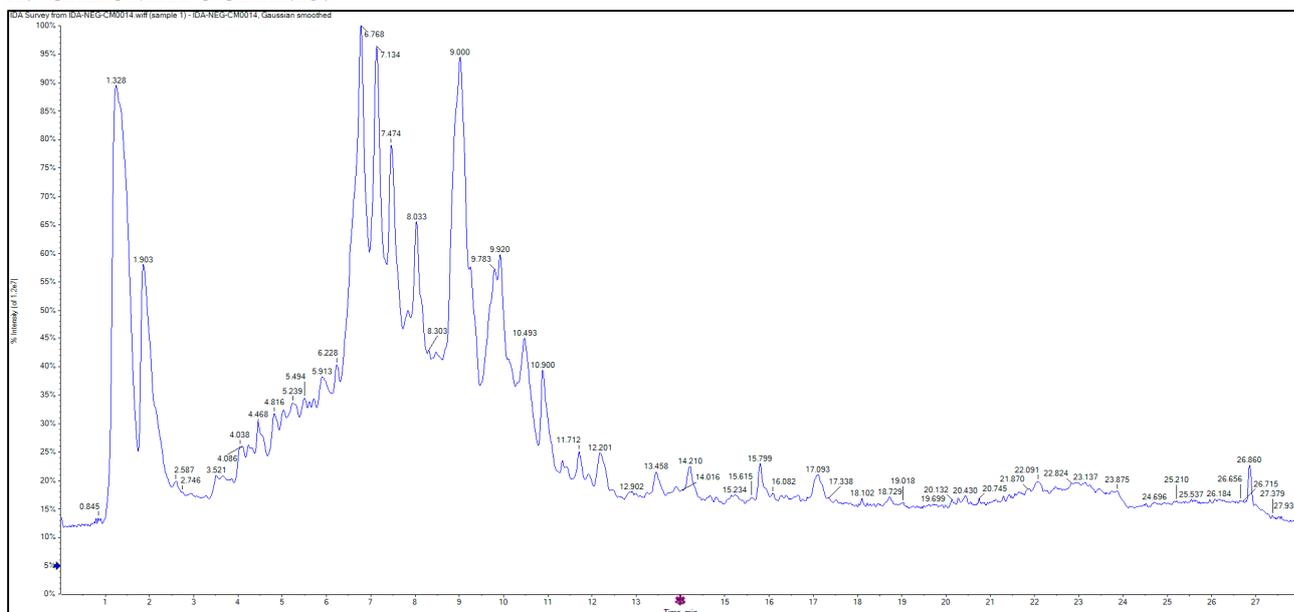


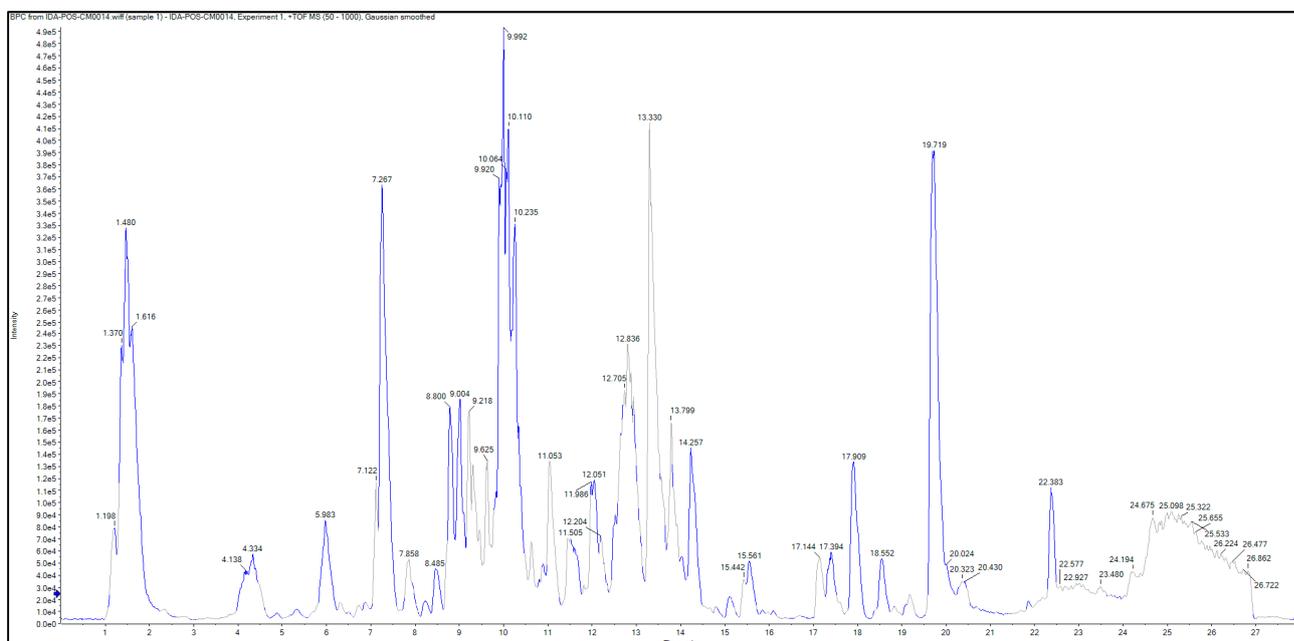
## Supplementary Materials

**Title:** Phytochemical profiling, *in vitro* and *in silico* anti-microbial and anti-cancer activity evaluations, and Staph-GyraseB and *h*-TOP-II $\beta$  receptor-docking studies of major constituents of *Zygophyllum coccineum* L. aqueous-ethanolic extract and its subsequent fractions: An approach to validate traditional phytomedicinal knowledge

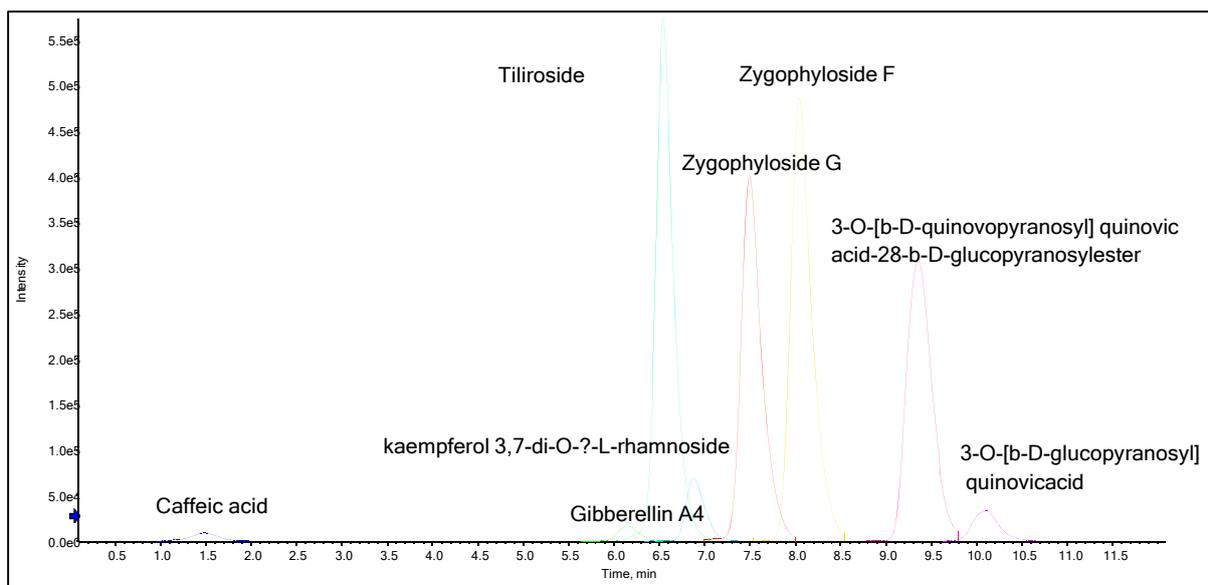
### A. CHROMATOGRAMS:



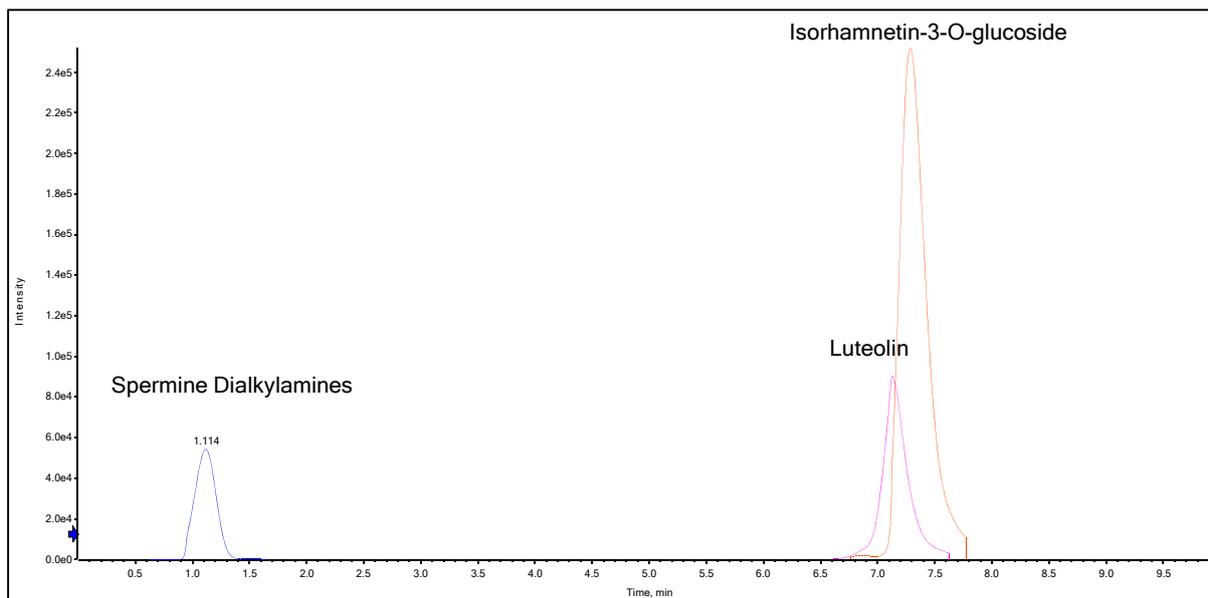
**Figure S1:** -ESI-TOF-MS negative ion mode mass analysis-LC Chromatogram of *Z. coccineum* mother liquor, aq.-ethanolic extract



**Figure S2:** ESI-TOF-MS positive ion mode mass analysis-LC Chromatogram of *Z. coccineum* mother liquor, aq.-ethanolic extract

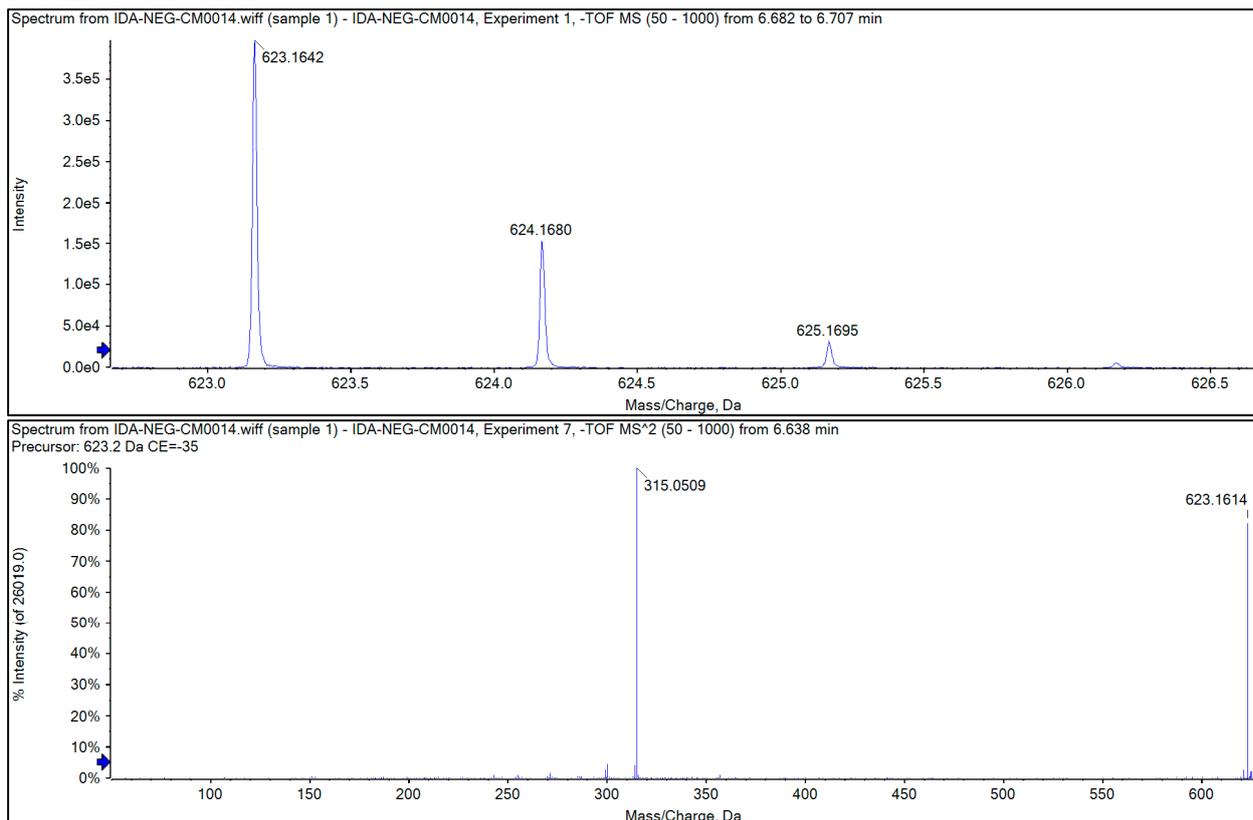


**Figure S3:** LC chromatogram of negative ion mode mass analysis for major constituents in *Z. coccineum* aq.-ethanolic extract

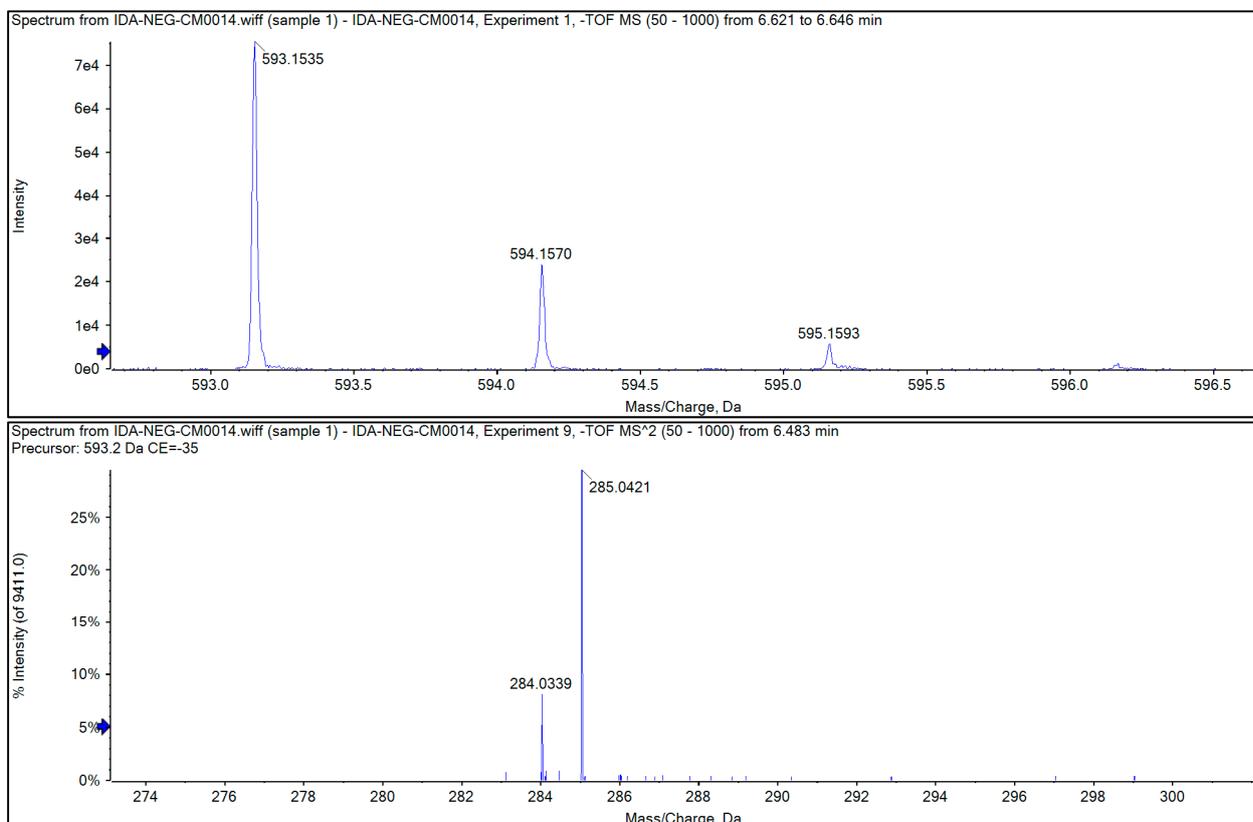


**Figure S4:** LC chromatogram of positive ion mode mass analysis for major constituents in *Z. coccineum* aq.-ethanolic extract

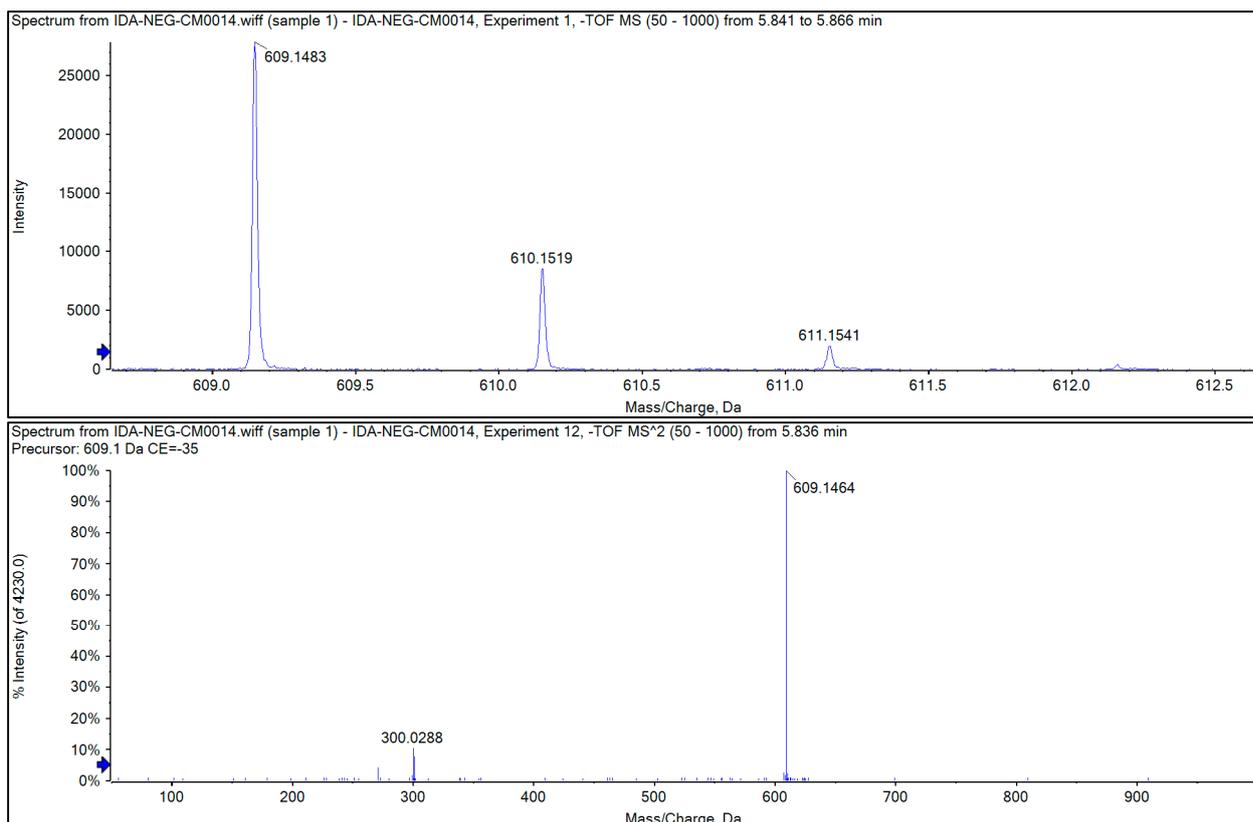
## B. MASS SPECTRA:



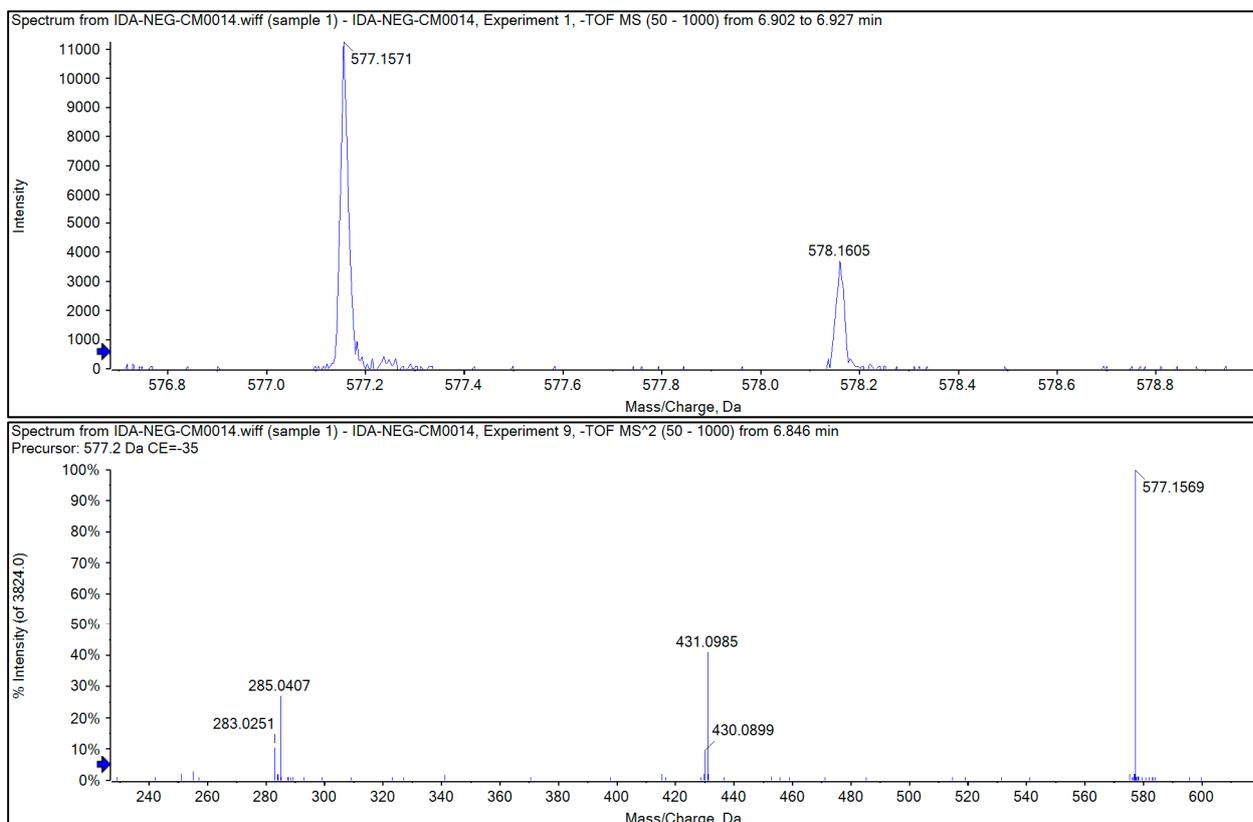
**Figure 5S:** Negative ion mode mass fragmentation of Isorhamnetin-3-O-rutinoside



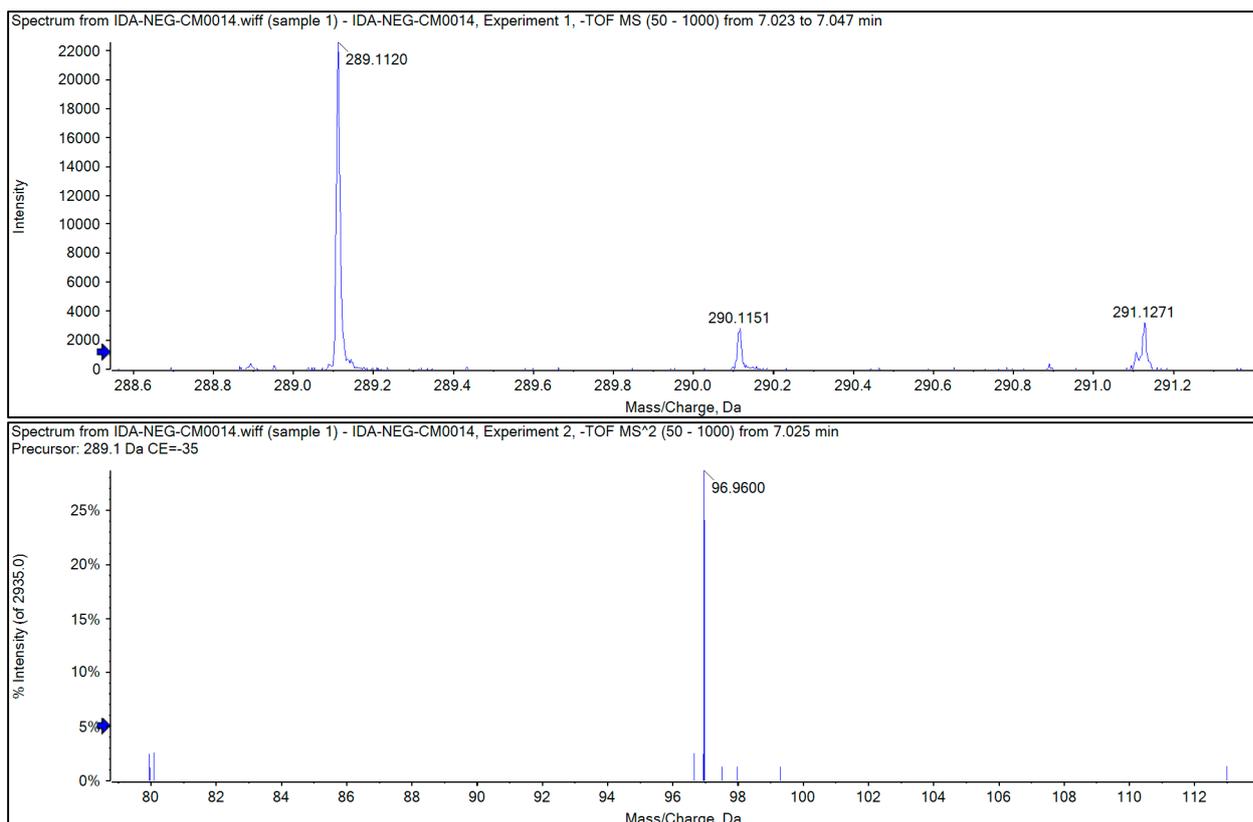
**Figure 6S:** Negative ion mode mass fragmentation of Kaempferol-3-O-(6'''-*p*-coumaroyl)-glucoside



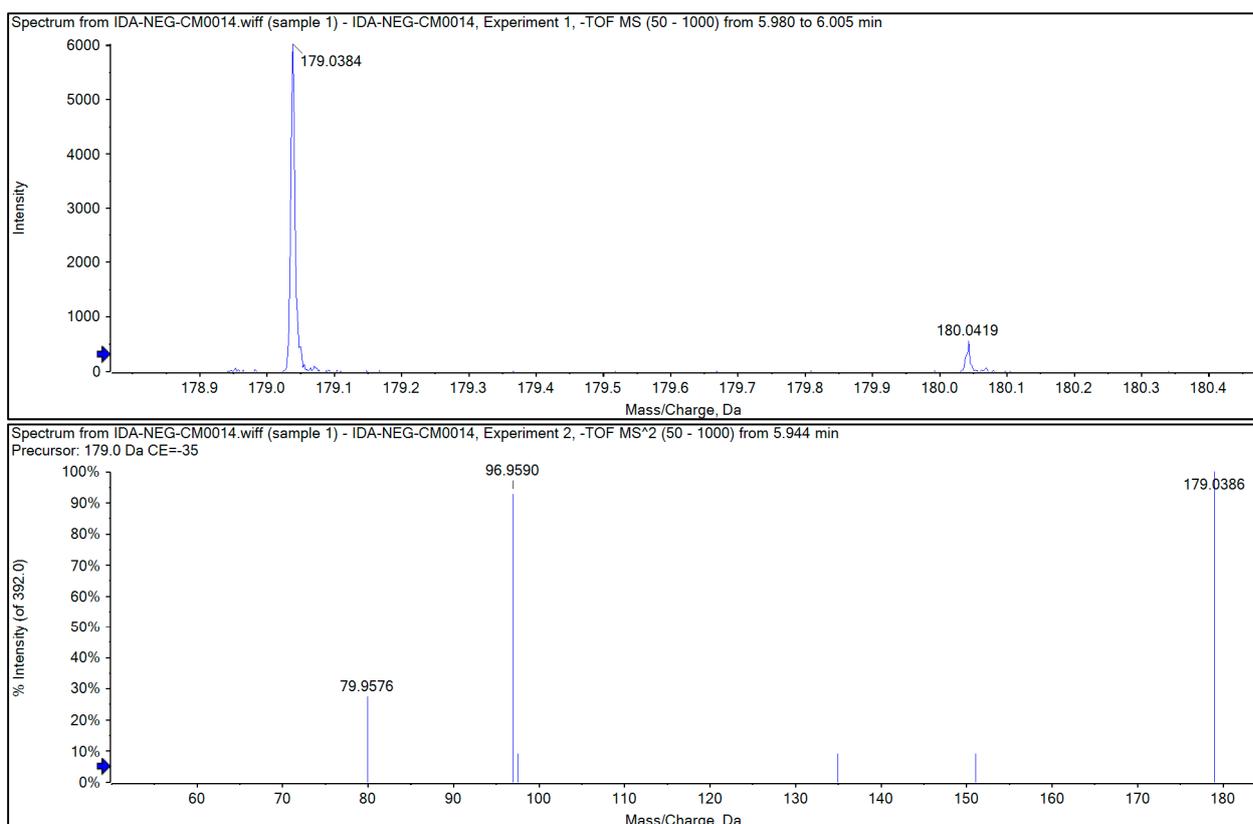
**Figure 7S:** Negative ion mode mass fragmentation of Delphinidin-3-O-(6''-O- $\alpha$ -rhamnopyranosyl)- $\beta$ -glucopyranoside)



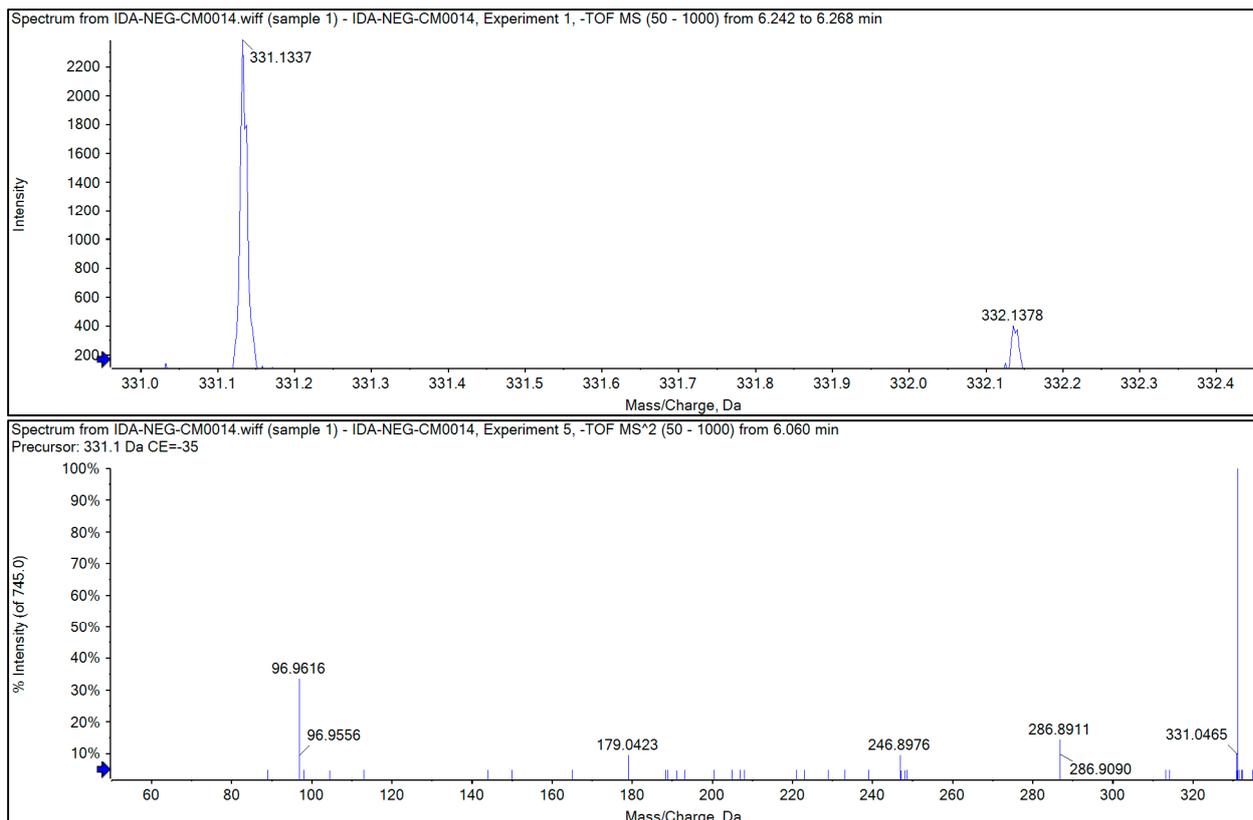
**Figure 8S:** Negative ion mode mass fragmentation of Kaempferol-3,7-O-bis- $\alpha$ -L-rhamnoside



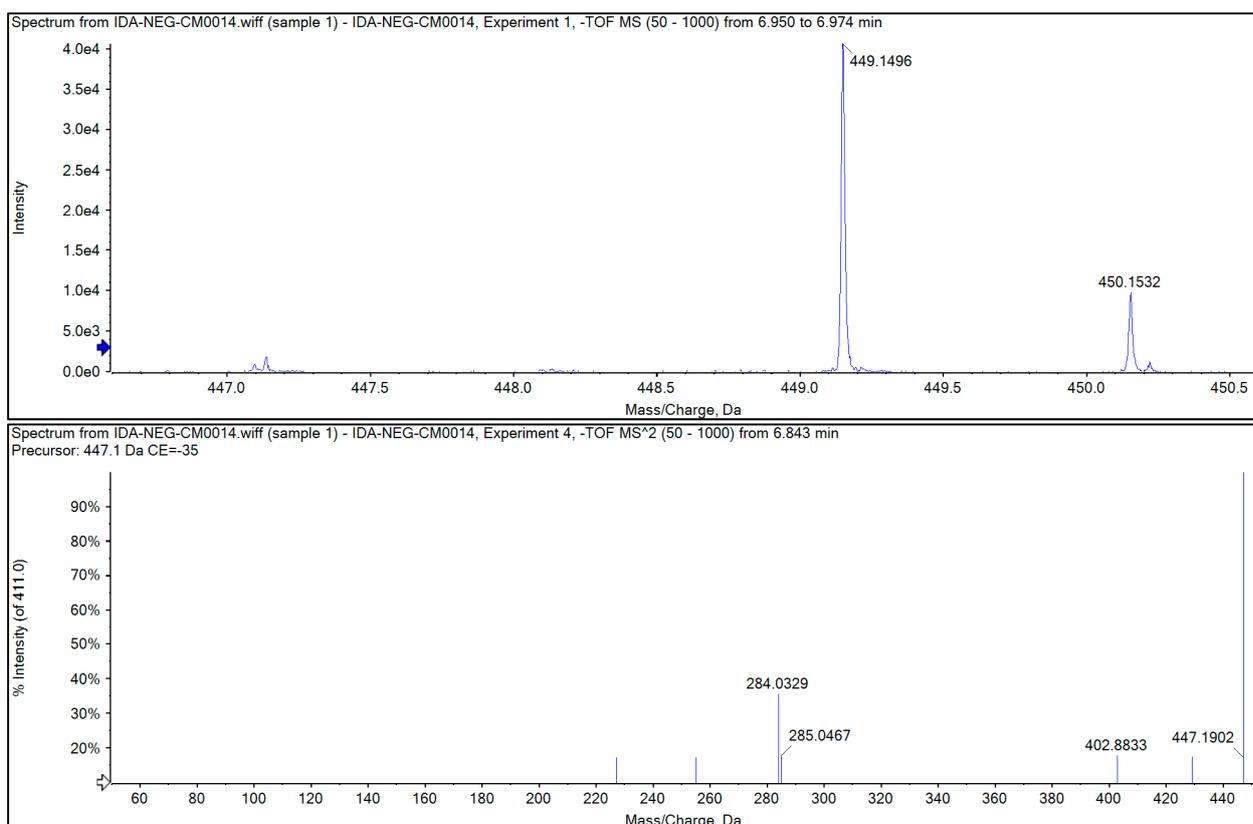
**Figure 9S:** Negative ion mode mass fragmentation of Quercetin



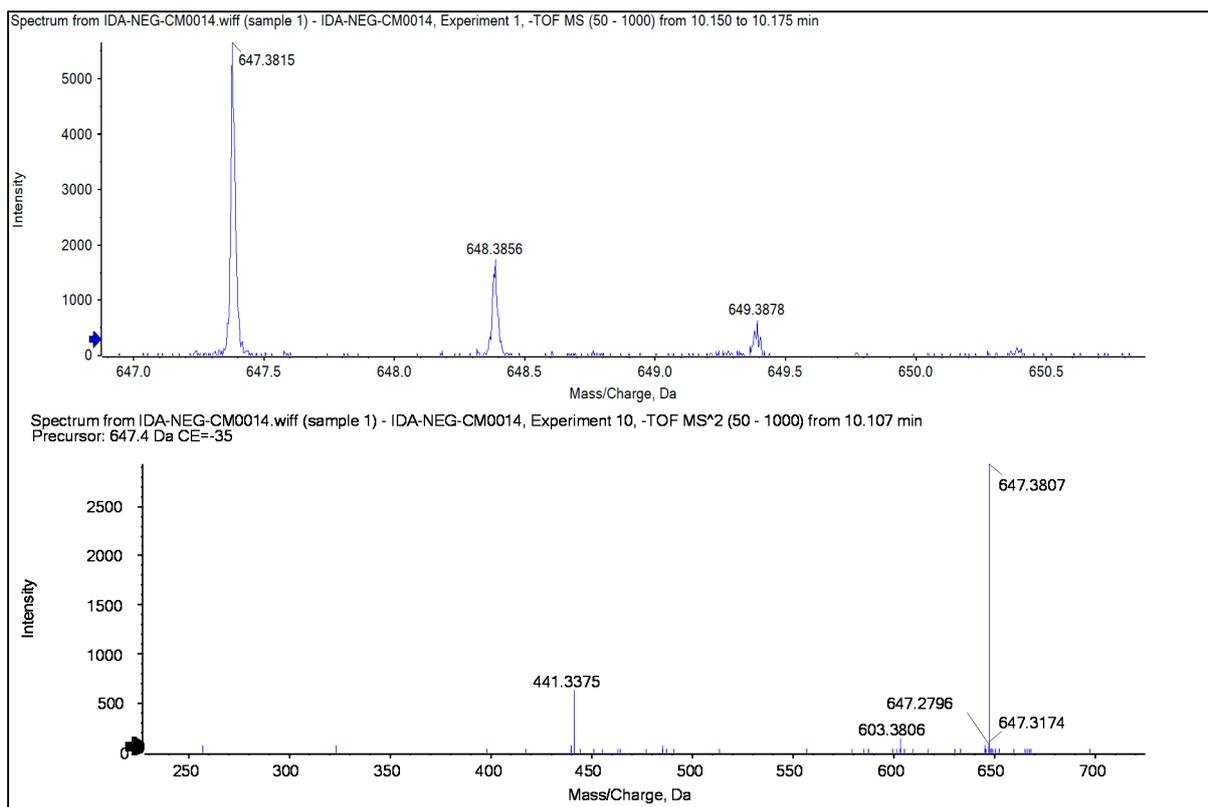
**Figure 10S:** Negative ion mode mass fragmentation of Caffeic acid



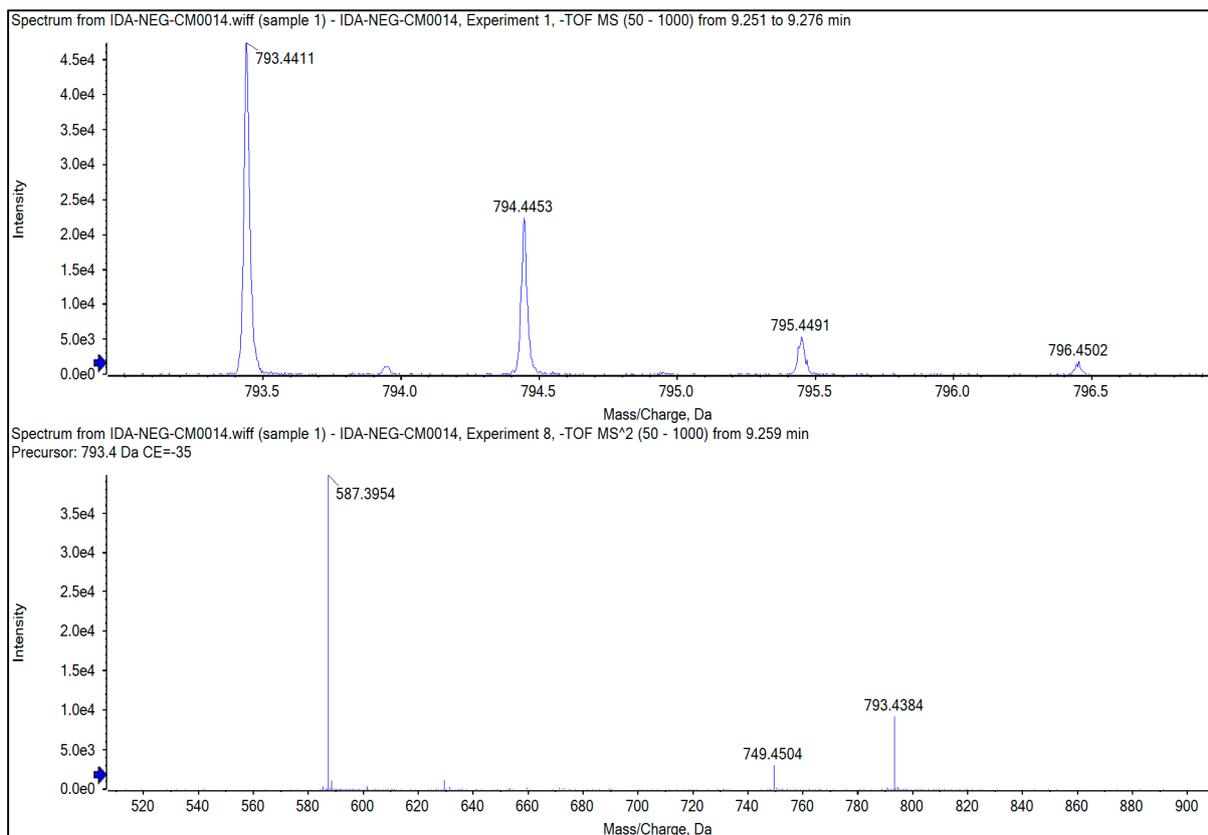
**Figure 11S:** Negative ion mode mass fragmentation of Gibberellin-A4



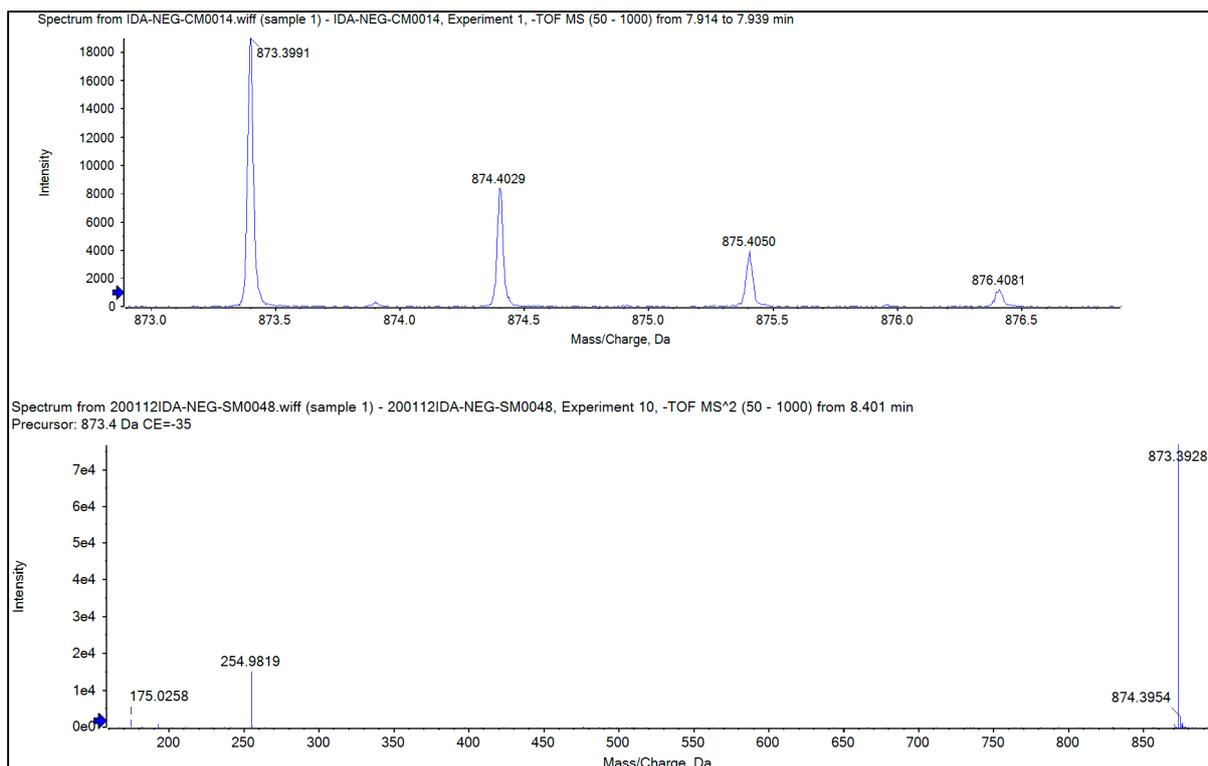
**Figure 12S:** Negative ion mode mass fragmentation of Kaempferol-3-O-glucoside



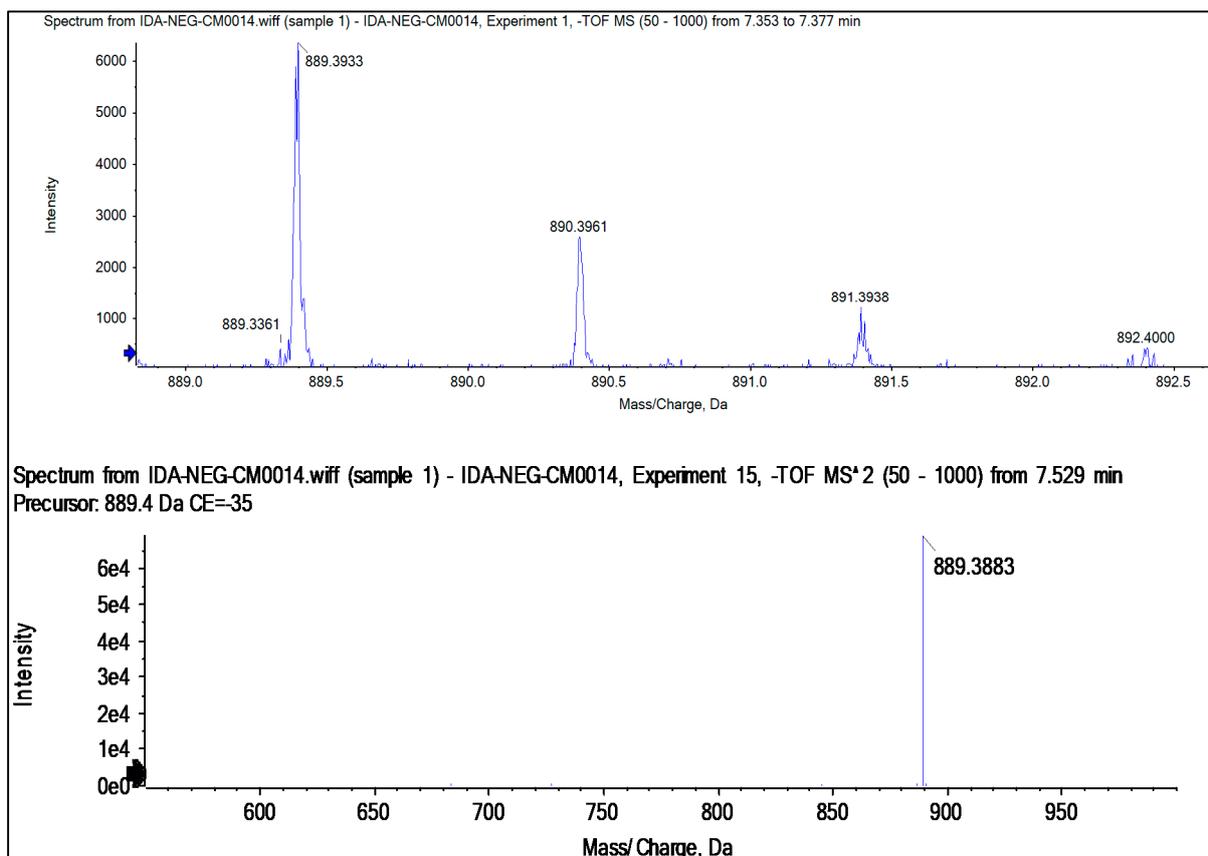
**Figure 13S:** Negative ion mode mass fragmentation of 3-O-[ $\beta$ -D-glucopyranosyl] quinovic acid



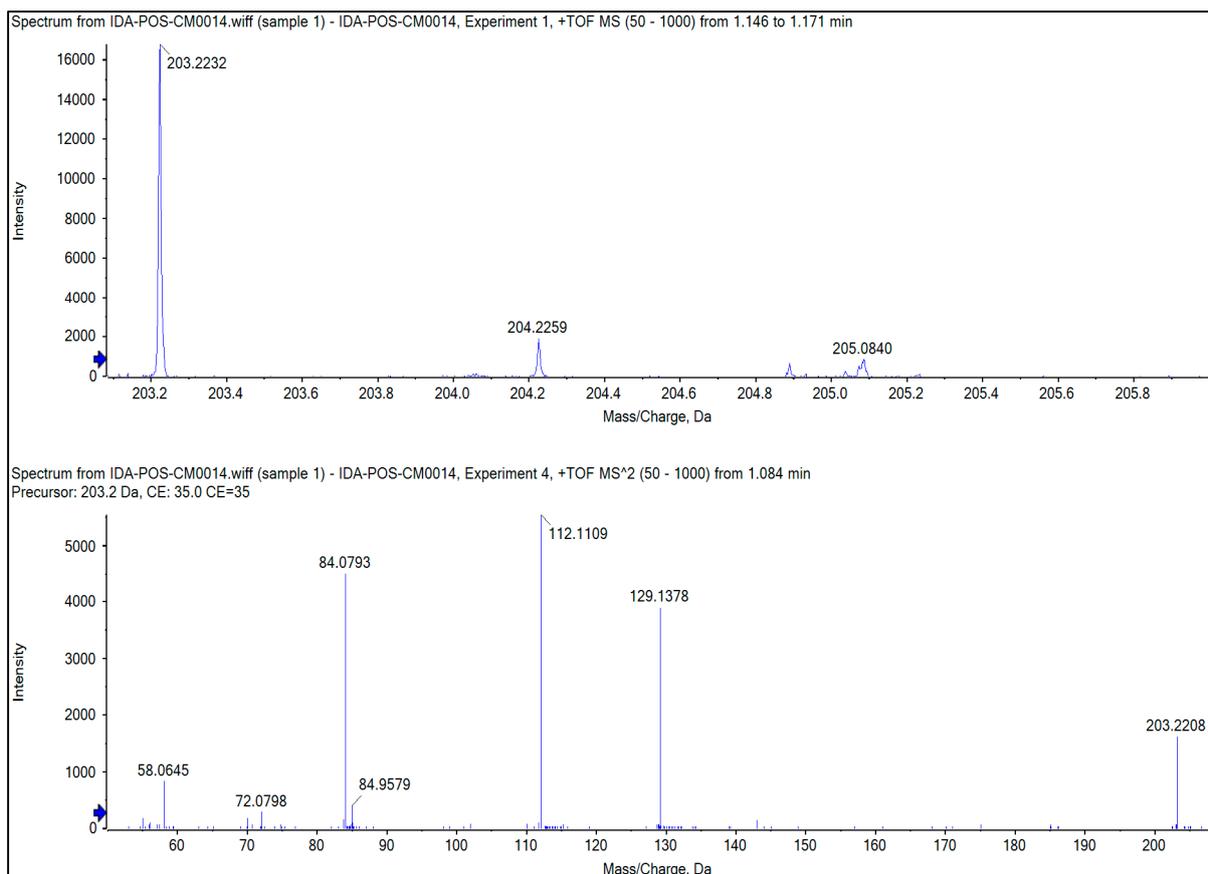
**Figure 14S:** Negative ion mode mass fragmentation of 3-O-[ $\beta$ -D-quinovopyranosyl] quinovic acid-28- $\beta$ -D-glucopyranosyl ester



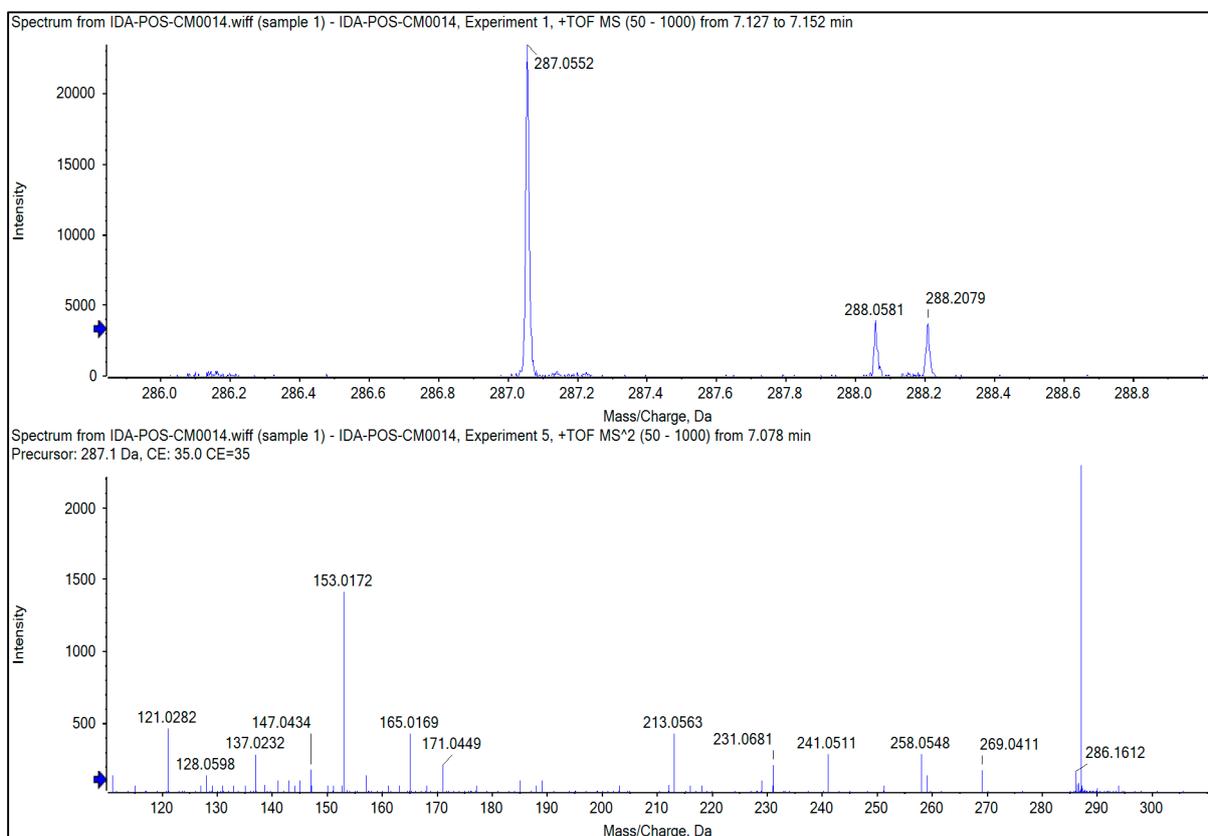
**Figure 15S:** Negative ion mode mass fragmentation of Zygophyloside-F



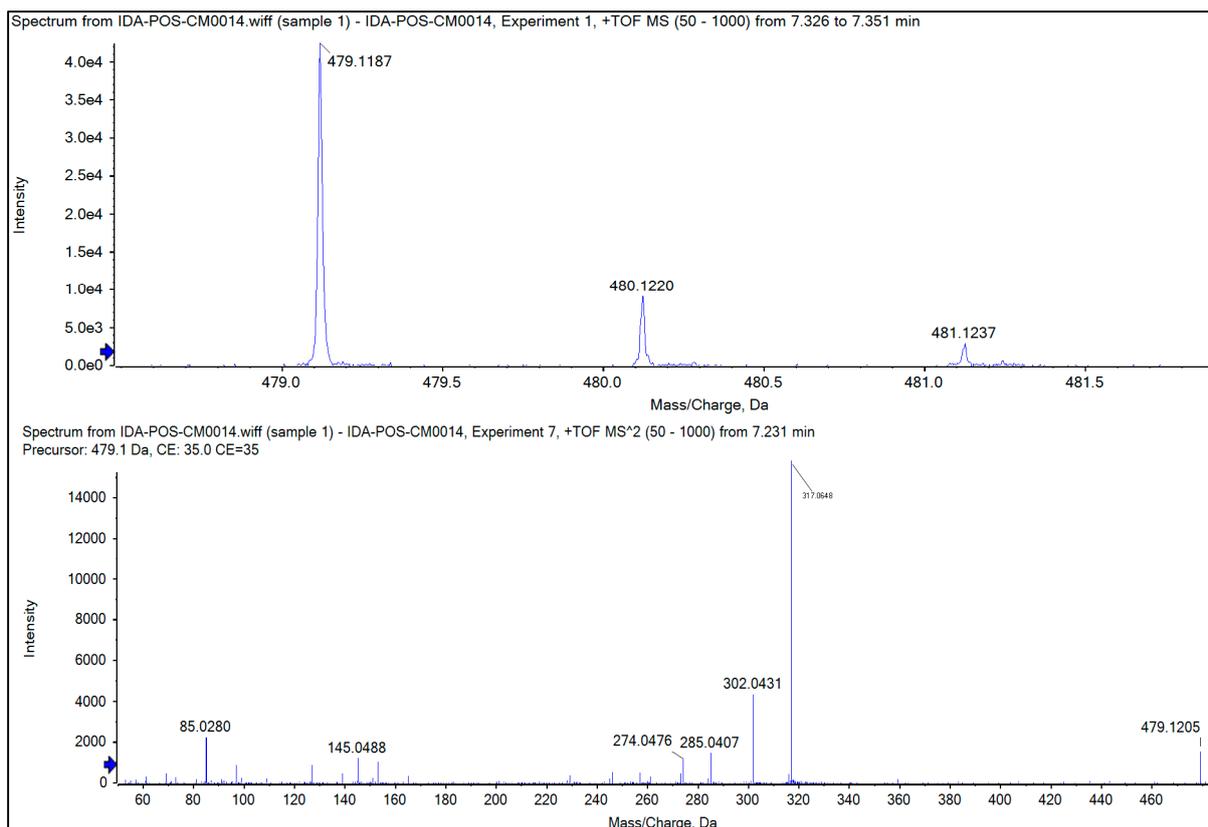
**Figure 16S:** Negative ion mode mass fragmentation of Zygophyloside-G



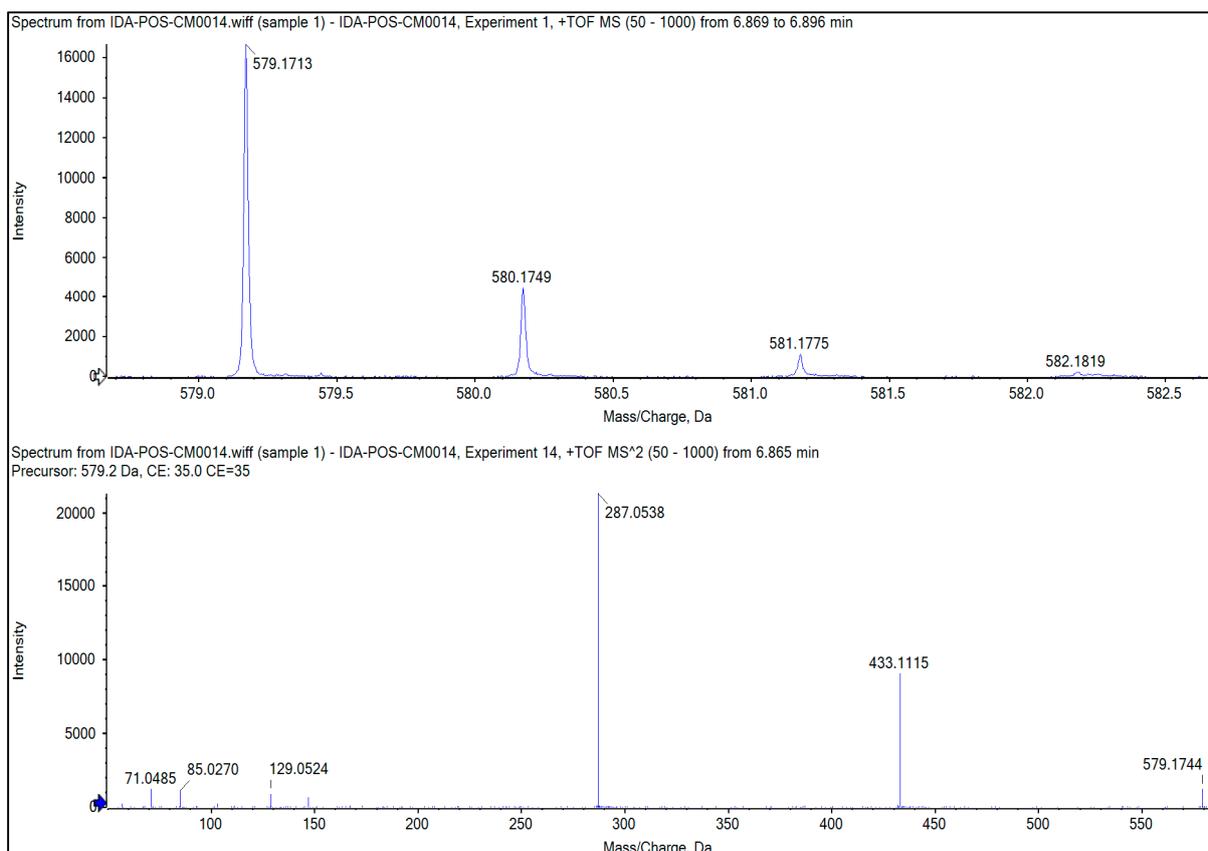
**Figure 17S:** Positive ion mode mass fragmentation of Spermine



**Figure 18S:** Positive ion mode mass fragmentation of Luteolin

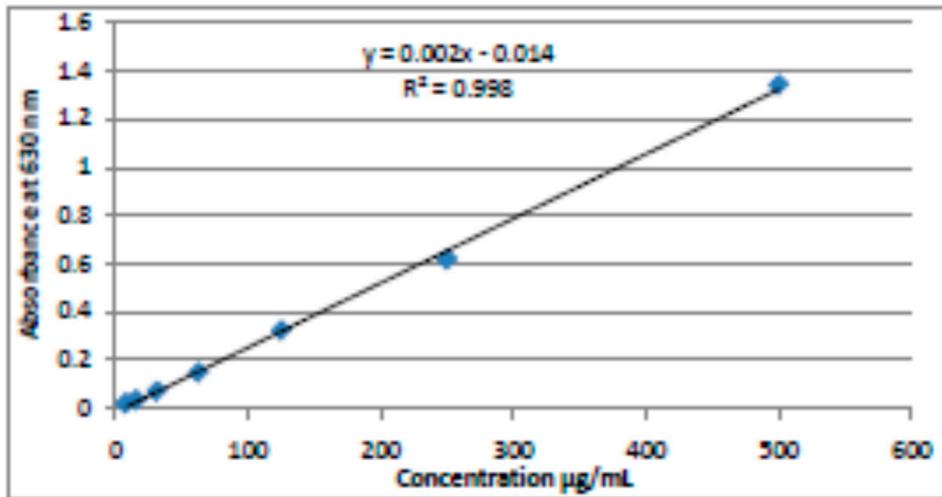


**Figure 19S:** Positive ion mode mass fragmentation of Isorhamnetin-3-O-glucoside

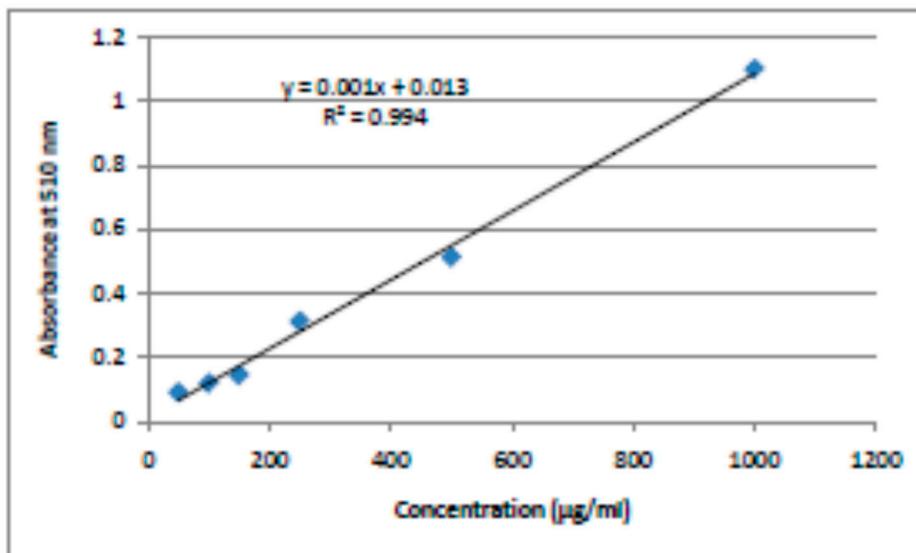


**Figure 20S:** Positive ion mode mass fragmentation of Kaempferol 3,7-di-O- $\alpha$ -L-rhamnoside

C. UV-CALIBRATION CURVES:



**Figure 21S:** Standard calibration curve of gallic acid used in the calculation of total phenolic contents of *Z. coccineum*



**Figure 22S:** Standard calibration curve of rutin used in the calculation of total flavonoid contents of *Z. coccineum*



