

11ax_HE80_26T (UNII-1)

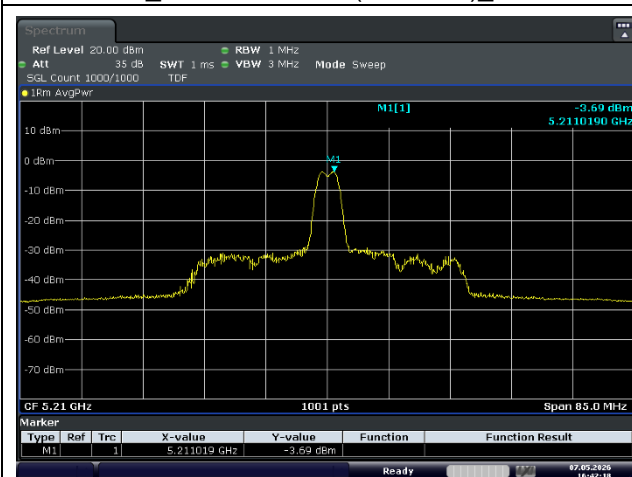
Ant.1_Middle Channel (5 210 MHz)_0 RU



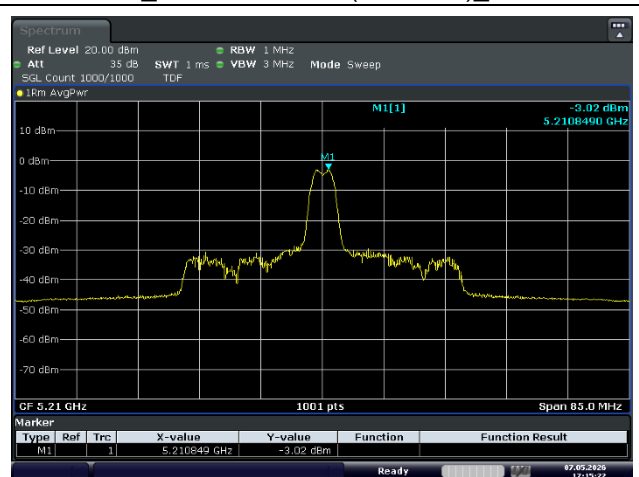
Ant.2_Middle Channel (5 210 MHz)_0 RU



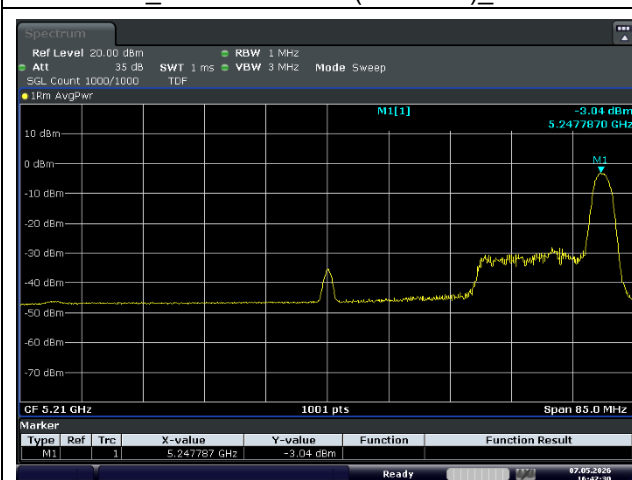
Ant.1_Middle Channel (5 210 MHz)_18 RU



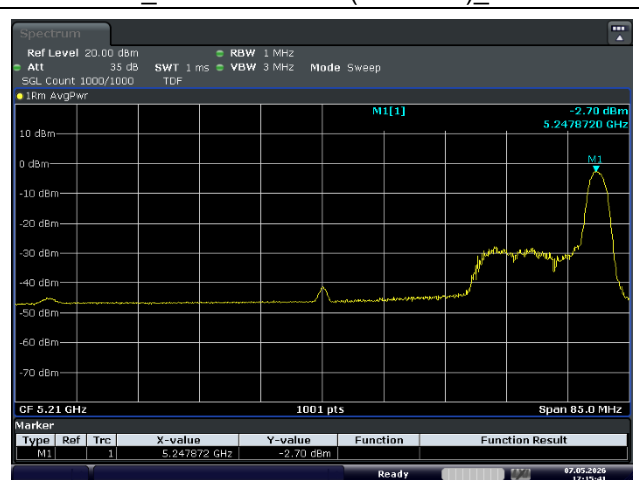
Ant.2_Middle Channel (5 210 MHz)_18 RU



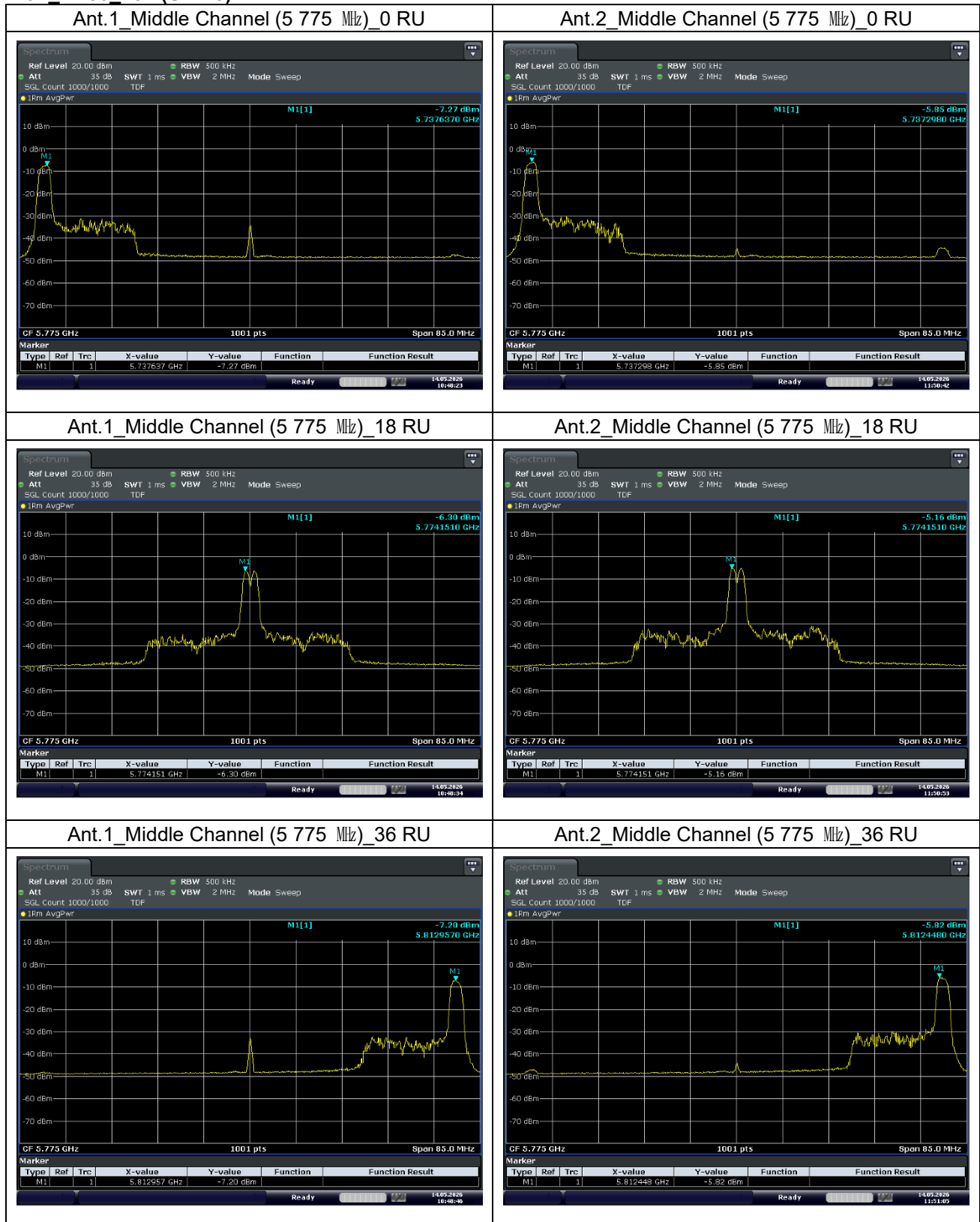
Ant.1_Middle Channel (5 210 MHz)_36 RU



Ant.2_Middle Channel (5 210 MHz)_36 RU



11ax_HE80_26T (UNII-3)



11ax_HE80_52T (UNII-1)

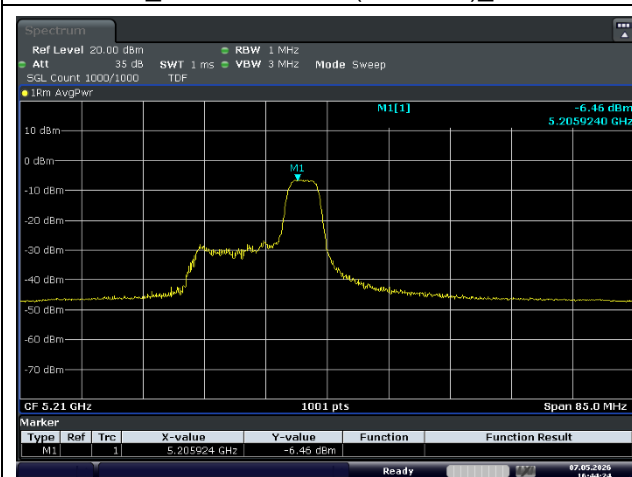
Ant.1_Middle Channel (5 210 MHz)_37 RU



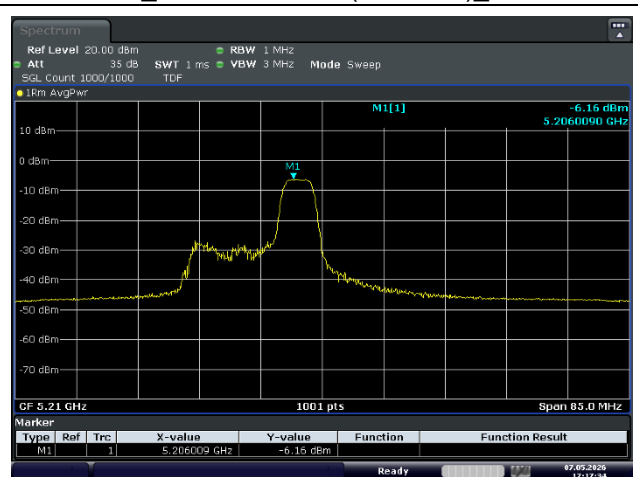
Ant.2_Middle Channel (5 210 MHz)_37 RU



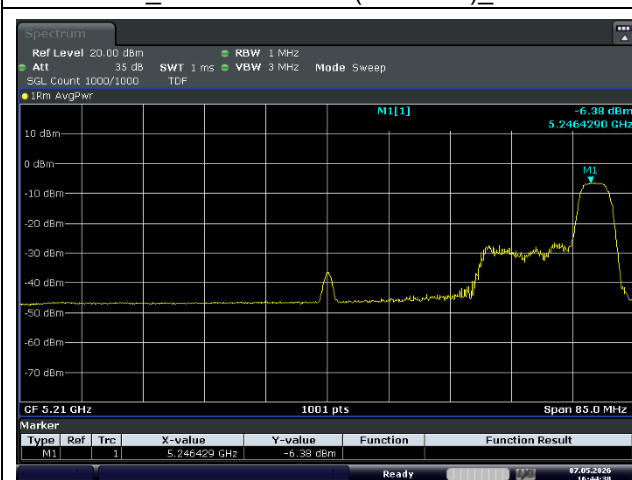
Ant.1_Middle Channel (5 210 MHz)_44 RU



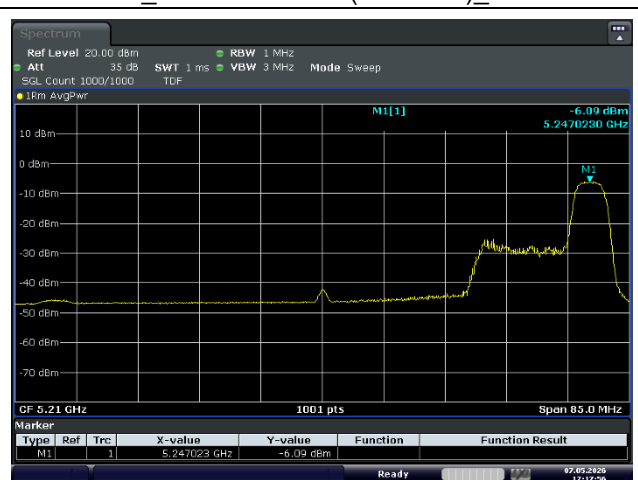
Ant.2_Middle Channel (5 210 MHz)_44 RU



Ant.1_Middle Channel (5 210 MHz)_52 RU

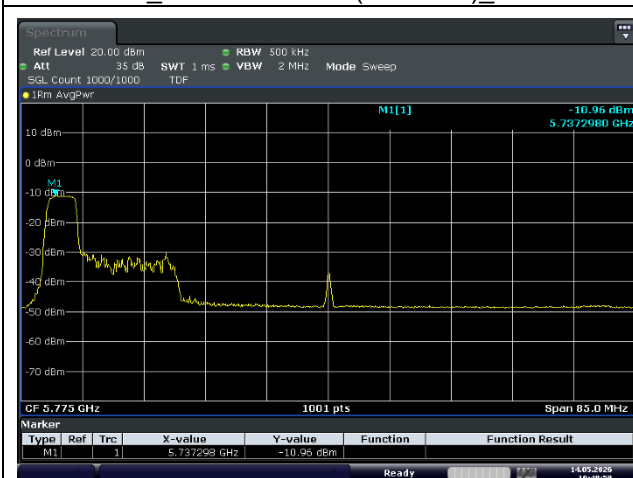


Ant.2_Middle Channel (5 210 MHz)_52 RU

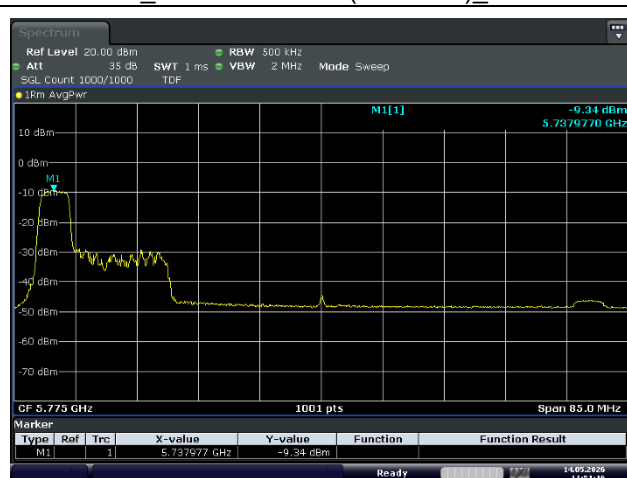


11ax_HE80_52T (UNII-3)

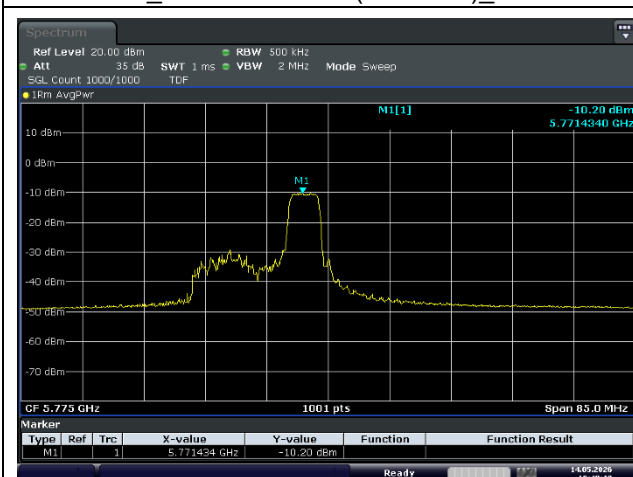
Ant.1_Middle Channel (5 775 MHz)_37 RU



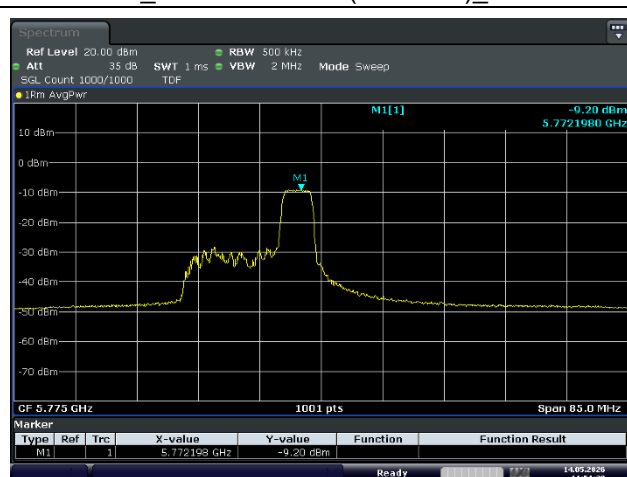
Ant.2_Middle Channel (5 775 MHz)_37 RU



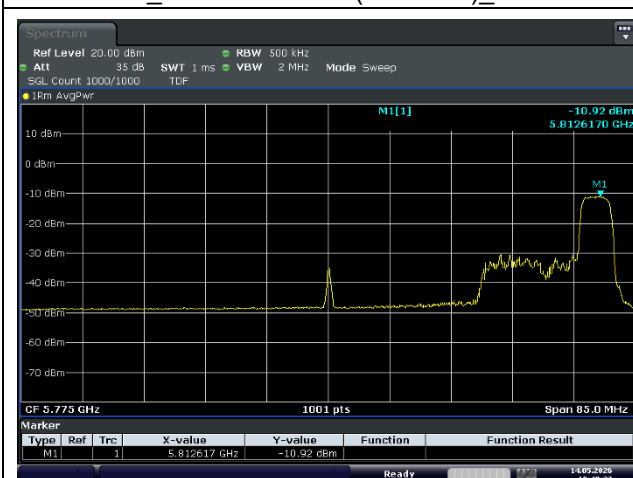
Ant.1_Middle Channel (5 775 MHz)_44 RU



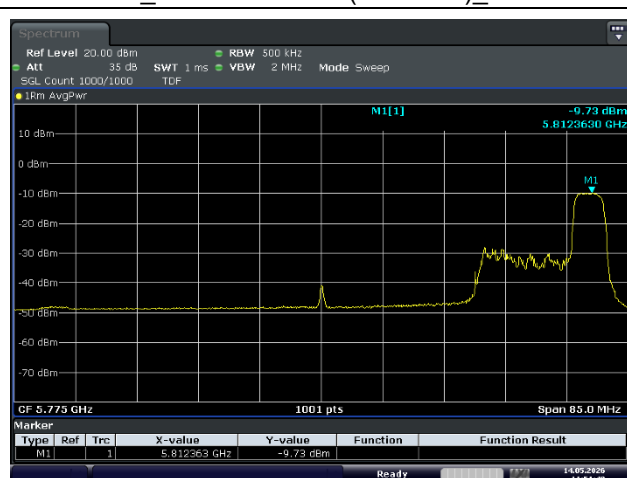
Ant.2_Middle Channel (5 775 MHz)_44 RU



Ant.1_Middle Channel (5 775 MHz)_52 RU

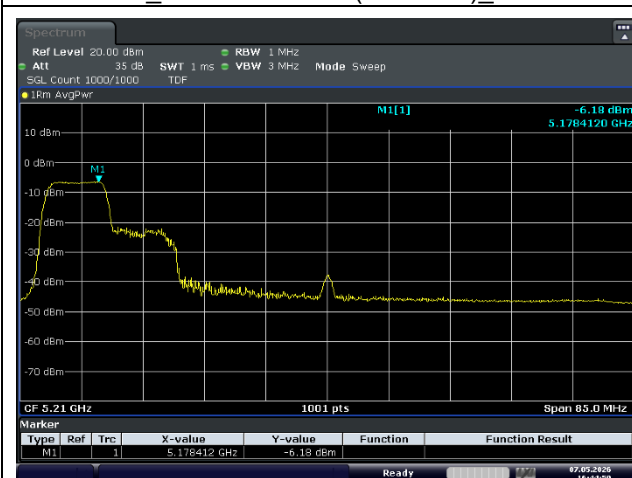


Ant.2_Middle Channel (5 775 MHz)_52 RU

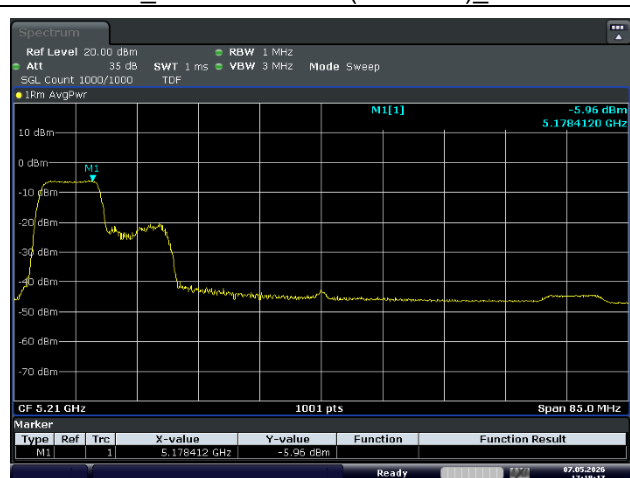


11ax_HE80_106T (UNII-1)

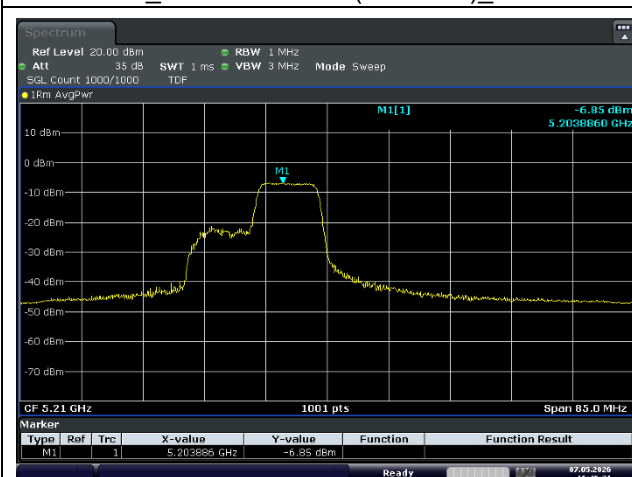
Ant.1_Middle Channel (5 210 MHz)_53 RU



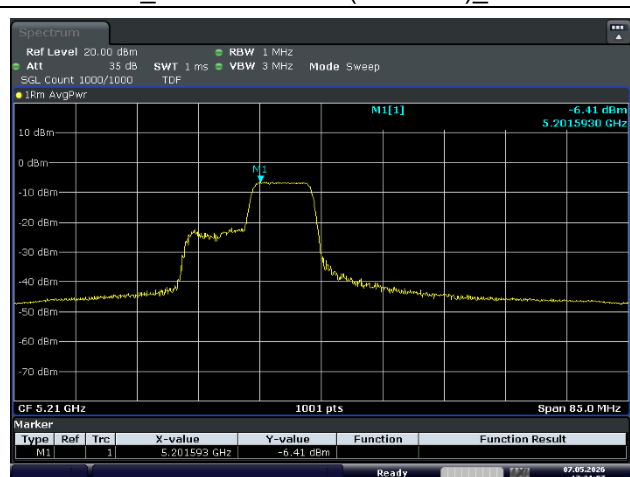
Ant.2_Middle Channel (5 210 MHz)_53 RU



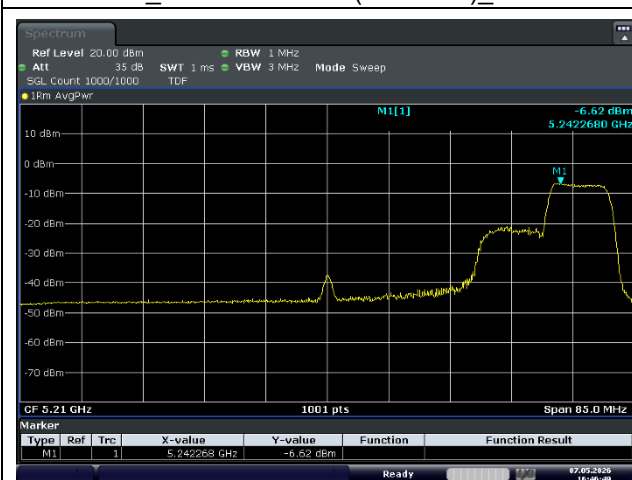
Ant.1_Middle Channel (5 210 MHz)_56 RU



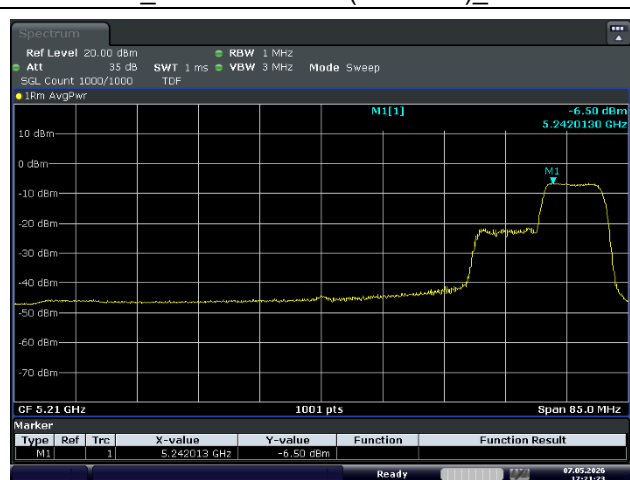
Ant.2_Middle Channel (5 210 MHz)_56 RU



Ant.1_Middle Channel (5 210 MHz)_60 RU



Ant.2_Middle Channel (5 210 MHz)_60 RU

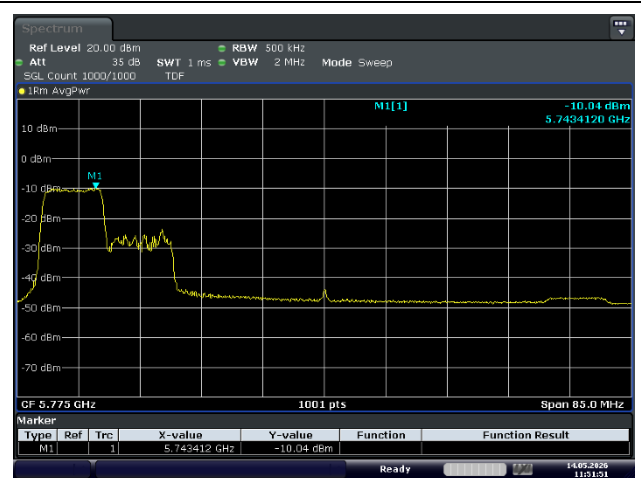


11ax_HE80_106T (UNII-3)

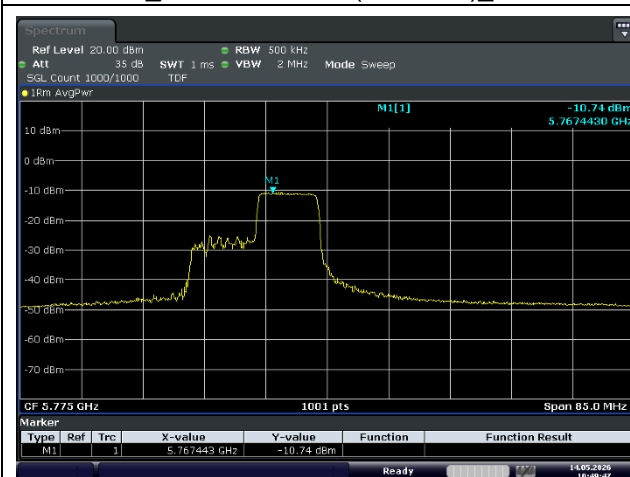
Ant.1_Middle Channel (5 775 MHz)_53 RU



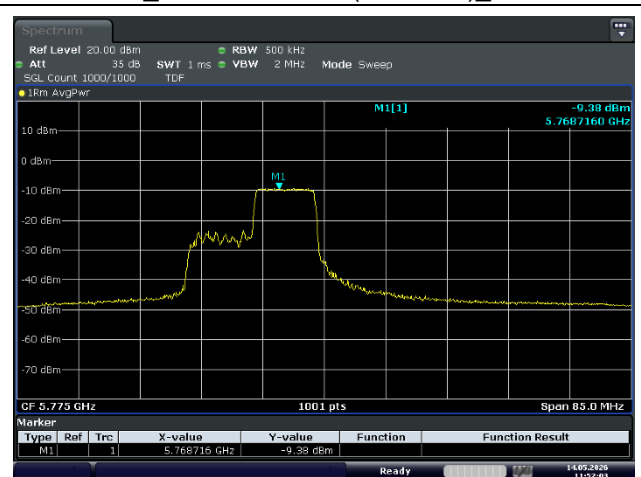
Ant.2_Middle Channel (5 775 MHz)_53 RU



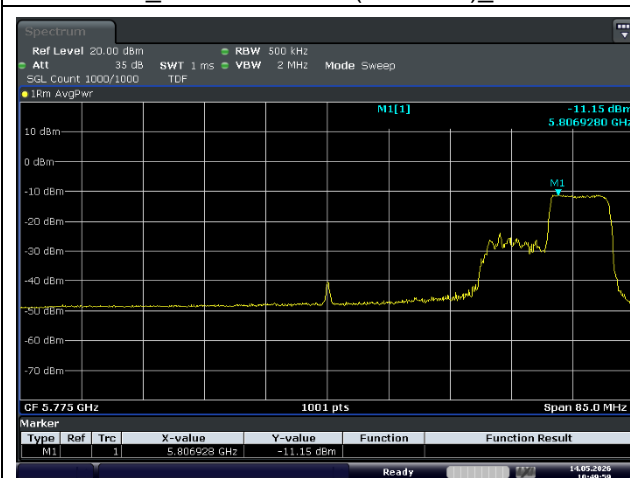
Ant.1_Middle Channel (5 775 MHz)_56 RU



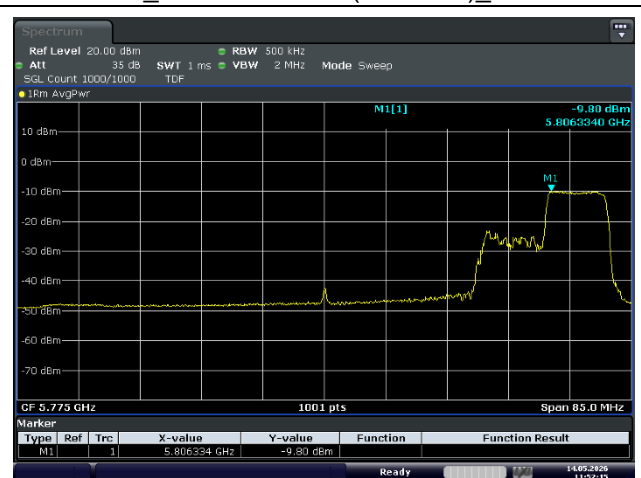
Ant.2_Middle Channel (5 775 MHz)_56 RU



Ant.1_Middle Channel (5 775 MHz)_60 RU

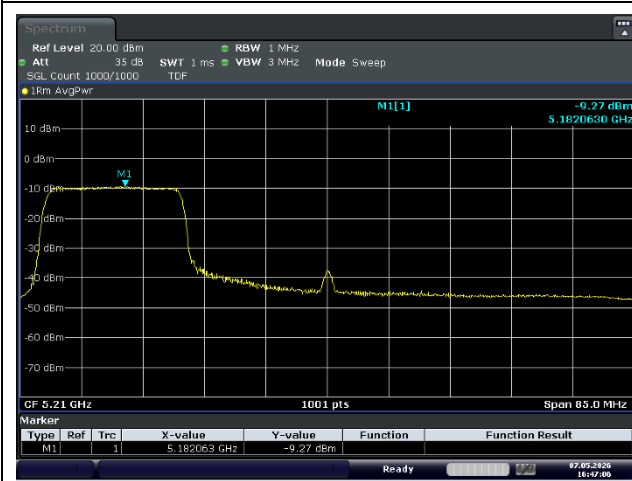


Ant.2_Middle Channel (5 775 MHz)_60 RU

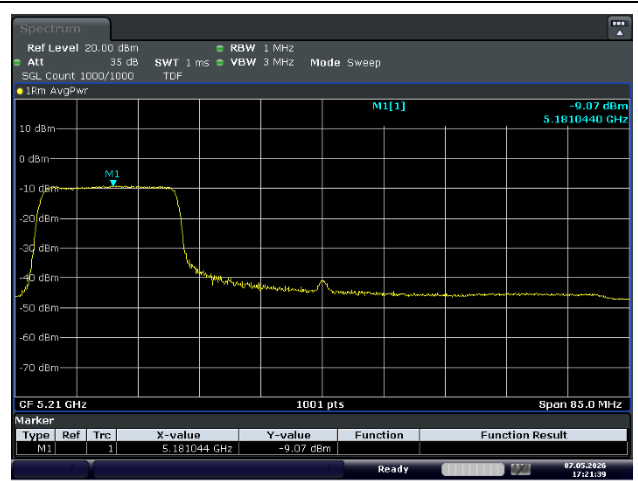


11ax_HE80_242T (UNII-1)

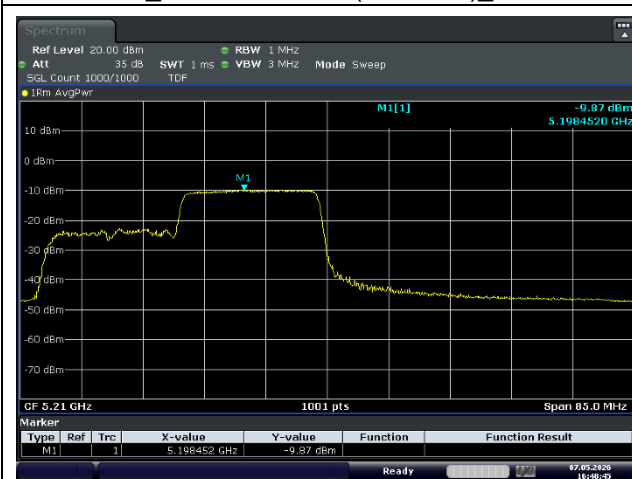
Ant.1_Middle Channel (5 210 MHz)_61 RU



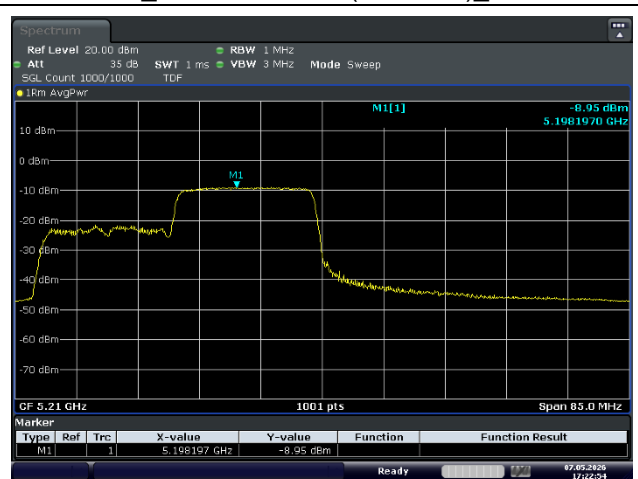
Ant.2_Middle Channel (5 210 MHz)_61 RU



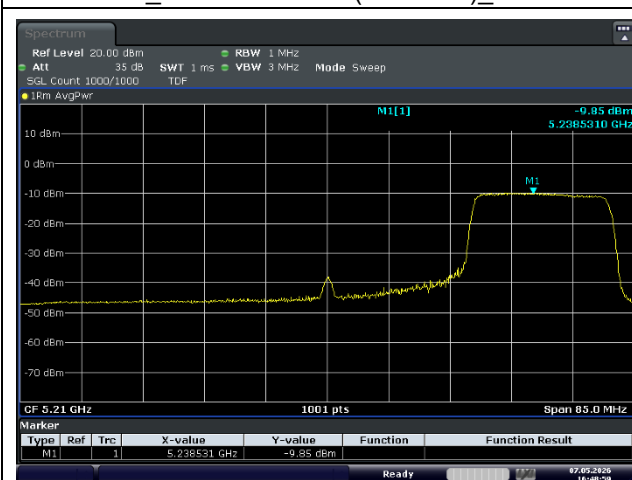
Ant.1_Middle Channel (5 210 MHz)_62 RU



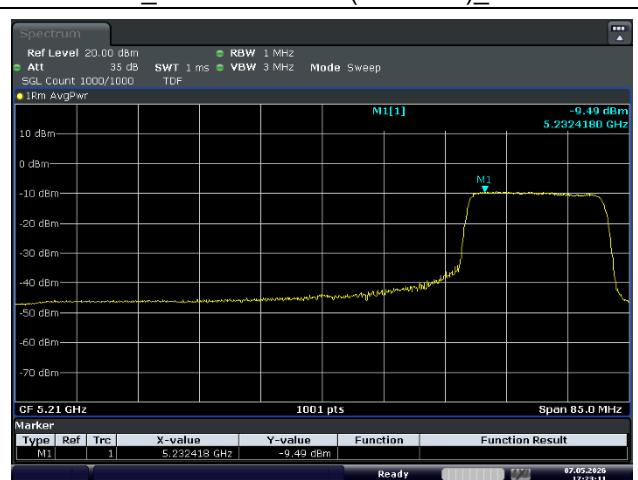
Ant.2_Middle Channel (5 210 MHz)_62 RU



Ant.1_Middle Channel (5 210 MHz)_64 RU

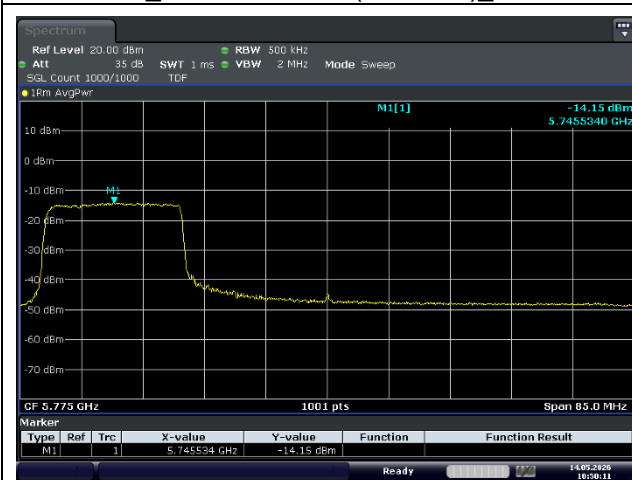


Ant.2_Middle Channel (5 210 MHz)_64 RU

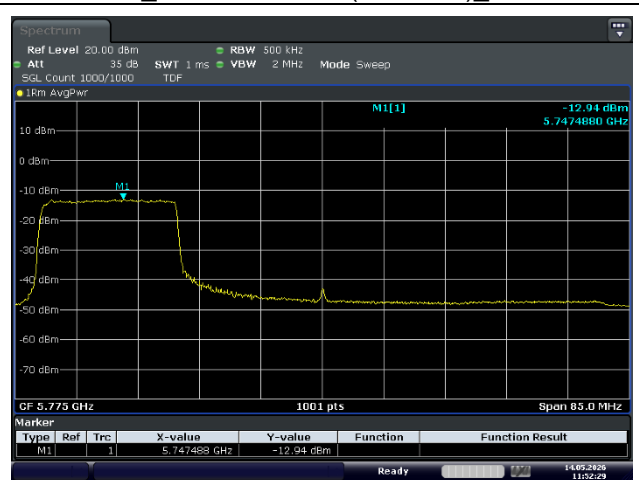


11ax_HE80_242T (UNII-3)

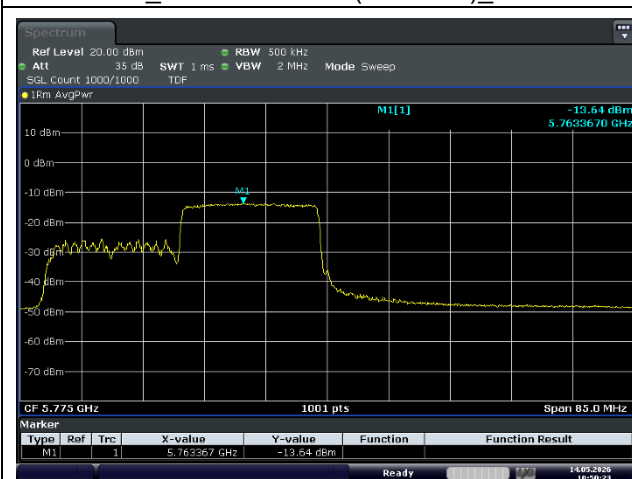
Ant.1_Middle Channel (5 775 MHz)_61 RU



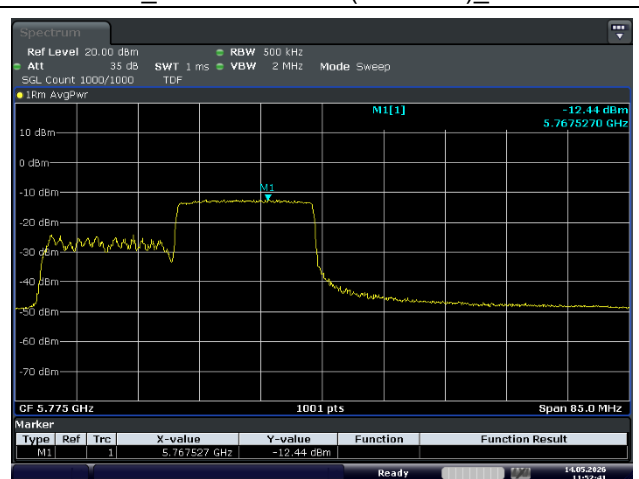
Ant.2_Middle Channel (5 775 MHz)_61 RU



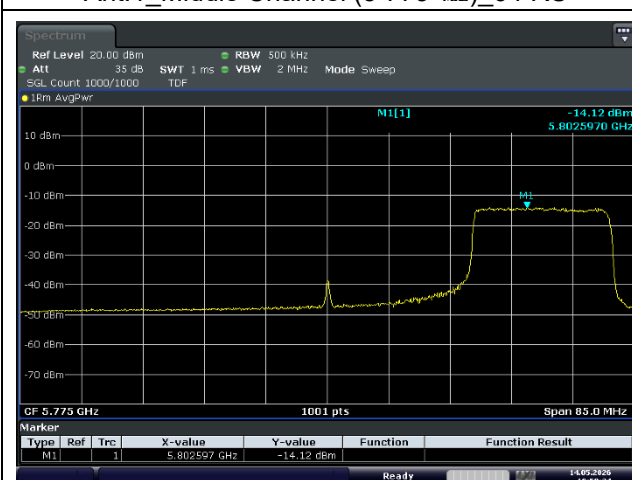
Ant.1_Middle Channel (5 775 MHz)_62 RU



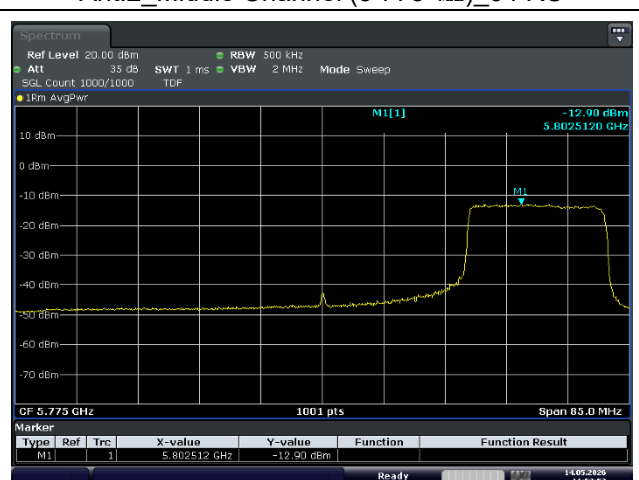
Ant.2_Middle Channel (5 775 MHz)_62 RU



Ant.1_Middle Channel (5 775 MHz)_64 RU

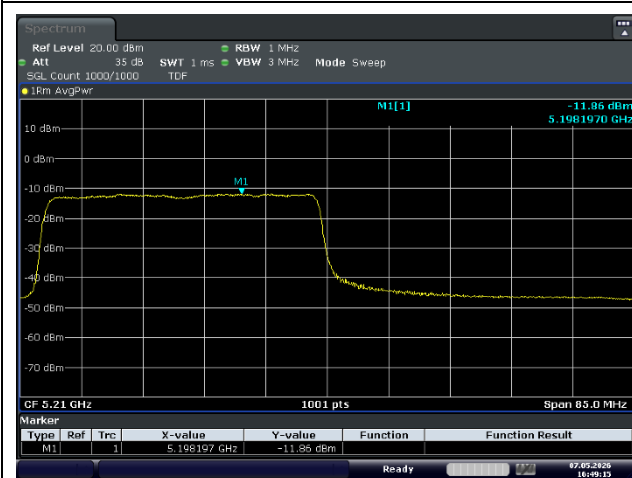


Ant.2_Middle Channel (5 775 MHz)_64 RU

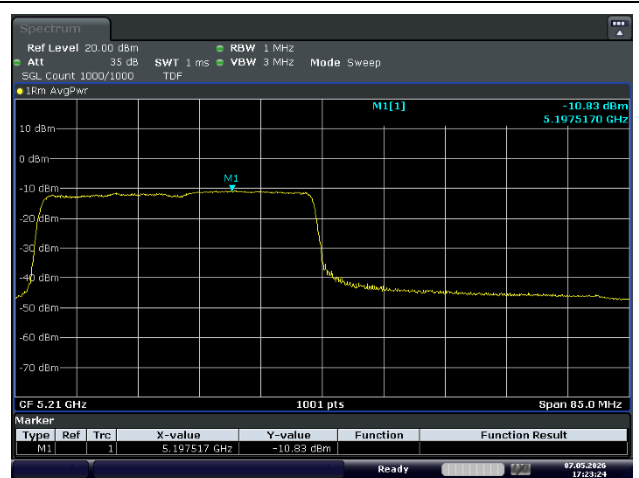


11ax_HE80_484T (UNII-1)

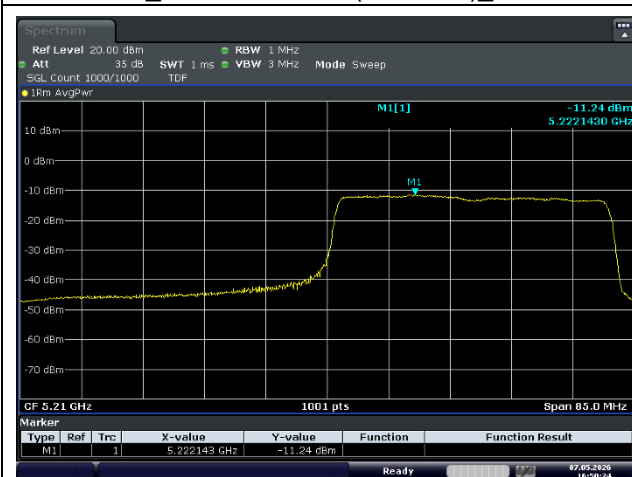
Ant.1_Middle Channel (5 210 MHz)_65 RU



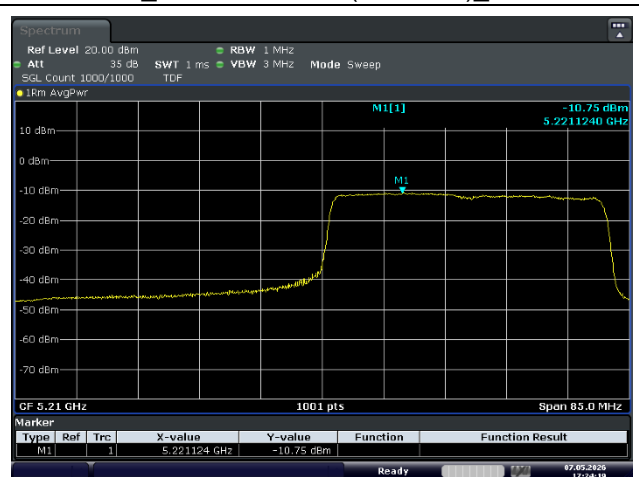
Ant.2_Middle Channel (5 210 MHz)_65 RU



Ant.1_Middle Channel (5 210 MHz)_66 RU

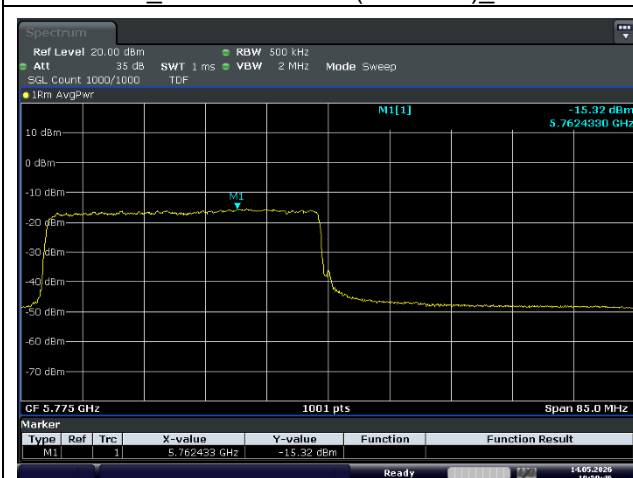


Ant.2_Middle Channel (5 210 MHz)_66 RU

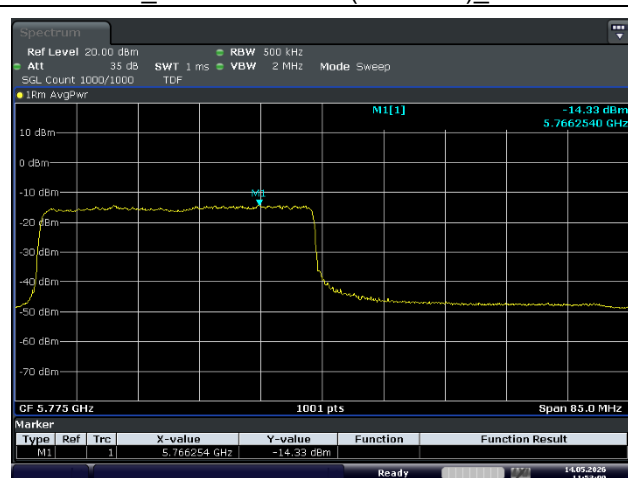


11ax_HE80_484T (UNII-3)

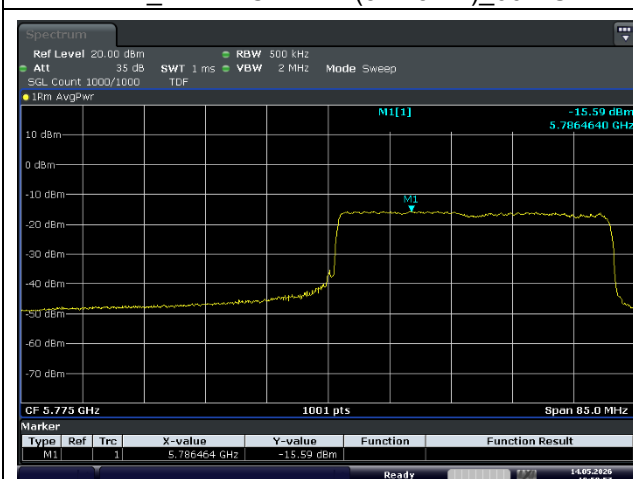
Ant.1_Middle Channel (5 775 MHz)_65 RU



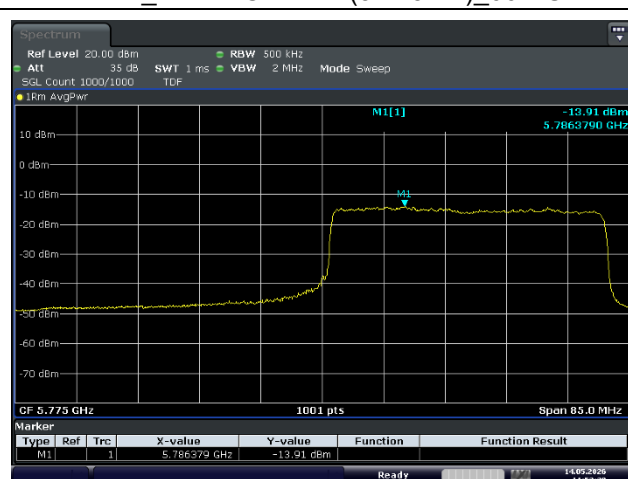
Ant.2_Middle Channel (5 775 MHz)_65 RU



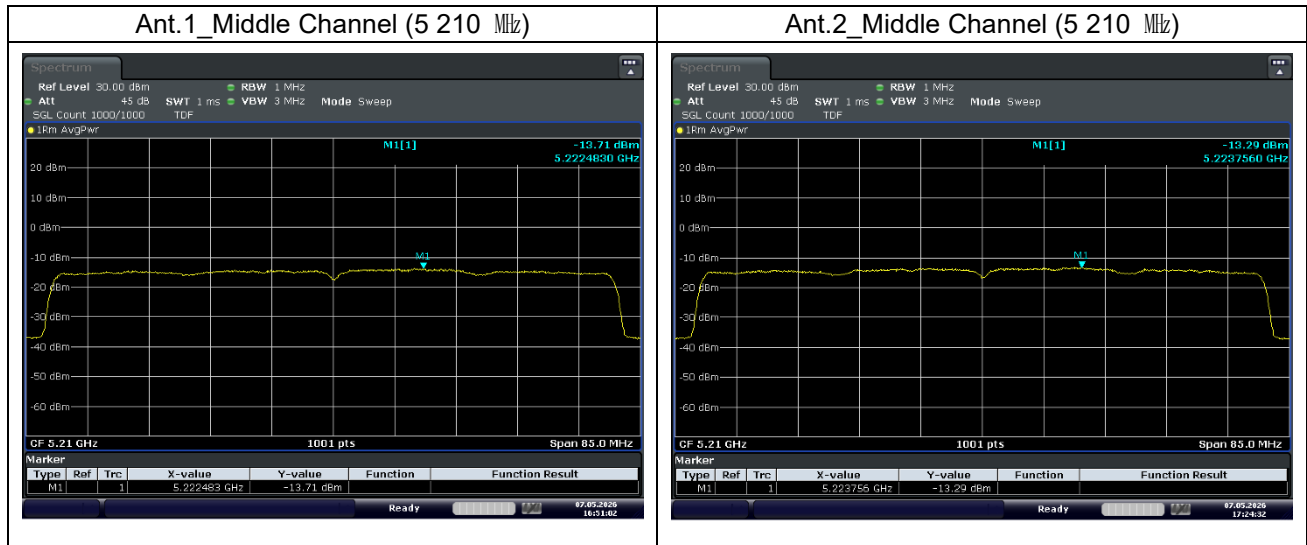
Ant.1_Middle Channel (5 775 MHz)_66 RU



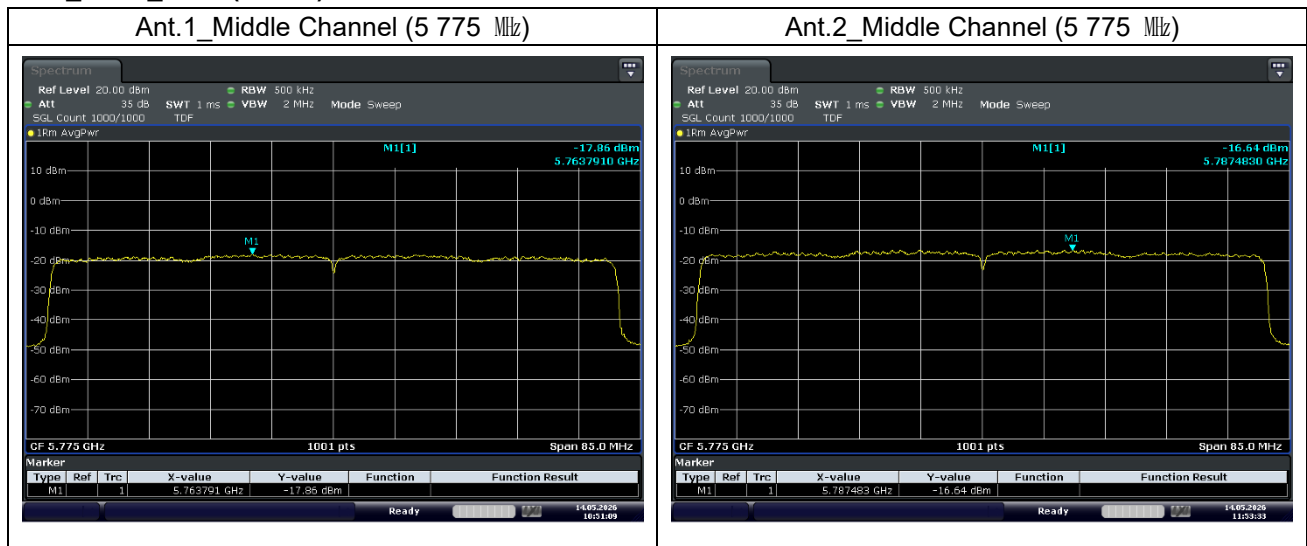
Ant.2_Middle Channel (5 775 MHz)_66 RU



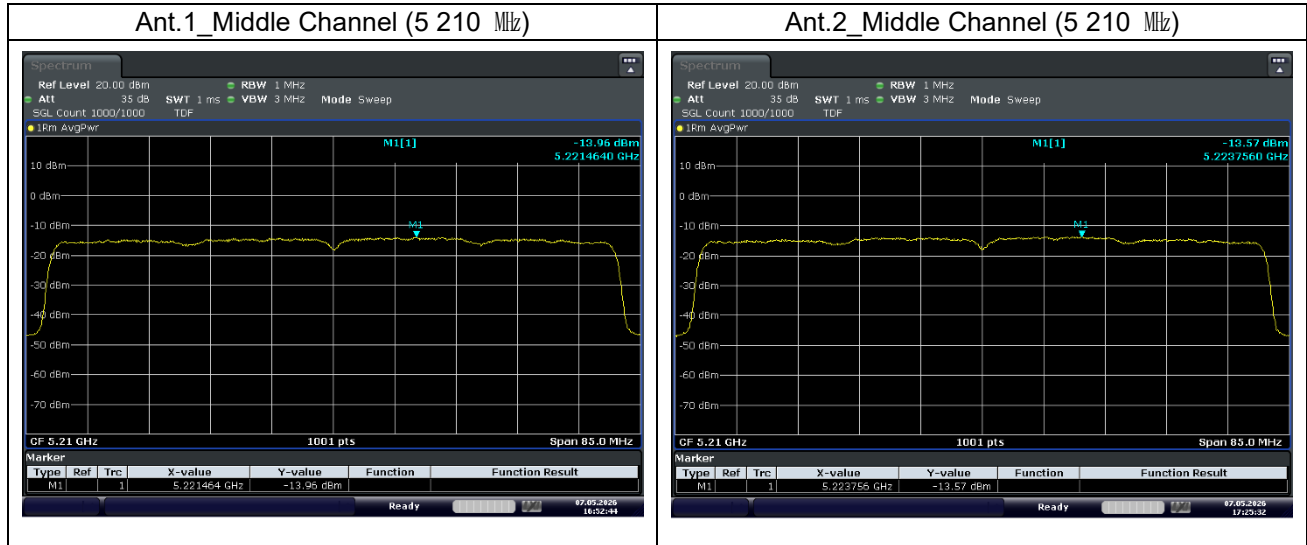
11ax_HE80_996T (UNII-1)



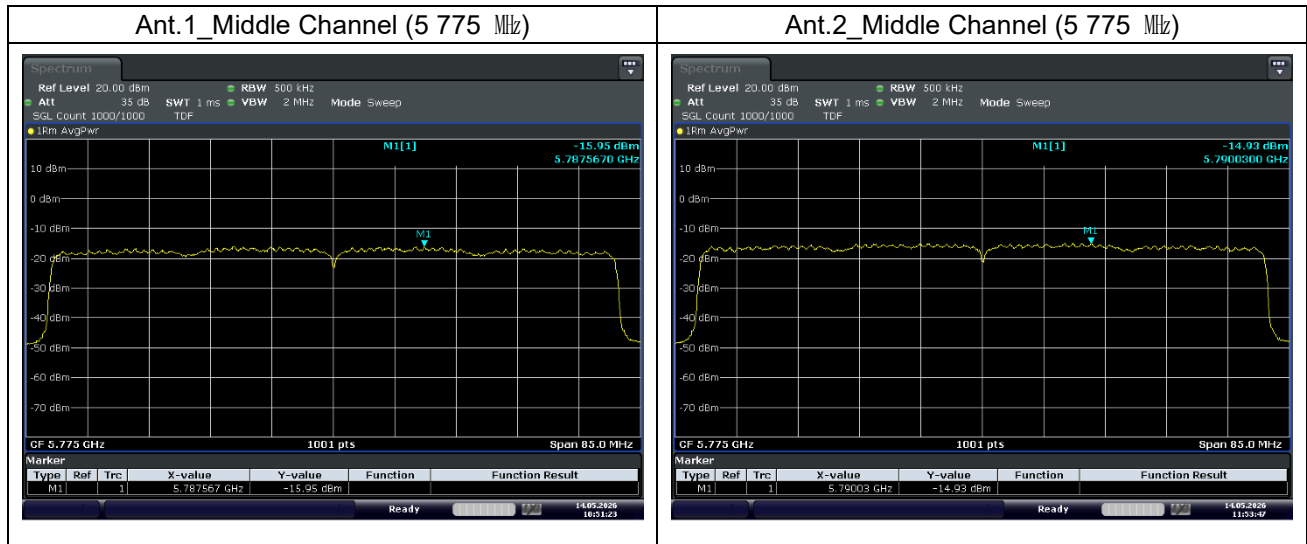
11ax_HE80_996T (UNII-3)



11ax_HE80_SU (UNII-1)



11ax_HE80_SU (UNII-3)



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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. And according to FCC 47 CFR Section §15.407(a) If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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	5 725 MHz ~ 5 850 MHz
Mode		11a/n_HT20, HT40, 11ac_VHT20, VHT40, VHT80, 11ax_HE20 , HE40, HE80	
Ant. 1 Gain (dB i)		2.80	0.40
Ant. 2 Gain (dB i)		2.00	3.70
Ant. 3 Gain (dB i)		3.90	2.00
Directional Gain (dB i)	Ant. 1 + Ant. 2	5.42	5.22

According to KDB 662911, unequal antenna gains with equal transmit powers.

a) If transmit signals are correlated, then

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}] \text{ dB i}$$

Note that the purpose of the factor 20 in the denominator of each exponent and the square of the sum of terms is to combine the signal levels coherently.

- End of the Test Report -