Supplementary Materials

Figure S1. High resolution MS (**A**) and MSMS (**B**) spectra of standard chlorophyllide a.

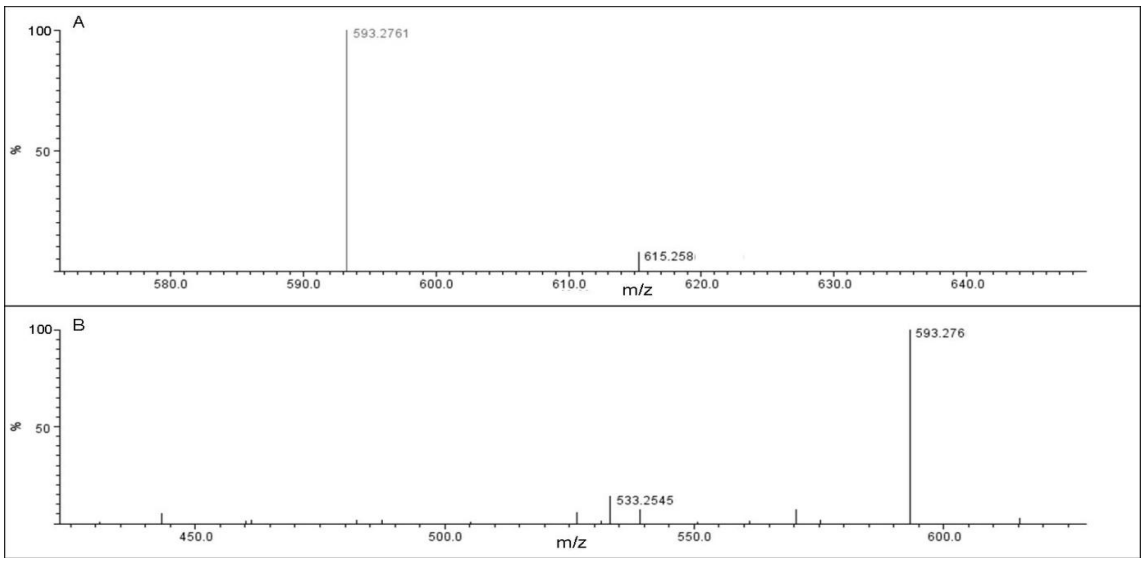


Figure S2. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of Fraction 1 (chlorophyllide a).

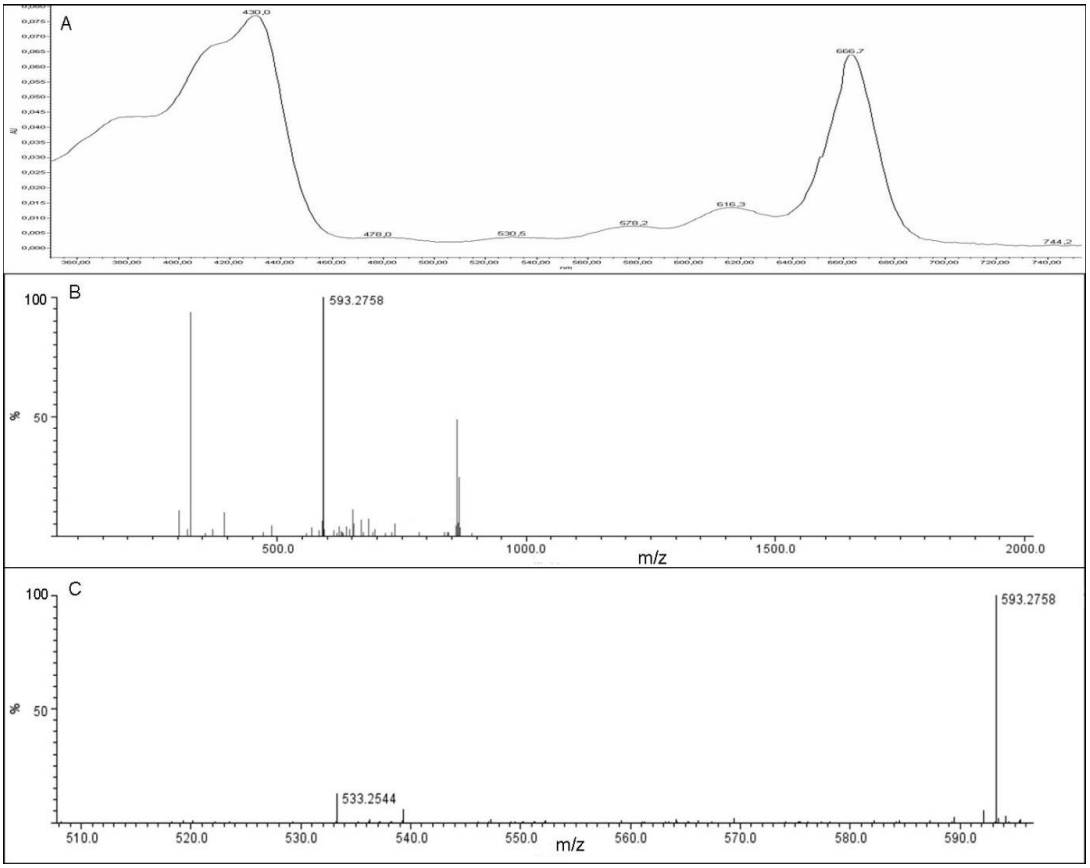


Figure S3. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of Fraction 2 (chlorophyllone).

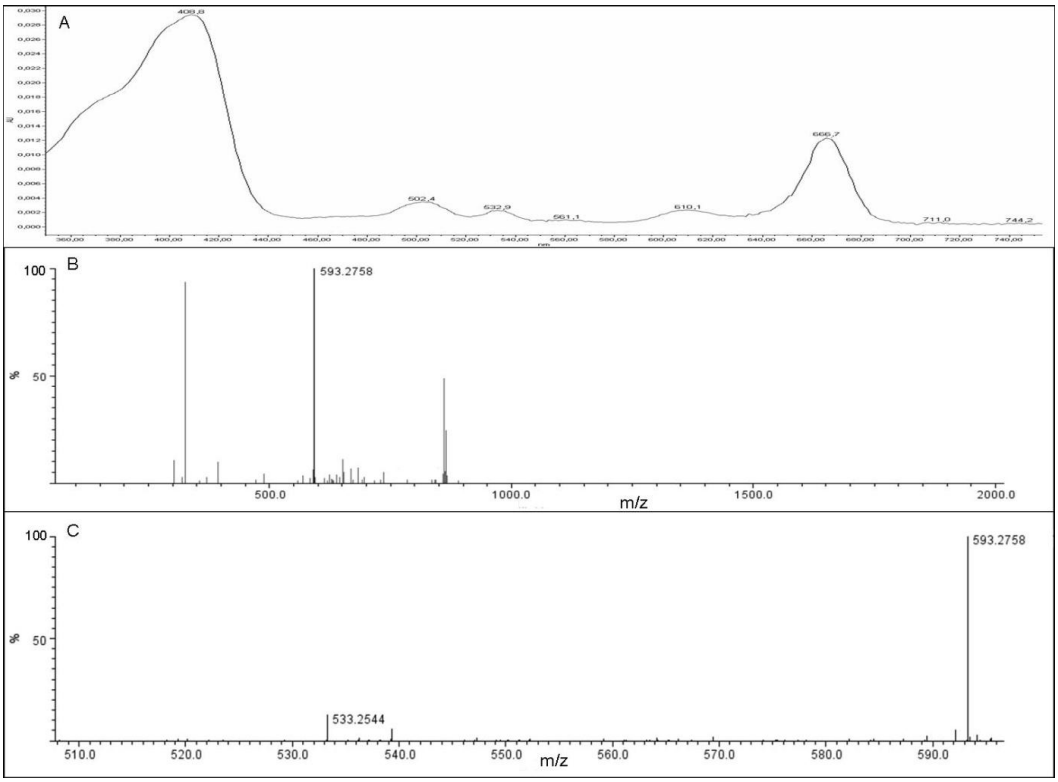


Figure S4. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of standard pheophorbide a.

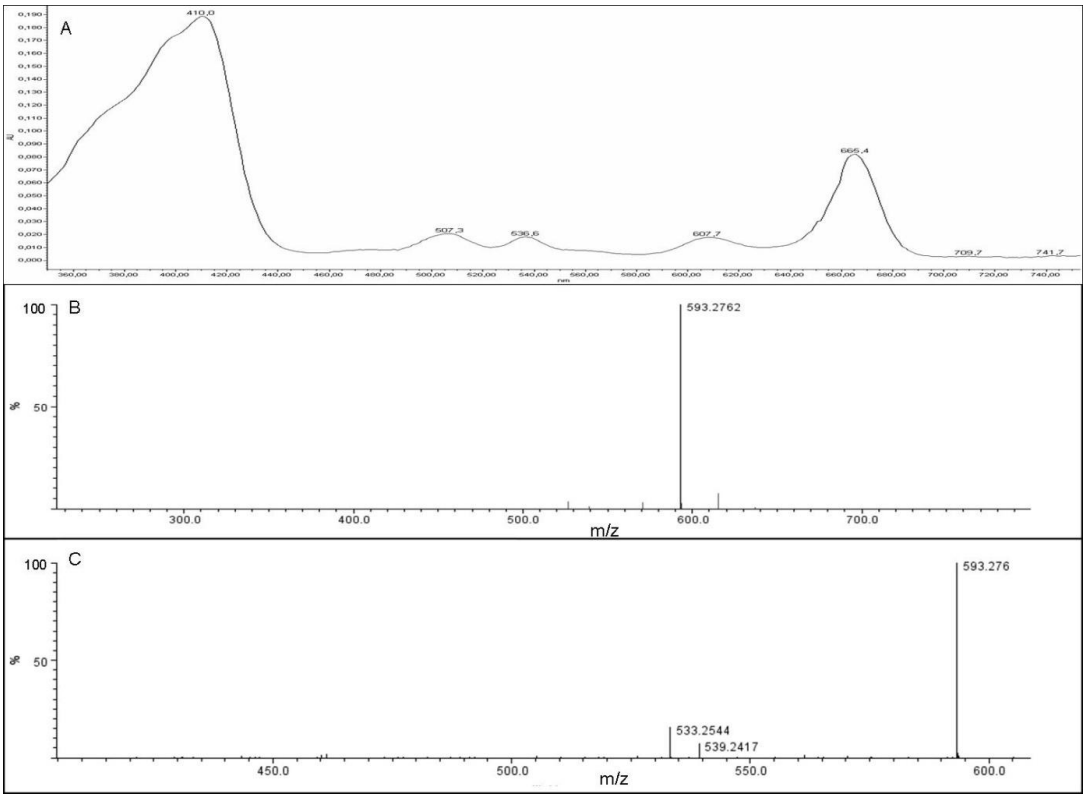


Figure S5. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of Fraction 3 (pheophorbide a).

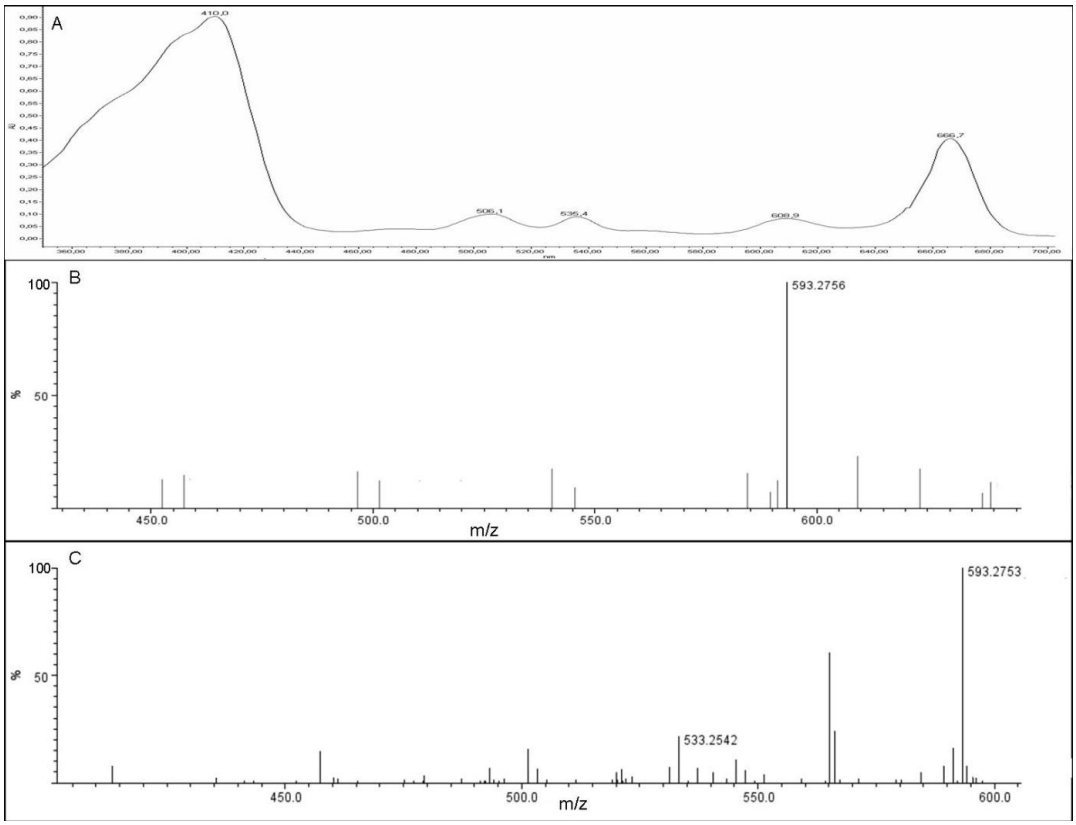


Figure S6. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of standard pyropheophorbide a.

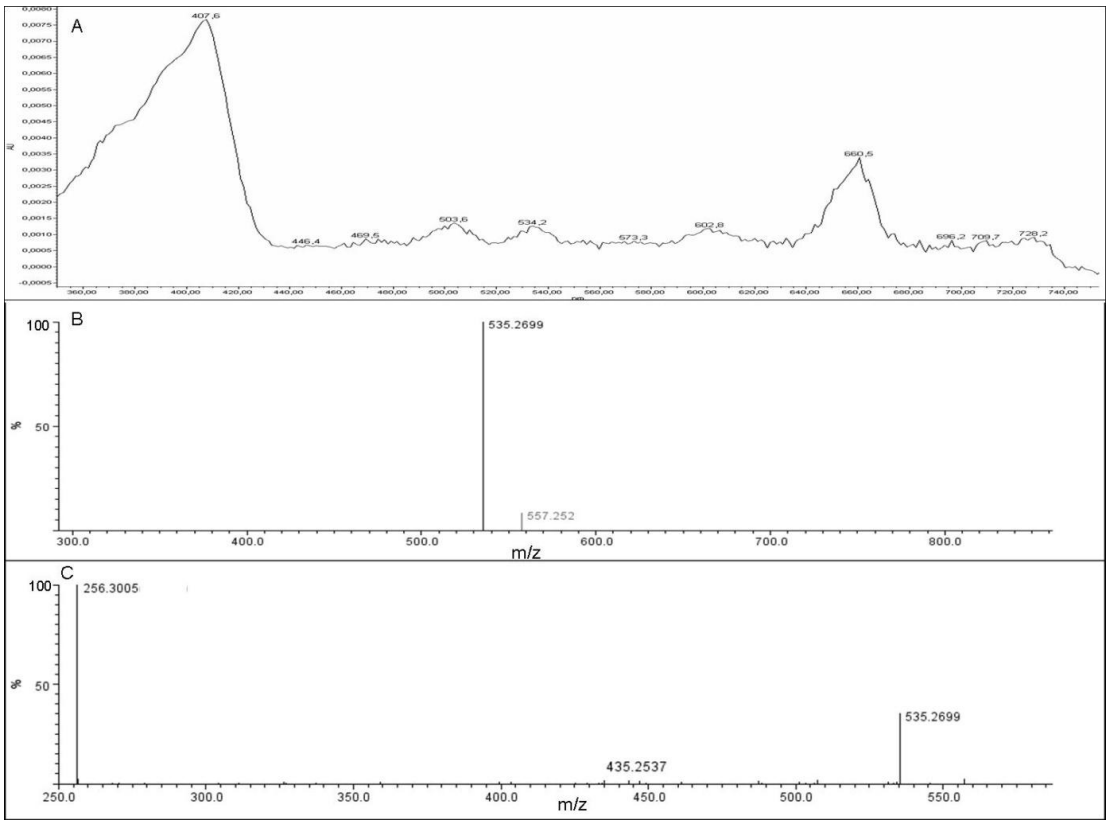


Figure S7. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of standard zeaxanthin.

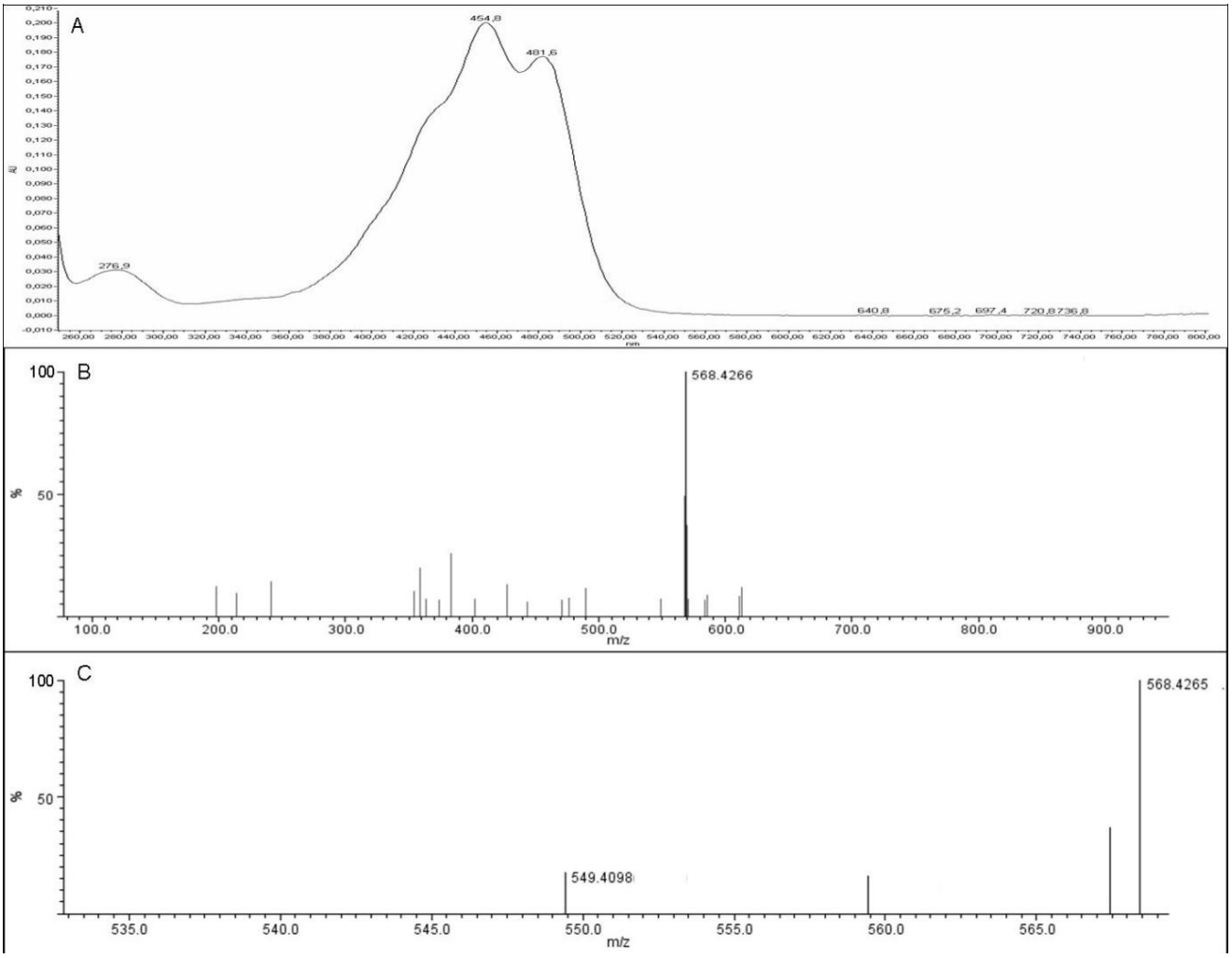


Figure S8. UV-vis (**A** and **D**), high resolution MS (**B** and **E**) and MSMS (**C** and **F**) spectra of Fraction 4. The **A**, **B** and **C** spectra correspond to pyropheophorbide a. The **D**, **E** and **F** spectra correspond to zeaxanthin.

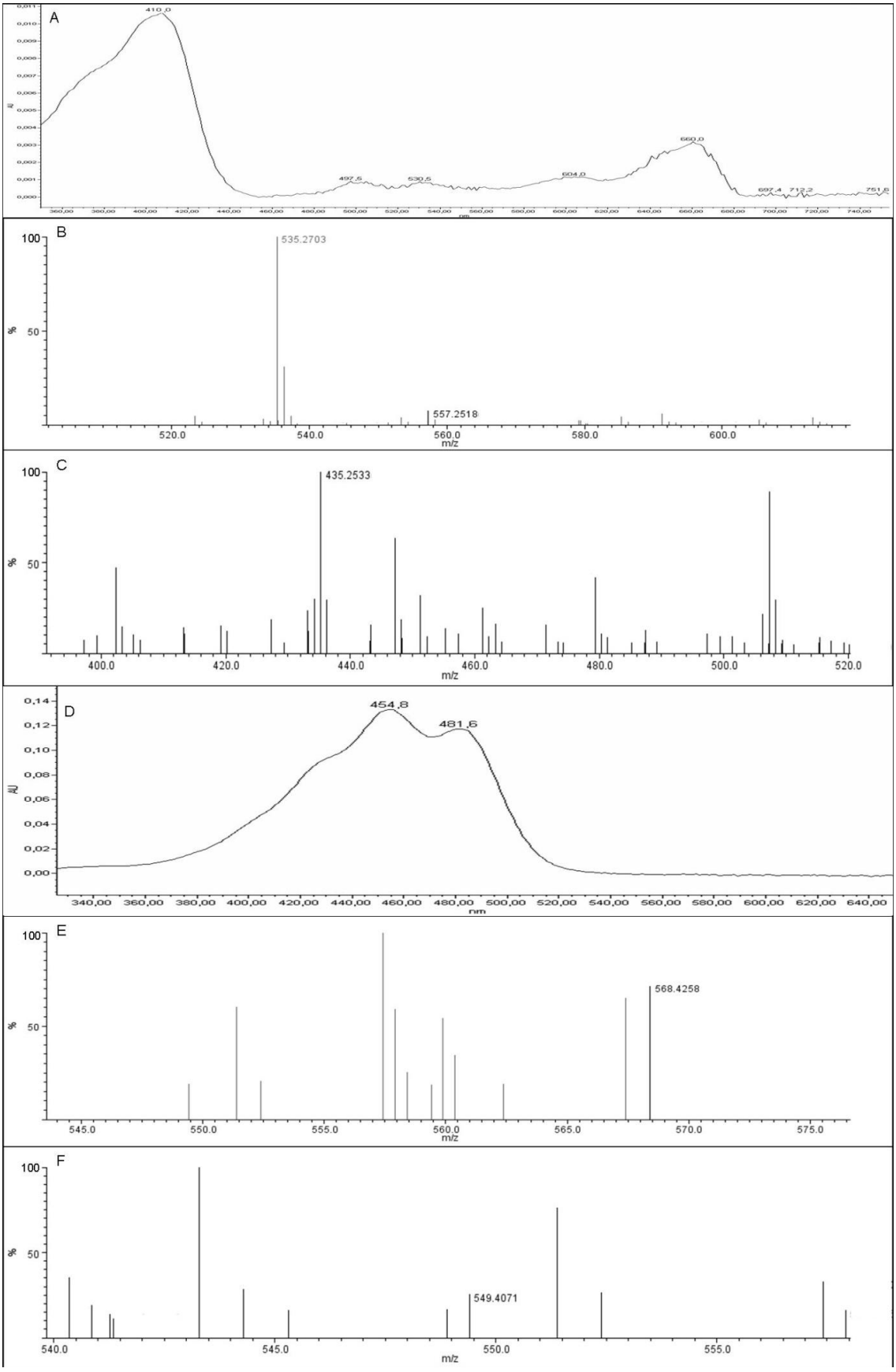


Figure S9. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of standard β-cryptoxanthin.

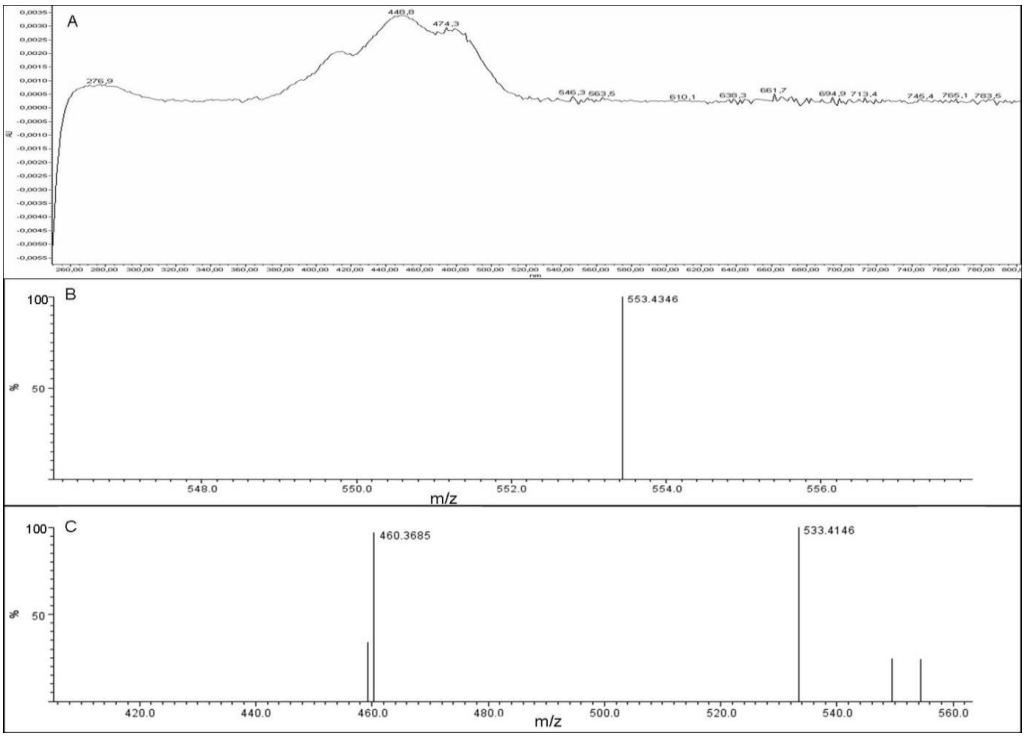


Figure S10. UV-vis (**A** and **B**), high resolution MS (**C**) and MSMS (**D**) spectra of Fraction 5. The **A** spectrum corresponds to 5,6-epoxy-β-cryptoxanthin. The **B**, **C** and **D** spectra correspond to β-cryptoxanthin.

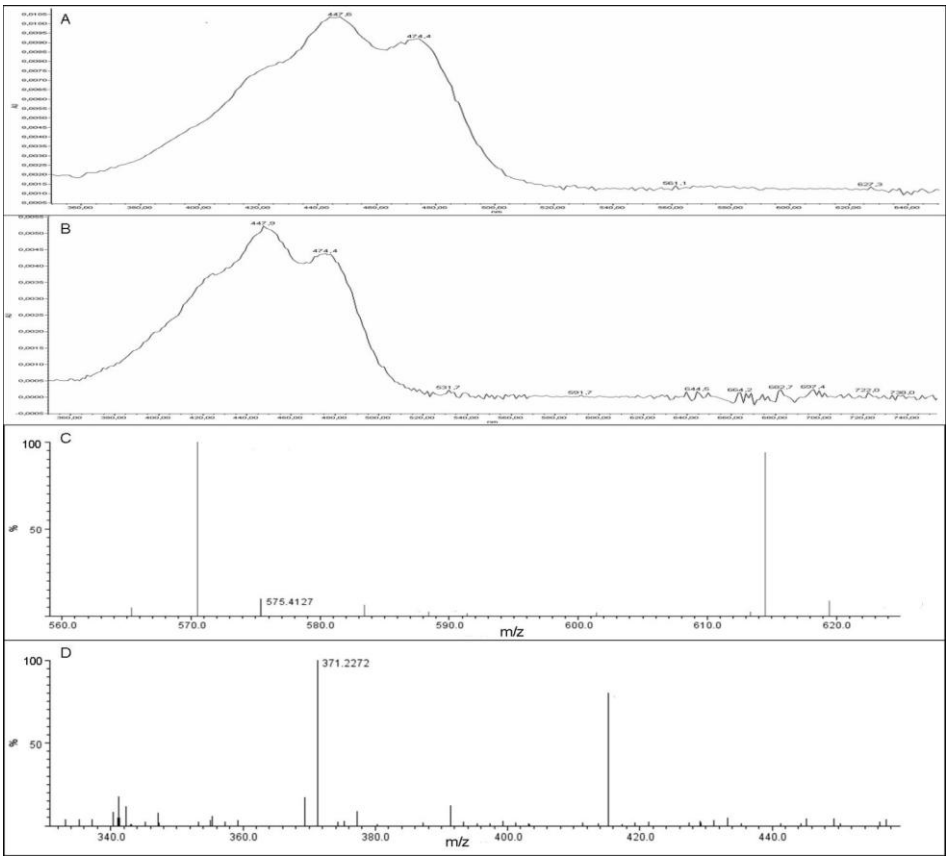


Figure S11. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of standard chlorophyll a.

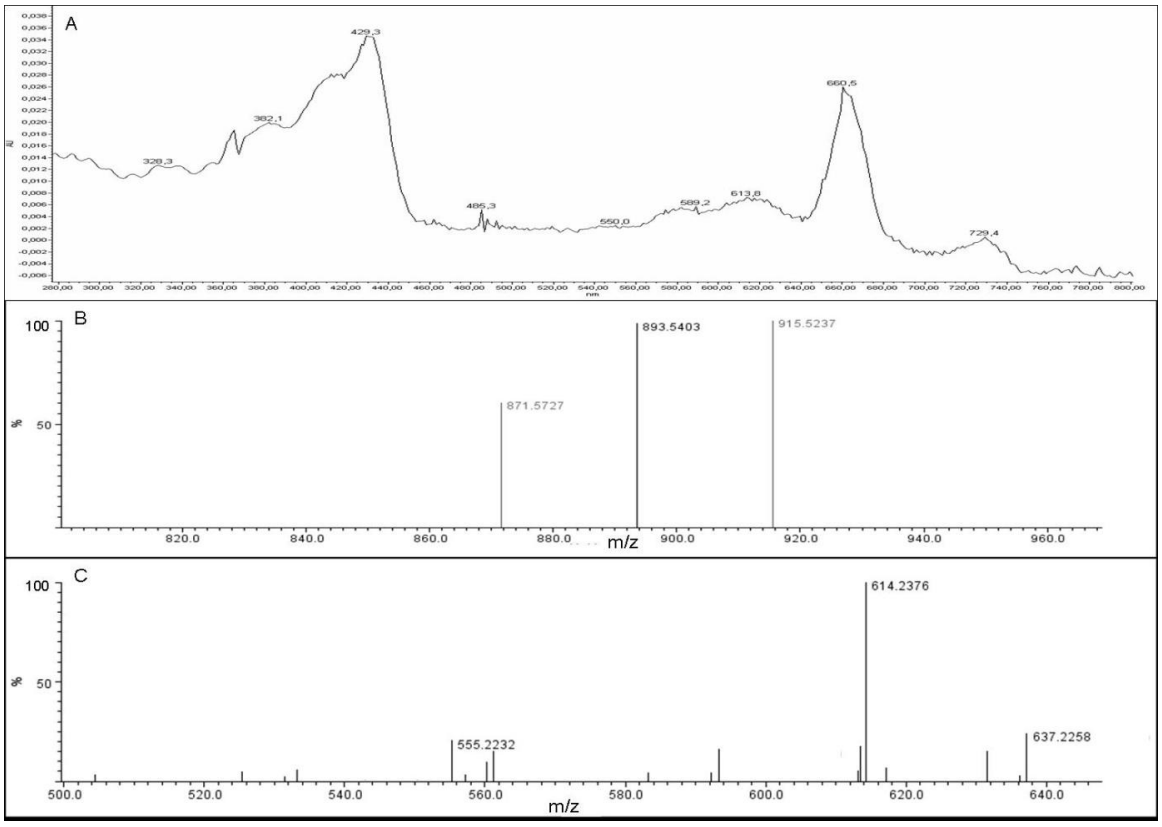


Figure S12. UV-vis (**A**, **D** and **G**), high resolution MS (**B** and **E**) and MSMS (**C** and **F**) spectra of Fraction 6. The **A**, **B** and **C** spectra correspond to chlorophyll a. The **D**, **E** and **F** spectra correspond to pheophytin a. The **G** spectrum corresponds to the unidentified carotenoid.

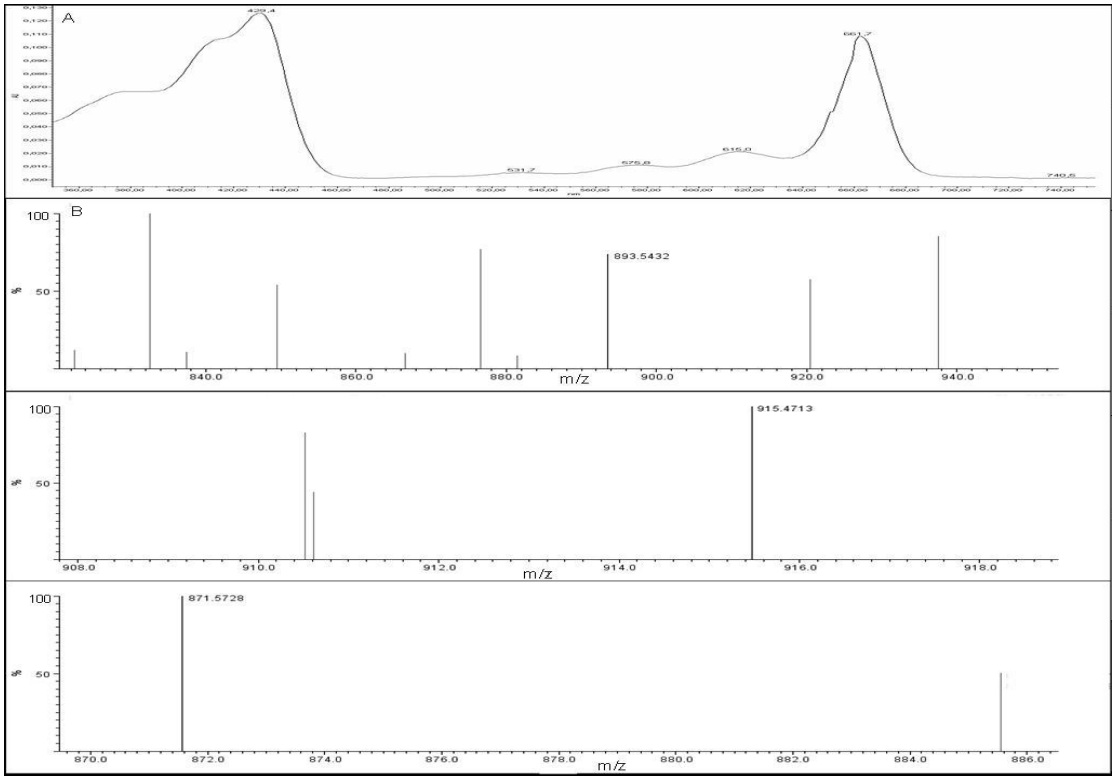


Figure S12. *Cont.*

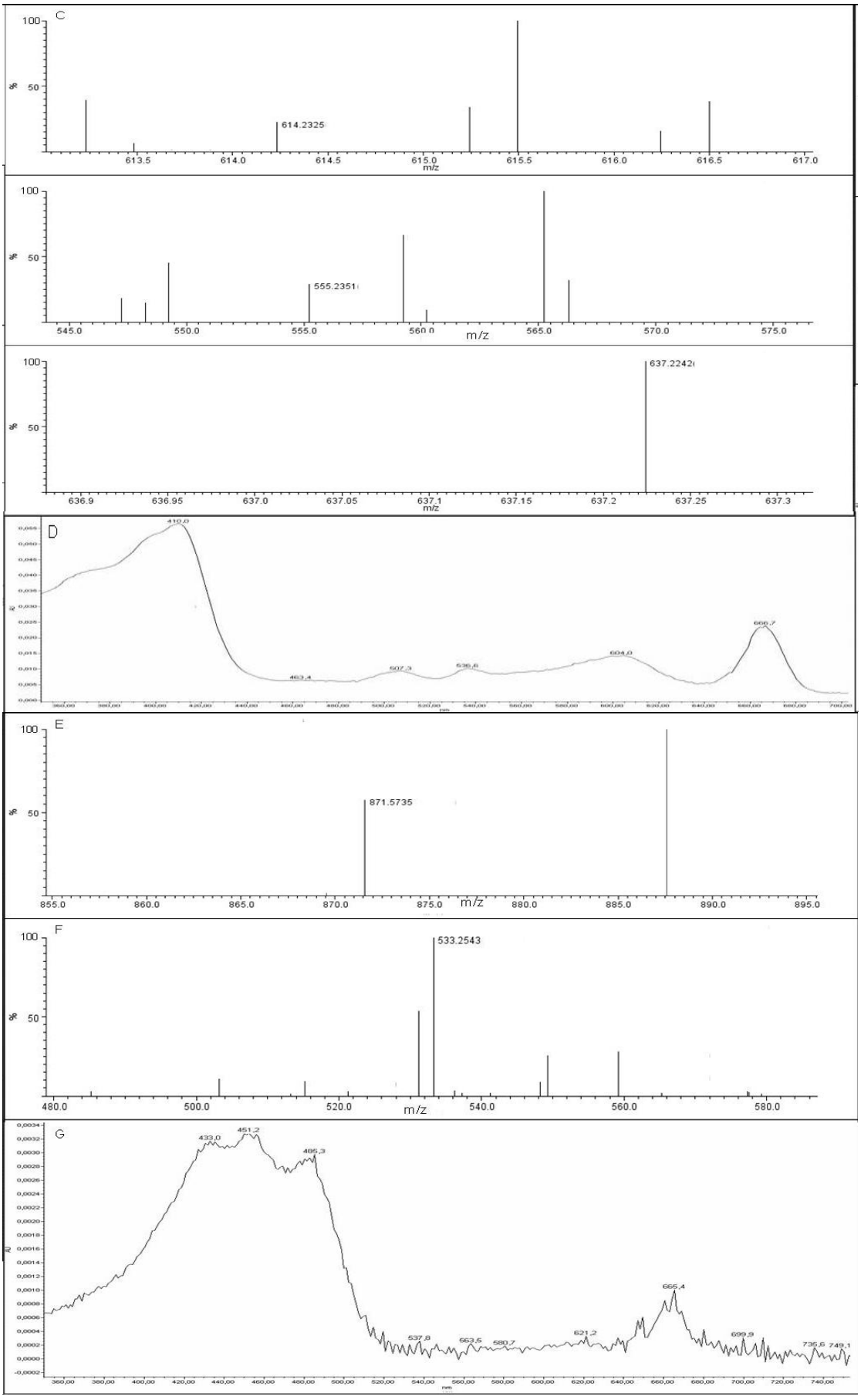


Figure S13. UV-vis (**A**, **D**, **G**, **H**, **I** and **J**), high resolution MS (**B** and **E**) and MSMS (**C** and **F**) spectra of Fraction 7. The **A**, **B** and **C** spectra correspond to chlrorophyll a epimer. The **D**, **E** and **F** spectra correspond to pheophytin a. The **G** spectrum corresponds to DV-pheophytin a. The **H** spectrum corresponds to MV-pheophytin a. The **I** spectrum corresponds to mutatochrome. The J spectrum corresponds to purpurin-7-phytyl ester.

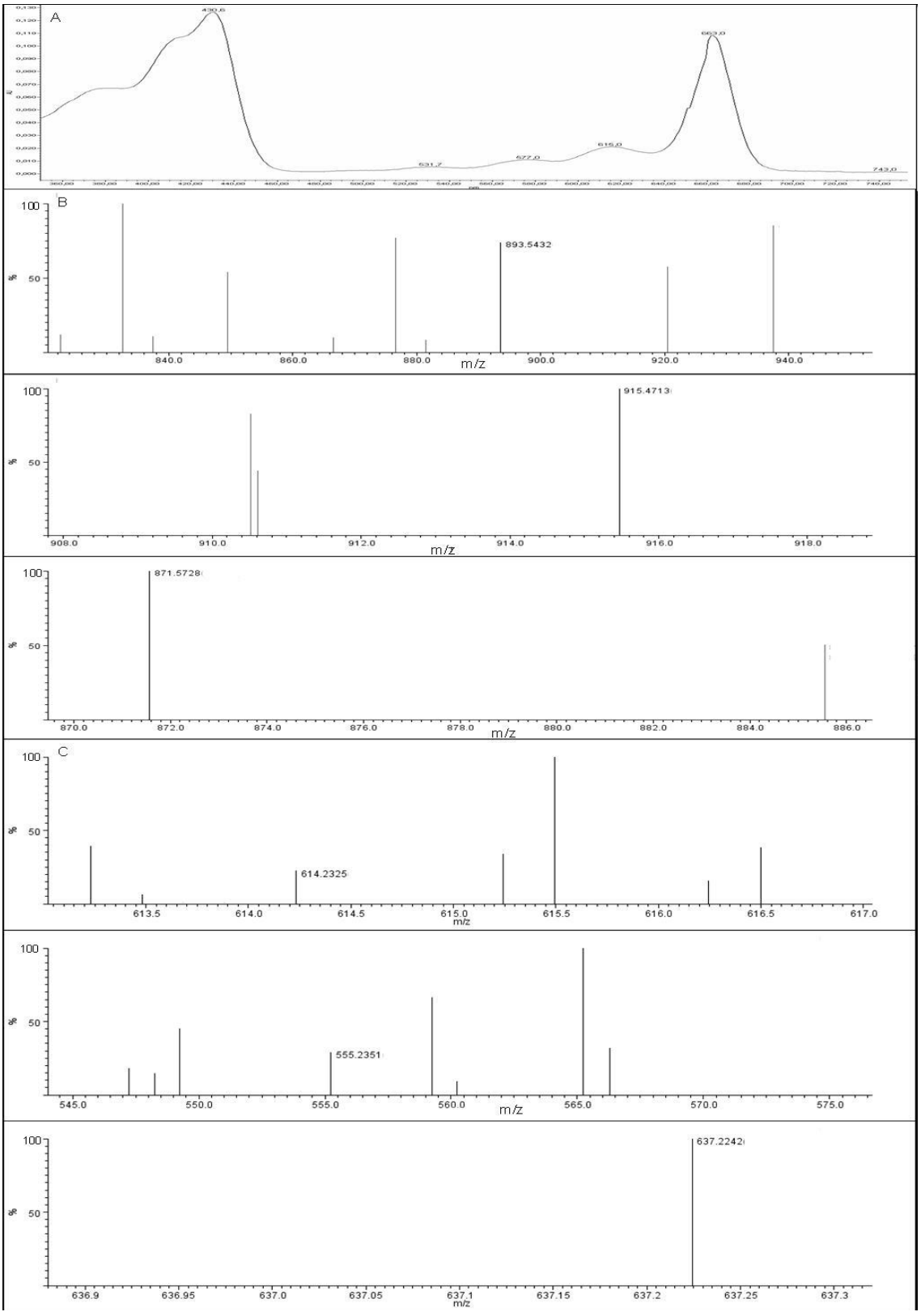


Figure S13. *Cont.*

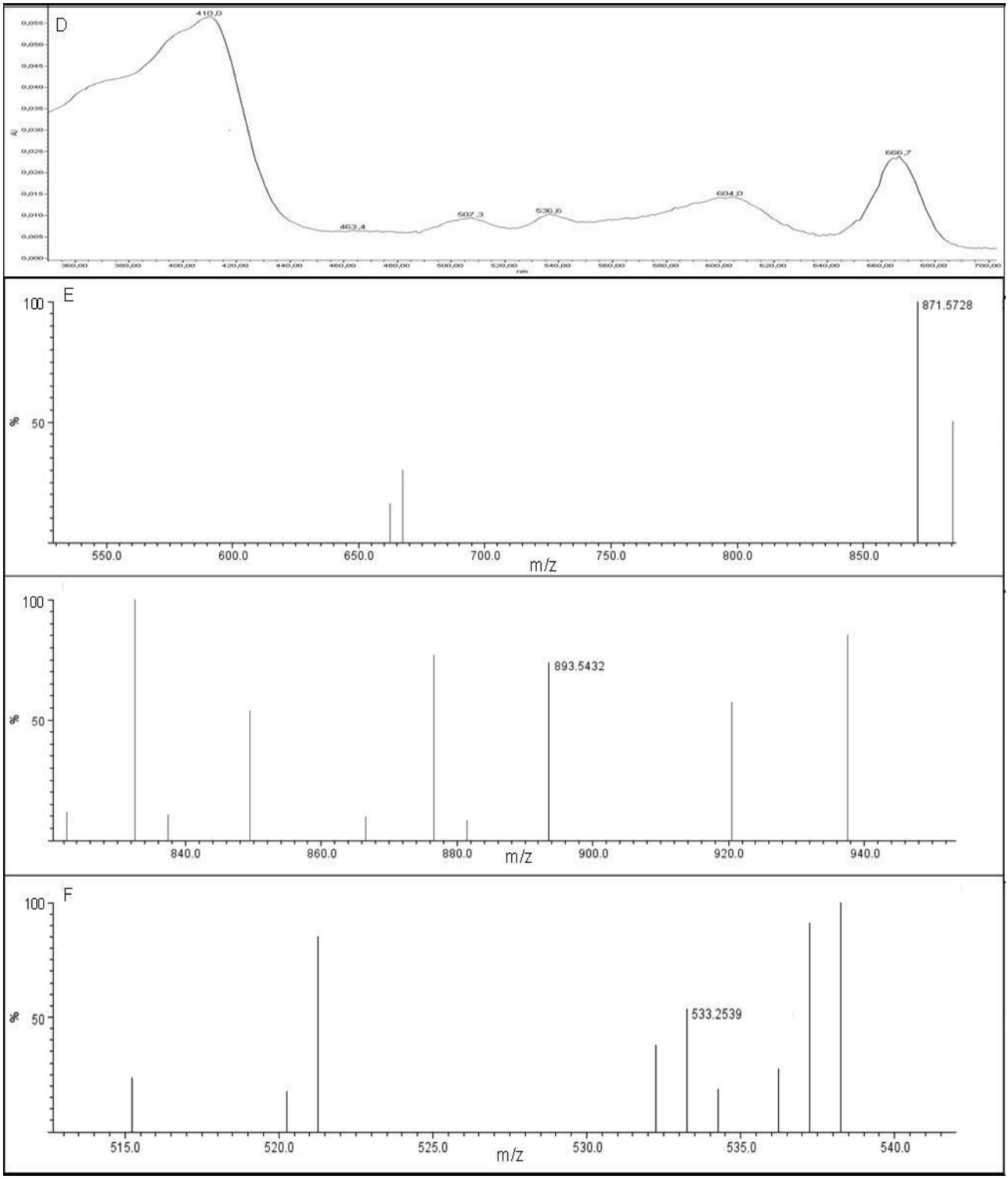


Figure S13. *Cont.*

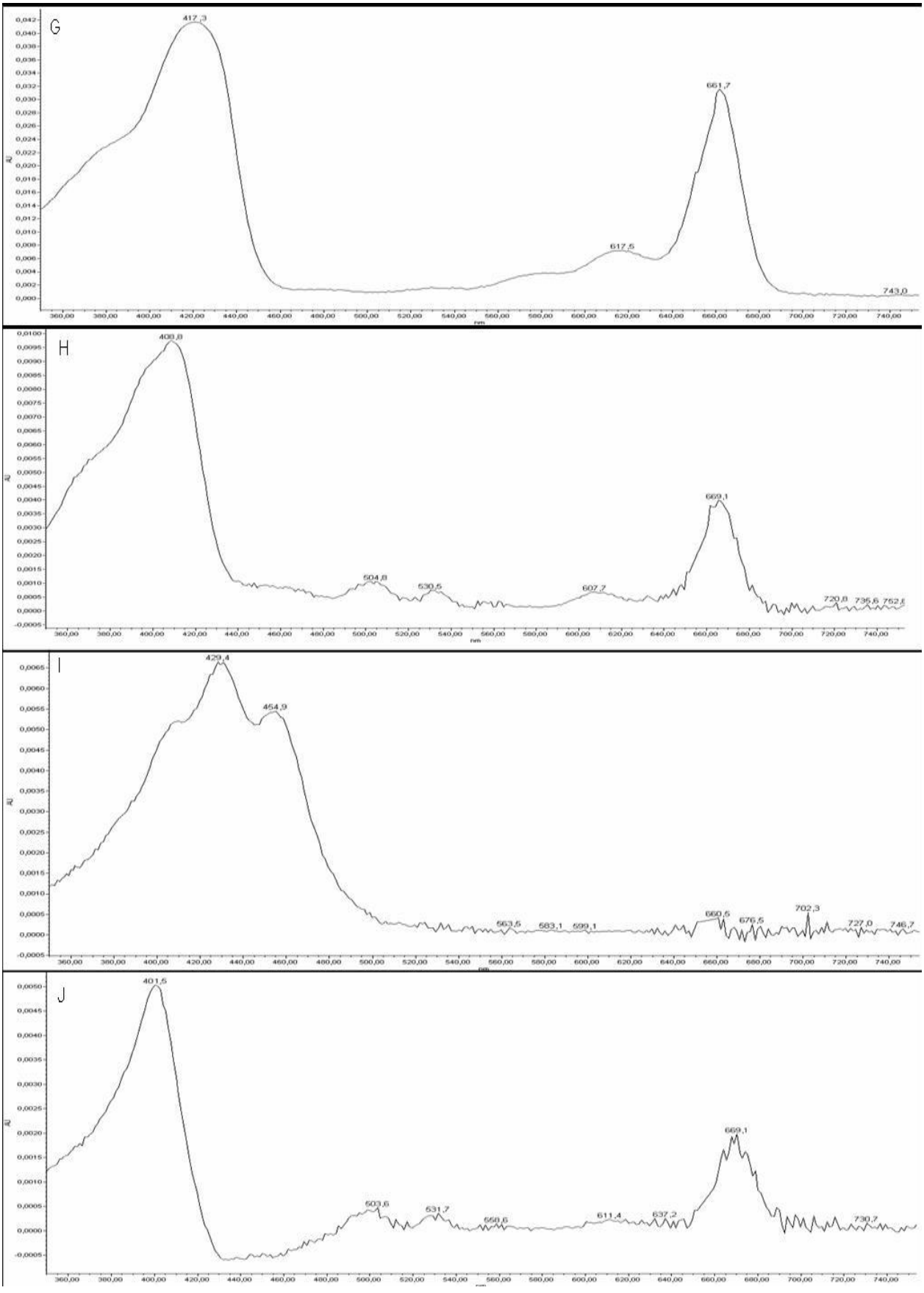


Figure S14. UV-vis (**A**), high resolution MS (**B**) and MSMS (**C**) spectra of standard β-Carotene.

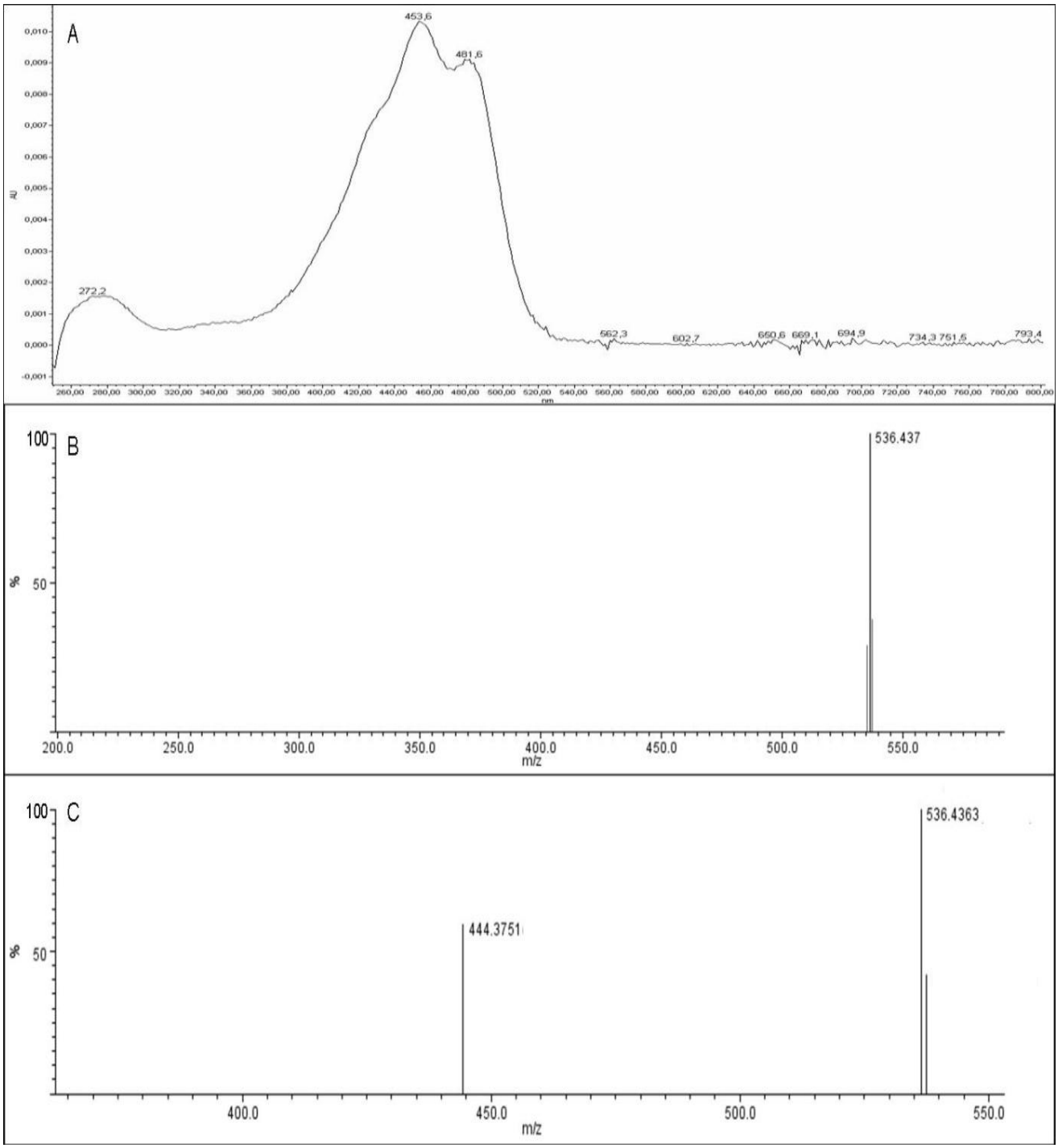
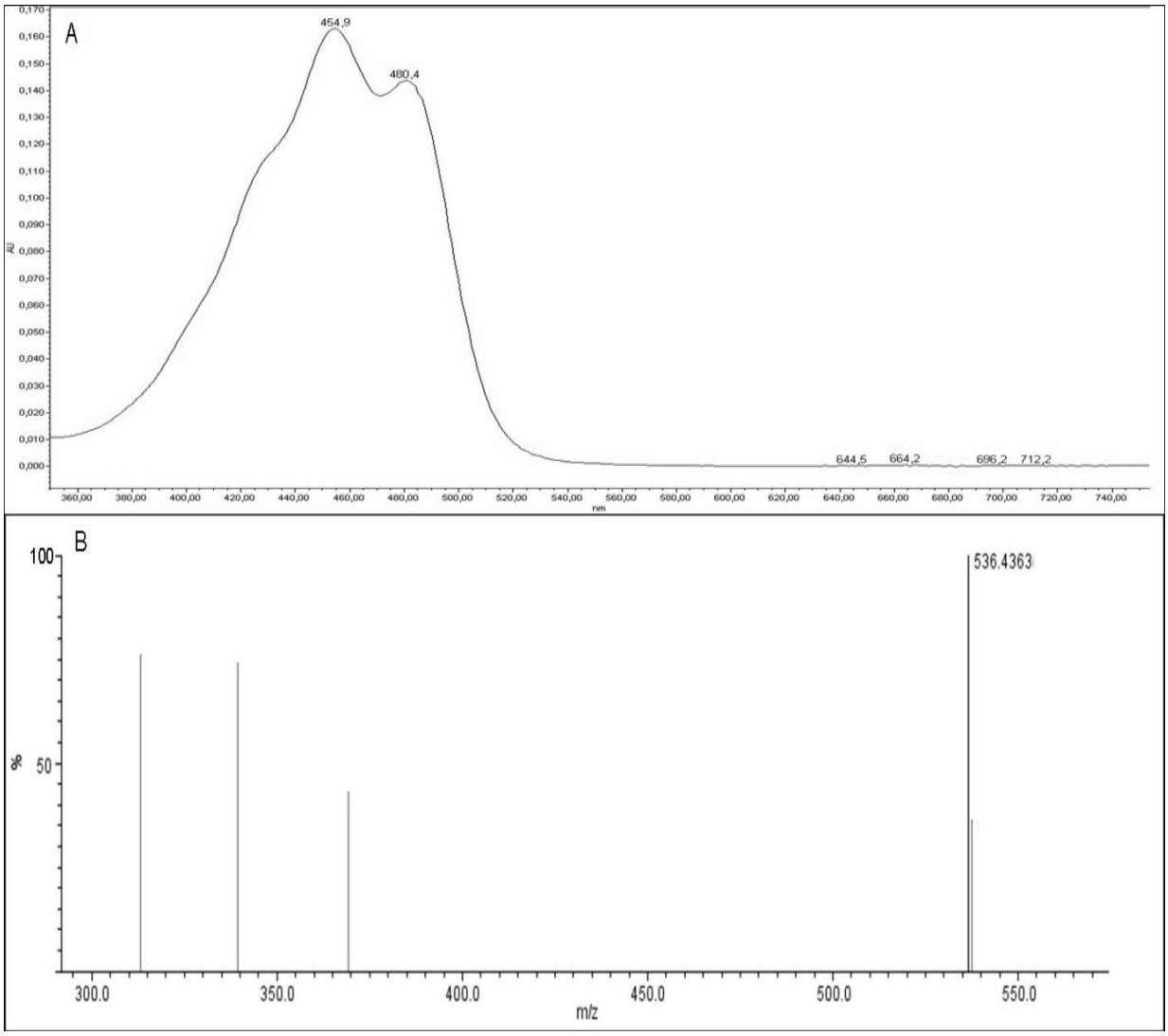


Figure S15. UV-vis (**A**) and high resolution MS (**B**) spectra of Fraction 8 (β-carotene).



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