

Content

CHAPTER 1

7

General introduction

CHAPTER 2

27

Performance comparison of three passive samplers for monitoring of polar organic contaminants in treated municipal waste-water

CHAPTER 3

41

Rapid target screening and quantitative analysis of various environmental pollutants

CHAPTER 4

53

Novel nontarget LC-HRMS-based approaches for evaluation of drinking water treatment

CHAPTER 5

73

Identifying organic micropollutants' transformation products from the soil dissipation experiment by non-targeted high-resolution mass spectrometry approach: Can we gain more than transformation product identity?

CHAPTER 5

85

General discussion

87

English summary

97

Czech summary

98

Acknowledgments

99

List of publications

100

Training and supervision plan during study

102

Curriculum vitae

103