



# FCC RADIO TEST REPORT

**FCC ID** : PKRISGFX4210  
**Equipment** : Indoor Mobile Router  
**Brand Name** : Inseego  
**Model Name** : FX4210  
**Marketing Name** : FX4200  
**Applicant** : Inseego Corp.  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Manufacturer** : Inseego Corp.  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Standard** : FCC Part 15 Subpart C §15.247

The product was received on Jul. 15, 2025 and testing was performed from Jul. 24, 2025 to Sep. 25, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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## History of this test report

Report No.	Version	Description	Issue Date
FR4N2601A	01	Initial issue of report	Sep. 19, 2025

## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Danny Lee**

**Report Producer: Shannon Huang**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature		
<b>General Specs</b> 3G-WCDMA, 4G-LTE, 5G-FR1, Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, and GNSS.		
<b>Antenna Type</b> WLAN: <Ant. 1>: Internal Antenna <Ant. 2>: Internal Antenna		
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	<Ant. 1>: 2.5 <Ant. 2>: 3.5

**Remark:**

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. The DUT supports Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode is considered to cover the Tx Beamforming mode.

### 1.1.1 Antenna Directional Gain

#### <For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain =  $G_{ANT}$  + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ .

$G_{ANT}$  is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

$N_{SS}$  = the number of independent spatial streams of data;

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k/20}$  if the  $k$ th antenna is being fed by spatial stream  $j$ , or zero if it is not;  
 $G_k$  is the gain in dBi of the  $k$ th antenna.

As minimum  $N_{SS}=1$  is supported by EUT, the formula can be simplified as:

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

Where  $G_1, G_2 \dots G_N$  denote single antenna gain.

The directional gain "DG" is calculated as following table.

			<b>DG</b>	<b>DG</b>	<b>Power</b>	<b>PSD</b>
			<b>for</b>	<b>for</b>	<b>Limit</b>	<b>Limit</b>
	<b>Ant 1</b>	<b>Ant 2</b>	<b>Power</b>	<b>PSD</b>	<b>Reduction</b>	<b>Reduction</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>2.4GHz</b>	2.50	3.50	3.50	6.02	0.00	0.02

Calculation example:

If a device has two antenna,  $G_{ANT1}= 2.5$  dBi;  $G_{ANT2}=3.5$  dBi

Directional gain of power measurement =  $\max(2.5, 3.5) + 0 = 3.5$  dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[ 10^{(2.5 \text{ dBi} / 20)} + 10^{(3.5 \text{ dBi} / 20)} \right]^2 / 2 \right\} \\ = 6.02 \text{ dBi}$$

Power limit reduction = Composite gain – 6dBi, ( min = 0 )

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, ( min = 0 )



## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b> CO05-HY (TAF Code: 1190)
<b>Remark</b>	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

**Note:** The test site complies with ANSI C63.4 2014 requirement.

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, 03CH12-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

## 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2020

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



## 2.2 Test Mode

This device support 52-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n and 802.11ax mode is smaller than 802.11be mode, so all other conducted and radiated test is covered by 802.11be mode.

**The final test modes include the worst data rates for each modulation shown in the table below.**

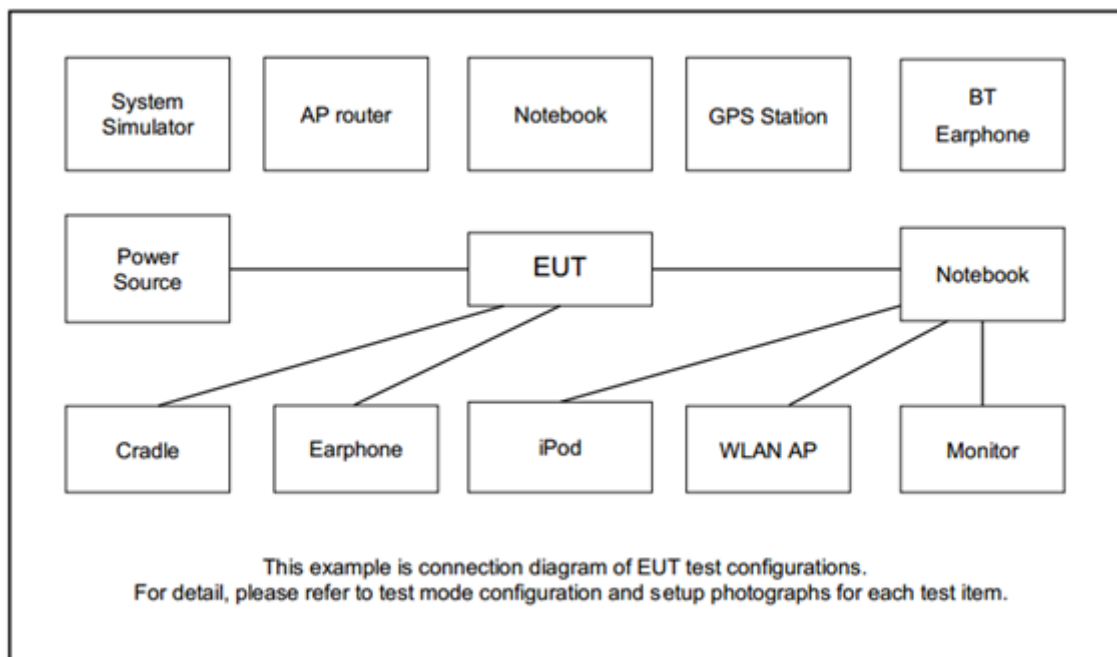
### MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20 (Covered by EHT20)	MCS0
802.11ax HE20 (Covered by EHT20)	MCS0
802.11be EHT20	MCS0

**Remark:** The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 :WLAN (2.4GHz) Tx + WAN Link + LAN Link + Adapter
<b>Remark:</b> <ol style="list-style-type: none"> <li>The detailed radiated test modes are shown in Appendix C.</li> <li>For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.</li> </ol>	

## 2.3 Connection Diagram of Test System



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	AC Adapter	inseego	P307	N/A	N/A	N/A
2.	PC	msi	PRO DP1 80A7	FCC DoC	N/A	Unshielded, 1.8m
3.	PC	msi	Infinite B915	FCC DoC	N/A	Unshielded, 1.8m
4.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
5.	Notebook	Dell	P152G	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
6.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
7.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A



## 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.155.1" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

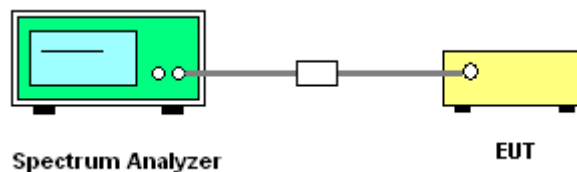
##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW  $\geq 3 * RBW$ . In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.  
For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth, and set the Video bandwidth (VBW)  $\geq 3 * RBW$ .
5. Measure and record the results in the test report.

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

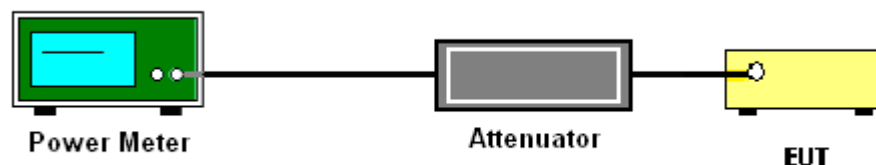
### 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

#### 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

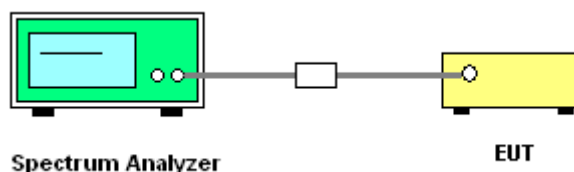
#### 3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = No faster than coupled (auto) time, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity  $10 \log(N_{\text{ANT}})$  dB is added to each spectrum value before comparing to the emission limit. The addition of  $10 \log(N_{\text{ANT}})$  dB serves to apportion the emission limit among the  $N_{\text{ANT}}$  outputs so that each output is permitted to contribute no more than  $1/N_{\text{ANT}}^{\text{th}}$  of the PSD limit .

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Power Spectral Density



Please refer to Appendix A.

### 3.4 Conducted Band Edges and Spurious Emission Measurement

#### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

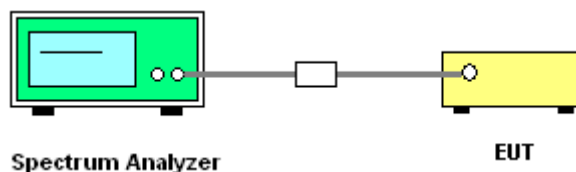
#### 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.



### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

#### 3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is 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.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.

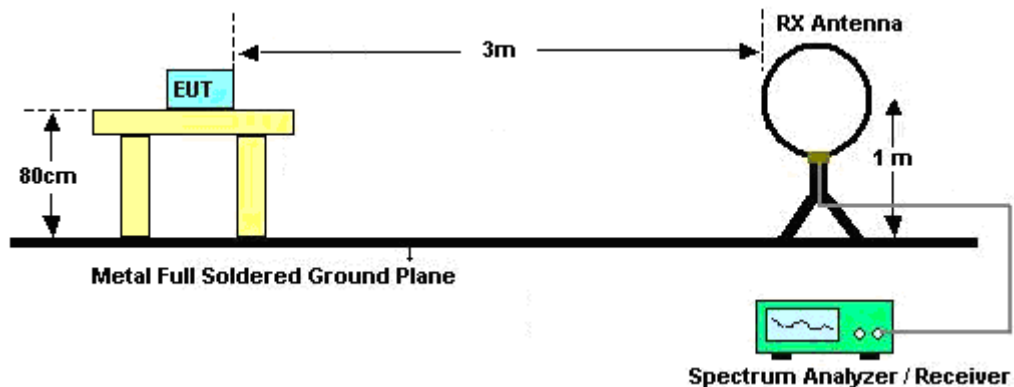
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW = 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW = 3 MHz for  $f \geq 1$  GHz for peak measurement.

For average measurement:

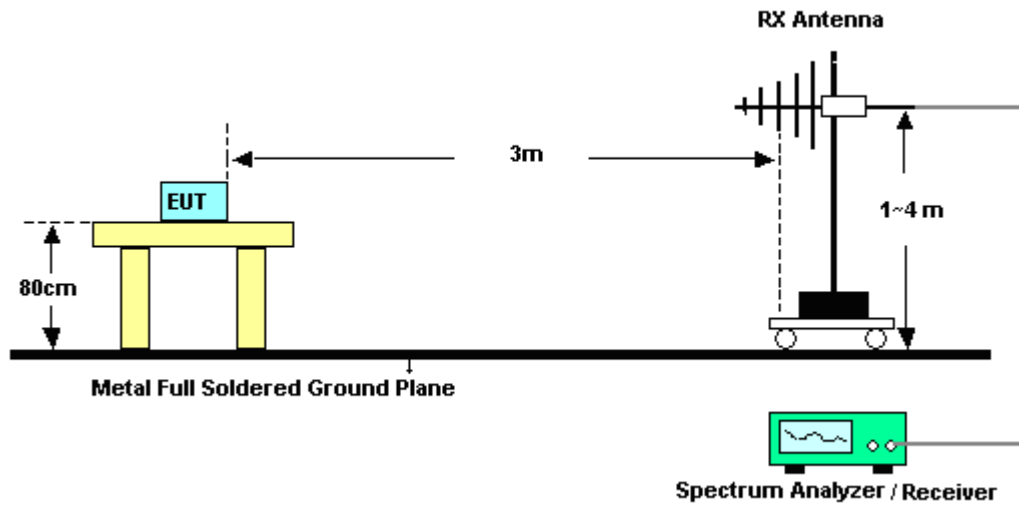
  - VBW = 10 Hz, when duty cycle is no less than 98 percent.
  - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

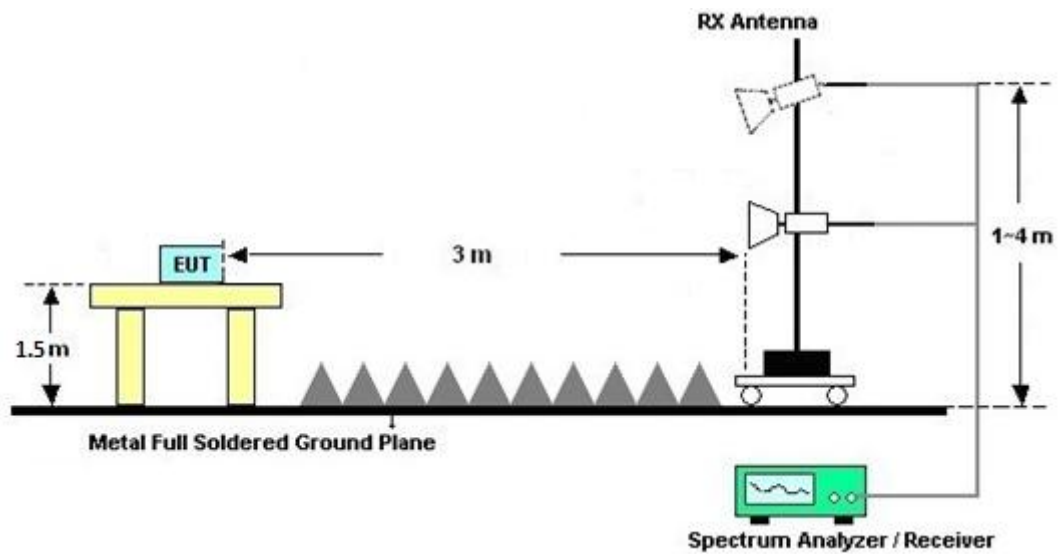
For radiated emissions below 30MHz



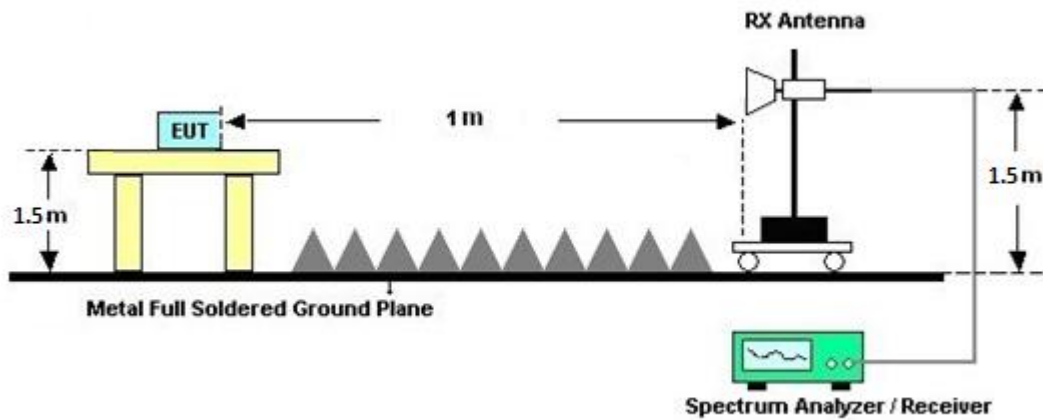
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

### 3.5.7 Duty Cycle

Please refer to Appendix D.

### 3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix C.

### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment 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.

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.

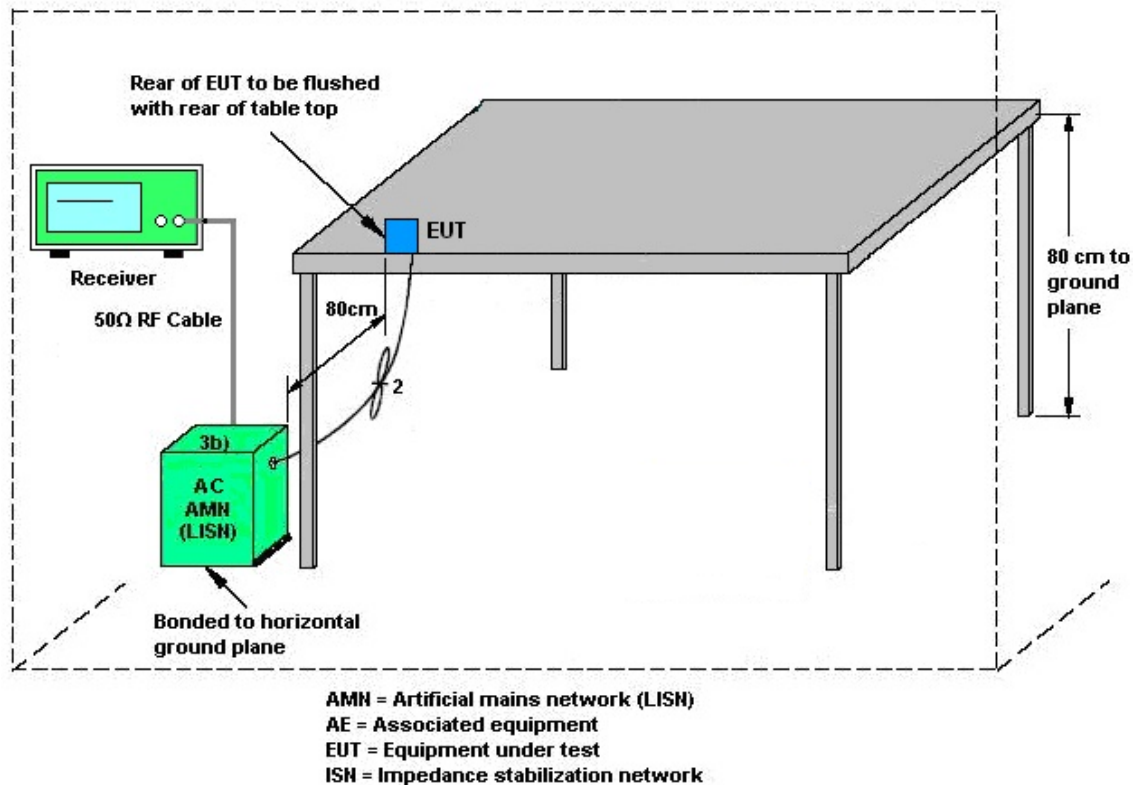
#### 3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **3.7.2 Antenna Anti-Replacement Construction**

Antenna permanently attached.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Aug. 11, 2025~ Sep. 10, 2025	Dec. 17, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 05, 2024	Aug. 11, 2025~ Sep. 10, 2025	Oct. 04, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 02, 2025	Aug. 11, 2025~ Sep. 10, 2025	Jul. 01, 2026	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz~40GHz	Jan. 09, 2025	Aug. 11, 2025~ Sep. 10, 2025	Jan. 08, 2026	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 19, 2025	Aug. 11, 2025~ Sep. 10, 2025	Mar. 18, 2026	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	Feb. 07, 2025	Aug. 11, 2025~ Sep. 10, 2025	Feb. 06, 2026	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900269	1GHz~18GHz	Dec. 19, 2024	Aug. 11, 2025~ Sep. 10, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Aug. 11, 2025~ Sep. 10, 2025	Dec. 01, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 05, 2024	Aug. 11, 2025~ Sep. 10, 2025	Oct. 04, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290111	20Hz~26.5GHz	Nov. 22, 2024	Aug. 11, 2025~ Sep. 10, 2025	Nov. 21, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN2	3GHz High Pass Filter	Mar. 12, 2025	Aug. 11, 2025~ Sep. 10, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Aug. 11, 2025~ Sep. 10, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Aug. 11, 2025~ Sep. 10, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Aug. 11, 2025~ Sep. 10, 2025	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM- KM-100	240907	30MHz~40GHz	Nov. 14, 2024	Aug. 11, 2025~ Sep. 10, 2025	Nov. 13, 2025	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303B	TP200722	N/A	Mar. 03, 2025	Aug. 11, 2025~ Sep. 10, 2025	Mar. 02, 2026	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 11, 2025~ Sep. 10, 2025	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 11, 2025~ Sep. 10, 2025	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 11, 2025~ Sep. 10, 2025	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Aug. 11, 2025~ Sep. 10, 2025	N/A	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Jul. 24, 2025~ Sep. 25, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SN O31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Jul. 24, 2025~ Sep. 25, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz~40GHz	Jan. 14, 2025	Jul. 24, 2025~ Sep. 25, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Jul. 24, 2025~ Sep. 25, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Jul. 24, 2025~ Sep. 25, 2025	N/A	Conducted (TH05-HY)





Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 20, 2025	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 10, 2024	Aug. 20, 2025	Dec. 09, 2025	Conduction (CO05-HY)
Hygrometer	TECEPIL	DTM-303A	TP210031	N/A	Jun. 26, 2025	Aug. 20, 2025	Jun. 25, 2026	Conduction (CO05-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	9kHz~30MHz	Mar. 26, 2025	Aug. 20, 2025	Mar. 25, 2026	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Jul. 25, 2025	Aug. 20, 2025	Jul. 24, 2026	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Aug. 20, 2025	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 29, 2025	Aug. 20, 2025	Jul. 28, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	9KHz - 30MHz	Oct. 15, 2024	Aug. 20, 2025	Oct. 14, 2025	Conduction (CO05-HY)



## 5 Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.7 dB
----------------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.3 dB
----------------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7 dB
----------------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0 dB
----------------------------------------------------------------------------	--------

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.1 dB
----------------------------------------------------------------------------	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu/Junyu Jhou	Temperature:	21~25	°C
Test Date:	2025/7/24~2025/9/25	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band MIMO										
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	2	1	2412	12.99	12.99	8.04	8.02	0.50	Pass
11b	1Mbps	2	6	2437	12.94	12.96	8.04	8.01	0.50	Pass
11b	1Mbps	2	11	2462	12.89	12.92	8.05	7.56	0.50	Pass
11g	6Mbps	2	1	2412	17.72	17.41	16.35	16.36	0.50	Pass
11g	6Mbps	2	6	2437	17.75	17.46	16.35	16.37	0.50	Pass
11g	6Mbps	2	11	2462	17.75	17.45	16.35	16.35	0.50	Pass
HT20	MCS0	2	1	2412	18.46	18.42	17.59	17.61	0.50	Pass
HT20	MCS0	2	6	2437	18.48	18.44	17.59	17.60	0.50	Pass
HT20	MCS0	2	11	2462	18.49	18.43	17.60	17.61	0.50	Pass

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band MIMO																
Mod.	Data Rate	N <sub>Tx</sub>	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	24.60	24.50	27.56	30.00		3.50		31.06		36.00		Pass
11b	1Mbps	2	6	2437	24.80	24.90	27.86	30.00		3.50		31.36		36.00		Pass
11b	1Mbps	2	11	2462	24.70	24.60	27.66	30.00		3.50		31.16		36.00		Pass
11g	6Mbps	2	1	2412	18.00	18.00	21.01	30.00		3.50		24.51		36.00		Pass
11g	6Mbps	2	6	2437	24.40	24.60	27.51	30.00		3.50		31.01		36.00		Pass
11g	6Mbps	2	11	2462	18.40	18.30	21.36	30.00		3.50		24.86		36.00		Pass
HT20	MCS0	2	1	2412	16.50	16.50	19.51	30.00		3.50		23.01		36.00		Pass
HT20	MCS0	2	6	2437	23.50	23.60	26.56	30.00		3.50		30.06		36.00		Pass
HT20	MCS0	2	11	2462	16.90	16.80	19.86	30.00		3.50		23.36		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band MIMO												
Mod.	Data Rate	N <sub>Tx</sub>	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	1.59	1.24	4.60	6.02		7.98		Pass
11b	1Mbps	2	6	2437	2.25	2.35	5.36	6.02		7.98		Pass
11b	1Mbps	2	11	2462	1.76	2.02	5.03	6.02		7.98		Pass
11g	6Mbps	2	1	2412	-7.70	-7.29	-4.28	6.02		7.98		Pass
11g	6Mbps	2	6	2437	-1.16	-1.78	1.85	6.02		7.98		Pass
11g	6Mbps	2	11	2462	-7.51	-7.37	-4.36	6.02		7.98		Pass
HT20	MCS0	2	1	2412	-9.96	-9.89	-6.88	6.02		7.98		Pass
HT20	MCS0	2	6	2437	-3.06	-3.13	-0.05	6.02		7.98		Pass
HT20	MCS0	2	11	2462	-9.42	-9.38	-6.37	6.02		7.98		Pass

Measured power density (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band MIMO																	
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	16.50	16.50	19.51	30.00		3.50		23.01		36.00		Pass
HE20	MCS0	2	1	2412	52/37	9.60	10.00	12.81	30.00		3.50		16.31		36.00		Pass
HE20	MCS0	2	6	2437	Full	23.50	23.60	26.56	30.00		3.50		30.06		36.00		Pass
HE20	MCS0	2	6	2437	52/38	16.80	17.00	19.91	30.00		3.50		23.41		36.00		Pass
HE20	MCS0	2	11	2462	Full	16.90	16.80	19.86	30.00		3.50		23.36		36.00		Pass
HE20	MCS0	2	11	2462	52/40	10.10	9.90	13.01	30.00		3.50		16.51		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-10.53	-10.56	-7.52	6.02		7.98		Pass
HE20	MCS0	2	1	2412	52/37	-11.02	-11.31	-8.01	6.02		7.98		Pass
HE20	MCS0	2	6	2437	Full	-3.51	-3.51	-0.50	6.02		7.98		Pass
HE20	MCS0	2	6	2437	52/38	-3.99	-3.53	-0.52	6.02		7.98		Pass
HE20	MCS0	2	11	2462	Full	-9.94	-9.56	-6.55	6.02		7.98		Pass
HE20	MCS0	2	11	2462	52/40	-10.39	-10.46	-7.38	6.02		7.98		Pass

Measured power density (dBm) has offset with cable loss.



**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band MIMO											
Mod.	Data Rate	N <sub>Tx</sub>	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
EHT20	MCS0	2	1	2412	Full	19.36	19.37	19.00	19.03	0.50	Pass
EHT20	MCS0	2	6	2437	Full	19.39	19.41	19.00	19.00	0.50	Pass
EHT20	MCS0	2	11	2462	Full	19.39	19.41	19.02	18.97	0.50	Pass

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band MIMO																	
Mod.	Data Rate	N <sub>Tx</sub>	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
EHT20	MCS0	2	1	2412	Full	16.60	16.60	19.61	30.00		3.50		23.11		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	10.10	10.40	13.26	30.00		3.50		16.76		36.00		Pass
EHT20	MCS0	2	6	2437	Full	23.60	23.70	26.66	30.00		3.50		30.16		36.00		Pass
EHT20	MCS0	2	6	2437	52/38	17.50	17.40	20.46	30.00		3.50		23.96		36.00		Pass
EHT20	MCS0	2	11	2462	Full	17.00	16.90	19.96	30.00		3.50		23.46		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	10.20	10.00	13.11	30.00		3.50		16.61		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

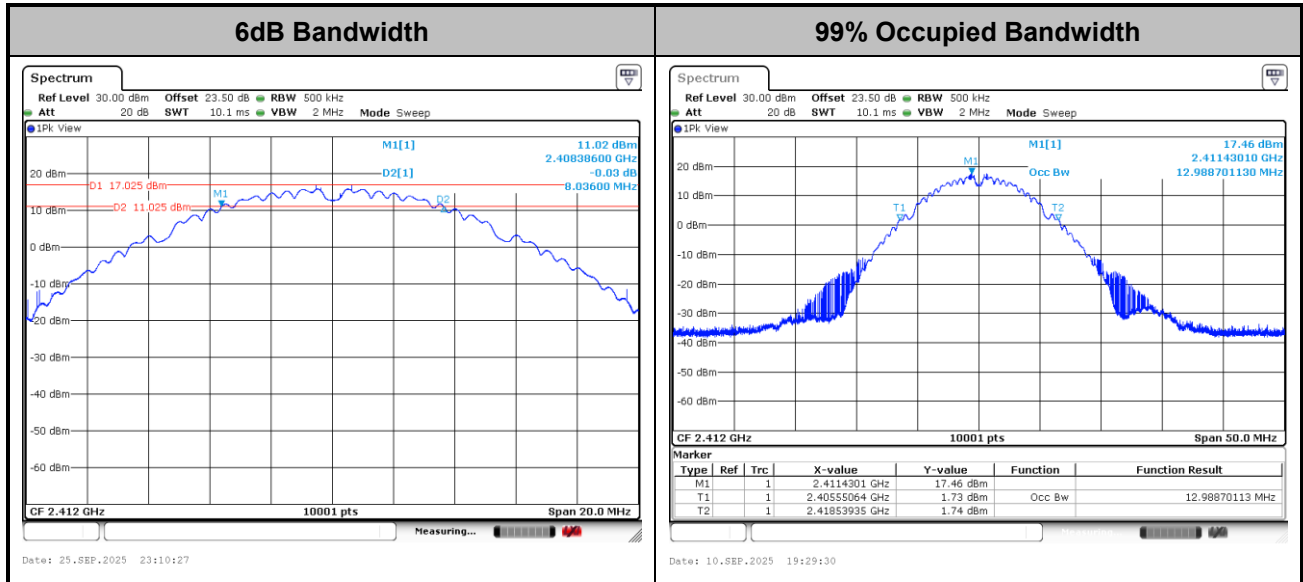
**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band MIMO													
Mod.	Data Rate	N <sub>TX</sub>	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
EHT20	MCS0	2	1	2412	Full	-9.76	-9.90	-6.75	6.02		7.98		Pass
EHT20	MCS0	2	1	2412	52/37	-9.91	-9.94	-6.90	6.02		7.98		Pass
EHT20	MCS0	2	6	2437	Full	-2.80	-2.60	0.41	6.02		7.98		Pass
EHT20	MCS0	2	6	2437	52/38	-3.06	-2.85	0.16	6.02		7.98		Pass
EHT20	MCS0	2	11	2462	Full	-9.37	-9.36	-6.35	6.02		7.98		Pass
EHT20	MCS0	2	11	2462	52/40	-9.66	-9.57	-6.56	6.02		7.98		Pass

Measured power density (dBm) has offset with cable loss.

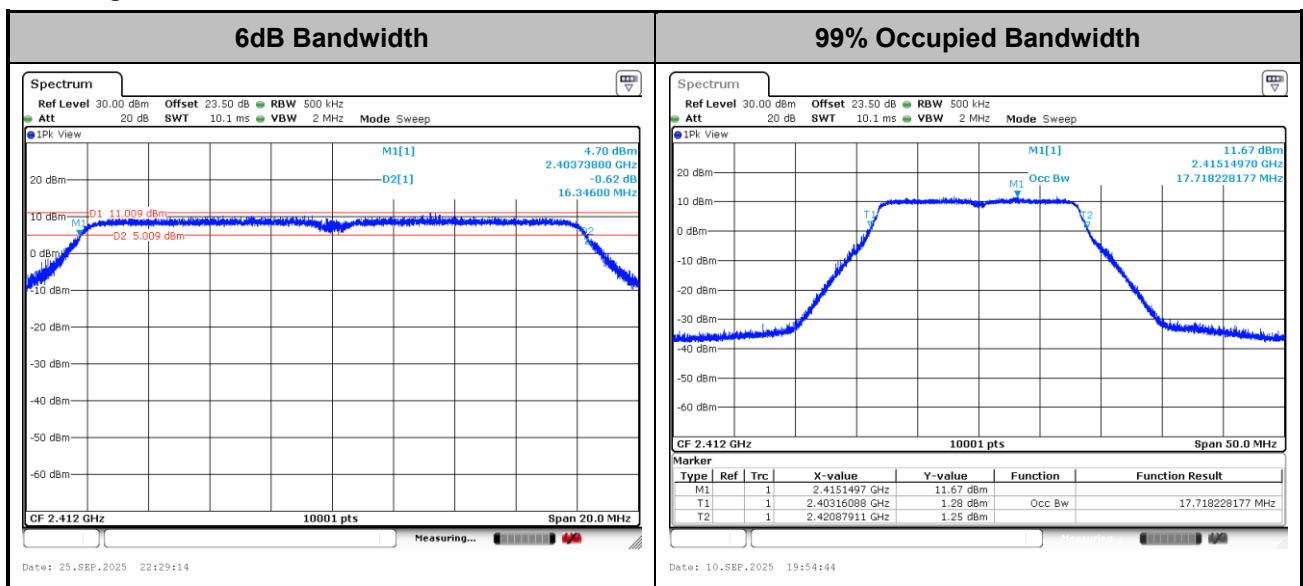
**6dB and 99% Occupied Bandwidth**

&lt;802.11b&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

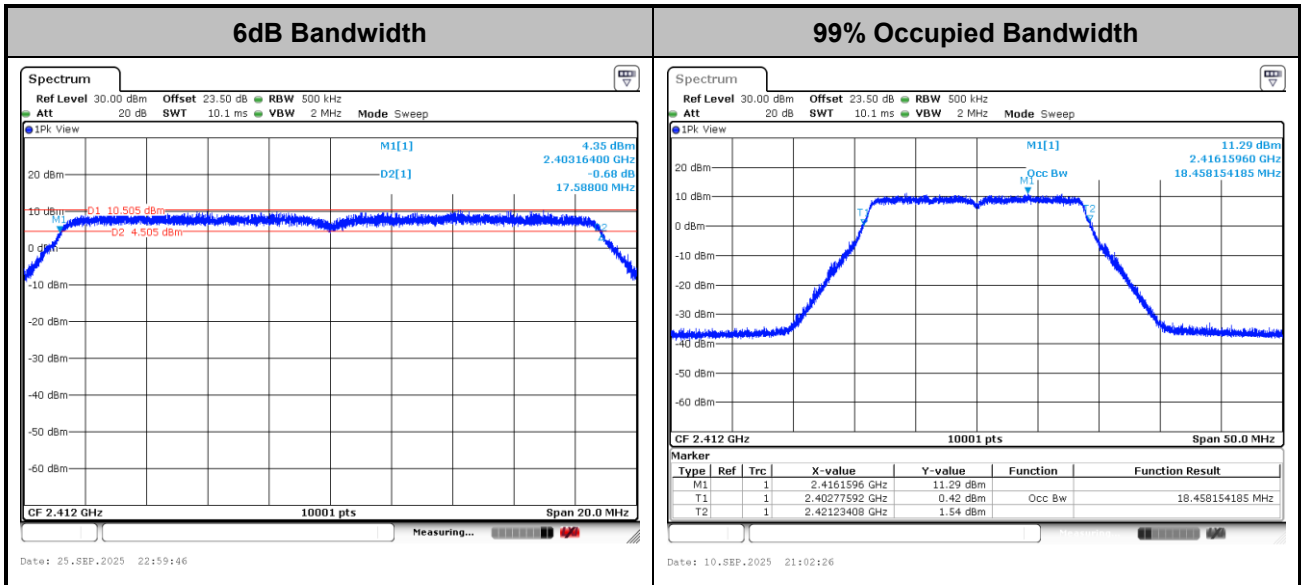
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Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

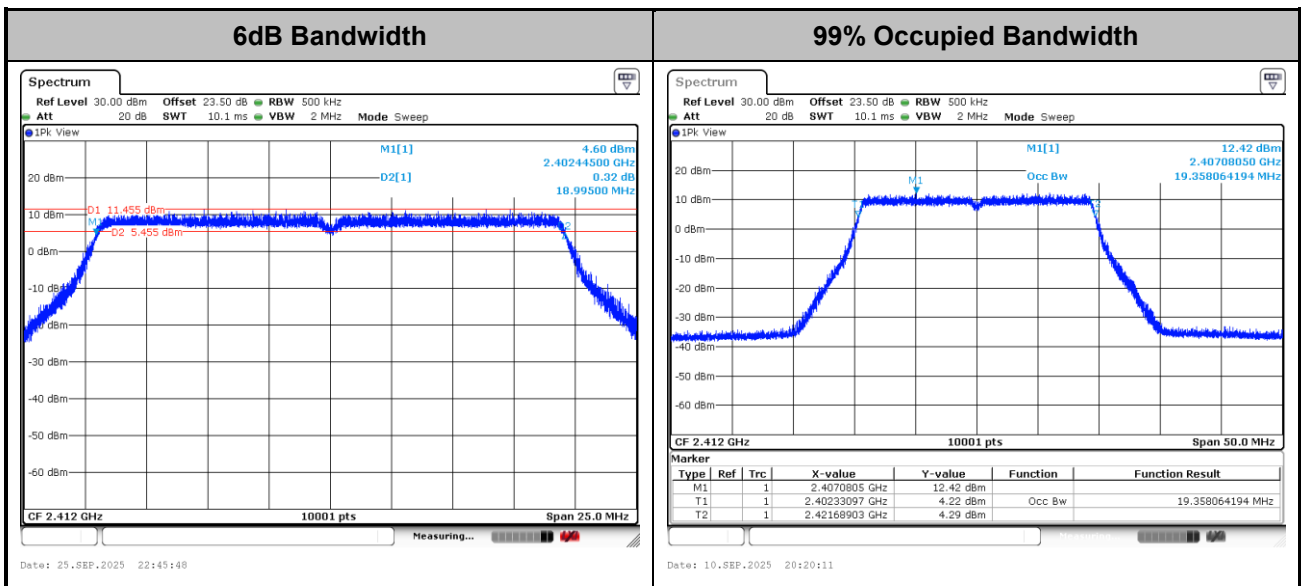


## &lt;802.11gN20&gt;



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

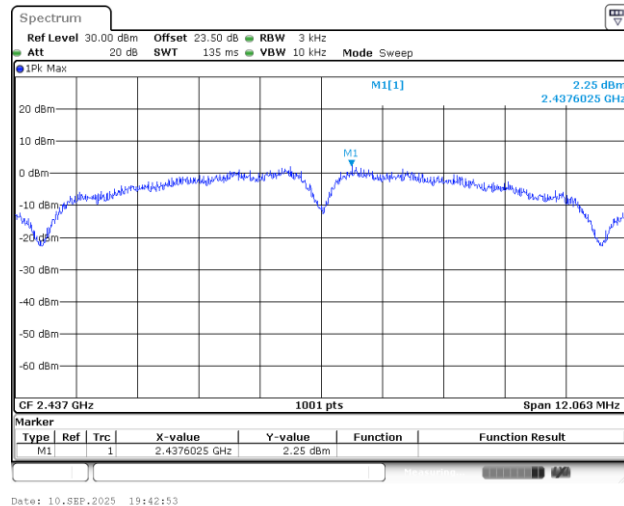
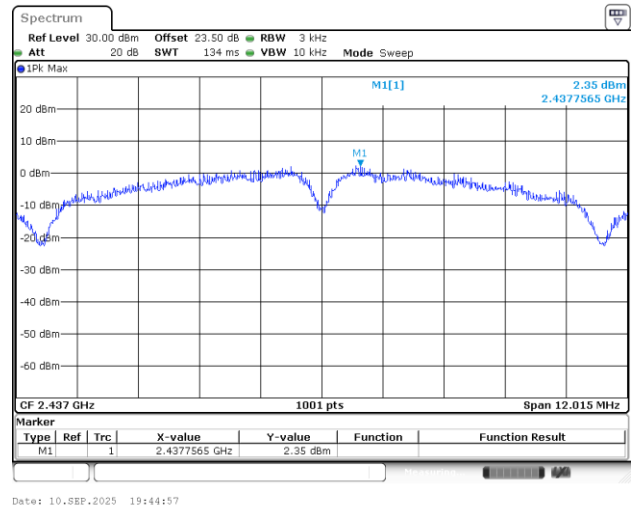
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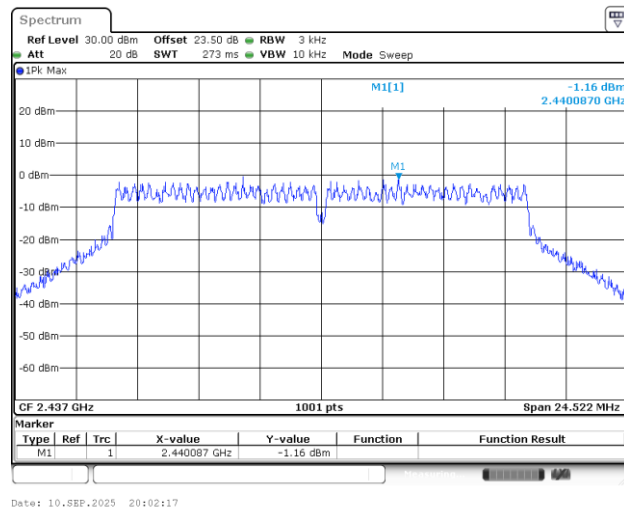
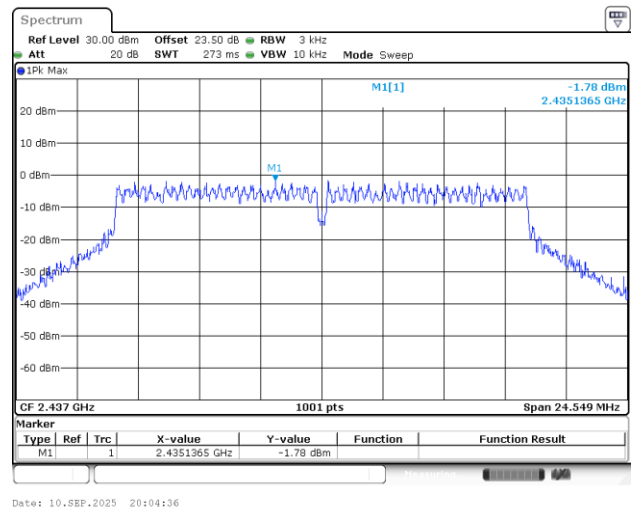
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**Power Spectral Density(dBm/3kHz)**

&lt;802.11b&gt;

**Maximum Power Density Plot (dBm/3kHz)****MIMO Ant 1****MIMO Ant 2**

&lt;802.11g&gt;

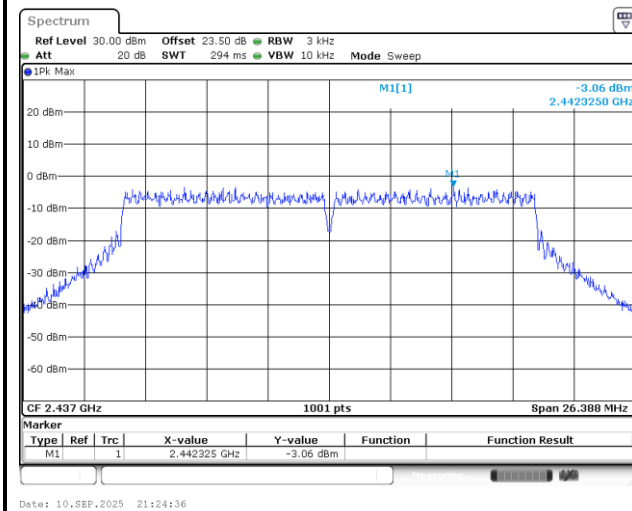
**Maximum Power Density Plot (dBm/3kHz)****MIMO Ant 1****MIMO Ant 2**



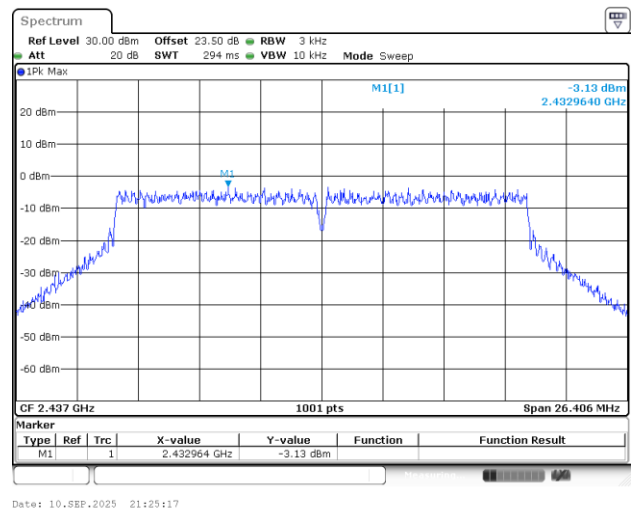
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## Maximum Power Density Plot (dBm/3kHz)

MIMO Ant 1



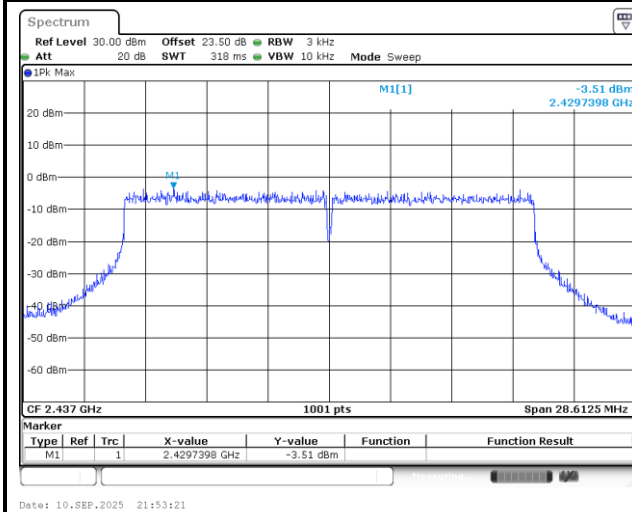
MIMO Ant 2



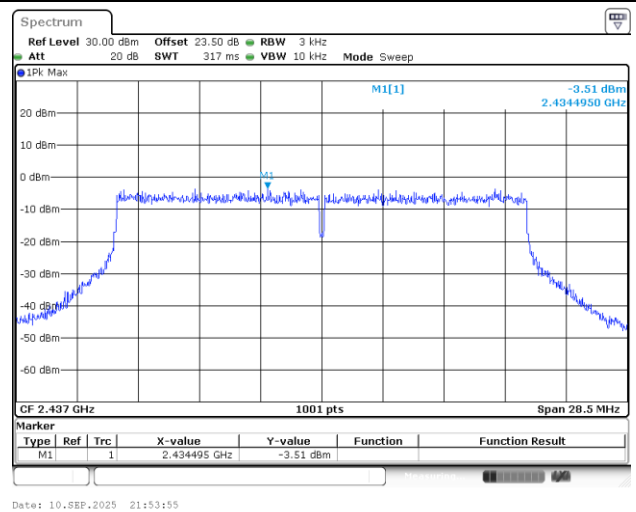
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## Maximum Power Density Plot (dBm/3kHz)

MIMO Ant 1

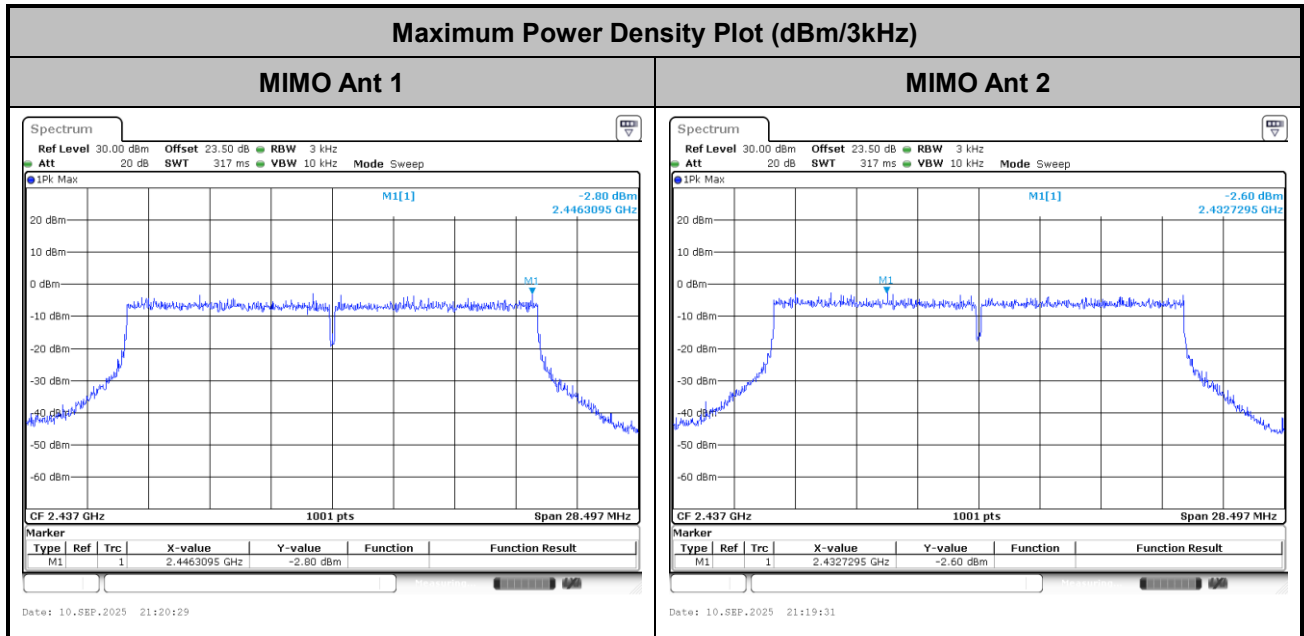


MIMO Ant 2





<802.11be20>



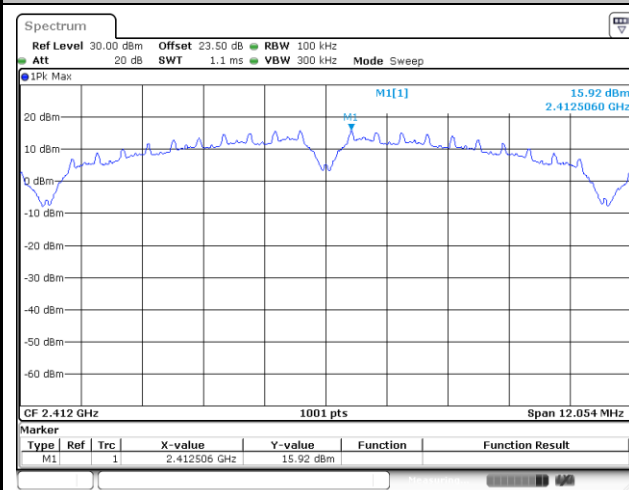
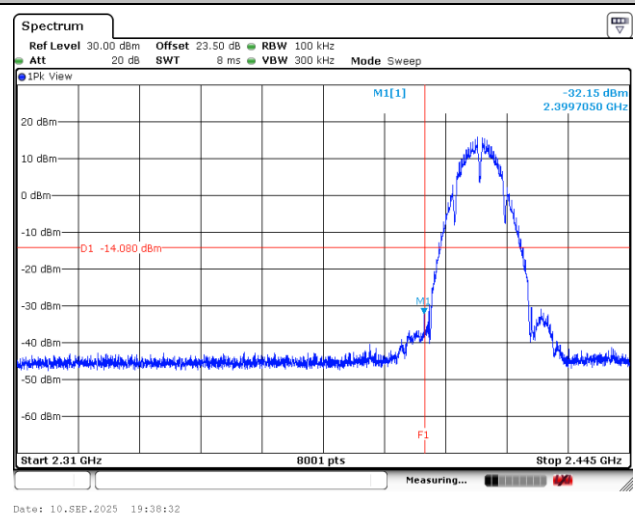
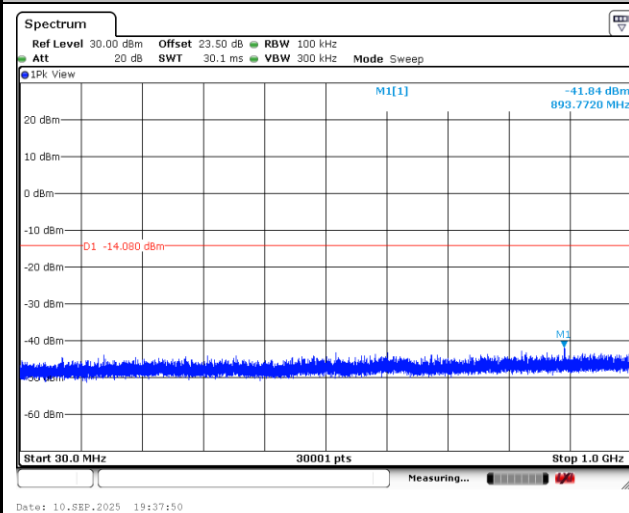
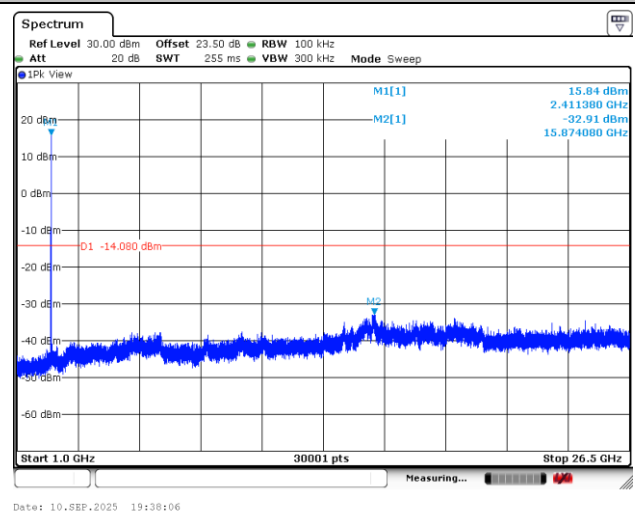


**Band Edges and Spurious Emission**

Number of TX = 2, Ant. 1 (Measured)

Test Mode : 802.11b

Test Channel : 01

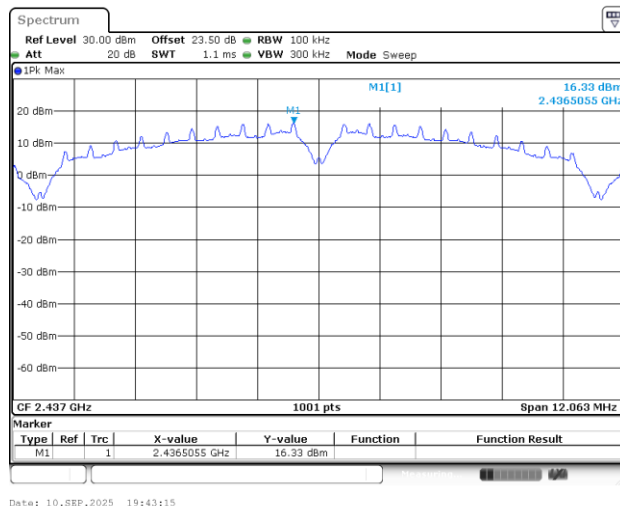
**100kHz PSD reference Level****Channel 01 Plot****Spurious Emission 30MHz~1GHz****Spurious Emission 1GHz~26.5GHz**



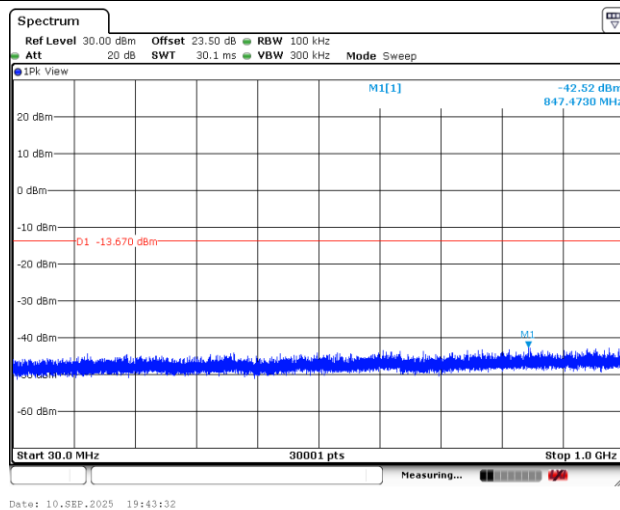
Test Mode : 802.11b

Test Channel : 06

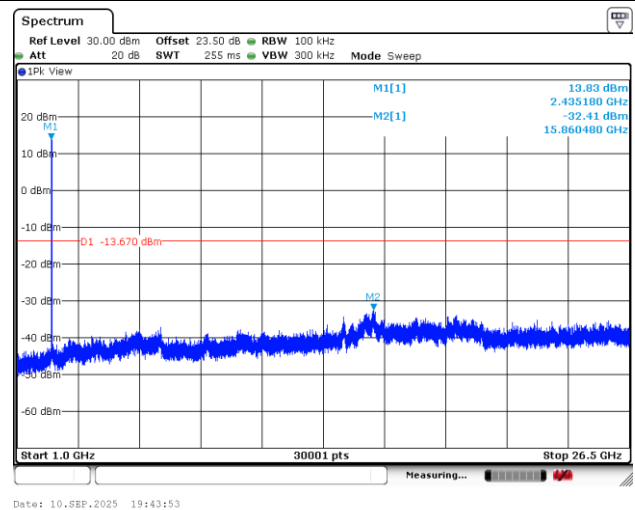
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

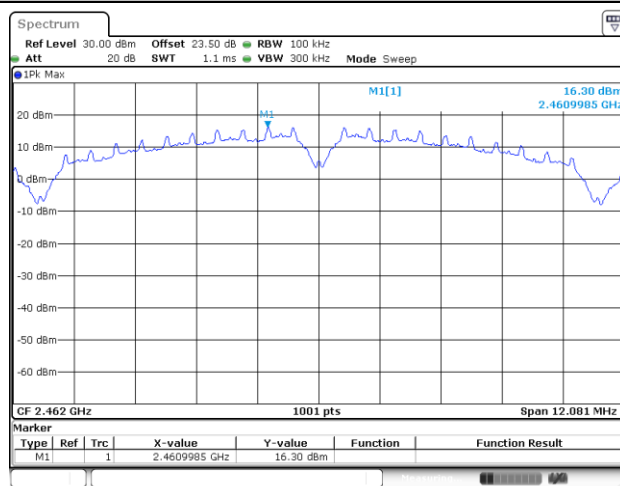




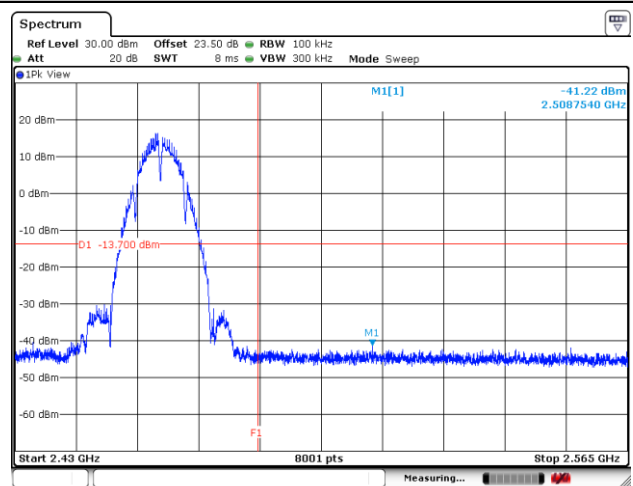
Test Mode : 802.11b

Test Channel : 11

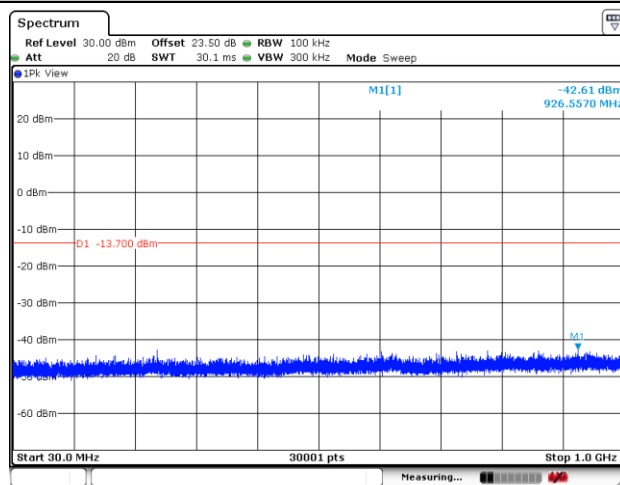
## 100kHz PSD reference Level



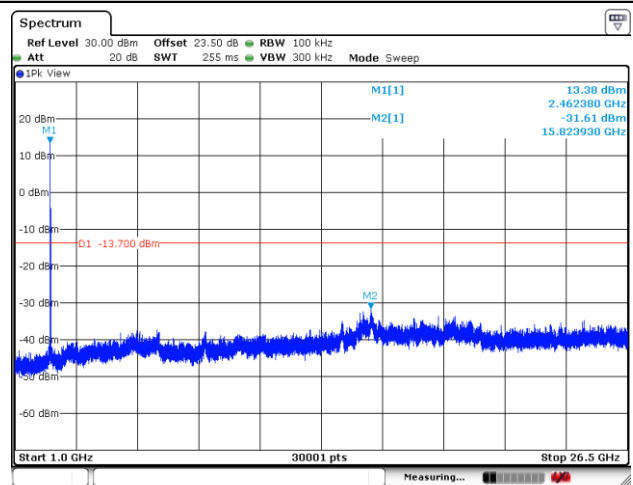
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

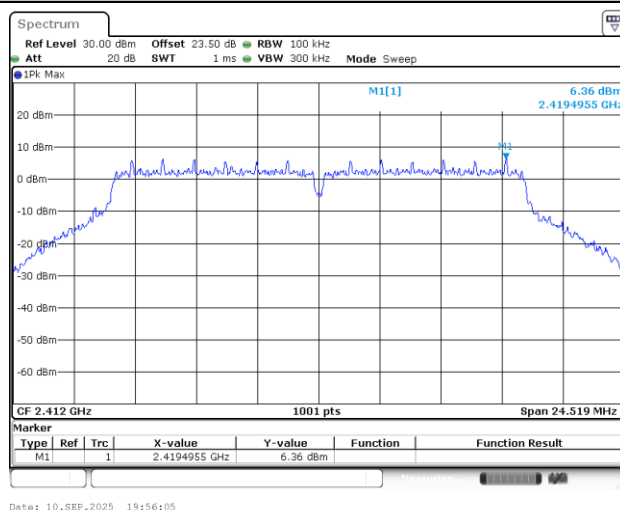




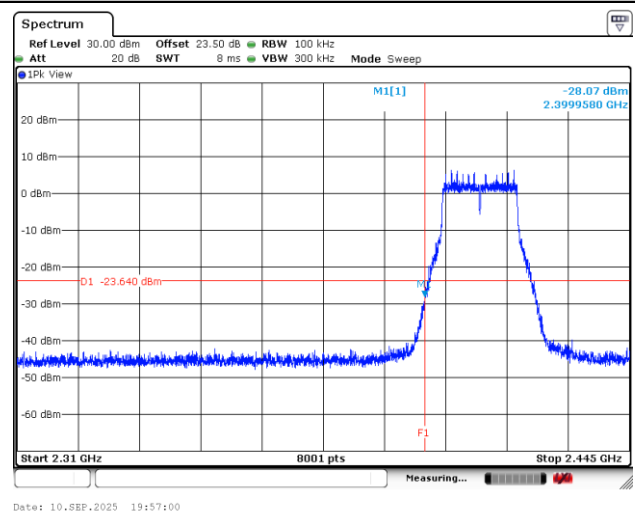
Test Mode : 802.11g

Test Channel : 01

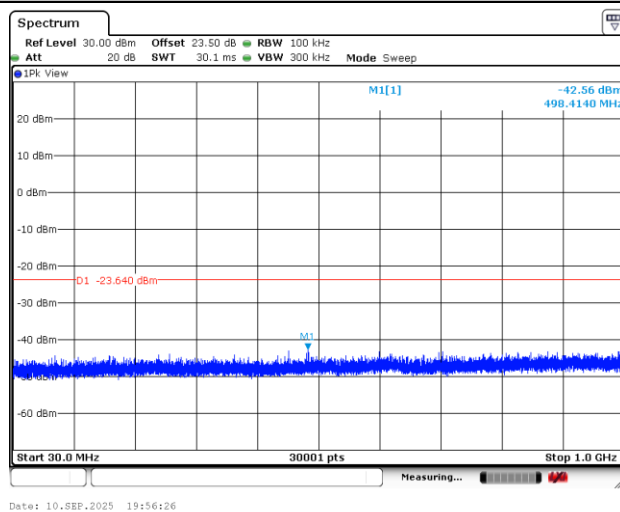
## 100kHz PSD reference Level



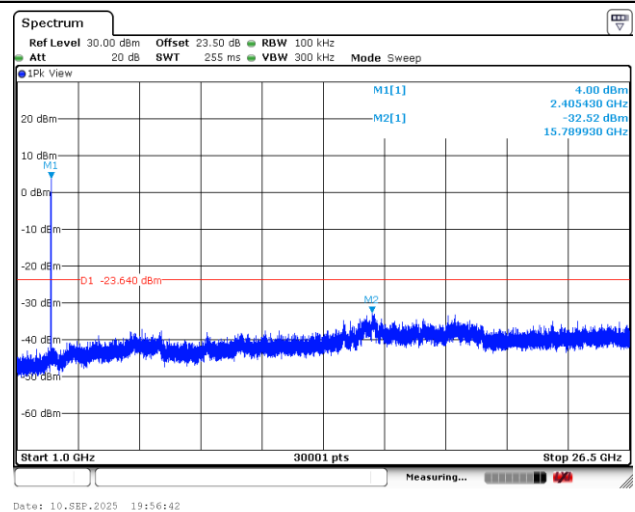
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

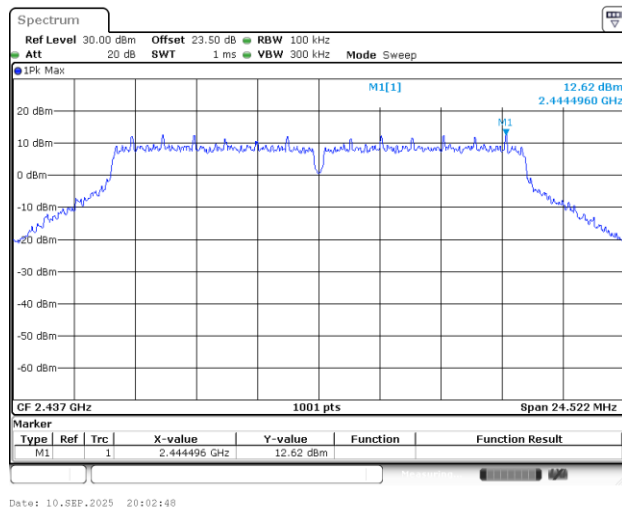




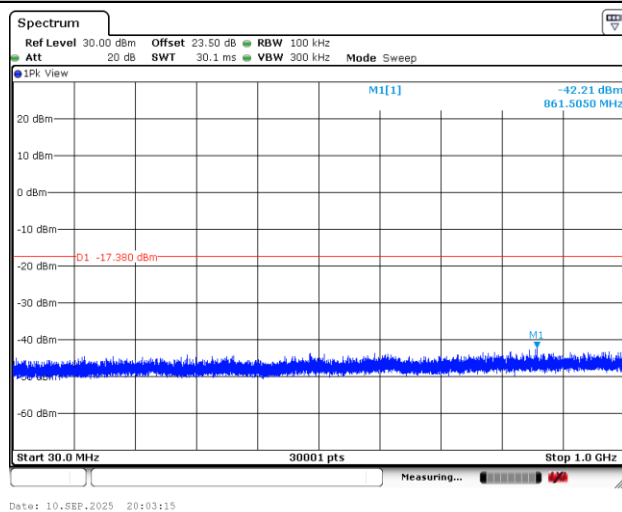
Test Mode : 802.11g

Test Channel : 06

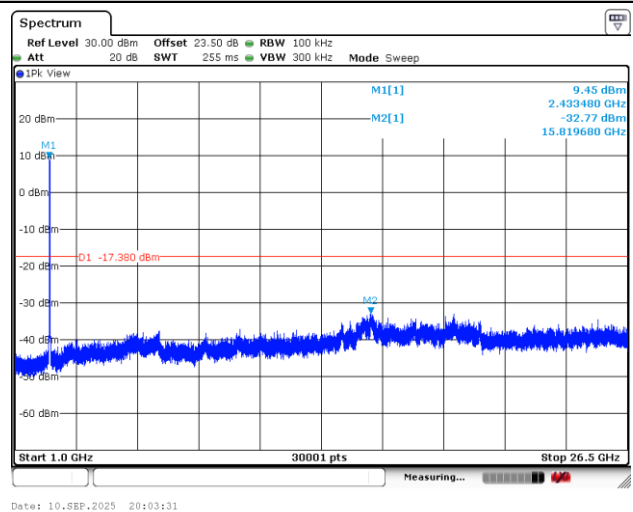
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

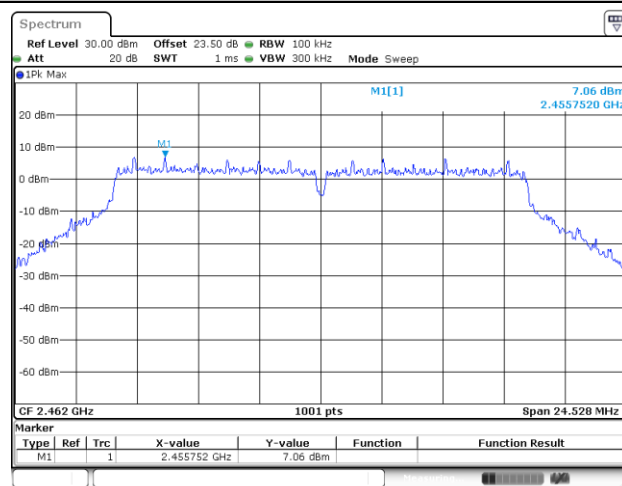




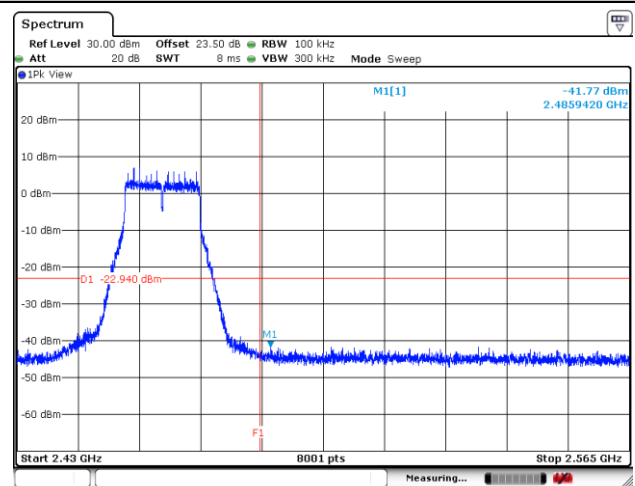
Test Mode : 802.11g

Test Channel : 11

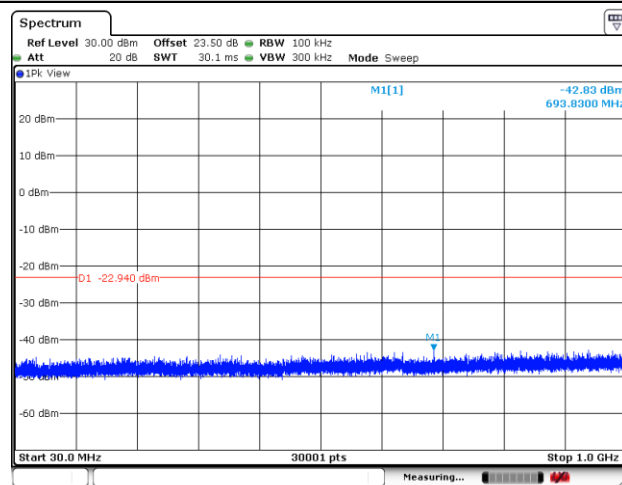
## 100kHz PSD reference Level



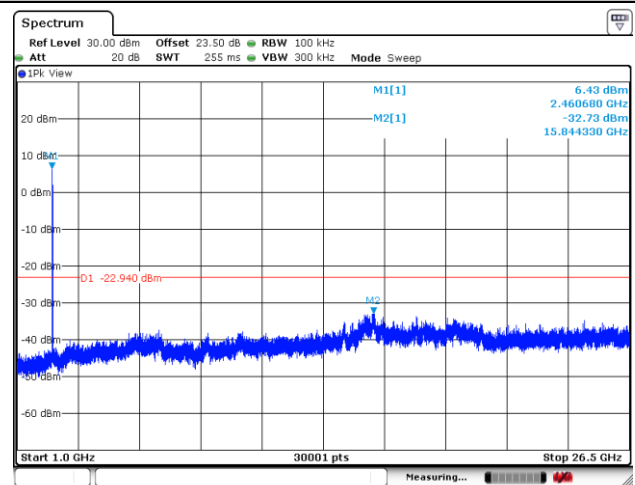
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

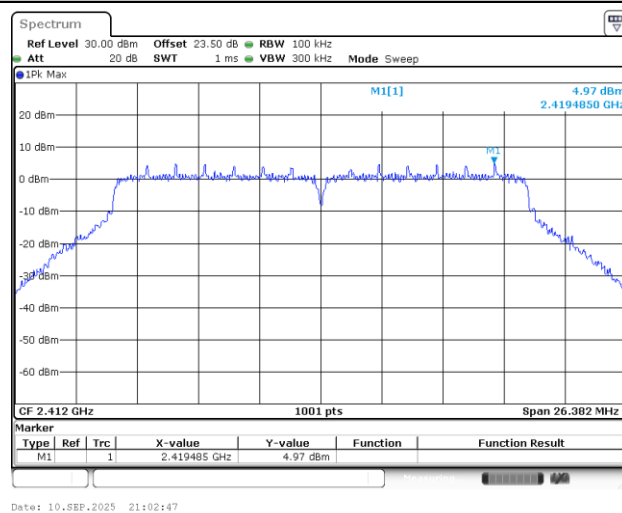




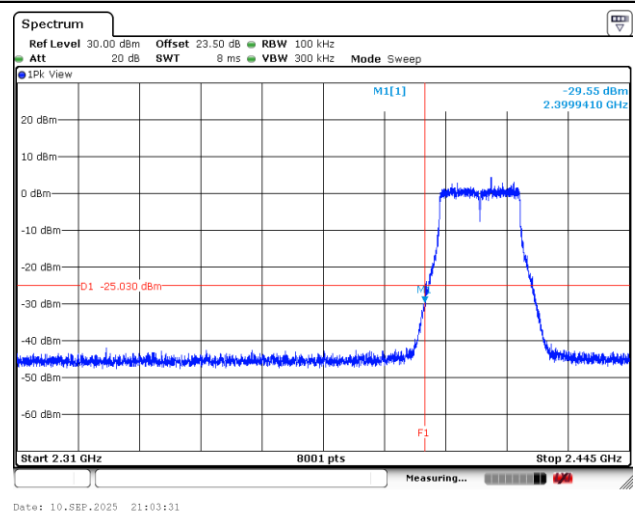
Test Mode : 802.11gN20

Test Channel : 01

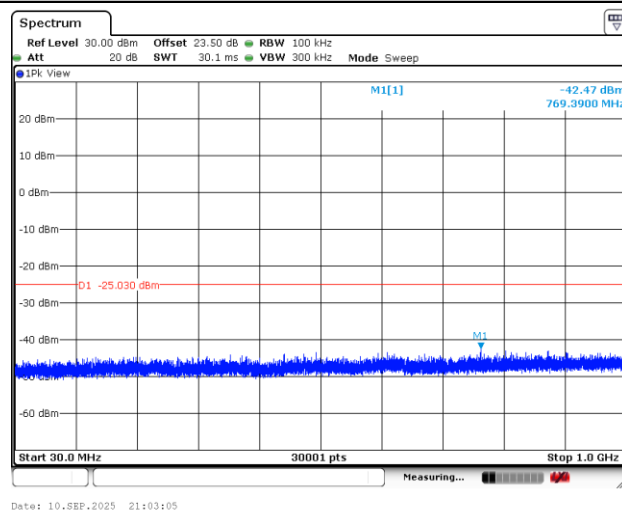
## 100kHz PSD reference Level



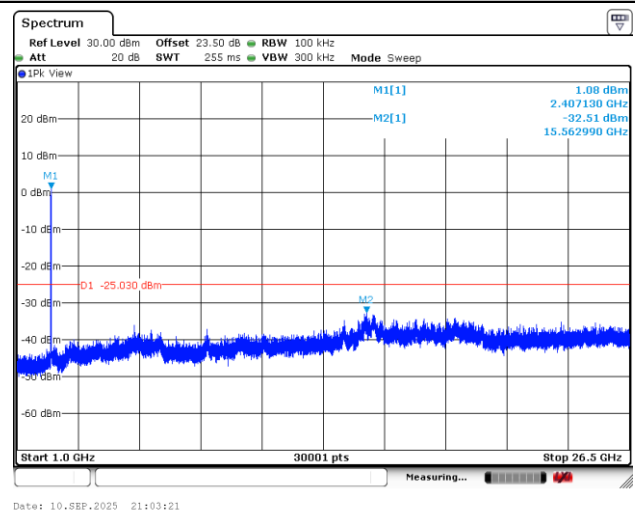
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

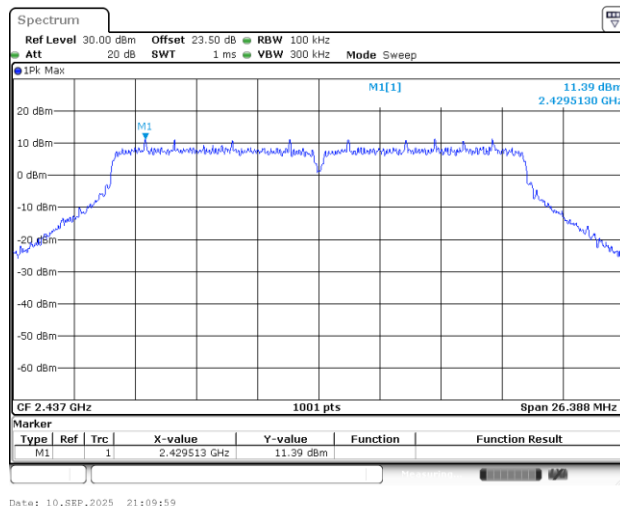




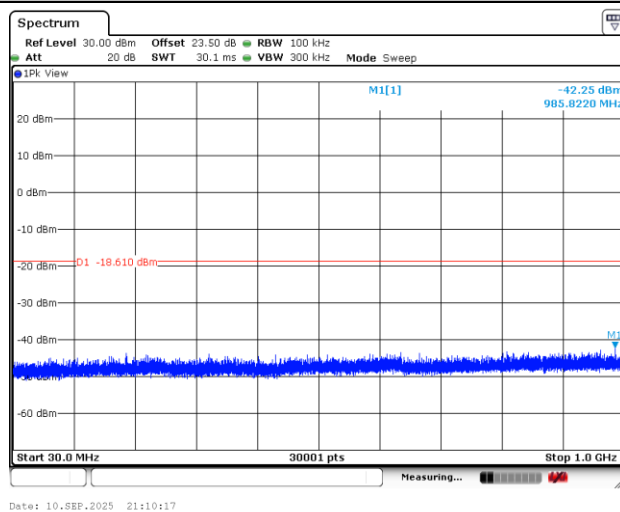
Test Mode : 802.11gN20

Test Channel : 06

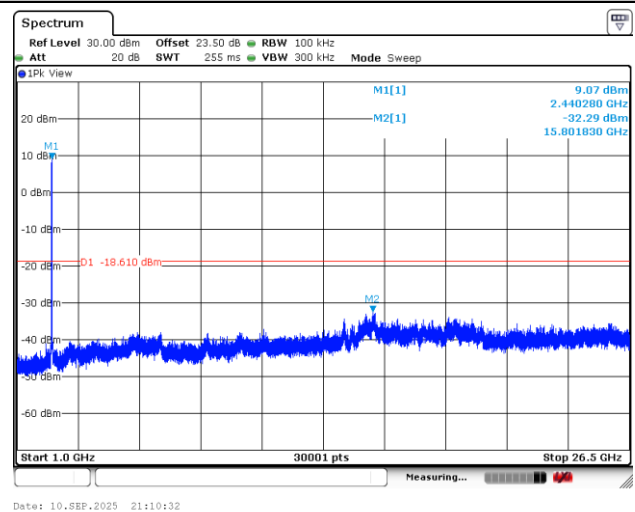
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz



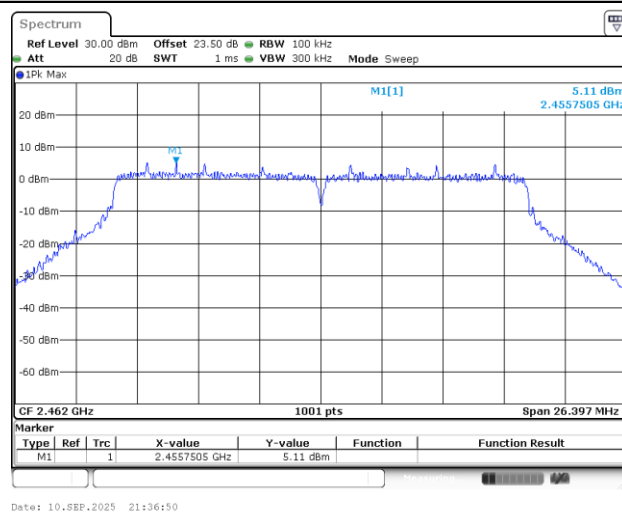




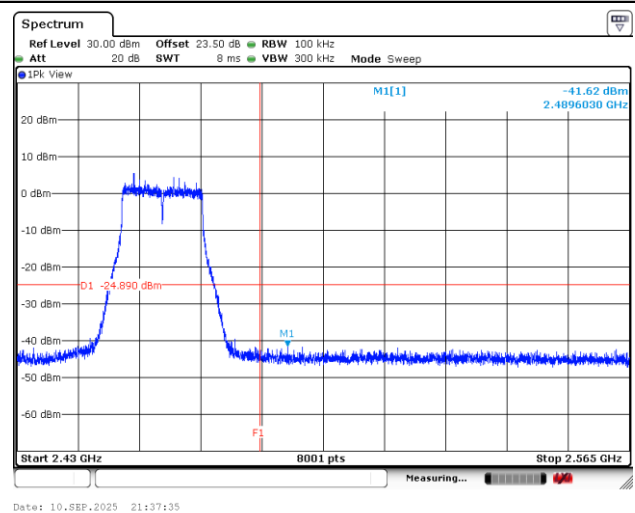
Test Mode : 802.11gN20

Test Channel : 11

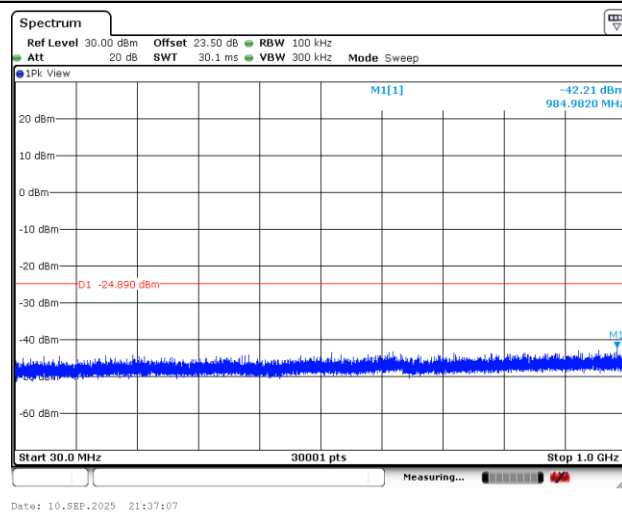
## 100kHz PSD reference Level



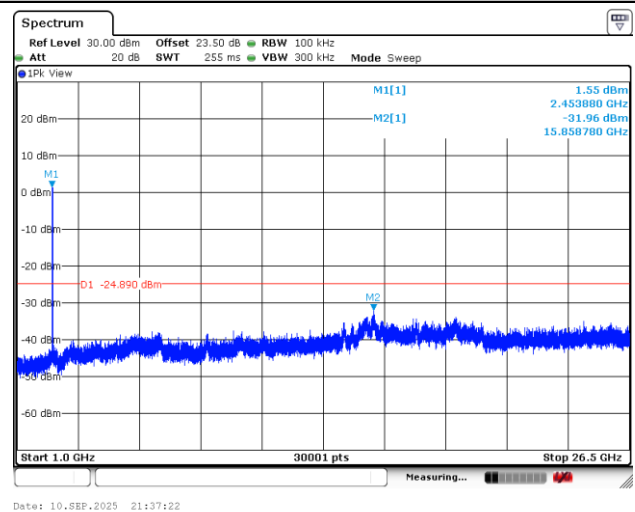
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

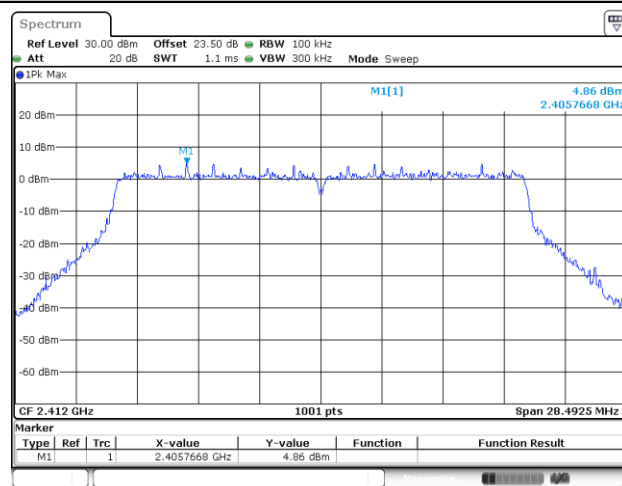




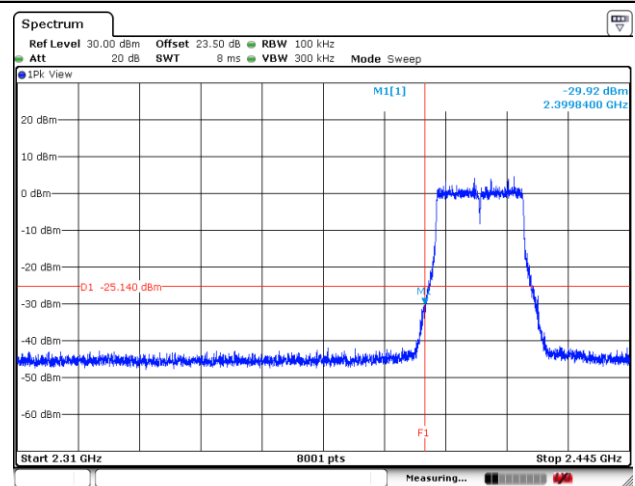
Test Mode : 802.11be20\_FullIRU

Test Channel : 01

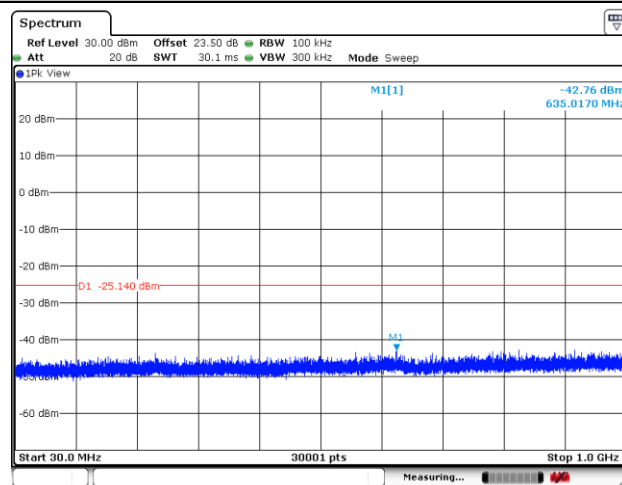
## 100kHz PSD reference Level



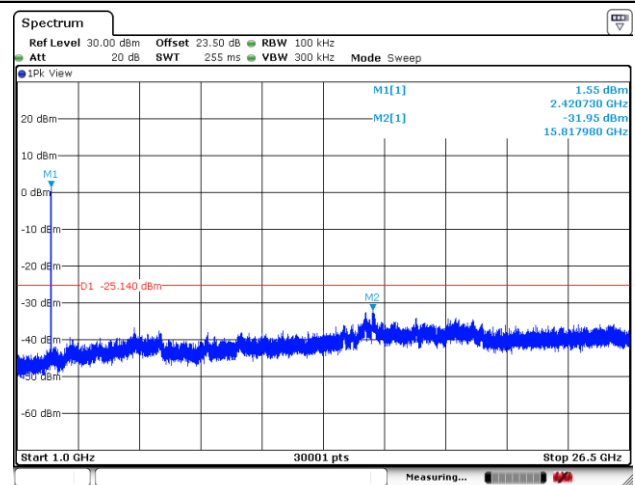
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

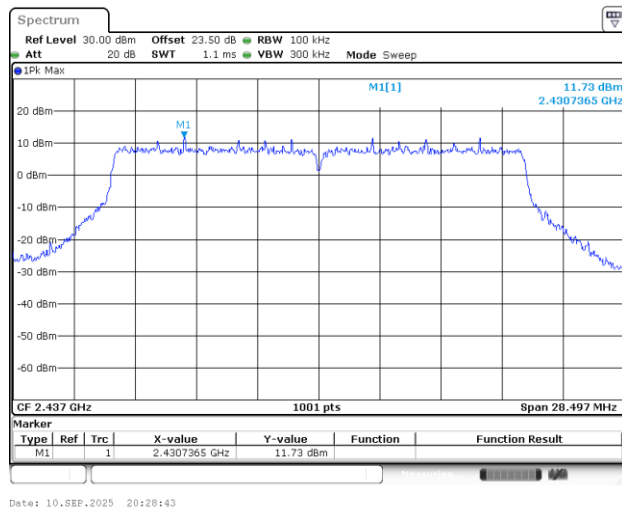




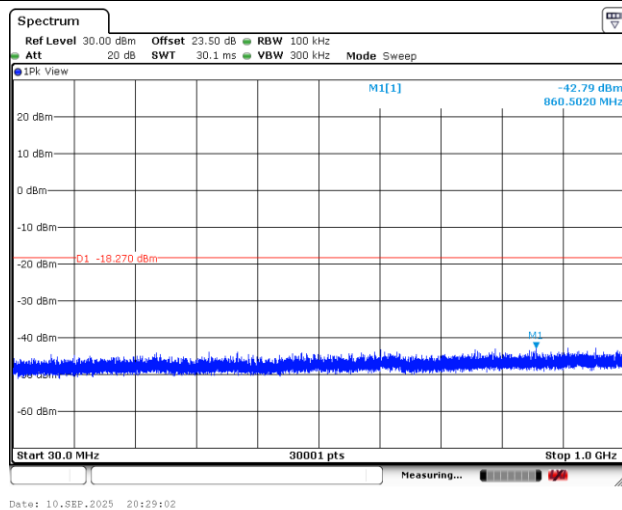
Test Mode : 802.11be20\_FullIRU

Test Channel : 06

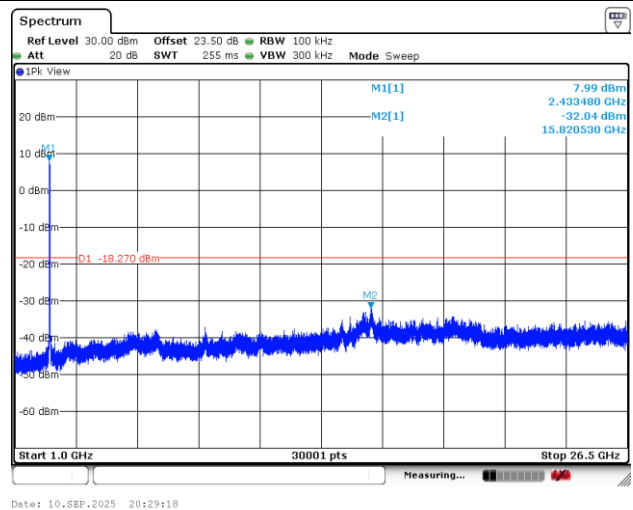
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

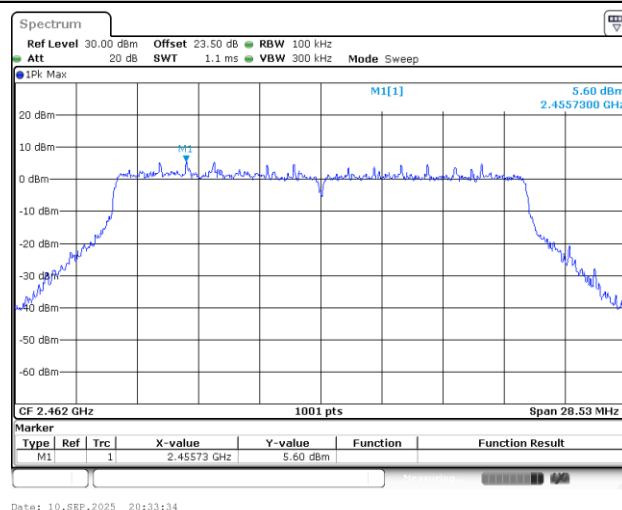




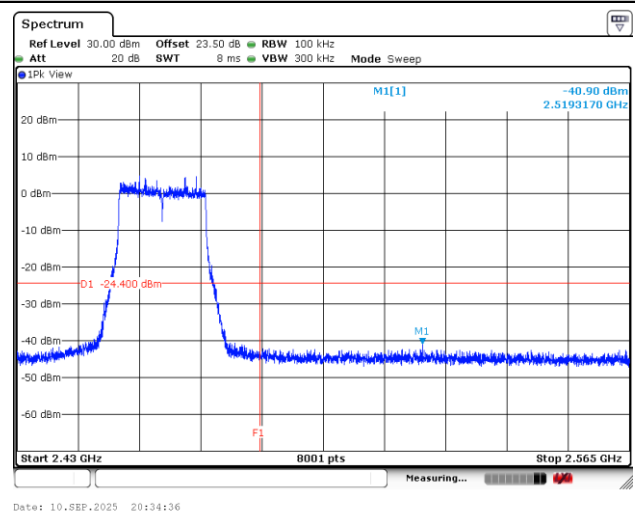
Test Mode : 802.11be20\_FullIRU

Test Channel : 11

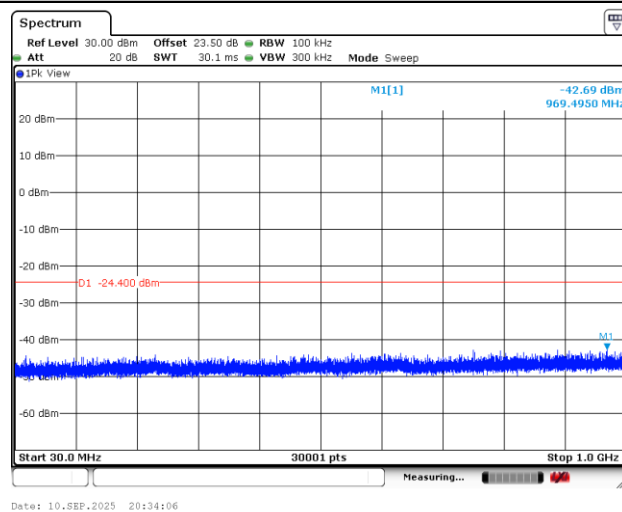
## 100kHz PSD reference Level



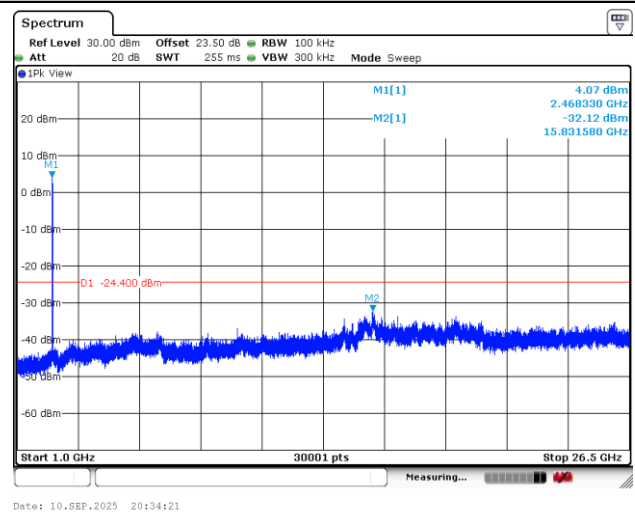
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz



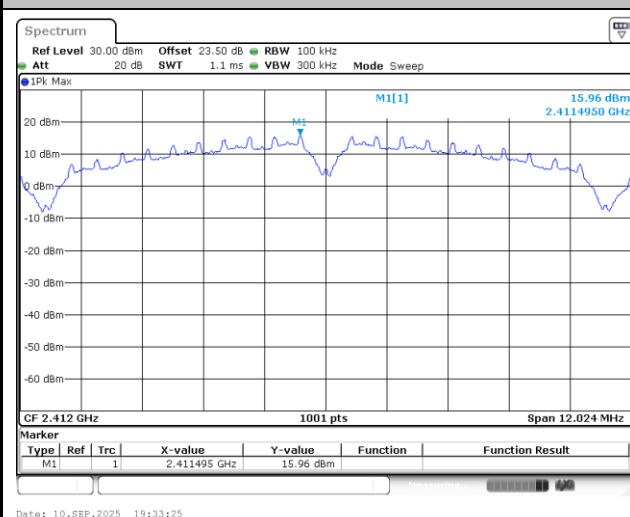


Number of TX = 2, Ant. 2 (Measured)

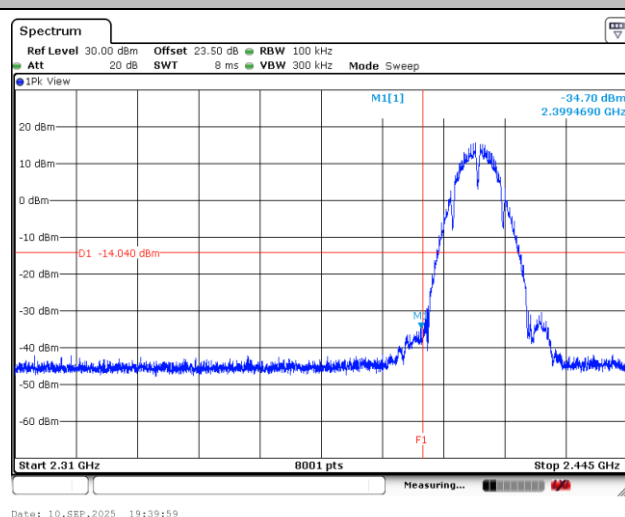
Test Mode : 802.11b

Test Channel : 01

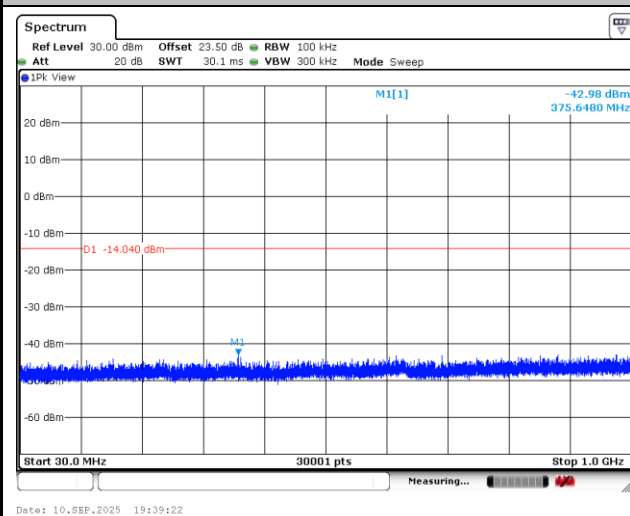
## 100kHz PSD reference Level



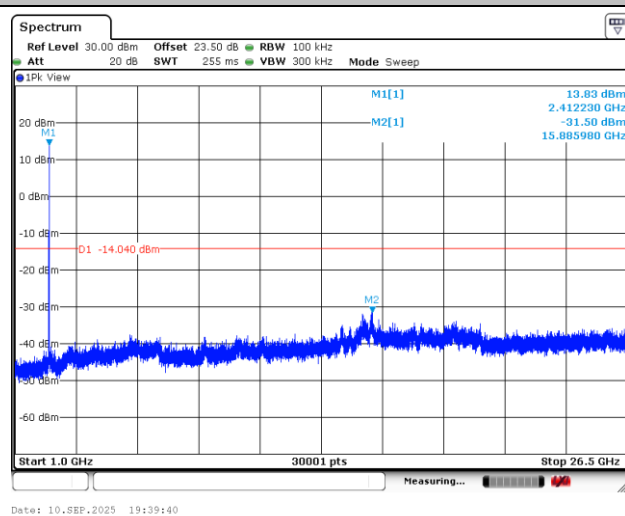
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

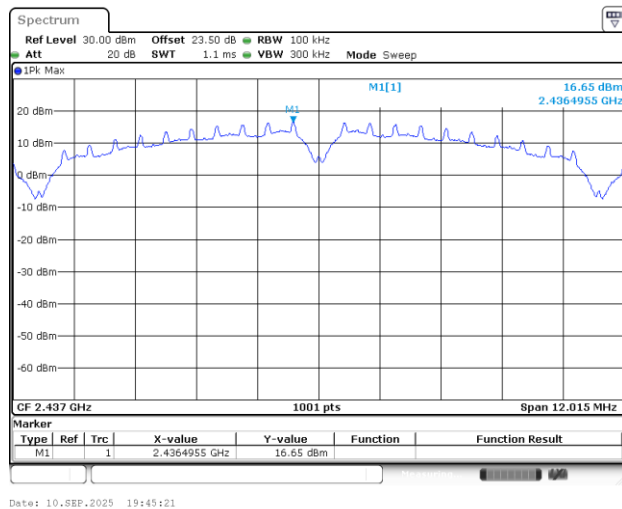




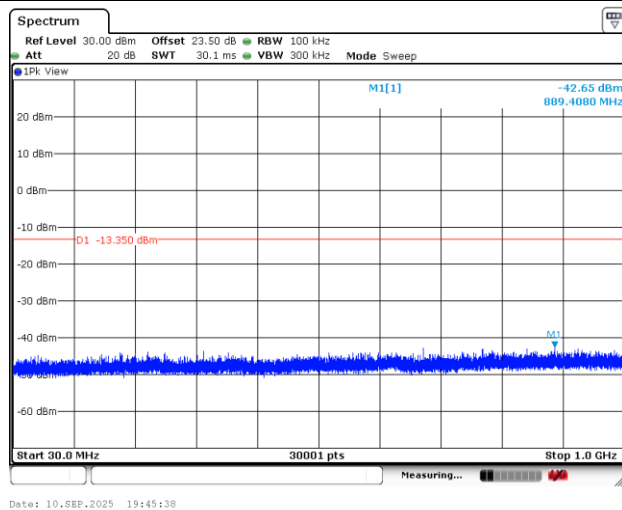
Test Mode : 802.11b

Test Channel : 06

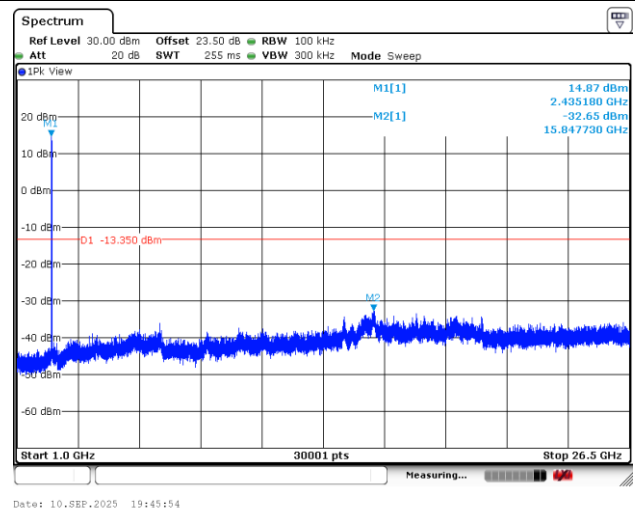
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

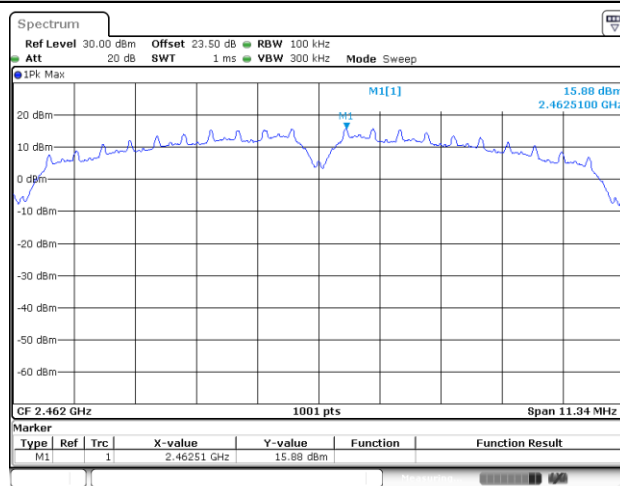




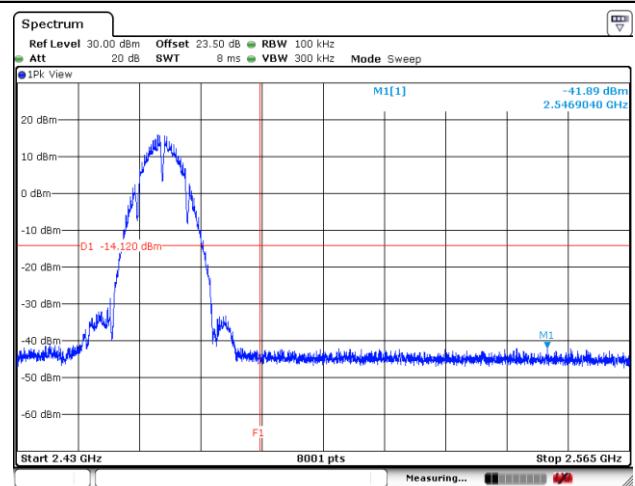
Test Mode : 802.11b

Test Channel : 11

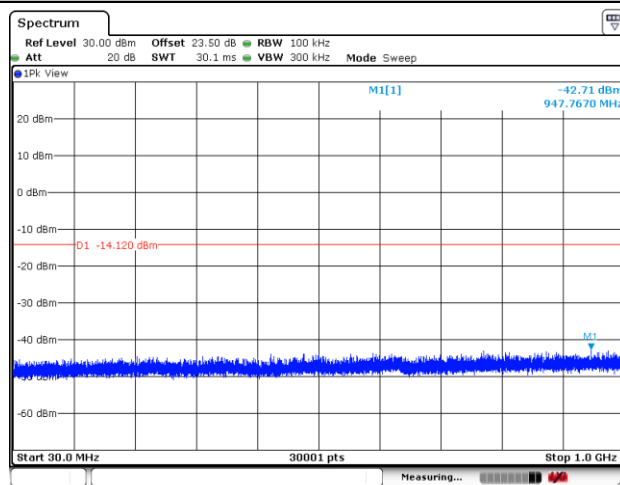
## 100kHz PSD reference Level



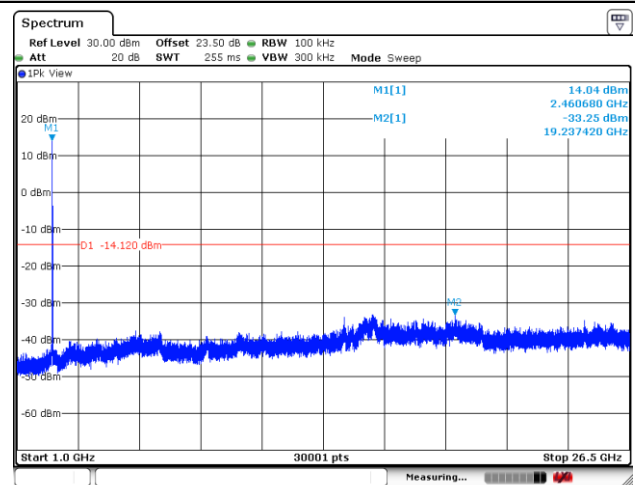
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

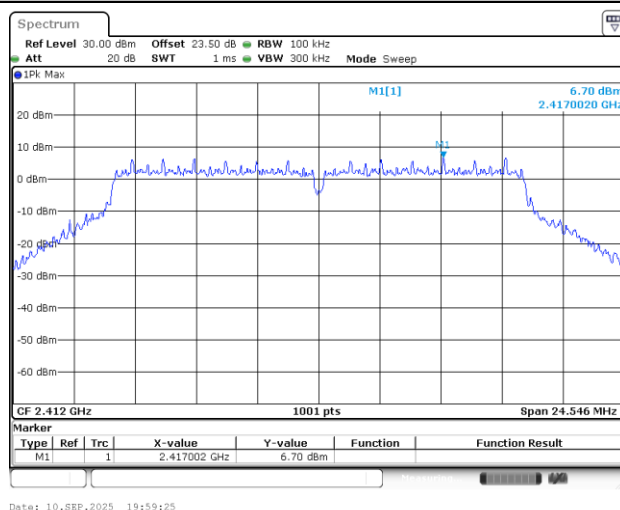




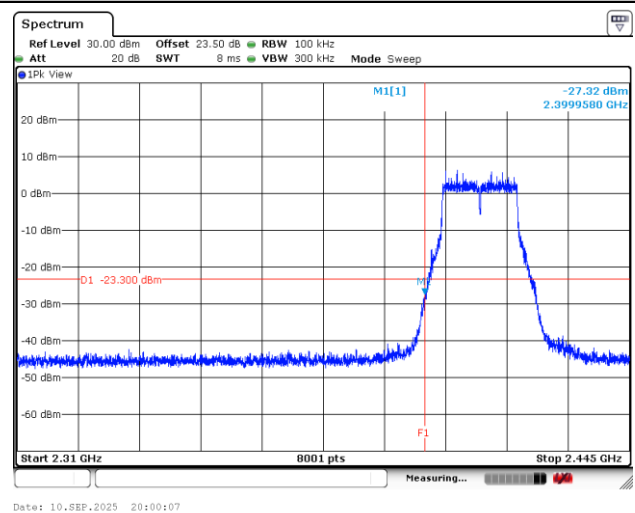
Test Mode : 802.11g

Test Channel : 01

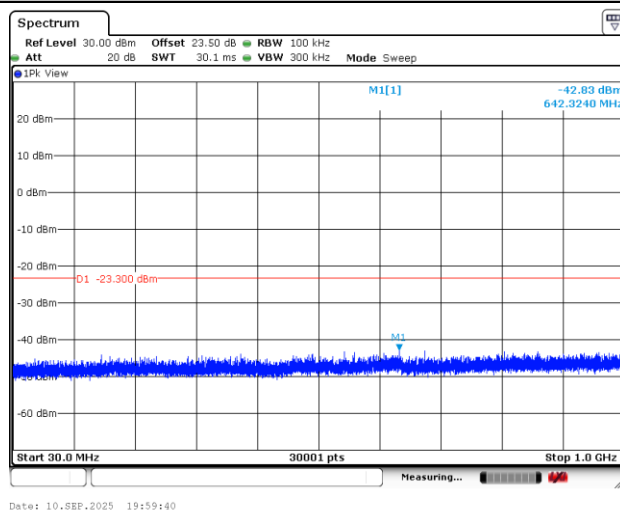
## 100kHz PSD reference Level



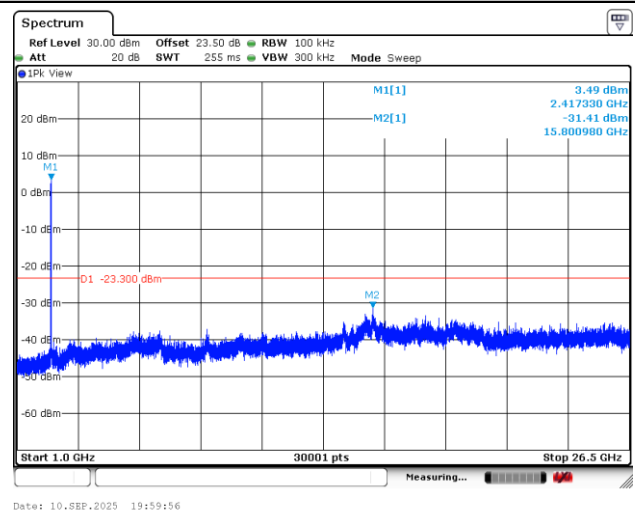
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz



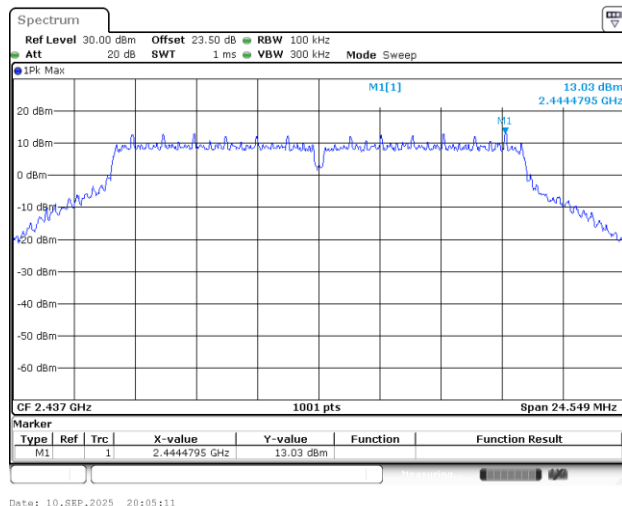




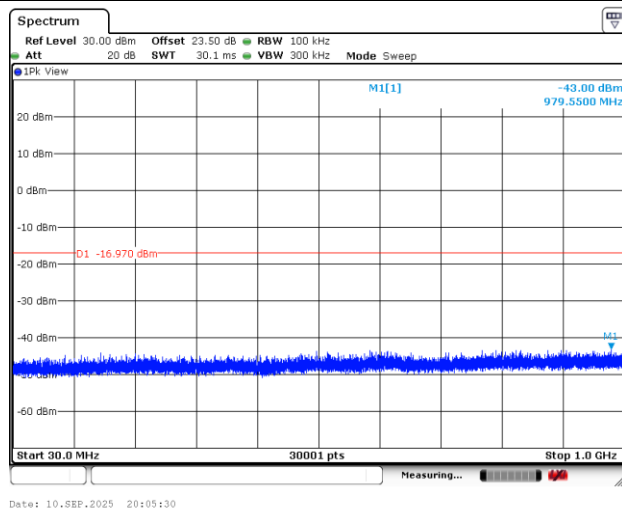
Test Mode : 802.11g

Test Channel : 06

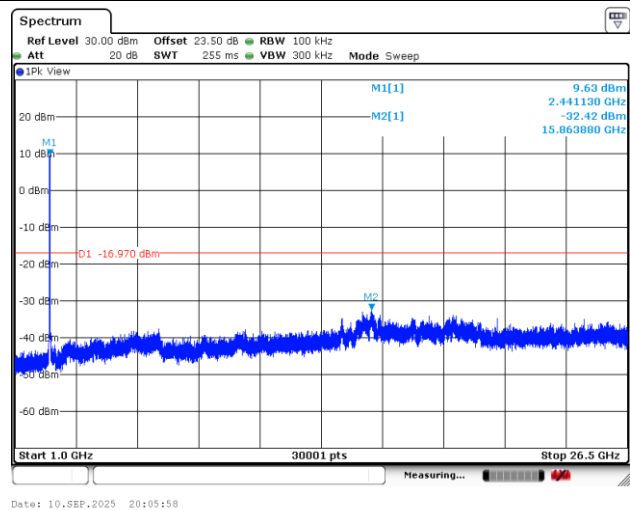
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

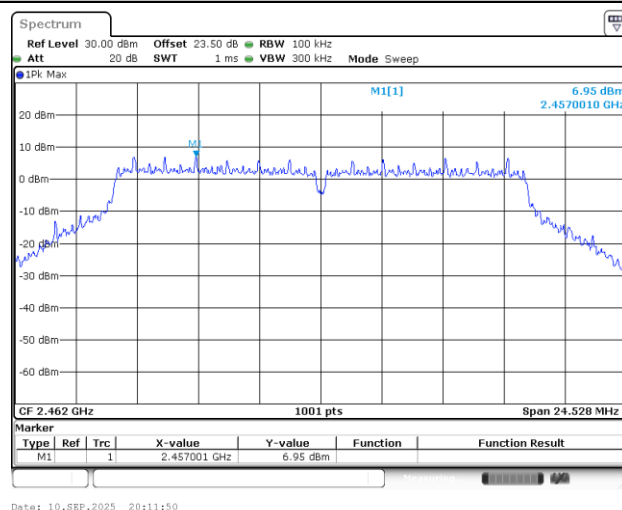




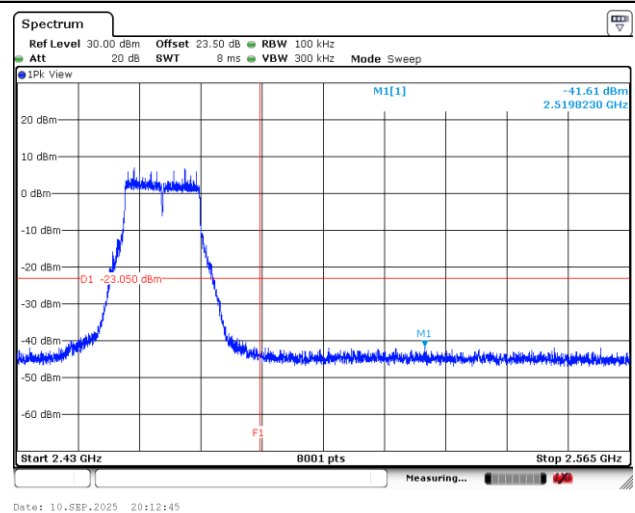
Test Mode : 802.11g

Test Channel : 11

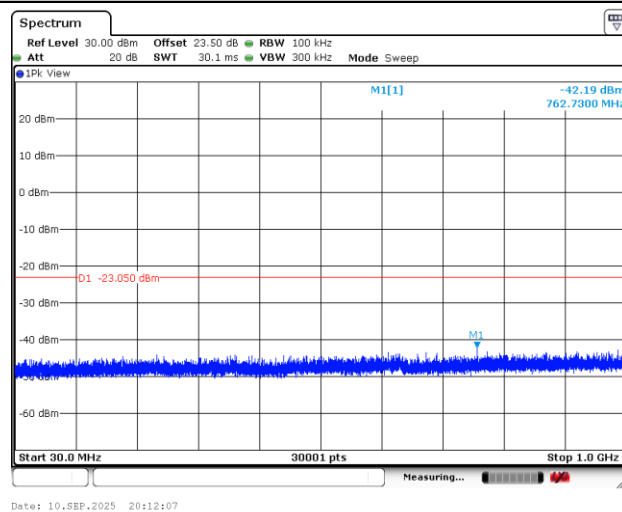
## 100kHz PSD reference Level



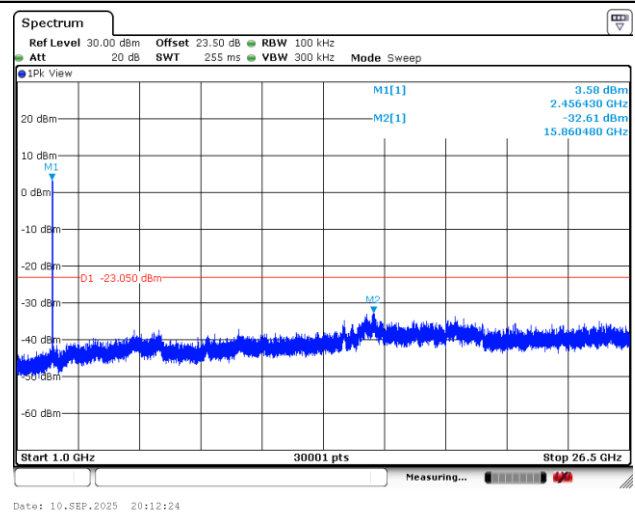
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

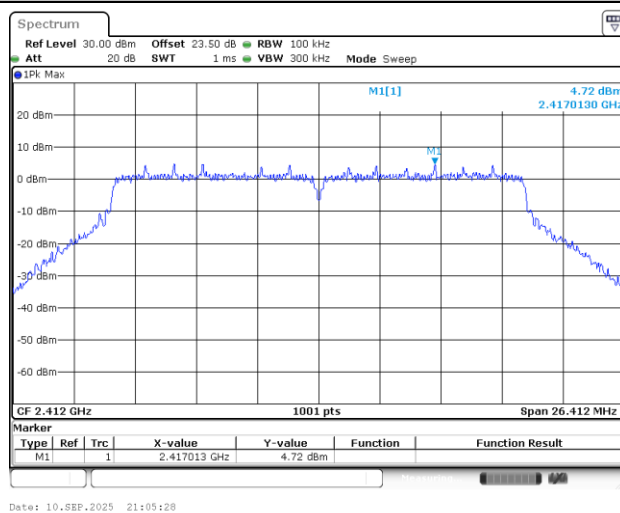




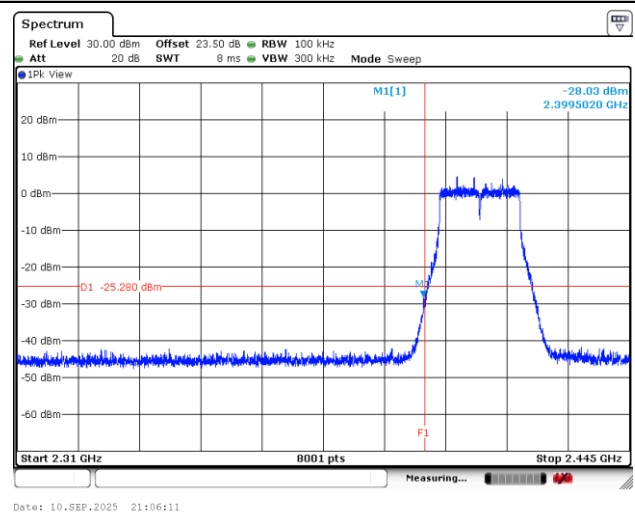
Test Mode : 802.11gN20

Test Channel : 01

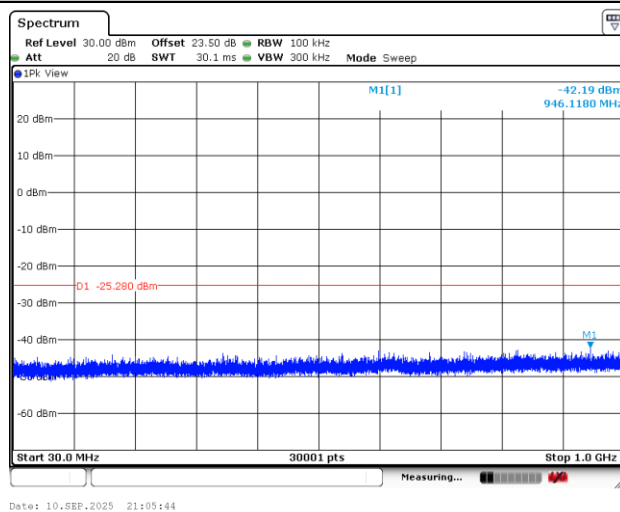
## 100kHz PSD reference Level



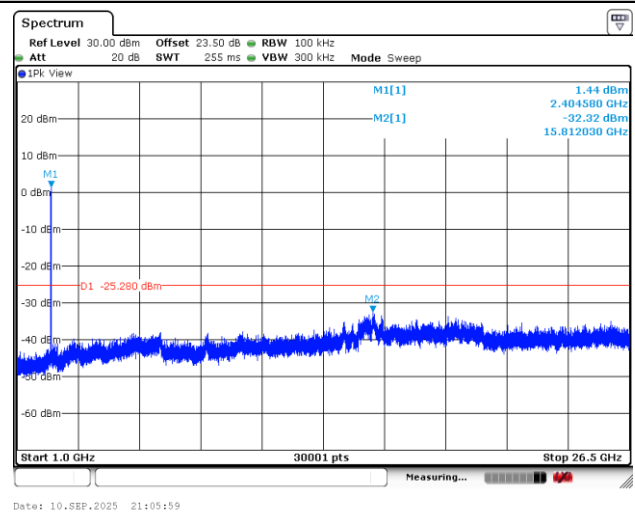
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

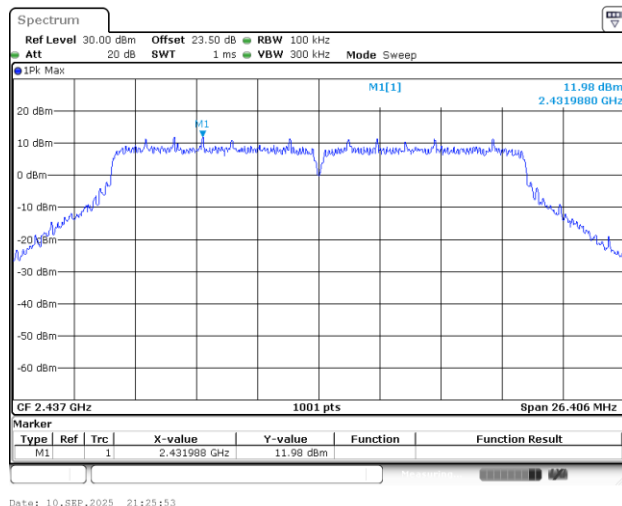




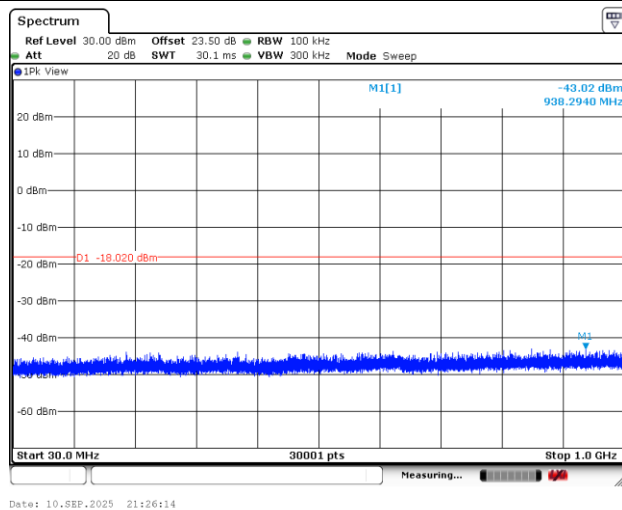
Test Mode : 802.11gN20

Test Channel : 06

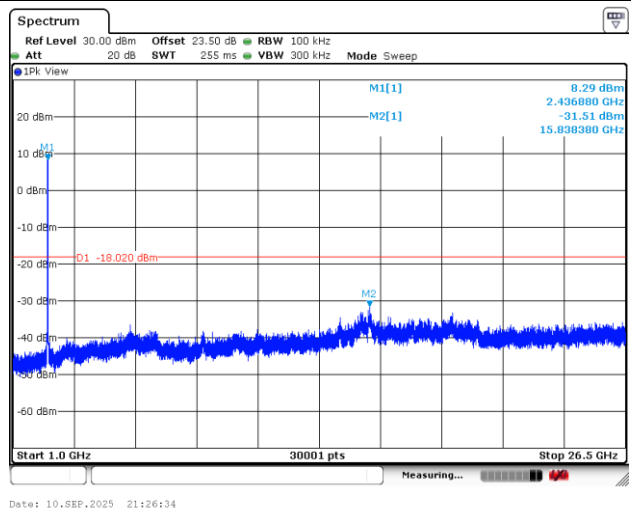
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

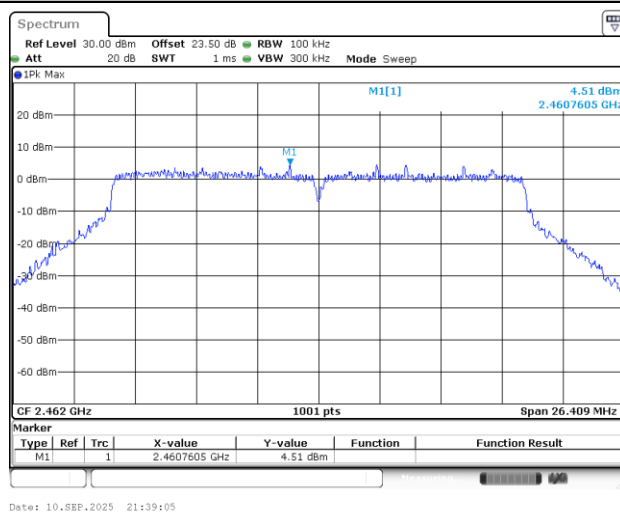




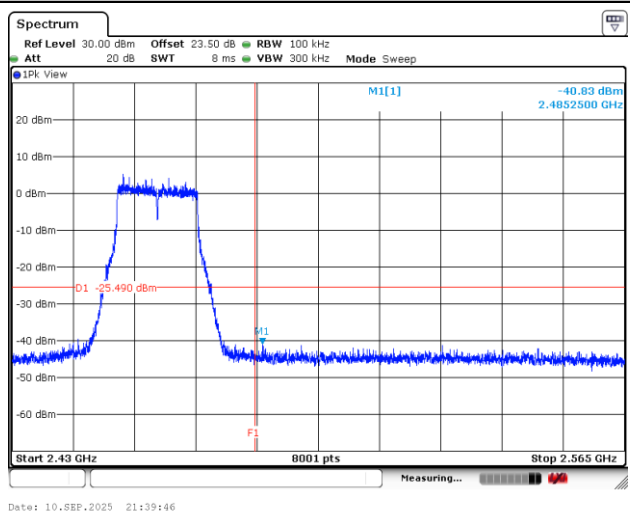
Test Mode : 802.11gN20

Test Channel : 11

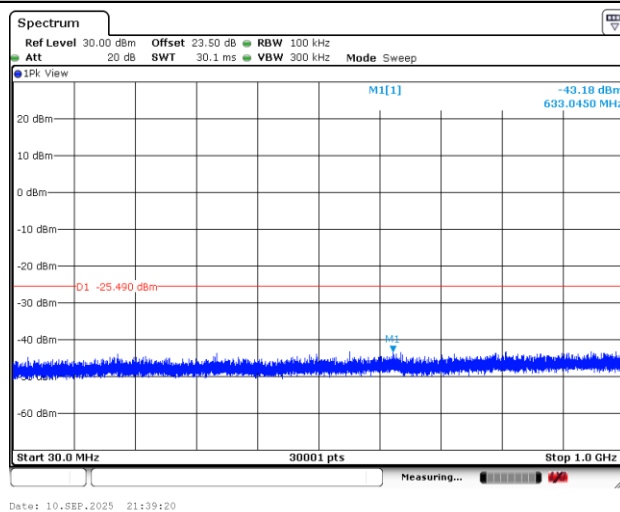
## 100kHz PSD reference Level



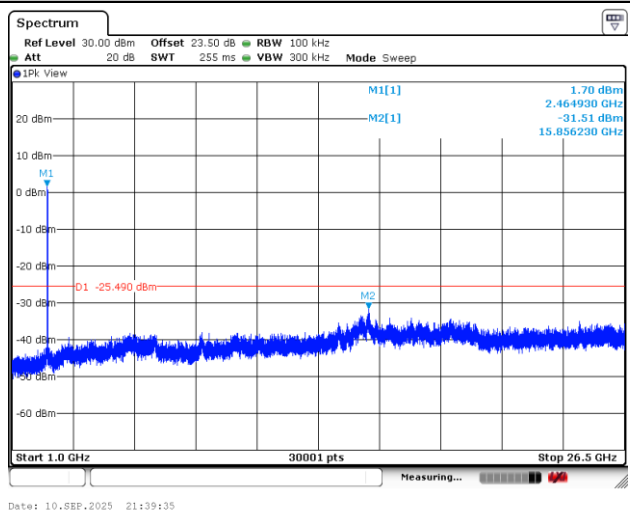
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

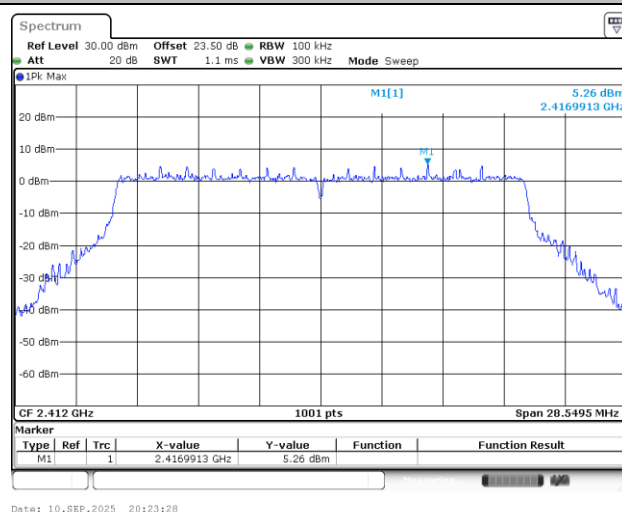




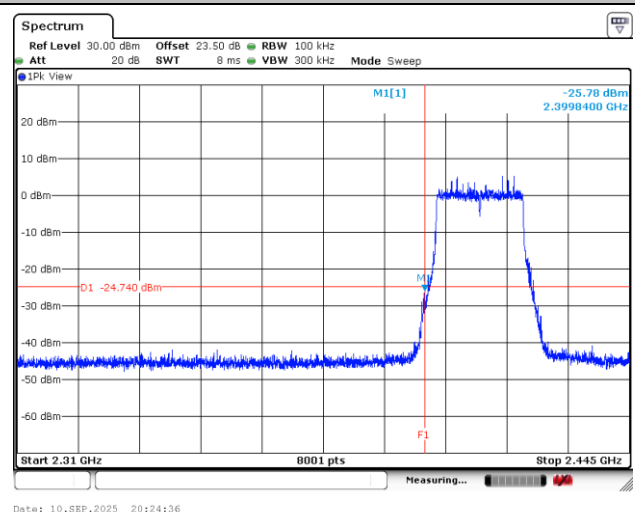
Test Mode : 802.11be20\_FullIRU

Test Channel : 01

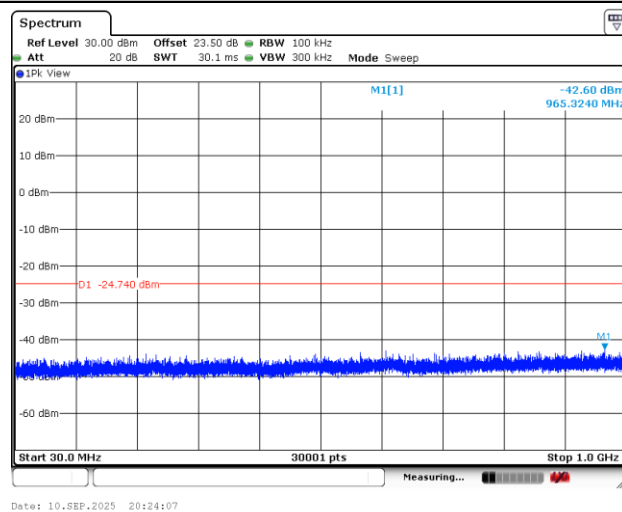
## 100kHz PSD reference Level



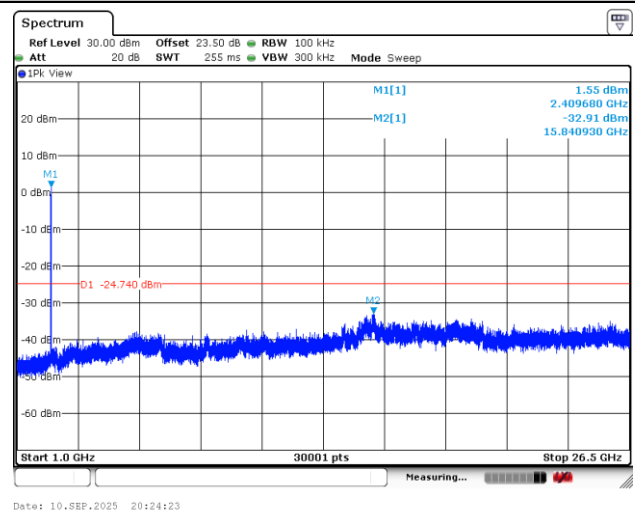
## Channel 01 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

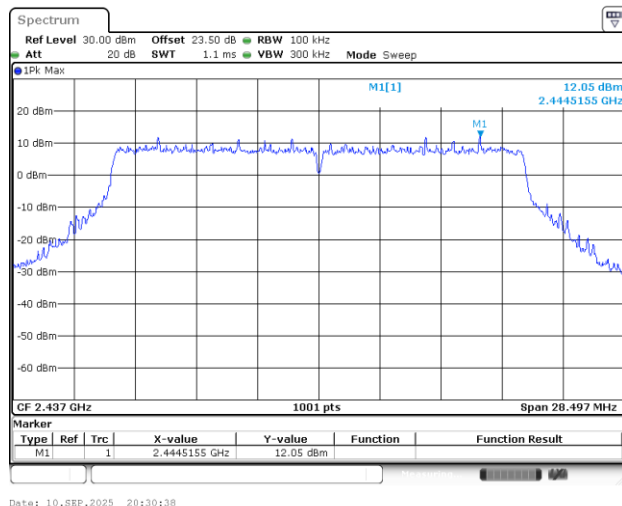




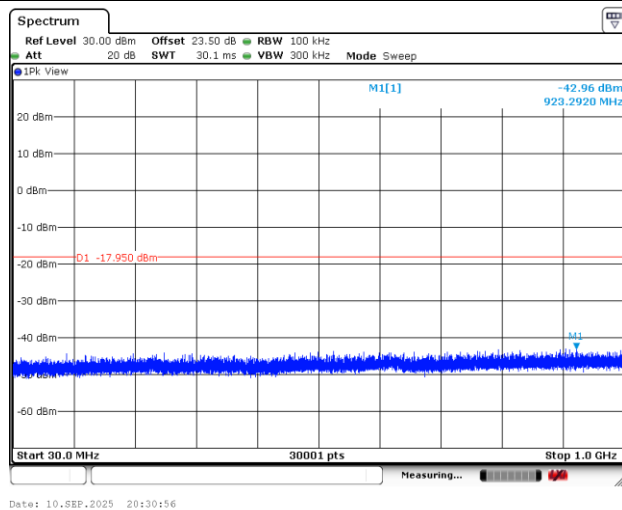
Test Mode : 802.11be20\_FullIRU

Test Channel : 06

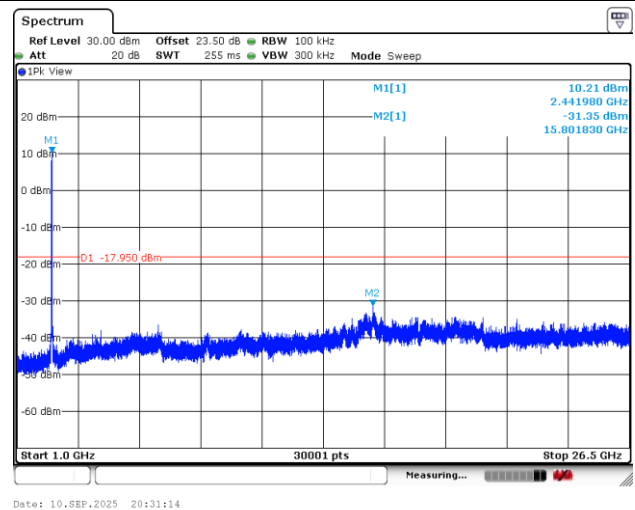
## 100kHz PSD reference Level



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz

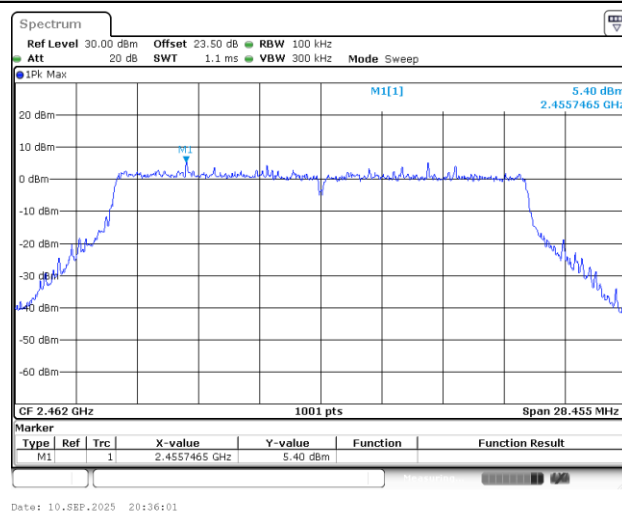




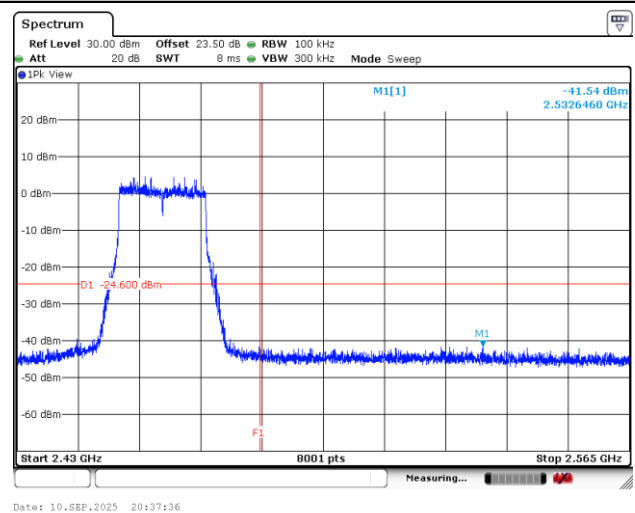
Test Mode : 802.11be20\_FullIRU

Test Channel : 11

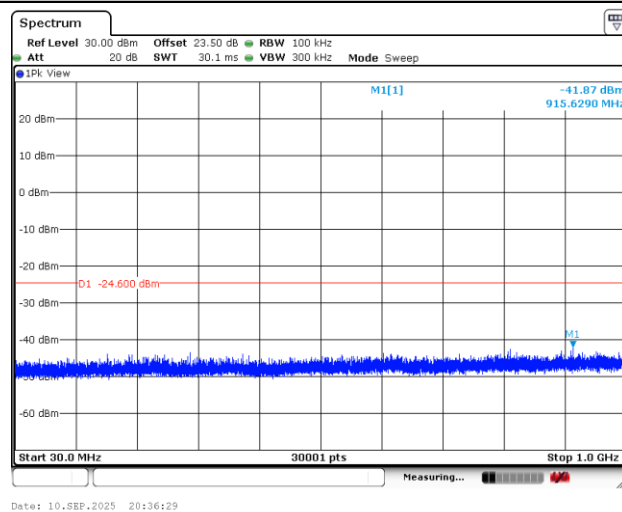
## 100kHz PSD reference Level



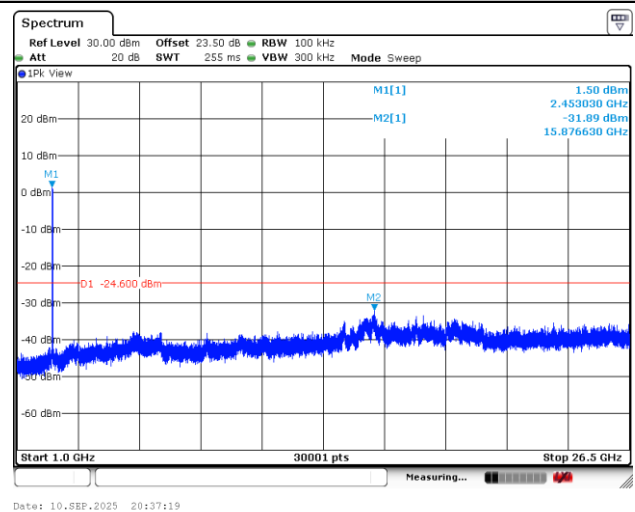
## Channel 11 Plot



## Spurious Emission 30MHz~1GHz



## Spurious Emission 1GHz~26.5GHz







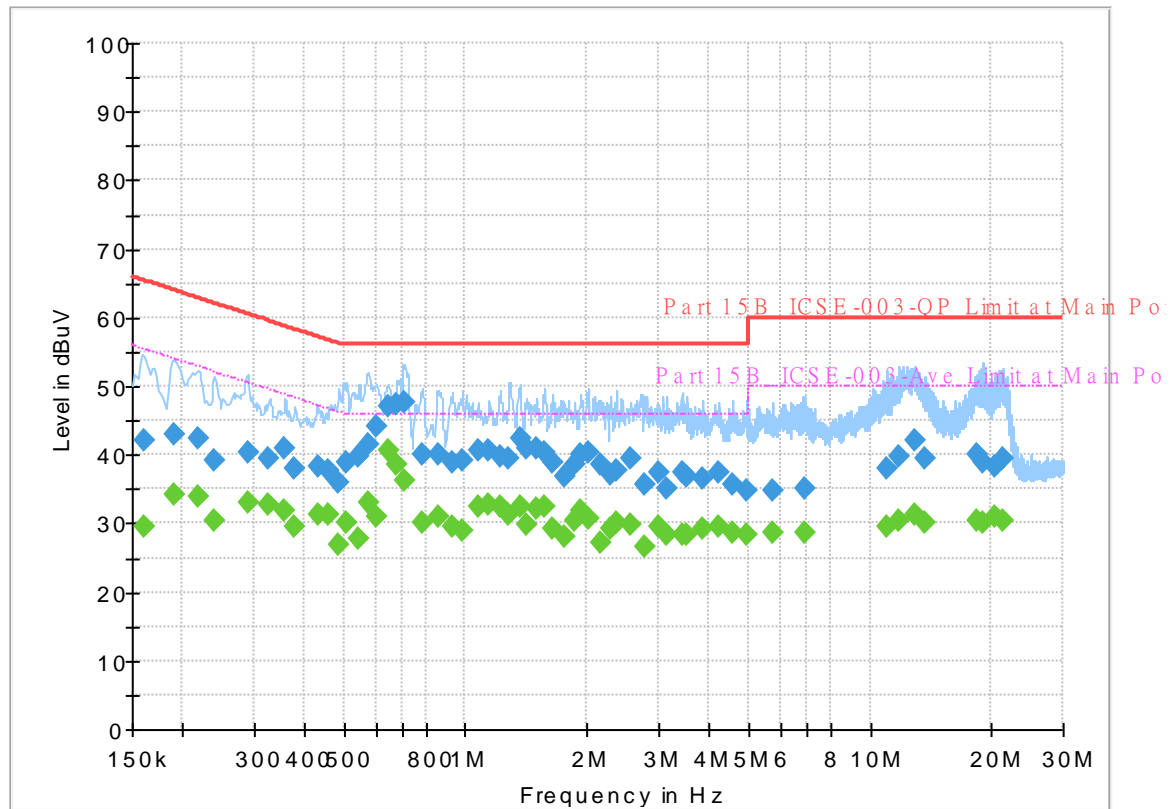
## **Appendix B. AC Conducted Emission Test Results**

<b>Test Engineer :</b>	Calvin Wang	<b>Temperature :</b>	23~26°C
		<b>Relative Humidity :</b>	45~55%

## EUT Information

Report NO : 4N2601  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	29.60	55.40	25.80	L1	OFF	19.8
0.161250	42.20	---	65.40	23.20	L1	OFF	19.8
0.190500	---	34.22	54.02	19.80	L1	OFF	19.8
0.190500	43.00	---	64.02	21.02	L1	OFF	19.8
0.217500	---	33.87	52.91	19.04	L1	OFF	19.8
0.217500	42.32	---	62.91	20.59	L1	OFF	19.8
0.240000	---	30.45	52.10	21.65	L1	OFF	19.8
0.240000	39.21	---	62.10	22.89	L1	OFF	19.8
0.289500	---	32.91	50.54	17.63	L1	OFF	19.8
0.289500	40.41	---	60.54	20.13	L1	OFF	19.8
0.325500	---	32.63	49.57	16.94	L1	OFF	19.8
0.325500	39.55	---	59.57	20.02	L1	OFF	19.8
0.357000	---	31.93	48.80	16.87	L1	OFF	19.8
0.357000	40.83	---	58.80	17.97	L1	OFF	19.8
0.379500	---	29.66	48.29	18.63	L1	OFF	19.8
0.379500	37.99	---	58.29	20.30	L1	OFF	19.8
0.431250	---	31.19	47.23	16.04	L1	OFF	19.8
0.431250	38.44	---	57.23	18.79	L1	OFF	19.8
0.460500	---	31.25	46.68	15.43	L1	OFF	19.8
0.460500	37.77	---	56.68	18.91	L1	OFF	19.8
0.487500	---	26.82	46.21	19.39	L1	OFF	19.8

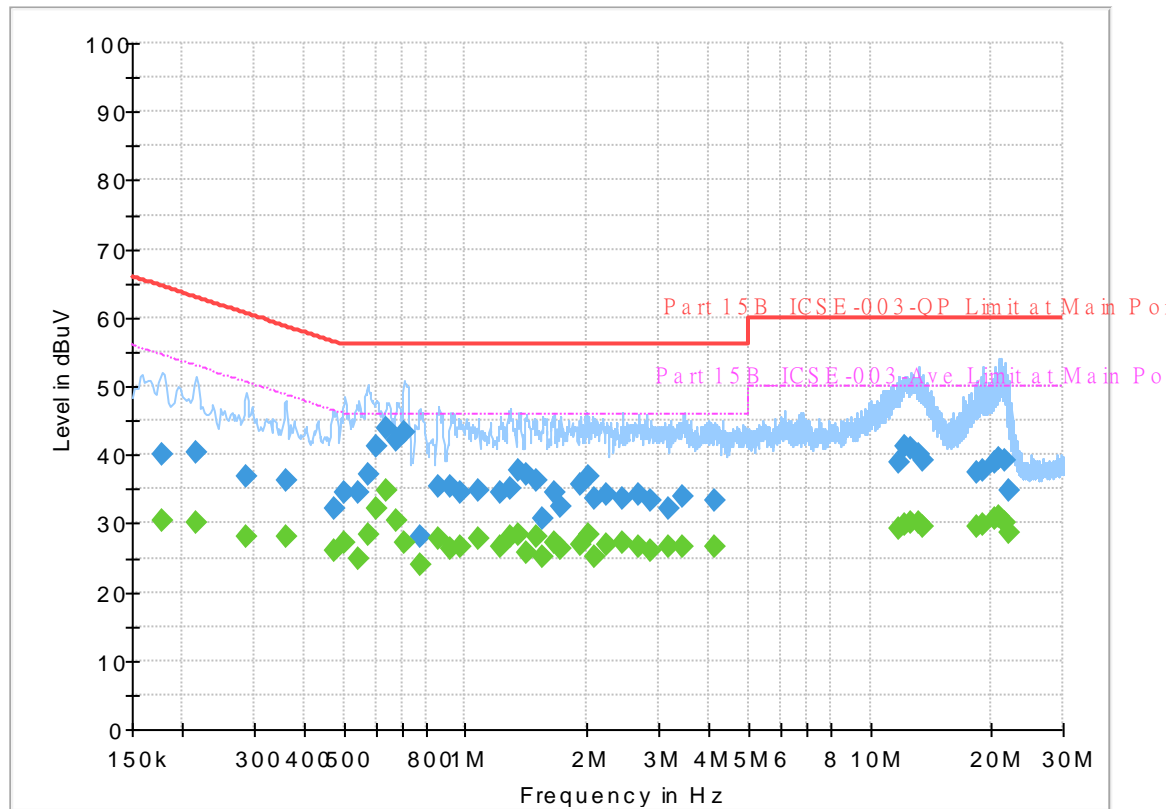
0.487500	36.01	---	56.21	20.20	L1	OFF	19.8
0.507750	---	30.04	46.00	15.96	L1	OFF	19.8
0.507750	38.86	---	56.00	17.14	L1	OFF	19.8
0.546000	---	27.84	46.00	18.16	L1	OFF	19.8
0.546000	39.82	---	56.00	16.18	L1	OFF	19.8
0.573000	---	33.04	46.00	12.96	L1	OFF	19.9
0.573000	41.61	---	56.00	14.39	L1	OFF	19.9
0.602250	---	30.98	46.00	15.02	L1	OFF	19.9
0.602250	44.21	---	56.00	11.79	L1	OFF	19.9
0.642750	---	40.75	46.00	5.25	L1	OFF	19.9
0.642750	46.99	---	56.00	9.01	L1	OFF	19.9
0.676500	---	38.74	46.00	7.26	L1	OFF	19.9
0.676500	47.23	---	56.00	8.77	L1	OFF	19.9
0.710250	---	36.18	46.00	9.82	L1	OFF	19.9
0.710250	47.74	---	56.00	8.26	L1	OFF	19.9
0.780000	---	30.26	46.00	15.74	L1	OFF	19.9
0.780000	40.19	---	56.00	15.81	L1	OFF	19.9
0.856500	---	31.14	46.00	14.86	L1	OFF	19.9
0.856500	39.96	---	56.00	16.04	L1	OFF	19.9
0.928500	---	29.42	46.00	16.58	L1	OFF	19.9
0.928500	38.88	---	56.00	17.12	L1	OFF	19.9
0.982500	---	29.00	46.00	17.00	L1	OFF	19.9
0.982500	39.18	---	56.00	16.82	L1	OFF	19.9
1.072500	---	32.39	46.00	13.61	L1	OFF	19.9
1.072500	40.70	---	56.00	15.30	L1	OFF	19.9
1.144500	---	32.62	46.00	13.38	L1	OFF	19.9
1.144500	40.75	---	56.00	15.25	L1	OFF	19.9
1.216500	---	32.33	46.00	13.67	L1	OFF	19.9
1.216500	39.69	---	56.00	16.31	L1	OFF	19.9
1.284000	---	31.21	46.00	14.79	L1	OFF	19.9
1.284000	39.45	---	56.00	16.55	L1	OFF	19.9
1.360500	---	32.31	46.00	13.69	L1	OFF	19.9
1.360500	42.33	---	56.00	13.67	L1	OFF	19.9
1.423500	---	29.71	46.00	16.29	L1	OFF	19.9
1.423500	40.95	---	56.00	15.05	L1	OFF	19.9
1.500000	---	32.21	46.00	13.79	L1	OFF	19.9
1.500000	40.82	---	56.00	15.18	L1	OFF	19.9
1.574250	---	32.32	46.00	13.68	L1	OFF	19.9
1.574250	40.45	---	56.00	15.55	L1	OFF	19.9
1.644000	---	29.38	46.00	16.62	L1	OFF	19.9
1.644000	38.79	---	56.00	17.21	L1	OFF	19.9
1.763250	---	27.93	46.00	18.07	L1	OFF	19.9
1.763250	36.84	---	56.00	19.16	L1	OFF	19.9
1.855500	---	30.43	46.00	15.57	L1	OFF	19.9
1.855500	38.71	---	56.00	17.29	L1	OFF	19.9
1.929750	---	31.99	46.00	14.01	L1	OFF	19.9
1.929750	40.18	---	56.00	15.82	L1	OFF	19.9
2.008500	---	30.77	46.00	15.23	L1	OFF	19.9
2.008500	40.37	---	56.00	15.63	L1	OFF	19.9
2.157000	---	27.30	46.00	18.70	L1	OFF	19.9
2.157000	38.62	---	56.00	17.38	L1	OFF	19.9
2.287500	---	29.29	46.00	16.71	L1	OFF	19.9
2.287500	37.23	---	56.00	18.77	L1	OFF	19.9
2.359500	---	30.09	46.00	15.91	L1	OFF	19.9
2.359500	37.84	---	56.00	18.16	L1	OFF	19.9
2.568750	---	29.85	46.00	16.15	L1	OFF	20.0
2.568750	39.41	---	56.00	16.59	L1	OFF	20.0
2.766750	---	26.55	46.00	19.45	L1	OFF	20.0
2.766750	35.77	---	56.00	20.23	L1	OFF	20.0
3.003000	---	29.43	46.00	16.57	L1	OFF	20.0
3.003000	37.36	---	56.00	18.64	L1	OFF	20.0
3.147000	---	28.30	46.00	17.70	L1	OFF	20.0
3.147000	34.99	---	56.00	21.01	L1	OFF	20.0
3.423750	---	28.40	46.00	17.60	L1	OFF	20.0
3.423750	37.30	---	56.00	18.70	L1	OFF	20.0
3.513750	---	28.34	46.00	17.66	L1	OFF	20.0
3.513750	36.77	---	56.00	19.23	L1	OFF	20.0
3.862500	---	29.17	46.00	16.83	L1	OFF	20.0
3.862500	36.65	---	56.00	19.35	L1	OFF	20.0
4.220250	---	29.63	46.00	16.37	L1	OFF	20.0
4.220250	37.51	---	56.00	18.49	L1	OFF	20.0

4.575750	---	28.76	46.00	17.24	L1	OFF	20.1
4.575750	35.55	---	56.00	20.45	L1	OFF	20.1
4.935750	---	28.39	46.00	17.61	L1	OFF	20.1
4.935750	34.69	---	56.00	21.31	L1	OFF	20.1
5.721000	---	28.69	50.00	21.31	L1	OFF	20.2
5.721000	34.76	---	60.00	25.24	L1	OFF	20.2
6.875250	---	28.65	50.00	21.35	L1	OFF	20.3
6.875250	35.06	---	60.00	24.94	L1	OFF	20.3
10.963500	---	29.50	50.00	20.50	L1	OFF	20.5
10.963500	37.97	---	60.00	22.03	L1	OFF	20.5
11.735250	---	30.41	50.00	19.59	L1	OFF	20.5
11.735250	39.80	---	60.00	20.20	L1	OFF	20.5
12.882750	---	31.16	50.00	18.84	L1	OFF	20.6
12.882750	42.24	---	60.00	17.76	L1	OFF	20.6
13.596000	---	30.07	50.00	19.93	L1	OFF	20.6
13.596000	39.39	---	60.00	20.61	L1	OFF	20.6
18.366000	---	30.46	50.00	19.54	L1	OFF	20.5
18.366000	39.94	---	60.00	20.06	L1	OFF	20.5
18.944250	---	30.21	50.00	19.79	L1	OFF	20.5
18.944250	39.01	---	60.00	20.99	L1	OFF	20.5
20.460750	---	30.86	50.00	19.14	L1	OFF	20.5
20.460750	38.40	---	60.00	21.60	L1	OFF	20.5
21.347250	---	30.39	50.00	19.61	L1	OFF	20.5
21.347250	39.43	---	60.00	20.57	L1	OFF	20.5

## EUT Information

Report NO : 4N2601  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	30.50	54.63	24.13	N	OFF	19.8
0.177000	40.08	---	64.63	24.55	N	OFF	19.8
0.215250	---	30.00	53.00	23.00	N	OFF	19.8
0.215250	40.22	---	63.00	22.78	N	OFF	19.8
0.287250	---	28.06	50.60	22.54	N	OFF	19.8
0.287250	36.94	---	60.60	23.66	N	OFF	19.8
0.359250	---	27.98	48.75	20.77	N	OFF	19.8
0.359250	36.36	---	58.75	22.39	N	OFF	19.8
0.471750	---	25.90	46.48	20.58	N	OFF	19.8
0.471750	32.22	---	56.48	24.26	N	OFF	19.8
0.503250	---	27.05	46.00	18.95	N	OFF	19.8
0.503250	34.40	---	56.00	21.60	N	OFF	19.8
0.543750	---	24.98	46.00	21.02	N	OFF	19.8
0.543750	34.61	---	56.00	21.39	N	OFF	19.8
0.573000	---	28.46	46.00	17.54	N	OFF	19.9
0.573000	37.08	---	56.00	18.92	N	OFF	19.9
0.604500	---	32.02	46.00	13.98	N	OFF	19.9
0.604500	41.21	---	56.00	14.79	N	OFF	19.9
0.640500	---	34.83	46.00	11.17	N	OFF	19.9
0.640500	43.89	---	56.00	12.11	N	OFF	19.9
0.674250	---	30.54	46.00	15.46	N	OFF	19.9
0.674250	42.03	---	56.00	13.97	N	OFF	19.9

0.703500	---	27.25	46.00	18.75	N	OFF	19.9
0.703500	43.37	---	56.00	12.63	N	OFF	19.9
0.771000	---	23.95	46.00	22.05	N	OFF	19.9
0.771000	28.17	---	56.00	27.83	N	OFF	19.9
0.858750	---	27.63	46.00	18.37	N	OFF	19.9
0.858750	35.50	---	56.00	20.50	N	OFF	19.9
0.921750	---	26.26	46.00	19.74	N	OFF	19.9
0.921750	35.29	---	56.00	20.71	N	OFF	19.9
0.971250	---	26.67	46.00	19.33	N	OFF	19.9
0.971250	34.62	---	56.00	21.38	N	OFF	19.9
1.079250	---	27.72	46.00	18.28	N	OFF	19.9
1.079250	34.93	---	56.00	21.07	N	OFF	19.9
1.223250	---	26.50	46.00	19.50	N	OFF	19.9
1.223250	34.40	---	56.00	21.60	N	OFF	19.9
1.290750	---	28.12	46.00	17.88	N	OFF	19.9
1.290750	35.21	---	56.00	20.79	N	OFF	19.9
1.358250	---	28.38	46.00	17.62	N	OFF	19.9
1.358250	37.65	---	56.00	18.35	N	OFF	19.9
1.416750	---	25.70	46.00	20.30	N	OFF	19.9
1.416750	37.09	---	56.00	18.91	N	OFF	19.9
1.500000	---	28.02	46.00	17.98	N	OFF	19.9
1.500000	36.31	---	56.00	19.69	N	OFF	19.9
1.556250	---	25.28	46.00	20.72	N	OFF	19.9
1.556250	30.78	---	56.00	25.22	N	OFF	19.9
1.653000	---	27.31	46.00	18.69	N	OFF	19.9
1.653000	34.51	---	56.00	21.49	N	OFF	19.9
1.725000	---	26.30	46.00	19.70	N	OFF	19.9
1.725000	32.56	---	56.00	23.44	N	OFF	19.9
1.923000	---	27.04	46.00	18.96	N	OFF	19.9
1.923000	35.78	---	56.00	20.22	N	OFF	19.9
2.008500	---	28.22	46.00	17.78	N	OFF	19.9
2.008500	36.88	---	56.00	19.12	N	OFF	19.9
2.087250	---	25.09	46.00	20.91	N	OFF	19.9
2.087250	33.65	---	56.00	22.35	N	OFF	19.9
2.224500	---	26.95	46.00	19.05	N	OFF	19.9
2.224500	34.25	---	56.00	21.75	N	OFF	19.9
2.445000	---	27.07	46.00	18.93	N	OFF	19.9
2.445000	33.63	---	56.00	22.37	N	OFF	19.9
2.679000	---	26.64	46.00	19.36	N	OFF	20.0
2.679000	34.27	---	56.00	21.73	N	OFF	20.0
2.879250	---	26.14	46.00	19.86	N	OFF	20.0
2.879250	33.38	---	56.00	22.62	N	OFF	20.0
3.165000	---	26.58	46.00	19.42	N	OFF	20.0
3.165000	32.31	---	56.00	23.69	N	OFF	20.0
3.462000	---	26.48	46.00	19.52	N	OFF	20.0
3.462000	33.81	---	56.00	22.19	N	OFF	20.0
4.141500	---	26.58	46.00	19.42	N	OFF	20.0
4.141500	33.43	---	56.00	22.57	N	OFF	20.0
11.735250	---	29.32	50.00	20.68	N	OFF	20.6
11.735250	38.83	---	60.00	21.17	N	OFF	20.6
12.241500	---	29.75	50.00	20.25	N	OFF	20.6
12.241500	41.12	---	60.00	18.88	N	OFF	20.6
12.653250	---	30.20	50.00	19.80	N	OFF	20.6
12.653250	40.88	---	60.00	19.12	N	OFF	20.6
13.222500	---	30.13	50.00	19.87	N	OFF	20.6
13.222500	39.92	---	60.00	20.08	N	OFF	20.6
13.524000	---	29.45	50.00	20.55	N	OFF	20.6
13.524000	39.15	---	60.00	20.85	N	OFF	20.6
18.300750	---	29.56	50.00	20.44	N	OFF	20.5
18.300750	37.34	---	60.00	22.66	N	OFF	20.5
18.989250	---	29.87	50.00	20.13	N	OFF	20.5
18.989250	37.76	---	60.00	22.24	N	OFF	20.5
20.404500	---	30.59	50.00	19.41	N	OFF	20.5
20.404500	38.82	---	60.00	21.18	N	OFF	20.5
20.872500	---	30.88	50.00	19.12	N	OFF	20.5
20.872500	39.43	---	60.00	20.57	N	OFF	20.5
21.570000	---	30.11	50.00	19.89	N	OFF	20.6
21.570000	39.20	---	60.00	20.80	N	OFF	20.6
21.950250	---	28.62	50.00	21.38	N	OFF	20.6
21.950250	34.92	---	60.00	25.08	N	OFF	20.6



## Appendix C. Radiated Spurious Emission Test Data

<b>Test Engineer :</b>	Gerry Wei 、 Tim Lee 、 Wilson Wu	<b>Temperature :</b>	20~25°C
		<b>Relative Humidity :</b>	50~60%

### Note symbol

-L	Low channel location
-R	High channel location

**C1.Radiated Spurious Emission Test Modes**

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1+2	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	1+2	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	1+2	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	1+2	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	1+2	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	1+2	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	1+2	802.11be EHT20	01	2412	MCS0	Full RU	-
Mode 8	2400-2483.5	1+2	802.11be EHT20	06	2437	MCS0	Full RU	-
Mode 9	2400-2483.5	1+2	802.11be EHT20	11	2462	MCS0	Full RU	-
Mode 10	2400-2483.5	1+2	802.11n HT20	11	2462	MCS0	-	-
Mode 11	2400-2483.5	1+2	802.11be EHT20	11	2462	MCS0	52 RU	-





## FCC RADIO TEST REPORT

Report No. :FR4N2601A

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 12	2400-2483.5	1+2	802.11ax HE20	11	2462	MCS0	52 RU	-
Mode 13	2400-2483.5	1+2	802.11g	11	2462	6Mbps	-	SHF
Mode 14	2400-2483.5	1+2	802.11g	11	2462	6Mbps	-	LF

## C2.Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11b	01	2386.70	50.73	54.00	-3.27	V	Avg.	Pass	-	Band Edge
	802.11b	01	4824.00	48.55	54.00	-5.45	H	Avg.	Pass	-	Harmonic
2	802.11b	06	2389.88	47.62	54.00	-6.38	V	Avg.	Pass	-	Band Edge
	802.11b	06	4874.00	49.53	54.00	-4.47	H	Avg.	Pass	-	Harmonic
3	802.11b	11	2483.51	48.12	54.00	-5.88	V	Avg.	Pass	-	Band Edge
	802.11b	11	4924.00	50.28	54.00	-3.72	H	Avg.	Pass	-	Harmonic
4	802.11g	01	2389.95	48.03	54.00	-5.97	V	Avg.	Pass	-	Band Edge
	802.11g	01	4824.00	39.92	74.00	-34.08	V	Peak	Pass	-	Harmonic
5	802.11g	06	2389.88	48.83	54.00	-5.17	V	Avg.	Pass	-	Band Edge
	802.11g	06	4874.00	38.32	54.00	-15.68	H	Avg.	Pass	-	Harmonic
6	802.11g	11	2483.51	52.05	54.00	-1.95	V	Avg.	Pass	-	Band Edge

**FCC RADIO TEST REPORT**

Report No. :FR4N2601A

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	802.11g	11	7386.00	44.64	74.00	-29.36	H	Peak	Pass	-	Harmonic
7	802.11be EHT20	01	2389.95	48.08	54.00	-5.92	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT20	01	4824.00	39.80	74.00	-34.20	V	Peak	Pass	Full RU	Harmonic
8	802.11be EHT20	06	2483.56	49.73	54.00	-4.27	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT20	06	4874.00	36.91	54.00	-17.09	V	Avg.	Pass	Full RU	Harmonic
9	802.11be EHT20	11	2483.51	51.36	54.00	-2.64	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT20	11	7386.00	45.32	74.00	-28.68	V	Peak	Pass	Full RU	Harmonic
10	802.11n HT20	11	2483.51	46.78	54.00	-7.22	H	Avg.	Pass	-	Band Edge
11	802.11be EHT20	11	2483.81	45.10	54.00	-8.90	H	Avg.	Pass	52 RU	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
12	802.11ax HE20	11	2483.55	45.58	54.00	-8.42	V	Avg.	Pass	52 RU	Band Edge
13	SHF	11	25808.00	39.70	74.00	-34.30	H	Peak	Pass	-	SHF
14	LF	11	40.67	33.85	40.00	-6.15	V	Peak	Pass	-	LF



# FCC RADIO TEST REPORT

Report No. :FR4N2601A

Mode	1																																																																																	
	Band Edge																																																																																	
	2400-2483.5_802.11b_CH01_2412MHz																																																																																	
ANT	1+2																																																																																	
Pol.	Horizontal	Fundamental																																																																																
Peak	<div><p>Level (dBuV/m) <span>Date: 2025-08-11</span></p><p>Site : 03CH12-HY Condition: PEAK_BE_74 3m 91200-02114-250702 HORIZONTAL : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 2387.48</td><td>54.48</td><td>74.00</td><td>-19.52</td><td>44.46</td><td>27.37</td><td>6.76</td><td>34.14</td><td>10.03</td><td>393 99 PEAK</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 2387.48	54.48	74.00	-19.52	44.46	27.37	6.76	34.14	10.03	393 99 PEAK	<div><p>Level (dBuV/m) <span>Date: 2025-08-11</span></p><p>Site : 03CH12-HY Condition: PEAK_74 3m 91200-02114-250702 HORIZONTAL : RBW:1000.000kHz VBN:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1 2412.00</td><td>110.28</td><td>-----</td><td>-----</td><td>100.19</td><td>27.42</td><td>6.80</td><td>34.16</td><td>10.03</td><td>393 99 PEAK</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm deg	1 2412.00	110.28	-----	-----	100.19	27.42	6.80	34.16	10.03	393 99 PEAK
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