

## **ABSTRACT**

This bachelor thesis deals with methods of speciation analysis of mercury concentrated to selective and sequential extraction of mercury. The first part contains the basic information about characteristics, sources of pollution, toxicity and cycle of mercury in environment. The following part defined term of speciation and speciation analysis. Next chapters are concentrated to description and characterization appropriate and often used extraction reagents and procedures and schemes of selective and sequential extraction methods of speciation analysis. Specific procedures of SEA are described in this thesis and mentioned are their major advantages nad purphose. The last chapter is devoted to listing methods of instrumentation useful to determination of extractable forms of mercury.