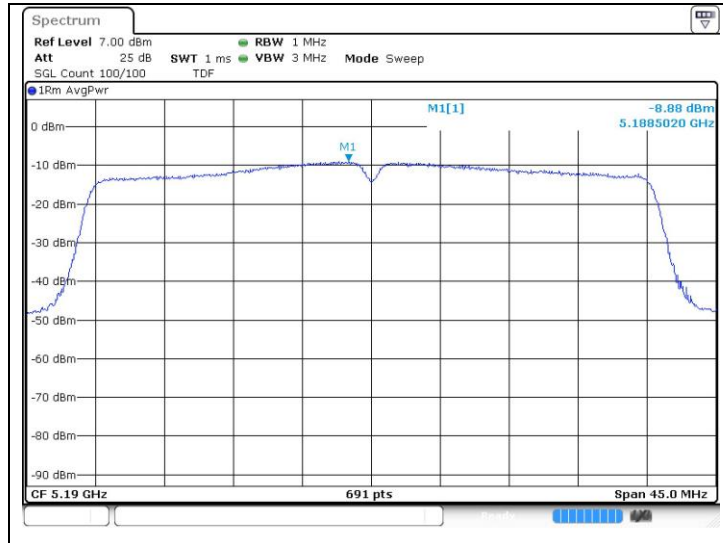
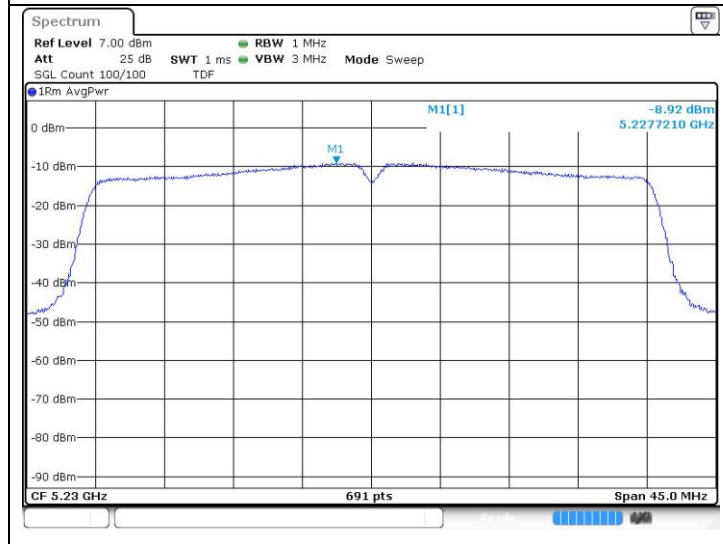


802.11ac_VHT40 (Band 1)

Low Channel
(5 190 MHz)

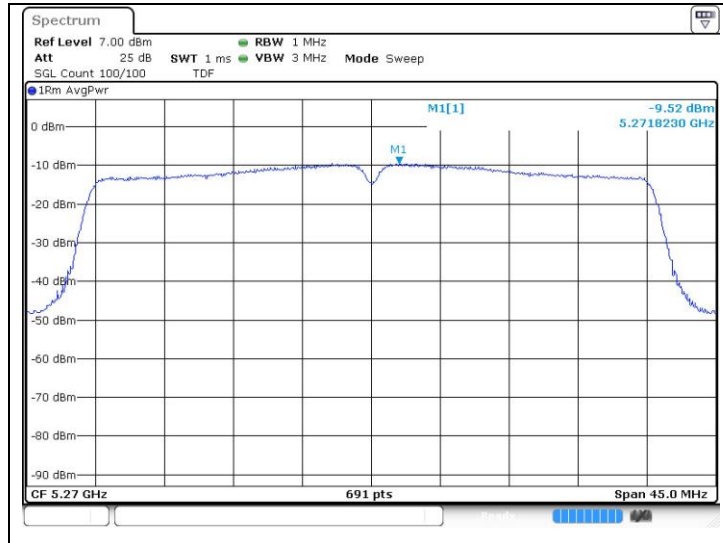


High Channel
(5 230 MHz)

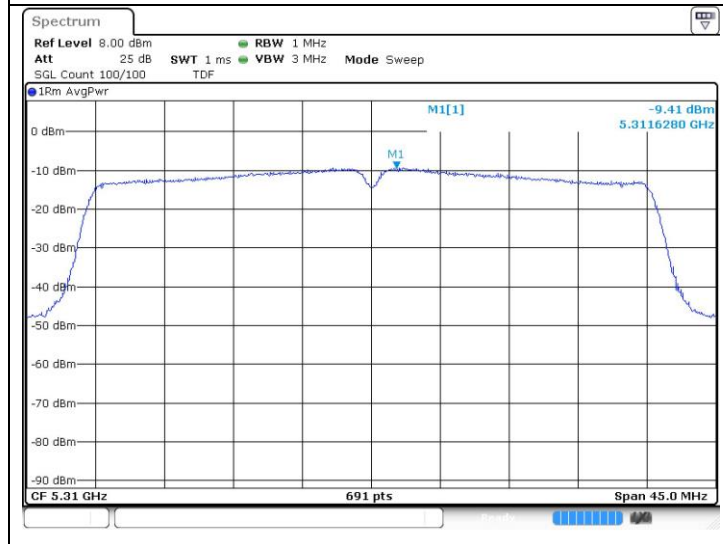


802.11ac_VHT40 (Band 2A)

Low Channel
(5 270 MHz)

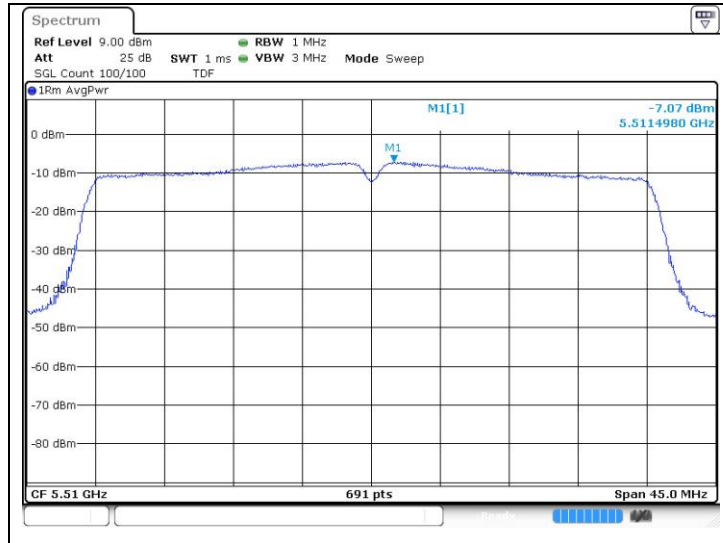


High Channel
(5 310 MHz)

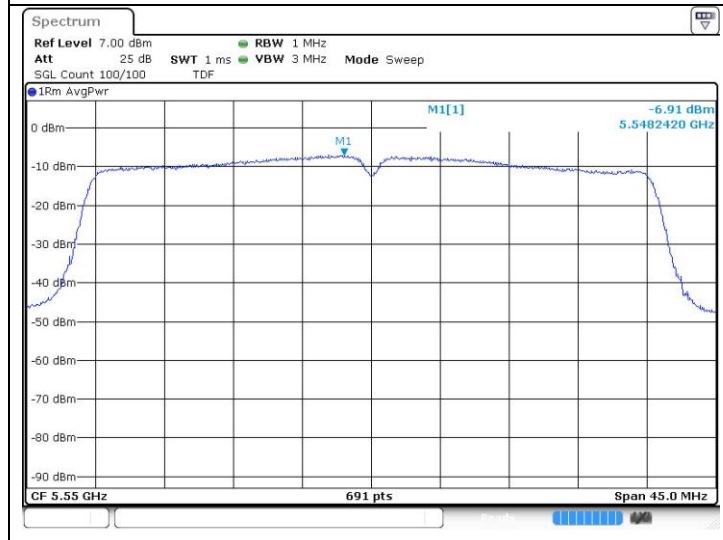


802.11ac_VHT40 (Band 2C)

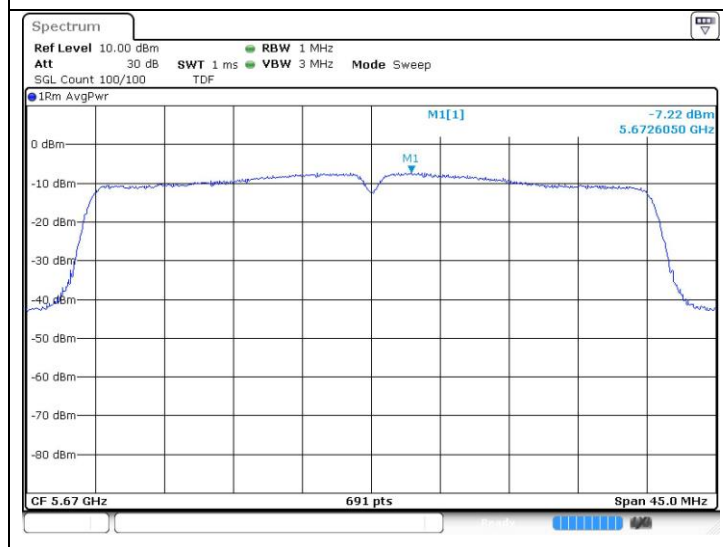
Low Channel
(5 510 MHz)



Middle Channel
(5 550 MHz)

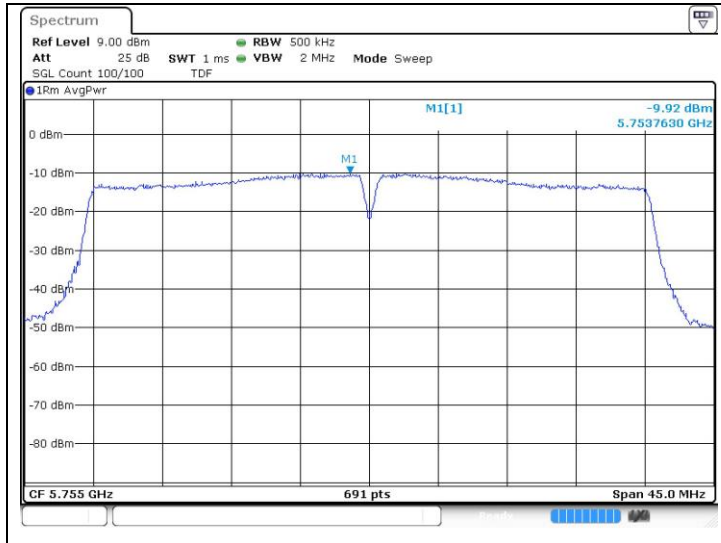


High Channel
(5 670 MHz)

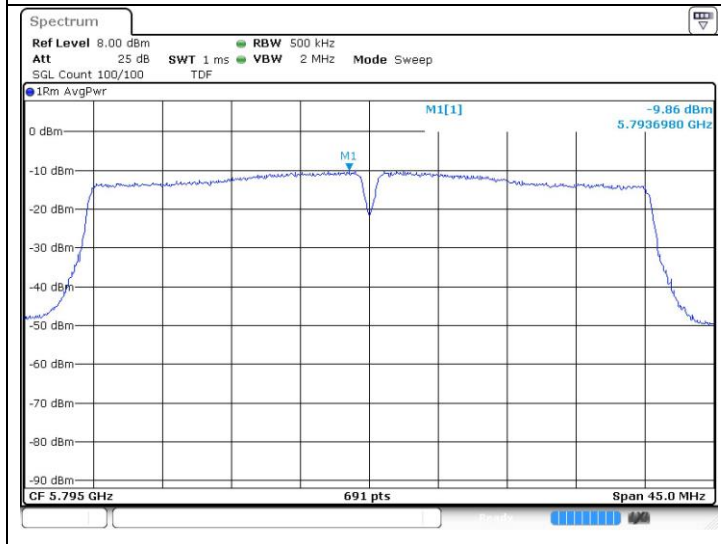


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

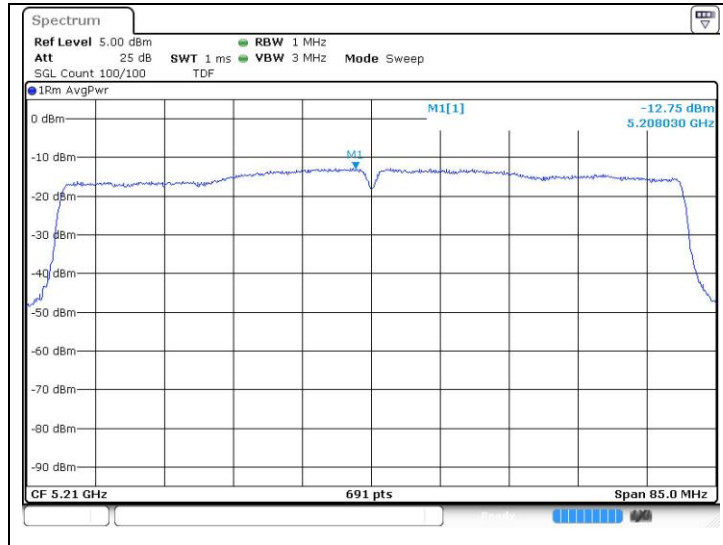


High Channel
(5 795 MHz)



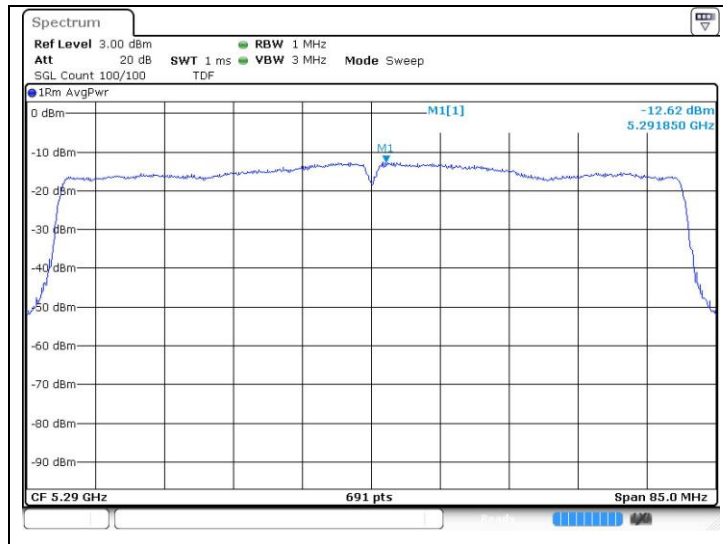
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 MHz)



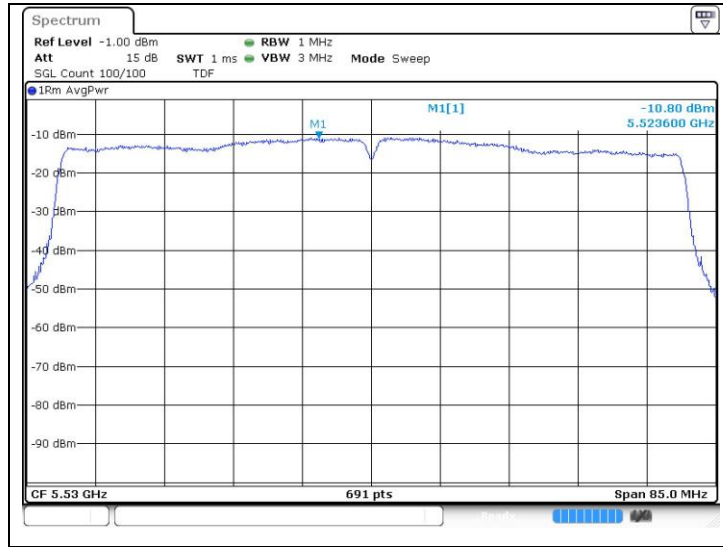
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 MHz)



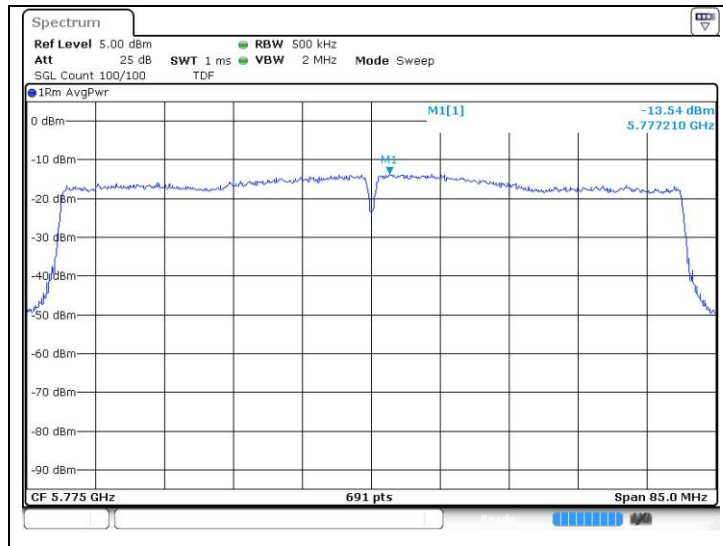
802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 MHz)



802.11ac_VHT80 (Band 3)

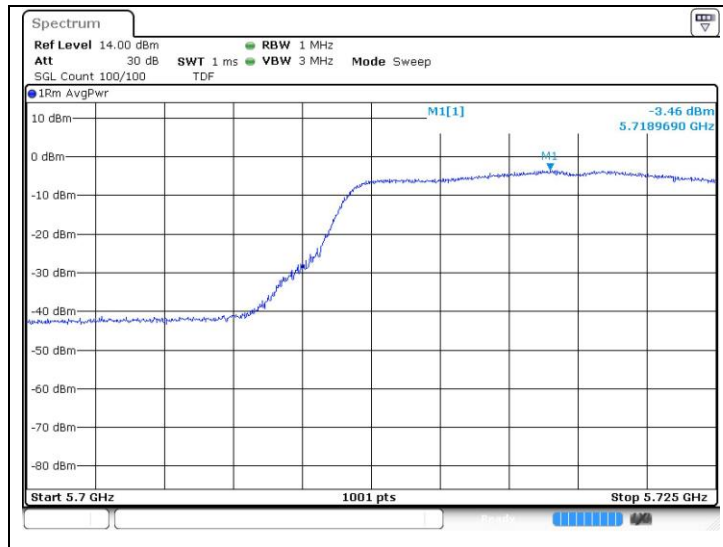
Middle Channel
(5 775 MHz)



Band-crossing channels

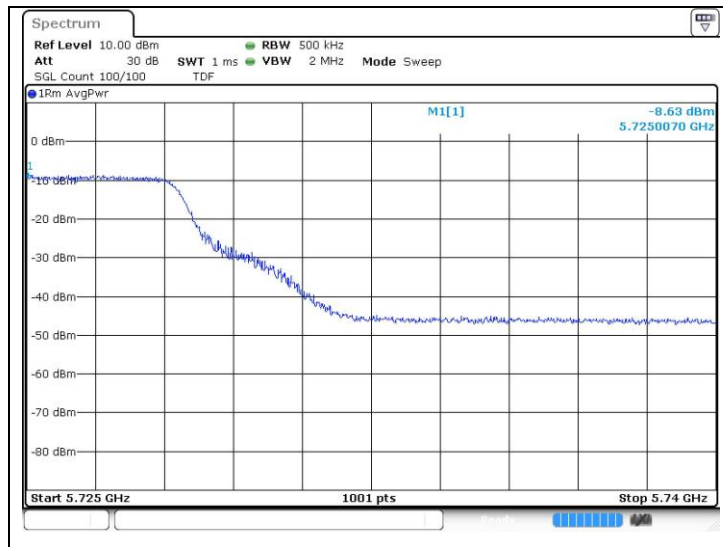
802.11a (Band 2C)

High Channel
 (5 720 MHz)



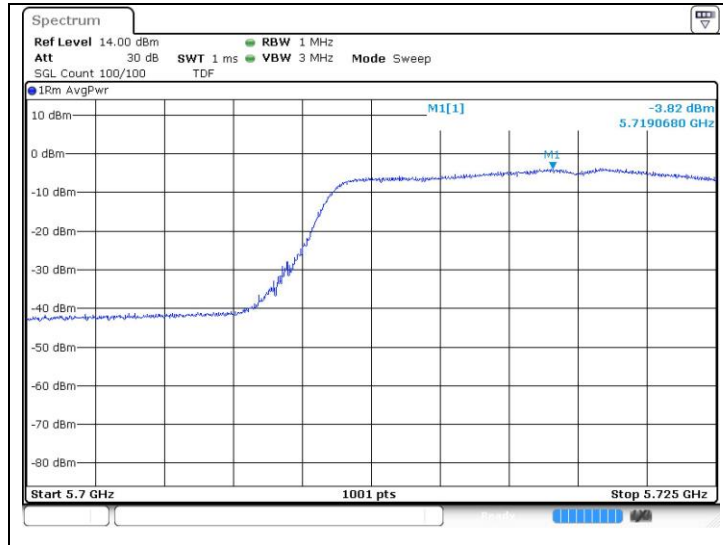
802.11a (Band 3)

High Channel
 (5 720 MHz)



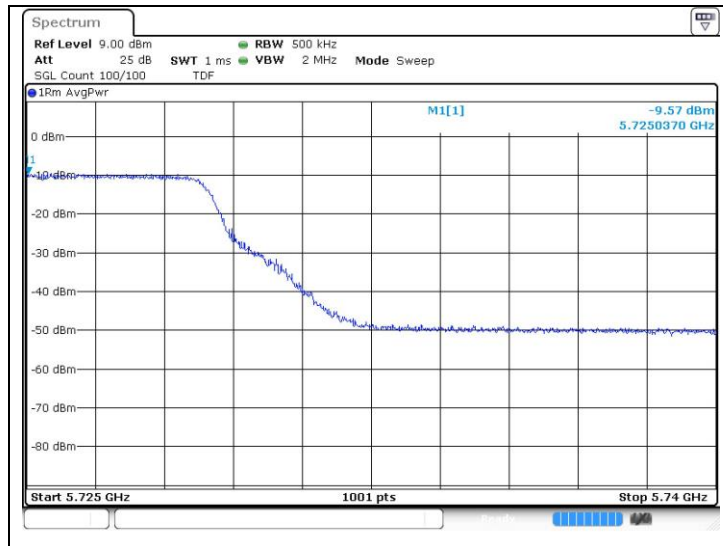
802.11ac_VHT20 (Band 2C)

High Channel
 (5 720 MHz)



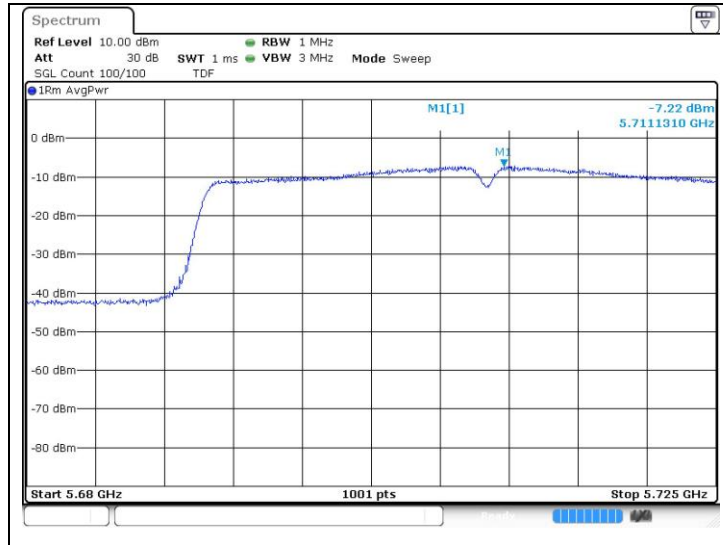
802.11ac_VHT20 (Band 3)

High Channel
 (5 720 MHz)



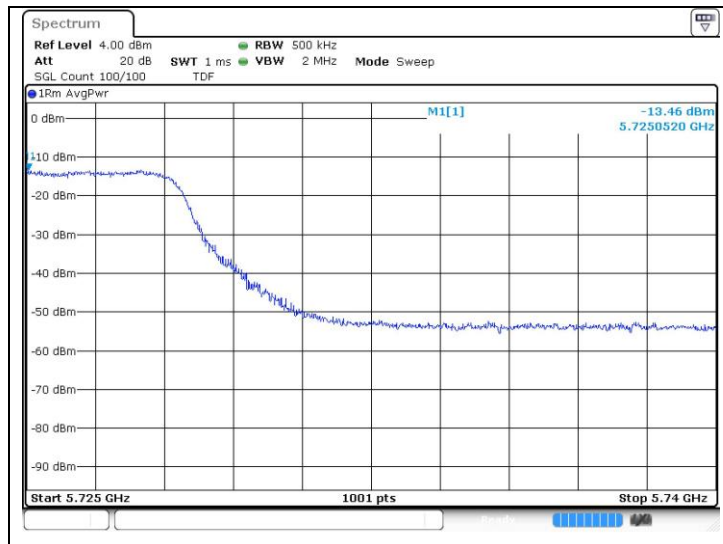
802.11ac_VHT40 (Band 2C)

High Channel
 (5 710 MHz)



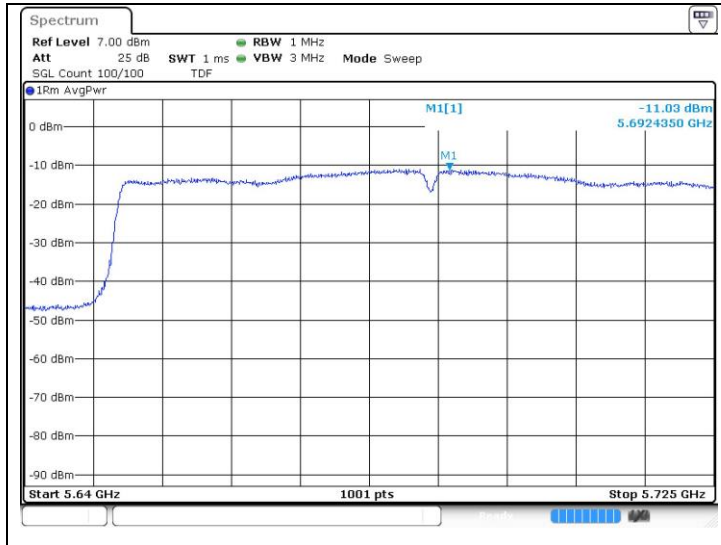
802.11ac_VHT40 (Band 3)

High Channel
 (5 710 MHz)



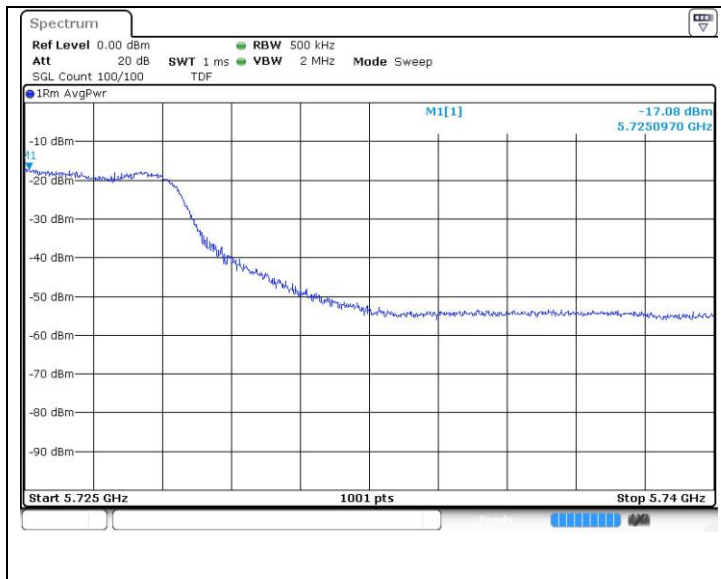
802.11ac_VHT80 (Band 2C)

Middle Channel
(5 690 MHz)



802.11ac_VHT80 (Band 3)

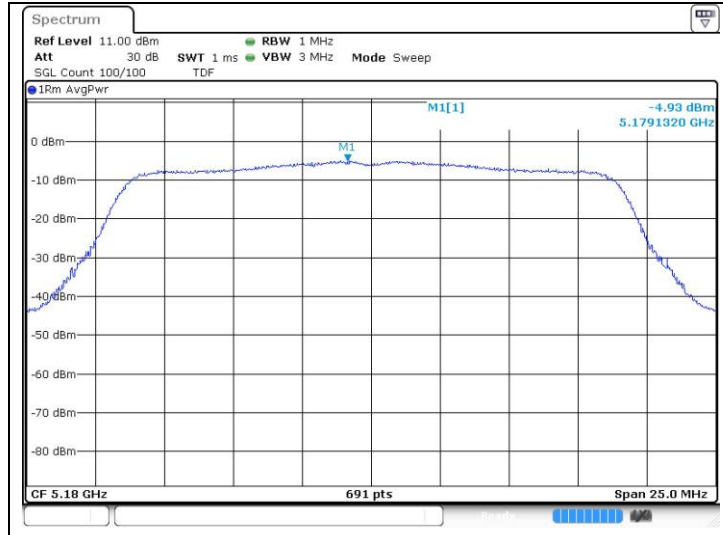
Middle Channel
(5 690 MHz)



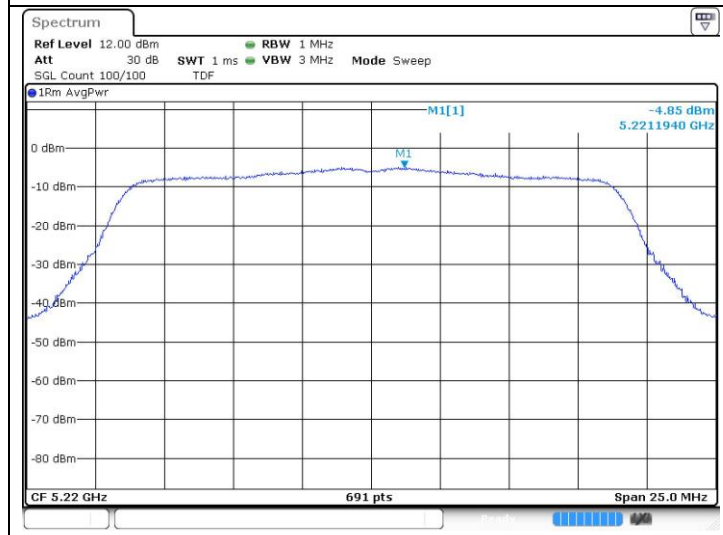
- MIMO_Ant.1

802.11ac_VHT20 (Band 1)

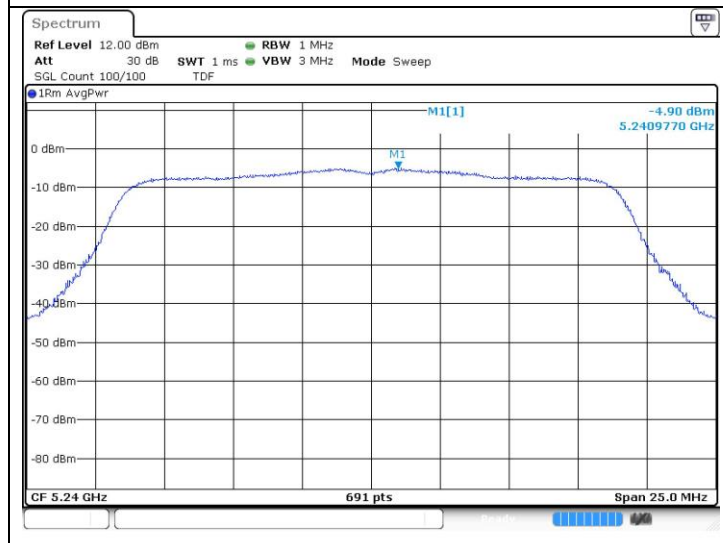
Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

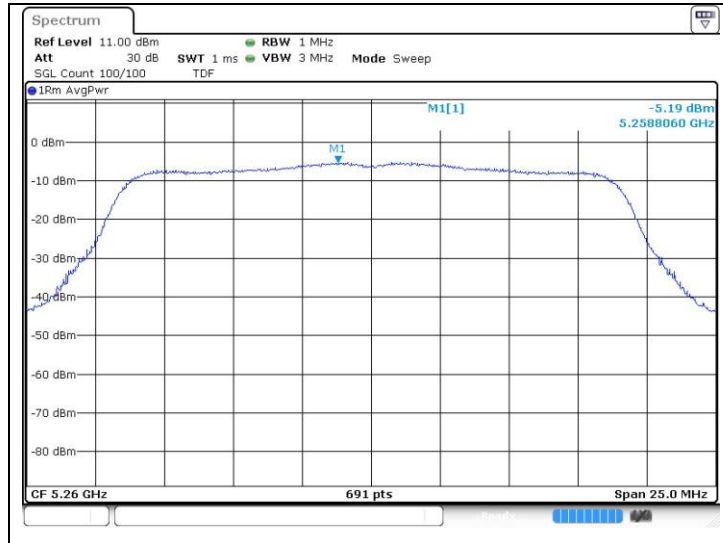


High Channel
(5 240 MHz)

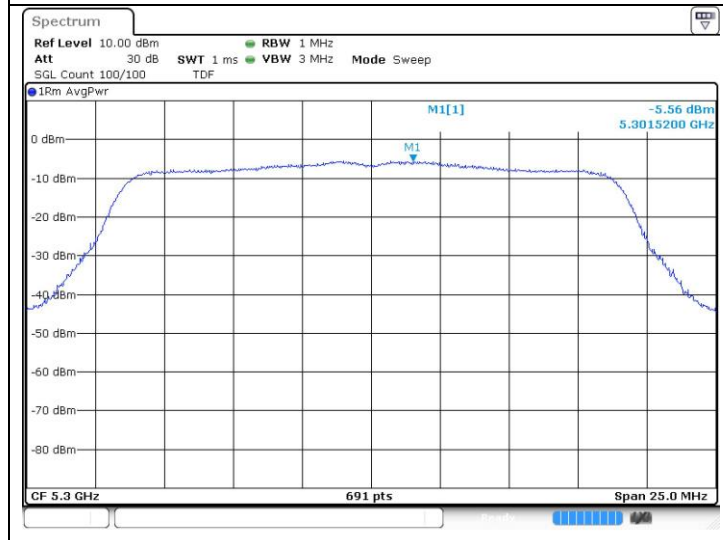


802.11ac_VHT20 (Band 2A)

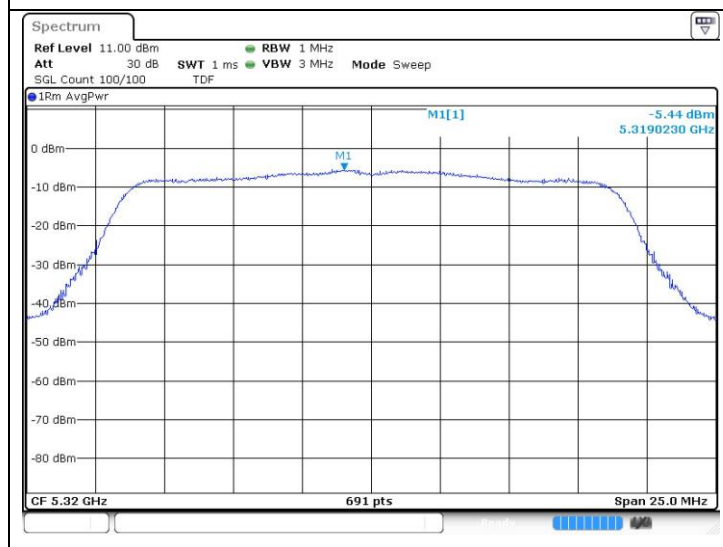
Low Channel
(5 260 MHz)



Middle Channel
(5 300 MHz)

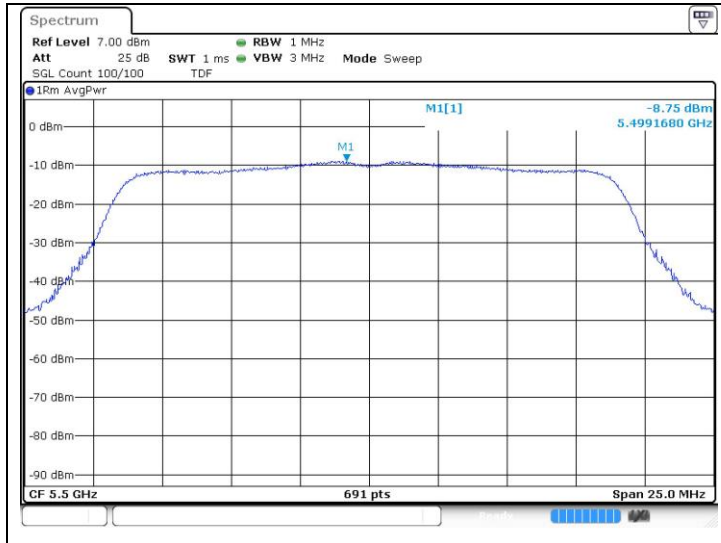


High Channel
(5 320 MHz)

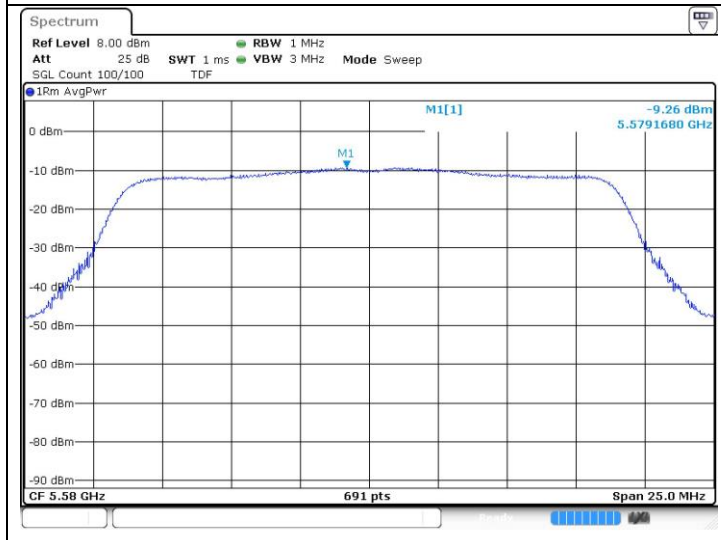


802.11ac_VHT20 (Band 2C)

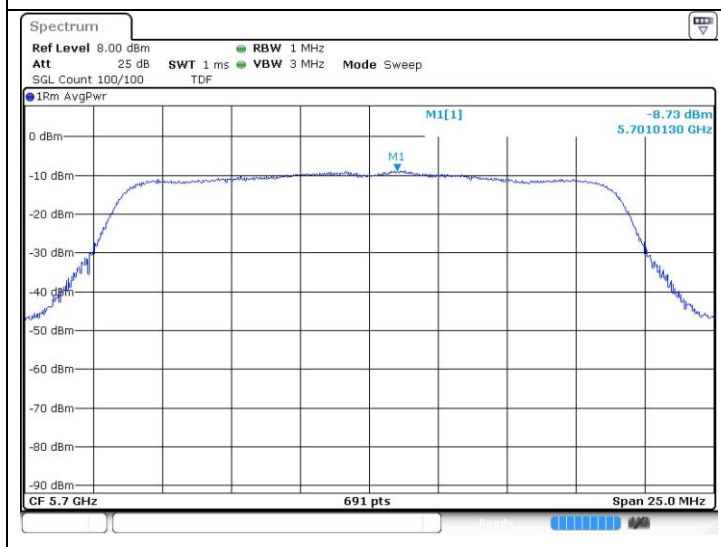
Low Channel
(5 500 MHz)



Middle Channel
(5 580 MHz)

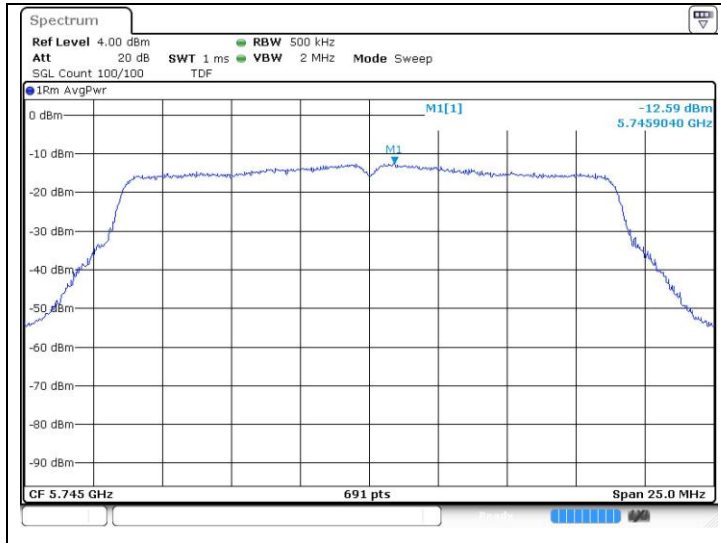


High Channel
(5 700 MHz)

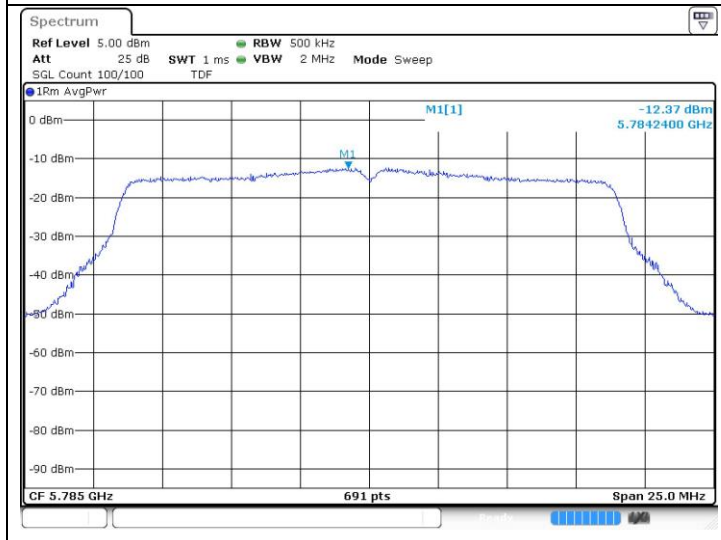


802.11ac_VHT20 (Band 3)

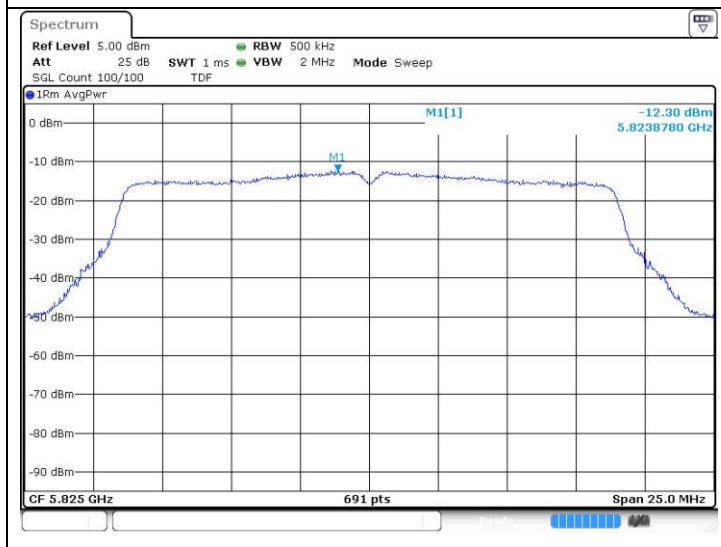
Low Channel
 (5 745 MHz)



Middle Channel
 (5 785 MHz)

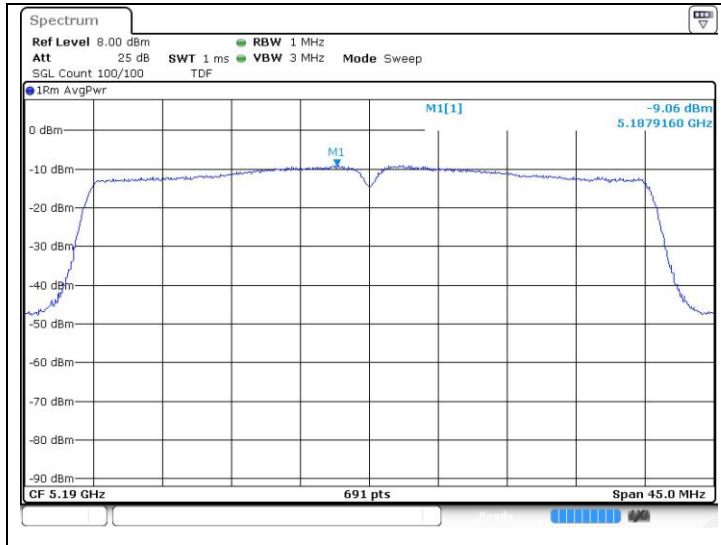


High Channel
 (5 825 MHz)

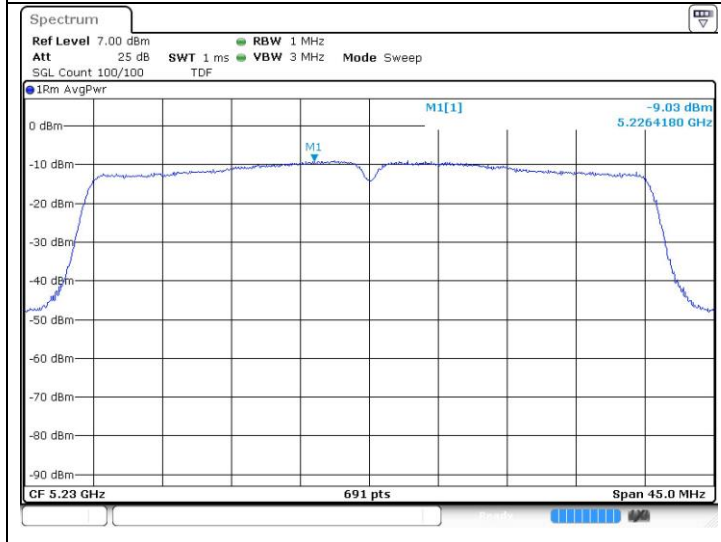


802.11ac_VHT40 (Band 1)

Low Channel
(5 190 MHz)

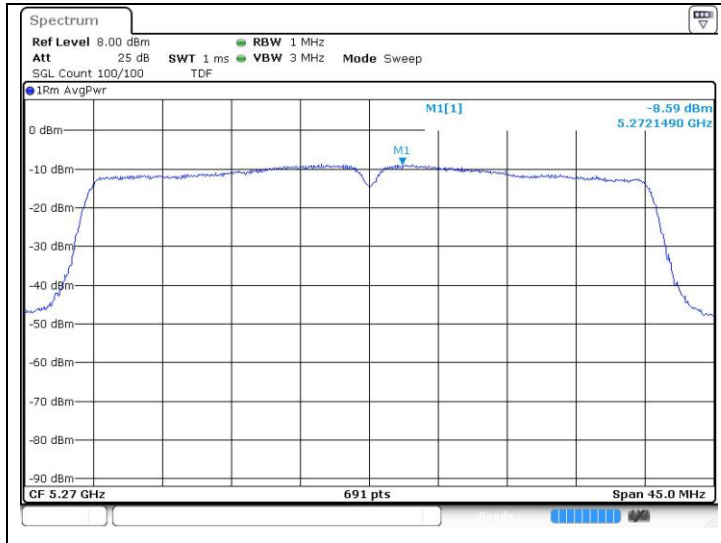


High Channel
(5 230 MHz)

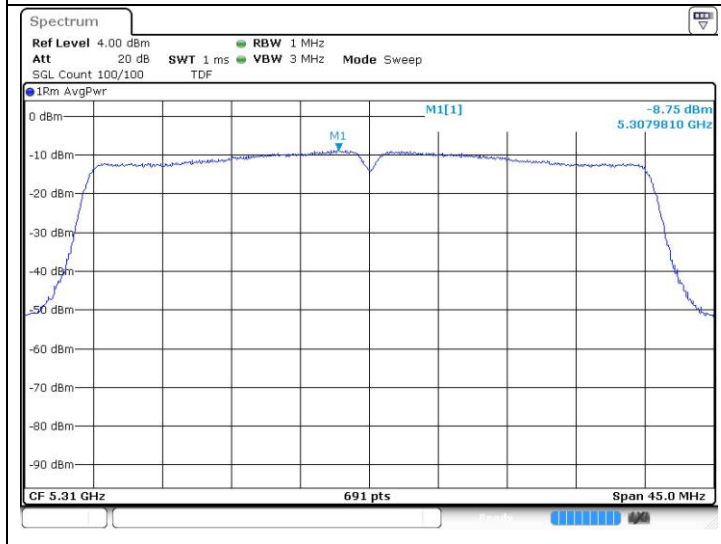


802.11ac_VHT40 (Band 2A)

Low Channel
(5 270 MHz)

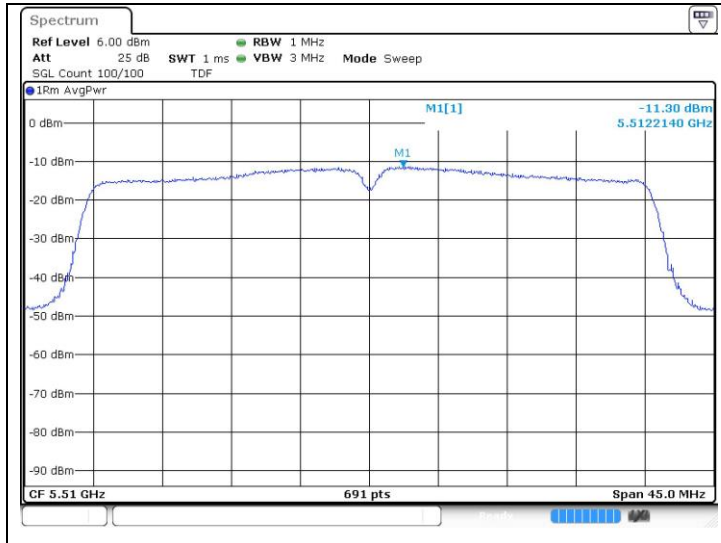


High Channel
(5 310 MHz)

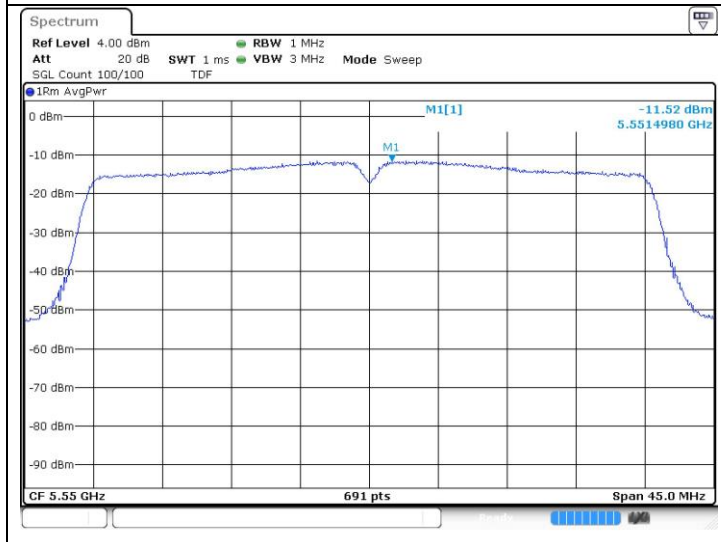


802.11ac_VHT40 (Band 2C)

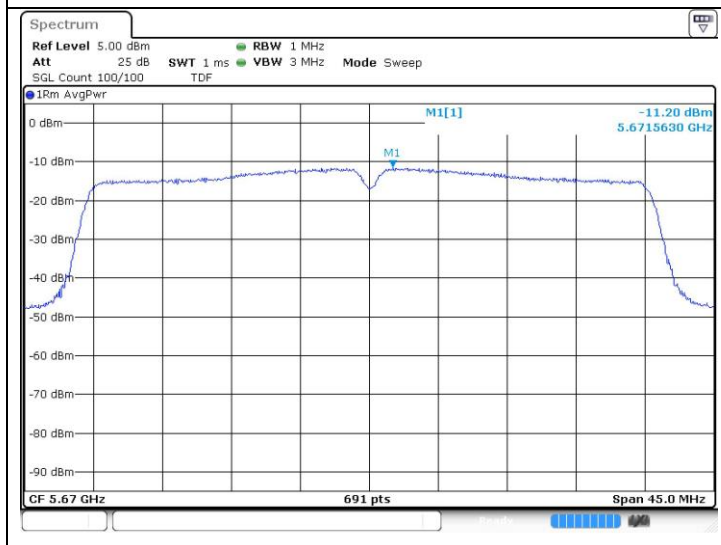
Low Channel
(5 510 MHz)



Middle Channel
(5 550 MHz)

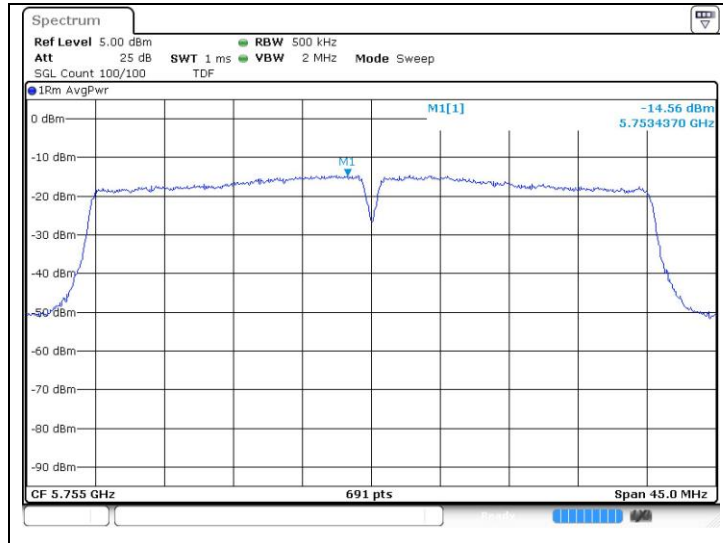


High Channel
(5 670 MHz)

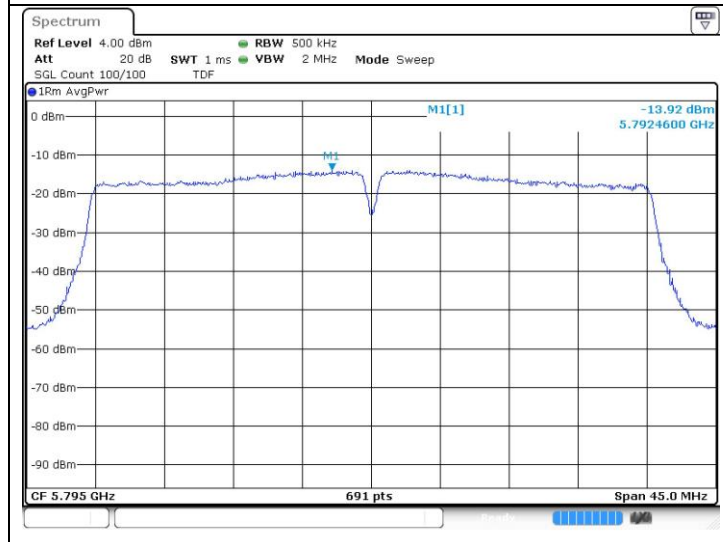


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

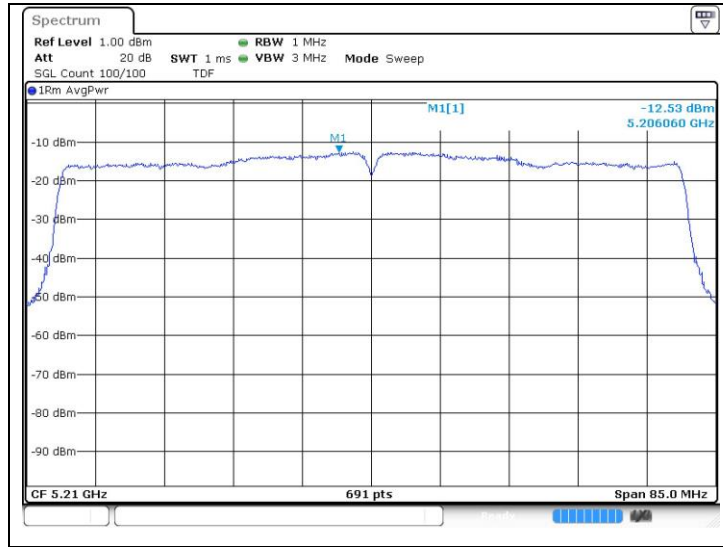


High Channel
(5 795 MHz)



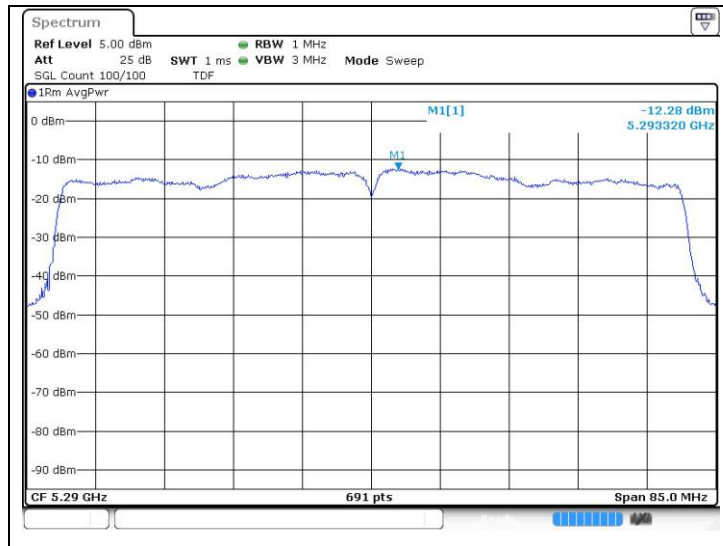
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 MHz)



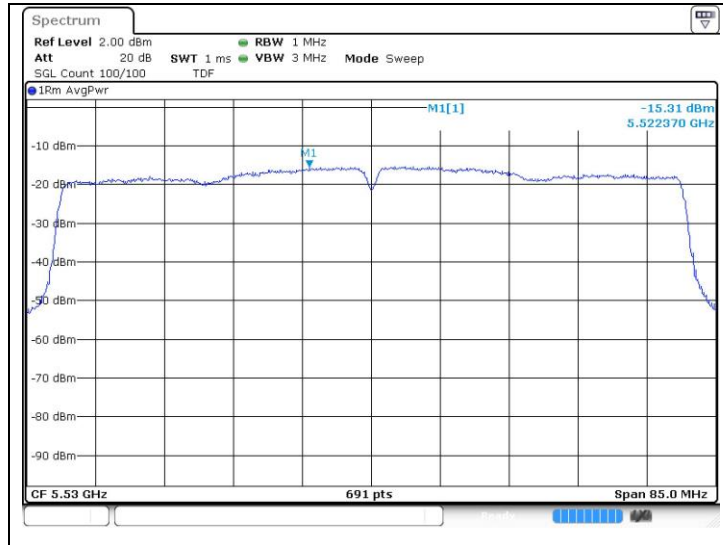
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 MHz)



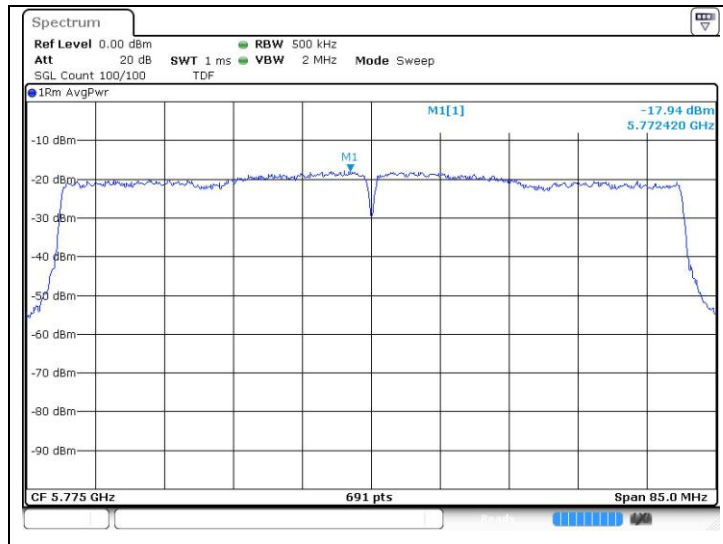
802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 MHz)



802.11ac_VHT80 (Band 3)

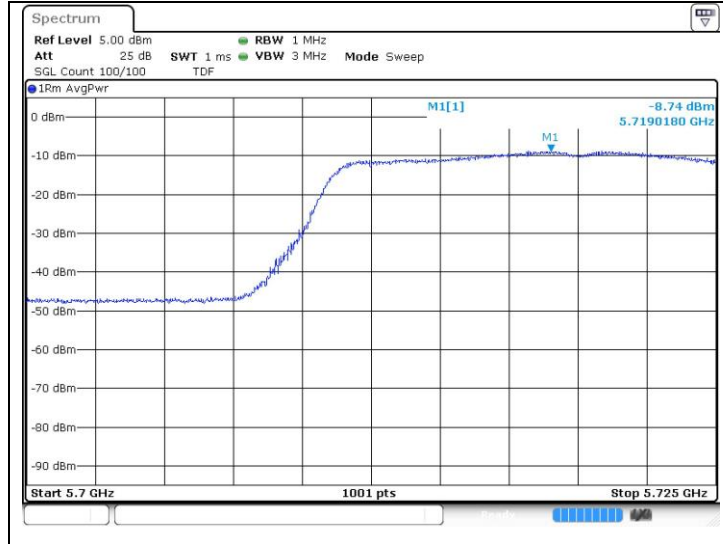
Middle Channel
(5 775 MHz)



Band-crossing channels

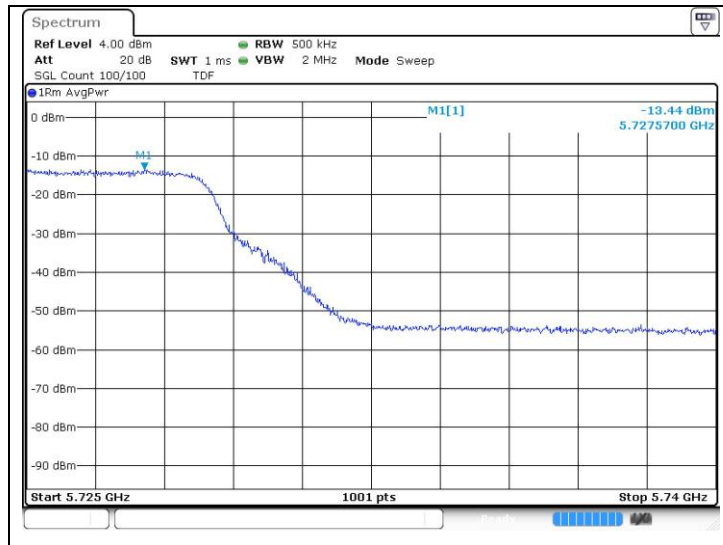
802.11ac_VHT20 (Band 2C)

High Channel
(5 720 MHz)



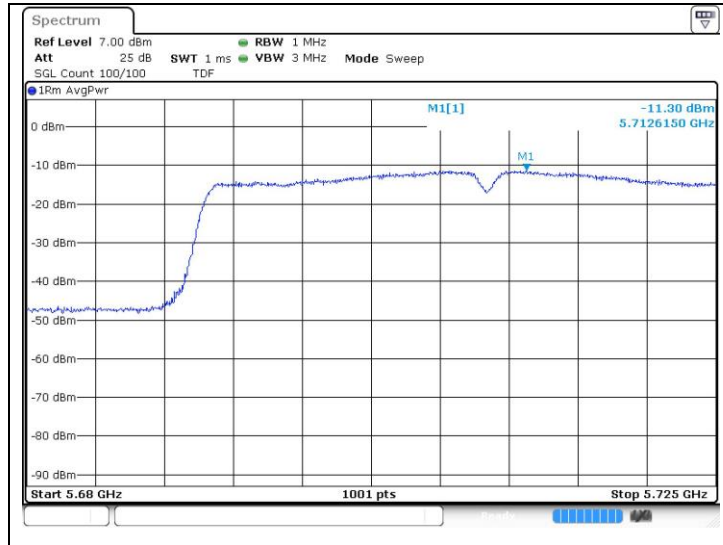
802.11ac_VHT20 (Band 3)

High Channel
(5 720 MHz)



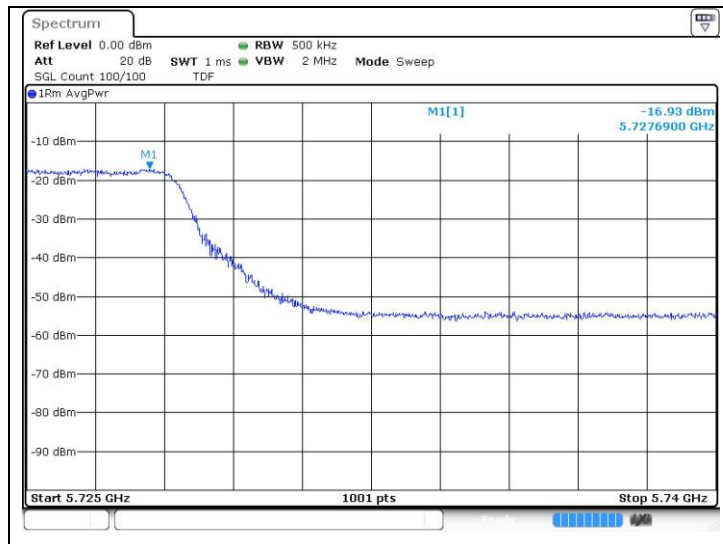
802.11ac_VHT40 (Band 2C)

High Channel
(5 710 MHz)



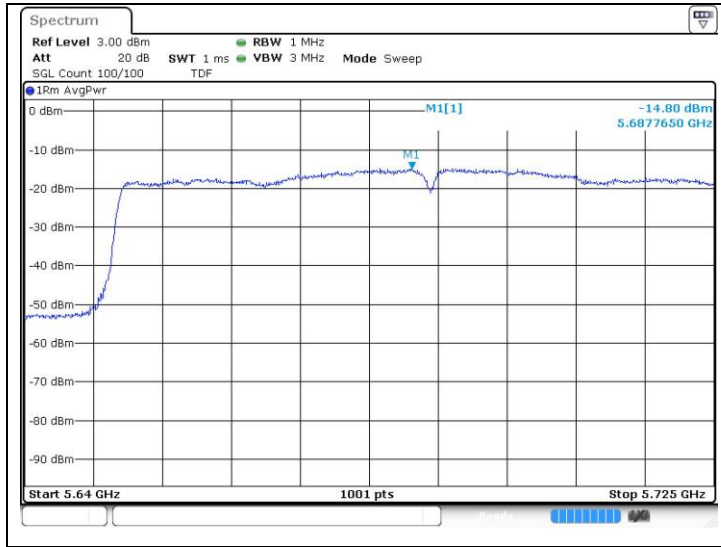
802.11ac_VHT40 (Band 3)

High Channel
(5 710 MHz)



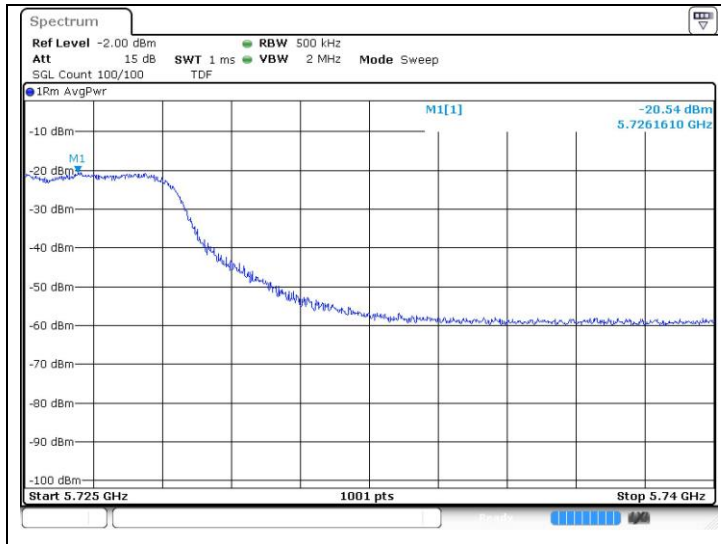
802.11ac_VHT80 (Band 2C)

Middle Channel
 (5 690 MHz)



802.11ac_VHT80 (Band 3)

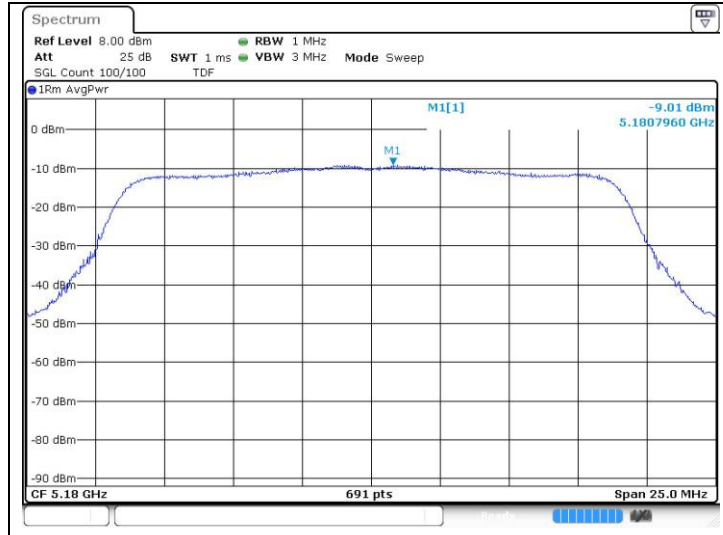
Middle Channel
 (5 690 MHz)



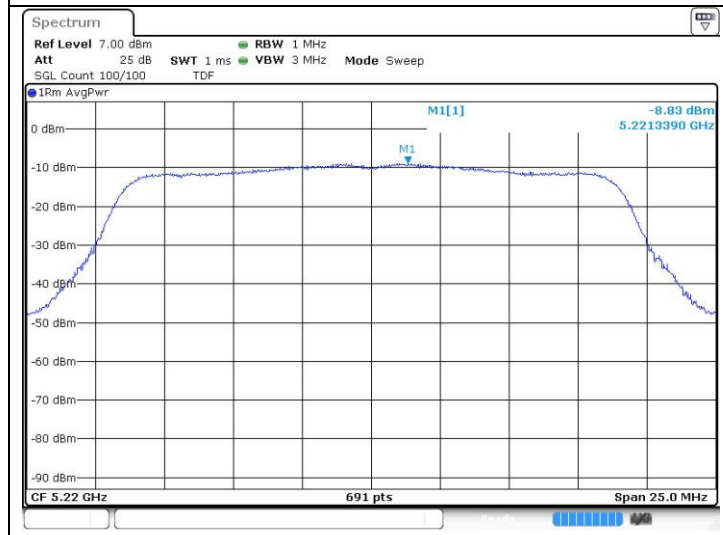
- MIMO_Ant.2

802.11ac_VHT20 (Band 1)

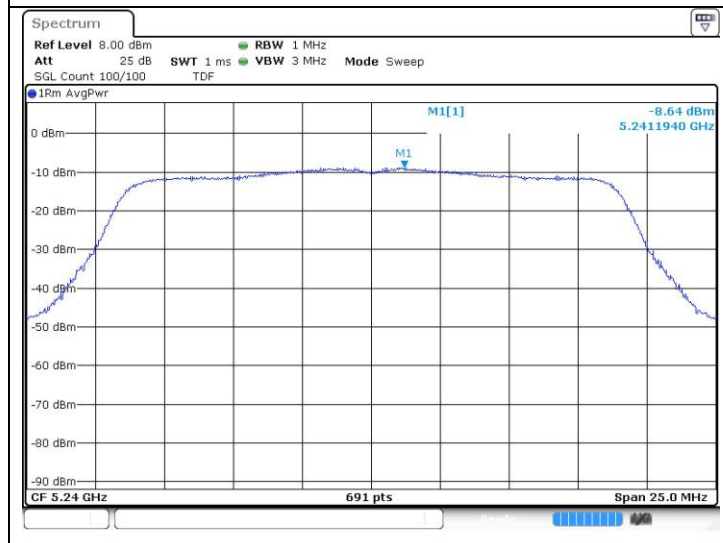
Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

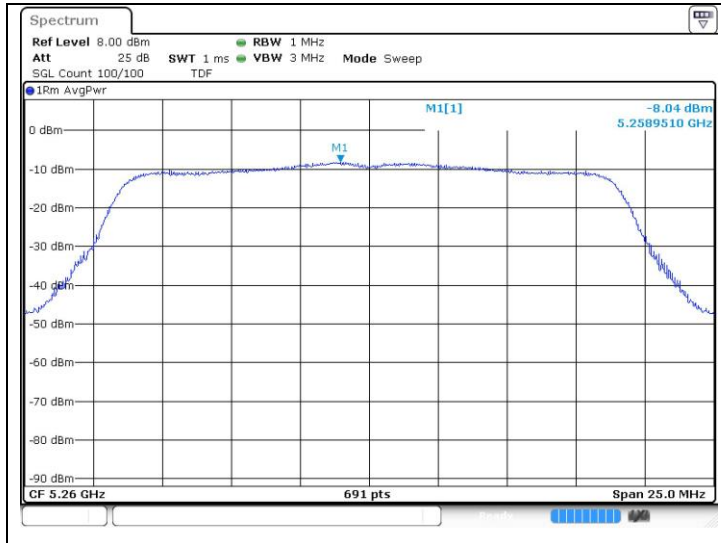


High Channel
(5 240 MHz)

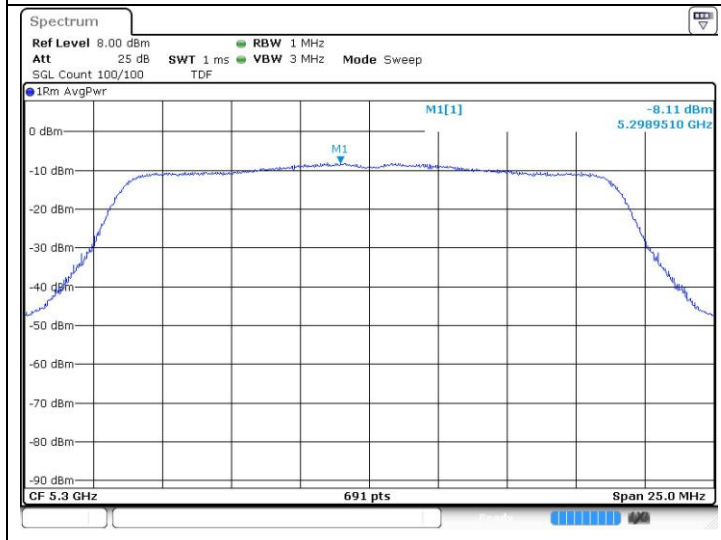


802.11ac_VHT20 (Band 2A)

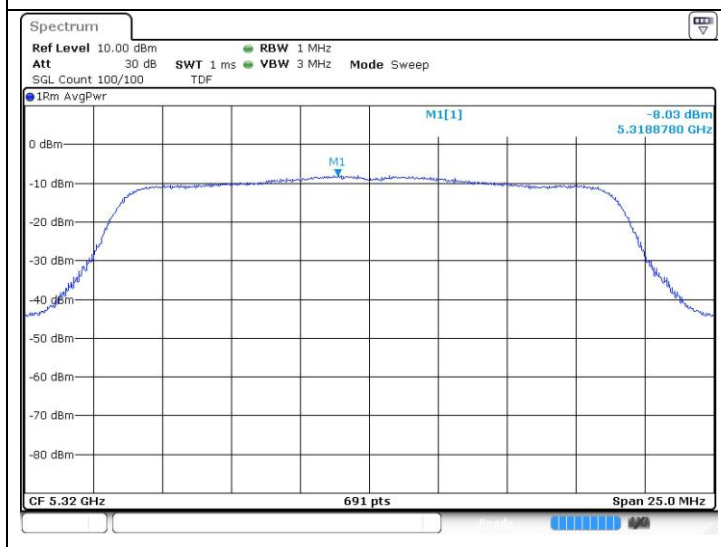
Low Channel
(5 260 MHz)



Middle Channel
(5 300 MHz)

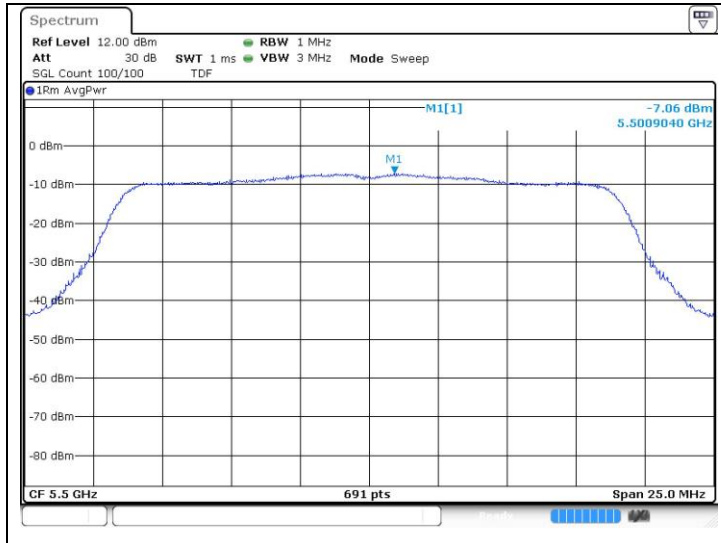


High Channel
(5 320 MHz)

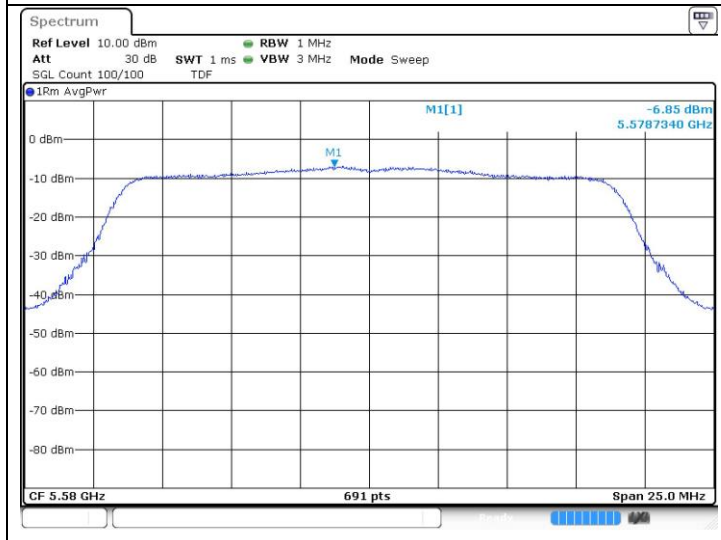


802.11ac_VHT20 (Band 2C)

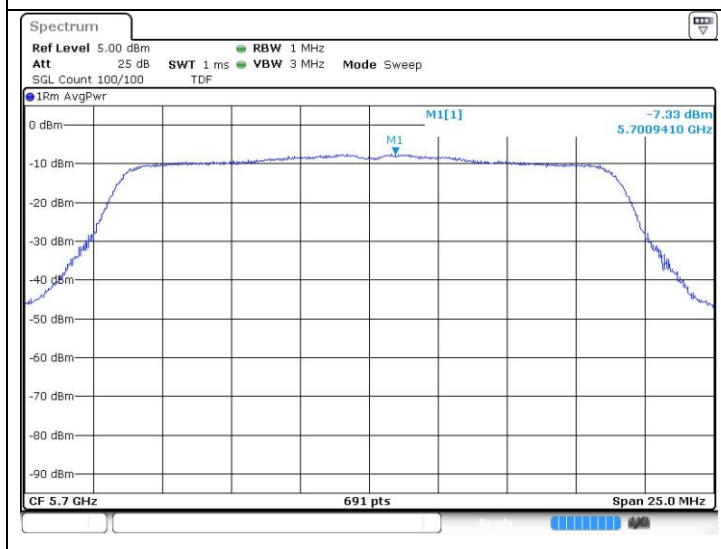
Low Channel
(5 500 MHz)



Middle Channel
(5 580 MHz)

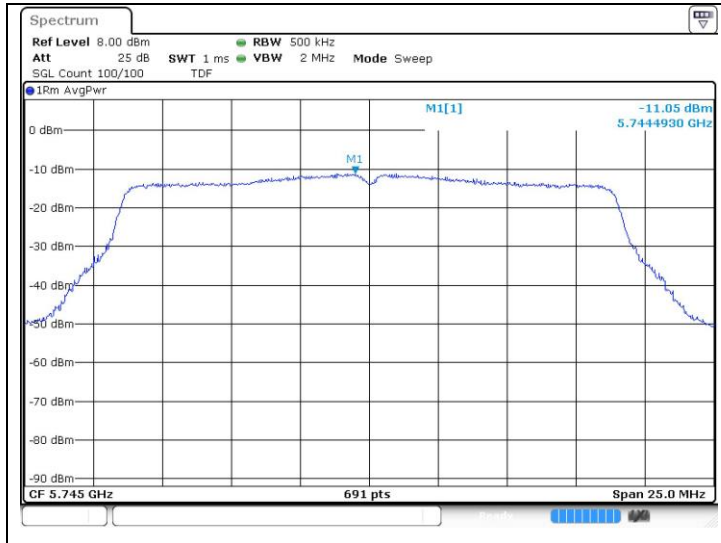


High Channel
(5 700 MHz)

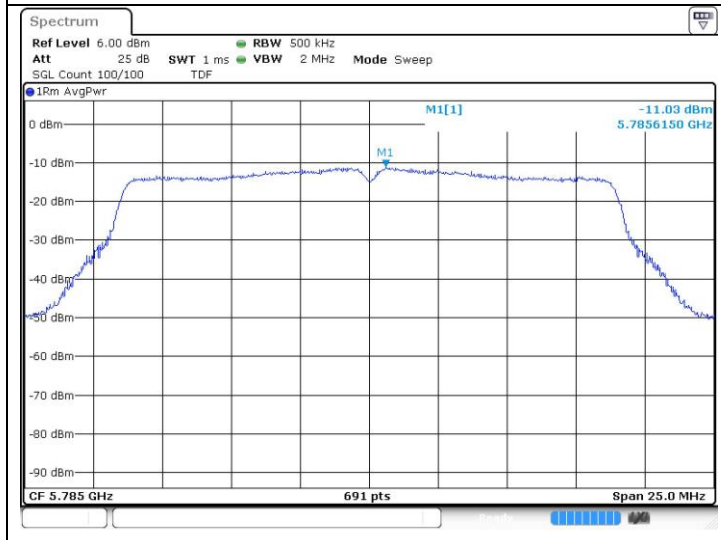


802.11ac_VHT20 (Band 3)

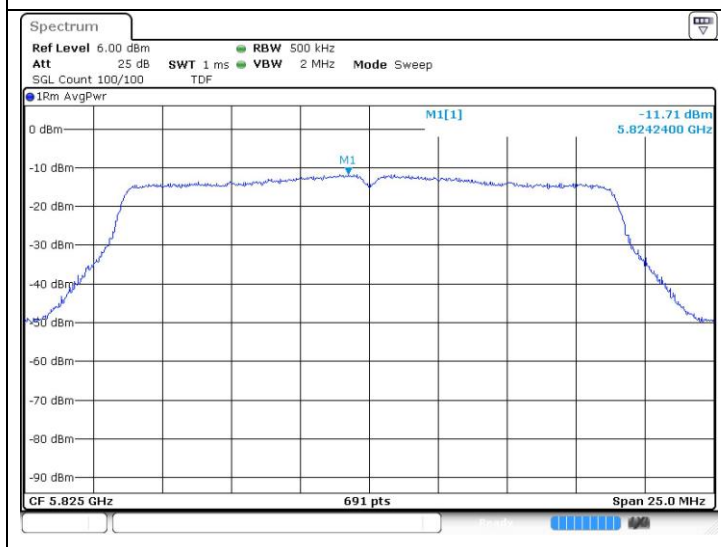
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

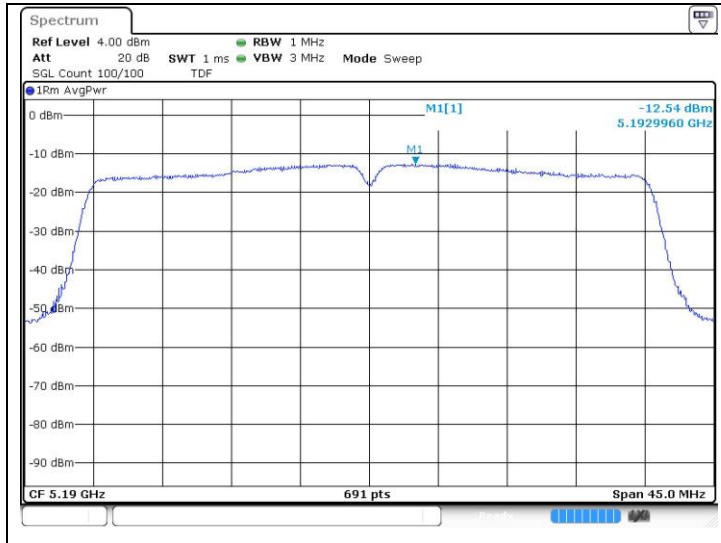


High Channel
(5 825 MHz)

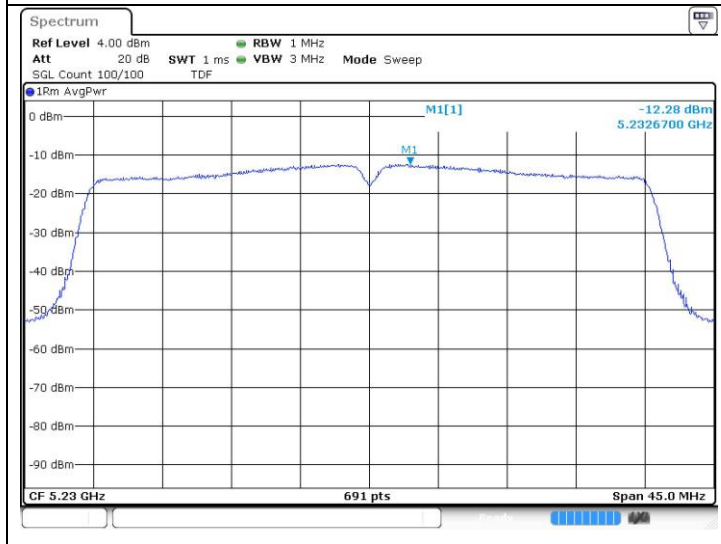


802.11ac_VHT40 (Band 1)

Low Channel
(5 190 MHz)

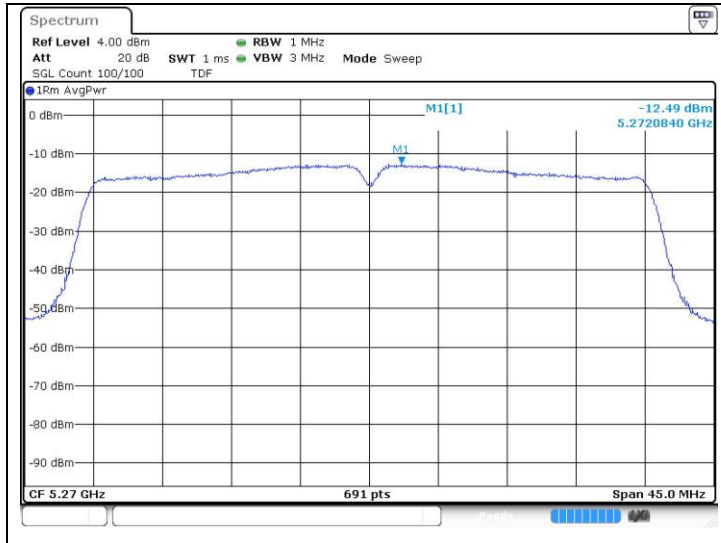


High Channel
(5 230 MHz)

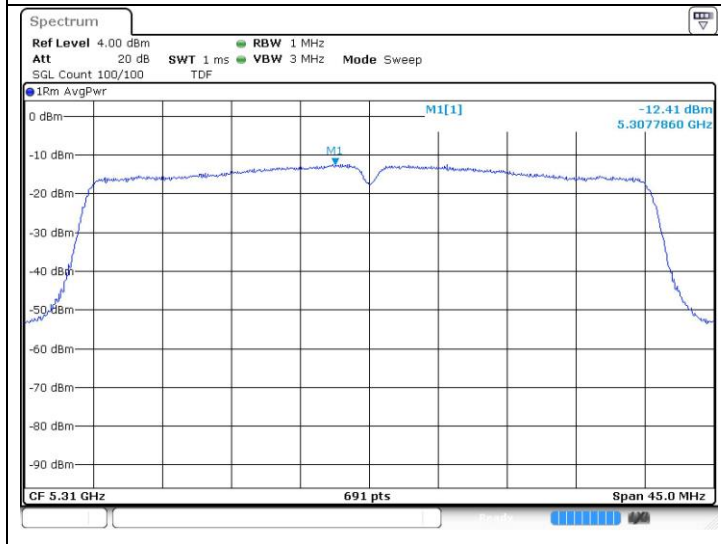


802.11ac_VHT40 (Band 2A)

Low Channel
(5 270 MHz)

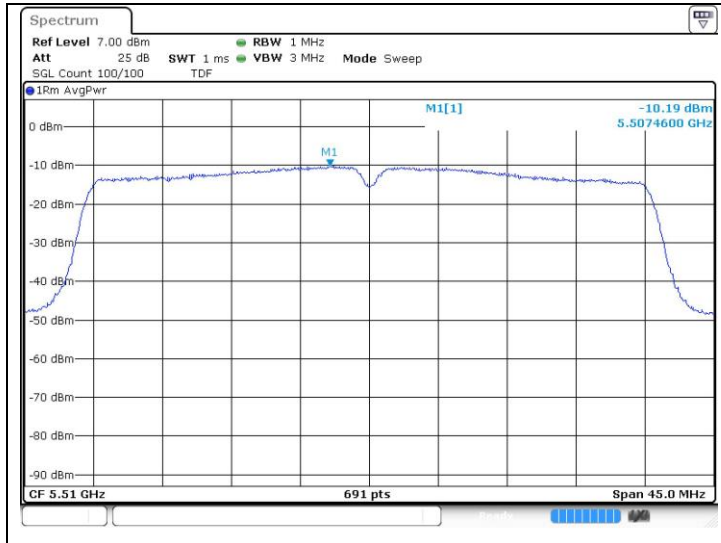


High Channel
(5 310 MHz)

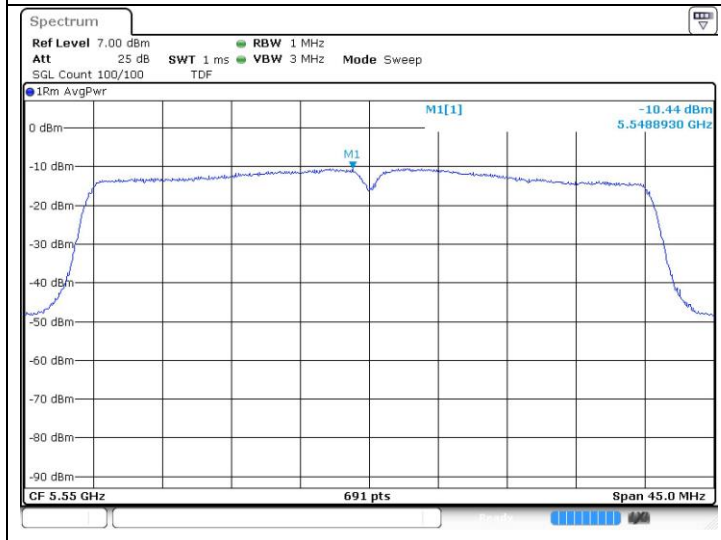


802.11ac_VHT40 (Band 2C)

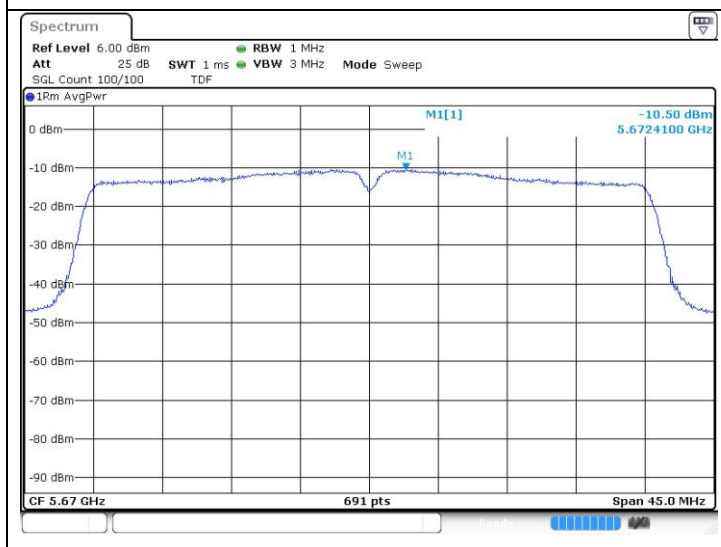
Low Channel
(5 510 MHz)



Middle Channel
(5 550 MHz)

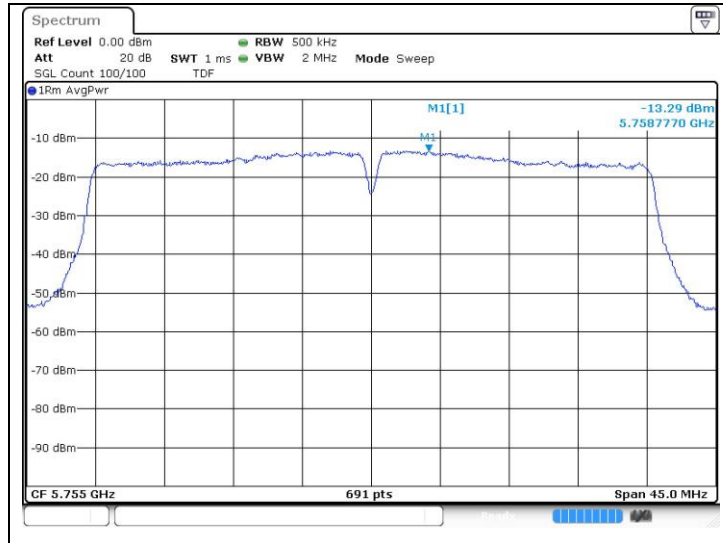


High Channel
(5 670 MHz)

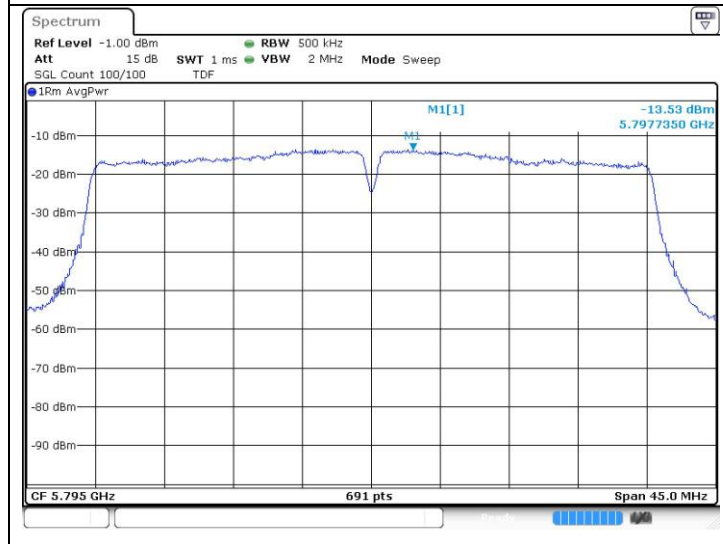


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

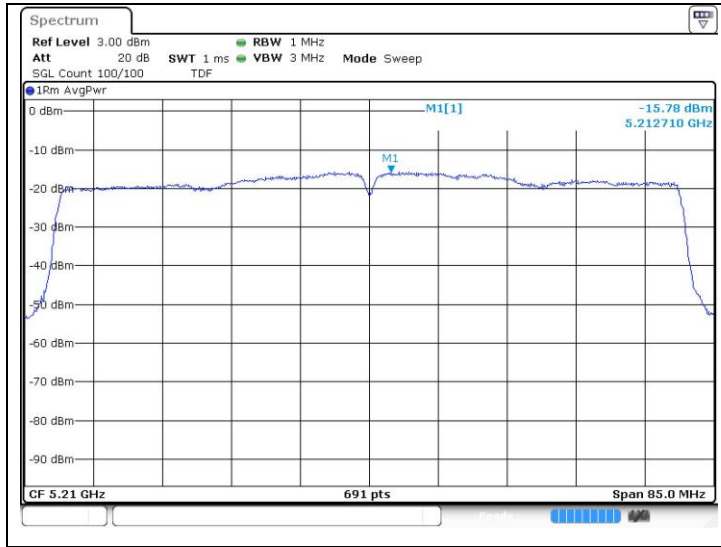


High Channel
(5 795 MHz)



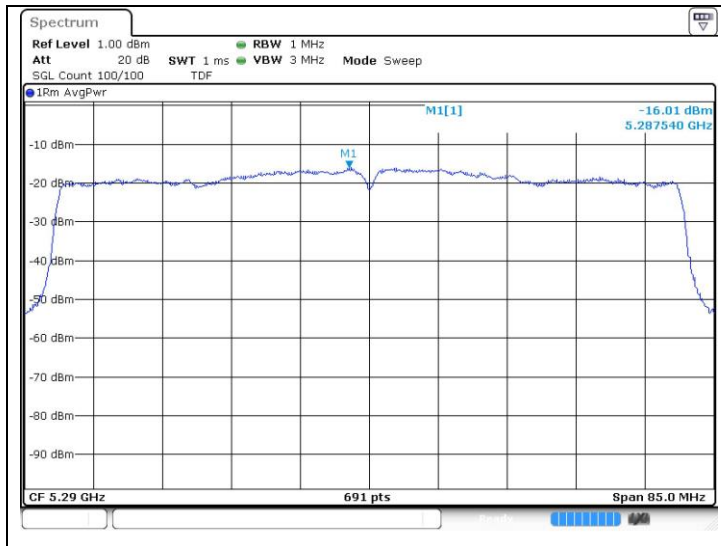
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 MHz)



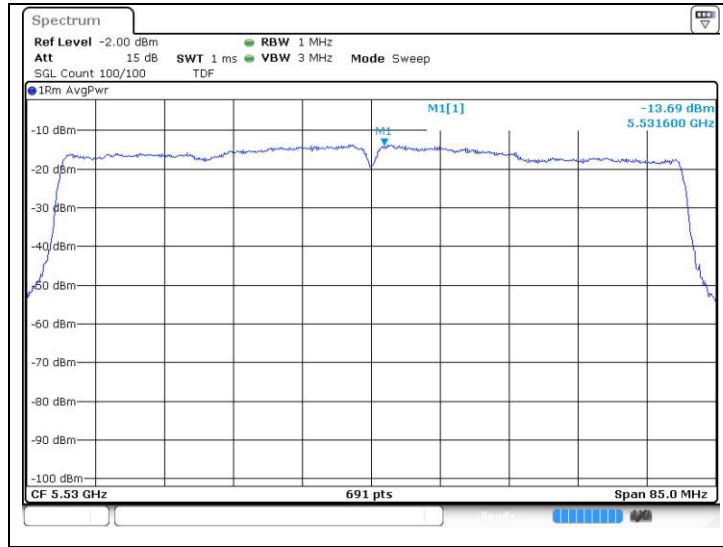
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 MHz)



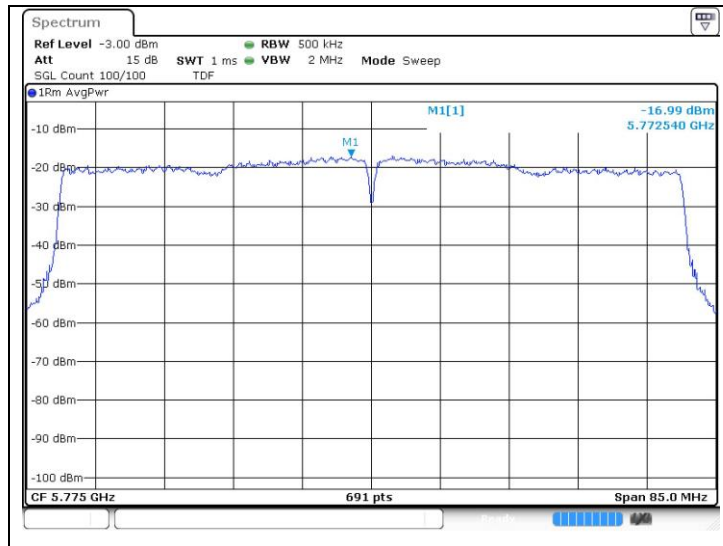
802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 MHz)



802.11ac_VHT80 (Band 3)

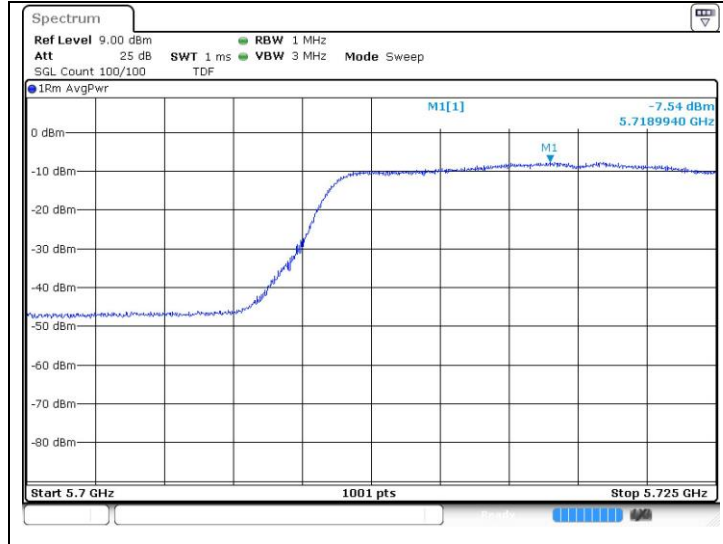
Middle Channel
(5 775 MHz)



Band-crossing channels

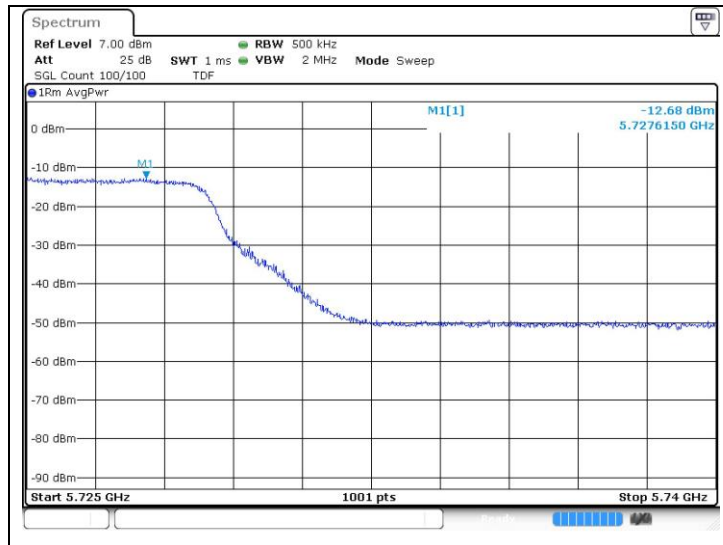
802.11ac_VHT20 (Band 2C)

High Channel
(5 720 MHz)



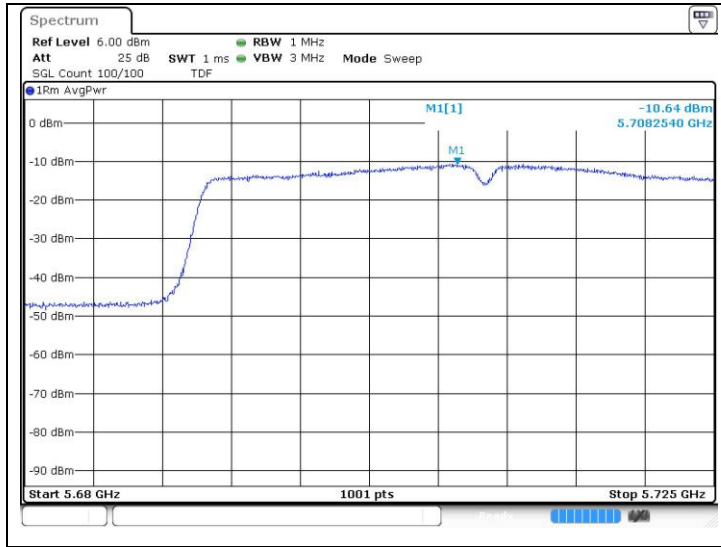
802.11ac_VHT20 (Band 3)

High Channel
(5 720 MHz)



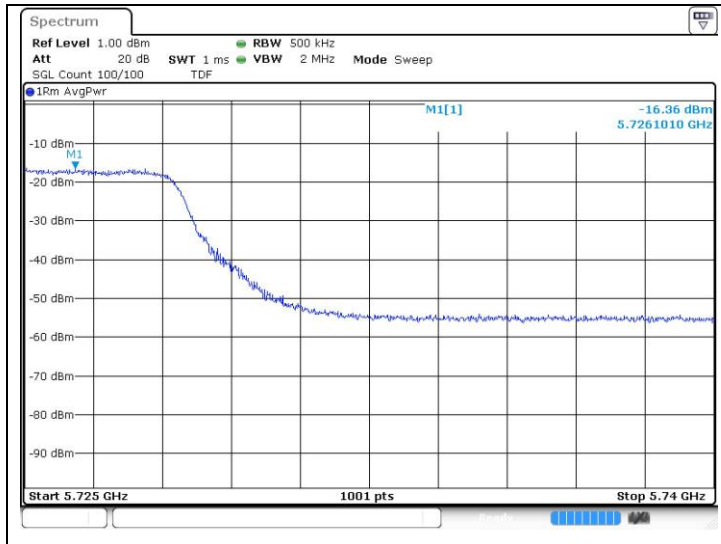
802.11ac_VHT40 (Band 2C)

High Channel
(5 710 MHz)



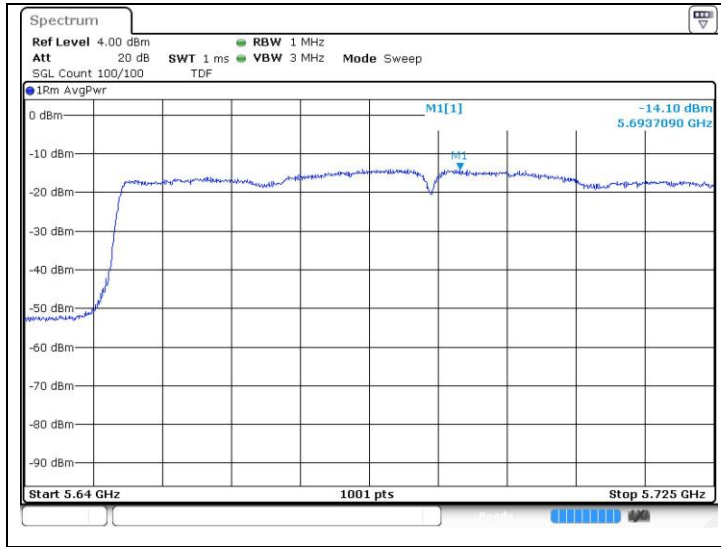
802.11ac_VHT40 (Band 3)

High Channel
(5 710 MHz)



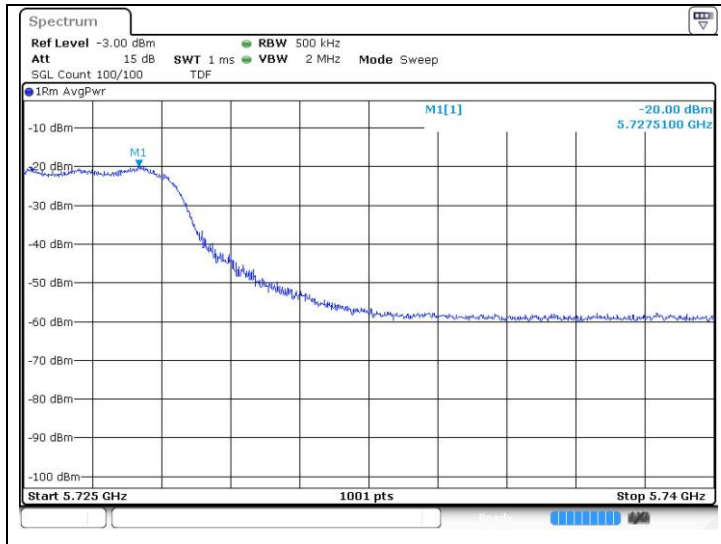
802.11ac_VHT80 (Band 2C)

Middle Channel
(5 690 MHz)



802.11ac_VHT80 (Band 3)

Middle Channel
(5 690 MHz)



7. Antenna Requirement

7.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section and according to FCC 47 CFR Section §15.407(a) if transmitting antennas of directional gain greater than 6 dB i are used, the power shall be reduced by the amount in dB that the gain of the antenna exceeds 6 dB i.

7.2. Antenna Connected Construction

Antenna used in this product is Pattern antenna and peak max gain of antenna as below.

| Band | 5 150 MHz ~ 5 250 MHz | 5 250 MHz ~ 5 350 MHz | 5 470 MHz ~ 5 725 MHz | 5 725 MHz ~ 5 850 MHz |
|------------------|--|-----------------------|-----------------------|-----------------------|
| Mode | 11a/n_HT20, HT40, 11ac_VHT20, VHT40, VHT80 | | | |
| Ant.1 Gain | 2.15 dB i | 2.15 dB i | 2.39 dB i | 2.76 dB i |
| Ant.2 Gain | 0.77 dB i | 1.89 dB i | 2.41 dB i | 2.39 dB i |
| Ant.1+Ant.2 Gain | 4.50 dB i | 5.03 dB i | 5.41 dB i | 5.59 dB i |

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dB i

(i) If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/N_{ANT}]$ dB i [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

- End of the Test Report -