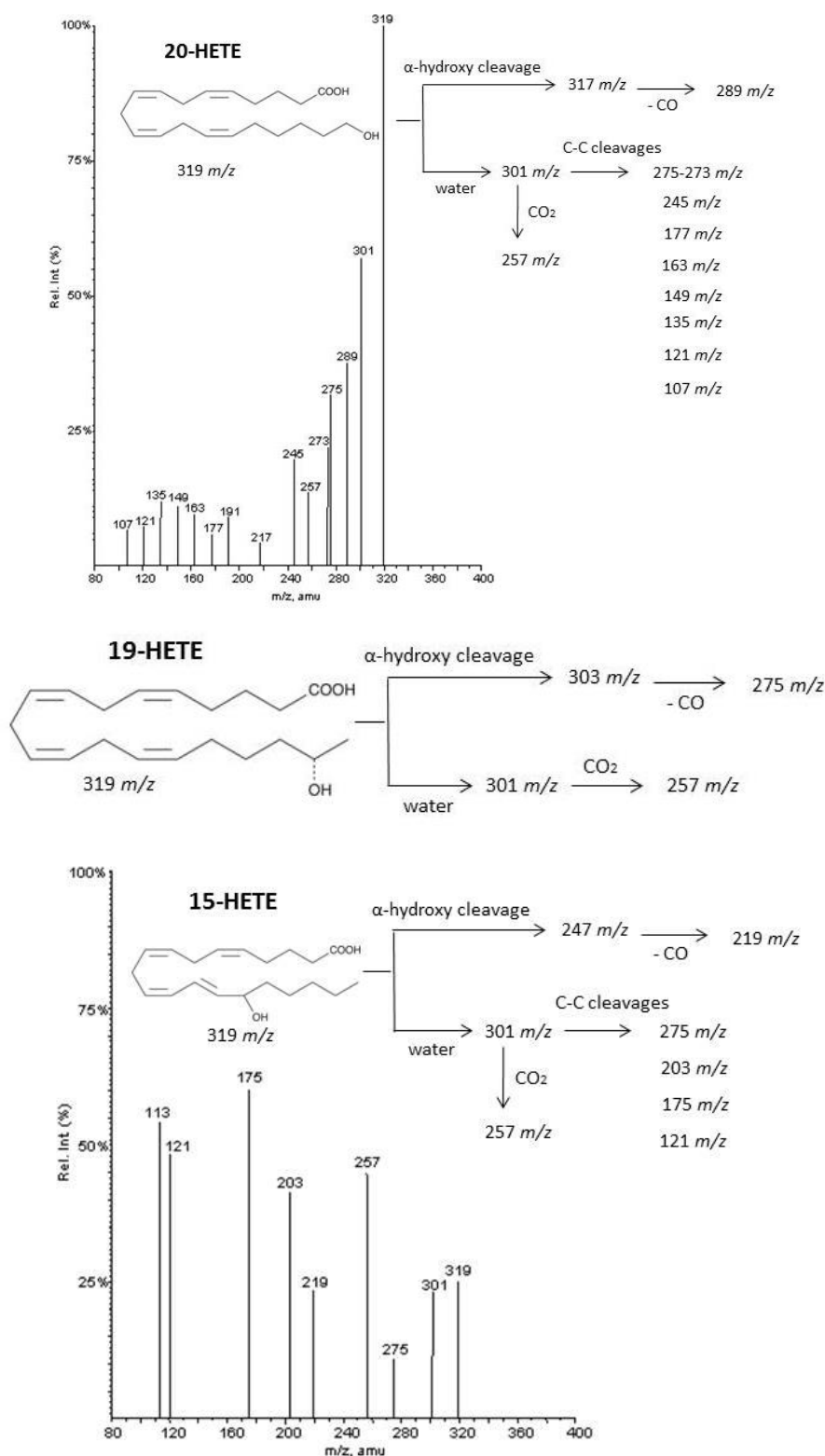
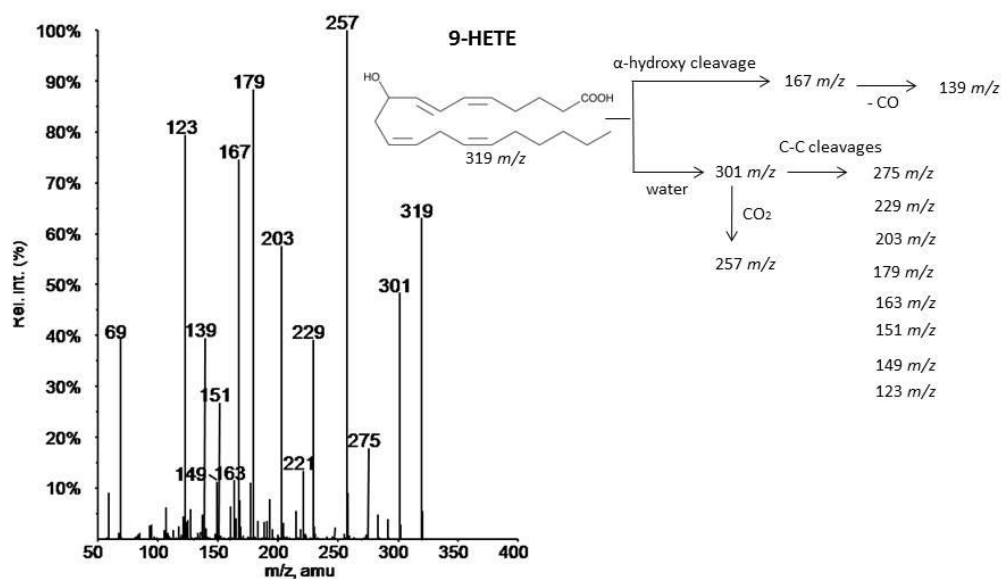
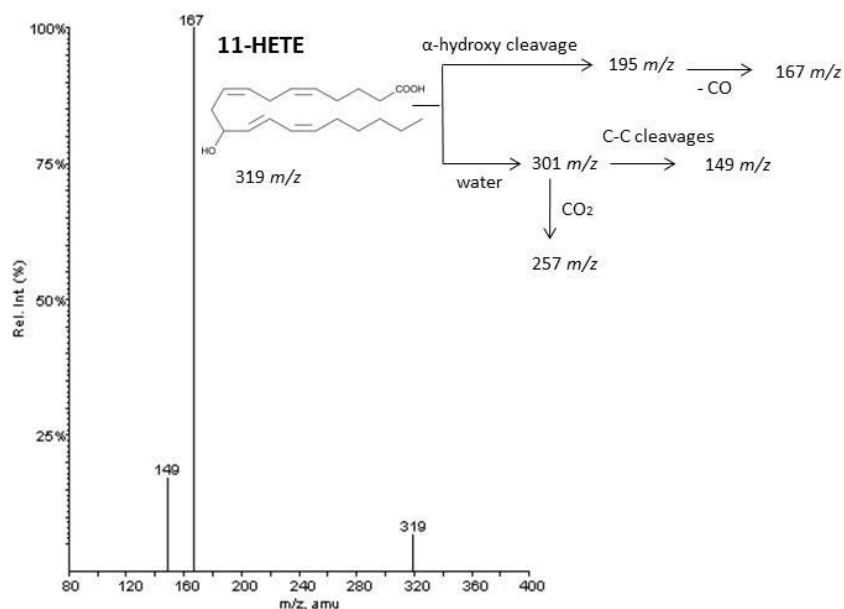
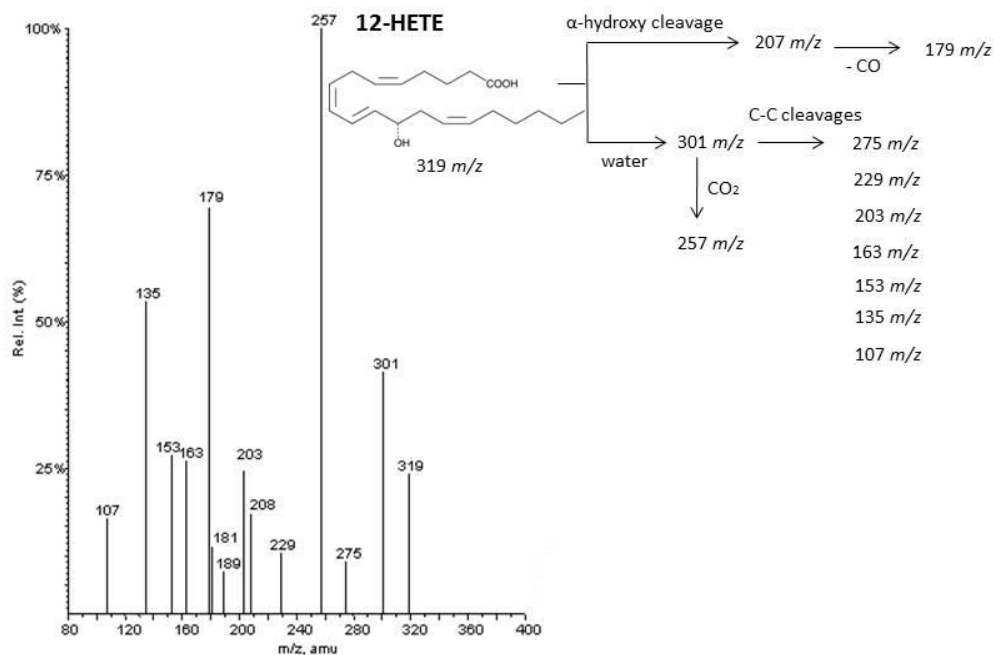
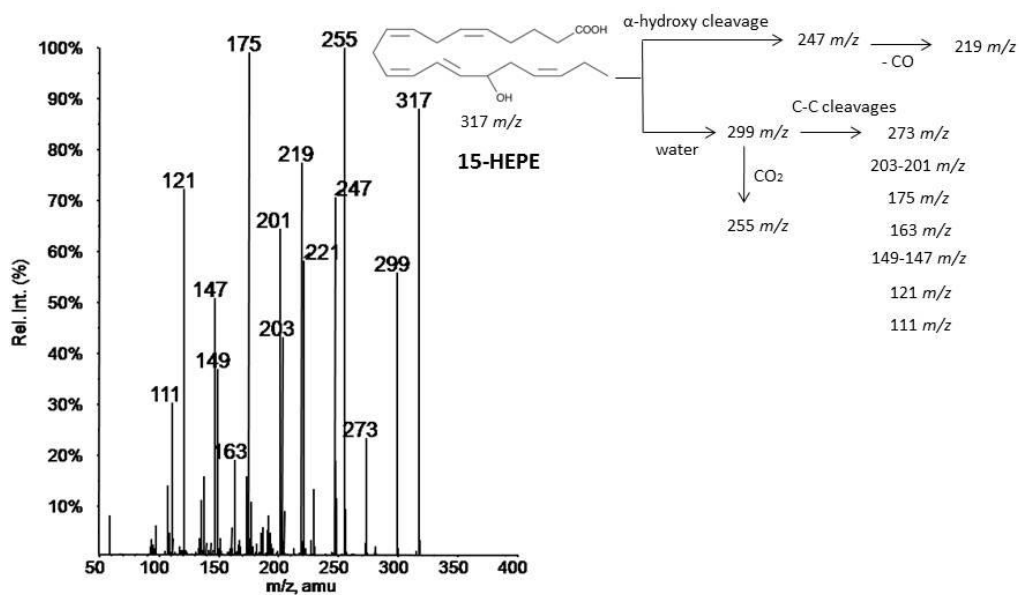
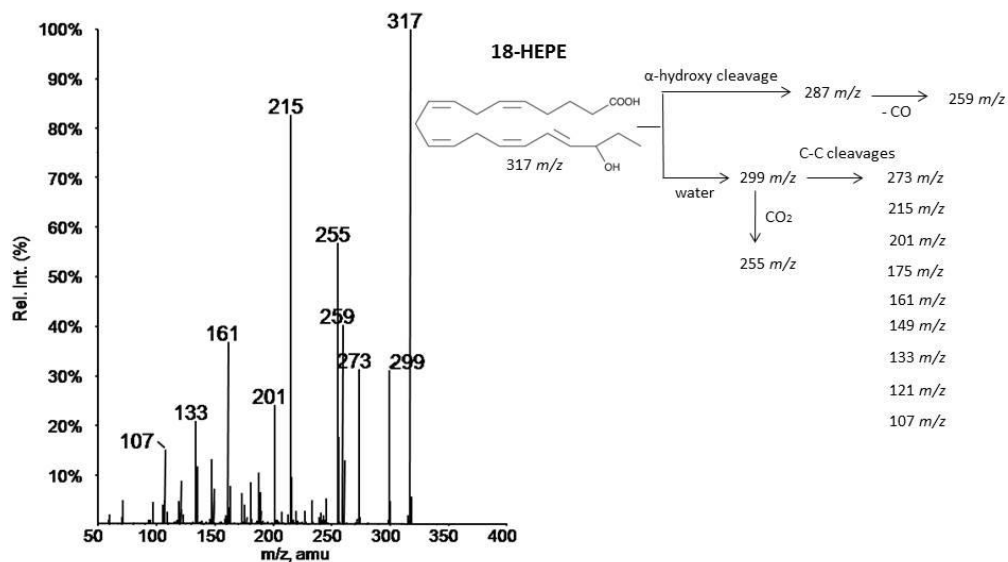
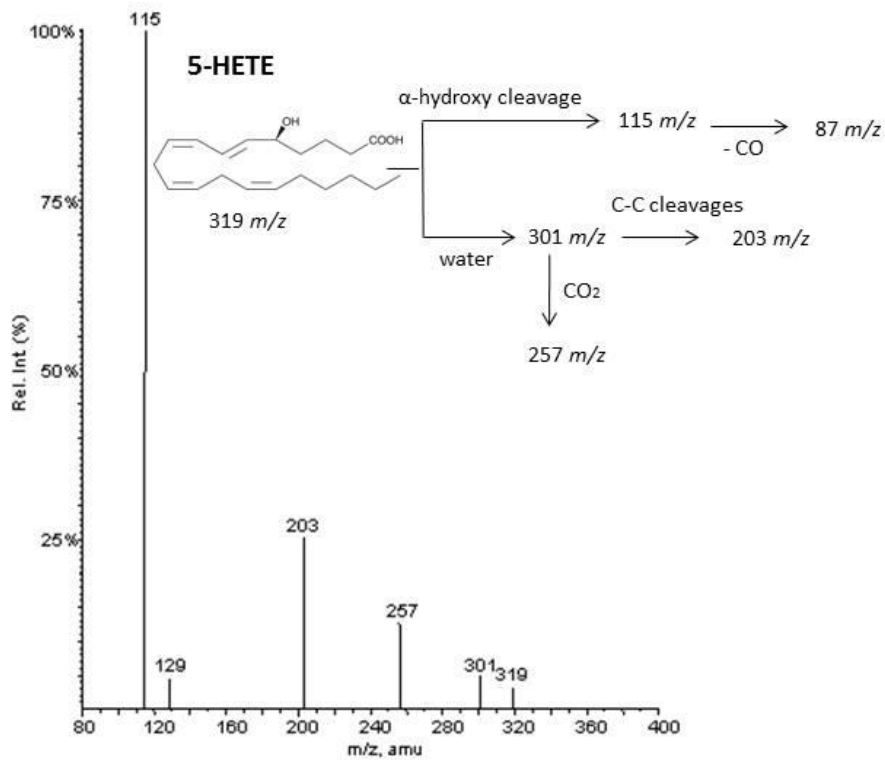
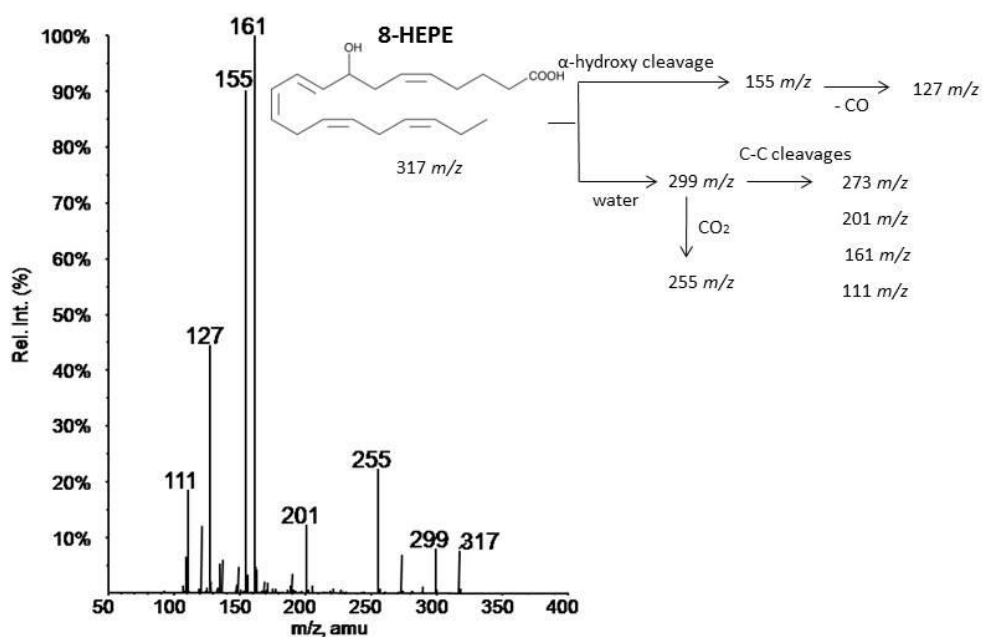
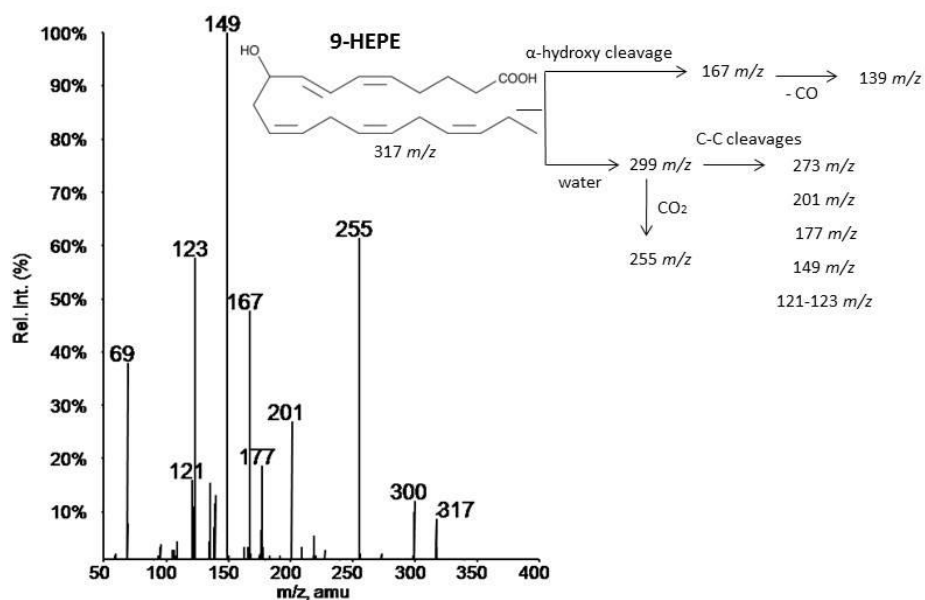
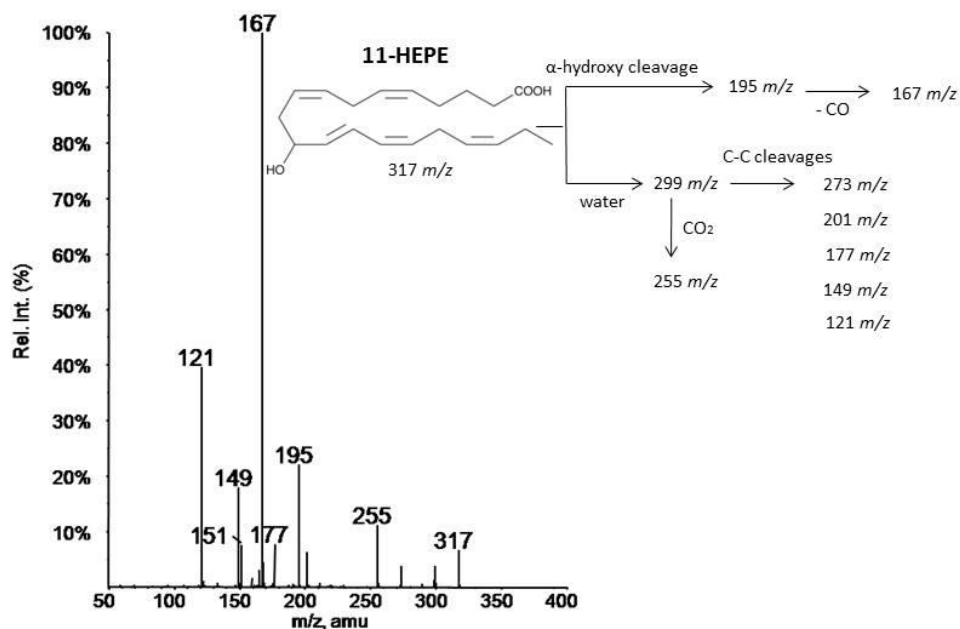


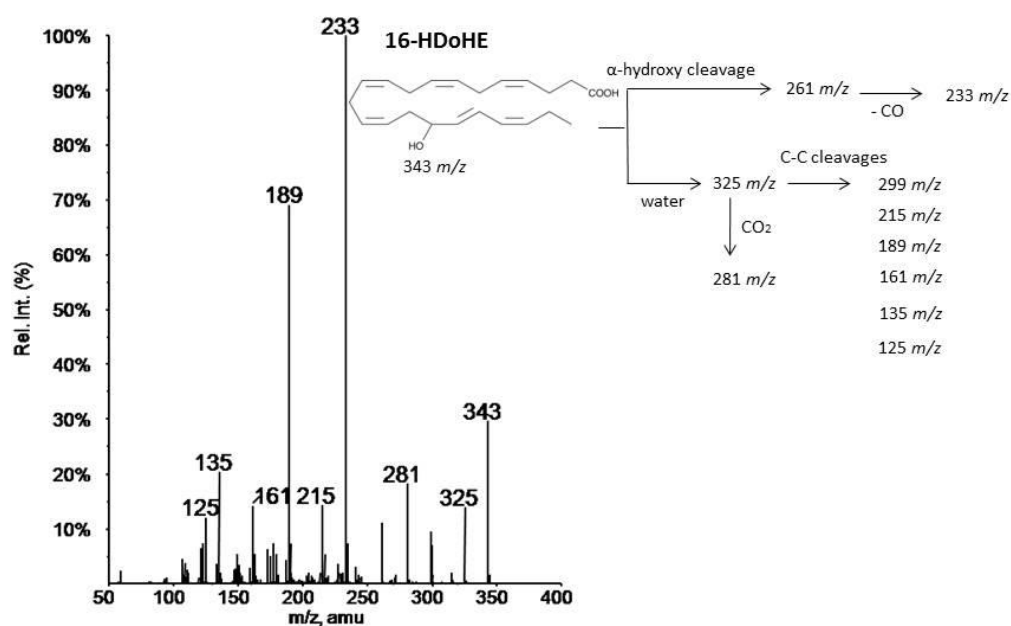
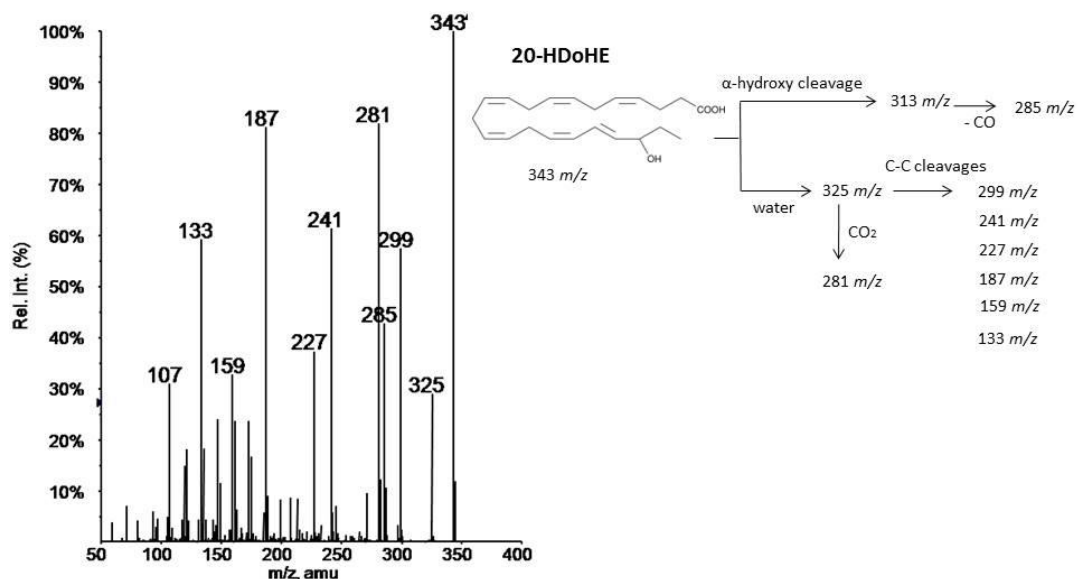
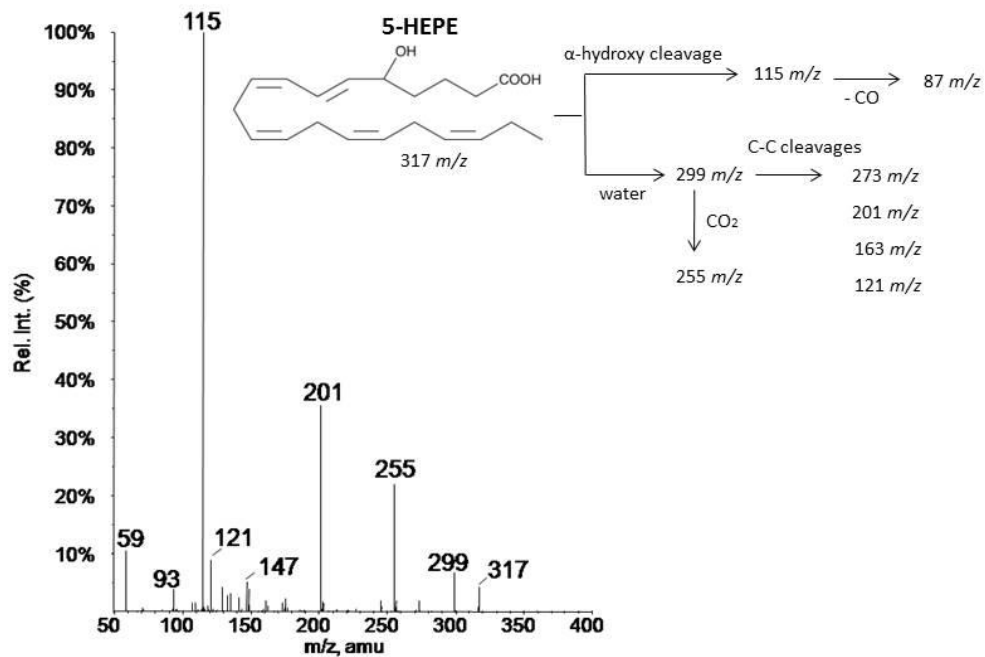
Supplementary Material S1: Common and specific transitions suggested for hydroxy-derivates from ARA, EPA and DHA. Product ion spectrum at m/z 319 for HETEs, m/z 317 for HEPEs, and m/z 343 for HDoHEs were obtained from database of *LIPID MAPS* at CID 30V. No spectra was found for 19-HETE.

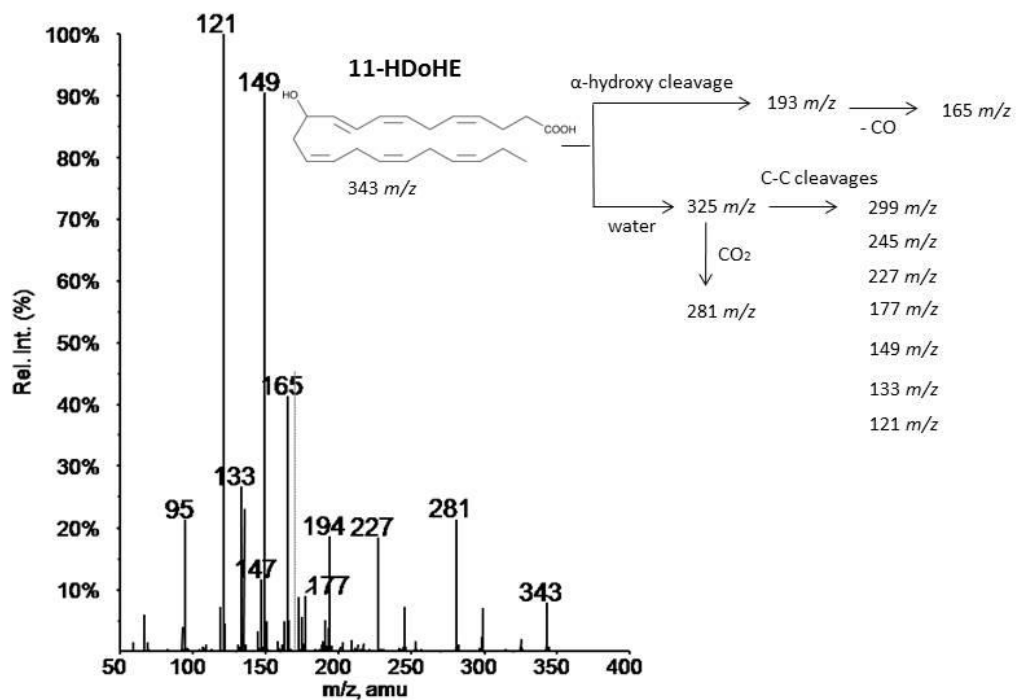
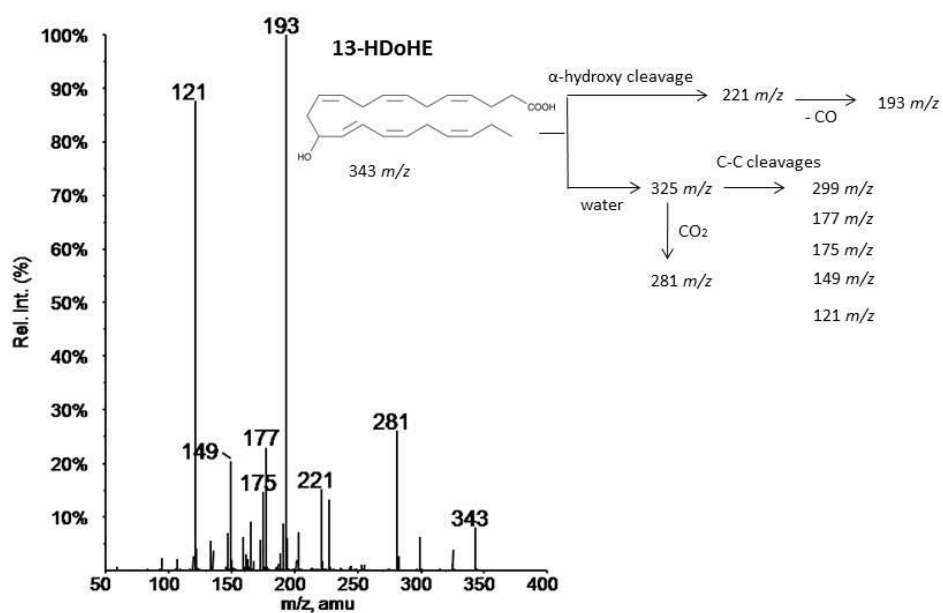
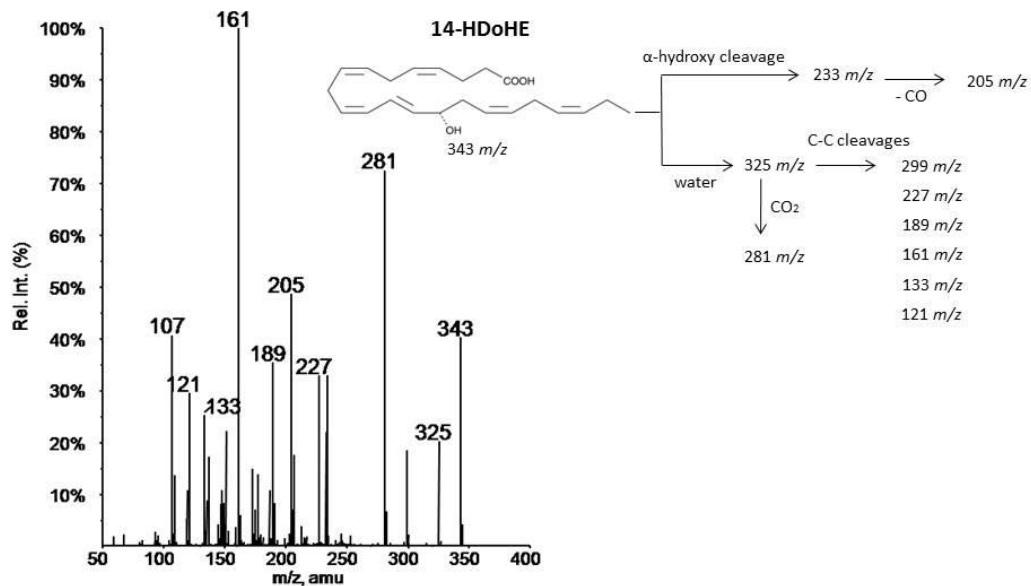


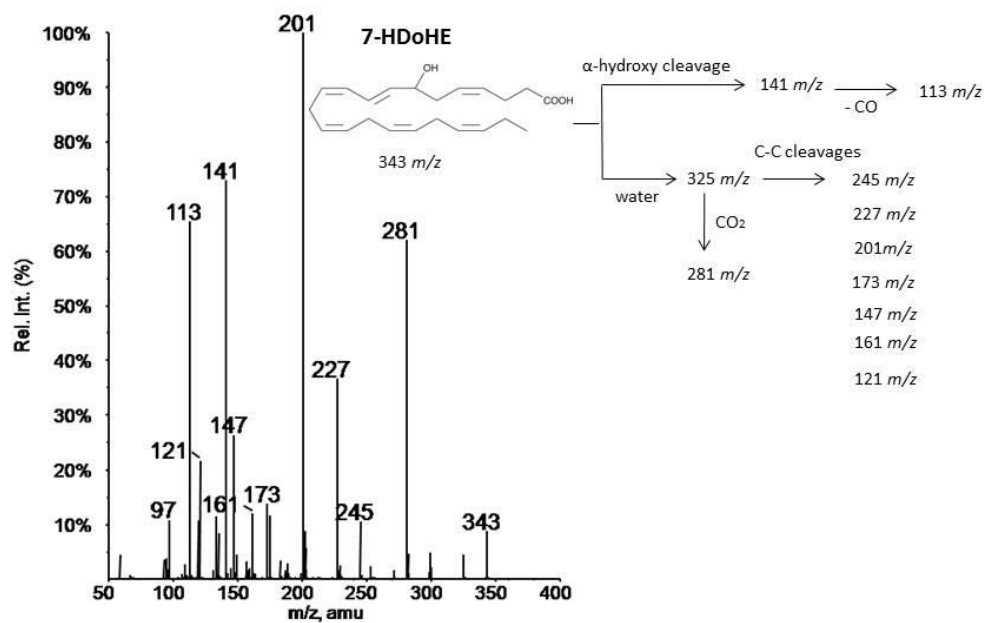
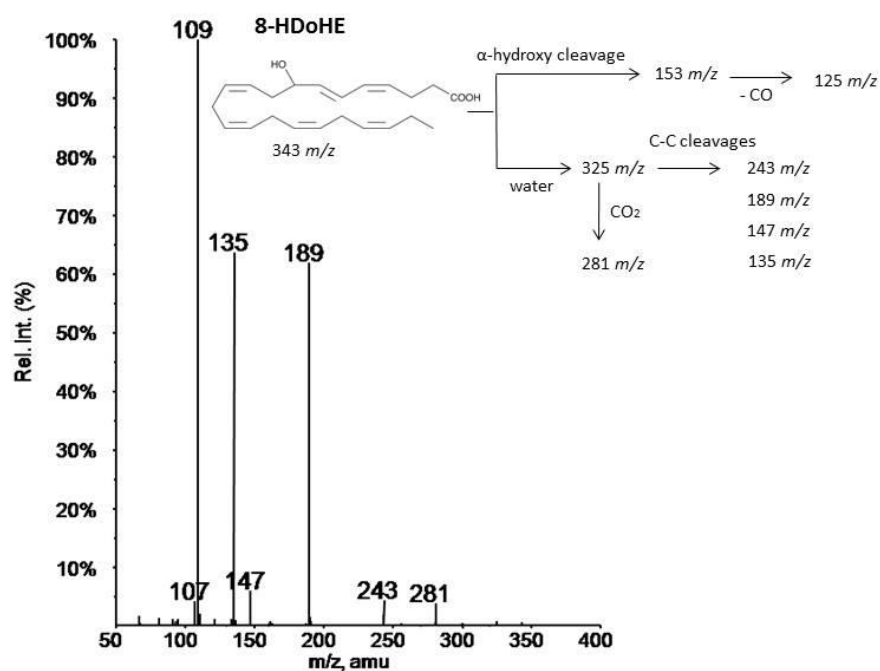
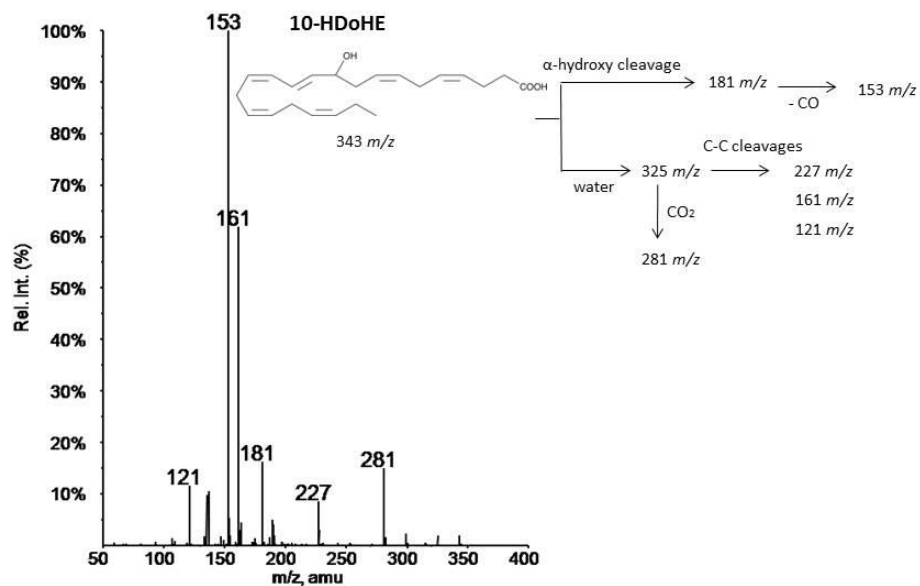


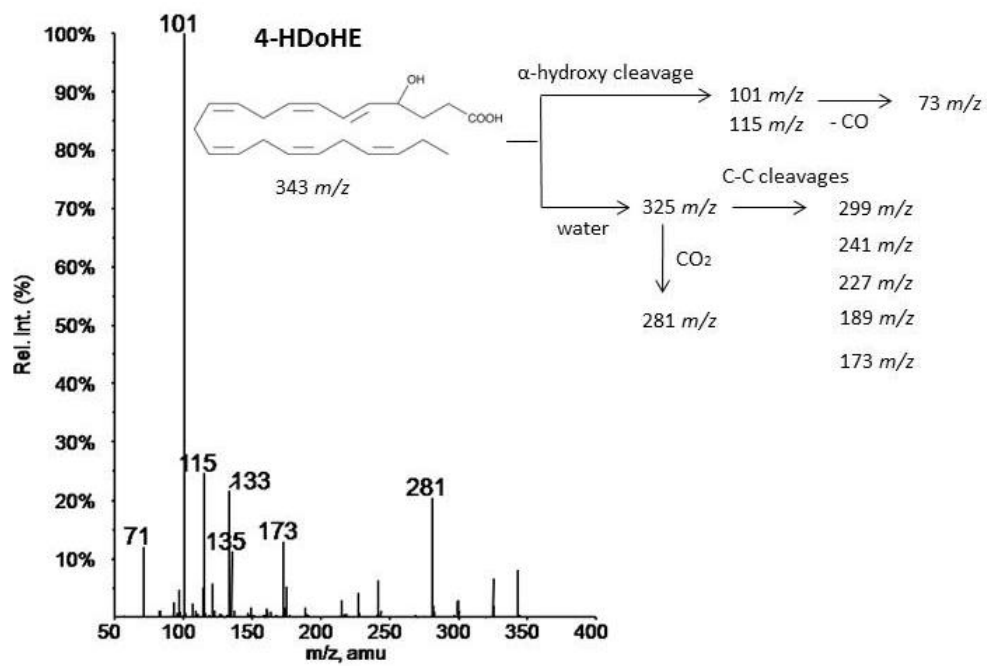




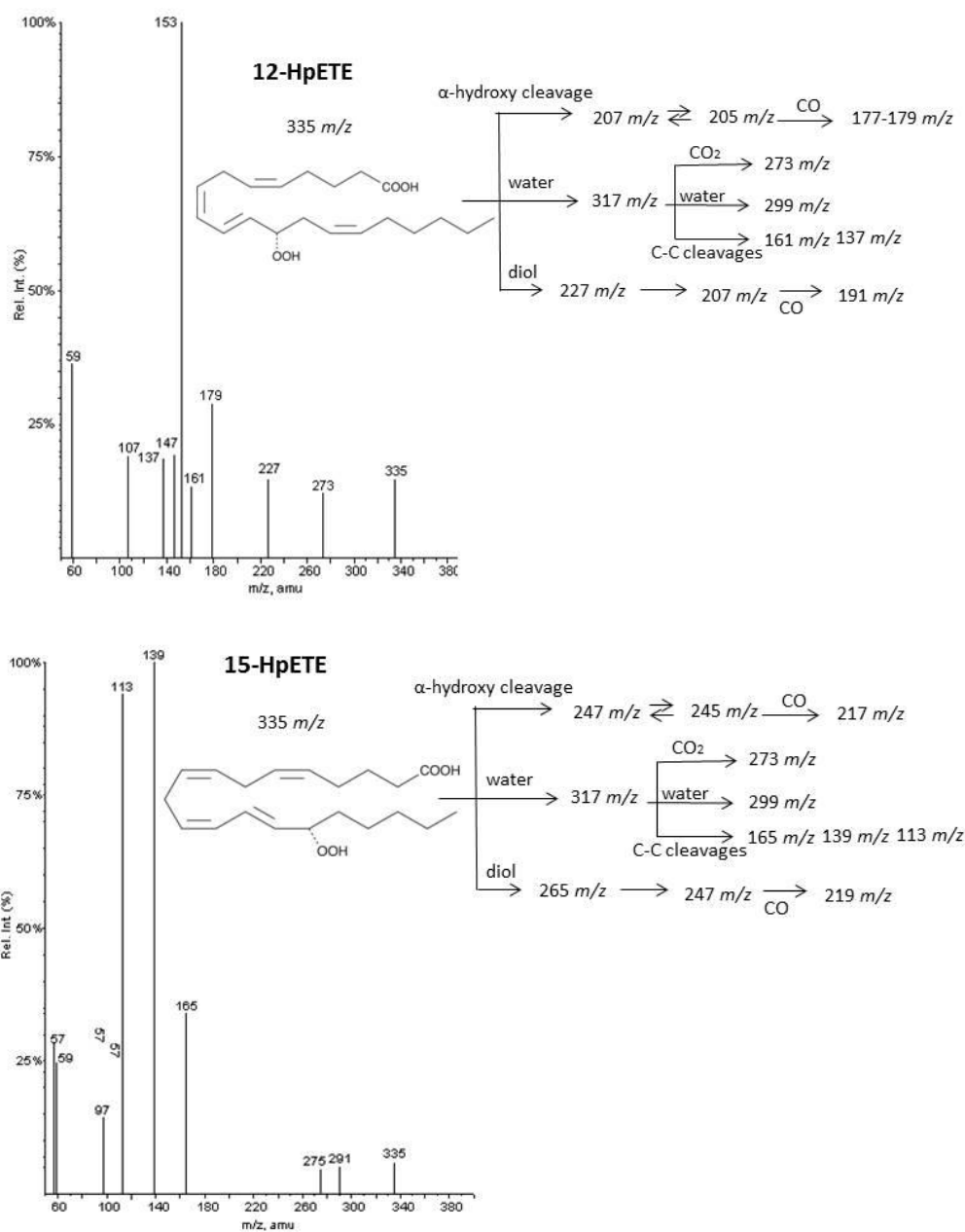


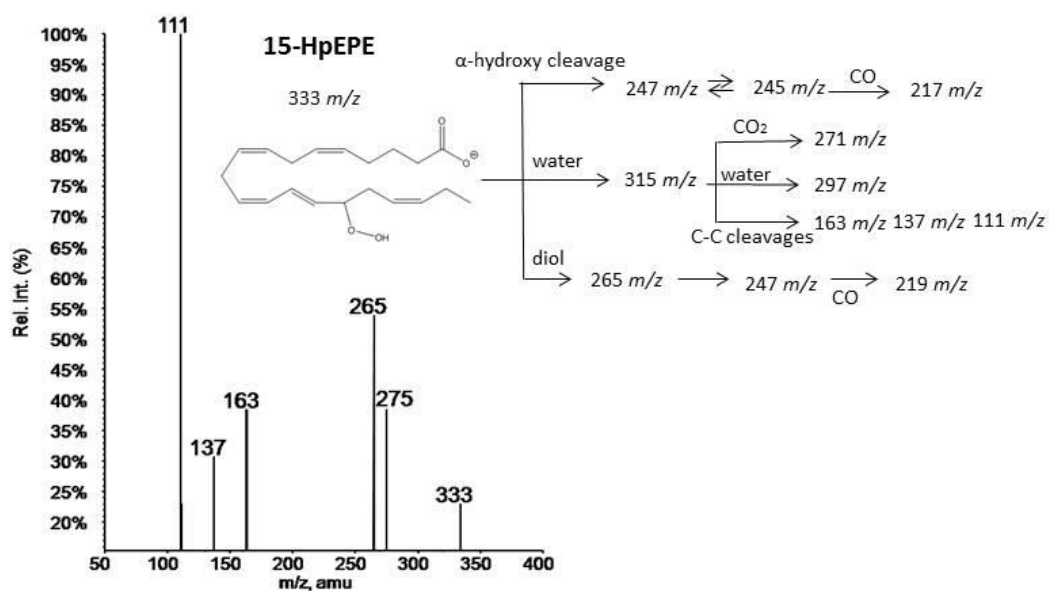
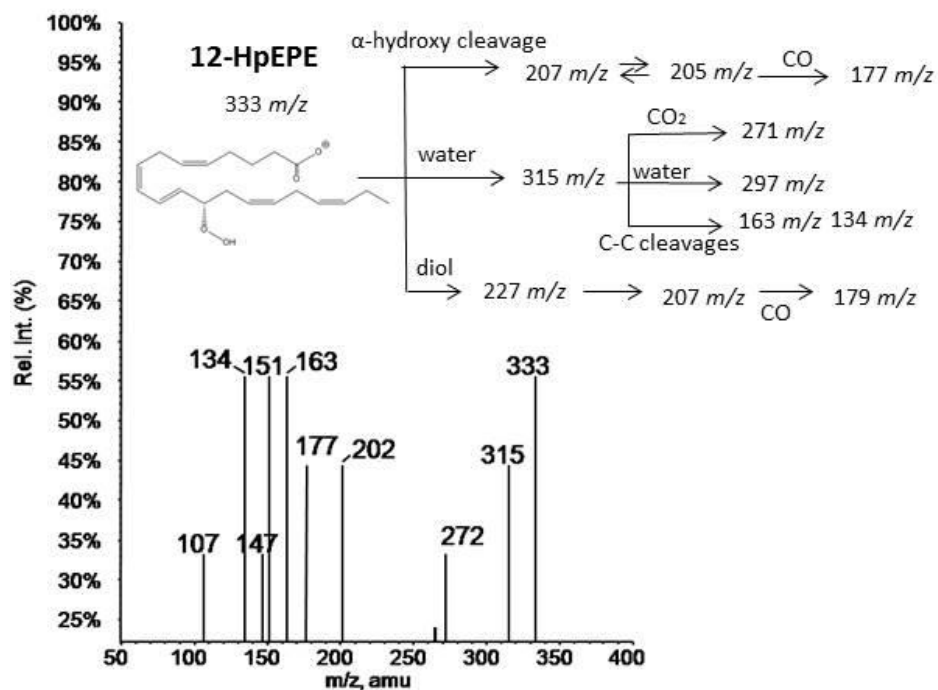




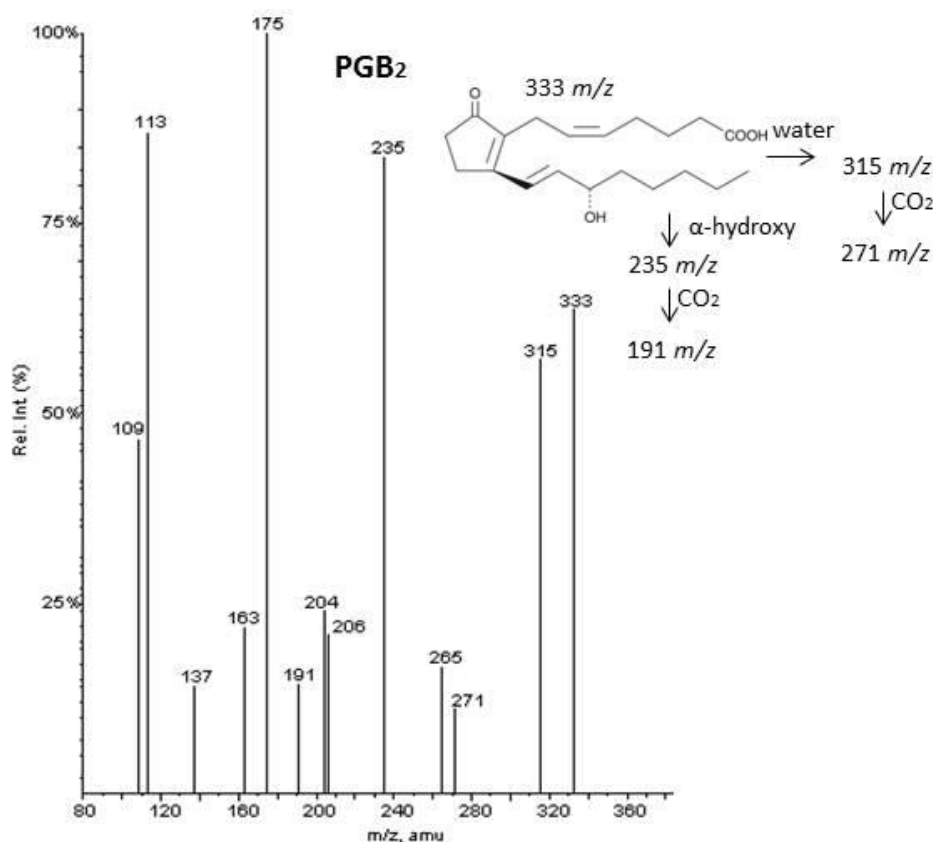
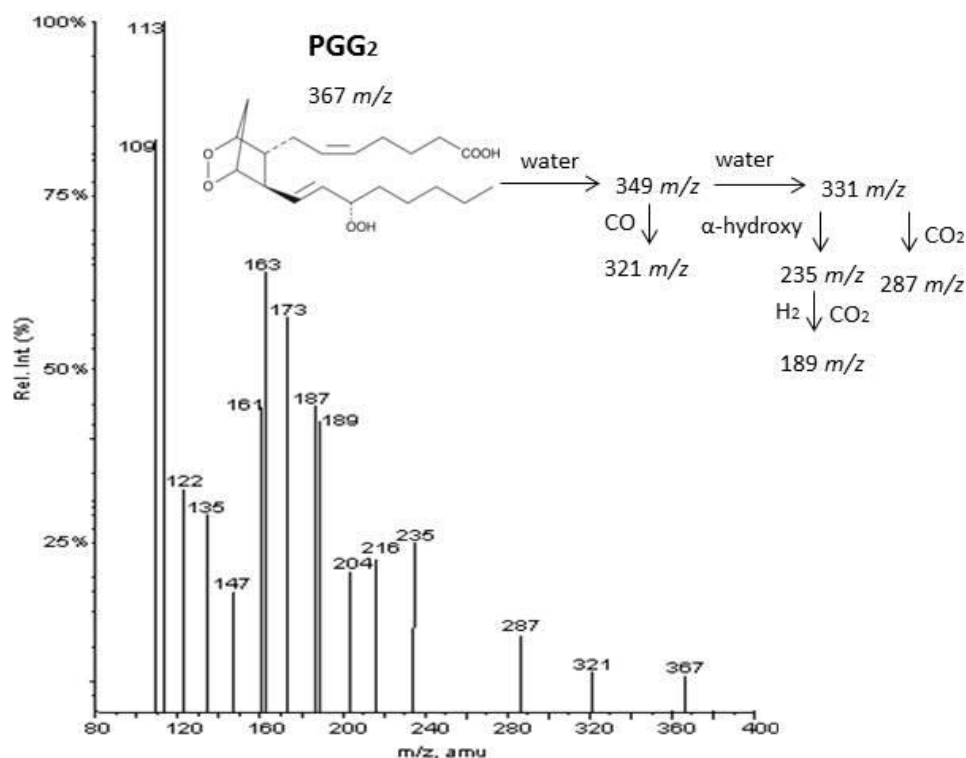


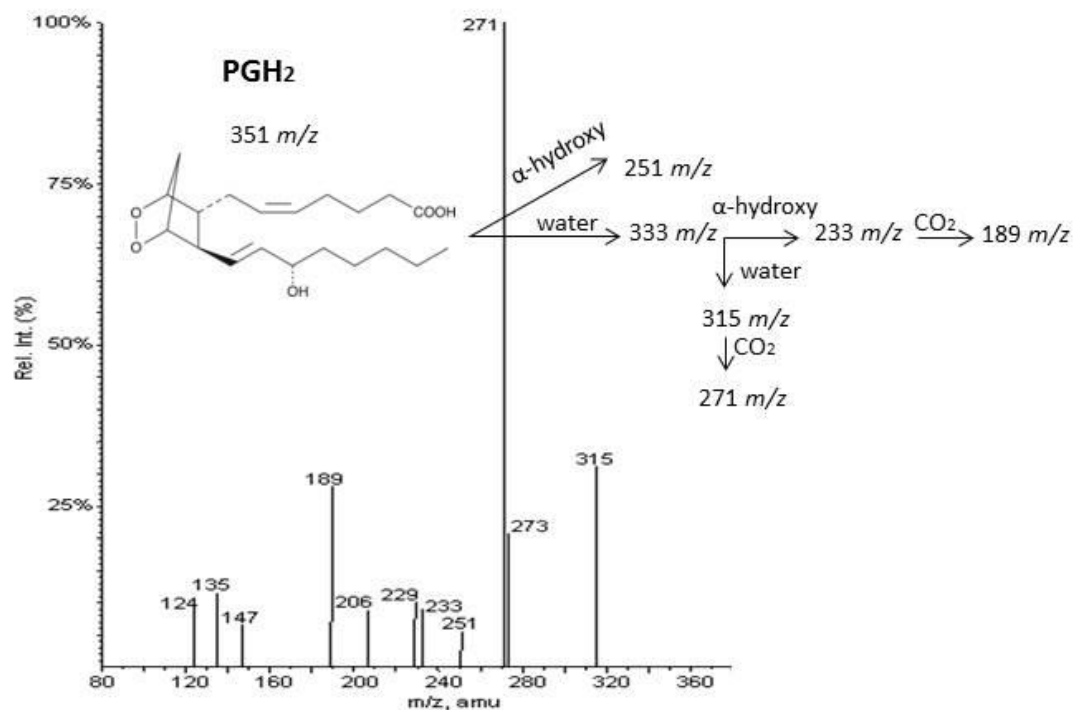
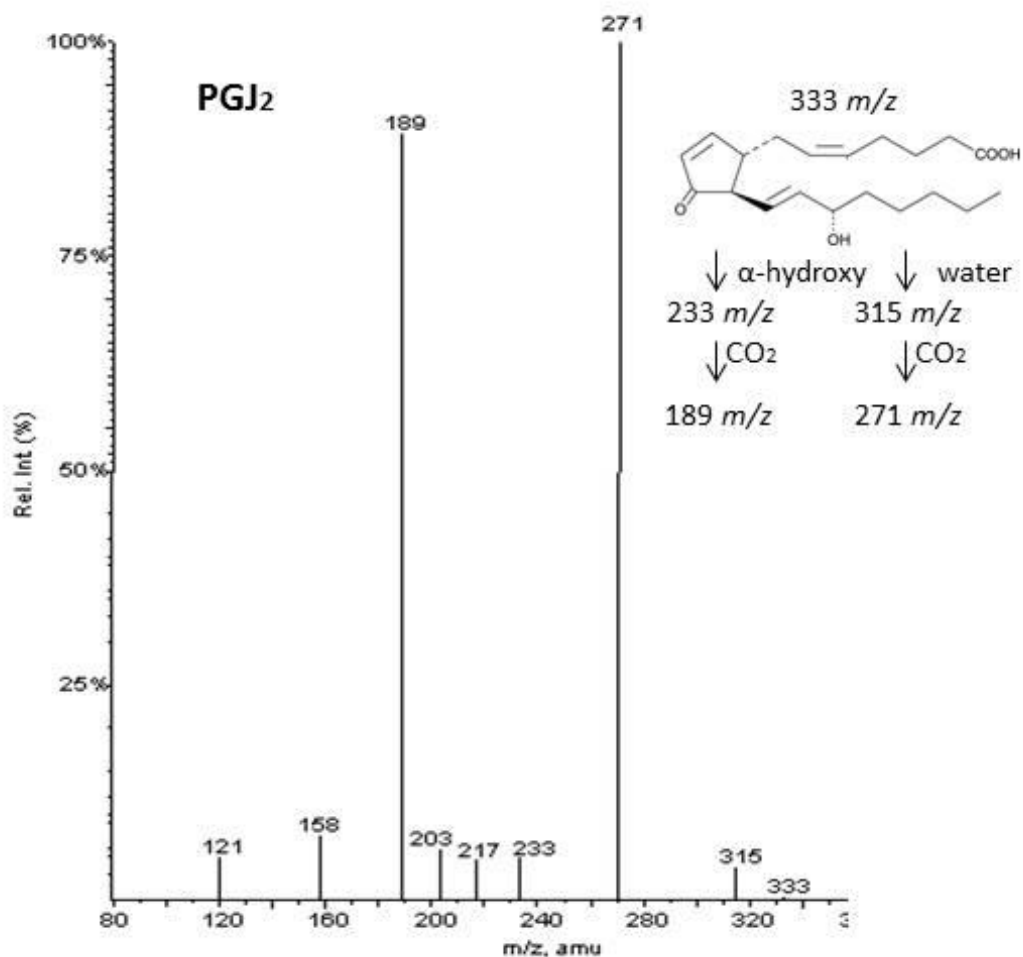
Supplementary Material S2: Common and specific transitions suggested for 12 and 15 hydroperoxy-derivates of ARA and EPA. Product ion spectrum at m/z 335 for HpETEs, and m/z 333 for HpEPEs were obtained from database of *LIPID MAPS* at CID 30V.

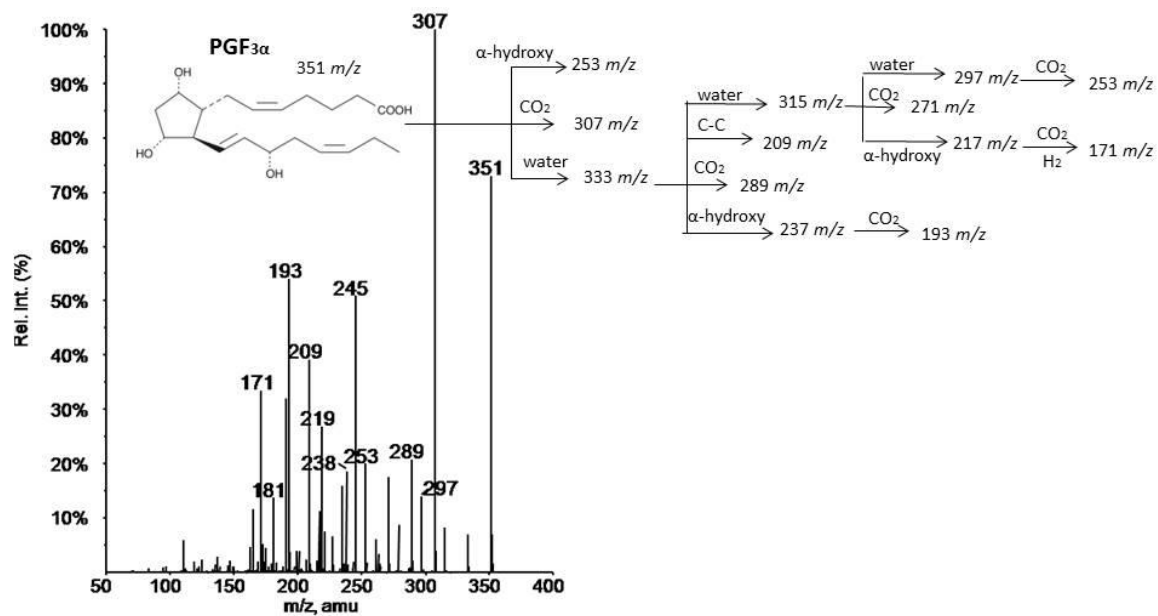
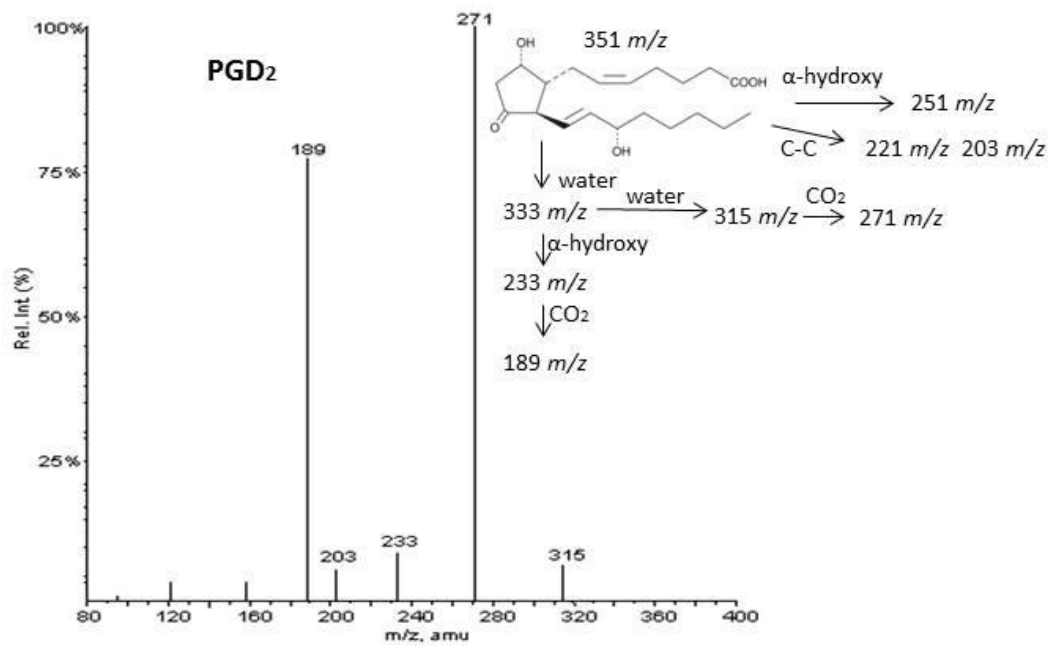


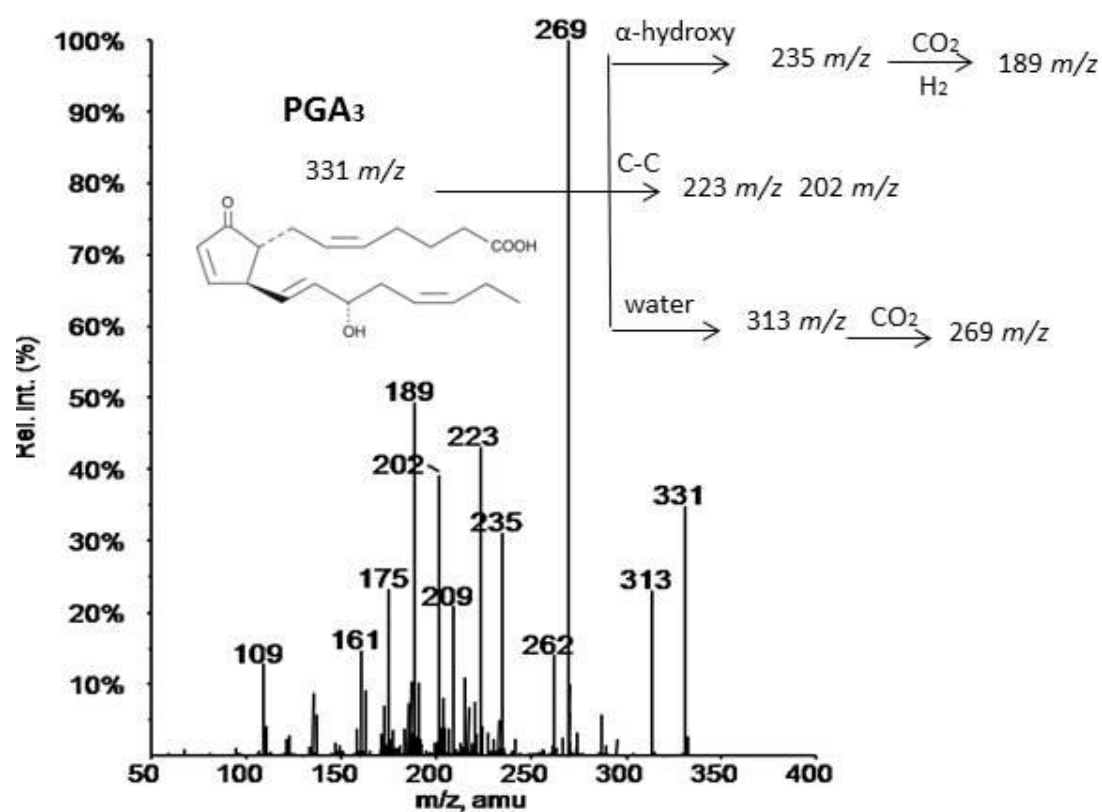
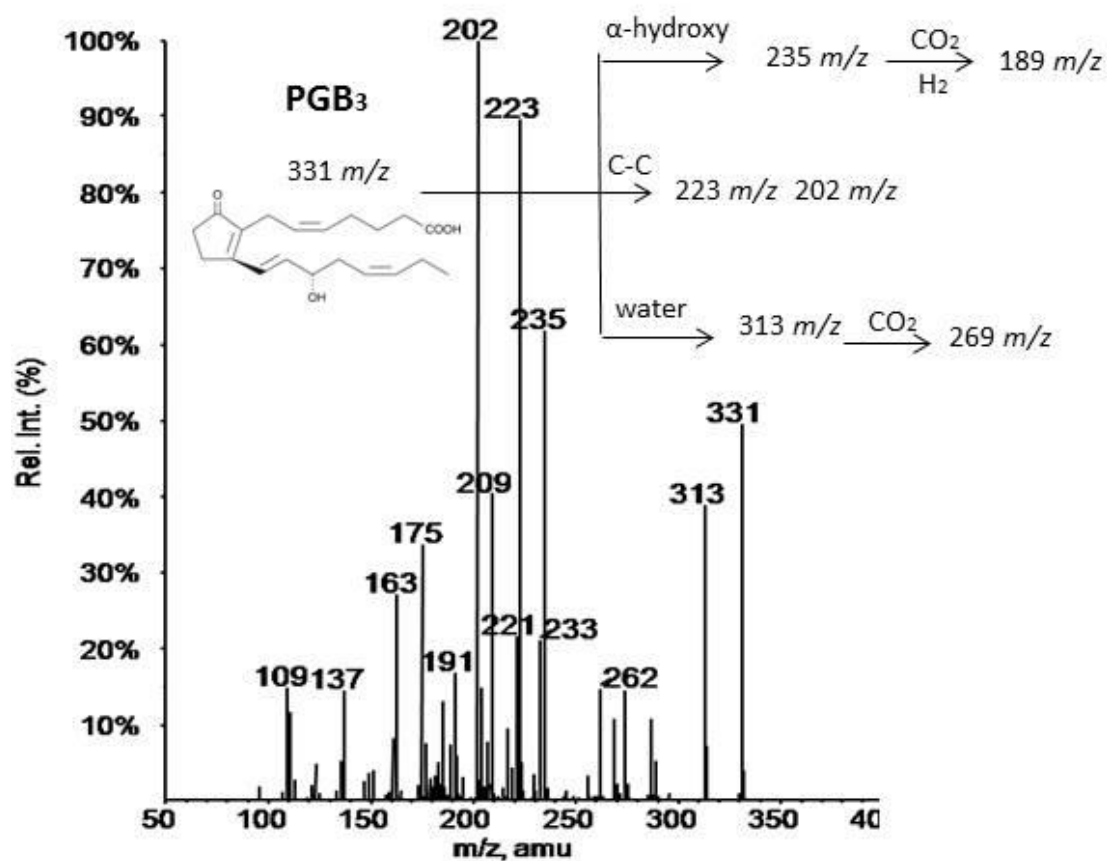


Supplementary Materials S3: Fragmentation pattern suggested for prostaglandins derived from ARA and EPA. Product ion spectrum at m/z 331, m/z 333, m/z 351, and m/z 367 were obtained from database of *LIPID MAPS* at CID 30V.

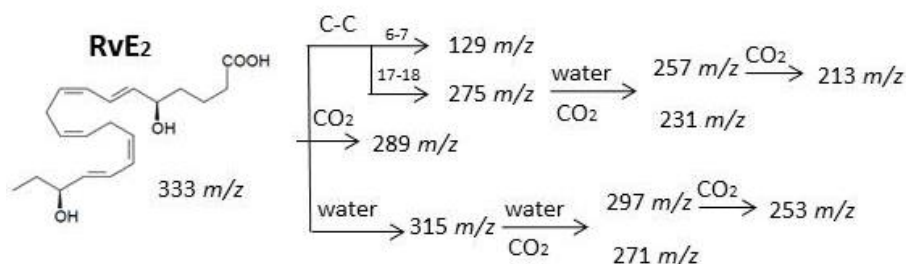




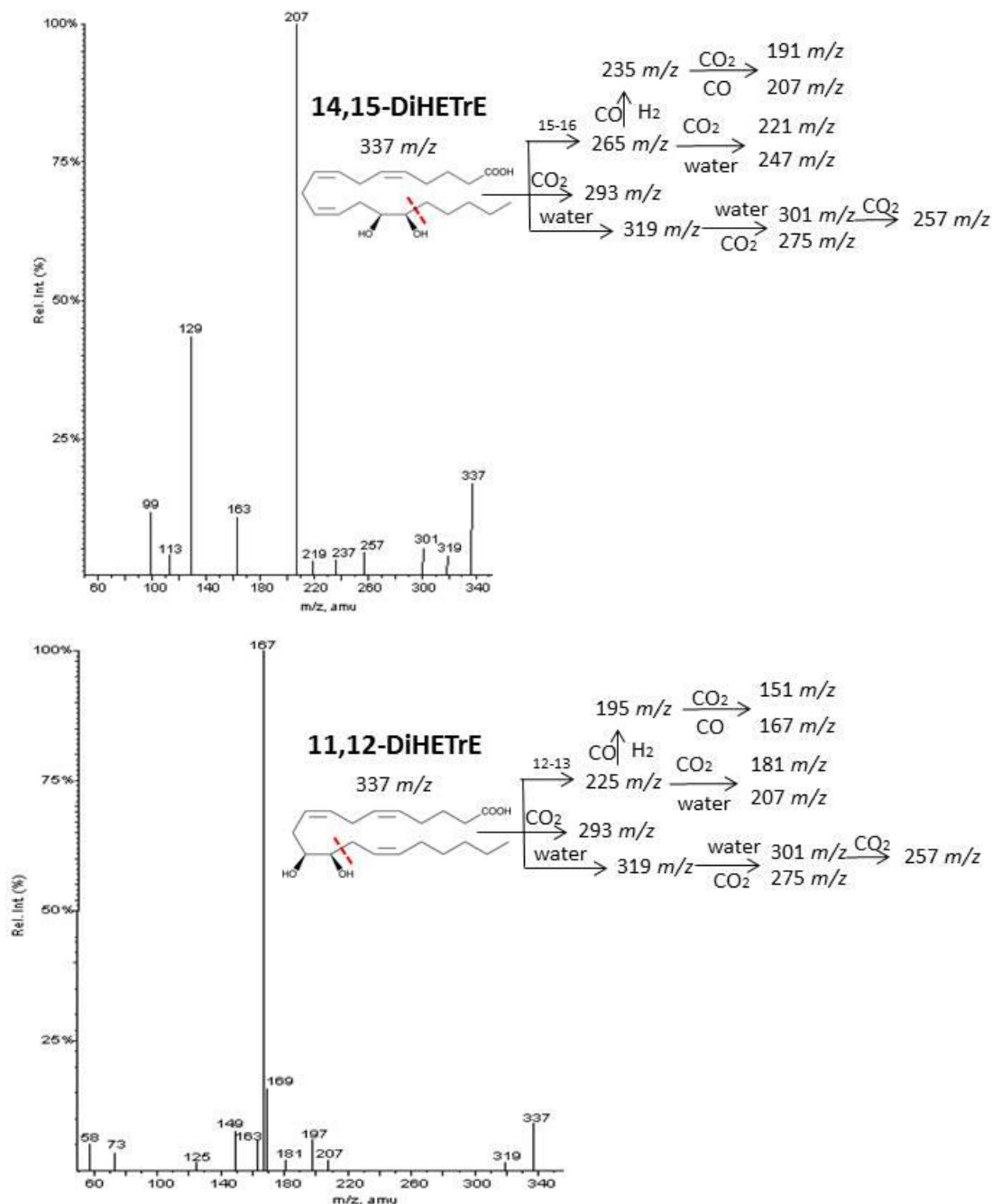


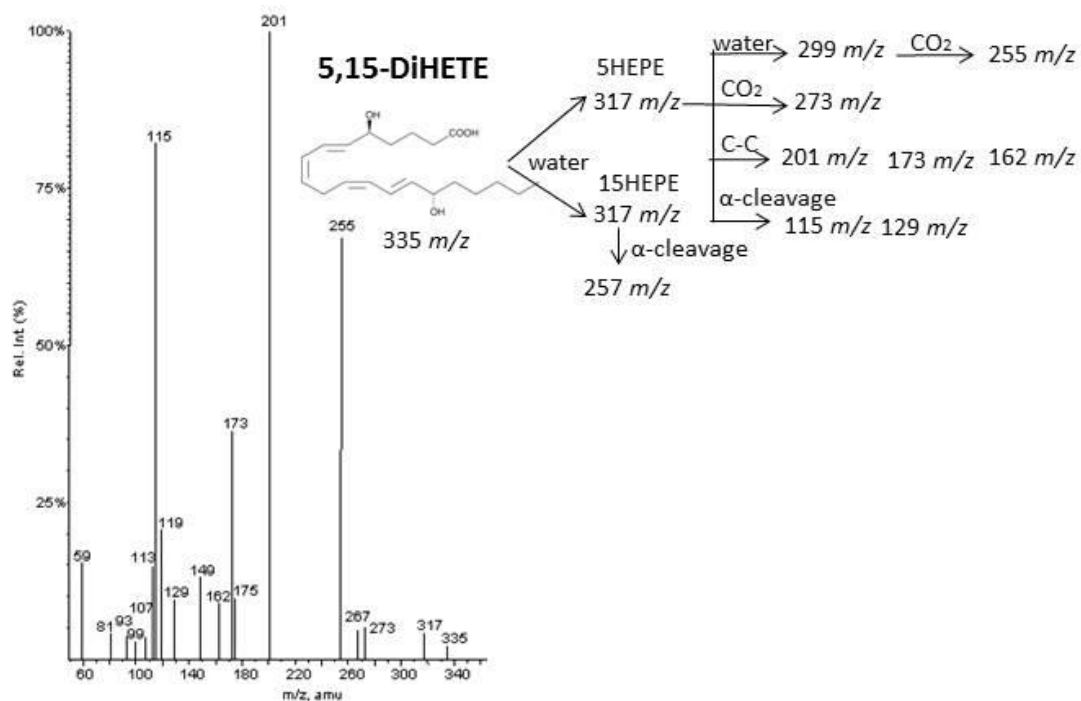
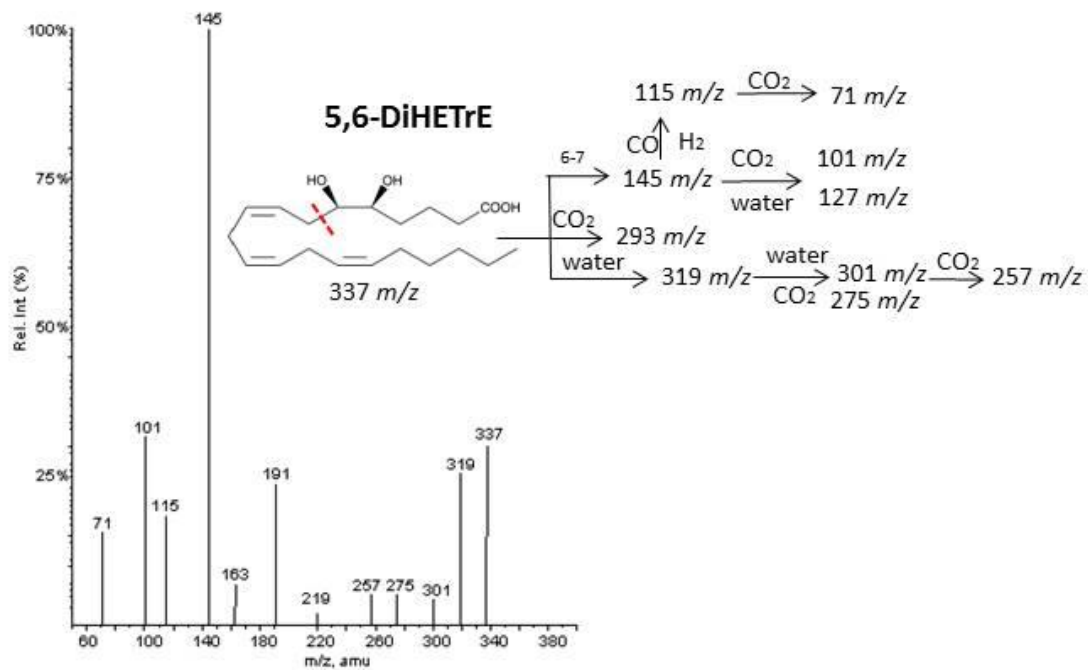


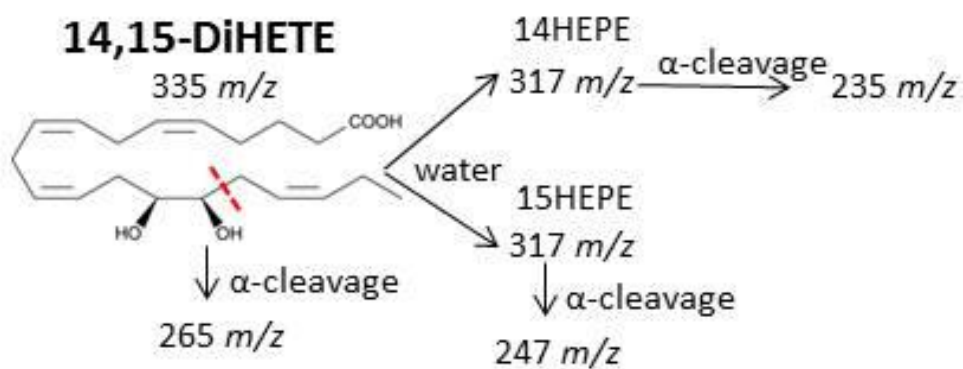
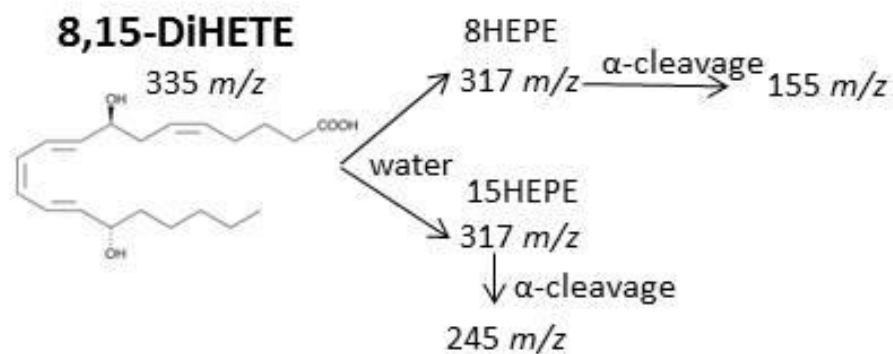
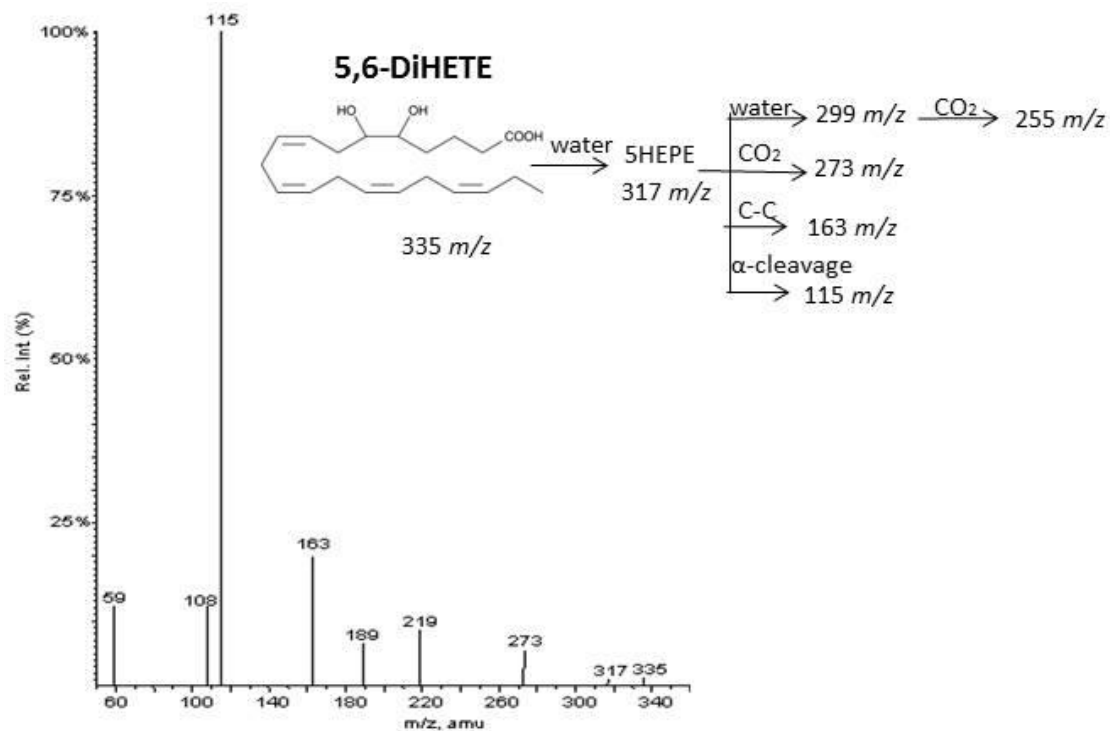
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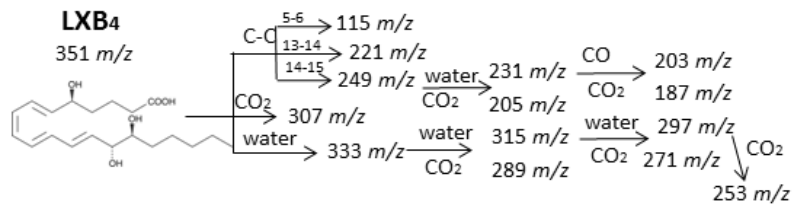
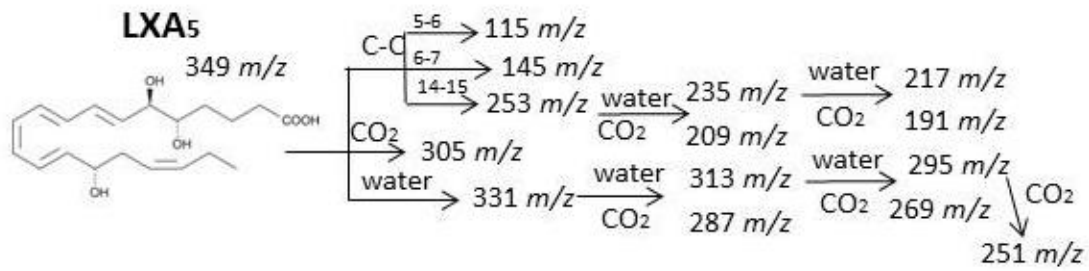
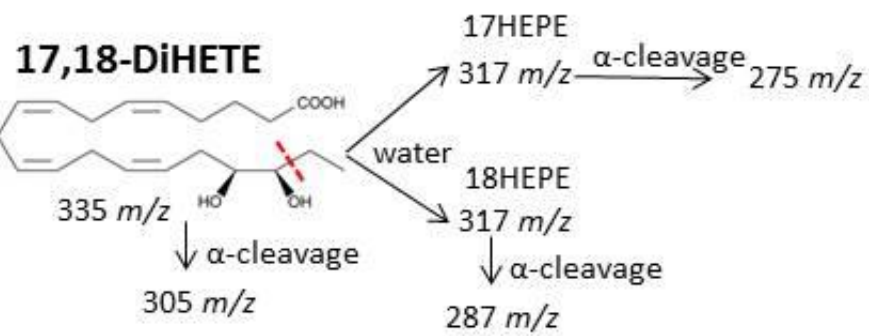


Supplementary Materials S5: Fragmentation pattern suggested for LxB₄ (product ion spectrum at m/z 351 [33]), and several DiHETEs and DiHETrEs (product ion spectrum at m/z 335 and m/z 337 obtained from *LIPID MAPS* at CID 30V). MS/MS spectrum was not found for LxA₅, 8,15-DiHETE, 14,15-DiHETE, and 17,18-DiHETE; thus, possible fragments for identification were suggested based on lipid structure.

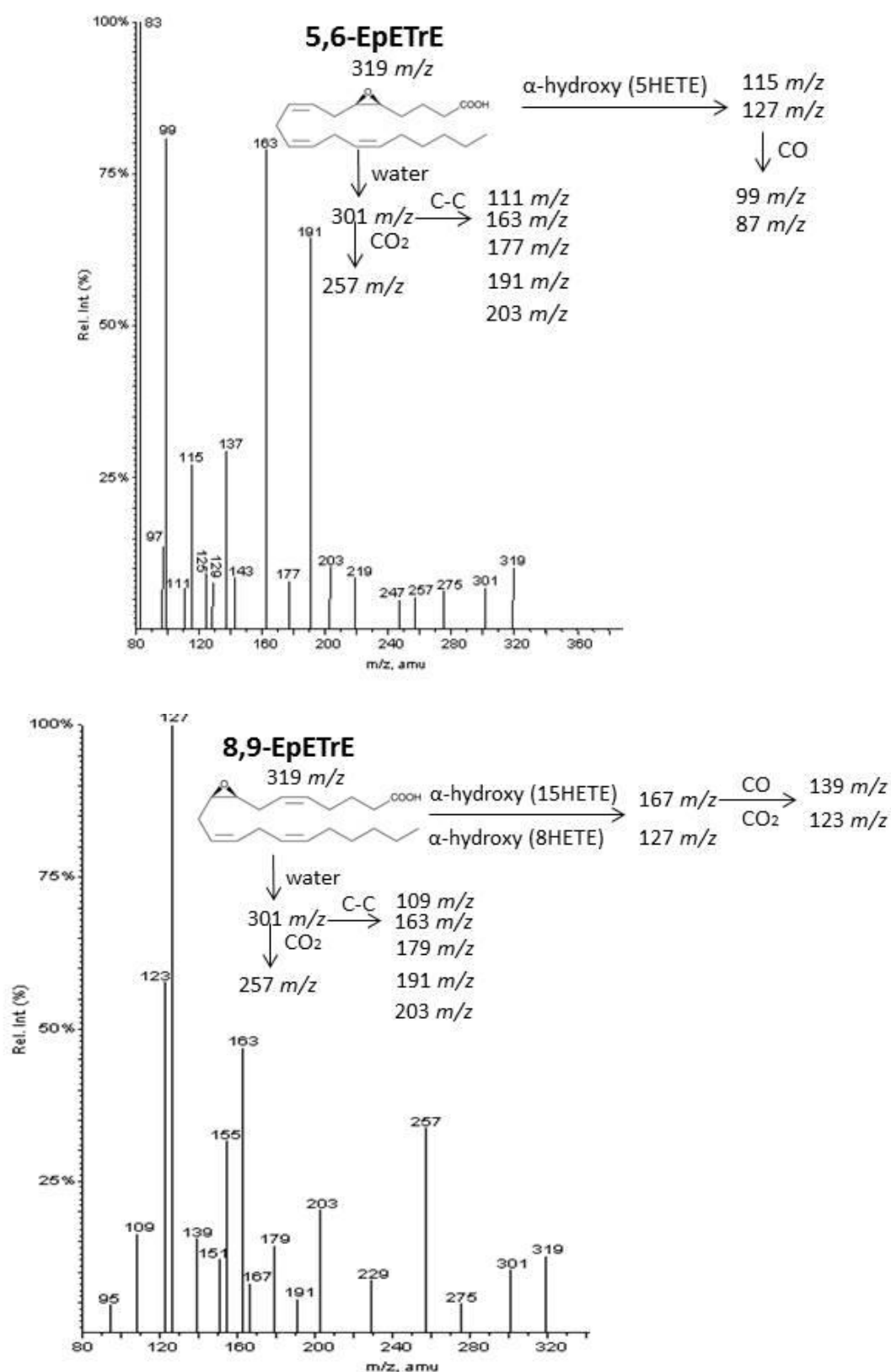


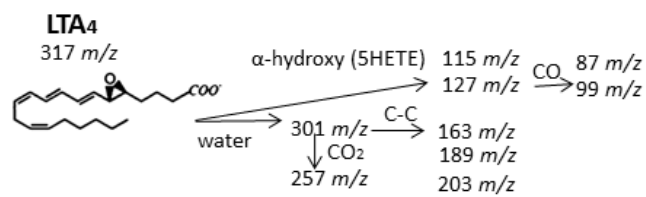
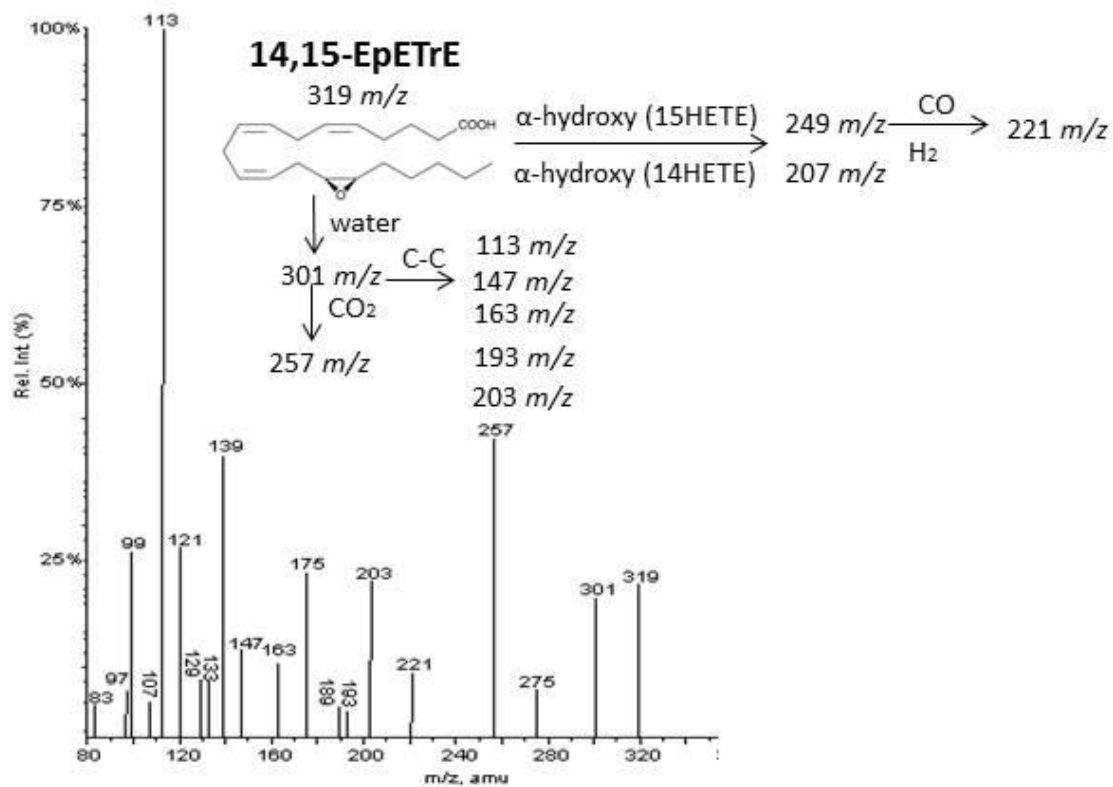




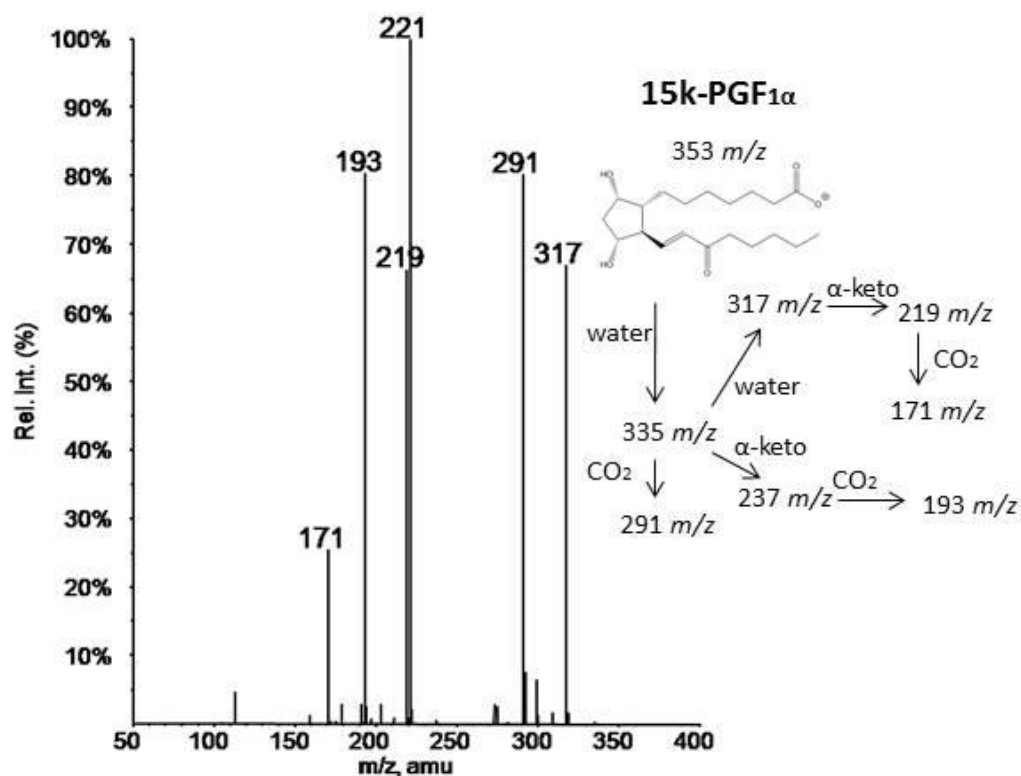
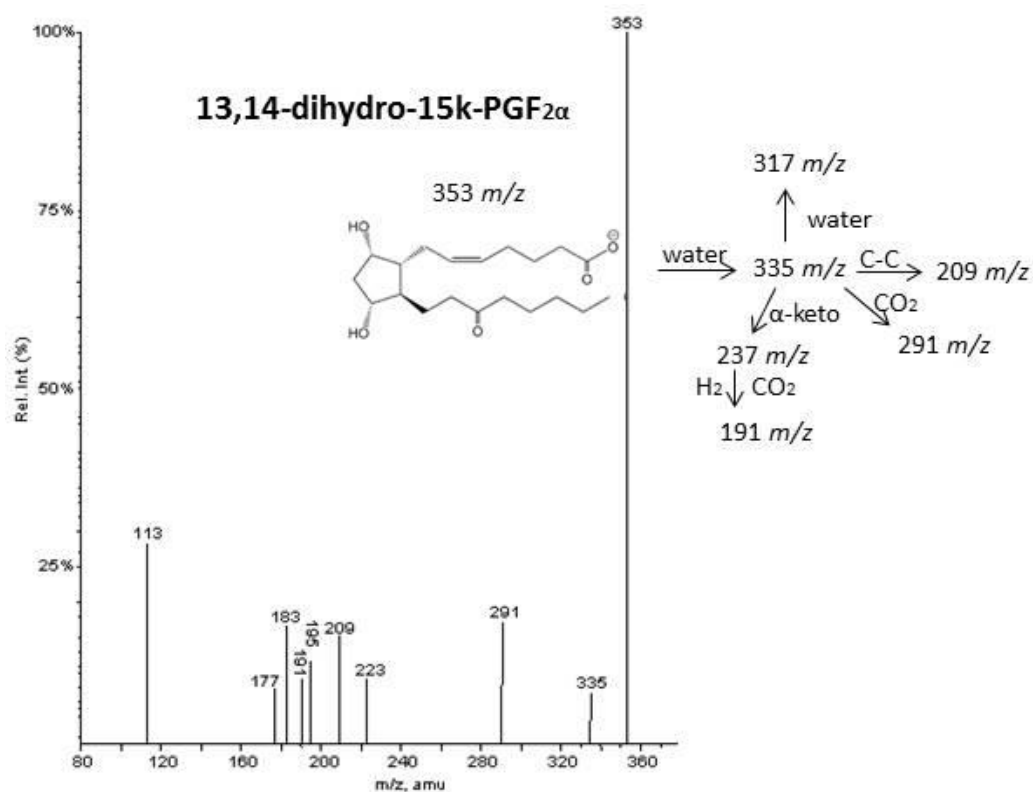


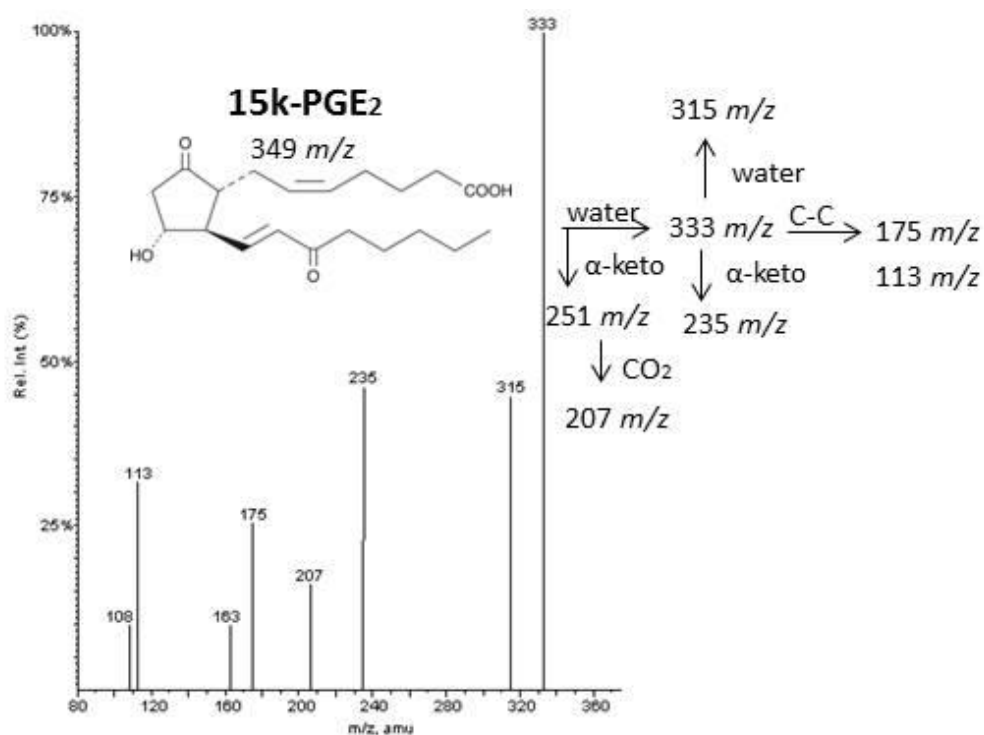
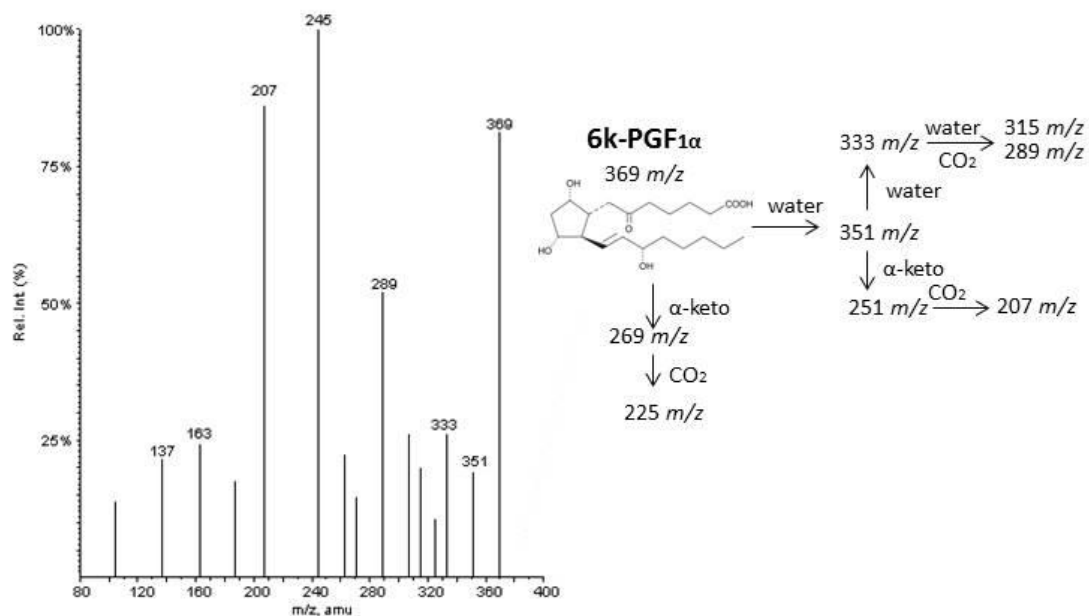
Supplementary Materials S6: Fragmentation pattern suggested for EpETrE isomers and LTA₄. Product ion spectrum at m/z 319 were obtained from database of *LIPID MAPS* at CID 30V, and m/z 317 was obtained from Murphy et al [33].

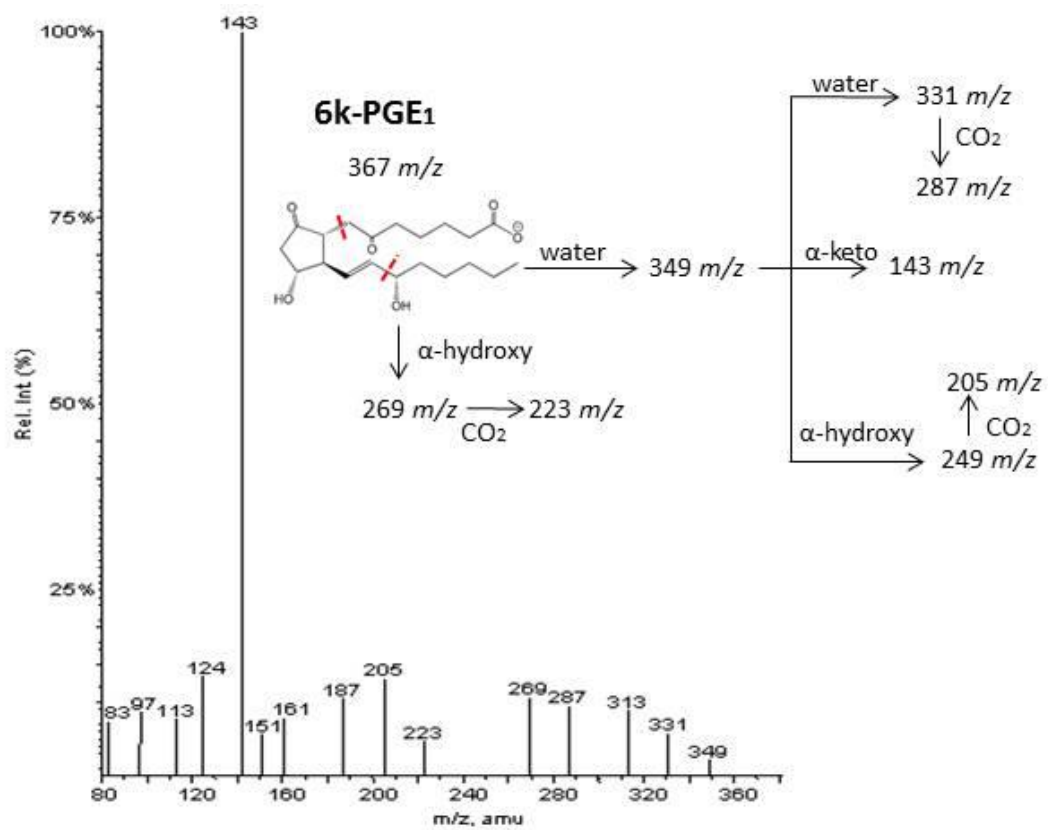
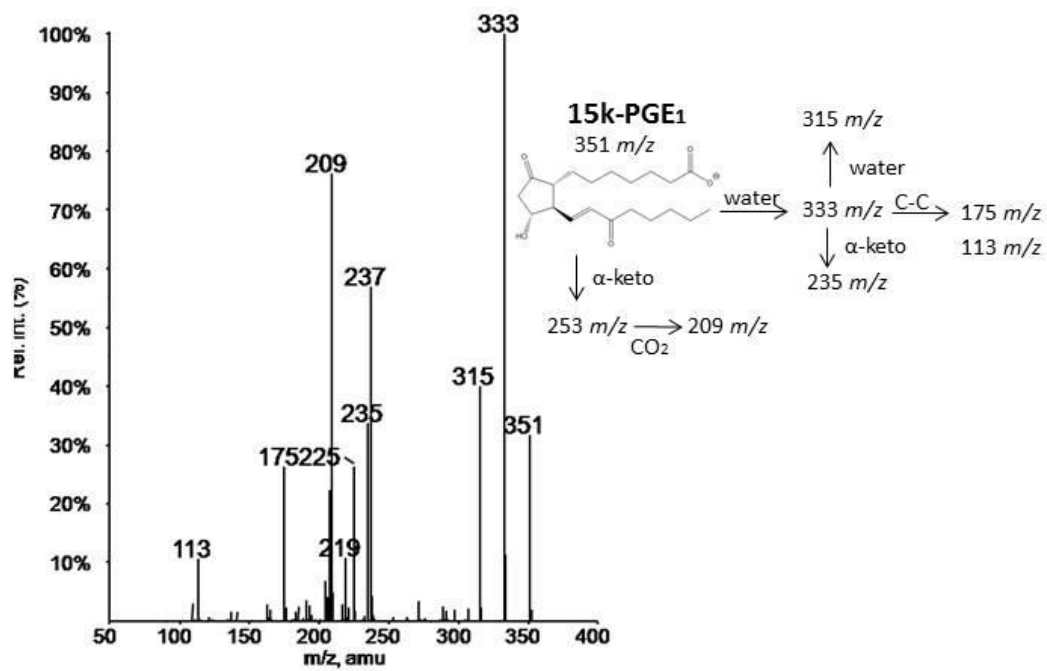


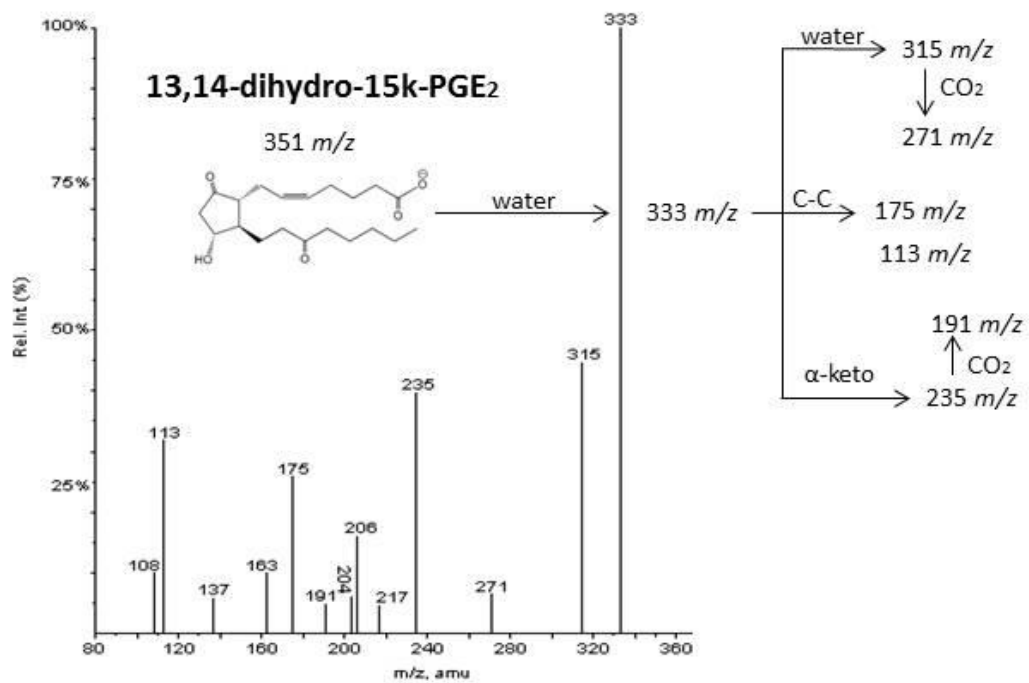


Supplementary Materials S7: Fragmentation pattern suggested for several keto-PGs. Product ion spectrum at m/z 349, m/z 351, m/z 353, m/z 367, and m/z 369 were obtained from database of *LIPID MAPS* at CID 30V.









Supplementary Materials S8: Fragmentation pattern suggested for TXB₂ and TXA₂. The product ion spectrum at and m/z 369 was obtained from *LIPID MAPS* at CID 30V. Characteristic MS/MS transitions were suggested for TXA₂ based on lipid structure.

