Abstract

Arylspiroborates have some very interesting properties, which include biological activities and the potential anti-tumor activities. The aim of the thesis was to prepare some complexes using mainly phenolic ligands (catchol, pyrogallol, 3-methoxycatechol, 2,3-dihydroxynaphthalene and 4-tert-Butylcatechol) and their detailed characterization using ESI-QqTOF. With some of these prepared complexes collision experiments were performed and based on the results, the fragmentation mechanisms for these substances were proposed.