

# Chemical constituents from *Apios americana* and their inhibitory activity on tyrosinase

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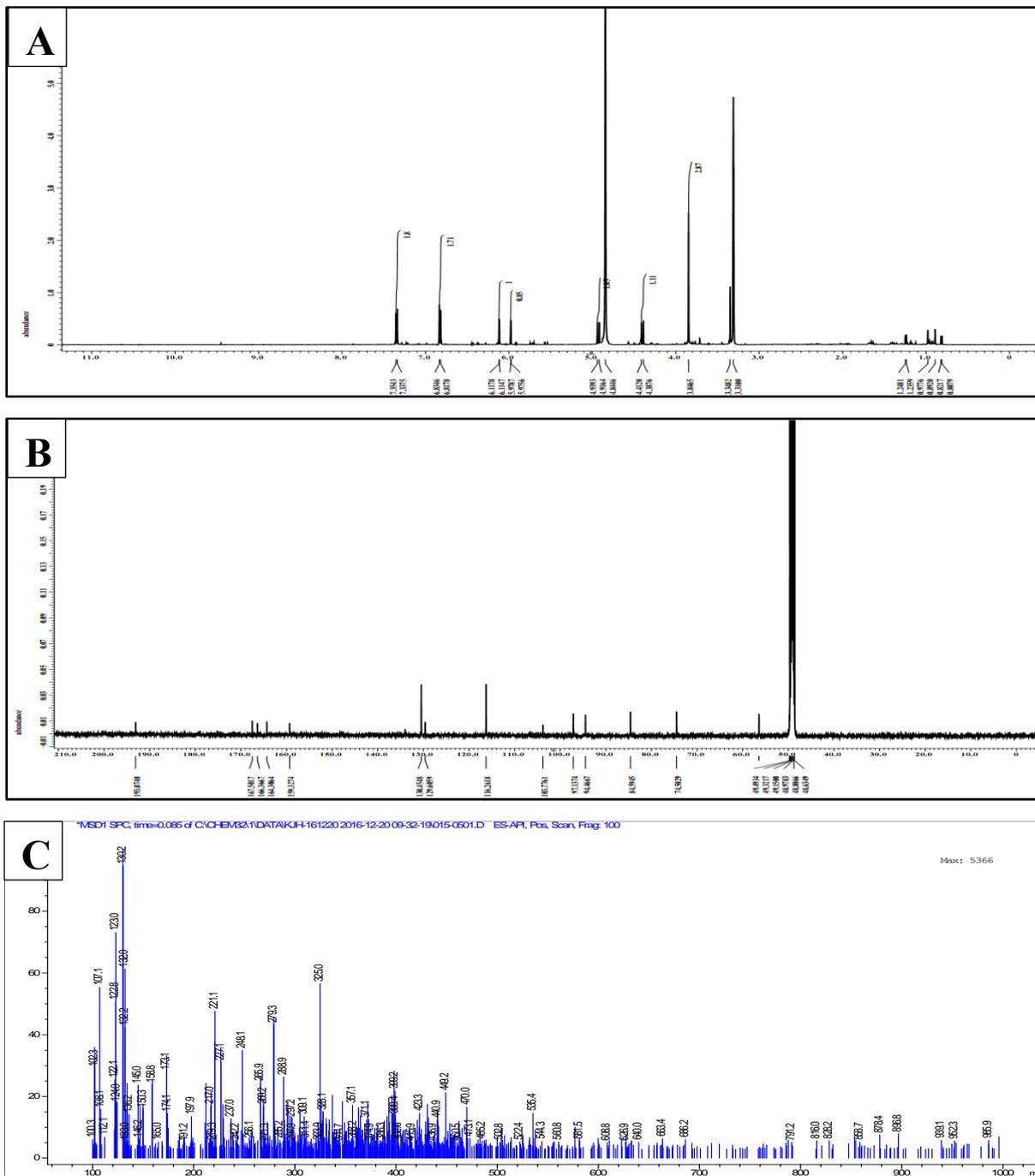
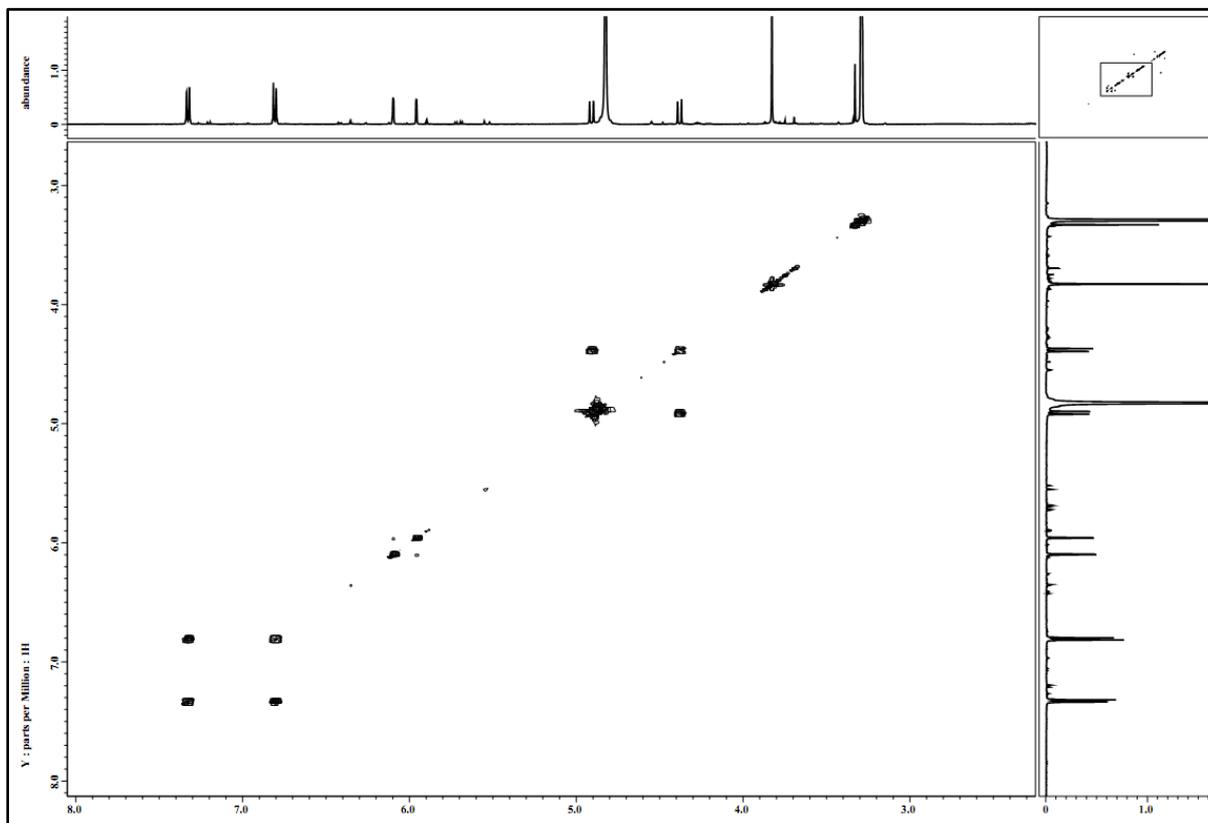


Figure S1.  $^1\text{H}$ (A)-/ $^{13}\text{C}$ (B)-NMR and MS(C) spectra of compound **1**.



**Figure S2.** COSY of compound **1**.

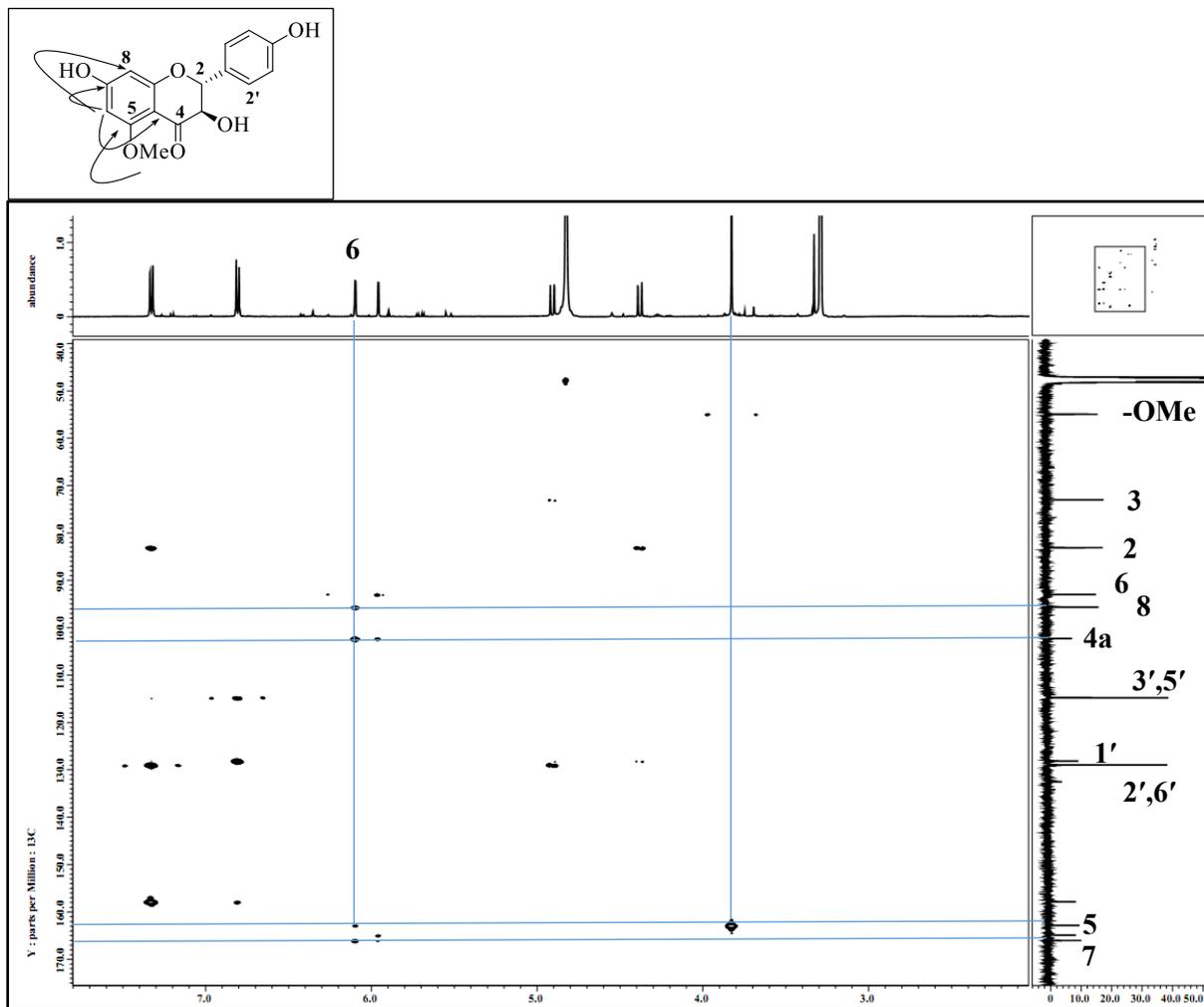
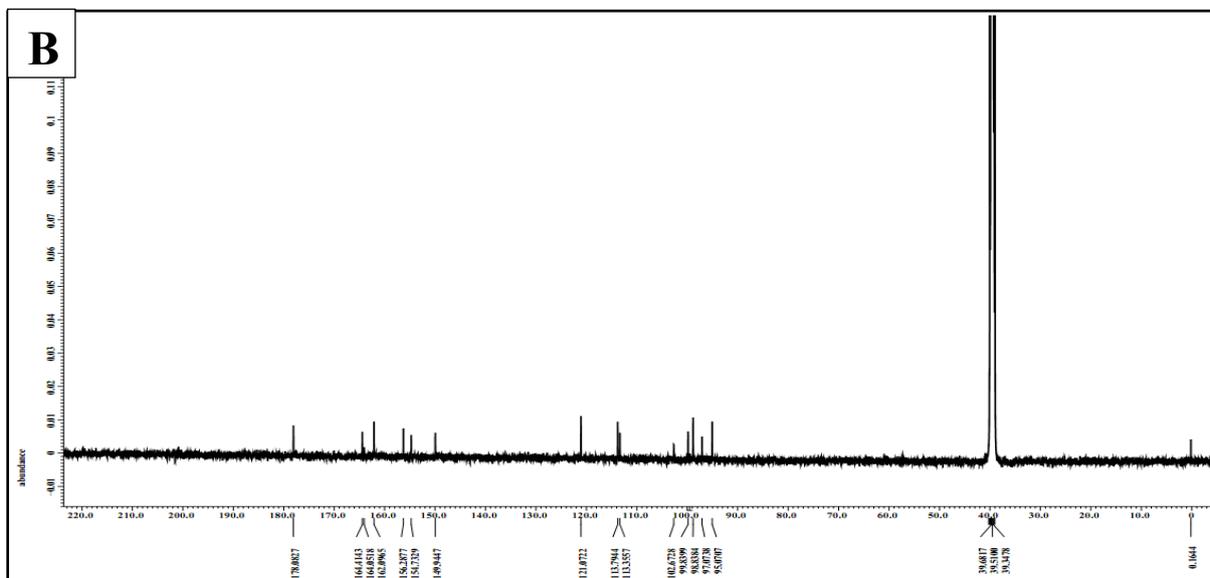
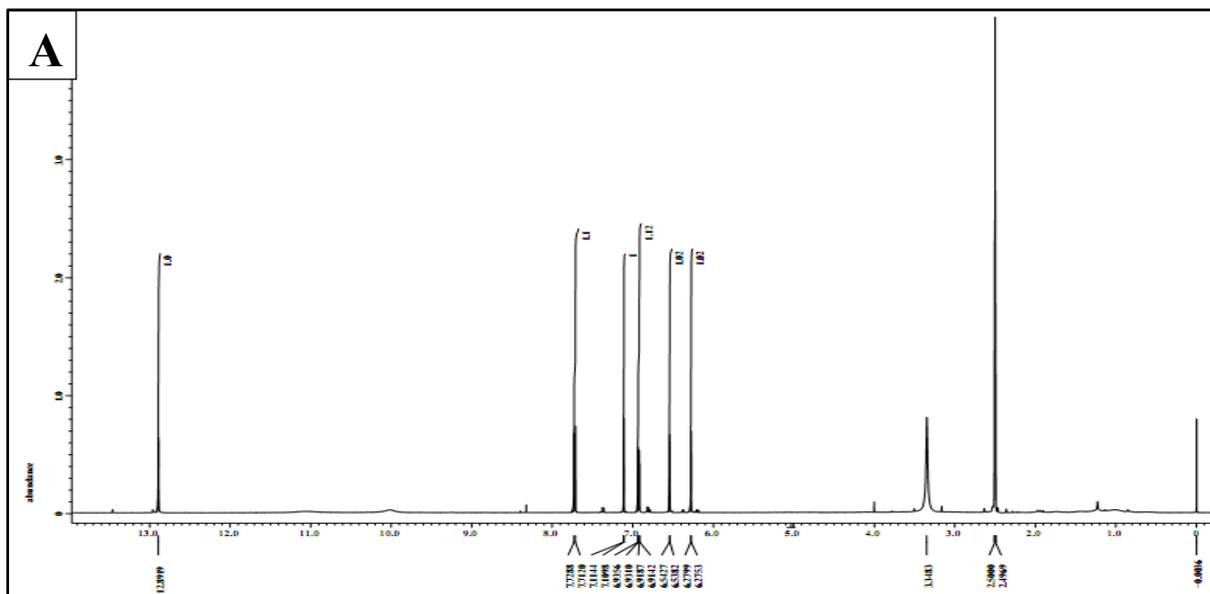


Figure S3. HMBC of compound 1.



**Figure S4.**  $^1\text{H}$ (A) and  $^{13}\text{C}$ (B)-NMR of compound **2**.

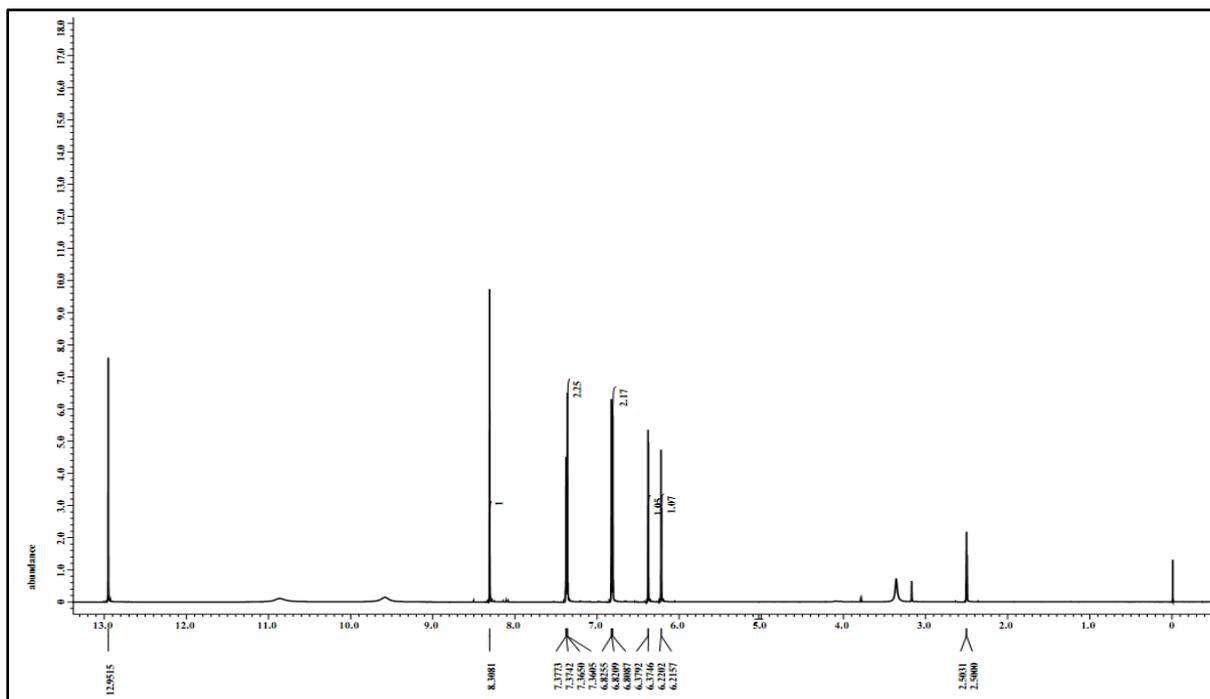


Figure S5. <sup>1</sup>H-NMR of compound 3.

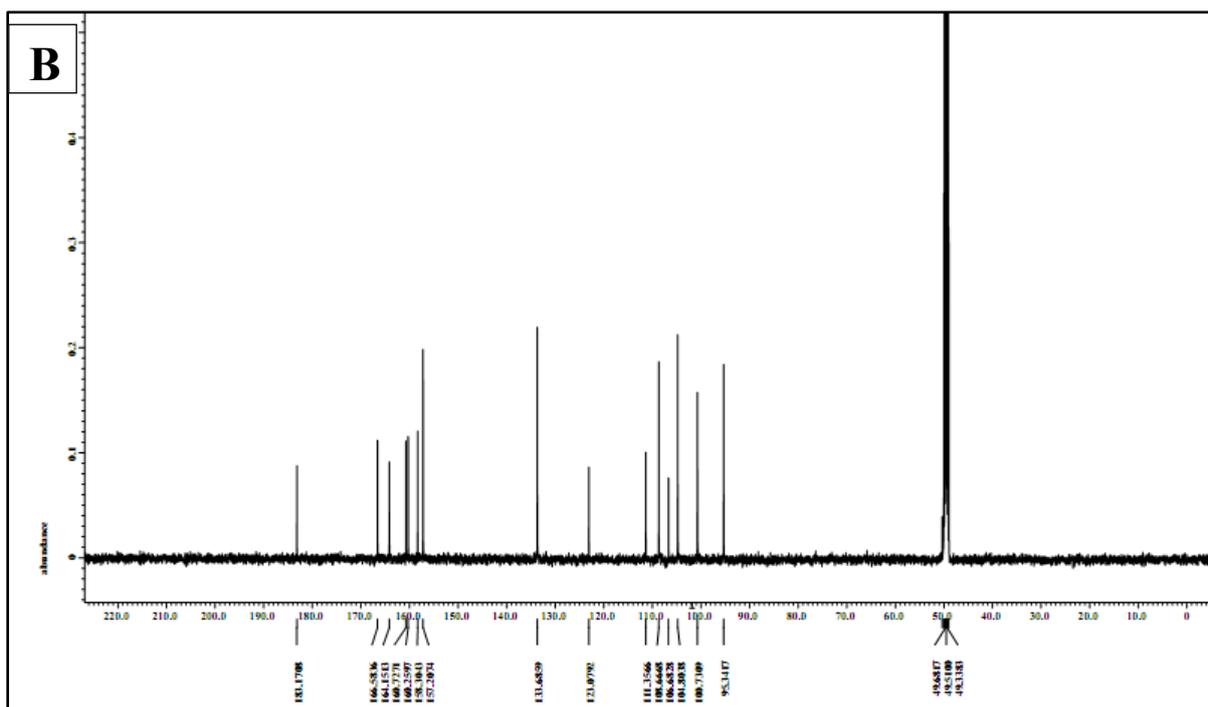
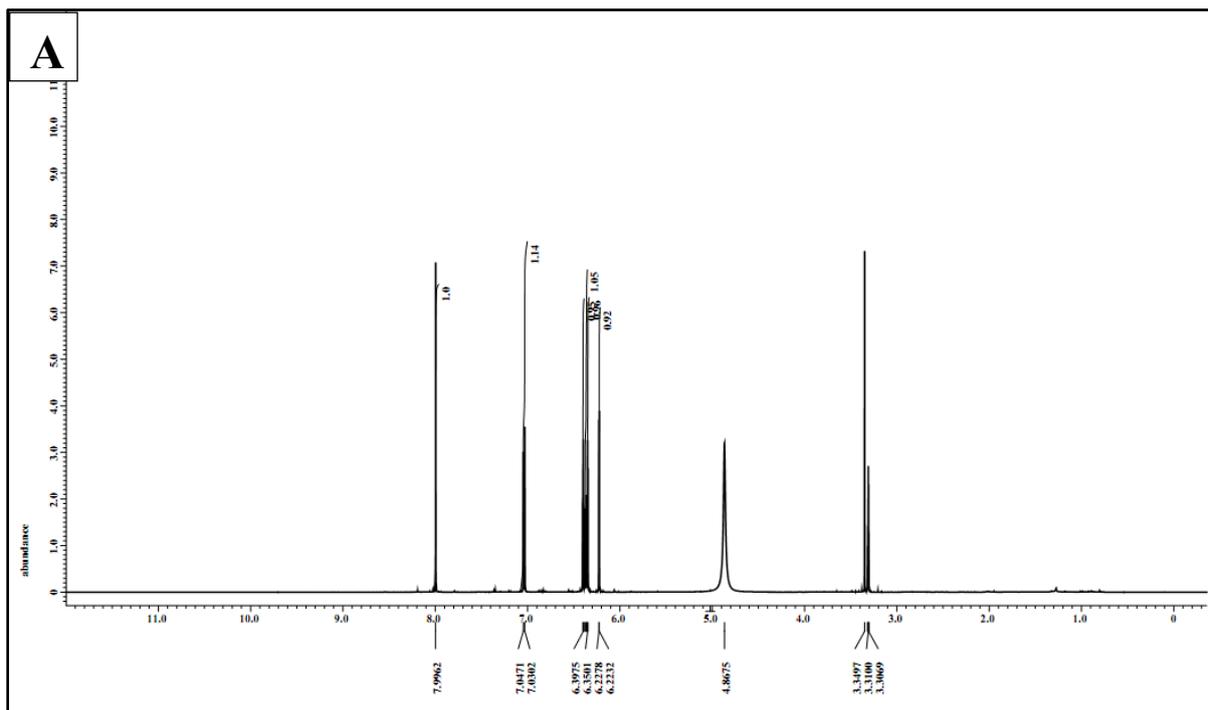


Figure S6.  $^1\text{H}$ (A) and  $^{13}\text{C}$ (B)-NMR of compound 4.

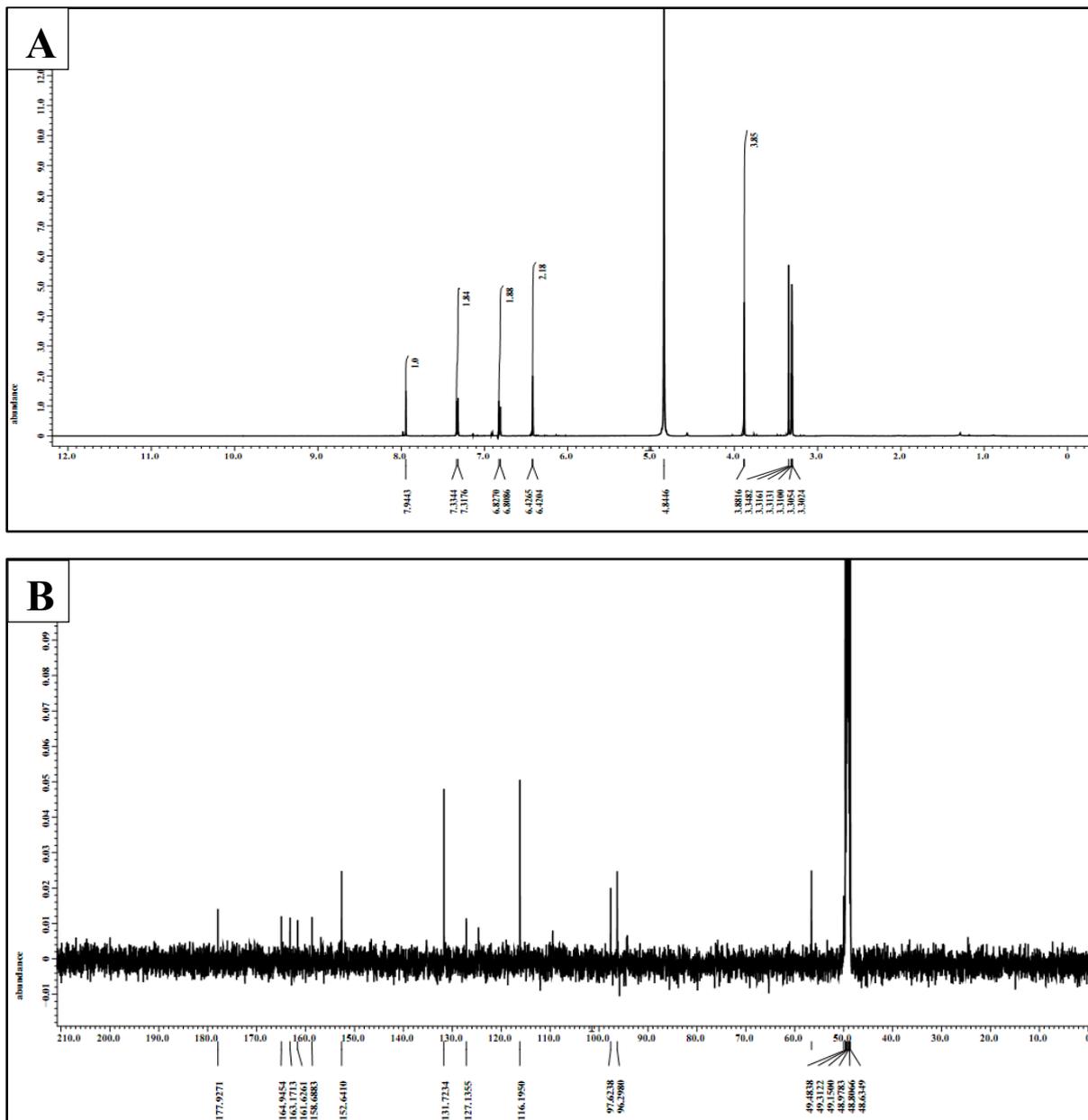


Figure S7.  $^1\text{H}$ (A) and  $^{13}\text{C}$ (B)-NMR of compound **5**.

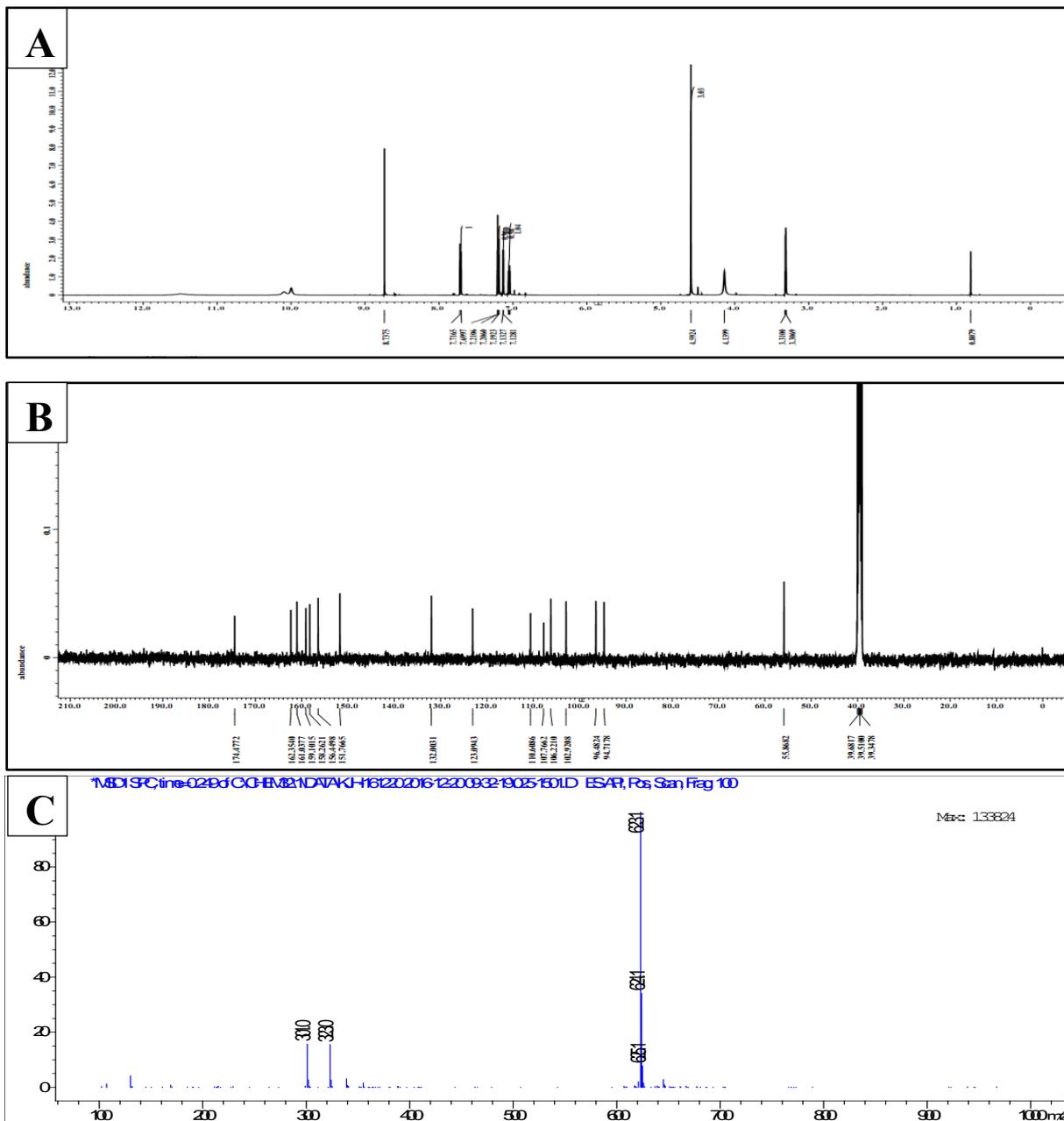
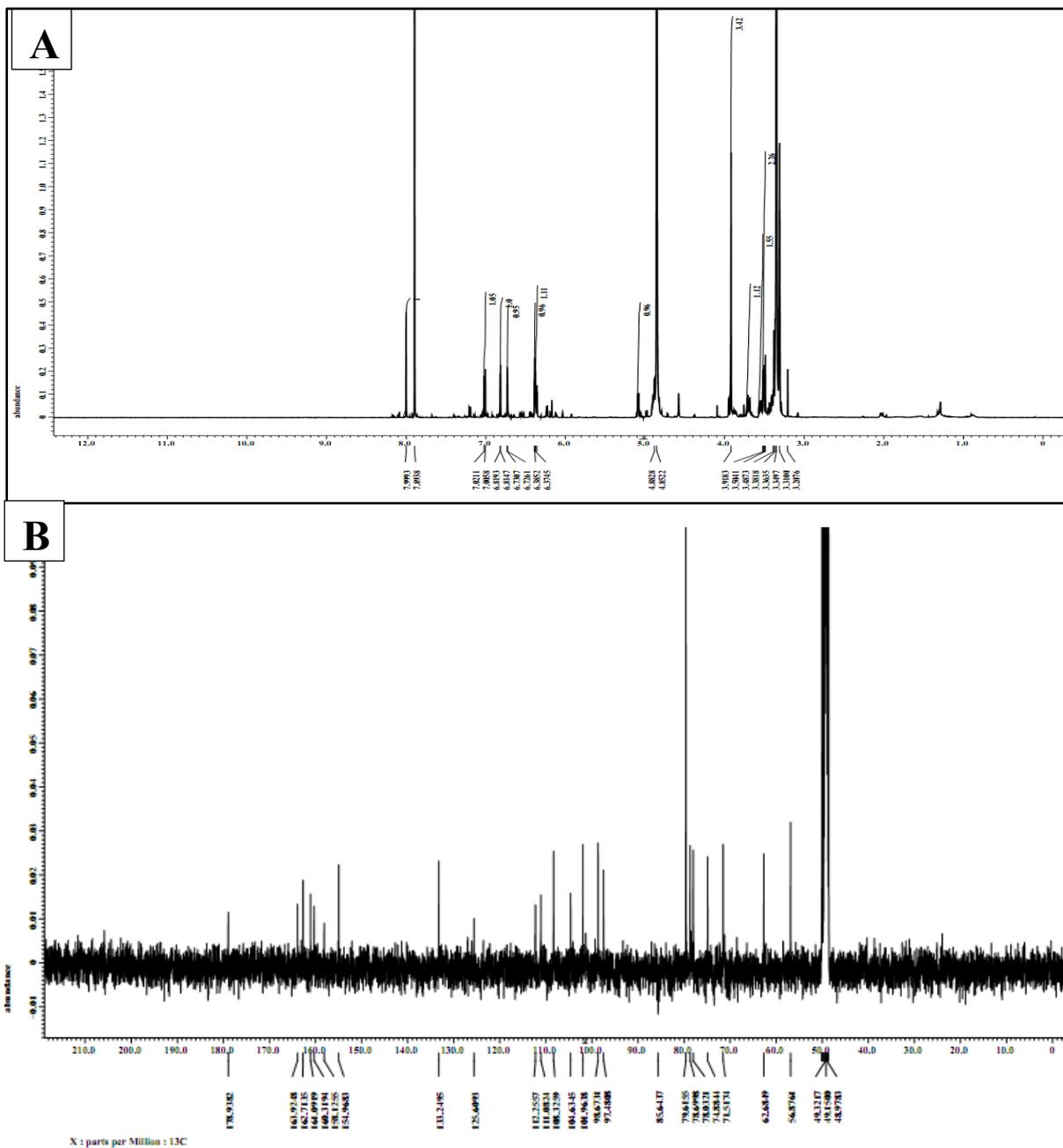


Figure S8. <sup>1</sup>H(A) and <sup>13</sup>C(B)-NMR of compound 6.



**Figure S9.**  $^1\text{H}$ (A) and  $^{13}\text{C}$ (B)-NMR of compound 7.



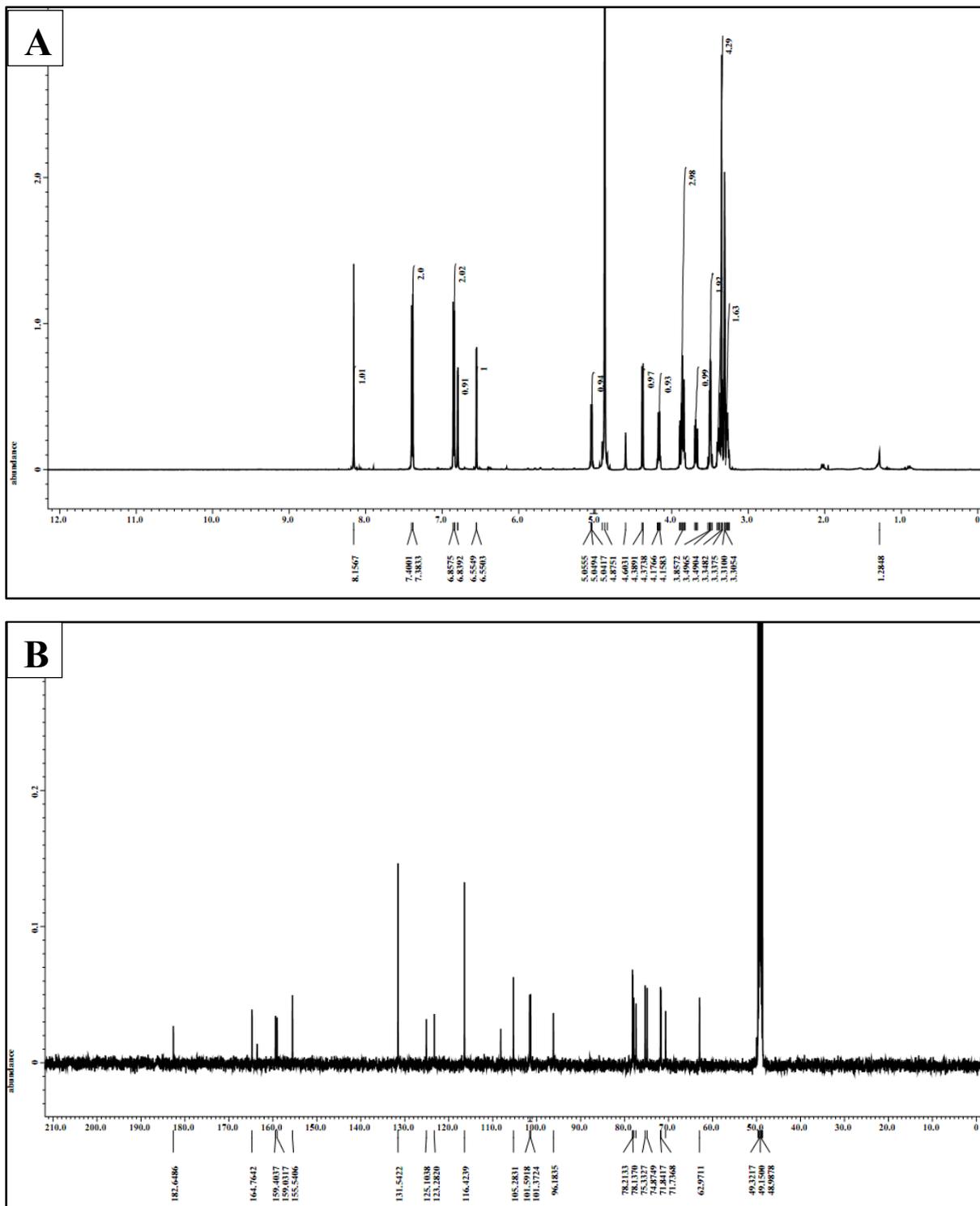


Figure S11.  $^1\text{H}$ (A) and  $^{13}\text{C}$ (B)-NMR of compound **9**.