

Supplementary Materials: Absence of Cyanotoxins in Llayta, Edible Nostocaceae Colonies from the Andes Highlands

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To assess the presence/absence of other microcystin variants, precursor ions of [DMAdda⁵] MC-LR (m/z 981), [ADMAdda⁵] MC-LR (m/z 1009) and [D-Asp³, ADMAdda⁵] MC-LR (m/z 1023) were searched in the MS/MS obtained spectra. Diagnostic ions at m/z 553 [Mdha-Ala-Leu-MeAspArg + H⁺] and m/z 627 [Arg-ADMAdda-Glu + H⁺] were also scanned, as well as, DMAdda (m/z 121.06) and ADMAdda (m/z 163.08) specific fragment ions.

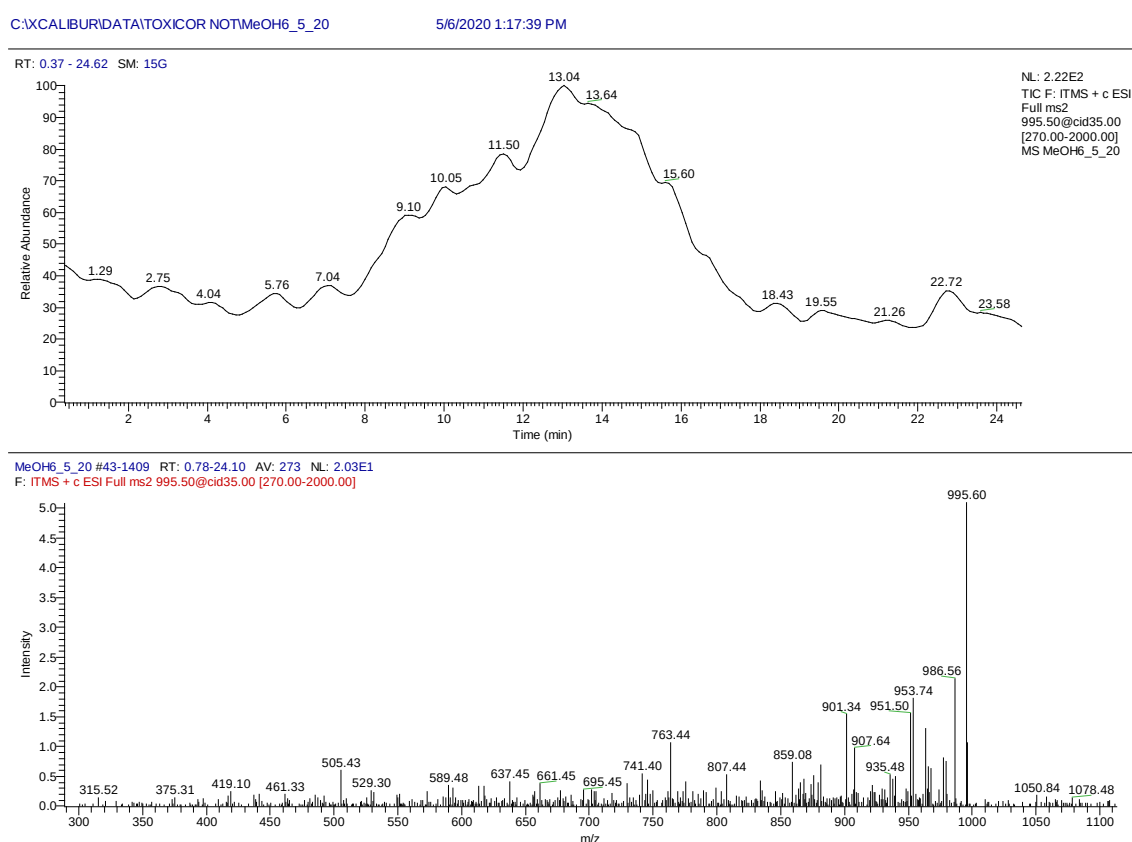
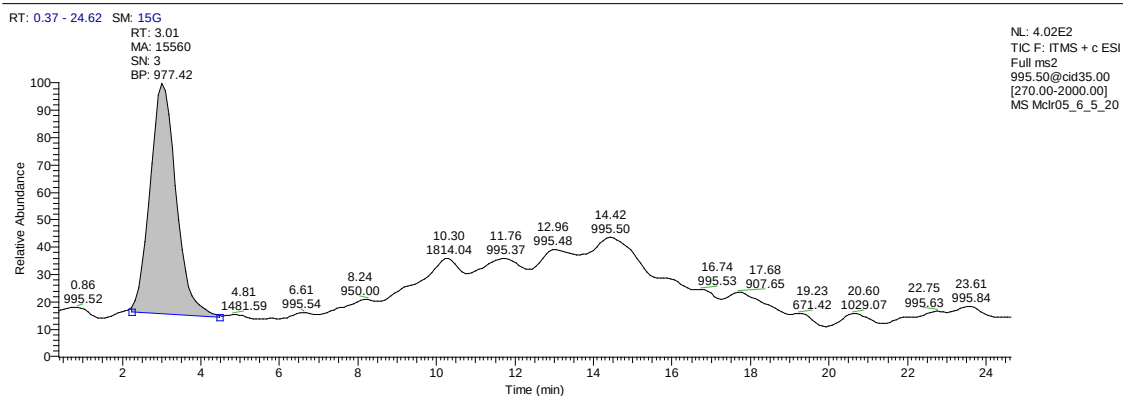


Figure S1. Extracted Ion Chromatogram and spectrum of Blank solution (methanol 50% + 0.1% Formic acid).



Mcr05_6_5_20 #177 RT: 3.01 AV: 1 NL: 6.66E1
F: ITMS + c ESI Full ms2 995.50@cid35.00 [270.00-2000.00]

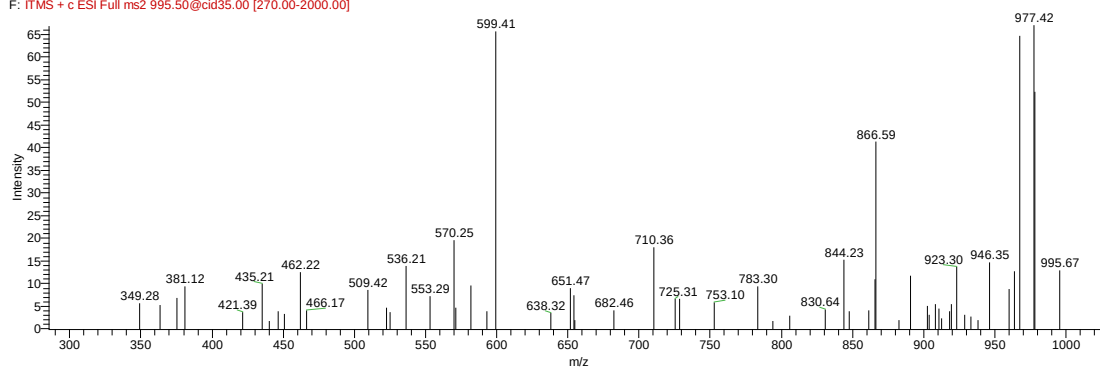


Figure S2. Extracted Ion Chromatogram and Full MS² spectrum of MC-LR Standard (20 ppb) at 3.01 min.

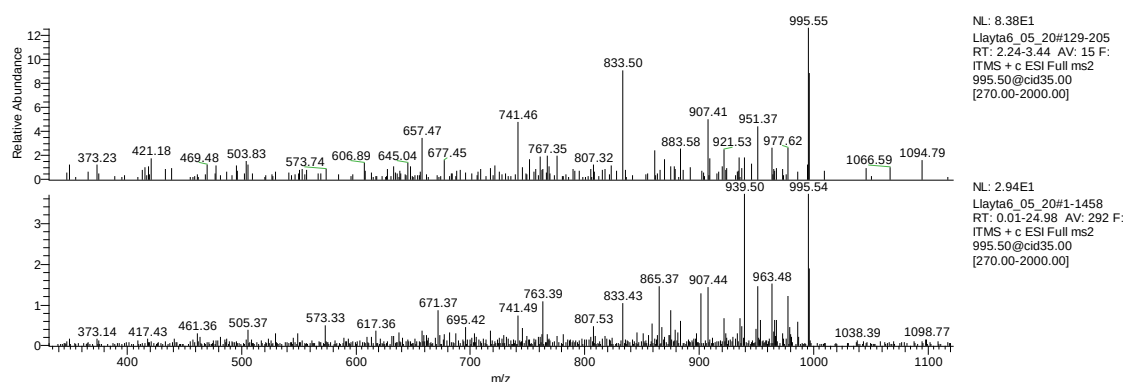
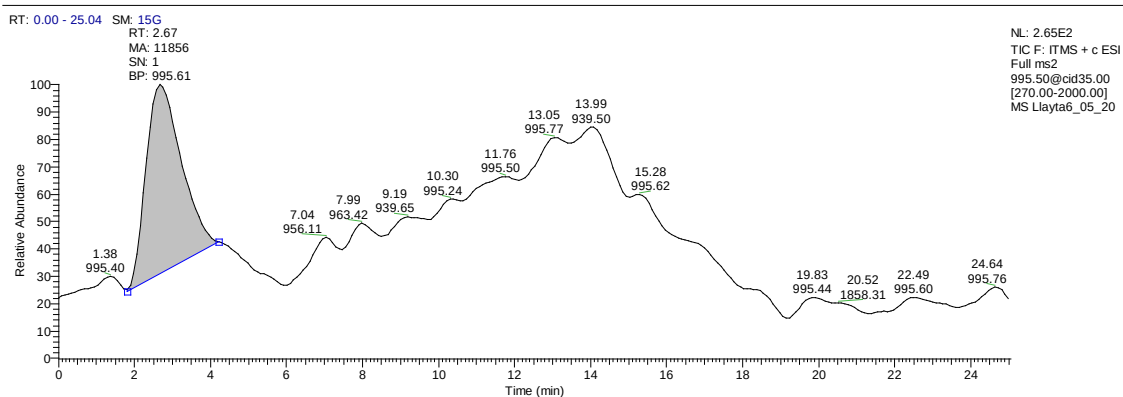


Figure S3. Extracted Ion Chromatogram and Full MS² spectra of Llayta extract at m/z 995.50.

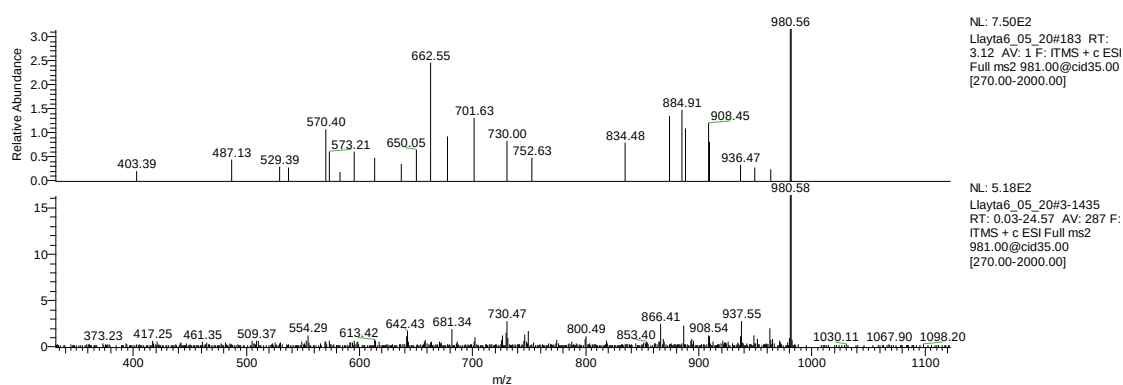
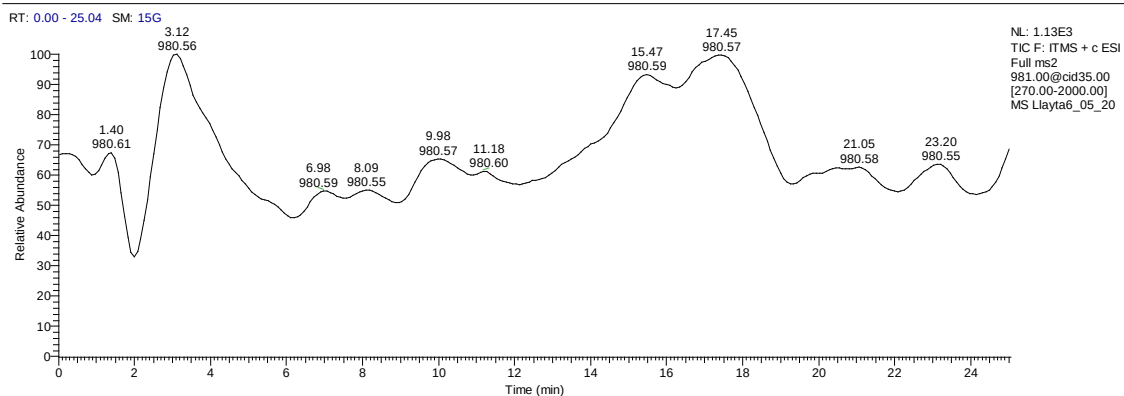


Figure S4. Extracted Ion Chromatogram and Full MS² spectra of Llayta extract at m/z 981.

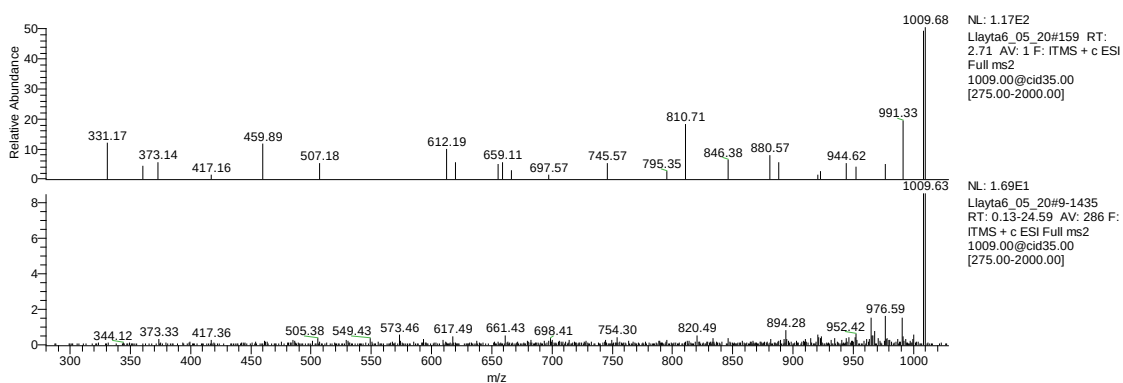
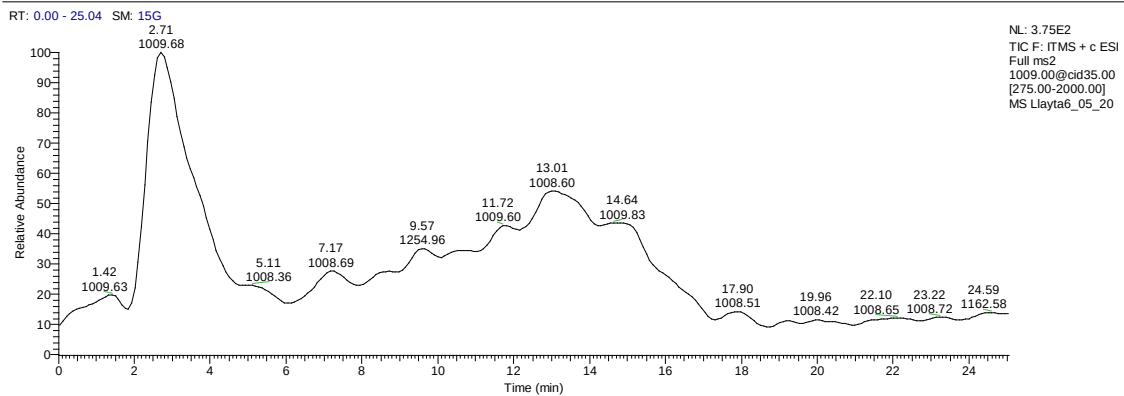


Figure S5. Extracted Ion Chromatogram and Full MS² spectra of Llayta extract at m/z 1009.

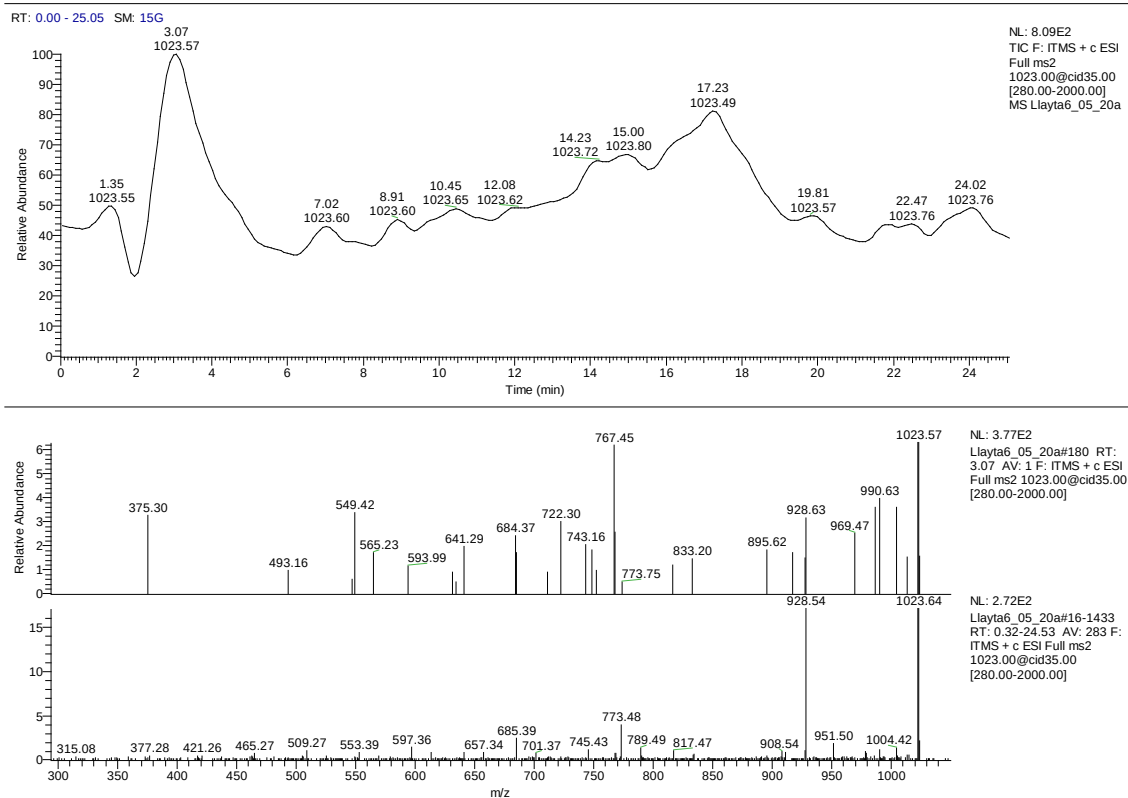


Figure S6. Extracted Ion Chromatogram and MS² spectra of Llayta extract at m/z 1023.

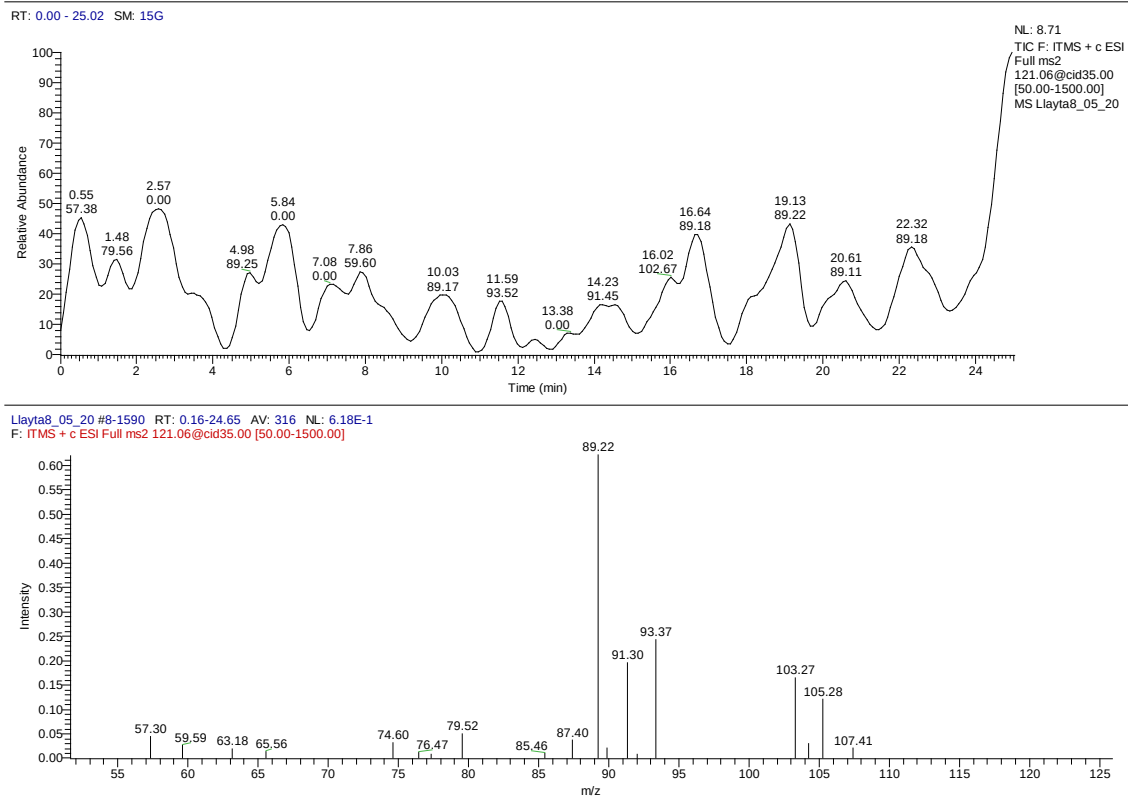


Figure S7. Extracted Ion Chromatogram and MS² spectrum of Llayta extract at m/z 121.06.

RT: 0.00 - 25.01 SM: 15G

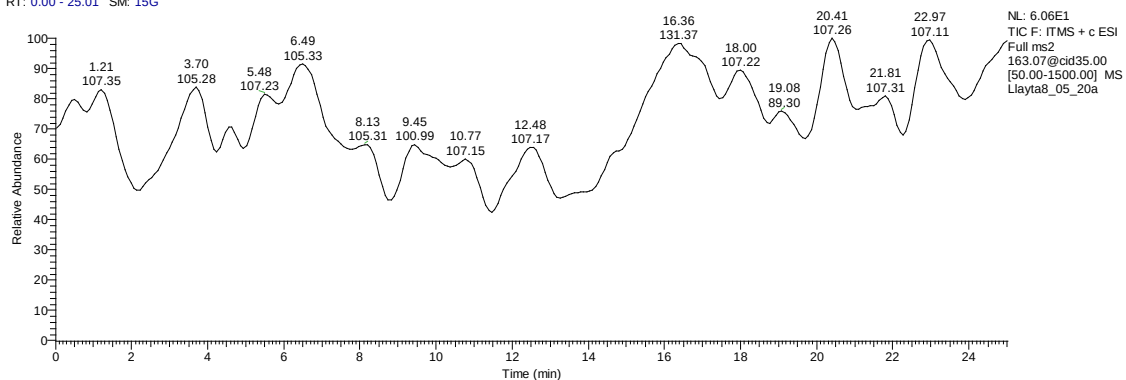
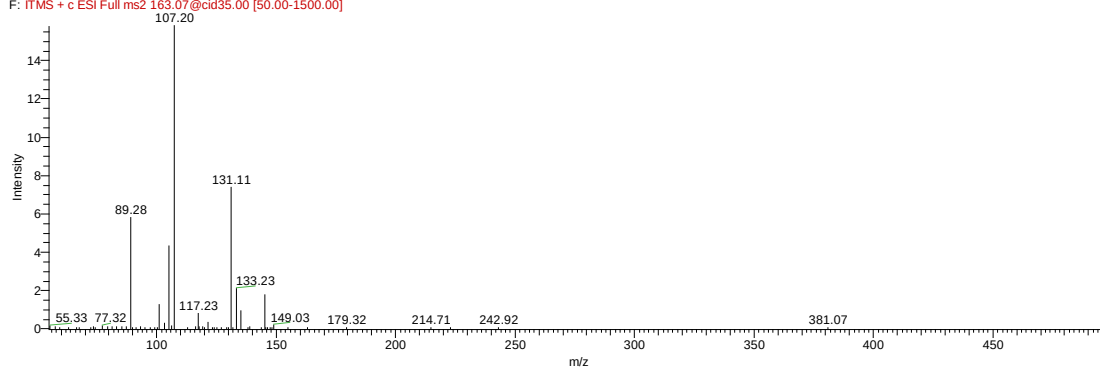
Llayta8_05_20a #165-1430 RT: 2.61-22.20 AV: 253 NL: 1.58E1
F: ITMS + c ESI Full ms2 163.07@cid35.00 [50.00-1500.00]

Figure S8. Extracted Ion Chromatogram and MS² spectrum of Llayta extract at m/z 163.07.