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Formation and determination of organohalogen by-products in water - Part II. Sample preparation techniques for analytical approaches

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Highlights

- Second article of a review trio about formation and determination of OXPBs in water
- Sample preparation techniques for OXPBs analysis: overview, advantages and drawbacks
- Sample preservation, organohalogen by-products enrichment and selective extraction

Abstract

There is a crucial need of analytical methods allowing the characterization and/or the quantitation of known and unknown organohalogen by-products (OXPBs) in water. This article is the second one (Part II) of a review trio dedicated to the formation and determination of organohalogen by-products in water; it presents an overview of the sample preparation techniques generally used prior to OXPBs analysis and details their advantages and drawbacks. After a comparison of the water samples generally analyzed (natural water versus deionized water spiked with organic matter), this section deals with sample preservation, OXPBs enrichment and selective extraction.

Keywords: Organohalogen; By-products; Water; Sample preparation; Extraction; Analysis

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