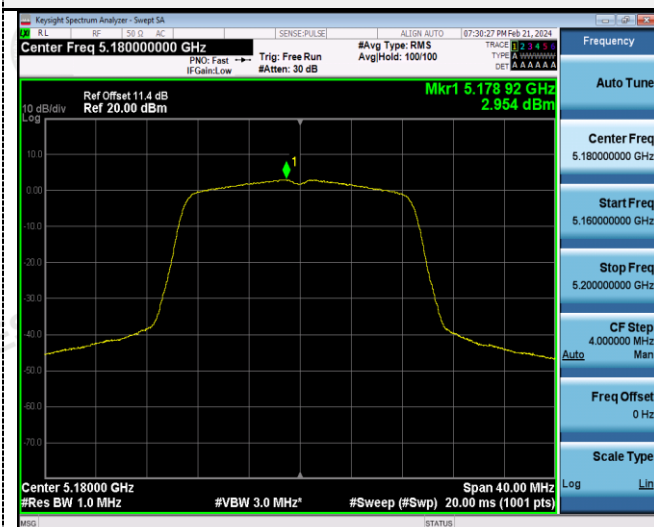


802.11ac(HT20)

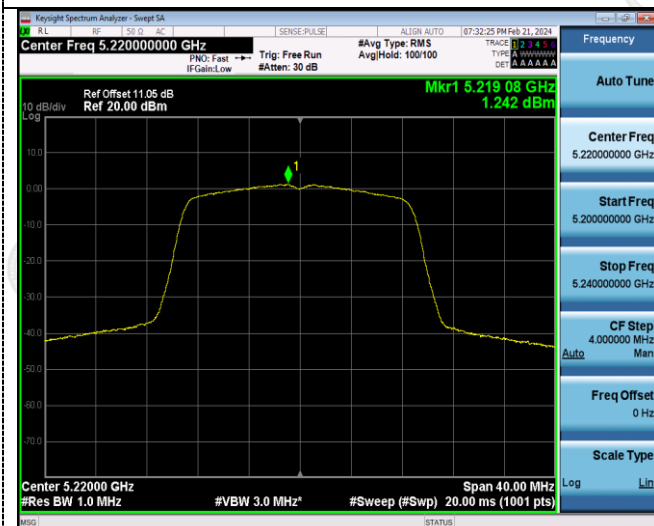
U-NII 1



U-NII 3



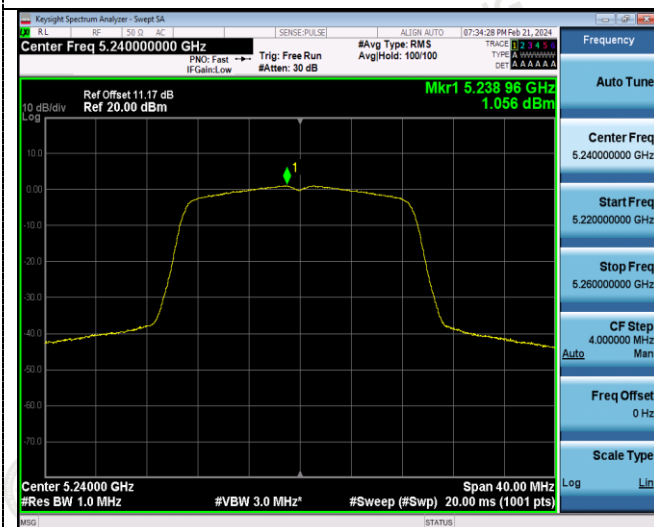
CH36



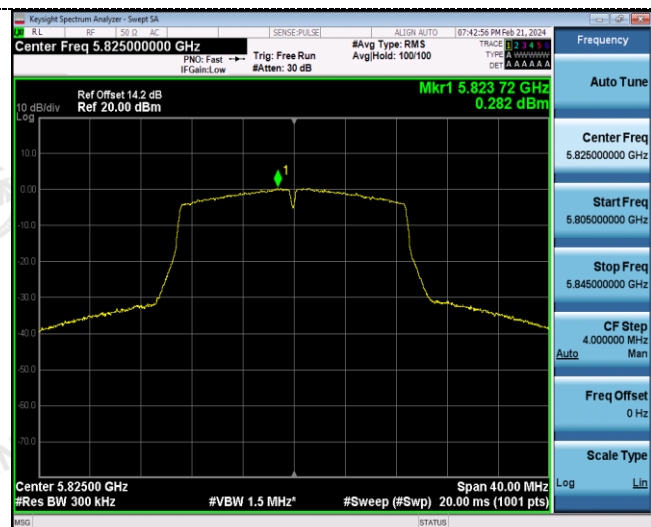
CH149



CH40



CH157

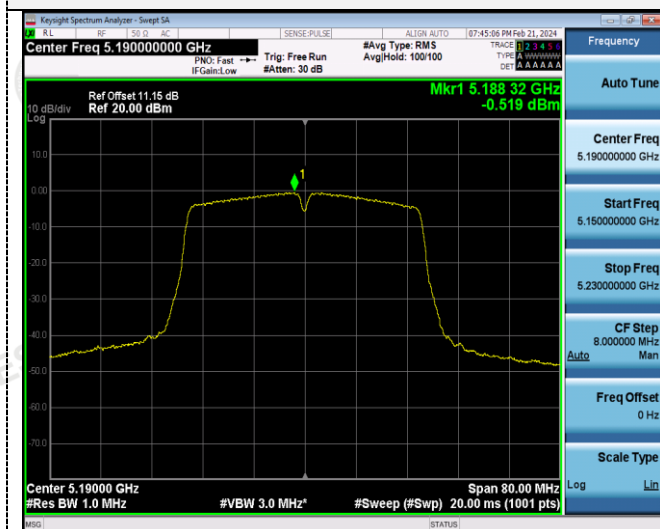


CH48

CH165

802.11ac(HT40)

U-NII 1



U-NII 3



CH38



CH151



CH46

CH159

802.11ac(HT80)

U-NII 1



U-NII 3



CH42

CH155

4.5 Emission Bandwidth (26dB Bandwidth)

Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak 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 %.

Test Configuration



Test Results

ANT 1

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.760	N/A	Pass
		44	19.880		
		48	20.480		
802.11n(HT20)	U-NII 1	36	20.200		
		44	20.240		
		48	20.440		
802.11n(HT40)	U-NII 1	38	40.080		
		46	40.160		
802.11ac(HT20)	U-NII 1	36	20.160		
		44	20.160		
		48	20.040		
802.11ac(HT40)	U-NII 1	38	39.840		
		46	40.720		
802.11ac(HT80)	U-NII 1	42	80.960		

ANT 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.760	N/A	Pass
		44	20.000		
		48	19.680		
802.11n(HT20)	U-NII 1	36	20.240		
		44	20.120		
		48	20.080		
802.11n(HT40)	U-NII 1	38	40.320		
		46	40.640		
802.11ac(HT20)	U-NII 1	36	20.200		
		44	20.160		
		48	19.920		
802.11ac(HT40)	U-NII 1	38	40.240		
		46	40.160		
802.11ac(HT80)	U-NII 1	42	80.640		

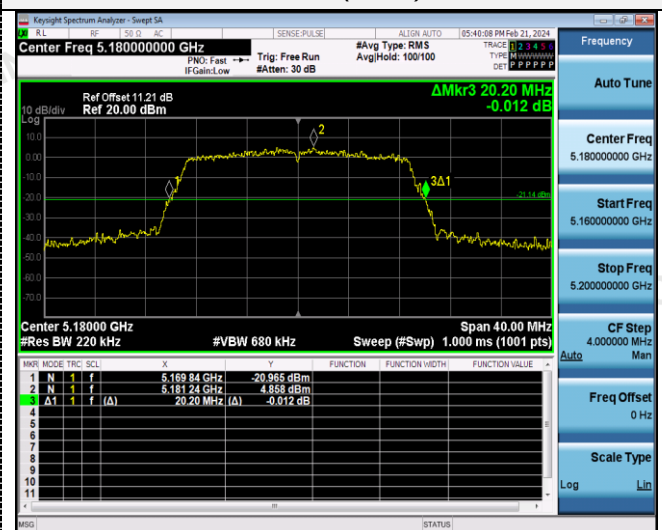
Test plot as follows:

ANT 1

802.11a



802.11n(HT20)



CH36



CH36



CH40



CH40



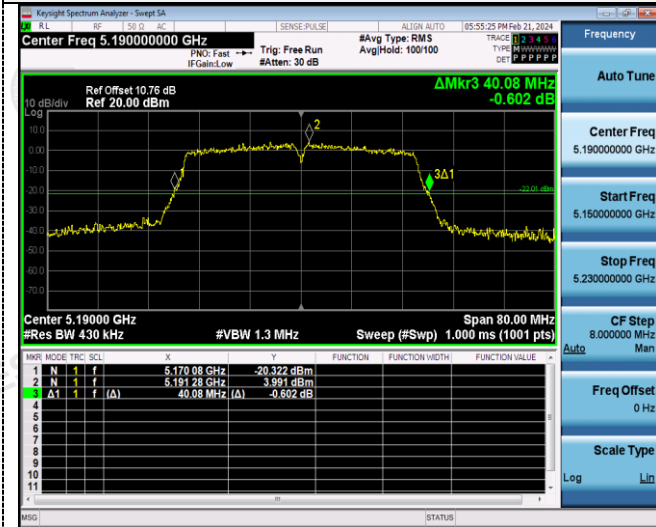
CH48



CH48



802.11n(HT40)



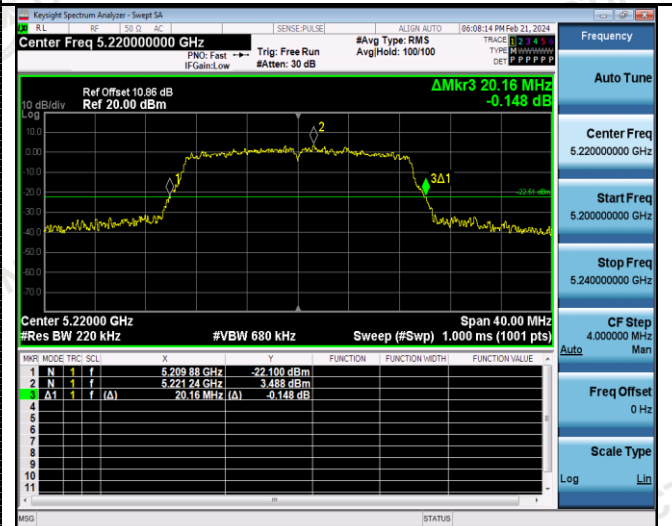
802.11ac(HT20)



CH38



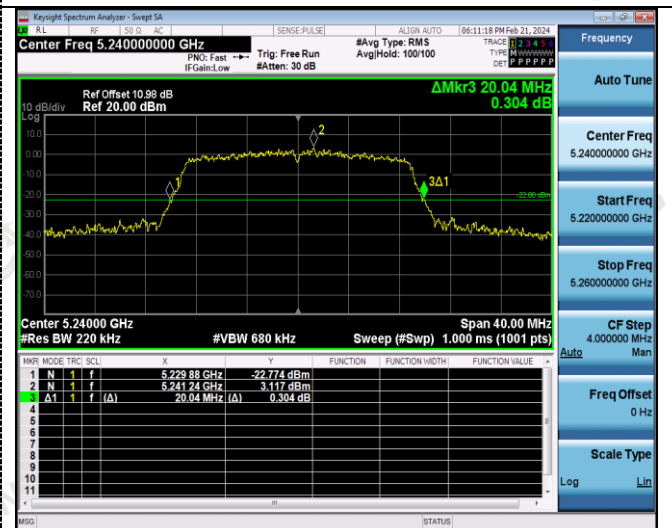
CH36



CH46

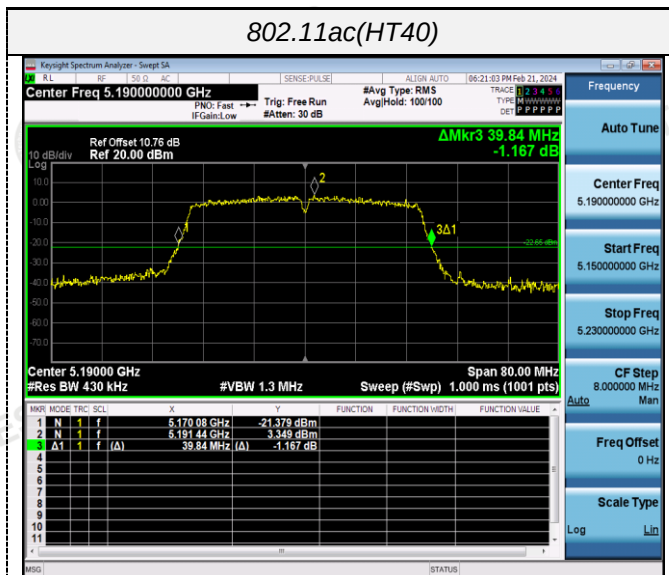


CH40

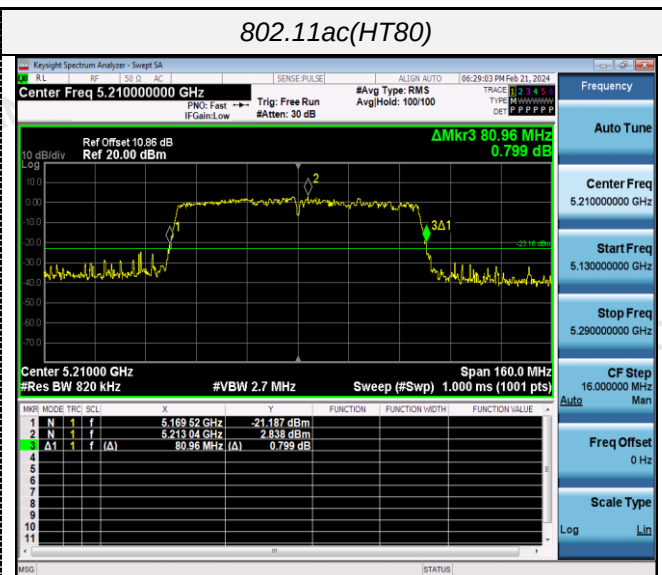


CH48

802.11ac(HT40)



802.11ac(HT80)



CH38



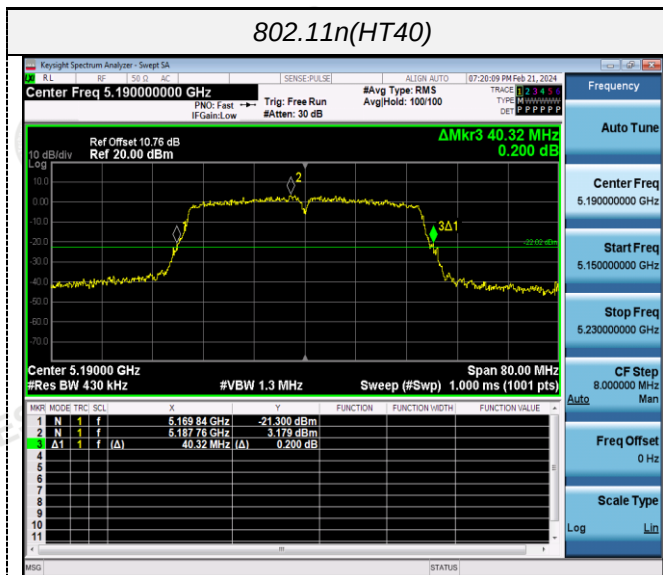
CH46

CH42

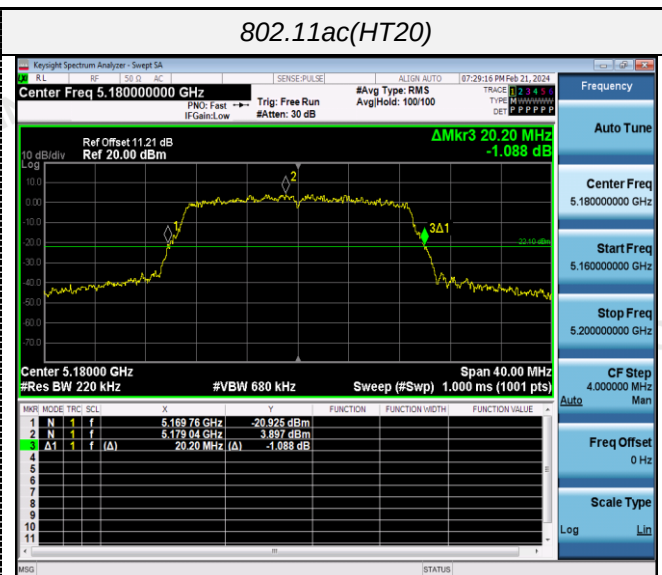
ANT 2



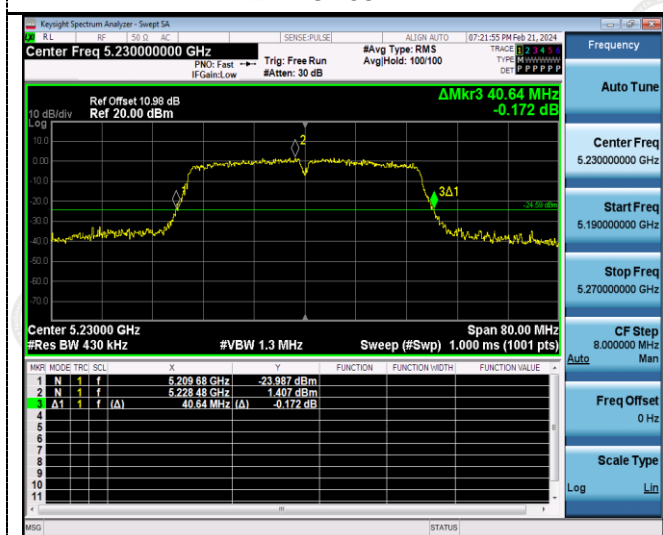
802.11n(HT40)



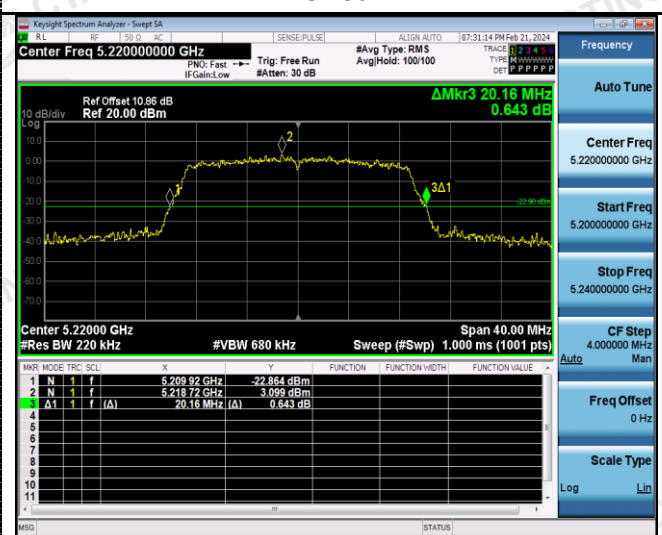
802.11ac(HT20)



CH38



CH36



CH46

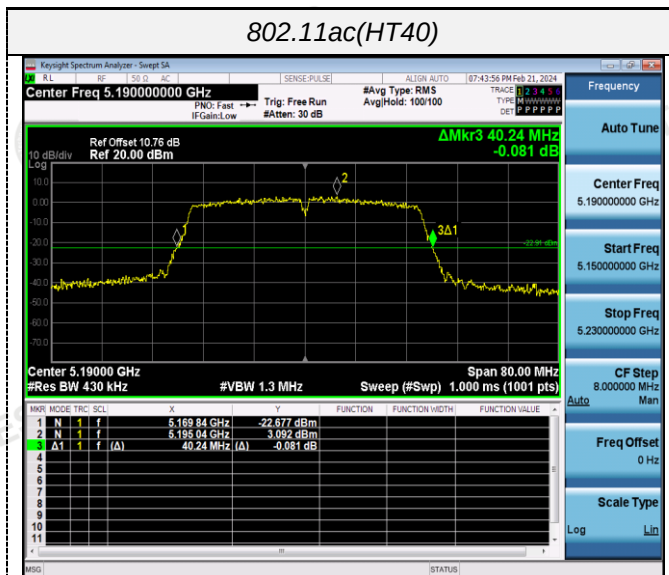


CH40

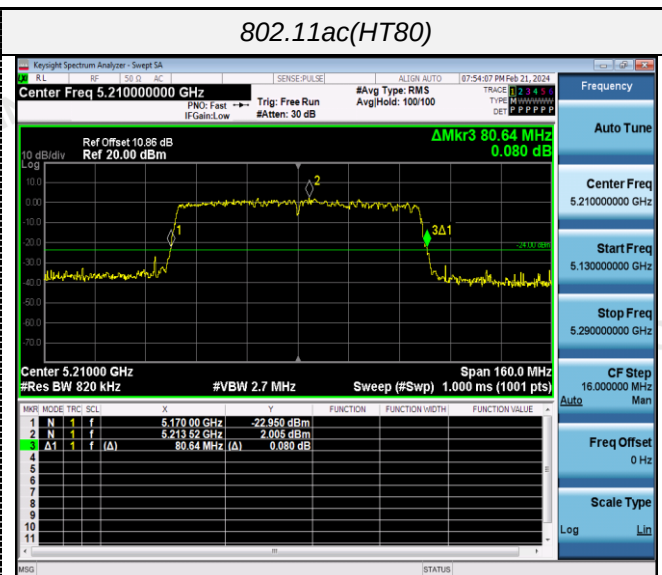


CH48

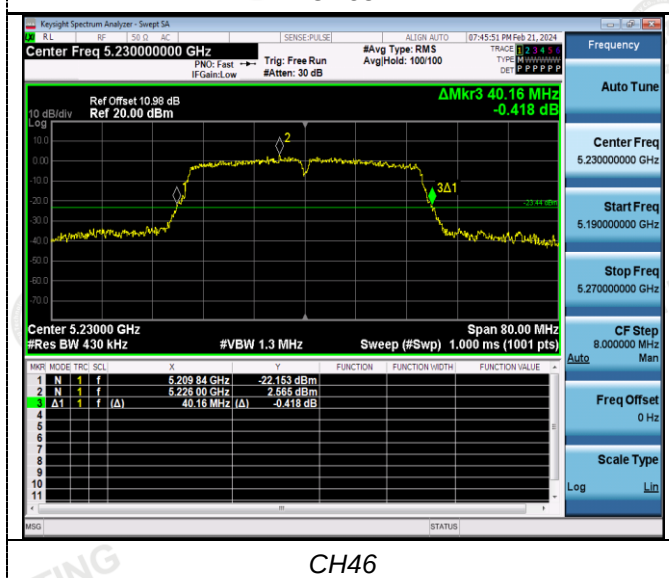
802.11ac(HT40)



802.11ac(HT80)



CH38



CH42



CH46

4.6 Minimum Emission Bandwidth (6dB Bandwidth)

Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Configuration



Test Results

ANT 1

Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	15.280	≥500KHz	Pass
		157	14.600		
		165	12.720		
802.11n(HT20)	U-NII 3	149	15.080		
		157	13.880		
		165	15.120		
802.11n(HT40)	U-NII 3	151	35.040		
		159	34.960		
802.11ac(HT20)	U-NII 3	149	15.040		
		157	15.120		
		165	13.760		
802.11ac(HT40)	U-NII 3	151	33.840		
		159	33.840		
802.11ac(HT80)	U-NII 3	155	75.040		

ANT 2

Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	14.320	≥500KHz	Pass
		157	14.760		
		165	14.400		
802.11n(HT20)	U-NII 3	149	15.120		
		157	13.840		
		165	15.080		
802.11n(HT40)	U-NII 3	151	35.040		
		159	35.120		
802.11ac(HT20)	U-NII 3	149	15.040		
		157	17.560		
		165	15.040		
802.11ac(HT40)	U-NII 3	151	35.040		
		159	34.960		
802.11ac(HT80)	U-NII 3	155	73.760		

Test plot as follows: