



Shenzhen GUOREN Certification Technology Service Co., Ltd.

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community,
Fenghuang Street, Guangming District, Shenzhen, China

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No..... : GRCTR250502036-01

FCC ID..... : 2BLJV-R-W62506

Compiled by

(position+printed name+signature)..: Testing Engineer Jimmy Wang

Supervised by

(position+printed name+signature)..: Project Engineer Kelley Zhang

Approved by

(position+printed name+signature)..: Manager Sam Wang

Date of issue..... : Jun. 12, 2025

Testing Laboratory Name..... : Shenzhen GUOREN Certification Technology Service Co., Ltd.

Address..... : 101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community, Fenghuang Street, Guangming District, Shenzhen, China

Applicant's name..... : Shenzhen Dbit Network Equipment Co., Ltd

Address..... : 4002, Phase II, Qianhai Shima Financial Center, No. 3040 Xinghai Avenue, Nanshan Street, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China

Test specification..... :

Standard..... : FCC Part 15.247

Shenzhen GUOREN Certification Technology Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen GUOREN Certification Technology Service Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen GUOREN Certification Technology Service Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description..... : AX1500 WiFi6 Whole Home Mesh WiFi System

Trade Mark..... : /

Manufacturer..... : Shenzhen Dbit Network Equipment Co., Ltd

Model/Type reference..... : D-MAX4

Listed Models : WRAX1500,T262,T262-T21D,D-MAXX(The last X can be 1-50,symbol or blank, representing different product appearance colors, different customer codes or sales areas)

Firmware Version..... : V1.0

Hardware Version..... : V1.0

Modulation Type..... : DSSS/ OFDM/OFDMA

Operation Frequency..... : From 2412 - 2462MHz

Rating..... : DC 12V From External Circuit

Result..... : PASS



TEST REPORT

Equipment under Test : AX1500 WiFi6 Whole Home Mesh WiFi System

Model /Type : D-MAX4

Listed Models : WRAX1500,T262,T262-T21D,D-MAXX(The last X can be 1-50,symbol or blank, representing different product appearance colors, different customer codes or sales areas)

Applicant : Shenzhen Dbit Network Equipment Co., Ltd

Address : 4002, Phase II, Qianhai Shimao Financial Center, No. 3040 Xinghai Avenue, Nanshan Street, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China

Manufacturer : Shenzhen Dbit Network Equipment Co., Ltd

Address : 4002, Phase II, Qianhai Shimao Financial Center, No. 3040 Xinghai Avenue, Nanshan Street, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China

Test Result:	PASS
--------------	------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1 TEST STANDARDS	4
2 SUMMARY	5
2.1 General Remarks	5
2.2 Product Description	5
2.3 Equipment Under Test	6
2.4 Short description of the Equipment under Test (EUT)	6
2.5 EUT operation mode	6
2.6 EUT configuration	6
2.7 Block Diagram of Test Setup	6
2.8 Related Submittal(s) / Grant (s)	7
2.9 Modifications	7
3 TEST ENVIRONMENT	8
3.1 Address of the test laboratory	8
3.2 Test Facility	8
3.3 Environmental conditions	8
3.4 Test Description	9
3.5 Statement of the measurement uncertainty	9
3.6 Equipments Used during the Test	10
4 TEST CONDITIONS AND RESULTS	12
4.1 AC Power Line Conducted Emission	12
4.2 Radiated Emission	15
4.3 Maximum Conducted Output Power	25
4.4 Power Spectral Density	26
4.5 6dB Bandwidth	27
4.6 Spurious RF Conducted Emission	28
4.7 Antenna Requirement	29
5 TEST SETUP PHOTOS OF THE EUT	30
6 PHOTOS OF THE EUT	32

1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 v05r02](#): Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

[KDB 662911 D01 Multiple Transmitter Output](#): Emissions Testing of Transmitters with Multiple Outputs in the Same Band

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	May. 28, 2025
Testing commenced on	:	May. 28, 2025
Testing concluded on	:	Jun. 12, 2025

2.2 Product Description

Product Name:	AX1500 WiFi6 Whole Home Mesh WiFi System
Model/Type reference:	D-MAX4
Listed Models:	WRAX1500,T262,T262-T21D,D-MAXX(The last X can be 1-50,symbol or blank, representing different product appearance colors, different customer codes or sales areas)
Power supply:	DC 12V From External Circuit
Adapter information:	M/N:RD1201000-225MG Input:AC 100-240V 50/60Hz 0.6A Output:12V---1.0A
Testing sample ID:	Enclosure 1 GRCTR250502036-1# (Engineer sample), GRCTR250502036-2# (Normal sample) Enclosure 2 GRCTR250502036-3# (Normal sample)
WIFI:	
Supported type:	802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40
Modulation:	802.11b: DSSS 802.11g/802.11n HT20 /802.11n HT40: OFDM 802.11ax HE20/802.11ax HE40: OFDMA
Operation frequency:	802.11b/802.11g/802.11 HT20/802.11ax HE20: 2412MHz~2462MHz 802.11n HT40/802.11ax HE40: 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n HT20/802.11ax HE20: 11 802.11n HT40/802.11ax HE40: 7
Channel separation:	5MHz
Antenna type:	Enclosure 1:External antenna Enclosure 2:Internal antenna
Antenna gain*(Supplied by the customer):	Enclosure 1 Ant 1: 5.12 dBi Ant 2: 4.85 dBi Directional gain:7.99 Enclosure 2 Ant 1: 3.91 dBi Ant 2: 4.37 dBi Directional gain:7.15
Remark:*When the information provided by the customer was used to calculate test results, if the information provided by the customer is not accurate, shenzhen GUOREN Certification Technology Service Co., Ltd. does not assume any responsibility. The products are the same except for model names and enclosure.The product has two kinds of enclosure for each model. Enclosure 1 had been tested all items, Enclosure 2 had been tested Radiated Emissions and Band Edge (Radiated).	

According to KDB 662911 D01 Multiple Transmitter Output, Directional Gain Calculations for In-Band Measurements:

If transmit signals are correlated, then

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

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 12V From External Circuit

2.4 Short description of the Equipment under Test (EUT)

This is a AX1500 WiFi6 Whole Home Mesh WiFi System.
For more details, refer to the user's manual of the EUT.

2.5 EUT operation mode

The Applicant provides communication tools software(SecureCRT) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n/ax:

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

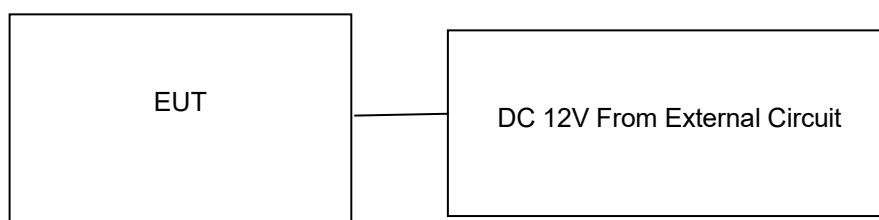
2.6 EUT configuration

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

Item	Manufacturer	Description	Model	Certificate	Note
1 ^{Note1}	Hewlett-Packard	Notebook	HP ProBook 445 G10	/	/
2 ^{Note1}	/	/	/	/	/

Note1: This Auxiliary used during the test is provided by the test laboratory.

2.7 Block Diagram of Test Setup



2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.9 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen GUOREN Certification Technology Service Co., Ltd.

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community, Fenghuang Street, Guangming District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 920798 Designation Number: CN1304

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6202.01

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

ISED#: 27264 CAB identifier: CN0115

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

CNAS-Lab Code: L15631

Shenzhen GUOREN Certification Technology Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories for the Competence of Testing and Calibration Laboratories.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	15-35 °C
Relative Humidity	30-60 %
Air Pressure	950-1050mbar

3.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Line Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Conducted Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n HT20/OFDM	6.5Mbps	1/6/11
	11n HT40/OFDM	13.5Mbps	3/6/9
	11ax HE20/OFDM	8.6 Mbps	1/6/11
	11ax HE40/OFDM	17.2 Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n HT20/OFDM	6.5Mbps	1/11
	11n HT40/OFDM	13.5Mbps	3/6/9
	11ax HE20/OFDM	8.6 Mbps	1/6/11
	11ax HE40/OFDM	17.2 Mbps	3/6/9

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen GUOREN Certification Technology Service Co., Ltd.quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GUOREN Certification Technology Service Co., Ltd.:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Max output power	30MHz~18GHz	0.54 dB	(1)
Power spectral density	/	0.56 dB	(1)
Spectrum bandwidth	/	1.2%	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

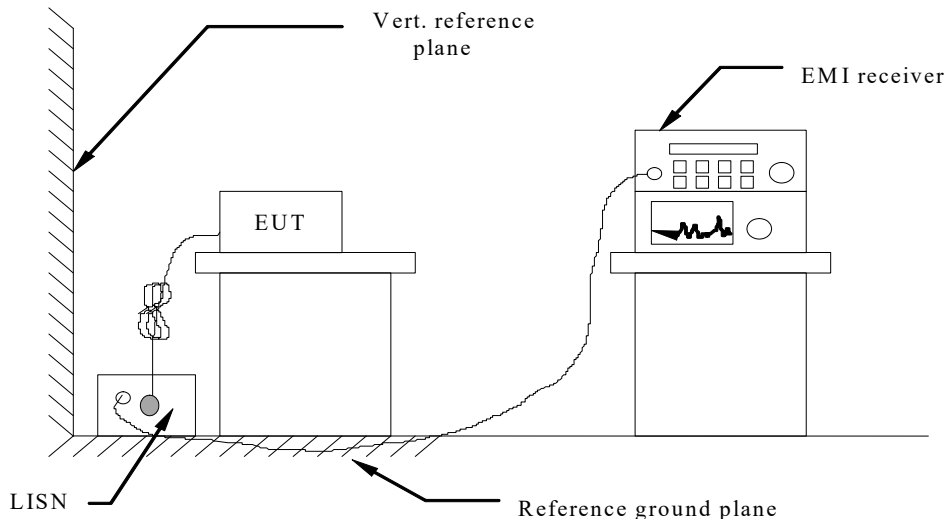
Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	GRCTEE009	2024/09/19	2025/09/18
LISN	R&S	ENV216	GRCTEE010	2024/09/19	2025/09/18
EMI Test Receiver	R&S	ESPI	GRCTEE017	2024/09/19	2025/09/18
EMI Test Receiver	R&S	ESCI	GRCTEE008	2024/09/19	2025/09/18
Spectrum Analyzer	Agilent	N9020A	GRCTEE002	2024/09/19	2025/09/18
Spectrum Analyzer	R&S	FSP	GRCTEE003	2024/09/20	2025/09/19
Vector Signal generator	Agilent	N5181A	GRCTEE007	2024/09/19	2025/09/18
Analog Signal Generator	R&S	SML03	GRCTEE006	2024/09/19	2025/09/18
Climate Chamber	QIYA	LCD-9530	GRCTES016	2024/09/19	2025/09/18
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	GRCTEE018	2023/09/28	2026/09/27
Horn Antenna	Schwarzbeck	BBHA 9120D	GRCTEE019	2023/09/28	2026/09/27
Loop Antenna	Zhinan	ZN30900C	GRCTEE020	2023/10/15	2026/10/14
Horn Antenna	Beijing Hangwei Dayang	OBH10040 0	GRCTEE049	2023/09/28	2026/09/27
Amplifier	Schwarzbeck	BBV 9745	GRCTEE021	2024/09/19	2025/09/18
Amplifier	Taiwan chengyi	EMC05184 5B	GRCTEE022	2024/09/19	2025/09/18
Temperature/Humidity Meter	Huaguan	HG-308	GRCTES037	2024/09/19	2025/09/18
Directional coupler	NARDA	4226-10	GRCTEE004	2024/09/19	2025/09/18

High-Pass Filter	XingBo	XBLBQ-GTA18	GRCTEE053	2024/09/19	2025/09/18
High-Pass Filter	XingBo	XBLBQ-GTA27	GRCTEE054	2024/09/19	2025/09/18
Automated filter bank	Tonscend	JS0806-F	GRCTEE055	2024/09/19	2025/09/18
Power Sensor	Agilent	U2021XA	GRCTEE070	2024/09/19	2025/09/18
Cable	Times	Cable-CE	GRCTEE086	2024/09/19	2025/09/18
Cable	Times	Cable-RE-1	GRCTEE087	2024/09/19	2025/09/18
Cable	Times	Cable-RE-2	GRCTEE088	2024/09/19	2025/09/18
EMI Test Software	ROHDE & SCHWARZ	ESK1-V1.71	GRCTEE060	N/A	N/A
EMI Test Software	Fera	EZ-EMC	GRCTEE061	N/A	N/A

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Line Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Line Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	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.

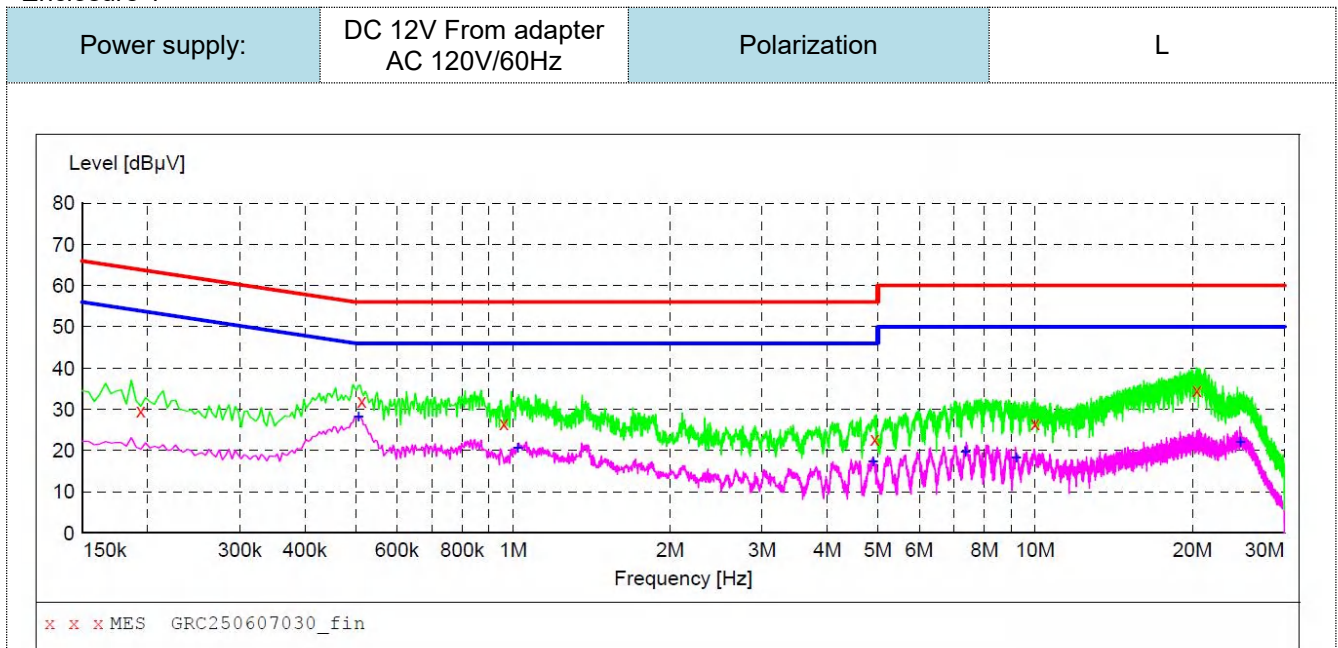
TEST RESULTS

Remark:

1. All modes of 802.11b/g/n/ax were tested at Low, Middle, and High channel; only the worst result of 802.11b CH01 for antenna 1 was reported as below:

2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

Enclosure 1

**MEASUREMENT RESULT: "GRC250607030_fin"**

6/7/2025 3:31PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.194000	29.80	10.4	64	34.1	QP	L1	GND
0.514000	32.00	10.2	56	24.0	QP	L1	GND
0.962000	26.70	10.2	56	29.3	QP	L1	GND
4.938000	22.80	10.2	56	33.2	QP	L1	GND
10.006000	26.60	10.8	60	33.4	QP	L1	GND
20.406000	34.60	10.6	60	25.4	QP	L1	GND

MEASUREMENT RESULT: "GRC250607030_fin2"

6/7/2025 3:31PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.506000	28.20	10.2	46	17.8	AV	L1	GND
1.022000	20.60	10.2	46	25.4	AV	L1	GND
4.890000	17.50	10.2	46	28.5	AV	L1	GND
7.354000	19.80	10.5	50	30.2	AV	L1	GND
9.190000	18.30	10.7	50	31.7	AV	L1	GND
24.698000	22.20	10.7	50	27.8	AV	L1	GND

Note:1).Level (dBμV)= Reading (dBμV)+ Transducer (dB)

2). Transducer (dB)=insertion loss of LISN (dB) + Cable loss (dB)

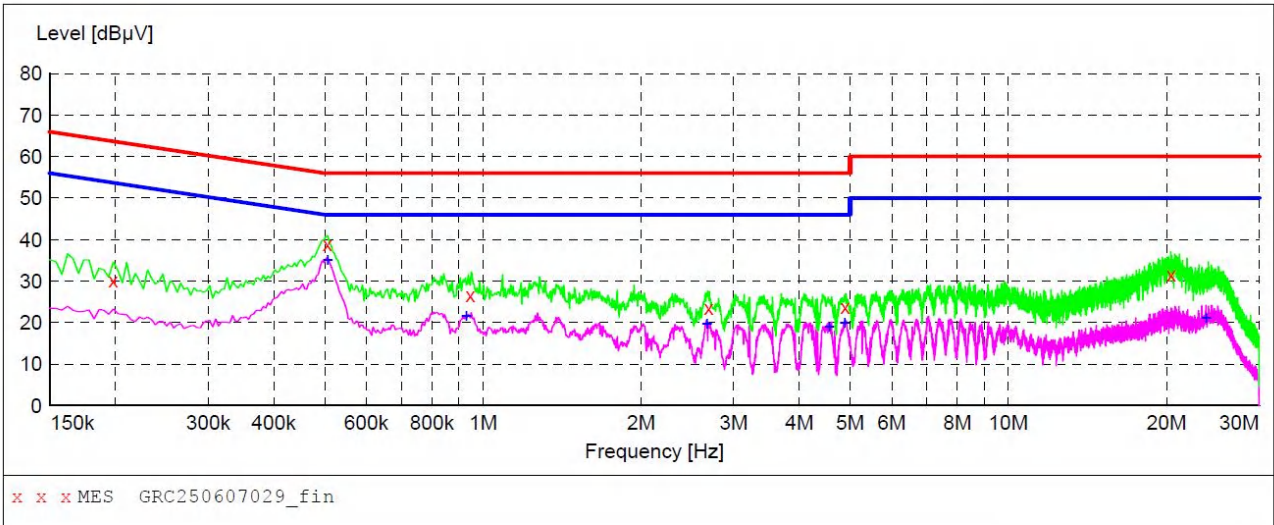
3). Margin(dB) = Limit (dBμV) - Level (dBμV)

Power supply:

DC 12V From adapter
AC 120V/60Hz

Polarization

N



MEASUREMENT RESULT: "GRC250607029_fin"

6/7/2025 3:24PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	30.20	10.4	64	33.5	QP	N	GND
0.506000	39.00	10.2	56	17.0	QP	N	GND
0.946000	26.70	10.3	56	29.3	QP	N	GND
2.694000	23.60	10.6	56	32.4	QP	N	GND
4.886000	23.80	10.2	56	32.2	QP	N	GND
20.414000	31.60	10.6	60	28.4	QP	N	GND

MEASUREMENT RESULT: "GRC250607029_fin2"

6/7/2025 3:24PM

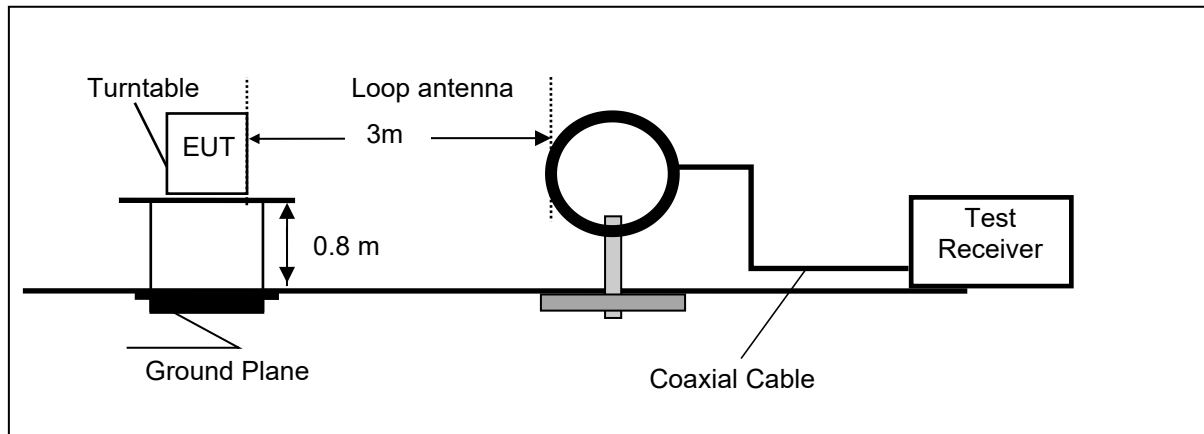
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.506000	35.20	10.2	46	10.8	AV	N	GND
0.930000	21.60	10.3	46	24.4	AV	N	GND
2.670000	19.70	10.6	46	26.3	AV	N	GND
4.566000	19.00	10.3	46	27.0	AV	N	GND
4.882000	20.00	10.2	46	26.0	AV	N	GND
23.778000	21.20	10.7	50	28.8	AV	N	GND

- Note:1).Level (dBμV)= Reading (dBμV)+ Transducer (dB)
2). Transducer (dB)=insertion loss of LISN (dB) + Cable loss (dB)
3). Margin(dB) = Limit (dBμV) - Level (dBμV)

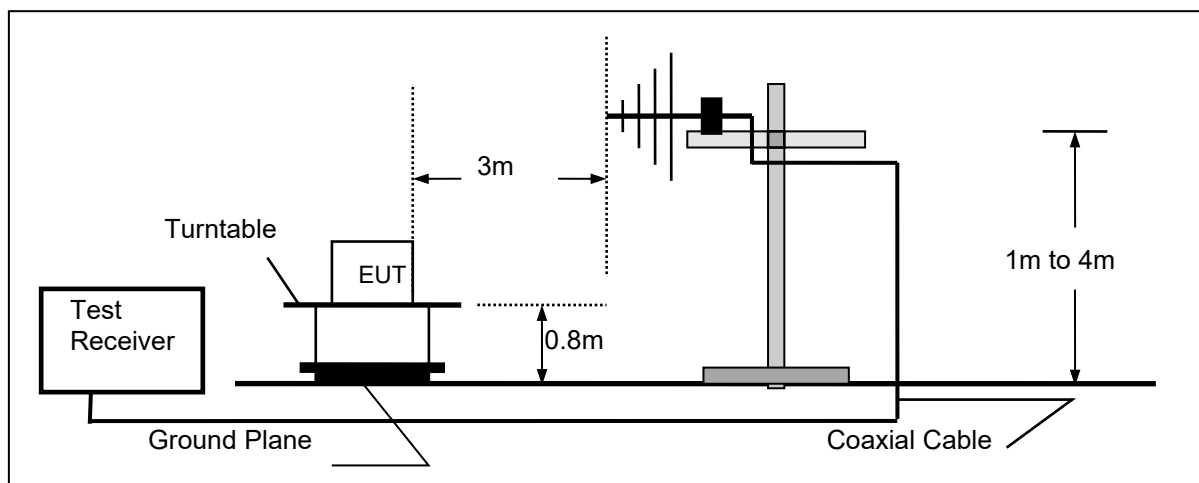
4.2 Radiated Emission

TEST CONFIGURATION

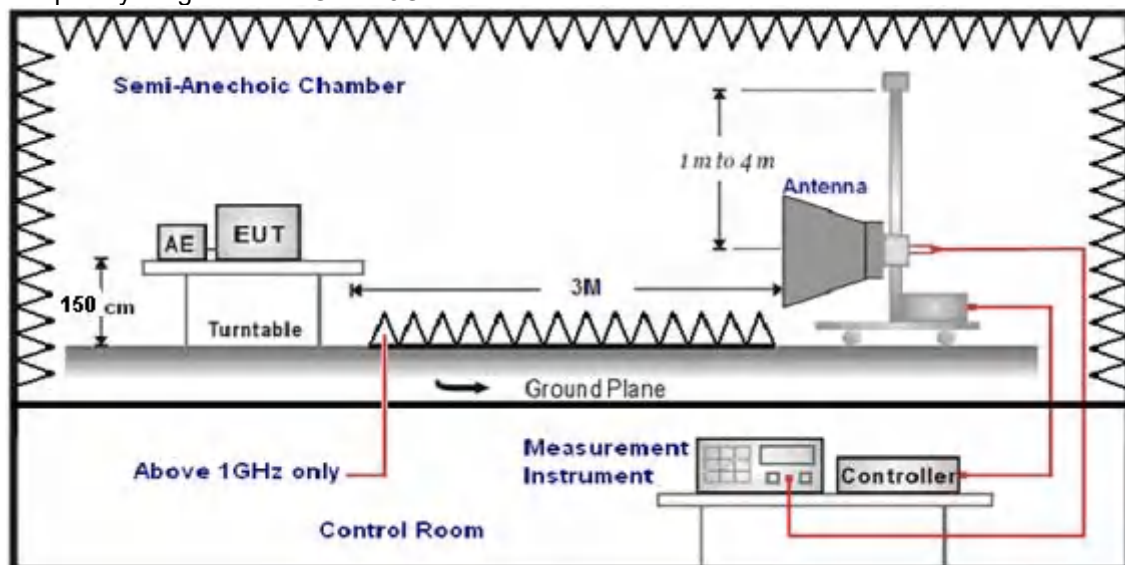
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz, the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd} = AF + CL - AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz})) + 40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz})) + 40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30) + 40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

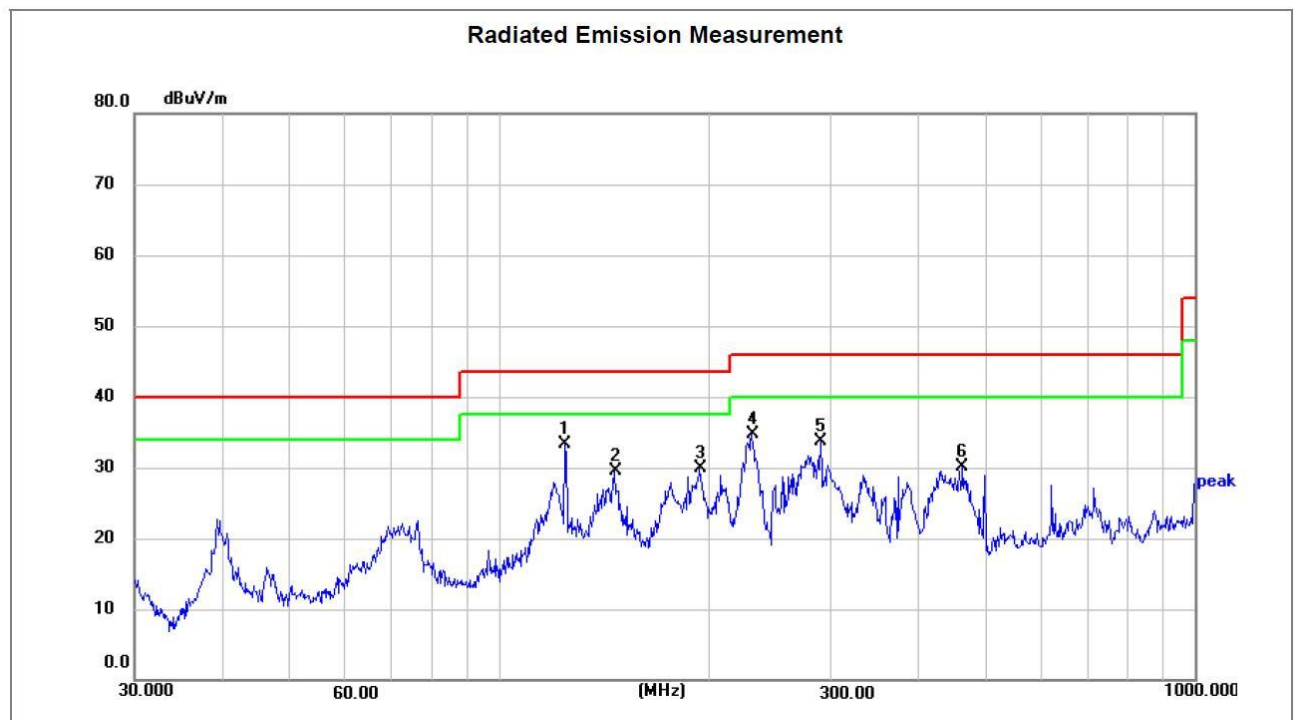
Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel for antenna 1.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

Enclosure 1

For 30MHz-1GHz

Horizontal



Site LAB

Limit: FCC Part15 RE-Class B_30-1000MHz

EUT:

M/N:

Mode:

Note:

Polarization: **Horizontal**

Power: AC120V/60Hz

Distance: 3m

Temperature: 22.5(C)

Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	124.5690	55.17	-21.86	33.31	43.50	-10.19	peak	199	19	P	
2	146.8877	51.21	-21.71	29.50	43.50	-14.00	peak	199	73	P	
3	194.4534	49.30	-19.45	29.85	43.50	-13.65	peak	199	37	P	
4	230.9068	53.18	-18.57	34.61	46.00	-11.39	peak	199	9	P	
5	290.0172	51.01	-17.24	33.77	46.00	-12.23	peak	100	49	P	
6	463.9696	45.00	-14.93	30.07	46.00	-15.93	peak	100	213	P	

Note:1).Level (dBuV/m)= Reading (dBuV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Level (dBuV/m) - Limit (dBuV/m)

Vertical

Radiated Emission Measurement



Site LAB

Polarization: **Vertical**

Temperature: 22.5(C)

Limit: FCC Part15 RE-Class B_30-1000MHz

Power: AC120V/60Hz

Humidity: 54 %

EUT:

Distance: 3m

M/N:

Mode:

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.2111	51.29	-19.89	31.40	40.00	-8.60	peak	100	229	P	
2	40.1347	50.18	-17.87	32.31	40.00	-7.69	peak	100	174	P	
3	64.2074	49.90	-19.79	30.11	40.00	-9.89	peak	100	100	P	
4 *	118.6014	56.60	-19.89	36.71	43.50	-6.79	peak	100	165	P	
5	146.3735	53.18	-21.72	31.46	43.50	-12.04	peak	100	8	P	
6	194.4534	47.53	-19.45	28.08	43.50	-15.42	peak	100	165	P	

Note:1).Level (dBuV/m)= Reading (dBuV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Level (dBuV/m) - Limit (dBuV/m)

For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 Mode all have been tested, only worse case 802.11b mode for antenna 1 is reported.

(above 1GHz)

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	54.30	PK	74	19.70	75.53	28.37	5.10	54.70	-21.23
4824.00	41.69	AV	54	12.31	62.92	28.37	5.10	54.70	-21.23
7236.00	52.56	PK	74	21.44	67.05	34.10	6.42	55.01	-14.49
7236.00	39.23	AV	54	14.77	53.72	34.10	6.42	55.01	-14.49

Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	55.07	PK	74	18.93	76.30	28.37	5.10	54.70	-21.23
4824.00	43.15	AV	54	10.85	64.38	28.37	5.10	54.70	-21.23
7236.00	53.08	PK	74	20.92	67.57	34.10	6.42	55.01	-14.49
7236.00	40.58	AV	54	13.42	55.07	34.10	6.42	55.01	-14.49

Frequency(MHz):			2437		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	56.41	PK	74	17.59	76.68	28.76	5.35	54.38	-20.27
4874.00	42.71	AV	54	11.29	62.98	28.76	5.35	54.38	-20.27
7311.00	52.08	PK	74	21.92	65.71	34.40	6.83	54.86	-13.63
7311.00	39.79	AV	54	14.21	53.42	34.40	6.83	54.86	-13.63

Frequency(MHz):			2437		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	54.80	PK	74	19.20	75.07	28.76	5.35	54.38	-20.27
4874.00	41.97	AV	54	12.03	62.24	28.76	5.35	54.38	-20.27
7311.00	52.38	PK	74	21.62	66.01	34.40	6.83	54.86	-13.63
7311.00	42.50	AV	54	11.50	56.13	34.40	6.83	54.86	-13.63

Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	56.16	PK	74	17.84	75.61	29.54	5.66	54.65	-19.45
4924.00	43.22	AV	54	10.78	62.67	29.54	5.66	54.65	-19.45
7386.00	53.80	PK	74	20.20	66.94	34.51	7.25	54.9	-13.14
7386.00	41.94	AV	54	12.06	55.08	34.51	7.25	54.9	-13.14

Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	54.34	PK	74	19.66	73.79	29.54	5.66	54.65	-19.45
4924.00	42.88	AV	54	11.12	62.33	29.54	5.66	54.65	-19.45
7386.00	52.55	PK	74	21.45	65.69	34.51	7.25	54.9	-13.14
7386.00	43.17	AV	54	10.83	56.31	34.51	7.25	54.9	-13.14

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

Note: 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 Mode all have been tested, only worse case 802.11b mode for antenna 1 is reported.

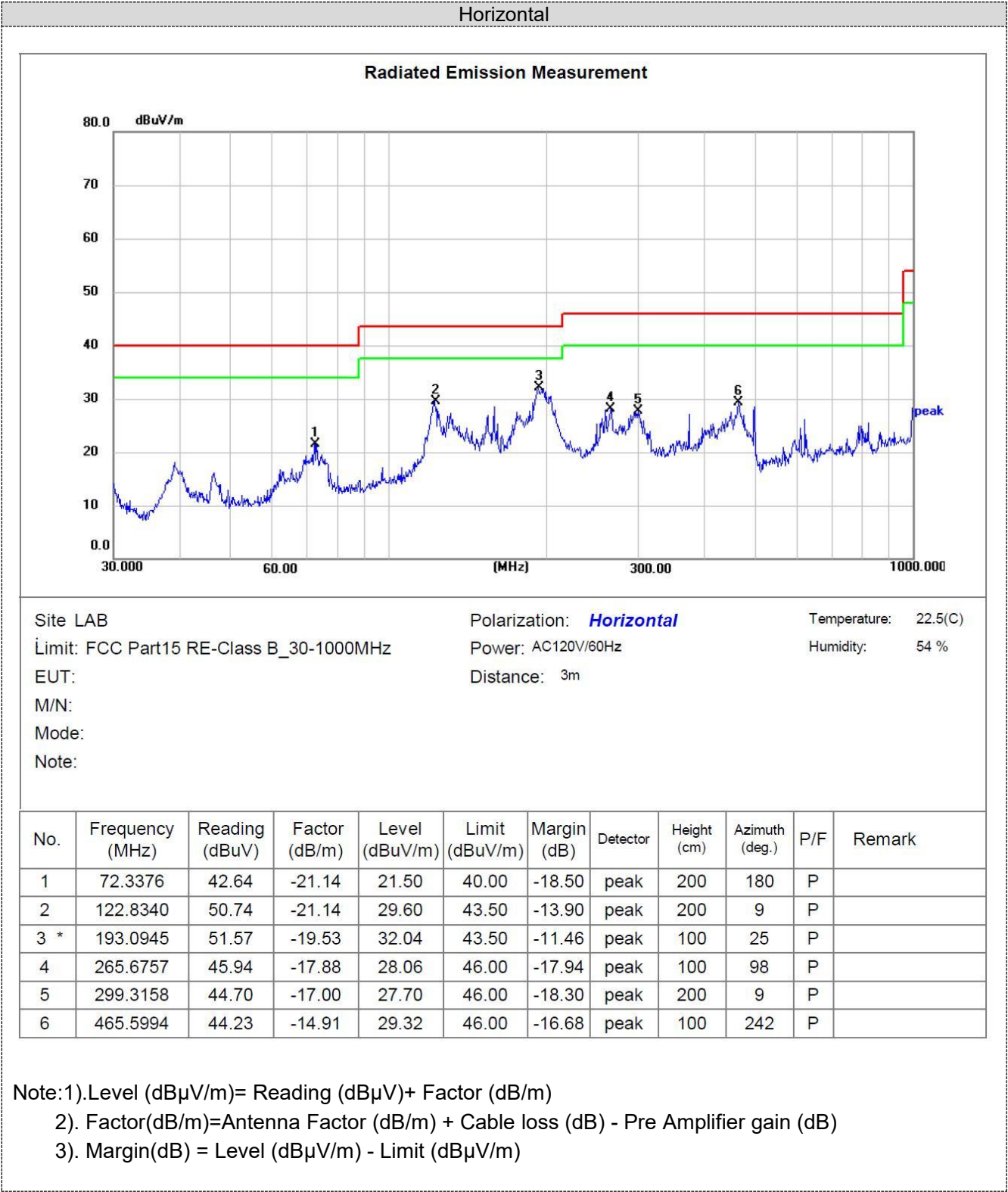
Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	55.14	PK	74	18.86	79.86	25.72	4.32	54.76	-24.72
2390.00	39.30	AV	54	14.70	64.02	25.72	4.32	54.76	-24.72
2400.00	56.34	PK	74	17.66	80.60	25.73	4.33	54.75	-24.26
2400.00	42.01	AV	54	11.99	66.27	25.73	4.33	54.75	-24.26
Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	55.09	PK	74	18.91	79.81	25.72	4.32	54.76	-24.72
2390.00	39.16	AV	54	14.84	63.88	25.72	4.32	54.76	-24.72
2400.00	56.72	PK	74	17.28	80.98	25.73	4.33	54.75	-24.26
2400.00	41.96	AV	54	12.04	66.22	25.73	4.33	54.75	-24.26
Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	54.58	PK	74	19.42	79.15	25.78	4.48	54.83	-24.57
2483.50	39.28	AV	54	14.72	63.85	25.78	4.48	54.83	-24.57
Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	55.52	PK	74	18.48	80.09	25.78	4.48	54.83	-24.57
2483.50	38.22	AV	54	15.78	62.79	25.78	4.48	54.83	-24.57

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Enclosure 2

For 30MHz-1GHz



Vertical

Radiated Emission Measurement



Site LAB

Polarization: **Vertical**

Temperature: 22.5(C)

Limit: FCC Part15 RE-Class B_30-1000MHz

Power: AC120V/60Hz

Humidity: 54 %

EUT:

Distance: 3m

M/N:

Mode:

Note:

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.1054	51.38	-19.89	31.49	40.00	-8.51	peak	100	358	P	
2 *	39.9942	51.71	-17.87	33.84	40.00	-6.16	peak	100	9	P	
3	71.5806	50.66	-20.93	29.73	40.00	-10.27	peak	100	9	P	
4	140.3421	50.78	-21.92	28.86	43.50	-14.64	peak	100	333	P	
5	197.8928	50.55	-19.19	31.36	43.50	-12.14	peak	100	144	P	
6	252.9482	40.98	-18.22	22.76	46.00	-23.24	peak	100	358	P	

Note:1).Level (dBuV/m)= Reading (dBuV)+ Factor (dB/m)

2). Factor(dB/m)=Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB)

3). Margin(dB) = Level (dBuV/m) - Limit (dBuV/m)

For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 Mode all have been tested, only worse case 802.11b mode for antenna 1 is reported.

(above 1GHz)

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	54.71	PK	74	19.29	75.94	28.37	5.10	54.70	-21.23
4824.00	42.13	AV	54	11.87	63.36	28.37	5.10	54.70	-21.23
7236.00	51.74	PK	74	22.26	66.23	34.10	6.42	55.01	-14.49
7236.00	38.99	AV	54	15.01	53.48	34.10	6.42	55.01	-14.49

Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	54.70	PK	74	19.30	75.93	28.37	5.10	54.70	-21.23
4824.00	43.43	AV	54	10.57	64.66	28.37	5.10	54.70	-21.23
7236.00	53.29	PK	74	20.71	67.78	34.10	6.42	55.01	-14.49
7236.00	39.81	AV	54	14.19	54.30	34.10	6.42	55.01	-14.49

Frequency(MHz):			2437		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	56.15	PK	74	17.85	76.42	28.76	5.35	54.38	-20.27
4874.00	41.60	AV	54	12.40	61.87	28.76	5.35	54.38	-20.27
7311.00	52.21	PK	74	21.79	65.84	34.40	6.83	54.86	-13.63
7311.00	41.19	AV	54	12.81	54.82	34.40	6.83	54.86	-13.63

Frequency(MHz):			2437		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	54.62	PK	74	19.38	74.89	28.76	5.35	54.38	-20.27
4874.00	42.56	AV	54	11.44	62.83	28.76	5.35	54.38	-20.27
7311.00	52.84	PK	74	21.16	66.47	34.40	6.83	54.86	-13.63
7311.00	42.23	AV	54	11.77	55.86	34.40	6.83	54.86	-13.63

Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	55.82	PK	74	18.18	75.27	29.54	5.66	54.65	-19.45
4924.00	41.93	AV	54	12.07	61.38	29.54	5.66	54.65	-19.45
7386.00	53.38	PK	74	20.62	66.52	34.51	7.25	54.9	-13.14
7386.00	40.85	AV	54	13.15	53.99	34.51	7.25	54.9	-13.14

Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	54.84	PK	74	19.16	74.29	29.54	5.66	54.65	-19.45
4924.00	42.18	AV	54	11.82	61.63	29.54	5.66	54.65	-19.45
7386.00	51.56	PK	74	22.44	64.70	34.51	7.25	54.9	-13.14
7386.00	43.05	AV	54	10.95	56.19	34.51	7.25	54.9	-13.14

- 6) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 7) Margin value = Limits-Emission level.
- 8) -- Mean the PK detector measured value is below average limit.
- 9) The other emission levels were very low against the limit.
- 10) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

Note: 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 Mode all have been tested, only worse case 802.11b mode for antenna 1 is reported.

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	55.04	PK	74	18.96	79.76	25.72	4.32	54.76	-24.72
2390.00	37.80	AV	54	16.20	62.52	25.72	4.32	54.76	-24.72
2400.00	56.34	PK	74	17.66	80.60	25.73	4.33	54.75	-24.26
2400.00	41.86	AV	54	12.14	66.12	25.73	4.33	54.75	-24.26
Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2390.00	55.16	PK	74	18.84	79.88	25.72	4.32	54.76	-24.72
2390.00	37.80	AV	54	16.20	62.52	25.72	4.32	54.76	-24.72
2400.00	56.51	PK	74	17.49	80.77	25.73	4.33	54.75	-24.26
2400.00	41.54	AV	54	12.46	65.80	25.73	4.33	54.75	-24.26
Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	54.37	PK	74	19.63	78.94	25.78	4.48	54.83	-24.57
2483.50	38.60	AV	54	15.40	63.17	25.78	4.48	54.83	-24.57
Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	54.21	PK	74	19.79	78.78	25.78	4.48	54.83	-24.57
2483.50	38.54	AV	54	15.46	63.11	25.78	4.48	54.83	-24.57

Note:

- 6) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 7) Margin value = Limits-Emission level.
- 8) -- Mean the PK detector measured value is below average limit.
- 9) The other emission levels were very low against the limit.
- 10) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

4.3 Maximum Conducted Output Power

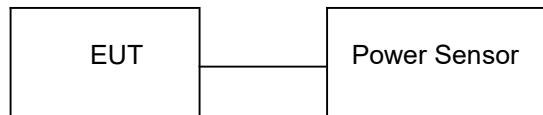
Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

Please refer to Appendix B

4.4 Power Spectral Density

Limit

The resulting peak PSD level shall not be greater than 8 dBm/3KHz.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level shall not be greater than 8 dBm/3KHz.

Test Configuration



Test Results

Please refer to Appendix C.

4.5 6dB Bandwidth

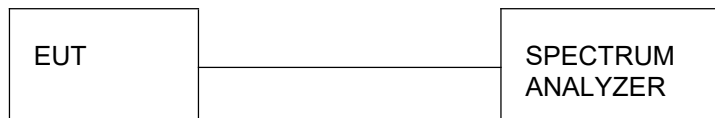
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

Please refer to Appendix A

4.6 Spurious RF Conducted Emission

Limit

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 Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band-edge and out-of-band emissions.

Test Configuration



Test Results

Please refer to Appendix D and Appendix E

4.7 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

Enclosure 1

The maximum gain of antenna was 5.12 dBi for 2.4GHz WIFI Ant 1, the maximum gain of antenna was 4.85 dBi for 2.4GHz WIFI Ant 2.

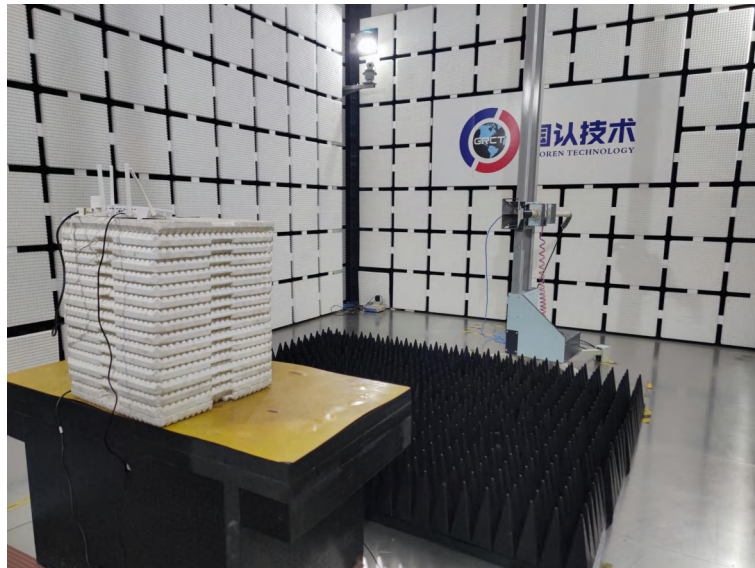
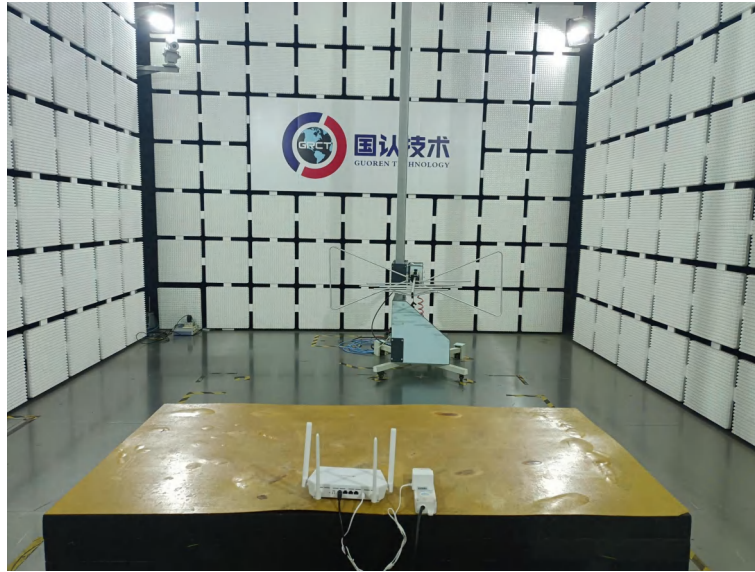
Enclosure 2

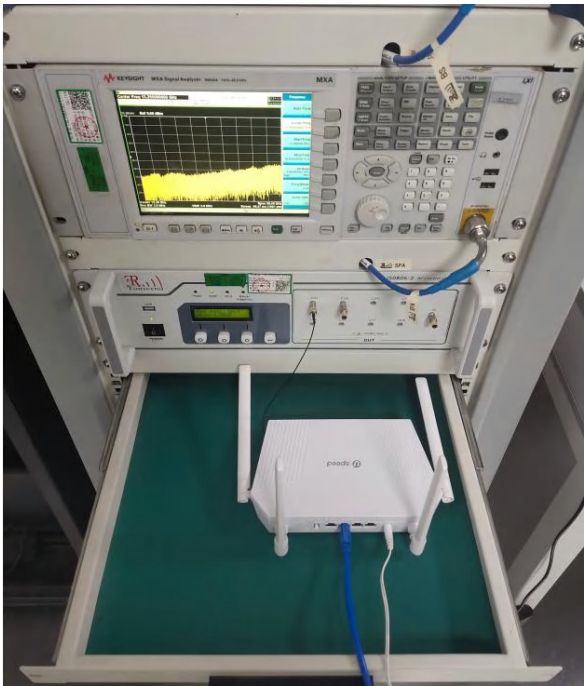
The maximum gain of antenna was 3.91 dBi for 2.4GHz WIFI Ant 1, the maximum gain of antenna was 4.37 dBi for 2.4GHz WIFI Ant 2.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen GUOREN Certification Technology Service Co., Ltd. does not assume any responsibility.

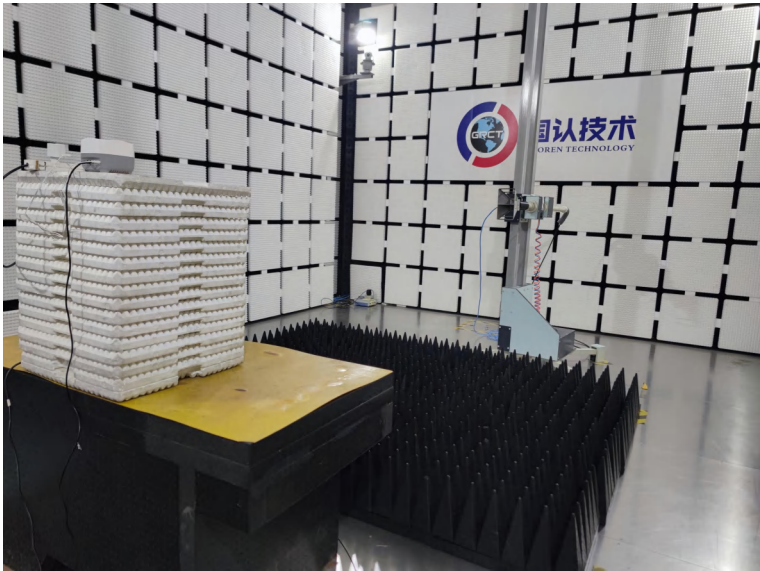
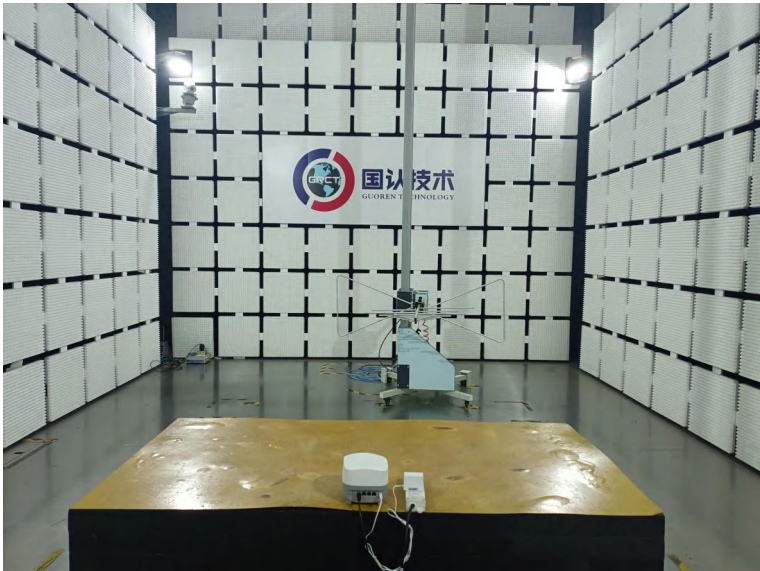
5 Test Setup Photos of the EUT

Enclosure 1



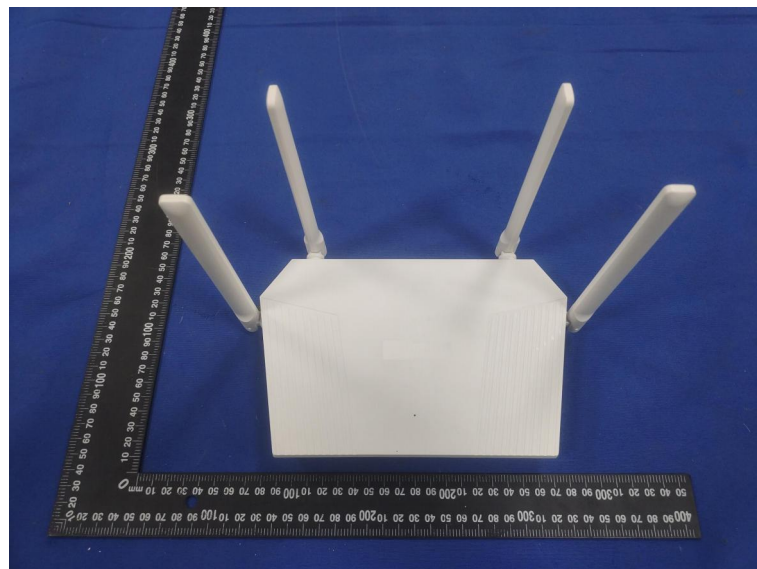
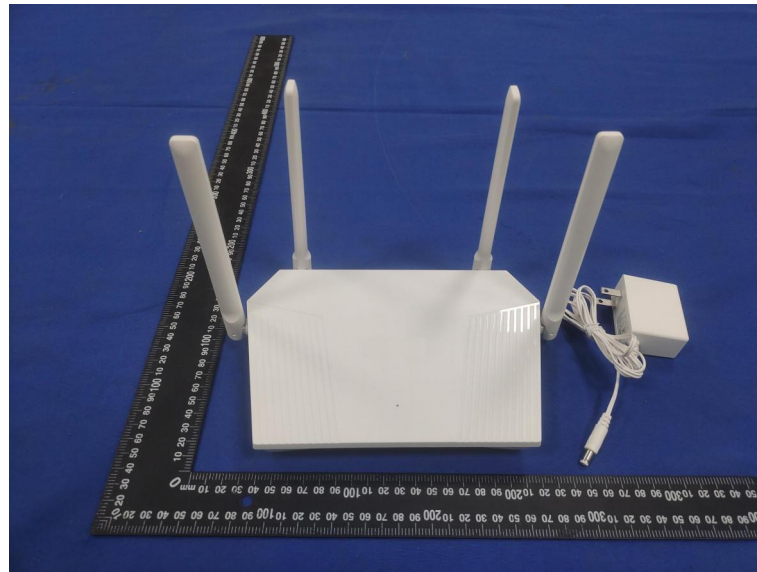


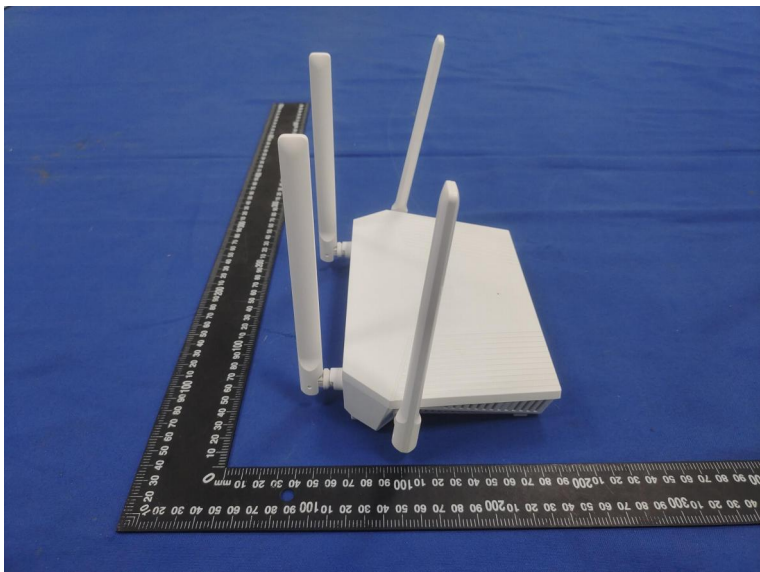
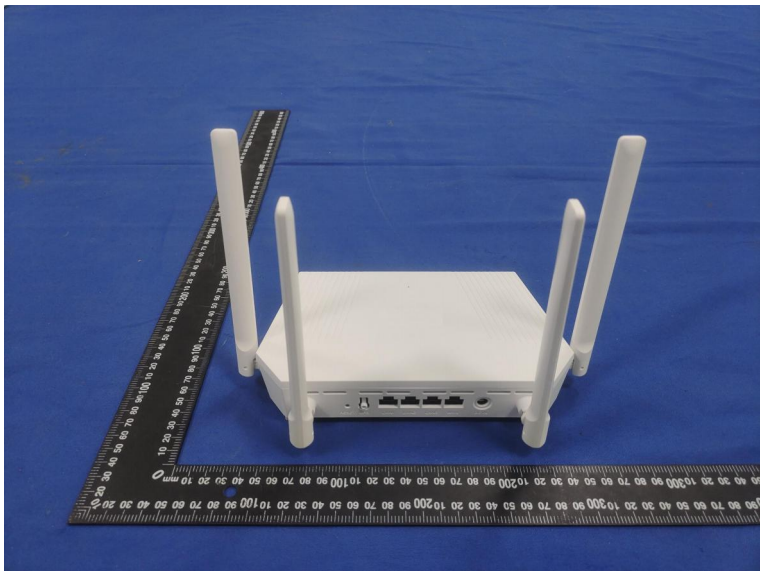
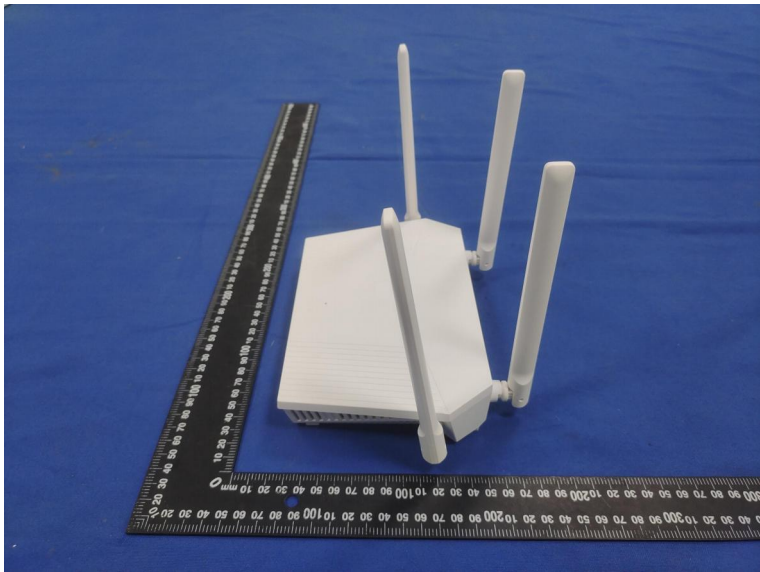
Enclosure 2

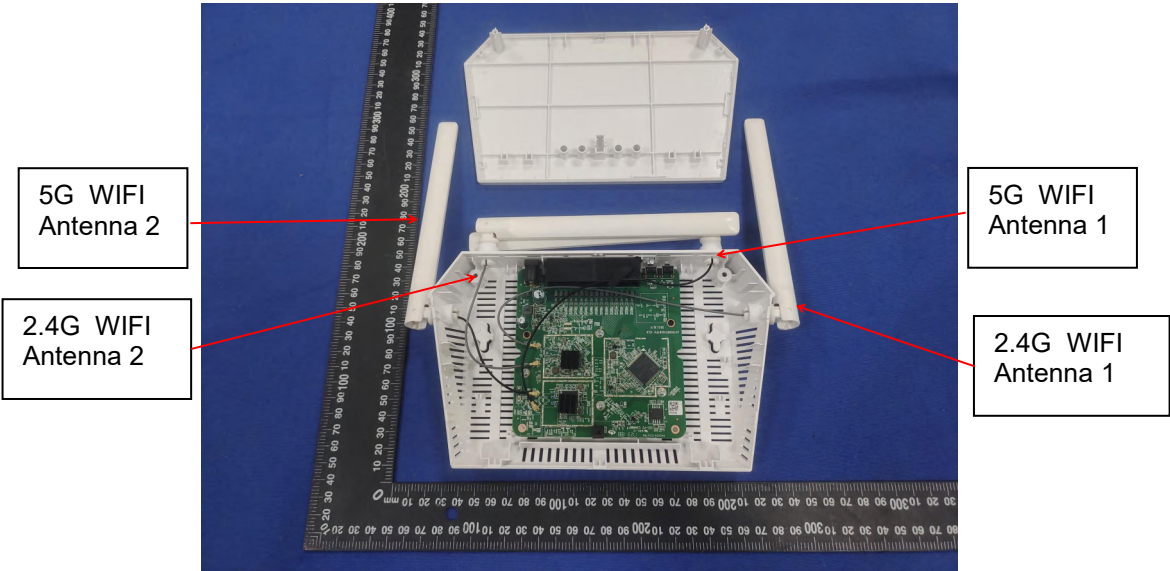


6 Photos of the EUT

Enclosure 1

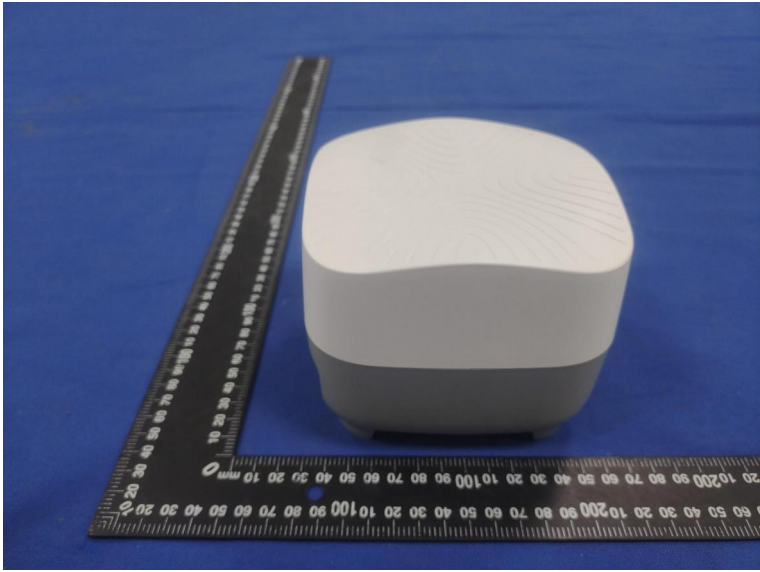


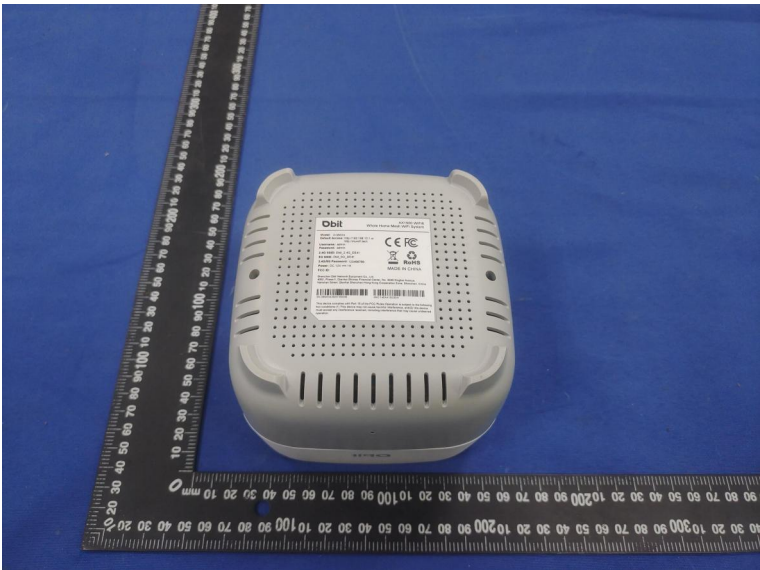
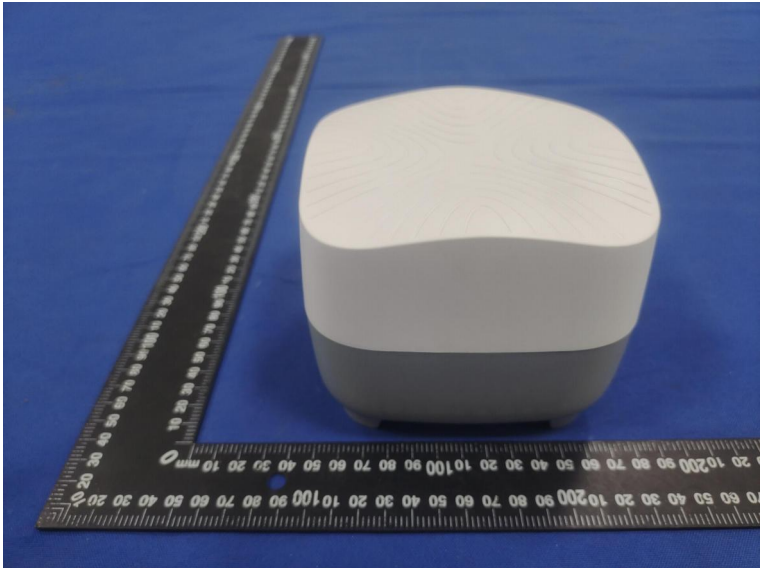
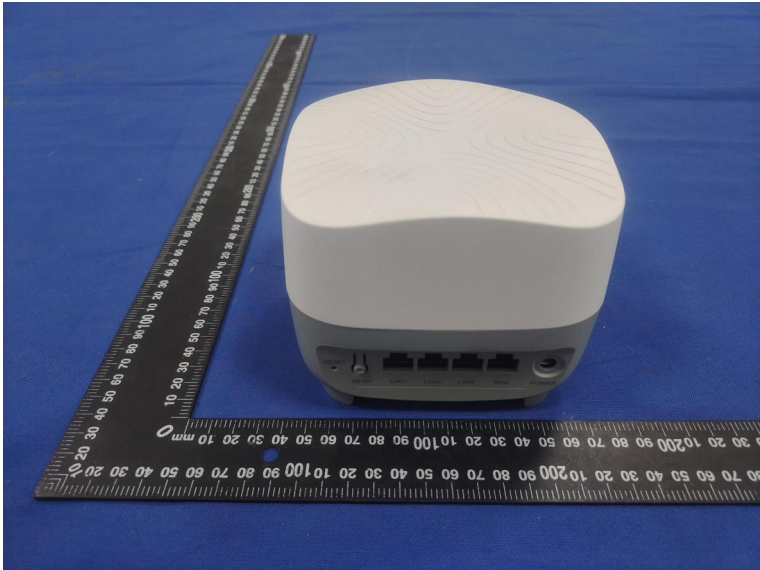


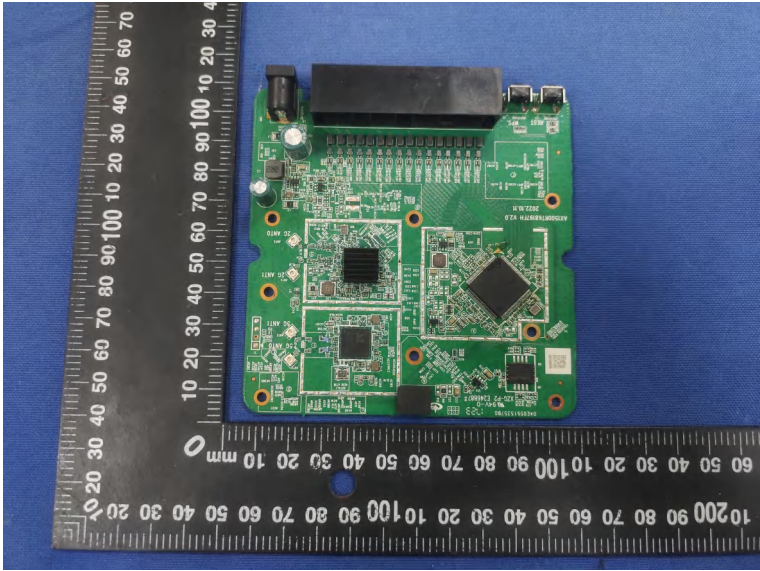
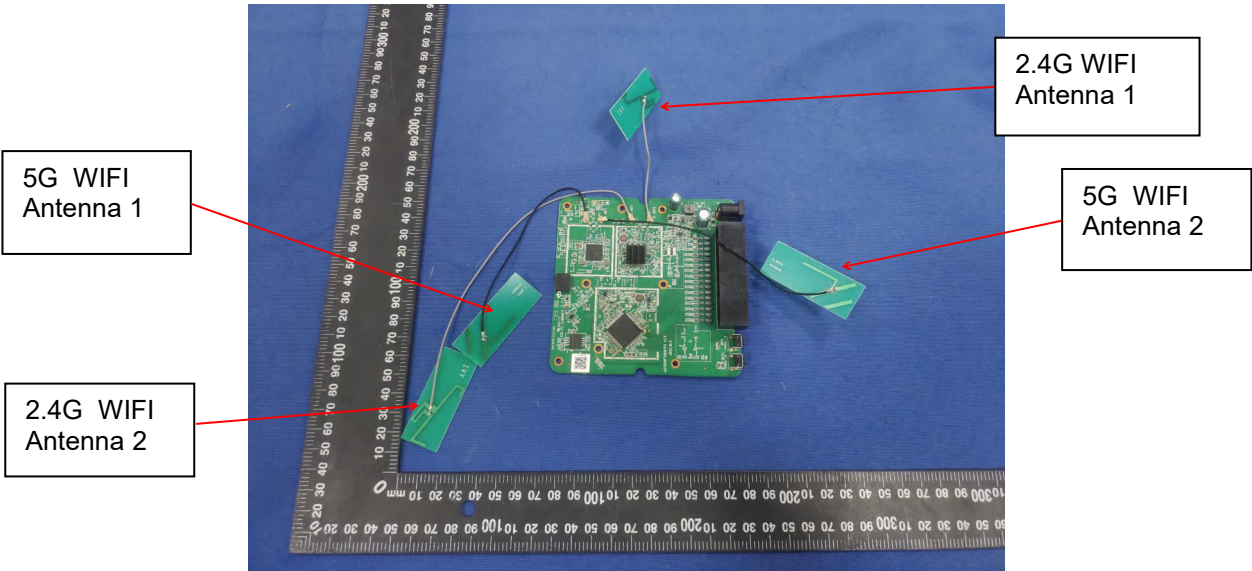
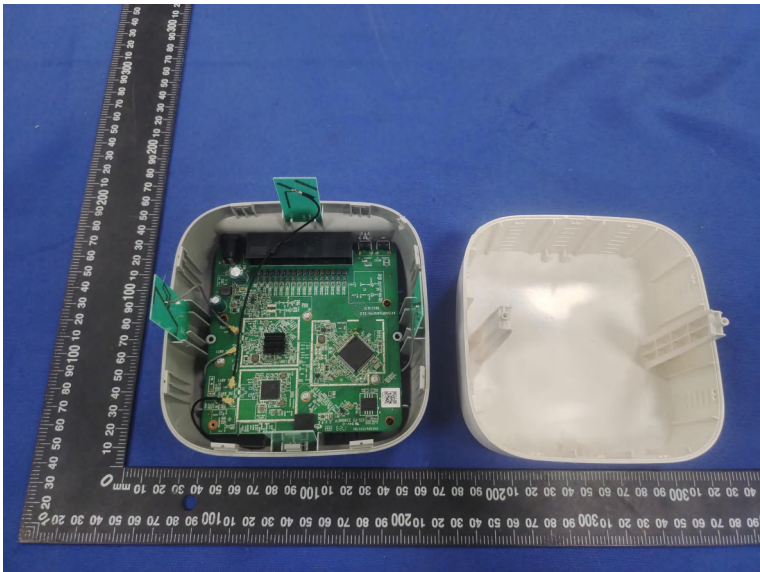


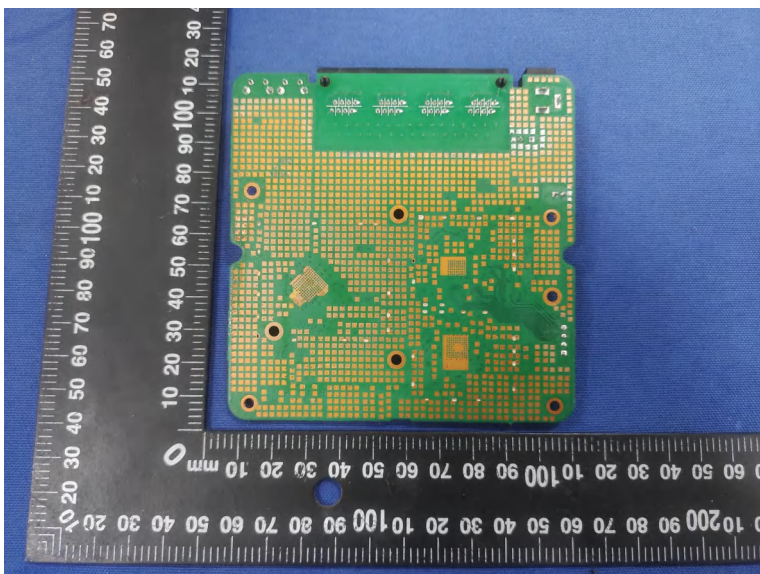
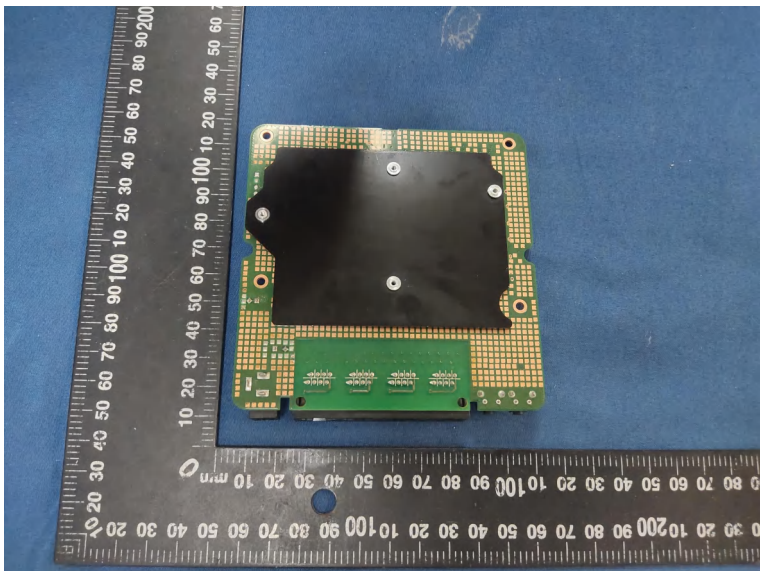
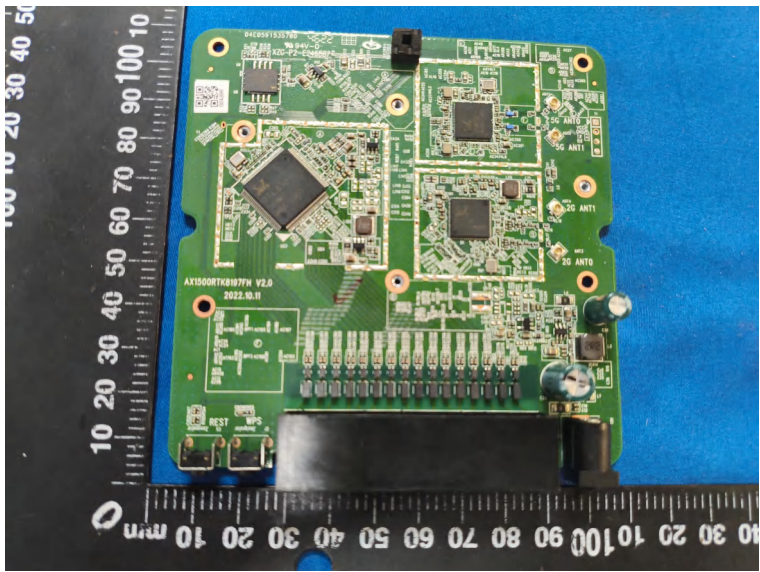
Enclosure 2











***** End of Report *****