



**SUMMARY TEST DATA
ON
6SFB-CC-100M18G-MAH-RX-TX**

PL20384/1702

Customer: _____	Tested By: <u>Jian Xu</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>6SFB-CC-100M18G-MAH-RX-TX</u>	Date: <u>6/21/17</u>
Serial No: <u>PL20384/1702</u>	Drawing No: <u>27624332</u> Rev: <u>A1</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	J1 Input Frequency (RF RX Input)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
2	J1 Input Power Level	-80dBm to -10dBm Typical	-80dBm to -10dBm	
3	J5 Input Frequency (RF TX Input)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
4	J5 Input Power Level	-20dBm to -15dBm Typical	-20dBm to -15dBm	
5	J7 Input Frequency (RF BIT RX Input)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
6	J7 Input Power Level	-20dBm to -15dBm Typical	-20dBm to -15dBm	
7	J2 Output Frequency (RF RX Output)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
8	J2 Output Power Level	-62dBm to +8dBm Typical	-60dBm to +15dBm	
9	J6 Output Frequency (RF TX Output)	100MHz-18.0GHz	100MHz-18.0GHz See Plot	
10	J6 Output Power Level	0dBm to +10dBm Typical	+7dBm to +14dBm	
11	J1 RX Path Gain	18dB Typical	19dB to 30dB	
12	J7 RX BIT Path Insertion Loss	10dB Typical	-3dB to -9dB	
13	(J1 to J2) to (J7 to J2) RX Isolation	100dB Typical	116.51dB See Plot	
14	J5 TX Path Gain	32dB Typical	33dB to 41dB	
15	VSWR Over 90% Passband	2 : 1 Maximum	2.0:1 See Plots	



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16	Switching Speed	100ns Typical	75.0ns See Plots	
17	Thru Channel Passband	100MHz-18.0GHz	100MHz-18.0GHz See Plots	
18	Channel 1 Center Frequency	3400MHz	3400MHz	
19	Channel 1 3dB Bandwidth	2000MHz	2000MHz	
20	Channel 1 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-2.0GHz,	-45dBc See Plot	
		-40dBc Typical, -30dBc Minimum 4.8GHz-18.0GHz	-56dBc See Plot	
21	Channel 1 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-2.0GHz,	-53dBc See Plot	
		-40dBc Typical, -30dBc Minimum 4.8GHz-18.0GHz	-43dBc See Plot	
22	Channel 2 Center Frequency	5400MHz	5400MHz	
23	Channel 2 3dB Bandwidth	2000MHz	2000MHz	
24	Channel 2 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-4.0GHz,	-74dBc See Plot	
		-40dBc Typical, -30dBc Minimum 6.8GHz-18.0GHz	-37dBc See Plot	
25	Channel 2 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-4.0GHz,	-64dBc See Plot	
		-40dBc Typical, -30dBc Minimum 6.8GHz-18.0GHz	-38dBc See Plot	
26	Channel 3 Center Frequency	7400MHz	7400MHz	
27	Channel 3 3dB Bandwidth	2000MHz	2000MHz	
28	Channel 3 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-6.0GHz,	-57dBc See Plot	
		-40dBc Typical, -30dBc Minimum 8.8GHz-18.0GHz	-35dBc See Plot	



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29	Channel 3 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-6.0GHz,	-57dBc See Plot	
		-40dBc Typical, -30dBc Minimum 8.8GHz-18.0GHz	-35dBc See Plot	
30	Channel 4 Center Frequency	9400MHz	9400MHz	
31	Channel 4 3dB Bandwidth	2000MHz	2000MHz	
32	Channel 4 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-8.0GHz,	-45dBc See Plot	
		-40dBc Typical, -30dBc Minimum 10.8GHz-18.0GHz	-39dBc See Plot	
33	Channel 4 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-8.0GHz,	-48dBc See Plot	
		-40dBc Typical, -30dBc Minimum 10.8GHz-18.0GHz	-36dBc See Plot	
34	Channel 5 Center Frequency	11400MHz	11400MHz	
35	Channel 5 3dB Bandwidth	2000MHz	2000MHz	
36	Channel 5 RX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-10.0GHz,	-68dBc See Plot	
		-40dBc Typical, -30dBc Minimum 12.8GHz-18.0GHz	-47dBc See Plot	
37	Channel 5 TX Rejection	-40dBc Typical, -30dBc Minimum 100MHz-10.0GHz,	-65dBc See Plot	
		-40dBc Typical, -30dBc Minimum 12.8GHz-18.0GHz	-47dBc See Plot	
38	Control Logic	TTL '0': 0V to 0.8V TTL '1': 2V to 5V	Pass	



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QA/QC Approval:

Date:

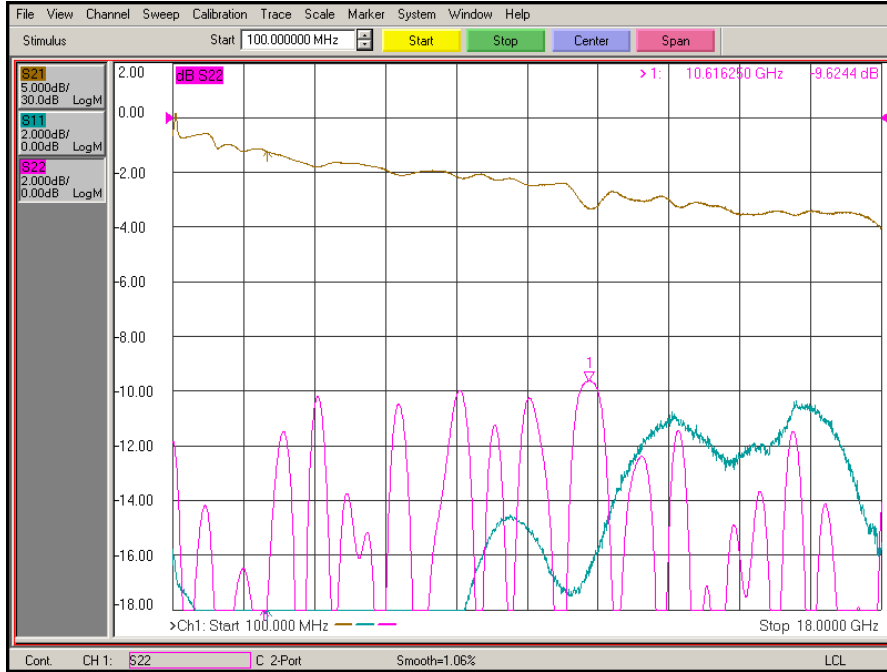
39	Power Supplies	+12V @ 600mA Max +5V @ 550mA Max -12V @ 300mA Max	+12V @ 415mA +5V @ 82mA -12V @ 134mA	
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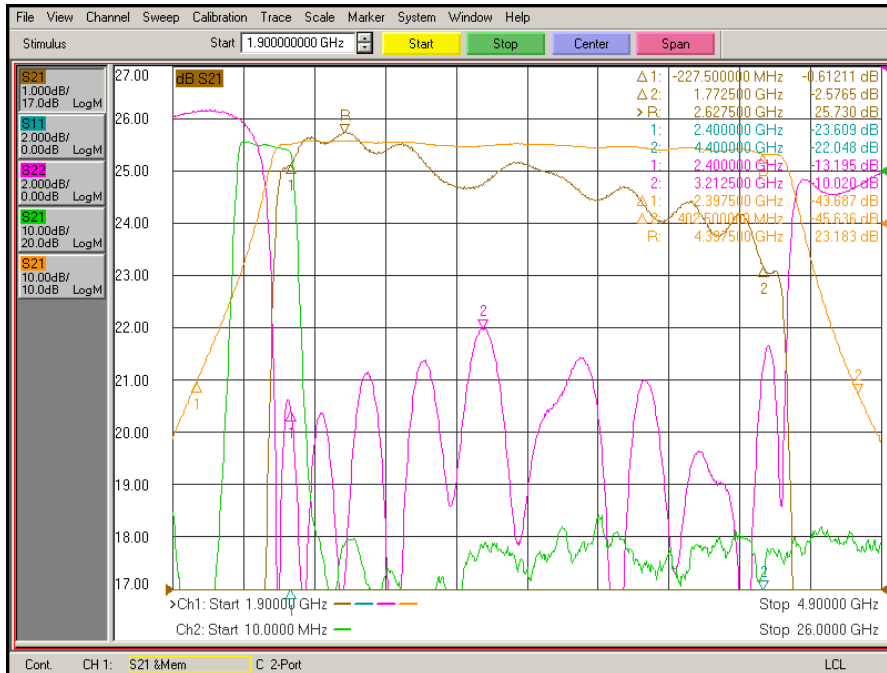
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RX High Gain Thru Path (J1 RX IN)



RX Ch1 High Gain Path (J1 RX IN)

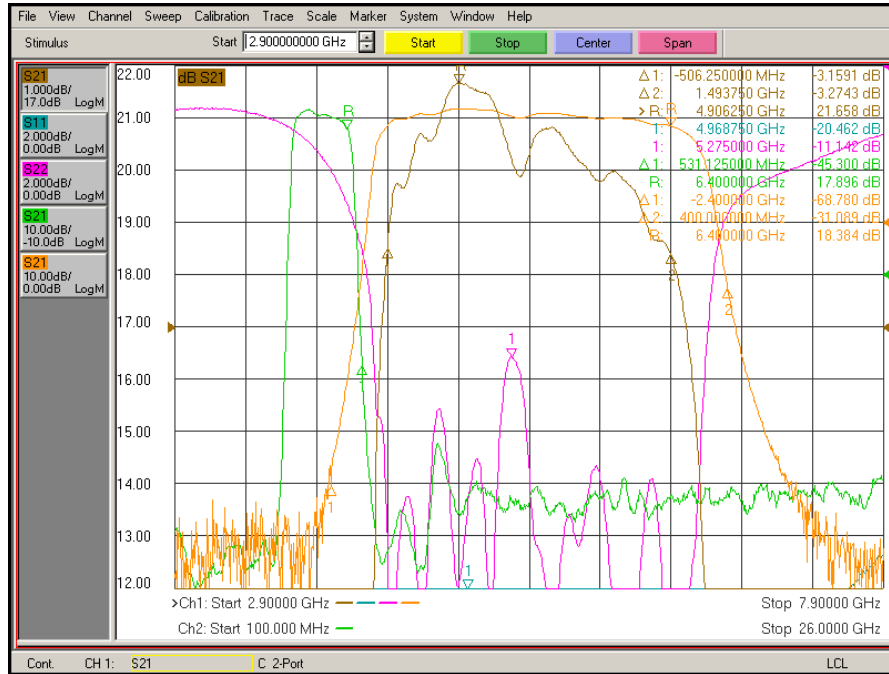




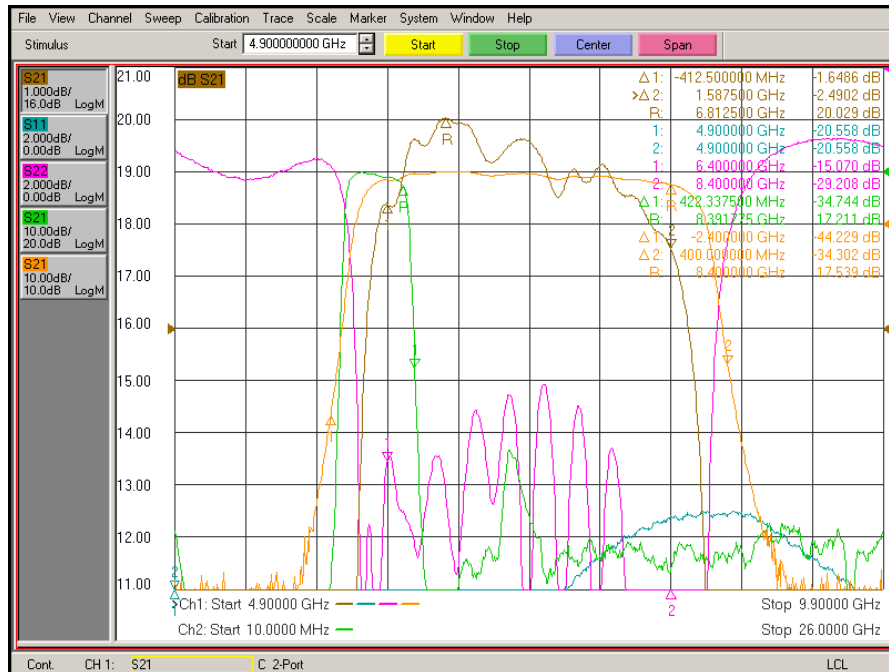
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RX Ch2 High Gain Path (J1 RX IN)



RX Ch3 High Gain Path (J1 RX IN)

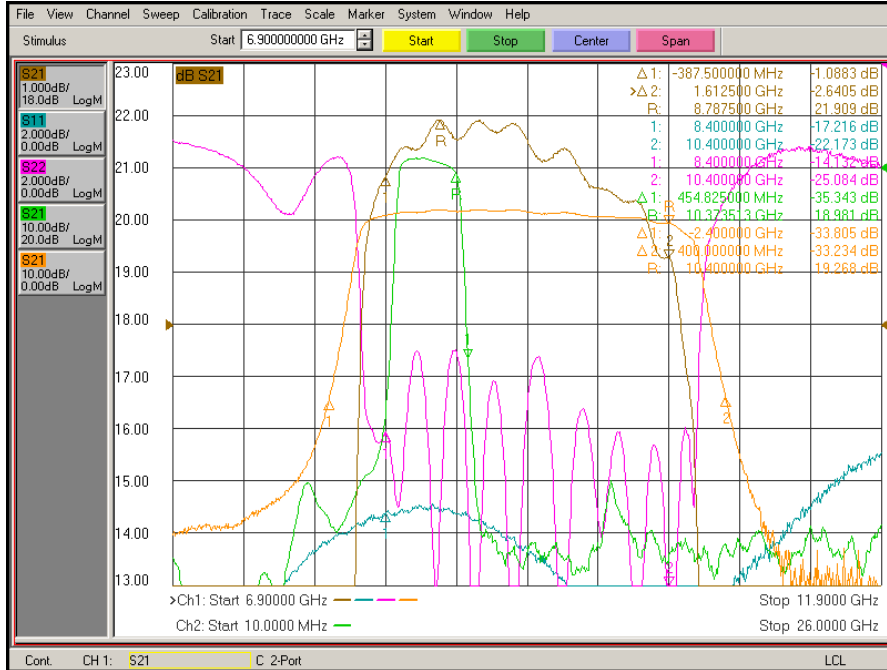




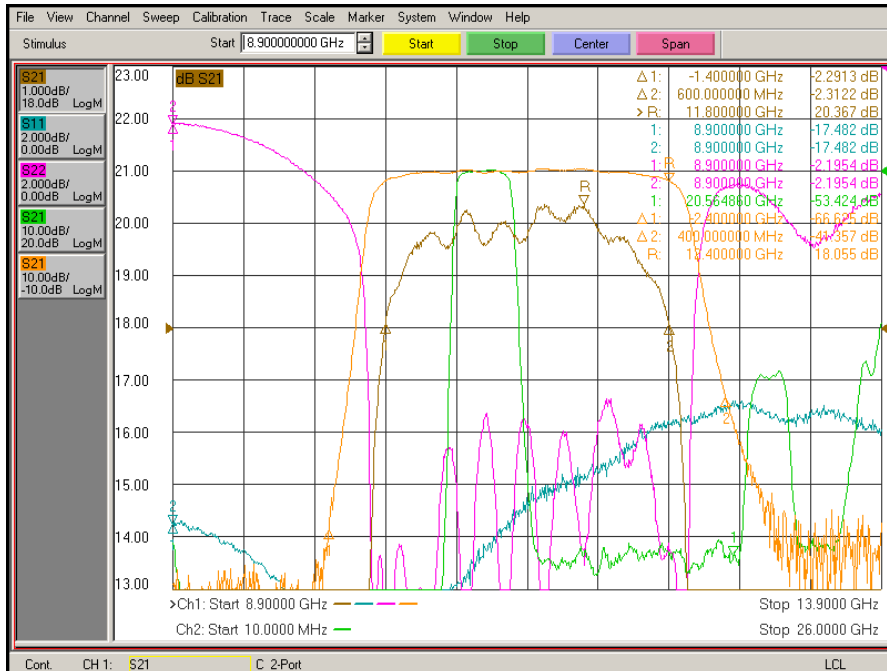
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RX Ch4 High Gain Path (J1 RX IN)



RX Ch5 High Gain Path (J1 RX IN)

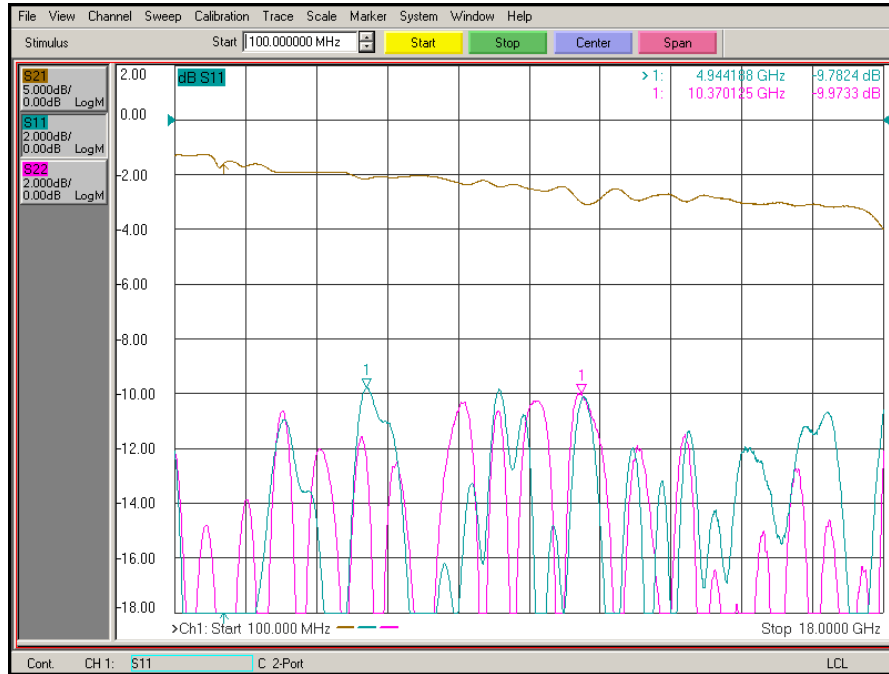




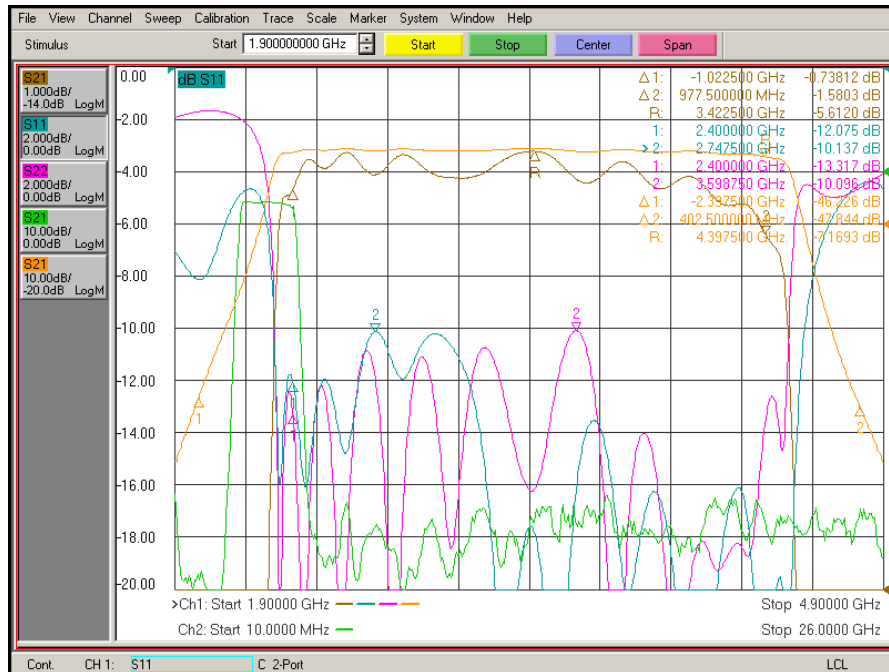
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RX Low Gain Thru Path (J7 RX BIT IN)



RX Ch1 Low Gain Path (J7 RX BIT IN)

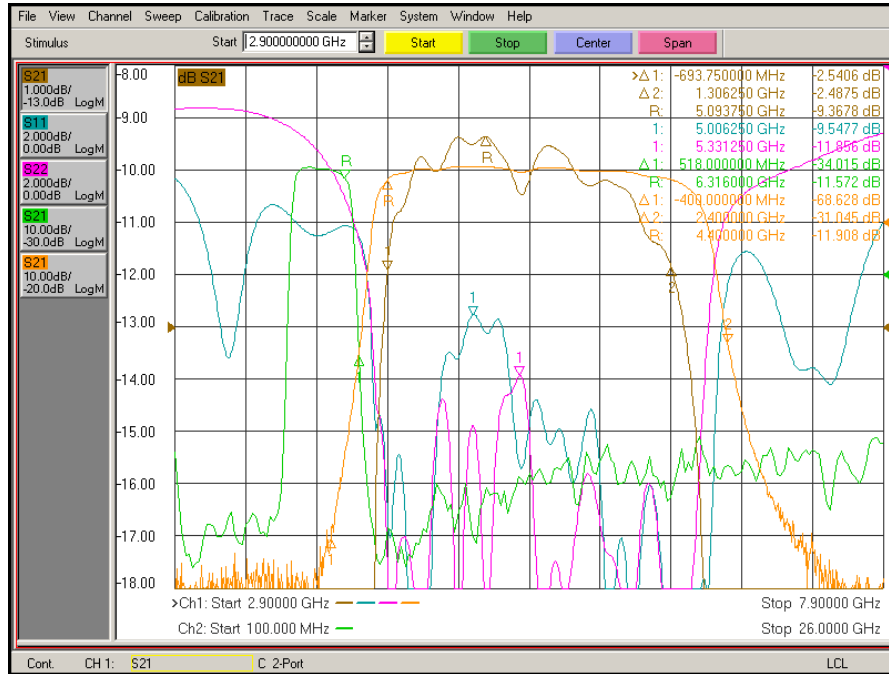




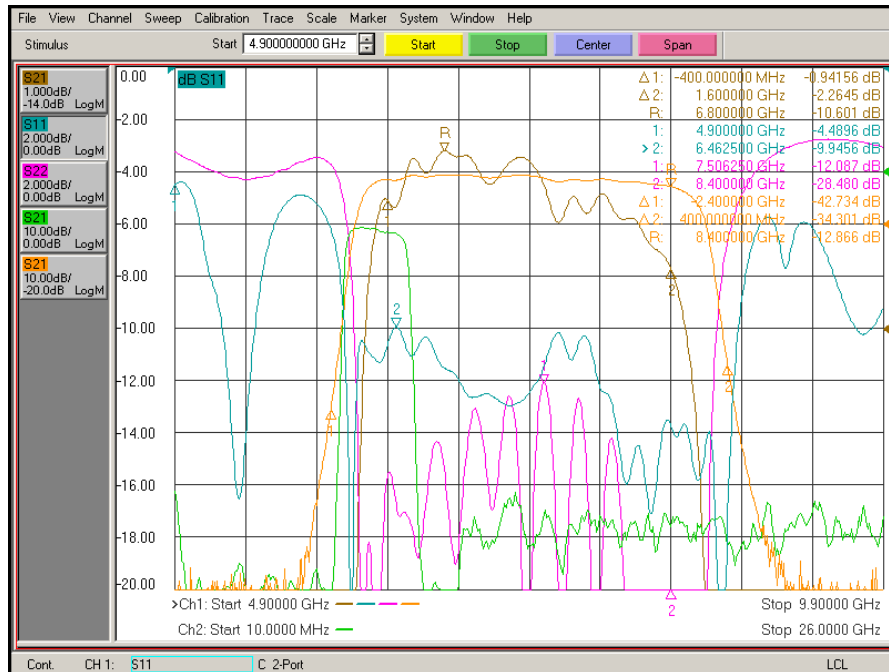
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RX Ch2 Low Gain Path (J7 RX BIT IN)



RX Ch3 Low Gain Path (J7 RX BIT IN)

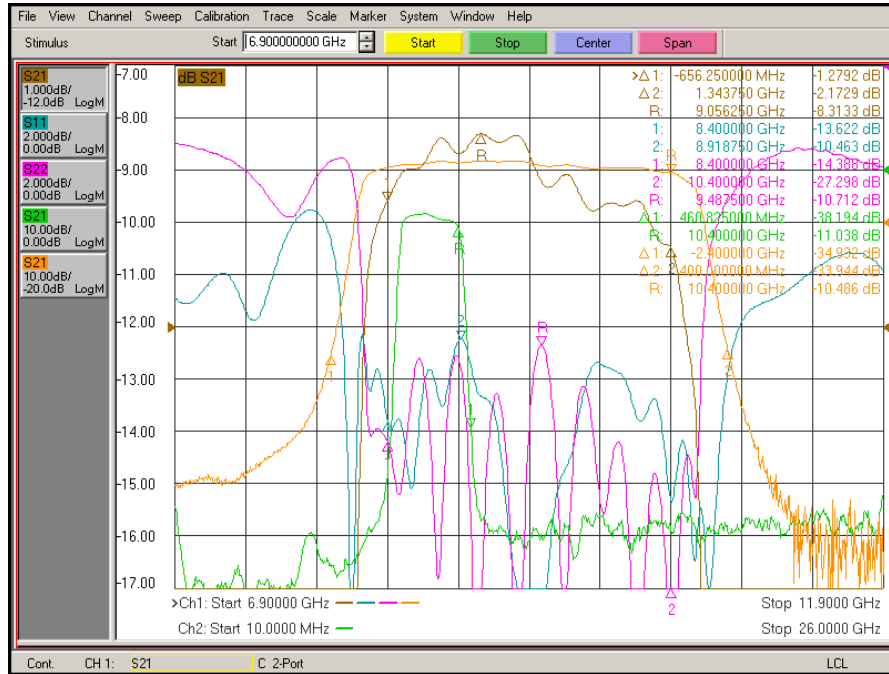




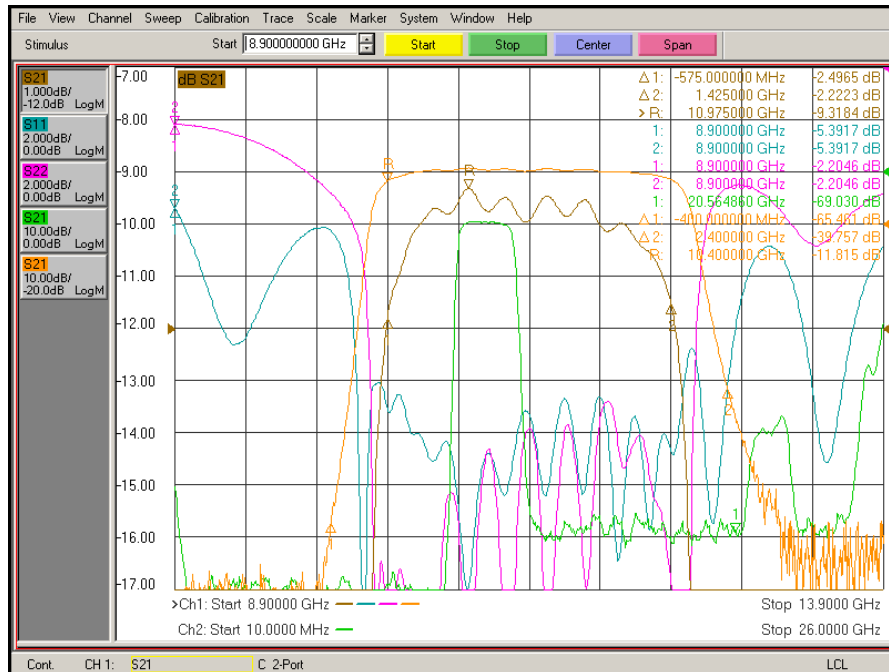
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RX Ch4 Low Gain Path (J7 RX BIT IN)



RX Ch5 Low Gain Path Narrow Band (J7 RX BIT IN)

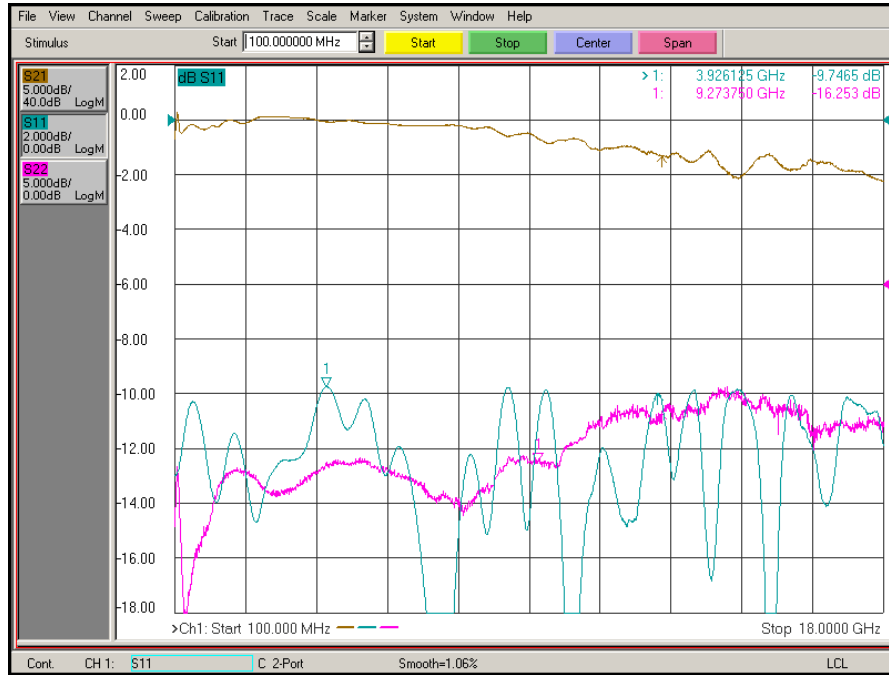




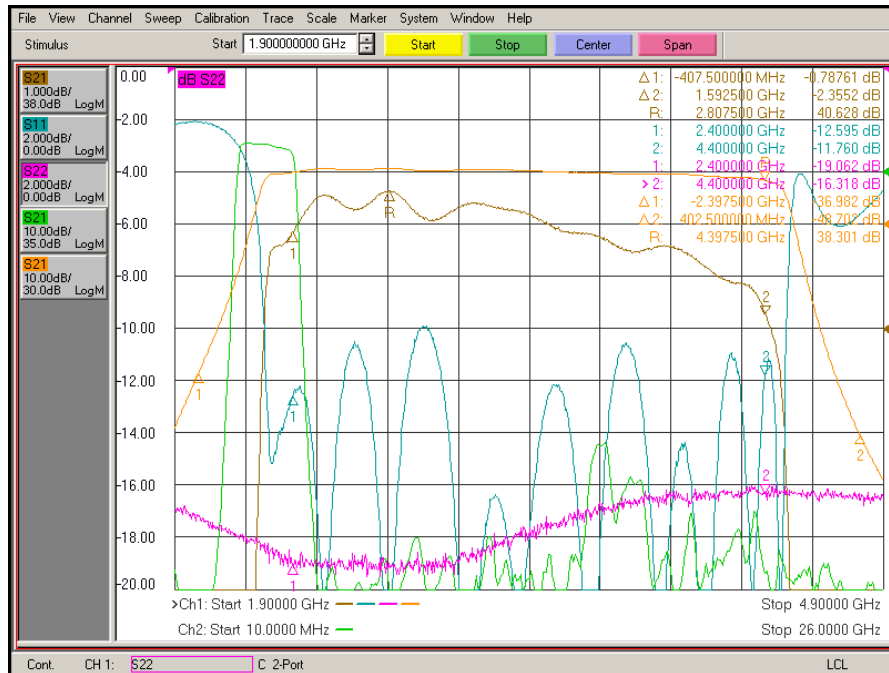
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TX Thru Path



TX Ch1 Path



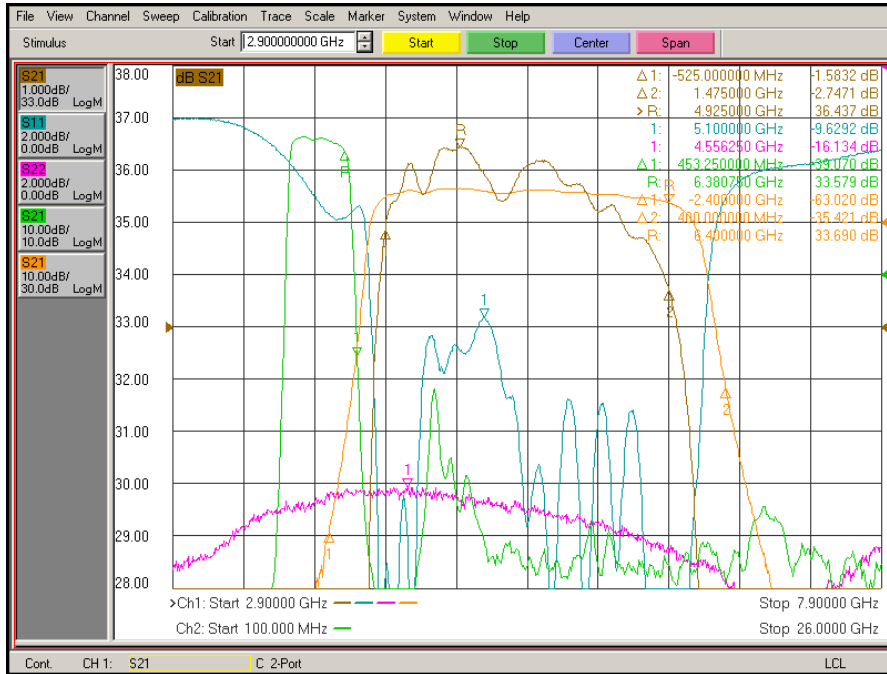
7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com



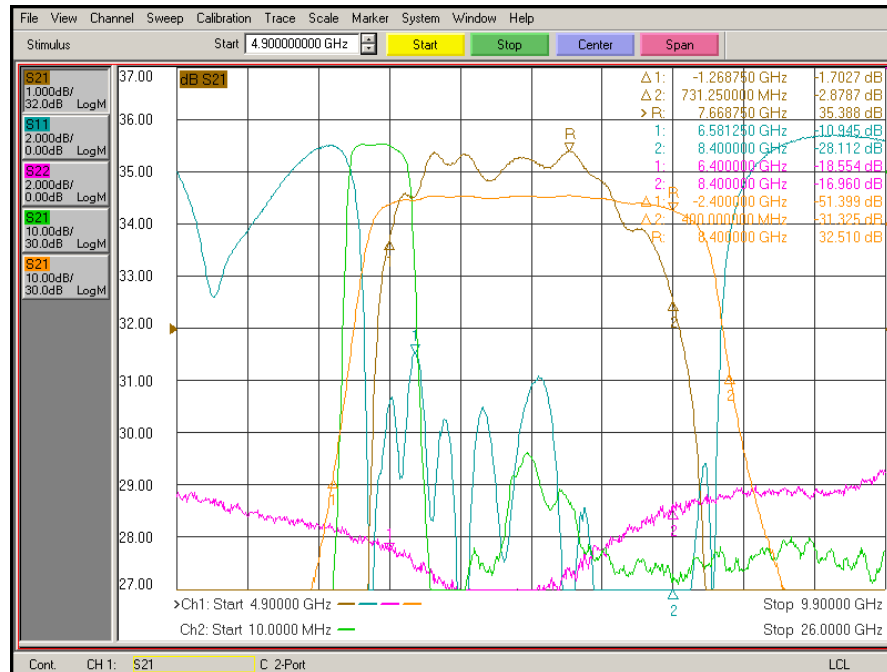
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TX Ch2 Path



TX Ch3 Path

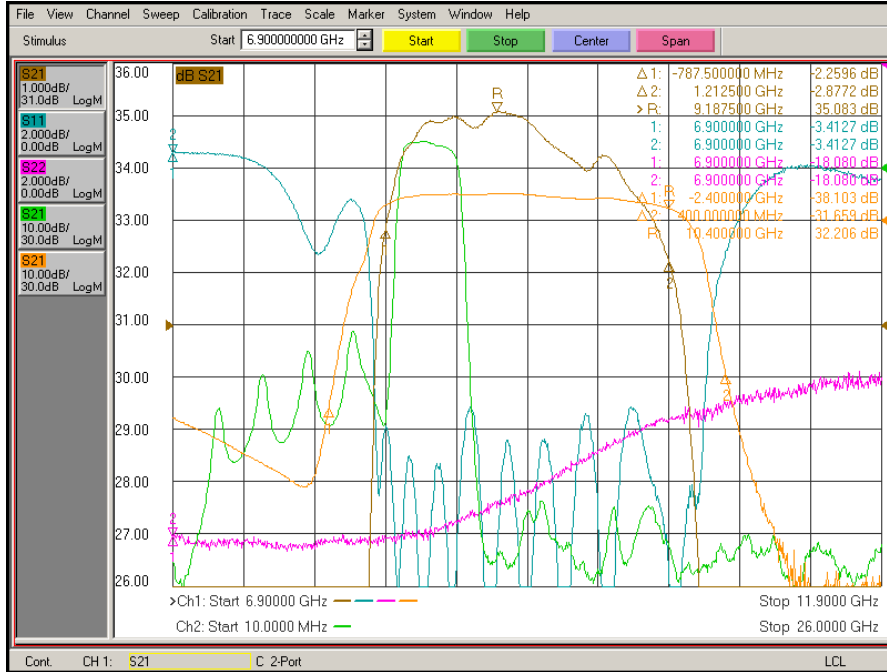




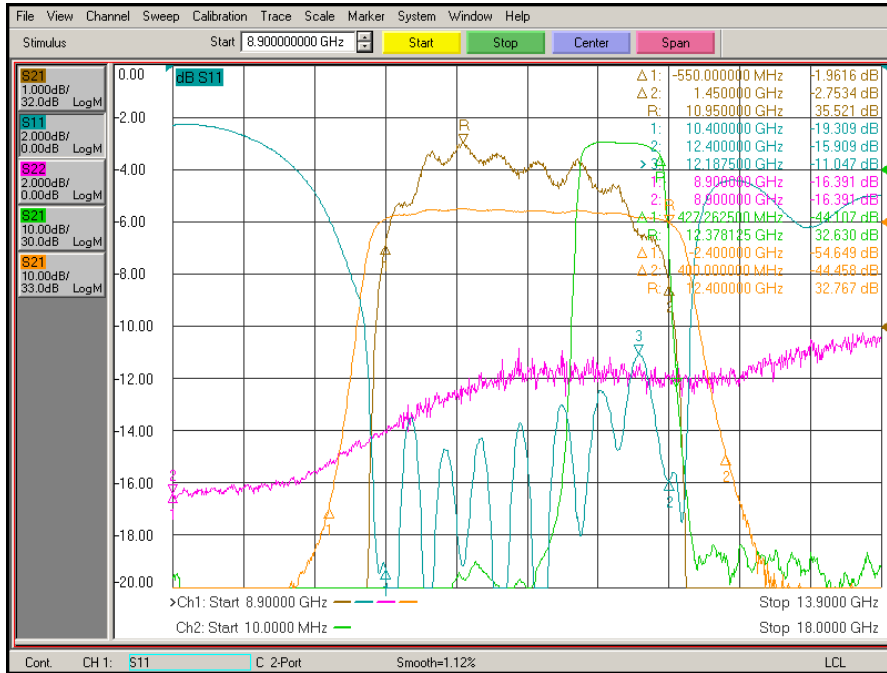
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TX Ch4 Path



TX Ch5 Path



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