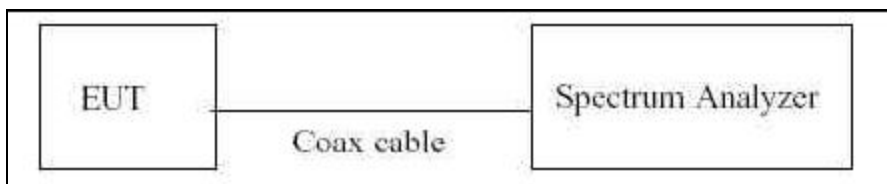


9.4 POWER SPECTRAL DENSITY

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. The maximum permissible peak power spectral density is 11 dBm/ MHz in the 5.25 GHz – 5.35 GHz and 5.47 GHz – 5.725 GHz bands

■ TEST CONFIGURATION



■ TEST PROCEDURE

We tested according to Method in KDB 789033(issued 04/08/2013).

The spectrum analyzer is set to :

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz.
3. VBW $\geq$ 3 MHz.
4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

■ Sample Calculation

PSD = Reading Value + ATT loss + Cable loss(1 ea) + Duty Cycle Factor

Output Power = -5 dBm + 10 dB + 0.8 dB + 0.21 dB = 16.01 dBm

Note :

1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset = Attenuator loss + Cable loss
3. We apply to the offset in the UNII 2/2e band that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table. We used the particular cable type that is supported by manufacture.

Band	Loss(dB)
UNII 2	21.0
UNII 2e	21.0

(Actual value of loss for the attenuator and cable combination)

Monitoring Port Ant.1

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11a	-5.578	0.366	-5.212	11	Pass
5300	60		-5.564	0.366	-5.198	11	Pass
5320	64		-5.375	0.366	-5.009	11	Pass
5500	100	802.11a	-5.655	0.366	-5.289	11	Pass
5600	120		-4.898	0.106	-4.792	11	Pass
5700	140		-5.895	0.366	-5.529	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11n	-5.958	0.102	-5.856	11	Pass
5300	60	20MHz	-5.859	0.102	-5.757	11	Pass
5320	64	BW	-5.607	0.102	-5.505	11	Pass
5500	100	802.11n	-5.906	0.102	-5.804	11	Pass
5600	120	20MHz	-5.039	0.102	-4.937	11	Pass
5700	140	BW	-5.942	0.102	-5.840	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5270	54	802.11n	-12.962	0.969	-11.993	11	Pass
5310	62	40MHz BW	-9.509	0.157	-9.352	11	Pass
5510	102	802.11n 40MHz BW	-10.411	0.157	-10.254	11	Pass
5590	118		-9.921	0.157	-9.764	11	Pass
5670	134		-9.874	0.157	-9.717	11	Pass

Monitoring Port Ant.2

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11a	-6.250	0.366	-5.884	11	Pass
5300	60		-5.634	0.366	-5.268	11	Pass
5320	64		-5.397	0.366	-5.031	11	Pass
5500	100	802.11a	-6.391	0.366	-6.025	11	Pass
5600	120		-6.139	0.282	-5.857	11	Pass
5700	140		-6.202	0.282	-5.920	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11n	-6.453	0.102	-6.351	11	Pass
5300	60	20MHz	-5.940	0.102	-5.838	11	Pass
5320	64	BW	-5.703	0.102	-5.601	11	Pass
5500	100	802.11n	-6.402	0.102	-6.300	11	Pass
5600	120	20MHz	-6.520	0.102	-6.418	11	Pass
5700	140	BW	-6.611	0.102	-6.509	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5270	54	802.11n	-10.352	0.157	-10.195	11	Pass
5310	62	40MHz BW	-9.270	0.157	-9.113	11	Pass
5510	102	802.11n 40MHz BW	-10.895	0.157	-10.738	11	Pass
5590	118		-10.156	0.157	-9.999	11	Pass
5670	134		-10.800	0.157	-10.643	11	Pass

Sum Data of Monitoring Port Ant.1 and Ant.2

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5260	52	802.11a	-2.52	8.49	Pass
5300	60		-2.22	8.49	Pass
5320	64		-2.01	8.49	Pass
5500	100	802.11a	-2.63	8.49	Pass
5600	120		-2.28	8.49	Pass
5700	140		-2.71	8.49	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5260	52	802.11n 20MHz BW	-3.09	11	Pass
5300	60		-2.79	11	Pass
5320	64		-2.54	11	Pass
5500	100	802.11n 20MHz BW	-3.03	11	Pass
5600	120		-2.60	11	Pass
5700	140		-3.15	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5270	54	802.11n 40MHz BW	-7.99	11	Pass
5310	62		-6.22	11	Pass
5510	102	802.11n 40MHz BW	-7.48	11	Pass
5590	118		-6.87	11	Pass
5670	134		-7.15	11	Pass

Note :

1. Limit is 8.49 dBm. Because directional antenna gain is 8.51 dBi for 802.11a.

2. Sample Calculation

$$11 \text{ dBm} - (8.51 \text{ dB} - 6 \text{ dB}) = 8.49 \text{ dBm}$$

Service Port Ant.1
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11a	-3.884	1.015	-2.869	11	Pass
5300	60		-4.179	0.222	-3.957	11	Pass
5320	64		-4.475	0.222	-4.253	11	Pass
5500	100	802.11a	-9.212	1.015	-8.197	11	Pass
5600	120		-8.889	1.015	-7.874	11	Pass
5700	140		-9.418	0.222	-9.196	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11n	-3.979	0.426	-3.553	11	Pass
5300	60	20MHz	-5.100	0.969	-4.131	11	Pass
5320	64	BW	-5.290	1.082	-4.208	11	Pass
5500	100	802.11n	-9.277	1.082	-8.195	11	Pass
5600	120	20MHz	-9.113	1.082	-8.031	11	Pass
5700	140	BW	-9.461	0.161	-9.300	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5270	54	802.11n	-5.125	0.421	-5.125	11	Pass
5310	62	40MHz BW	-5.204	0.950	-5.204	11	Pass
5510	102	802.11n 40MHz BW	-11.488	0.950	-11.488	11	Pass
5590	118		-10.912	0.421	-10.912	11	Pass
5670	134		-11.956	0.683	-11.956	11	Pass

Service Port Ant.2
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11a	-3.328	0.531	-3.328	11	Pass
5300	60		-4.342	0.936	-4.342	11	Pass
5320	64		-4.595	1.015	-4.595	11	Pass
5500	100	802.11a	-8.638	0.222	-8.638	11	Pass
5600	120		-8.604	0.738	-8.604	11	Pass
5700	140		-10.292	0.936	-10.292	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11n	-3.729	0.161	-3.729	11	Pass
5300	60	20MHz	-4.822	0.969	-4.822	11	Pass
5320	64	BW	-4.511	1.082	-4.511	11	Pass
5500	100	802.11n	-9.209	0.735	-9.209	11	Pass
5600	120	20MHz	-9.052	0.896	-9.052	11	Pass
5700	140	BW	-10.570	1.082	-10.570	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5270	54	802.11n	-5.445	0.950	-5.445	11	Pass
5310	62	40MHz BW	-5.616	1.165	-5.616	11	Pass
5510	102	802.11n	-11.789	0.950	-11.789	11	Pass
5590	118	40MHz BW	-10.990	1.091	-10.990	11	Pass
5670	134	40MHz BW	-11.982	0.950	-11.982	11	Pass

Service Port Ant.3
■ TEST RESULTS
Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11a	-3.008	-3.008	-3.008	11	Pass
5300	60		-4.558	-4.558	-4.558	11	Pass
5320	64		-4.577	-4.577	-4.577	11	Pass
5500	100	802.11a	-8.816	-8.816	-8.816	11	Pass
5600	120		-8.473	-8.473	-8.473	11	Pass
5700	140		-9.713	-9.713	-9.713	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5260	52	802.11n	-3.269	0.161	-3.108	11	Pass
5300	60	20MHz	-4.769	0.969	-3.800	11	Pass
5320	64	BW	-4.545	0.969	-3.576	11	Pass
5500	100	802.11n	-8.617	1.082	-7.535	11	Pass
5600	120	20MHz	-8.811	1.082	-7.729	11	Pass
5700	140	BW	-10.477	1.082	-9.395	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result				
			Measured Power Density (dBm)	Duty Cycle Factor (dB)	Measured Power Density(dBm) + Duty Cycle Factor	Limit (dBm)	Pass/Fail
5270	54	802.11n	-4.897	0.421	-4.476	11	Pass
5310	62	40MHz BW	-5.261	1.091	-4.170	11	Pass
5510	102	802.11n 40MHz BW	-11.293	1.165	-10.128	11	Pass
5590	118		-10.550	0.950	-9.600	11	Pass
5670	134		-11.512	0.950	-10.562	11	Pass

Sum Data of Service Port Ant.1 and Ant.2

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5260	52	802.11a	-0.08	7.99	Pass
5300	60		-1.13	7.99	Pass
5320	64		-1.41	7.99	Pass
5500	100	802.11a	-5.40	7.99	Pass
5600	120		-5.21	7.99	Pass
5700	140		-6.70	7.99	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5260	52	802.11n 20MHz BW	-0.63	11	Pass
5300	60		-1.45	11	Pass
5320	64		-1.35	11	Pass
5500	100	802.11n 20MHz BW	-5.66	11	Pass
5600	120		-5.50	11	Pass
5700	140		-6.88	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5270	54	802.11n 40MHz BW	-2.27	11	Pass
5310	62		-2.39	11	Pass
5510	102	802.11n 40MHz BW	-8.63	11	Pass
5590	118		-7.94	11	Pass
5670	134		-8.96	11	Pass

Note :

1. Limit is 7.99 dBm. Because directional antenna gain is 9.01 dBi for 802.11a.

2. Sample Calculation

23.98 dBm-(9.01 dB - 6 dB)=7.99 dBm

Sum Data of Service Port Ant.1, Ant.2 and Ant.3

■ TEST RESULTS

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5260	52	802.11a	1.71	6.23	Pass
5300	60		0.49	6.23	Pass
5320	64		0.30	6.23	Pass
5500	100	802.11a	-3.77	6.23	Pass
5600	120		-3.53	6.23	Pass
5700	140		-4.94	6.23	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5260	52	802.11n 20MHz BW	1.32	11	Pass
5300	60		0.54	11	Pass
5320	64		0.69	11	Pass
5500	100	802.11n 20MHz BW	-3.49	11	Pass
5600	120		-3.46	11	Pass
5700	140		-4.95	11	Pass

Conducted Power Density Measurements

Frequency (MHz)	Channel No.	Mode	Test Result		
			Power Density (dBm)	Limit (dBm)	Pass/Fail
5270	54	802.11n 40MHz BW	-0.23	11	Pass
5310	62		-0.18	11	Pass
5510	102	802.11n 40MHz BW	-6.30	11	Pass
5590	118		-5.68	11	Pass
5670	134		-6.68	11	Pass

Note :

1. Limit is 6.23 dBm. Because directional antenna gain is 10.77 dBi for 802.11a.

2. Sample Calculation

$$23.98 \text{ dBm} - (10.77 \text{ dB} - 6 \text{ dB}) = 6.23 \text{ dBm}$$

Monitoring Port Ant.1

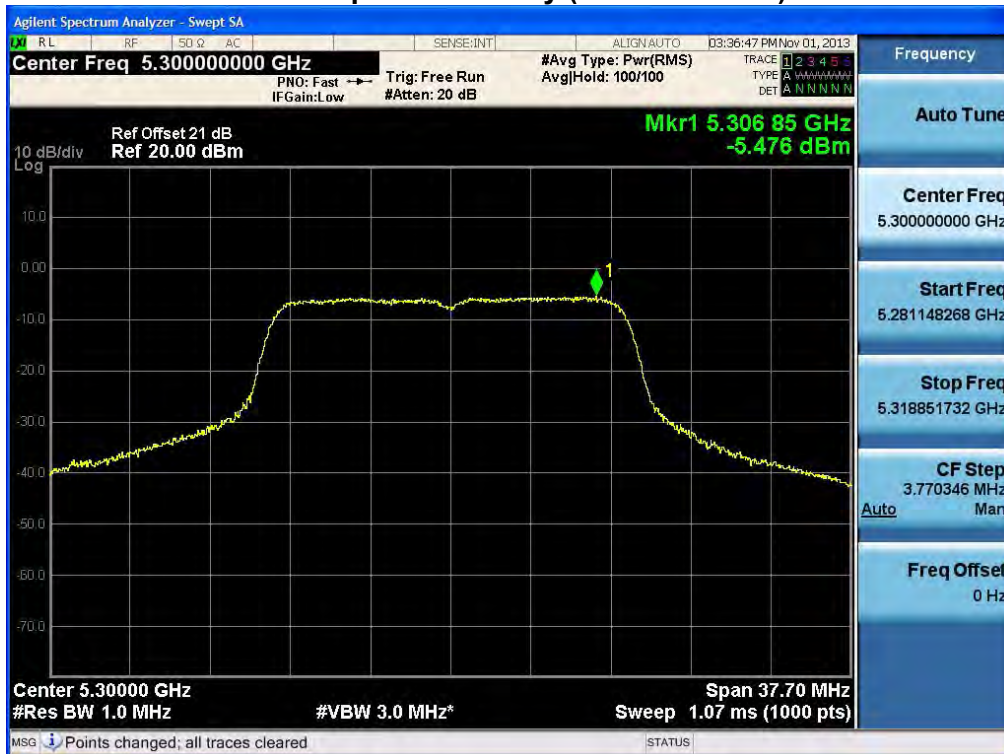
RESULT PLOTS

20 MHz BW

Power Spectral Density (802.11a-CH 52)



Power Spectral Density (802.11a-CH 60)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR02	Date of Issue: November 04, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

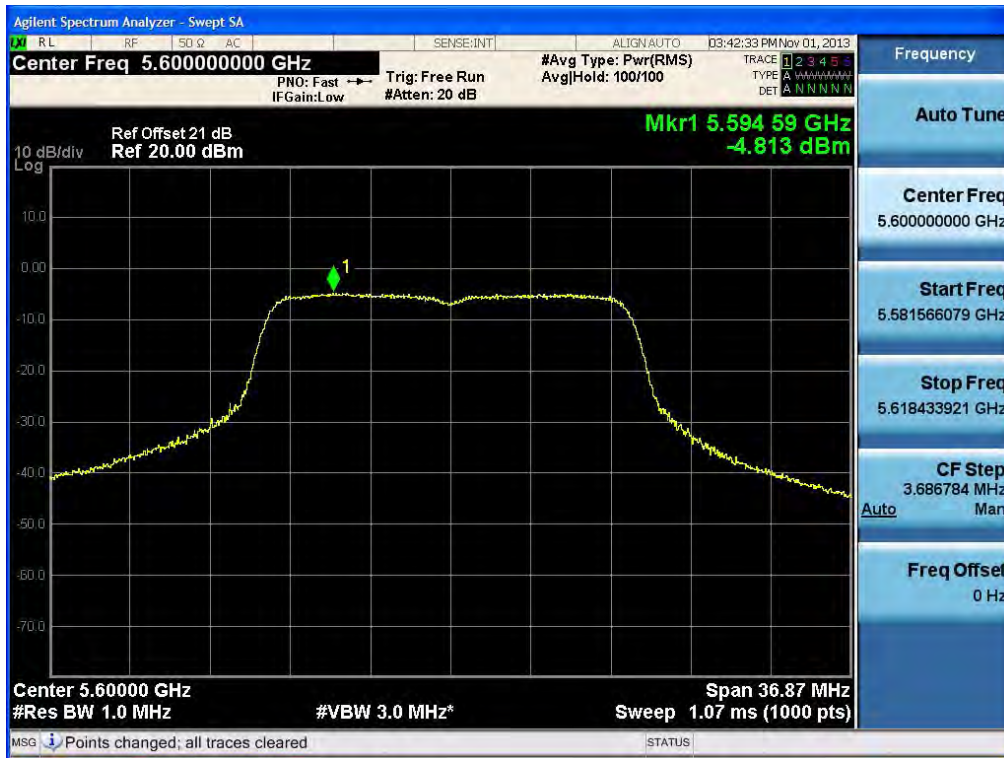
Power Spectral Density (802.11a-CH 64)



Power Spectral Density (802.11a-CH 100)



Power Spectral Density (802.11a-CH 120)



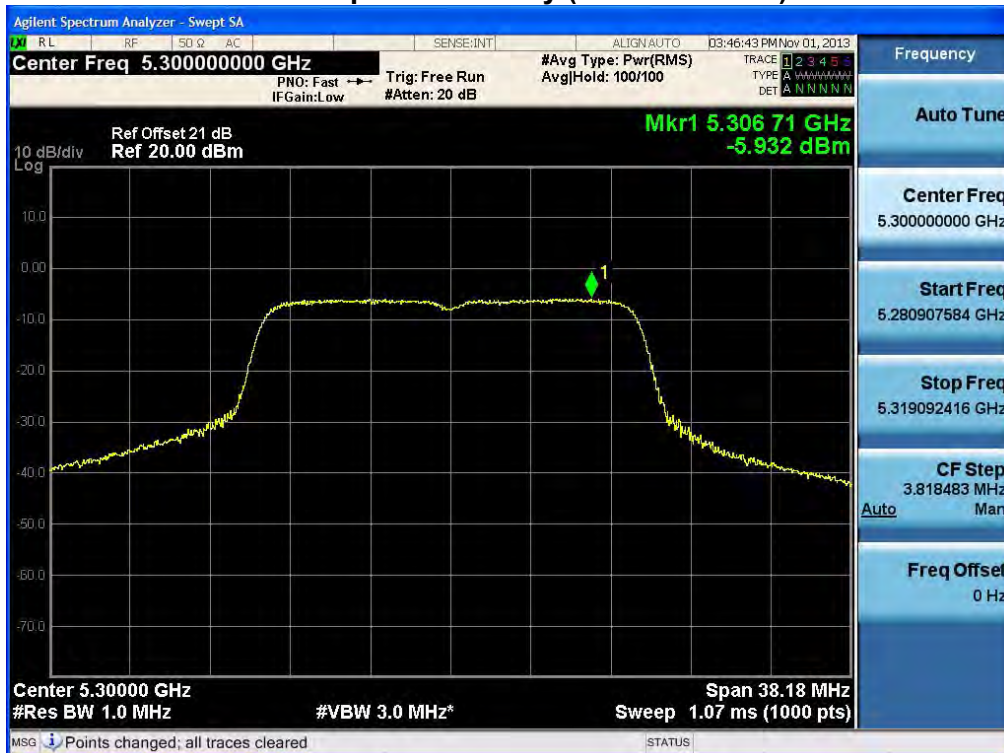
Power Spectral Density (802.11a-CH 140)



Power Spectral Density (802.11n-CH 52)



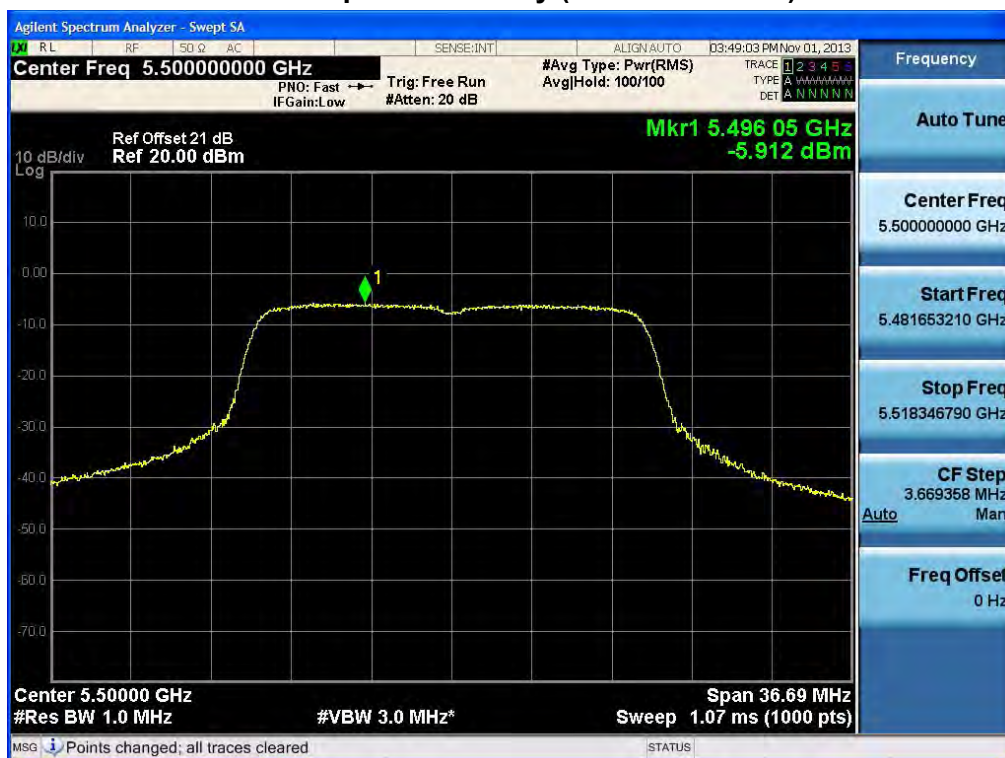
Power Spectral Density (802.11n-CH 60)



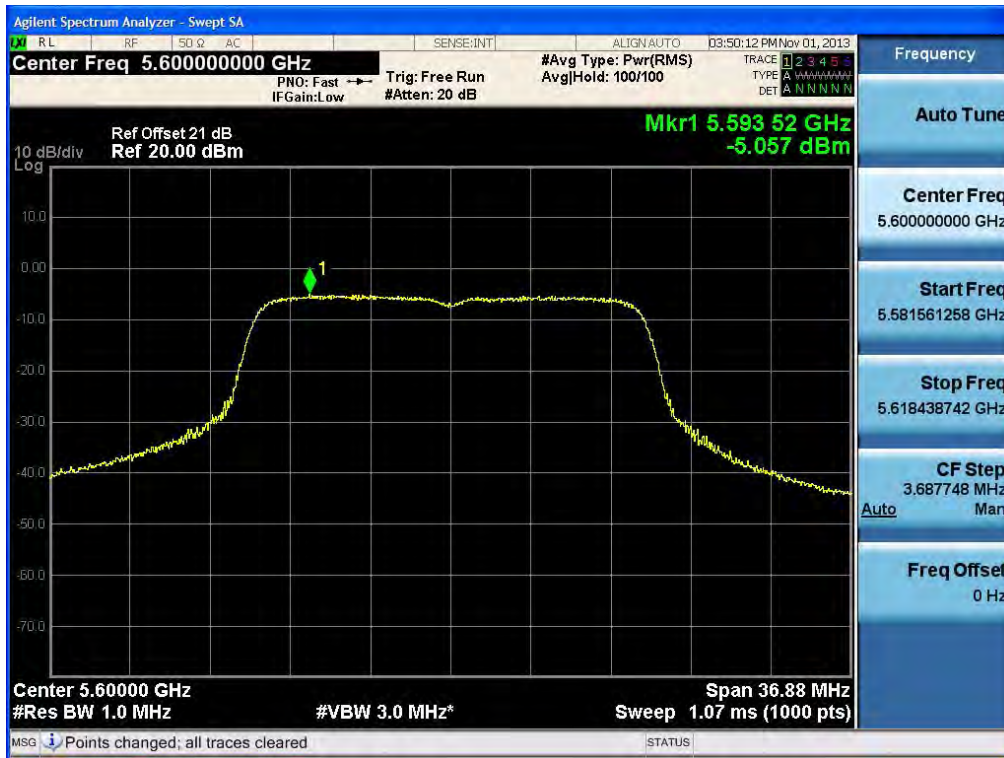
Power Spectral Density (802.11n-CH 64)



Power Spectral Density (802.11n-CH 100)



Power Spectral Density (802.11n-CH 120)



Power Spectral Density (802.11n-CH 140)



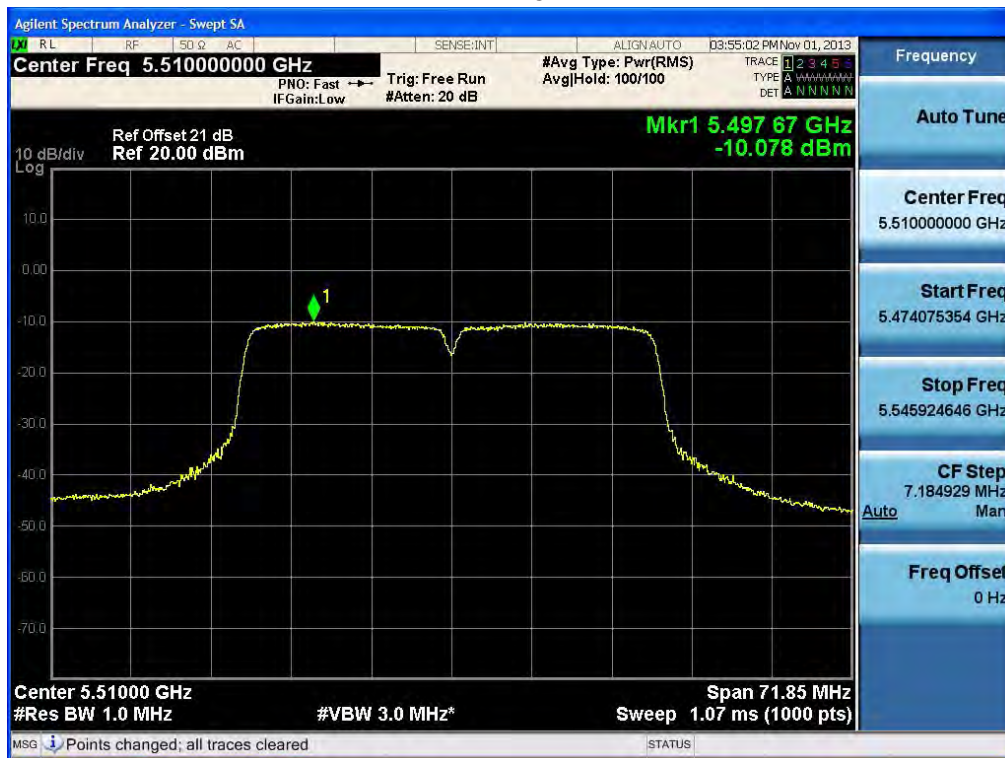
Power Spectral Density (802.11n-CH 54)



Power Spectral Density (802.11n-CH 62)



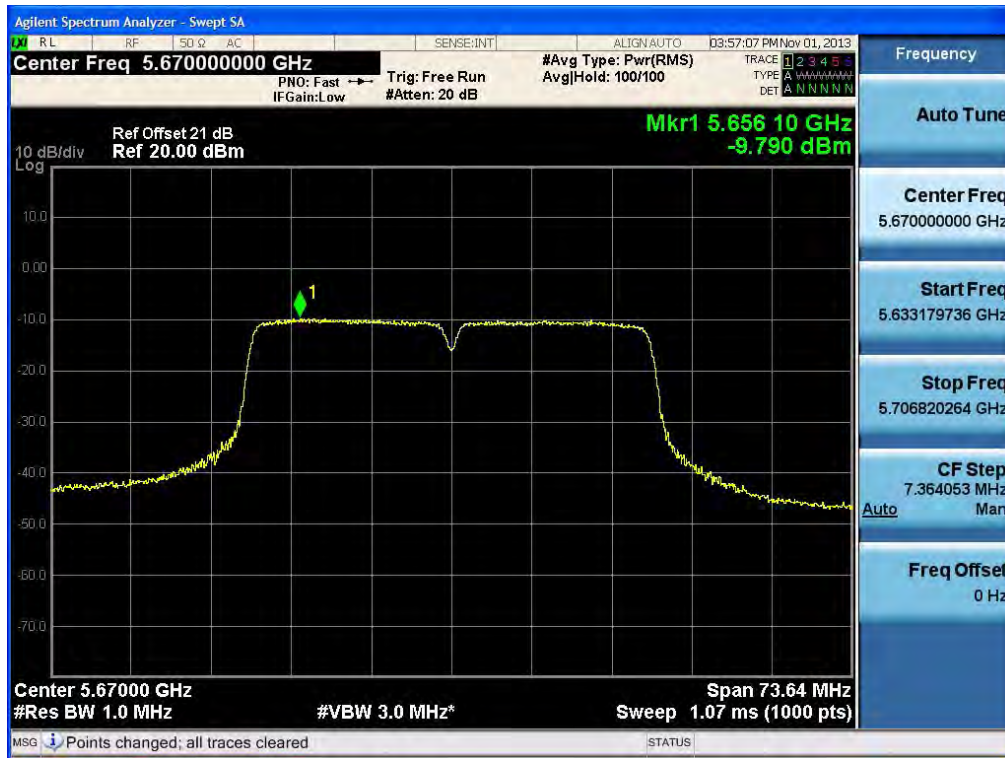
Power Spectral Density (802.11n-CH 102)



Power Spectral Density (802.11n-CH 118)



Power Spectral Density (802.11n-CH 134)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR02	Date of Issue: November 04, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Monitoring Port Ant.2

RESULT PLOTS

20 MHz BW

Power Spectral Density (802.11a-CH 52)

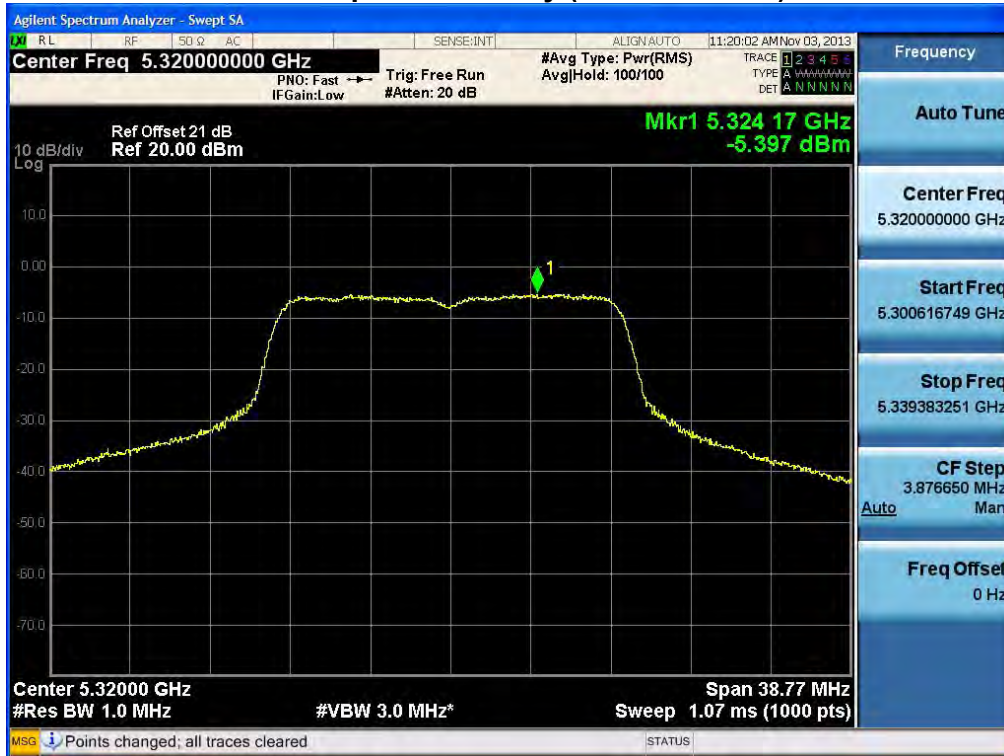


Power Spectral Density (802.11a-CH 60)



FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR02	Date of Issue: November 04, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Power Spectral Density (802.11a-CH 64)



Power Spectral Density (802.11a-CH 100)



Power Spectral Density (802.11a-CH 120)



Power Spectral Density (802.11a-CH 140)



Power Spectral Density (802.11n-CH 52)



Power Spectral Density (802.11n-CH 60)



Power Spectral Density (802.11n-CH 64)



Power Spectral Density (802.11n-CH 100)



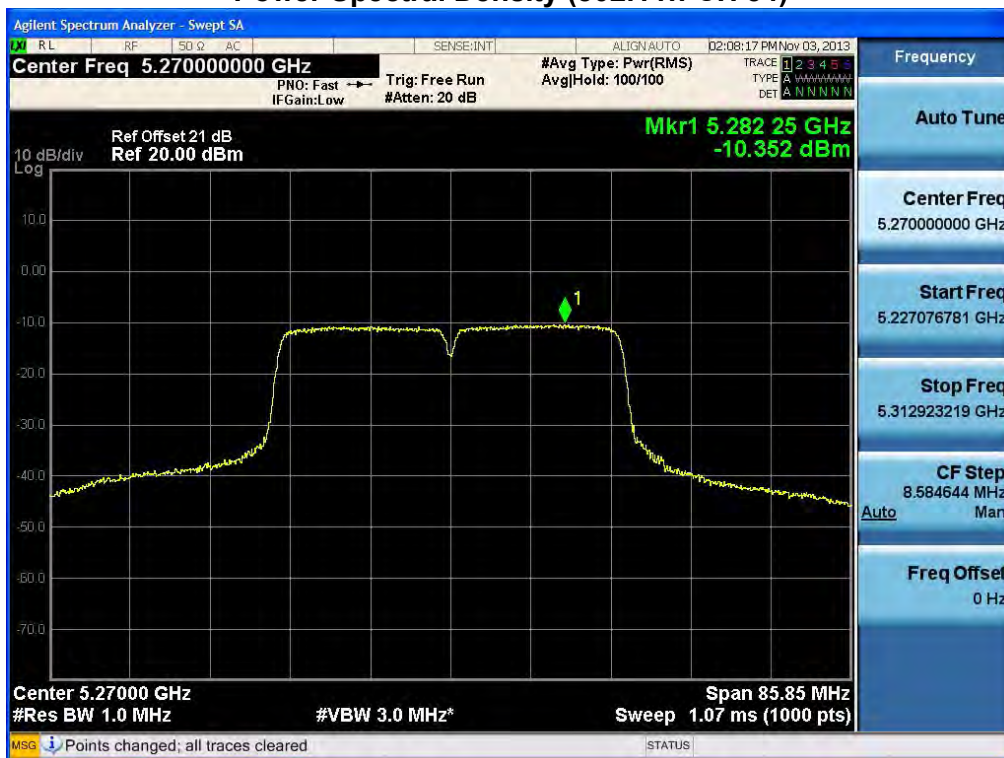
Power Spectral Density (802.11n-CH 120)



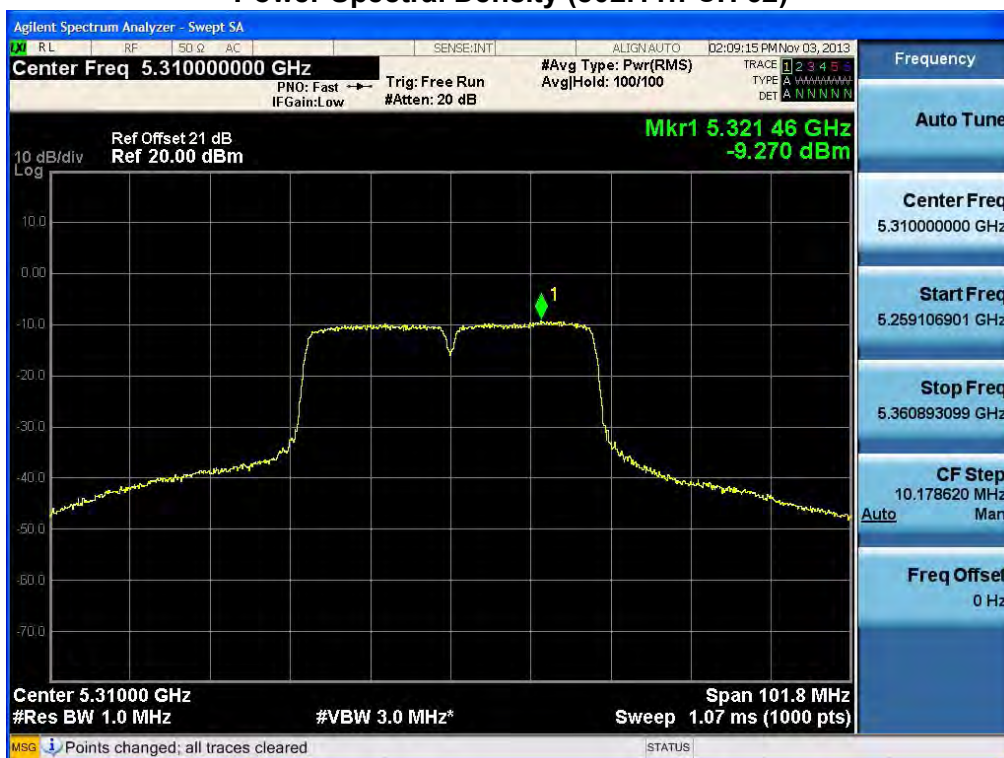
Power Spectral Density (802.11n-CH 140)



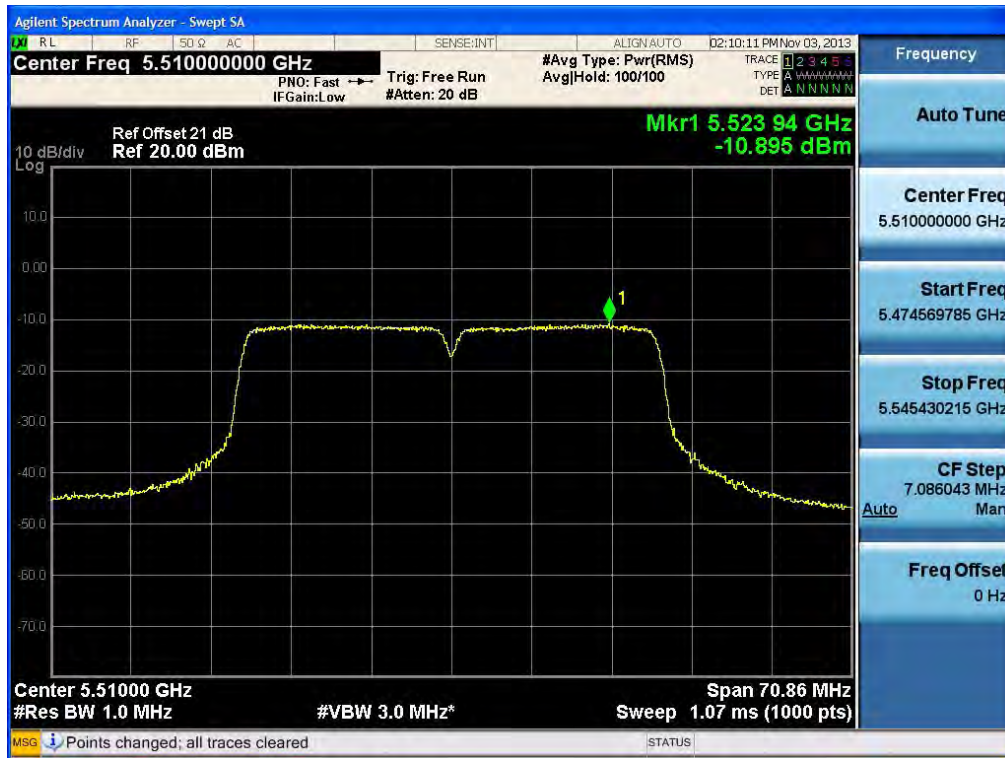
Power Spectral Density (802.11n-CH 54)



Power Spectral Density (802.11n-CH 62)



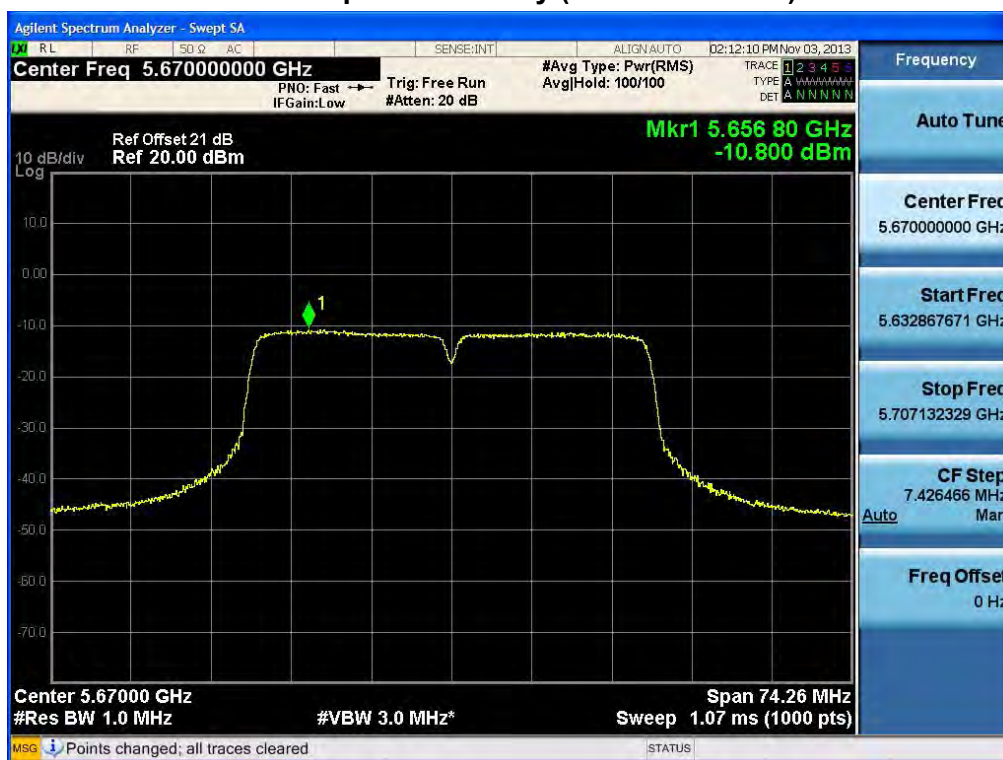
Power Spectral Density (802.11n-CH 102)



Power Spectral Density (802.11n-CH 118)



Power Spectral Density (802.11n-CH 134)



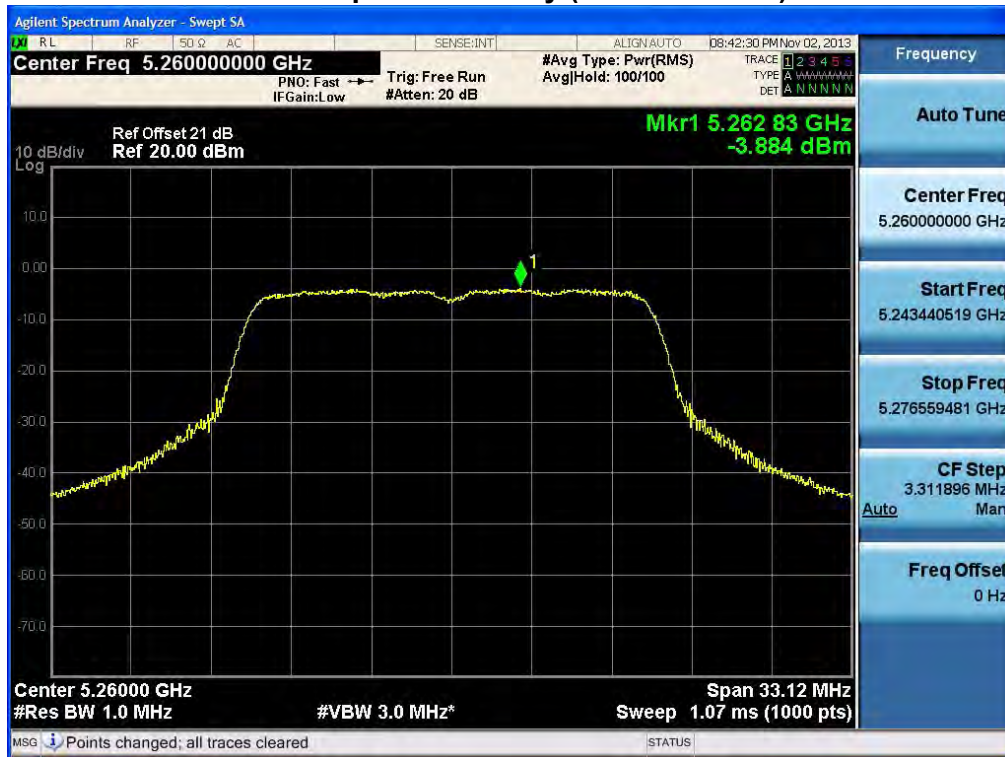
FCC PT.15.407 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No. HCTR1311FR02	Date of Issue: November 04, 2013	EUT Type: WLAN Access Point	FCC ID: A3LWEA303I

Service Port Ant.1

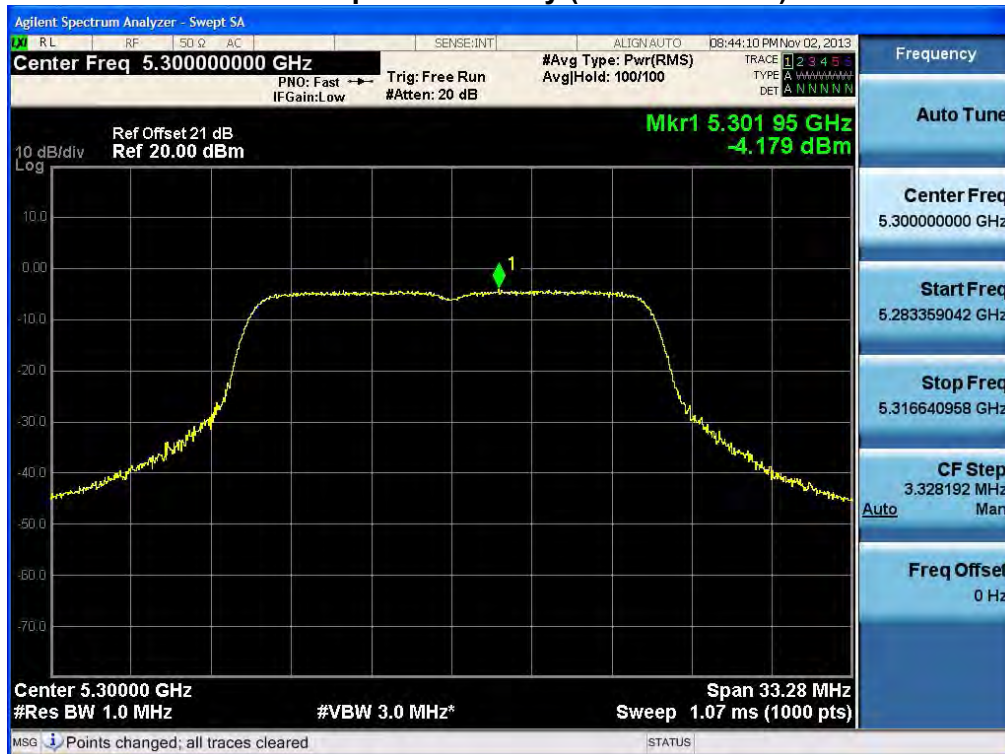
RESULT PLOTS

20 MHz BW

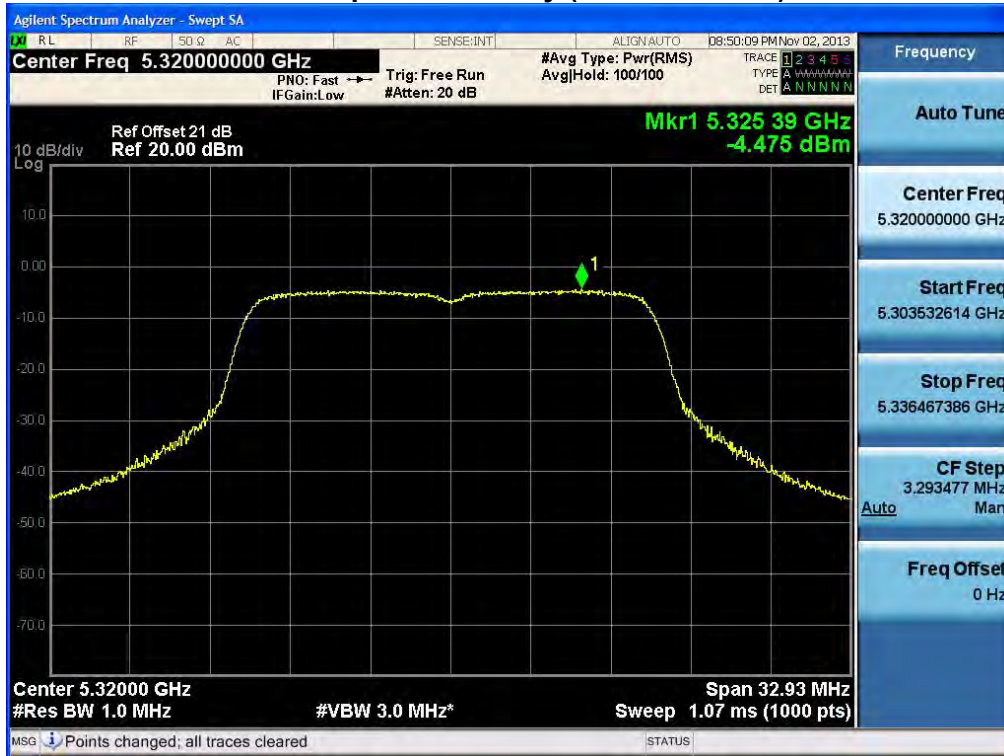
Power Spectral Density (802.11a-CH 52)



Power Spectral Density (802.11a-CH 60)



Power Spectral Density (802.11a-CH 64)



Power Spectral Density (802.11a-CH 100)



Power Spectral Density (802.11a-CH 120)



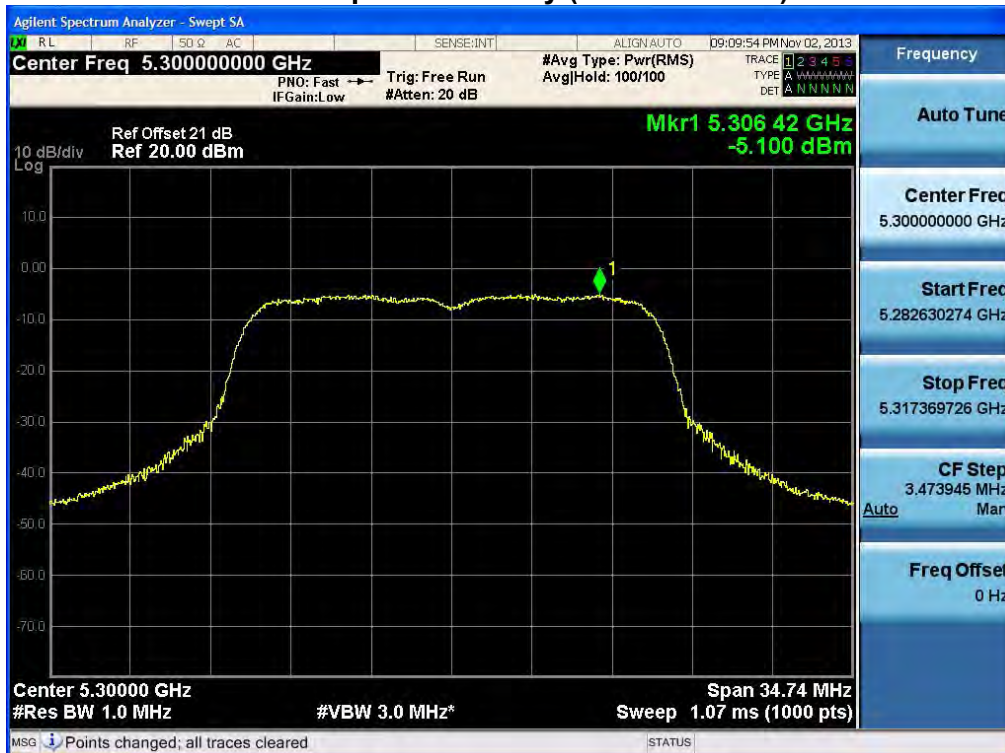
Power Spectral Density (802.11a-CH 140)



Power Spectral Density (802.11n-CH 52)



Power Spectral Density (802.11n-CH 60)



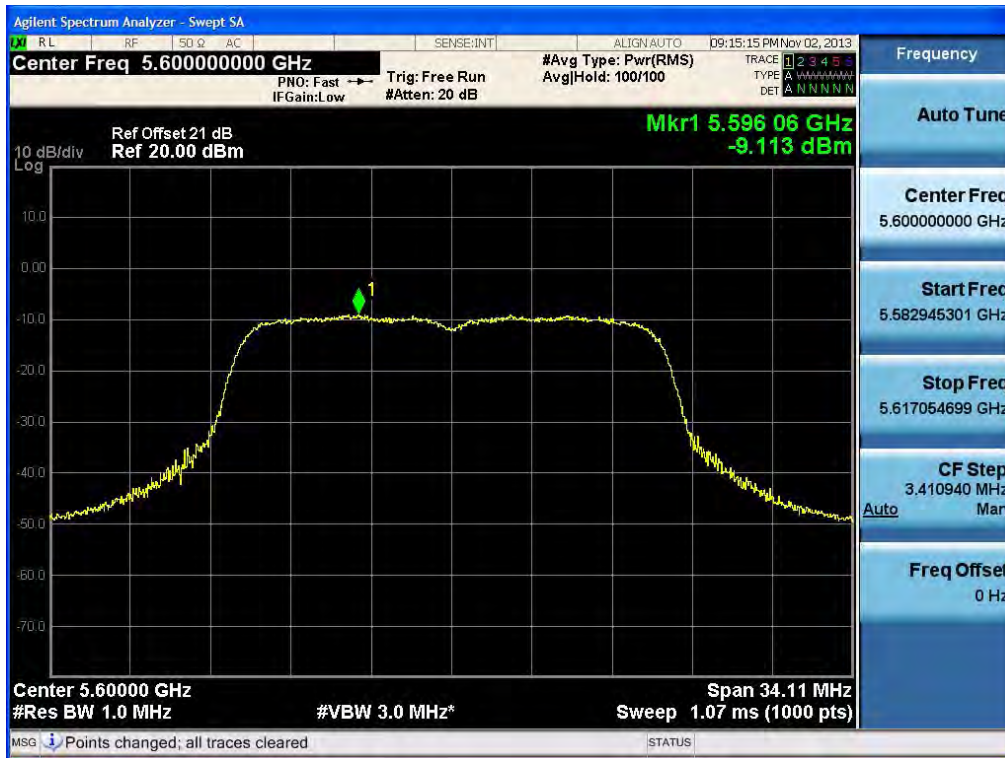
Power Spectral Density (802.11n-CH 64)



Power Spectral Density (802.11n-CH 100)



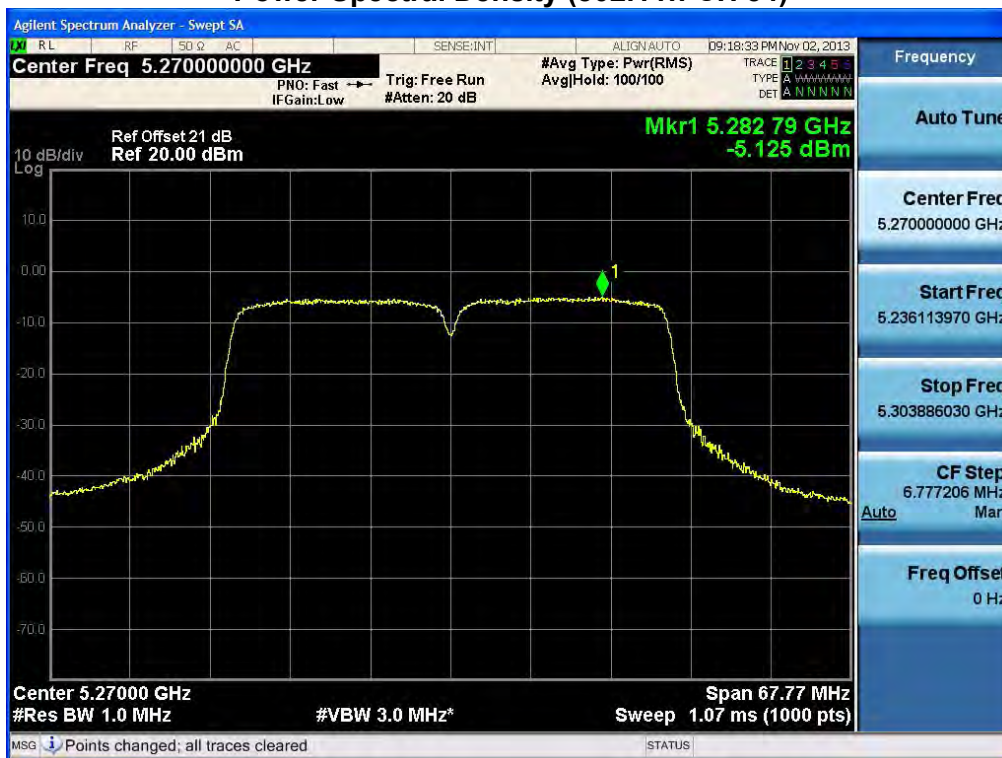
Power Spectral Density (802.11n-CH 120)



Power Spectral Density (802.11n-CH 140)



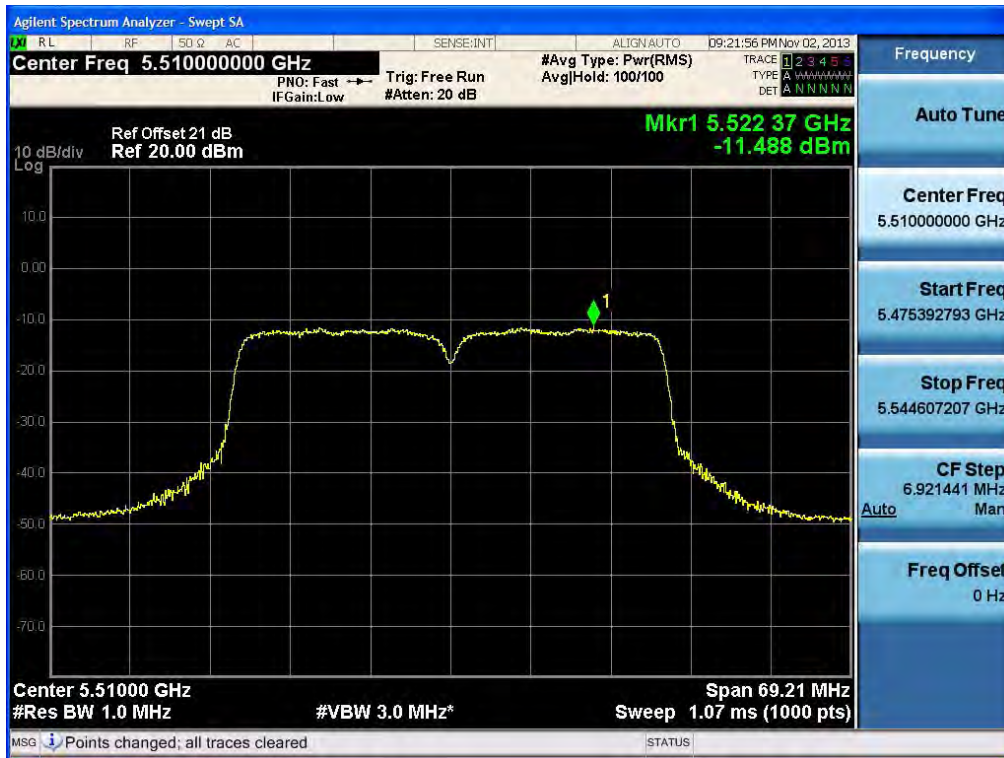
Power Spectral Density (802.11n-CH 54)



Power Spectral Density (802.11n-CH 62)



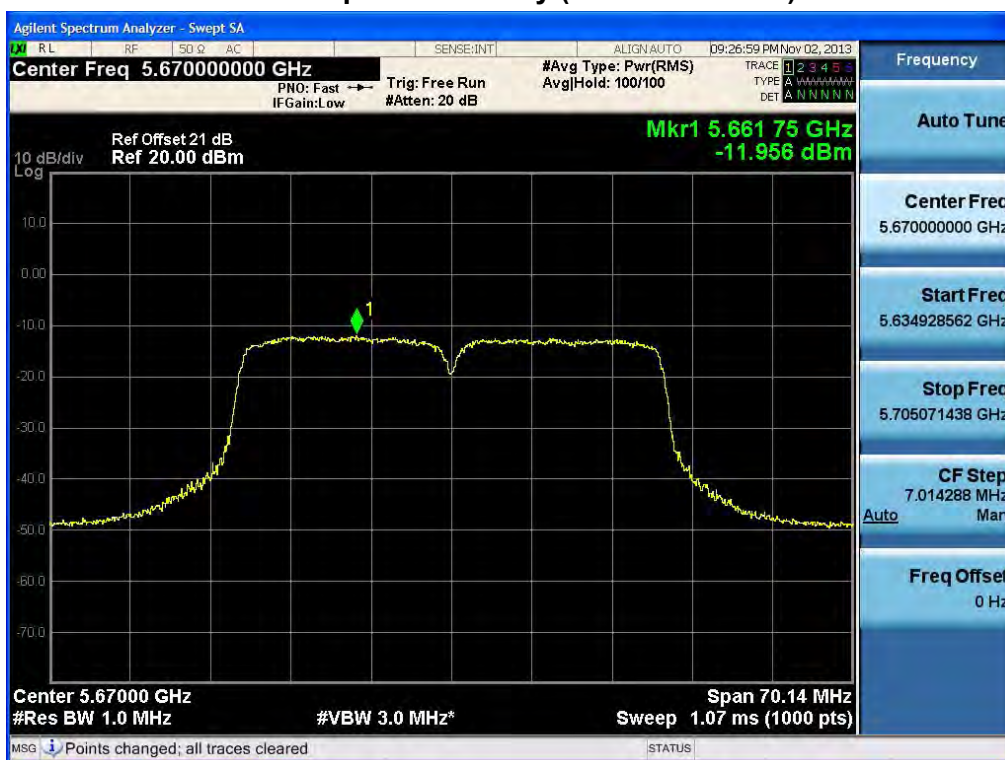
Power Spectral Density (802.11n-CH 102)



Power Spectral Density (802.11n-CH 118)



Power Spectral Density (802.11n-CH 134)



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Service Port Ant.2

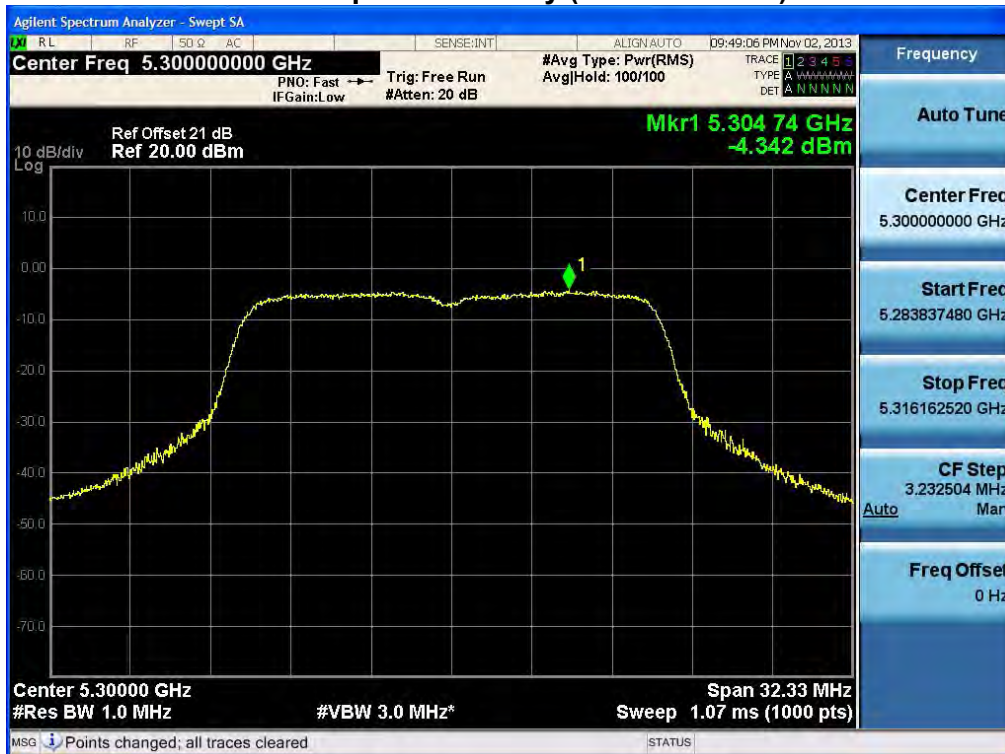
RESULT PLOTS

20 MHz BW

Power Spectral Density (802.11a-CH 52)



Power Spectral Density (802.11a-CH 60)



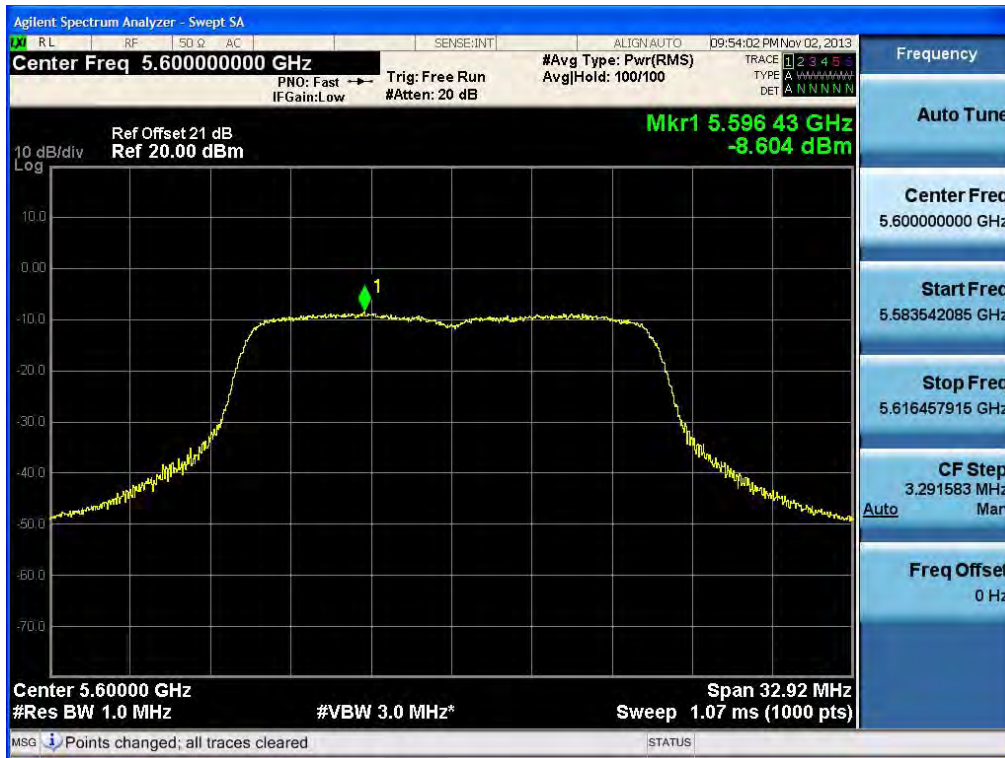
Power Spectral Density (802.11a-CH 64)



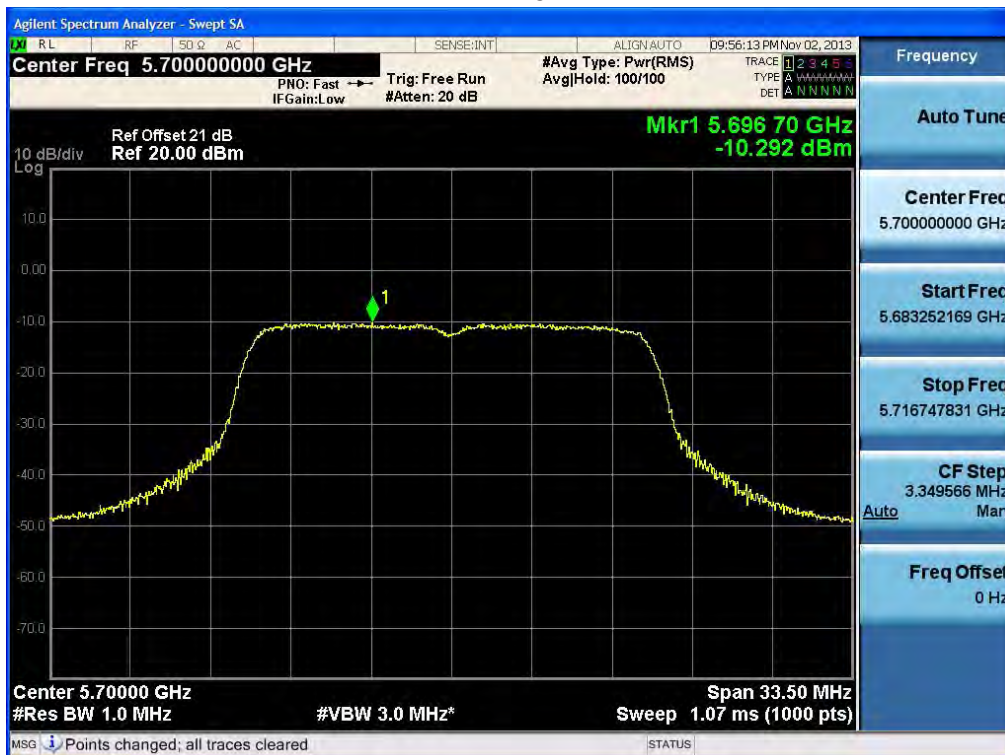
Power Spectral Density (802.11a-CH 100)



Power Spectral Density (802.11a-CH 120)



Power Spectral Density (802.11a-CH 140)

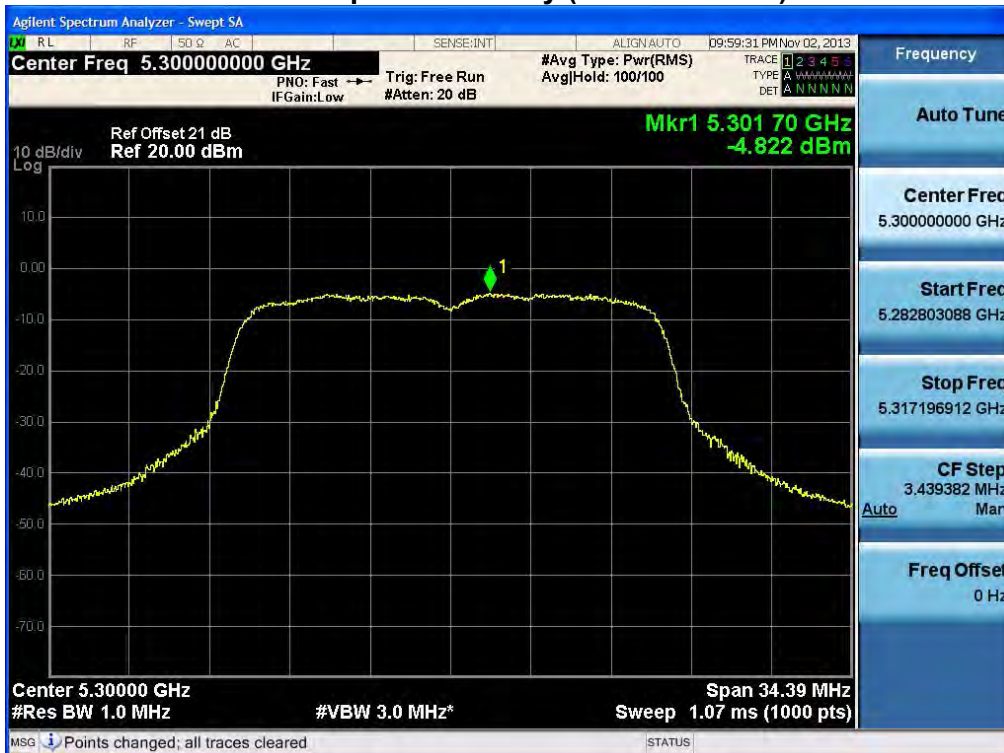


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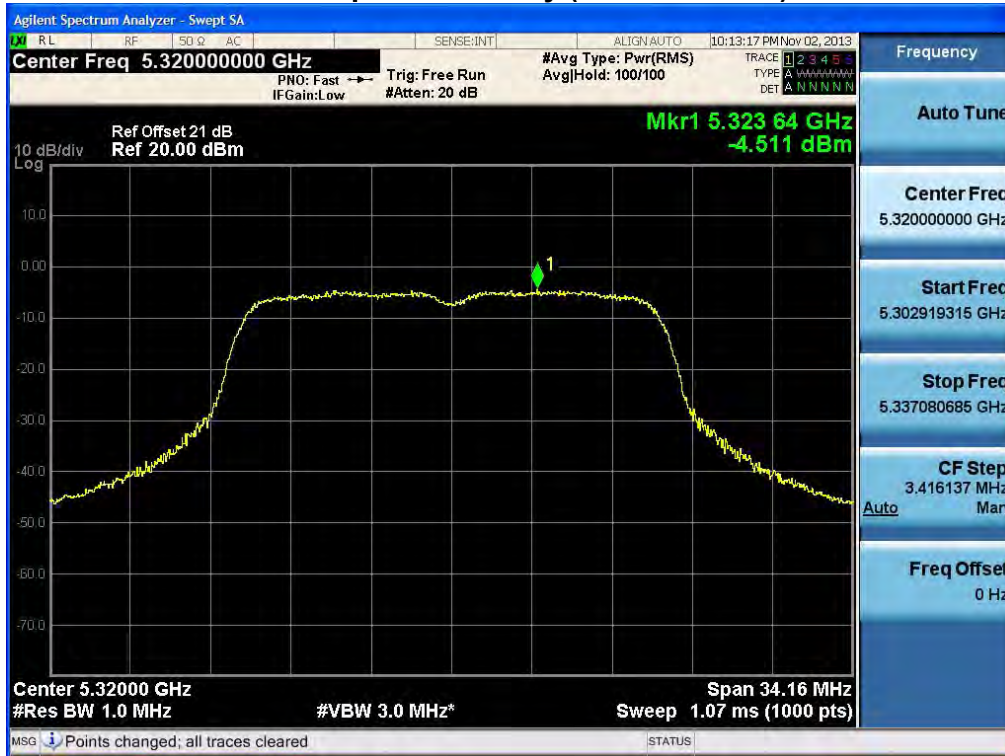
Power Spectral Density (802.11n-CH 52)



Power Spectral Density (802.11n-CH 60)



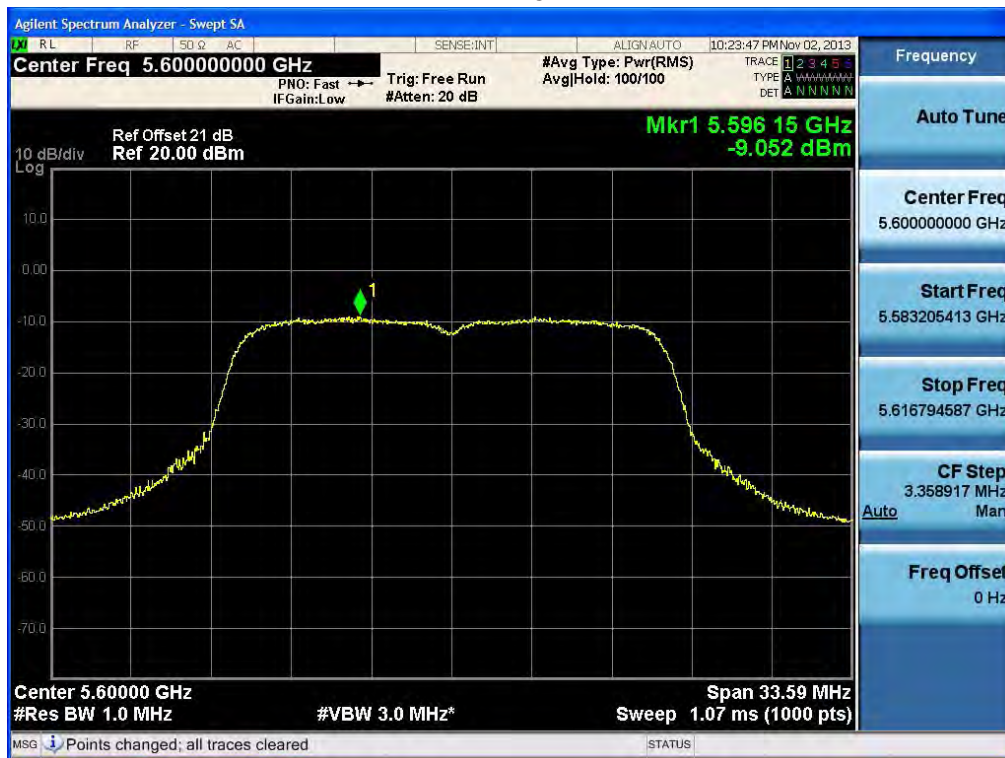
Power Spectral Density (802.11n-CH 64)



Power Spectral Density (802.11n-CH 100)



Power Spectral Density (802.11n-CH 120)



Power Spectral Density (802.11n-CH 140)



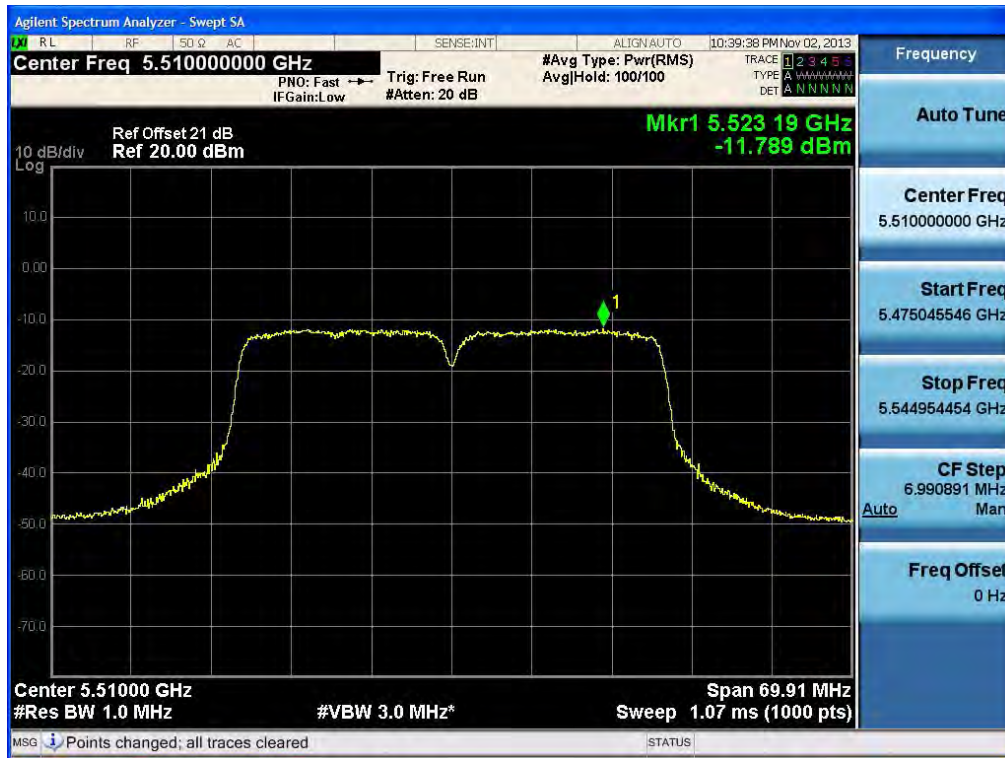
Power Spectral Density (802.11n-CH 54)



Power Spectral Density (802.11n-CH 62)



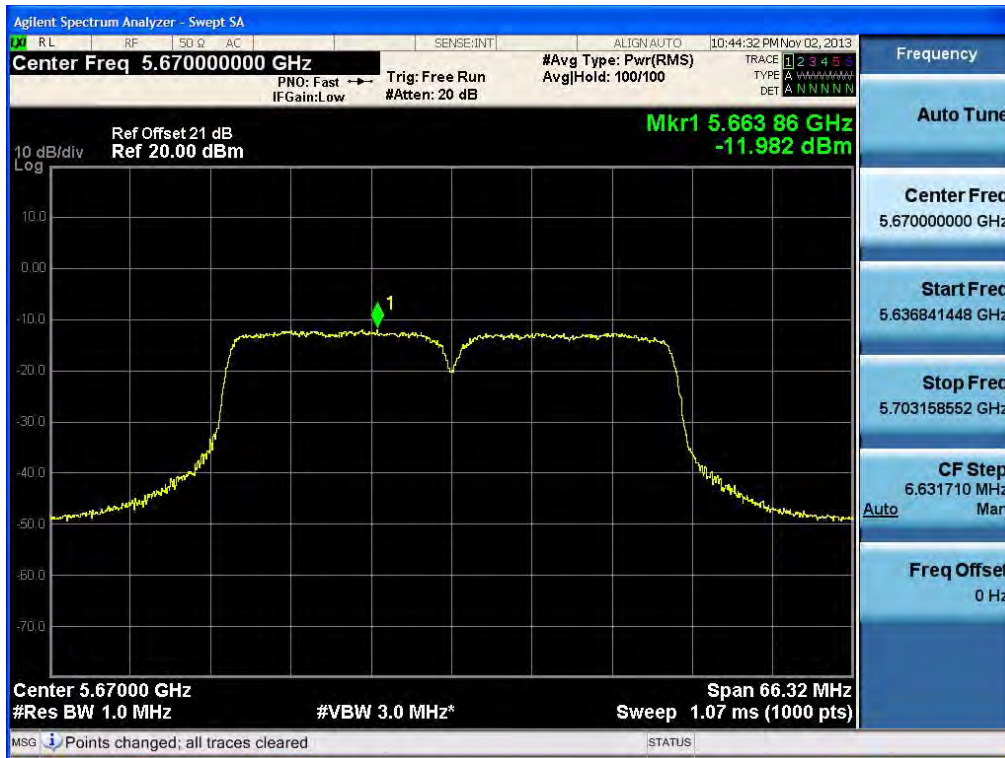
Power Spectral Density (802.11n-CH 102)



Power Spectral Density (802.11n-CH 118)



Power Spectral Density (802.11n-CH 134)



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Service Port Ant.3

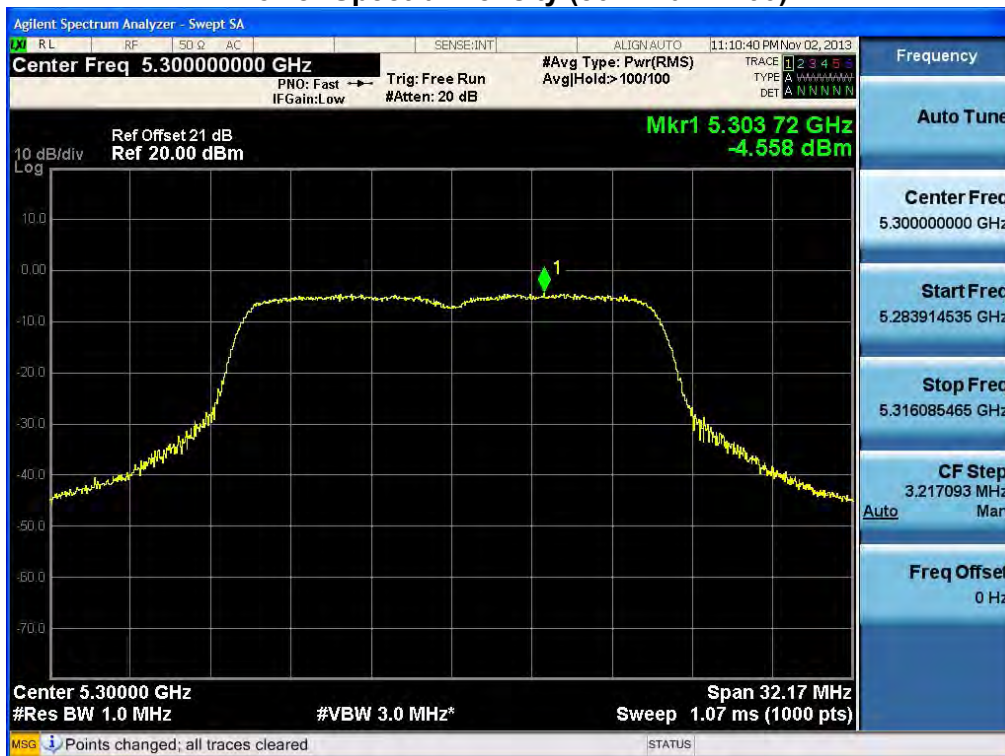
RESULT PLOTS

20 MHz BW

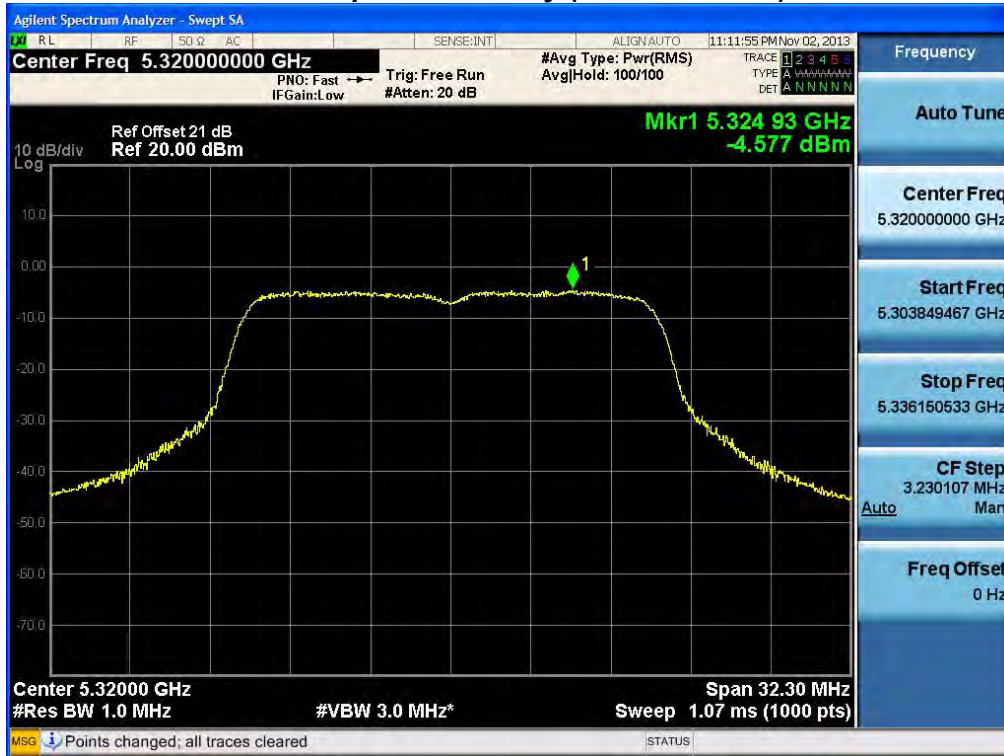
Power Spectral Density (802.11a-CH 52)



Power Spectral Density (802.11a-CH 60)



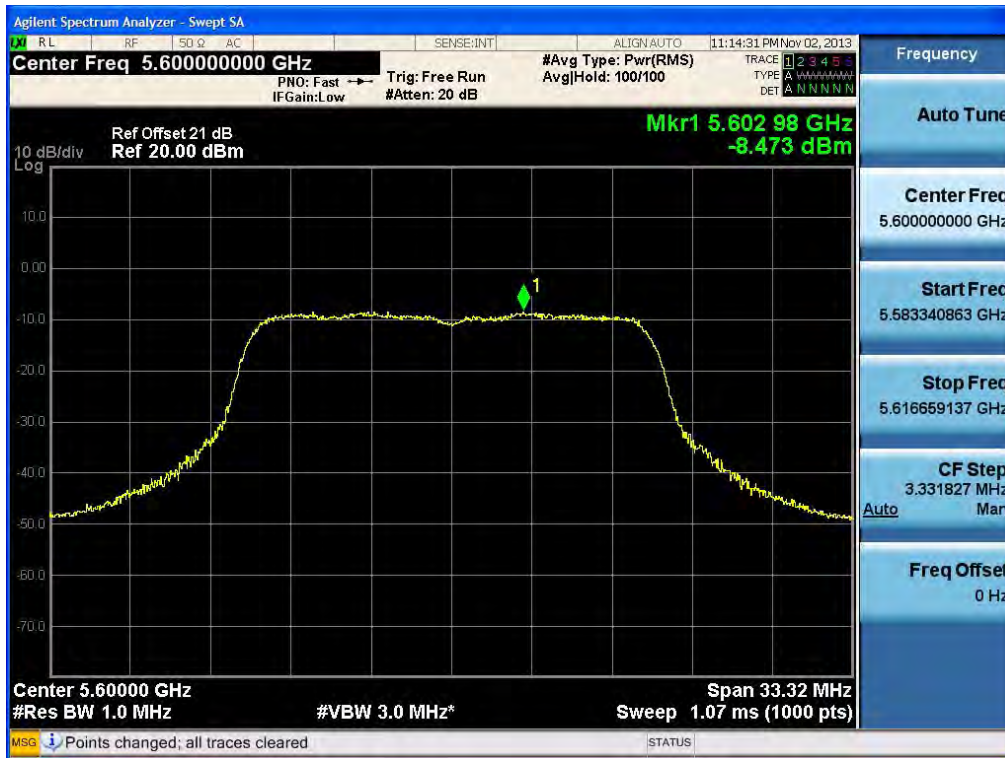
Power Spectral Density (802.11a-CH 64)



Power Spectral Density (802.11a-CH 100)



Power Spectral Density (802.11a-CH 120)

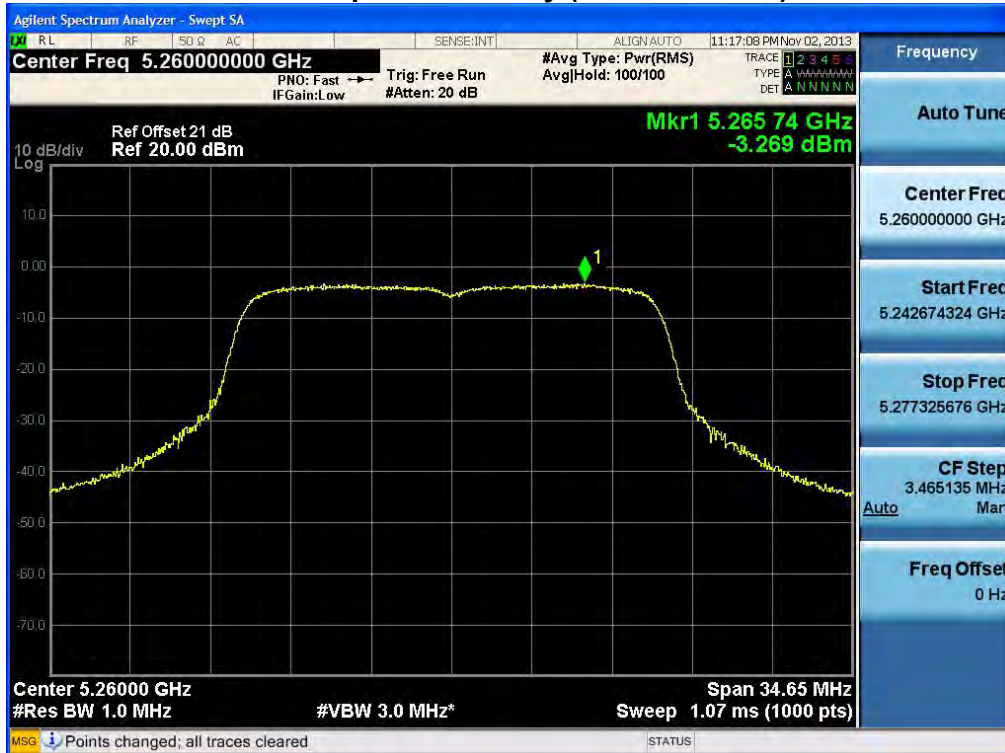


Power Spectral Density (802.11a-CH 140)



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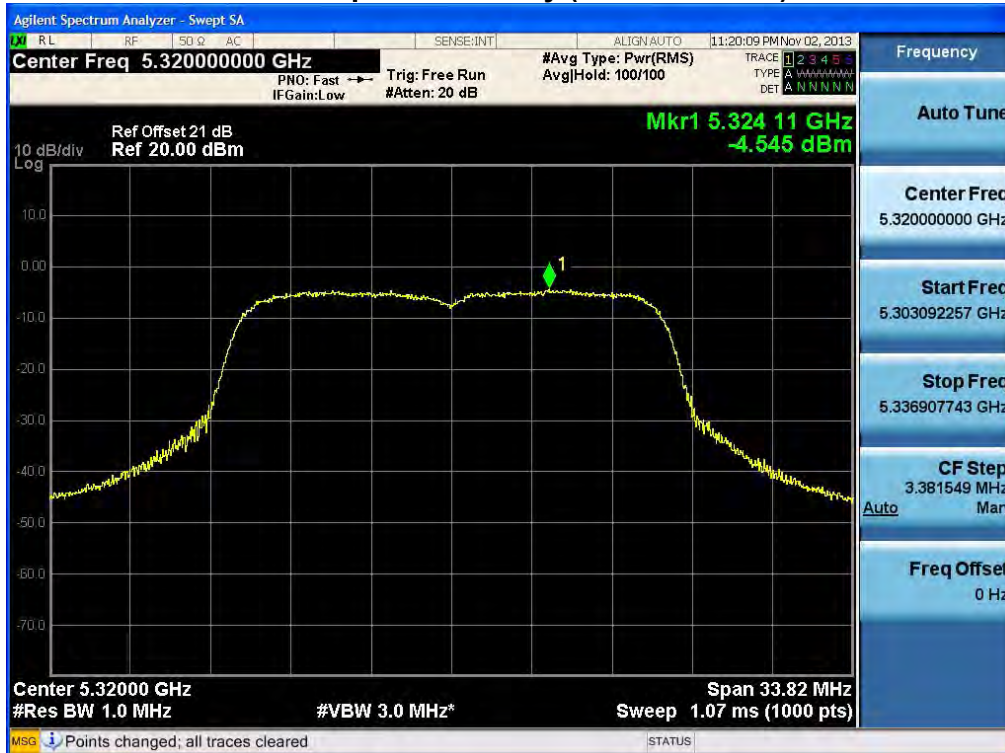
Power Spectral Density (802.11n-CH 52)



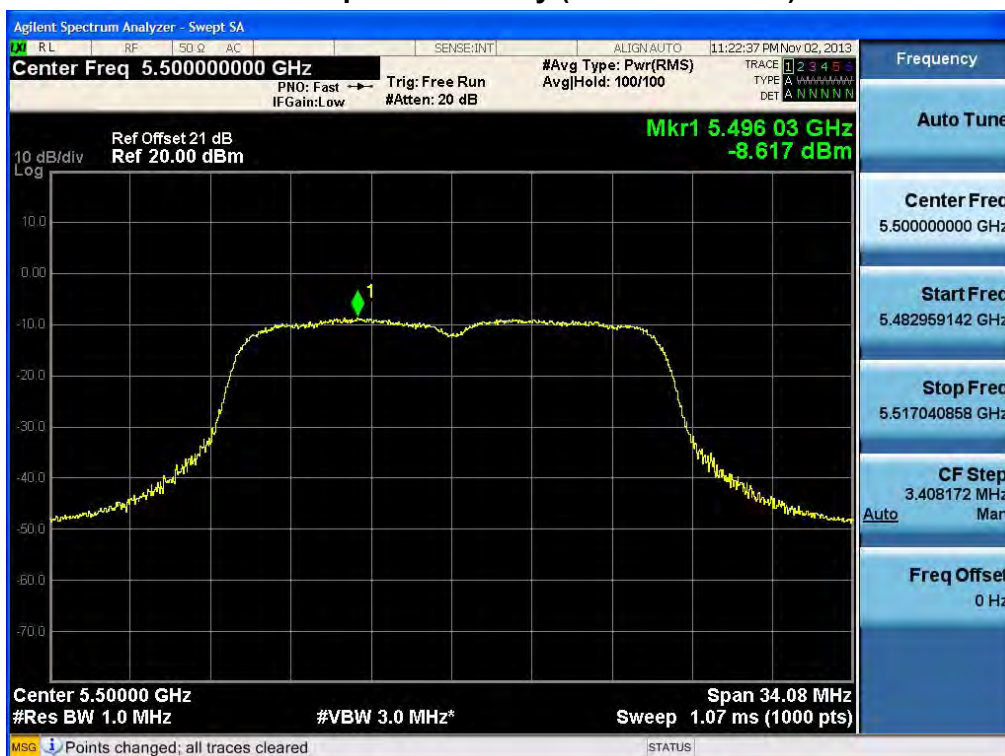
Power Spectral Density (802.11n-CH 60)



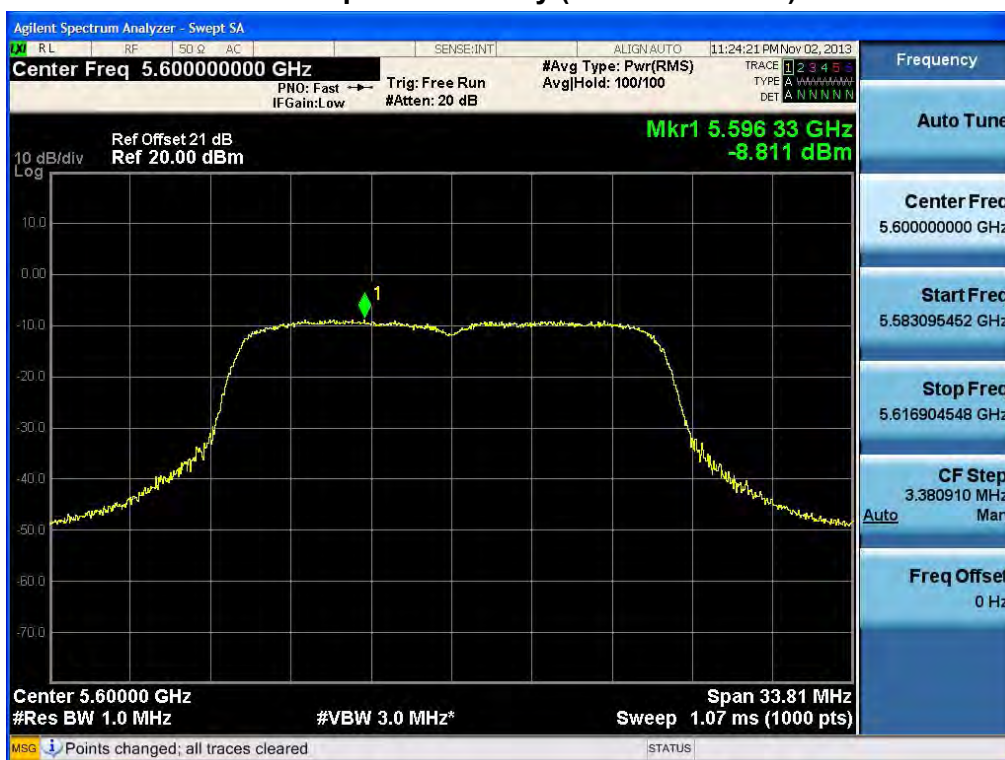
Power Spectral Density (802.11n-CH 64)



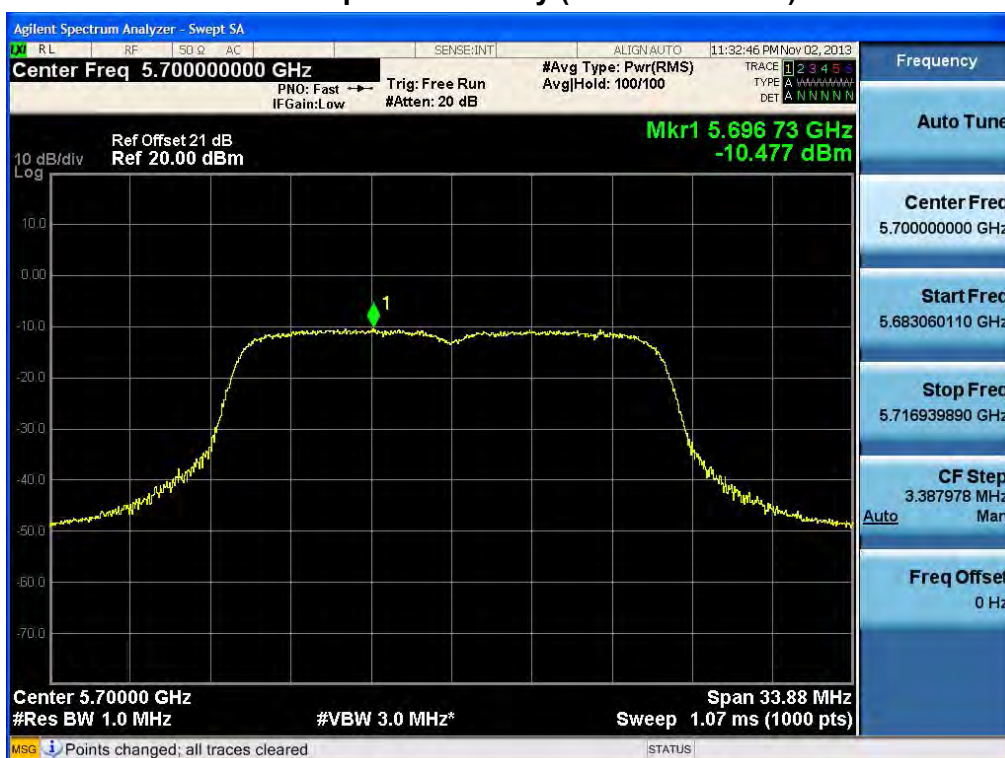
Power Spectral Density (802.11n-CH 100)



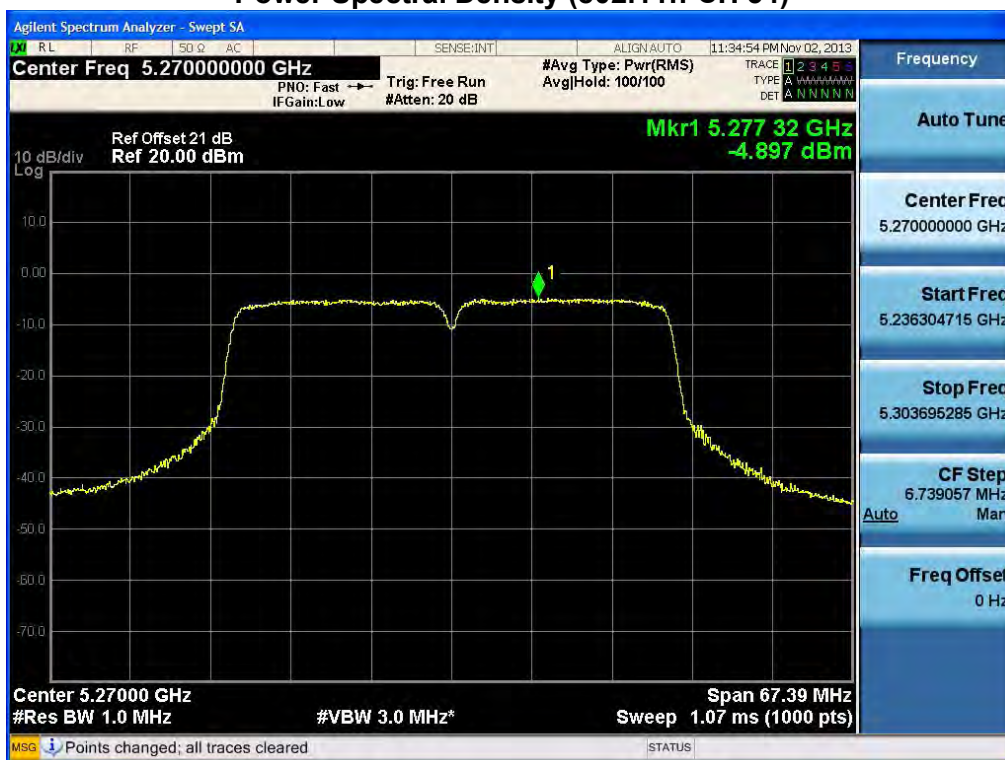
Power Spectral Density (802.11n-CH 120)



Power Spectral Density (802.11n-CH 140)



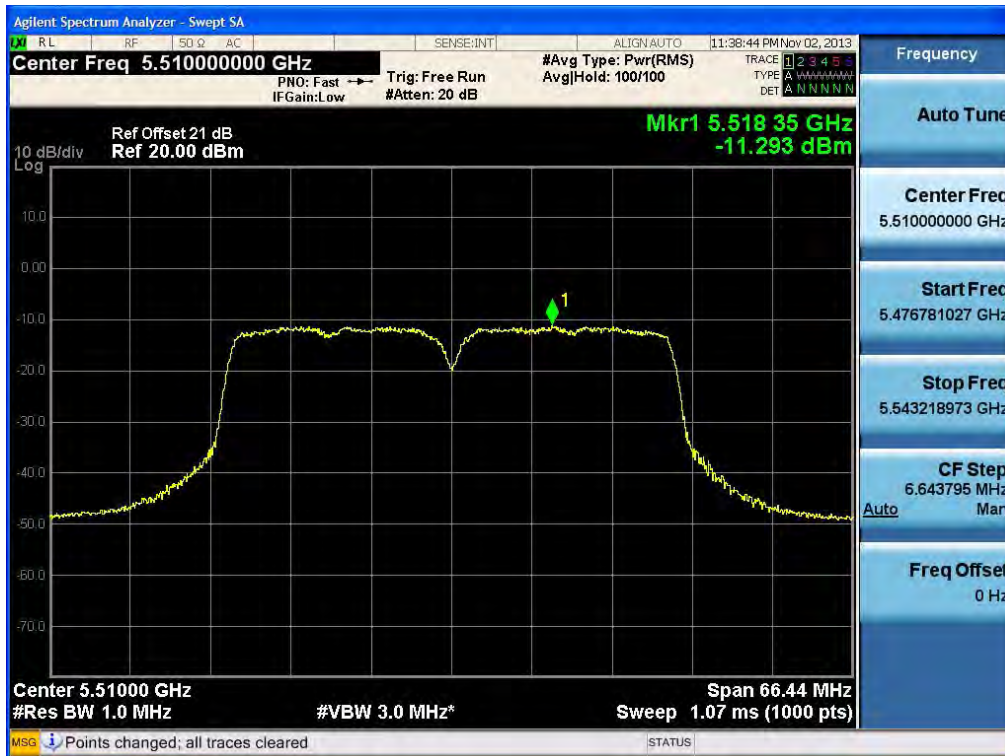
Power Spectral Density (802.11n-CH 54)



Power Spectral Density (802.11n-CH 62)



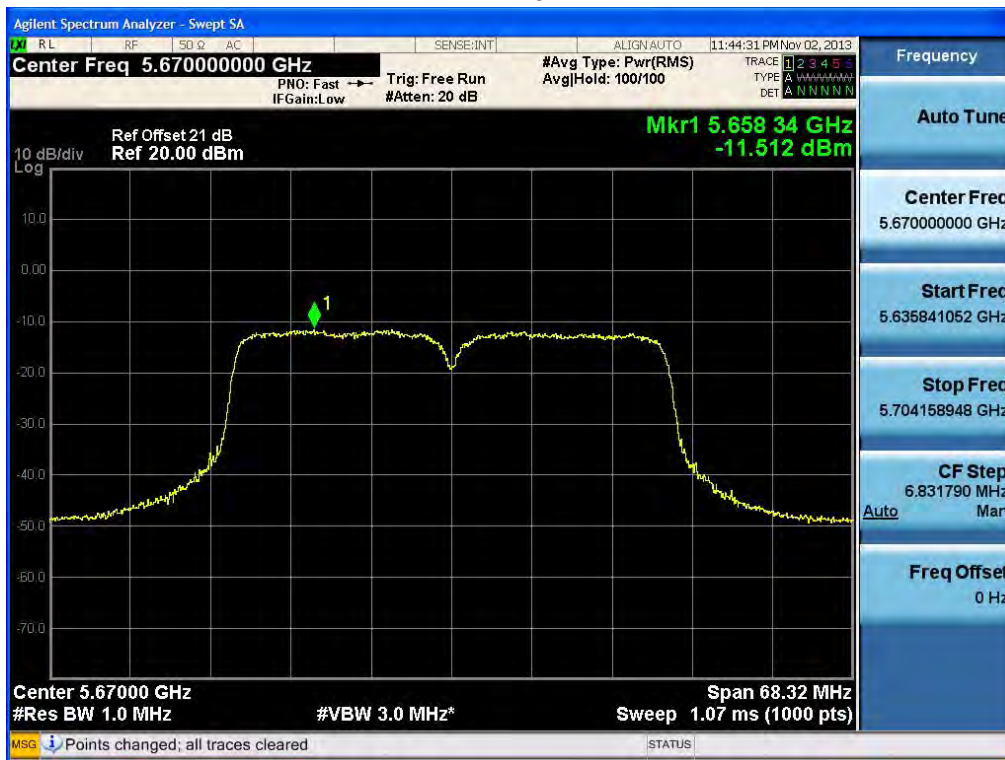
Power Spectral Density (802.11n-CH 102)



Power Spectral Density (802.11n-CH 118)



Power Spectral Density (802.11n-CH 134)



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