Abstract

In this report a high resolution 2+1 REMPI spectrum of D-limonene is measured around 6.5 eV. The high resolution spectrum is achieved with the generation of a supersonic molecular beam, a time of flight mass detector and a Nd:YAG pumped dye-laser. In the region of interest the parent ion of D-limonene was not observed, but a spectrum was obtained for the carbon fragment. This resulted in a possible spectrum, but further analysis and experiments need to be preformed to conclusively assign the spectrum to D-limonene.