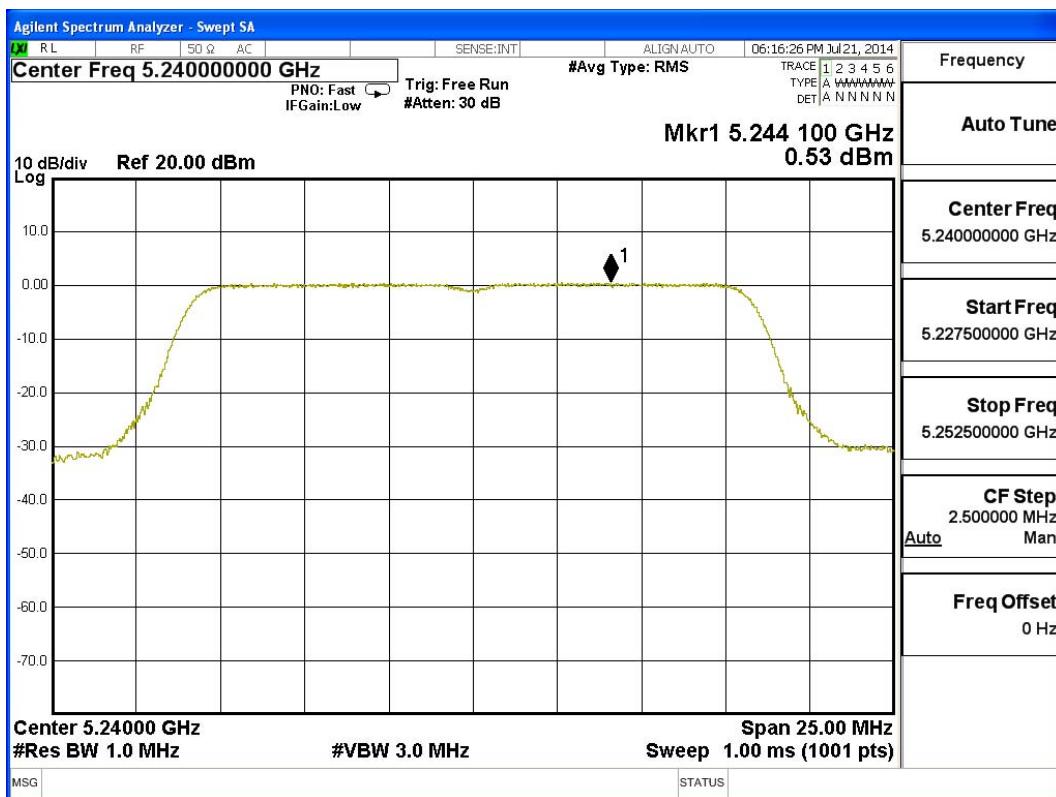
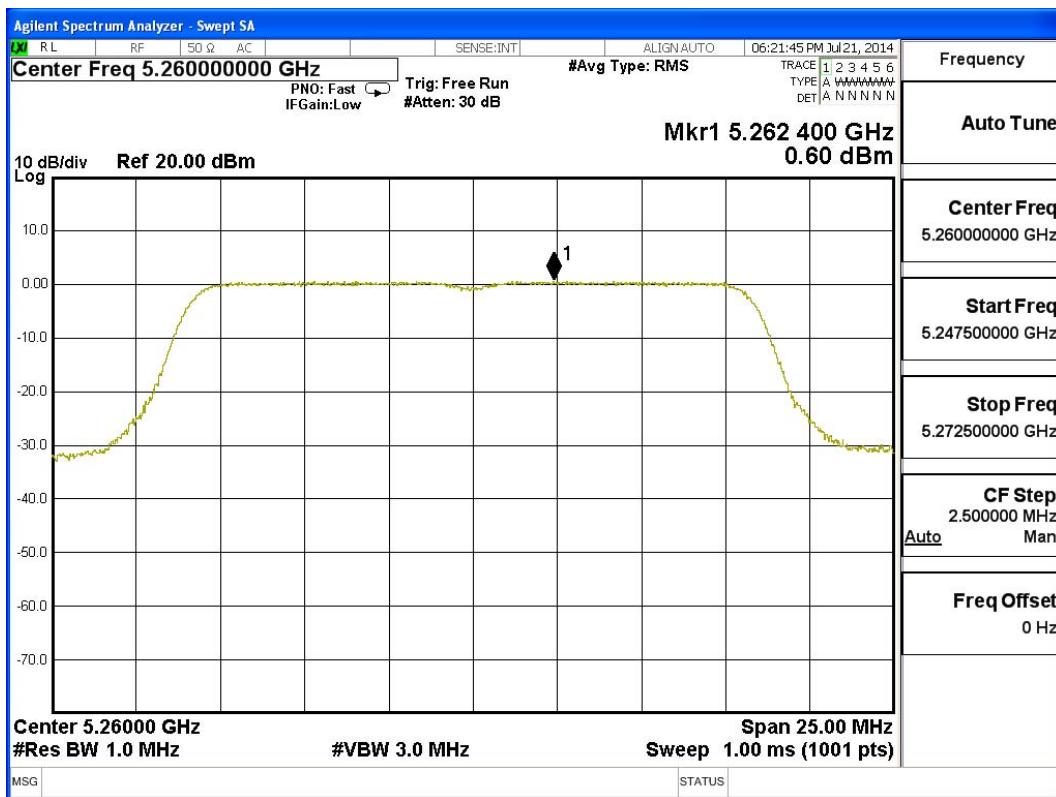


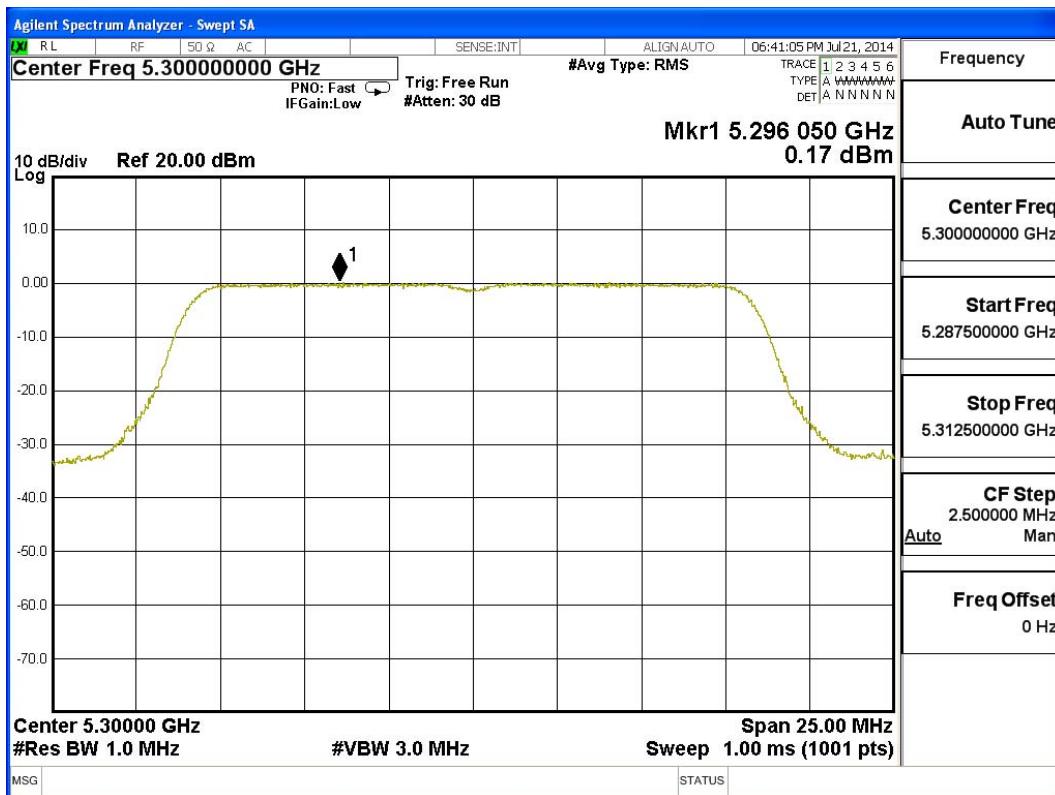
Channel 48:



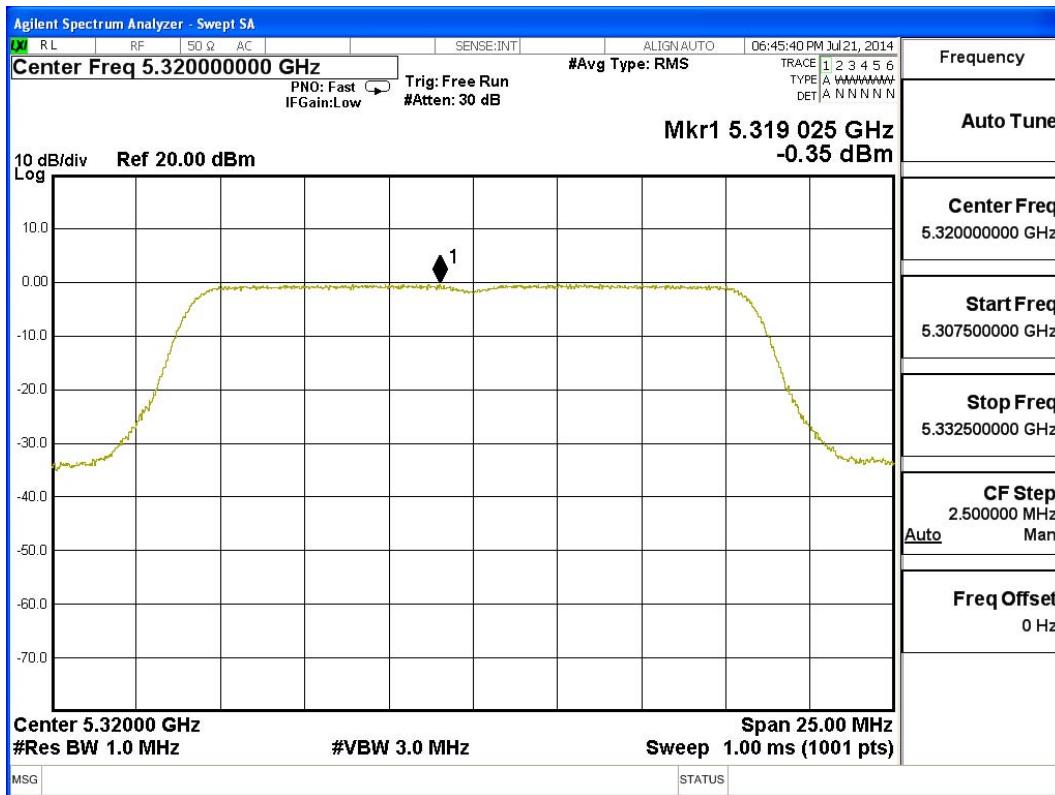
Channel 52:



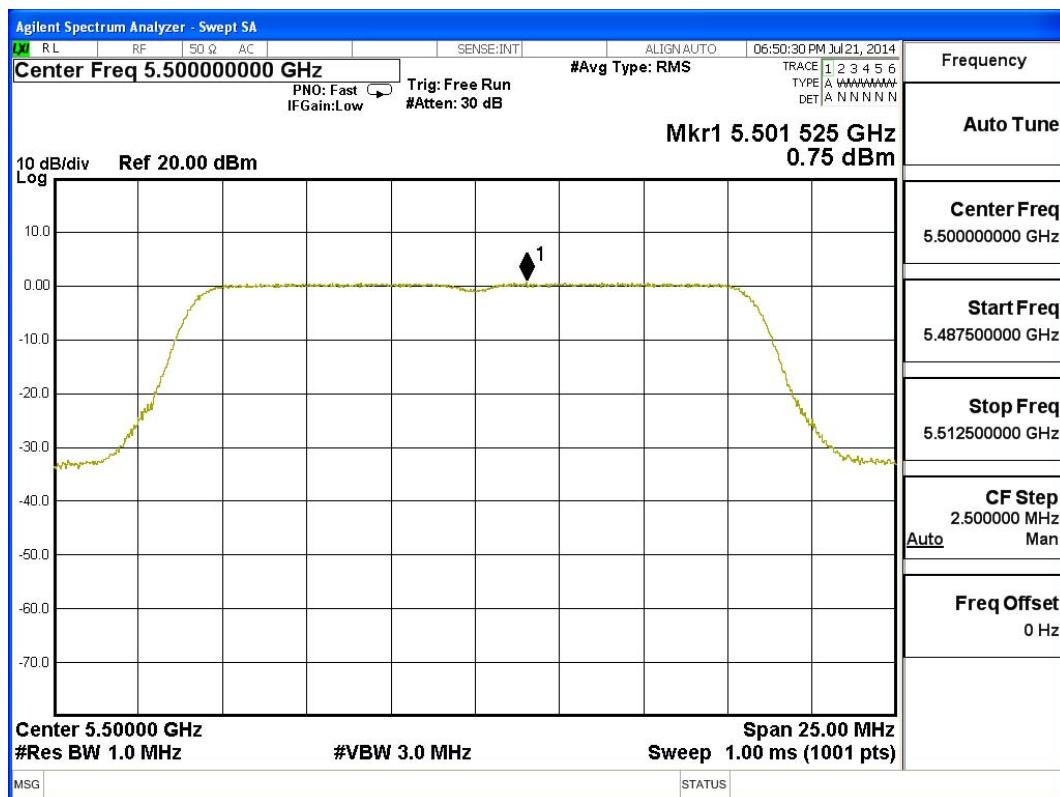
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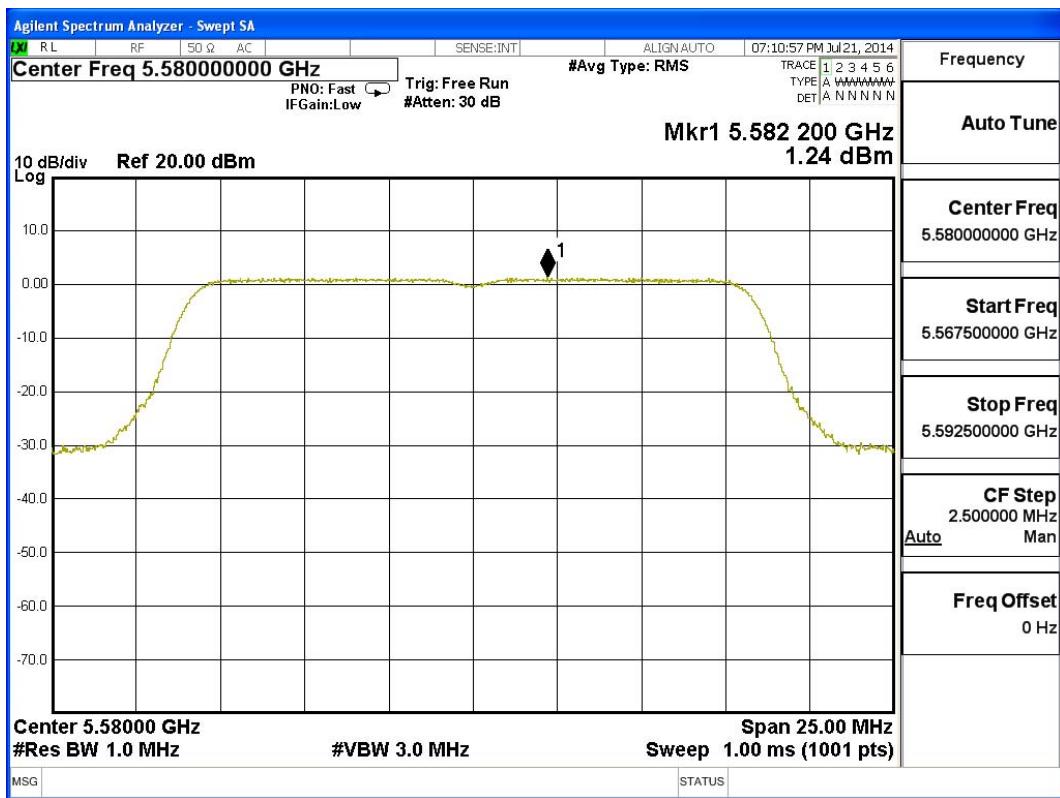
Channel 64:



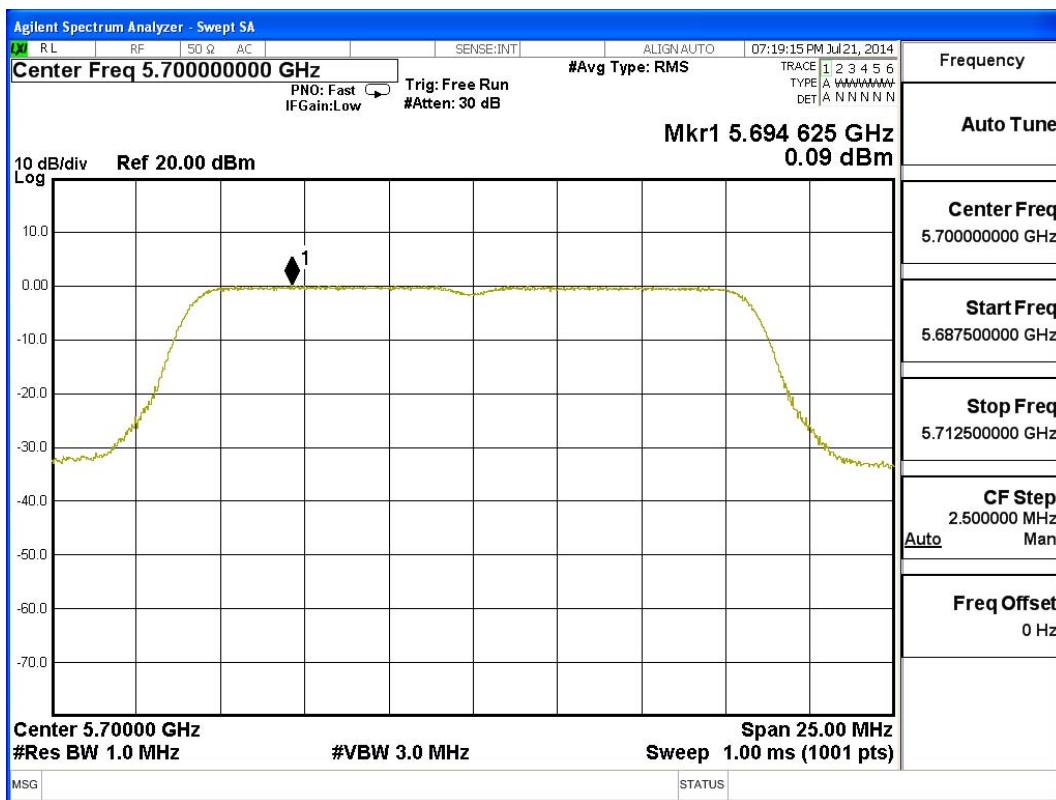
Channel 100:



Channel 116:



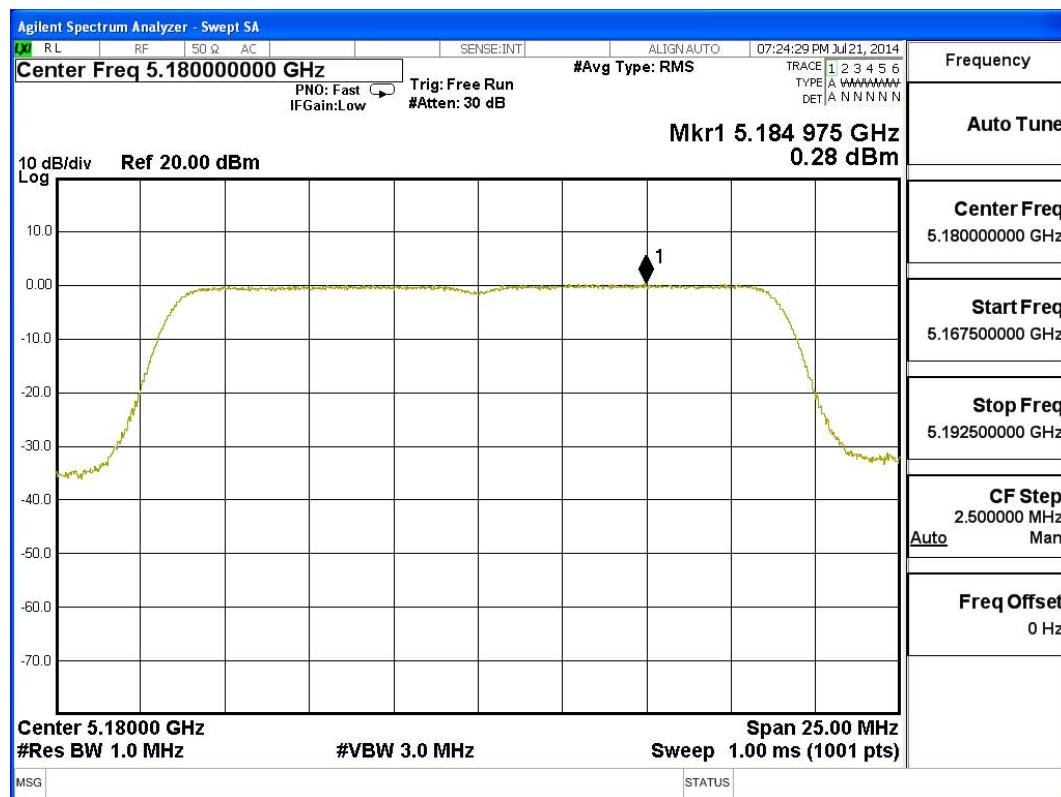
Channel 140:



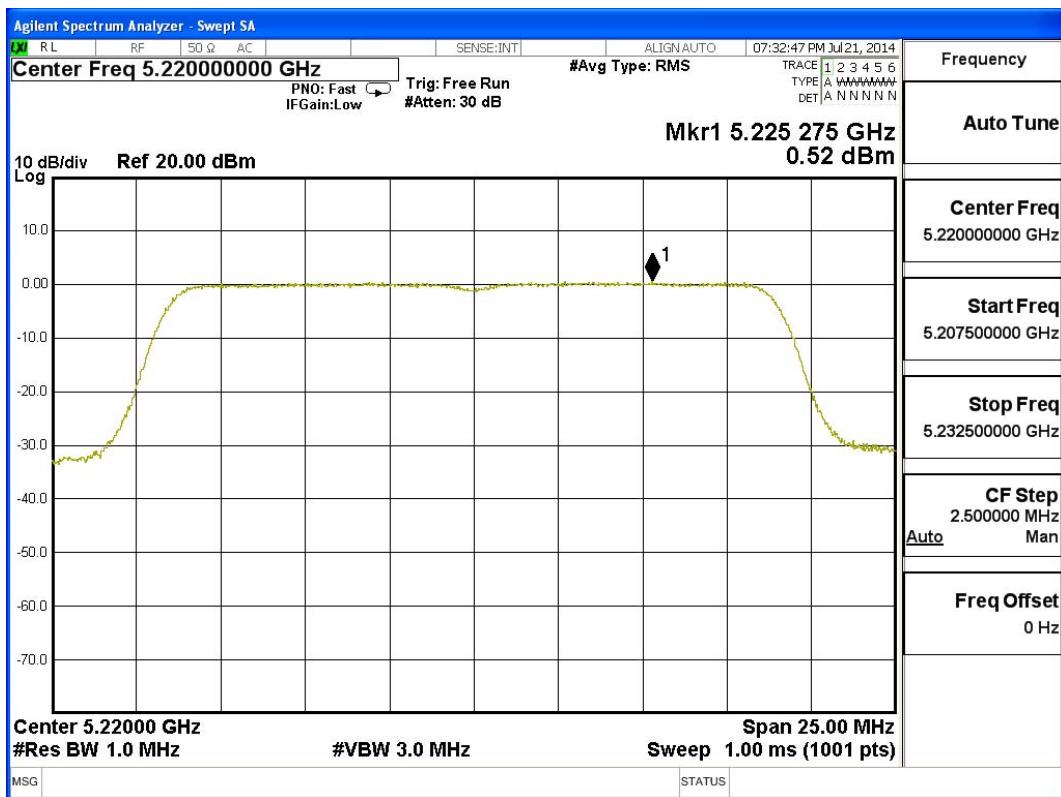
Product : Play-Fi Wireless Speaker
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps)

Channel Number	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
36	5180	0.280	<4	Pass
44	5220	0.520	<4	Pass
48	5240	-0.710	<4	Pass
52	5260	-0.610	<11	Pass
60	5300	-0.990	<11	Pass
64	5320	-1.490	<11	Pass
100	5500	-0.700	<11	Pass
116	5580	-0.040	<11	Pass
140	5700	-1.130	<11	Pass

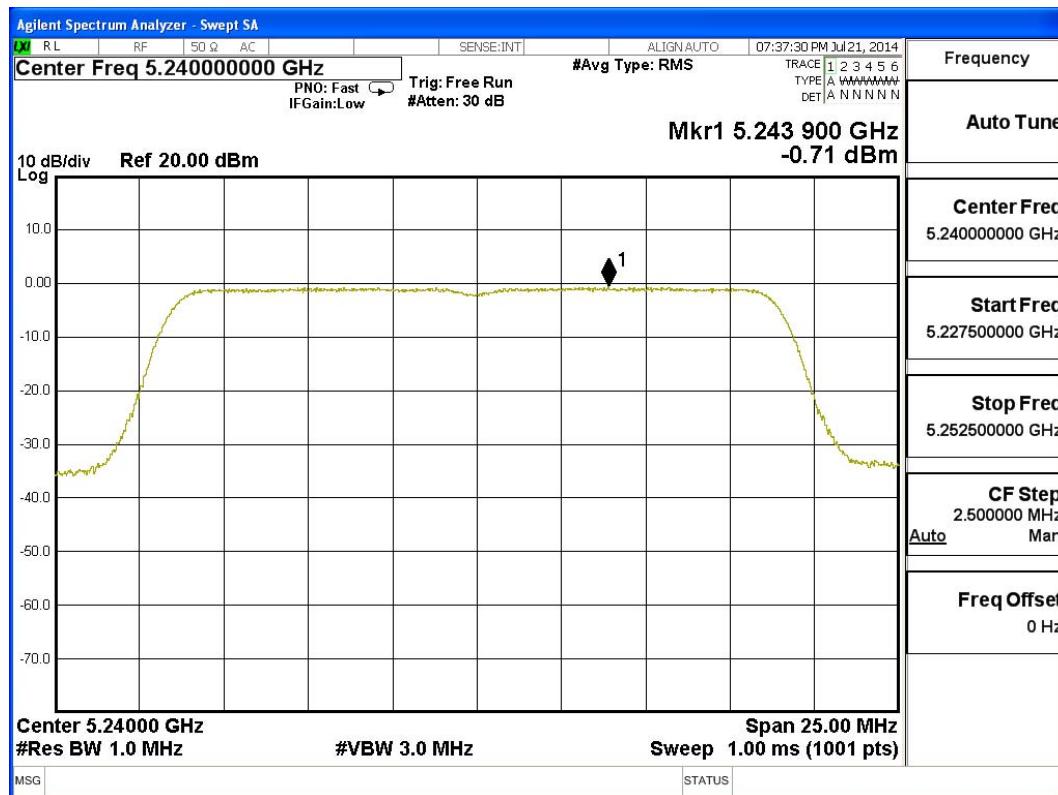
Channel 36



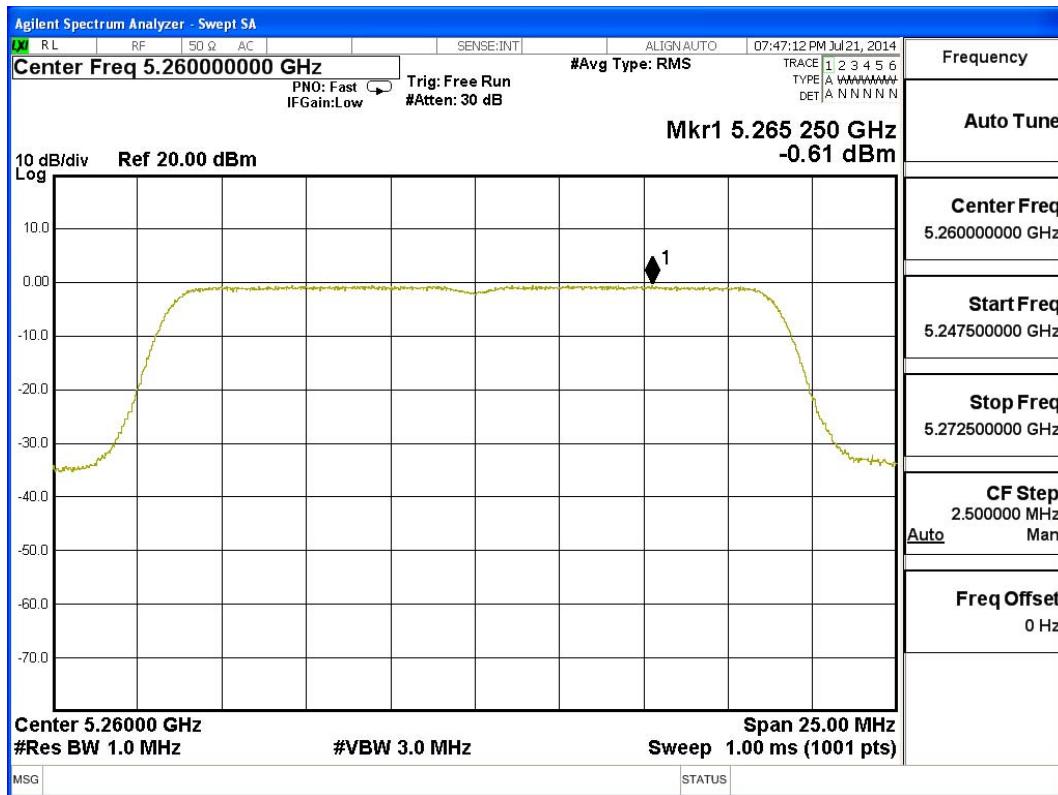
Channel 44



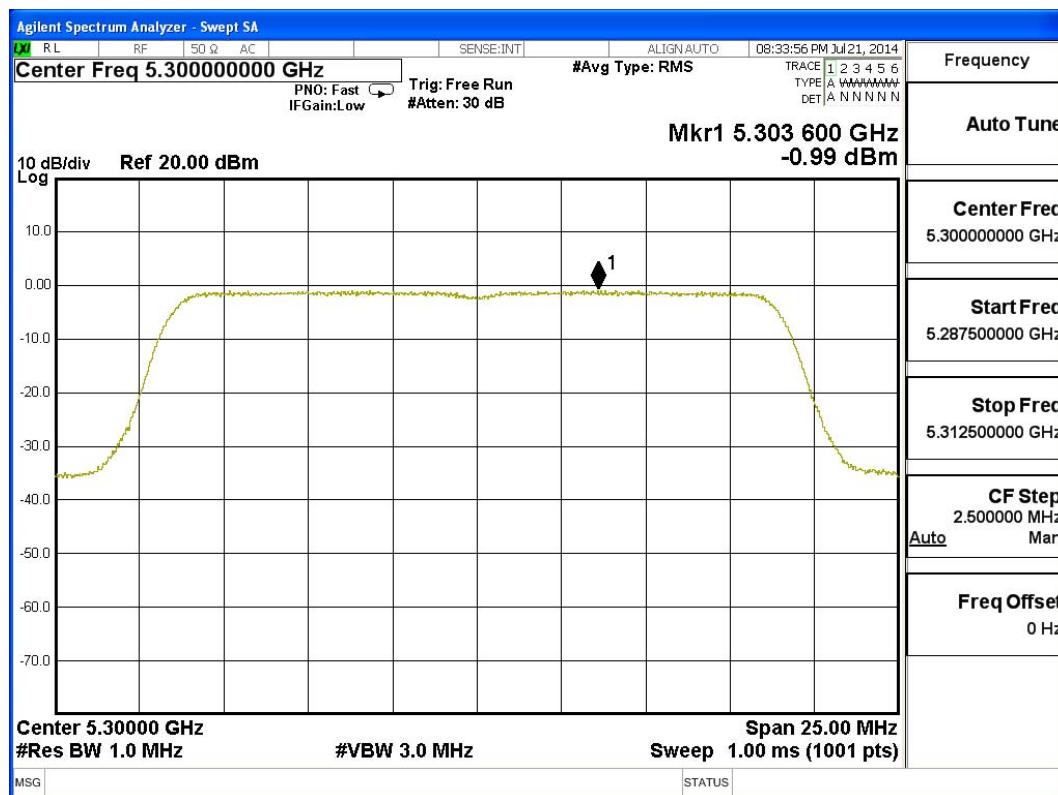
Channel 48



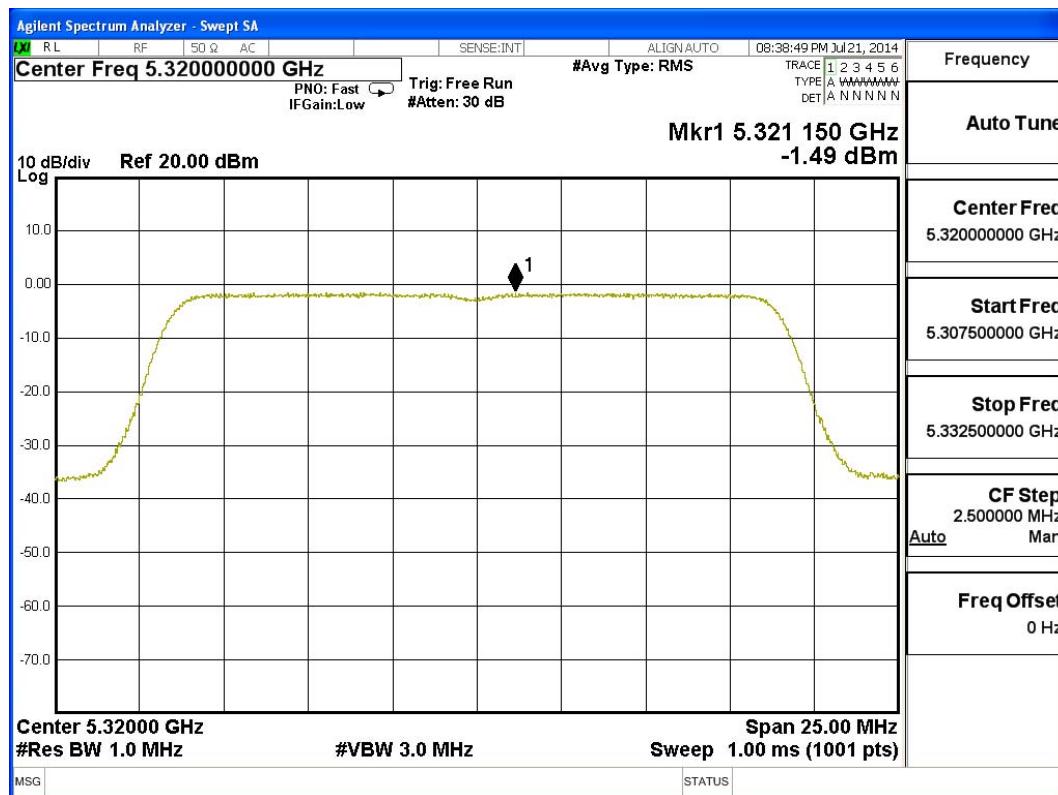
Channel 52



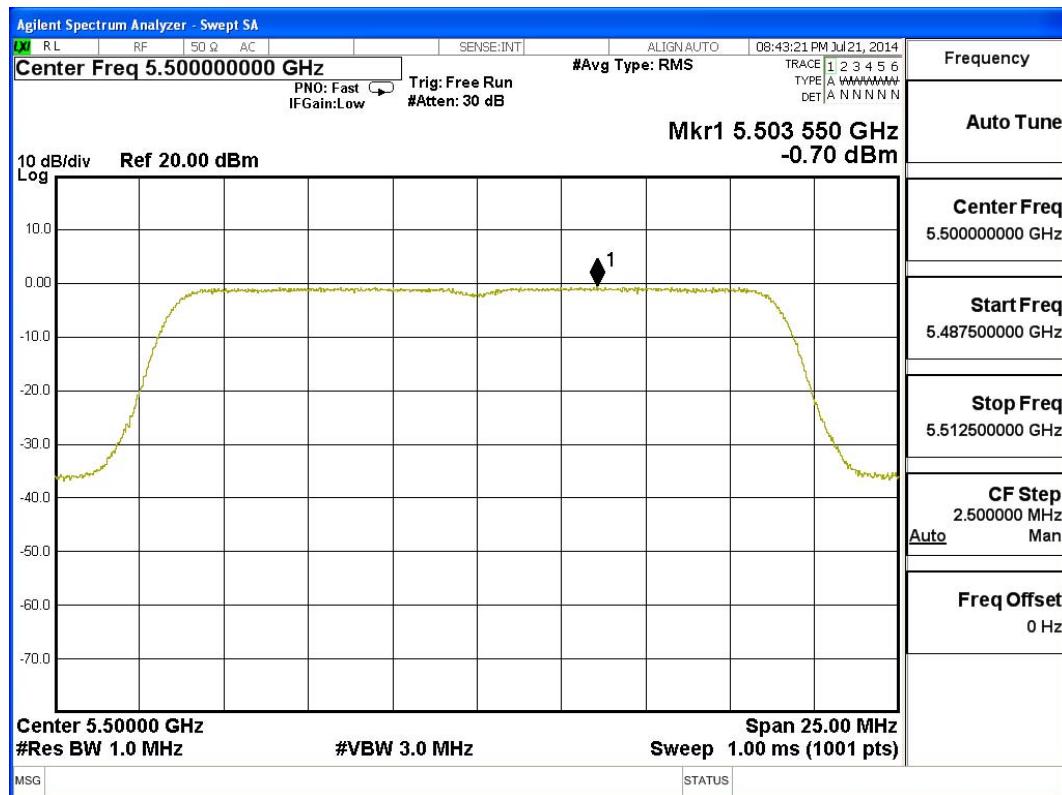
Channel 60



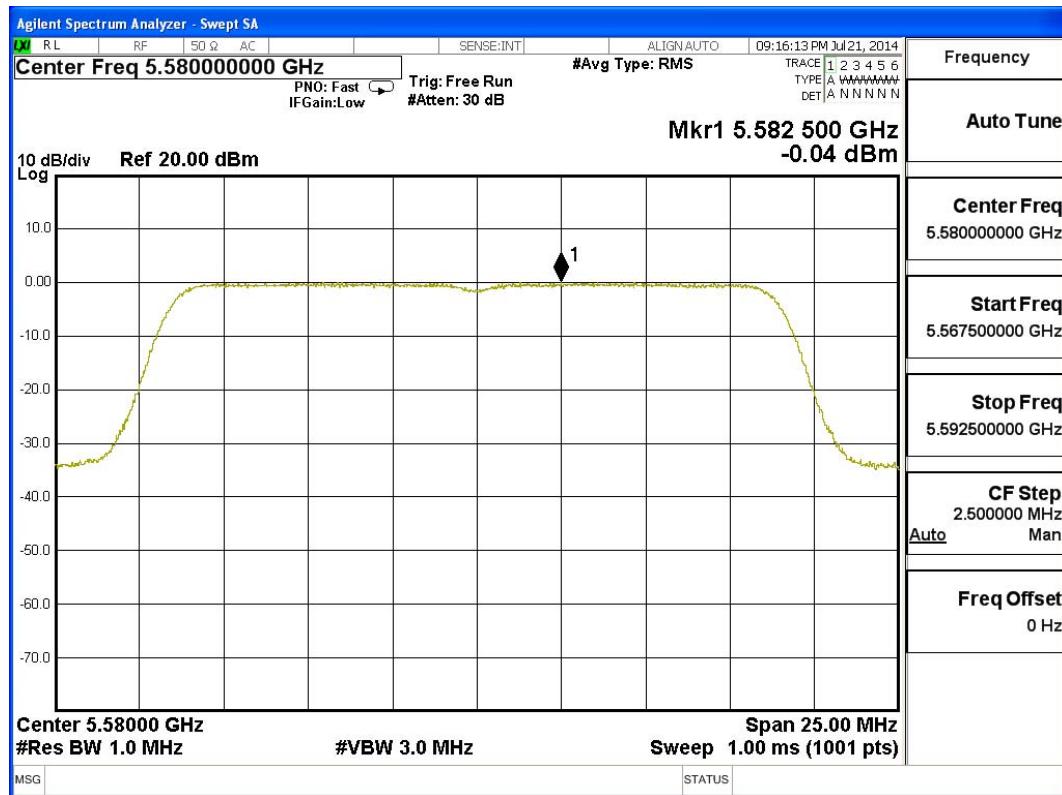
Channel 64



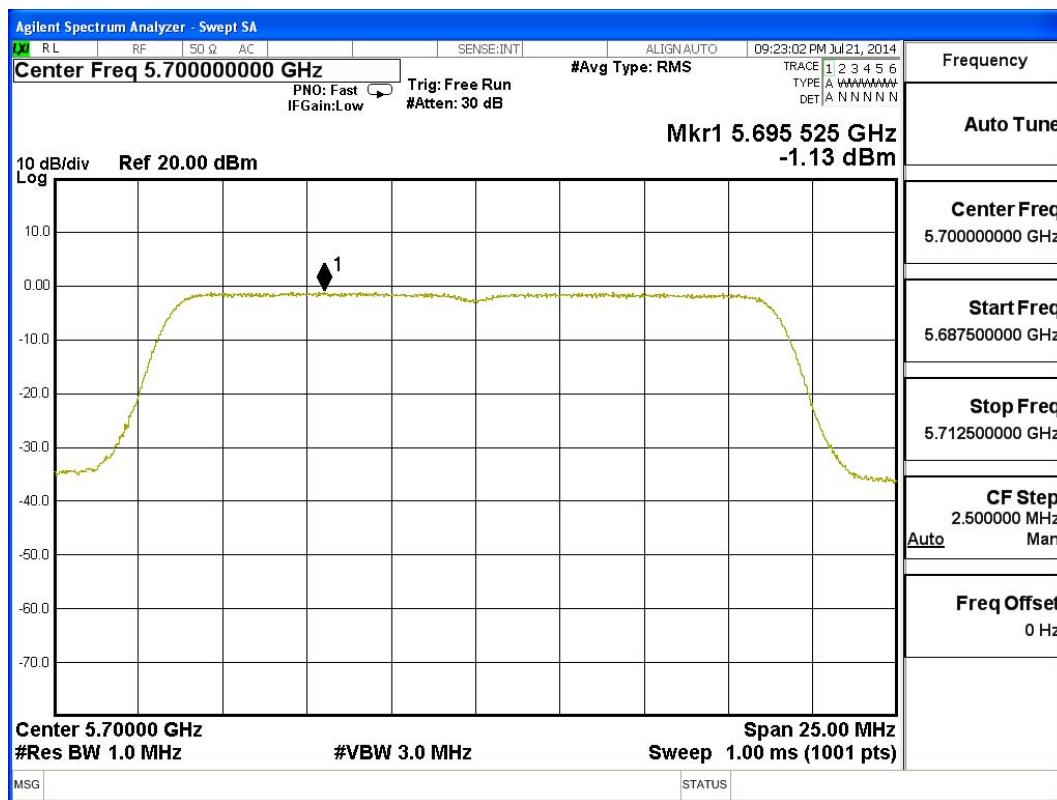
Channel 100



Channel 116



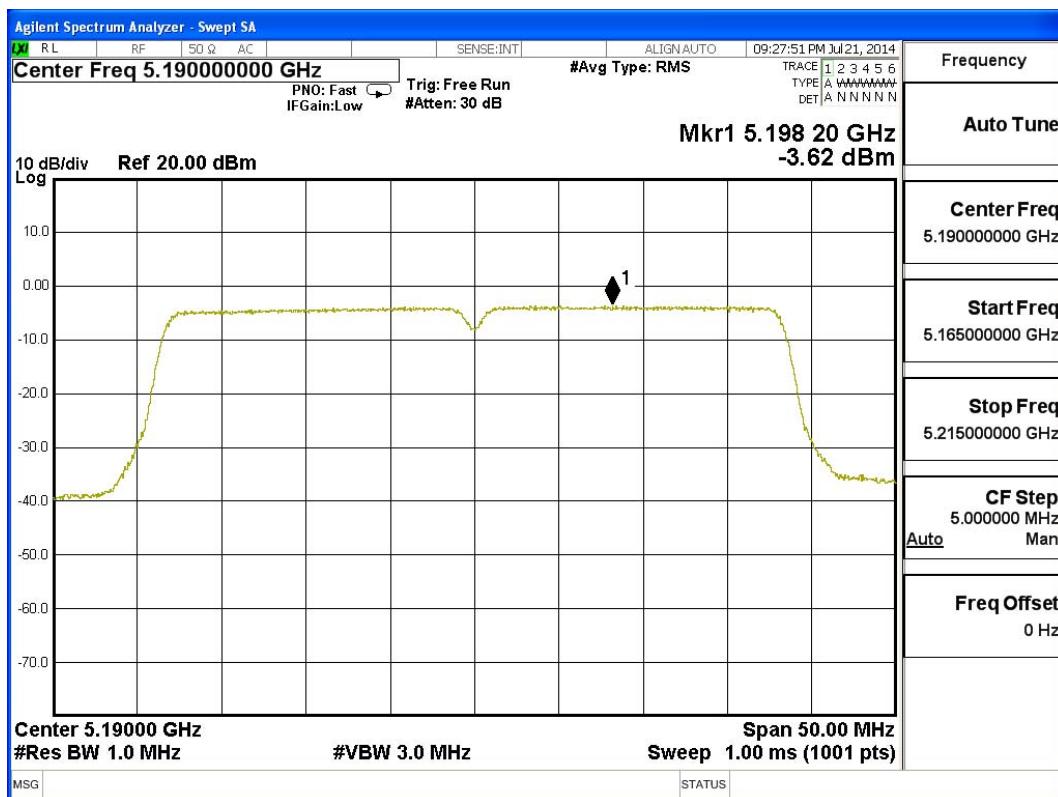
Channel 140



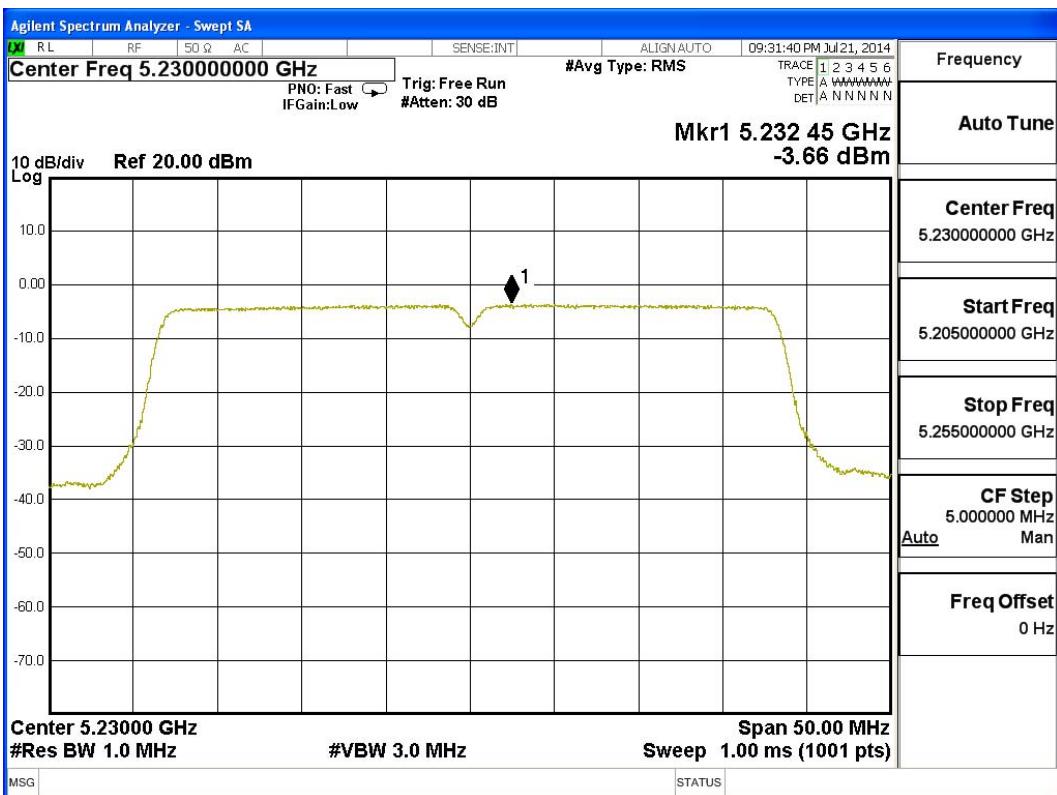
Product : Play-Fi Wireless Speaker
Test Item : Peak Power Spectral Density
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps)

Channel Number	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
38	5190	-3.620	<4	Pass
46	5230	-3.660	<4	Pass
54	5270	-3.850	<11	Pass
62	5310	-4.460	<11	Pass
102	5510	-4.110	<11	Pass
110	5550	-3.740	<11	Pass
134	5670	-3.560	<11	Pass

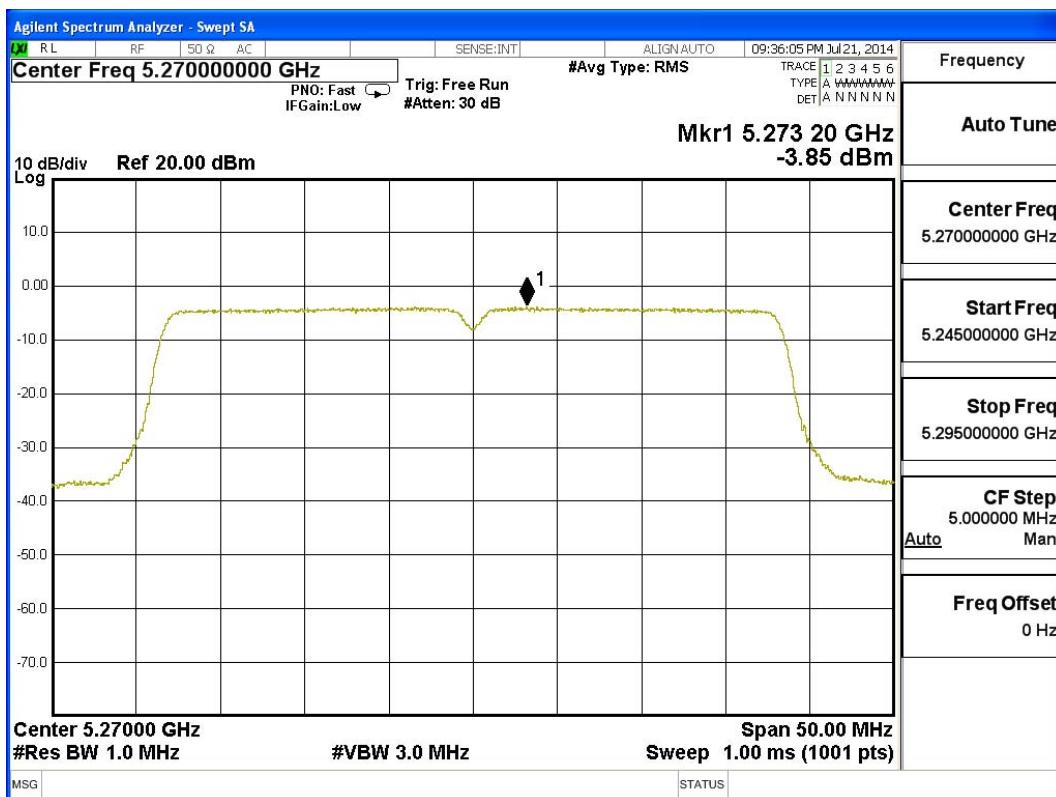
Channel 38



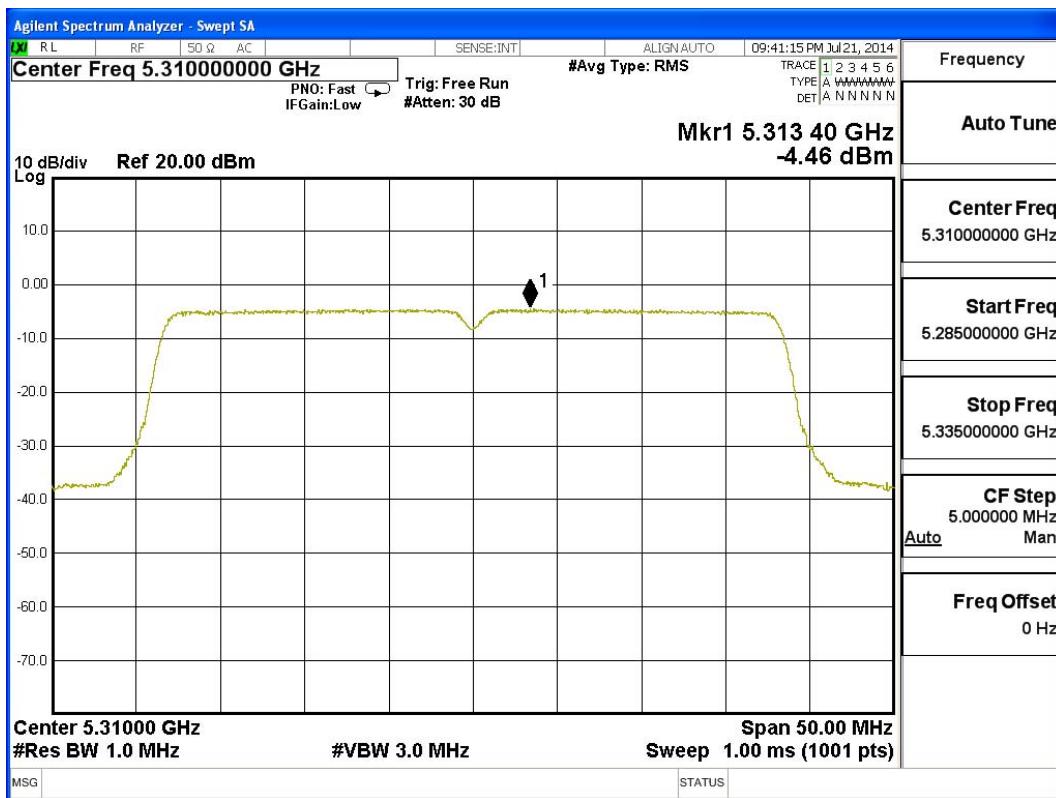
Channel 46



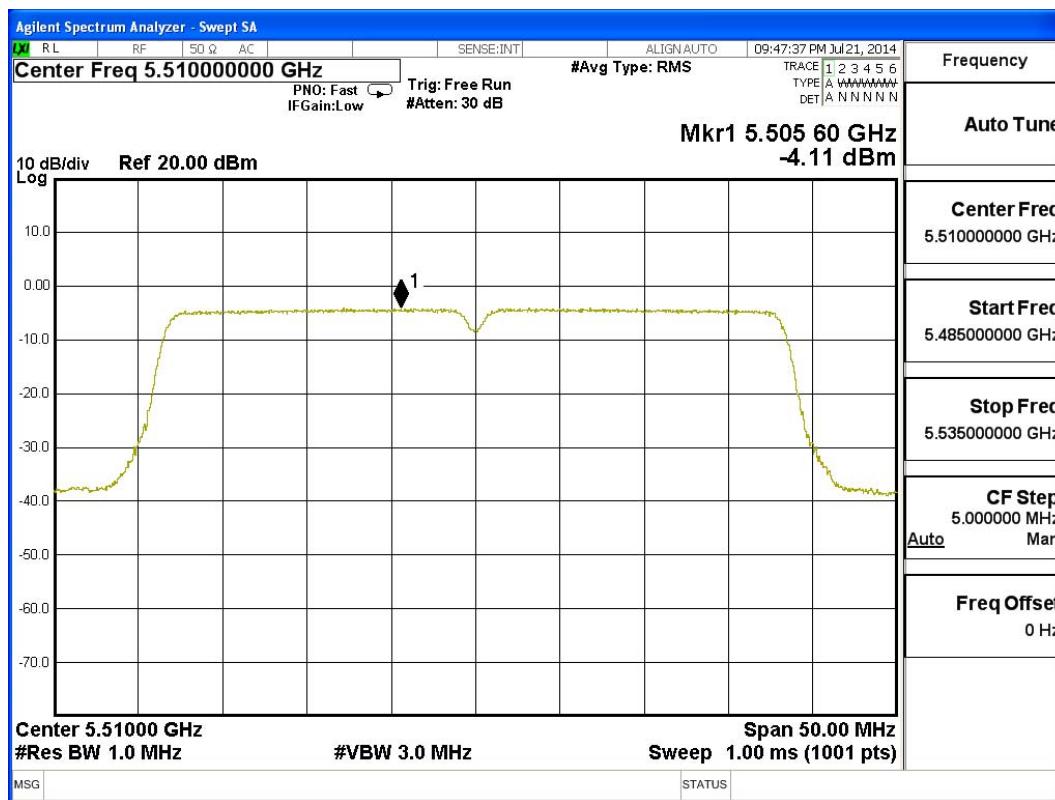
Channel 54



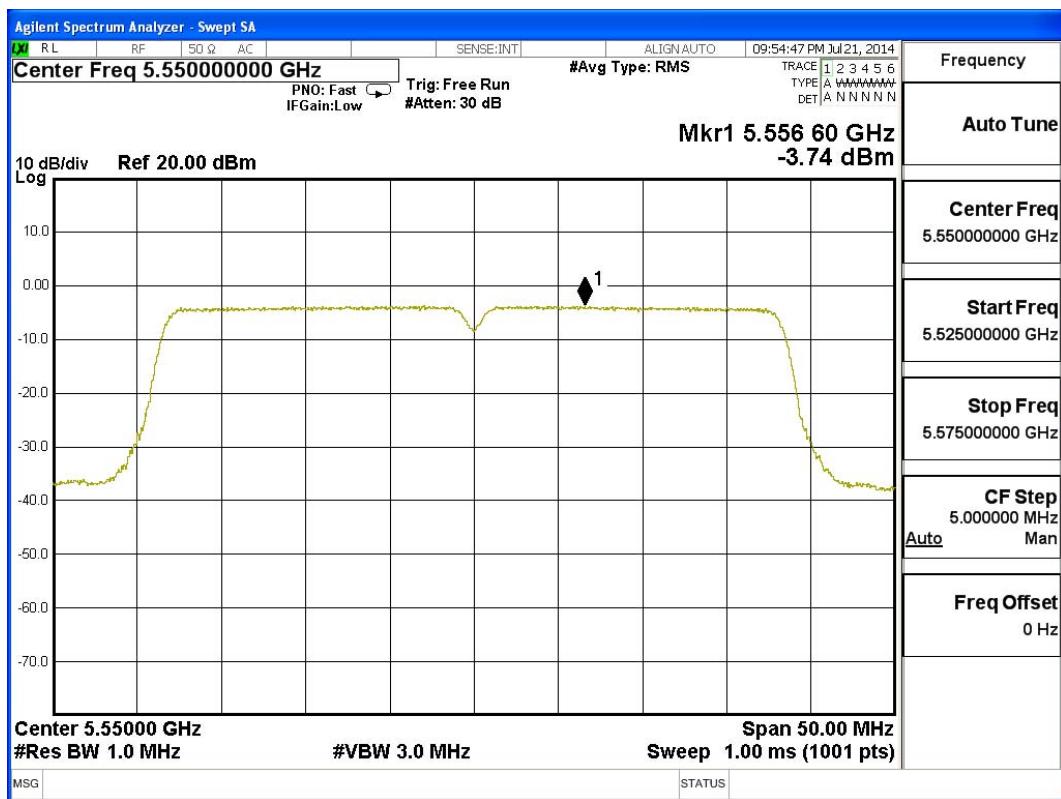
Channel 62



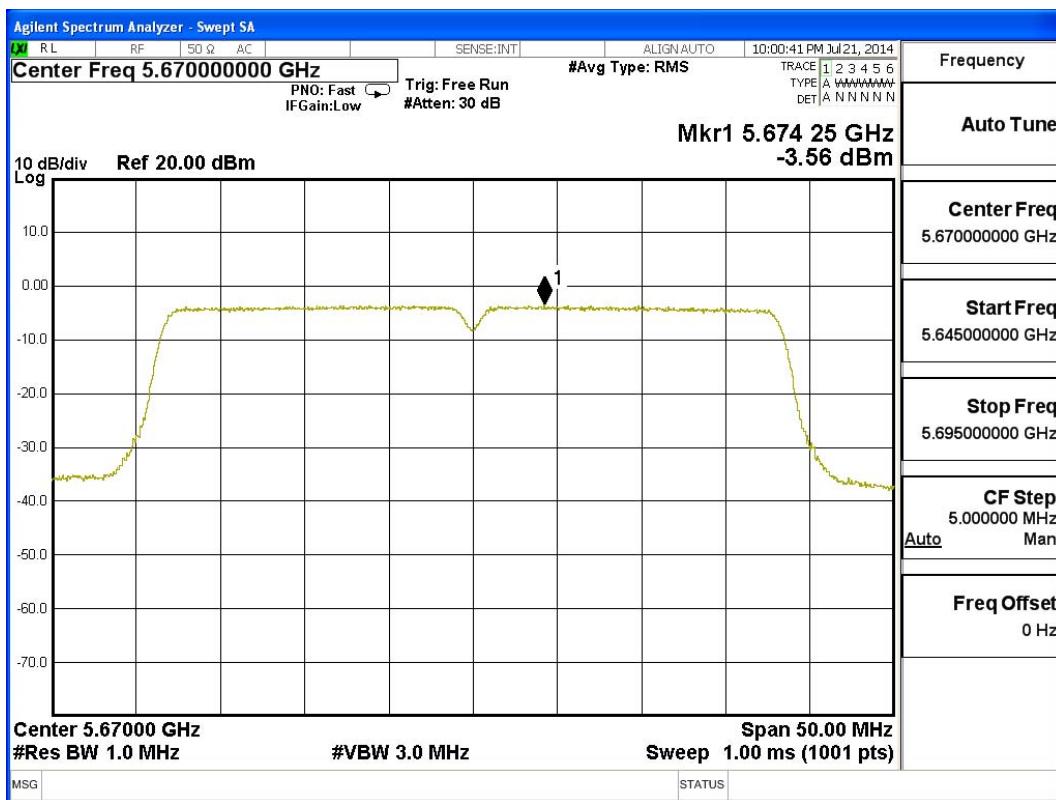
Channel 102



Channel 110



Channel 134



5. Peak Excursion

5.1. Test Equipment

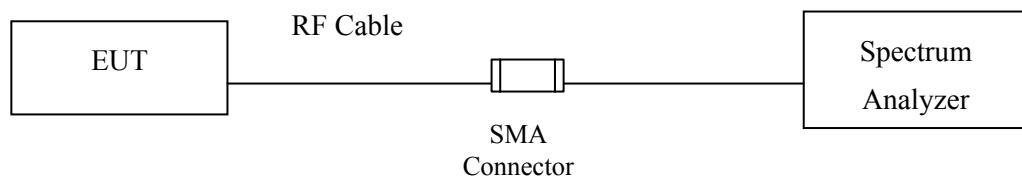
Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2014

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.

5.2. Test Setup

Conduction Power Measurement



5.3. Limits

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

5.4. Test Procedure

The EUT was setup to ANSI C63.10, 2009; tested to DTS test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

Step 1: Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

Step 2: Find the maximum of the peak-max-hold spectrum.

(Set RBW = 1 MHz, VBW \geq 3 MHz, Detector = peak, Trace mode = max-hold,

Allow the sweeps to continue until the trace stabilizes, Use the peak search function to find the peak of the spectrum.)

Step 3: Use the procedure found under KDB-789033 F) to measure the PPSD.

Step 4: Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

5.5. Uncertainty

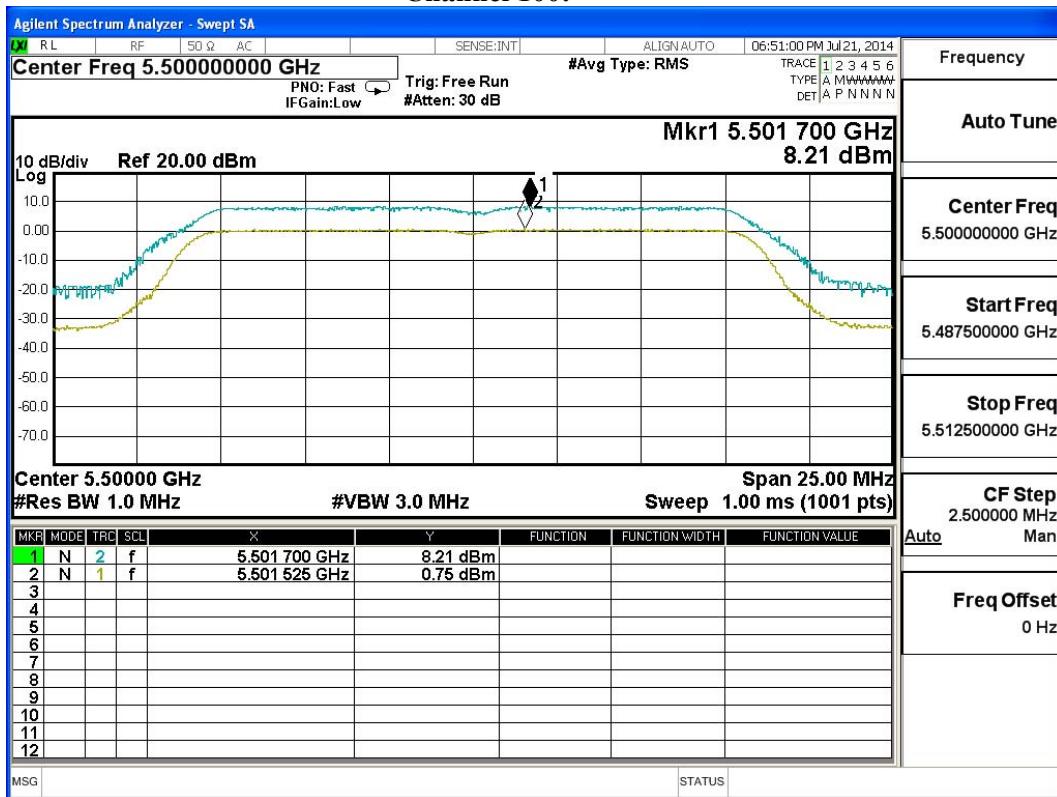
\pm 1.27 dB

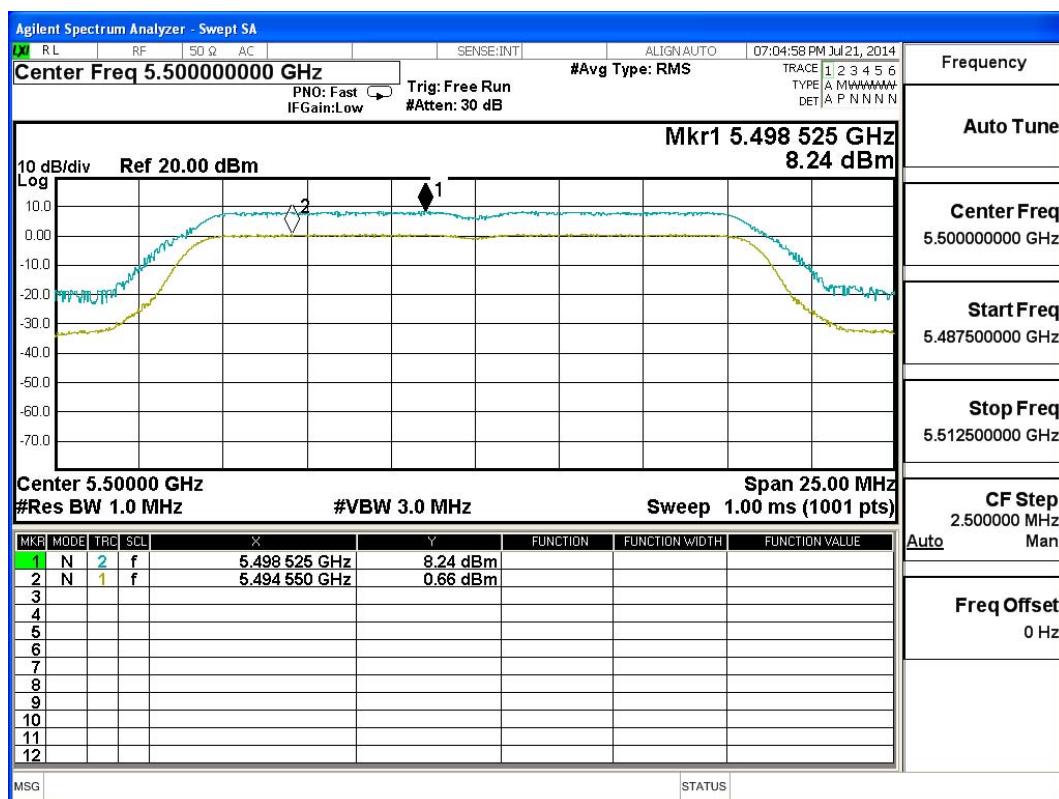
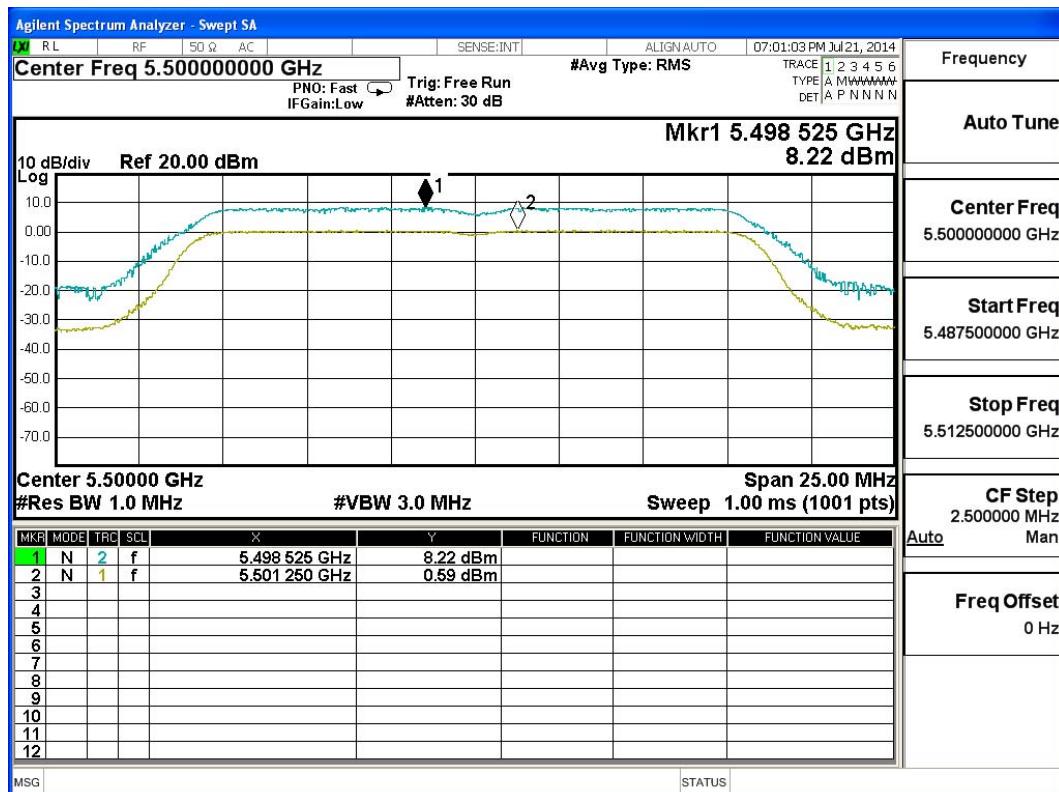
Test Result of Peak Excursion

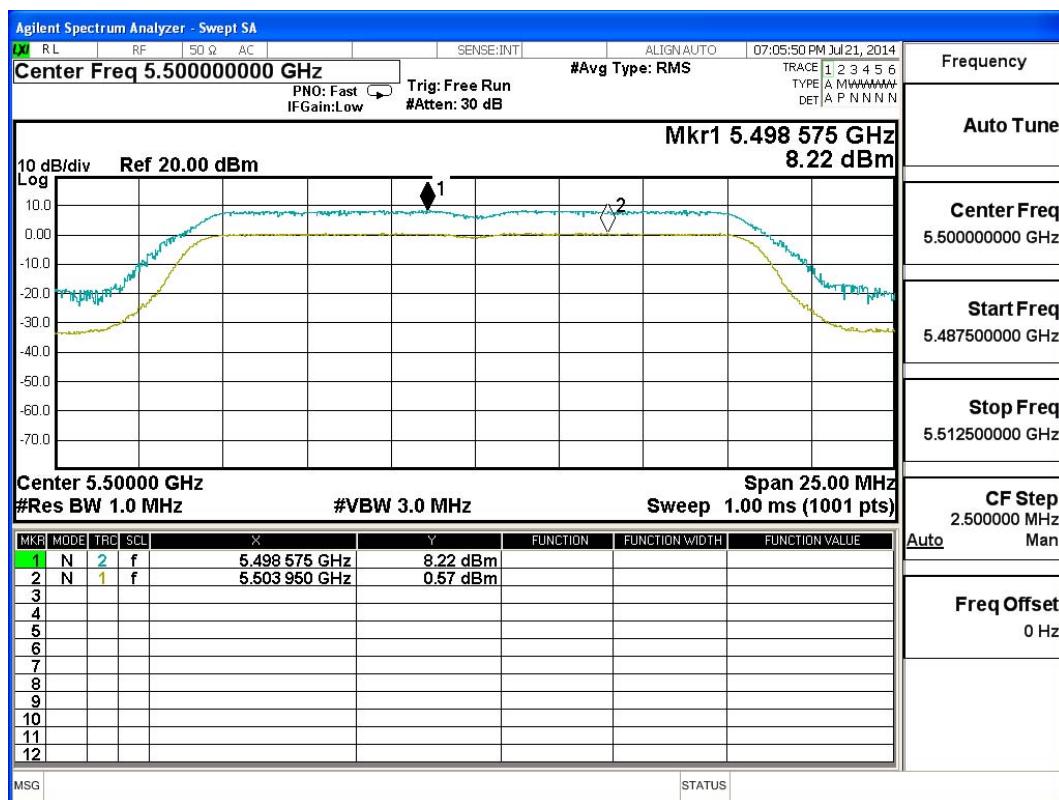
Product : Play-Fi Wireless Speaker
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	6	7.460	<13	Pass
		12	7.630	<13	Pass
		24	7.580	<13	Pass
		54	7.650	<13	Pass

Channel 100:



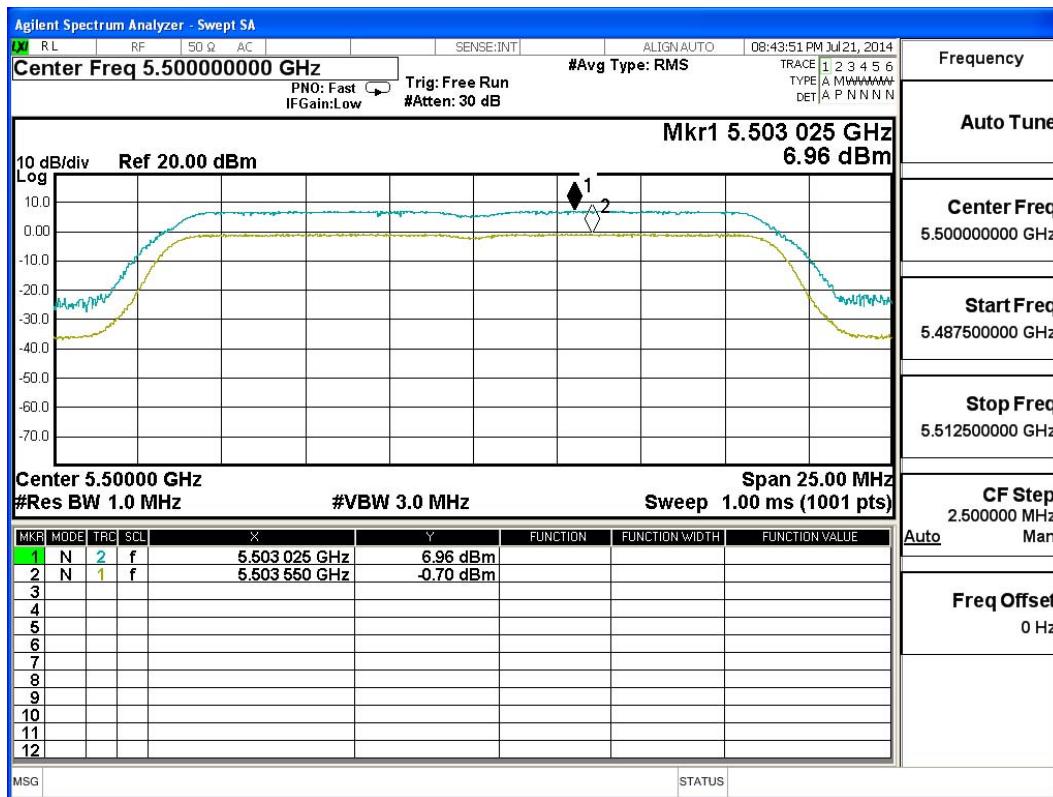


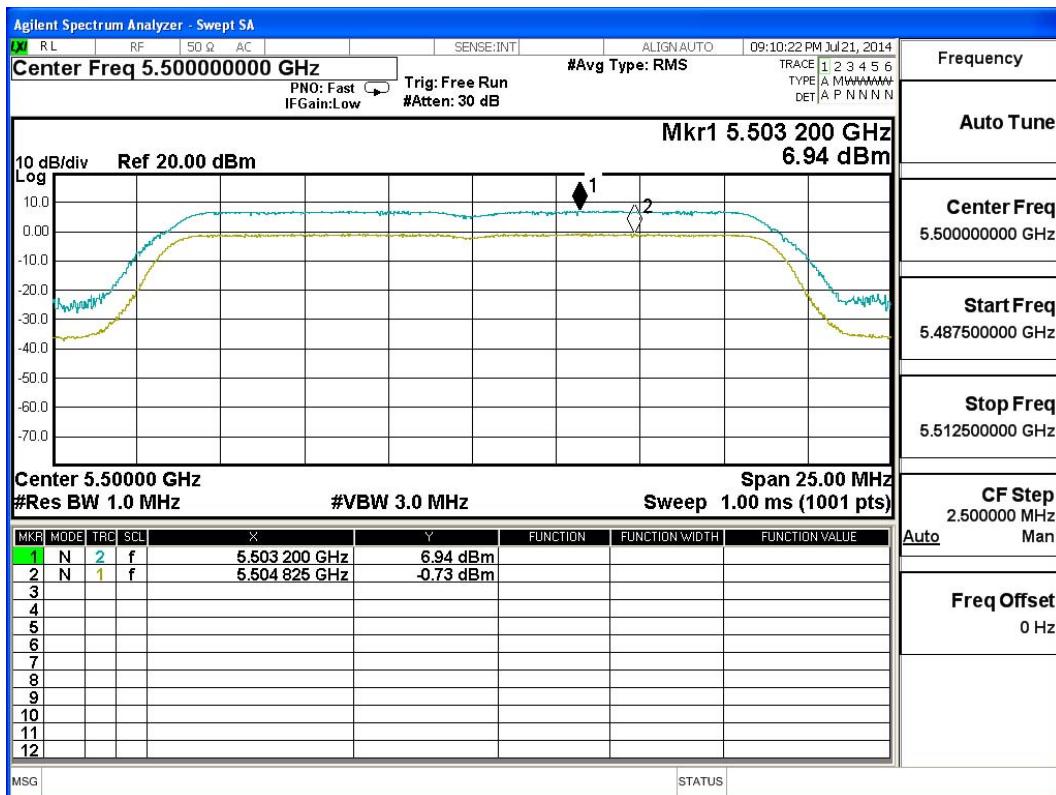
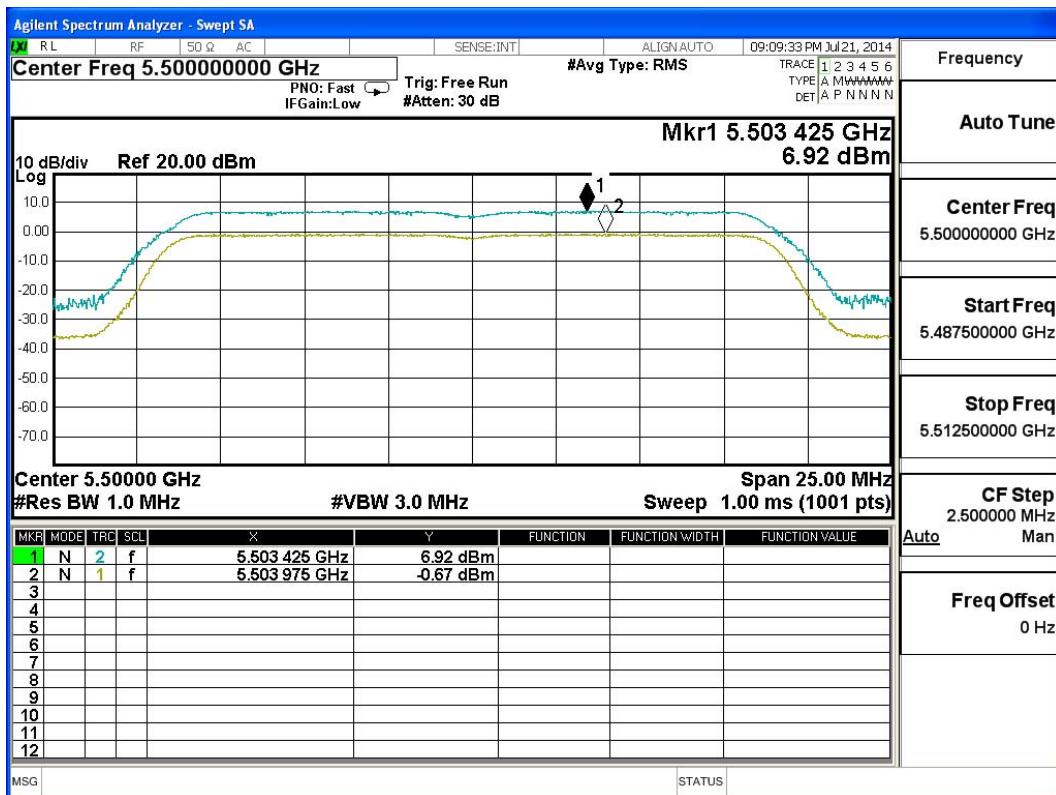


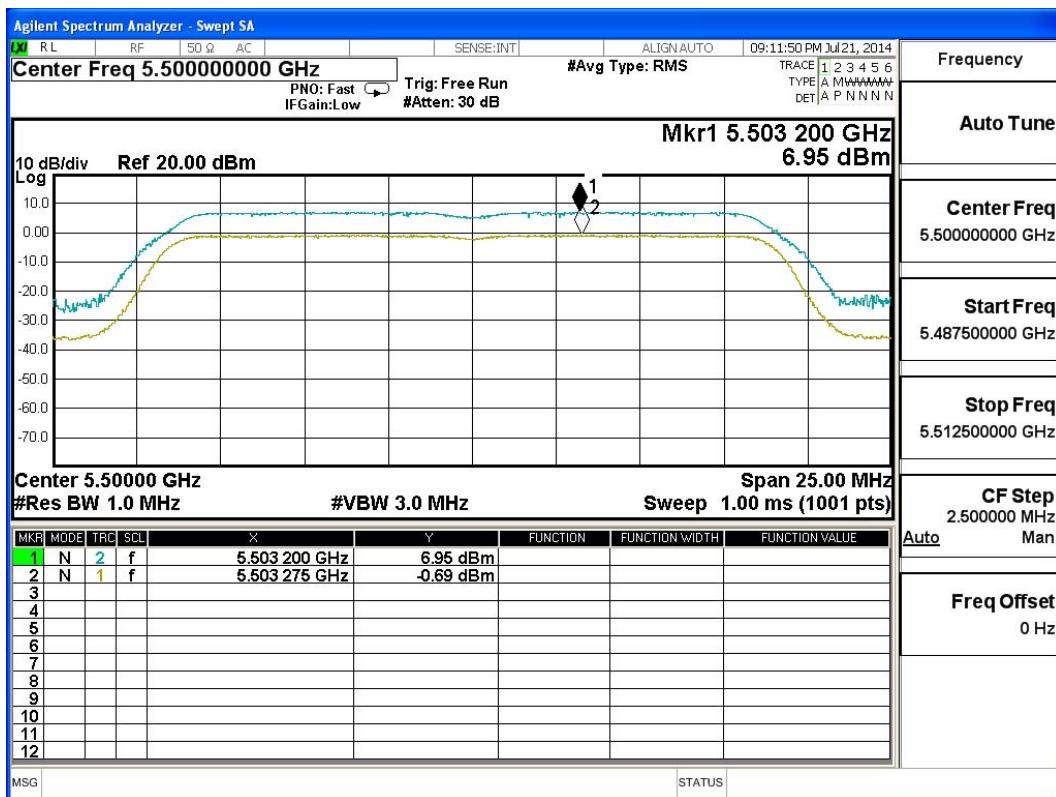
Product : Play-Fi Wireless Speaker
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 7.2Mbps)

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	7.660	<13	Pass
		MCS (2)	7.590	<13	Pass
		MCS (4)	7.670	<13	Pass
		MCS (7)	7.640	<13	Pass

Channel 100:







Product : Play-Fi Wireless Speaker
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 15Mbps)

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
102	5510	MCS (0)	7.850	<13	Pass
		MCS (2)	7.580	<13	Pass
		MCS (4)	7.880	<13	Pass
		MCS (7)	7.820	<13	Pass

Channel 102:

