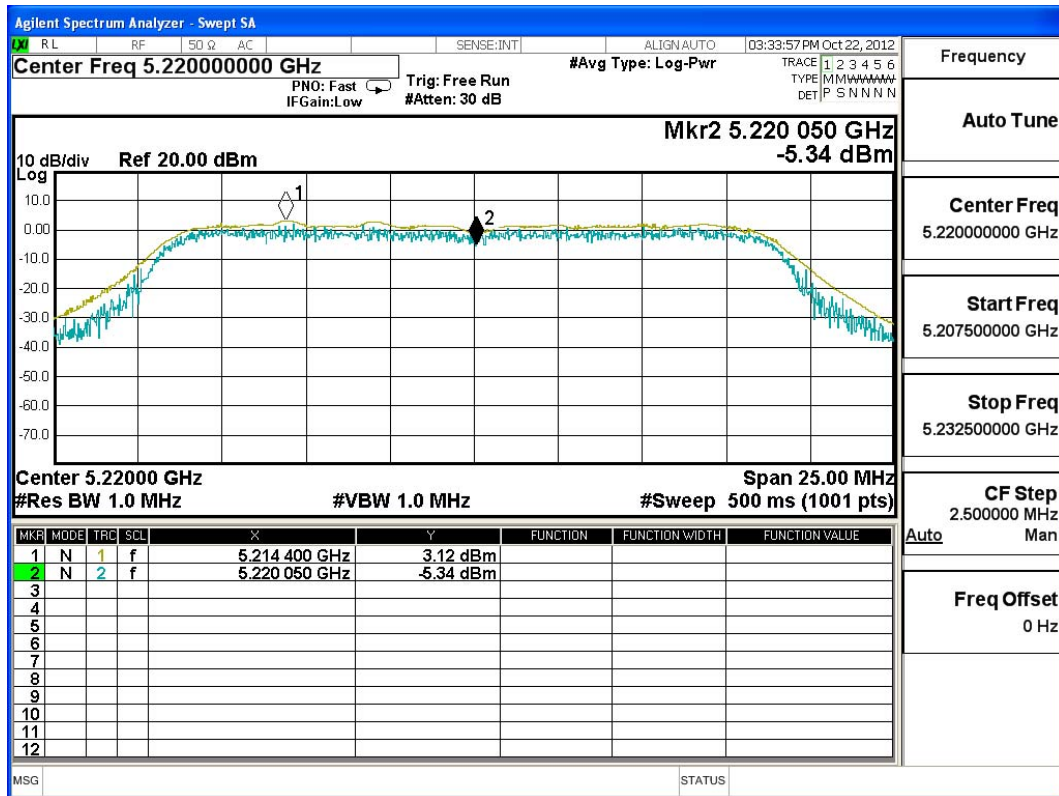
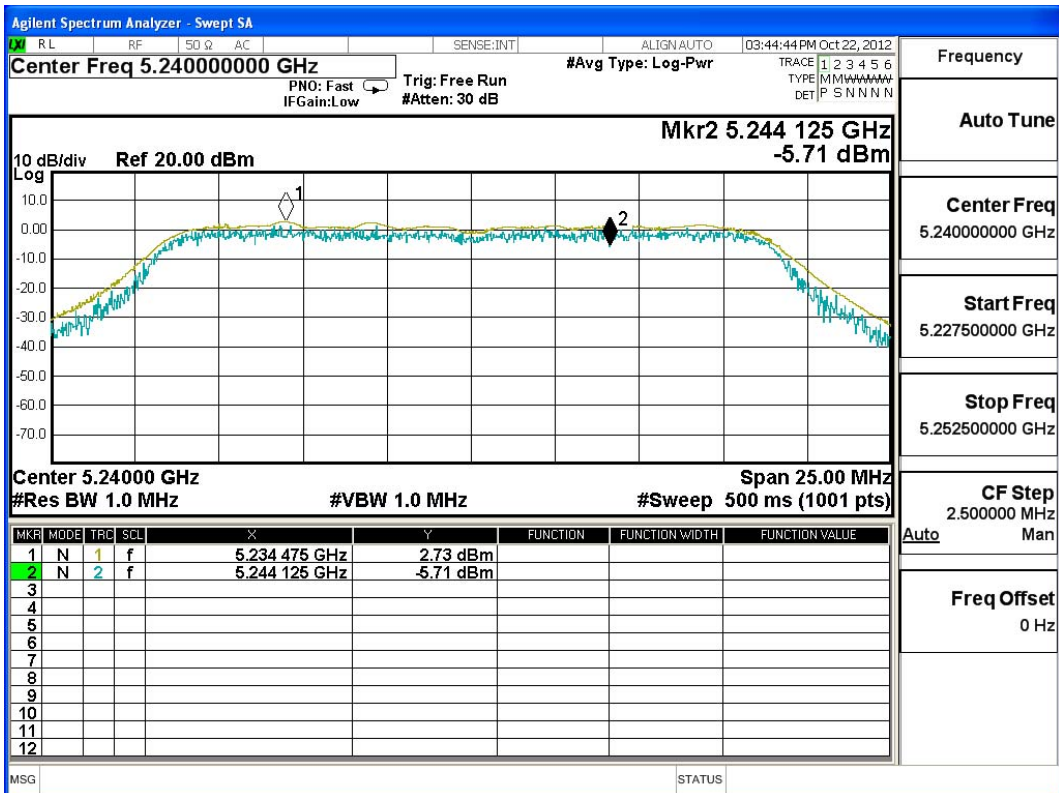


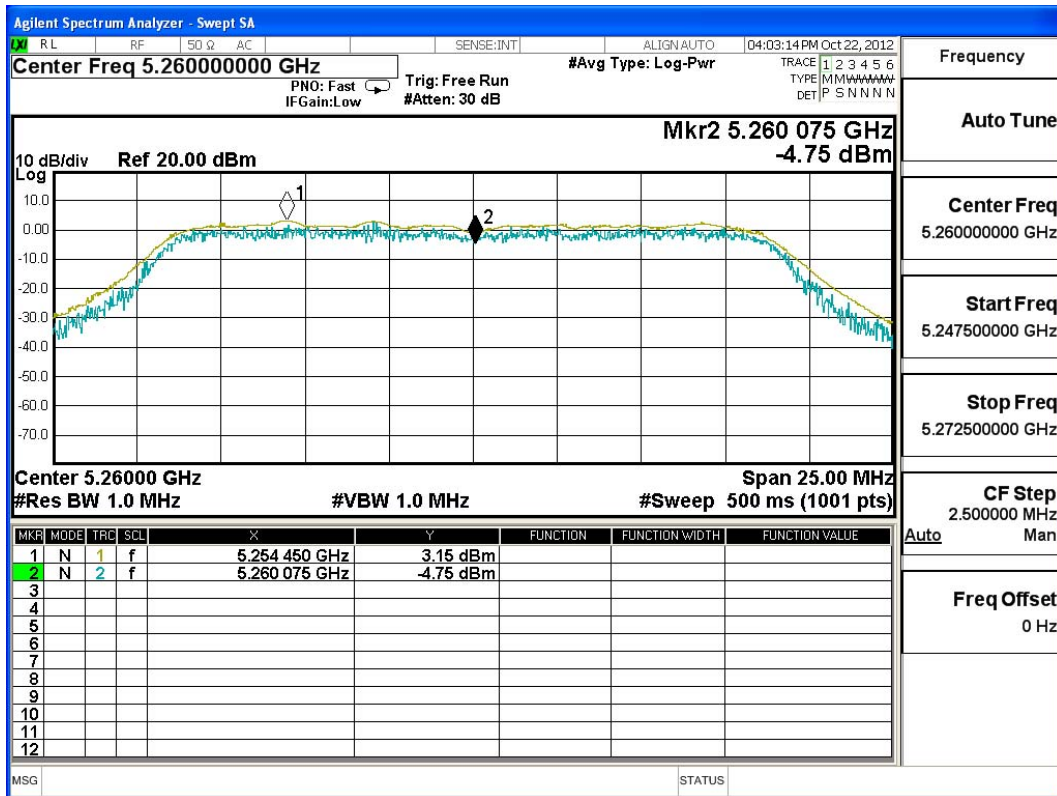
Channel 44:



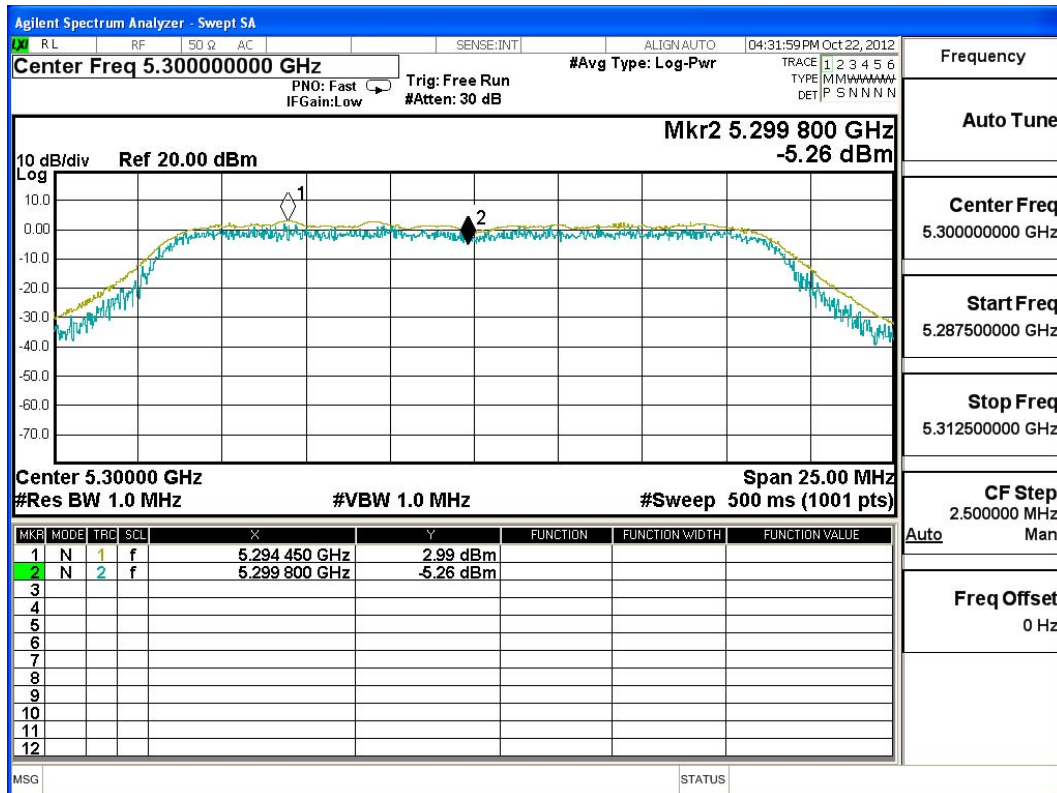
Channel 48:



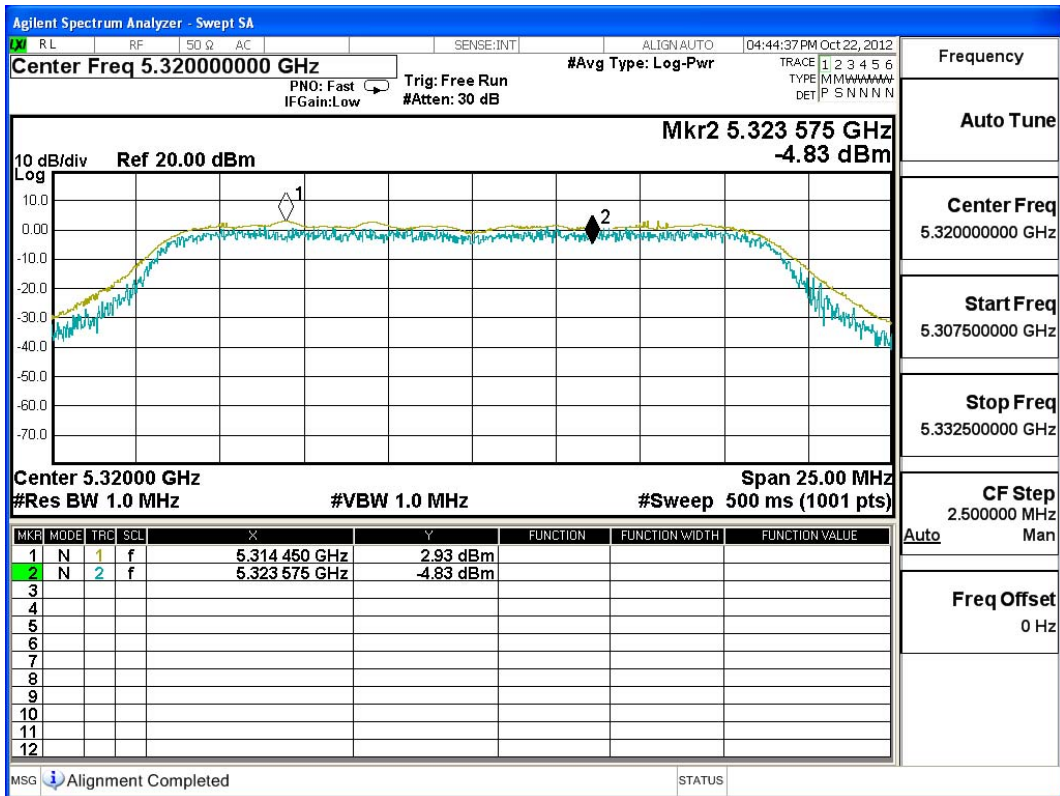
Channel 52:



Channel 60:

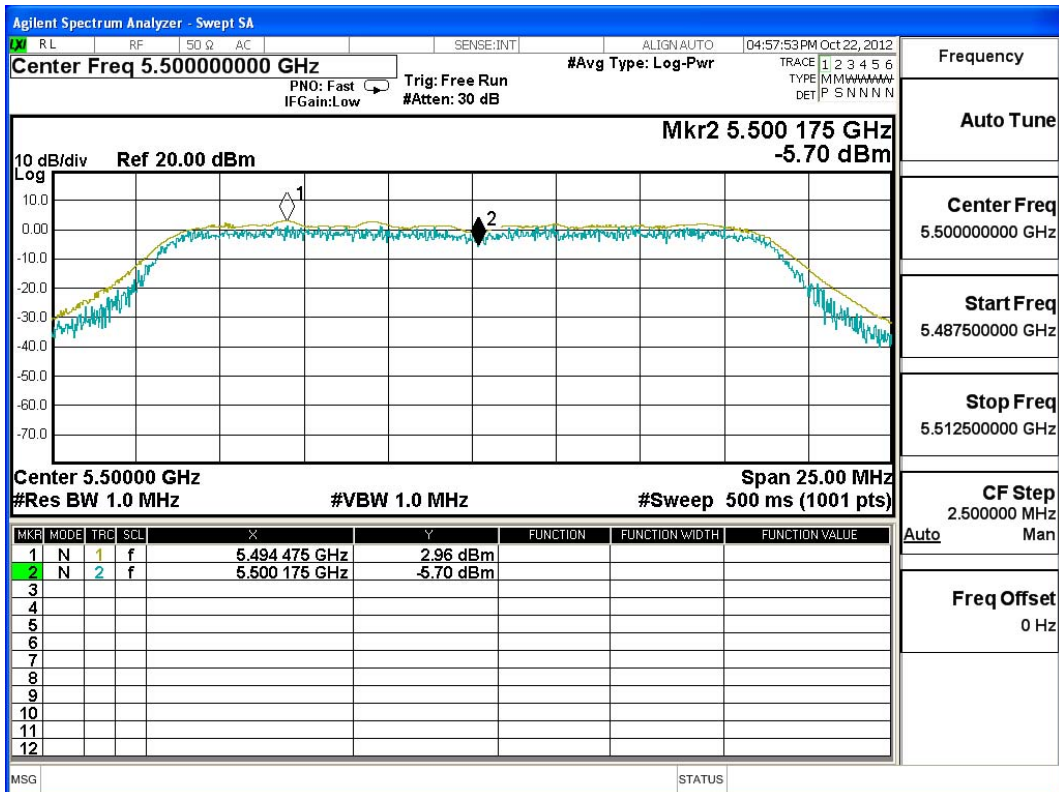


Channel 64:



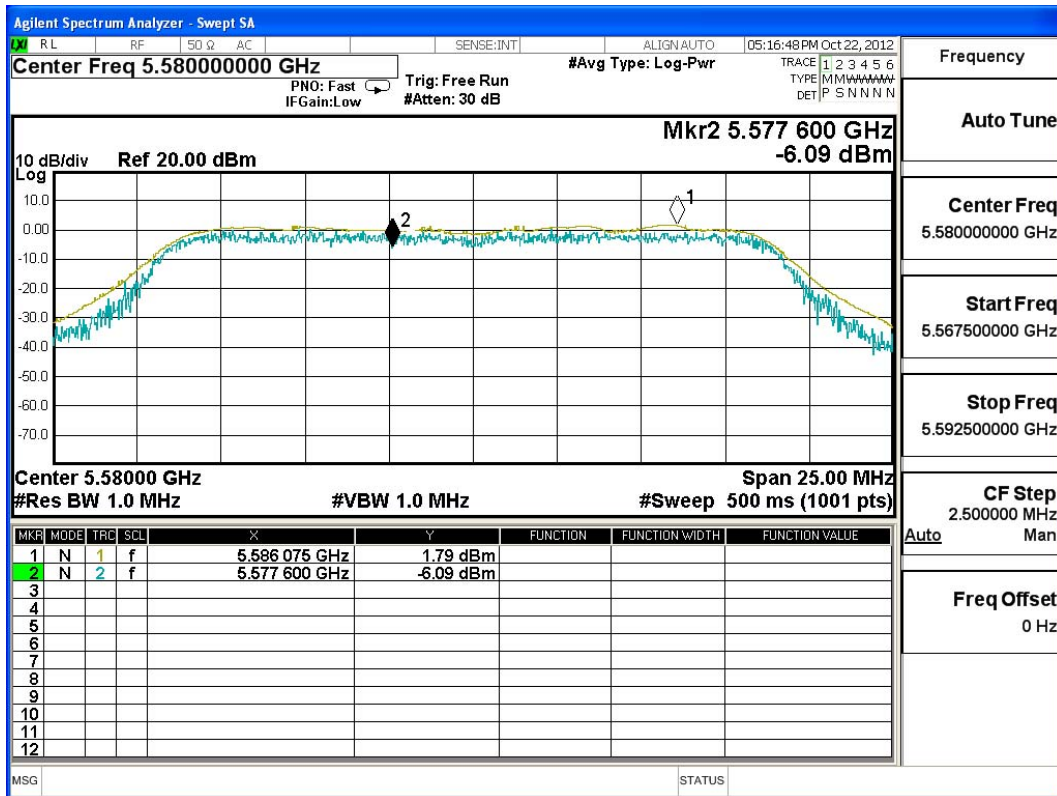
Frequency
Auto Tune
Center Freq 5.32000000 GHz
Start Freq 5.307500000 GHz
Stop Freq 5.332500000 GHz
CF Step 2.500000 MHz Auto Man
Freq Offset 0 Hz

Channel 100:

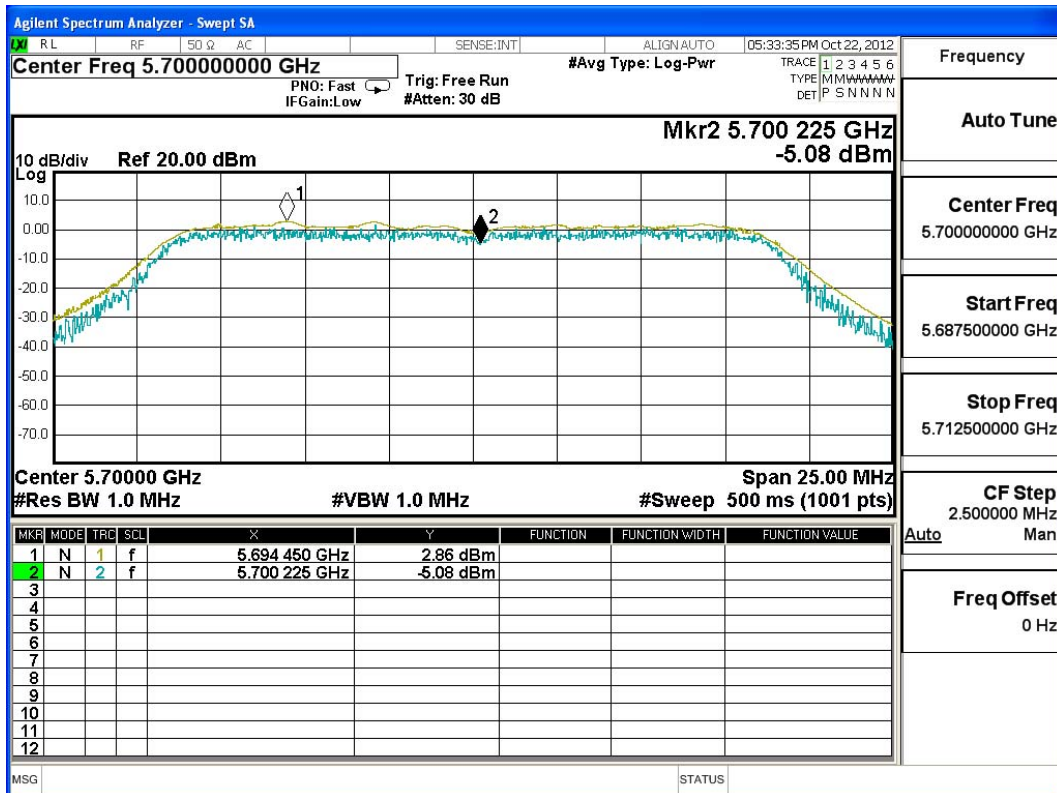


Frequency
Auto Tune
Center Freq 5.500000000 GHz
Start Freq 5.487500000 GHz
Stop Freq 5.512500000 GHz
CF Step 2.500000 MHz Auto Man
Freq Offset 0 Hz

Channel 116:



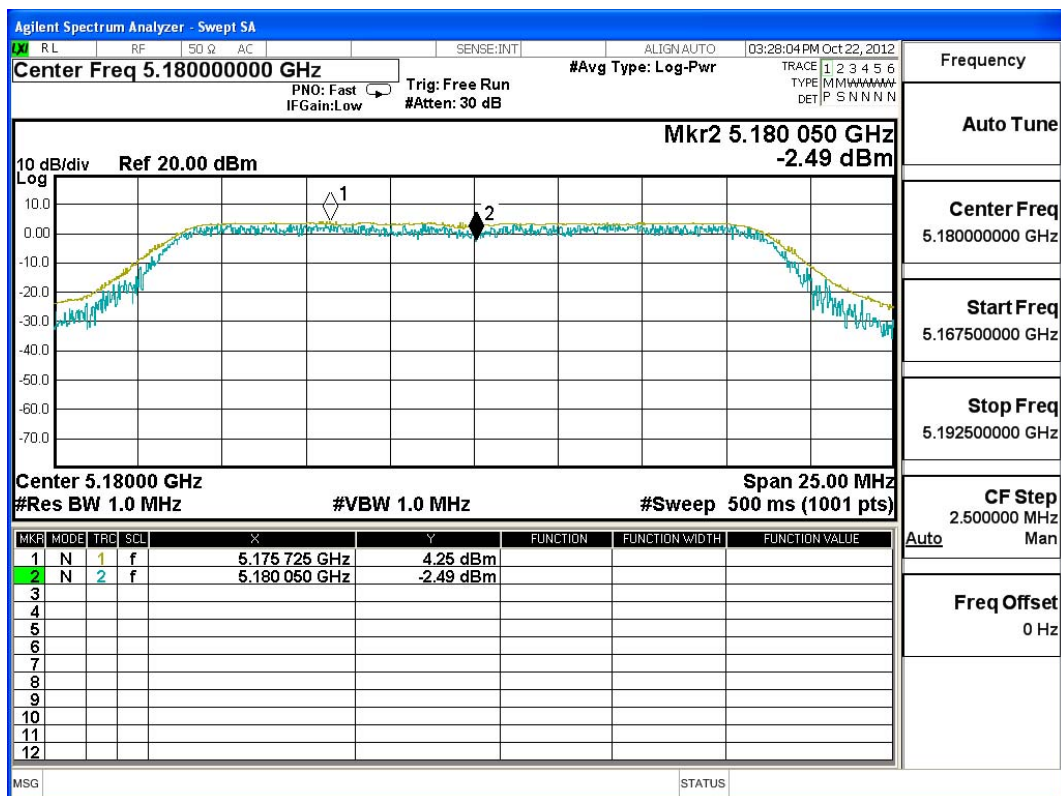
Channel 140:



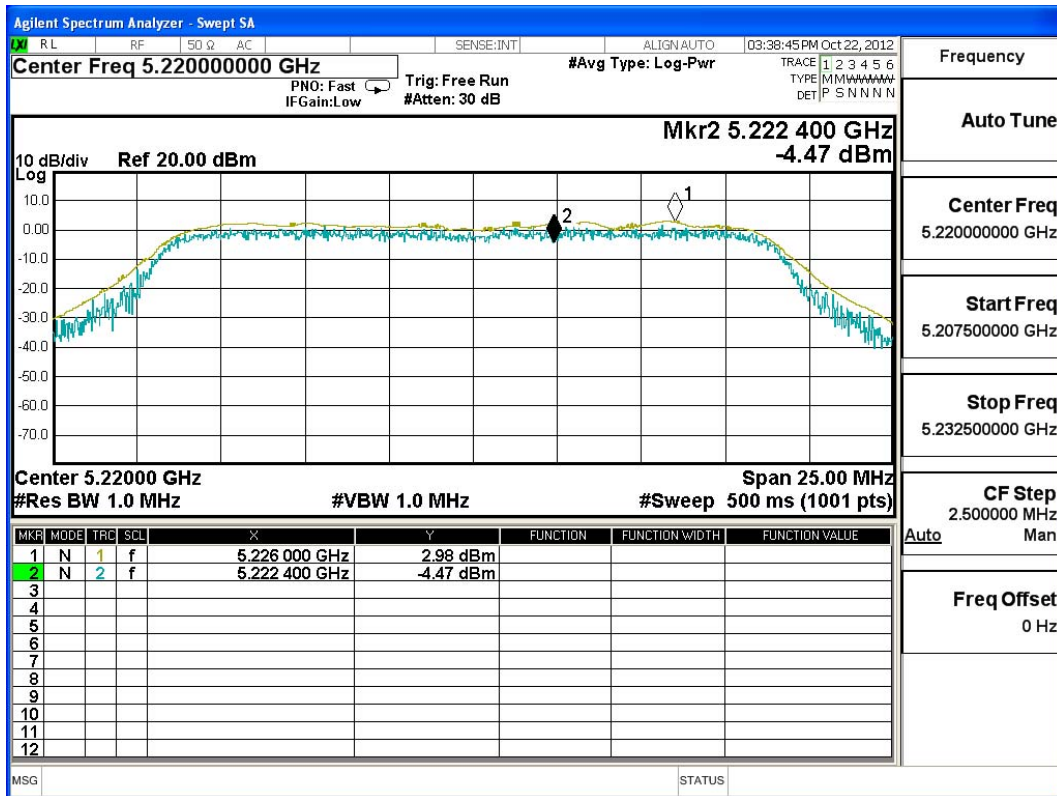
Chain B

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	6.740	<13	Pass
44	5220	7.450	<13	Pass
48	5240	8.100	<13	Pass
52	5260	7.990	<13	Pass
60	5300	8.190	<13	Pass
64	5320	7.320	<13	Pass
100	5500	7.410	<13	Pass
116	5580	8.140	<13	Pass
140	5700	7.960	<13	Pass

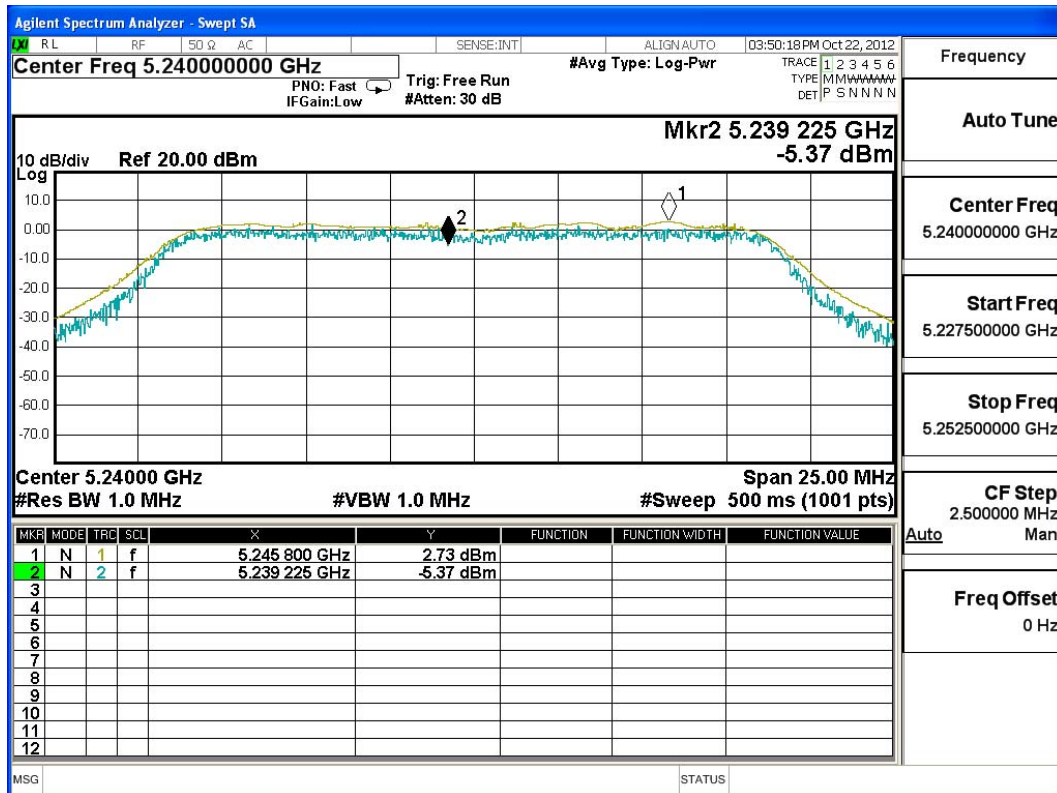
Channel 36:



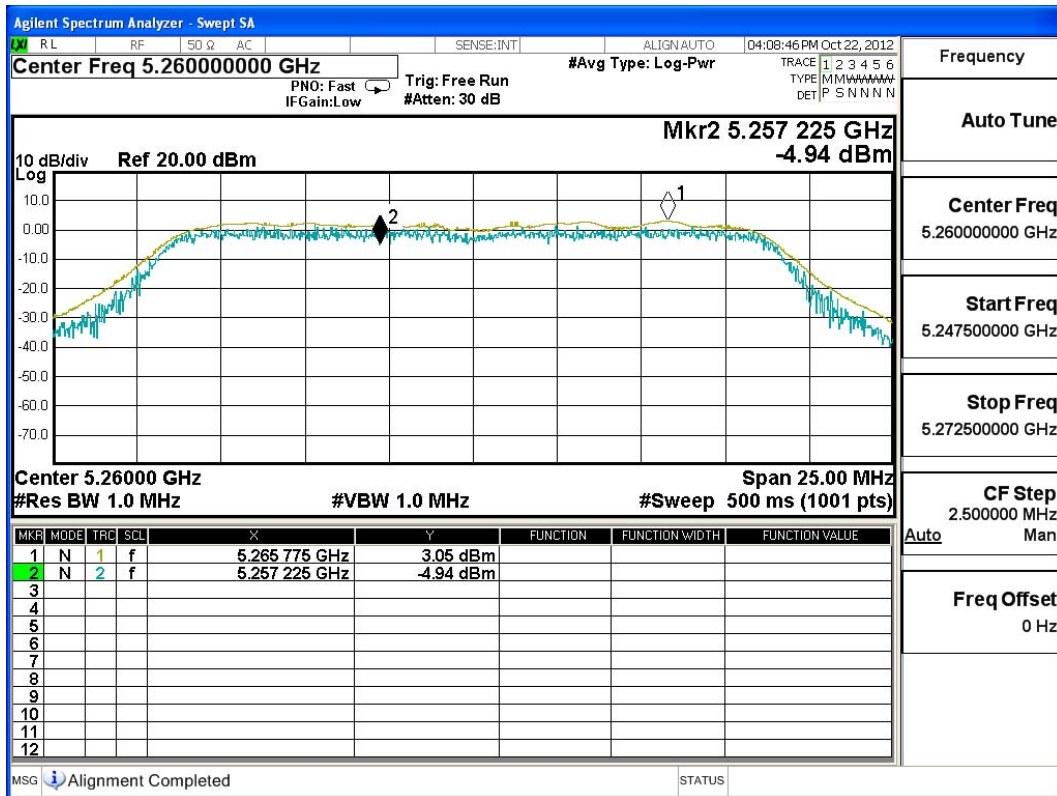
Channel 44:



Channel 48:

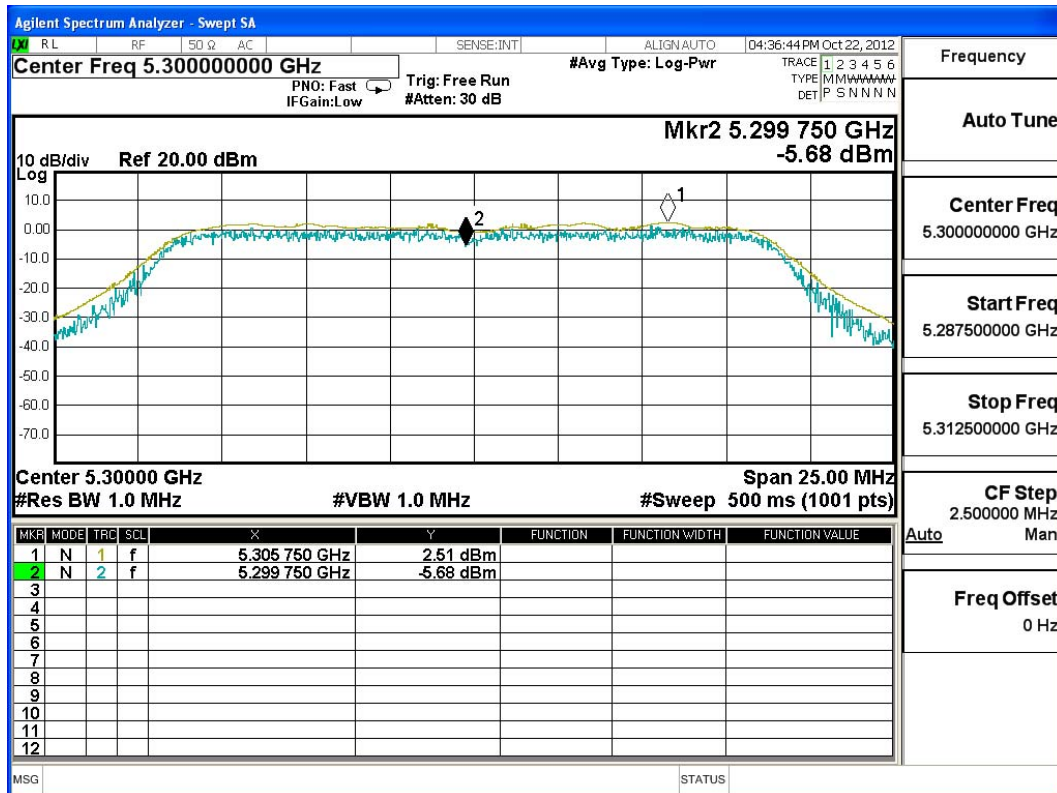


Channel 52:



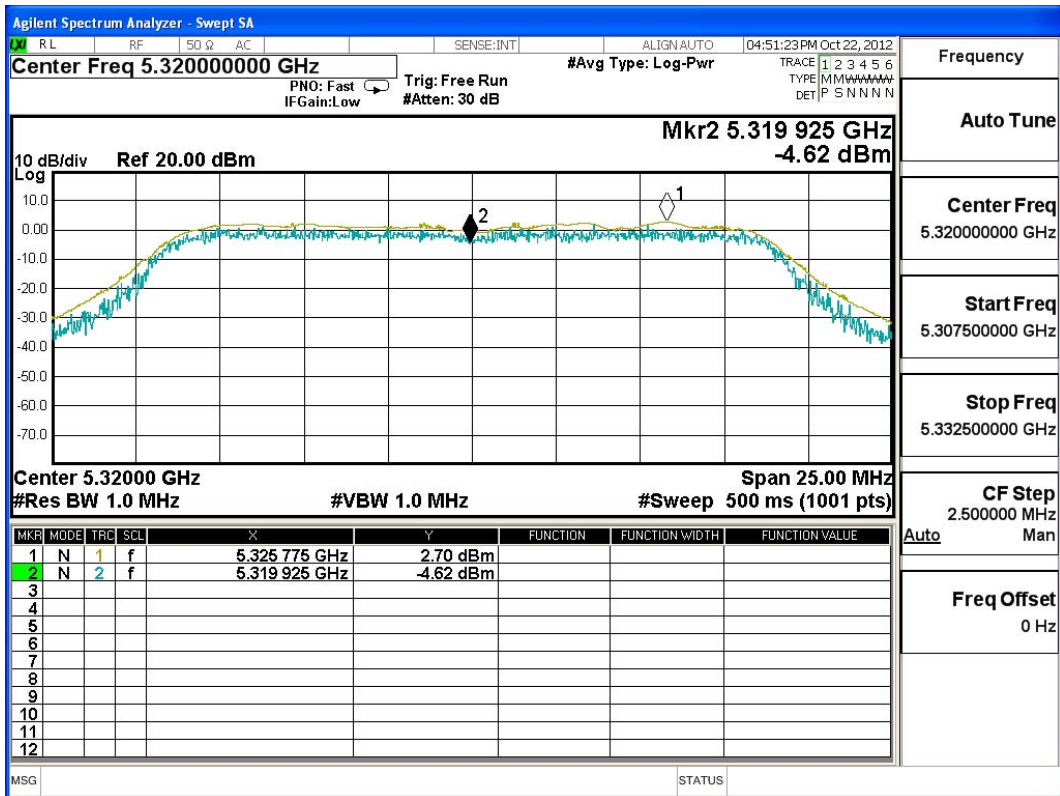
Frequency	
Auto Tune	
Center Freq	5.26000000 GHz
Start Freq	5.24750000 GHz
Stop Freq	5.27250000 GHz
CF Step	2.500000 MHz
Auto	Man
Freq Offset	0 Hz

Channel 60:

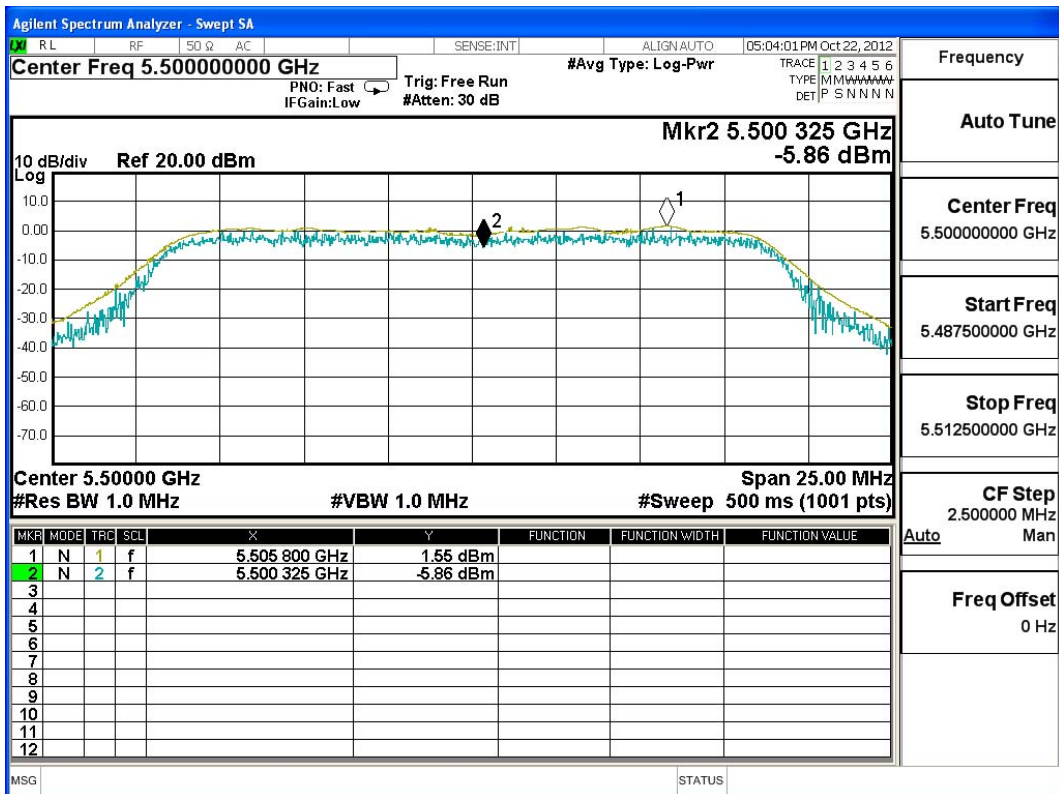


Frequency	
Auto Tune	
Center Freq	5.30000000 GHz
Start Freq	5.28750000 GHz
Stop Freq	5.31250000 GHz
CF Step	2.500000 MHz
Auto	Man
Freq Offset	0 Hz

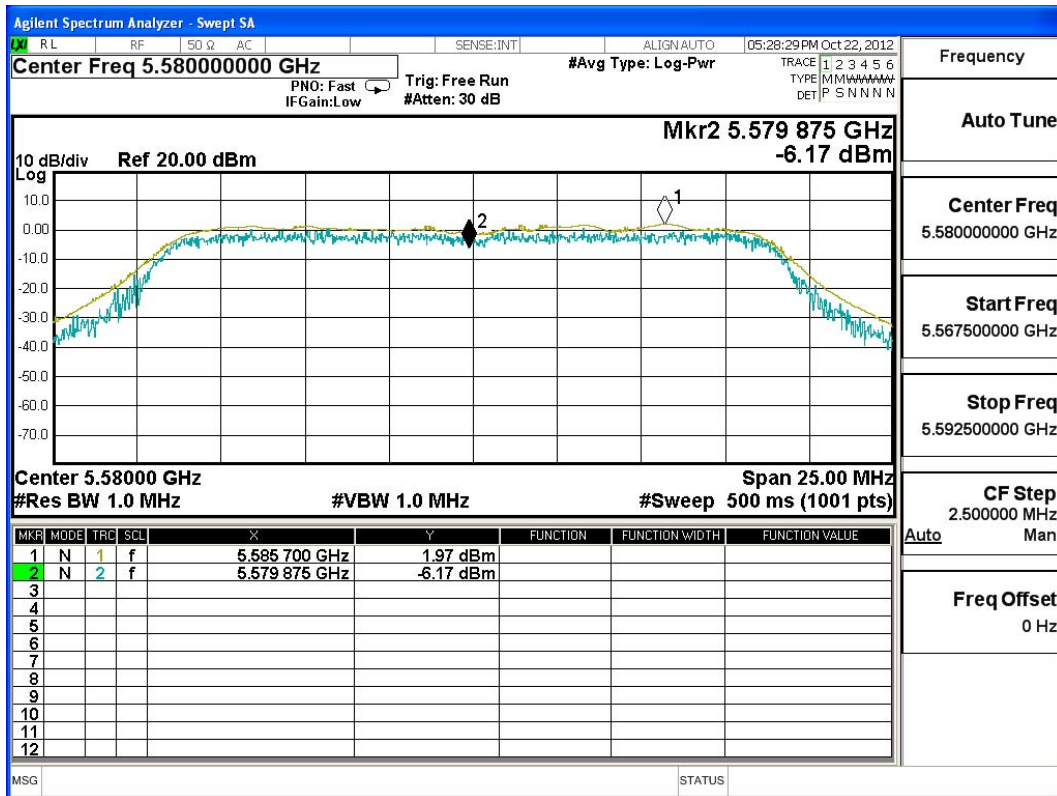
Channel 64:



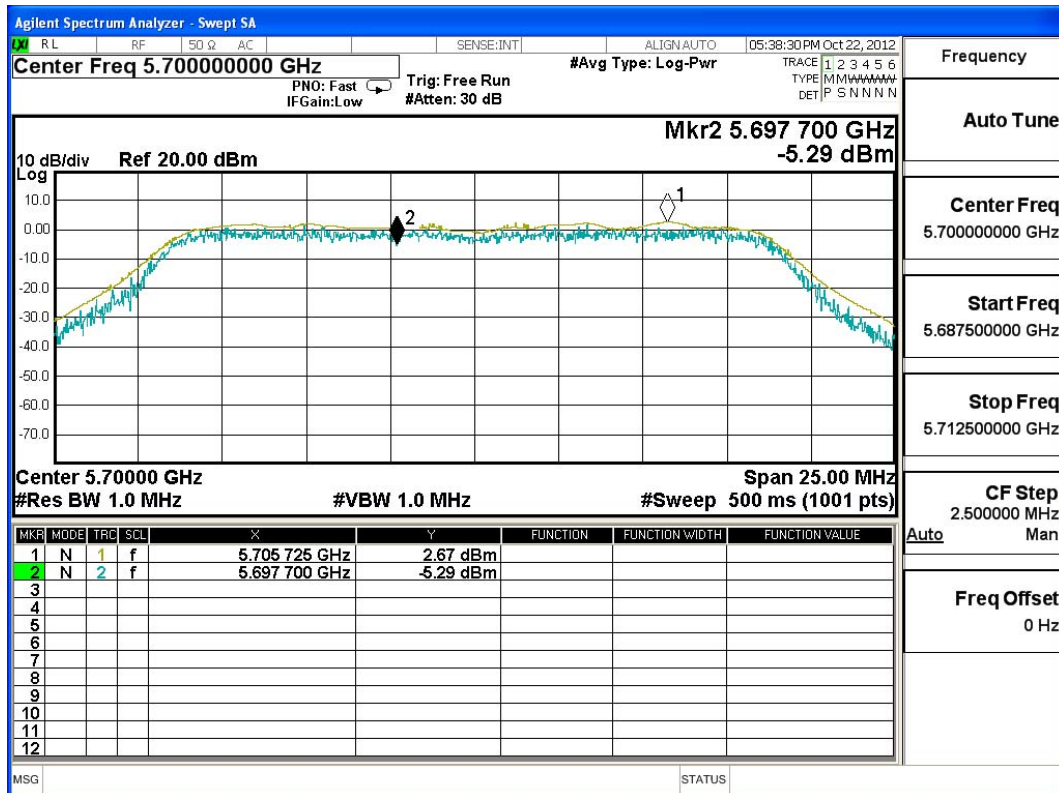
Channel 100:



Channel 116:



Channel 140:

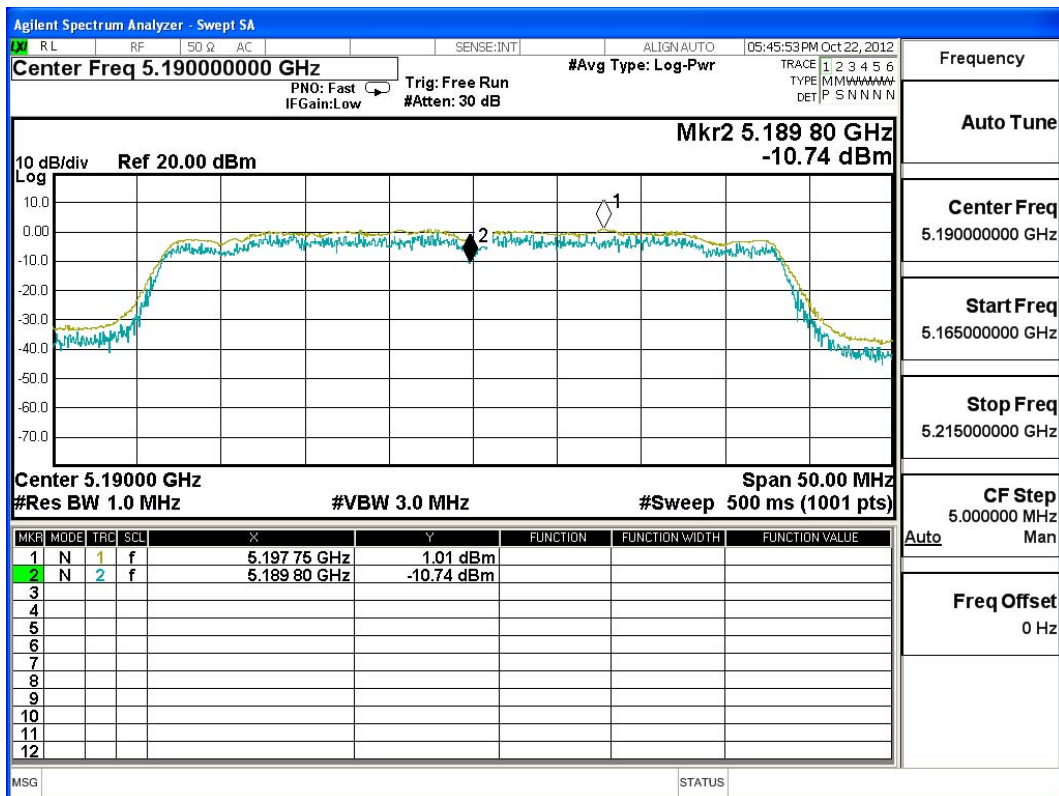


Product : Notebook PC
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps)

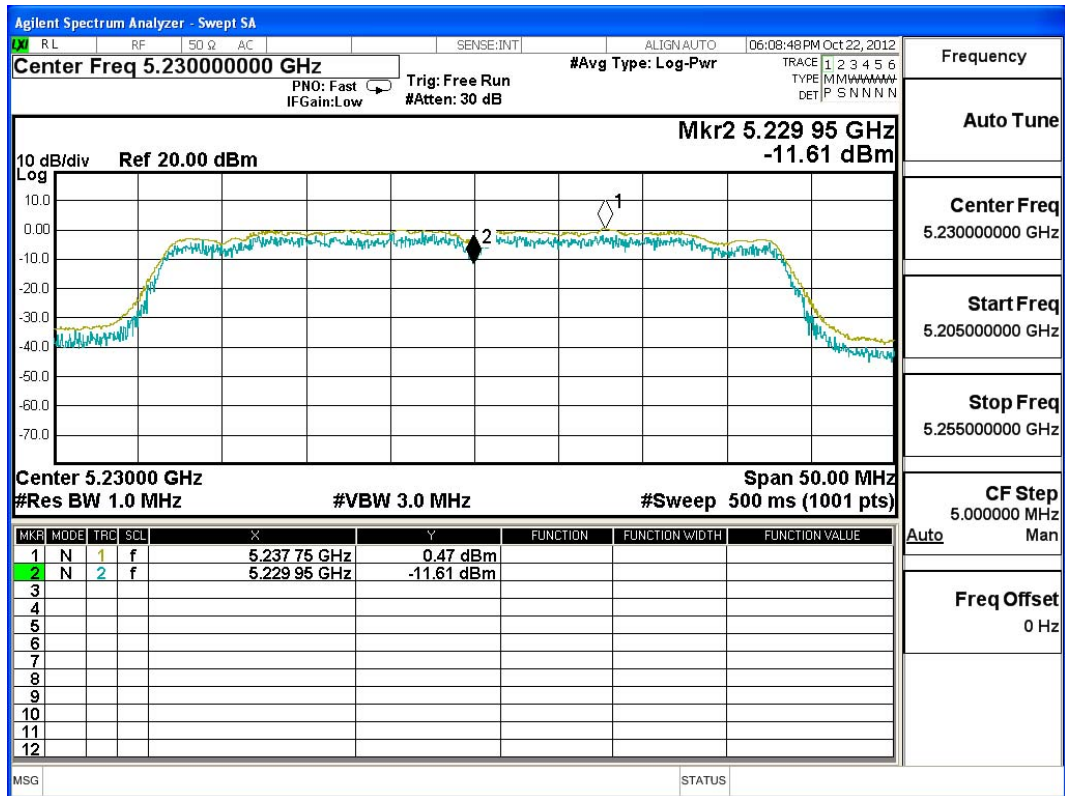
Chain A

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
38	5190	11.750	<13	Pass
46	5230	12.080	<13	Pass
54	5270	11.300	<13	Pass
62	5310	12.870	<13	Pass
102	5510	12.940	<13	Pass
118	5590	12.530	<13	Pass
134	5670	11.870	<13	Pass

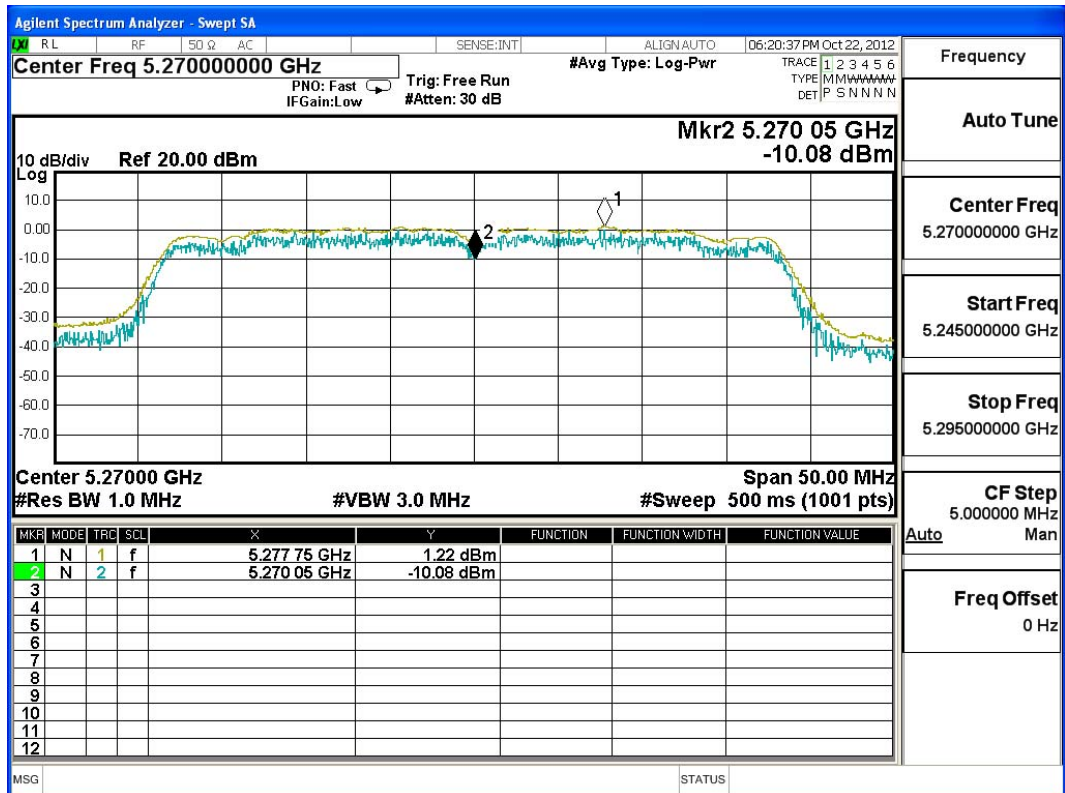
Channel 38:



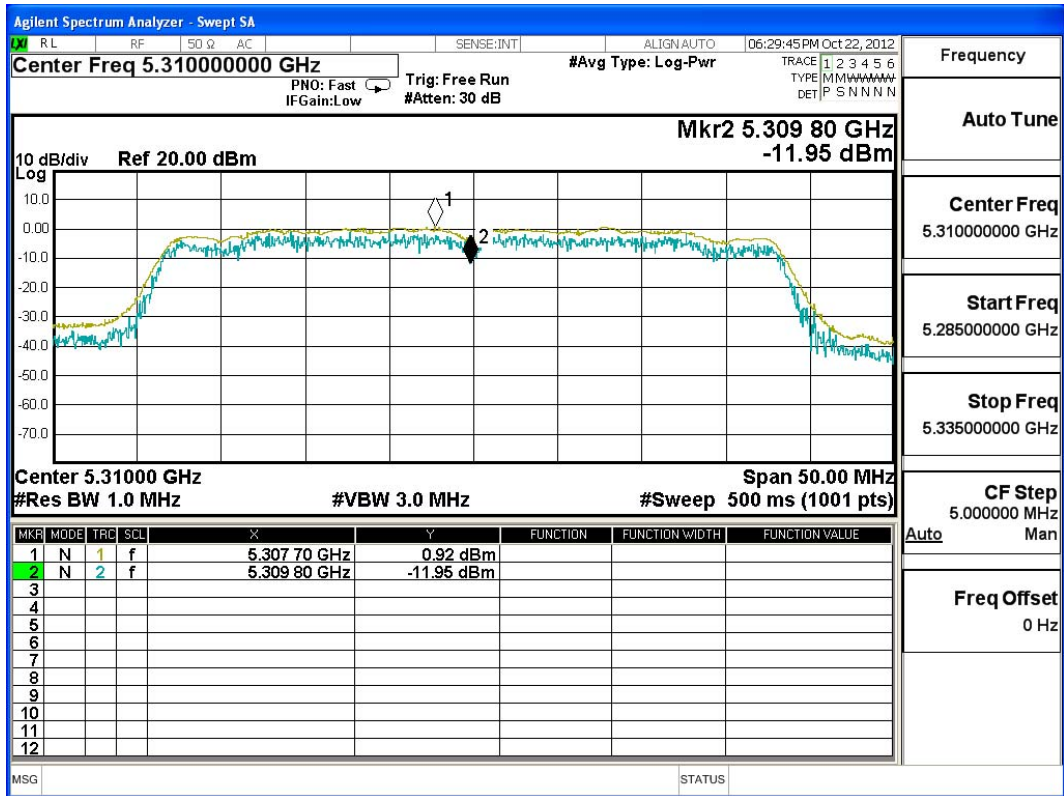
Channel 46:



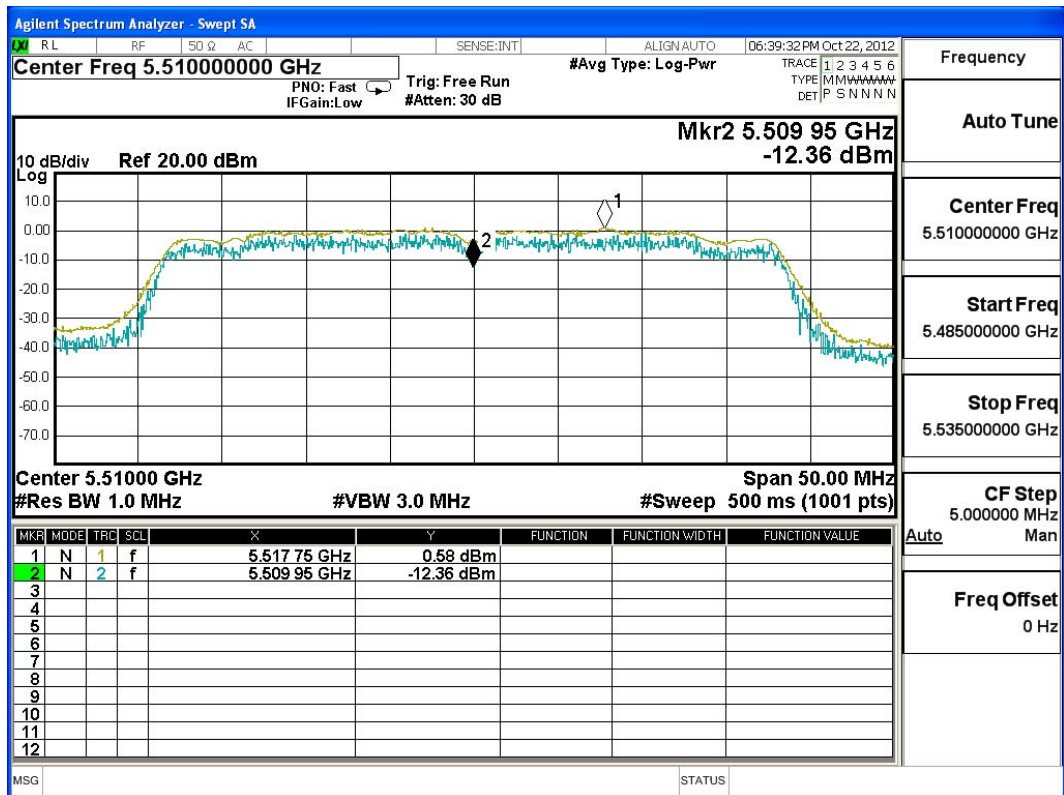
Channel 54:



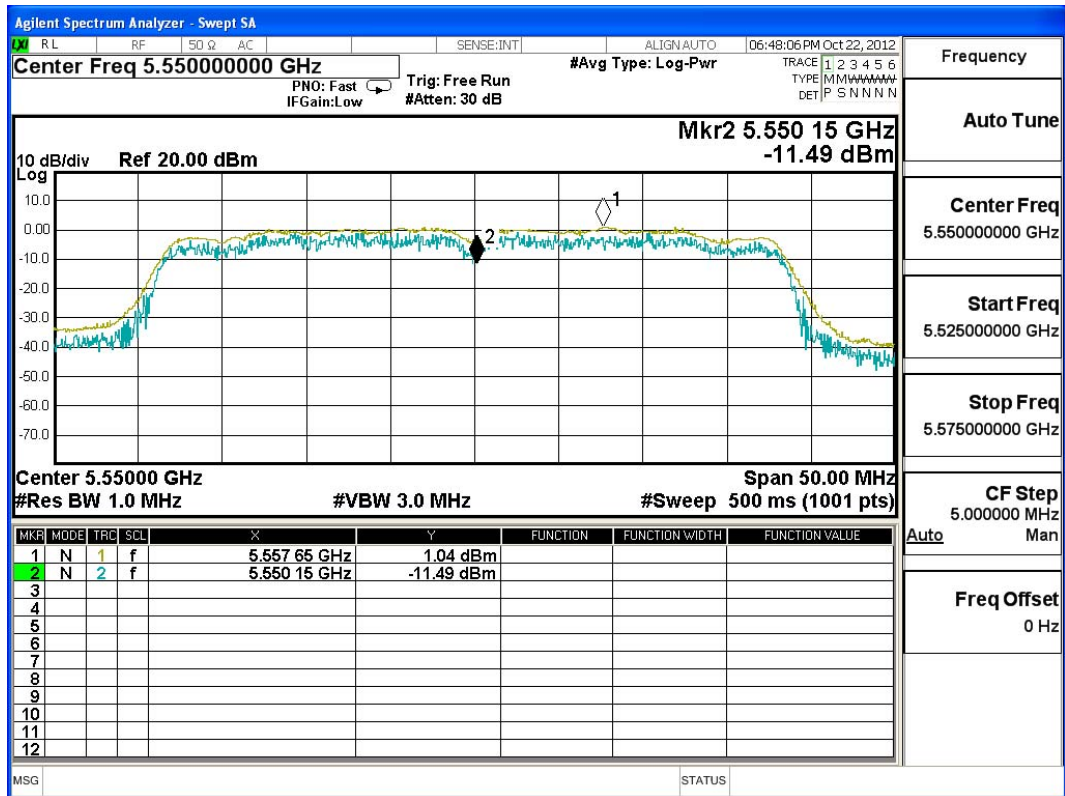
Channel 62:



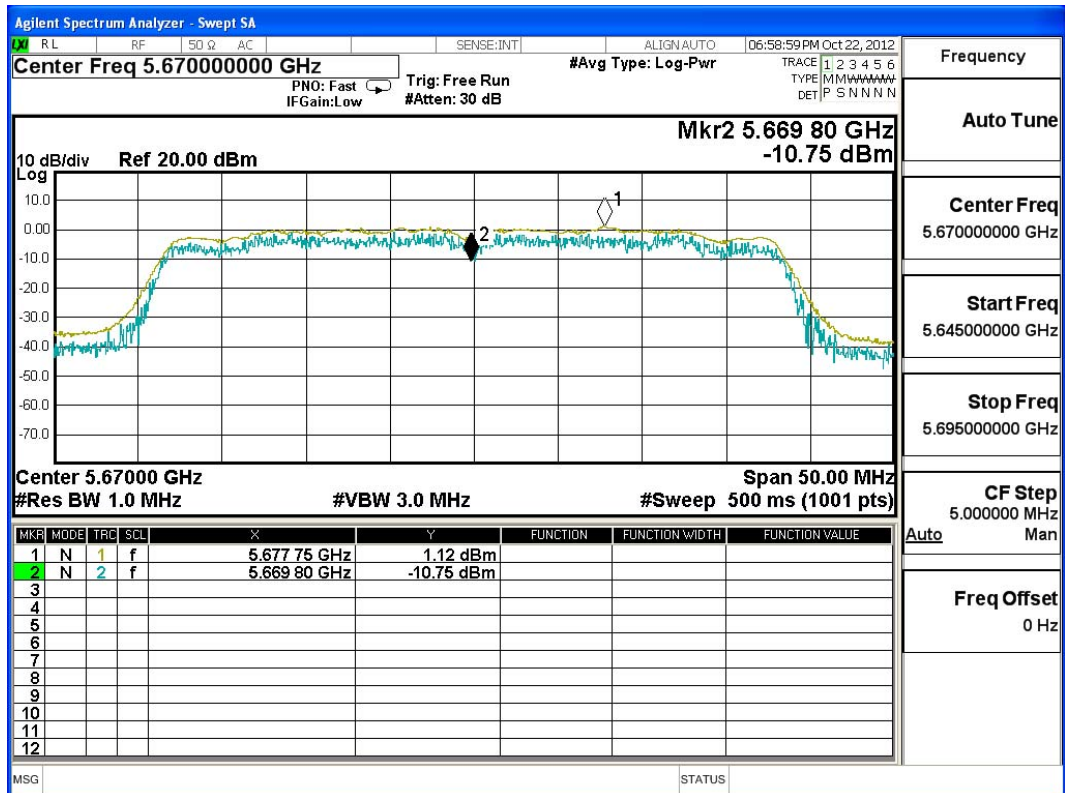
Channel 102:



Channel 118:



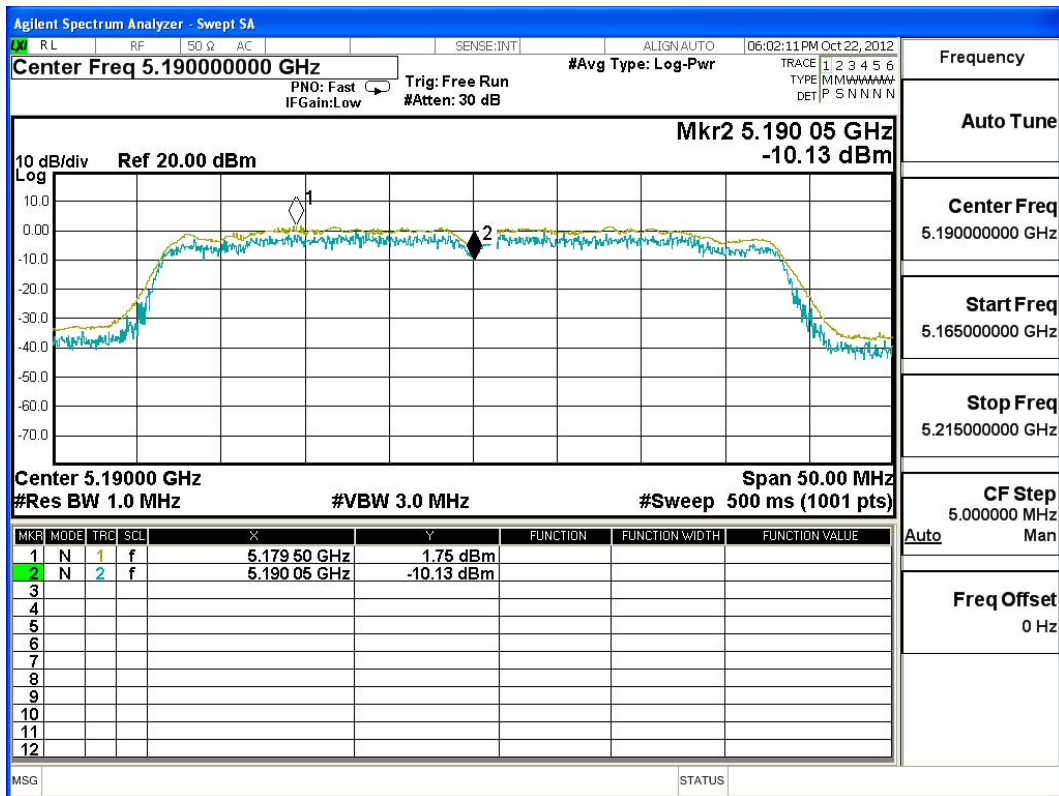
Channel 134:



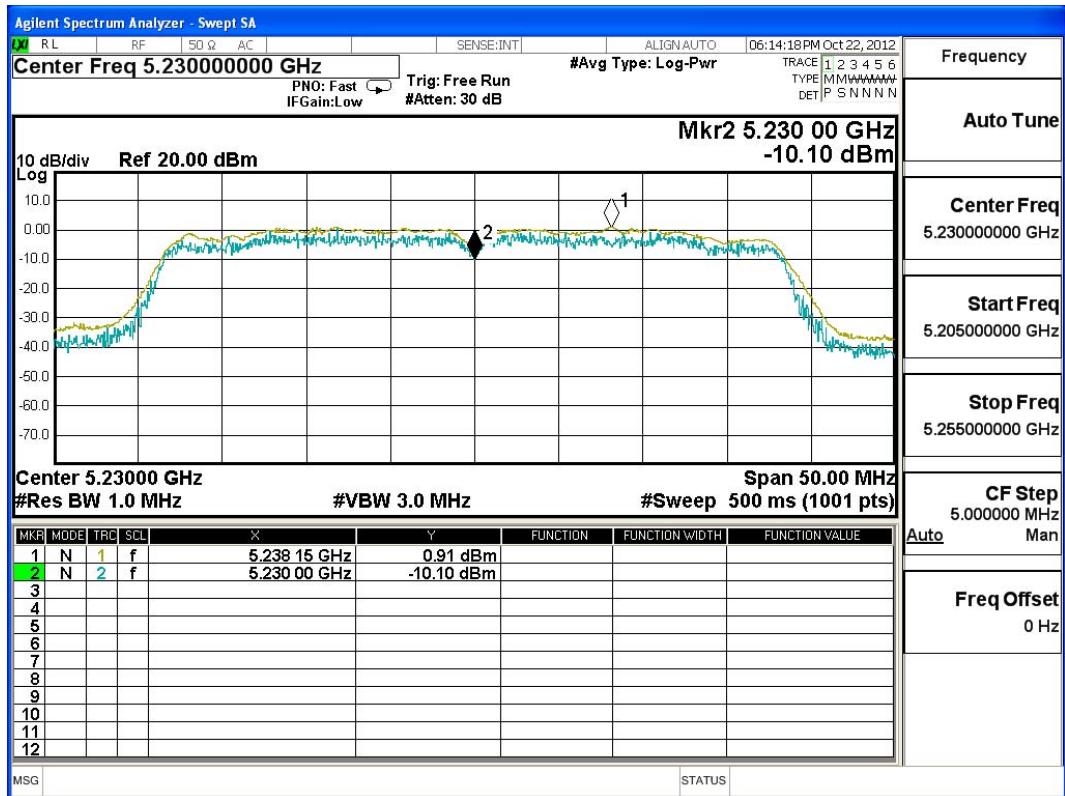
Chain B

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
38	5190	11.880	<13	Pass
46	5230	11.010	<13	Pass
54	5270	11.720	<13	Pass
62	5310	11.110	<13	Pass
102	5510	12.790	<13	Pass
118	5590	11.620	<13	Pass
134	5670	11.290	<13	Pass

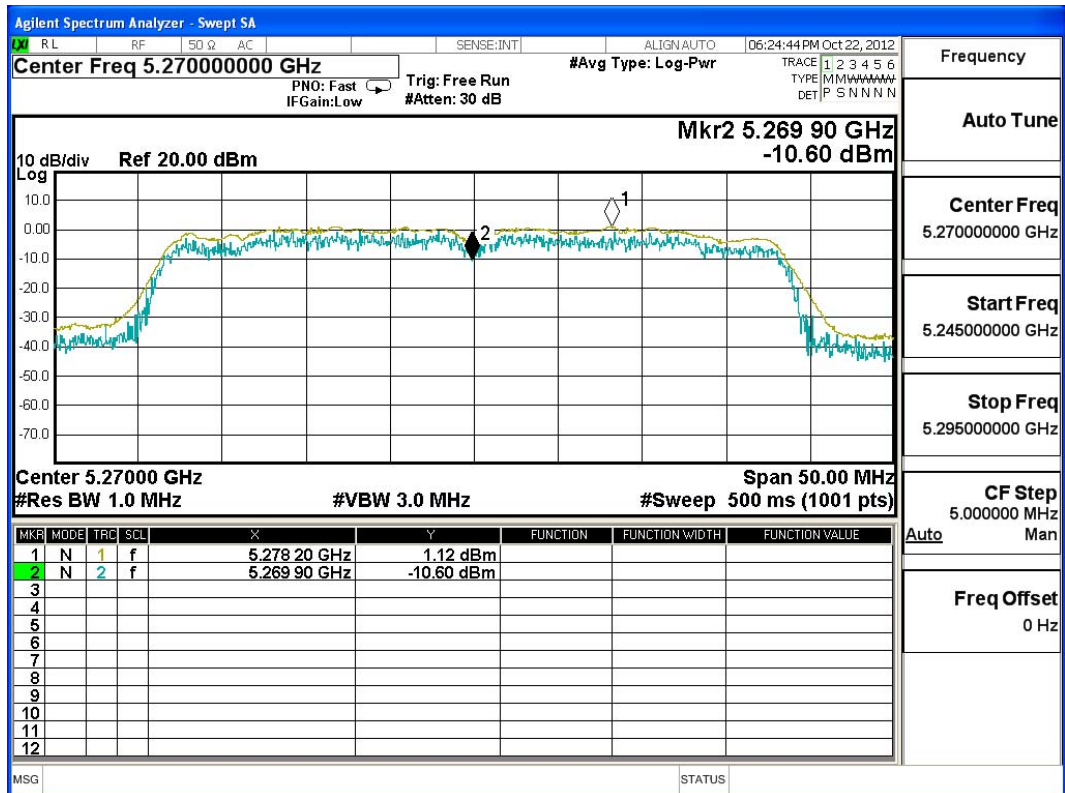
Channel 38:



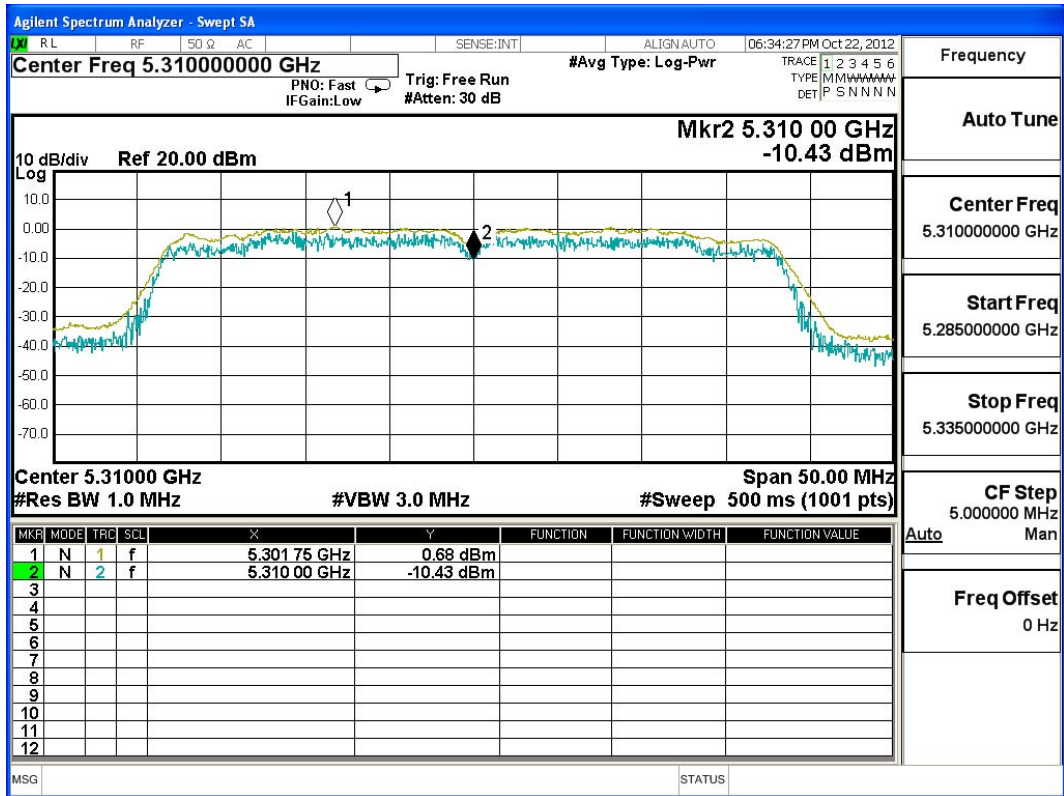
Channel 46:



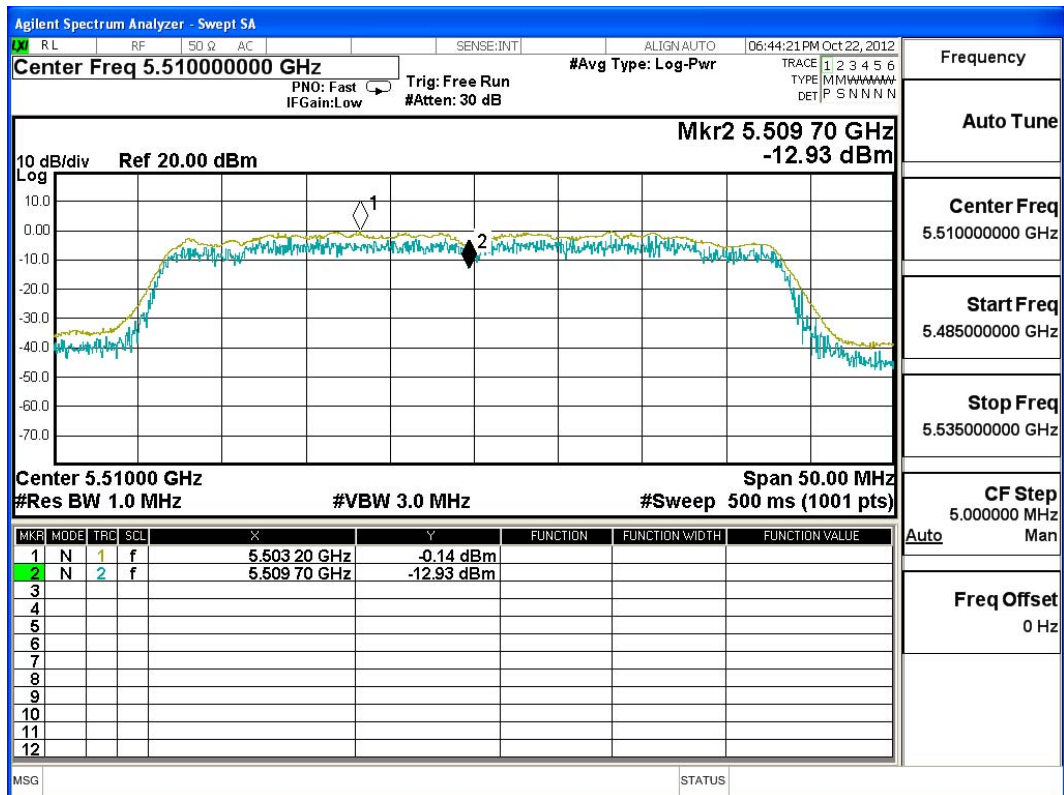
Channel 54:



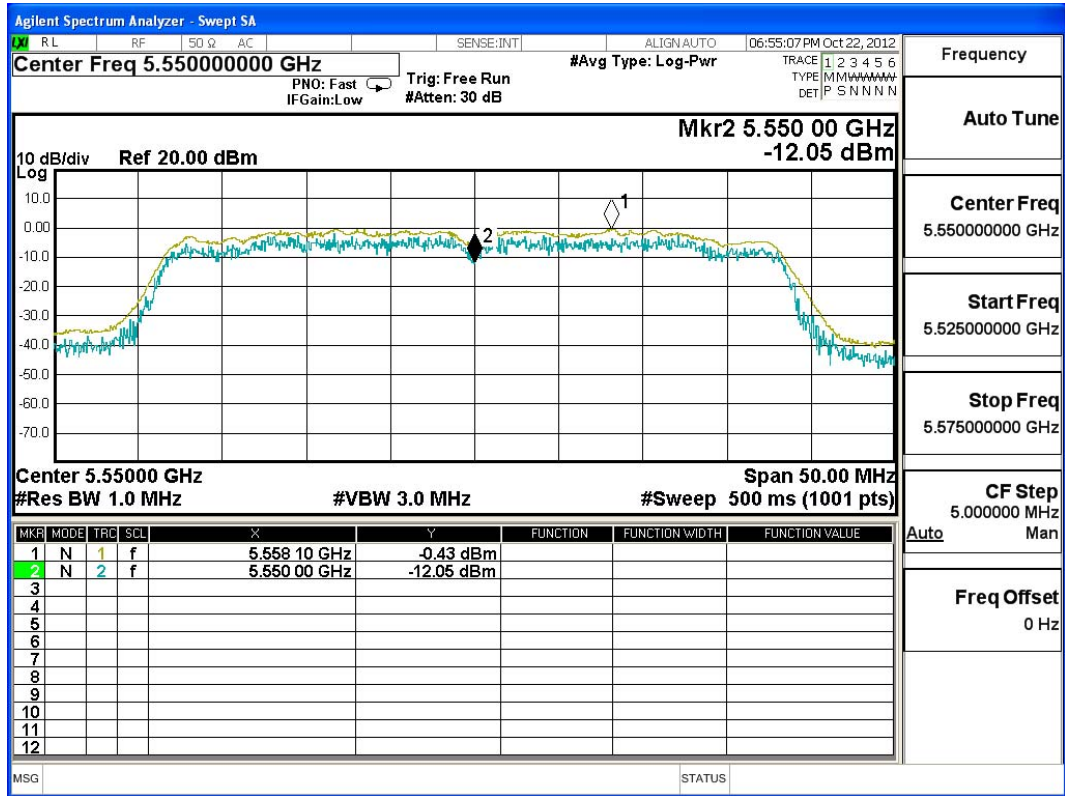
Channel 62:



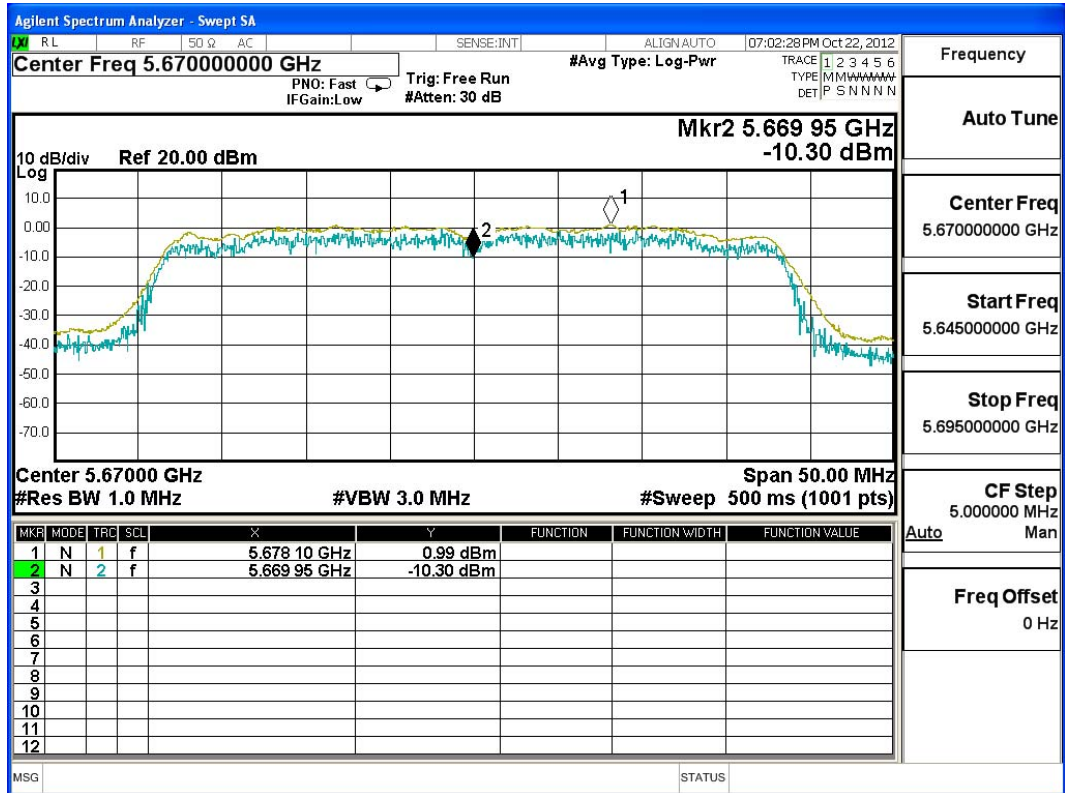
Channel 102:



Channel 110:



Channel 134:



6. Radiated Emission

6.1. Test Equipment

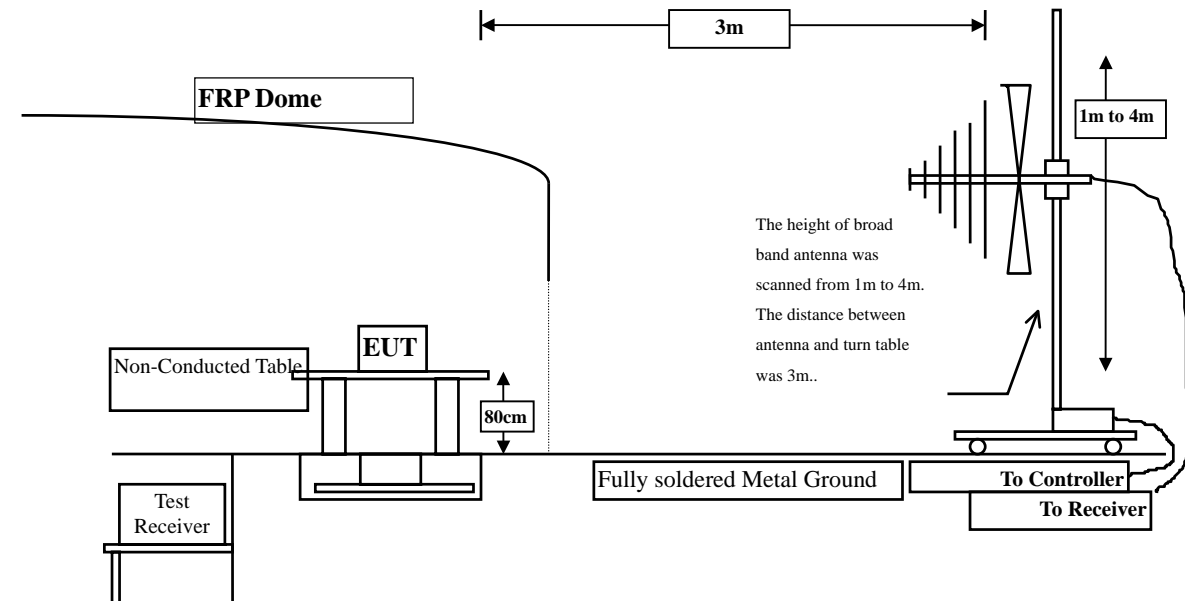
The following test equipments are used during the radiated emission test:

Test Site	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2012
	X Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2012
	X Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2012
	X Pre-Amplifier	QTK	QTK-AMP-03 / 0003	May, 2012
	X Pre-Amplifier	QTK	AP-180C / CHM_0906076	Sep., 2012
	X Pre-Amplifier	MITEQ	AMF-4D-180400-45-6P/ 925975	Mar, 2012
	X Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2012
	X Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2012
	X Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2012
	X Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	X Coaxial Switch	Anritsu	MP59B/6200265729	N/A

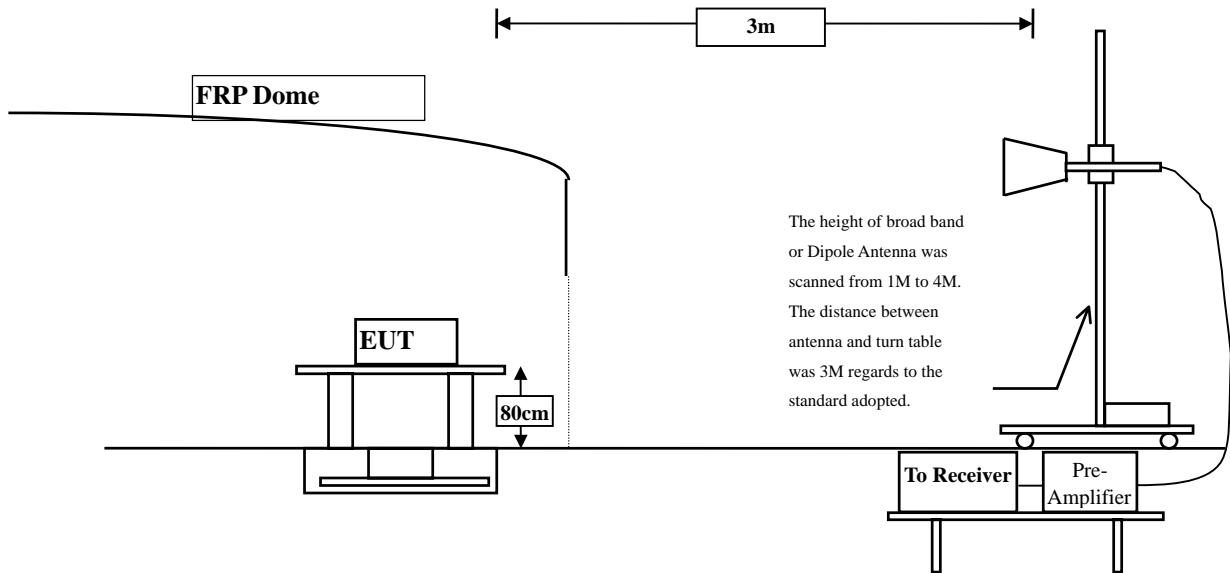
- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	uV/m @ 3m	dBuV/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to FCC KDB-789033 test procedure for compliance to FCC 47CFR 15.407 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 30MHz - 10th Harmonic of fundamental was investigated.

6.5. Uncertainty

± 3.8 dB below 1GHz

± 3.9 dB above 1GHz