SUPPLEMENTAL MATERIAL

Table S1. Content of Phenolic Compounds, Determined by HPLC-DAD, of the Hydrophilic Extract from Mana-cubiu.

Compound	Concentration (μg/mL hydrophilic extract)[a]
5-caffeoylquinic acid	44.89 ± 0.85
N^1,N^5or N^5,N^{10}-bis(dihydrocaffeoyl) spermidine	6.62 ± 0.18
N^1,N^5,N^{10}-tris(dihydrocaffeoyl) spermidine	5.45 ± 0.17
Total phenolic compounds (μg/mL hydrophilic extract)	**56.96 ± 0.63**

[a] The phenolic compounds were quantified as 5-caffeoylquinic acid equivalent (n= 3).

Figure S1. Fluorescence decay of C_{11}-BODIPY$^{581/591}$ induced by peroxyl radicals in the presence of different concentrations of the carotenoids from mana-cubiu. Legend: blank (*filled triangle*), 2.4 μM (*open circle*), 3.2 μM (*open square*), 6 μM (*filled square*), 12 μM (*filled circle*) and 16 μM (*open star*). **Inset:** linear relationship between the carotenoid concentrations and the net AUC values from the fluorescence decay curves of C_{11}-BODIPY$^{581/591}$ oxidation.

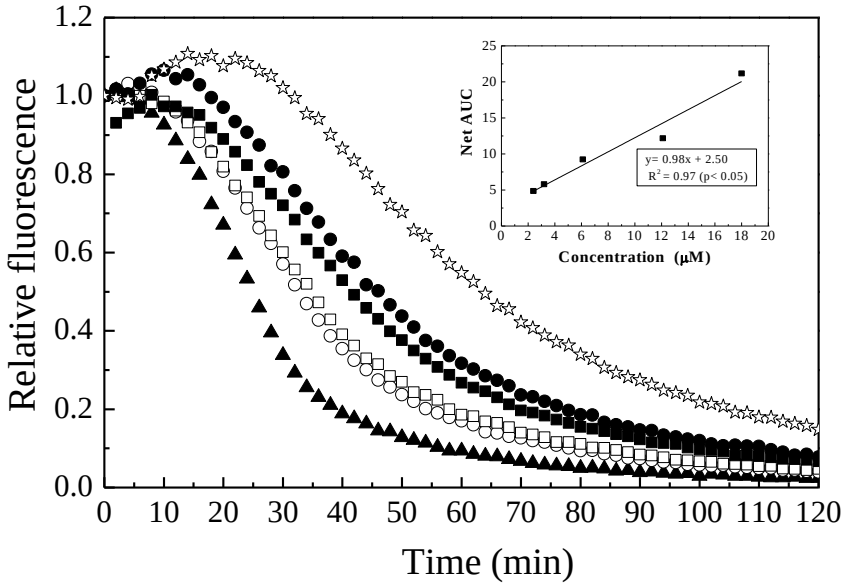

Figure S2. 5-Caffeoylquinic acid (**peak 1**): MS spectrum, MS^2 spectrum from *m/z* 355 and MS^3 spectrum from *m/z* 163 (positive mode).

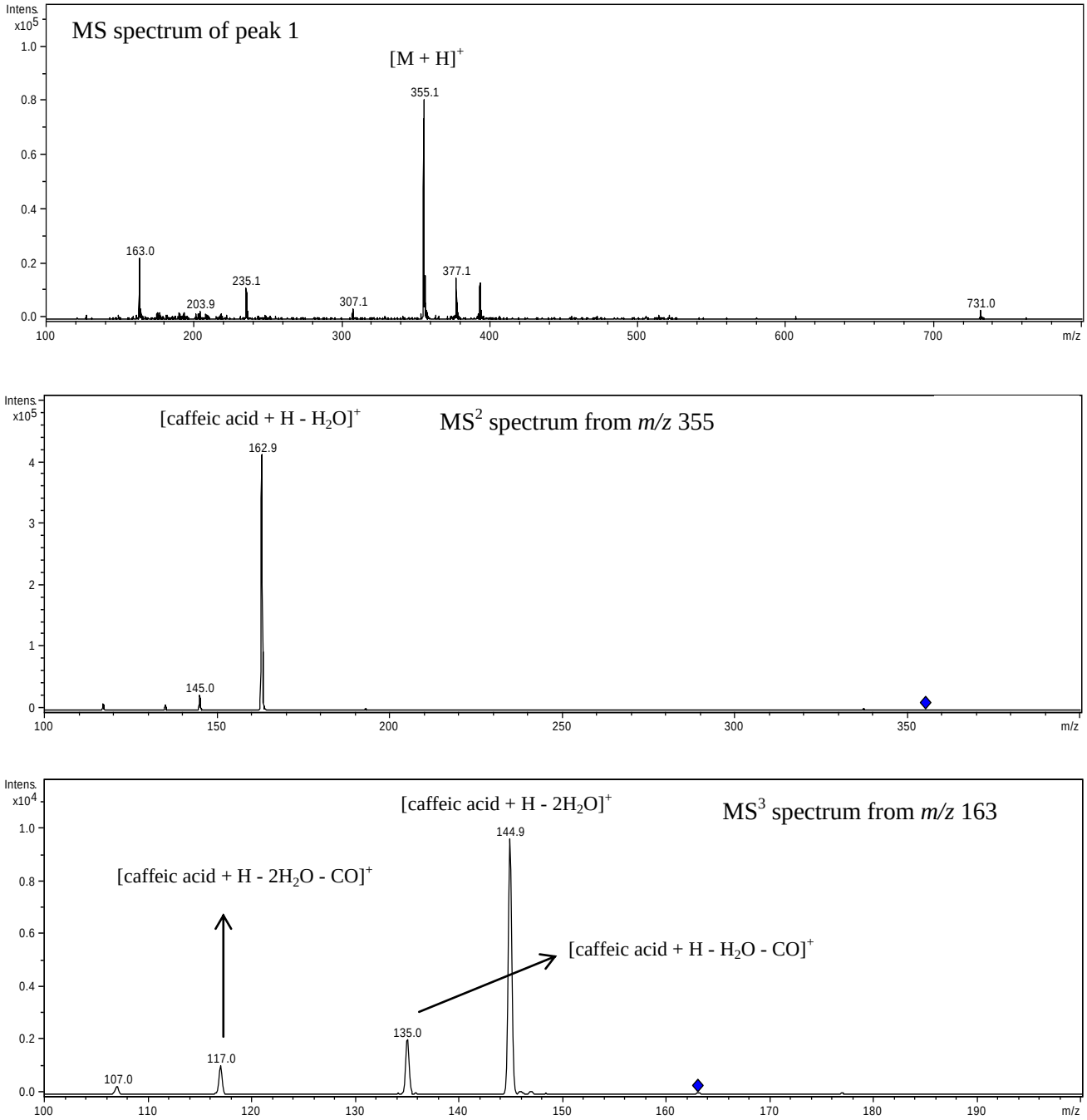

Figure S3. 5-Caffeoylquinic acid (**peak 1**): MS spectrum, MS^2 spectrum from *m/z* 353 and MS^3 spectrum from *m/z* 191 (negative mode).

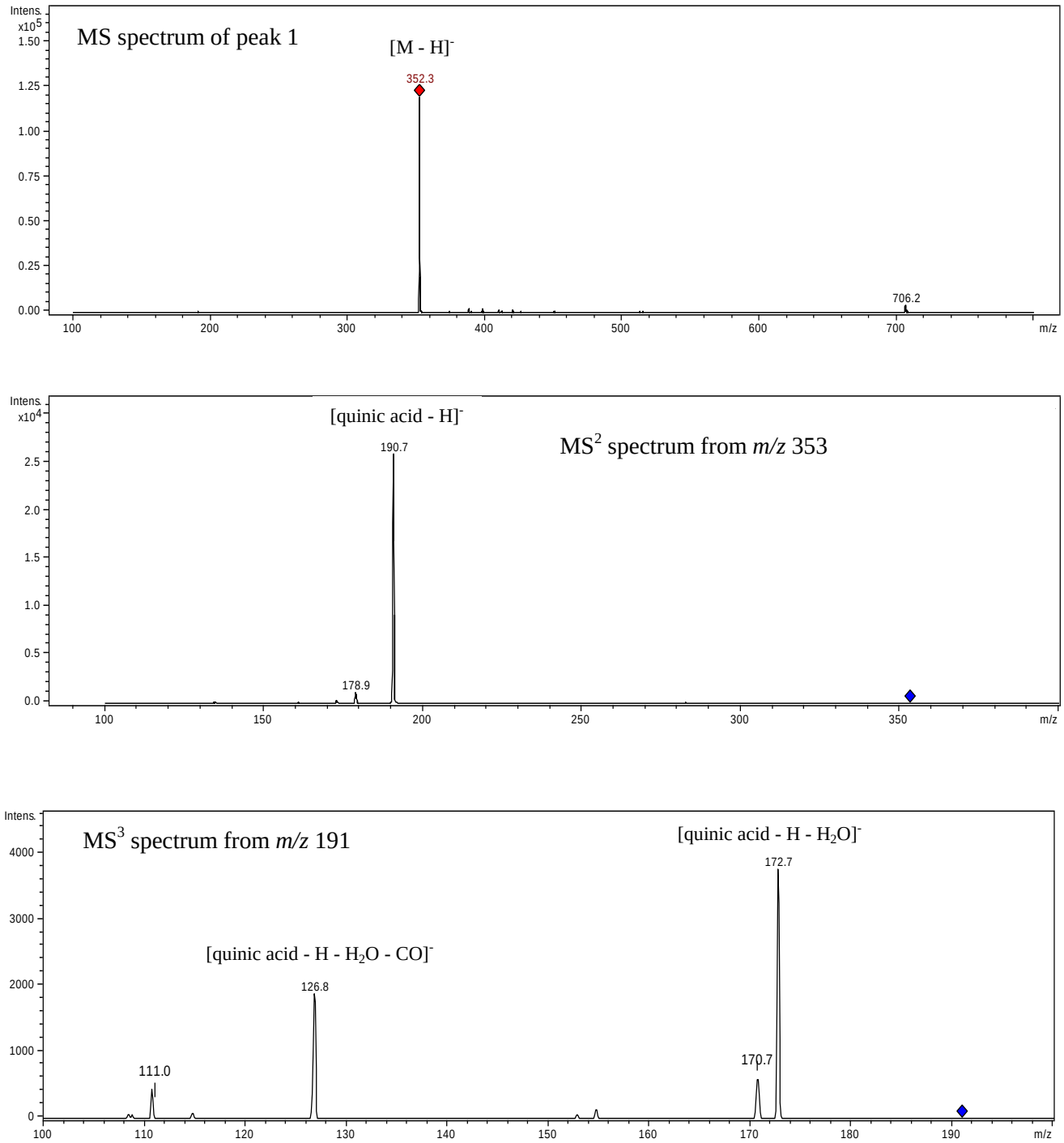

Figure S4. N^1,N^5 or N^5,N^{10}-bis-(dihydrocaffeoyl)spermidine (**peak 2**): MS spectrum, MS^2 spectrum from *m/z* 474 and MS^3 spectrum from *m/z* 457 (positive mode).

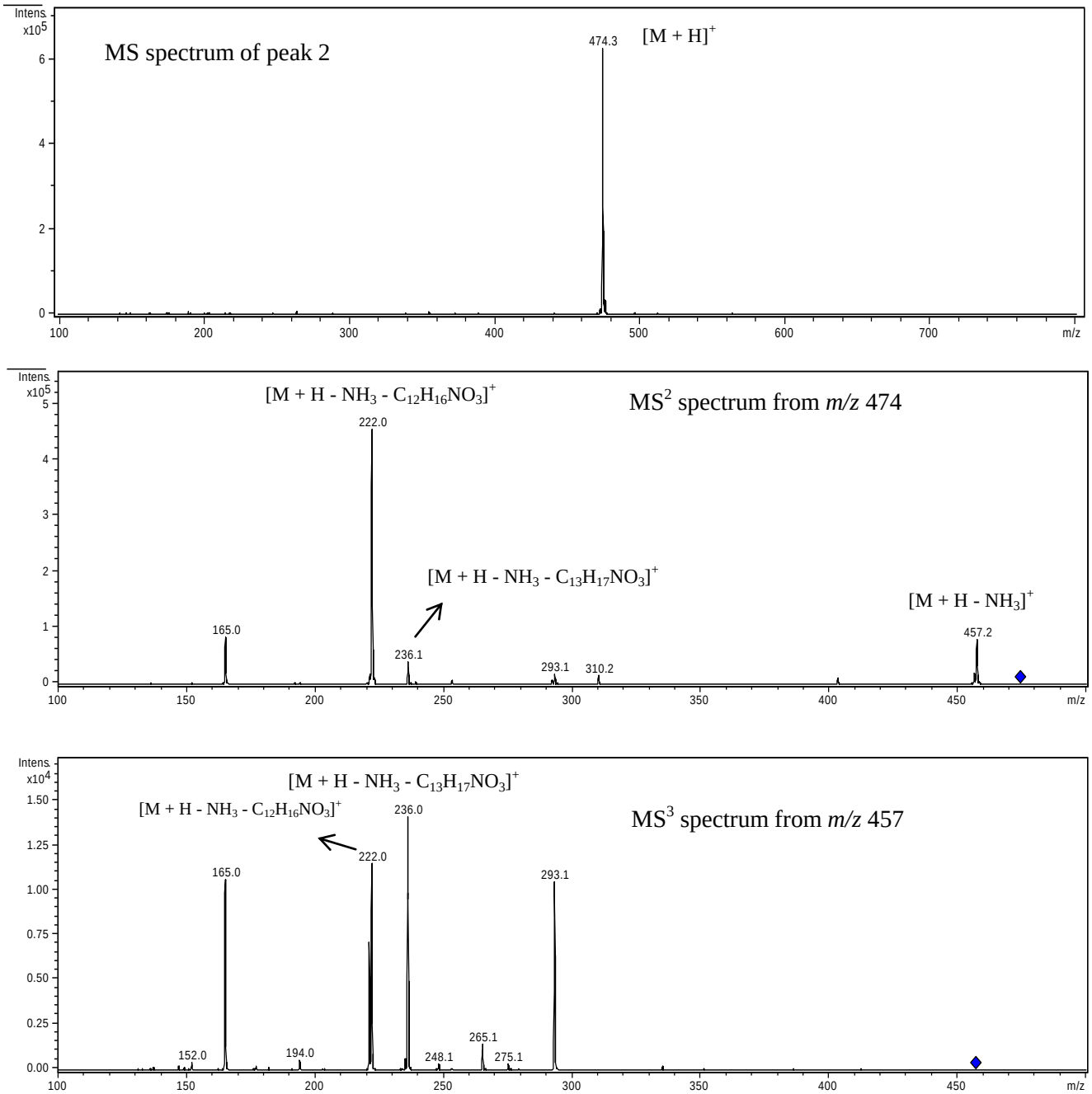

Figure S5. N^1,N^5 or N^5,N^{10}-bis-(dihydrocaffeoyl)spermidine (**peak 2**): MS spectrum, MS^2 spectrum from *m/z* 472 and MS^3 spectrum from *m/z* 308 (negative mode).

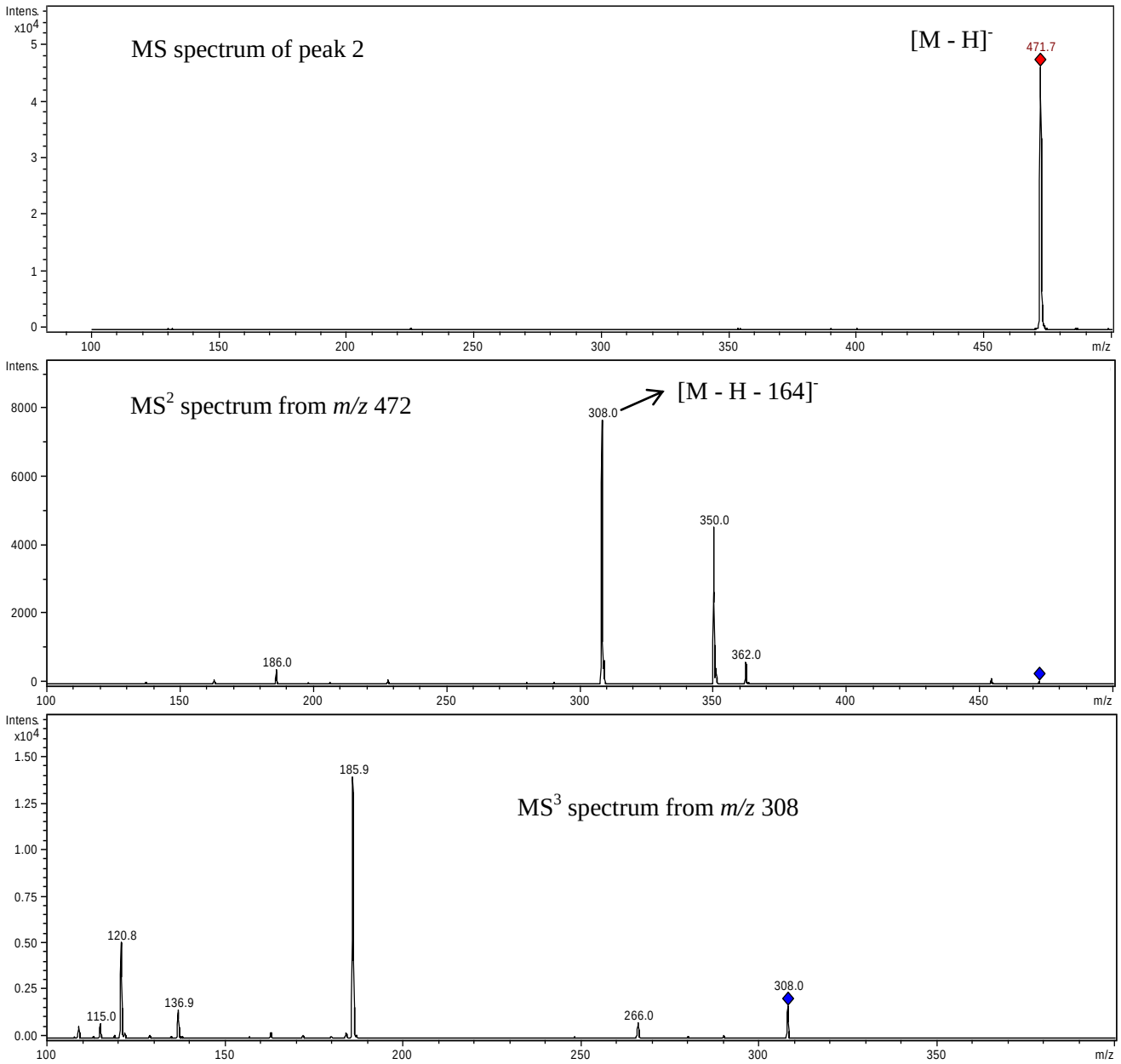

Figure S6. N^1,N^5,N^{10}-tris-(dihydrocaffeoyl)spermidine (**peak 3**): MS spectrum, MS^2 spectrum from *m/z* 638 and MS^3 spectrum from *m/z* 474 (positive mode).

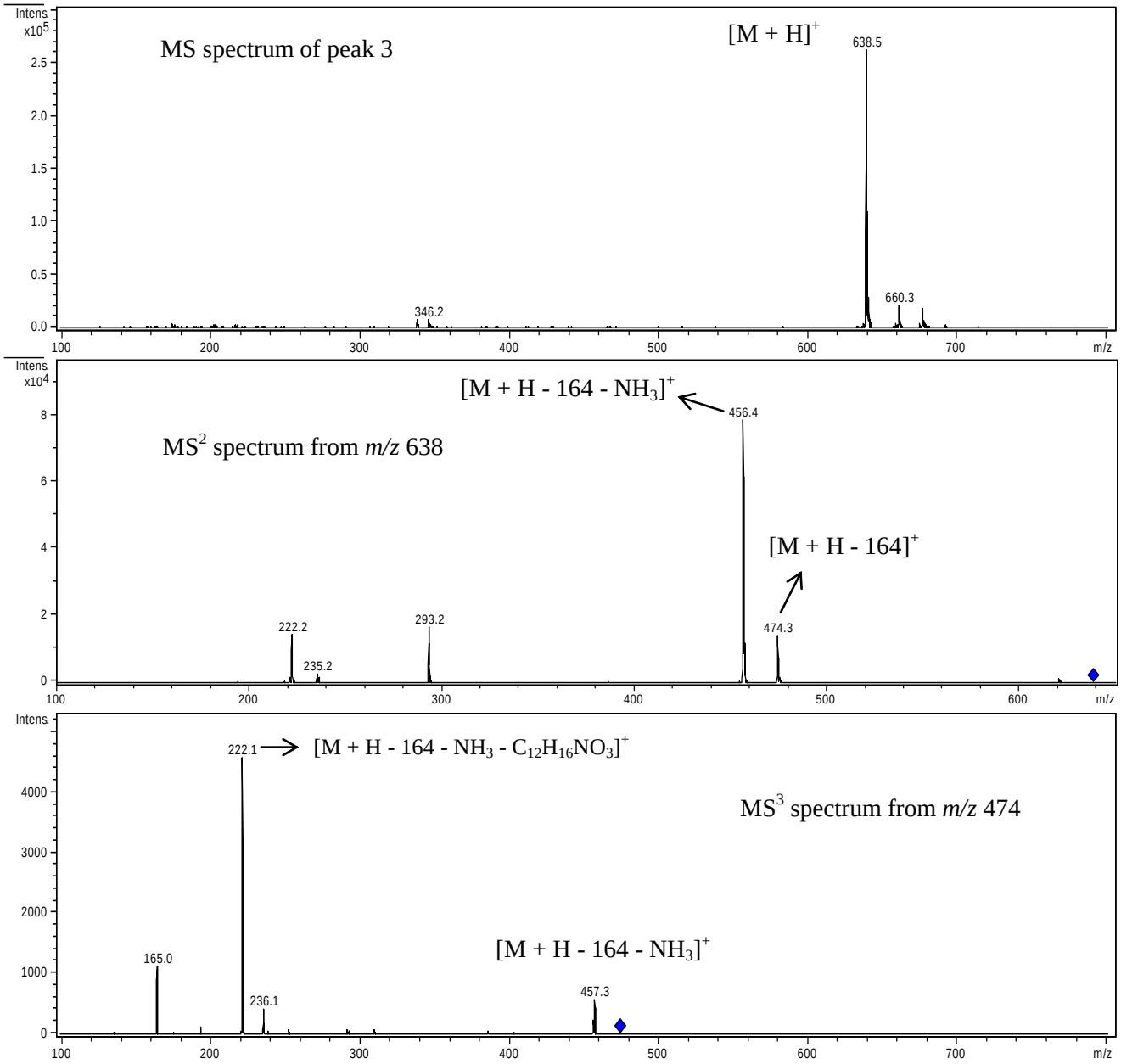

Figure S7. N^1,N^5,N^{10}-tris-(dihydrocaffeoyl)spermidine (**peak 3**): MS spectrum, MS^2 spectrum from *m/z* 636 and MS^3 spectrum from *m/z* 472 (negative mode).

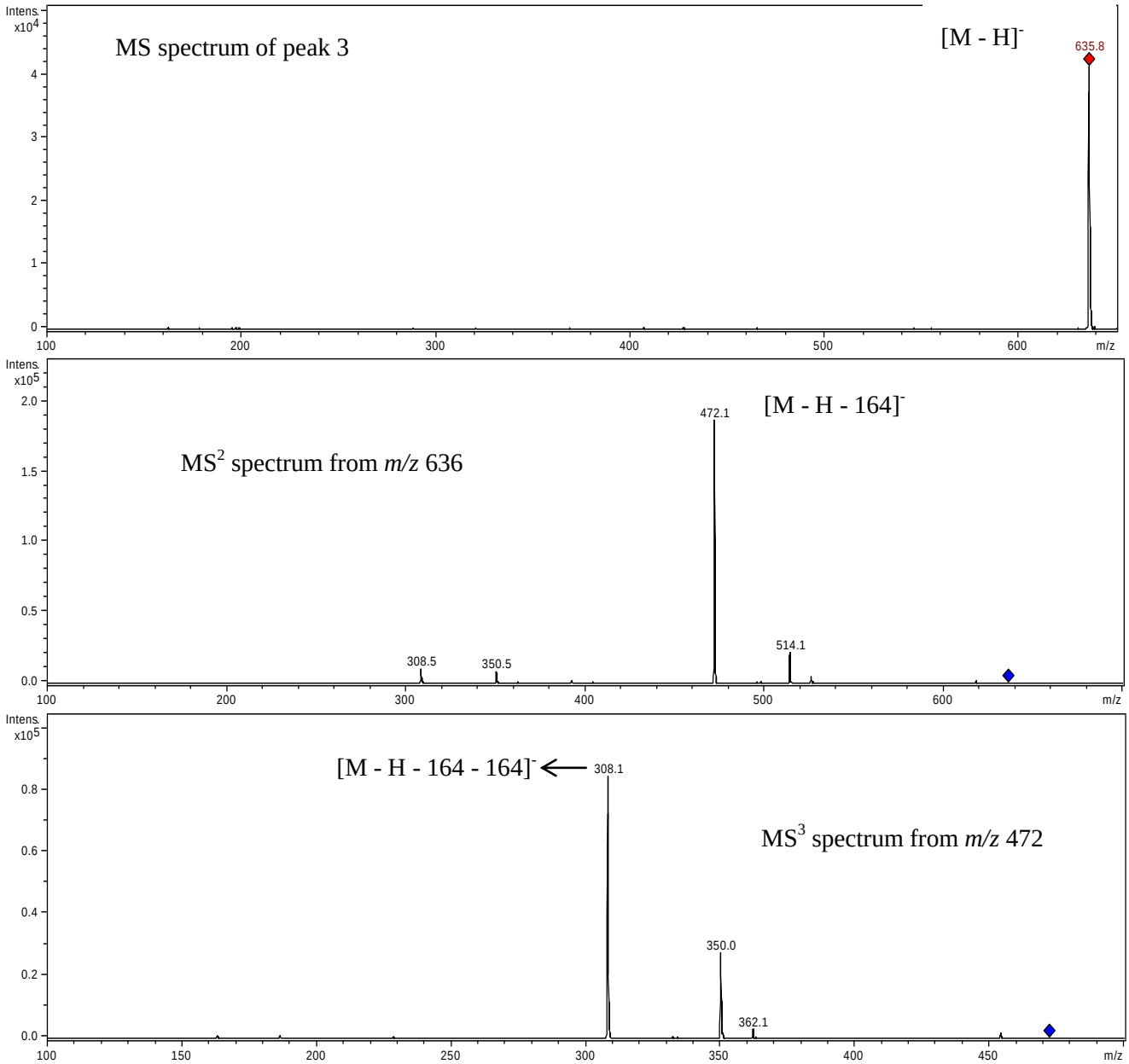

Figure S8. Fluorescence decay of fluorescein induced by peroxyl radicals in the presence of different concentrations of **(a)** hydrophilic extract from mana-cubiu and **(b)** 5-caffeoylquinic acid standard. Legend **(a)**: blank (*filled triangle*), 1.25 μg/mL (*open circle*), 6.25 μg/mL (*open square*), 12.5 μg/mL (*filled square*), 25.0 μg/mL (*filled circle*) and 50.0 μg/mL (*open star*). Legend **(b)** blank (*filled triangle*), 0.35 μg/mL (*open circle*), 0.53 μg/mL (*open square*), 0.70 μg/mL (*filled square*) and 1.40 μg/mL (*filled circle*). **Inset:** linear relationship between **(a)** hydrophilic extract and **(b)** 5-caffeoylquinic acid standard concentrations and net AUC values from the fluorescence decay curves of fluorescein oxidation.

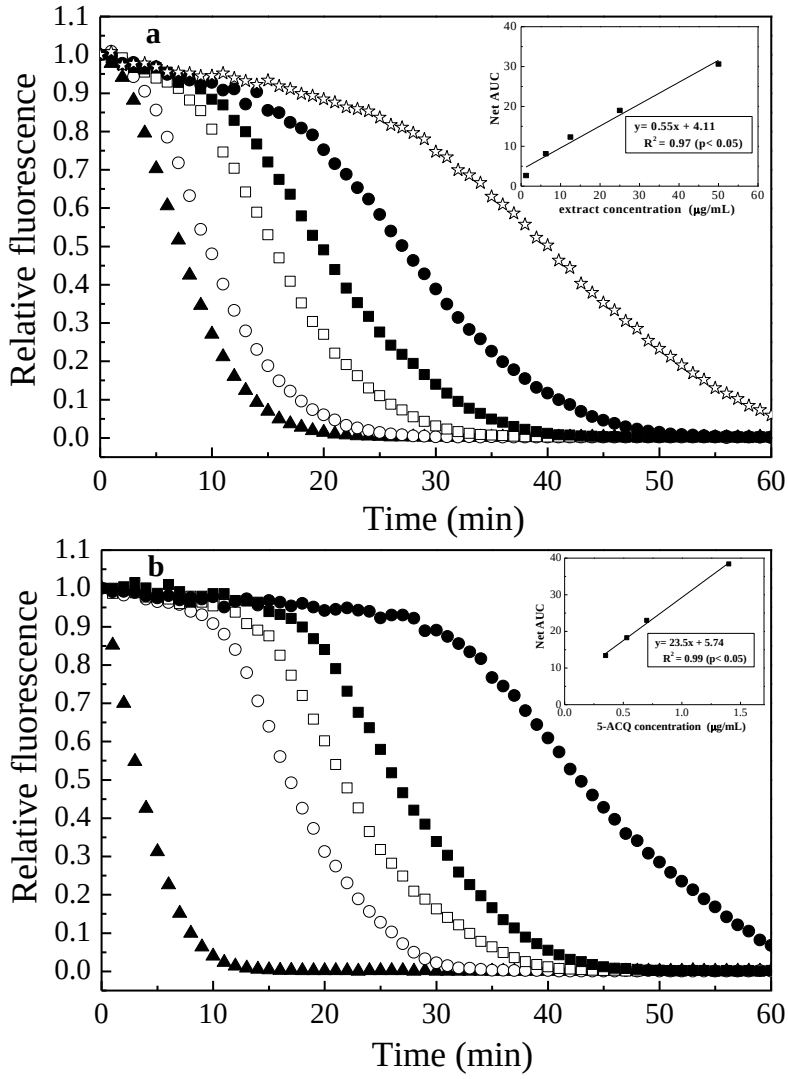
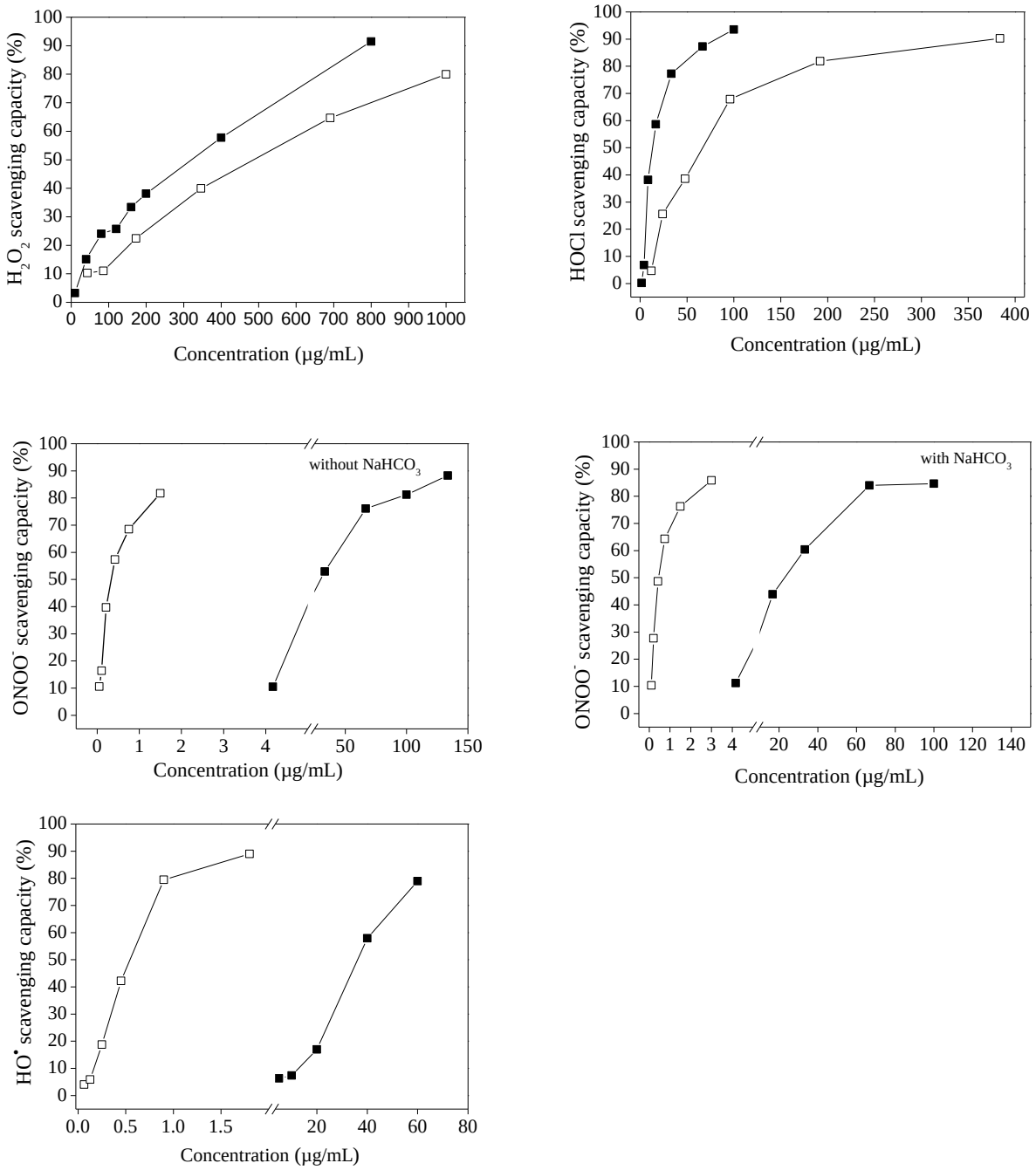
Figure S9. Hydrophilic extract from mana-cubiu or 5-caffeoylquinic acid standard scavenging capacities of hydrogen peroxide (H_2O_2), hypochlorous acid (HOCl), peroxynitrite anion ($ONOO^-$), without and with $NaHCO_3$, and hydroxyl radical ($HO^•$). Legend: hydrophilic extract from mana-cubiu (*filled square*) and 5-caffeoylquinic acid standard (*open square*).