QUASIMEME

Quality assurance of information for marine environmental monitoring

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Certificate of Analysis

Triazines and organophosphorus compounds in seawater

REFERENCE MATERIAL

AQ8 sample 128

WAGENINGEN
UNIVERSITY & RESEARCH

Certificate of Analysis AQ8 128

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-NH_4 (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 AQ8 sample 128 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 periods given in the following table.

Year.Round	Program	Sample Round Id
2025.1	AQ8	QTP120SW

Consensus Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Simazine	ng/l	948	58.5	6.2	9	950	25.0	24.4	2.57
Chlorpyrifos	ng/l	919	124	13.5	8	913	50.0	55.0	5.98

Indicative Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Atrazine	ng/l	348	93.6	26.9	10	340	44.1	37.0	10.6
Azinphos-methyl	ng/l	156	35.5	22.7	4	164	18.7	22.2	14.2
Azinphos-ethyl	ng/l	182	39.2	21.5	4	189	19.7	24.5	13.4
Malathion	ng/l	520	207	39.8	8	511	131	91.4	17.6
Parathion-ethyl	ng/l	462	75.2	16.3	5	450	54.8	42.0	9.10
Parathion-methyl	ng/l	635	192	30.3	6	613	122	98.2	15.5
Fenitrothion	ng/l	594	191	32.2	5	560	112	107	18.0
Dichlorvos	ng/l	590	178	30.2	7	580	70.0	84.3	14.3
Chlorfenvinphos	ng/l	528	172	32.5	8	528	99.2	75.9	14.4
Diazinon	ng/l	636	359	56.4	7	616	116	170	26.7
Dimethoate	ng/l	962	411	42.7	6	955	297	210	21.8
Irgarol-1051	ng/l	365	113	30.9	6	362	87.1	57.6	15.8
Atrazine-desethyl	ng/l	340	35.9	10.6	5	330	14.0	20.1	5.91
Terbuthylazine	ng/l	255	51.8	20.3	6	254	25.0	26.4	10.3
Diuron	ng/l	1259	322	25.6	9	1200	206	134	10.7
Isoproturon	ng/l	343	98.3	28.7	9	350	60.0	41.0	11.9
Alachlor	ng/l	788	64.5	8.2	7	775	19.0	30.5	3.86
Thiamethoxam	ng/l	523	187	35.7	5	556	107	104	19.9
Thiacloprid	ng/l	476	193	40.5	5	494	86.0	108	22.7
Terbutryn	ng/l	396	97.5	24.6	6	390	87.4	49.7	12.6
Quinoxyfen	ng/l	458	74.6	16.3	5	443	24.6	41.7	9.12
Imidacloprid	ng/l	386	139	36.1	5	412	78.0	77.9	20.2
Cypermethrin	ng/l	188	17.4	9.2	5	195	8.35	9.73	5.17
Chlotianidin	ng/l	271	55.1	20.3	5	269	34.6	30.8	11.4
Bifenox	ng/l	243	28.5	11.8	5	252	17.4	15.9	6.57
Aclonifen	ng/l	806	234	29.1	6	815	108	120	14.8