

# Antibacterial and antioxidant activities of flavonoids, phenolic and flavonoid glycosides from *Gouania longispicata* leaves

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## SUPPLEMENTARY FILES

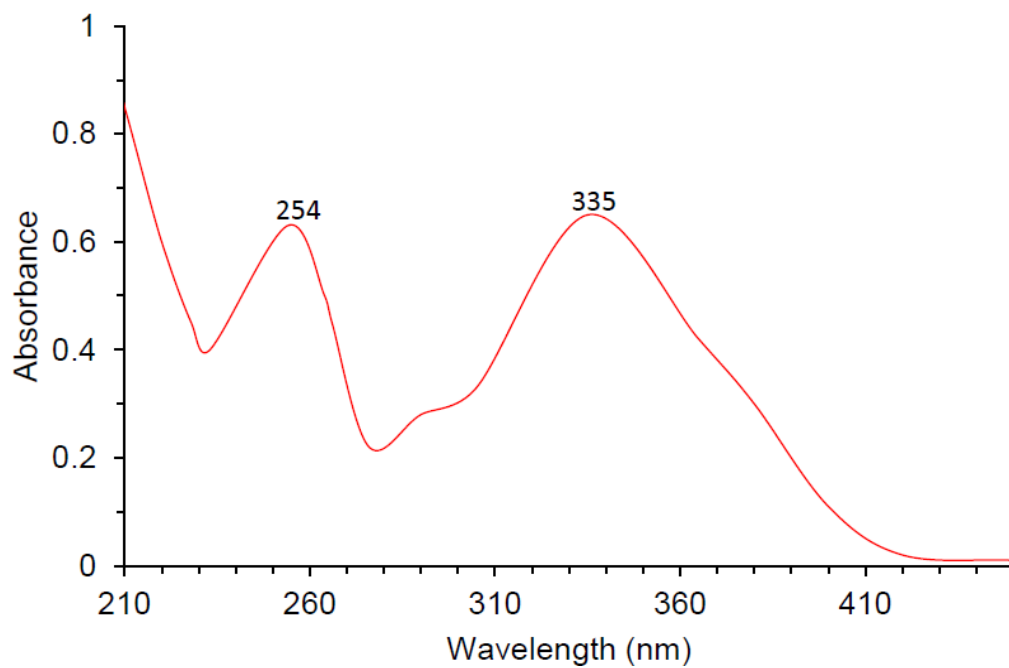


Figure S1. UV-Vis spectrum of compound 1.

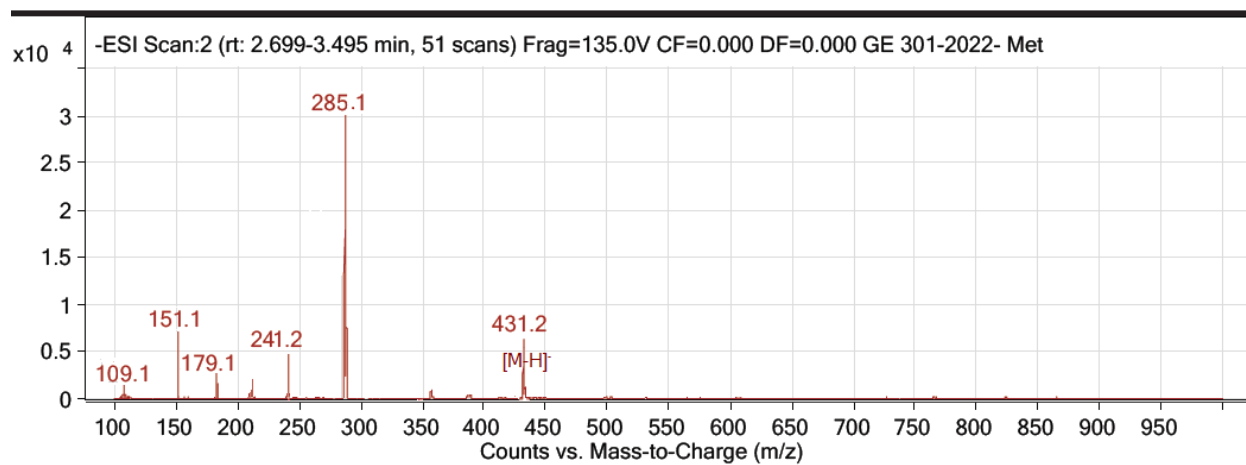


Figure S2. Mass spectrum of compound 1

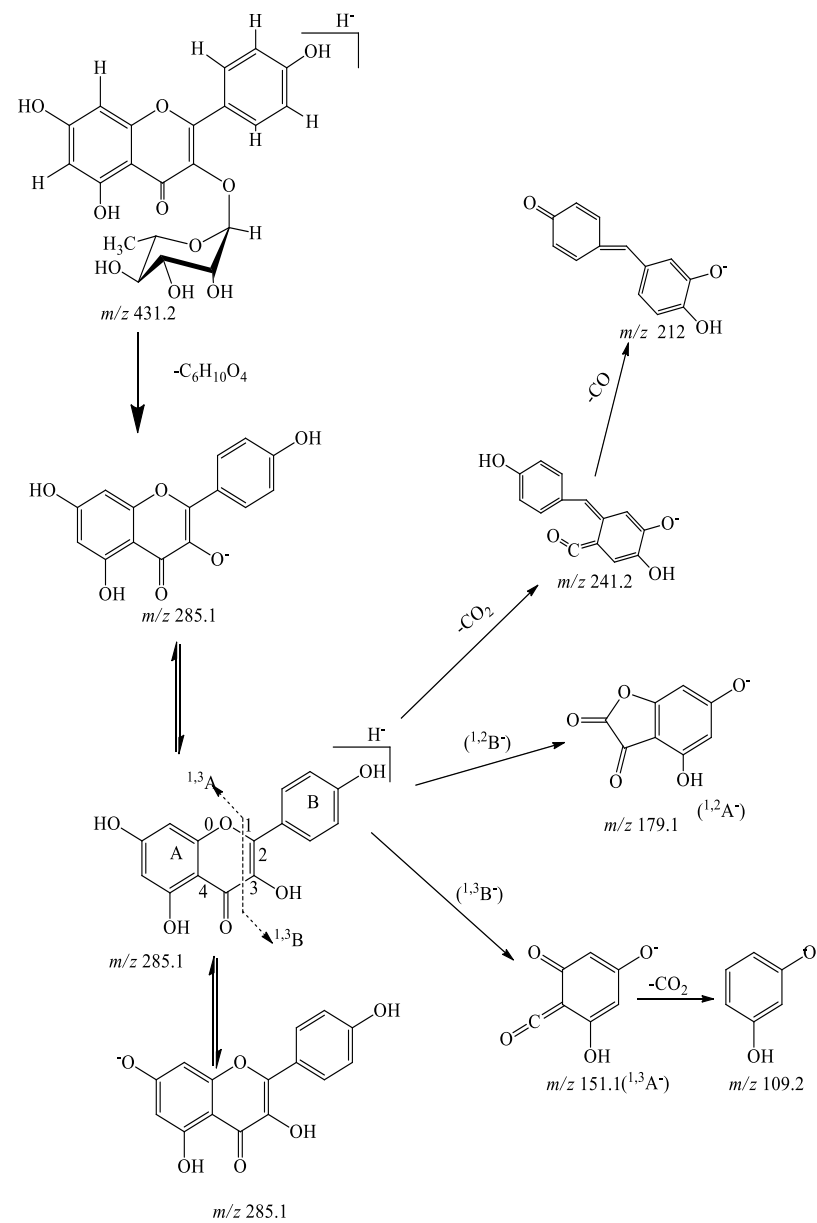


Figure S3. Fragmentation pattern of compound 1

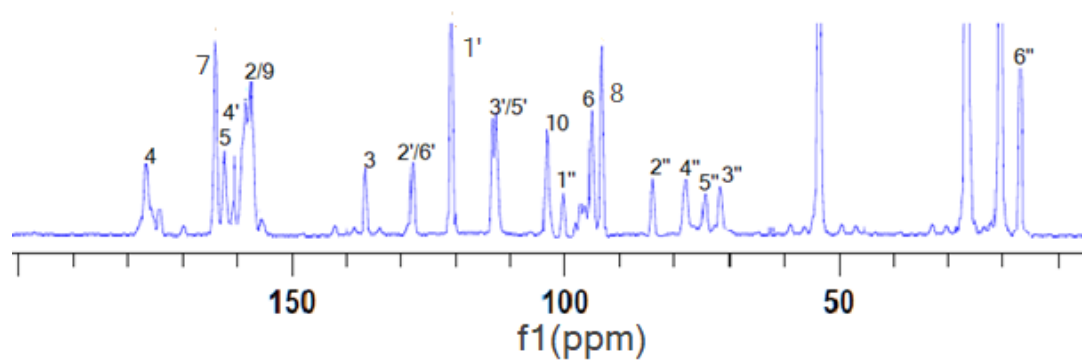


Figure S4. Expanded  $^{13}\text{C}$  NMR spectrum of compound **1**

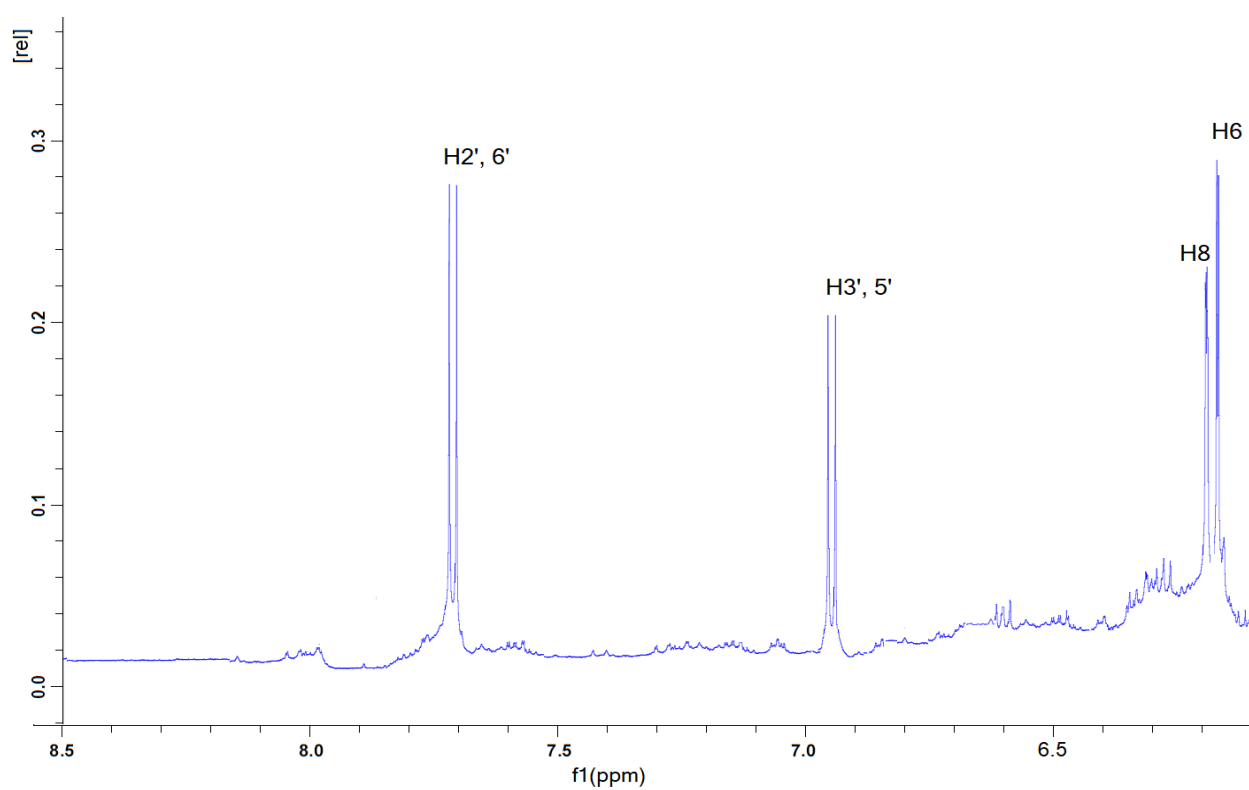


Figure S5.  $^1\text{H}$  NMR spectrum (aromatic region) of compound **1**

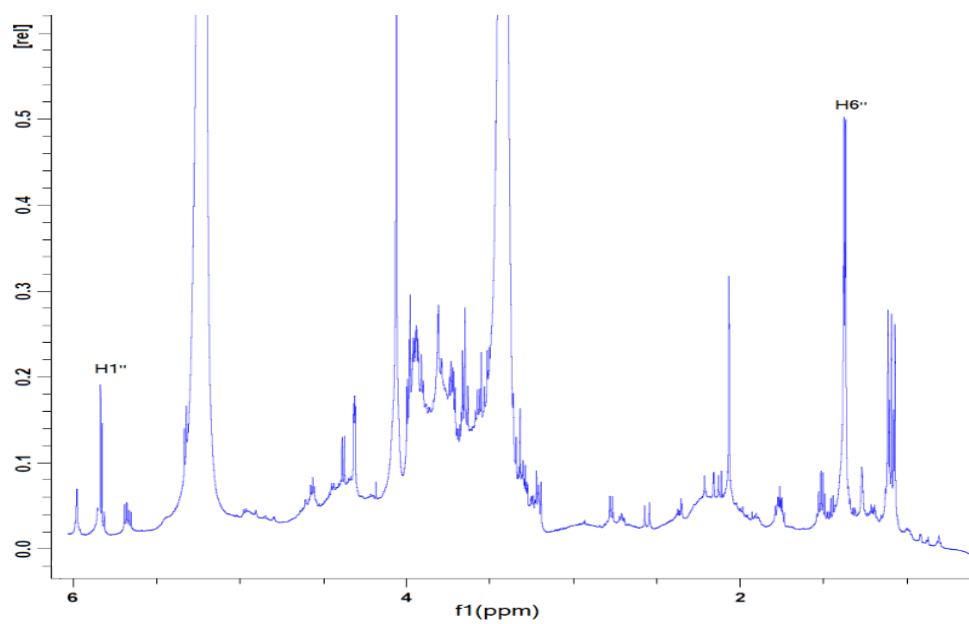


Figure S6.  $^1\text{H}$  NMR spectrum (sugar region) of compound 1

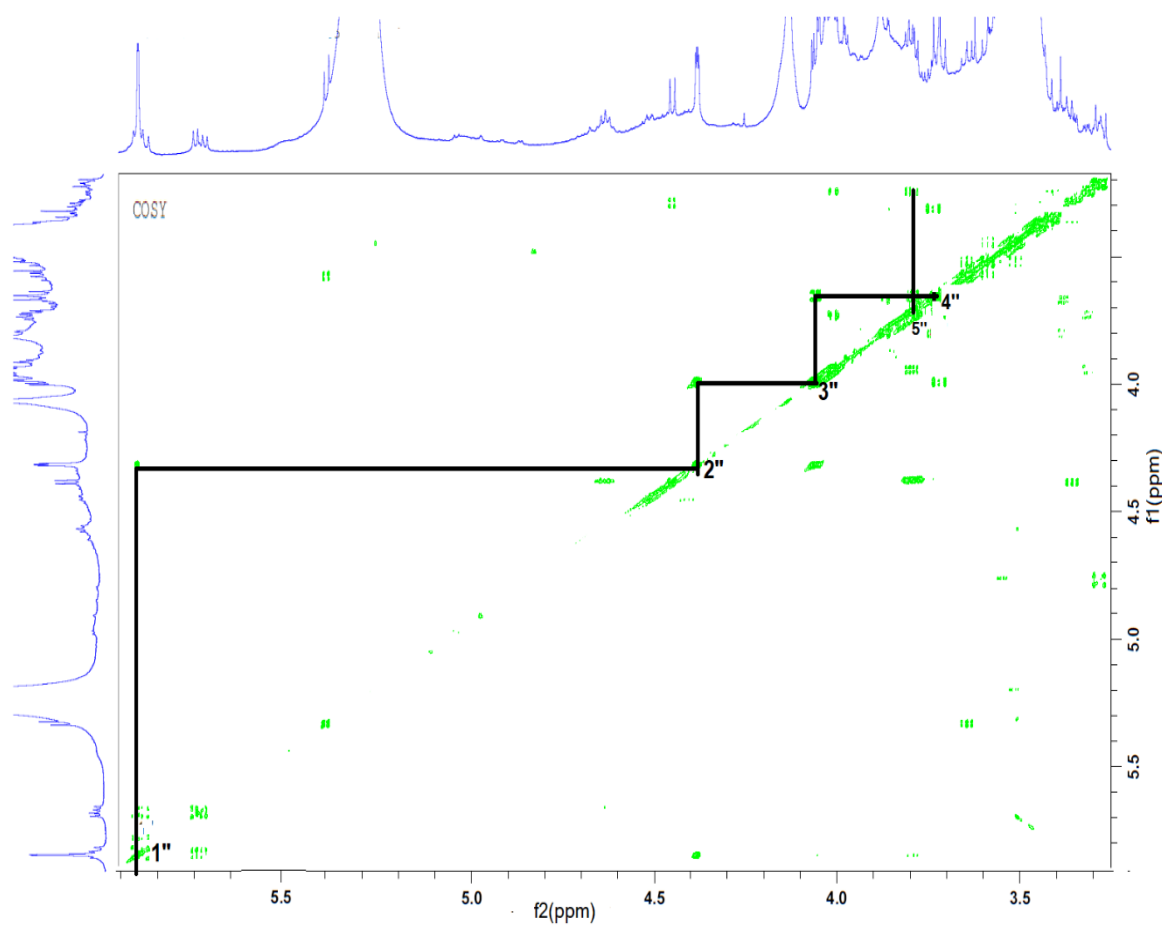


Figure S7. COSY spectrum of compound 1

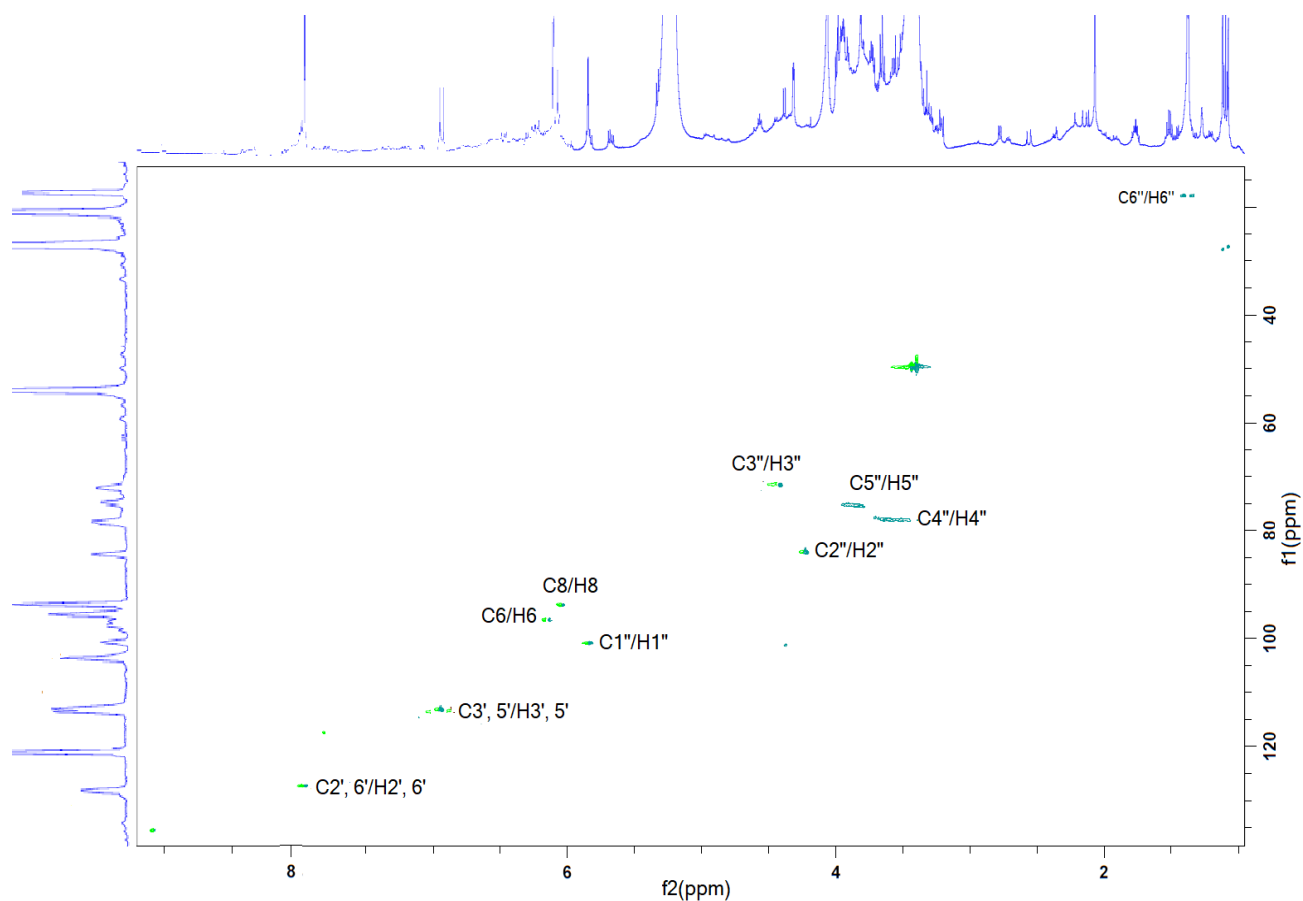


Figure S8. The  $^1\text{H}$ - $^{13}\text{C}$  HSQC spectrum of compound **1**

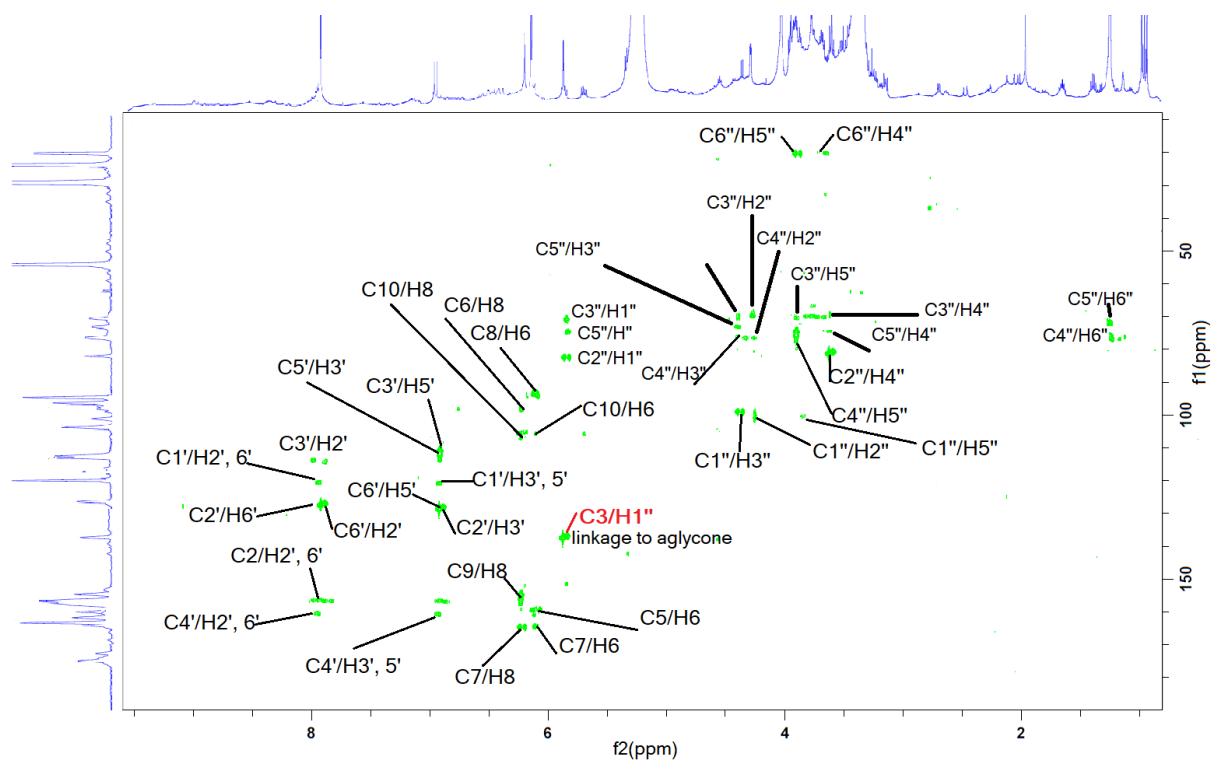


Figure S9. The  $^1\text{H}$ - $^{13}\text{C}$  HMBC spectrum of compound **1**

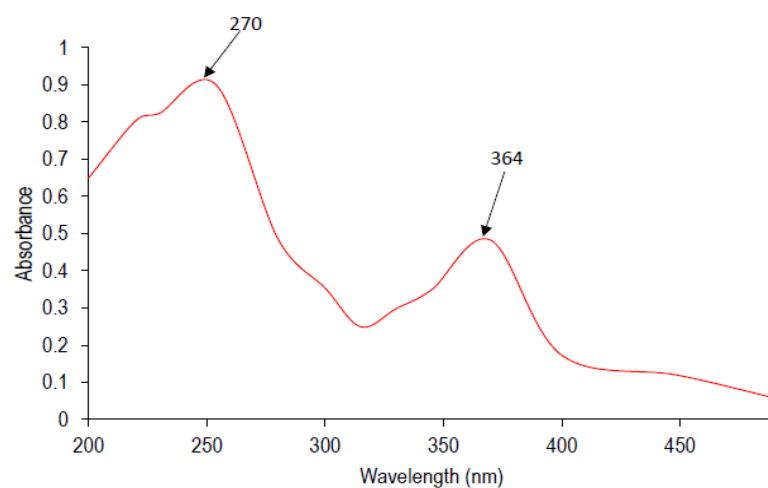


Figure S10. UV-Vis spectrum of compound 2.

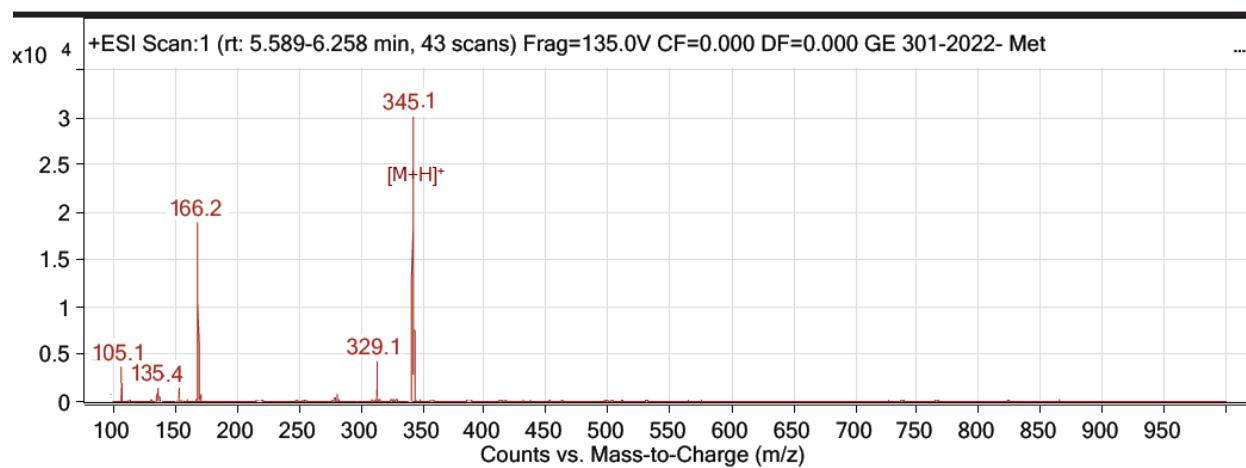


Figure S11. Mass spectrum of compound 2

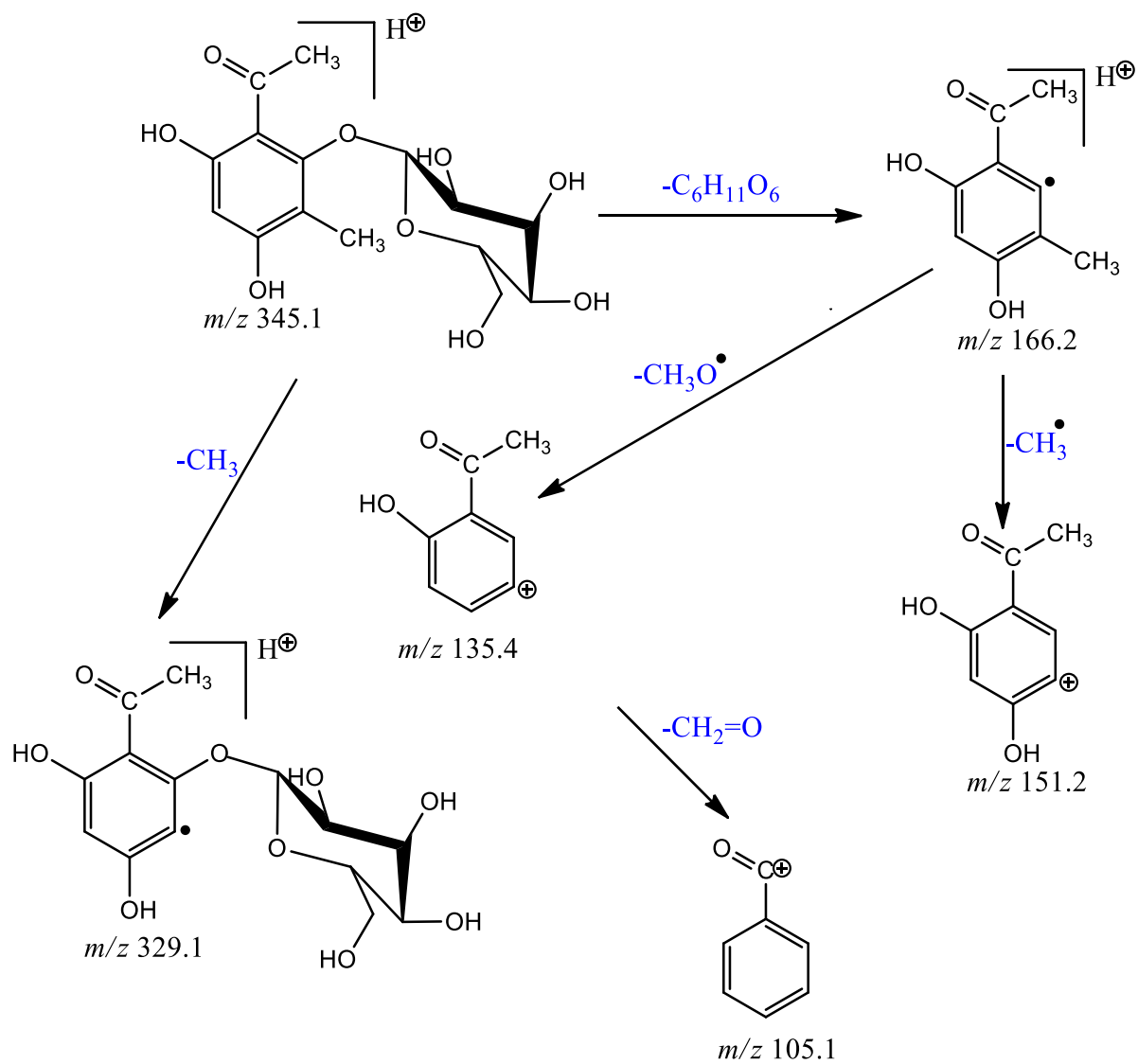


Figure S12. Fragmentation pattern of compound 2



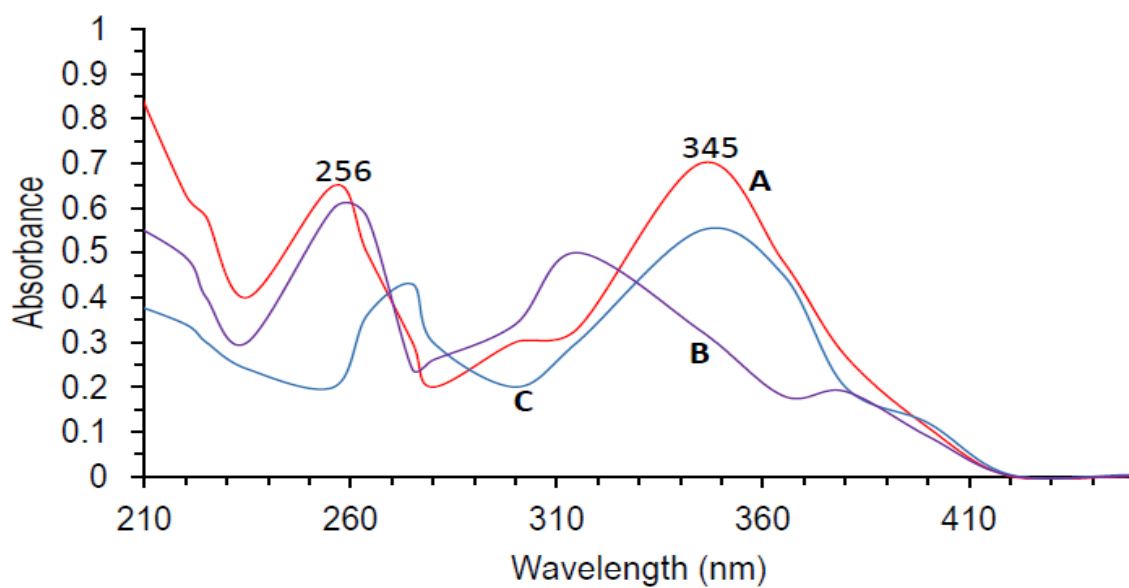


Figure S13. UV-Vis spectrum of compound 3 in (A) methanol, (B) sodium ethoxide, and (C) sodium acetate/methanol solution.

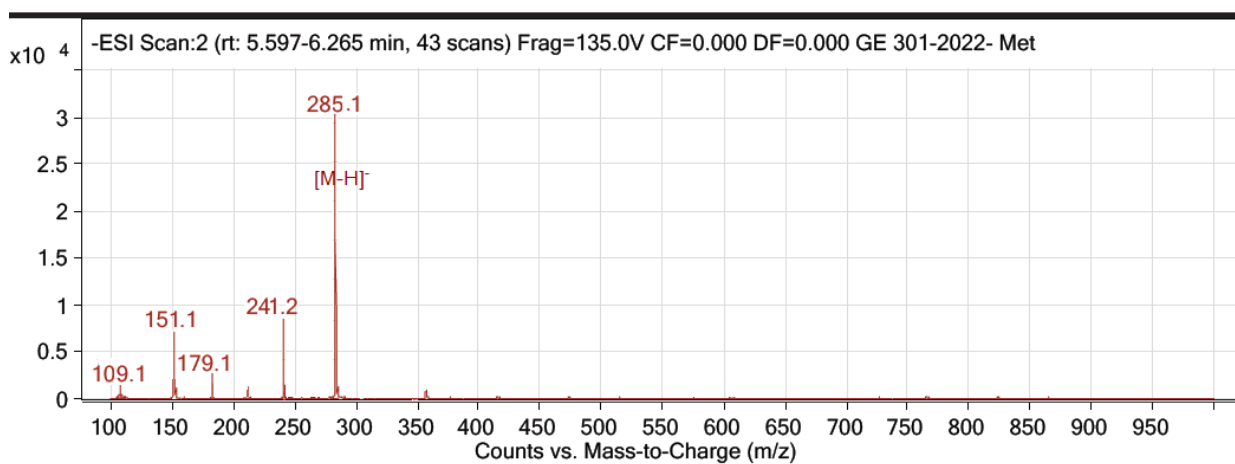


Figure S14. Mass spectrum of compound 3

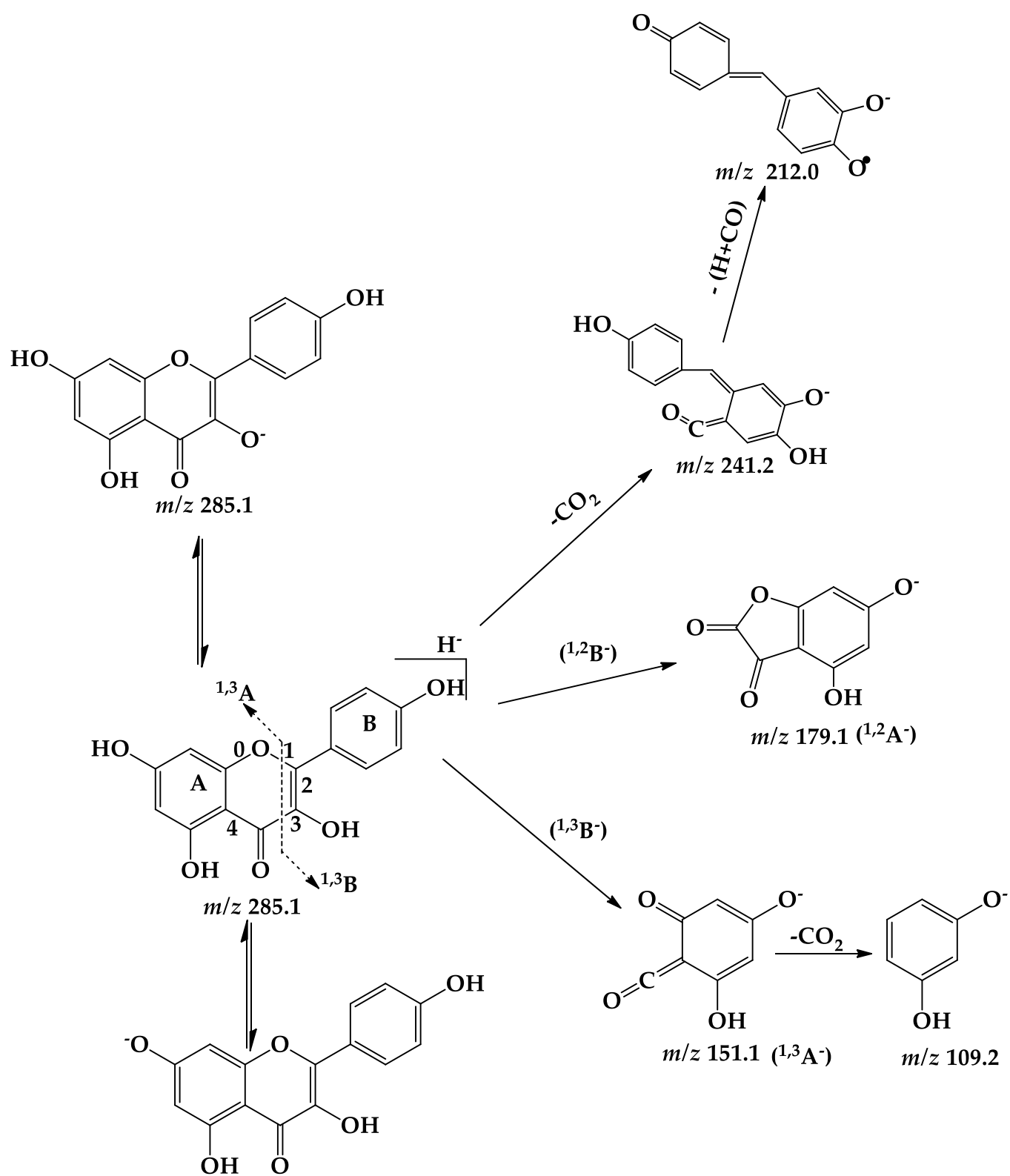


Figure S15. Fragmentation pattern of compound 3

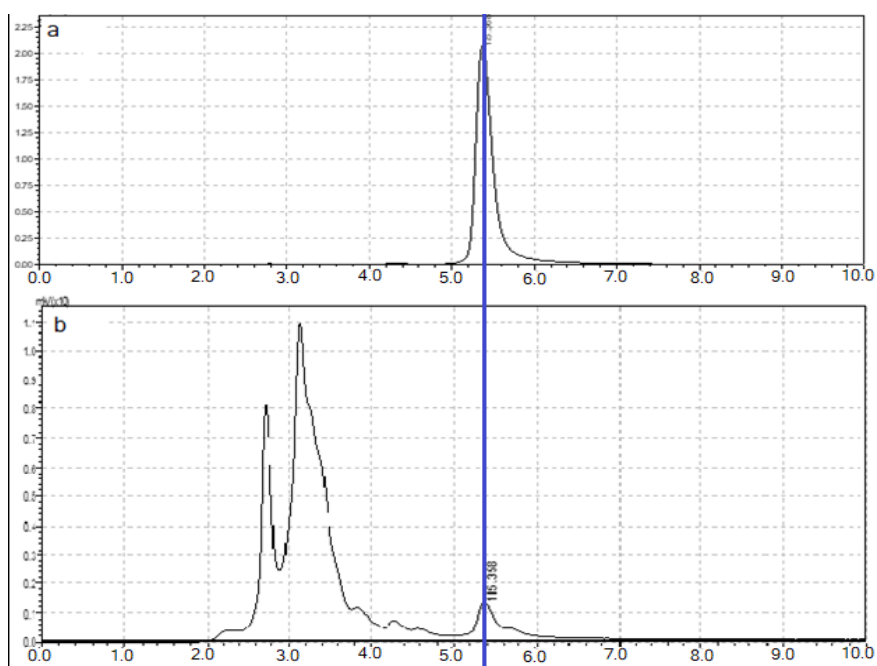


Figure S16. HPLC profile peak-matching of (a) kaempferol standard with (b) methanolic extract of GLE.

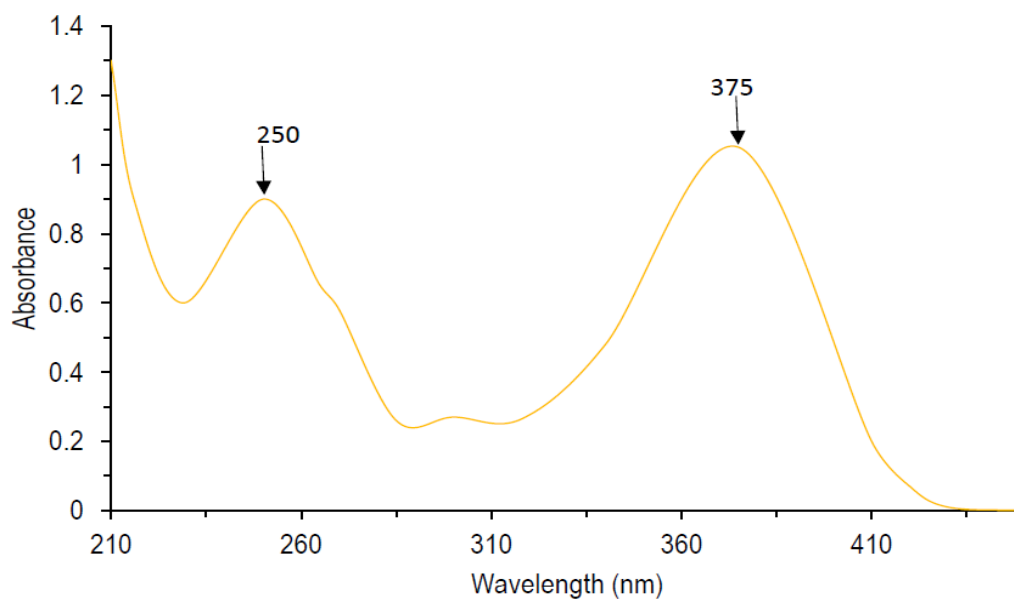


Figure S17. UV-Vis spectrum of compound 4

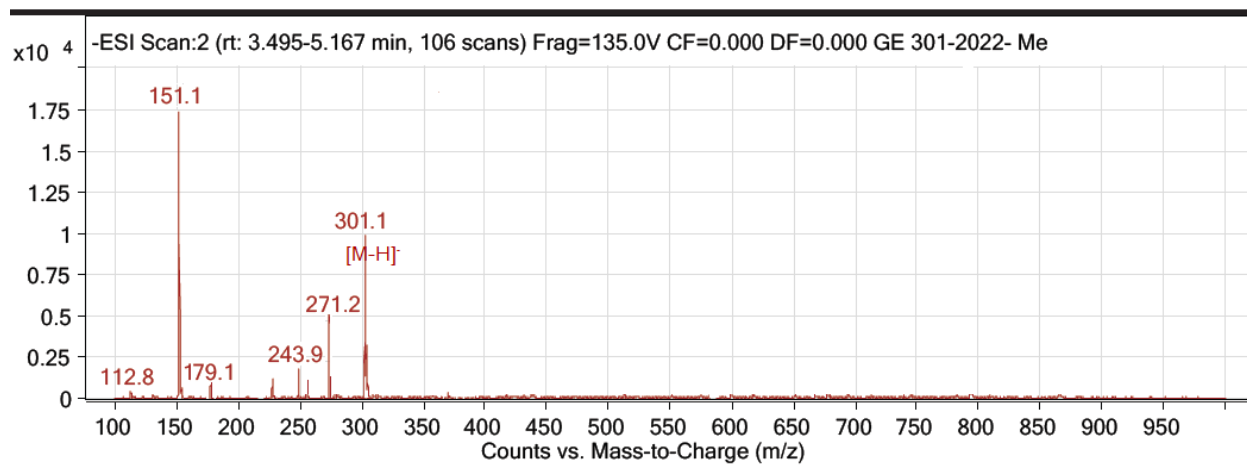


Figure S18. Mass spectrum of compound 4

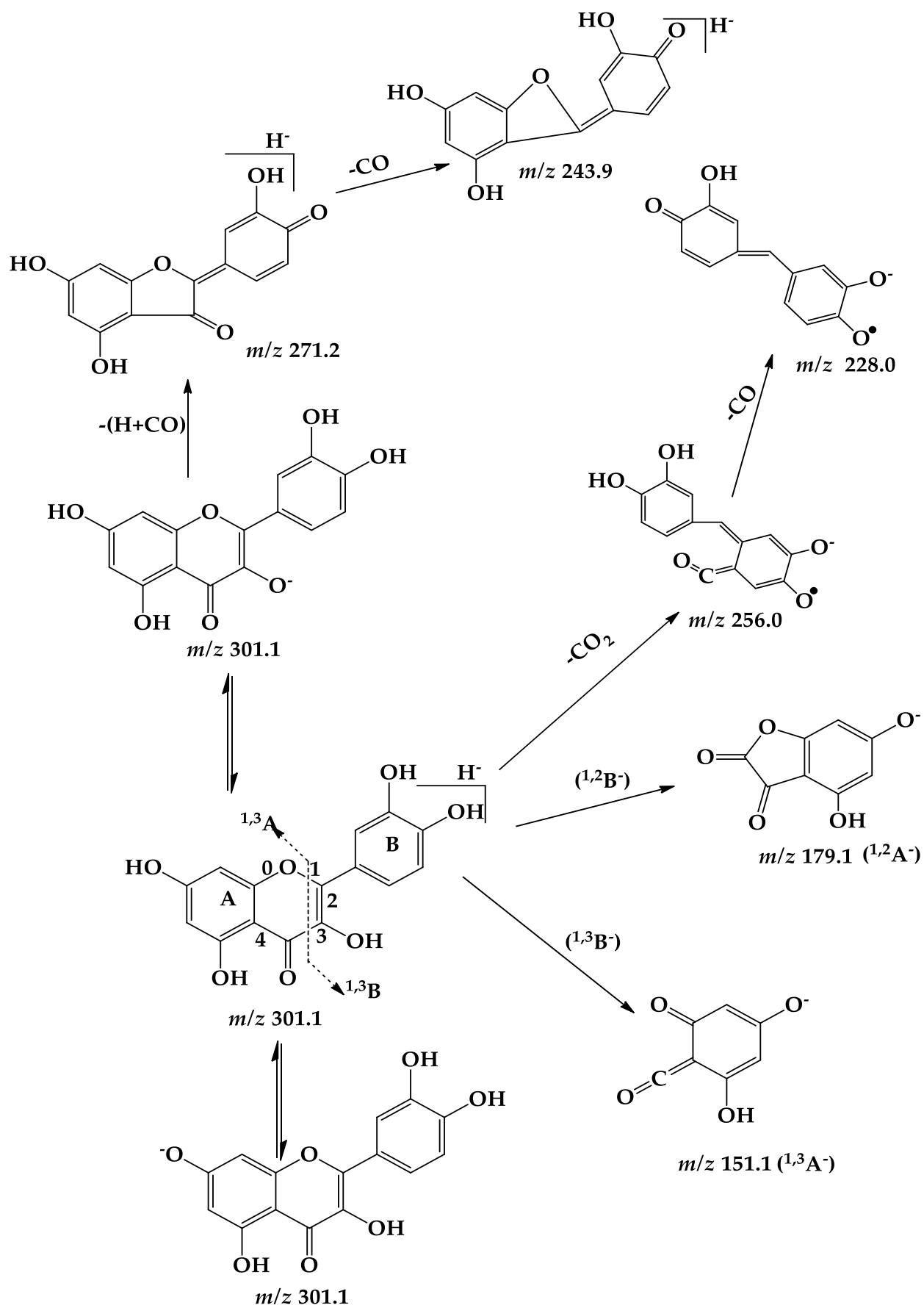


Figure S19. Fragmentation pattern of compound 4

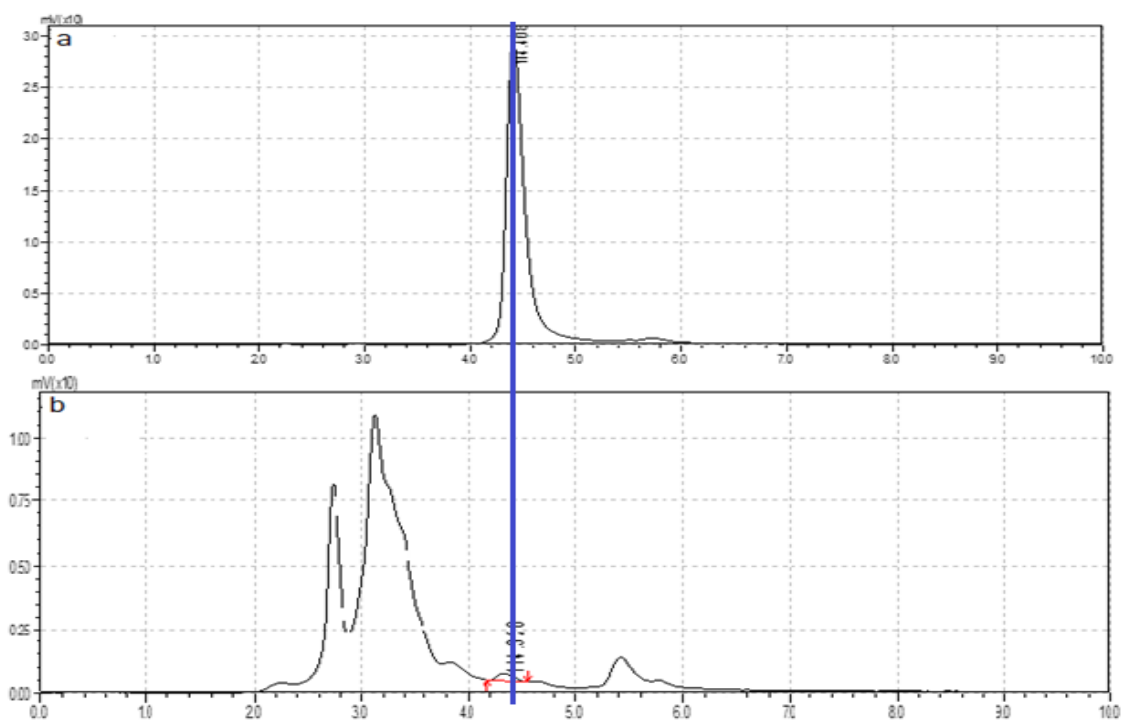


Figure S20. HPLC profile peak-matching of (a) standard quercetin with (b) methanolic extract of GLE.

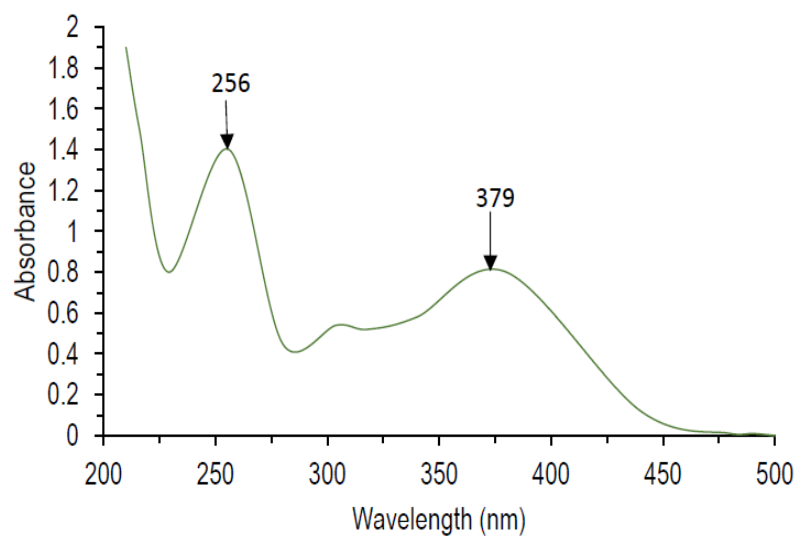


Figure S21. UV-Vis spectrum of compound 5

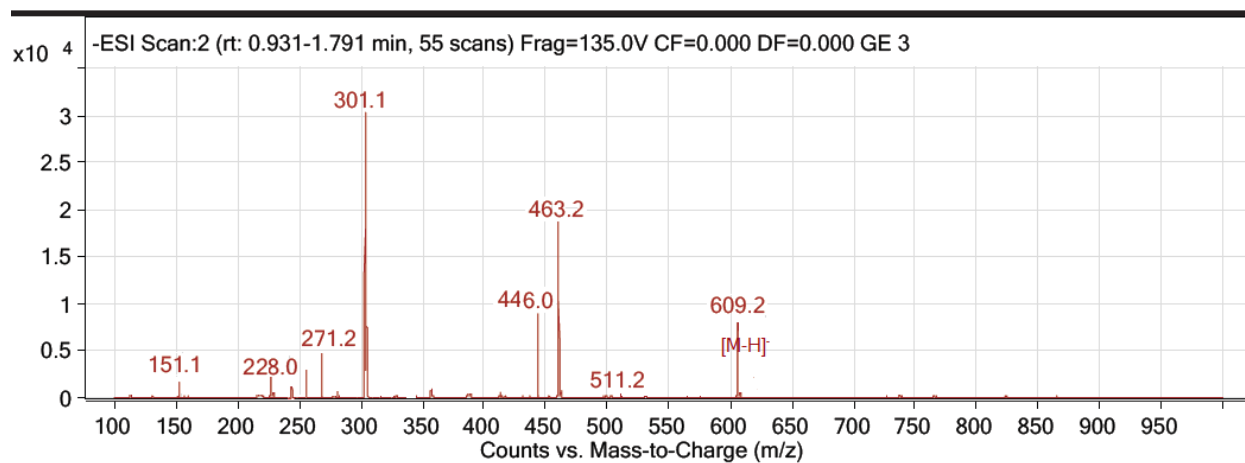


Figure S22. Mass spectrum of compound 5

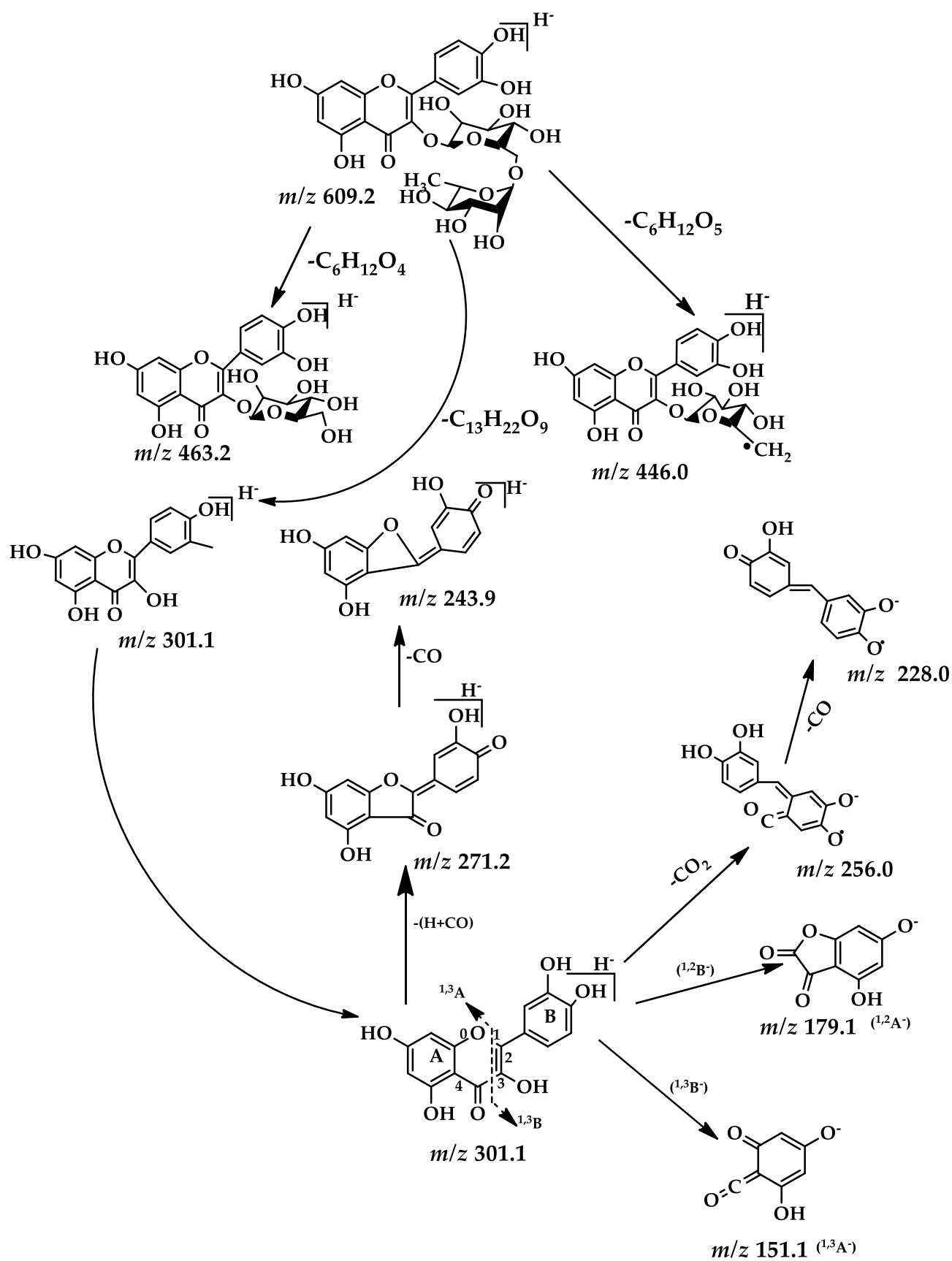


Figure S23. Fragmentation pattern of compound 5