Amount of substance, sediments, soils, ores and particulates, Russian Federation

VNIIM (D.I. Mendeleyev Institute for Metrology, Rostekhregulirovaniye of Russia)

For 'Uncertainty convention 1', the expanded uncertainty range spans from the smallest numerical value of the uncertainty to the largest numerical value of the uncertainty found within the quantity range. For 'Uncertainty convention 2', the expanded uncertainty range is expressed as the uncertainty of the smallest value of the quantity to the uncertainty of the largest value of the quantity.

NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Mechanism(s) for Measurement Service Delivery	Uncertainty convention	Comments
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?			
13.1-org01	Sediments	sediment	PCB 28	Mass fraction	0.05	5	mg/kg	5	15	%	2	95%	Yes	Calibration	Uncertainty convention 1	
13.1-org02	Sediments	sediment	PCB 101	Mass fraction	0.05	5	mg/kg	5	40	%	2	95%	Yes	Calibration	Uncertainty convention 1	
13.1-org03	Sediments	sediment	PCB 153	Mass fraction	0.05	5	mg/kg	5	15	%	2	95%	Yes	Calibration	Uncertainty convention 1	
13.1-01	Sediments	sediment	cadmium	Mass fraction	0.5	5	µg/g	7	14	%	2	95%	Yes	Calibration	Uncertainty convention 1	
13.1-02	Sediments	sediment	lead	Mass fraction	10	100	µg/g	5	6	%	2	95%	Yes	Calibration	Uncertainty convention 1	
13.5-01	Other than sediments, soils, ores, and particulates	clay	total silicon as silicon dioxide	Mass fraction	60.0	700	mg/g	2	0.8	%	2	95%	Yes	Calibration	Uncertainty convention 2	Approved on 19 July 2010
13.5-02	Other than sediments, soils, ores, and particulates	clay	total calcium as calcium oxide	Mass fraction	2.0	100	mg/g	10	6.0	%	2	95%	Yes	Calibration	Uncertainty convention 2	Approved on 19 July 2010
13.5-03	Other than sediments, soils, ores, and particulates	clay	total iron as iron (III) oxide	Mass fraction	5.0	200	mg/g	7.0	6.0	%	2	95%	Yes	Calibration	Uncertainty convention 2	Approved on 19 July 2010

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NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Mechanism(s) for Measurement Service Delivery	Uncertainty convention	Comments
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?			
13.5-04	Other than sediments, soils, ores, and particulates	clay	total aluminum as aluminum oxide	Mass fraction	15.0	400	mg/g	5.0	3.0	%	2	95%	Yes	Calibration	Uncertainty convention 2	Approved on 19 July 2010