Volatile Compounds Related to Attractant of *Platypus quercivorus* (Murayama) from *Quercus crispula*

Hiroyuki TAKEMOTO, Shin-ichiro ITO, Tohru MITSUNAGA Faculty of Bioresources, Mie University, Kamihama 1515, Tsu, Mie, 514-8507, JAPAN Naoto KAMATA Graduate School of Natural Science and Technology, Kanazawa University, Kanazawa, Ishikawa 920-1192, JAPAN Masahide KOBAYASHI Kyoto Prefectural Forestry Experimental Station, Honjo, Tanba, Funai,Kyoto 621-1121, JAPAN

Abstract The mass mortality of oak trees in Japan is expanding due to the vector, *Platypus quercivorus* (Murayama), which bores into the trunks of oaks and other angiosperm trees. We analyzed the volatile compounds emitted from the tissues of the most frequently attacked host tree, *Quercus crispula*. We also investigated relationships between several compounds identified and the attractive responses of the beetle. Results from the bioassays showed that toluene, 3-octanone, anisole and 1-hexadecanal are probably attractant compounds for *P. quercivorus*.