

Time and Frequency, Thailand, NIMT (National Institute of Metrology (Thailand))



Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Comments	NMI Service Identifier
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Frequency	Local frequency standard	Phase comparison	5	5	MHz	Amplitude	> 0.5 Vp-p	1.0E-13		2	95%	Yes	Influence of DUT performance excluded. Approved on 18 November 2009	09080-10201
						Sample time	10 s							
						Number of samples	25920							
Frequency	Local frequency standard	Phase comparison	10	10	MHz	Amplitude	> 0.5 Vp-p	1.0E-13		2	95%	Yes	Influence of DUT performance excluded. Approved on 18 November 2009	09080-10201
						Sample time	10 s							
						Number of samples	25920							
Frequency	General frequency source	Direct frequency measurement	1	1000	Hz	Amplitude	> 0.5 Vp-p	8.0E-05 to 3.6E-09		2	95%	Yes	Influence of DUT performance excluded. Approved on 18 November 2009	09080-10201
						Gate time	10 s							
						Number of measurements	1000							

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Frequency	General frequency source	Direct frequency measurement	1	10	kHz	Amplitude	> 0.5 Vp-p	1.2E-10		2	95%	Yes	Influence of DUT performance excluded. Approved on 18 November 2009	09080-10201
						Gate time	10 s							
						Number of measurements	1000							
Frequency	General frequency source	Direct frequency measurement	0.01	225	MHz	Amplitude	> 0.5 Vp-p	8.6E-12		2	95%	Yes	Influence of DUT performance excluded. Approved on 18 November 2009	09080-10201
						Gate time	10 s							
						Number of measurements	1000							
Time interval	Time difference source	Time interval measurement	1E-07	10000	s	Amplitude	> 0.5 Vp-p	2.0	ns	2	95%	No	Influence of DUT performance excluded. Approved on 18 November 2009	09080-10201
Frequency	Remote frequency standard	Remote frequency measurement against GPS common-view	5	5	MHz	Averaging time	1 day	2.1E-13	Hz/Hz	2	95%	Yes	DUT effects excluded. Approved on 22 August 2016	09080-30102
						Baseline length from NIMT	< 1000 km							

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Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Frequency	Remote frequency standard	Remote frequency measurement against GPS common-view	10	10	MHz	Averaging time	1 day	2.1E-13	Hz/Hz	2	95%	Yes	DUT effects excluded. Approved on 22 August 2016	09080-30102
						Baseline length from NIMT	< 1000 km							