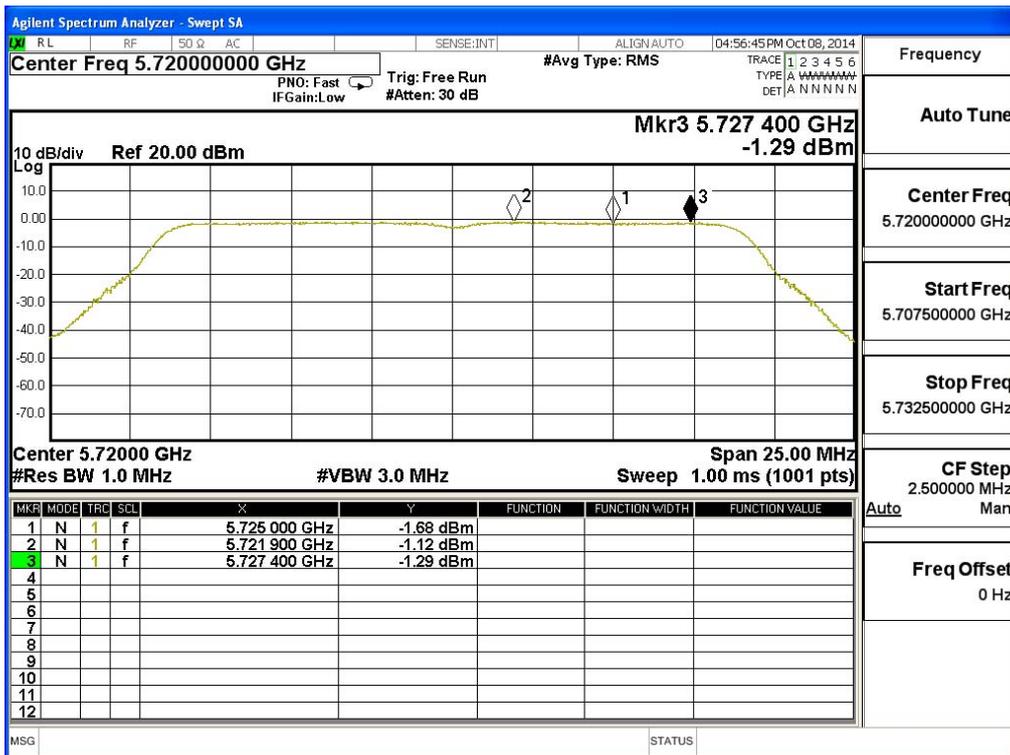


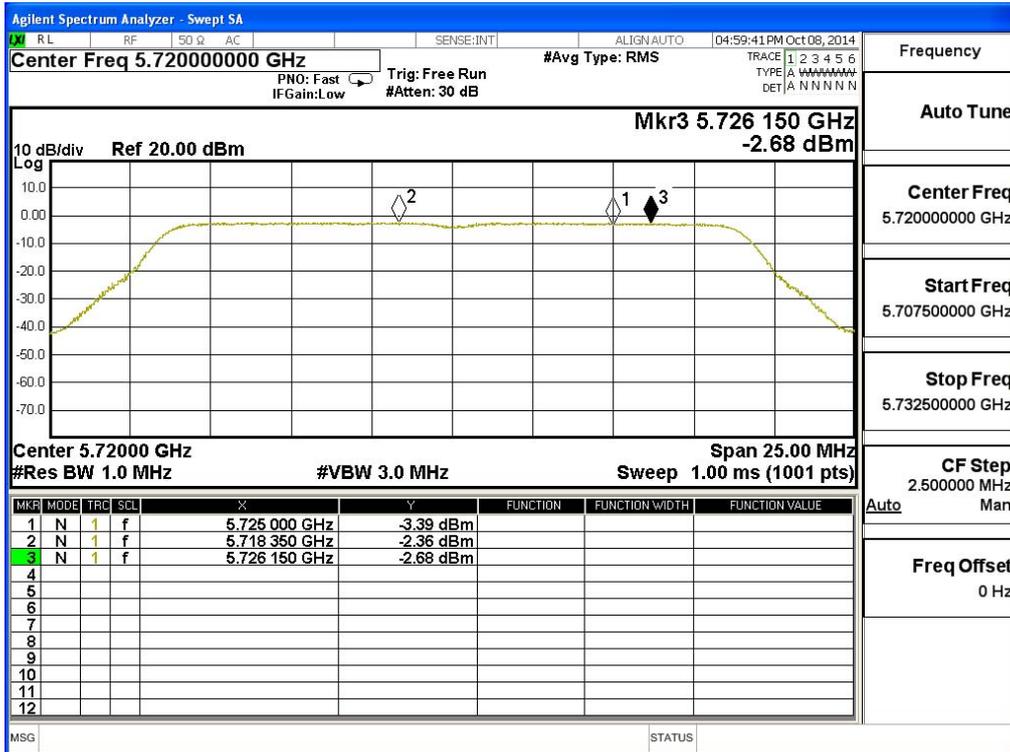
Product : Nexus Player
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 4: Transmit (802.11ac-20BW-7.2Mbps)

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Required Limit (dBm)	Result
144	5720(Band3)	A	-1.120	1.890	<11	Pass
		B	-2.360	0.650	<11	Pass
144	5720(Band4)	A	-1.290	1.720	<11	Pass
		B	-2.680	0.330	<11	Pass

Channel 144 – Chain A



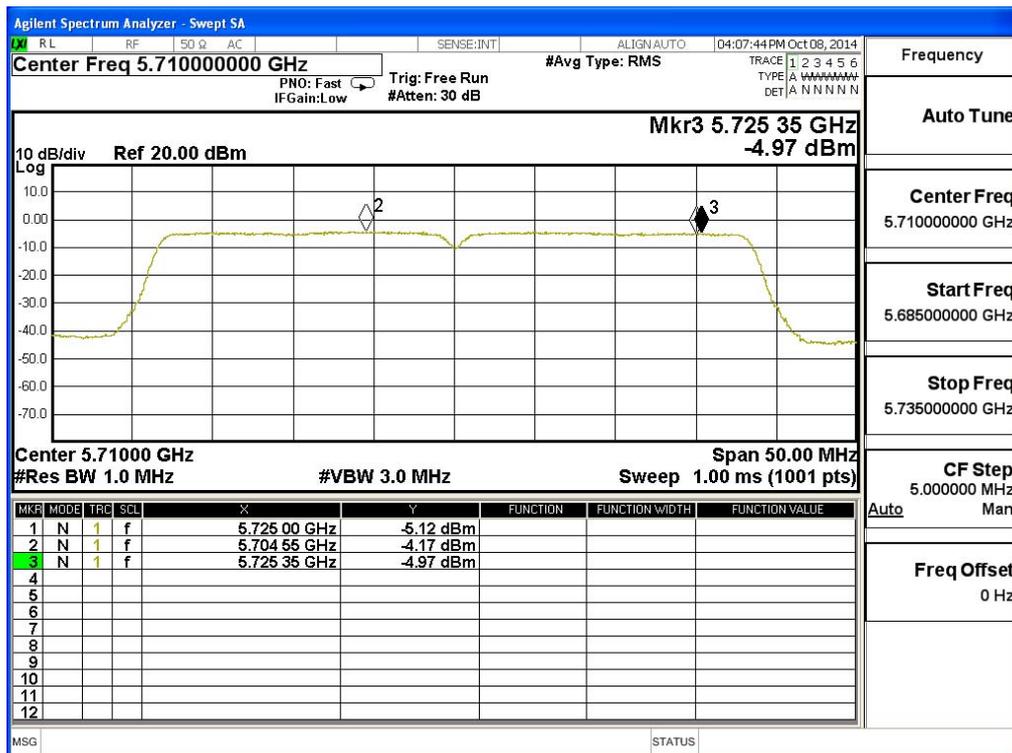
Channel 144 – Chain B



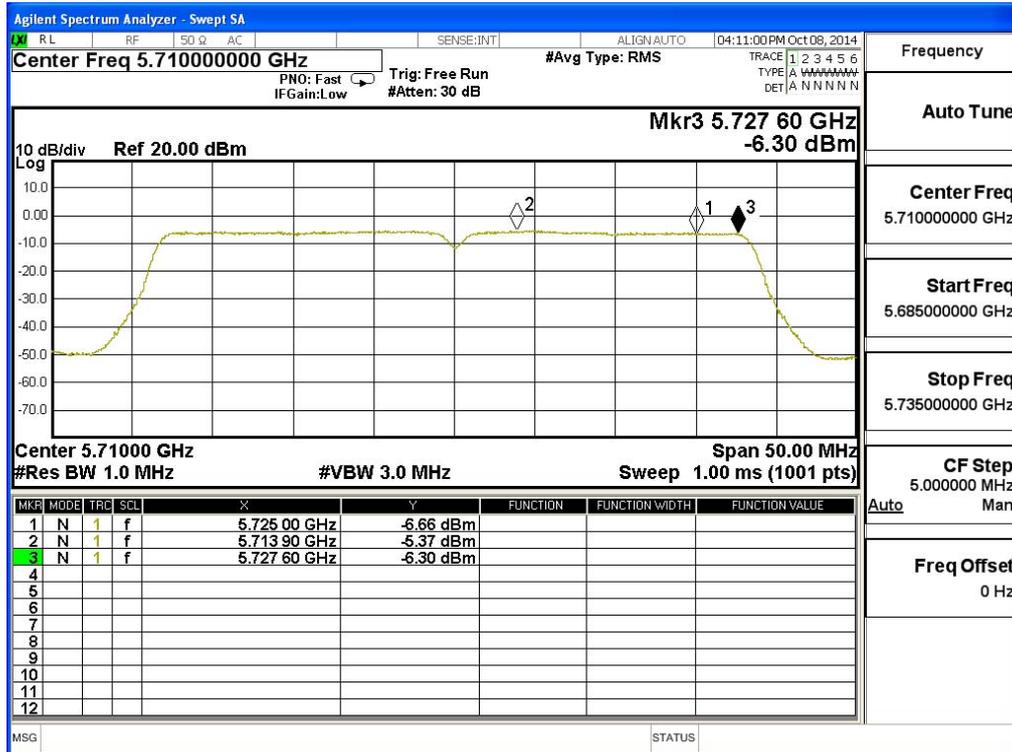
Product : Nexus Player
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit (802.11ac-40BW-15Mbps)

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Required Limit (dBm)	Result
142	5710(Band3)	A	-4.170	-1.160	<11	Pass
		B	-5.370	-2.360	<11	Pass
142	5710(Band4)	A	-4.970	-1.960	<11	Pass
		B	-6.300	-3.290	<11	Pass

Channel 142 – Chain A



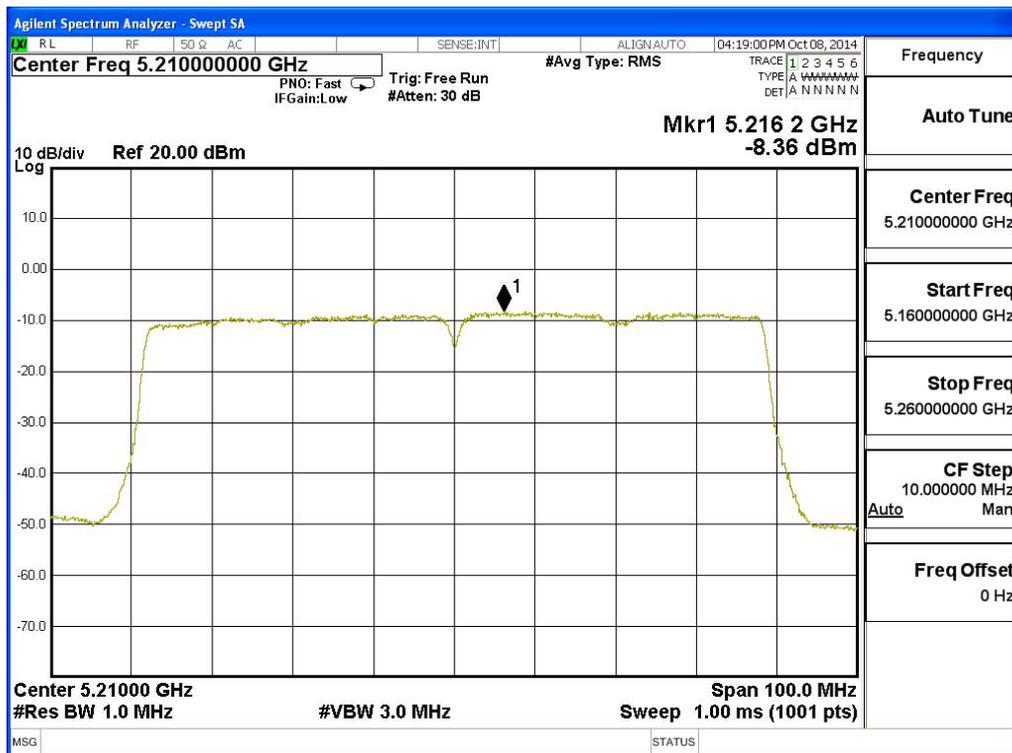
Channel 142 – Chain B



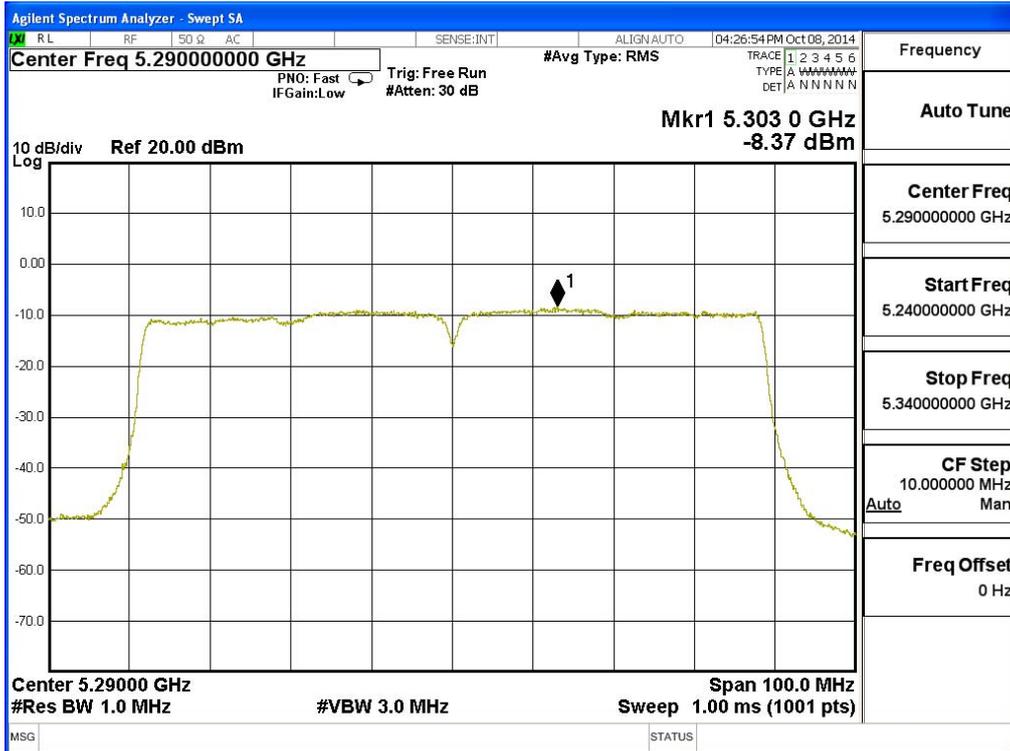
Product : Nexus Player
 Test Item : Peak Power Spectral Density
 Test Site : No.3 OATS
 Test Mode : Mode 5: Transmit (802.11ac-40BW-15Mbps)

Channel Number	Frequency (MHz)	Chain	PPSD/MHz (dBm)	Total PPSD/MHz (dBm) ¹	Required Limit (dBm)	Result
42	5210	A	-8.360	-5.350	<11	Pass
		B	-9.550	-6.540	<11	Pass
58	5290	A	-8.370	-5.360	<11	Pass
		B	-9.720	-6.710	<11	Pass
106	5530	A	-8.560	-5.550	<11	Pass
		B	-9.590	-6.580	<11	Pass
138	5690 (Band3)	A	-8.750	-5.740	<11	Pass
		B	-9.790	-6.780	<11	Pass
138	5690 (Band4)	A	-10.020	-7.010	<17	Pass
		B	-11.040	-8.030	<17	Pass

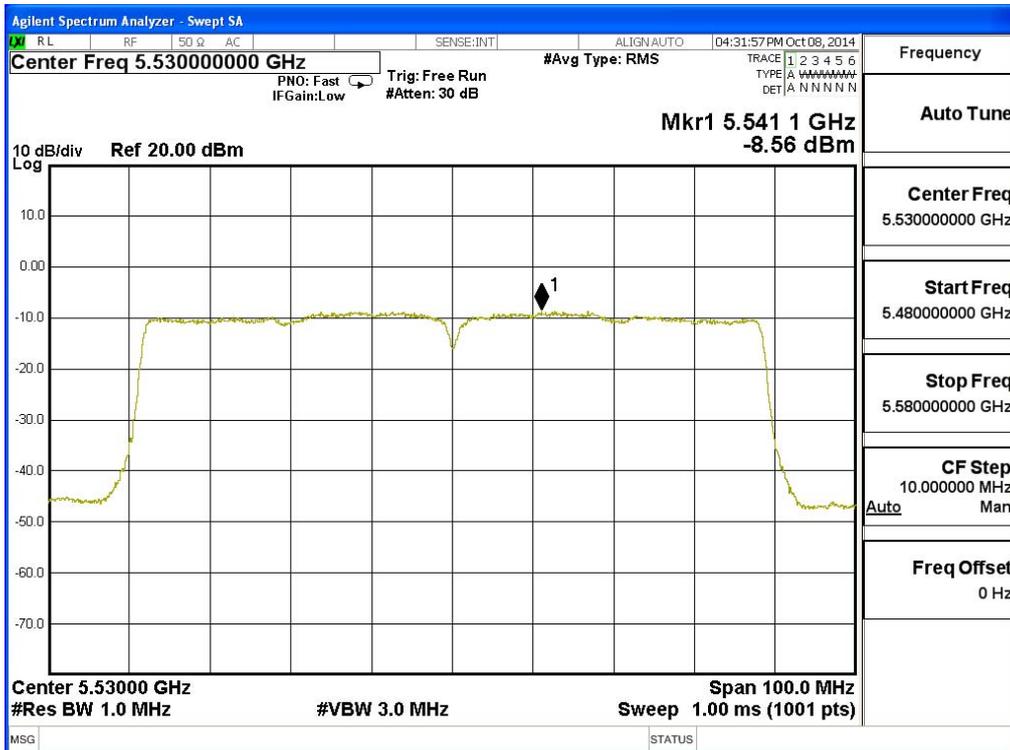
Channel 42 – Chain A



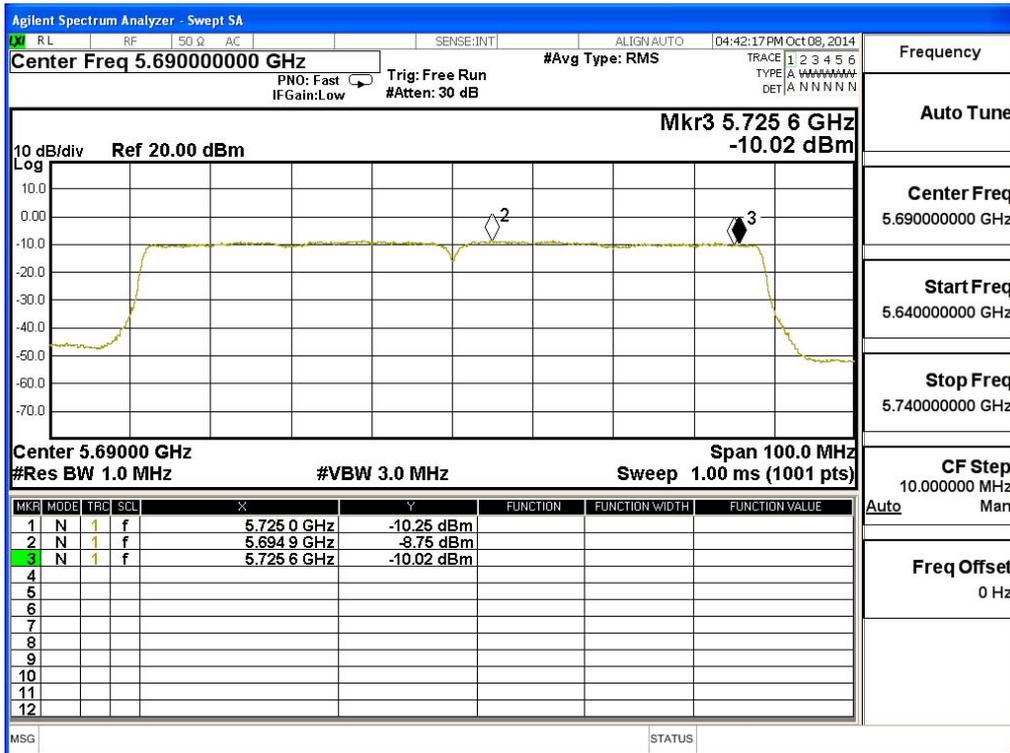
Channel 58 – Chain A



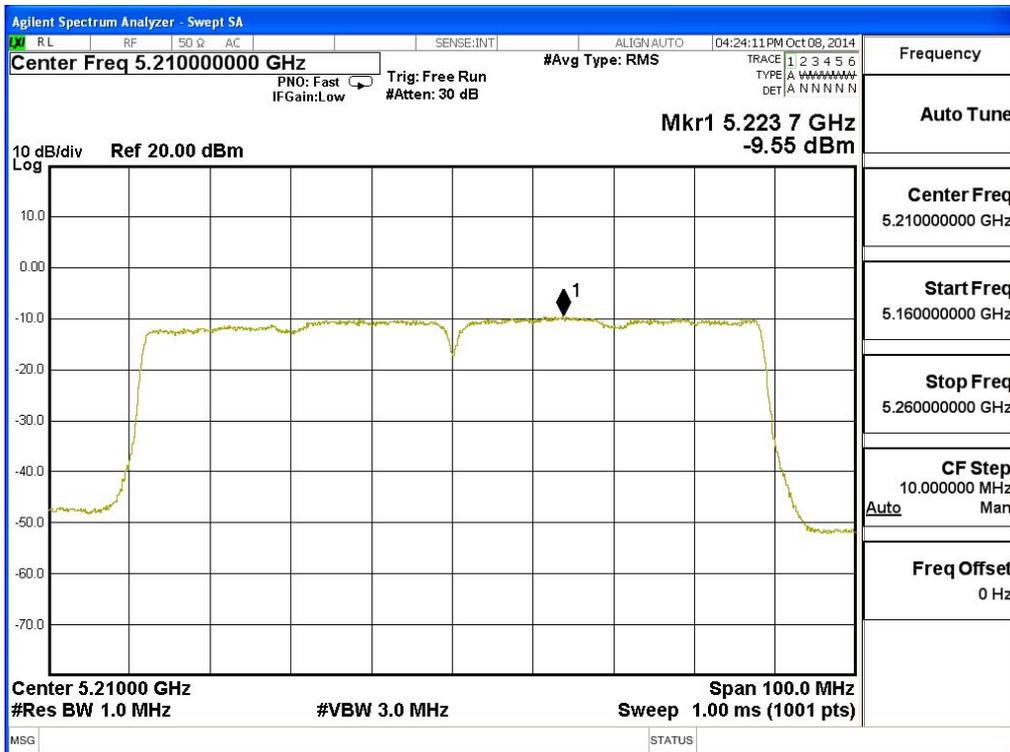
Channel 106 – Chain A



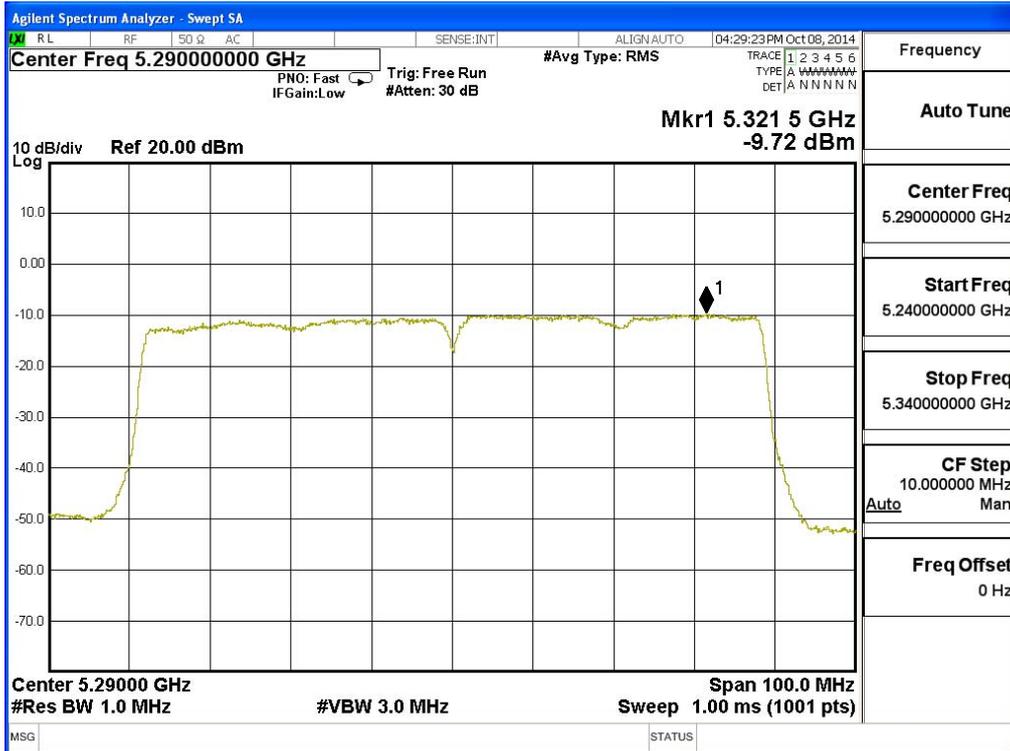
Channel 138 – Chain A



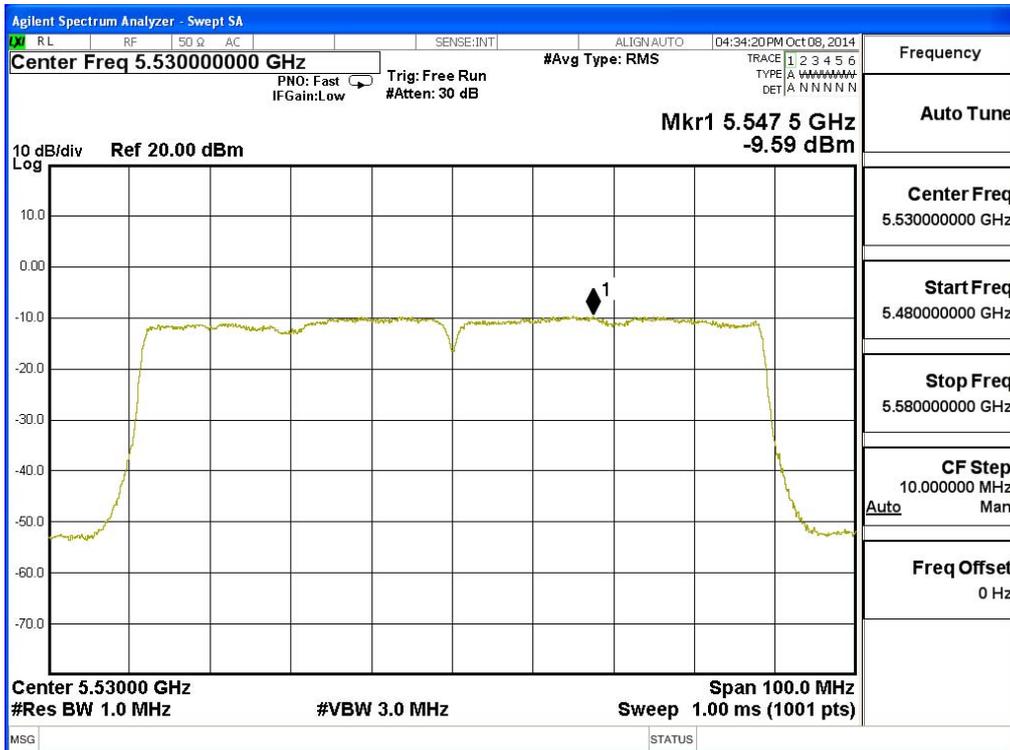
Channel 42 – Chain B



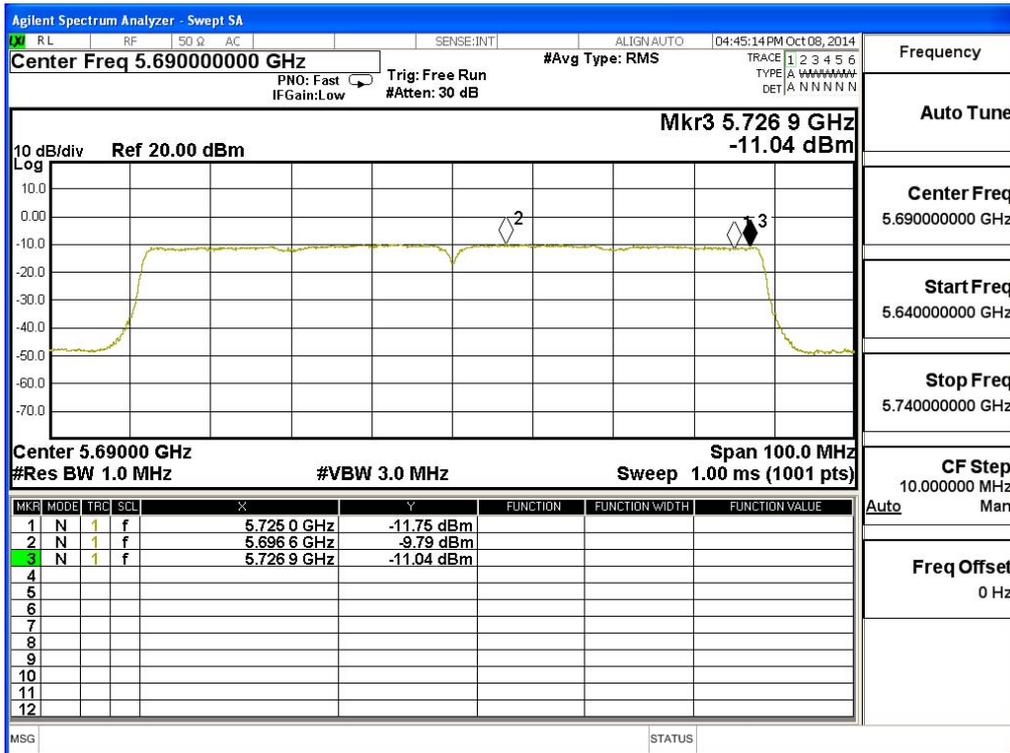
Channel 58 – Chain B



Channel 106 – Chain B



Channel 138 – Chain B



5. Peak Excursion

5.1. Test Equipment

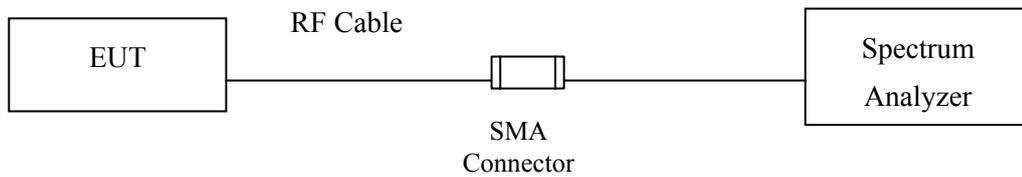
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2014
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2014
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2014

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

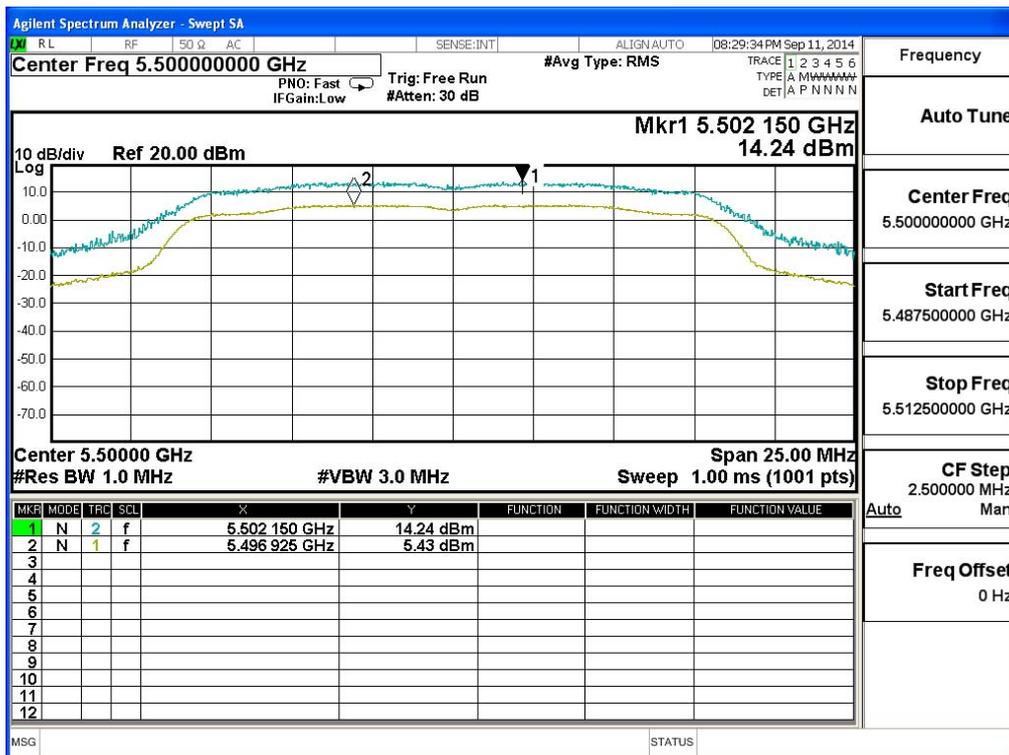
± 1.27 dB

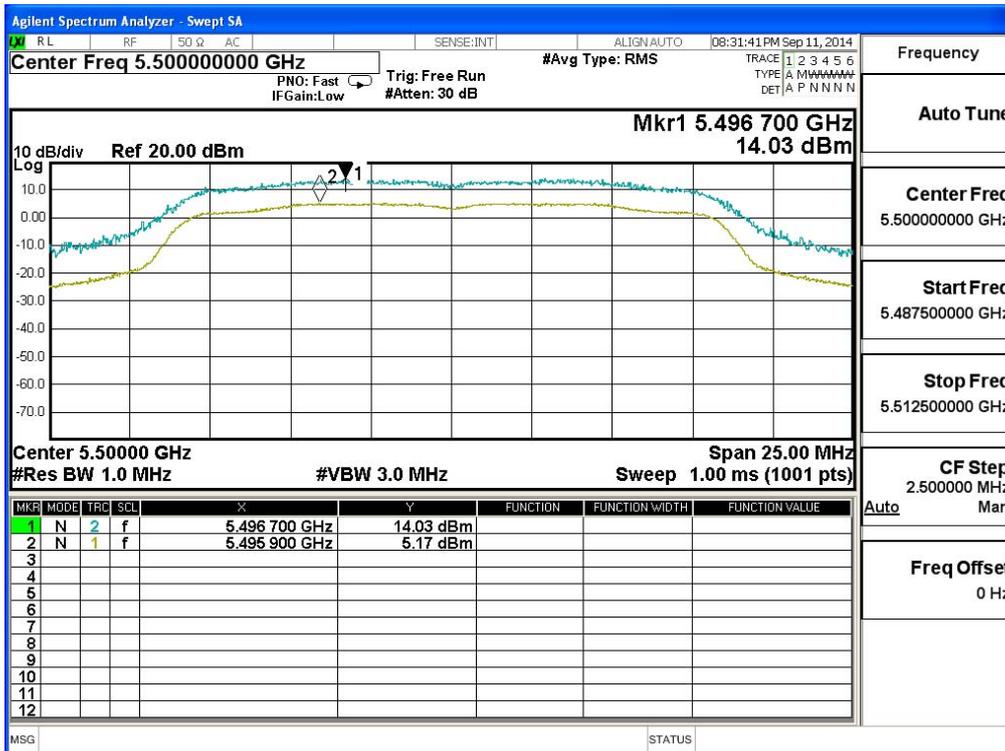
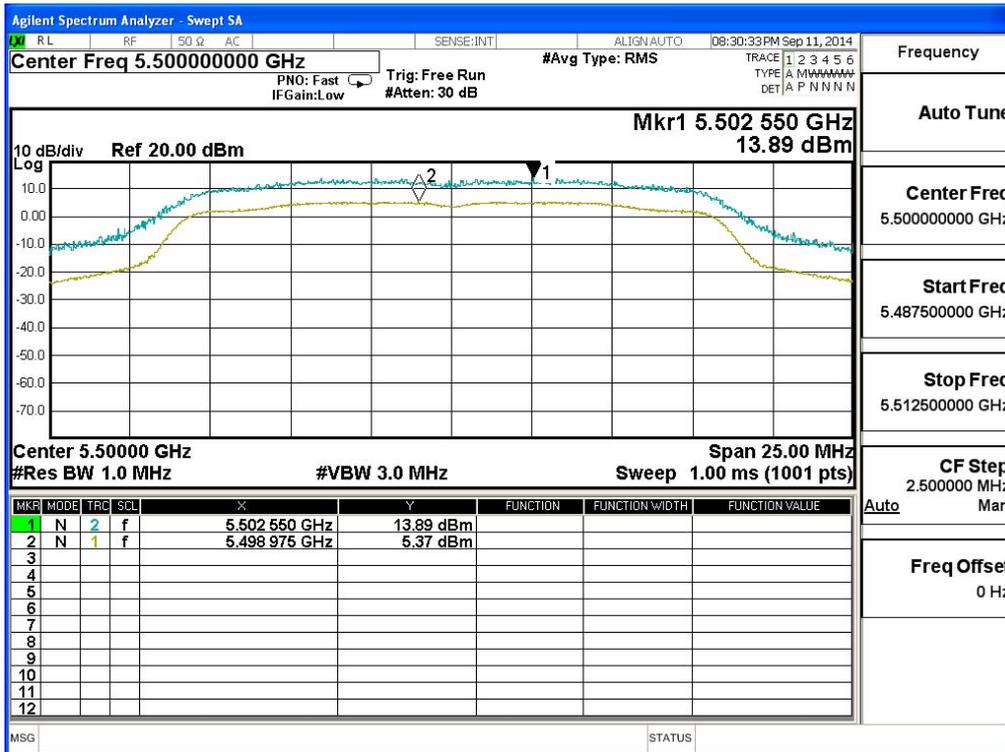
5.6. Test Result of Peak Excursion

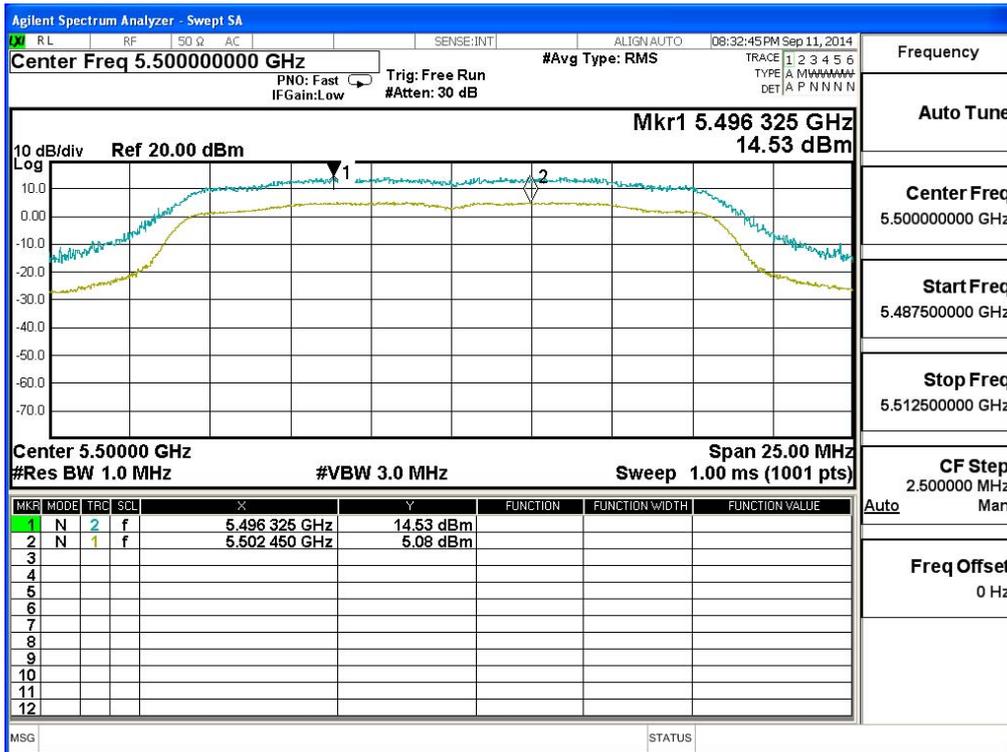
Product : Nexus Player
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	8.810	<13	Pass
		MCS (2)	8.520	<13	Pass
		MCS (4)	8.860	<13	Pass
		MCS (7)	9.450	<13	Pass

Channel 100:





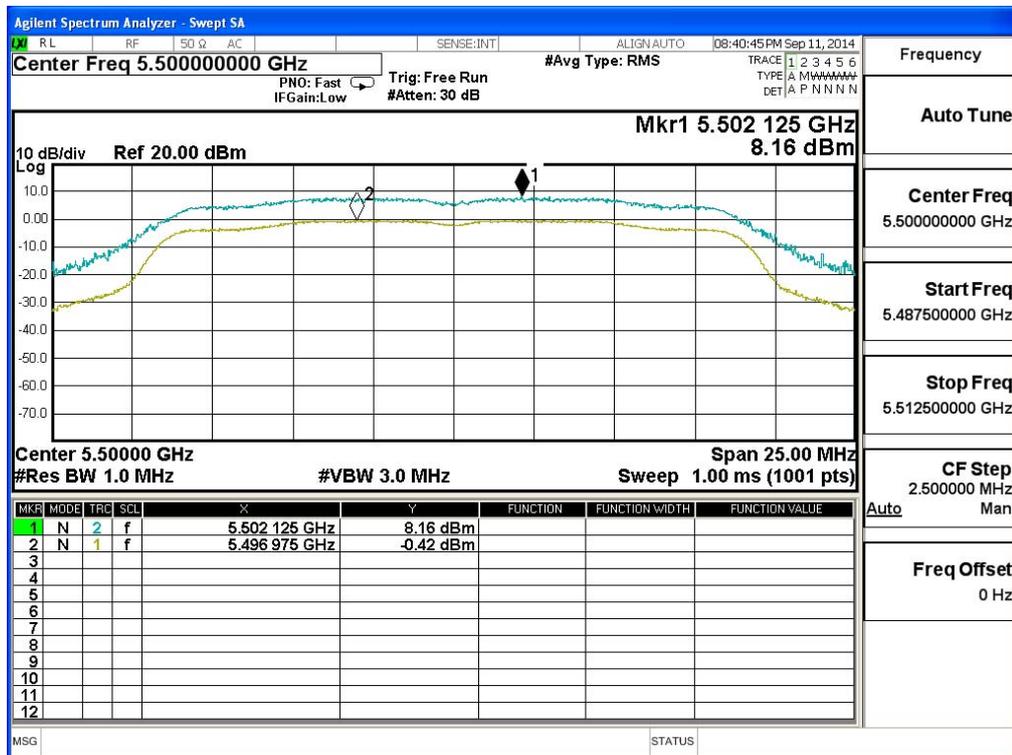


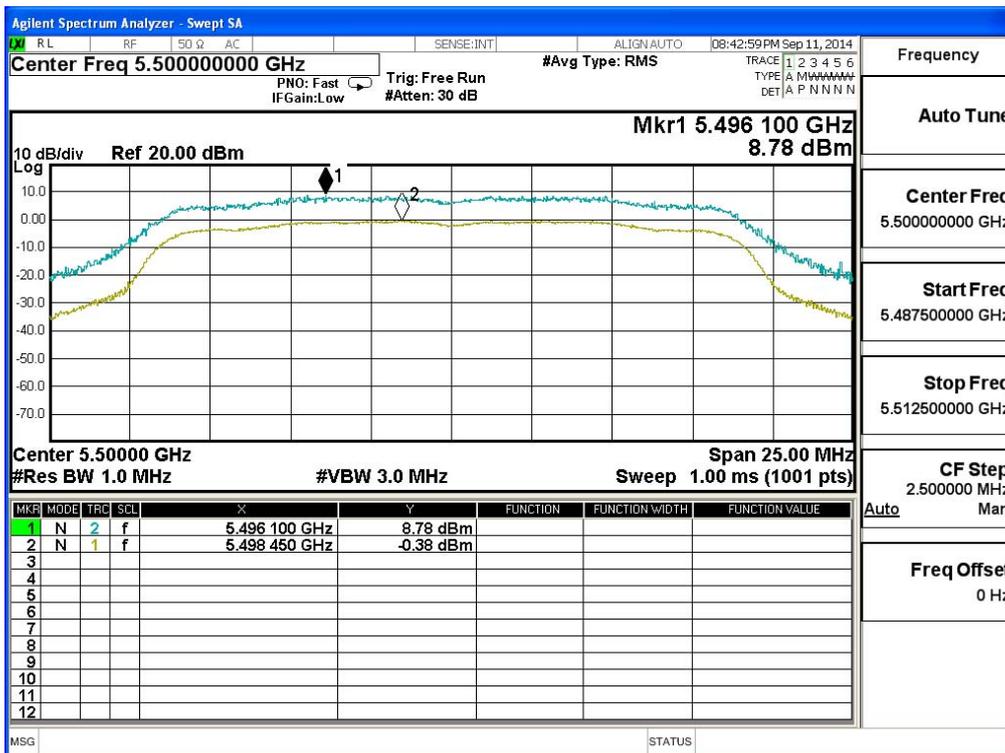
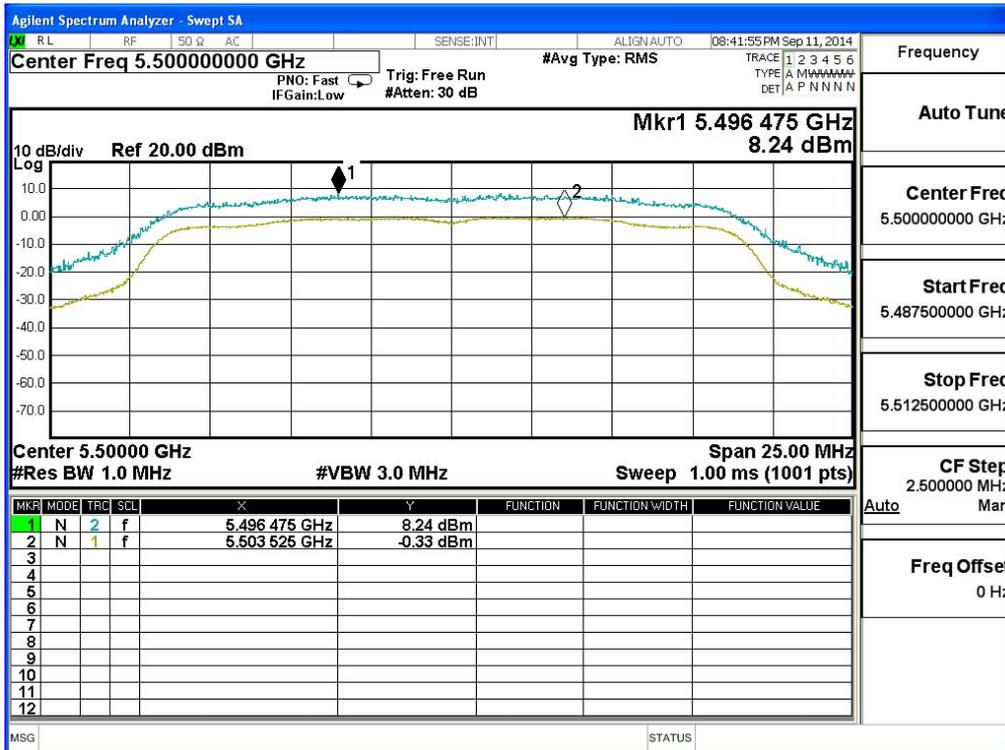
Product : Nexus Player
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11n-20BW 14.4Mbps)

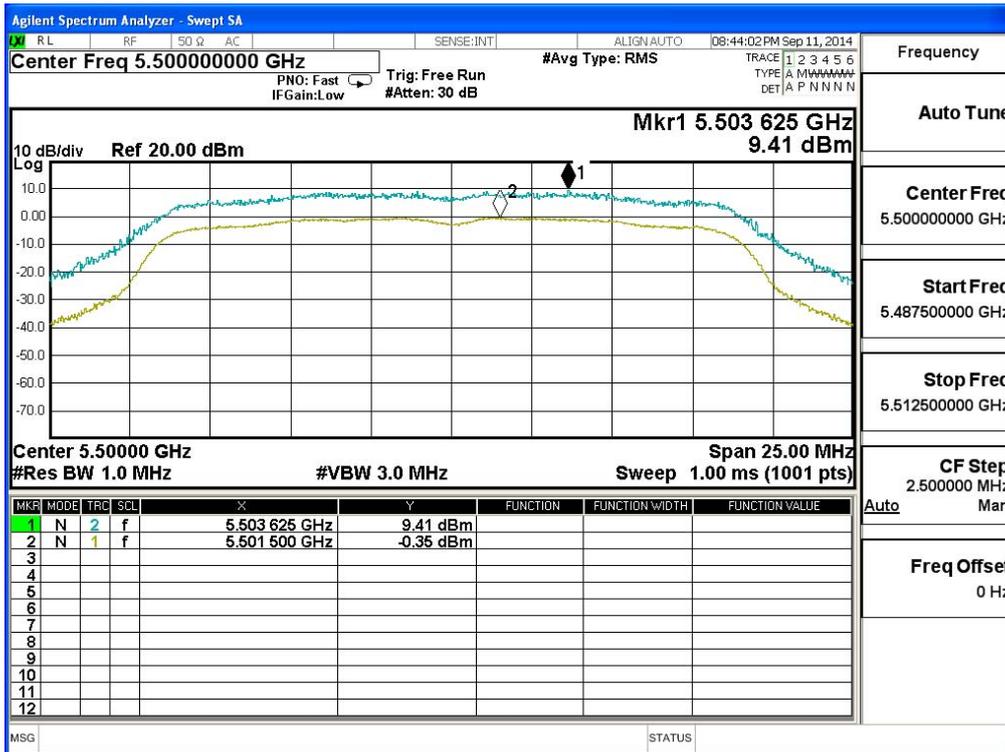
Chain A

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	8.580	<13	Pass
		MCS (2)	8.570	<13	Pass
		MCS (4)	9.160	<13	Pass
		MCS (7)	9.760	<13	Pass

Channel 100:





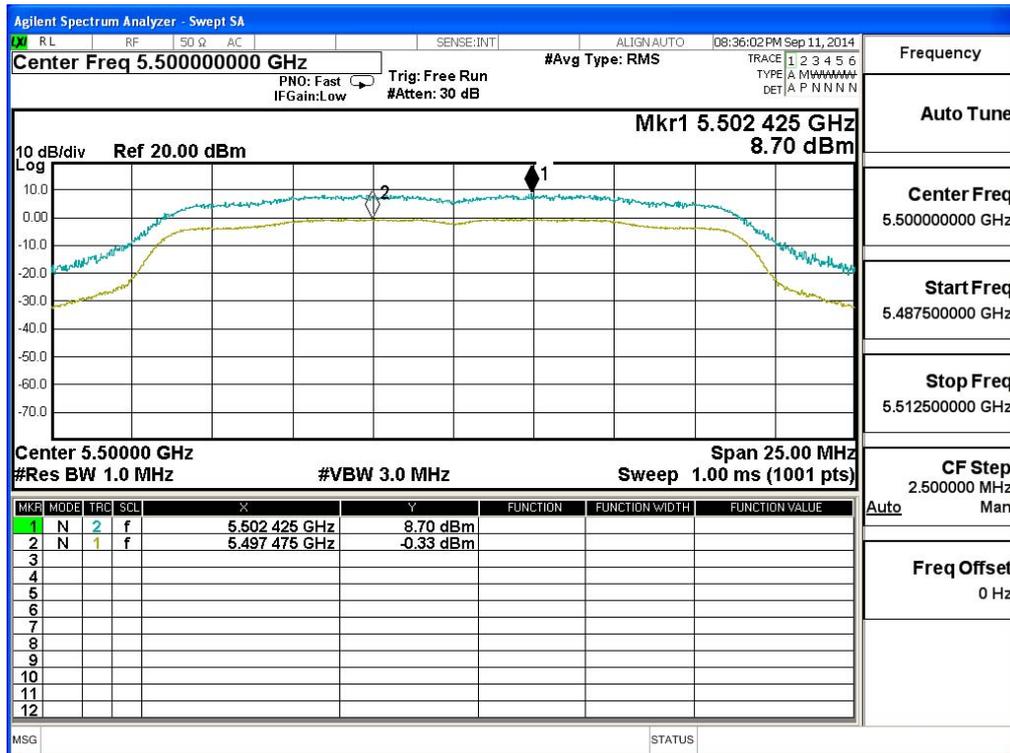


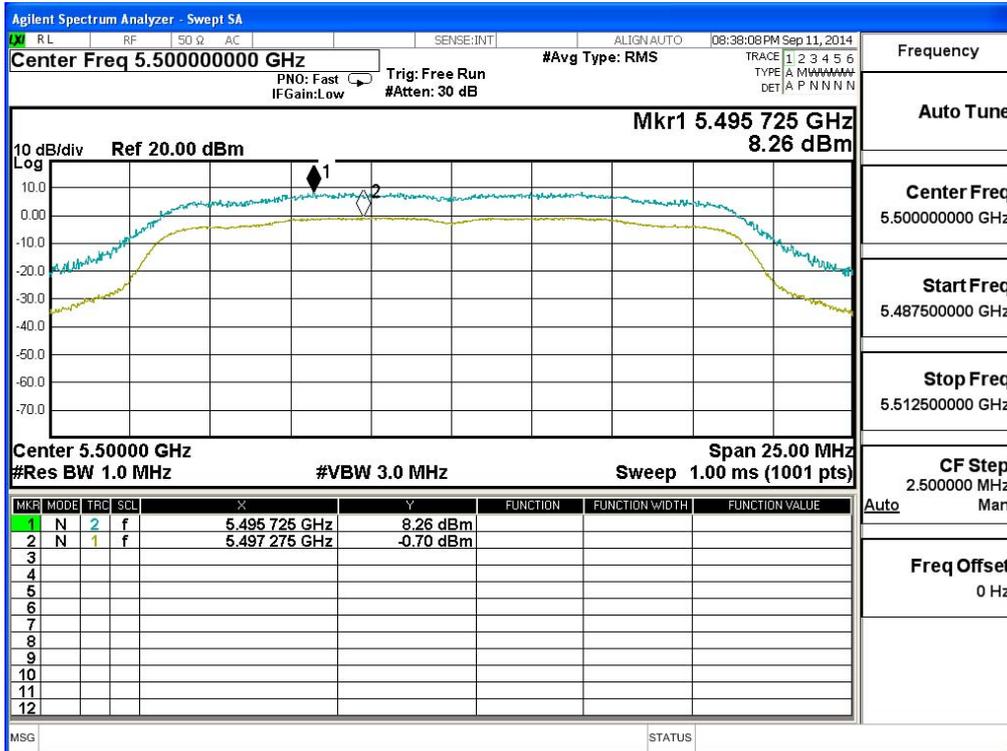
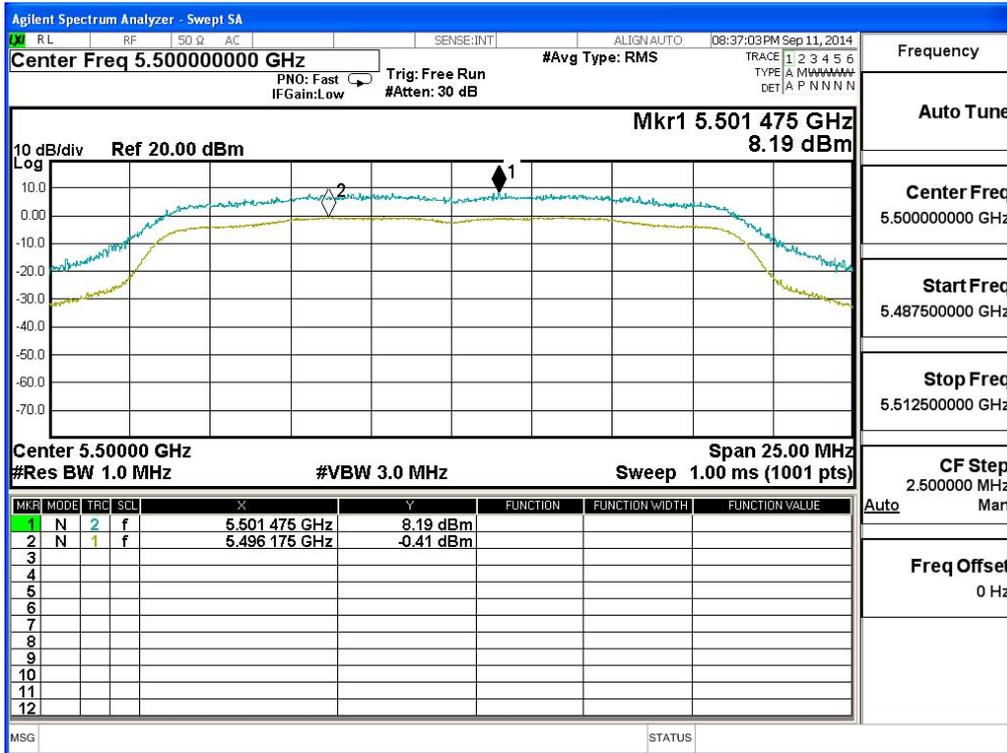
Frequency	
Auto Tune	
Center Freq	5.50000000 GHz
Start Freq	5.487500000 GHz
Stop Freq	5.512500000 GHz
CF Step	2.500000 MHz
Auto Man	
Freq Offset	0 Hz

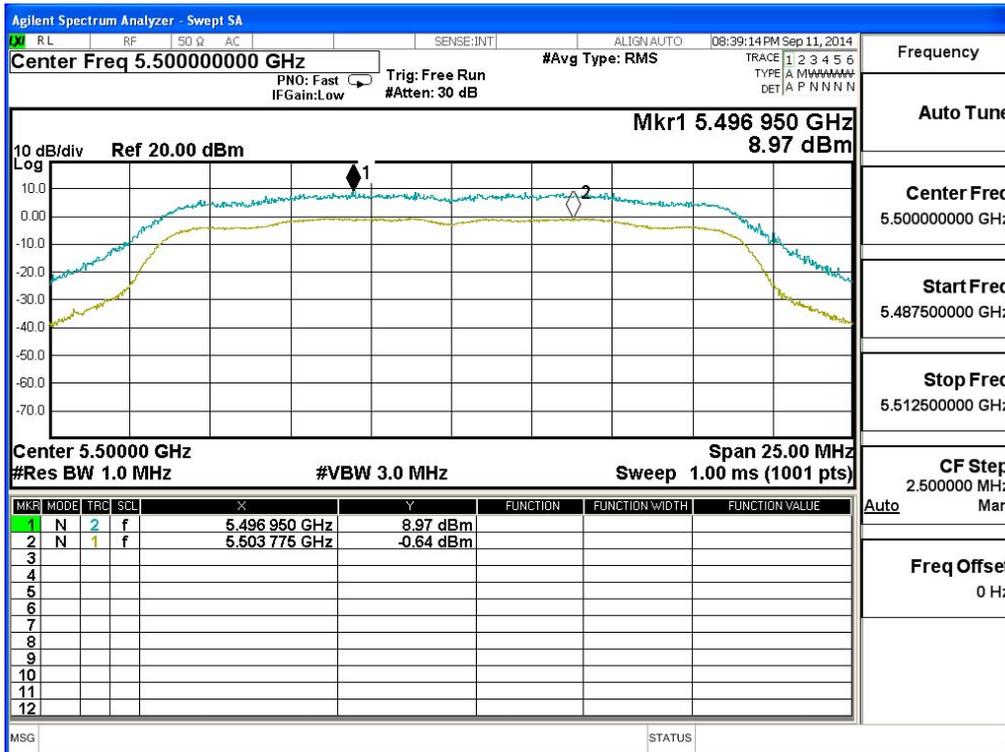
Chain B

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
100	5500	MCS (0)	9.030	<13	Pass
		MCS (2)	8.600	<13	Pass
		MCS (4)	8.960	<13	Pass
		MCS (7)	9.610	<13	Pass

Channel 100:







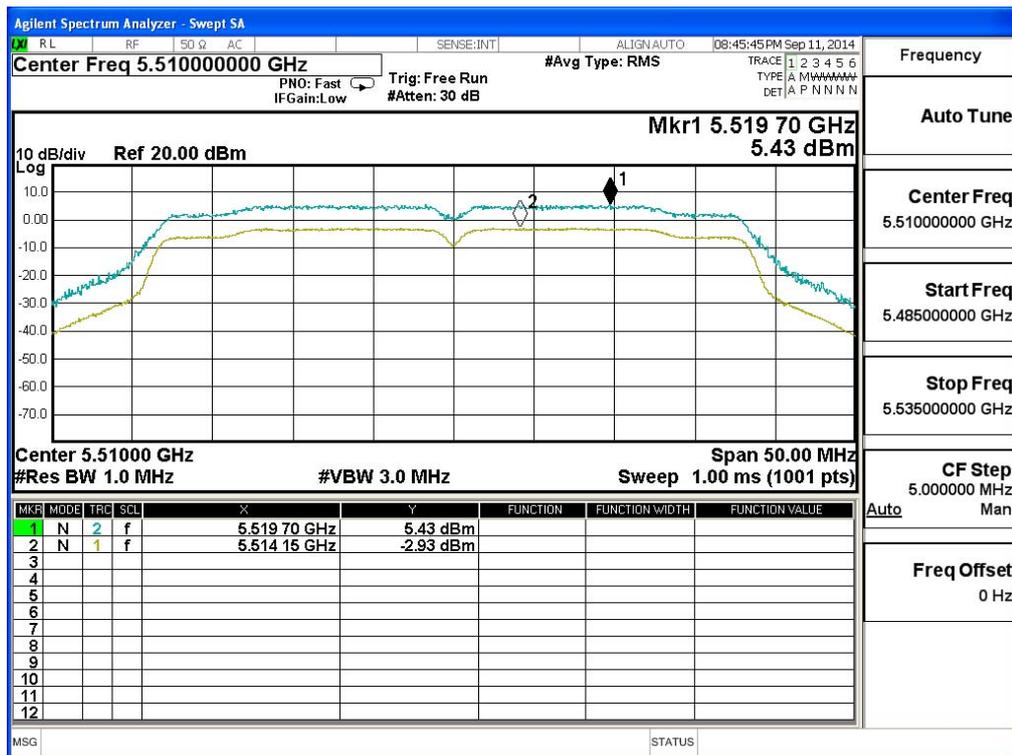
Frequency
Auto Tune
Center Freq 5.500000000 GHz
Start Freq 5.487500000 GHz
Stop Freq 5.512500000 GHz
CF Step 2.500000 MHz
Auto Man
Freq Offset 0 Hz

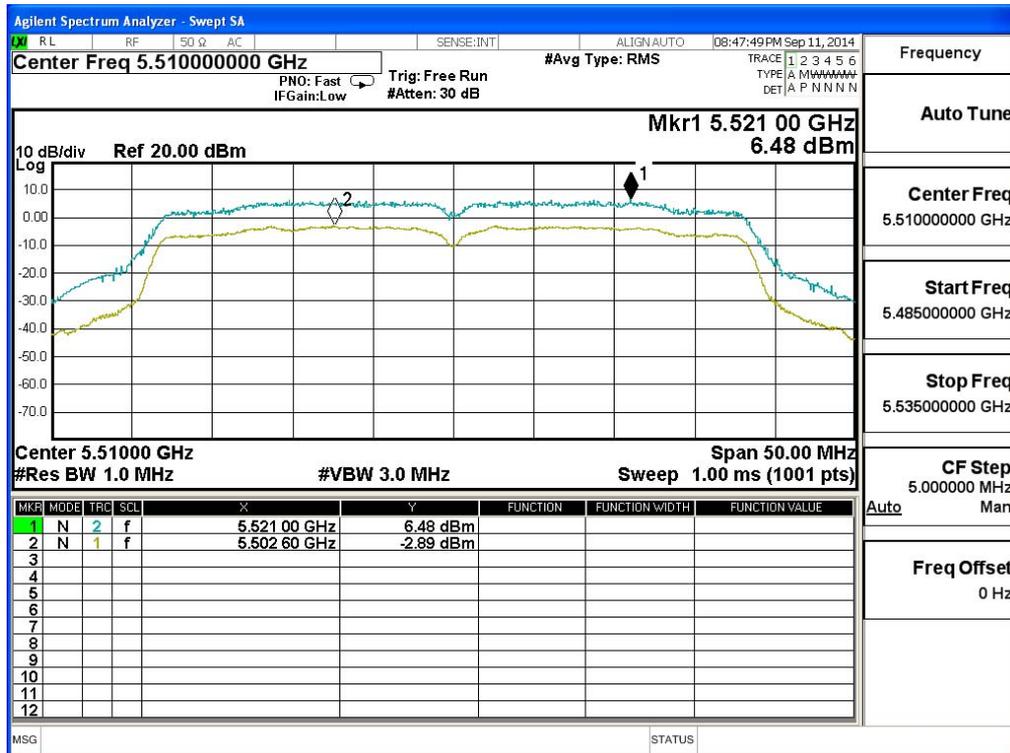
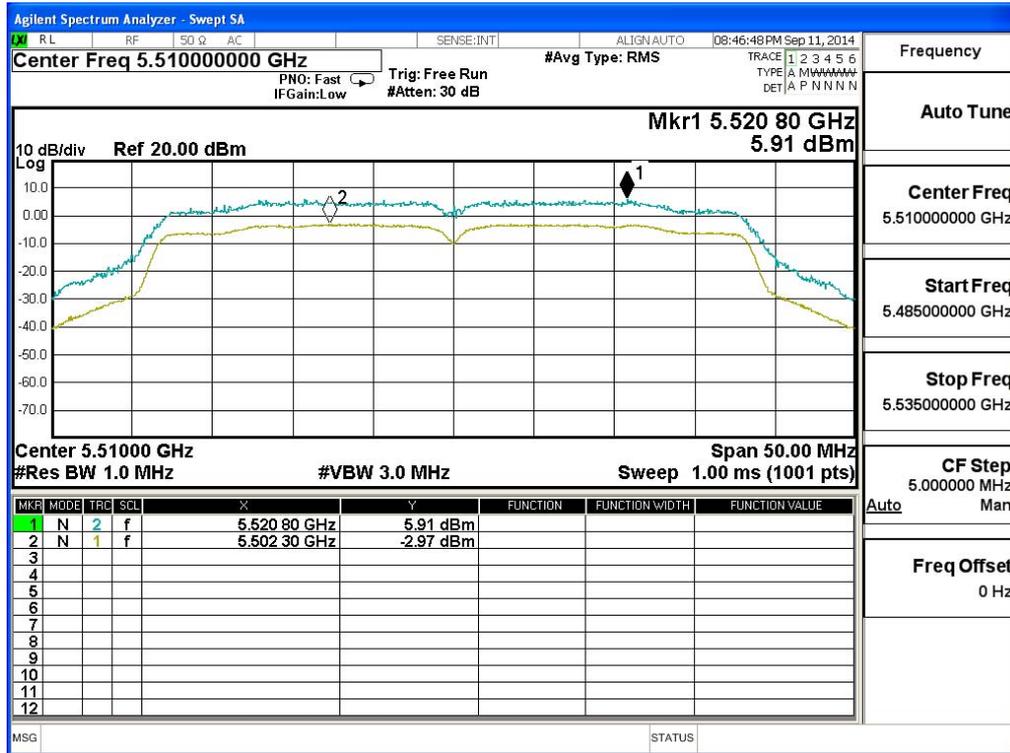
Product : Nexus Player
 Test Item : Peak Excursion
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n-40BW 30Mbps)

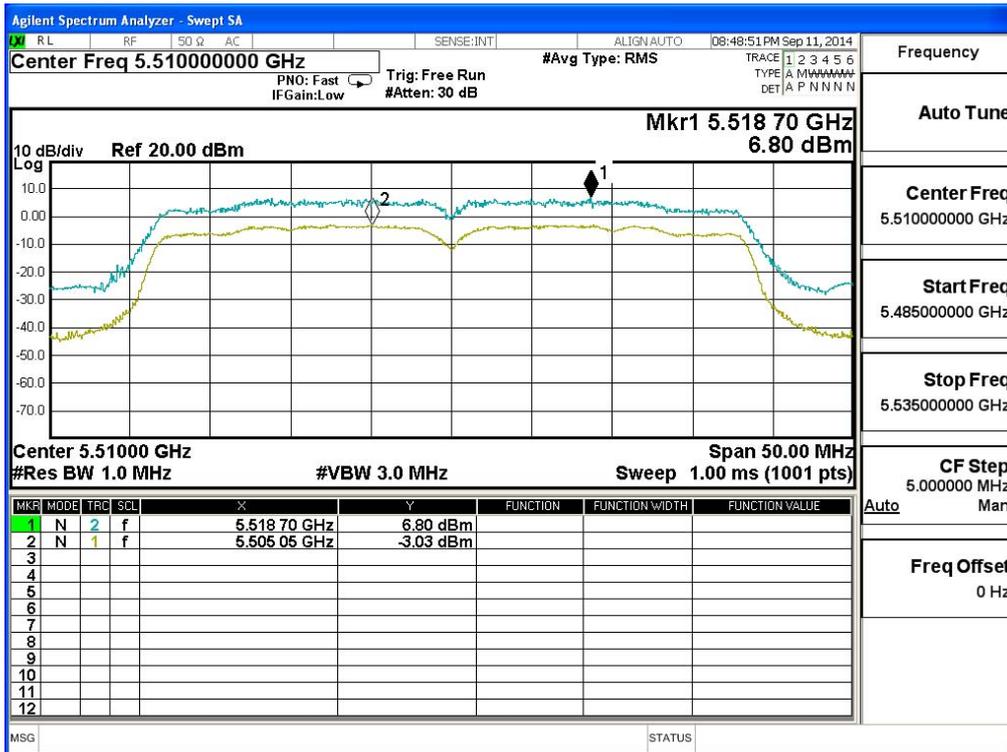
Chain A

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
102	5510	MCS (0)	8.360	<13	Pass
		MCS (2)	8.880	<13	Pass
		MCS (4)	9.370	<13	Pass
		MCS (7)	9.830	<13	Pass

Channel 102:



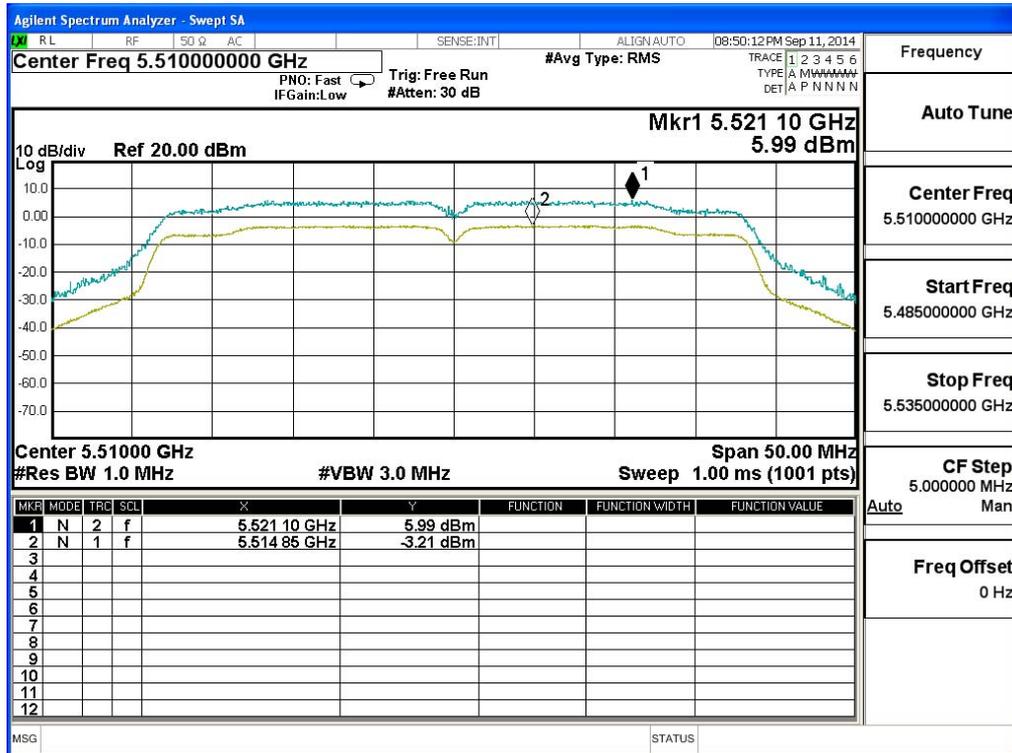


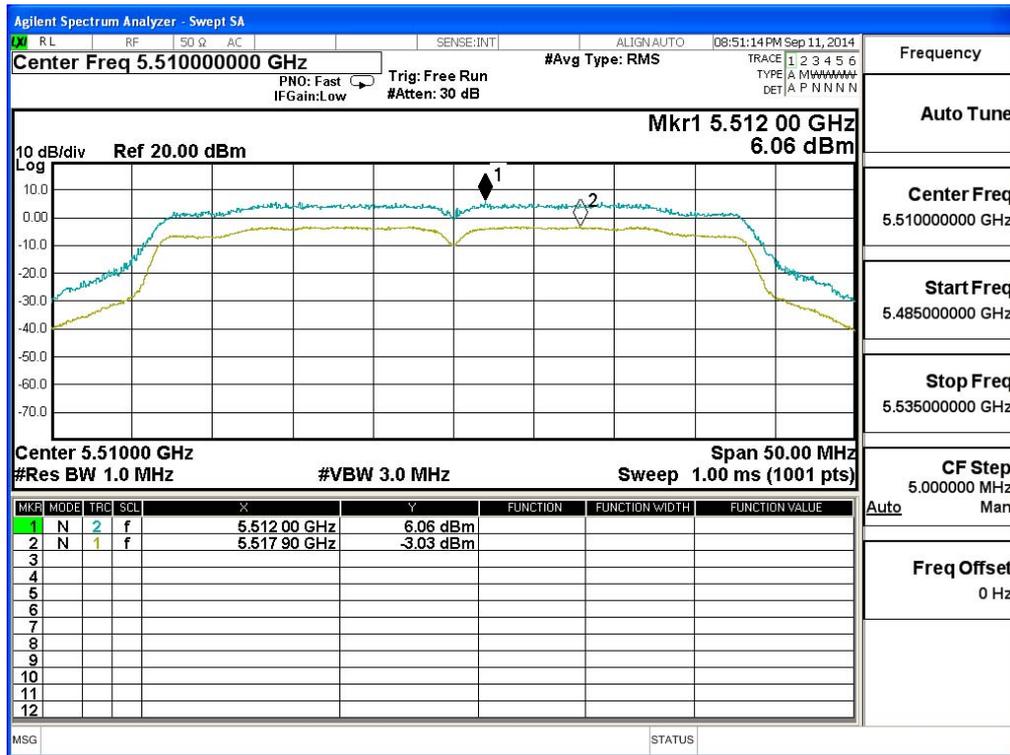


Chain B

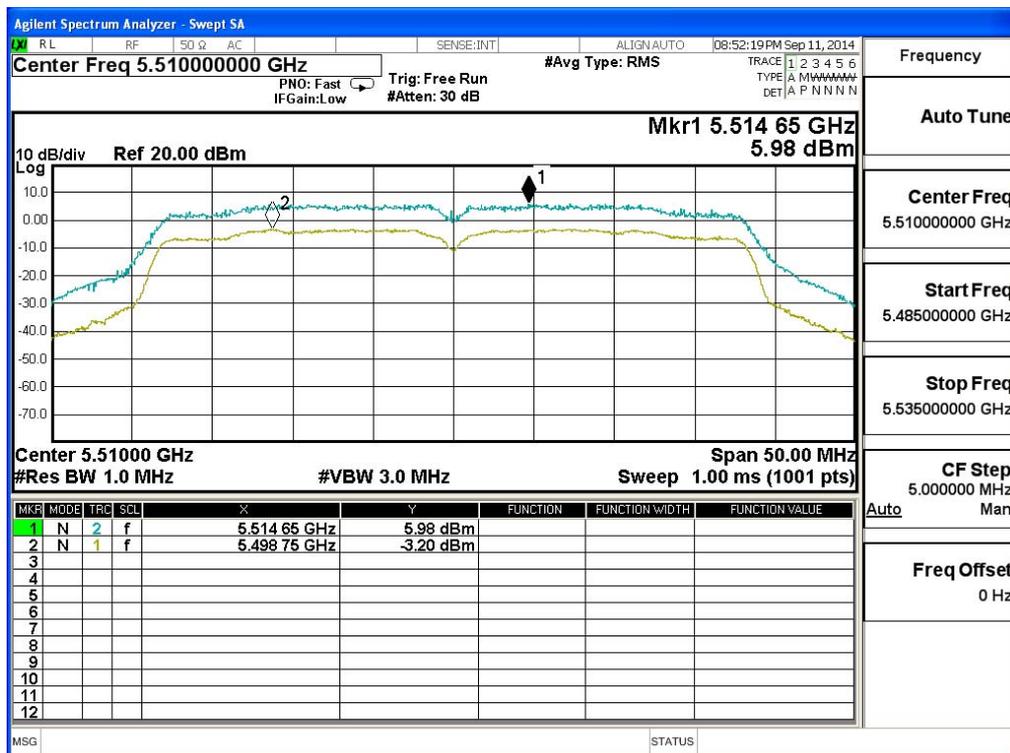
Channel No.	Frequency (MHz)	Data Rate (Mbps)	Measurement Level (dB)	Required Limit (dB)	Result
102	5510	MCS (0)	9.200	<13	Pass
		MCS (2)	9.090	<13	Pass
		MCS (4)	9.180	<13	Pass
		MCS (7)	10.230	<13	Pass

Channel 102:





Frequency	
Auto Tune	
Center Freq	5.510000000 GHz
Start Freq	5.485000000 GHz
Stop Freq	5.535000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz



Frequency	
Auto Tune	
Center Freq	5.510000000 GHz
Start Freq	5.485000000 GHz
Stop Freq	5.535000000 GHz
CF Step	5.000000 MHz
Auto	Man
Freq Offset	0 Hz

