

Reference	ESI	Calibration date	July 04 2019
Ref P/N	SR104	Ambient Temperature	23.82 °C
Serial	HLK1	Relative Humidity	24.89 %
ID Number	XPR1	Pressure	1003.14 hPa
Notes	Test 4W, TRUEOHM, DEL1, CHA/CHB spade cables		
		Test type	Automatic ratio

Reference standard	Mfg	Model	Options	Serial / Unc	CEID	Calibration date	Due date
10KR STD	ESI	SR104	9999.9995 KΩ	G202088930104	E190342A	06/06/2019	06/06/2020
DMM	HP	3458A	001,X02	2823A13345	XD3	06/16/2019	12/16/2019

xDevs.com certifies that this calibration used standards whose accuracies are traceable to the SI, through National Measurement Laboratory. Actual measurement uncertainty available upon request was calculated using the expanded method and is expressed in values at approximately the 95% confidence level using a coverage factor of K= 2.

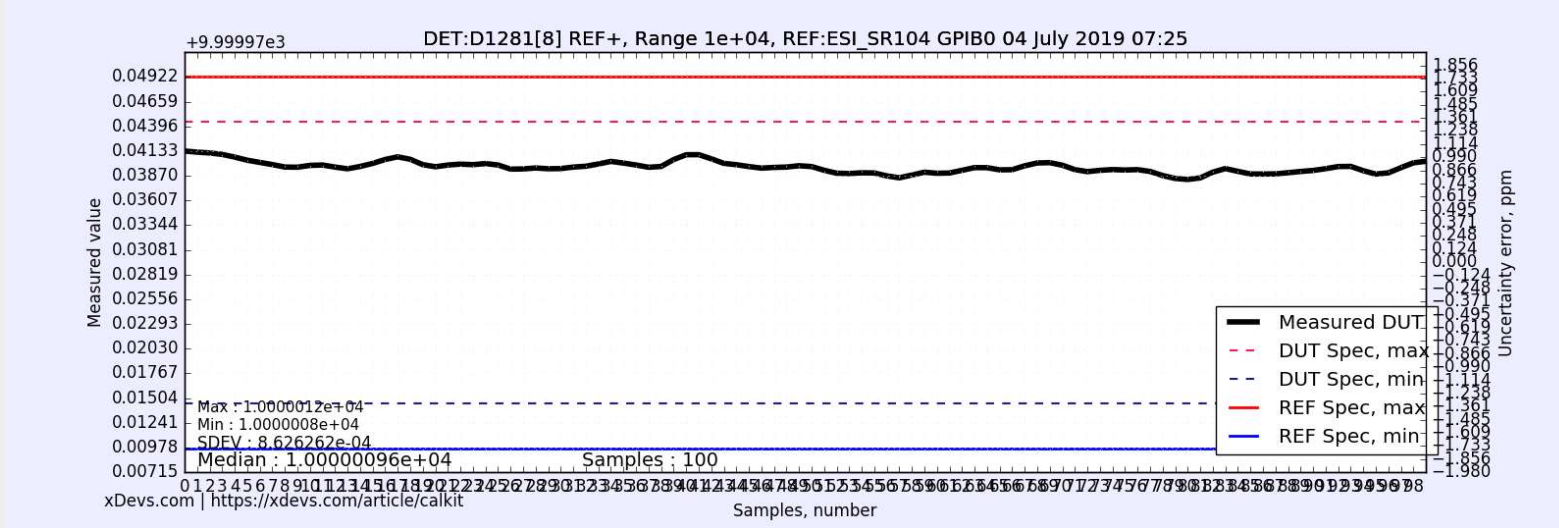
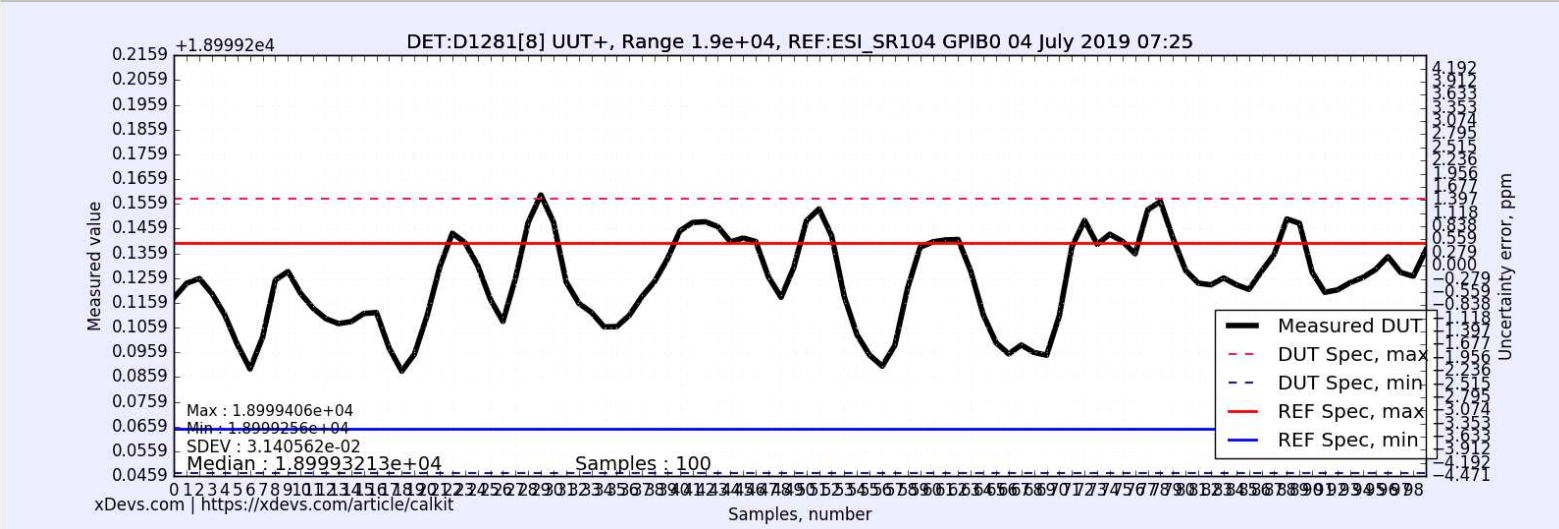
Certificate statements are based on test results within specified limits without reduction of the uncertainty of the test and/or measurement. The test and measurement data here relate only to the item tested and/or measured. Unit acceptance of failure includes uncertainty data compilation. Calibration due date that appears on the Certificate of Calibration and labels are determined by the customer and does not imply conformance to a standard.

UUT output transferred by manual ratiometric measurement with reference standard. Fixed range is used on the Datron 1281 detector. The following test use 10 minute transfer specification with ESI SR104 output source as reference. Gain verified for stability ±0.05 ppm over the test period. Detector DC voltage offset is DUT is nulled prior to the measurement.

Configuration : Battery power STD, NPLC100, NDIG8, Guard is open.

	Measurement	Unit	Uncertainty	Standard Deviation	DUT Spec / Δ	Degree of freedom / Notes
Transfer reference output	9999.9995	Ω	±0.160 ppm			
Reference measured output (+)	10000.0094	Ω	±0.500 ppm	σ = 8.1018e+02 μΩ	Δ = 0.990 ppm	100
Reference calculated +/-	10000.0094	Ω	±0.500 ppm		Δ = 0.990 ppm	
Detector zero offset	0.0000	Ω		σ = 1.0000e-03 μΩ		
UUT measured output (+)	18999.3213	Ω	±0.311 ppm	σ = 3.2135e+04 μΩ		100
Ratio positive polarity	1.89993034		±0.811 ppm			Inf
UUT calculated output (+)	18999.3025	Ω	±0.971 ppm		Δ = 0.000 ppm	
UUT calculated EMF (Linear)	18999.3025	Ω	±0.971 ppm		0.1%	In spec
UUT calculated EMF (RSS)	18999.3025	Ω	±0.826 ppm		0.1%	In spec

Statistics image data



Test procedure : \$!d: xfer_dcv.py | Rev 1460 | 2019/07/04 05:04:33 tin_fpga \$

Lab temperature maintained +23°C ±1°C

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