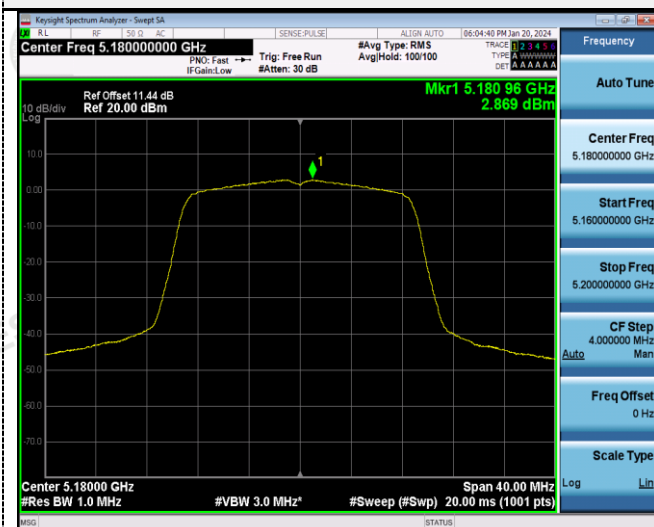


802.11ac(HT20)

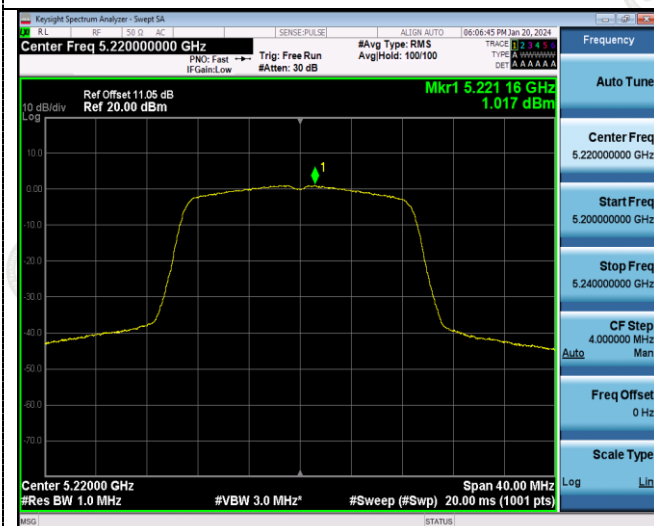
U-NII 1



U-NII 3



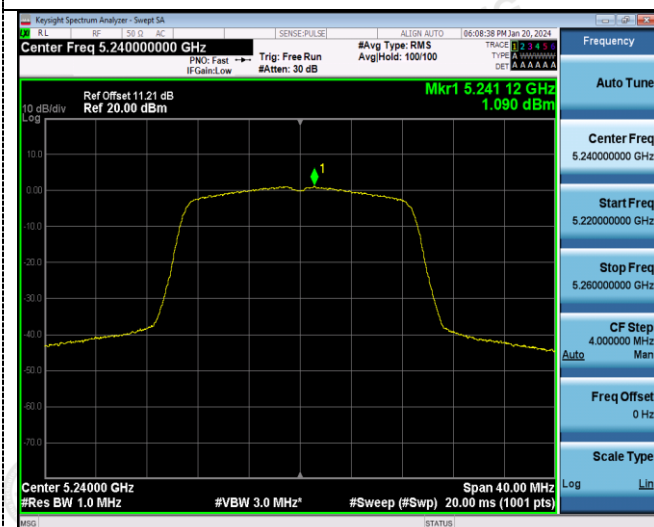
CH36



CH149



CH40



CH157

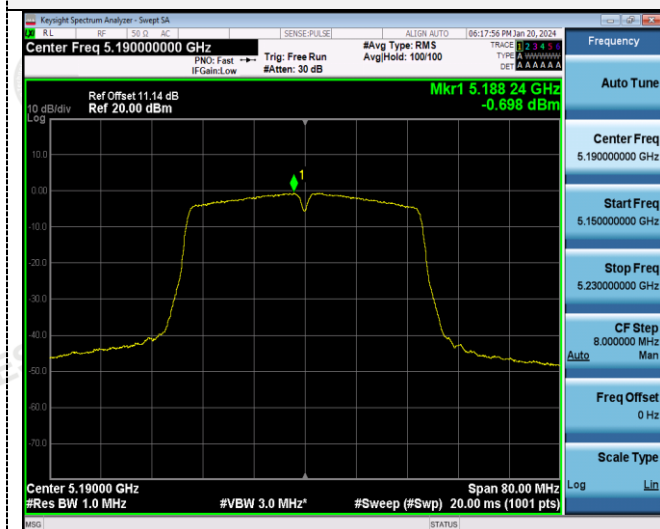


CH48

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

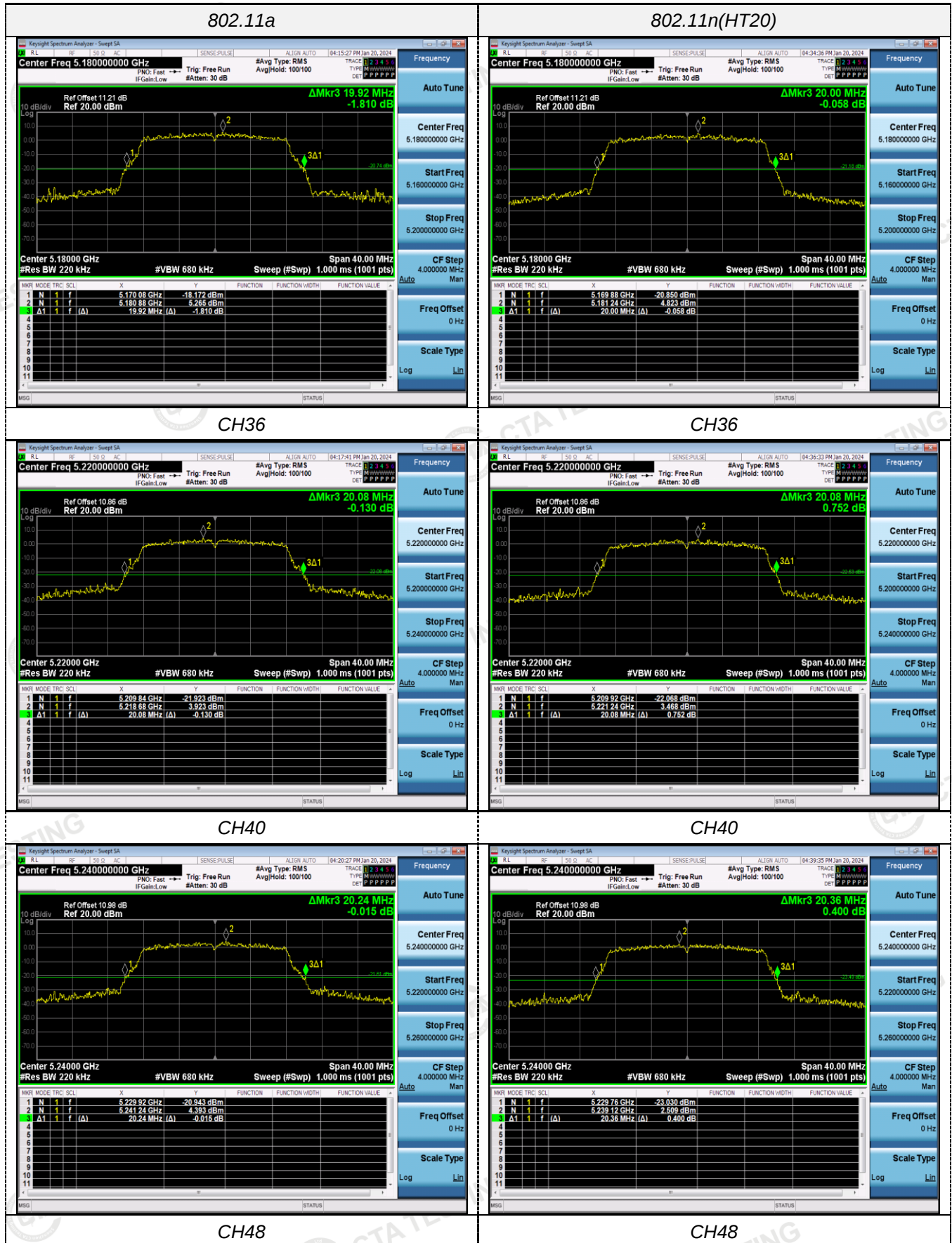
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	19.920	N/A	Pass
		44	20.080		
		48	20.240		
802.11n(HT20)	U-NII 1	36	20.000		
		44	20.080		
		48	20.360		
802.11n(HT40)	U-NII 1	38	40.320		
		46	40.320		
802.11ac(HT20)	U-NII 1	36	20.080		
		44	20.160		
		48	20.160		
802.11ac(HT40)	U-NII 1	38	40.640		
		46	40.080		
802.11ac(HT80)	U-NII 1	42	81.600		

ANT 2

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	20.040	N/A	Pass
		44	19.920		
		48	19.920		
802.11n(HT20)	U-NII 1	36	20.080		
		44	20.040		
		48	20.080		
802.11n(HT40)	U-NII 1	38	40.400		
		46	40.400		
802.11ac(HT20)	U-NII 1	36	20.160		
		44	20.320		
		48	20.200		
802.11ac(HT40)	U-NII 1	38	40.640		
		46	40.400		
802.11ac(HT80)	U-NII 1	42	80.480		

Test plot as follows:

ANT 1



802.11n(HT40)



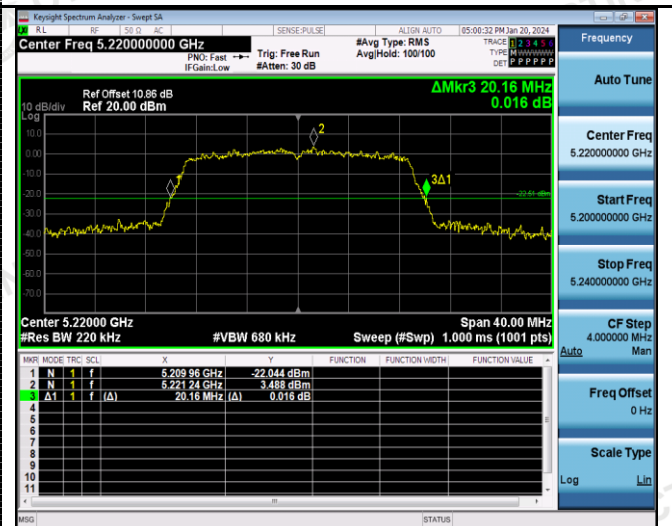
802.11ac(HT20)



CH38



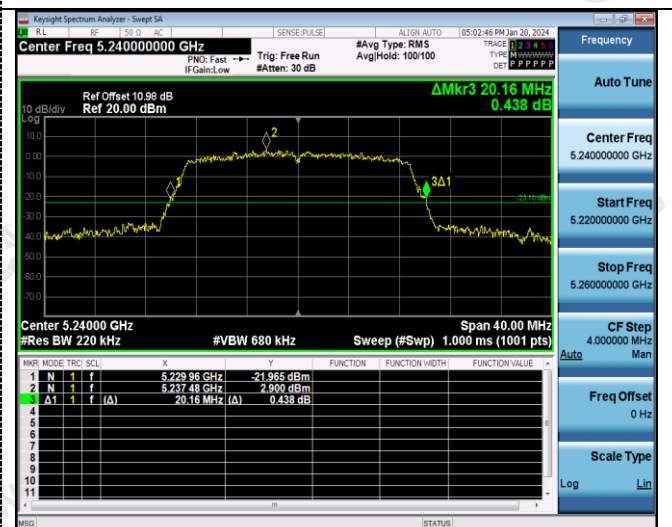
CH36



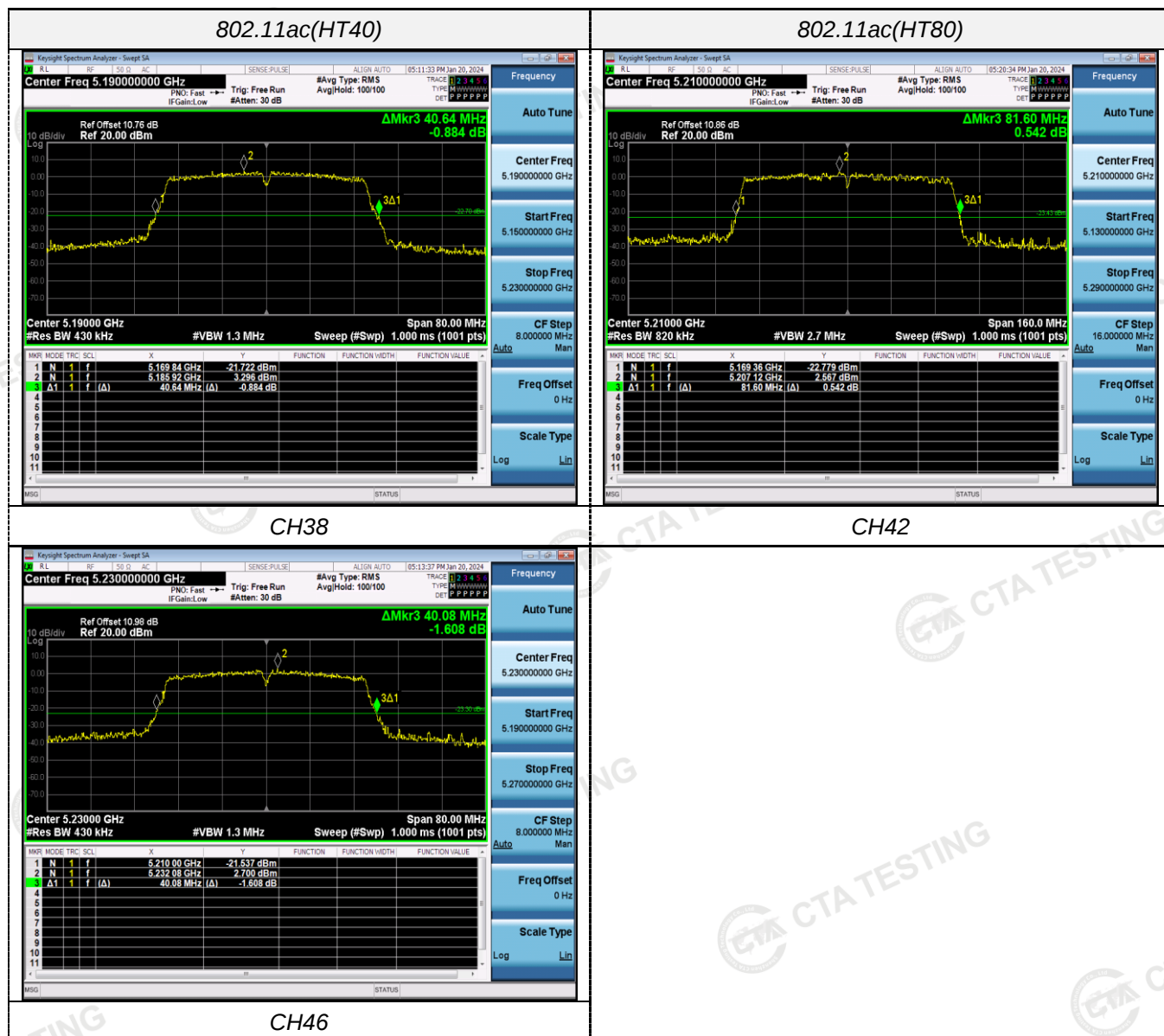
CH46



CH40

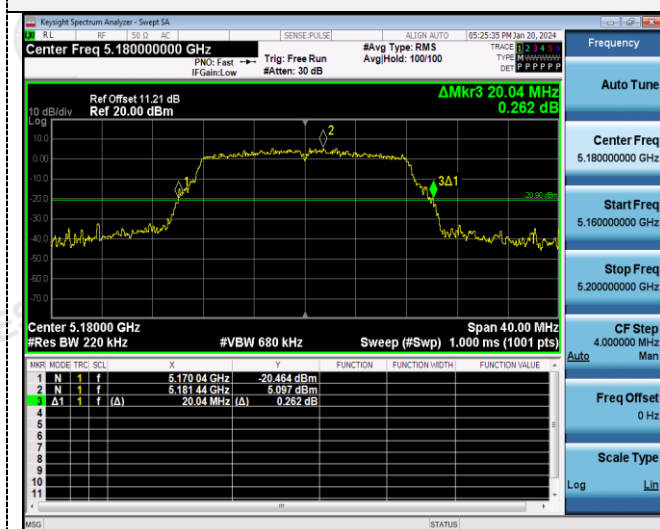


CH48



ANT 2

802.11a



802.11n(HT20)



CH36



CH36



CH40



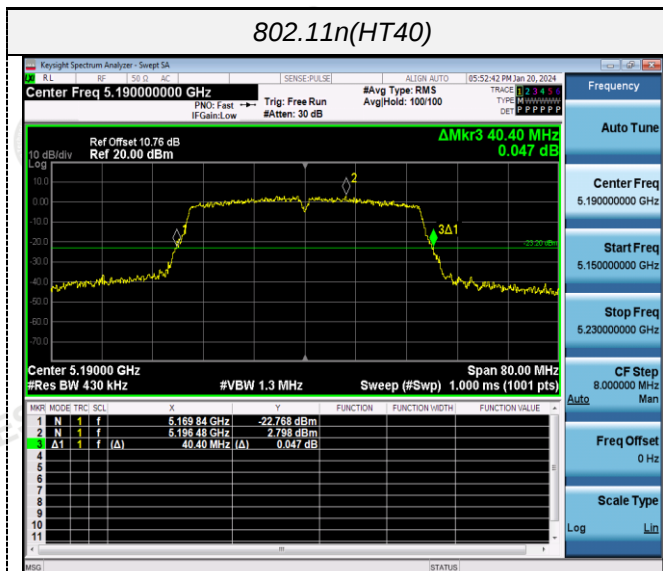
CH40



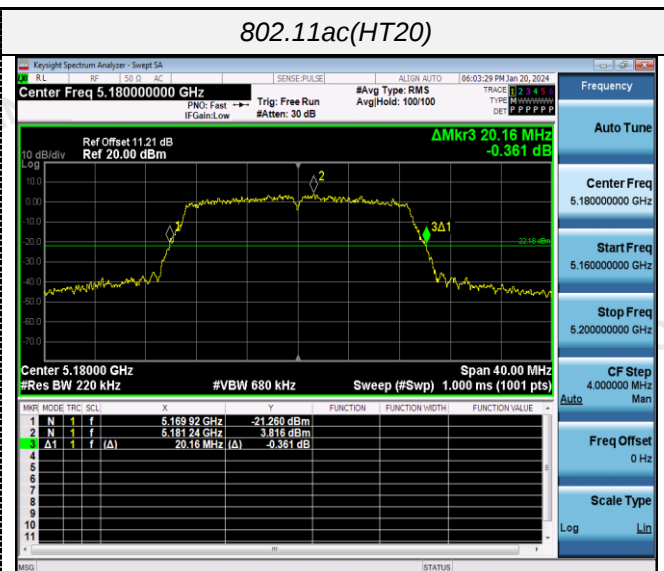
CH48

CH48

802.11n(HT40)



802.11ac(HT20)



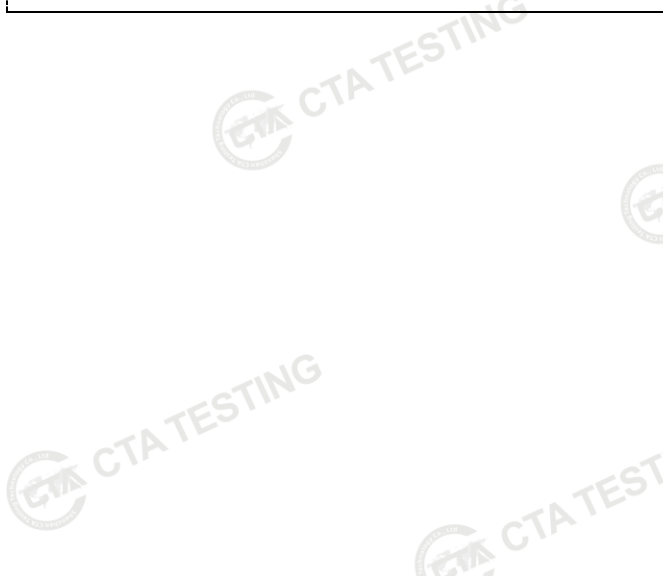
CH38



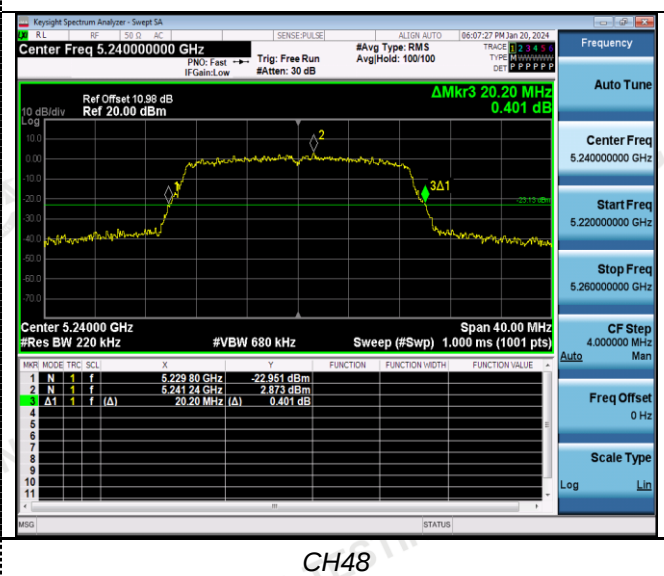
CH36



CH46

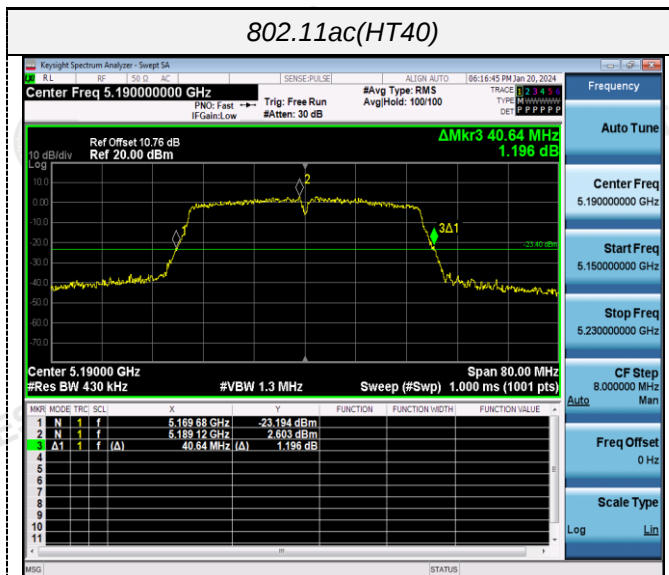


CH40

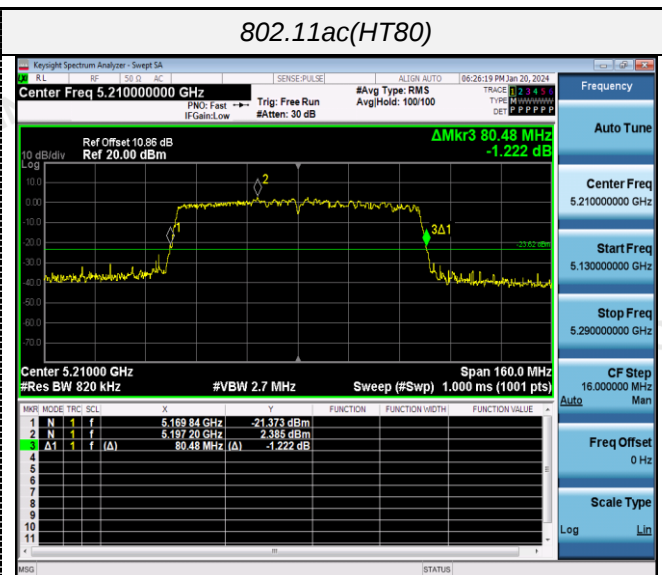


CH48

802.11ac(HT40)



802.11ac(HT80)



CH38



CH46

CH42

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	13.560	≥500KHz	Pass
		157	15.320		
		165	12.920		
802.11n(HT20)	U-NII 3	149	13.800		
		157	14.120		
		165	17.320		
802.11n(HT40)	U-NII 3	151	35.120		
		159	35.040		
802.11ac(HT20)	U-NII 3	149	13.160		
		157	15.160		
		165	15.400		
802.11ac(HT40)	U-NII 3	151	35.040		
		159	35.120		
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	11.280	≥500KHz	Pass
		157	15.320		
		165	15.000		
802.11n(HT20)	U-NII 3	149	15.160		
		157	15.360		
		165	15.080		
802.11n(HT40)	U-NII 3	151	33.760		
		159	35.120		
802.11ac(HT20)	U-NII 3	149	14.800		
		157	15.040		
		165	15.000		
802.11ac(HT40)	U-NII 3	151	33.840		
		159	33.920		
802.11ac(HT80)	U-NII 3	155	72.640		

Test plot as follows: