

RF Test Report

Applicant : Fortinet, Inc.

Product Name : Network Security Gateway

Trade Name : FORTINET

Model Number : FG-801F, FG-800F, FG-800F-DC, FG-801F-DC

Applicable Standard : Notification No.88 of MIC, 2004, Annex 43
2.4 GHz band wide-band low-power data communication system
(Item 19 of Article 2 Paragraph 1)

Received Date : Sep. 08, 2022

Test Period : Sep. 26 ~ Sep. 28, 2022

Issued Date : Nov. 02, 2022

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C)
Tel : +886-3-2710188 / Fax : +886-3-2710190

Note:

- 1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
- 2.This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
- 3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Version	Issued Date	Revisions	Revised By
00	Nov. 02, 2022	Initial Issue	Snow Wang

Verification of Compliance

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(Item 19 of Article 2 Paragraph 1)

Test Result : Complied

Performed Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
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The above equipment has been tested by Eurofins E&E Wireless Taiwan Co., Ltd., and found compliance with the requirements set forth in the 2.4 GHz band wide-band low-power data communication system (Item 19 of Article 2 Paragraph 1) and technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By

: Kai Yu Yang

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1 General Information

1.1. EUT Description

Applicant	Fortinet, Inc. 899 Kifer Road, Sunnyvale, CA 94086, USA		
Product Name	Network Security Gateway		
Trade Name	FORTINET		
Model Number	FG-801F, FG-800F, FG-800F-DC, FG-801F-DC		
Difference description of model number	Regarding the differences, please see the table below.		
	Model	PSU	SSD
	FG-801F	AC	V
	FG-800F	AC	
	FG-800F-DC	DC	
	FG-801F-DC	DC	V
Hardware Version	P27702		
Software Version	BLE PTM 1.0.0		
Antenna Information	ANT-0 Trade Name: WIESON Model Number: ARY196-0346-005-00 Antenna Type: PIFA Antenna Max. Gain: 1.82 dBi		
	ANT-0 Trade Name: INPAQ Model Number: WA-F-LA-02-114 Antenna Type: PIFA Antenna Max. Gain: 0.73 dBi		
Radio Equipment	2.4 GHz Band Wide-Band Low-Power Data Communication System		
Classification of Specified Radio Equipment	Article 2 Clause 1 Item 19		
Frequency Band	Bluetooth LE : 1 Mbps Bluetooth 2LE : 2 Mbps Bluetooth BLR C2 : 125 kbps Bluetooth BLR C8 : 500 kbps		
Frequency Range	2402-2480 MHz		
Channel Number	40		
Channel Separated	2 MHz		
Modulation Type	GFSK		
Type of Emissions	F1D		

Declared Rated Power	Bluetooth LE	1.690 mW	2.280 dBm
	Bluetooth 2LE	1.702 mW	2.310 dBm
	Bluetooth BLR C2	1.694 mW	2.290 dBm
	Bluetooth BLR C8	1.698 mW	2.299 dBm
E.I.R.P.	Bluetooth LE	4.100 dBm	
	Bluetooth 2LE	4.130 dBm	
	Bluetooth BLR C2	4.110 dBm	
	Bluetooth BLR C8	4.119 dBm	
Tested Circuit Insertion Loss	1.5 dB		
Operate Temp. Range	0 ~ +40 °C		
EUT Power Rating	DC: 48 VDC to 60 VDC, 7 A AC: 100-240 VAC, 50/60 Hz, 6 A Max		

1.2. Testing Location

Site Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ☐ No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

Site Address: ☒ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Summary of Test Result

Item	Result	Remark
Frequency Error	PASS	-----
Occupied Bandwidth	PASS	-----
Antenna Power (Conducted)	PASS	-----
Unwanted Emission Strength	PASS	-----
Secondarily Emitted Radio Wave Strength	PASS	-----
Radio Interference Prevention Capability Measurement	PASS	-----

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

2 Test Methodology

2.1. Mode of Operation

Test Category

2.4 GHz Band Wideband Low-Power Data Communication System

Test Mode
BLE 1M
BLE 2M
BLR C2
BLR C8

Final-Test Mode
BLE 2M
BLR C8

Comprehensive operation test

The normal voltage settings are respectively adopted during the test. Because the voltage error are less than 1 %.

Constant voltage check

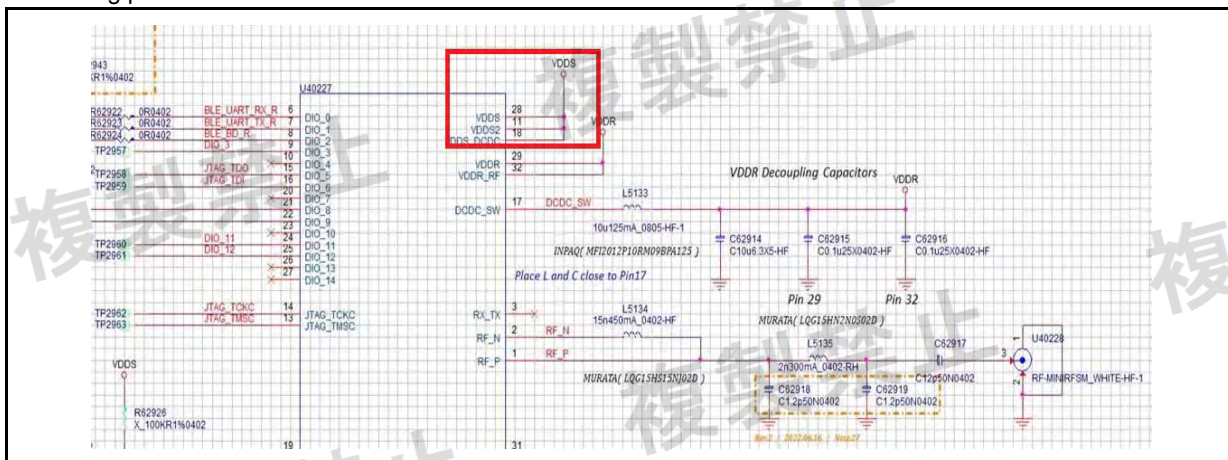
AC

EUT and Module Power tables				
EUT Setup Value (Vac)		Normal	Hight(+10 %)	Low(-10 %)
		100	110	90
Module Vdd Power Measurement Value (Vdc)		Normal	Hight(+10 %)	Low(-10 %)
		3.325	3.33	3.328
Voltage error (%)	Result	Ref. level	0.03	0.03
	Limit	---	± 1	
Judgment		---	PASS	PASS

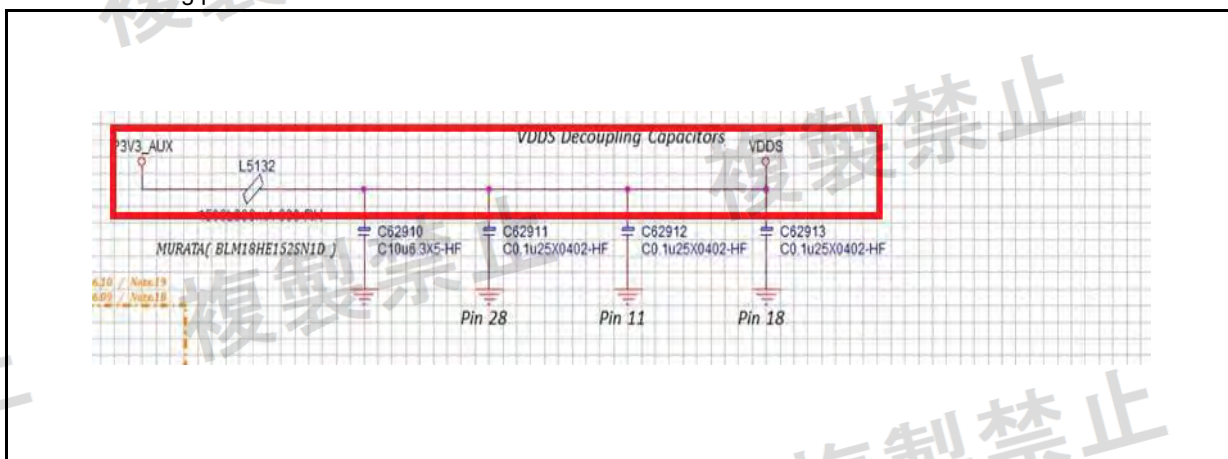
DC

EUT and Module Power tables				
EUT Setup Value (Vdc)		Normal	Hight(+10 %)	Low(-10 %)
		60	66	54
Module Vdd Power Measurement Value (Vdc)		Normal	Hight(+10 %)	Low(-10 %)
		3.326	3.33	3.327
Voltage error (%)	Result	Ref. level	0.03	0.03
	Limit	---	± 1	
Judgment		---	PASS	PASS

Measuring point



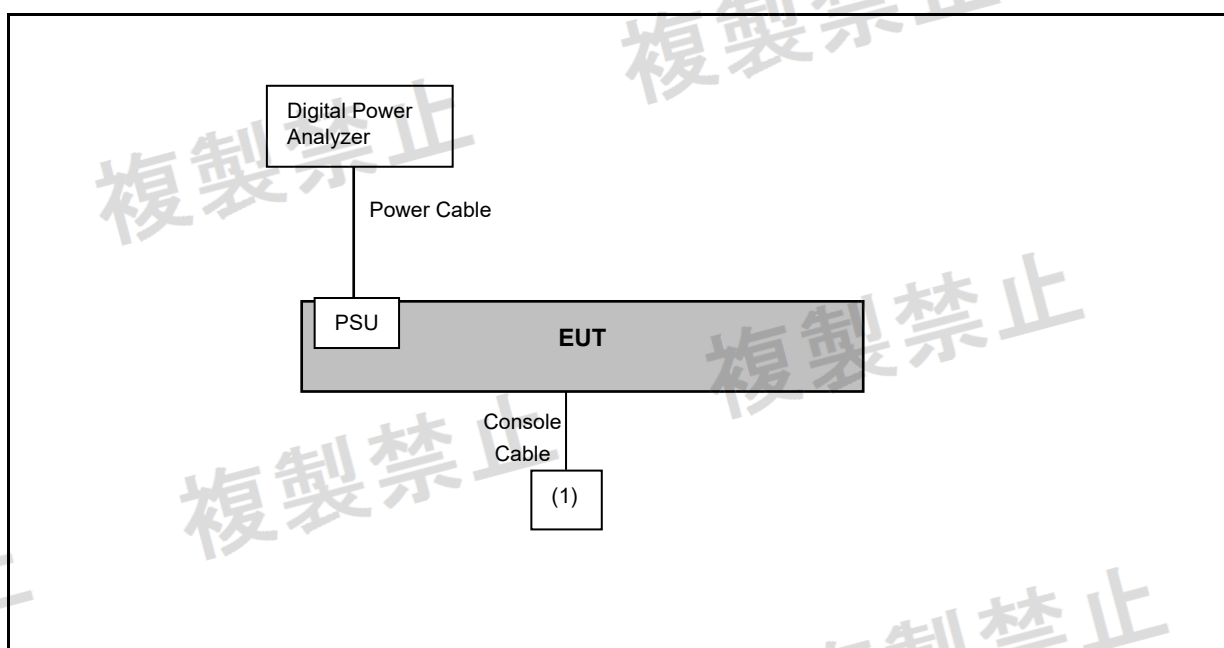
Actual Measuring point



2.2. EUT Test Step

1.	Setup the EUT shown on "Configuration of Test System Details".
2.	Turn on Bluetooth function.
3.	EUT run test program.

2.3. Configuration of Test System Details



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	Lenovo	L14	---	---

2.4. Test Instruments

Test Period: Sep. 26 ~ Sep. 28, 2022

Testing Engineer: An Wu

Use	Equipment	Manufacturer	Model Number	Serial Number	Calibration Authority	Cal. Date	Cal. Period	Cal. Method
<input checked="" type="checkbox"/>	Spectrum Analyzer (10 Hz~44 GHz)	R&S	FSV3044	101255	R&S	Dec. 20, 2021	1 year	(C)
<input checked="" type="checkbox"/>	True RMS Multimeter	FLUKE	87V	15530240	ETC	Jun. 15, 2022	1 year	(C)
<input checked="" type="checkbox"/>	Digital Power Analyzer	IDRC	CP-268	268710	OCL	Nov. 23, 2021	1 year	(C)
<input checked="" type="checkbox"/>	Switch Box	R&S	OSP-B157W8	100850	R&S	Dec. 20, 2021	1 year	(C)

Remark :

- (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") 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 NICT or a designated calibration 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

2.5. Uncertainty of Measured Value

Test Item	Uncertainty
Frequency Error	1.3×10^{-7}
Occupied Bandwidth	4.5%
Spread Bandwidth	4.5%
Antenna Power Error	1.1 dB
Unwanted Emission Strength	1.1 dB
Secondarily Emitted Radio Wave Strength	1.1 dB

2.6. Test Site Environment

Items	Test Item	Required	Actual
Temperature (°C)	Conducted	5-35	20-30
Humidity (%RH)		45-85	45-75

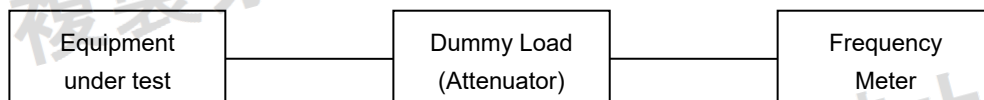
3 Measurement Procedure

3.1. Frequency Error Measurement

■ Limit

Frequency Tolerances ≤ 50 ppm.

■ Test Setup



■ Measuring Equipment Conditions

- (1) Use a frequency counter that has sensitivity of -20 dBm or better or a spectrum analyzer that has synthesized local oscillator.
- (2) Accuracy of the frequency counter shall be one tenth of the tolerance specified for EUT or less (e.g. 5×10^{-6} or less)
- (3) Attenuation of the attenuator shall be adjusted to give the optimum operation input level to the frequency meter in order to avoid the effect from the amplitude fluctuation of measurement wave.
- (4) When measuring burst waves, use the pulse measuring function of the counter and set the gate open time to a value that enables the measurement through entire period of burst as long as possible.

■ Conditions of Equipment under Test

- (1) Set the EUT to the test frequency and transmit RF signal.
- (2) The modulation state is "continuous wave without modulation" by stopping spread spectrum in principle. But, if it is not possible, it shall be "continuous burst wave without modulation".

■ Measuring Operation Procedures

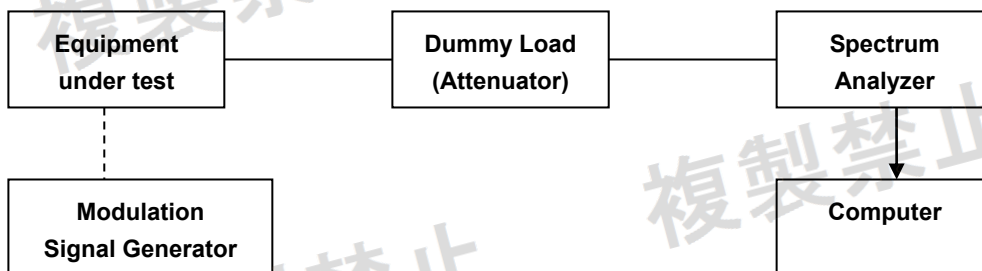
In case of burst waves, the measurement shall be done for enough time (e.g. covering 20 or more of burst waves) in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.

3.2. Occupied Bandwidth Measurement

■ Limit

Max. Occupied Bandwidth: 26 MHz.

■ Test Setup



■ Measuring Equipment Conditions

Spectrum Analyzer Setting

SPAN : 200 MHz

RBW : 300 kHz

VBW : 300 kHz

Sweep Time : AUTO (Minimum time to ensure measurement accuracy.)

Data Points : 401 points or more

Indication mode : Max hold

Detection Mode : Positive Peak

Storage Mode : Normal

Y-axis Scale : 10 dB/Div.

Reference Level : Enough level for maximum dynamic range

■ Conditions of Equipment under Test

Set to testing frequency and modulate using standard encoding test signals.

■ Measuring Operation Procedures

- (1) Configure the setting of the spectrum analyzer to 3.3(1).
- (2) After repeating sweeps until no display changes are found, import the values of all the data points as array variables of the computer.
- (3) Convert the dB value into the antilog of the power dimension (i.e. mW) for all the data.
- (4) Find the total power of the all the data and record as "Total Power" in mW.
- (5) Add power to the minimum frequency data in order and find the value of the limiting data point that is 0.5 % of the "Total Power". Convert the limiting point into a frequency and record as the "lower limit" frequency.
- (6) Add power to the maximum frequency data in order and find the value of the limiting data point that is 0.5 % of the "Total Power". Convert the limiting point into a frequency and record as the "upper limit" frequency.

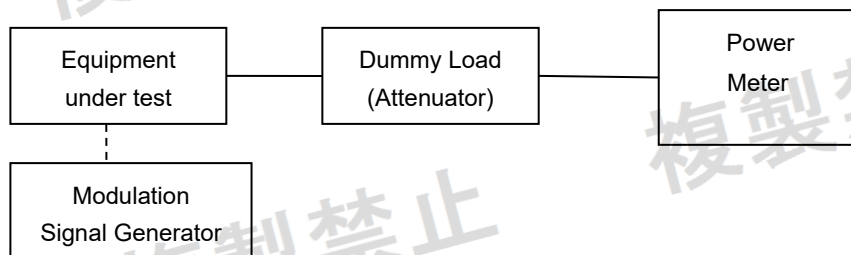
3.3. Antenna Power (Conducted) Measurement

■ Limit

RF Output Power ≤ 10 mW.

RF Output Power Tolerance $\leq -80\% \sim +20\%$.

■ Test Setup



■ Measuring Equipment Conditions

a. Use power meter to measure burst power.

■ Conditions of Equipment under Test

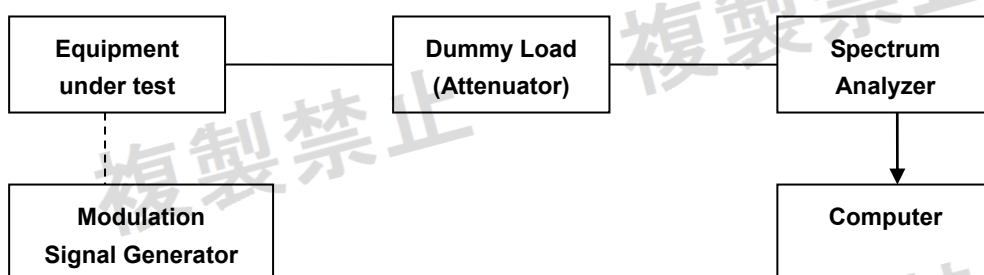
a. Connect the high frequency power meter to the output of the attenuator and measure the total power (without bandwidth limitation)

3.4. Unwanted Emission Strength Measurement

■ Limit

Frequency (MHz)	Limit (μW/MHz)
Under 2387 MHz	≤ 2.5
2387-2400 MHz	≤ 25
2483.5-2496.5 MHz	≤ 25
2496.5 - 12.5 GHz	≤ 2.5

■ Test Setup



Note 1: The computer is used for calculating the mean value of amplitude levels.

■ Measuring Equipment Conditions

(1) The setting of the spectrum analyzer during spurious searches are as follow:

Sweep Bandwidth:	Starts spurious searches from the smallest possible frequencies to more then 5 times the carrier frequencies..
Resolution bandwidth:	1 MHz
Video bandwidth:	1 MHz
Y-axis scale:	10 dB/Div.
Input level:	Maximum dynamic range value
Sweep time:	Minimum amount of time to ensure measurement accuracy.
Sweep mode:	Continuous mode
Data Points:	Over 400 points
Detection mode:	Positive peak
Display mode:	Maximum hold

(2) The setting of spectrum analyzer while conducting spurious amplitude measurement are as follows:

Center Frequency:	Acquired spurious frequency in (1)
Frequency sweep width:	0 MHz
Resolution bandwidth:	1 MHz
Video bandwidth:	Same as Resolution bandwidth
	Note: take into account that the requirement limits the power in a bandwidth of 1 MHz. If the measurement is carried out with a bandwidth of 100 kHz (for frequencies below 1 GHz), the limit shall be reduced with 10 dB
Y-axis scale:	10 dB/Div
Input level:	Choose input level within the linear range of the SA mixer (so that no additional spurious are generated by the mixer).
Sweep mode:	Minimum amount of time to ensure measurement accuracy.
Data Points:	Over 400 points
Sweep mode:	Single sweep
Detection mode:	Sample (BIN-Width << RBW, so that all spurious emissions are captured). [BIN-width is the frequency difference between 2 adjacent sample points on the display.]

■ Conditions of Equipment under Test

Set the testing frequency and testing spread codes and modulate using standard encoding test signals. Choose a frequency / channel according to specified range (Low, Middle and High).

Note: If the spurious limit is specified with the EIRP value, the effective (maximum) antenna gain shall be taken into account.

■ Measuring Operation Procedures

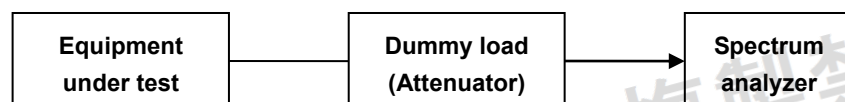
- (1) Configure the settings of the spectrum analyzer to 8.3(1) and search for spurious frequencies by sweeping. Do not conduct the measurements in 8.3(2) if the amplitude value of the acquired spurious frequencies meets the standard value.
- (2) If the acquired spurious amplitude value exceeds the standard value, narrow the sweep Bandwidth, in the order of 100 MHz, 10 MHz, and 1 MHz, to increase the frequency accuracy of the spectrum analyzer and accurately find the spurious frequency. Configure the spectrum analyzer to the settings in 8.3(2), find the average of the spurious amplitude values (in the case of burst waves, the average values are within the respective burst and set this as the measured value. Averaging can be done by summing up the power (display must give the linear power in uW) according to 8.3(2) and dividing by the amount of points. Correction on the equivalent noise bandwidth shall be necessary (if not realized automatically).

3.5. Secondly Emitted Radio Wave Strength Measurement

■ Limit

Frequency (MHz)	Limit (nW)
Under 1 GHz	≤ 4
1 - 12.5 GHz	≤ 20

■ Test Setup



■ Measuring Equipment Conditions

- (1) Set the attenuation of the attenuator to under 20 dB because the subject for measurement is of low level.
- (2) Set the spectrum analyzer as follow:
 - Frequency sweep width: See 7.5 Measuring Operation Procedures
 - Resolution bandwidth: A value determined by the specified dynamic range and the sweep time. (e.g. 30 kHz for 8 GHz sweep width and 30 second sweep time.).
 - Video bandwidth: Approximately the same bandwidth as resolution bandwidth.
 - Y-axis scale: 10 dB/Div
 - Input level: 0 dB, if possible.
 - Sweep mode: Single sweep
 - Detection mode: Positive peak

■ Conditions of Equipment under Test

Set the EUT to receiver the test frequency with forced continuous receiving control.

■ Measuring Operation Procedures

Sweep the spectrum analyzer from a low frequency to a frequency of 3 times if the carrier or over (e.g. 10 MHz to about 8 GHz) and measure the collateral radio emissions.

3.6. Radio Interference Prevention Capability Measurement

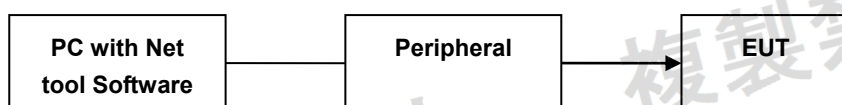
■ Limit

Identification code \geq 48 bits

■ Measuring Id Code Software

MAC IP List: MAC Scan

■ Test Setup



■ Measuring Operation Procedures

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

3.7. Construction Protection Confirmation Method

■ 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.

4 Test Results

BLE 2M

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION

Peak Antenna Gain	1.820	dBi
Declaration Output Power	1.702	mW
Declaration Output Power	2.310	dBm
EIRP	4.130	dBm
Input Power Voltage	100	Vac

Tested Circit Insertion Loss		1.5	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

Comprehensive operation test

; In order to receive constant voltage from AC power supply, power supply voltage examines only by usual state voltage.

2.1 TEST Results (Normal Voltage)

Measurement Frequency		MHz	2402	2440	2480	Result	Limit			
Channel Number		Ch.	0	19	39	----				
Reading Frequency		MHz	2401.9850	2439.9859	2479.9841	----				
Frequency Tolerance		ppm	-6.24	-5.77	-6.40	PASS	-50≤x≤+50			
Occupied Bandwidth		MHz	2.1803	2.1664	2.2007	PASS	≤26 MHz			
RF Output Power		mW	1.702	1.552	1.452	PASS	≤10 mW			
RF Output Power Tolerance		%	0.000	-8.813	-14.689	PASS	-80≤x≤+20			
EIRP		dBm	4.130	3.730	3.440					
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.002	0.002	0.003	PASS	≤2.5uW/MHz			
		MHz	2377.670	305.474	310.385	----				
	2387-2400MHz	μW/MHz	4.688	0.000	0.000	PASS	≤25uW/MHz			
		MHz	2399.940	2392.080	2388.220	----				
	2483.5-2496.5MHz	μW/MHz	0.000	0.000	0.009	PASS	≤25uW/MHz			
		MHz	2483.950	2488.200	2483.560	----				
	2496.5 - 12.5GHz	μW/MHz	0.029	0.015	0.009	PASS	≤2.5uW/MHz			
		MHz	4803.220	4878.700	4958.730	----				
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.152	0.396	0.016	PASS	≤ 4 nW			
		MHz	730.231	730.330	279.379	----				
	1 - 12.5GHz	nW	0.363	0.139	0.142	PASS	≤ 20 nW			
		MHz	2459.060	7494.150	2454.270	----				
Interference Prevention Function		----	good			PASS				

BLR C8

2. TEST RESULTS DATA FOR JAPANESE CERTIFICATION

Peak Antenna Gain	1.820	dBi
Declaration Output Power	1.698	mW
Declaration Output Power	2.299	dBm
EIRP	4.119	dBm
Input Power Voltage	100	Vac

Tested Circuit Insertion Loss		1.5	dB
Burst	ON TIME	-Not applicable-	sec
	OFF TIME	-Not applicable-	sec
	Ratio	-Not applicable-	%
Packet Type (Mode)		-Not applicable-	mode

Test Category ; 2.4GHz Band Wideband Low-Power Data Communication System

Comprehensive operation test

: In order to receive constant voltage from AC power supply, power supply voltage examines only by usual state voltage.

2.1 TEST Results (Normal Voltage)

Measurement Frequency			MHz	2402	2440	2480	Result	Limit			
Channel Number			Ch.	0	19	39	----				
Reading Frequency			MHz	2401.9850	2439.9856	2479.9838	----				
Frequency Tolerance			ppm	-6.24	-5.90	-6.52	PASS	-50≤x≤+50			
Occupied Bandwidth			MHz	1.2810	1.2723	1.2775	PASS	≤26 MHz			
RF Output Power			mW	1.698	1.552	1.455	PASS	≤10 mW			
RF Output Power Tolerance			%	0.000	-8.598	-14.311	PASS	-80≤x≤+20			
EIRP			dBm	4.120	3.730	3.450					
Unwanted Emission Strength (TX1)	Under 2387MHz	μW/MHz	0.002	0.002	0.003	PASS	≤2.5uW/MHz				
		MHz	2378.650	715.003	310.385	----					
	2387-2400MHz	μW/MHz	0.240	0.001	0.000	PASS	≤25uW/MHz				
		MHz	2399.940	2391.960	2398.260	----					
	2483.5-2496.5MHz	μW/MHz	0.000	0.001	0.002	PASS	≤25uW/MHz				
		MHz	2491.290	2488.070	2483.950	----					
	2496.5 - 12.5GHz	μW/MHz	0.030	0.018	0.012	PASS	≤2.5uW/MHz				
		MHz	4804.130	4879.610	4959.630	----					
Secondarily Emitted Radio Wave Strength (RX Spurious) (RX1)	Under 1GHz	nW	0.049	0.155	0.051	PASS	≤ 4 nW				
		MHz	300.066	730.330	309.865	----					
	1 - 12.5GHz	nW	0.845	0.687	0.421	PASS	≤ 20 nW				
		MHz	4.802	4877.900	4958.400	----					
Interference Prevention Function			----	good			PASS				

■ Antenna List

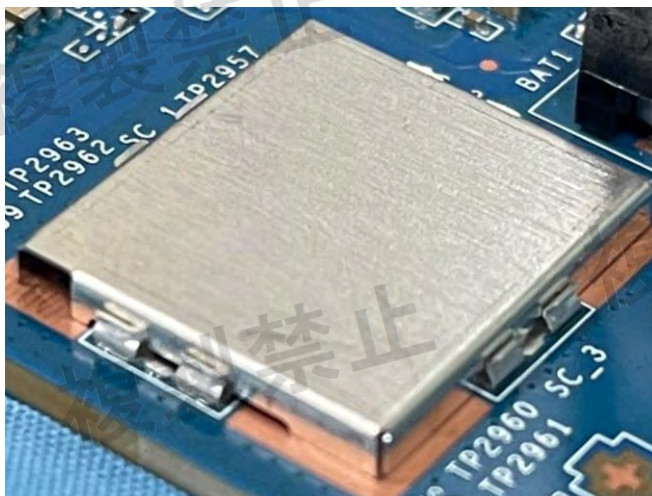
Antenna			Gain Specification			Notes (Cable or Others)
No	Type	Model Name	Max Gain (dBi)	Attenuation (dB)	Net Gain (dBi)	
ANT-0	PIFA Antenna	ARY196-0346-005-00	1.82	0	0	Horizontal + Vertical
ANT-0	PIFA Antenna	WA-F-LA-02-114	0.73	0	0	Horizontal + Vertical

■ Construction Protection Confirmation Method

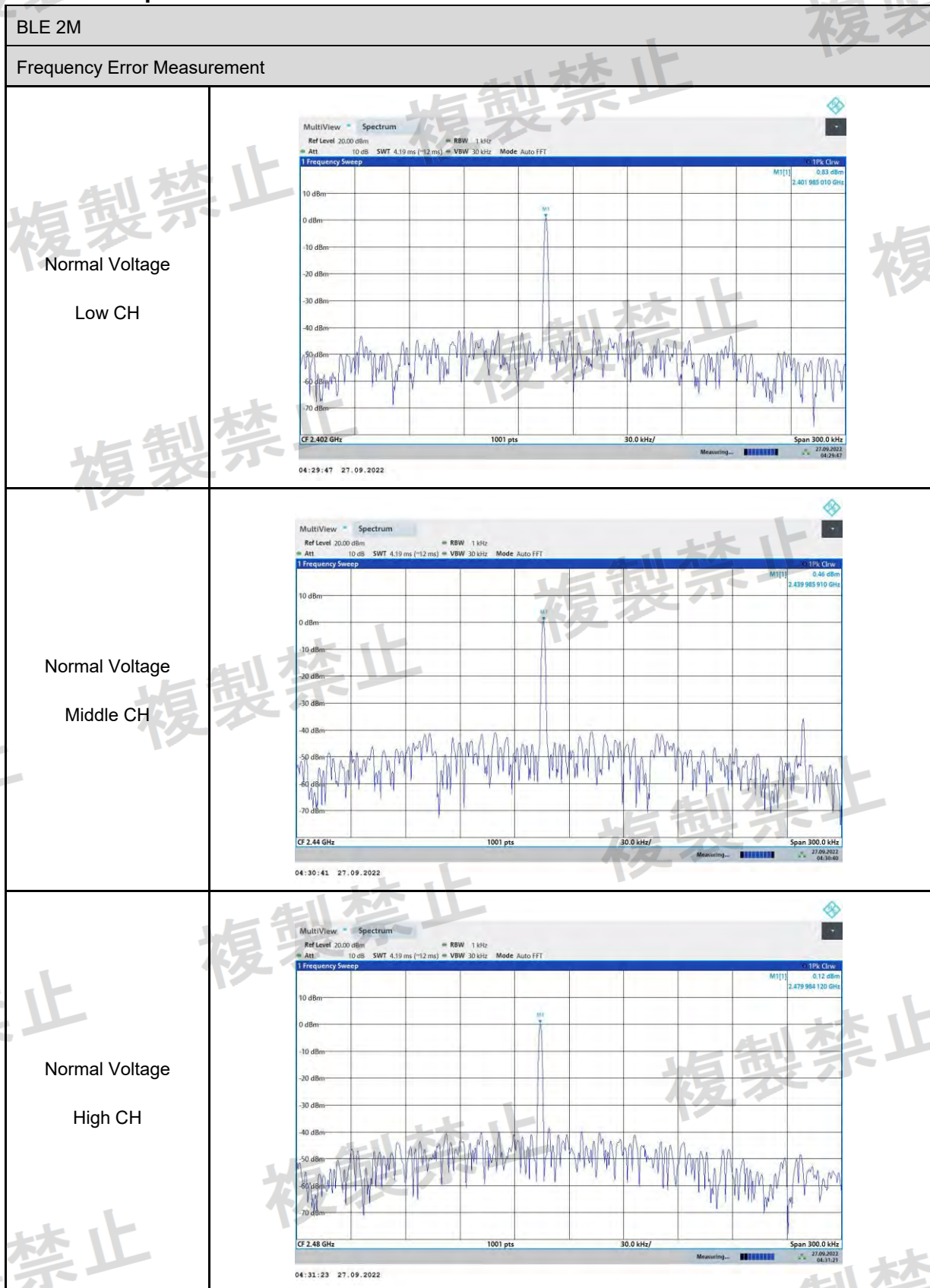
Confirmation Method

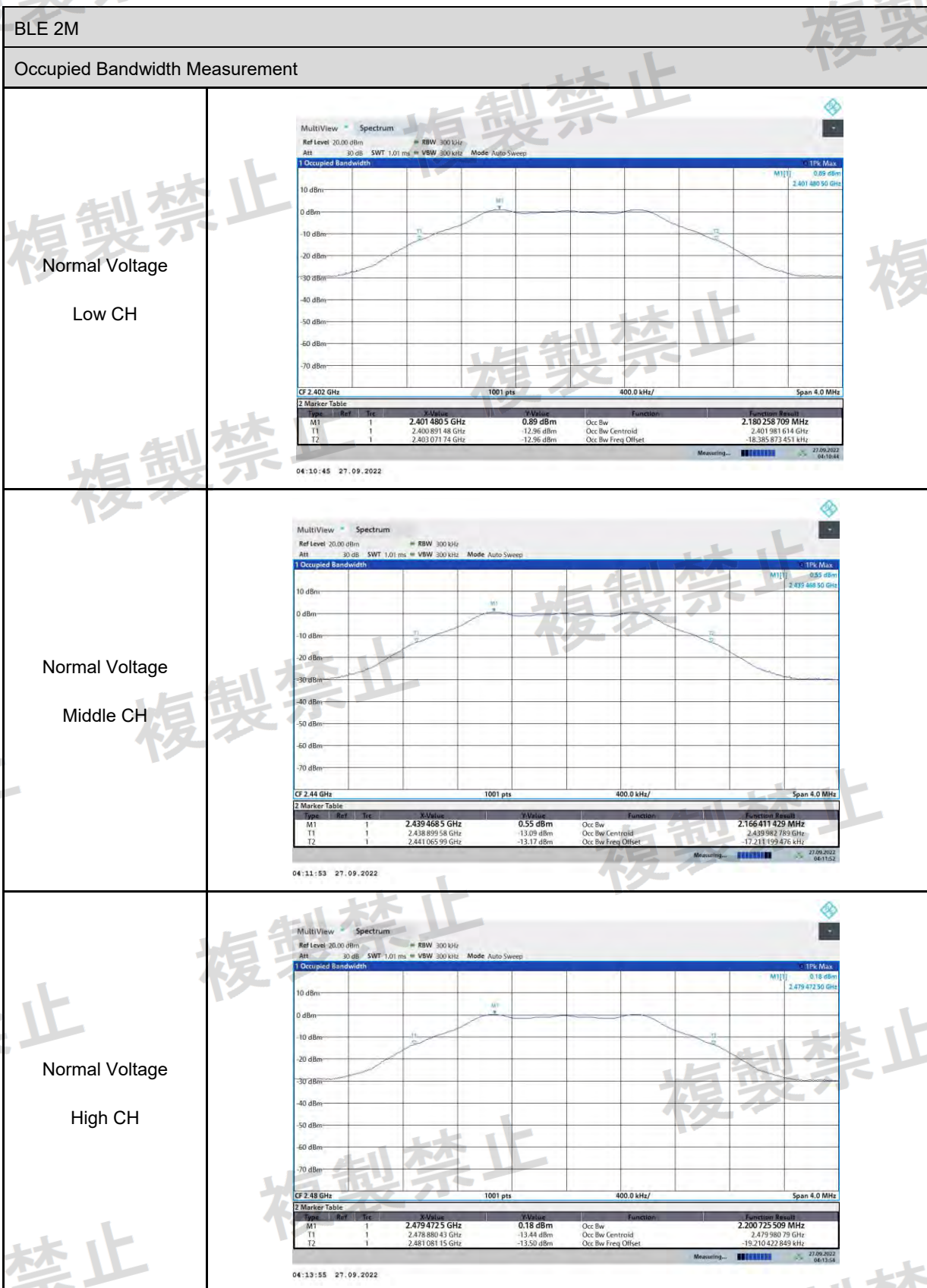
<input type="checkbox"/>	1. Sealed with special screws (indicate the special screws used in Exterior View Drawings, and also attach its technical drawings of such screws).
<input type="checkbox"/>	2. Plastic chassis is being welded using ultrasonic waves.
<input type="checkbox"/>	3. Chassis is glued using a special adhesive.
<input type="checkbox"/>	4. Metal covers are spot-fused (indicate the fused points in Exterior View Drawings).
<input type="checkbox"/>	5. Cover is specially interlocked (indicate the interlocked part in Exterior View Drawings).
<input type="checkbox"/>	6. Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
<input type="checkbox"/>	7. Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
<input type="checkbox"/>	8. Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
<input type="checkbox"/>	9. Other (Shield case is combined with Y-clips which welded at RF and modulation parts to fix the shield case onto the printed circuit board. Intrusion detection switch which installed in the device can leave a record in system when the enclosure of the device is opened. Brittle destructable warranty label is stucked on the screws of device enclosure.)

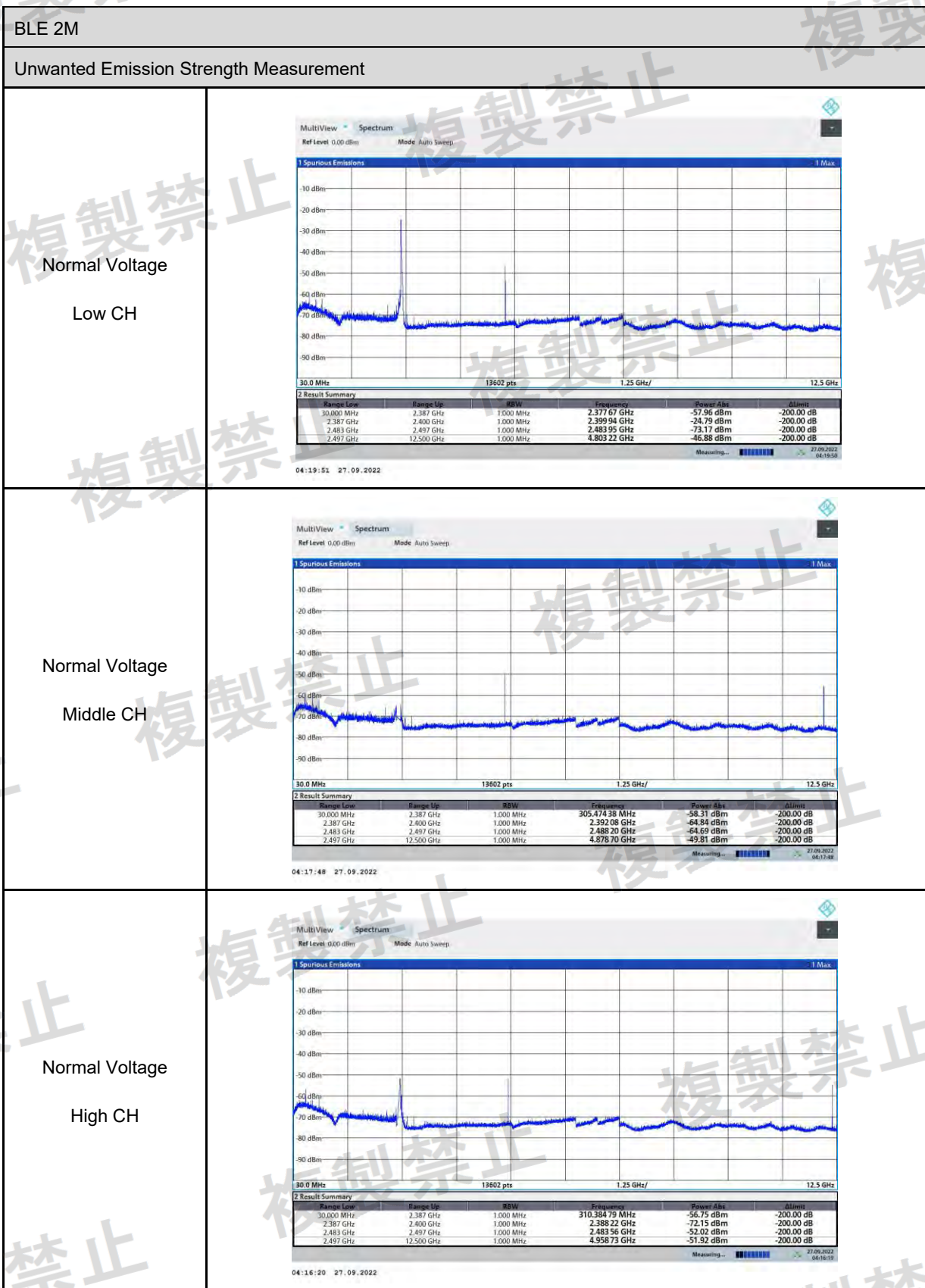
Photo



Test Graphs







BLE 2M

Secondarily Emitted Radio Wave Strength Measurement

Normal Voltage

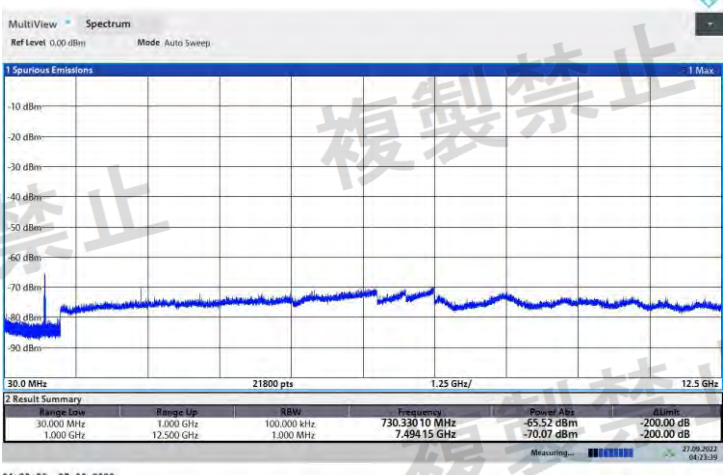
Low CH



04:22:58 27.09.2022

Normal Voltage

Middle CH




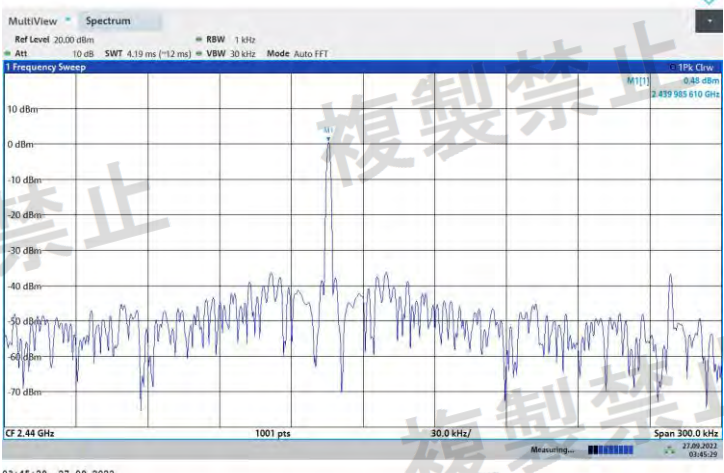
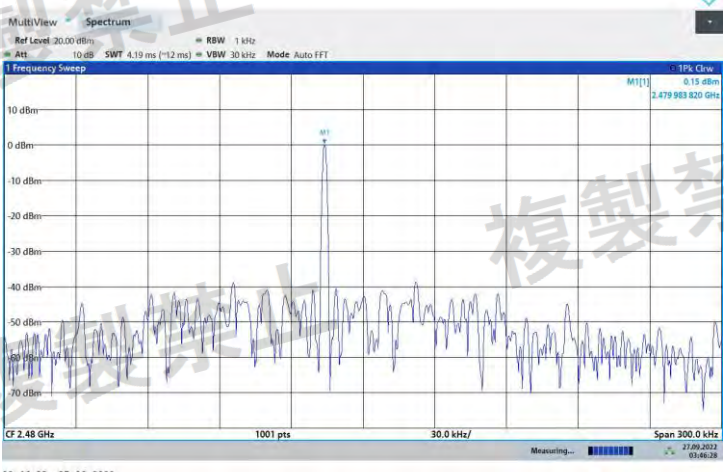
04:23:39 27.09.2022

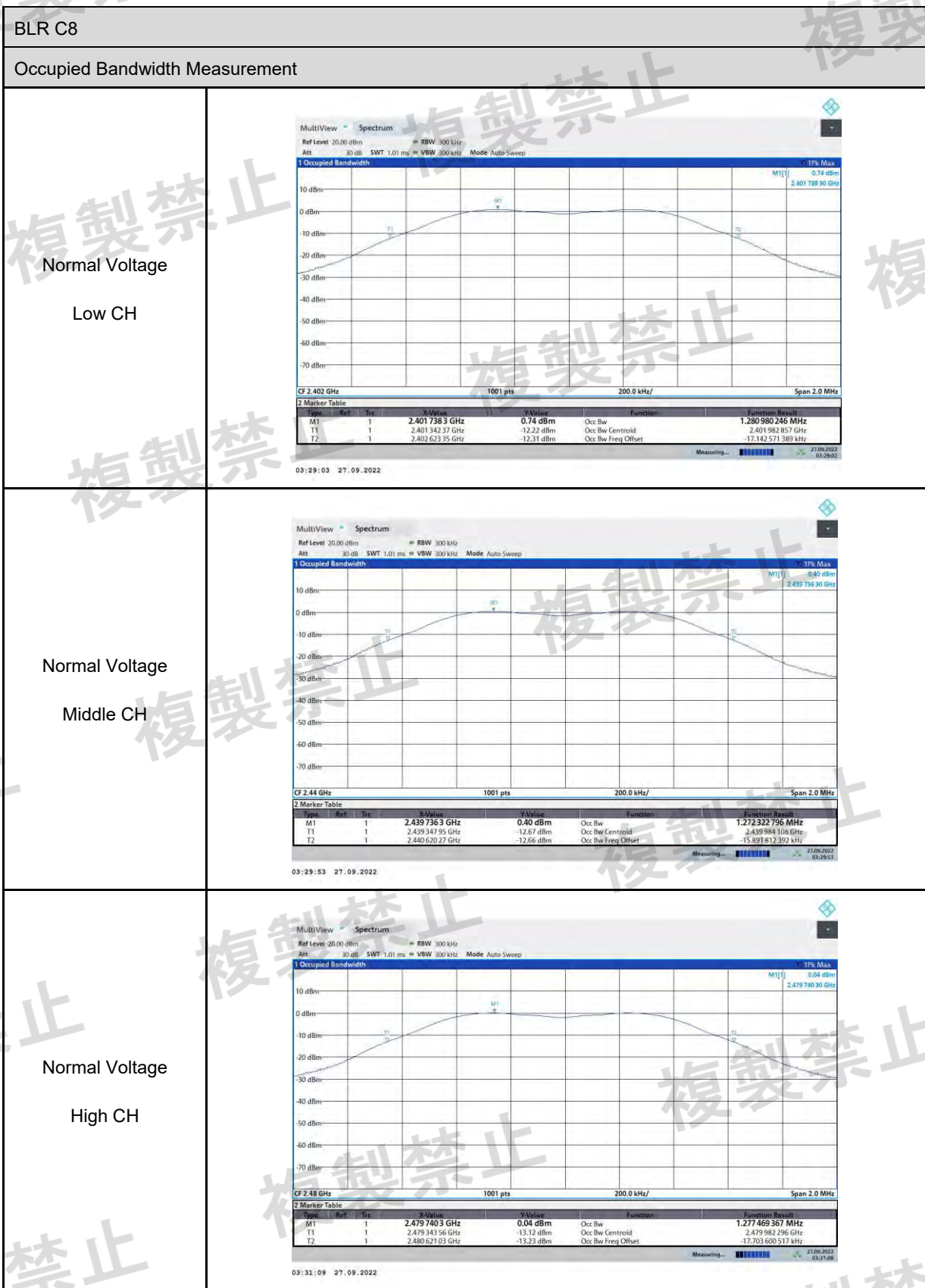
Normal Voltage

High CH



04:25:30 27.09.2022

BLR C8	
Frequency Error Measurement	
Normal Voltage Low CH	
Normal Voltage Middle CH	
Normal Voltage High CH	



BLR C8

Unwanted Emission Strength Measurement

Normal Voltage

Low CH



03:18:36 27.09.2022

Normal Voltage

Middle CH



03:17:49 27.09.2022

Normal Voltage

High CH



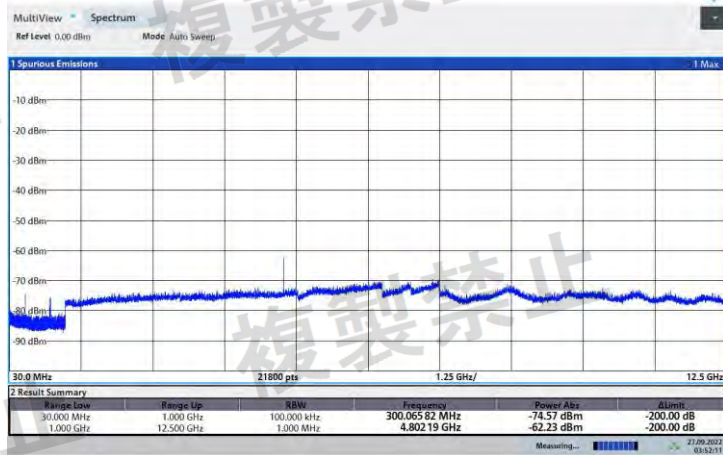
03:16:37 27.09.2022

BLR C8

Secondarily Emitted Radio Wave Strength Measurement

Normal Voltage

Low CH



09:52:11 27.09.2022

Normal Voltage

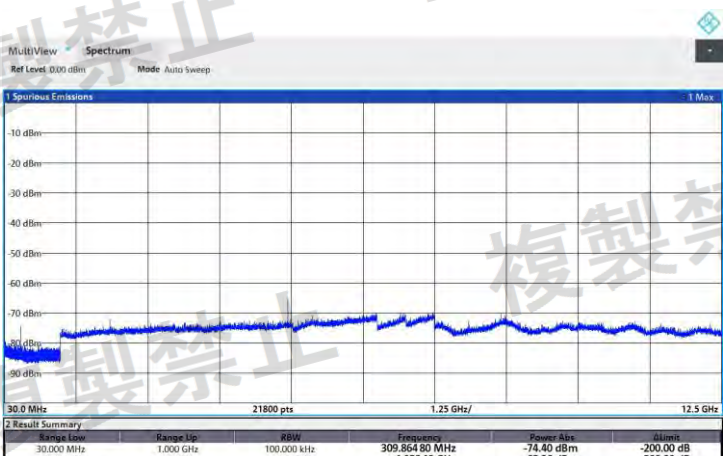
Middle CH



09:53:47 27.09.2022

Normal Voltage

High CH



09:54:49 27.09.2022

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Appendix A. Test Setup Photographs

Description: Test Circuit Photo

