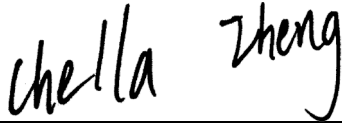
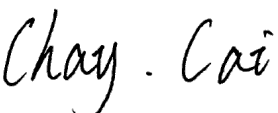


Japan Radio Test Report

Project No. : 2510C323
Equipment : Projector
Brand Name : 
Model Name : MC400, X1FR, MC400A, MC400PRO, X1F Pro, X1F Plus
Applicant : Global Aiptek Inc.
Address : 2911 N Cicero Ave., Chicago, IL, 60641, US
Manufacturer : Global Aiptek Inc.
Address : 2911 N Cicero Ave., Chicago, IL, 60641, US
Factory1 : BO CHENG RUBBER PHILIPPINES INC.
Address : Phase 3, Blk. 5, Lot 3, Lima Technology Center, SEZ San Fernando, Malvar, Batangas, 4233 Philippines
Factory2 : Chengdu Hotack Technology Co., Ltd.
Address : 501-502, Unit 3, Building 13, No. 666 Jinfenghuang Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan Province, China.
Date of Receipt : Oct. 09, 2025
Date of Test : Oct. 10, 2025 ~ Nov. 09, 2025
Issued Date : Dec. 26, 2025
Test Sample : Engineering Sample No.: DG920251009113
Standard(s) : Ordinance Regulating Radio Equipment General Provisions, Transmitting Equipment, Receiving Equipment, Article 49-20
Test Procedure : Test Method Specified Radio Equipment Article 2 Paragraph 1 of item19 (MIC Notice No.88 Appendix No.43)

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

Prepared by : 
 Chella Zheng

Approved by : 
 Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.
 Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents	page
REVISION HISTORY	4
1. SUMMARY OF TEST RESULTS	5
1.1. TEST FACILITY	6
1.2. MEASUREMENT UNCERTAINTY	6
1.3. TEST ENVIRONMENT CONDITIONS	6
2. GENERAL INFORMATION	7
2.1. GENERAL DESCRIPTION OF EUT	7
2.2. DESCRIPTION OF TEST MODES	9
2.3. BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
2.4. DESCRIPTION OF SUPPORT UNITS	11
2.5. TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING	12
3. TEST RESULTS	13
3.1. FREQUENCY TOLERANCE MEASUREMENT	13
3.2. OCCUPIED BANDWIDTH MEASUREMENT	15
3.3. UNWANTED EMISSION INTENSITY MEASUREMENT	16
3.4. ANTENNA POWER TOLERANCE MEASUREMENT	18
3.5. LIMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT	20
3.6. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT	22
3.7. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT	24
3.8. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT	26
3.9. CARRIER SENSE CAPABILITY MEASUREMENT	28
3.10. CONSTRUCTION PROTECTION CONFIRMATION METHOD	30
4. LIST OF MEASURING EQUIPMENTS	31
5. EUT TEST PHOTO	33
APPENDIX A - FREQUENCY TOLERANCE	34
APPENDIX B - OCCUPIED BANDWIDTH	37
APPENDIX C - UNWANTED EMISSION INTENSITY	40
APPENDIX D - ANTENNA POWER TOLERANCE AND EIRP ANTENNA POWER	56
APPENDIX E - LIMITATION OF COLLATERAL EMISSION OF RECEIVER	61

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-JPAP-3-2510C323	R00	<p>This is a copy report which referencing test data are provided from the original test report (BTL-JPAP-3-2510C001). And in this report changes are as follow:</p> <ol style="list-style-type: none"> 1. Changed the model names. 2. Compared with the original design, the mainboard(It is one white screen cable and one interface less than the original), fan, internal wiring, motor, antenna positions, appearance size and appearance color have all been changed. <p>Above these changes do not affect the test results. Other are kept the same.</p>	Dec. 17, 2025	Invalid
BTL-JPAP-3-2510C323	R01	<p>This report added the Note(2) in page8. It is a revision of the report BTL-JPAP-3-2510C323 R00. This is a newly released report. replacing the BTL-JPAP-3-2510C323 R00 report.</p>	Dec. 26, 2025	Valid

1. SUMMARY OF TEST RESULTS

Part	Description of Test	Rule Section	Result
3.1	Frequency Tolerance	Article 5, Annex 1	Pass
3.2	Occupied Bandwidth (99%)	Article 6, Annex 2	Pass
3.3	Unwanted Emission Intensity	Article 7, Annex 3	Pass
3.4	Antenna Power Tolerance	Article 14	Pass
3.5	Limitation of Collateral Emission of Receiver	Article 24, Paragraph 2	Pass
3.6	Transmission Antenna Gain (EIRP Antenna Power)	Article 49-20	N/A
3.7	Transmission Radiation Angle Width (3dB Beamwidth)	Article 49-20	N/A
3.8	Radio Interference Prevention Capability	Article 9-4, Item 5 Article 6-2, Item 3 and 5 of the Regulation for Enforcement of the Radio Law	Pass
3.9	Carrier Sense Capability	Article 49-20	Pass
3.10	Construction Protection Confirmation	Article 49-20	Pass

Method of measurement:	MIC Notice No.88 Appendix No.43
Test condition:	Conductive, RF test program provided by the customer was used to control the operating channel as well as the output power level.

Abbreviations used in this test report are as follows:

NC:	Normal Condition
EC:	Extreme Condition
EUT:	Equipment Under Test
DS:	Direct spreading
FH:	Frequency hopping
OFDM:	Orthogonal frequency division multiplexing

1.1. TEST FACILITY

The test facilities used to collect the test data in this report:

DGDLSR07-2/DGDLSR08-2/DGDLSR09-3: No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

1.2. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Frequency Tolerance	1.4 ppm	Confidence levels of 95.45%
99% Bandwidth	0.75 %	Confidence levels of 95.45%
Antenna Power	1.3 dB	Confidence levels of 95.45%
TX-RX Emission	2.1 dB	Confidence levels of 95.45%

1.3. TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Frequency Tolerance	24°C	49%	AC 100V/60Hz	Arvin Tong
	24°C	52%	AC 100V/60Hz	Arvin Tong
Occupied Bandwidth (99%)	24°C	49%	AC 100V/60Hz	Arvin Tong
	24°C	52%	AC 100V/60Hz	Arvin Tong
Unwanted Emission Intensity	24°C	49%	AC 100V/60Hz	Arvin Tong
	24°C	52%	AC 100V/60Hz	Arvin Tong
Antenna Power Tolerance	24°C	48%	AC 100V/60Hz	Corey Liang
Limitation of Collateral Emission of Receiver	24°C	49%	AC 100V/60Hz	Arvin Tong
	24°C	52%	AC 100V/60Hz	Arvin Tong
Carrier Sense Capability	23°C	46%	AC 100V/60Hz	Kadin Wu

2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Projector
Brand Name	
Test Model	MC400
Model Name	MC400, X1FR, MC400A, MC400PRO, X1F Pro, X1F Plus
Model Difference(s)	Model name and colors are different.
Hardware Version	LCD H726 68356A
Software Version	Android 14
Power Source	DC Voltage supplied from AC adapter. Model: TPN-LA35
Power Rating	20V $\approx$ 2.25A
Operation Frequency	2412 MHz ~ 2472 MHz
Modulation Technology	IEEE 802.11b:DSSS IEEE 802.11g/n:OFDM
Numbers of subcarriers of OFDM	3/MHz
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 150 Mbps
Occupied Bandwidth	39.40 MHz
Antenna Power (Rated Power)	IEEE 802.11b: 7.33 mW/MHz IEEE 802.11g: 2.80 mW/MHz IEEE 802.11n(HT20): 2.80 mW/MHz IEEE 802.11n(HT40): 0.69 mW/MHz
Antenna Power (Max. Conducted Power)	IEEE 802.11b: 7.3282 mW/MHz IEEE 802.11g: 2.7990 mW/MHz IEEE 802.11n(HT20): 2.7990 mW/MHz IEEE 802.11n(HT40): 0.6871 mW/MHz

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

2. Channel List:

CH01 - CH13 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20)					
CH03 - CH11 for IEEE 802.11n(HT40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	06	2437	11	2462
02	2417	07	2442	12	2467
03	2422	08	2447	13	2472
04	2427	09	2452		
05	2432	10	2457		

3. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain(dBi)
1		WIFI/BT	FPC	N/A	3.19

Note:

- (1) The antenna gain is provided by the manufacturer.
- (2) This product not support MIMO.

2.2. DESCRIPTION OF TEST MODES

The EUT was tested while in a continuous transmitter / receiver mode.

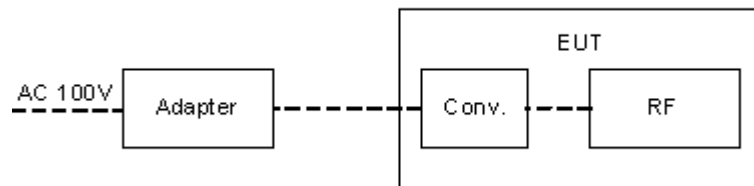
The EUT was tuned to a low, middle and high channel for all tests.

The EUT continuously transmitted a modulated packet with payload, while transmitting the EUT was setup to operate at the intended maximum power output available to the end user.

For all test case pre/scans were completed in all modes to determine worst case levels.

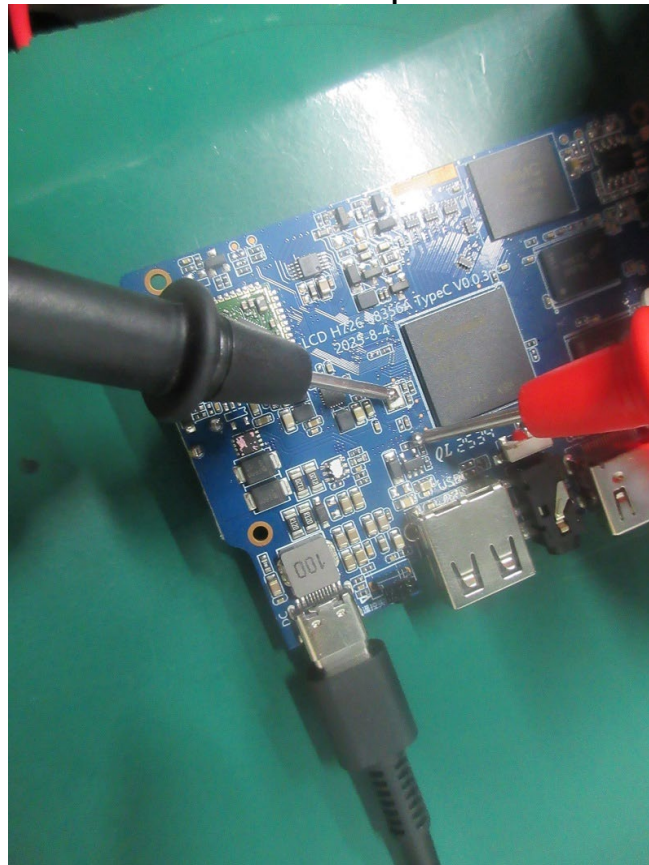
Test Mode	Description
Mode 1	IEEE 802.11b/CH01,CH07,CH13
Mode 2	IEEE 802.11g/CH01,CH07,CH13
Mode 3	IEEE 802.11n(HT20)/CH01,CH07,CH13
Mode 4	IEEE 802.11n(HT40)/CH03,CH07,CH11

Power Supply Voltage Fluctuation Test



Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input: AC Power	100V	110V	90V
Output: DC Power	3.211V	3.211V	3.211V
Voltage Variation (%)	-	0	0

Measurement point



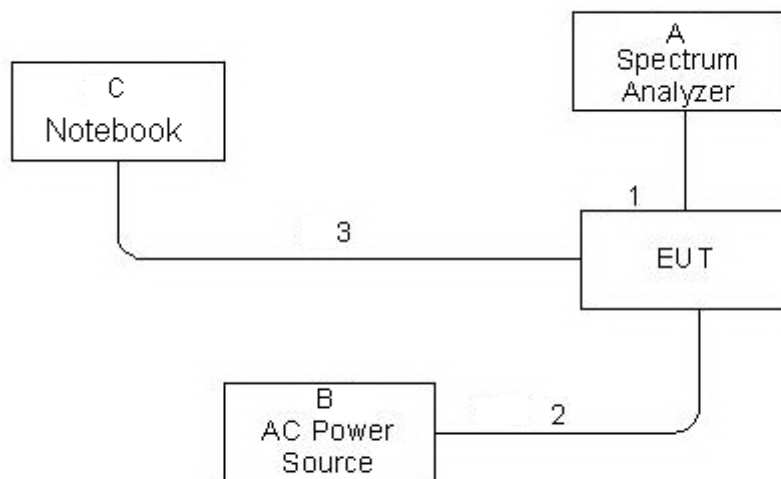
Note:

Voltage Variation (%)
 = (Output High Voltage or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%.

Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.

2.3. BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.4. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Spectrum Analyzer	R&S	FSP40	100185
B	AC power source	APC	AFC-11003	F303081067(A1)
C	Notebook	HUAWEI	KLVG-16	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	RF Cable	YES	NO	0.1m
2	AC POWER Cable	YES	NO	1.2m
3	USB Cable	NO	NO	1.1m

2.5. TABLE FOR PARAMETERS OF TEST SOFTWARE SETTING

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version	ADB		
Frequency (MHz)	2412	2442	2472
IEEE 802.11b	20.5	20.5	21.5
IEEE 802.11g	24	24	24
IEEE 802.11n(HT20)	24.5	24	24
Frequency (MHz)	2422	2442	2462
IEEE 802.11n(HT40)	20.5	20.5	20.5

3. TEST RESULTS

3.1. FREQUENCY TOLERANCE MEASUREMENT

3.1.1. LIMIT

Item	Limits
	(See Article 5 and Annex 1 table 7-8 of the Ordinance Regulating Radio Equipment)
Frequency Tolerance	-50≤ppm≤50

3.1.2. SETTING

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Span	20MHz systems: 25MHz 40MHz systems: 45MHz
RBW / VBW	10kHz / 30kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.1.3. TEST PROCEDURES

Test method according to Clause 3 of Annex No.43 of MIC Notification No.88.

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm).
2. Set spectrum analyzer with condition in section 3.1.2 and tune reference level to observe receiving signal position.
3. Center Frequency: The center frequency of testing for EUT.
4. EUT have transmitted modulation signal and fixed channelize. The peak value of the power envelope shall be measured and noted. The span shall be reduced and the marker moved in a positive frequency increment until the upper, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f1. The marker shall then be moved in a negative frequency increment until the lower, (relative to the centre frequency), -10 dBc point is reached. This value shall be noted as f2. f is calculated as $(f1 + f2) / 2$, fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 10^6$ ppm and the limit is less than ±50ppm.

3.1.4. TEST SETUP LAYOUT



3.1.5. TEST DEVIATION

There is no deviation with the original standard.

3.1.6. EUT OPERATION DURING TEST

The EUT was programmed to be in modulation mode.

3.1.7. TEST RESULTS

Please refer to the Appendix A.

3.2. OCCUPIED BANDWIDTH MEASUREMENT

3.2.1. LIMIT

Item	Limits (See Article 6 and Annex 2 30 of the Ordinance Regulating Radio Equipment)
Occupied Bandwidth	DSSS and OFDM (20MHz systems)≤26MHz; OFDM (40MHz systems)≤40MHz

3.2.2. SETTING

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Span	20MHz systems: 60MHz 40MHz systems: 100MHz
RBW / VBW	300kHz / 300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.2.3. TEST PROCEDURES

Test method according to Clause 4 of Annex No.43 of MIC Notification No.88.

1. Set spectrum analyzer with condition in section 3.2.2 and tune reference level to observe receiving signal position.
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz (For DSSS or OFDM 20MHz systems) or 40MHz(For OFDM 40MHz systems).

3.2.4. TEST SETUP LAYOUT



3.2.5. TEST DEVIATION

There is no deviation with the original standard.

3.2.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.2.7. TEST RESULTS

Please refer to the Appendix B.

3.3. UNWANTED EMISSION INTENSITY MEASUREMENT

3.3.1. LIMIT

Item	Limits
	(See Article 7 and Annex 3 26 of the Ordinance Regulating Radio Equipment)
TX	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
Spurious	$\leq 2.5 \mu\text{W}/\text{MHz}$ ($1000\text{MHz} \leq f < 2387\text{MHz}$; $2496.5\text{MHz} < f$)
Emission	$\leq 25 \mu\text{W}/\text{MHz}$ ($2387\text{MHz} \leq f < 2400\text{MHz}$) and ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$)
Measurement range: 30MHz~5th harmonics	

3.3.2. SETTING

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
RBW / VBW	100kHz / 100kHz (30~1000MHz) 1 MHz / 1 MHz (Above 1000MHz)
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

3.3.3. TEST PROCEDURES

Test method according to Clause 5 of Annex No.43 of MIC Notification No.88.

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Set spectrum analyzer with condition in section 3.3.2 and tune reference level to observe receiving signal position.
- SA adjusted to start frequency 30MHz and stop frequency 1000MHz. Then to mark peak reading value + cable loss shall be less than $2.5 \mu\text{W}/\text{MHz}$.
- SA adjusted to start frequency 1000MHz and stop frequency 2387MHz. Then to mark peak reading value + cable loss shall be less than $2.5 \mu\text{W}/\text{MHz}$.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than $25 \mu\text{W}/\text{MHz}$.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz. Then to mark peak reading value + cable loss shall be less than $25 \mu\text{W}/\text{MHz}$.
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz. Then to mark peak reading value + cable loss shall be less than $2.5 \mu\text{W}/\text{MHz}$.
- If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like time domain power measurement as Result_Value.

3.3.4. TEST SETUP LAYOUT



3.3.5. TEST DEVIATION

There is no deviation with the original standard.

3.3.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

Note:

- ※ 1: Frequency Band 1 ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
- ※ 2: Frequency Band 2 ($1000\text{MHz} \leq f < 2387\text{MHz}$)
- ※ 3: Frequency Band 3 ($2387\text{MHz} \leq f < 2400\text{MHz}$)
- ※ 4: Frequency Band 4 ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$)
- ※ 5: Frequency Band 5 ($2496.5\text{MHz} < f$)

Band	1	2	3	4	5
Cable Loss(dB)	15.5	15.5	15.5	15.5	15.5

3.3.7. TEST RESULTS

Please refer to the Appendix C.

3.4. ANTENNA POWER TOLERANCE MEASUREMENT

3.4.1. LIMIT

Item	Limits	
	(See Article 14 table 8 and Article 49-20 of the Ordinance Regulating Radio Equipment)	
Modulation Technology	DSSS and OFDM (20MHz systems)	OFDM (40MHz systems)
Antenna Power	10 mW/MHz or less	5 mW/MHz or less
EIRP	12.14 - 22.14 dBm/MHz or less	9.13 - 19.13 dBm/MHz or less
Antenna Power Tolerance	+20% (Base on manufacturer declare antenna power)	

3.4.2. SETTING

The following table is the setting of the spectrum analyzer.

Step 1:

Spectrum Parameter	Setting
Span	50MHz
RBW / VBW	1MHz / 3MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

Step 3:

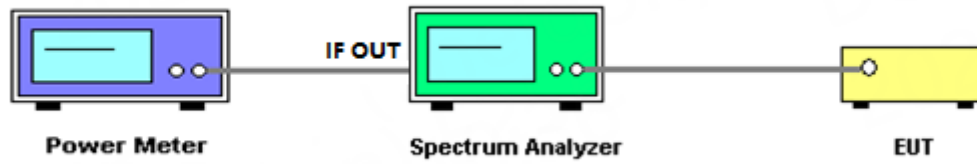
Spectrum Parameter	Setting
Span	0Hz
RBW / VBW	1MHz / 1MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	60s

3.4.3. TEST PROCEDURES

Test method according to Clause 6 of Annex No.43 of MIC Notification No.88.

1. Set spectrum analyzer with condition in section 3.4.2 Step 1 and tune reference level to observe receiving signal position.
2. When the trace is complete, find the peak value of the power envelope and record the frequency.
3. Set spectrum analyzer with condition in section 3.4.2 Step 3 and tune reference level to observe receiving signal position.
4. Connect the high frequency power meter to the IF output terminal of the spectrum analyzer, measure the equivalent noise bandwidth at the resolution bandwidth of 1 MHz of the spectrum analyzer, correct the bandwidth to the 1 MHz equivalent bandwidth, and read the displayed value from the high frequency power meter.

3.4.4. TEST SETUP LAYOUT



3.4.5. TEST DEVIATION

There is no deviation with the original standard.

3.4.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.4.7. TEST RESULTS

Please refer to the Appendix D.

3.5. LIMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

3.5.1. LIMIT

Item	Limits (See Article 24, Paragraph 2 of the Ordinance Regulating Radio Equipment)
RX Spurious Emission	$\leq 4 \text{ nW } (-54 \text{ dBm}) (f < 1\text{GHz})$
	$\leq 20 \text{ nW } (-47 \text{ dBm}) (1\text{GHz} \leq f)$
Measurement range: 30MHz~5th harmonics	

3.5.2. SETTING

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
RBW / VBW	100kHz / 100kHz (30~1000MHz) 1 MHz / 1 MHz (Above 1000MHz)
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

3.5.3. TEST PROCEDURES

Test method according to Clause 7 of Annex No.43 of MIC Notification No.88.

1. EUT have the continuous reception mode and fixed only one channelize.
2. Set spectrum analyzer with condition in section 3.5.2 and tune reference level to observe receiving signal position.
3. SA set RBW: 100kHz and VBW: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW.
4. SA set RBW: 1MHz and VBW: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW.

3.5.4. TEST SETUP LAYOUT



3.5.5. TEST DEVIATION

There is no deviation with the original standard.

3.5.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously receiving mode.

Note:

- ※ 6: Frequency Band 6 ($f < 1\text{GHz}$)
- ※ 7: Frequency Band 7 ($1\text{GHz} \leq f$)

Band	6	7
Cable Loss(dB)	1	1

3.5.7. TEST RESULTS

Please refer to the Appendix E.

3.6. TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT

3.6.1. LIMIT

Item	Limits (See Article 49-20 of the Ordinance Regulating Radio Equipment)
Transmission Antenna Gain	12.14 dBi or less (When an E.I.R.P. is less than the limit, the shortage can be compensated for by the gain of the transmitting antenna.)

3.6.2. SETTING

The following table is the setting of spectrum analyzer.

Spectrum Analyzer	Setting
Span	0Hz
RBW / VBW	1MHz / 1MHz
Detector	Positive Peak
Trace	Max Hold
Sweep Time	Auto

3.6.3. TEST PROCEDURES

Test method according to Clause 10 of Annex No.43 of MIC Notification No.88.

- Set EUT and measuring antenna at the same height (1.5 m) and roughly facing each other.
EUT have transmitted the maximum modulation signal and fixed channelize.
- Set spectrum analyzer with condition in section 3.6.2 and tune reference level to observe receiving signal position. Center Frequency: Provide maximum power frequency.
- Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
- Move the measuring antenna height up and down within ± 50 cm of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E".
- Keeping the worst measuring antenna height and turntable angle unchanged, remove the EUT from the turntable and replace it with SG and a replacement standard antenna. Align the replacement antenna with the measuring antenna, and SG sends radio waves of the same frequency as the EUT. Adjust the replacement antenna to the maximum received power.
- Move the measuring antenna height up and down within ± 50 cm, maintain the worst height, and adjust the output power of SG to achieve the power value "E" in step 4 of the spectrum analyzer.
- Calculate EIRP by the formula below.

$$EIRP = G_S - L_F + P_S$$

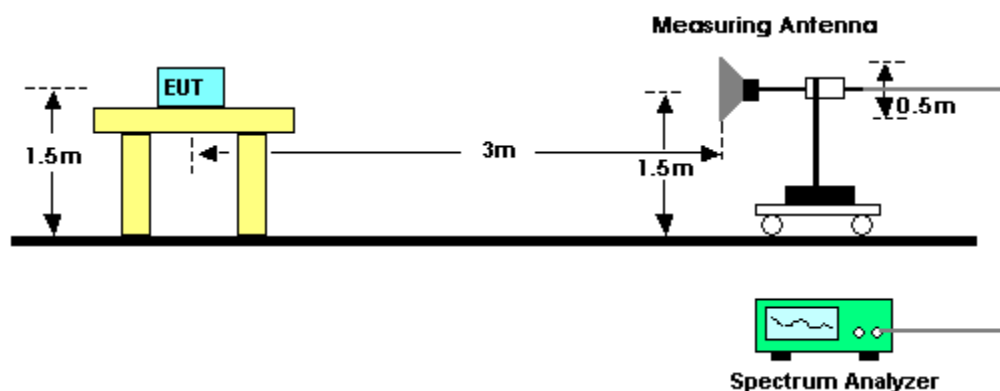
G_S : Gain of replacement antenna (dBi)

L_F : Cable loss between SG and replacement antenna (dB)

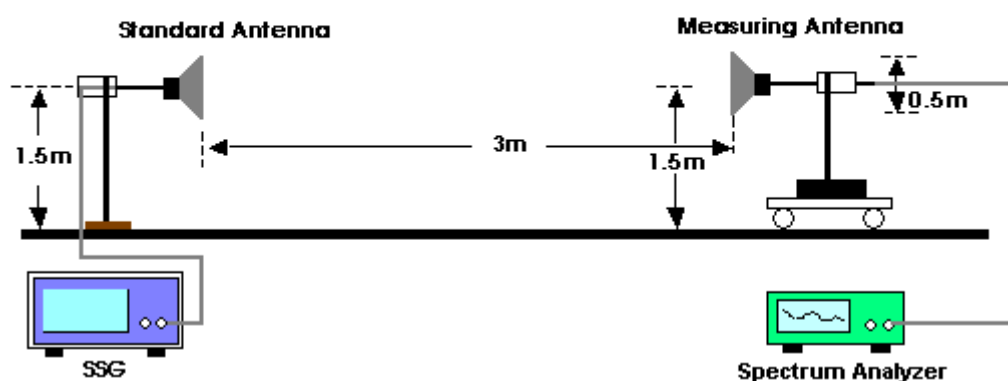
P_S : Output power of SG output port (dBm)

3.6.4. TEST SETUP LAYOUT

For EUT radiation measurement



For standard antenna measurement



3.6.5. TEST DEVIATION

There is no deviation with the original standard.

3.6.6. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.6.7. RESULTS OF TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER)

Method of measurement:	See MIC Notice No.88 Appendix No.43 Clause 10
Results:	N/A

3.7. TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

3.7.1. LIMIT

Item	Limits (See Article 49-20 of the Ordinance Regulating Radio Equipment)
3dB antenna beam width	$360^{\circ}/A$ (if $A < 1$; then $A = 1$) $A = \text{EIRP Power [mW]} / 16.36 \text{ [mW]}$ for DSSS and OFDM (20MHz systems), or $A = \text{EIRP Power [mW]} / 8.18 \text{ [mW]}$ for OFDM (40MHz systems)

3.7.2. SETTING

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Span	0Hz
RBW / VBW	1MHz / 1kHz
Y scale	5dB
Detector	Peak
Trace	Max Hold

3.7.3. TEST PROCEDURES

Test method according to Clause 11 of Annex No.43 of MIC Notification No.88.

- Set EUT and measuring antenna at the same height (1.5 m) and roughly facing each other.
EUT have transmitted absence of modulation signal and fixed channelize.
- Set spectrum analyzer with condition in section 3.7.2 and tune reference level to observe receiving signal position. Center Frequency: The center frequency of testing for EUT.
- Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
- Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E".
- Using the EIRP measured in section 3.6.3, calculate the allowable angles Θ_0 of the EUT's main radiation in the horizontal and vertical directions using the following formula.

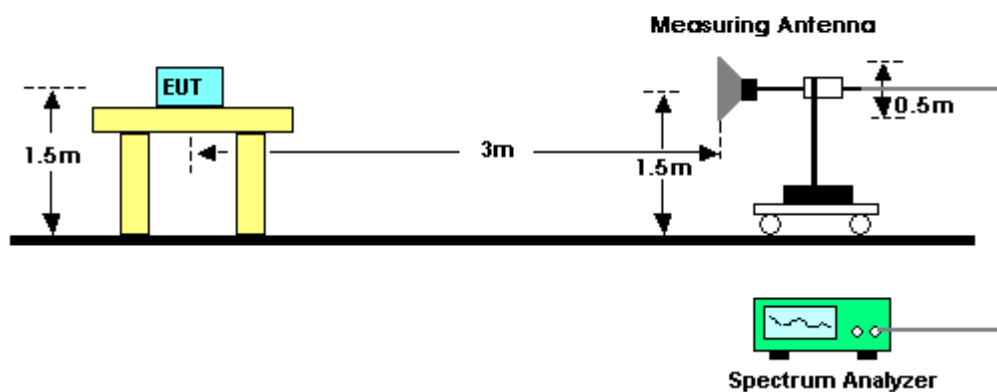
$$\Theta_0 = 360^{\circ} / A$$

$$\Theta_0$$
: The allowable angle of the main radiation of EUT transmission antenna ($^{\circ}$)

$$A$$
: EIRP Power [mW] / 16.36 or 8.18 [mW] (If $A < 1$; then $A = 1$)
- Rotate the EUT in the horizontal direction, reducing the angle of the rotating table by 3 dB from the maximum point of received power "E" (Θ_h : Measure the half angle of the horizontal plane).
- Place the EUT horizontally and rotate it as much as possible around the entire circumference from the main radiation direction Θ_0 to the radiation angle other than the one calculated in step 5, ensuring that the received power drops by more than 3dB from the maximum point "E" of the received power.

8. Vertical tilt EUT, measuring the angle from the horizontal plane when the received power drops by 3dB from the maximum point "E" (θ_v : The half value angle of the vertical plane).
9. After returning the test equipment to position 3, the angle of the main radiation calculated from the direction of the main radiation Θ_0 should be inclined along the vertical plane direction at the widest possible angle (set at 90 degrees or above) for other radiation angles, ensuring that the received power drops by more than 3dB from the maximum point "E" of the received power.

3.7.4. TEST SETUP LAYOUT



3.7.5. TEST DEVIATION

There is no deviation with the original standard.

3.7.6. EUT OPERATION DURING TEST

The EUT was programmed to be in un-modulation mode.

3.7.7. TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

Method of measurement:	See MIC Notice No.88 Appendix No.43 Clause 11
Results:	N/A

3.8. RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

3.8.1. LIMIT

Item	Limits (See Article 9-4 Item 5 of the Ordinance Regulating Radio Equipment and Article 6-2 Item 3 of the Regulation for Enforcement of the Radio Law)
Identification code	The wireless equipment of the radio station mainly used in the same station automatically sends or receives the identification code.

3.8.2. MEASURING ID CODE SOFTWARE

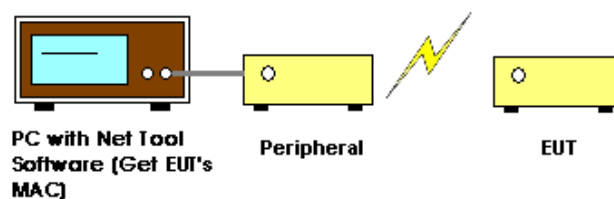
PC with Net Tool	Setting
MAC IP List	MAC Scan

3.8.3. TEST PROCEDURES

Test method according to Clause 23 of Annex No.43 of MIC Notification No.88.

1. In the case that the EUT has the function of automatically transmitting the identification code:
 - a. Transmit the predetermined identification codes from EUT.
 - b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code:
 - a. Transmit the predetermined identification codes from the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other than predetermined ID codes from the counterpart.
 - d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

3.8.4. TEST SETUP LAYOUT



3.8.5. TEST DEVIATION

There is no deviation with the original standard.

3.8.6. EUT OPERATION DURING TEST

The EUT was programmed to be in normal mode.

3.8.7. TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

Test Power:	Normal Voltage
Test Mode:	IEEE 802.11b
Test Result:	Pass (identification code: [36:98:76:81:72: dc])

36:98:76:81:72:dc

3.9. CARRIER SENSE CAPABILITY MEASUREMENT

3.9.1. LIMIT

Item	Limits
	(See Article 49-20 of the Ordinance Regulating Radio Equipment)
Carrier Sense	Pass - EUT stop RF transmission signal after carrier inject to EUT. (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m)

3.9.2. SETTING

The following table is the setting of the spectrum analyzer.

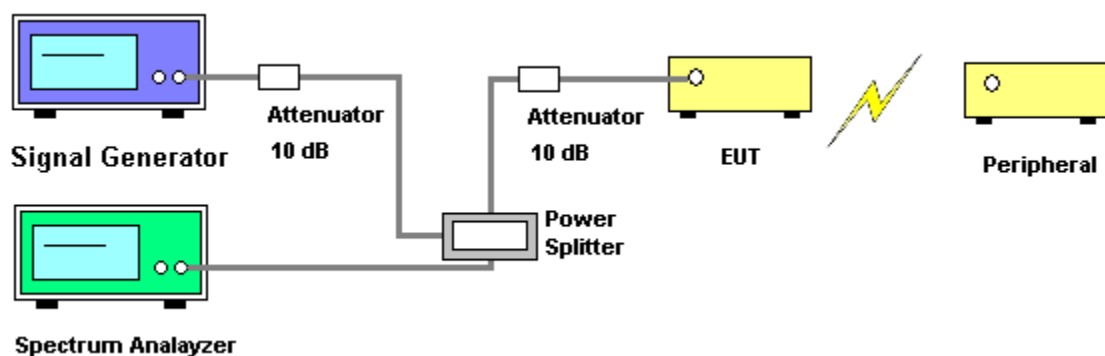
Spectrum Parameter	Setting
RBW / VBW	1MHz / 1MHz
Span	50MHz
Sweep	Continuous
Detector	Peak

3.9.3. TEST PROCEDURES

Test method according to Clause 8 of Annex No.43 of MIC Notification No.88.

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the unmodulation from SG and power level is (On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m). Then turn off the RF signal of SG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Set spectrum analyzer with condition in section 3.9.2 and tune reference level to observe receiving signal position.
4. SG RF signal on.
5. EUT shall be stop the transmitted any signal.
6. SG RF Signal Off.
7. Then EUT will be continuous transmitted signal.

3.9.4. TEST SETUP LAYOUT



3.9.5. TEST DEVIATION

There is no deviation with the original standard.

3.9.6. EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

3.9.7. TEST RESULT OF CARRIER SENSE CAPABILITY

Test Power:	Normal Voltage
Test Mode:	IEEE 802.11n-HT40
Test Result:	Pass

3.10. CONSTRUCTION PROTECTION CONFIRMATION METHOD

3.10.1. LIMIT

(See Article 49-20 of the Ordinance Regulating Radio Equipment)

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

3.10.2. CONFIRMATION METHOD

The RF and modulation portions are protected against illegal modification as following method:

Tick the appropriate box	
☐	1. Sealed with special screws.
☐	2. Plastic chassis is being welded using ultrasonic waves.
☐	3. Chassis is glued using a special adhesive.
☐	4. Metal covers are spot-fused.
☐	5. Cover is specially interlocked.
☐	6. RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	7. Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	8. Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	9. Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☒	10. RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable part on PCB or adjustable parts are not exposed.

4. LIST OF MEASURING EQUIPMENTS

Kind of Equipment	Manufacturer	Model No.	Serial No.	Validity Date (See Note 1)	Calibration Agency	Class Information
Spectrum Analyzer	R&S	FSP38	100852	May 27, 2026	CEPREI Calibration and Testing Center	(c)
Measurement Software	BTL	BTL Conducted Test	N/A	N/A	N/A	-
Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A	N/A	-
AC power source	Preen	AFC-S-1250	F123080107	Dec. 06, 2025	CEPREI Calibration and Testing Center	(c)
Multimeter	FLUKE	15B+(TR13)	45123773W S	May 17, 2026	CEPREI Calibration and Testing Center	(c)
DC Block	N/A	N/A	N/A	N/A	N/A	-
Peak Power Analyzer	Keysight	8990B	MY51000506	May 17, 2026	CEPREI Calibration and Testing Center	(c)
Wideband power sensor	Keysight	N1923A	MY58310004	May 17, 2026	CEPREI Calibration and Testing Center	(c)
Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A	N/A	-
MXA Signal Analyzer	Keysight	N9010A	MY56480543	Jan. 10, 2026	CEPREI Calibration and Testing Center	(c)
Cable	RegalWay	RWP50-402-SM SM-1M	NA	N/A	N/A	-
Cable	RegalWay	RWP50-402-SM SM-1M	NA	N/A	N/A	-
Cable	RegalWay	RWP50-402-SM SM-2M	N/A	N/A	N/A	-
Cable	RegalWay	RWP50-402-SM SM-1M	NA	N/A	N/A	-
Shielding box	JiaChen	JC-PB2015	PB20132310 378A	N/A	N/A	-
Attenuator	RegalWay	RWPA-6000-110 -MA	N/A	May 27, 2026	CEPREI Calibration and Testing Center	(c)
Power Divider	RegalWay	RW-PD4-0118S F30	N/A	May 27, 2026	CEPREI Calibration and Testing Center	(c)
MXG Vector Signal Generator	Keysight	N5182B	MY57300318	Jan. 10, 2026	CEPREI Calibration and Testing Center	(c)
Gaming Router	Tplink	Archer GE800	N/A	N/A	N/A	-
Cable	RegalWay	RWP50-402-SM SM-2M	N/A	N/A	N/A	-

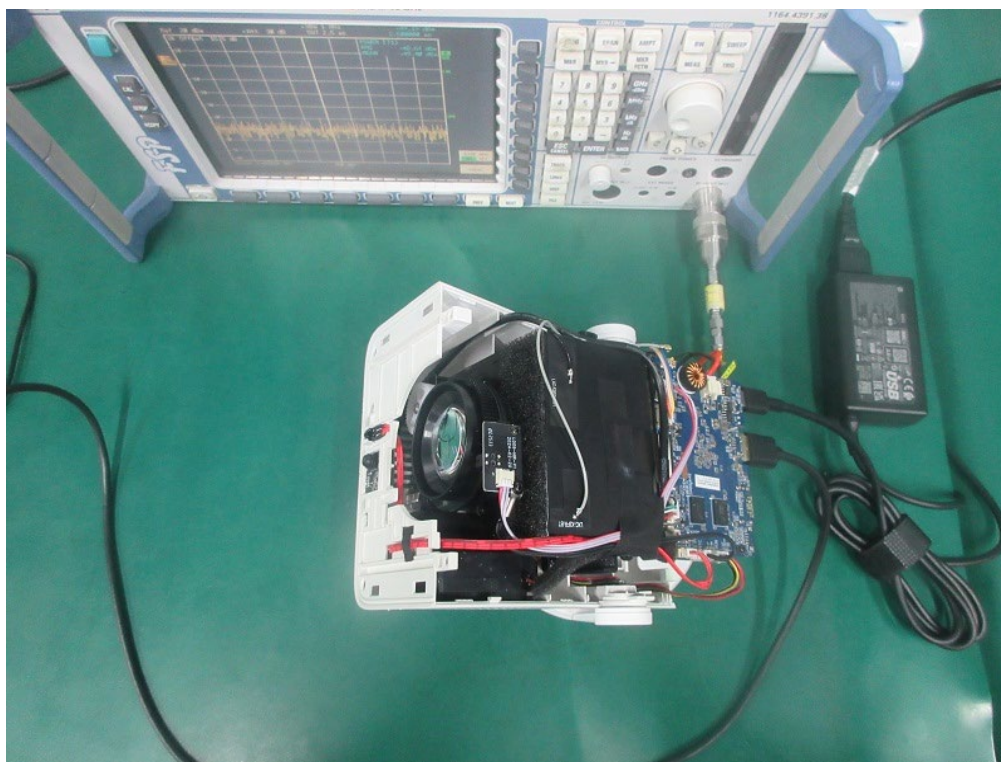
Remark:

- a. Calibration conducted by the National Institute of Information and Communications Technology (NITC) in Japan (hereinafter referred to as "NITC") or a designated calibration agency under Article 102-18 paragraph (1) in JRL.
- b. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No.51 of 1992).
- c. Calibration conducted in countries except Japan, which shall be equivalent to the calibration Conducted by the NITC or a designation agency under Article 102-18 paragraph (1).
- d. Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No.3, which shall have been given any type of calibration, etc. listed above from (a) to (c). From JRL Article 24-2, paragraph 4, item 2.

Note:

1. "N/A" denotes the equipment is verified or confirmed internally by test lab.
2. The calibration interval of the above test instruments is 12 months.
3. The Calibration Agency(CHINA CEPREI LABORATORY) address for the Building 9, No. 78, West Zhucun Avenue, Zhucun Street, Zengcheng District, Guangzhou City.

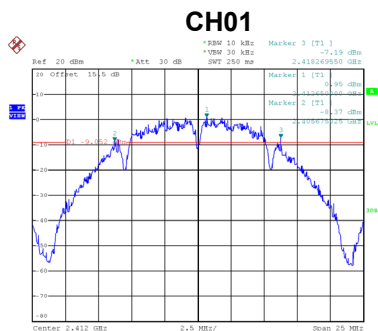
5. EUT TEST PHOTO



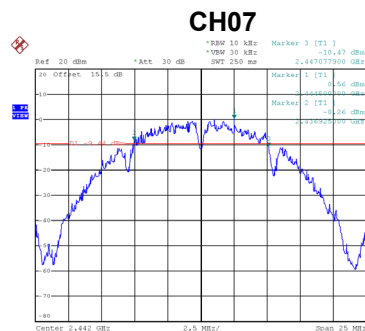
APPENDIX A - FREQUENCY TOLERANCE

Test Mode:	TX Mode_ IEEE 802.11b
------------	-----------------------

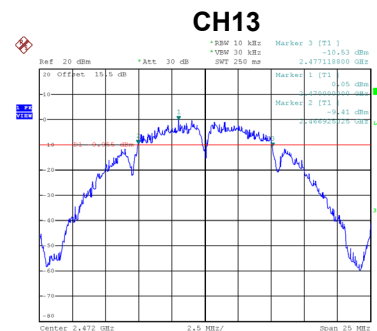
Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2411.9723	2442.0015	2472.0219	-
Frequency Tolerance (ppm)	-11.48	+0.61	+8.86	Limit: -50≤ppm≤50



Date: 18.OCT.2025 16:20:59



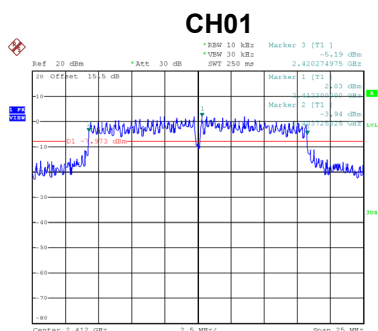
Date: 18.OCT.2025 16:25:17



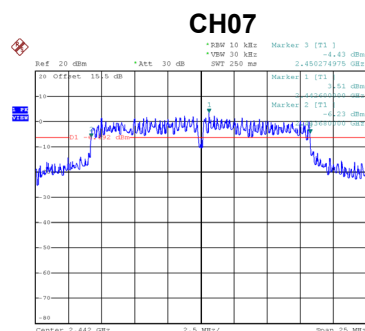
Date: 18.OCT.2025 16:29:37

Test Mode:	TX Mode_ IEEE 802.11g
------------	-----------------------

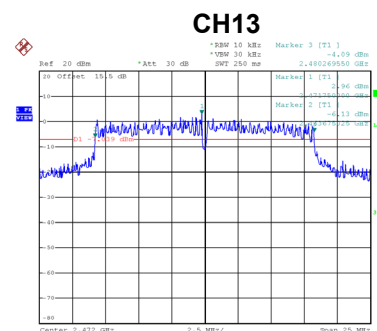
Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2412	2441.9775	2471.9723	-
Frequency Tolerance (ppm)	0.00	-9.21	-11.21	Limit: -50≤ppm≤50



Date: 14.OCT.2025 20:52:30



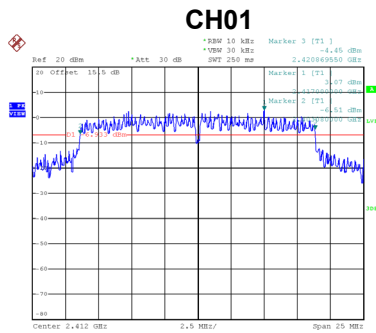
Date: 14.OCT.2025 20:53:34



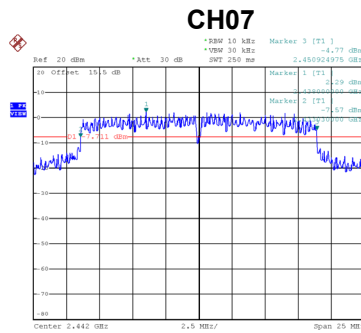
Date: 14.OCT.2025 20:54:35

Test Mode:	TX Mode_ IEEE 802.11n(HT20)
------------	-----------------------------

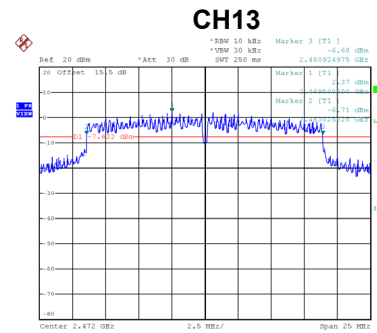
Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2411.9748	2441.9775	2471.975	-
Frequency Tolerance (ppm)	-10.45	-9.21	-10.11	Limit: $-50 \leq \text{ppm} \leq 50$



Date: 14.OCT.2025 20:57:28



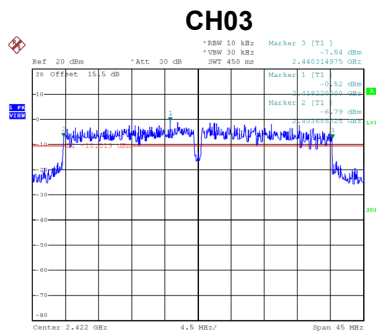
Date: 14.OCT.2025 20:58:29



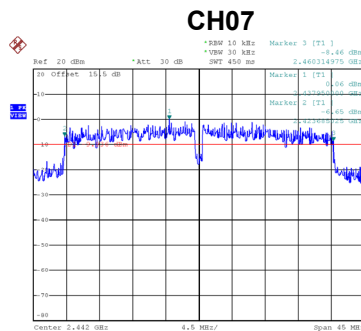
Date: 14.OCT.2025 20:59:37

Test Mode:	TX Mode_ IEEE 802.11n(HT40)
------------	-----------------------------

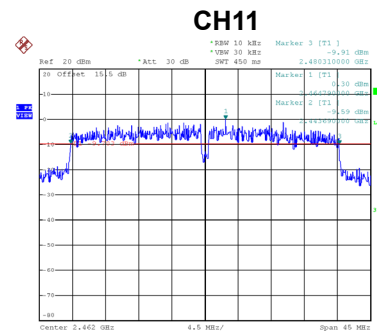
Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2422	2442	2462	Low/Mid/High of test frequency range
Measured Frequency (MHz)	2422	2442	2462	-
Frequency Tolerance (ppm)	0.00	0.00	0.00	Limit: $-50 \leq \text{ppm} \leq 50$



Date: 14.OCT.2025 21:00:42



Date: 14.OCT.2025 21:01:49

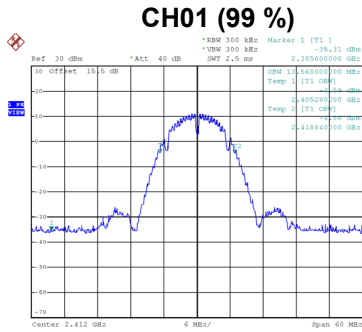


Date: 14.OCT.2025 21:02:58

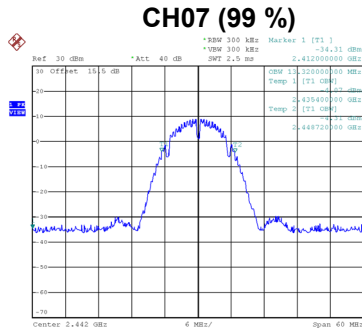
APPENDIX B - OCCUPIED BANDWIDTH

Test Mode:	TX Mode_ IEEE 802.11b
------------	-----------------------

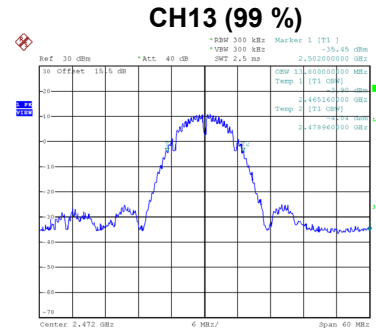
Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Occupied Bandwidth (MHz)	13.56	13.32	13.80	Limit ≤ 26 MHz



Date: 14.OCT.2025 19:16:55



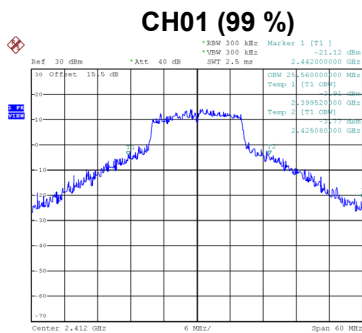
Date: 14.OCT.2025 19:20:19



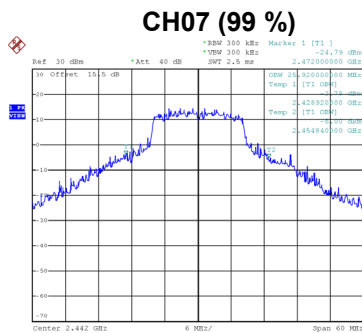
Date: 14.OCT.2025 19:21:51

Test Mode:	TX Mode_ IEEE 802.11g
------------	-----------------------

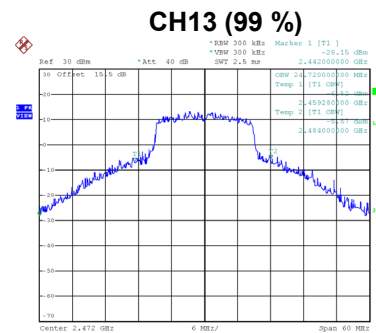
Test Voltage	Normal Voltage			Remarks
Test Frequency (MHz)	2412	2442	2472	Low/Mid/High of test frequency range
Occupied Bandwidth (MHz)	25.56	25.92	24.72	Limit ≤ 26 MHz



Date: 14.OCT.2025 19:30:54



Date: 14.OCT.2025 20:04:56



Date: 14.OCT.2025 20:17:31

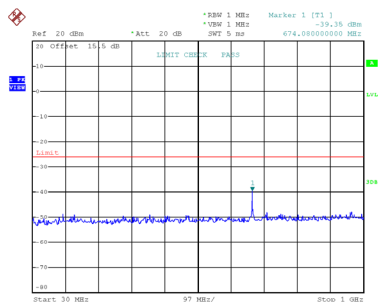
APPENDIX C - UNWANTED EMISSION INTENSITY

Test Mode:	TX Mode_IEEE 802.11b
------------	----------------------

Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	674.08	705.12	734.22	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.1161	0.0458	0.1169	
	※2	MHz	2387.00	2262.17	1235.79	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0556	0.0251	0.0238	
	※3	MHz	2397.06	2394.44	2391.42	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	3.1333	0.0515	0.0429	
	※4	MHz	2487.97	2488.96	2486.72	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0535	0.0571	4.5394	
※5	MHz	4817.31	4877.33	4937.35	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)	
	μW/MHz	0.0538	1.1885	0.0460		

Note

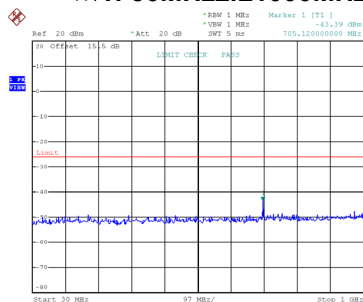
CH01



Date: 14.OCT.2025 19:17:04

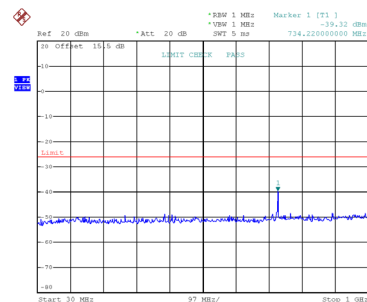
CH07

※1: 30MHz≤f≤1000MHz



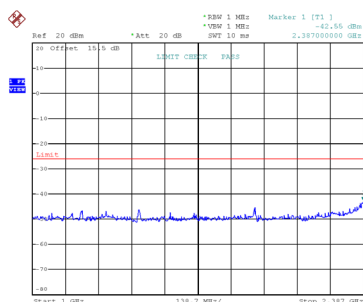
Date: 14.OCT.2025 19:20:35

CH13

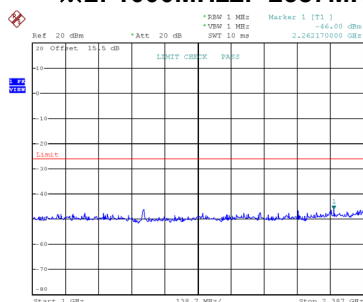


Date: 14.OCT.2025 19:22:07

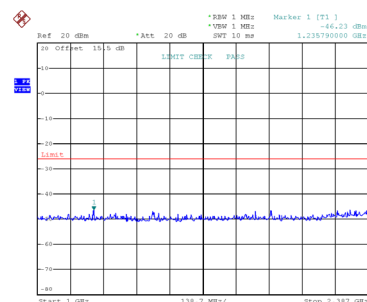
※2: 1000MHz≤f<2387MHz



Date: 14.OCT.2025 19:17:13

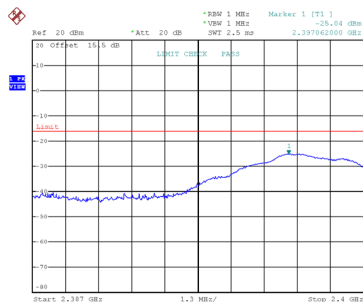


Date: 14.OCT.2025 19:20:44

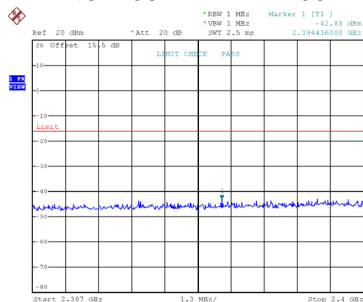


Date: 14.OCT.2025 19:22:16

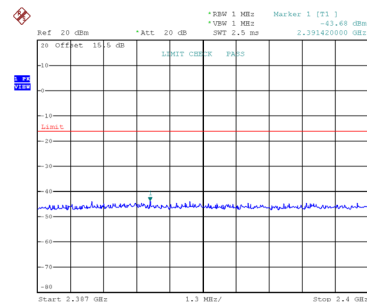
※3: 2387MHz≤f<2400MHz



Date: 14.OCT.2025 19:17:22

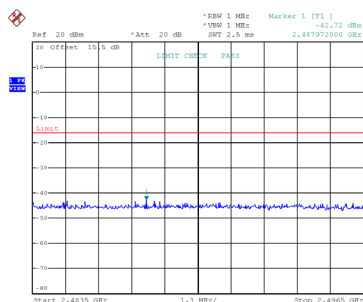


Date: 14.OCT.2025 19:20:52

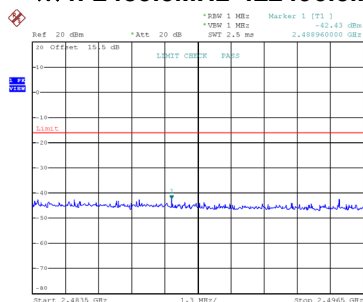


Date: 14.OCT.2025 19:22:25

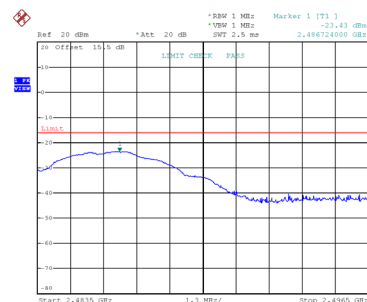
※4: 2483.5MHz≤f≤2496.5MHz



Date: 14.OCT.2025 19:17:31

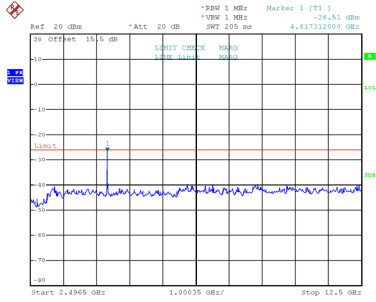


Date: 14.OCT.2025 19:21:01



Date: 14.OCT.2025 19:22:33

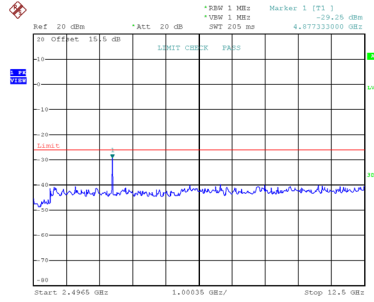
CH01



Date: 14.OCT.2025 19:17:40

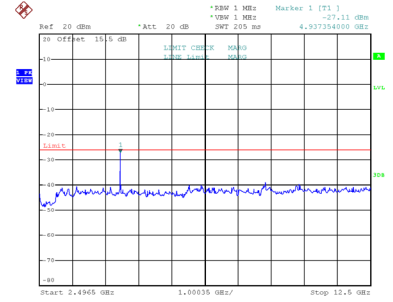
CH07

※5: 2496.5MHz<f



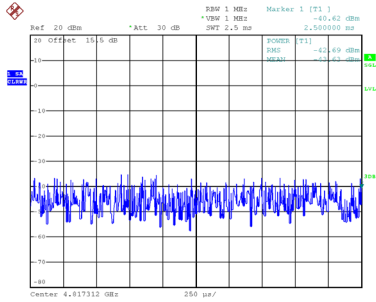
Date: 14.OCT.2025 19:21:10

CH13



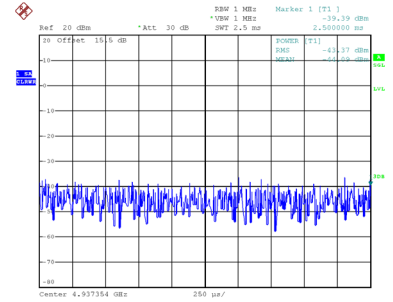
Date: 14.OCT.2025 19:22:42

ZeroSP



Date: 14.OCT.2025 19:17:44

ZeroSP



Date: 14.OCT.2025 19:22:46

Test Mode:	TX Mode_ IEEE 802.11g
------------	-----------------------

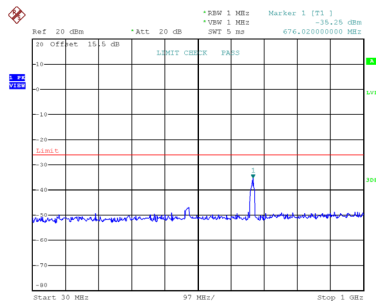
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	676.02	703.18	728.40	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.2985	0.1791	0.1774	
	※2	MHz	2387.00	2387.00	1979.22	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.6998	0.3516	0.0635	
	※3	MHz	2399.40	2398.54	2394.31	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0153	9.0782	0.2270	
	※4	MHz	2483.63	2484.77	2483.53	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.2104	6.9502	0.0137	
※5	MHz	4817.31	4877.33	2496.50	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)	
	μW/MHz	0.4074	0.6792	0.0134		

Note

Explanation of Marker and ZeroSP test:

- 1) The frequency of Marker during testing is the frequency that exceeds the limit the most.
- 2) The testing of ZeroSP is the worst, covering the entire frequency band.

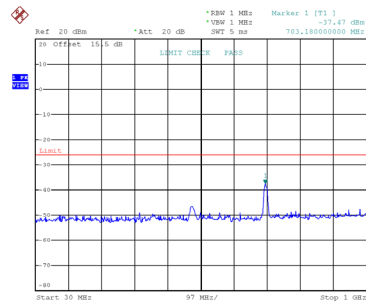
CH01



Date: 14.OCT.2025 19:31:03

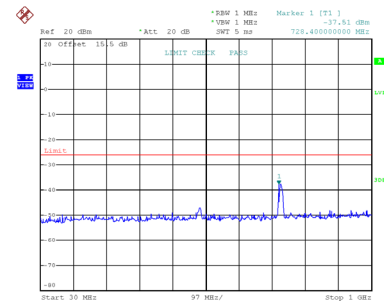
CH07

※1: 30MHz≤f≤1000MHz



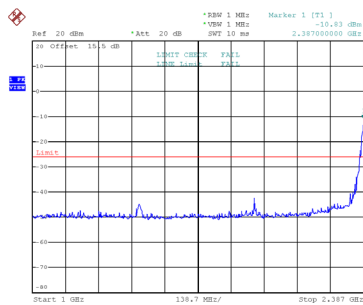
Date: 14.OCT.2025 19:32:35

CH13

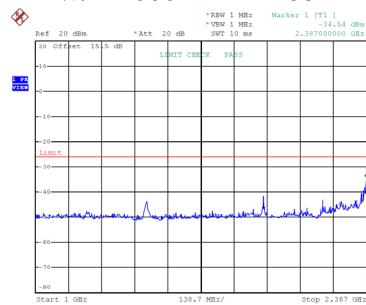


Date: 14.OCT.2025 20:17:41

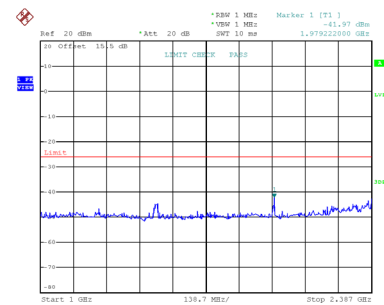
※2: 1000MHz≤f<2387MHz



Date: 14.OCT.2025 19:31:12

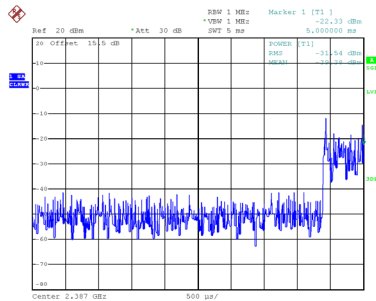


Date: 14.OCT.2025 19:32:44



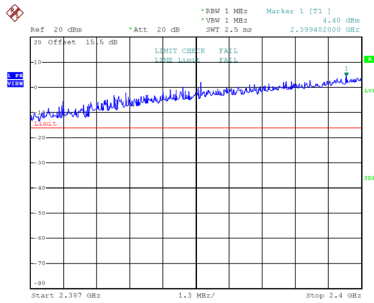
Date: 14.OCT.2025 20:17:50

ZeroSP

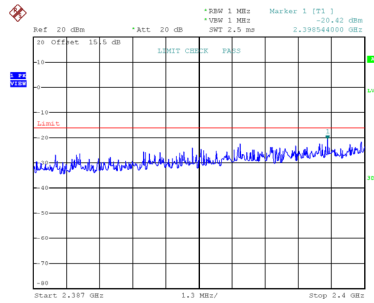


Date: 14.OCT.2025 19:31:16

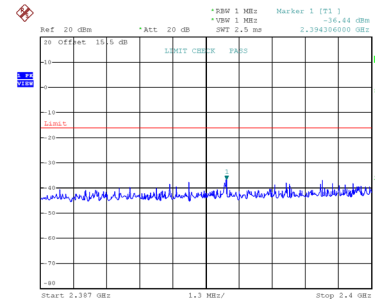
※3: 2387MHz<f<2400MHz



Date: 14.OCT.2025 19:31:26

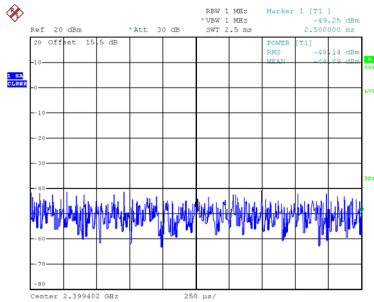


Date: 14.OCT.2025 19:32:53



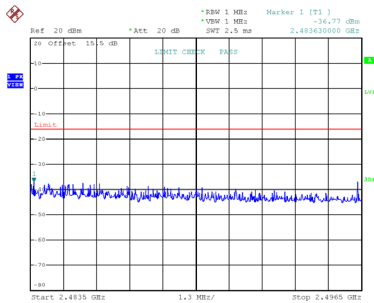
Date: 14.OCT.2025 20:17:58

ZeroSP

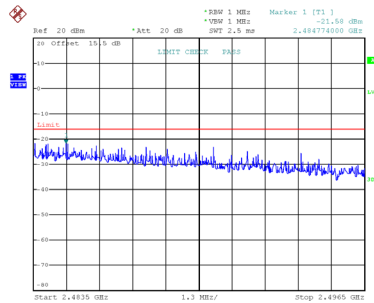


Date: 14.OCT.2025 19:31:30

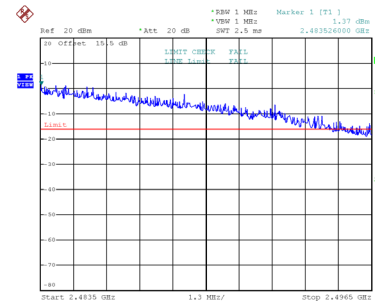
※4: 2483.5MHz<f≤2496.5MHz



Date: 14.OCT.2025 19:31:40

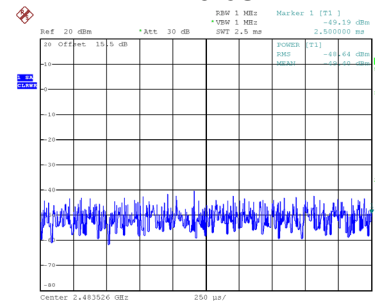


Date: 14.OCT.2025 19:33:01



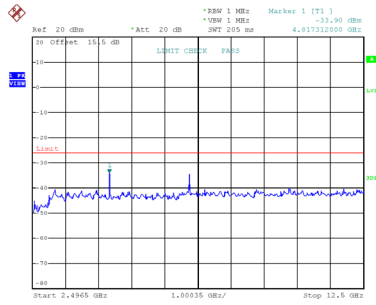
Date: 14.OCT.2025 21:59:10

ZeroSP



Date: 14.OCT.2025 21:59:14

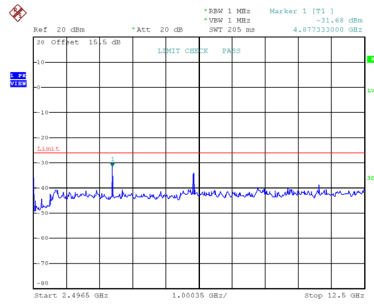
CH01



Date: 14.OCT.2025 19:31:49

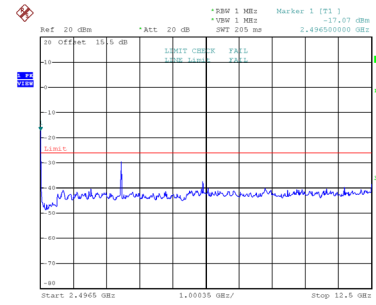
CH07

※5: 2496.5MHz<f



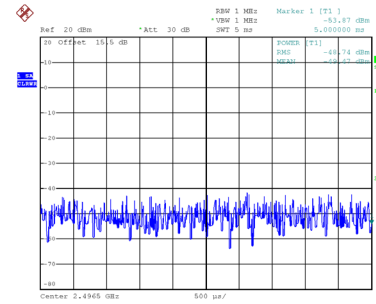
Date: 14.OCT.2025 19:33:10

CH13



Date: 14.OCT.2025 20:18:21

ZeroSP



Date: 14.OCT.2025 20:18:25

Test Mode:	TX Mode_IEEE 802.11n(HT20)
------------	----------------------------

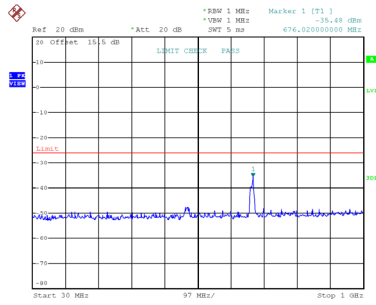
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	676.02	703.18	736.16	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.2831	0.1483	0.1644	
	※2	MHz	2387.00	2387.00	1979.22	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.5848	0.3499	0.0726	
	※3	MHz	2400.00	2399.56	2398.47	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0152	10.3753	0.2972	
	※4	MHz	2494.97	2483.86	2483.66	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.8035	7.5858	0.0137	
	※5	MHz	4817.31	4877.33	4937.35	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.7586	0.4742	0.9863	

Note

Explanation of Marker and ZeroSP test:

- 1) The frequency of Marker during testing is the frequency that exceeds the limit the most.
- 2) The testing of ZeroSP is the worst, covering the entire frequency band.

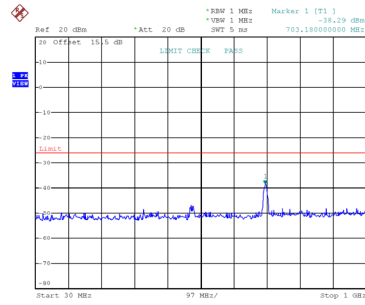
CH01



Date: 14.OCT.2025 20:10:52

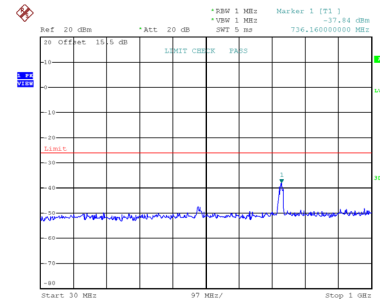
CH07

※1: 30MHz≤f<1000MHz



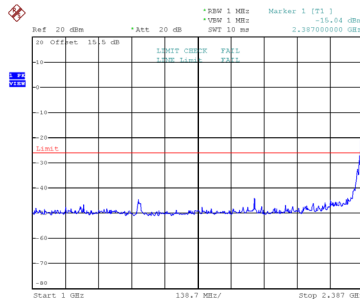
Date: 14.OCT.2025 20:13:05

CH13

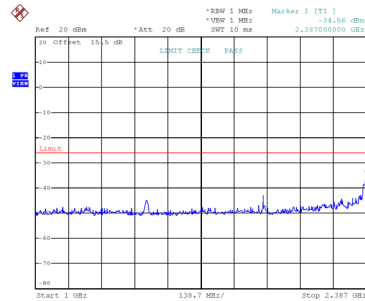


Date: 14.OCT.2025 20:14:54

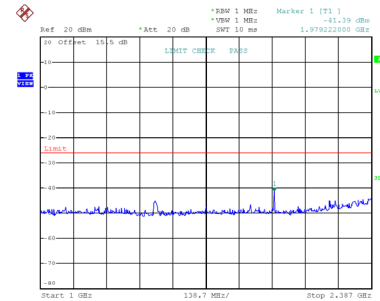
※2: 1000MHz≤f<2387MHz



Date: 14.OCT.2025 20:11:01

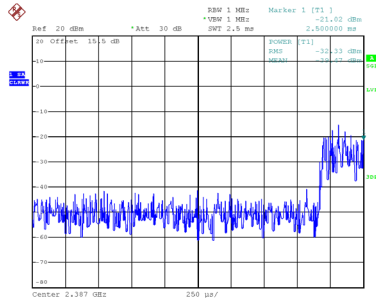


Date: 14.OCT.2025 20:13:14



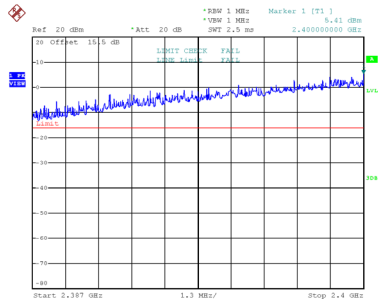
Date: 14.OCT.2025 20:15:03

ZeroSP



Date: 14.OCT.2025 20:11:05

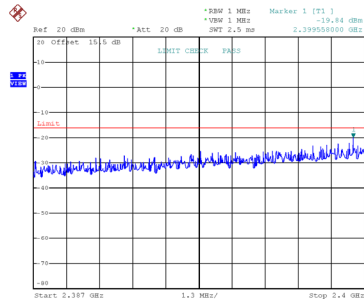
CH01



Date: 14.OCT.2025 20:11:15

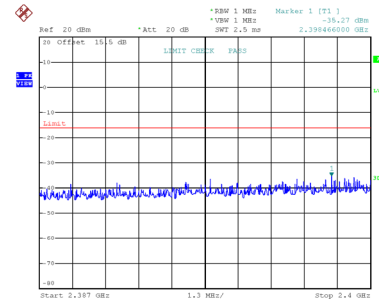
CH07

※3: 2387MHz<f<2400MHz



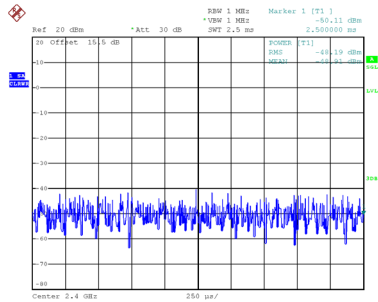
Date: 14.OCT.2025 20:13:23

CH13



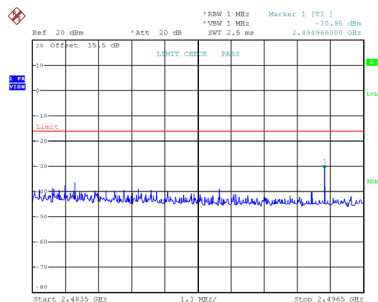
Date: 14.OCT.2025 20:25:21

ZeroSP

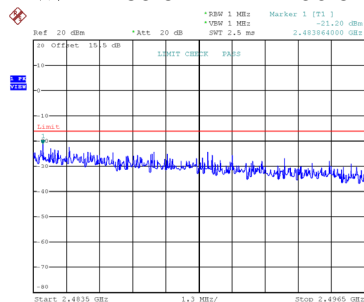


Date: 14.OCT.2025 20:11:19

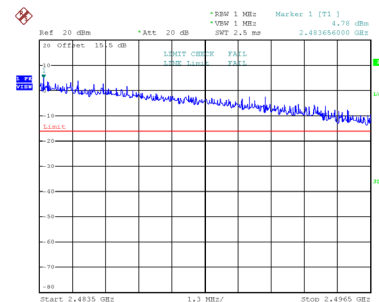
※4: 2483.5MHz<f≤2496.5MHz



Date: 14.OCT.2025 20:11:28

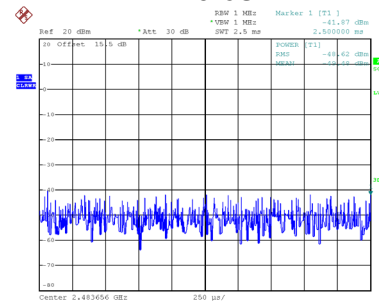


Date: 14.OCT.2025 20:13:32



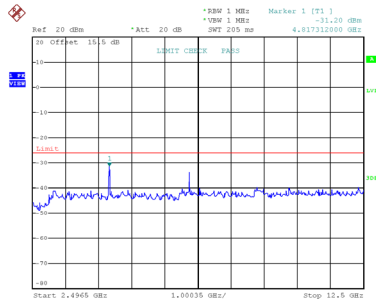
Date: 14.OCT.2025 20:28:54

ZeroSP



Date: 14.OCT.2025 20:28:58

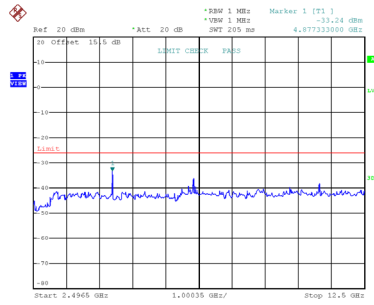
CH01



Date: 14.OCT.2025 20:11:37

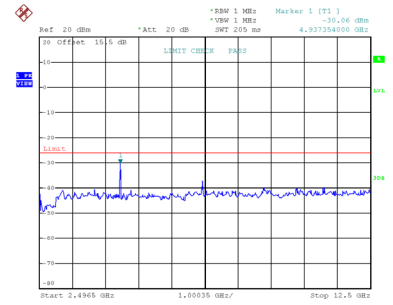
CH07

※5: 2496.5MHz<f



Date: 14.OCT.2025 20:13:41

CH13



Date: 14.OCT.2025 20:29:08

Test Mode:	TX Mode_ IEEE 802.11n(HT40)
------------	-----------------------------

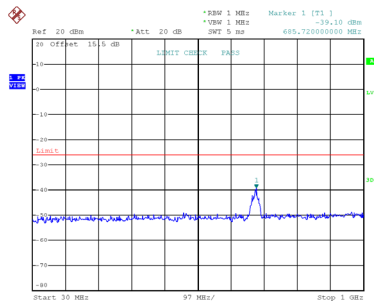
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2422	2442	2462	Low/Mid/High of test frequency range
Unwanted Emission Intensity (Power emission within 1MHz bandwidth)	※1	MHz	685.72	703.18	716.76	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.1230	0.1059	0.0912	
	※2	MHz	2387.00	2387.00	2387.00	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)
		μW/MHz	0.0139	0.0136	1.5488	
	※3	MHz	2398.44	2399.82	2396.54	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	18.4927	6.4121	0.3273	
	※4	MHz	2486.33	2484.07	2483.63	Limit ≤ 25 μW/MHz (-16 dBm/MHz)
		μW/MHz	0.0133	0.0140	0.0137	
※5	MHz	4837.32	2496.50	2496.50	Limit ≤ 2.5 μW/MHz (-26 dBm/MHz)	
	μW/MHz	0.3963	0.0135	0.0135		

Note:

Explanation of Marker and ZeroSP test:

- 1) The frequency of Marker during testing is the frequency that exceeds the limit the most.
- 2) The testing of ZeroSP is the worst, covering the entire frequency band.

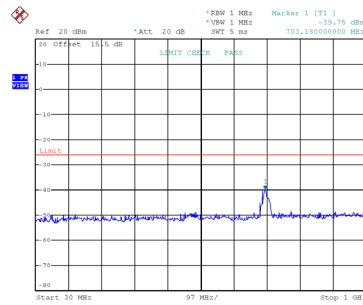
CH03



Date: 14.OCT.2025 20:30:59

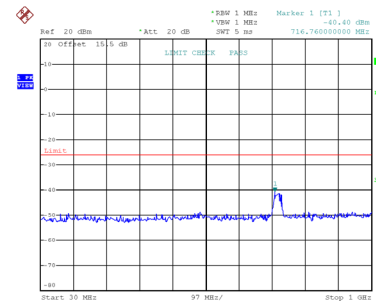
CH07

※1: 30MHz≤f≤1000MHz



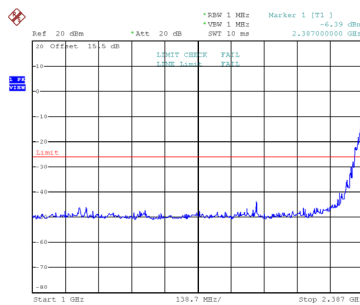
Date: 14.OCT.2025 20:32:42

CH11

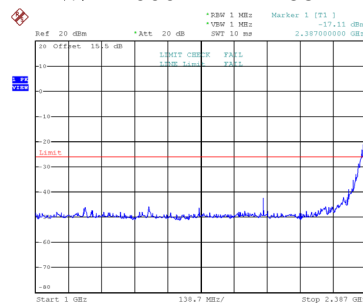


Date: 14.OCT.2025 20:34:17

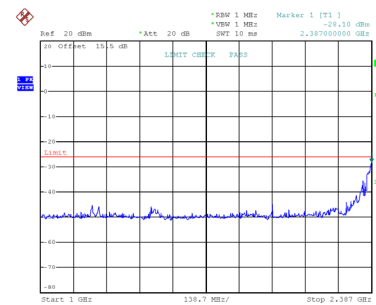
※2: 1000MHz≤f<2387MHz



Date: 14.OCT.2025 20:31:08

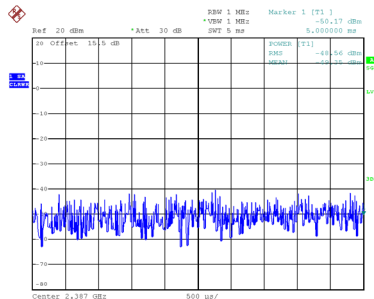


Date: 14.OCT.2025 20:32:51



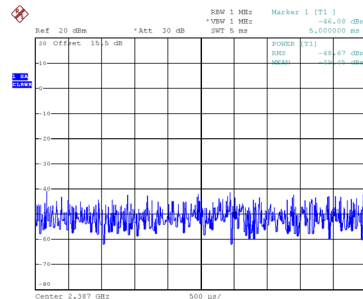
Date: 14.OCT.2025 20:34:26

ZeroSP



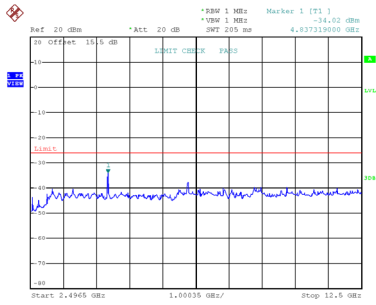
Date: 14.OCT.2025 20:31:12

ZeroSP



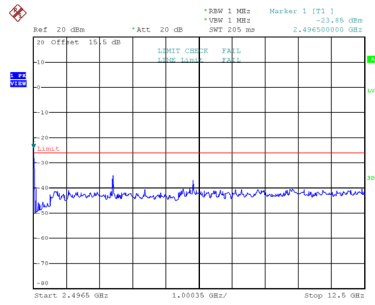
Date: 14.OCT.2025 20:32:55

CH03



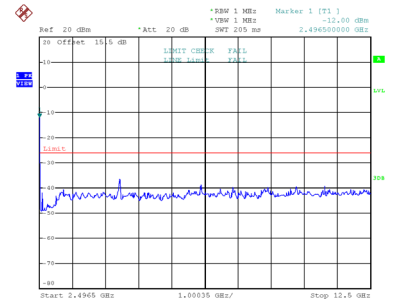
Date: 14.OCT.2025 20:31:49

CH07
※5: 2496.5MHz<f



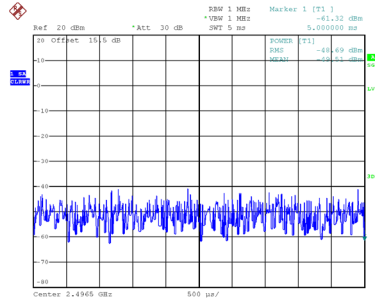
Date: 14.OCT.2025 20:33:32

CH11



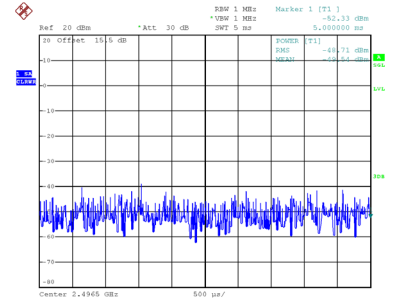
Date: 14.OCT.2025 20:35:03

ZeroSP



Date: 14.OCT.2025 20:33:36

ZeroSP



Date: 14.OCT.2025 20:35:07

APPENDIX D - ANTENNA POWER TOLERANCE AND EIRP ANTENNA POWER

Test Mode:	TX Mode_IEEE 802.11b
------------	----------------------

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2412	8.65	7.3282	7.33	10	-0.02	%
2442	8.18	6.5766	7.33	10	-10.28	%
2472	8.13	6.5013	7.33	10	-11.31	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2412	11.83	12.14
2442	11.36	12.14
2472	11.31	12.14

Note:

1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. EIRP (dBm/MHz) = conducted antenna power (dBm/MHz) + max. antenna gain (dBi)

Test Mode:	TX Mode_IEEE 802.11g
------------	----------------------

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2412	4.21	2.6363	2.80	10	-5.85	%
2442	4.47	2.7990	2.80	10	-0.04	%
2472	4.03	2.5293	2.80	10	-9.67	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2412	7.39	12.14
2442	7.65	12.14
2472	7.21	12.14

Note:

1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. EIRP (dBm/MHz) = conducted antenna power (dBm/MHz) + max. antenna gain (dBi)

Test Mode:	TX Mode_IEEE 802.11n(HT20)
------------	----------------------------

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2412	4.47	2.7990	2.80	10	-0.04	%
2442	4.08	2.5586	2.80	10	-8.62	%
2472	3.69	2.3388	2.80	10	-16.47	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2412	7.65	12.14
2442	7.26	12.14
2472	6.87	12.14

Note:

1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. EIRP (dBm/MHz) = conducted antenna power (dBm/MHz) + max. antenna gain (dBi)

Test Mode:	TX Mode_IEEE 802.11n(HT40)
------------	----------------------------

Normal Voltage

Test Frequency	Conducted Antenna Power		Rated Antenna Power	Conducted Antenna Power Limit	Antenna Power Tolerance Limit	
(MHz)	(dBm/MHz)	(mW/MHz)	(mW/MHz)	(mW/MHz)	(+20%)	
2422	-1.65	0.6839	0.69	5	-0.88	%
2442	-1.63	0.6871	0.69	5	-0.42	%
2462	-1.80	0.6607	0.69	5	-4.25	%

Test Frequency	EIRP	Limit
(MHz)	(dBm/MHz)	(dBm/MHz)
2422	1.53	9.14
2442	1.55	9.14
2462	1.38	9.14

Note:

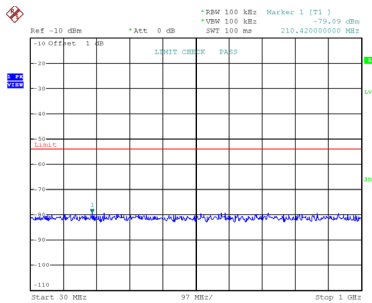
1. Antenna power tolerance = (conducted antenna power - rated antenna power)/rated antenna power * 100%
2. EIRP (dBm/MHz) = conducted antenna power (dBm/MHz) + max. antenna gain (dBi)

APPENDIX E - LIMITATION OF COLLATERAL EMISSION OF RECEIVER

Test Mode: RX Mode_ IEEE 802.11b

Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	210.42	897.18	602.30	Limit ≤ 4 nW (-54 dBm)
		nW	0.0123	0.0138	0.0137	
	※7	MHz	10246.00	10246.00	3208.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0378	0.0366	0.0409	

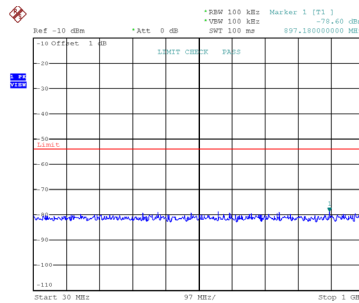
CH01



Date: 14.OCT.2025 21:32:57

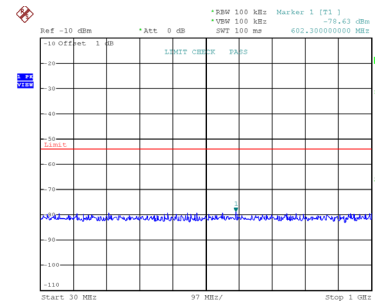
CH07

※6: f<1GHz



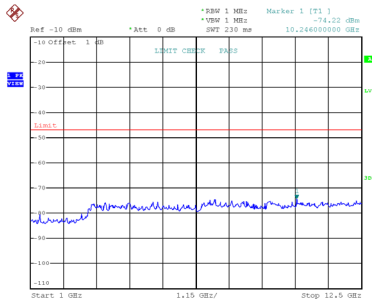
Date: 14.OCT.2025 21:33:17

CH13

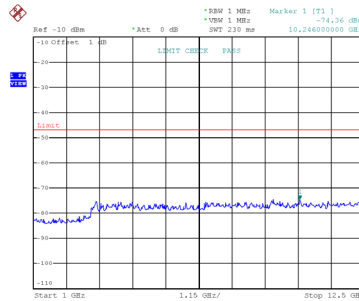


Date: 14.OCT.2025 21:33:39

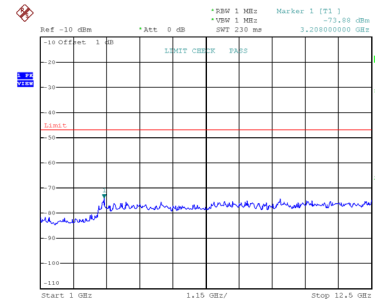
※7: 1GHz≤f



Date: 14.OCT.2025 21:33:05



Date: 14.OCT.2025 21:33:26

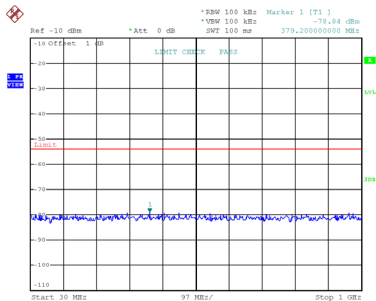


Date: 14.OCT.2025 21:33:48

Test Mode:	RX Mode_ IEEE 802.11g
------------	-----------------------

Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	379.20	439.34	245.34	Limit ≤ 4 nW (-54 dBm)
		nW	0.0131	0.0127	0.0135	
	※7	MHz	9303.00	12454.00	9326.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0435	0.0381	0.0350	

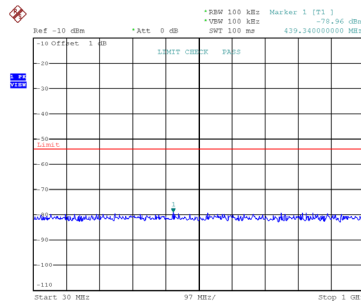
CH01



Date: 14.OCT.2025 21:34:04

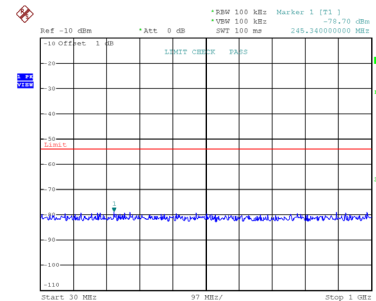
CH07

※6: f<1GHz



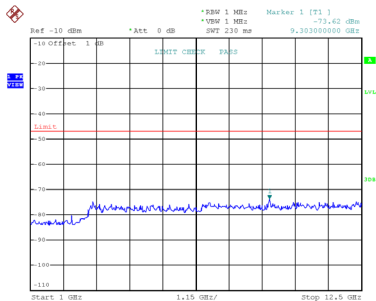
Date: 14.OCT.2025 21:34:23

CH13

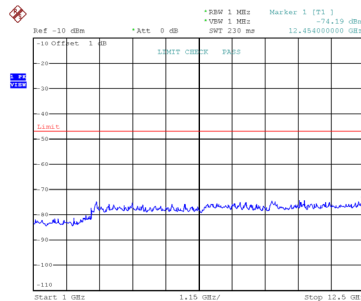


Date: 14.OCT.2025 21:34:46

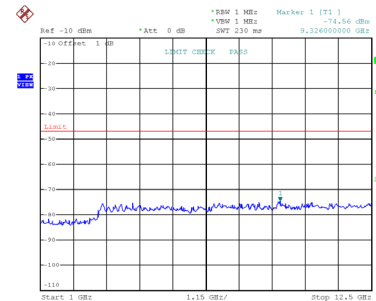
※7: 1GHz≤f



Date: 14.OCT.2025 21:34:13



Date: 14.OCT.2025 21:34:32

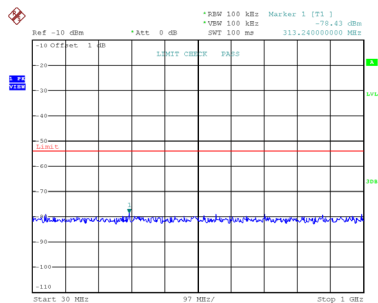


Date: 14.OCT.2025 21:34:55

Test Mode:	RX Mode_ IEEE 802.11n(HT20)
------------	-----------------------------

Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2412	2442	2472	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	313.24	86.26	419.94	Limit ≤ 4 nW (-54 dBm)
		nW	0.0144	0.0136	0.0141	
	※7	MHz	9326.00	8590.00	11764.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0369	0.0388	0.0377	

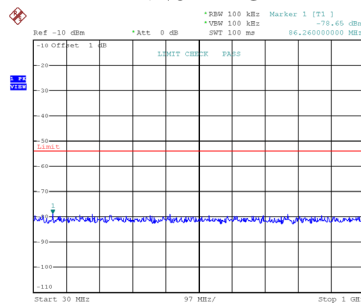
CH01



Date: 14.OCT.2025 21:35:12

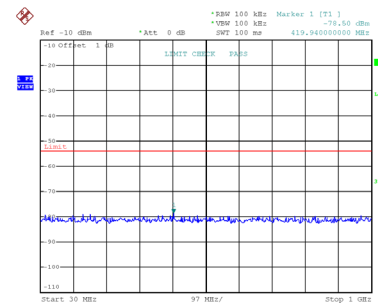
CH07

※6: f<1GHz



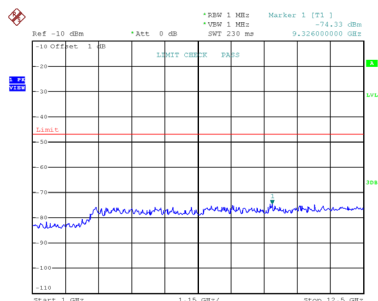
Date: 14.OCT.2025 21:35:40

CH13

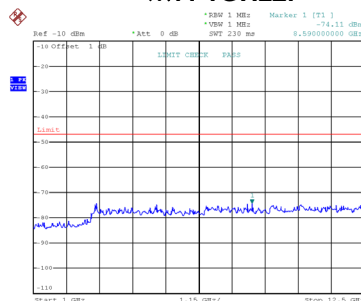


Date: 14.OCT.2025 21:36:11

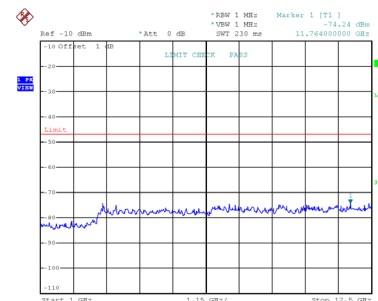
※7: 1GHz≤f



Date: 14.OCT.2025 21:35:21



Date: 14.OCT.2025 21:35:49

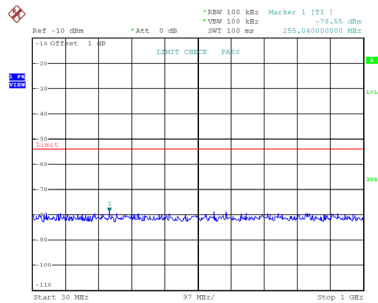


Date: 14.OCT.2025 21:36:20

Test Mode:	RX Mode_ IEEE 802.11n(HT40)
------------	-----------------------------

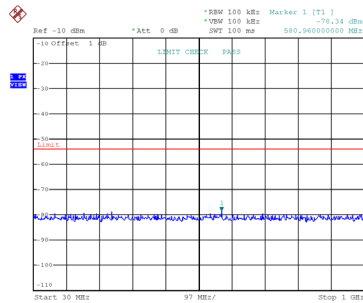
Test Voltage			Normal Voltage			Remarks
Test Frequency (MHz)			2422	2442	2462	Low/Mid/High of test frequency range
Limitation of Collateral Emission of Receiver	※6	MHz	255.04	580.96	796.30	Limit ≤ 4 nW (-54 dBm)
		nW	0.0140	0.0147	0.0149	
	※7	MHz	12362.00	11120.00	9280.00	Limit ≤ 20 nW (-47 dBm)
		nW	0.0366	0.0428	0.0379	

CH03

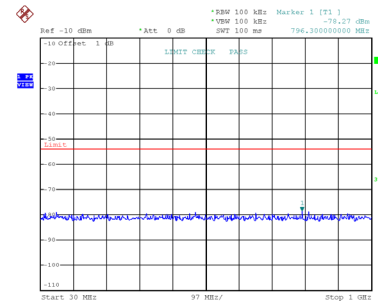


CH07

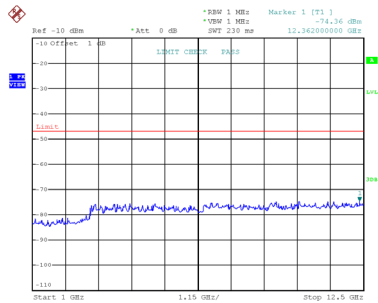
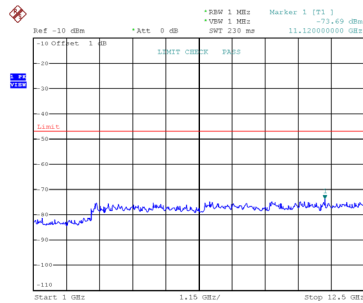
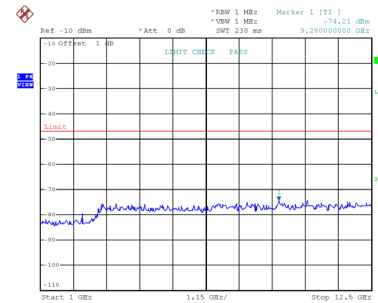
※6: f<1GHz



CH11



※7: 1GHz≤f



End of Test Report