

Production Test for Device

Tango

Serial Number: #0001179

Microphone Capsule: 11641

Preamplifier: #20087

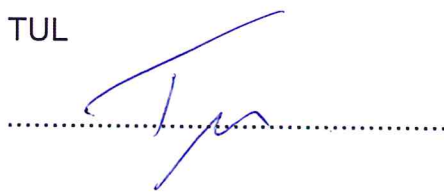
This device was tested according to IEC 61672-1:2013 and
the internal test specifications of SINUS Messtechnik GmbH.

Date: 06-Jan-2022

Recommended Interval: 24 months

Next Manufacturer Test: 06-Jan-2024

Operator: TUL

Signature: 

Summary

The results of the testing procedure can be found in the table below. Testing equipment:

Generator: DS360, StanfordResearchSystems (serial number: 33965)
Calibration certificate (4103120) valid until: 23-Mar-2023
Reference value for calibration to device: 94 dB at 1000 Hz

Software: Testing program version: 1.0.9.0
Device software version: M907-Tango V1.40 (15.03.2012)

The serial number of the microphone capsule is 11641.
The serial number of the microphone preamplifier is #20087.

All measured data can be ordered in XML file format for an additional price.

The following frequency weighting tests were performed:

Nominal Amplitude (dB)	Start Time	Result
100,0	16:17:58	OK

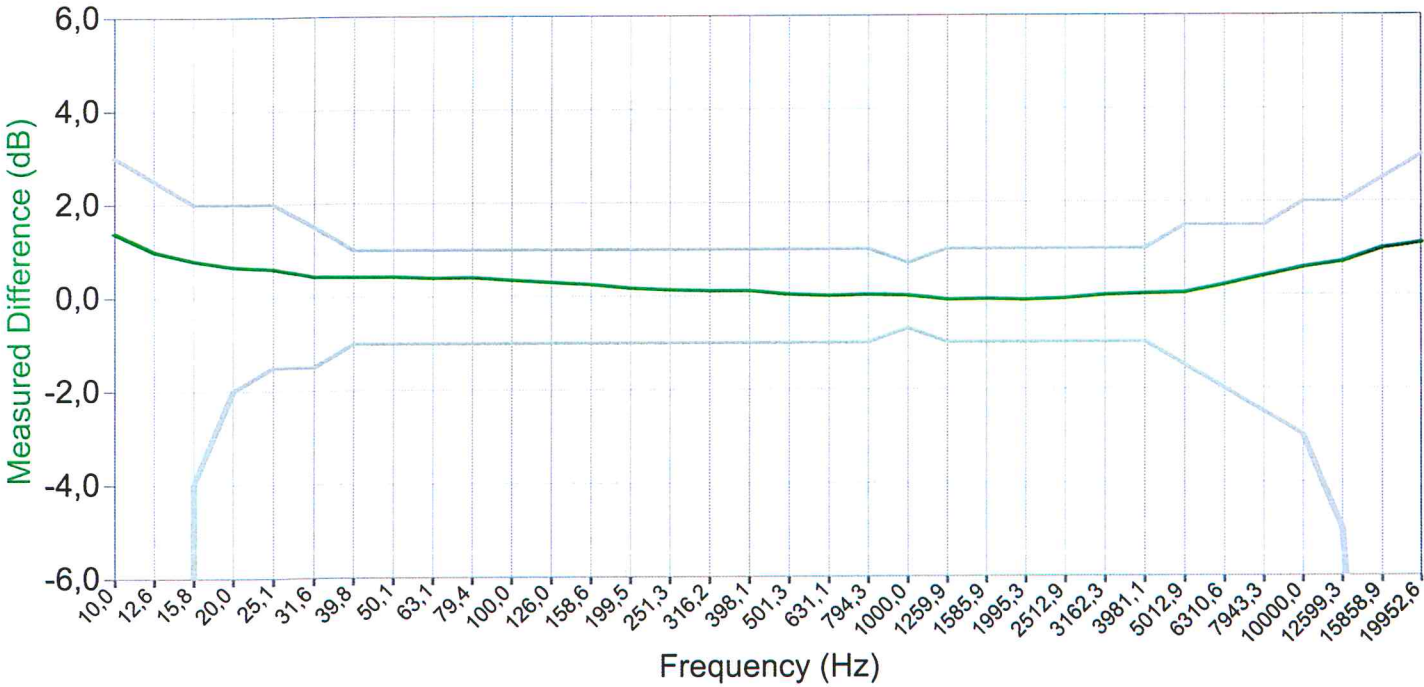
The following linearity tests were performed:

Frequency (Hz)	Start Time	Result
31,6	16:06:03	OK
1000,0	16:09:59	OK
12589,3	16:13:55	OK

Frequency Response Test according to IEC 61672-1:2013 passed!

Frequency (Hz)	Measurement Result	Weighting A	Value LAF	Difference Δ LAF	Limit	
					Lower	Upper
10,0	OK	-70,4	31,0	1,4	-inf	3,0
12,6	OK	-63,4	37,6	1,0	-inf	2,5
15,8	OK	-56,7	44,1	0,8	-4,0	2,0
20,0	OK	-50,5	50,2	0,7	-2,0	2,0
25,1	OK	-44,7	55,9	0,6	-1,5	2,0
31,6	OK	-39,4	61,0	0,4	-1,5	1,5
39,8	OK	-34,6	65,8	0,4	-1,0	1,0
50,1	OK	-30,2	70,2	0,4	-1,0	1,0
63,1	OK	-26,2	74,2	0,4	-1,0	1,0
79,4	OK	-22,5	77,9	0,4	-1,0	1,0
100,0	OK	-19,2	81,2	0,3	-1,0	1,0
126,0	OK	-16,1	84,2	0,3	-1,0	1,0
158,6	OK	-13,4	86,9	0,2	-1,0	1,0
199,5	OK	-10,9	89,3	0,2	-1,0	1,0
251,3	OK	-8,6	91,5	0,1	-1,0	1,0
316,2	OK	-6,6	93,5	0,1	-1,0	1,0
398,1	OK	-4,8	95,3	0,1	-1,0	1,0
501,3	OK	-3,2	96,8	0,0	-1,0	1,0
631,1	OK	-1,9	98,1	0,0	-1,0	1,0
794,3	OK	-0,8	99,2	0,0	-1,0	1,0
1000,0	OK	0,0	100,0	0,0	-0,7	0,7
1259,9	OK	0,6	100,5	-0,1	-1,0	1,0
1585,9	OK	1,0	100,9	-0,1	-1,0	1,0
1995,3	OK	1,2	101,1	-0,1	-1,0	1,0
2512,9	OK	1,3	101,2	-0,1	-1,0	1,0
3162,3	OK	1,2	101,2	0,0	-1,0	1,0
3981,1	OK	1,0	101,0	0,0	-1,0	1,0
5012,9	OK	0,6	100,6	0,1	-1,5	1,5
6310,6	OK	-0,1	100,1	0,2	-2,0	1,5
7943,3	OK	-1,1	99,3	0,4	-2,5	1,5
10000,0	OK	-2,5	98,1	0,6	-3,0	2,0
12599,3	OK	-4,3	96,4	0,7	-5,0	2,0
15858,9	OK	-6,6	94,4	1,0	-16,0	2,5
19952,6	OK	-9,3	91,8	1,1	-inf	3,0

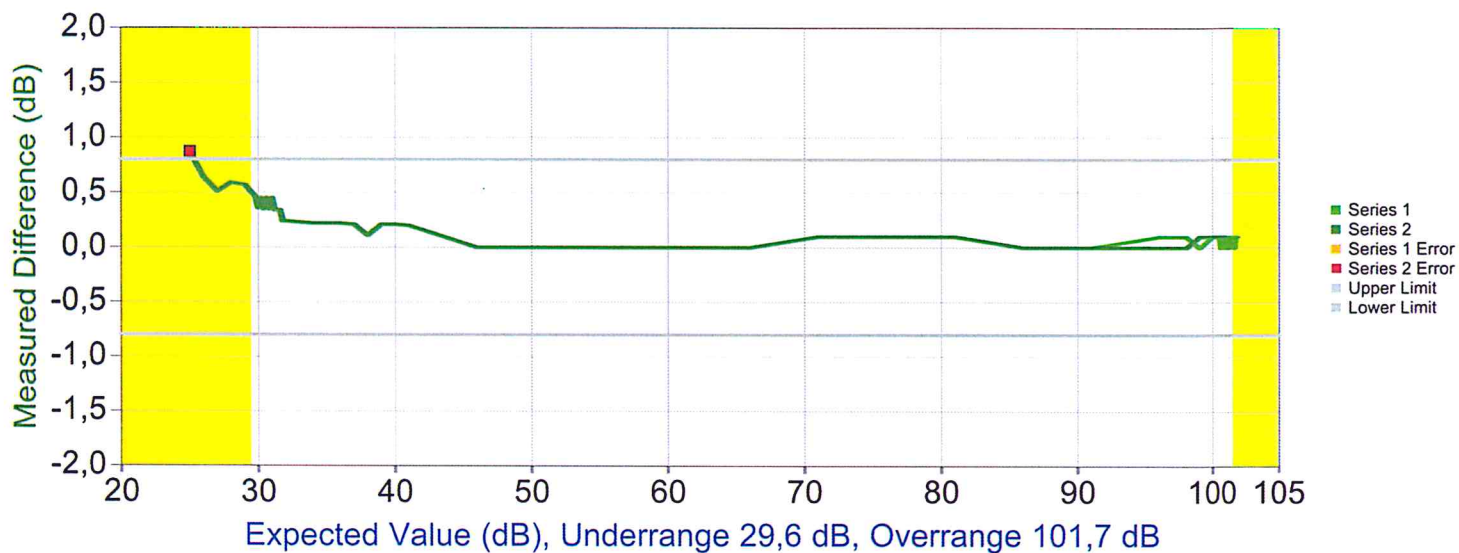
LAF Frequency Response



Level Linearity Test according to ISO 61672 passed!

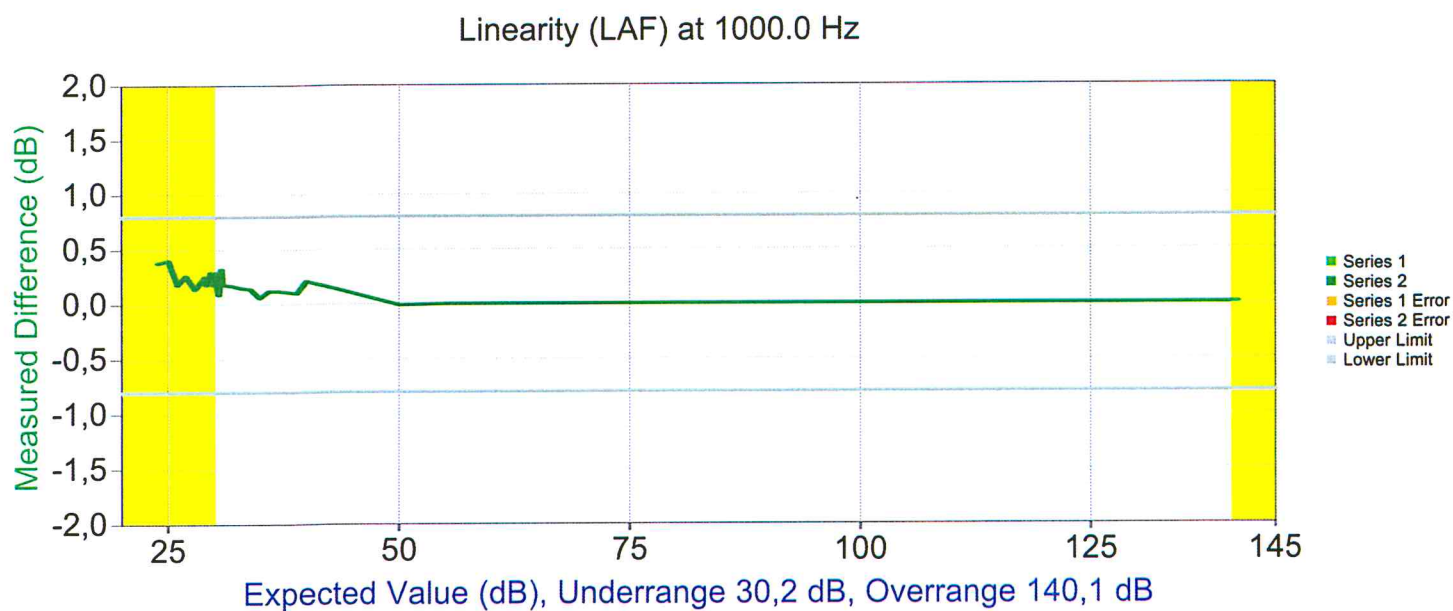
Frequency	Weighting	Result	Target	Linearity	Underrange	Overrange	HW OVL
31,6	LAF	OK	31,0..100,0	30,0..101,5	29,6	101,7	

Linearity (LAF) at 31.6 Hz



Level Linearity Test according to ISO 61672 passed!

Frequency	Weighting	Result	Target	Linearity	Underrange	Overrange	HW OVL
1000,0	LAF	OK	31,0..139,8	30,3..140,0	30,2	140,1	



Level Linearity Test according to ISO 61672 passed!

Frequency	Weighting	Result	Target	Linearity	Underrange	Overrange	HW OVL
12599,3	LAF	OK	32,0..135,0	30,2..136,9	30,2	137,0	

