Neuropharmacological activity of the acetonic extract of *Malpighia mexicana* A. Juss. and its phytochemical profile

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UPLC, Gas Chromatography and Mass Spectrometry Data

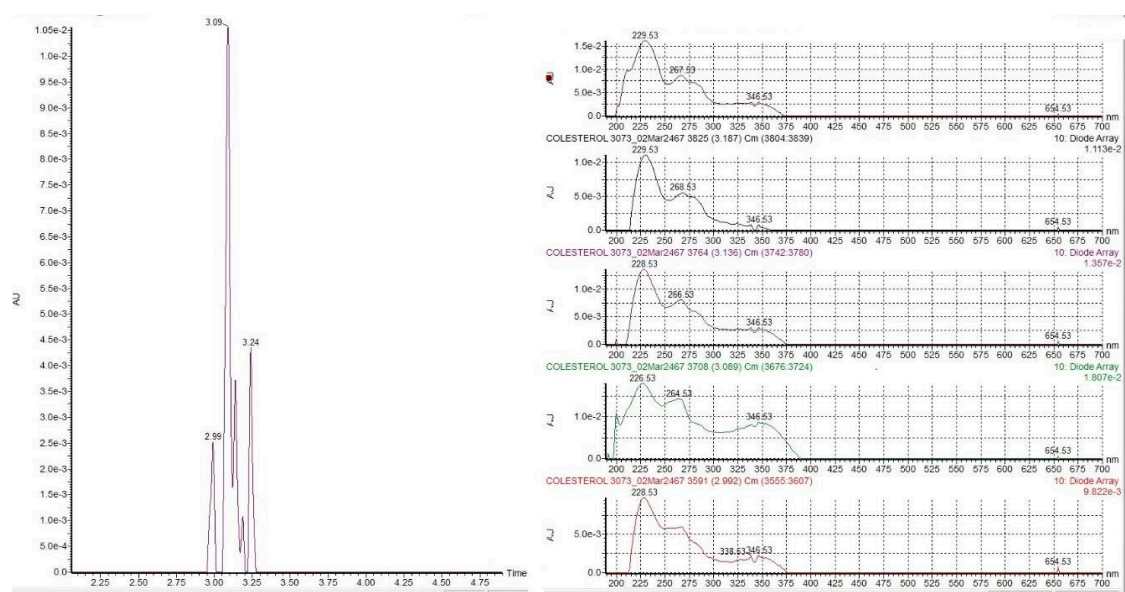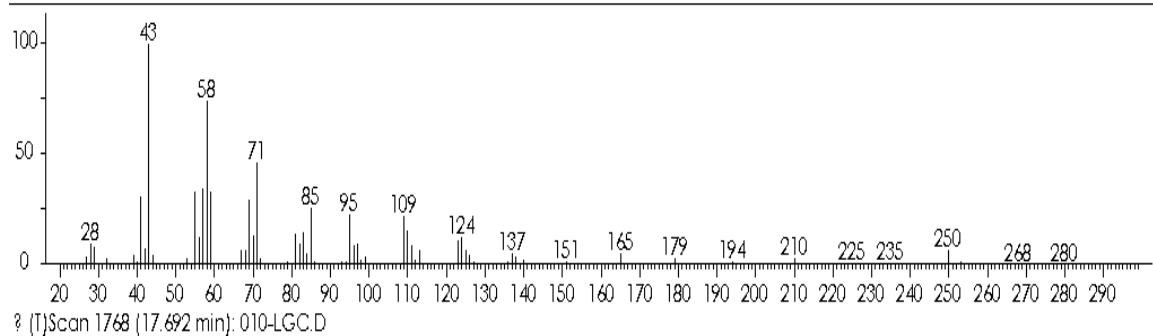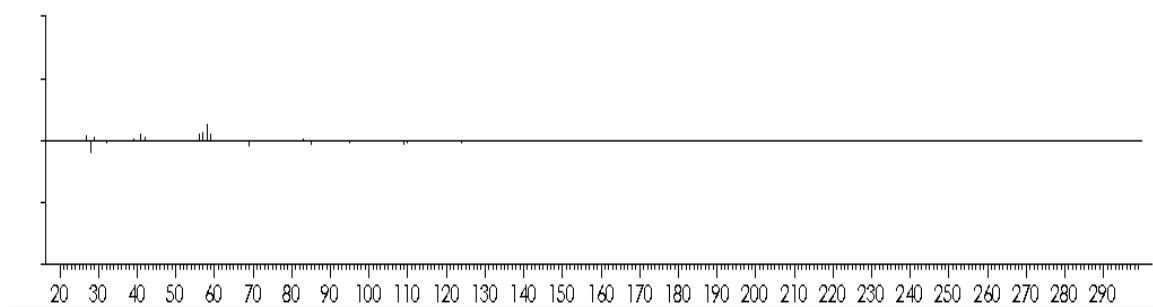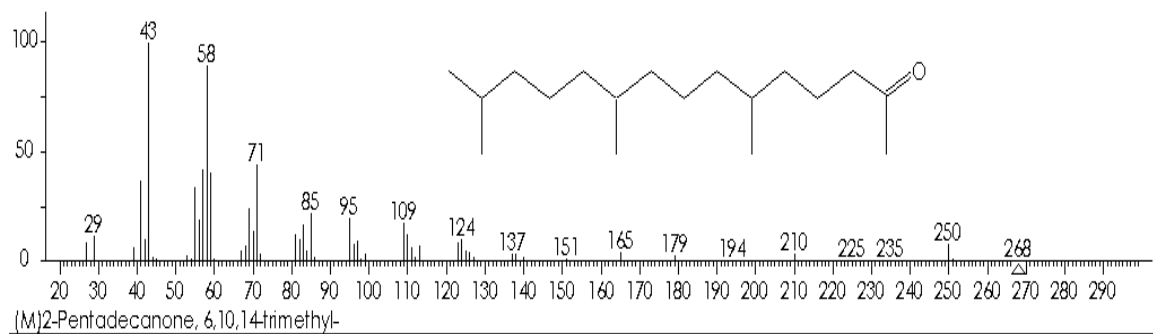

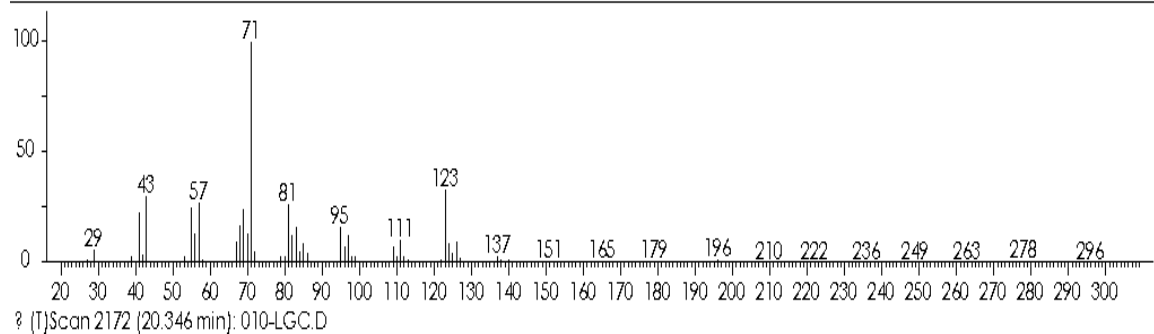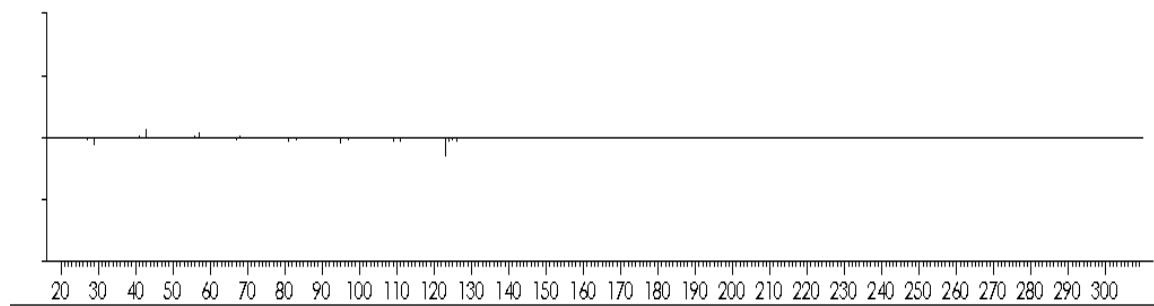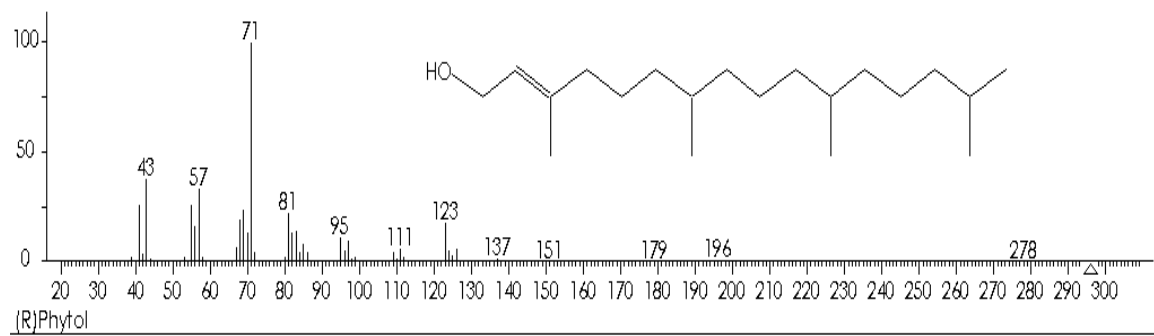Figure S1: UPLC chromatogram and UV spectra of F14.

Figure S2: MS data of peak 1 identified in F3.

Figure S3: MS data of peak 2 identified in F3.

Figure S4: MS data of peak 3 identified in F3.

(M)Oxirane, 2,2-dimethyl-3-(3,7,12,16,20-pentamethyl-3,7,11,15,19-heneicosapentaenyl)-, (all-E)-

Figure S5: MS data of peak 4 identified in F3.

Figure S6: MS data of peak 5 identified in F3.

Figure S7: MS data of peak 6 identified in F3.
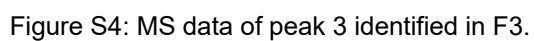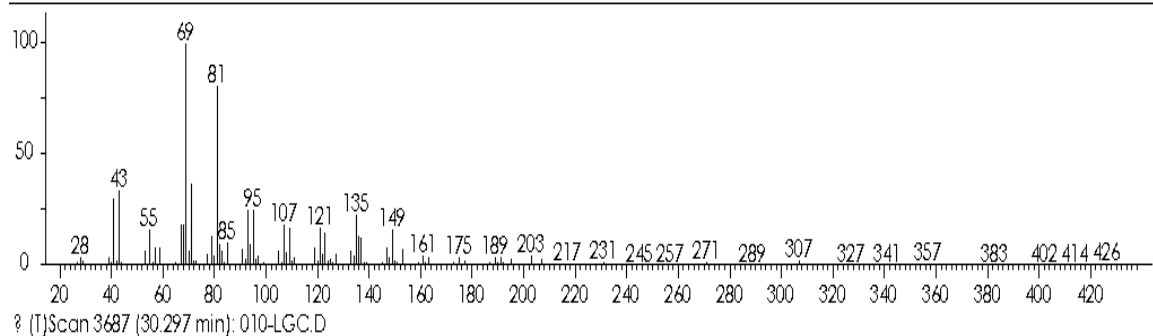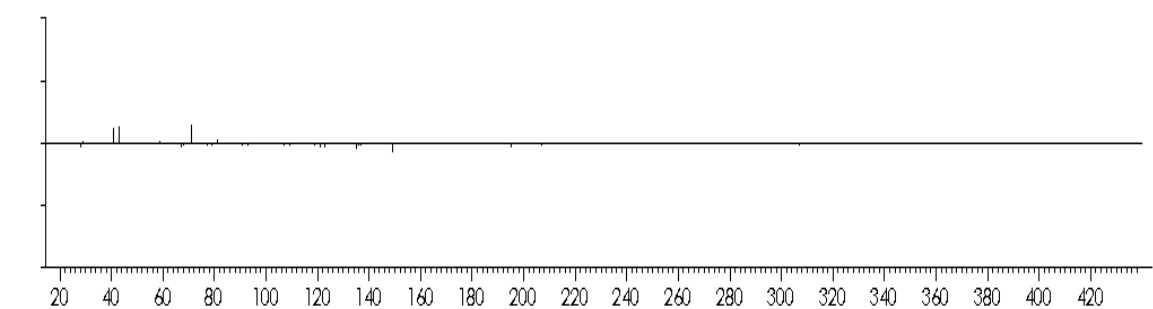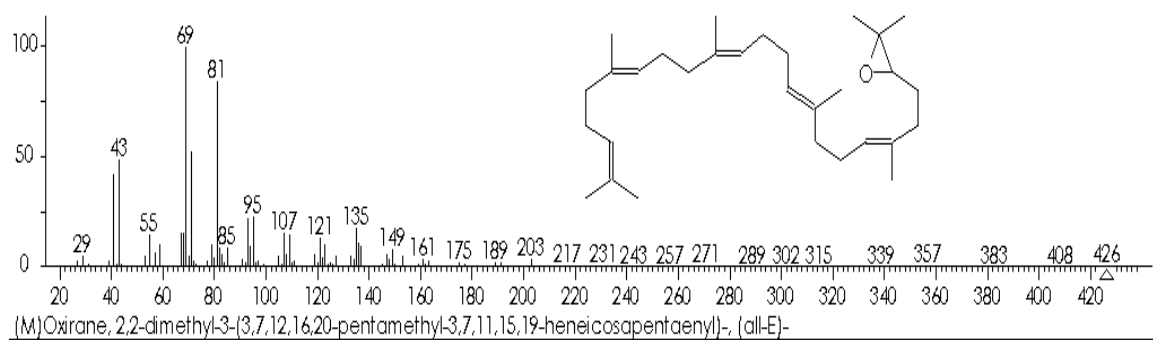
Figure S8: MS data of peak 7 identified in F3.

Figure S9: MS data of peak 8 identified in F3.
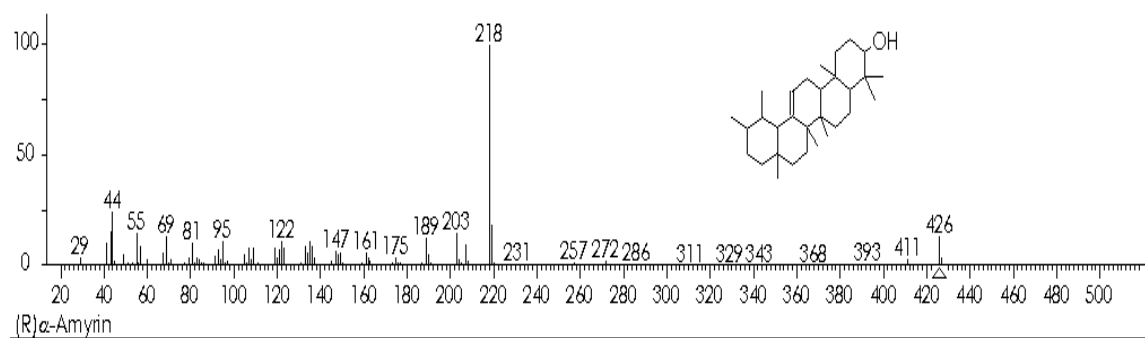
Figure S10: MS data of peak 9 identified in F3.
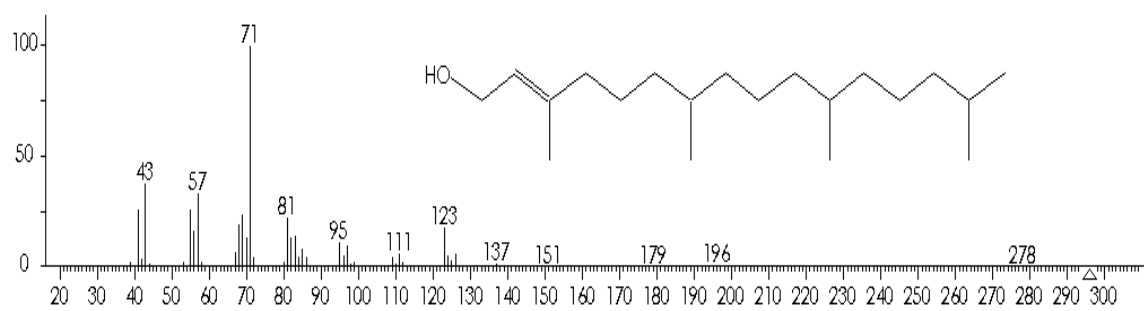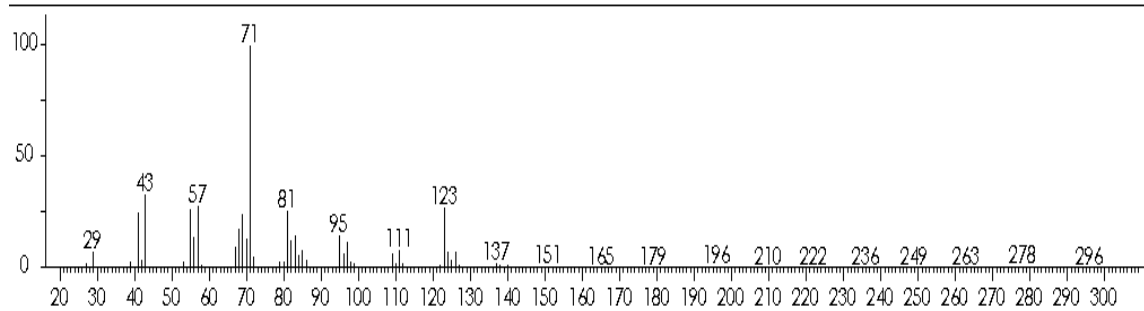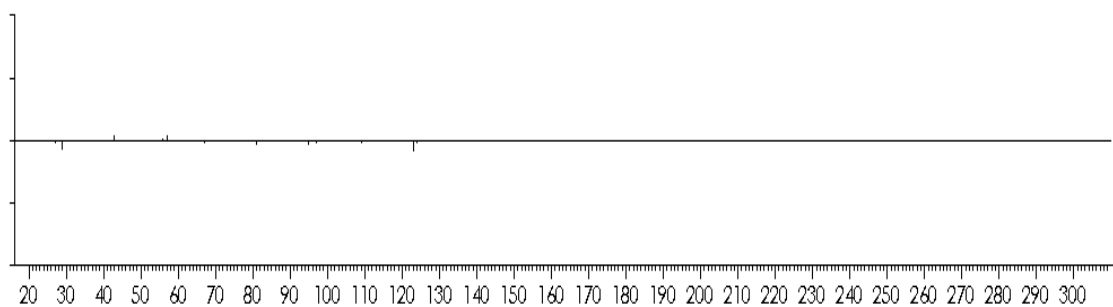
Figure S11: MS data of peak 1 identified in F4-10.

(M)4,8,12,16-Tetramethylheptadecan-4-olide

? (T)Scan 2494 (22.461 min): 008-LGC.D

Figure S12: MS data of peak 2 identified in F4-10.
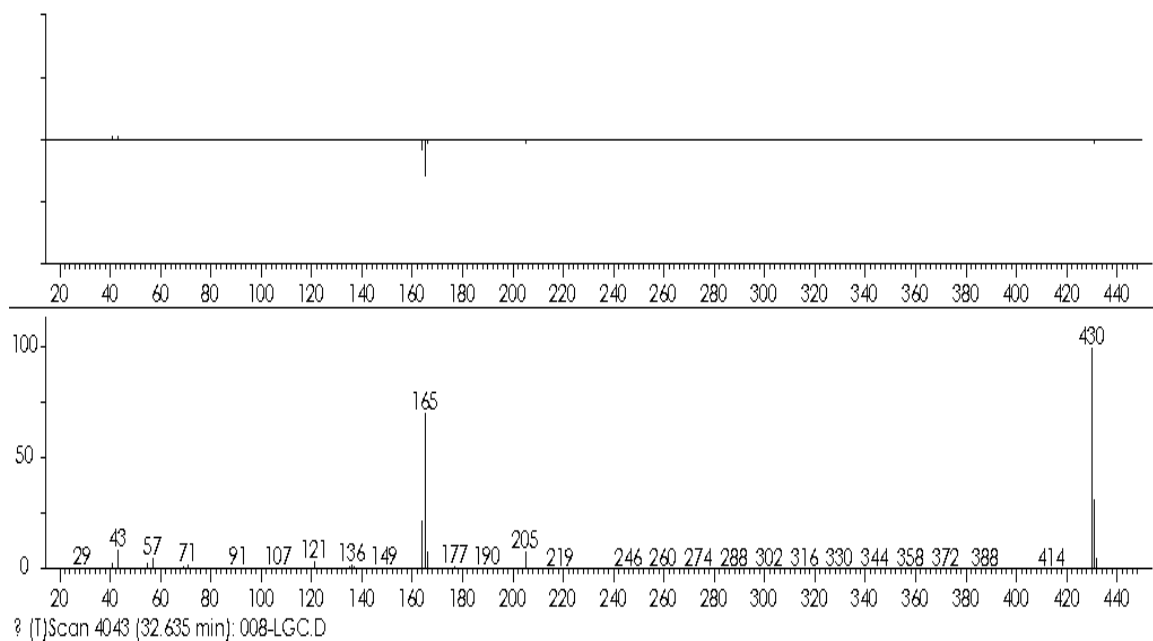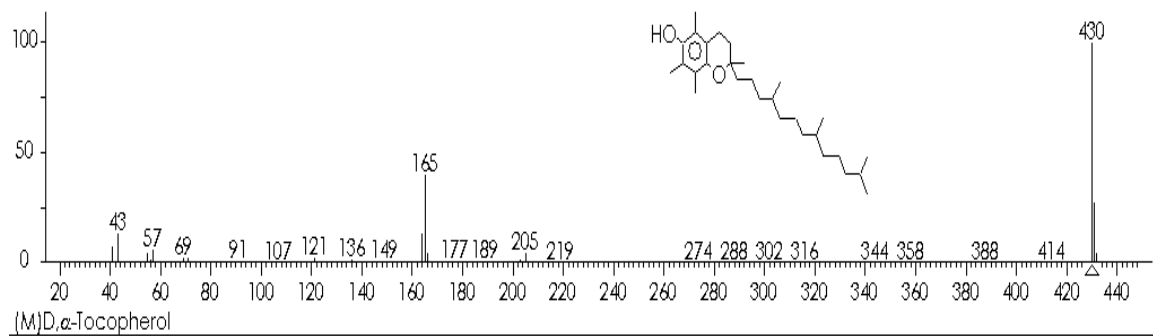
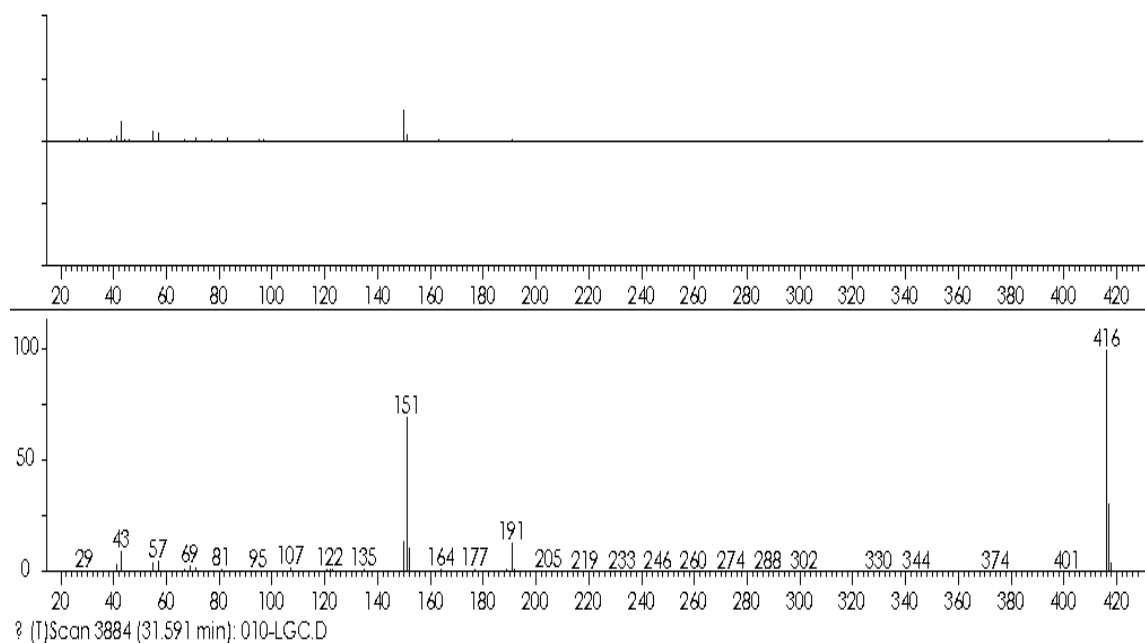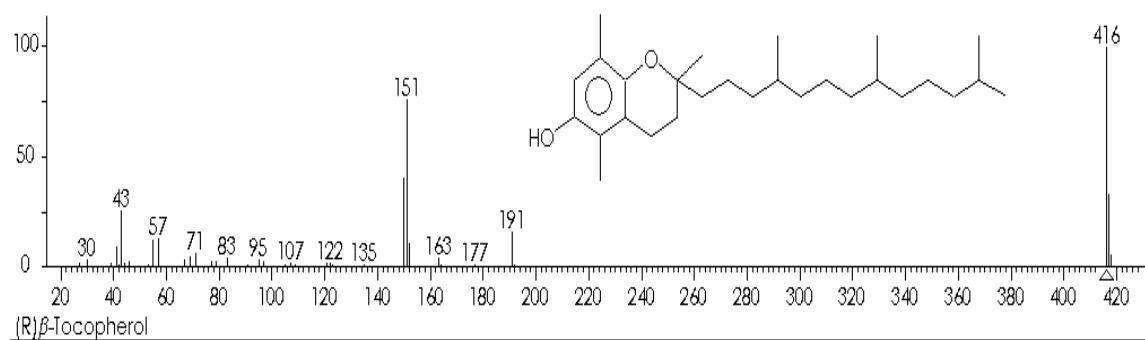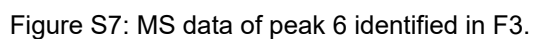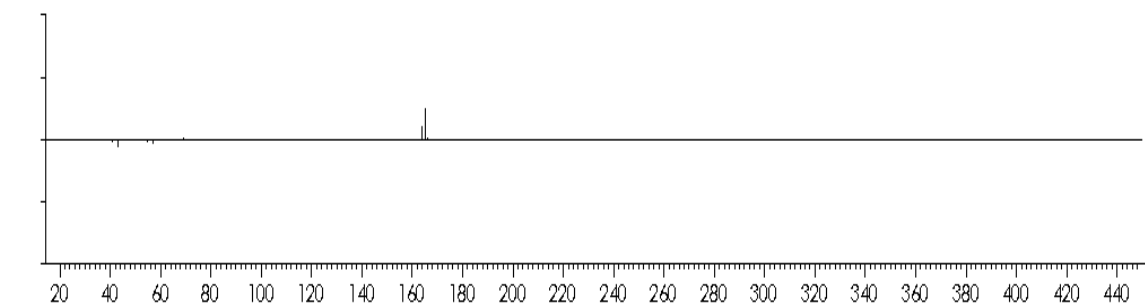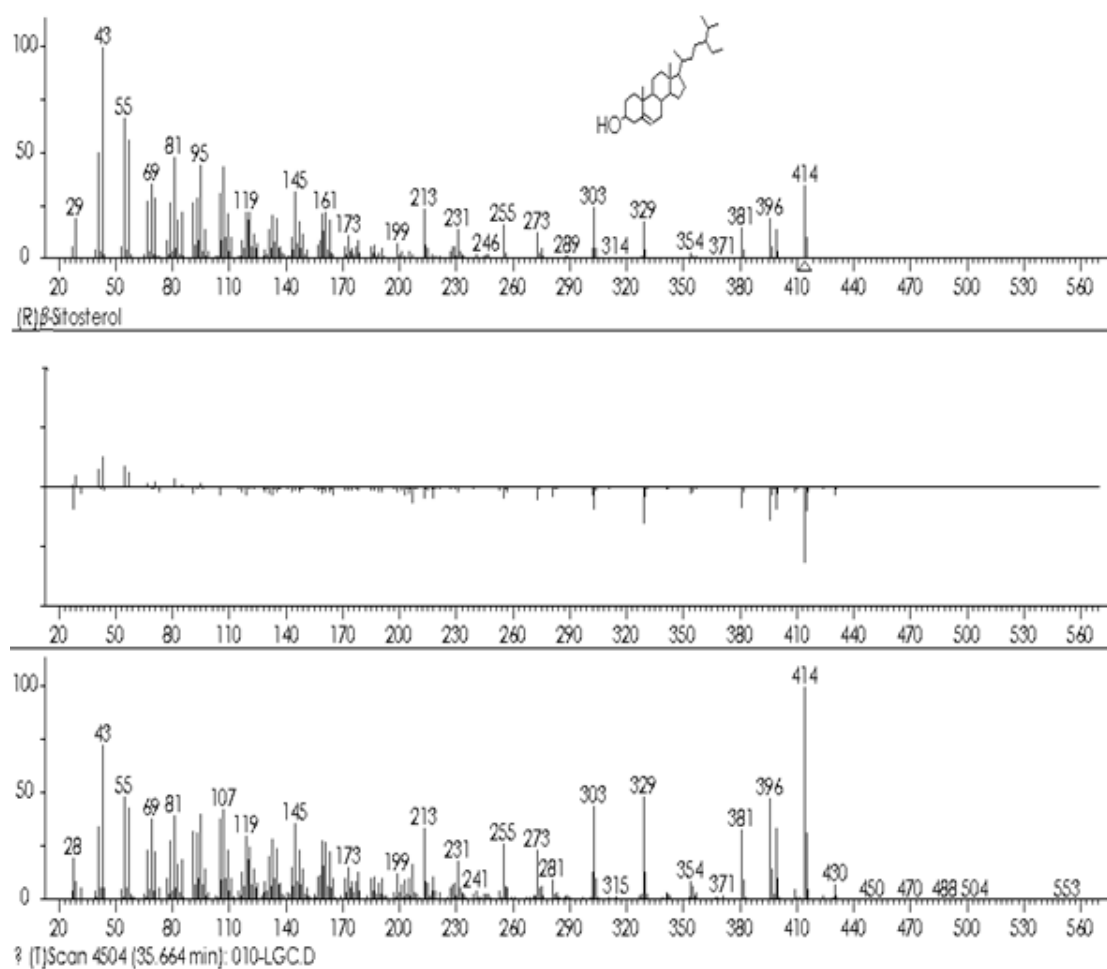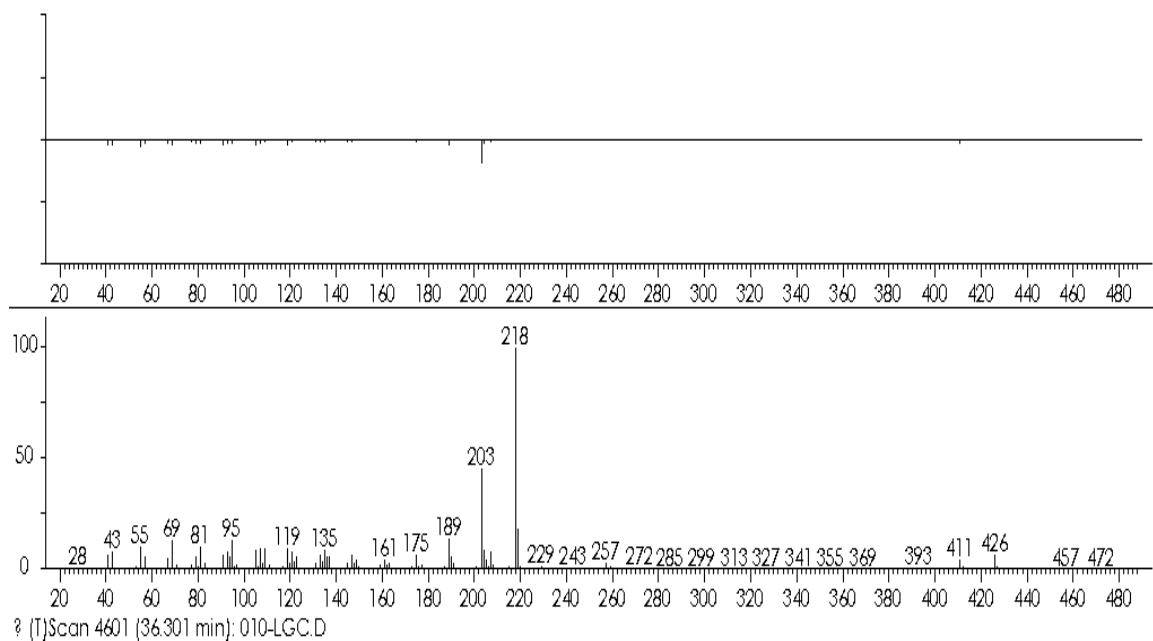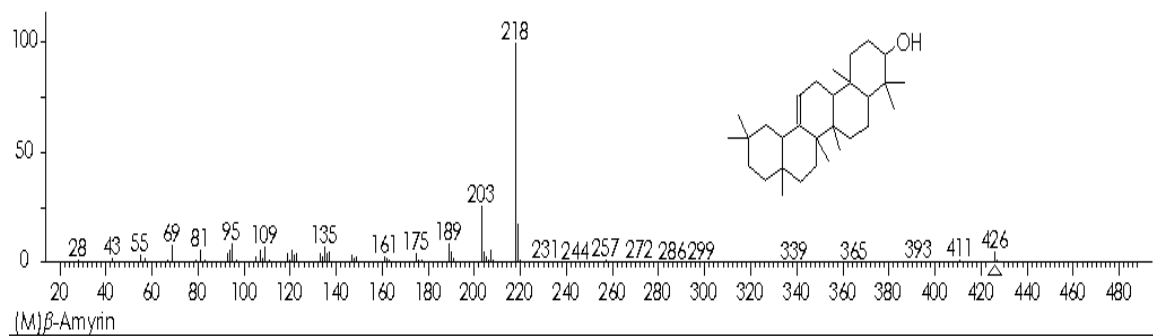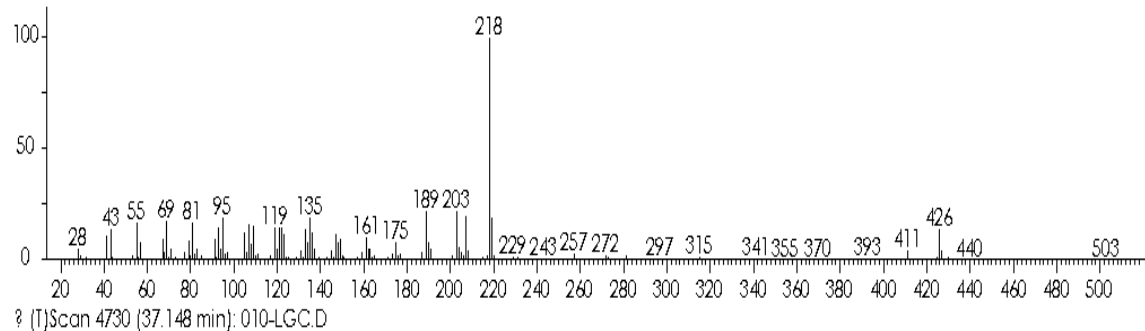Figure S13: MS data of peak 3 identified in F4-10.
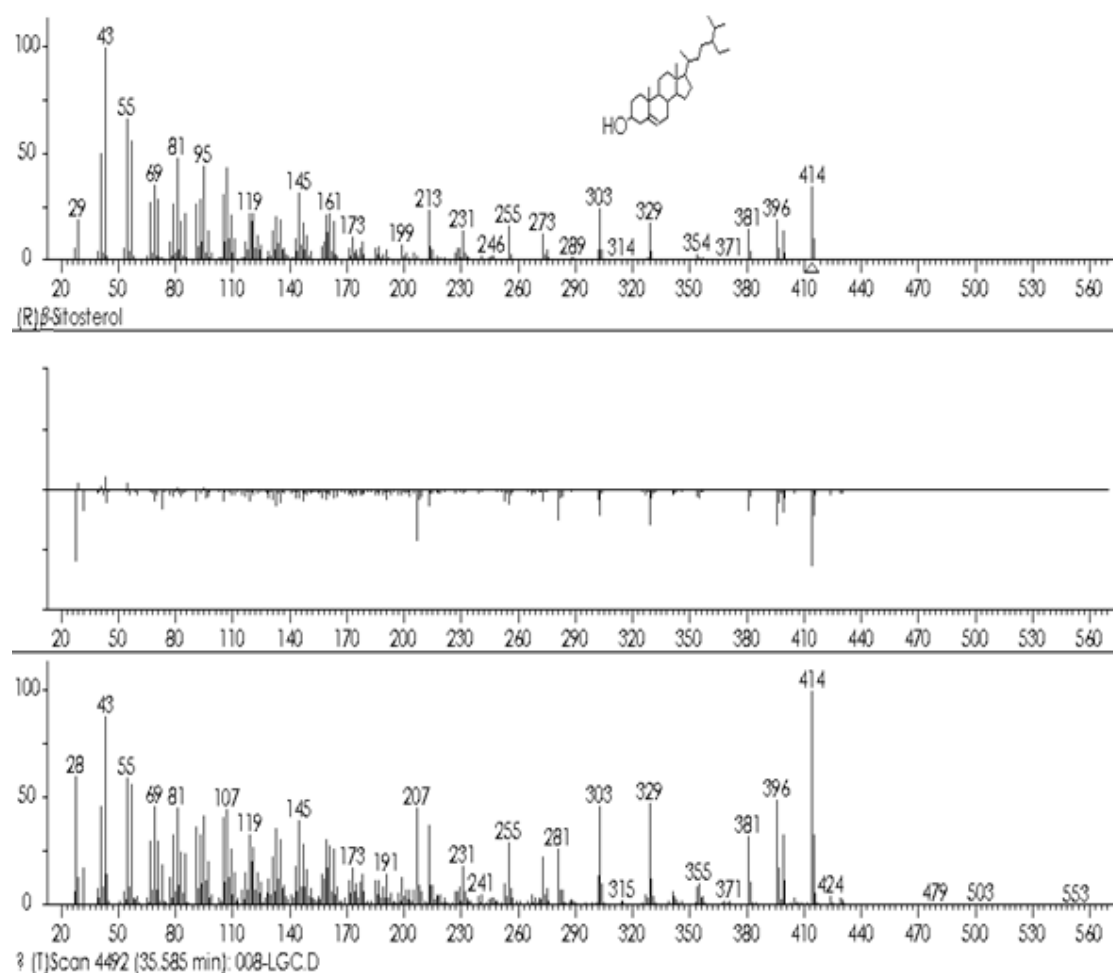
Figure S14: MS data of peak 4 identified in F4-10.
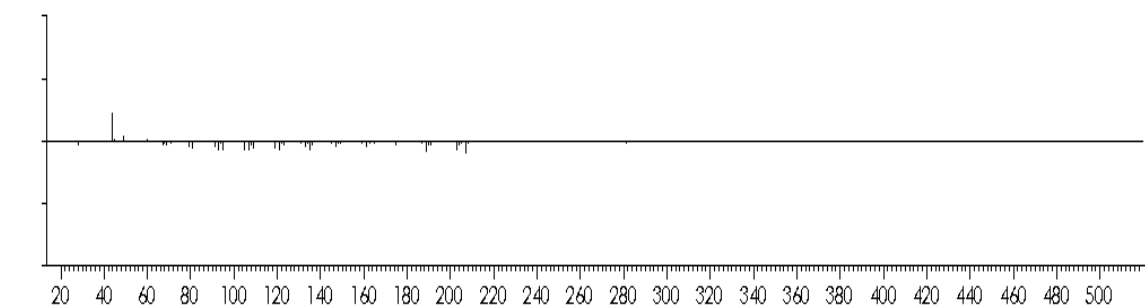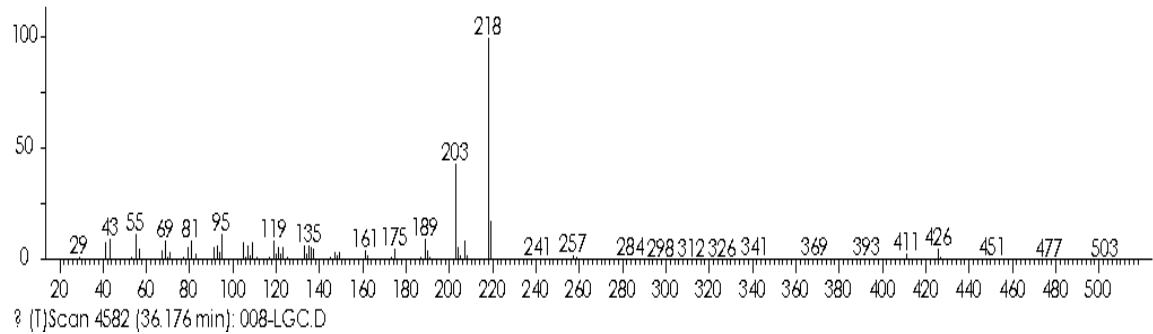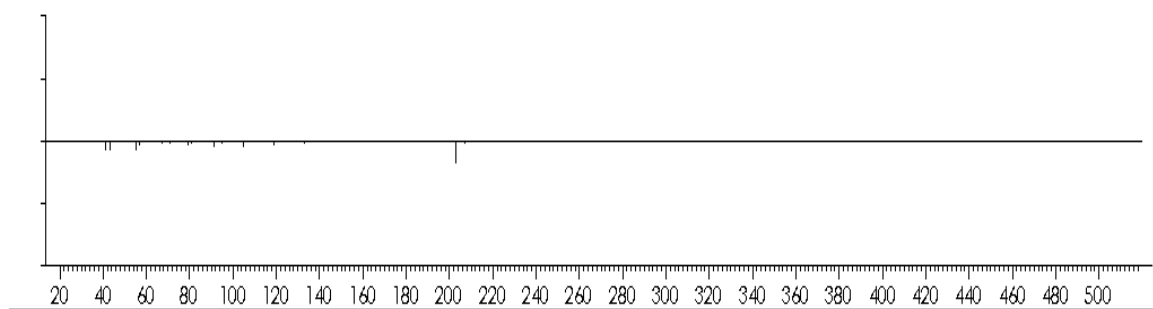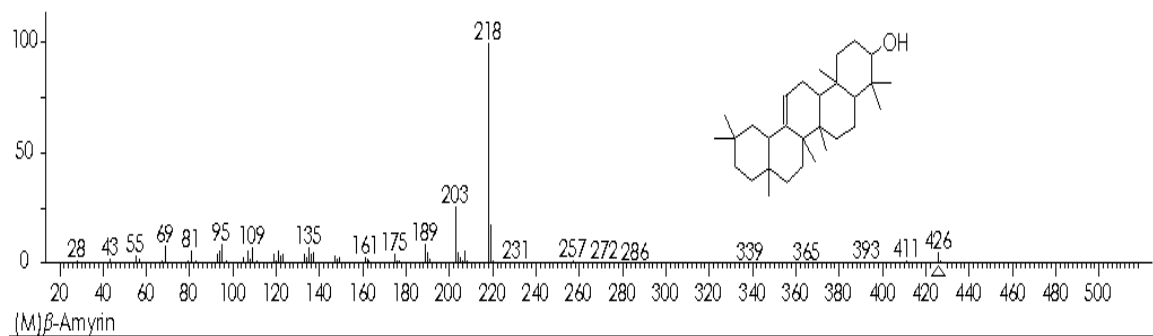
Figure S15: MS data of peak 5 identified in F4-10.

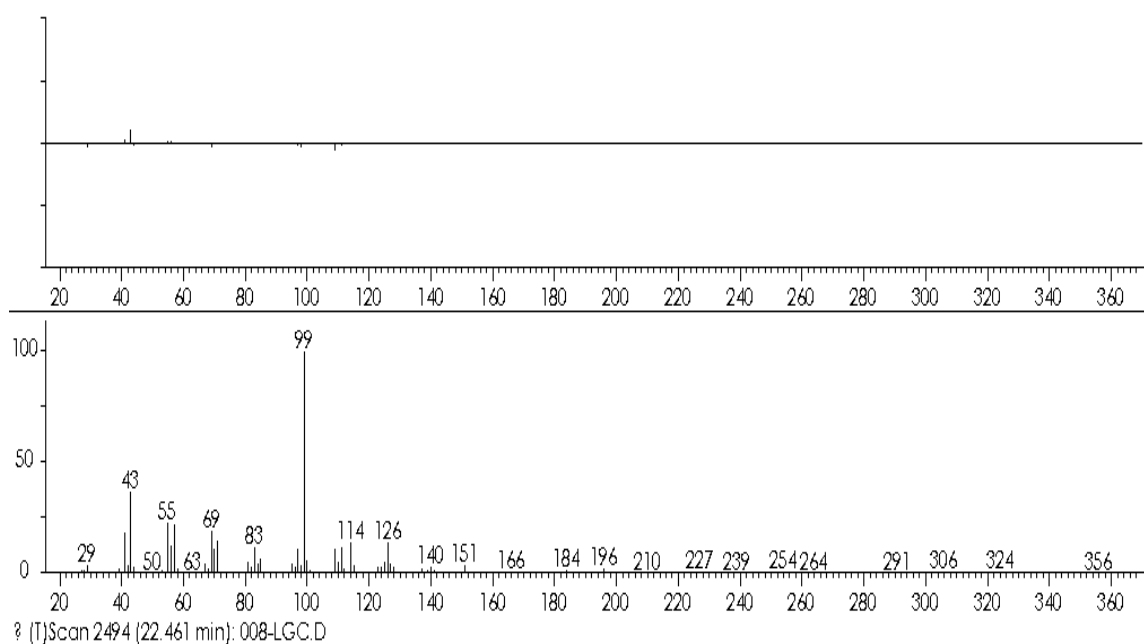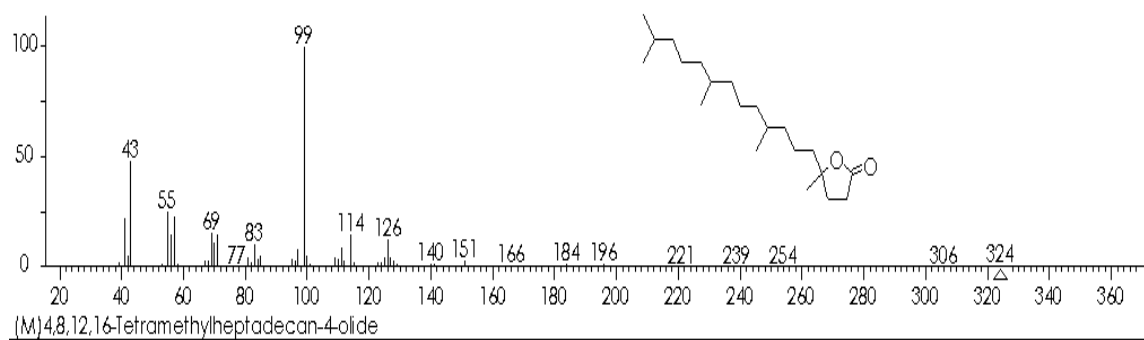| | | | Doses (mg/kg, *p.o.*) | | | | | | | | | | | | | | | | | | | | |
| | | | 100 | | | | | 200 | | | | | 400 | | | | | 600 | | | | |
| | | | Time (h) | | | | | Time (h) | | | | | Time (h) | | | | | Time (h) | | | | |
			0.5	1.5	3	6	24	0.5	1.5	3	6	24	0.5	1.5	3	6	24	0.5	1.5	3	6	24
Observation of behavior	Perception, awareness	Alertness																				
		Passiveness																				
	Mood	Grooming																				
		Irritability, agression																				
	Motor activity	Spontaneous activity		+	+	+	+		+	+	+	+		++	++	++	++		++	++	++	++
		Reactivity																				
		Touch scape																				
Neurological study	Excitation of the central nervous system	Tremors																				
		Seizures																				
	Motor incoordination	Righting reflex																				

Muscle tone		Limb tone																								
		Body tone																								
	Reflexes	Corneal reflex																								
		Reaching reflex																								
Autonomous scheme		Palpebral closure																								
		Salivation																								
		Piloerection																								
		Hypothermia																								
		Respiration rate																								

Figure S16: Irwin test for the acetone extract of *M. mexicana* A. Juss. Leaves (MmAE).
+= low, ++= medium, +++= high.