



Unit Test Data on PSA-22-1416-15-SFF

Job Number: PE601010
 Model Number: PSA-22-1416-15-SFF Rev.B
 Serial Number: PL2530

Date: 7/13/06
 Temperature: -50 to +100°C
 Tested By: Kevin Mason

Electrical Test	Temperature of Test	Specified Value	Measured Value	Figure Number
Supply Voltages	20°C	+12VDC	410mA@+12VDC	
Ripple Supply Voltages	20°C	100mVeff max.	<90mVeff.	
RF Freq. Range	20°C	14-16 GHz	14-16 GHz	
RF Input Power	20°C	3-7dBm	3-7dBm	
RF Input max. VSWR	20°C	2.0:1 max.	1.76:1	Figure 1
RF Output Sat. Power, Psat. @ 15GHz			Pin= 3dBm 7dBm	
"	20°C	"	20.89 21.24	
RF Output max. VSWR	20°C	2.0:1 max.	1.45:1	Figure 2
RF Output Power Flatness, Pin = 3dBm	20°C	-1 to +1dB	±0.88dB	Figure 3
RF Spurious Output Power	20°C	-90dBc/Hz/CW max.	NT	
RF Coherent Spurious Output	20°C	-80dBc max	NT	
RF Output Harmonic Levels	20°C	-20dBc max	-22.1dBc	
Noise Figure	20°C	10dB max.	6.87dB	Figure 4
Max. Compression Gain at Pin=3 to 7dBm	20°C	5dB max.	3.81dB	

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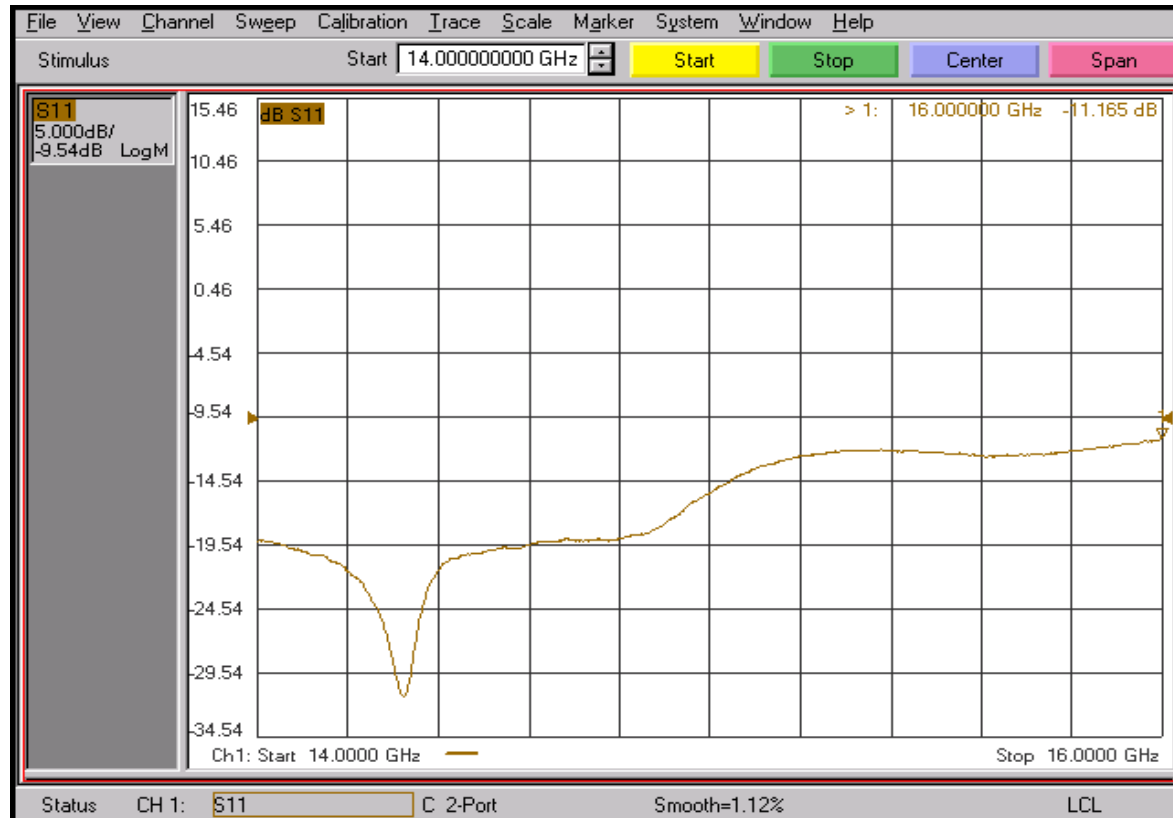
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Electrical Test	Temperature of Test	Specified Value	Measured Value	Figure Number
RF Switch Control Signal	20°C	"0" - No Attn. "1" - Attn.	Pass Pass	
RF Switch Attenuation Range	20°C	60dB min.	65.91dB	Figure 5
RF max. Switching Time (Delay On + Rise Time)	20°C	25nS max.	7nS	
(Delay Off + Rise Time)	20°C	25nS max.	8nS	
RF max. Jitter on Rising and Falling Edges	20°C	2.5nS max.	≤1nS	
Operating Temperature		-50 to +100°C	Pass	
Temperature Shocks		1cycle from +50°C (3 hours) to -40°C (3 hours)	Pass	
RF min. Pulse Width	20°C	100nS min.	50nS	
RF max. Pluse Repetition Rate	20°C	250kHz	≥1MHz	

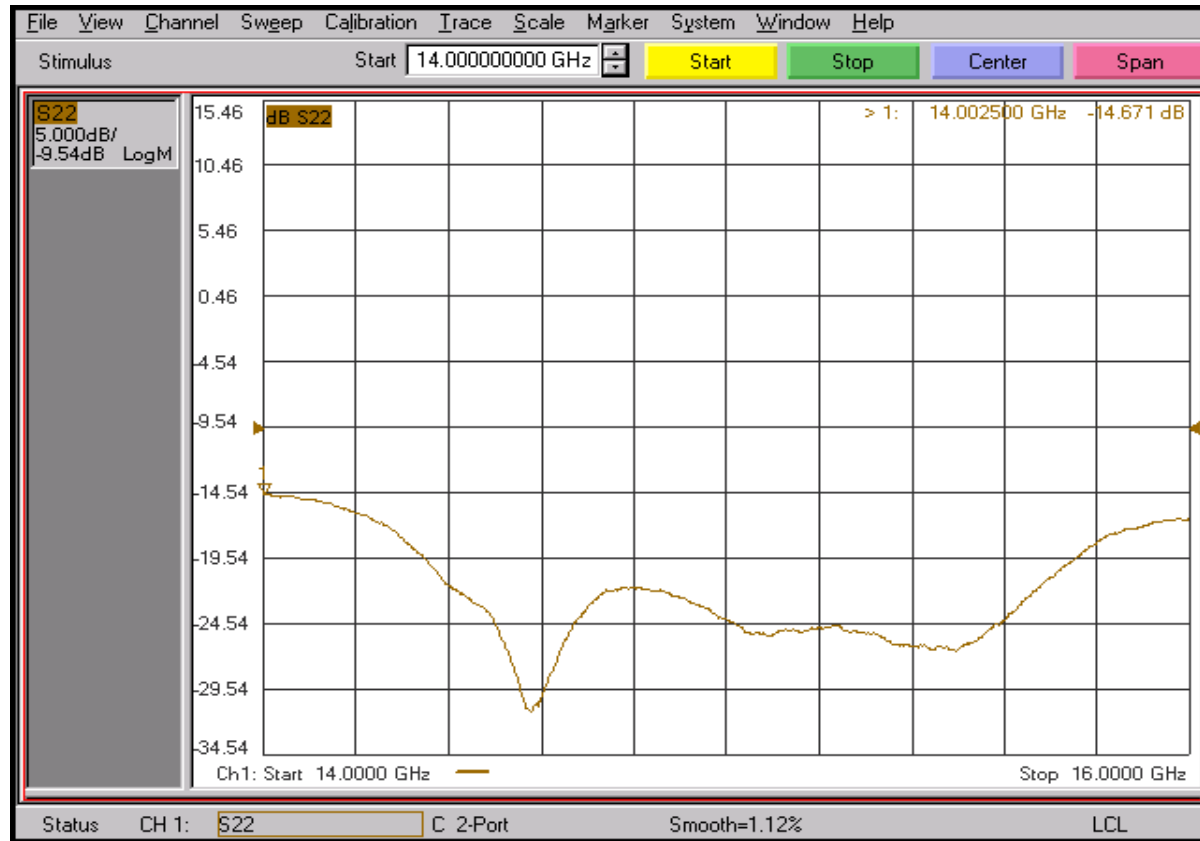
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Figure 1 - Input VSWR Plot



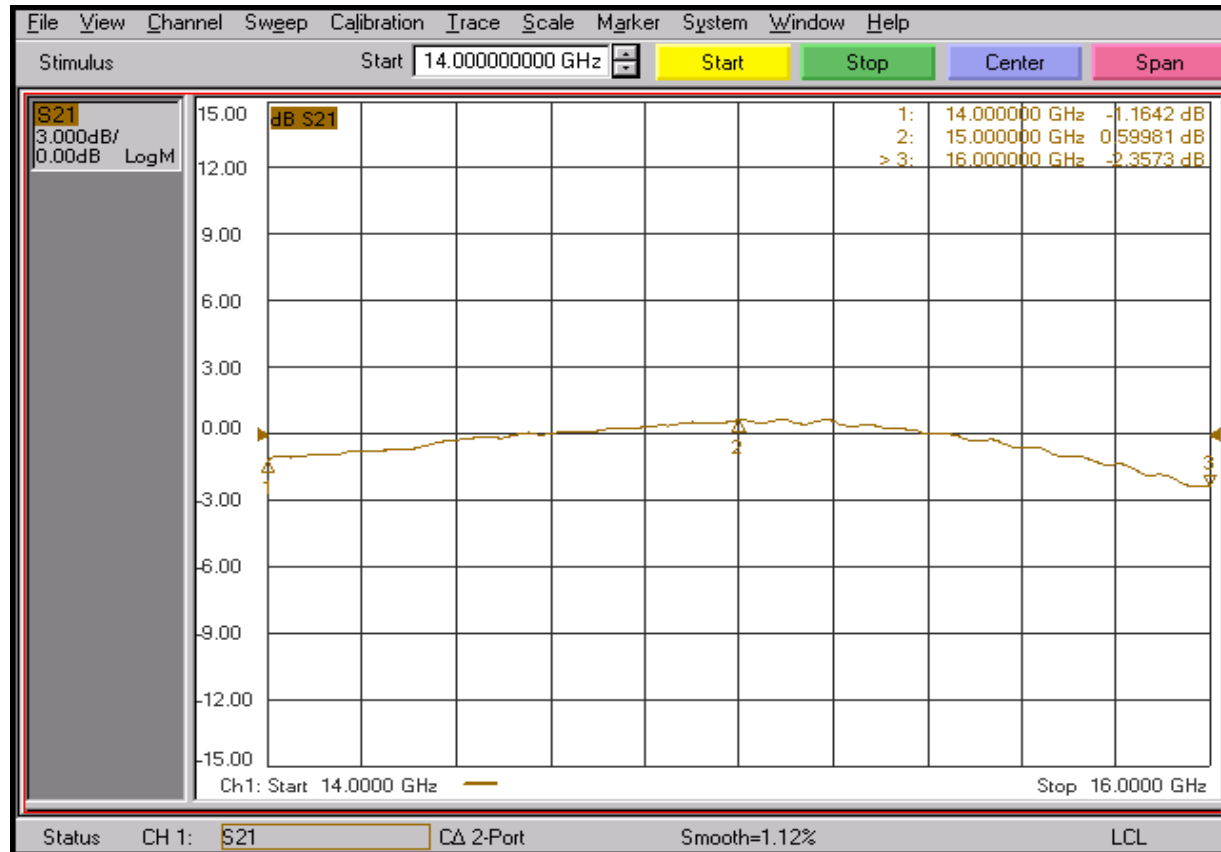
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Figure 2 - Output VSWR Plot



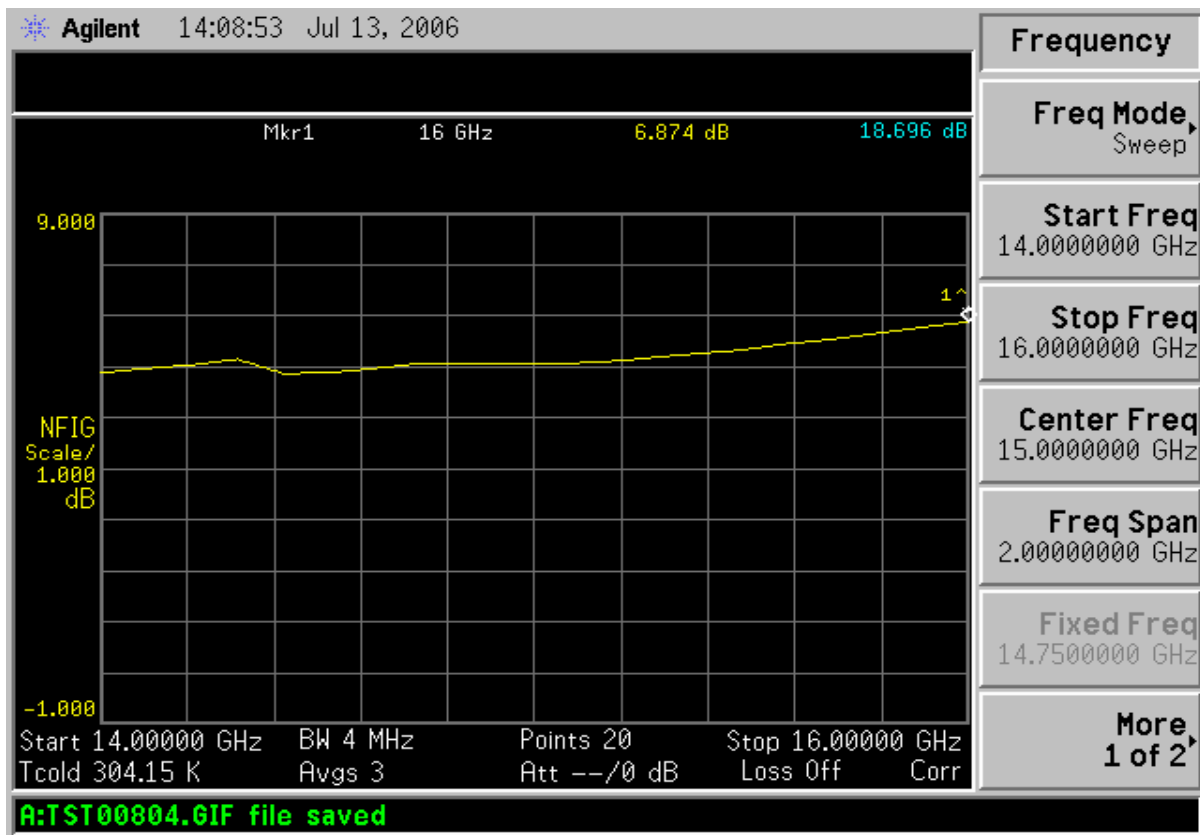
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Figure 3 - Output Power Flatness @ 20°C



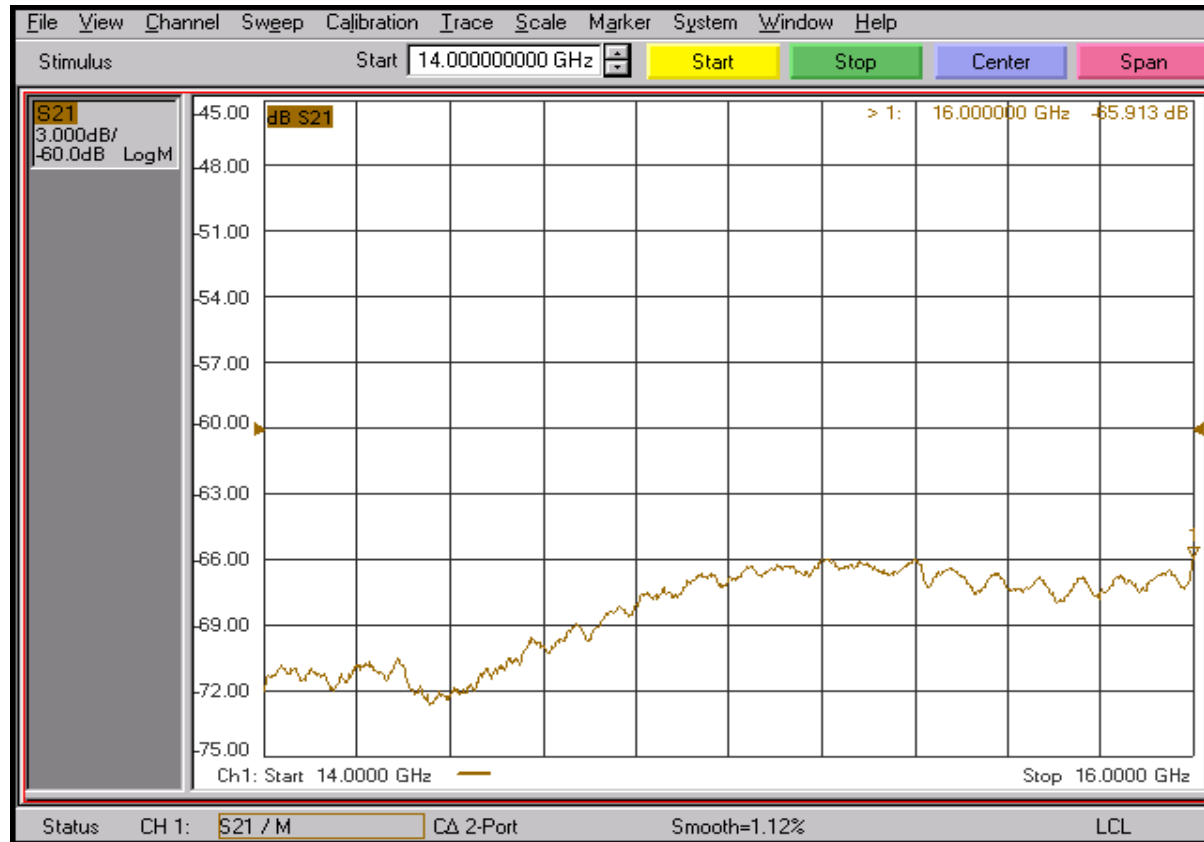
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Figure 4 - Noise Figure



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Figure 5 - RF Switch Attenuation Range



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