

**ANALYSIS OF *Polygonum minus* HUDS. VOLATILE OIL BY  
COMPREHENSIVE TWO-DIMENSIONAL GAS  
CHROMATOGRAPHY TIME-OF-FLIGHT MASS  
SPECTROMETRY**

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**ABSTRACT**

The essential oil of *Polygonum minus* Huds., a local aromatic plant, was analysed by comprehensive two-dimensional gas chromatography time of flight mass spectrometry (GC×GC–TOF MS). The 48 compounds tentatively identified included 1 ester, 1 furan, 7 alcohols, 9 aldehydes and 30 hydrocarbons. Although previous studies identified the majority components of *P. minus* volatile oil as aldehydes, this study found the most identified volatile components to be from the terpene classes. The results obtained in this study provides information essential for further investigation on the metabolic pathway of secondary metabolites, especially those producing volatile compounds.