

ME4T-PRO 70/28MHz TRANSVERTER

Rx MEASUREMENTS:

Front end: PGA-103+
 IF mixer : SRA1-H (17dBm)
 Gain : 20dB
 LO (42MHz) +13dBm TCXO 1ppm PDI or 0.5ppm AXTAL

RX OIP3 = +23dBm @ 50KHz
 RX IIP3 = +3.0dBm

RX noise (overall)

Direct		NOISE & GAIN			CALIBRATED
RBW:	1 MHz	RF Atten.	0 dB	2nd Stage Corr.	On
Average:	1	Auto Ref Level	On	Image Rejection	...
Current Value					
RF:	30 MHz	ENR	6.5 dB	NF.	1.23 dB
LO:	...	Loss In	0 dB	Noise Temp.	94.86 K
IF:	...	Loss Out	0 dB	Gain	19.87 dB

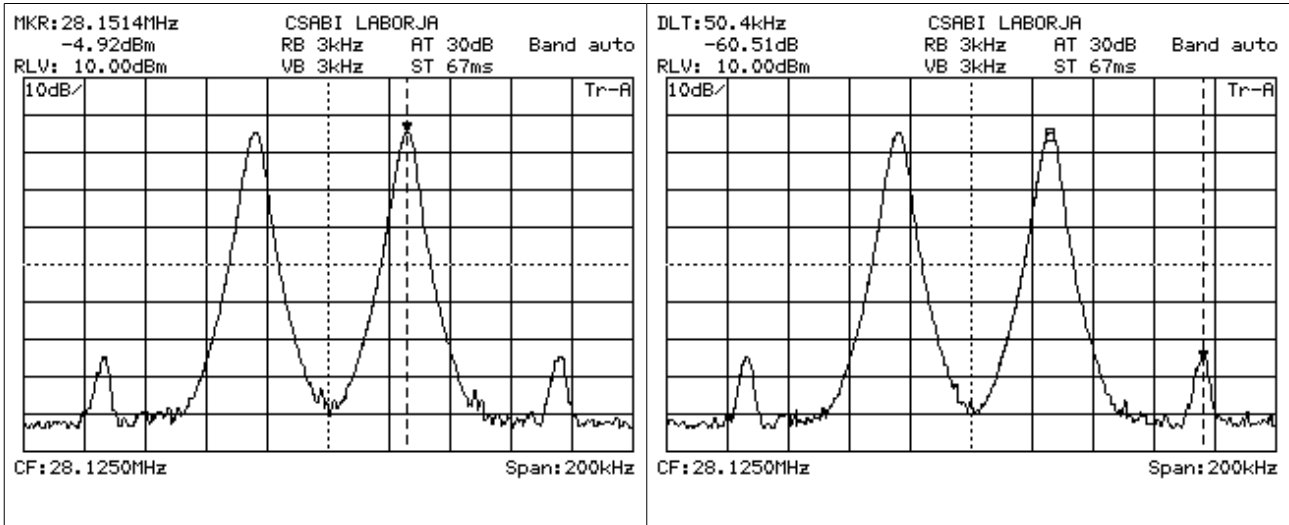
Frequency List Results				
RF	NF	Noise Temp	Gain	
28.00 MHz	1.20 dB	92.14 K	21.97 dB	
28.10 MHz	1.20 dB	92.11 K	22.03 dB	
28.20 MHz	1.18 dB	90.87 K	22.42 dB	
28.30 MHz	1.21 dB	93.03 K	22.59 dB	
28.40 MHz	1.20 dB	92.24 K	22.57 dB	
28.50 MHz	1.15 dB	88.11 K	22.47 dB	
28.60 MHz	1.17 dB	89.95 K	21.97 dB	
28.70 MHz	1.15 dB	88.28 K	22.27 dB	
28.80 MHz	1.16 dB	88.63 K	22.09 dB	
28.90 MHz	1.11 dB	84.50 K	22.55 dB	
29.00 MHz	1.23 dB	94.93 K	22.21 dB	
29.10 MHz	1.26 dB	97.28 K	21.96 dB	
29.20 MHz	1.22 dB	93.96 K	22.13 dB	
29.30 MHz	1.24 dB	95.89 K	21.67 dB	

Running ...

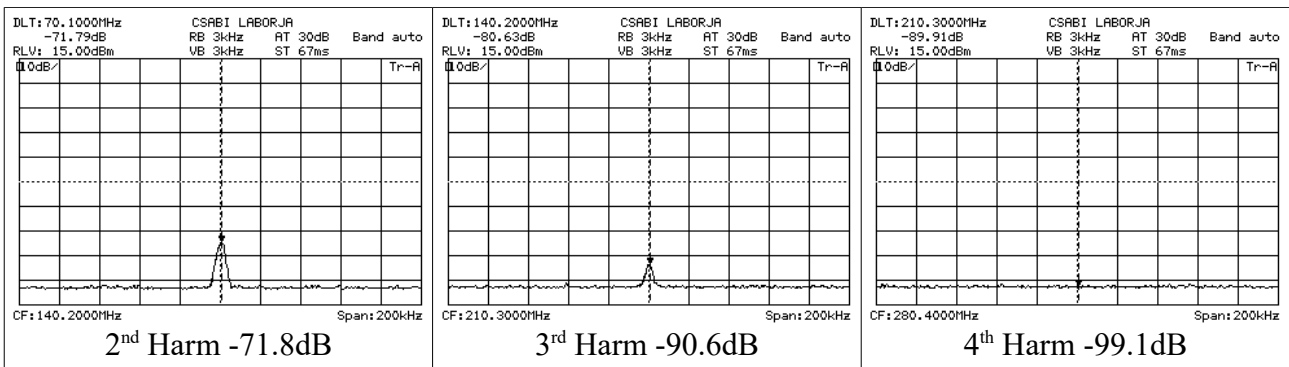
PGA103 1296.BMP

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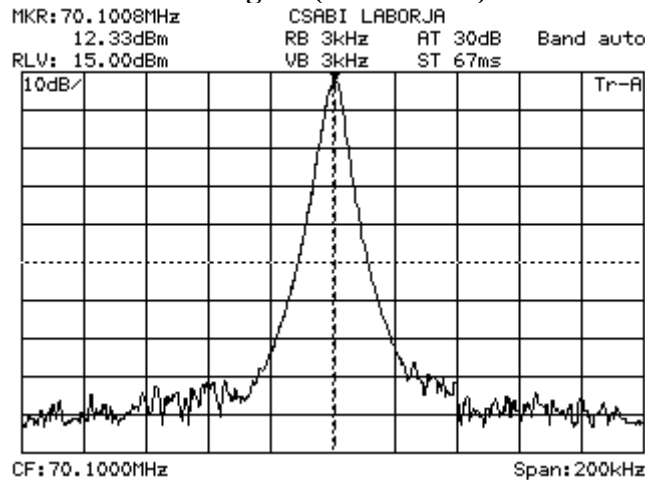
OIP3 Measurements



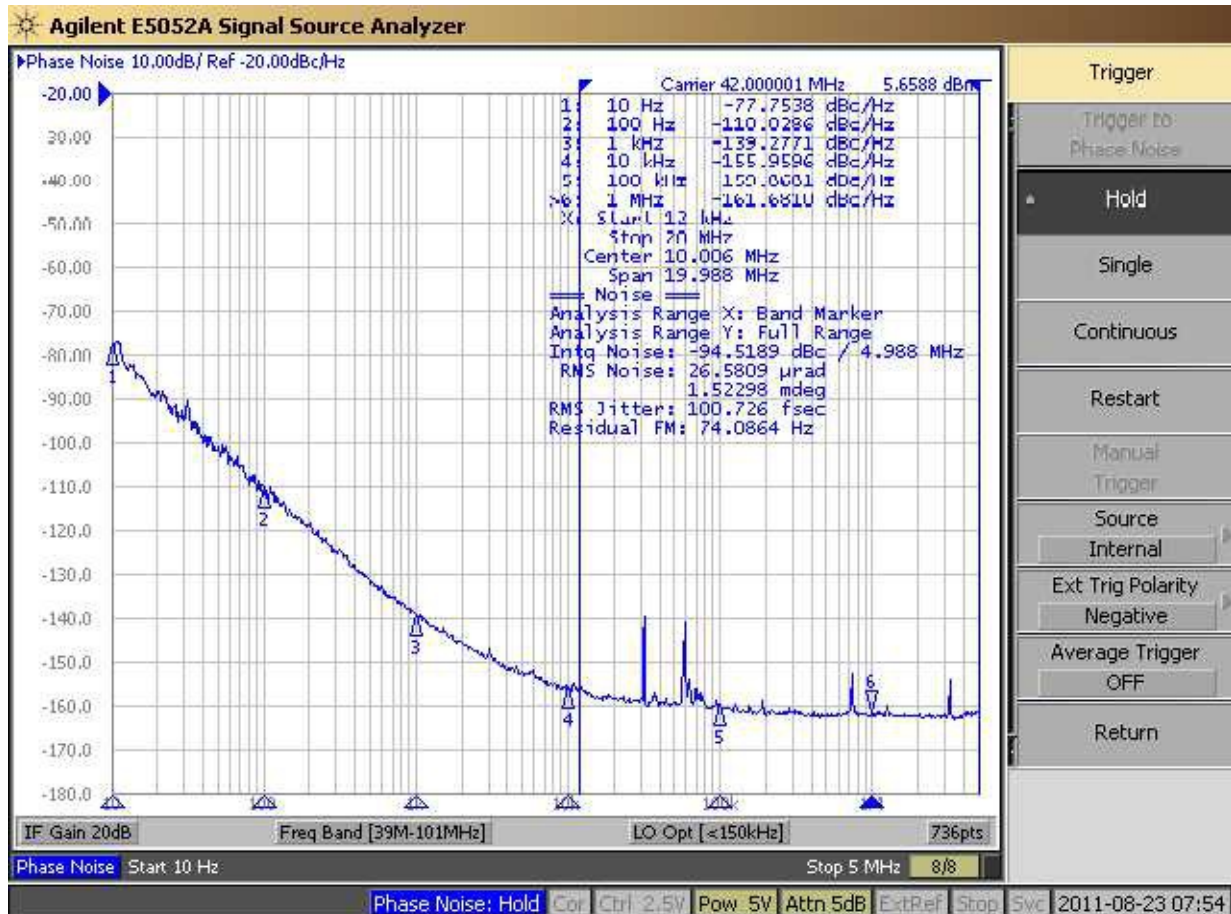
TX Measurements



TX signal (transverter)



TCXO Phase noise



AXTAL TCXO [inspection report 42MHz \(pdf\)](#)