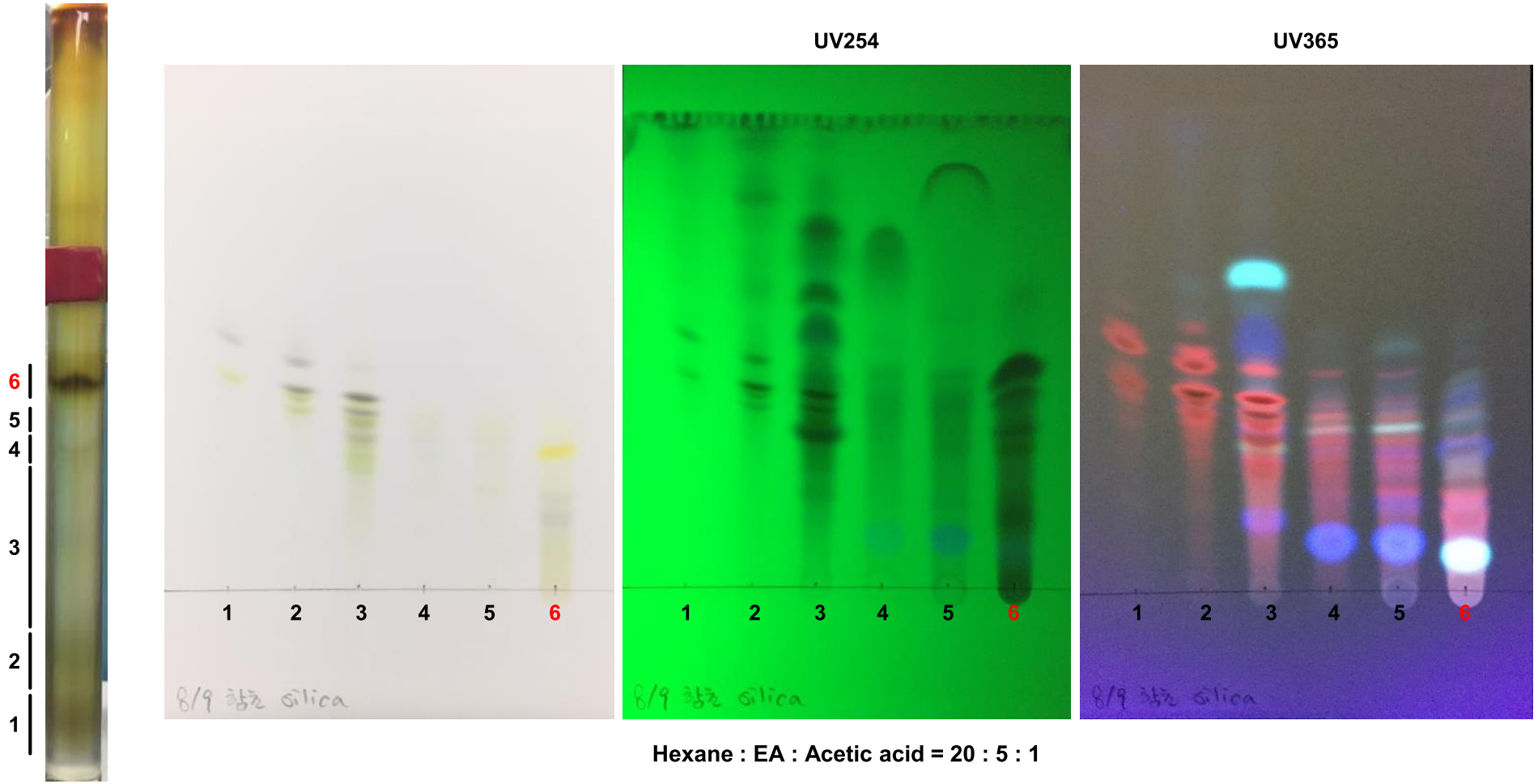
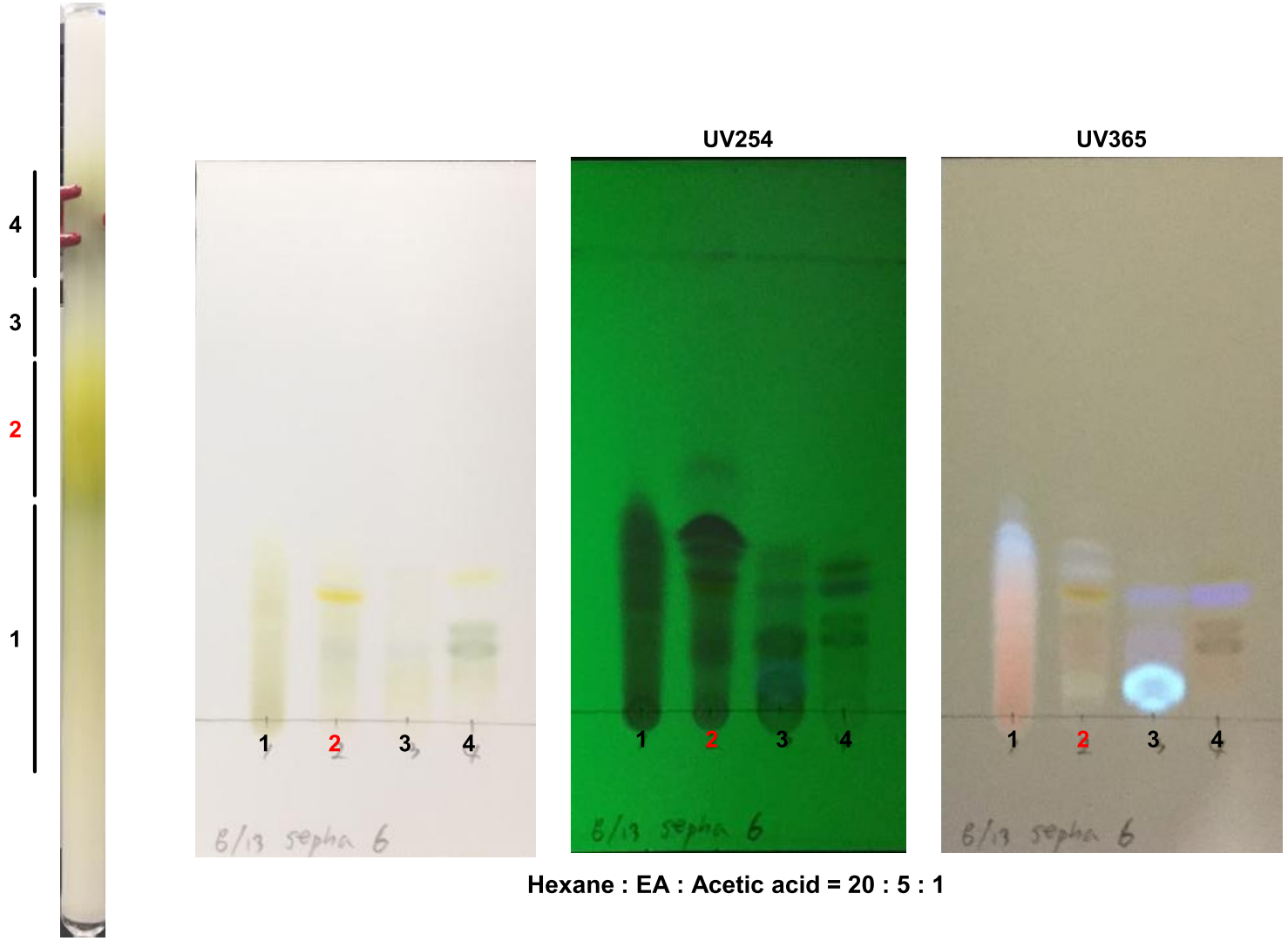
Table S1. Specific Real-time RT-qPCR primer sequences containing *iNOS, IL-1β, TNF-α,* and *β-actin* genes

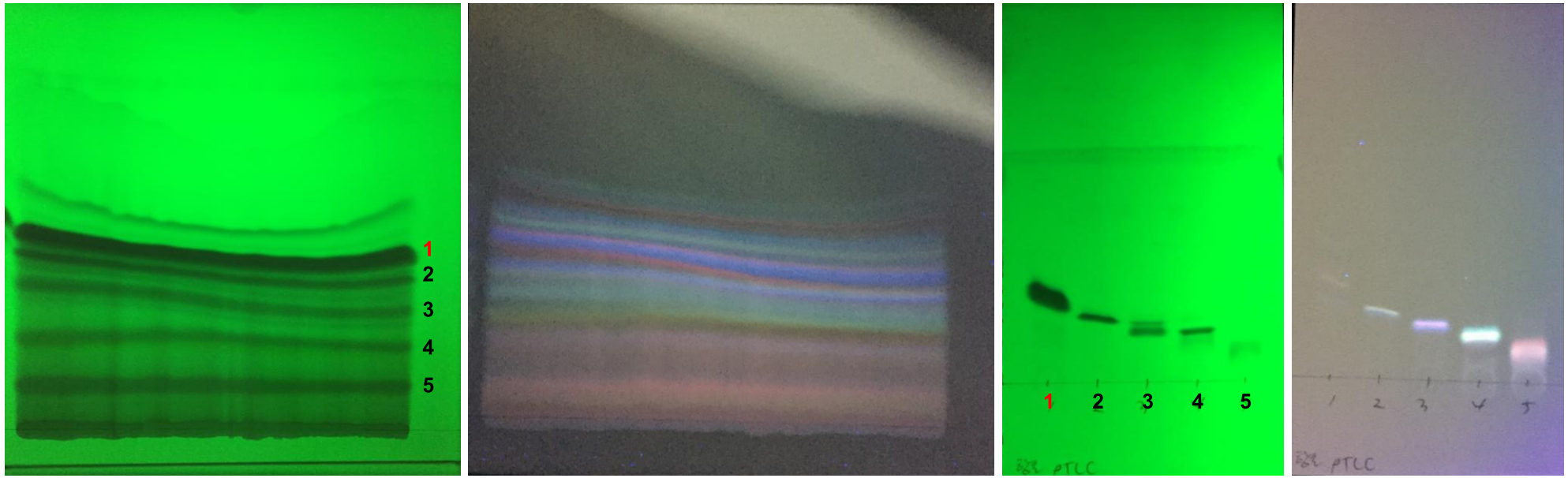
Genes	Primers
iNOS	· Forward: 5′-CGAGACGGATAGGCAGAGATTG-3′ · Reverse: 5′-CTCTTCAAGCACCTCCAGGAA-3′
IL-1β	· Forward: 5′-GGGCCTCAAAGGAAAGAATC-3′ · Reverse: 5′-TACCAGTTGGGGAACTCTGC-3′
TNF-α	· Forward: 5′-CAGGCGGTGCCTATGTCTC-3′ · Reverse: 5′-CGATCACCCCGAAGTTCAGTAG-3′
β-actin	· Forward: 5′-CCACAGCTGAGAGGAAATC-3′ · Reverse: 5′-AAGGAAGGCTGGAAAAGAGC-3′



Supplementary Figure S1. Purification procedure of antioxidant from *Salicornia herbacea* L. extracts using SiO2 gel chromatography eluted with $CHCl_3$: MeOH (30:1). Active fraction: #6.



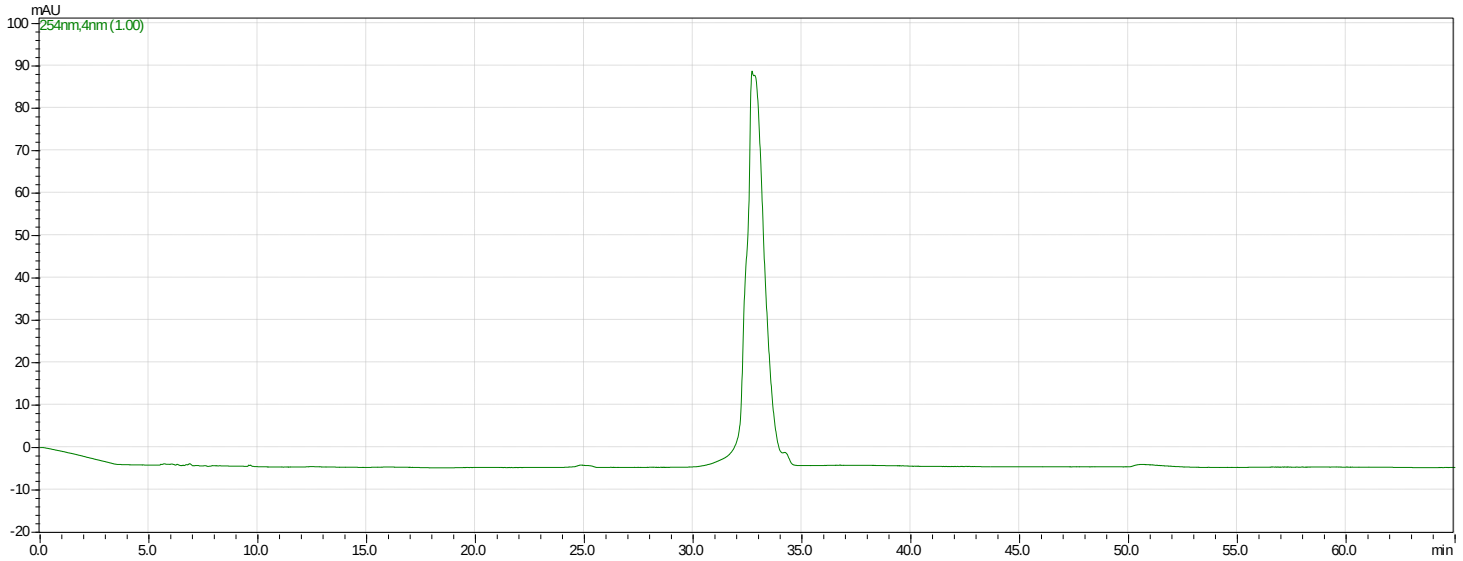
Supplementary Figure S2. Purification procedure of antioxidant from *Salicornia herbacea* L. extracts using sephadex LH-20 gel chromatography eluted with MeOH. Active fraction: #2.



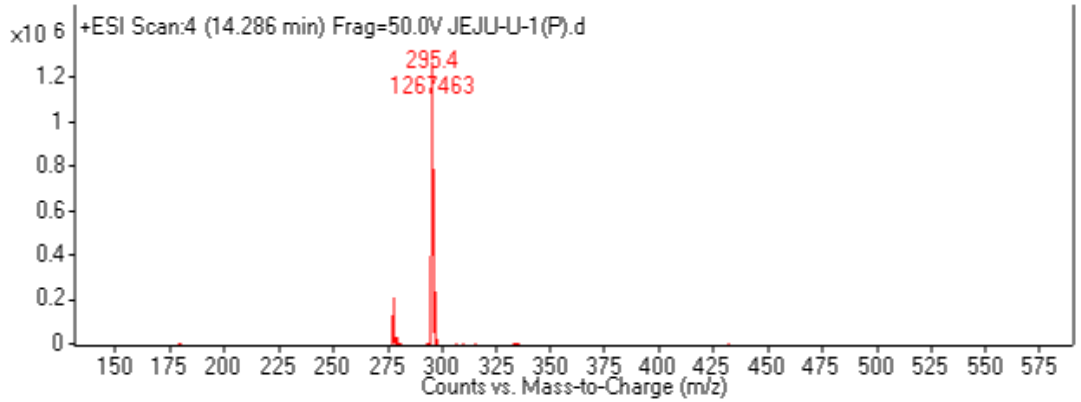
Hexane : EA : Acetic acid = 15 : 5 : 1

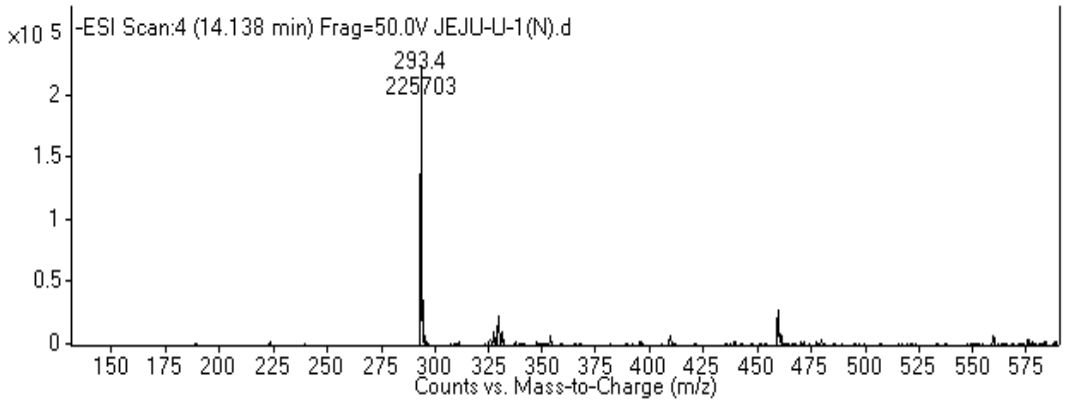
Hexane : EA : Acetic acid = 20 : 5 : 1

Supplementary Figure S3. Purification procedure of antioxidant from the *Salicornia herbacea* L. extracts using preparative thin layer chromatography with $CHCl_3$:MeOH (20:1). Active fraction: #1.



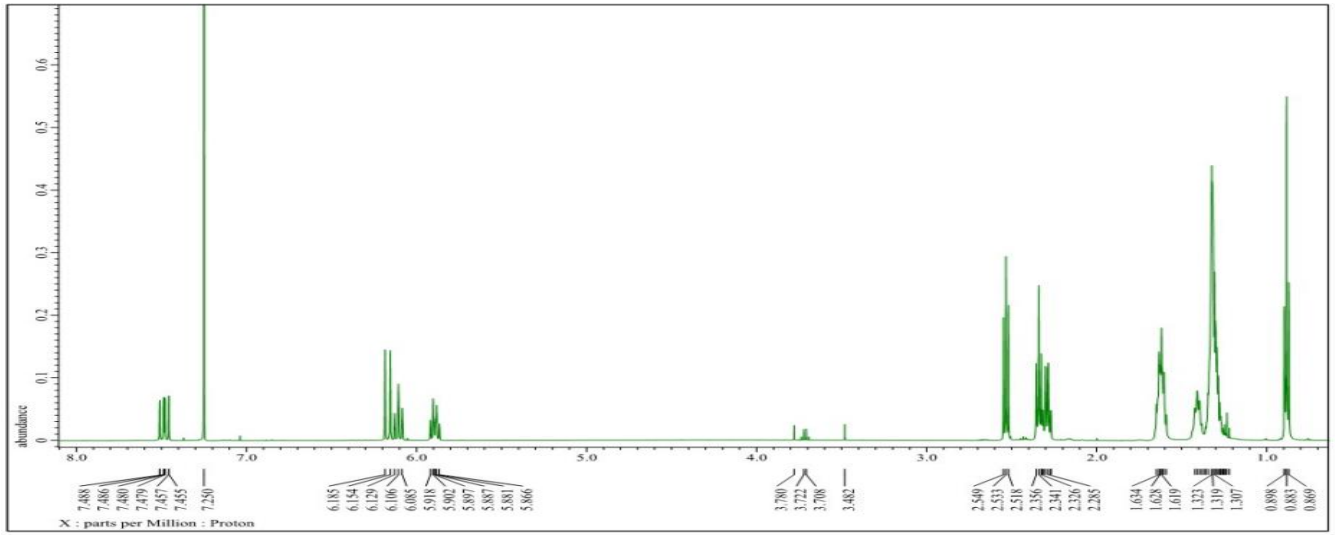
Supplementary Figure S4. Purification procedure of antioxidant from from the *Salicornia herbacea* L. extracts using Preparatory HPLC with acetonitrile.



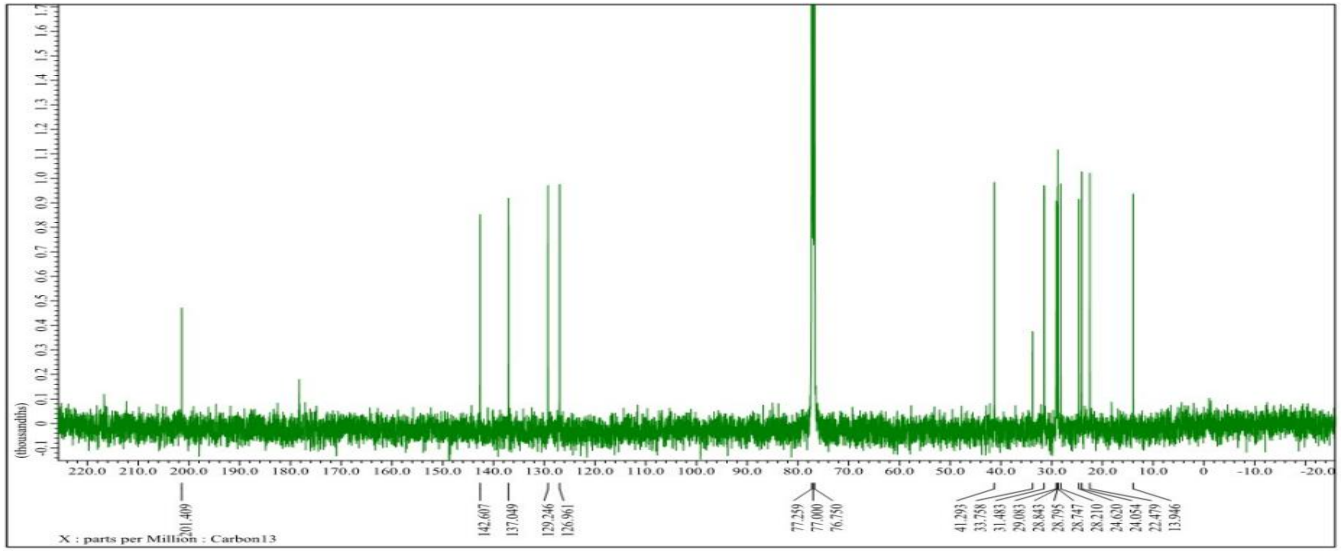


Supplementary Figure S5. ESI-mass spectrometry of the purified sample.

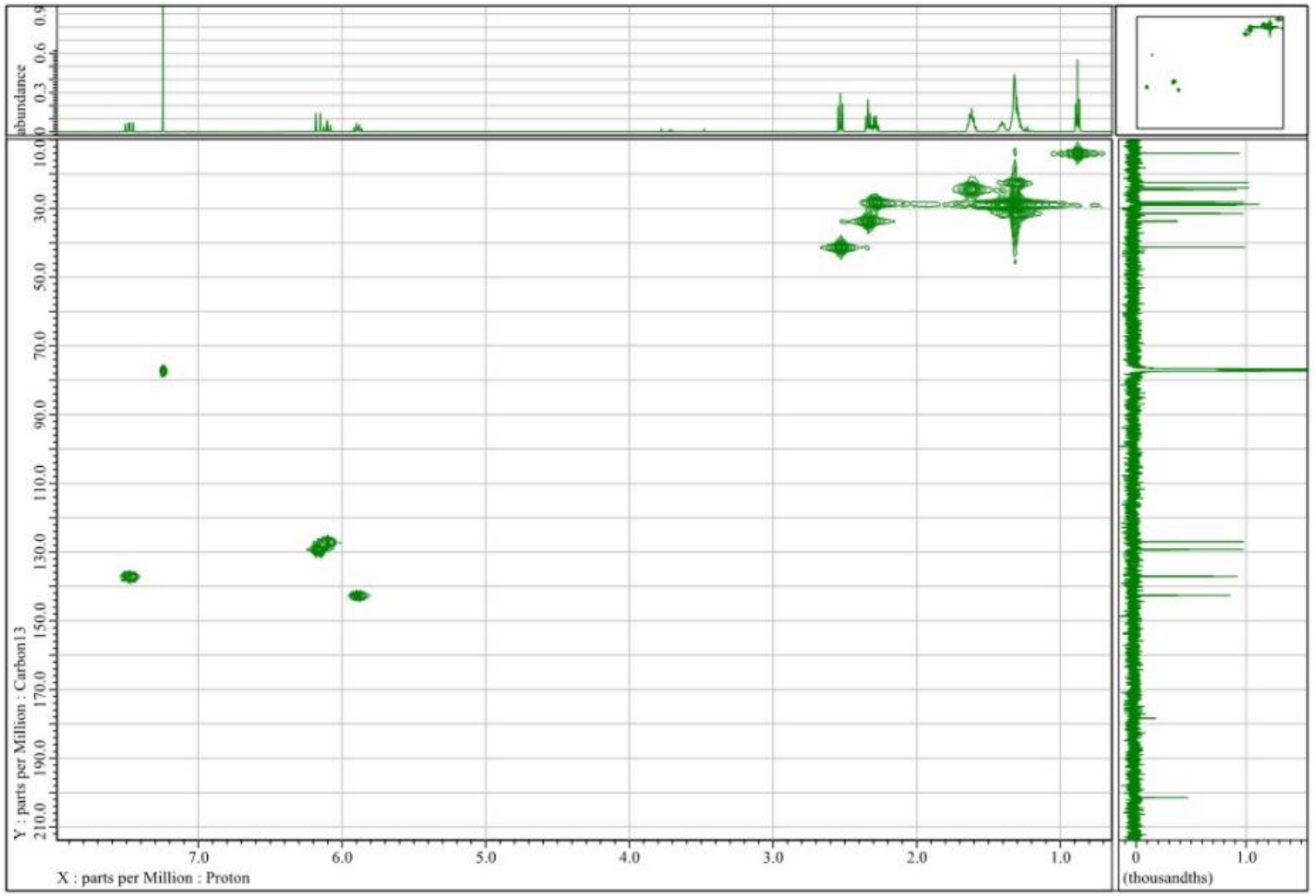
^{1}H-NMR



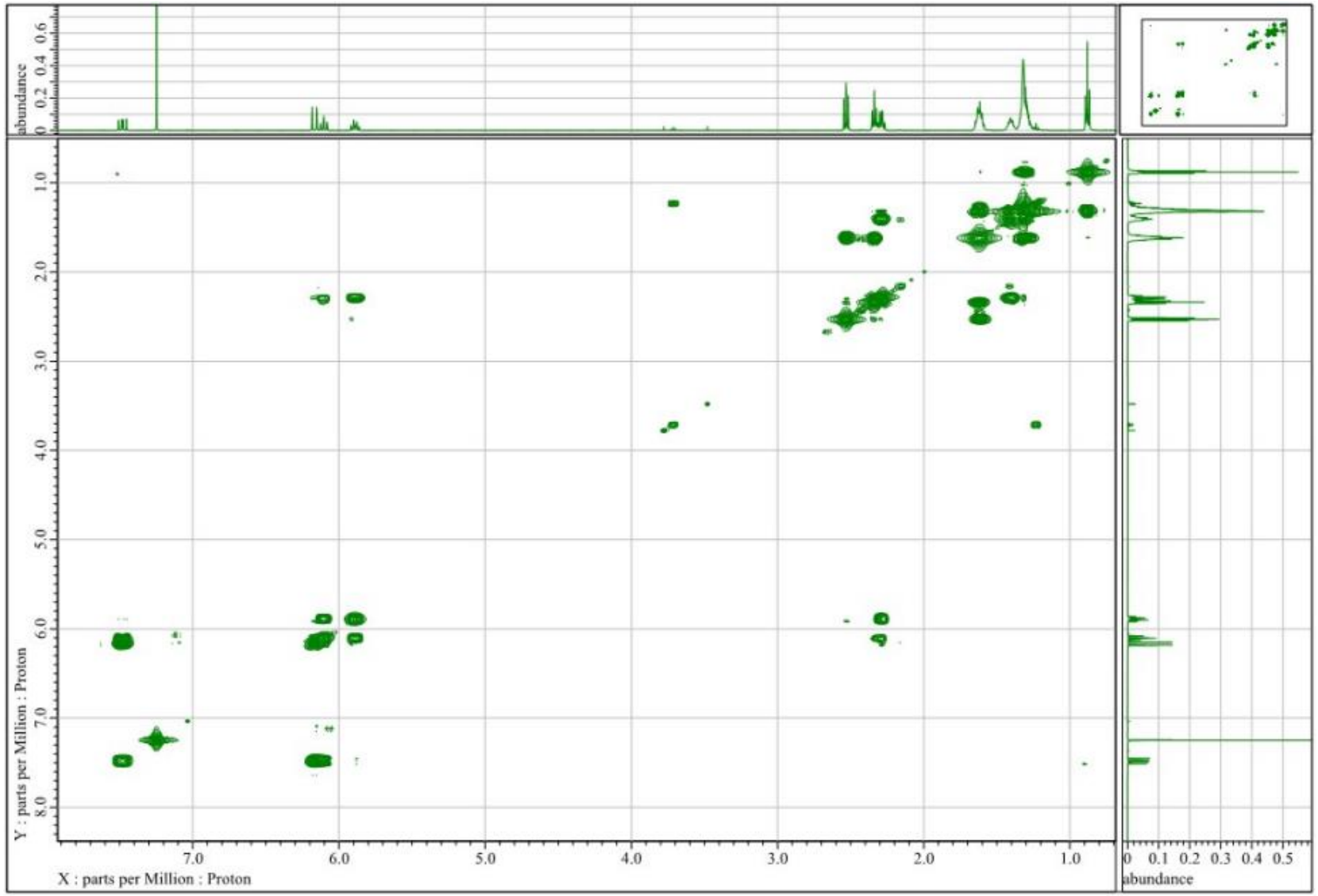
^{13}C-NMR



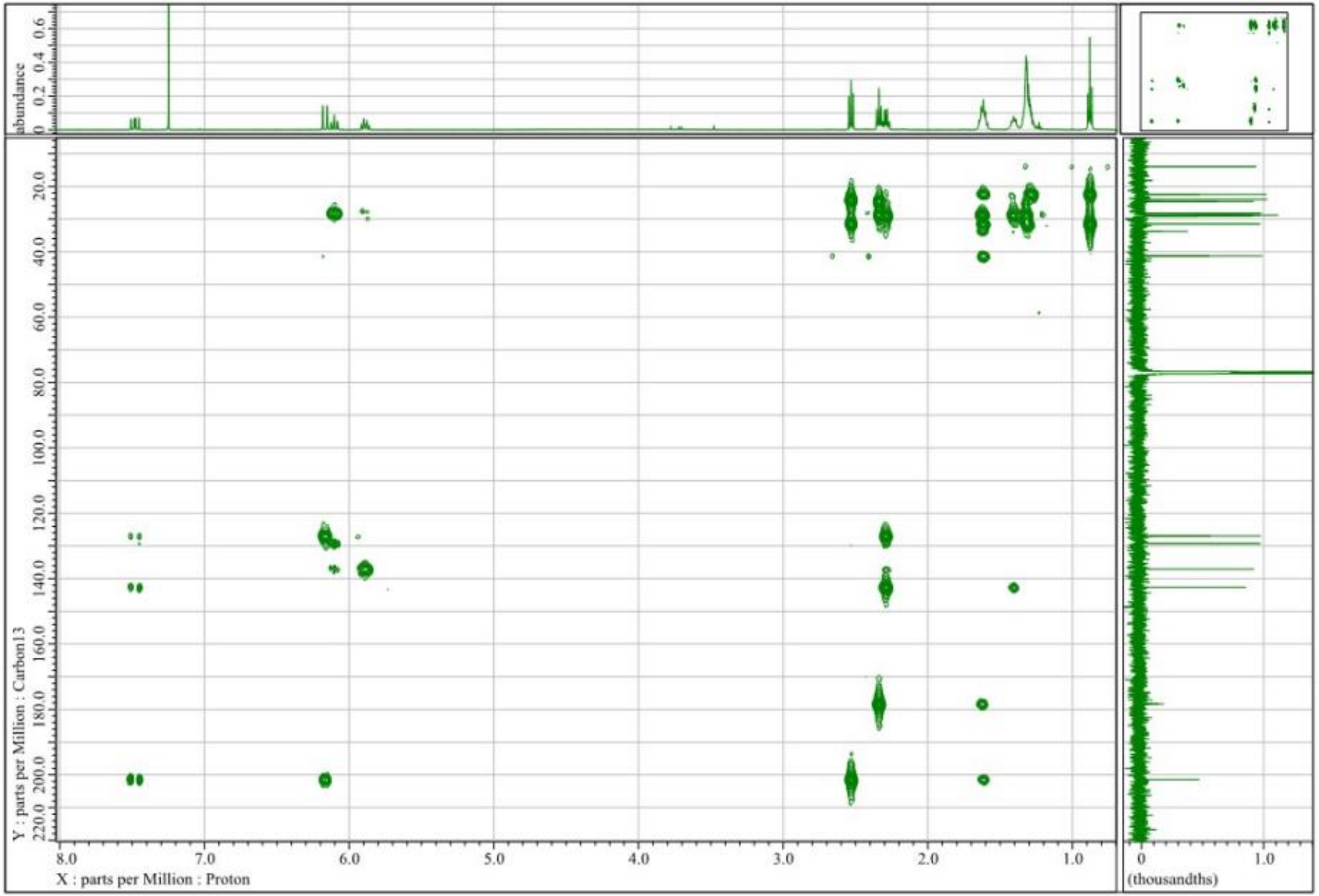
Supplementary Figure S6. ^{1}H NMR and ^{13}C NMR spectra of the purified sample.



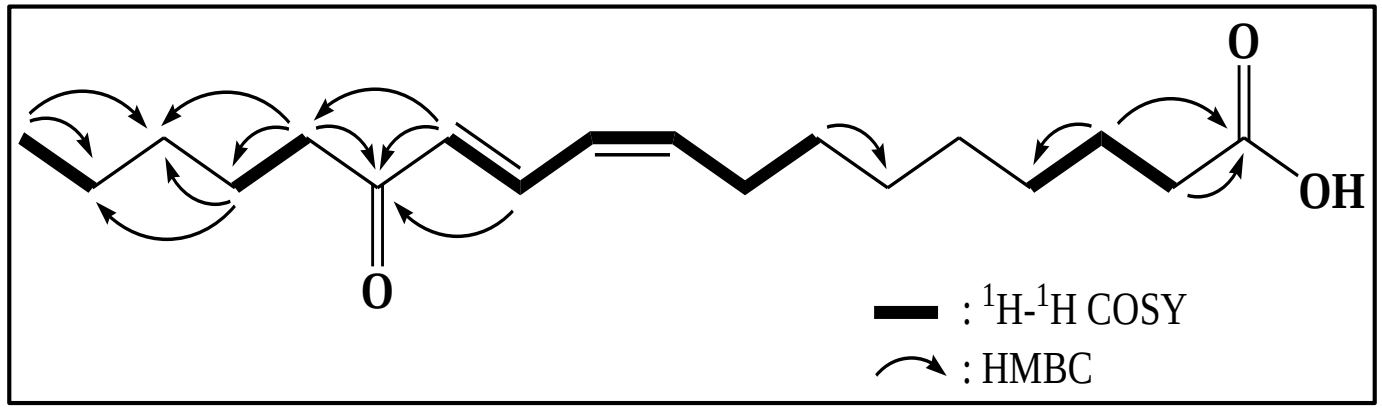
Supplementary Figure S7. HMQC spectrum of the purified sample.



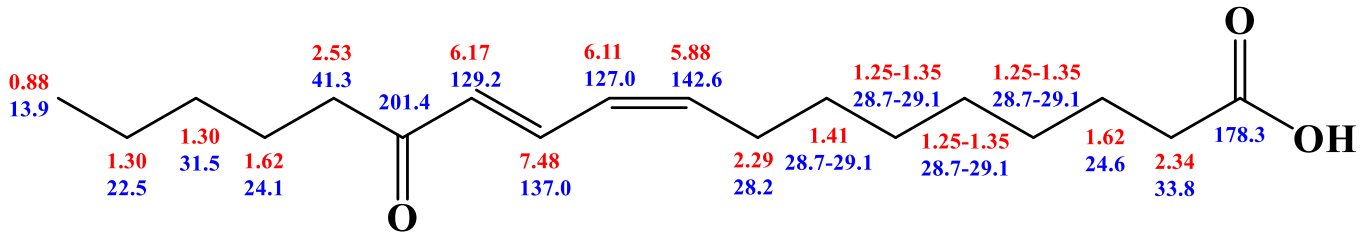
Supplementary Figure S8. ^{1}H-^{1}H COSY spectrum of the purified sample.



Supplementary Figure S9. HMBC spectrum of the purified sample.



HMBC correlations



Supplementary Figure S10. **HMBC correlations and ^{1}H (red), ^{13}C (blue) peak assignments of the purified sample.**