

Supplementary Materials

Figure S1. Proton NMR spectra of compound **31**. (CD_3OD and $(\text{CD}_3)_2\text{SO}$, 400 MHz).

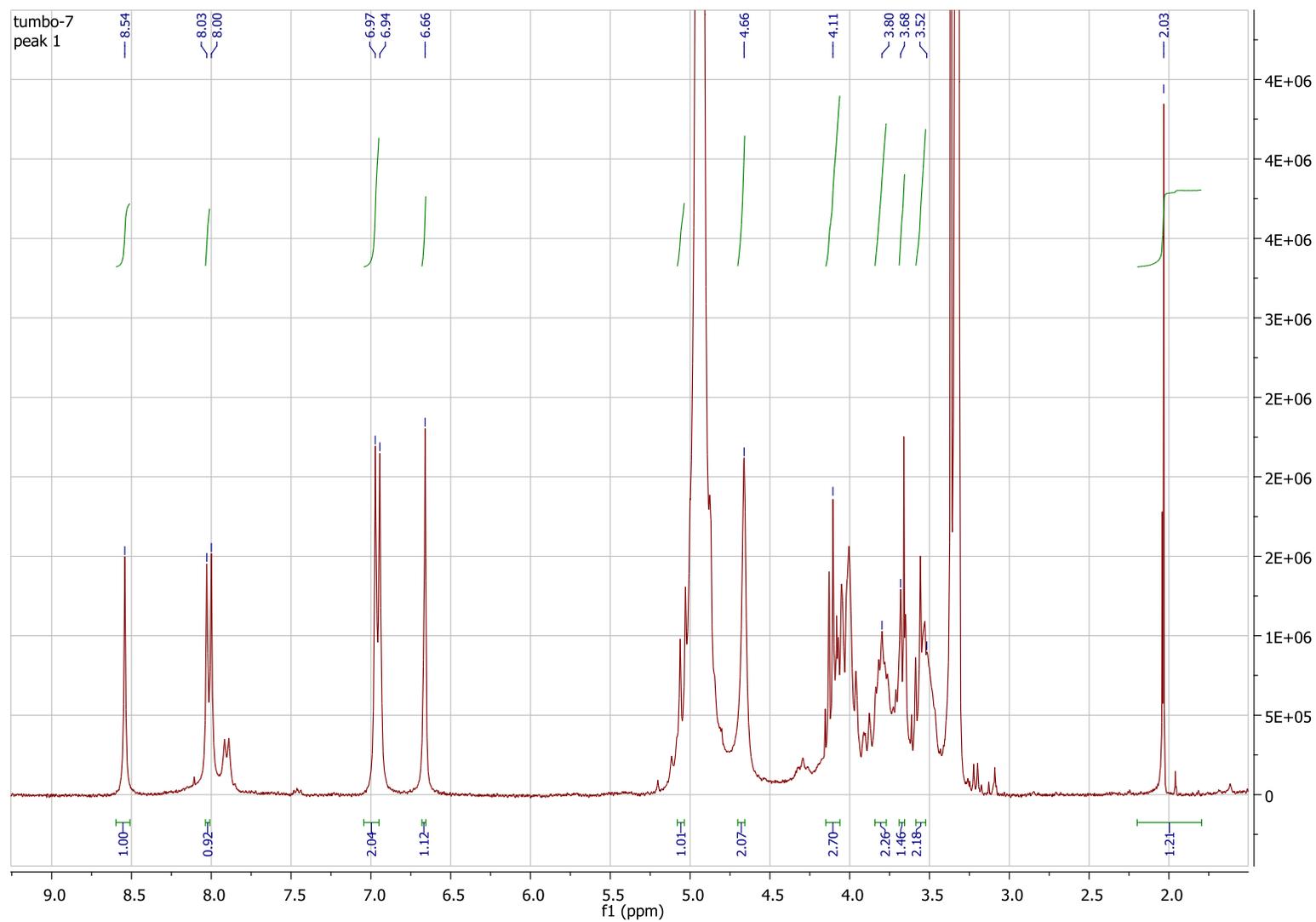


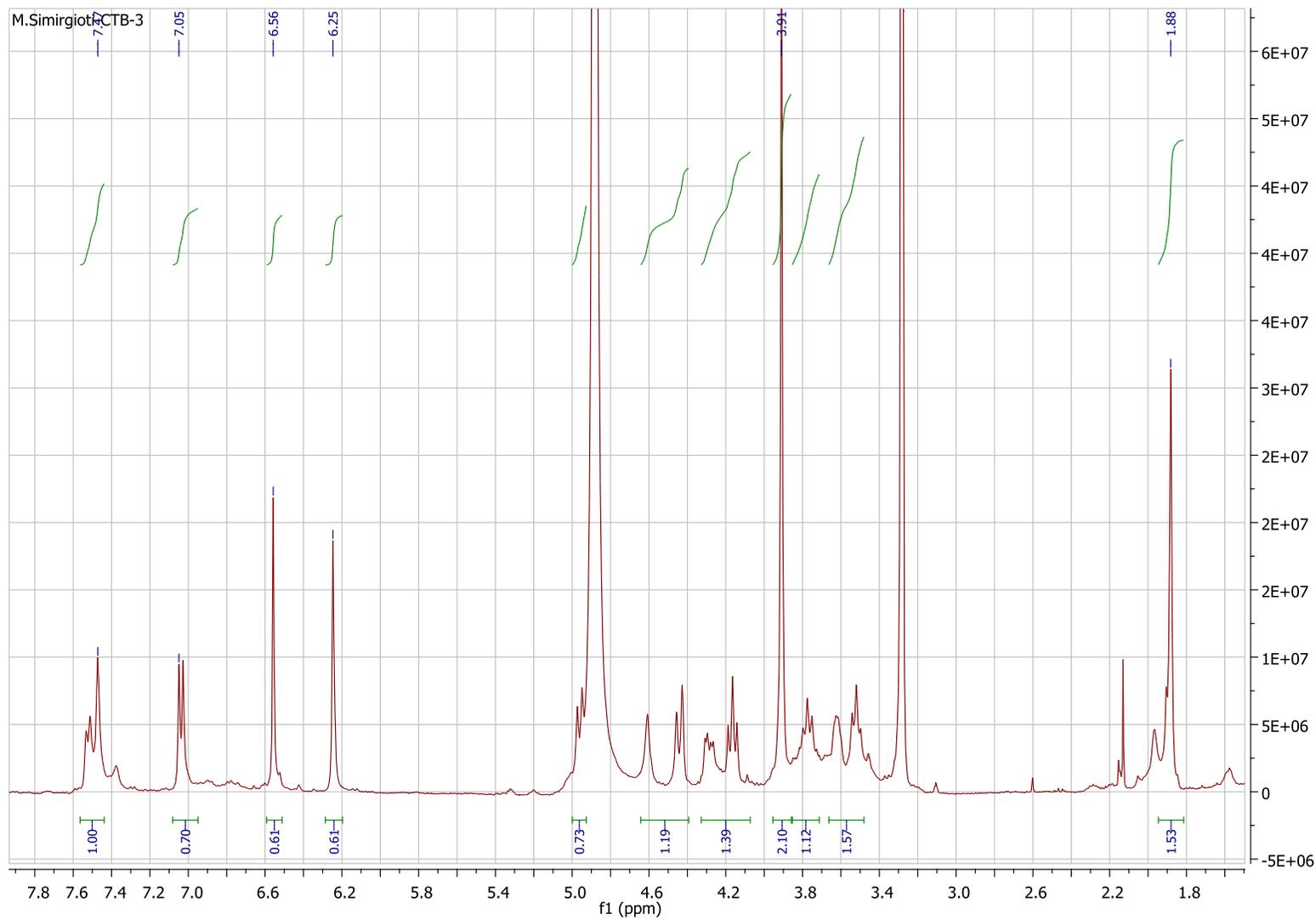
Figure S2. Proton NMR spectra of compound 31. (CD₃OD, 400 MHz).

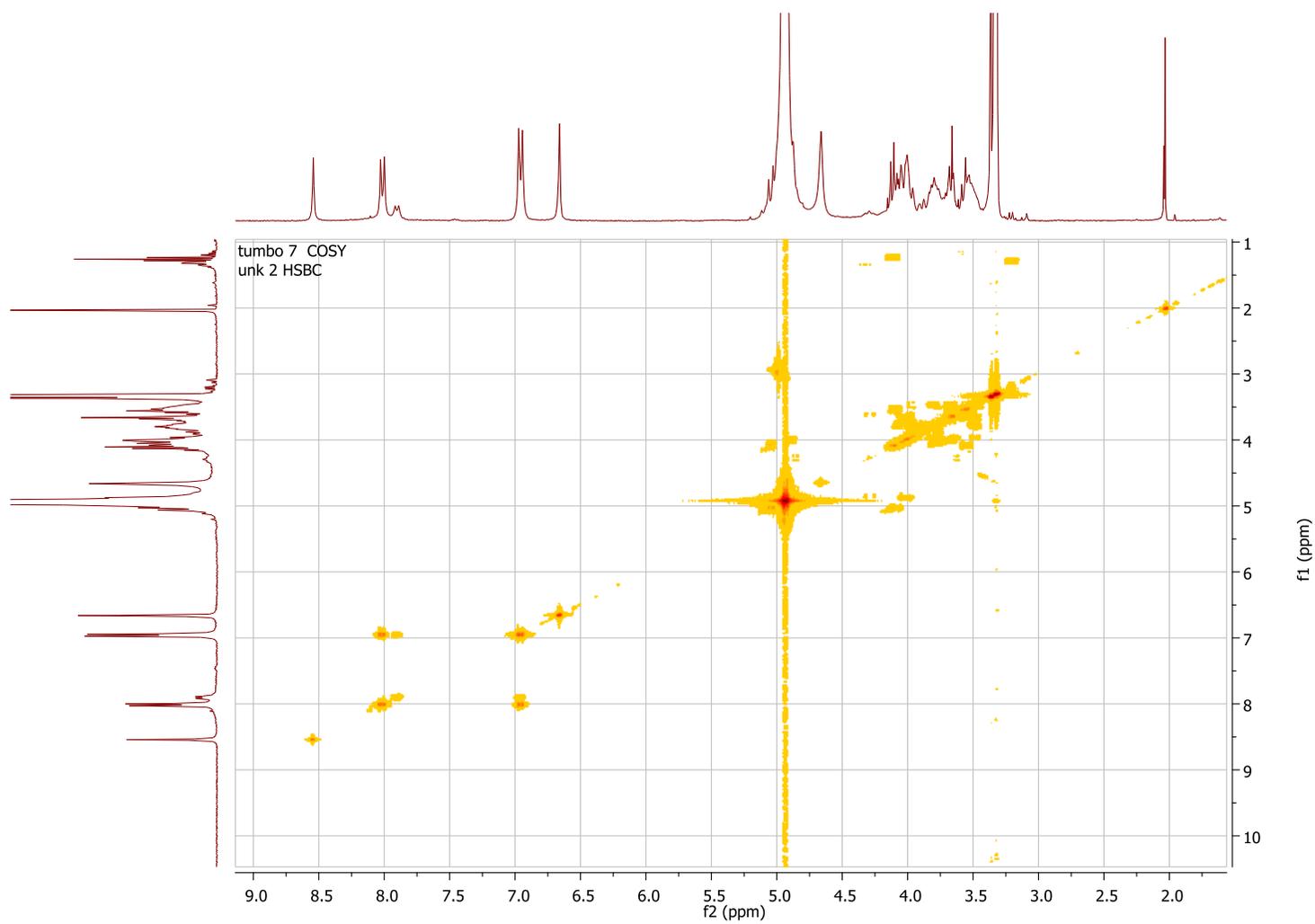
Figure S3. H-H COSY NMR spectra of compound **31**. (CD₃OD, 400 MHz).

Figure S4. Ampliation in the sugar region of ^1H - ^1H COSY NMR spectra of compound **31**. (CD_3OD , 400 MHz).

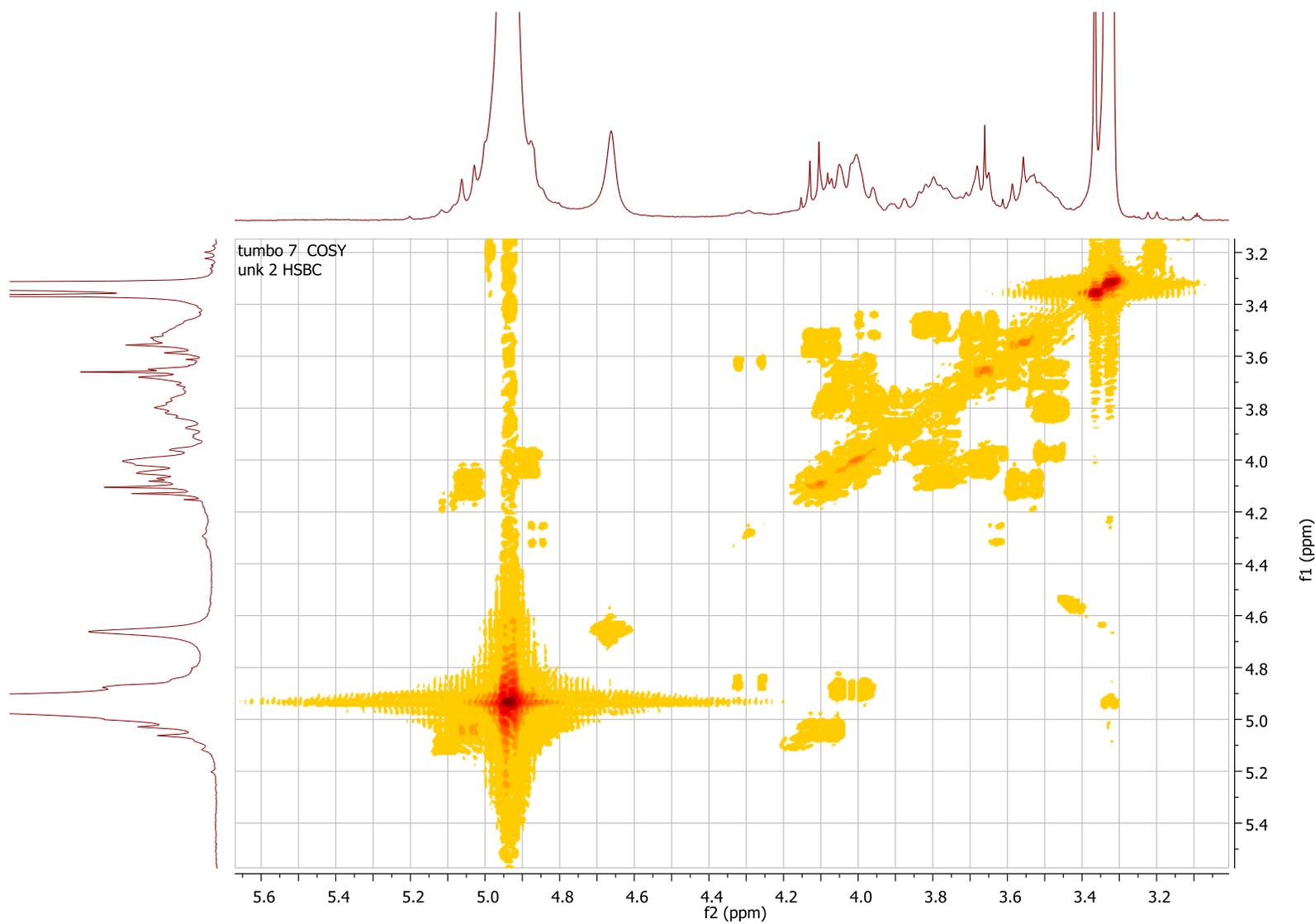


Figure S5. Full ESI MS spectra and MSⁿ fragmentation of Peaks **10** (Leucenin II, 4''-methyl-eter), **16** (vitexin), and **19** (orientin) from Tumbo peel extracts.

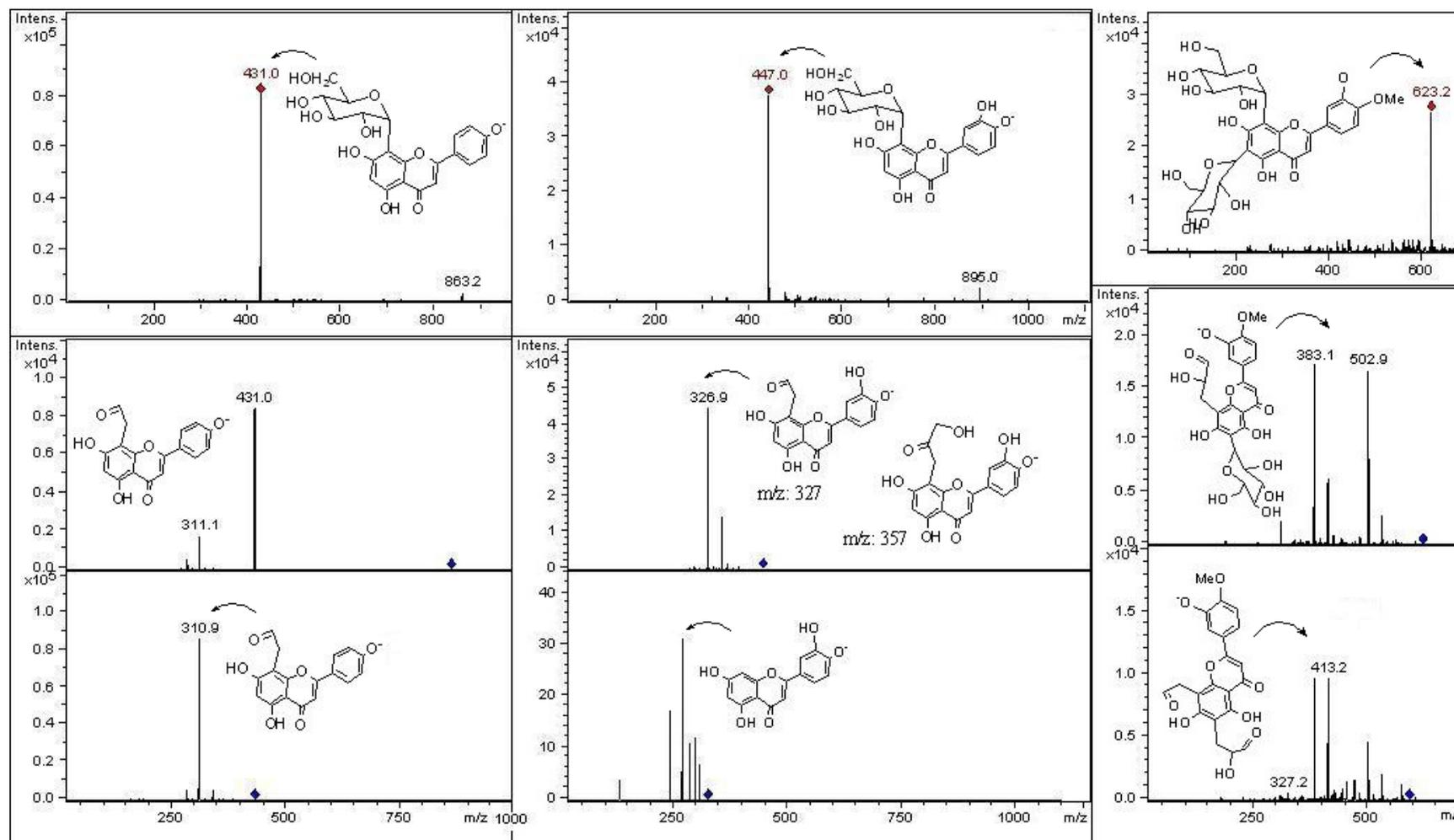


Figure S6. Photograph of ripe tumbo fruits collected in Pica, Chile in 2011.

