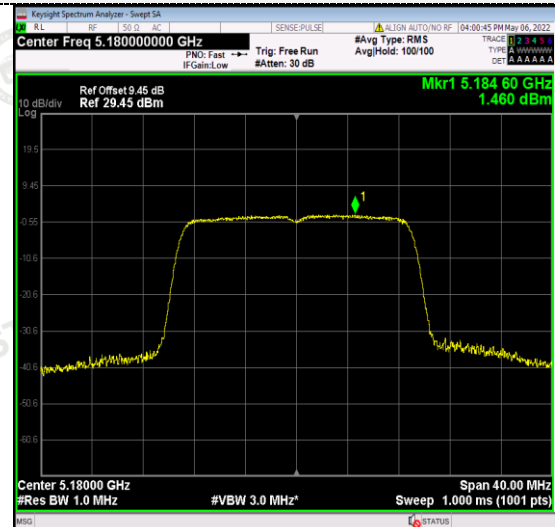


802.11n(HT20)

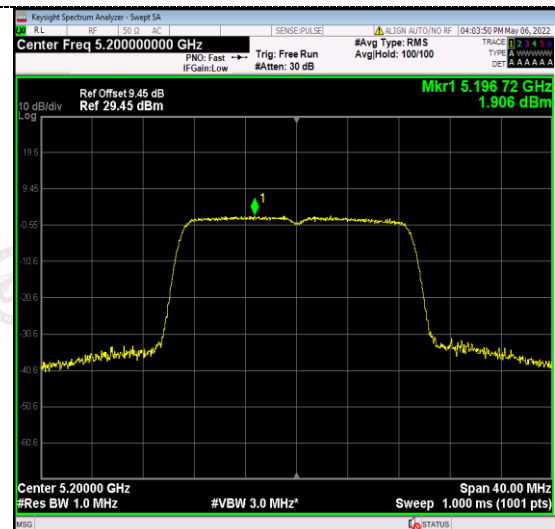
U-NII 1



U-NII 3



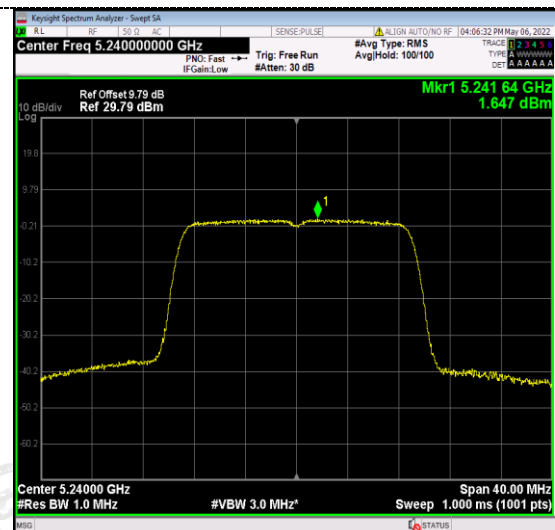
CH36



CH149



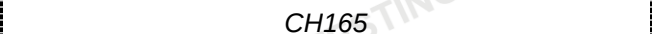
CH40



CH157



CH48



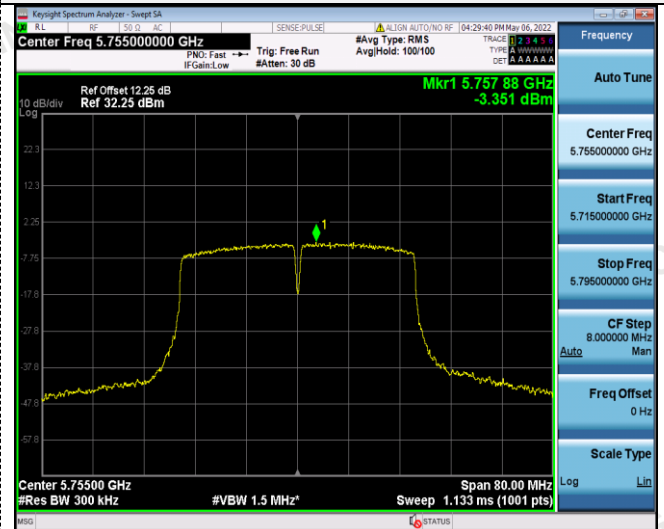
CH165

802.11n(HT40)

U-NII 1



U-NII 3



CH38



CH151

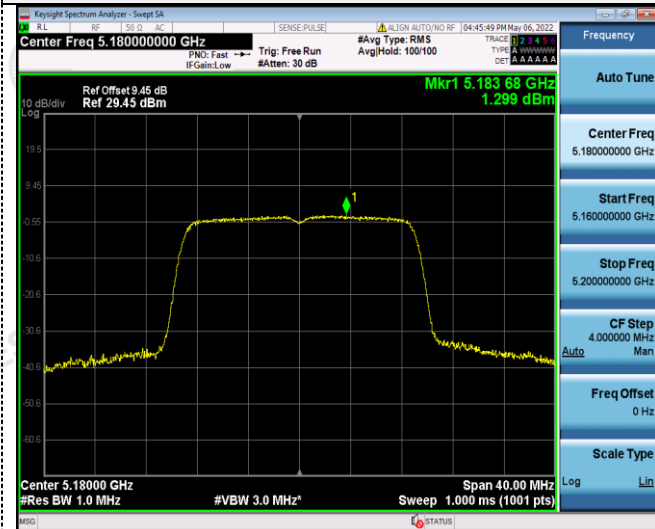


CH46

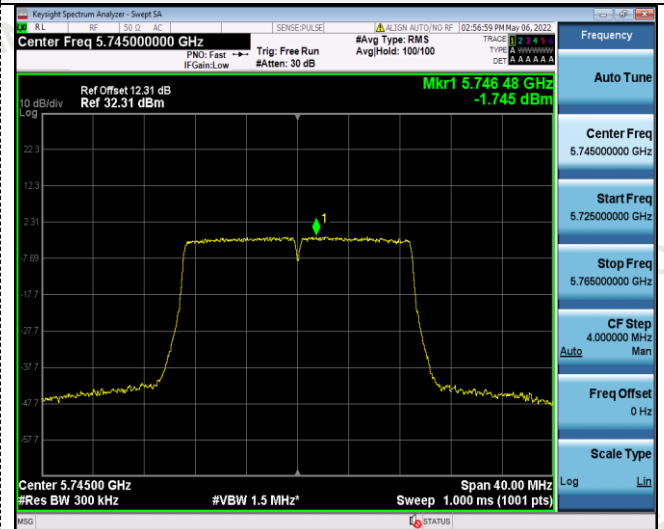
CH159

802.11ac(HT20)

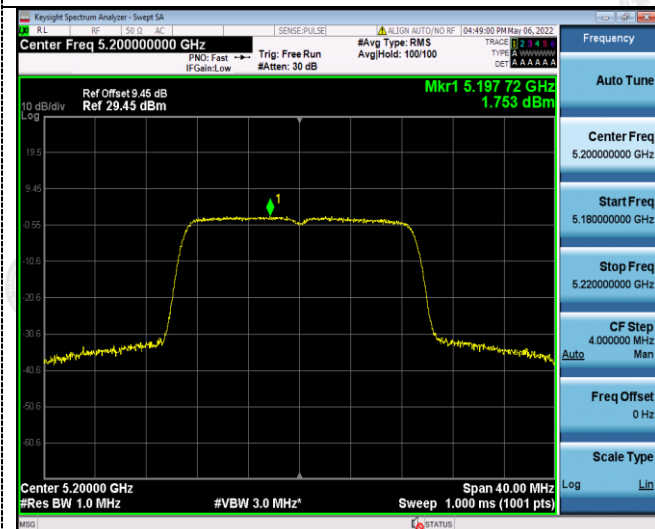
U-NII 1



U-NII 3



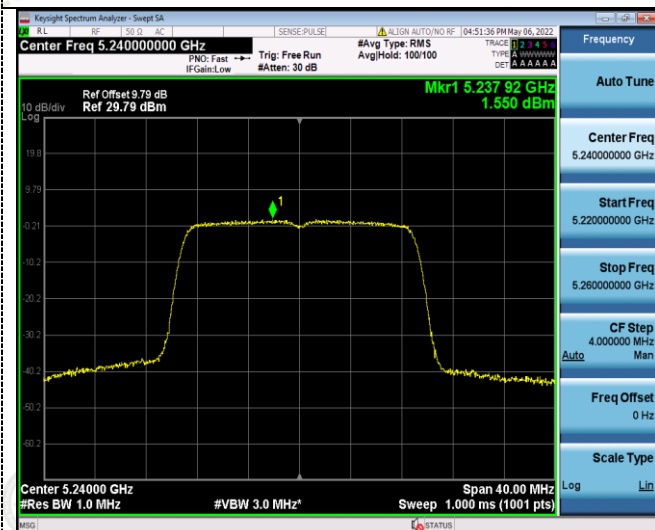
CH36



CH149



CH40



CH157

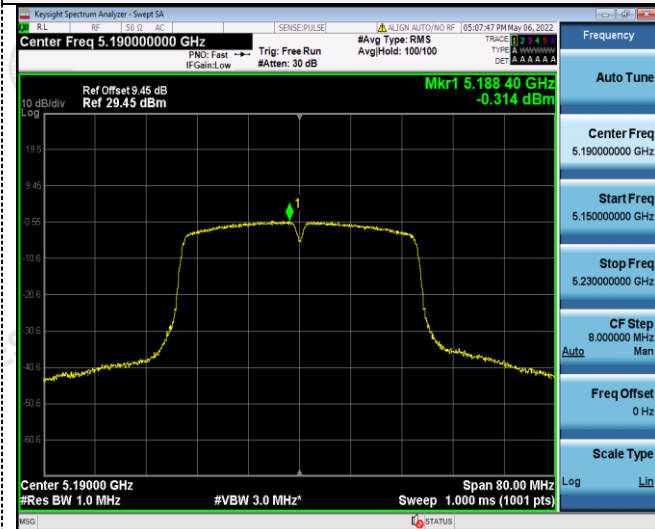


CH48

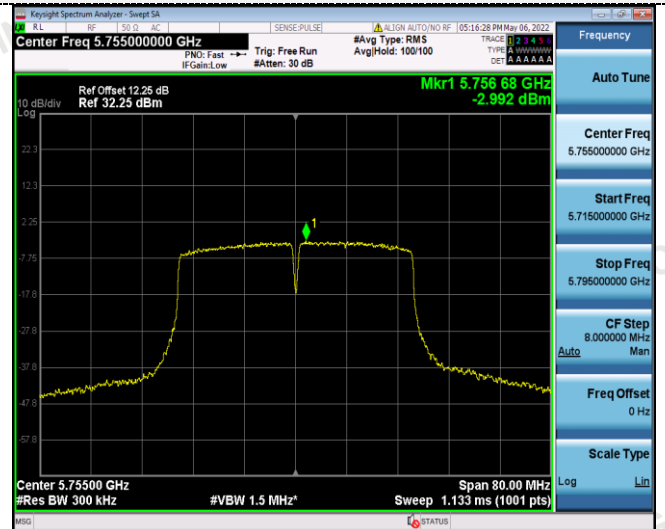
CH165

802.11ac(HT40)

U-NII 1



U-NII 3



CH38



CH151



CH46

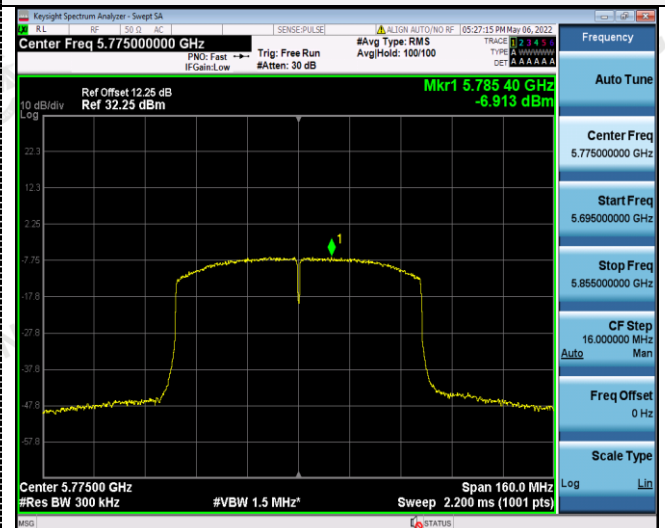
CH159

802.11ac(HT80)

U-NII 1



U-NII 3



CH42

CH155

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Tel: +86-755 2322 5875 E-mail: cta@cta-test.cn Web: http://www.cta-test.cn

4.5 Emission Bandwidth (26dBm 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

Type	Bands	Channel	26dB Bandwidth (MHz)		Limit (MHz)	Result
			Ant. 1	Ant. 2		
802.11a	U-NII 1	36	18.44	20.56	N/A	Pass
		40	18.60	18.56		
		48	18.52	18.48		
802.11n(HT20)	U-NII 1	36	19.40	19.60		
		40	19.44	19.56		
		48	19.52	19.40		
802.11n(HT40)	U-NII 1	38	41.04	41.12	N/A	Pass
		46	40.96	41.04		
802.11ac(HT20)	U-NII 1	36	19.40	19.40		
		40	19.40	19.56		
		48	19.36	19.32		
802.11ac(HT40)	U-NII 1	38	40.72	40.40		
		46	40.64	41.04		
802.11ac(HT80)	U-NII 1	42	80.64	80.64		

Note:

1. Measured 26dB bandwidth at difference data rate for each mode and recorded worst case for each mode.
2. Test results including cable loss;
3. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;
4. Please refer to following test plots;

ANT1

802.11a



802.11n(HT20)



CH36



CH36



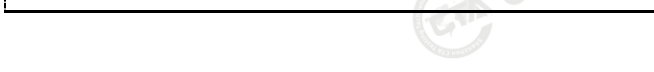
CH40



CH40



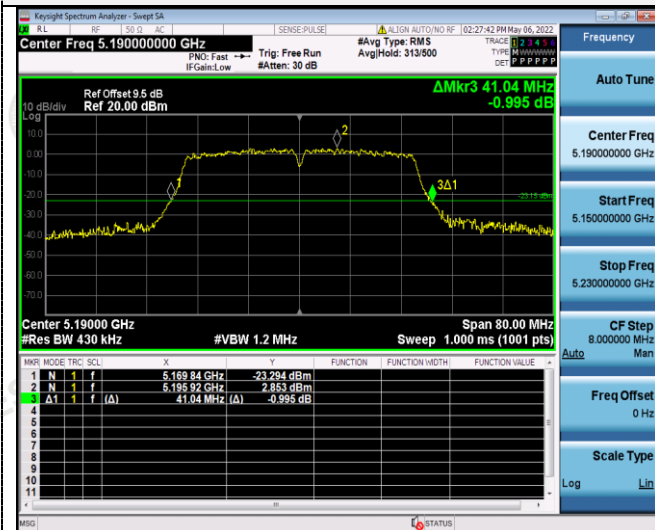
CH48



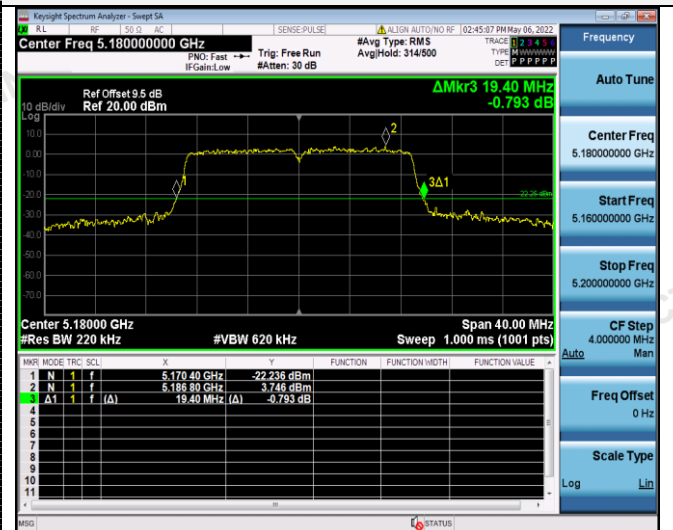
CH48



802.11n(HT40)



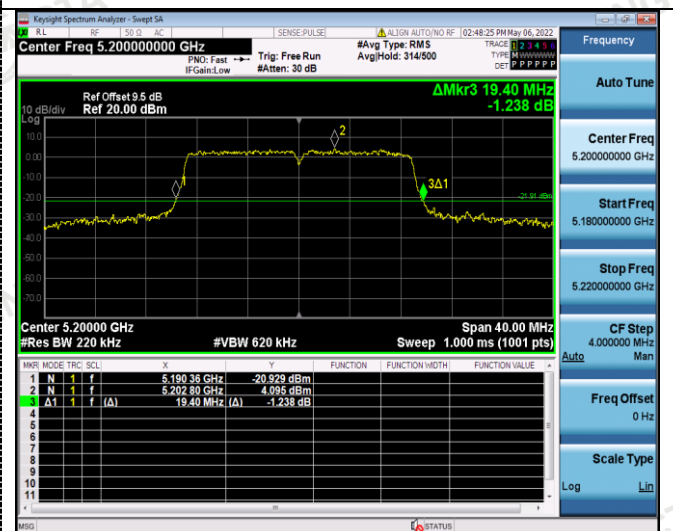
802.11ac(HT20)



CH38



CH36



CH46



CH40

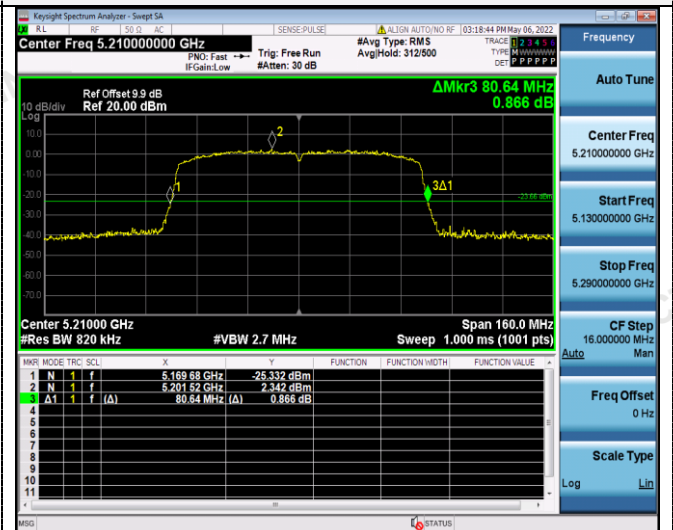


CH48

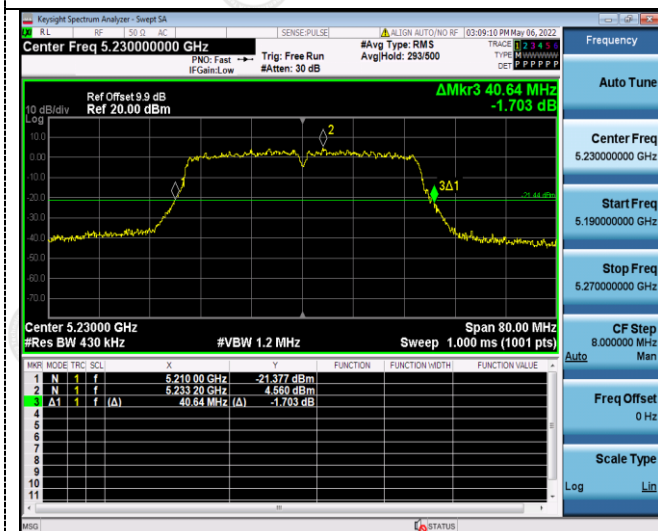
802.11ac(HT40)



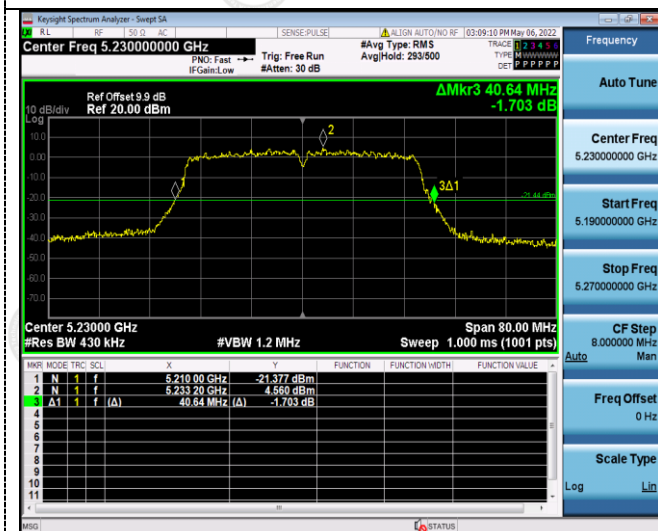
802.11ac(HT80)



CH38



CH42



CH46

ANT2

802.11a



802.11n(HT20)



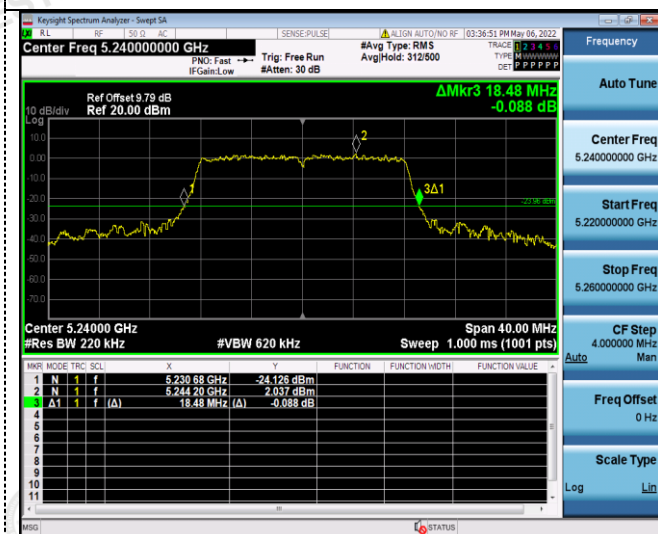
CH36



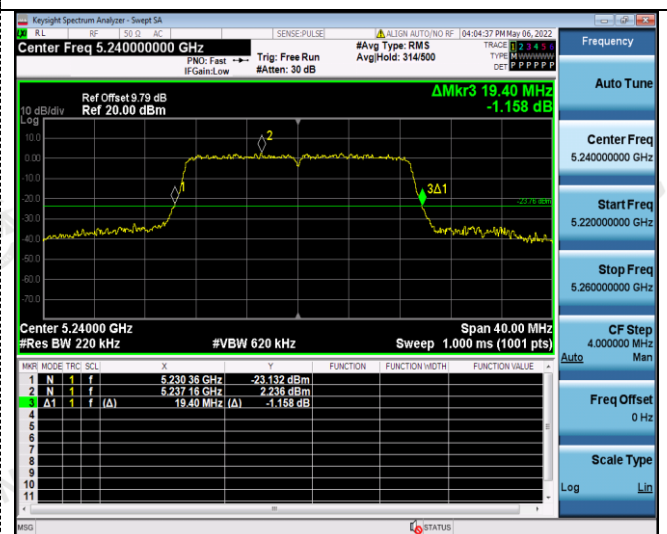
CH36



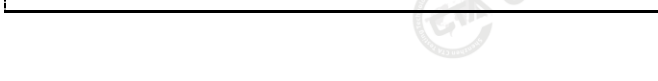
CH40



CH40



CH48



CH48

