

Cembrane-Type Diterpenoids from the Gum Resin of *Boswellia carterii* and Their Biological Activities

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Supplementary material

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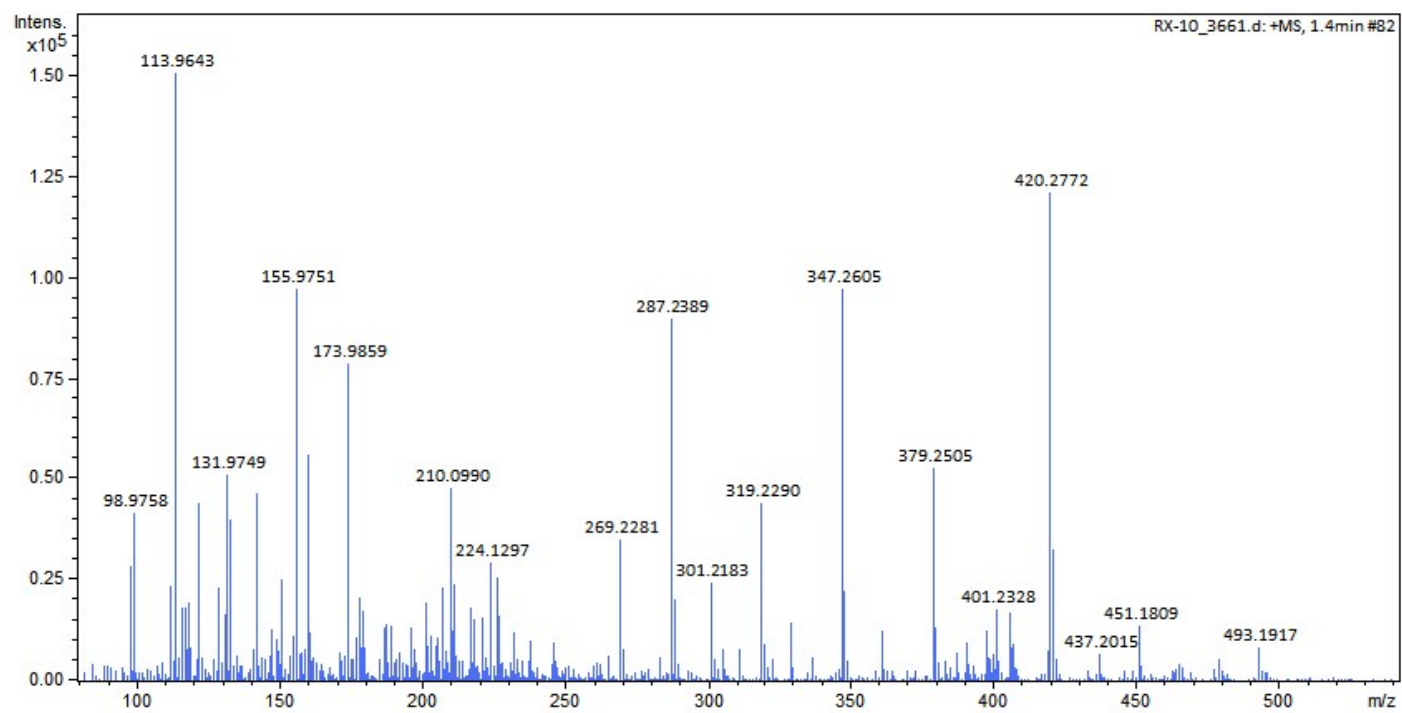


Figure S1. The HREIMS Spectroscopic Data of Compound 1

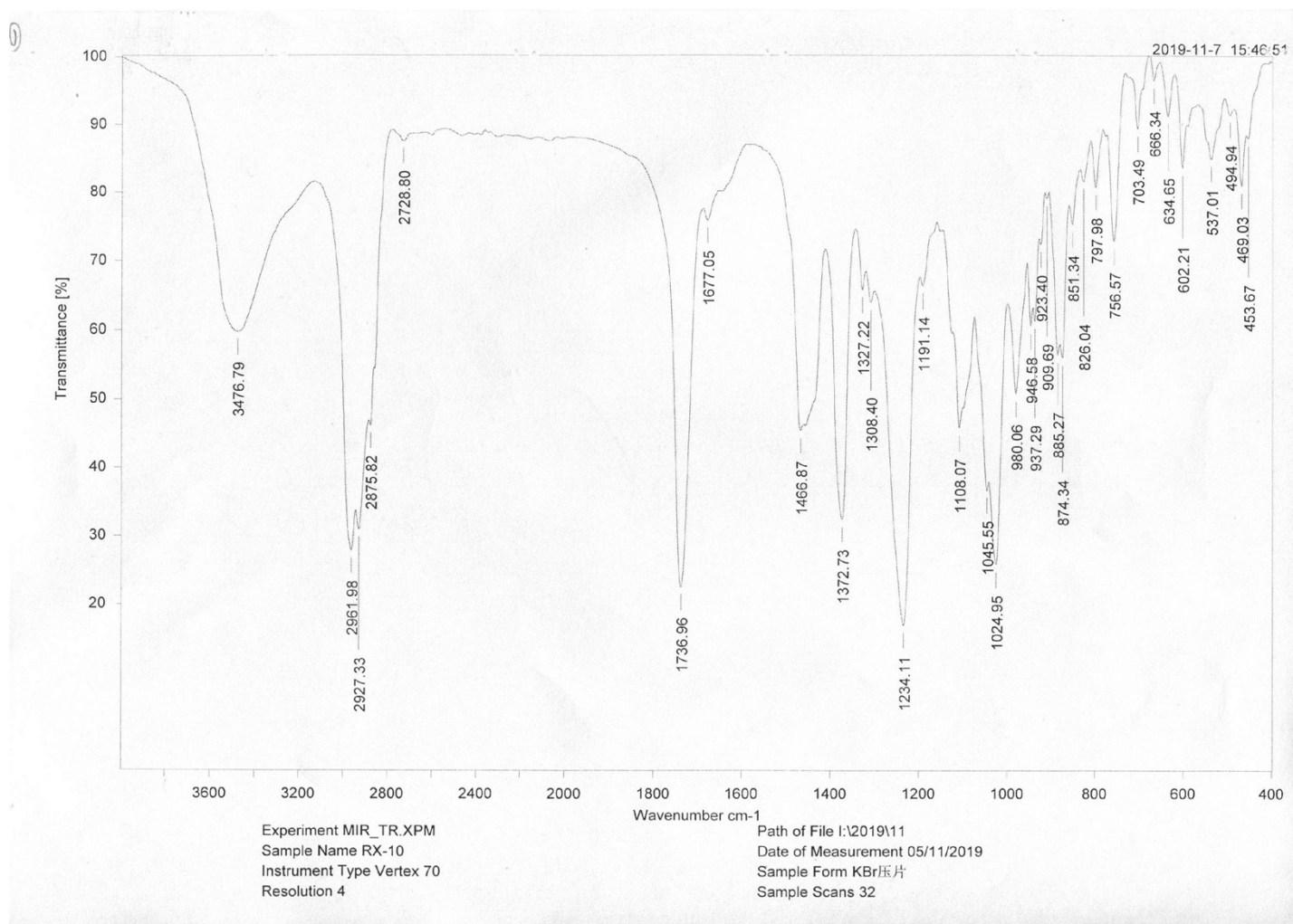


Figure S2. The IR Spectrum of Compound 1

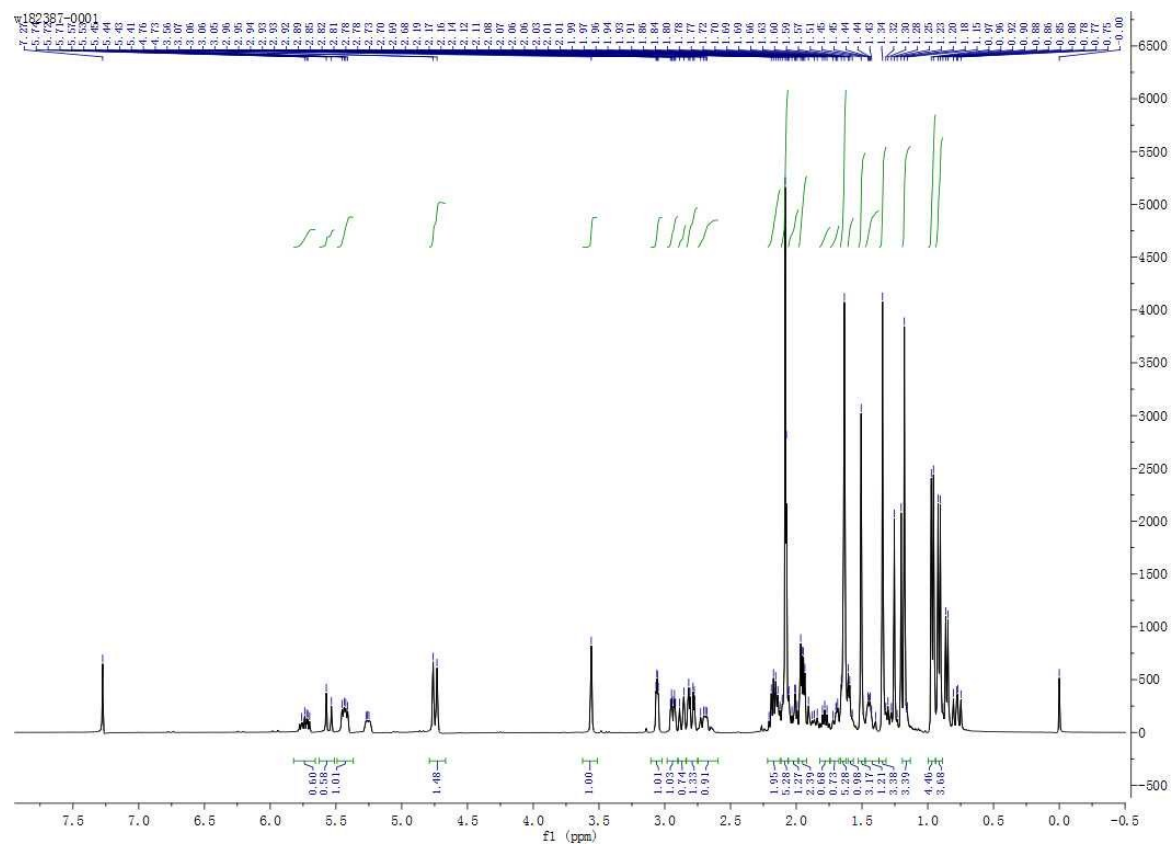


Figure S3. The ^1H NMR Spectrum of Compound 1 in CDCl_3 (400 MHz)

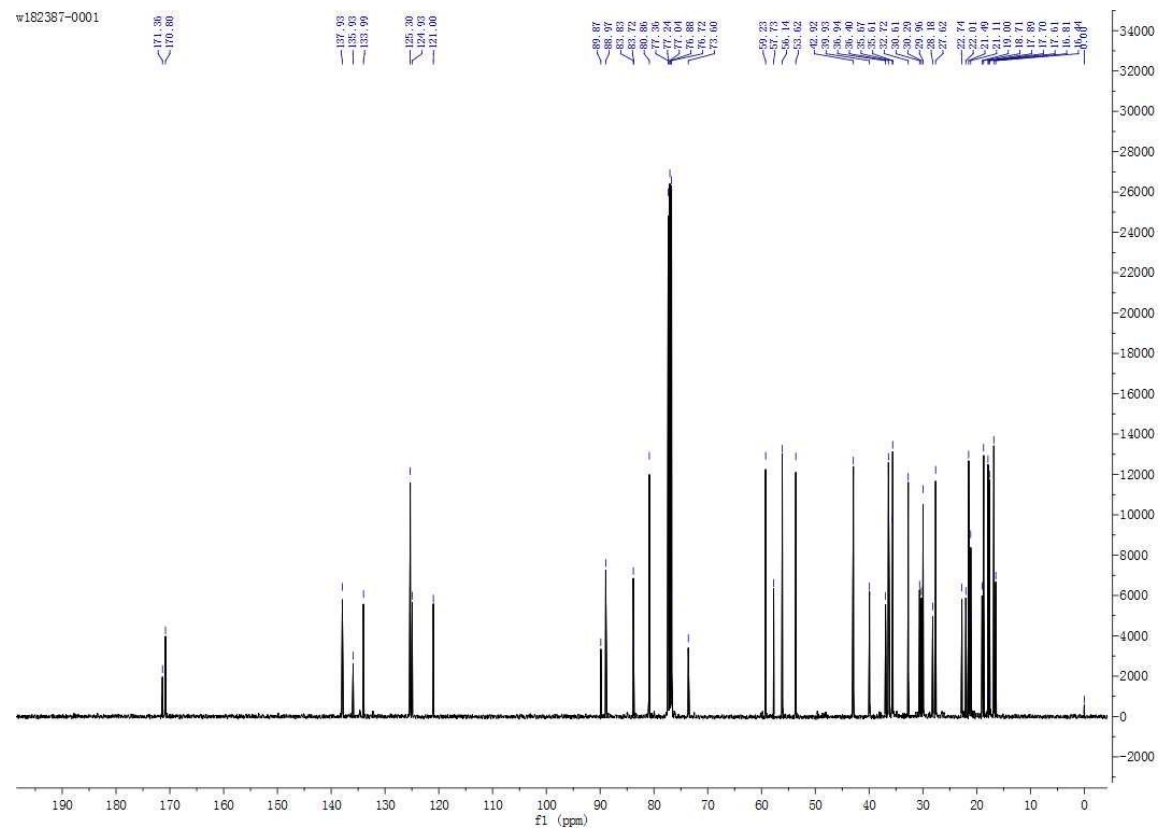


Figure S4. The ^{13}C NMR Spectrum of Compound **1** in CDCl_3 (100 MHz)

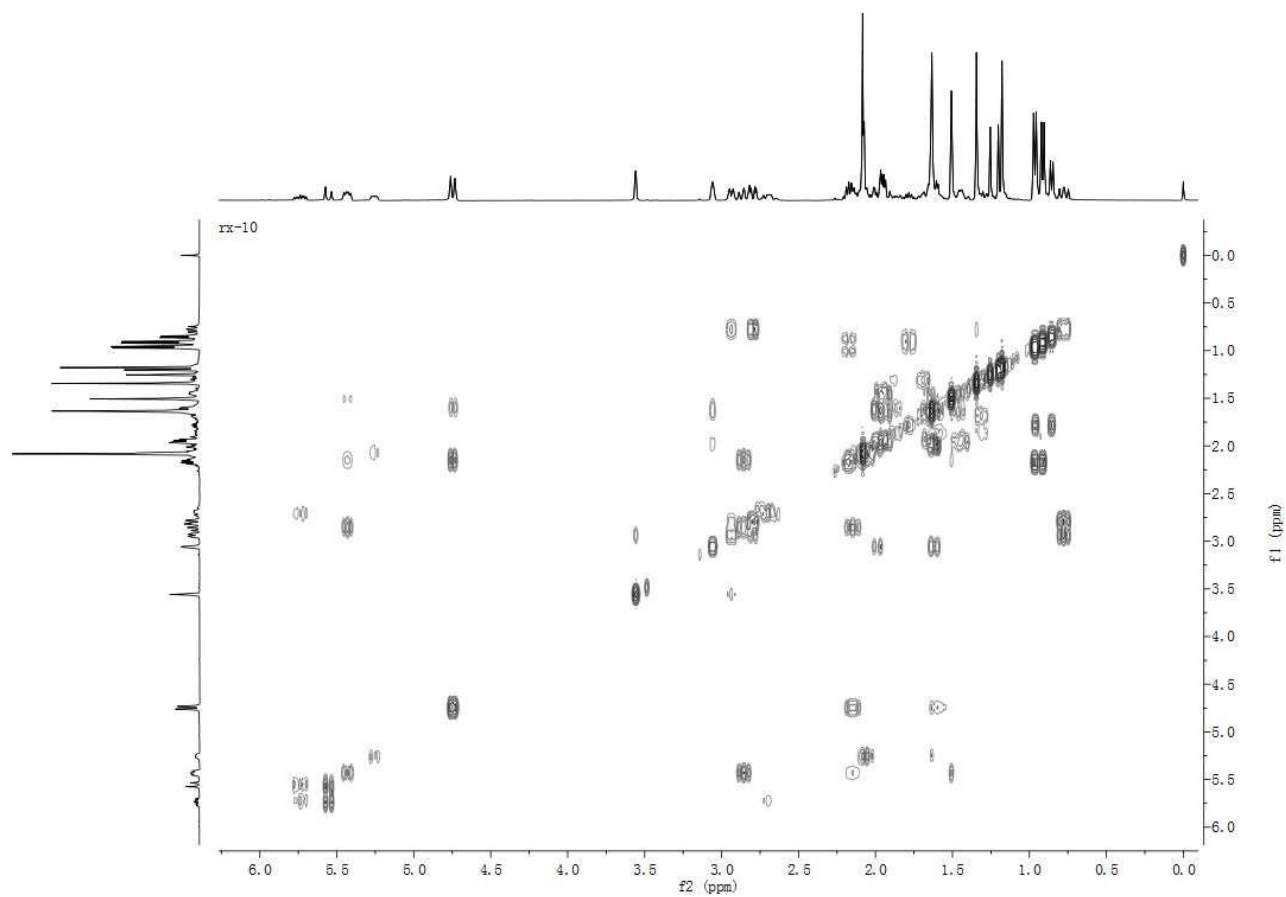


Figure S5. The ^1H - ^1H COSY Spectrum of Compound **1** in CDCl_3 (400 MHz for ^1H)

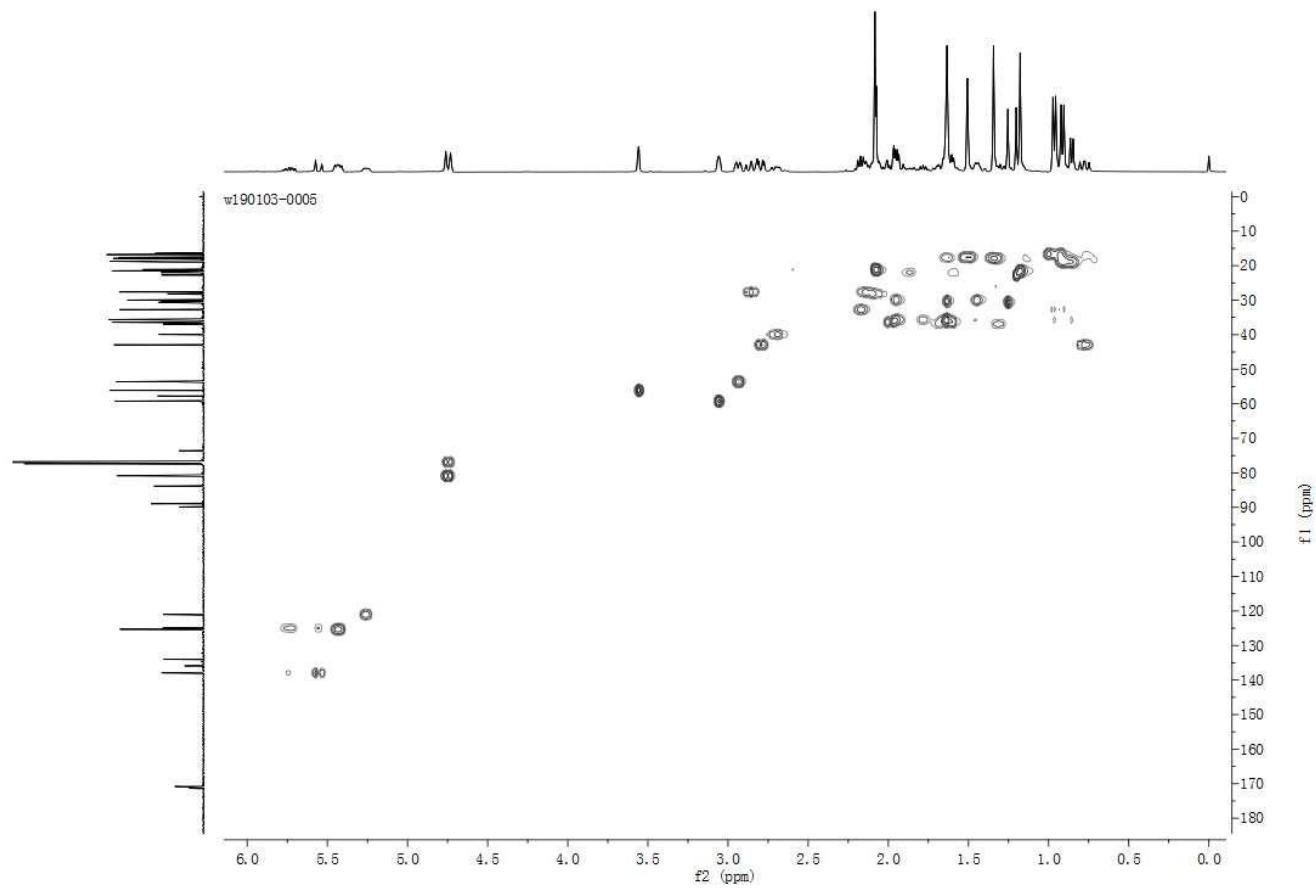


Figure S6. The HSQC Spectrum of Compound **1** in CDCl_3 (400 MHz for ^1H)

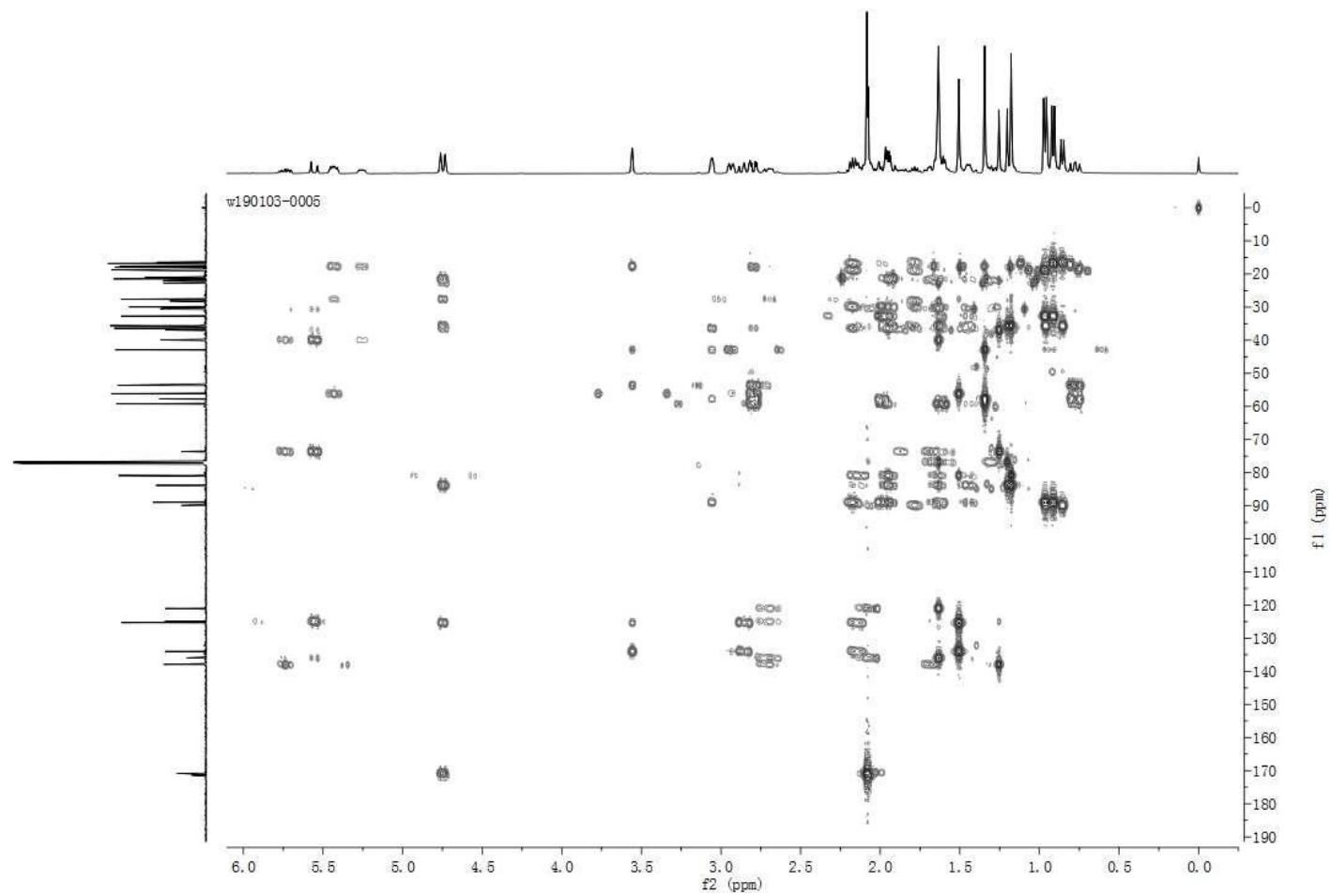


Figure S7. The HMBC Spectrum of Compound **1** in CDCl_3 (400 MHz for ^1H)

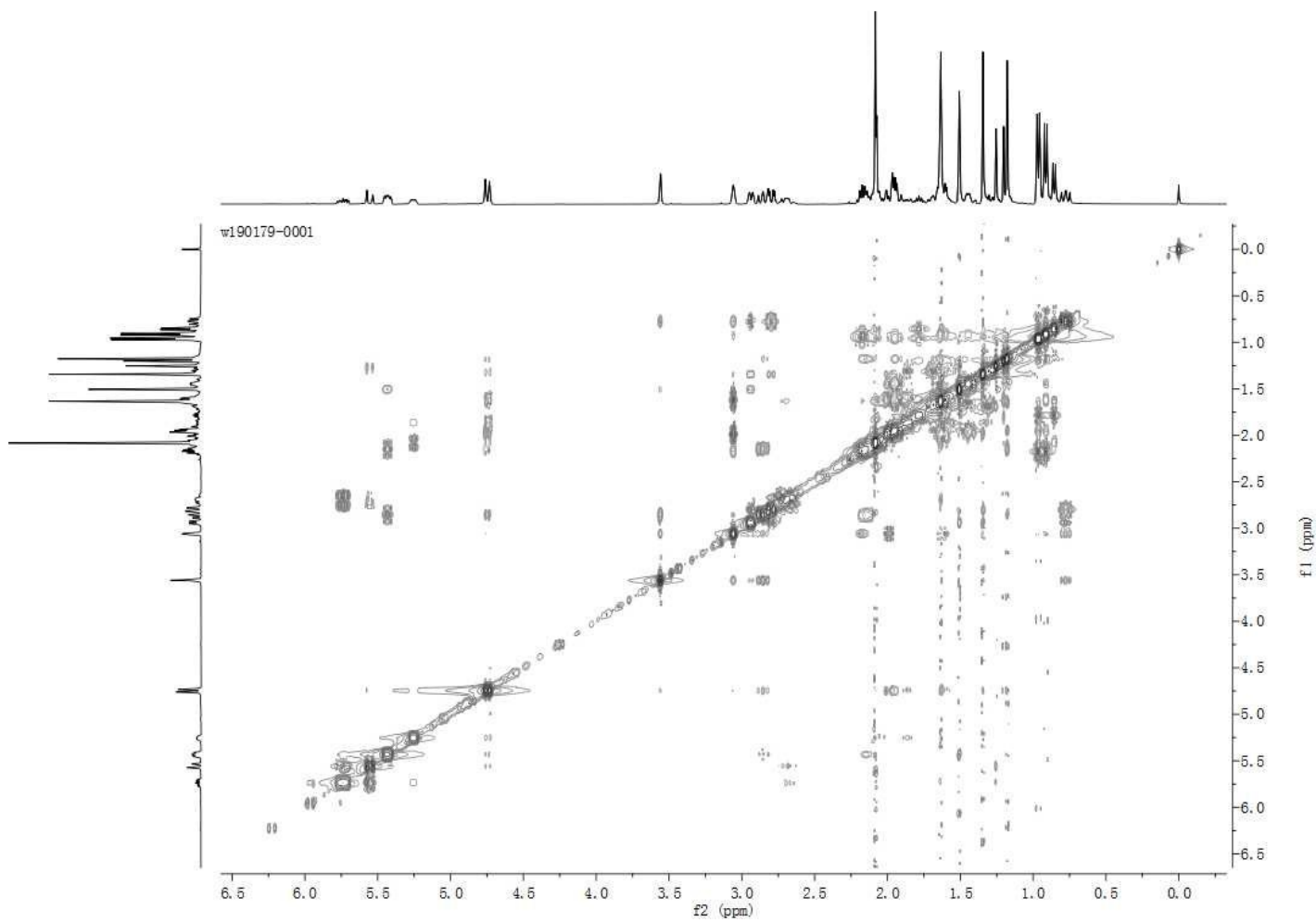


Figure S8. The NOESY Spectrum of Compound **1** in CDCl_3 (400 MHz for ^1H)

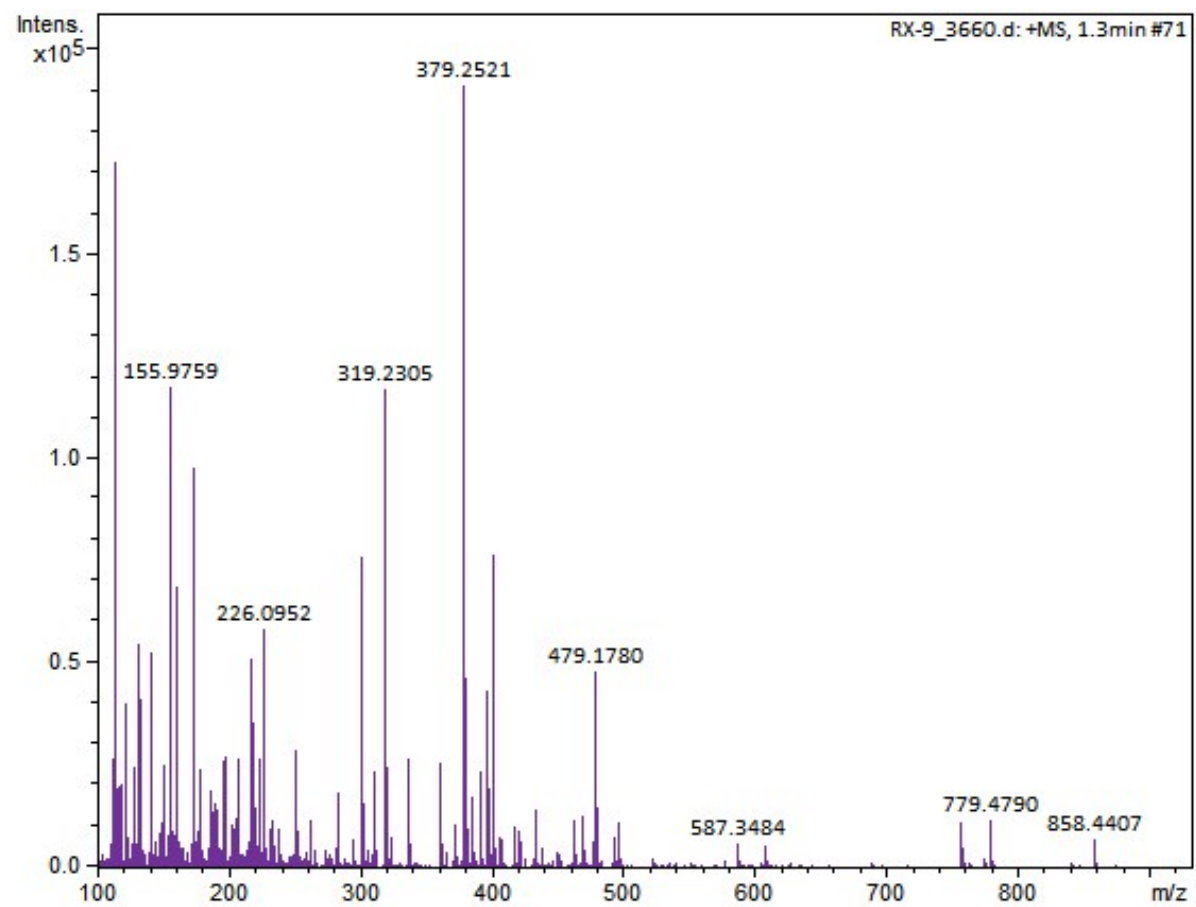


Figure S9. The HREIMS Spectroscopic Data of Compound 2

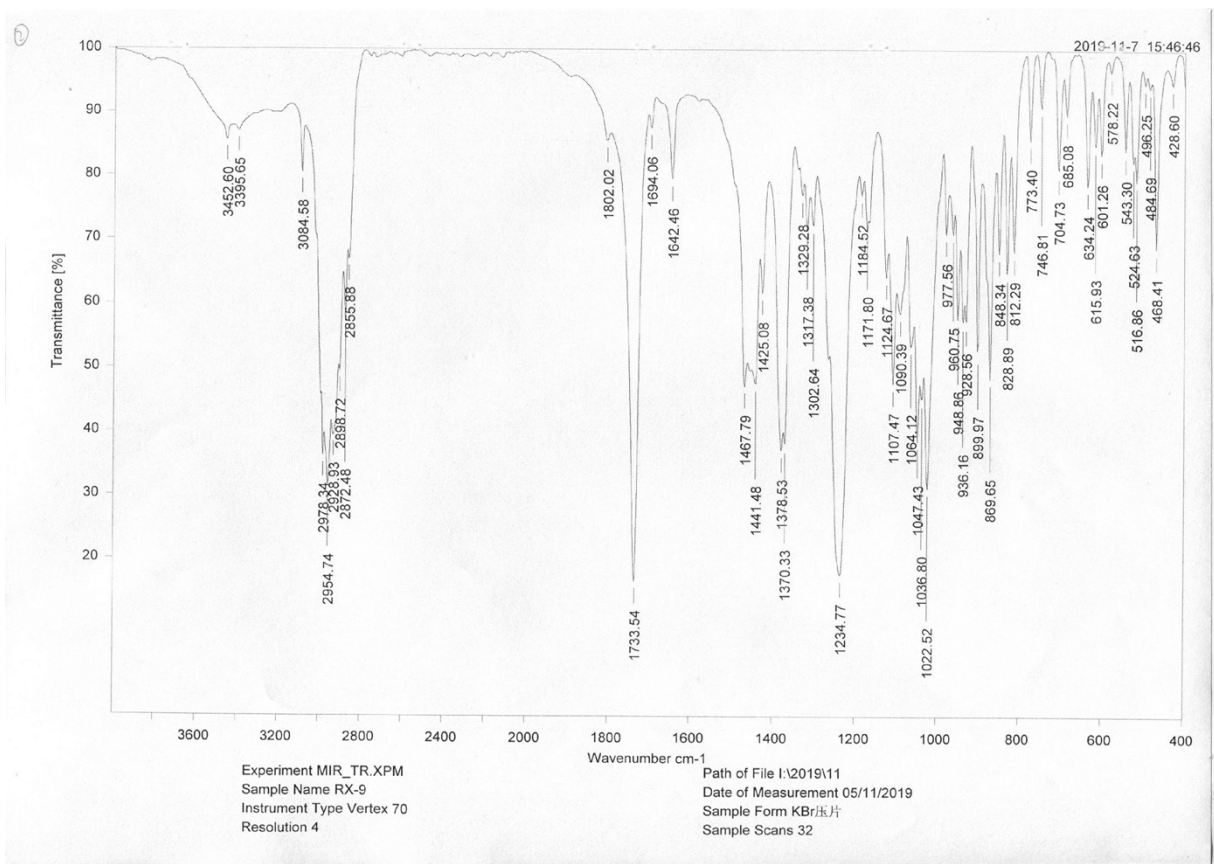


Figure S10. The IR Spectrum of Compound 2

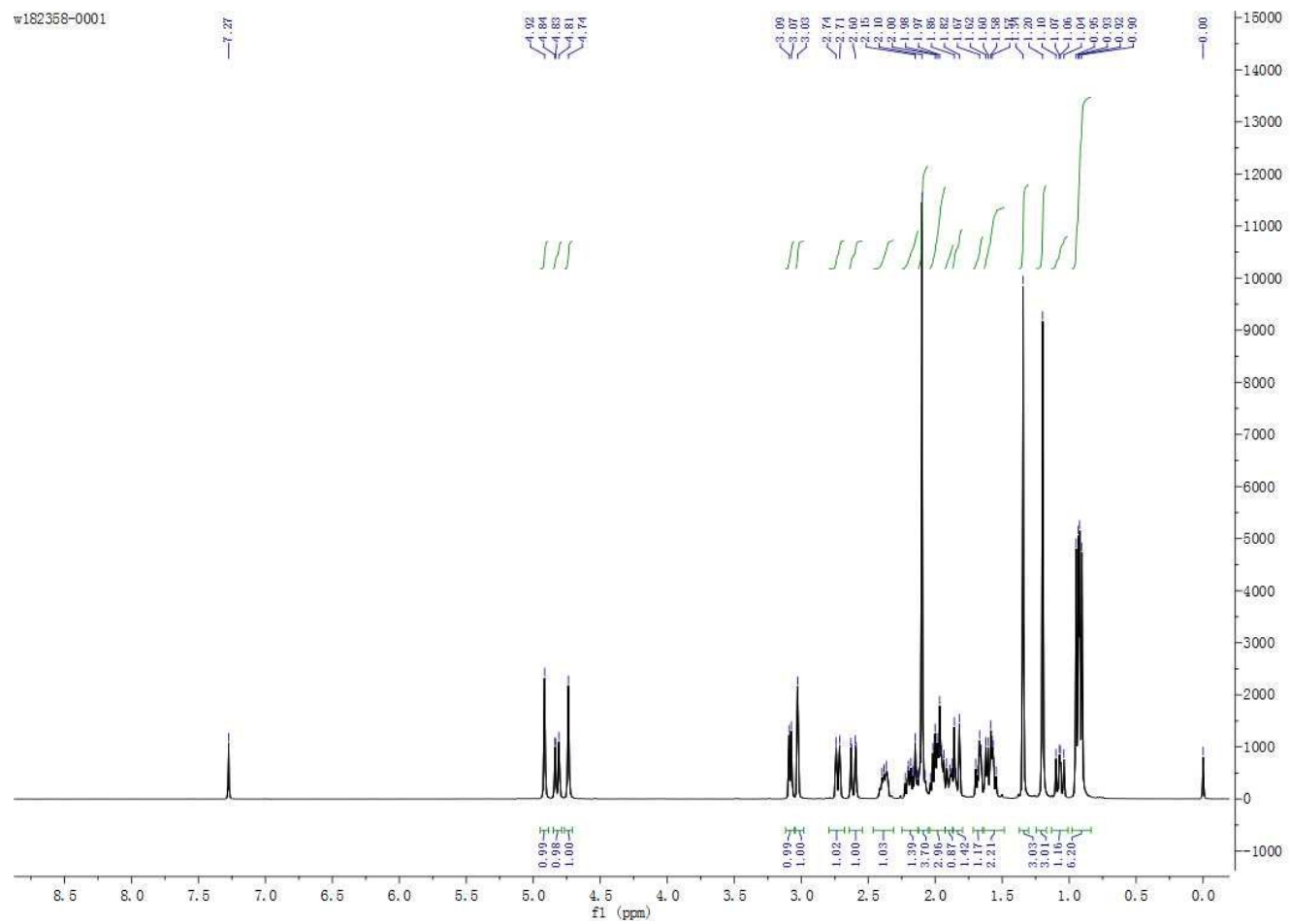


Figure S11. The ^1H NMR Spectrum of Compound **2** in CDCl_3 (400 MHz)

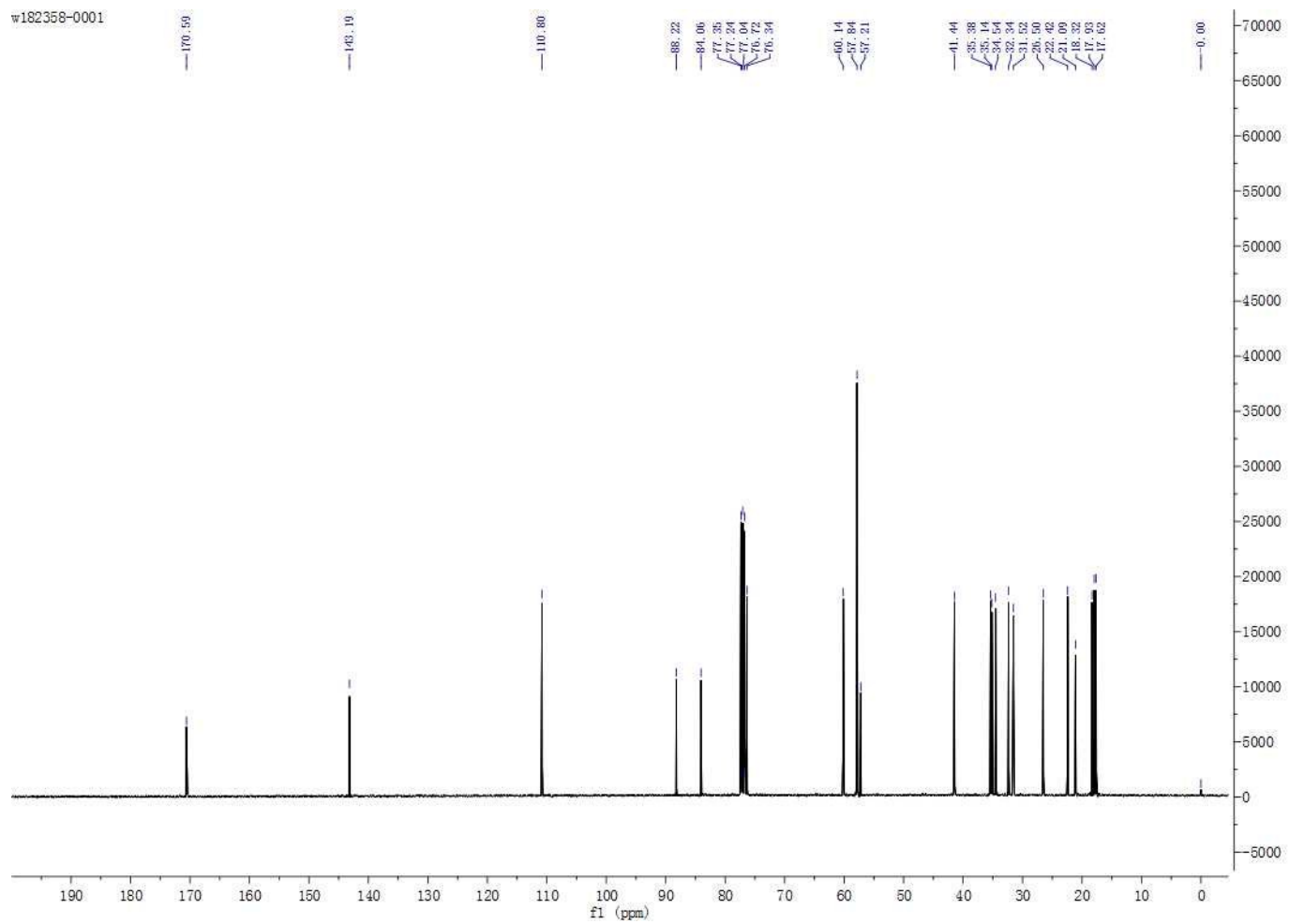


Figure S12. The ^{13}C NMR Spectrum of Compound **2** in CDCl_3 (100 MHz)

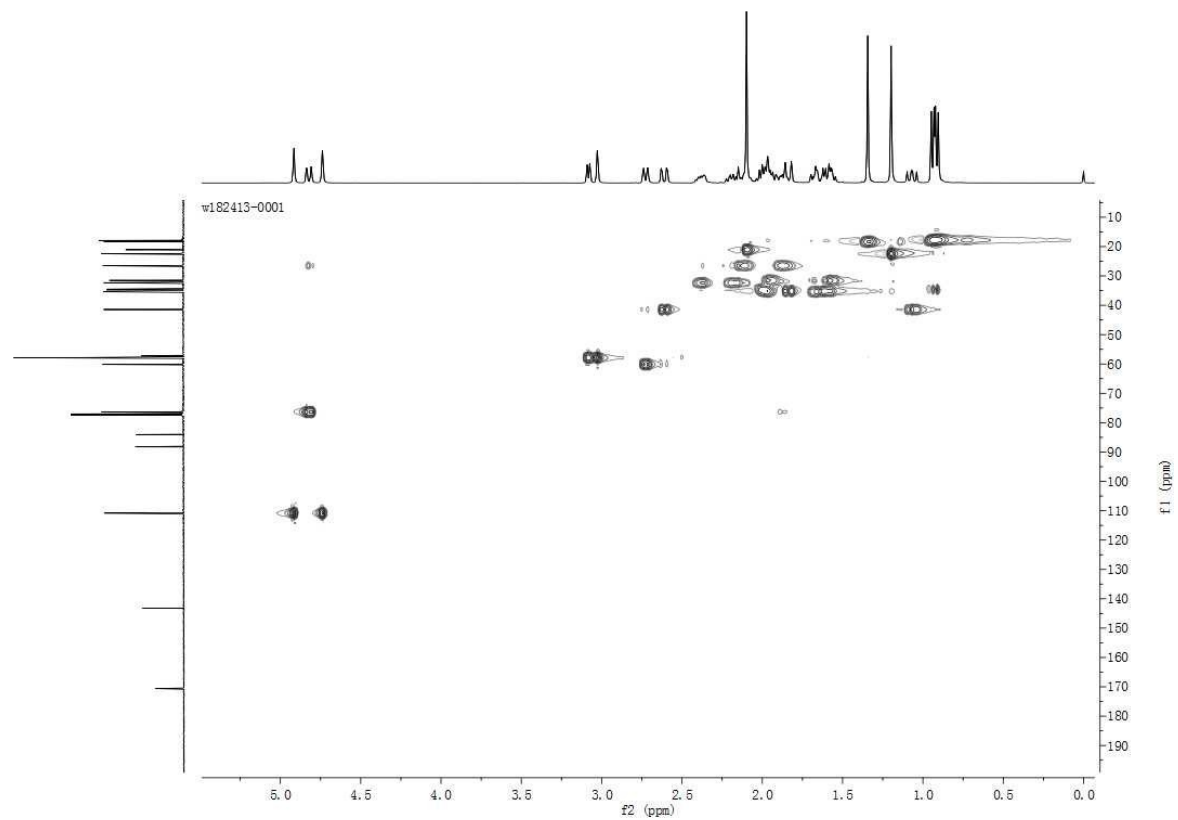


Figure S13. The HSQC Spectrum of Compound **2** in CDCl_3 (400 MHz for ^1H)

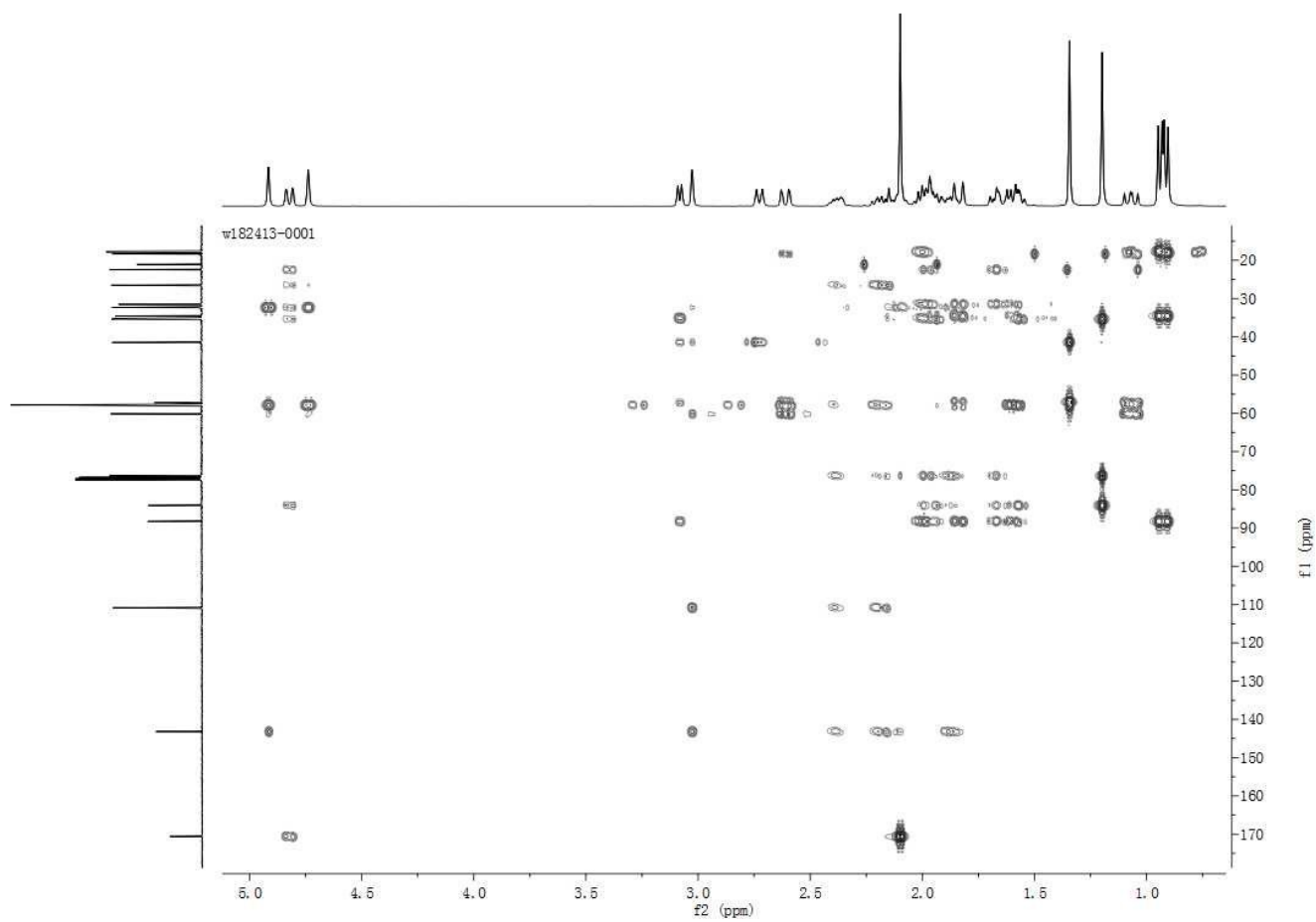


Figure S14. The HMBC Spectrum of Compound **2** in CDCl_3 (400 MHz for ^1H)

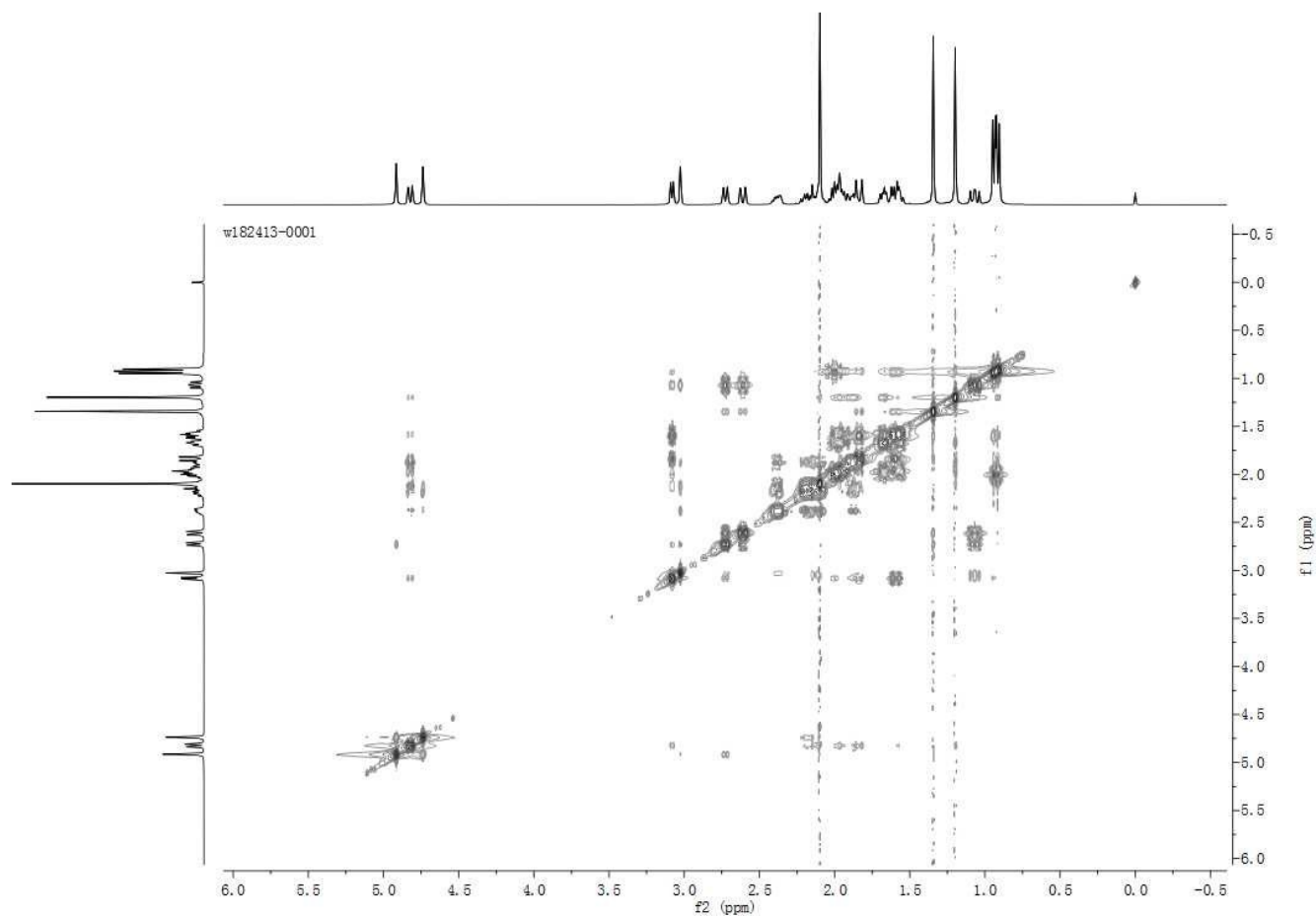


Figure S15. The NOESY Spectrum of Compound **2** in CDCl_3 (400 MHz)

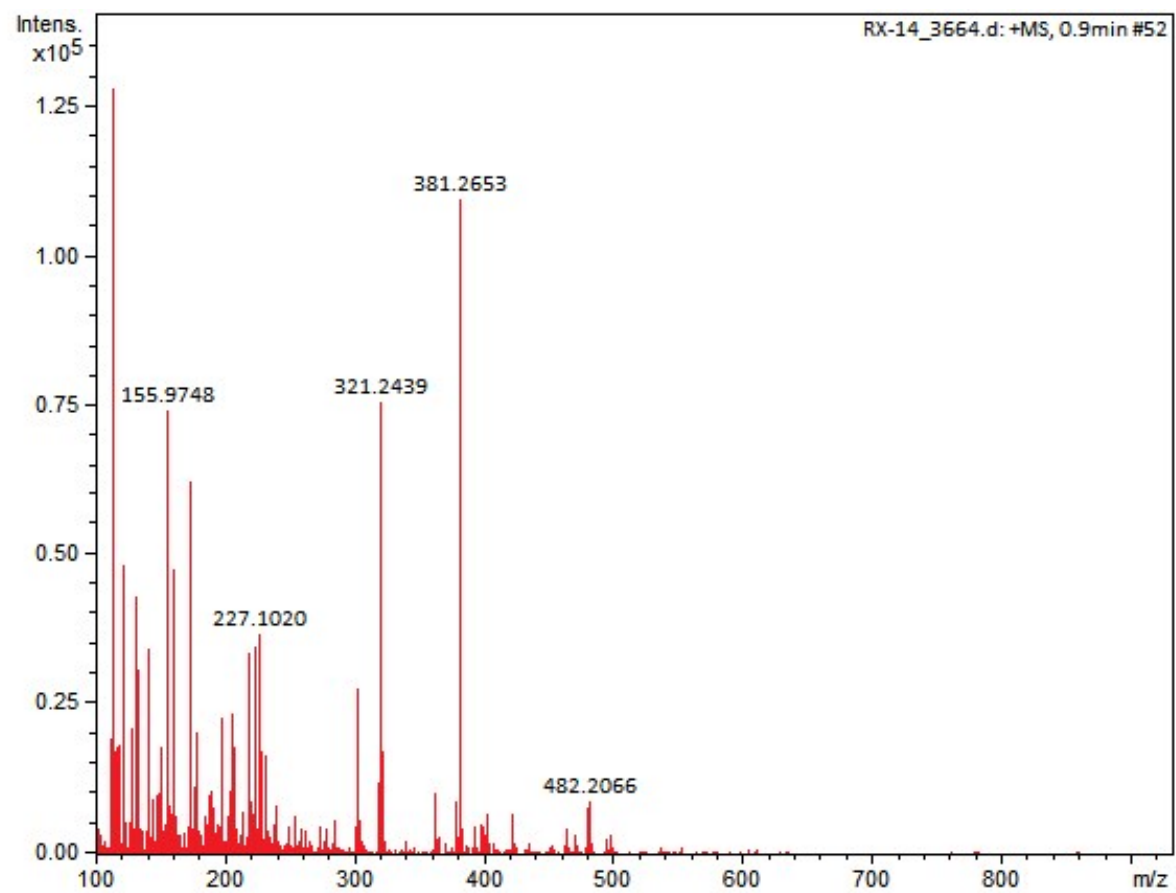


Figure S16. The HREIMS Spectroscopic Data of Compound **3**

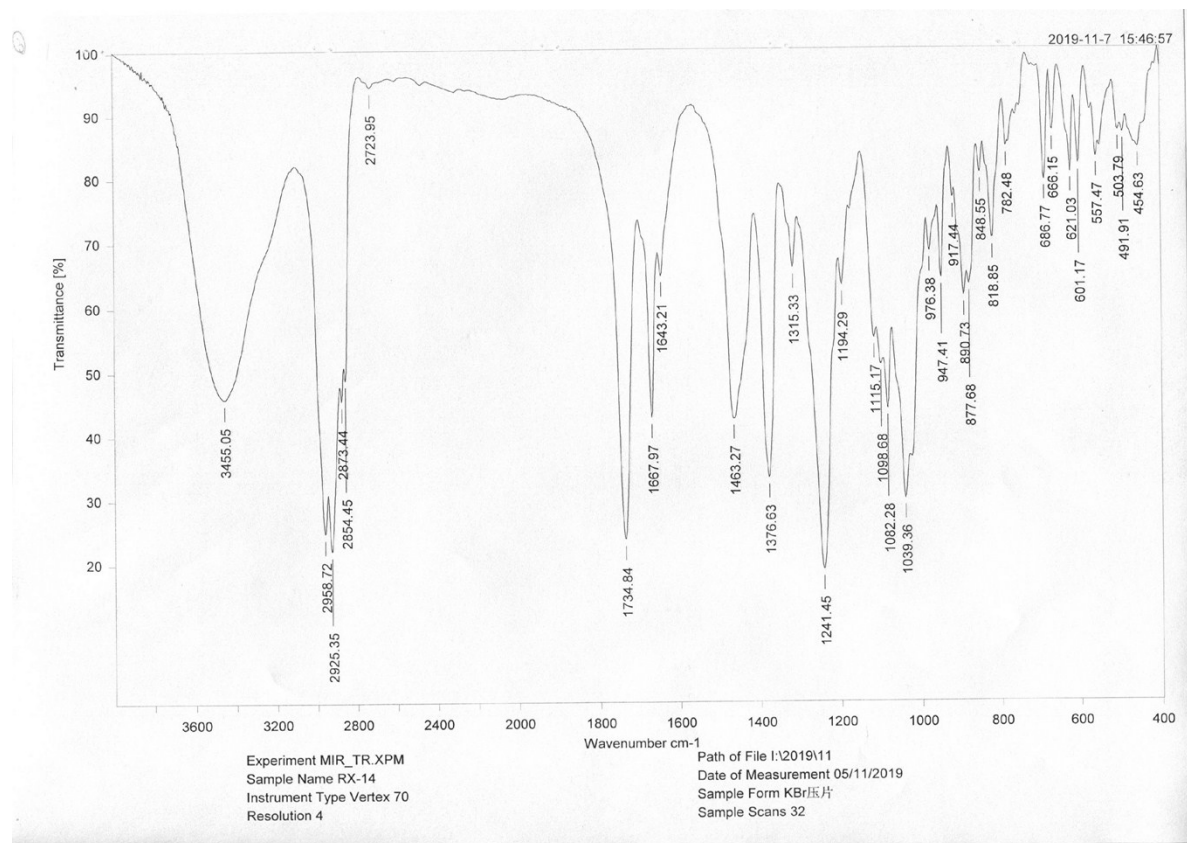


Figure S17. The IR Spectrum of Compound **3**

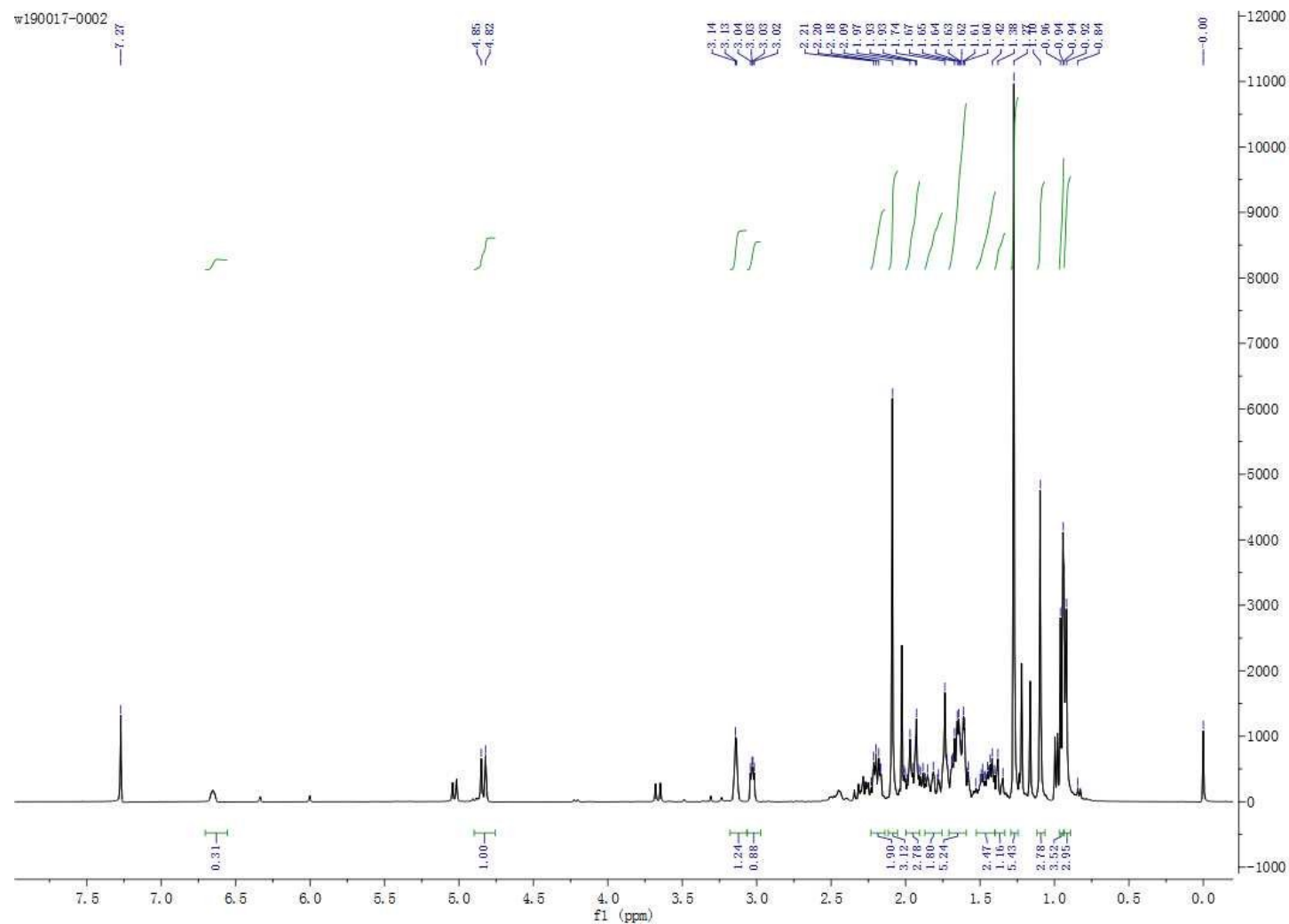


Figure S18. The ^1H NMR Spectrum of Compound **3** in CDCl_3 (400 MHz)

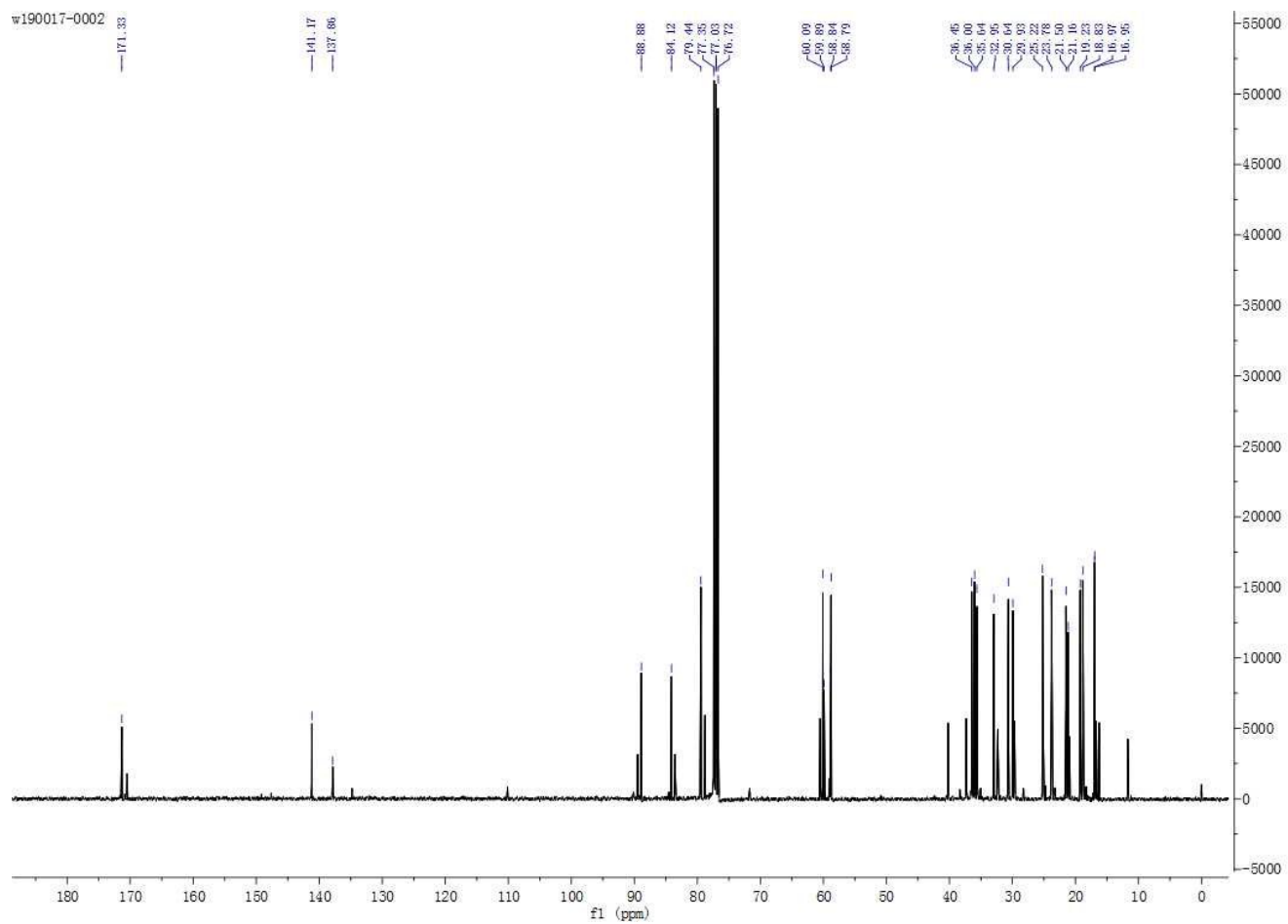


Figure S19. The ^{13}C NMR Spectrum of Compound **3** in CDCl_3 (100 MHz)

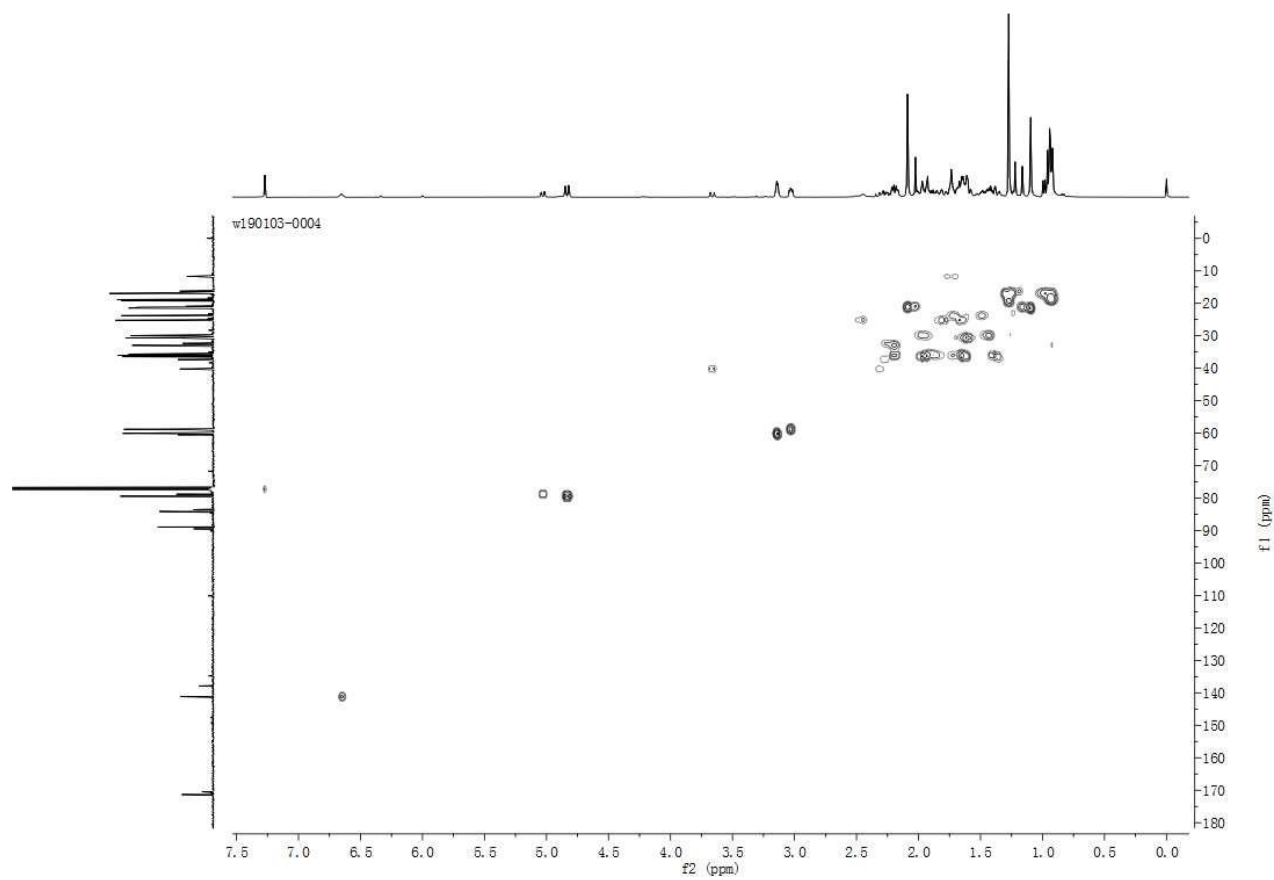


Figure S20. The HSQC Spectrum of Compound **3** in CDCl_3 (400 MHz for ^1H)

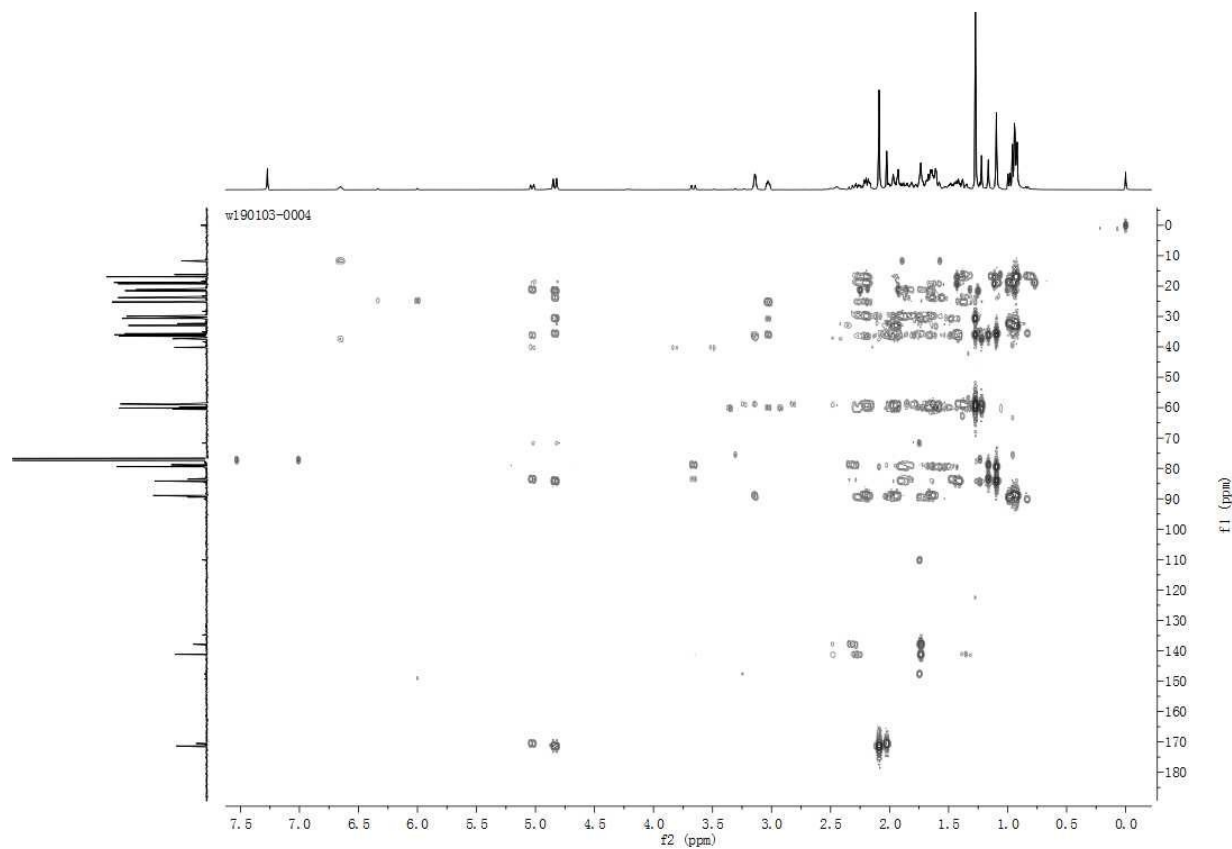


Figure S21. The HMBC Spectrum of Compound **3** in CDCl_3 (400 MHz for ^1H)

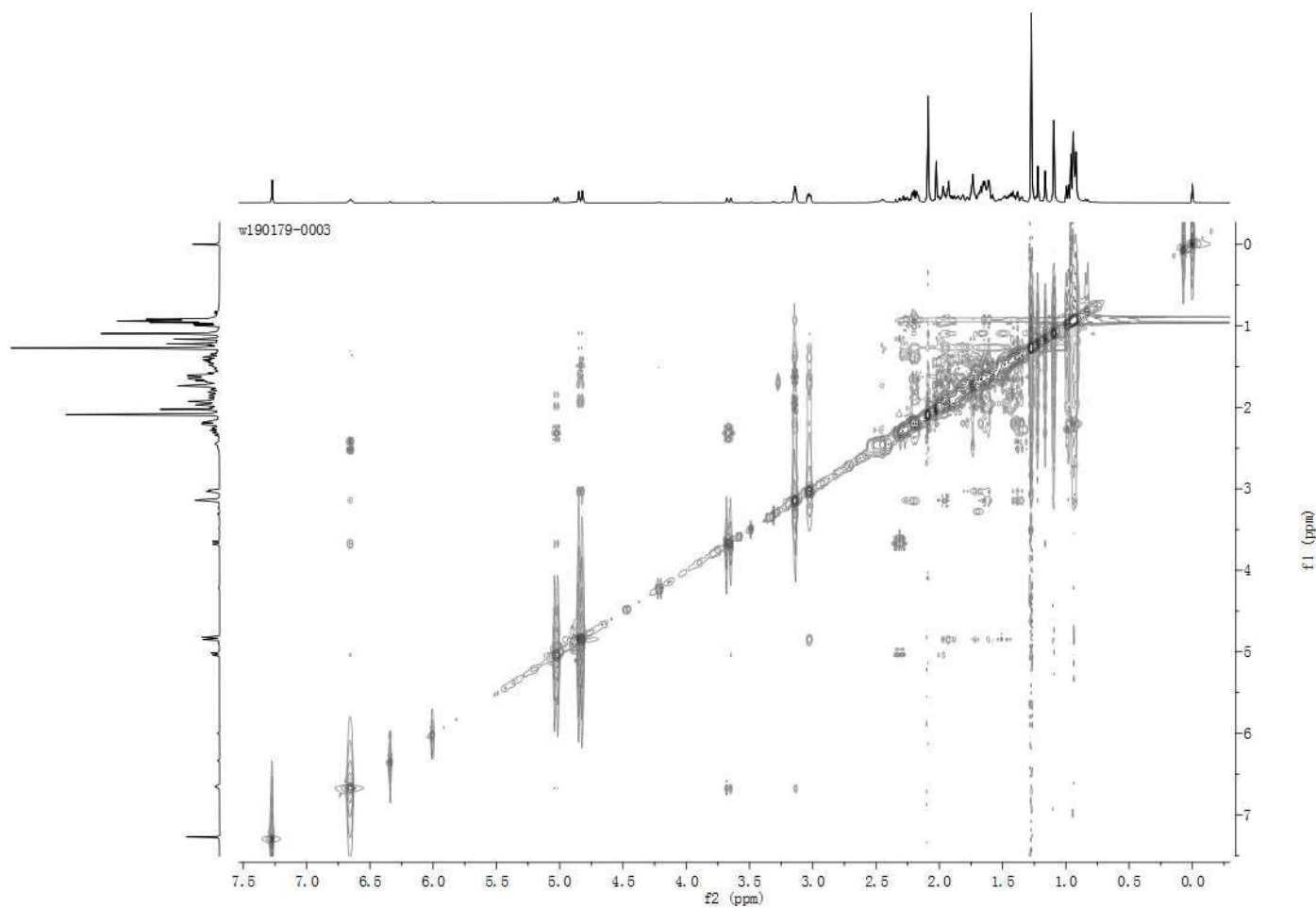


Figure S22. The NOESY Spectrum of Compound **3** in CDCl_3 (400 MHz)

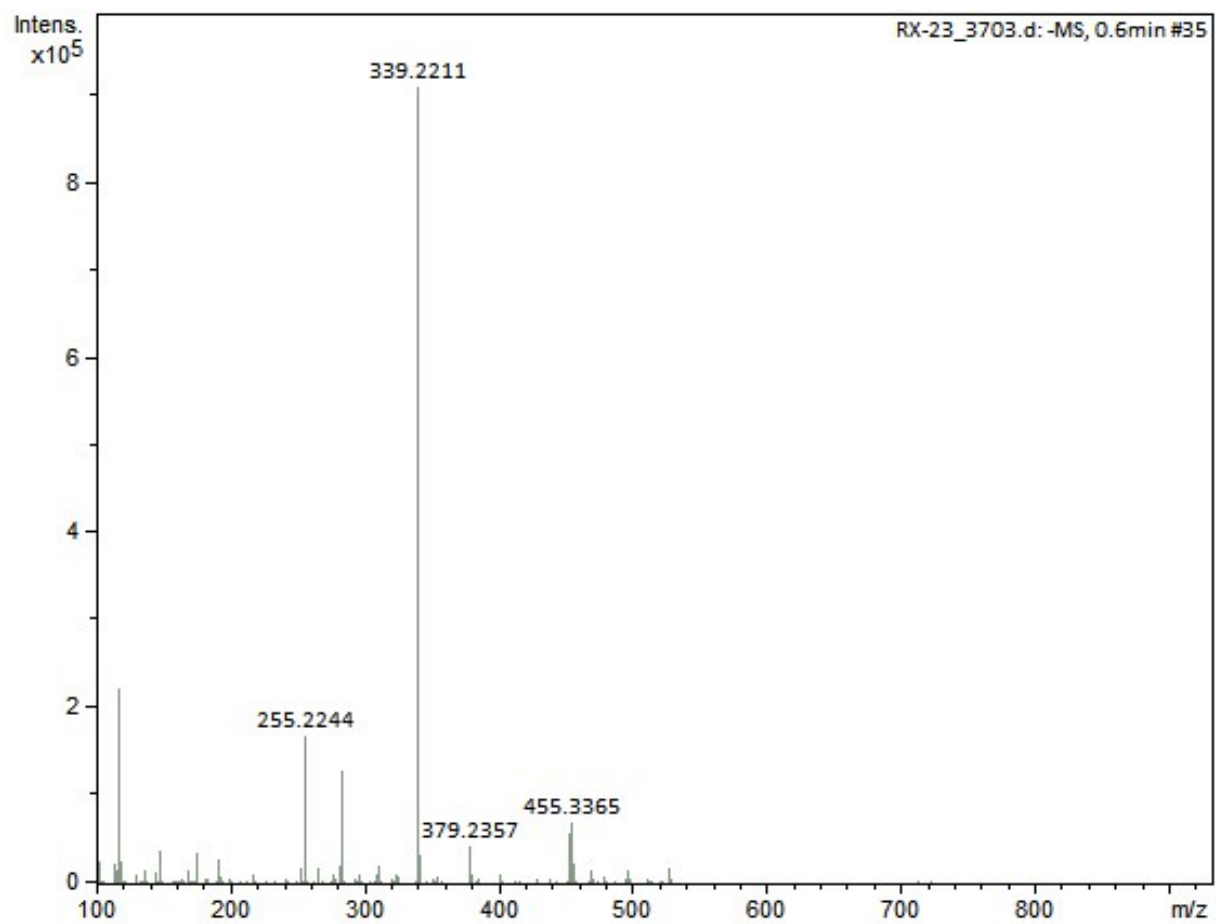


Figure S23. The HREIMS Spectroscopic Data of Compound 4

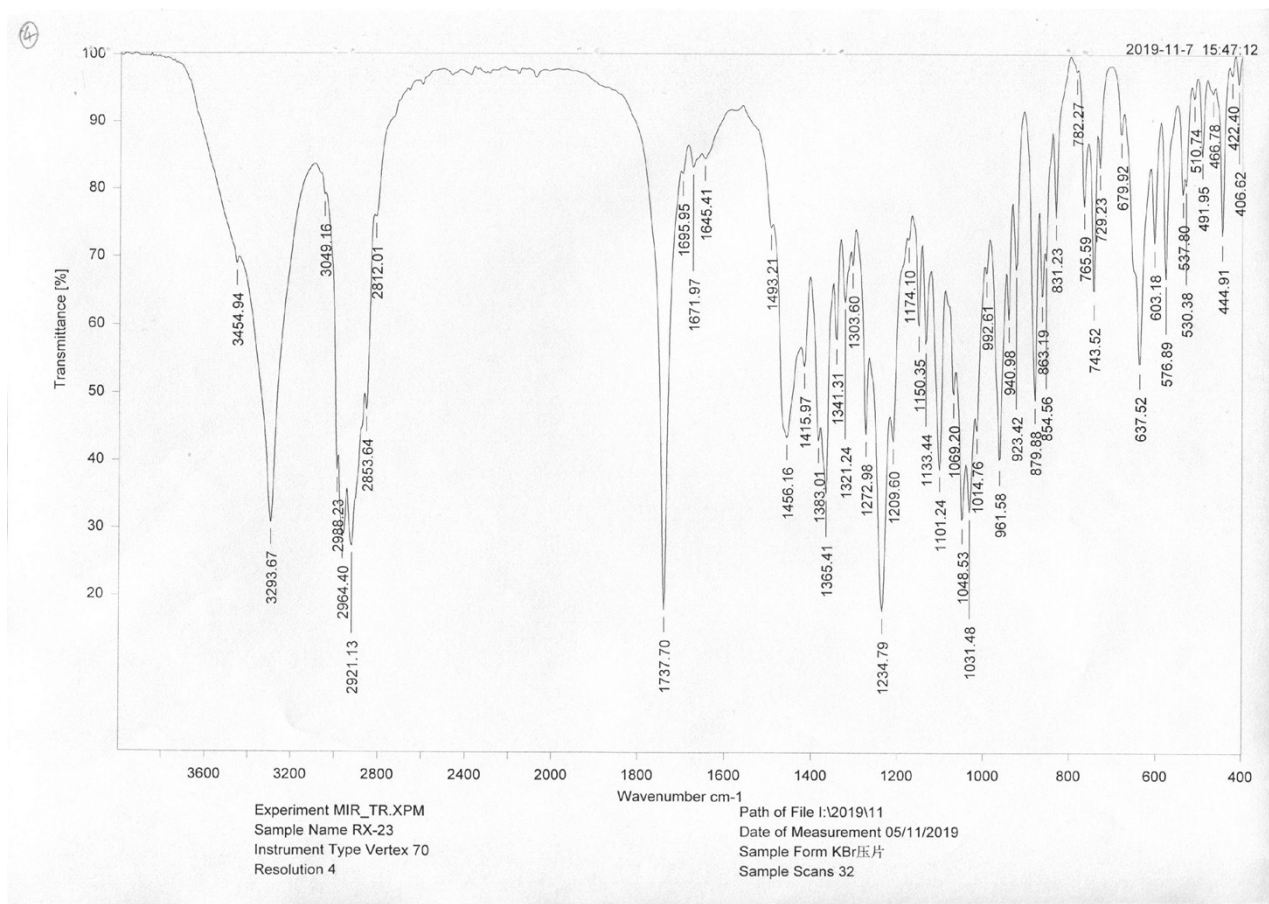


Figure S24. The IR Spectrum of Compound 4

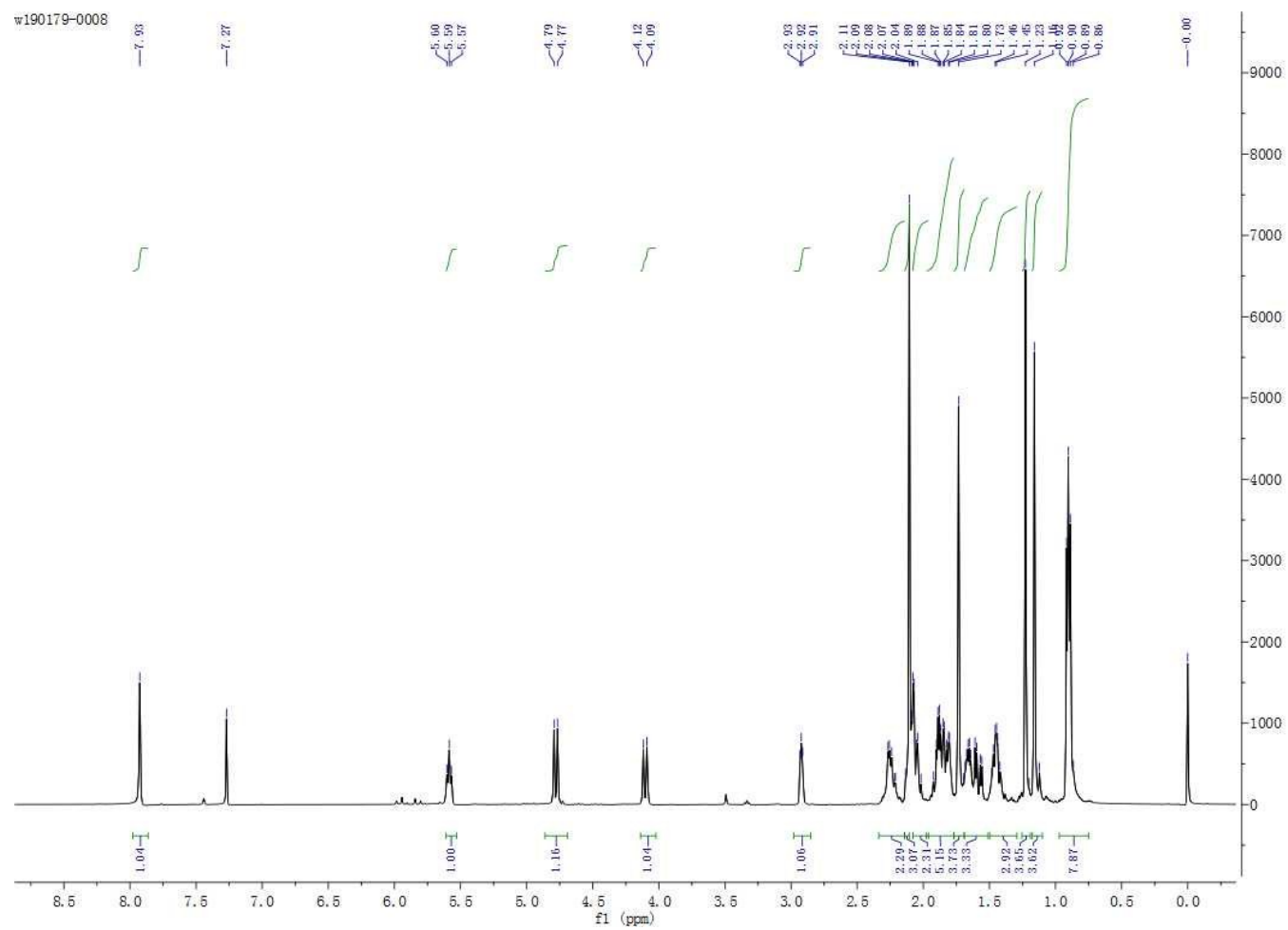


Figure S25. The ^1H NMR Spectrum of Compound **4** in CDCl_3 (400 MHz)

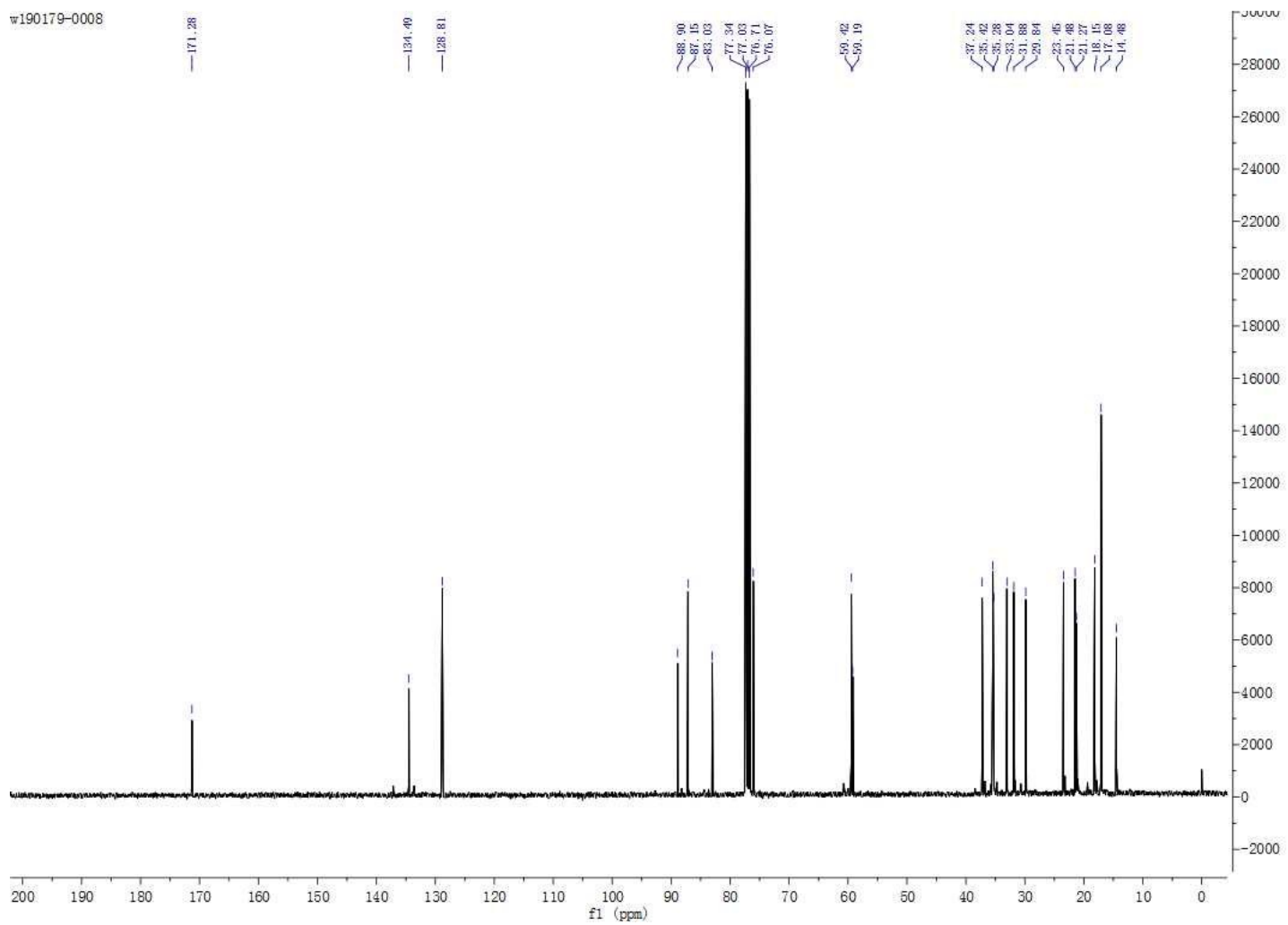


Figure S26. The ^{13}C NMR Spectrum of Compound **4** in CDCl_3 (100 MHz)

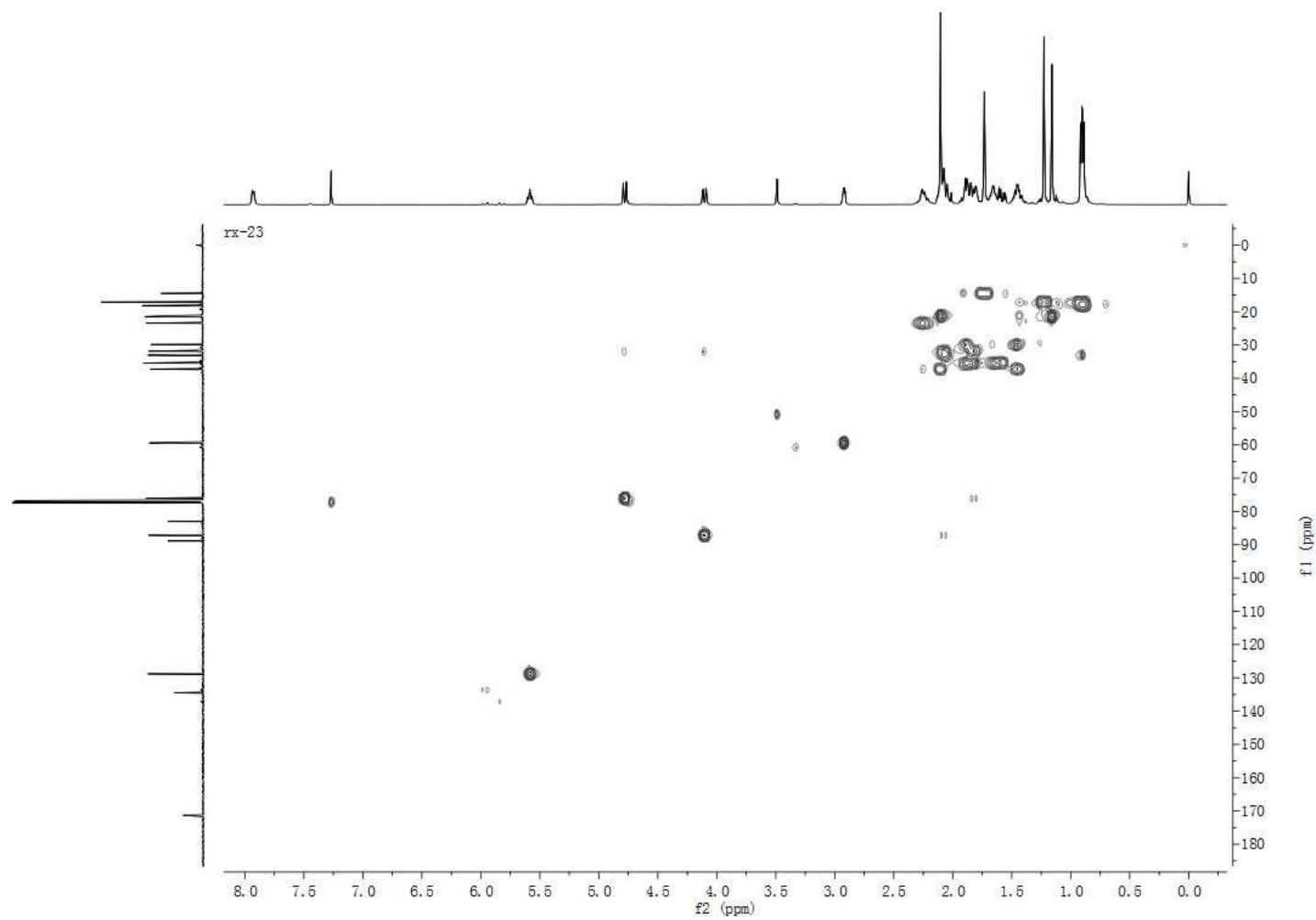


Figure S27. The HSQC Spectrum of Compound **4** in CDCl_3 (400 MHz for ^1H)

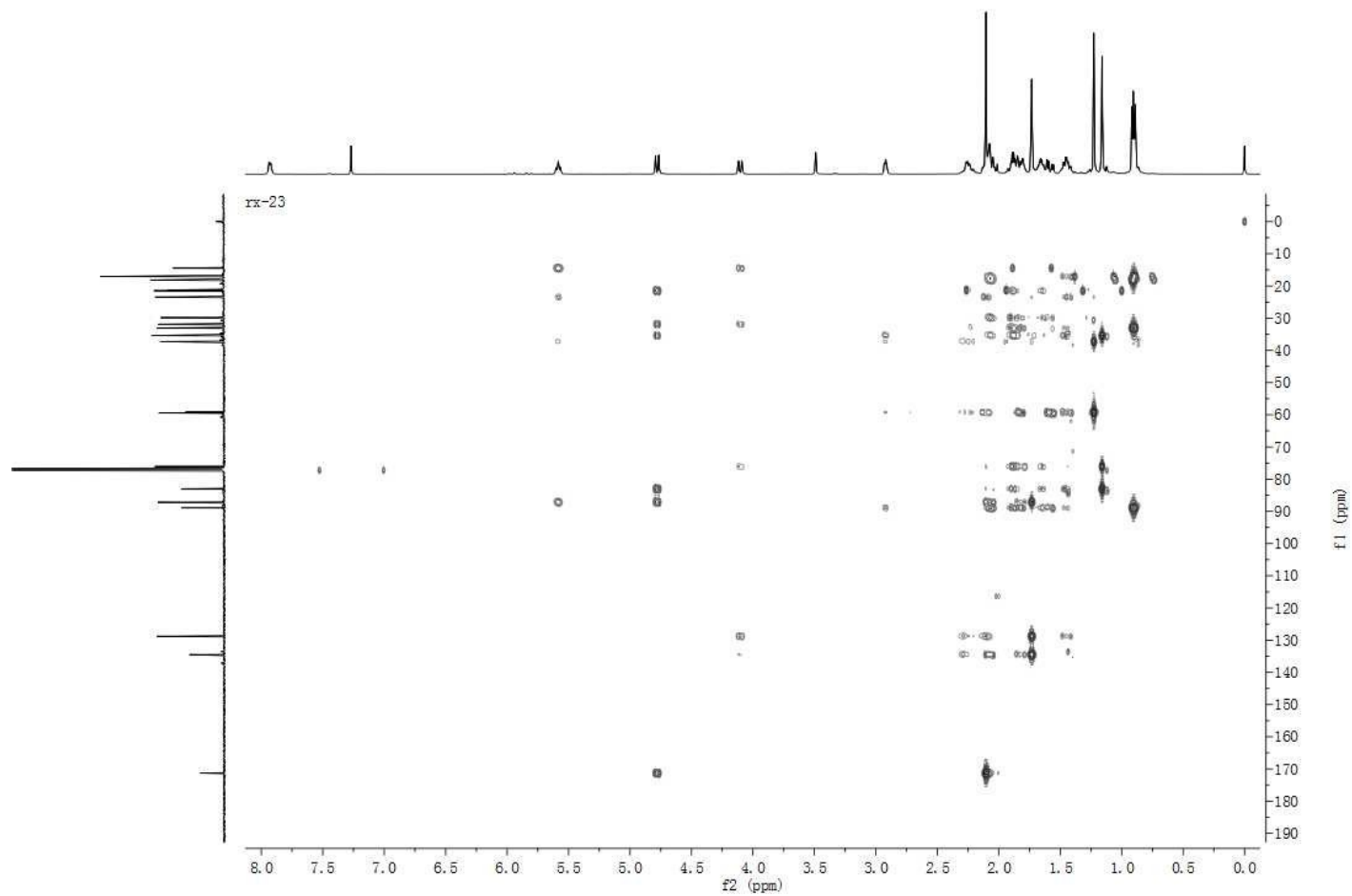


Figure S28. The HMBC Spectrum of Compound **4** in CDCl_3 (400 MHz for ^1H)

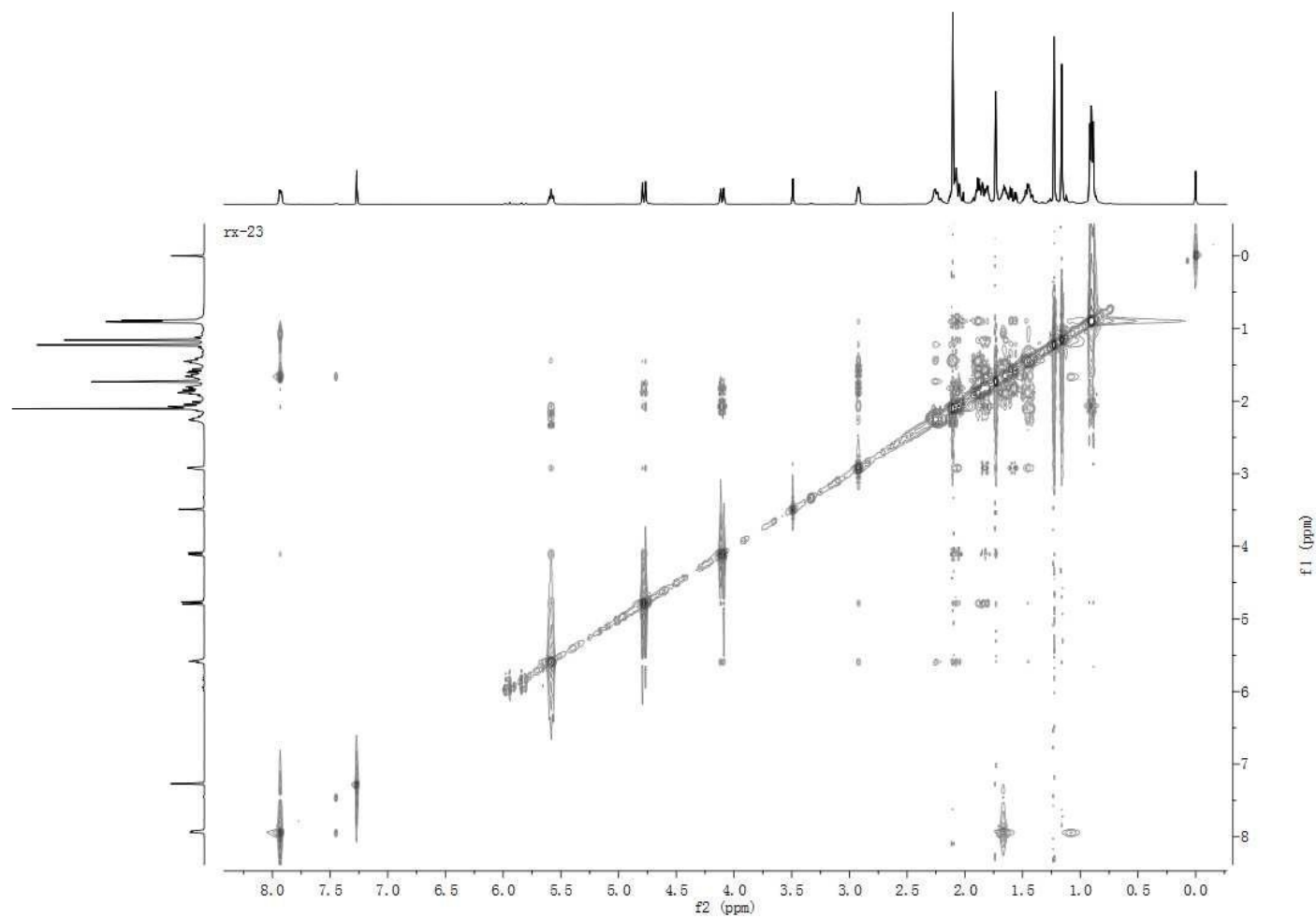


Figure S29. The NOESY Spectrum of Compound **4** in CDCl₃ (400 MHz)

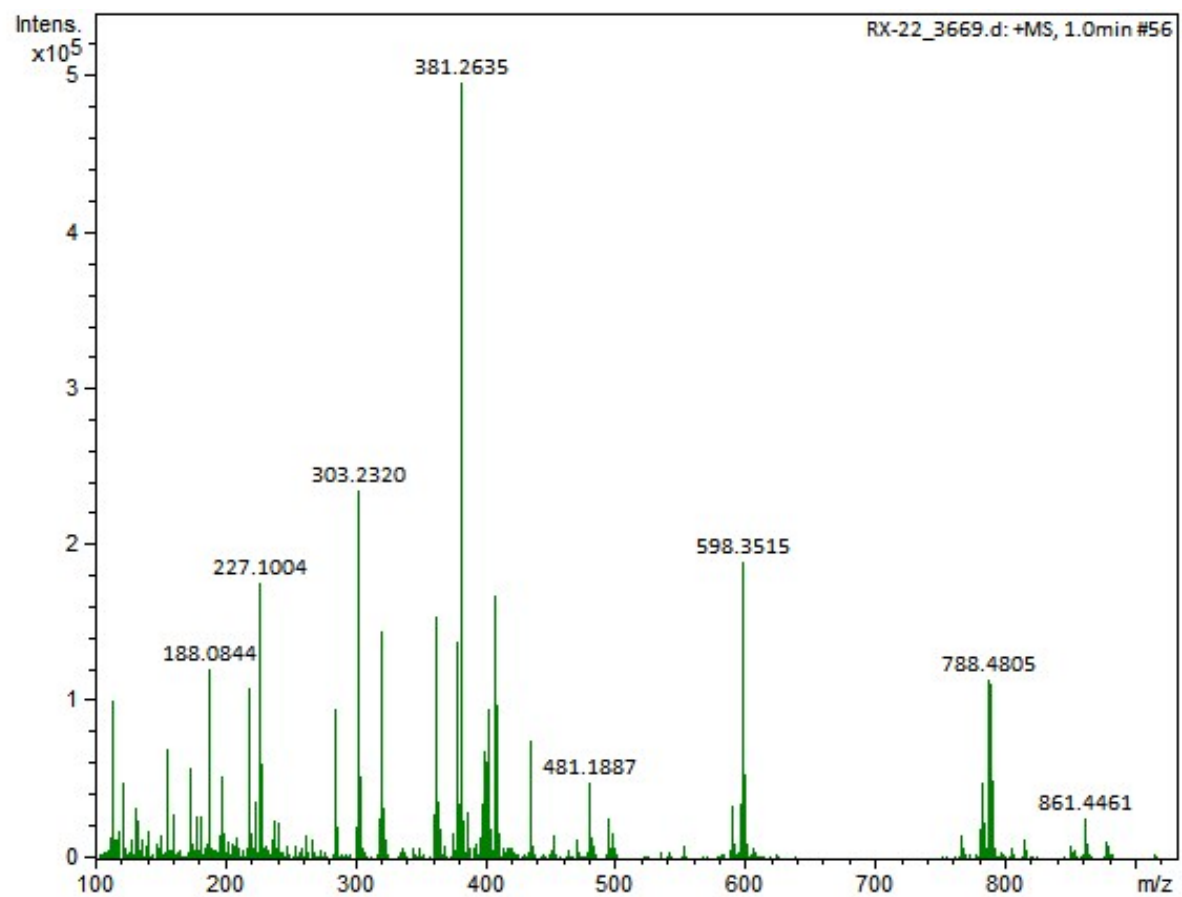


Figure S30. The HREIMS Spectroscopic Data of Compound **5**

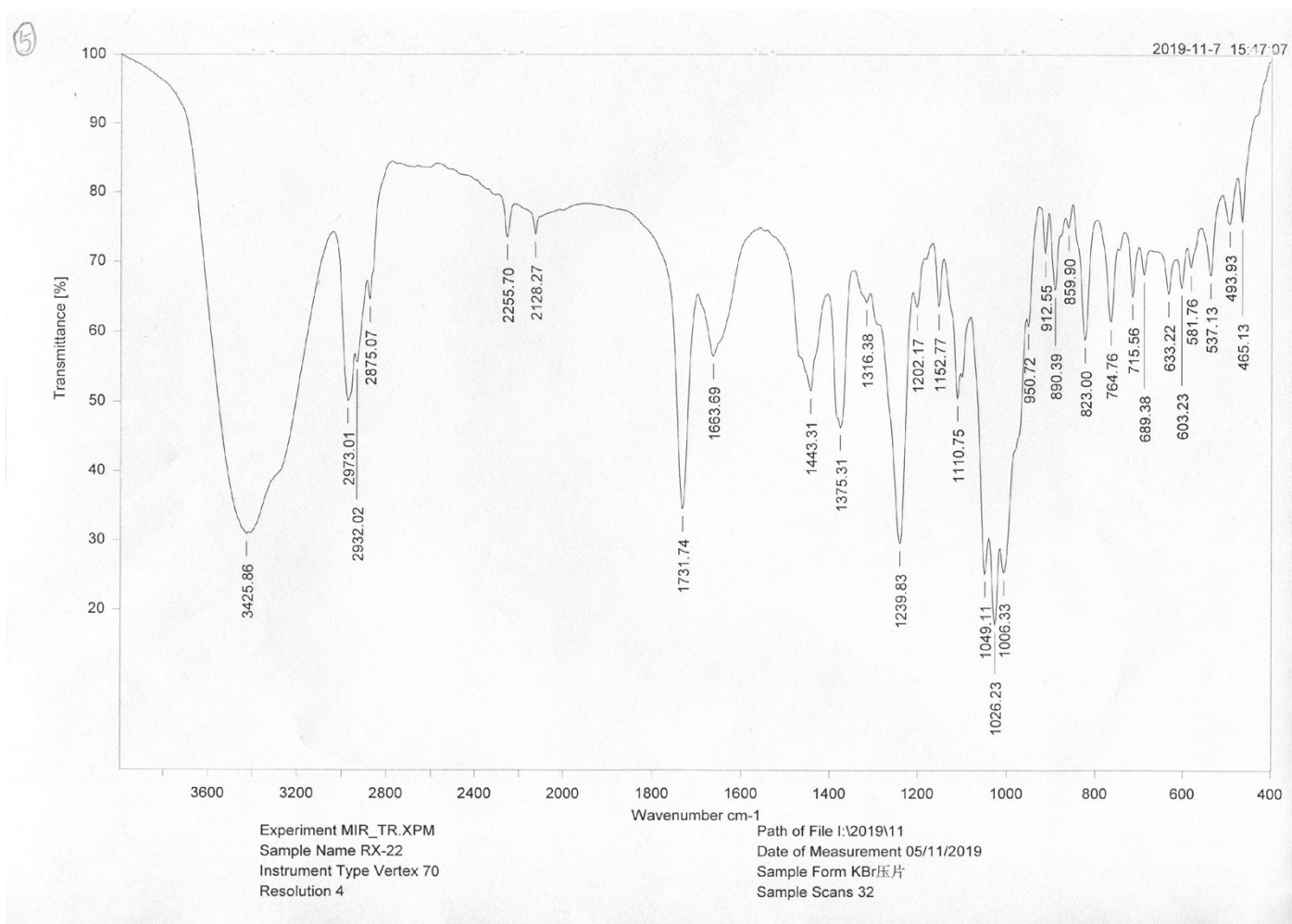


Figure S31. The IR Spectrum of Compound 5

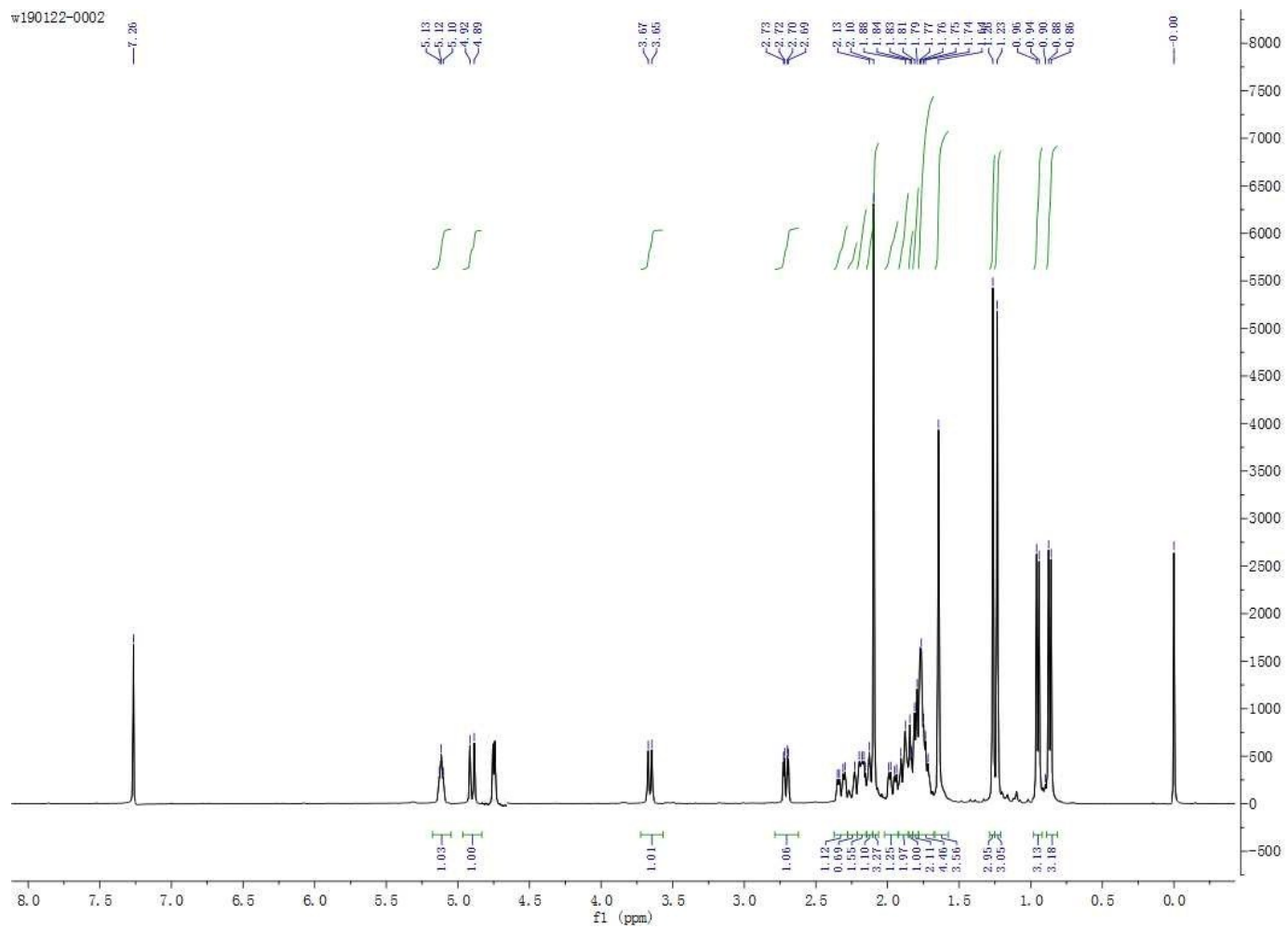


Figure S32. The ^1H NMR Spectrum of Compound **5** in CDCl_3 (400 MHz)

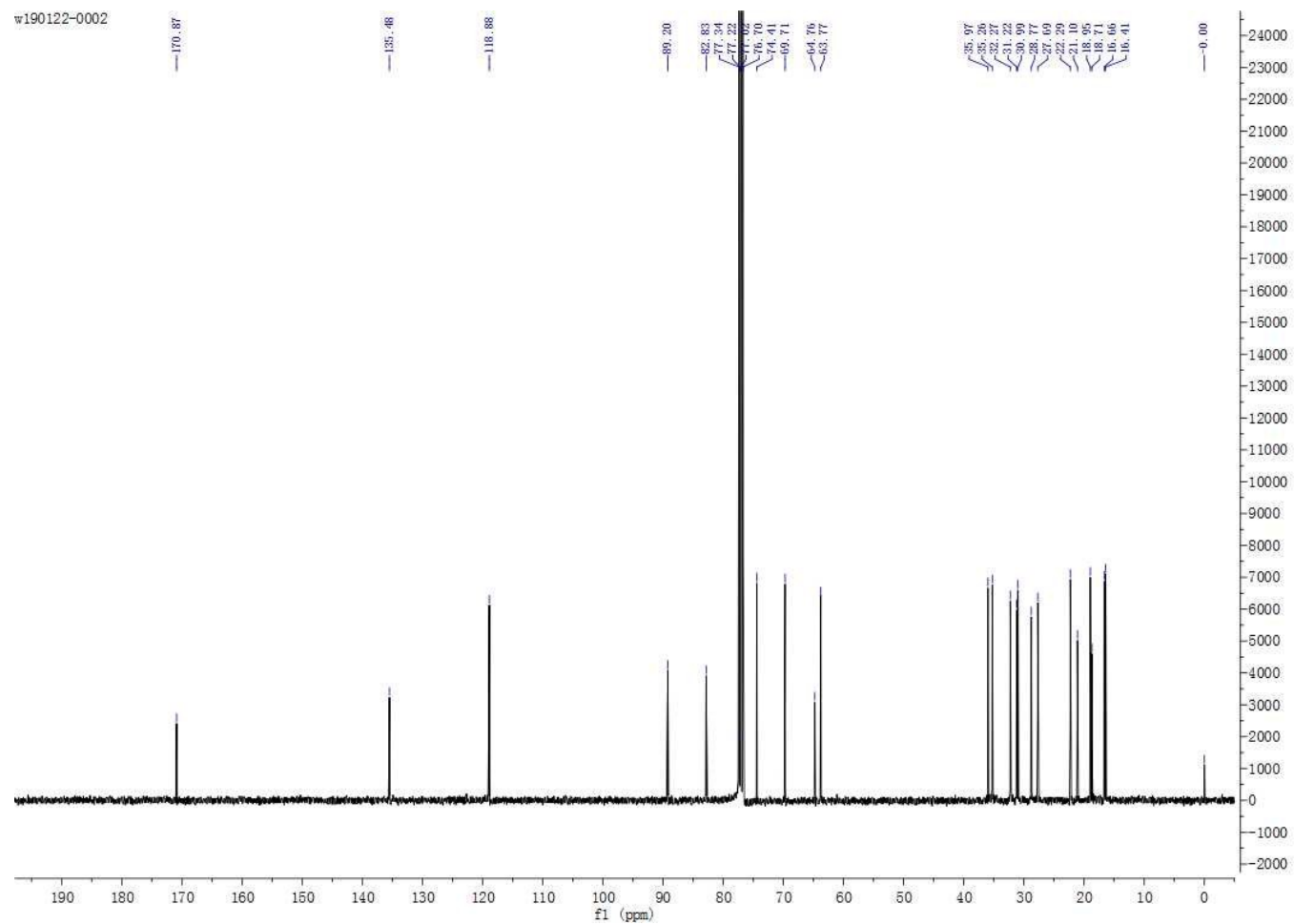


Figure S33. The ^{13}C NMR Spectrum of Compound **5** in CDCl_3 (100 MHz)

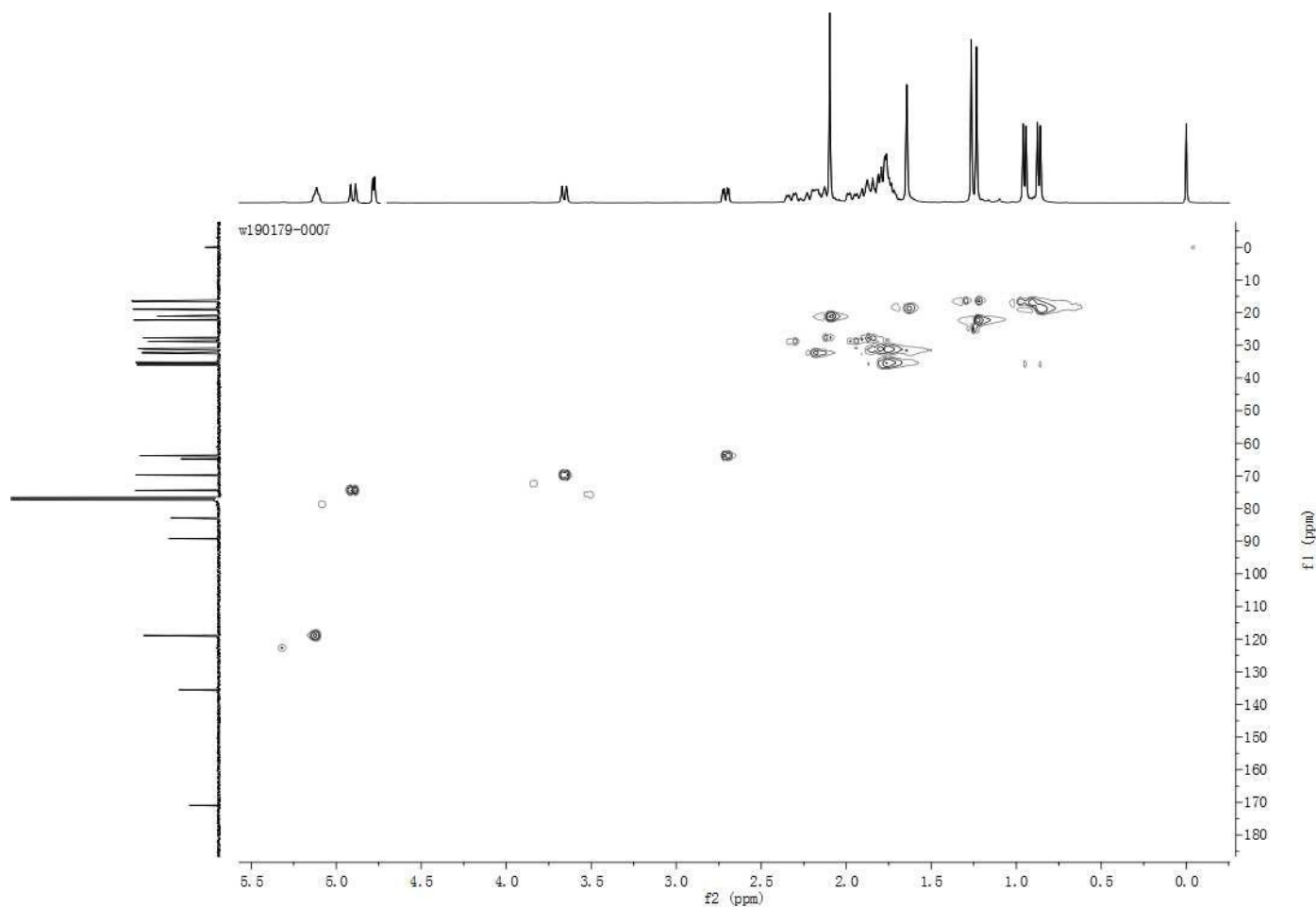


Figure S34. The HSQC Spectrum of Compound **5** in CDCl_3 (400 MHz for ^1H)

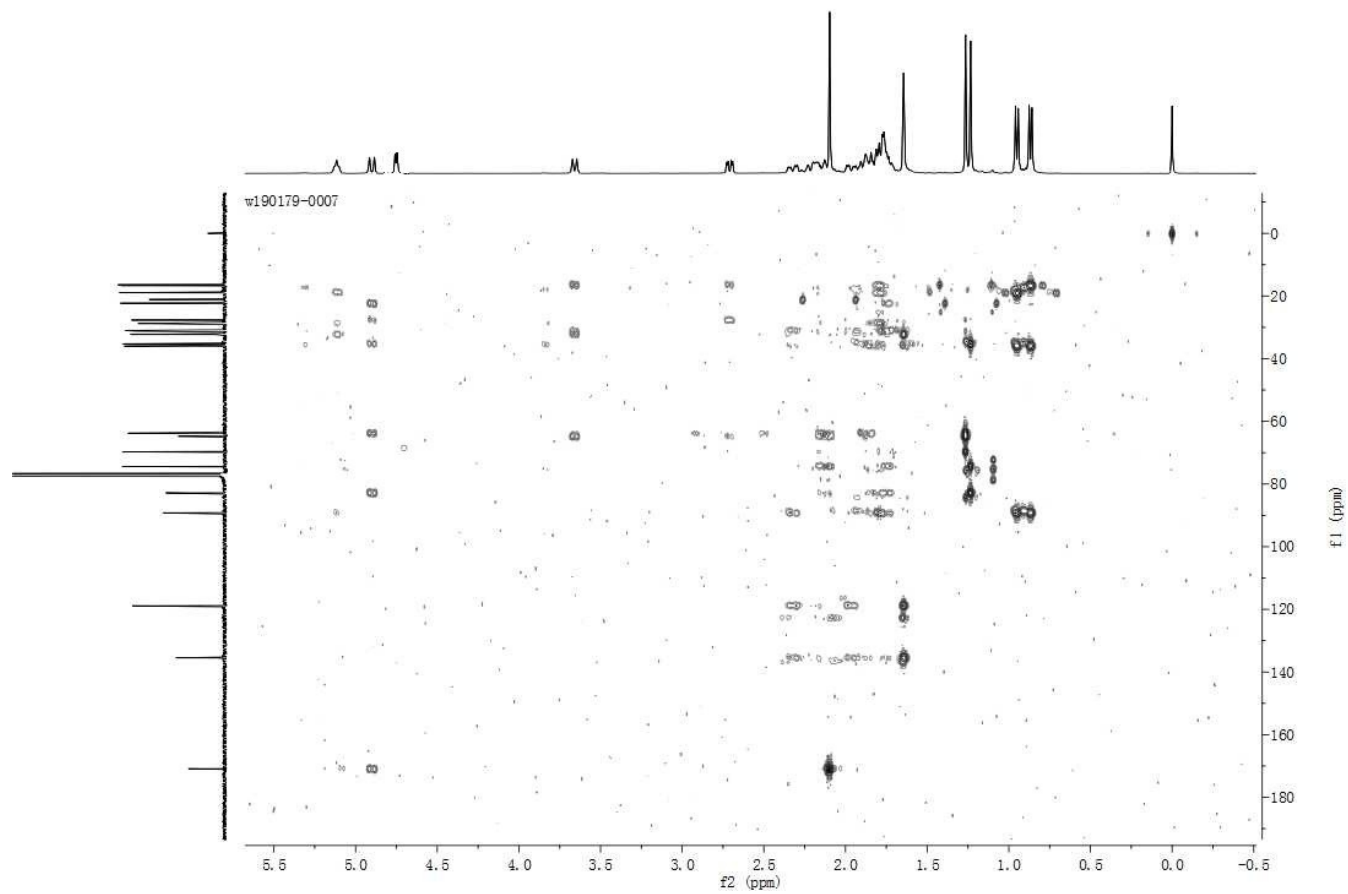


Figure S35. The HMBC Spectrum of Compound **5** in CDCl_3 (400 MHz for ^1H)

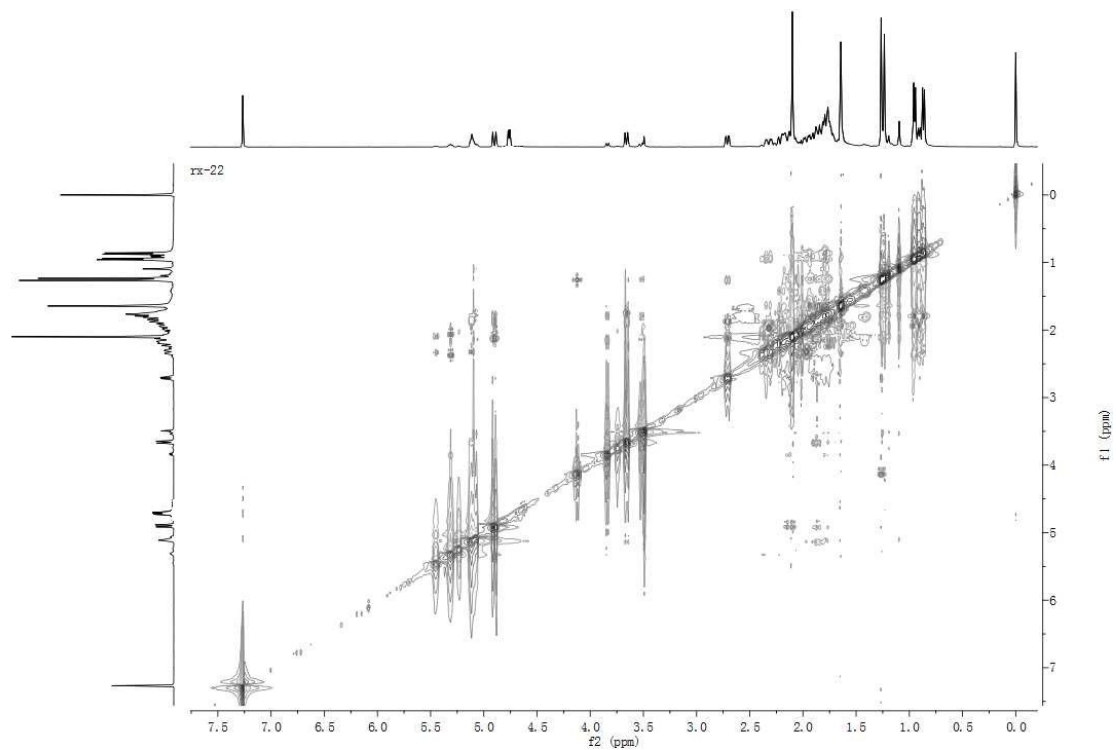


Figure S36. The NOESY Spectrum of Compound **5** in CDCl_3 (400 MHz)

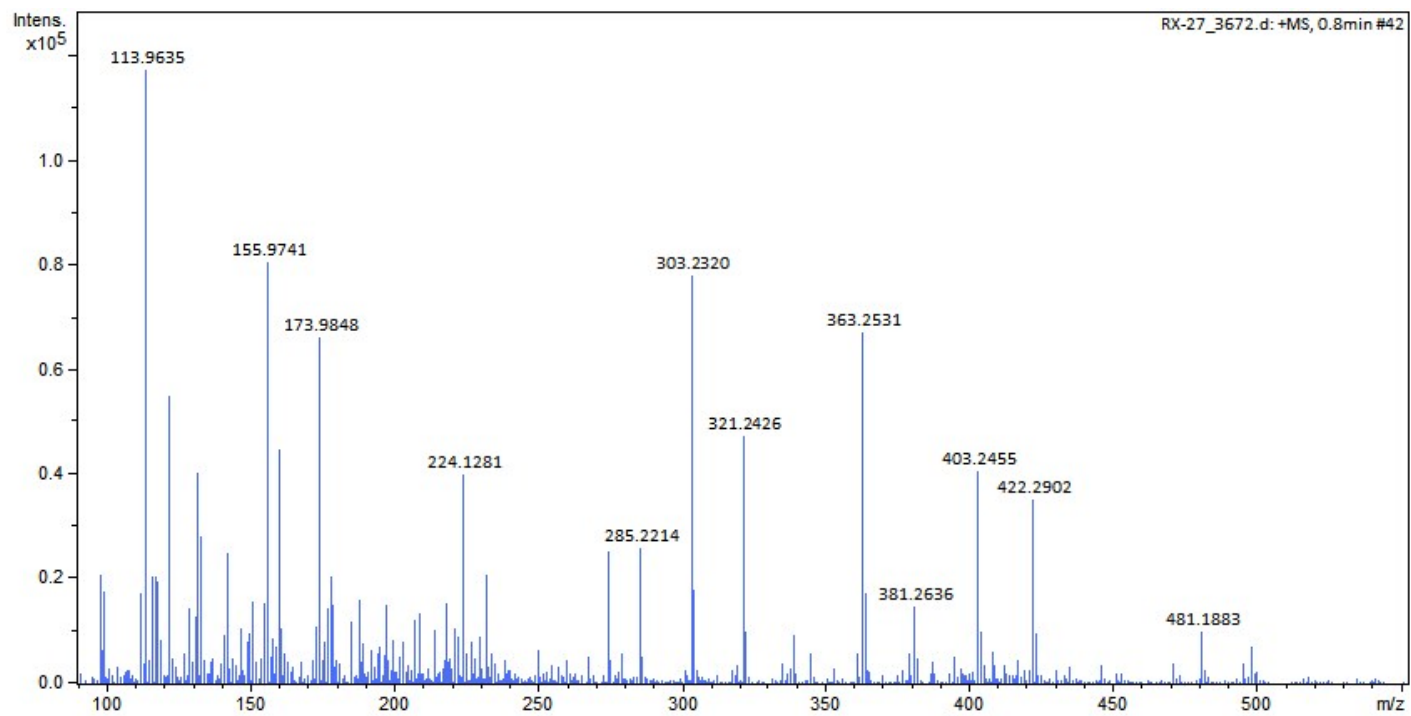


Figure S37. The HREIMS Spectroscopic Data of Compound 6

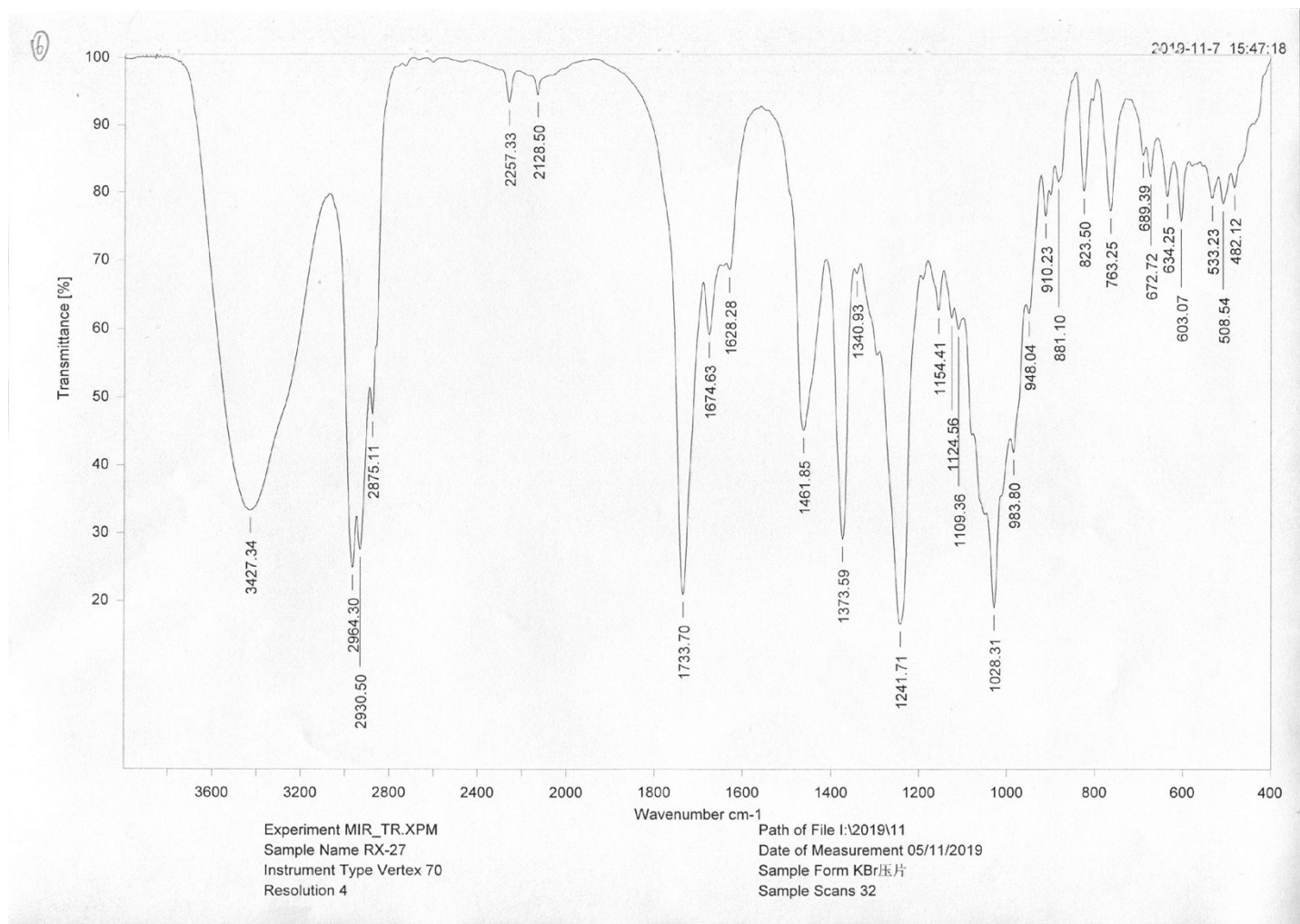


Figure S38. The IR Spectrum of Compound **6**

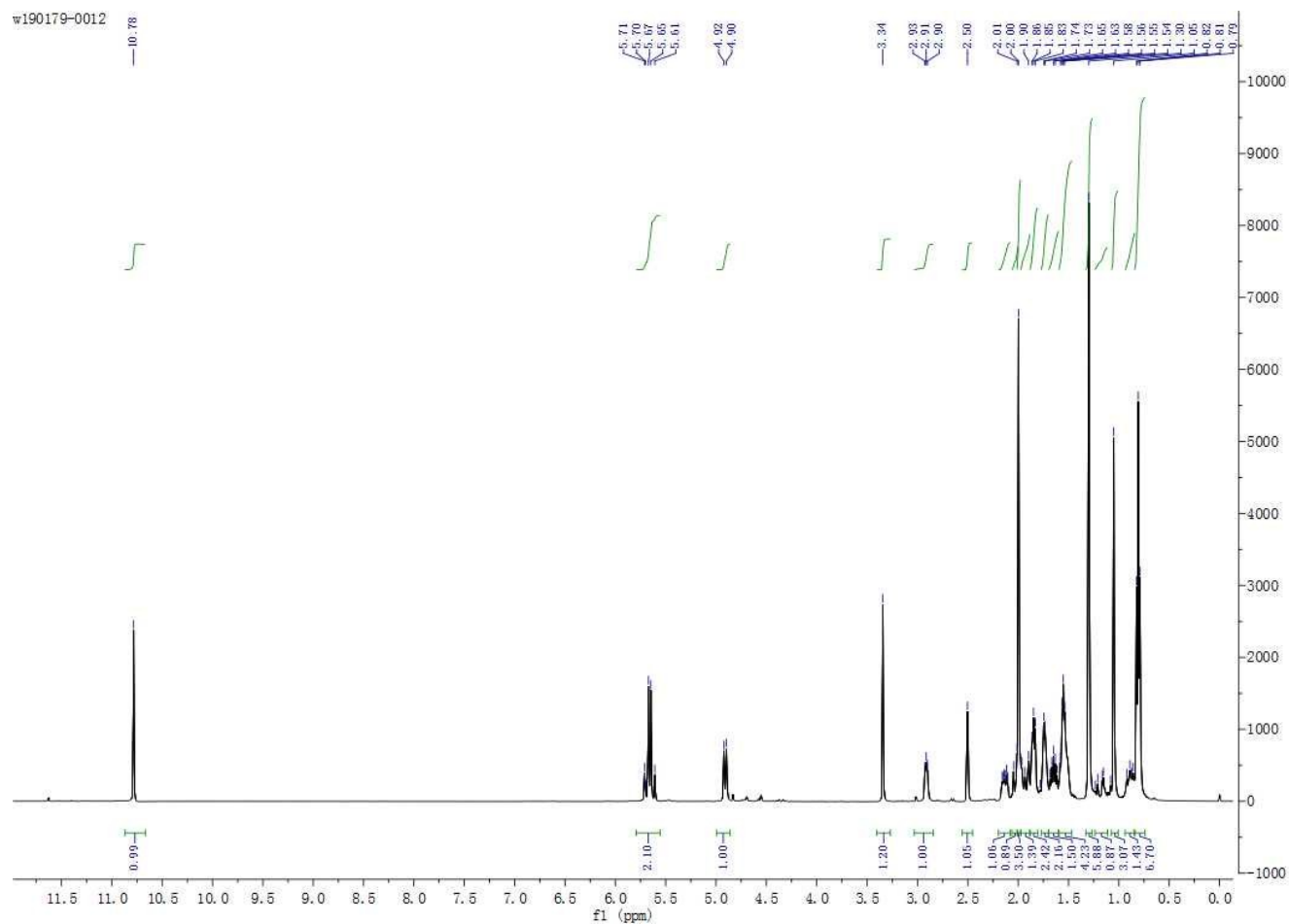


Figure S39. The ^1H NMR Spectrum of Compound **6** in $\text{DMSO-}d_6$ (400 MHz)

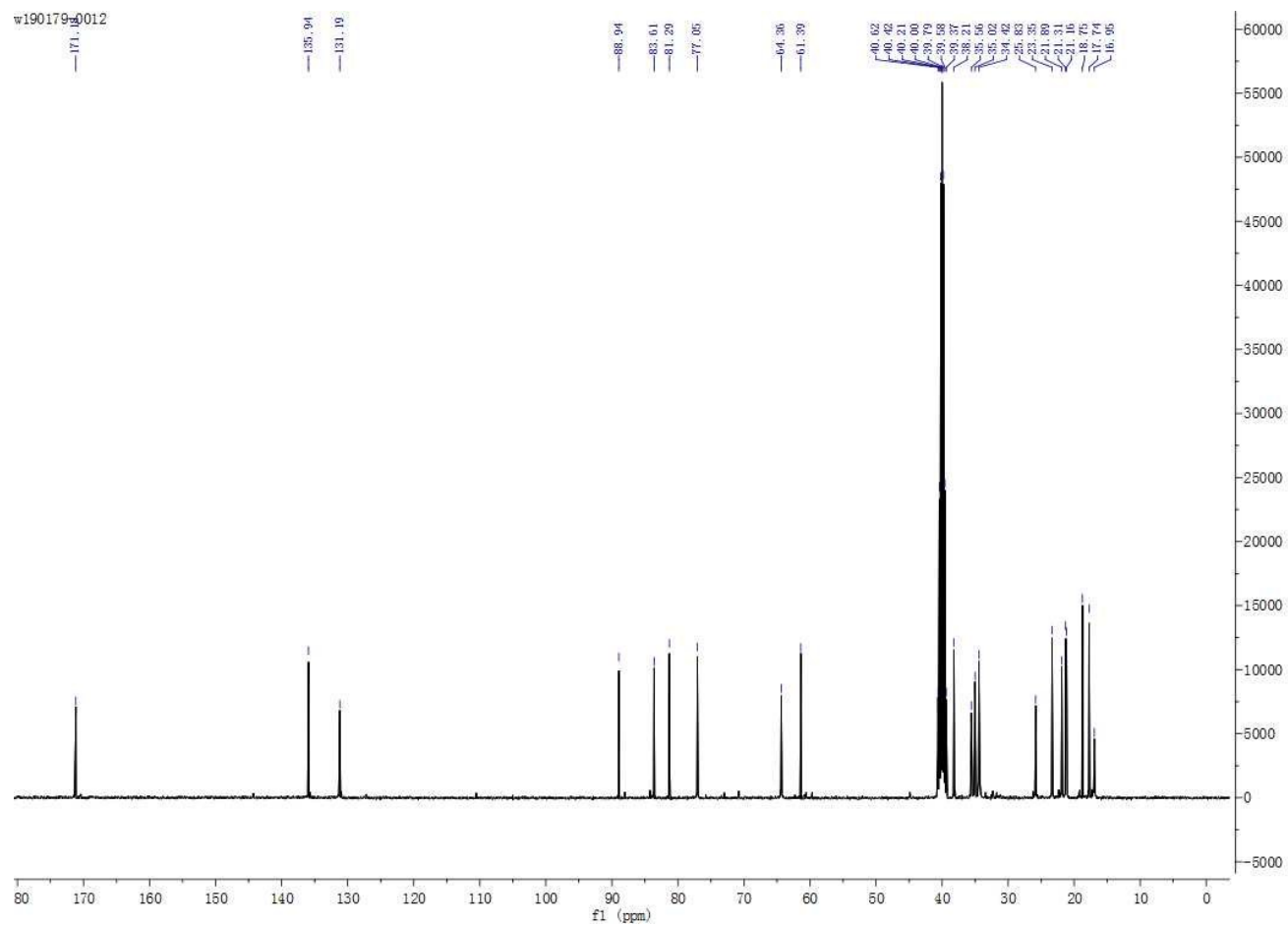


Figure S40. The ^{13}C NMR Spectrum of Compound **6** in $\text{DMSO-}d_6$ (100 MHz)

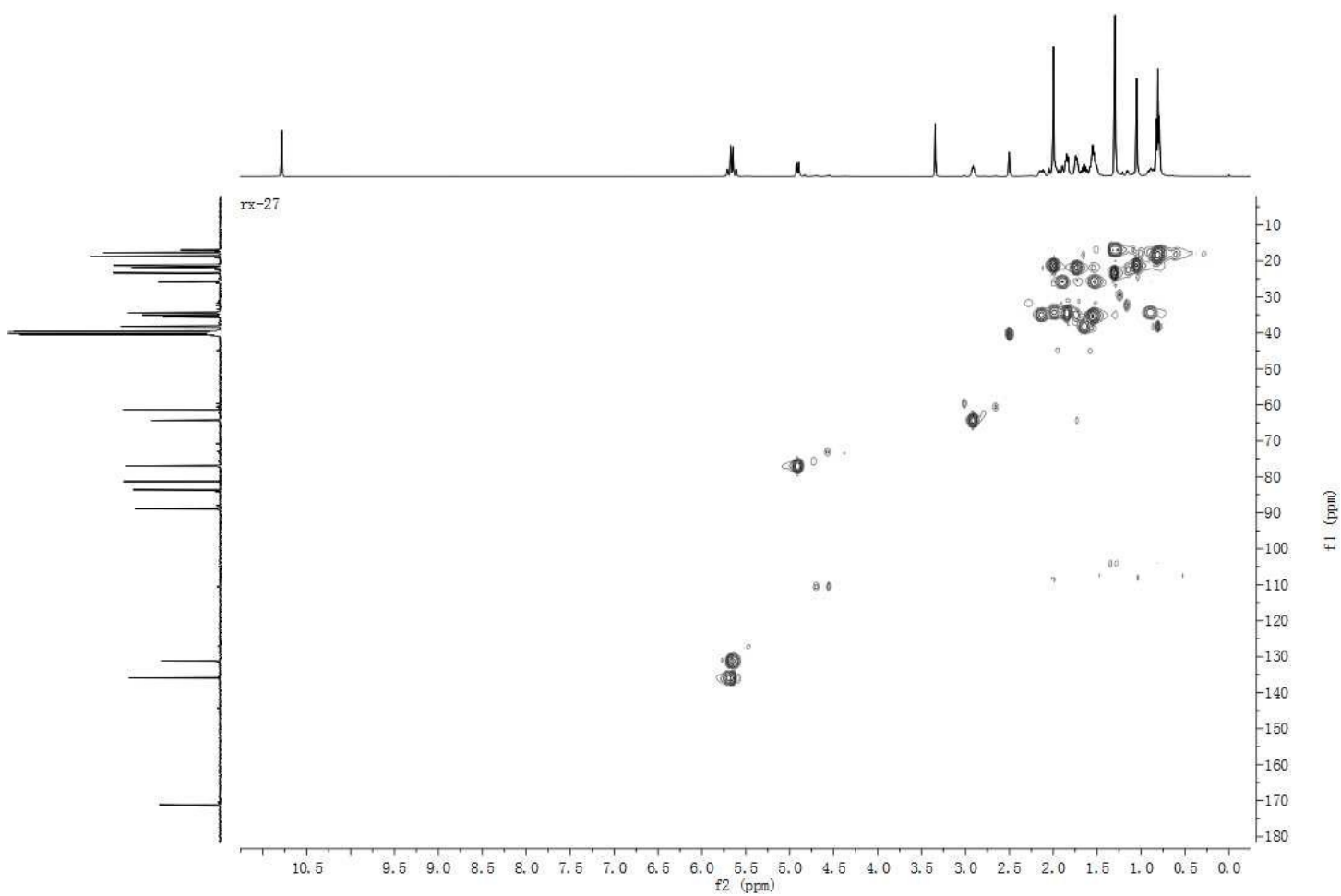


Figure S41. The HSQC Spectrum of Compound **6** in DMSO- d_6 (400 MHz for ^1H)

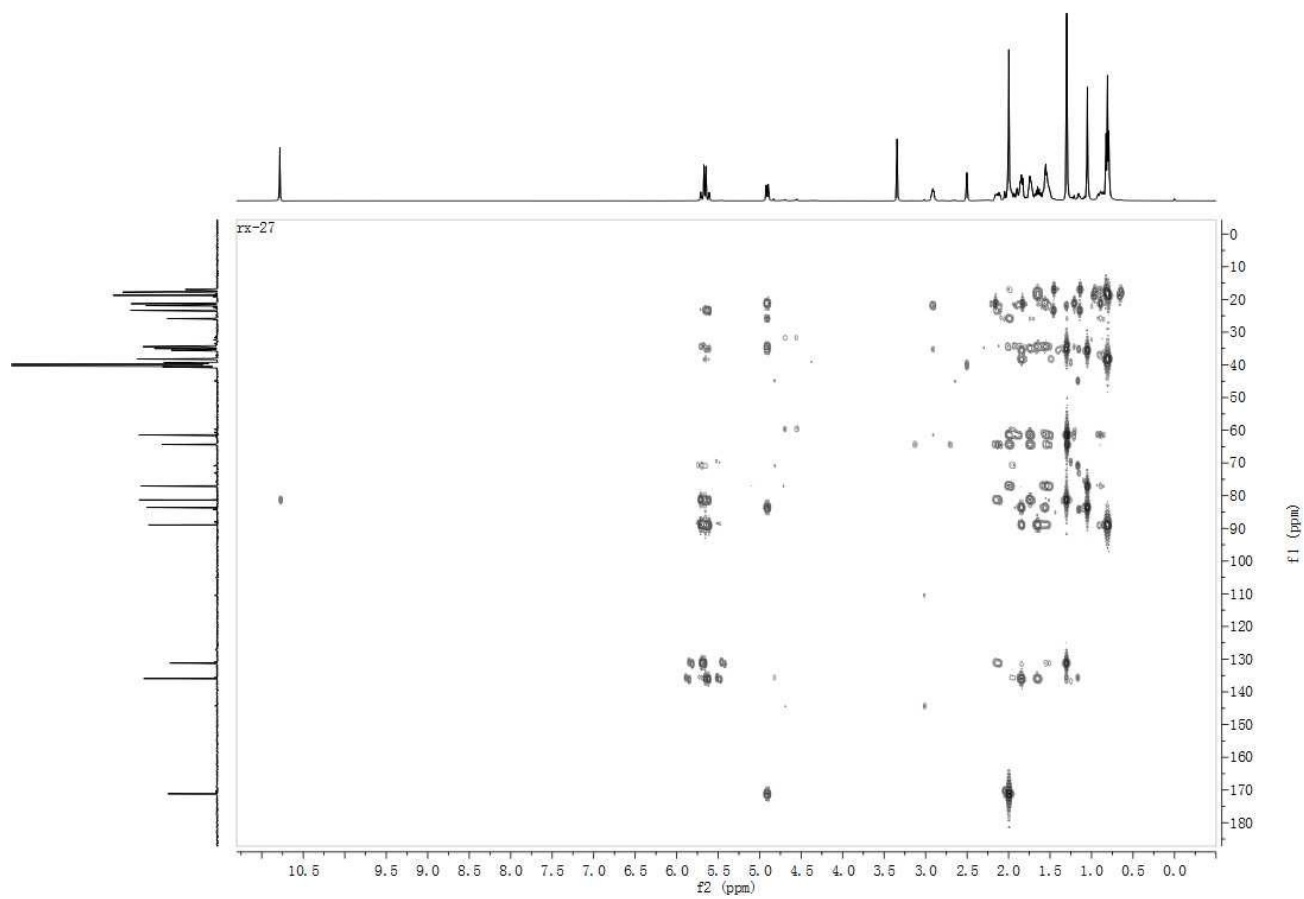


Figure S42. The HMBC Spectrum of Compound **6** in $\text{DMSO-}d_6$ (400 MHz for ^1H)

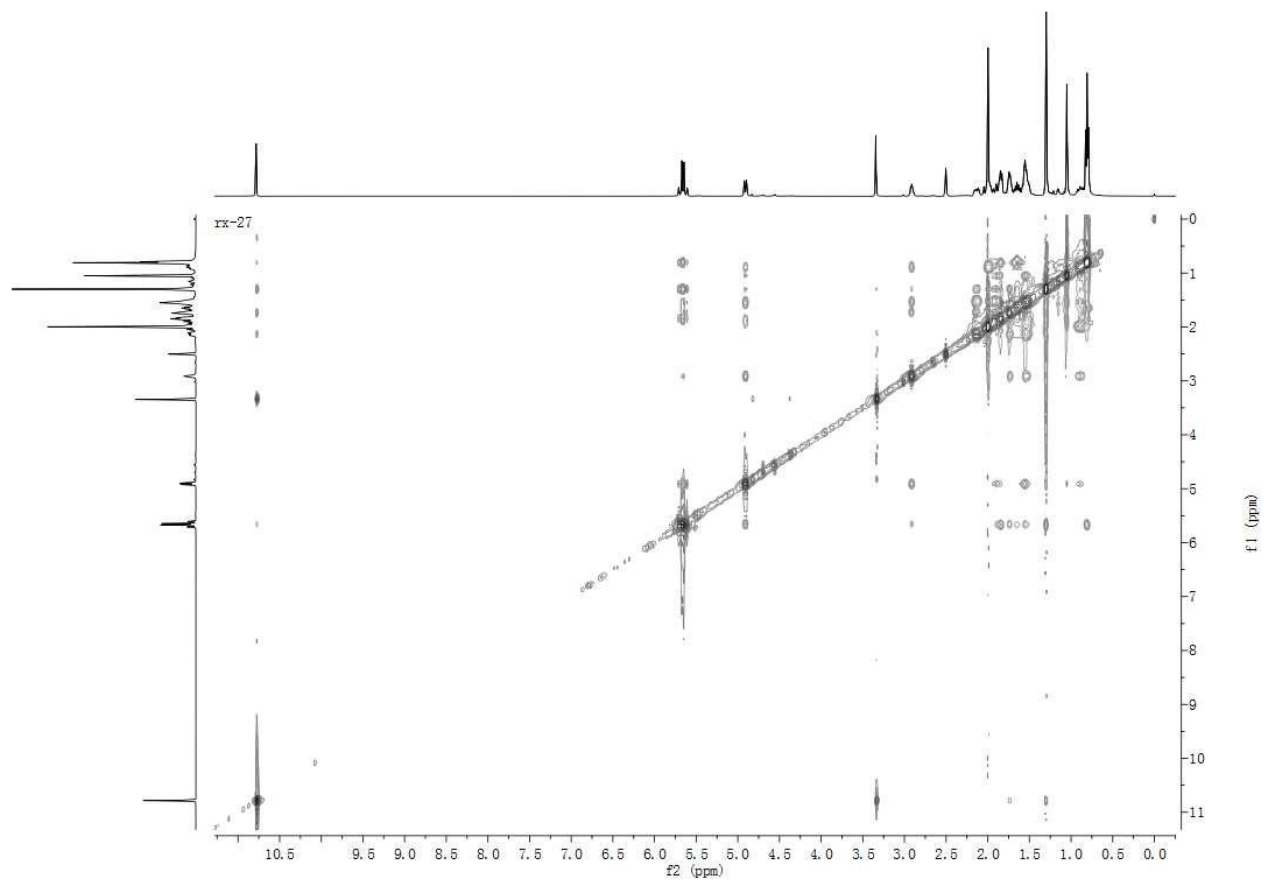


Figure S43. The NOESY Spectrum of Compound **6** in DMSO-*d*₆ (400 MHz)

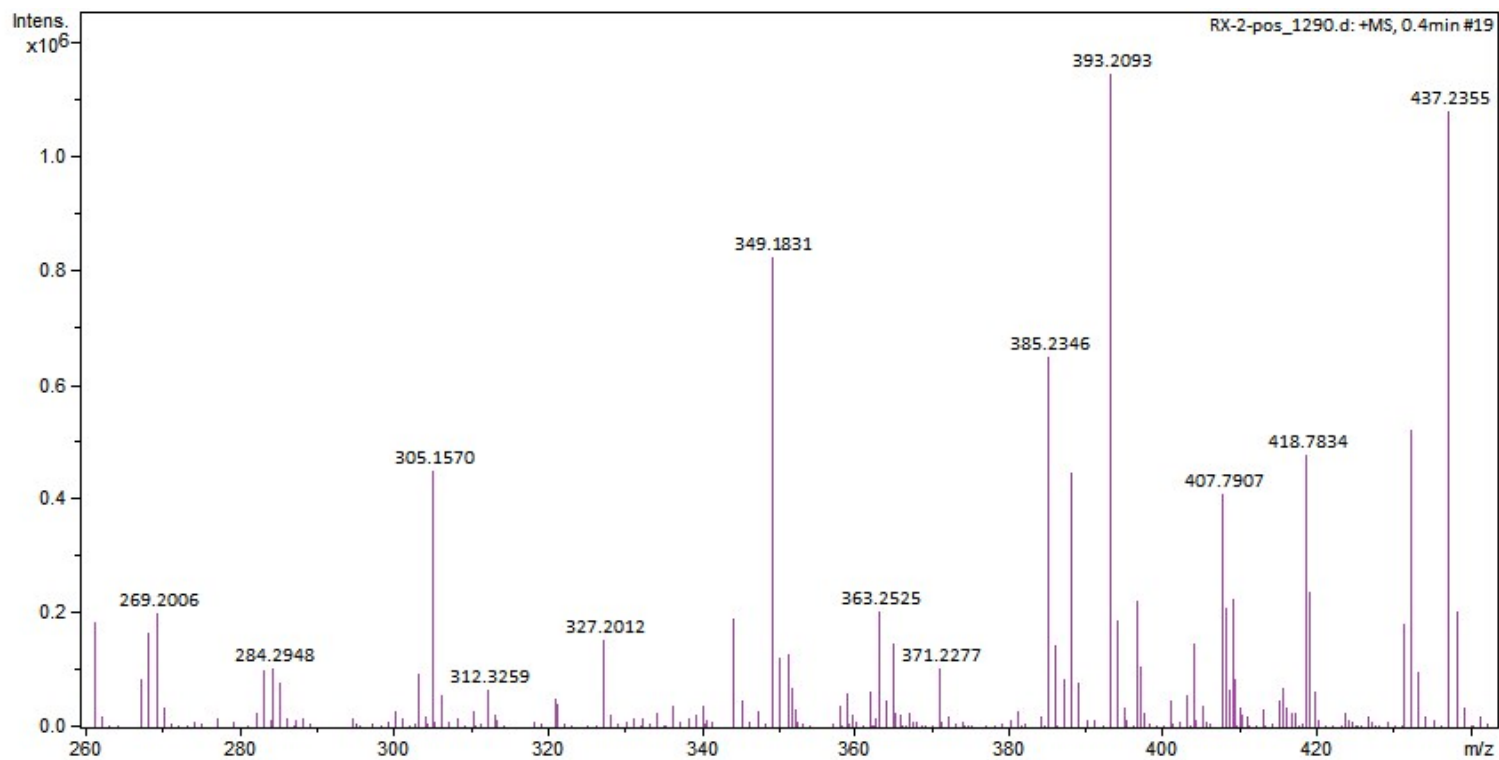


Figure S44. The HREIMS Spectroscopic Data of Compound 7

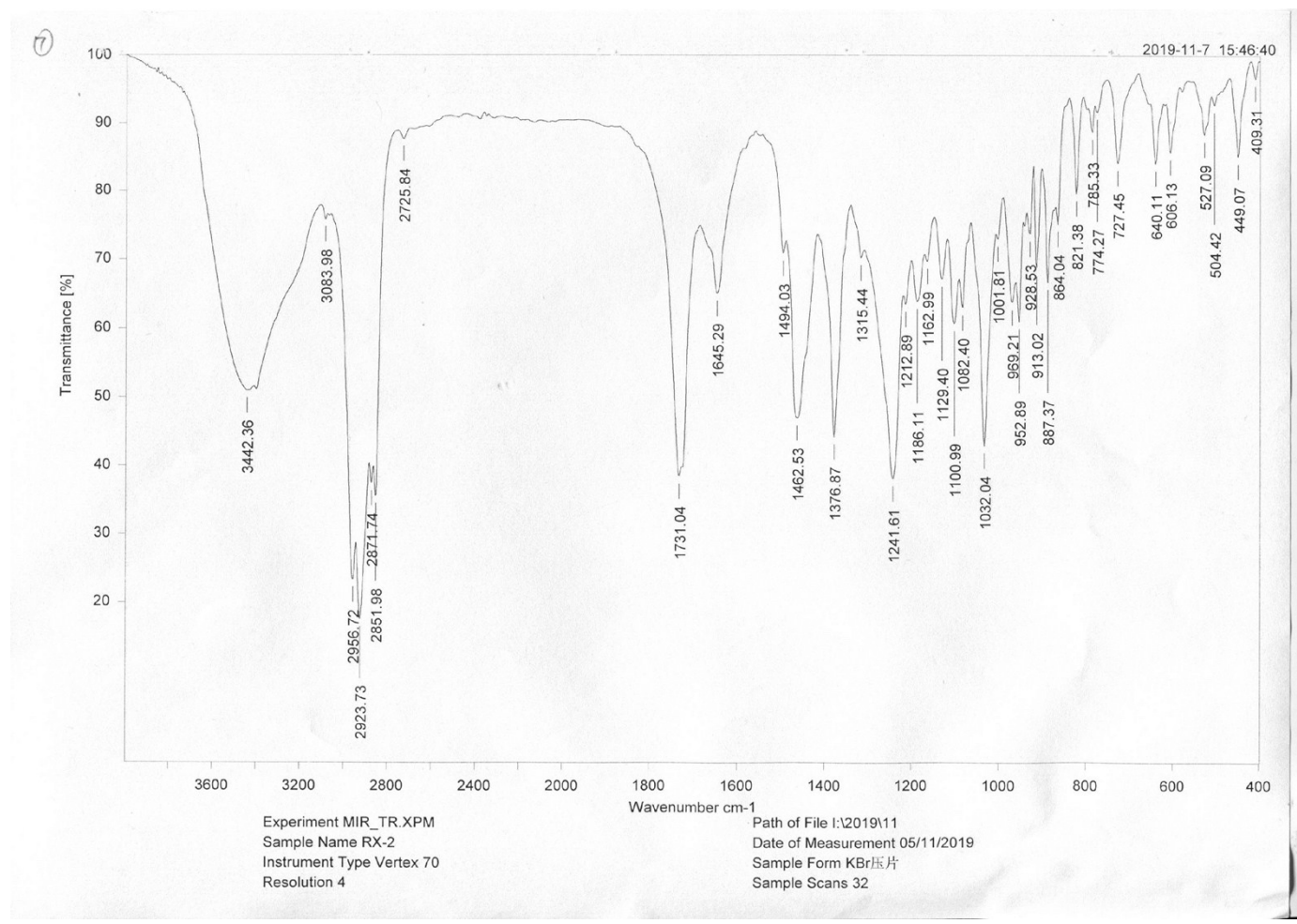


Figure S45. The IR Spectrum of Compound 7

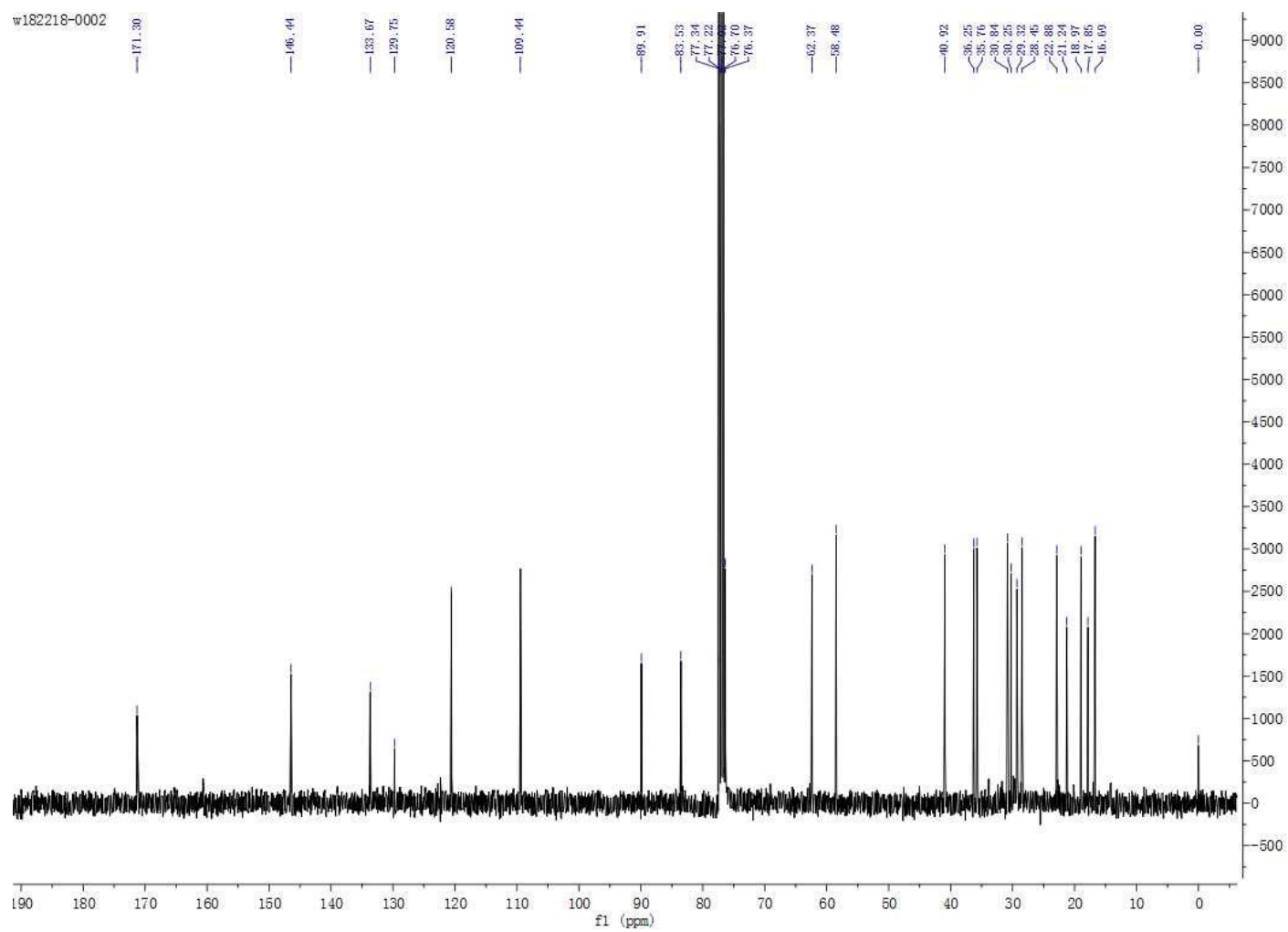


Figure S47. The ^{13}C NMR Spectrum of Compound **7** in CDCl_3 (100 MHz)

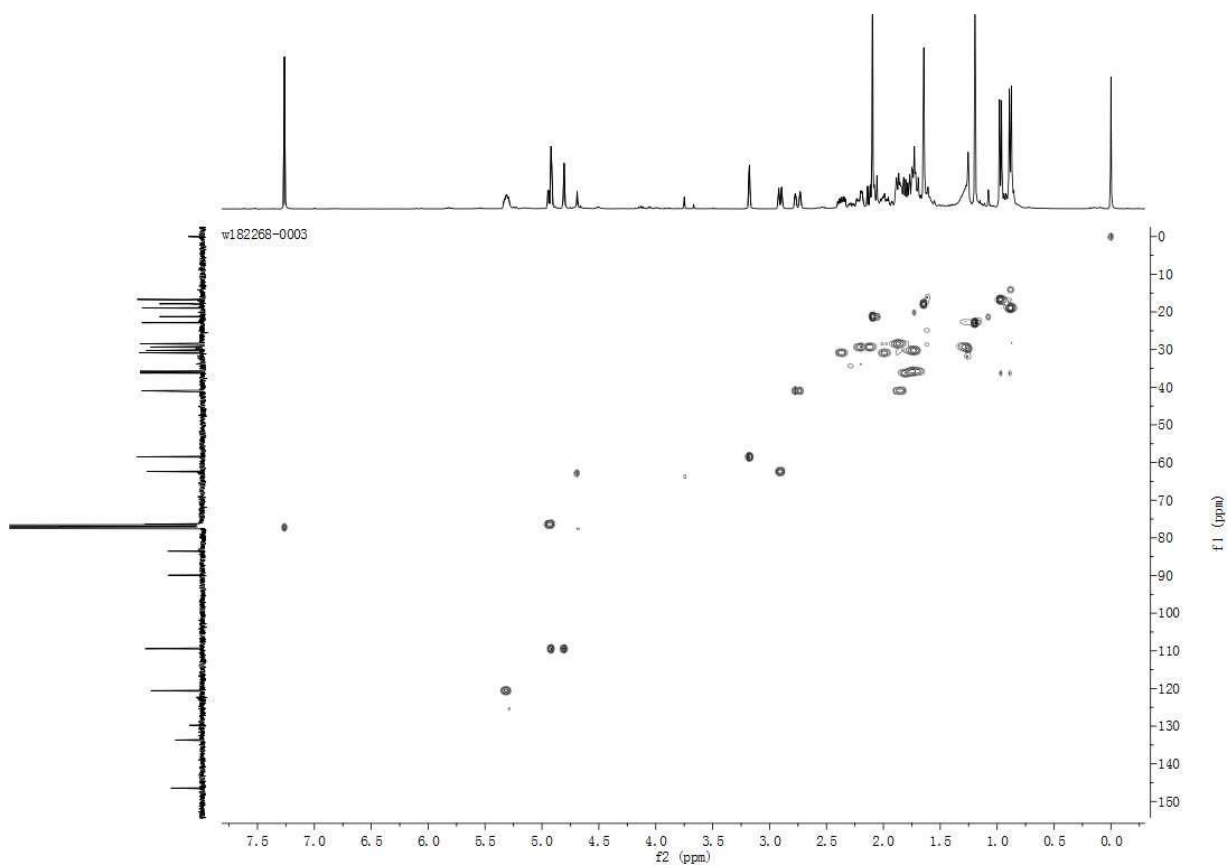


Figure S48. The HSQC Spectrum of Compound **7** in CDCl_3 (400 MHz for ^1H)

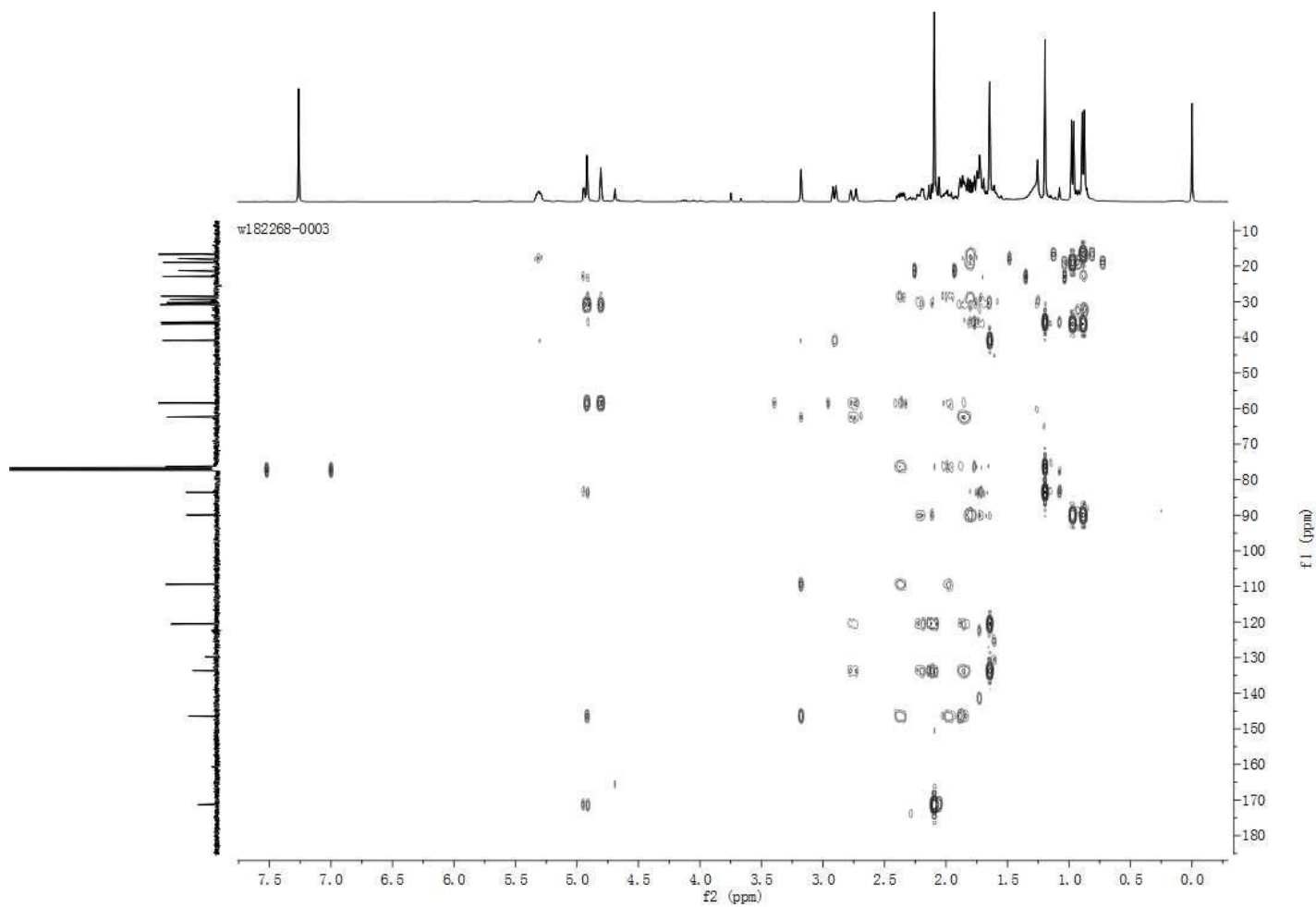


Figure S49. The HMBC Spectrum of Compound 7 in CDCl_3 (400 MHz for ^1H)

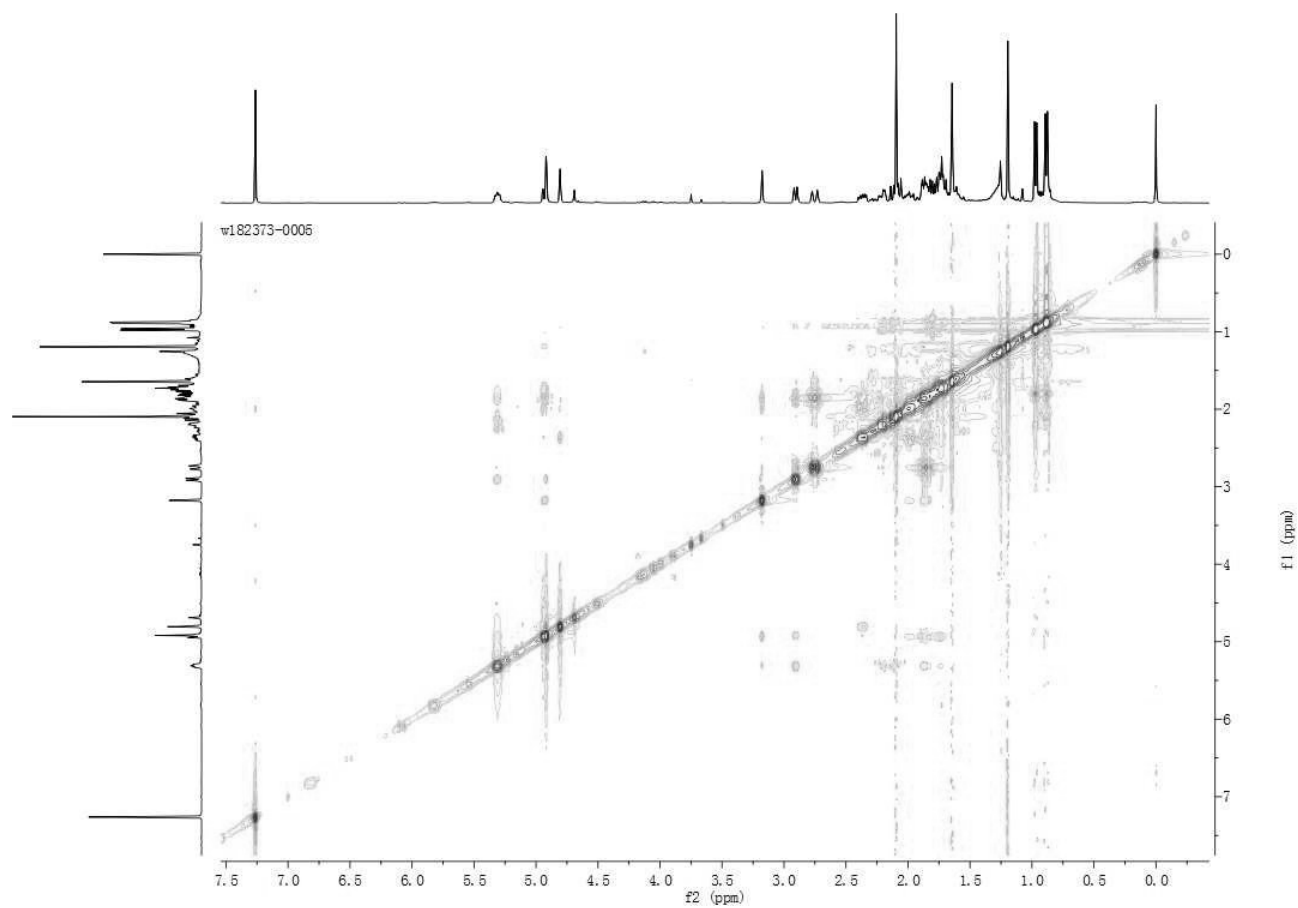


Figure S50. The NOESY Spectrum of Compound **7** in CDCl_3 (400 MHz)

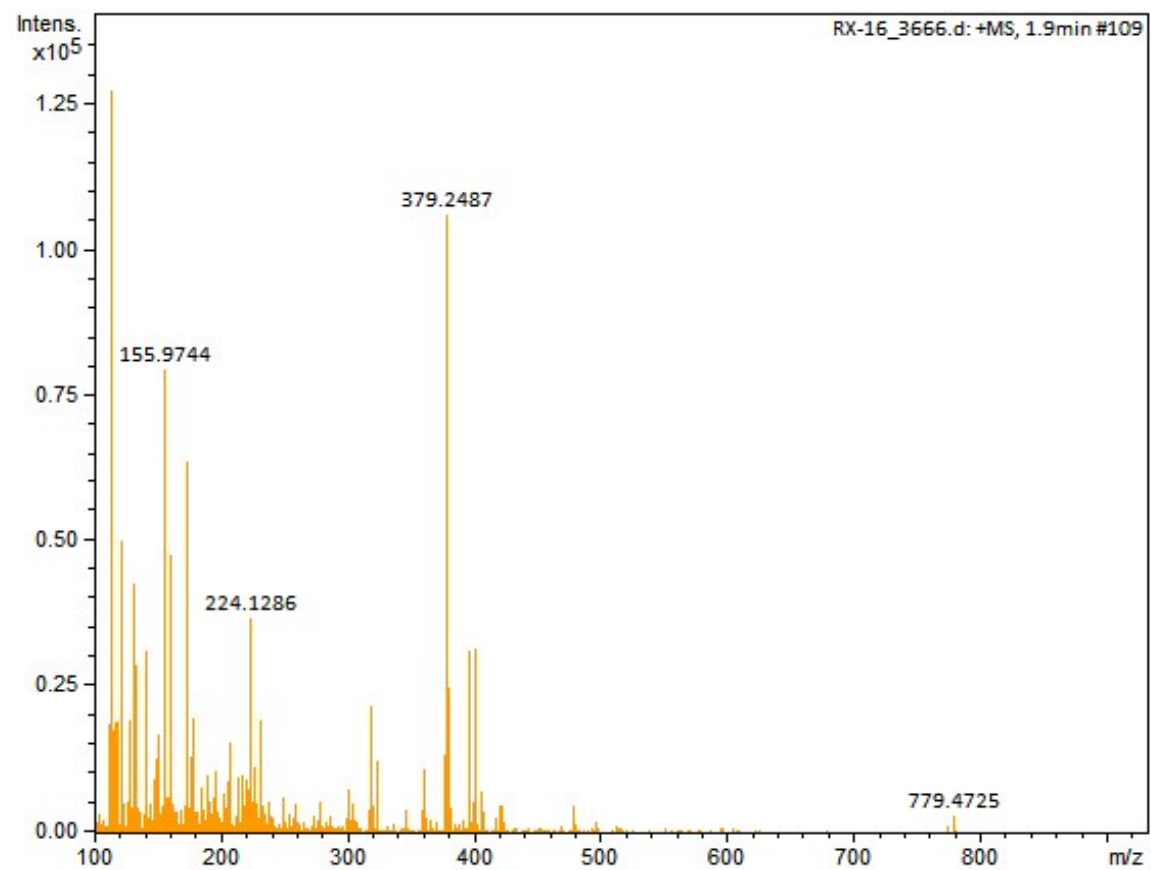


Figure S51. The HREIMS Spectroscopic Data of Compound **8**

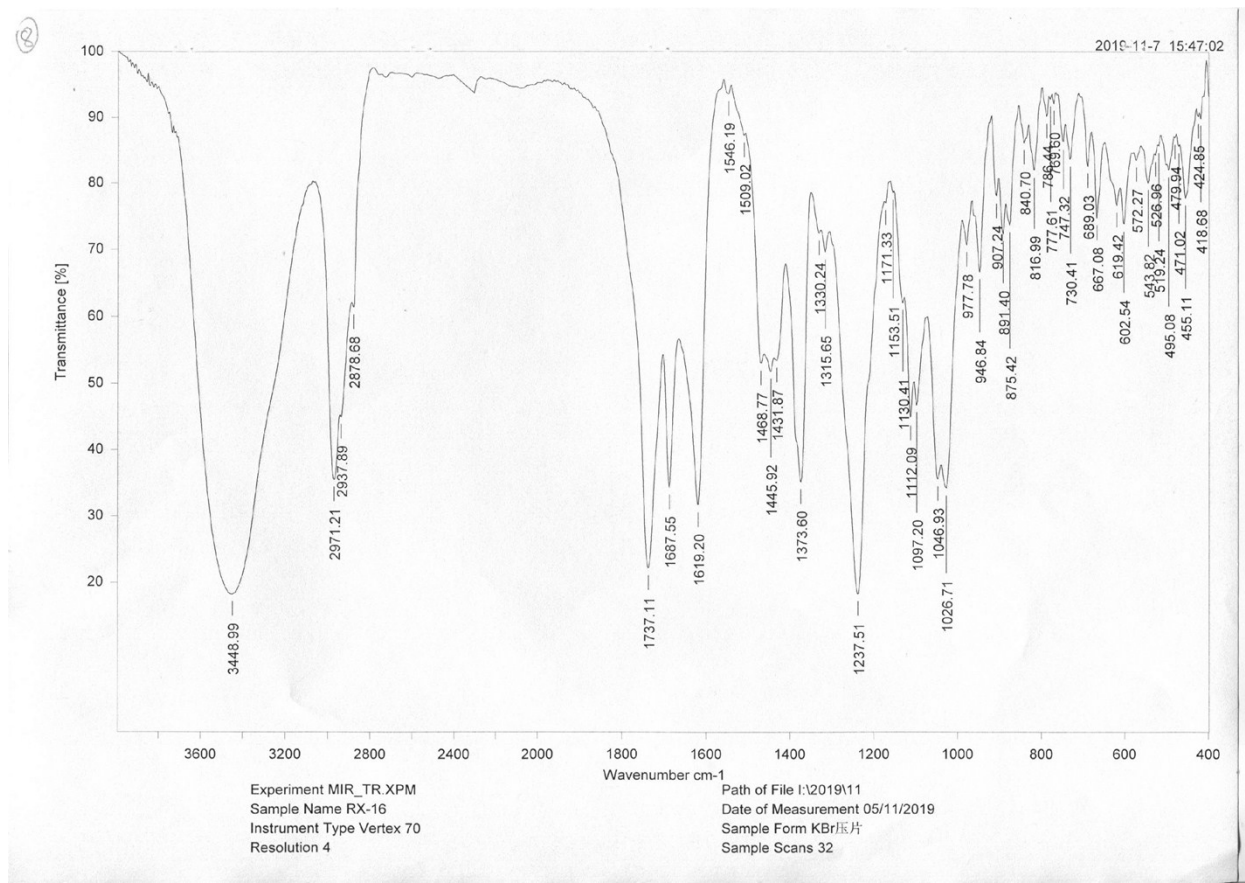


Figure S52. The IR Spectrum of Compound 8

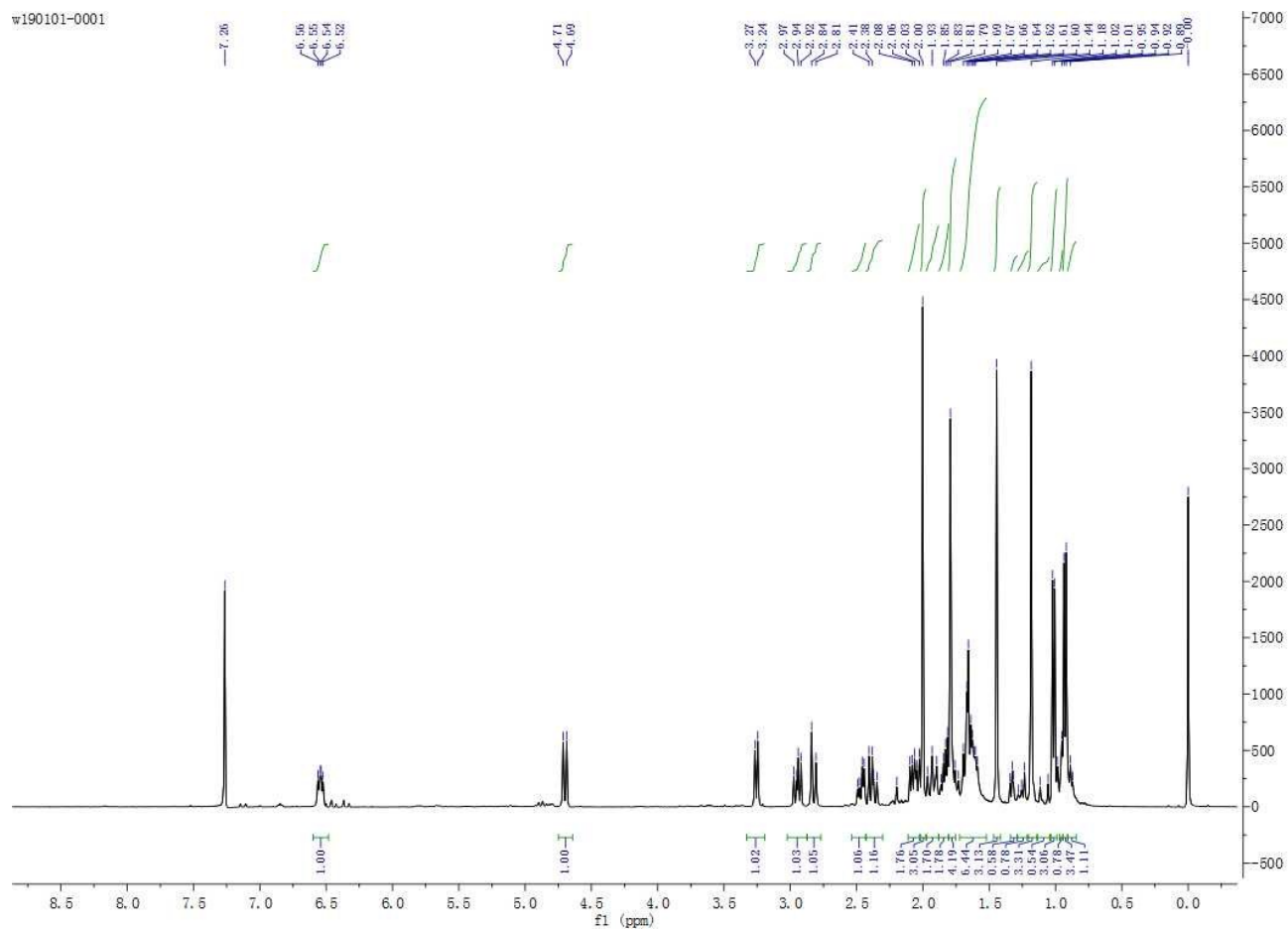


Figure S53. The ^1H NMR Spectrum of Compound **8** in CDCl_3 (400 MHz)

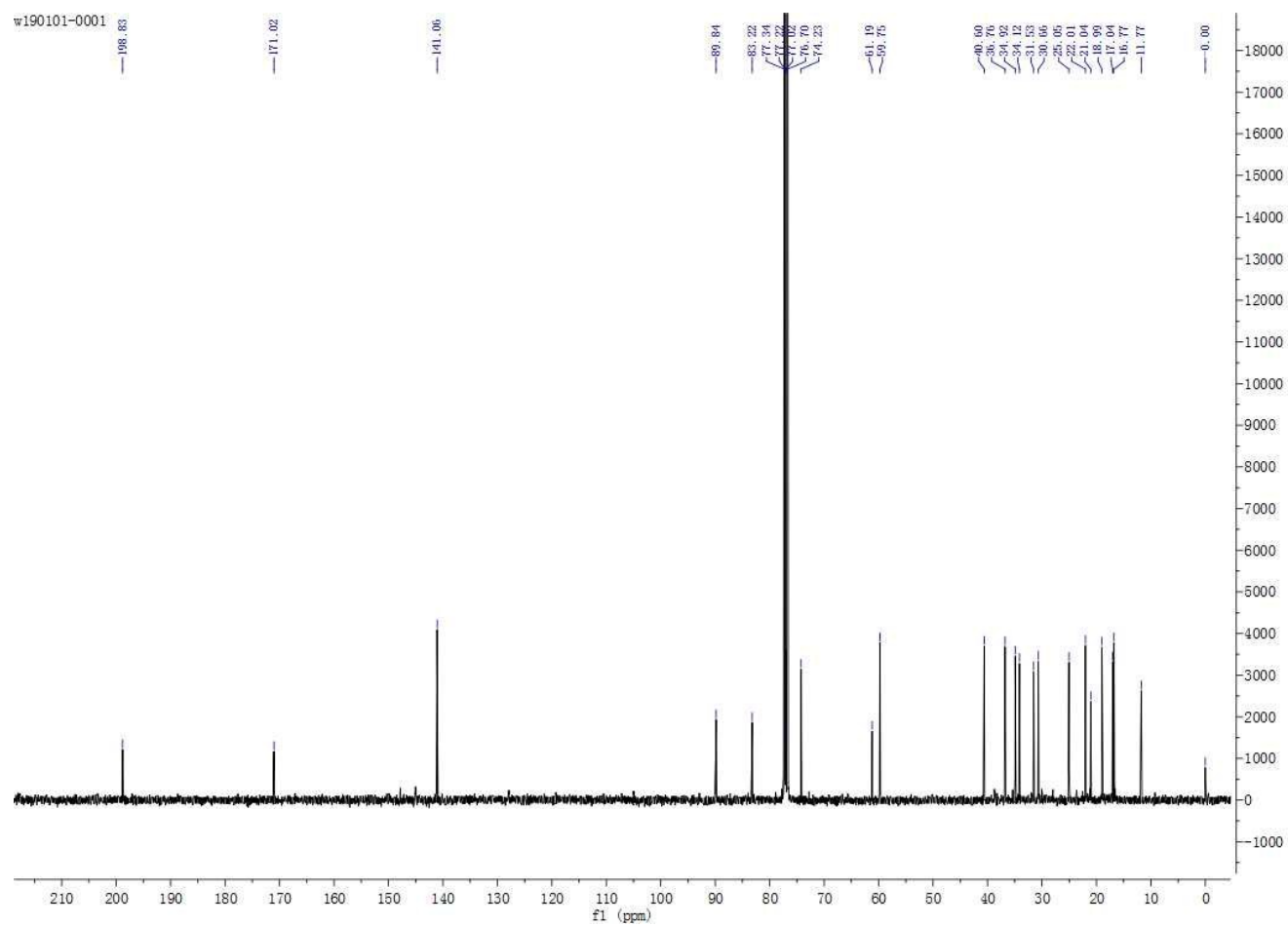


Figure S54. The ^{13}C NMR Spectrum of Compound **8** in CDCl_3 (100 MHz)

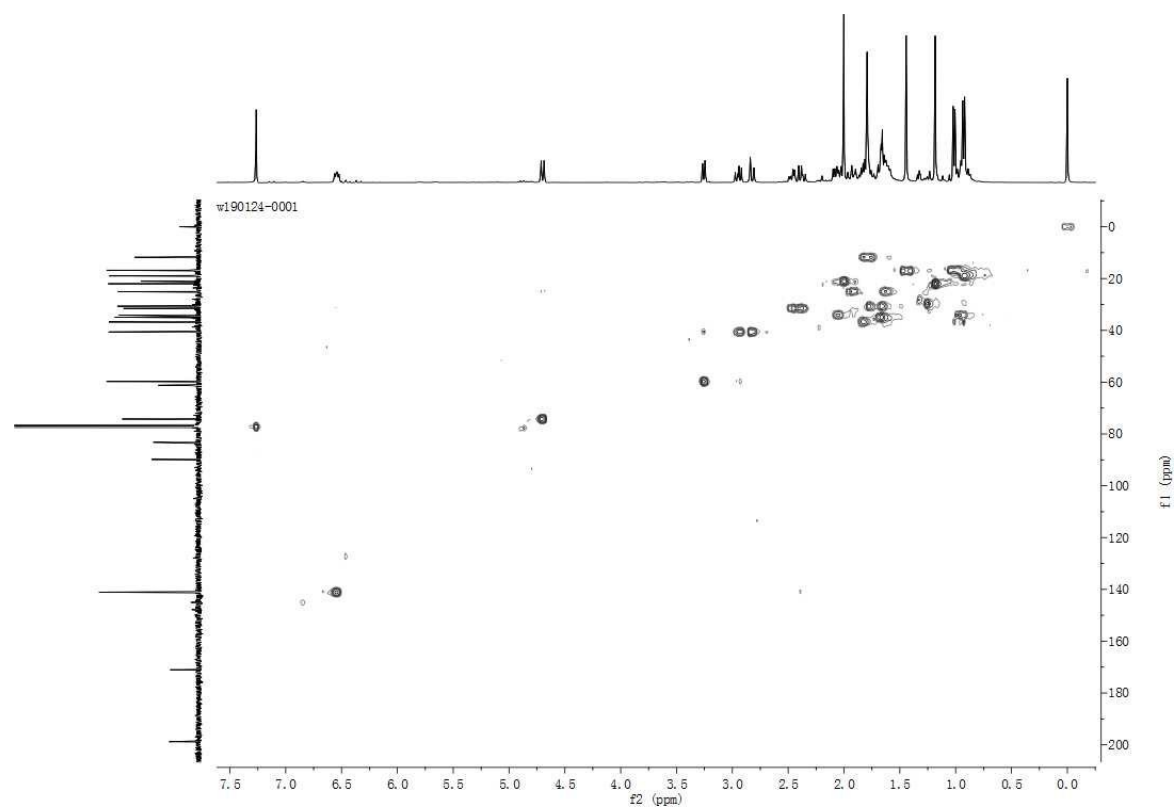


Figure S55. The HSQC Spectrum of Compound **8** in CDCl_3 (400 MHz for ^1H)

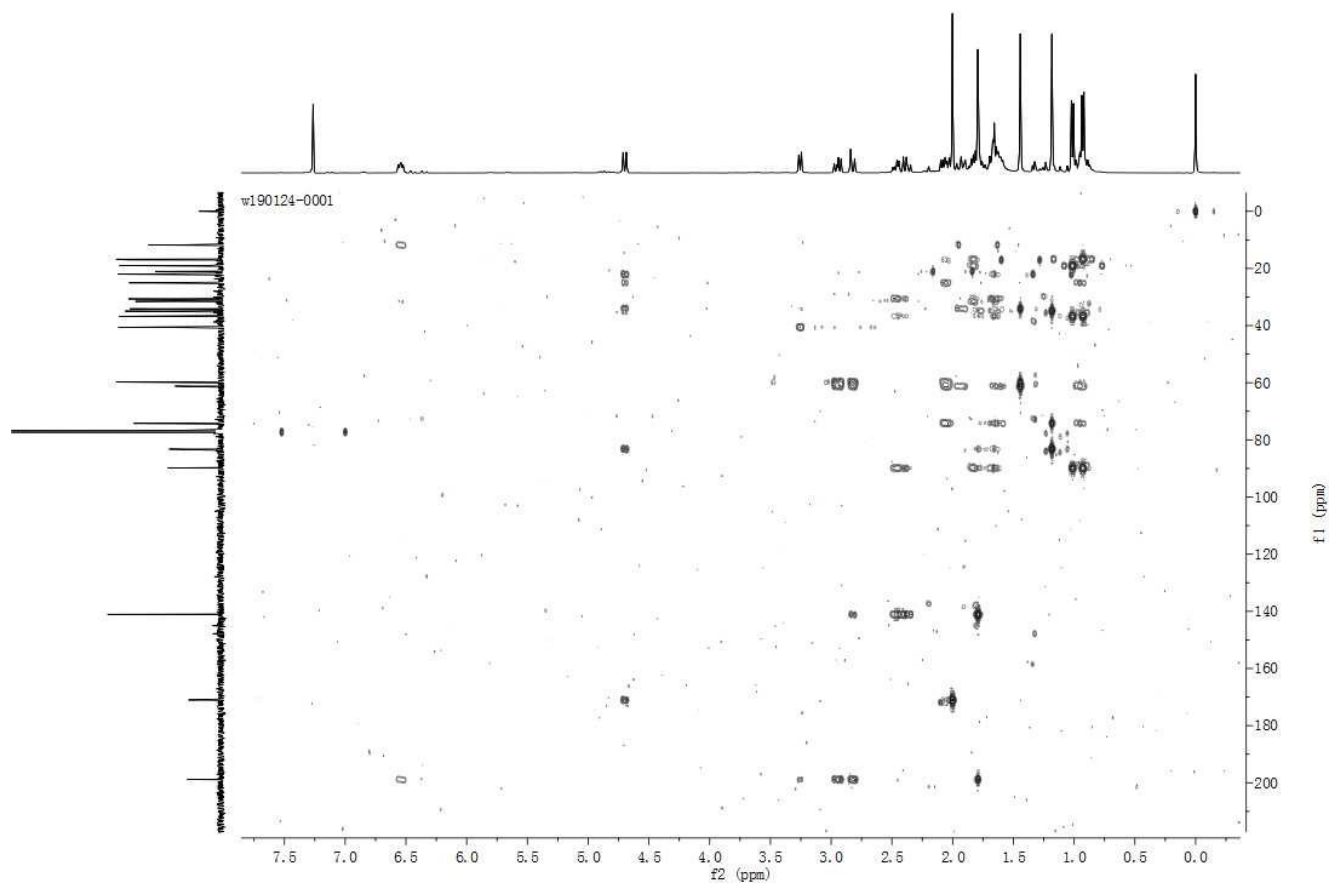


Figure S56. The HMBC Spectrum of Compound **8** in CDCl_3 (400 MHz for ^1H)

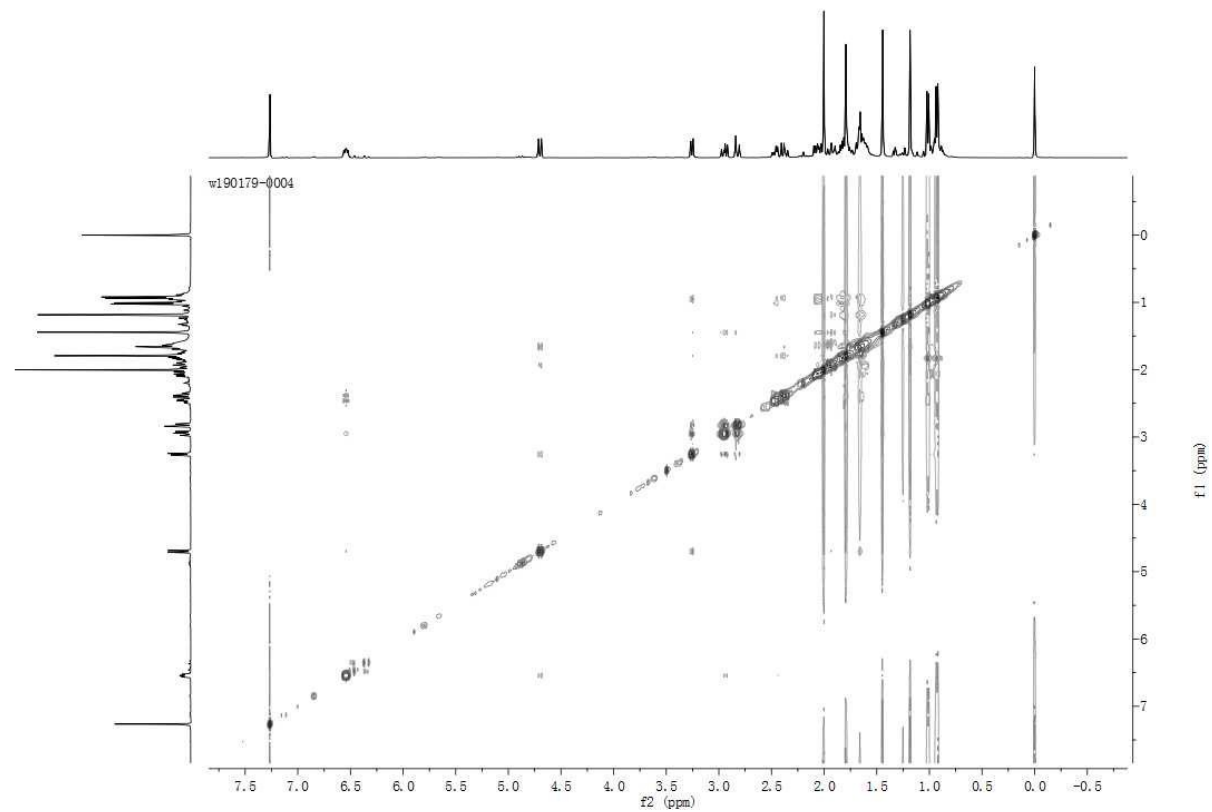


Figure S57. The NOESY Spectrum of Compound **8** in CDCl_3 (400 MHz)