

JAPAN SPECIFIED RADIO EQUIPMENT TEST REPORT

For

Data Collector

Model: PPM D1J_101

Data Applies To: PPM D1J_100

Trade Name:



Issued to

Delta Electronics, Inc.

**No. 39, Section 2, Huandong Road, Shanhua District, Tainan City 741014,
Taiwan**

Issued by

Compliance Certification Services Inc.

Tainan Lab.

**No. 168, Ln. 523, Sec. 3, Zhongzheng Rd.,
Rende Dist., Tainan City, 717017, Taiwan**

Issued Date: February 26, 2026

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REVISION HISTORY

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	February 26, 2026	Initial Issue	ALL	Gina Lin
01	February 11, 2026	See the following note rev.01		Polly Wang
02	January 05, 2024	See the following note rev.02		Gina Lin

Note:

- ※ Rev.00 Issue Date: February 11, 2026
Original Report
- ※ Rev.01 Issue Date: February 11, 2026
Revised the typo.
Remove Spread-spectrum Bandwidth in WLAN IEEE 802.11b.

TABLE OF CONTENTS

1. TEST RESULT CERTIFICATION	4
2. SUMMARY OF TEST RESULTS	5
2.1 WLAN IEEE 802.11B (CH1~CH13)	5
2.2 WLAN IEEE 802.11G (CH1~CH13)	7
2.3 WLAN IEEE 802.11N HT20 (CH1~CH13)	9
3. EUT DESCRIPTION	11
4. TEST METHODOLOGY & CONDITIONS	12
4.1 TEST CONDITIONS	12
4.2 DESCRIPTION OF TEST MODES	12
4.3 RF SHIELDING METHOD	13
4.4 SETUP OF EQUIPMENT UNDER TEST	14
5. INSTRUMENT AND CALIBRATION	15
5.1 MEASURING INSTRUMENT CALIBRATION	15
5.2 TEST AND MEASUREMENT EQUIPMENT	15
5.3 MEASUREMENT UNCERTAINTY	16
5.4 CALIBRATION	17
6. TEST RESULT FOR IEEE 802.11B (CH1~CH13)	18
6.1 FREQUENCY ERROR	18
6.2 ANTENNA POWER	20
6.3 SPURIOUS EMISSIONS INTENSITY	21
6.4 OCCUPIED BANDWIDTH (99%)	31
6.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER	33
7. TEST RESULT FOR IEEE 802.11G (CH1~CH13)	35
7.1 FREQUENCY ERROR	35
7.2 ANTENNA POWER	37
7.3 SPURIOUS EMISSIONS INTENSITY	38
7.4 OCCUPIED BANDWIDTH (99%)	50
7.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER	52
8. TEST RESULT FOR IEEE 802.11N HT20(CH1~CH13)	54
8.1 FREQUENCY ERROR	54
8.2 ANTENNA POWER	56
8.3 SPURIOUS EMISSIONS INTENSITY	57
8.4 OCCUPIED BANDWIDTH (99%)	69
8.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER	71
9. INTERFERENCE PREVENTION FUNCTION	73
9.1 MEASUREMENT SYSTEM DIAGRAM	73
9.2 MEASUREMENT PROCEDURE	73
9.3 TEST RESULT: THE UNIT DOES MEET THE REQUIREMENTS	73
APPENDIX 1 - PHOTOGRAPHS OF TEST SETUP	74
APPENDIX 2 - PHOTOGRAPHS OF EUT	75

1. TEST RESULT CERTIFICATION

Applicant: Delta Electronics, Inc.
No. 39, Section 2, Huandong Road, Shanhua District,
Tainan City 741014, Taiwan

Manufacturer: Delta Electronics, Inc.
No. 39, Section 2, Huandong Road, Shanhua District,
Tainan City 741014, Taiwan

Equipment Under Test: Data Collector

Trade Name: 

Model Number: PPM D1J_101

Data Applies To: Data Applies To: PPM D1J_100

Detailed EUT Description: See Item 2 of this report

Date of Test: February 04, 2026

EUT Receive Date: January 22, 2026

APPLICABLE STANDARDS	
CLASSIFICATION	TEST RESULT
ARIB STD T-66 Ver.3.7	No non-compliance noted

Statements of Conformity
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in ARIB STD T-66 Ver.3.7. 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:

John Chen

John Chen
Supervisor

2. SUMMARY OF TEST RESULTS

2.1 WLAN IEEE 802.11b (CH1~CH13)

APPLIED STANDARD: ARIB STD T-66 Ver.3.7			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	6.1	Frequency Error	PASS
6	6.4	Occupied Bandwidth	PASS
7	6.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	6.2	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	3	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	6.6	Limitation of Collateral Emission of Receiver	PASS
26	3	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 2400~2483MHz			
49.20(1);a	4.4	RF Shielding Method	PASS
49.20(1);a	3	Communication Method	PASS
49.20(1);b	3	Spread-spectrum Method	PASS
49.20(1);c	6.2	Antenna Power	PASS
49.20(1);d	-	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS
49.20(1);e	-	Hopping Frequency Dwell Time (FH employed)	-
-	-	Interference Prevention Function	PASS

Test method: According to MIC Notice No. 88 Annex 43

Test Report

Test Date	2026/2/4
Test Location	SGS Compliance Certification Services Inc. No.168, Ln 523, Sec 3, Zhongzheng Rd., Dist, Tainan City 717017, Taiwan
Temp. / Humid.	23°C / 58%
Test Conducted By	
Name	Ted.Huang
Department	RF Testing Department

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	PPM D1J_100	Temp. / Humid.	23°C / 58%
	Type of Emission	G1D	Serial No.		Test Conducted By	
	Modulation Type	DSSS	Antenna Power	6.5[mW/MHz]	Name	Ted.Huang
	Frequency	2412 ~ 2472 MHz (5MHz separation 13CH)			Department	RF Testing Department

2. Test Results

Test Voltage	V	Normal Voltage (12V)			High Voltage + 10 % (13.2 V)			Low Voltage - 10 % (10.8 V)			Limit
Test Frequency	MHz	2412.00	2442.00	2472.00							
Measured Frequency	MHz	2411.96980	2441.96950	2471.96920							
Frequency Error	ppm	-12.52	-12.49	-12.46							±50 ppm within
Occupied Bandwidth	MHz	14.004	14.002	14.000							26 MHz or below
Spurious Emission Intensity	※1 μ W/MHz	0.00497	0.00180	0.00675							2.5 μ W/MHz or below
	※2 μ W/MHz	0.12685	0.01522	0.00411							2.5 μ W/MHz or below
	※3 μ W/MHz	1.41221	0.02992	0.01000							25 μ W/MHz or below
	※4 μ W/MHz	0.01111	0.02764	1.14130							25 μ W/MHz or below
	※5 μ W/MHz	0.00868	0.01183	0.09491							2.5 μ W/MHz or below
Antenna Power (EIRP)	dBm	10.66095	10.57095	10.70095							Antenna Gain : b mode = 2.7[dBi]
Antenna Power (Conductive)	mW/MHz	6.25310	6.12485	6.31096							10 mW/MHz or below
Antenna Power Error	mW	-0.24690	-0.37515	-0.18904							
Antenna Power Tolerance	%	-3.80	-5.77	-2.91							+ 20%
A-factor	※8 A	0.71	0.70	0.72							A = EIRP (in mW) / 16.37
	※9 degrees	360.00	360.00	360.00							360/A
Limitation of Collateral Emission of Receiver	※6 nW/MHz	0.12924									4 nW or below
	※7 nW/MHz	3.86189									20 nW or below
Hopping Frequency Dwell Time	sec										
Radio Interference Prevention Function	ID Code	MAC Address (00-e0-4c-81-96-C1)									
	Carrier Sense										

※1: Frequency Band 1 (30MHz ~ less than 1,000MHz)

※4: Frequency Band 4 (more than 2,483.5MHz ~ 2,496.5GHz)

※7: Frequency Band 7 (1,000MHz ~ 12.5GHz)

※2: Frequency Band 2 (1,000MHz ~ less than 2,387MHz)

※5: Frequency Band 5 (2,496.5MHz ~ less than 12.5GHz)

※8 A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mW

※3: Frequency Band 3 (2,387MHz ~ 2,400MHz)

※6: Frequency Band 6 (30MHz ~ 1,000MHz)

※9 The calculated A is smaller than 1 by definition A becomes 1.

2.2 WLAN IEEE 802.11g (CH1~CH13)

APPLIED STANDARD: ARIB STD T-66 Ver.3.7			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	7.1	Frequency Error	PASS
6	7.4	Occupied Bandwidth	PASS
7	7.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	7.2	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	4.5	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	7.6	Limitation of Collateral Emissions of Receiver	PASS
26	3	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 2400~2483MHz			
49.20(1);a	4.4	RF Shielding Method	PASS
49.20(1);a	3	Communication Method	PASS
49.20(1);b	-	Spread-spectrum Method	PASS
49.20(1);c	7.2	Antenna Power	PASS
49.20(1);d	-	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS
49.20(1);e	7.5	Diffusion Bandwidth	PASS
49.20(1);f	-	Spreading Factor	PASS
49.20(1);g	-	Hopping Frequency Dwell Time (FH employed)	-
-	-	Interference Prevention Function	PASS

Test method: According to MIC Notice No. 88 Annex 43

Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	PPM D1J_100	Test Date	2026/2/4
	Type of Emission	D1D	Serial No.		Test Location	SGS Compliance Certification Services Inc., No.168,Ln 523, Sec 3, Zhongzheng Rd., Dist, Tainan City 717017, Taiwan
	Modulation Type	OFDM	Antenna Power	3[mW/MHz]	Temp. / Humid.	23°C / 58%
	Frequency	2412 ~ 2472 MHz (5MHz separation 13CH)			Test Conducted By	
					Name	Ted.Huang
					Department	RF Testing Department

2. Test Results

Testing for Electrical Specification	Test Voltage	V	Normal Voltage (12V)			High Voltage + 10 % (13.2 V)			Low Voltage - 10 % (10.8 V)			Limit
	Test Frequency	MHz	2412.00	2442.00	2472.00							
	Measured Frequency	MHz	2411.97000	2441.96960	2471.96930							
	Frequency Error	ppm	-12.44	-12.45	-12.42							±50 ppm within
	Occupied Bandwidth	MHz	16.488	16.522	16.511							26 MHz or below
	Spurious Emission Intensity	※1 μW/MHz	0.00554	0.00536	0.00347							2.5 uW/MHz or below
		※2 μW/MHz	1.17869	0.03942	0.00491							2.5 uW/MHz or below
		※3 μW/MHz	2.29615	0.17571	0.01336							25 uW/MHz or below
		※4 μW/MHz	0.18239	0.23578	3.56369							25 uW/MHz or below
		※5 μW/MHz	0.01017	0.01982	0.74508							2.5 uW/MHz or below
	Antenna Power (EIRP)	dBm	7.34095	7.42095	7.65095							Antenna Gain : g mode = 2.7[dBi]
	Antenna Power (Conductive)	mW/MHz	2.91135	2.96548	3.12676							10 mW/MHz or below
	Antenna Power Error	mW	-0.08865	-0.03452	0.12676							
	Antenna Power Tolerance	%	-2.95	-1.15	4.23							+ 20%
	A-factor	※8 A	0.33	0.34	0.36							A = EIRP (in mW) / 16.37
		※9 degrees	360.00	360.00	360.00							360/A
	Limitation of Collateral Emission of Receiver	※6 nW/MHz	0.12829									4 nW or below
		※7 nW/MHz	3.49623									20 nW or below
	Hopping Frequency Dwell Time	sec										
	Radio Interference Prevention Function	ID Code	MAC Address (00-e0-4c-81-96-C1)									
		Carrier Sense										

※1: Frequency Band 1 (30MHz ~ less than 1,000MHz)

※2: Frequency Band 2 (1,000MHz ~ less than 2,387MHz)

※3: Frequency Band 3 (2,387MHz ~ 2,400MHz)

※4: Frequency Band 4 (more than 2,483.5MHz ~ 2,496.5GHz)

※5: Frequency Band 5 (2,496.5MHz ~ less than 12.5GHz)

※6: Frequency Band 6 (30MHz ~ 1,000GHz)

※7: Frequency Band 7 (1,000MHz ~ 12.5GHz)

※8 A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 mV

※9 The calculated A is smaller than 1 by definition A becomes 1.

2.3 WLAN IEEE 802.11n HT20 (CH1~CH13)

APPLIED STANDARD: ARIB STD T-66 Ver.3.7			
Standard Section	Report Section	Test Type and Limit	Test Result
General provisions			
5	8.1	Frequency Error	PASS
6	8.4	Occupied Bandwidth	PASS
7	8.3	Spurious Emissions Intensity	PASS
Transmitting equipment			
14	8.2	Antenna Power	PASS
14.2	-	SAR	-
Transmitting antenna			
20	3	Type, Configuration, etc., of Transmitting Antenna	PASS
22	-	Direction Pattern of Transmitting Antenna (Provided at Individual Antenna Report)	PASS
Receiving antenna			
24	8.5	Limitation of Collateral Emissions of Receiver	PASS
26	3	Refer to All Articles for Transmitting Antenna	PASS
Operating frequency 2400~2483MHz			
49.20(1);a	4.3	RF Shielding Method	PASS
49.20(1);a	3	Communication Method	PASS
49.20(1);b	-	Spread-spectrum Method	-
49.20(1);c	8.2	Antenna Power	PASS
49.20(1);d	-	Absolute Antenna Gain (Provided at Individual Antenna Report)	PASS
49.20(1);e	-	Diffusion Bandwidth	-
49.20(1);f	-	Spreading Factor	-
49.20(1);g	-	Hopping Frequency Dwell Time (FH employed)	-
-	-	Interference Prevention Function	PASS

Test method: According to MIC Notice No. 88 Annex 43

Test Report

Specified Radio Equipment	Class	Article 2 Paragraph 1 Item 19	Model	PPM D1J_100	Test Date	2026/2/4
	Type of Emission	G1D	Serial No.		Test Location	SGS Compliance Certification Services Inc. No.168,Ln 523, Sec 3, Zhongzheng Rd., Dist. Tainan City 717017, Taiwan
	Modulation Type	OFDM	Antenna Power	2[mW/MHz]	Temp. / Humid.	23°C / 58%
	Frequency	2412 ~ 2472 MHz (5MHz separation 13CH)			Test Conducted By	
					Name	Ted.Huang
					Department	RF Testing Department

2. Test Results

Testing for Electrical Specification	Test Voltage		V			Normal Voltage (12V)			High Voltage + 10 % (13.2 V)			Low Voltage - 10 % (10.8 V)			Limit	
	Test Frequency		MHz	2412.00	2442.00	2472.00										
	Measured Frequency		MHz	2411.96940	2441.96920	2471.96890										
	Frequency Error		ppm	-12.69	-12.61	-12.58									±50 ppm within	
	Occupied Bandwidth		MHz	17.571	17.575	17.562									26 MHz or below	
	Spurious Emission Intensity	※1	μW/MHz	0.00144	0.00271	0.03262									2.5 uW/MHz or below	
		※2	μW/MHz	0.31974	0.02353	0.00466									2.5 uW/MHz or below	
		※3	μW/MHz	1.80717	0.11548	0.01217									25 uW/MHz or below	
		※4	μW/MHz	0.01377	0.15153	3.40487									25 uW/MHz or below	
		※5	μW/MHz	0.00852	0.02260	0.47621									2.5 uW/MHz or below	
	Antenna Power (EIRP)		dBm	5.91095	5.83095	6.10095									Antenna Gain : N20MHz mode = 2.7[dBi]	
	Antenna Power (Conductive)		mW/MHz	2.09457	2.05634	2.18824									10 mW/MHz or below	
	Antenna Power Error		mW	0.09457	0.05634	0.18824										
	Antenna Power Tolerance		%	4.73	2.82	9.41									+ 20%	
	A-factor	※ 8	A	0.24	0.23	0.25									A = EIRP (in mW) / 16.37	
		※ 9	degrees	360.00	360.00	360.00									360/A	
	Limitation of Collateral Emission of Receiver	※ 6	nW/MHz	0.13134											4 nW or below	
		※7	nW/MHz	3.17980											20 nW or below	
	Hopping Frequency Dwell Time		sec													
	Radio Interference Prevention Function	ID Code	MAC Address (00-e0-4c-81-96-C1)													
Carrier Sense																

※1: Frequency Band 1 (30MHz ~ less than 1,000MHz)

※2: Frequency Band 2 (1,000MHz ~ less than 2,387MHz)

※3: Frequency Band 3 (2,387MHz ~ 2,400MHz)

※4: Frequency Band 4 (more than 2,483.5MHz ~ 2,496.5GHz)

※5: Frequency Band 5 (2,496.5MHz ~ less than 12.5GHz)

※6: Frequency Band 6 (30MHz ~ 1,000GHz)

※7: Frequency Band 7 (1,000MHz ~ 12.5GHz)

※ 8 A is equal to EIRP (in mW) / 16.37 .The conducted power is limited to 10 m

※ 9 The calculated A is smaller than 1 by definition A becomes 1.

3. EUT DESCRIPTION

Product	Data Collector		
Trade Name			
Model Number	PPM D1J_101		
Data Applies To	PPM D1J_100		
Difference	Model	PPM D1J_101	PPM D1J_100
	Control Type	The device has 3 type for control function to inverter	The device has 2 type for control function to inverter
	Switch marking		
Power Supply	DC 5V, 12V		
Frequency Range	IEEE 802.11b (CH1~13): 2412~2472MHz IEEE 802.11g (CH1~13): 2412~2472MHz IEEE 802.11n HT20 (CH1~13): 2412~2472MHz		
Rated Antenna Power (mW/MHz)	IEEE 802.11b (CH1~13): 6.5mW/MHz IEEE 802.11g (CH1~13): 3mW/MHz IEEE 802.11n HT20 (CH1~13): 2mW/MHz		
Measured Antenna Power (mW/MHz)	IEEE 802.11b (CH1~13): 6.31096mW/MHz IEEE 802.11g (CH1~13): 3.12676mW/MHz IEEE 802.11n HT20 (CH1~13): 2.18824mW/MHz		
Modulation Technique	IEEE 802.11b: DSSS (CCK; DQPSK; DBPSK) IEEE 802.11g: OFDM (QPSK, BPSK, 16-QAM, 64-QAM) IEEE 802.11n: OFDM(QPSK, BPSK, 16-QAM, 64-QAM)		
Number of Channels	IEEE 802.11b (CH1~13): 13 channels IEEE 802.11g (CH1~13): 13 channels IEEE 802.11nHT20 (CH1~13): 13 channels		
Antenna Specification	Dipole Antenna: 2.7 dBi		
Hardware Version	V02		
Software Version	V02		
Serial No.	N/A		

Remark:

- Client consigns only one model sample to test (Model Number: PPM D1J_101), Therefore, the testing Lab. just guarantees the unit, which has been tested and for more details, please refer to the User's manual of the EUT.

4. TEST METHODOLOGY & conditions

4.1 TEST CONDITIONS

Voltage Fluctuation Test	Normal Voltage	High Voltage + 10% of Normal Voltage	Low Voltage - 10% of Normal Voltage
Input AC Power(Vac)	100	110	90
Output DC Power(Vdc)	5	5	5
Voltage Variation (%)	-	0	0

Voltage Variation (%) = (Output High 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.

4.2 DESCRIPTION OF TEST MODES

The EUT (model: PPM D1J_101) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

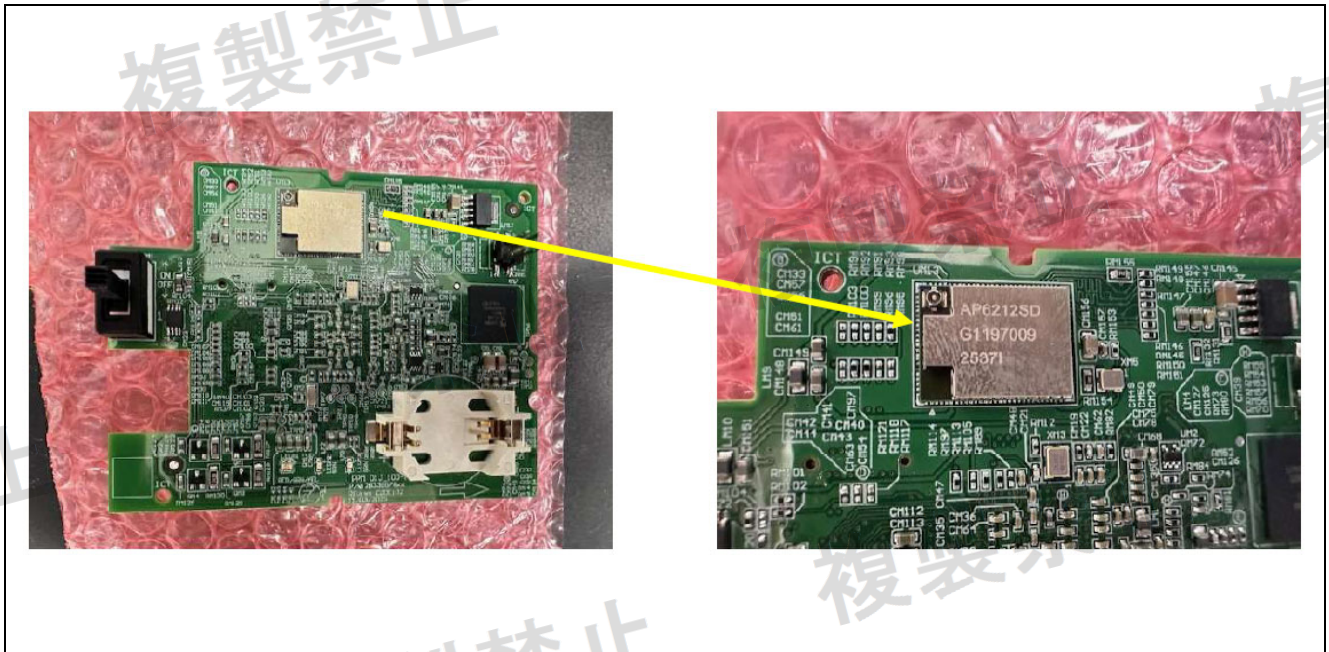
IEEE802.11b (CH1~13): Channel Low, Channel Mid and Channel High with 1Mbps data rate were chosen for full testing.

IEEE802.11g (CH1~13): Channel Low, Channel Mid and Channel High with 6Mbps data rate were chosen for full testing.

IEEE802.11n HT20 (CH1~13): Channel Low, Channel Mid and Channel High with 6.5Mbps data rate were chosen for full testing.

4.3 RF SHIELDING METHOD

The RF part is not easy accessible because the RF shielding frame is soldered to the PCB ground.



4.4 SETUP OF EQUIPMENT UNDER TEST

Setup Diagram

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

Support Equipment

No.	Product	Manufacturer	Model No.	Certify No.	Signal cable
1	Adapter	DVE	DSA-24PFS-12 FUS 120200	DOC	N/A

5. INSTRUMENT AND CALIBRATION

5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

Equipment Used for Emission Measurement

Chamber Room #1166								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	Calibration Lab.	Accreditation Organization of the Cal. Lab.	Calibration Method
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY54430216	07/24/2025	07/23/2026	ETC	TAF	c
SMA Cable+10dB Attenuator	CCS	SMA+10dB ATT	SMA/10dB	01/13/2026	01/12/2027	CCS	TAF	c
Software	Excel(ccs-o6-2020 v1.1)							

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)

5.3 MEASUREMENT UNCERTAINTY

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR 100 028-1 [2] and shall correspond to an expansion factor (coverage factor) $k = 1,96$ or $k = 2$ (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Table 6 is based on such expansion factors.

Table: Maximum measurement uncertainty

Parameter	Uncertainty
RF frequency	$\pm 1 \cdot 10^{-5}$
Total RF power conducted	$\pm 1,5$ dB
RF power density, conducted	± 3 dB
Spurious emissions, conducted	± 3 dB
All emissions, radiated	± 6 dB
Humidity	± 5 %
Temperature	$\pm 1^{\circ}\text{C}$
DC and low frequency voltages	$\pm 3\%$

5.4 CALIBRATION**WLAN IEEE 802.11b/g/11n HT20 Mode:****A Test Equipment Function Check****(1) Spectrum Analyser and Power Meter**

Signal Generator (dBm)	Spectrum Analyser (dBm)	Power Meter (dBm)	Remark
0	-11.06	-11.19	• Frequency : 2450MHz • ATT : 10dB • RLV : 0dBm • RBW, VBW : 1MHz • SP : 0Hz
-5	-16.21	-16.34	
-10	-21.03	-20.92	

Remark: For DSSS/OFDM, connect SG to SA with cable and 10dB external attenuator. Connect power meter to IF output of SA with cable.

(2) Spectrum Analyser

Signal Generator (MHz)	Spectrum Analyser (MHz)	Tolerance (Hz)	Remark
2,450.00	2,450.000500	500	• SG : -10dBm • RBW, VBW : 10kHz, SP : 100kHz

B Cable Factor Measurement

Signal Generator (MHz)	Direct Power Meter (dBm)	Cable + Att Power Meter (dBm)	Cable Factor (dB)	Remark
1,000.00	0.49	-10.35	10.84	• SG : 0dBm
2,450.00	0.20	-10.87	11.07	
5,500.00	-0.28	-11.99	11.71	
8,000.00	-0.90	-13.36	12.46	
12,500.00	-2.31	-15.83	13.52	

Remark: 1. Connect SG to power meter directly. 2. Connect SG to power meter with cable and 10dB external attenuator.

C System Corellation Factor Measurement

Signal Generator (MHz)	Spectrum Analyser (dBm)	Power Meter (dBm)	System Factor (dB)	Remark
1,000.00	-0.79	-12.65	22.70	• SG : 10dBm • RBW=1MHz • VBW=1MHz • SP=0Hz • ATT=20 dB • REF=10 dBm • SWEEP=100ms
2,450.00	-0.94	-12.81	22.94	
5,000.00	-1.93	-13.81	23.59	
8,000.00	-3.05	-14.54	23.95	
12,500.00	-3.95	-16.63	26.20	

Remark: For DSSS/OFDM, connect SG to SA with cable and 10dB external attenuator. Connect power meter to IF output of SA with cable.

6. TEST RESULT FOR IEEE 802.11b (CH1~CH13)

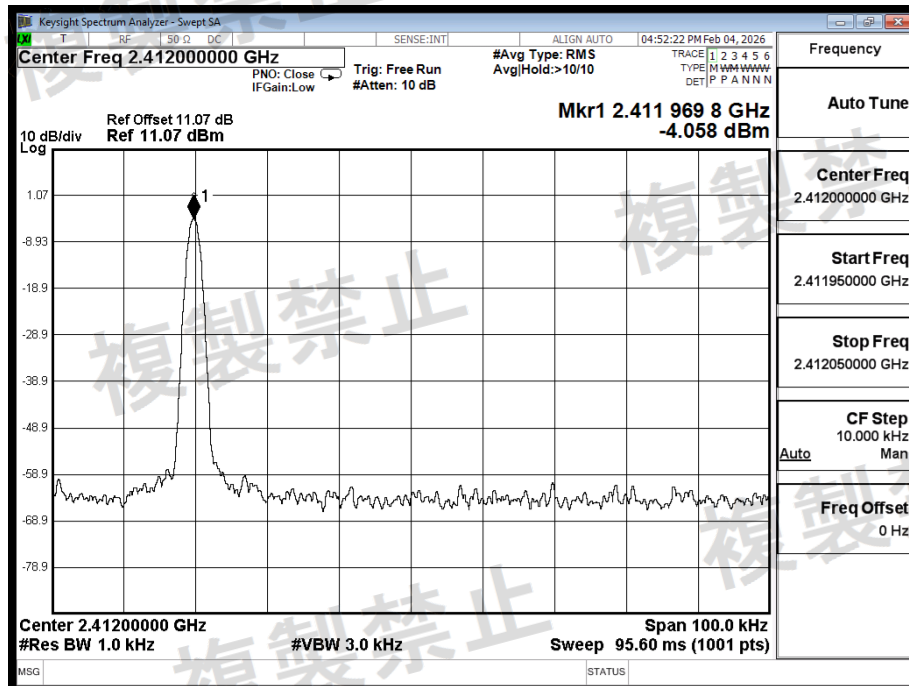
6.1 FREQUENCY ERROR

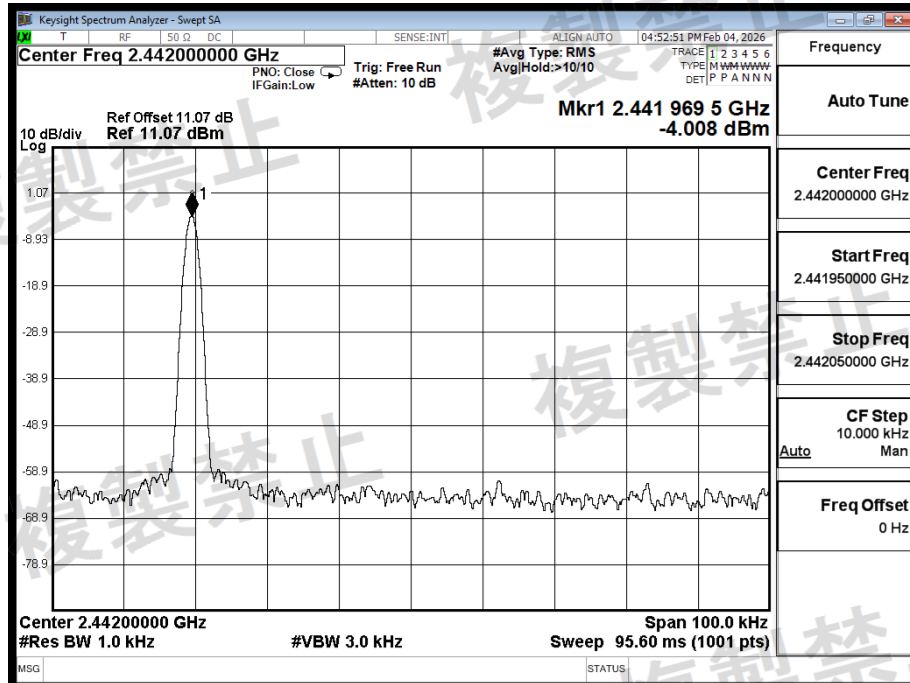
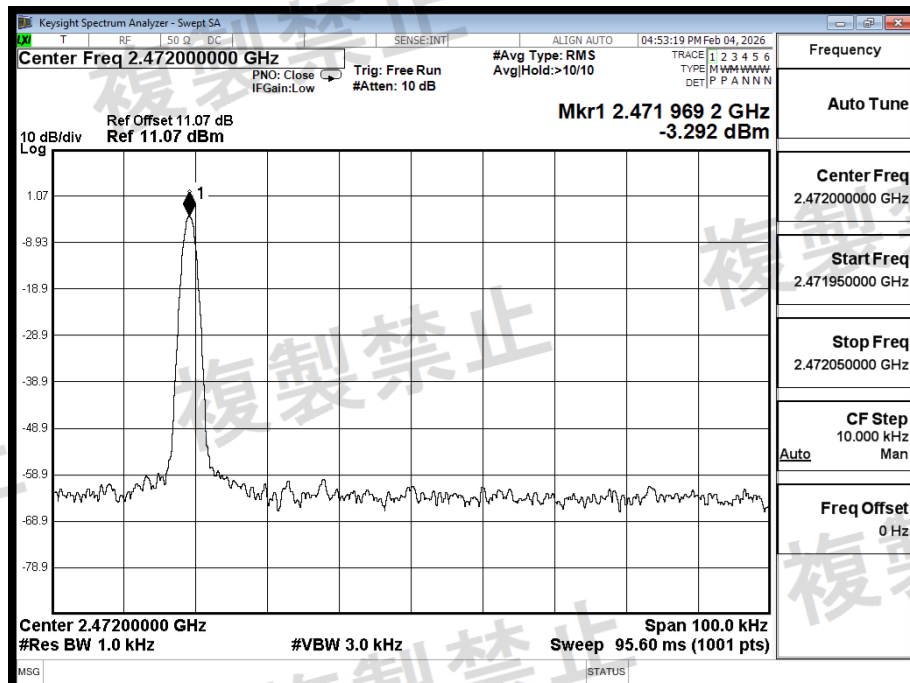
TEST RESULT

Frequency (MH z)	Reading (MH z)	Deviation (Hz)	Tolerance (ppm)	Test Result	Remark
2412.0000	2411.969800	-30200	-12.5207	PASS	Normal Voltage : DC12V
2442.0000	2441.969500	-30500	-12.4898	PASS	
2472.0000	2471.969200	-30800	-12.4595	PASS	

TEST PLOTS

CH Low



CH MidCH High

6.2 ANTENNA POWER

TEST RESULT

Equiv. Noise BW : 1.14 MH z Modulation : 1 [Mbps]

CF=fo, SPAN=2MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=20dB, ST=100ms

Frequency (MH z)	Power Meter (d B m)	System Factor (d B)	Output Power (d B m)	Output Power (mW)	Test Result	Remark
2412.0000	-14.41	22.94	7.96	6.25310	PASS	Normal Voltage : DC12V
2442.0000	-14.50	22.94	7.87	6.12485	PASS	
2472.0000	-14.37	22.94	8.00	6.31096	PASS	

(Duty Cycle)

(RBW=1MHz,VBW=1MHz,Span=0Hz)

Frequency (MH z)	ON time (ms)	OFF time (ms)	Offset Factor (d B)	Remark
2412.0000	100.000	0.000	0.00	Normal Voltage : DC12V
2442.0000	100.000	0.000	0.00	
2472.0000	100.000	0.000	0.00	

6.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz~1000MHz

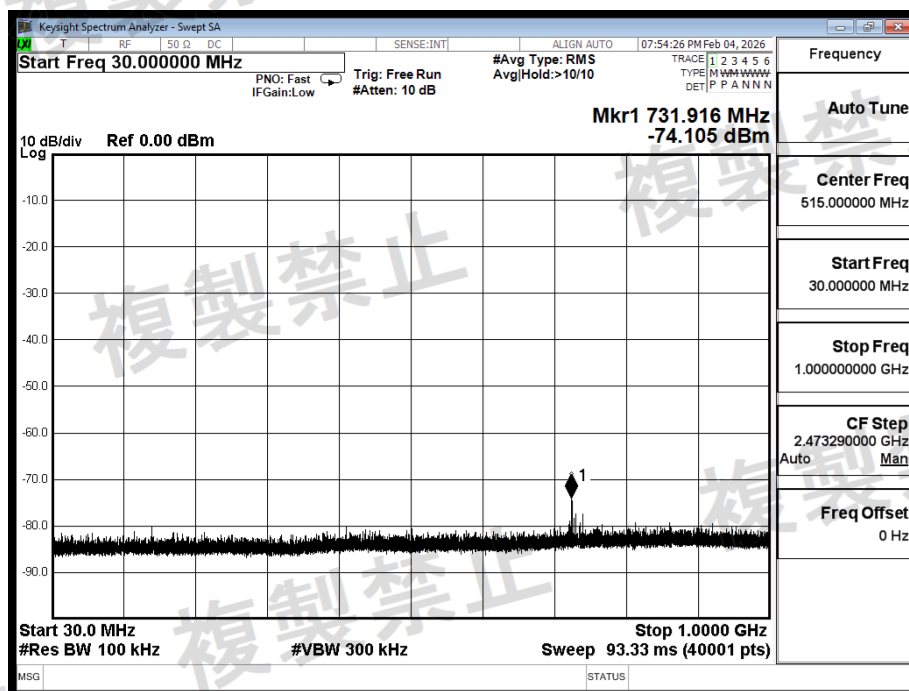
Freq: 30MHz~1,000MHz, RBW=100KHz, VBW=300KHz

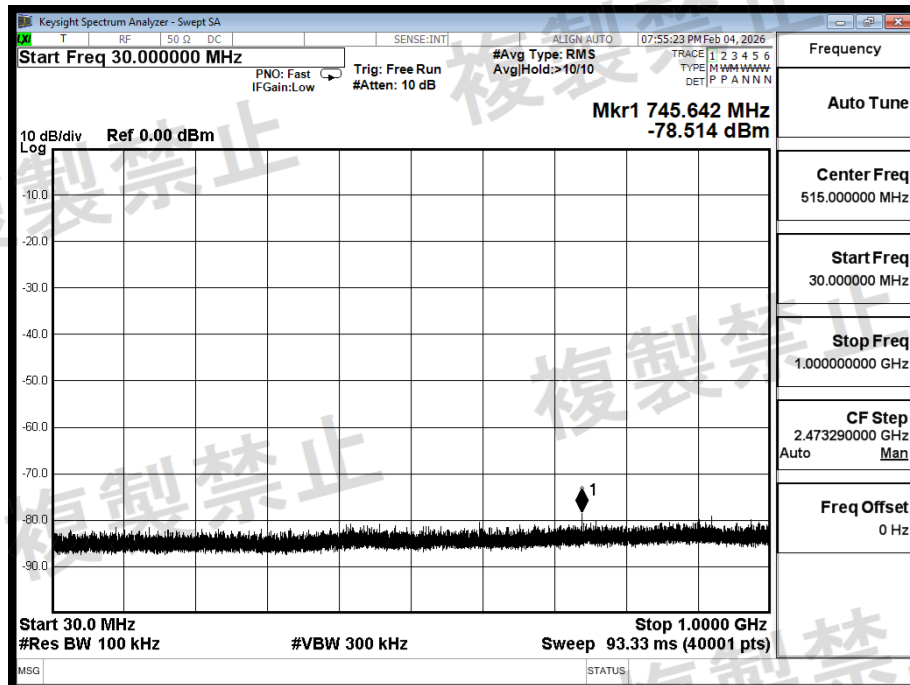
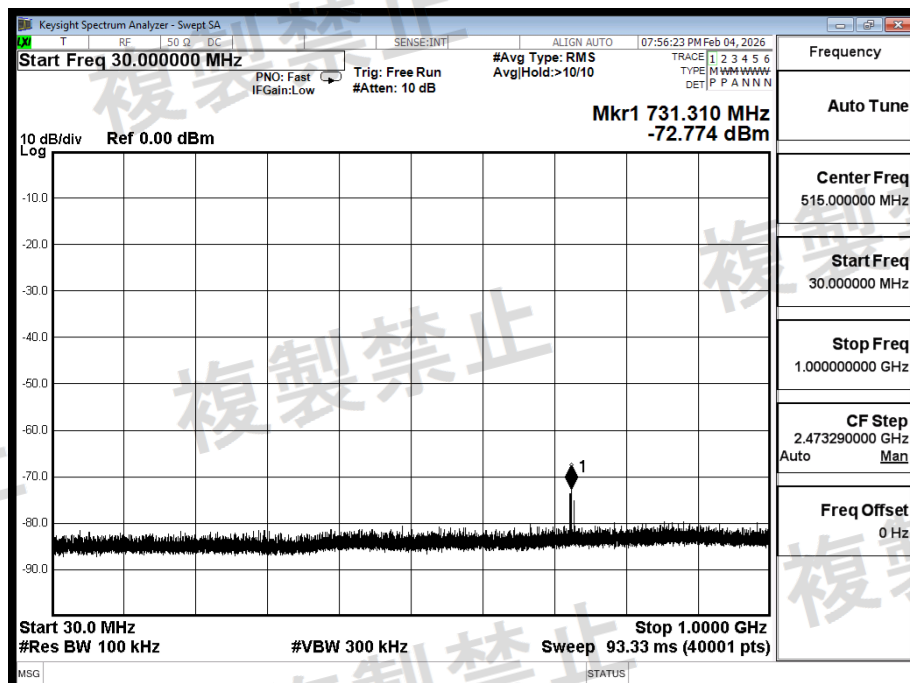
(1) Spurious Emission Intensity : 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	731.92	-74.11	11.07	0.00497	PASS	Normal Voltage : DC12V
2442.0000	745.64	-78.51	11.07	0.00180	PASS	
2472.0000	731.31	-72.77	11.07	0.00675	PASS	

TEST PLOTS

CH Low



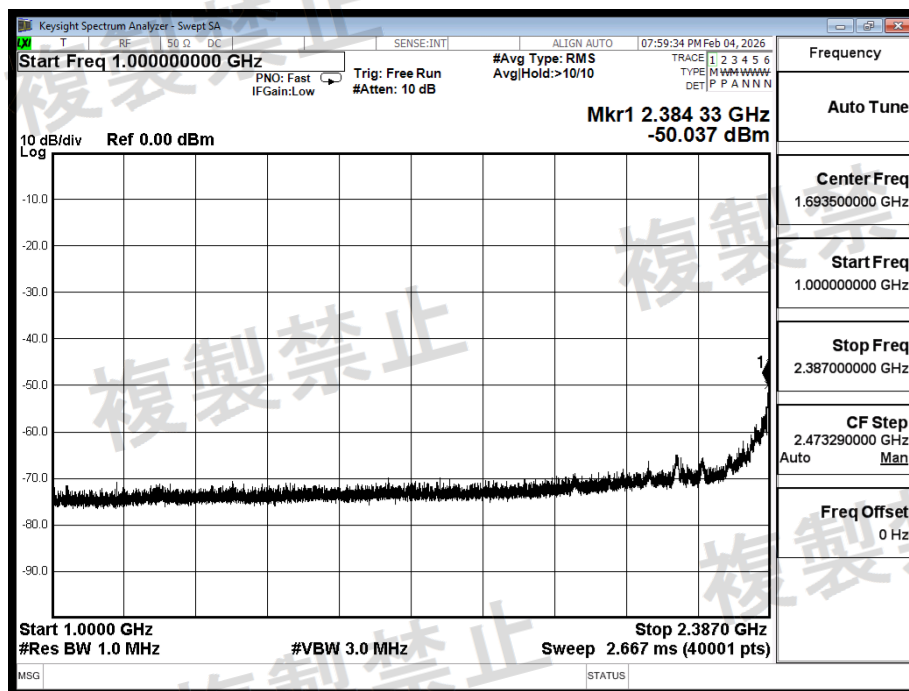
CH MidCH High

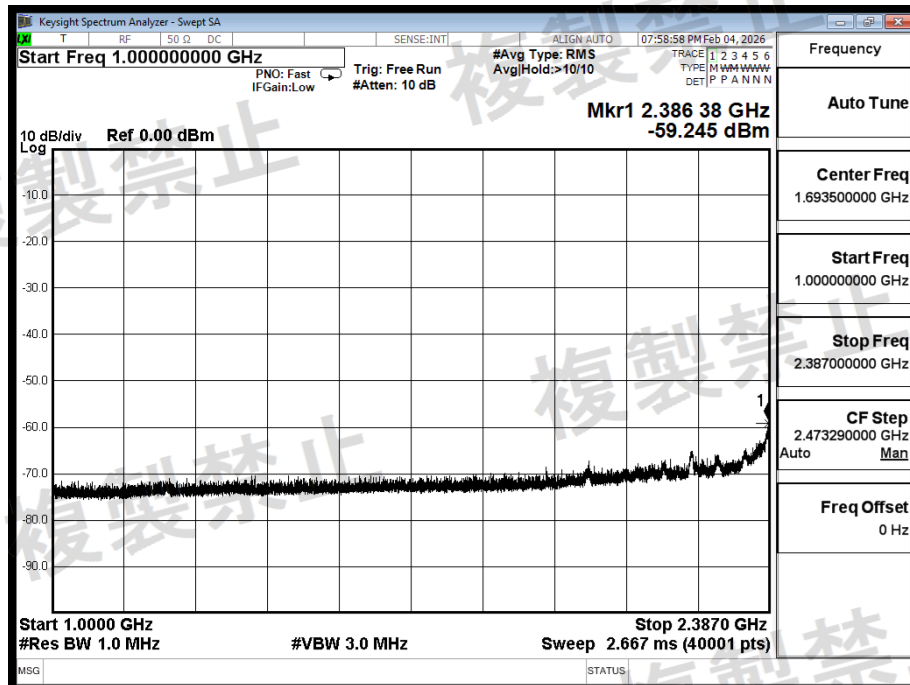
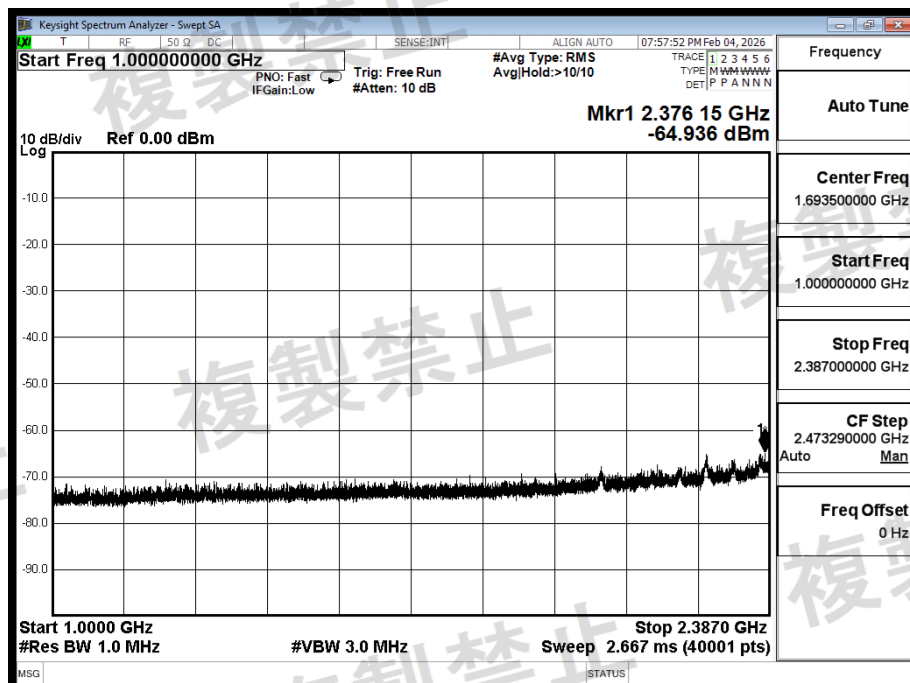
TEST RESULT**1000MHz ~ 2387MHz**

Freq: 1,000MHz~2,387MHz, RBW=1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(2) Spurious Emission Intensity : 1,000MHz~less than 2,387MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2384.3300	-50.04	11.07	0.12685	PASS	Normal Voltage : DC12V
2442.0000	2386.3800	-59.25	11.07	0.01522	PASS	
2472.0000	2376.1500	-64.94	11.07	0.00411	PASS	

TEST PLOTS**CH Low**

CH MidCH High

TEST RESULT

2387MHz ~ 2400MHz

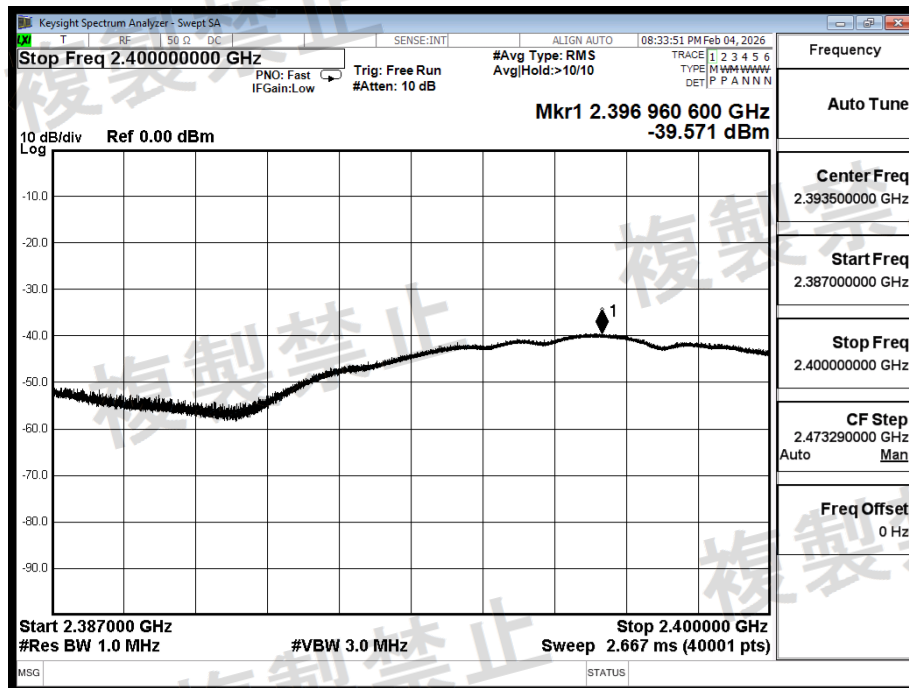
Freq: 2,387MHz~2,400MHz, RBW= 1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

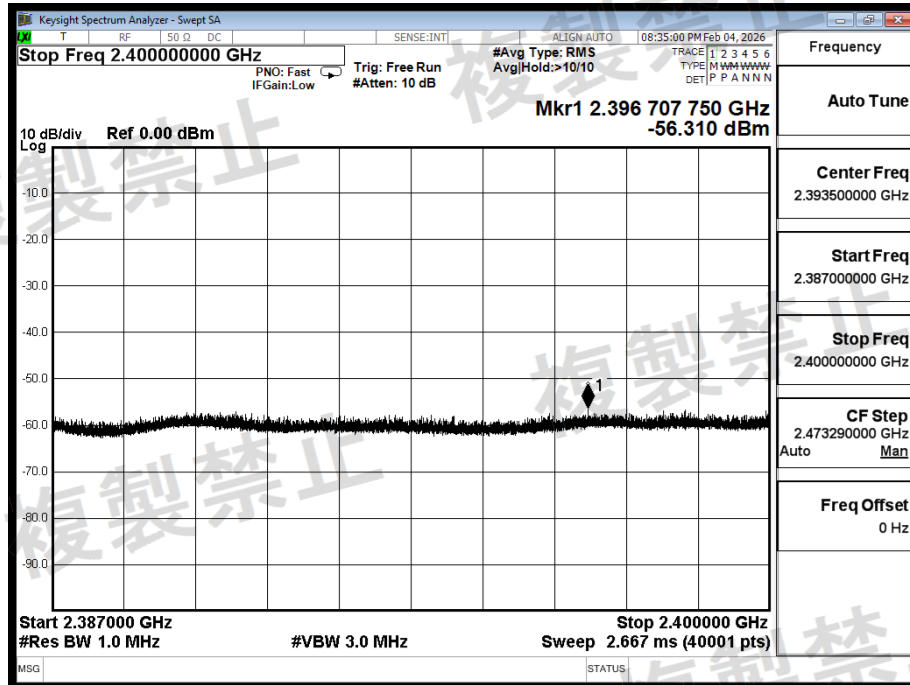
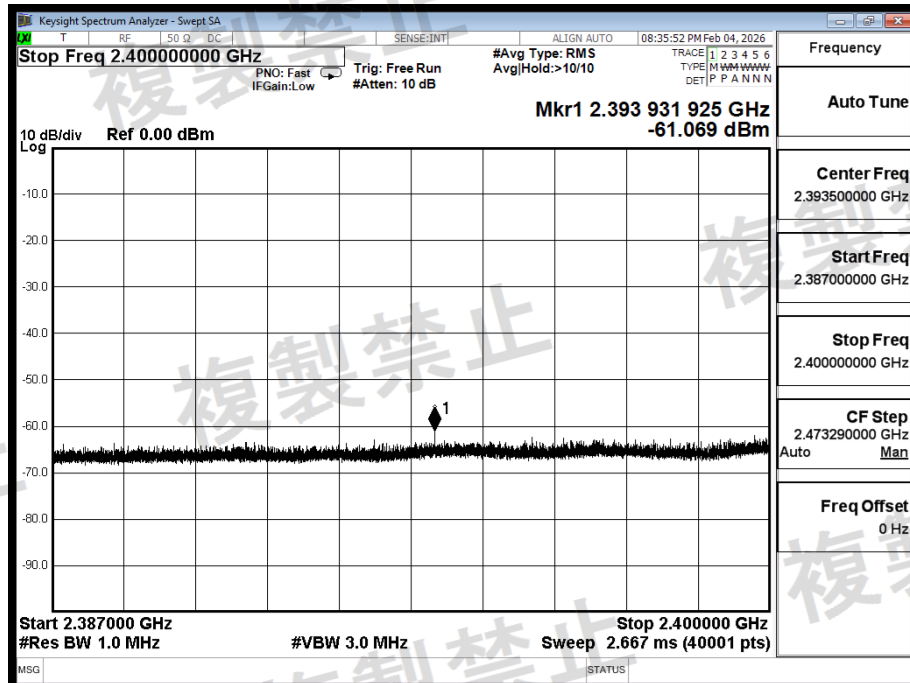
(3) Spurious Emission Intensity : 2,387MHz~less than 2,400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2396.9606	-39.57	11.07	1.41221	PASS	Normal Voltage : DC12V
2442.0000	2396.7078	-56.31	11.07	0.02992	PASS	
2472.0000	2393.9319	-61.07	11.07	0.01000	PASS	

TEST PLOTS

CH Low



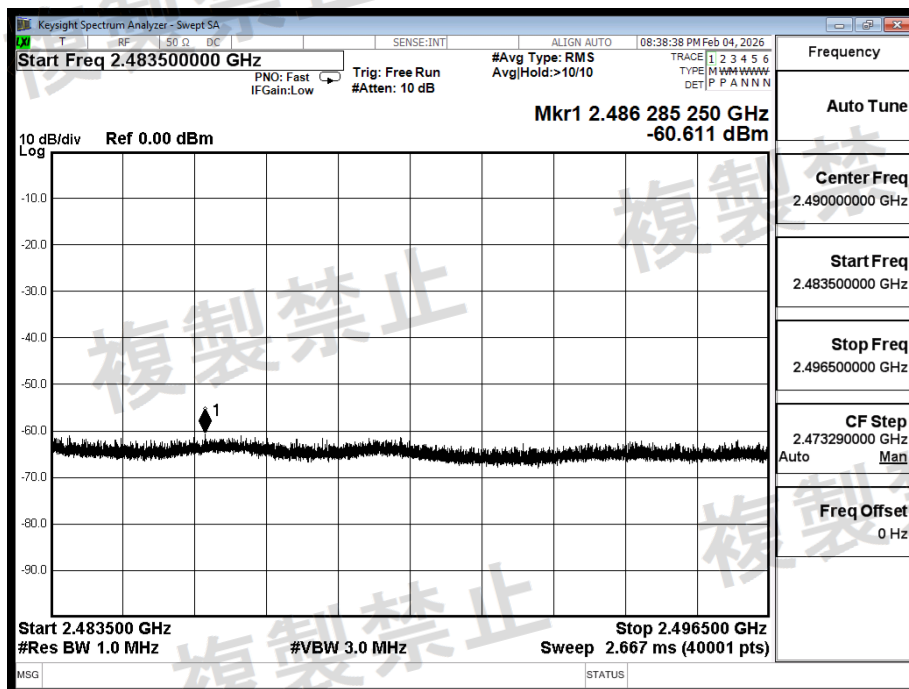
CH MidCH High

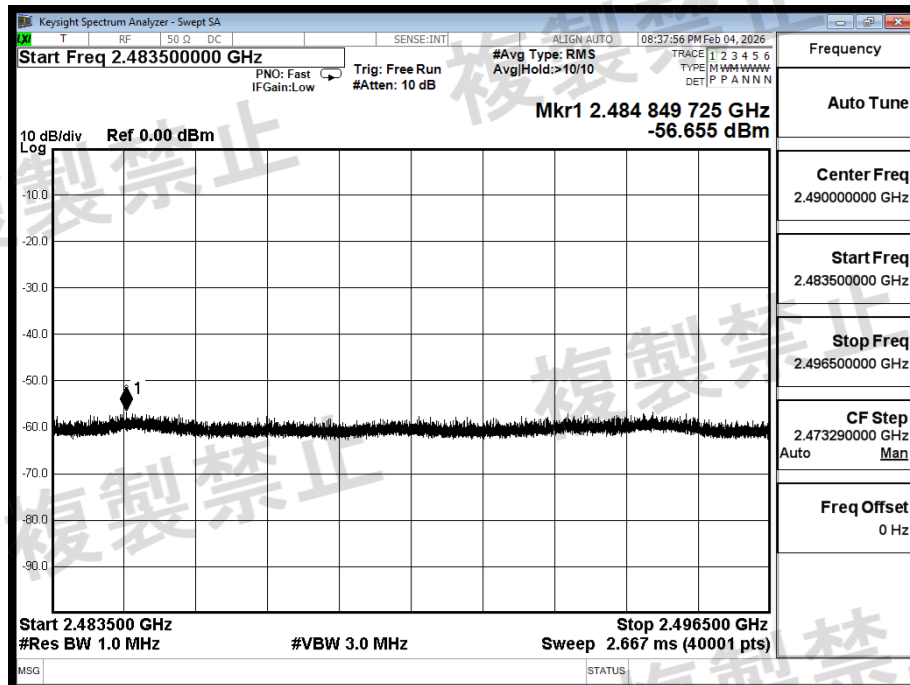
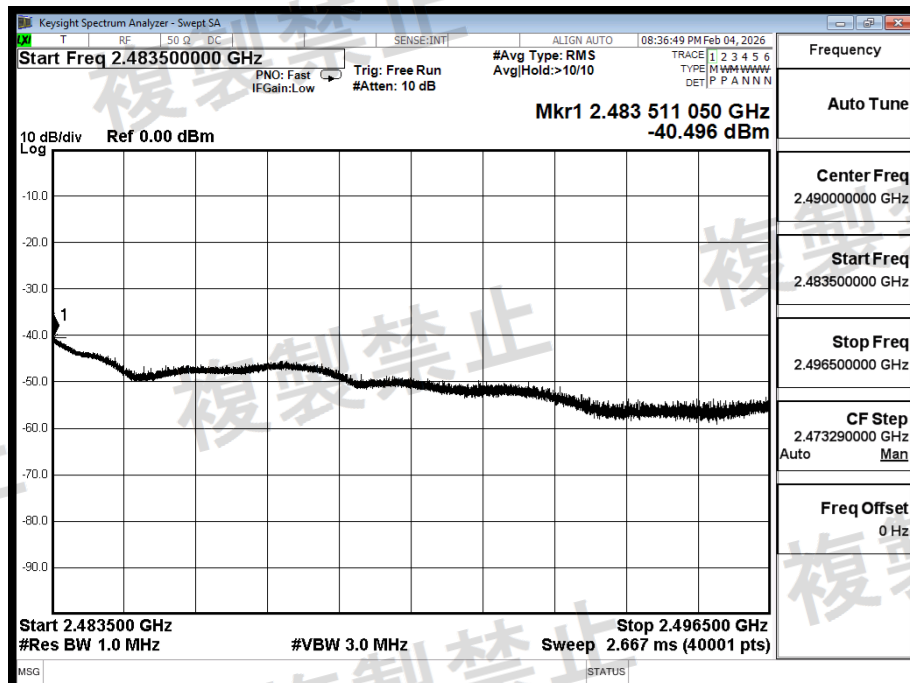
TEST RESULT**2483.5MHz ~ 2496.5MHz**

Freq: 2,483.5MHz~2,496.5MHz, RBW=1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(4) Spurious Emission Intensity : 2,483.5MHz~2,496.5MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2486.2853	-60.61	11.07	0.01111	PASS	Normal Voltage : DC12V
2442.0000	2484.8497	-56.66	11.07	0.02764	PASS	
2472.0000	2483.5111	-40.50	11.07	1.14130	PASS	

TEST PLOTS**CH Low**

CH MidCH High

TEST RESULT

2496.5MHz ~ 12.5GHz

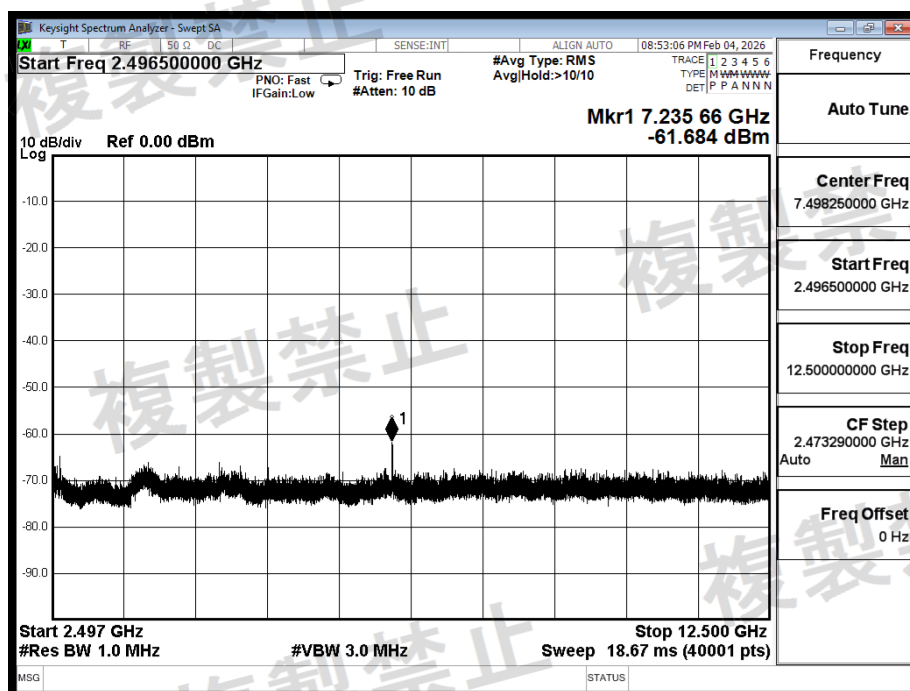
Freq: 2,496.5MHz~12.5GHz, RBW=1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

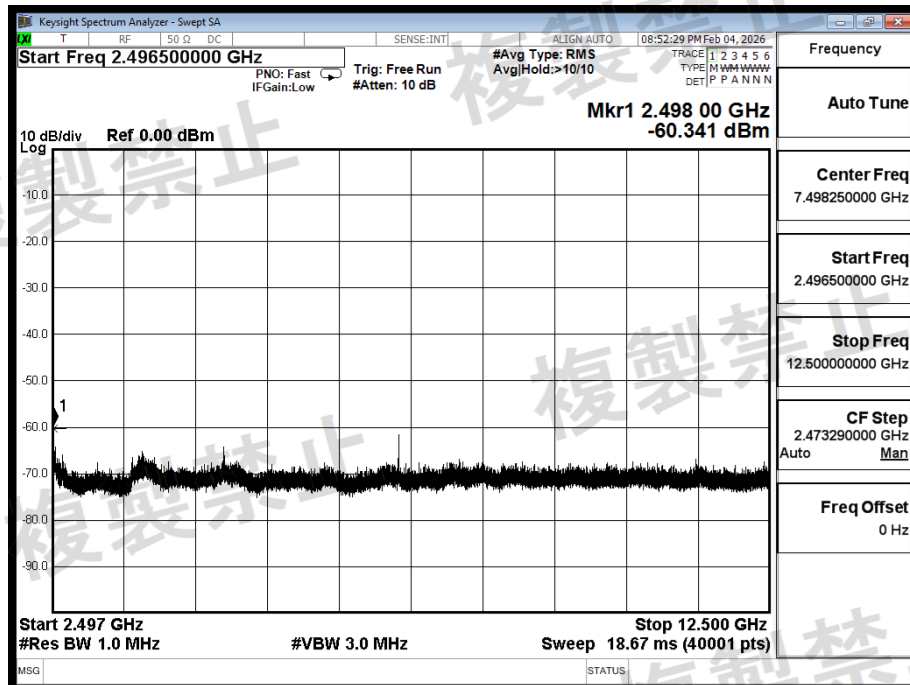
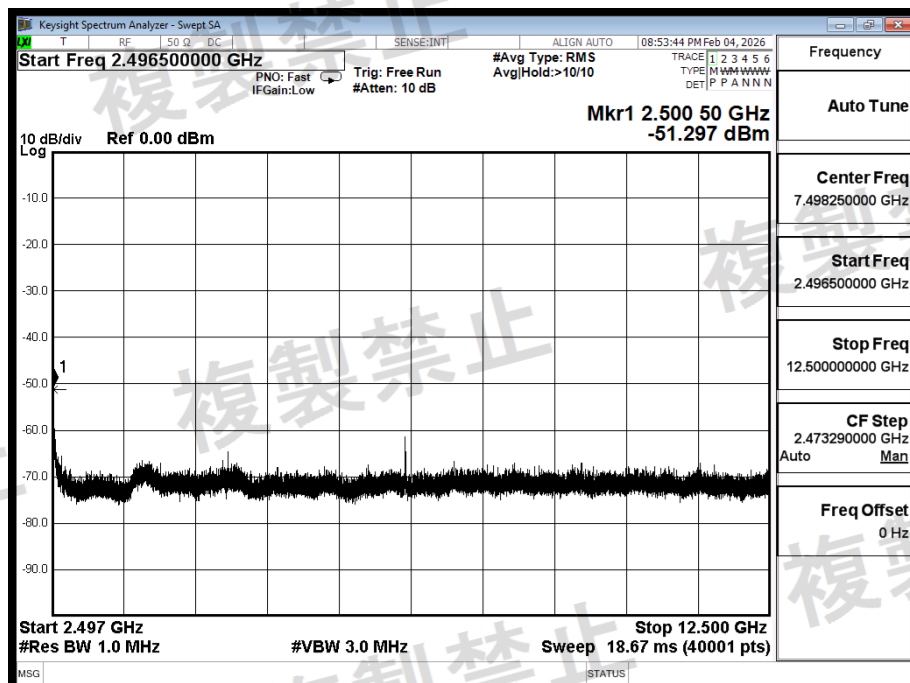
(5) Spurious Emission Intensity : more than 2,496.5MHz~12.5GHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	7235.6600	-61.68	11.07	0.00868	PASS	Normal Voltage : DC12V
2442.0000	2498.0000	-60.34	11.07	0.01183	PASS	
2472.0000	2500.5000	-51.30	11.07	0.09491	PASS	

TEST PLOTS

CH Low



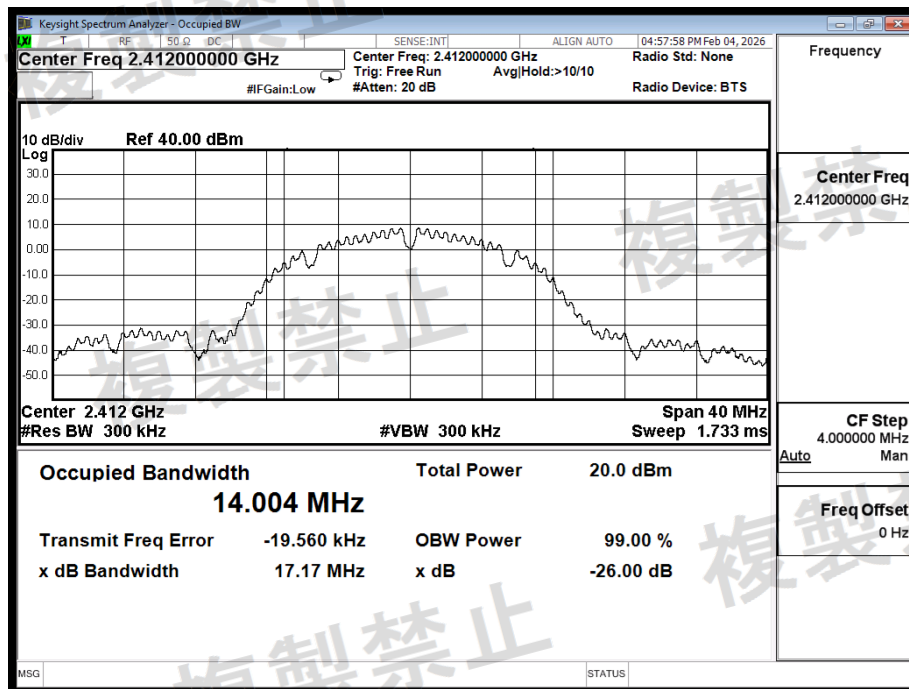
CH MidCH High

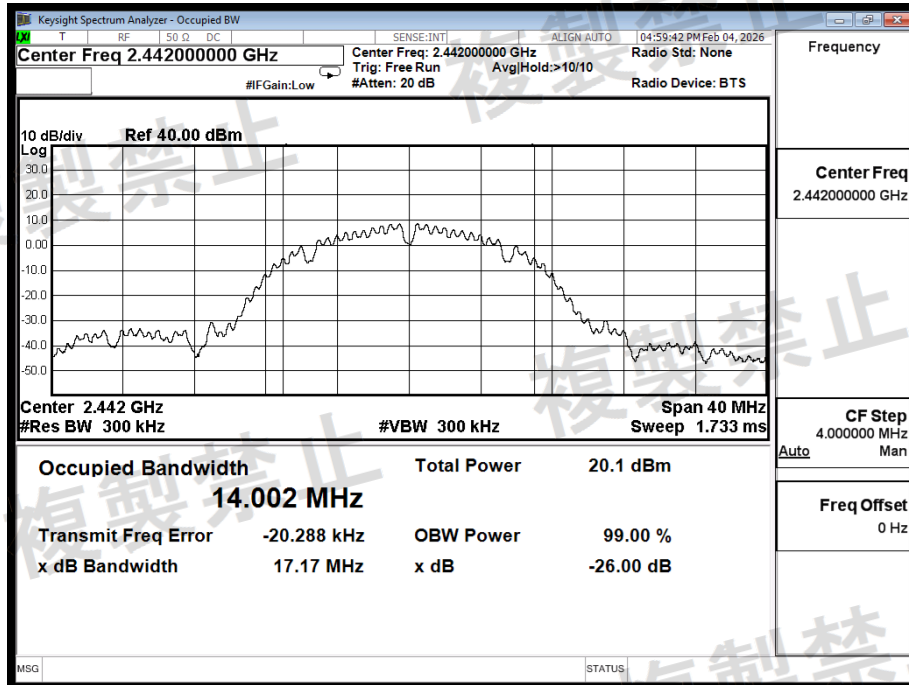
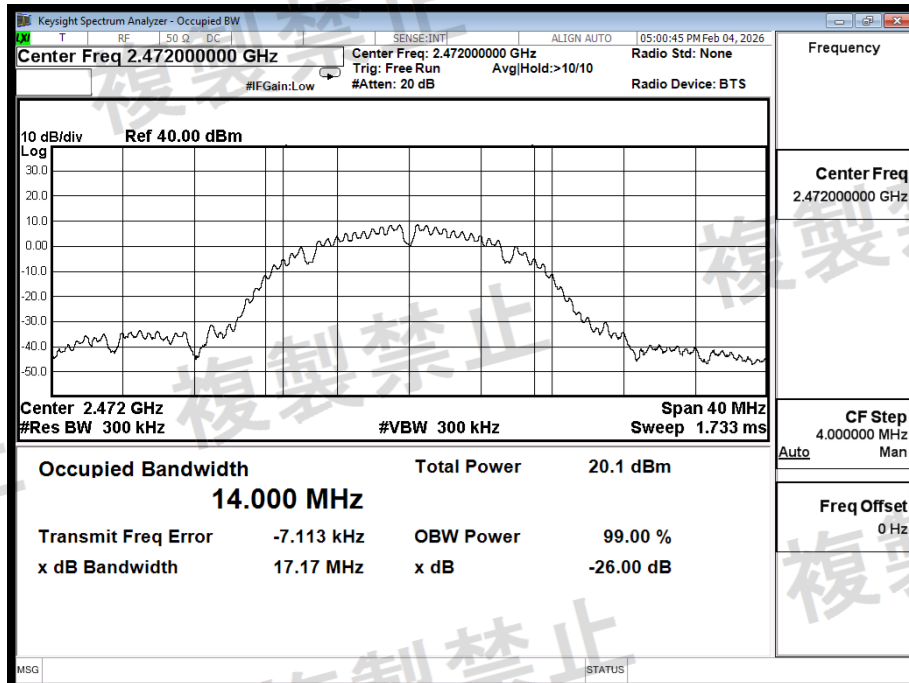
6.4 OCCUPIED BANDWIDTH (99%)**TEST RESULT**

CF=fo, SPAN=30MHz, RBW=VBW=300kHz, RLV=0dB, ATT=10dB, ST=auto

Modulation : 1 [Mbps]

Frequency (MHz)	Bandwidth (MHz)	Test Result	Remark
2412.0000	14.00	PASS	Normal Voltage : DC12V
2442.0000	14.00	PASS	
2472.0000	14.00	PASS	

TEST PLOTS**CH Low**

CH MidCH High

Report No.: TMTN2601000082NR

6.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

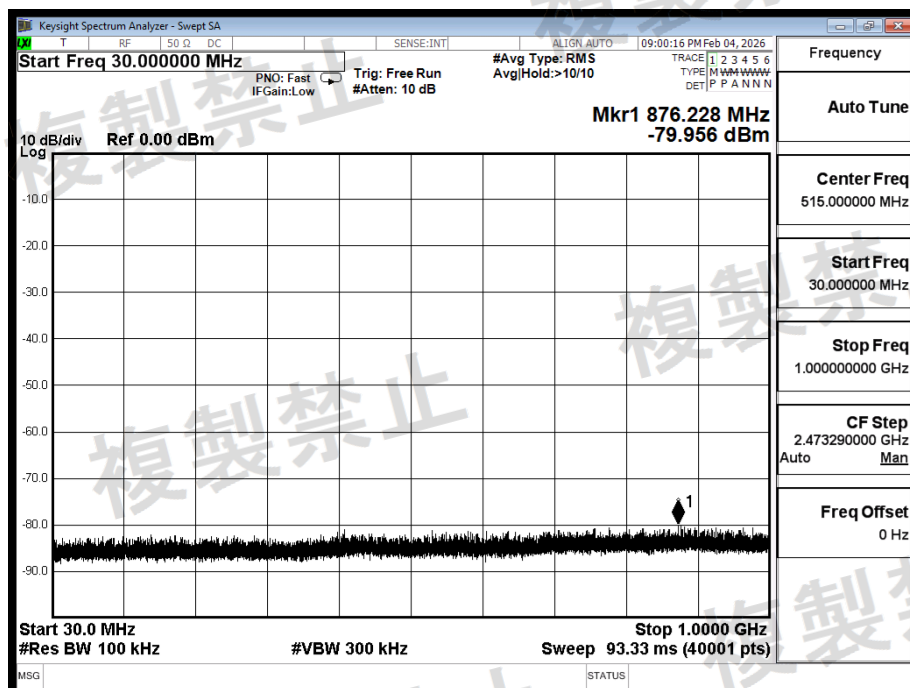
TEST RESULT

30MHz~1000MHz

Freq: 30MHz~1GHz, RBW=100KHz VBW=300KHz, RLV=0dB, ATT=10dB, ST=auto

Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (nW/MHz)	Test Result	Remark
876.23	-79.96	11.07	0.1292	PASS	Normal Voltage : DC12V

TEST PLOTS

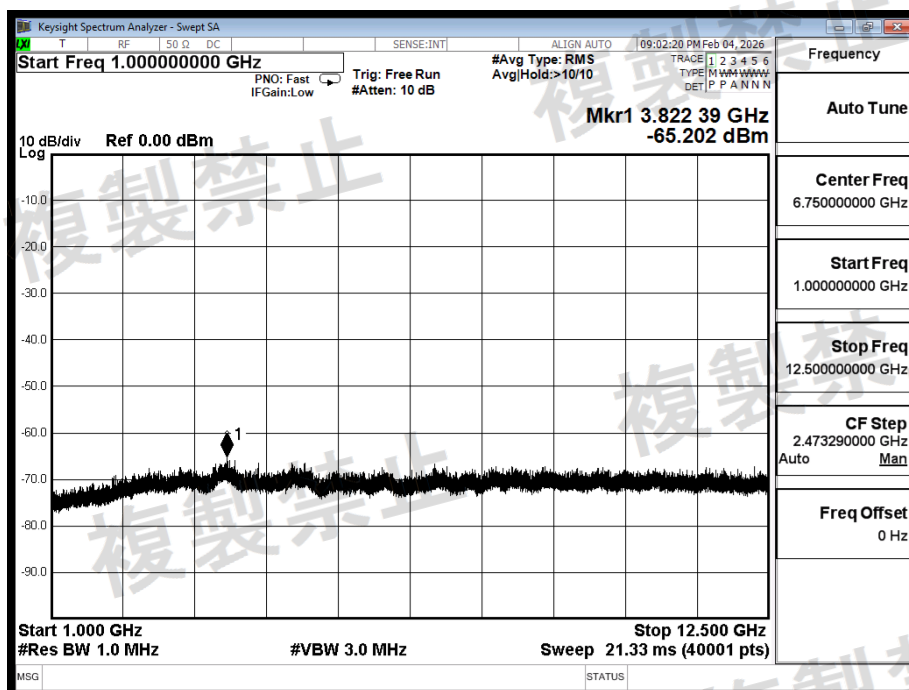


1GHz~12.5GHz

Freq: 1GHz~12.5GHz, RBW=1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (nW/MHz)	Test Result	Remark
3822.39	-65.20	11.07	3.8619	PASS	Normal Voltage : DC12V

TEST PLOTS



7. TEST RESULT FOR IEEE 802.11g (CH1~CH13)

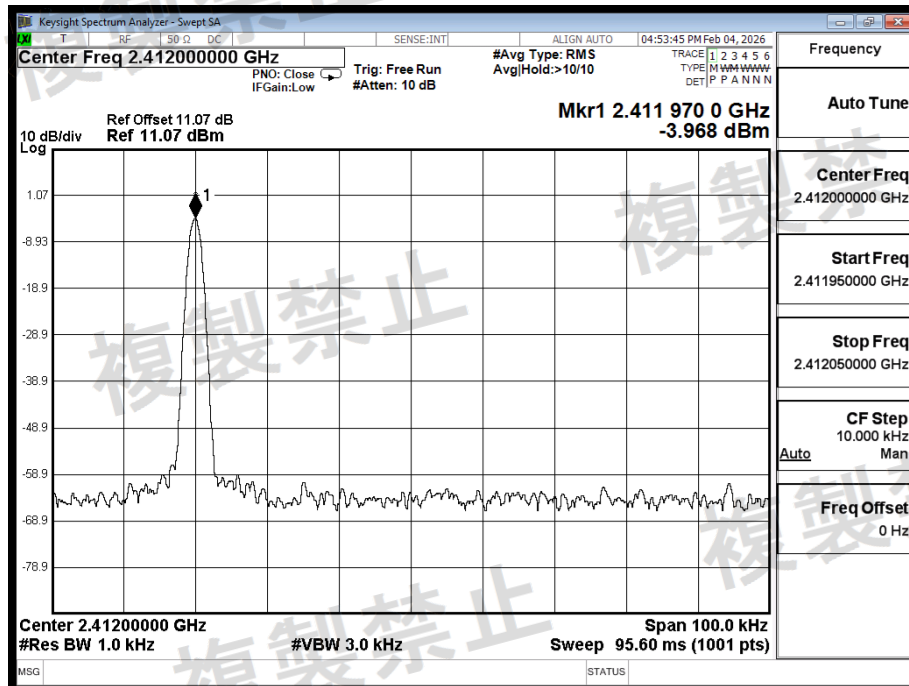
7.1 FREQUENCY ERROR

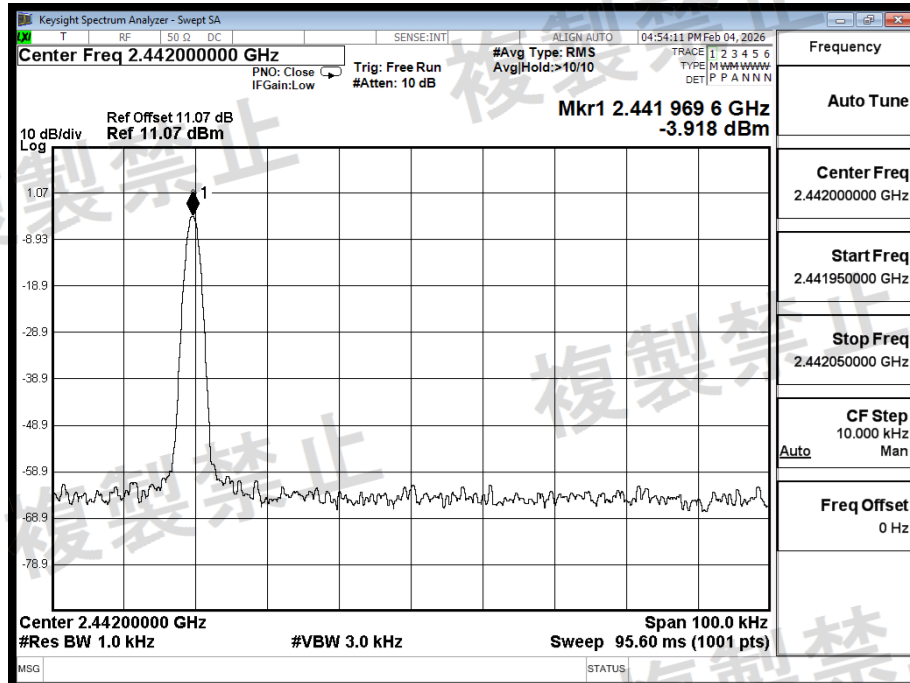
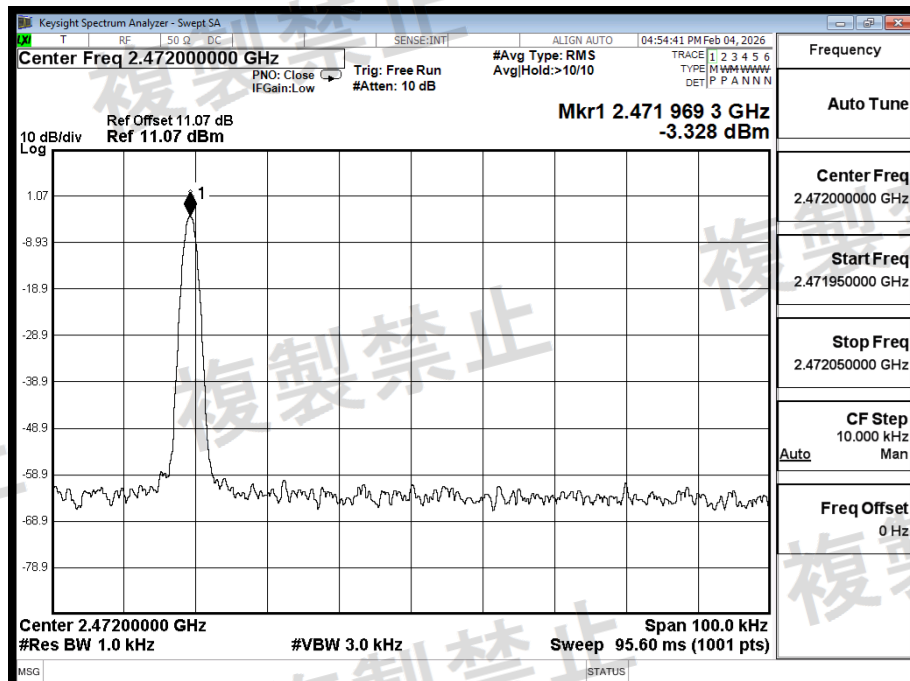
TEST RESULT

Frequency (MH z)	Reading (MH z)	Deviation (Hz)	Tolerance (ppm)	Test Result	Remark
2412.0000	2411.970000	-30000	-12.4378	PASS	Normal Voltage : DC12V
2442.0000	2441.969600	-30400	-12.4488	PASS	
2472.0000	2471.969300	-30700	-12.4191	PASS	

TEST PLOTS

CH Low



CH MidCH High

7.2 ANTENNA POWER

TEST RESULT

Equiv. Noise BW : 1.14 MH z Modulation : 6 [Mbps]

CF=fo, SPAN=2MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=20dB, ST=100ms

Frequency (MH z)	Power Meter (d B m)	System Factor (d B)	Output Power (d Bm)	Output Power (mW)	Test Result	Remark
2412.0000	-17.73	22.94	4.64	2.91135	PASS	Normal Voltage : DC12V
2442.0000	-17.65	22.94	4.72	2.96548	PASS	
2472.0000	-17.42	22.94	4.95	3.12676	PASS	

(Duty Cycle)

(RBW=1MHz,VBW=1MHz,Span=0Hz)

Frequency (MH z)	ON time (ms)	OFF time (ms)	Offset Factor (d B)	Remark
2412.0000	100.000	0.000	0.00	Normal Voltage : DC12V
2442.0000	100.000	0.000	0.00	
2472.0000	100.000	0.000	0.00	

7.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz~1000MHz

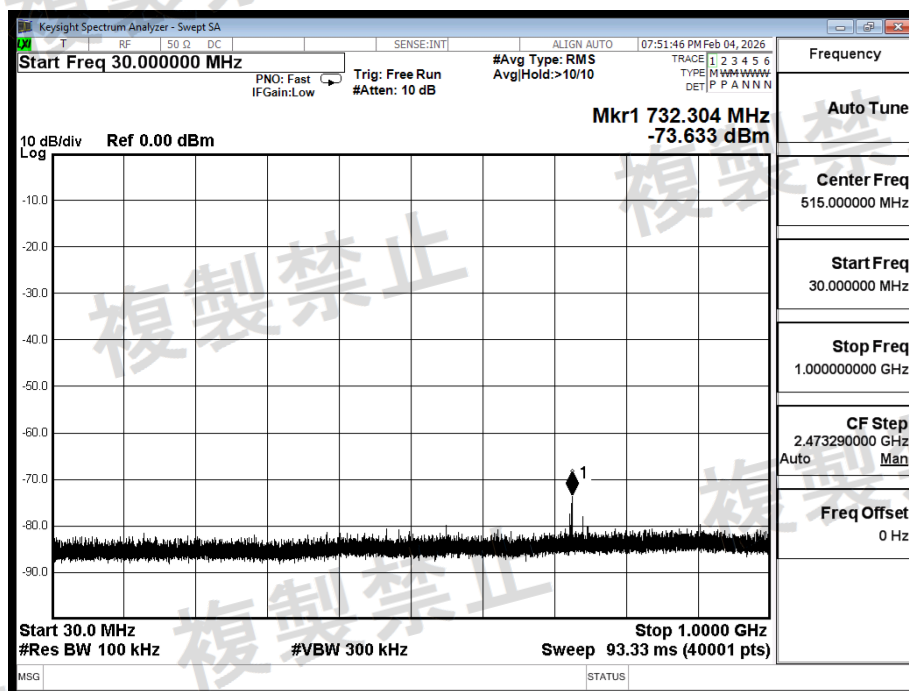
Freq: 30MHz~1,000MHz, RBW=100KHz, VBW=300KHz, RLV=0dB, ATT=10dB, ST=auto

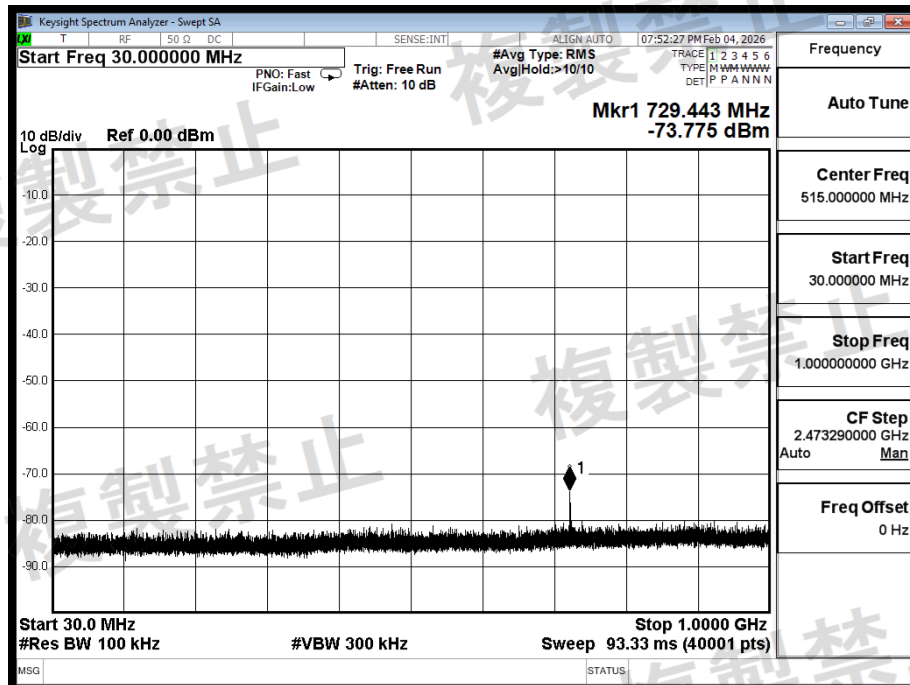
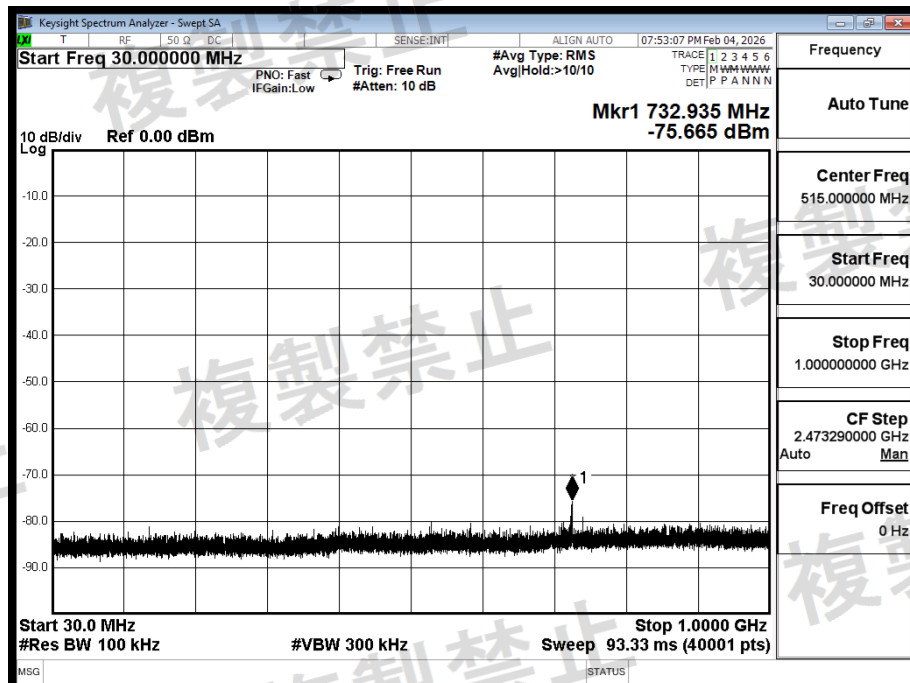
(1) Spurious Emission Intensity : 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	732.30	-73.63	11.07	0.00554	PASS	Normal Voltage : DC12V
2442.0000	729.44	-73.78	11.07	0.00536	PASS	
2472.0000	732.94	-75.67	11.07	0.00347	PASS	

TEST PLOTS

CH Low



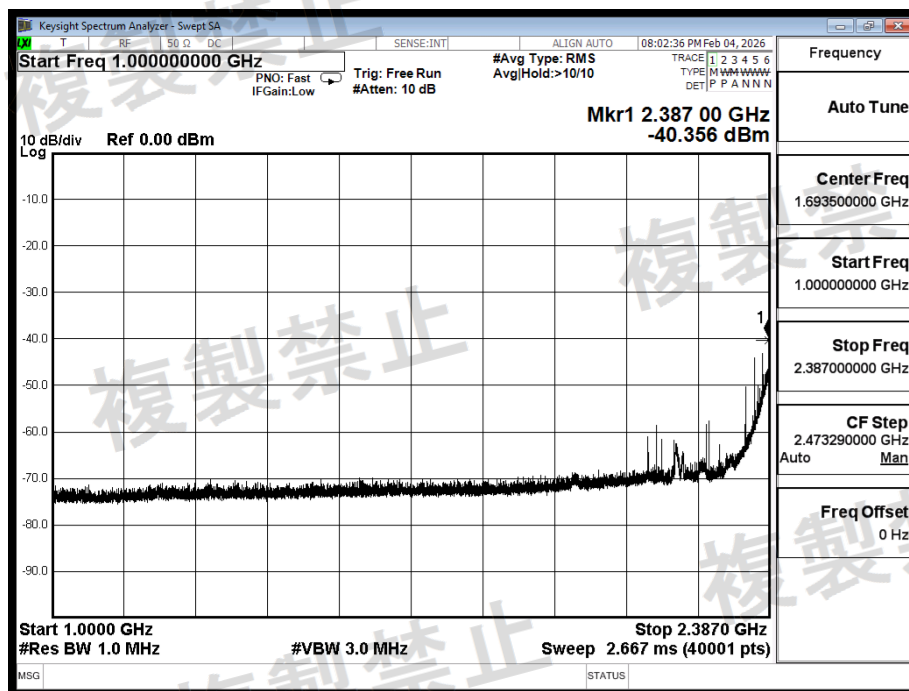
CH MidCH High

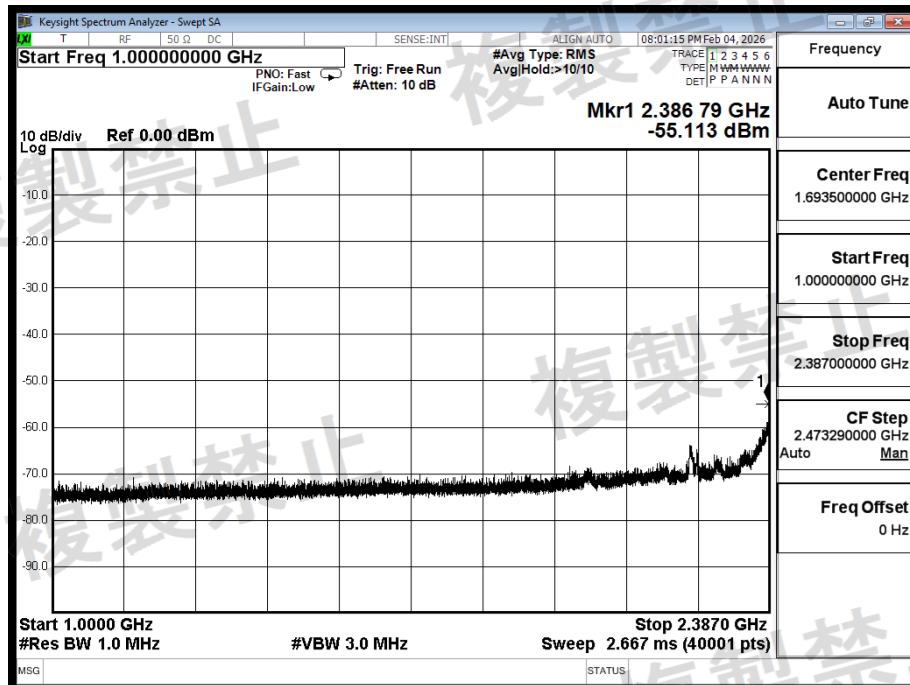
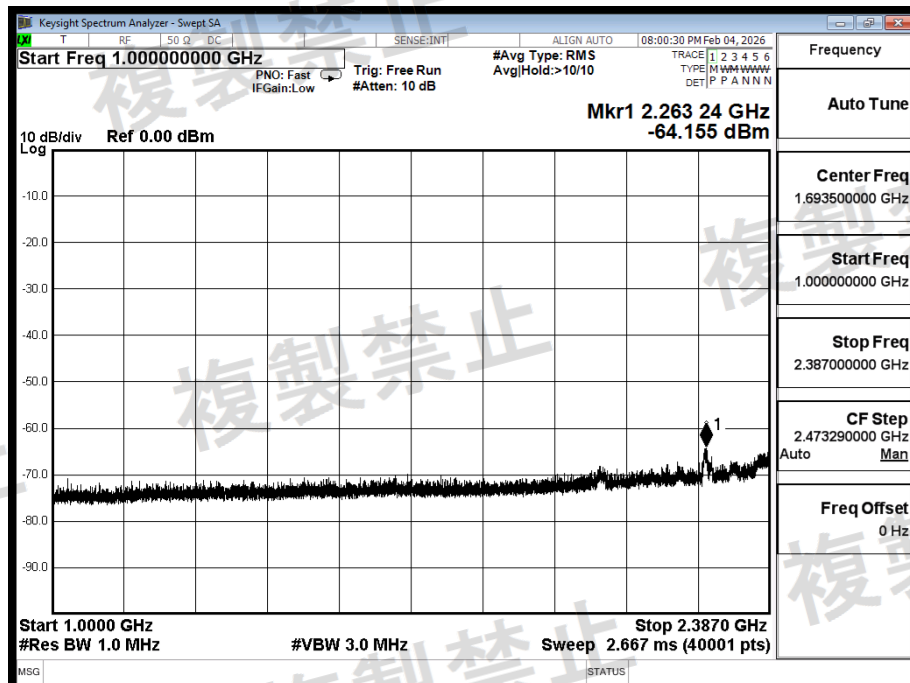
TEST RESULT**1000MHz ~ 2387MHz**

Freq: 1,000MHz~2,387MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(2) Spurious Emission Intensity : 1,000MHz~less than 2,387MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2387.0000	-40.36	11.07	1.17869	PASS	Normal Voltage : DC12V
2442.0000	2386.7900	-55.11	11.07	0.03942	PASS	
2472.0000	2263.2400	-64.16	11.07	0.00491	PASS	

TEST PLOTS**CH Low**

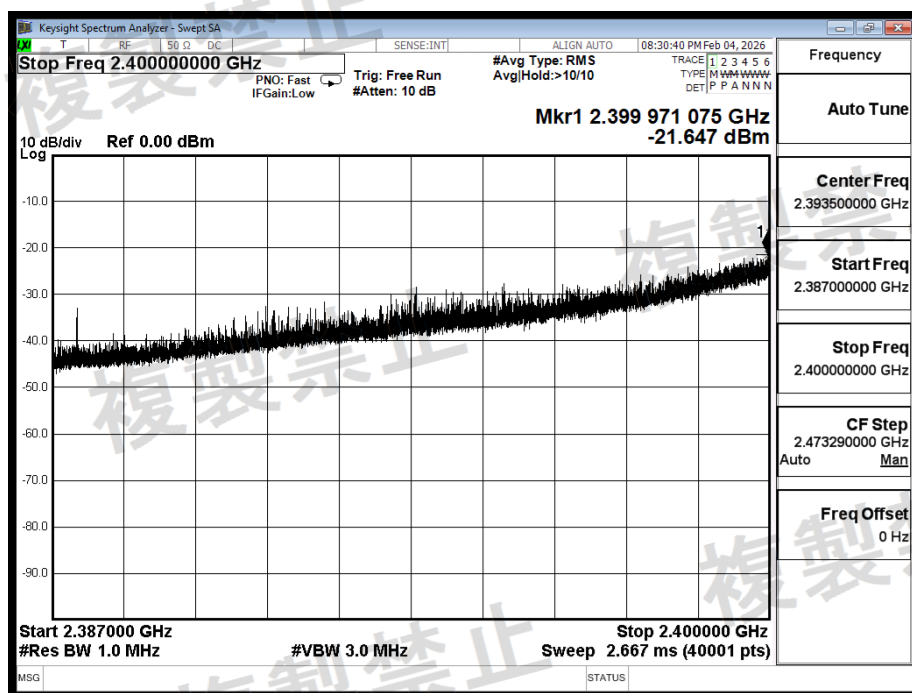
CH MidCH High

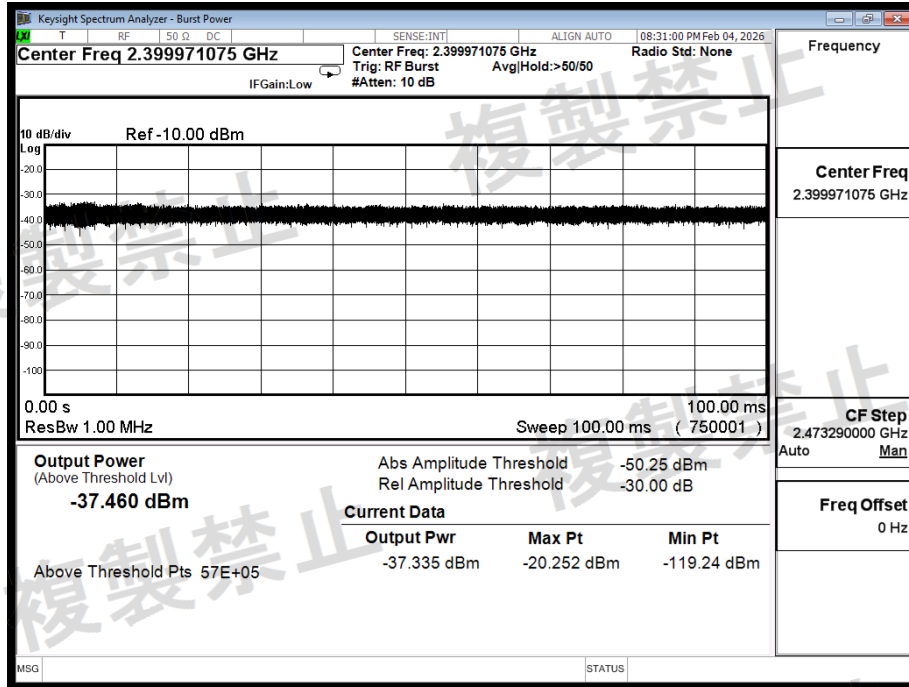
TEST RESULT**2387MHz ~ 2400MHz**

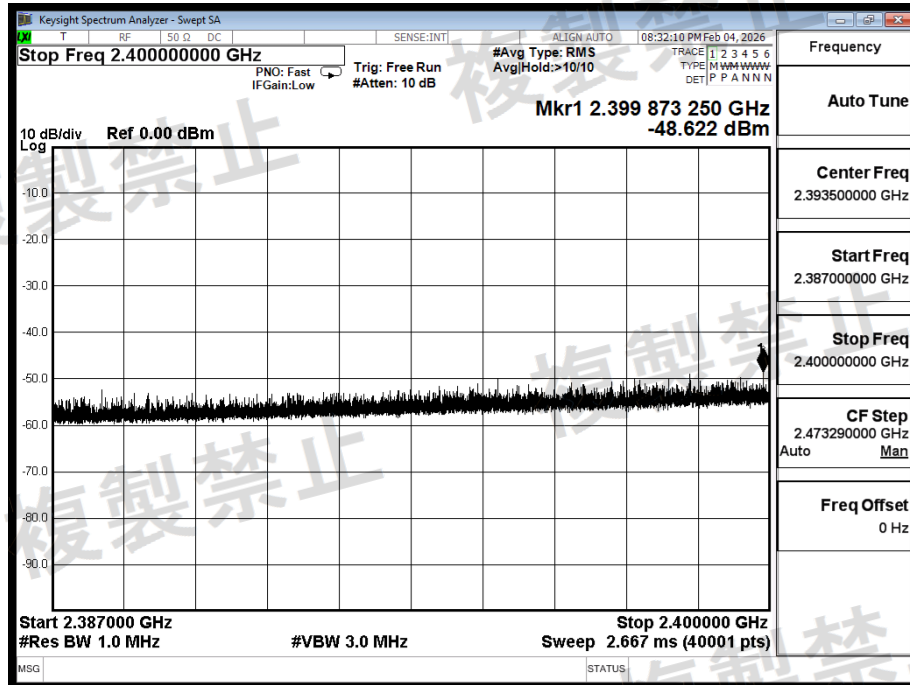
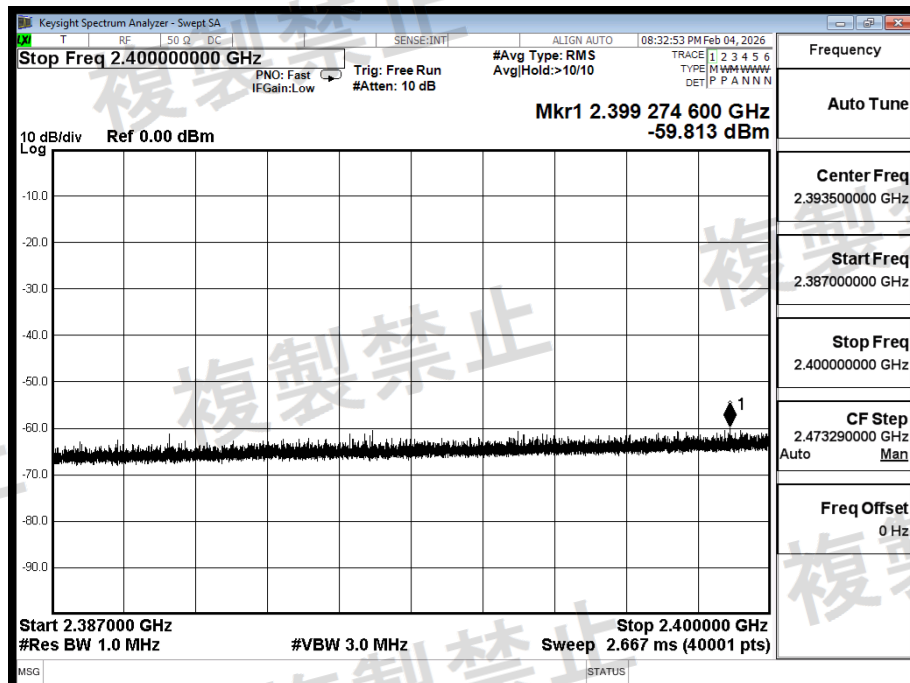
Freq: 2,387MHz~2,400MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(3) Spurious Emission Intensity : 2,387MHz~less than 2,400MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2399.9711	-37.46	11.07	2.29615	PASS	Normal Voltage : DC12V
2442.0000	2399.8733	-48.62	11.07	0.17571	PASS	
2472.0000	2399.2746	-59.81	11.07	0.01336	PASS	

TEST PLOTS**CH Low**



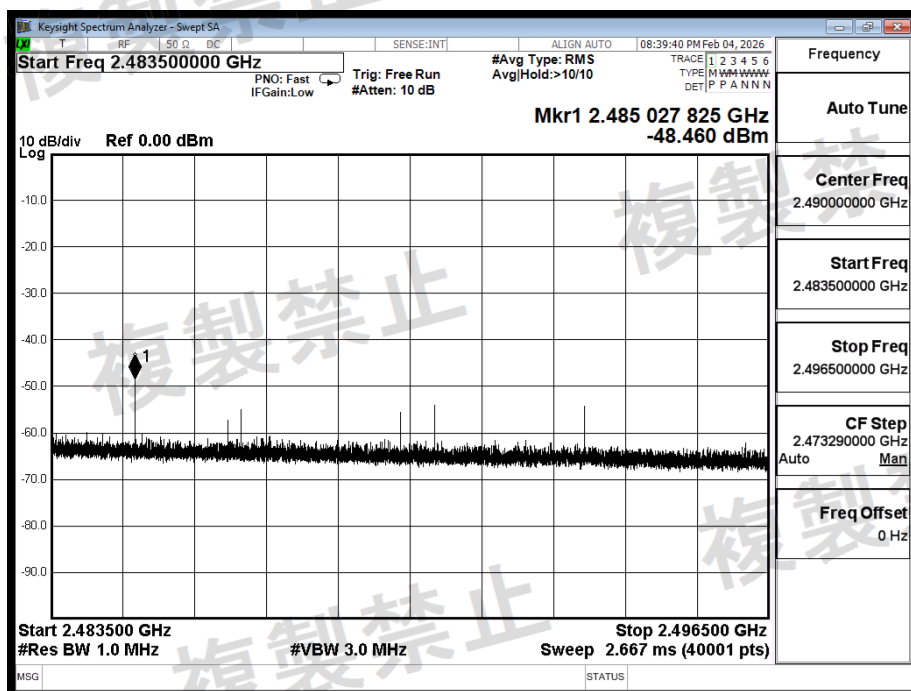
CH MidCH High

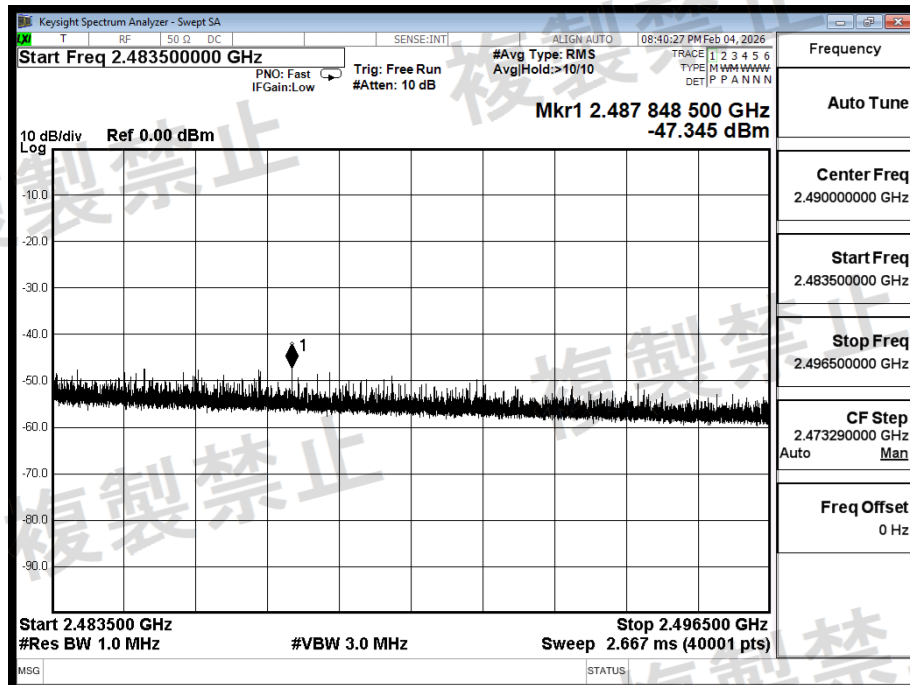
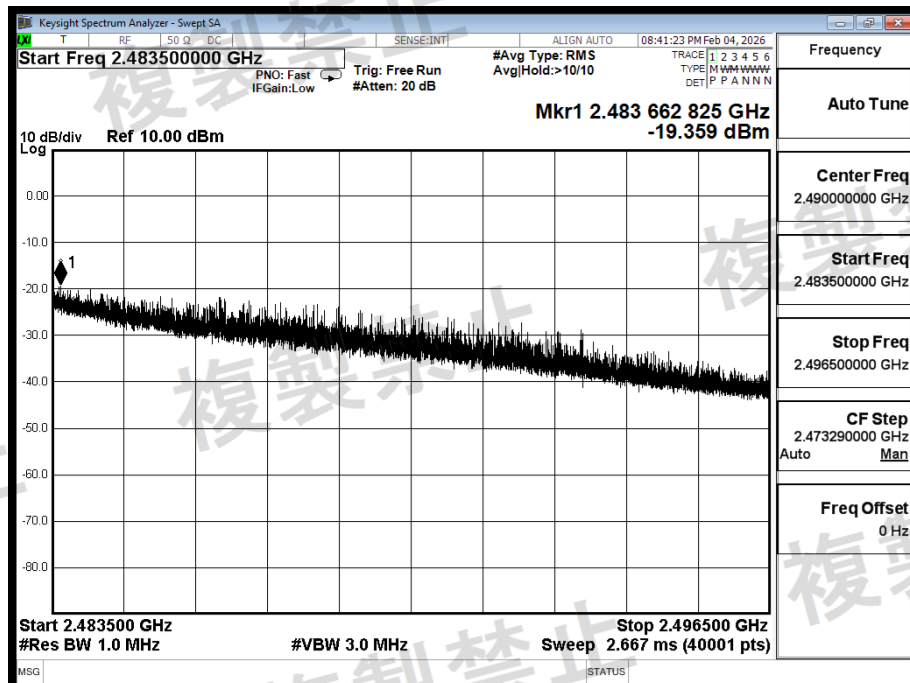
TEST RESULT**2483.5MHz ~ 2496.5MHz**

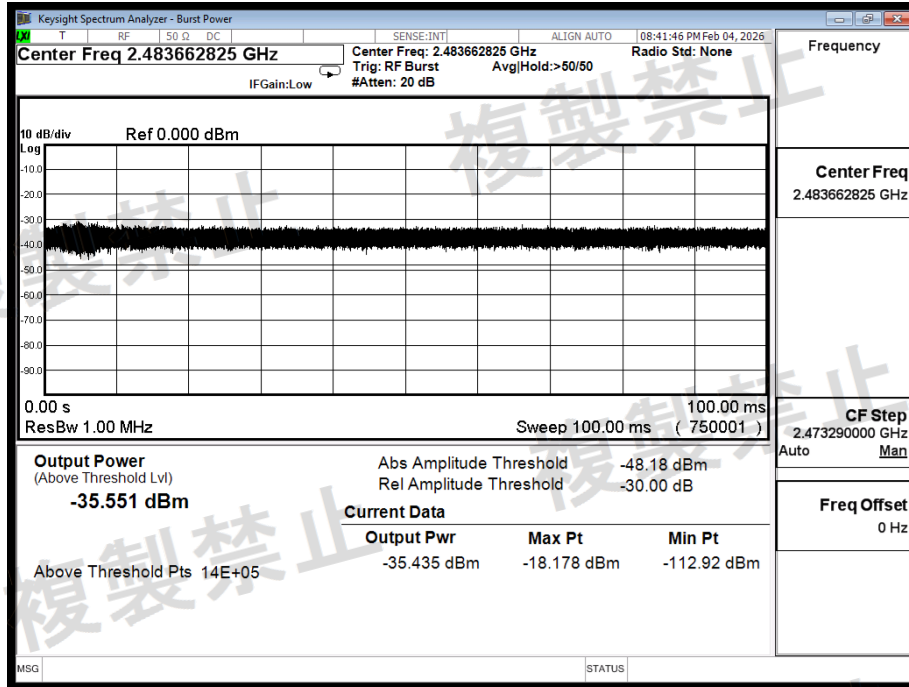
Freq: 2,483.5MHz~2,496.5MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(4) Spurious Emission Intensity : 2,483.5MHz~2,496.5MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2485.0278	-48.46	11.07	0.18239	PASS	Normal Voltage : DC12V
2442.0000	2487.8485	-47.35	11.07	0.23578	PASS	
2472.0000	2483.6628	-35.55	11.07	3.56369	PASS	

TEST PLOTS**CH Low**

CH MidCH High



TEST RESULT

2496.5MHz ~ 12.5GHz

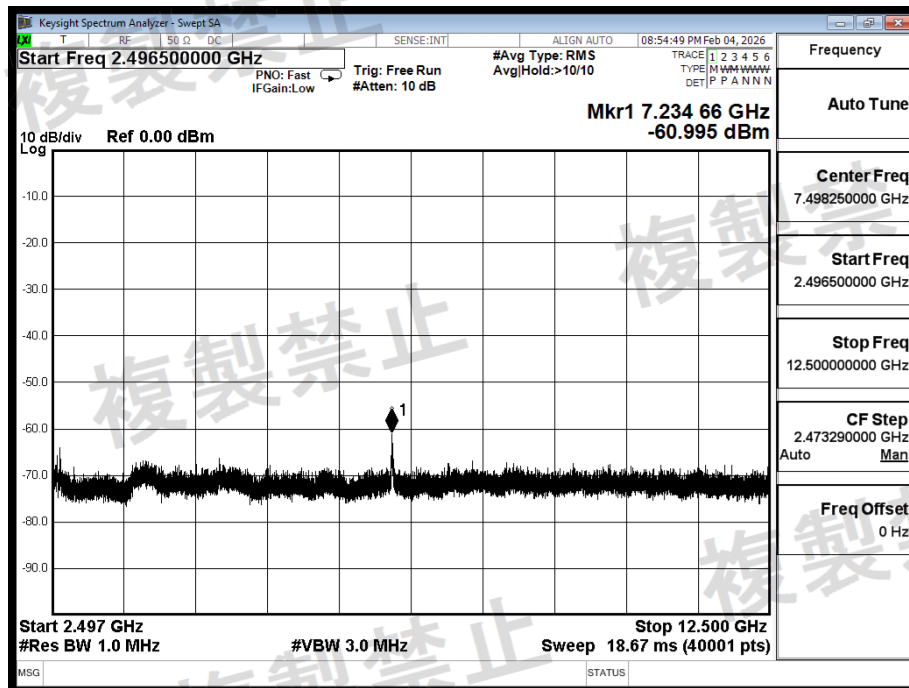
Freq: 2,496.5MHz~12.5GHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

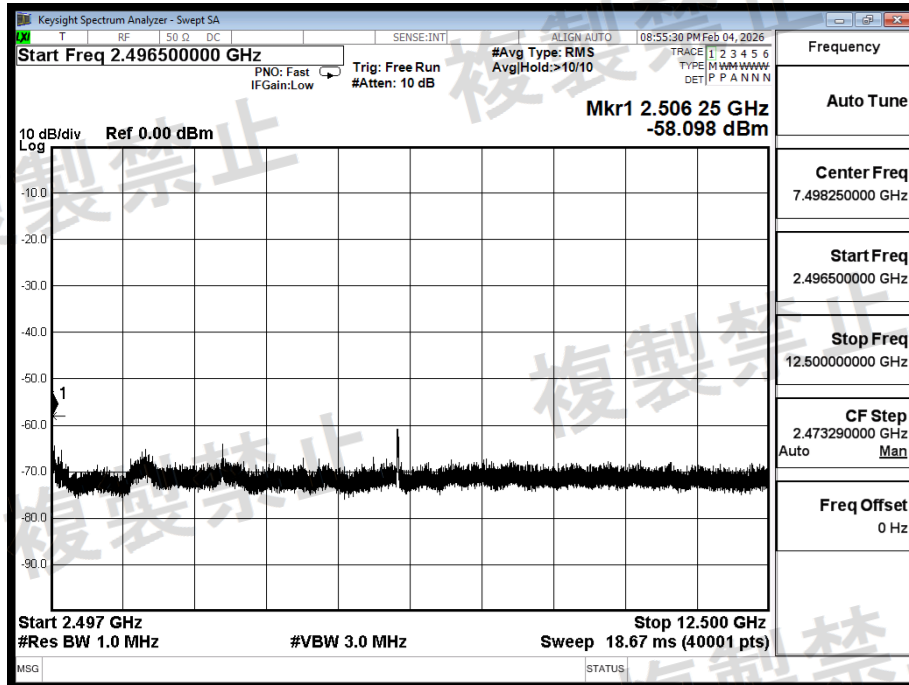
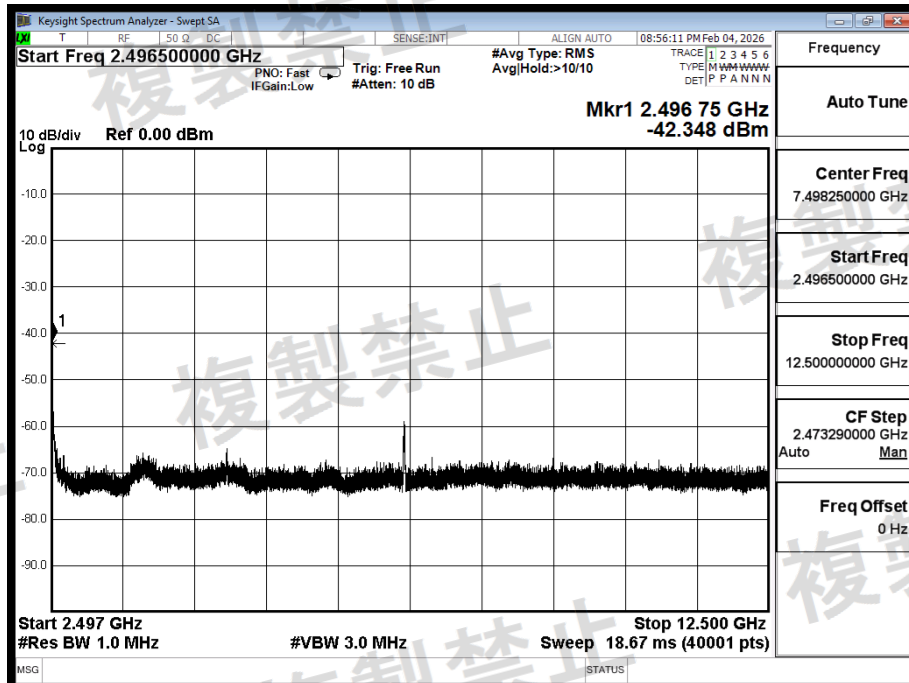
(5) Spurious Emission Intensity : more than 2,496.5MHz~12.5GHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	7234.6600	-61.00	11.07	0.01017	PASS	Normal Voltage : DC12V
2442.0000	2506.2500	-58.10	11.07	0.01982	PASS	
2472.0000	2496.7500	-42.35	11.07	0.74508	PASS	

TEST PLOTS

CH Low



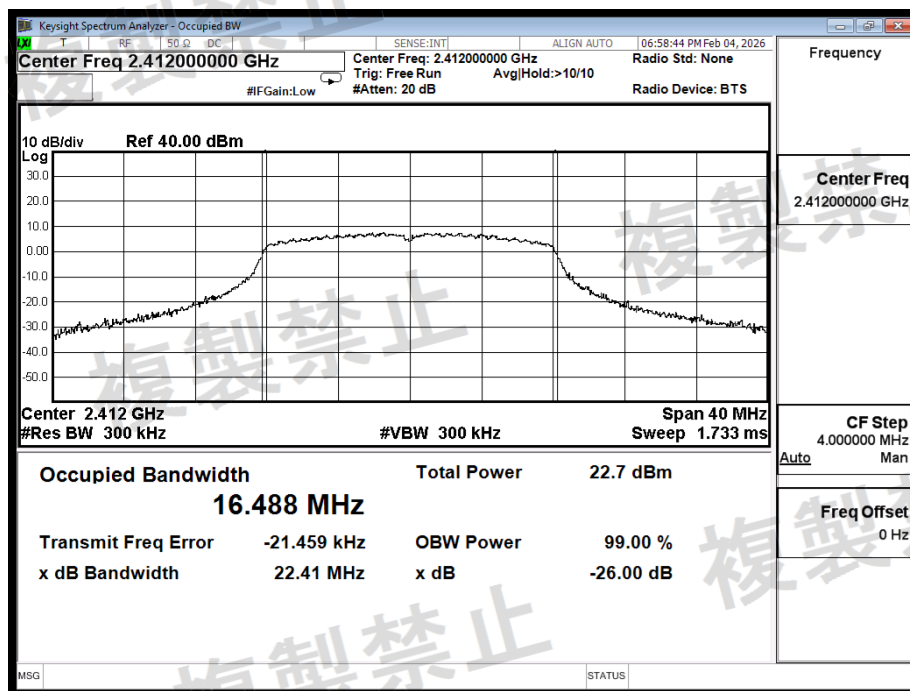
CH MidCH High

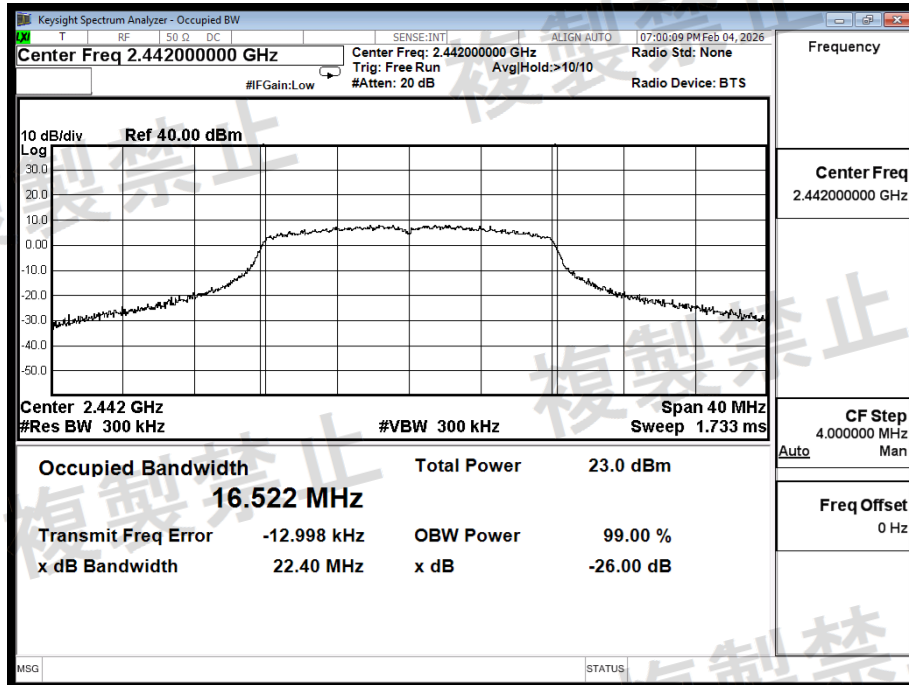
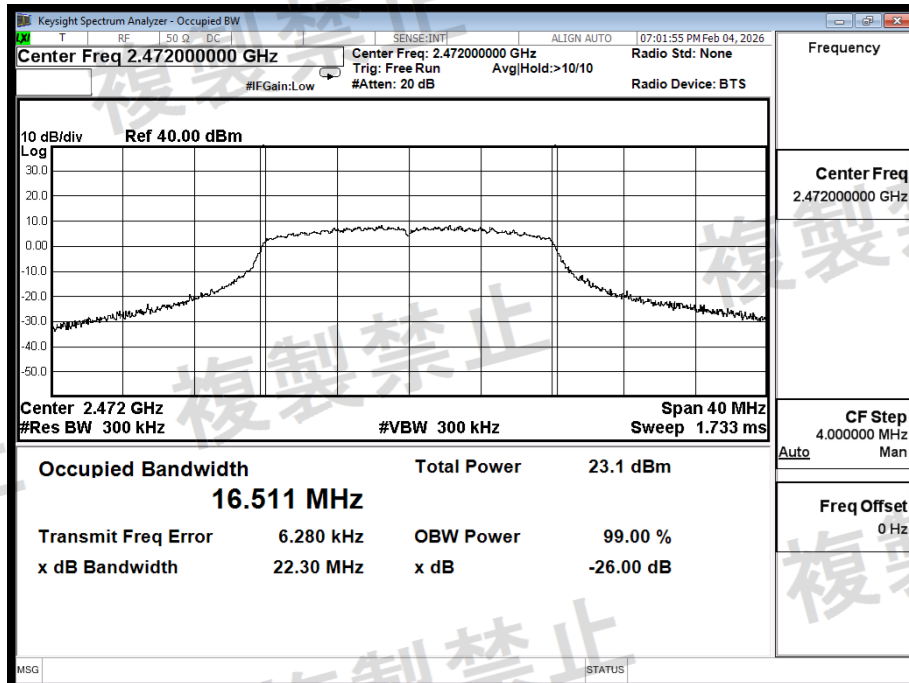
7.4 OCCUPIED BANDWIDTH (99%)**TEST RESULT**

CF=fo, SPAN=30MHz, RBW=VBW=300kHz, RLV=0dB, ATT=10dB, ST=auto

Modulation : 6 [Mbps]

Frequency (MHz)	Bandwidth (MHz)	Test Result	Remark
2412.0000	16.49	PASS	Normal Voltage : DC12V
2442.0000	16.52	PASS	
2472.0000	16.51	PASS	

TEST PLOTS**CH Low**

CH MidCH High

7.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

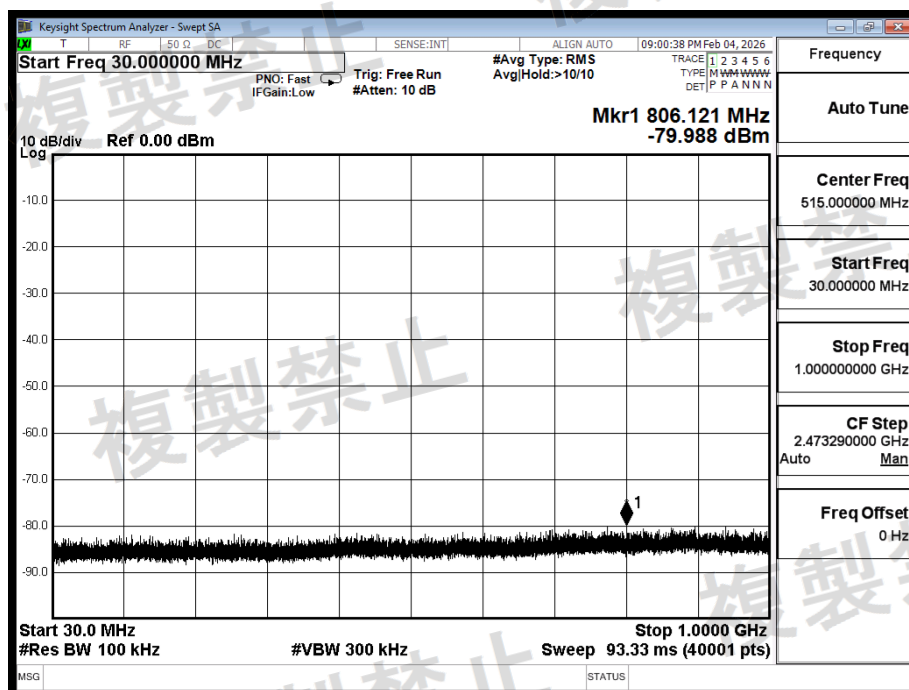
TEST RESULT

30MHz~1000MHz

Freq: 30MHz~1GHz, RBW=100KHz VBW=300KHz, RLV=0dB, ATT=10dB, ST=auto

Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (nW/MHz)	Test Result	Remark
806.12	-79.99	11.07	0.1283	PASS	Normal Voltage : DC12V

TEST PLOTS

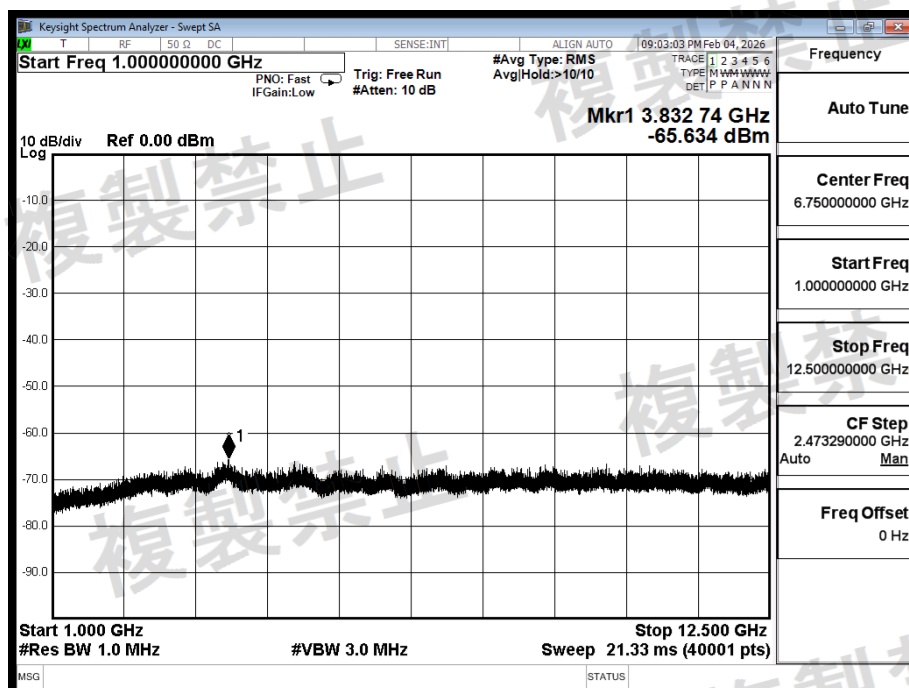


1GHz~12.5GHz

Freq: 1GHz~12.5GHz, RBW=1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (nW/MHz)	Test Result	Remark
3832.74	-65.63	11.07	3.4962	PASS	Normal Voltage : DC12V

TEST PLOTS



8. TEST RESULT FOR IEEE 802.11n HT20(CH1~CH13)

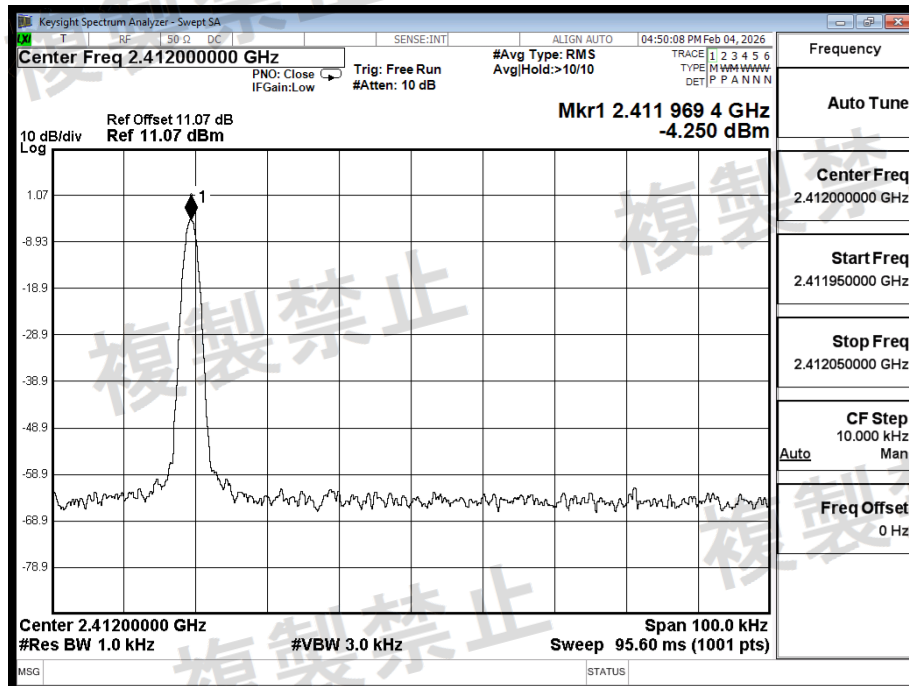
8.1 FREQUENCY ERROR

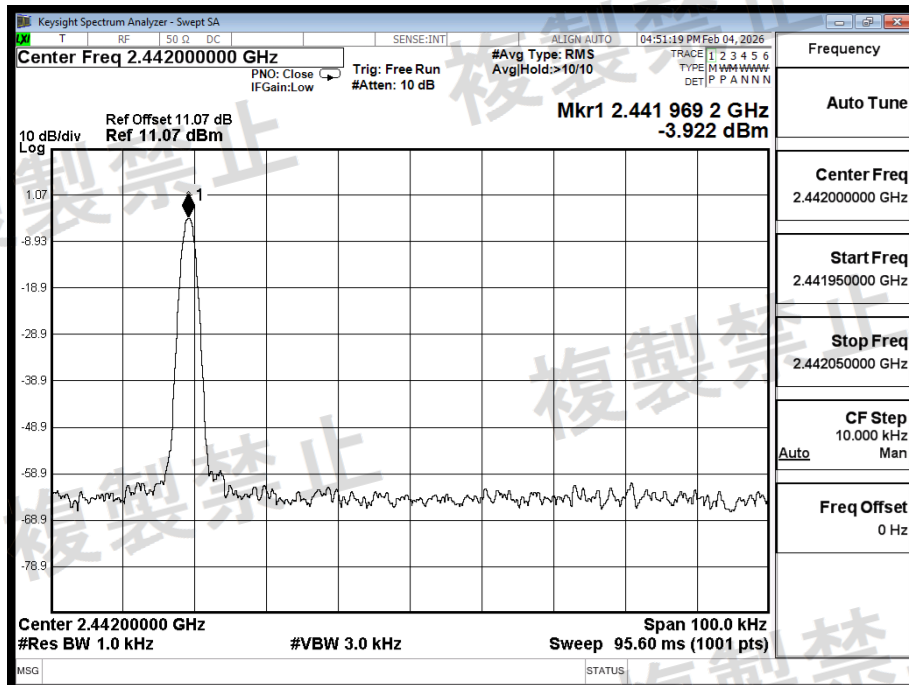
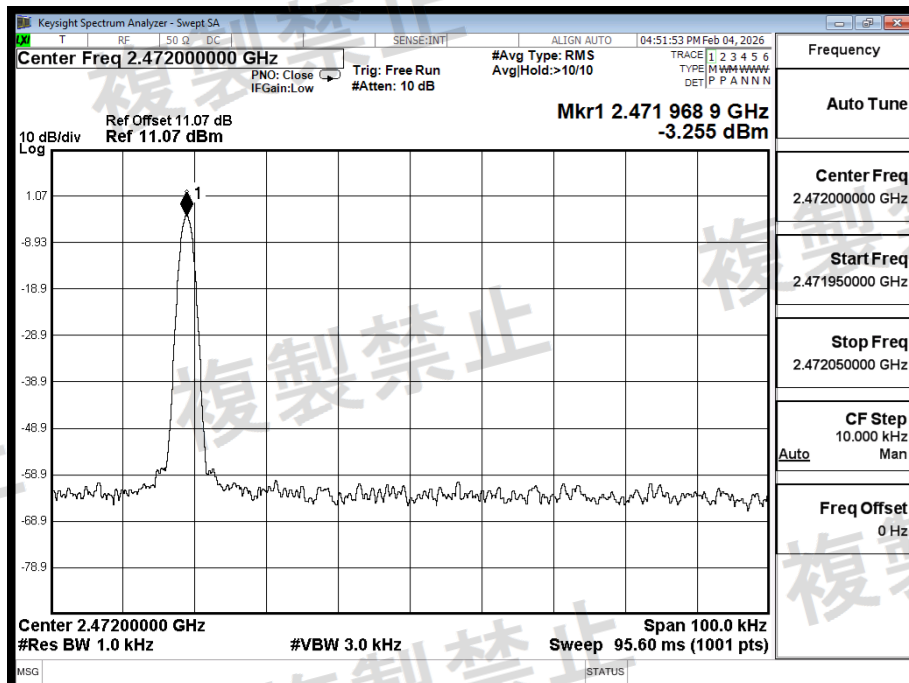
TEST RESULT

Frequency (MH z)	Reading (MH z)	Deviation (Hz)	Tolerance (ppm)	Test Result	Remark
2412.0000	2411.969400	-30600	-12.6866	PASS	Normal Voltage : DC12V
2442.0000	2441.969200	-30800	-12.6126	PASS	
2472.0000	2471.968900	-31100	-12.5809	PASS	

TEST PLOTS

CH Low



CH MidCH High

8.2 ANTENNA POWER

TEST RESULT

Equiv. Noise BW : 1.14 MHz Modulation : 13 [Mbps]

CF=fo, SPAN=2MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=20dB, ST=100ms

Frequency (MHz)	Power Meter (dBm)	System Factor (dB)	Output Power (dBm)	Output Power (mW)	Test Result	Remark
2412.0000	-19.16	22.94	3.21	2.09457	PASS	Normal Voltage : DC12V
2442.0000	-19.24	22.94	3.13	2.05634	PASS	
2472.0000	-18.97	22.94	3.40	2.18824	PASS	

(Duty Cycle)

(RBW=1MHz,VBW=1MHz,Span=0Hz)

Frequency (MHz)	ON time (ms)	OFF time (ms)	Offset Factor (dB)	Remark
2412.0000	100.000	0.000	0.00	Normal Voltage : DC12V
2442.0000	100.000	0.000	0.00	
2472.0000	100.000	0.000	0.00	

8.3 SPURIOUS EMISSIONS INTENSITY

TEST RESULT

30MHz~1000MHz

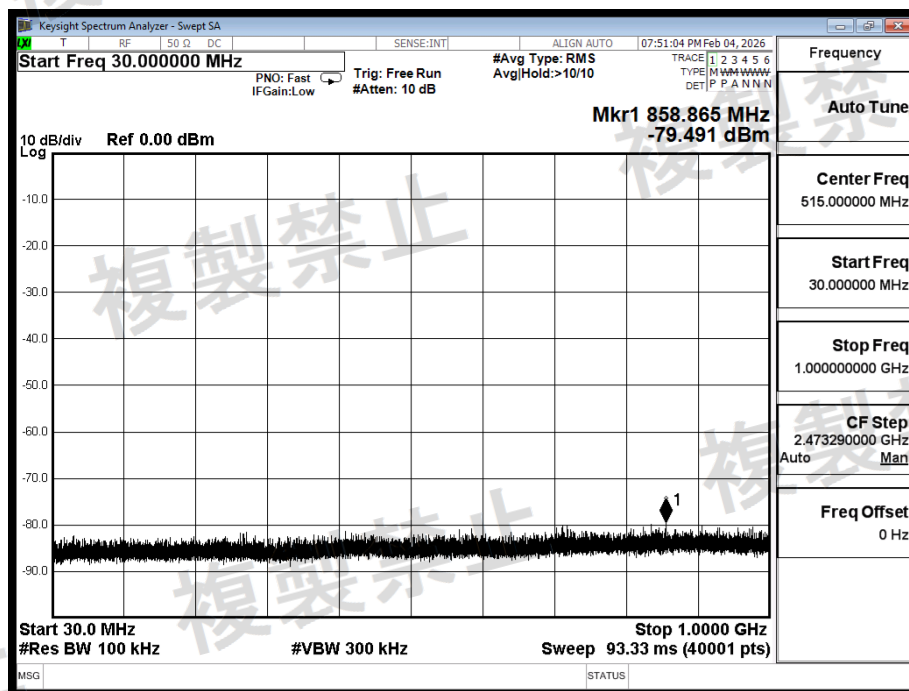
Freq: 30MHz~1,000MHz, RBW=100KHz, VBW=300KHz, RLV=0dB, ATT=10dB, ST=auto

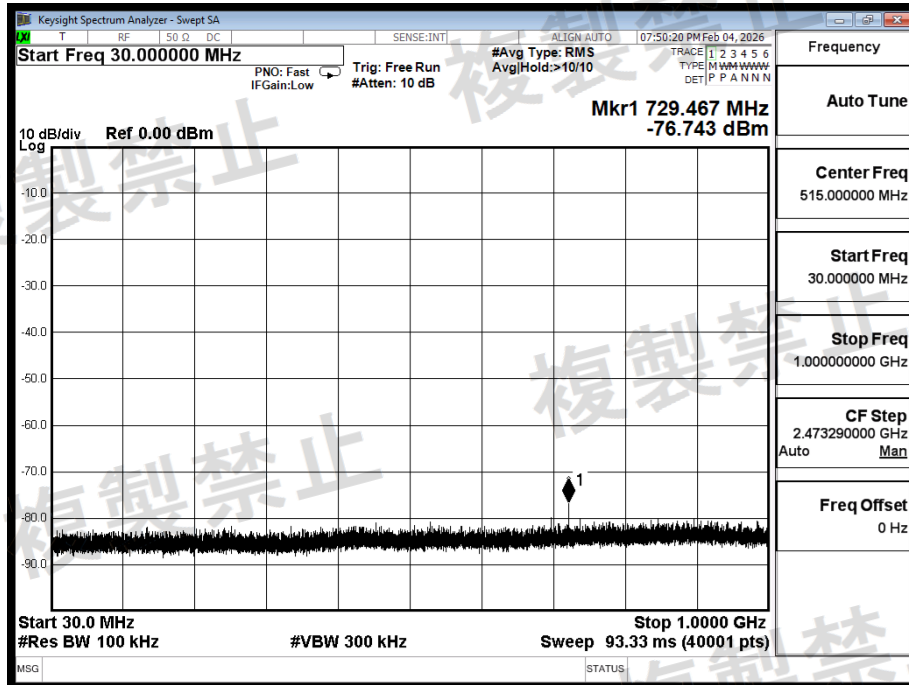
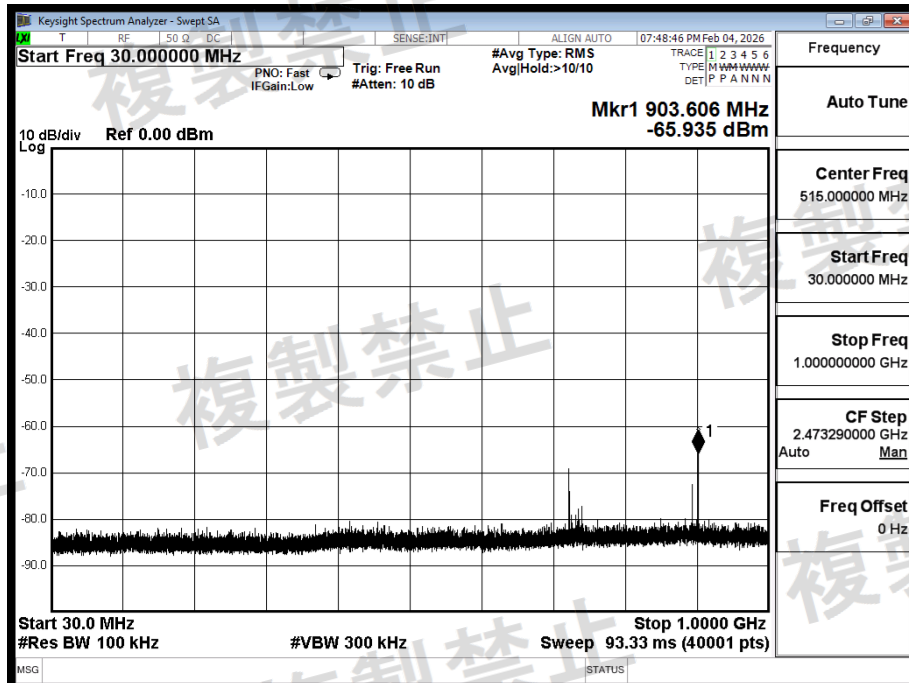
(1) Spurious Emission Intensity : 30MHz~less than 1,000MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	858.87	-79.49	11.07	0.00144	PASS	Normal Voltage : DC12V
2442.0000	729.47	-76.74	11.07	0.00271	PASS	
2472.0000	903.61	-65.94	11.07	0.03262	PASS	

TEST PLOTS

CH Low



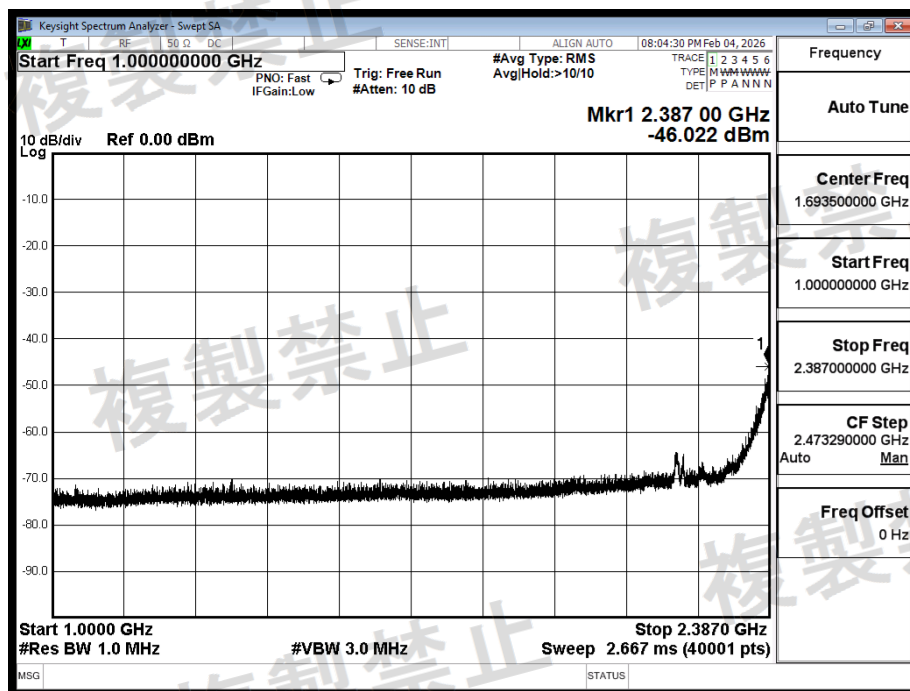
CH MidCH High

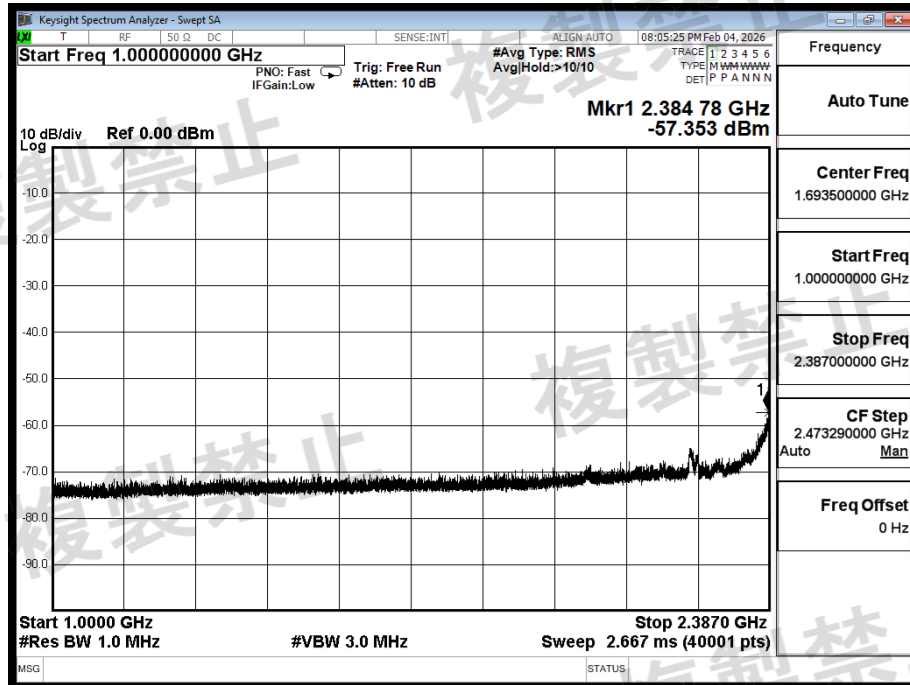
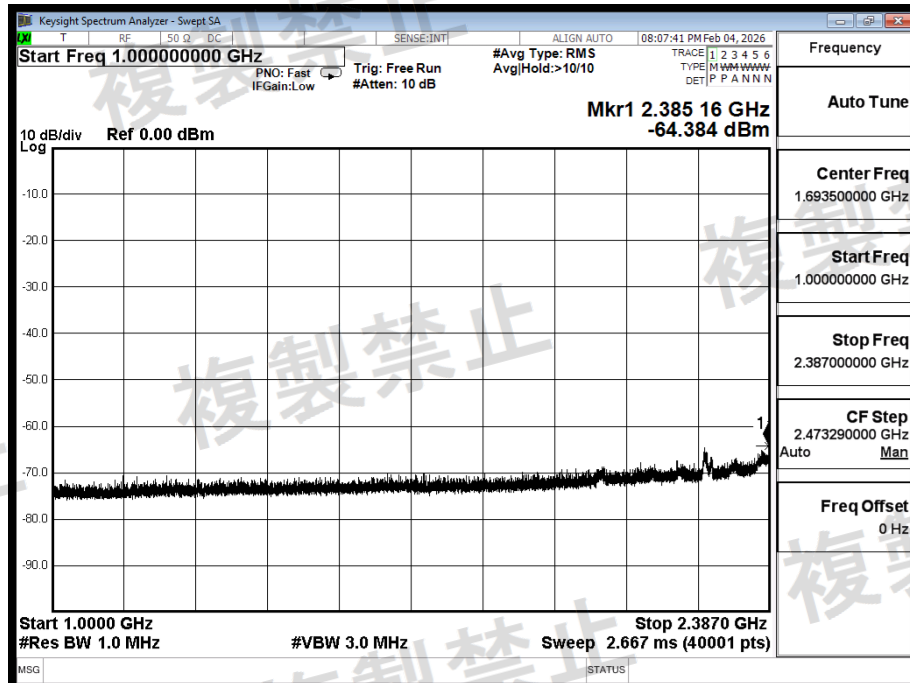
TEST RESULT**1000MHz ~ 2387MHz**

Freq: 1,000MHz~2,387MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(2) Spurious Emission Intensity : 1,000MHz~less than 2,387MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2387.0000	-46.02	11.07	0.31974	PASS	Normal Voltage : DC12V
2442.0000	2384.7800	-57.35	11.07	0.02353	PASS	
2472.0000	2385.1600	-64.38	11.07	0.00466	PASS	

TEST PLOTS**CH Low**

CH MidCH High

TEST RESULT

2387MHz ~ 2400MHz

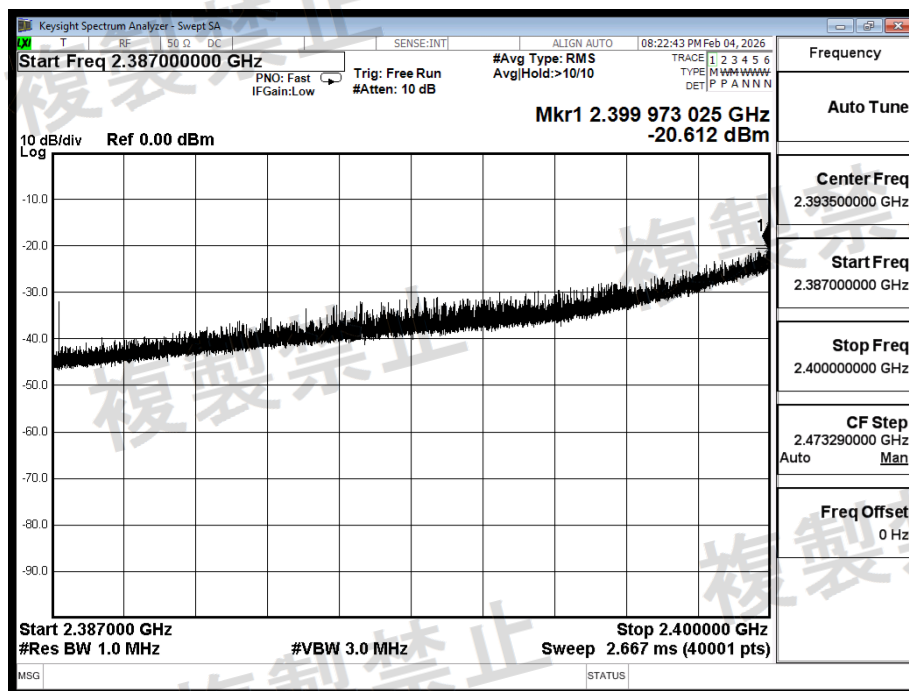
Freq: 2,387MHz~2,400MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

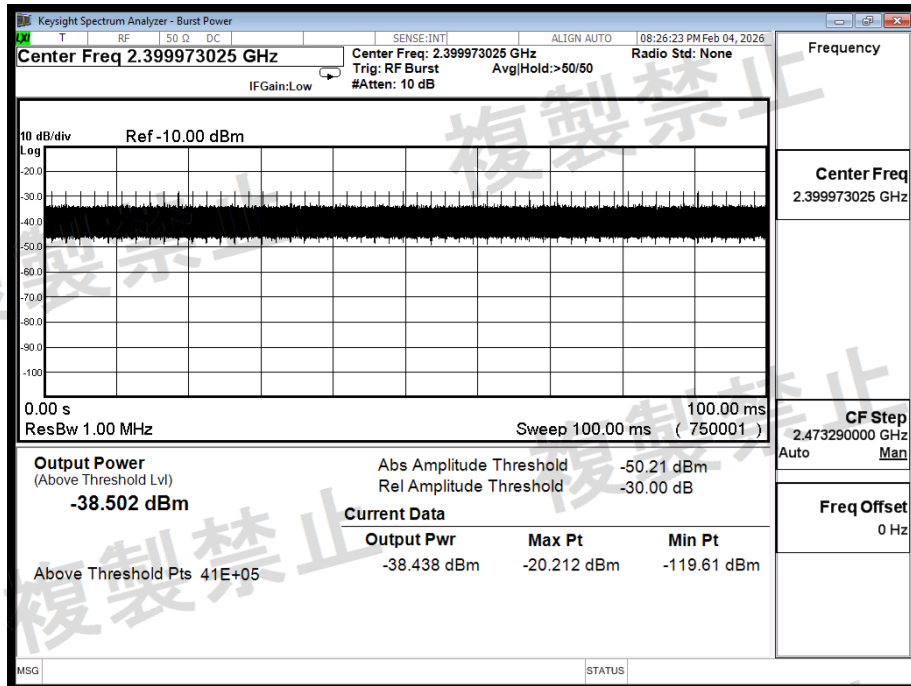
(3) Spurious Emission Intensity : 2,387MHz~less than 2,400MHz

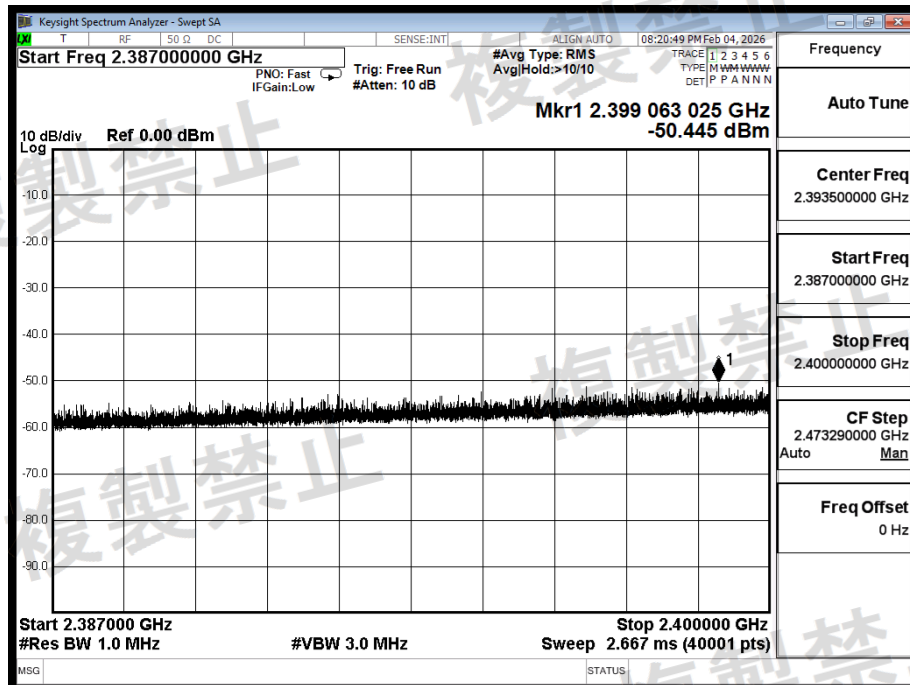
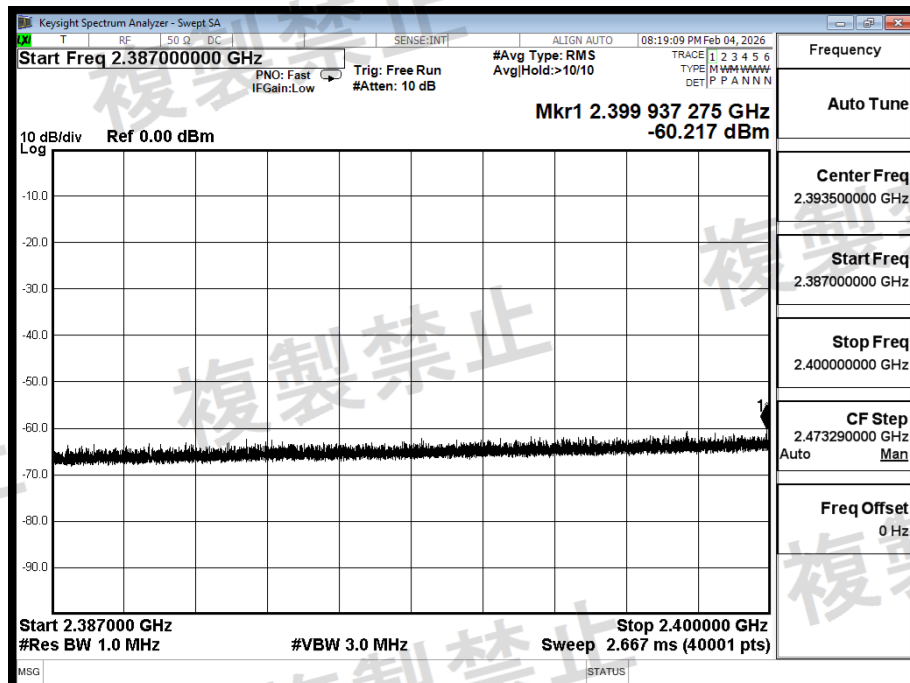
Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2399.9730	-38.50	11.07	1.80717	PASS	Normal Voltage : DC12V
2442.0000	2399.0630	-50.45	11.07	0.11548	PASS	
2472.0000	2399.9373	-60.22	11.07	0.01217	PASS	

TEST PLOTS

CH Low





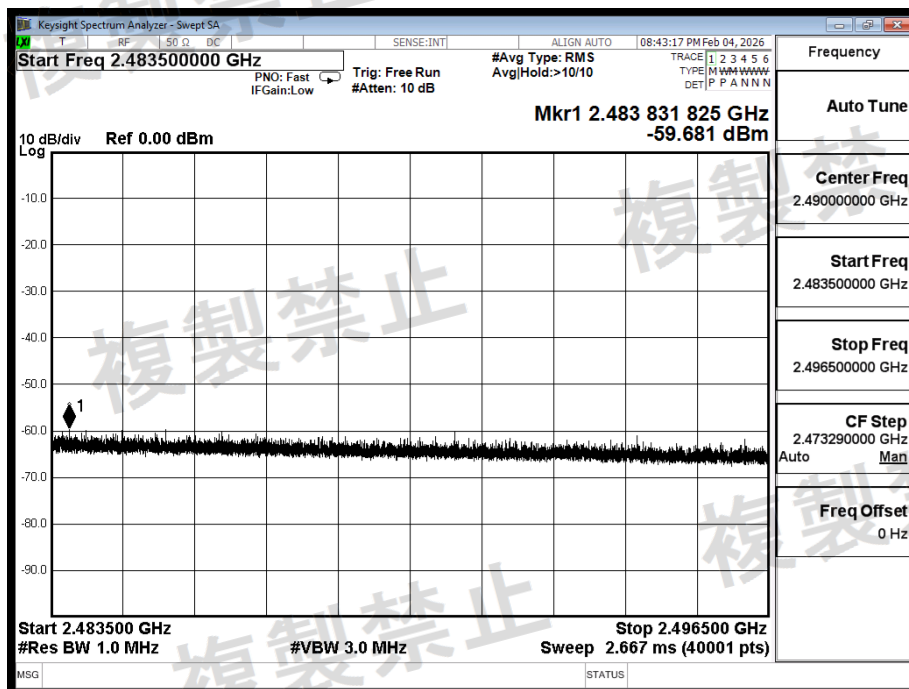
CH MidCH High

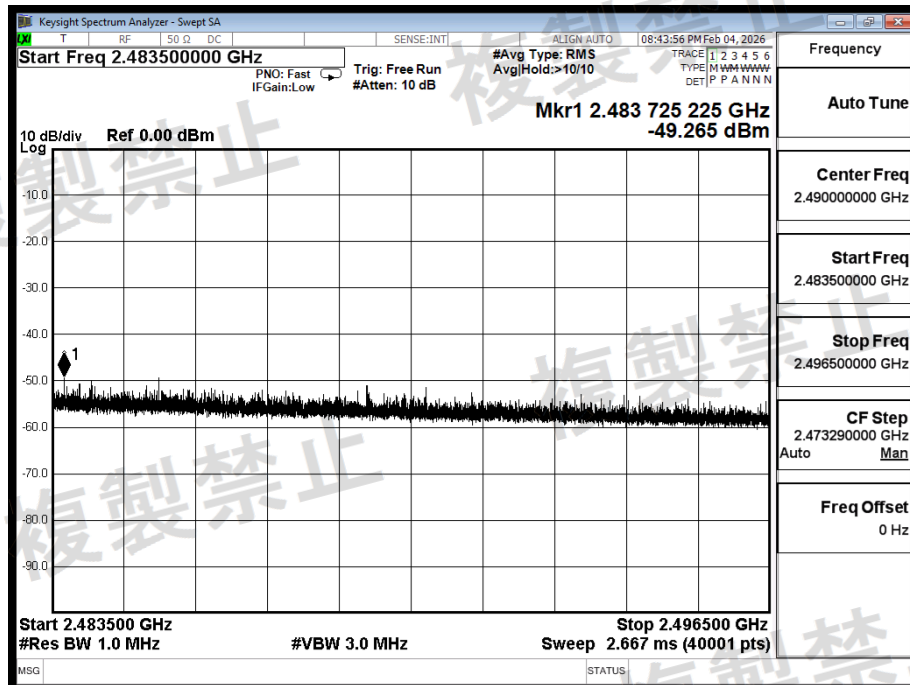
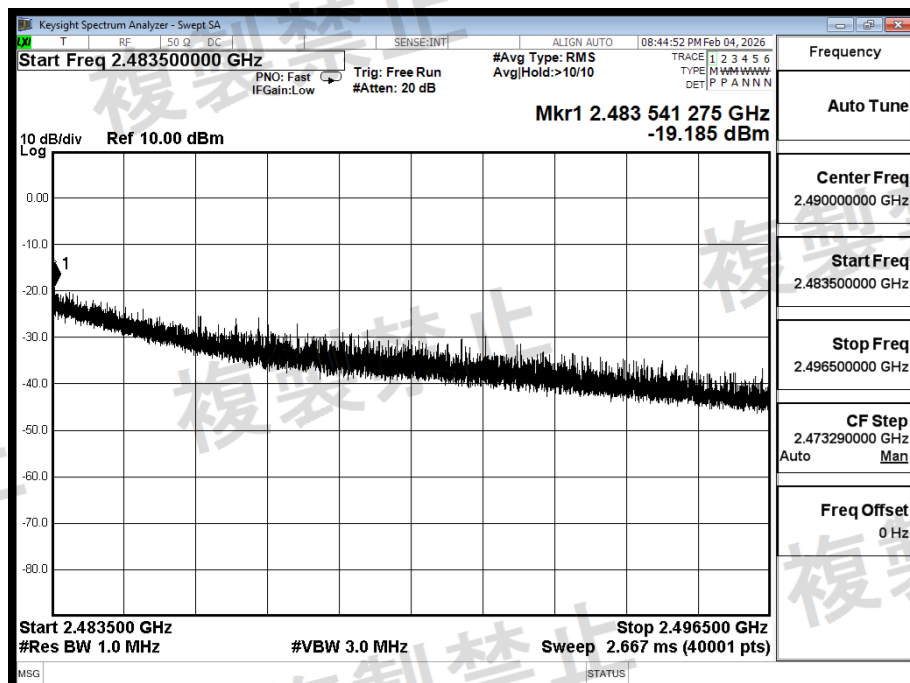
TEST RESULT**2483.5MHz ~ 2496.5MHz**

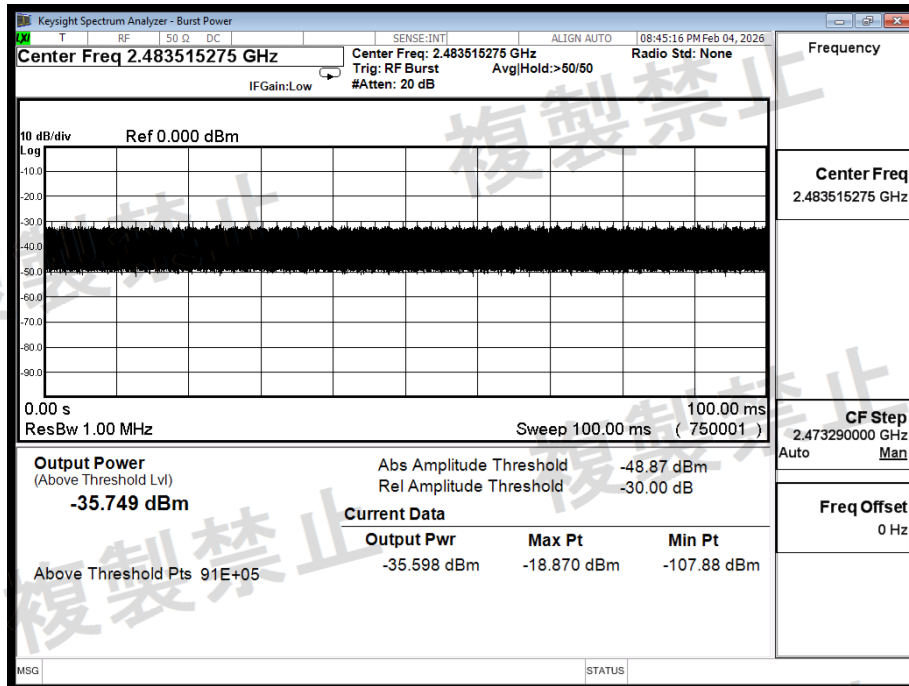
Freq: 2,483.5MHz~2,496.5MHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

(4) Spurious Emission Intensity : 2,483.5MHz~2,496.5MHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	2483.8318	-59.68	11.07	0.01377	PASS	Normal Voltage : DC12V
2442.0000	2483.7252	-49.27	11.07	0.15153	PASS	
2472.0000	2483.5413	-35.75	11.07	3.40487	PASS	

TEST PLOTS**CH Low**

CH MidCH High



TEST RESULT

2496.5MHz ~ 12.5GHz

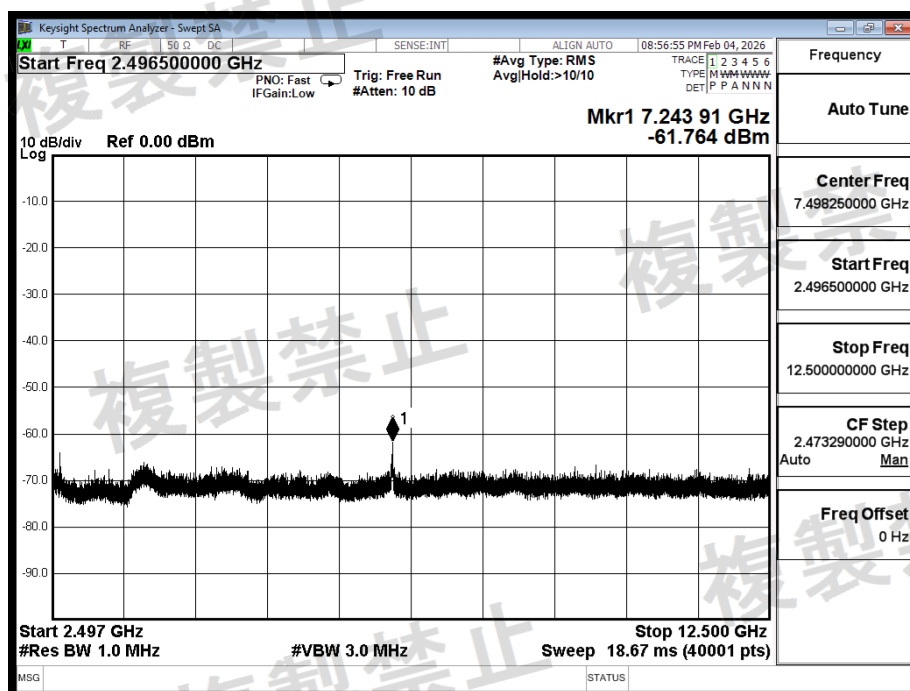
Freq: 2,496.5MHz~12.5GHz, RBW=1MHz, VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

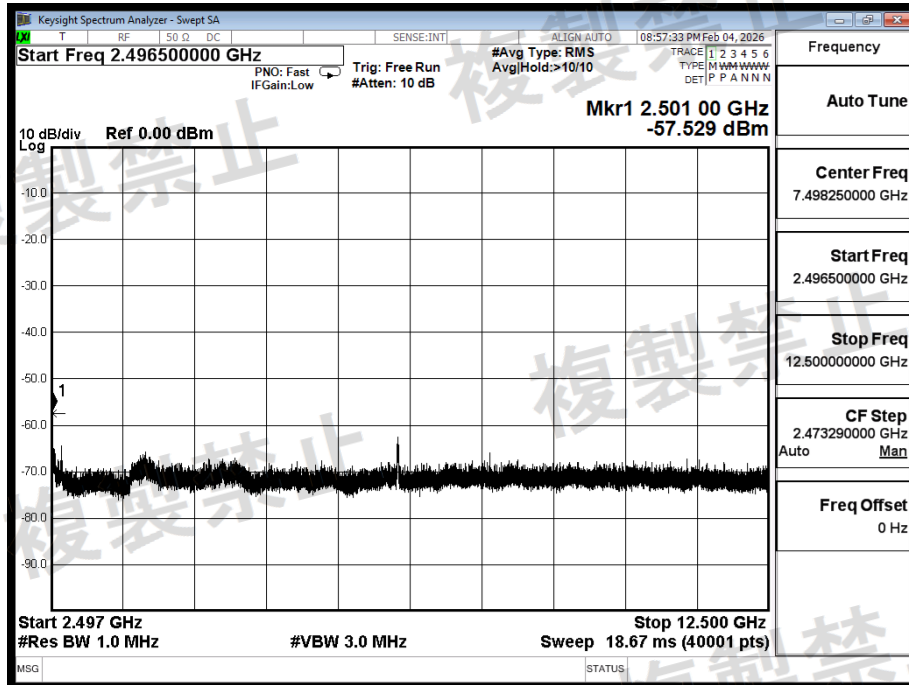
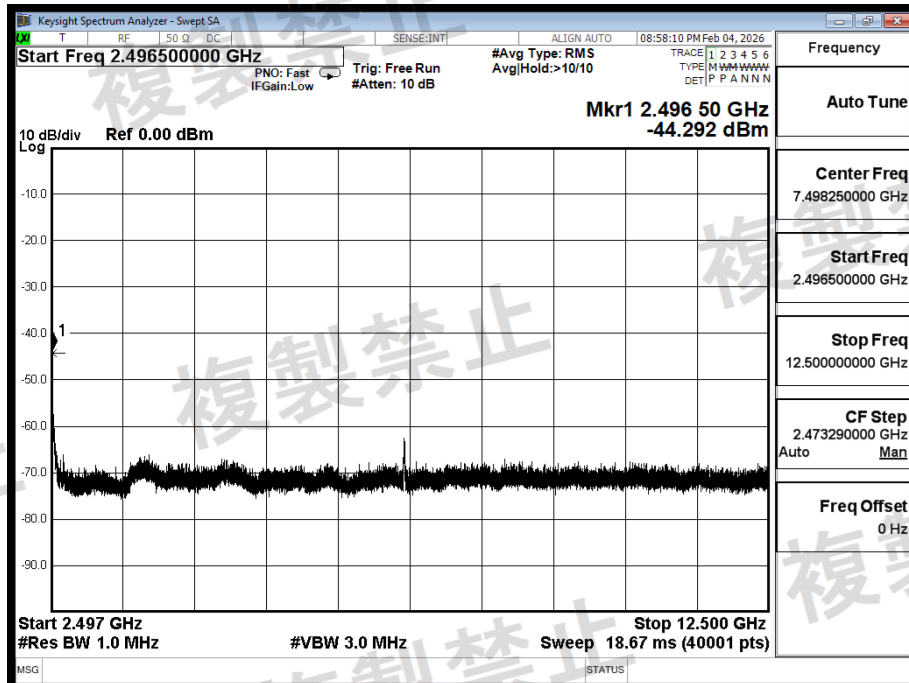
(5) Spurious Emission Intensity : more than 2,496.5MHz~12.5GHz

Frequency (MHz)	Reading (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (μW/MHz)	Test Result	Remark
2412.0000	7243.9100	-61.76	11.07	0.00852	PASS	Normal Voltage : DC12V
2442.0000	2501.0000	-57.53	11.07	0.02260	PASS	
2472.0000	2496.5000	-44.29	11.07	0.47621	PASS	

TEST PLOTS

CH Low



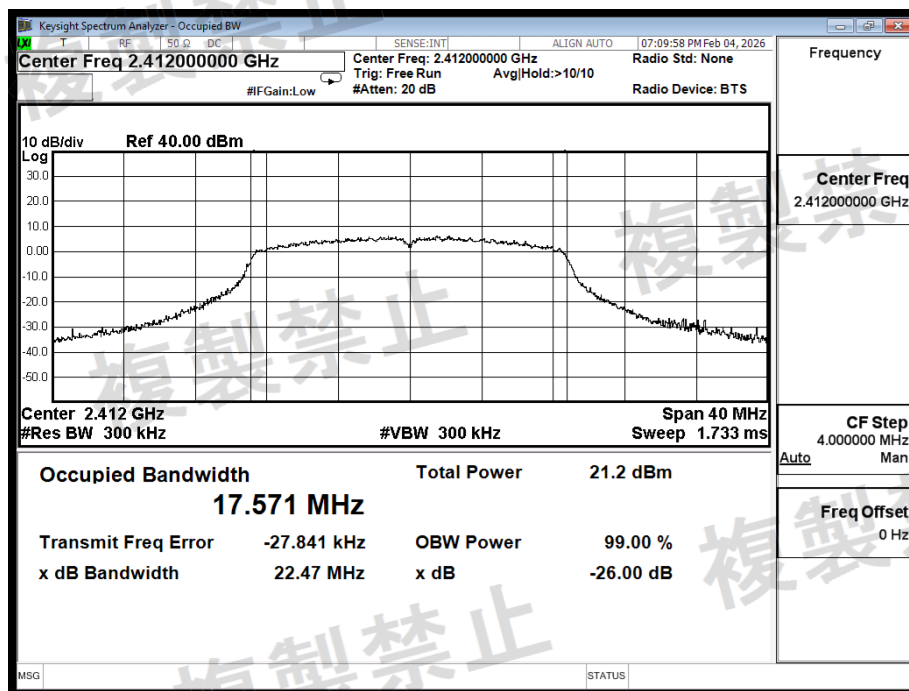
CH MidCH High

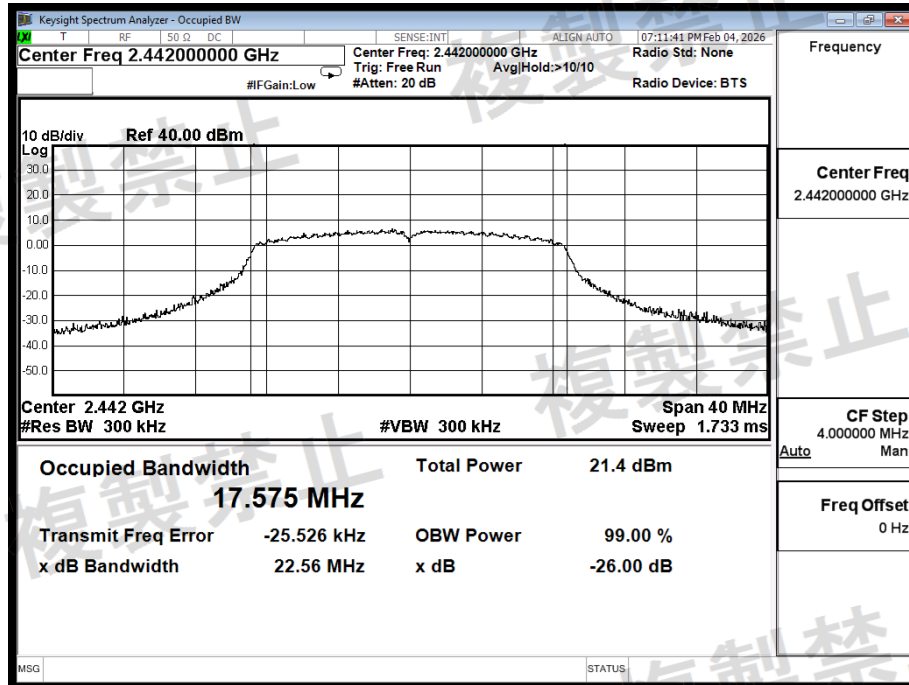
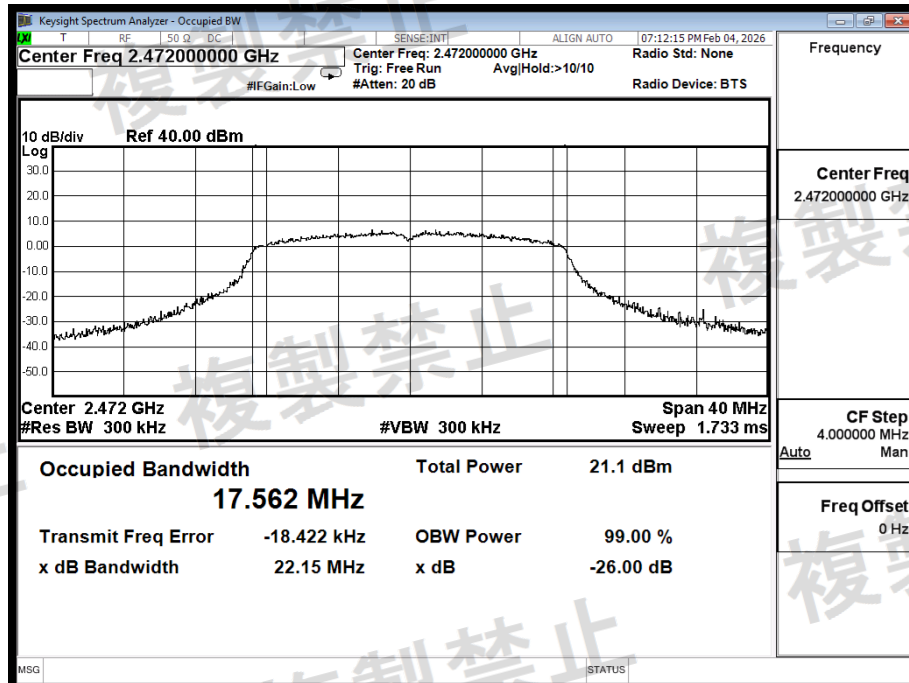
8.4 OCCUPIED BANDWIDTH (99%)**TEST RESULT**

CF=fo, SPAN=30MHz, RBW=VBW=300kHz, RLV=0dB, ATT=10dB, ST=auto

Modulation : 13 [Mbps]

Frequency (MHz)	Bandwidth (MHz)	Test Result	Remark
2412.0000	17.57	PASS	Normal Voltage : DC12V
2442.0000	17.58	PASS	
2472.0000	17.56	PASS	

TEST PLOTS**CH Low**

CH MidCH High

8.5 LIMITATION OF COLLATERAL EMISSIONS OF RECEIVER

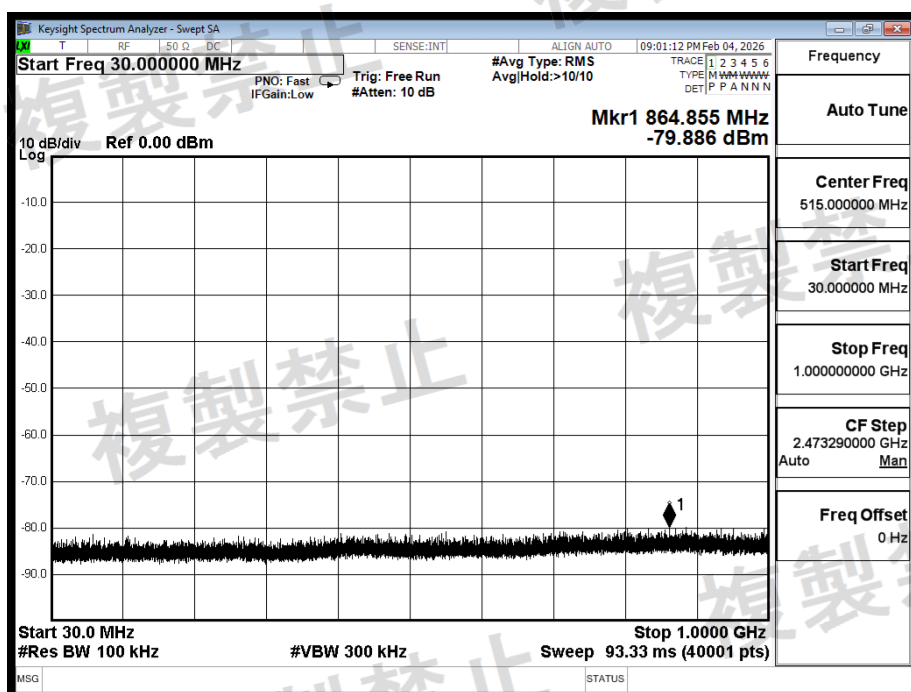
TEST RESULT

30MHz~1000MHz

Freq: 30MHz~1GHz, RBW=100KHz VBW=300KHz, RLV=0dB, ATT=10dB, ST=auto

Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (nW/MHz)	Test Result	Remark
864.86	-79.89	11.07	0.1313	PASS	Normal Voltage : DC12V

TEST PLOTS

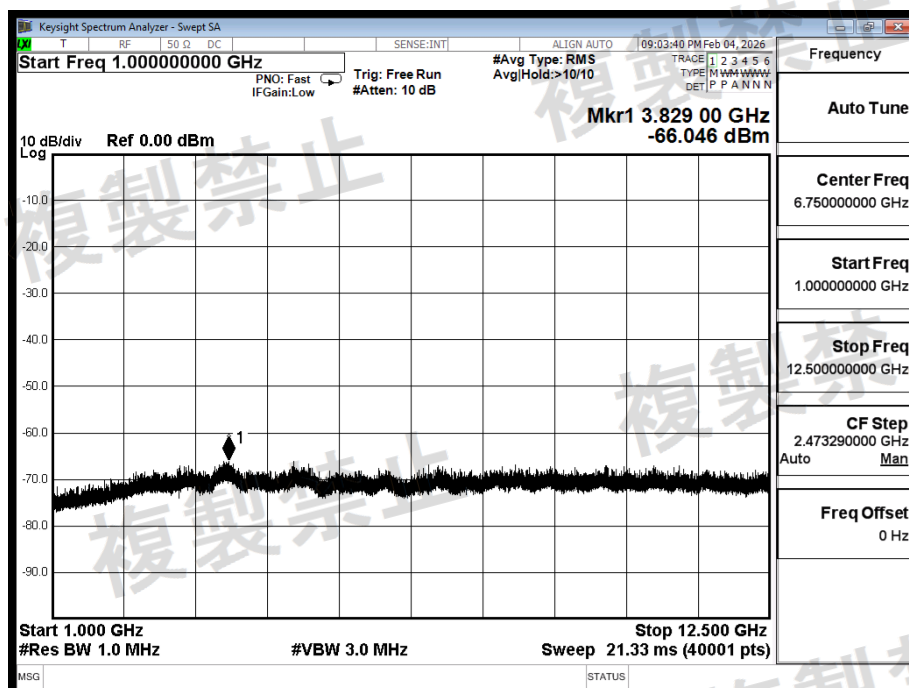


1GHz~12.5GHz

Freq: 1GHz~12.5GHz, RBW=1MHz VBW=3MHz, RLV=0dB, ATT=10dB, ST=auto

Frequency (MHz)	Reading (dBm)	Cable Factor (dB)	Total Level (nW/MHz)	Test Result	Remark
3829.00	-66.05	11.07	3.1798	PASS	Normal Voltage : DC12V

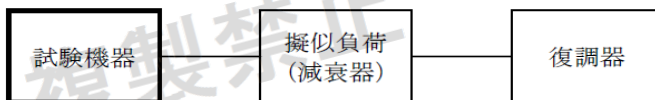
TEST PLOTS



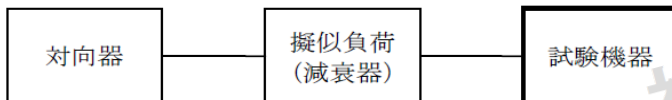
9. INTERFERENCE PREVENTION FUNCTION

9.1 MEASUREMENT SYSTEM DIAGRAM

(1) When sending an identification code



When receiving an identification code



(2) Condition of measuring instrument

(a) The demodulator shall be able to demodulate the transmission signal sent by EUT and display the content of the identification code.

(b) The counterpart device shall be capable of transmitting the same identification code as the transmission signal transmitted by EUT.

(3) Condition of test equipment

Normal use condition.

9.2 MEASUREMENT PROCEDURE

(1) When EUT has a function to automatically transmit an identification code

(a) Transmit the identification code specified in the Equipment Regulations from the test equipment.

(b) Check the identification code sent by the demodulator.

(2) When the test equipment has a function to automatically receive the identification code

(a) Transmit the identification code specified in the Equipment Regulations from the counterpart device.

(b) Confirm that communication is performed with the EUT using the dedicated jig.

(c) Transmit a code different from the identification code specified in the Equipment Regulations from the counterpart device.

(d) Confirm that EUT stops transmission or displays that the identification code is different.

9.3 TEST RESULT: THE UNIT DOES MEET THE REQUIREMENTS

Test result : The unit does meet the requirements. PASS