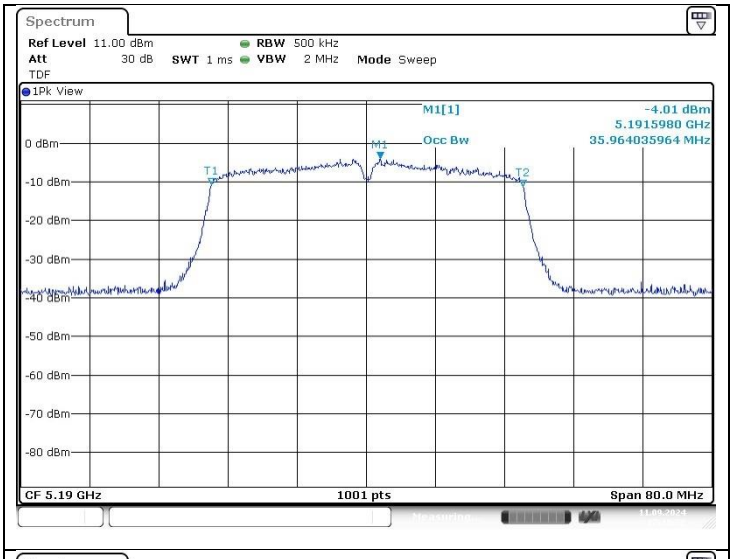
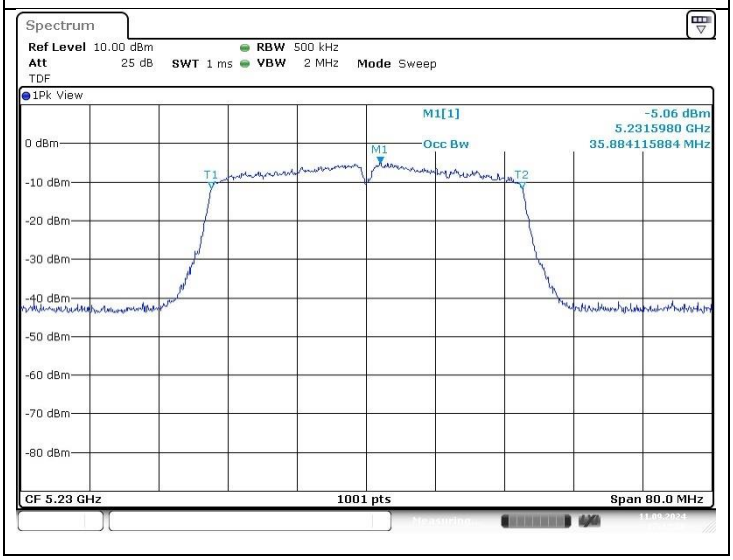
11n_HT40 (Band 1)

Low Channel
(5 190 ㎒)

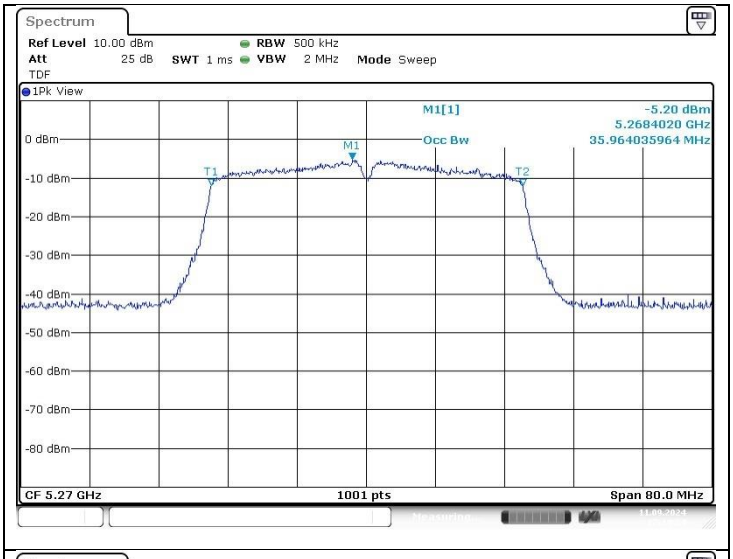


High Channel
(5 230 ㎒)

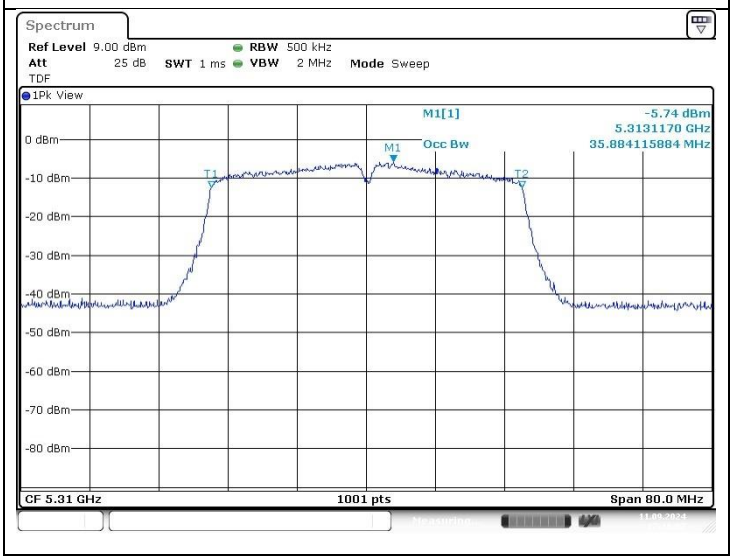


11n_HT40 (Band 2A)

Low Channel
(5 270 ㎒)

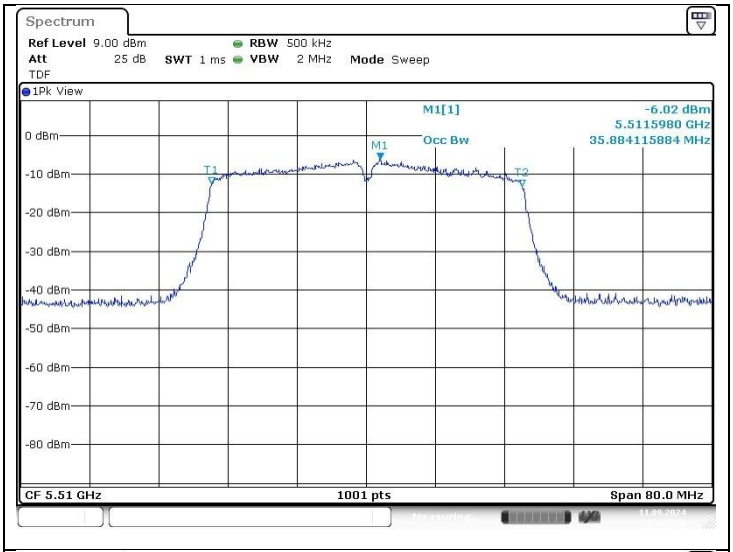


High Channel
(5 310 ㎒)

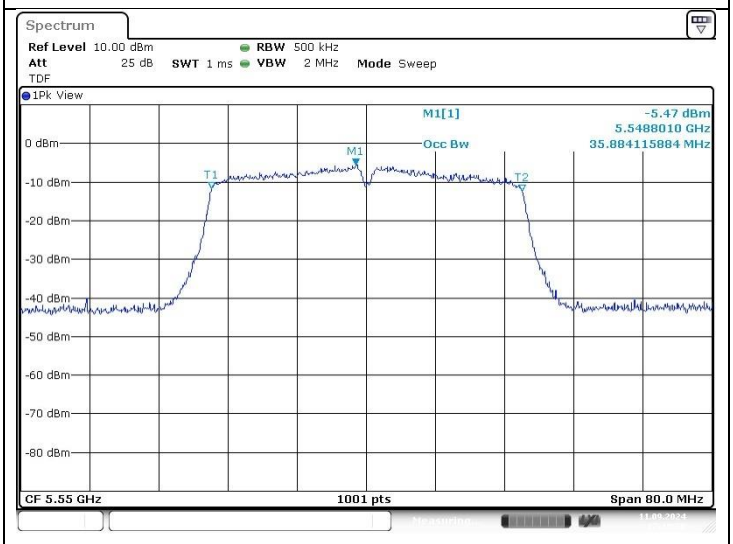


11n_HT40 (Band 2C)

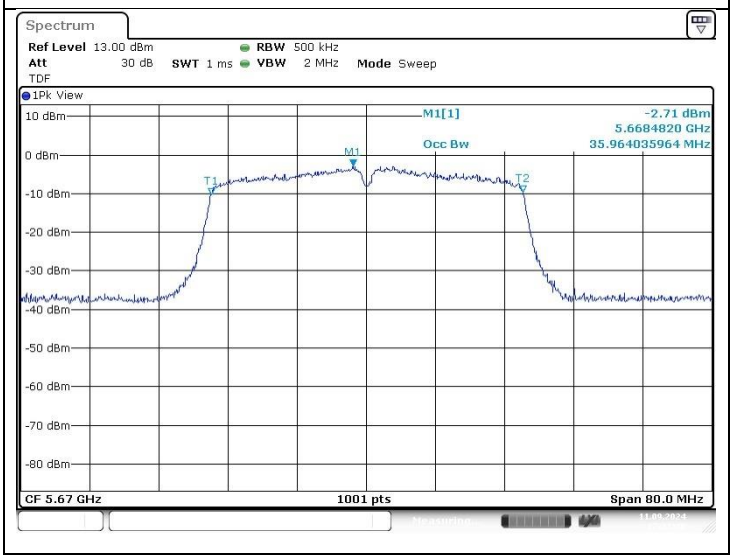
Low Channel
(5 510 ㎒)



Middle Channel
(5 550 ㎒)

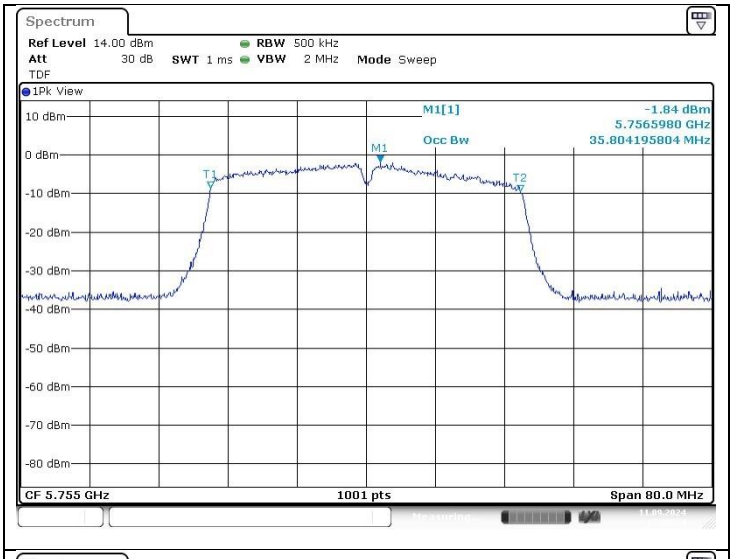


High Channel
(5 670 ㎒)

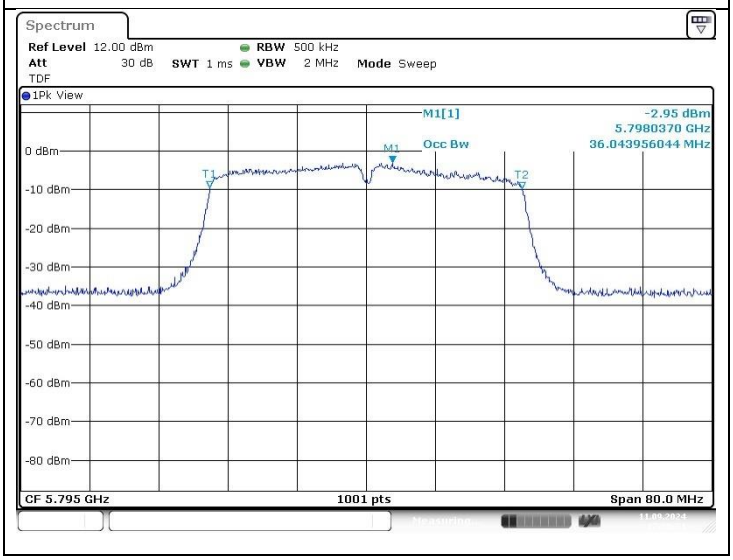


11n_HT40 (Band 3)

Low Channel
(5 755 ㎒)

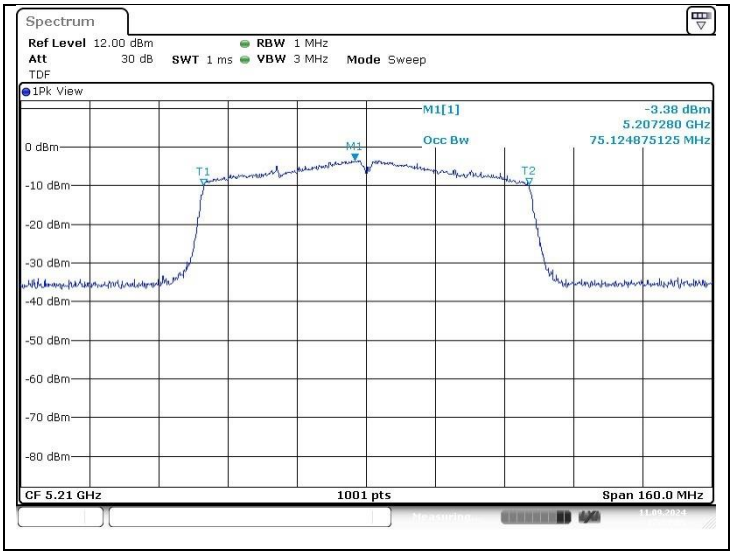


High Channel
(5 795 ㎒)



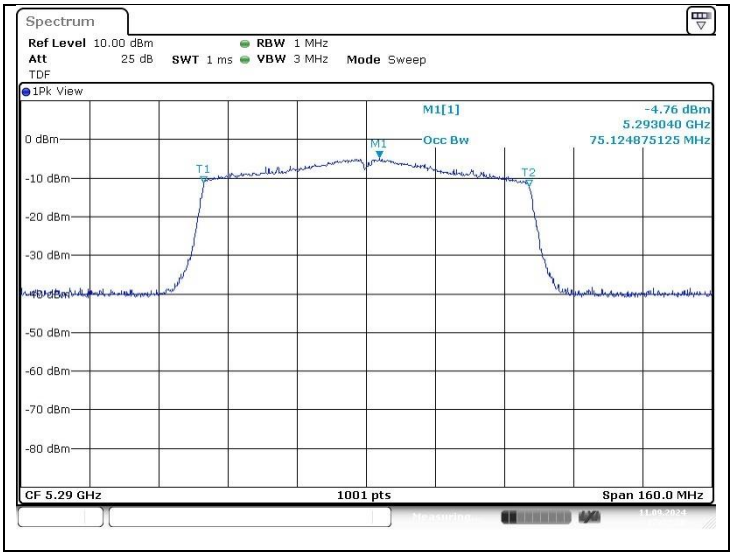
11ac_VHT80 (Band 1)

Middle Channel
(5 210 ㎒)



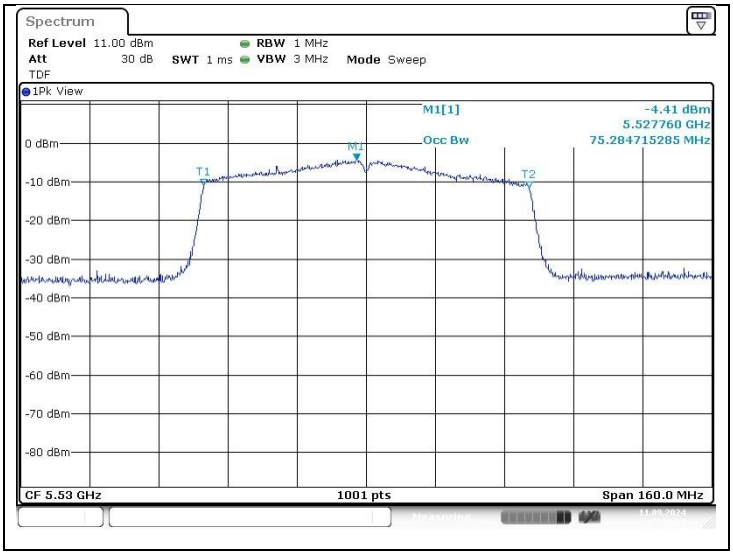
11ac_VHT80 (Band 2A)

Middle Channel
(5 290 ㎒)



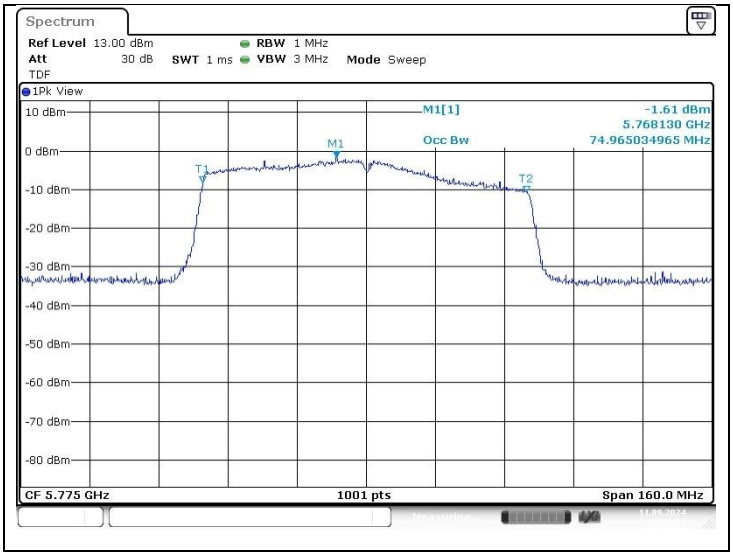
11ac_VHT80 (Band 2C)

Low Channel
(5 530 ㎒)



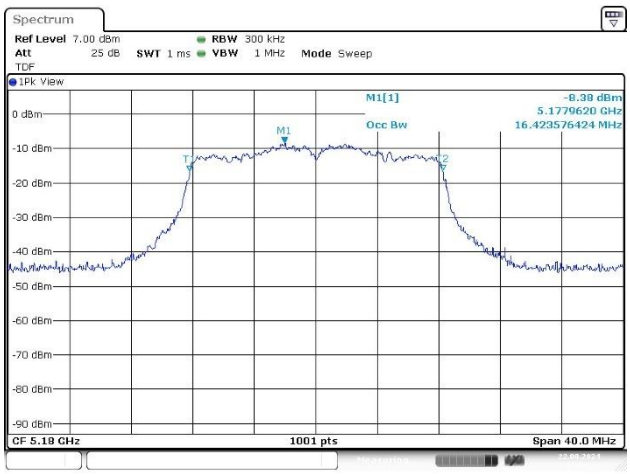
11ac_VHT80 (Band 3)

Middle Channel
(5 775 ㎒)

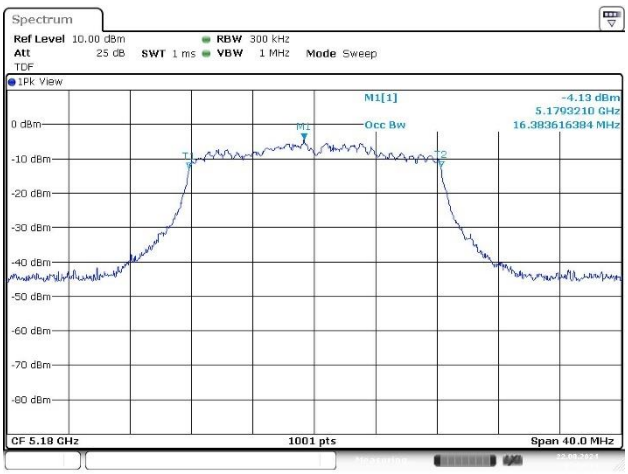


MIMO

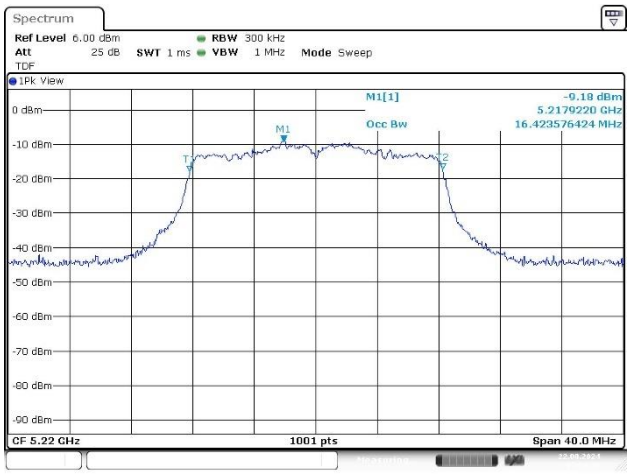
11a (Band 1)



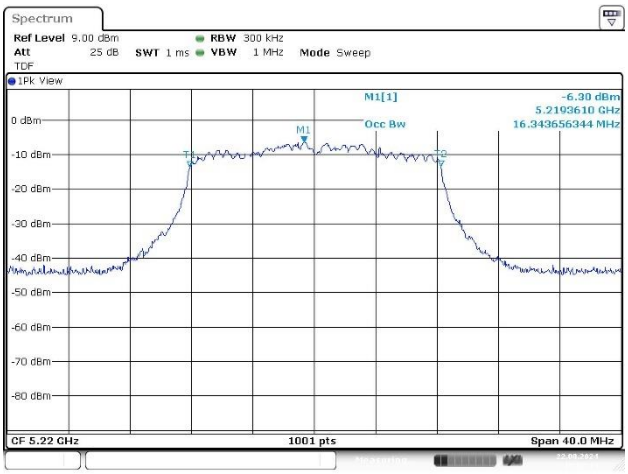
Port 1_Low Channel (5 180 ㎒)



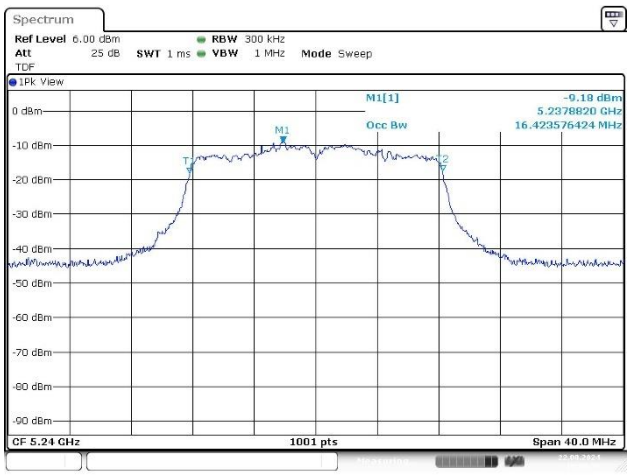
Port 2_Low Channel (5 180 ㎒)



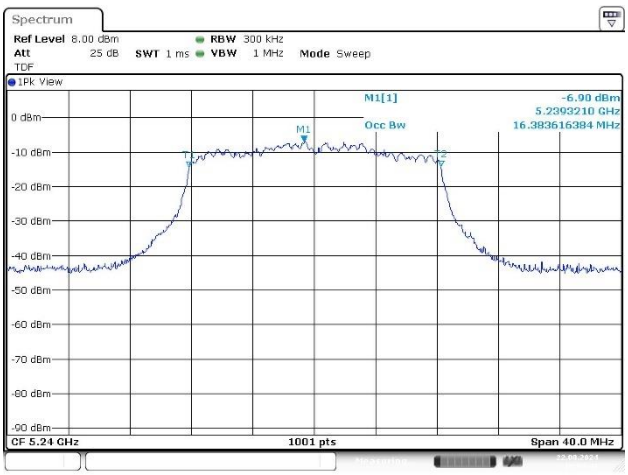
Port 1_Middle Channel (5 220 ㎒)



Port 2_Middle Channel (5 220 ㎒)

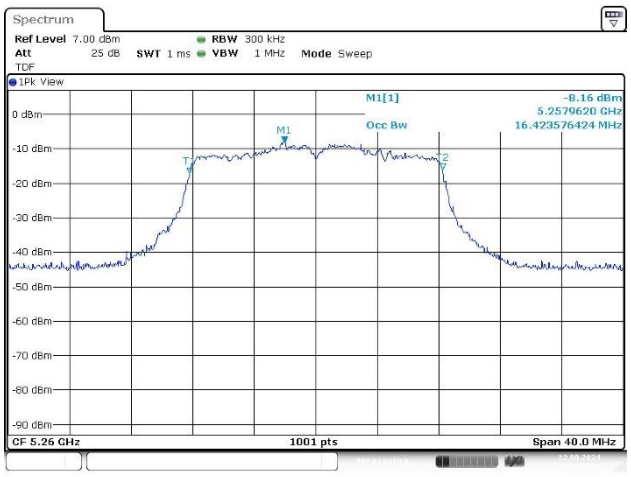


Port 1_High Channel (5 240 ㎒)

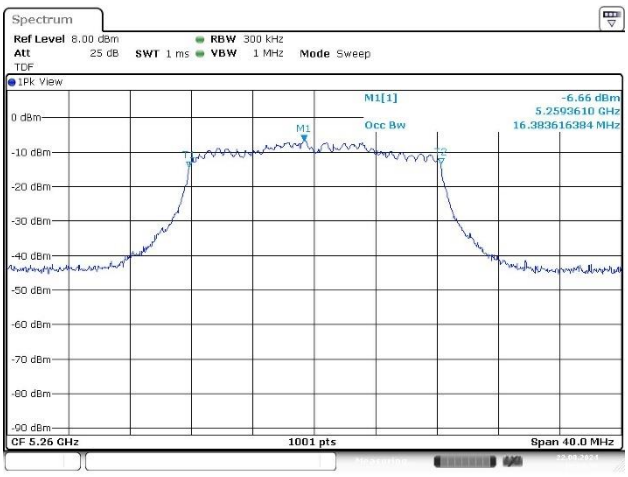


Port 2_High Channel (5 240 ㎒)

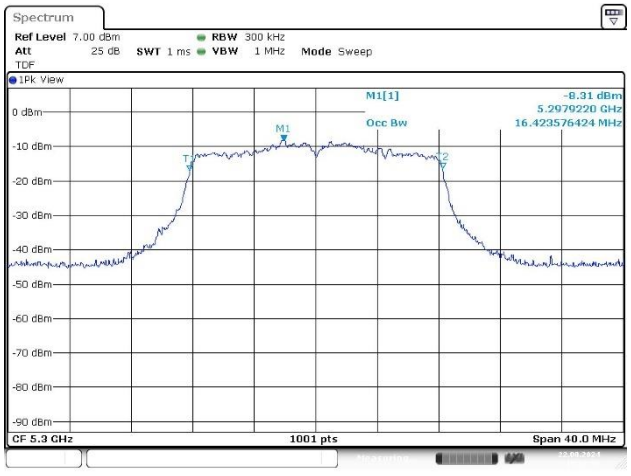
11a (Band 2A)



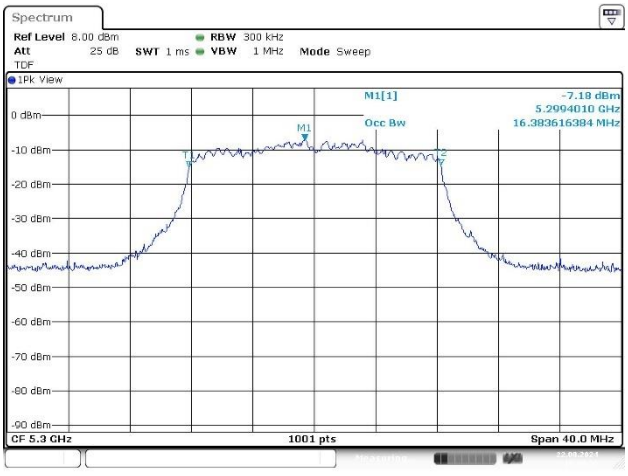
Port 1_Low Channel (5 260 ㎒)



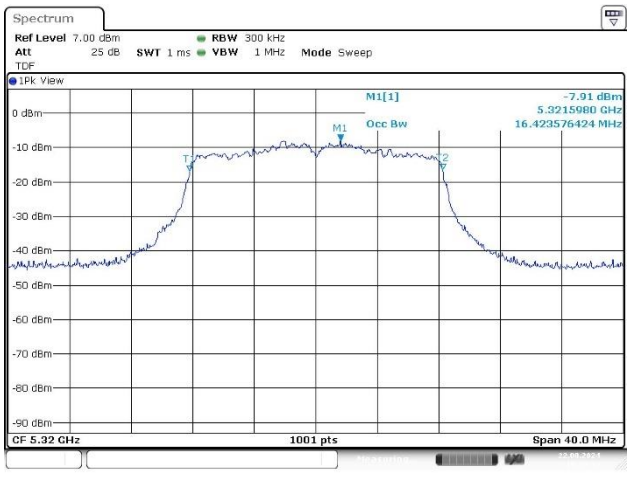
Port 2_Low Channel (5 260 ㎒)



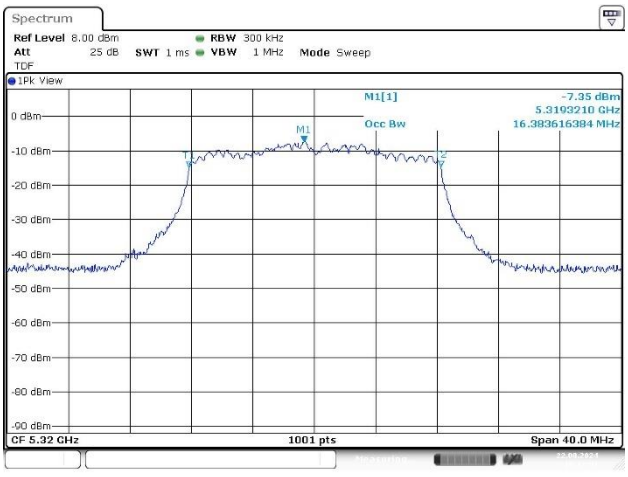
Port 1_Middle Channel (5 300 ㎒)



Port 2_Middle Channel (5 300 ㎒)

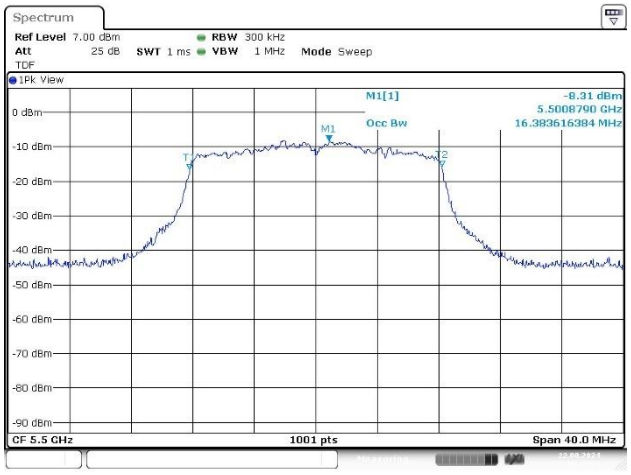


Port 1_High Channel (5 320 ㎒)

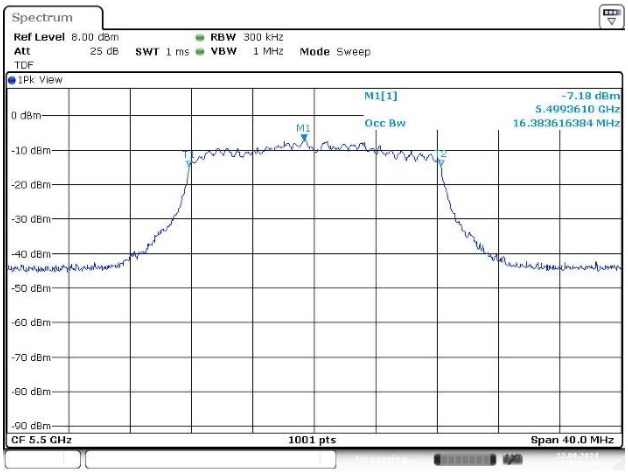


Port 2_High Channel (5 320 ㎒)

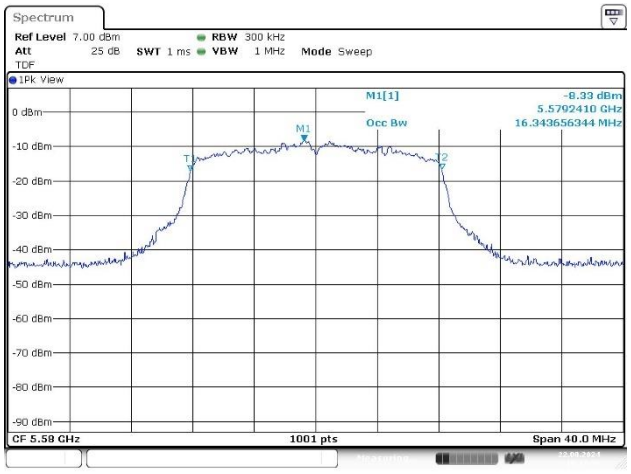
11a (Band 2C)



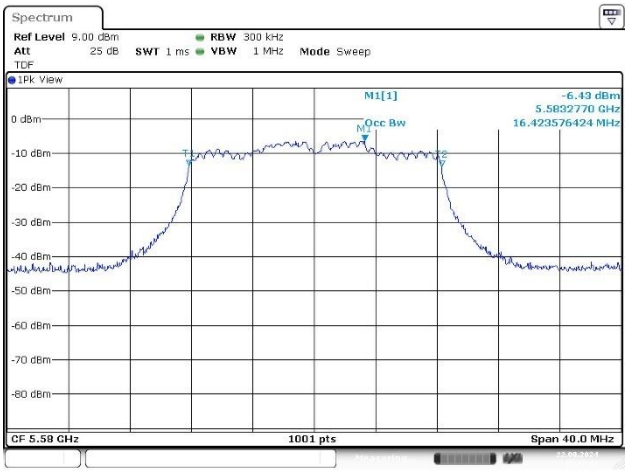
Port 1_Low Channel (5 500 ㎒)



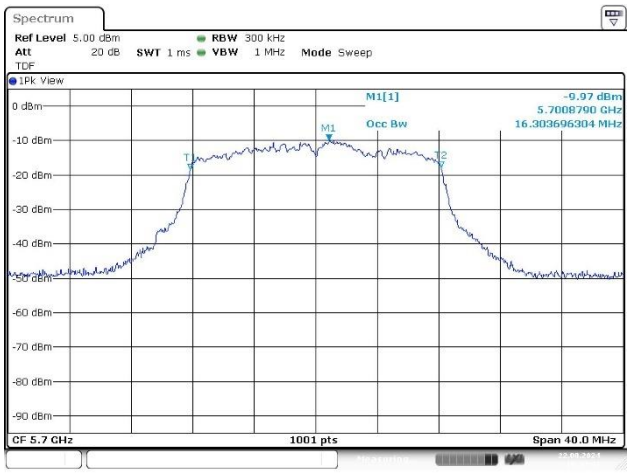
Port 2_Low Channel (5 500 ㎒)



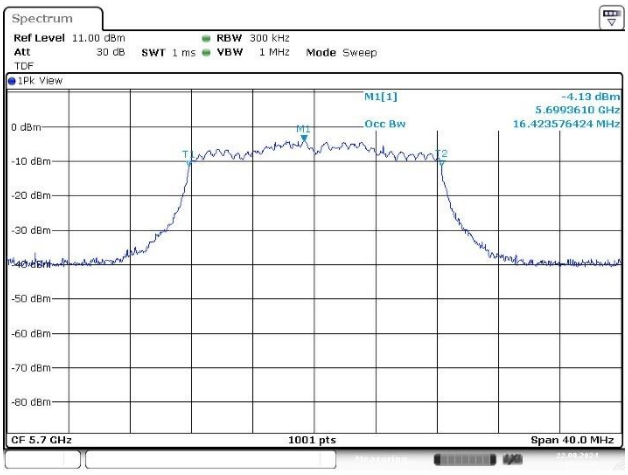
Port 1_Middle Channel (5 580 ㎒)



Port 2_Middle Channel (5 580 ㎒)

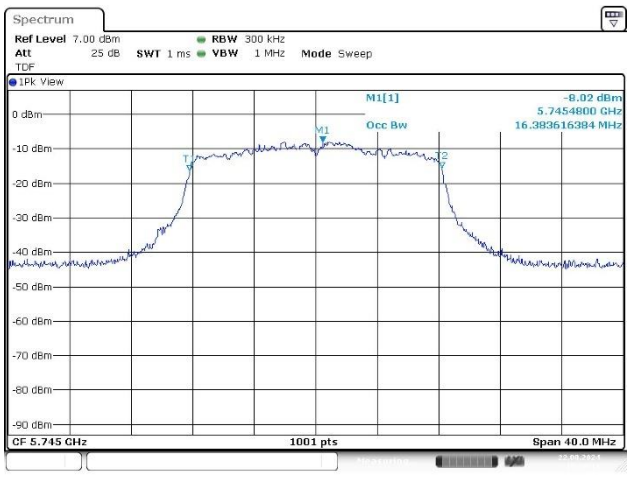


Port 1_High Channel (5 700 ㎒)

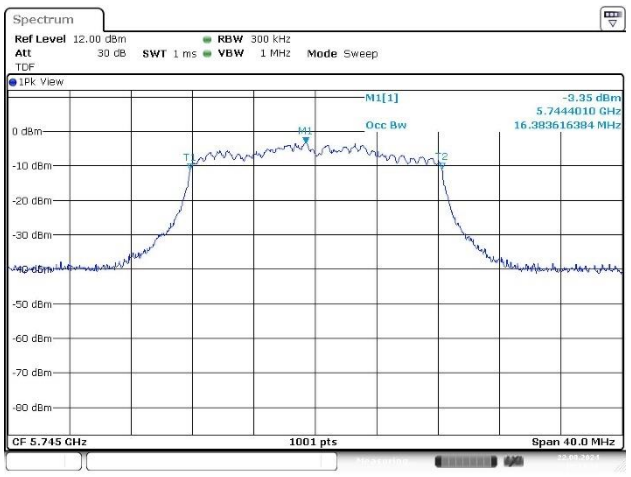


Port 2_High Channel (5 700 ㎒)

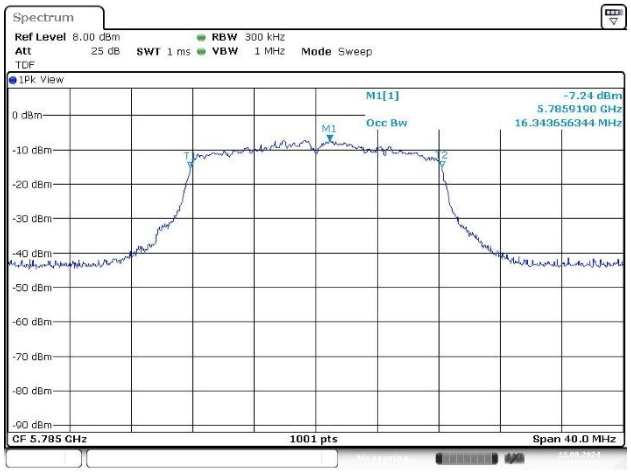
11a (Band 3)



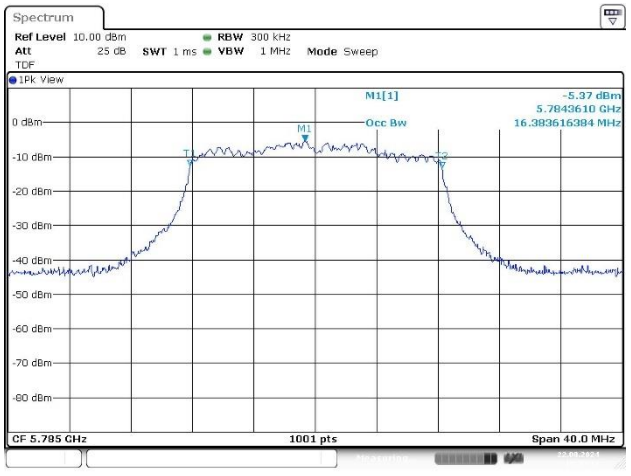
Port 1_Low Channel (5 745 ㎒)



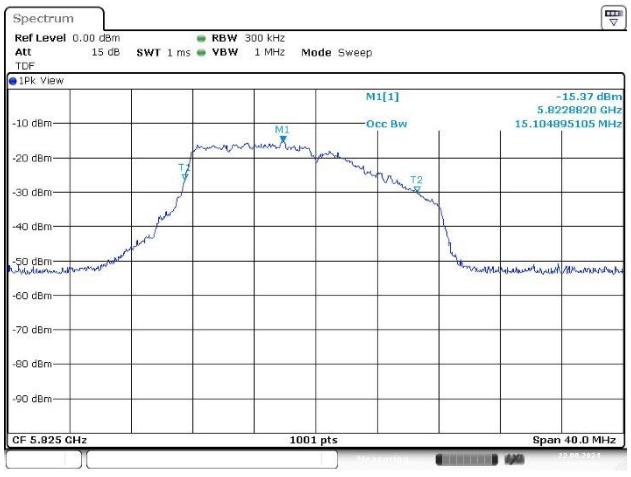
Port 2_Low Channel (5 745 ㎒)



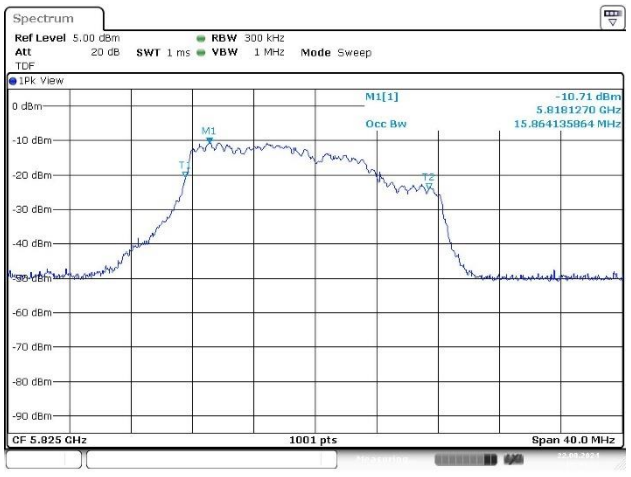
Port 1_Middle Channel (5 785 ㎒)



Port 2_Middle Channel (5 785 ㎒)

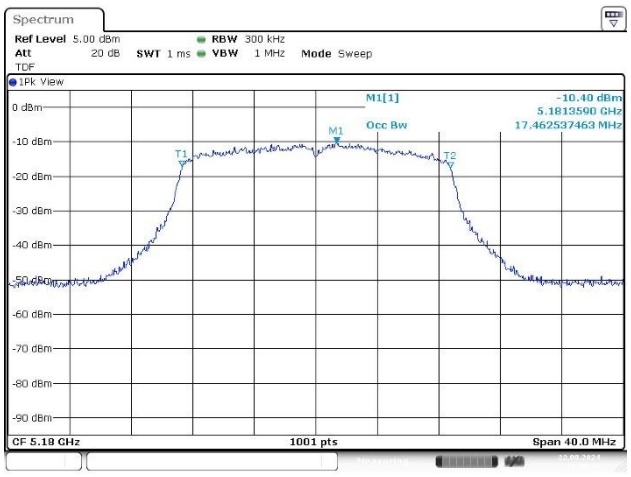


Port 1_High Channel (5 825 ㎒)

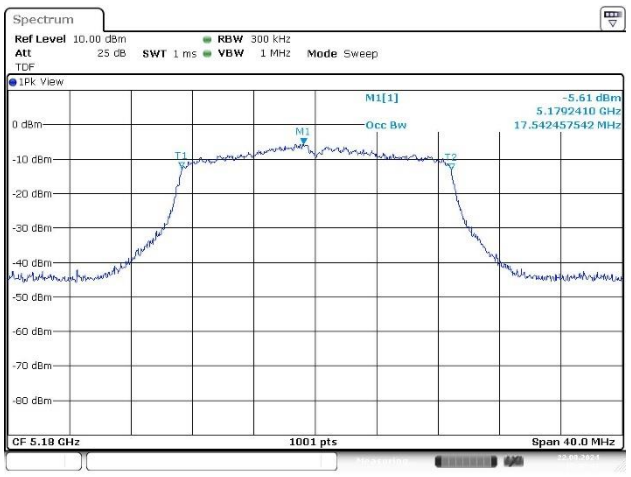


Port 2_High Channel (5 825 ㎒)

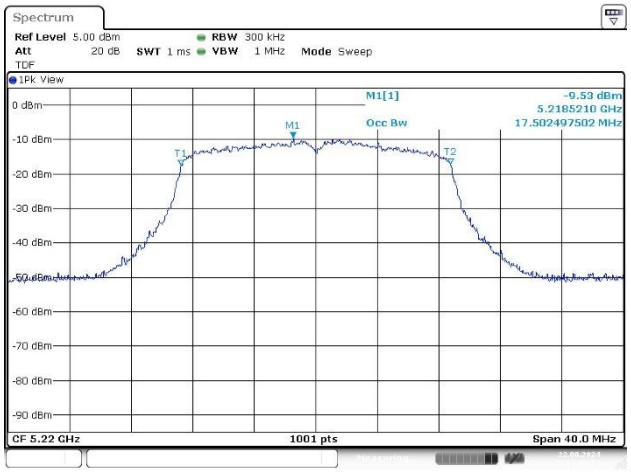
11n_HT20 (Band 1)



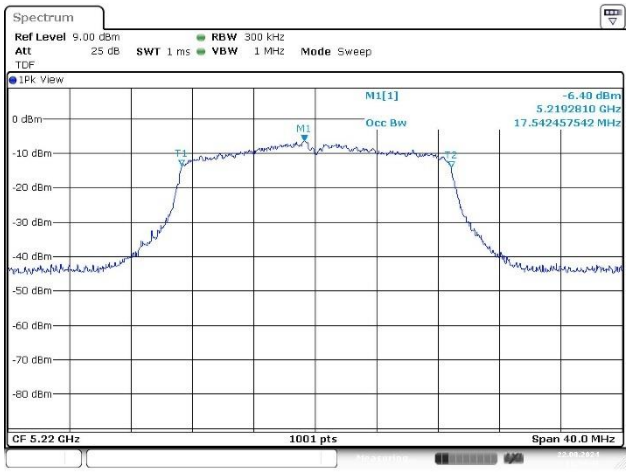
Port 1_Low Channel (5 180 ㎒)



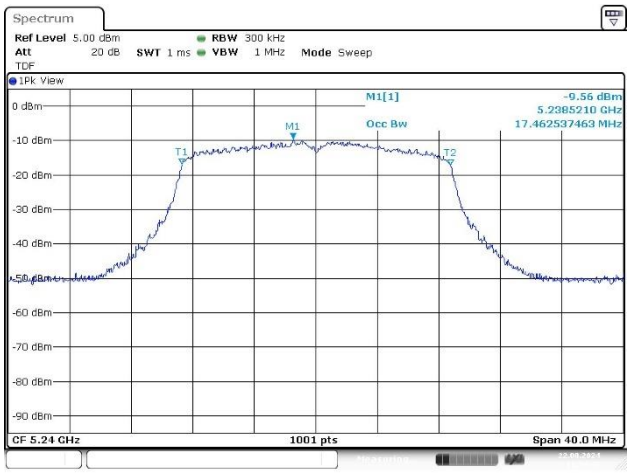
Port 2_Low Channel (5 180 ㎒)



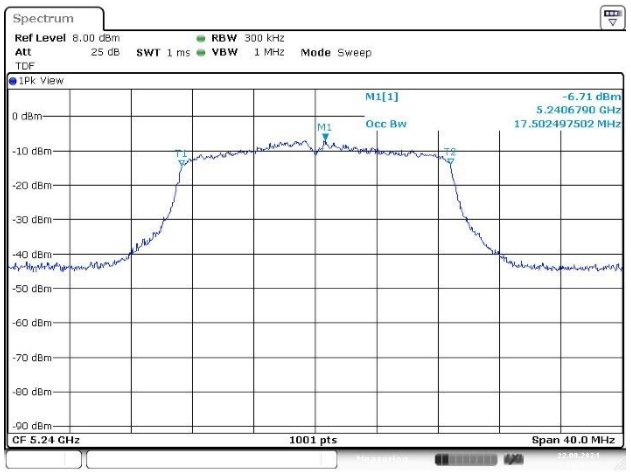
Port 1_Middle Channel (5 220 ㎒)



Port 2_Middle Channel (5 220 ㎒)

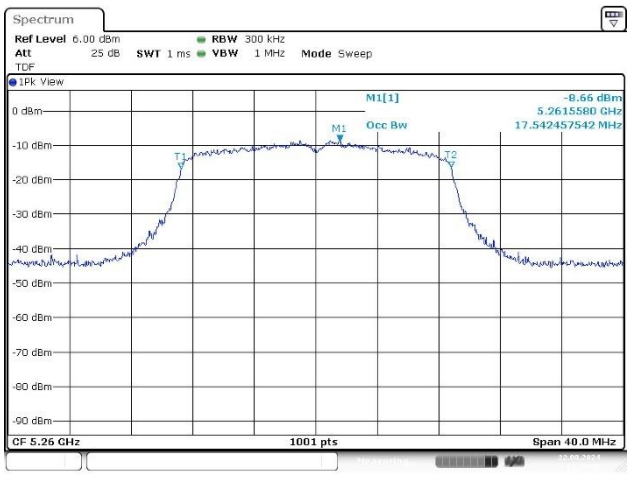


Port 1_High Channel (5 240 ㎒)

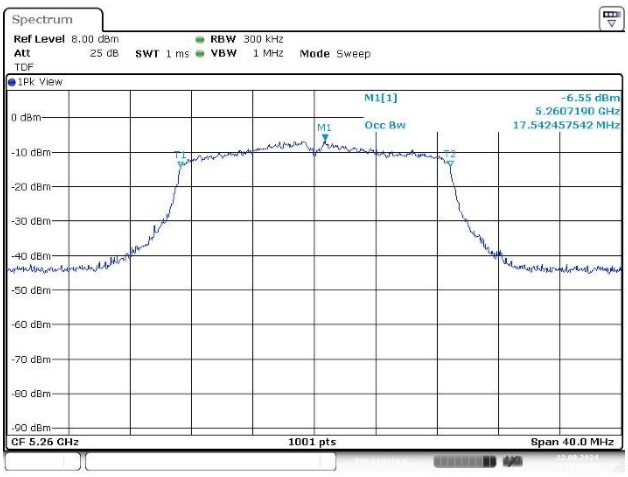


Port 2_High Channel (5 240 ㎒)

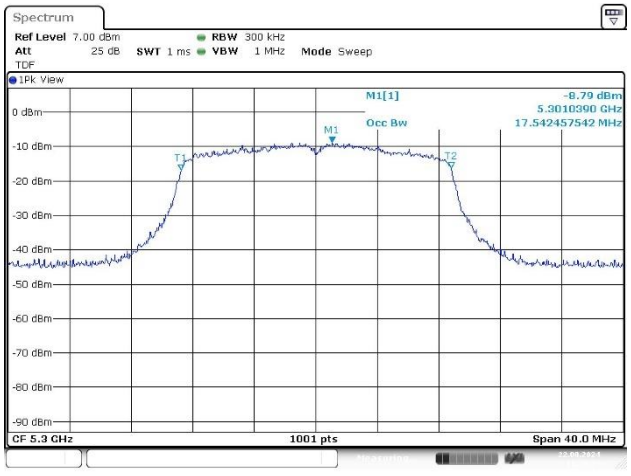
11n_HT20 (Band 2A)



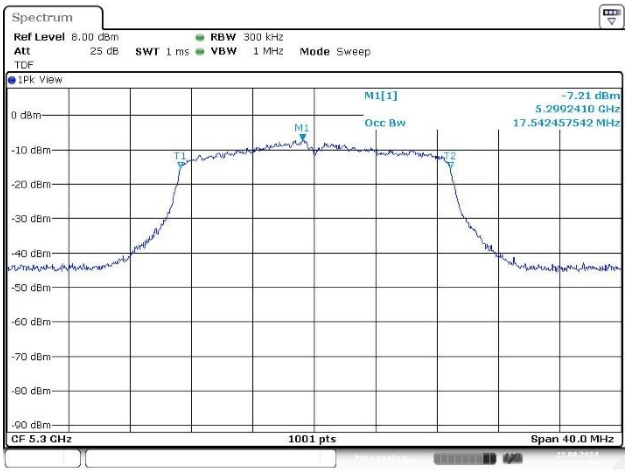
Port 1_Low Channel (5 260 ㎒)



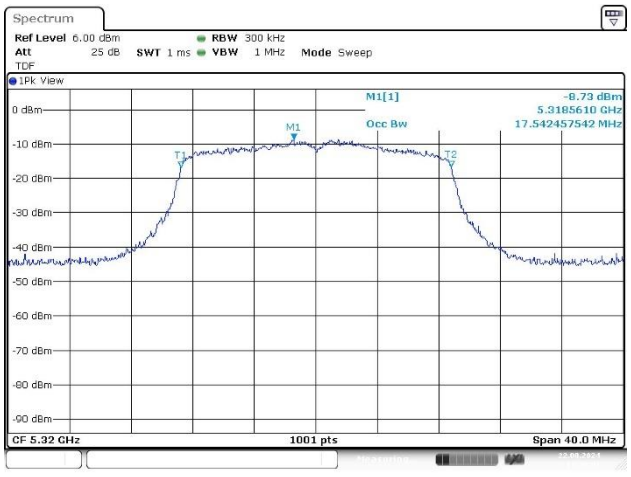
Port 2_Low Channel (5 260 ㎒)



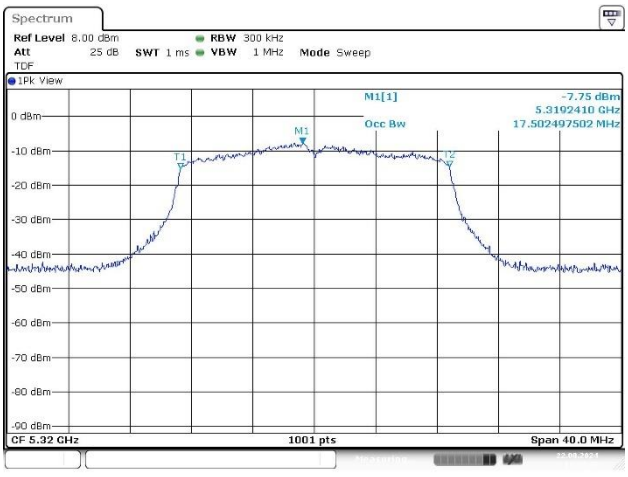
Port 1_Middle Channel (5 300 ㎒)



Port 2_Middle Channel (5 300 ㎒)

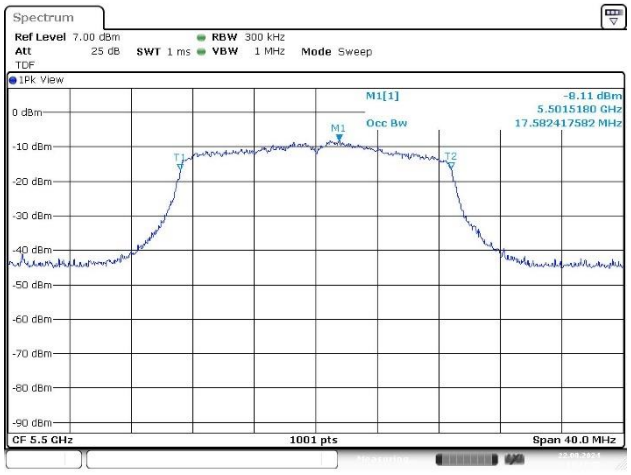


Port 1_High Channel (5 320 ㎒)

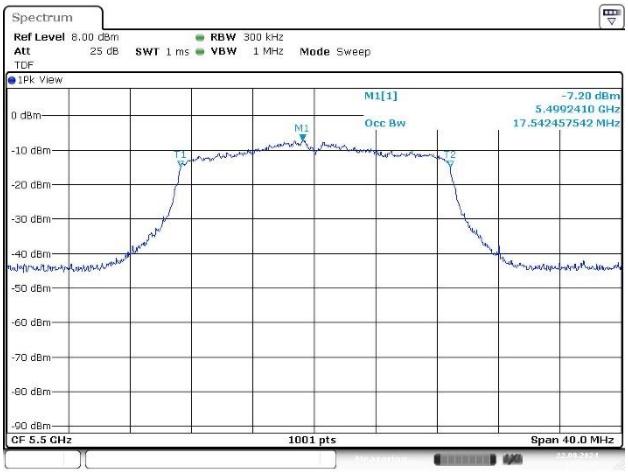


Port 2_High Channel (5 320 ㎒)

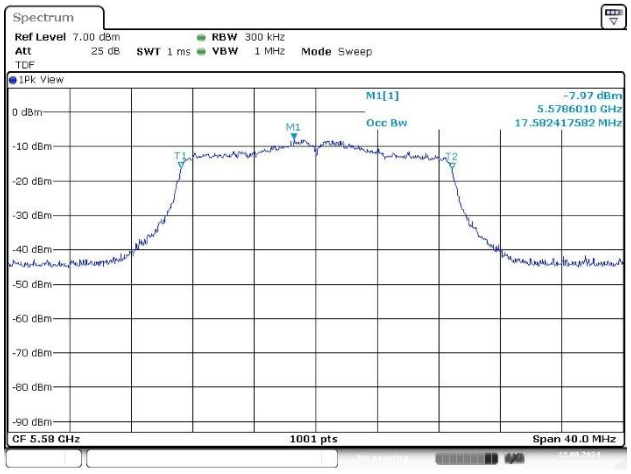
11n_HT20 (Band 2C)



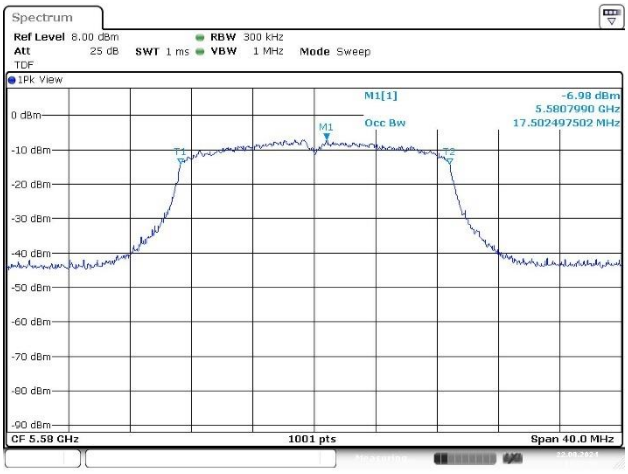
Port 1_Low Channel (5 500 ㎒)



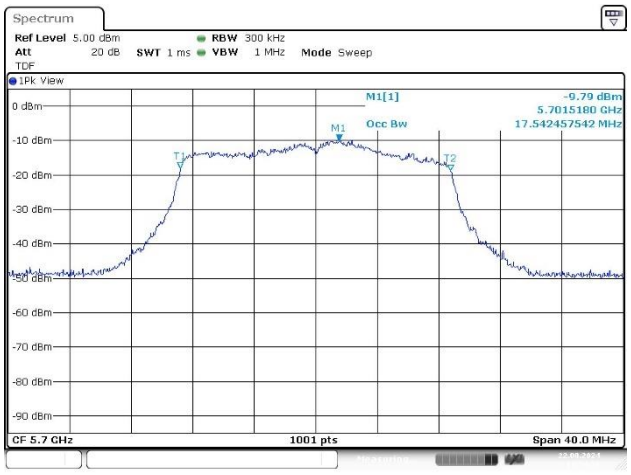
Port 2_Low Channel (5 500 ㎒)



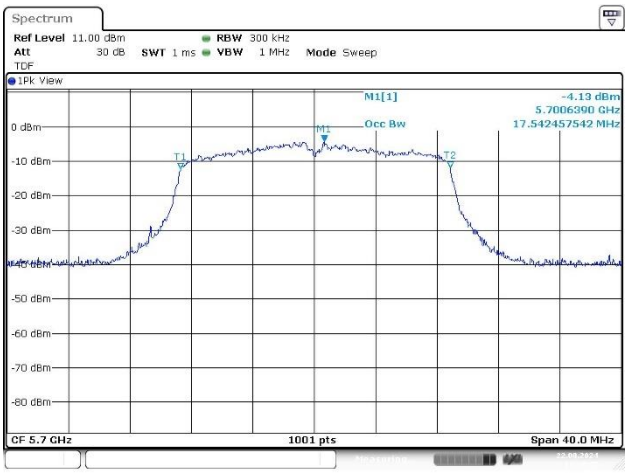
Port 1_Middle Channel (5 580 ㎒)



Port 2_Middle Channel (5 580 ㎒)

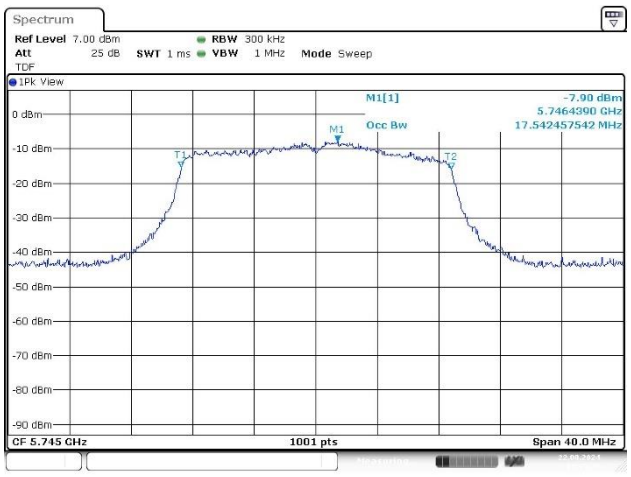


Port 1_High Channel (5 700 ㎒)

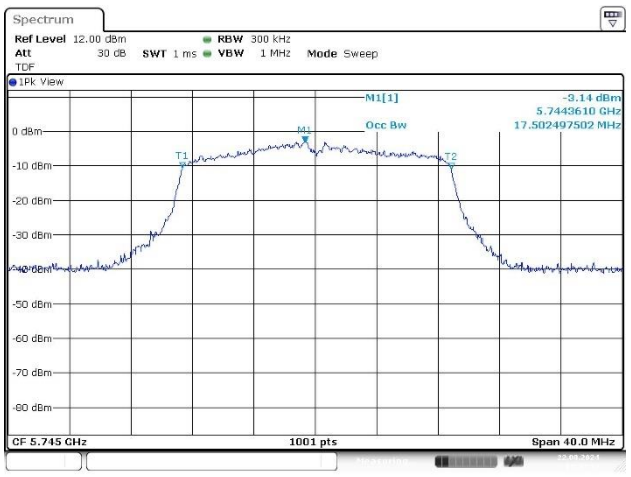


Port 2_High Channel (5 700 ㎒)

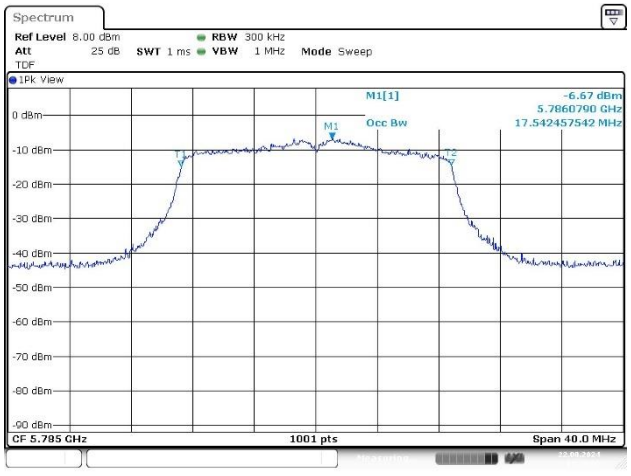
11n_HT20 (Band 3)



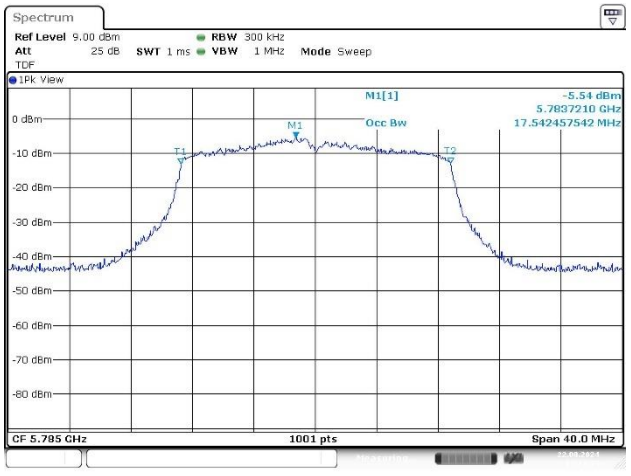
Port 1_Low Channel (5 745 ㎒)



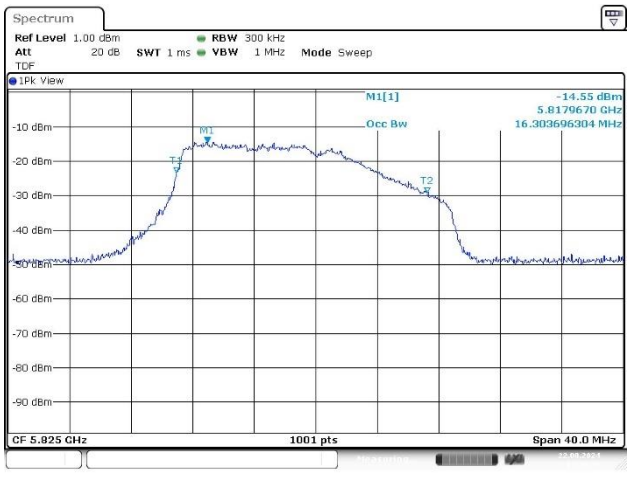
Port 2_Low Channel (5 745 ㎒)



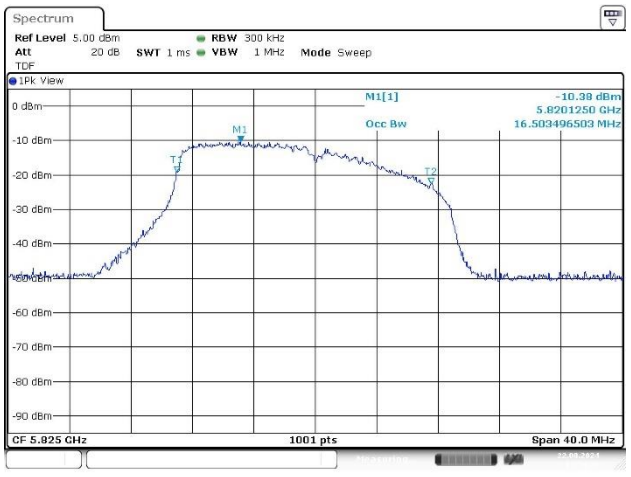
Port 1_Middle Channel (5 785 ㎒)



Port 2_Middle Channel (5 785 ㎒)

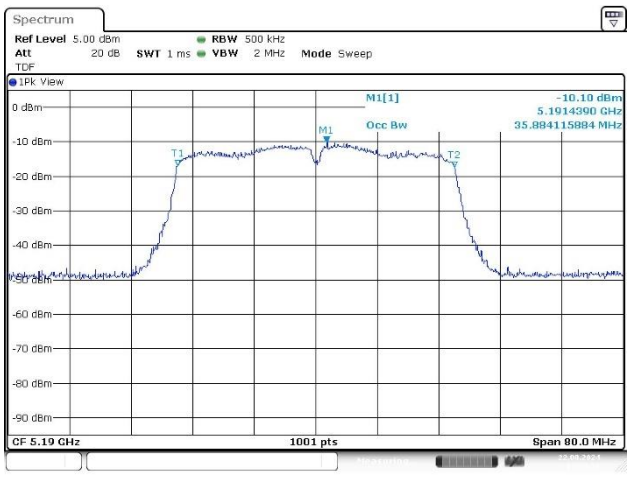


Port 1_High Channel (5 825 ㎒)

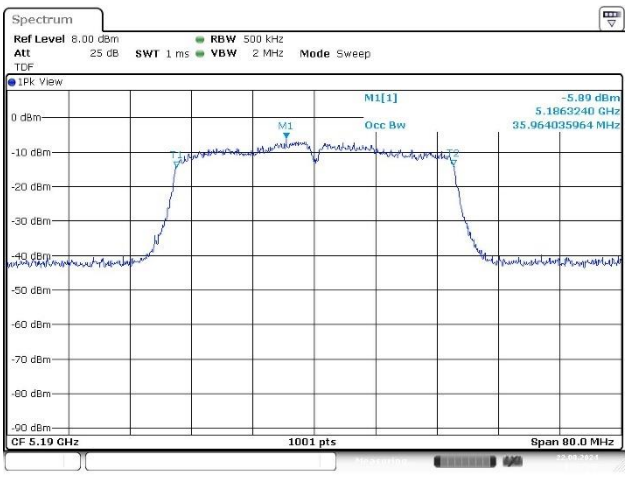


Port 2_High Channel (5 825 ㎒)

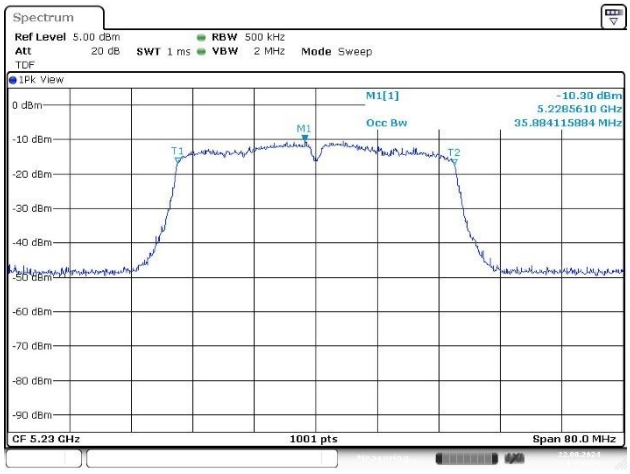
11n_HT40 (Band 1)



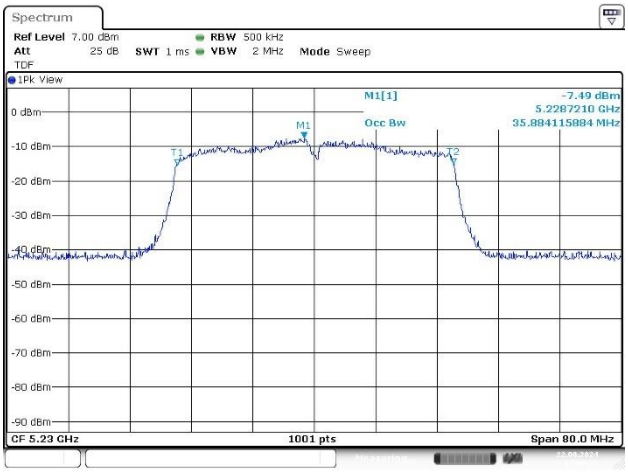
Port 1_Low Channel (5 190 ㎒)



Port 2_Low Channel (5 190 ㎒)

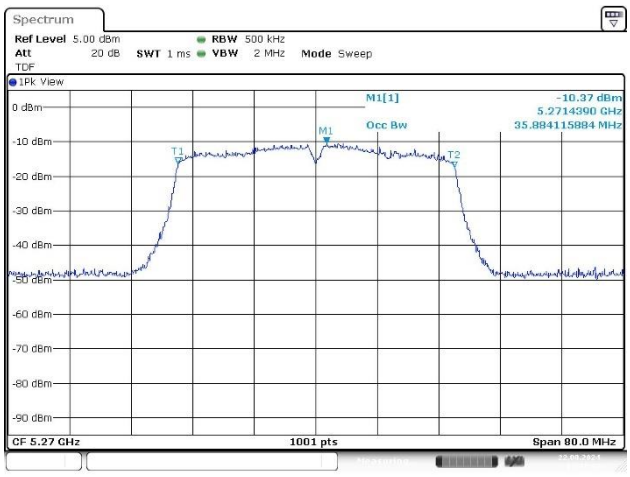


Port 1_High Channel (5 230 ㎒)

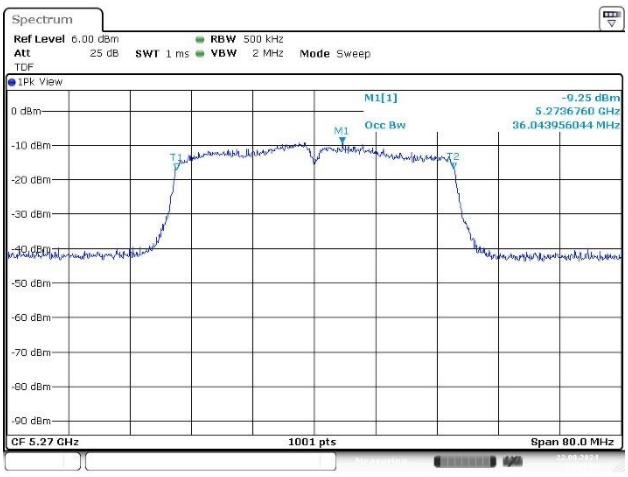


Port 2_High Channel (5 230 ㎒)

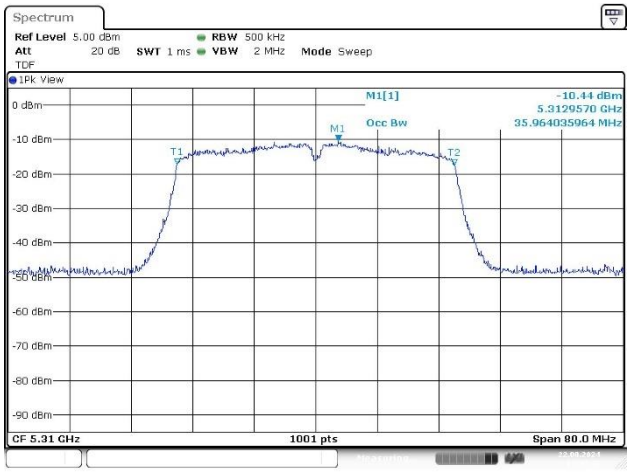
11n_HT40 (Band 2A)



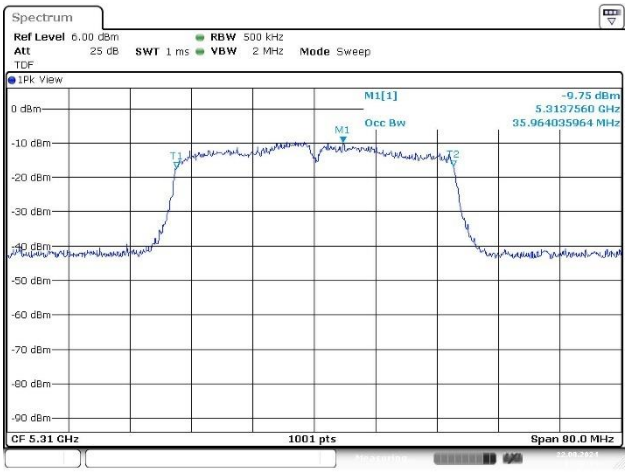
Port 1_Low Channel (5 270 ㎒)



Port 2_Low Channel (5 270 ㎒)

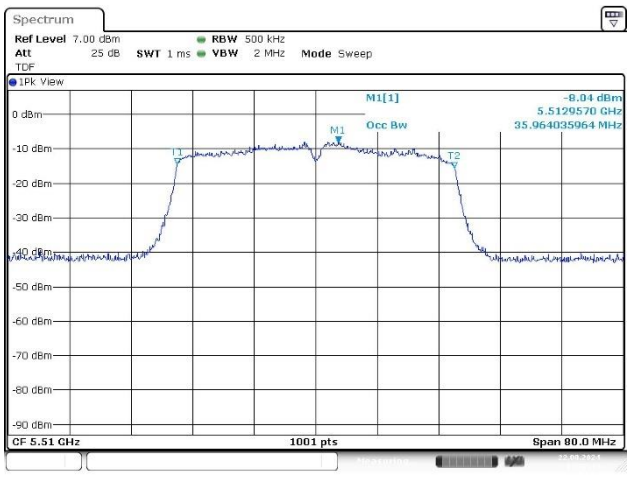


Port 1_High Channel (5 310 ㎒)

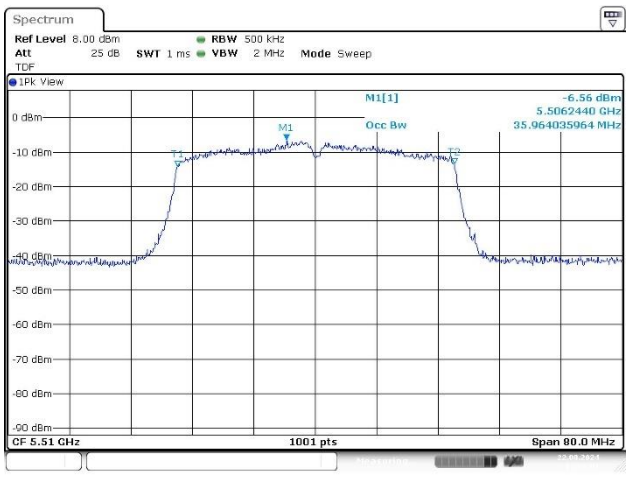


Port 2_High Channel (5 310 ㎒)

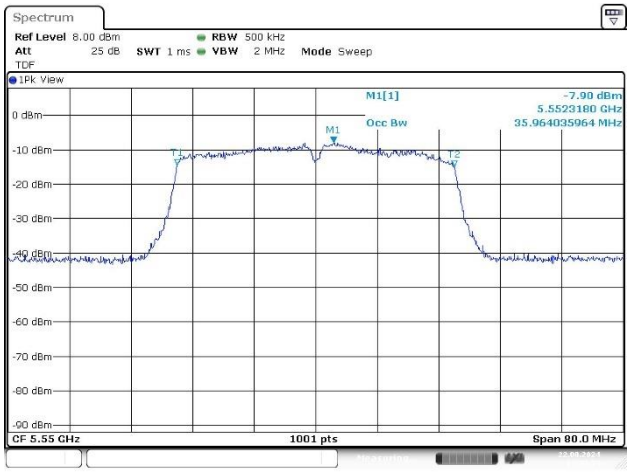
11n_HT40 (Band 2C)



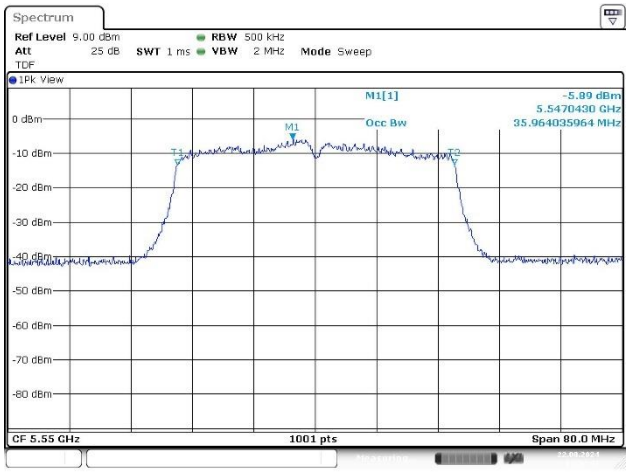
Port 1_Low Channel (5 510 ㎒)



Port 2_Low Channel (5 510 ㎒)

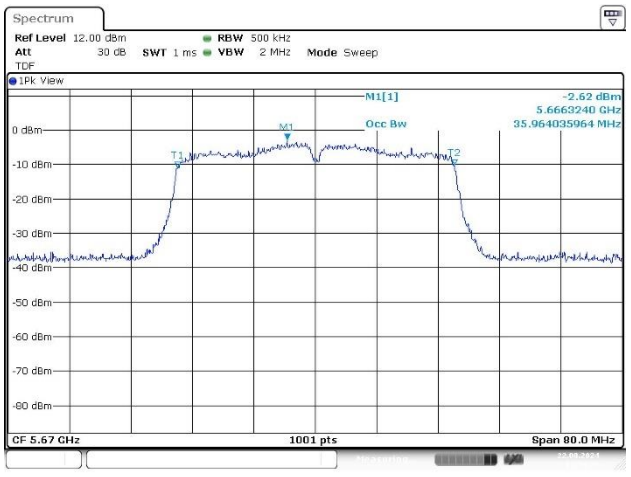


Port 1_Middle Channel (5 550 ㎒)



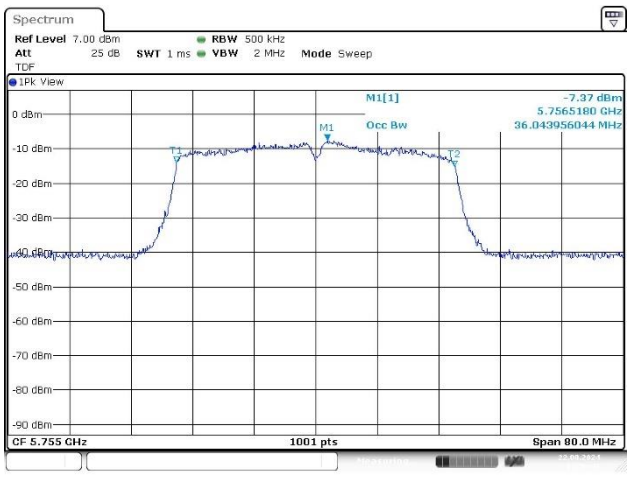
Port 2_Middle Channel (5 550 ㎒)

Port 1_High Channel (5 670 ㎒)

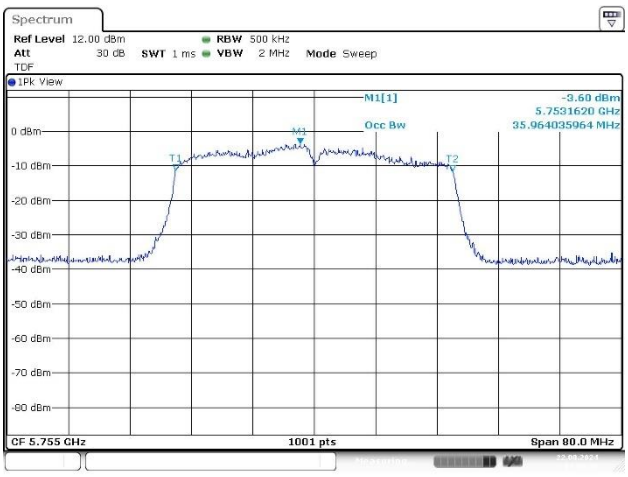


Port 2_High Channel (5 670 ㎒)

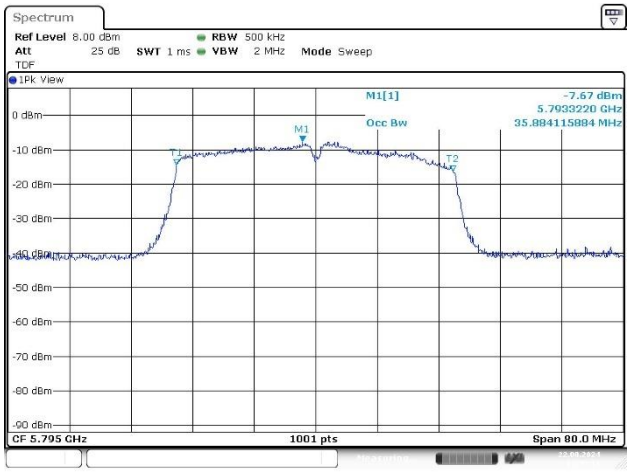
11n_HT40 (Band 3)



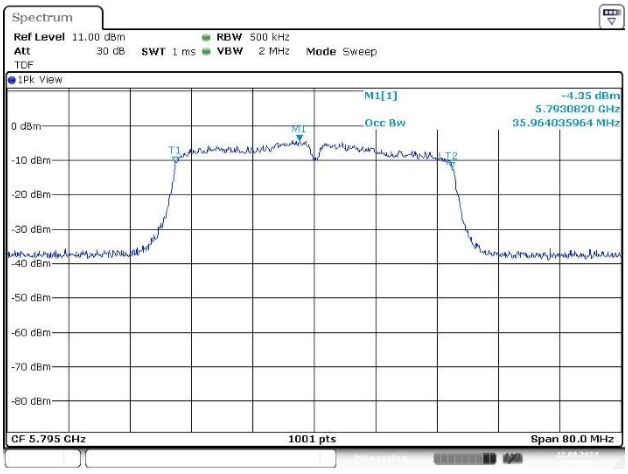
Port 1_Low Channel (5 755 ㎒)



Port 2_Low Channel (5 755 ㎒)

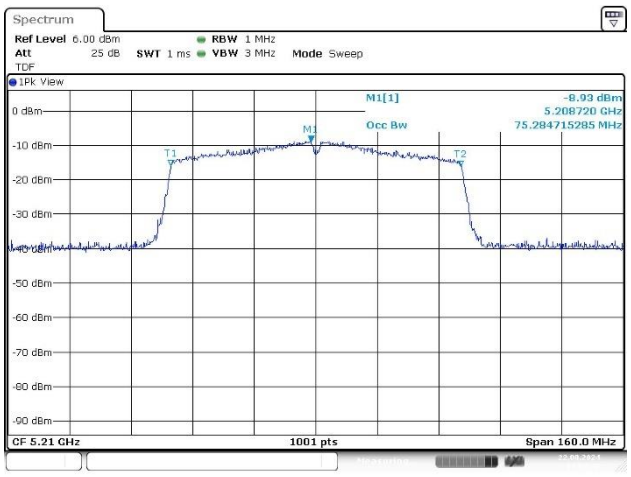


Port 1_High Channel (5 795 ㎒)

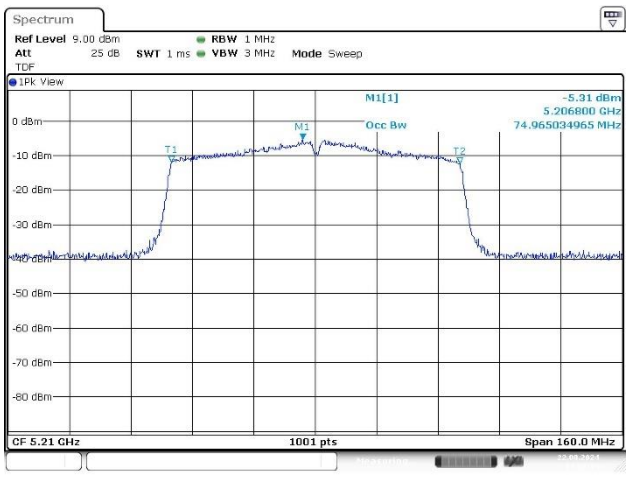


Port 2_High Channel (5 795 ㎒)

11ac_VHT80 (Band 1)

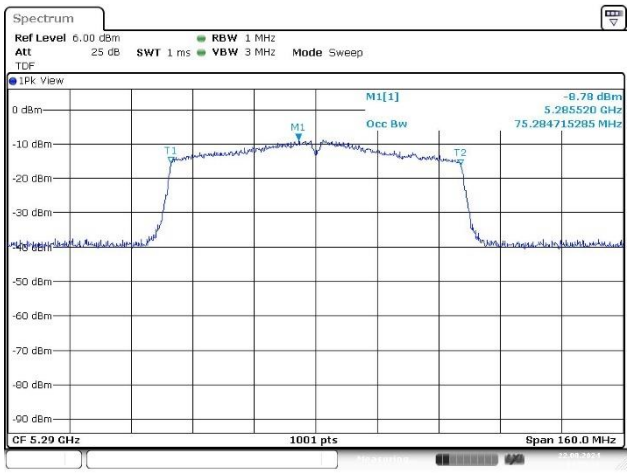


Port 1_Middle Channel (5 210 ㎒)

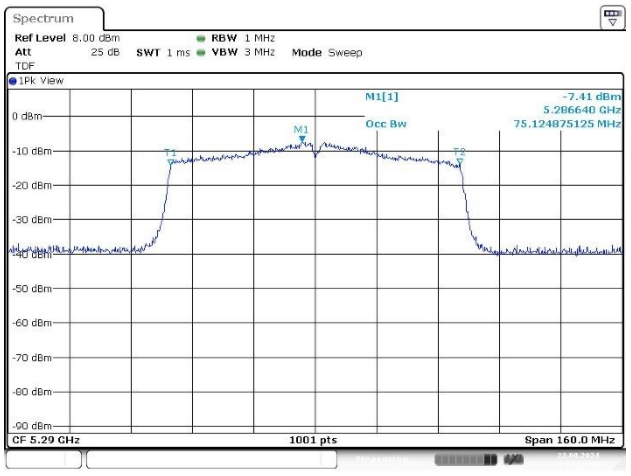


Port 2_Middle Channel (5 210 ㎒)

11ac_VHT80 (Band 2A)

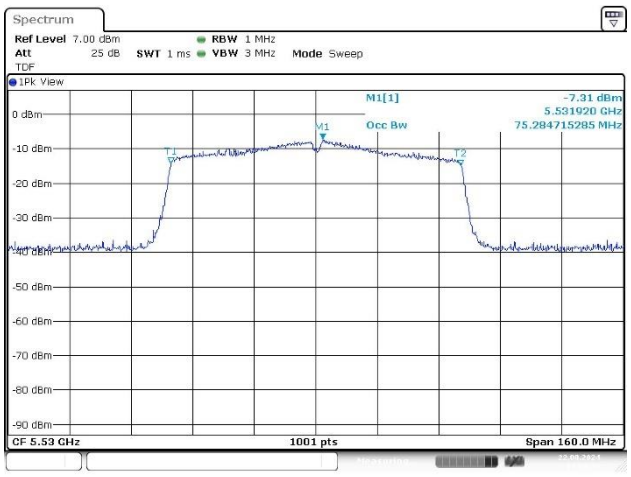


Port 1_Middle Channel (5 290 ㎒)

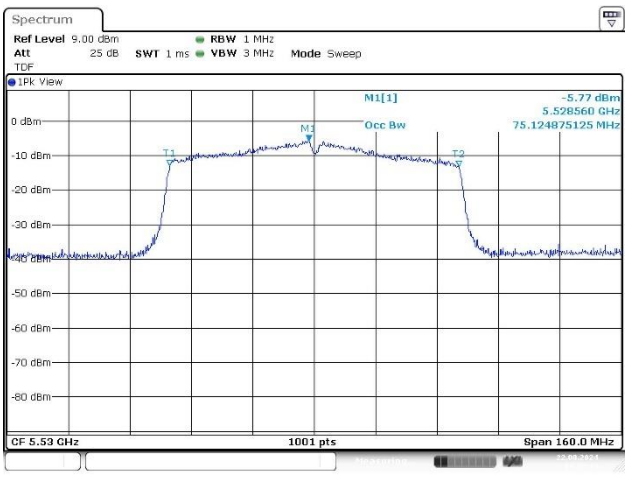


Port 2_Middle Channel (5 290 ㎒)

11ac_VHT80 (Band 2C)

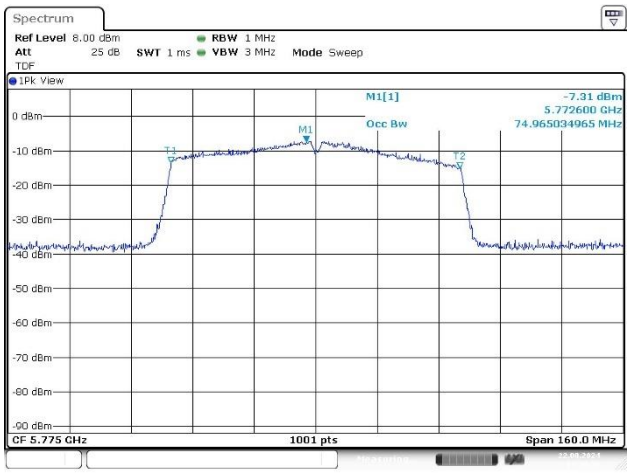


Port 1_Middle Channel (5 530 ㎒)

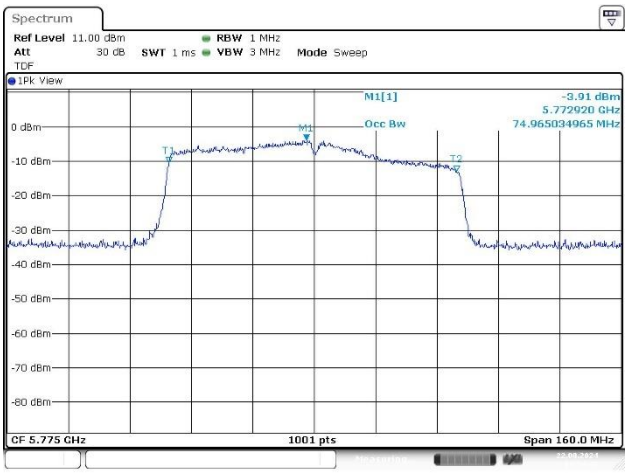


Port 2_Middle Channel (5 530 ㎒)

11ac_VHT80 (Band 3)



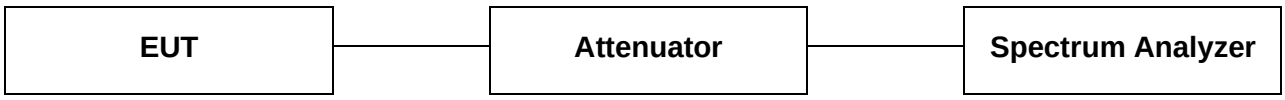
Port 1_Middle Channel (5 775 ㎒)



Port 2_Middle Channel (5 775 ㎒)

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 ㎓ band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 ㎑.

4.2.2. IC

According to RSS-247 Issue 3, 6.2.4.2, for equipment operating in the band 5 725-5 850 ㎒, the 6 dB bandwidth shall be at least 500 ㎑.

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 ㎑.
3. Set the video bandwidth (VBW) ≥ 3 x 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.

4.4. Test Result

Ambient temperature : (23 ± 1) ℃

Relative humidity : 47 % R.H.

-SISO

Band	Mode	Frequency (㎒)	Ch.	Data Rate	6 ㏈ Bandwidth (㎒)	Minimum Bandwidth (㎑)
U-NII 3	11a	5 745	149	6 Mbps	15.145	500
		5 785	157		15.345	
		5 825	165		10.749	
	11n_HT20	5 745	149	MCS0	15.944	
		5 785	157		15.125	
		5 825	165		11.369	
	11n_HT40	5 755	151	MCS0	35.165	
		5 795	159		35.525	
	11ac_VHT80	5 775	155	MCS0	62.657	

Band-crossing channels

Band	Frequency (㎒)	Ch.	Data Rate	6 ㏈ Bandwidth (㎒)
11a	5 720	144	6 Mbps	2.622
11n_HT20	5 720	144	MCS0	2.602
11n_HT40	5 710	142	MCS0	2.642
11ac_VHT80	5 690	138	MCS0	2.682

- MIMO(CDD)

Band	Mode	Frequency (㎒)	Ch.	Data Rate	6 ㏈ Bandwidth (㎒)		Minimum Bandwidth (㎑)
					Port 1	Port 2	
U-NII 3	11a	5 745	149	6 Mbps	15.145	15.165	500
		5 785	157		15.165	15.045	
		5 825	165		10.709	10.729	
	11n_HT20	5 745	149	MCS0	15.984	15.744	
		5 785	157		15.125	15.125	
		5 825	165		11.369	11.349	
	11n_HT40	5 755	151	MCS0	35.165	35.125	
		5 795	159		32.647	35.165	
	11ac_VHT80	5 775	155	MCS0	62.657	52.747	

Band-crossing channels

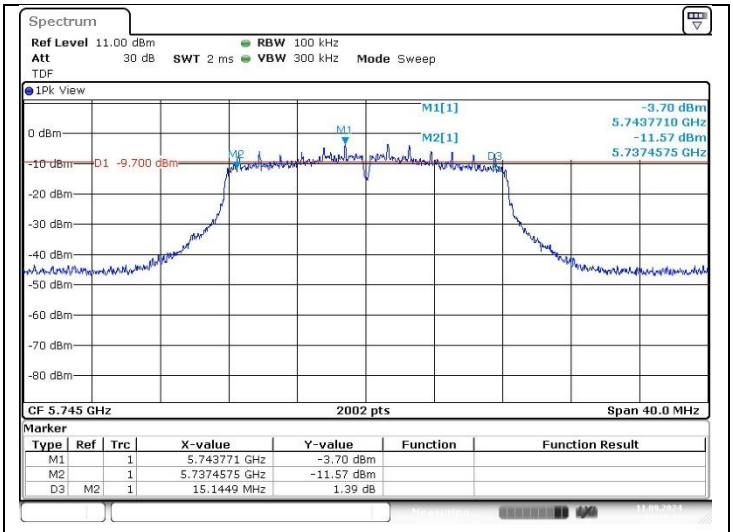
Band	Frequency (㎒)	Ch.	Data Rate	6 ㏈ Bandwidth (㎒)	
				Port 1	Port 2
11a	5 720	144	6 Mbps	2.582	2.582
11n_HT20	5 720	144	MCS0	2.562	2.582
11n_HT40	5 710	142	MCS0	2.602	2.602
11ac_VHT80	5 690	138	MCS0	1.404	2.602

- Test plots

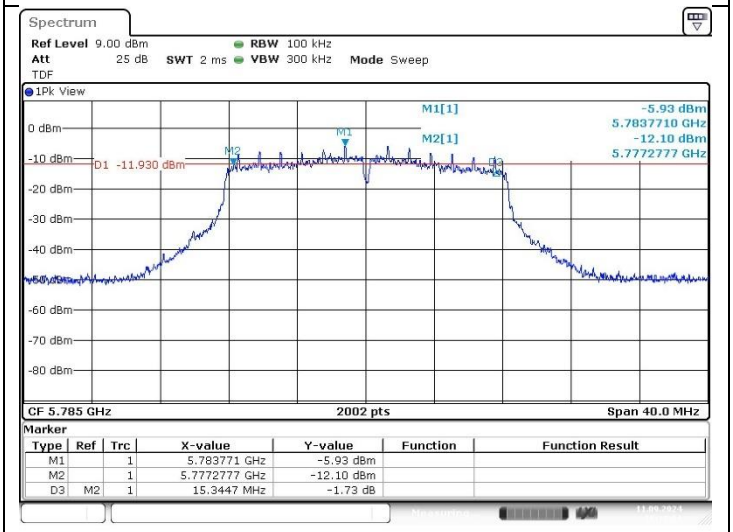
SISO

11a (Band 3)

Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)



High Channel
(5 825 ㎒)