

TEST REPORT

Reference No...... : WTH26H02039126W003
Applicant..... : Shenzhen Jiayz photo industrial ., Ltd
Address..... : A16 Building, Intelligent Terminal Industrial Park of Silicon Valley
Power, Guanlan,Longhua District, Shenzhen, China
Manufacturer..... : Shenzhen Jiayz photo industrial ., Ltd
Address..... : A16 Building, Intelligent Terminal Industrial Park of Silicon Valley
Power, Guanlan,Longhua District, Shenzhen, China
Product Name..... : Digital UHF Wireless Audio System
Model No..... : Saramonic K9 XTX, Saramonic K9 XTX Solo, Saramonic K9 XTX Kit
Test specification..... : Article 2 paragraph 1 item 8
Date of Receipt sample : 2026-03-06
Date of Test..... : 2026-03-12 to 2026-03-26
Date of Issue..... : 2026-03-31
Test Report Form No. : TRFITEM8-RF-001-V01
Test Result..... : Pass

Prepared By:

Waltek Testing Group HCT (Shenzhen) Co., Ltd.

Address: Building B, Tianji Industrial Park, 1/F. & 2/F. & 3/F., No.30-9, Laijin Road, Xinsheng Community,
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Prepared by:

Macy Xie

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Macy Xie

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1. Test standards and Report version

1.1. Test Standards

The tests were performed according to following standards:

[Ordinance Article 2 paragraph 1 item 8](#): Specified Low Power Radio Equipment / Radio Microphone.

1.2. Report version

Revision No.	Date of issue	Description
Rev.00	2026-03-31	Original

2. Test description

Test Item	Result
Frequency Tolerance	PASS
Antenna Power and Antenna Power Tolerance	PASS
99% Occupied bandwidth	PASS
Spurious Emissions	PASS
Secondary Radiated Emission Strength	PASS
Adjacent Channel Leakage Power	PASS
Interference Prevention Function	PASS
Antenna Requirement	PASS
Housing requirements	PASS
Oscillation method	PASS

3. Summary

3.1. Client Information

Applicant:	Shenzhen Jiayz photo industrial ., Ltd
Address:	A16 Building, Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan,Longhua District, Shenzhen, China
Manufacturer:	Shenzhen Jiayz photo industrial ., Ltd
Address:	A16 Building, Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan,Longhua District, Shenzhen, China

3.2. Product Description

Name of EUT:	Digital UHF Wireless Audio System
Trade Mark:	Saramonic
Model/Type reference:	Saramonic K9 XTX
Listed Model(s):	Saramonic K9 XTX Solo, Saramonic K9 XTX Kit
Power supply:	DC 3V by battery or DC 5V from adapter
Battery Capacity:	/
Adapter information:	/
Software Version:	V2.56
Hardware Version:	V1.0
Note: The test data is gathered from a production sample, provided by the manufacturer. The model naming of others models listed in the report is different from main-test model Saramonic K9 XTX, but the circuit and the electronic construction do not change, declared by the manufacturer.	
RF Specification	
Operation frequency:	806.125 ~ 809.75 MHz
Modulation:	FSK
Channel number:	30
Channel separation:	0.125MHz
Antenna type:	Whip Antenna
Antenna gain:	1.2dBi
RF Rated output power:	10mW
Oscillation method:	16MHz

3.3. EUT operation mode

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting and receiving mode for testing.

3.4. Channel list and test frequency

Test Channel	Channel No.	Frequency (MHz)
CH _L	1	806.125
-	2	806.250
-	3	806.500
	--	--
CH _M	16	808.0
-	--	--
-	5	809.500
-	6	809.625
CH _H	30	809.750

3.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

○ AC/DC ADAPTOR	Manufacturer :	SHENZHEN JIYIN INDUSTRIAL CO.,LTD.
	Model No. :	JYSY005-0501000E
○ USB line	Length (m) :	0.6

3.6. Modifications

No modifications were implemented to meet testing criteria.

4. Test Environment

4.1. Test Facility

All measurement required was performed at Waltek Testing Group HCT (Shenzhen) Co., Ltd. at Building B, Tianji Industrial Park, 1/F. & 2/F. & 3/F., No.30-9, Laiyin Road, Xinsheng Community, Longgang Subdistrict, Longgang District, Shenzhen, Guangdong, China.

4.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

EUT supply power	RF module input power	Rated RF module power	Tolerance (%)
DC 3V	DC 3.3V	DC 3.3V	0
DC 2.7V	DC 3.3V	DC 3.3V	0
DC 3.3V	DC 3.3V	DC 3.3V	0
DC 5V	DC 3.3V	DC 3.3V	0
DC 4.5V	DC 3.3V	DC 3.3V	0
DC 5.5V	DC 3.3V	DC 3.3V	0
Conclusion: when the input voltage to EUT from the external source changes at 10%, the change of the input voltage to RF Module circuit of EUT is less 1%, another test item only need to test for normal condition.			
Other	Normal Temperature/Tnor:	24°C	
	Relative Humidity	56 %	
	Air Pressure	101 Kpa	

4.3. Statement of the measurement uncertainty

Parameter	Uncertainty
Frequency Error	70 Hz
Total RF power, conducted	0.51 dB
Spurious emissions, conducted	0.51 dB
DC and low frequency voltages	3%
Humidity	5%
Temperature	1°C

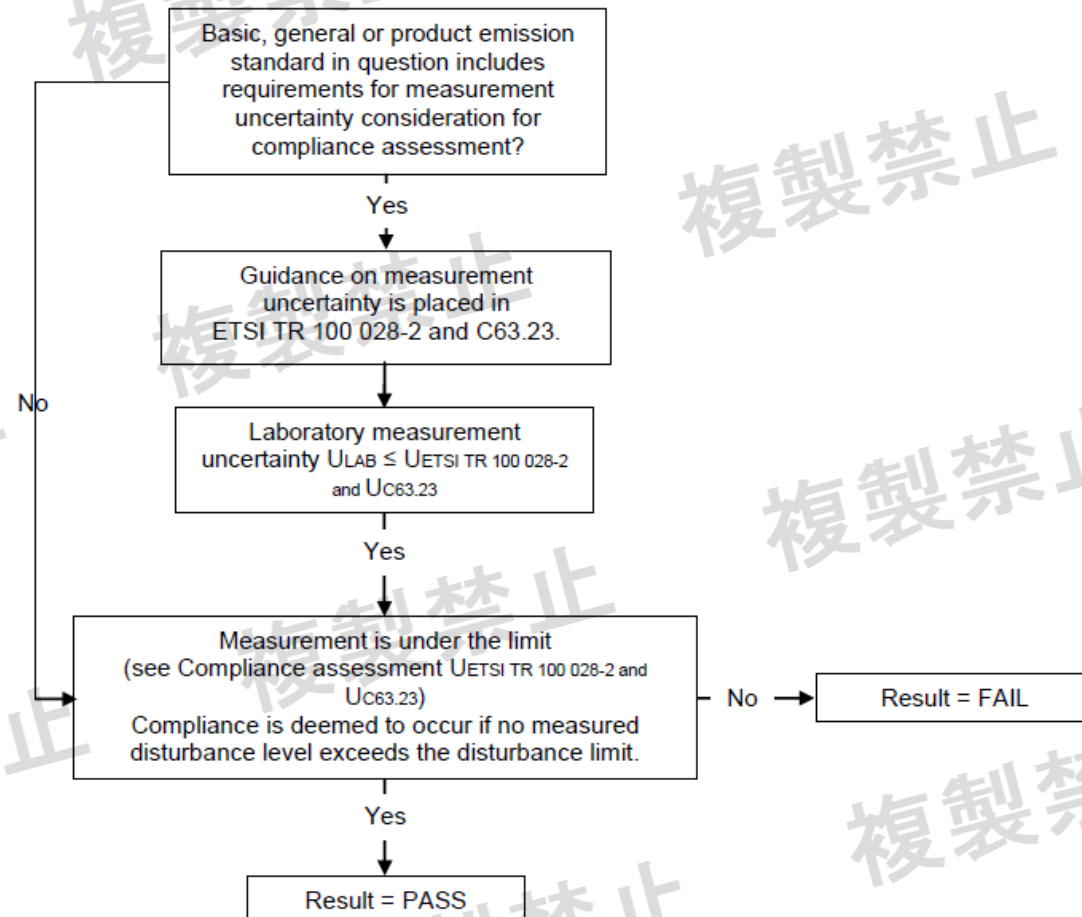
For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) K=1.96 or K=2 (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

4.4. Application of decision rule

Application of decision rule and statement of conformity is defined in document CNAS-GL015 Decision rule and measurement uncertainty.

As a general rule Pass/Fail decisions are based on simple acceptance rule and acceptance limits chosen based on simple acceptance ($w = 0$, $AL = TL$) except if a decision rule is governed by particular standard or guidance document.

Decision rule:



4.5. Equipments Used during the Test

Management number	Description	Manufacturer	Model	Serial Number	Cal Date	Due Date	Calibration Methods
WTHW1001A1-003	Spectrum Analyzer	Keysight	N9020A	/	2025-12-10	2026-12-09	JJF 1396-2013
WTHW1003A1-001	Power Meter	DARE!!	RPR3006W	/	2025-12-10	2026-12-09	JJF 1757-2019
WTHW1002A1-001	Vector Signal Generator	Agilent	N5182A	MY47071034	2026-01-14	2027-01-13	JJF 1931-2021

Software List

Description	Manufacturer	Model	Version
Test Software	Pomis	PTS2450	2.0.0.1 [#]

[#]Remark: indicates software version used in the compliance certification testing
Calibration laboratory: CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd
Calibration laboratory address: ShengHui Hongxing Chuangzhi Square, Tongren Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen
Calibrated by:Jinhui Liu
Calibration Methods: Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act

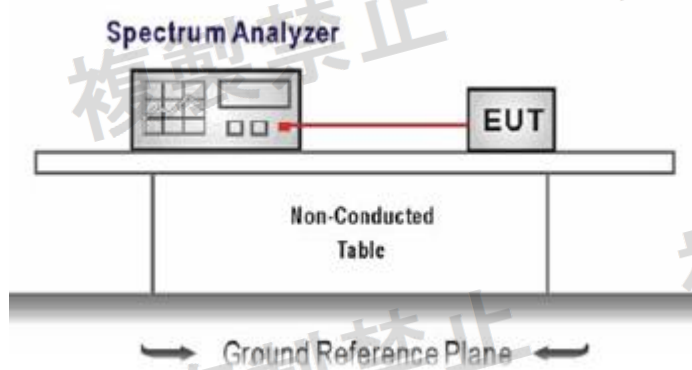
5. Test conditions and Results

5.1. Frequency Tolerance

LIMIT

20ppm

TEST CONFIGURATION



TEST CONDITION

Without modulation, continuously transmitting

SPECTRUM SET:

Test Frequency= test channel,

RBW=VBW=10KHz, Span=500KHz/1MHz, Sweep time=Auto, Detector mode=Positive peak

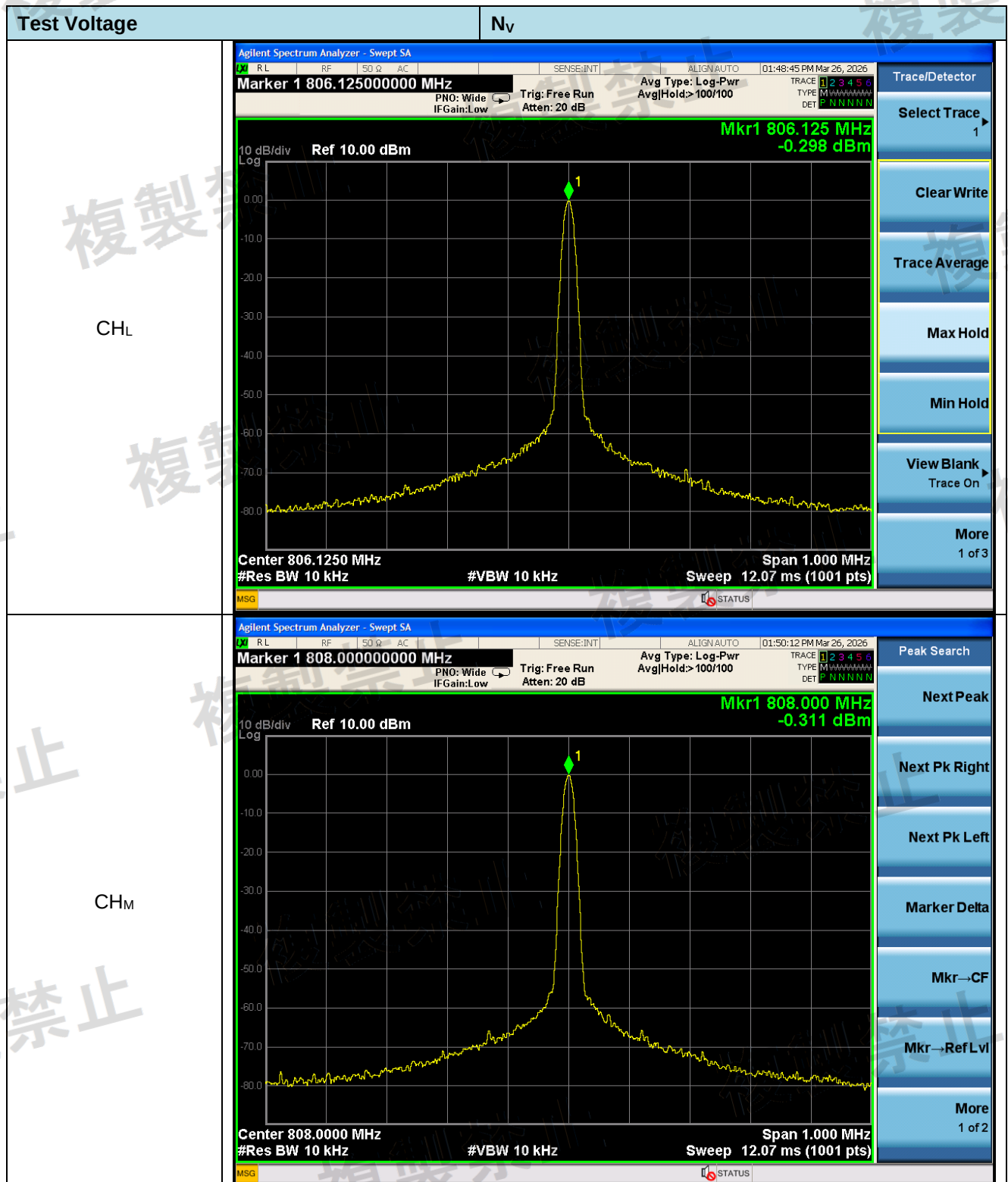
TEST RESULTS

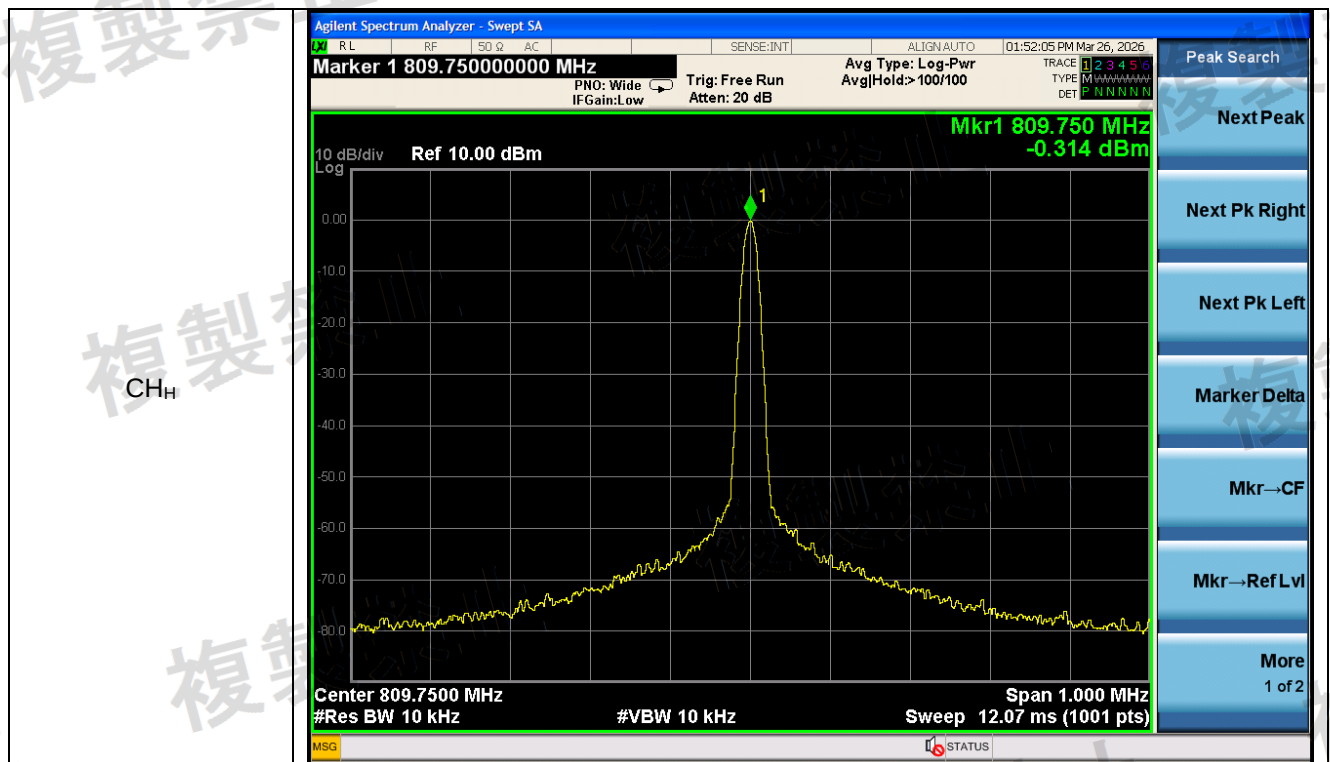
☒ Passed
 ☐ Not Applicable

Please refer to the below test data:

Test voltage	Test Channel	Rating Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Limit (ppm)	Result
N _v	CH _L	806.125	806.125	0.00	±20.00	Pass
	CH _M	808.00	808.000	0.00		
	CH _H	809.750	809.750	0.00		

Test plot as follows:



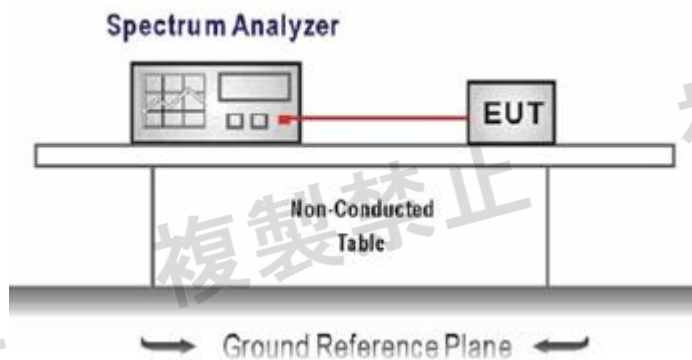


5.2. Antenna Power and Antenna Power Tolerance

LIMIT

No.	Frequency Band	Antenna Power Limit	Antenna Power Tolerance Limit(%)
1	70MHz Band, Type D	0.01W or less	-50~+20
2	300MHz Band, Type C	0.001W or less	-50~+20
3	800MHz Band, Type B	0.01W or less	-50~+50

TEST CONFIGURATION



TEST CONDITION

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

- 1) Search Frequency of Peak Power
Test Frequency: test channel,
RBW=VBW=1MHz, Span=4MHz, Sweep time=Auto, Detector mode =Positive peak
- 2) Measure of average burst power
Test Frequency: frequency of peak power
RBW=VBW=1MHz, Span=0Hz, Sweep time=Auto, Detector mode=RMS
- 3) Antenna power= average burst power

TEST RESULTS

☒ Passed ☐ Not Applicable

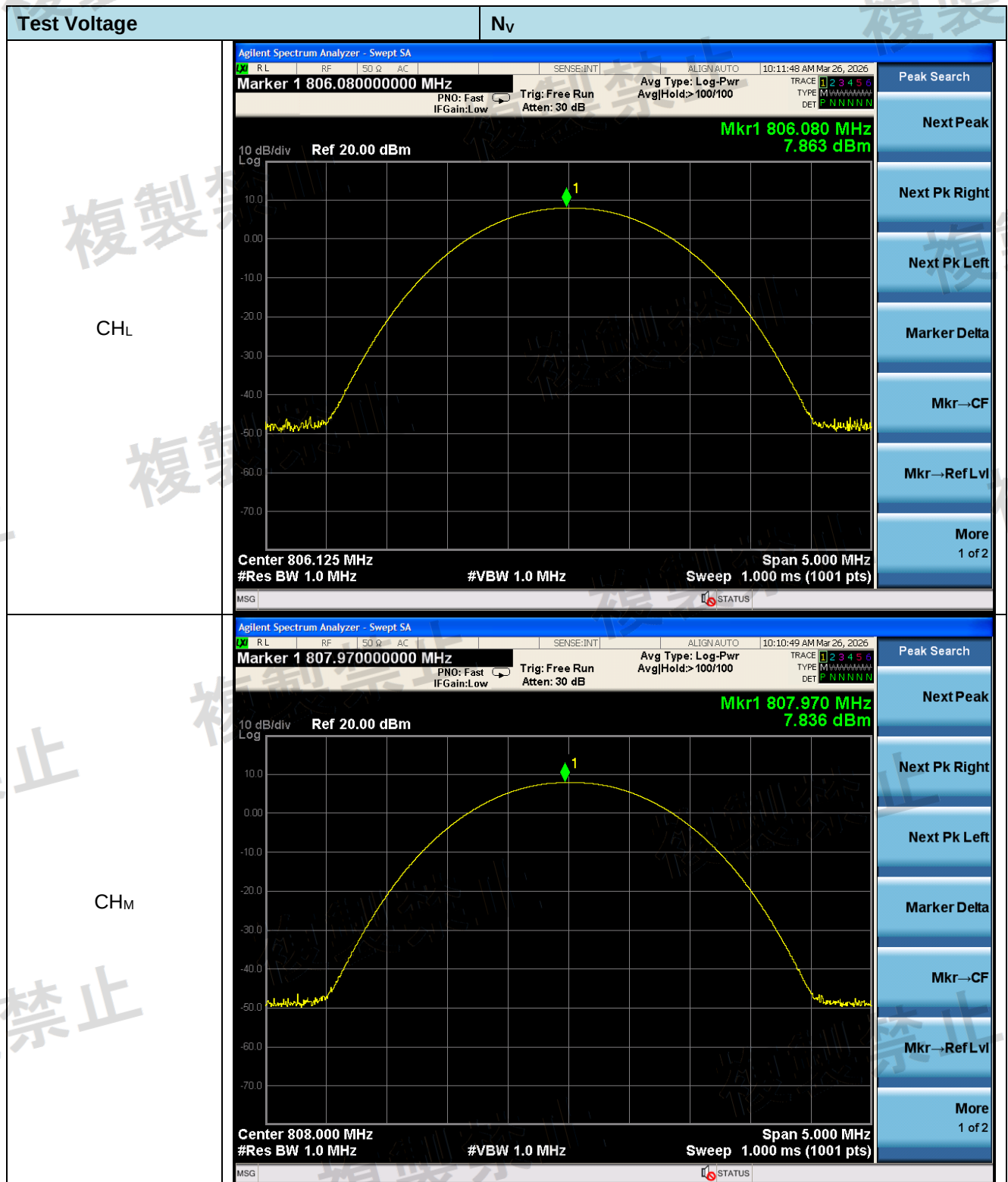
Please refer to the below test data:

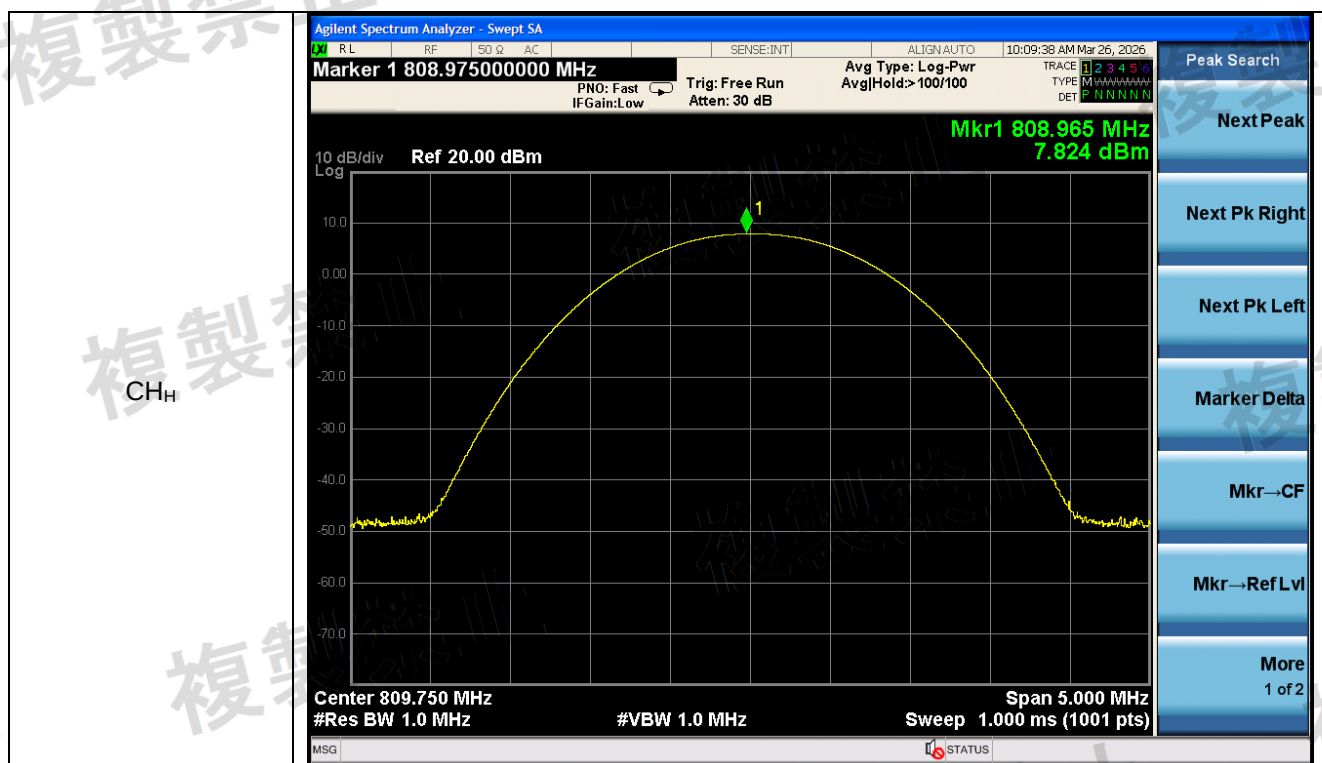
Test Voltage					Nv			
Test channel	Antenna power (dBm)	Antenna power (W)	Limit (%)	Result	Rated Power (W)	Tolerance (%)	Limit (%)	Result
CH _L	7.863	0.00611	0.01W or less	Pass	0.01	-38.9	-50~+50	Pass
CH _M	7.836	0.00608		Pass	0.01	-39.2		Pass
CH _H	7.824	0.00606		Pass	0.01	-39.4		Pass

Note:

- 1) Tolerance = (Antenna power – Rated power) / Rated power *100%

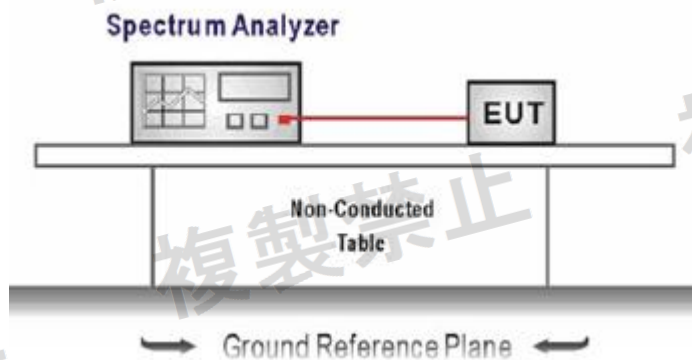
Test plot as follows:





5.3. Occupy Bandwidth (99%)**LIMIT**

Frequency Band	Limit
70MHz Band, Type D	60kHz or less
300MHz Band, Type C	30kHz or less
800MHz Band, Type B	FM (except FSK): 110kHz or less FSK, PM, QAM: 192kHz or less

TEST CONFIGURATION**TEST CONDITION**

- Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

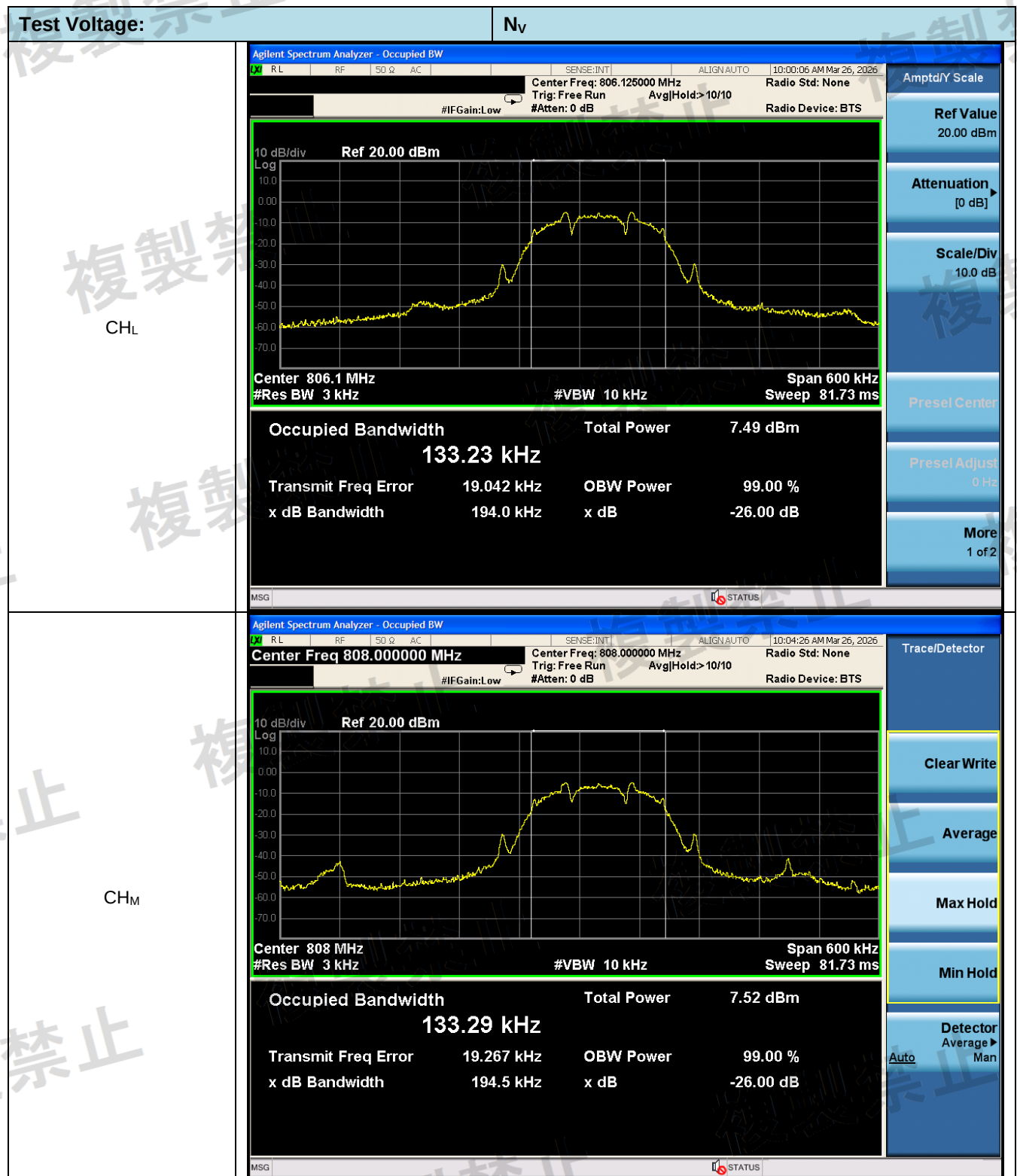
Test Frequency: test channel,
RBW=3KHz, VBW=10KHz, Span=200KHz, Sweep time=Auto, Detector mode=Positive peak

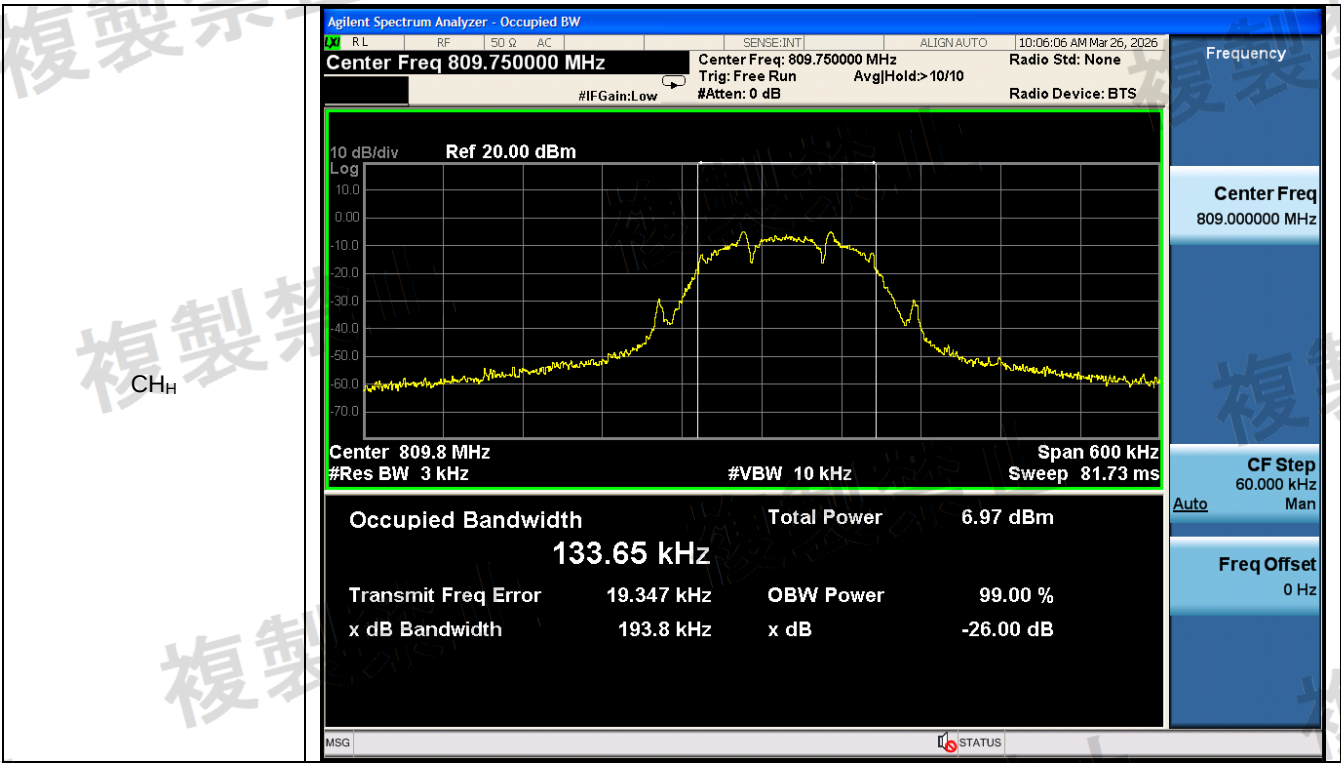
TEST RESULTS

☒ Passed ☐ Not Applicable

Please refer to the below test data:

Test voltage	Test channel	99% occupy bandwidth (KHz)	Limit (KHz)	Result
Nv	CH _L	133.23	≤192	Pass
Nv	CH _M	133.29	≤192	Pass
Nv	CH _H	133.65	≤192	Pass



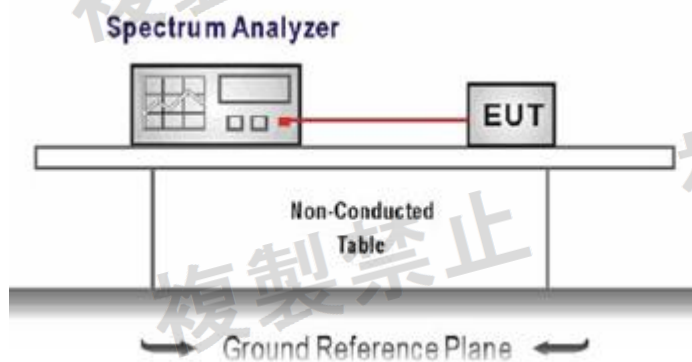


5.4. Spurious Emission

LIMIT

Frequency Band	Limit
70MHz Band, Type D	2.5 μ W or less
300MHz Band, Type C	
800MHz Band, Type B	

TEST CONFIGURATION



TEST CONDITION

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

Test Frequency: test channel

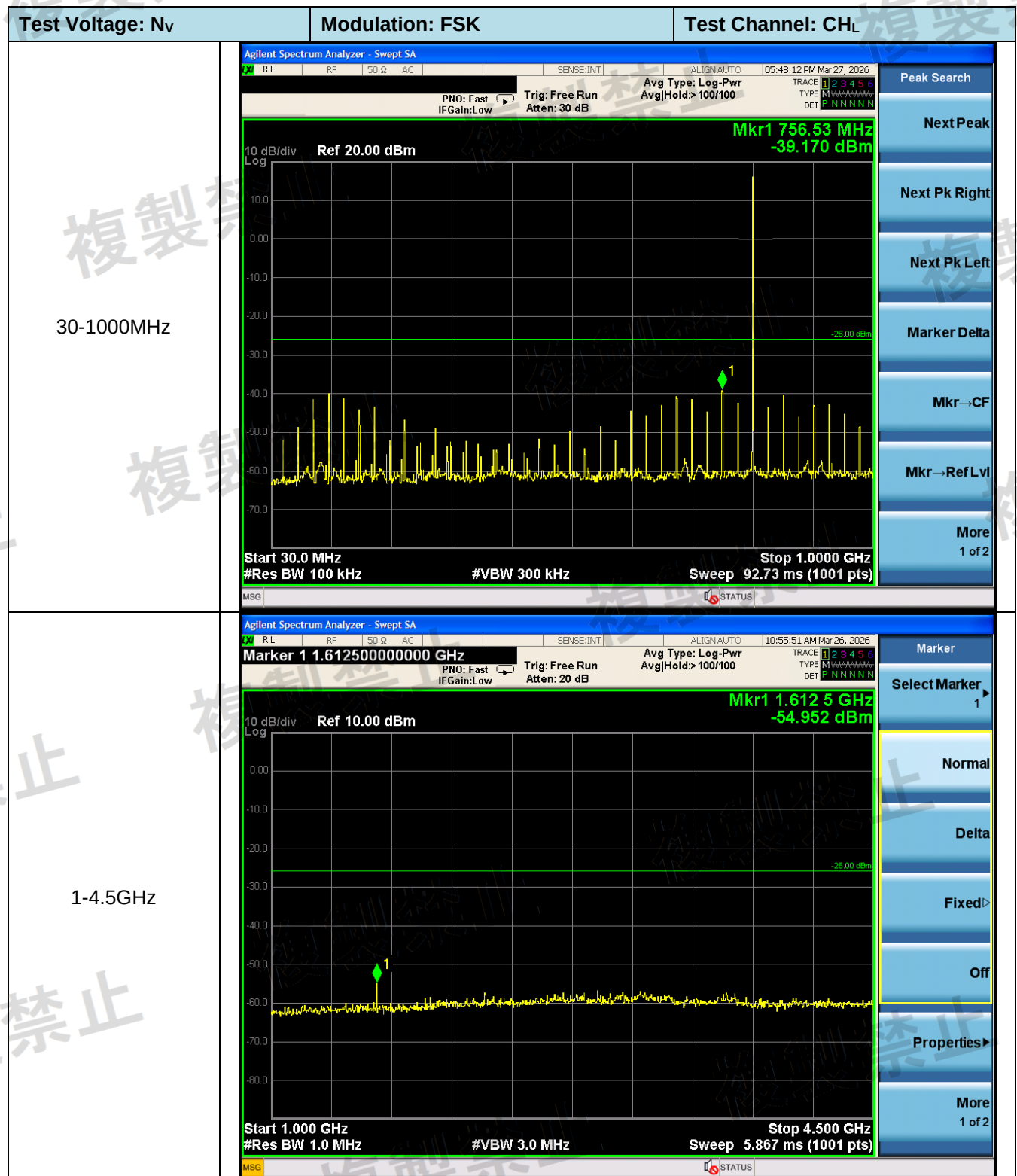
30MHz-1GHz: RBW=100KHz, VBW=300KHz, Sweep time=Auto, Detector mode=Positive peak

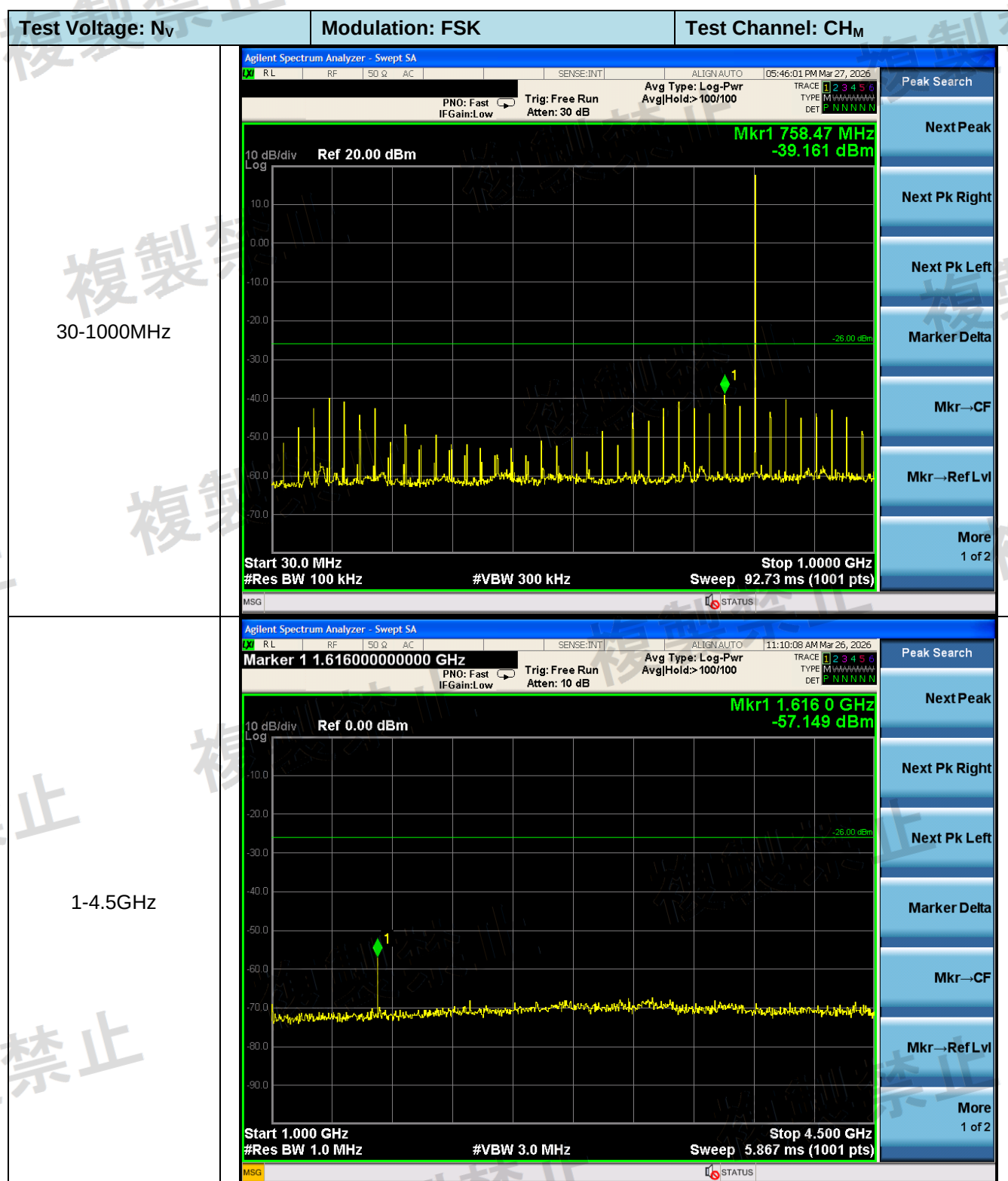
1GHz-4.5GHz: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector mode=Positive peak

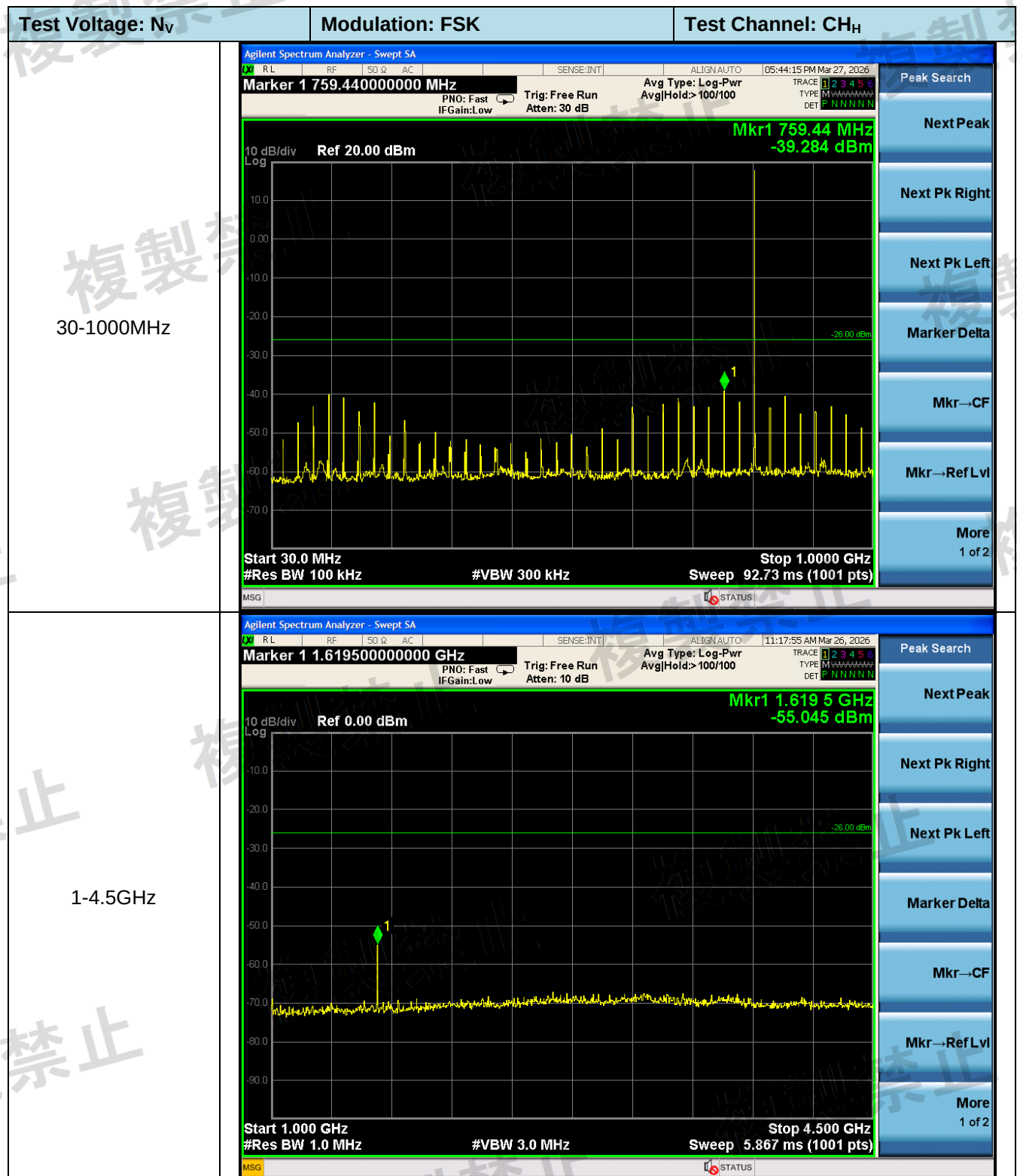
TEST RESULTS

☒ Passed ☐ Not Applicable

Please refer to the below test data:





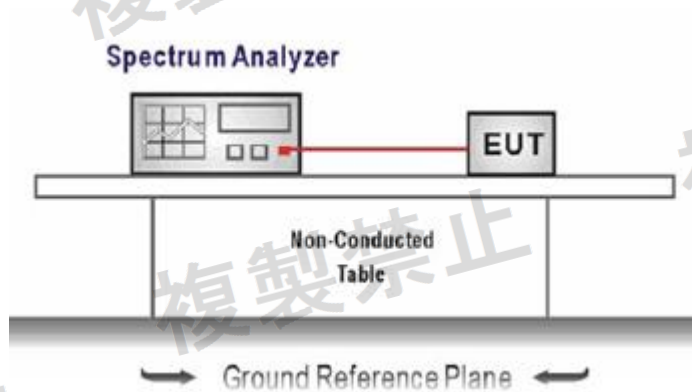


5.5. Secondary Radiated Emission

LIMIT

Frequency Band	Limit
70MHz Band, Type D	4 nW or less
300MHz Band, Type C	
800MHz Band, Type B	

TEST CONFIGURATION



TEST CONDITION

Test diffusion code and modulate with standard coding test signal

SPECTRUM SET:

Test Frequency: test channel,

Below 1GHz, RBW=100KHz,VBW=100KHz;

Above 1GHz, RBW=VBW=1MHz,

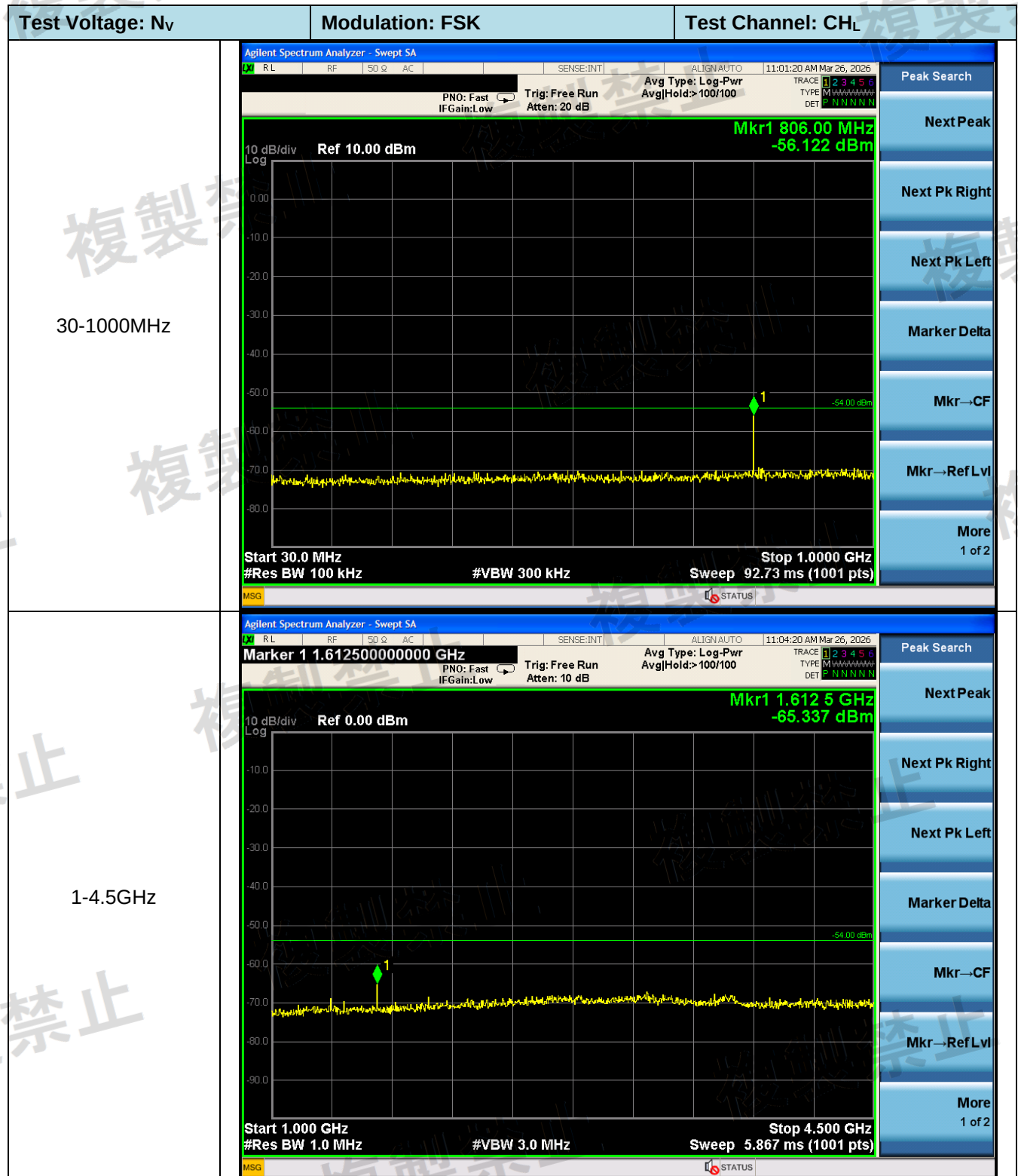
Sweep time=Auto, Detector mode=Positive peak

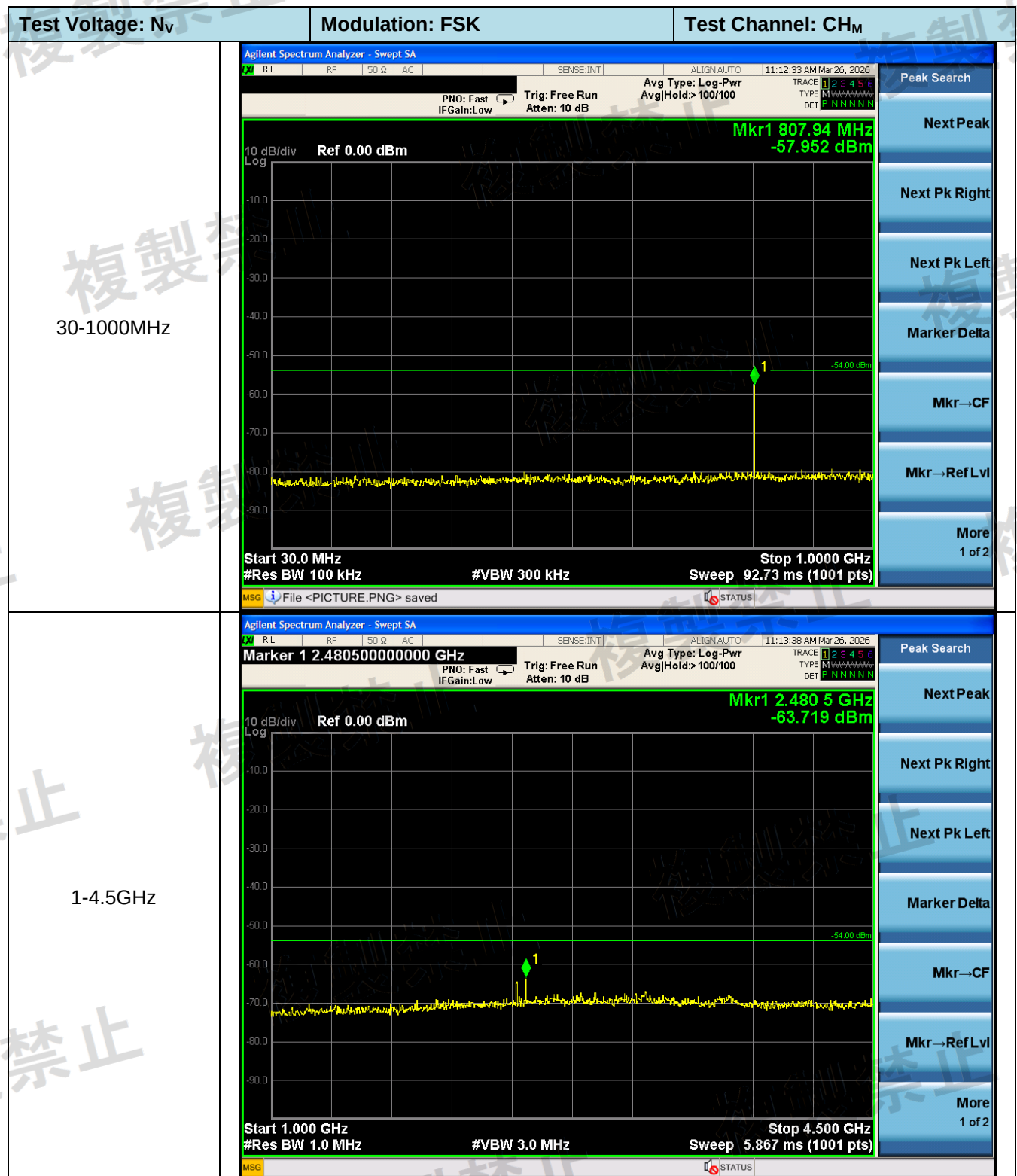
TEST RESULTS

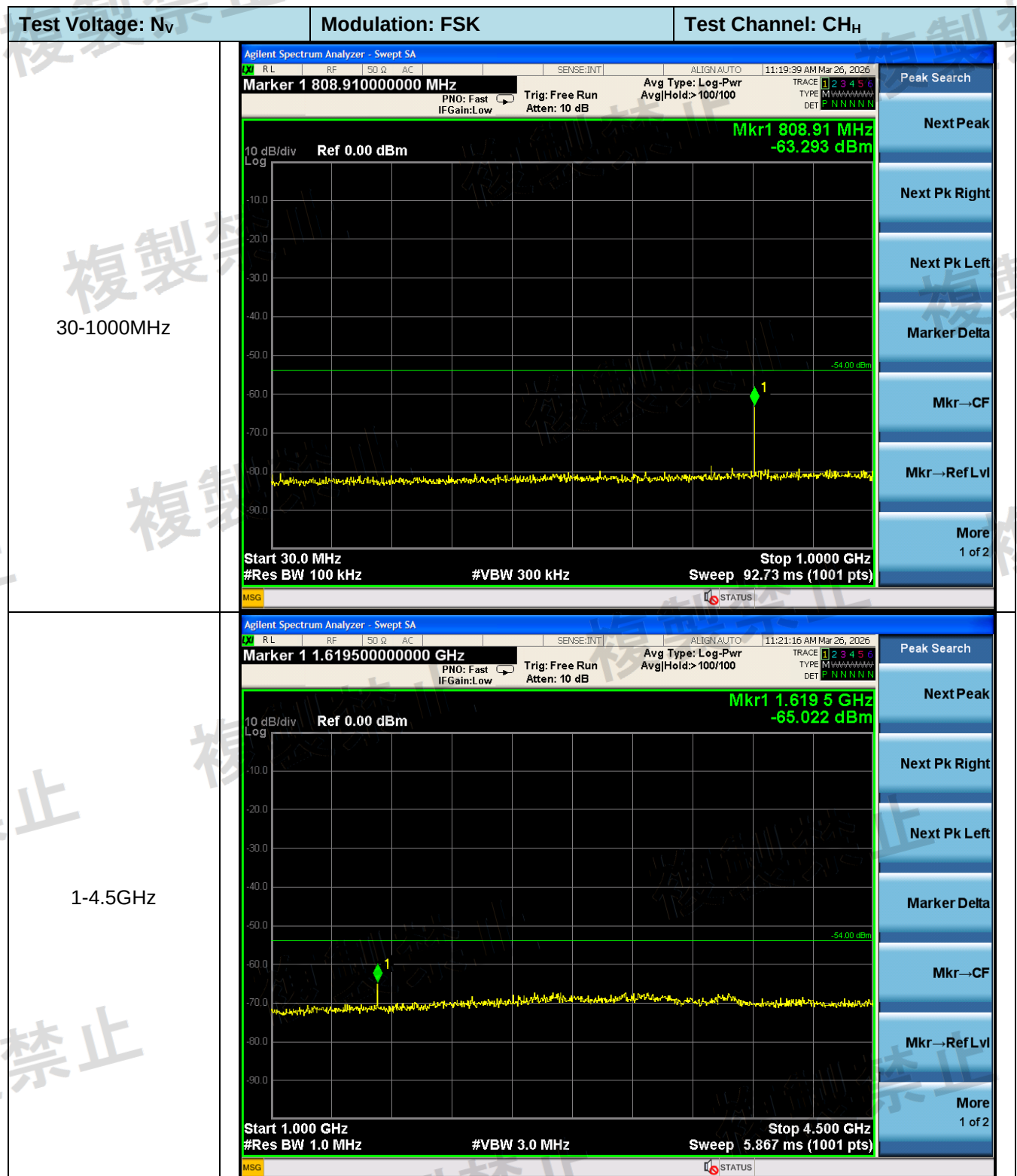
☒ Passed

☐ Not Applicable

Please refer to the below test data:







5.6. Interference Prevention Function

LIMIT

Identification code: 48bits or more

Mac IP Lits: MAC Scan

TEST CONFIGURATION



TEST CONDITION

Test diffusion code and modulate with standard coding test signal

TEST PROCEDURE

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

TEST RESULTS

☒ Passed ☐ Not Applicable

Note: Radio interference prevention capability was conformed.

address: 58:54:4D:00:00:08

5.7. Adjacent Channel Leakage Power

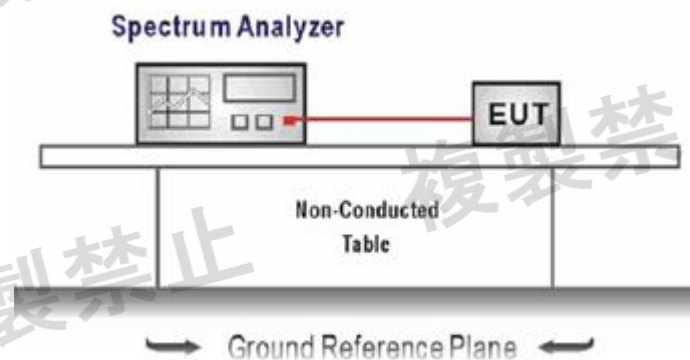
LIMIT

Frequency Band	Limit
70MHz Band, Type D	-60 dBc(± 30 kHz band of the frequency which separated 120Hz from Cf)
300MHz Band, Type C	-60 dBc(± 15 kHz band of the frequency which separated 50kHz from Cf)
800MHz Band, Type B	FM (except FSK): -60 dBc(± 55 kHz band of the frequency which separated 250kHz from Cf) FSK, PM, QAM: -40 dBc(± 96 kHz band of the frequency which separated 375kHz from Cf)

TEST PROCEDURES

Test diffusion code and modulate with standard coding test signal

TEST SETUP



SPECTRUM SET:

Test Frequency: test channel,

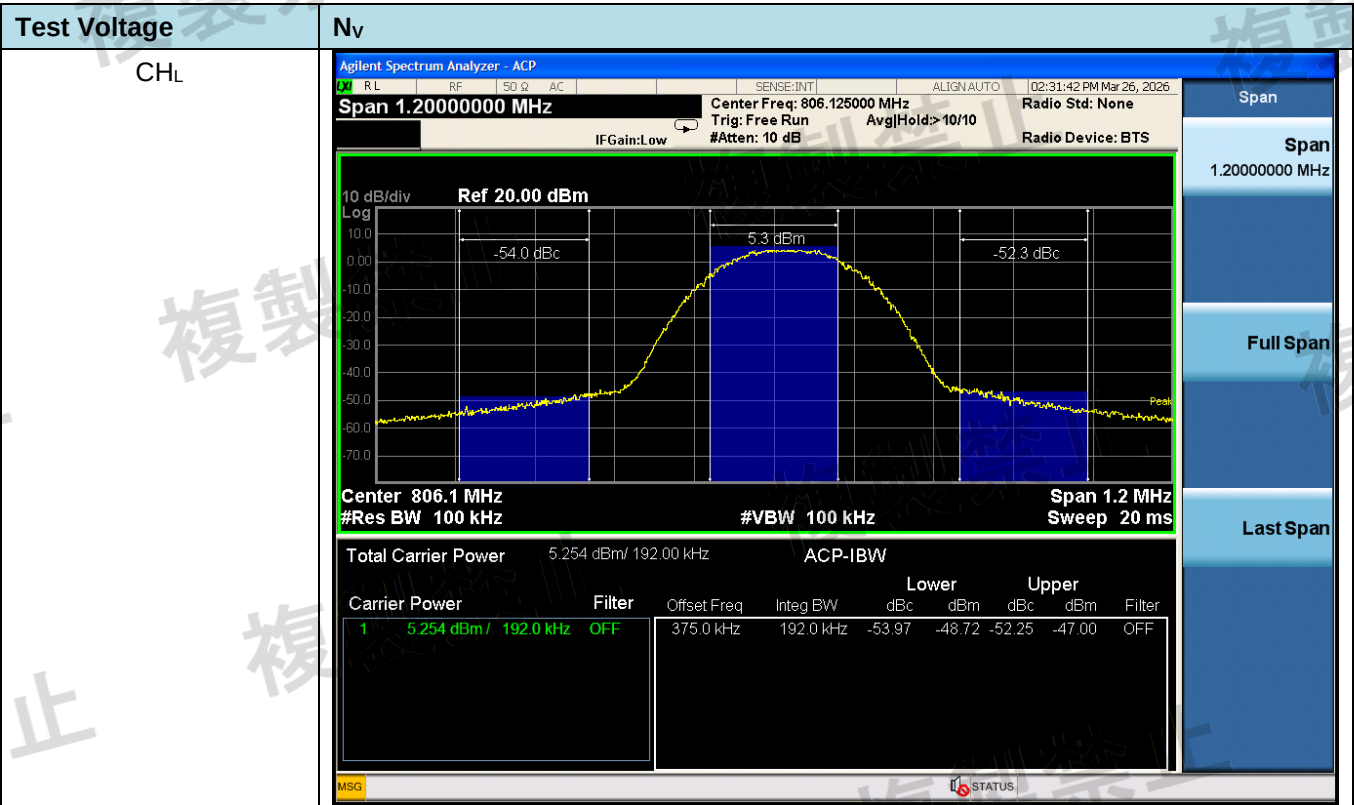
RBW=VBW=100Hz, Span=375KHz, Sweep time=Auto, Detector mode =Positive peak

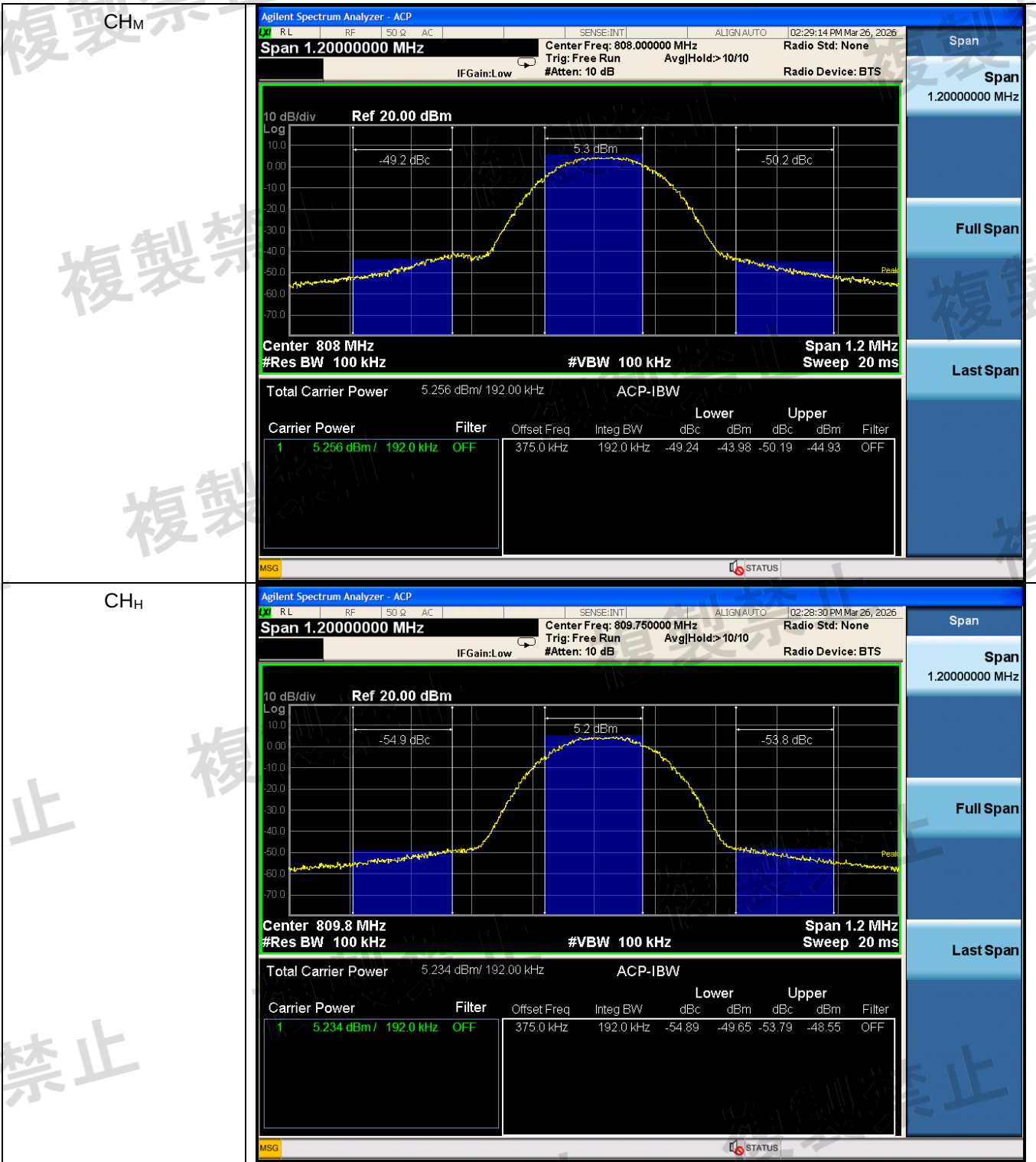
TEST RESULTS

☒ Passed ☐ Not Applicable

Please refer to the below test data:

Test voltage			Nv			Limit (dBc)	Result
Type	Test channel	Frequency offset (kHz)	Power level (dBc)				
			Lower	Upper			
FSK	CH _L	375	-48.72	-47.00		-40	Pass
	CH _M	375	-43.98	-44.93		-40	
	CH _H	375	-49.65	-48.55		-40	





5.8. Antenna Requirement

Standard requirement :

Antennas shall be designed without a feeder grounding device.
Transmitter Antenna Gain shall be 2.14dBi or less.

EUT Antenna:



The Antenna is soldering on the PCB and no consideration of replacement.
Antenna structure shall not have feeder and grounding device.
The max gain of the antenna is 1.2dBi.
Meet the standard antenna requirements.

5.9. Housing Requirement

Standard requirement :

The radio equipment shall be housed in a single cabinet, and the cabinet shall not be capable of being opened easily. ("Power source", "Control device", "Operating state display device", "Volume control device", "Handset", "Frequency switching device", "Transmission and reception switching device" are excluded.)

The device is fixed with glue and cannot be opened from the outside, otherwise it will be damaged.

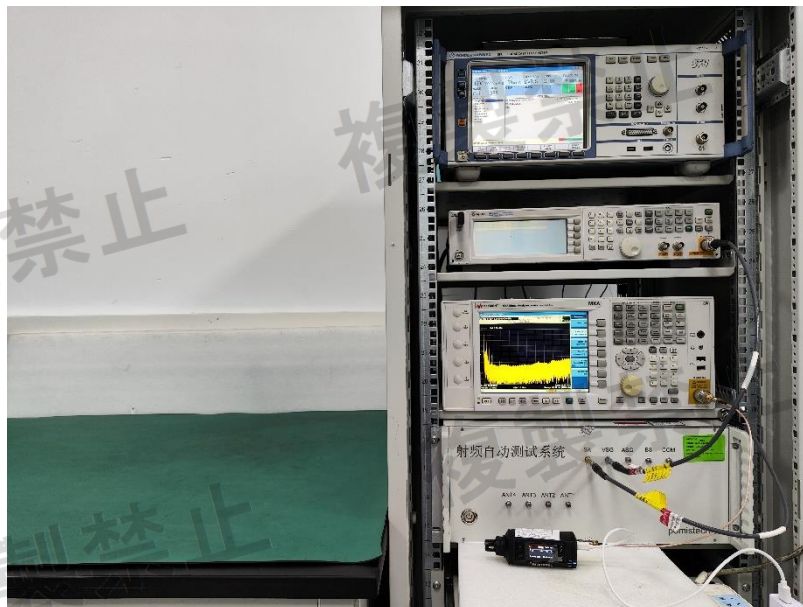


5.10. Oscillation method

The Oscillation method is crystal oscillator method which uses crystal oscillator to control the Oscillation frequency.

The crystal is 16MHz.

6. Test Setup Photos of the EUT



7. External and Internal Photos of the EUT

Please refer to WTH26H02039126W001 report.

Statement

1. This report is considered invalid without approved signature and special seal;
2. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which HCT hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. The “*” in CNAS logo report means that the test item(s) was (were) currently not applying for CNAS accreditation
5. Without written approval of HCT, this report can't be reproduced except in full.
6. For any claim of the report, just refer to the testing unit in 15 days, in case it is not in the above limited time, the claim shall be dismissed.
7. If not explicitly stated otherwise in the standard, the test is passed if the measured value is equal to or below(above) the limit line, regardless of the measurement uncertainty. If the measured value is above(below) the limit line, the test is not passed.
8. Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EA-4/02(Dec.1999), IEC Guide 115:2007,CNAS-GL007:2020, CNAS-CL01-G003:2021and other relevant internal HCT-procedures. Further information about measurement uncertainties will be given on request.
9. All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Further information about traceability will be given on request.

-----End of Report-----