



## Content of copper, lead and cadmium in some local vegetable samples from the south of Thailand

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The analysis of copper, lead and cadmium in some local vegetable samples from Nakhon Si Thammarat (Mueang District) in the South of Thailand such as *Anacardium occidentale*, *Feroniella lucida* (Scheff.) Swingle, *Diplazium esculentum*, *Emilia sonchifolia* (L.) Dc. and *Glochidion Perakense* Hook.f. were evaluated. The Local Vegetable samples were prepared according to the AOAC(2005) and then analyzed by atomic absorption spectrophotometry. The results revealed that copper, lead and cadmium were found in the range of 0.005-0.136, 0.010-0.066 and 0.001-0.021 mg/kg respectively, the percentage recovery were found at 85.30-100.75, 87.26-89.18 and 84.00-85.50 % respectively. The results showed that none of the samples exceeded the standards of the Ministry of Health, which found that standards for contamination of heavy metals in the Ministry of Health (Vol. 98) has defined a copper, lead and cadmium have not exceeded the 20, 10 and 0.3 mg/kg, respectively. The results this research study can be used as database for food safety.

**Keywords:** copper; lead; cadmium; some local vegetable samples