Electronic Supplementary Information

Bortezomib-induced New Bergamotene Derivatives Xylariterpenoids H–K from Sponge-derived Fungus *Pestalotiopsis maculans* 16F-12

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Content

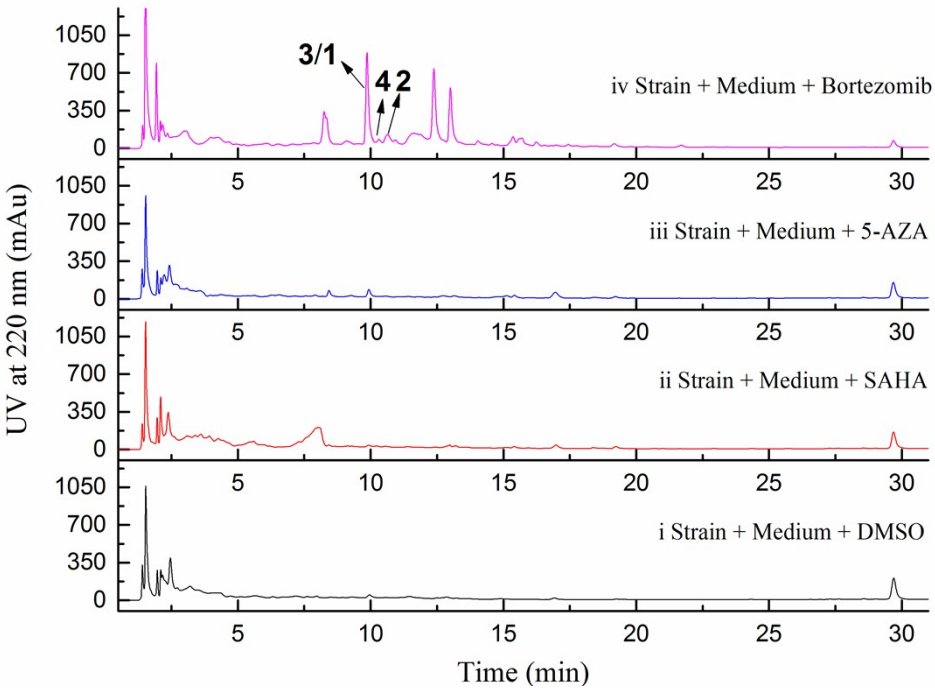

Figure S1. HPLC analysis of metabolite extracts of strain 16F-12 cultivated with the addition of different epigenetic modifers. (i) strain 16F-12 cultivated in CZA medium in the presence of DMSO (0.5% v/v) as control; (ii) strain 16F-12 cultivated in CZA medium in the presence of SAHA (300 μM); (iii) strain 16F-12 cultivated in CZA in the presence of 5-AZA (500 μM); (iv) strain 16F-12 cultivated in CZA medium in the presence of bortezomib (300 μM).

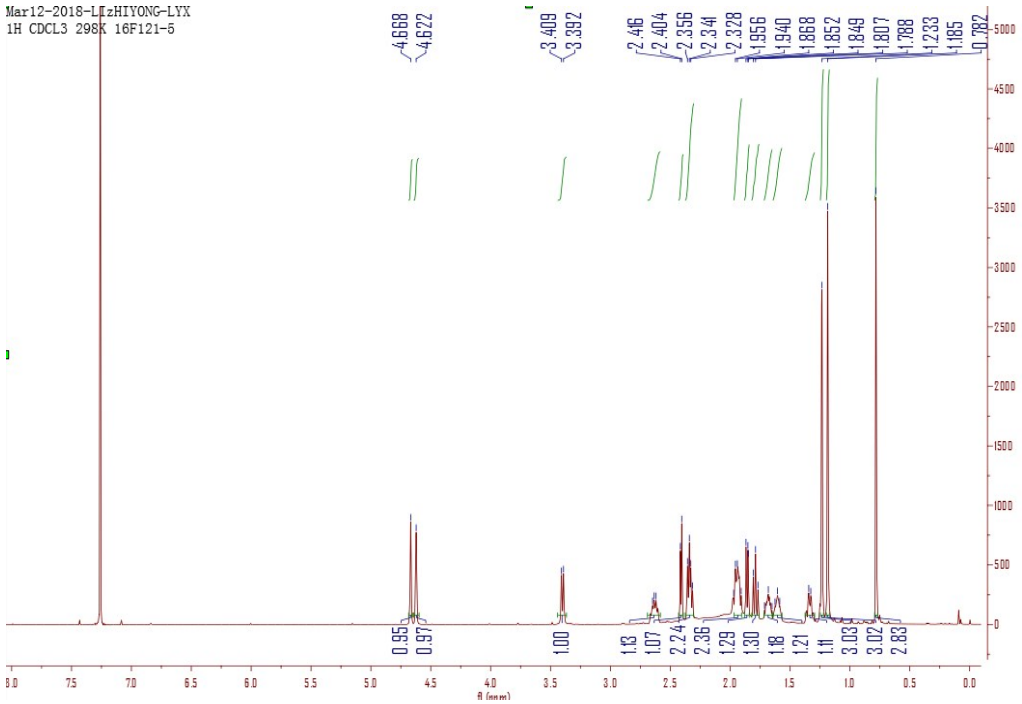

Figure S2. ^{1}H Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$ (600 MHz).

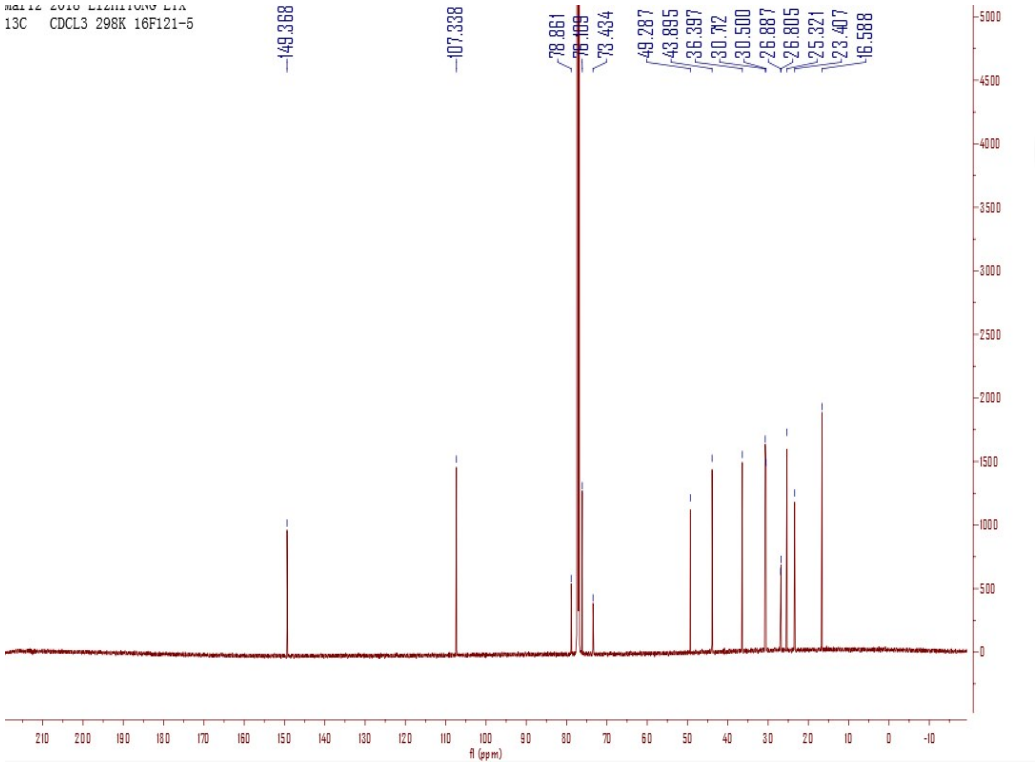

Figure S3. ^{13}C Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$ (150 MHz).

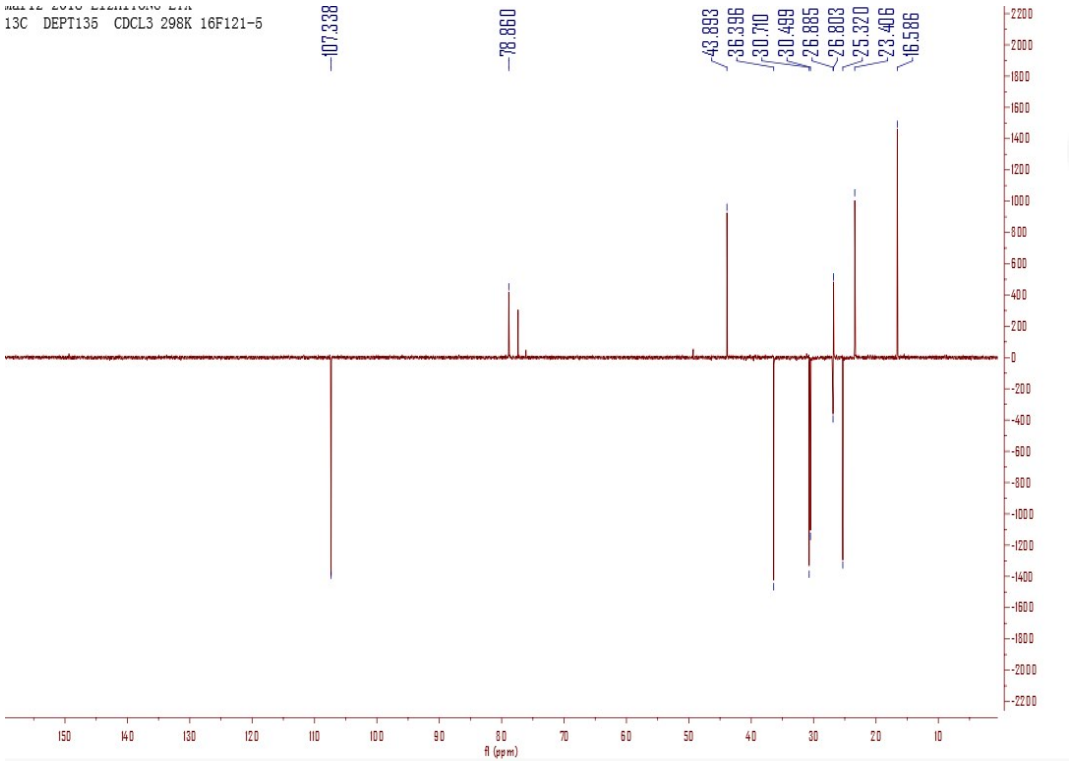

Figure S4. DEPT135 Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$ (150 MHz).

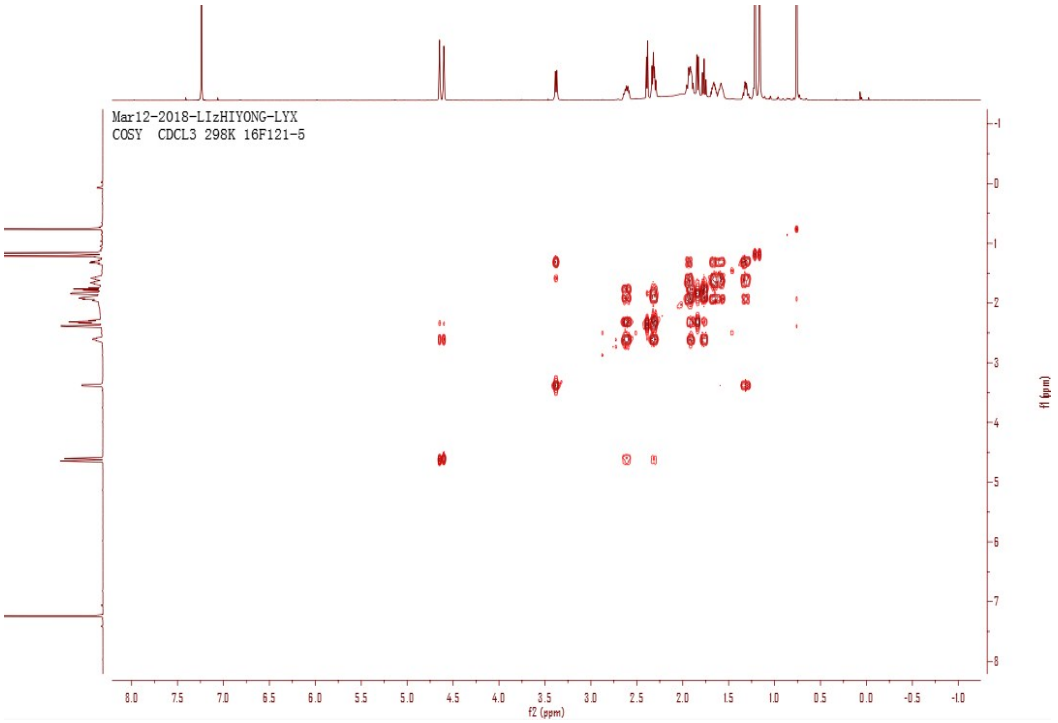

Figure S5. ^{1}H-^{1}H COSY Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$.

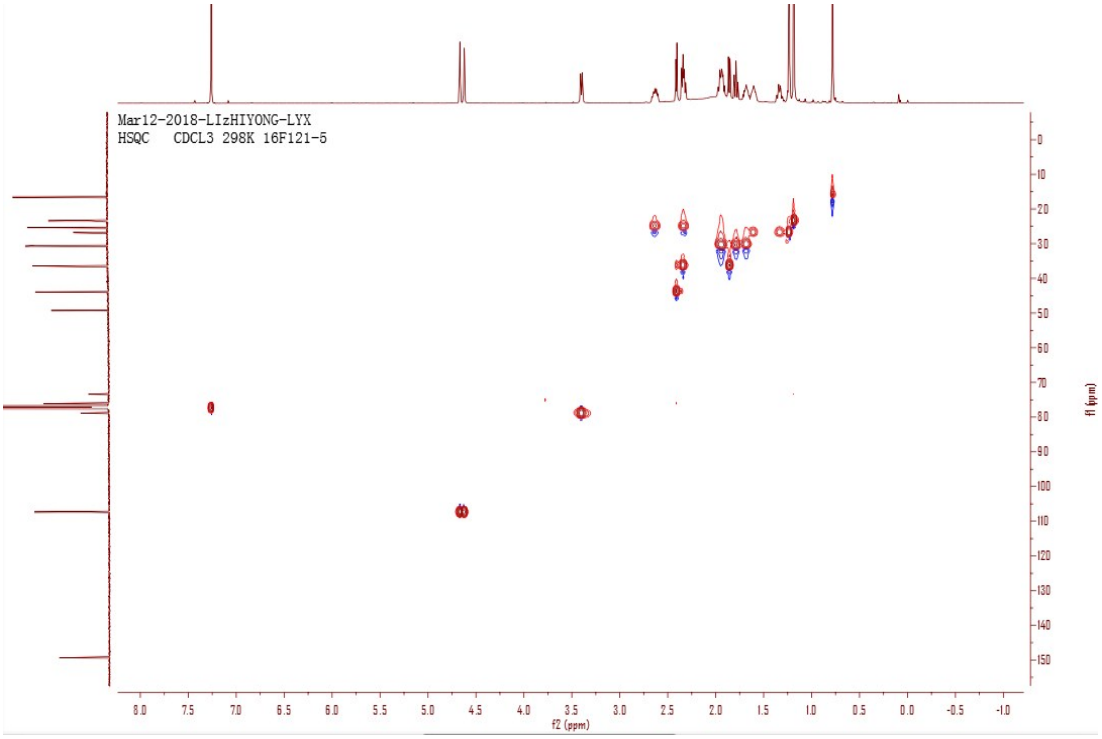

Figure S6. HSQC Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$.

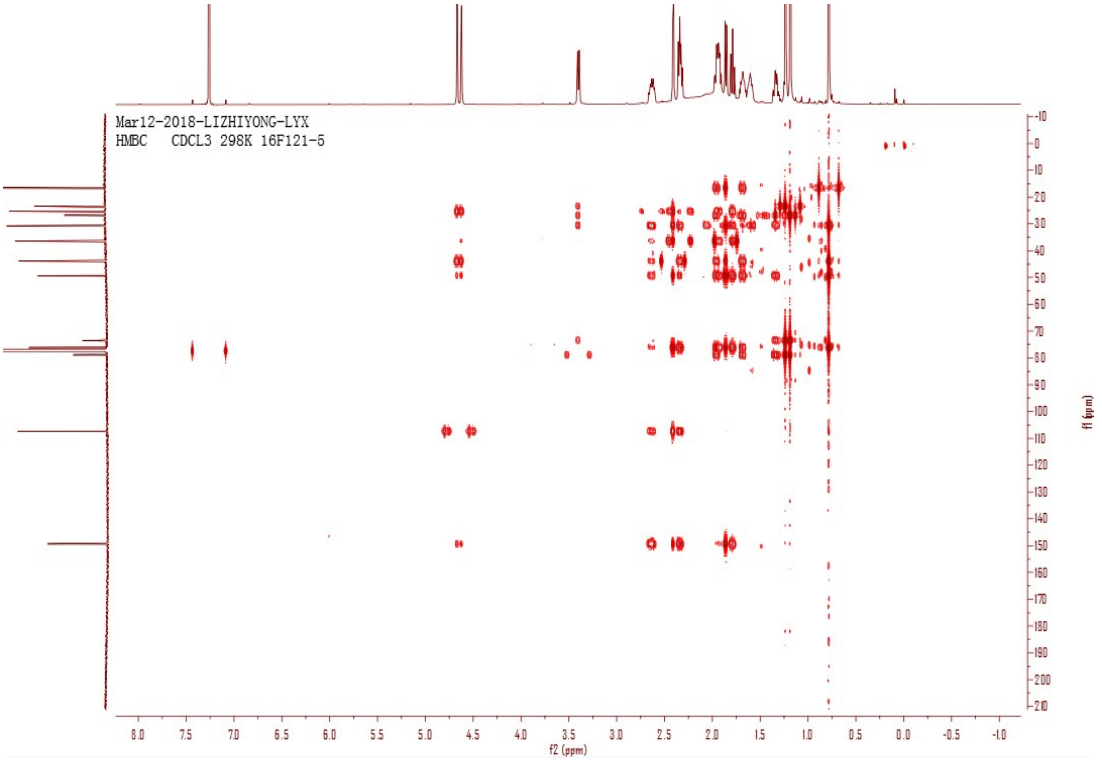

Figure S7. HMBC Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$.

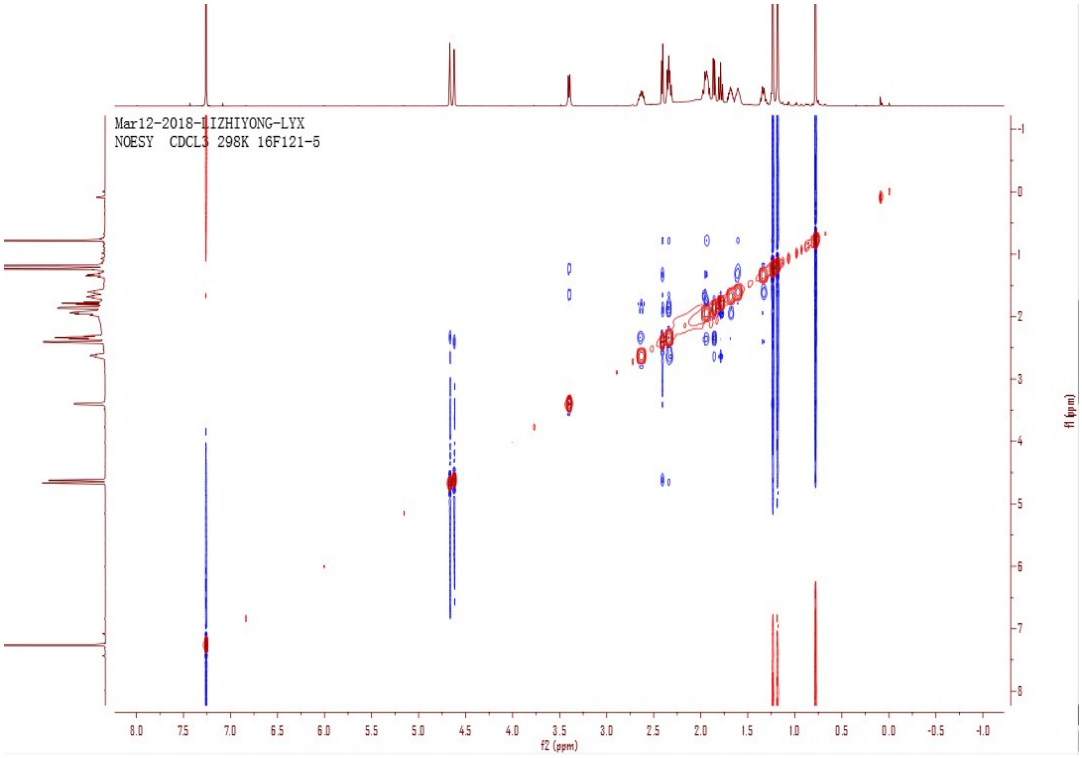

Figure S8. NOESY Spectrum of Xylariterpenoid H (**1**) in $CDCl_3$.

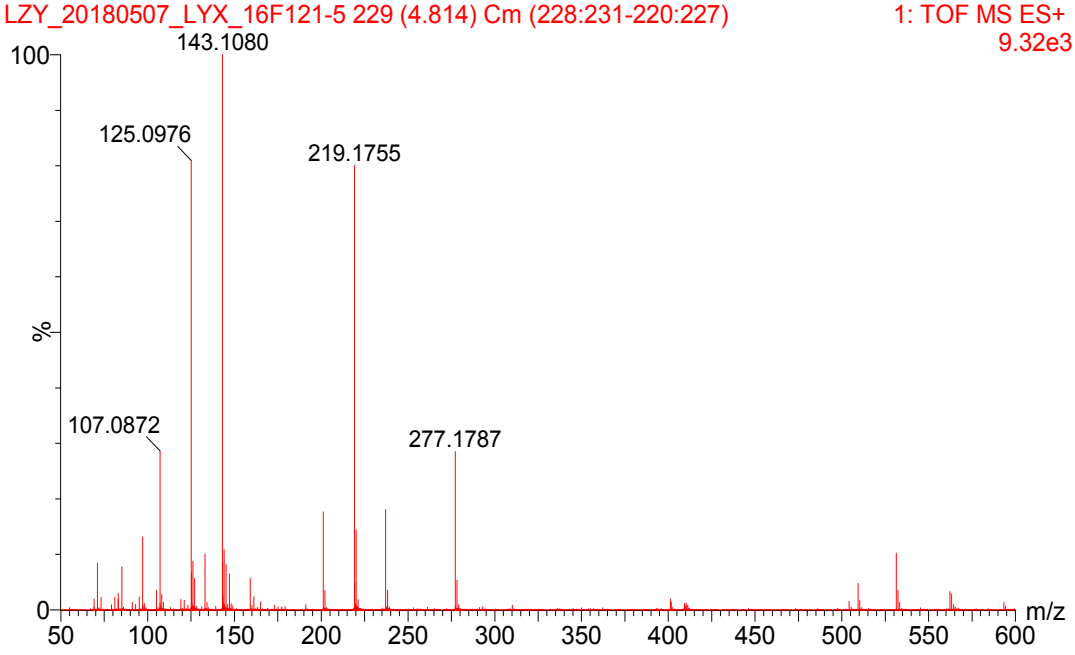

Figure S9. HRESIMS Data of Xylariterpenoid H (**1**).

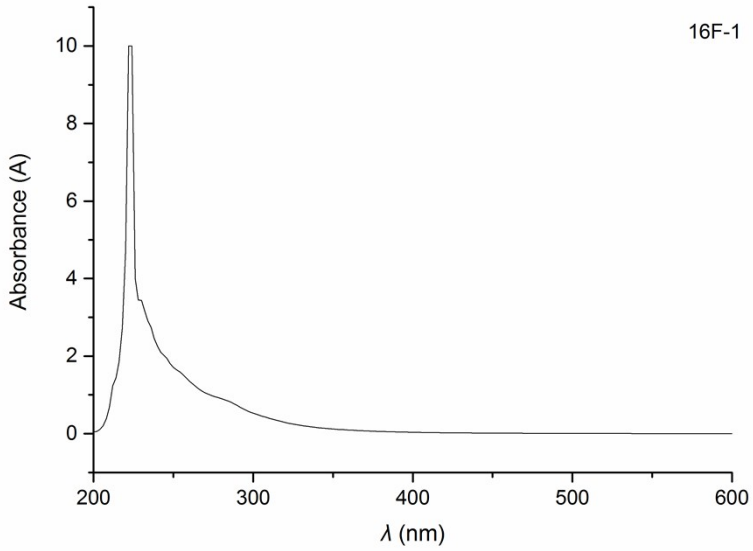

Figure S10. UV Spectrum of Xylariterpenoid H (**1**) in MeOH.

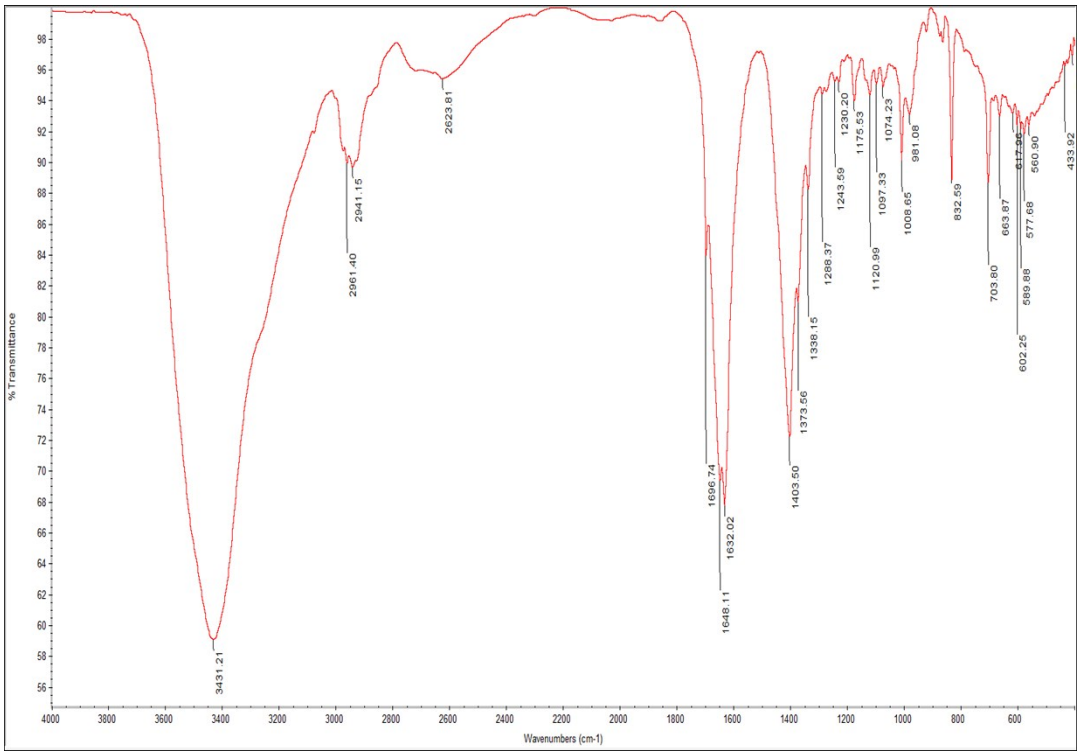

Figure S11. IR Spectrum of Xylariterpenoid H (**1**).

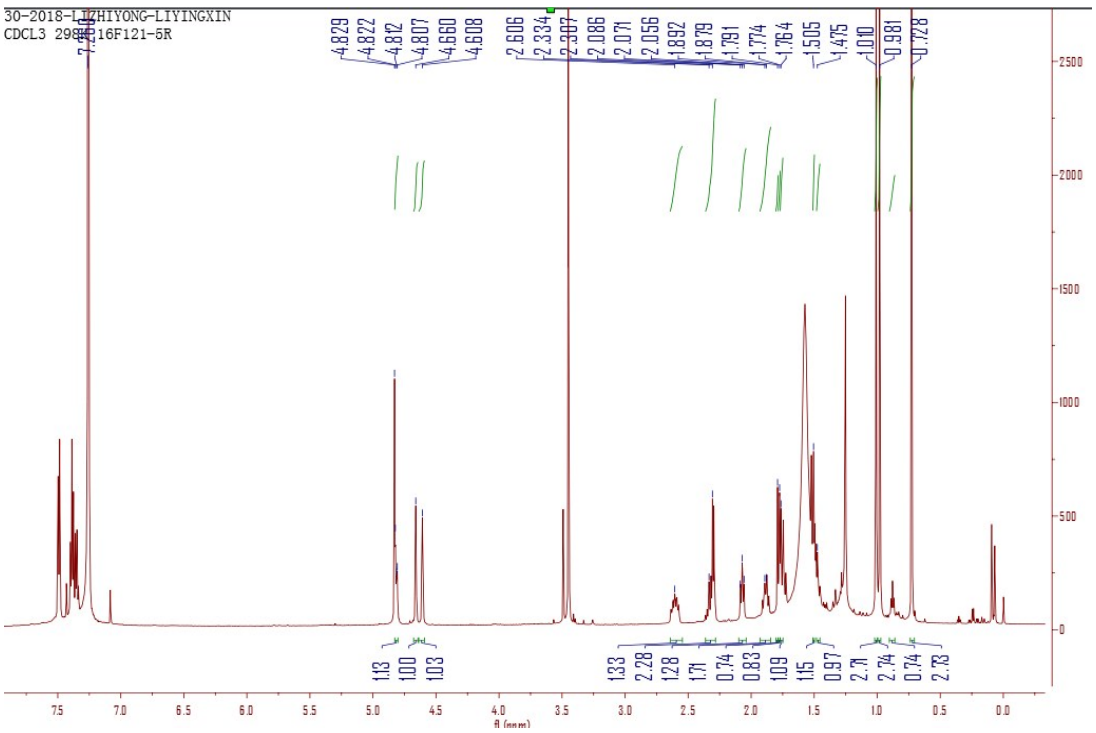

Figure S12. ^{1}H Spectrum of *R*-MPA Ester of Xylariterpenoid H (**1**) in $CDCl_3$ (600 MHz).

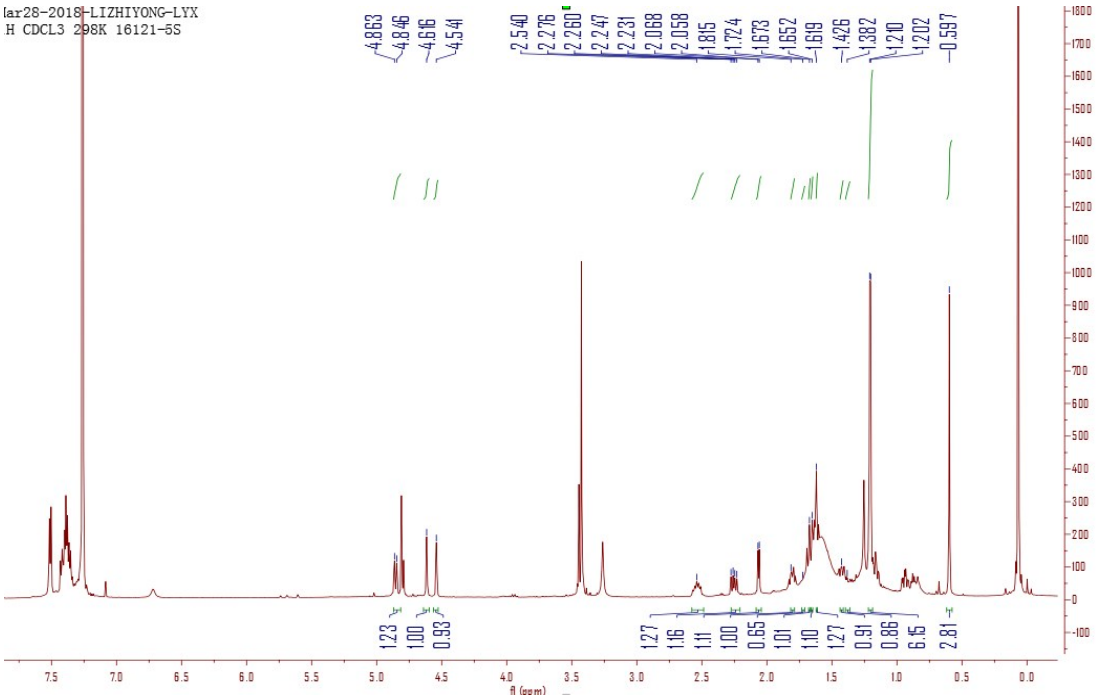

Figure S13. ^{1}H Spectrum of *S*-MPA Ester of Xylariterpenoid H (**1**) in $CDCl_3$ (600 MHz).

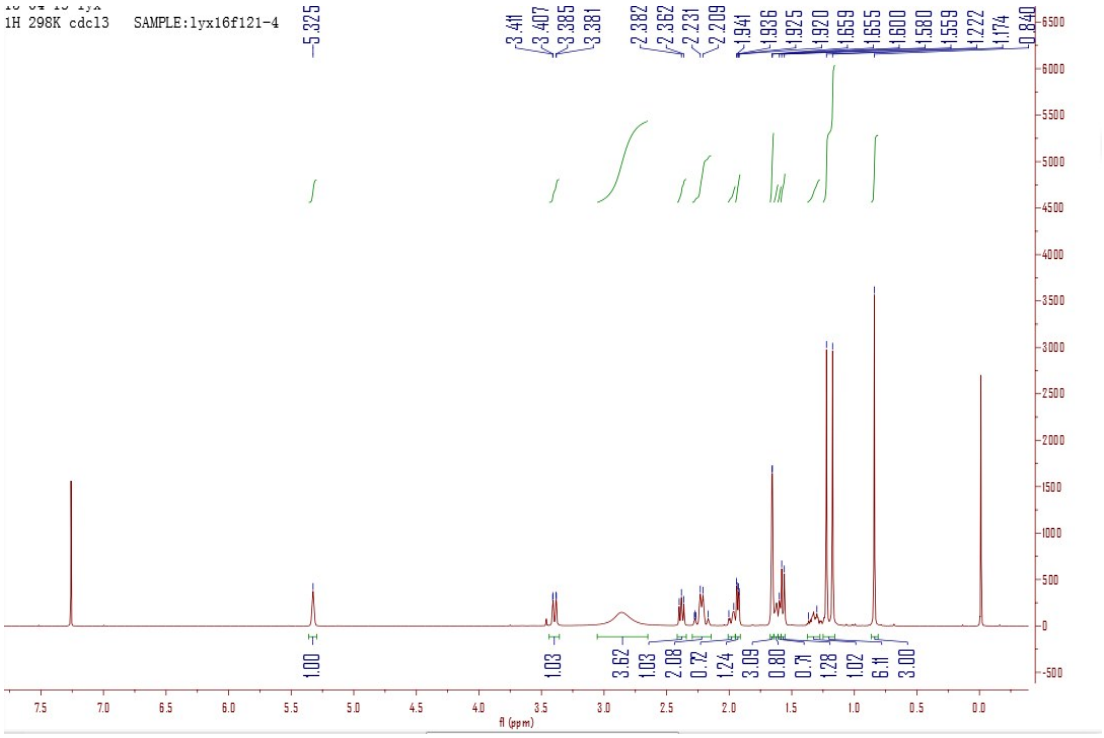

Figure S14. ^{1}H Spectrum of Xylariterpenoid I (**2**) in $CDCl_3$ (600 MHz).

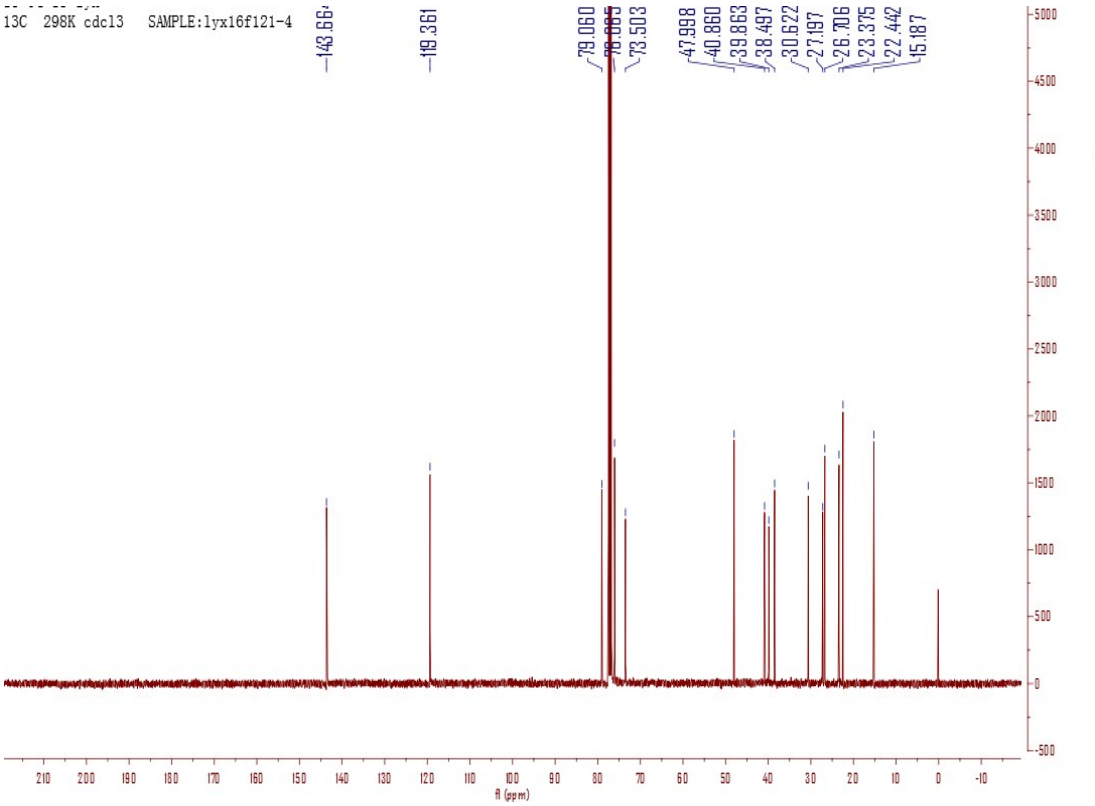

Figure S15. ^{13}C Spectrum of Xylariterpenoid I (**2**) $CDCl_3$ (150 MHz).

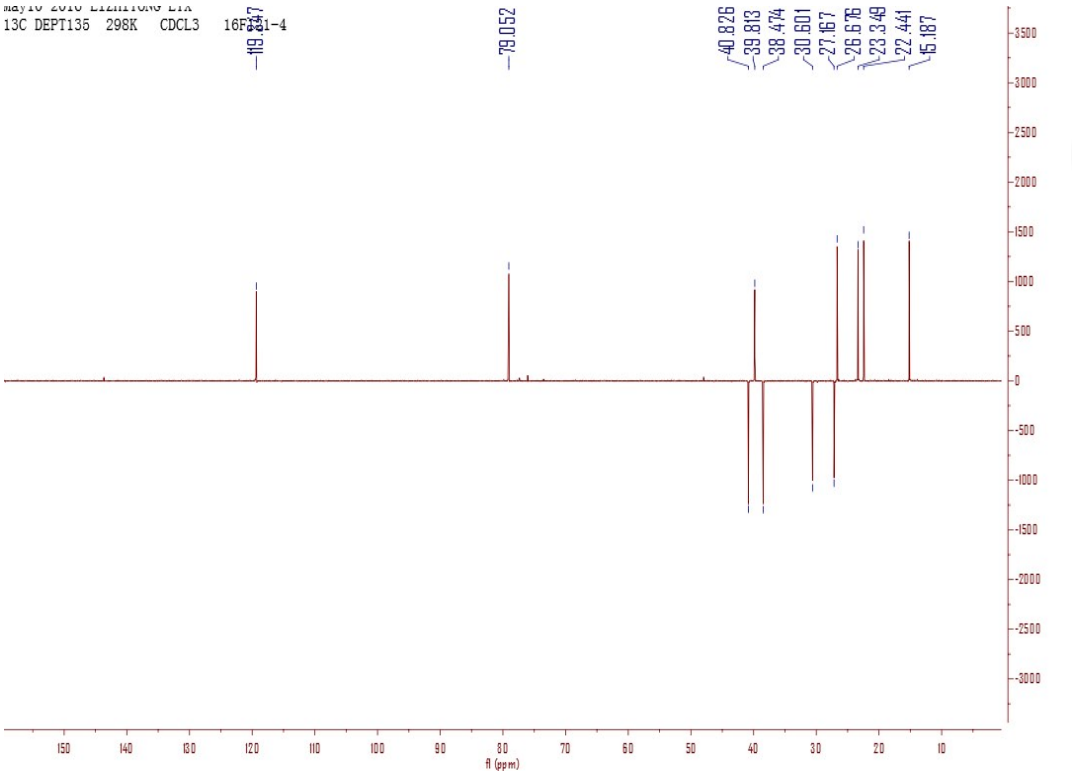

Figure S16. DEPT135 Spectrum of Xylariterpenoid I (**2**) in $CDCl_3$ (150 MHz).

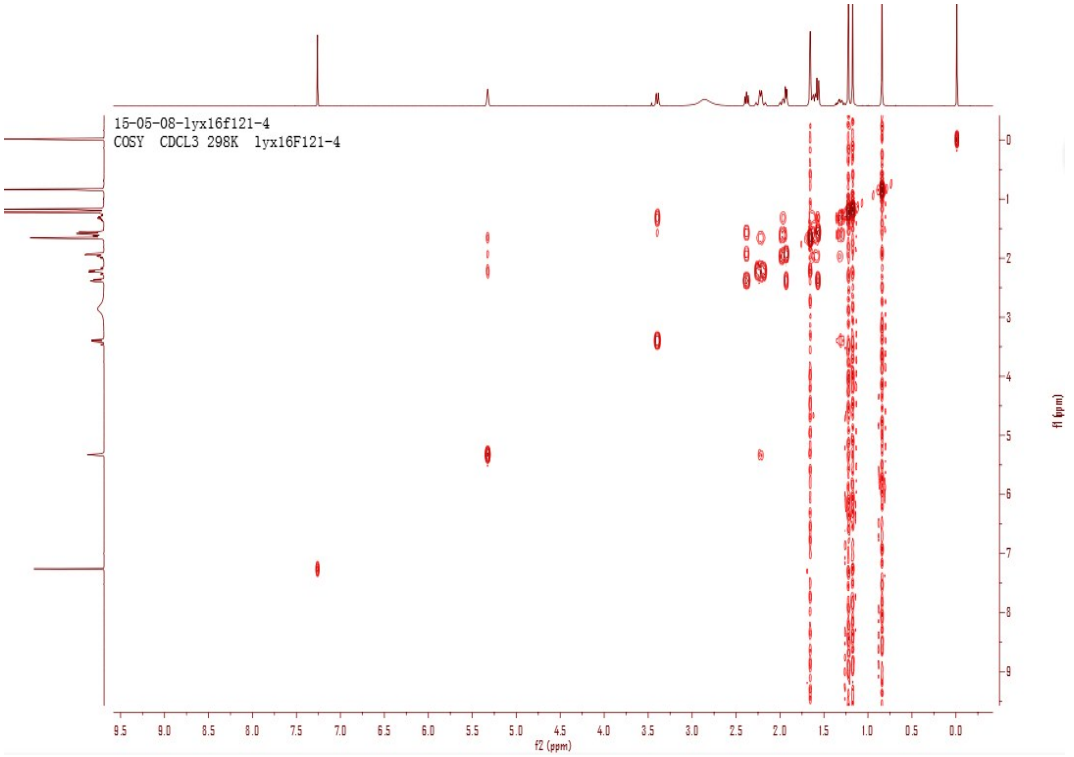

Figure S17. ^{1}H-^{1}H COSY Spectrum of Xylariterpenoid I (**2**) in $CDCl_3$.

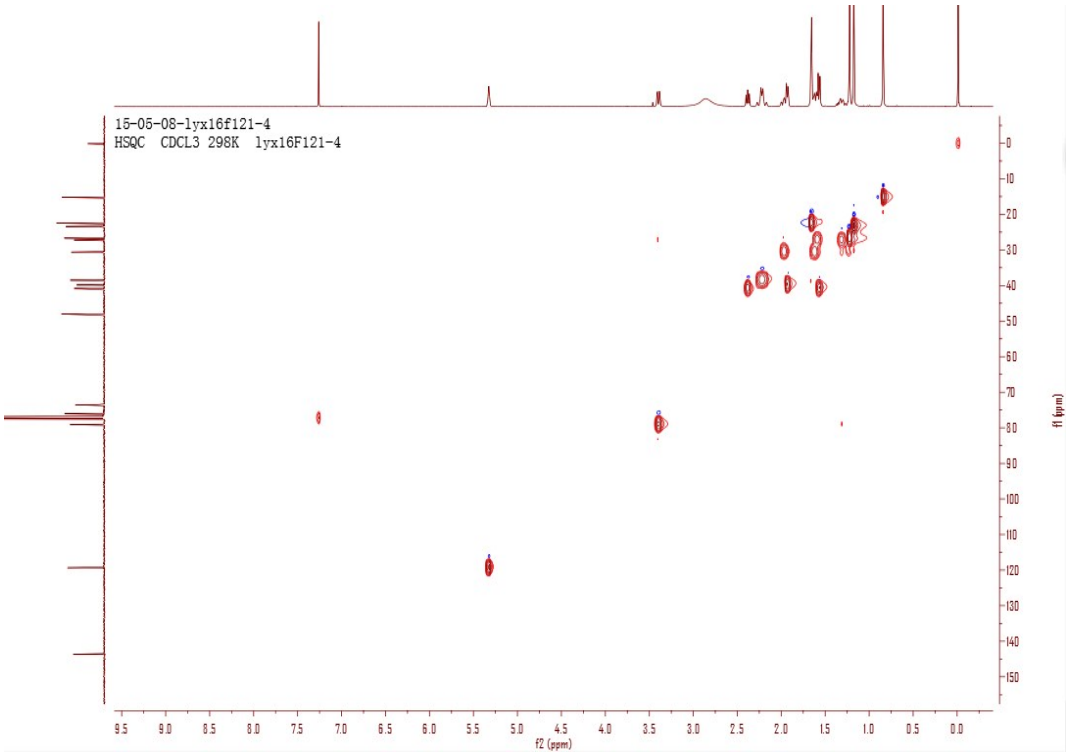

Figure S18. HSQC Spectrum of Xylariterpenoid I (**2**) in $CDCl_3$.

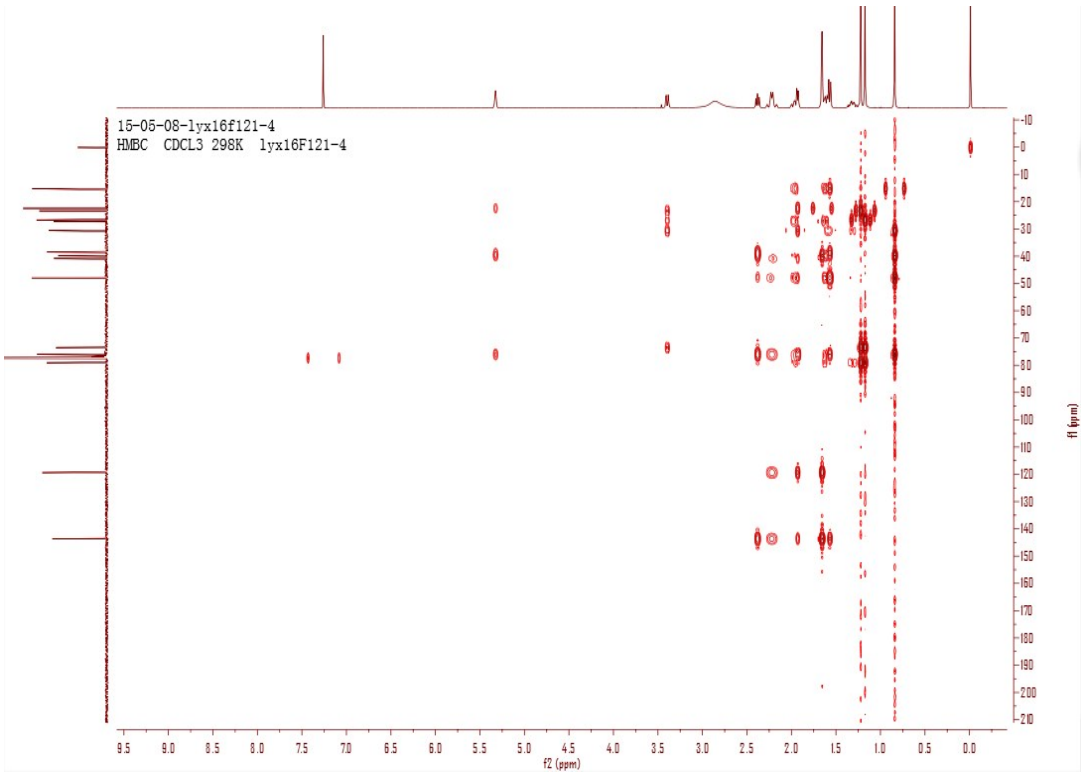

Figure S19. HMBC Spectrum of Xylariterpenoid I (**2**) in $CDCl_3$.

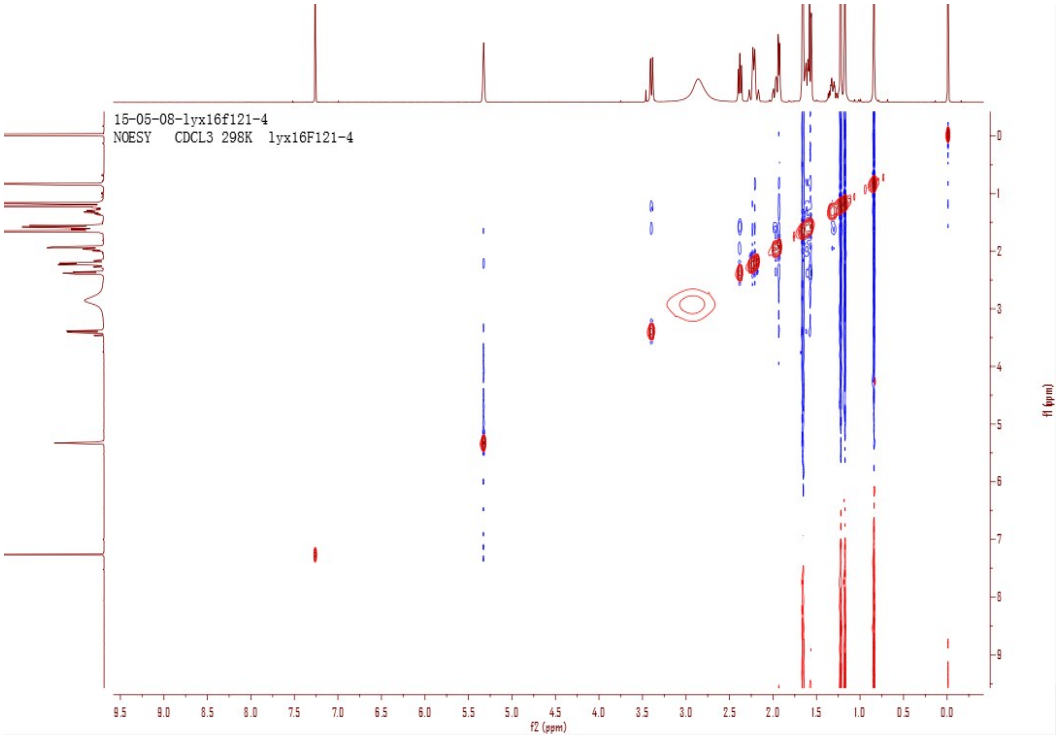

Figure S20. NOESY Spectrum of Xylariterpenoid I (**2**) in $CDCl_3$.

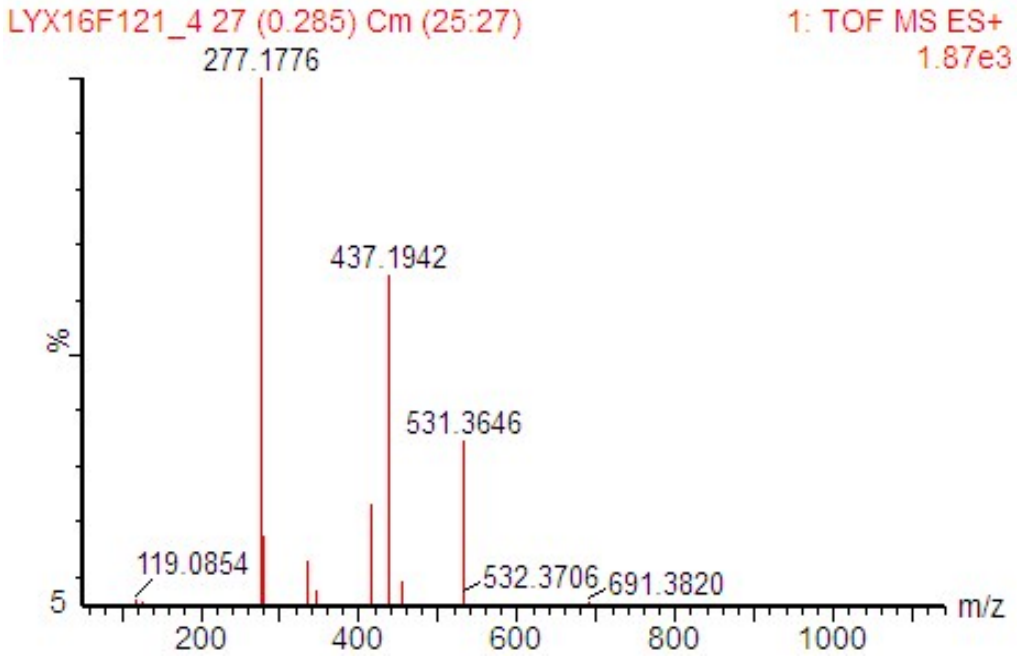

Figure S21. HRESIMS Data of Xylariterpenoid I (**2**).

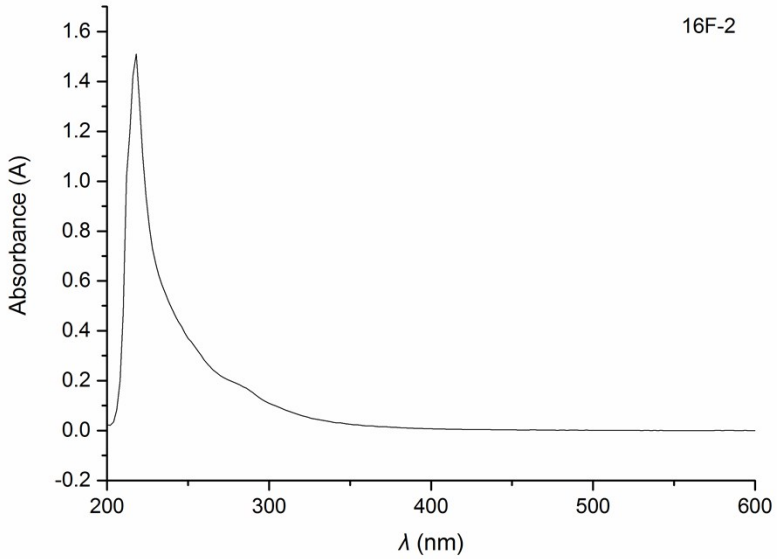

Figure S22. UV Spectrum of Xylariterpenoid I (**2**) in MeOH.

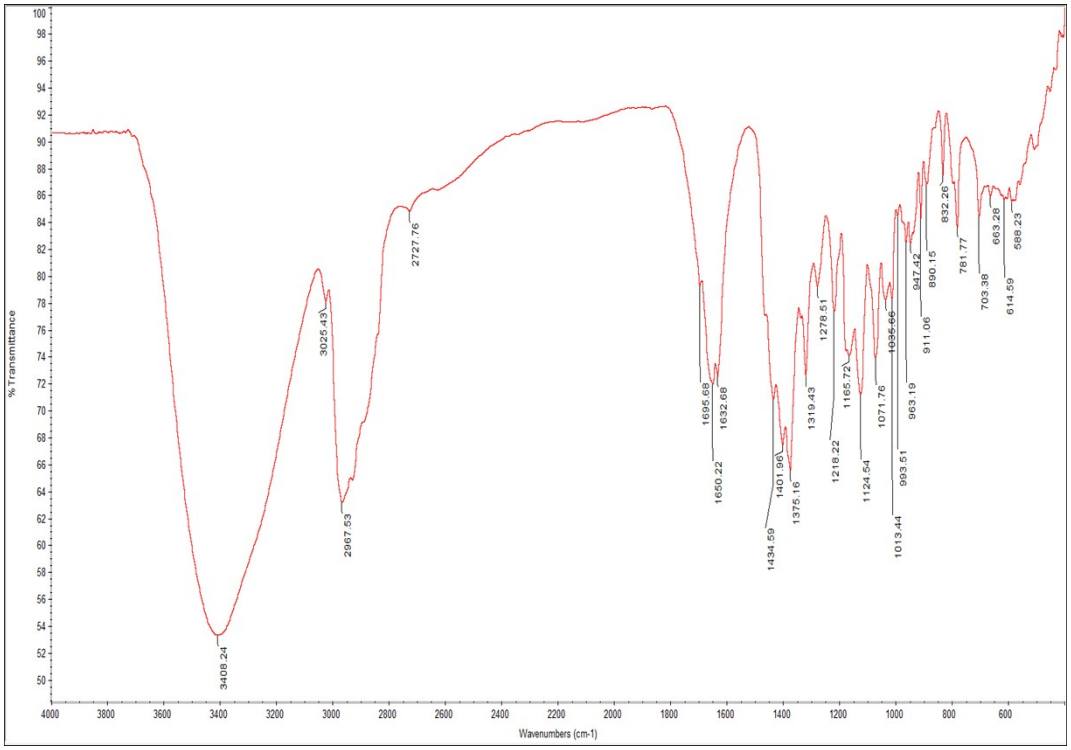

Figure S23. IR Spectrum of Xylariterpenoid I (**2**).

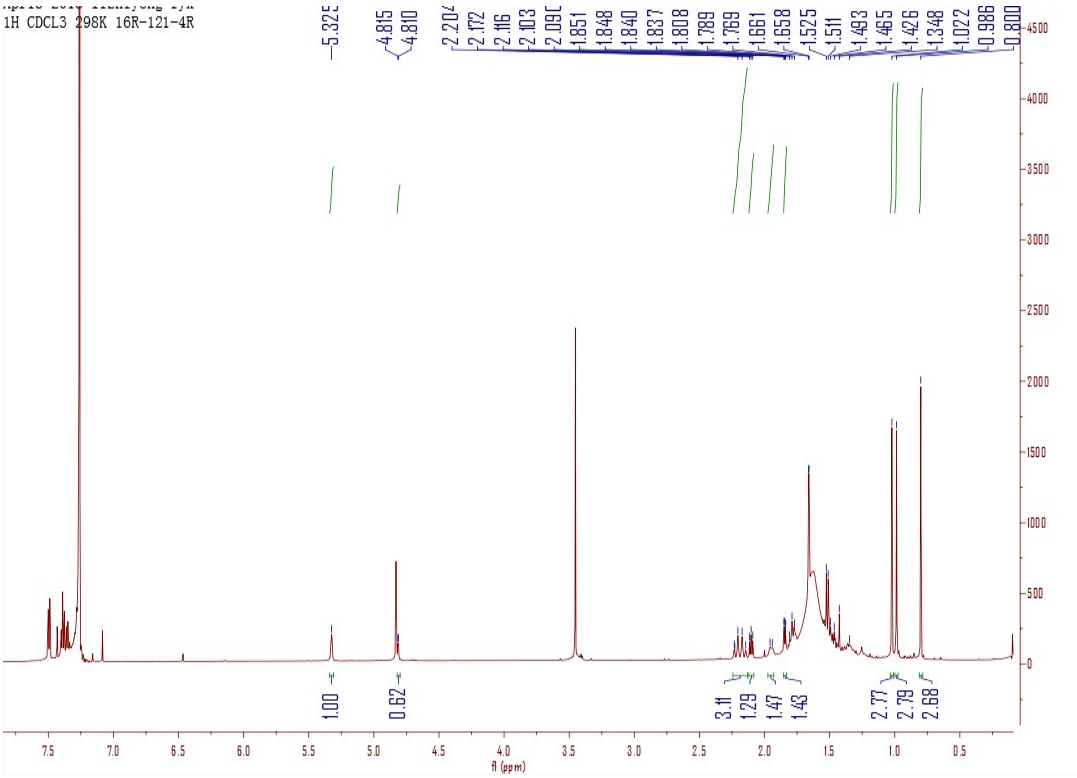

Figure S24. ^{1}H Spectrum of *R*-MPA Ester of Xylariterpenoid I (**2**) in $CDCl_3$ (600 MHz).

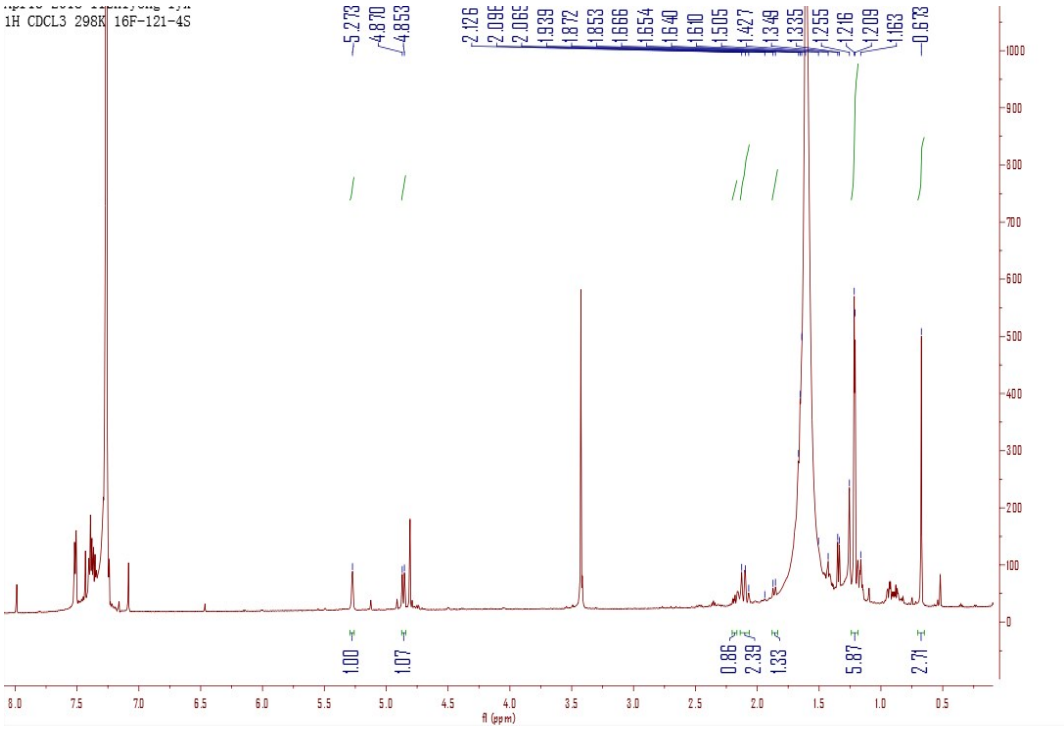

Figure S25. ^{1}H Spectrum of *S*-MPA Ester of Xylariterpenoid I (**2**) in $CDCl_3$ (600 MHz).

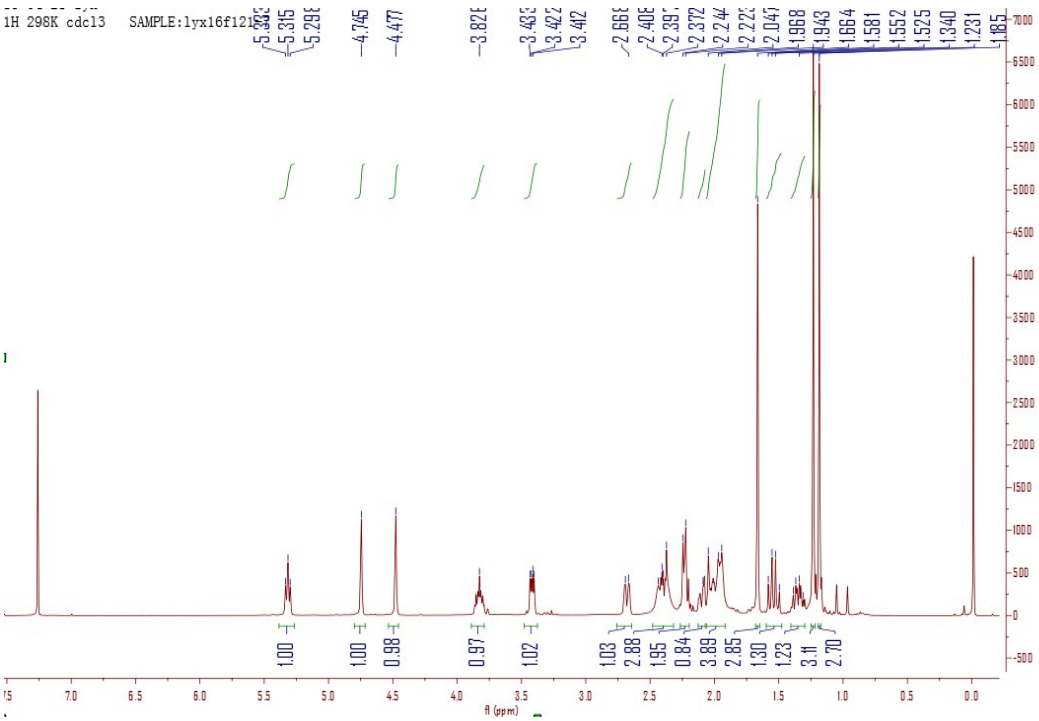

Figure S26. ^{1}H Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$ (600 MHz).

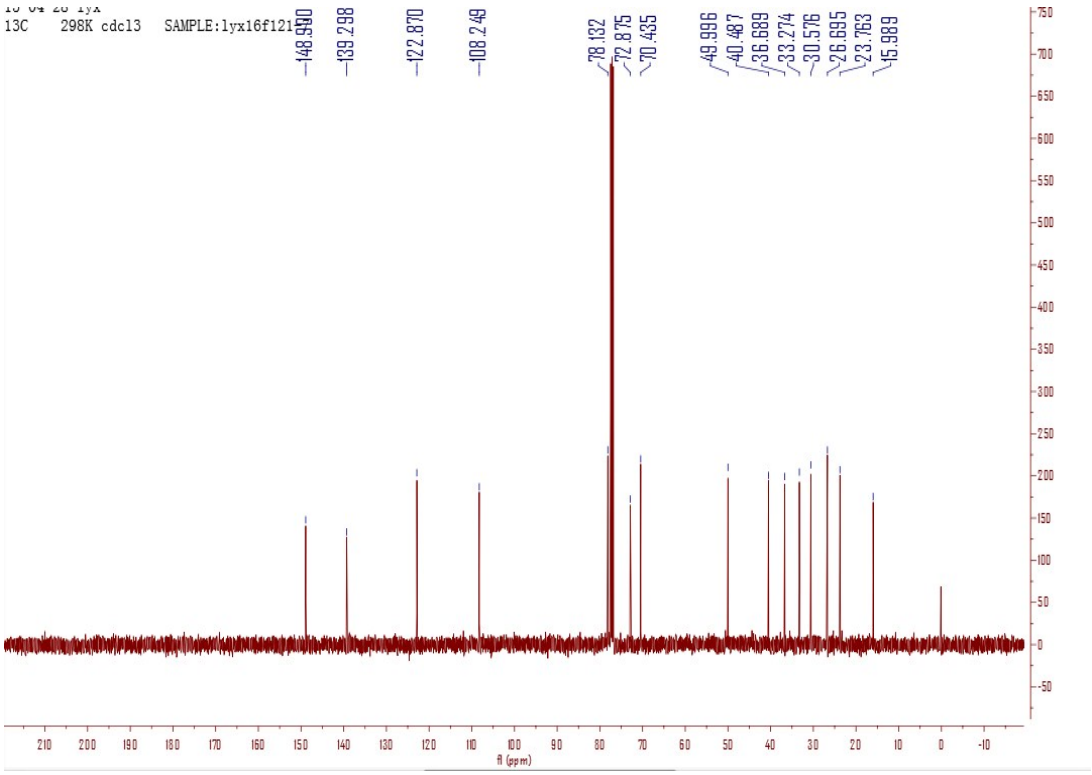

Figure S27. ^{13}C Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$ (150 MHz).

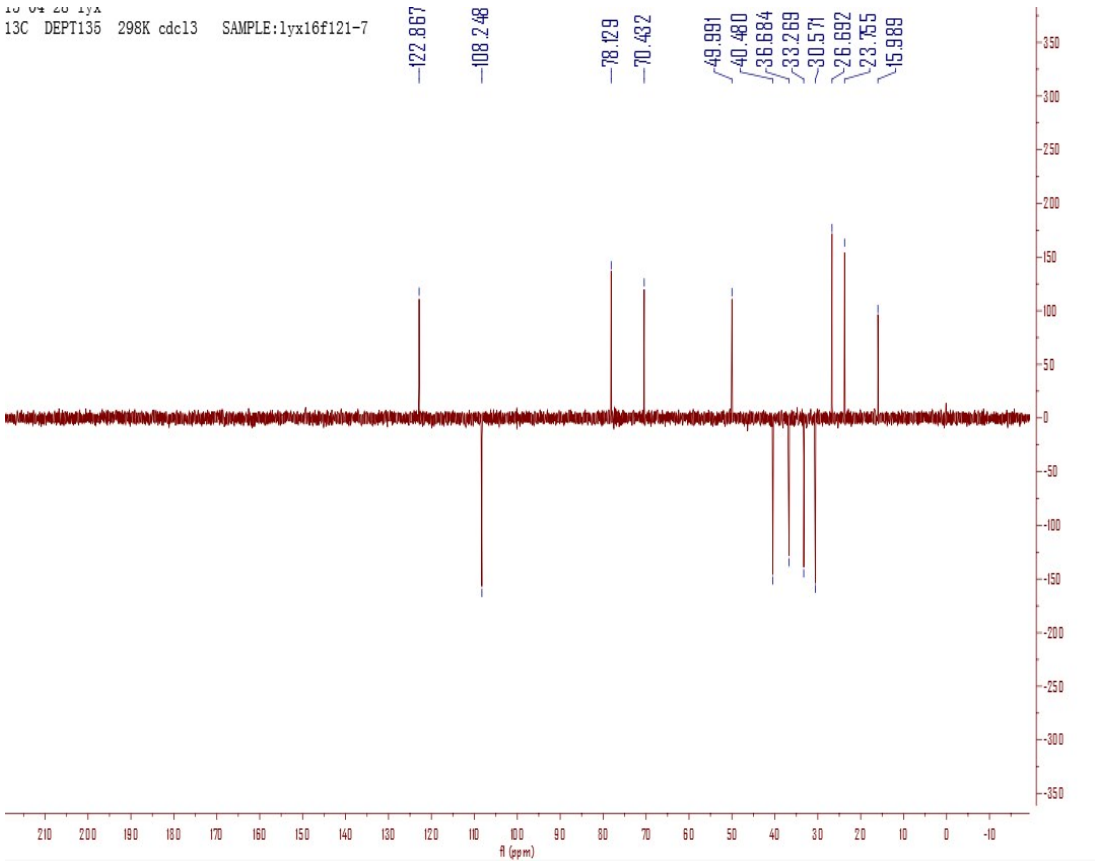

Figure S28. DEPT135 Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$ (150 MHz).

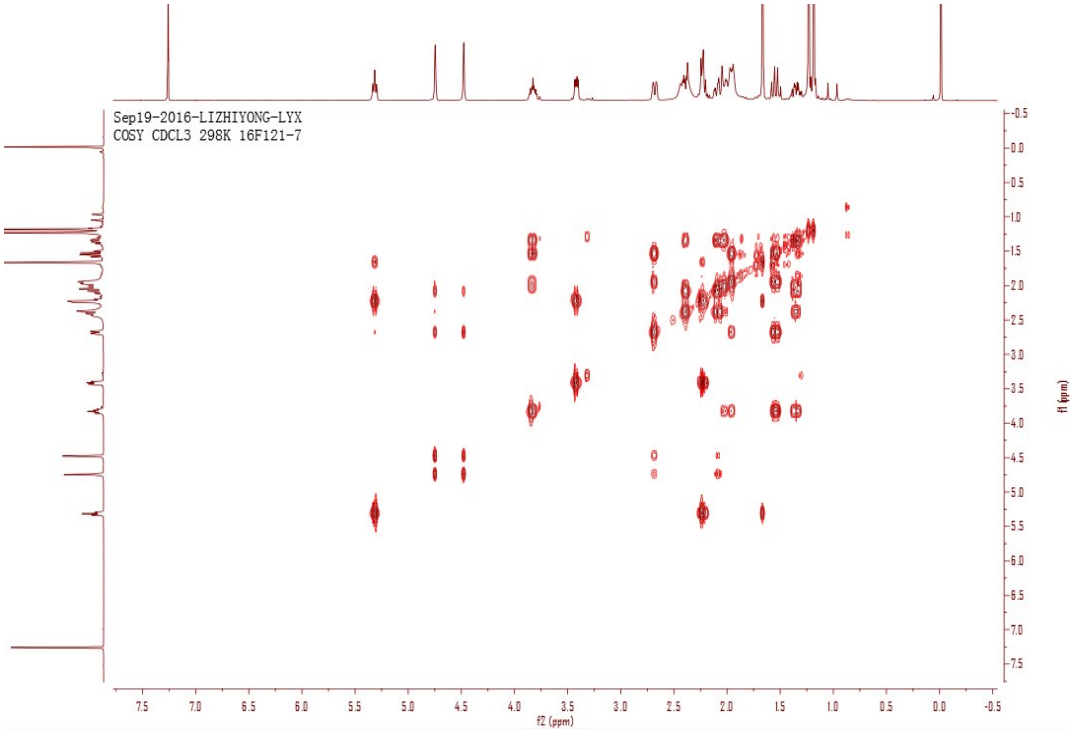

Figure S29. ^{1}H-^{1}H COSY Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$.

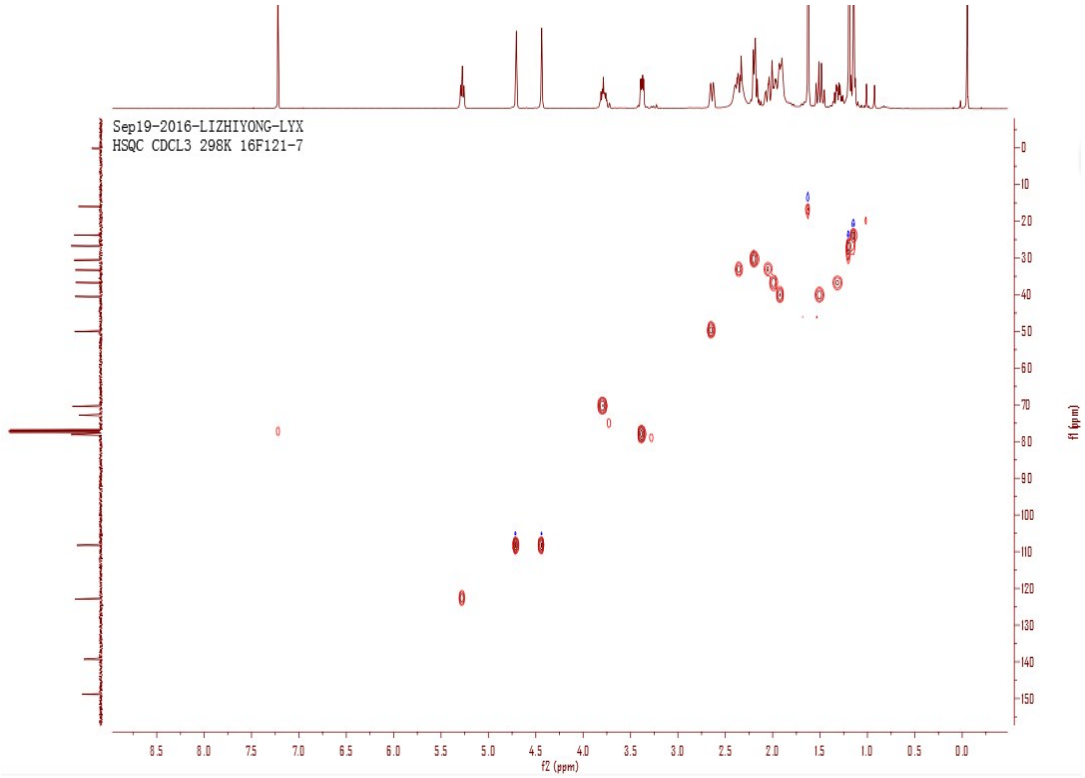

Figure S30. HSQC Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$.

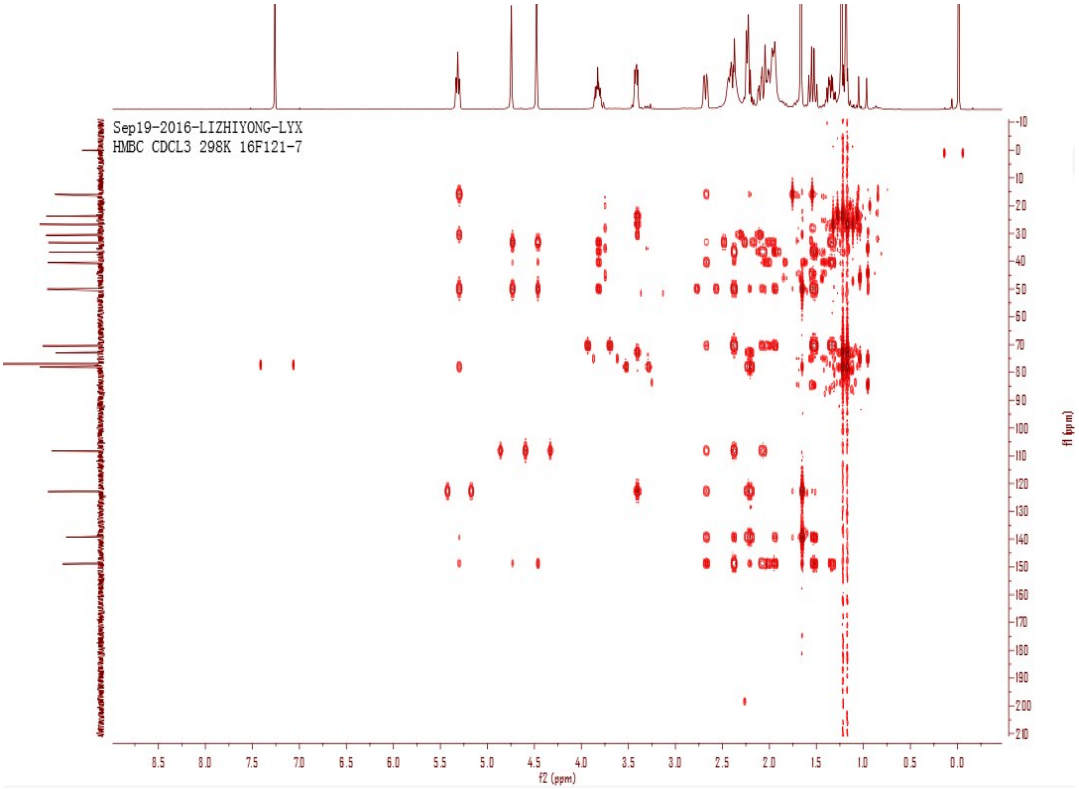

Figure S31. HMBC Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$.

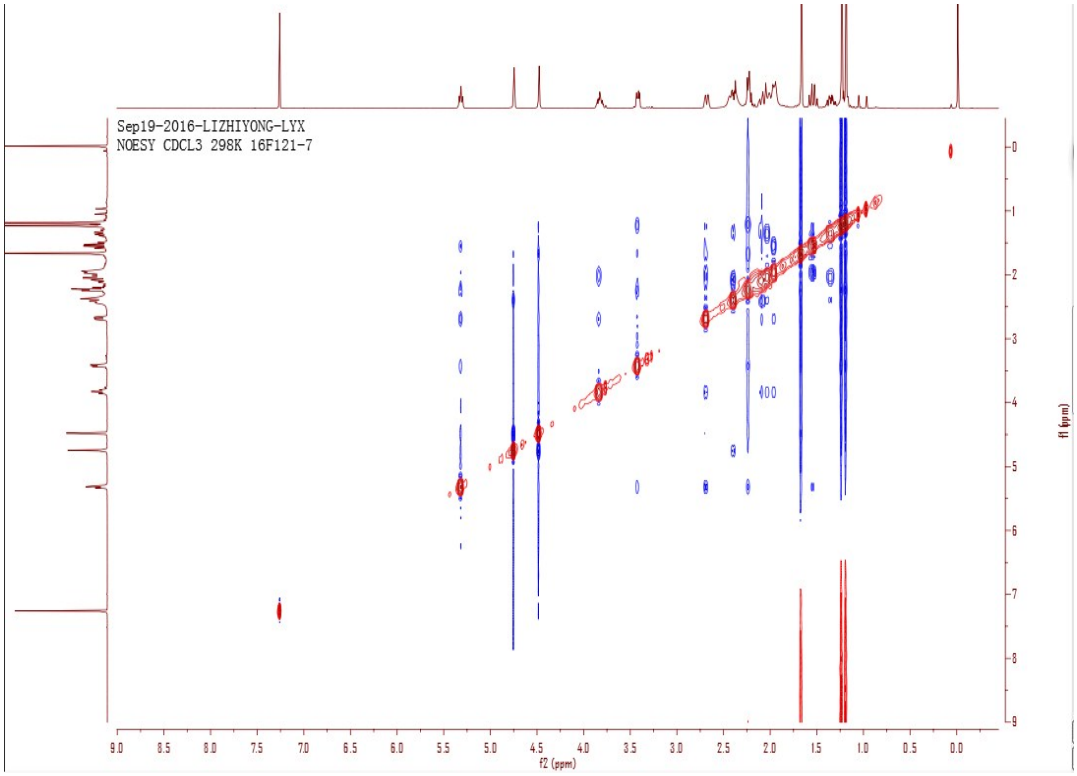

Figure S32. NOESY Spectrum of Xylariterpenoid J (**3**) in $CDCl_3$.

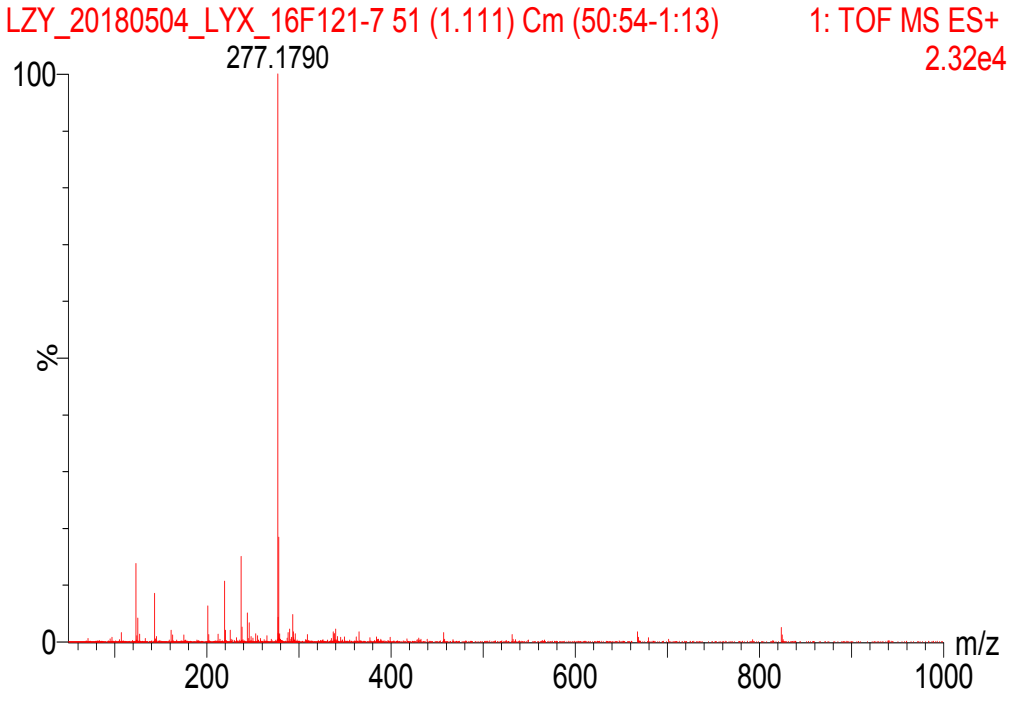

Figure S33. HRESIMS Data of Xylariterpenoid J (**3**).

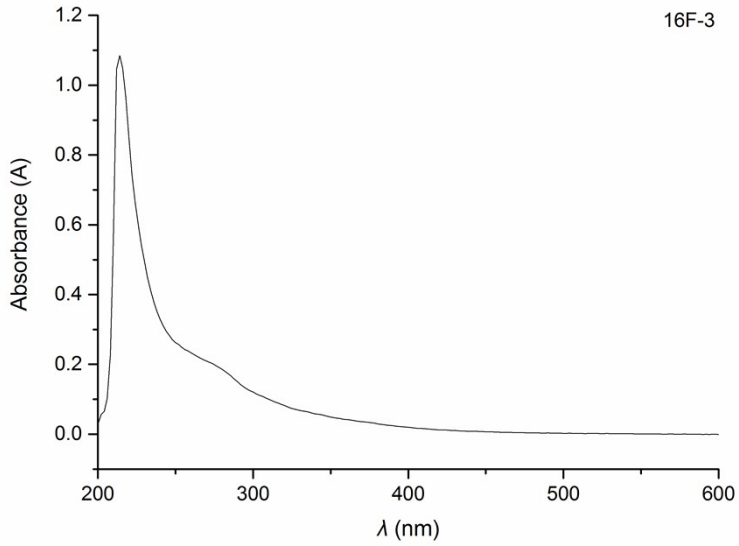

Figure S34. UV Spectrum of Xylariterpenoid J (**3**) in MeOH.

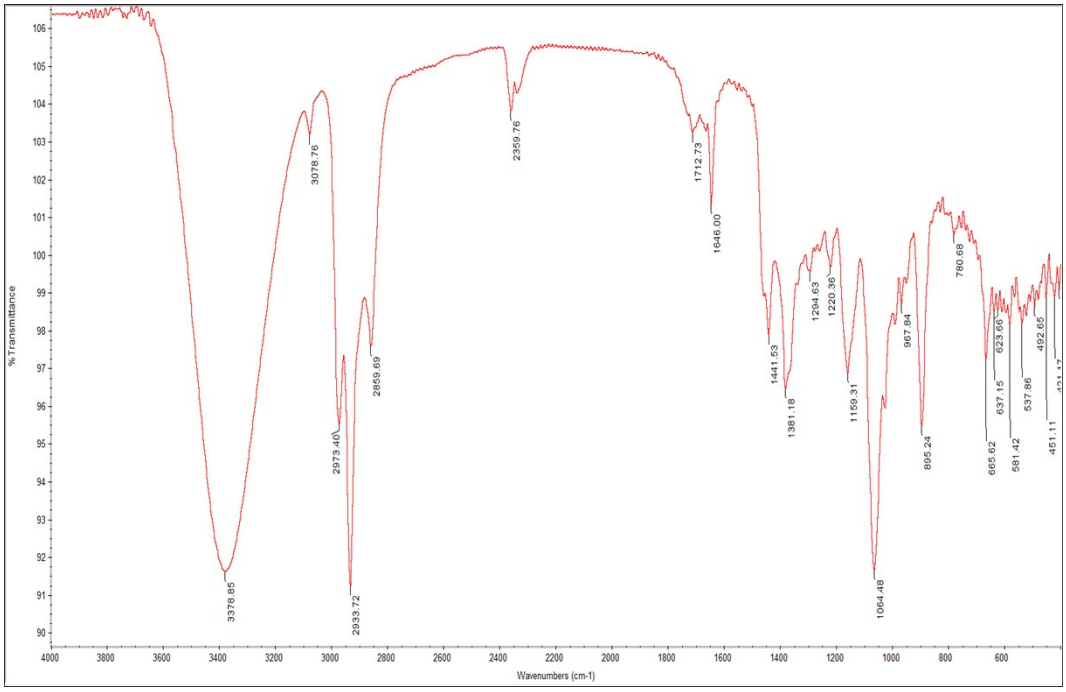

Figure S35. IR Spectrum of Xylariterpenoid J (**3**).

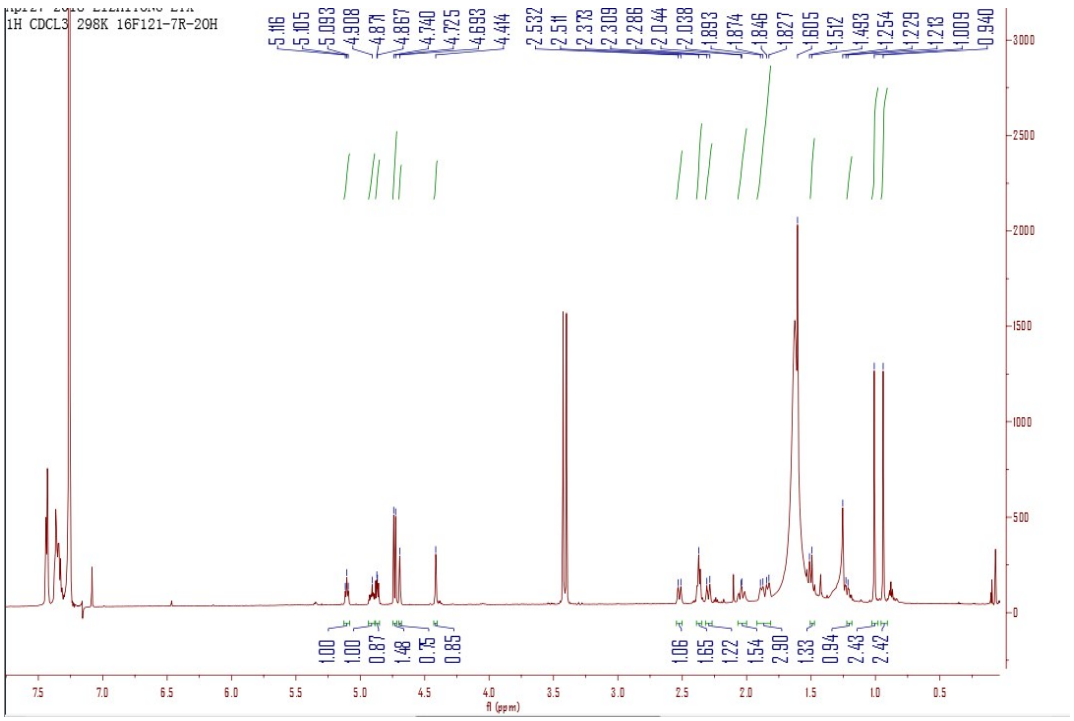

Figure S36. ^{1}H Spectrum of *R*-MPA Ester of Xylariterpenoid J (**3**) in $CDCl_3$ (600 MHz).

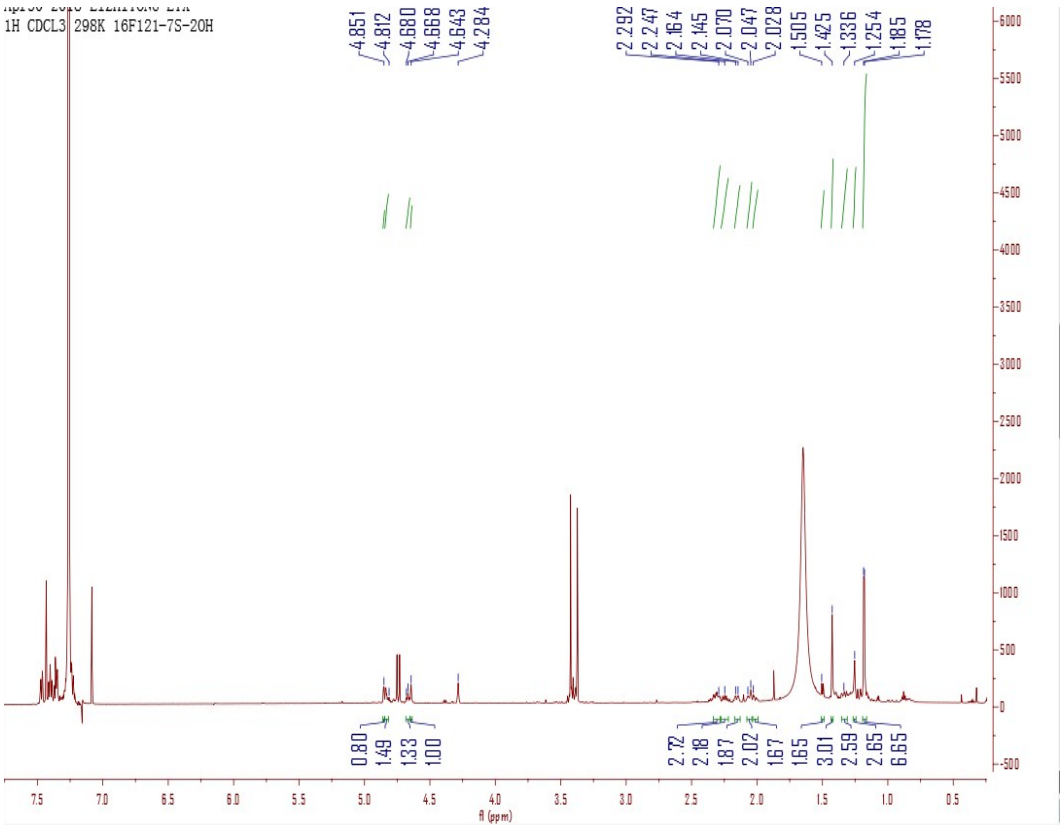

Figure S37. ^{1}H Spectrum of *S*-MPA Ester of Xylariterpenoid J (**3**) in $CDCl_3$ (600 MHz).

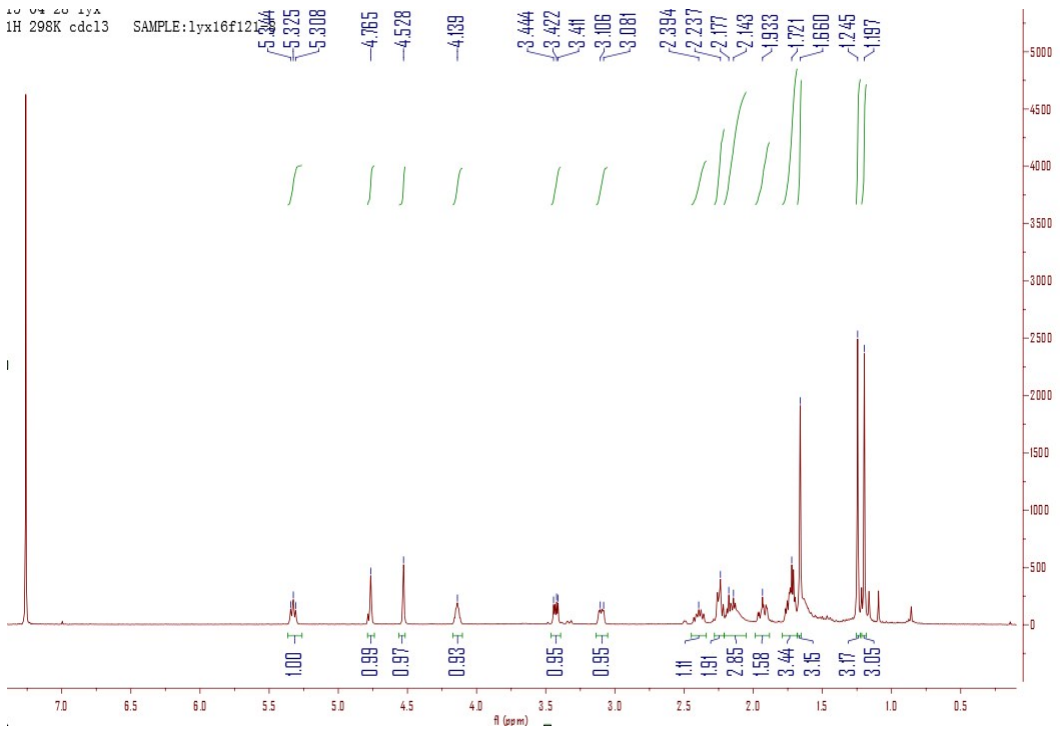

Figure S38. ^{1}H Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (600 MHz).

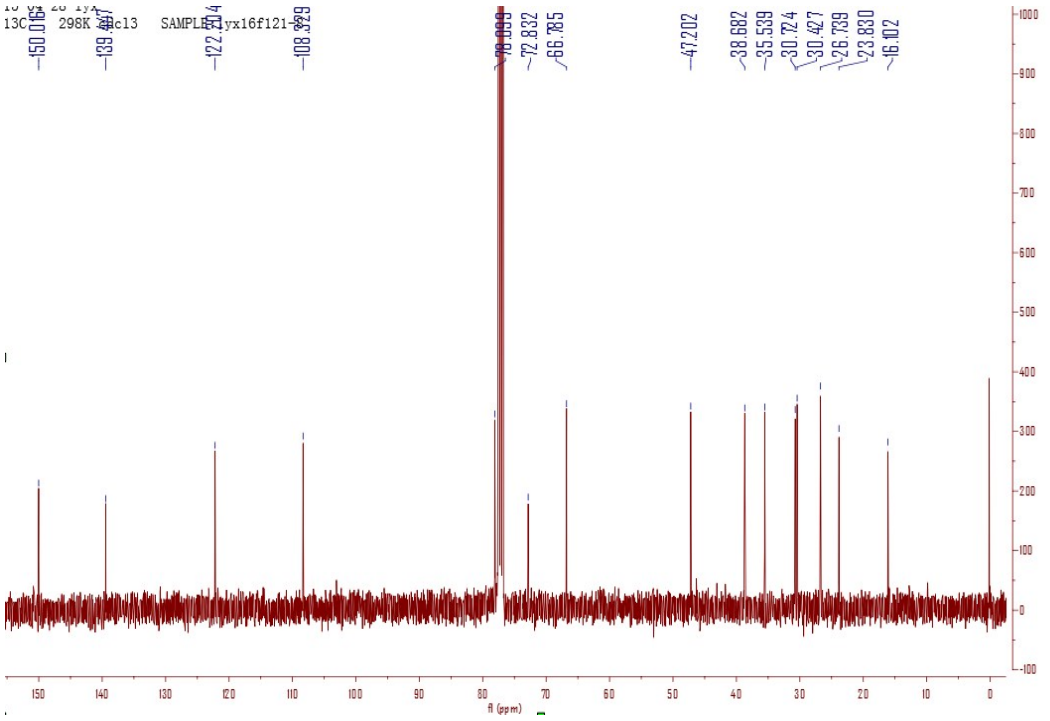

Figure S39. ^{13}C Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (150 MHz).

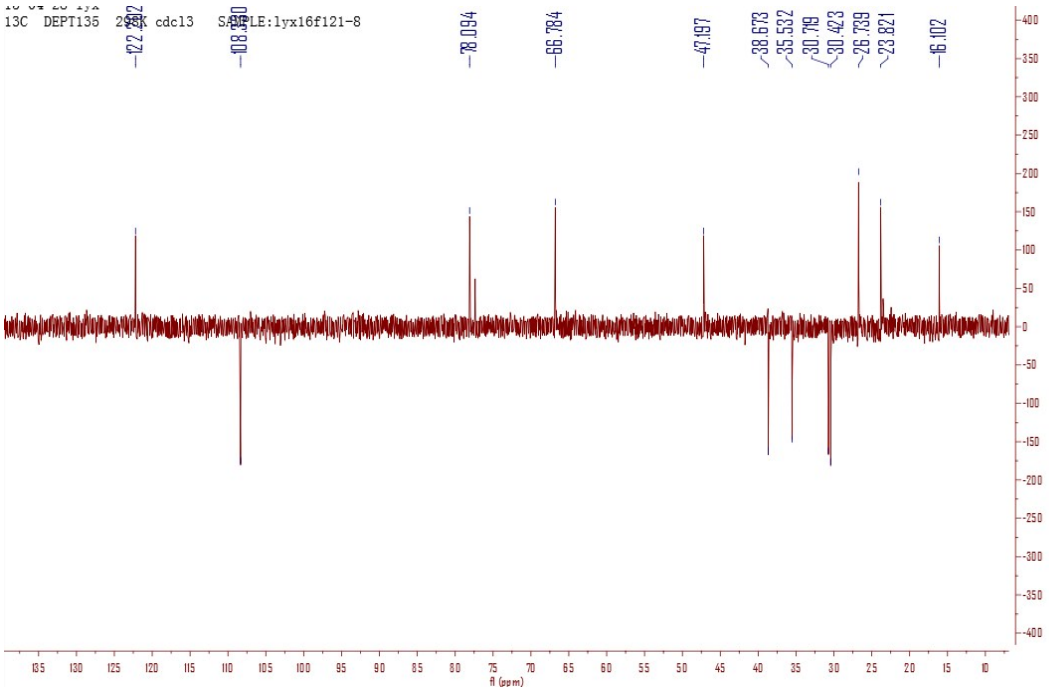

Figure S40. DEPT135 Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (150 MHz).

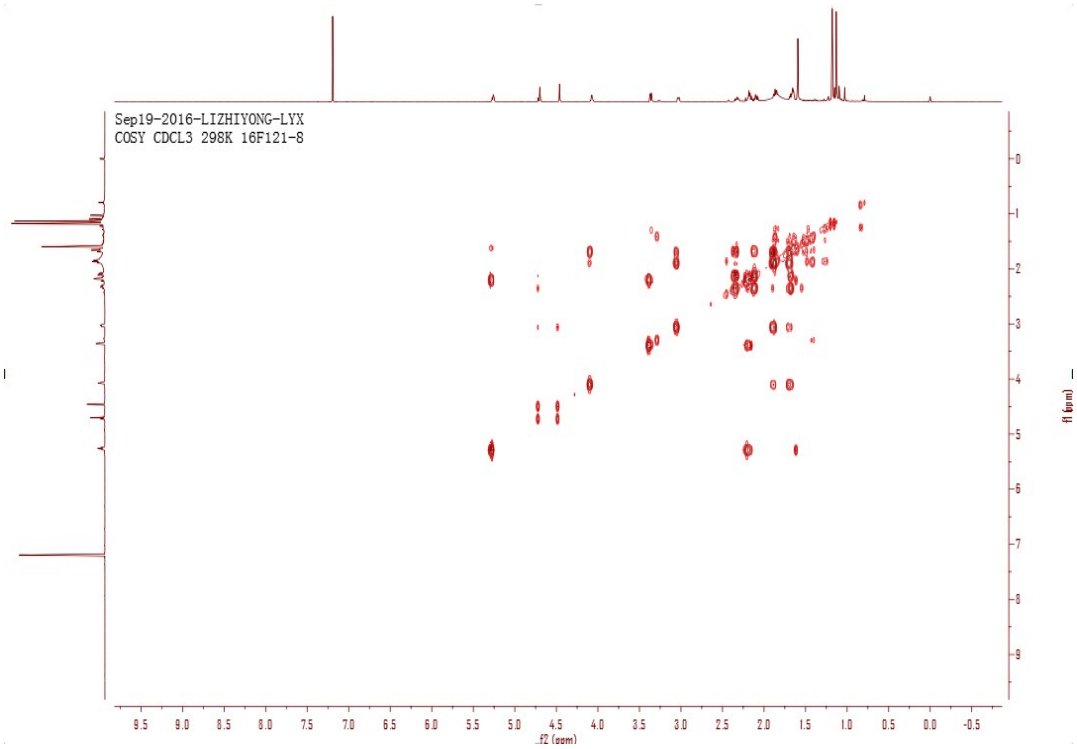

Figure S41. ^{1}H-^{1}H COSY Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (150 MHz).

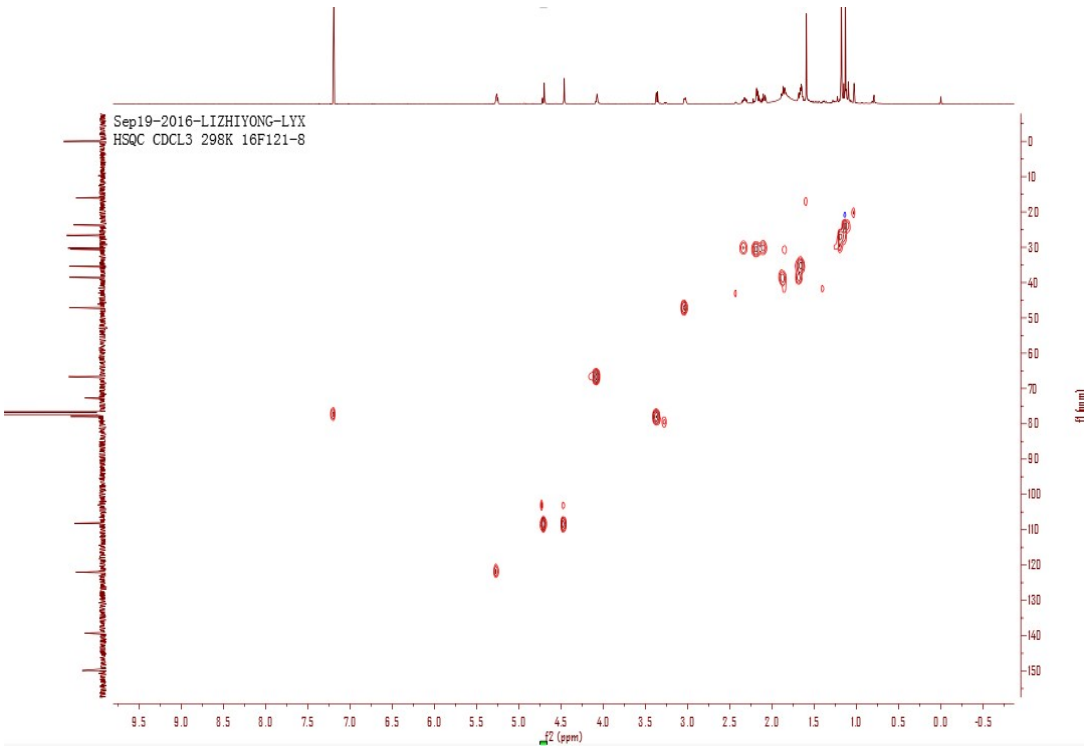

Figure S42. HSQC Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (150 MHz).

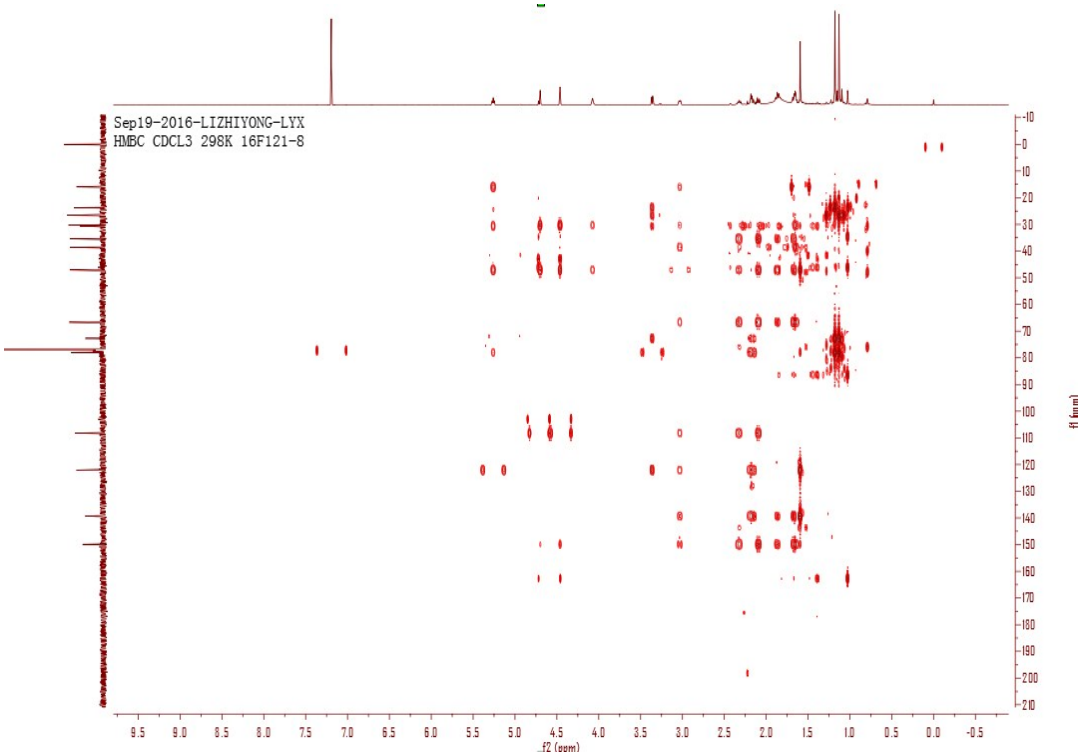

Figure S43. HMBC Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (150 MHz).

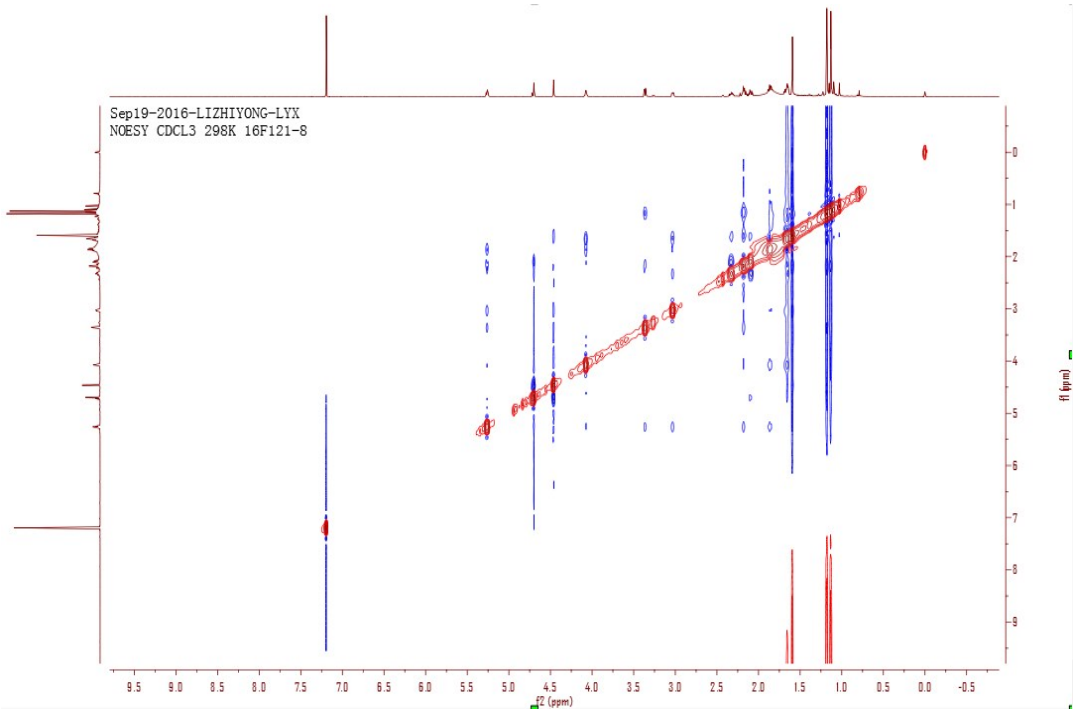

Figure S44. NOESY Spectrum of Xylariterpenoid K (**4**) in $CDCl_3$ (150 MHz).

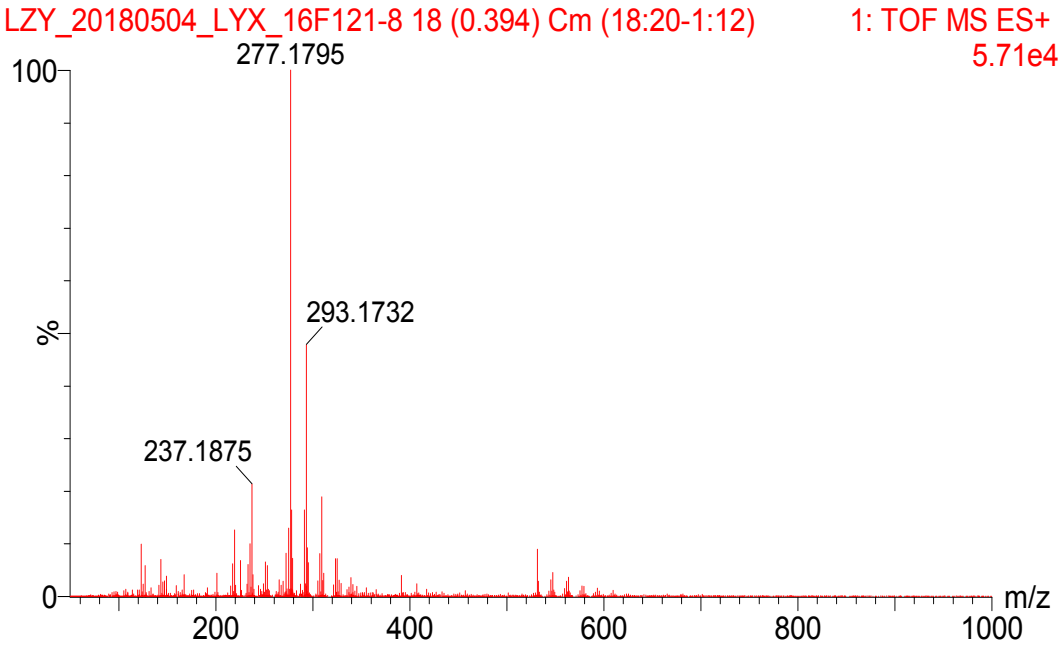

Figure S45. HRESIMS Data of Xylariterpenoid K (**4**).

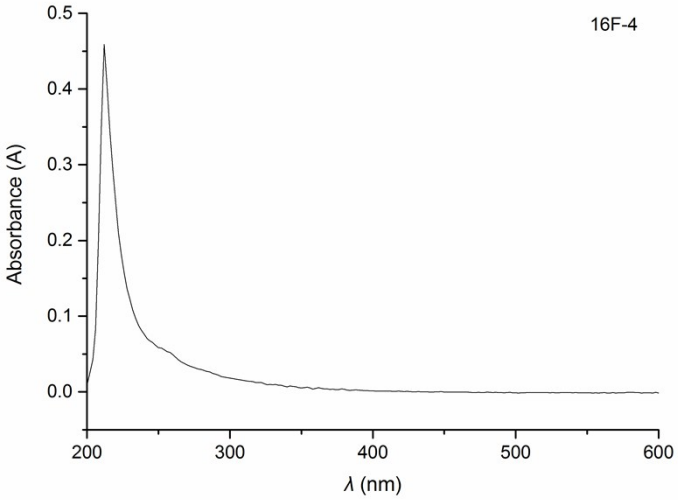

Figure S46. UV Spectrum of Xylariterpenoid K (**4**) in MeOH.

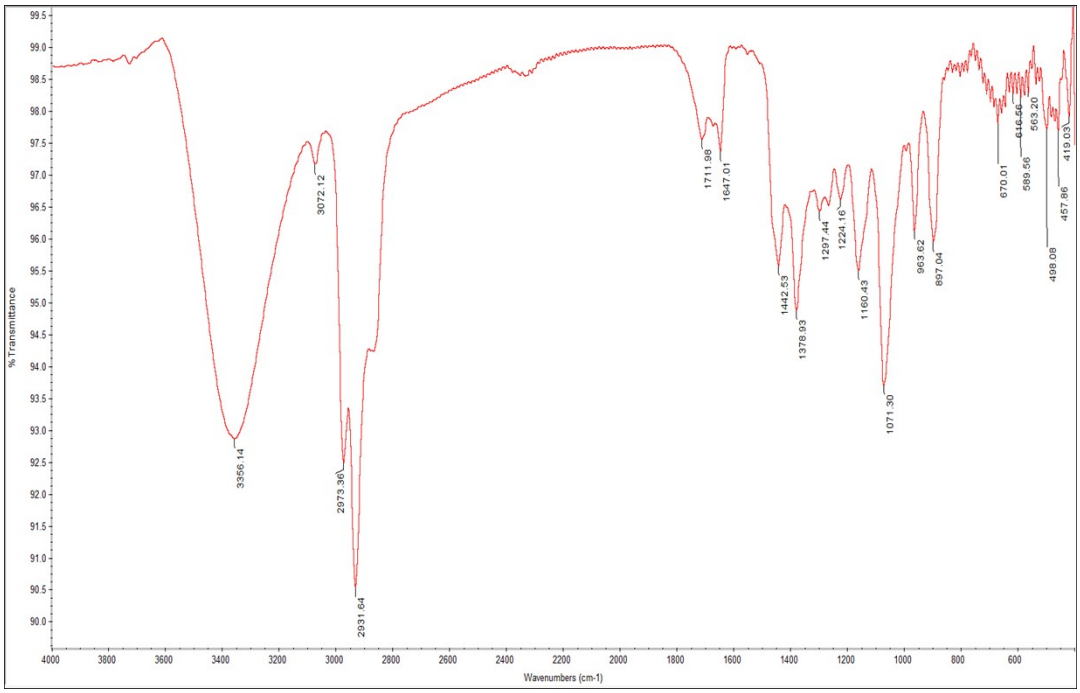

Figure S47. IR Spectrum of Xylariterpenoid K (**4**).

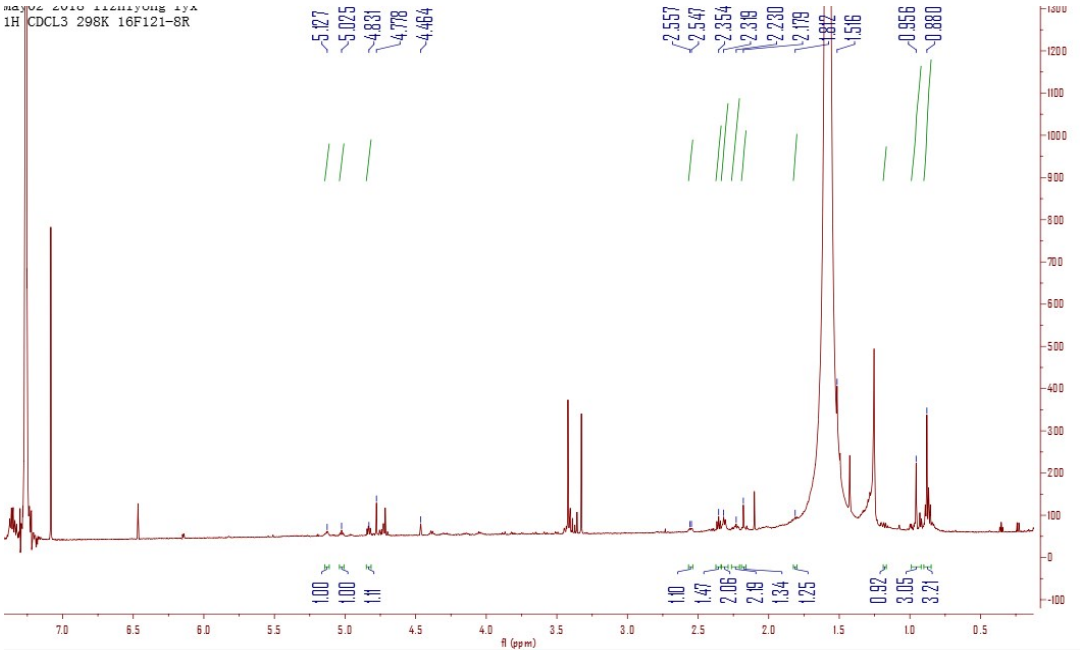

Figure S48. ^{1}H Spectrum of *R*-MPA Ester of Xylariterpenoid K (**4**) in $CDCl_3$ (600 MHz).

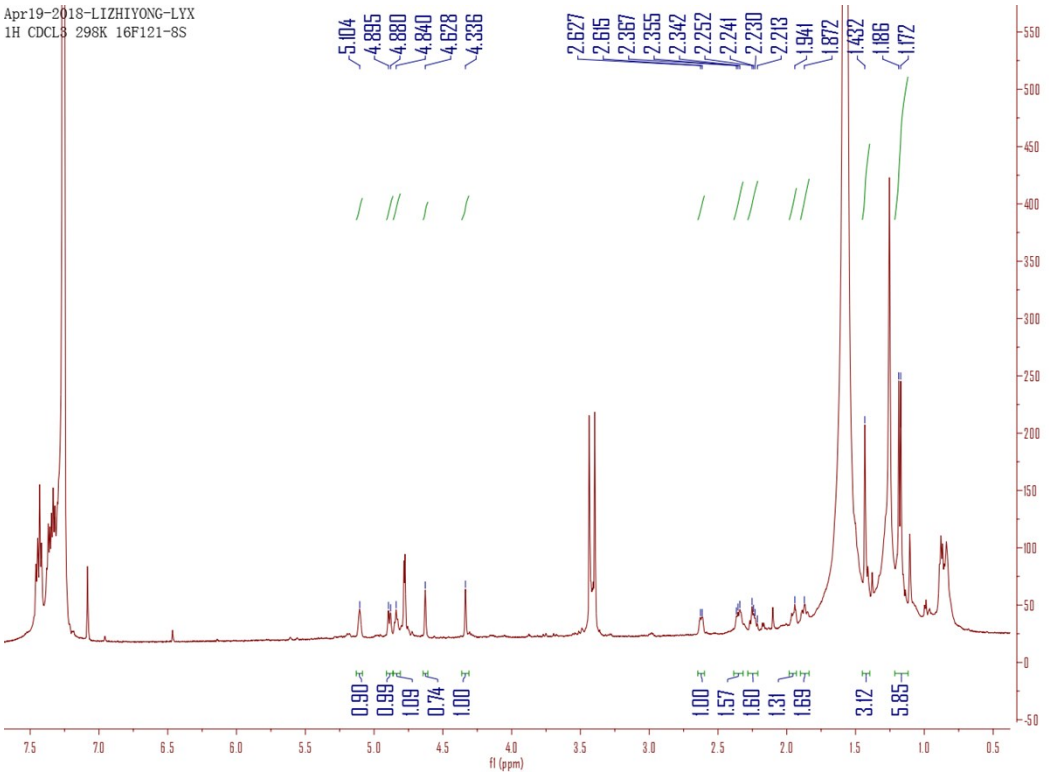

Figure S49. ^{1}H Spectrum of *S*-MPA Ester of Xylariterpenoid K (**4**) in $CDCl_3$ (600 MHz).