

Figure S1. Examples of chromatograms of methyl esters of fatty acids including two acetylenic acids, octadeca-9,12-dien-6-ynoic (6a,9,12-18:3) and octadeca-9,12,15-dien-6-ynoic (6a,9,12,15-18:4), and some rare fatty acids (20:4n-3, 22:5n-3) found in bryophytes (a) *Dicranum* spp., (b) *Thuidium assimile*, (c) *Rhytidium rugosum*.

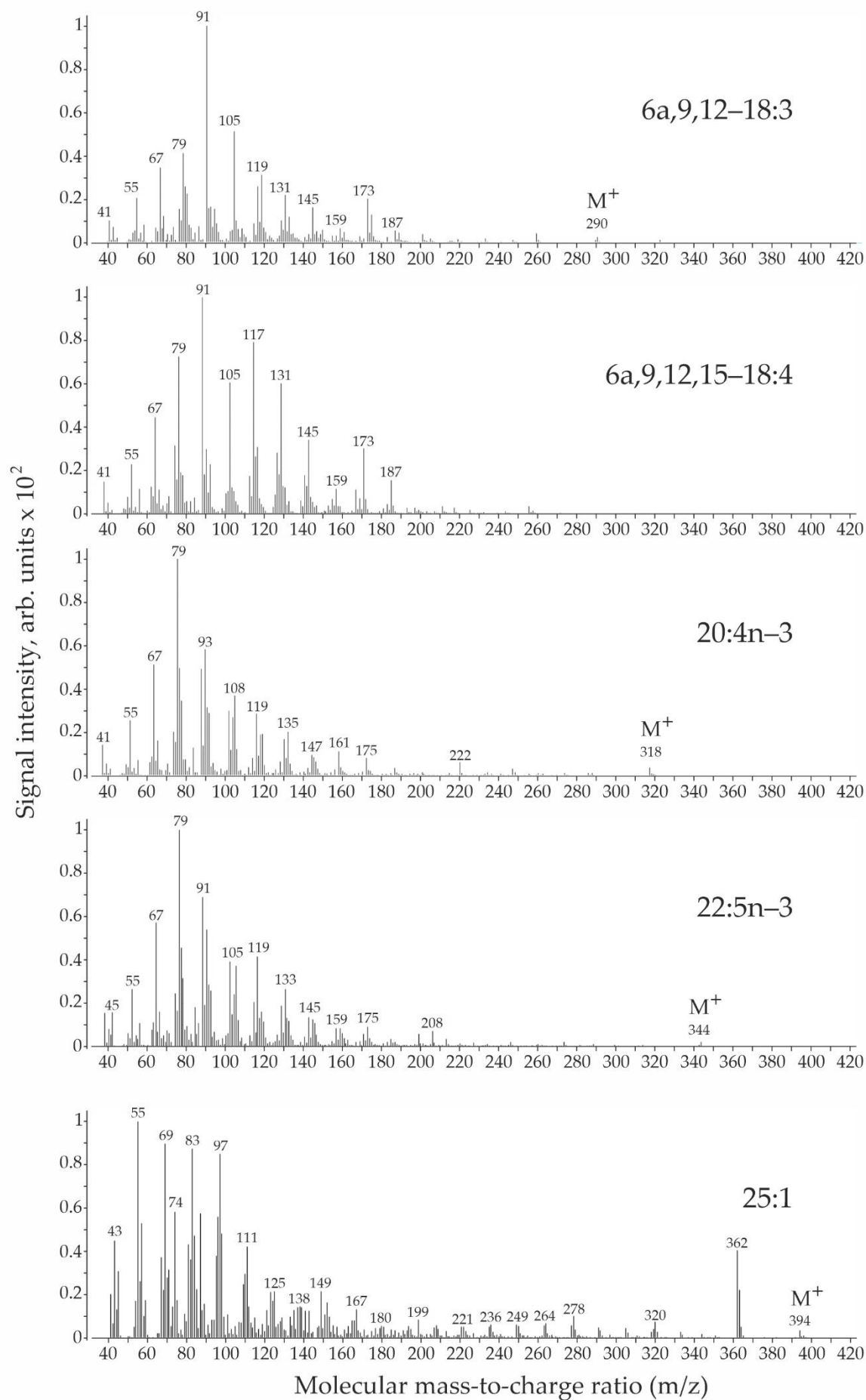


Figure S2. Mass spectra of two acetylenic acids, octadeca-9,12-dien-6-ynoic (6a,9,12–18:3) and octadeca-9,12,15-dien-6-ynoic (6a,9,12,15–18:4), two polyunsaturated fatty acids, 20:4n–3 and 22:5n–3, and one monounsaturated fatty acid, 25:1. M^+ —molecular ion.

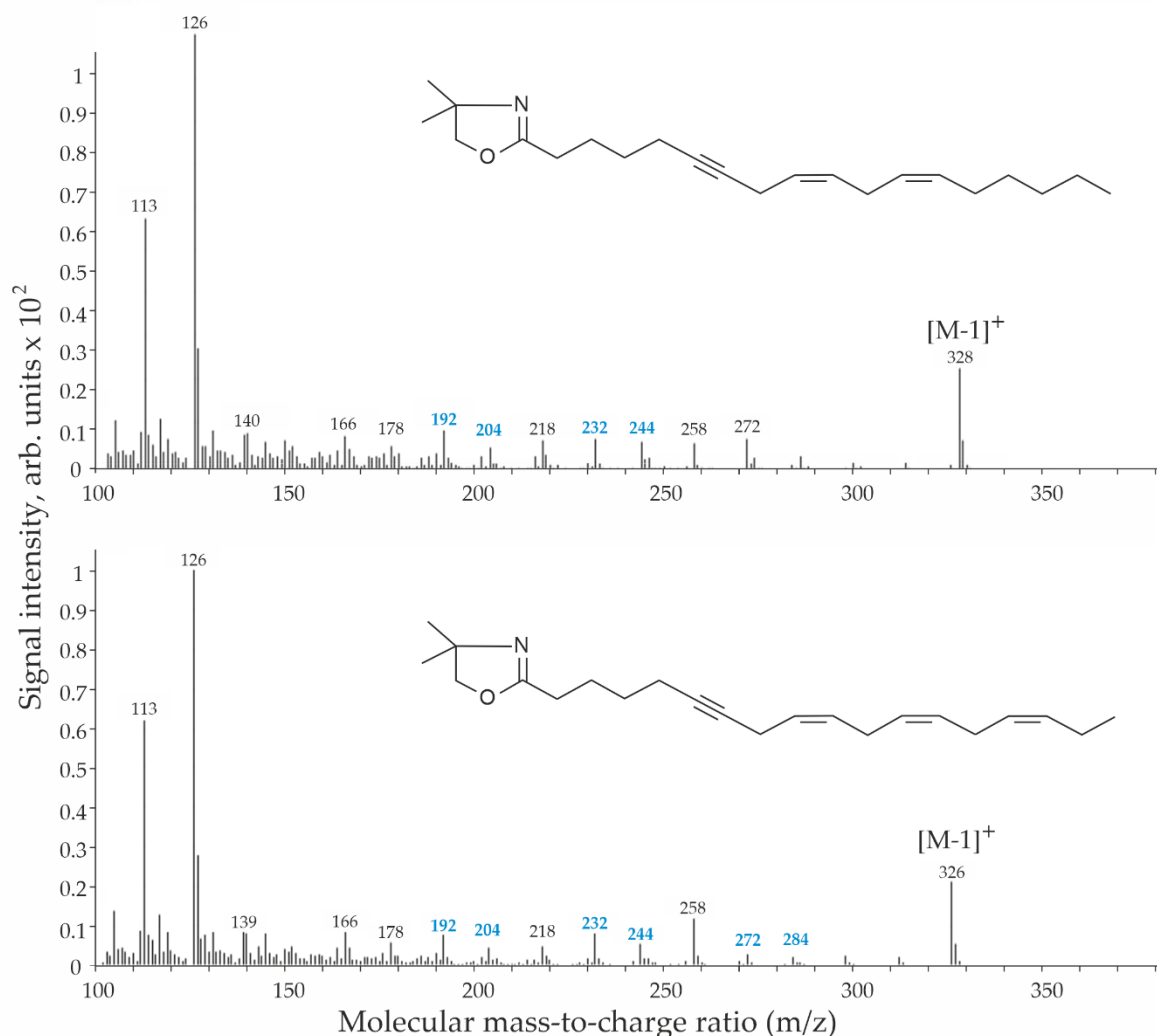


Figure S3. Mass spectra of dimethyloxazolic derivatives of two acetylenic FA: octadeca-9,12-dien-6-ynoic (6a,9,12–18:3) and octadeca-9,12,15-dien-6-ynoic (6a,9,12,15–18:4). Blue numbers show diagnostic fragments. $[M-1]^+$ —molecular ion minus one atomic mass.