

Fig. S1

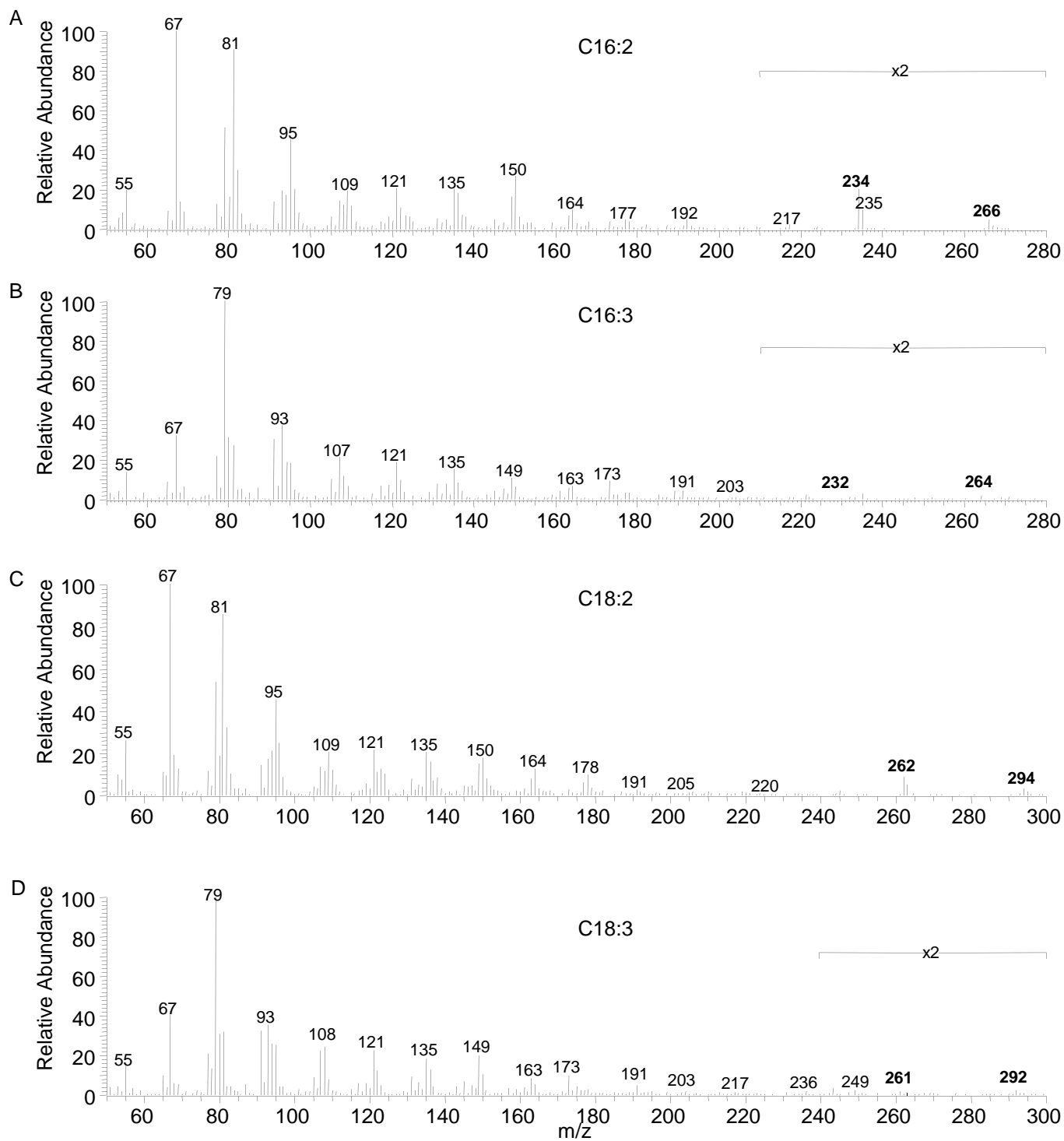


Fig. S2

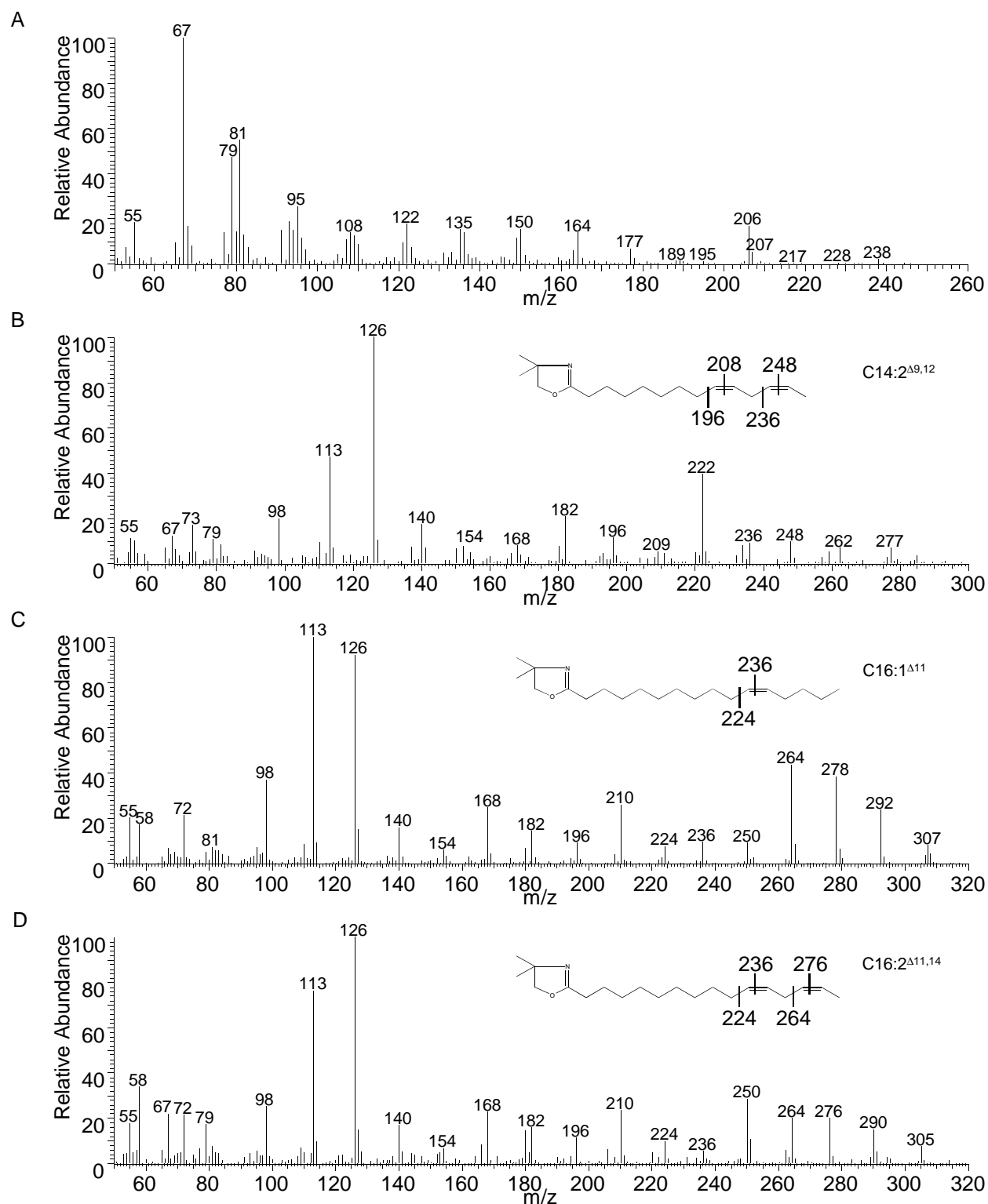


Fig. S2 continued

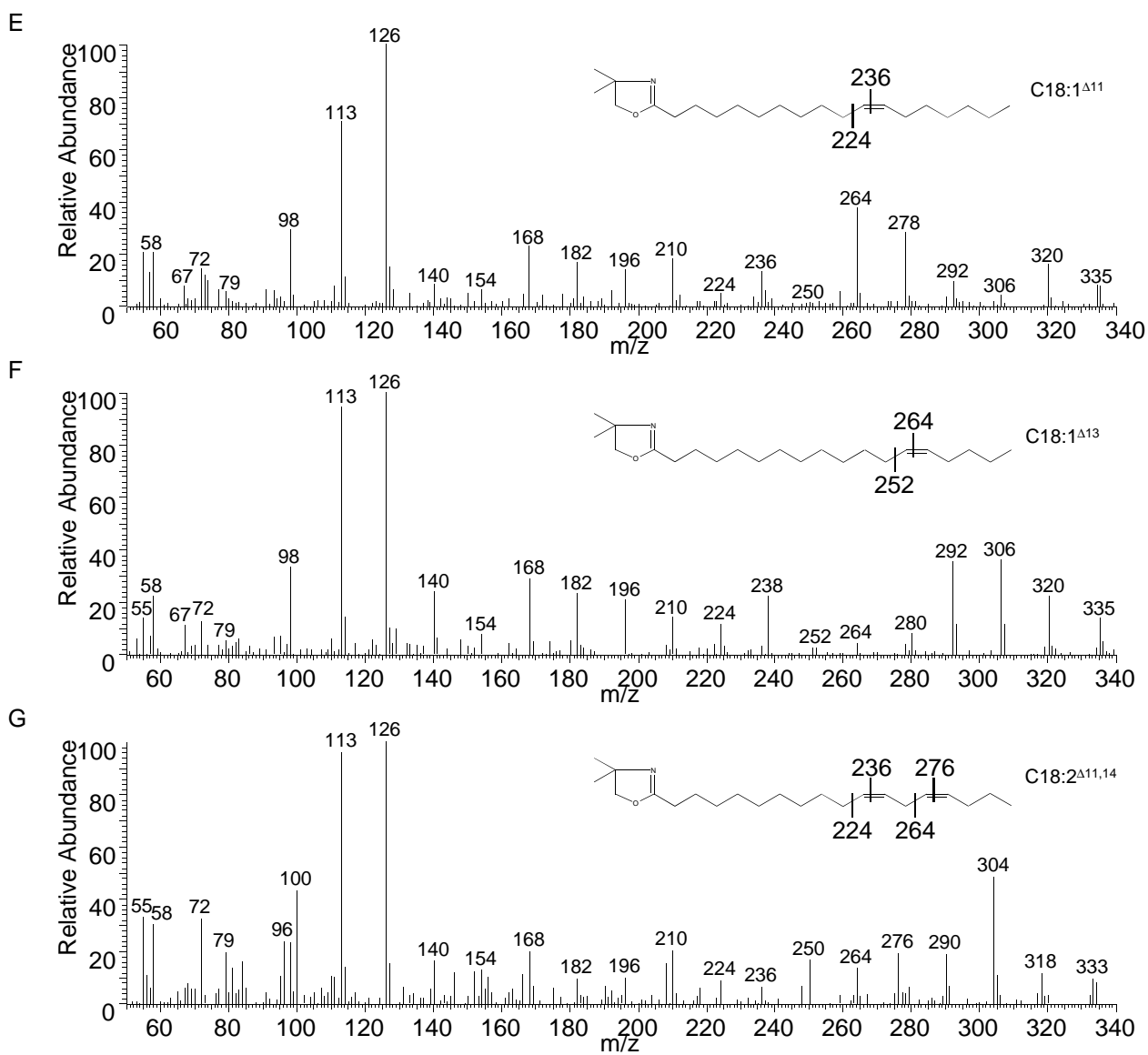


Fig. S3

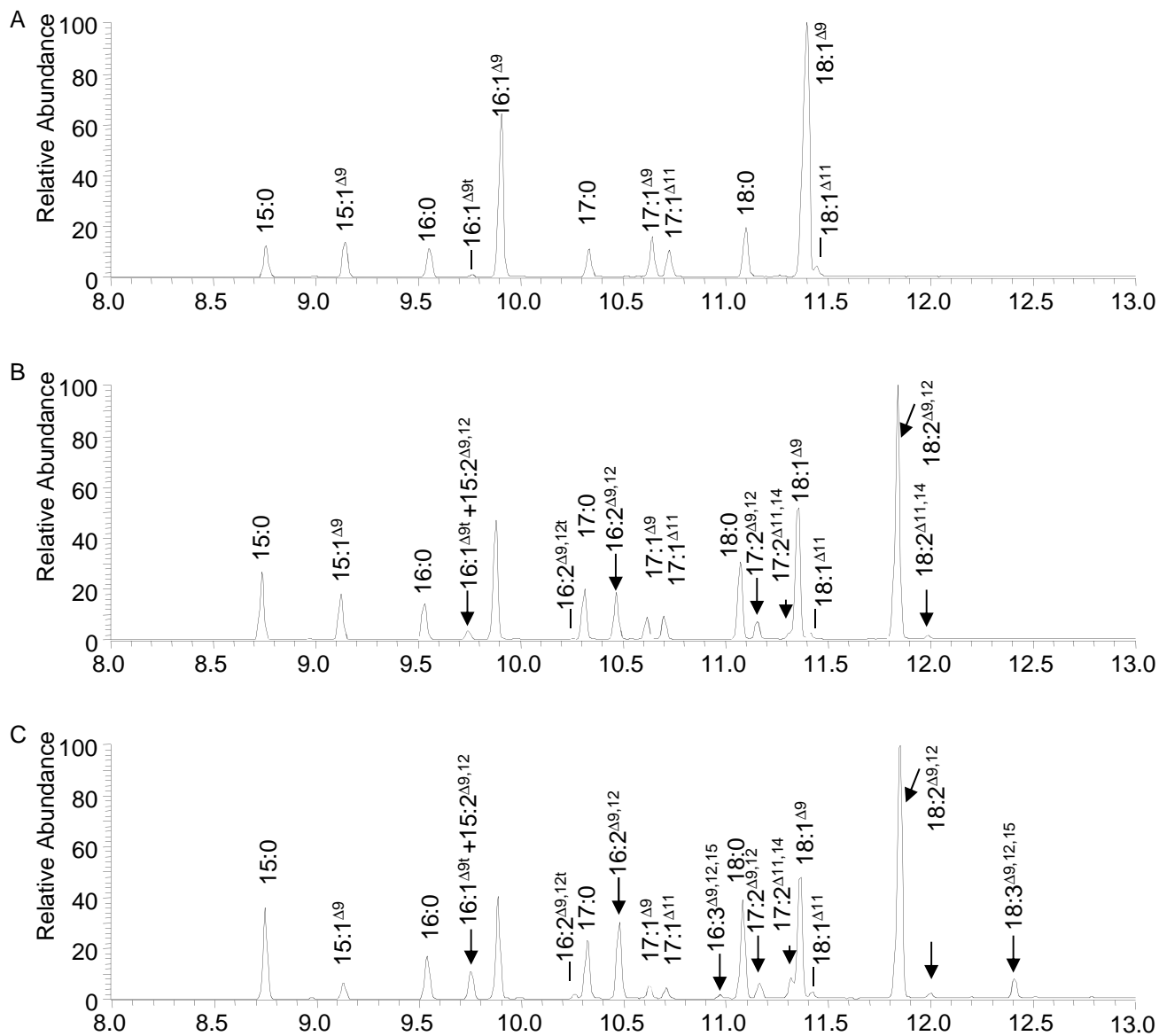


Fig. S3 continued

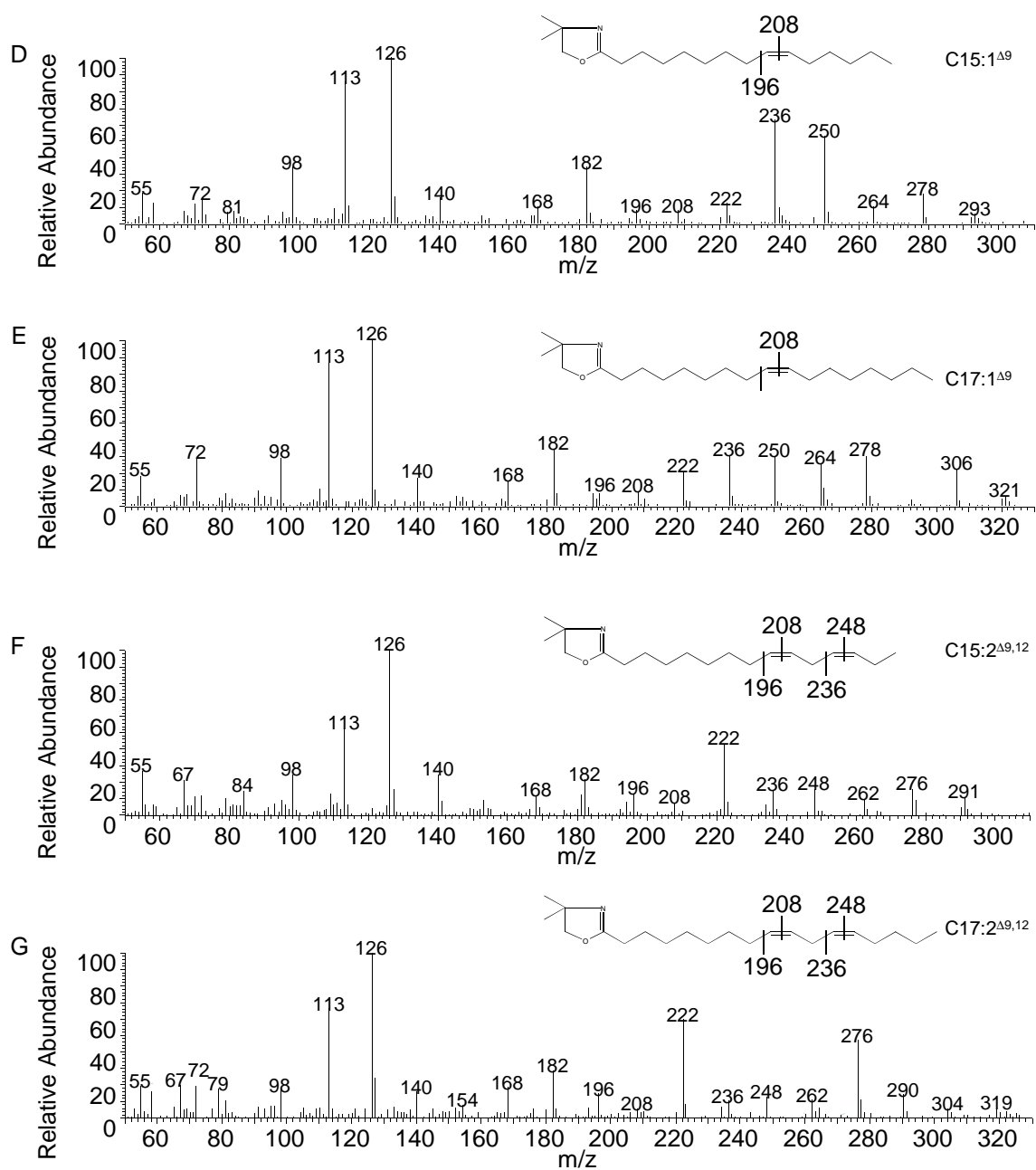


Fig. S4

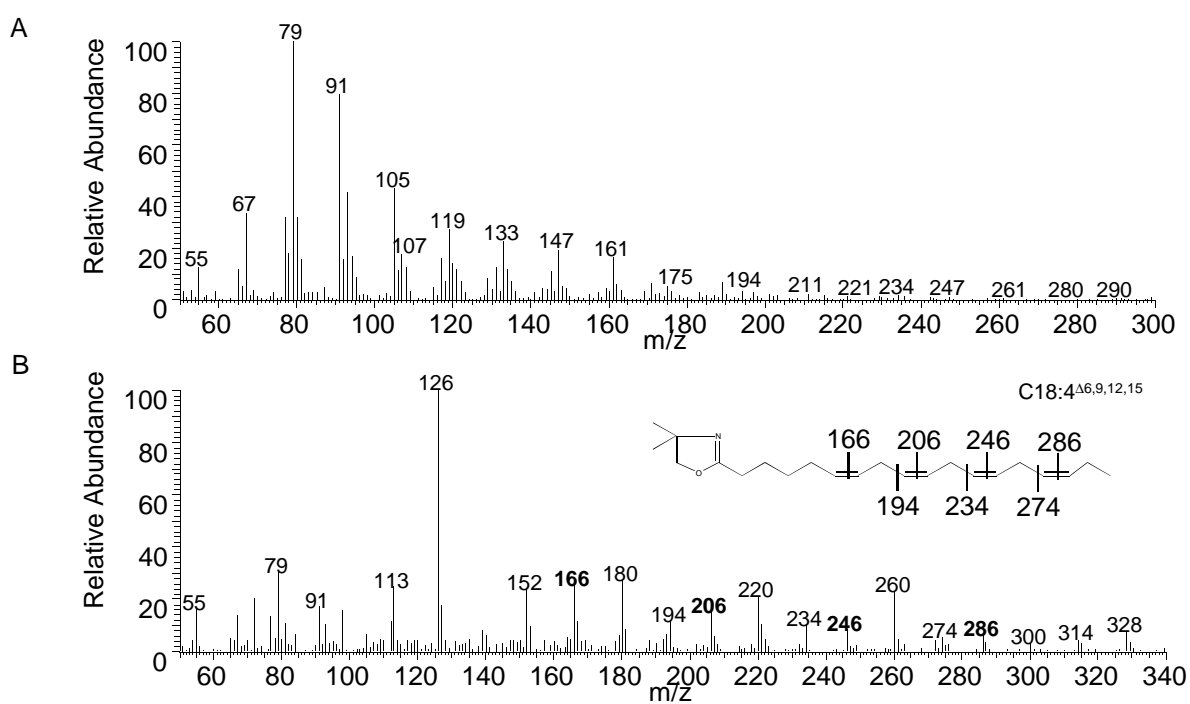


Fig. S5

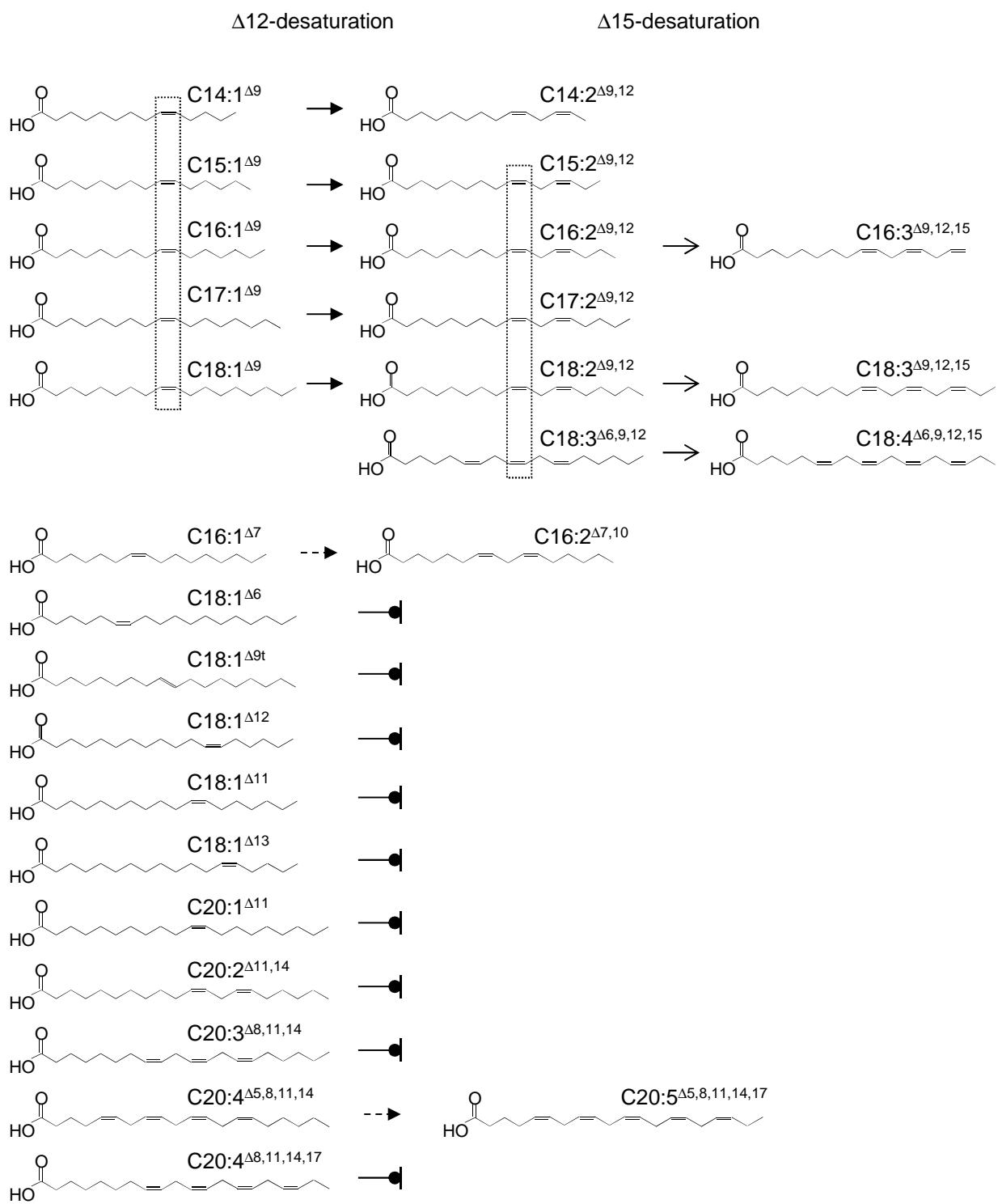


Fig. S6

	Box I	Box II	Box III	
AtFAD2	VIAHECGHH	KYSHRRHHSNTGSLERDEV	TDTHVAHHLFS-TMPHYNAMEA	Δ12
Ma Δ12	VLAHECGHQ	RISHSKHHKATGHMTKDQV	VHTHVAHHLFS-QMPFYHAEAA	
Ui Δ12	VLAHECGHQ	RISHSKHHKATGHMTKDQV	VHTHVAHHLFS-QMPFYHAEAA	
Cp Δ12	VIAHECGHQ	KFSHSAHHKATGHMERDMV	IETHVLHHYVS-SIPFYNADEA	
AtFAD3	VLGHDCGHG	RISHRTHHQNHGHVENDES	IGTHVIHHLFP-QIPHYHLVDA	Δ15
CeFAT-1	VVGHDCLHG	QKSHKLHHAFTNHIDKDHG	TDGHVAHFFN-KIPHYHLIEA	
CeFAT-2	CVGHDCGHG	QKSHRQHHQYTSHV EKDKG	TNGHVAHFFFTKIPHYHLEA	bi
Cp Δ12/15	IIAHECGHG	KFSHSAHHKGTGNMERDMA	VETHVLHHYVS-SIPFYNADEA	
Fm Δ12/15	ILGHECGHG	KYSHRRHHRFTGHMDLDMA	IEKHVVHHLFP-KIPFYKADEA	
Mg Δ12/15	IIAHECGHG	KFSHRRHNNFTGHMEKDMA	IGTHVAHHLFP-RIPFYKAEEA	
An Δ12/15	IIAHECGHG	KITHARHHRYTNNTERDTA	IDHHVVHHLFN-RIPFYHAEAA	
Ac Δ12/15	VLAHECGHG	KFSHAKHHHYTNHMTKDEP	VDTHVTHHIFS-YLPFYNAEEA	
Sb Δ12/15	VLGHDCGHG	RISHRTHHQNHGHVDRDES	IGTHVIHHLFP-QIPHYHLVEA	