

SUPPLEMENTARY DATA

Table S1. Formulations of oil-in-water emulsion made with SIO. All (%) corresponding to % weight/weight.

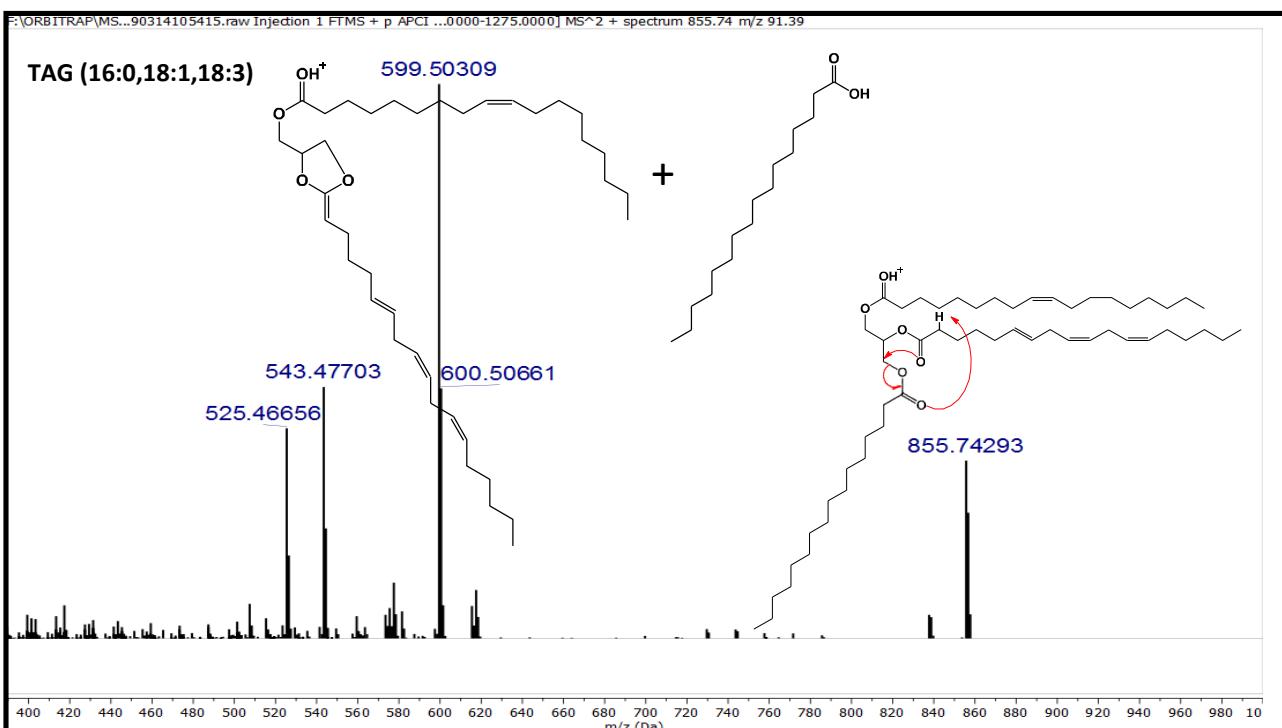
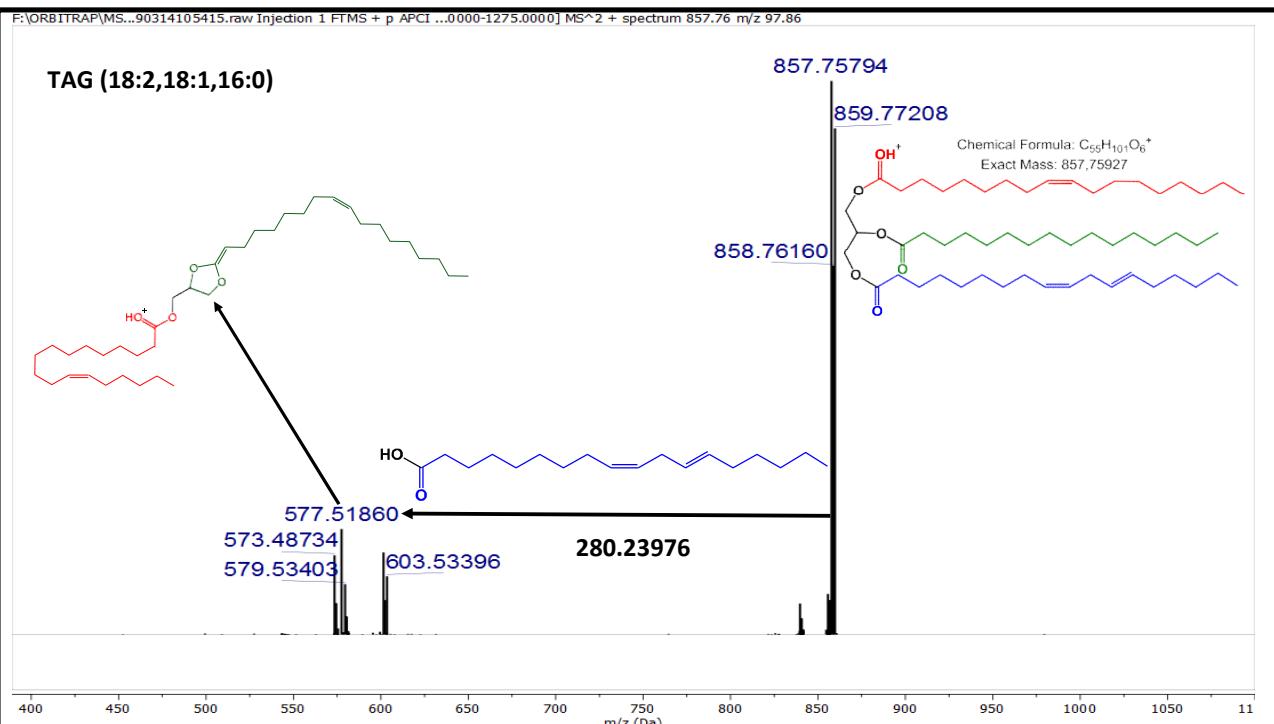
System	HLB ^B	<i>Sacha Inchi Oil</i> (%)	Preservatives		Surfactants Blend at 2%		% Water
			mp + pp (%)	Stearath 2 (%)	Stearath 20 (%)		
1	6	9.30	0.30 + 0.14	1.79	0.21	q.s.	
	8			1.40	0.60		
	10			1.02	0.98		
	12			0.63	1.37		
2	6	9.30	0.30 + 0.14	Glyceryl Stearate (%)	Polyoxy 40 Stearate (%)	q.s.	
	8			1.67	0.33		
	10			1.38	0.62		
	12			1.08	0.92		
3	6	9.30	0.3 + 0.14	0.79	1.21	q.s.	
	8			Sorbitan oleate (%)	Polysorbate 80 (%)		
	10			1.68	0.32		
	12			1.31	0.69		
	6			0.93	1.07		
	8			0.56	1.44		

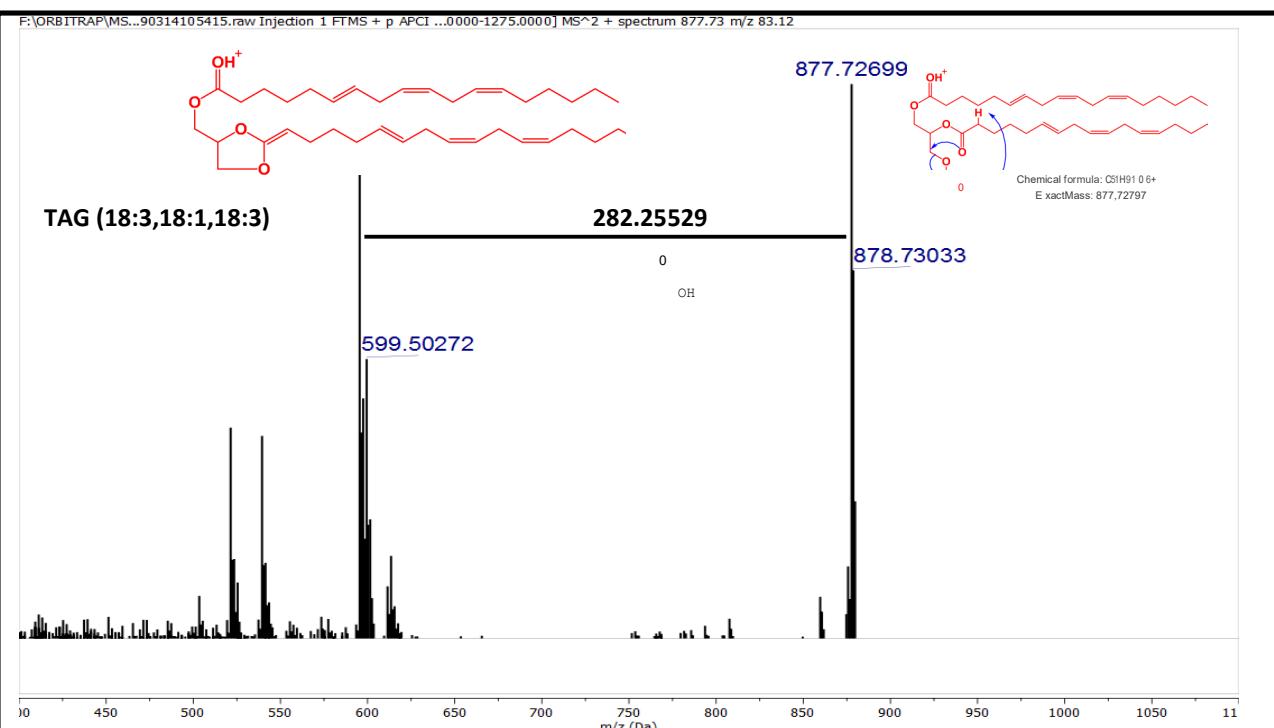
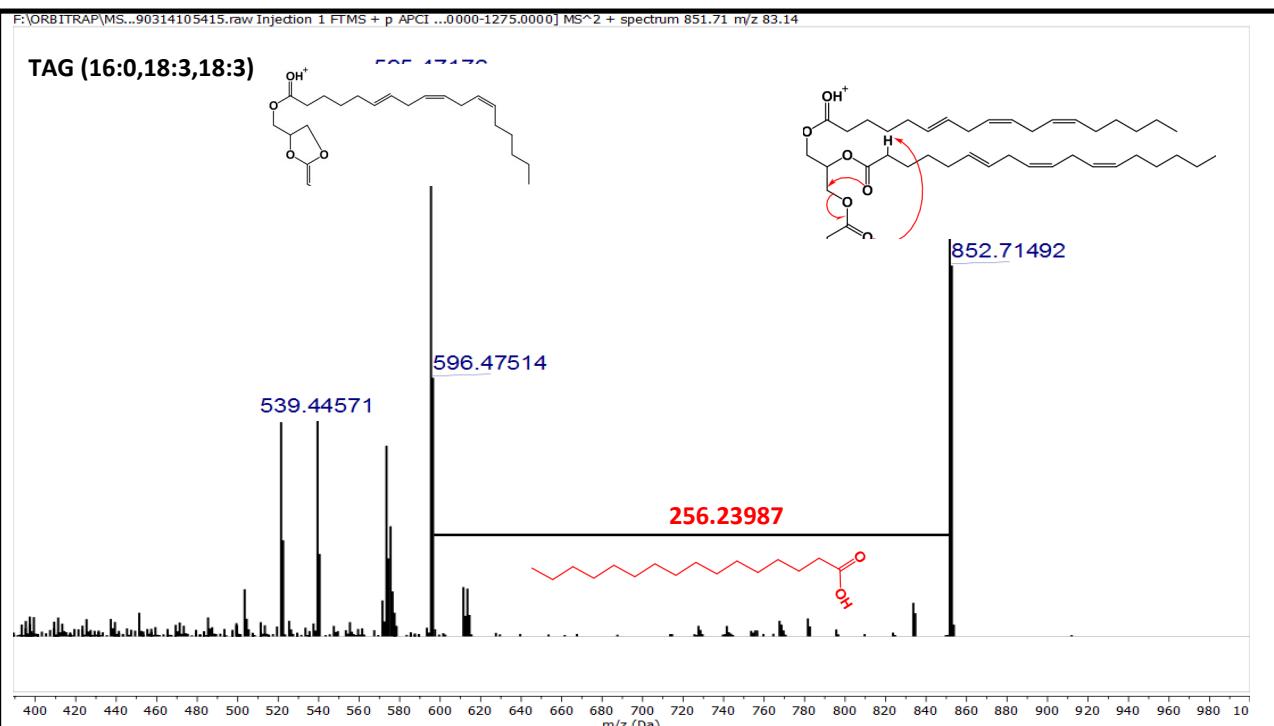
All % represent weight/weight, q.s. = quantity sufficient, mp =methylparaben, pp = propylparaben

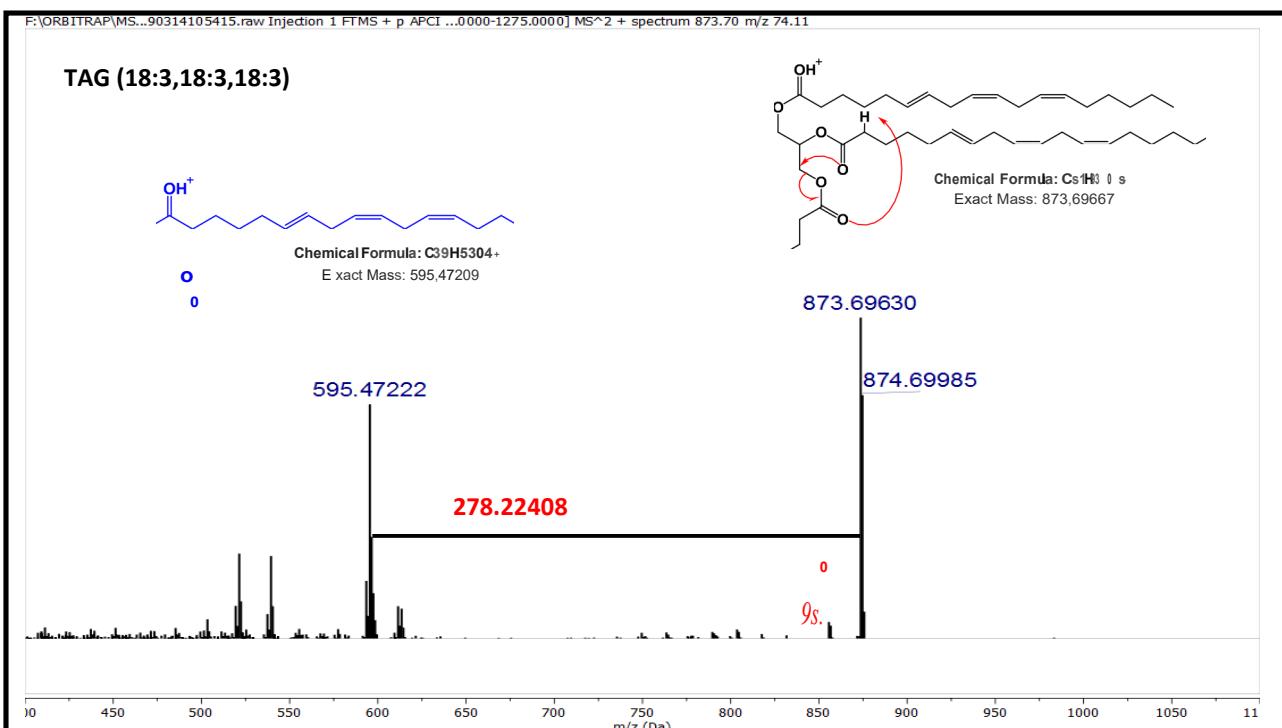
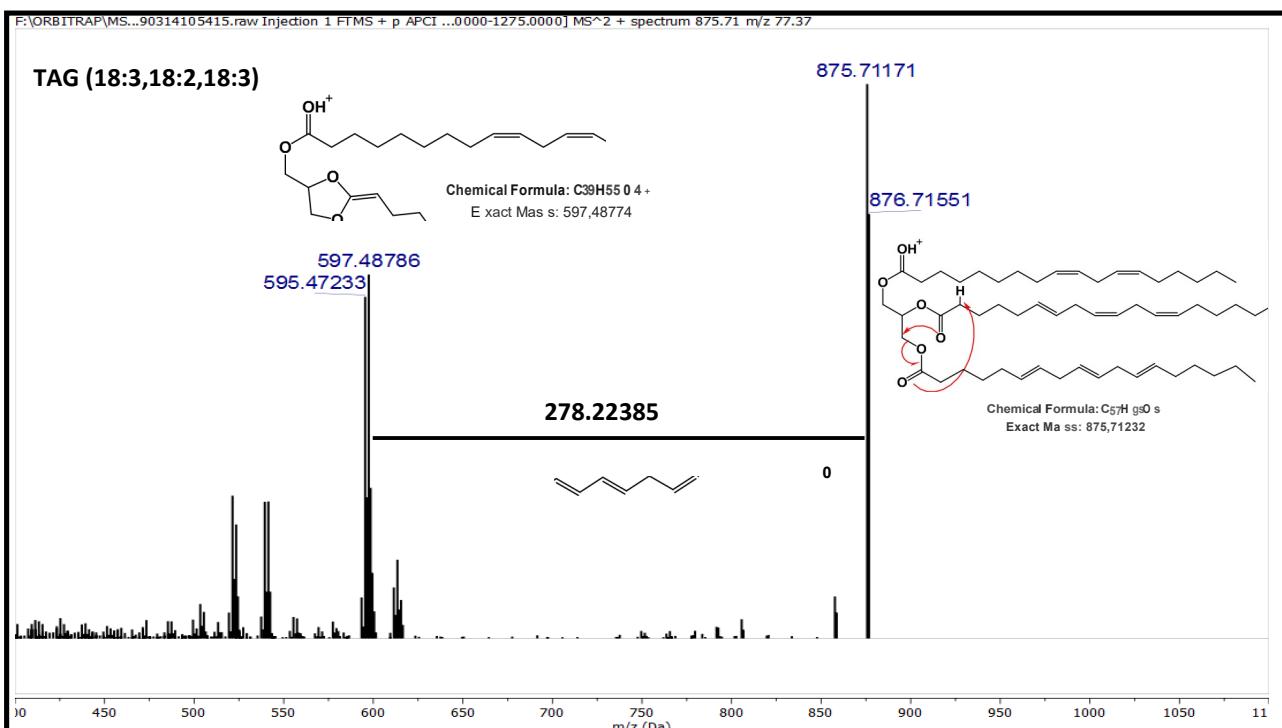
Table S2: Values of shear rate applied in the emulsion and nano-emulsion systems in viscometric assay.

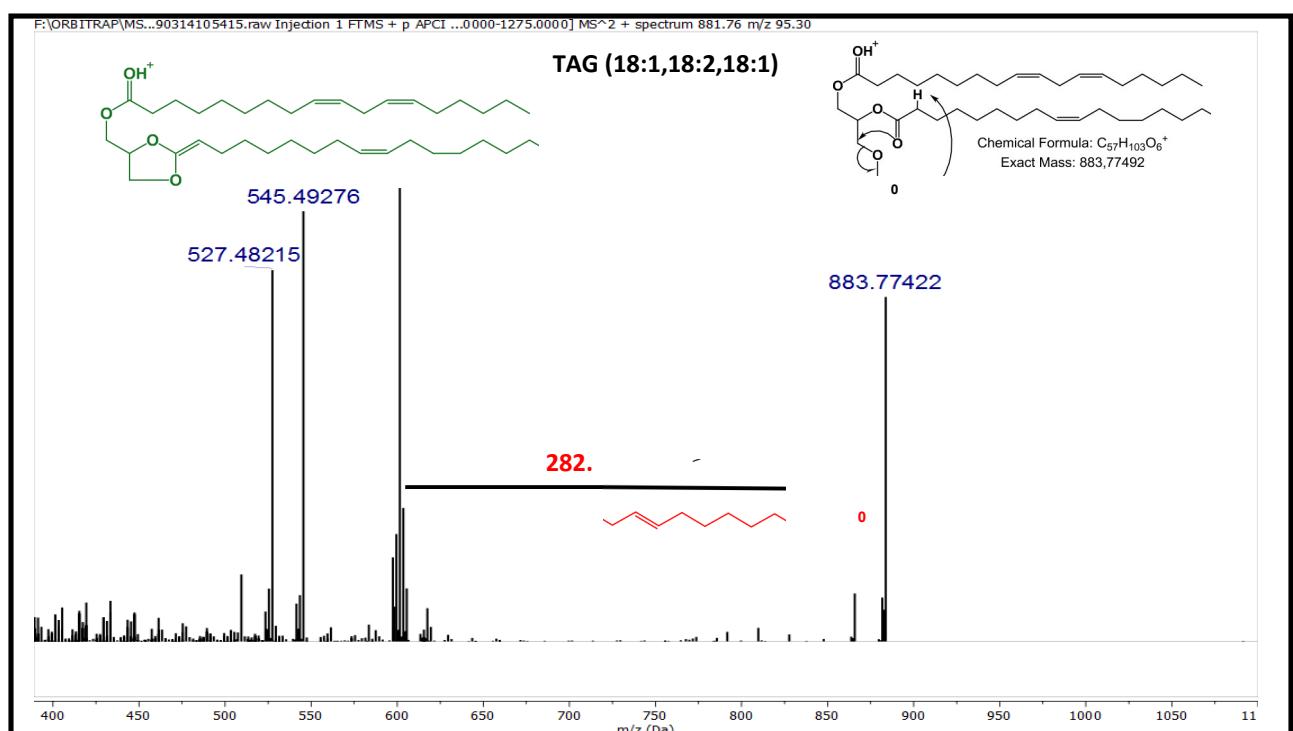
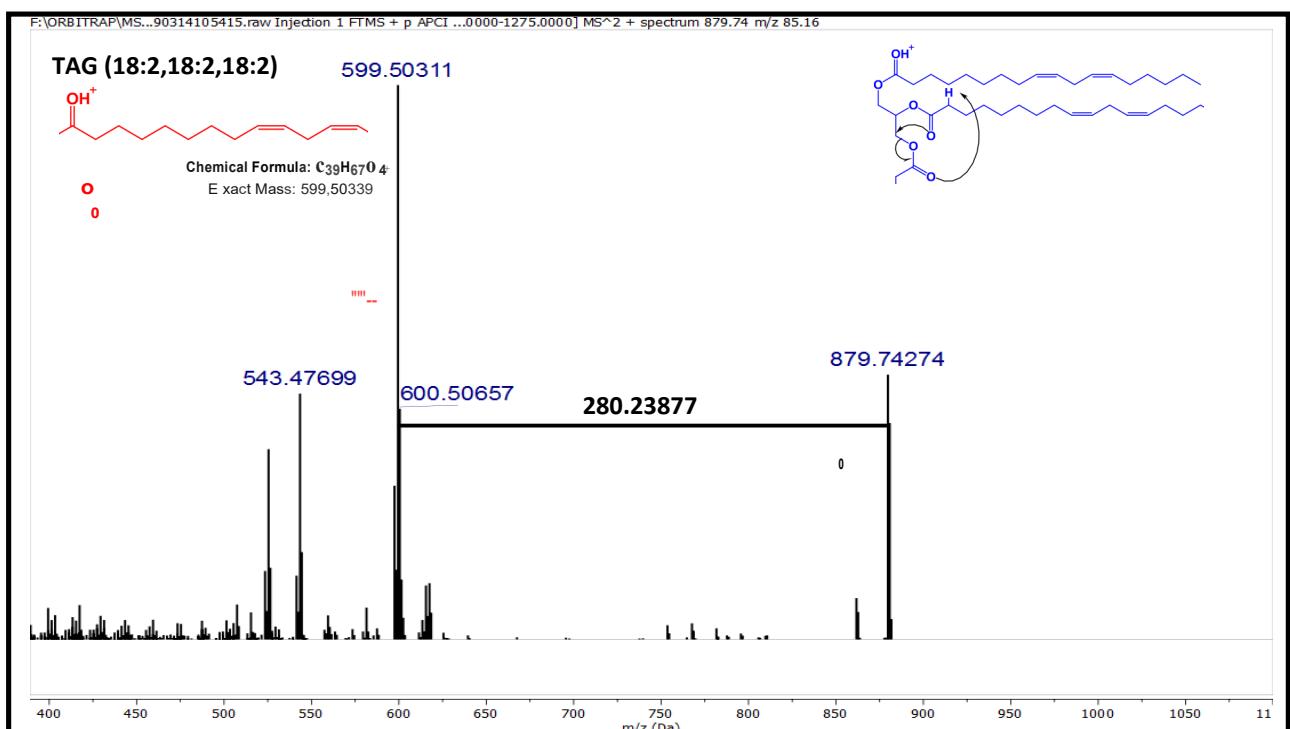
System	HLB ^B	Values of Shear Rate (s ⁻¹) Applied to the Emulsion Made up with <i>Sacha Inchi Oil</i>				
		t=0	t=1 st week	t=2 nd week	t=3 rd week	t= 4 th week
1	6	400	--	--	--	--
	8	400	312	312	312	--
	10	400	480	480	480	480
	12	480	--	--	--	--
2	t=0	t=2 nd week		t=2 nd week	t=2 nd week	t= 4 th week
	6	480	--	--	--	--
	8	480	480	480	480	480
	10	480	--	--	--	--
3	t=0	t=2 nd week		t=2 nd week	t=2 nd week	t= 4 th week
	6	480	--	--	--	--
	8	480	5750	5750	5750	4600
	10	480	--	--	--	--
	12	480	--	--	--	--

-- Correspond to emulsions with phase separation, where the viscosity value was not determined



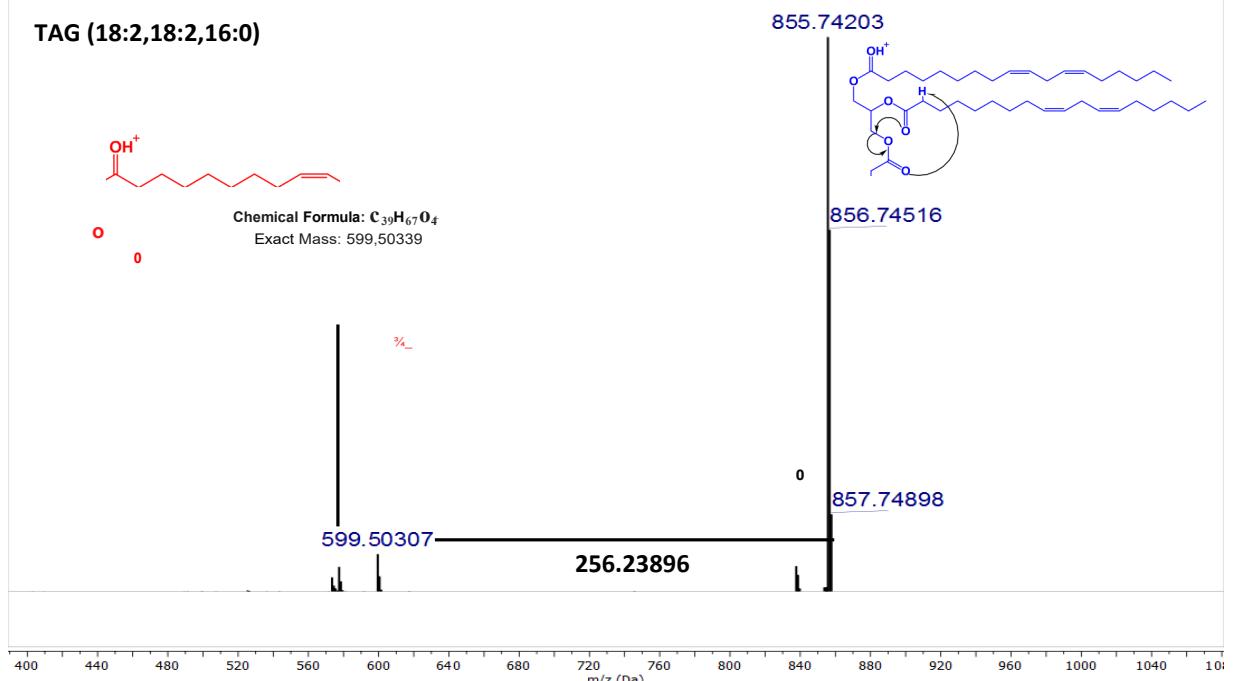






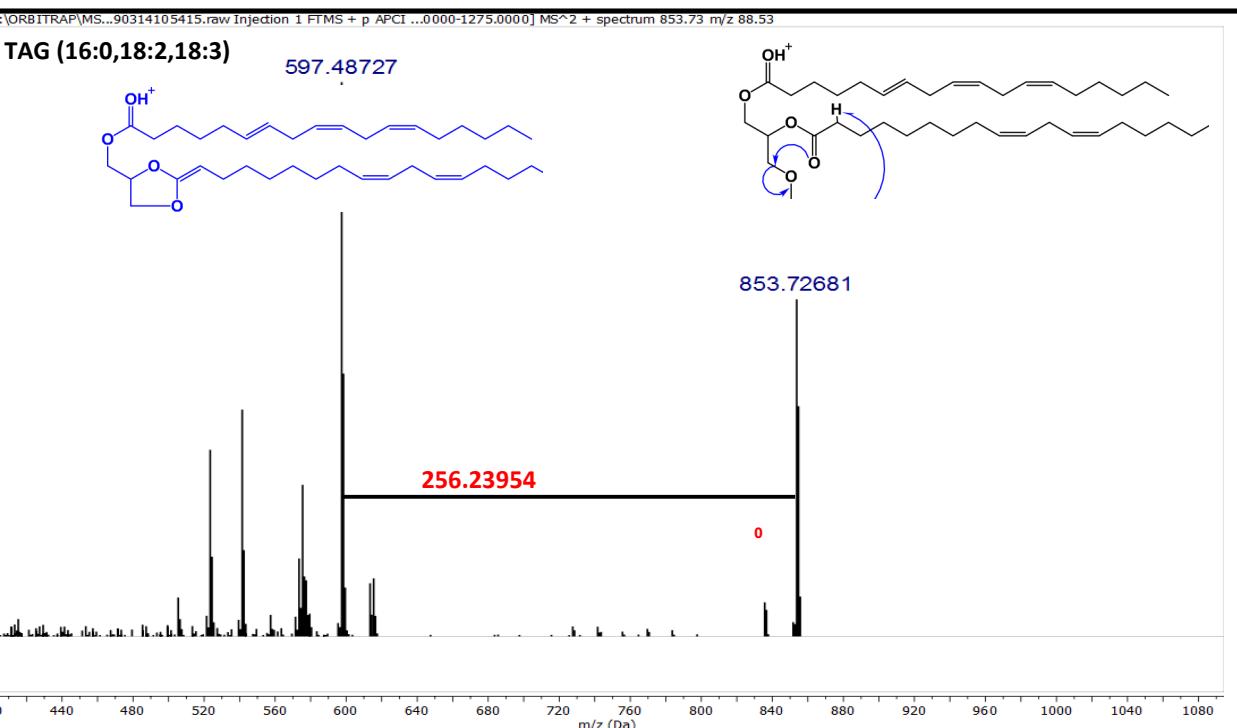
F:\ORBITRAP\MS...90314105415.raw Injection 1 FTMS + p APCI ...0000-1275.0000] MS² + spectrum 855.74 m/z 92.99

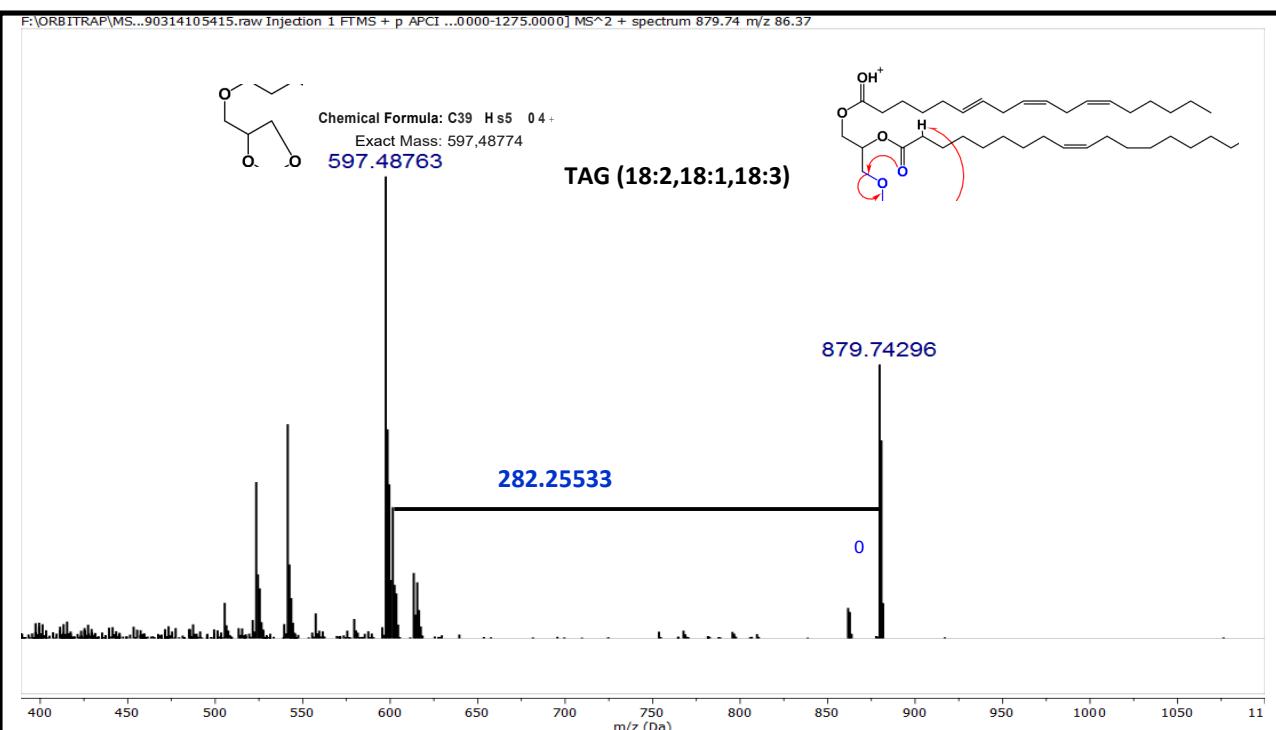
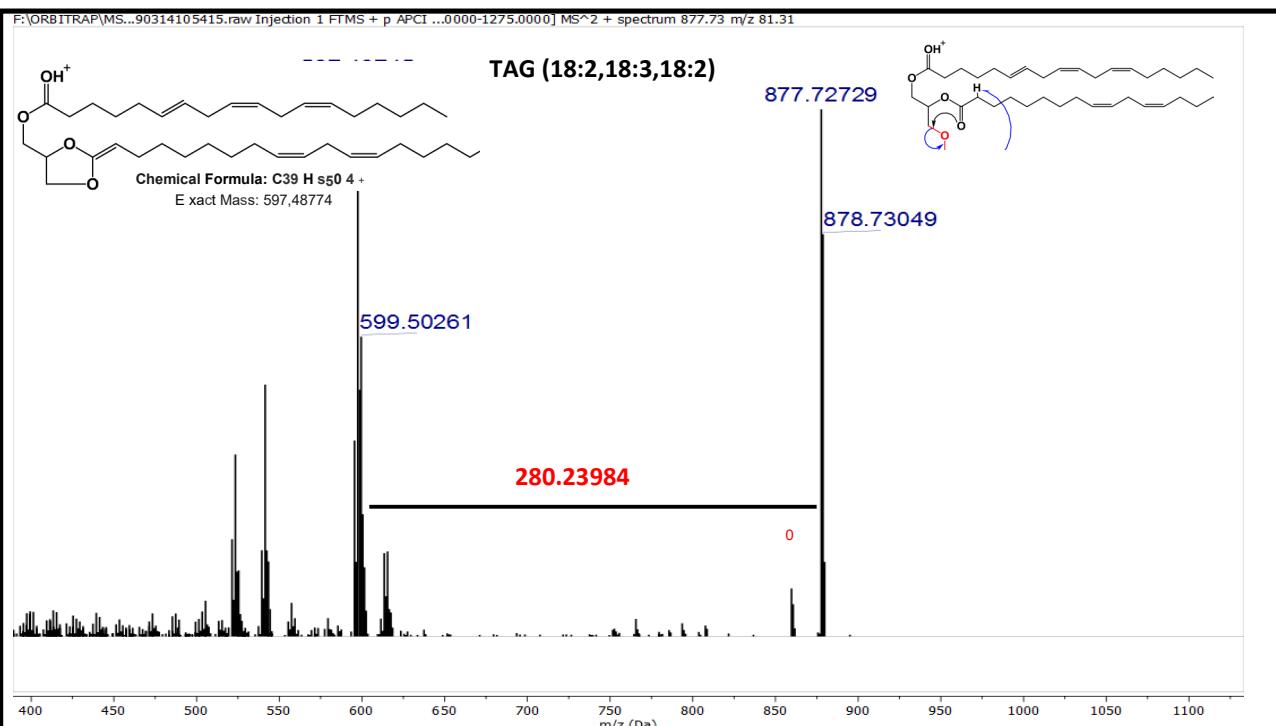
TAG (18:2,18:2,16:0)



F:\ORBITRAP\MS...90314105415.raw Injection 1 FTMS + p APCI ...0000-1275.0000] MS² + spectrum 853.73 m/z 88.53

TAG (16:0,18:2,18:3)





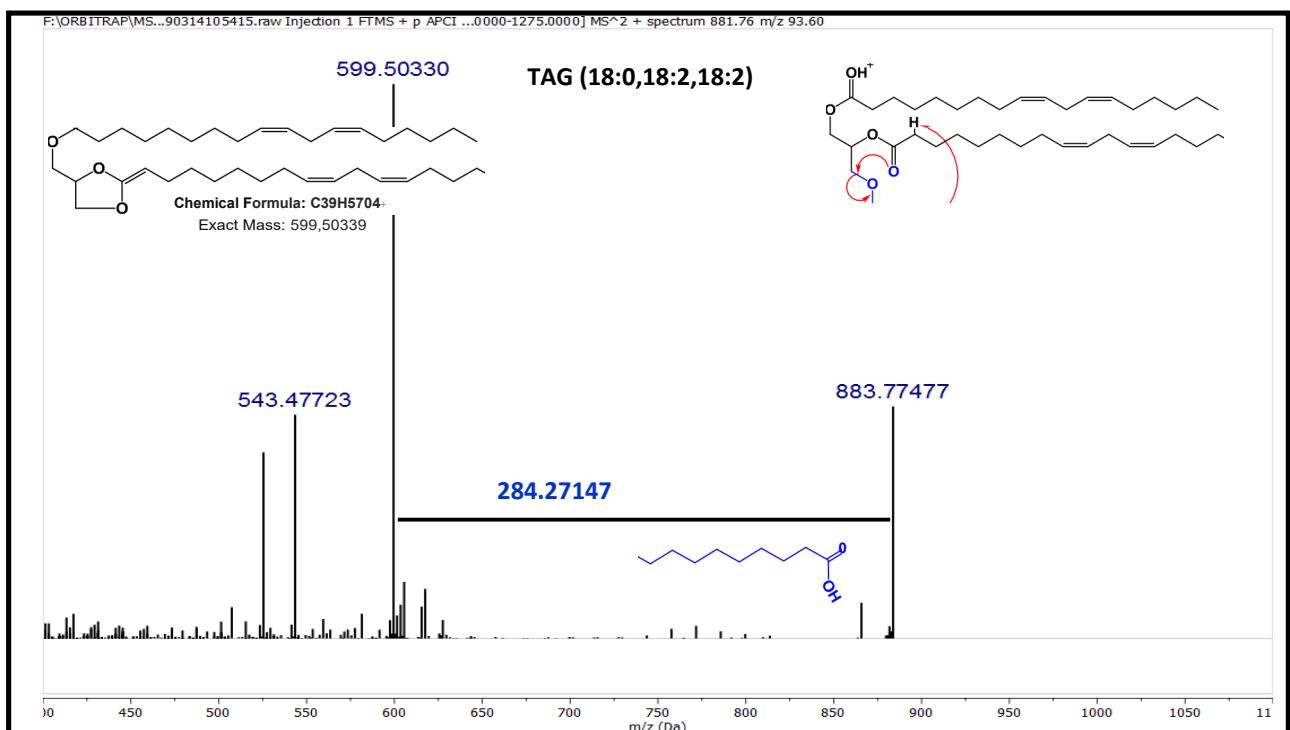


Figure S1. High-resolution tandem mass spectra of SIO glycerolipids.