



WEPAL-QUASIMEME

Certificate of Analysis



Halogenated Organics in seawater

REFERENCE MATERIAL

AQ5 sample 121

2026-Aug-13



Certificate of Analysis AQ5 121

General Information

In this report an overview is given of analytical data for this sample collected in our proficiency testing program. The consensus values are calculated using a robust statistical model. With this NDA model, the mean and standard deviation are calculated using all reported data when at least 4 results are left after removal of reported 'lower than' (<) and 0 (= zero) values. No outliers are removed.

This report is divided into two sections: Consensus Values and Indicative Values. The division is made on the reliability of the data. Consensus Values are based on at least 8 results and a maximum relative uncertainty of 6.25%. Indicative Values are based on a maximum relative uncertainty of 35% and a minimum of 4 and maximum of 7 results, or a relative uncertainty greater than 6.25% when there are at least 8 results.

For each measurand, the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation), the uncertainty of the mean (consensus or indicative) value and the relative uncertainty.

Please note: Most WEPAL-QUASIMEME reference materials are found to be stable over the long term (>10 years) for most measurand/matrix combinations. There are a few exceptions known to us as being less stable over the long term. These are organotins in sediment (MS6), ASP in shellfish (BT7), some PAHs and PCBs in sediment (SETOC) and N-NH₄ (as N) & N-NO₃ (as N) in clay soils (ISE).

Sample information

QUASIMEME reference materials cover a range of natural SeaWater species from contaminated waters from the North Sea and/or Mediterranean.

This AQ5 sample 121 of Low salinity seawater with spike solution from North Sea, the Netherlands is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the rounds given in the following table.

Year.Round	Program	Sample Round Id
2026.1	AQ5	QOC118SW



Consensus Values AQ5

Method: PCBs&OCP - AQ5

Element
pp'-DDT

Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
ng/l	131	19.4	14.9	9	128	12.0	8.10	6.19



Indicative Values AQ5

Method: PCBs&OCP - AQ5

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
a-HCH	ng/l	149	38.0	25.4	9	152	28.0	15.8	10.6
g-HCH	ng/l	116	35.1	30.2	9	121	19.0	14.6	12.6
Dieldrin	ng/l	262	99.0	37.7	10	274	38.2	39.1	14.9
pp'-DDE	ng/l	168	41.0	24.5	8	164	21.1	18.1	10.8
pp'-DDD	ng/l	337	103	30.7	10	339	59.1	40.8	12.1
HCB	ng/l	203	61.4	30.2	9	193	56.6	25.6	12.6
Isodrin	ng/l	337	85.9	25.5	6	336	43.0	43.9	13.0
Endrin	ng/l	350	132	37.8	8	372	60.7	58.4	16.7
Aldrin	ng/l	224	106	47.3	10	240	55.1	41.9	18.7
op'-DDT	ng/l	363	59.1	16.3	10	358	32.0	23.4	6.44
b-HCH	ng/l	128	33.8	26.3	9	132	18.4	14.1	11.0
Trifluralin	ng/l	377	72.4	19.2	5	400	45.0	40.5	10.7
Endosulphan-I	ng/l	132	35.7	27.1	4	133	18.5	22.3	16.9
Endosulphan-II	ng/l	124	35.2	28.4	5	120	19.6	19.7	15.9
1-2-4-TCB	ng/l	380	52.1	13.7	5	390	23.0	29.1	7.66
1-3-5-TCB	ng/l	299	39.1	13.1	5	303	22.5	21.9	7.31
1-2-3-TCB	ng/l	379	84.1	22.2	5	390	53.0	47.0	12.4
d-HCH	ng/l	140	12.8	9.2	7	139	7.60	6.04	4.33
Pentachlorobenzene	ng/l	443	289	65.3	7	492	193	137	30.9
PCB28	ng/l	199	73.1	36.8	6	192	41.4	37.3	18.8
PCB52	ng/l	226	46.5	20.6	7	216	44.0	22.0	9.71
PCB101	ng/l	144	28.9	20.0	6	142	21.0	14.7	10.2
PCB105	ng/l	125	5.25	4.2	4	125	2.48	3.28	2.62
PCB118	ng/l	213	59.3	27.8	6	202	30.5	30.3	14.2
PCB138	ng/l	254	89.3	35.2	7	247	49.7	42.2	16.6
PCB153	ng/l	287	102	35.5	6	281	54.3	51.9	18.1
PCB180	ng/l	136	38.8	28.5	6	144	16.5	19.8	14.5
Heptachlor	ng/l	106	26.9	25.5	6	103	17.6	13.7	13.0
Heptachlorepoide	ng/l	157	61.3	39.0	4	153	27.9	38.3	24.4