

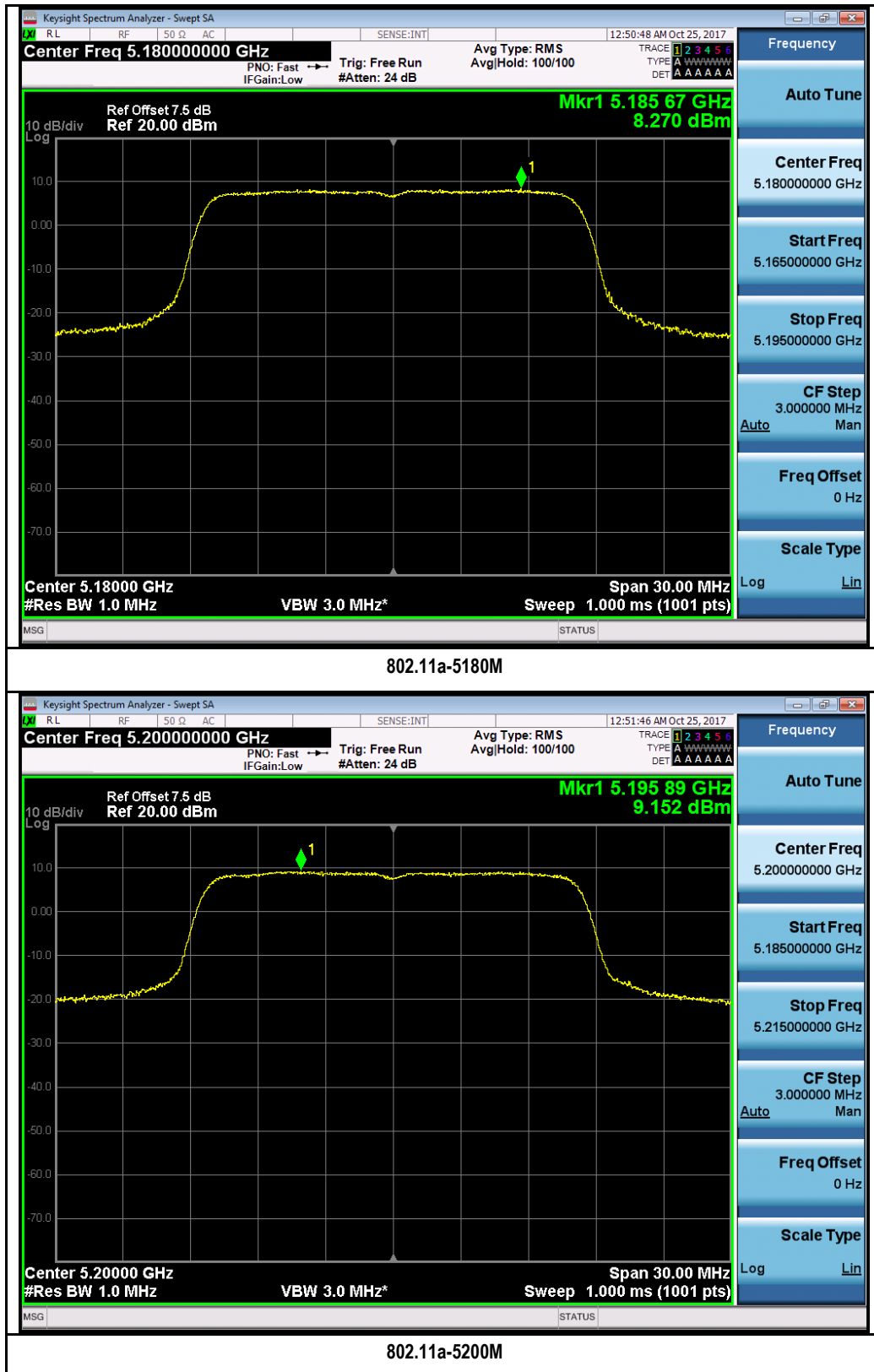
PSD measurement result

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/MHz)			Limit (dBm/MHz)	Result
				Chain 0	Chain 1	Combined PSD		
PSD	802.11a	5180	Low	8.280	8.370	11.336	17	Pass
		5200	Mid	9.186	9.290	12.249	17	Pass
		5240	High	9.300	9.341	12.331	17	Pass
	802.11n-20	5180	Low	8.256	8.054	11.166	17	Pass
		5200	Mid	9.274	9.037	12.167	17	Pass
		5240	High	9.126	9.206	12.176	17	Pass
	802.11n-40	5190	Low	4.605	4.516	7.571	17	Pass
		5230	High	6.640	6.822	9.742	17	Pass
	802.11ac-80	5210	-	0.512	0.366	3.450	17	Pass

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/100kHz)			Combined PSD(dBm/500kHz)	Limit (dBm/500k Hz)	Result
				Chain 0	Chain 1	correction factor (dB)			
PSD	802.11a	5745	Low	1.834	1.769	6.99	11.802	30	Pass
		5785	Mid	1.676	1.683	6.99	11.680	30	Pass
		5825	High	1.880	1.627	6.99	11.756	30	Pass
	802.11n-20	5745	Low	1.468	1.276	6.99	11.373	30	Pass
		5785	Mid	1.183	1.302	6.99	11.243	30	Pass
		5825	High	1.471	1.264	6.99	11.369	30	Pass
	802.11n-40	5755	Low	-0.934	-0.784	6.99	9.142	30	Pass
		5795	High	-1.003	-0.977	6.99	9.010	30	Pass
	802.11ac-80	5775	Mid	-4.629	-4.883	6.99	5.246	30	Pass
Note	BW correction factor = 10log(500kHz/RBW), RBW was set to 100kHz during test.								

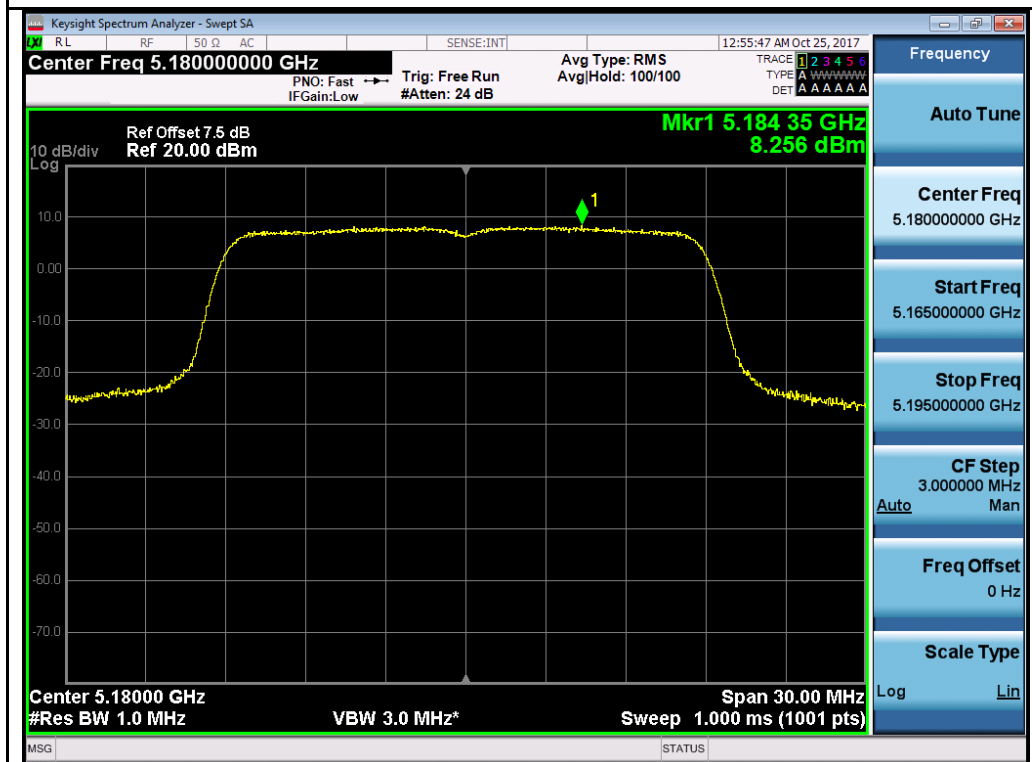
Test Plot for W52:

Chain 0:

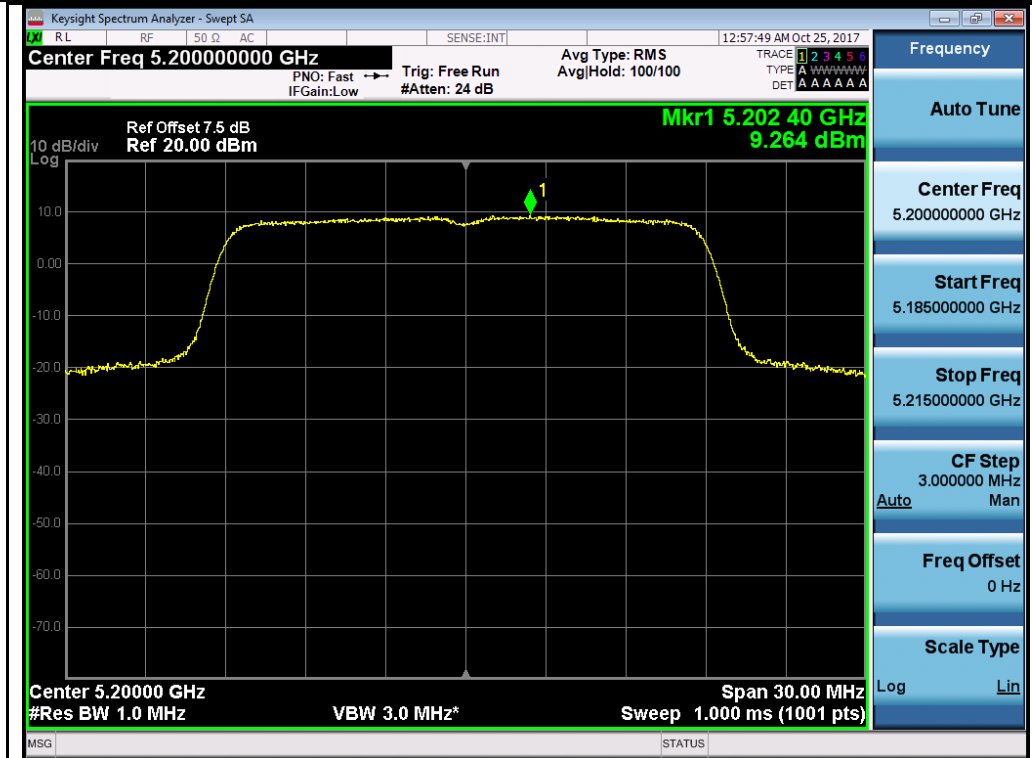




802.11a-5240M



802.11n-HT20 5180M



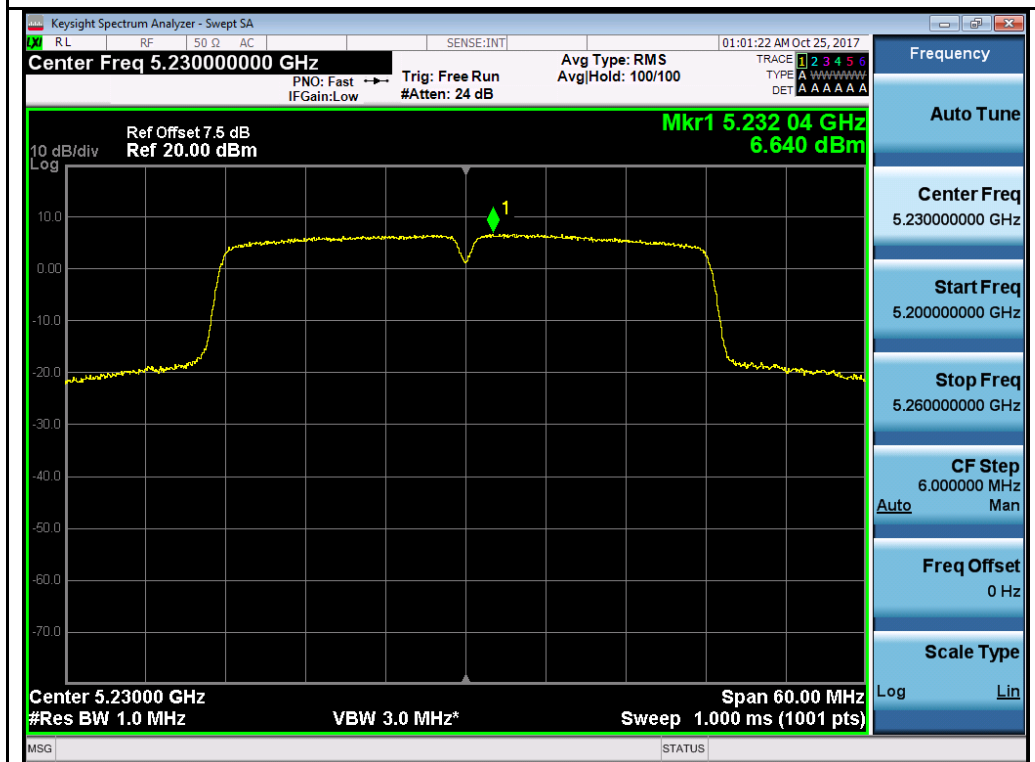
802.11n-HT20 5200M



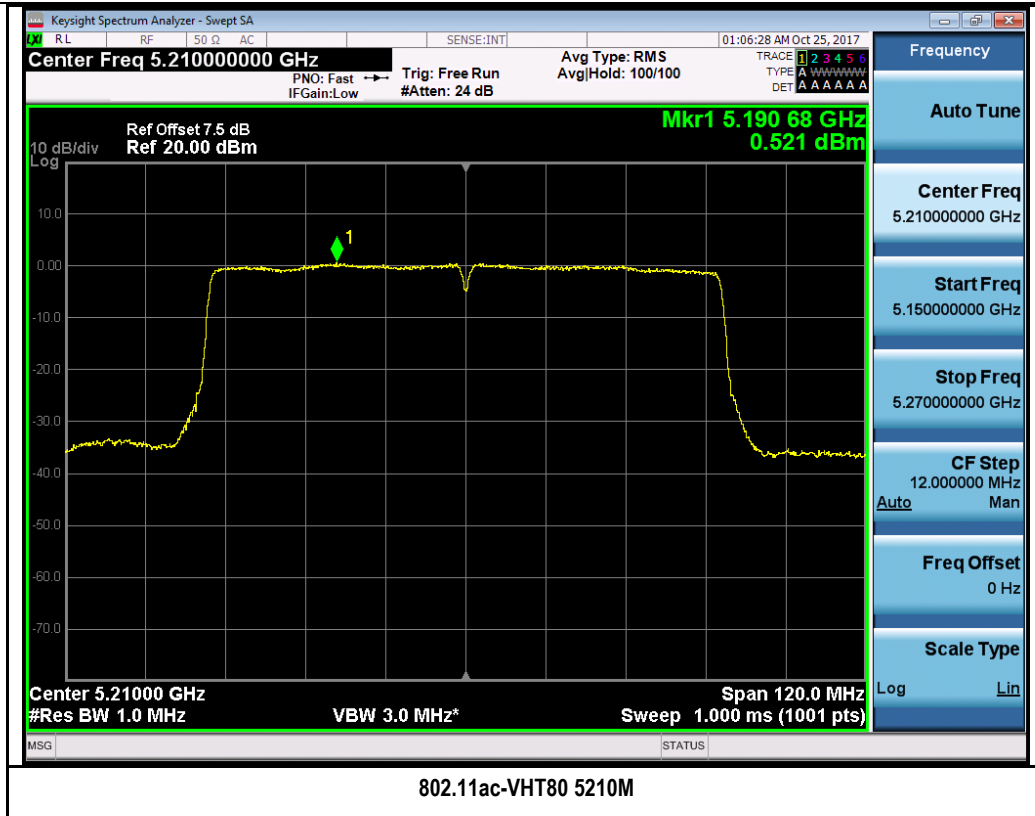
802.11n-HT20 5240M



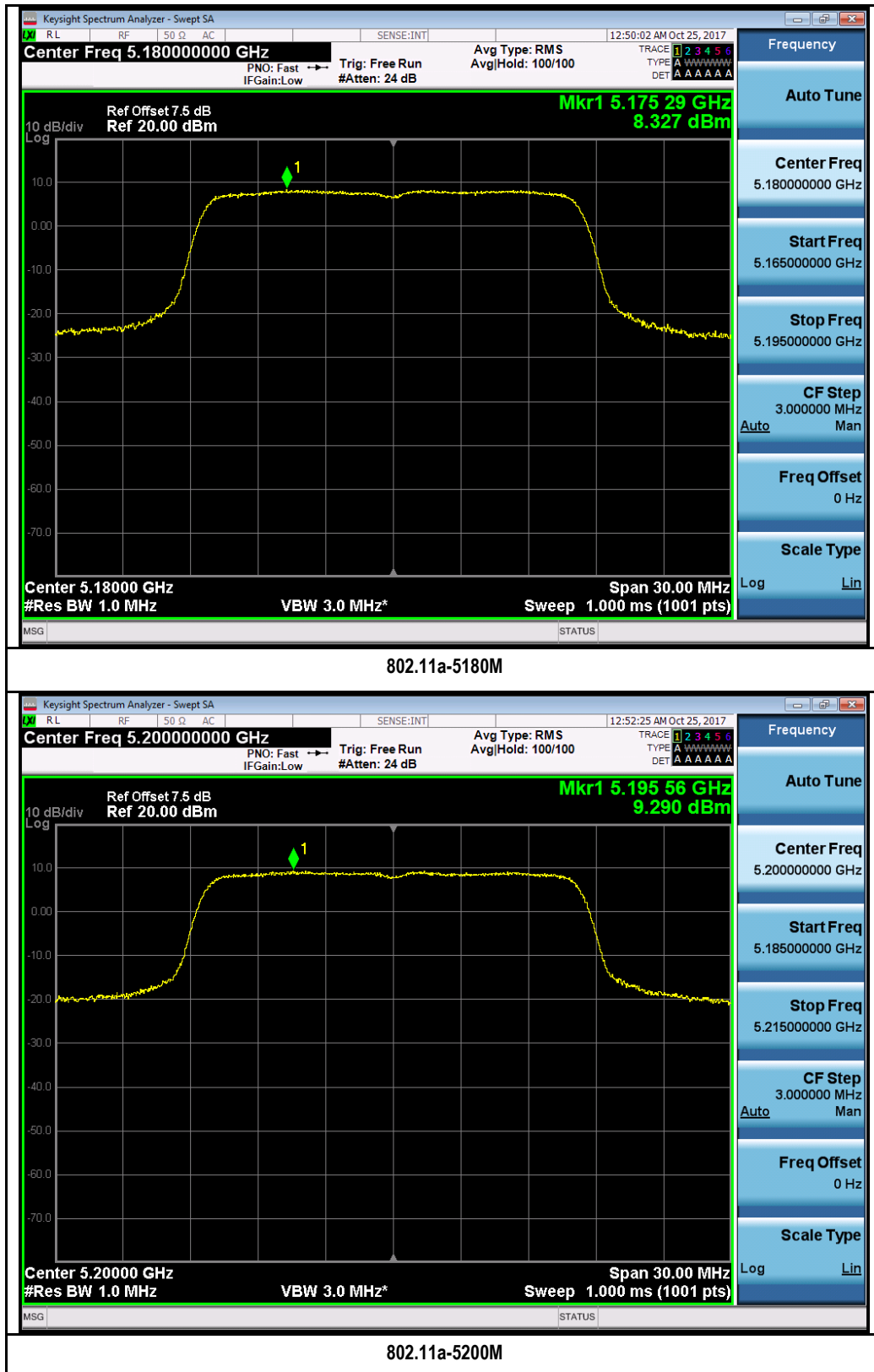
802.11n-HT40 5190M

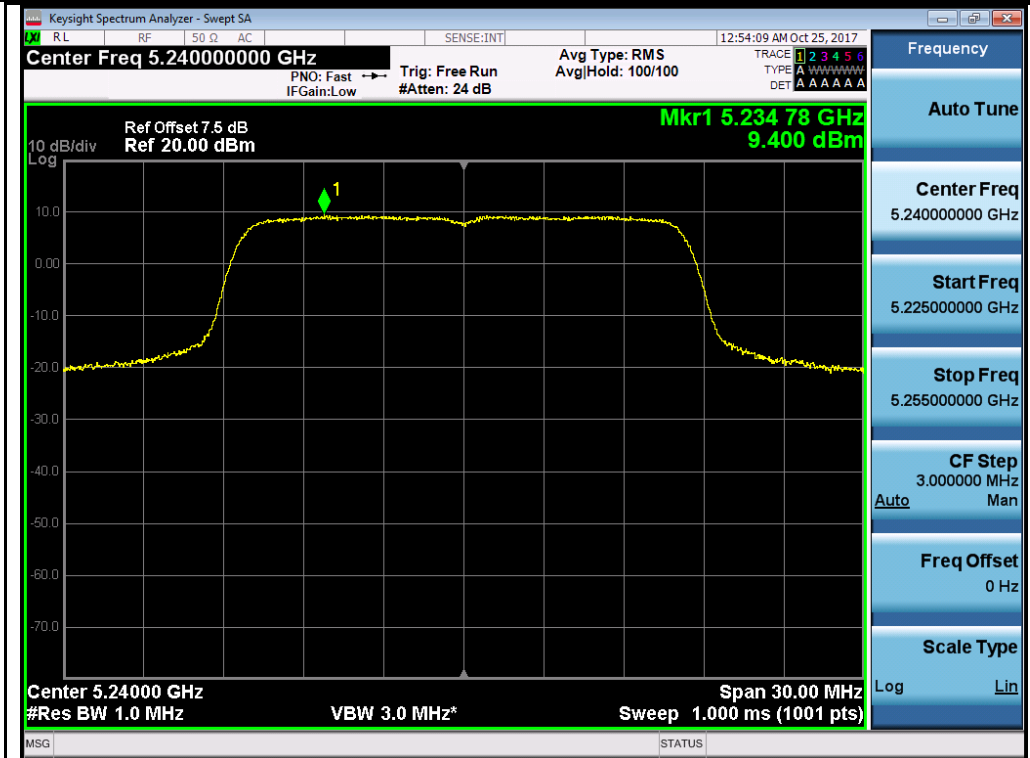


802.11n-HT40 5230M

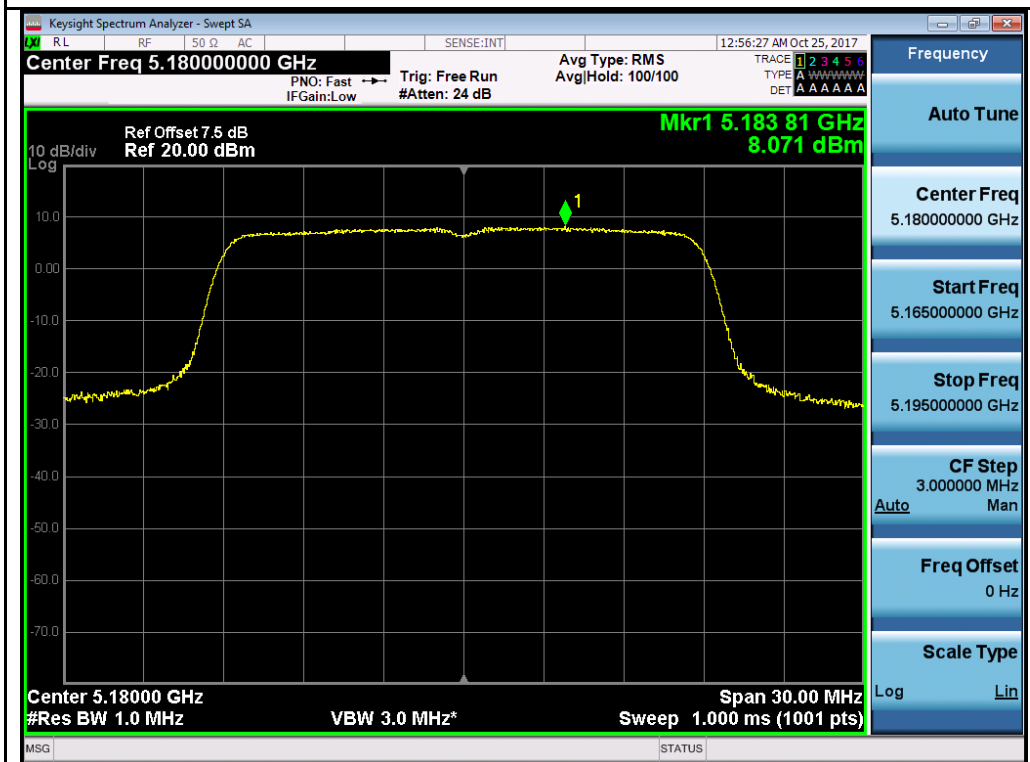


Chain 1:

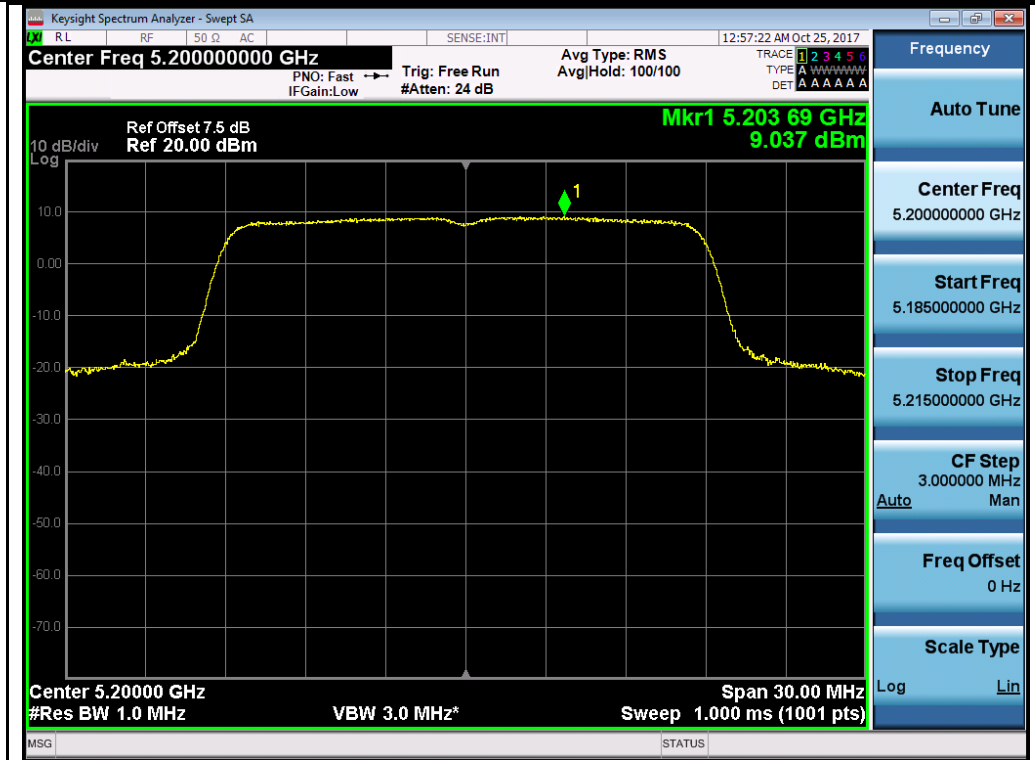




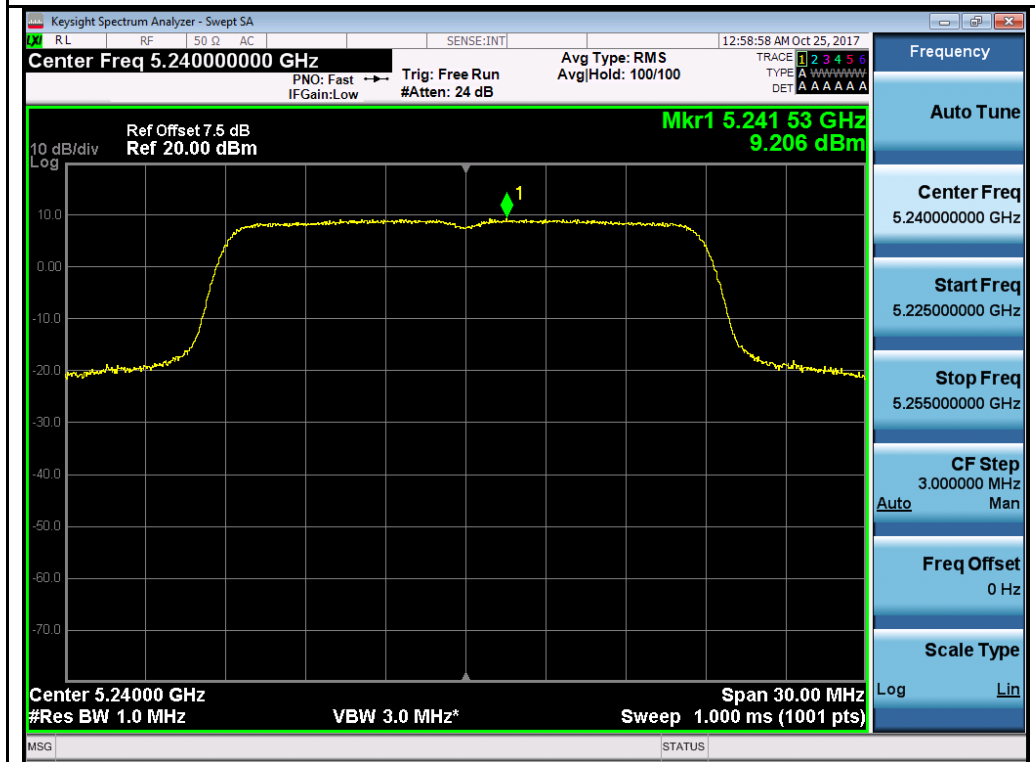
802.11a-5240M



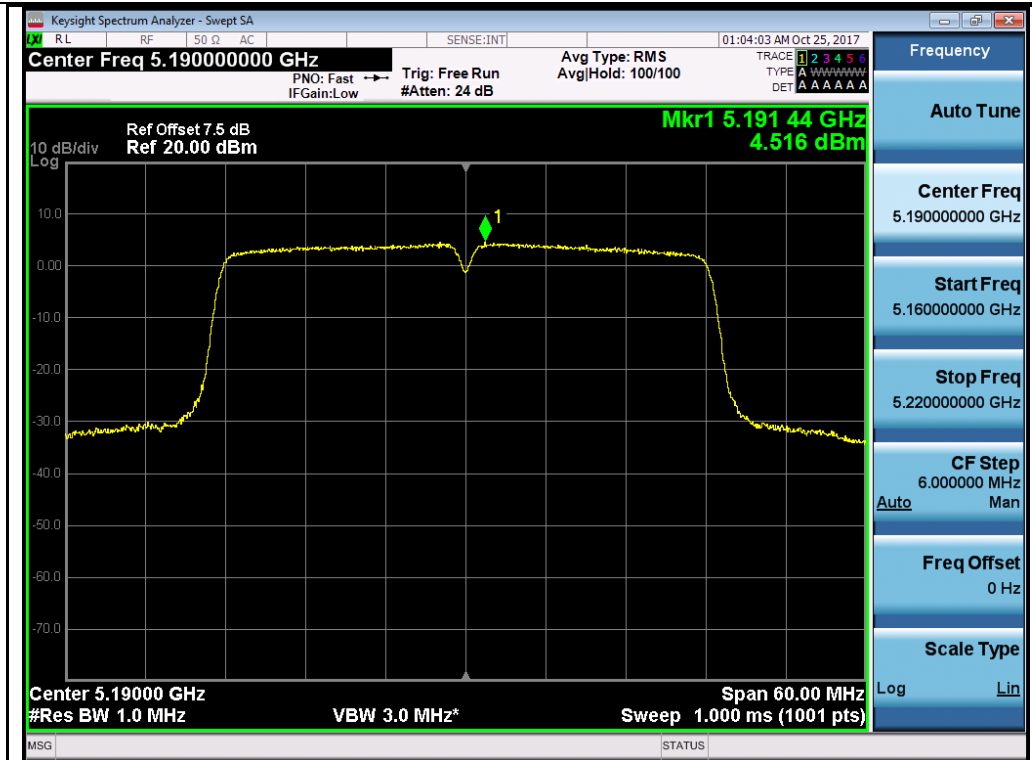
802.11n-HT20 5180M



802.11n-HT20 5200M



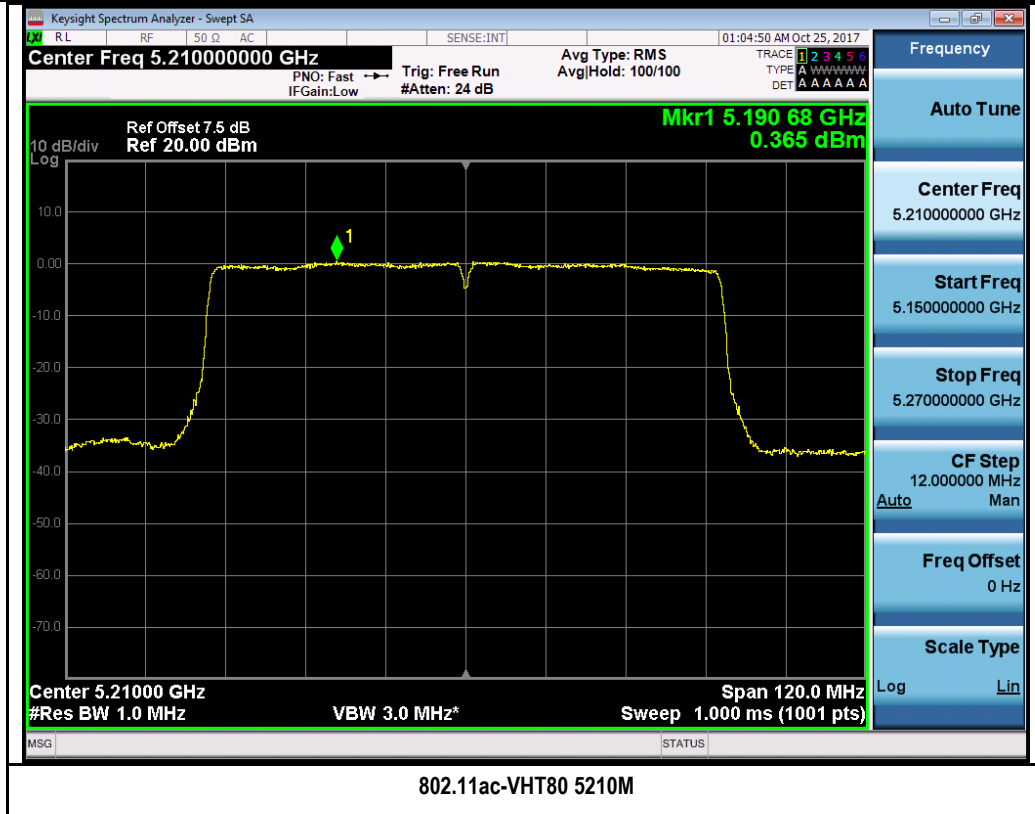
802.11n-HT20 5240M



802.11n-HT40 5190M

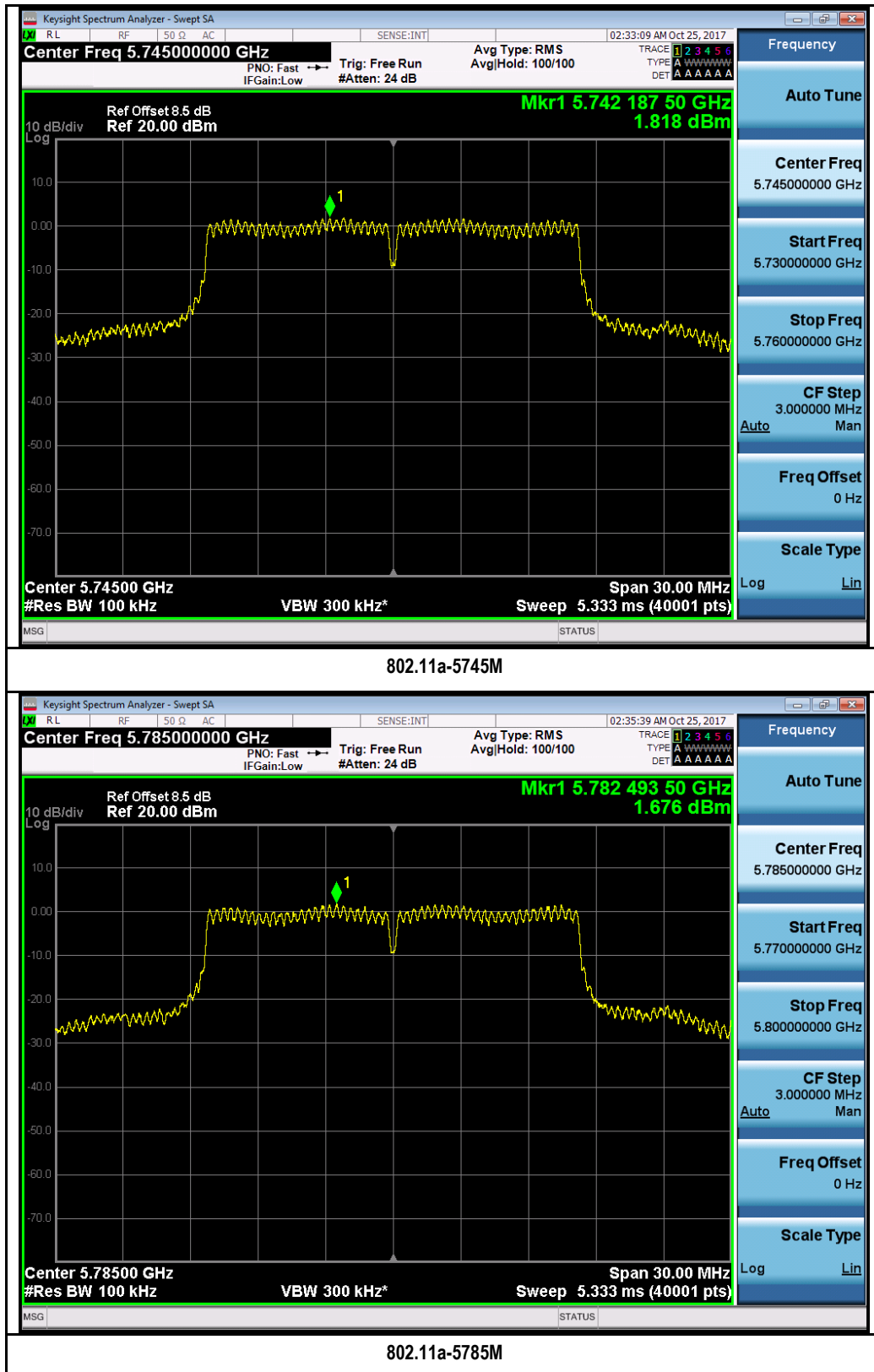


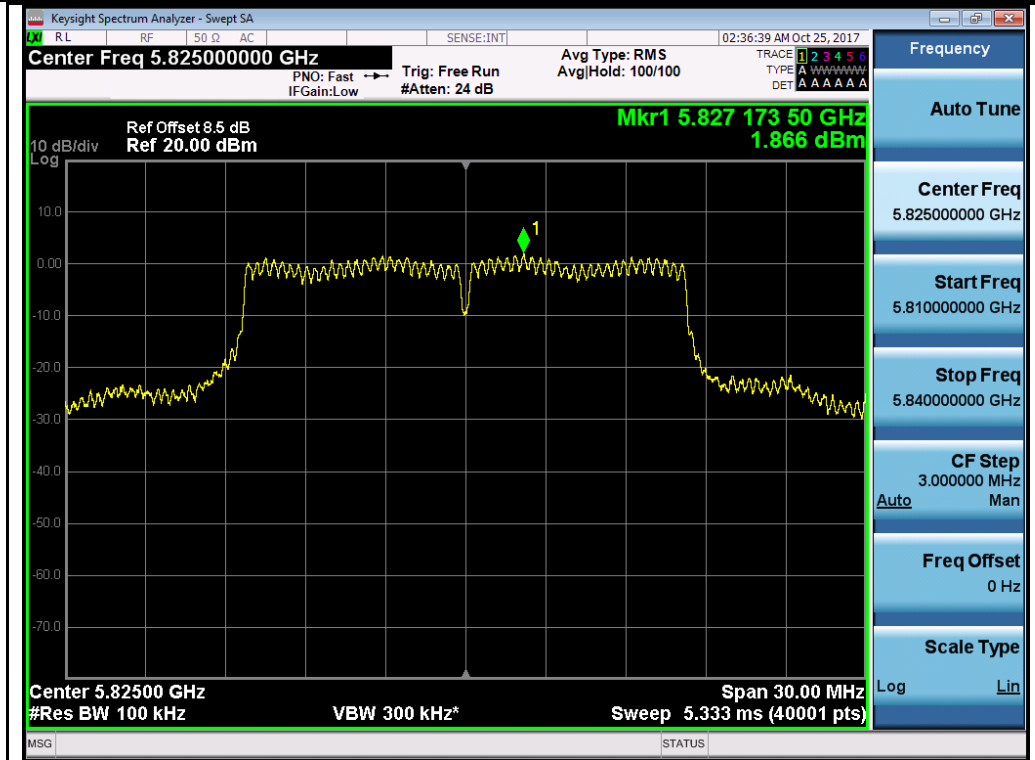
802.11n-HT40 5230M



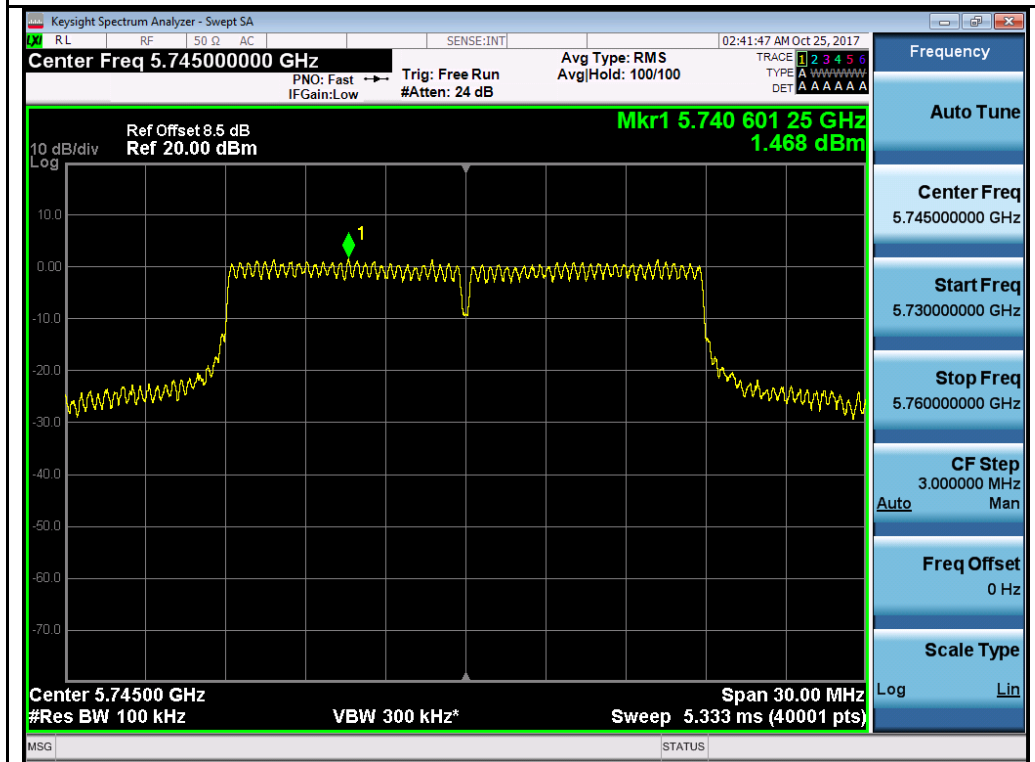
Test Plot for W58:

Chain 0:

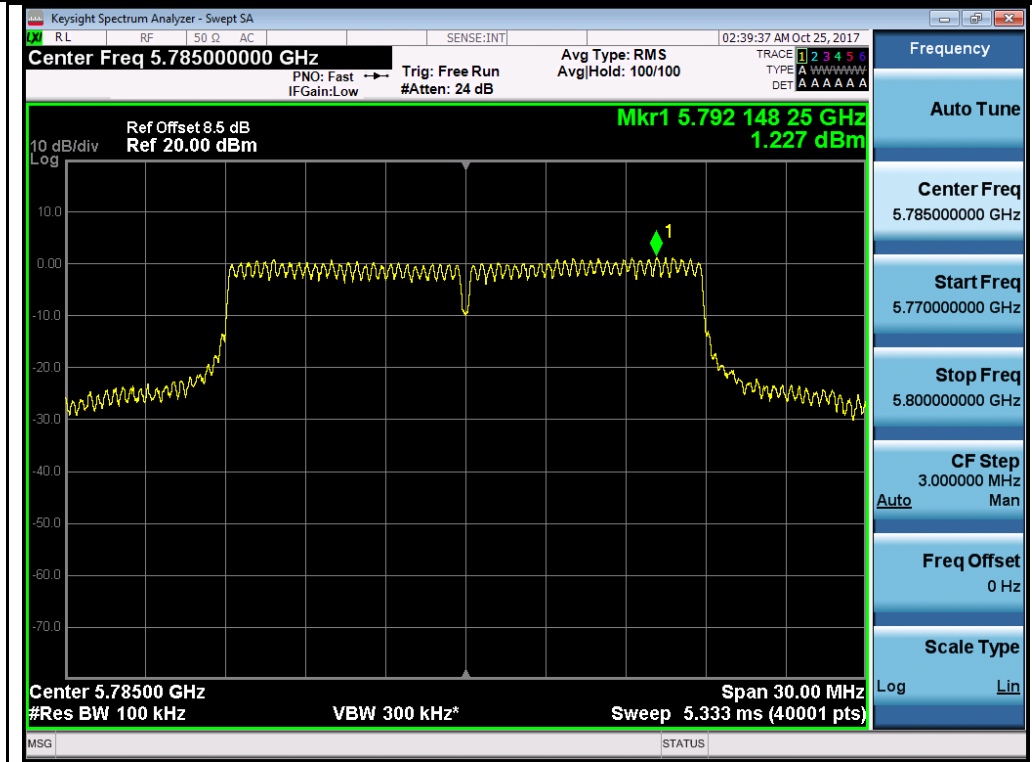




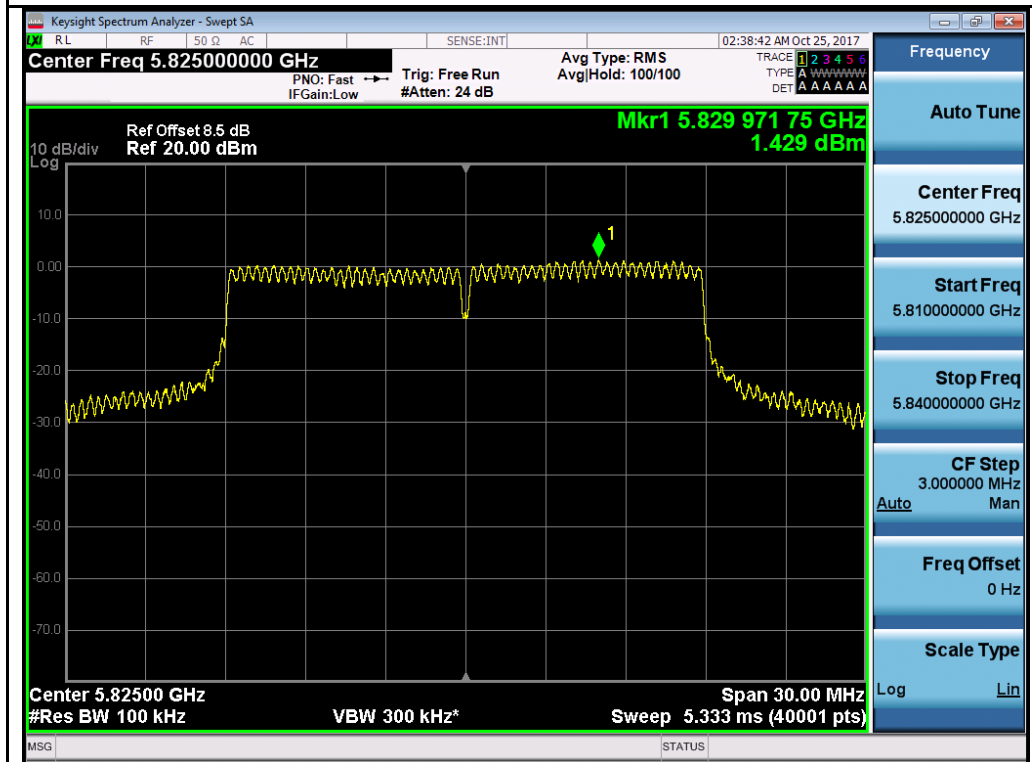
802.11a-5825M



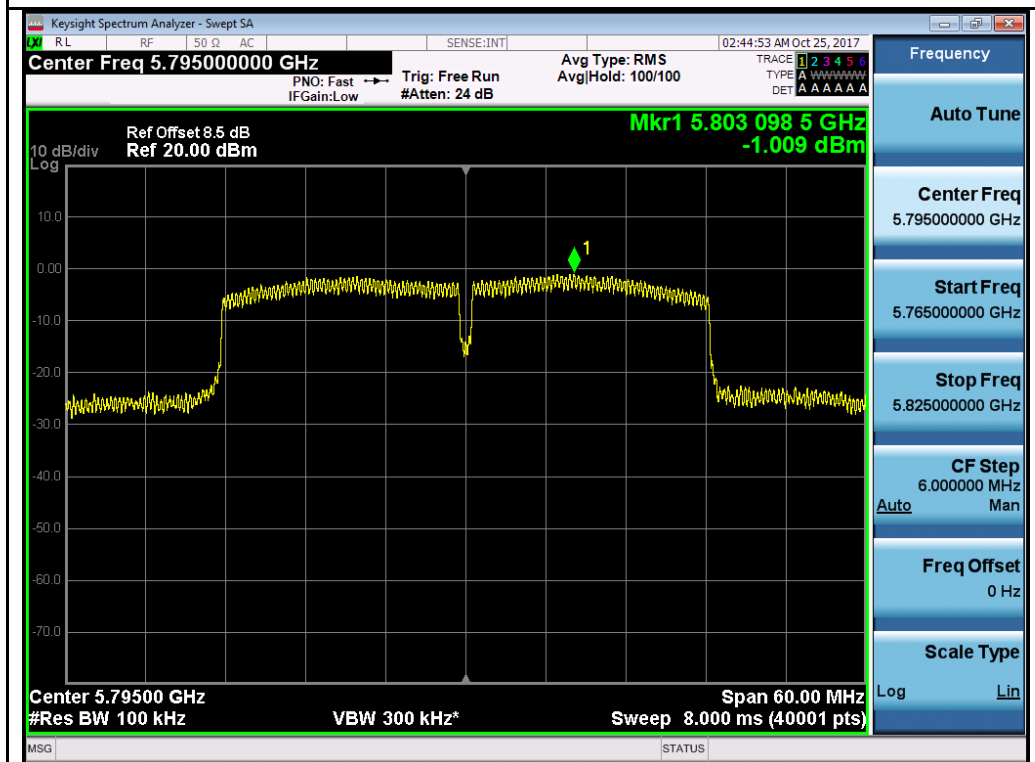
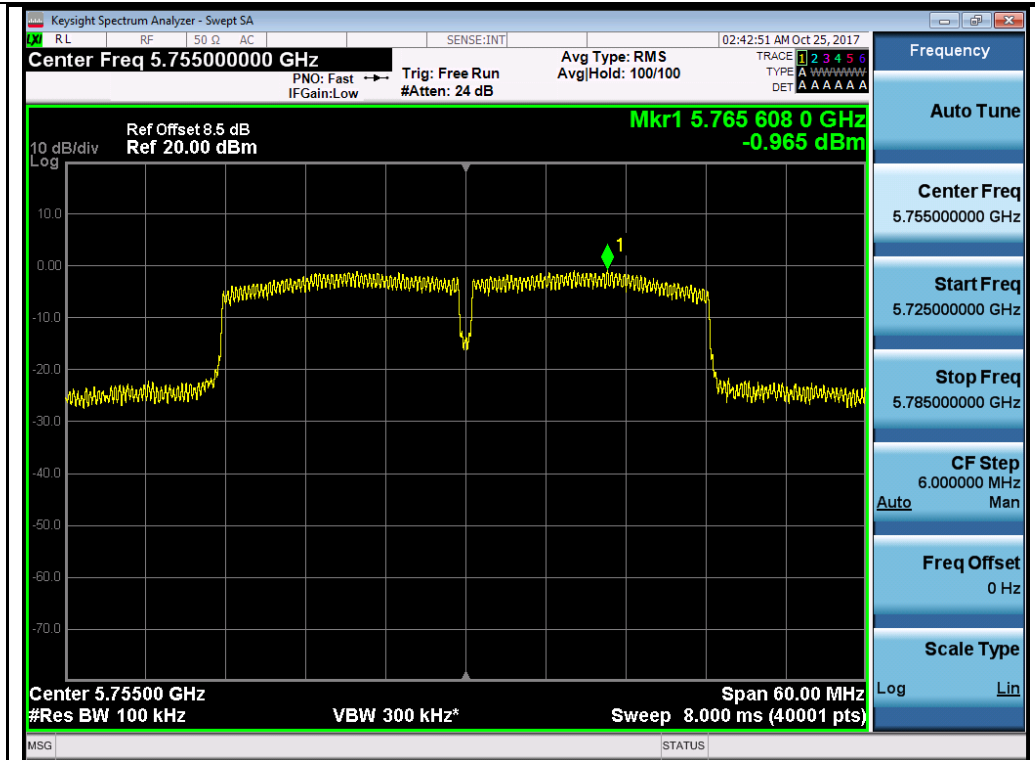
802.11n-HT20 5745M

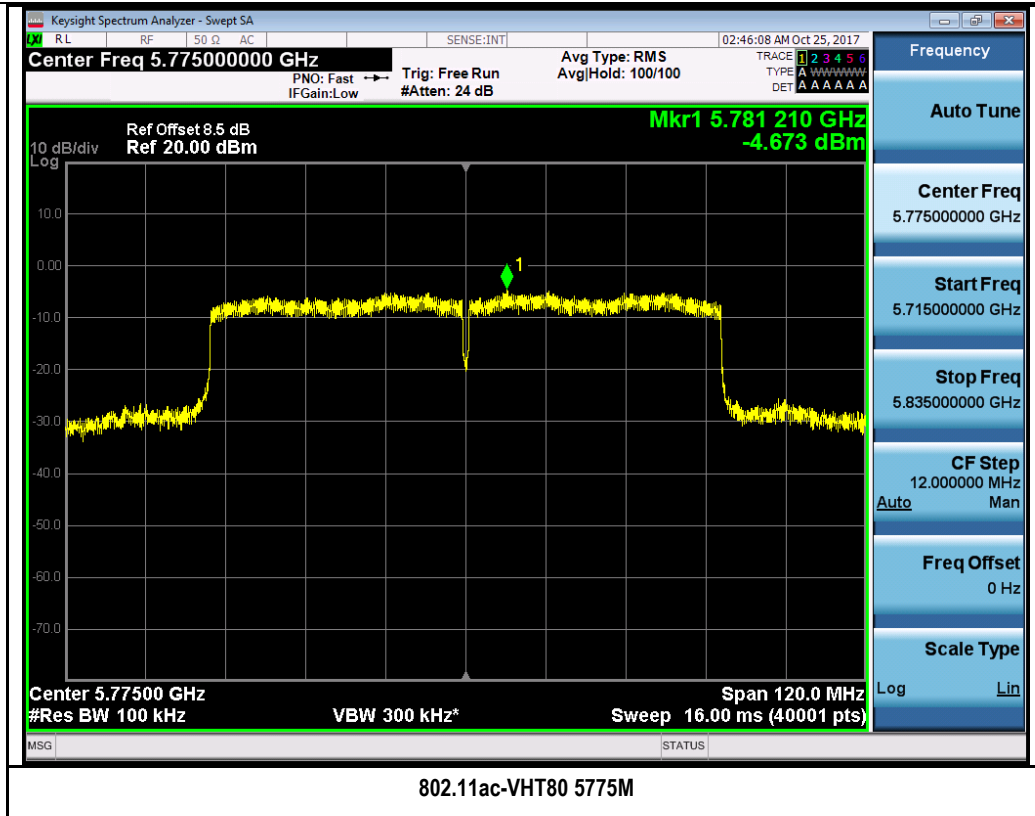


802.11n-HT20 5785M

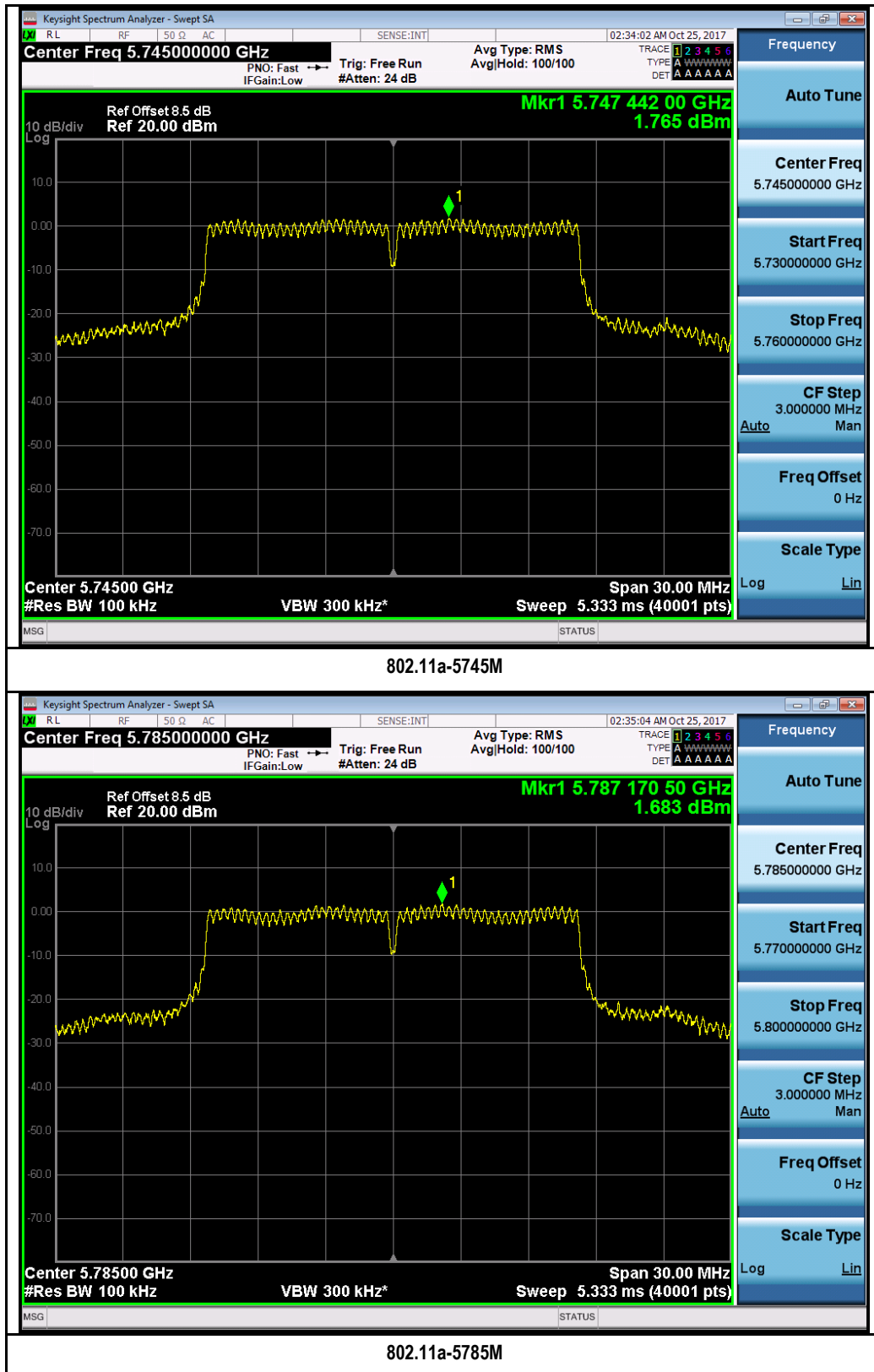


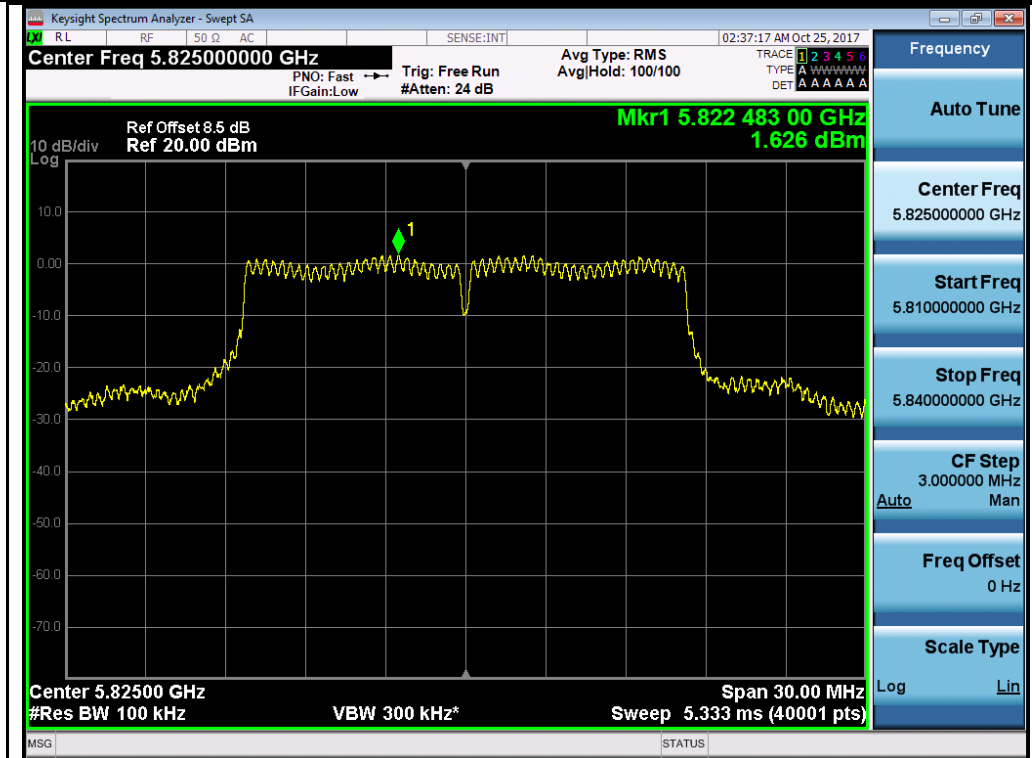
802.11n-HT20 5825M



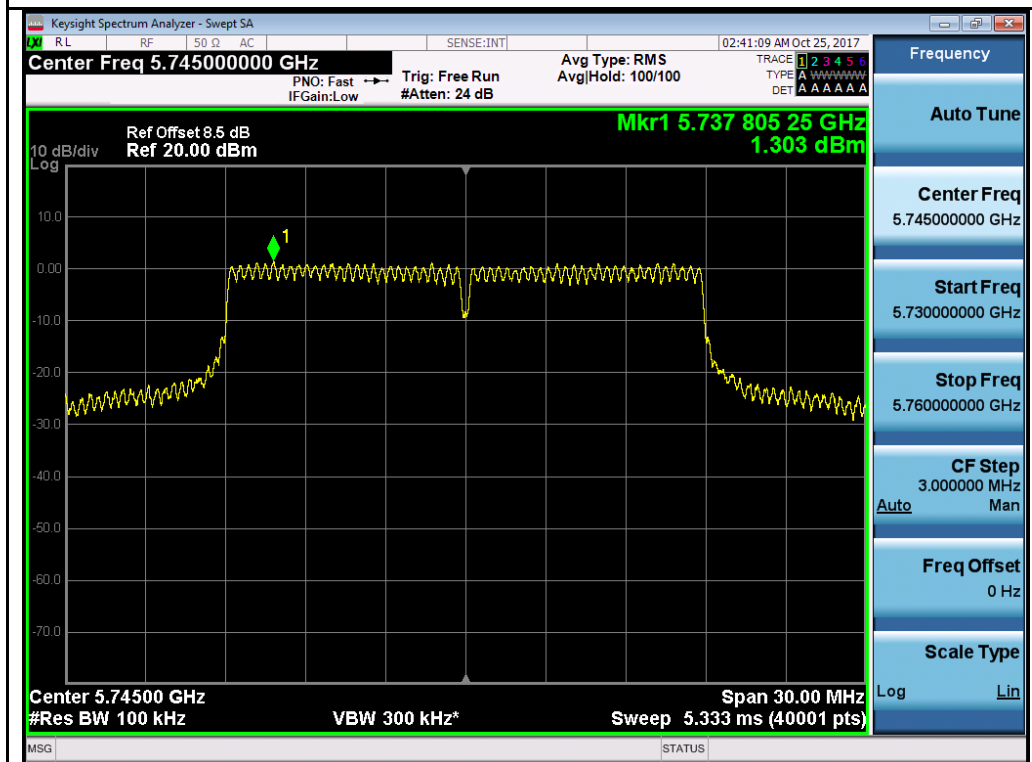


Chain 1:

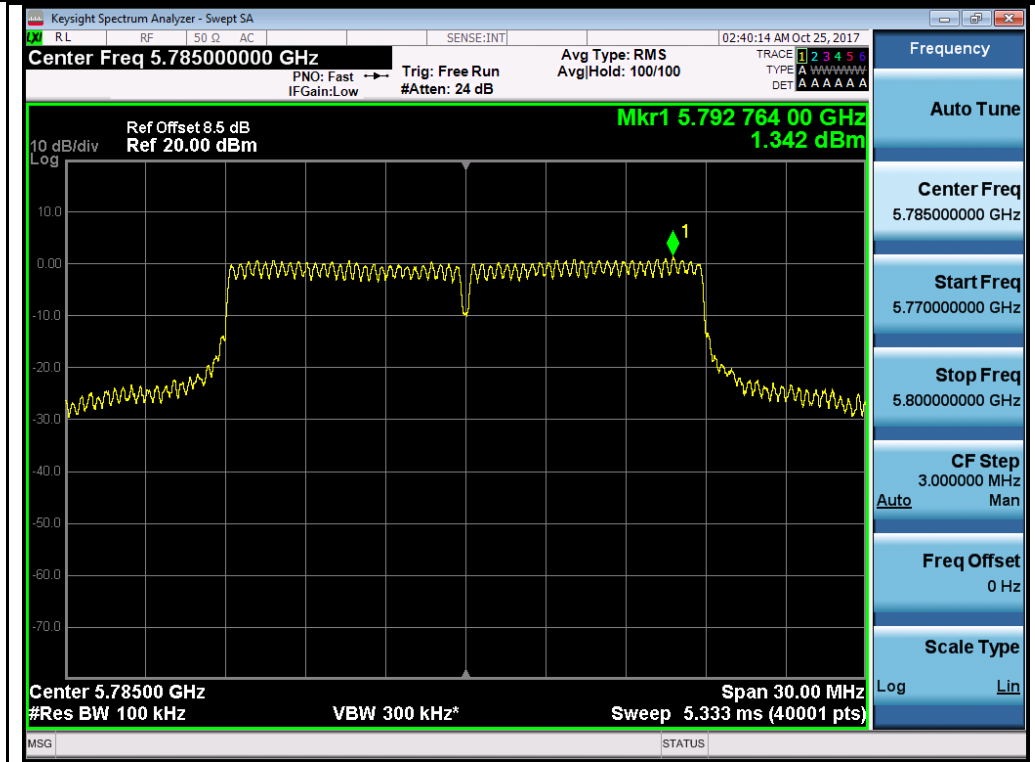




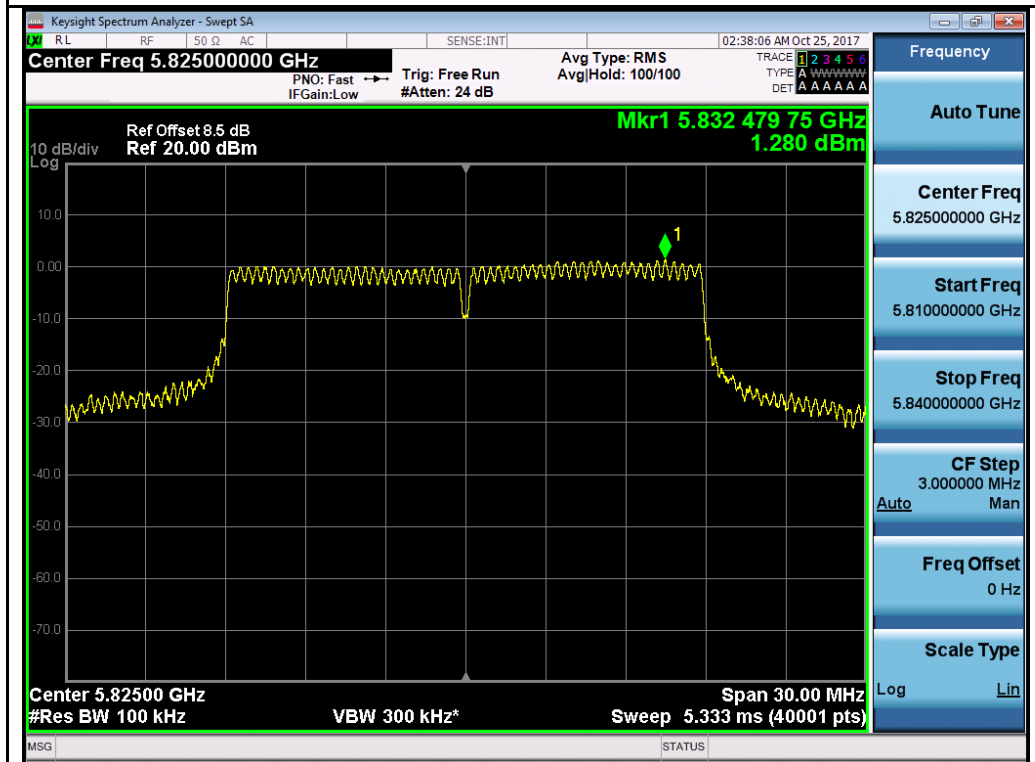
802.11a-5825M



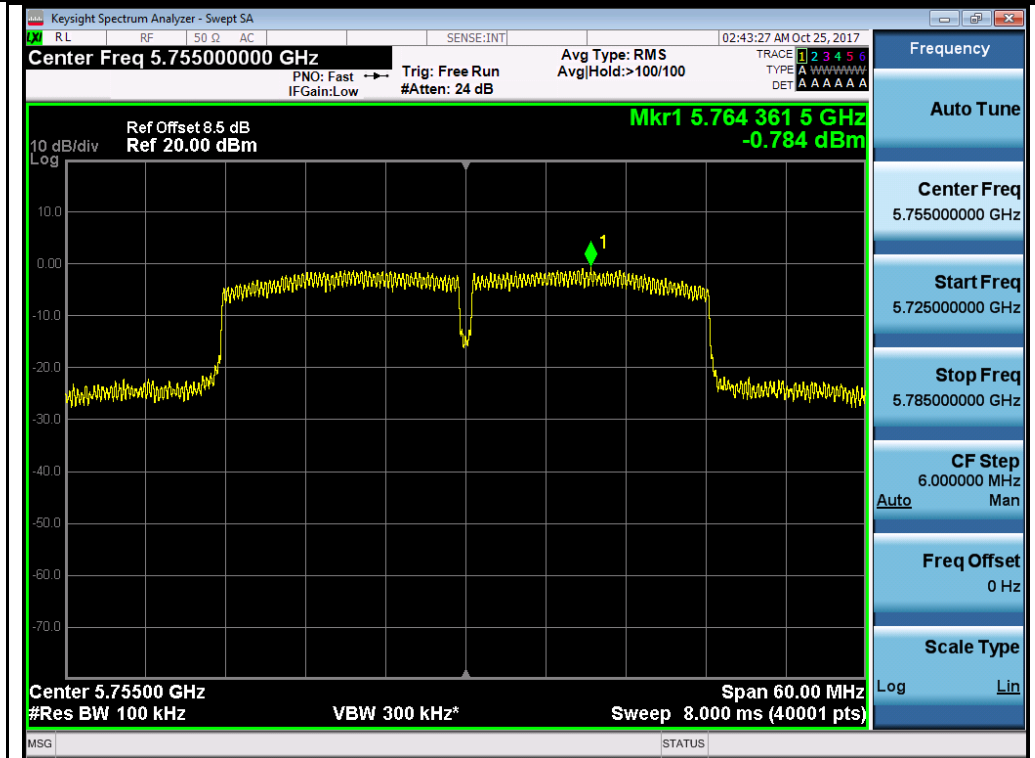
802.11n-HT20 5745M



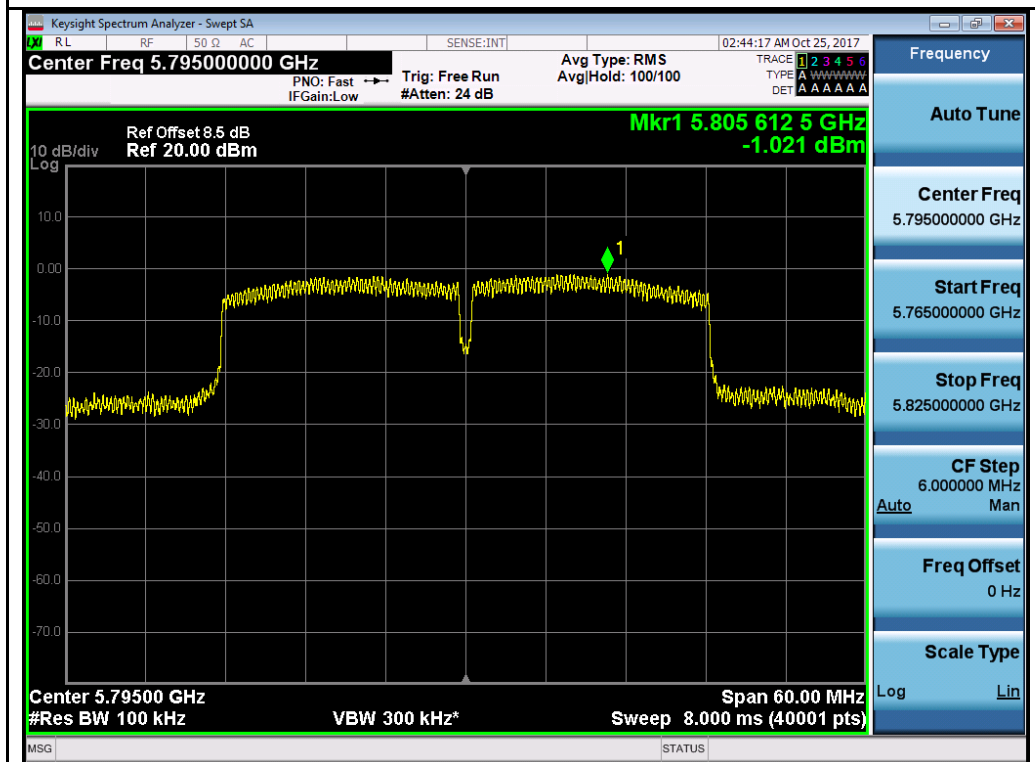
802.11n-HT20 5785M



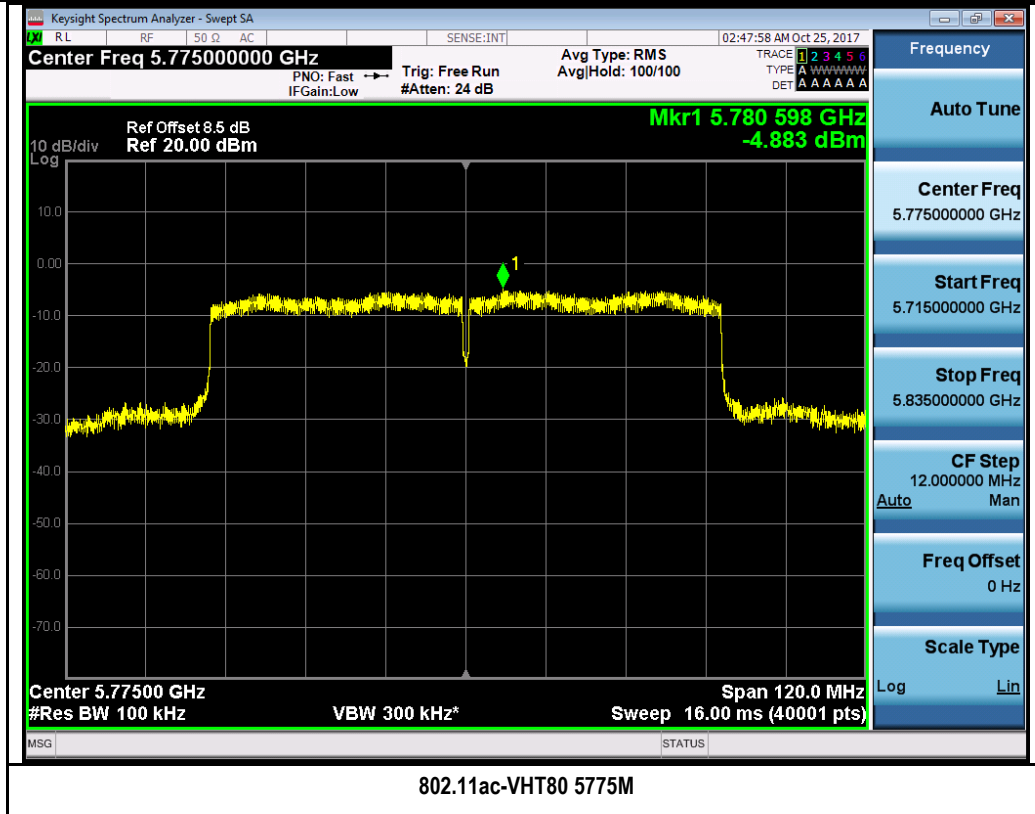
802.11n-HT20 5825M



802.11n-HT40 5755M

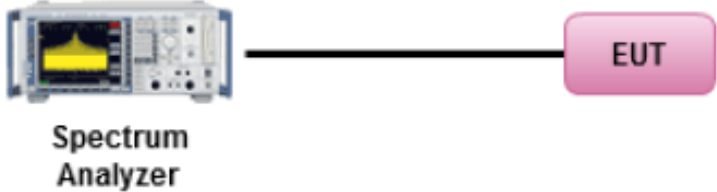


802.11n-HT40 5795M



10.5 Band Edge and Emission Mask Measurement

Requirement(s):

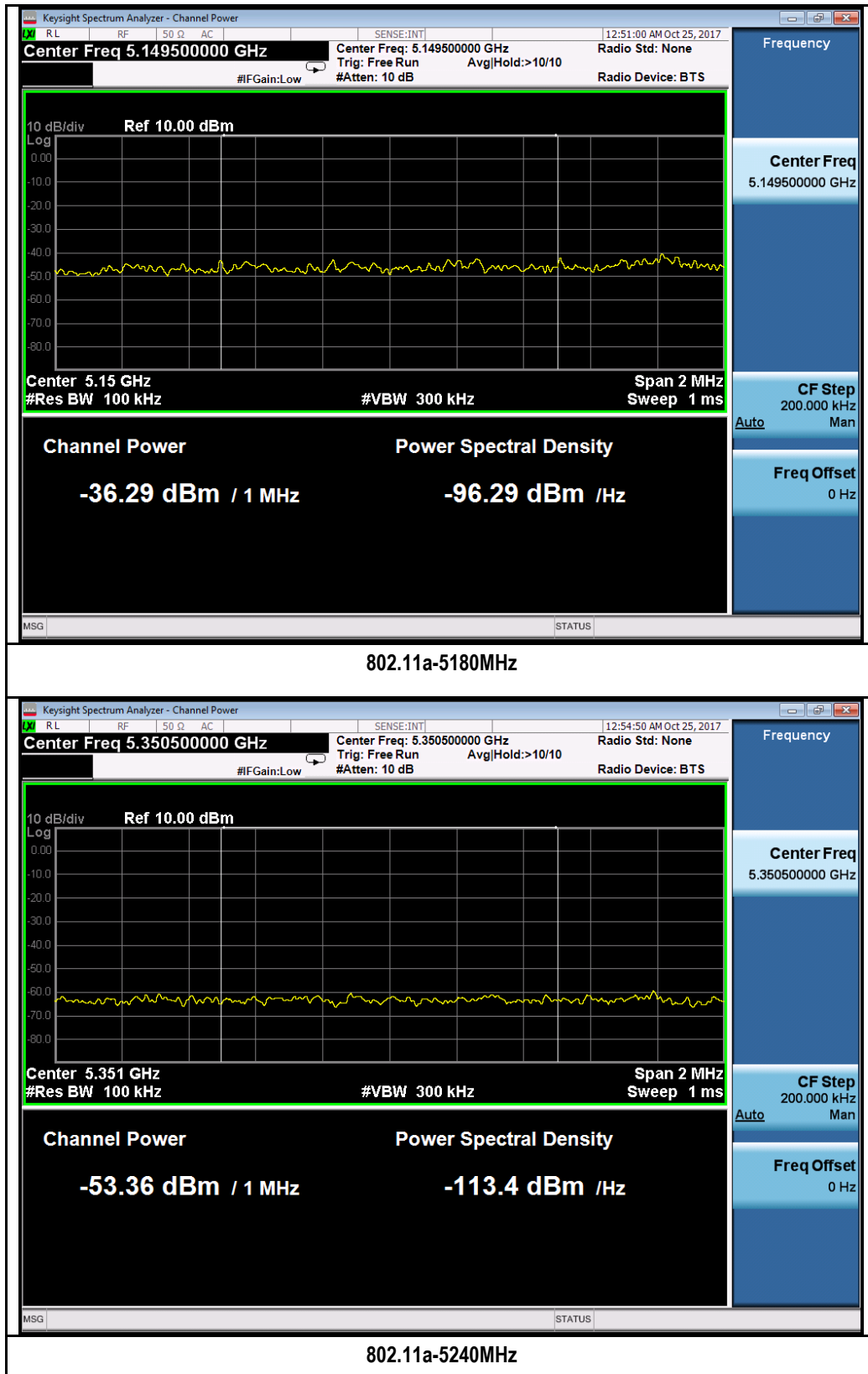
Spec	Item	Requirement	Applicable
47CFR§ 15.407(b)(2), 15.407(b)(6)	(1)	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☒
	(4)	For transmitters operating in the 5.725-5.825 GHz band: all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	☒
Test Setup	 Spectrum Analyzer EUT		
Procedure	789033 D02 General UNII Test Procedures New Rules v01r02, II.F. Method SA-1 <u>Band Edge measurement:</u> - For average emissions measurements, follow the procedures described in section II.G.6., "Procedures for Average Unwanted Emissions Measurements above 1000 MHz", except for the following changes: - Set RBW=100kHz - Set VBW=300kHz - Perform a band-power integration across the 1 MHz bandwidth in which the band-edge emission level is to be measured.		
Remark	Antenna gain was added to the offset.		
Result	☒ Pass ☐ Fail		

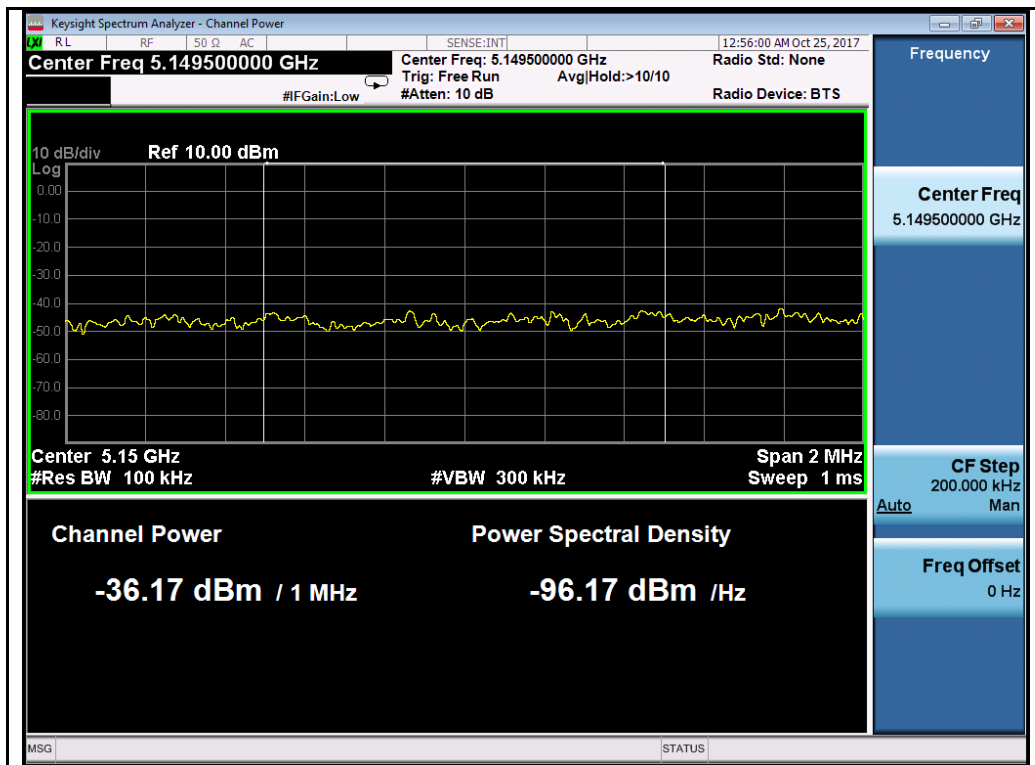
Test Data ☐ Yes (See below) ☒ N/A

Test Plot ☒ Yes (See below) ☐ N/A

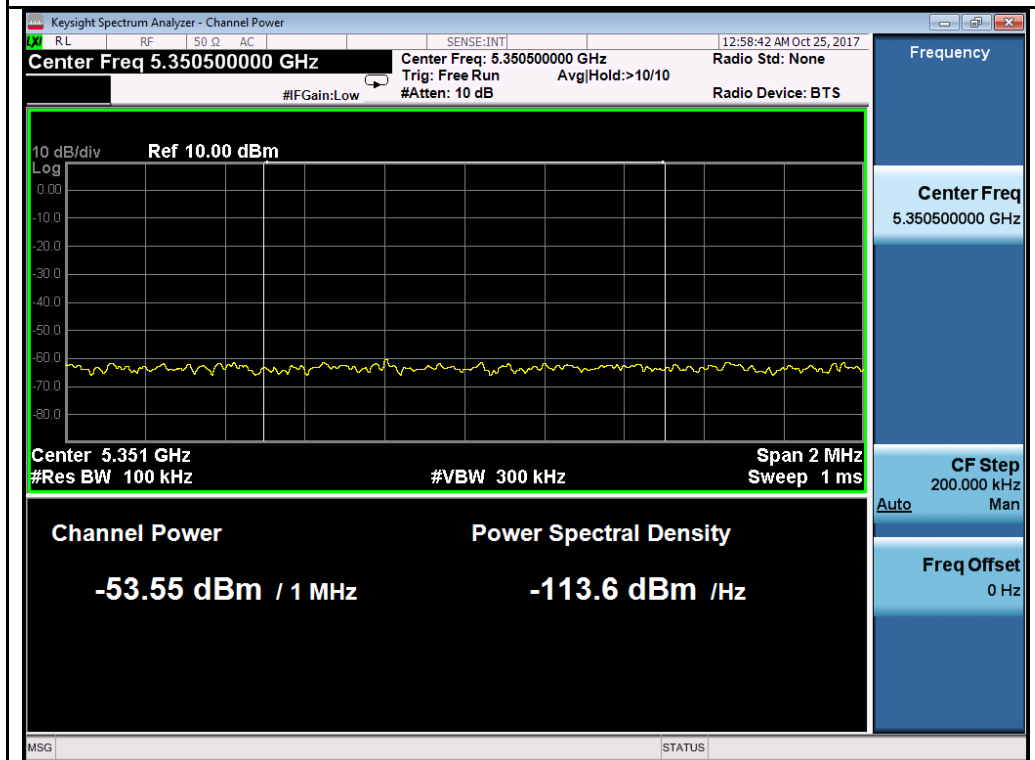
Test was done by Chen Ge at RF test site.

Test Plots for W52:
Chain 0:

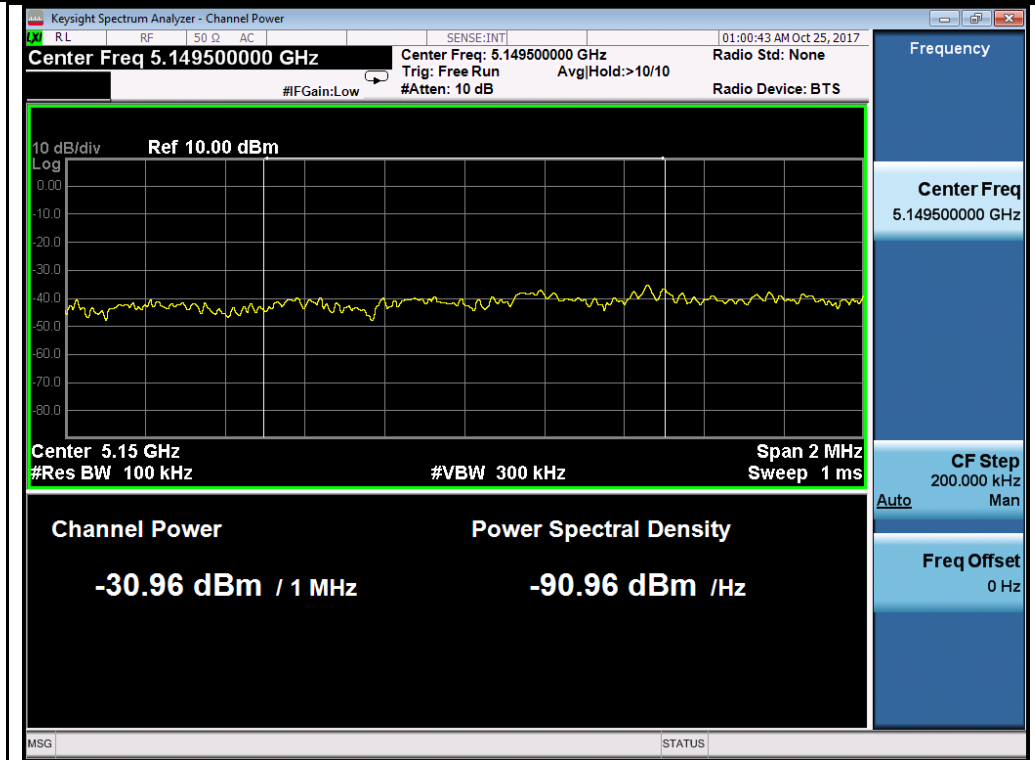




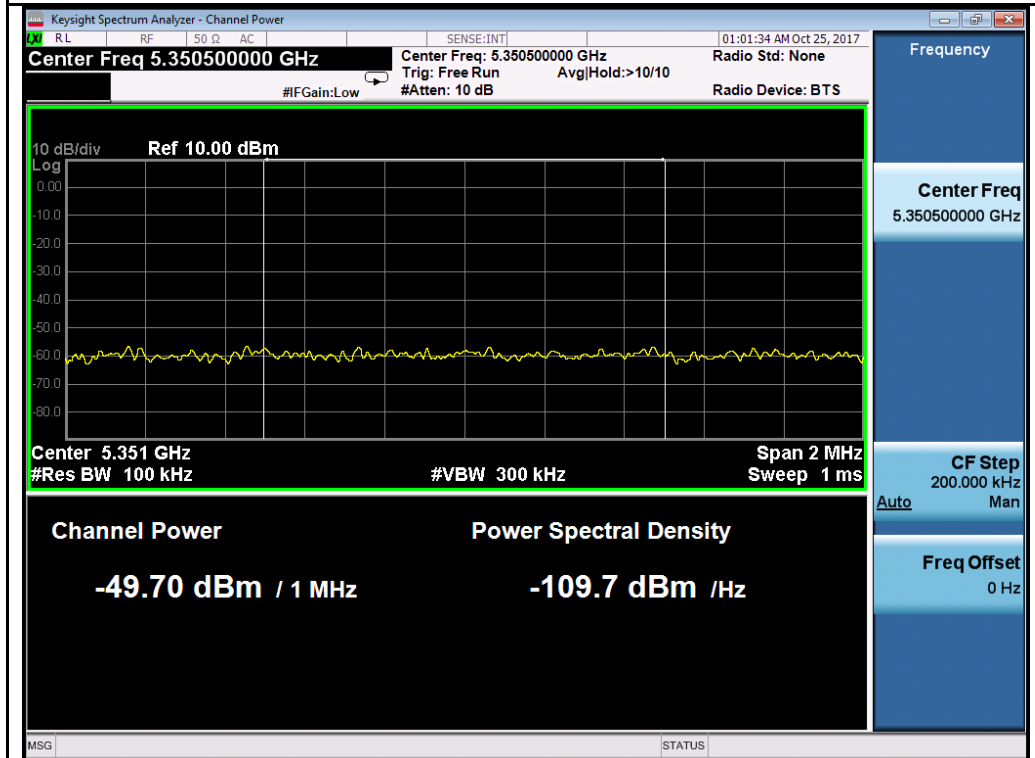
802.11n-HT20-5180MHz



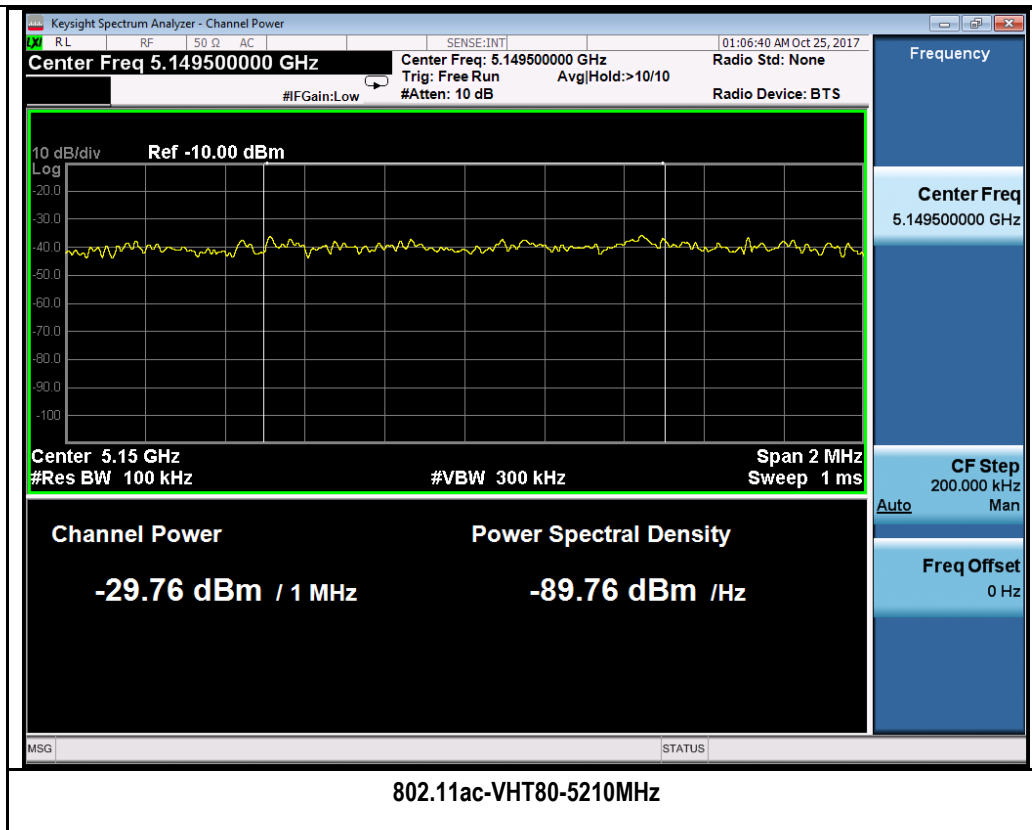
802.11n-HT20-5240MHz



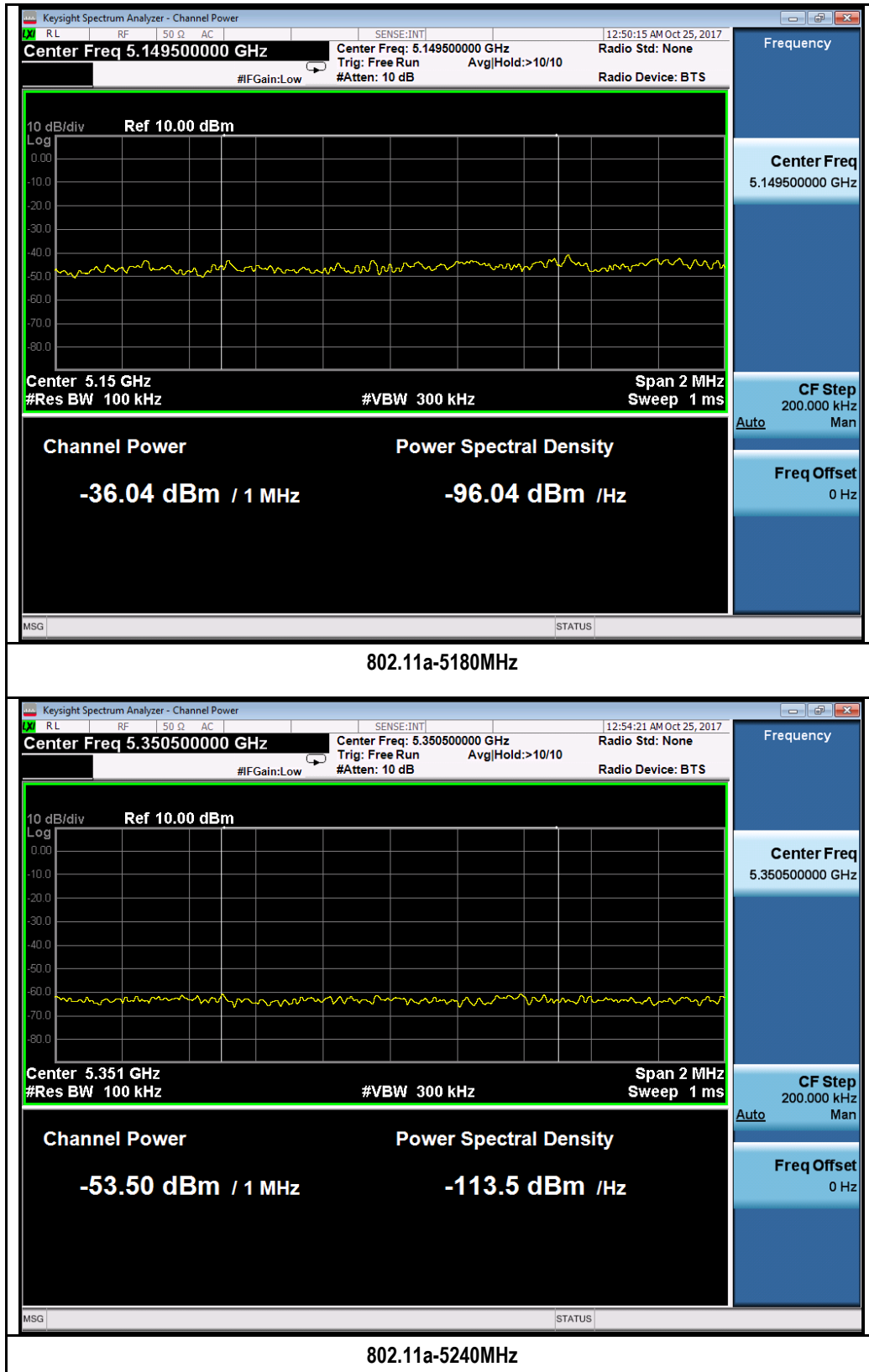
802.11n-HT40-5190MHz

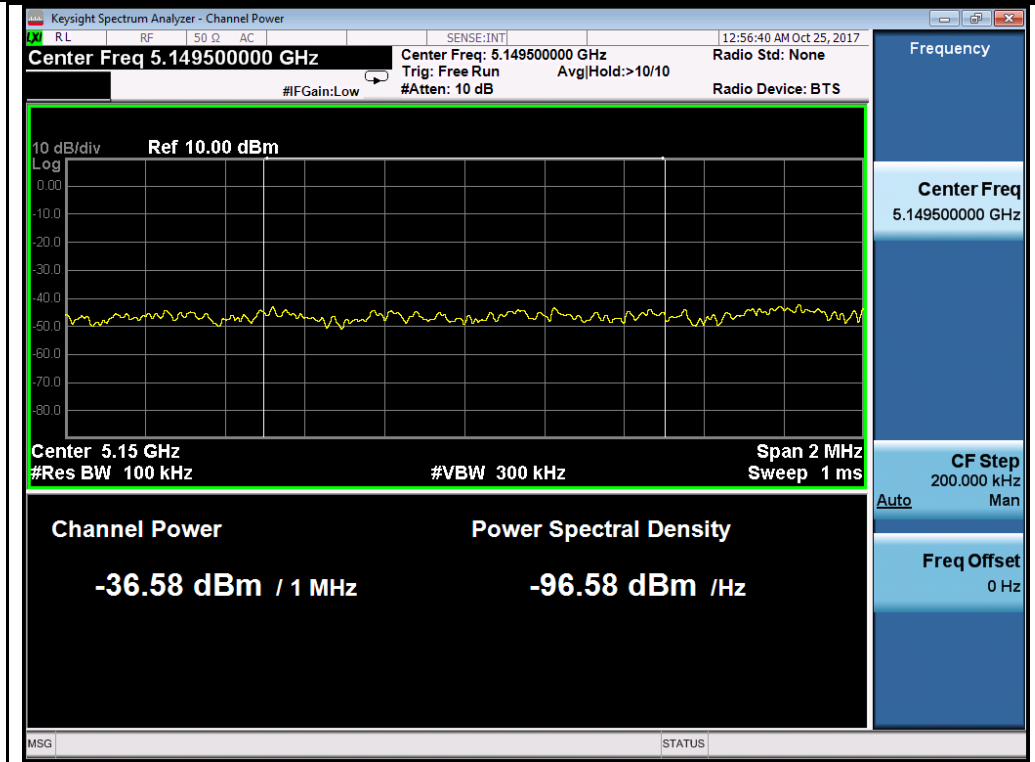


802.11n-HT40-5230MHz

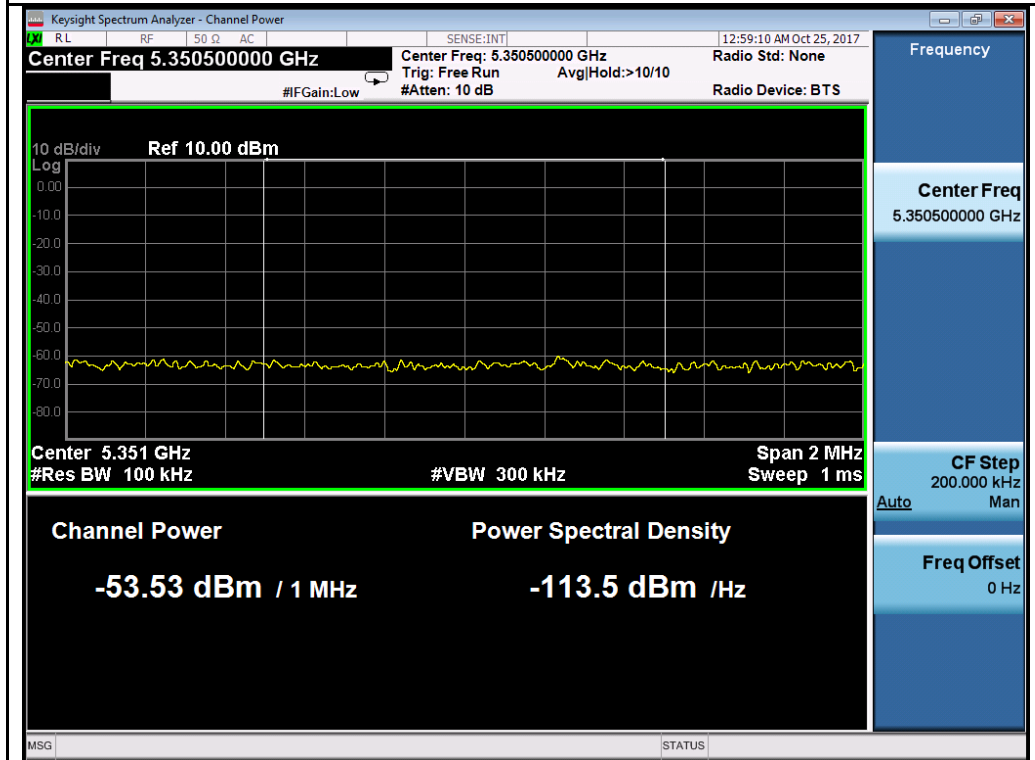


Chain 1:

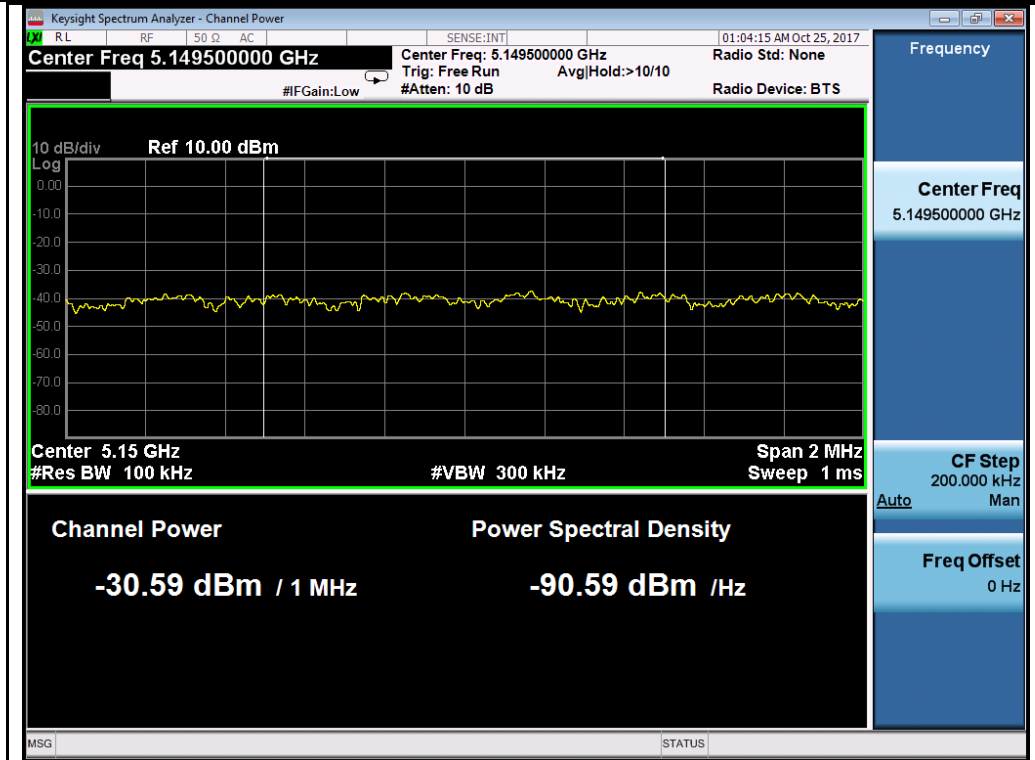




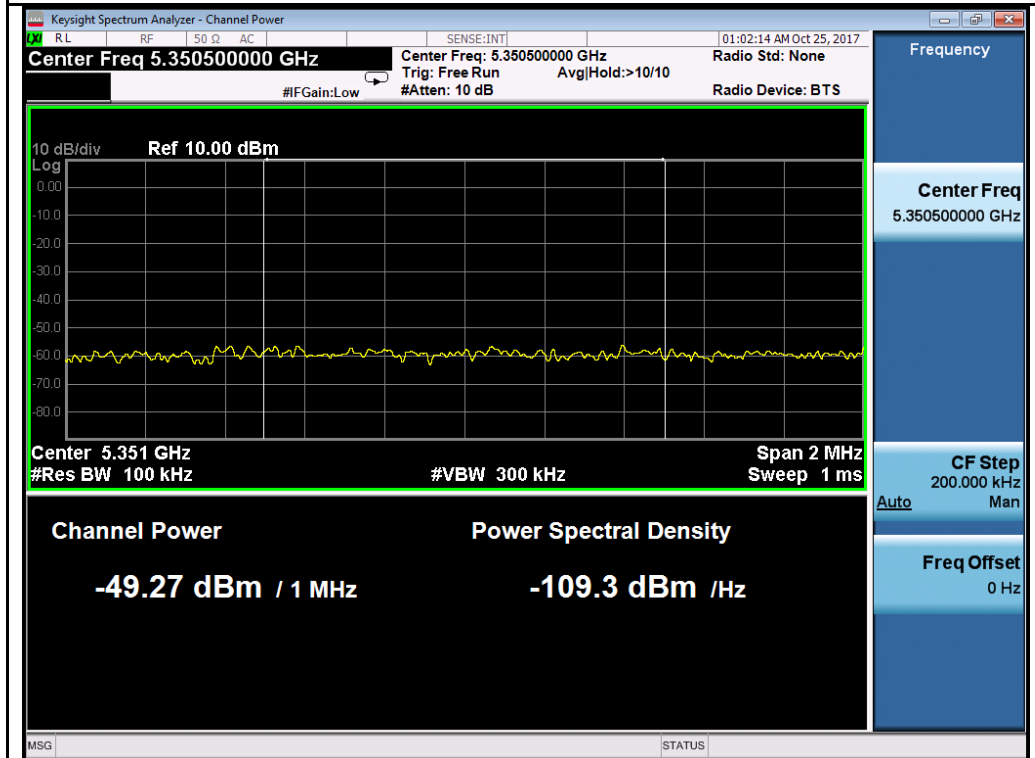
802.11n-HT20-5180MHz



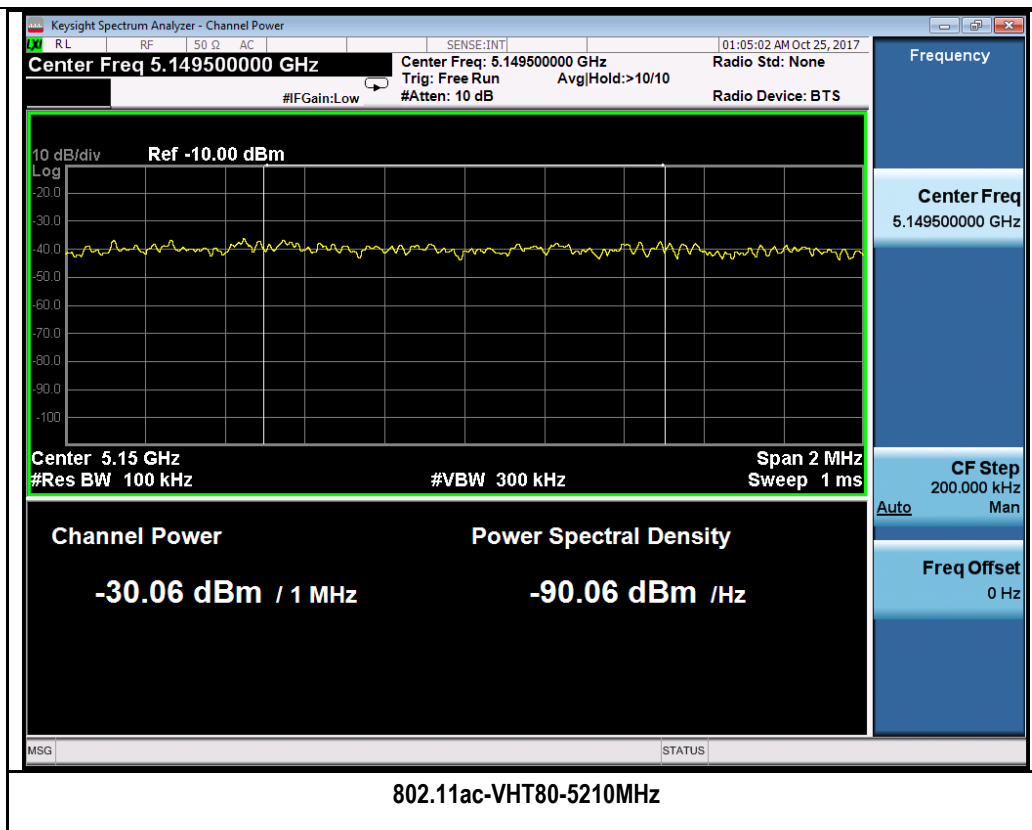
802.11n-HT20-5240MHz



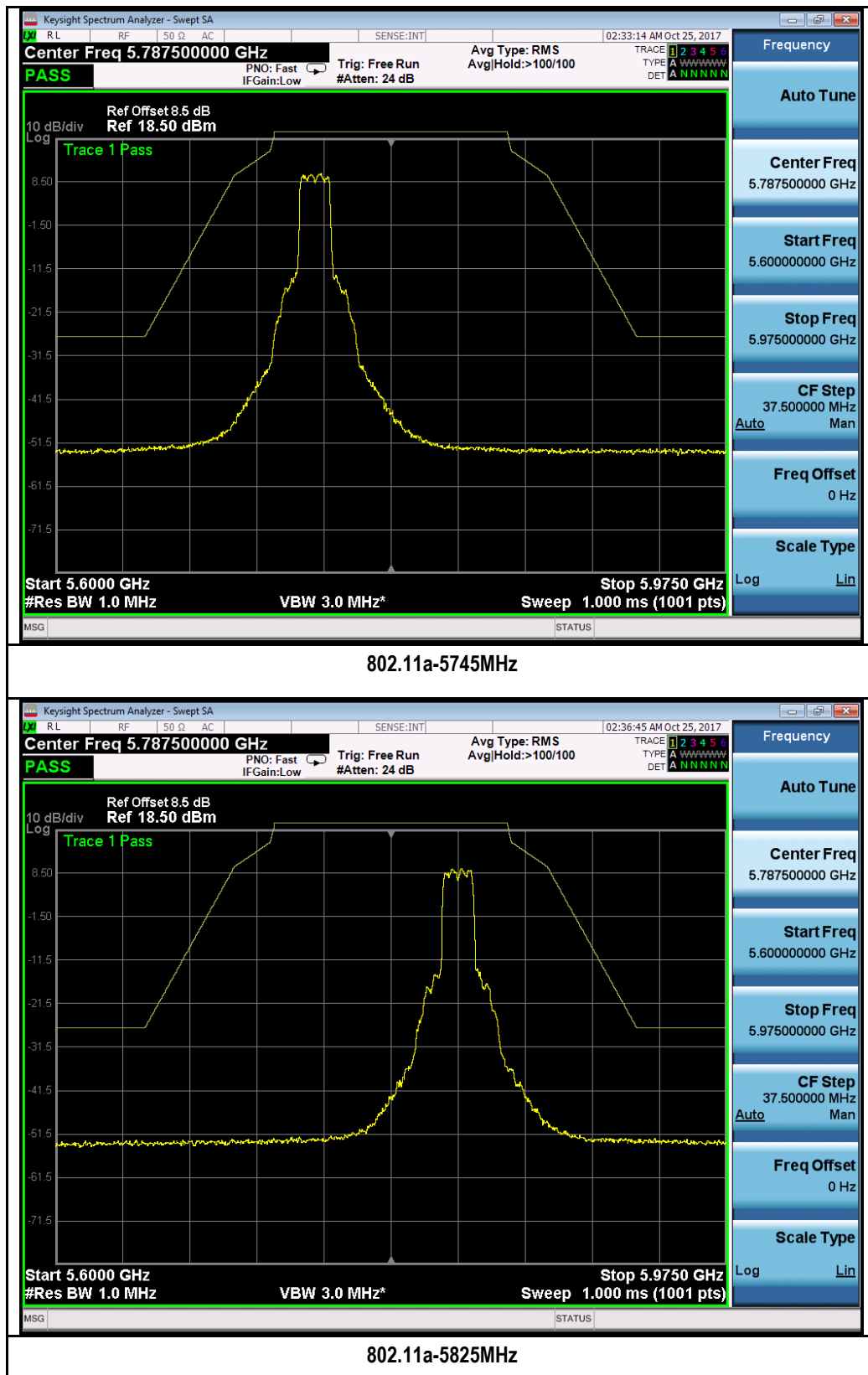
802.11n-HT40-5190MHz

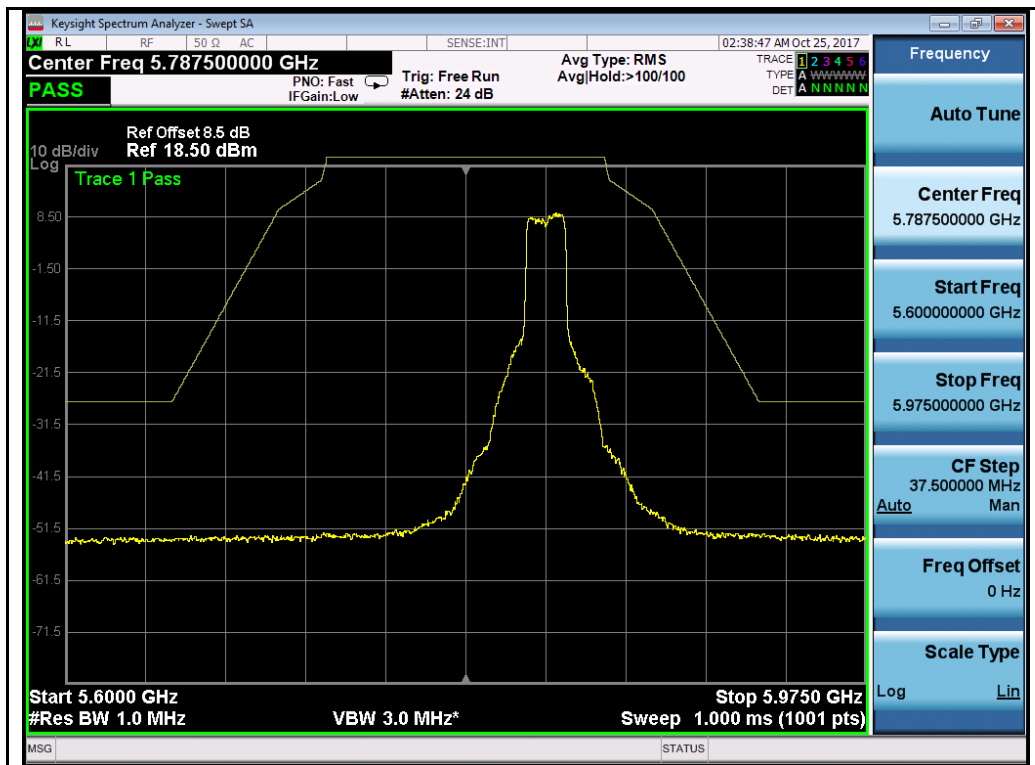


802.11n-HT40-5230MHz

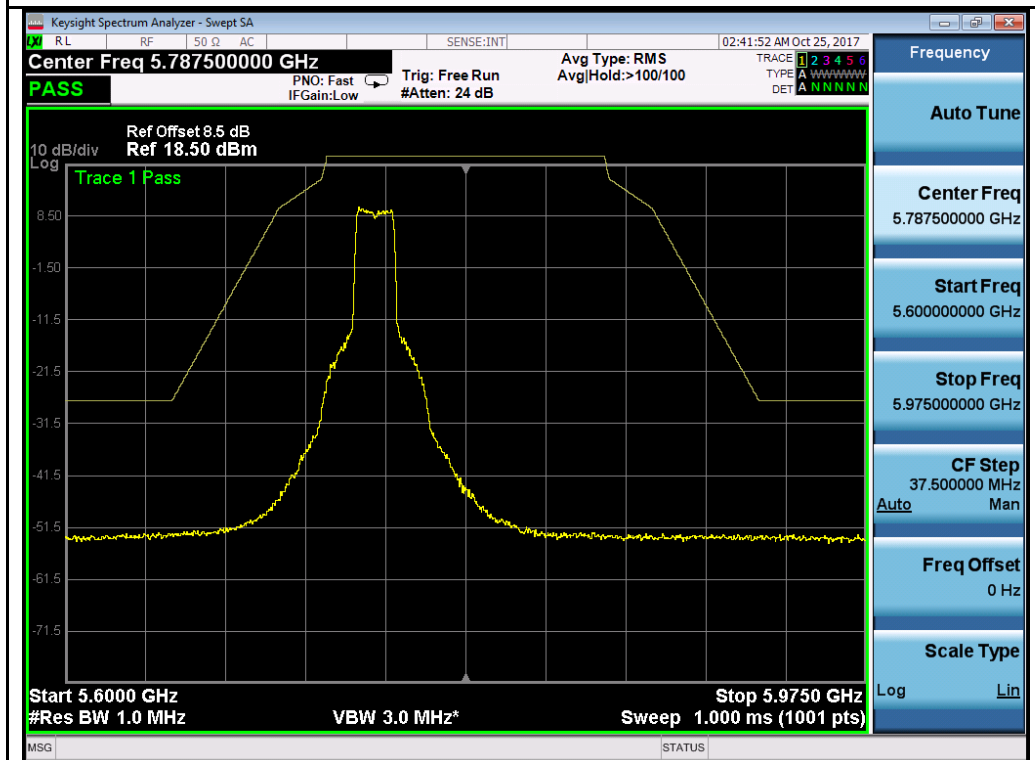


**Test Plots for W58:
Chain 0:**





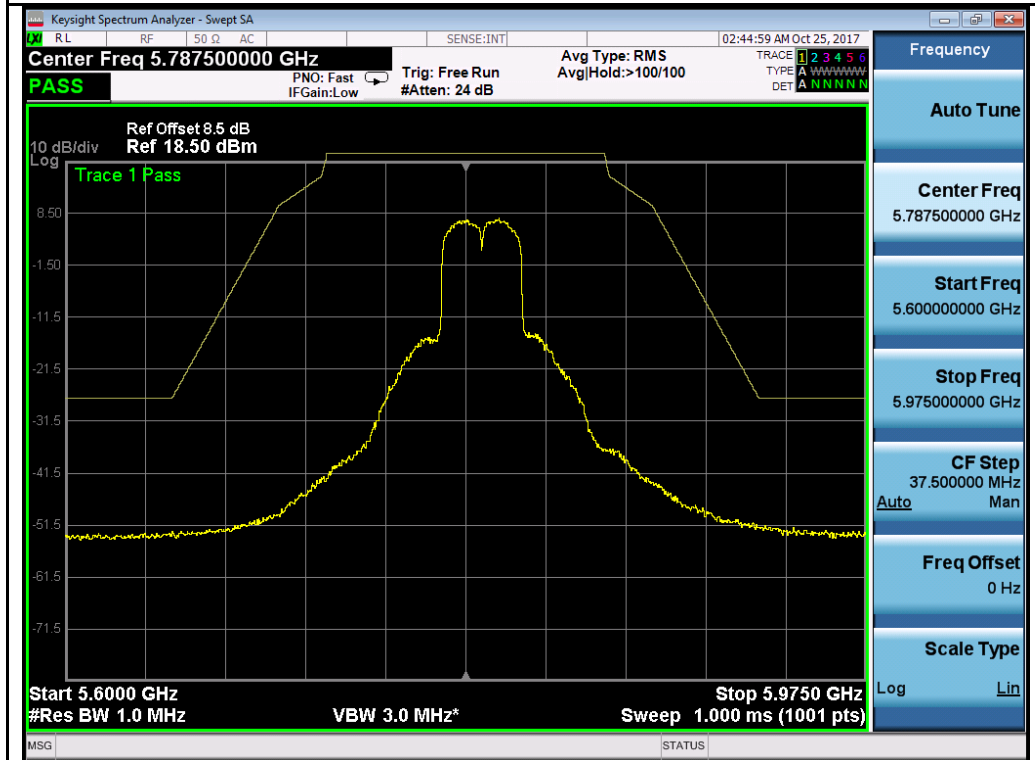
802.11n-HT20-5745MHz



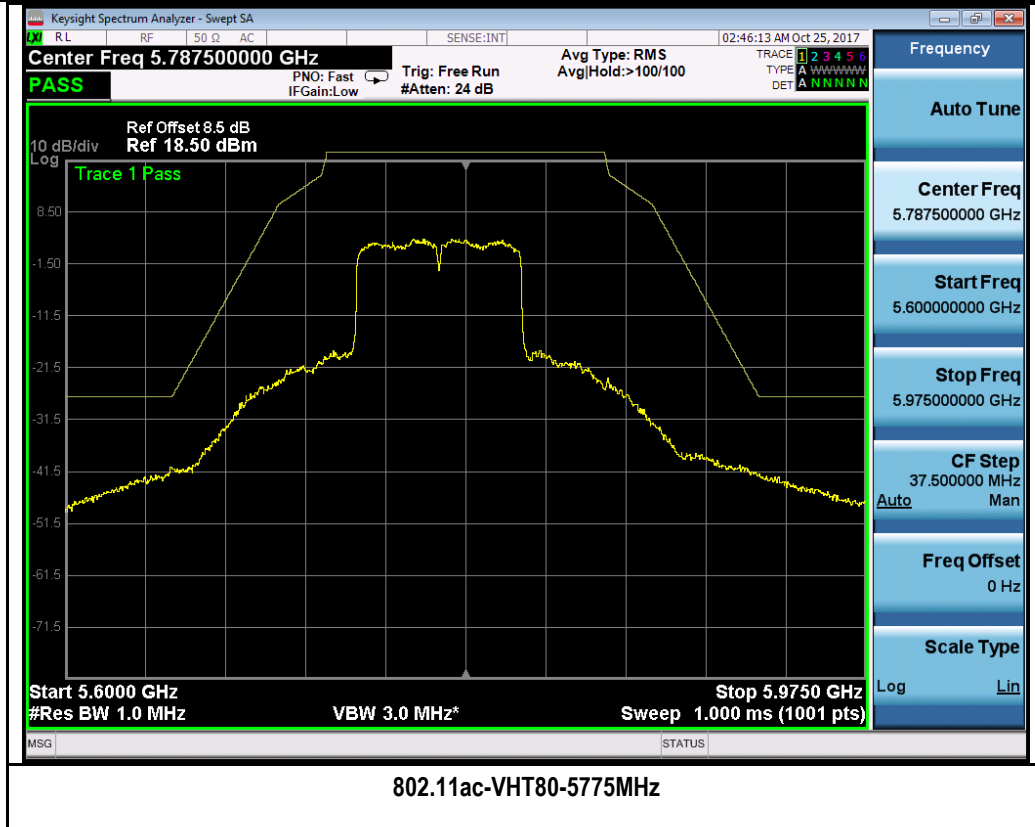
802.11n-HT20-5825MHz



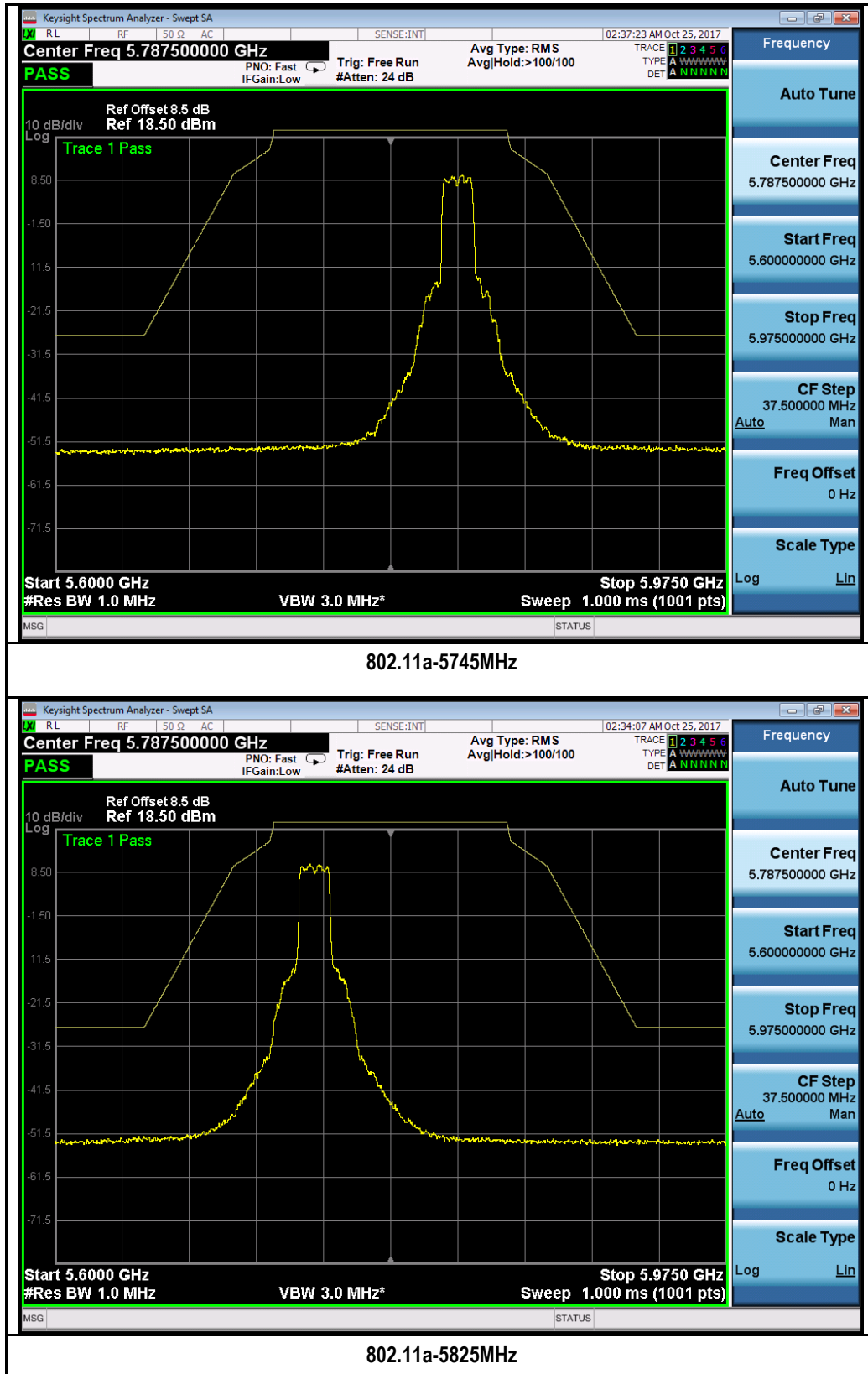
802.11n-HT40-5755MHz

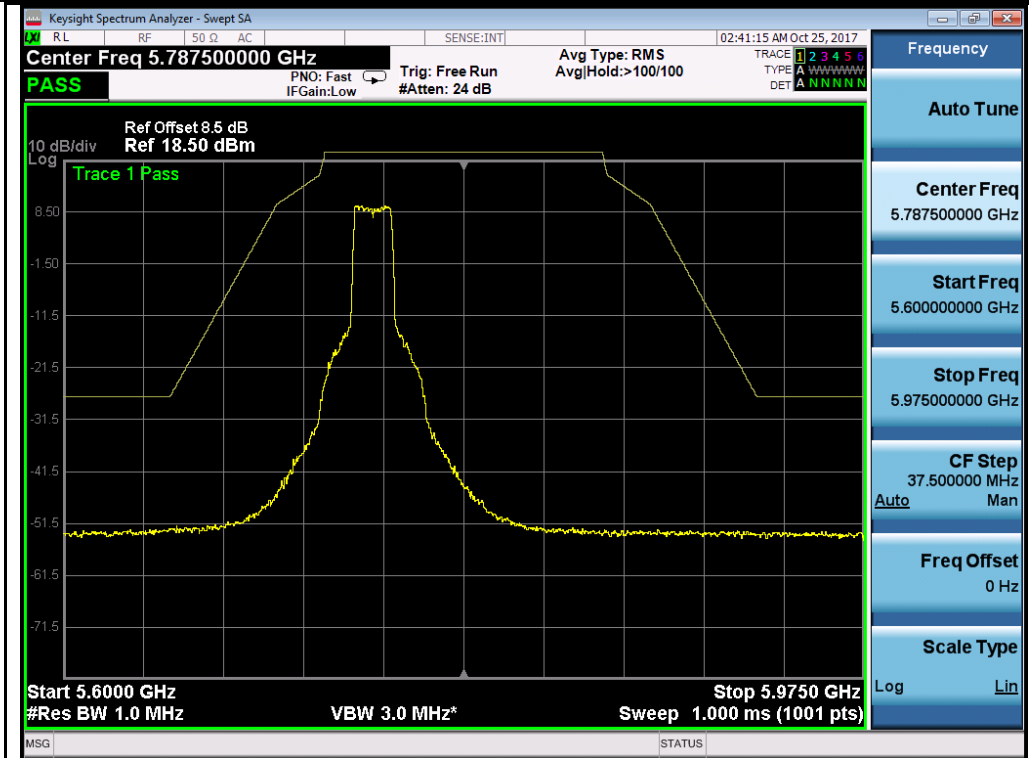


802.11n-HT40-5795MHz

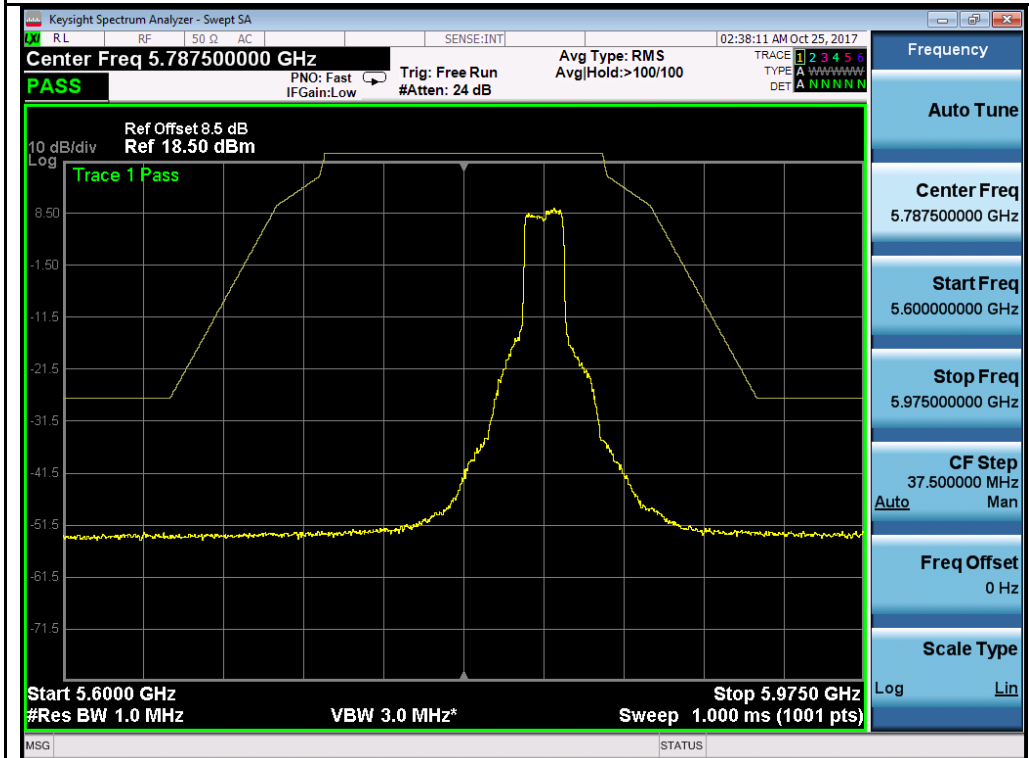


Chain 1:





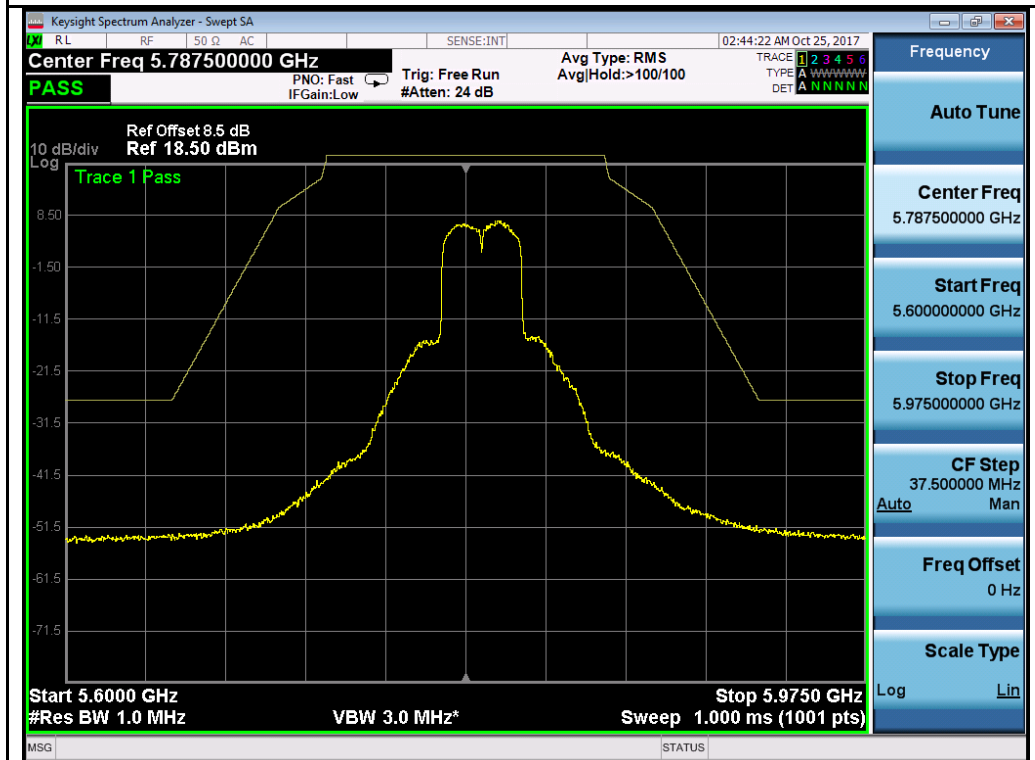
802.11n-HT20-5745MHz



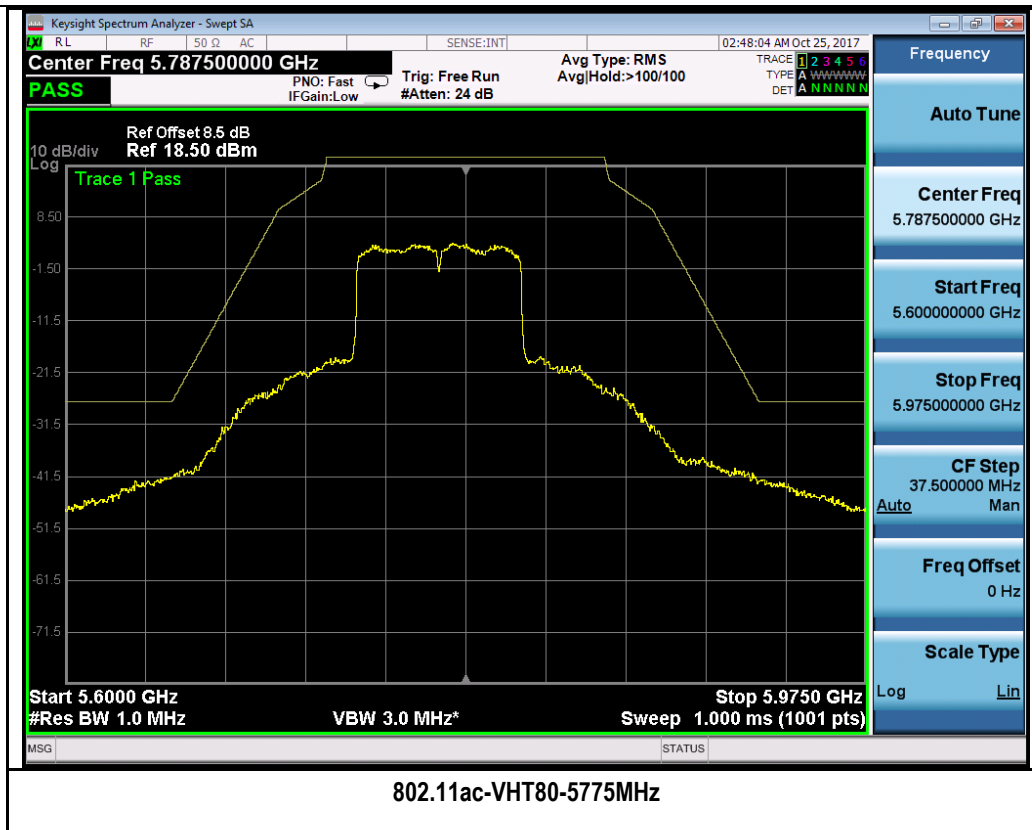
802.11n-HT20-5825MHz



802.11n-HT40-5755MHz

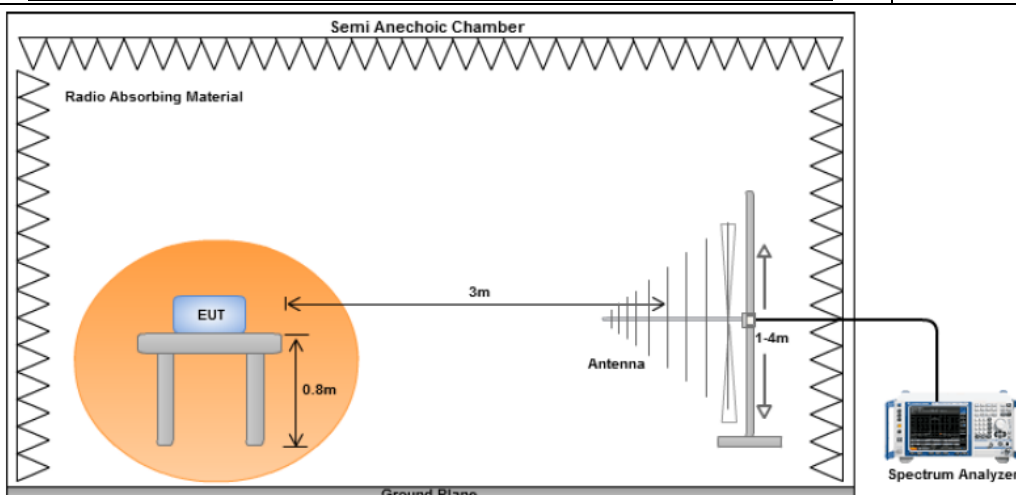


802.11n-HT40-5795MHz



10.6 Radiated Emissions below 1GHz

Requirement(s):

Spec	Requirement	Applicable										
47CFR§ 15.407(b) 15.209 (a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges <table><thead><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr></thead><tbody><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></tbody></table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)											
30 – 88	100											
88 – 216	150											
216 960	200											
Above 960	500											
Test Setup												
Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. A Quasi-peak measurement was then made for that frequency point. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.											
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.											
Result	☒ Pass ☐ Fail											

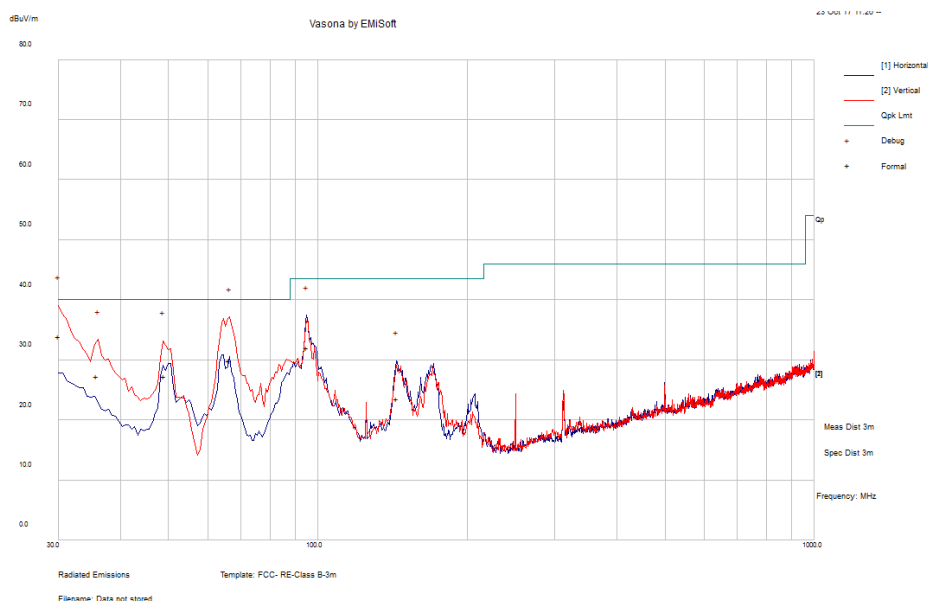
Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Gary Chou at 10m chamber.

Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			
Environmental Conditions:	Temp (°C):	26	Result	Pass
	Humidity (%)	47		
	Atmospheric (mbar):	1020		
Mains Power:	120VAC, 60Hz			
Tested by:	Shuo Zhang			
Test Date:	10/23/2017			
Remarks:	802.11ac – VHT80, 5210MHz			

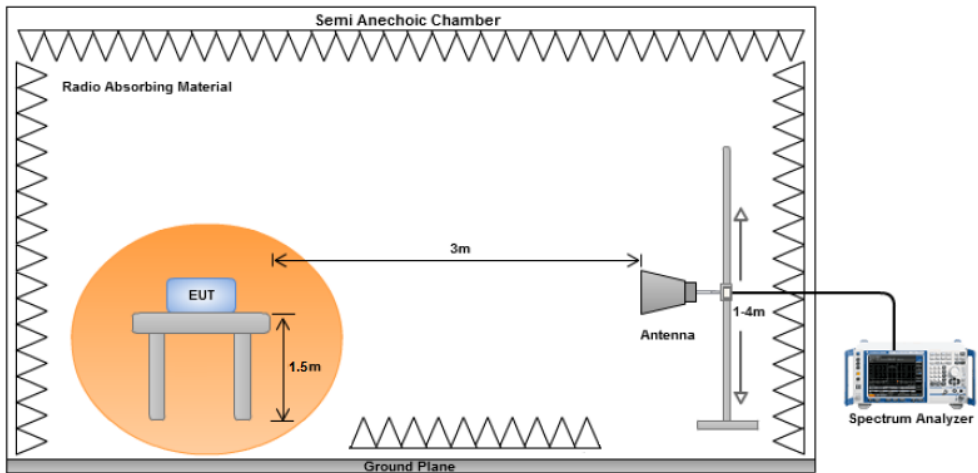


Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
30.00	36.44	11.29	-13.86	33.87	Quasi Max	V	105	135	40	-6.13	Pass
66.23	46.49	11.69	-28.35	29.83	Quasi Max	V	179	315	40	-10.17	Pass
94.96	47.33	12	-27.27	32.06	Quasi Max	H	291	176	43.5	-11.44	Pass
35.83	34.62	11.38	-18.72	27.28	Quasi Max	V	122	73	40	-12.72	Pass
49.02	42.27	11.57	-26.59	27.25	Quasi Max	V	100	65	40	-12.75	Pass
143.93	35	12.4	-23.89	23.50	Quasi Max	H	199	273	43.5	-20.00	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

10.7 Radiated Spurious Emissions above 1GHz

Requirement(s):

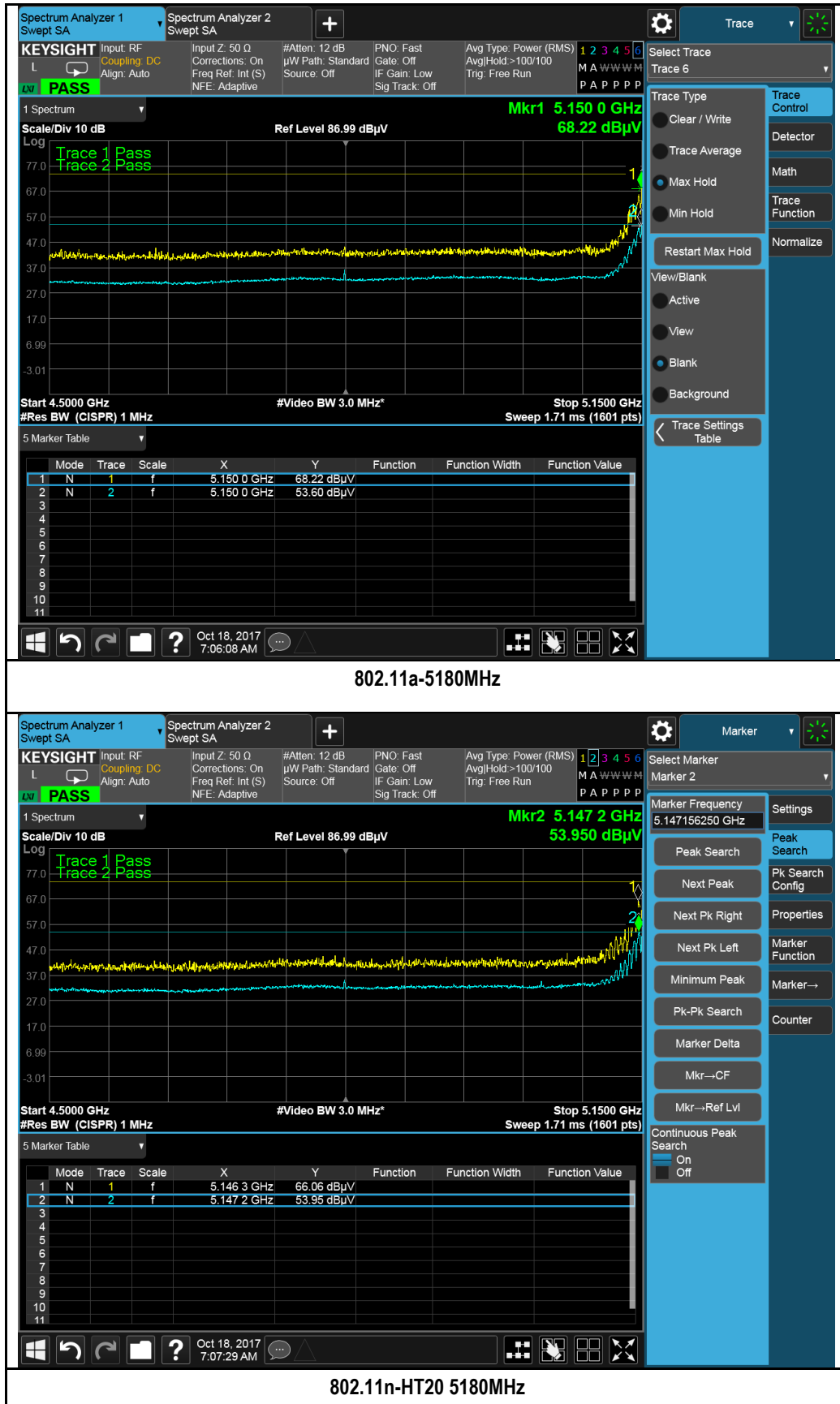
Spec	Item	Requirement	Applicable
47CFR§ 15.407(b)(2), 15.407(b)(6)	(1)	For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☒
	(2)	For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.	☐
	(3)	For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.	☐
	(4)	For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.	☒
	(5)	Restricted band, emission must also comply with the radiated emission limits specified in 15.209	☒
Test Setup			
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: - Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - An average measurement was then made for that frequency point. - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.		
Result	☒ Pass ☐ Fail		

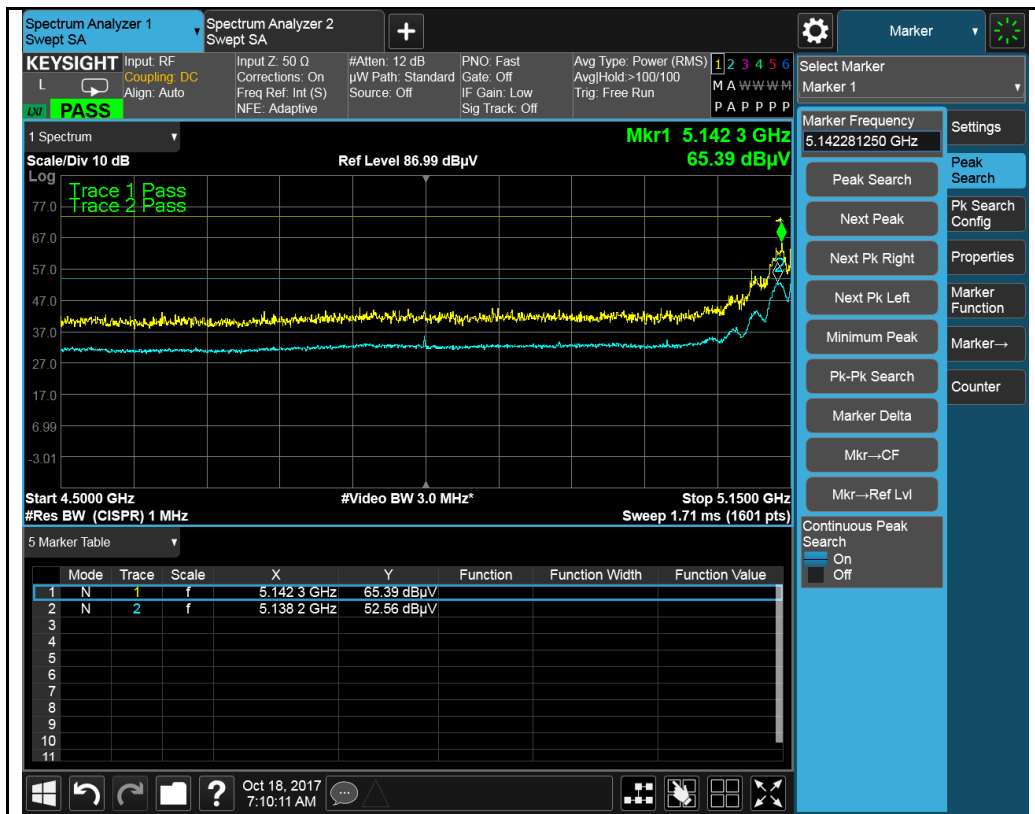
Test Data ☐ Yes (See below) ☒ N/A

Test Plot ☒ Yes (See below) ☐ N/A

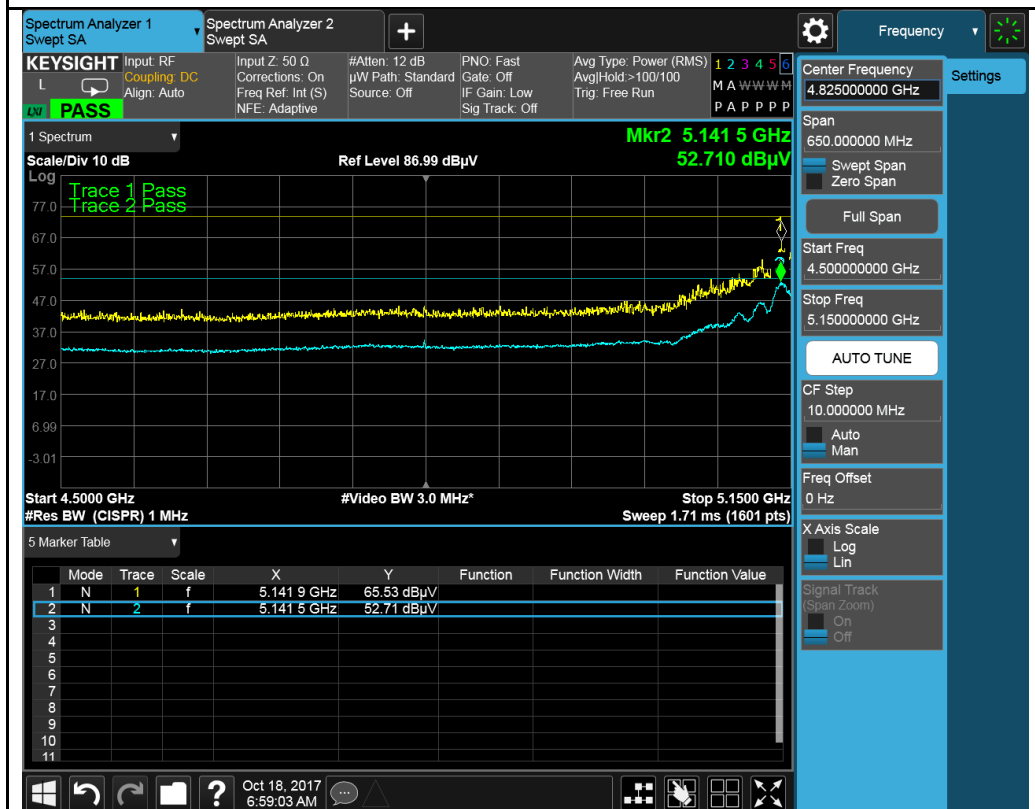
Test was done by Gary Chou at 10m chamber.

Restricted Band Measurement Plots:





802.11n-HT40 5190MHz



802.11ac-VHT80 5210MHz

Radiated Emission Test Results (Above 1GHz)

1GHz-40GHz – 802.11a – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15542.77	38.93	8.25	6.31	53.49	Peak Max	V	316	129	74	-20.51	Pass
10362.51	43.72	6.69	2.15	52.56	Peak Max	H	180	325	74	-21.44	Pass
15542.77	27.05	8.25	6.31	41.61	Average Max	H	400	333	54	-12.39	Pass
10362.51	30.84	6.69	2.15	39.67	Average Max	H	180	325	54	-14.33	Pass

1GHz-40GHz – 802.11a – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15598.94	39.55	8.28	6.37	54.2	Peak Max	H	235	84	74	-19.80	Pass
10397.56	42.6	6.71	2.16	51.47	Peak Max	V	99	276	74	-22.53	Pass
15598.94	26.88	8.28	6.37	41.53	Average Max	H	235	84	54	-12.47	Pass
10397.56	30.24	6.71	2.16	39.1	Average Max	V	99	276	54	-14.90	Pass

1GHz-40GHz – 802.11a – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
10475.51	42.85	6.75	2.43	52.03	Peak Max	V	287	316	74	-21.97	Pass
15717.12	39.36	8.34	5.94	53.64	Peak Max	V	214	227	74	-20.36	Pass
10475.51	30.71	6.75	2.43	39.89	Average Max	V	287	316	54	-14.11	Pass
15717.12	27.14	8.34	5.94	41.42	Average Max	V	214	227	54	-12.58	Pass

1GHz-40GHz – 802.11n-20M – 5180MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15540.32	39.04	8.25	6.31	53.59	Peak Max	V	306	282	74	-20.41	Pass
10361.52	44.14	6.69	2.15	52.98	Peak Max	H	108	36	74	-21.02	Pass
15540.32	26.96	8.25	6.31	41.52	Average Max	V	306	282	54	-12.48	Pass
10361.52	30.77	6.69	2.15	39.6	Average Max	H	108	36	54	-14.40	Pass

1GHz-40GHz – 802.11n-20M – 5200MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15597.62	38.97	8.28	6.37	53.62	Peak Max	H	339	177	74	-20.38	Pass
10399.82	48.57	6.71	2.16	57.44	Peak Max	V	99	322	74	-16.56	Pass
15597.62	26.83	8.28	6.37	41.48	Average Max	H	339	177	54	-12.52	Pass
10399.82	35.33	6.71	2.16	44.2	Average Max	V	99	322	54	-9.80	Pass

1GHz-40GHz – 802.11n-20M – 5240MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15721.33	39.17	8.34	5.97	53.48	Peak Max	H	111	271	74	-20.52	Pass
10480.73	47	6.75	2.45	56.2	Peak Max	V	86	321	74	-17.80	Pass
15721.33	27.12	8.34	5.97	41.42	Average Max	V	147	168	54	-12.58	Pass
10480.73	33.91	6.75	2.45	43.11	Average Max	V	86	321	54	-10.89	Pass

1GHz-40GHz – 802.11n-40M – 5190MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15570.01	39.69	8.26	6.34	54.29	Peak Max	H	100	158	74	-19.71	Pass
10380.42	43.13	6.7	2.15	51.99	Peak Max	V	194	338	74	-22.02	Pass
15570.01	26.73	8.26	6.34	41.33	Average Max	H	100	158	54	-12.67	Pass
10380.42	30.66	6.7	2.15	39.51	Average Max	V	194	338	54	-14.49	Pass

1GHz-40GHz – 802.11n-40M – 5230MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15690.97	39.33	8.32	5.89	53.55	Peak Max	V	374	166	74	-20.45	Pass
10459.60	44.45	6.74	2.38	53.56	Peak Max	V	225	326	74	-20.44	Pass
15690.97	27.11	8.32	5.89	41.33	Average Max	V	374	166	54	-12.67	Pass
10459.60	32.16	6.74	2.38	41.28	Average Max	V	225	326	54	-12.72	Pass

1GHz-40GHz – 802.11ac-80M – 5210MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
15629.55	39.29	8.29	6.22	53.8	Peak Max	V	287	52	74	-20.20	Pass
10420.97	41.76	6.72	2.24	50.72	Peak Max	H	255	335	74	-23.28	Pass
15629.55	26.98	8.29	6.22	41.49	Average Max	H	280	303	54	-12.51	Pass
10420.97	29.05	6.72	2.24	38	Average Max	H	255	335	54	-16.00	Pass

1GHz-40GHz – 802.11a – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
11485.32	43.99	7.69	2.68	54.36	Peak Max	V	156	69	74	-19.64	Pass
17235.19	38.61	8.12	8.68	55.41	Peak Max	H	107	272	74	-18.60	Pass
11485.32	31.72	7.69	2.68	42.1	Average Max	V	156	69	54	-11.90	Pass
17235.19	26.56	8.12	8.68	43.35	Average Max	V	110	110	54	-10.65	Pass

1GHz-40GHz - 802.11a– 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17354.29	38.72	8.06	10.56	57.35	Peak Max	H	284	110	74	-16.66	Pass
11569.84	43.87	7.76	2.85	54.48	Peak Max	V	153	41	74	-19.52	Pass
17354.29	26.39	8.06	10.56	45.01	Average Max	H	284	110	54	-8.99	Pass
11569.84	31.46	7.76	2.85	42.07	Average Max	V	153	41	54	-11.93	Pass

1GHz-40GHz - 802.11a - 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17473.74	38.23	8	10.63	56.86	Peak Max	V	383	210	74	-17.14	Pass
11648.48	45.2	7.81	2.85	55.86	Peak Max	V	99	36	74	-18.14	Pass
17473.74	26.43	8	10.63	45.06	Average Max	V	383	210	54	-8.94	Pass
11648.48	32.66	7.81	2.85	43.32	Average Max	V	99	36	54	-10.68	Pass

1GHz-40GHz – 802.11n-20M – 5745MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
11650.18	43.4	8.54	8.08	60.02	Peak Max	V	115	174	74	-13.98	Pass
17475.18	45.74	9.31	5.24	60.29	Peak Max	V	194	327	74	-13.71	Pass
11650.18	31.91	8.54	8.08	48.53	Average Max	V	115	174	54	-5.47	Pass
17475.18	34.47	9.31	5.24	49.02	Average Max	V	194	327	54	-4.98	Pass

1GHz-40GHz - 802.11n-20M– 5785MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
11570.14	44.43	8.56	8.02	61.01	Peak Max	V	115	174	74	-12.99	Pass
17355.14	44.31	9.4	4.15	57.86	Peak Max	V	194	327	74	-16.14	Pass
11570.14	32.87	8.56	8.02	49.45	Average Max	V	115	174	54	-4.55	Pass
17355.14	34.15	9.4	4.15	47.7	Average Max	V	194	327	54	-6.3	Pass

1GHz-40GHz - 802.11n-20M - 5825MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
11650.42	44.66	8.58	8.01	61.25	Peak Max	V	115	174	74	-12.75	Pass
17475.42	44.99	9.38	3.94	58.31	Peak Max	V	194	327	74	-15.69	Pass
11650.42	32.79	8.58	8.01	49.38	Average Max	V	115	174	54	-4.62	Pass
17475.42	34.97	9.38	3.94	48.29	Average Max	V	194	327	54	-5.71	Pass

1GHz-40GHz – 802.11n-40M – 5755MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17267.91	39.28	8.1	9.31	56.69	Peak Max	V	280	274	74	-17.31	Pass
11510.78	41.47	7.72	2.64	51.82	Peak Max	H	121	16	74	-22.18	Pass
17267.91	26.41	8.1	9.31	43.82	Average Max	H	100	242	54	-10.18	Pass
11510.78	28.35	7.72	2.64	38.71	Average Max	H	121	16	54	-15.29	Pass

1GHz-40GHz - 802.11n-40M– 5795MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17385.77	38.8	8.04	10.93	57.77	Peak Max	V	216	346	74	-16.23	Pass
11589.17	41.34	7.77	2.92	52.03	Peak Max	V	136	29	74	-21.97	Pass
17385.77	26.37	8.04	10.93	45.35	Average Max	V	216	346	54	-8.66	Pass
11589.17	28.59	7.77	2.92	39.28	Average Max	V	136	29	54	-14.72	Pass

1GHz-40GHz - 802.11ac-80M - 5775MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17324.76	38.51	8.07	10.22	56.81	Peak Max	V	278	281	74	-17.19	Pass
11550.47	38.5	7.74	2.78	49.03	Peak Max	H	374	47	74	-24.98	Pass
17324.76	26.38	8.07	10.22	44.68	Average Max	V	278	281	54	-9.32	Pass
11550.47	26.12	7.74	2.78	36.65	Average Max	V	140	225	54	-17.35	Pass

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
R & S Receiver	ESIB 40	100179	06/08/2017	1 Year	06/08/2018	☒
CHASE LISN	MN2050B	1018	08/07/2017	1 Year	08/07/2018	☒
Radiated Emissions						
R & S Receiver	ESIB 40	1018	08/07/2017	1 Year	08/07/2018	☒
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2017	1 Year	08/12/2018	☒
Horn Antenna (1GHz~26GHz)	3115	100059	08/25/2017	1 Year	08/25/2018	☒
RF Conducted Measurement						
Spectrum Analyzer	N9010A	10SL0219	08/20/2017	1 Year	08/20/2018	☒
R & S Receiver	ESIB 40	100179	06/08/2017	1 Year	06/08/2018	☒
ETS-Lingren USB RF Power Sensor	7002-006	10SL0190	09/03/2017	1 Year	09/03/2018	☒

Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1 , A2 , A3 , A4 , B1 , B2 , B3 , B4 , C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)		Phase I , Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
Korea CAB Accreditation		EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68 Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition		EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4 Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771 Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2