



RAPID CHECK

S/N: 20220623130823000

- 23.06.2022
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Beschreibung

This document was produced at the testbench WZ1-16 in Karlsruhe. It is a full functional test with a given given firmware. It will perform all functions and point to a reference target which is at a distance of 54.4cm. The measurement is done with no lense so small diviation from the absolute targets are normal due to the setup. One of the 3 targets have to be in range. The other two are multiple reflections. The targeted sensor lense will introduce an offset which is stored. If you will use a different lense setup you can set the offset using the command #Z:50:XX+ by measuring with a reference target.



Allgemeines

RAPID S/N:	20220623130823000
Assamble date:	23.06.2022
Test date:	23.06.2022
Tester:	Thomas Latzko
Offset (#Z:50:XX+):	-0.0417 m
Target lense:	Durchmesser: 35 mm, Brennweite: 15 mm

Configuration

Hardware

Configuration	Sommer
Basis	rapid_v3_ (000261)

Software

Projekt	rapid_v3_120
Branch	master
Commit	455257c534f1091dafdeebb09ca1412b5ec58523

Settings

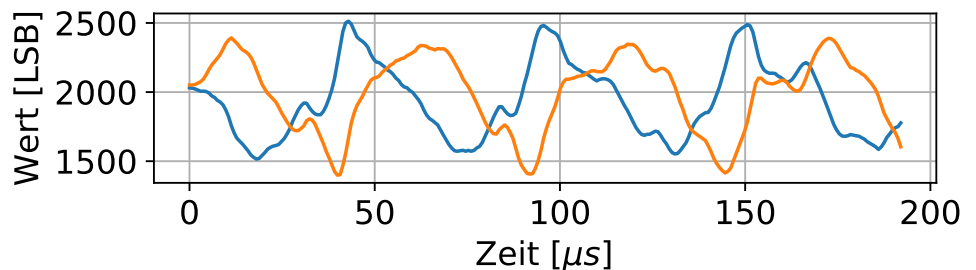
Start frequency:	122.0 GHz
Stop frequency:	123.0 GHz
Sweep time:	192.0 μ s
LP cutoff:	3
LP gain:	3

Performance

1. target // value:	53.50 cm // 83
2. target // value:	111.09 cm // 65
3. target // value:	167.06 cm // 66
SNR:	47.53 dB
PSNR:	94.87 dB
Phase stability:	0.19
Channel I min / max / mean:	1515.00 / 2513.00 / 1939.42
Channel Q min / max / mean:	1399.00 / 2392.00 / 1992.41

Daten

Rohdaten



Histogram

