

Electricity and Magnetism

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Ukraine, NSC IM (National Scientific Centre "Institute of Metrology")

No	NDETU / DETU	Number of CMCs	KCDB CMC ID	Quantity	Instrument or Artifact	Method of Measurement	Parameters	Measurand	Uncertainty	Uncertainty Equation	Uncertainty Table	Approval date	NMI Service Identifier
1	NDETU EM-04-2021	1	EURAMET-EM-UA-00000OQ1-1	Signal and pulse characteristics: modulation, FM	Signal generator, modulation meter	Comparison with comparator	Carrier frequency: 0.1 MHz to 10 GHz Modulation frequency: 0.02 kHz to 200 kHz	[100.0 , 1000000.0] Hz	[10.0 , 400.0] Hz (Absolute)	$0.0025df + 10$ (df frequency deviation) The uncertainty is expressed in Hz		2010-04-28	NSC "Institute of Metrology"/14
2	NDETU EM-06-2021	3	EURAMET-EM-UA-00000OPK-1	DC resistance standards and sources: high values	Fixed resistor	Bridge by substitution, Hamon transfer	Temperature: 19.5 °C to 20.5 °C	[1.0E7 , 1.0E9] Ω	[10.0 , 60.0] μΩ/Ω (Relative)		MX-342	2010-04-28	NSC "Institute of Metrology"/6
3			EURAMET-EM-UA-00000OPL-1	DC resistance standards and sources: low values	Fixed resistor	Bridge by substitution and resistance ratio set	Temperature: 19.5 °C to 20.5 °C	[0.001 , 0.1] Ω	[2.0 , 3.0] μΩ/Ω (Relative)		MX-340	2010-04-28	NSC "Institute of Metrology"/4
4			EURAMET-EM-UA-00000OPM-1	DC resistance standards and sources: intermediate values	Fixed resistor	Bridge by substitution, Hamon transfer	Temperature: 19.5 °C to 20.5 °C	[1.0 , 1000000.0] Ω	[200.0 , 1600.0] nΩ/Ω (Relative)		MX-341	2010-04-28	NSC "Institute of Metrology"/5
5	DETU 08-01-96	1	EURAMET-EM-UA-00000OPN-1	Magnetic fields below 50 kHz: DC magnetic flux density	Magnetic inductance meter	Nuclear magnetic resonance		[0.05 , 2.0] T	4.0E-6 T/T (Relative)			2010-04-28	NSC "Institute of Metrology"/7
6	DETU 09-01-96	1	EURAMET-EM-UA-00000OQ2-1	Signal and pulse characteristics: distortion and harmonic content	Reference standard, signal generator, distortion meter	Direct comparison, direct measurement	Frequency: 0.01 kHz to 200 kHz	[0.003 , 100.0] %	[0.003 , 0.3] % (Absolute)	0.01 K _{ii} (K _{ii} coefficient of harmonic content) The uncertainty is expressed in %		2010-04-28	NSC "Institute of Metrology"/15
7	DETU 09-02-96	1	EURAMET-EM-UA-00000OQ0-1	Signal and pulse characteristics: modulation, AM	Signal generator, modulation meter	Comparison with comparator, direct measurement	Carrier frequency: 0.01 MHz to 500 MHz Modulation frequency: 0.02 kHz to 200 kHz	[0.1 , 100.0] %	[0.05 , 0.2] % (Absolute)	0.002M + 0.05 (M AM coefficient) The uncertainty is expressed in %		2010-04-28	NSC "Institute of Metrology"/12
8	DETU 09-04-96	2	EURAMET-EM-UA-00000OPQ-1	Radio frequency power: absolute power in waveguide	Power meter, power source	Direct comparison, comparison with comparator	Frequency: 37.5 GHz to 178.6 GHz	[0.001 , 0.01] W	[0.011 , 0.015] W/W (Relative)		MX-343	2010-04-28	NSC "Institute of Metrology"/10
9			EURAMET-EM-UA-00000OPR-1	Radio frequency power: calibration factor and effective efficiency in waveguide	Thermistor, barretter	Direct comparison, comparison with comparator	Frequency: 37.5 GHz to 178.6 GHz	[0.6 , 1.0] (dimensionless)	[0.011 , 0.015] W/W (Relative)		MX-344	2010-04-28	NSC "Institute of Metrology"/11
10	DETU 09-05-04	8	EURAMET-EM-UA-00000OPS-1	RF voltage and current: RF-DC difference	Thermal voltage converter	Comparison with reference	Frequency: 30 MHz to 100 MHz	[0.1 , 3.0] V	[1.0 , 5.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/18
11			EURAMET-EM-UA-00000OPT-1	RF voltage and current: RF-DC difference	Thermal voltage converter	Comparison with reference	Frequency: 100 MHz to 300 MHz	[0.1 , 3.0] V	[2.0 , 10.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/19
12			EURAMET-EM-UA-00000OPU-1	RF voltage and current: RF-DC difference	Thermal voltage converter	Comparison with reference	Frequency: 300 MHz to 600 MHz	[0.1 , 3.0] V	[3.0 , 12.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/20
13			EURAMET-EM-UA-00000OPV-1	RF voltage and current: RF-DC difference	Thermal voltage converter	Comparison with reference	Frequency: 600 MHz to 1000 MHz	[0.1 , 3.0] V	[4.0 , 16.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/21
14			EURAMET-EM-UA-00000OPW-1	RF voltage: meters	RF voltmeter	Direct measurement	Frequency: 30 MHz to 100 MHz	[0.1 , 3.0] V	[2.0 , 6.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/22
15			EURAMET-EM-UA-00000OPX-1	RF voltage: meters	RF voltmeter	Direct measurement	Frequency: 100 MHz to 300 MHz	[0.1 , 3.0] V	[2.0 , 12.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/23

16	DETU 09-06-05	2	EURAMET-EM-UA-00000OPY-1	RF voltage: meters	RF voltmeter	Direct measurement	Frequency: 300 MHz to 600 MHz	[0.1 , 3.0] V	[3.0 , 15.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/24
17			EURAMET-EM-UA-00000OPZ-1	RF voltage: meters	RF voltmeter	Direct measurement	Frequency: 600 MHz to 1000 MHz	[0.1 , 3.0] V	[4.0 , 20.0] mV/V (Relative)			2010-04-28	NSC "Institute of Metrology"/25
18			EURAMET-EM-UA-00000OPO-1	Radio frequency power: absolute power on coaxials	Power meter, power source	Direct comparison, comparison with comparator	Frequency: 0.03 GHz to 18.0 GHz Connector type: III GOST R13317	[0.001 , 0.01] W	0.011 W/W (Relative)			2010-04-28	NSC "Institute of Metrology"/8
19			EURAMET-EM-UA-00000OPP-1	Radio frequency power: calibration factor and effective efficiency on coaxials	Thermistor, barretter	Direct comparison, comparison with comparator	Frequency: 0.03 GHz to 18.0 GHz Connector type: III GOST R13317	[0.8 , 1.0] (dimensionless)	0.011 W/W (Relative)			2010-04-28	NSC "Institute of Metrology"/9