

# Supplementary materials

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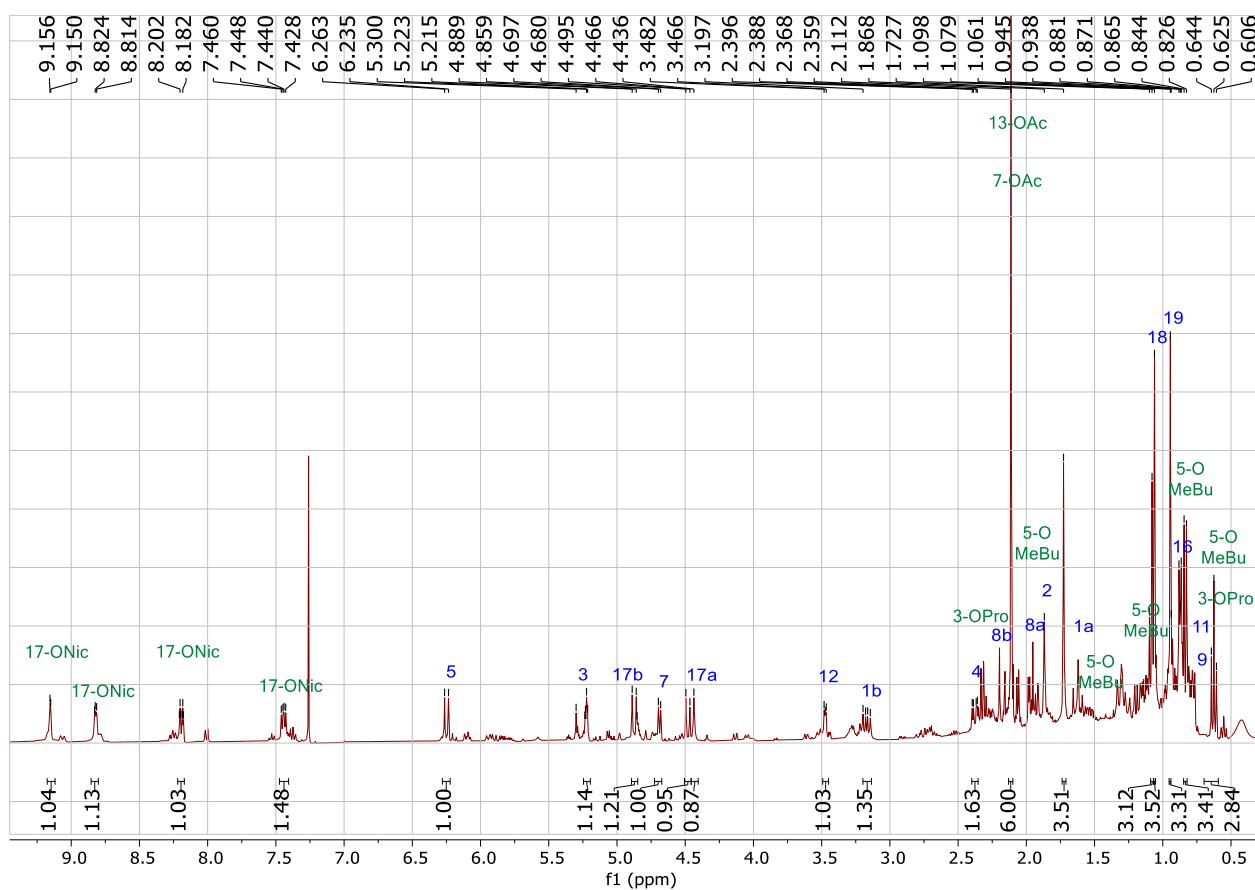


Figure S1.  $^1\text{H}$  NMR (400 MHz) spectrum of compound 1

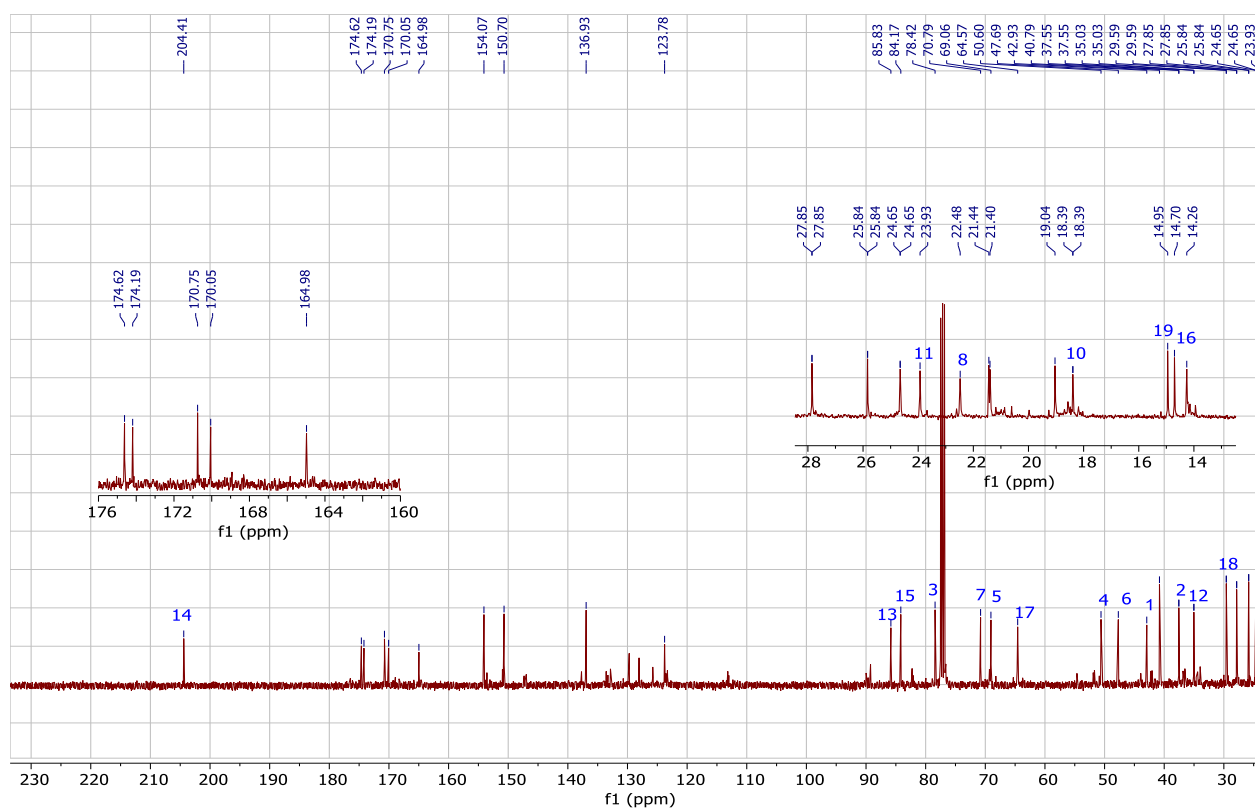
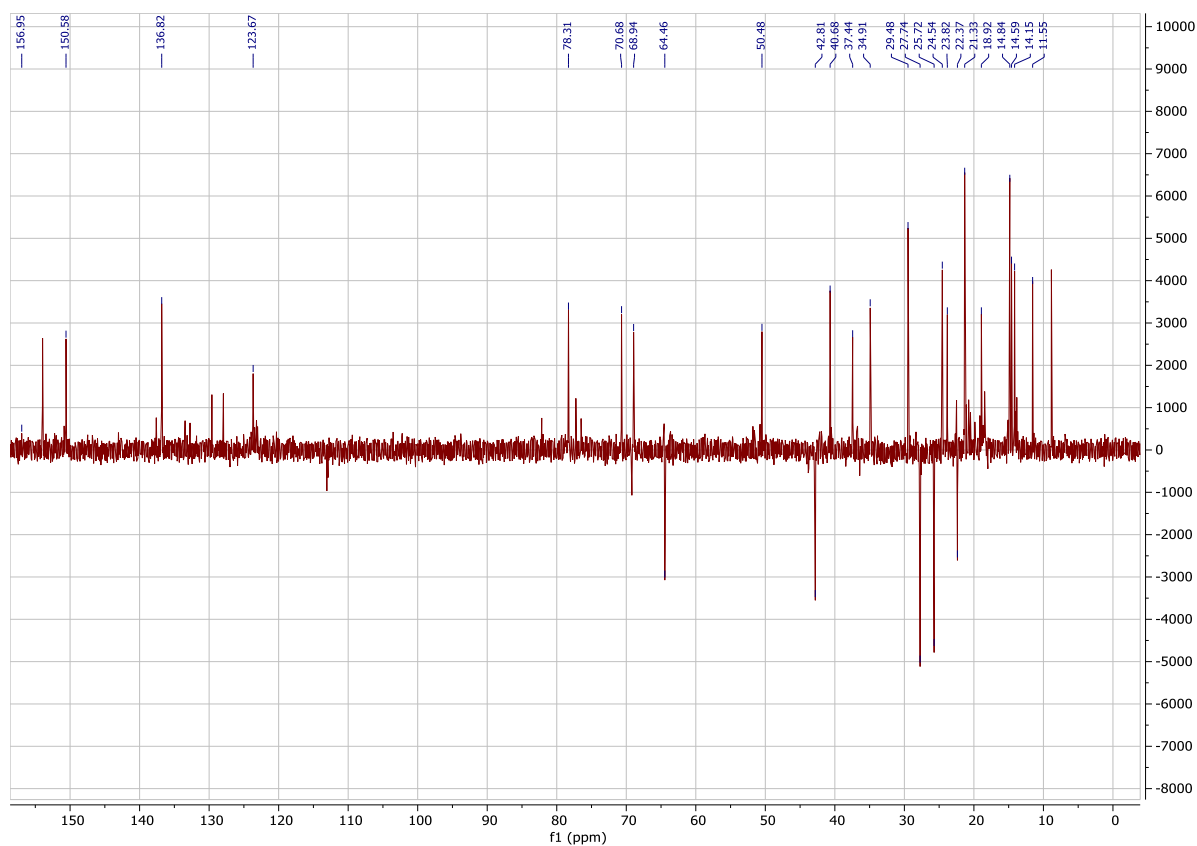
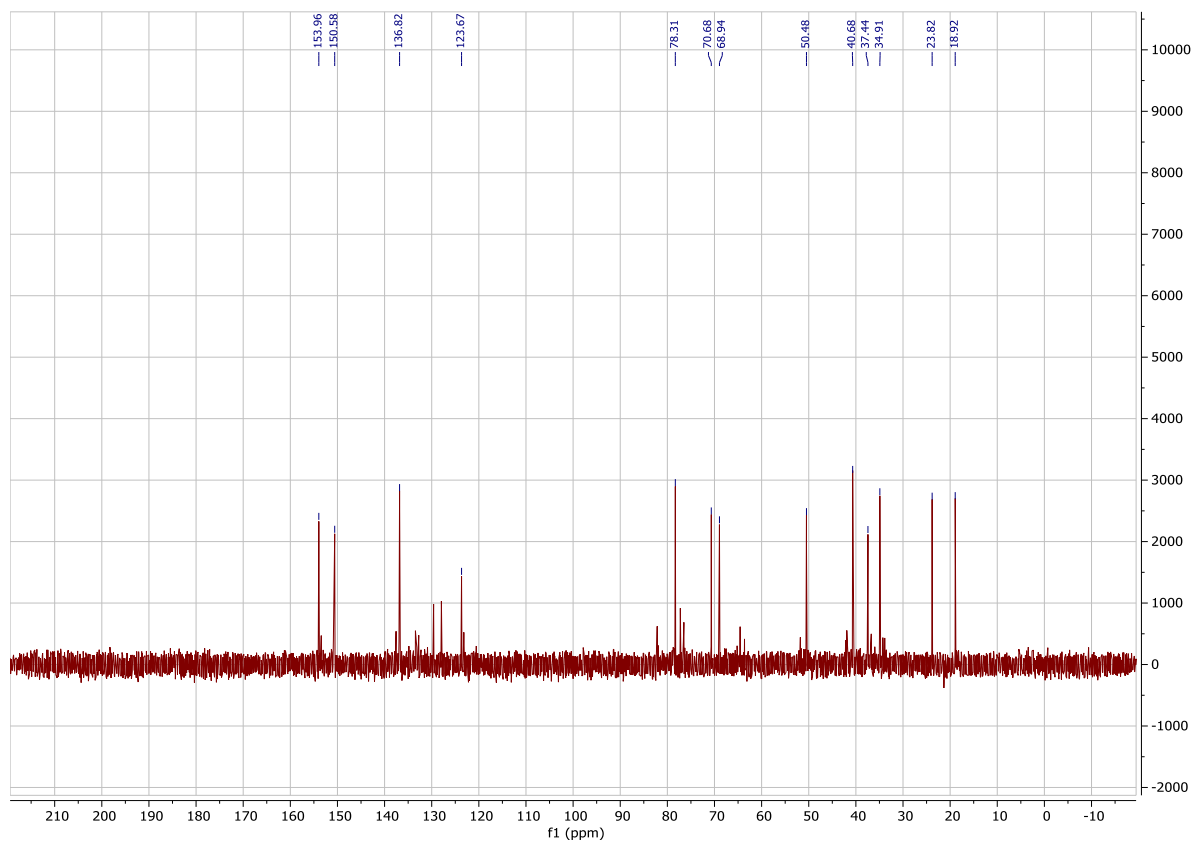


Figure S2.  $^{13}\text{C}$  NMR (100 MHz) spectrum of compound 1



**Figure S3.**  $^{13}\text{C}$  DEPT135 (100 MHz) spectrum of compound **1**



**Figure S4.**  $^{13}\text{C}$  DEPT90 (100 MHz) spectrum of compound **1**

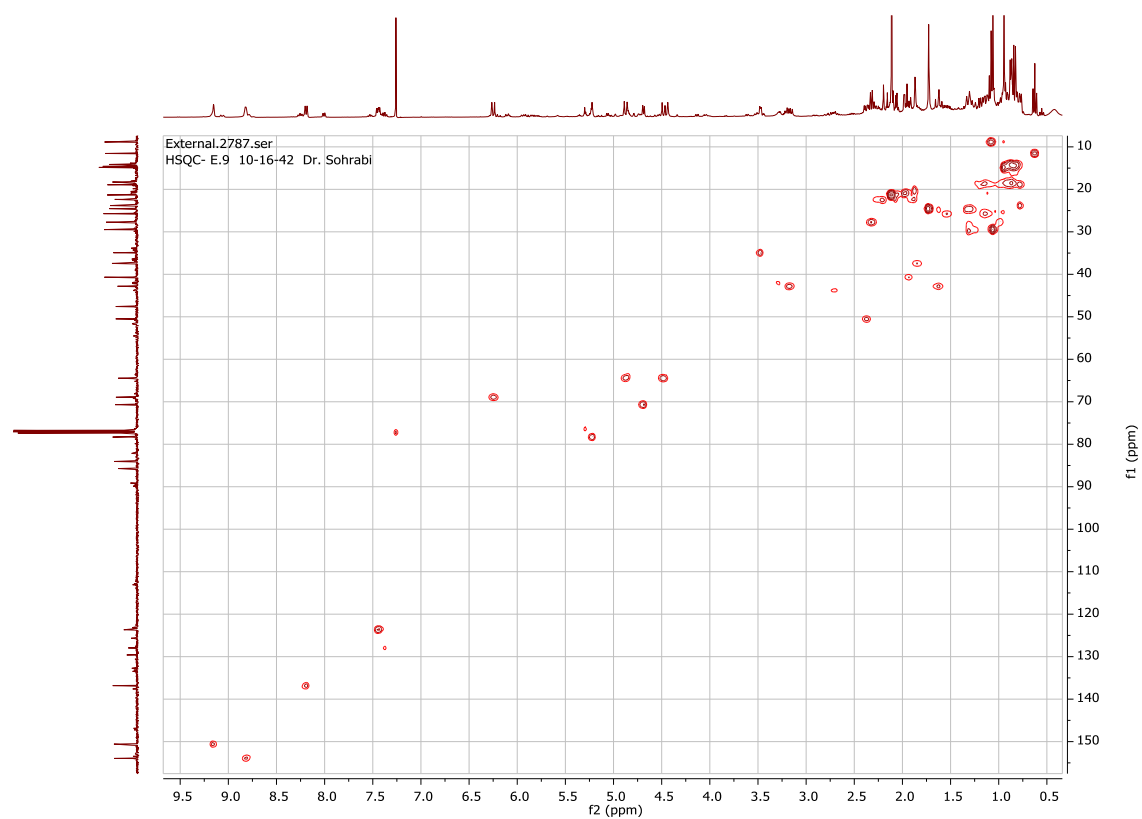


Figure S5. HSQCGP (400 MHz) spectrum of compound 1

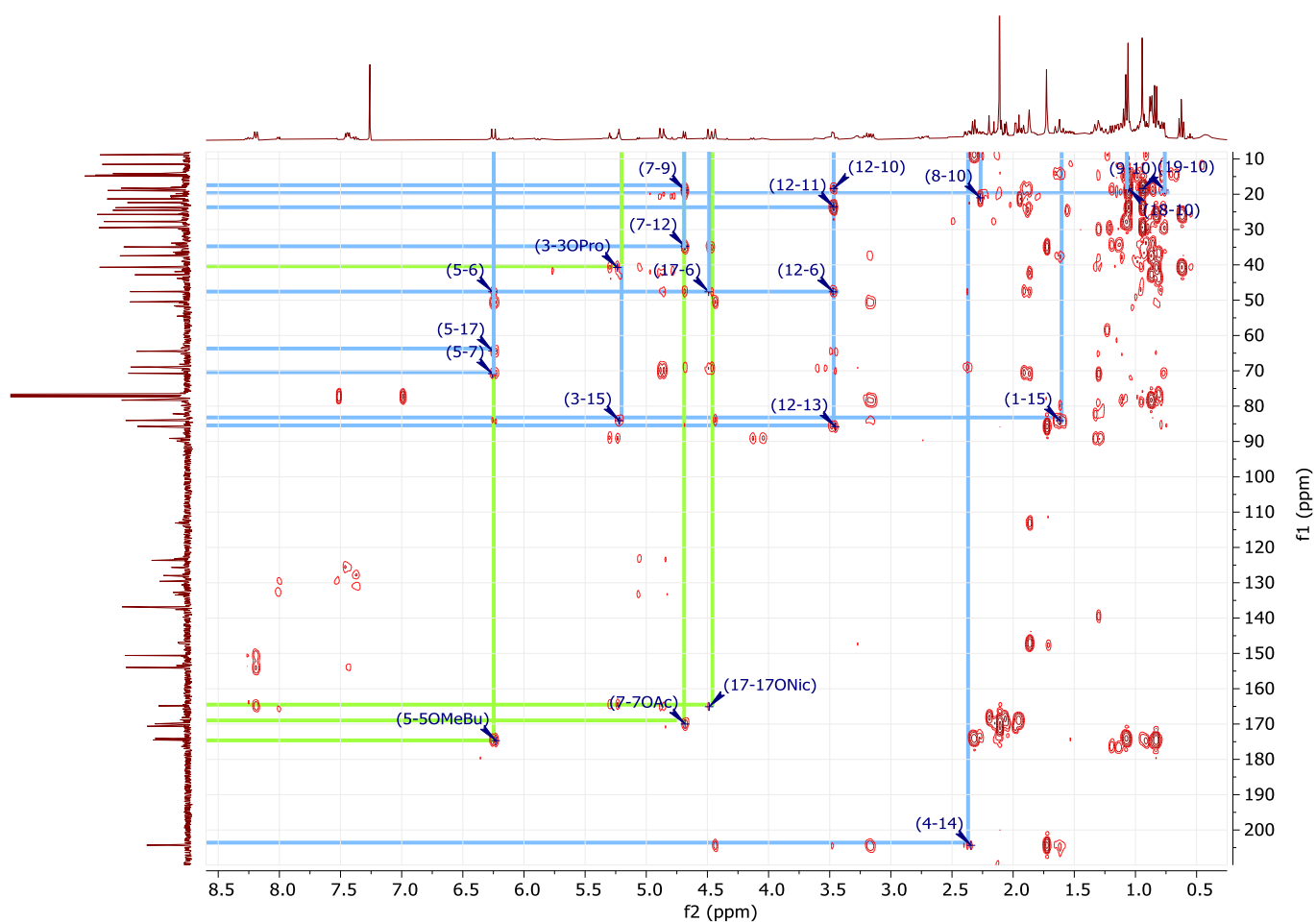


Figure S6. HMBCGP (400 MHz) spectrum of compound 1

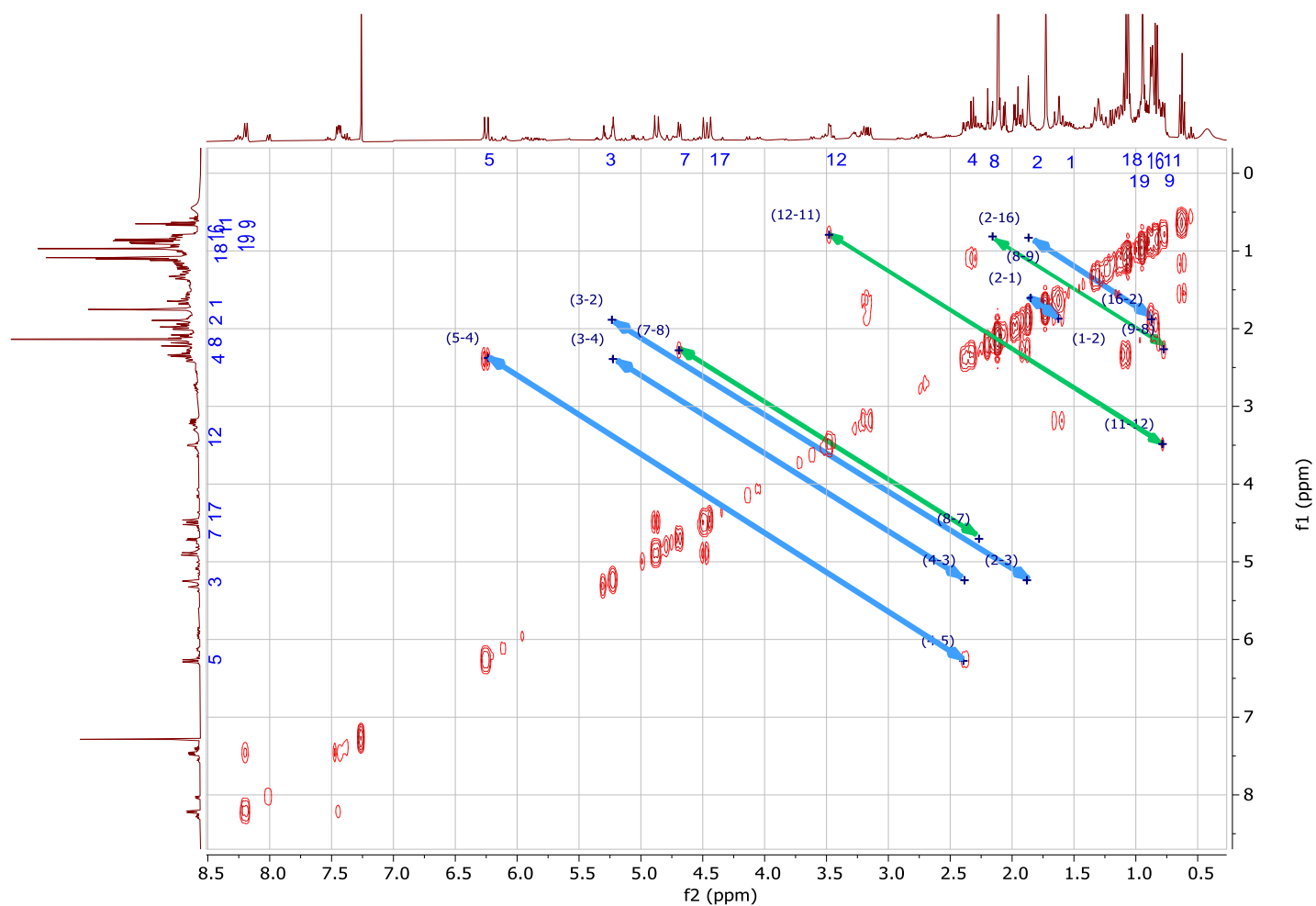
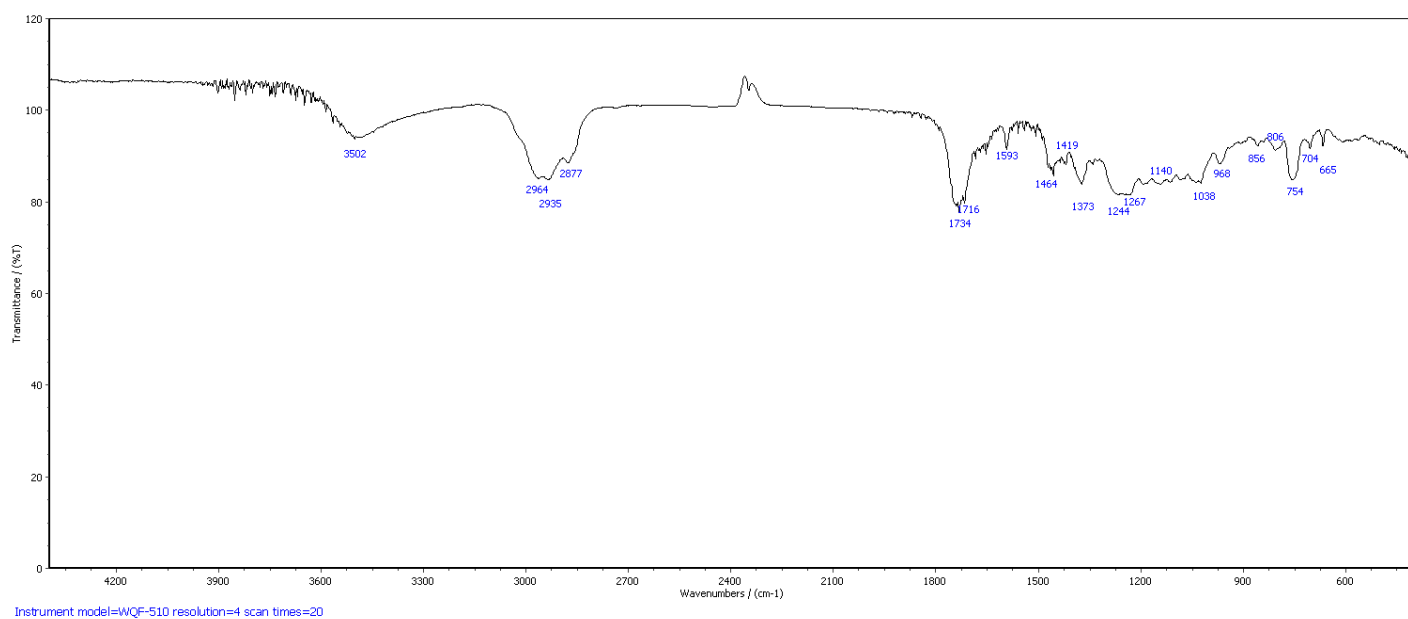


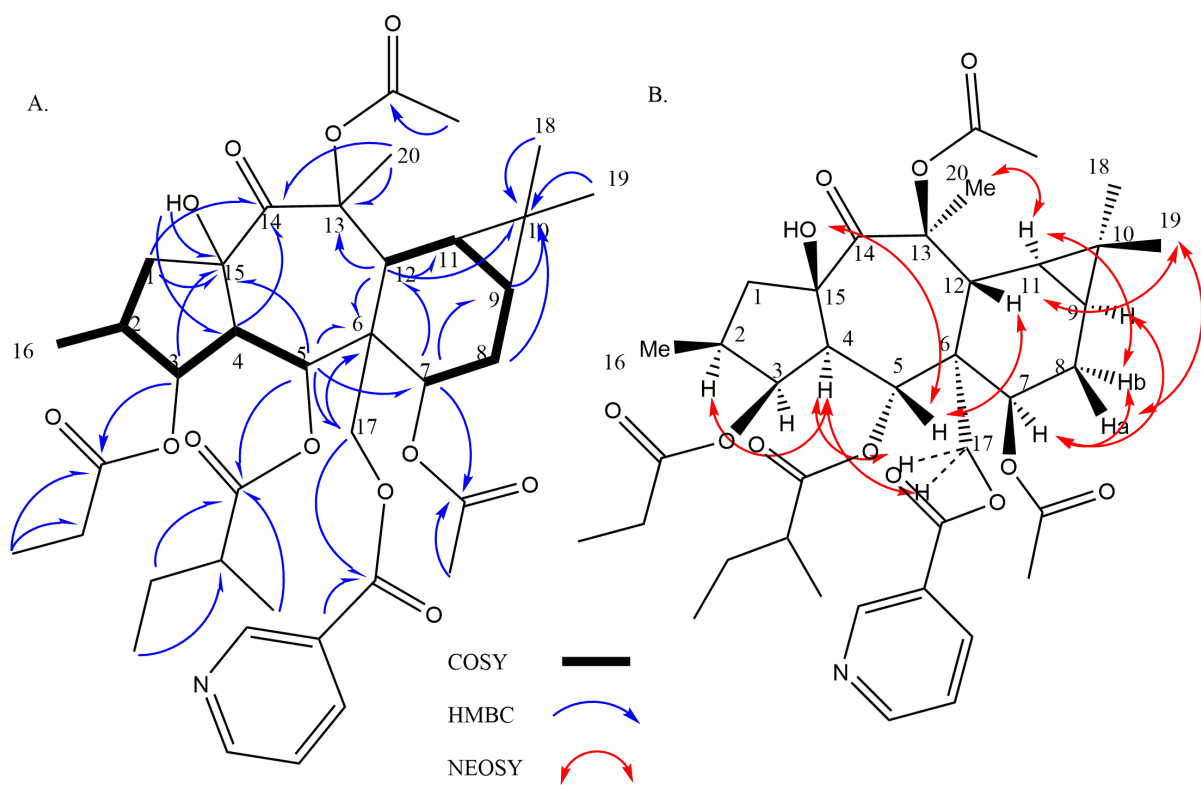
Figure S7. DQF-COSY (400 MHz) spectrum of compound **1**



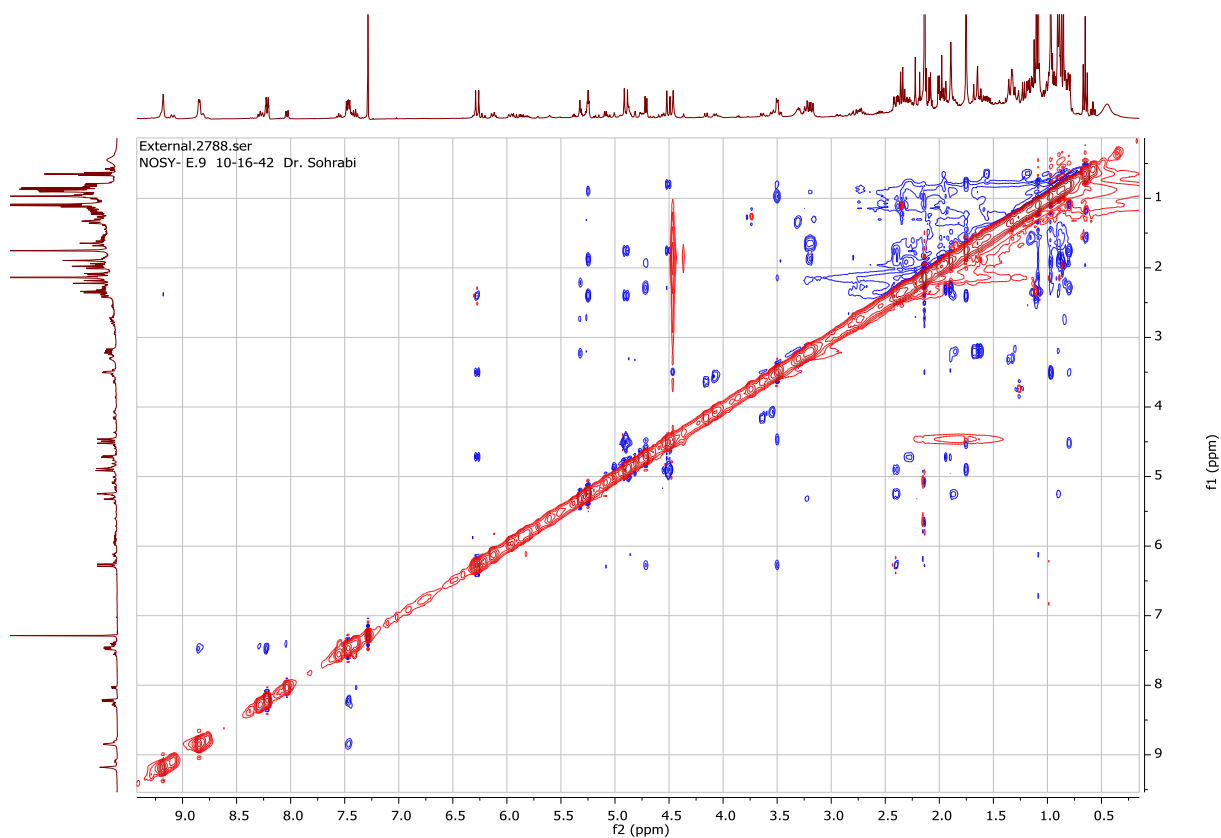
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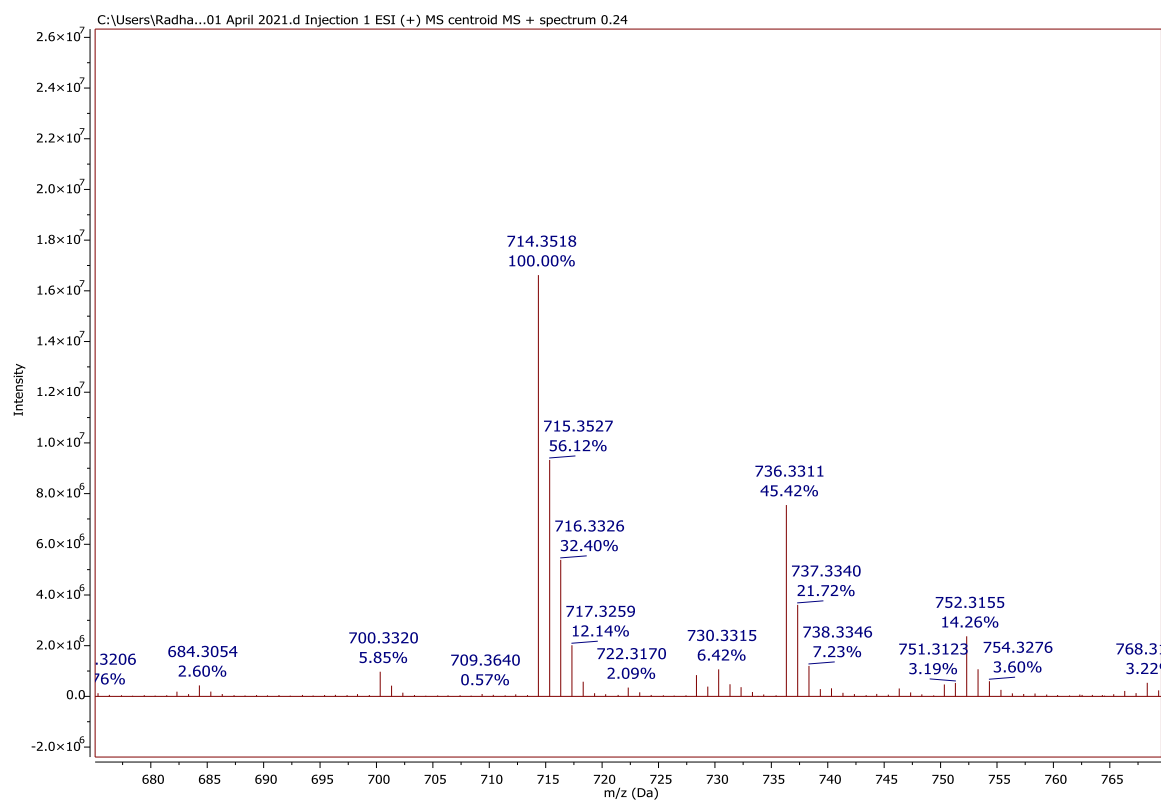
Figure S8. FT-IR spectrum of compound **1**



**Figure S9.**(A) Selected HMBC and COSY correlations and (B) representation of key NOESY cross peaks of compound **1**

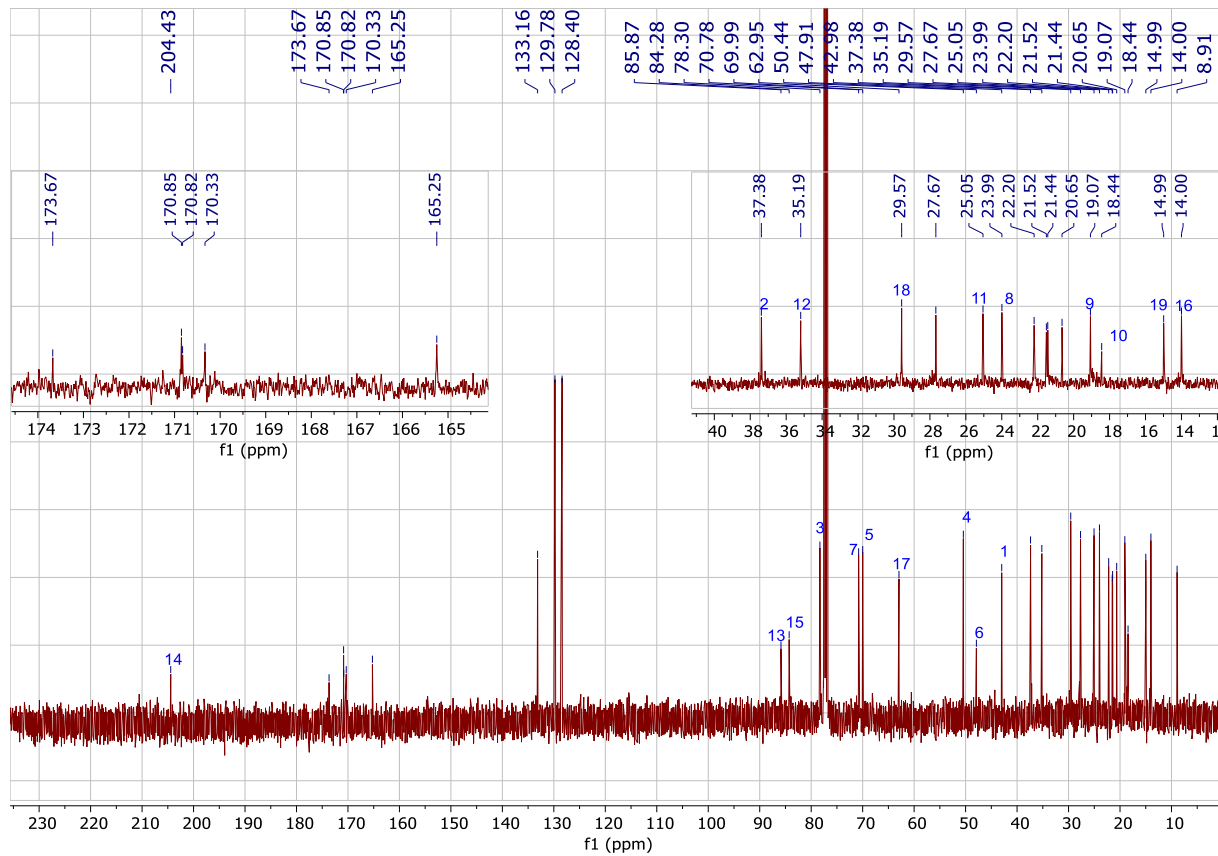
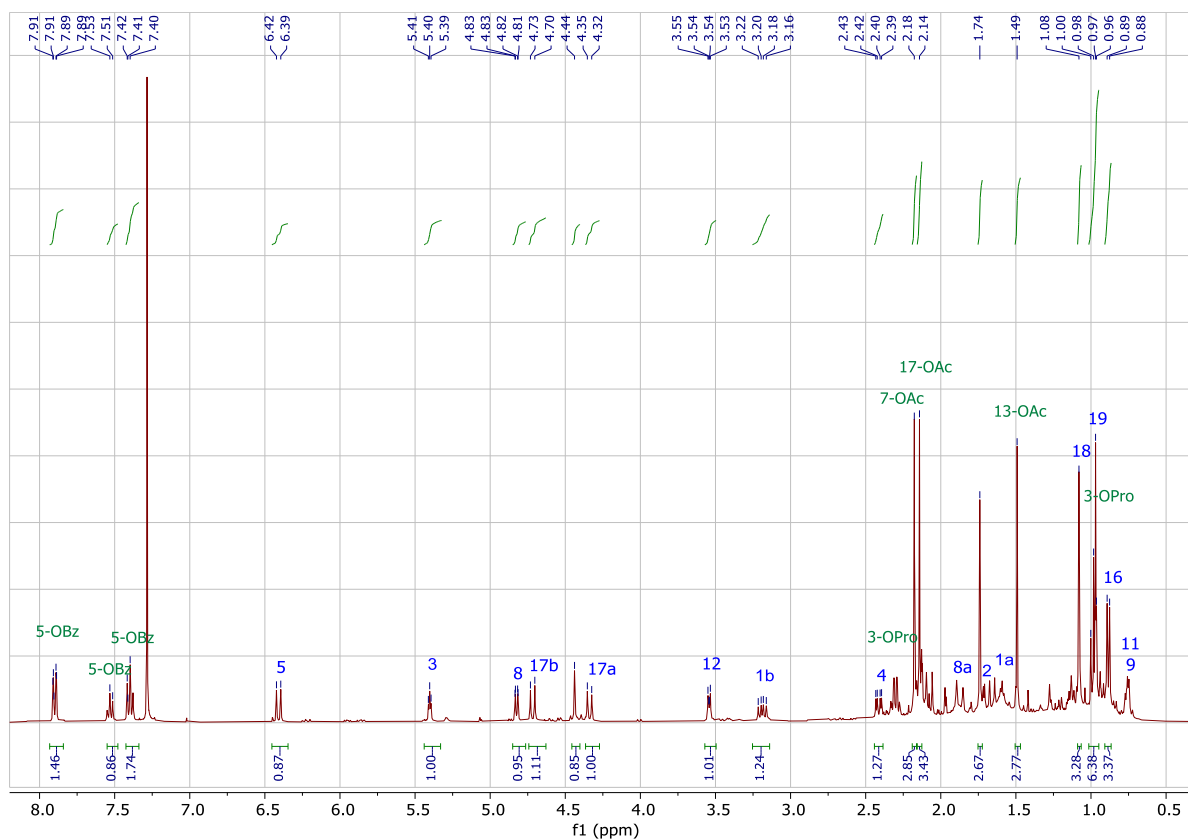


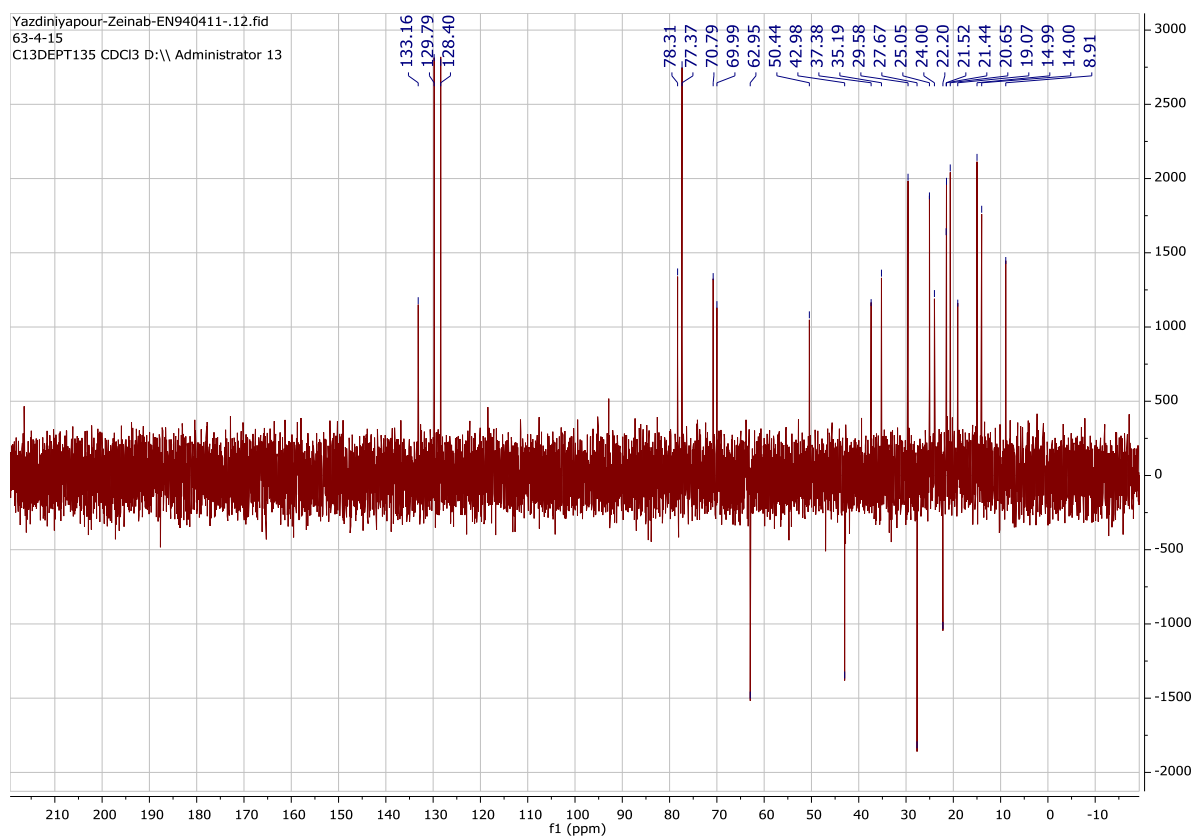
**Figure S10.** NOESY (400 MHz) spectrum of compound **1**



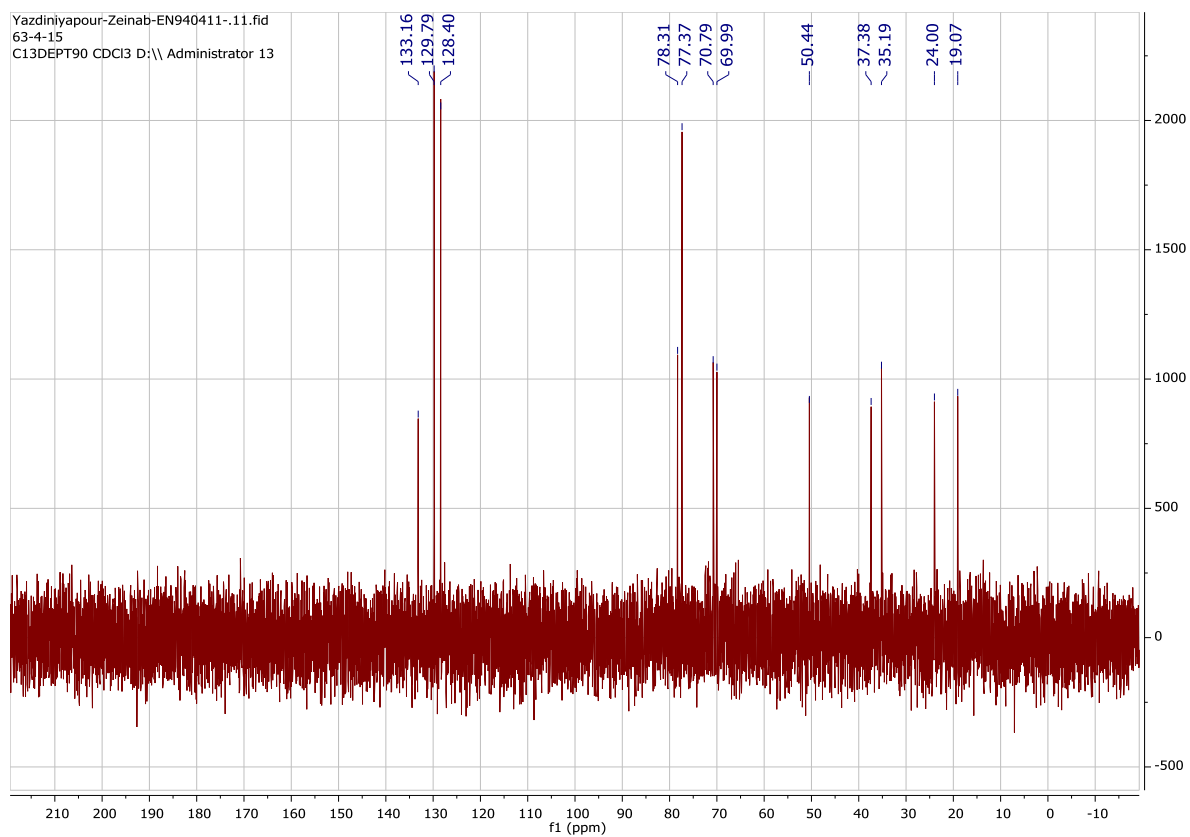
**Figure S11.** HR-ESI-MS spectrum of compound **1**







**Figure S14.**  $^{13}\text{C}$  DEPT135 (100 MHz) spectrum of compound **2**



**Figure S15.**  $^{13}\text{C}$  DEPT90 (100 MHz) spectrum of compound **2**

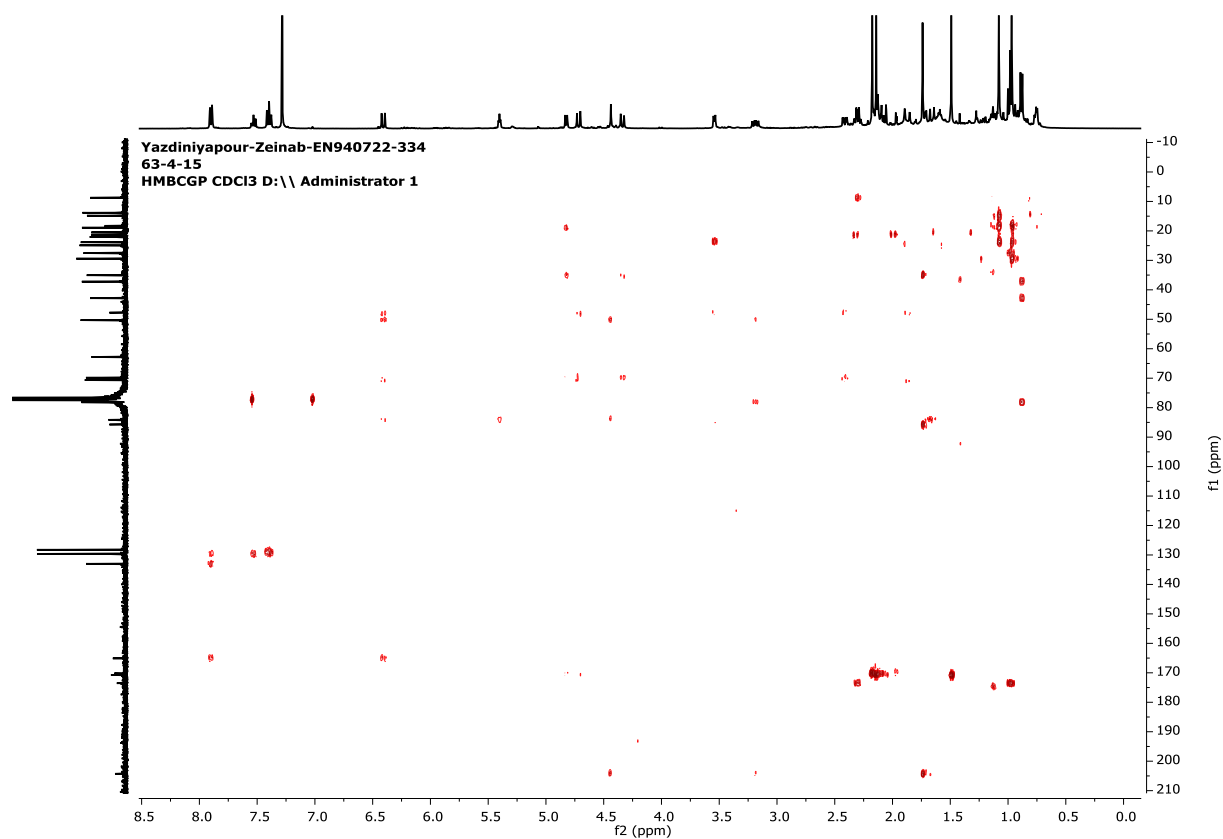


Figure S16. HMBCGP (400 MHz) spectrum of compound 2

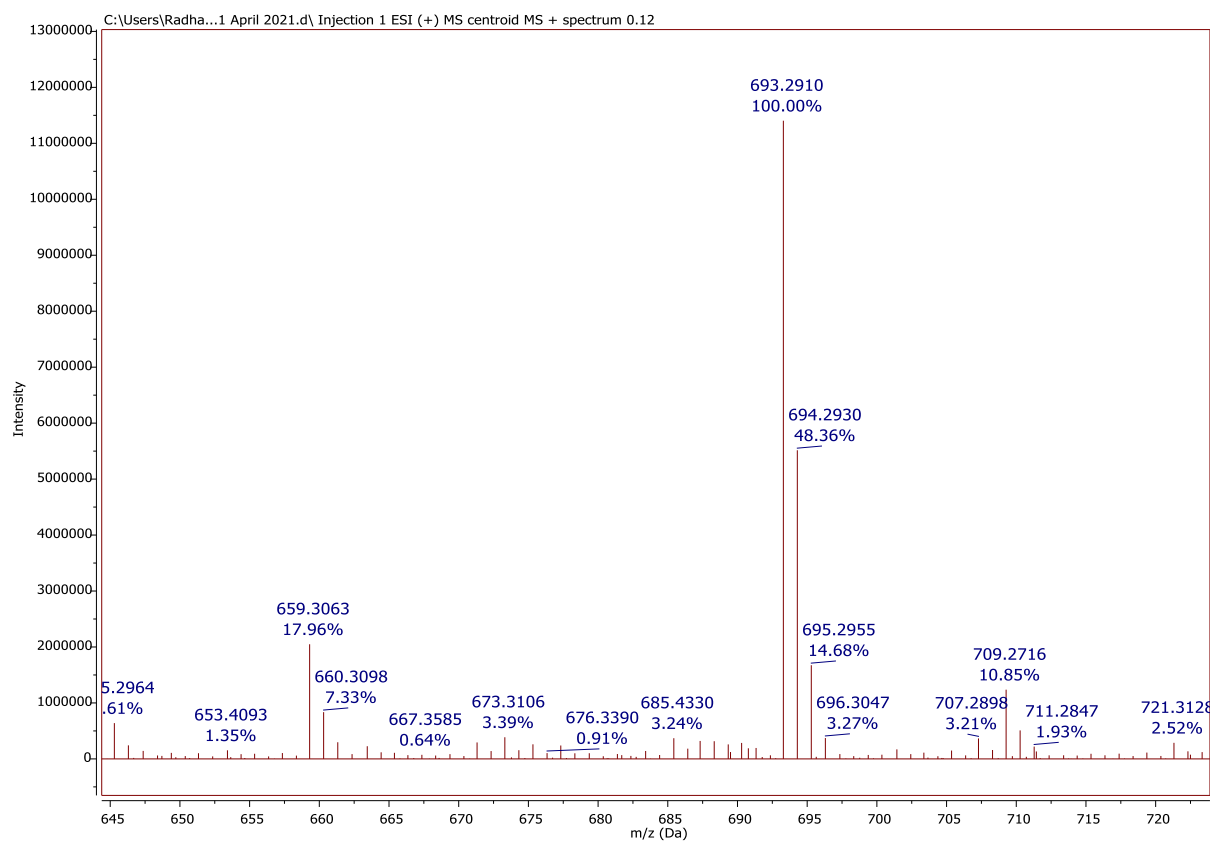
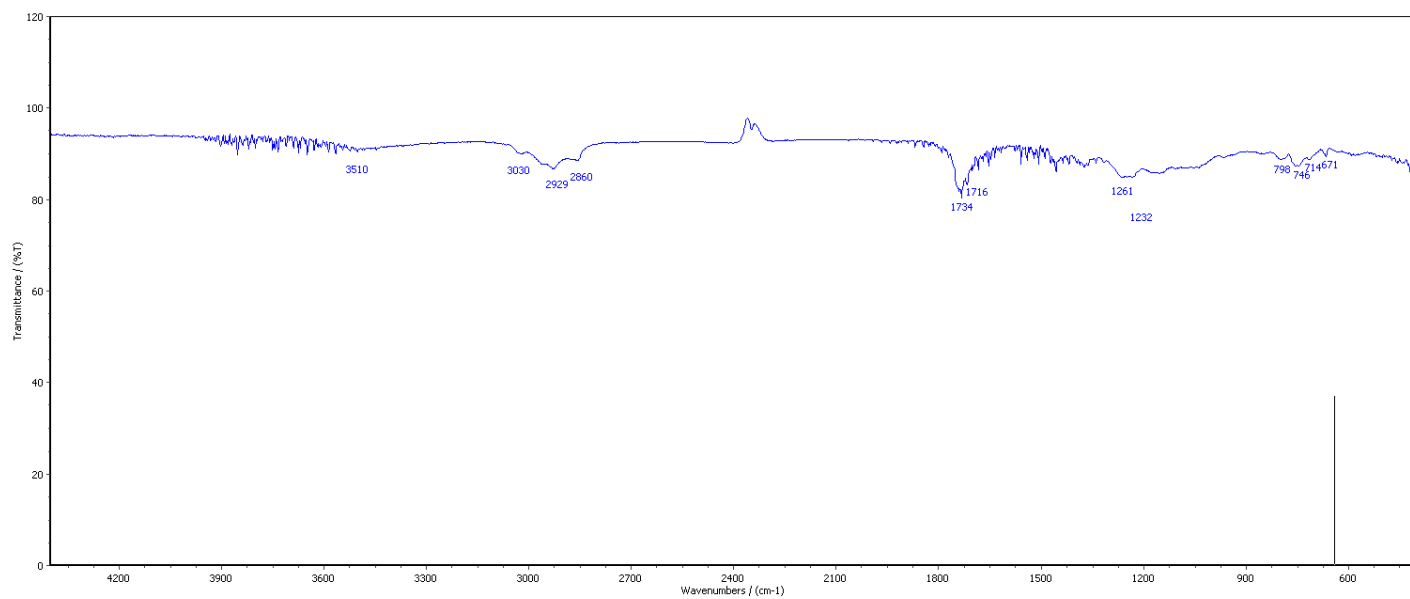


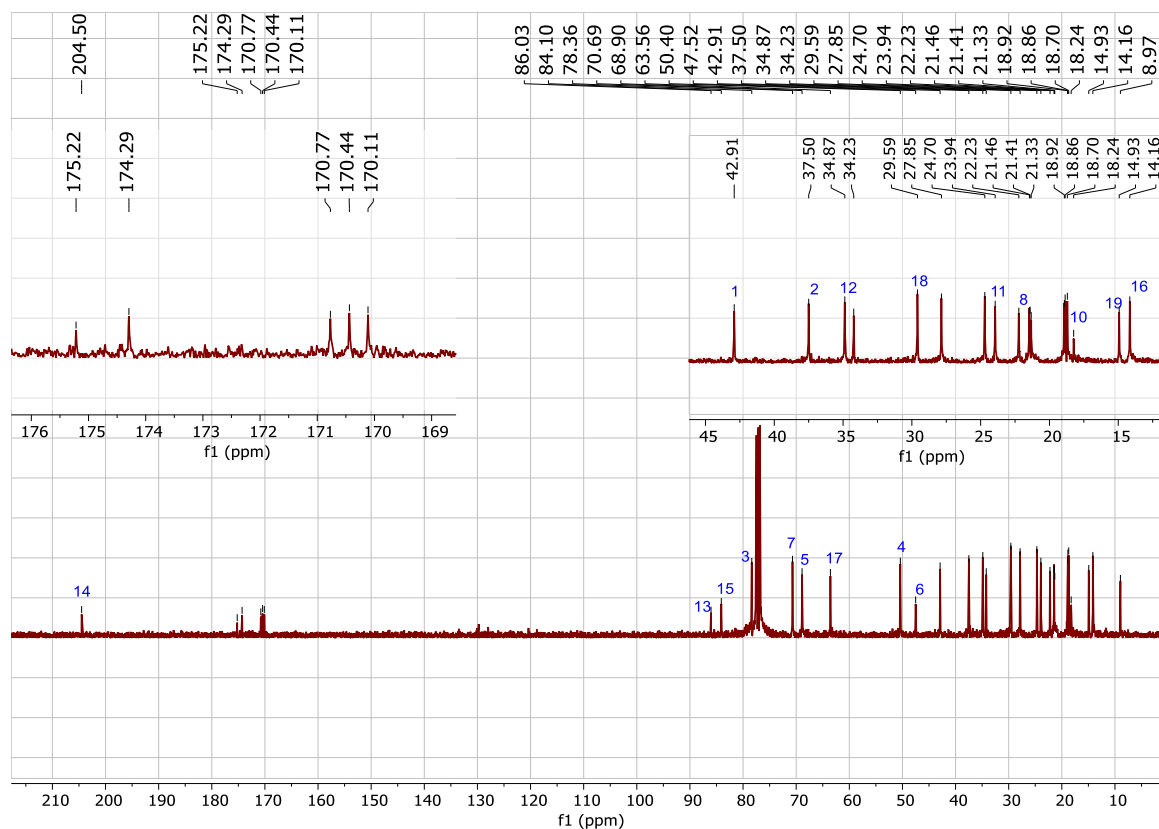
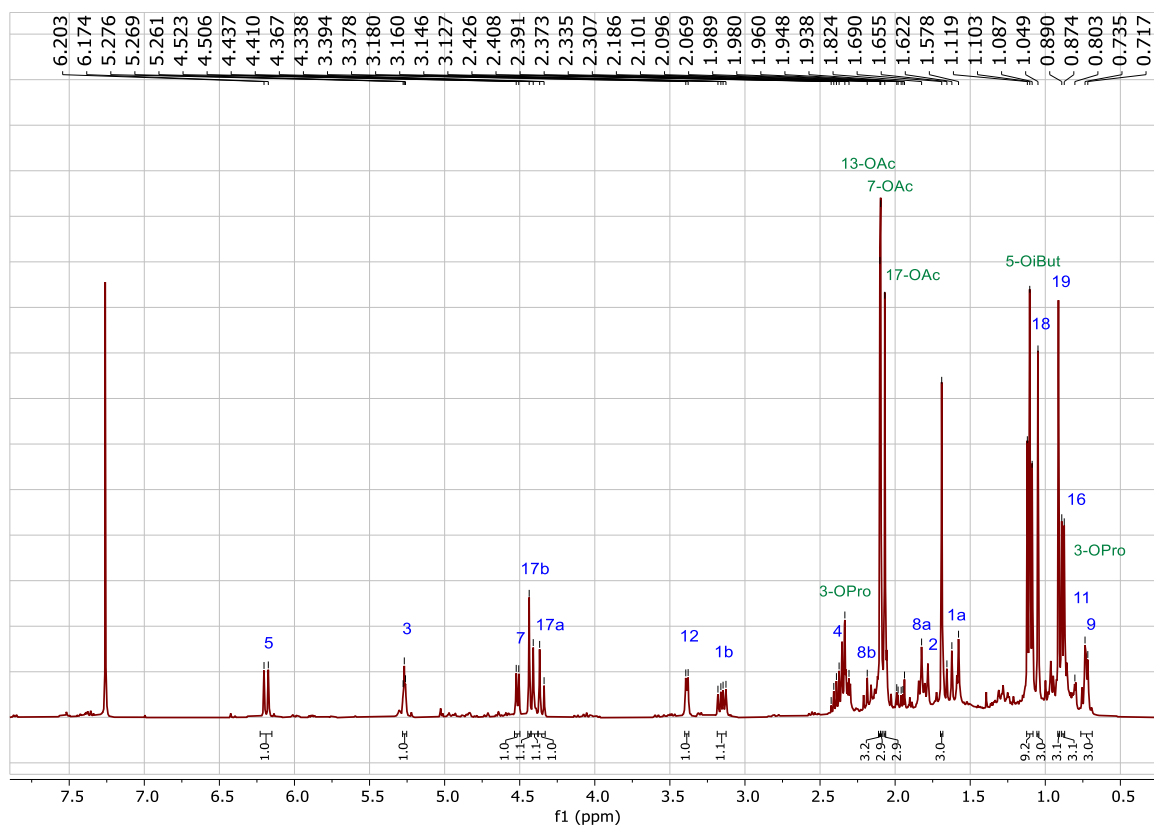
Figure S17. HR-ESI-MS spectrum of compound 2

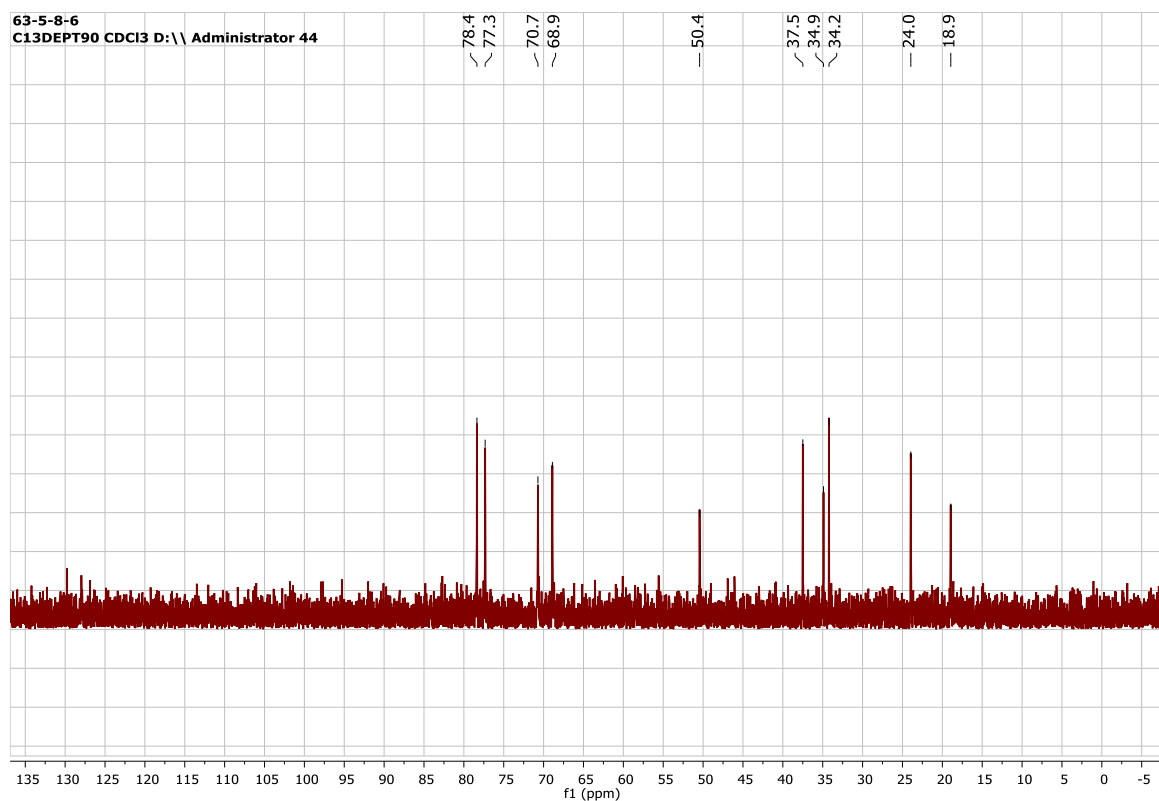
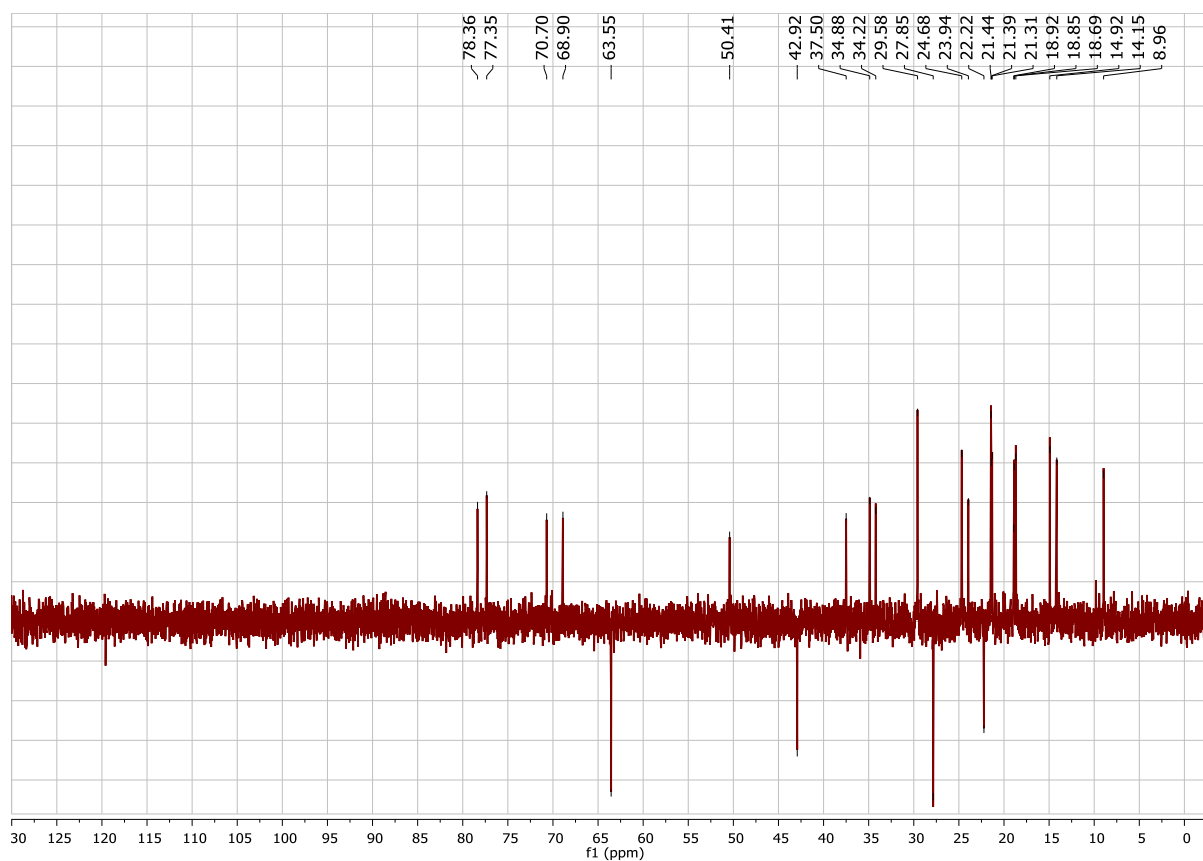


Instrument model=WQF-510 resolution=4 scan times=20

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**Figure S18.** FT-IR spectrum of compound 2





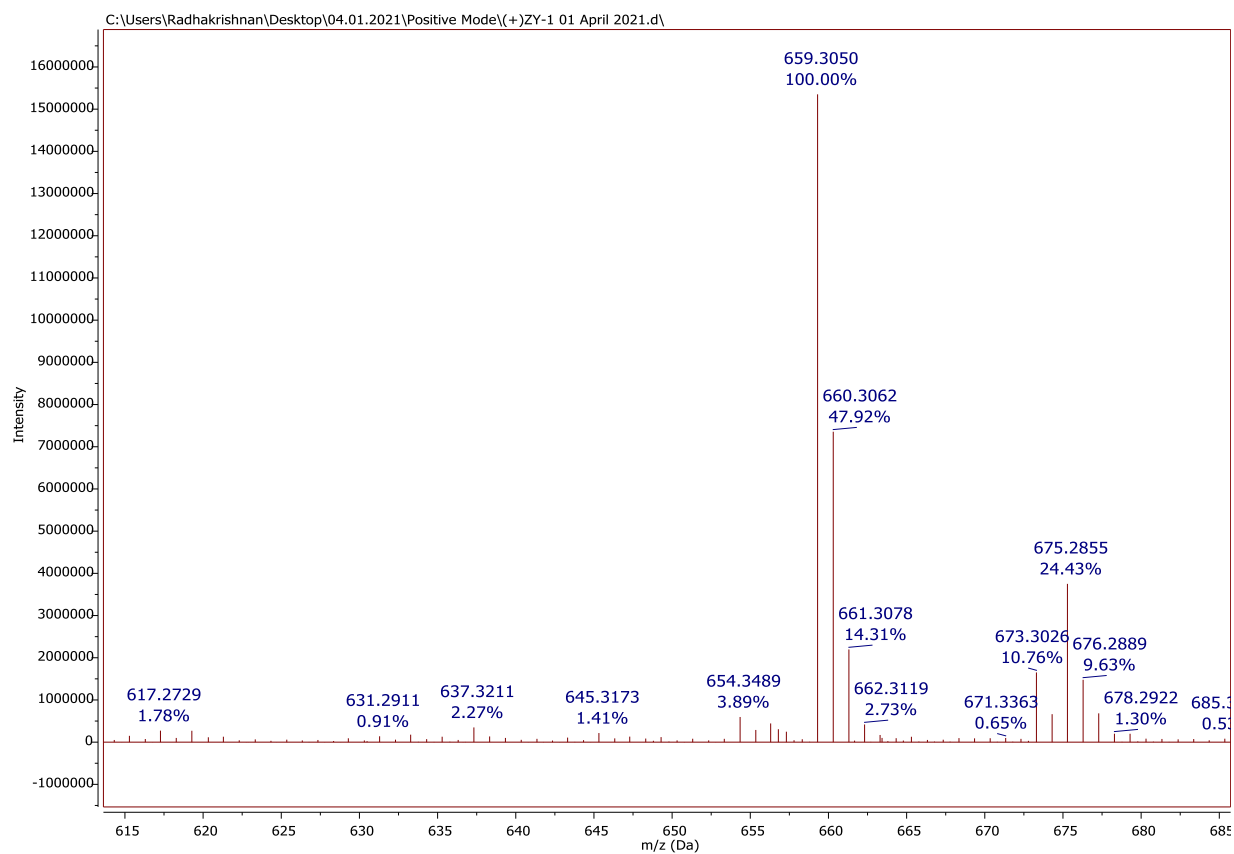
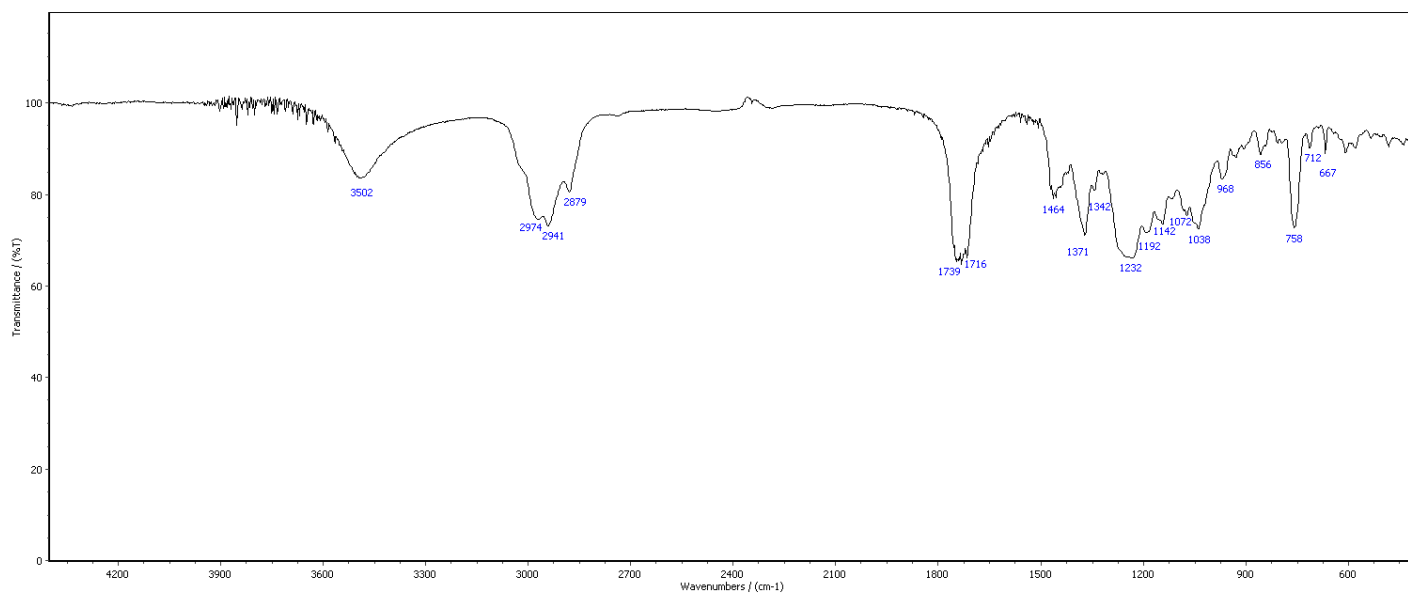


Figure S23. HR-ESI-MS spectrum of compound 3



Instrument model=WQF-510 resolution=4 scan times=20

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Figure S24. FT-IR spectrum of compound 3

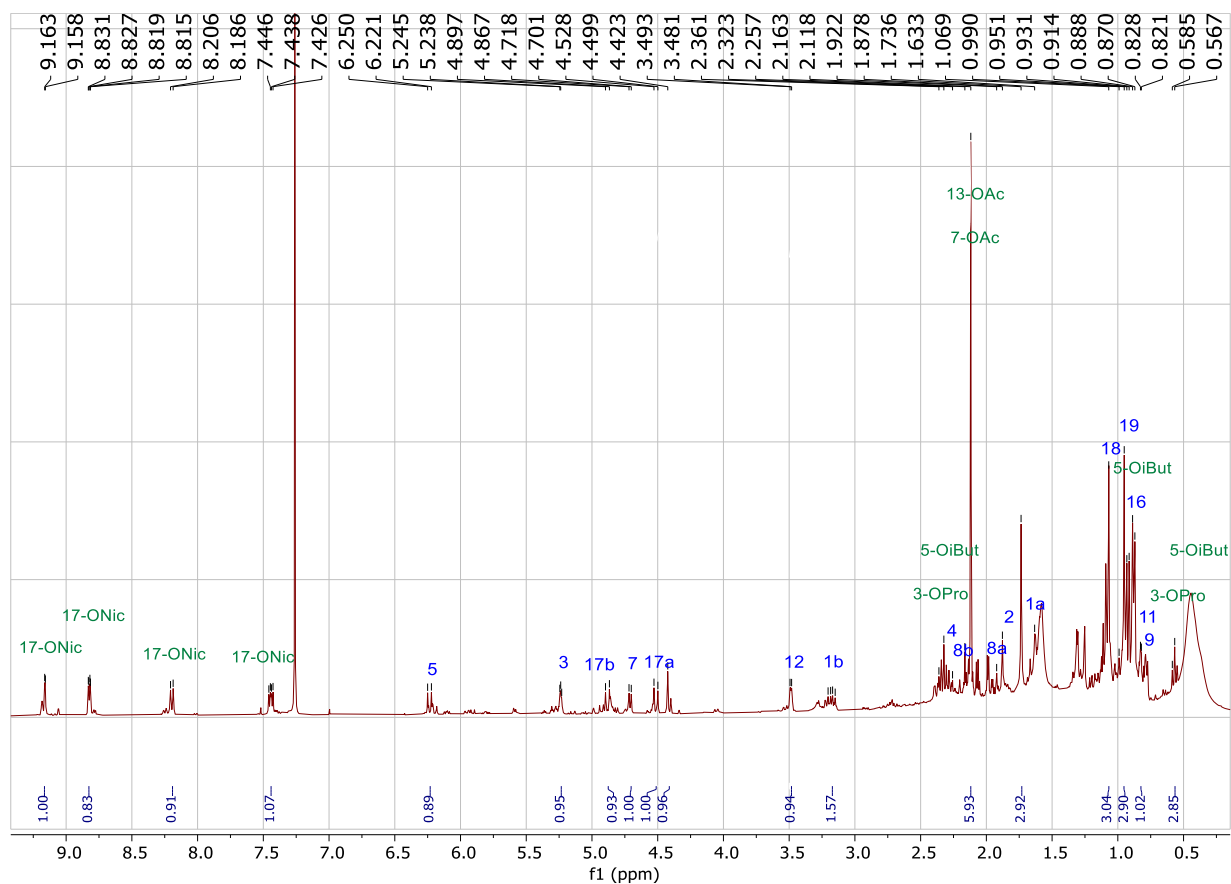


Figure S25.  $^1\text{H}$  NMR (400 MHz) spectrum compound 4

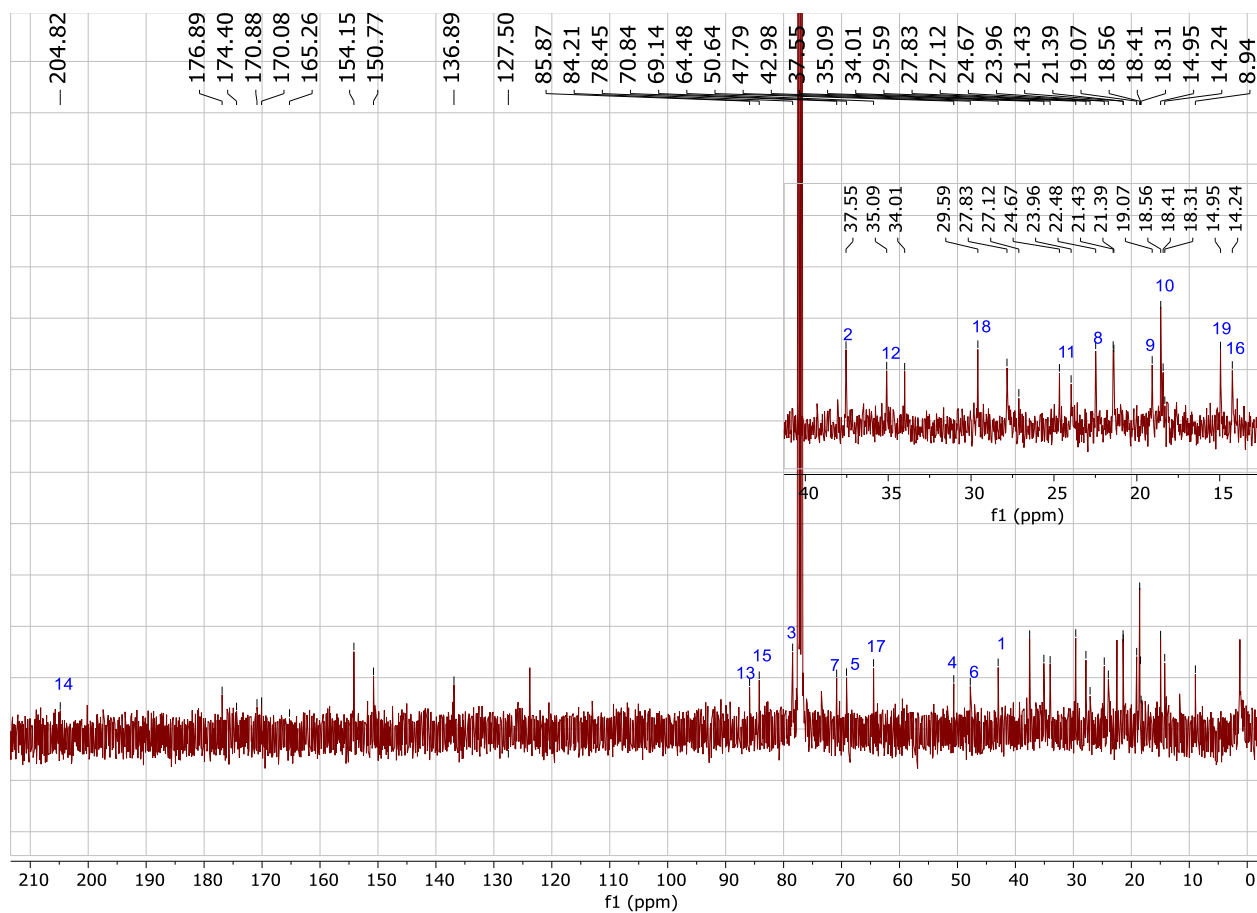


Figure S26.  $^{13}\text{C}$  NMR (100 MHz) spectrum of compound 4



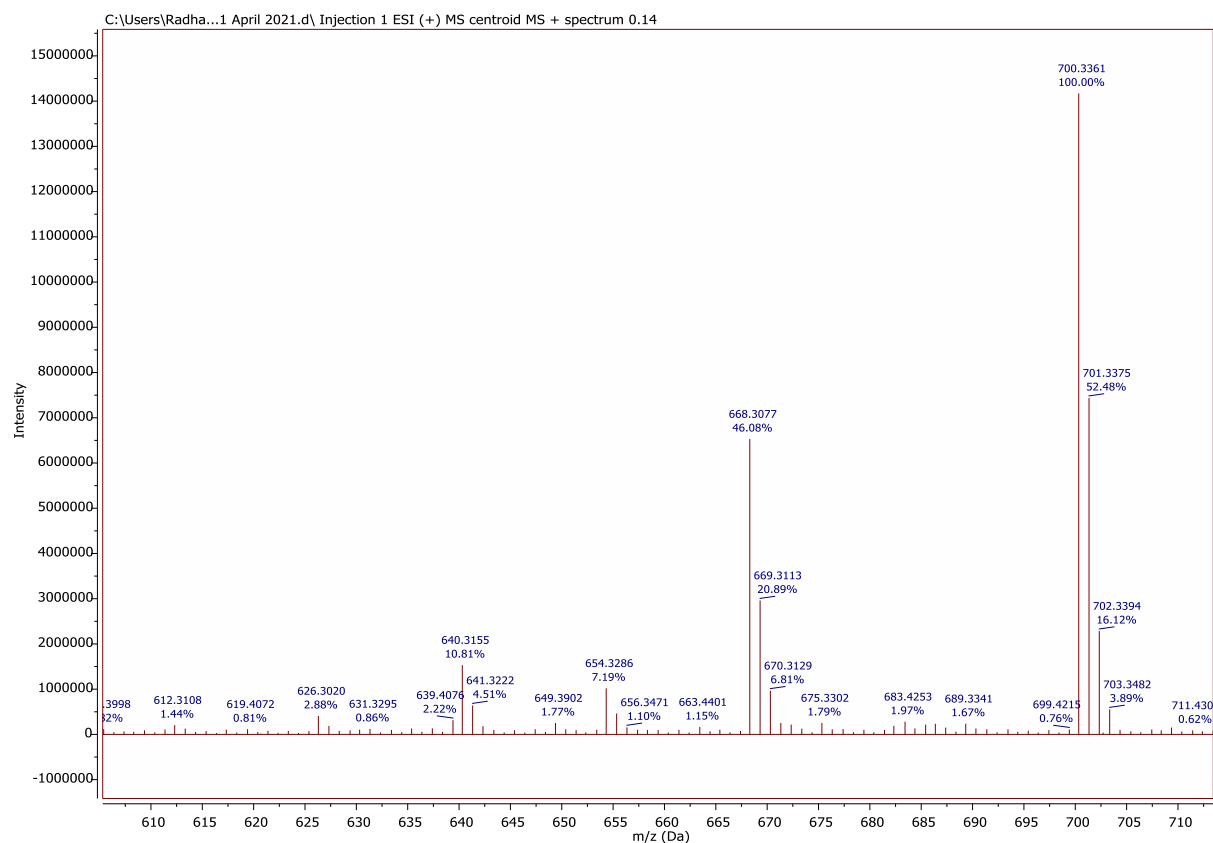
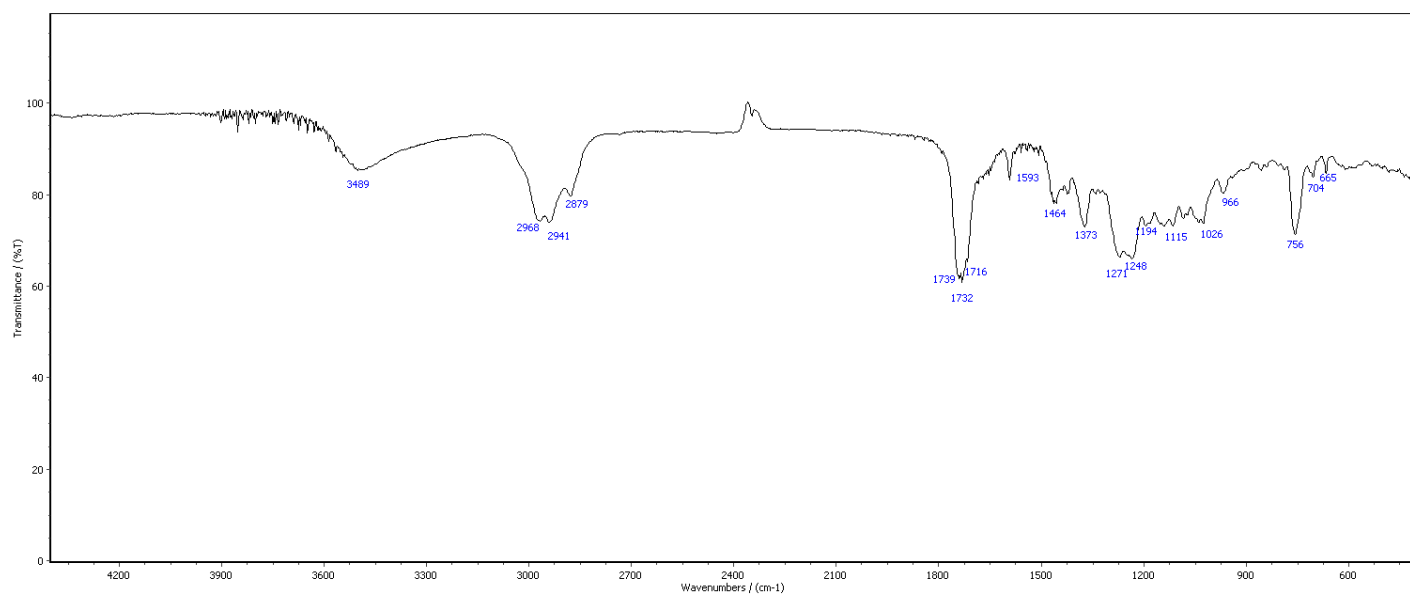


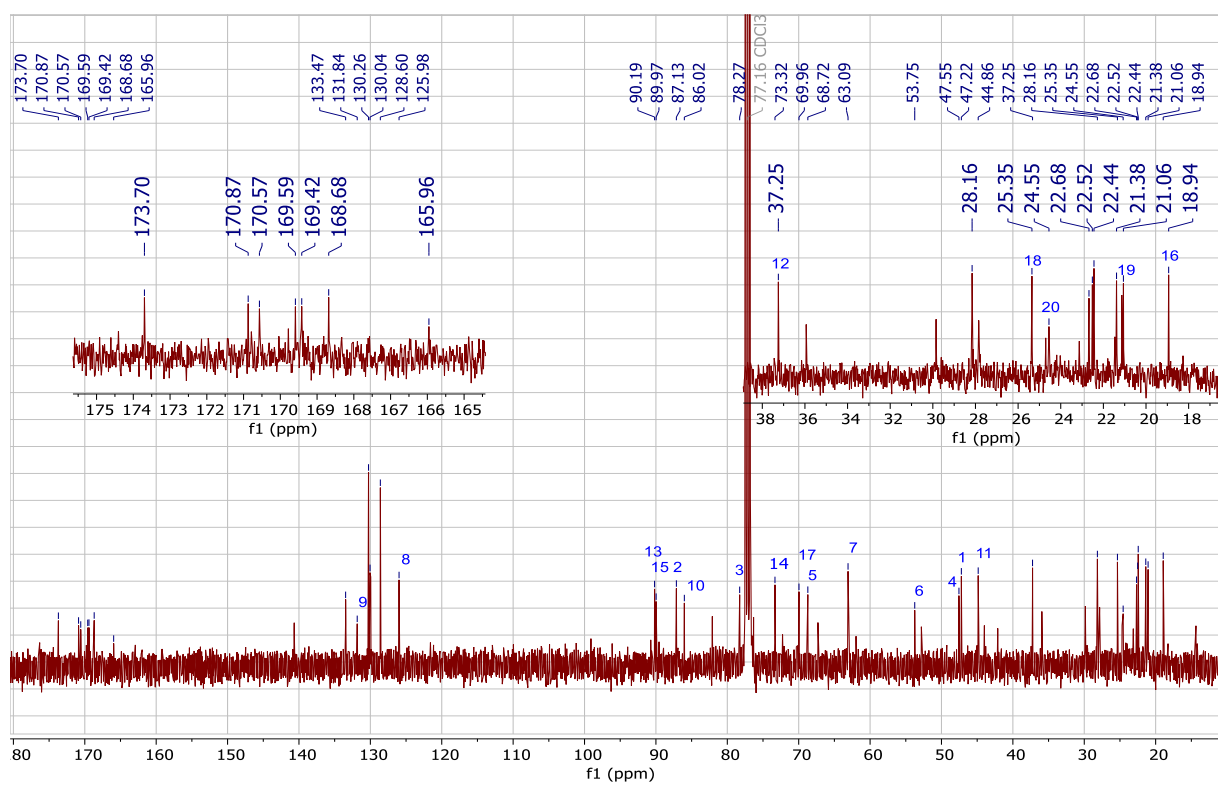
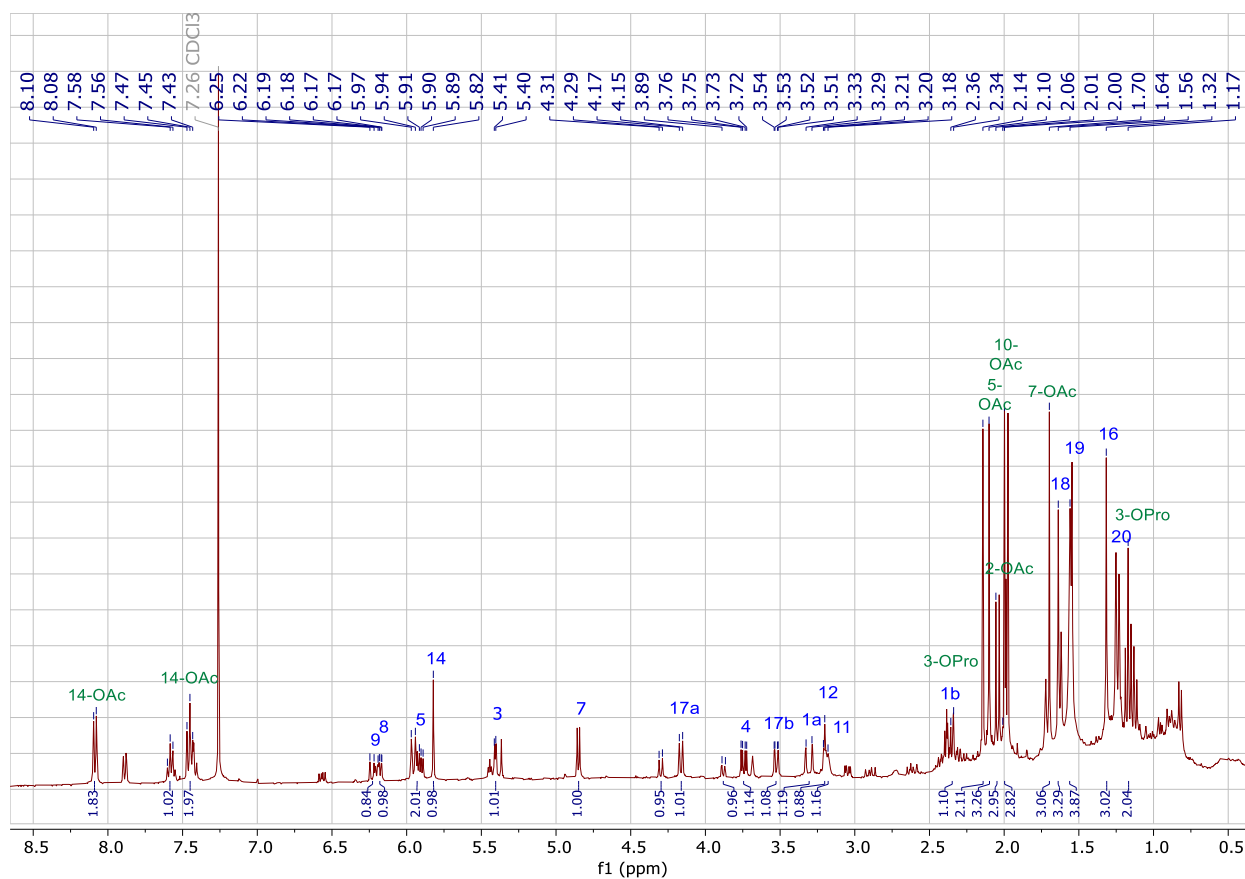
Figure S27. HR-ESI-MS spectrum of compound 4

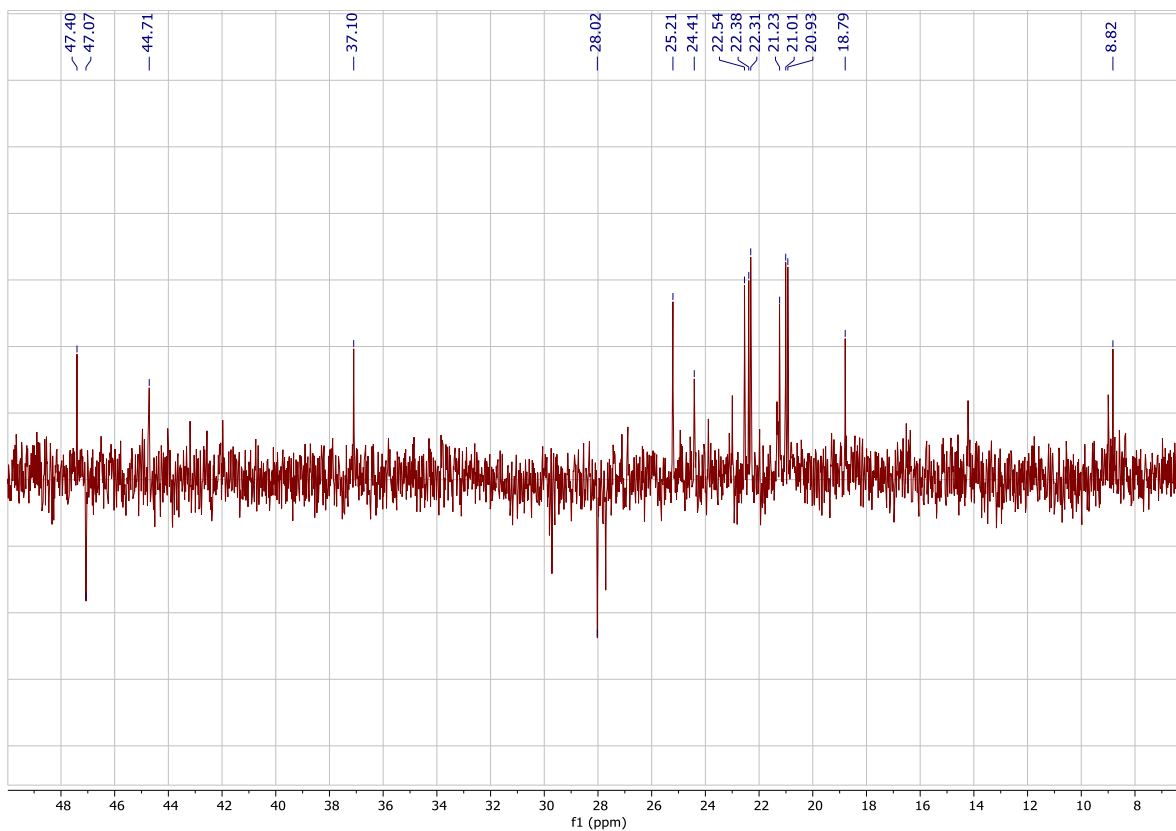


Instrument model=WQF-510 resolution=4 scan times=20

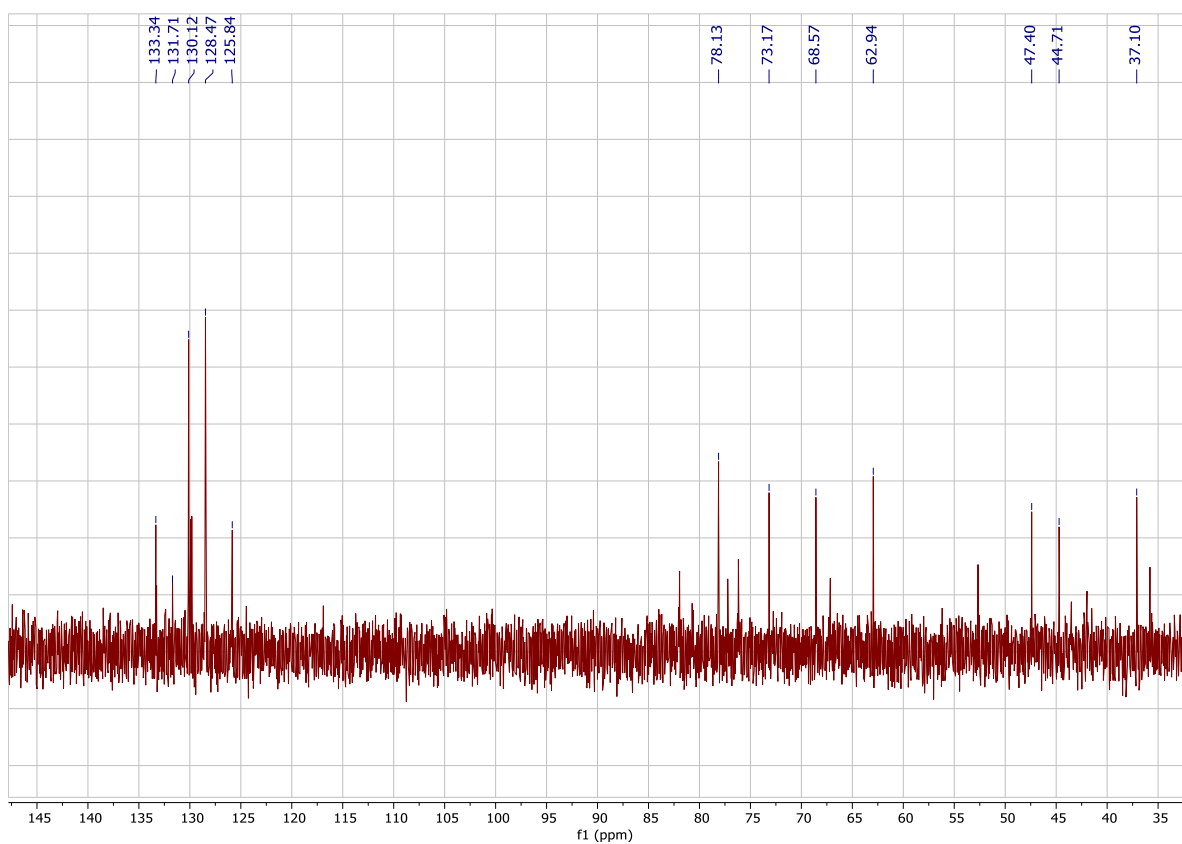
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Figure S28. FT-IR spectrum of compound 4





**Figure S31.**  $^{13}\text{C}$  DEPT135 (100 MHz) spectrum of compound **5**



**Figure S32.**  $^{13}\text{C}$  DEPT90 (100 MHz) spectrum of compound **5**

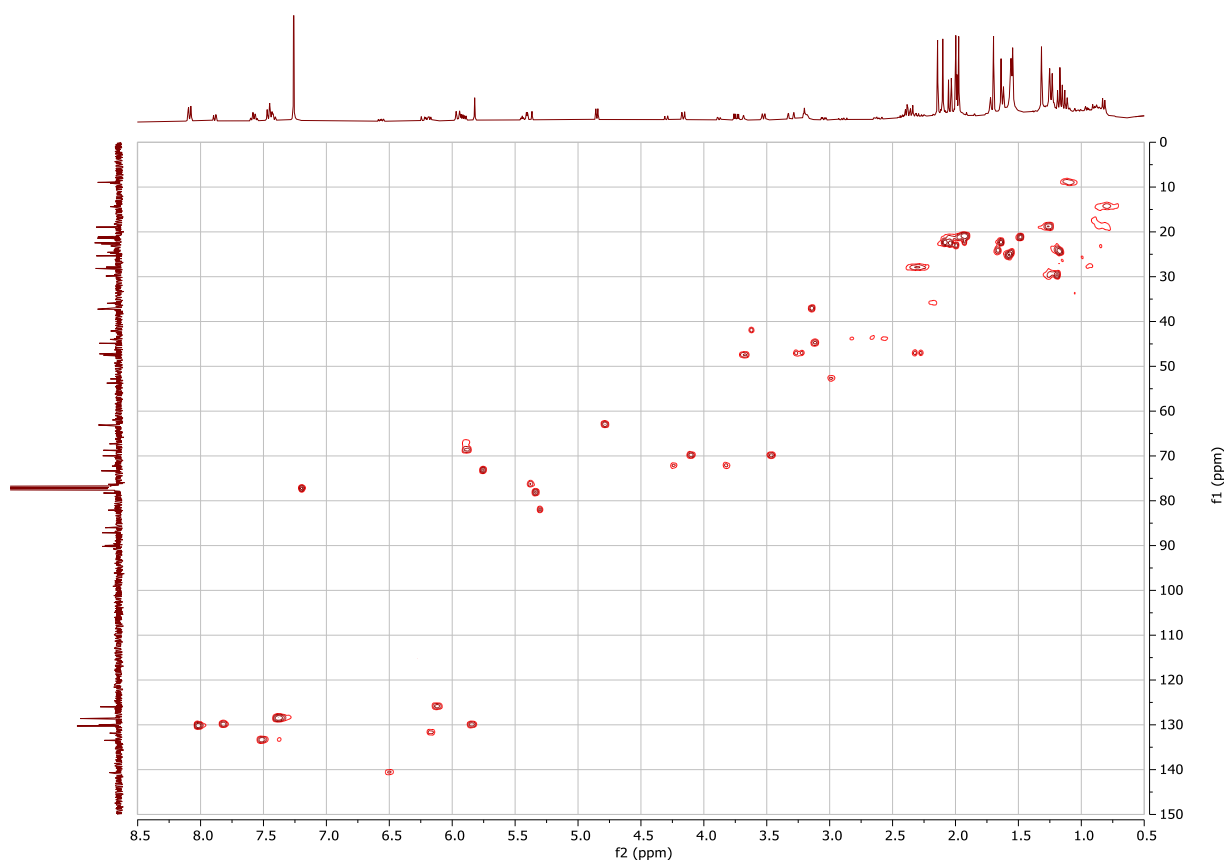


Figure S33. HSQCGP (400 MHz) spectrum of compound 5

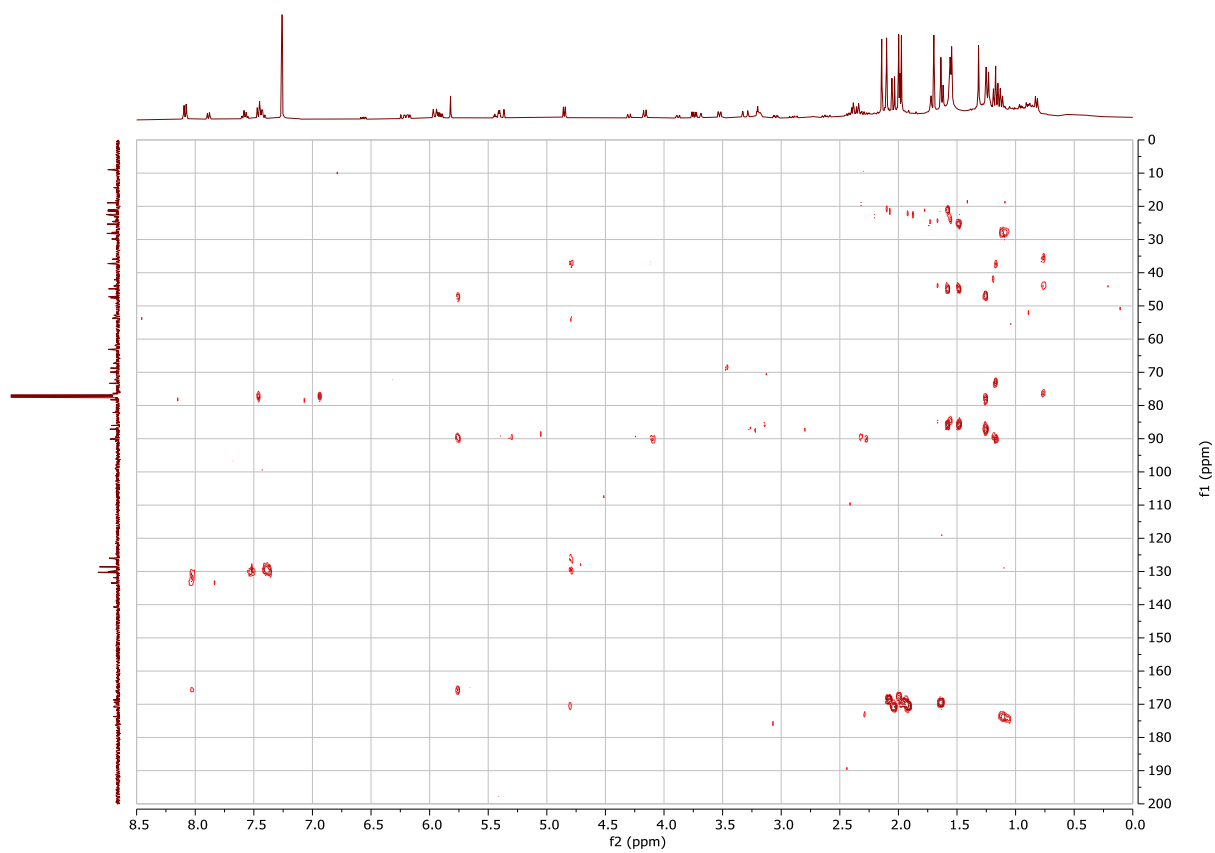
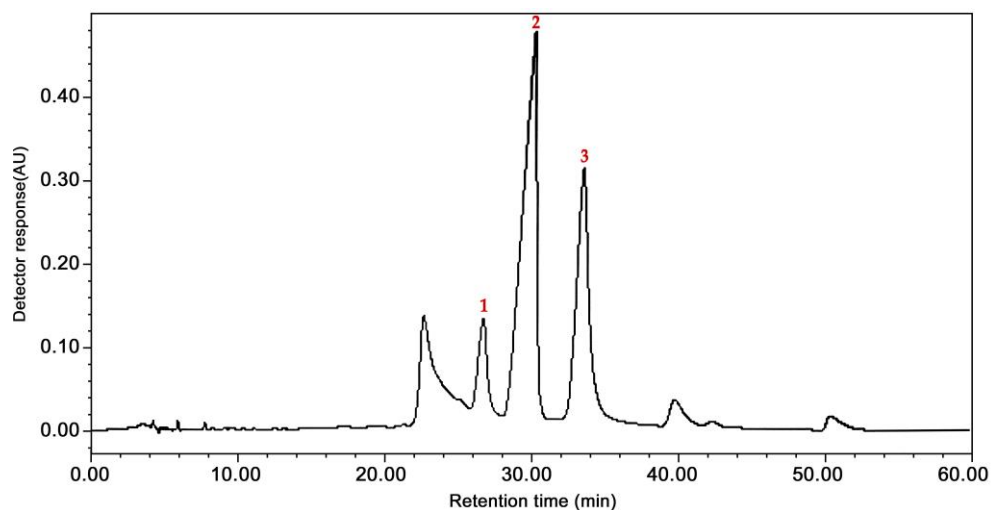
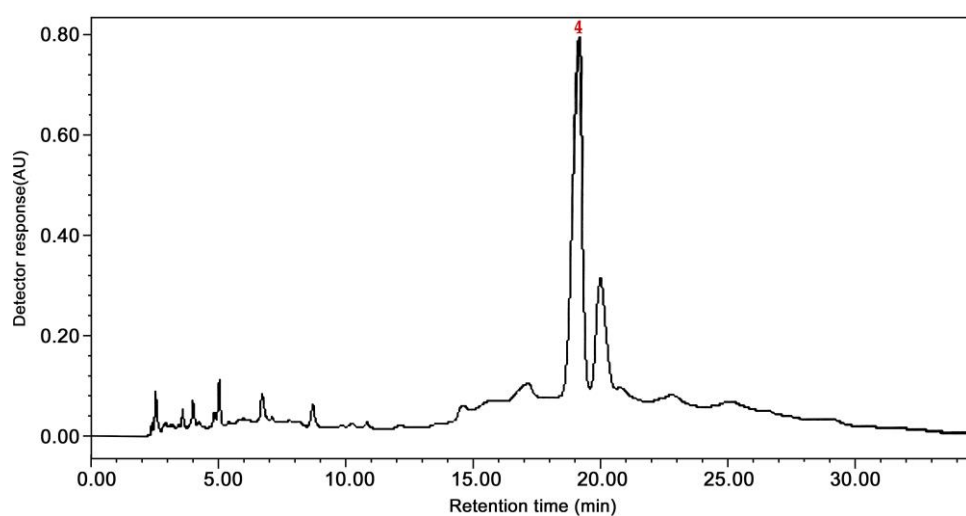


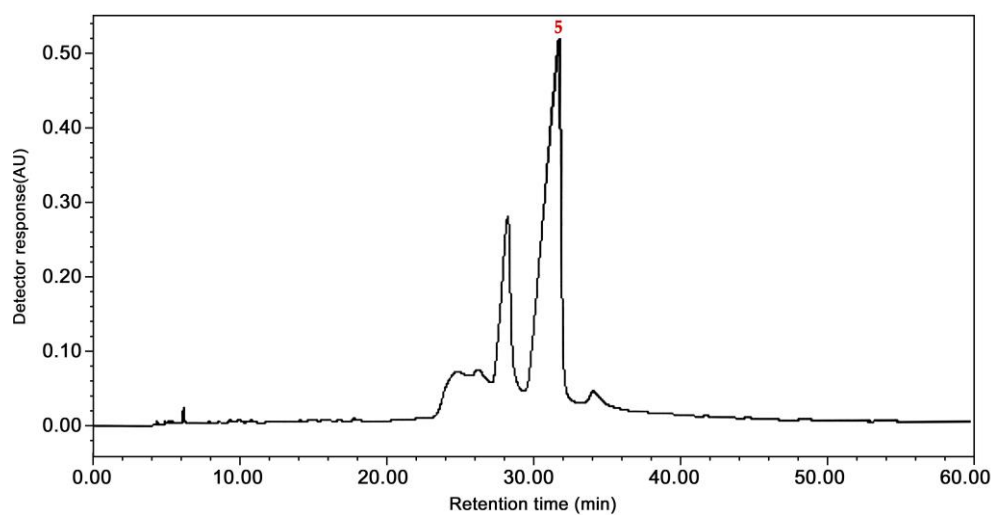
Figure S34. HMBCGP (400 MHz) spectrum of compound 5



**Figure S35.** HPLC chromatogram of fraction 5 showing peaks corresponding to compounds 1, 2 and 3



**Figure S36.** HPLC chromatogram of fraction 10-1 showing peak corresponding to compound 4



**Figure S37.** HPLC chromatogram of fraction 9 showing peak corresponding to compound 5