



TYPICAL CHARACTERISTICS  
ON  
CS00248-01 REV D

**SWITCHED OUTPUT DOUBLER**



Tested By:  
Hugo Gonzales  
Sebastian Palacio

Reported By:  
Sebastian Palacio

May 23, 2012



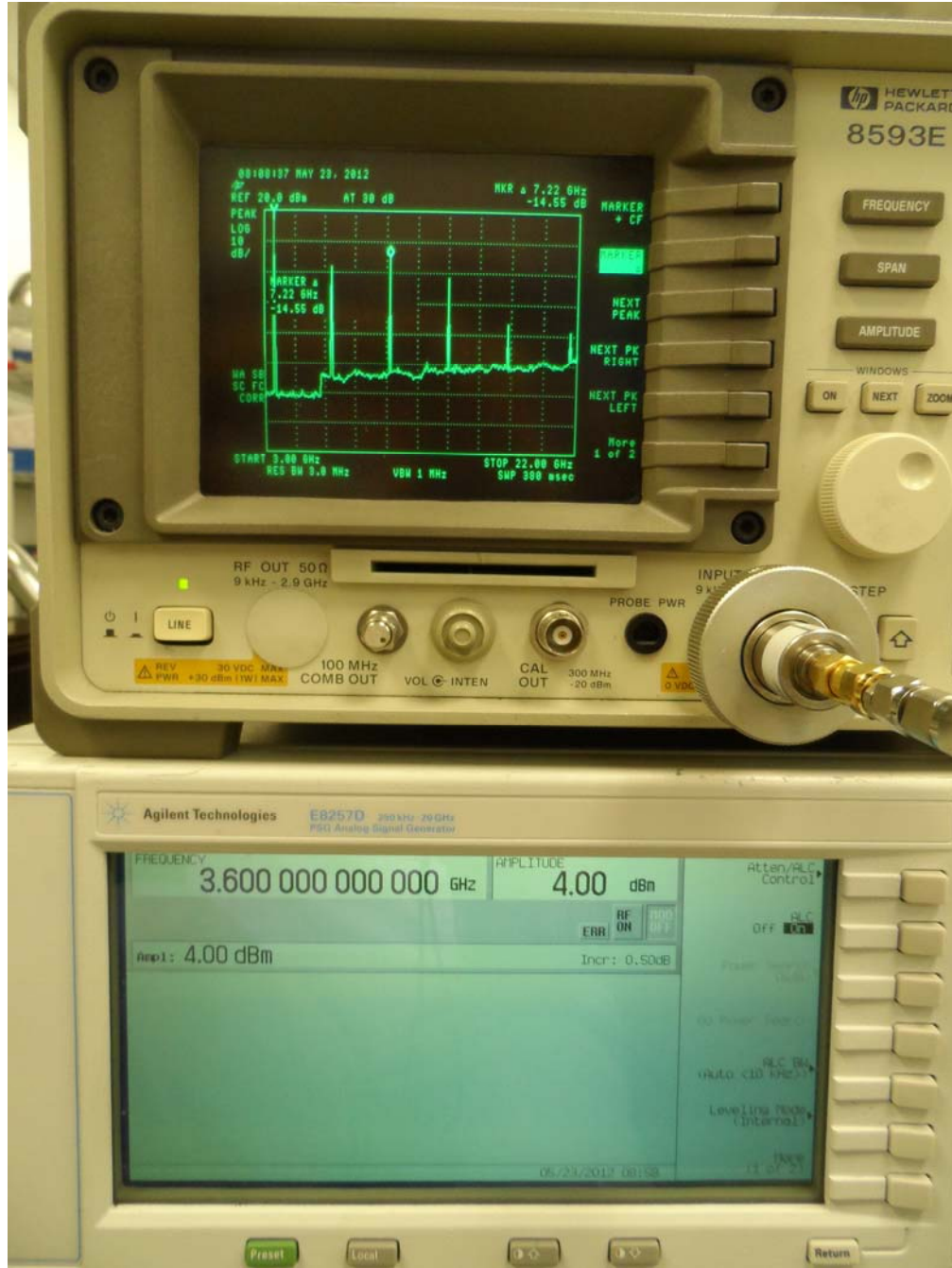
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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	3.6 – 13.3 GHz	<b>Pass</b>	
2	Input Power 3.6 6.65 GHz	0dBm to 4dBm	<b>Pass</b>	
3	Output Level: 0dBm to 4dBm IN (No Attenuation)	+10dBm Min. +16dBm Typ.	<b>Pass</b> <b>10dBm-17.35dBm</b> <b>See Plots</b>	
4	Harmonics	Thru Path -15dBc Typ. Doubler Paths -25dBc Max.	<b>Pass</b> <b>Pass</b> <b>See Plots</b>	
5	Sub Harmonics and Multiples	-65dBc Max.	<b>Pass</b> <b>See Plots</b>	
6	Sub Harmonics of 3.85 – 3.95 GHz and 4.85 – 4.90 GHz	-75dBc Max.	<b>Pass</b> <b>See Plots</b>	
7	Isolation	-35dBc Min.	<b>Pass</b> <b>See Plots</b>	
8	VSWR	2.0:1 Max.	<b>Pass</b> <b>See Plots</b>	
9	Analog Amplitude Control	0V = Min. Attenuation +5V = Max. Attenuation	<b>Pass</b>	
10	DC Supply	+7.5VDC @ ±5% 600mA Max.	<b>+7.5VDC @ 360Ma</b> <b>Pass</b>	



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THRU PATH - TYPICAL HARMONICS



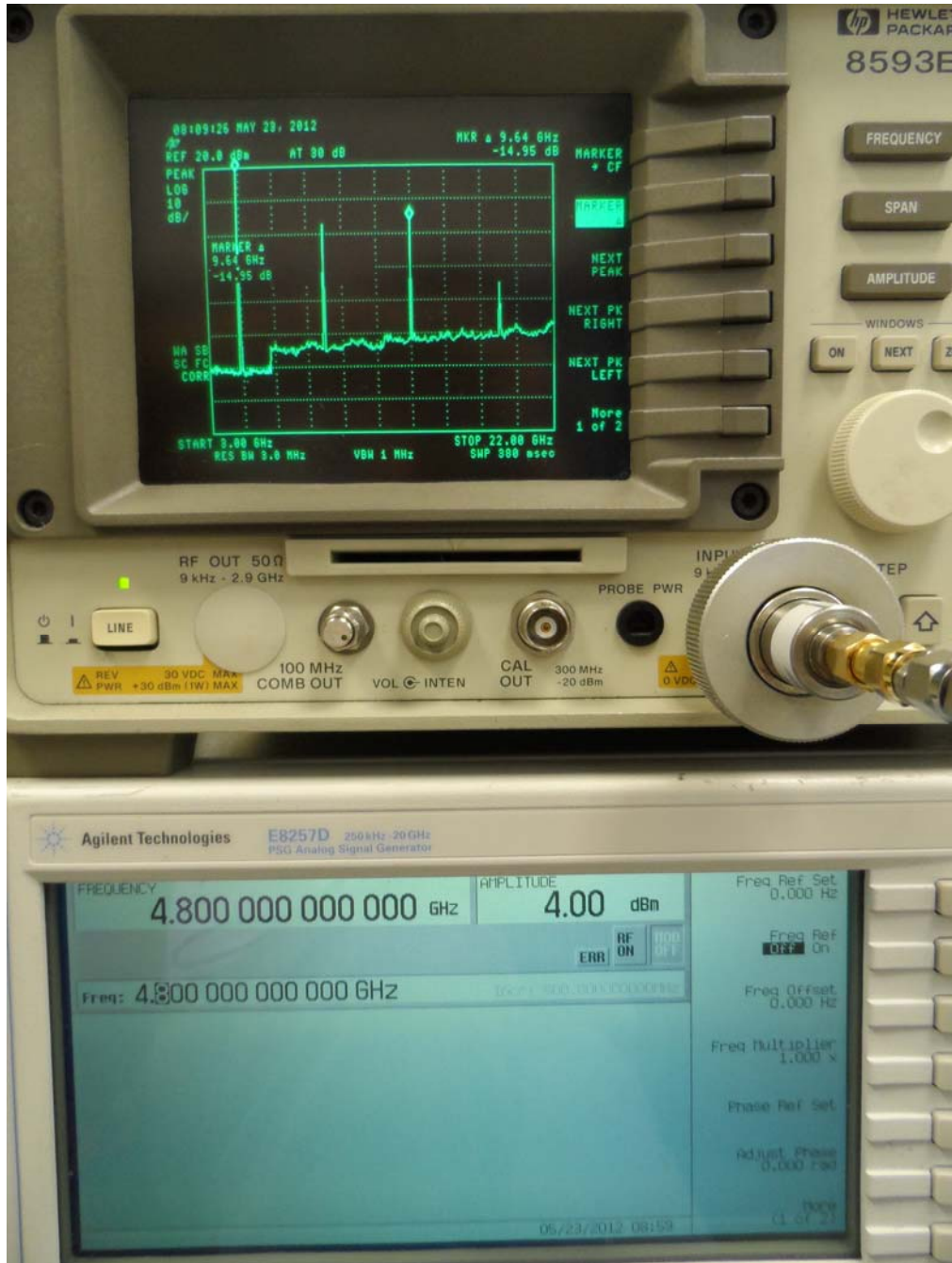
3.6GHz @ 4dBm IN  
Harmonic -14.55dB

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THRU PATH - TYPICAL HARMONICS



4.8GHz @ 4dBm IN  
Harmonic -14.95dB

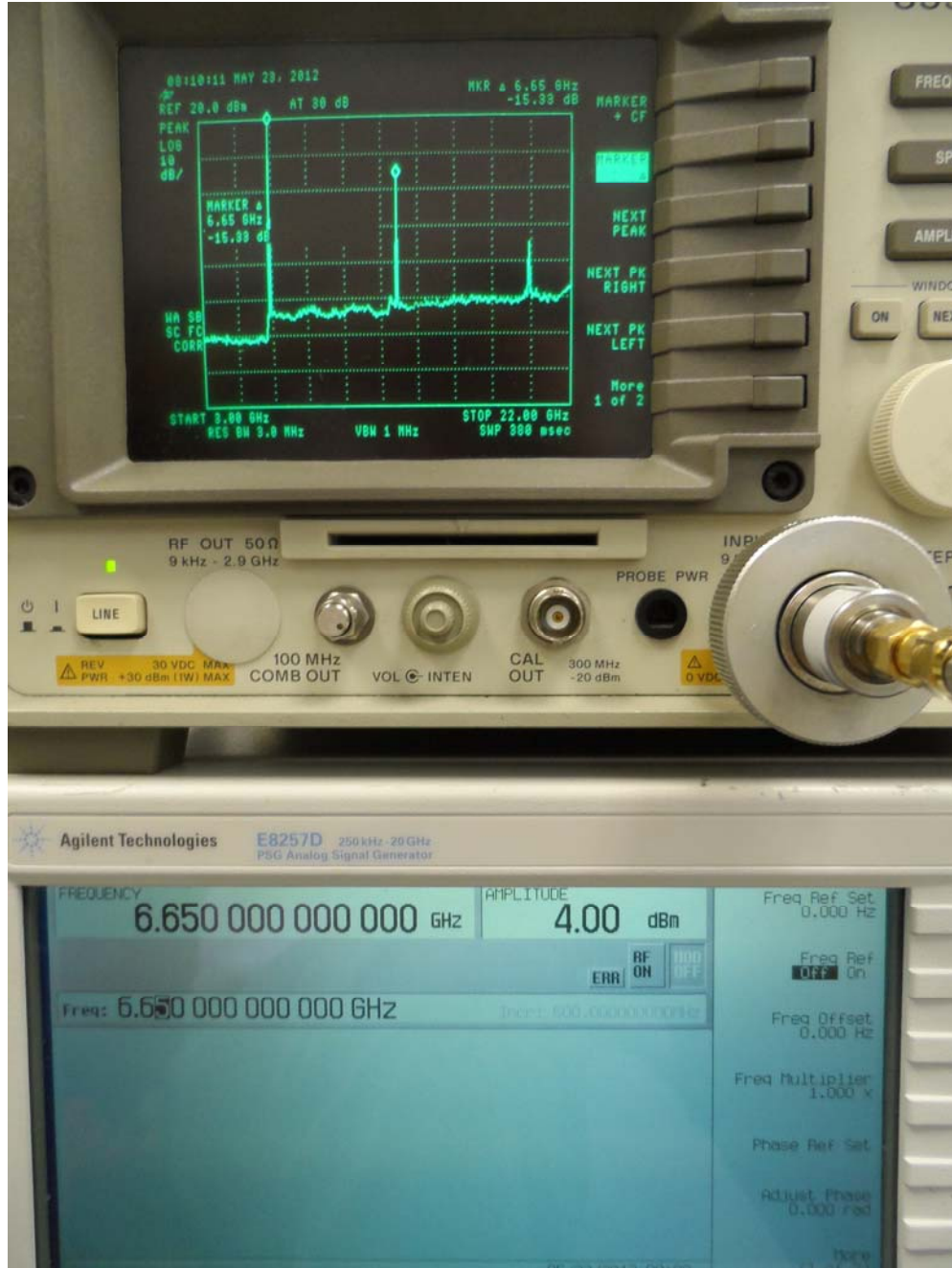
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THRU PATH – TYPICAL HARMONICS



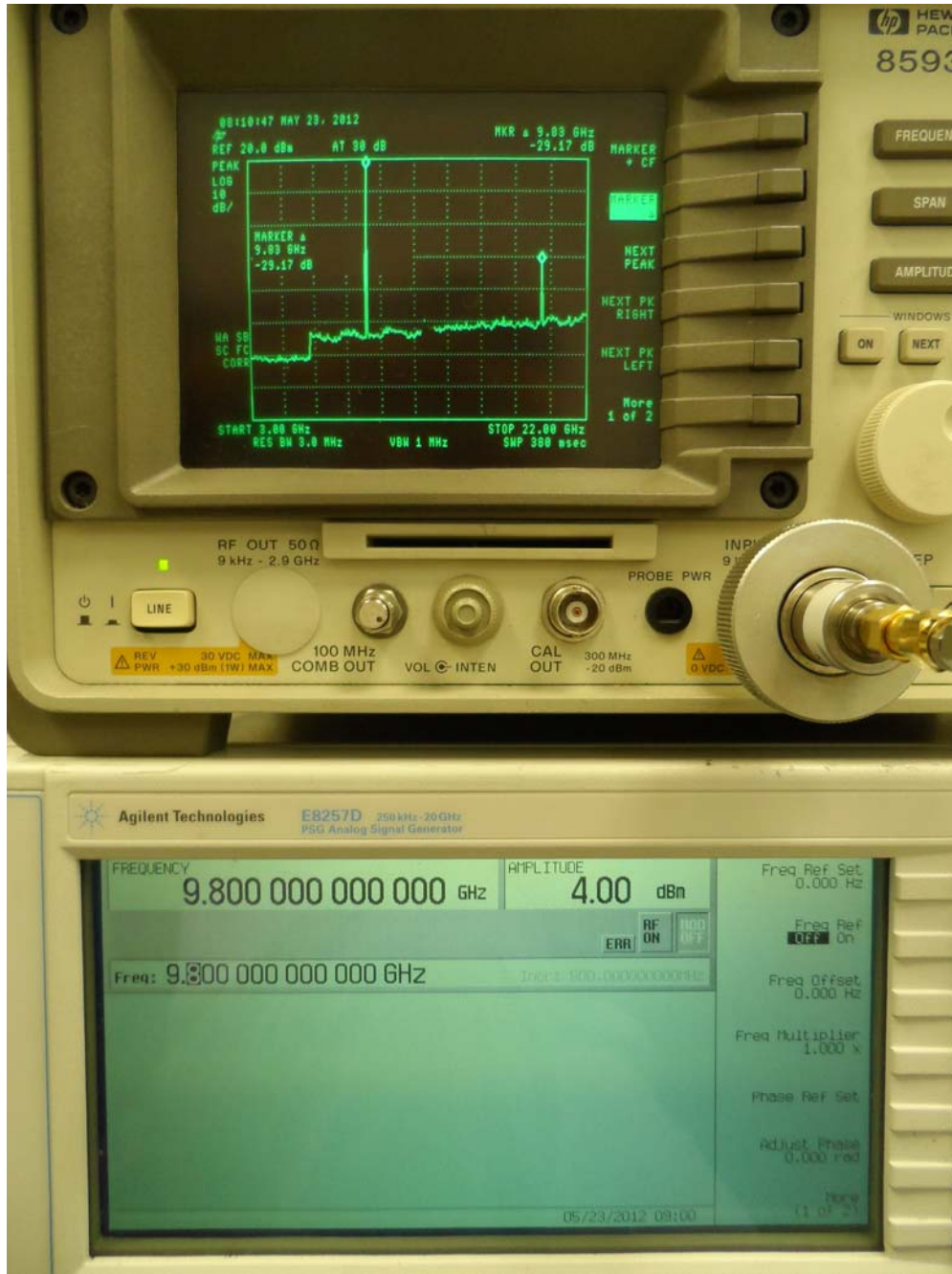
6.65GHz @ 4dBm IN  
Harmonic -15.33dB

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THRU PATH - TYPICAL HARMONICS

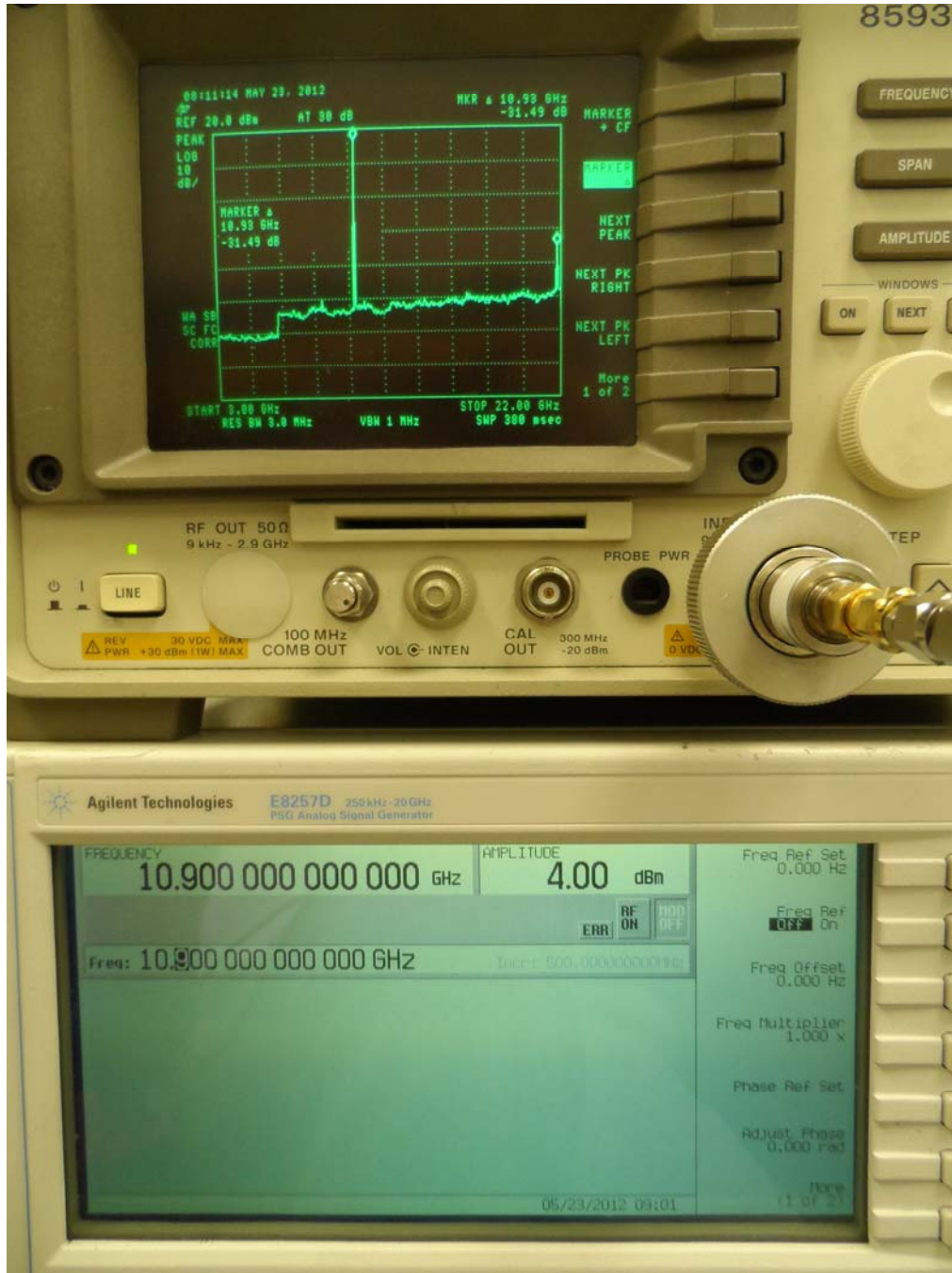


9.8GHz @ 4dBm IN  
Harmonic -29.17dB



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THRU PATH - TYPICAL HARMONICS



10.9GHz @ 4dBm IN  
Harmonic -31.49dB

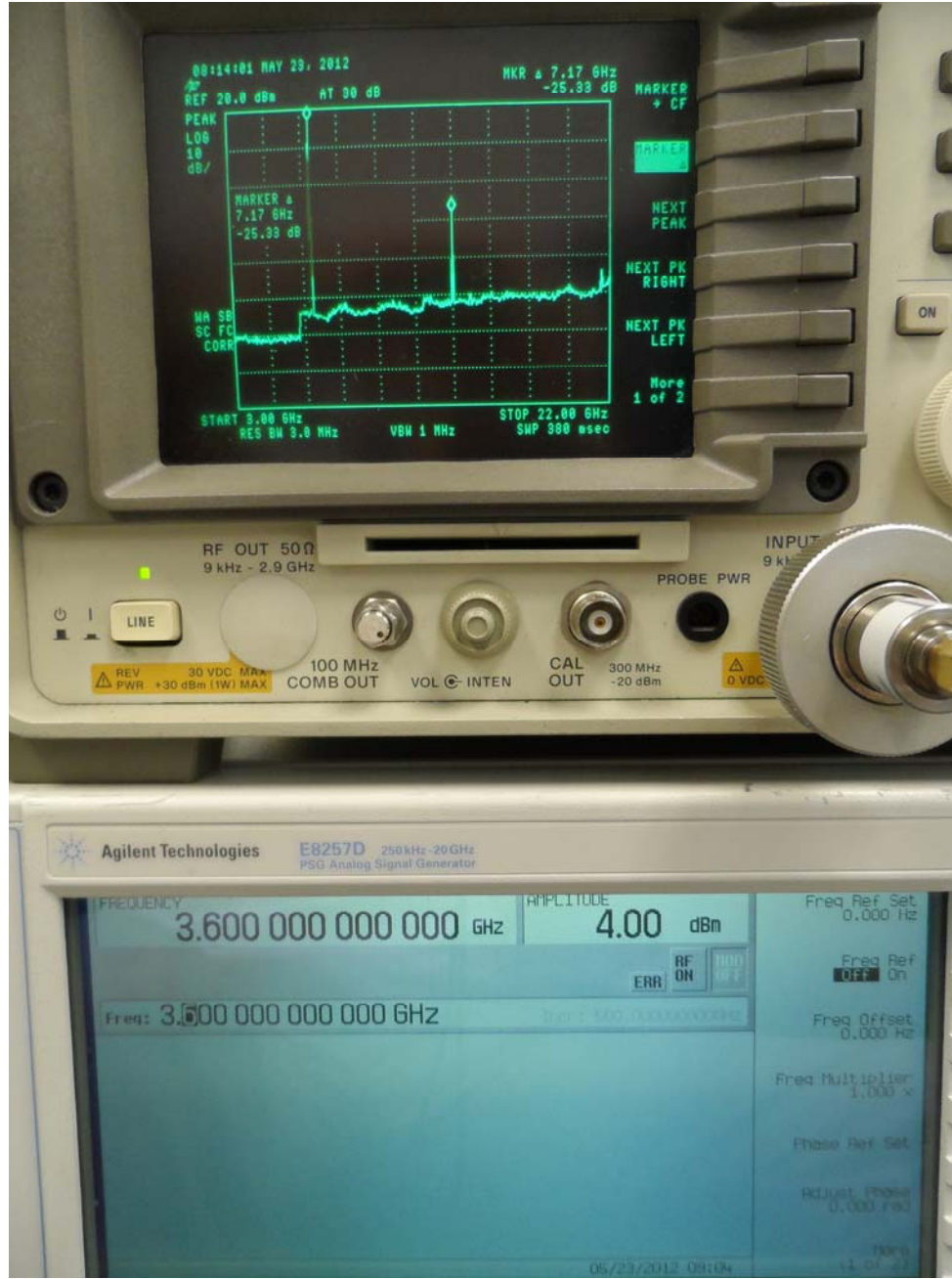
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DOUBLER PATH - TYPICAL HARMONICS



3.6GHz @ 4dBm IN  
Doubled signal @ 7.2GHz  
Doubled Signal Harmonic -25.33dB

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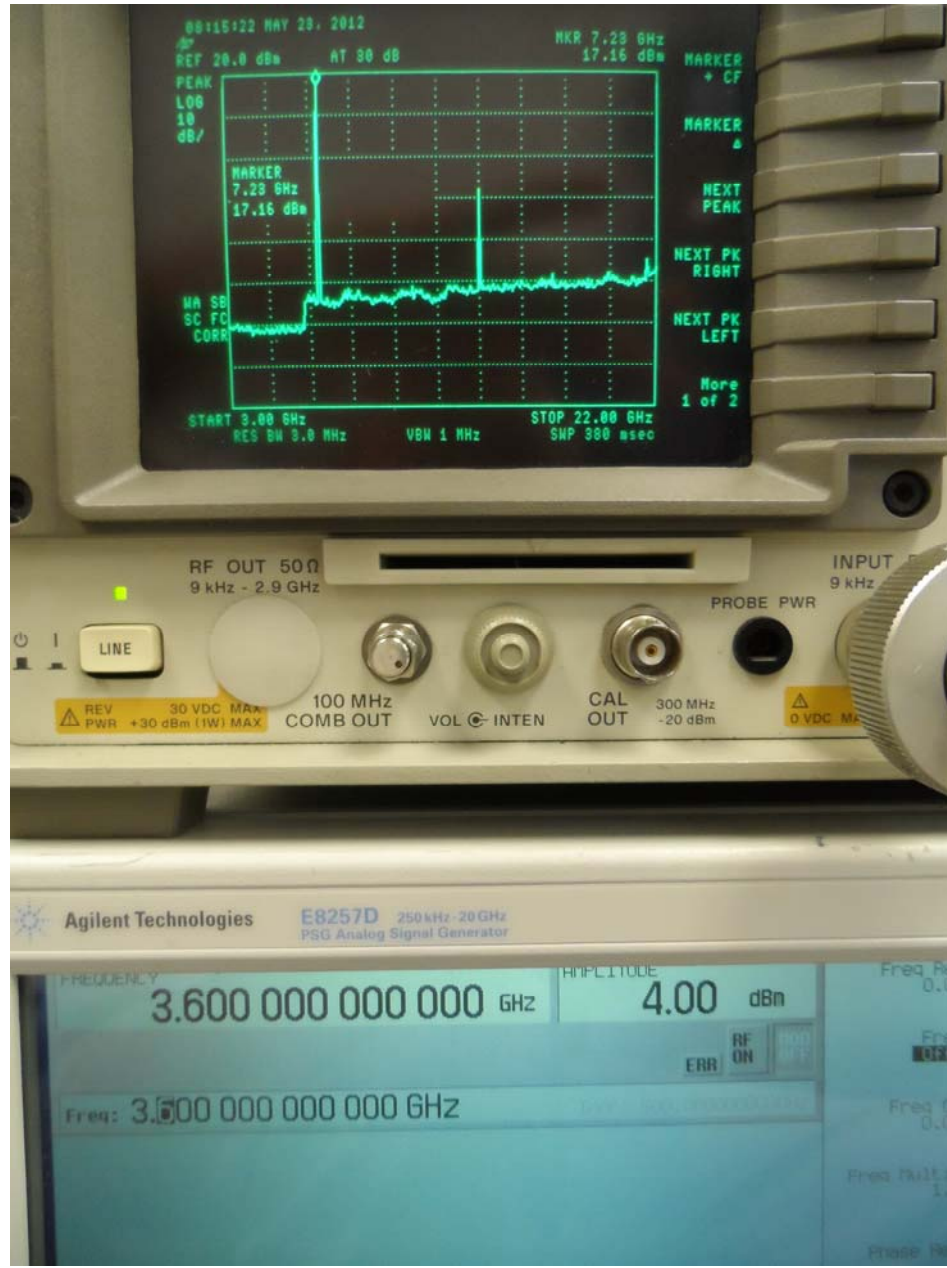






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TYPICAL OUTPUT POWER



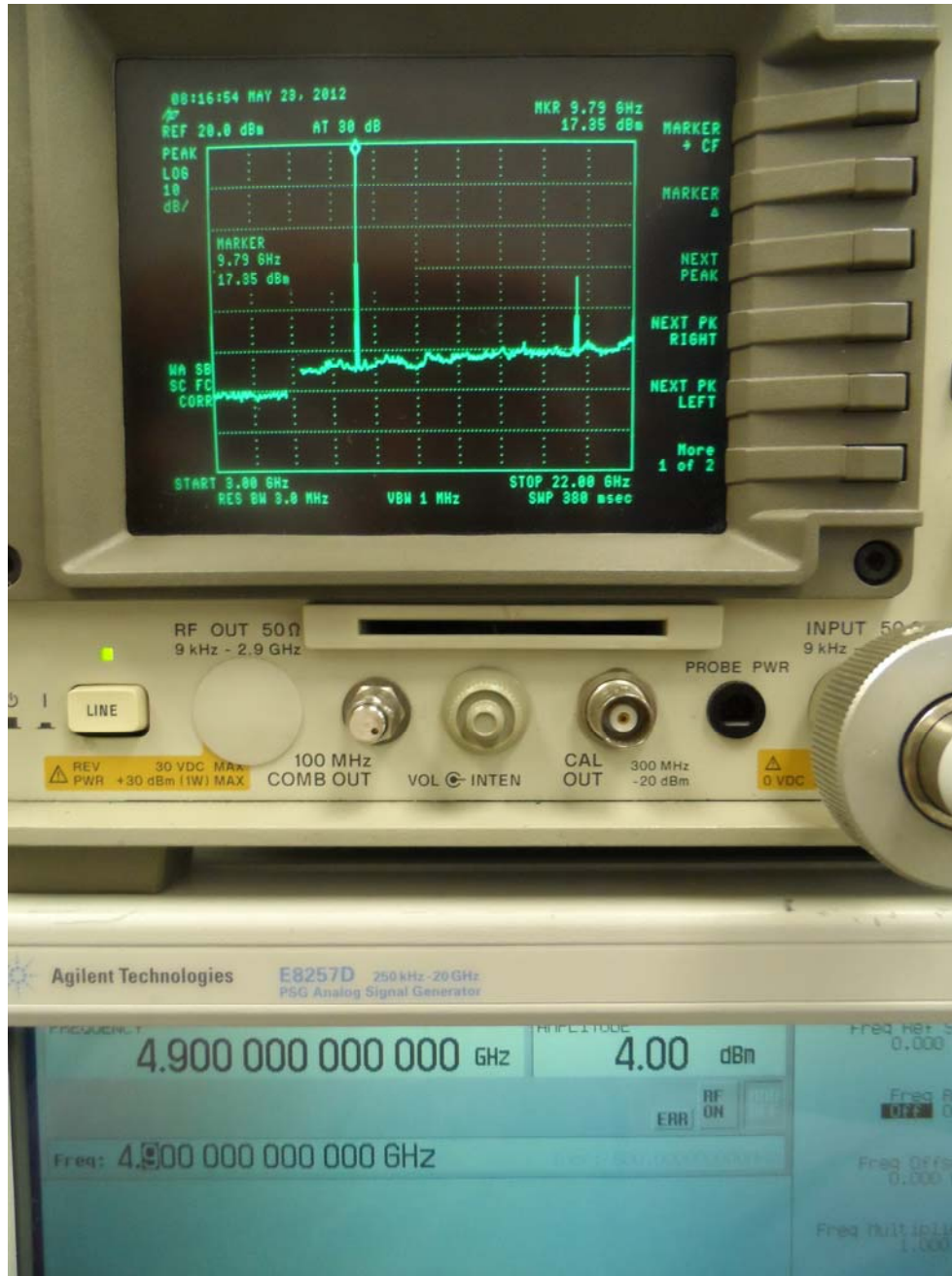
3.6GHz @ 4dBm IN  
Doubled signal @ 7.2GHz  
Output Power +17.16dBm

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4.9GHz @ 4dBm IN  
Doubled signal @ 9.8GHz  
Output Power +17.35dBm

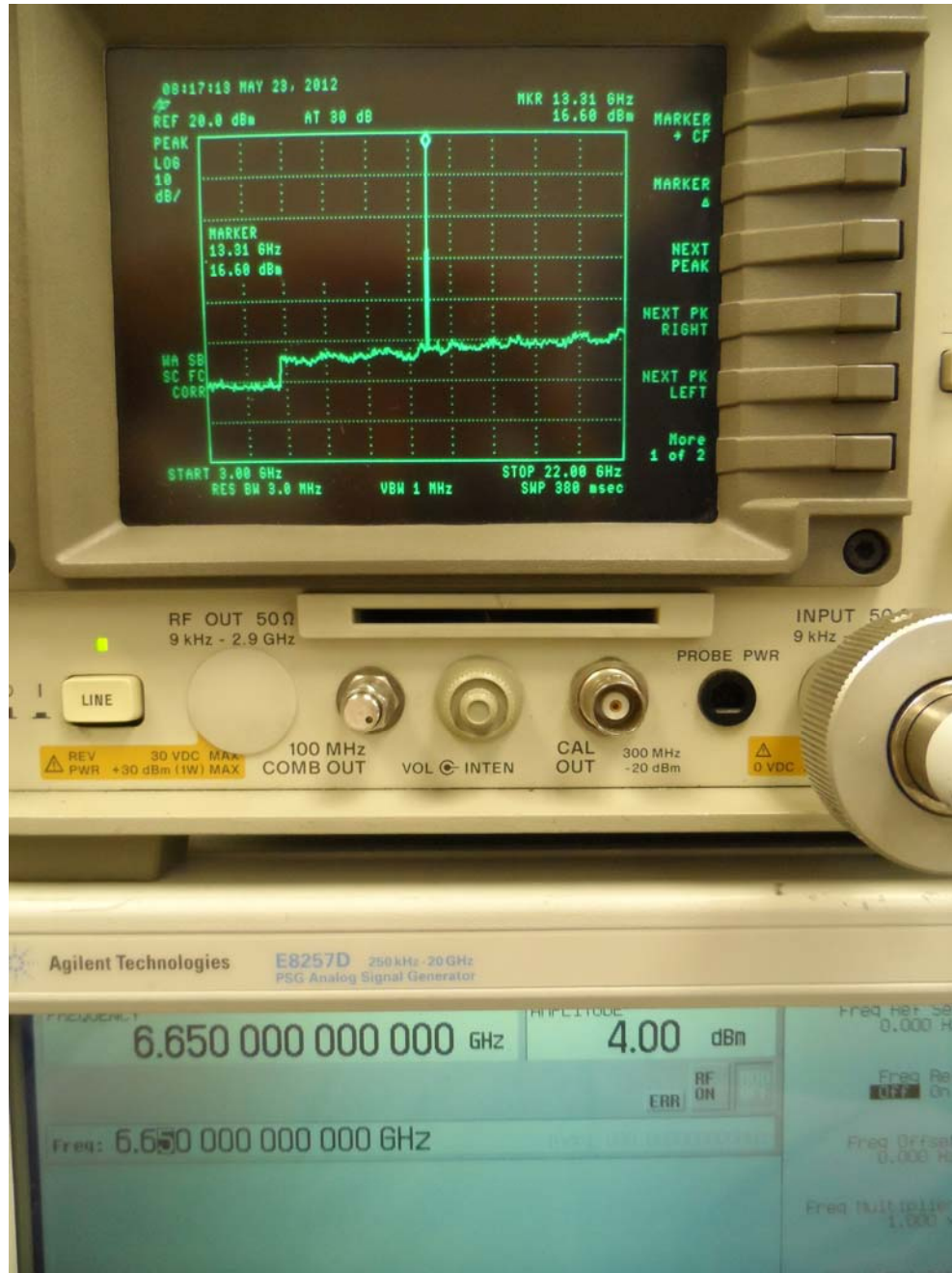
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6.65GHz @ 4dBm IN  
Doubled signal @ 13.3GHz  
Output Power +16.60dBm

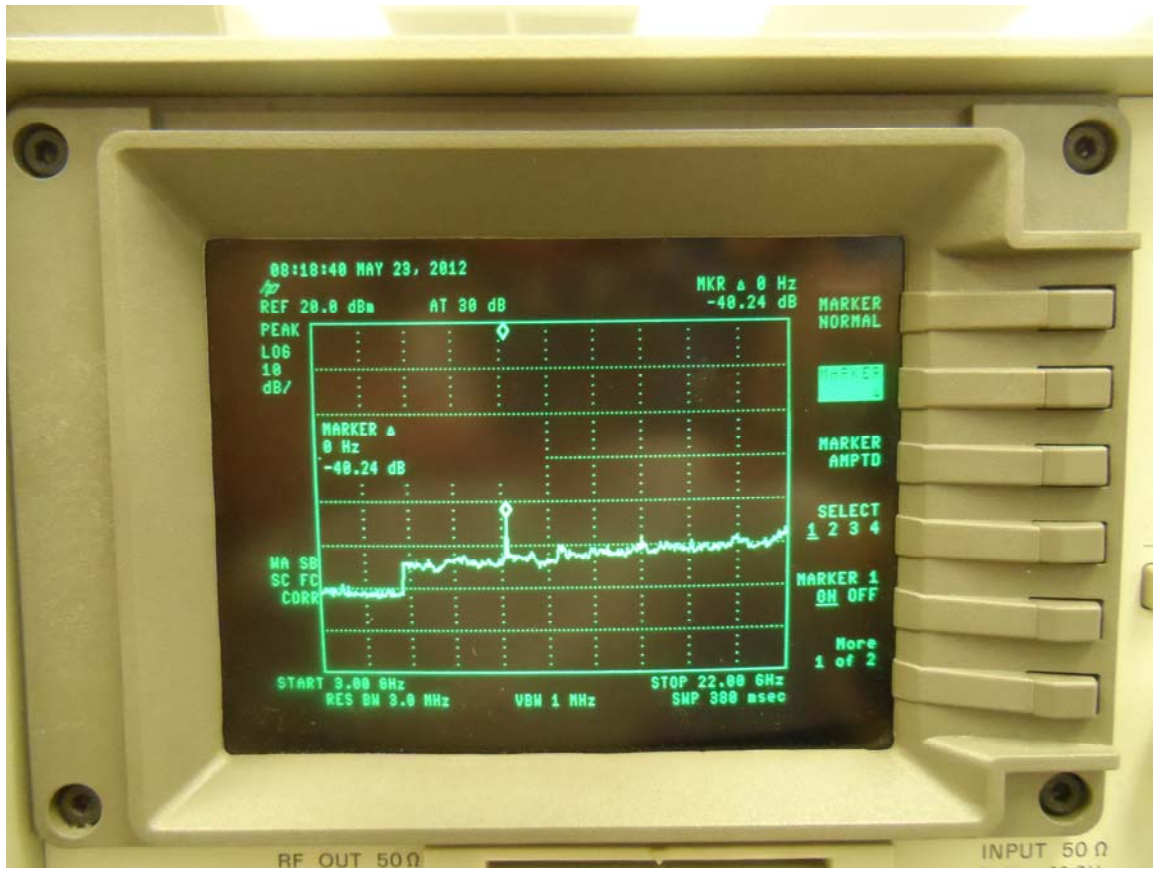
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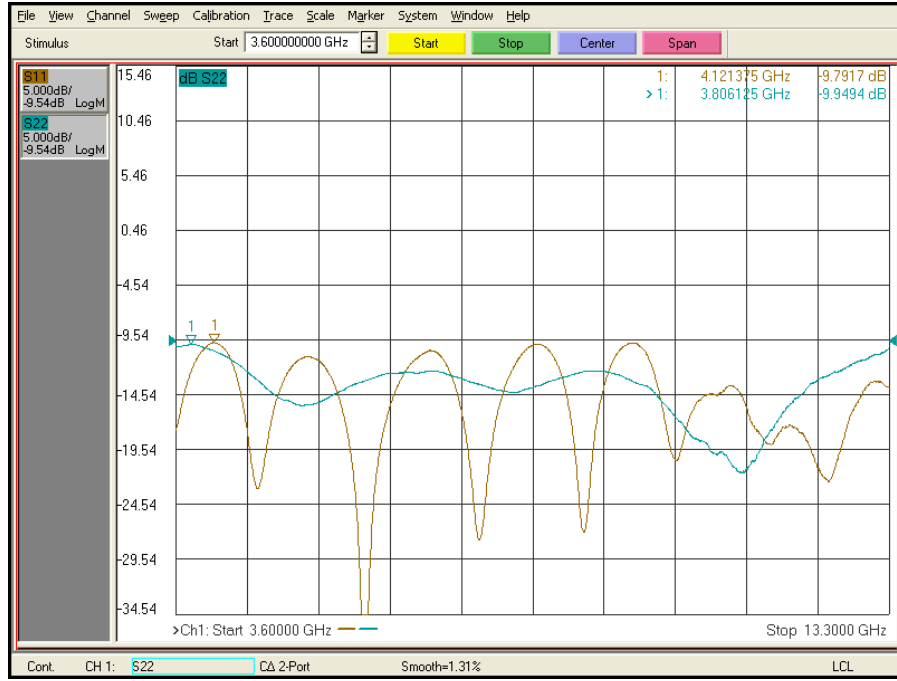
TYPICAL ISOLATION – OUTPUT 1 TO OUTPUT 2





# TYPICAL CHARACTERISTICS ON CS00248-01 REV D

## OUTPUT 1 – RETURN LOSS



## OUTPUT 2 – RETURN LOSS

