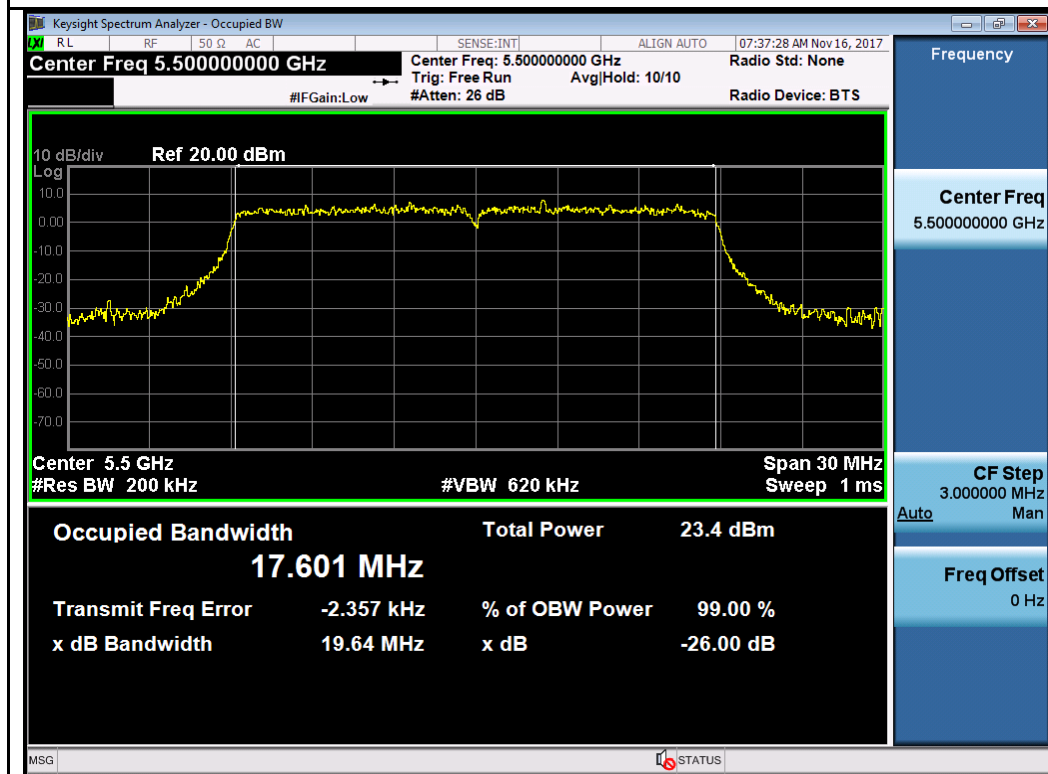
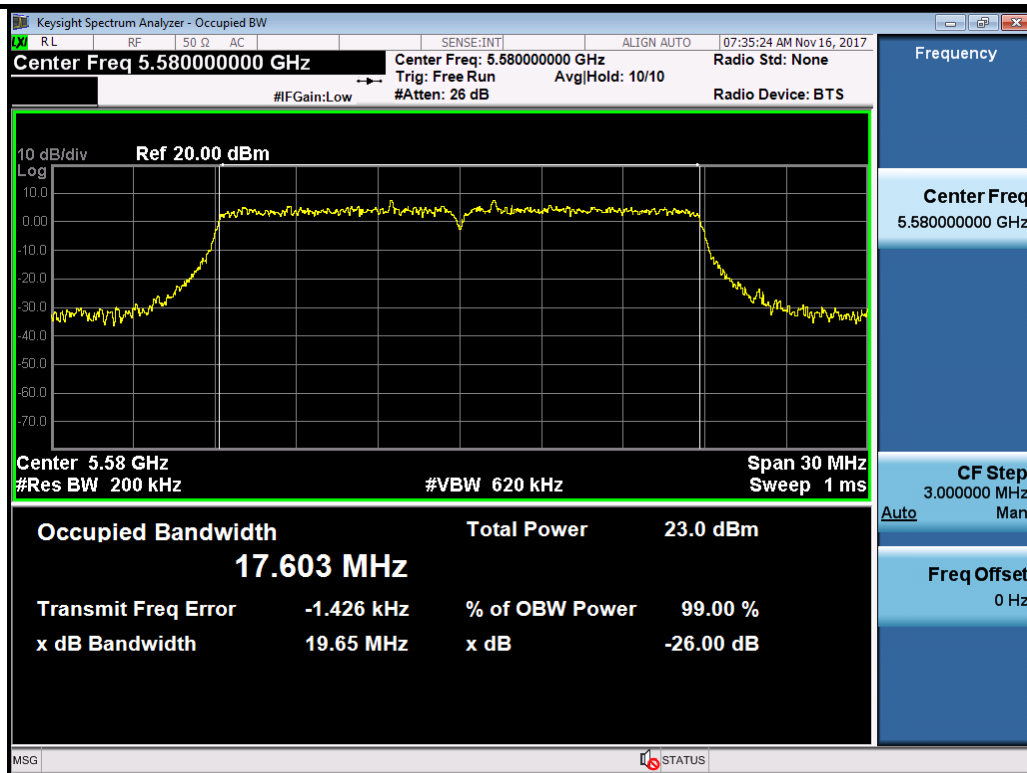


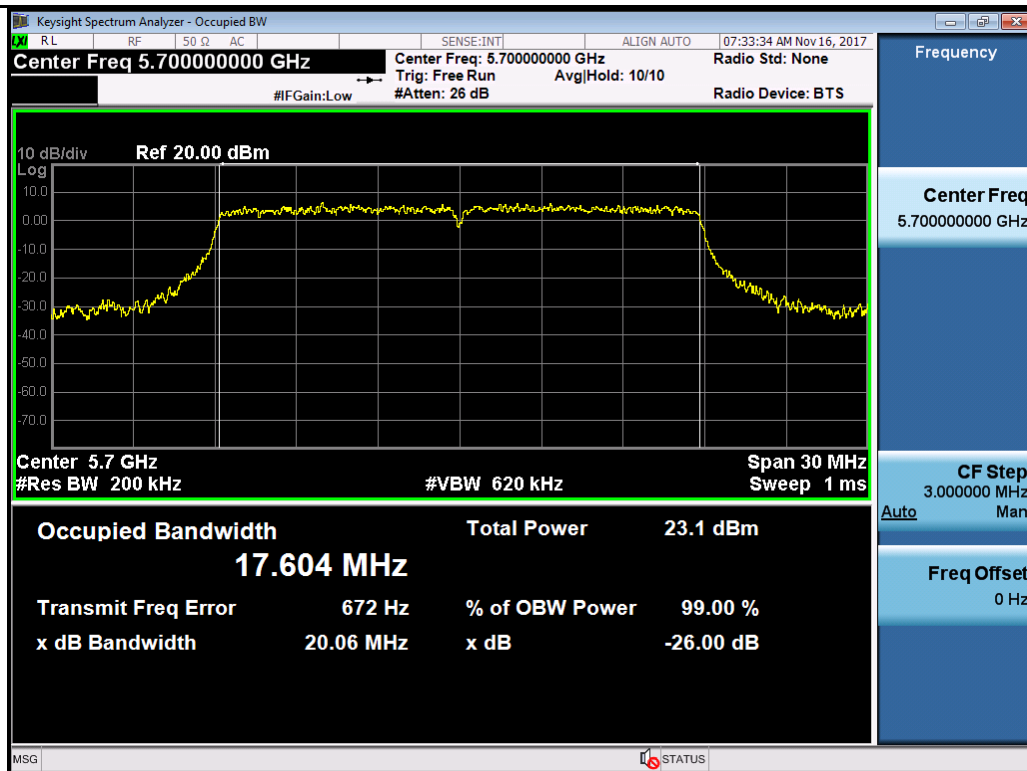
802.11a-5700MHz



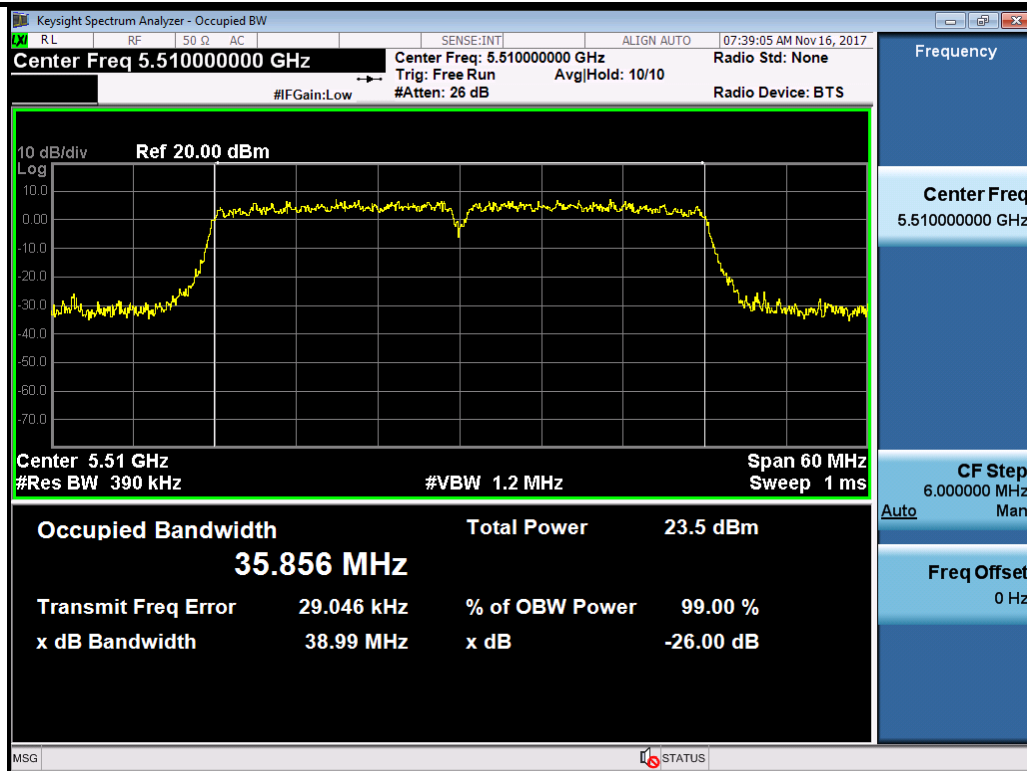
802.11n-HT20-5500MHz



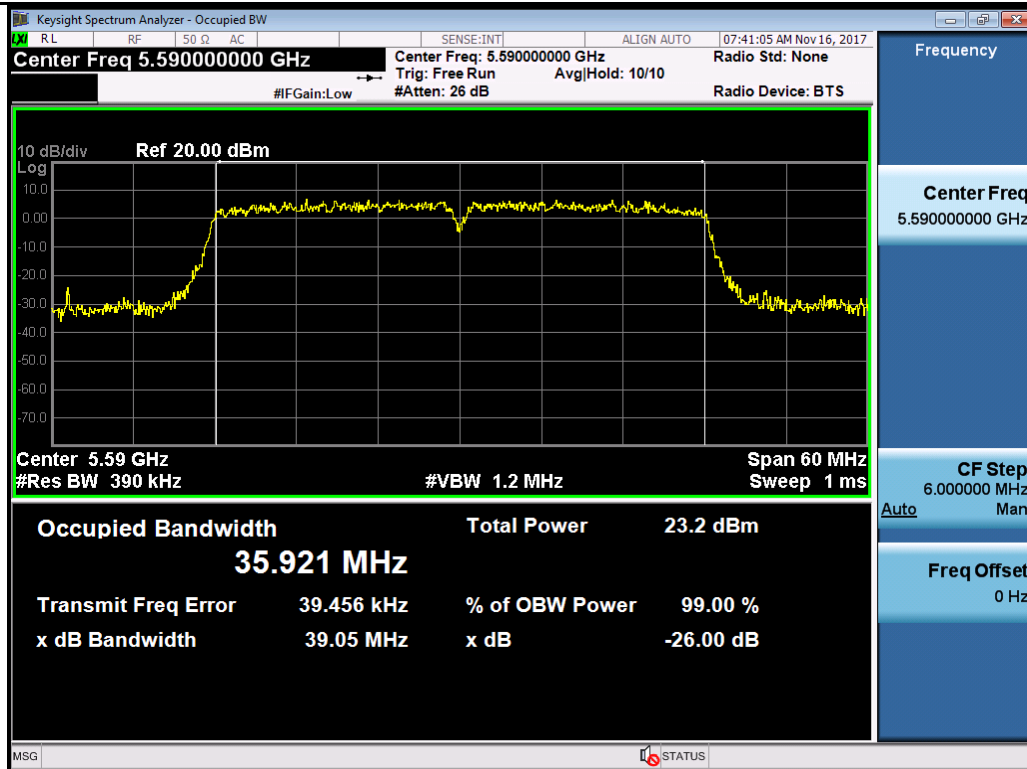
802.11n-HT20-5580MHz



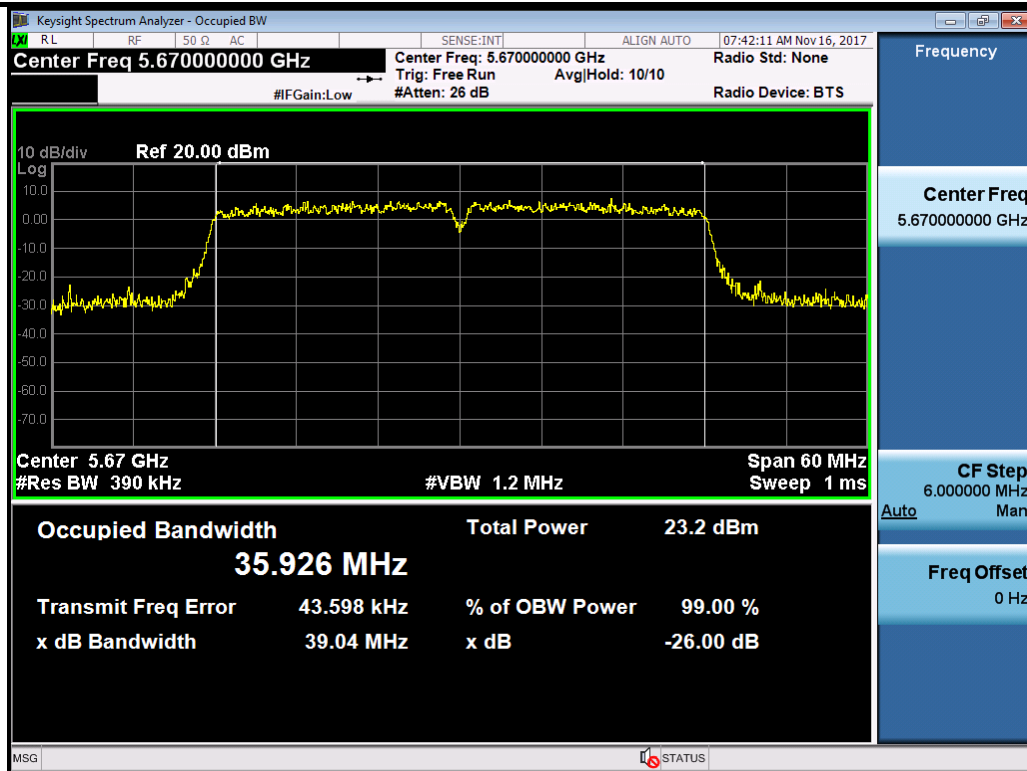
802.11n-HT20-5700MHz



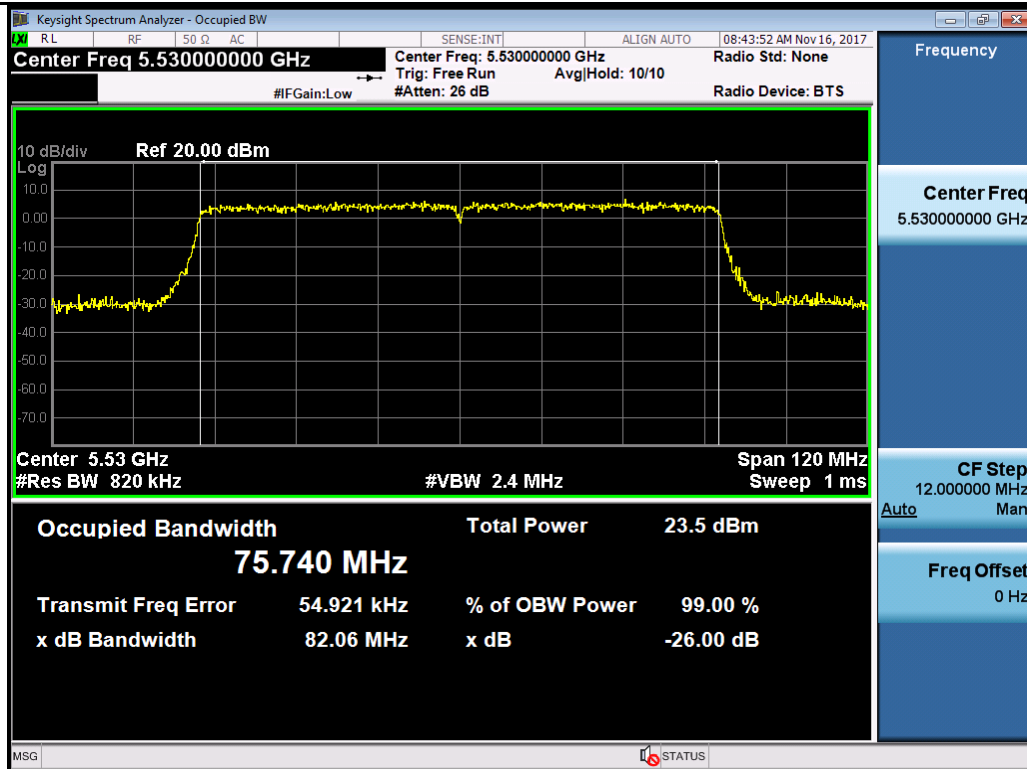
802.11n-HT40-5510MHz



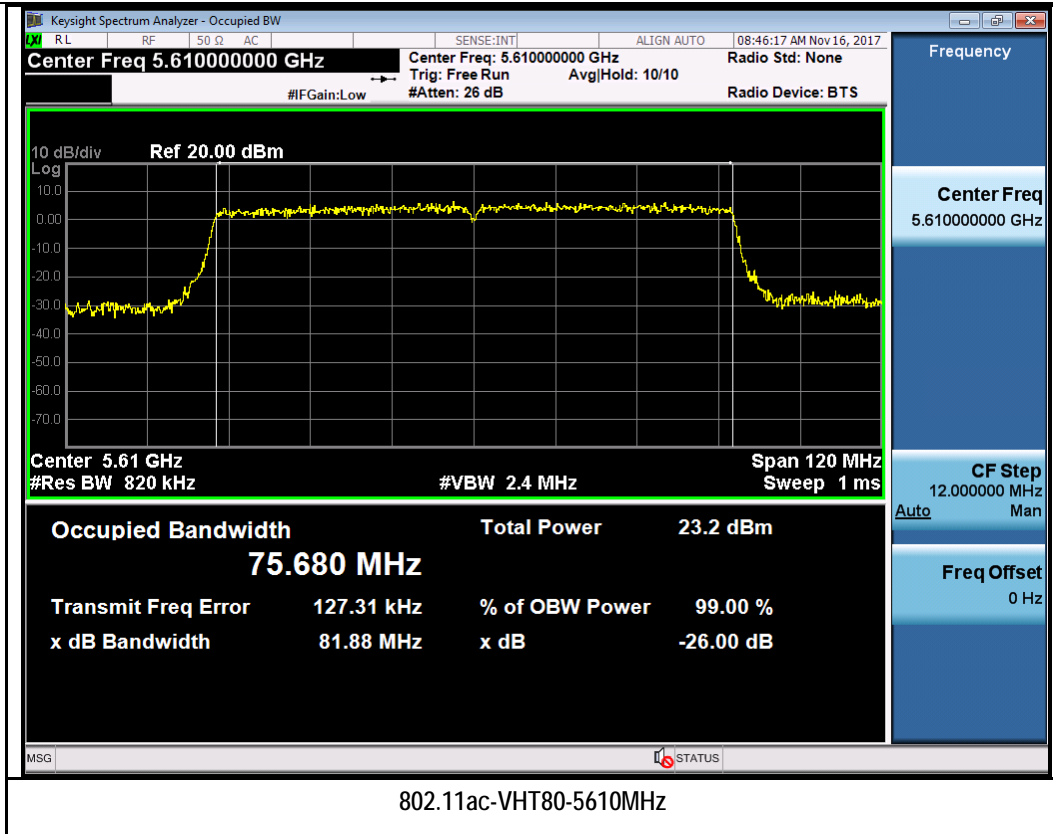
802.11n-HT40-5550MHz



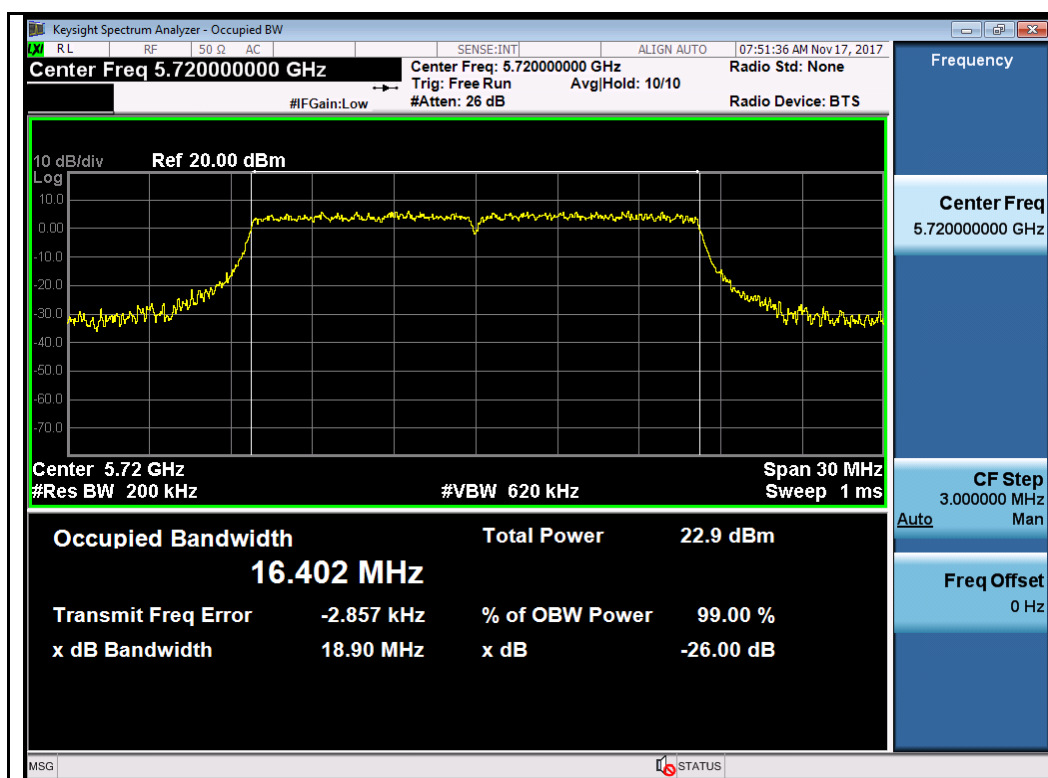
802.11n-HT40-5670MHz



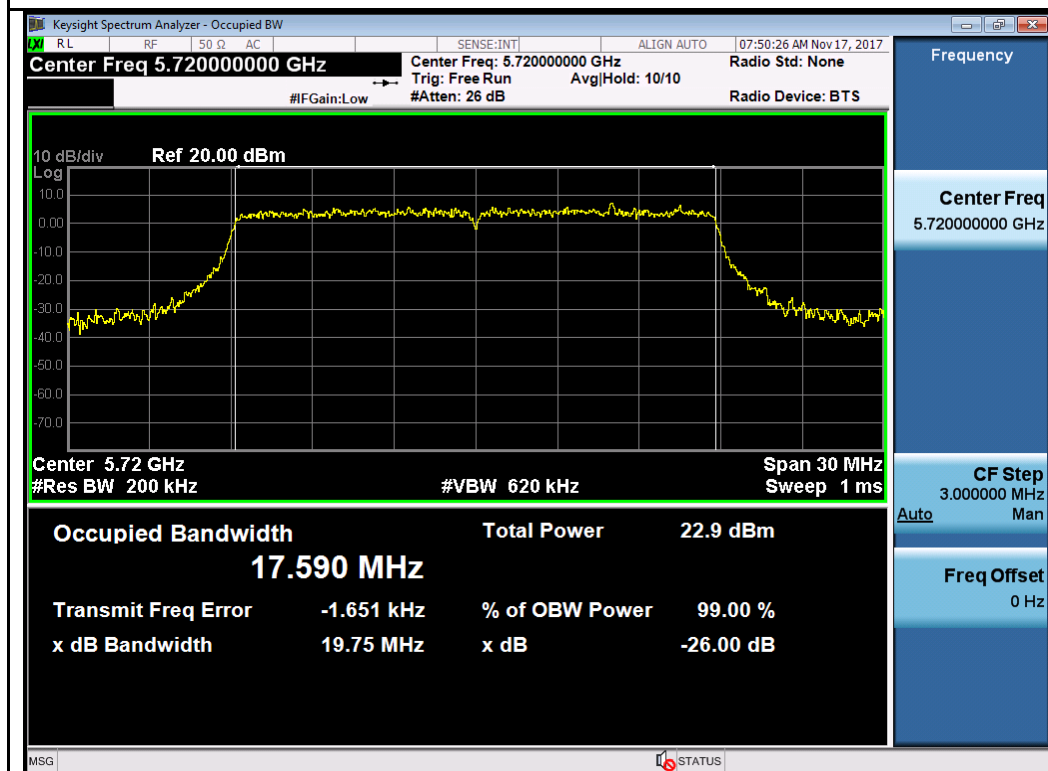
802.11ac-VHT80-5530MHz



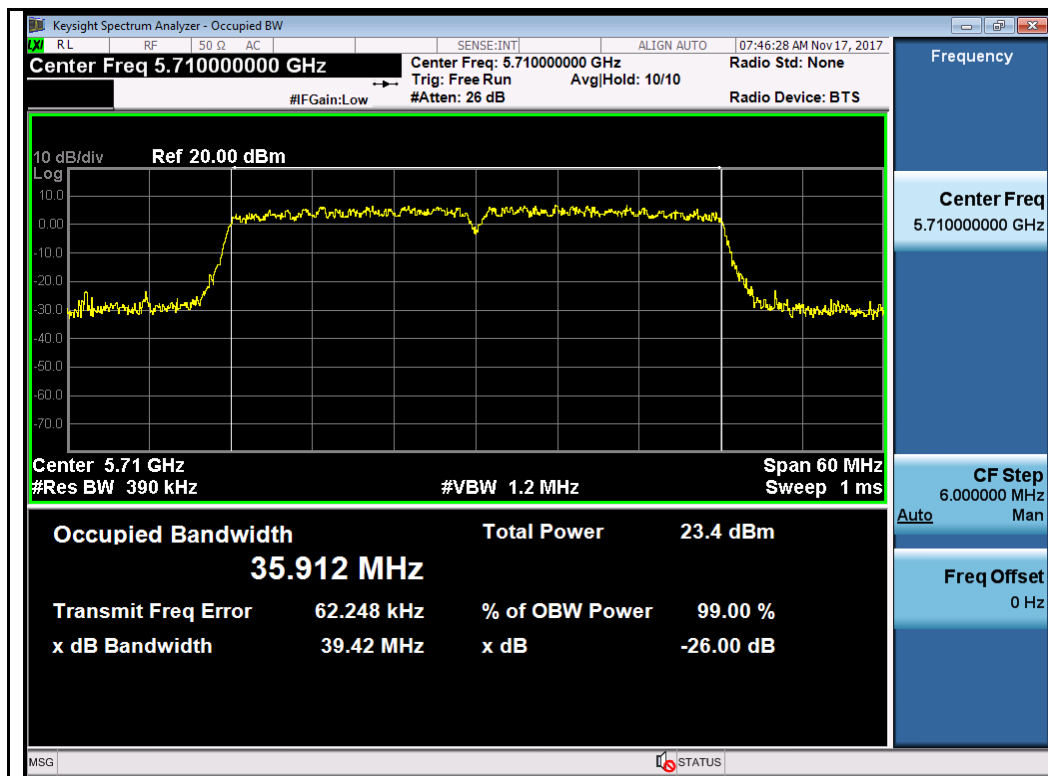
26dB BW Cross Band:



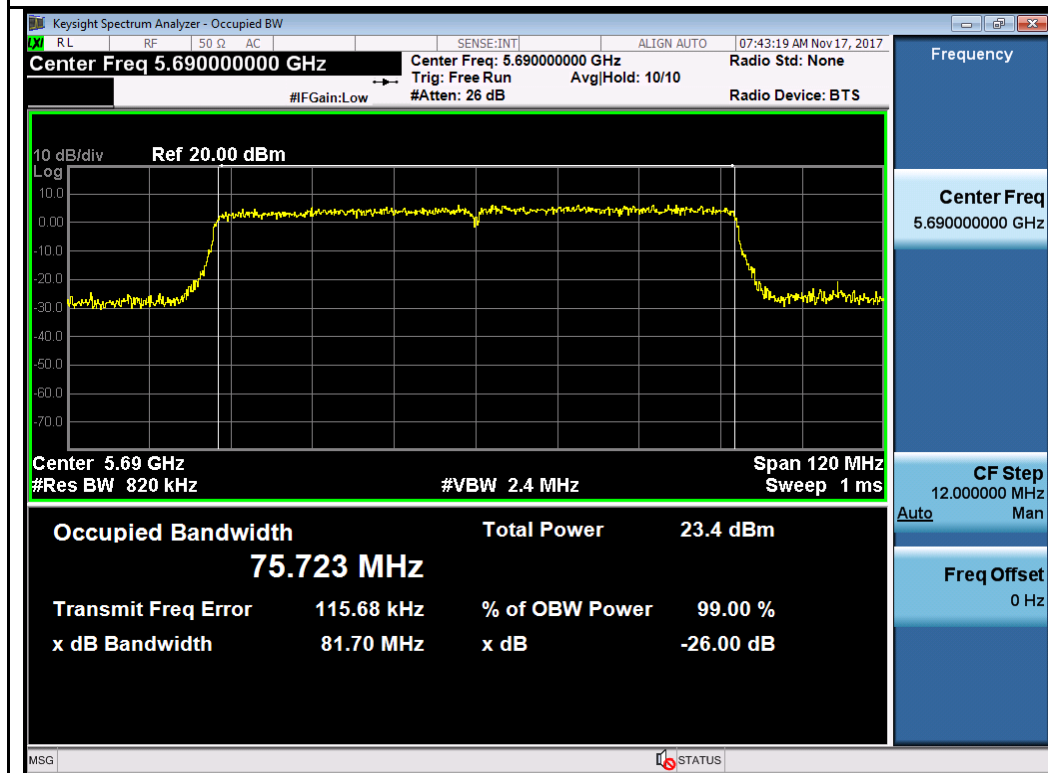
802.11a-5720MHz



802.11n-HT20 5720MHz

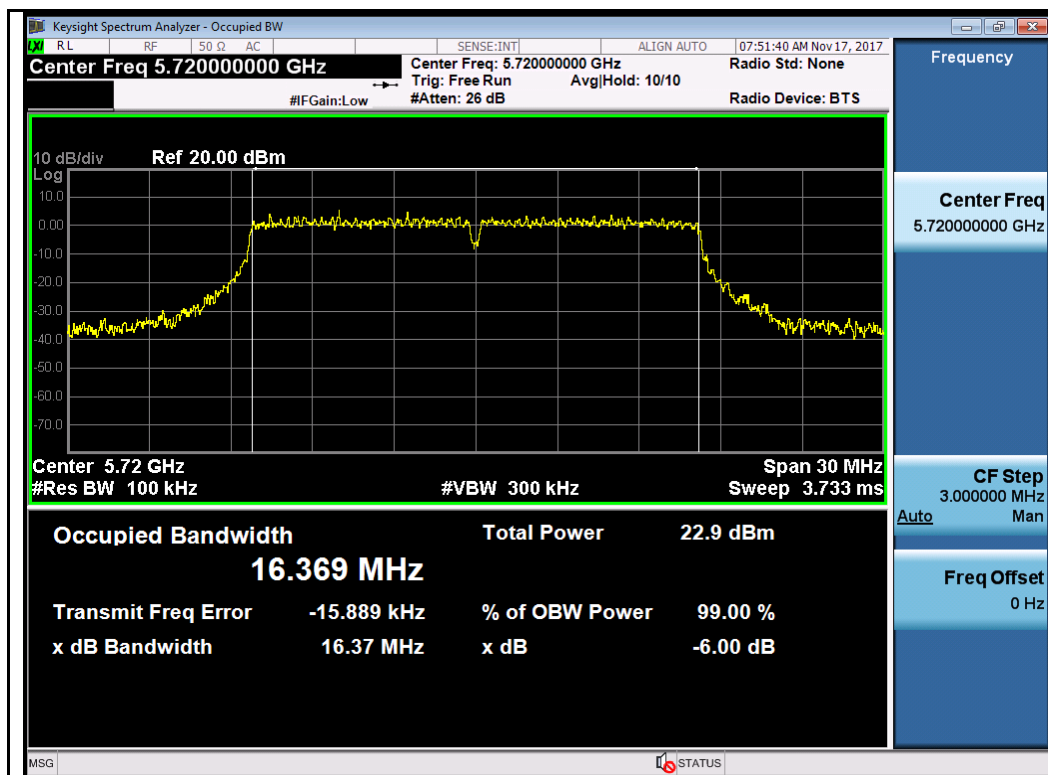


802.11n-HT40 5710MHz

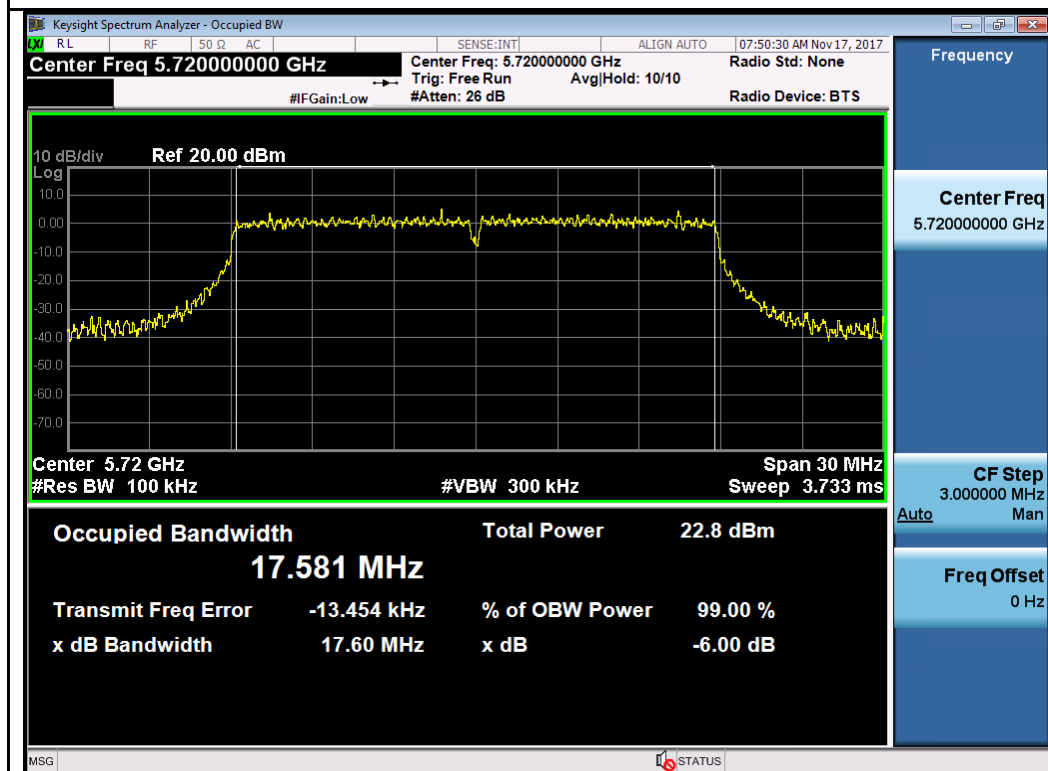


802.11n-HT20-5690MHz

6dB BW Cross Band:



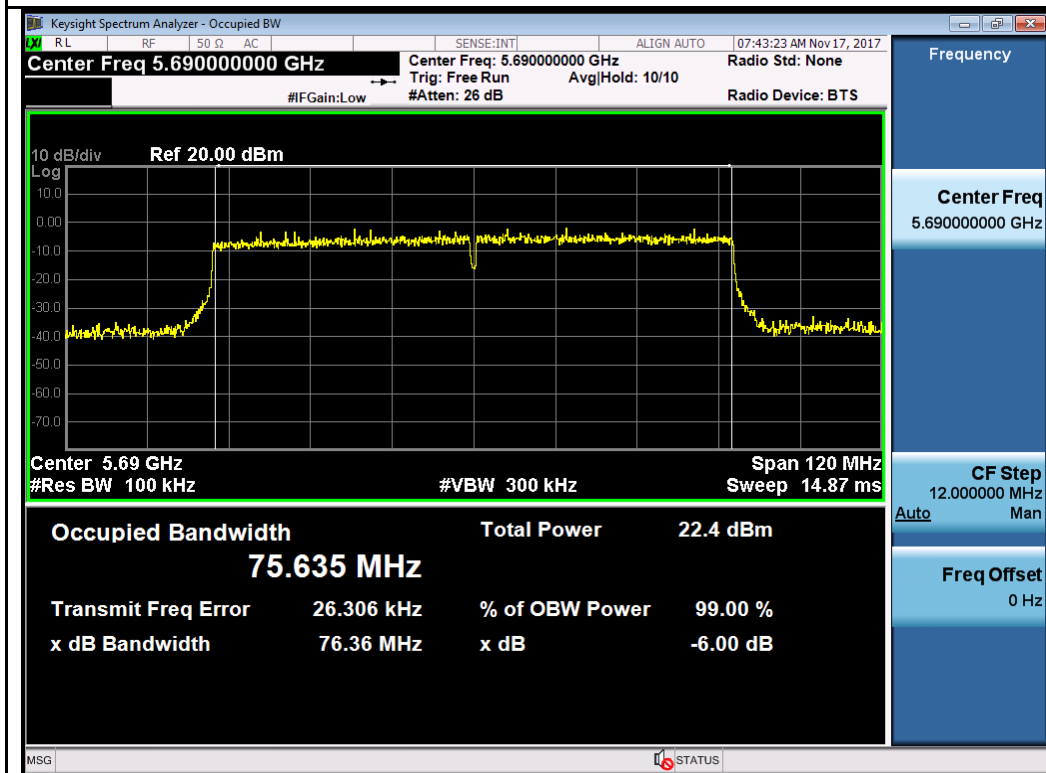
802.11a-5720MHz



802.11n-HT20 5720MHz




802.11n-HT40 5710MHz



802.11ac-VHT80-5690MHz

10.4 Output Power

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.407	a)(2)	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.	<input checked="" type="checkbox"/>
	a)(3)	For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>789033 D02 General UNII Test Procedures New Rules v01r02</p> <p><u>Measurement using a Spectrum Analyzer or EMI Receiver (SA)</u> Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):</p> <ul style="list-style-type: none"> - Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal. - Set RBW = 1 MHz - Set VBW = 3 MHz - Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.) - Sweep time = auto. - Detector = power averaging (rms), if available. Otherwise, use sample detector mode. - If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." - Trace average at least 100 traces in power averaging (rms) mode. - Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum. 		
Test Date	11/11/2017-11/21/2017	Environmental condition	Temperature 23°C Relative Humidity 44% Atmospheric Pressure 1021mbar
Remark	N/A		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Cipher at RF test site.

T310N

Output Power measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5260	Low	12.45	12.52	15.49	16.5	Pass
	802.11a	5280	Mid	12.25	12.02	15.14	16.5	Pass
	802.11a	5320	High	12.49	12.66	15.59	16.5	Pass
	802.11n-20M	5260	Low	12.49	12.48	15.49	16.5	Pass
	802.11n-20M	5280	Mid	12.37	12.32	15.35	16.5	Pass
	802.11n-20M	5320	High	12.66	12.58	15.63	16.5	Pass
	802.11n-40M	5270	Low	12.35	12.29	15.33	16.5	Pass
	802.11n-40M	5310	Mid	12.20	12.68	15.46	16.5	Pass
	802.11ac-80M	5290	High	12.73	13.22	15.99	16.5	Pass

Output Power measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5500	Low	12.15	12.35	15.26	16.5	Pass
	802.11a	5580	Mid	11.97	11.94	14.96	16.5	Pass
	802.11a	5700	High	12.09	12.09	15.10	16.5	Pass
	802.11n-20M	5500	Low	12.40	12.45	15.44	16.5	Pass
	802.11n-20M	5580	Mid	12.09	12.11	15.11	16.5	Pass
	802.11n-20M	5700	High	12.11	12.22	15.18	16.5	Pass
	802.11n-40M	5510	Low	12.75	12.61	15.69	16.5	Pass
	802.11n-40M	5550	Mid	12.18	12.40	15.30	16.5	Pass
	802.11n-40M	5670	High	12.35	12.54	15.46	16.5	Pass
	802.11ac-80M	5530	Low	13.05	12.11	15.61	16.5	Pass
	802.11ac-80M	5610	High	12.77	12.34	15.57	16.5	Pass

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 13.5 dBi, 13.5-6 = 7.5 dB limit adjustment is needed. All the mode transmission is MIMO.

Output Power measurement result for CROSS channels (in band 5470-5725MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
	802.11a	5720	CROSS	12.31	12.24	15.28	16.5	Pass
	802.11n-20M	5720	CROSS	12.47	12.17	15.33	16.5	Pass
	802.11n-40M	5710	CROSS	12.14	12.21	15.18	16.5	Pass
	802.11ac-80M	5690	CROSS	12.63	12.39	15.52	16.5	Pass

Output Power measurement result for CROSS channels (in band 5725-5850MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5720	CROSS	12.31	12.24	15.28	22.5	Pass
	802.11n-20M	5720	CROSS	12.47	12.17	15.33	22.5	Pass
	802.11n-40M	5710	CROSS	12.14	12.21	15.18	22.5	Pass
	802.11ac-80M	5690	CROSS	12.63	12.39	15.52	22.5	Pass

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 13.5 dBi, 13.5-6 = 7.5 dB limit adjustment is needed. All the mode transmission is MIMO.

T310S

Output Power measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5260	Low	17.60	17.41	20.52	22	Pass
	802.11a	5280	Mid	17.36	17.21	20.29	22	Pass
	802.11a	5320	High	17.53	17.60	20.57	22	Pass
	802.11n-20M	5260	Low	17.25	17.20	20.24	22	Pass
	802.11n-20M	5280	Mid	17.46	17.50	20.49	22	Pass
	802.11n-20M	5320	High	17.76	17.65	20.71	22	Pass
	802.11n-40M	5270	Low	17.27	17.33	20.31	22	Pass
	802.11n-40M	5310	Mid	17.47	17.39	20.44	22	Pass
	802.11ac-80M	5290	High	17.48	17.78	20.64	22	Pass

Output Power measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5500	Low	17.41	17.41	20.42	22	Pass
	802.11a	5580	Mid	17.74	17.89	20.83	22	Pass
	802.11a	5700	High	17.92	17.87	20.90	22	Pass
	802.11n-20M	5500	Low	17.89	18.30	21.11	22	Pass
	802.11n-20M	5580	Mid	17.87	17.79	20.84	22	Pass
	802.11n-20M	5700	High	18.08	18.10	21.10	22	Pass
	802.11n-40M	5510	Low	17.86	18.36	21.13	22	Pass
	802.11n-40M	5550	Mid	17.95	17.67	20.82	22	Pass
	802.11n-40M	5670	High	17.99	18.10	21.06	22	Pass
	802.11ac-80M	5530	Low	18.49	17.52	21.04	22	Pass
	802.11ac-80M	5610	High	17.58	18.45	21.04	22	Pass

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 8 dBi, 8-6 = 2 dB limit adjustment is needed.
All the mode transmission is MIMO.

Output Power measurement result for CROSS channels (in band 5470-5725MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
	802.11a	5720	CROSS	17.53	17.66	20.61	22	Pass
	802.11n-20M	5720	CROSS	17.88	17.73	20.81	22	Pass
	802.11n-40M	5710	CROSS	17.66	17.92	20.80	22	Pass
	802.11ac-80M	5690	CROSS	18.70	17.41	21.11	22	Pass

Output Power measurement result for CROSS channels (in band 5725-5850MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5720	CROSS	17.53	17.66	20.61	28	Pass
	802.11n-20M	5720	CROSS	17.88	17.73	20.81	28	Pass
	802.11n-40M	5710	CROSS	17.66	17.92	20.80	28	Pass
	802.11ac-80M	5690	CROSS	18.70	17.41	21.11	28	Pass

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 8 dBi, 8-6 = 2 dB limit adjustment is needed. All the mode transmission is MIMO.

T310S Beamforming Mode
Output Power measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5260	Low	14.56	14.44	17.51	19	Pass
	802.11a	5280	Mid	14.05	14.39	17.23	19	Pass
	802.11a	5320	High	14.76	14.73	17.75	19	Pass
	802.11n-20M	5260	Low	14.43	14.21	17.33	19	Pass
	802.11n-20M	5280	Mid	14.40	14.53	17.47	19	Pass
	802.11n-20M	5320	High	14.70	14.81	17.76	19	Pass
	802.11n-40M	5270	Low	14.41	14.46	17.44	19	Pass
	802.11n-40M	5310	Mid	14.41	14.50	17.46	19	Pass
	802.11ac-80M	5290	High	14.96	14.83	17.90	19	Pass

Output Power measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5500	Low	14.28	14.21	17.26	19	Pass
	802.11a	5580	Mid	14.54	14.49	17.52	19	Pass
	802.11a	5700	High	14.67	14.69	17.69	19	Pass
	802.11n-20M	5500	Low	14.96	14.41	17.70	19	Pass
	802.11n-20M	5580	Mid	14.61	14.58	17.60	19	Pass
	802.11n-20M	5700	High	14.89	14.88	17.89	19	Pass
	802.11n-40M	5510	Low	14.97	14.80	17.90	19	Pass
	802.11n-40M	5550	Mid	14.74	14.53	17.65	19	Pass
	802.11n-40M	5670	High	14.38	14.60	17.50	19	Pass
	802.11ac-80M	5530	Low	14.64	15.39	18.05	19	Pass
	802.11ac-80M	5610	High	15.01	15.46	18.25	19	Pass

Note: Array gain is $10 \log_{10}(N_{ANT})=3\text{dB}$, $N_{ANT} = 2$, highest individual gain is 8dBi, so max directional gain of the EUT is 11dBi. 11-6 = 5 dB limit adjustment is needed. All the mode transmission is MIMO.

Output Power measurement result for CROSS channels (in band 5470-5725MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
	802.11a	5720	CROSS	14.78	14.83	17.81	19	Pass
	802.11n-20M	5720	CROSS	15.06	15.08	18.08	19	Pass
	802.11n-40M	5710	CROSS	14.79	14.32	17.57	19	Pass
	802.11ac-80M	5690	CROSS	14.96	14.88	17.93	19	Pass


Output Power measurement result for CROSS channels (in band 5725-5850MHz)

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
Output Power	802.11a	5720	CROSS	14.78	14.83	17.81	25	Pass
	802.11n-20M	5720	CROSS	15.06	15.08	18.08	25	Pass
	802.11n-40M	5710	CROSS	14.79	14.32	17.57	25	Pass
	802.11ac-80M	5690	CROSS	14.96	14.88	17.93	25	Pass

Note: Array gain is $10 \log_{10}(N_{ANT})=3\text{dB}$, $N_{ANT} = 2$, highest individual gain is 8dBi, so max directional gain of the EUT is 11dBi. 11-6 = 5 dB limit adjustment is needed. All the mode transmission is MIMO.

10.5 Peak Power Spectral Density

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.407	a)(1)(i)	For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.	<input type="checkbox"/>
	a)(1)(ii)	For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.	<input type="checkbox"/>
	a)(2)	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.	<input checked="" type="checkbox"/>
	a)(3)	For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.	<input checked="" type="checkbox"/>
Test Setup			
Test Procedure	<p>789033 D02 General UNII Test Procedures New Rules v01, II.F. Method SA-1</p> <p><u>Maximum spectral density measurement procedure</u></p> <ul style="list-style-type: none"> - Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal. - Set RBW = 1 MHz - Set VBW ≥ 3 MHz - Detector = RMS. - Sweep time = auto couple. - Trace mode = max hold. - Trace average at least 100 traces in power averaging - Use the peak marker function to determine the maximum amplitude level within the RBW. <p>Apply correction to the result if different RBW is used.</p>		
Test Date	11/11/2017-11/21/2017	Environmental condition	Temperature 22°C Relative Humidity 46% Atmospheric Pressure 1020mbar
Remark	N/A		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Cipher at RF test site.

T310N

PSD measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5260	Low	0.276	0.222	3.259	3.5	Pass
	802.11a	5280	Mid	0.070	0.173	3.132	3.5	Pass
	802.11a	5320	High	0.380	0.376	3.388	3.5	Pass
	802.11n-20M	5260	Low	0.060	0.008	3.044	3.5	Pass
	802.11n-20M	5280	Mid	-0.129	-0.101	2.895	3.5	Pass
	802.11n-20M	5320	High	0.236	0.228	3.242	3.5	Pass
	802.11n-40M	5270	Low	-2.739	-2.865	0.209	3.5	Pass
	802.11n-40M	5310	Mid	-2.804	-2.786	0.215	3.5	Pass
	802.11ac-80M	5290	High	-5.735	-5.765	-2.740	3.5	Pass

PSD measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5500	Low	0.189	0.248	3.229	3.5	Pass
	802.11a	5580	Mid	-0.239	-0.197	2.792	3.5	Pass
	802.11a	5700	High	0.141	0.029	3.096	3.5	Pass
	802.11n-20M	5500	Low	0.007	-0.051	2.988	3.5	Pass
	802.11n-20M	5580	Mid	-0.451	-0.535	2.518	3.5	Pass
	802.11n-20M	5700	High	-0.299	-0.067	2.829	3.5	Pass
	802.11n-40M	5510	Low	-2.340	-2.372	0.654	3.5	Pass
	802.11n-40M	5550	Mid	-2.757	-2.941	0.162	3.5	Pass
	802.11n-40M	5670	High	-2.790	-2.783	0.224	3.5	Pass
	802.11ac-80M	5530	Low	-6.112	-6.179	-3.135	3.5	Pass
	802.11ac-80M	5610	High	-6.127	-6.348	-3.226	3.5	Pass

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 13.5 dBi, 13.5-6 = 7.5 dB limit adjustment is needed. All the mode transmission is MIMO.

PSD measurement result for cross channels (in band 5470-5725MHz)

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5720	CROSS	0.131	0.090	3.12	3.5	Pass
	802.11n-20M	5720	CROSS	-0.017	-0.008	3.00	3.5	Pass
	802.11n-40M	5710	CROSS	-3.093	-3.042	-0.06	3.5	Pass
	802.11ac-80M	5690	CROSS	-6.305	-5.981	-3.13	3.5	Pass

PSD measurement result for cross channels (in band 5725-5850MHz)

Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Corrected Level (dBm/500kHz)	Limit (dBm/500kHz)	Result
			Chain0	Chain1	Combined PSD			
802.11a	5720	CROSS	-7.624	-7.632	-4.618	2.372	22.5	Pass
802.11n-20M	5720	CROSS	-7.841	-7.420	-4.615	2.375	22.5	Pass
802.11n-40M	5710	CROSS	-10.766	-11.058	-7.899	-0.909	22.5	Pass
802.11ac-80M	5690	CROSS	-14.109	-14.118	-11.103	-4.113	22.5	Pass

Correction factor=10*log(500/100)=6.99

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 13.5 dBi, 13.5-6 = 7.5 dB limit adjustment is needed. All the mode transmission is MIMO.

T310S

PSD measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5260	Low	5.389	5.313	8.361	9	Pass
	802.11a	5280	Mid	5.072	5.101	8.097	9	Pass
	802.11a	5320	High	5.386	5.573	8.491	9	Pass
	802.11n-20M	5260	Low	5.115	5.327	8.233	9	Pass
	802.11n-20M	5280	Mid	4.953	5.029	8.001	9	Pass
	802.11n-20M	5320	High	5.362	5.289	8.336	9	Pass
	802.11n-40M	5270	Low	2.073	2.154	5.124	9	Pass
	802.11n-40M	5310	Mid	2.280	2.442	5.372	9	Pass
	802.11ac-80M	5290	High	-1.244	-1.541	1.620	9	Pass

PSD measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5500	Low	5.199	5.307	8.264	9	Pass
	802.11a	5580	Mid	5.679	5.688	8.694	9	Pass
	802.11a	5700	High	5.750	5.789	8.780	9	Pass
	802.11n-20M	5500	Low	5.663	5.689	8.686	9	Pass
	802.11n-20M	5580	Mid	5.334	5.364	8.359	9	Pass
	802.11n-20M	5700	High	5.598	5.728	8.674	9	Pass
	802.11n-40M	5510	Low	2.802	2.990	5.907	9	Pass
	802.11n-40M	5550	Mid	2.940	2.731	5.847	9	Pass
	802.11n-40M	5670	High	2.793	2.703	5.759	9	Pass
	802.11ac-80M	5530	Low	-0.368	-0.369	2.642	9	Pass
	802.11ac-80M	5610	High	-0.194	-0.663	2.588	9	Pass

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 8 dBi, 8-6 = 2 dB limit adjustment is needed.
All the mode transmission is MIMO.

PSD measurement result for cross channels (in band 5470-5725MHz)

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5720	CROSS	5.641	5.514	8.59	9	Pass
	802.11n-20M	5720	CROSS	5.370	5.384	8.39	9	Pass
	802.11n-40M	5710	CROSS	2.819	2.938	5.89	9	Pass
	802.11ac-80M	5690	CROSS	-0.415	-0.367	2.62	9	Pass

PSD measurement result for cross channels (in band 5725-5850MHz)

Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Corrected Level (dBm/500kHz)	Limit (dBm/500kHz)	Result
			Chain0	Chain1	Combined PSD			
802.11a	5720	CROSS	-2.311	-2.339	0.685	7.675	28	Pass
802.11n-20M	5720	CROSS	-2.072	-2.378	0.788	7.778	28	Pass
802.11n-40M	5710	CROSS	-4.901	-4.491	-1.681	5.309	28	Pass
802.11ac-80M	5690	CROSS	-8.021	-8.202	-5.100	1.890	28	Pass

Correction factor=10*log(500/100)=6.99

Note: Two antennas are cross polarized, the directional gain = individual antenna gain = 8 dBi, 8-6 = 2 dB limit adjustment is needed.
All the mode transmission is MIMO.

T310S Beamforming Mode
PSD measurement result for 5.3GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5260	Low	2.413	2.266	5.350	6	Pass
	802.11a	5280	Mid	2.143	2.226	5.195	6	Pass
	802.11a	5320	High	2.502	2.592	5.558	6	Pass
	802.11n-20M	5260	Low	2.137	2.255	5.207	6	Pass
	802.11n-20M	5280	Mid	2.029	1.988	5.019	6	Pass
	802.11n-20M	5320	High	2.531	2.366	5.460	6	Pass
	802.11n-40M	5270	Low	-0.780	-0.943	2.150	6	Pass
	802.11n-40M	5310	Mid	-0.640	-0.722	2.329	6	Pass
	802.11ac-80M	5290	High	-3.683	-3.659	-0.661	6	Pass

PSD measurement result for 5.5GHz

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5500	Low	2.337	2.313	5.335	6	Pass
	802.11a	5580	Mid	2.378	2.269	5.334	6	Pass
	802.11a	5700	High	2.620	2.583	5.612	6	Pass
	802.11n-20M	5500	Low	2.474	2.504	5.499	6	Pass
	802.11n-20M	5580	Mid	2.026	2.056	5.051	6	Pass
	802.11n-20M	5700	High	2.562	2.647	5.615	6	Pass
	802.11n-40M	5510	Low	-0.408	-0.467	2.573	6	Pass
	802.11n-40M	5550	Mid	-0.788	-0.604	2.315	6	Pass
	802.11n-40M	5670	High	-0.778	-0.739	2.252	6	Pass
	802.11ac-80M	5530	Low	-3.697	-3.742	-0.709	6	Pass
	802.11ac-80M	5610	High	-3.265	-3.221	-0.233	6	Pass

Note: Array gain is $10 \log_{10}(N_{ANT})=3\text{dB}$, $N_{ANT} = 2$, highest individual gain is 8dBi, so max directional gain of the EUT is 11dBi. 11-6 = 5 dB limit adjustment is needed. All the mode transmission is MIMO.

PSD measurement result for cross channels (in band 5470-5725MHz)

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm)	Result
				Chain0	Chain1	Combined Power		
PSD	802.11a	5720	CROSS	2.705	2.757	5.74	6	Pass
	802.11n-20M	5720	CROSS	2.497	2.534	5.53	6	Pass
	802.11n-40M	5710	CROSS	-0.501	-0.359	2.58	6	Pass
	802.11ac-80M	5690	CROSS	-3.733	-3.686	-0.70	6	Pass

PSD measurement result for cross channels (in band 5725-5850MHz)

Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Corrected Level (dBm/500kHz)	Limit (dBm/500kHz)	Result
			Chain0	Chain1	Combined PSD			
802.11a	5720	CROSS	-4.964	-4.951	-1.947	5.043	25	Pass
802.11n-20M	5720	CROSS	-5.199	-5.283	-2.230	4.760	25	Pass
802.11n-40M	5710	CROSS	-8.165	-8.400	-5.271	1.719	25	Pass
802.11ac-80M	5690	CROSS	-11.663	-11.634	-8.638	-1.648	25	Pass

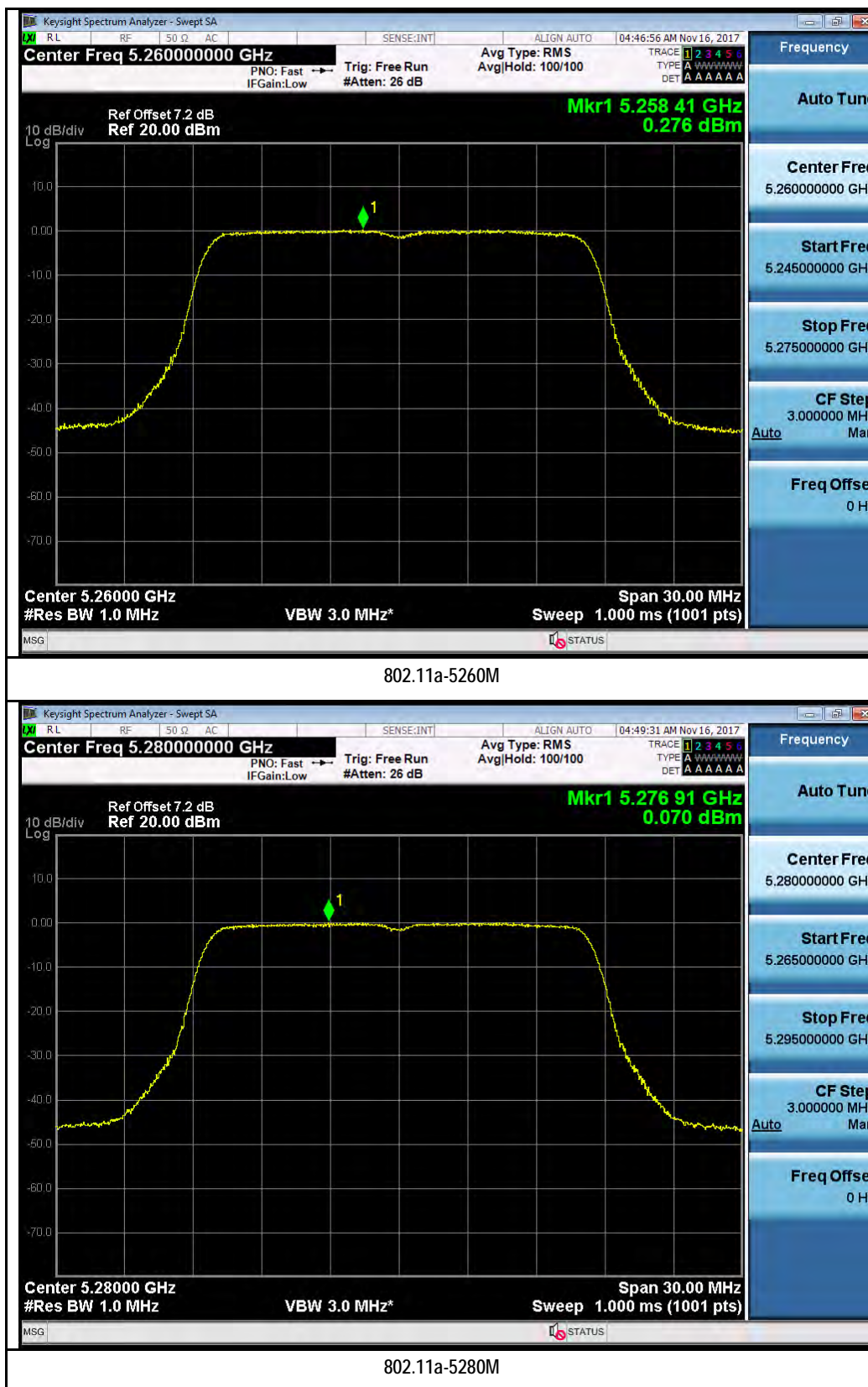
Correction factor= $10 \cdot \log(500/100)=6.99$

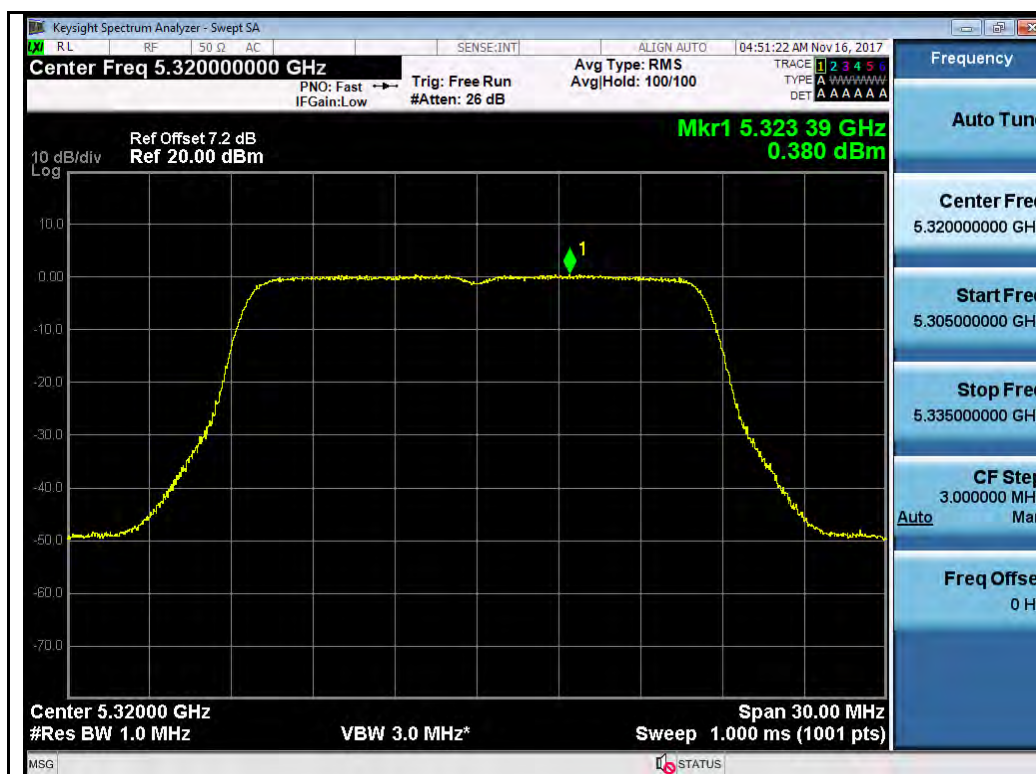
Note: Array gain is $10 \log_{10}(N_{ANT})=3\text{dB}$, $N_{ANT} = 2$, highest individual gain is 8dBi, so max directional gain of the EUT is 11dBi. 11-6 = 5 dB limit adjustment is needed. All the mode transmission is MIMO.

T310N

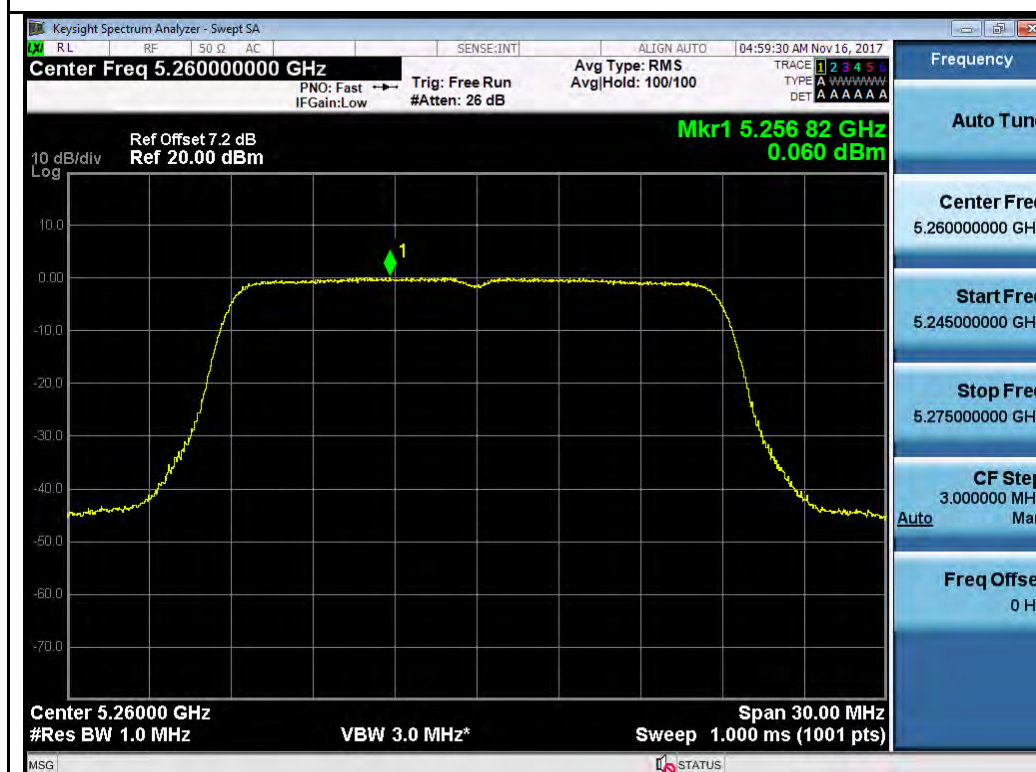
Test Plot for W53:

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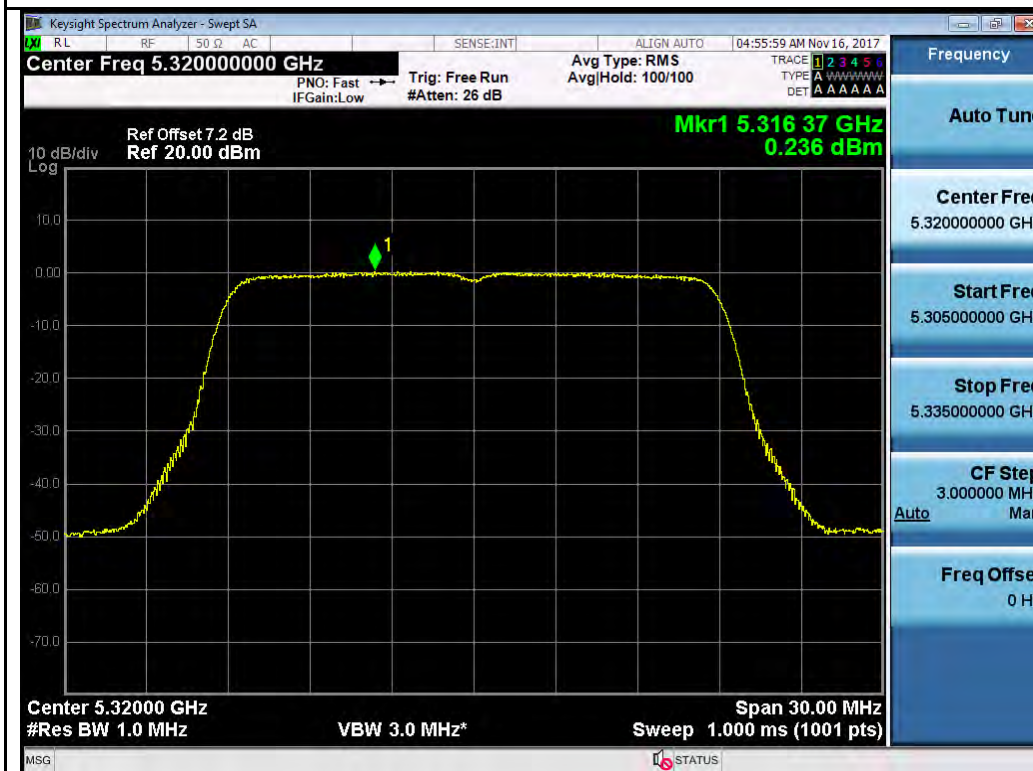
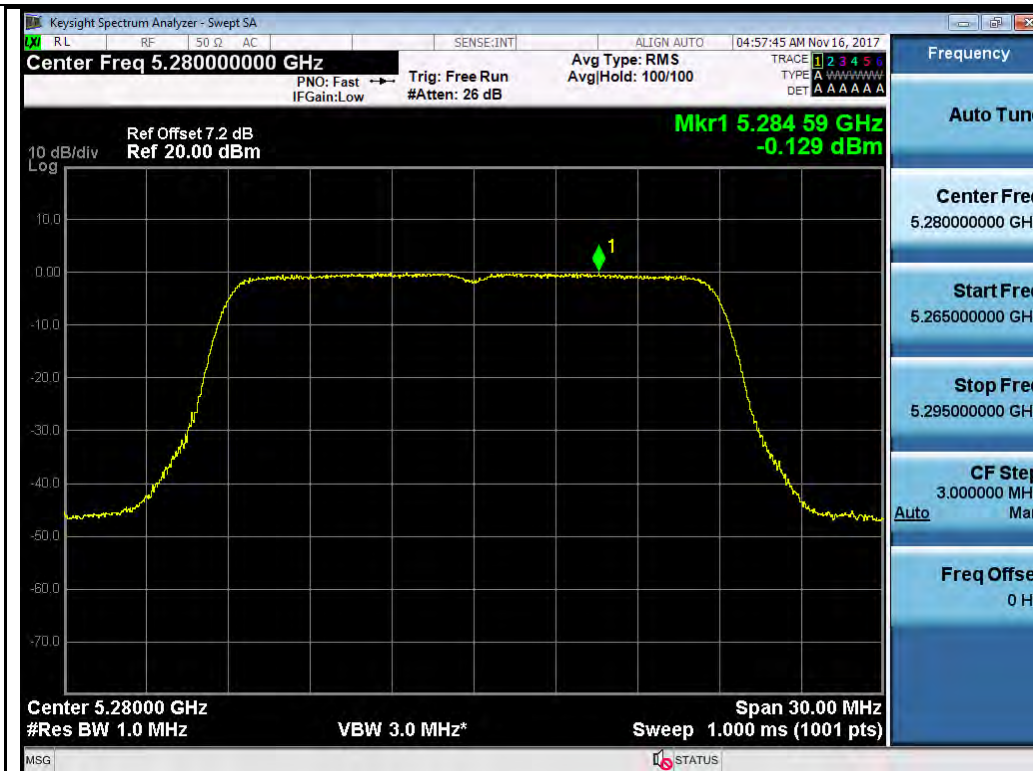


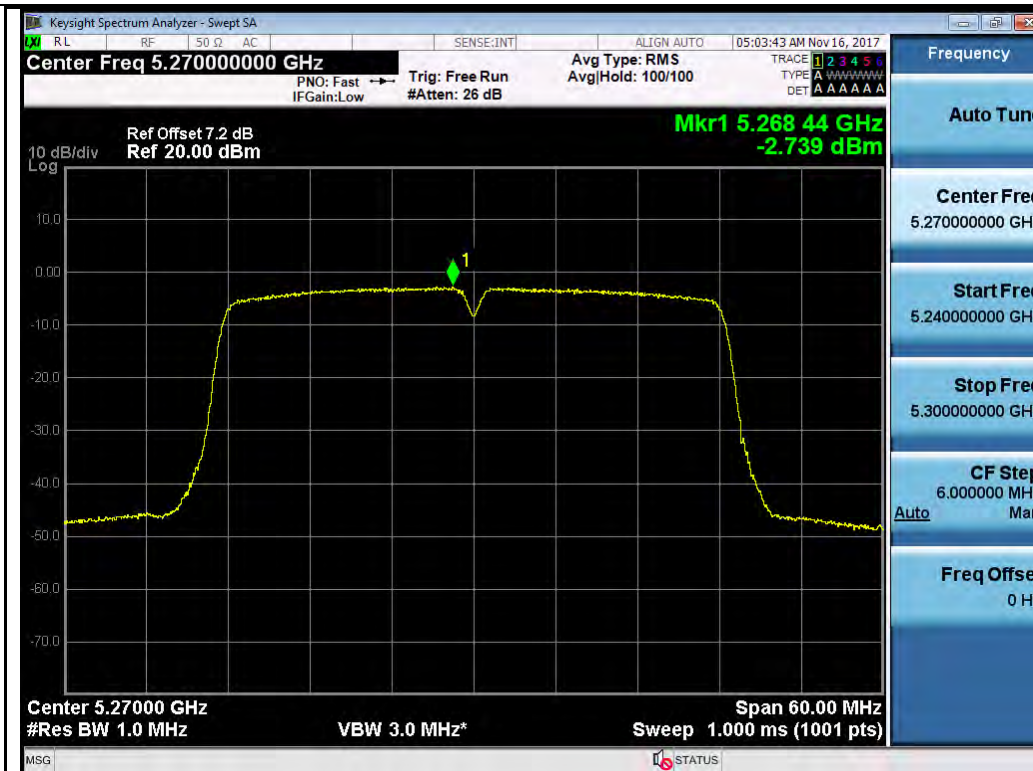


802.11a-5320M

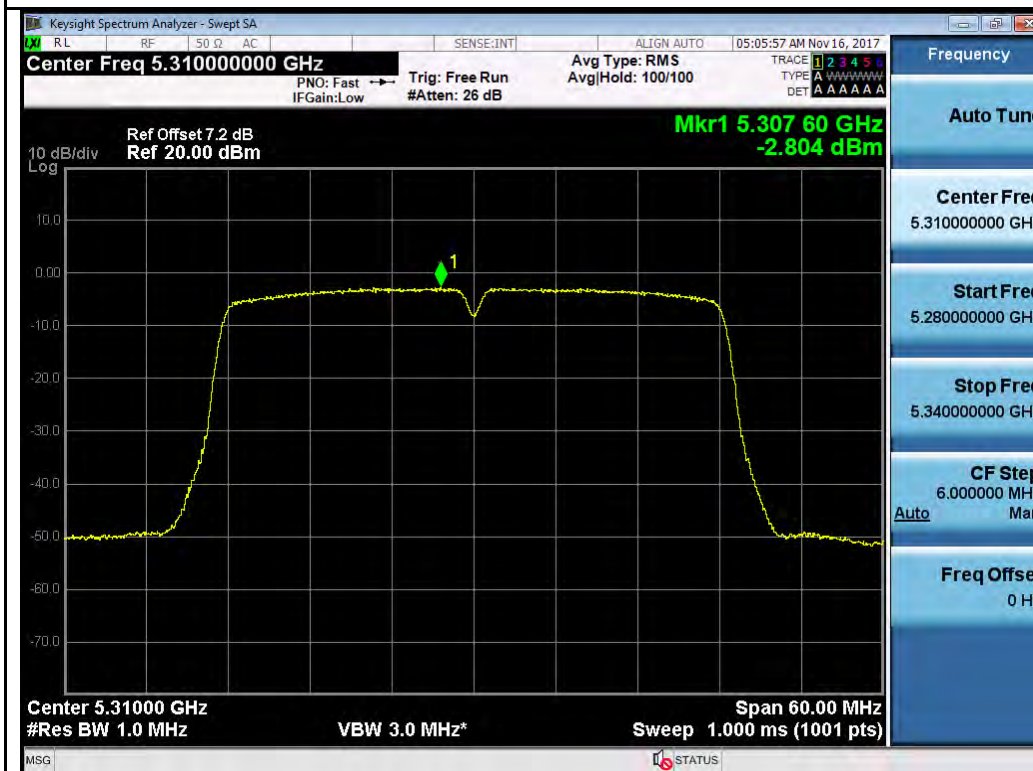


802.11n-HT20 5260M

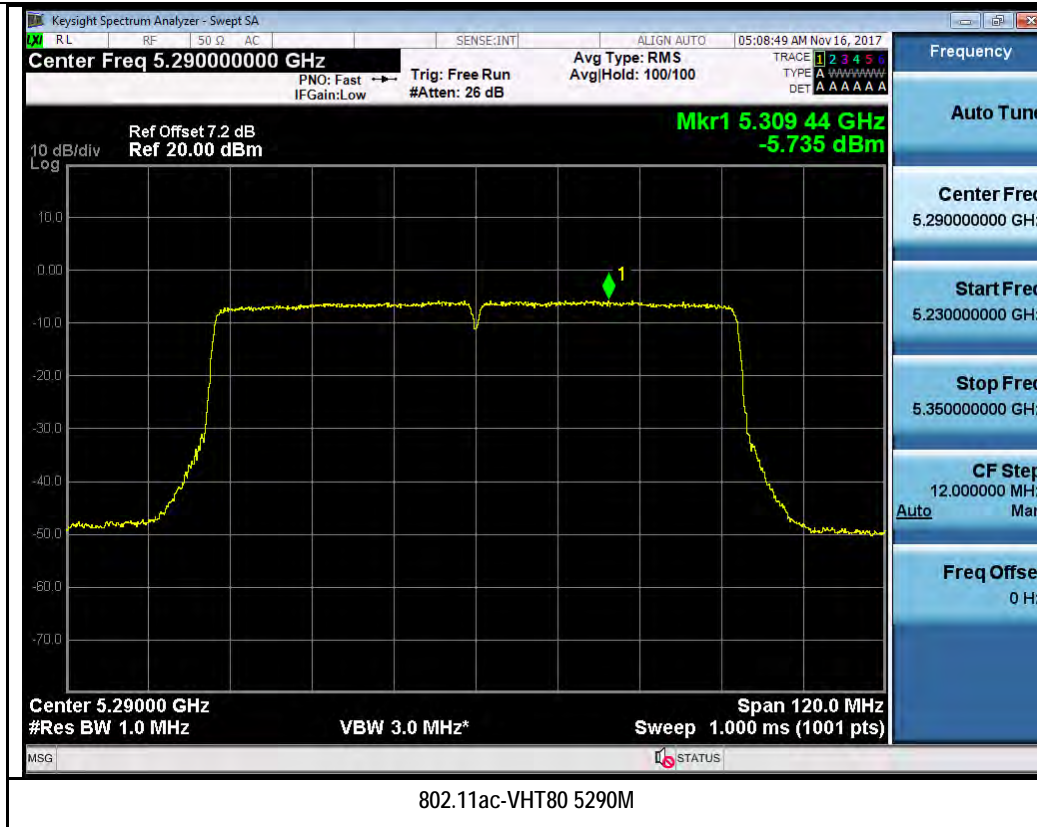




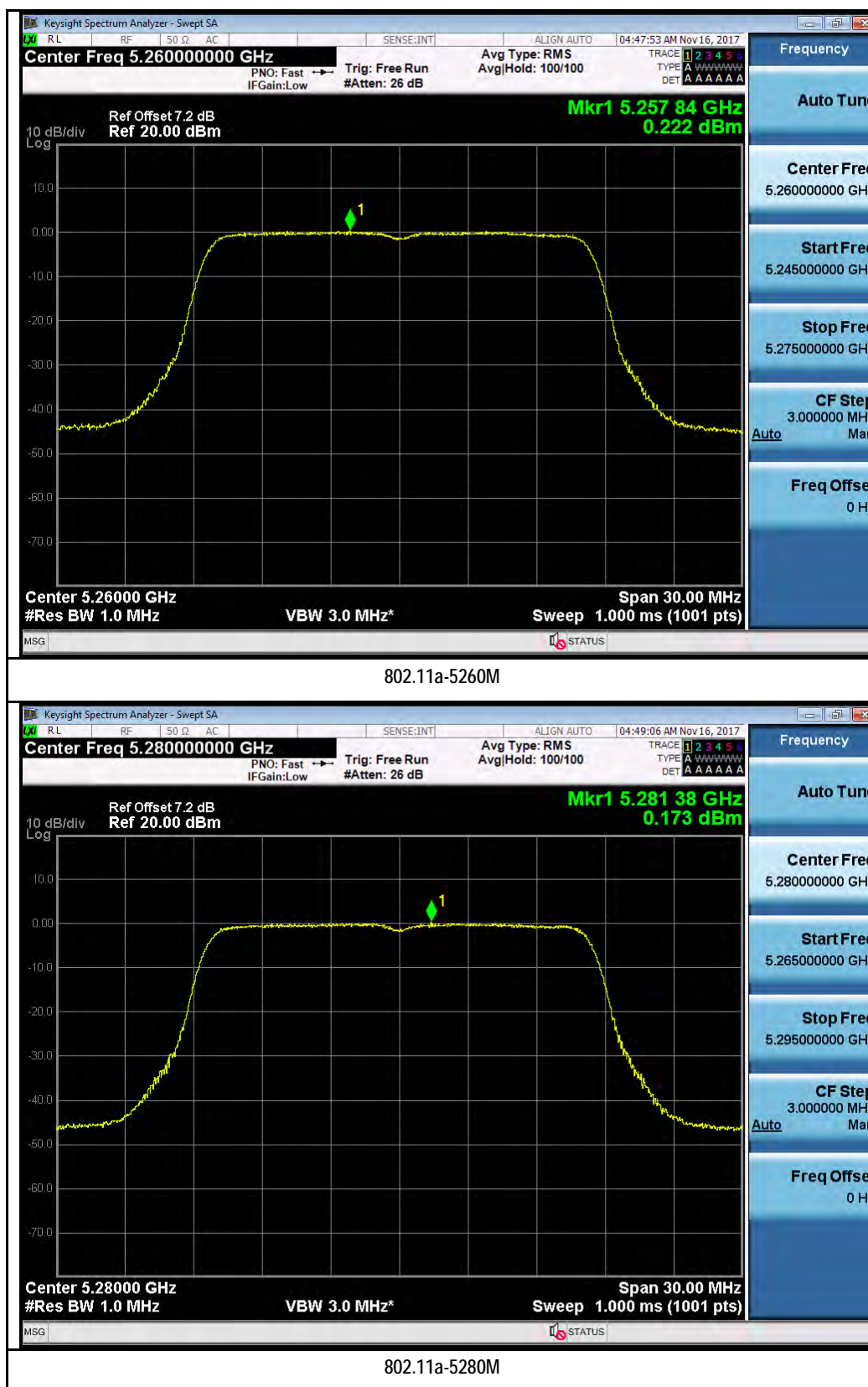
802.11n-HT40 5270M

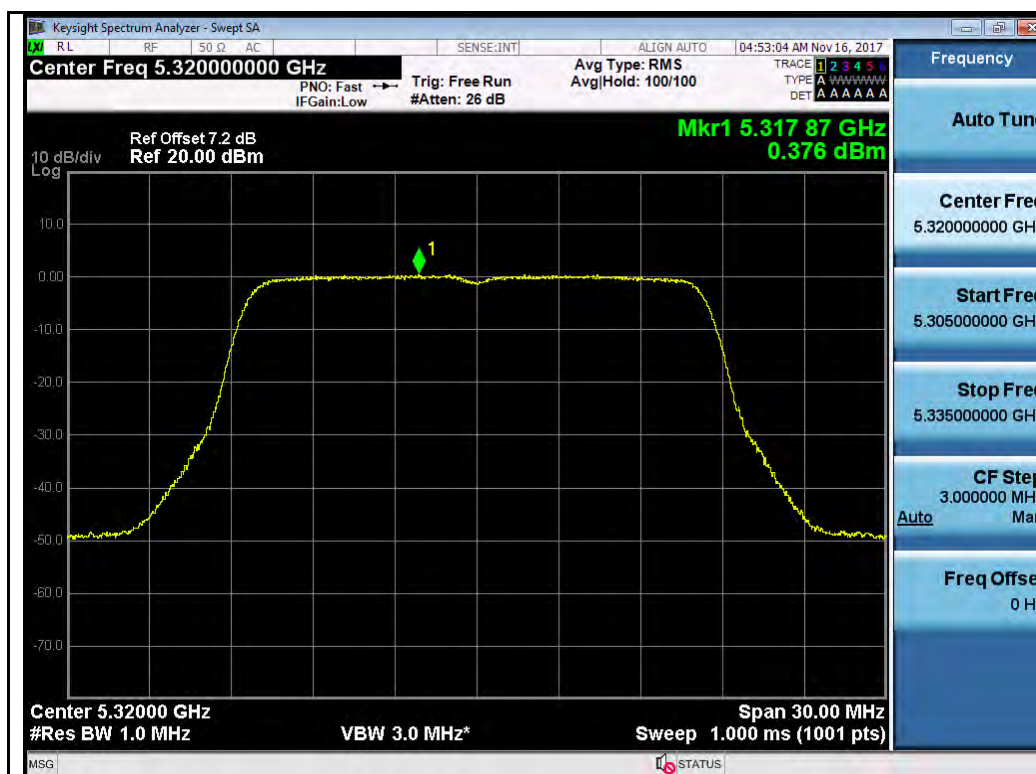


802.11n-HT40 5310M

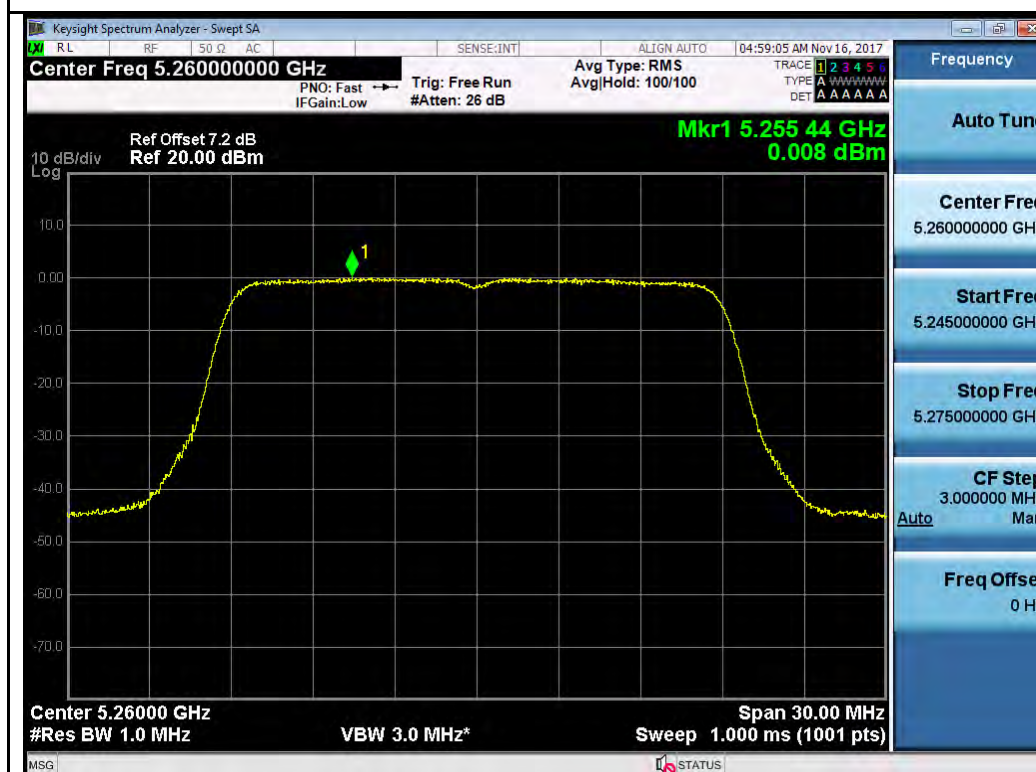


Chain 1:

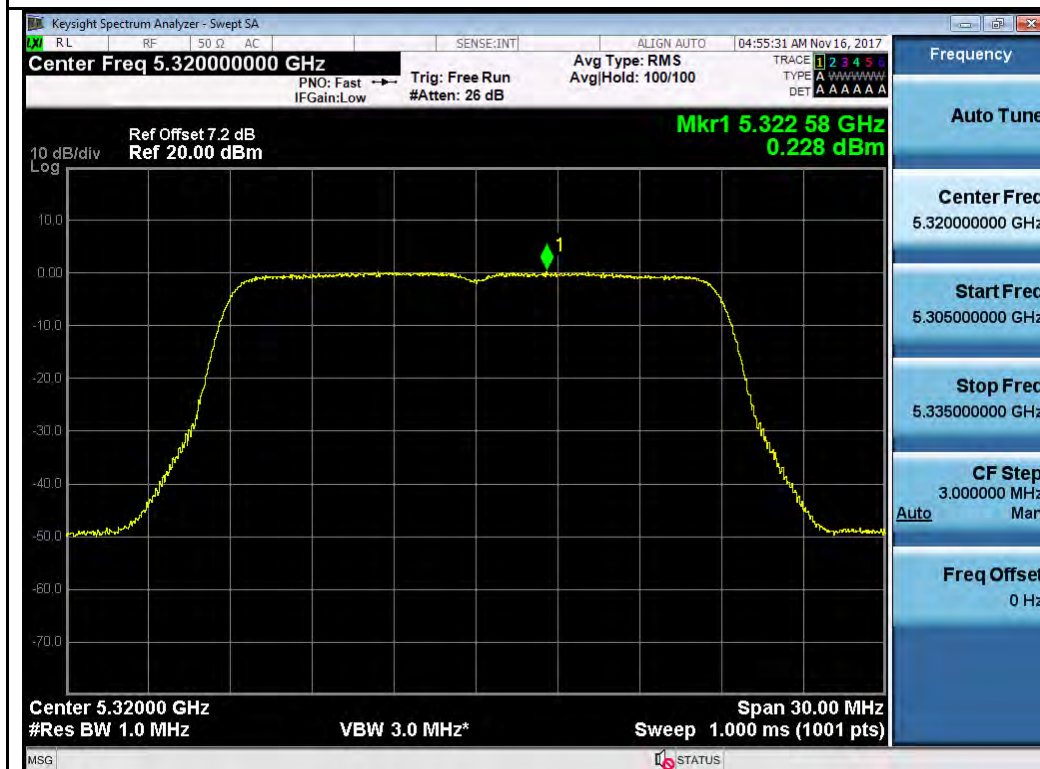
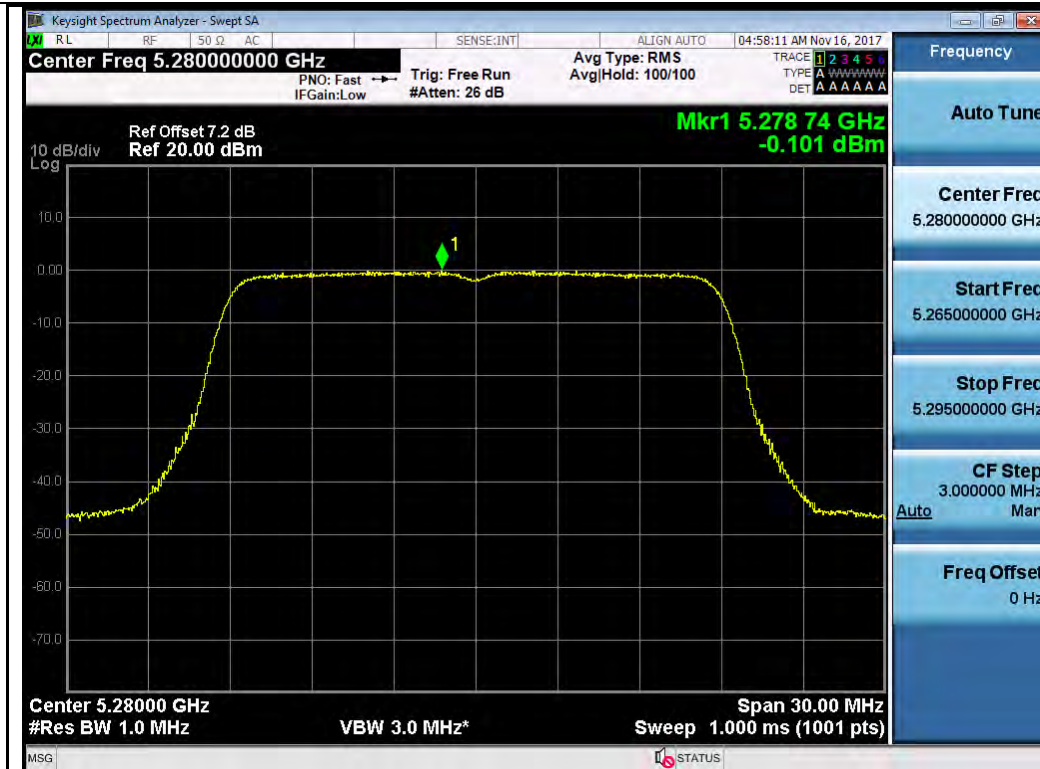


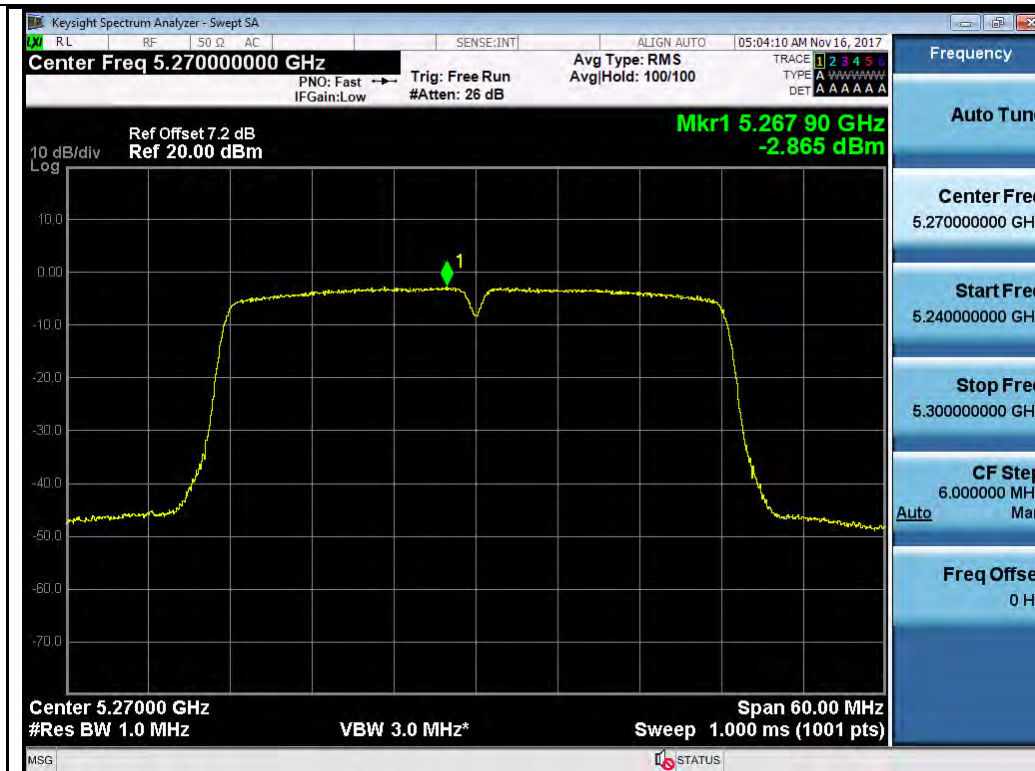


802.11a-5320M

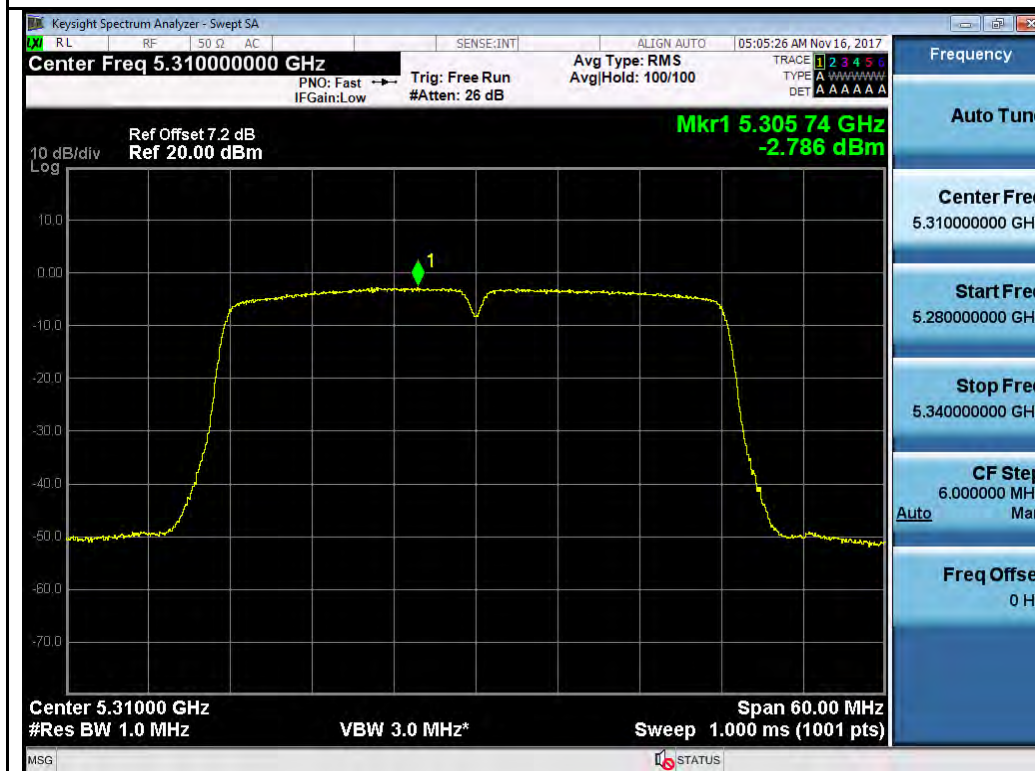


802.11n-HT20 5260M

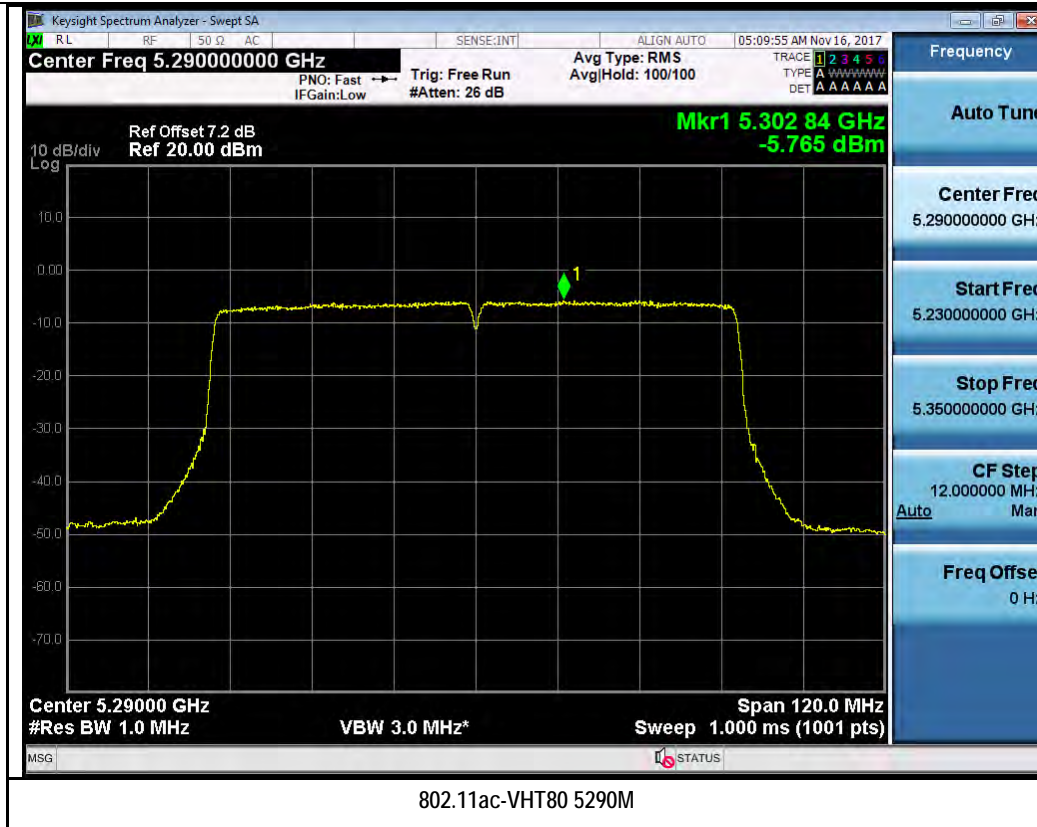




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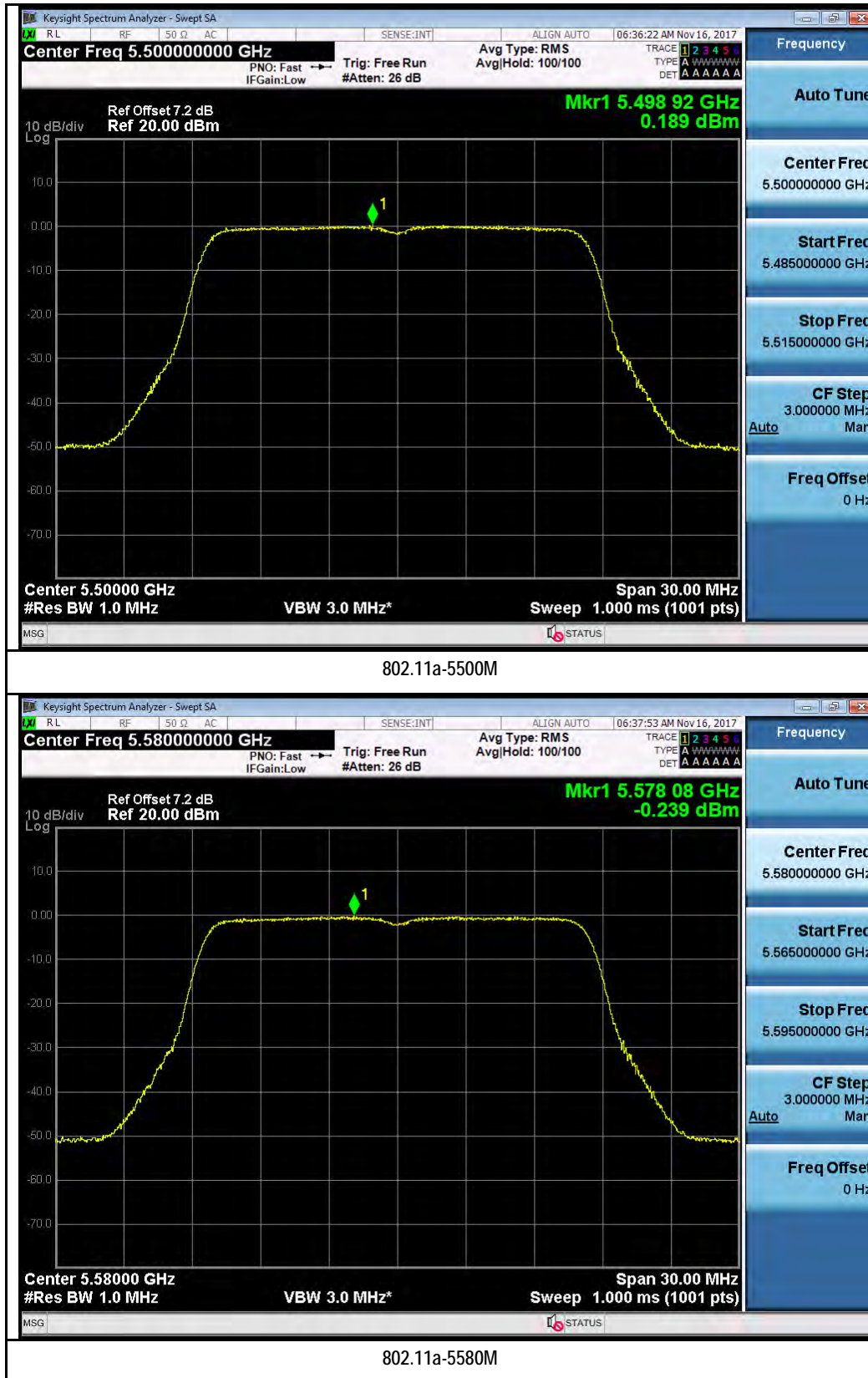


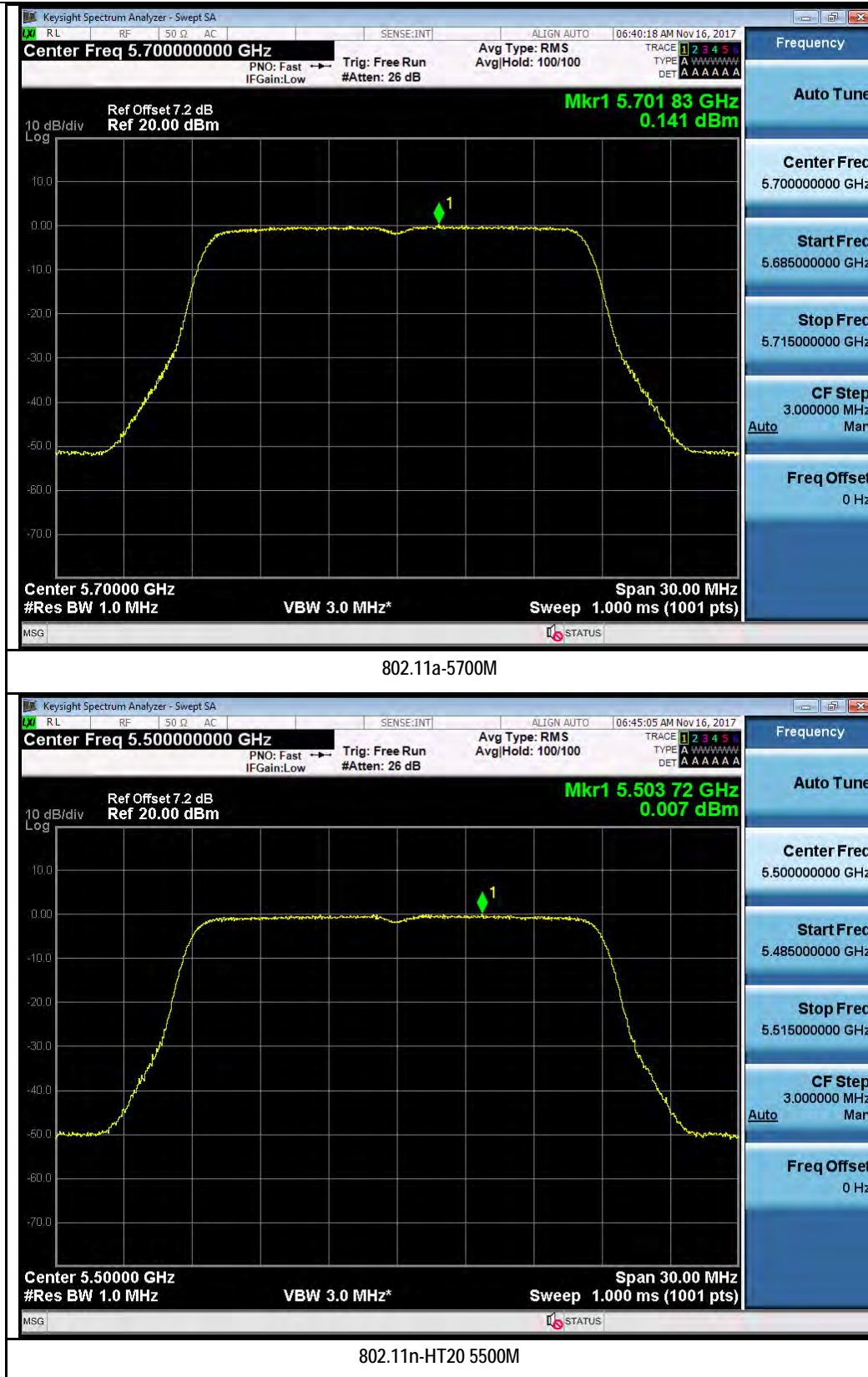
802.11n-HT40 5310M

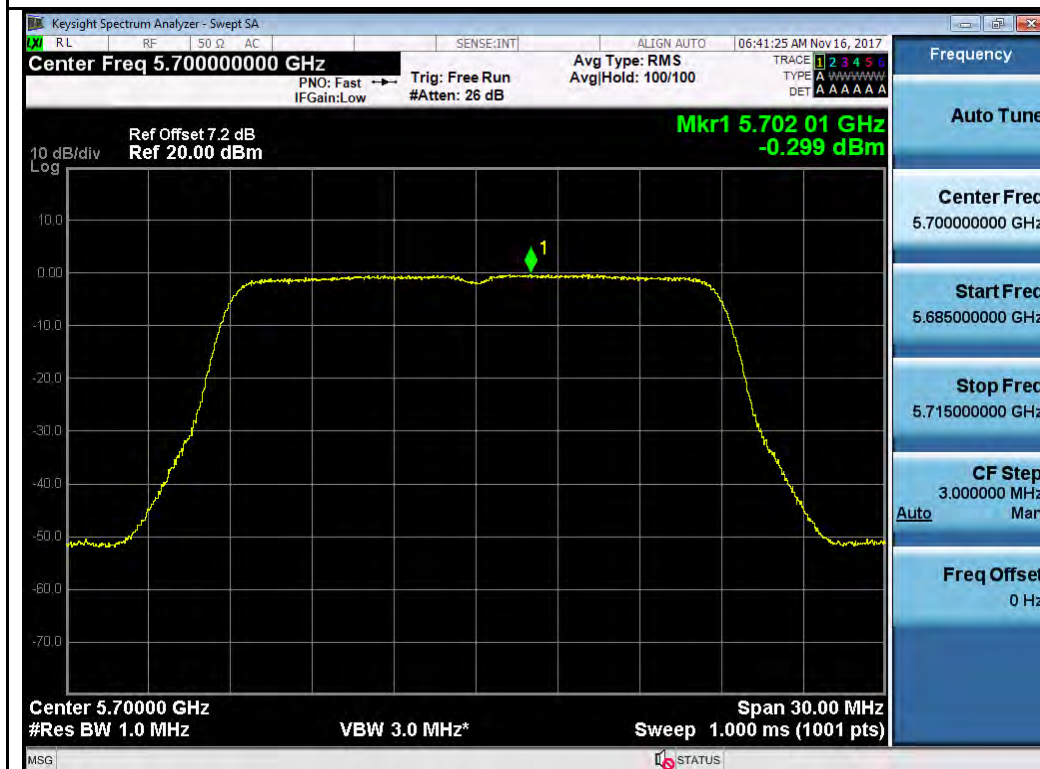
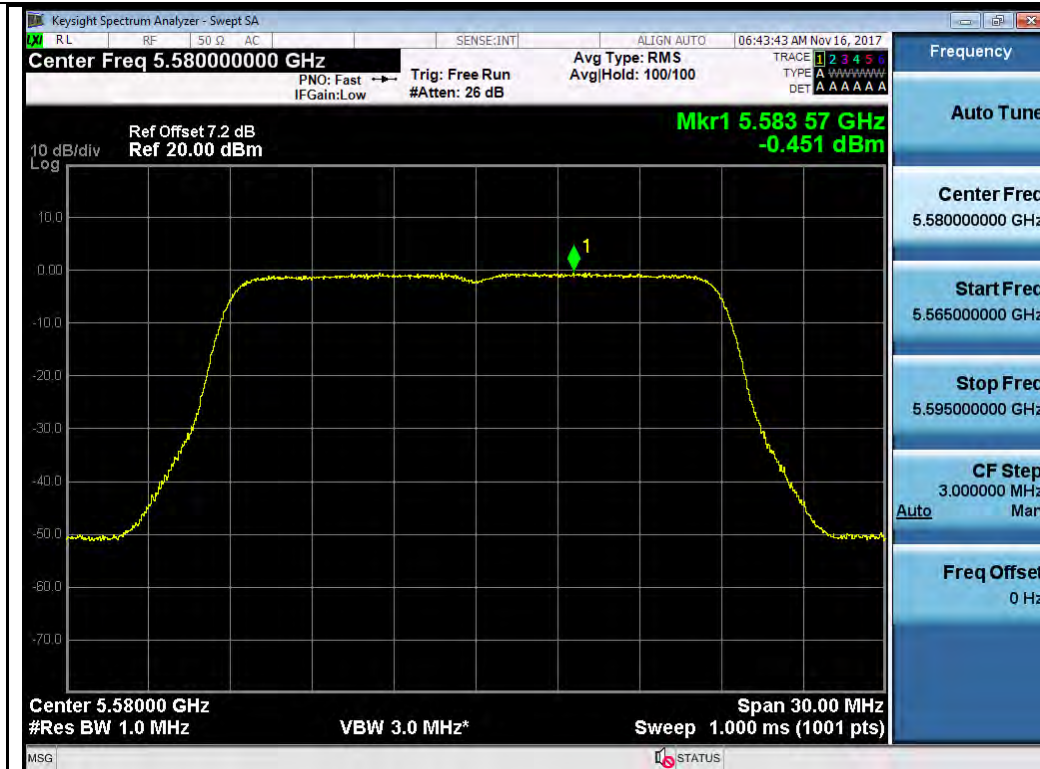


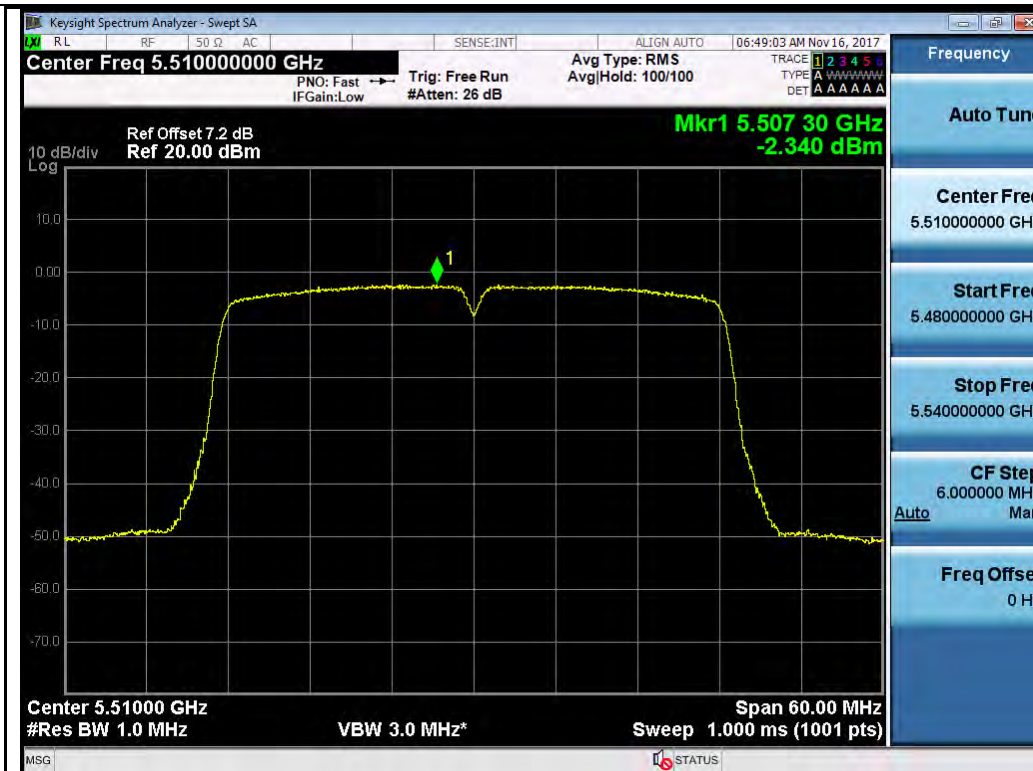
Test Plot for W56:

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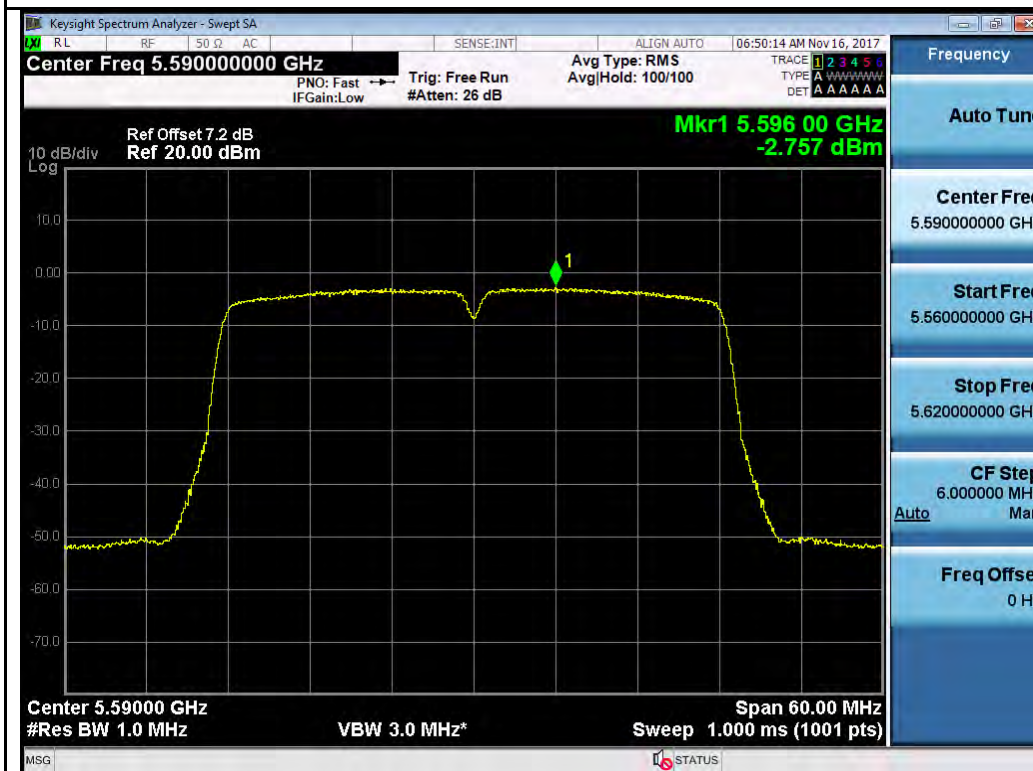




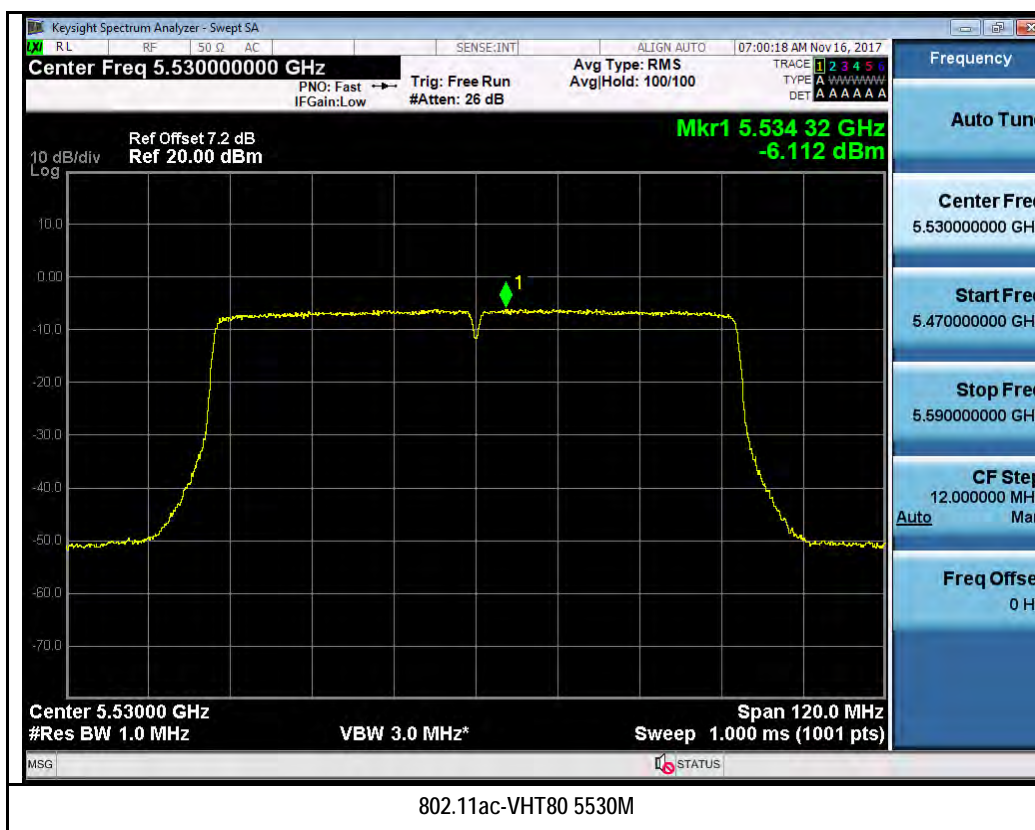
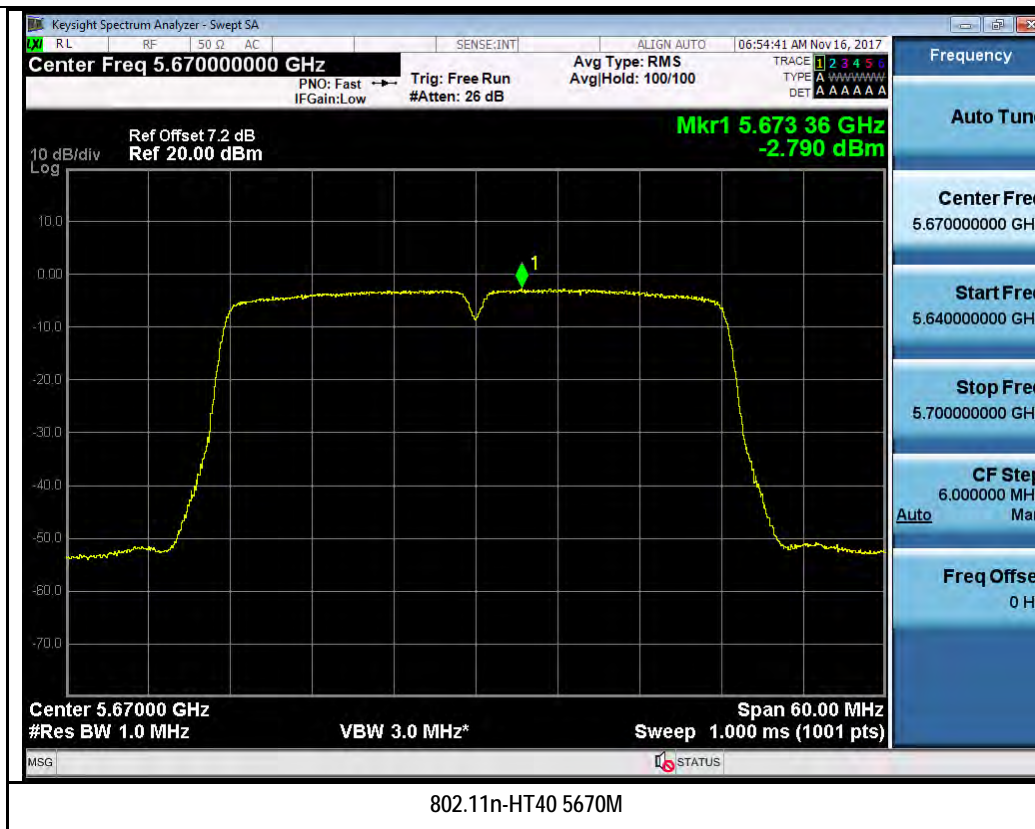


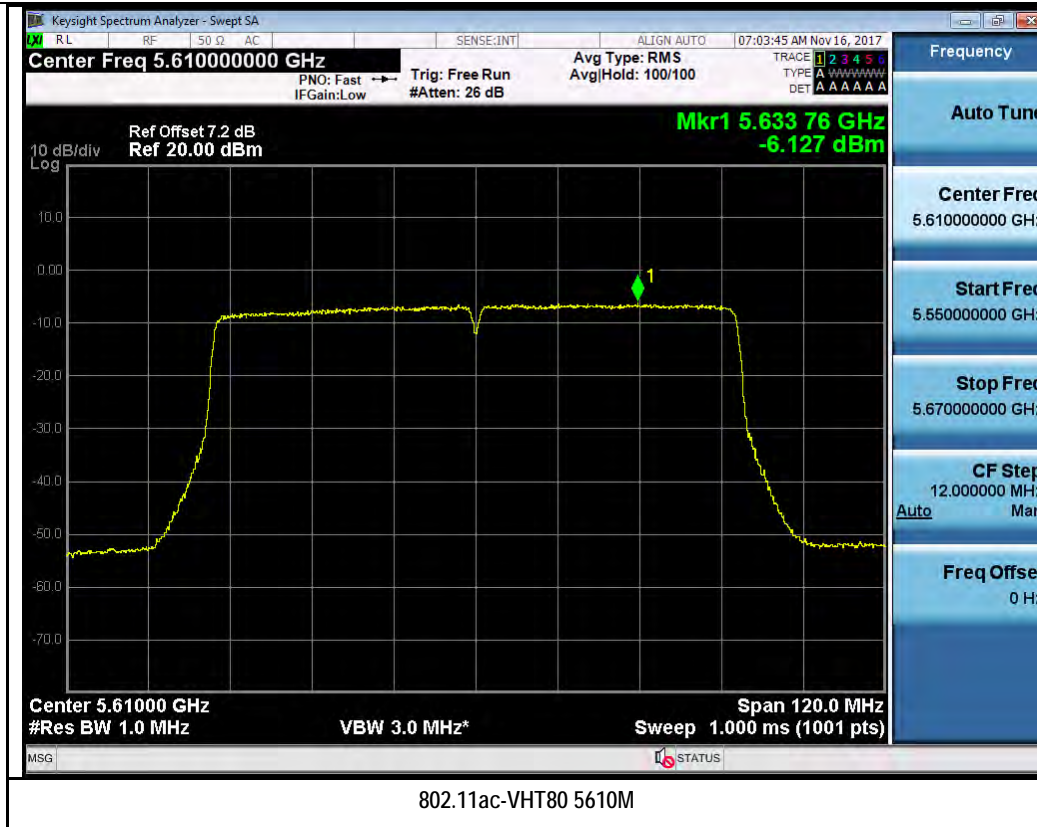


802.11n-HT40 5510M

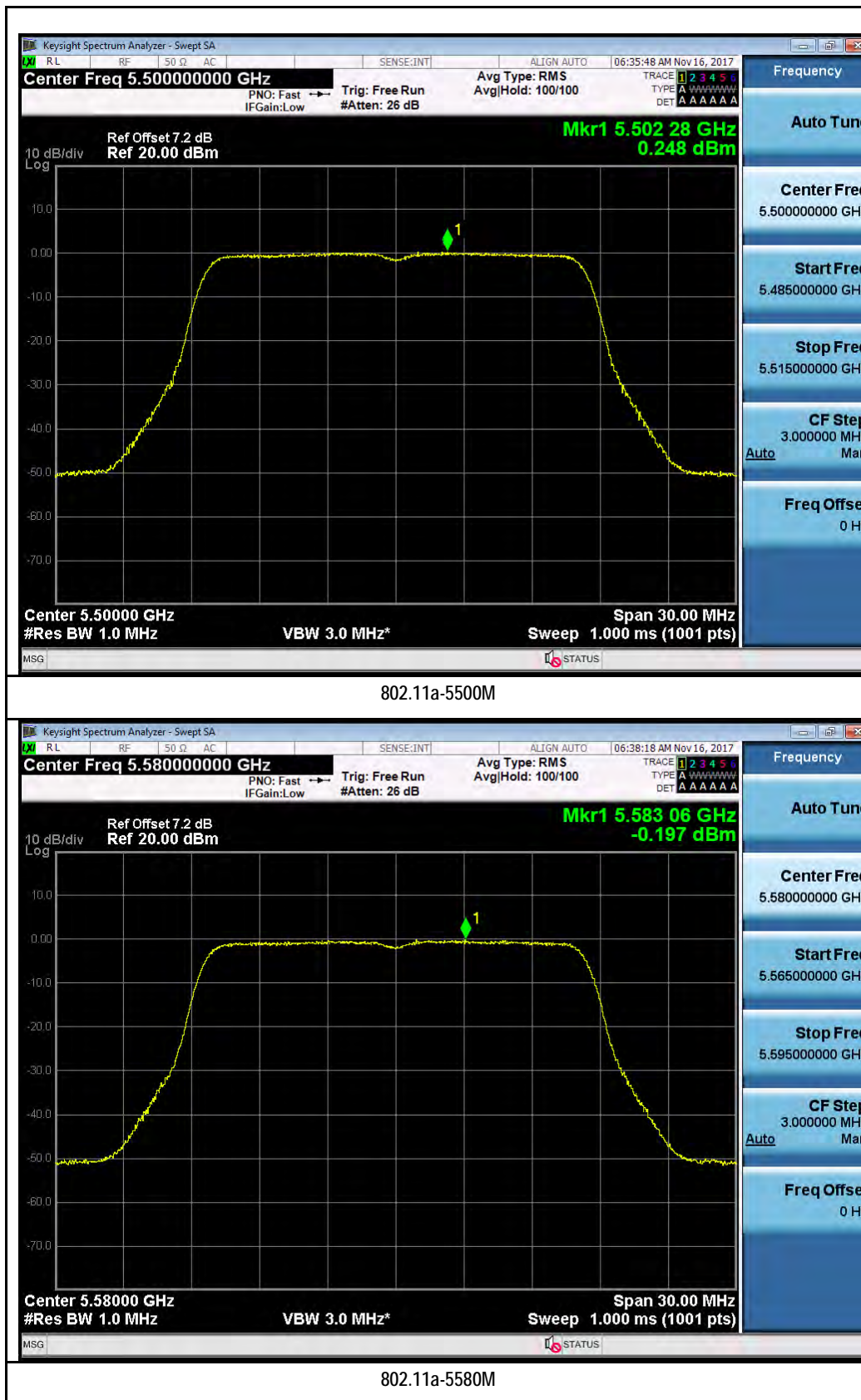


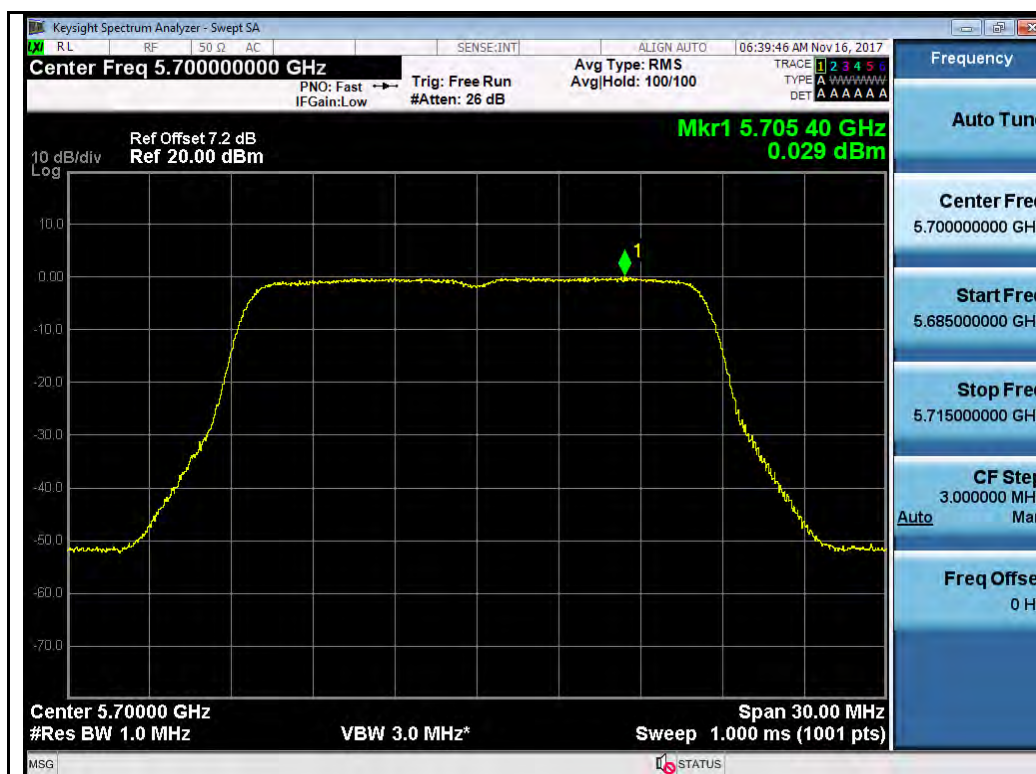
802.11n-HT40 5550M



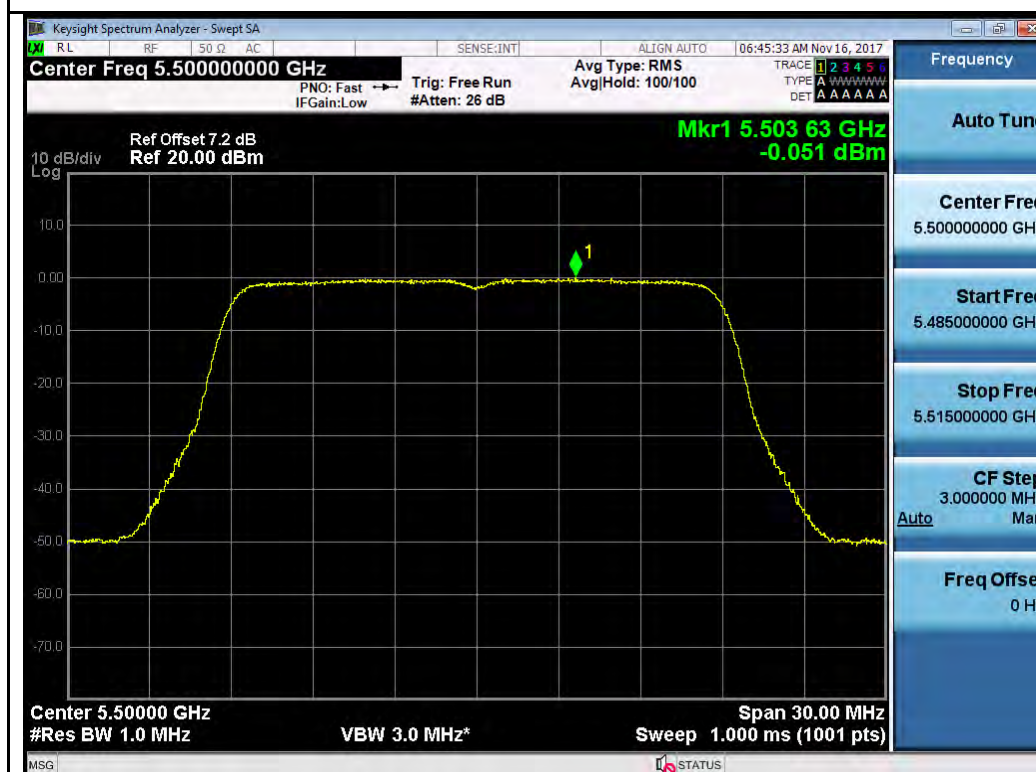


Chain 1:

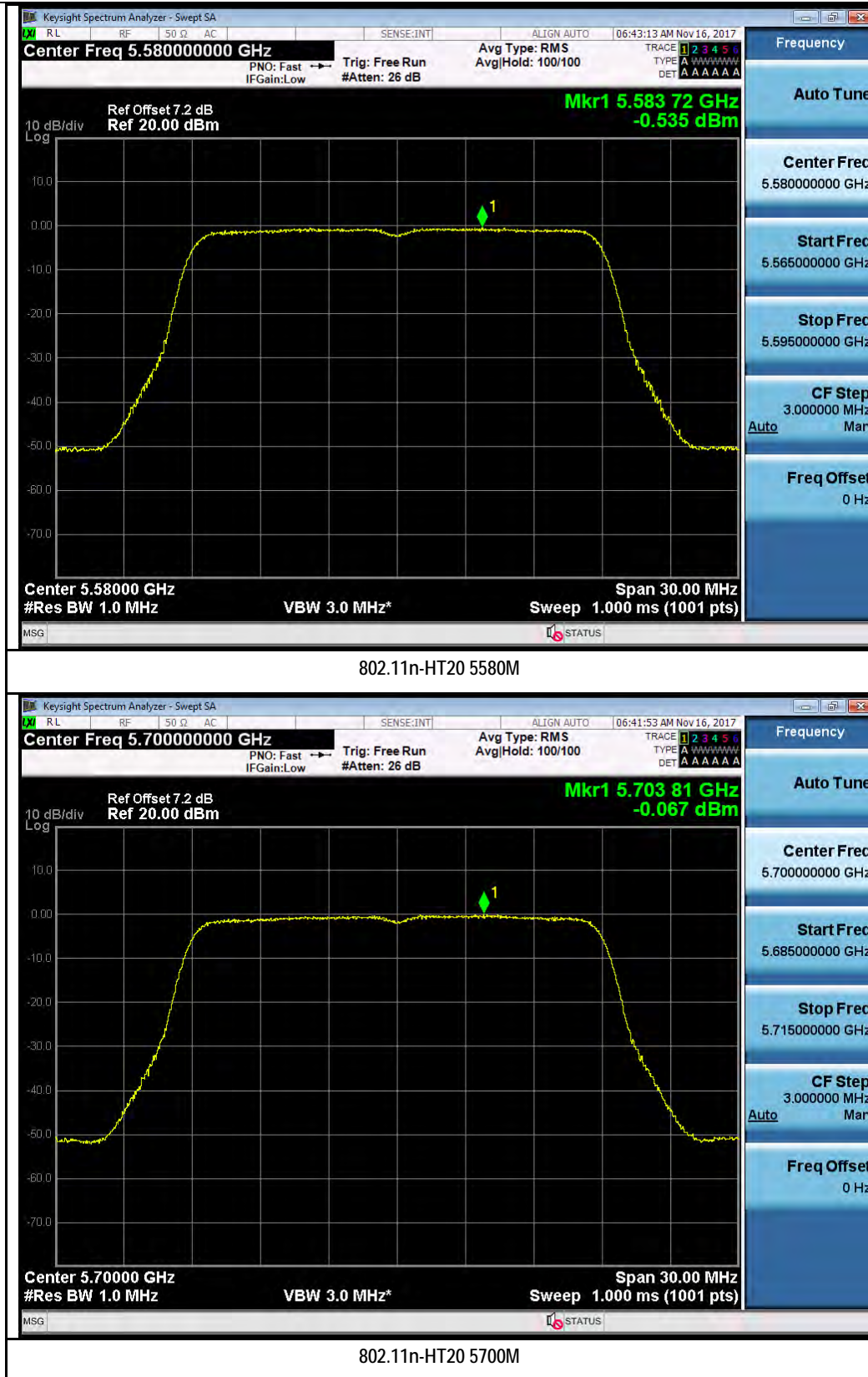




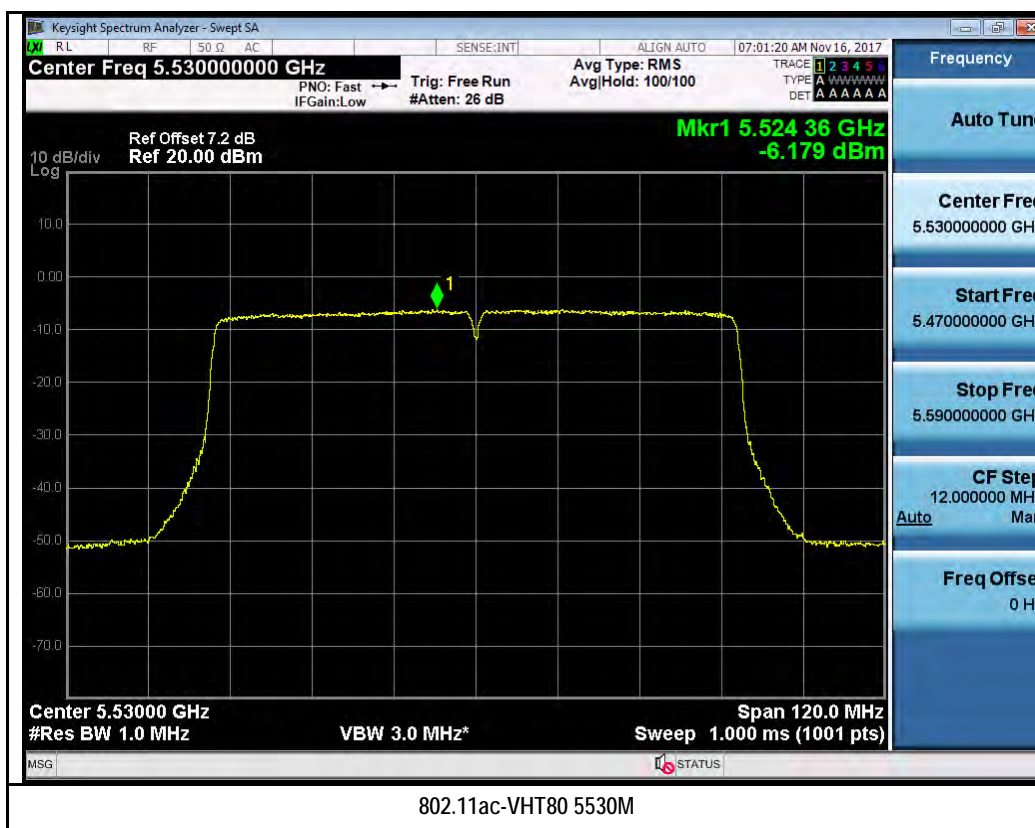
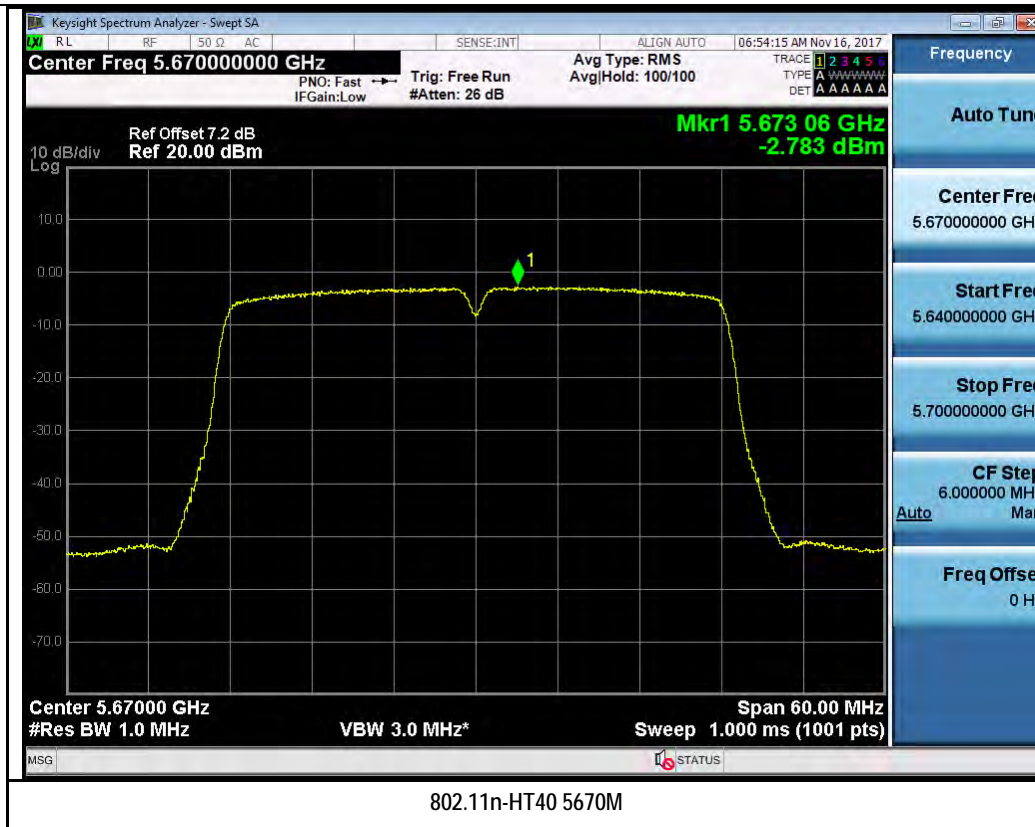
802.11a-5700M

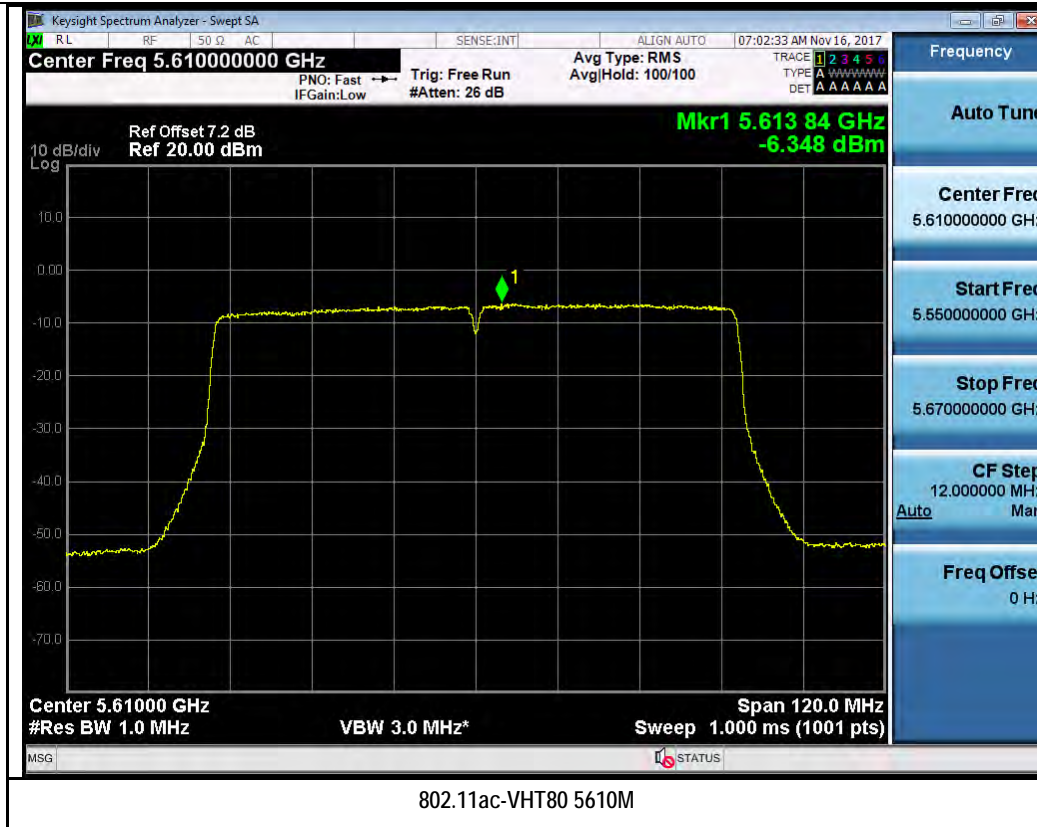


802.11n-HT20 5500M

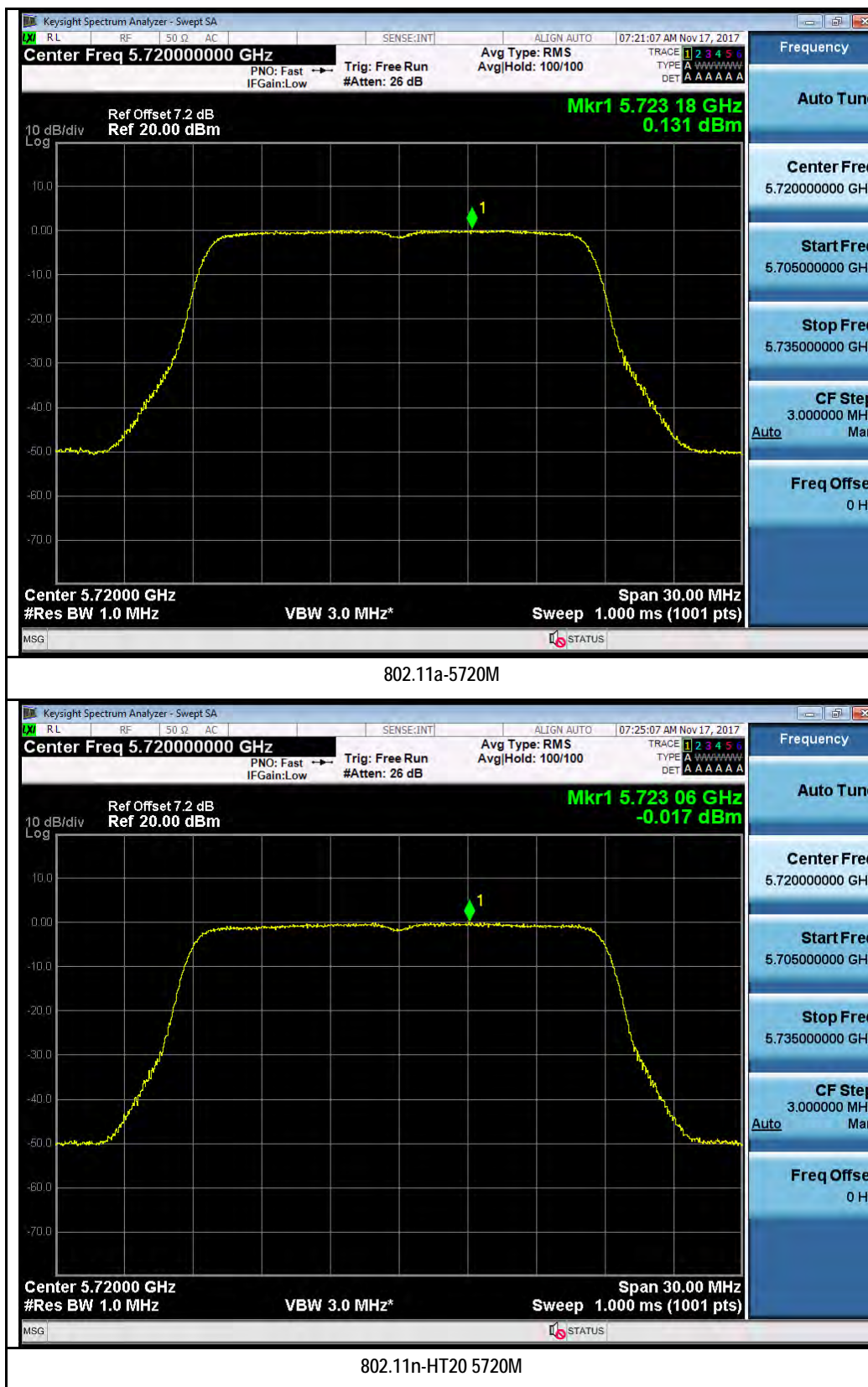


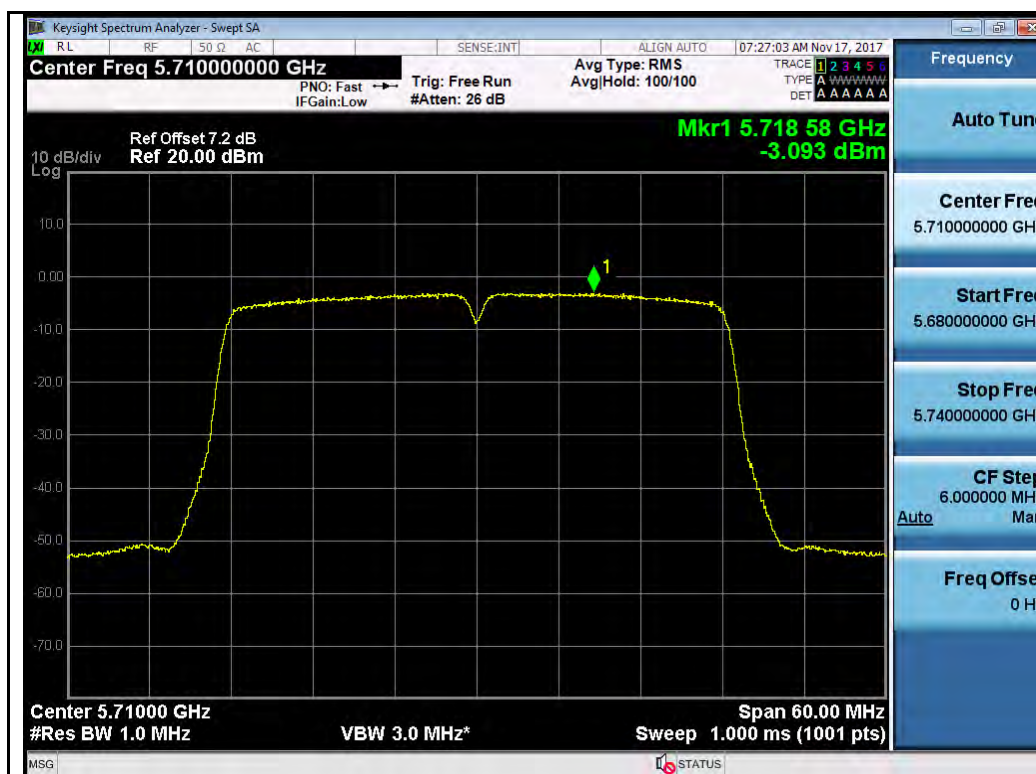




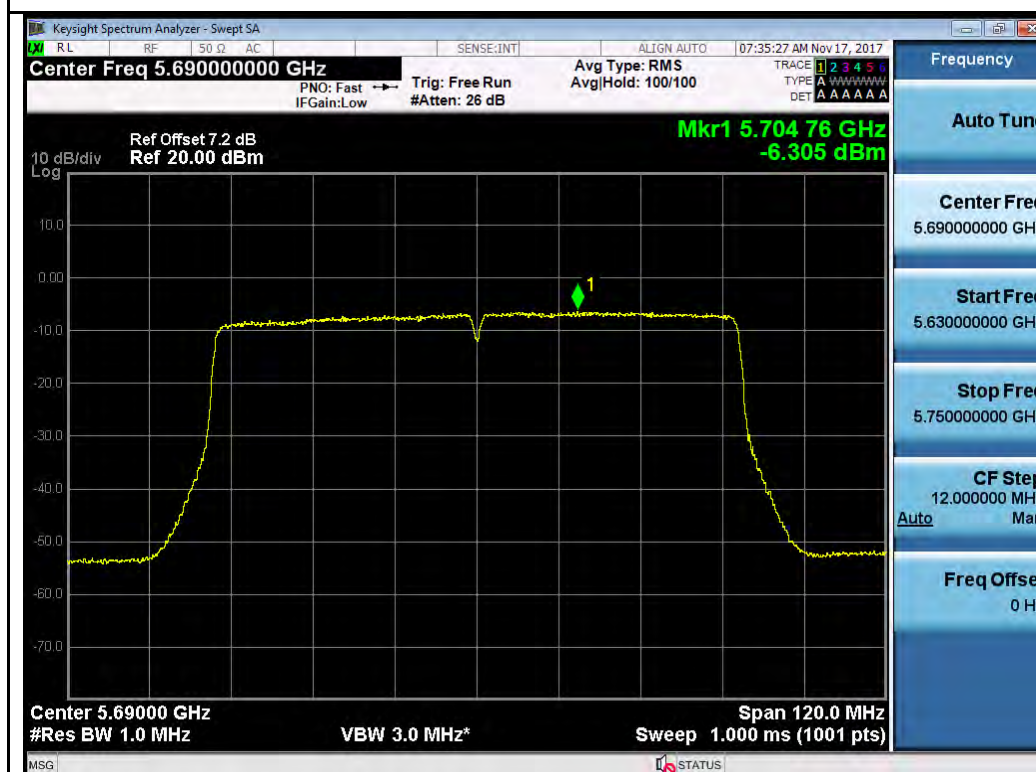


Test Plot for Crossband (W56 procedure):
Chain 0:



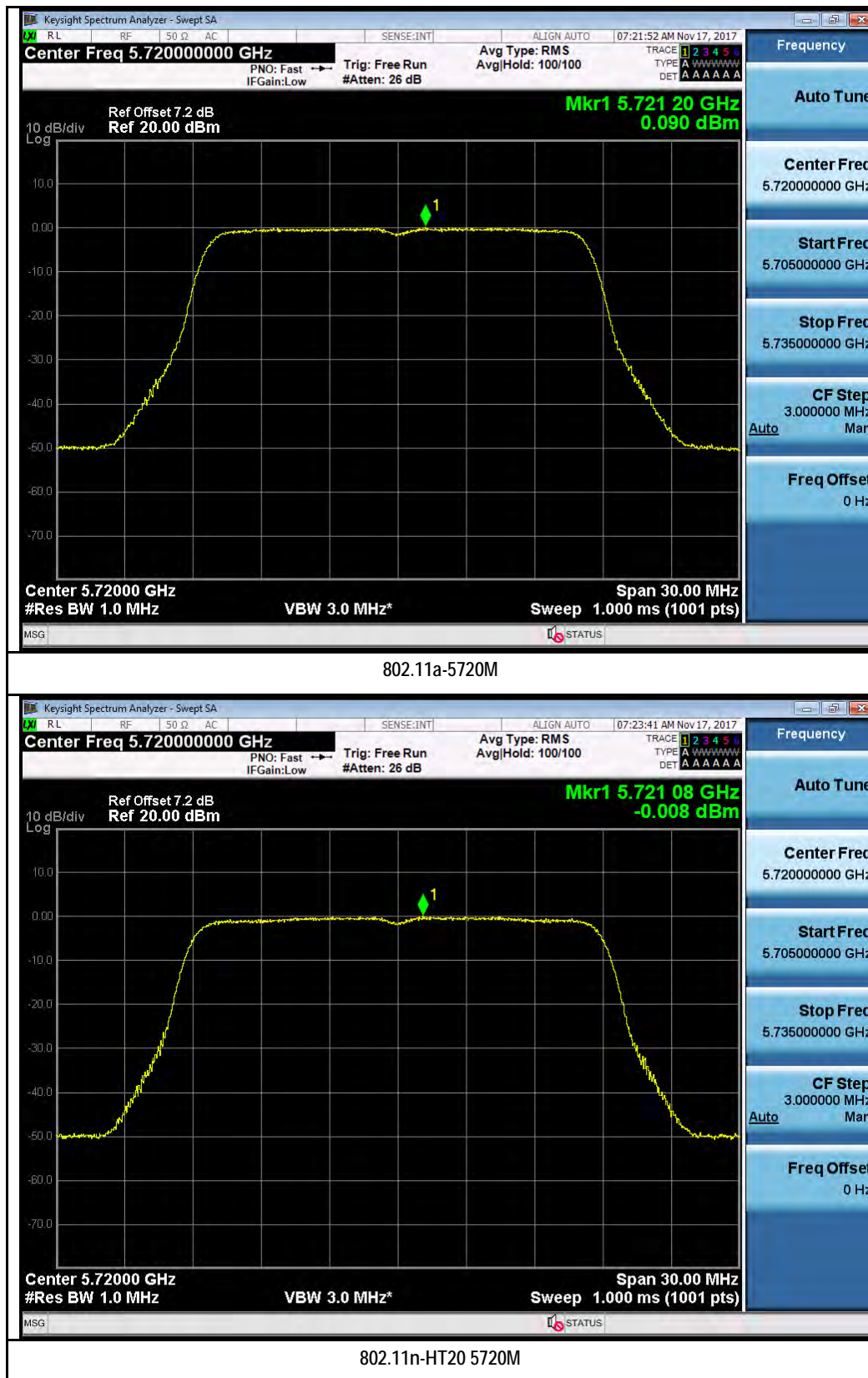


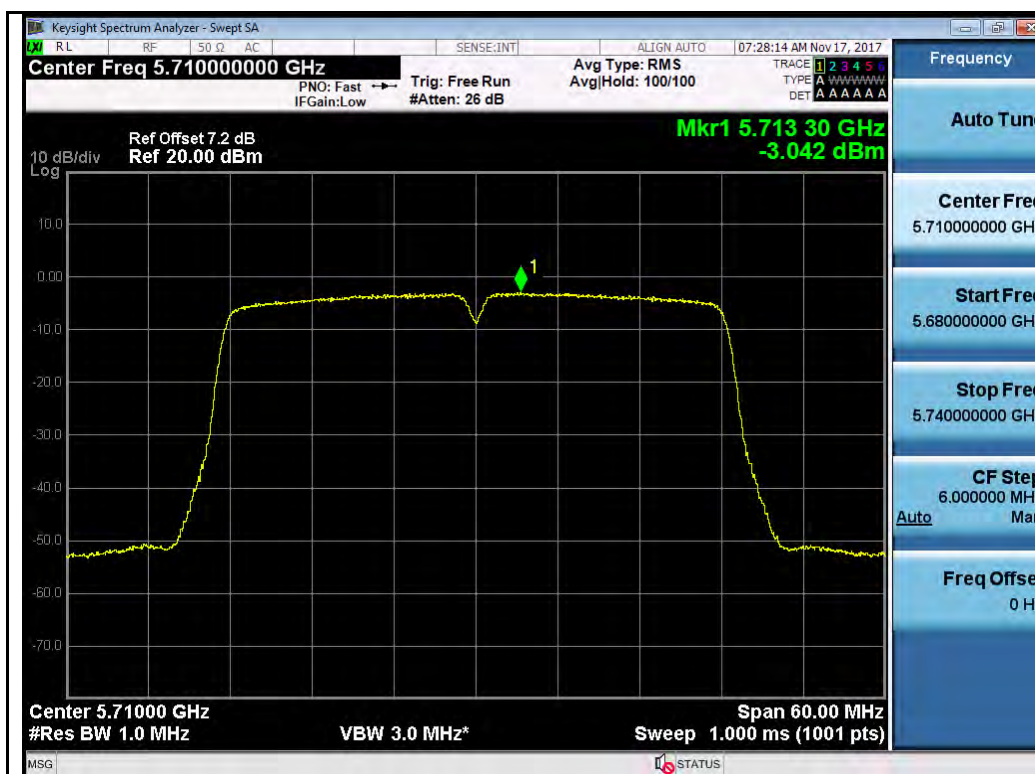
802.11n-HT40 5710M



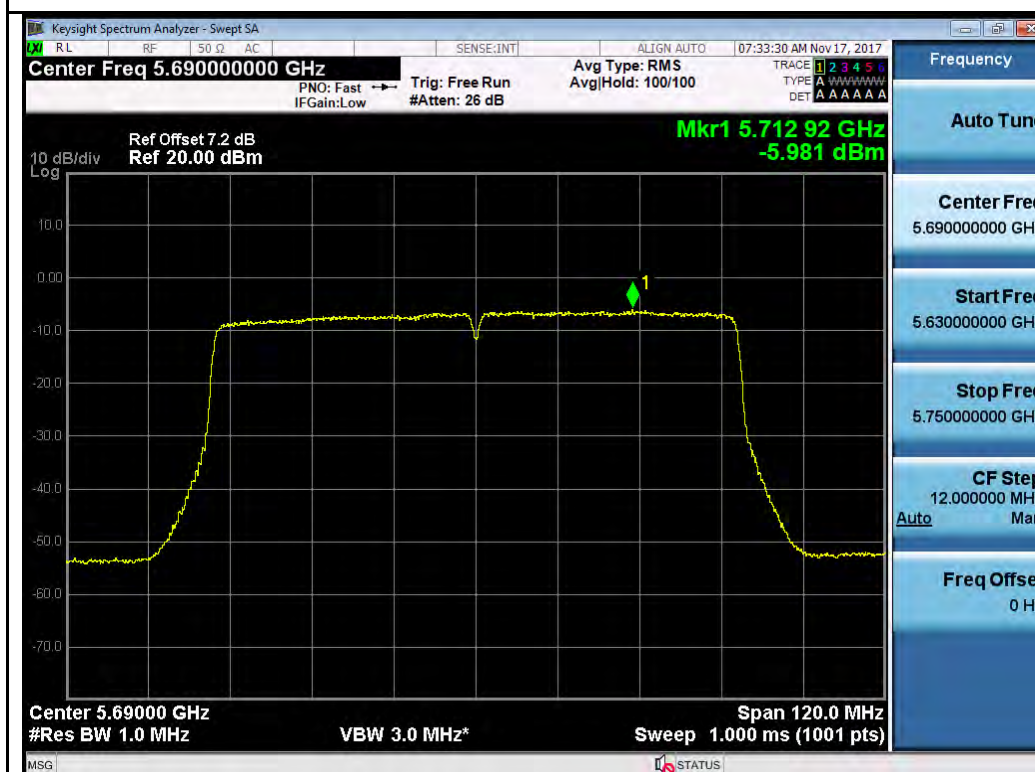
802.11ac-VHT80 5690M

Chain 1:



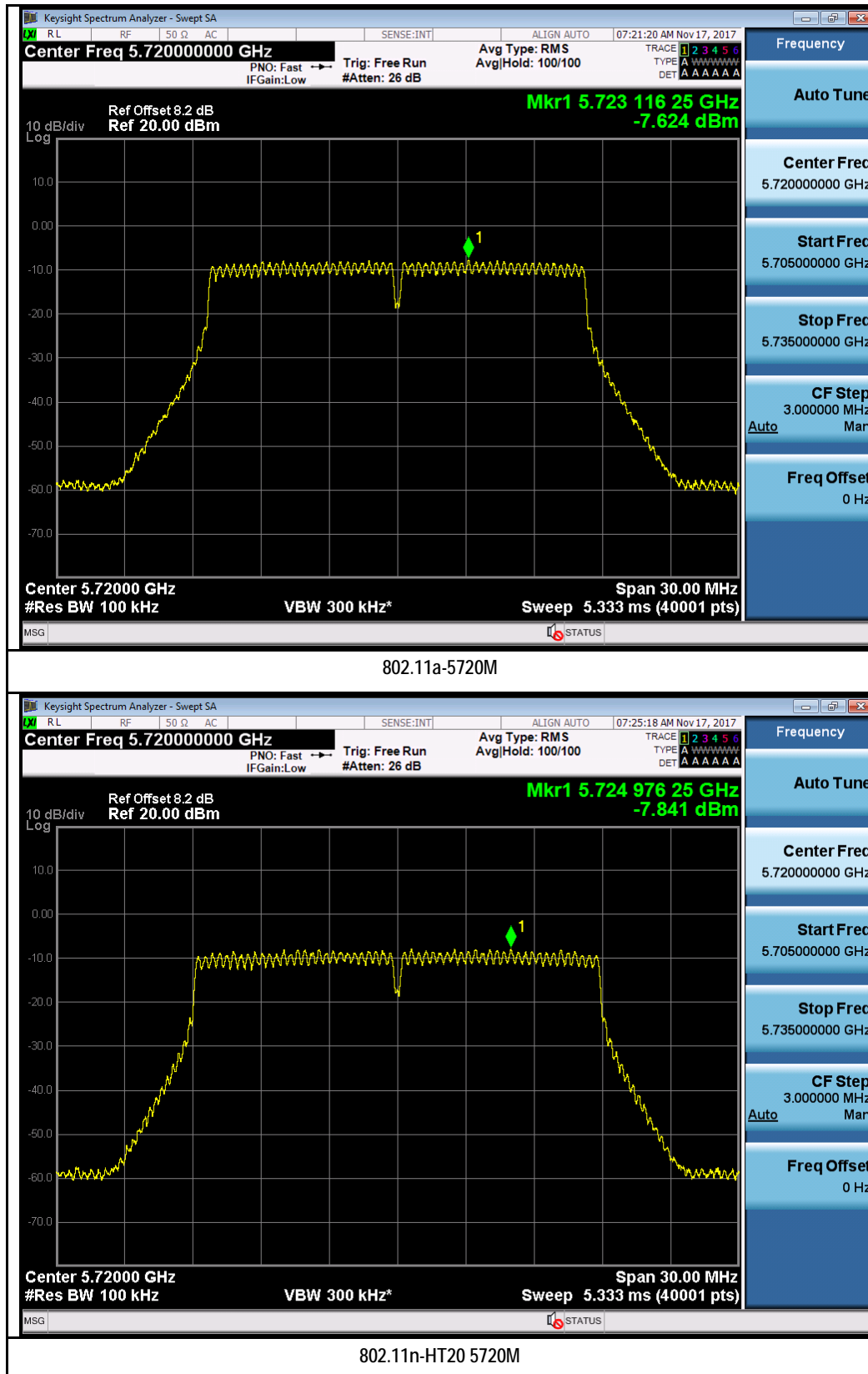


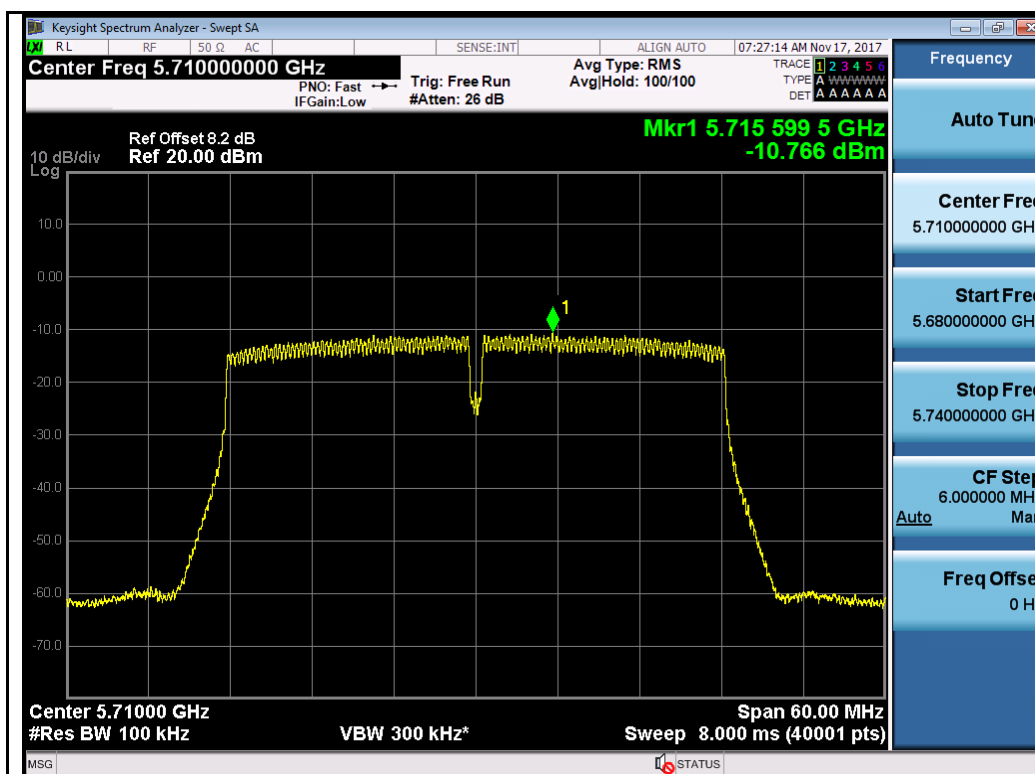
802.11n-HT40 5710M



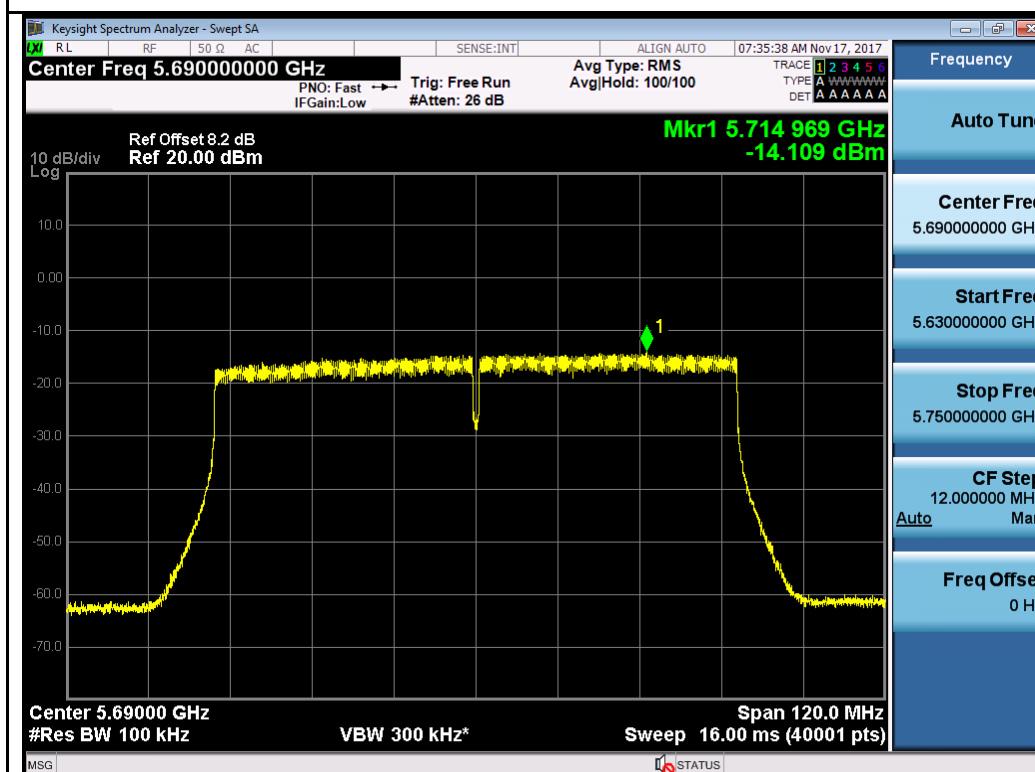
802.11ac-VHT80 5690M

Test Plot for Crossband (W58 procedure):
Chain 0:





802.11n-HT40 5710M



802.11ac-VHT80 5690M

Chain 1:

