

AQ-12 Organotins in Seawater					
Year	2021	Number of Rounds / Year	1	Number of Materials	2
Distribution		April (20 laboratories expected)			
Participation fee		€600,=			

Introduction

This study covers the determination of organotin compounds in the seawater test materials.

Test Materials

The seawater for this study is collected from the Eastern Atlantic Ocean and is filtered to remove bacteria and particles. The test materials are spiked, thoroughly mixed and dispensed into 1 litre glass bottles for distribution. Homogeneity of the test materials is assumed, as they are produced in bulk. The test materials are stable for the purposes of the exercise.

Determinands and concentration ranges

The organotin compounds to be determined are given in the table below.

The table also shows:

- The expected concentration range for the determinands in the spiked test materials.
- The constant and proportional error that will be used for assessment of the results.

Where available the AA-EQS (EU-WFD) is given.

Determinand	Unit	Concentration Range		Error		AA-EQS
		Seawater (spiked)	Seawater with SS	Const	Prop	
Tributyltin(TBT)	ng Sn/L	1–200	1–100	0.05	12.5%	0.2
Dibutyltin(DBT)	ng Sn/L	1–50	1–50	0.05	12.5%	0.2
Monobutyltin(MBT)	ng Sn/L	1–20	1–200	0.05	12.5%	0.2
Triphenyltin(TPhT)	ng Sn/L	1–200	1–200	0.05	12.5%	
Diphenyltin(DPhT)	ng Sn/L	1–100	1–100	0.05	12.5%	
Monophenyltin(MPhT)	ng Sn/L	1–50	1–50	0.05	12.5%	

These determinands are not in the scope of the accreditation.