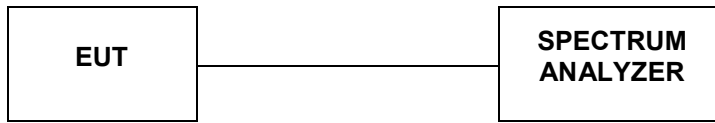


4.7. 26dBc Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

According to KDB789033 D02 General U-NII Test Procedures New Rules v02r01 for one of the following procedures may be used for Emission Bandwidth (EBW) measurement:

- a. Set RBW = 220 kHz/430 kHz /820 kHz (approximately 1% of the emission bandwidth).
- b. Set the video bandwidth (VBW) = 3* RBW)
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Sweep = auto couple.
- f. Allow the trace to stabilize
- g. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

LIMIT

No Limits for 26dBc Bandwidth

TEST RESULTS

Temperature	23.6°C	Humidity	55.7%
Test Engineer	Moon Tan	Configurations	IEEE 802.11a/n/ac

**RTL8822CU:
Antenna 0:**

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.524	18.600	-	Pass
	40	16.490	18.520		
	48	16.521	18.600		
802.11nHT20	36	17.642	19.560	-	Pass
	40	17.628	19.520		
	48	17.642	19.560		
802.11ac20	36	17.643	41.280	-	Pass
	40	17.626	41.280		
	48	17.637	19.600		
802.11n40	38	36.406	19.520	-	Pass
	46	36.448	19.560		
802.11ac40	38	36.457	41.440	-	Pass
	46	36.427	41.200		
802.11ac80	42	74.951	81.120	-	Pass

Antenna 1:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.552	18.520	-	Pass
	40	16.530	18.440		
	48	16.547	18.560		
802.11nHT20	36	17.645	19.520	-	Pass
	40	17.634	19.480		
	48	17.645	19.560		
802.11ac20	36	17.658	41.440	-	Pass
	40	17.643	40.960		
	48	17.651	19.520		
802.11n40	38	36.437	19.560	-	Pass
	46	36.490	19.480		
802.11ac40	38	36.494	41.200	-	Pass
	46	36.806	41.600		
802.11ac80	42	75.013	81.280	-	Pass

MT7668BU:

Antenna 0:

Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	17.104	20.120	-	Pass
	40	17.060	20.480		
	48	17.161	24.560		
802.11nHT20	36	18.036	20.800	-	Pass
	40	18.018	22.120		
	48	18.077	21.480		
802.11ac20	36	17.886	50.720	-	Pass
	40	17.886	62.240		
	48	17.932	20.200		
802.11n40	38	36.794	20.160	-	Pass
	46	36.880	20.320		
802.11ac40	38	36.783	46.560	-	Pass
	46	36.858	47.280		
802.11ac80	42	76.684	120.320	-	Pass

Antenna 1:

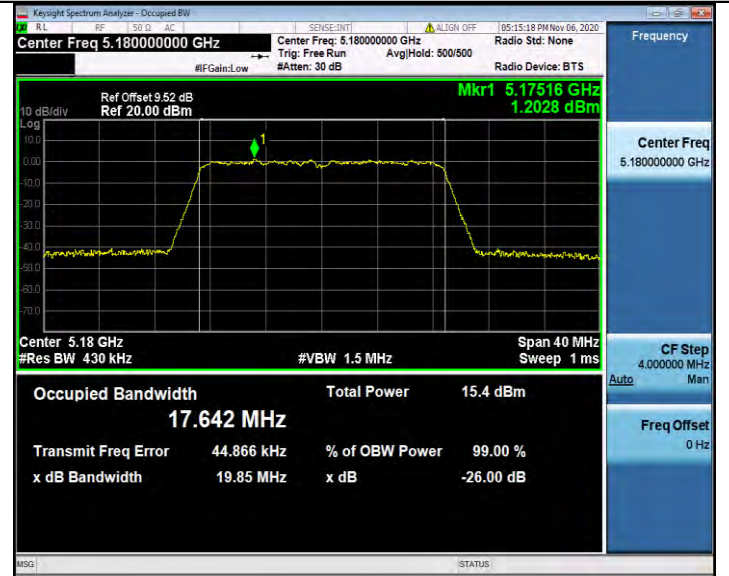
Type	Channel	99%Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	36	16.597	19.760	-	Pass
	40	16.621	19.640		
	48	16.608	19.600		
802.11nHT20	36	17.636	20.360	-	Pass
	40	17.628	20.360		
	48	17.644	20.680		
802.11ac20	36	17.700	40.160	-	Pass
	40	17.700	40.000		
	48	17.704	20.040		
802.11n40	38	36.631	20.160	-	Pass
	46	36.591	20.200		
802.11ac40	38	36.367	40.160	-	Pass
	46	36.494	40.320		
802.11ac80	42	76.233	106.080	-	Pass

RTL8822CU: Antenna 0:

99%Bandwidth

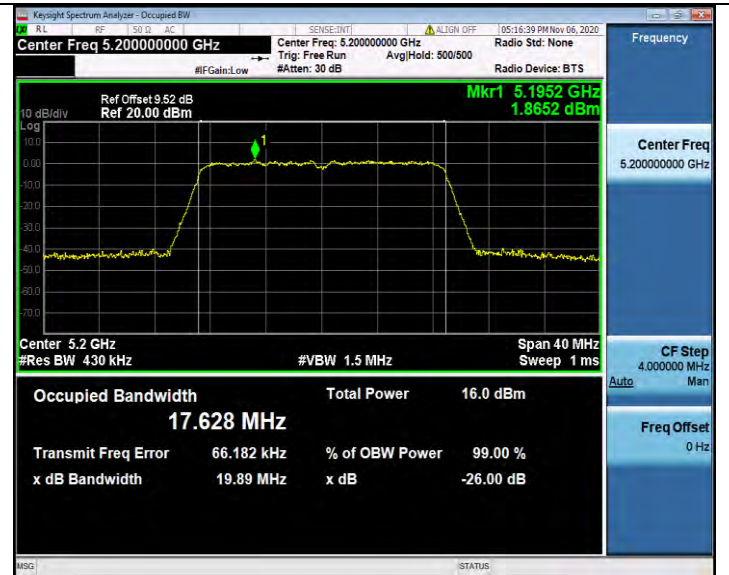
802.11a

802.11n HT20



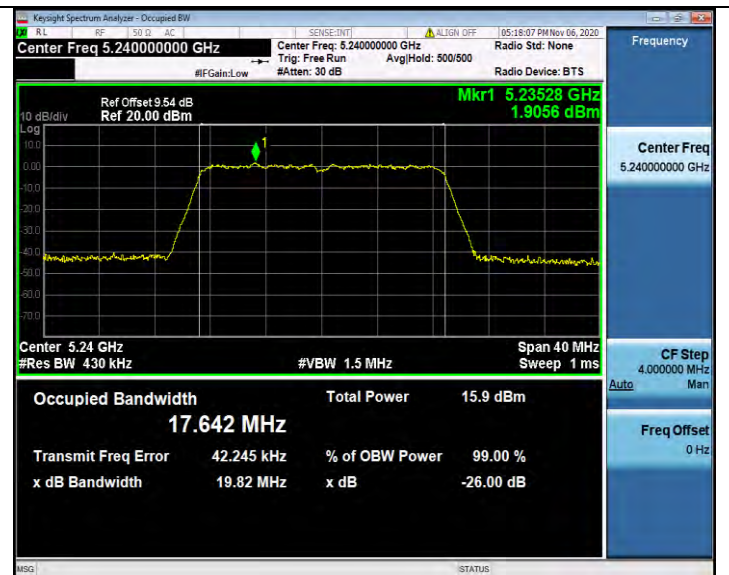
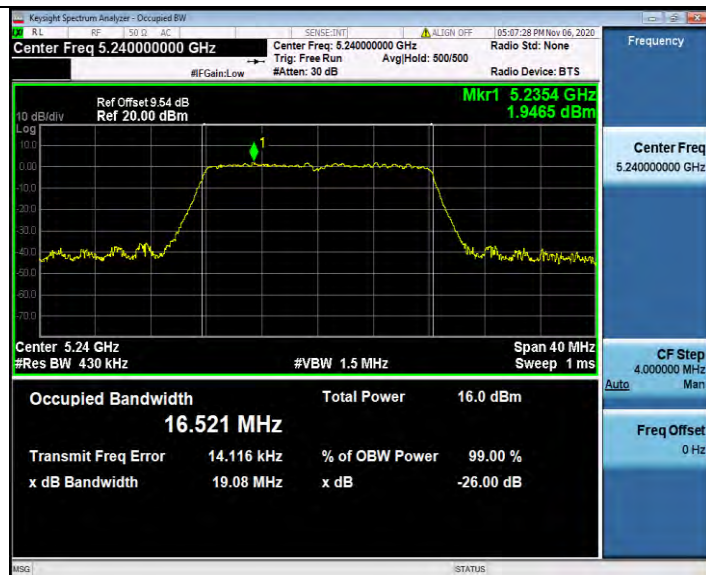
CH36

CH36



CH40

CH40



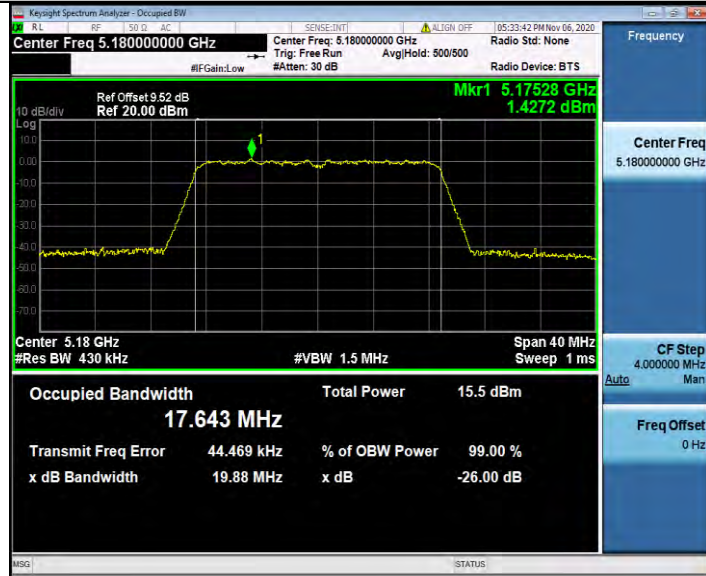
CH48

CH48

99%Bandwidth

802.11ac20

802.11n HT40



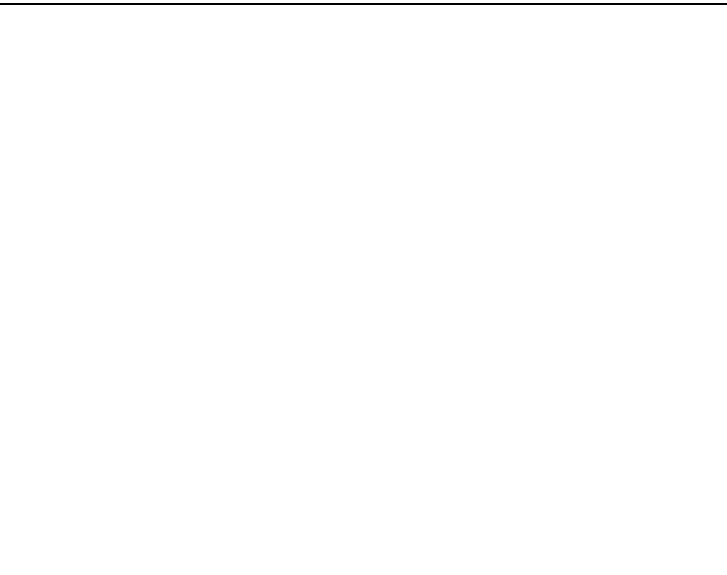
CH36

CH38



CH40

CH46

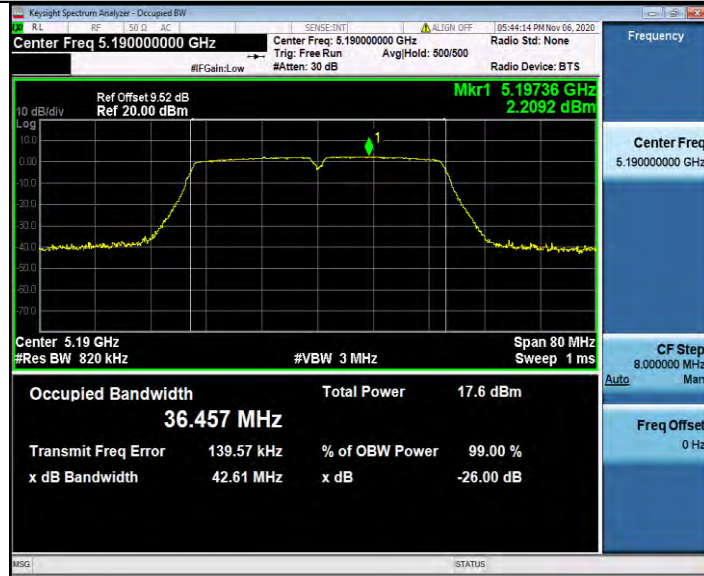


CH48

99%Bandwidth

802.11ac40

802.11ac80



CH38

CH42



CH46

26dB Bandwidth

802.11a

802.11n HT20



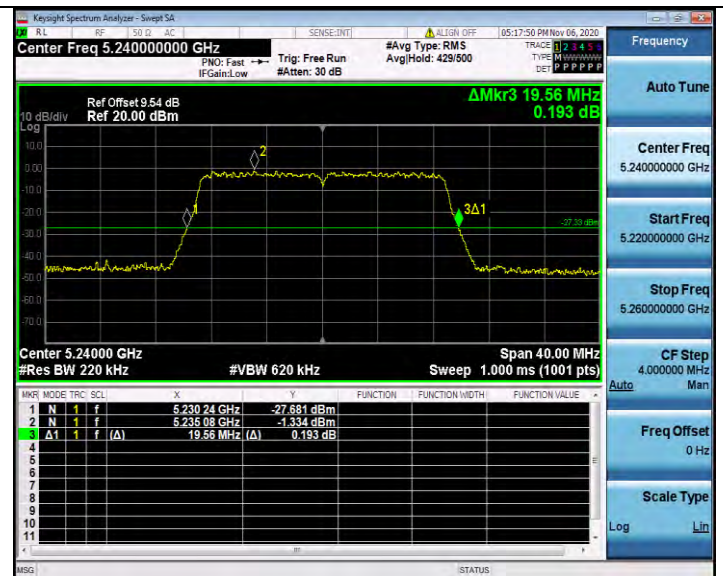
CH36

CH36



CH40

CH40



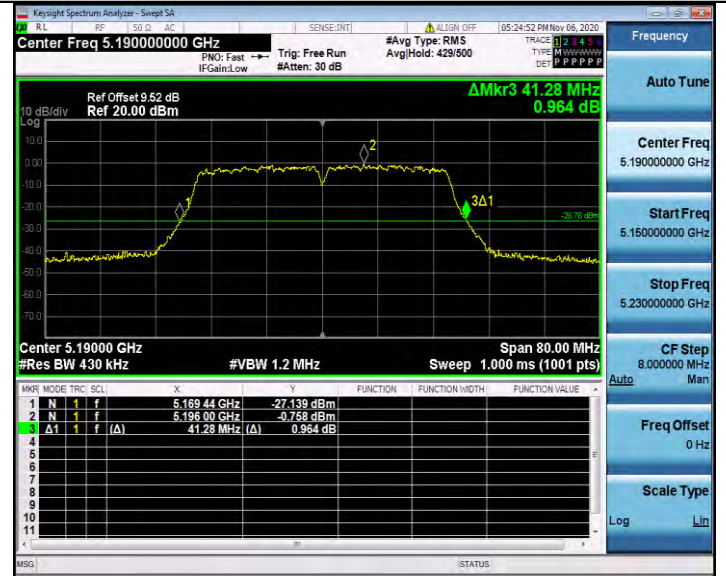
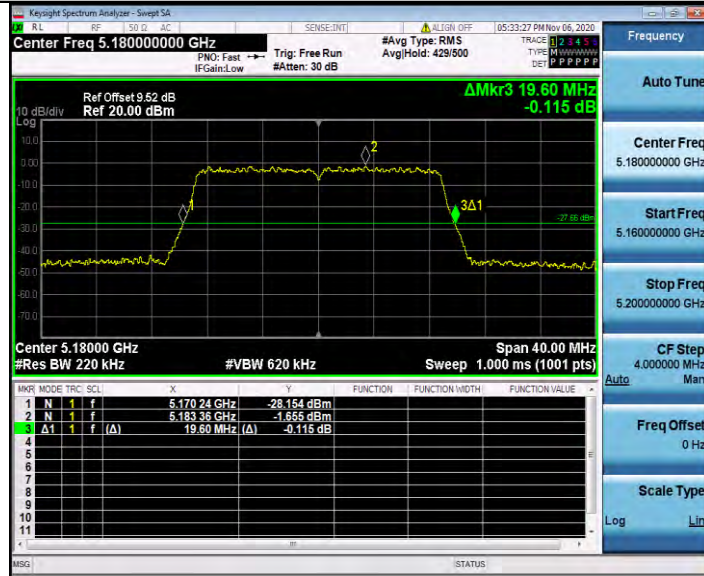
CH48

CH48

26dB Bandwidth

802.11ac20

802.11n HT40



CH36

CH38



CH40

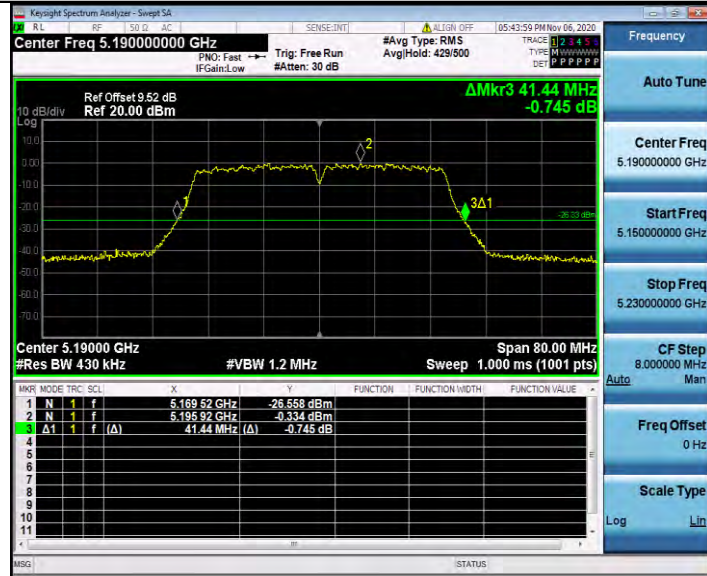
CH46



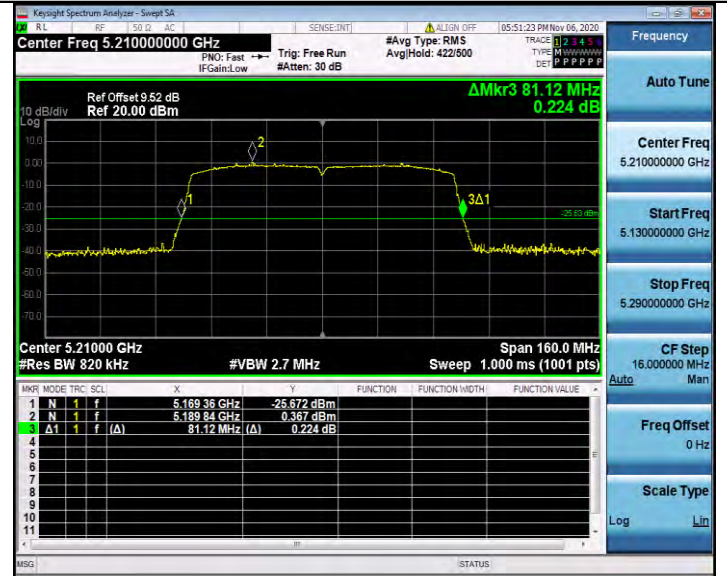
CH48

26dB Bandwidth

802.11ac40



802.11ac80



CH38



CH42



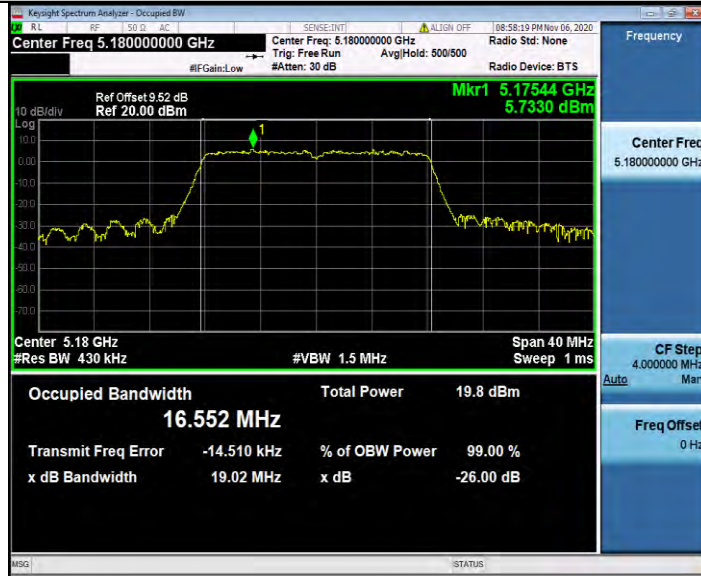
CH46

Antenna 1:

99%Bandwidth

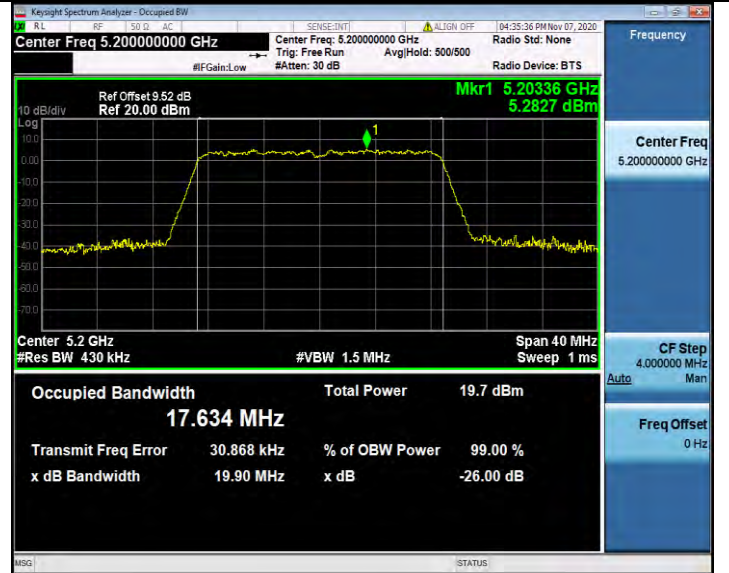
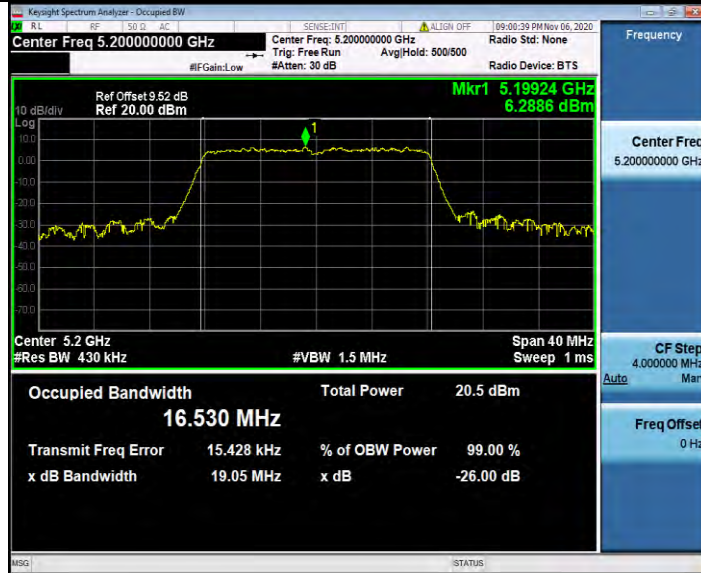
802.11a

802.11n HT20



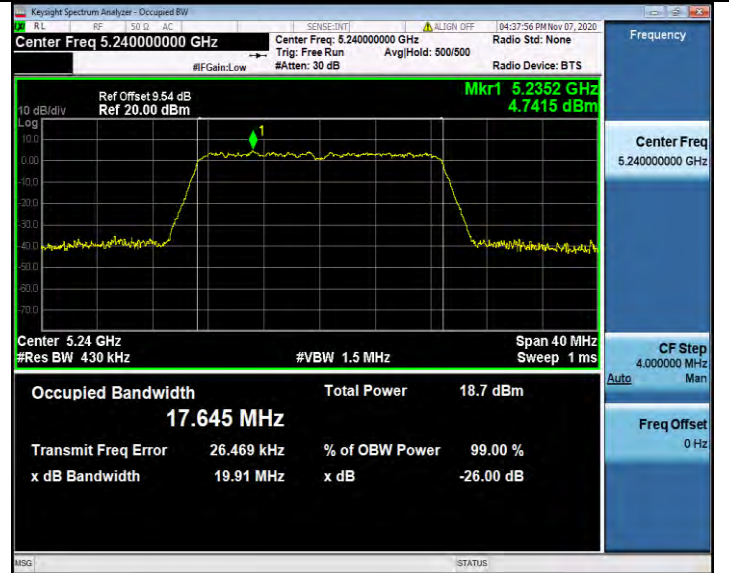
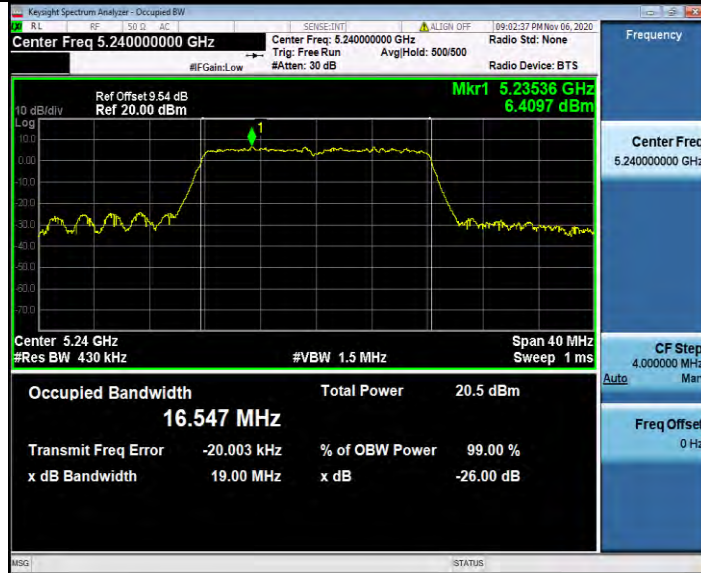
CH36

CH36



CH40

CH40



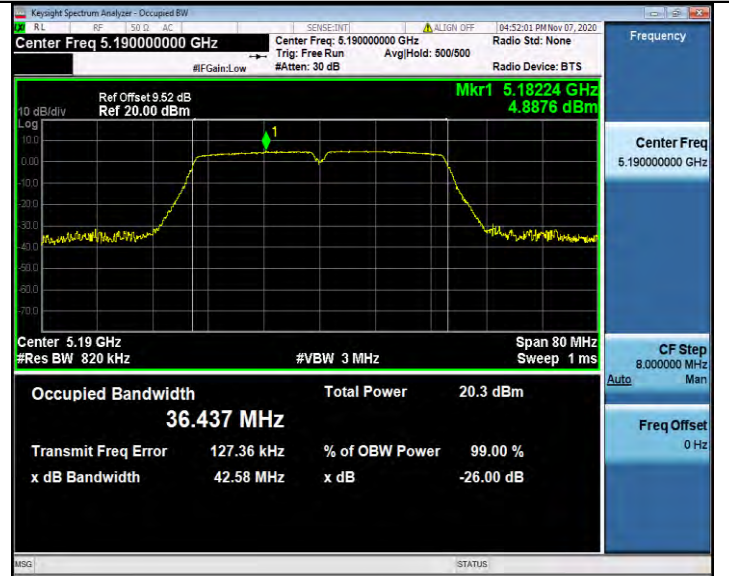
CH48

CH48

99%Bandwidth

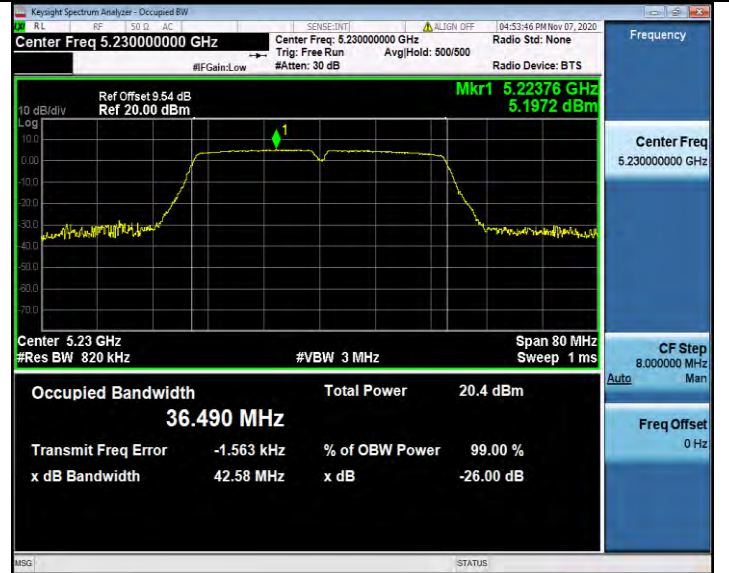
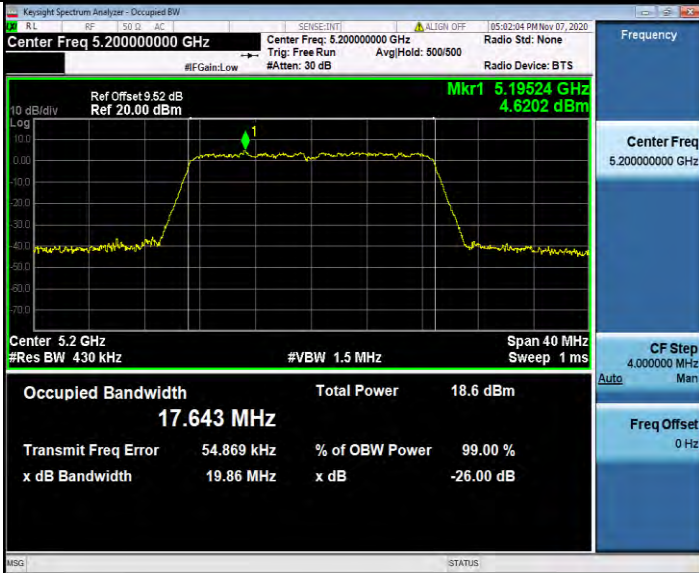
802.11ac20

802.11n HT40



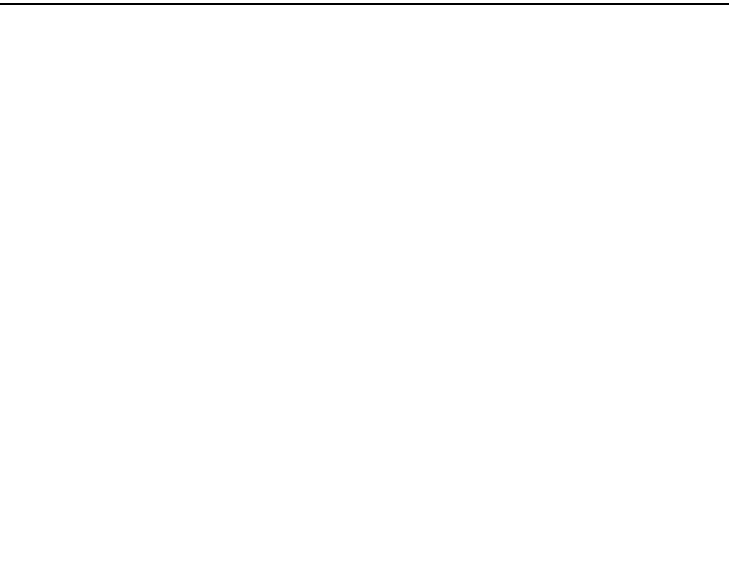
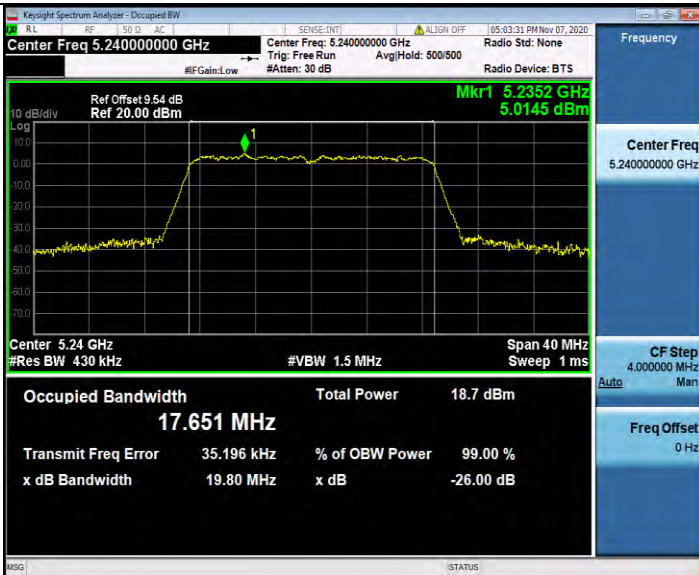
CH36

CH38



CH40

CH46

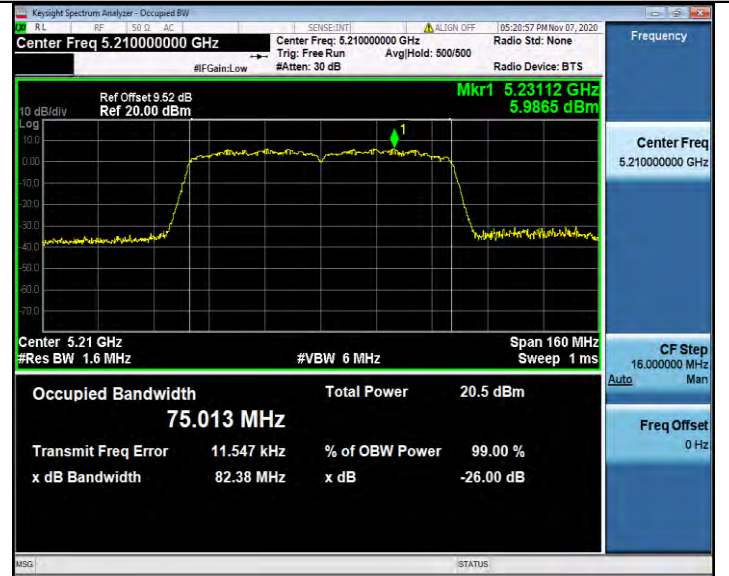


CH48

99%Bandwidth

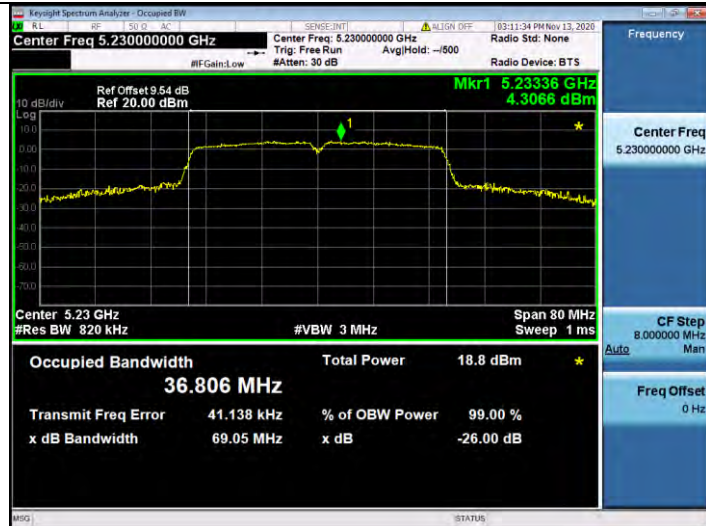
802.11ac40

802.11ac80

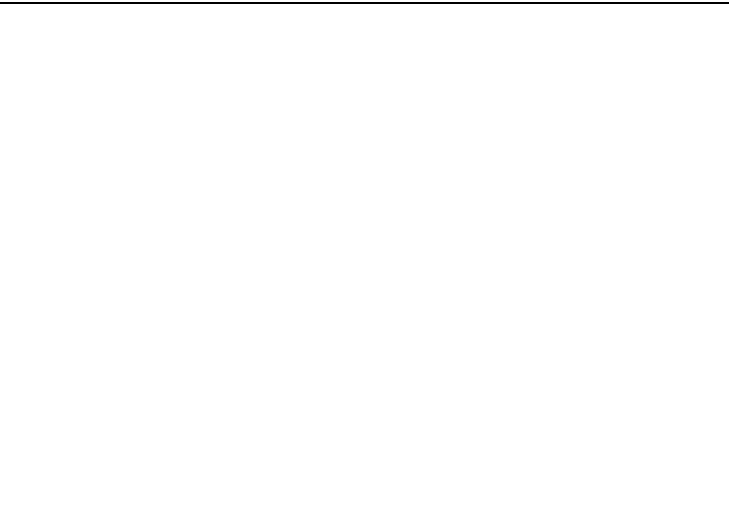


CH38

CH42



CH46



26dB Bandwidth

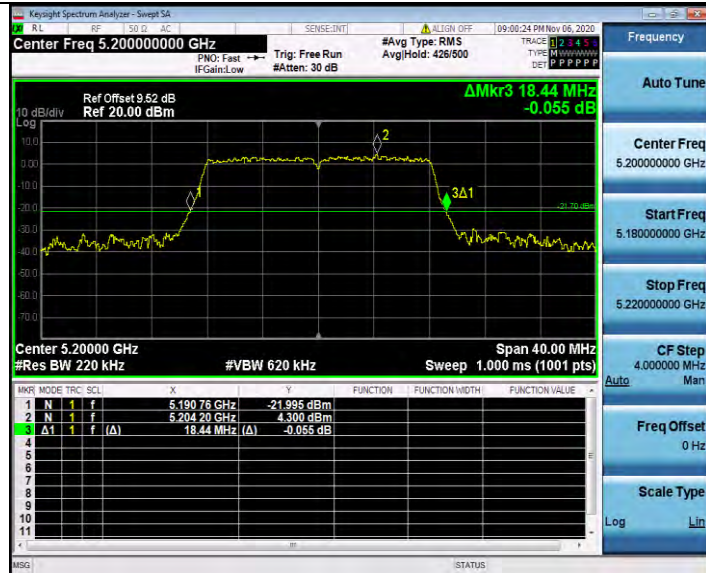
802.11a

802.11n HT20



CH36

CH36



CH40

CH40



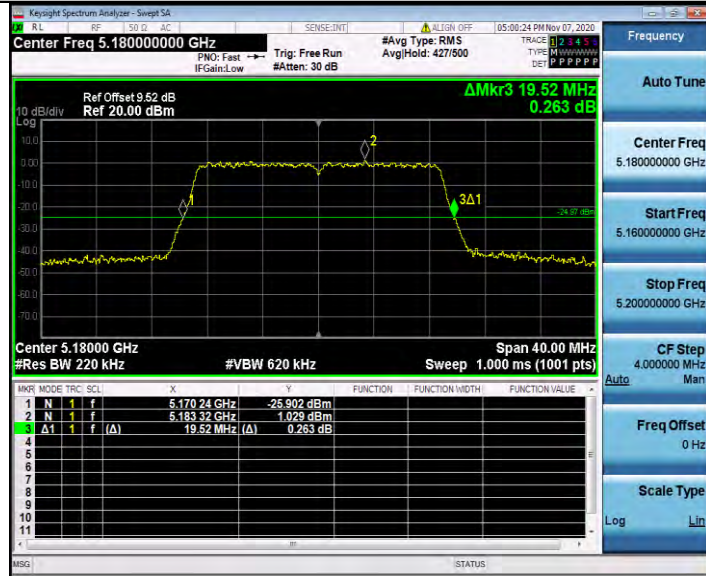
CH48

CH48

26dB Bandwidth

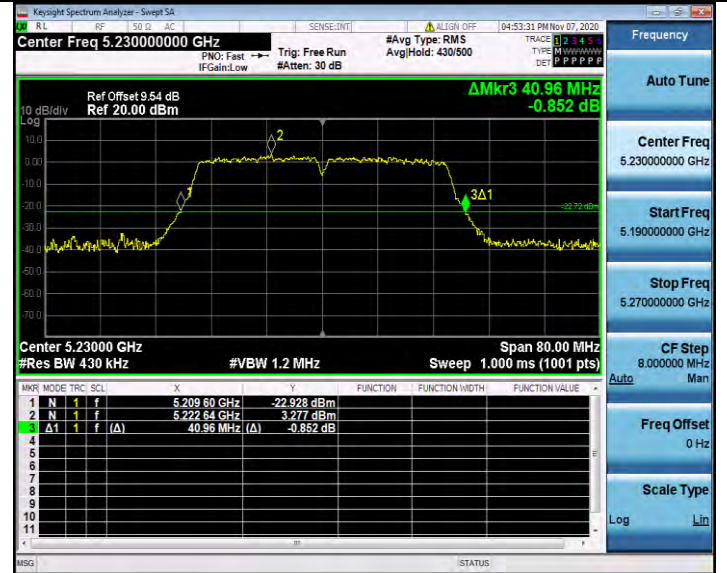
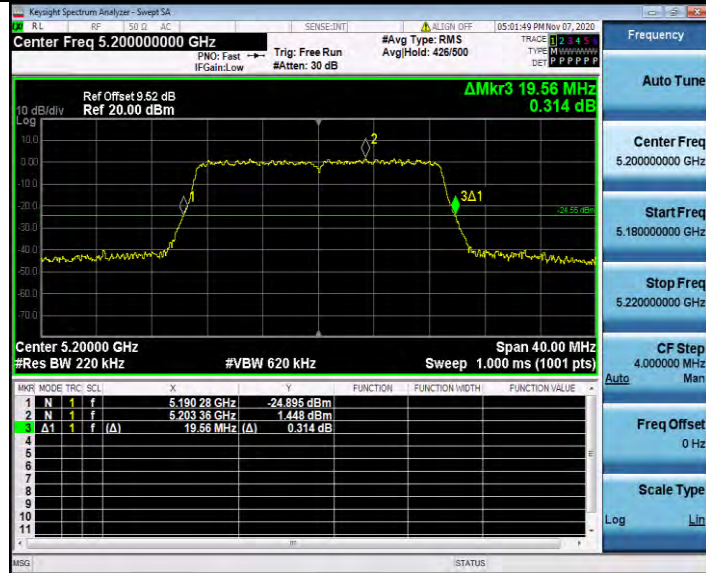
802.11ac20

802.11n HT40



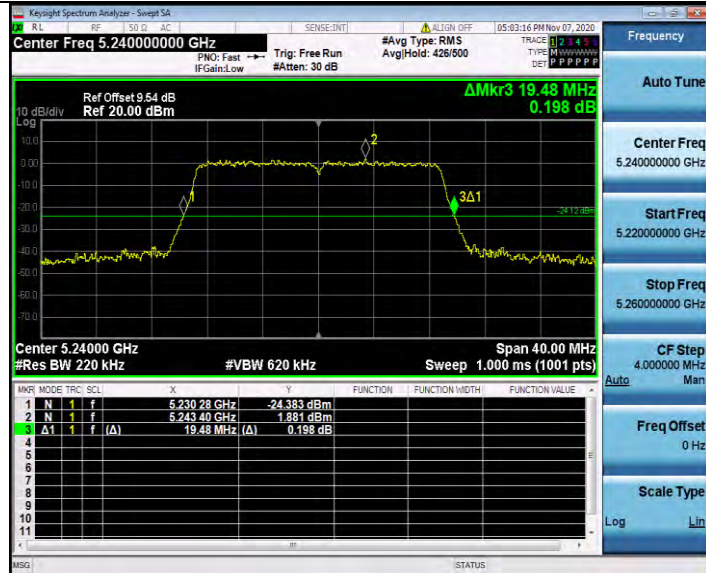
CH36

CH38



CH40

CH46

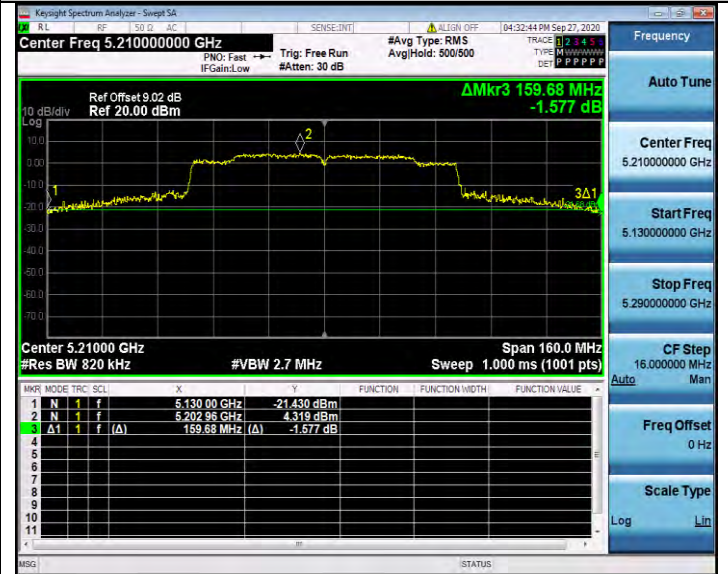


CH48

26dB Bandwidth

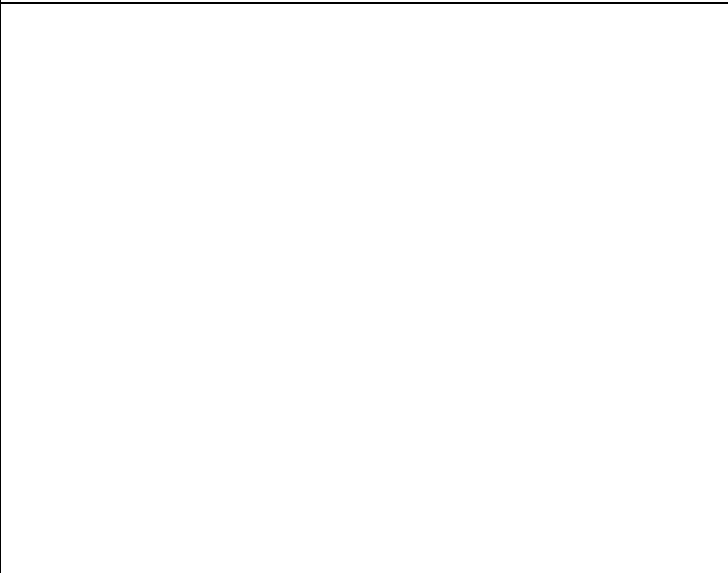
802.11ac40

802.11ac80



CH38

CH42



CH46

MT7668BU: Antenna 0:

99%Bandwidth

802.11a

802.11n HT20



CH36

CH36



CH40

CH40



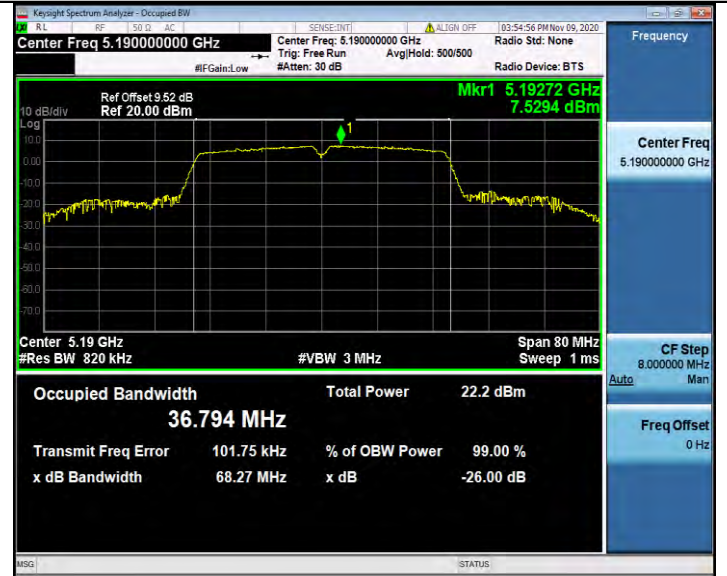
CH48

CH48

99%Bandwidth

802.11ac20

802.11n HT40



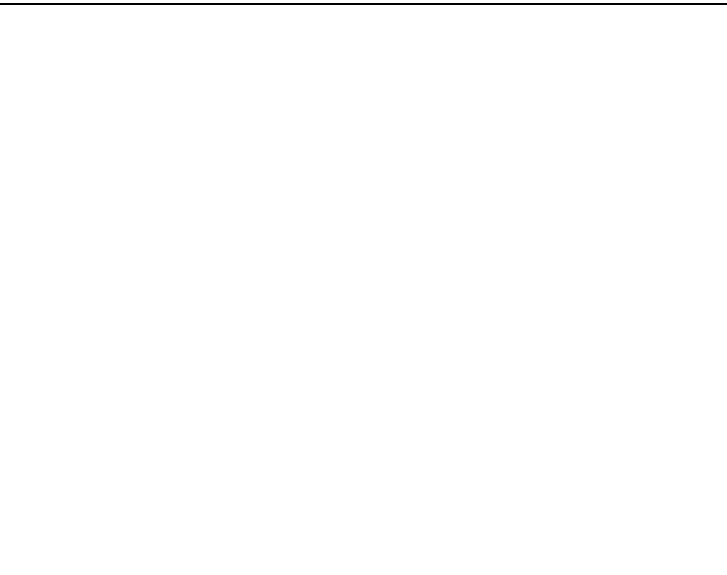
CH36

CH38



CH40

CH46

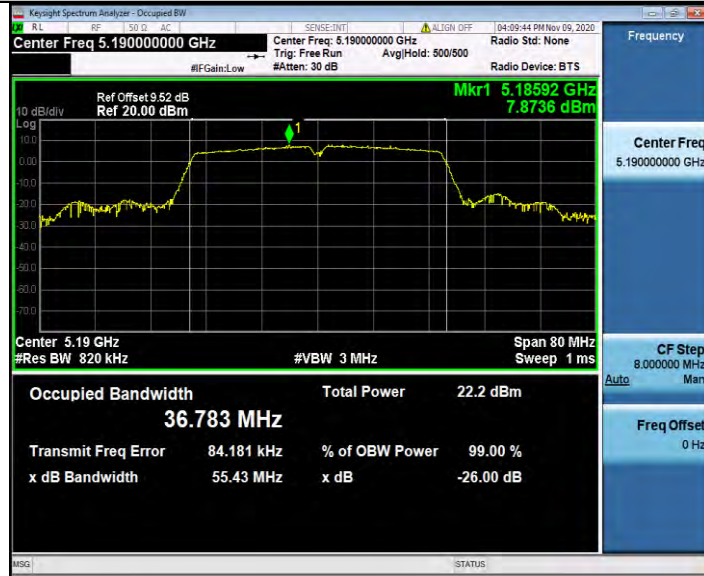


CH48

99%Bandwidth

802.11ac40

802.11ac80

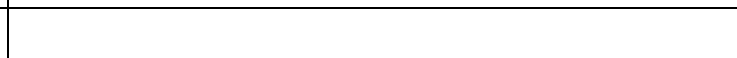


CH38

CH42



CH46



26dB Bandwidth

802.11a

802.11n HT20



CH36

CH36



CH40

CH40



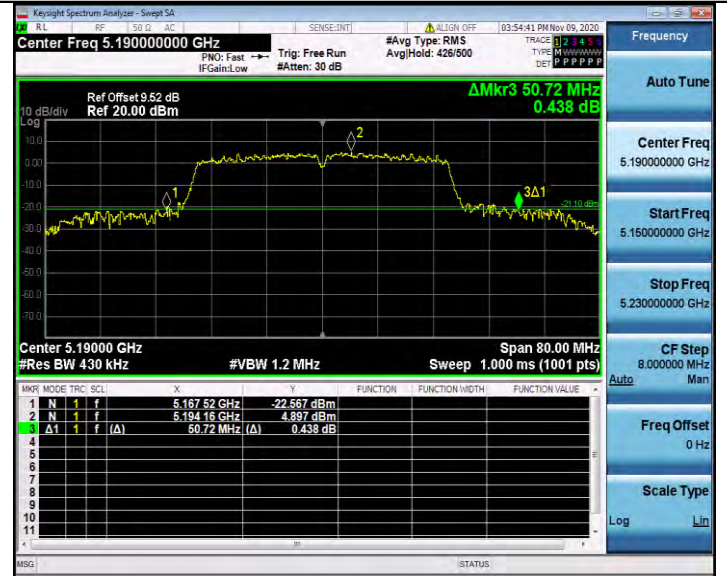
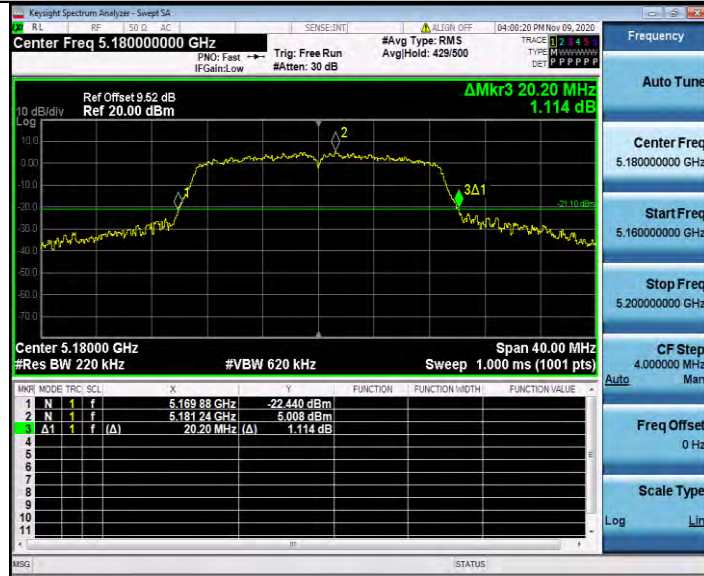
CH48

CH48

26dB Bandwidth

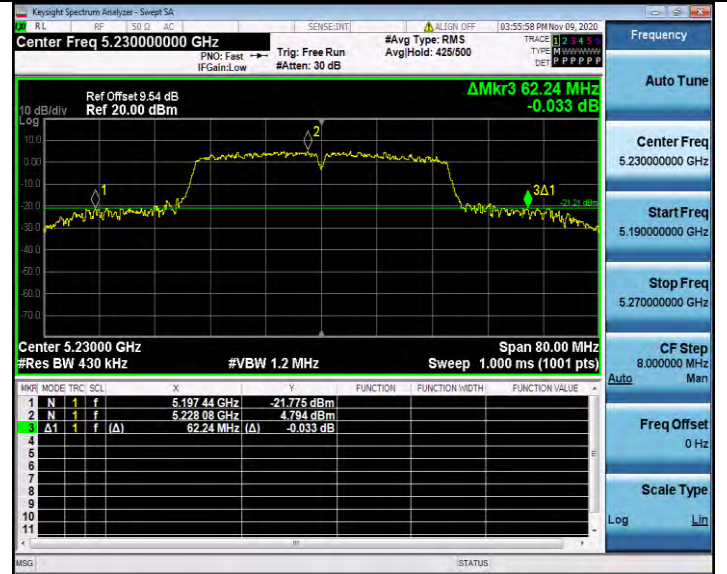
802.11ac20

802.11n HT40



CH36

CH38



CH40

CH46

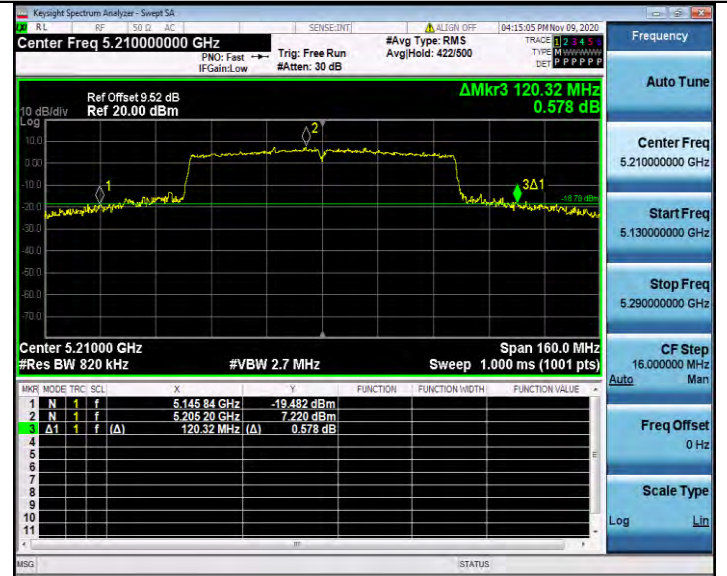


CH48

26dB Bandwidth

802.11ac40

802.11ac80



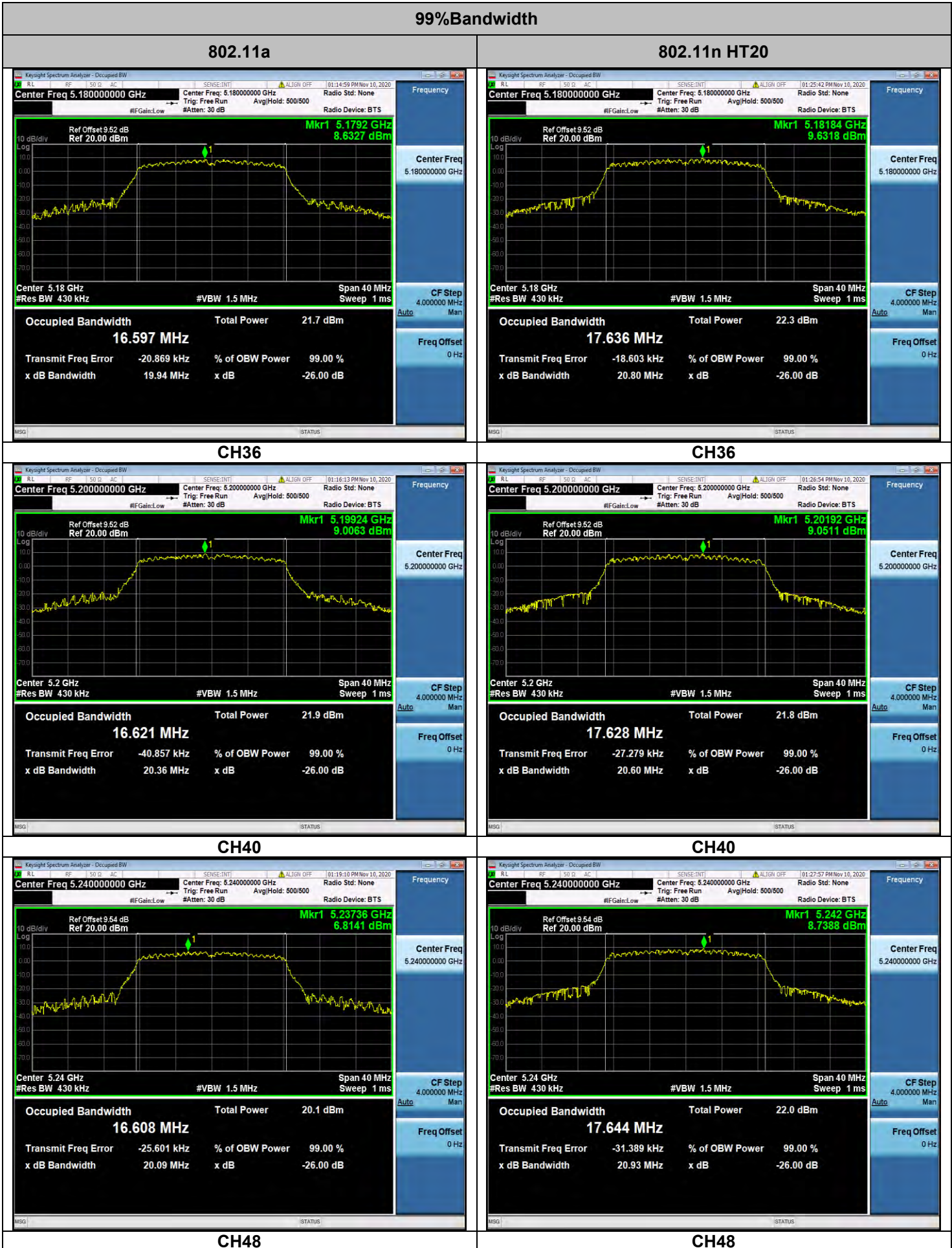
CH38

CH42



CH46

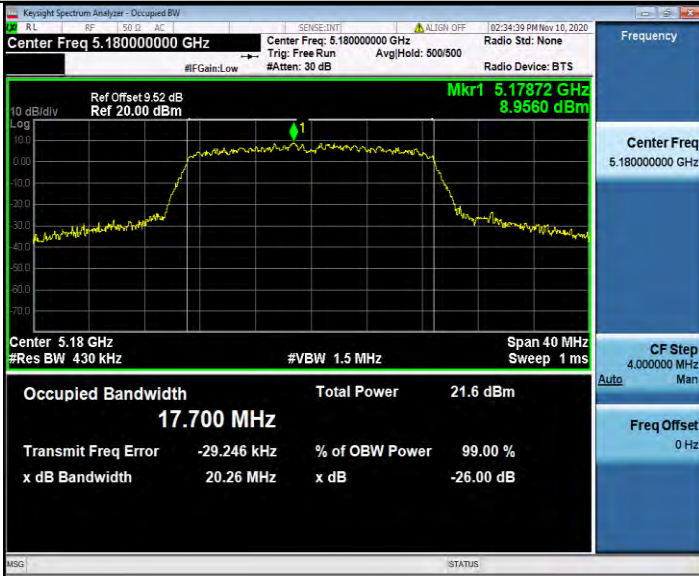
Antenna 1:



99%Bandwidth

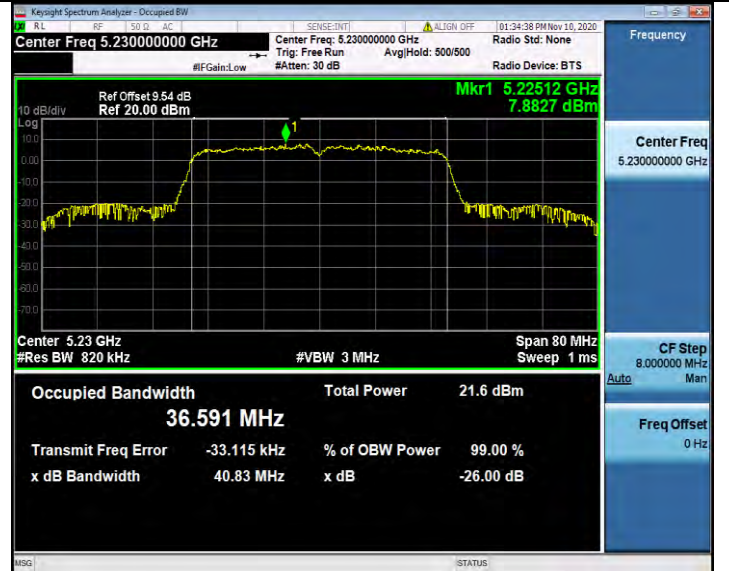
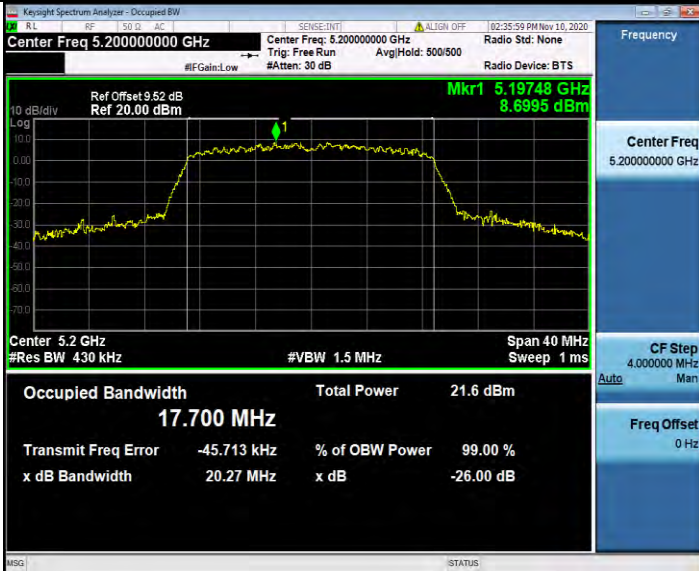
802.11ac20

802.11n HT40



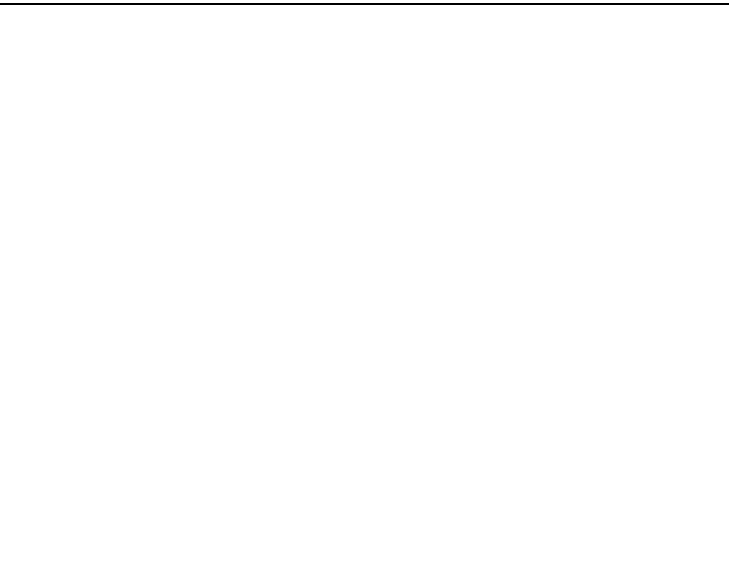
CH36

CH38



CH40

CH46



CH48

99%Bandwidth

802.11ac40

802.11ac80



CH38

CH42

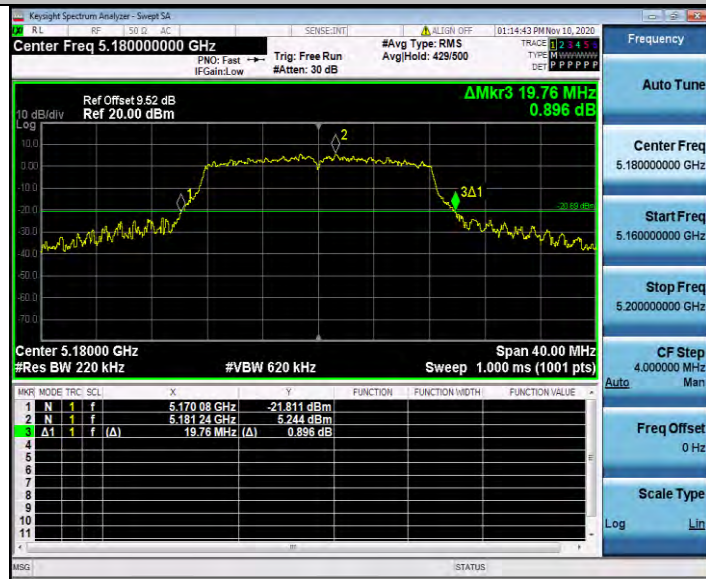


CH46

26dB Bandwidth

802.11a

802.11n HT20



CH36

CH36



CH40

CH40



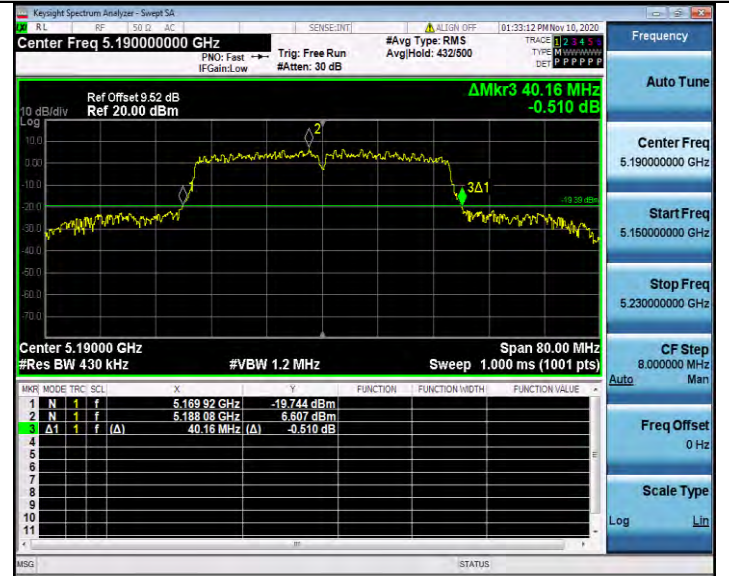
CH48

CH48

26dB Bandwidth

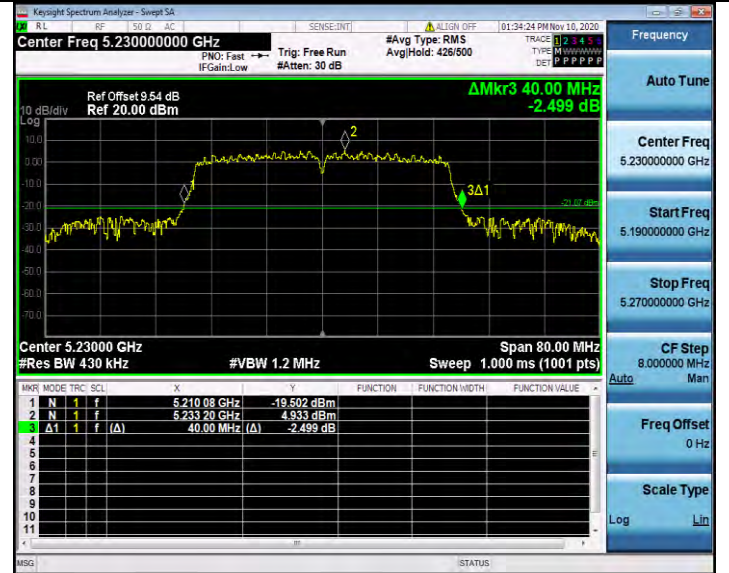
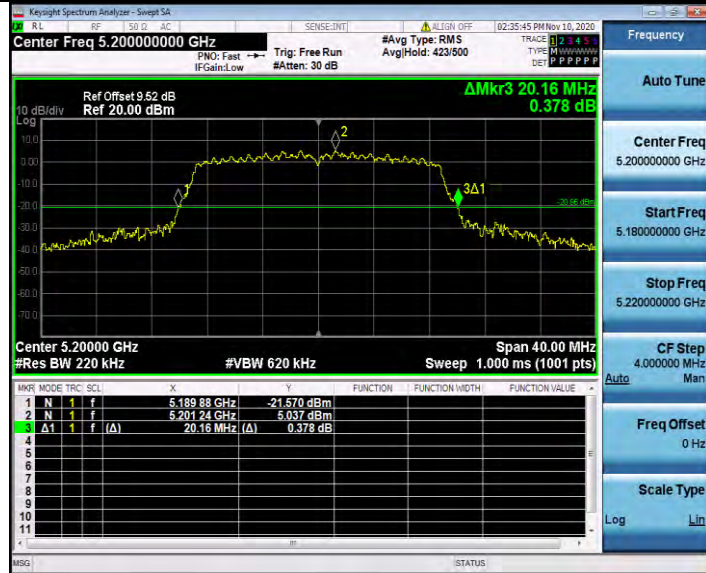
802.11ac20

802.11n HT40



CH36

CH38



CH40

CH46



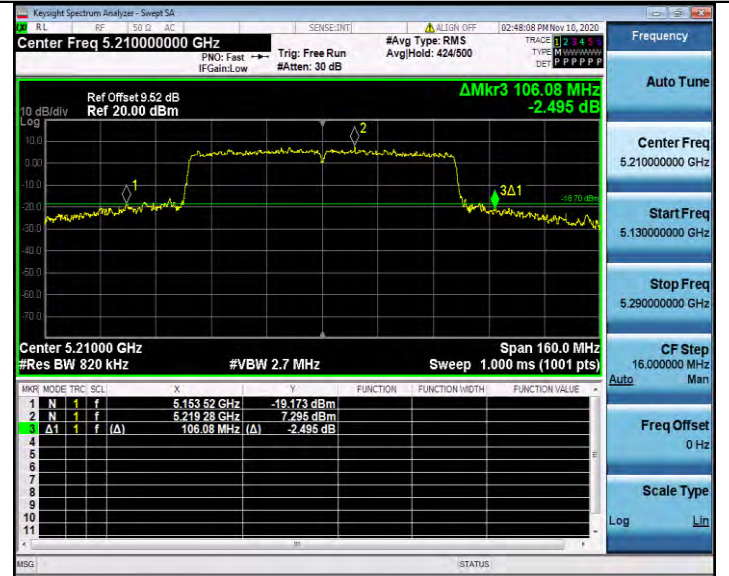
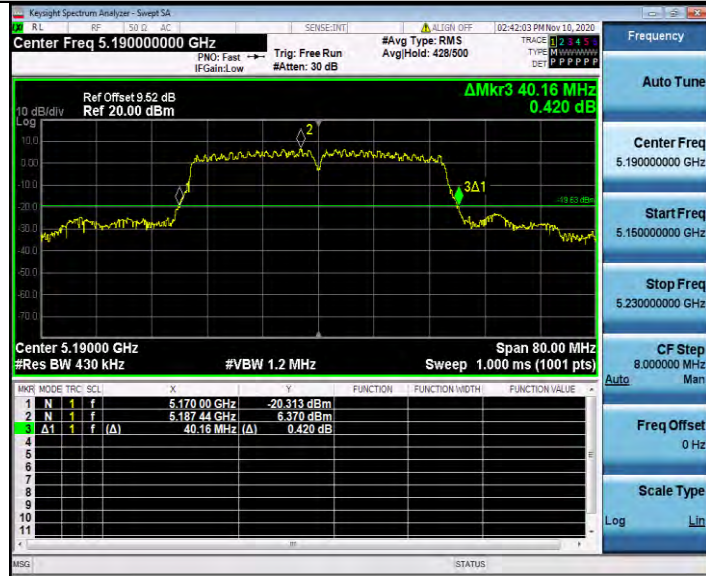
CH48



26dB Bandwidth

802.11ac40

802.11ac80



CH38

CH42



CH46