

TEST REPORT

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Report Number : SZNS2220902-39863E-RF-07C

Test Standard (s)

Japan item 19-2 of Article 2 Paragraph 1

Sample Description

Product Type: 2.4G Wi-Fi Bluetooth Module
Model No.: Ai-WB2-12F, Ai-WB2-12S
Date Received: 2022-09-02
Date of Test: 2022-10-25 to 2022-11-24
Report Date: 2022-11-29

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Roger.Ling

Roger.Ling
EMC Engineer

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EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
TEST METHODOLOGY	3
EUT TEST CONFIGURATION	4
DESCRIPTION OF TEST CONFIGURATION	4
TEST VOLTAGE	4
EUT EXERCISE SOFTWARE	4
SUPPORT EQUIPMENT LIST AND DETAILS	4
SUMMARY OF TEST RESULTS	6
TEST EQUIPMENT LIST	7
FREQUENCY ERROR	8
LIMIT	8
TEST PROCEDURE	8
TEST DATA	8
OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH	11
LIMIT	11
TEST PROCEDURE	11
TEST DATA	11
TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY	16
LIMIT	16
TEST PROCEDURE	16
TEST DATA	16
ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE AND TRANSMISSION ANTENNA GAIN.....	19
LIMIT	19
TEST PROCEDURE	19
TEST DATA	20
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION	28
INTENSITY	28
LIMIT	28
TEST PROCEDURE	28
MEASUREMENT RESULT	28
INTERFERENCE PREVENTION FUNCTION.....	31
REQUIREMENT	31
TEST PROCEDURE	31
MEASUREMENT RESULT	31
CONSTRUCTION PROTECTION CONFIRMATION	32
LIMIT	32
CONFIRMATION METHOD.....	32

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Equipment Name		2.4G Wi-Fi Bluetooth Module
Tested Model		Ai-WB2-12F
Multiple Model		Ai-WB2-12S
Model difference		Please refer to DOS letter
Radio Type		WLAN
WIFI Technical Parameters	Support Technical	802.11b
	Modulation Type	DSSS
	Frequency Range	802.11b: 2484MHz
	Output Power	6.0 mW/MHz
	Antenna Gain	Internal Antenna (provided by the applicant) Ant1: 2.46dBi;
Nominal Power Supply:		DC 2.7-3.6V(typical DC 3.3V)
Sample serial number		SZNS2220902-39863E-RF-S1(assigned by ATC)
Sample/EUT Status		Good condition

Note: the series model Ai-WB2-12F and Ai-WB2-12S have same circuit and antenna design, the difference is Ai-WB2-12S PCBA deleted 6 pin pads, as the 6 pin was used for control flash component but the module's flash are inside, the extra 6 pins are unavailable which was confirmed by manufacturer. The output power was tested use both the two models and verified they have same setting, so other items was only test on model Ai-WB2-12F.

Objective

The objective of the manufacturer is to demonstrate compliance with Radio Law of Japan item 19-2 of Article 2 Paragraph 1, rules and limits for this device including:

- Frequency Error
- Occupied Bandwidth and Spreading Bandwidth
- Transmitter Spurious Emission and Unwanted Emission Intensity
- Antenna Output Power And Output Power Tolerance
- Receiver Spurious Emission Strength
- Interference Prevention Function
- Construction Protection Confirmation

Test Methodology

All measurements contained in this report were conducted with technical regulations of the Radio Law of Japan.

EUT TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a testing mode which was selected by manufacturer.
For frequency 2484MHz, channel 14 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
14	2484	/	/

Test Voltage

Test voltage:

The extreme voltage test conditions which were declared by the manufacturer and the normal conditions are as below:

NV: Normal Voltage DC 3.3V

LV: Low Voltage DC 2.7V

HV: High Voltage DC 3.6V

EUT Exercise Software

“BouffaloLabDevCubel”* exercise software was made to the EUT tested.

The test was performed: 802.11b 2484MHz : Data rate: 1Mbps, power level:19*

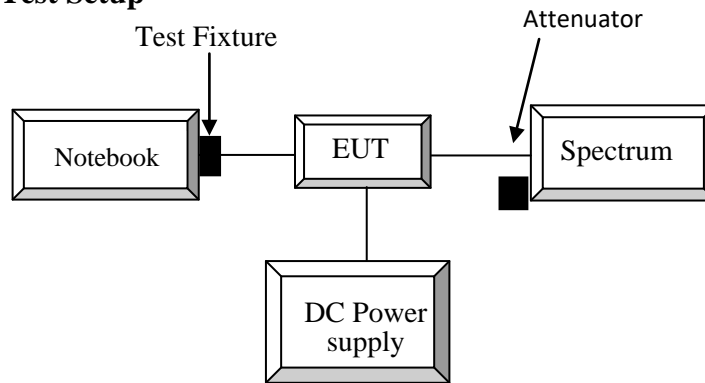
The software and power level was provided by the applicant.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Unknown	Test Fixture	Unknown	Unknown
LENOVO	Notebook	ThinkPad x240	SL10F31638JS
UNI-T	DC Power Supply	UTP8305B	10584

External I/O Cable

Cable Description	Length (m)	From/Port	To
Data Cable	0.1	Test Fixture	EUT
Power cable	1.0	DC Power Supply	EUT

Configuration of Test Setup

SUMMARY OF TEST RESULTS

MIC Notice No.88 Appendix No.44 Article 2, Paragraph 1, Item 19-2 Rules Section	Description of Test	Result
3	Frequency Error	Compliance
4	Occupied Bandwidth and Spreading Bandwidth	Compliance
5	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliance
6	Antenna Output Power and Output Power Tolerance	Compliance
7	Receiver Spurious Emission and Unwanted Emission Intensity	Compliance
8	Transmission Antenna Gain	Not Applicable
9	Transmission Radiation Angle Width	Not Applicable
11	Frequency Hopping Dwell Time	Not Applicable*
12	Interference Prevention Function	Compliance
Note 1	Construction Protection Confirmation	Compliance

Not Applicable - This test item was not required for the output power less than 12.14 dBm/MHz (E.I.R.P).

Not Applicable* - Testing is only required for FHSS system devices.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Authority	Calibration Method
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101948	2021/12/13	2022/12/12	CCIC	C
Rohde & Schwarz	Wideband Radio Communication Tester	CMW500	154606	2021/12/13	2022/12/12	CCIC	C
UNI-T	DC Power Supply	UTP8305B	10584	NCR	NCR	/	/
Fluke	Multi Meter	45	7664009	2021/12/14	2022/12/13	BACL	C
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13	CCIC	C

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Note:

A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)

B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)

C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)

D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from A to C.

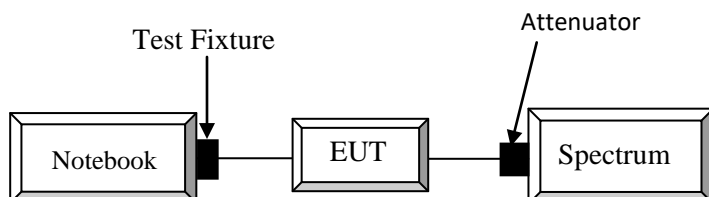
FREQUENCY ERROR

Limit

50 ppm or below

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- Set the application equipment (EUT) to the measurement frequency.
- The modulation state shall be “continuous carrier wave without modulation” mode.

Spectrum Analyzer Conditions

- Center Frequency: Frequency to measure (2484 MHz)
- RBW: 1kHz, VBW: 3kHz
- Span: 300kHz
- Sweep time: Auto
- Log scale: 10dB/Div, Data points: 501points (400 points or more)
- Detection: Positive Peak, Sweep mode: Continuous
- Marker: Spot

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	101.0 kPa

The testing was performed by Glenn.jiang from 2022-10-27

Test Mode: Transmitting (un-modulation)

Test Result: Compliant

Normal Voltage

Center Frequency (MHz)	Measure Frequency (MHz)	Frequency tolerance (ppm)	Limit (ppm)
2484	2484.0003	0.12	< 50

Low Voltage

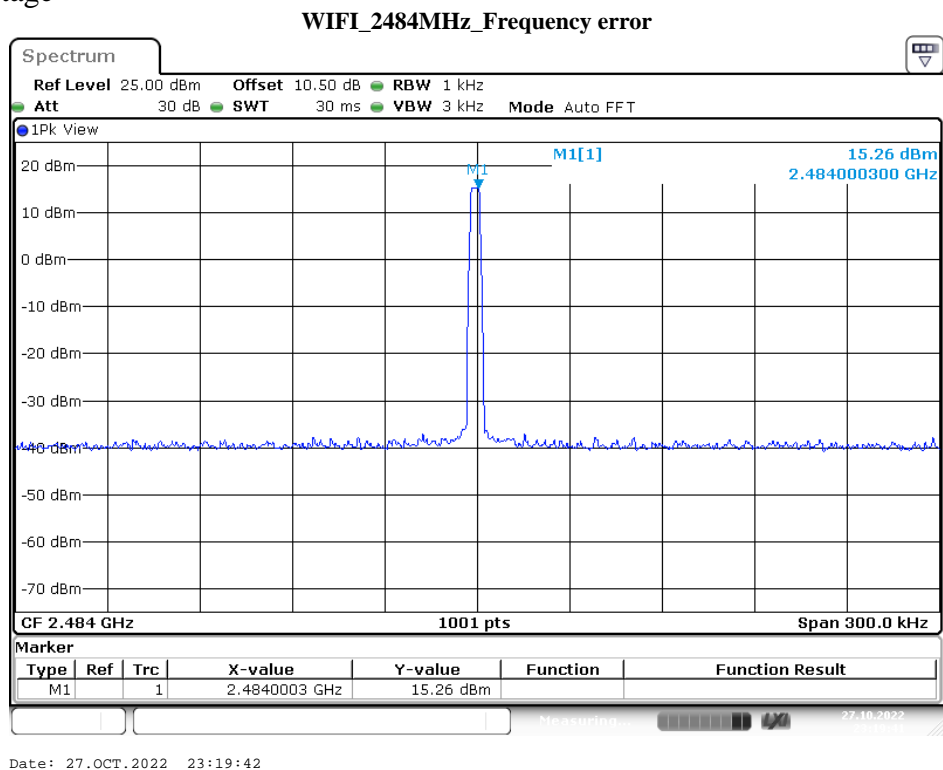
Center Frequency (MHz)	Measure Frequency (MHz)	Frequency tolerance (ppm)	Limit (ppm)
2484	2483.9964	-1.45	< 50

High Voltage

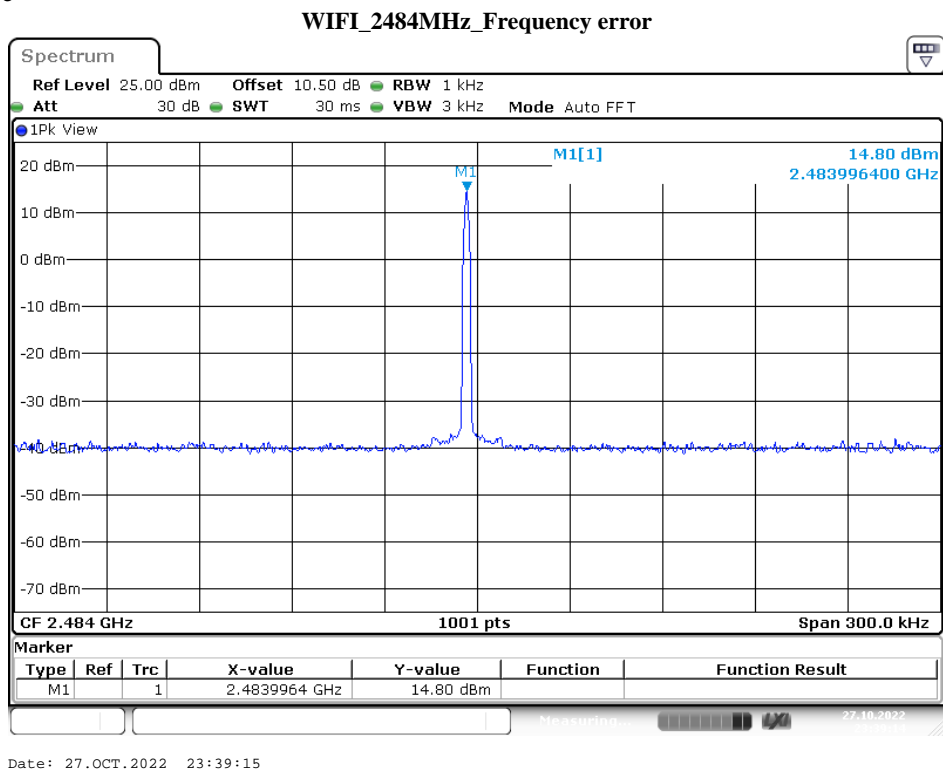
Center Frequency (MHz)	Measure Frequency (MHz)	Frequency tolerance (ppm)	Limit (ppm)
2484	2483.9964	-1.45	< 50

Note: Frequency tolerance = (Measure Frequency-Center Frequency)*10⁶/Center Frequency

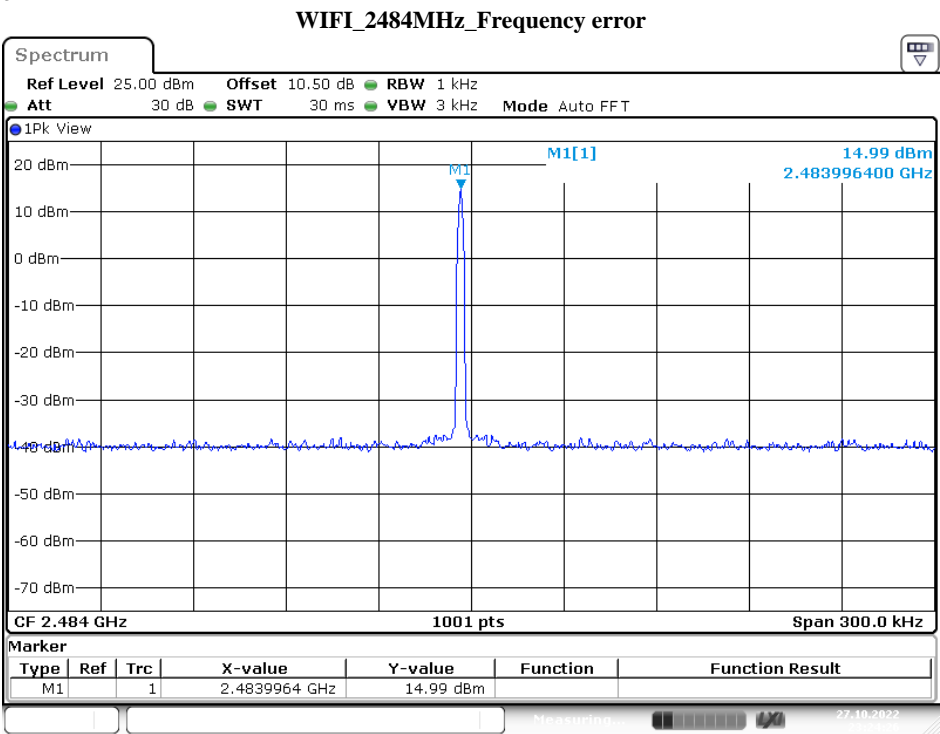
Normal Voltage



Low Voltage



High Voltage



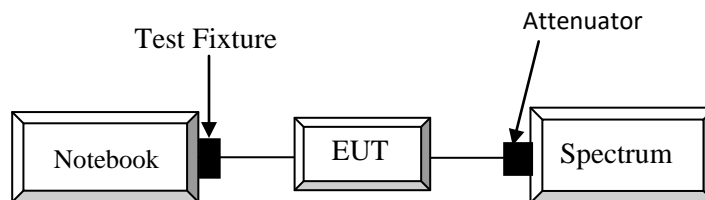
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Occupied bandwidth and spreading bandwidth

Limit

- Occupied bandwidth: FH \leq 83.5 MHz; OFDM \leq 38MHz; DS \leq 26 MHz; Others \leq 26 MHz
- Spread Bandwidth: \geq 500 kHz (FH, DS), Spread factor $>$ 10.

Test Procedure



1. Setting of SA is following as: RB: 300 kHz / VB: 300 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate. The modulation rate: MR=1.375 for 802.11b.

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	101.0 kPa

The testing was performed by Glenn.jiang from 2022-10-25 to 2022-10-28.

Test Mode: Transmitting

Test Result: Compliant

802.11b Mode:

Normal Voltage

Frequency	2484MHz	Limit
Occupied Bandwidth (MHz)	18.102	≤ 26
Spread Bandwidth (MHz)	13.946	≥ 0.5
Spread Factor	10.14	> 10

Low Voltage

Frequency	2484MHz	Limit
Occupied Bandwidth (MHz)	18.142	≤ 26
Spread Bandwidth (MHz)	13.946	≥ 0.5
Spread Factor	10.14	> 10

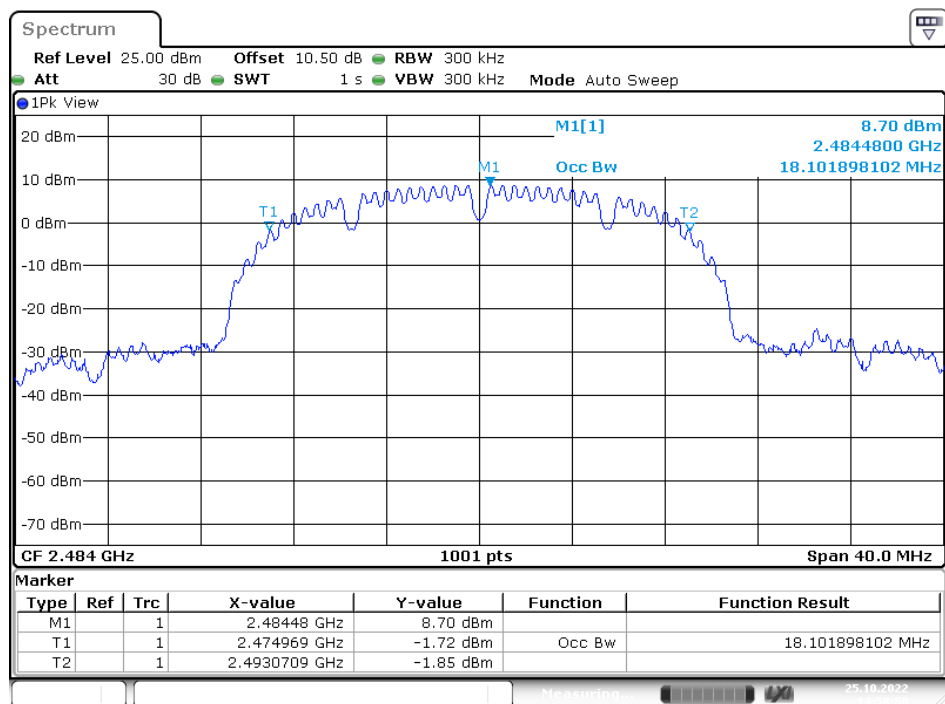
High Voltage

Frequency	2484MHz	Limit
Occupied Bandwidth (MHz)	18.142	≤ 26
Spread Bandwidth (MHz)	13.906	≥ 0.5
Spread Factor	10.11	> 10

Note: Spread factor = Spread bandwidth/Modulation rate
Modulation rate: 802.11b=1.375;

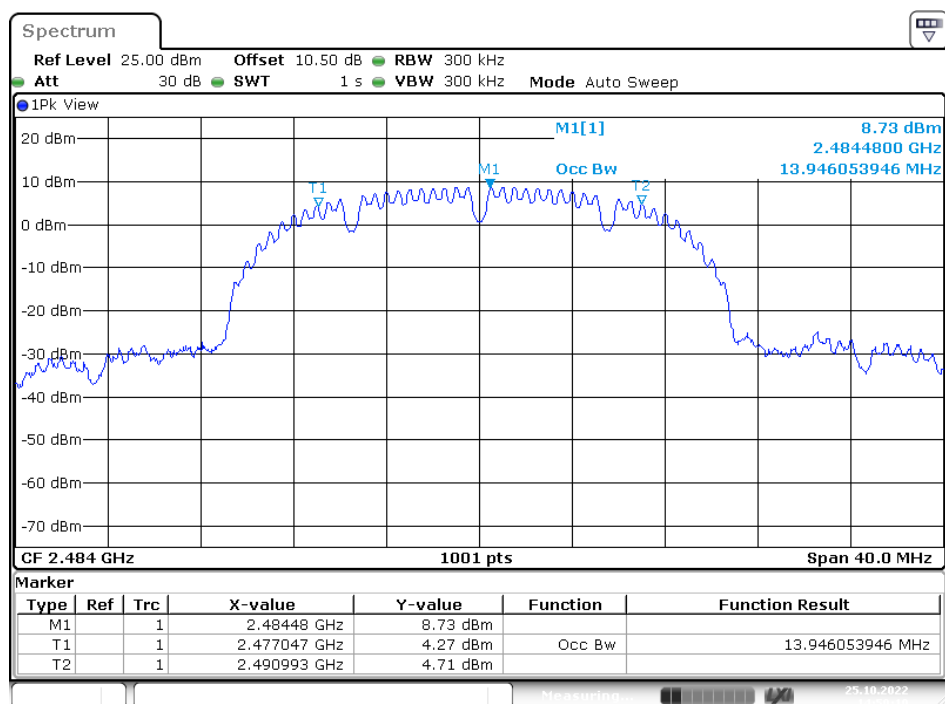
Normal Voltage

11b_Ant1_2484MHz_99%_OBW



Date: 25.OCT.2022 14:58:50

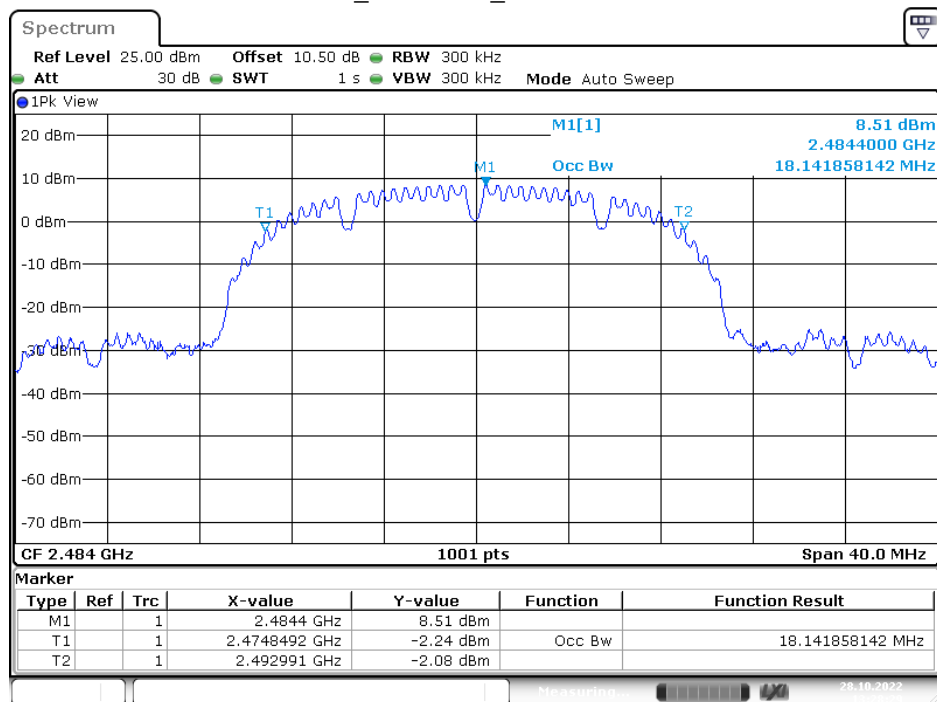
1b_Ant1_2484MHz_90%_SBW



Date: 25.OCT.2022 14:59:20

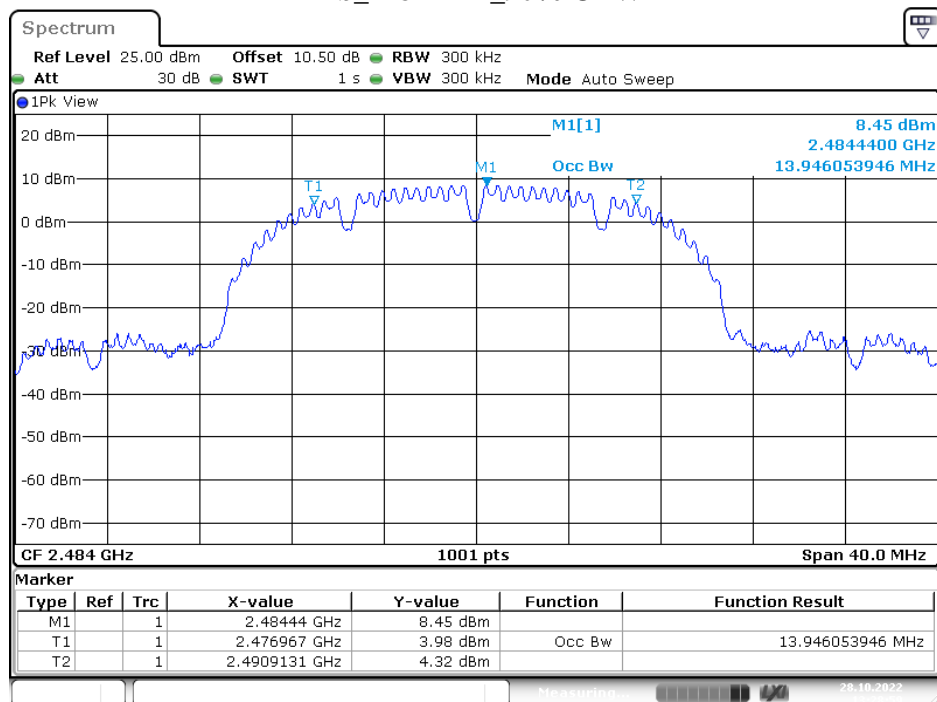
Low Voltage

11b_2484MHz_99% OBW



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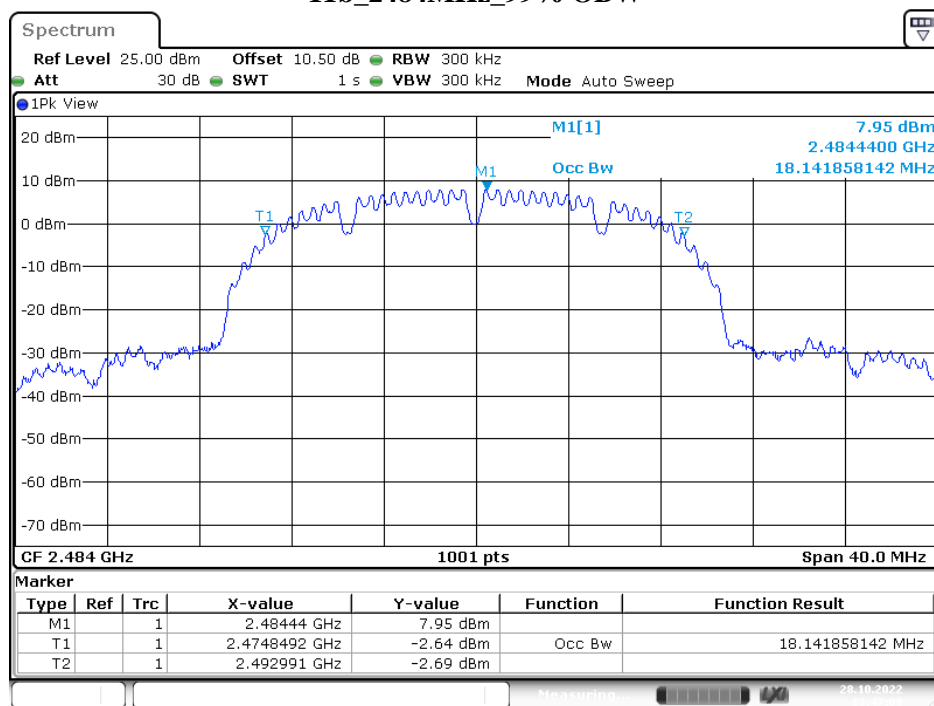
11b_2484MHz_90% OBW



Date: 28.OCT.2022 13:29:00

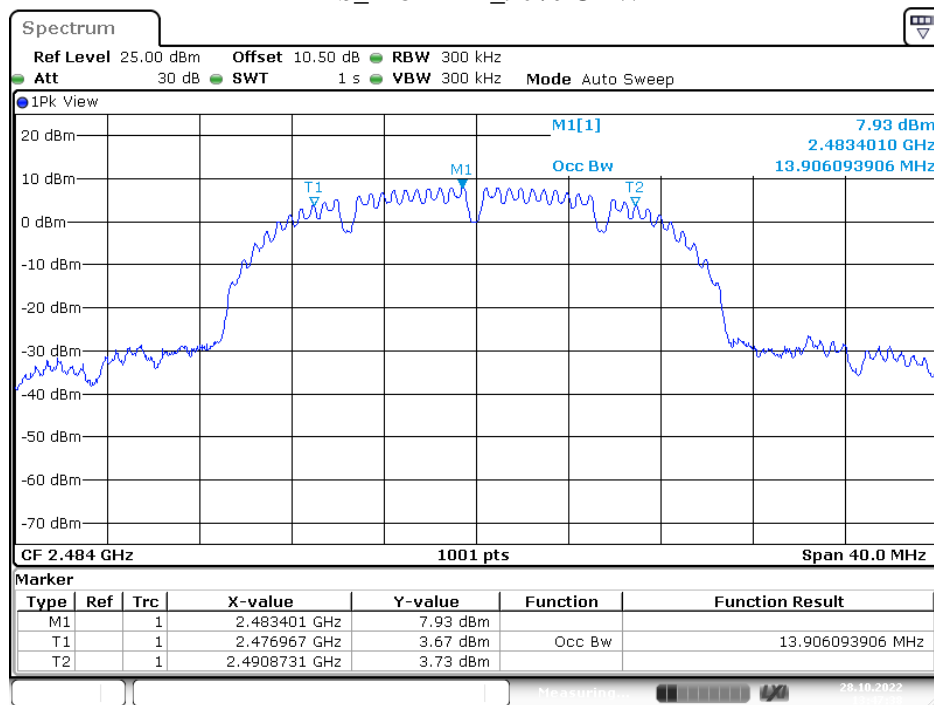
High Voltage

11b_2484MHz_99% OBW



Date: 28.OCT.2022 13:47:10

11b_2484MHz_90% OBW



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Note:

Spread factor=spread bandwidth/modulation rate

Modulation rate: 802.11b=1.375

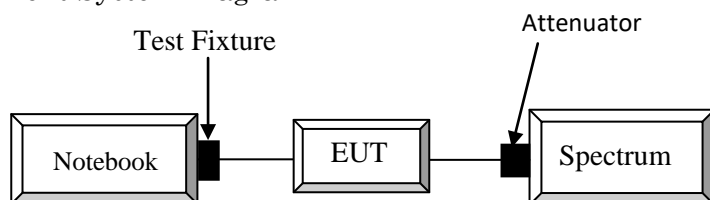
TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

- 30 MHz \leq f \leq 2458 MHz: $\leq 2.5 \mu\text{W}/\text{MHz}$
- 2458 MHz $<$ f \leq 2471 MHz: $\leq 25 \mu\text{W}/\text{MHz}$
- 2497 MHz $<$ f \leq 2510 MHz: $\leq 25 \mu\text{W}/\text{MHz}$
- 2510 MHz $<$ f \leq 12500 MHz: $\leq 2.5 \mu\text{W}/\text{MHz}$

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

Spectrum Analyzer Conditions

- Setting of SA start 30MHz and stop frequency 1000MHz, RB: 100kHz/VB: 100k Hz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value+cable loss shall be less than 0.25 μW .
- Setting of SA start 1000MHz and stop frequency 2458MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value+cable loss shall be less than 2.5 μW .
- Setting of SA start 2458MHz and stop frequency 2471MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value+cable loss shall be less than 25 μW .
- Setting of SA start 2497MHz and stop frequency 2510MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value+cable loss shall be less than 25 μW .
- Setting of SA start 2510MHz and stop frequency 12500MHz, RB: 1MHz/VB: 1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. Reading value+cable loss shall be less than 2.5 μW .

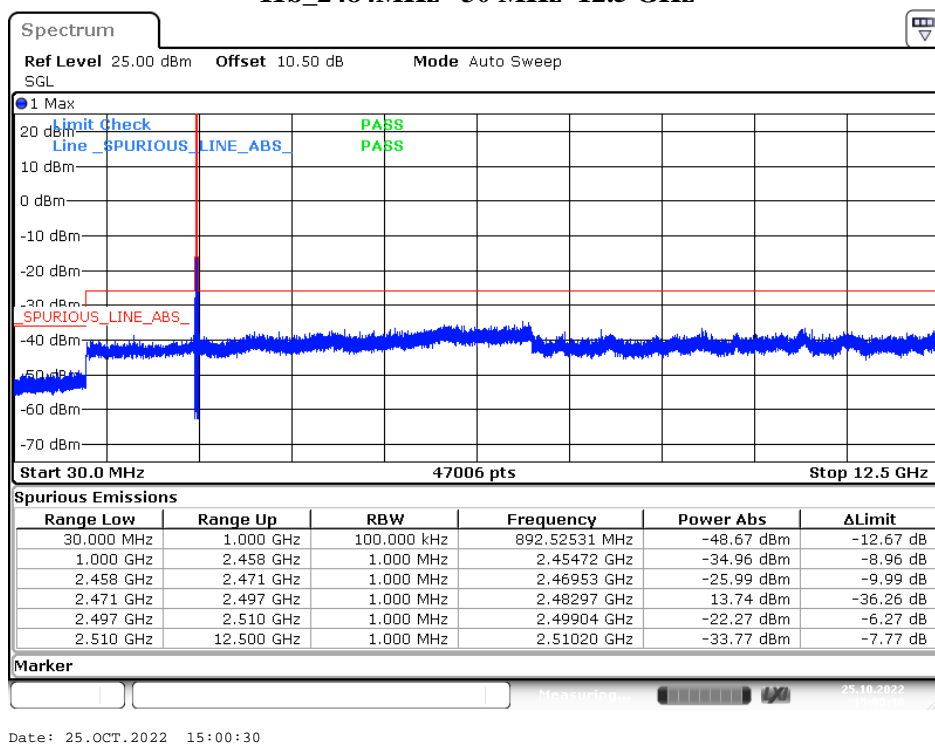
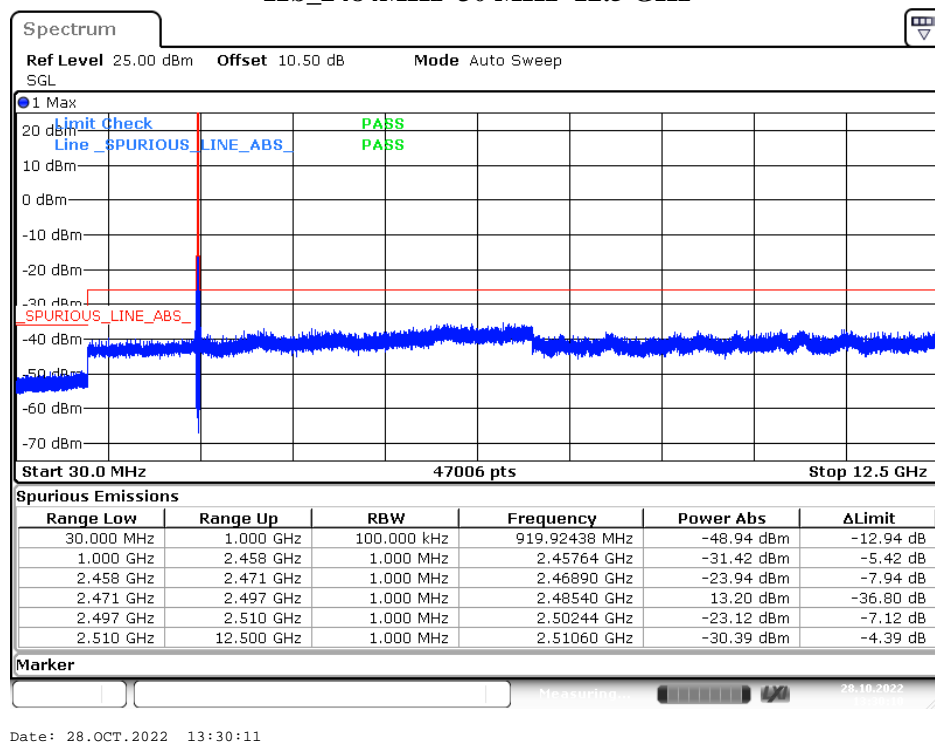
Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	101.0 kPa

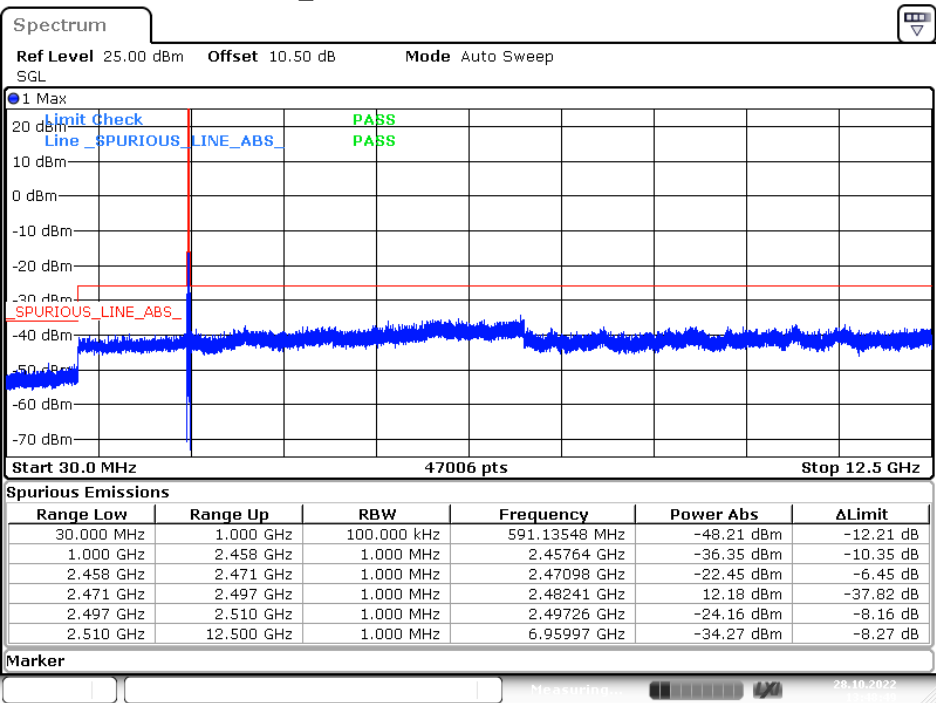
The testing was performed by Glenn.jiang from 2022-10-25 to 2022-10-28.

Test Mode: Transmitting

Normal Voltage**11b_2484MHz 30 MHz~12.5 GHz****Low Voltage****11b_2484MHz 30 MHz~12.5 GHz**

High Voltage

11b_2484MHz 30 MHz~12.5 GHz



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ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE AND TRANSMISSION ANTENNA GAIN

Limit

- $\leq 10 \text{ mW/MHz}$

The Output Power Tolerance must be within +20%, -80%.

E.i.r.p:

- $\leq 12.14 \text{ dBm/MHz}$

Note: E.I.R.P will not be applied to the transmission antenna which has a gain of 2.14 dBi or less.

Test Procedure

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

- Centre Frequency: The centre frequency of the channel under test.
- Resolution BW: 1 MHz.
- Video BW: 1 MHz.
- Span: Wide enough to cover the complete power envelope of the signal of the UUT.
- Detector: Peak.
- Trace Mode: Max Hold.

Step 2:

When the trace is complete, find the peak value of the power envelope and record the frequency.

Step 3:

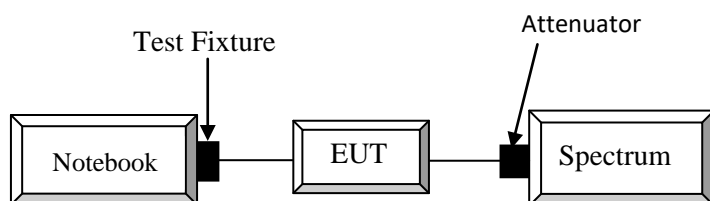
Make the following changes to the settings of the spectrum analyser:

- Centre Frequency: Equal to the frequency recorded in step 2.
- Span: 0 MHz.
- RBW: 1 MHz.
- VBW: 1 MHz.
- Detector: Sample.

Use the analyser's time domain power function measure the mean power across the transmit on period, record the result. This level is recorded as the highest mean power (spectral power density) D in a 1 MHz band.

The maximum e.i.r.p. spectral density is calculated from the above measured power density (D), and the applicable antenna assembly gain "G" in dBi, according to the formula below. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used.

- $PD = D + G;$

Test Setup Block diagram**Test Data****Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	101.0 kPa

The testing was performed by Glenn.jiang from 2022-10-25 to 2022-11-24.

Test Mode: Transmitting

Test Result: Compliant

802.11b (Nominal Output power is 6.0mW/MHz):

Normal Voltage:

For Model: Ai-WB2-12F

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (Total) (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2484	7.44	5.55	≤10	-7.5	-80~ +20	9.9	≤12.14

For Model: Ai-WB2-12S

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (Total) (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2484	8.05	6.38	≤10	6.33	-80~ +20	10.51	≤12.14

Low voltage:

For Model: Ai-WB2-12F

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (Total) (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2484	7.22	5.27	≤10	-12.17	-80~ +20	9.68	≤12.14

For Model: Ai-WB2-12S

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (Total) (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2484	7.32	5.45	≤10	-9.17	-80~ +20	9.78	≤12.14

High voltage:

For Model: Ai-WB2-12F

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (Total) (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2484	7.25	5.31	≤10	-11.50	-80~ +20	9.71	≤12.14

For Model: Ai-WB2-12S

Mode	Channel	Conducted power (dBm/MHz)	Antenna output power (Total) (mW/MHz)		Antenna output tolerance (%)		EIRP(Total) (dBm/MHz)	
		Ant1	Result	Limit	Result	Limit	Result	Limit
11b	2484	7.33	5.41	≤10	-9.83	-80~ +20	9.79	≤12.14

Note1: Antenna output power tolerance(%) = (Antenna output power - declared power)/declared power*100

Note2: EIRP(dBm/MHz) =Conducted power + Antenna gain

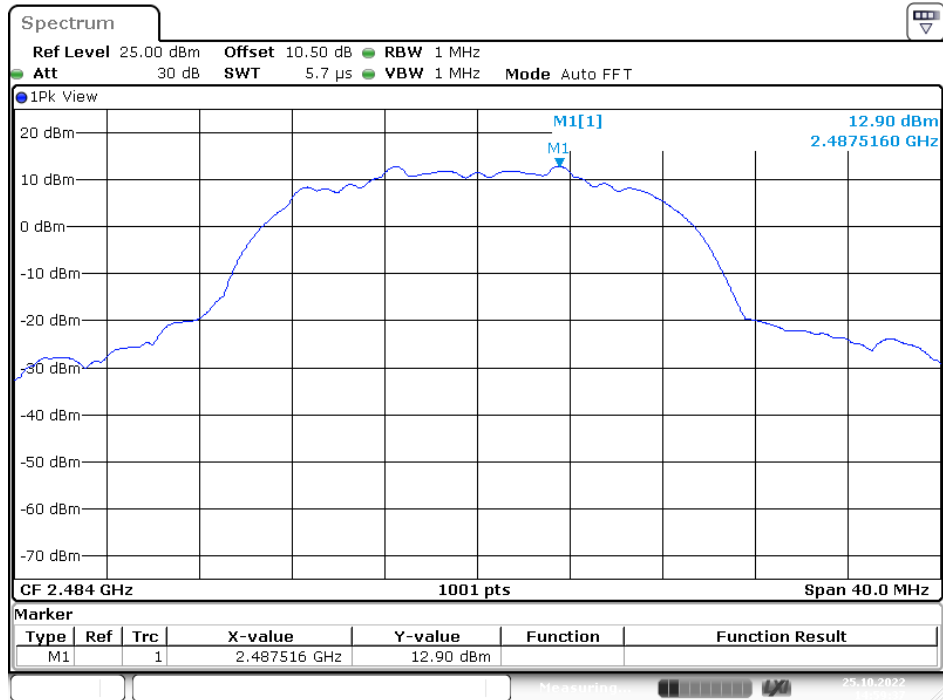
Note3: The antenna gain is 2.46 dBi, the antenna gain was used to calculate the EIRP.

Output Power:

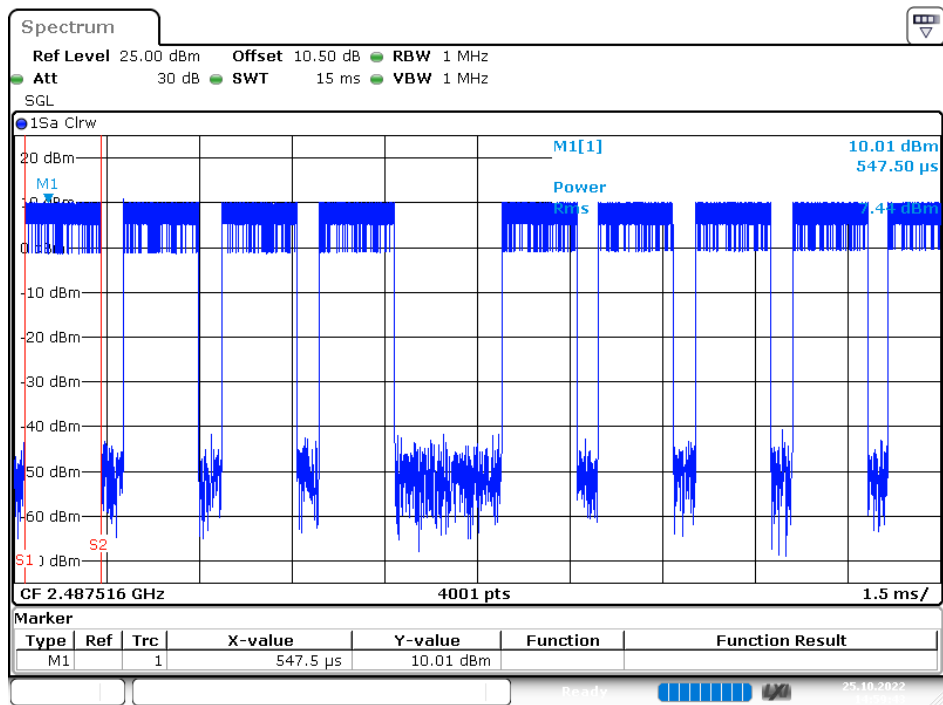
Normal Voltage

For Model: Ai-WB2-12F

11b_2484MHz



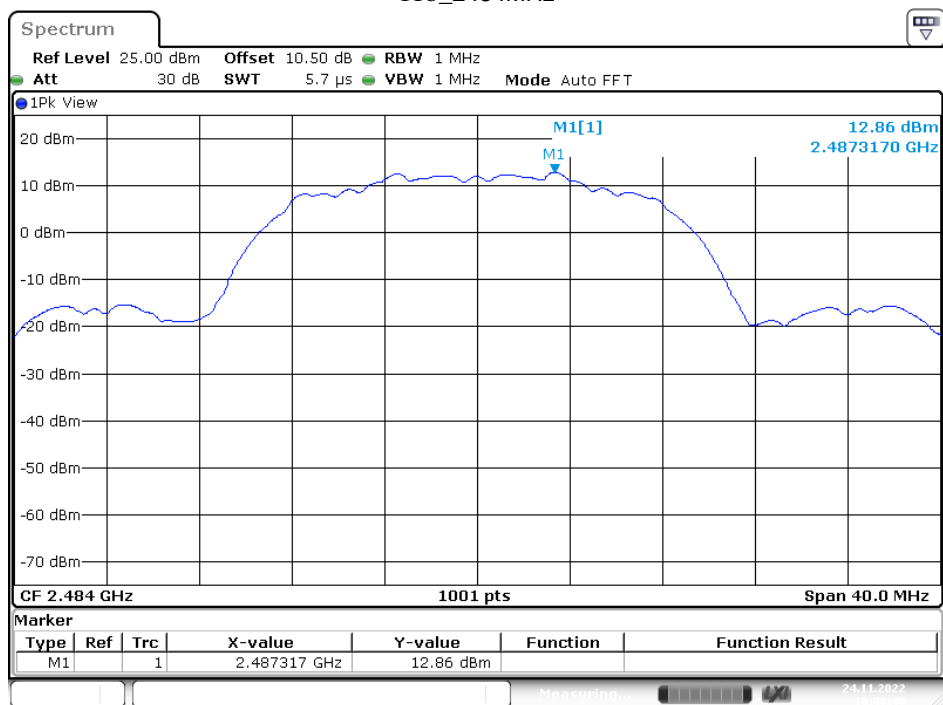
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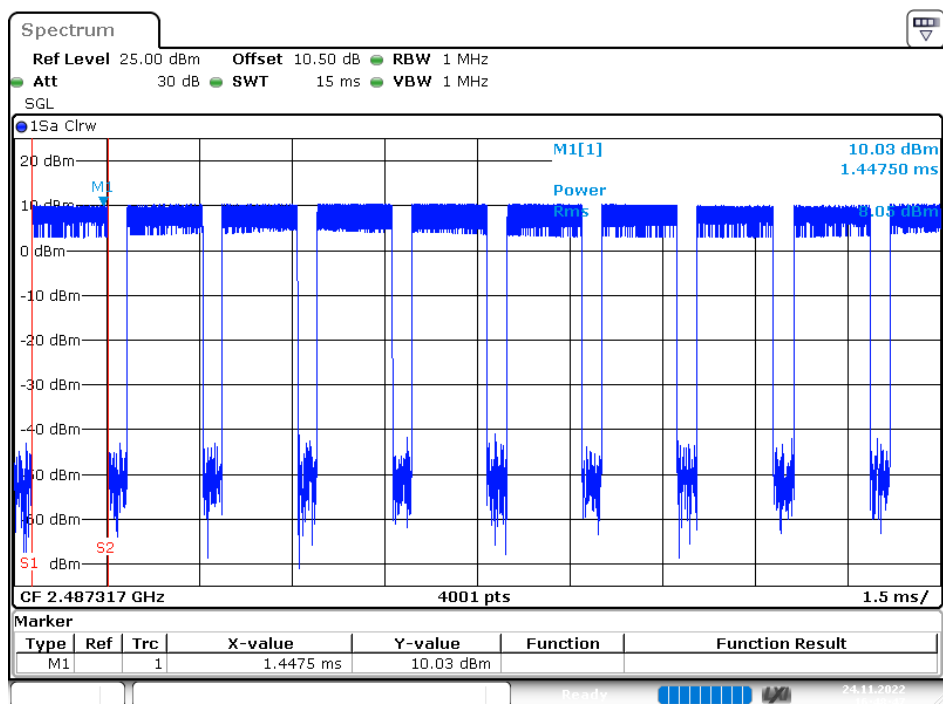
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For Model: Ai-WB2-12S

11b_2484MHz



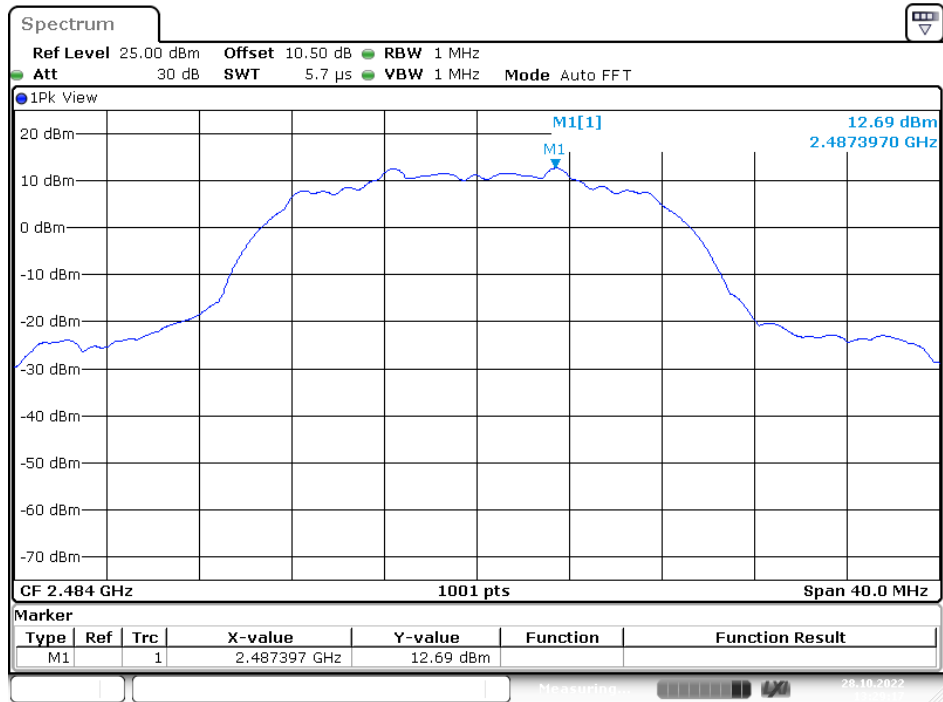
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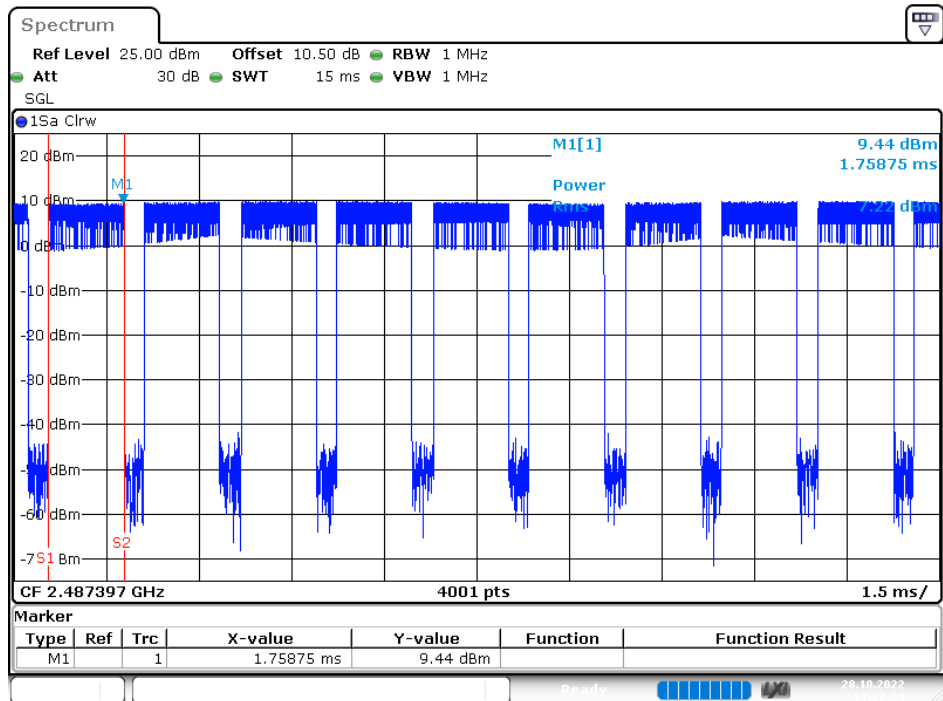
Date: 24.NOV.2022 16:48:47

Low voltage:
For Model: Ai-WB2-12F

11b_2484MHz



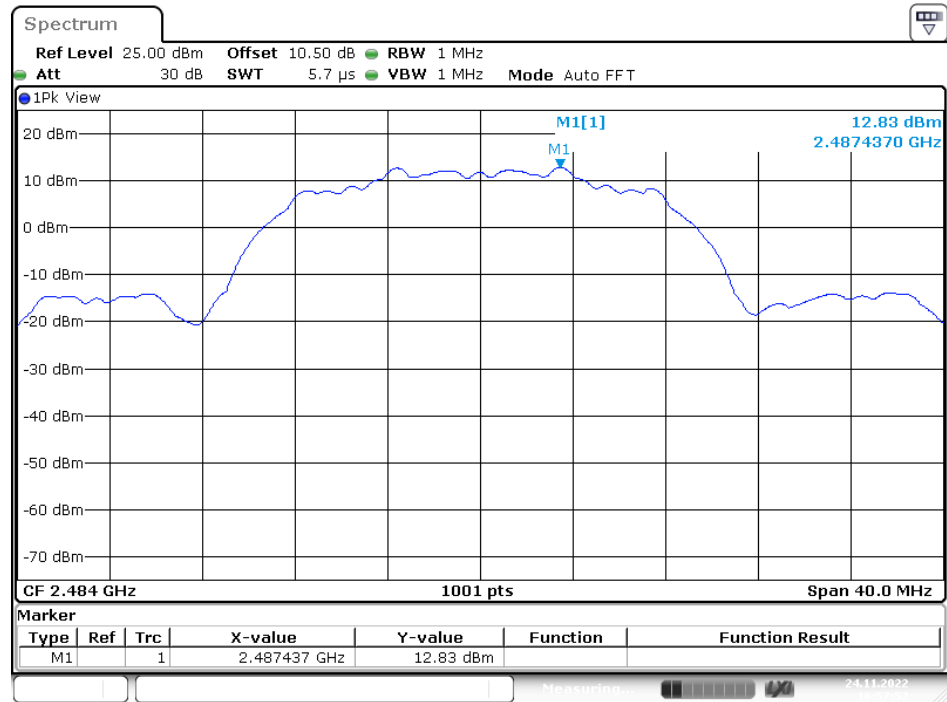
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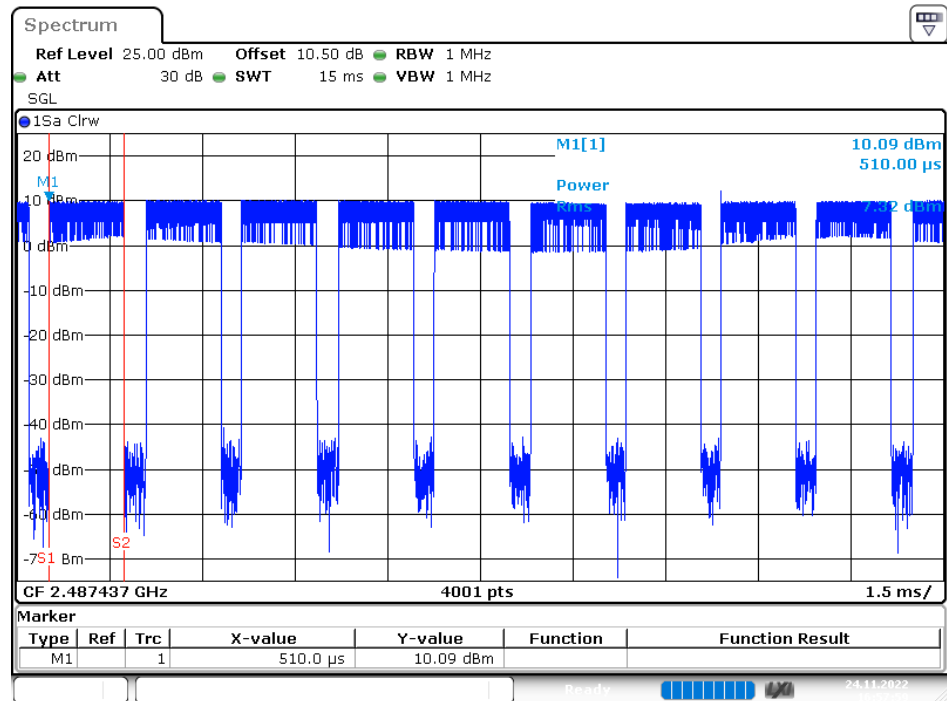
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For Model: Ai-WB2-12S

11b_2484MHz



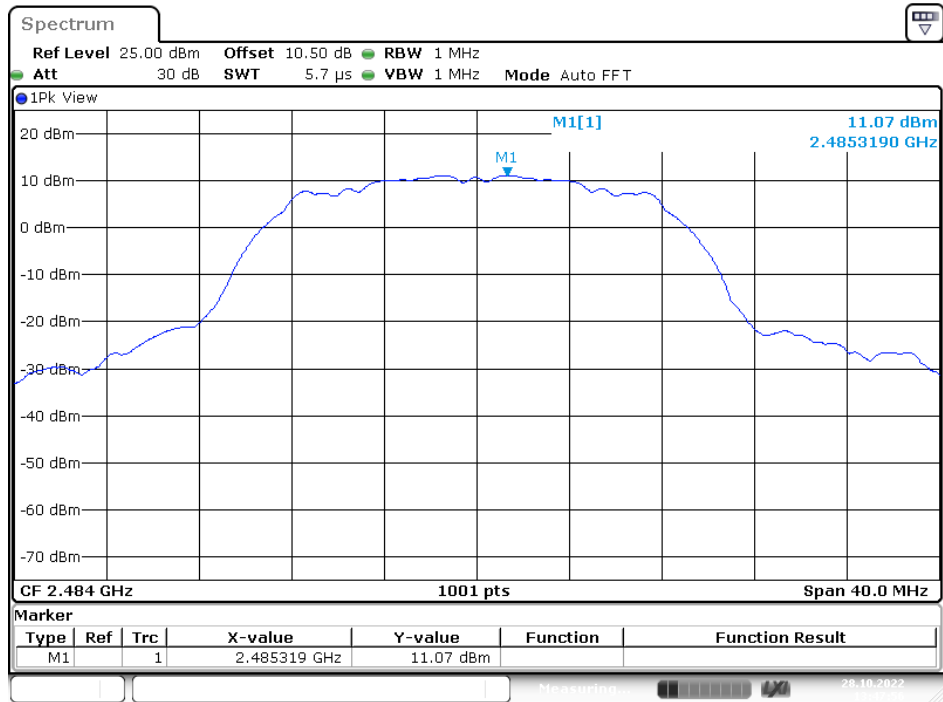
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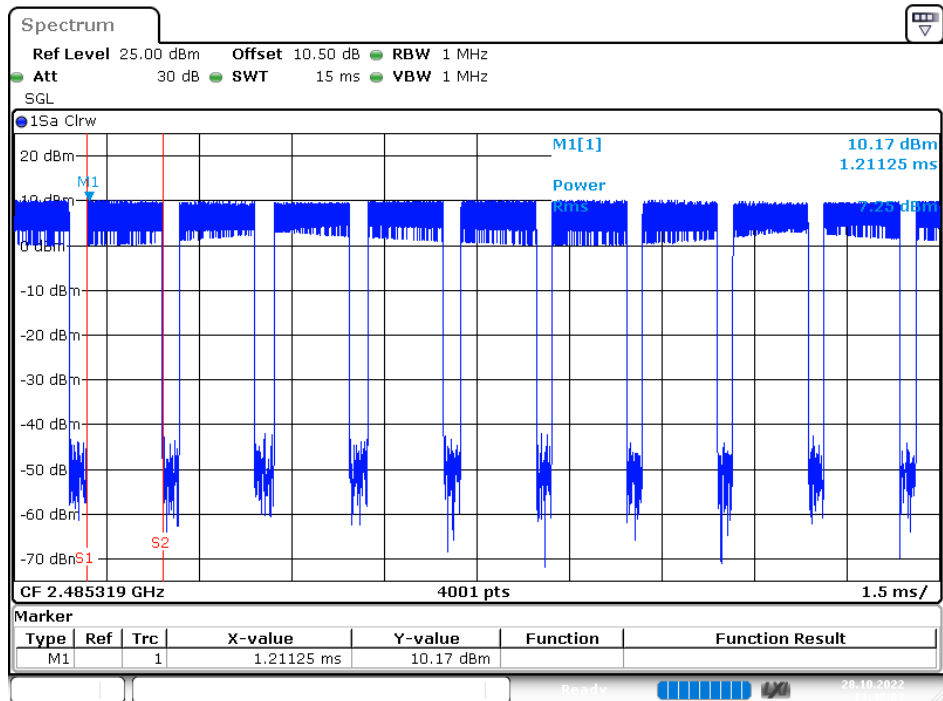
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High Voltage For Model: Ai-WB2-12F

11b_2484MHz



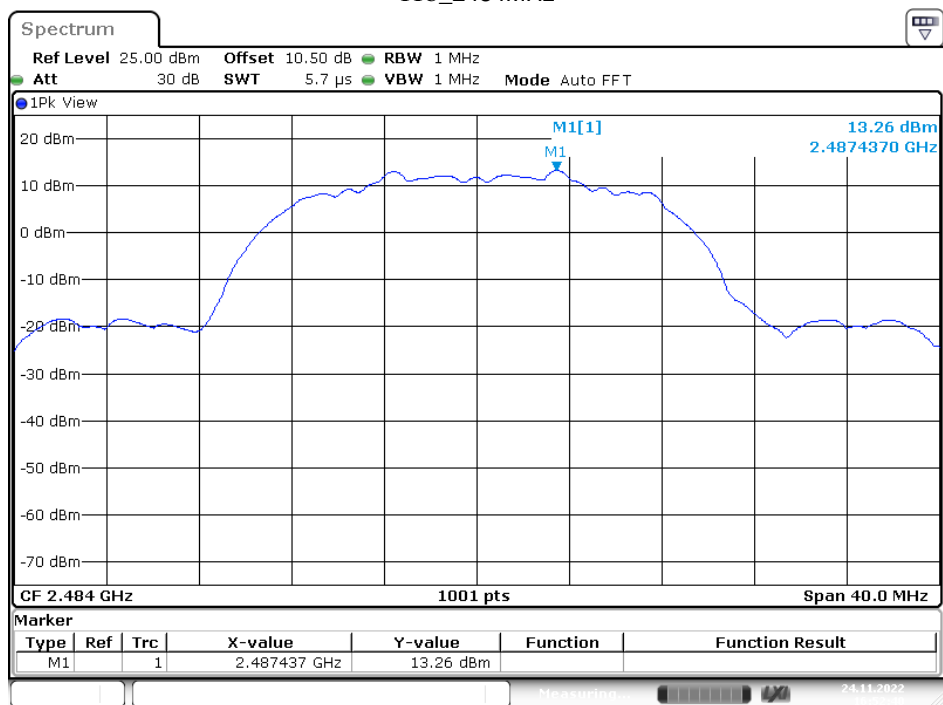
Date: 28.OCT.2022 13:47:56



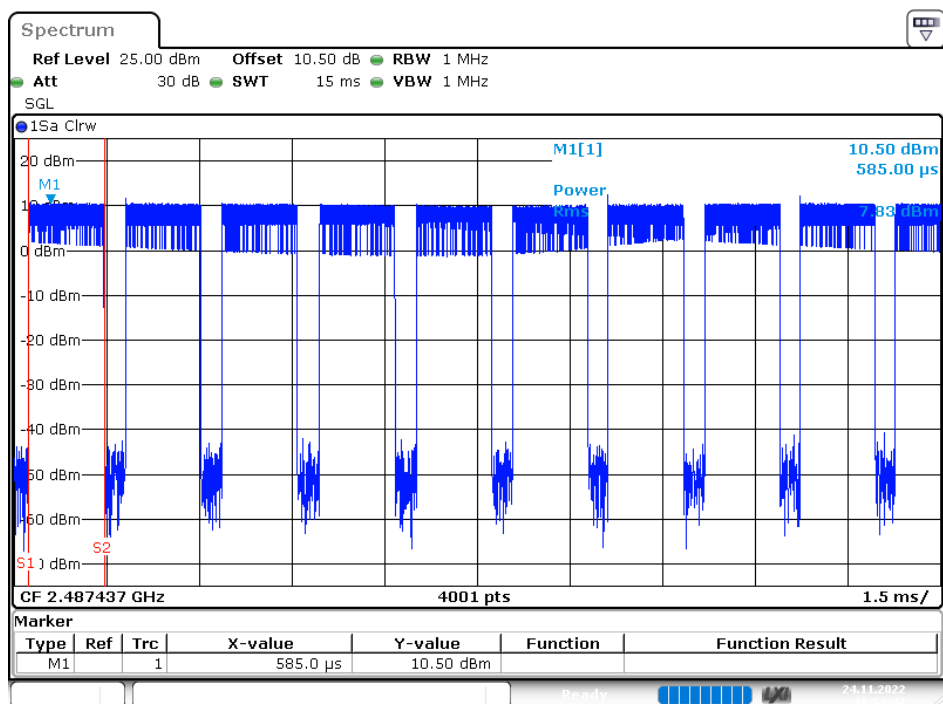
Date: 28.OCT.2022 13:48:03

For Model: Ai-WB2-12S

11b_2484MHz



Date: 24.NOV.2022 16:52:40



Date: 24.NOV.2022 16:52:47

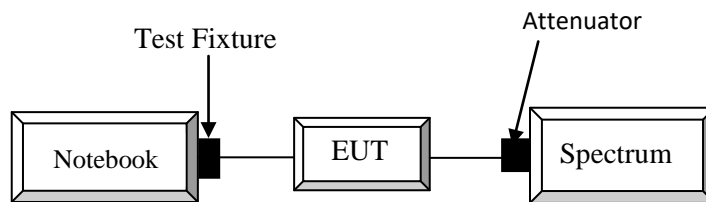
RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

Limit

- $\leq 4 \text{ nW}$ ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)
- $\leq 20 \text{ nW}$ ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

Test Procedure

Measurement System Diagram



Conditions of Application Equipment (EUT)

- The modulation state shall be “continuous receiving mode”.

Spectrum Analyzer Conditions

- Start Frequency: Start Frequency of frequency range to measure (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (Measurement Range)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: Positive Peak
- Reference Level: Enough level for maximum dynamic range

Measurement Result

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50%
ATM Pressure:	101.0 kPa

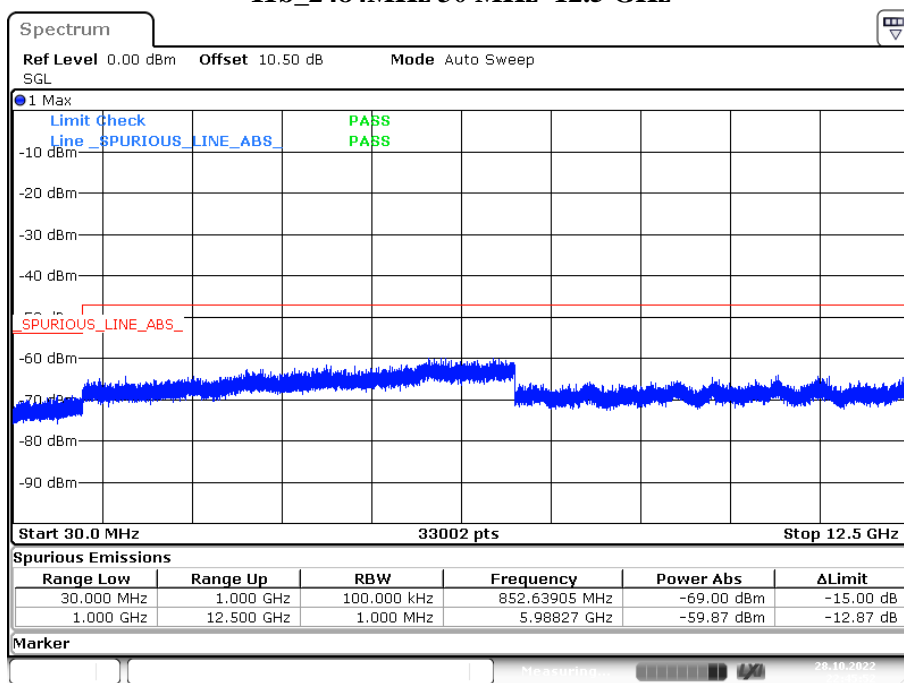
The testing was performed by Glenn.jiang on 2022-10-28.

Test Mode: Receiving

Test Result: Compliant, please see the below plots.

Normal voltage

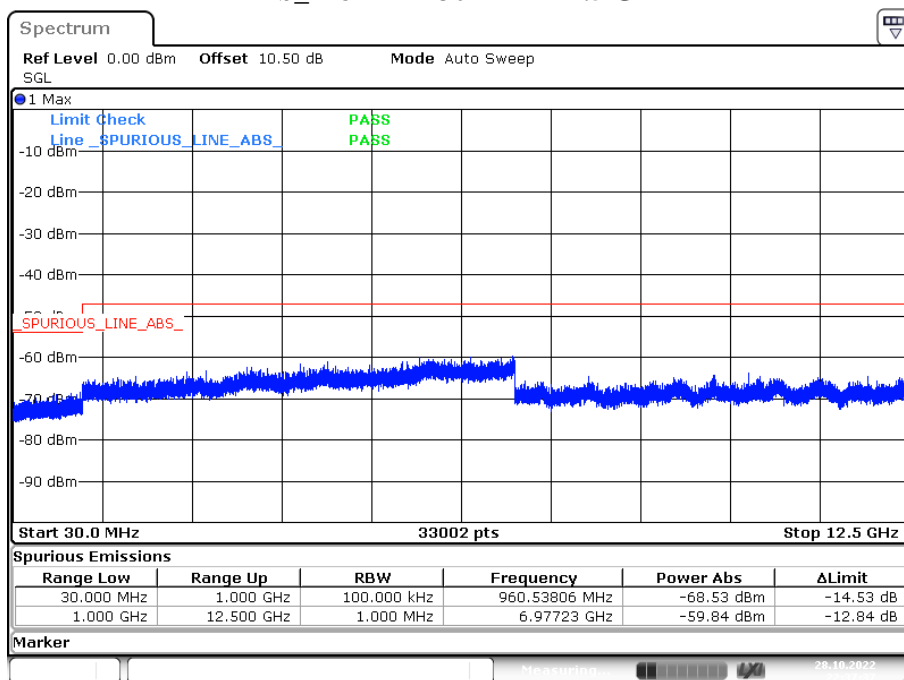
11b_2484MHz 30 MHz~12.5 GHz



Date: 28.OCT.2022 22:45:52

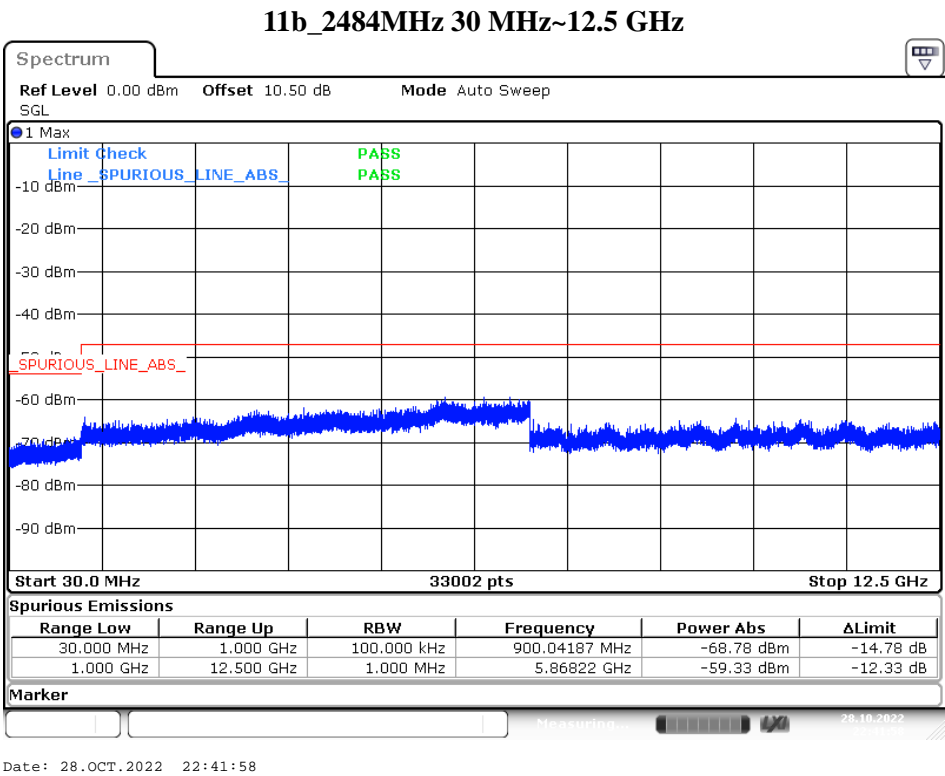
Low Voltage

11b_2484MHz 30 MHz~12.5 GHz



Date: 28.OCT.2022 22:37:37

High Voltage



INTERFERENCE PREVENTION FUNCTION

Requirement

The EUT shall have the interference prevention capability to transmit or to receive the identification automatically, so that sender and receiver shall exclude other equipment.

Test Procedure

In the case that the EUT has the function of automatically transmitting the identification code:

1. Transmit the predetermined identification codes from EUT
2. Check the transmitted identification codes with the demodulator.

In the case of receiving the identification codes:

1. Transmit the predetermined identification codes from the counterpart.
2. Check if communication is normal
3. Transmit the signal other than predetermined ID codes from the counterpart.
4. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Measurement Result

Environmental Conditions

Temperature:	24 °C
Relative Humidity:	49 %
ATM Pressure:	101.0 kPa

The testing was performed by Glenn Jiang on 2022-10-25.

Test Result: Compliance

CONSTRUCTION PROTECTION CONFIRMATION

Limit

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

Confirmation Method

The EUT has shielding cover for the high-frequency section and modulation section of the radio which can't be opened easily, please see the EUT photos.

****END OF REPORT****