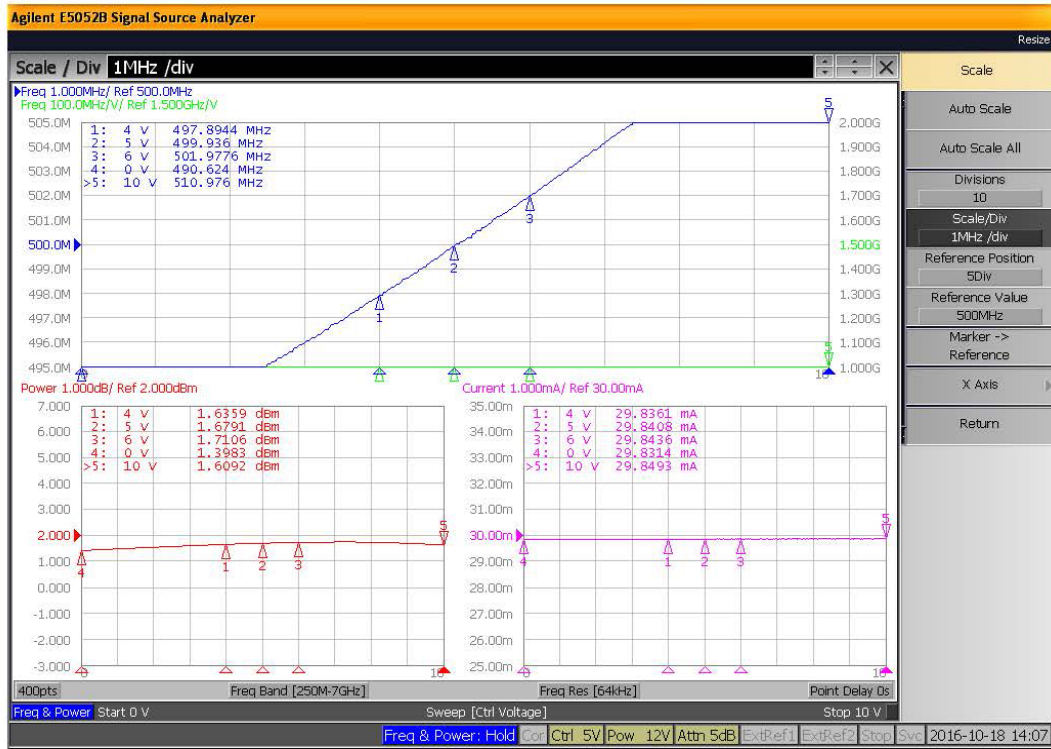
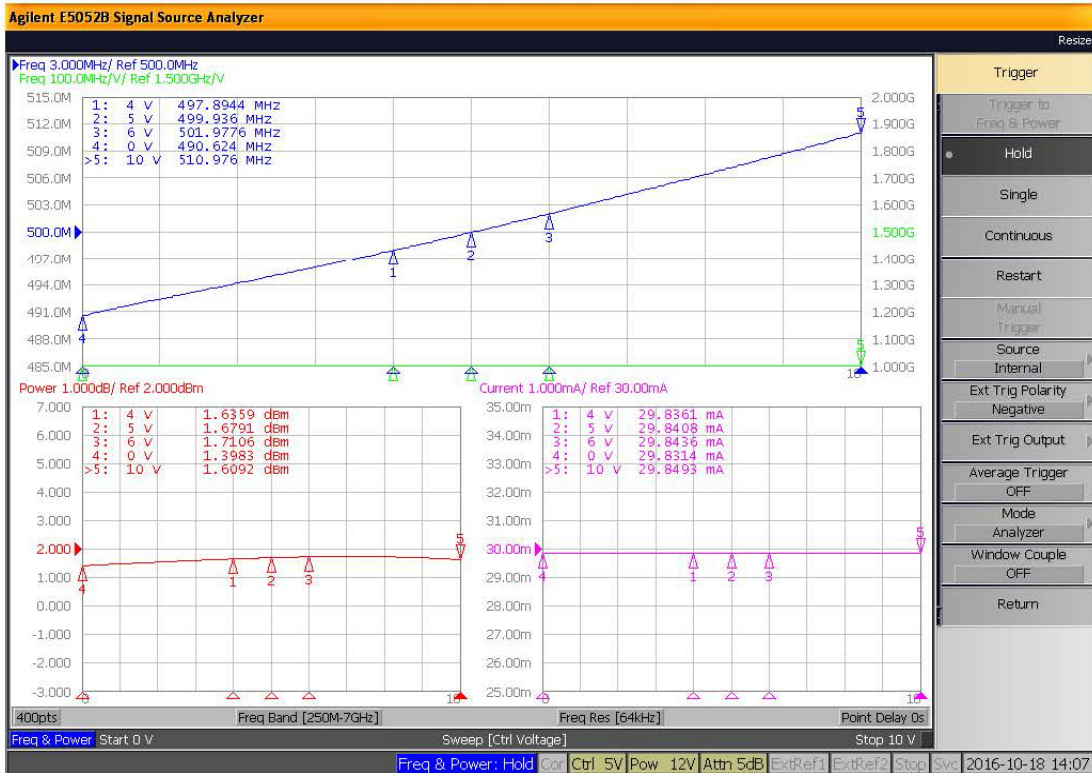


WBS500MHz VCOData Sheet

Output Frequency & Power



Phase Noise



VHF/UHF	FSK – wbs 500MHzVCO (Ver. up) Data Sheet				
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	Vt	No. 1	No. 2	No.3	Remark	
Output Frequency	4.0V	497.96MHz	498.15MHz	498.02MHz	500MHz ± 1 MHz	
	5.0V	499.97MHz	500.13MHz	500.00MHz		
	6.0V	502.04MHz	502.20MHz	502.04MHz		
Output Level 1	5.0V	1.4dBm	1.3dBm	2.4dBm	2dBm ± 1dB	
Output Level 2	5.0V	4.5dBm	4.5dBm	4.5dBm	4dBm ± 1dB	
SSB Phase Noise	5.0V	@1kHz offset	-88dBc/Hz	-90dBc/Hz	-89dBc/Hz	≤ -85dBc/Hz
		@10kHz offset	-113dBc/Hz	-113dBc/Hz	-113dBc/Hz	≤ -105dBc/Hz
		@100kHz offset	-134dBc/Hz	-133dBc/Hz	-133dBc/Hz	≤ -125dBc/Hz
Harmonic Suppression	5.0V	2nd	-31dBc	-32dBc	-32dBc	≤ -25dBc
		3rd	-40dBc	-40dBc	-39dBc	≤ -25dBc
Tuning Sensitivity		2.04MHz/V	2.03MHz/V	2.01MHz/V	2.0 ± 0.1MHz/V	
Modulation Amplitude Deviation	5.0V	96kbps	50.6mVp-p	51.4mVp-p	51.6mVp-p	50mVp-p ± 10%
		288kbps	150mVp-p	153mVp-p	154mVp-p	150mVp-p ± 10%
		576kbps	300mVp-p	306mVp-p	306mVp-p	300mVp-p ± 10%
		1152kbps	601mVp-p	615mVp-p	615mVp-p	600mVp-p ± 10%
		2304kbps	1200mVp-p	1230mVp-p	1220mVp-p	1200mVp-p ± 10%
Supply Current	5.0V	29.8mA	29.8mA	29.9mA	≤ 40mA	
	Vt	No.	No.	No.	Remark	
Output Frequency	4.0V	MHz	MHz	MHz	500MHz ± 1 MHz	
	5.0V	MHz	MHz	MHz		
	6.0V	MHz	MHz	MHz		
Output Level 1	5.0V	dBm	dBm	dBm	2dBm ± 1dB	
Output Level 2	5.0V	dBm	dBm	dBm	4dBm ± 1dB	
SSB Phase Noise	5.0V	@1kHz offset	dBc/Hz	dBc/Hz	dBc/Hz	≤ -85dBc/Hz
		@10kHz offset	dBc/Hz	dBc/Hz	dBc/Hz	≤ -105dBc/Hz
		@100kHz offset	dBc/Hz	dBc/Hz	dBc/Hz	≤ -125dBc/Hz
Harmonic Suppression	5.0V	2nd	dBc	dBc	dBc	≤ -25dBc
		3rd	dBc	dBc	dBc	≤ -25dBc
Tuning Sensitivity					2.0 ± 0.1MHz/V	
Modulation Amplitude Deviation	5.0V	96kbps	mVp-p	mVp-p	mVp-p	50mVp-p ± 10%
		288kbps	mVp-p	mVp-p	mVp-p	150mVp-p ± 10%
		576kbps	mVp-p	mVp-p	mVp-p	300mVp-p ± 10%
		1152kbps	mVp-p	mVp-p	mVp-p	600mVp-p ± 10%
		2304kbps	mVp-p	mVp-p	mVp-p	1200mVp-p ± 10%
Supply Current	5.0V	mA	mA	mA	≤ 40mA	

Supply Voltage 12Vdc