

QUASIMEME

Quality assurance of information for marine environmental monitoring

Certificate of Analysis



Halogenated Organics in seawater

AQ5 sample 117





Certificate of Analysis AQ5 117

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 determinand, 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 determinand/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) 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 117 of 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 periods given in the following table.

Year.Round	Program	Sample
		Round Id
2025.1	AQ5	QOC114SW







Method: PCBs&OCP - AQ5

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Dieldrin	ng/l	7.94	1.04	13.1	8	8.00	0.710	0.461	5.81
HCB	ng/l	4.43	0.572	12.9	8	4.47	0.272	0.253	5.71
Aldrin	ng/l	5.57	0.637	11.4	8	5.55	0.312	0.282	5.05



Indicative Values AQ5



Method: PCBs&OCP - AQ5

Wethod: PCBS&UCP - AQ3									
Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
a-HCH	ng/l	11.3	2.07	18.3	8	11.0	1.09	0.913	8.08
g-HCH	ng/l	13.6	2.65	19.5	8	13.3	1.67	1.17	8.60
pp'-DDE	ng/l	6.08	1.07	17.6	9	6.29	0.690	0.445	7.32
pp'-DDT	ng/l	13.0	2.93	22.6	9	13.0	1.63	1.22	9.43
pp'-DDD	ng/l	4.73	1.75	36.9	8	4.88	1.20	0.772	16.3
Isodrin	ng/l	9.28	0.898	9.7	6	9.42	0.609	0.458	4.94
Endrin	ng/l	7.33	1.47	20.0	8	7.45	0.947	0.648	8.84
op'-DDT	ng/l	13.1	2.60	19.9	7	13.3	1.30	1.23	9.40
b-HCH	ng/l	6.23	1.50	24.1	8	6.14	0.698	0.664	10.6
Trifluralin	ng/l	4.85	0.962	19.8	5	4.74	0.420	0.538	11.1
Endosulphan-l	ng/l	4.73	0.386	8.2	4	4.68	0.179	0.242	5.11
Endosulphan-II	ng/l	7.50	2.29	30.6	4	7.43	1.06	1.43	19.1
d-HCH	ng/l	2.69	0.174	6.5	7	2.70	0.076	0.082	3.05
Pentachlorobenzene	ng/l	9.89	0.489	4.9	5	9.98	0.280	0.273	2.76
PCB28	ng/l	13.1	3.41	26.0	7	13.2	1.99	1.61	12.3
PCB52	ng/l	6.26	2.18	34.8	8	6.28	1.08	0.962	15.4
PCB101	ng/l	5.49	2.09	38.1	7	5.00	1.10	0.989	18.0
PCB105	ng/l	10.5	0.936	8.9	5	10.2	0.600	0.523	5.00
PCB118	ng/l	17.3	4.02	23.2	8	17.7	2.45	1.78	10.3
PCB138	ng/l	8.50	2.24	26.4	8	9.05	1.53	0.992	11.7
PCB153	ng/l	10.3	3.22	31.4	8	10.4	1.85	1.42	13.9
PCB180	ng/l	3.60	1.69	46.9	7	3.70	1.01	0.799	22.2
Heptachlor	ng/l	5.65	2.15	38.1	6	5.63	0.904	1.10	19.5