

MS-2 Chlorinated Organics in Sediment					
Year	2021	Number of Rounds / Year	2	Number of Materials	2
Distribution		April, October (25 laboratories expected)			
Participation fee		€625,=			

### Introduction

This study covers the determination of poly chlorinated biphenyls (PCB's), organochlorine pesticides (OCP's) and total organic carbon (TOC) in marine sediment.

### Test Materials

The test materials cover a range of natural sediments from contaminated waters from the North Sea and/or Mediterranean. Each batch of material is prepared in bulk. The level of within and between sample homogeneity for the sediment is determined. All materials show to be homogeneous and stable for the purpose of the test.

### Determinands and Concentration Ranges

The organochlorines to be determined are given in the table below. The table also shows:

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

Determinand	Unit	Concentration Range	Error		AA-EQS
		Sediment	Const	Prop	
PCB18					
PCB28	µg/kg	0.1—100	0.025	12.5%	
<b>PCB31</b>	µg/kg	0.1—100	0.025	12.5%	
PCB44	µg/kg		0.025	12.5%	
PCB47	µg/kg		0.025	12.5%	
PCB49	µg/kg		0.025	12.5%	
<b>PCB52</b>	µg/kg	0.1—500	0.025	12.5%	
PCB66	µg/kg		0.025	12.5%	
<b>PCB101</b>	µg/kg	0.2—300	0.025	12.5%	
PCB105	µg/kg	0.1—50	0.025	12.5%	
PCB110	µg/kg		0.025	12.5%	
<b>PCB118</b>	µg/kg	0.1—200	0.025	12.5%	
PCB128	µg/kg		0.025	12.5%	
PCB138+PCB163	µg/kg	0.2—50	0.025	12.5%	
<b>PCB138</b>	µg/kg	0.2—100	0.025	12.5%	
PCB141	µg/kg		0.025	12.5%	
PCB149	µg/kg		0.025	12.5%	
PCB151	µg/kg		0.025	12.5%	
<b>PCB153</b>	µg/kg	0.2—100	0.025	12.5%	
PCB156	µg/kg	0.05—5	0.025	12.5%	
PCB158	µg/kg		0.025	12.5%	
PCB170	µg/kg		0.025	12.5%	
<b>PCB180</b>	µg/kg	0.1—50	0.025	12.5%	
PCB183	µg/kg		0.025	12.5%	
PCB188	µg/kg		0.025	12.5%	
PCB194	µg/kg		0.025	12.5%	
α-HCH	µg/kg	0.02—1	0.02	12.5%	
β-HCH	µg/kg	0.05—2	0.025	12.5%	
γ-HCH	µg/kg	0.05—2	0.025	12.5%	
δ-HCH	µg/kg	0.05—2	0.025	12.5%	
<b>HCB</b>	µg/kg	0.05—250	0.025	12.5%	
HCBD	µg/kg	0.1—10	0.025	12.5%	
Dieldrin	µg/kg	0.1—10	0.025	12.5%	
pp'-DDD	µg/kg	0.1—25	0.025	12.5%	
pp'-DDE	µg/kg	0.1—20	0.025	12.5%	
op'-DDT	µg/kg	0.02—250	0.025	12.5%	
pp'-DDT	µg/kg	0.1—10	0.025	12.5%	
Transnonachlor	µg/kg	0.01—2	0.025	12.5%	
Heptachlor	µg/kg		0.025	12.5%	
Heptachlor-epoxide	µg/kg		0.025	12.5%	
Emamectin	µg/kg		0.025	12.5%	
Teflubenzuron	µg/kg		0.025	12.5%	
<b>TOC</b>	%	0.2—10	0.02	12.5%	
PN	%		0.02	12.5%	

Only determinands in **bold** are in the scope of the accreditation.