



REPORT No.: SZ26030442W01

TEST REPORT

APPLICANT : ShenZhen RiShengHua
Technology Co.,Ltd.

PRODUCT NAME : Smart Card Finder

MODEL NAME : ICARD08

BRAND NAME : /

STANDARD(S) : Article 2 Paragraph 1 of Item 19,
annex 43 and annex 1

RECEIPT DATE : 2026-03-12

TEST DATE : 2026-03-16 to 2026-03-26

ISSUE DATE : 2026-03-26



Edited by:

Zeng Xiaoying
Zeng Xiaoying (Rapporteur)

Approved by:

Shen Junsheng
Shen Junsheng (Supervisor)

NOTE: This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn





DIRECTORY

1. Summary of Test Results	4
1.1. Testing Applied Methods	4
1.2. Test Equipment List	5
1.3. Measurement Uncertainty	6
1.4. Testing Laboratory	6
2. General Description	7
2.1. Information of Applicant and Manufacturer	7
2.2. Information of EUT	7
2.3. Information of Antenna	8
2.4. Channel List of EUT	8
2.5. Test Configuration of EUT	9
2.6. Test Conditions	10
2.7. Test Setup Layout Diagram	11
3. Description of Test Items	12
3.1. Frequency Error	12
3.2. Occupied Bandwidth	13
3.3. Unwanted Emission Intensity	14
3.4. Antenna Power Error	15
3.5. Limitation of Collateral Emission of Receiver	16
3.6. E.I.R.P.	17
3.7. Radiation Angle of Antenna	18
3.8. Radio Interference Prevention Capability	19
3.9. Construction Protection Confirmation Method	20
Annex A Test Data and Results	21



REPORT No.: SZ26030442W01

Change History		
Version	Date	Reason for change
1.0	2026-03-26	First edition

1. Summary of Test Results

No.	Description of Test	Test Engineer	Result	Remark
1	Frequency Error	Lin Haoyang	PASS	/
2	Occupied Bandwidth	Lin Haoyang	PASS	/
3	Unwanted Emission Intensity	Lin Haoyang	PASS	/
4	Antenna Power Error	Lin Haoyang	PASS	/
5	Limitation of Collateral Emission of Receiver	Lin Haoyang	PASS	/
6	E.I.R.P.	Lin Haoyang	PASS	/
7	Radiation Angle of Antenna	Lin Haoyang	PASS	/
8	Radio Interference Prevention Capability	Lin Haoyang	PASS	/
9	Construction Protection Confirmation	Lin Haoyang	PASS	/

Note 1: The test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

1.1. Testing Applied Methods

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

- Certification of technical standard conformity for specified radio equipment, etc. Article 2 Paragraph 1 of Item 19, annex 43 and annex 1
- Radio Equipment Regulations Article 49-20



1.2. Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date	Cal. Body	Cal. Method
EXA Signal Analyzer	Agilent	N9010A	MY53470836	2026.01.15	2027.01.14	SMQ	c
DC Power Supply	IVYTECH	IV3610	1709D361010	2025.09.11	2026.09.10	CCIC	c
Power Sensor	Agilent	U2021XA	MY54180008	2025.09.11	2026.09.10	CCIC	c
Radio Communication Tester	R&S	CMW500	108950	2026.01.06	2027.01.05	CCIC	c

Note 1: The equipment were calibrated by CCIC (Shenzhen) Metrology&Testing Service Co.,Ltd and Shenzhen Academy of Metrology and Quality Inspection.

Note 2: Calibration Method:

- 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);
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992);
- 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);
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c).



REPORT No.: SZ26030442W01

1.3. Measurement Uncertainty

No.	Test Items	Uncertainty	Remark
1	Frequency Error / 99% Bandwidth	$\pm 1.75 \times 10^{-6}$	Confidence levels of 95%
2	Antenna Power	$\pm 1.14\text{dB}$	Confidence levels of 95%
3	Spurious Emissions(<1GHz)	$\pm 2.23\text{dB}$	Confidence levels of 95%
4	Spurious Emissions(>1GHz)	$\pm 1.72\text{dB}$	Confidence levels of 95%
5	Transmission Antenna Gain	$\pm 2.49\text{dB}$	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone	+86 755 36698555
Facsimile	+86 755 36698525

2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	ShenZhen RiShengHua Technology Co.,Ltd.
Applicant Address	2F, Building E1, Qiangrongdong Industrial Zone, No.723, Zhoushi Road, Jiwei Community, Hangcheng Street, Baoan District, Shenzhen City, Guangdong Province
Manufacturer	ShenZhen RiShengHua Technology Co.,Ltd.
Manufacturer Address	2F, Building E1, Qiangrongdong Industrial Zone, No.723, Zhoushi Road, Jiwei Community, Hangcheng Street, Baoan District, Shenzhen City, Guangdong Province

2.2. Information of EUT

Product Name	Smart Card Finder		
Sample No.	1#		
Hardware Version	V2		
Software Version	V1.7.0		
Equipment Type	Bluetooth LE		
Bluetooth Version	5.4		
Modulation Technology	GFSK		
Data Rate	1Mbps, 2Mbps		
Operating Frequency Range	2402MHz – 2480MHz (at interval of 2MHz)		
Channel List	Please refer as chapter 2.4 in this report.		
Power Supply	Type	Battery	
	Voltage (V)	Low	3.4
		Rated	3.7
		High	4.2

Note 1: The EUT has two antennas that cannot transmit simultaneously. Both of the two antennas were evaluated separately, only the worst test result (ANT 3) were recorded in the test report.

Note 2: The black bold voltage values were selected for test, about the voltage fluctuation evaluation, please refer as chapter 2.6.2 in this report.

Note 3: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.3. Information of Antenna

Antenna Manufacturer	N/A
Brand Name	N/A
Model Name	N/A
Antenna Type	Chip Antenna
Antenna Gain	ANT : 2.7dBi

2.4. Channel List of EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

Note 1: The black bold channels were selected for test.



2.5. Test Configuration of EUT

2.5.1. Evaluation of The Worst Case

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Channel
Frequency Error	Unmodulated Single Carrier	0/19/39
Occupied Bandwidth	GFSK	0/19/39
Unwanted Emission Intensity	GFSK	0/19/39
Antenna Power and Antenna Power Error	GFSK	0/19/39
Limitation of Collateral Emission of Receiver	GFSK	0/19/39
Transmission Antenna Gain	GFSK	0/19/39
Transmission Radiation Angle Width	GFSK	0/19/39
Radio Interference Prevention Capability	GFSK	Normal Use

2.5.2. Operation and Transmitter Power Setting

The EUT was tested while in a continues transmitter/receiver mode under the control of tool which is provided by manufacturer, all the items of transmitter were tested under the power setting as below:

Mode	Data Rate	Channel	Power Setting
Unmodulated Single Carrier	-	0/19/39	Default
GFSK	1Mbps	0/19/39	Default
GFSK	2Mbps	0/19/39	Default



2.6. Test Conditions

2.6.1. Environment Condition

Temperature (°C)	22.5
Relative Humidity (%)	55

2.6.2. Power Supply Voltage Fluctuation

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

Power Supply		External Voltage $V_E(V)$			Internal Voltage V_I		
		V_{EN}	V_{EL}/V_{EH}		$V_{IN}(V)$	$V_{IE}(V)$	Variation of V_I
Type1	Battery	3.7	V_{EL}	3.40	1.8	1.796	0.22%
			V_{EH}	4.10		1.811	0.61%

V_{EN} : Normal Voltage

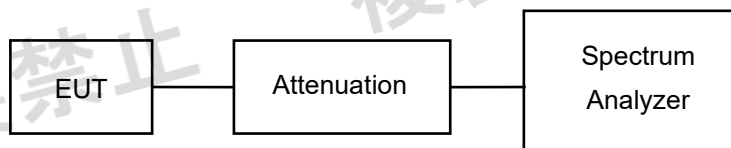
V_{EL} : V_{EL} is the declared low voltage provided that $V_{EN} \times 90\%$ is less than the declared low voltage, otherwise it is $V_{EN} \times 90\%$

V_{EH} : V_{EH} is the declared high voltage provided that $V_{EN} \times 110\%$ is larger than the declared high voltage, otherwise it is $V_{EN} \times 110\%$

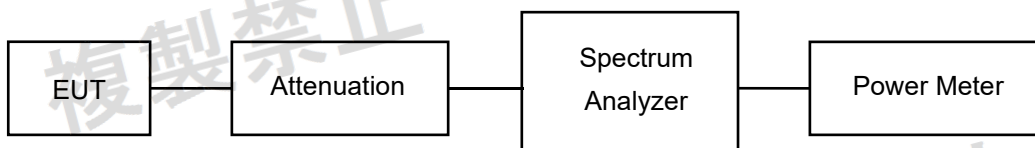
V_{IN} : The voltage supply to the radio unit.

2.7. Test Setup Layout Diagram

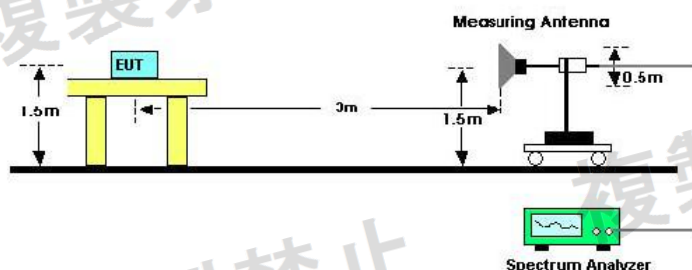
2.7.1. General Measurement



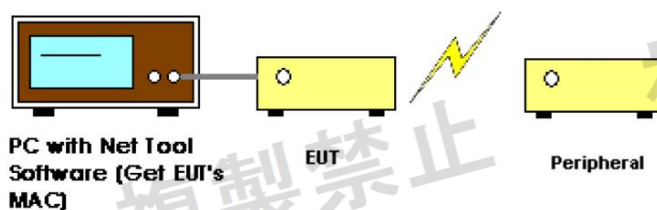
2.7.2. Antenna Power Measurement



2.7.3. Radiation Angle of Antenna



2.7.4. Radio Interference Prevention Capability Measurement





REPORT No.: SZ26030442W01

3. Description of Test Items

3.1. Frequency Error

3.1.1. Limits

Within ± 50 ppm.

3.1.2. Test Procedures

According to MIC Notice No.88 Annex 43.

3.1.3. Test Setup Layout

Refer to chapter 2.7.1 in this report.

3.1.4. Test Deviation

There is no deviation with the original standard.

3.1.5. Test Results

Refer to Annex A.1 in this report.



3.2. Occupied Bandwidth

3.2.1. Limits

Type	Limits
FHSS	≤83.5MHz
DSSS	≤26MHz
OFDM	
Other	

3.2.2. Test Procedures

According to MIC Notice No.88 Annex 43.

3.2.3. Test Setup Layout

Refer to chapter 2.7.1 in this report.

3.2.4. Test Deviation

There is no deviation with the original standard.

3.2.5. Test Results

Refer to Annex A.2 in this report.



3.3. Unwanted Emission Intensity

3.3.1. Limits

Frequency Range	Limits
30MHz-1000MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$
1000MHz-2387MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$
2387MHz-2400MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2483.5MHz-2496.5MHz	$\leq 25 \mu\text{W}/\text{MHz}$
2496.5MHz-12500MHz	$\leq 2.5 \mu\text{W}/\text{MHz}$

3.3.2. Test Procedures

According to MIC Notice No.88 Annex 43.

3.3.3. Test Setup Layout

Refer to chapter 2.7.1 in this report.

3.3.4. Test Deviation

There is no deviation with the original standard.

3.3.5. Test Results

Refer to Annex A.3 in this report.

Note1: The spurious emissions mask that displayed on the plots is composed of several frequency ranges below:

Range	Start Freq. (MHz)	Stop Freq. (MHz)	RBW	VBW	Detector Type	Trace Mode	Limit (μW)
1	30	1000	100kHz	100kHz	Peak	Max Hold	2.5
2	1000	2387	1MHz	1MHz	Peak	Max Hold	2.5
3	2387	2400	1MHz	1MHz	Peak	Max Hold	25
4	2400	2483.5	1MHz	1MHz	Peak	Max Hold	--
5	2483.5	2496.5	1MHz	1MHz	Peak	Max Hold	25
6	2496.5	12500	1MHz	1MHz	Peak	Max Hold	2.5

Note 2: Only the spurious with the minimum margin from the limit line will be displayed in the mark table (The lower window on the test plots).



3.4. Antenna Power Error

3.4.1. Limits

Type	Frequency Range	Limits	
		Antenna Power Density	Antenna Power Error
FHSS	2427-2470.75 MHz	≤ 3 mW/MHz	$\leq +20\%$
	2400-2483.5 MHz (except 2427-2470.75 MHz)	≤ 10 mW/MHz	
DSSS	2400-2483.5 MHz	≤ 10 mW/MHz	
OFDM	2400-2483.5 MHz	≤ 10 mW/MHz (20MHz System) ≤ 5 mW/MHz (40MHz System)	
Other	2400-2483.5 MHz	≤ 10 mW	

3.4.1. Test Procedures

According to MIC Notice No.88 Annex 43.

3.4.2. Test Setup Layout

Refer to chapter 2.7.2 in this report.

3.4.3. Test Deviation

There is no deviation with the original standard.

3.4.4. Test Results

Refer to Annex A.4 in this report.



3.5. Limitation of Collateral Emission of Receiver

3.5.1. Limits

Frequency Range	Limits
30MHz-1000MHz	$\leq 4\text{nW}/100\text{kHz}$
1000MHz-12500MHz	$\leq 20\text{nW}/\text{MHz}$

3.5.2. Test Procedures

According to MIC Notice No.88 Annex 43.

3.5.3. Test Setup Layout

Refer to chapter 2.7.1 in this report.

3.5.4. Test Deviation

There is no deviation with the original standard.

3.5.5. Test Results

Refer to Annex A.5 in this report.

Note 1: The spurious emissions mask that displayed on the plots is composed of several frequency ranges below:

Range	Start Freq. (MHz)	Stop Freq. (MHz)	RBW	VBW	Detector Type	Trace Mode	Limit (nW)
1	30	1000	100kHz	100kHz	Peak	Max Hold	4
2	1000	12500	1MHz	1MHz	Peak	Max Hold	20

Note 2: Only the spurious with the minimum margin from the limit line will be displayed in the mark table (The lower window on the test plots).



3.6.E.I.R.P.

3.6.1.Limits

Type	Frequency Range	Limits
FHSS	2427-2470.75 MHz	6.91-16.91dBm/MHz
	2400-2483.5 MHz (except 2427-2470.75 MHz)	12.14-22.14dBm/MHz
DSSS	2400-2483.5 MHz	12.14-22.14dBm/MHz
OFDM	2400-2483.5 MHz	12.14-22.14dBm/MHz (20MHz System) 9.13-19.13dBm/MHz (40MHz System)
Other	2400-2483.5 MHz	12.14-22.14dBm (GFSK) 10dBm (except GFSK)

Note: This item not be applied to the transmission antenna which has a gain of 2.14dBi or less

3.6.2.Test Procedures

According to MIC Notice No.88 Annex 43.

3.6.3.Test Setup Layout

Refer to chapter 2.7.2 in this report.

3.6.4.Test Deviation

There is no deviation with the original standard.

3.6.5.Test Results

Refer to Annex A.6 in this report.



3.7. Radiation Angle of Antenna

3.7.1. Limits

Type	Limits
FHSS	360° /A; (A= E.I.R.P./ 6.91, if A<1; then A=1)
DSSS	360° /A; (A= E.I.R.P./ 12.14, if A<1; then A=1)
OFDM	
Other	

Note: This item not be applied to the transmission antenna which has a gain of 2.14dBi or less

3.7.2. Test Procedures

According to MIC Notice No.88 Annex 43.

3.7.3. Test Setup Layout

Refer to chapter 2.7.3 in this report.

3.7.4. Test Deviation

There is no deviation with the original standard.

3.7.5. Test Results

Refer to Annex A.7 in this report.



3.8. Radio Interference Prevention Capability

3.8.1. Limits

The one automatically to transmit and to receive identification code with the wireless equipment of the wireless station used in the same premises.

3.8.2. Test Procedures

According to MIC Notice No.88 Annex 43.

3.8.3. Test Setup Layout

Refer to chapter 2.7.4 in this report.

3.8.4. Test Deviation

There is no deviation with the original standard.

3.8.5. Test Results

Refer to Annex A.8 in this report.

3.9. Construction Protection Confirmation Method

3.9.1. Limits

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

3.9.2. Confirmation Method

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

Protected Method	Description
Shield	The RF module use a shield to protect the RF and modulation portions, if the shield is removed, the module will be damaged to the point that it will not work properly.

3.9.3. Reference Documents

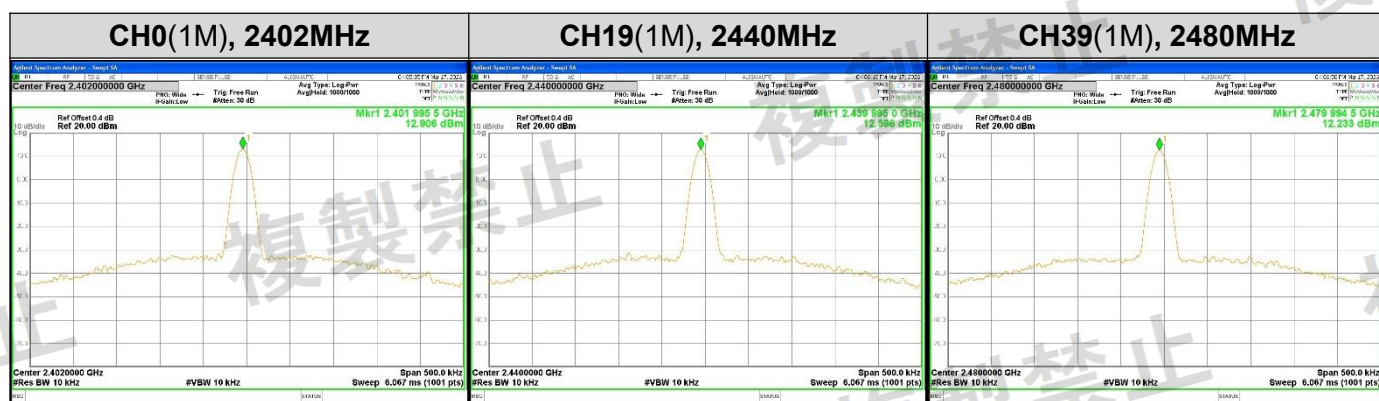
Reference Documents	Item
Photo	



Annex A Test Data and Results

A.1. Frequency Error

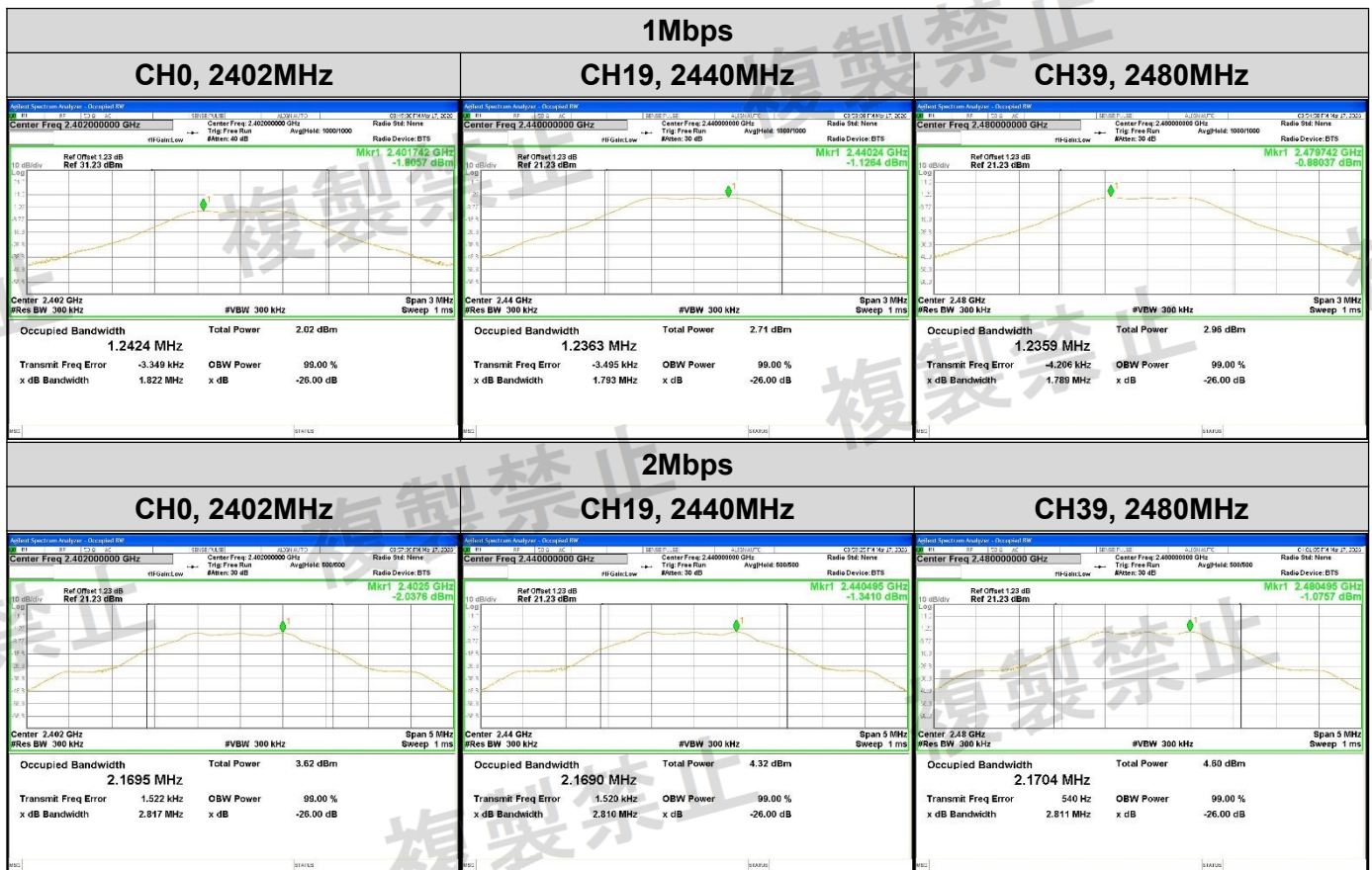
Channel	Frequency f_c (MHz)	Test Frequency f (MHz)	Frequency Error (ppm)	Verdict
0	2402	2401.9955	-1.873	PASS
19	2440	2439.995	-2.049	PASS
39	2480	2479.9945	-2.218	PASS





A.2. Occupied Bandwidth

Mode	Channel	Frequency (MHz)	Measured 99% Occupied Bandwidth (MHz)	Verdict
1Mbps	0	2402	1.2424	PASS
	19	2440	1.2363	PASS
	39	2480	1.2359	PASS
2Mbps	0	2402	2.1695	PASS
	19	2440	2.169	PASS
	39	2480	2.1704	PASS



**A.3. Unwanted Emission Intensity**

Mode	Frequency Range (MHz)	Test Result Value	Limit	Verdict
1Mbps & 2Mbps	30~1000	Refer to below plot	2.5 μ W/MHz	PASS
	1000~2387		2.5 μ W/MHz	PASS
	2387~2400		25 μ W/MHz	PASS
	2483.5~2496.5		25 μ W/MHz	PASS
	2496.5~12500		2.5 μ W/MHz	PASS

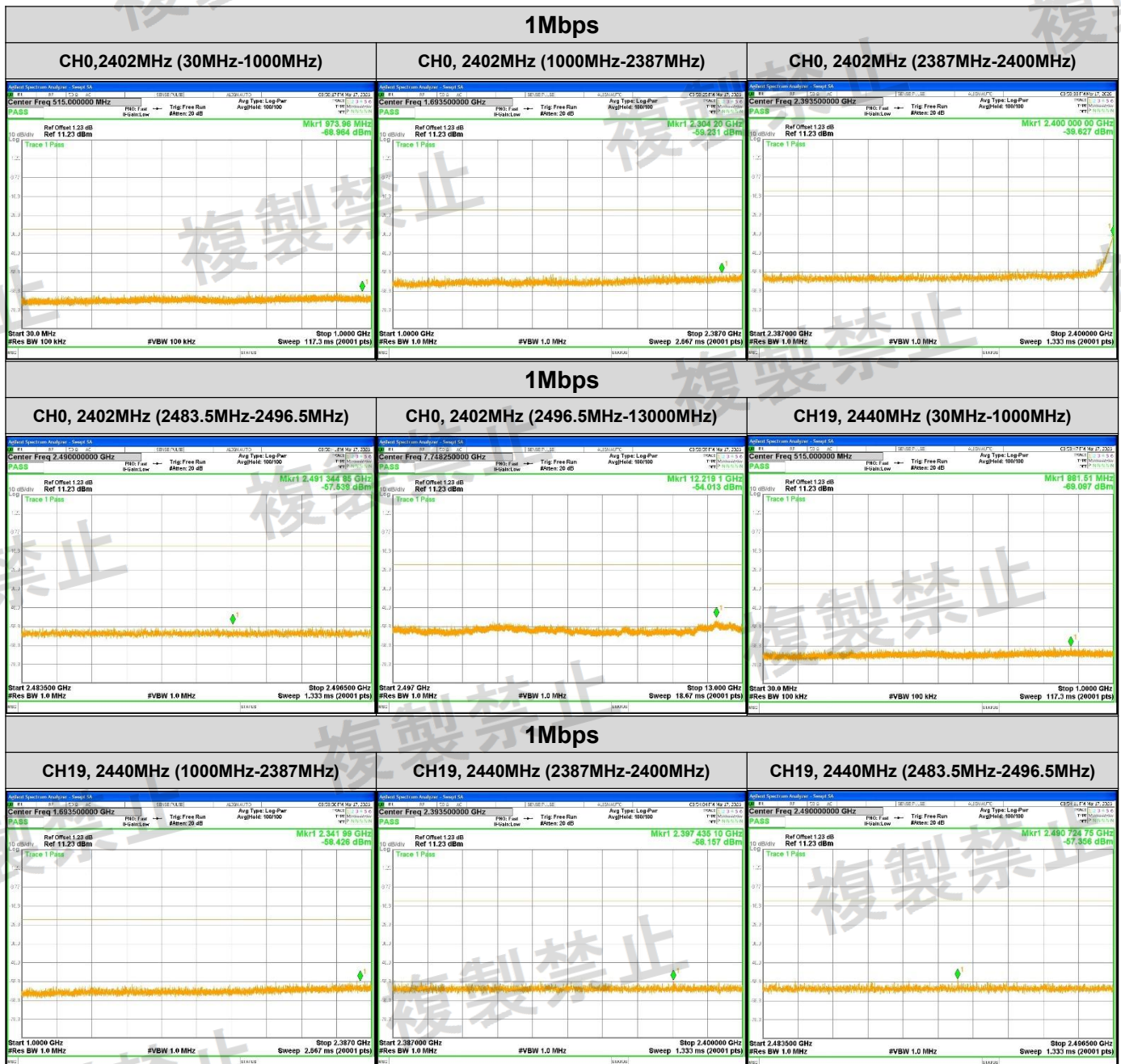
Test data

Test Mode	Freq. (MHz)	Max Value (dBm)	Max Value (μ W)	Limit (μ W)	Verdict
BLE 1M	CH0 2402MHz (30MHz-1000MHz)	-68.96	0.0001	≤ 2.5	PASS
BLE 1M	CH0 2402MHz (1000MHz-2387MHz)	-59.23	0.0012	≤ 2.5	PASS
BLE 1M	CH0 2402MHz (2387MHz-2400MHz)	-39.63	0.1089	≤ 25	PASS
BLE 1M	CH0 2402MHz(2483.5MHz-2496.5MHz)	-57.54	0.0018	≤ 25	PASS
BLE 1M	CH0 2402MHz (2496.5MHz-13000MHz)	-54.01	0.0040	≤ 2.5	PASS
BLE 1M	CH39 2441MHz (30MHz-1000MHz)	-69.10	0.0001	≤ 2.5	PASS
BLE 1M	CH39 2441MHz (1000MHz-2387MHz)	-58.43	0.0014	≤ 2.5	PASS
BLE 1M	CH39 2441MHz (2387MHz-2400MHz)	-58.16	0.0015	≤ 25	PASS
BLE 1M	CH39 2441MHz (2483.5MHz-2496.5MHz)	-57.36	0.0018	≤ 25	PASS
BLE 1M	CH39 2441MHz (2496.5MHz-13000MHz)	-55.40	0.0029	≤ 2.5	PASS
BLE 1M	CH78 2480MHz (30MHz-1000MHz)	-68.83	0.0001	≤ 2.5	PASS
BLE 1M	CH78 2480MHz (1000MHz-2387MHz)	-58.61	0.0014	≤ 2.5	PASS
BLE 1M	CH78 2480MHz (2387MHz-2400MHz)	-58.10	0.0015	≤ 25	PASS
BLE 1M	CH78 2480MHz (2483.5MHz-2496.5MHz)	-56.77	0.0021	≤ 25	PASS
BLE 1M	CH78 2480MHz (2496.5MHz-13000MHz)	-54.78	0.0033	≤ 2.5	PASS
BLE 2M	CH0 2402MHz (30MHz-1000MHz)	-69.75	0.0001	≤ 2.5	PASS
BLE 2M	CH0 2402MHz (1000MHz-2387MHz)	-58.47	0.0014	≤ 2.5	PASS
BLE 2M	CH0 2402MHz (2387MHz-2400MHz)	-24.52	3.5318	≤ 25	PASS
BLE 2M	CH0 2402MHz (2483.5MHz-2496.5MHz)	-58.24	0.0015	≤ 25	PASS
BLE 2M	CH0 2402MHz (2496.5MHz-13000MHz)	-55.42	0.0029	≤ 2.5	PASS
BLE 2M	CH39 2441MHz (30MHz-1000MHz)	-69.88	0.0001	≤ 2.5	PASS
BLE 2M	CH39 2441MHz (1000MHz-2387MHz)	-59.04	0.0012	≤ 2.5	PASS
BLE 2M	CH39 2441MHz (2387MHz-2400MHz)	-57.82	0.0017	≤ 25	PASS
BLE 2M	CH39 2441MHz (2483.5MHz-2496.5MHz)	-57.84	0.0016	≤ 25	PASS
BLE 2M	CH39 2441MHz (2496.5MHz-13000MHz)	-55.08	0.0031	≤ 2.5	PASS
BLE 2M	CH78 2480MHz (30MHz-1000MHz)	-69.98	0.0001	≤ 2.5	PASS



REPORT No.: SZ26030442W01

Test Mode	Freq. (MHz)	Max Value (dBm)	Max Value (μW)	Limit (μW)	Verdict
BLE 2M	CH78 2480MHz (1000MHz-2387MHz)	-48.46	0.0143	<=2.5	PASS
BLE 2M	CH78 2480MHz (2387MHz-2400MHz)	-58.76	0.0013	<=25	PASS
BLE 2M	CH78 2480MHz (2483.5MHz-2496.5MHz)	-52.24	0.0060	<=25	PASS
BLE 2M	CH78 2480MHz (2496.5MHz-13000MHz)	-55.12	0.0031	<=2.5	PASS



MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL-1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

Tel: 86-755-36698555

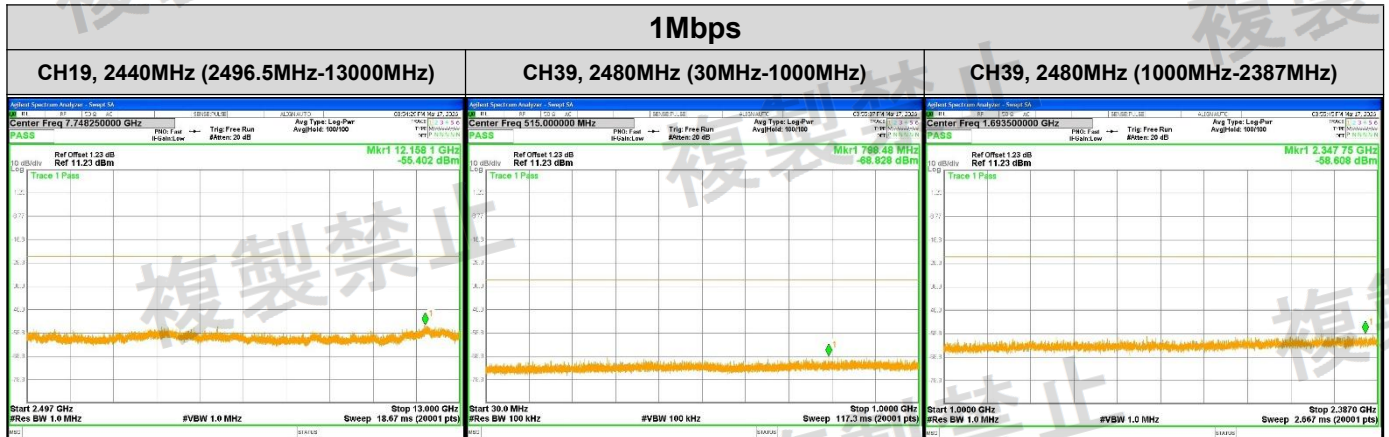
Http://www.morlab.cn

Fax: 86-755-36698525

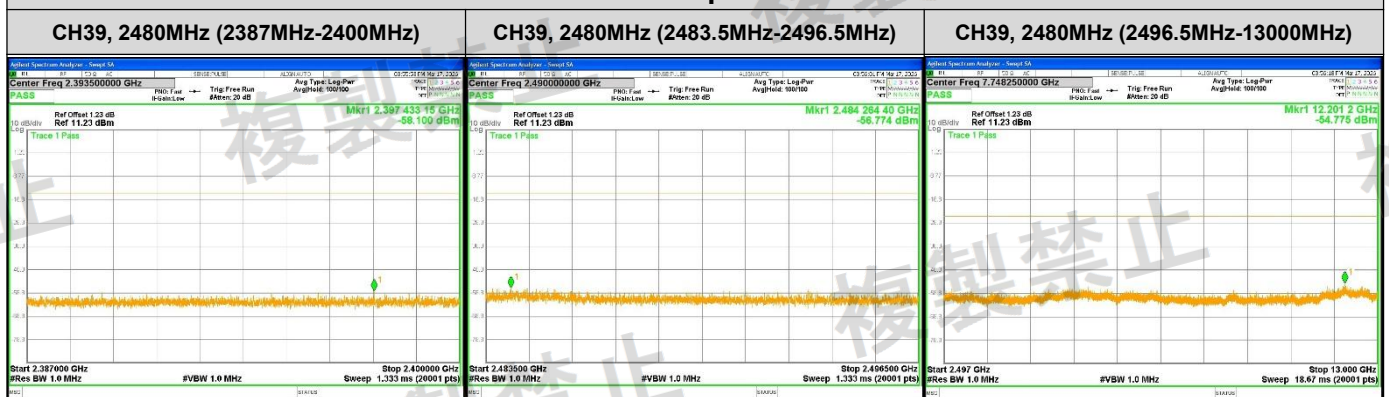
E-mail: service@morlab.cn



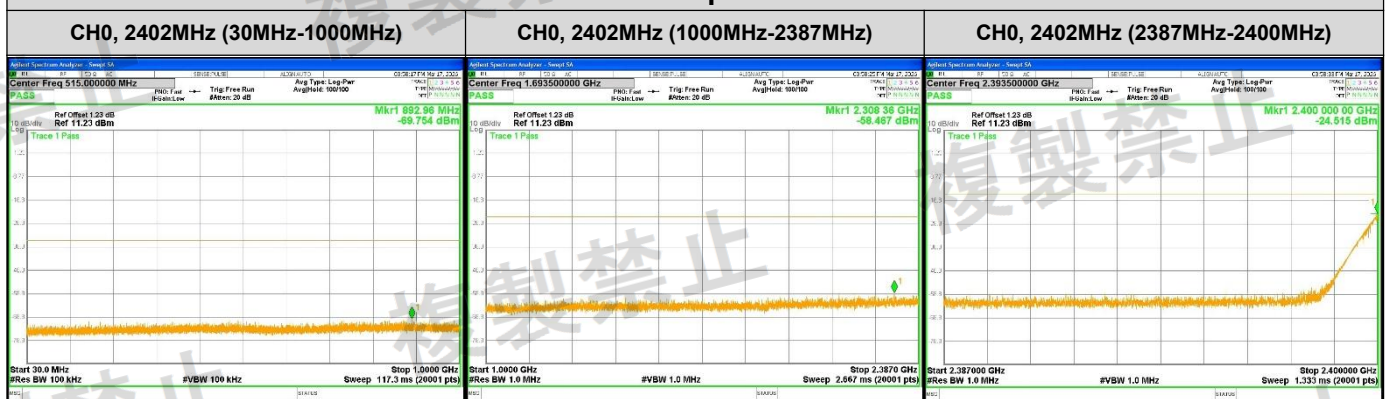
1Mbps



1Mbps

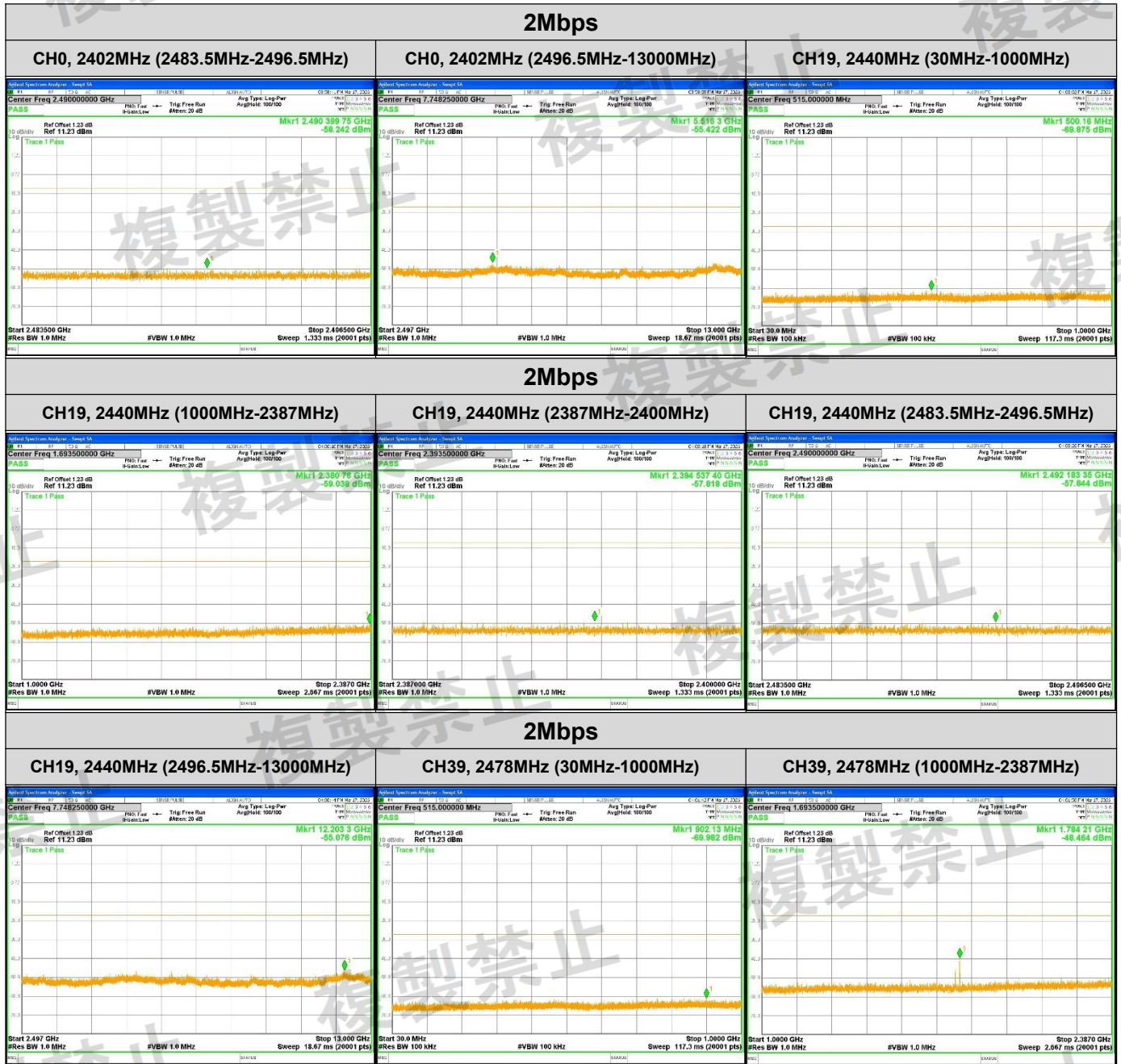


2Mbps





REPORT No.: SZ26030442W01

**MORLAB**

Shenzhen Morlab Communications Technology Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

Tel: 86-755-36698555

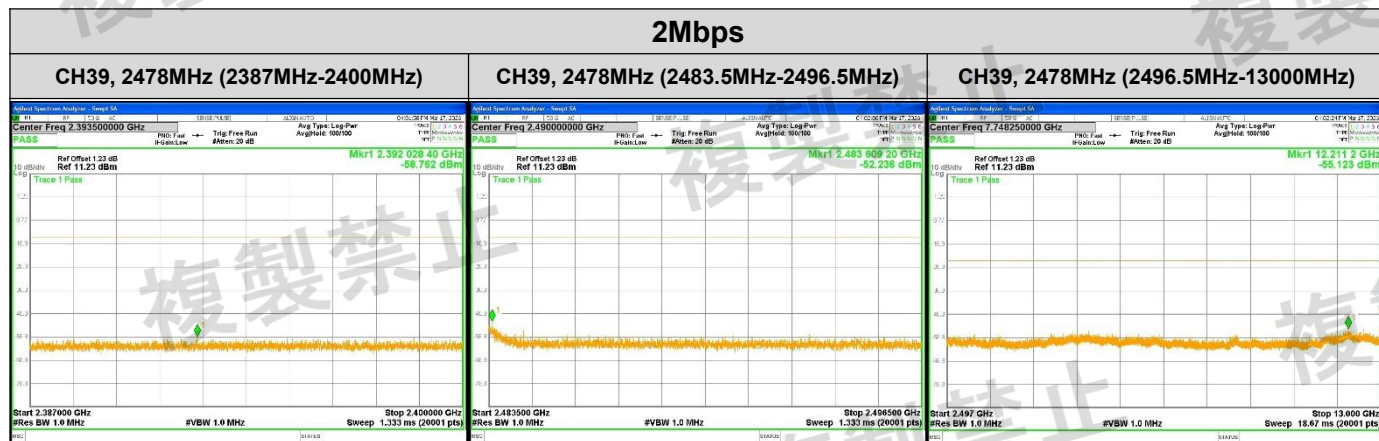
Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn



REPORT No.: SZ26030442W01



MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL 1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

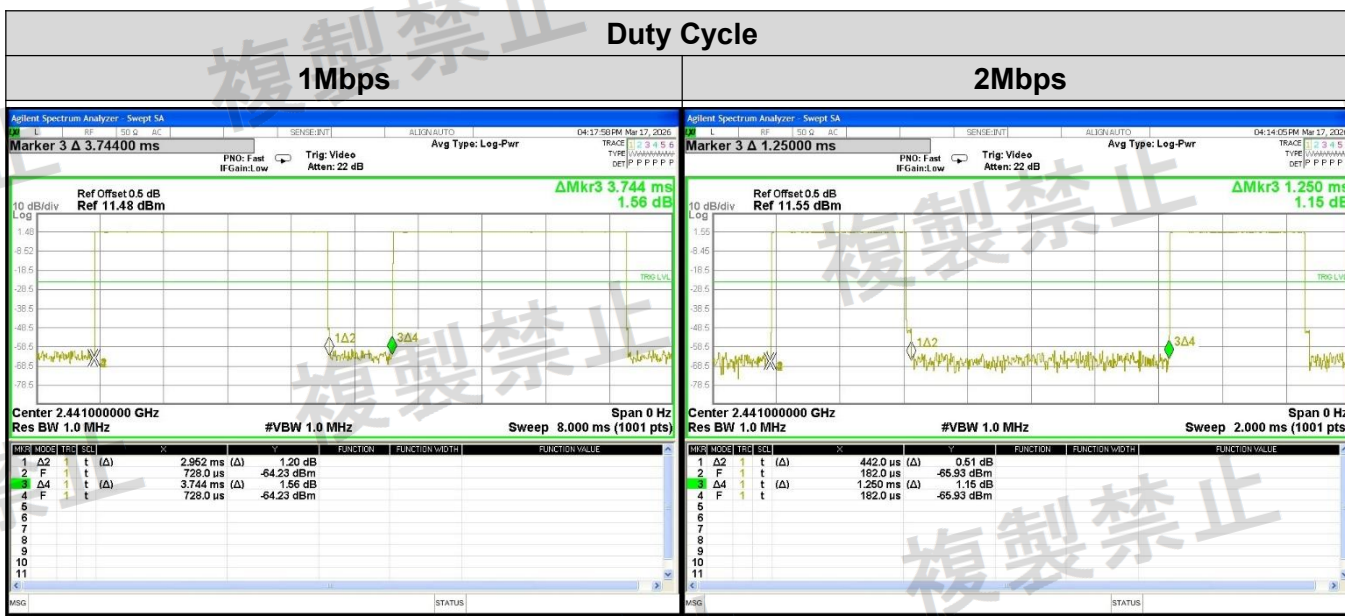
Fax: 86-755-36698525

E-mail: service@morlab.cn



A.4. Antenna Power Error

Mode	Channel	Test Value P_t (dBm)	Duty cycle	Antenna Power P (dBm)	Antenna Power P (mW)	Declare Power (mW)	Antenna Power Error	Verdict
1Mbps	2402	-1.24	0.789	-0.21	0.95	1.1	-13.40%	PASS
	2440	-1.52	0.789	-0.49	0.89	1.1	-18.80%	PASS
	2480	-1.47	0.789	-0.44	0.90	1.1	-17.86%	PASS
2Mbps	2402	-3.67	0.354	0.84	1.21	1.1	10.31%	PASS
	2440	-3.98	0.354	0.53	1.13	1.1	2.71%	PASS
	2480	-3.87	0.354	0.64	1.16	1.1	5.34%	PASS



A.5. Limitation of Collateral Emission of Receiver

Mode	Frequency Range (MHz)	Test Result Value	Limit	Verdict
------	-----------------------	-------------------	-------	---------



REPORT No.: SZ26030442W01

Mode	Frequency Range (MHz)	Test Result Value	Limit	Verdict
Receive	30~1000	Refer to below plot	4nW/100kHz	PASS
	1000~12500		20nW/MHz	PASS

Test data

Test Mode	Freq.(MHz)	Max Value (dBm)	Max Value	Limit	Verdict
BLE 1M	CH0 2402MHz (30MHz-1000MHz)	-89.84	0.0010	<=4	PASS
BLE 1M	CH0 2402MHz (1000MHz-13000MHz)	-75.34	0.0292	<=20	PASS
BLE 1M	CH0 2440MHz (30MHz-1000MHz)	-90.45	0.0009	<=4	PASS
BLE 1M	CH0 2440MHz(1000MHz-13000MHz)	-76.19	0.0240	<=20	PASS
BLE 1M	CH0 2480MHz (30MHz-1000MHz)	-90.64	0.0009	<=4	PASS
BLE 1M	CH39 2480MHz(1000MHz-13000MHz)	-75.92	0.0256	<=20	PASS
BLE 2M	CH0 2402MHz (30MHz-1000MHz)	-90.09	0.0010	<=4	PASS
BLE 2M	CH0 2402MHz (1000MHz-13000MHz)	-75.45	0.0285	<=20	PASS
BLE 2M	CH0 2440MHz (30MHz-1000MHz)	-90.46	0.0009	<=4	PASS
BLE 2M	CH0 2440MHz(1000MHz-13000MHz)	-76.68	0.0215	<=20	PASS
BLE 2M	CH0 2478MHz (30MHz-1000MHz)	-90.63	0.0009	<=4	PASS
BLE 2M	CH39 2478MHz(1000MHz-13000MHz)	-76.15	0.0243	<=20	PASS

1Mbps

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL 1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , Guangdong Province, P. R. China

Tel: 86-755-36698555

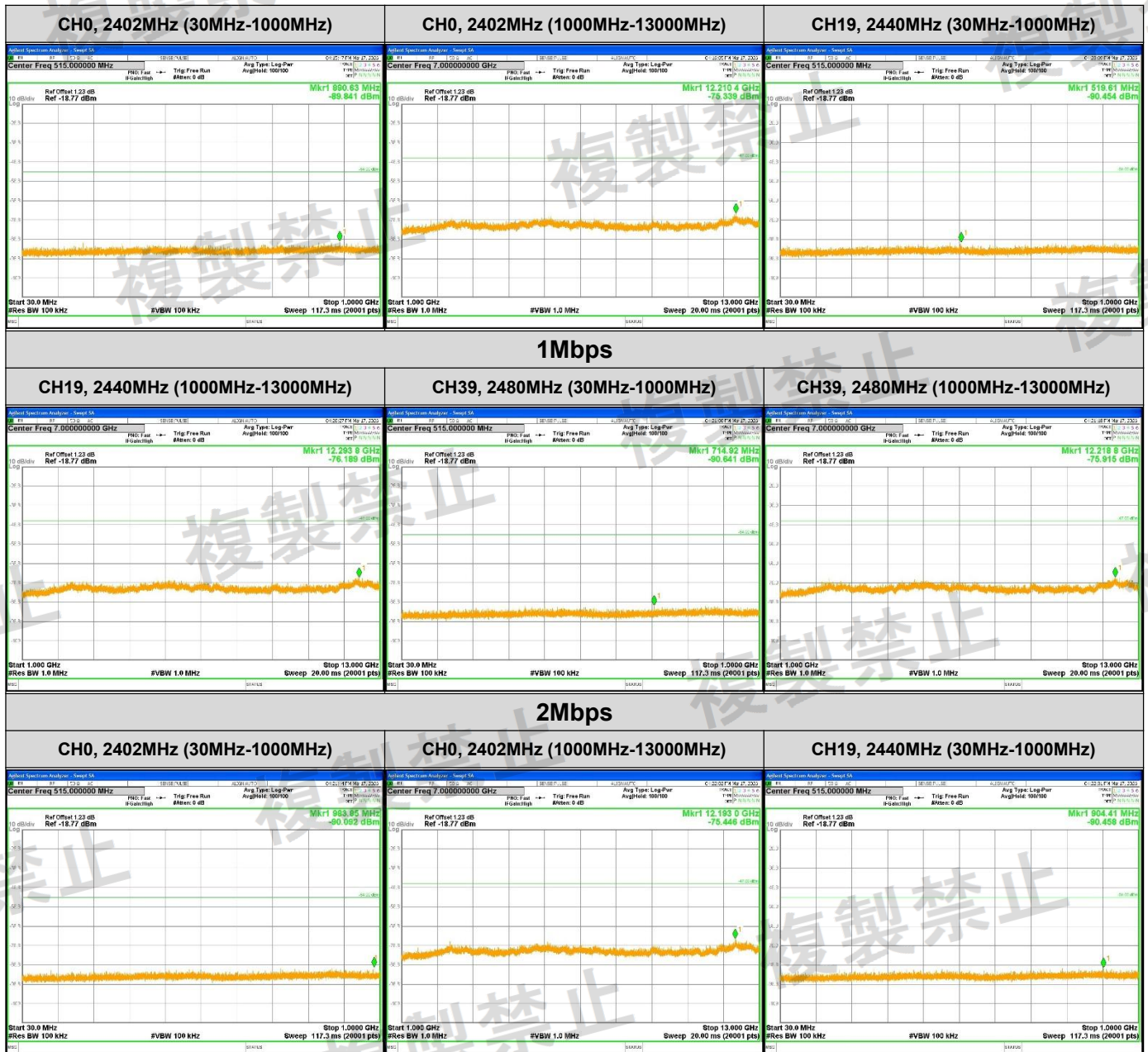
Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn



REPORT No.: SZ26030442W01



2Mbps

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

Tel: 86-755-36698555

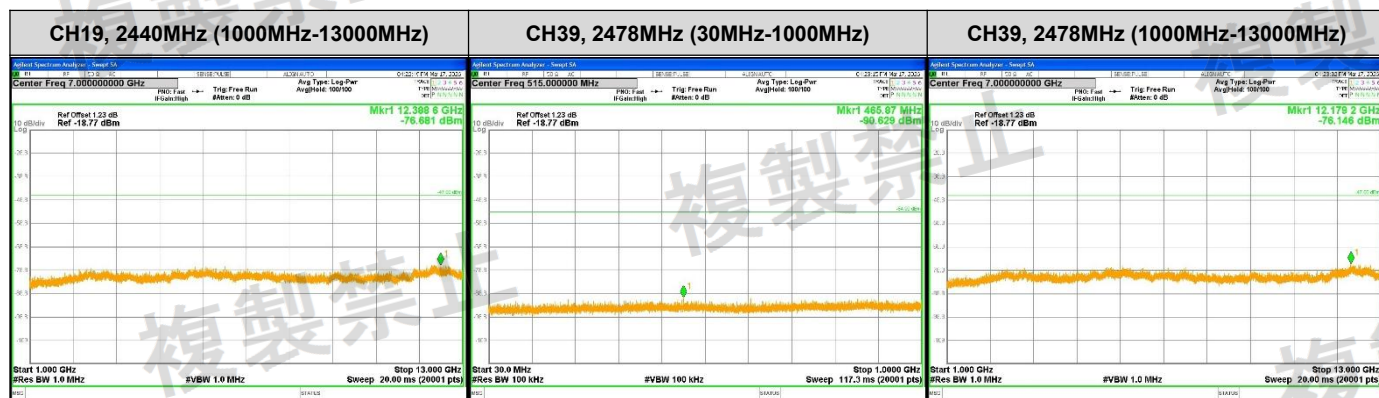
Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn



REPORT No.: SZ26030442W01



A.6. E.I.R.P.

Condition	Mode	Frequency (MHz)	Antenna Power (dBm)	Gain (dBi)	EIRP Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	-0.21	2.7	2.49	12.14	Pass

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL 1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn



REPORT No.: SZ26030442W01

NVNT	BLE 1M	2440	-0.49	2.7	2.21	12.14	Pass
NVNT	BLE 1M	2480	-0.44	2.7	2.26	12.14	Pass
NVNT	BLE 2M	2402	0.84	2.7	3.54	12.14	Pass
NVNT	BLE 2M	2440	0.53	2.7	3.23	12.14	Pass
NVNT	BLE 2M	2480	0.64	2.7	3.34	12.14	Pass

A.7. Radiation Angle of Antenna

1Mbps

Channel	Frequency	Measured E.I.R.P. (dBm)	3dB Beamwidth (Degree)	Limit (Degree)	Verdict
0	2402 MHz	2.49	86	360	PASS

MORLAB

Shenzhen Morlab Communications Technology Co., Ltd.
FL 1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Http://www.morlab.cn

Fax: 86-755-36698525

E-mail: service@morlab.cn



REPORT No.: SZ26030442W01

19	2440 MHz	2.21	78	360	PASS
39	2480 MHz	2.26	82	360	PASS

2Mbps

Channel	Frequency	Measured E.I.R.P. (dBm)	3dB Beamwidth (Degree)	Limit (Degree)	Verdict
0	2402 MHz	3.54	89	360	PASS
19	2440 MHz	3.23	94	360	PASS
39	2480 MHz	3.34	91	360	PASS

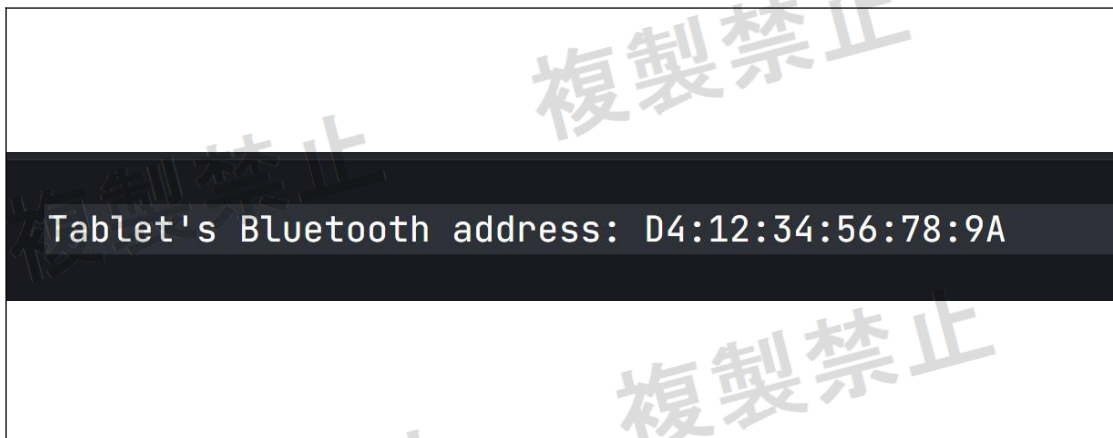
Note: This test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less.



REPORT No.: SZ26030442W01

A.8. Radio Interference Prevention Capability

The identification code of the EUT is: D4:12:34:56:78:9A



_____ END OF REPORT _____