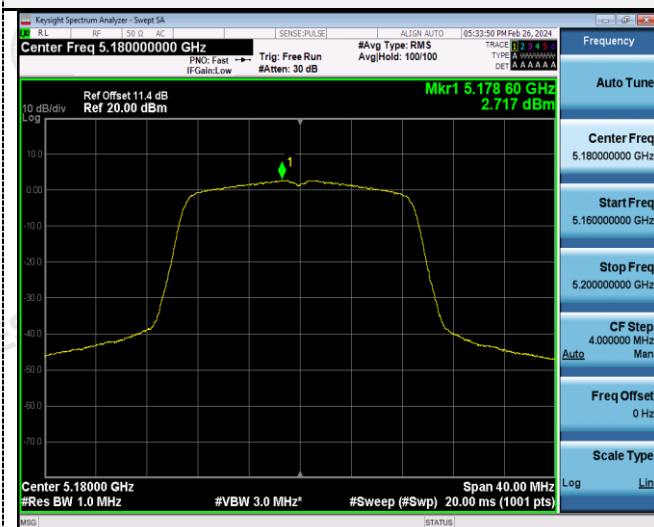


802.11ac(HT20)

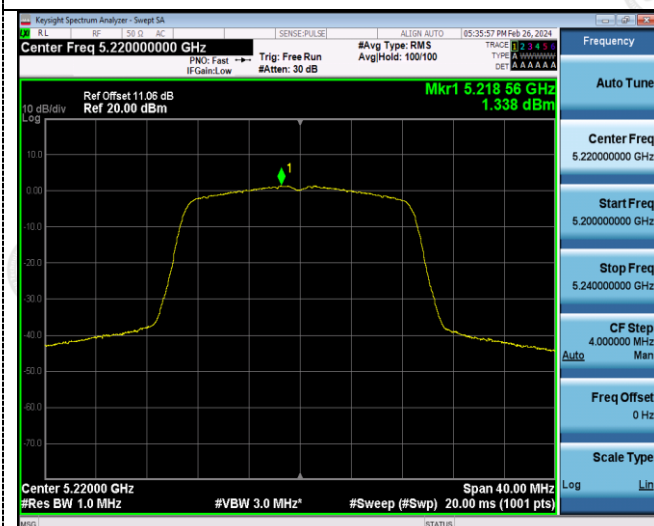
U-NII 1



U-NII 3



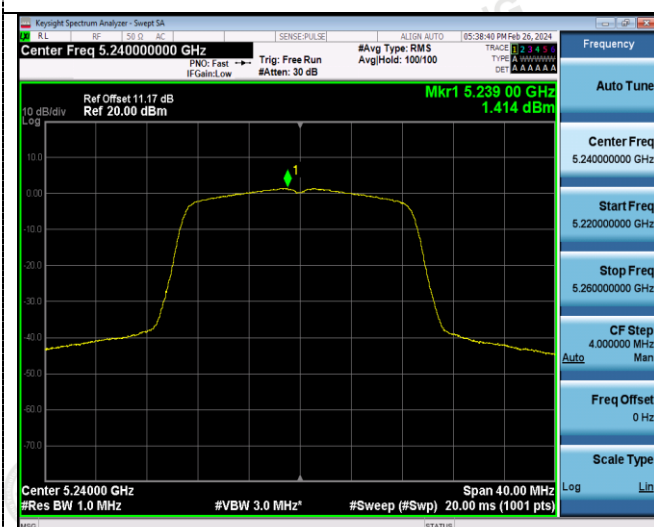
CH36



CH149



CH40



CH157



CH48

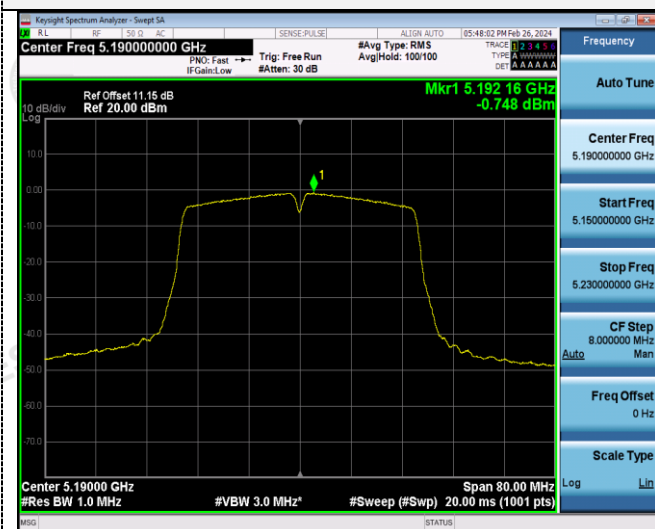


CH165



802.11ac(HT40)

U-NII 1



U-NII 3



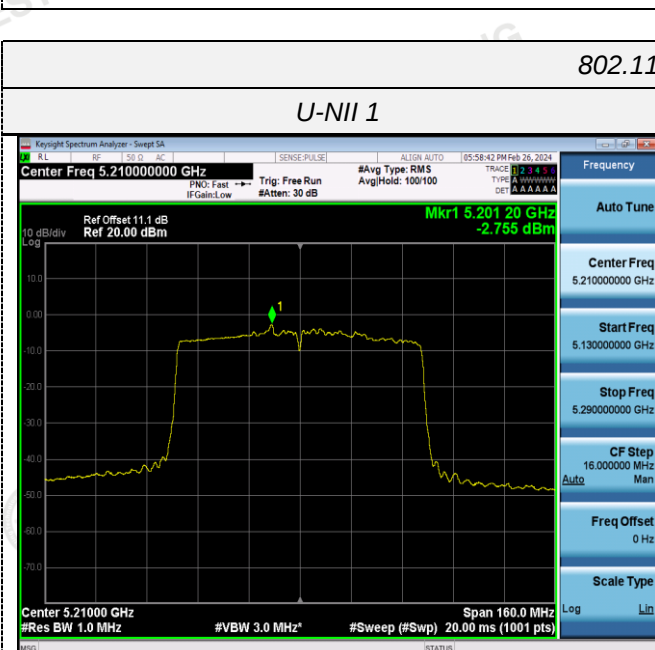
CH38



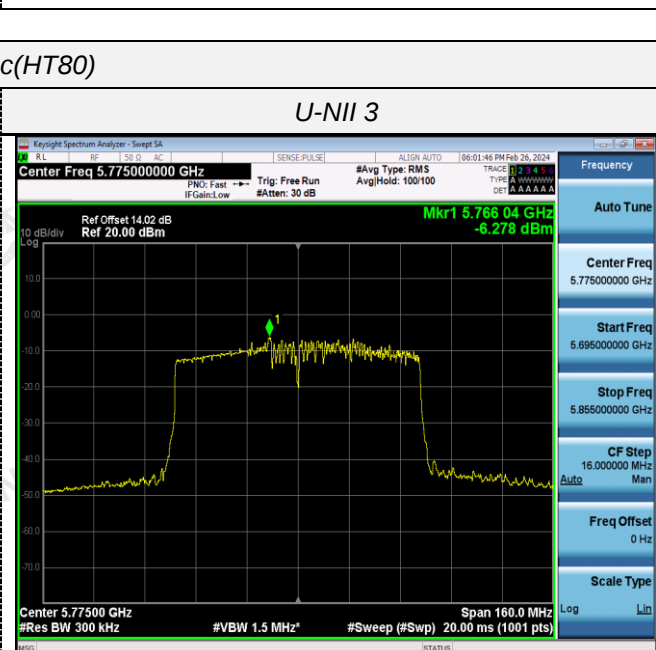
CH151



CH46



CH159



CH42



CH155



4.5 Emission Bandwidth (26dB Bandwidth)

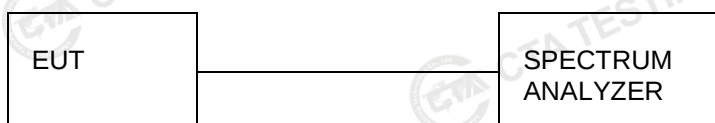
Limit

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	19.920	N/A	Pass
		44	19.760		
		48	19.840		
802.11n(HT20)	U-NII 1	36	20.240		
		44	20.200		
		48	20.280		
802.11n(HT40)	U-NII 1	38	40.400		
		46	40.640		
802.11ac(HT20)	U-NII 1	36	20.200		
		44	20.080		
		48	20.240		
802.11ac(HT40)	U-NII 1	38	40.320		
		46	40.400		
802.11ac(HT80)	U-NII 1	42	81.120		

ANT 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.960	N/A	Pass
		44	19.920		
		48	19.880		
802.11n(HT20)	U-NII 1	36	20.280		
		44	20.080		
		48	20.080		
802.11n(HT40)	U-NII 1	38	40.240		
		46	40.720		
802.11ac(HT20)	U-NII 1	36	20.000		
		44	19.800		
		48	20.200		
802.11ac(HT40)	U-NII 1	38	40.560		
		46	40.400		
802.11ac(HT80)	U-NII 1	42	80.800		

Test plot as follows:

ANT 1

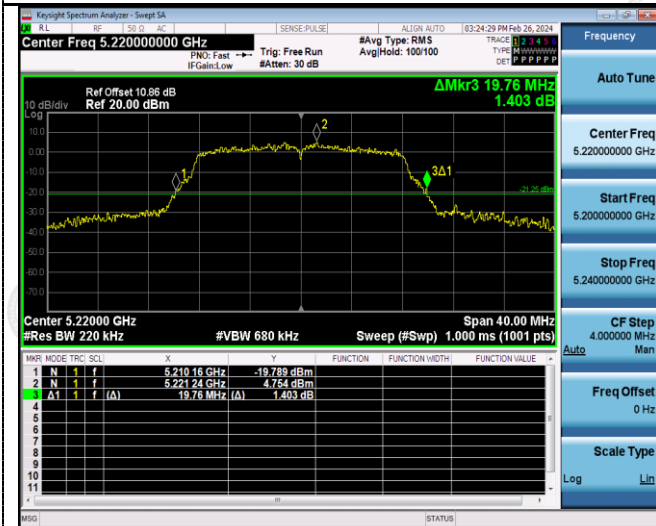
802.11a



802.11n(HT20)



CH36



CH36



CH40



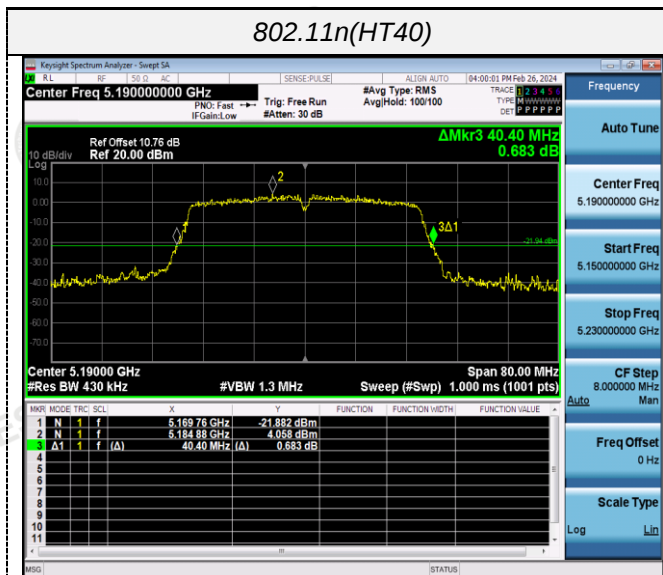
CH40



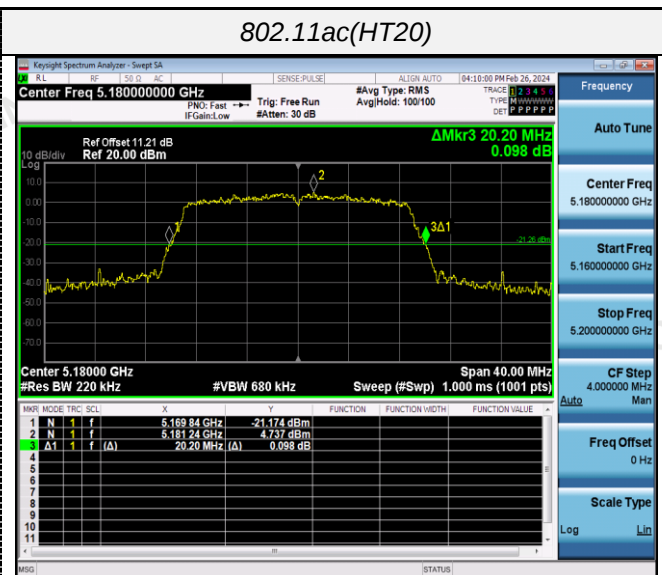
CH48

CH48

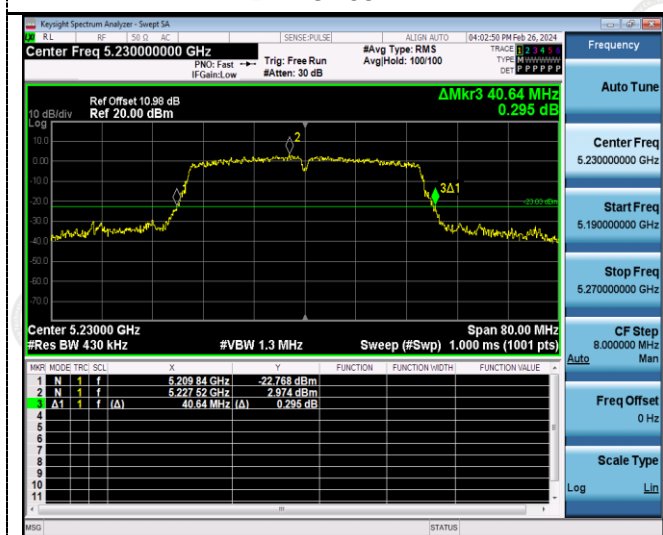
802.11n(HT40)



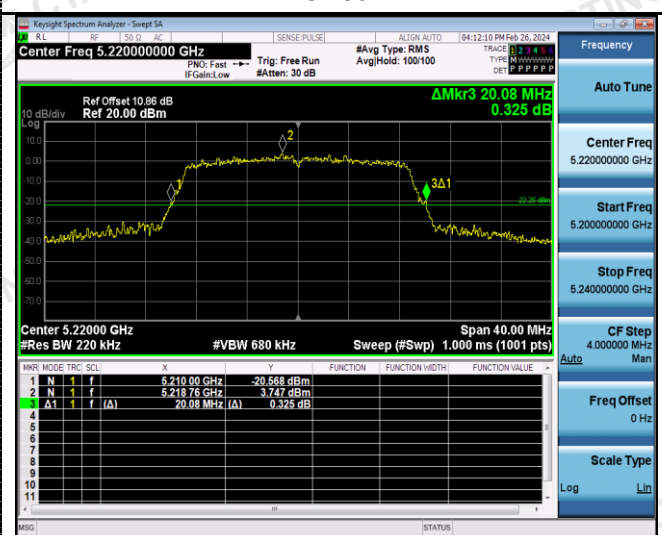
802.11ac(HT20)



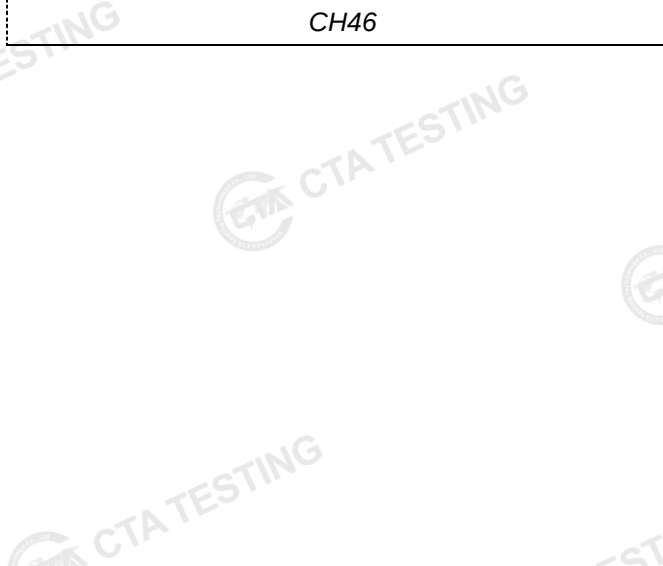
CH38



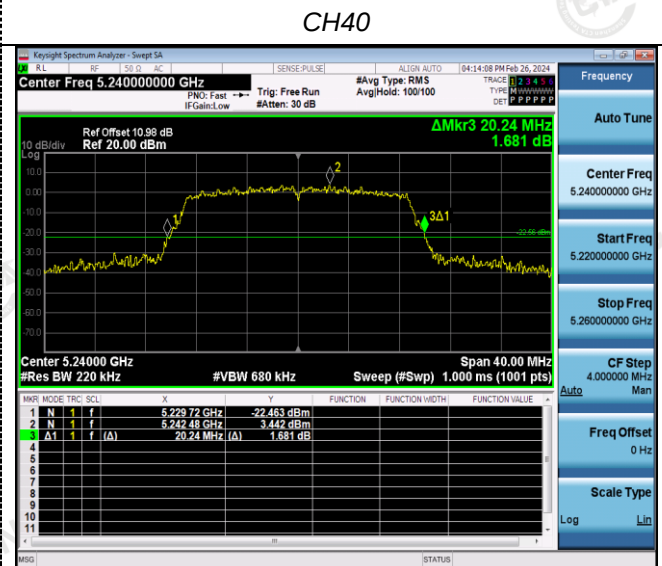
CH36



CH46

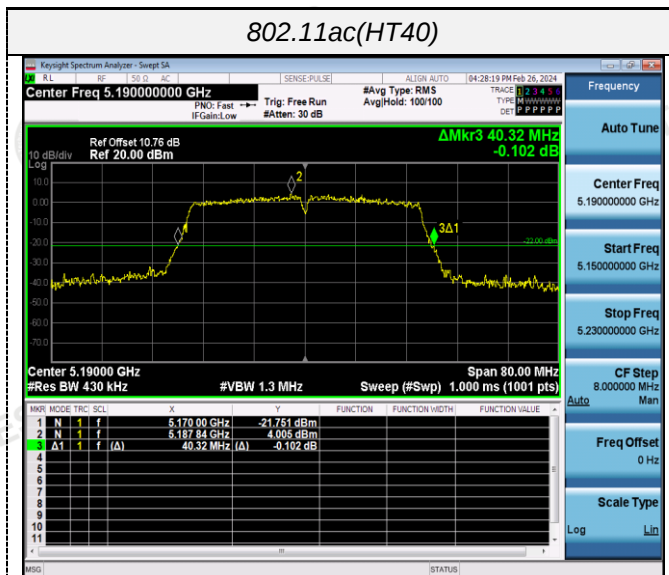


CH40

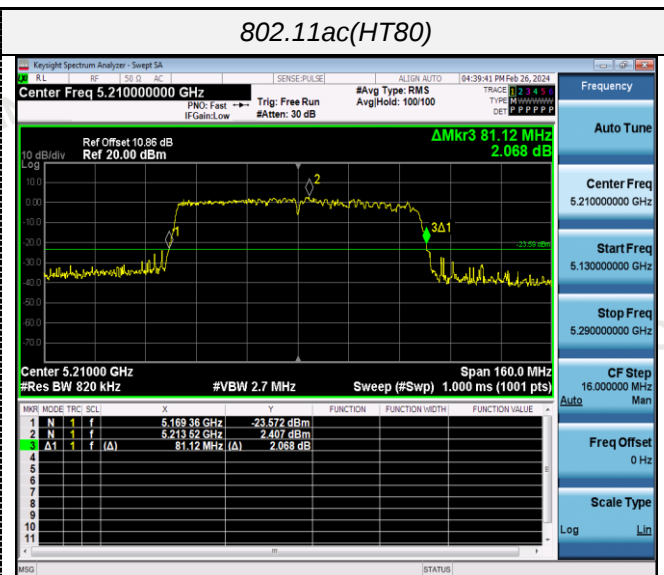


CH48

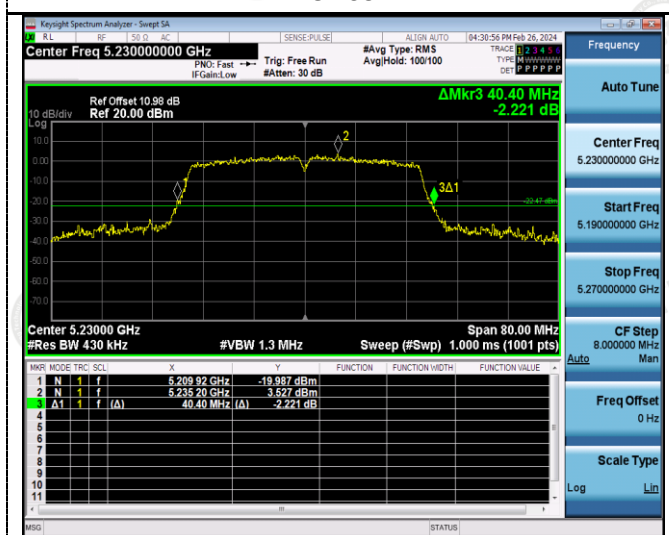
802.11ac(HT40)



802.11ac(HT80)



CH38



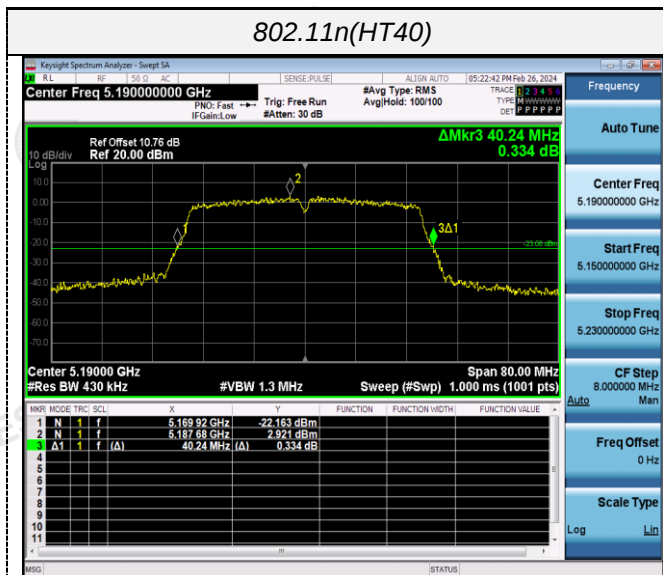
CH46

CH42

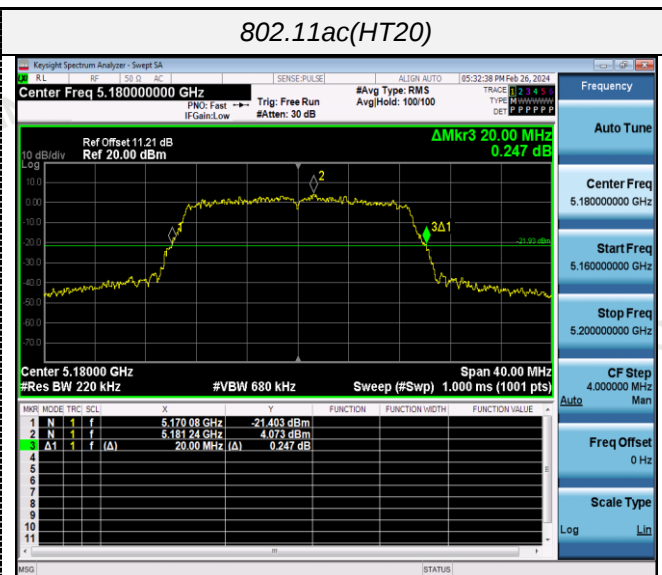
ANT 2



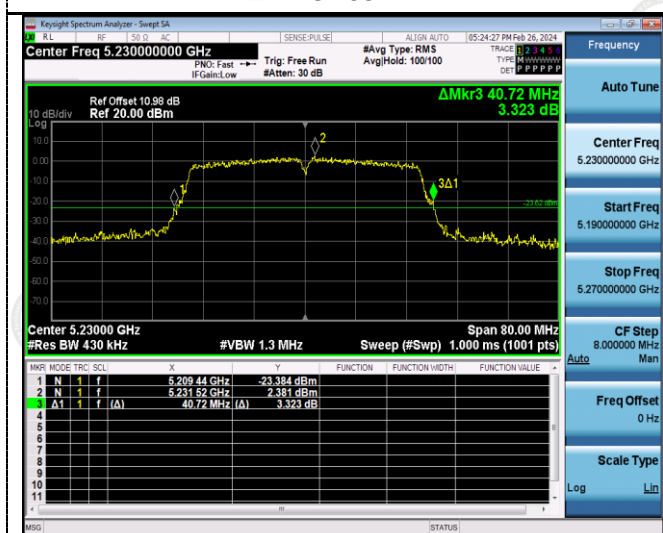
802.11n(HT40)



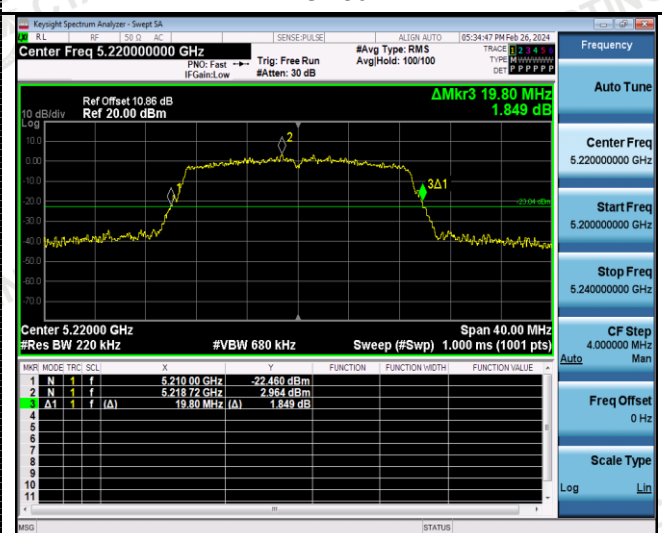
802.11ac(HT20)



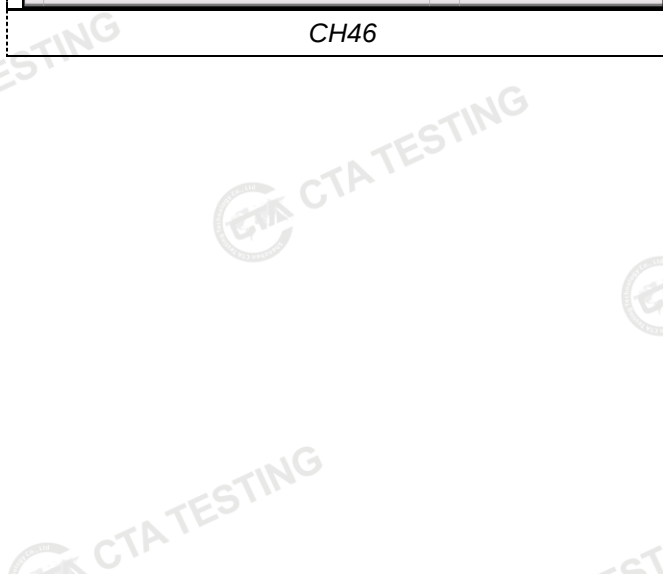
CH38



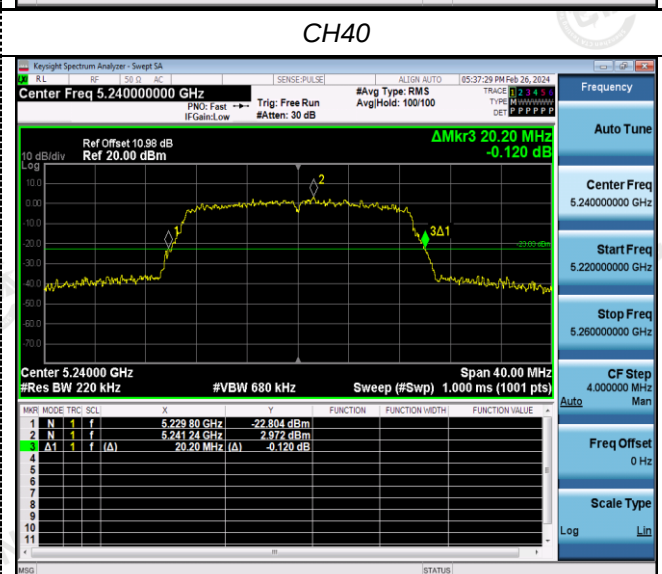
CH36



CH46

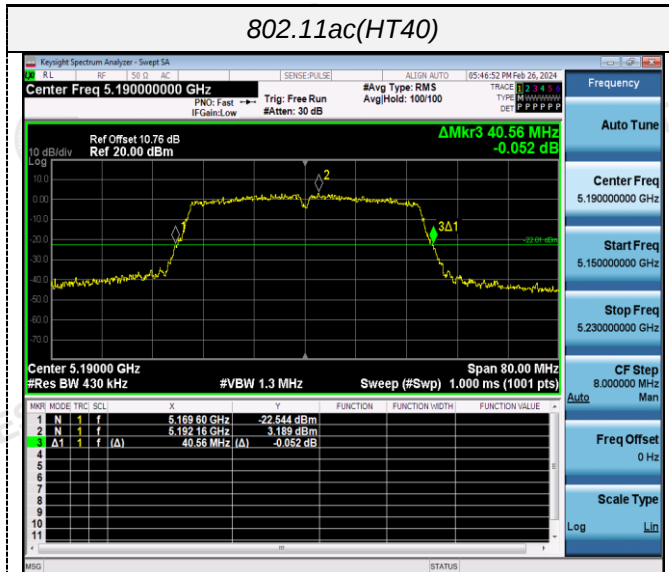


CH40

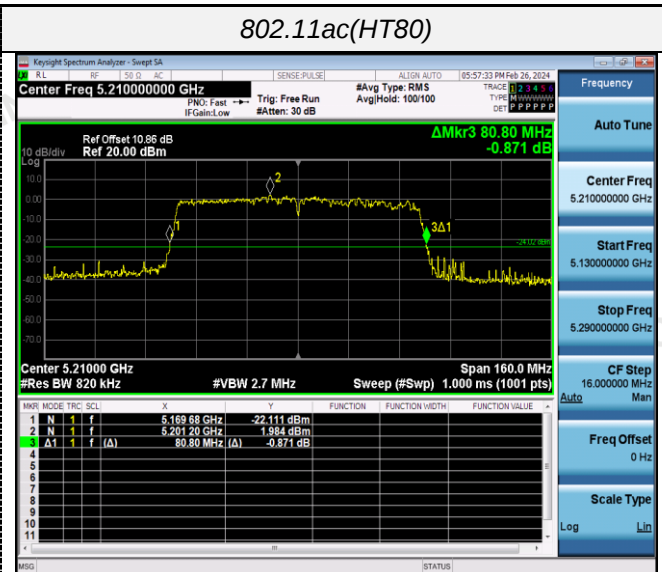


CH48

802.11ac(HT40)



802.11ac(HT80)



CH38



CH46

CH42

4.6 Minimum Emission Bandwidth (6dB Bandwidth)

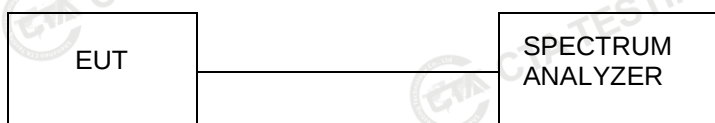
Limit

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	14.640	≥500KHz	Pass
		157	13.760		
		165	15.080		
802.11n(HT20)	U-NII 3	149	15.400		
		157	12.960		
		165	13.760		
802.11n(HT40)	U-NII 3	151	35.040		
		159	33.760		
802.11ac(HT20)	U-NII 3	149	14.120		
		157	15.720		
		165	15.080		
802.11ac(HT40)	U-NII 3	151	35.040		
		159	34.880		
802.11ac(HT80)	U-NII 3	155	73.760		

ANT 2

Type	Bands	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	U-NII 3	149	14.400	≥500KHz	Pass
		157	15.440		
		165	15.080		
802.11n(HT20)	U-NII 3	149	14.720		
		157	15.120		
		165	13.920		
802.11n(HT40)	U-NII 3	151	33.840		
		159	35.120		
802.11ac(HT20)	U-NII 3	149	15.240		
		157	13.840		
		165	13.840		
802.11ac(HT40)	U-NII 3	151	33.840		
		159	35.040		
802.11ac(HT80)	U-NII 3	155	75.040		

Test plot as follows: