

# Accepted Manuscript

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

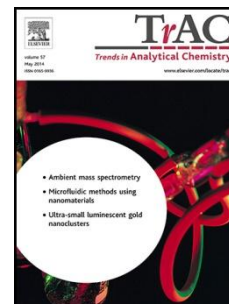
Author: Aziz Kinani, Said Kinani, Stéphane Bouchonnet

PII: S0165-9936(16)30140-6

DOI: <http://dx.doi.org/doi: 10.1016/j.trac.2016.07.006>

Reference: TRAC 14801

To appear in: *Trends in Analytical Chemistry*



Please cite this article as: Aziz Kinani, Said Kinani, Stéphane Bouchonnet, Formation and determination of organohalogen by-products in water - Part II. Sample preparation techniques for analytical approaches, *Trends in Analytical Chemistry* (2016), <http://dx.doi.org/doi: 10.1016/j.trac.2016.07.006>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

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

Aziz Kinani <sup>1,2</sup>, Said Kinani <sup>1</sup>, Stéphane Bouchonnet <sup>\*2</sup>

\* For correspondence

[1] Laboratoire National d'Hydraulique et Environnement (LNHE) – Division Recherche et Développement – Electricité de France (EDF) – 6 Quai de Watier – 78401 Chatou Cedex 01, France – Tel : +33 (0)1 30 87 91 13 – e-mail: said.kinani@edf.fr

[2] LCM, CNRS – École Polytechnique, Université Paris Saclay – Route de Saclay, 91128 Palaiseau, France – Tel : +33 (0)1 69 33 48 05 – e-mail: stephane.bouchonnet@polytechnique.edu

## 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

Download English Version:

<https://daneshyari.com/en/article/5141719>

Download Persian Version:

<https://daneshyari.com/article/5141719>

[Daneshyari.com](https://daneshyari.com)