

# TEST REPORT

Report No.	CISRR25062528801
Project No.	CISR250625288
FCC ID	2BQMW-BLM-OV
Applicant	Guangzhou Geeklink Intelligent Technology Co., Ltd.
Address	Room 401, No. 26 Qinglan Street, Xiaoguwei Street, Panyu District, Guangzhou City, Guangdong Province, China
Manufacturer	Guangzhou Geeklink Intelligent Technology Co., Ltd.
Address	Room 401, No. 26 Qinglan Street, Xiaoguwei Street, Panyu District, Guangzhou City, Guangdong Province, China
Product Name	Smart Voice Panel
Trade Mark	N/A
Model/Type reference	BLM-OV
Listed Model(s)	BLM-OV1、BLM-OV2、mini-ov1、mini-ov2、BLM-VOIP、BLM-SIP、BLM-LLM、BLM-OVP
Standard	47 CFR Part 15.247
Test date	June 25, 2025 to June 30, 2025
Issue date	July 7, 2025
<b>Test result</b>	<b>Complied</b>

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The test results relate only to the tested samples.

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## **1. REPORT VERSION**

Version No.	Issue date	Description
00	July 7, 2025	Original

## 2. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR 15.247(e)	Pass
6	Conducted band edge and spurious emission	47 CFR 15.247(d)	Pass
7	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

**Note:**

- The measurement uncertainty is not included in the test result.

### 3. SUMMARY

#### 3.1. Product Description \*

Main unit information:	
Product Name:	Smart Voice Panel
Trade Mark:	N/A
Model No.:	BLM-OV
Listed Model(s):	BLM-OV1、BLM-OV2、mini-ov1、mini-ov2、 BLM-VOIP、BLM-SIP、BLM-LLM、BLM-OVP
Model difference:	The difference between different models is that in this application, due to different sales channels and different model names.
Power supply:	Input:100-240V~
Hardware version:	N/A
Software version:	N/A
Accessory unit (AU) information:	
AU-1	N/A

#### 3.2. Radio Specification Description \*

Modulation type:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g/n(HT20)/n(HT40): OFDM(BPSK, QPSK, 16QAM, 64QAM)
Operation frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz
Channel number:	802.11b/g/n(HT20): 11 Channels; 802.11n(HT40): 7 Channels
Channel separation:	5MHz
Antenna type:	PCB
Antenna gain:	3.57dBi

##### Note:

- 1) \*: Since the above information is provided by the applicant relevant results or conclusions of this report are only made for these information , Bangce is not responsible for the authenticity, integrity and results of the information and/or the validity of the conclusion.
- 2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

### 3.3. Modification of EUT

No modifications are made to the EUT during all test items.

### 3.4. Deviation from standards

None

### 3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: <a href="mailto:service@cis-cn.net">service@cis-cn.net</a> Website: <a href="http://www.cis-cn.net/">http://www.cis-cn.net/</a>
FCC registration number	736346
FCC designation number	CN1372

## 4. TEST CONFIGURATION

### 4.1. Test frequency list

Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
2412	2437	2462
2422	2437	2452

### 4.2. Descriptions of test mode

No	Test mode	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode at lowest, middle and highest channel.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode at lowest, middle and highest channel.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode at lowest, middle and highest channel.
TM4	802.11n(HT40) mode	Keep the EUT in 802.11n(HT40) transmitting mode at lowest, middle and highest channel.
TM5	Link mode	Keep the EUT in WiFi linking mode with AE.

### 4.3. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1	Adapter	Guangdong Sangu Technology Co. Ltd	SG-0501000AU

### 4.4. Test sample information

Type	Sample No.
Engineer sample	CISR250625288-S01
Normal sample	CISR250625288-S02

### 4.5. Environmental conditions

Type	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar

### 4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	1.63dB

2	Peak Output Power	1.34dB
3	Power Spectral Density	1.34dB
4	6dB Bandwidth	0.002%
5	Duty cycle	-
6	Conducted Band Edge and Spurious Emission	1.93dB
7	Radiated Band Edge Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz
8	Radiated Spurious Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

#### 4.7. Equipment Used during the Test

Conducted Emission at AC power line						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Artificial power network	Schwarzbeck	NSLK812 7	8127-01096	2025-01-08	2026-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2025-01-08	2026-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2025-01-08	2026-01-07

6dB Bandwidth						
Maximum Conducted Output Power						
Power Spectral Density						
Emissions in non-restricted frequency bands						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	MXG RF Signal Generator	Agilent	N5181A	MY50145362	2025-01-08	2026-01-07
2	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
3	Vector Signal Generator	Agilent	N5182A	MY50142364	2025-01-08	2026-01-07
4	Power Meter	WCS	WCS-PM	WCSPM23040 5A	2025-01-08	2026-01-07

Emissions in frequency bands (below 1GHz)						
Emissions in frequency bands (above 1GHz)						
Band edge emissions (Radiated)						
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G 40	AP23A806027 0	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP0101 8050	AP23A806028 0	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
5	Spectrum analyzer	Agilent	N9020A	MY50530263	2025-01-08	2026-01-07
6	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
7	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023-01-09	2026-01-08
8	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2026-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2023-01-09	2026-01-08

10	RF Cable	Tonscend	Cable 1	/	2025-01-08	2026-01-07
11	RF Cable	Tonscend	Cable 2	/	2025-01-08	2026-01-07
12	RF Cable	SKET	Cable 3	/	2025-01-08	2026-01-07
13	L.I.S.N.#1	Schwarzbeck	NSLK812 7	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	/	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2025-01-08	2026-01-07
17	Variable-frequency power source	Pinhong	PH1110	/	2025-01-08	2026-01-07
18	6dB Attenuator	SKET	DC-6G	/	2025-01-08	2026-01-07
19	Antenna tower	SKT	Bk-4AT- BS	AT202104010 1-V1	2025-01-08	2026-01-07

## **5. TEST RESULTS**

### **5.1. Evaluation Results (Evaluation)**

#### **5.1.1. Antenna Requirement**

Test Requirement:	Refer to 47 CFR Part 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.
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#### **5.1.1.1. Test Result**

Pass

#### **5.1.1.2. Conclusion:**

The EUT antenna is PCB(3.57dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.

## 5.2. Radio Spectrum Matter Test Results (RF)

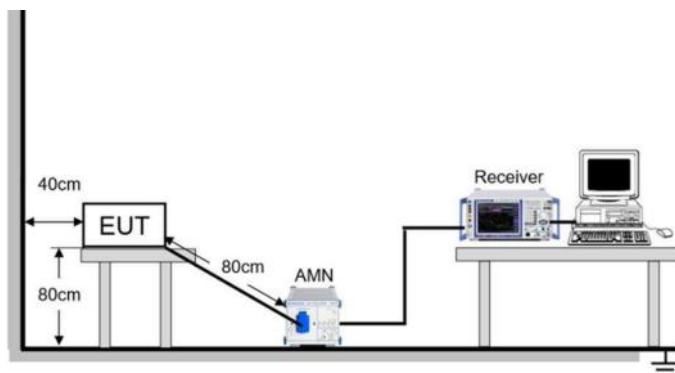
### 5.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a). Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).			
Test Limit:	Frequency of emission (MHz)		Conducted limit (dB $\mu$ V)	
			Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
5-30		60	50	
*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2			
Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was setup according to ANSI C63.10 requirements.</li> <li>2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.</li> <li>3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.</li> <li>4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs)</li> <li>5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.</li> <li>6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.</li> <li>7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.</li> <li>8. During the above scans, the emissions were maximized by cable manipulation.</li> </ol>			

#### 5.2.1.1. E.U.T. Operation

Operating Environment:					
Temperature:	22 °C	Humidity:	56.7 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

#### 5.2.1.2. Test Setup Diagram



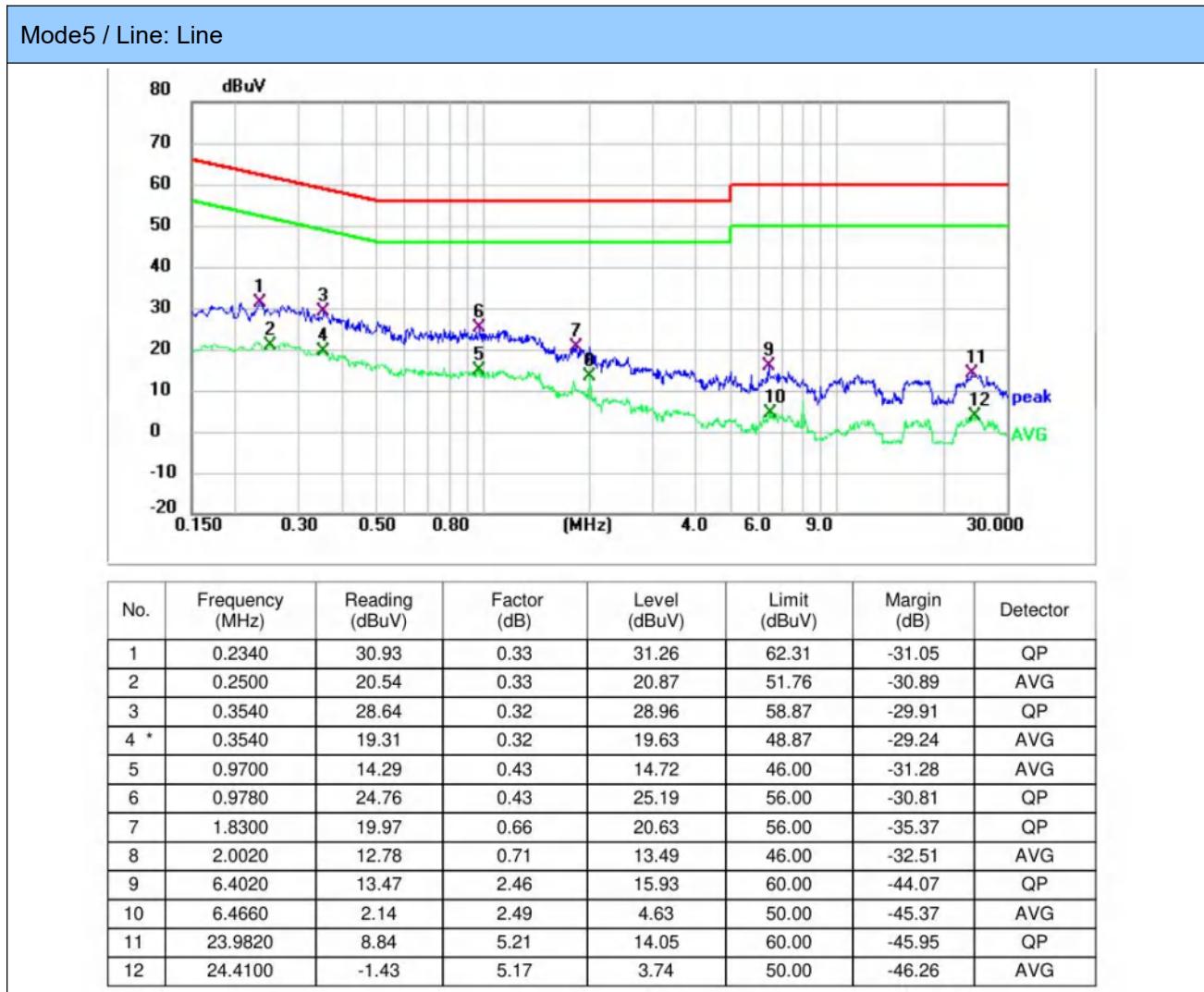
### 5.2.1.3. Test Result

Pass

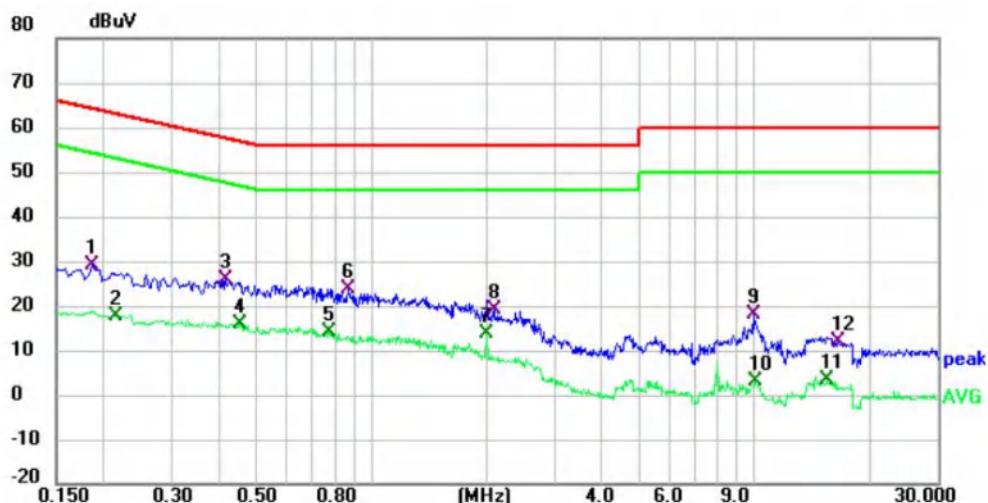
### 5.2.1.4. Test Data

Note:

Have pre-scan all test mode, found TM5 mode which it was worst case, so only show the worst case's data on this report.



## Mode5 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	28.64	0.32	28.96	64.21	-35.25	QP
2	0.2140	17.41	0.32	17.73	53.05	-35.32	AVG
3	0.4140	25.70	0.35	26.05	57.57	-31.52	QP
4 *	0.4500	15.62	0.36	15.98	46.88	-30.90	AVG
5	0.7780	13.80	0.41	14.21	46.00	-31.79	AVG
6	0.8740	23.27	0.42	23.69	56.00	-32.31	QP
7	2.0020	13.15	0.71	13.86	46.00	-32.14	AVG
8	2.0940	18.28	0.74	19.02	56.00	-36.98	QP
9	9.9460	14.59	3.60	18.19	60.00	-41.81	QP
10	10.0219	-0.60	3.62	3.02	50.00	-46.98	AVG
11	15.4500	-2.31	5.74	3.43	50.00	-46.57	AVG
12	16.6259	6.21	5.80	12.01	60.00	-47.99	QP

## Note:

- 1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
- 2). Margin = Result - Limit

### 5.2.2. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	<p>11.8.1 Option 1  The steps for the first option are as follows:</p> <ul style="list-style-type: none"> <li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</li> <li>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.</li> </ul> <p>11.8.2 Option 2  The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW <math>\geq 3 \times \text{RBW}</math>, and peak detector with maximum hold) is implemented by the instrumentation function.  When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be <math>\geq 6</math> dB.</p>

#### 5.2.2.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

#### 5.2.2.2. Test Setup Diagram



#### 5.2.2.3. Test Result

Pass

#### 5.2.2.4. Test Data

Please Refer to Appendix for Details.

### 5.2.3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

#### 5.2.3.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

#### 5.2.3.2. Test Setup Diagram



#### 5.2.3.3. Test Result

Pass

#### 5.2.3.4. Test Data

Please Refer to Appendix for Details.

### 5.2.4. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

#### 5.2.4.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

#### 5.2.4.2. Test Setup Diagram



#### 5.2.4.3. Test Result

Pass

#### 5.2.4.4. Test Data

Please Refer to Appendix for Details.

### 5.2.5. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d). In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

#### 5.2.5.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	55.1 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4				
Final test mode:	TM1, TM2, TM3, TM4				

#### 5.2.5.2. Test Setup Diagram



#### 5.2.5.3. Test Result

Pass

#### 5.2.5.4. Test Data

Please Refer to Appendix for Details.

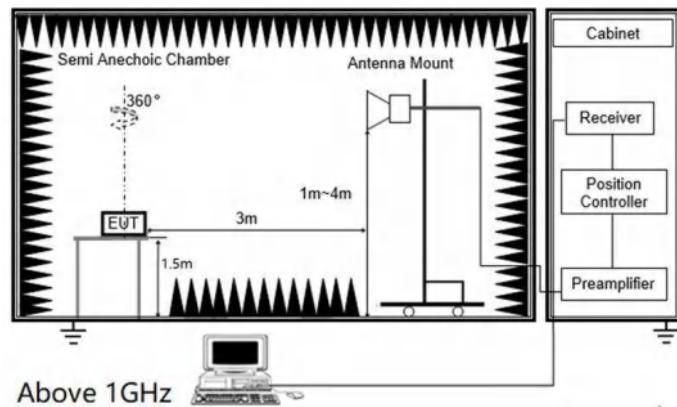
### 5.2.6. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d). In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>			
Test Method:	ANSI C63.10-2020 section 6.10		
Procedure:	<ol style="list-style-type: none"> <li>1. EUT was setup and tested according to ANSI C63.10 .</li> <li>2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.</li> <li>3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.</li> <li>4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.</li> <li>5. Use the following spectrum analyzer settings: <ul style="list-style-type: none"> <li>a) Span shall wide enough to fully capture the emission being measured</li> <li>b) Set RBW=1MHz, VBW=3MHz for &gt;1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement</li> </ul> </li> </ol> <p>For average measurement: use duty cycle correction factor method (DCCF), Averager level = Peak level + DCCF</p>		

#### 5.2.6.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	56.2 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

### 5.2.6.2. Test Setup Diagram



### 5.2.6.3. Test Result

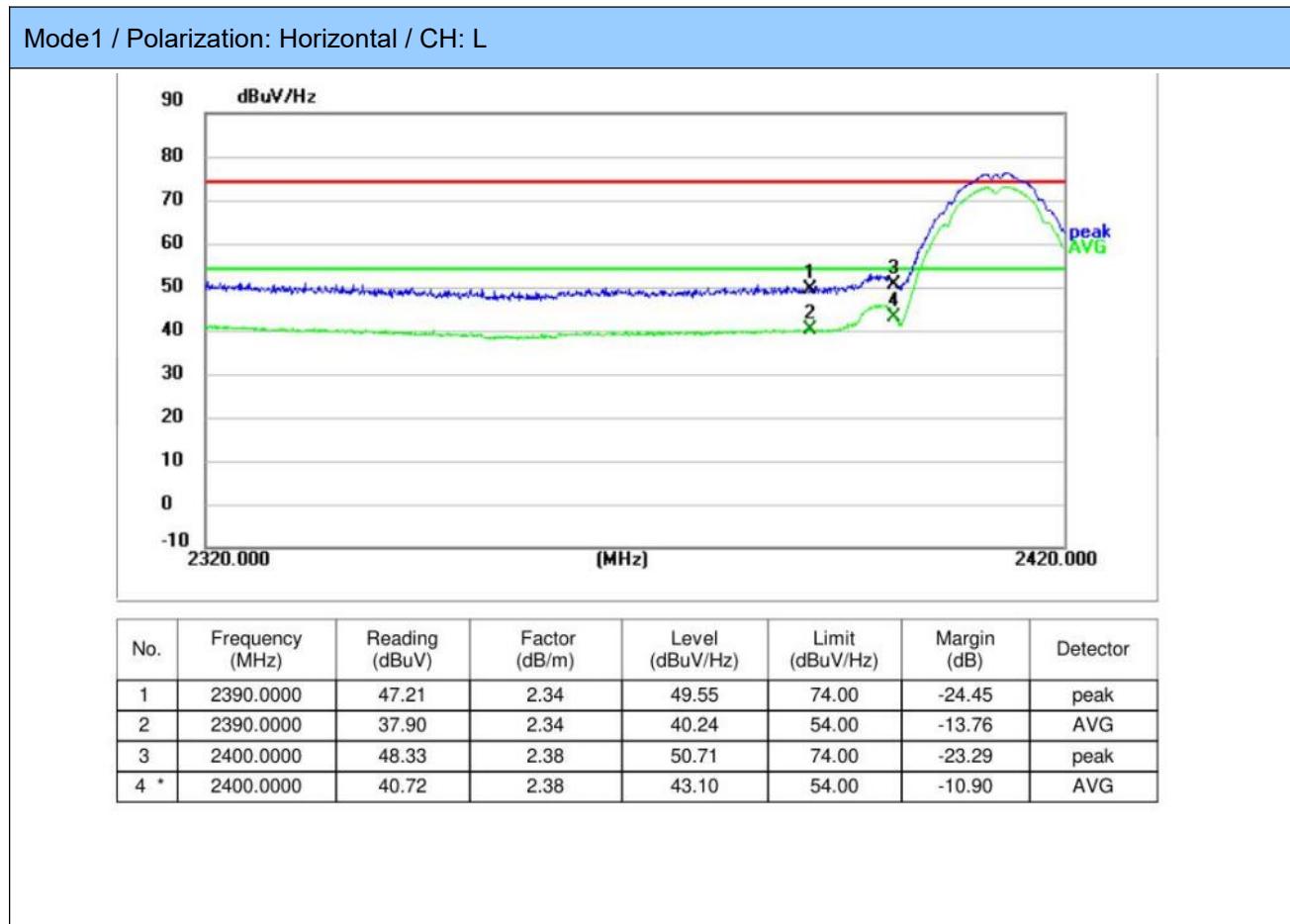
Pass

#### 5.2.6.4. Test Data

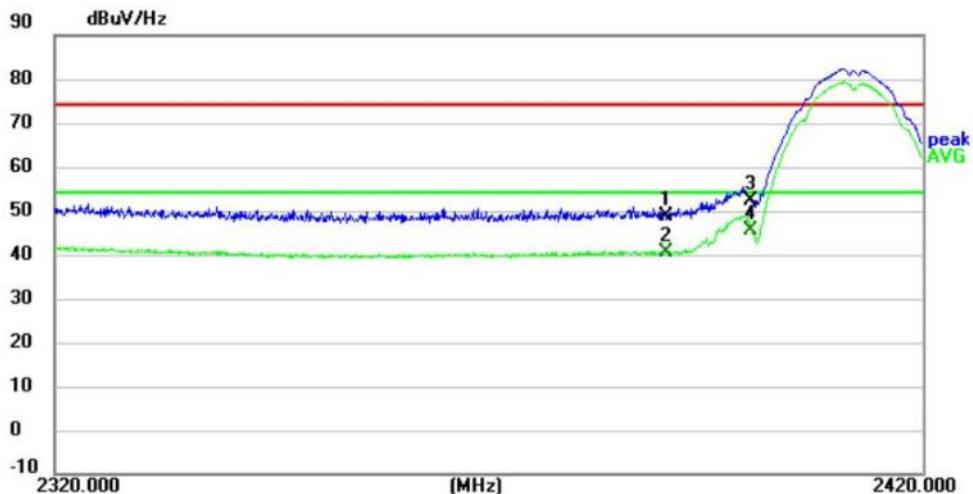
Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit - Level
- 3) Average measurement was not performed if peak level is lower than average limit
- 4) Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.
- 5) The other emission levels were very low against the limit.

Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.

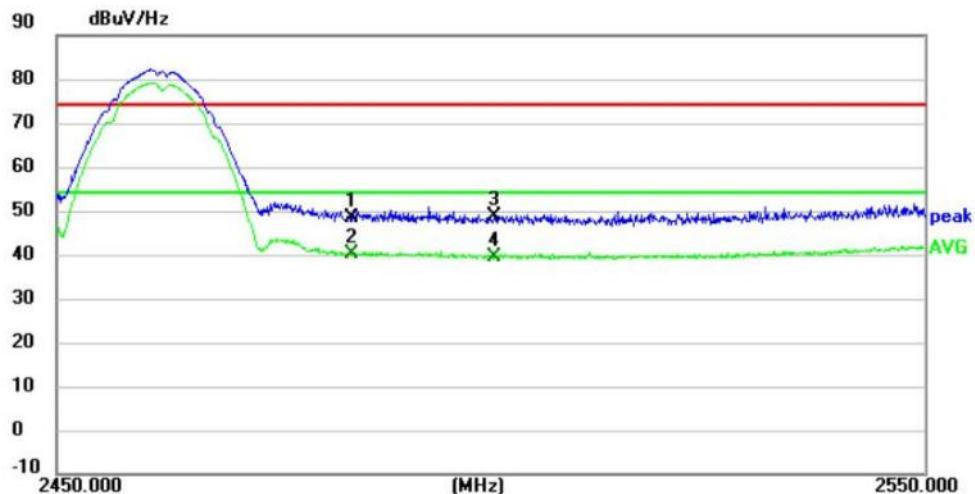


## Mode1 / Polarization: Vertical / CH: L



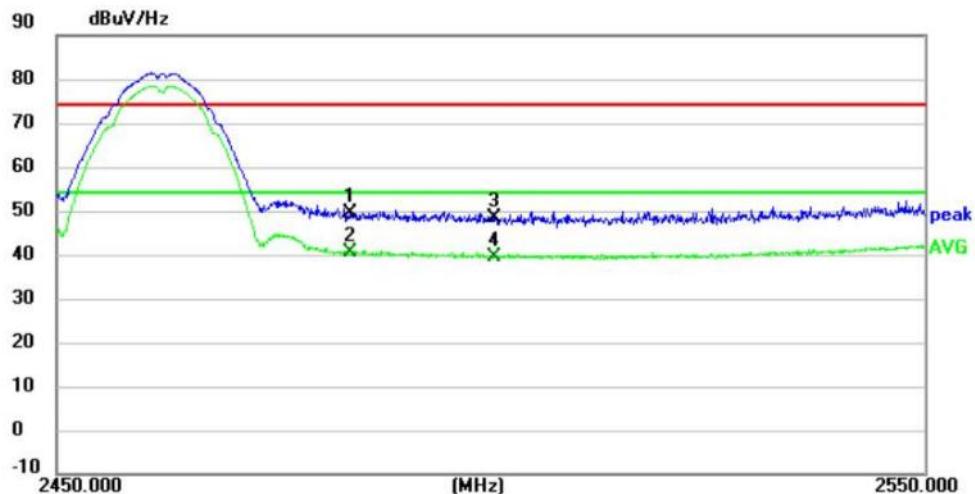
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	46.29	2.34	48.63	74.00	-25.37	peak
2	2390.0000	38.06	2.34	40.40	54.00	-13.60	AVG
3	2400.0000	49.80	2.38	52.18	74.00	-21.82	peak
4 *	2400.0000	43.02	2.38	45.40	54.00	-8.60	AVG

## Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	45.57	2.66	48.23	74.00	-25.77	peak
2 *	2483.5000	37.50	2.66	40.16	54.00	-13.84	AVG
3	2500.0000	46.08	2.80	48.88	74.00	-25.12	peak
4	2500.0000	36.70	2.80	39.50	54.00	-14.50	AVG

## Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	46.72	2.66	49.38	74.00	-24.62	peak
2 *	2483.5000	37.82	2.66	40.48	54.00	-13.52	AVG
3	2500.0000	45.61	2.80	48.41	74.00	-25.59	peak
4	2500.0000	36.52	2.80	39.32	54.00	-14.68	AVG

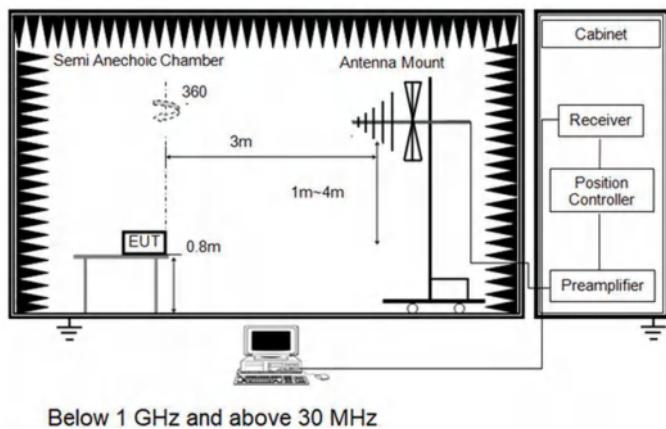
### 5.2.7. Radiated Spurious Emission (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d). In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>			
Test Method:	ANSI C63.10-2020 section 6.6.4		
Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was setup and tested according to ANSI C63.10.</li> <li>2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.</li> <li>3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.</li> <li>5. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>6. Use the following spectrum analyzer settings           <ol style="list-style-type: none"> <li>a) Span shall wide enough to fully capture the emission being measured;</li> <li>b) RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;</li> </ol> <p>If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.</p> </li> </ol>		

#### 5.2.7.1. E.U.T. Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	56.2 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

### 5.2.7.2. Test Setup Diagram



### 5.2.7.3. Test Result

Pass

### 5.2.7.4. Test Data

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit – Level
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.
- 4) The other emission levels were very low against the limit.
- 5) This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.

#### For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

#### For 30 MHz ~ 1000 MHz

Have pre-scan all test mode, found TM1 mode CH00 which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.8444	53.05	-30.52	22.53	40.00	-17.47	QP
2 *	49.7066	59.67	-29.12	30.55	40.00	-9.45	QP
3	106.7587	54.64	-30.69	23.95	43.50	-19.55	QP
4	200.6880	53.79	-29.83	23.96	43.50	-19.54	QP
5	413.2706	51.57	-24.54	27.03	46.00	-18.97	QP
6	699.3043	47.75	-16.87	30.88	46.00	-15.12	QP

## Mode1 / Polarization: Vertical / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	48.6720	56.21	-29.17	27.04	40.00	-12.96	QP
2 *	75.1821	63.22	-33.92	29.30	40.00	-10.70	QP
3	135.5061	54.98	-34.17	20.81	43.50	-22.69	QP
4	196.5098	56.59	-30.17	26.42	43.50	-17.08	QP
5	440.1961	49.71	-23.80	25.91	46.00	-20.09	QP
6	793.3960	47.01	-16.61	30.40	46.00	-15.60	QP

## Note:

1) For 9 kHz ~ 30 MHz Measurement

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

2) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor

3) Margin = Limit – Level

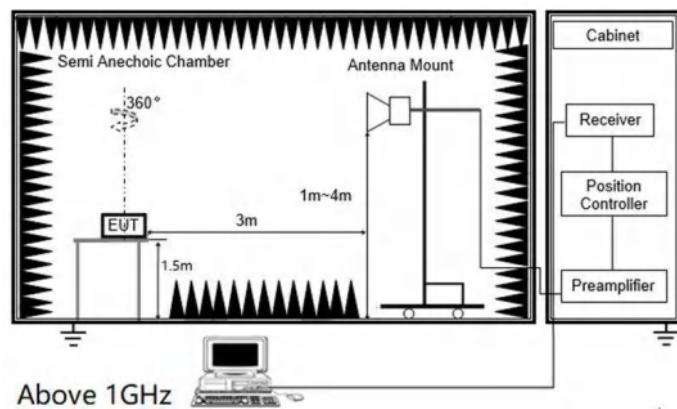
### 5.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`			
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	
	0.009-0.490	2400/F(kHz)	300	
	0.490-1.705	24000/F(kHz)	30	
	1.705-30.0	30	30	
	30-88	100 **	3	
	88-216	150 **	3	
	216-960	200 **	3	
	Above 960	500	3	
<p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>				
Test Method:	ANSI C63.10-2020 section 6.6.4			
Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was setup and tested according to ANSI C63.10.</li> <li>2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.</li> <li>3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.</li> <li>5. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>6. Use the following spectrum analyzer settings <ul style="list-style-type: none"> <li>a) Span shall wide enough to fully capture the emission being measured;</li> <li>b) Set RBW=1MHz, VBW=3MHz for &gt;1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement</li> </ul> For average measurement: use duty cycle correction factor method (DCCF)Averager level = Peak level + DCCF </li> </ol>			

#### 5.2.8.1. E.U.T Operation

Operating Environment:					
Temperature:	22.1 °C	Humidity:	56.2 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3, TM4, TM5				
Final test mode:	TM1, TM2, TM3, TM4, TM5				

### 5.2.8.2. Test Setup Diagram

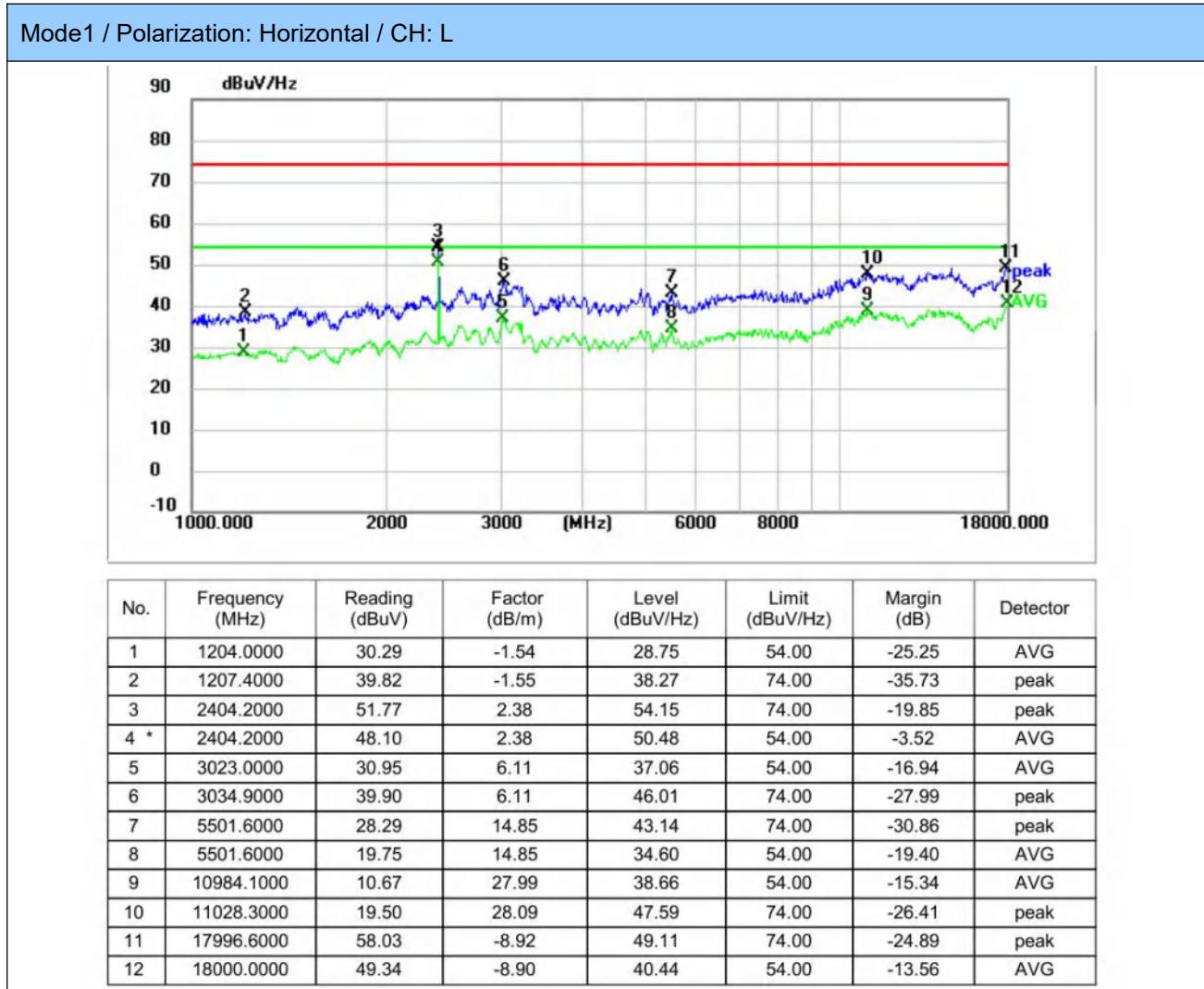


### 5.2.8.3. Test Result

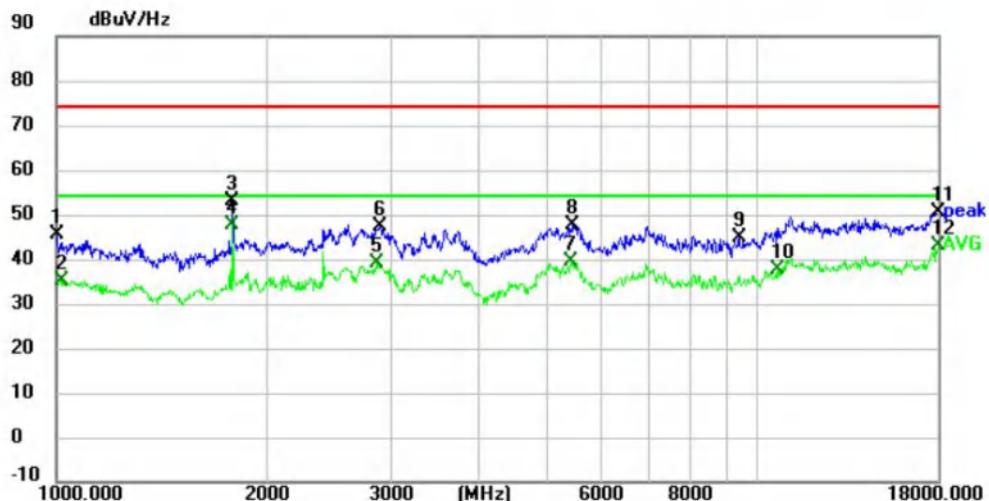
Pass

### 5.2.8.4. Test Data

Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.

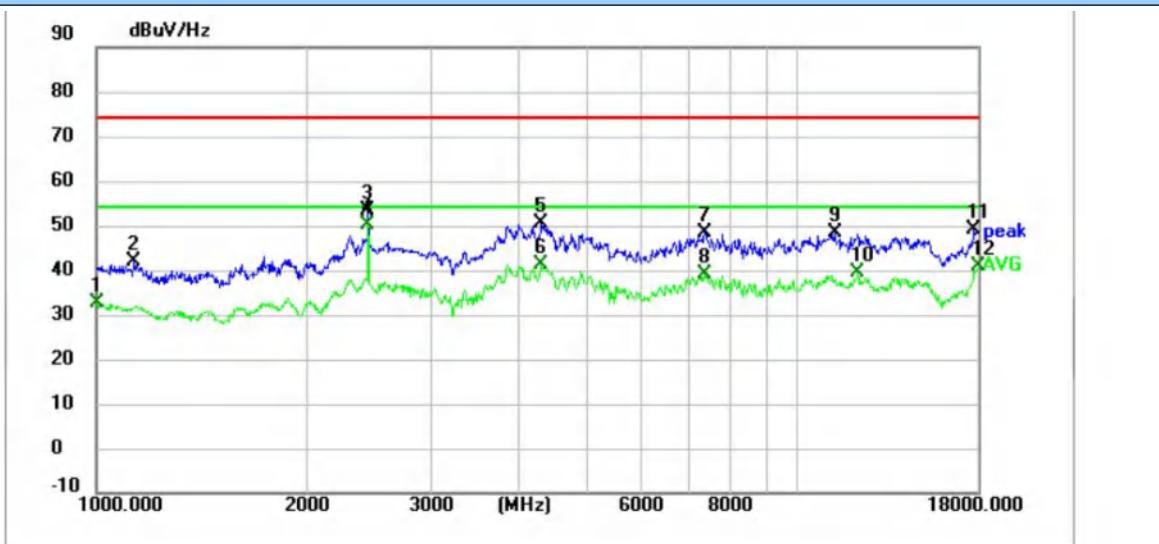


## Mode1 / Polarization: Vertical / CH: L



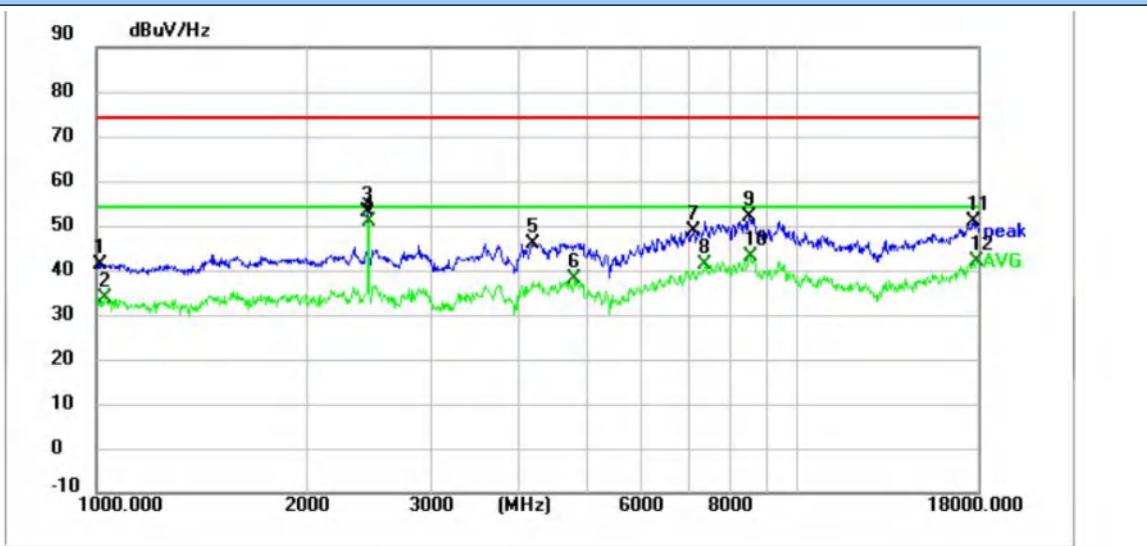
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1000.0000	47.66	-2.00	45.66	74.00	-28.34	peak
2	1020.4000	37.14	-2.01	35.13	54.00	-18.87	AVG
3	1785.4000	53.39	-0.27	53.12	74.00	-20.88	peak
4 *	1785.4000	48.05	-0.27	47.78	54.00	-6.22	AVG
5	2861.5000	33.68	5.52	39.20	54.00	-14.80	AVG
6	2893.8000	41.62	5.82	47.44	74.00	-26.56	peak
7	5421.7000	29.98	9.57	39.55	54.00	-14.45	AVG
8	5452.3000	33.37	14.25	47.62	74.00	-26.38	peak
9	9399.7000	20.39	24.26	44.65	74.00	-29.35	peak
10	10683.2000	10.91	26.82	37.73	54.00	-16.27	AVG
11	18000.0000	59.44	-8.90	50.54	74.00	-23.46	peak
12	18000.0000	52.10	-8.90	43.20	54.00	-10.80	AVG

## Mode1 / Polarization: Horizontal / CH: M



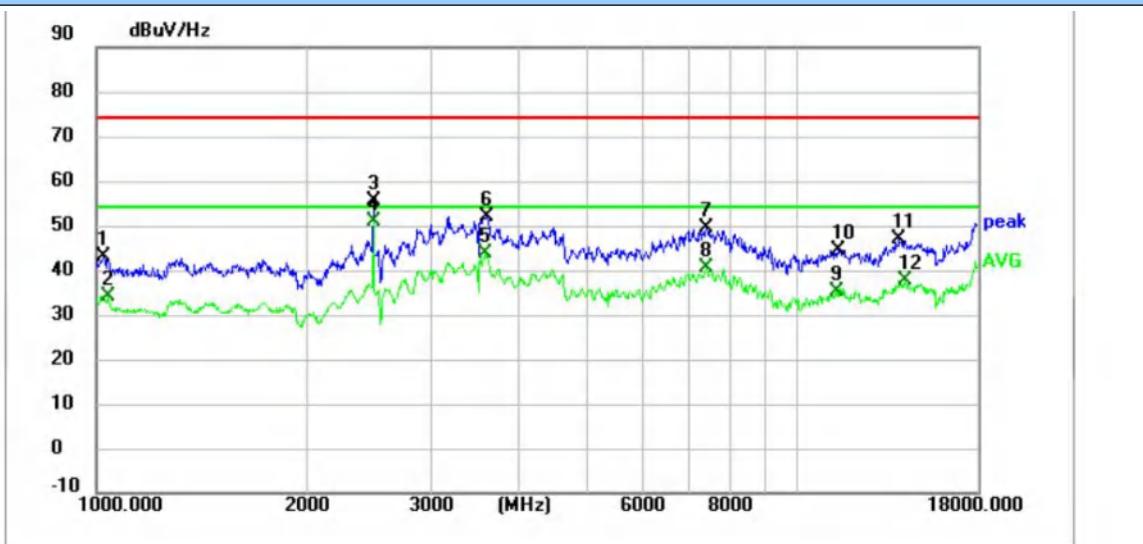
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1000.0000	34.79	-2.00	32.79	54.00	-21.21	AVG
2	1134.3000	43.59	-1.69	41.90	74.00	-32.10	peak
3	2441.6000	51.12	2.39	53.51	74.00	-20.49	peak
4 *	2441.6000	47.69	2.39	50.08	54.00	-3.92	AVG
5	4316.7000	42.57	7.99	50.56	74.00	-23.44	peak
6	4316.7000	33.29	7.99	41.28	54.00	-12.72	AVG
7	7386.9000	26.10	22.12	48.22	74.00	-25.78	peak
8	7386.9000	16.96	22.12	39.08	54.00	-14.92	AVG
9	11271.4000	20.14	28.16	48.30	74.00	-25.70	peak
10	12175.8000	11.48	27.82	39.30	54.00	-14.70	AVG
11	17836.8000	58.72	-9.78	48.94	74.00	-25.06	peak
12	18000.0000	49.96	-8.90	41.06	54.00	-12.94	AVG

## Mode1 / Polarization: Vertical / CH: M



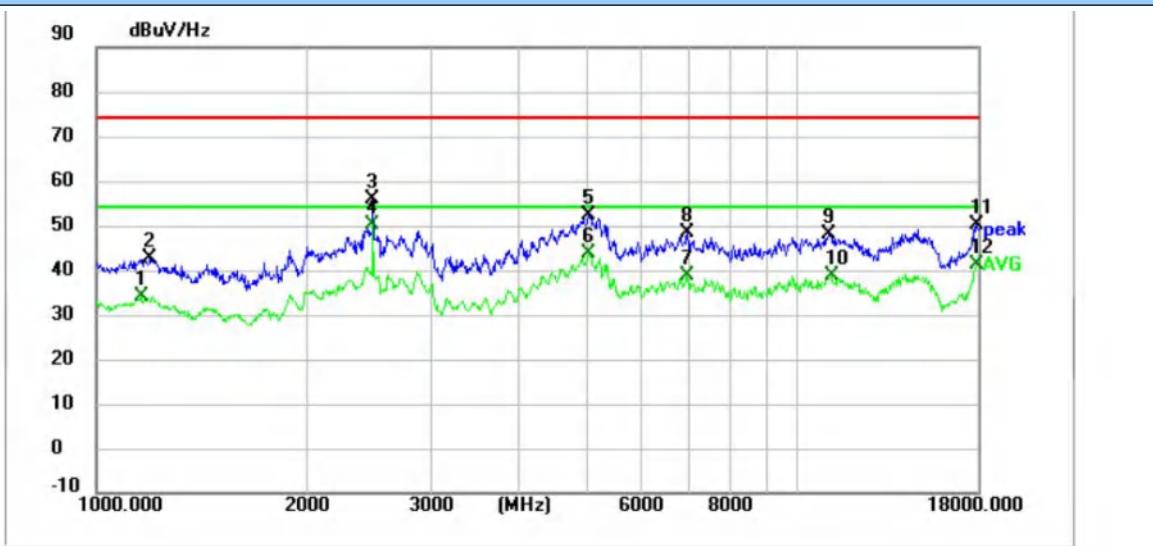
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1013.6000	43.31	-2.01	41.30	74.00	-32.70	peak
2	1030.6000	35.88	-2.02	33.86	54.00	-20.14	AVG
3	2441.6000	50.74	2.39	53.13	74.00	-20.87	peak
4 *	2443.3000	48.58	2.39	50.97	54.00	-3.03	AVG
5	4197.7000	38.07	7.90	45.97	74.00	-28.03	peak
6	4804.6000	27.57	10.62	38.19	54.00	-15.81	AVG
7	7106.4000	27.22	21.58	48.80	74.00	-25.20	peak
8	7388.6000	19.16	22.12	41.28	54.00	-12.72	AVG
9	8534.4000	29.05	22.85	51.90	74.00	-22.10	peak
10	8546.3000	20.16	22.85	43.01	54.00	-10.99	AVG
11	17779.0000	61.12	-10.13	50.99	74.00	-23.01	peak
12	17994.9000	50.92	-8.93	41.99	54.00	-12.01	AVG

## Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1026.3813	45.11	-2.02	43.09	74.00	-30.91	peak
2	1041.3370	36.03	-2.03	34.00	54.00	-20.00	AVG
3	2480.5621	53.04	2.64	55.68	74.00	-18.32	peak
4 *	2480.5621	48.15	2.64	50.79	54.00	-3.21	AVG
5	3582.0306	37.29	6.33	43.62	54.00	-10.38	AVG
6	3592.4094	45.59	6.34	51.93	74.00	-22.07	peak
7	7404.8810	27.15	22.14	49.29	74.00	-24.71	peak
8	7404.8810	18.26	22.14	40.40	54.00	-13.60	AVG
9	11329.9465	7.04	28.20	35.24	54.00	-18.76	AVG
10	11395.6975	16.08	28.30	44.38	74.00	-29.62	peak
11	13913.6610	57.88	-10.94	46.94	74.00	-27.06	peak
12	14198.3253	48.35	-10.52	37.83	54.00	-16.17	AVG

## Mode1 / Polarization: Vertical / CH: H



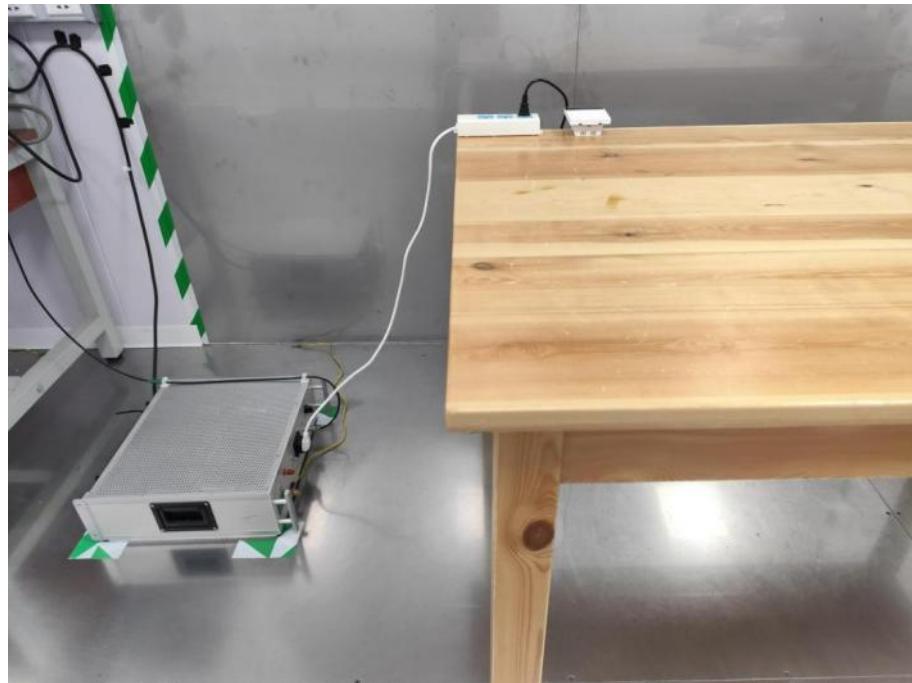
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1161.5000	35.69	-1.67	34.02	54.00	-19.98	AVG
2	1193.8000	44.07	-1.56	42.51	74.00	-31.49	peak
3	2482.4000	53.11	2.66	55.77	74.00	-18.23	peak
4 *	2482.4000	47.44	2.66	50.10	54.00	-3.90	AVG
5	5039.2000	39.44	12.90	52.34	74.00	-21.66	peak
6	5039.2000	30.85	12.90	43.75	54.00	-10.25	AVG
7	6944.9000	17.64	20.94	38.58	54.00	-15.42	AVG
8	6958.5000	27.30	21.03	48.33	74.00	-25.67	peak
9	11070.8000	19.92	28.06	47.98	74.00	-26.02	peak
10	11150.7000	10.80	28.12	38.92	54.00	-15.08	AVG
11	17976.2000	59.13	-9.02	50.11	74.00	-23.89	peak
12	17976.2000	50.33	-9.02	41.31	54.00	-12.69	AVG

## Note:

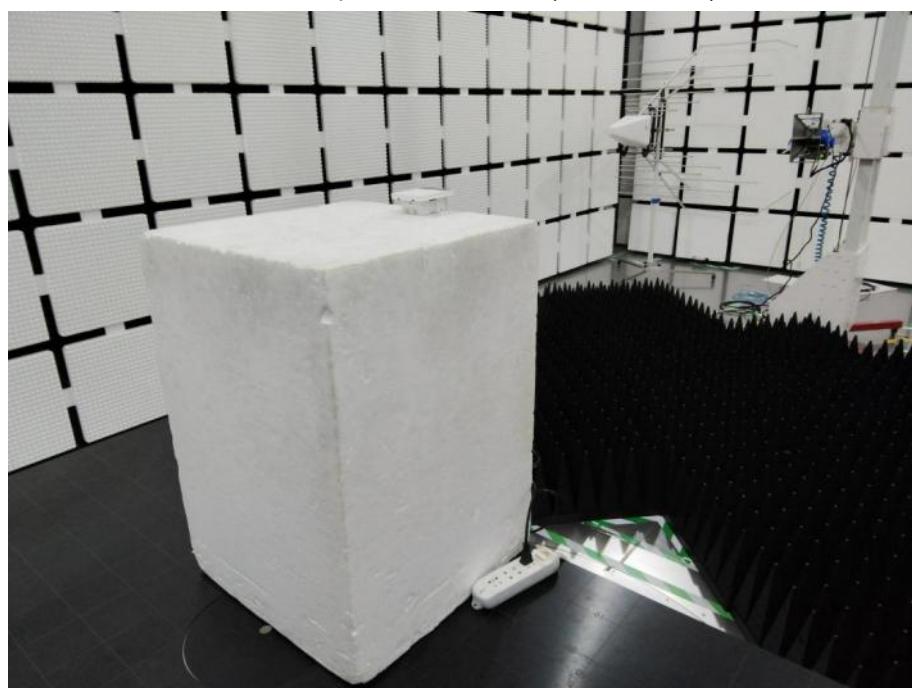
- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit – Level
- 3) Average measurement was not performed if peak level is lower than average limit (54dBuV/m) for above 1GHz.

## **6. TEST SETUP PHOTOS**

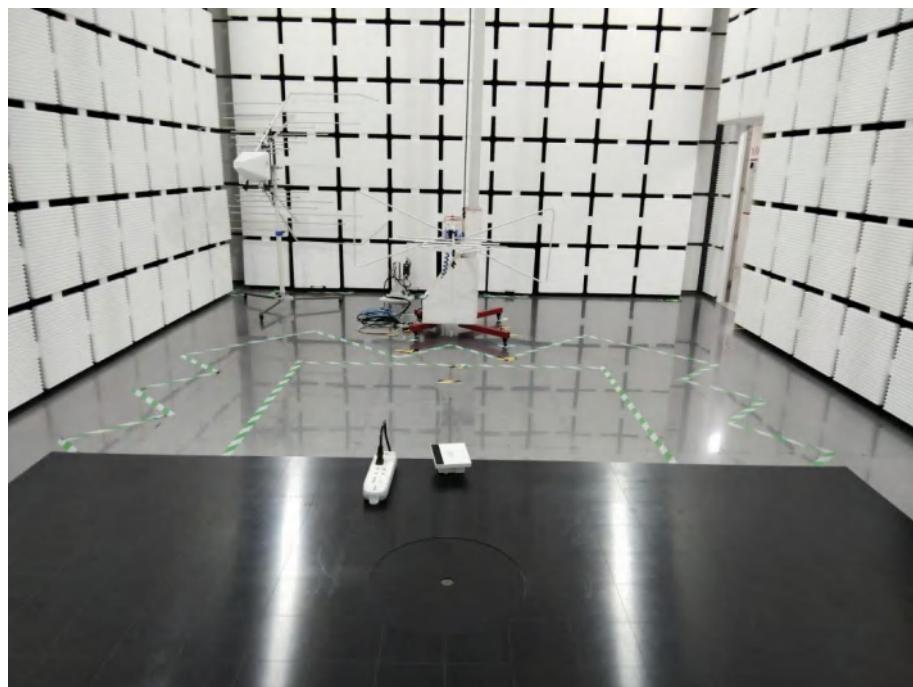
Conducted Emission at AC power line



Radiated band edge emission  
Radiated Spurious Emission (Above 1GHz)

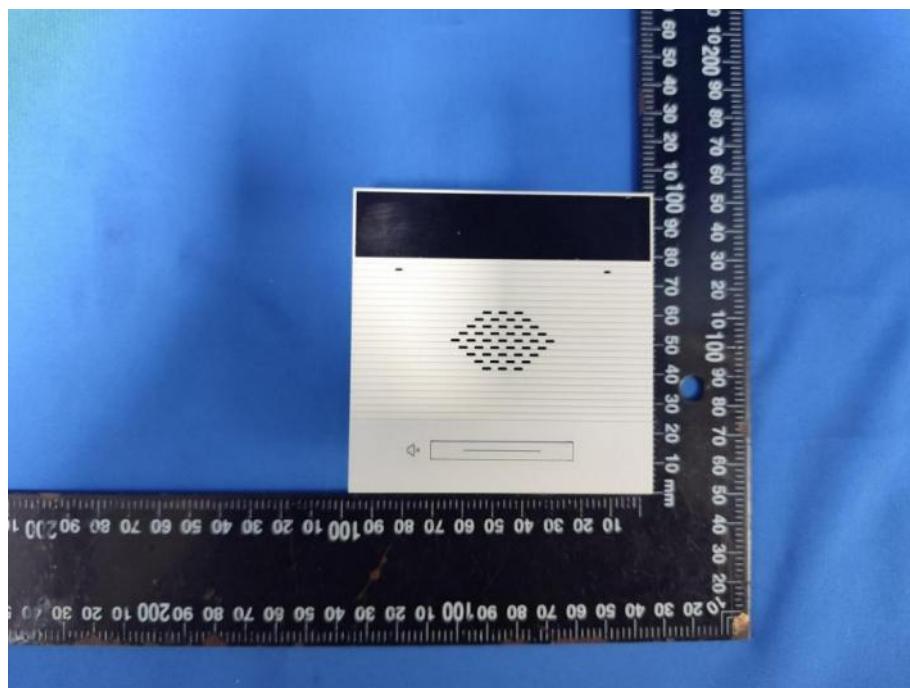


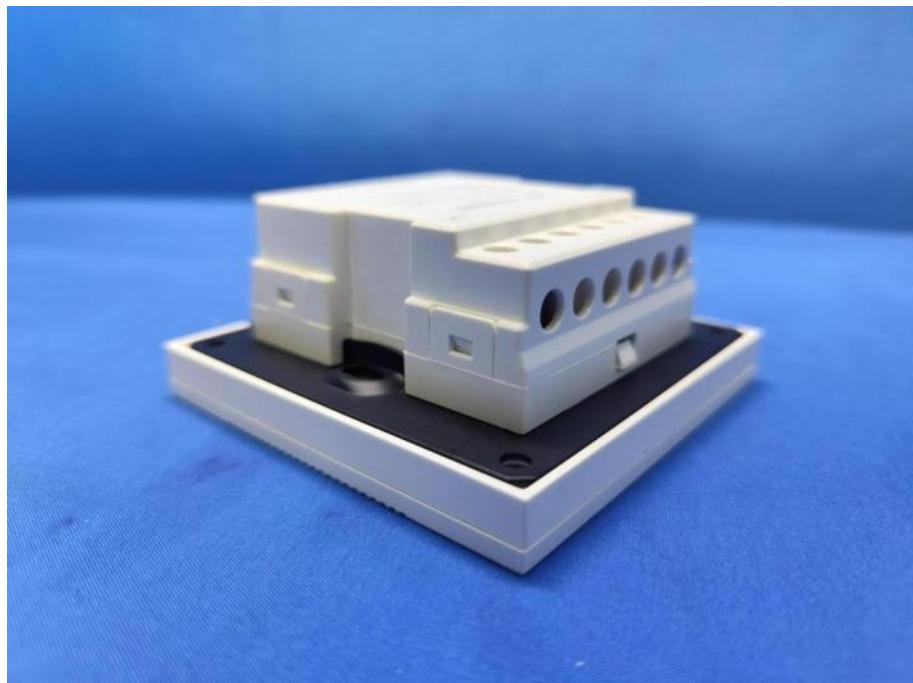
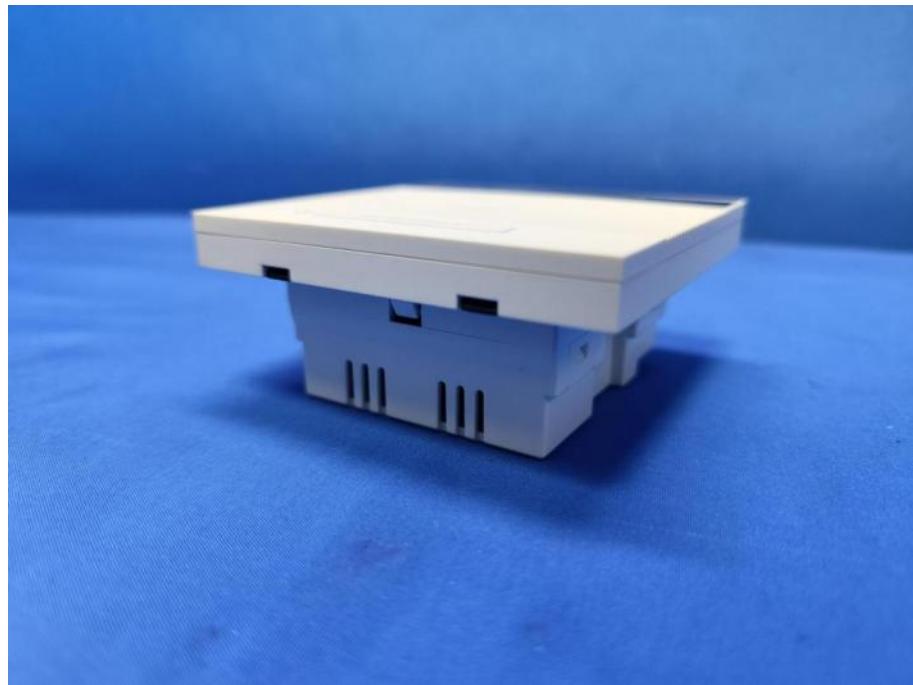
Radiated Spurious Emission (below 1GHz)



## **7. EXTERNAL AND INTERNAL PHOTOS**

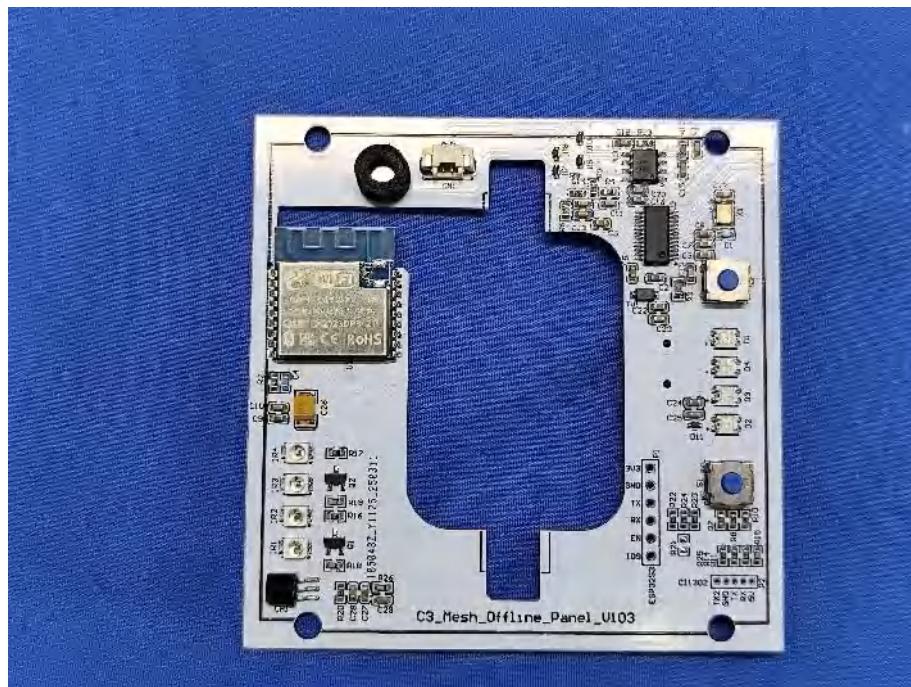
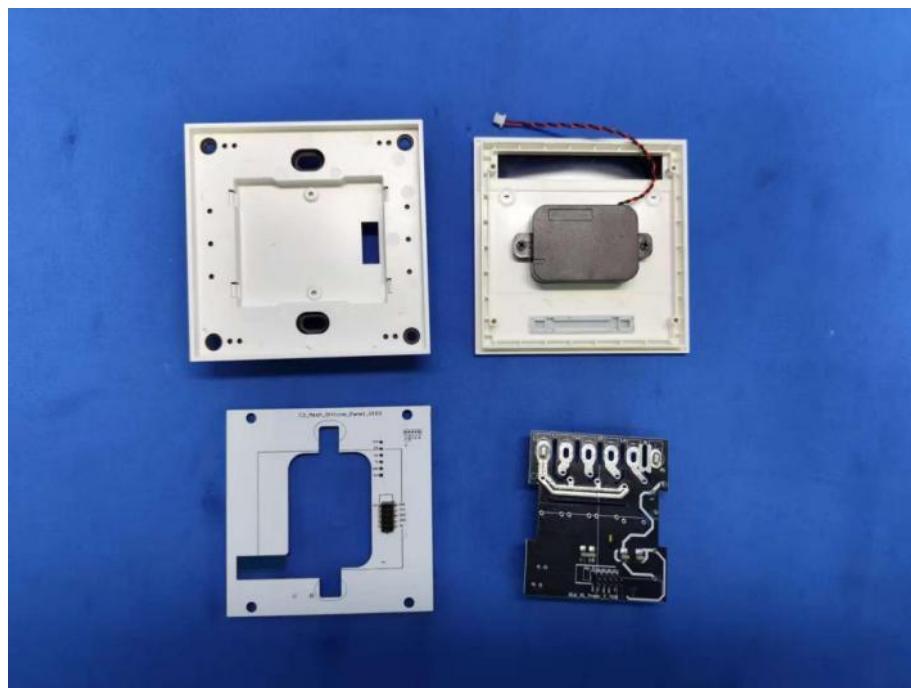
### **7.1. External Photos**

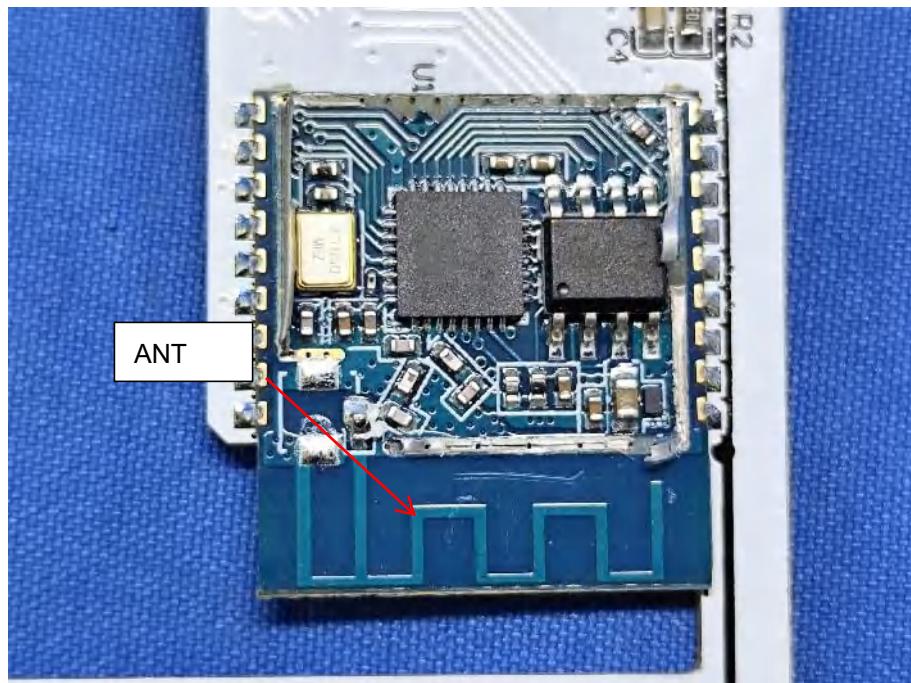
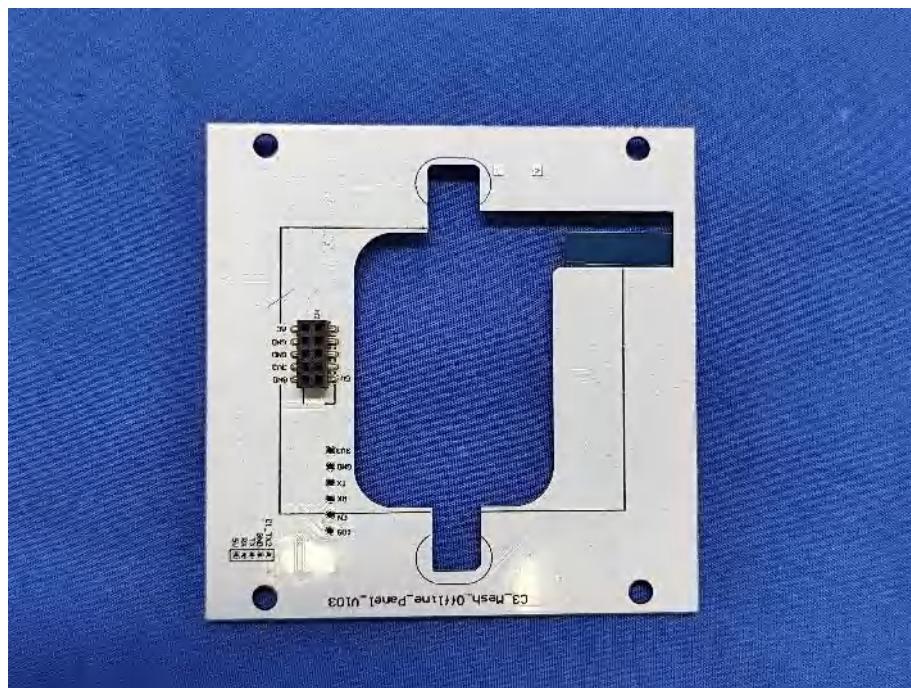


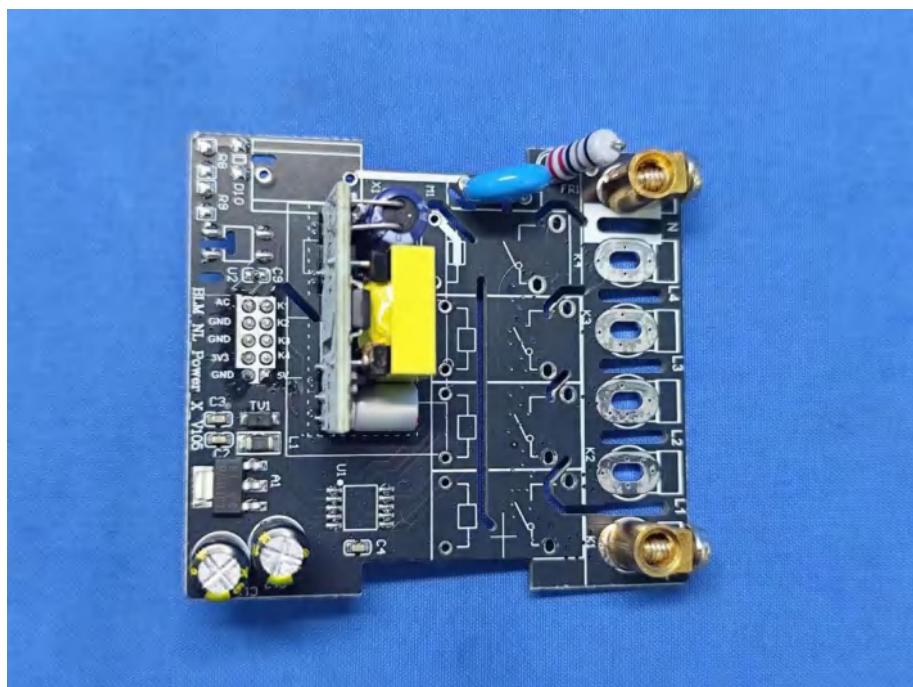
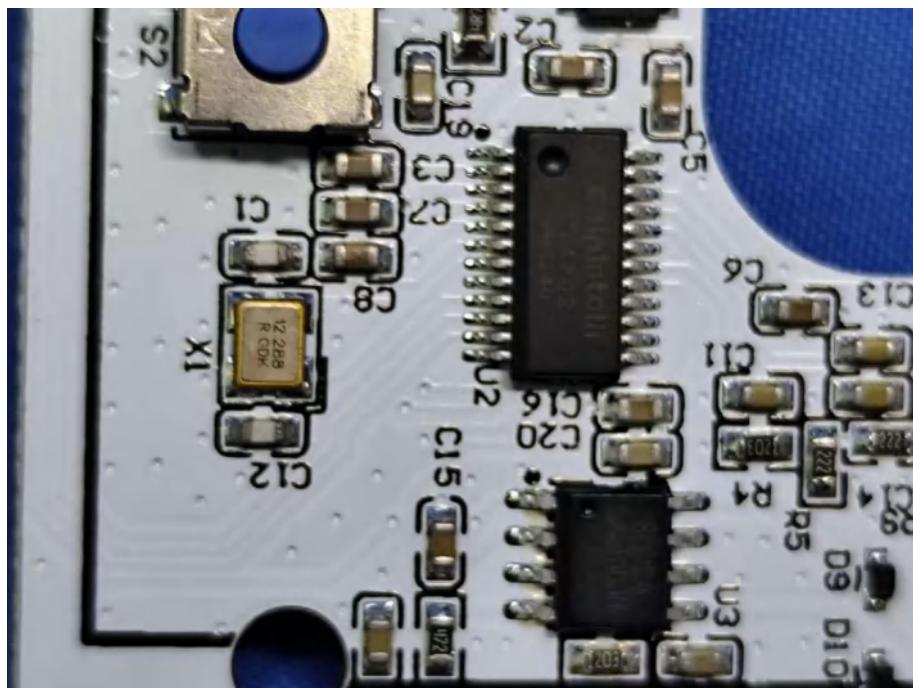




## 7.2. Internal Photos







## **8. Appendix Report**

# Appendix Report

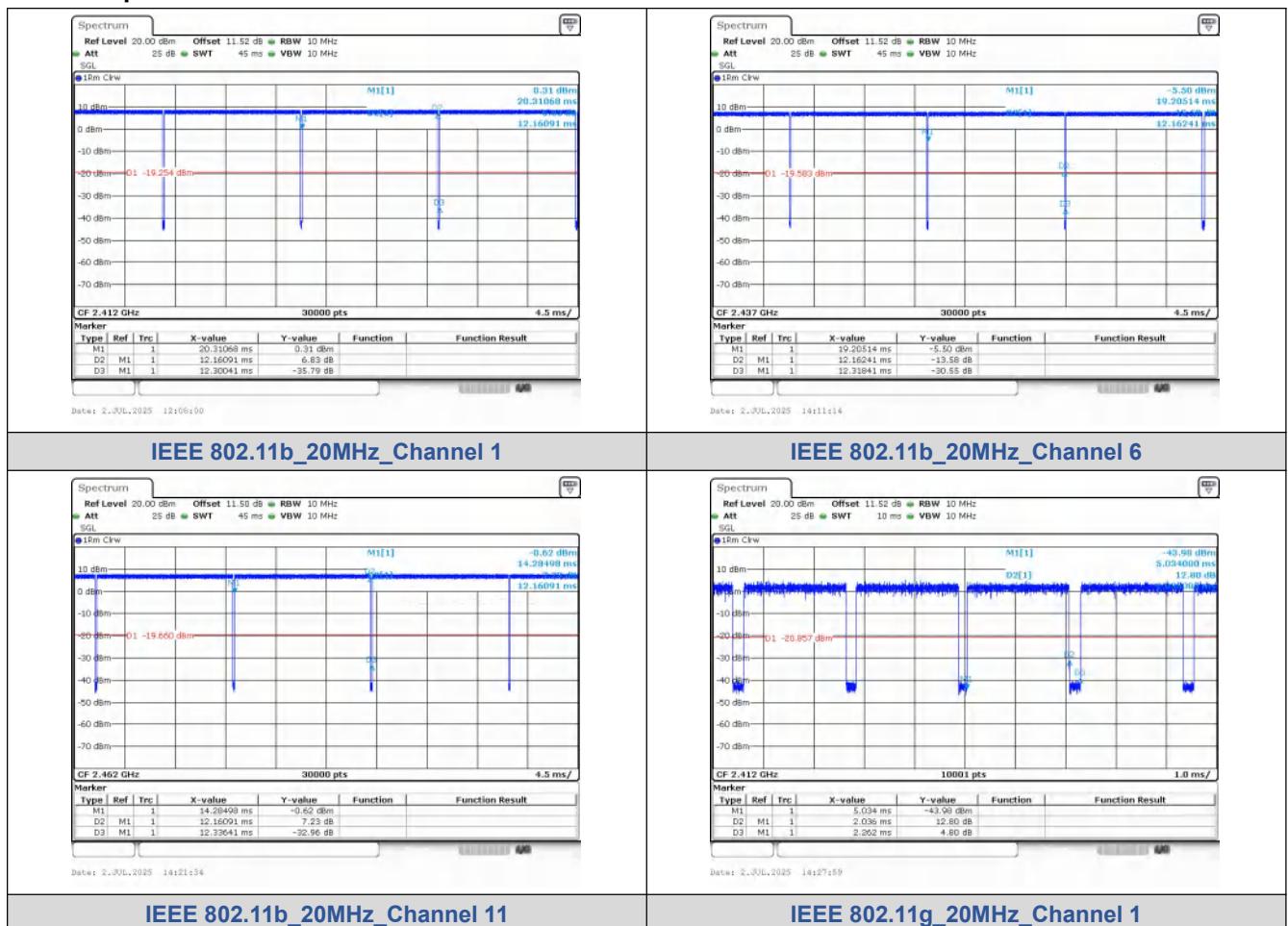
Project No.:	CISR250625288
Test Engineer:	James Wang
Supervised by:	Rory Huang

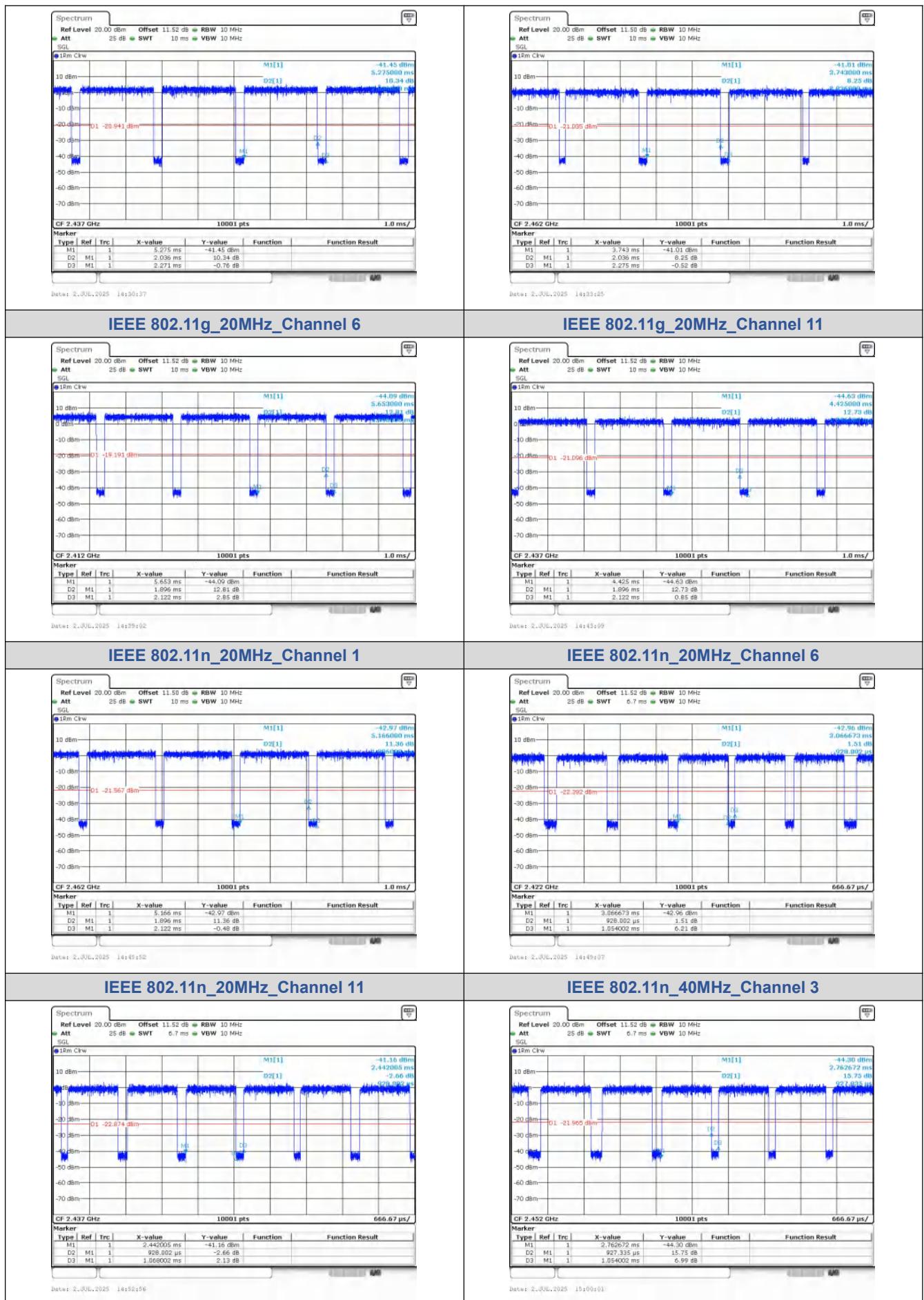
## 8.1. Duty Cycle

### Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	12.161	12.300	98.87	0.9887	0.0494	0.0822
		6		12.162	12.318	98.73	0.9873	0.0555	0.0822
		11		12.161	12.336	98.58	0.9858	0.0621	0.0822
	MCS 0	1		2.036	2.262	90.01	0.9001	0.4571	0.4912
		6		2.036	2.271	89.65	0.8965	0.4745	0.4912
		11		2.036	2.275	89.49	0.8949	0.4823	0.4912
IEEE 802.11n_20	1	1	1	1.896	2.122	89.35	0.8935	0.4891	0.5274
		6		1.896	2.122	89.35	0.8935	0.4891	0.5274
		11		1.896	2.122	89.35	0.8935	0.4891	0.5274
	3			0.928	1.054	88.05	0.8805	0.5527	1.0776
IEEE 802.11n_40	MCS 0	6	1	0.928	1.068	86.89	0.8689	0.6103	1.0776
		9		0.927	1.054	87.98	0.8798	0.5562	1.0787

### Test Graphs





**IEEE 802.11n\_40MHz\_Channel 6**

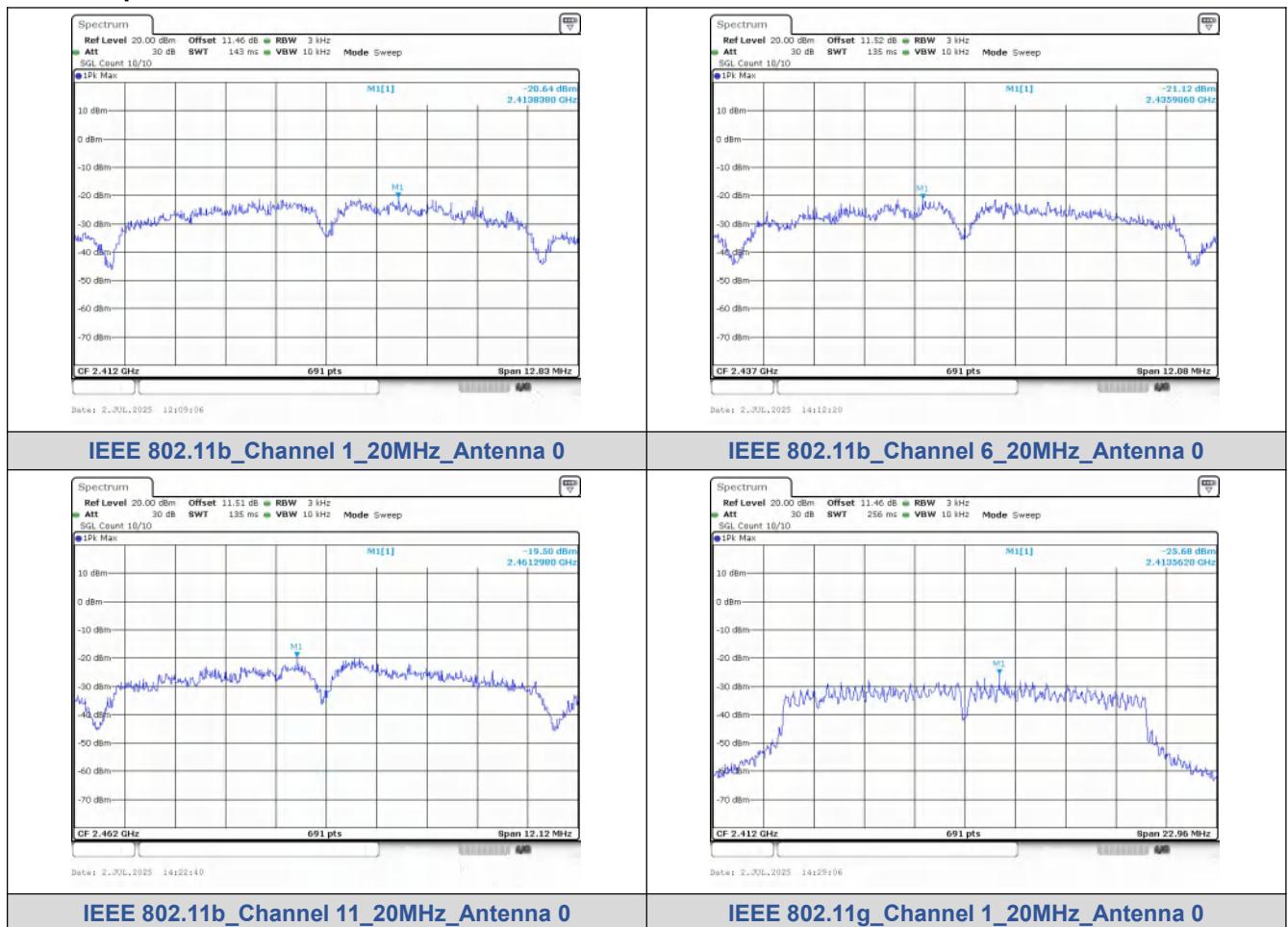
**IEEE 802.11n\_40MHz\_Channel 9**

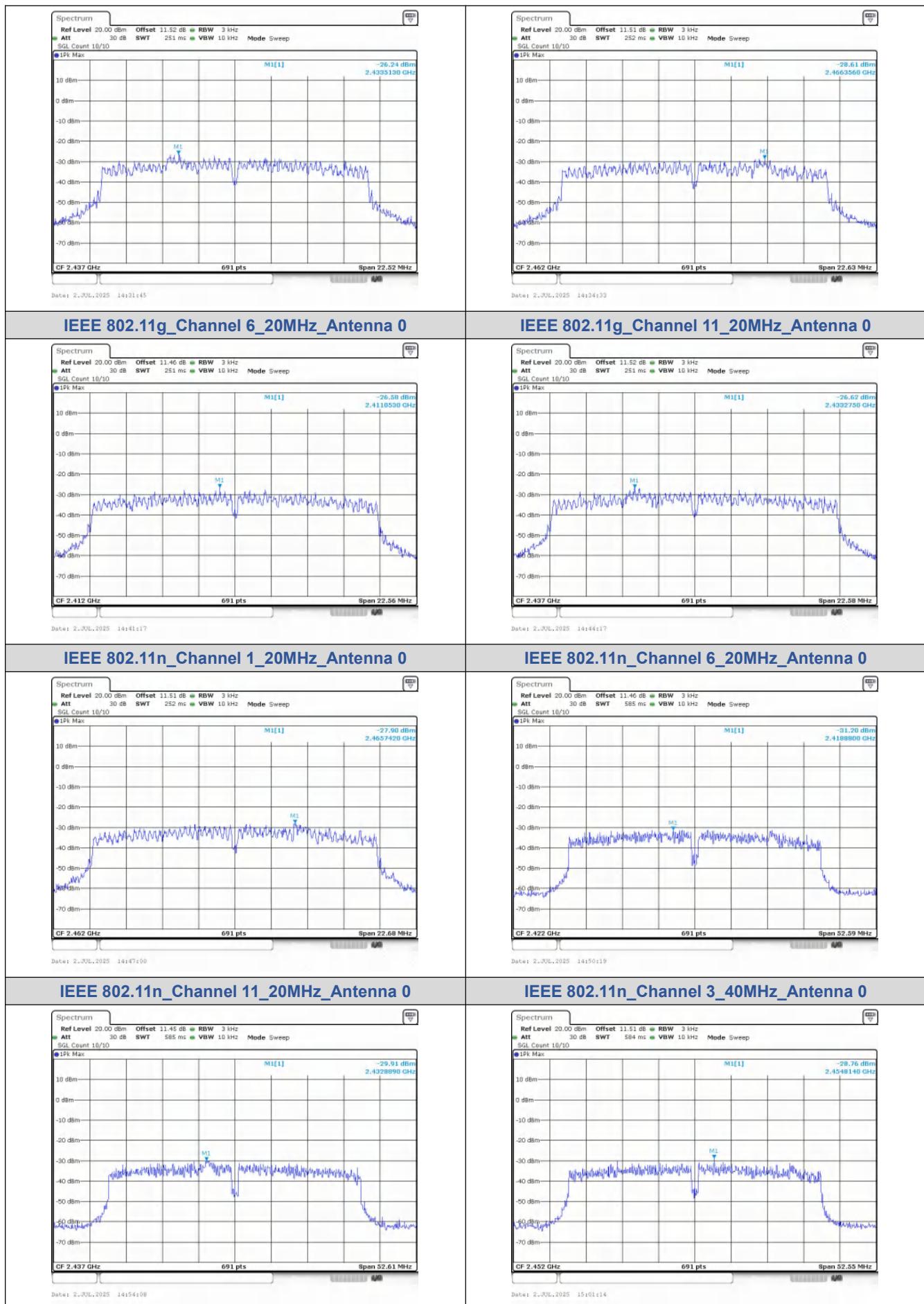
## 8.2. Power Spectral Density

### Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-20.640	≤8	PASS
	6	-21.120		PASS
	11	-19.500		PASS
IEEE 802.11g	1	-25.680	≤8	PASS
	6	-26.240		PASS
	11	-28.610		PASS
IEEE 802.11n_20	1	-26.580	≤8	PASS
	6	-26.620		PASS
	11	-27.900		PASS
IEEE 802.11n_40	3	-31.200	≤8	PASS
	6	-29.910		PASS
	9	-28.760		PASS

### Test Graphs





**IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0**

**IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0**

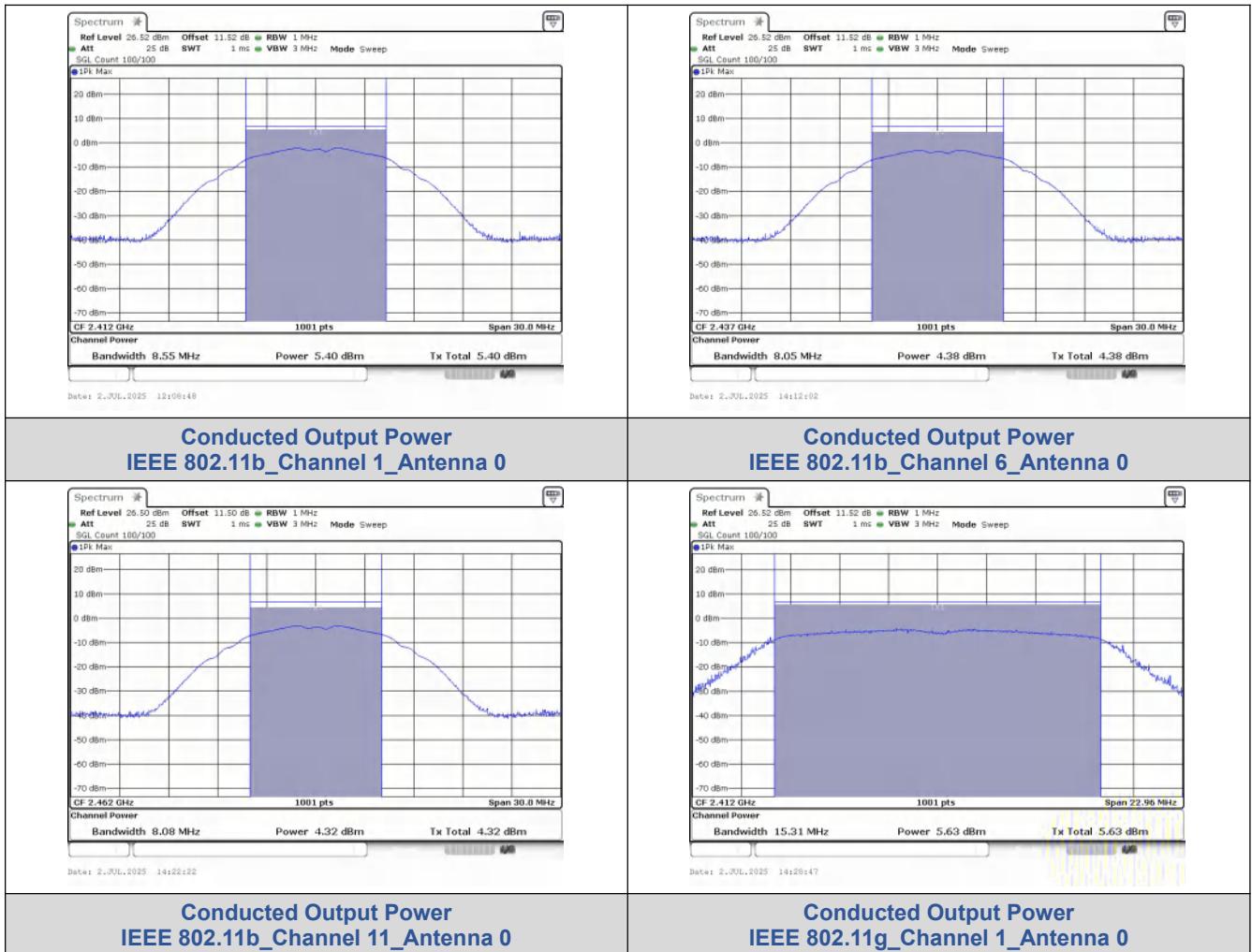
## 8.3. Conducted Output Power

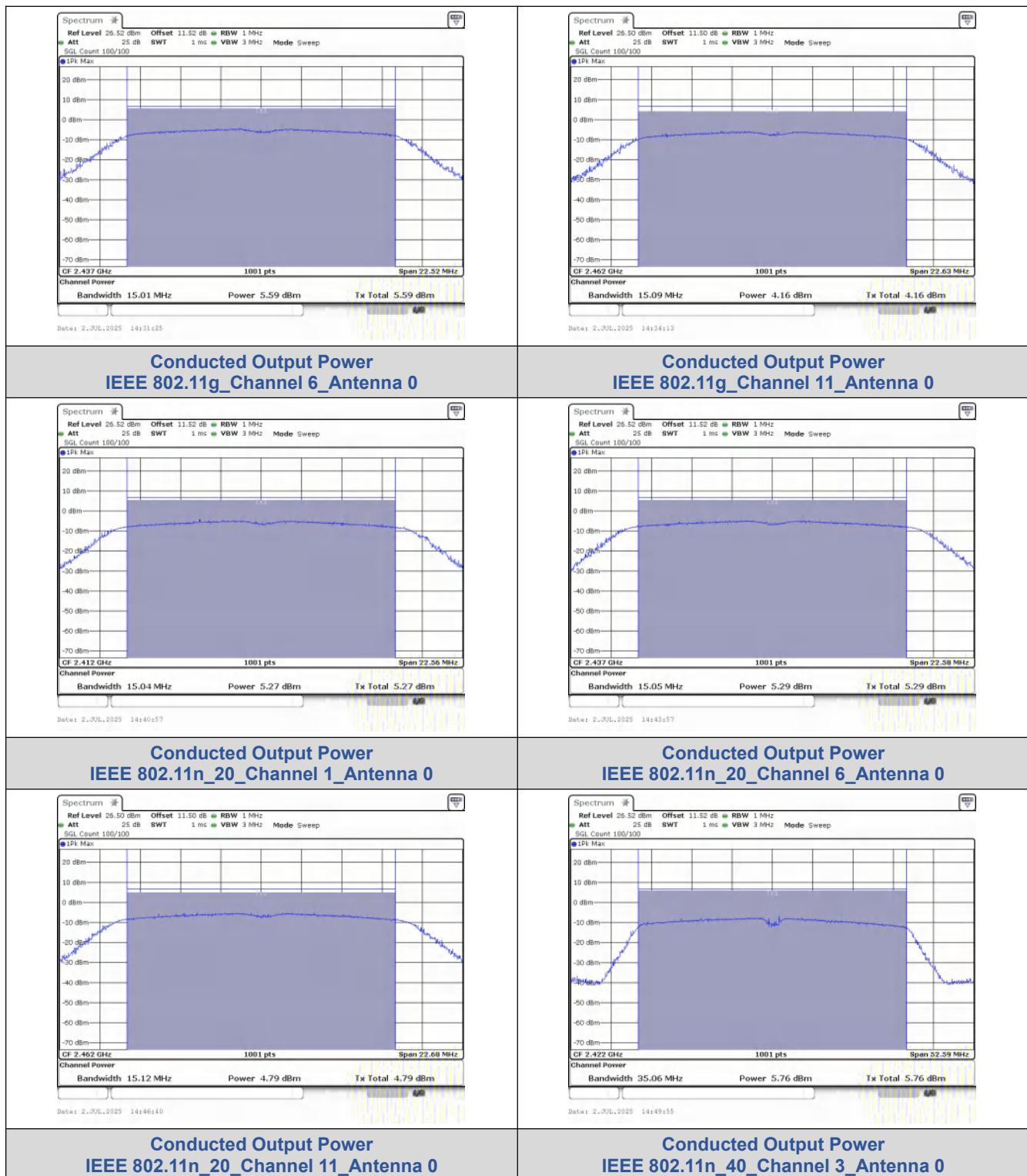
### Test Result

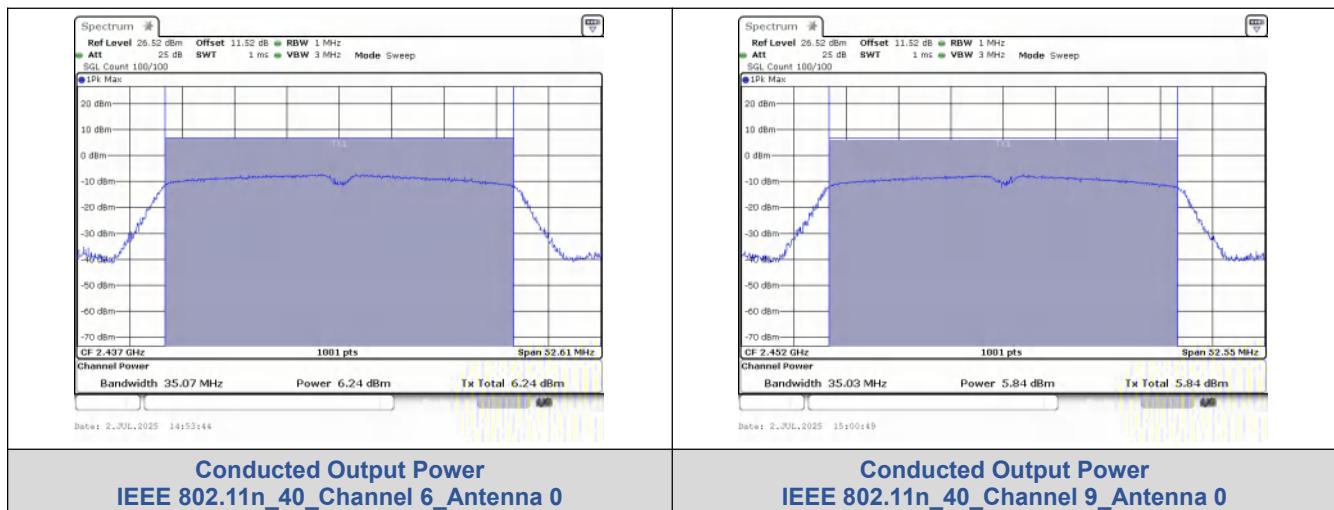
#### Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	5.40	≤30	PASS
	6	4.38	≤30	PASS
	11	4.32	≤30	PASS
IEEE 802.11g	1	5.63	≤30	PASS
	6	5.59	≤30	PASS
	11	4.16	≤30	PASS
IEEE 802.11n_20	1	5.27	≤30	PASS
	6	5.29	≤30	PASS
	11	4.79	≤30	PASS
IEEE 802.11n_40	3	5.76	≤30	PASS
	6	6.24	≤30	PASS
	9	5.84	≤30	PASS

#### Test Graphs





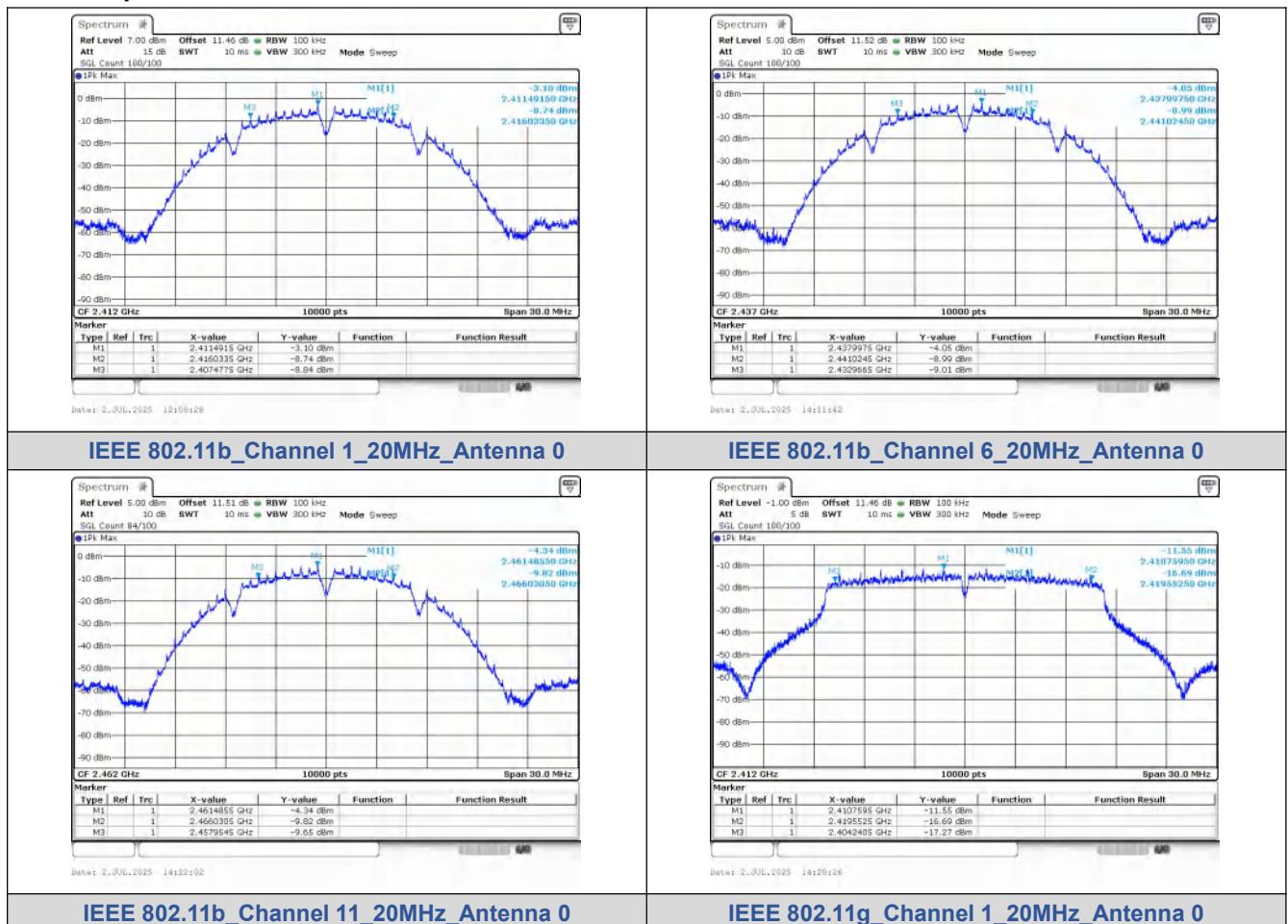


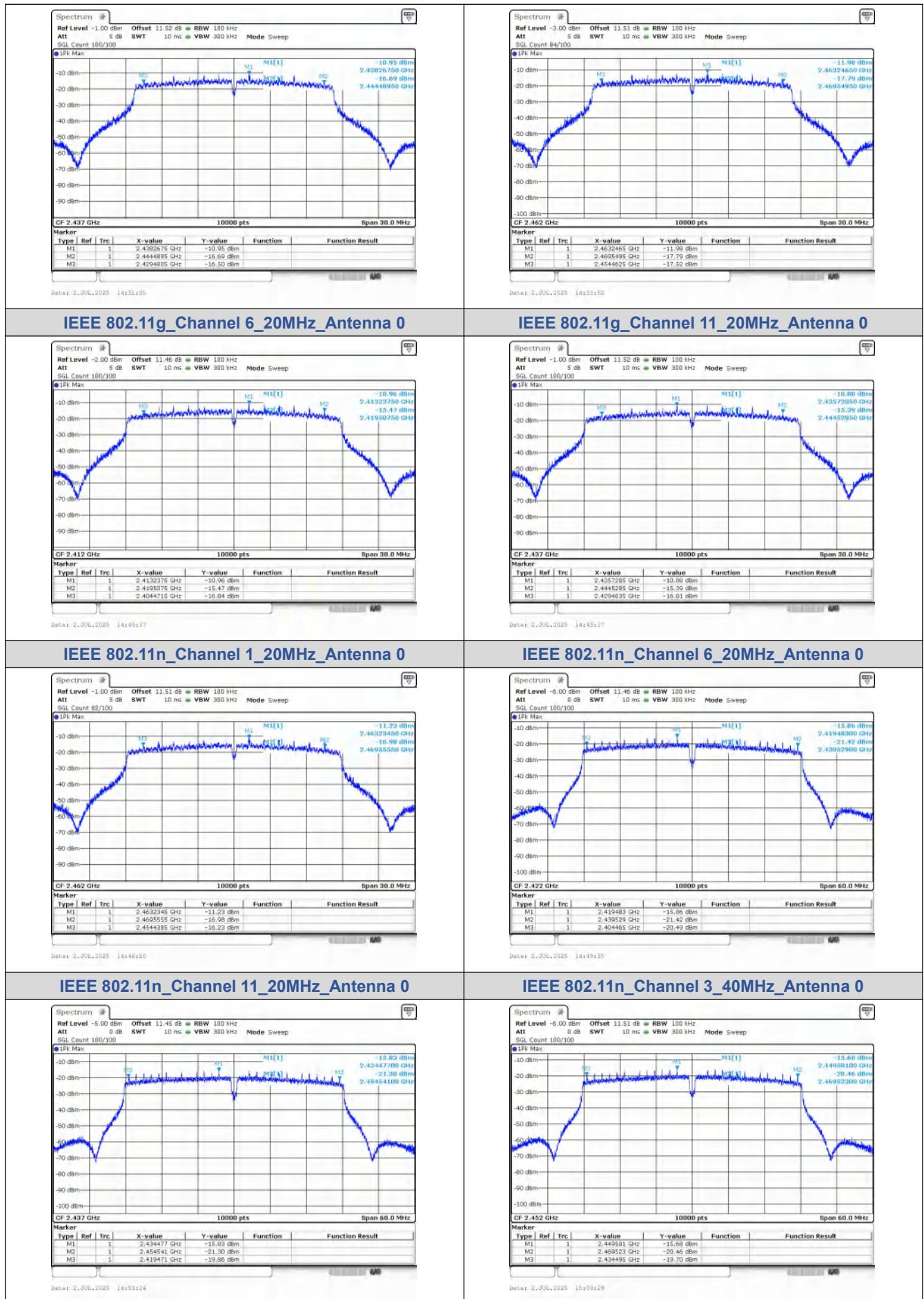
## 8.4. 6dB Bandwidth

### Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.550	≥0.5	PASS
	6		2437	8.050		PASS
	11		2462	8.080		PASS
IEEE 802.11g	1	0	2412	15.31		PASS
	6		2437	15.01		PASS
	11		2462	15.09		PASS
IEEE 802.11n_20	1	0	2412	15.04		PASS
	6		2437	15.05		PASS
	11		2462	15.12		PASS
IEEE 802.11n_40	3	0	2422	35.06		PASS
	6		2437	35.07		PASS
	9		2452	35.03		PASS

### Test Graphs





**IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0**

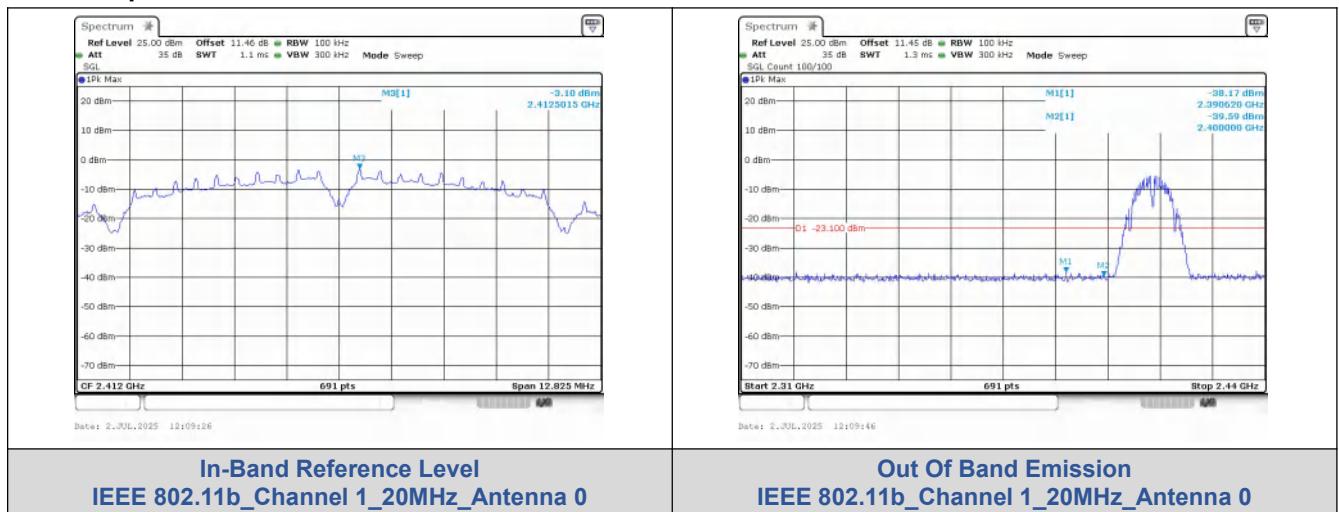
**IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0**

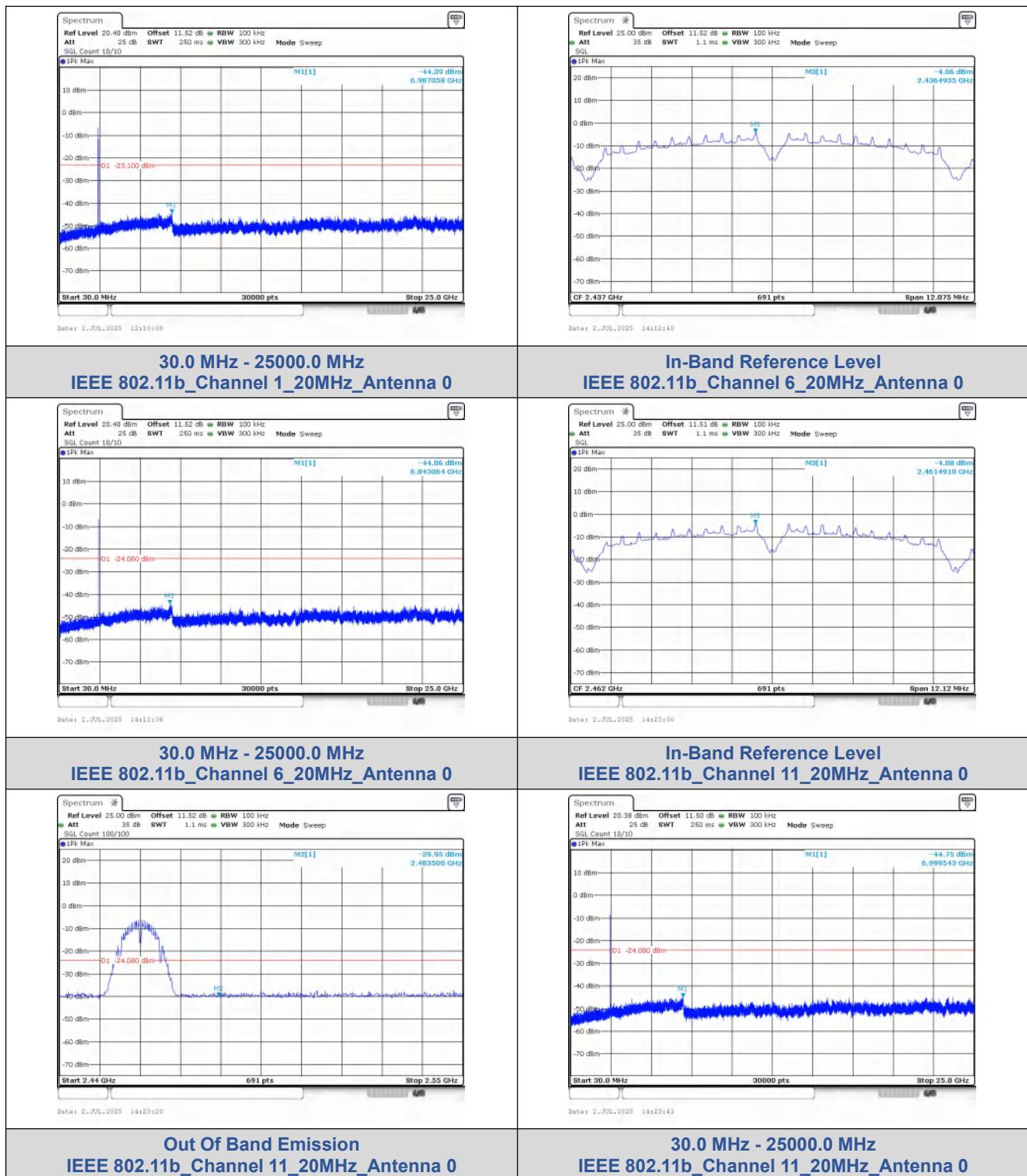
## 8.5. Conducted Out Of Band Emission

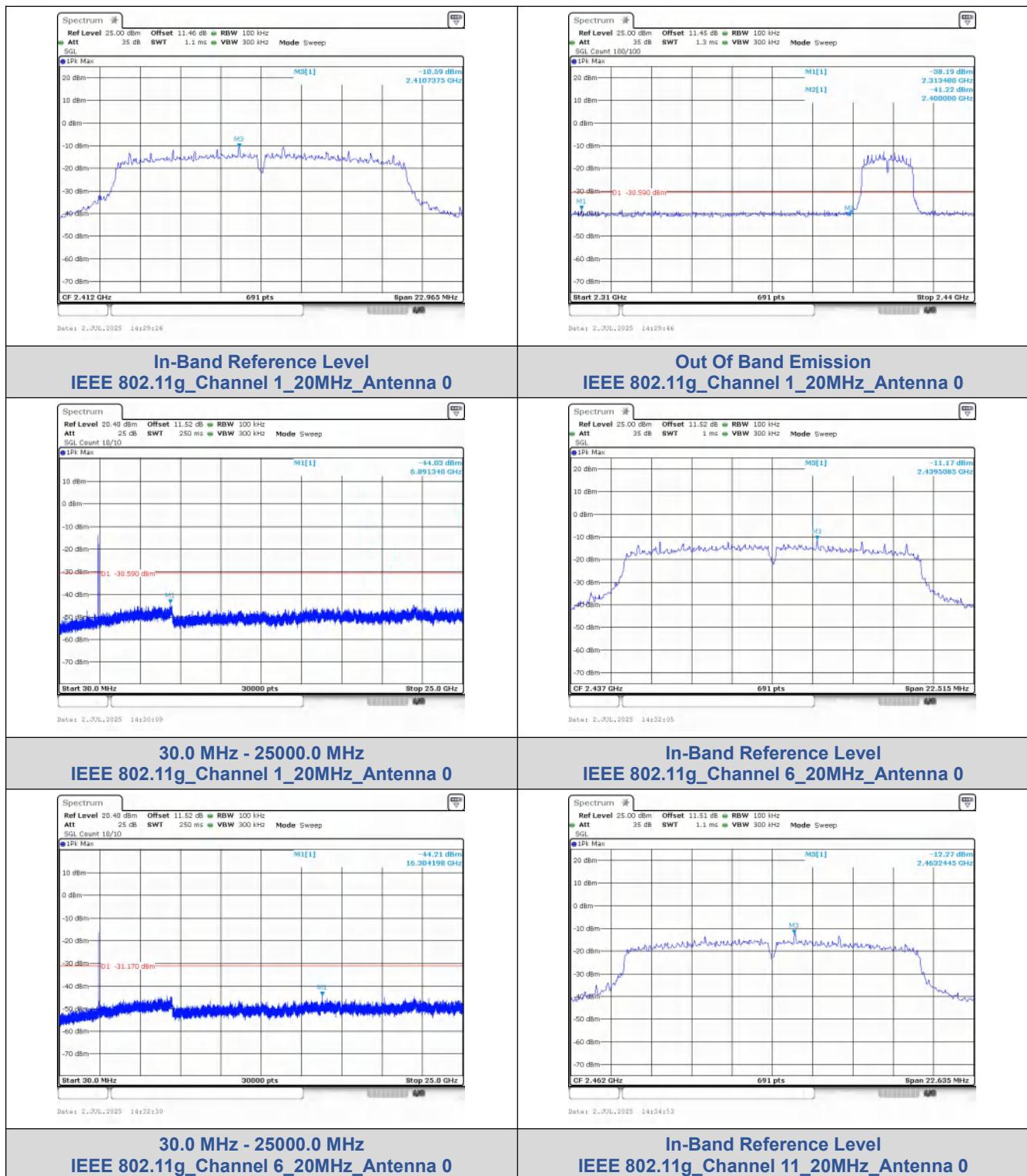
### Test Result

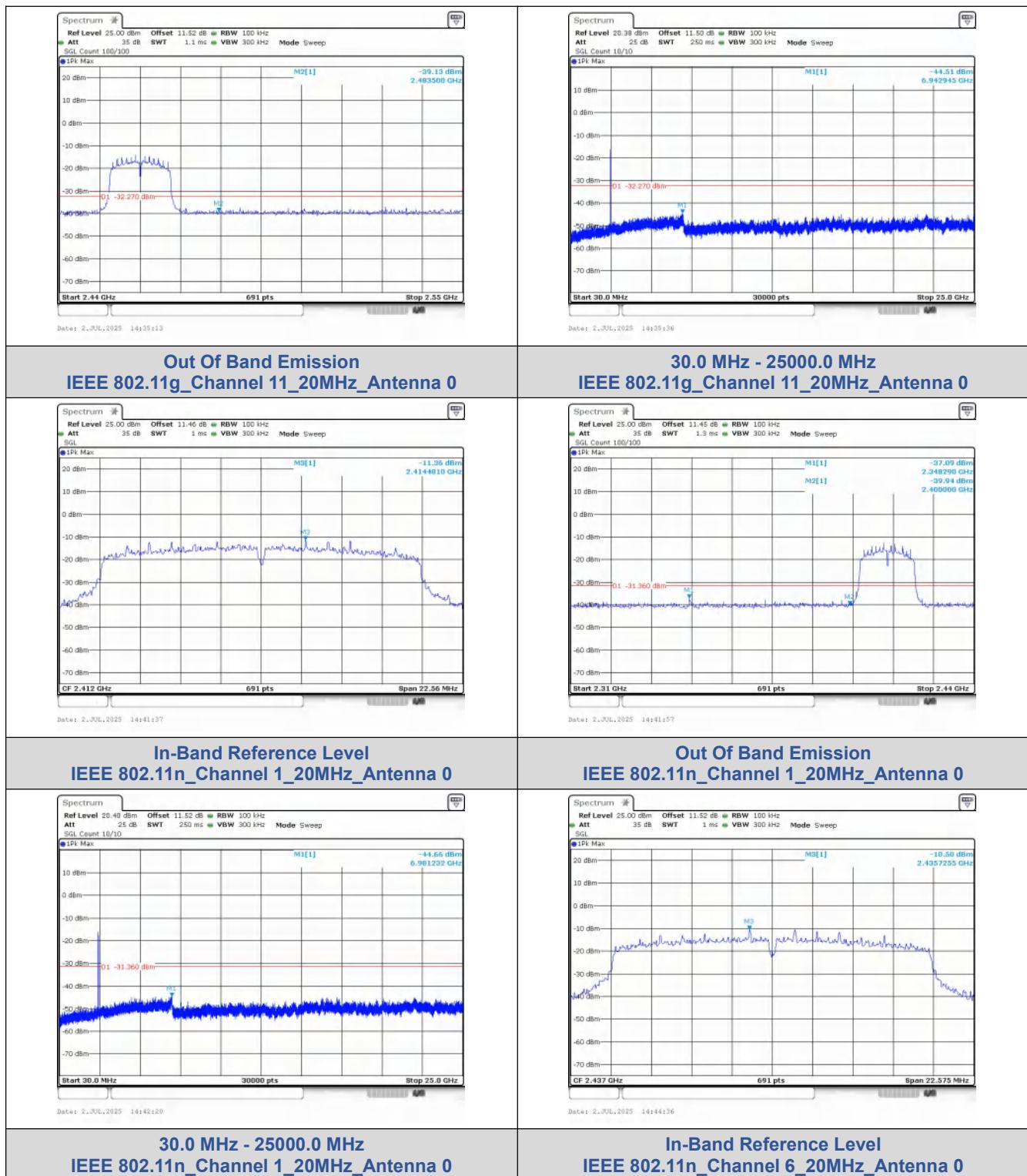
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
IEEE 802.11b	1	0	2390.62	-38.168	-23.1	-15.068	PASS	
			2400.00	-39.590	-23.1	-16.490	PASS	
			6987.10	-44.395	-23.1	-21.295	PASS	
	6		6843.06	-44.058	-24.06	-19.998	PASS	
			2483.50	-39.950	-24.08	-15.870	PASS	
			6999.54	-44.752	-24.08	-20.672	PASS	
IEEE 802.11g	1		2313.48	-38.188	-30.59	-7.598	PASS	
			2400.00	-41.220	-30.59	-10.630	PASS	
			6891.30	-44.034	-30.59	-13.444	PASS	
	6		16304.2	-44.208	-31.17	-13.038	PASS	
			2483.50	-39.130	-32.27	-6.860	PASS	
			6942.94	-44.510	-32.27	-12.240	PASS	
IEEE 802.11n_20	1		2348.29	-37.093	-31.36	-5.733	PASS	
			2400.00	-39.940	-31.36	-8.580	PASS	
			6981.20	-44.660	-31.36	-13.300	PASS	
	6		22135.5	-44.301	-30.5	-13.801	PASS	
			2483.50	-39.030	-31.07	-7.960	PASS	
			22031.5	-44.347	-31.07	-13.277	PASS	
IEEE 802.11n_40	3		2378.20	-37.780	-35.61	-2.170	PASS	
			2400.00	-39.400	-35.61	-3.790	PASS	
			6182.20	-44.608	-35.61	-8.998	PASS	
	6		22043.1	-44.555	-34.89	-9.665	PASS	
			2483.50	-39.520	-35.58	-3.940	PASS	
			6333.68	-44.177	-35.58	-8.597	PASS	

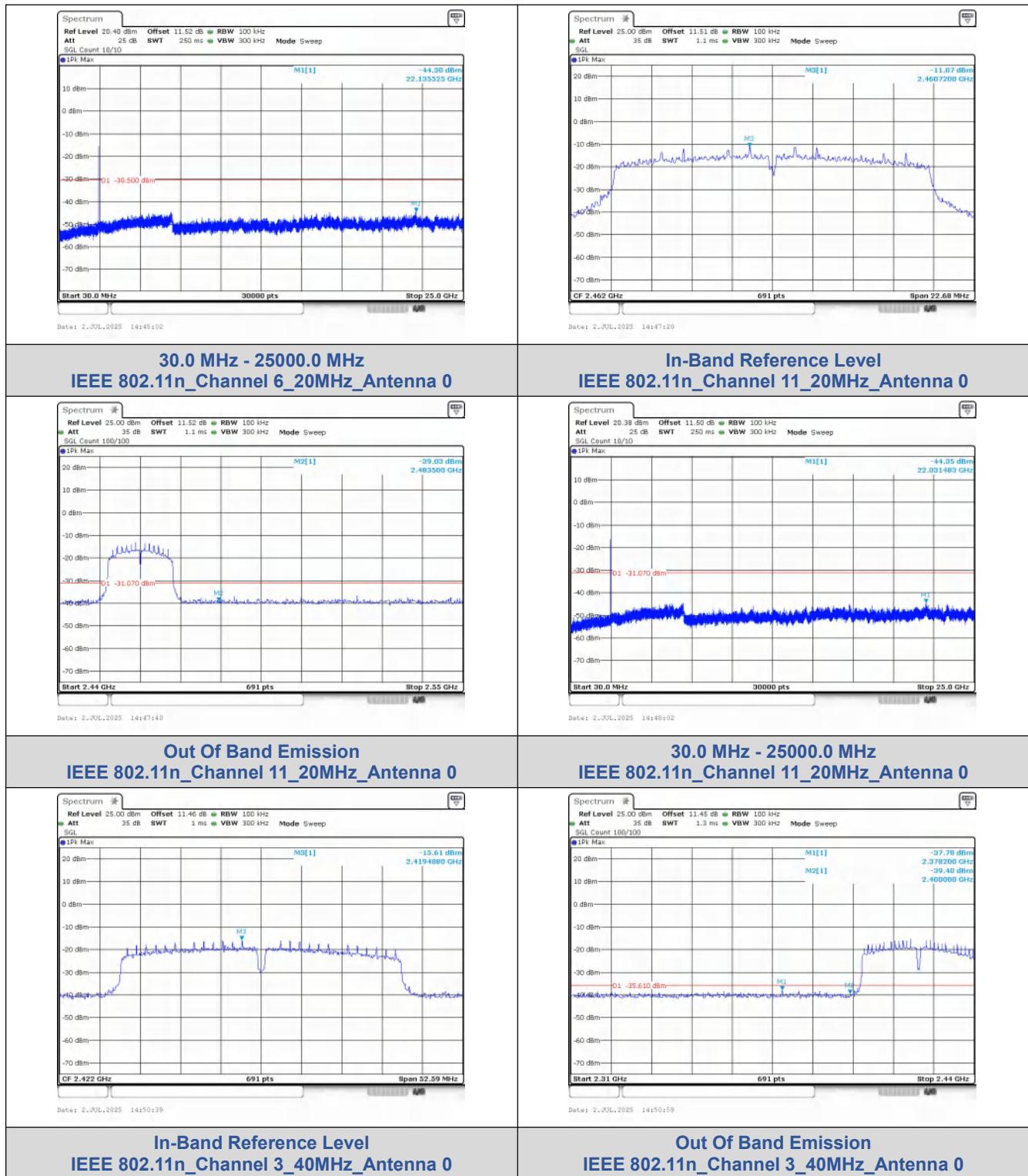
### Test Graphs

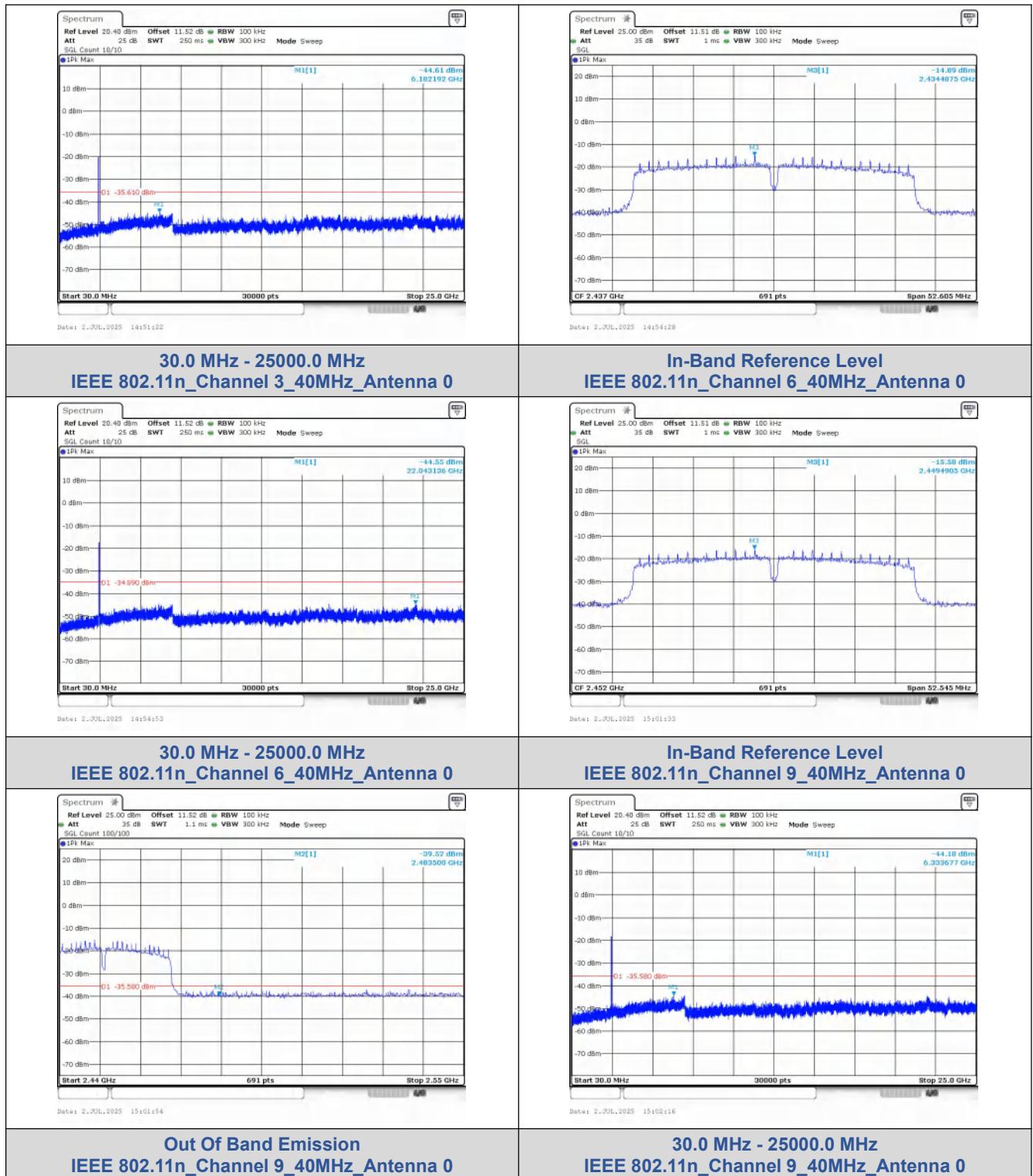












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