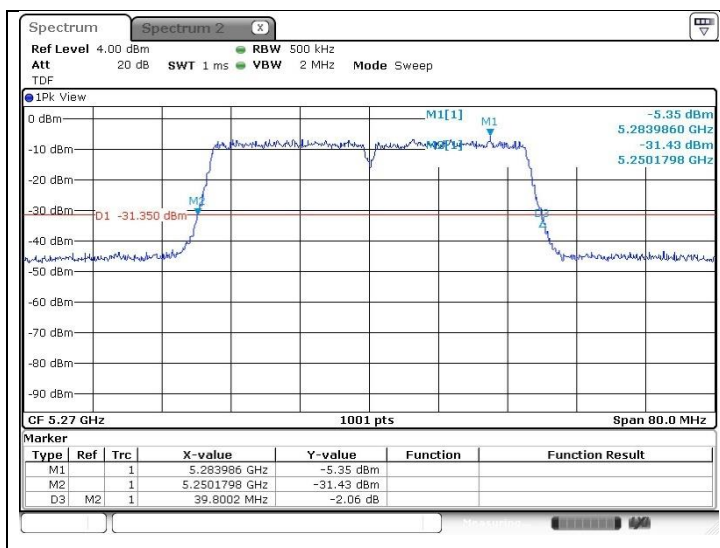
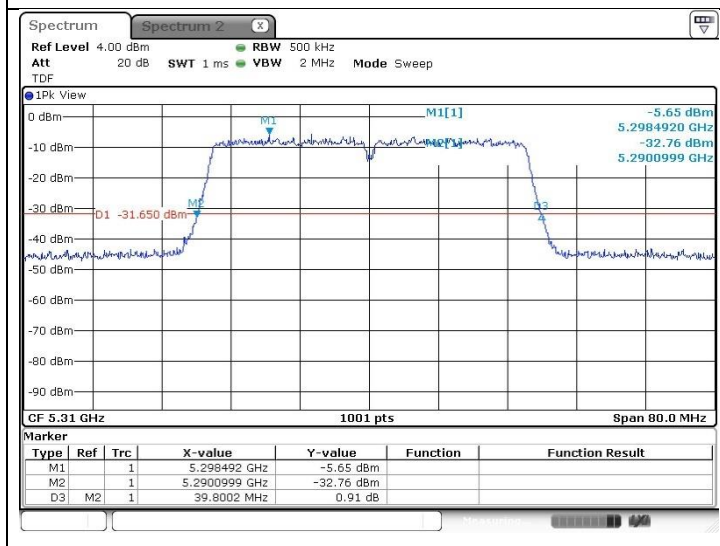


802.11ac_VHT40 (Band 2A)

Low Channel
(5 270 MHz)

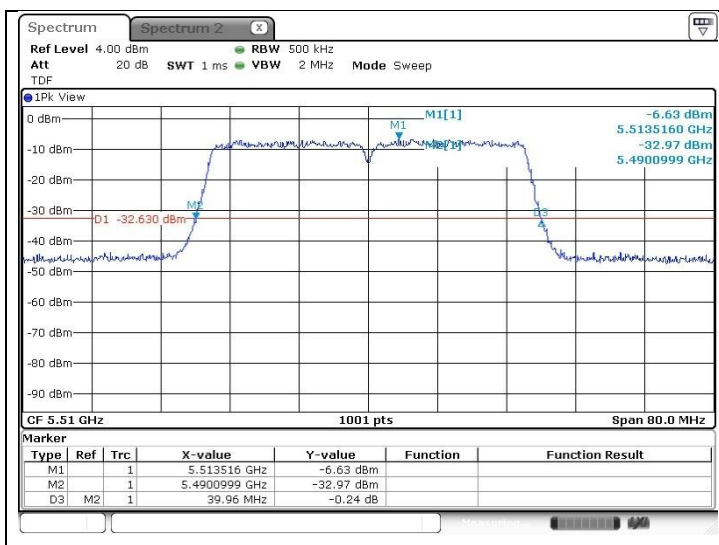


High Channel
(5 310 MHz)

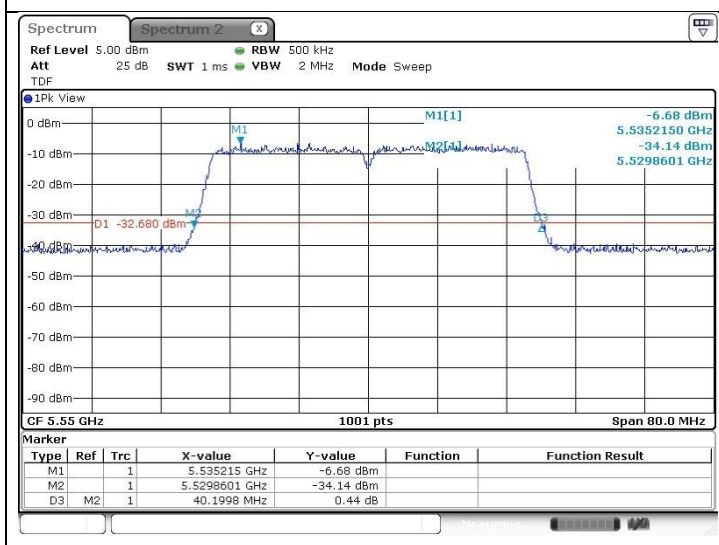


802.11ac_VHT40 (Band 2C)

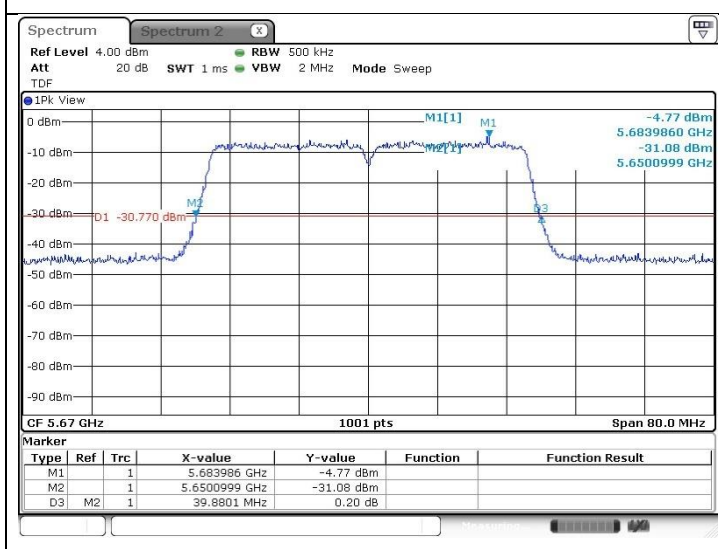
Low Channel
(5 510 MHz)



Middle Channel
(5 550 MHz)

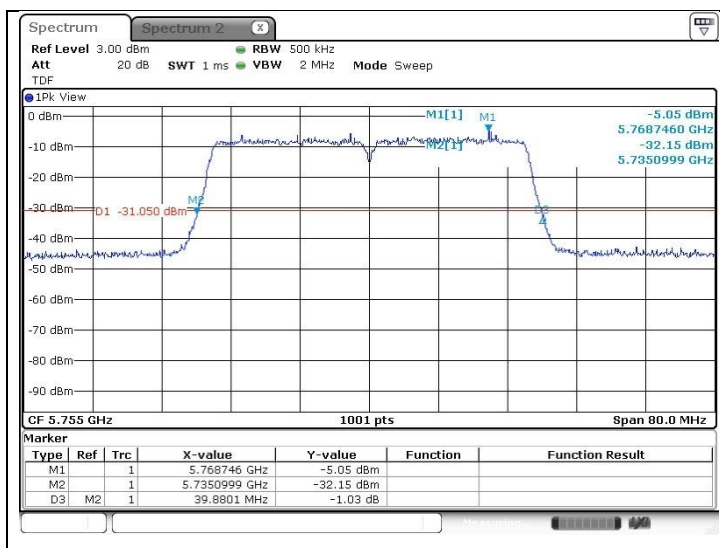


High Channel
(5 670 MHz)

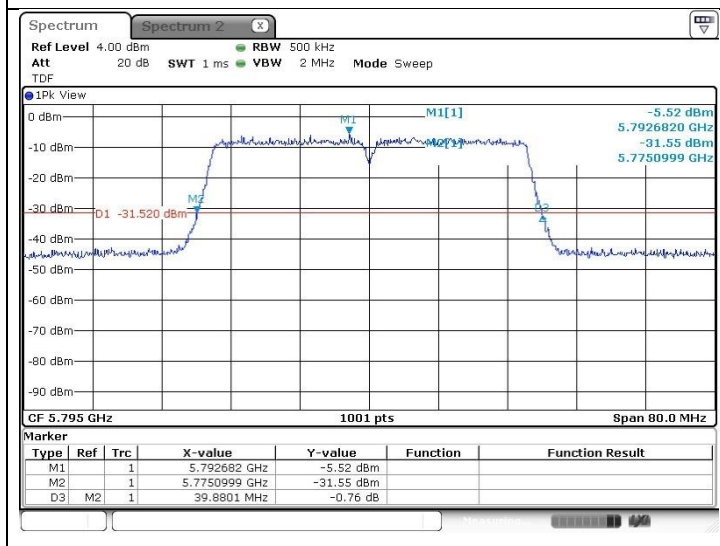


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

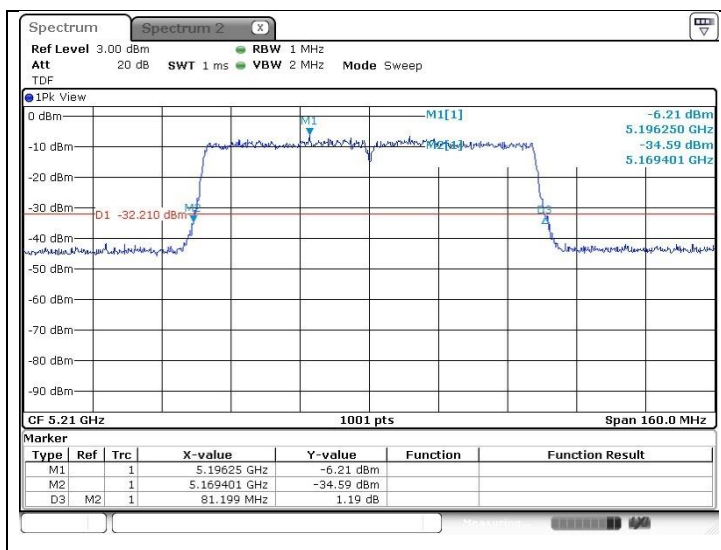


High Channel
(5 795 MHz)



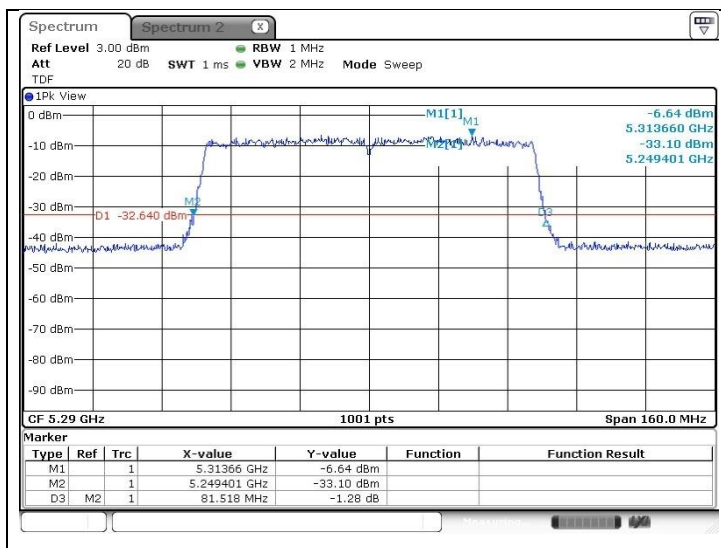
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 MHz)



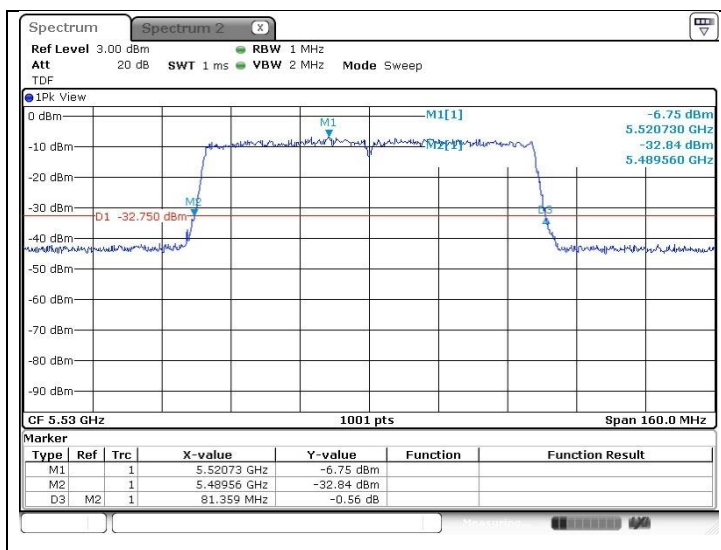
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 MHz)



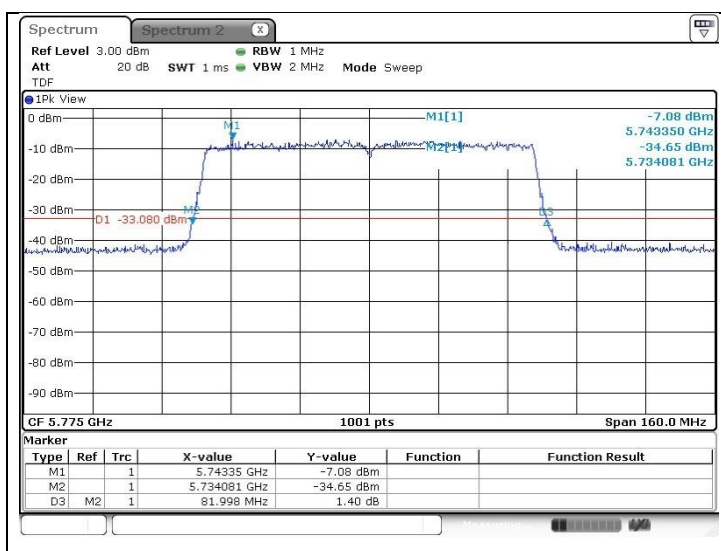
802.11ac_VHT80 (Band 2C)

Low Channel
 (5 530 MHz)



802.11ac_VHT80 (Band 3)

Middle Channel
 (5 775 MHz)

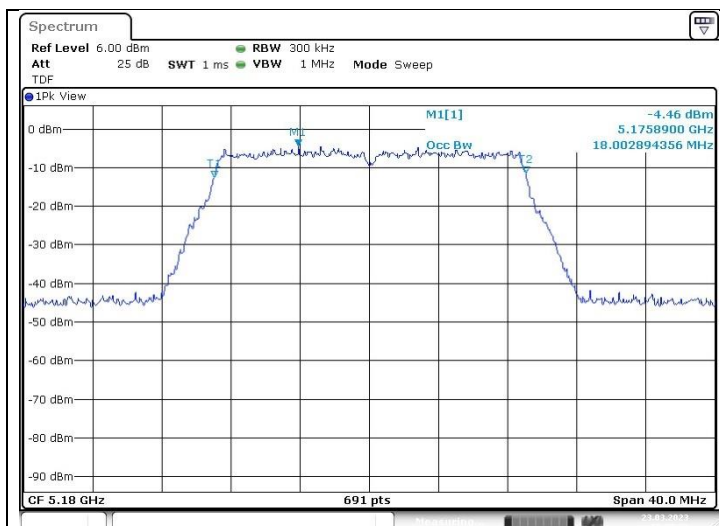


- MIMO_Core 1

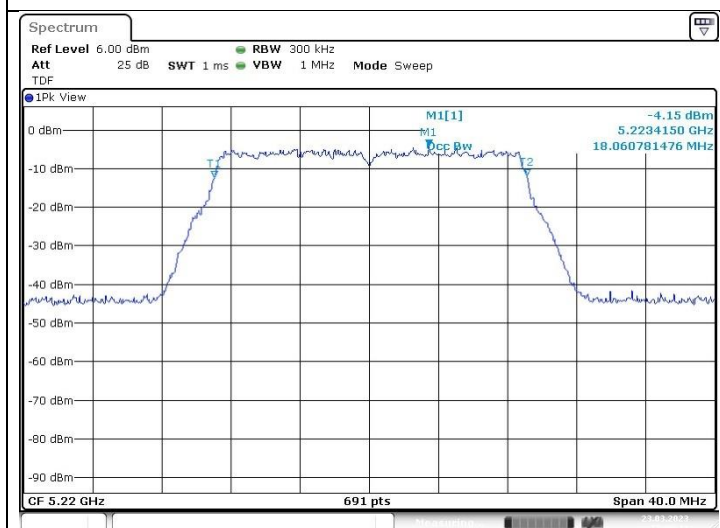
99 % Bandwidth

802.11n_HT20 (Band 1)

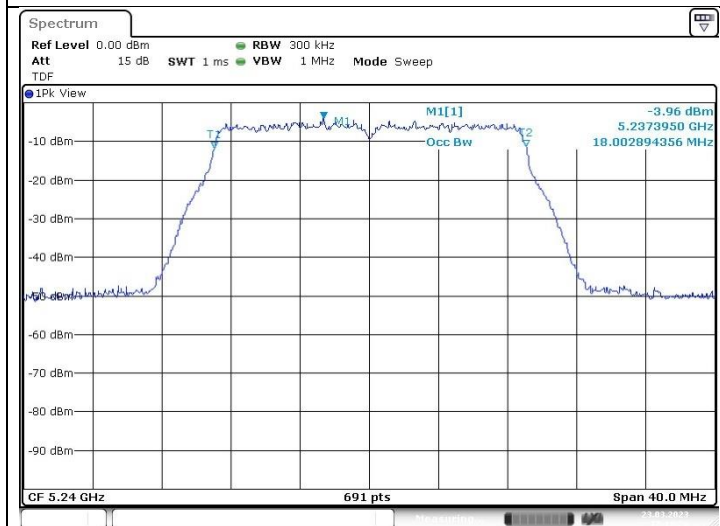
Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

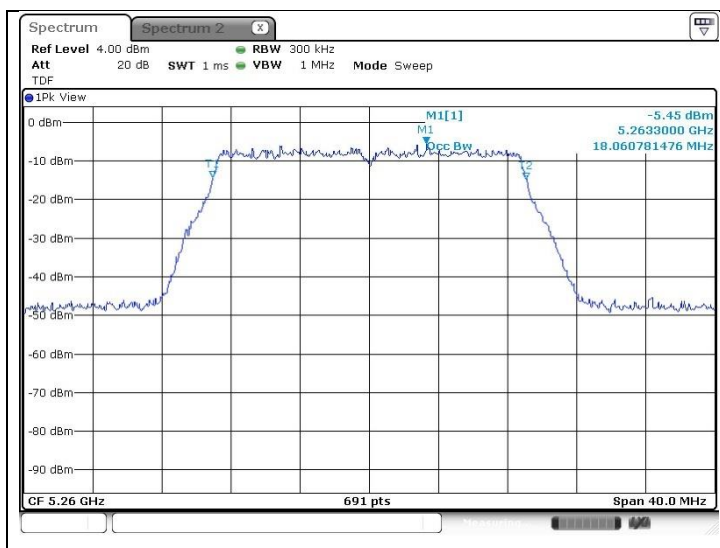


High Channel
(5 240 MHz)

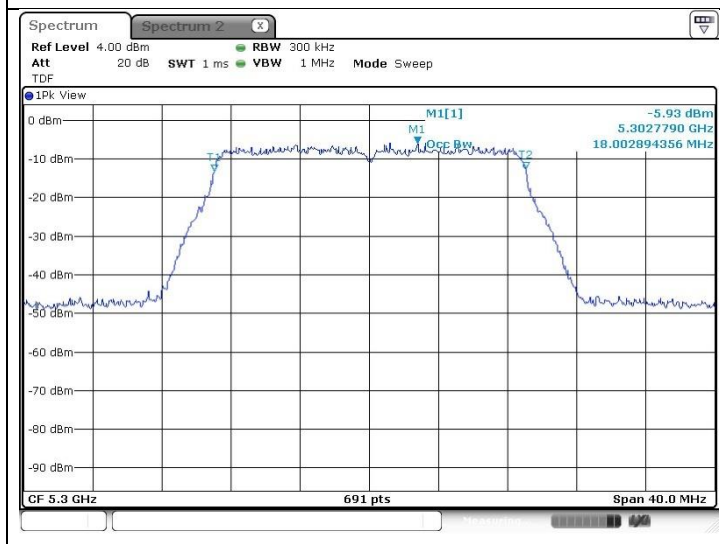


802.11n_HT20 (Band 2A)

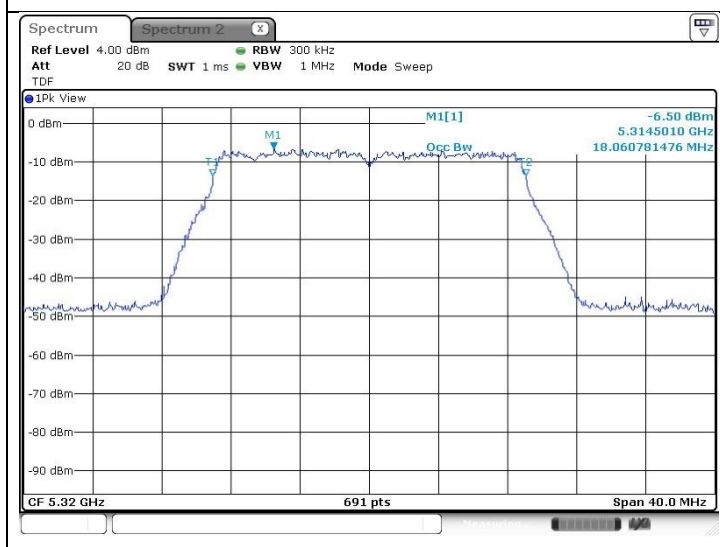
Low Channel
(5 260 MHz)



Middle Channel
(5 300 MHz)

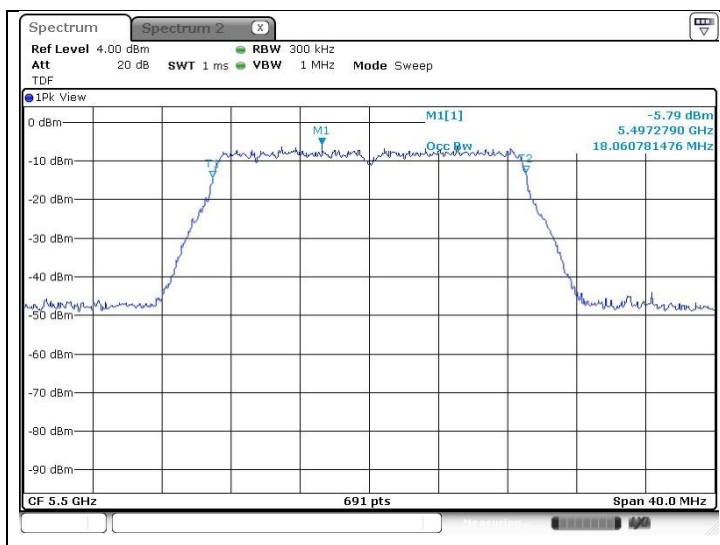


High Channel
(5 320 MHz)

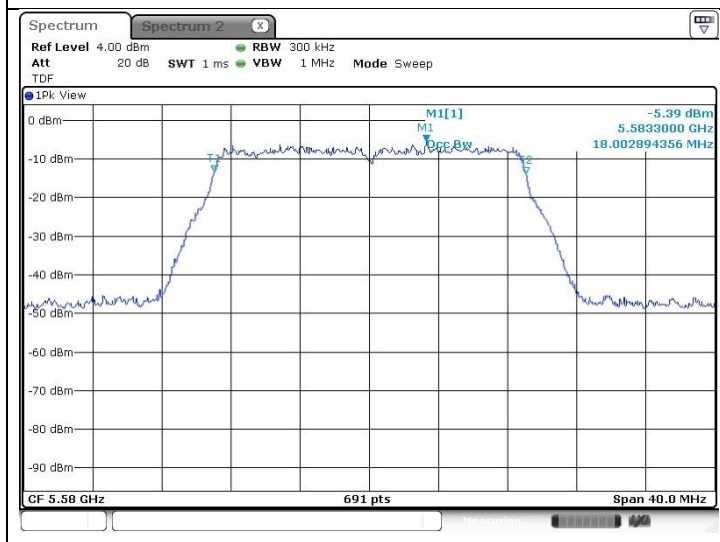


802.11n_HT20 (Band 2C)

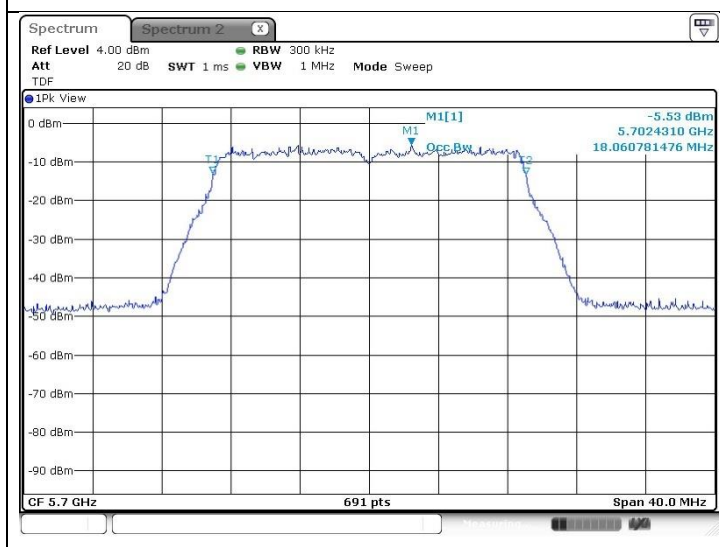
Low Channel
(5 500 MHz)



Middle Channel
(5 580 MHz)

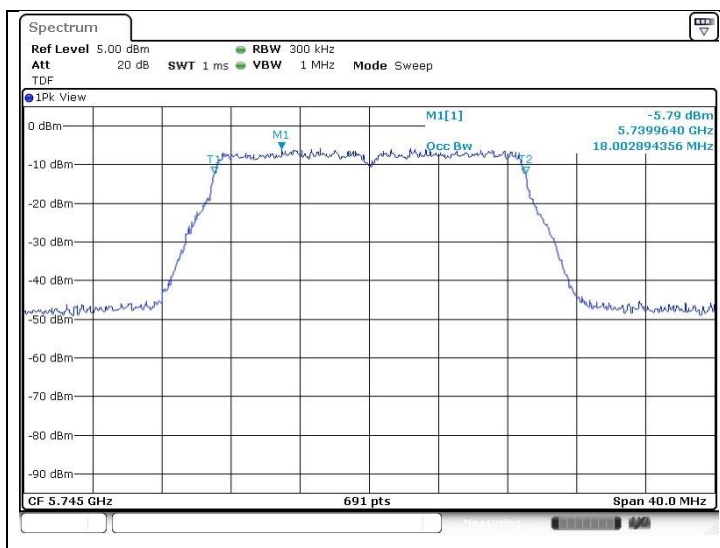


High Channel
(5 700 MHz)

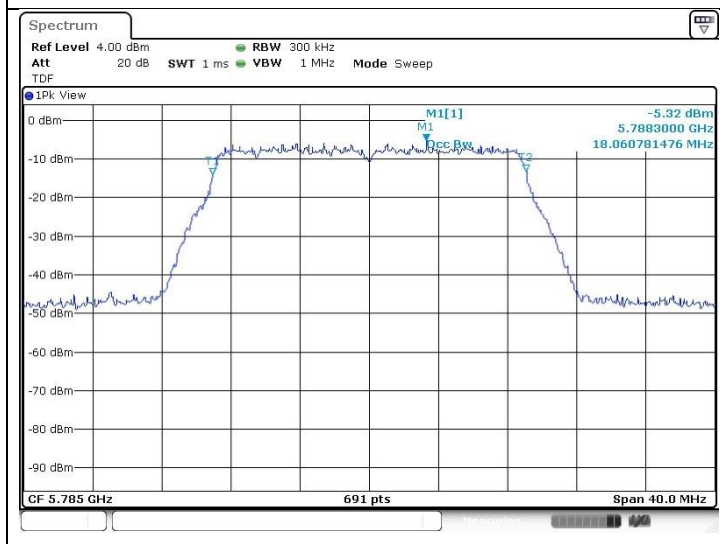


802.11n_HT20 (Band 3)

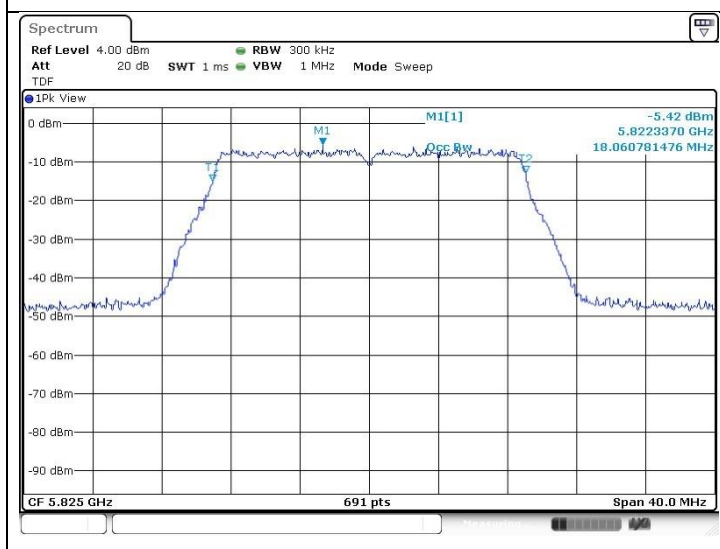
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

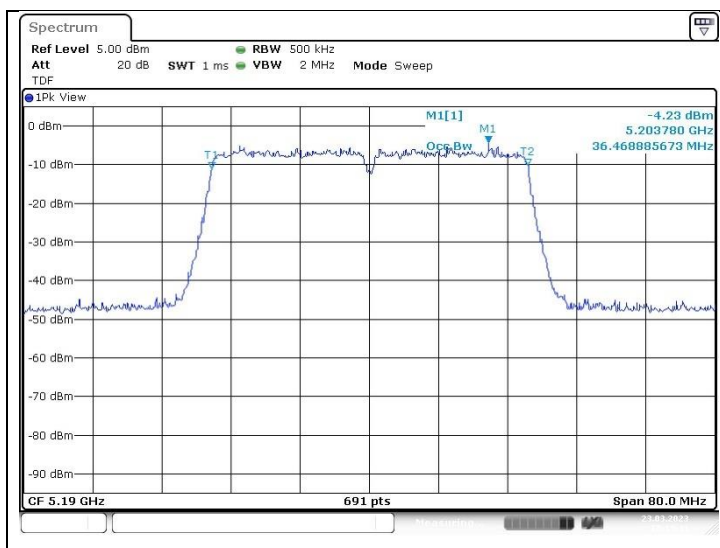


High Channel
(5 825 MHz)

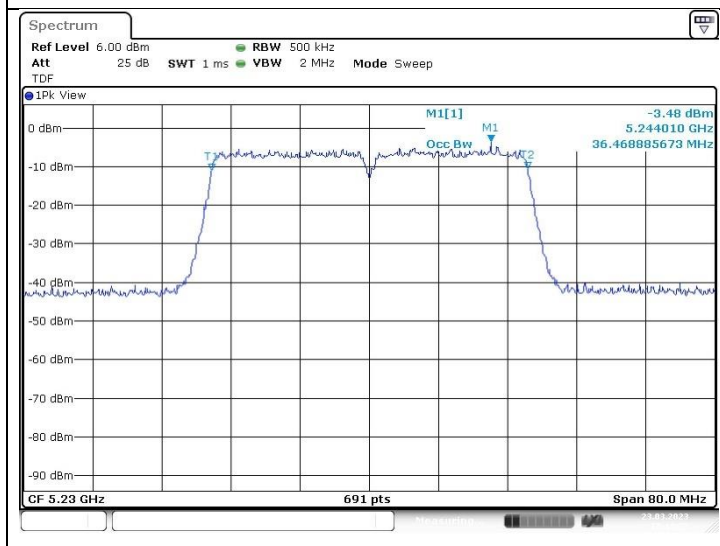


802.11ac_VHT40 (Band 1)

Low Channel
(5 190 MHz)

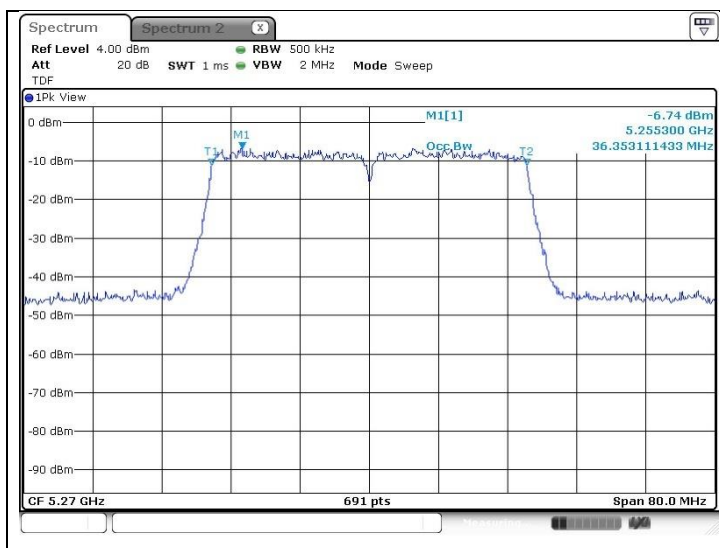


High Channel
(5 230 MHz)

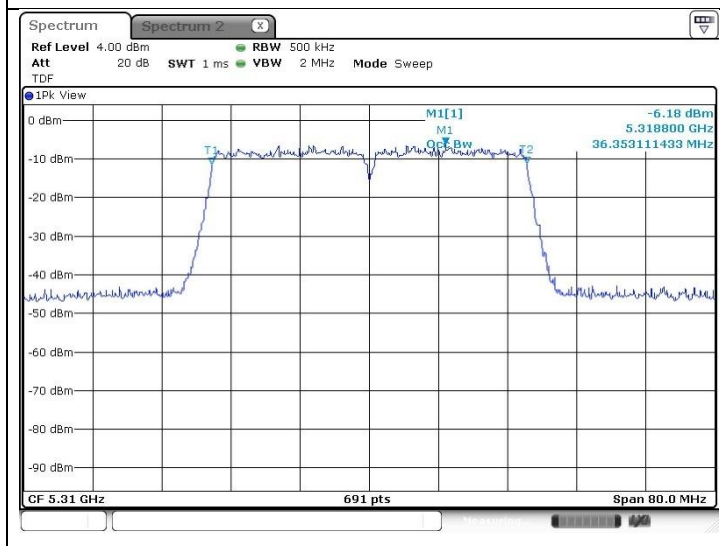


802.11ac_VHT40 (Band 2A)

Low Channel
(5 270 MHz)

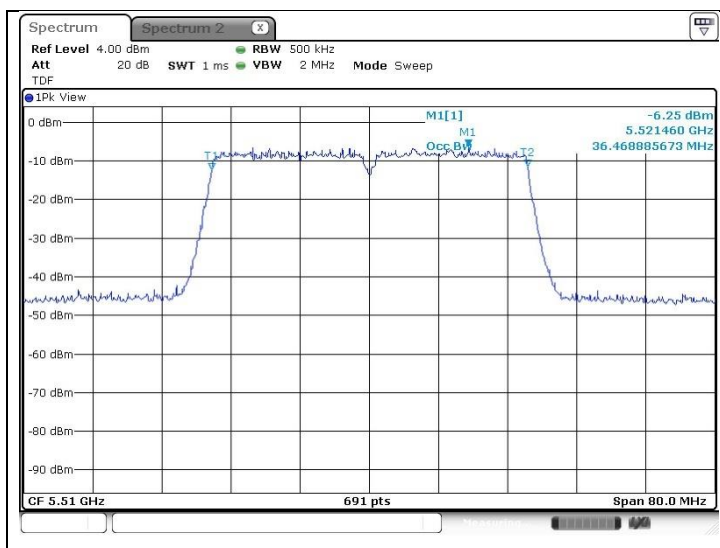


High Channel
(5 310 MHz)

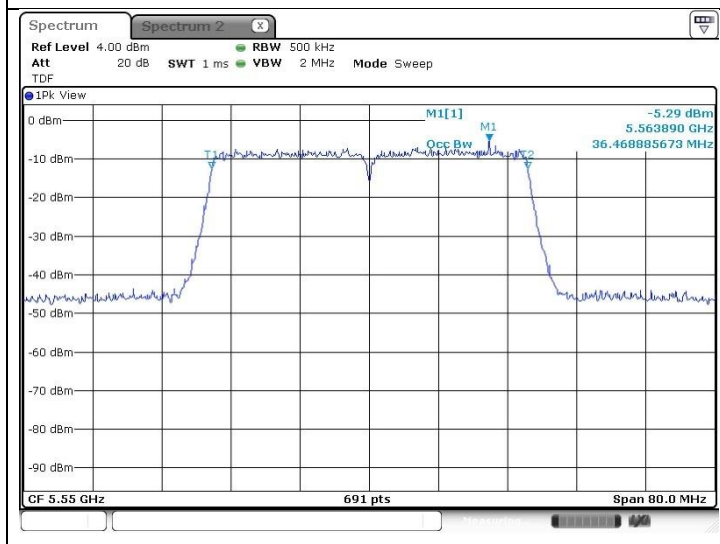


802.11ac_VHT40 (Band 2C)

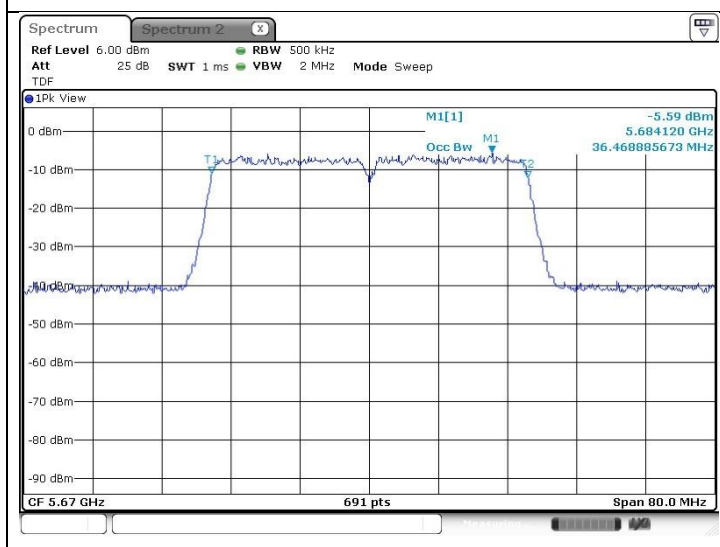
Low Channel
(5 510 MHz)



Middle Channel
(5 550 MHz)

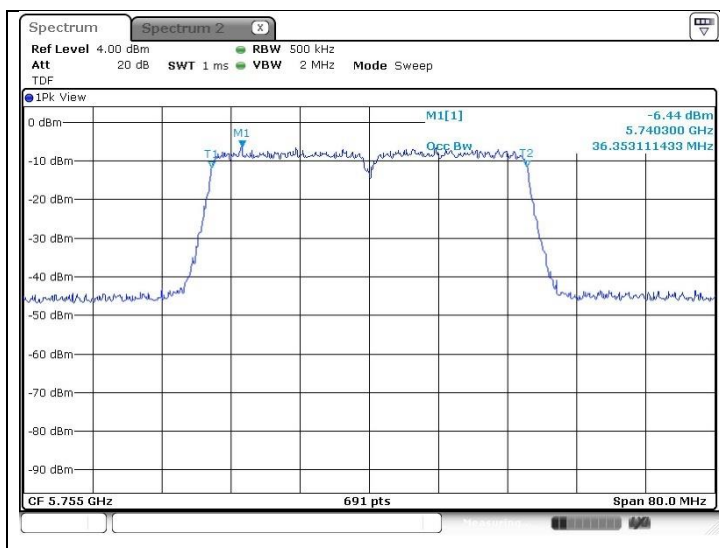


High Channel
(5 670 MHz)

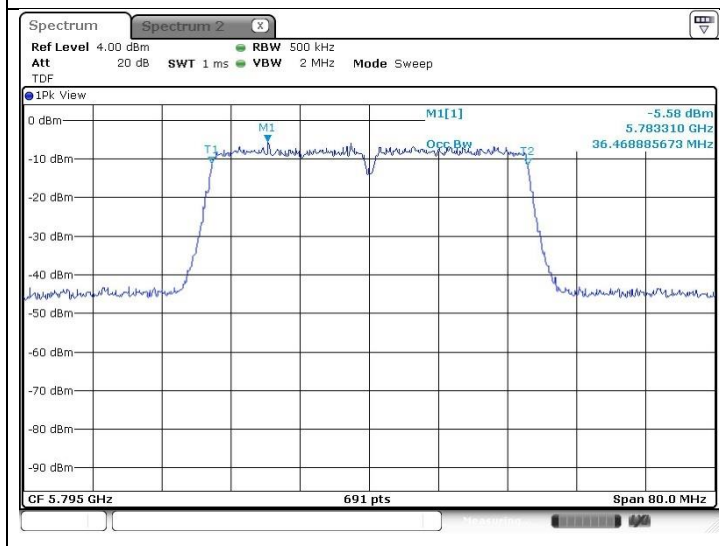


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

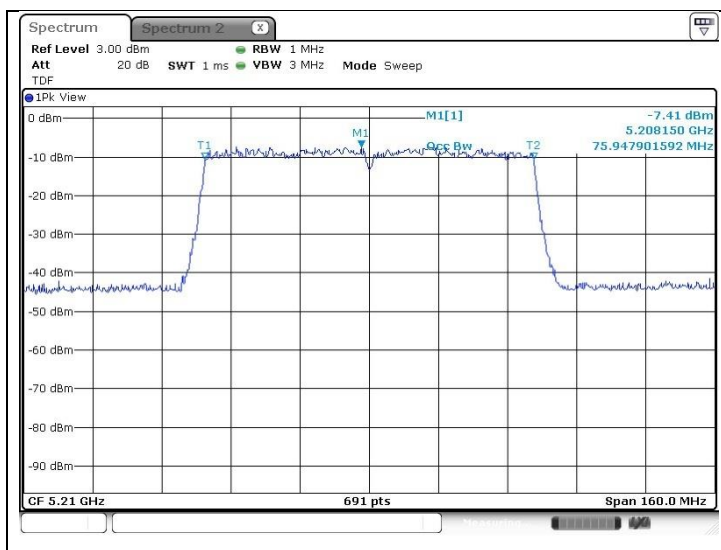


High Channel
(5 795 MHz)



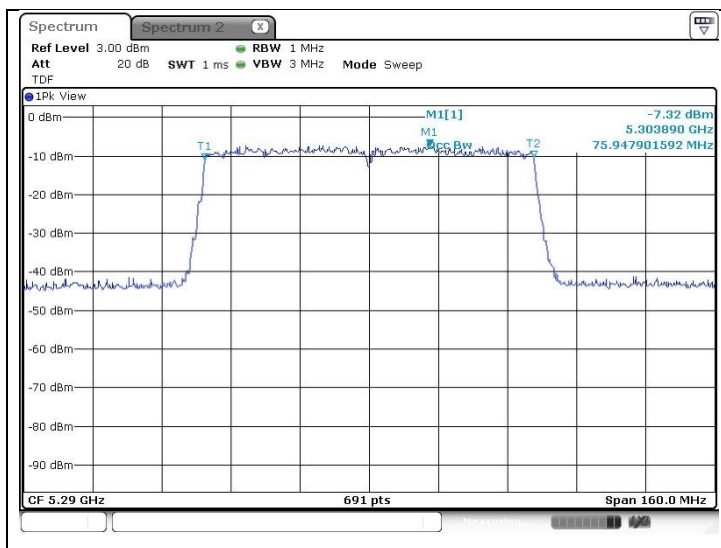
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 MHz)



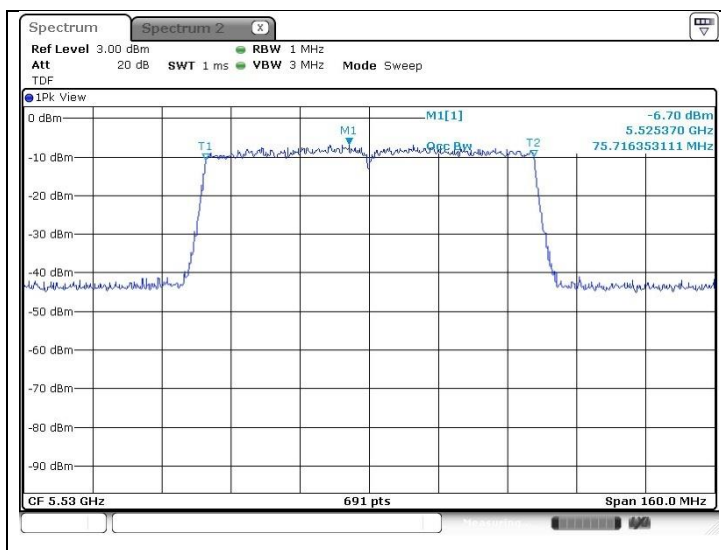
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 MHz)



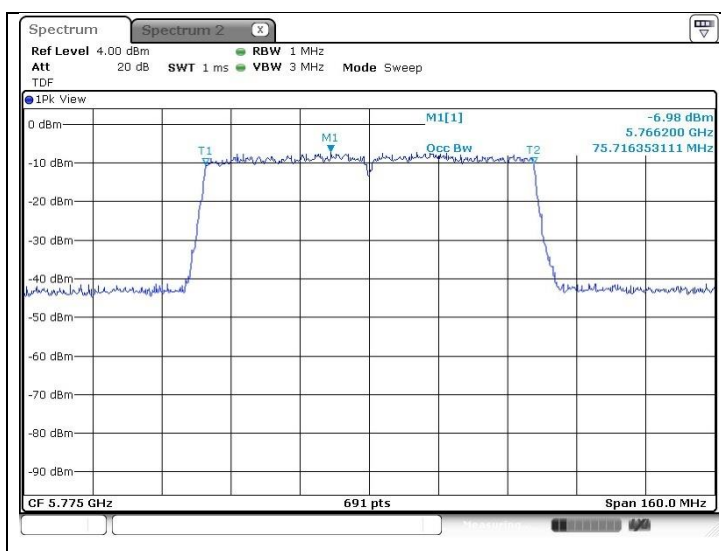
802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 MHz)



802.11ac_VHT80 (Band 3)

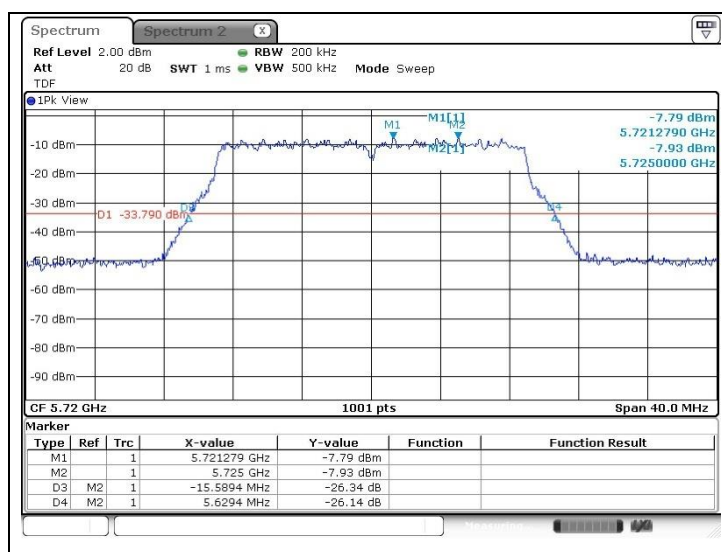
Middle Channel
(5 775 MHz)



Band-crossing channels

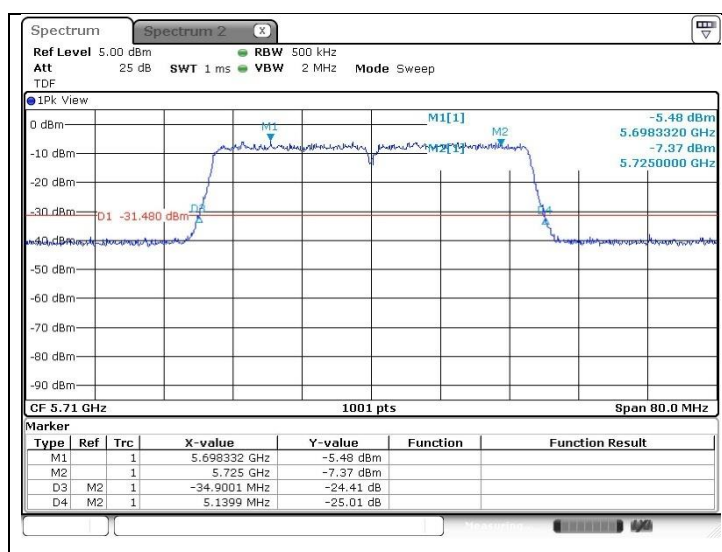
802.11n_HT20 (Band 2C)

High Channel
(5 720 MHz)



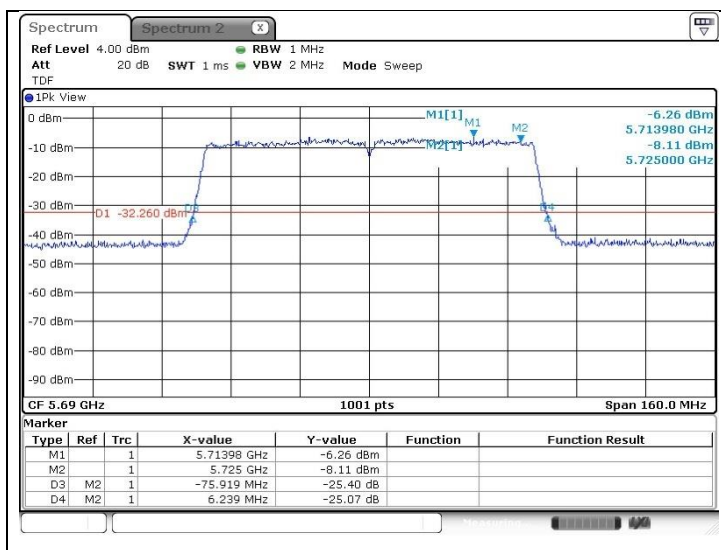
802.11ac_VHT40 (Band 2C)

High Channel
(5 710 MHz)



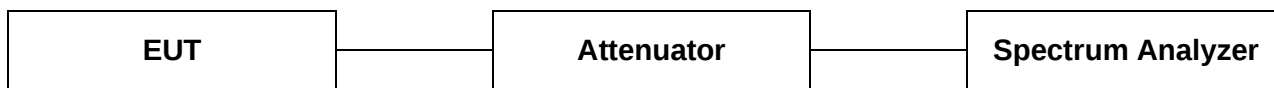
802.11ac_VHT80 (Band 2C)

High Channel
 (5 690 MHz)



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

4.2.1. FCC

According to §15.407(e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.2.2. IC

According to RSS-247 Issue 2, 6.2.4.1, the minimum 6 dB Bandwidth shall be at least 500 kHz.

4.3. Test Procedure

1. This measurement settings are specified in section II.C.2 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

Remark;

In case of band crossing channels 138, 142 and 144, the measurement is complied with section III.A of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

4.4. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

- SISO_Core 0

Band	Mode	Frequency (MHz)	Ch.	Data Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Bandwidth (kHz)
U-NII 3	11a	5 745	149	9	16.344	500
		5 785	157		16.344	
		5 825	165		16.344	
	11n_HT20	5 745	149	MCS2	17.662	
		5 785	157		17.622	
		5 825	165		17.642	
	11n_HT40	5 755	151	MCS0	35.844	
		5 795	159		35.764	
	11ac_VHT80	5 775	155	MCS2	75.285	
U-NII 3 (Band-crossing channels)	11a	5 720	144	9	3.182	500
	11n_HT20	5 720	144	MCS2	3.821	
	11n_HT40	5 710	142	MCS0	2.922	
	11ac_VHT80	5 690	138	MCS2	2.922	

- SISO_Core 1

Band	Mode	Frequency (MHz)	Ch.	Data Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Bandwidth (kHz)
U-NII 3	11a	5 745	149	6	16.344	500
		5 785	157		16.344	
		5 825	165		16.344	
	11ac_VHT20	5 745	149	MCS2	17.642	
		5 785	157		17.582	
		5 825	165		17.642	
	11n_HT40	5 755	151	MCS2	35.764	
		5 795	159		35.764	
	11ac_VHT80	5 775	155	MCS1	75.525	
U-NII 3 (Band-crossing channels)	11a	5 720	144	6	3.182	500
	11ac_VHT20	5 720	144	MCS2	3.841	
	11n_HT40	5 710	142	MCS2	3.202	
	11ac_VHT80	5 690	138	MCS1	2.922	

- MIMO

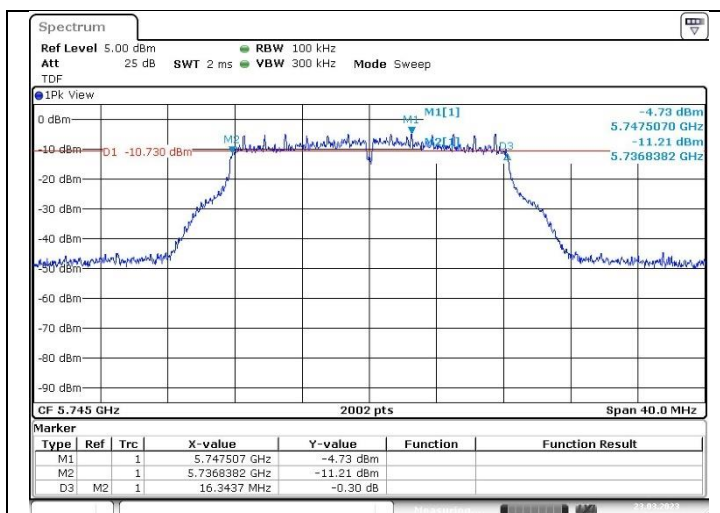
Band	Mode	Frequency (MHz)	Ch.	Data Rate (Mbps)	6 dB Bandwidth (MHz)		Minimum Bandwidth (kHz)
					ANT 1	ANT 2	
U-NII 3	11n_HT20	5 745	149	MCS13	17.742	17.682	500
		5 785	157		17.722	17.722	
		5 825	165		17.762	17.702	
	11ac_VHT40	5 755	151	MCS3	36.484	36.524	
		5 795	159		36.484	36.484	
	11ac_VHT80	5 775	155	MCS6	76.563	76.164	
U-NII 3 (Band- crossing channels)	11n_HT20	5 720	144	MCS13	3.881	3.841	
	11ac_VHT40	5 710	142	MCS3	3.242	3.242	
	11ac_VHT80	5 690	138	MCS6	3.322	3.242	

- Test plots

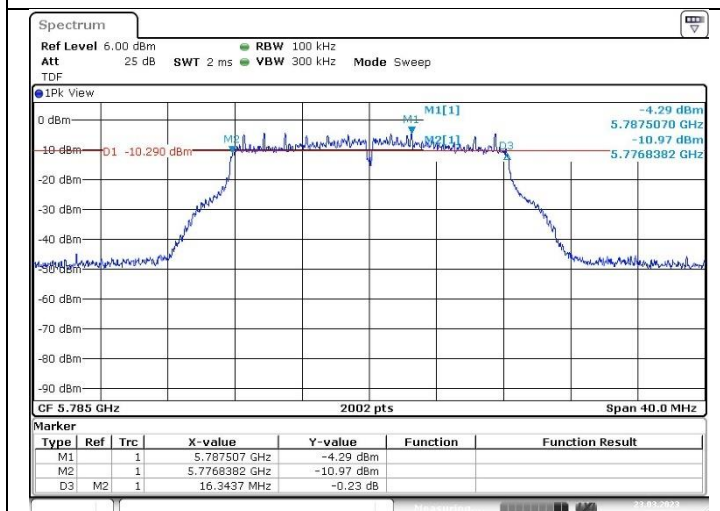
- SISO_Core 0

802.11a (Band 3)

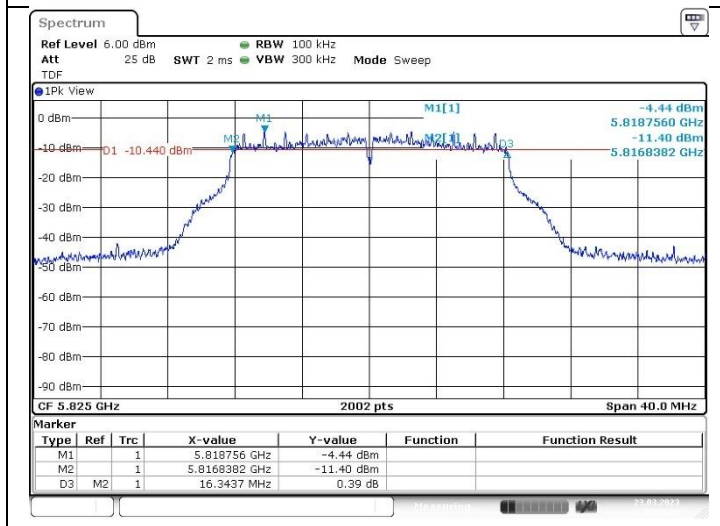
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

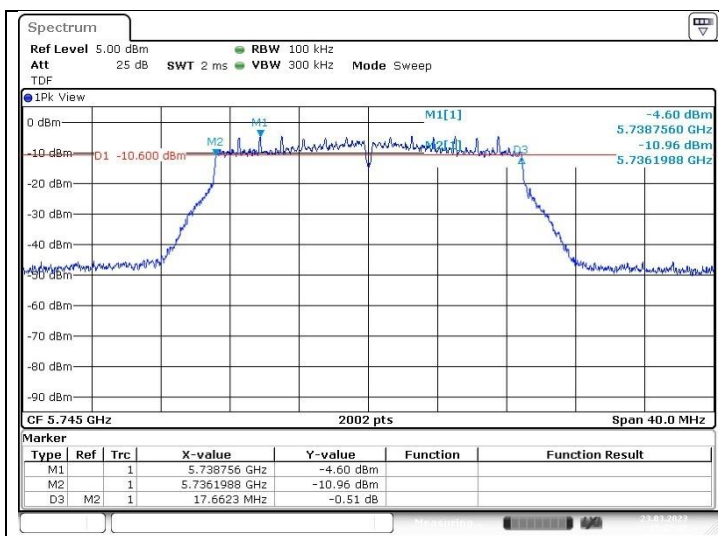


High Channel
(5 825 MHz)

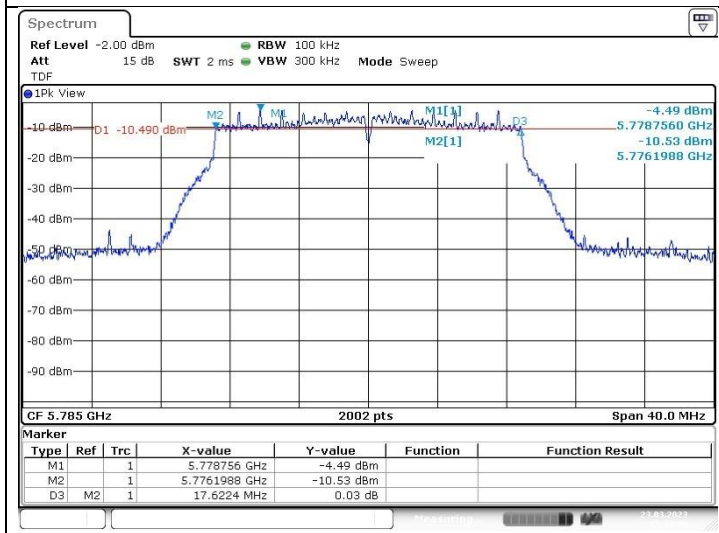


802.11n_HT20 (Band 3)

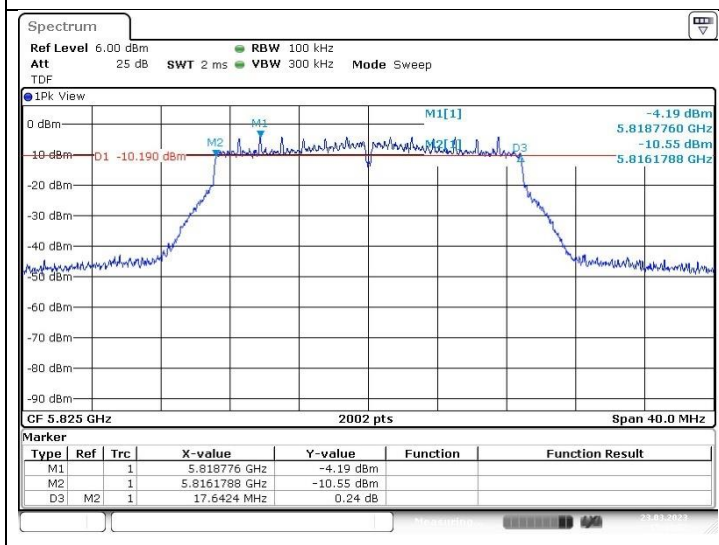
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

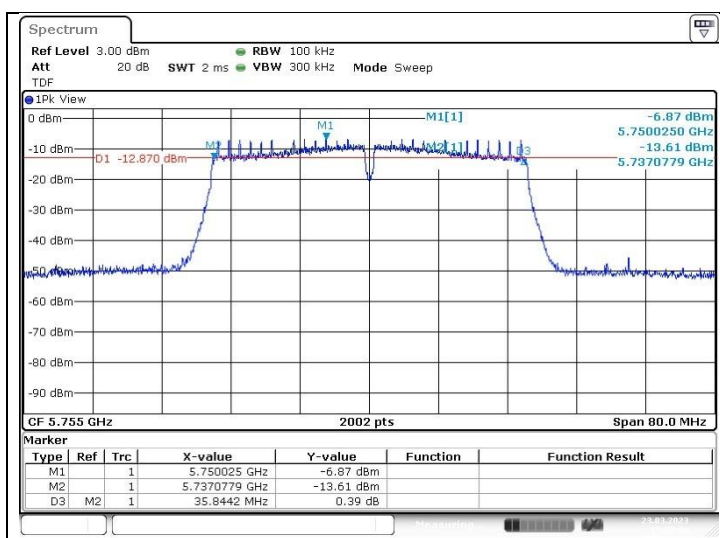


High Channel
(5 825 MHz)

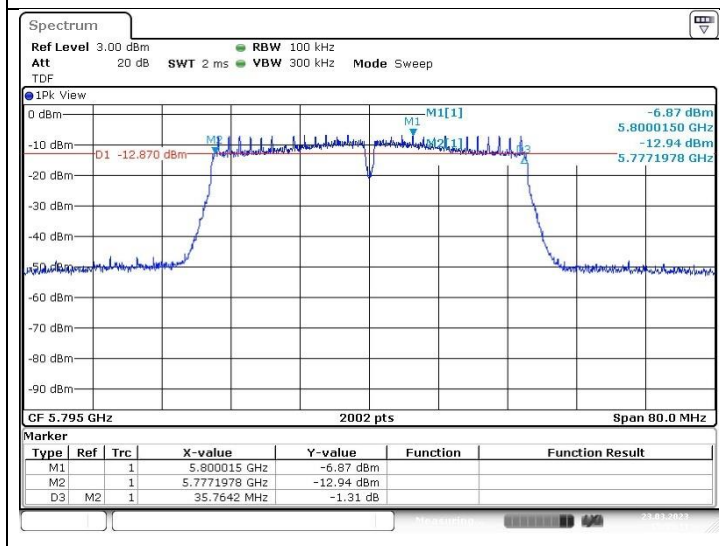


802.11n_HT40 (Band 3)

Low Channel
(5 755 MHz)

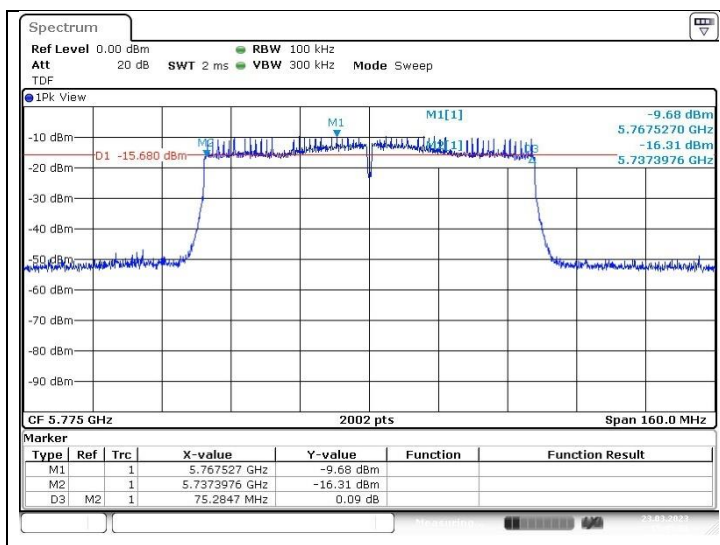


High Channel
(5 795 MHz)



802.11ac_VHT80 (Band 3)

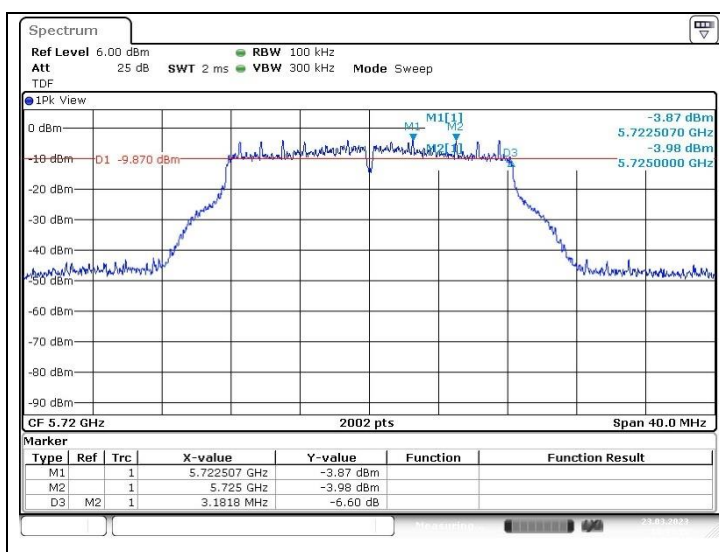
Middle Channel
(5 775 MHz)



Band-crossing channels

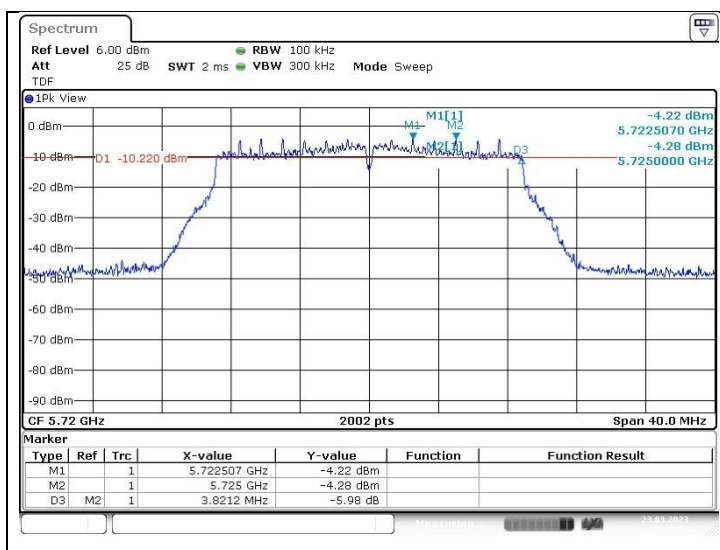
802.11a (Band 3)

High Channel
(5 720 MHz)



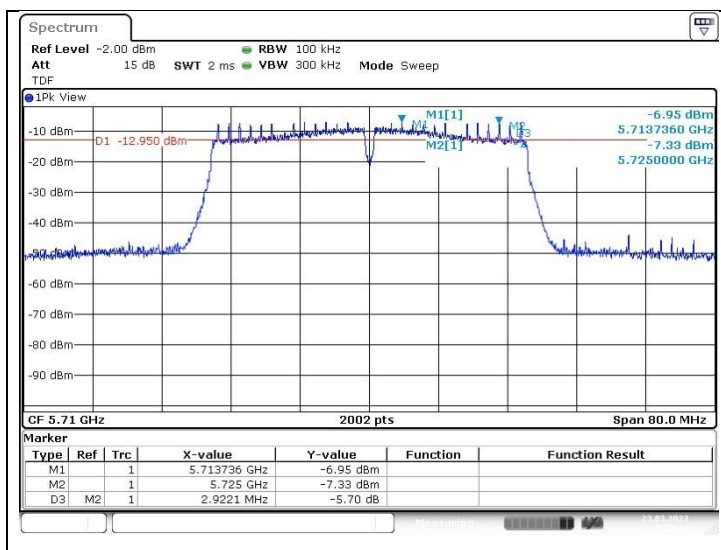
802.11n_HT20 (Band 3)

High Channel
(5 720 MHz)



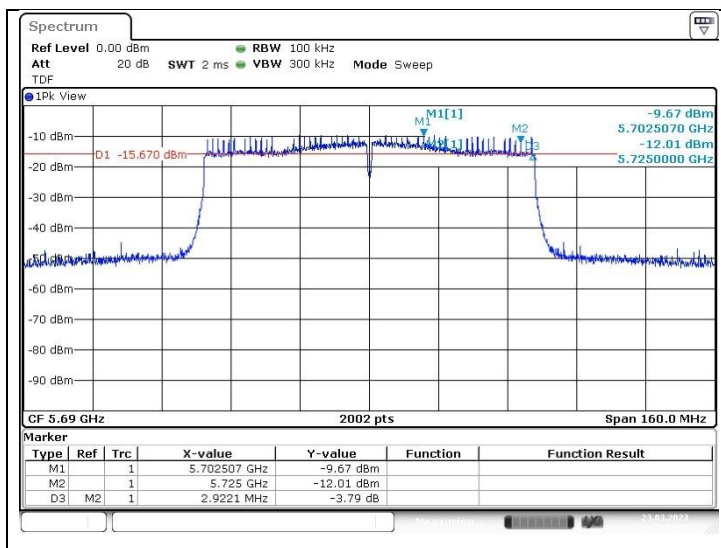
802.11n_HT40 (Band 3)

High Channel
(5 710 MHz)



802.11ac_VHT80 (Band 3)

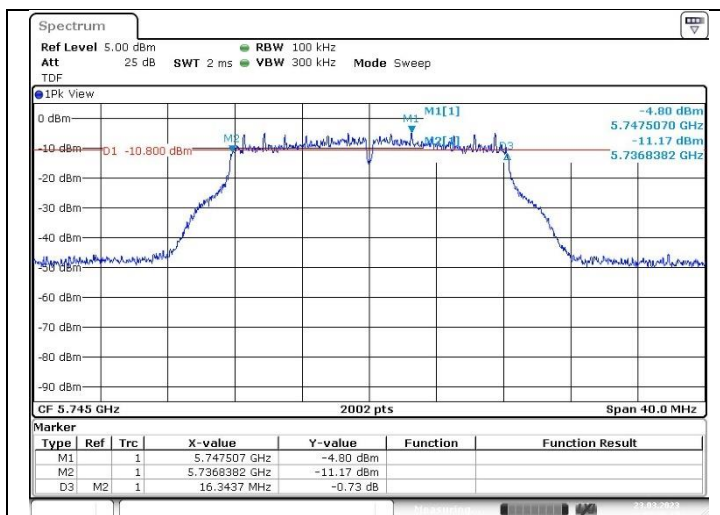
Middle Channel
(5 690 MHz)



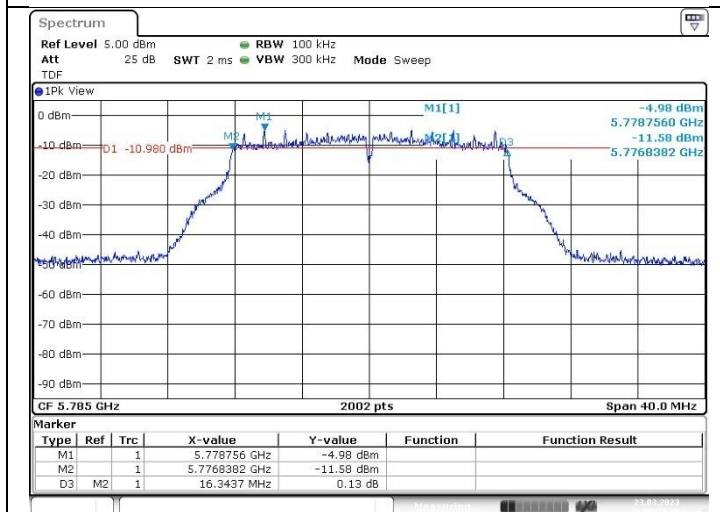
- SISO_Core 1

802.11a (Band 3)

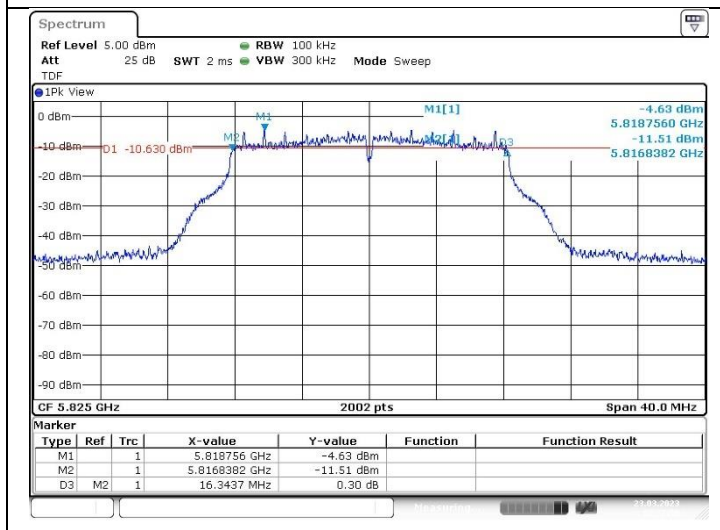
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

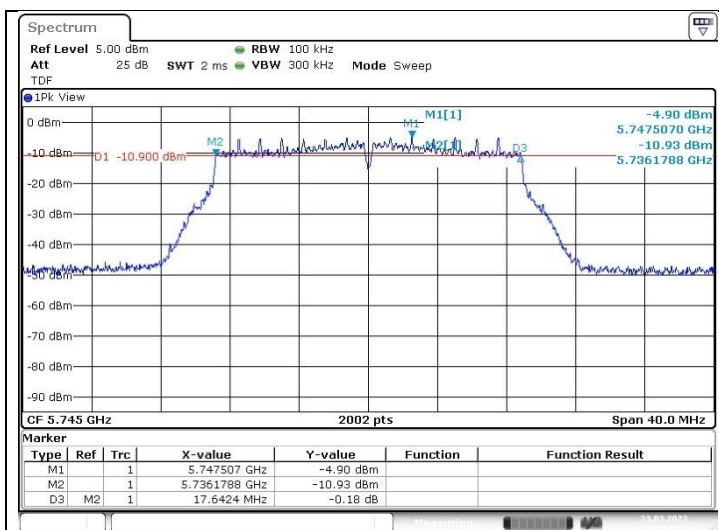


High Channel
(5 825 MHz)

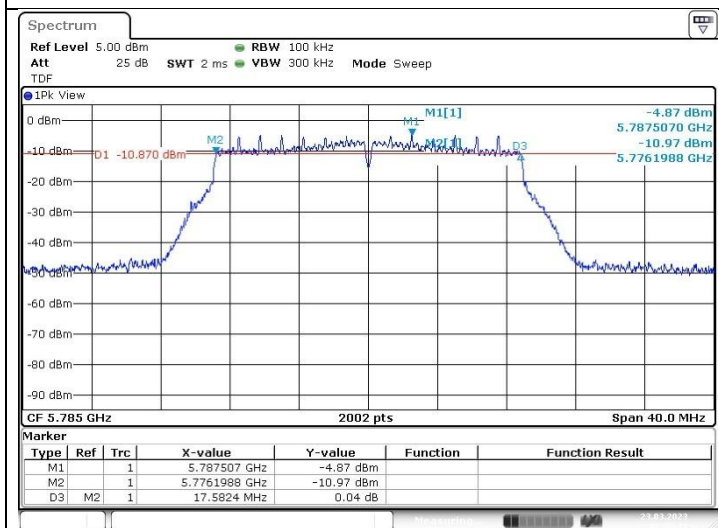


802.11ac_VHT20 (Band 3)

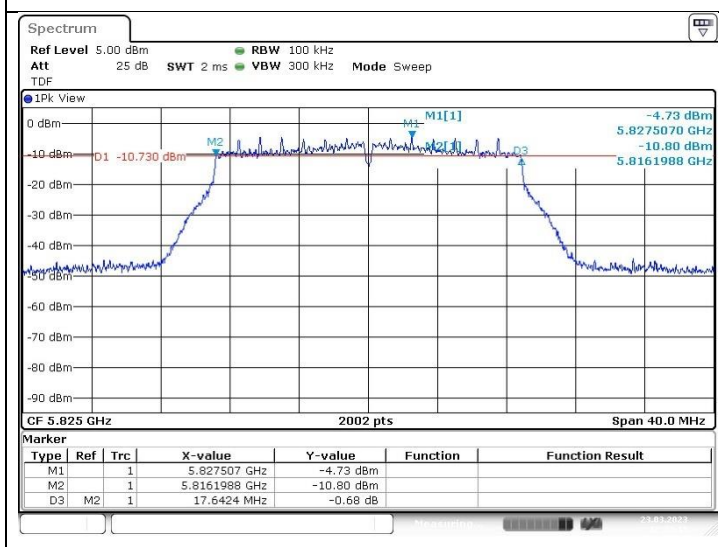
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

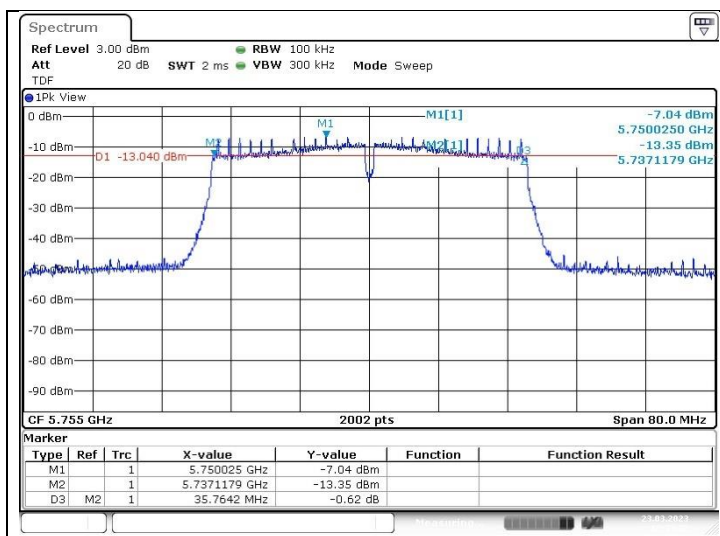


High Channel
(5 825 MHz)

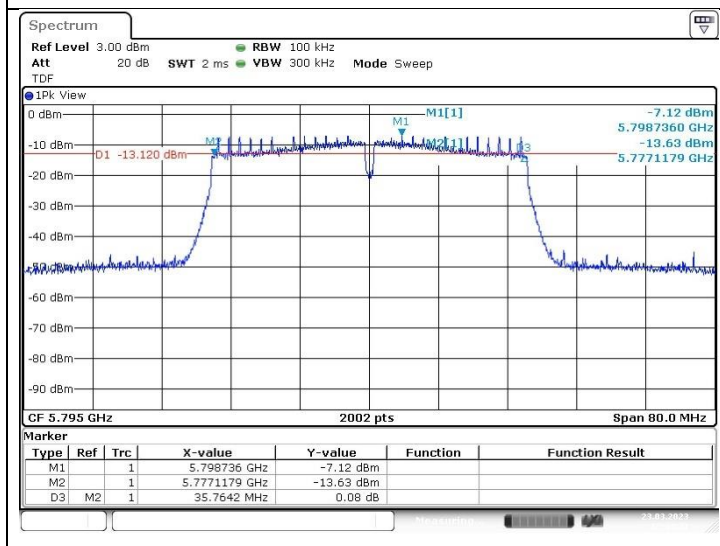


802.11n_HT40 (Band 3)

Low Channel
(5 755 MHz)

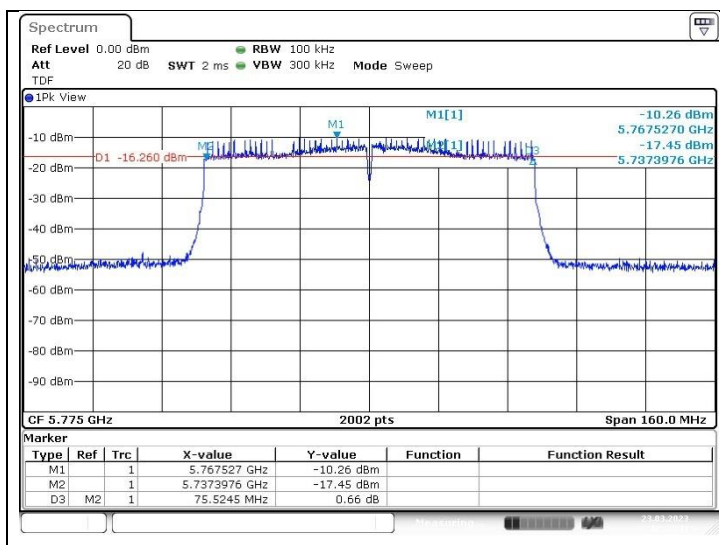


High Channel
(5 795 MHz)



802.11ac_VHT80 (Band 3)

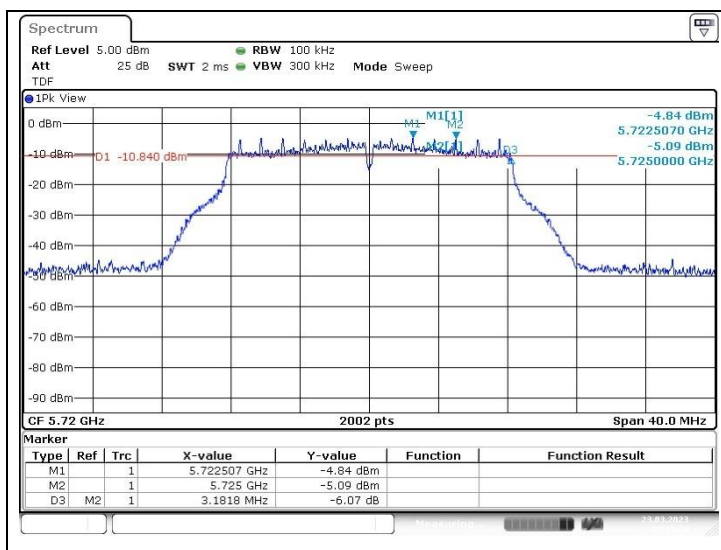
Middle Channel
(5 775 MHz)



Band-crossing channels

802.11a (Band 3)

High Channel
(5 720 MHz)



802.11ac_VHT20 (Band 3)

High Channel
(5 720 MHz)

