

LC-ESI-QTOF-MS/MS characterization and estimation of antioxidant potential of phenolic compounds from different parts of lotus (*Nelumbo Nucifera*) seed and rhizome

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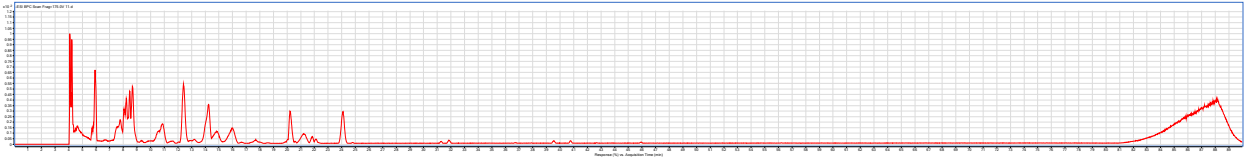
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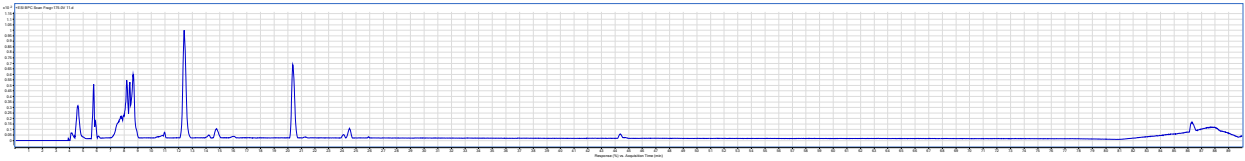
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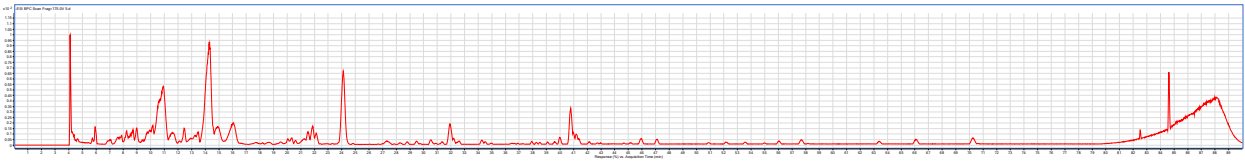
(a)



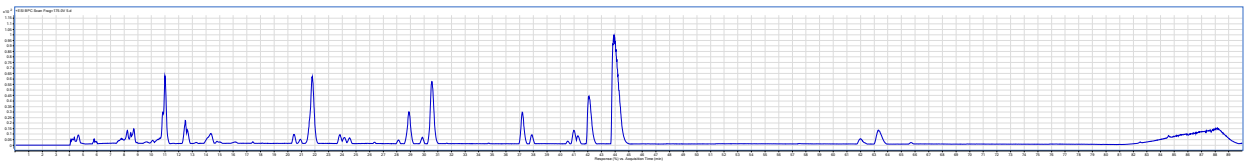
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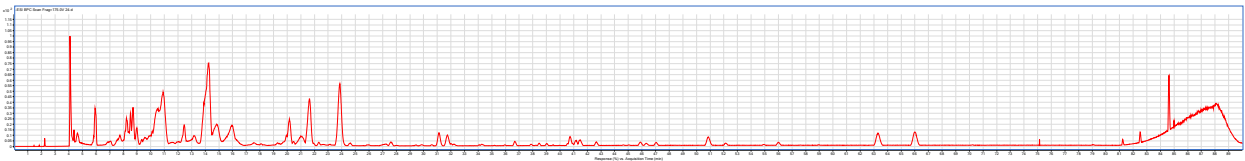
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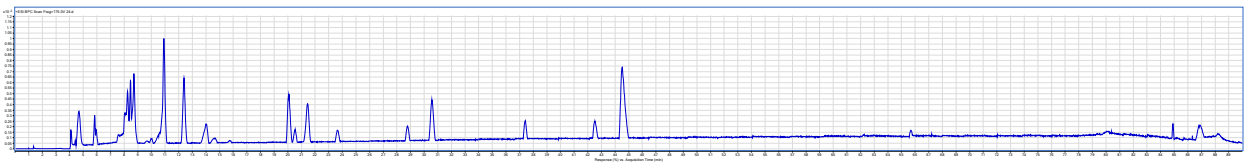
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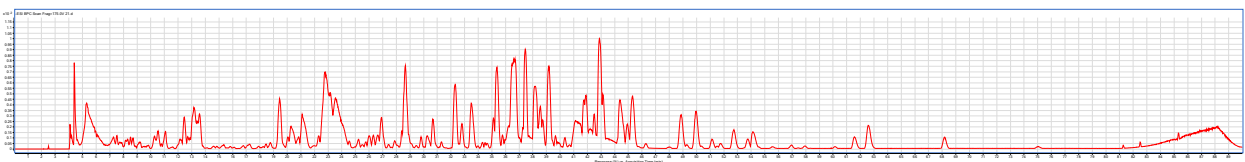
(e)



(f)



(g)



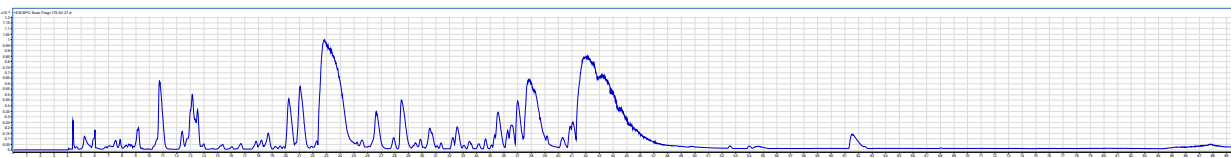
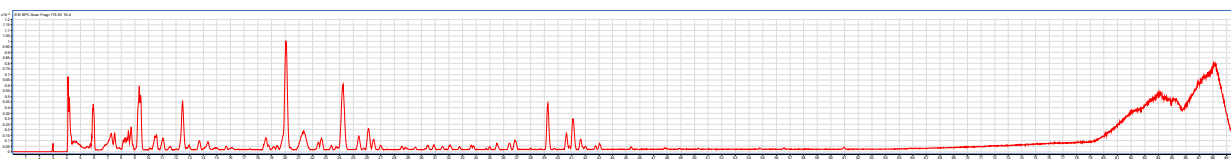
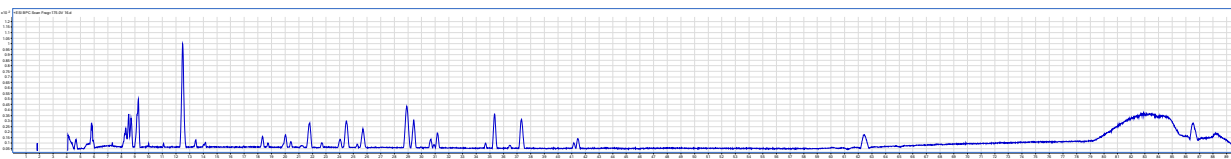
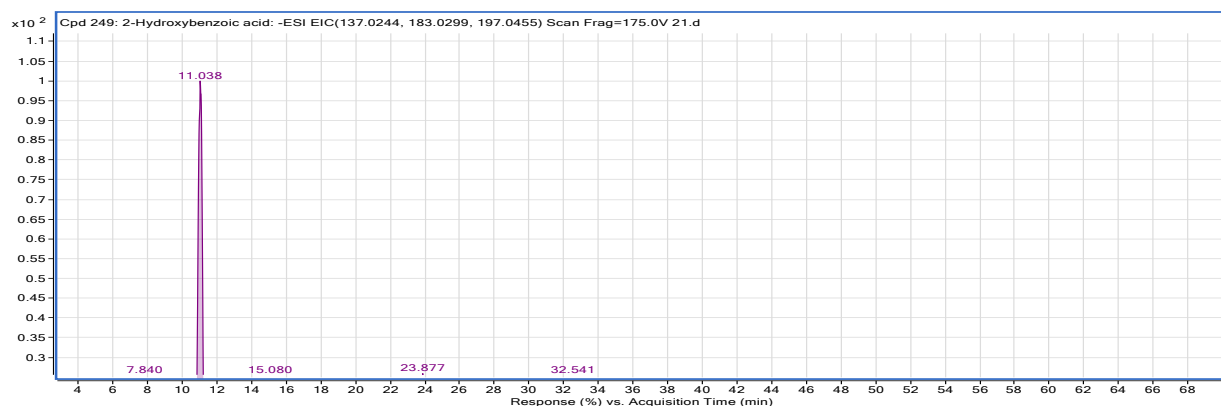
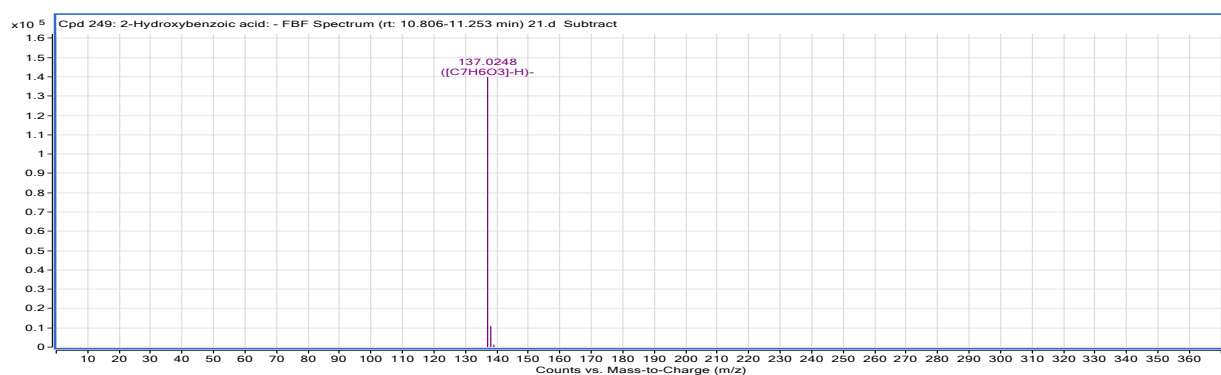
(h)**(i)****(j)**

Figure S1: LC-ESI-QTOF-MS/MS basic peak chromatograph (BPC) for characterization of phenolic compounds of Australian grown lotus; **(a)** The pulp of lotus rhizome in negative ionization mode; **(b)** The pulp of lotus rhizome in positive ionization mode; **(c)** The peel of lotus rhizome in negative ionization mode; **(d)** The peel of lotus rhizome in positive ionization mode; **(e)** The knot of lotus rhizome in negative ionization mode; **(f)** The knot of lotus rhizome in positive ionization mode; **(g)** The embryo of lotus seed in negative ionization mode; **(h)** The embryo of lotus seed in positive ionization mode; **(i)** The cotyledon of lotus seed in negative ionization mode; **(j)** The cotyledon of lotus seed in positive ionization mode.

(a)



(b)



(c)

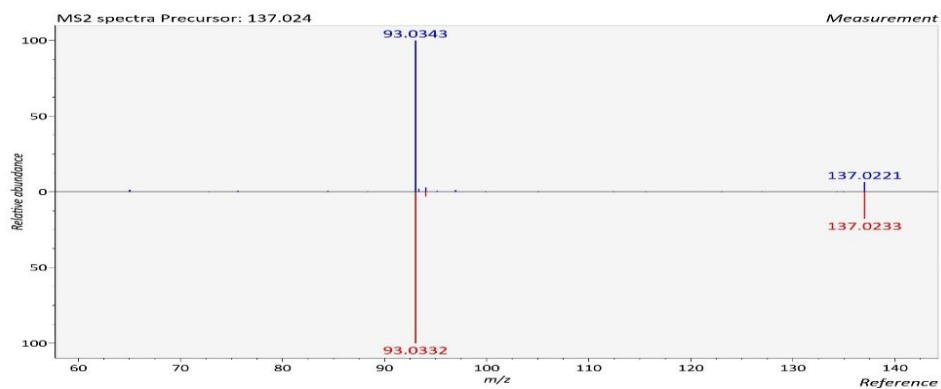


Figure S2. The LC-ESI-QTOF-MS/MS characterization of 2-hydroxybenzoic acid; (a) A chromatograph of 2-hydroxybenzoic acid (Compound 2, Table 3), in the negative mode of ionization $[M - H]^-$ identified in all five lotus samples including lotus seed embryo (LSE); (b) Mass spectra of 2-hydroxybenzoic acid with observed/precursor of m/z 137.0248; (c) MS / MS spectrum of 2-hydroxybenzoic acid reflecting the product ion of m/z 93, confirmation via online LC-MS library and database. Fragmentation of 2-hydroxybenzoic acid in negative mode $[M - H]^-$, with precursor of m/z 137, showing product ion of m/z 93 due to the loss of a CO_2 (44 Da).