Title	Comparison of volatile compounds distributing in 4 species of waterlilies
Author	C. Jirapong, K. Inplub and C. Wongs-Aree
Citation	Book of abstracts, APS2010 & SEAsia2010 & GMS2010, August 2-4, 2010, Radisson Hotel,
	Bangkok, Thailand
Keyword	Volatile compound; waterlily; nutrition

## Abstract

Waterlily as aqueous flowering plants provides a diverse variety of different colours and smells. Little information of the aroma volatiles has been known. In this study, volatile compounds produced from 4 species of Thai waterlily, namely *Nymphaea* 'King of Siam (Dark blue purple-petal)', *Nymphaea carpensis* v. *zanzibariensis* (Red purple-petal), *Nymphaea* 'Mangala Ubol (Orange-yellow petal)' and *Nymphaea* 'Gloriosa (Pink-petal)'. The volatile compounds were analyzed using gas chromatography mass spectrophotometry. Diethyl ether: n-pentane (1:1) was used as solvent to extract the volatiles. *N. capensis* var *zanzibariansis* and N. 'Mangala Ubol' containing higher alcohols and ester of benzyl alcohol, hexadecanoic acid, ethyl ester, eicosanoic acid and phenyl methyl ester, were received in the highest scores of odour from panelists. N. 'Gloriosa' smells least odour due to containing a large number of compounds in alkane such as hexadecane, nonadecane and heneicosane. Some waterlilies can be encouraged to be consumed because of its nutrition such as Gammatocopherol and vitamin e.