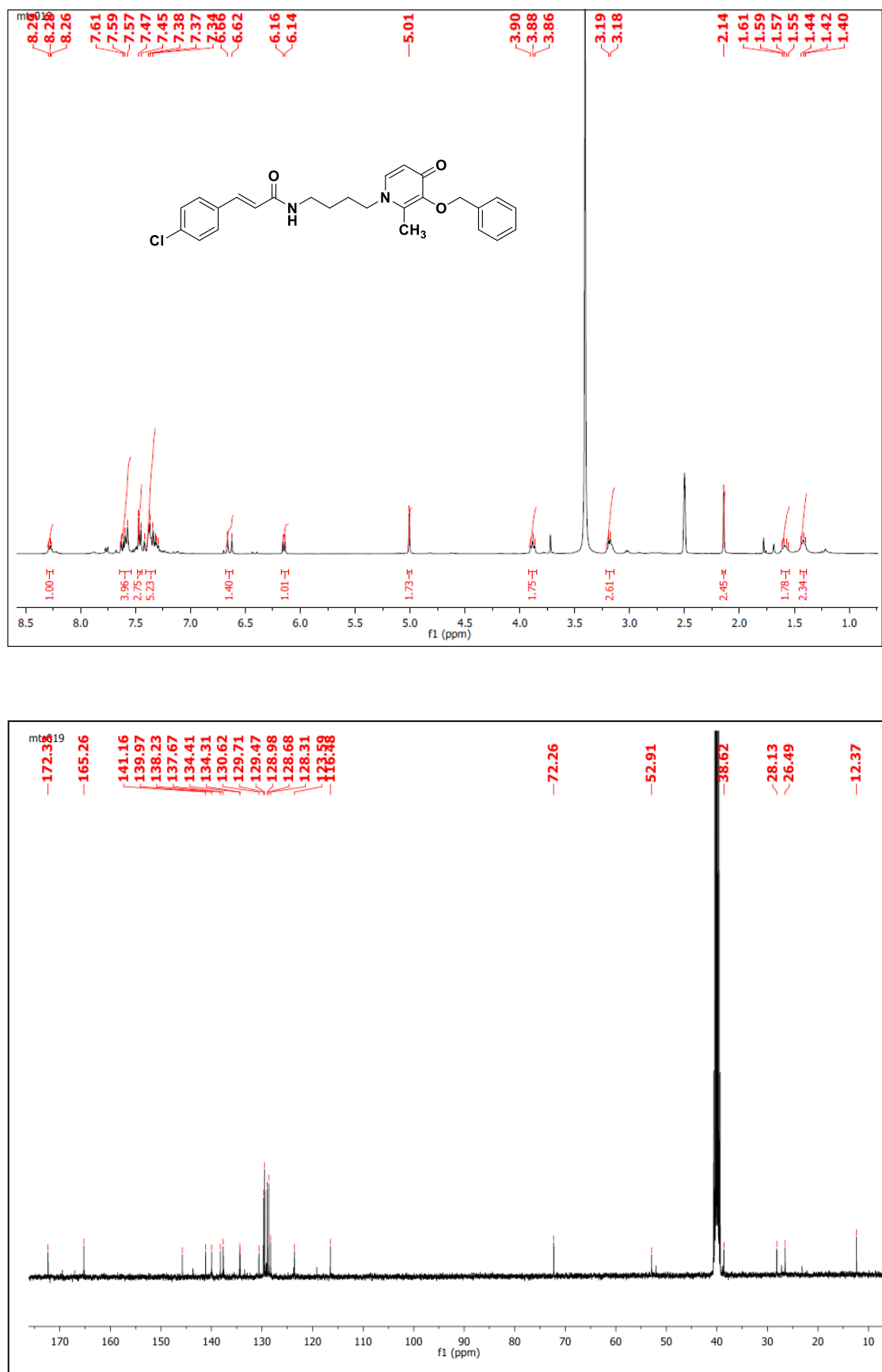


Figure S34. ¹H and ¹³C spectra of (E)-N-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)butyl)-3-(4-chlorophenyl)acrylamide (**6l**).

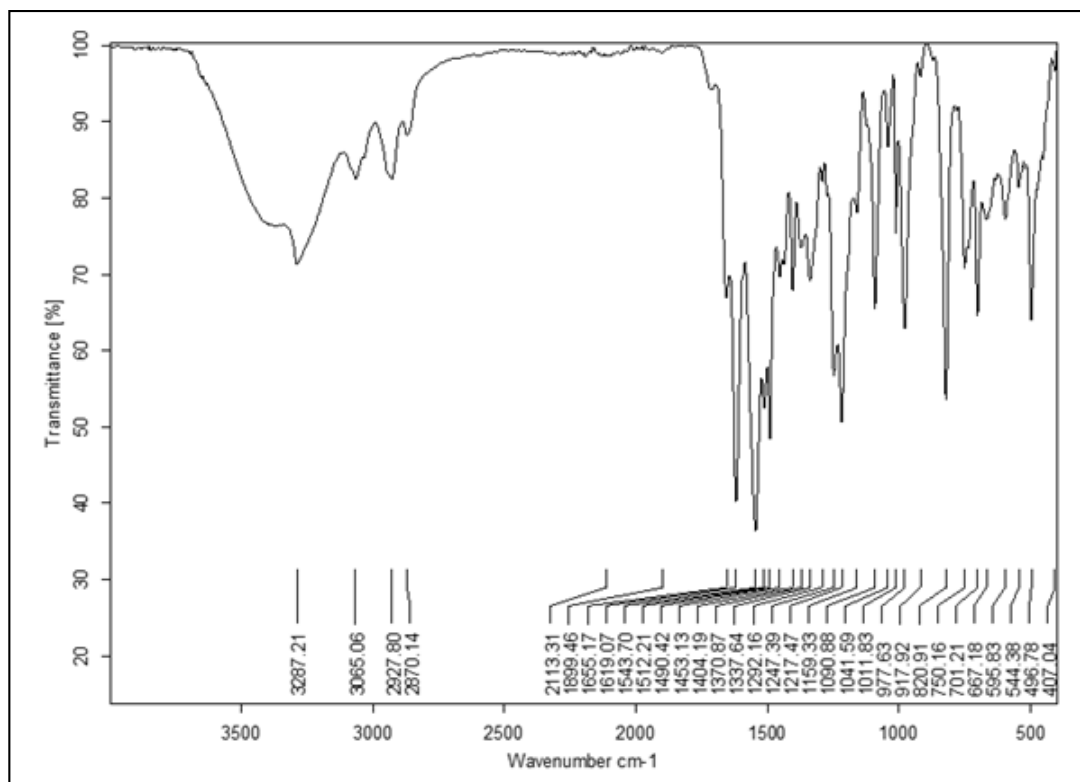
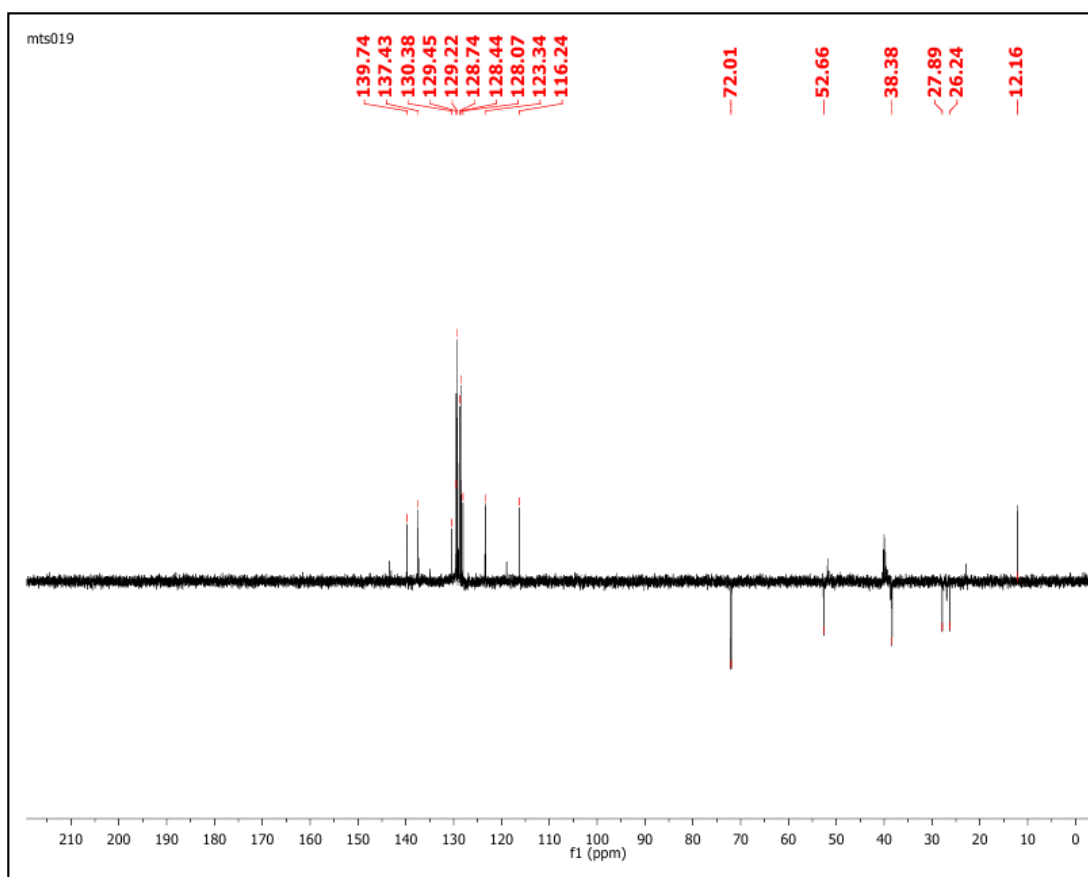


Figure S35. DEPT-135 and IR spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-chlorophenyl)acrylamide (**6l**).

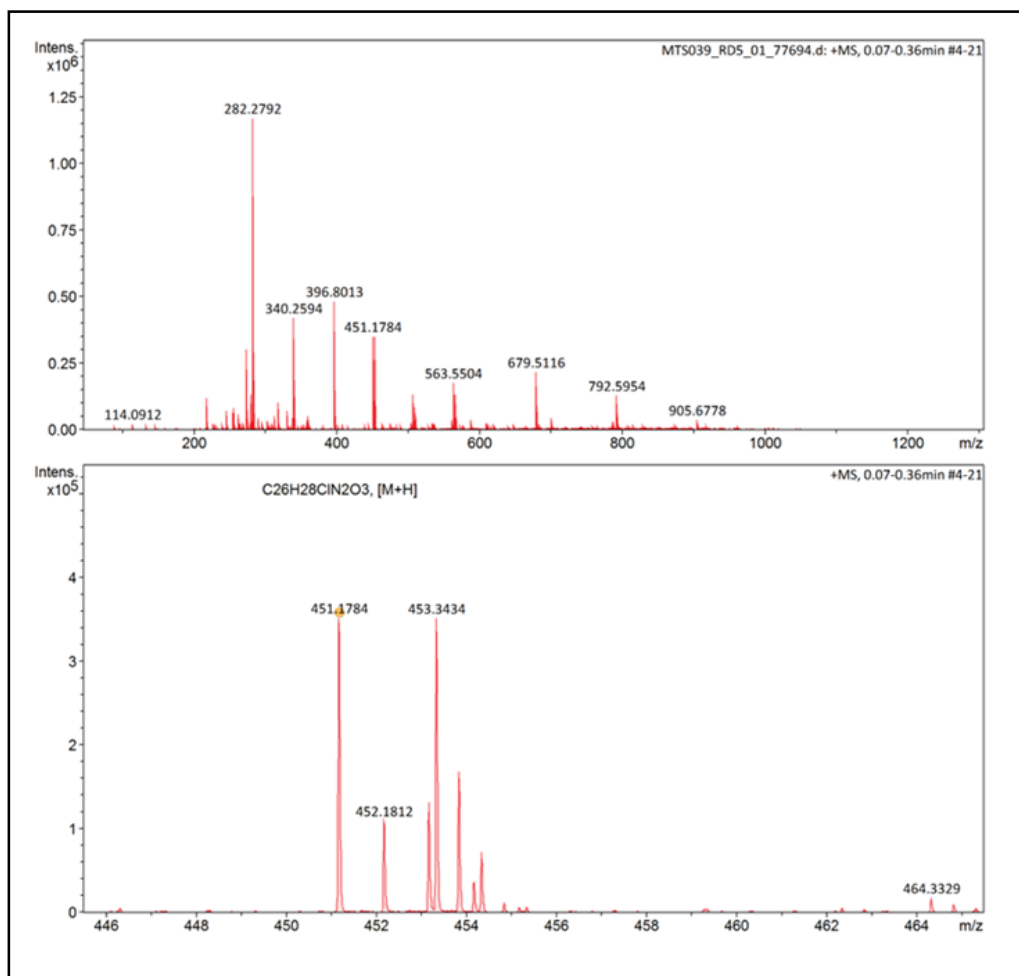


Figure S36. HRMS spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-chlorophenyl)acrylamide (**61**).

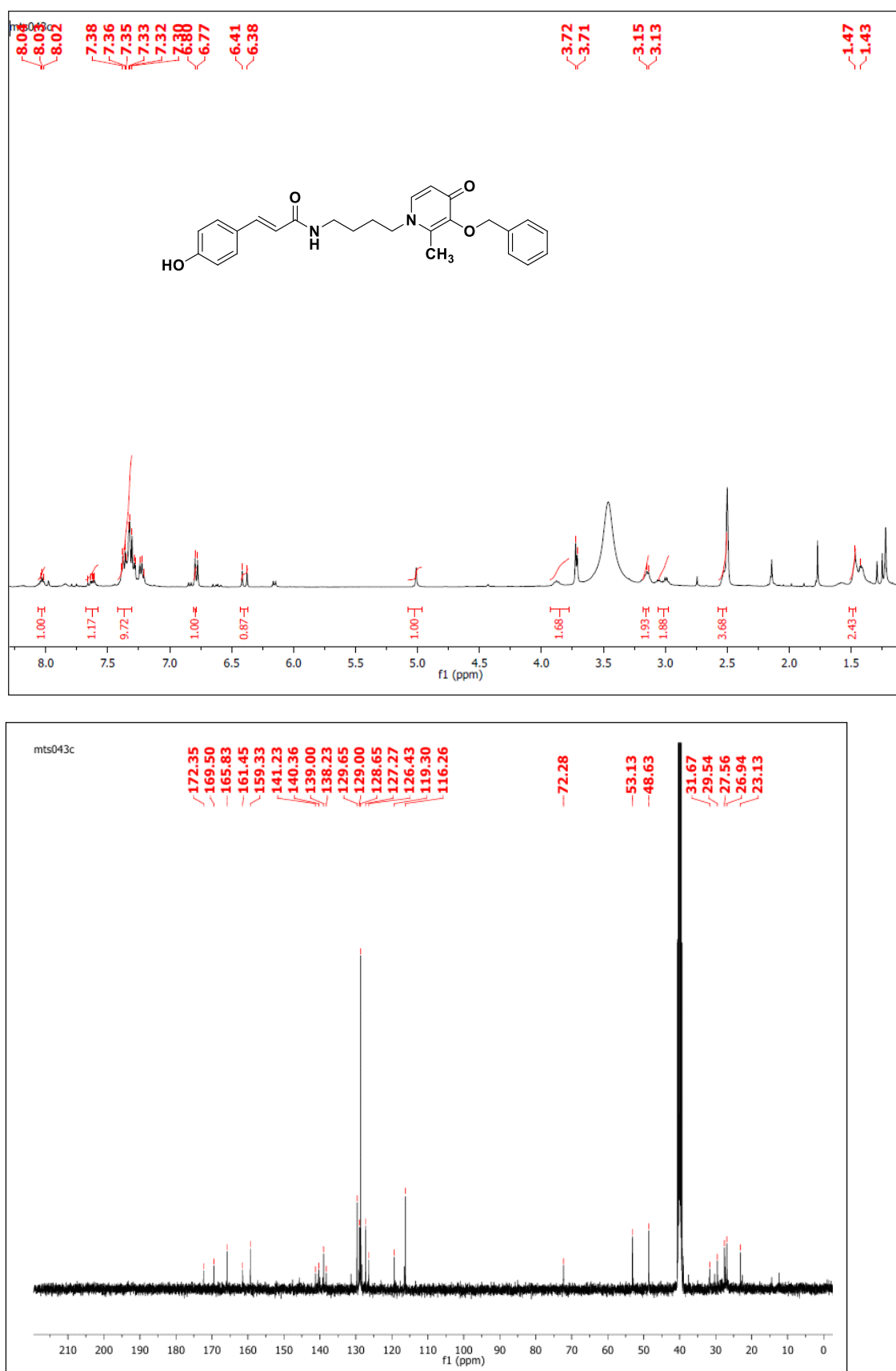


Figure S37. ¹H and ¹³C spectra of *(E)-N-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)butyl)-3-(4-hydroxyphenyl)acrylamide (6m)*.

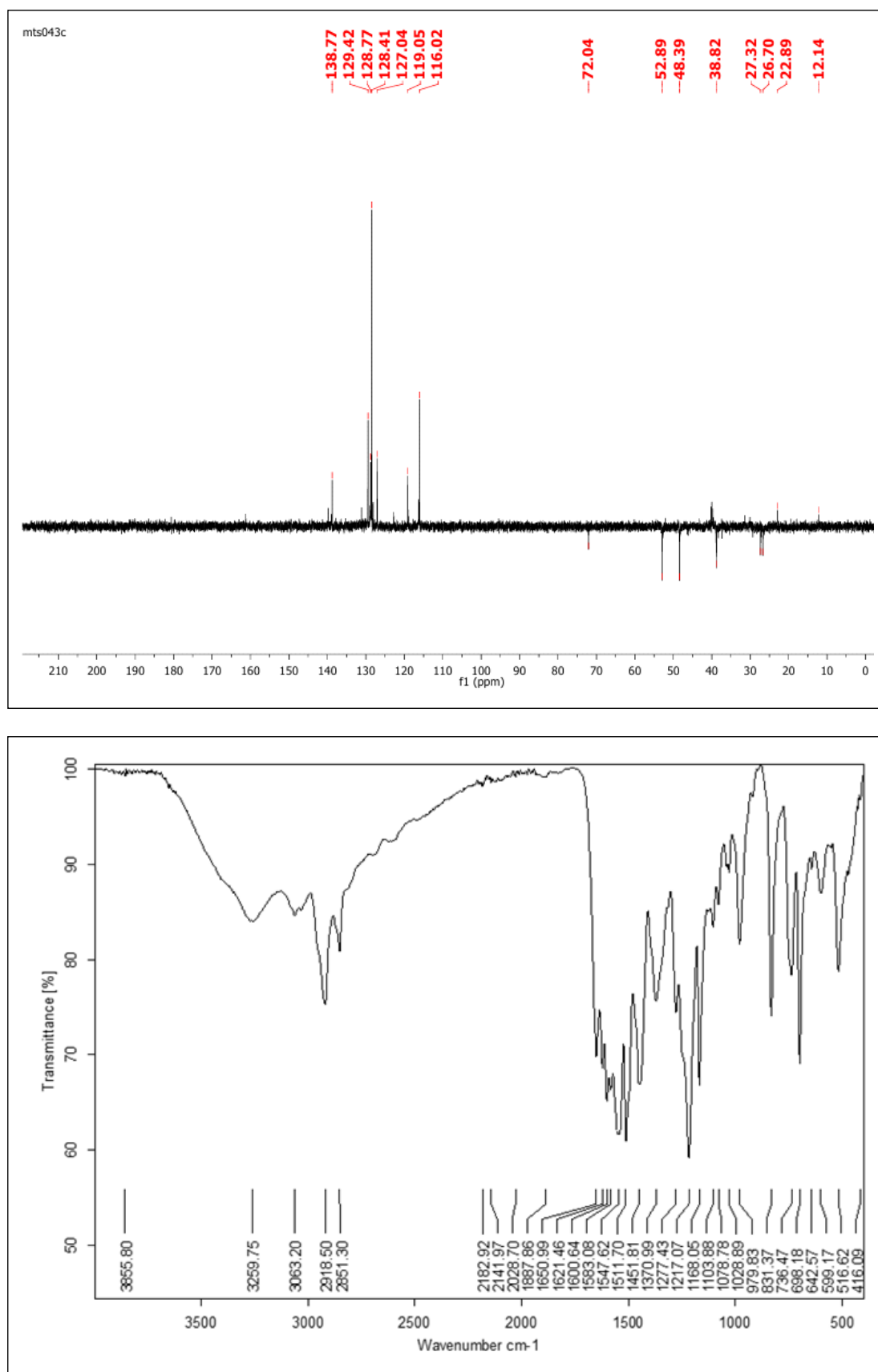


Figure S38. DEPT-135 and IR spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-hydroxyphenyl)acrylamide (**6m**).

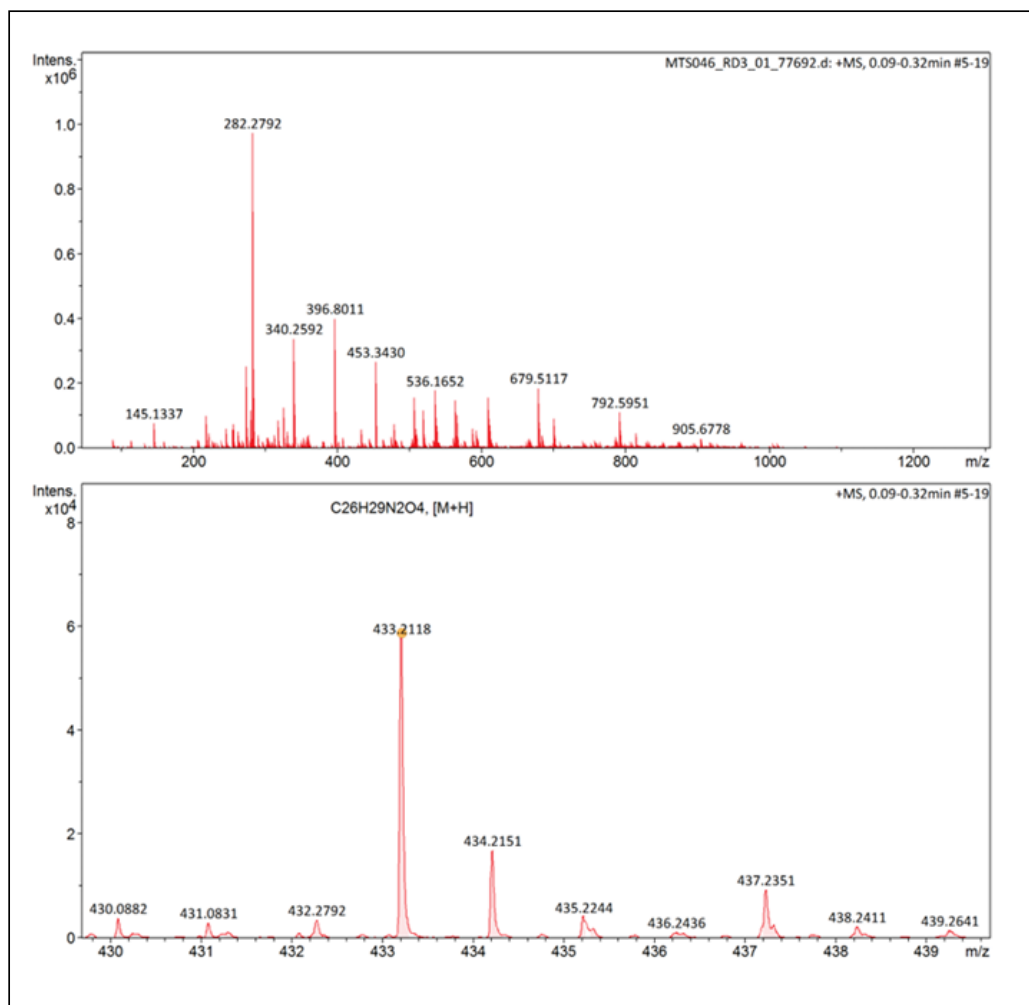


Figure S39. HRMS spectra of (*E*)-*N*-(4-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)butyl)-3-(4-hydroxyphenyl)acrylamide (**6m**).

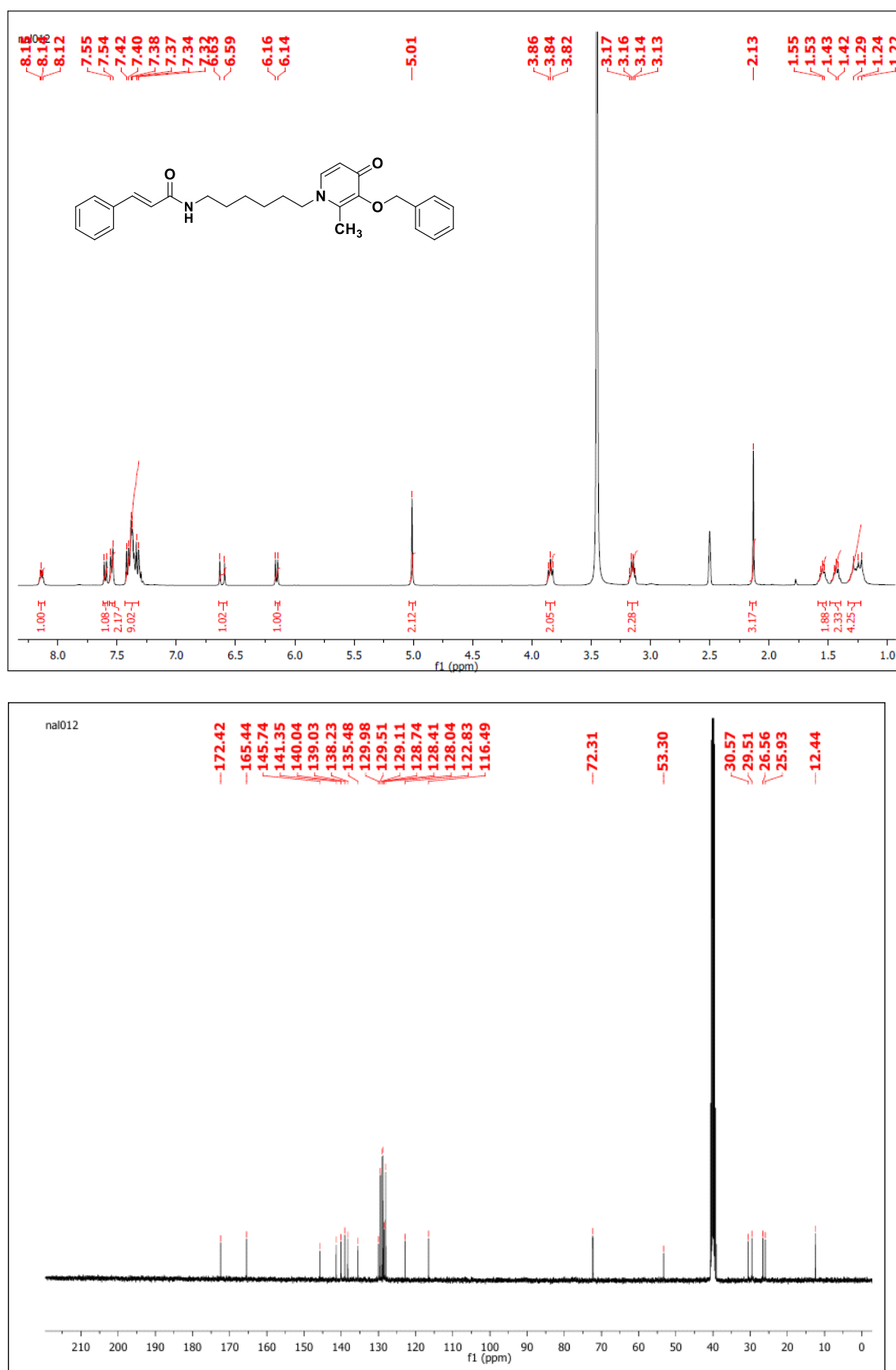


Figure S40. ¹H and ¹³C spectra of *N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4H)-yl)hexyl)cinnamamide (**6n**).

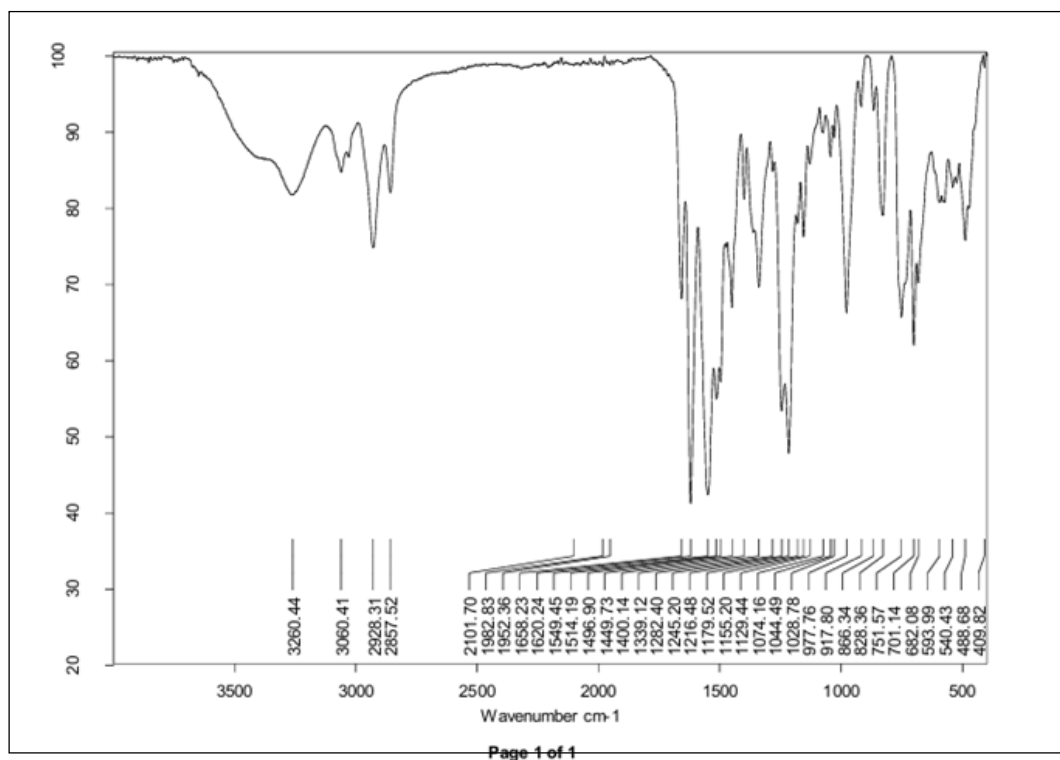
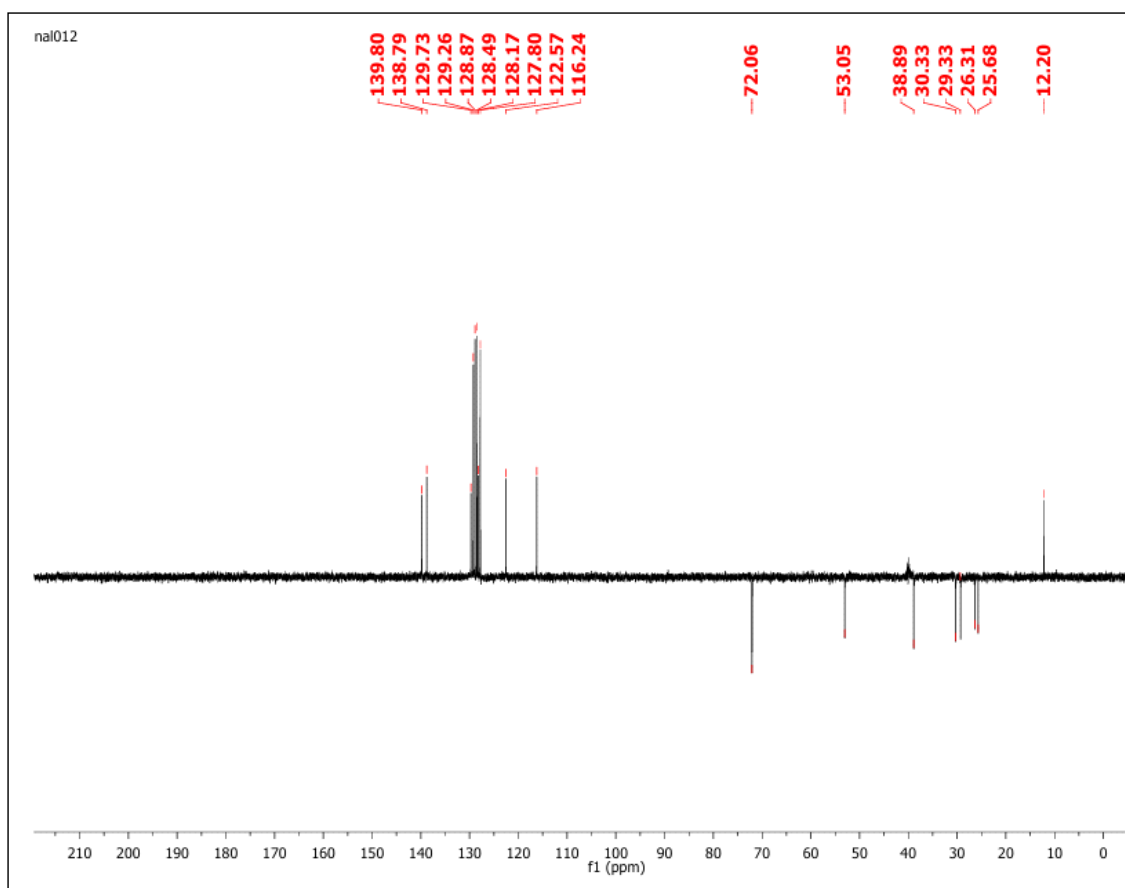


Figure S41. DEPT-135 and IR spectra of *N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)-hexyl)cinnamamide (**6n**).

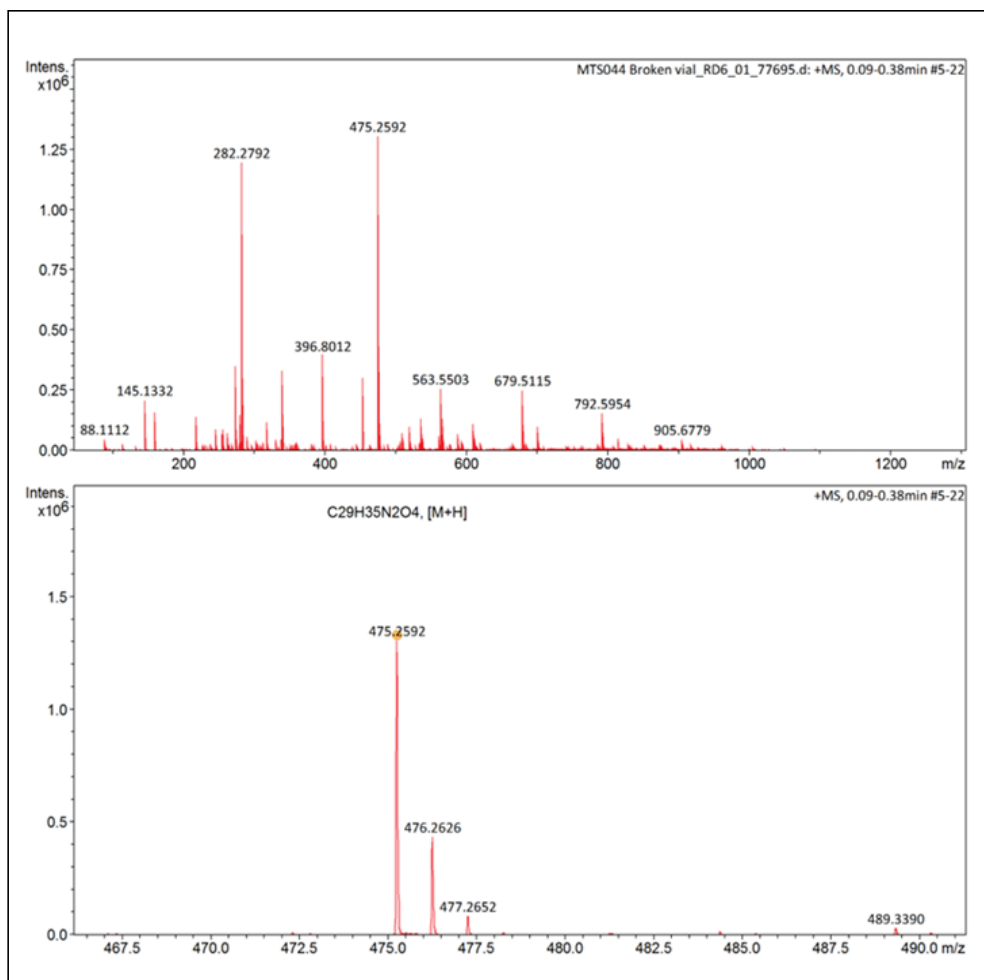


Figure S42. HRMS spectra of *N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)cinnamamide (6n).

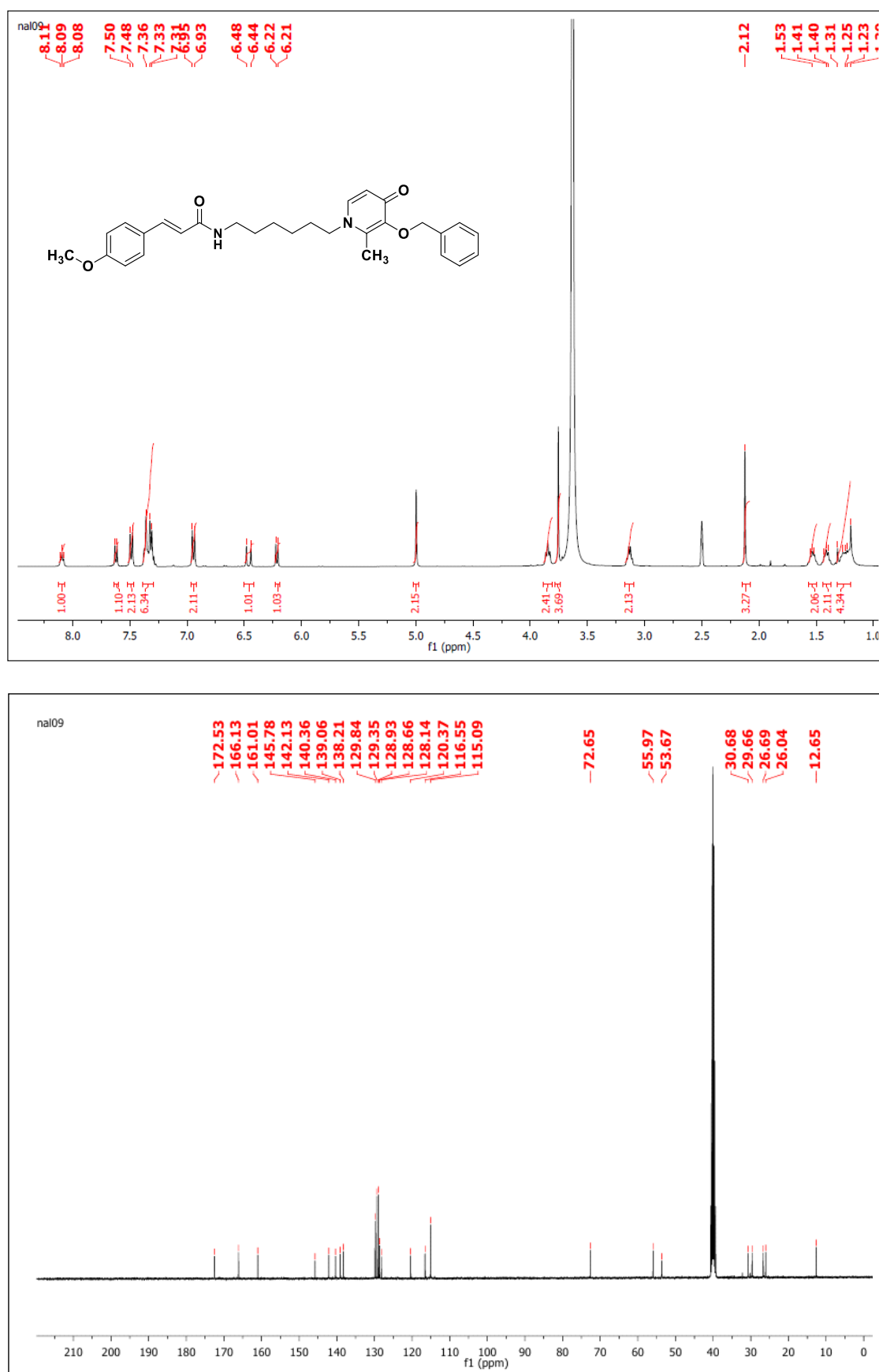


Figure S43. ¹H and ¹³C spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-methoxyphenyl)acrylamide (**60**).

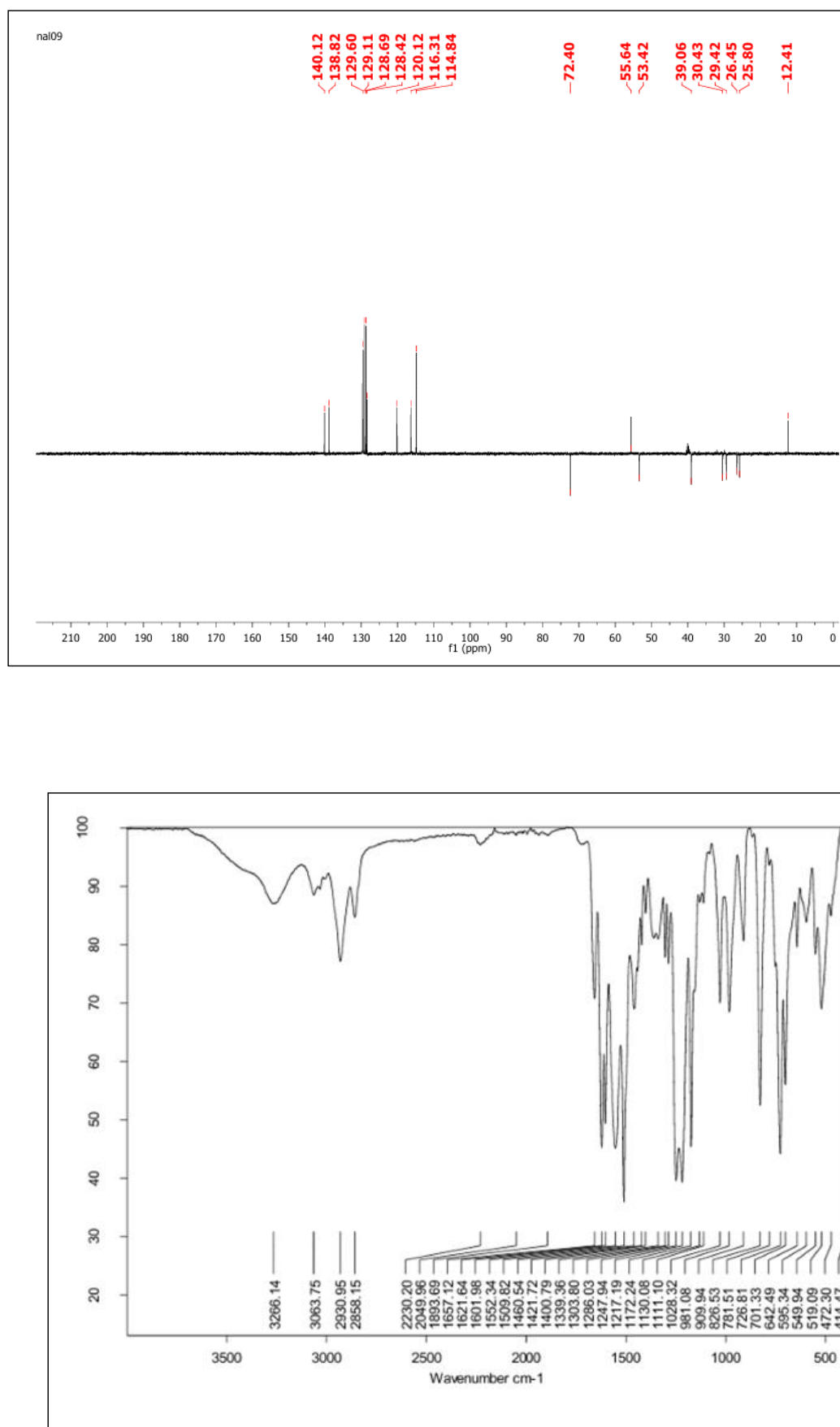


Figure S44. DEPT-135 and IR spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-methoxyphenyl)acrylamide (**6o**).

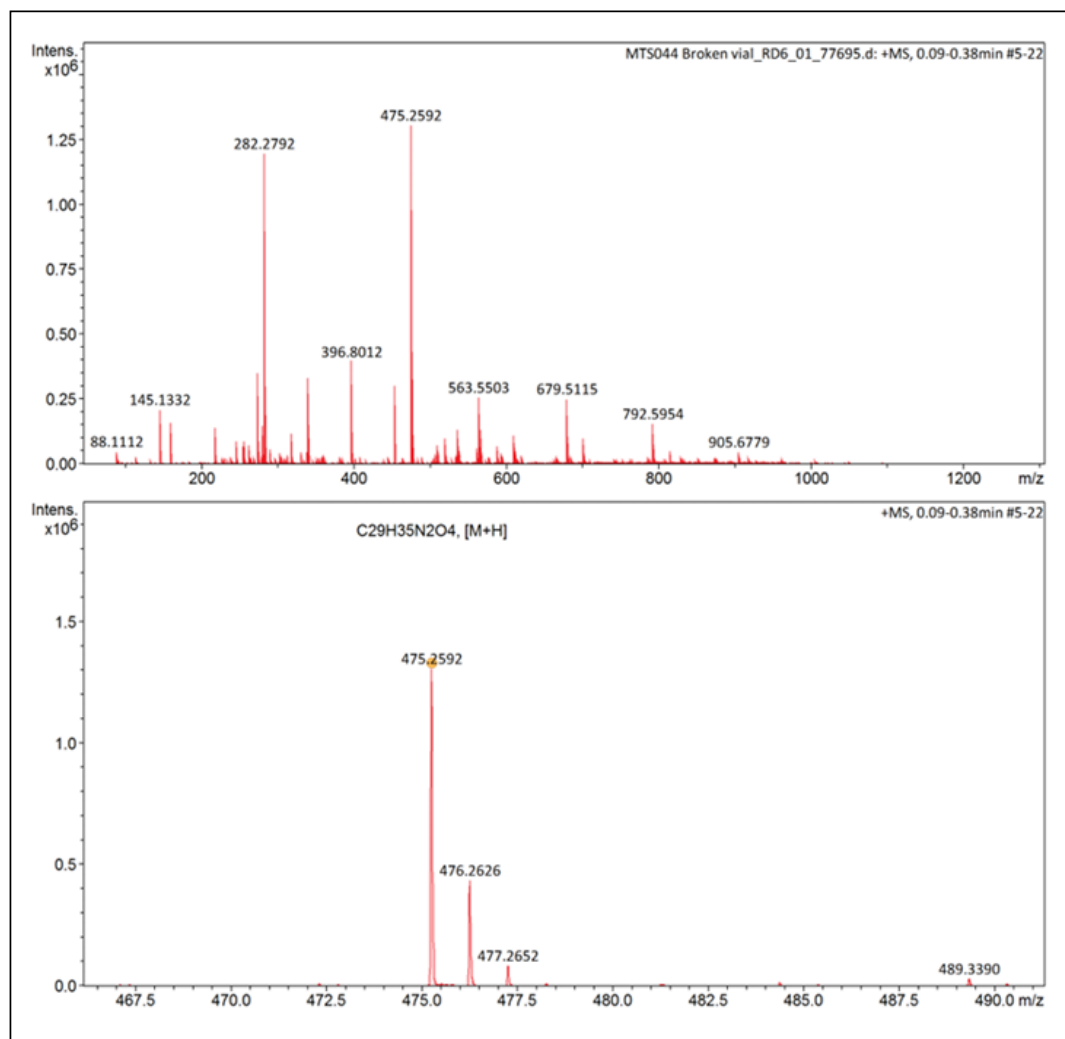


Figure S45. HRMS spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-methoxyphenyl)acrylamide (**60**).

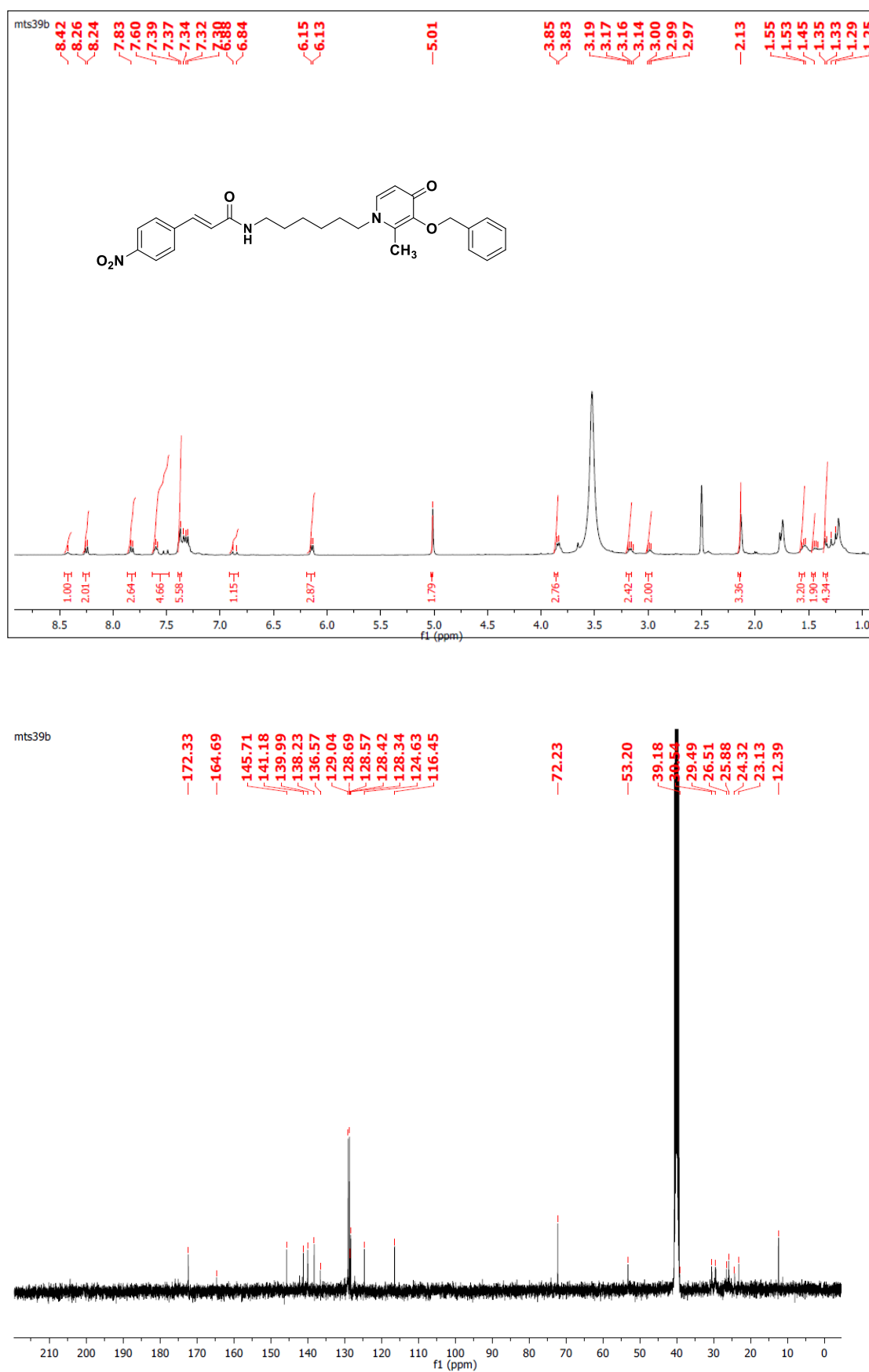


Figure S46. ¹H and ¹³C spectra of *(E)*-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-nitrophenyl)acrylamide (**6p**).

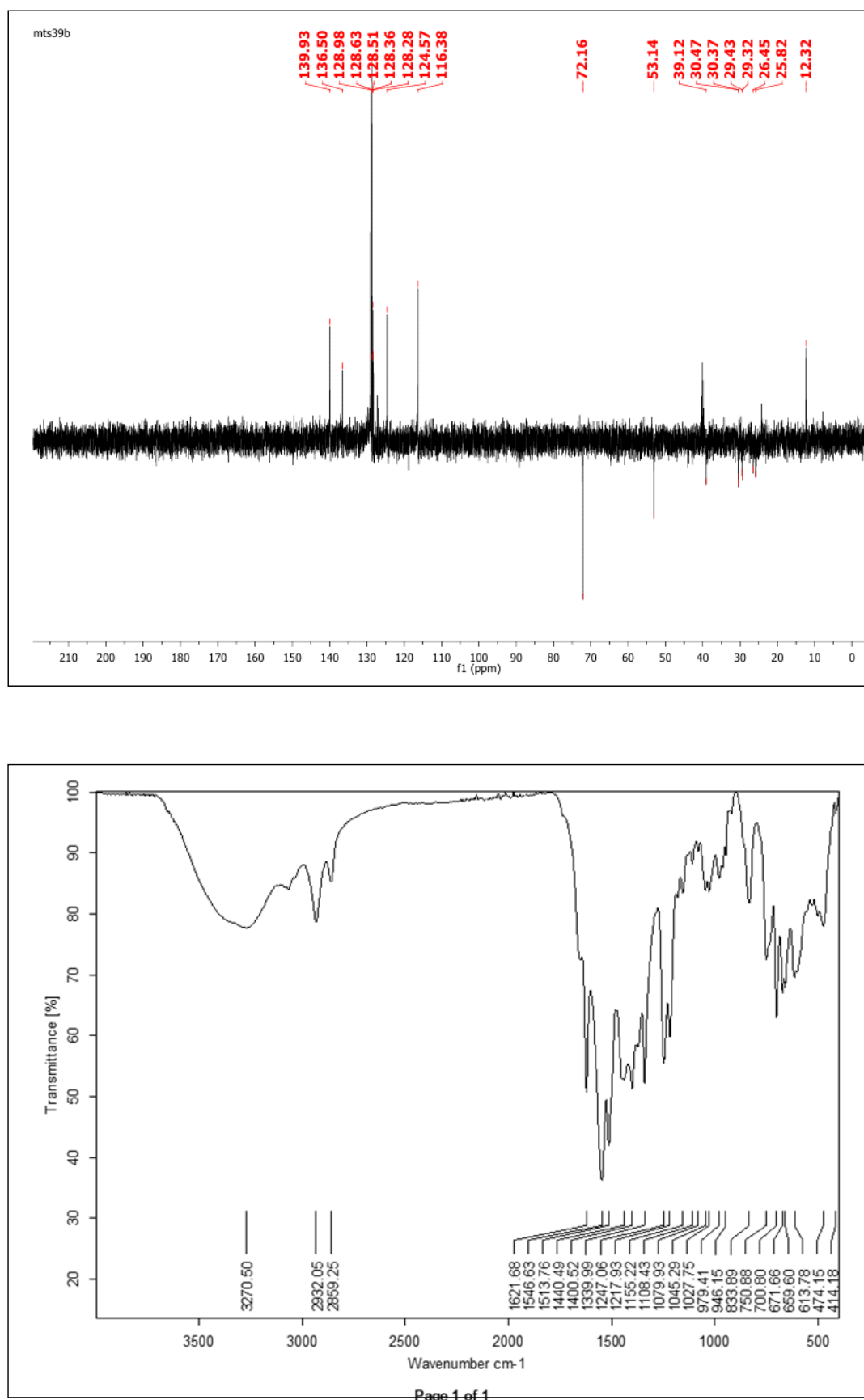


Figure S47. DEPT-135 and IR spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-nitrophenyl)acrylamide (**6p**).

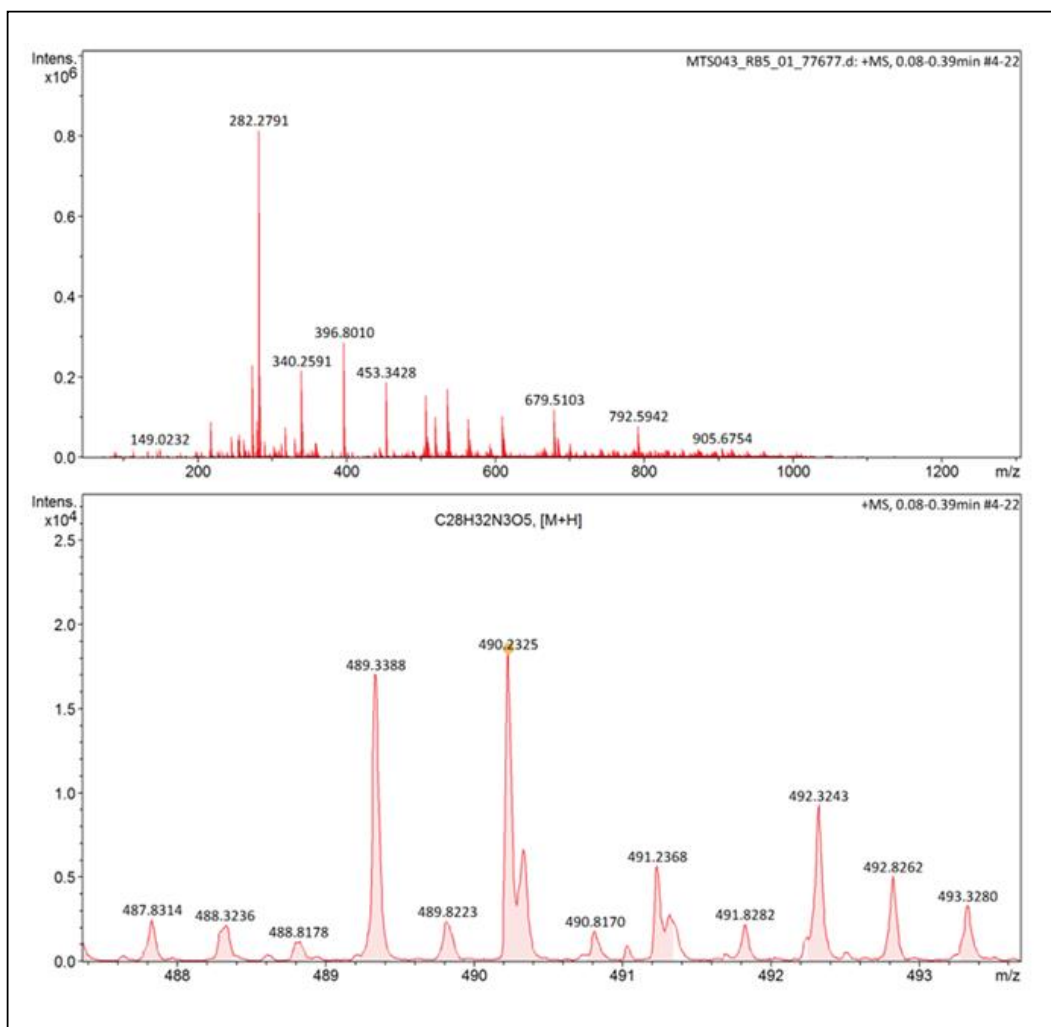


Figure S48. HRMS spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-nitrophenyl)acrylamide (**6p**).

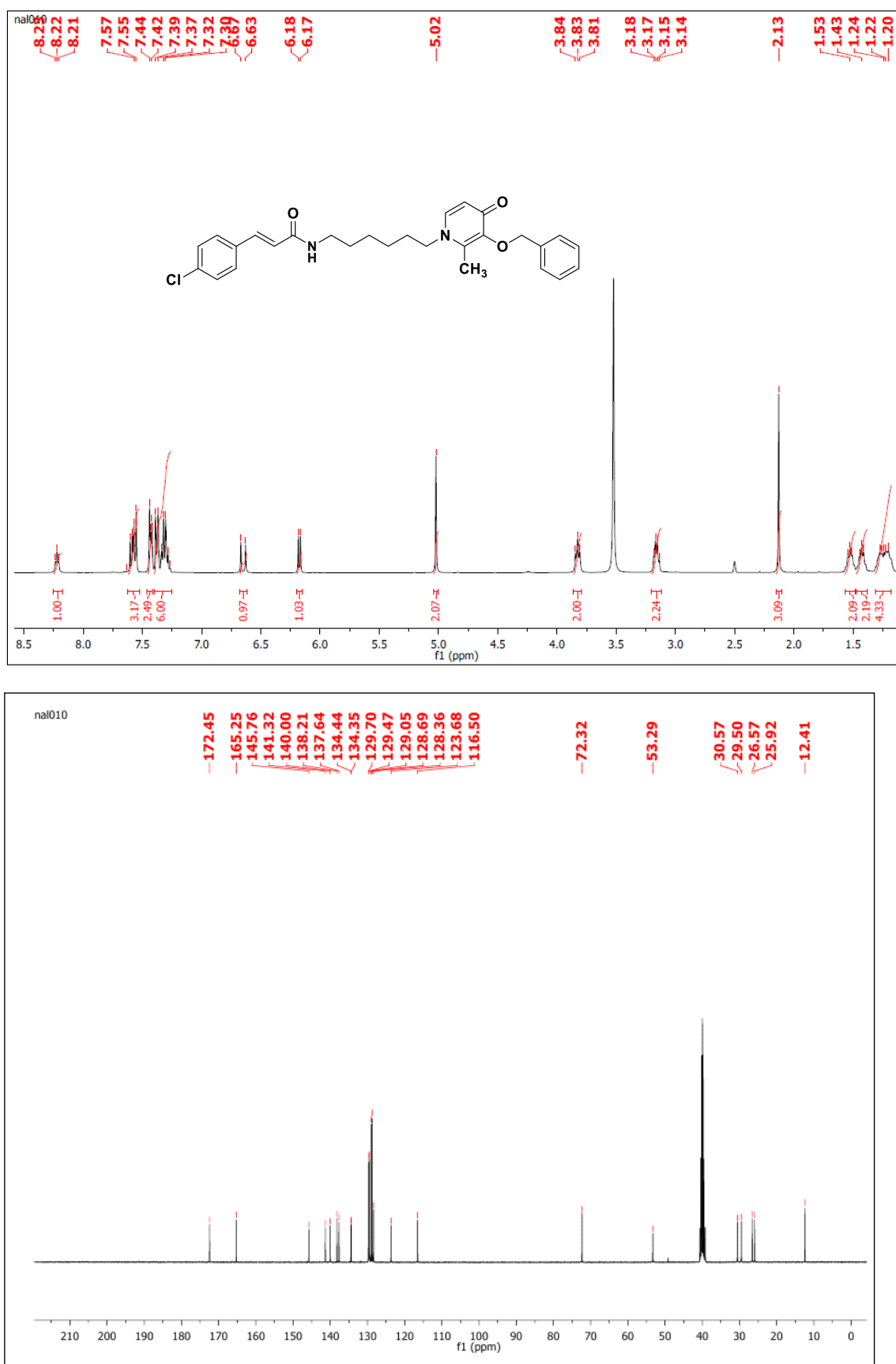


Figure S49. ¹H and ¹³C spectra of *(E)*-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl) hexyl)-3-(4-chlorophenyl)acrylamide (**6q**).

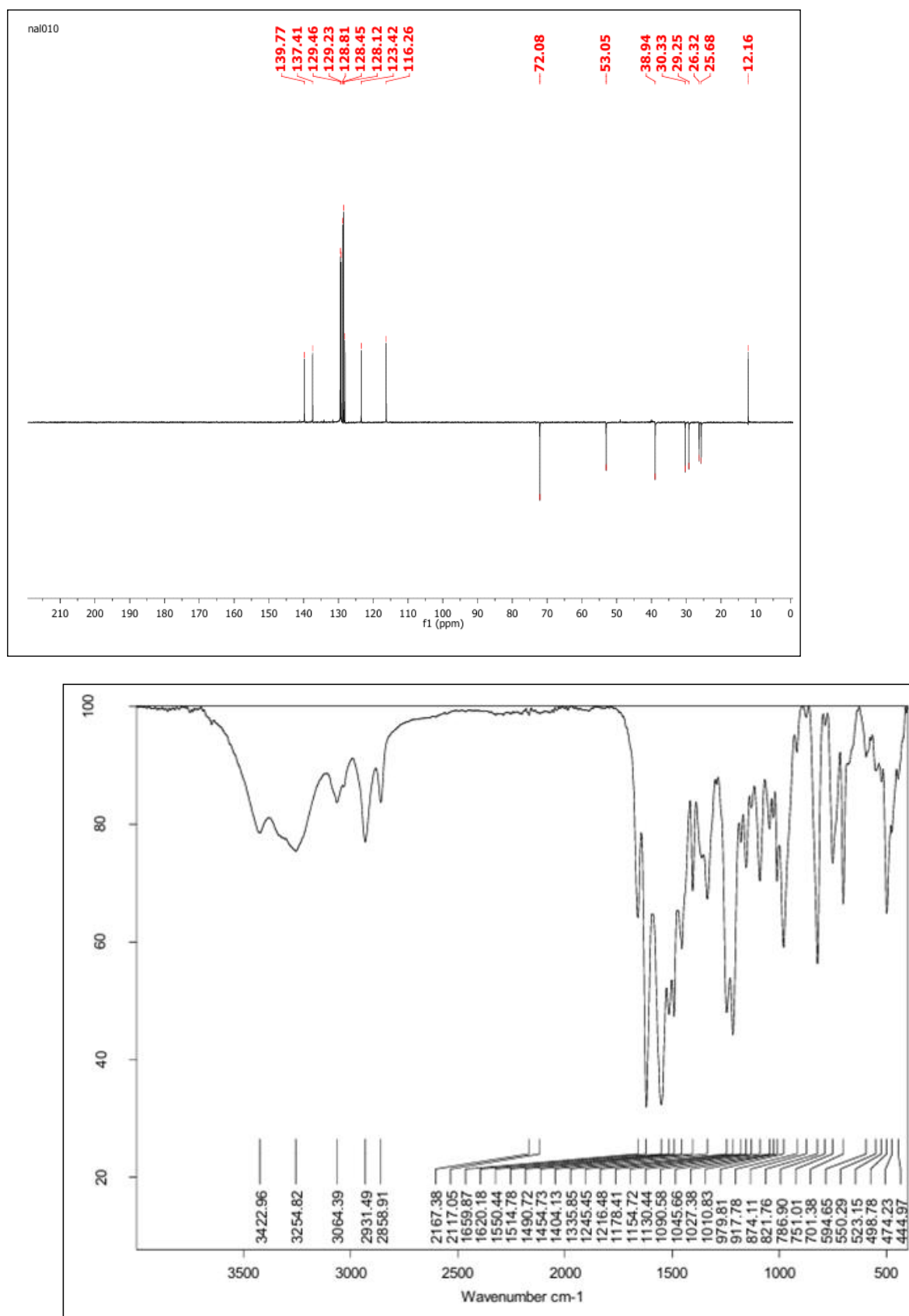


Figure S50. DEPT-135 and IR spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl)hexyl)-3-(4-chlorophenyl)acrylamide (**6q**).

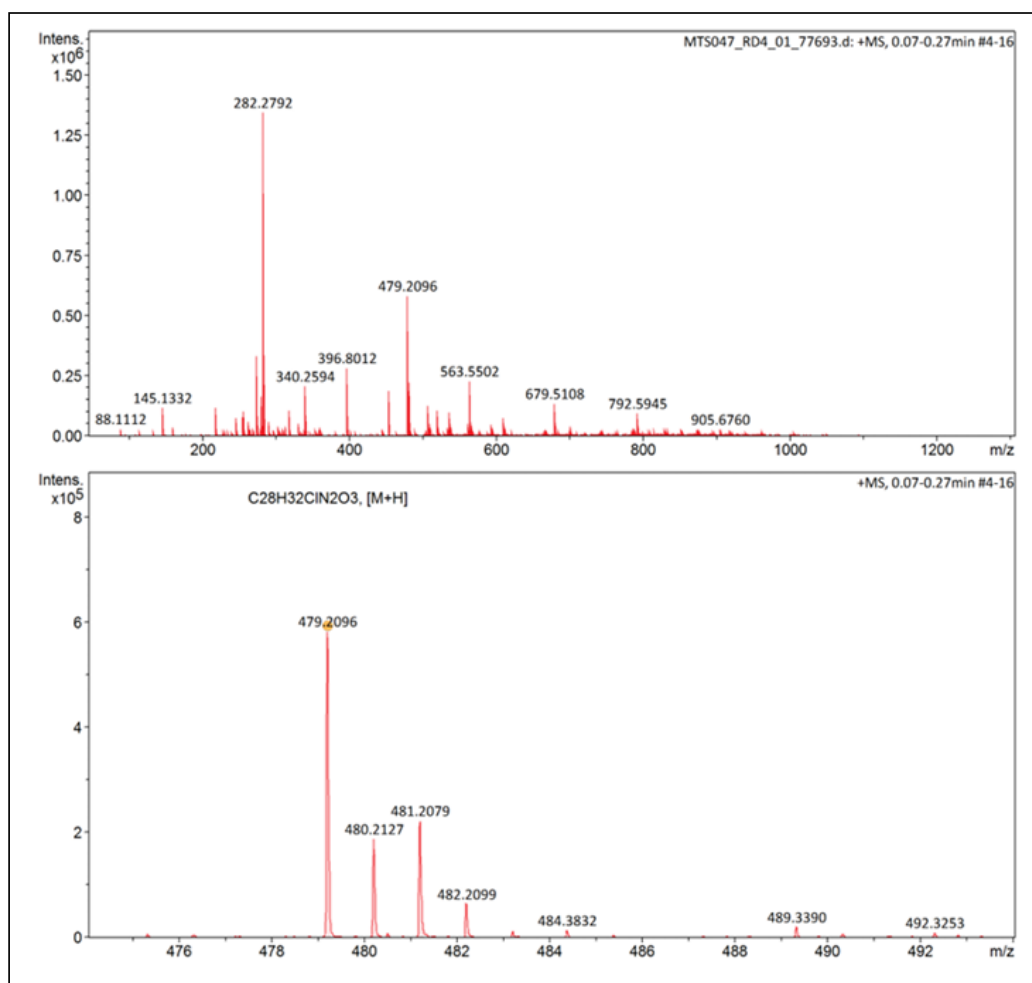


Figure S51. HRMS spectra of (*E*)-*N*-(6-(3-(benzyloxy)-2-methyl-4-oxopyridin-1(4*H*)-yl) hexyl)-3-(4-chlorophenyl)acrylamide (**6q**).