

TEST REPORT

Reference No..... : WTX23X09203939W
Applicant : Shenzhen Xinyi Industrial Co., Ltd.
Address : Room A12-07, Gangshengguoji Center, Xinniu Road,Xinniu Community,
Minzhi Street, Longhua District, Shenzhen, Guangdong, China
Manufacturer : Zhuhai Meding Technology Co.,Ltd
Address : Floor 2,Building 6A,ZHIZAO DAJIE,JINHE ROAD,HONGQI TOWN,JINWAN
DISTRICT,ZHUHAI,GUANGDONG
Product Name : Portable Outdoor Radio
Model No..... : ZWS-702
Standards : Item 19 of Article 2 Paragraph 1
Date of Receipt sample : 2023-09-15
Date of Test..... : 2023-09-15 to 2023-10-24
Date of Issue : 2023-10-24
Test Report Form No. : WTX_Item 19_2_1W
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

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Tested by:



Gala Wang

Approved by:



Silin Chen

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Version No.	Date of issue	Description
Rev.00	2023-10-24	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Portable Outdoor Radio
Trade Name:	ZHIWHIS
Model No.:	ZWS-702
Adding Model(s):	ZWS-702X
Rated Voltage:	Battery DC 3.7V
Battery Capacity:	4000mAh
Power Adapter:	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model ZWS-702, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Bluetooth	
Bluetooth Version:	V5.0 (BR/EDR mode)
Frequency Range:	2402~2480MHz
Max.RF Rated Output	0.03mW/MHz
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Data Rate:	1Mbps, 2Mbps, 3Mbps
Quantity of Channels	79
Channel Separation:	1MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	1.7dBi

➤ Center Frequency of Each of Channel:

BR/EDR	
Channel	Frequency (MHz)
00	2402
01	2403
⋮	⋮
39	2441
⋮	⋮
77	2479
78	2480

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1.2 Test Standards

The tests were performed according to following standards:

Article 2 paragraph 1 item 19: Low power data communications system in the 2.4GHz band.

MIC Notice No.88 Appendix No.43: Test Method for Radio Equipment specified in Article 2 paragraph 1 item 19 of Regulations for Certification

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with test method for radio equipment specified in MIC public notice 88:2004, annex 43 for certification.

1.4 Test Facility

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx/Rx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest

possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	Low Channel	2402MHz
TM2	Middle Channel	2441MHz
TM3	High Channel	2480MHz
TM4	Hopping	2402-2480MHz

Modulation Configure			
Modulation	Packet	Packet Type	Packet Size
GFSK	DH1	4	27
	DH3	11	183
	DH5	15	339
$\pi/4$ DQPSK	2DH1	20	54
	2DH3	26	367
	2DH5	30	679
8DPSK	3DH1	24	83
	3DH3	27	552
	3DH5	31	1021

Note: The Bluetooth has been tested on the modulation of GFSK, ($\pi/4$)DQPSK and 8DPSK, all modulation modes complied with the requirements and record the worst case. BLE mode has no such data.

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
Type-C Cable	0.5	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
AC adapter	Mediacom	BOS0502200-02A	/

1.6 Test Conditions

Supply Voltage				
	EUT supply power V	module input power V	Rated module power V	Tolerance (%)
Normal	3.70	3.3	3.3	
+10%	4.07	3.3	3.3	
-10%	3.33	3.3	3.3	
Others				
Temperature (°C)		20-25		
Relative humidity		51 %.		
ATM Pressure:		1019 mbar		
Note 1: When the input voltage is reduced or increased by 10%, the regulator voltage changes of less than 1%. So the following test items are conducted in the normal voltage.				
Note 2: The regulator voltage is integral within IC12.				

1.7 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	9kHz-6GHz	±0.42dB
Frequency Tolerance	9kHz-6GHz	±1×10 ⁻⁷
Occupied Bandwidth	9kHz-6GHz	±3%
Dwell Time	9kHz-6GHz	±1%
Transmitter Spurious Emissions	9kHz-25GHz	±2.76dB
Receiver Spurious Emissions	9kHz-25GHz	±2.76dB

1.8 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	N9020A	US47140102	2023-02-25	2024-02-24
Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2023-02-25	2024-02-24
Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2023-02-25	2024-02-24
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
<p>Remark:</p> <p>(a) Calibration conducted by the National institute of information and communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph in JRL.</p> <p>(b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).</p> <p>(c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).</p> <p>(d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c).</p> <p>The calibration corresponds to c described above.</p> <p style="text-align: right;">From JRL Article 24-2, paragraph 4, Item 2 Notice: calibration duration for above equipments is 1 year</p>					

1.9 Calibration Information

Calibration lab: Guangzhou LiSai Metrology & Test Co., Ltd.

Address: No.8.South Street Shi Ji Institute Guangzhou.Guangdong.China

Calibrated by: Feng Jiaqiang

2. SUMMARY OF TEST RESULTS

MIC RULES	DESCRIPTION OF TEST	RESULT
Item 19	RF Output Power	Compliant
Item 19	Frequency Tolerance	Compliant
Item 19	Occupied Bandwidth /Spreading Bandwidth/Spread Factor	Compliant
Item 19	Holding time of hopping frequency	Compliant
Item 19	Transmitter Spurious Emissions	Compliant
Item 19	Receiver Spurious Emissions	Compliant
Item 19	Interference Prevention Function	Compliant
Item 19	Carrier Sending Function	N/A

N/A: not applicable.

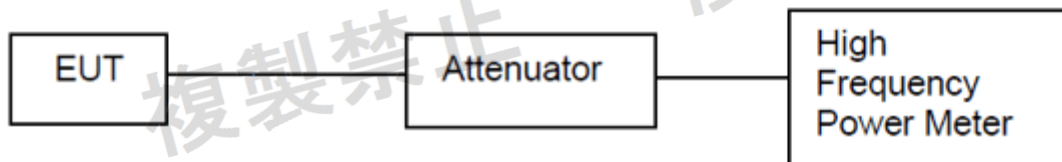
3. RF OUTPUT POWER

3.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1, the antenna power of the transmitter shall be one of the items below.

- (1) The antenna power of the transmitting equipment which uses the frequency hopping method (including a combination of the frequency hopping method and direct spread method or a combination of the frequency hopping method and OFDM), and that uses emissions of a frequency from 2.427MHz to 2.470.75MHz shall provide a mean power within a bandwidth of 1MHz of 3mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- (2) The antenna power of the transmitting equipment which uses OFDM or the spread spectrum method and does not conform to (1) above shall provide the mean power within a bandwidth of 1 MHz of 10mW or less for the 20MHz system and 5 mW for the 40MHz system in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- (3) The antenna power of the transmitting equipment other than that stated in (1) and (2) above shall be 10 mW or less. and the maximum permit tolerance is +20% or -80%.

3.2 Test Setup Block Diagram



3.3 Test Procedure

Refer to Schedule 43: Wireless Equipment Test Methods published in Certification Regulations, Article 2-1(19)

3.4 Summary of Test Results/Plots

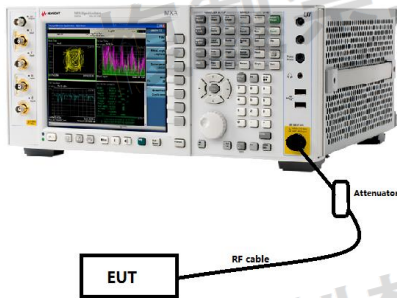
Please refer to Appendix A

4. FREQUENCY TOLERANCE

4.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1, the maximum permit tolerance of frequency is 50ppm.

4.2 Test Setup Block Diagram



4.3 Test Procedure

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW, VBW=10KHz, Span = 1MHz.
- 4 'Maximum Hold' mode may be used to accumulate the measurement result over several scans provided emission is repetitive in nature.
5. Repeat above procedures until all frequency measured was complete.

4.4 Summary of Test Results/Plots

Please refer to Appendix B

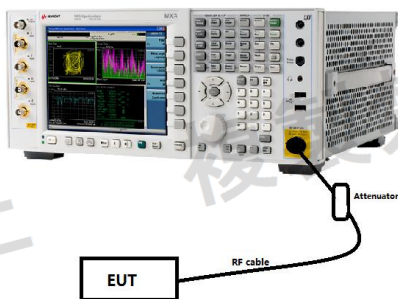
5. OCCUPIED BANDWIDTH/SPREAD BANDWIDTH/SPREAD FACTOR

5.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. For FHSS the occupied bandwidth shall not exceed 83.5MHz, the spreading bandwidth no less than 500kHz, and the operating frequency range lies within the band 2400MHz to 2483.5 MHz.

For BLE The limit of 99% occupied bandwidth should be within 26MHz, and the spreading bandwidth no less than 500kHz

5.2 Test Setup Block Diagram



5.3 Test Procedure

(1) Set up the spectrum analyzer as the follows:

Center frequency: Test frequency

Sweep bandwidth: 2 to 3.5 times of allowance

Resoluble bandwidth: less than 3% of allowance

Video bandwidth: Equivalent to resolvable bandwidth

Sweep time: Minimum time by which measuring accuracy is assured (In case of burst wave, 1 burst shall be contained per 1 sample)

Sampling points: More than 400 points

Sweep mode : Continuous sweeping

Detection mode: Positive peak

Display mode: Maximum holding

(2) Repeat the sweeping till no change was observed on the display and enter all values of data point to the computer as array variable.

(3) About all data, convert dB value to antilogarithm of electric power dimension.

(4) Add up the electric power of all data and record it as "Sum total of electric power".

(5) Adding up data in order from the lowest frequency to upper frequencies, look for a limit point where the

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value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Lowest limit frequency".

(6) Adding up data in order from the highest frequency to lower frequencies, look for a limit point where the value reaches to 0.5% (5% in case of diffusion bandwidth) of "Sum total of electric power". Convert the limit point to frequency and record as "Highest limit frequency".

(7) Repeat above procedures until all frequency measured was complete.

5.4 Summary of Test Results/Plots

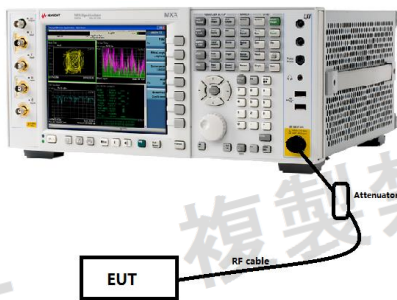
Please refer to Appendix C

6. HOLDING TIME OF HOPPING FREQUENCY

6.1 Standard Application

According to Item 19 of Article 2 Paragraph 1. The Holding Time shall not exceed 0.4sec or less , The Total Sum of Holding Time at arbitrary Frequencies Within the Time Multiplied 0.4 sec By the Spreading Ratio Shall be 0.4sec or Less.

6.2 Test Setup Block Diagram



6.3 Test procedure

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set center frequency of spectrum analyzer = operating frequency.
3. Set the spectrum analyzer as RBW,VBW=1MHz, Span = 0Hz, Sweep time = 3.16s
4. Recode the quantity of pulse in a test period.
5. Set the spectrum analyzer as RBW,VBW=1MHz, Span = 0Hz, Sweep time = 4/10ms
6. Mark the time slot length.
7. Repeat above procedures until all frequency measured was complete.

6.4 Summary of Test Results/Plots

The dwell time within a test period second period in data mode is independent from the packet type (packet length). The calculation for a test period period is a follows:

Dwell time=process gain or spread factor/79*duty cycle*0.4, Duty-cycle = [on time/total time] x 100%.

$$0.4 * \text{process gain} * \text{duty cycle} / 79$$

Test with all modes the worst is DH5 2DH5, 3DH5 for GFSK, $\pi/4$ DQPSK, 8DPSK

Please refer to Appendix D

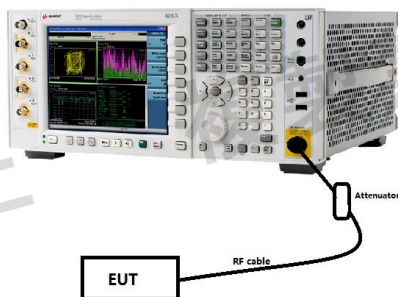
7. TRANSMITTER SPURIOUS EMISSIONS

7.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The transmitter spurious emissions shall not exceed the following limit:

- (1) Below 2387MHz : 2.5 μ W/MHz
- (2) 2387 to 2400MHz : 25 μ W/MHz
- (3) 2483.5 through 2496.5MHz : 25 μ W/MHz
- (4) Over 2496.5MHz : 2.5 μ W/MHz

7.2 Test Setup Block Diagram



7.3 Test Procedure

- (1) A spectrum in case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) The transmitter shall be operated at the highest output power, or, in the case of equipment able to operate at more than one power level, at the lowest and highest output powers;
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz, and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.

7.4 Summary of Test Results/Plots

Please refer to Appendix E

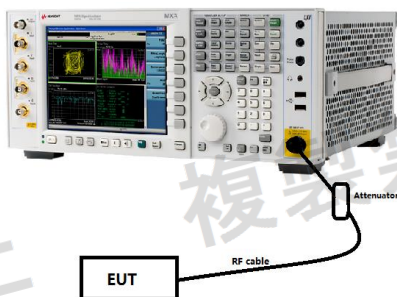
8. RECEIVER SPURIOUS EMISSIONS

8.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The receiver spurious emissions shall not exceeded the following limit:

- (1) Below 1GHz : 4nW/100kHz
- (2) 1GHz or higher : 20nW/MHz

8.2 Test Setup Block Diagram



8.3 Test Procedure

- (1) A spectrum in case of conducted measurements, the radio device shall be connected to the measuring equipment via a suitable attenuator.
- (2) The measurement equipment shall be set for peak hold mode of operation.
- (3) The transmitter shall be operated at the receiving mode.
- (4) The resolution bandwidth shall be set to 100kHz from 10MHz to 1GHz, the resolution bandwidth shall be set to 1MHz above 1GHz, and the sweep time shall be set to auto mode, to ensure all major modulation products are captured.
- (5) When the searched result is less than the specified limit, the maximum one shall be recorded, when the result is more than the specified limit, all measured values shall be recorded.
- (6) This measurement shall be repeated with the transmitter in standby mode where applicable.
- (7) Repeat above procedures until all frequency measured was complete.

8.4 Summary of Test Results/Plots

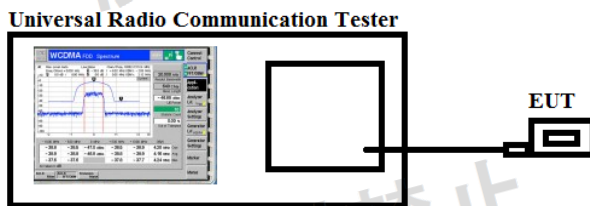
Please refer to Appendix F

9. INTERFERENCE PREVENTION FUNCTION

9.1 Standard Applicable

According to Item 19 of Article 2 Paragraph 1. The device shall have the function of automatic transmission or reception of identification code.

9.2 Test Setup Block Diagram



9.3 Test Procedure

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.
4. The identification function shall be recorded.

9.4 Summary of Test Results/Plots

Please refer to Appendix G

APPENDIX SUMMARY

Project No.	WTX23X09203939W	Test Engineer	Timi Huang
Start date	2023/10/23	Finish date	2023/10/23
Temperature	23℃	Humidity	46%
RF specifications	BT-BR/EDR		

APPENDIX	Description of Test Item	Result
A	RF OUTPUT POWER	Compliant
B	FREQUENCY TOLERANCE	Compliant
C	OCCUPIED BANDWIDTH/SPREAD BANDWIDTH/SPREAD FACTOR	Compliant
D	HOLDING TIME OF HOPPING FREQUENCY	Compliant
E	TRANSMITTER SPURIOUS EMISSIONS	Compliant
F	RECEIVER SPURIOUS EMISSIONS	Compliant
G	INTERFERENCE PREVENTION FUNCTION	Compliant

APPENDIX A

RF OUTPUT POWER

➤ RF Output Power:

Mode	Test Channel	Average Burst power (dBm)	Average Burst power (mW)	SBW (MHz)	Antenna Power (mW/MHz)	Antenna Power Limit (mW/MHz)	Result
GFSK	Low	-1.86	0.65	71.142	0.0092	3	Pass
	Middle	-2.54	0.56	71.142	0.0078	3	Pass
	High	-2.94	0.51	71.142	0.0071	3	Pass
$\pi/4$ DQPSK	Low	0.59	1.15	71.309	0.0161	3	Pass
	Middle	-0.15	0.97	71.309	0.0135	3	Pass
	High	-0.56	0.88	71.309	0.0123	3	Pass
8DPSK	Low	1.32	1.36	71.476	0.0190	3	Pass
	Middle	0.59	1.15	71.476	0.0160	3	Pass
	High	0.13	1.03	71.476	0.0144	3	Pass

All the BR/EDR EIRP is less than 6.911dBm so the half-power beam width is not necessary.

➤ RF Output Power Tolerance

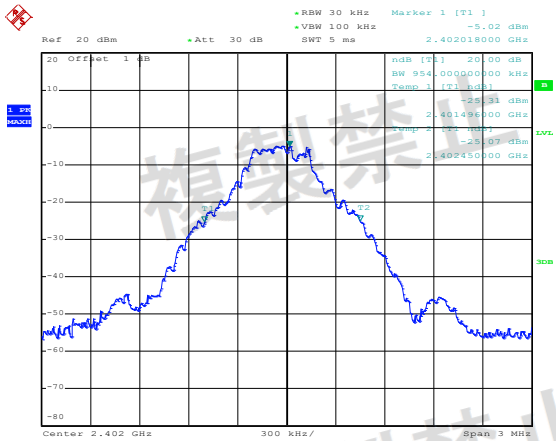
Mode	Test Channel	Antenna Power (mW/MHz)	Rated Output Power (mW/MHz)	Tolerance (%)	Limit (%)	Result
GFSK	Low	0.0092	0.03	-69.47	+20% to -80%	Pass
	Middle	0.0078	0.03	-73.89	+20% to -80%	Pass
	High	0.0071	0.03	-76.19	+20% to -80%	Pass
$\pi/4$ DQPSK	Low	0.0161	0.03	-19.68	+20% to -80%	Pass
	Middle	0.0135	0.03	-32.26	+20% to -80%	Pass
	High	0.0123	0.03	-38.37	+20% to -80%	Pass
8DPSK	Low	0.0190	0.03	-5.20	+20% to -80%	Pass
	Middle	0.0160	0.03	-19.87	+20% to -80%	Pass
	High	0.0144	0.03	-27.92	+20% to -80%	Pass

Note: Tolerance = (Output Power – Rated Output Power) / Rated Output Power * 100%

APPENDIX B**FREQUENCY TOLERANCE**

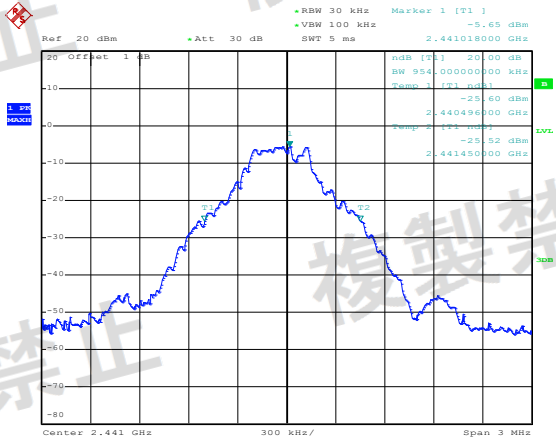
Mode	Test Frequency (MHz)	Reading Value (MHz)	Tolerance (ppm)	Limit (ppm)	Result
GFSK	2402	2401.973	-11.241	±50	Pass
	2441	2440.973	-11.061	±50	Pass
	2480	2479.973	-10.887	±50	Pass
$\pi/4$ DQPSK	2402	2401.961	-16.236	±50	Pass
	2441	2440.961	-15.977	±50	Pass
	2480	2479.961	-15.726	±50	Pass
8DPSK	2402	2401.964	-14.988	±50	Pass
	2441	2440.961	-15.977	±50	Pass
	2480	2479.961	-15.726	±50	Pass

GFSK-Low



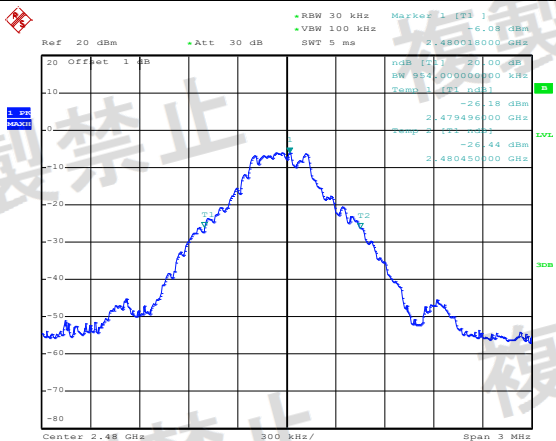
Date: 23.OCT.2023 16:16:33

GFSK-Middle

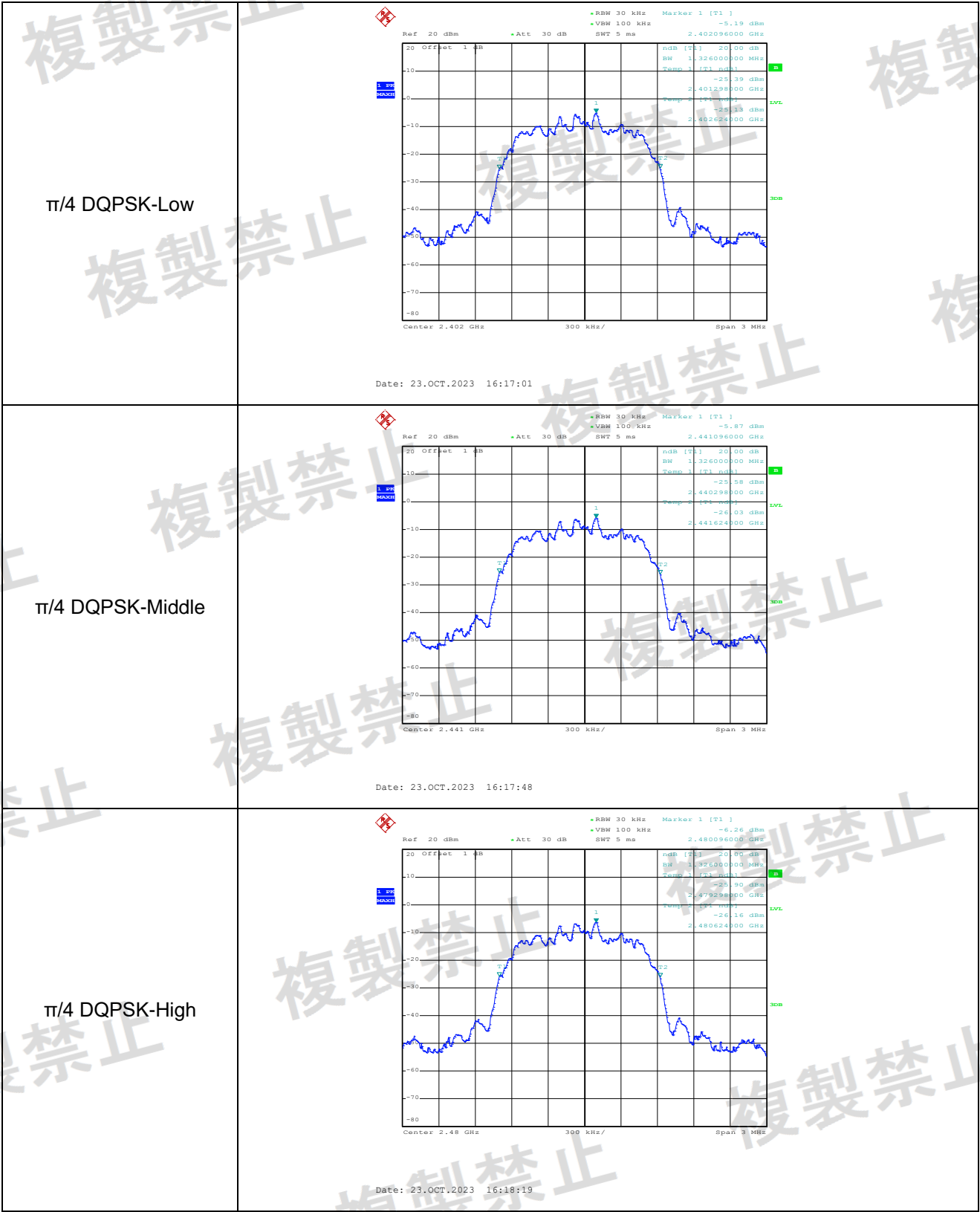


Date: 23.OCT.2023 16:15:38

GFSK-High



Date: 23.OCT.2023 16:16:01





APPENDIX C

OCCUPIED BANDWIDTH/SPREAD BANDWIDTH/SPREAD FACTOR

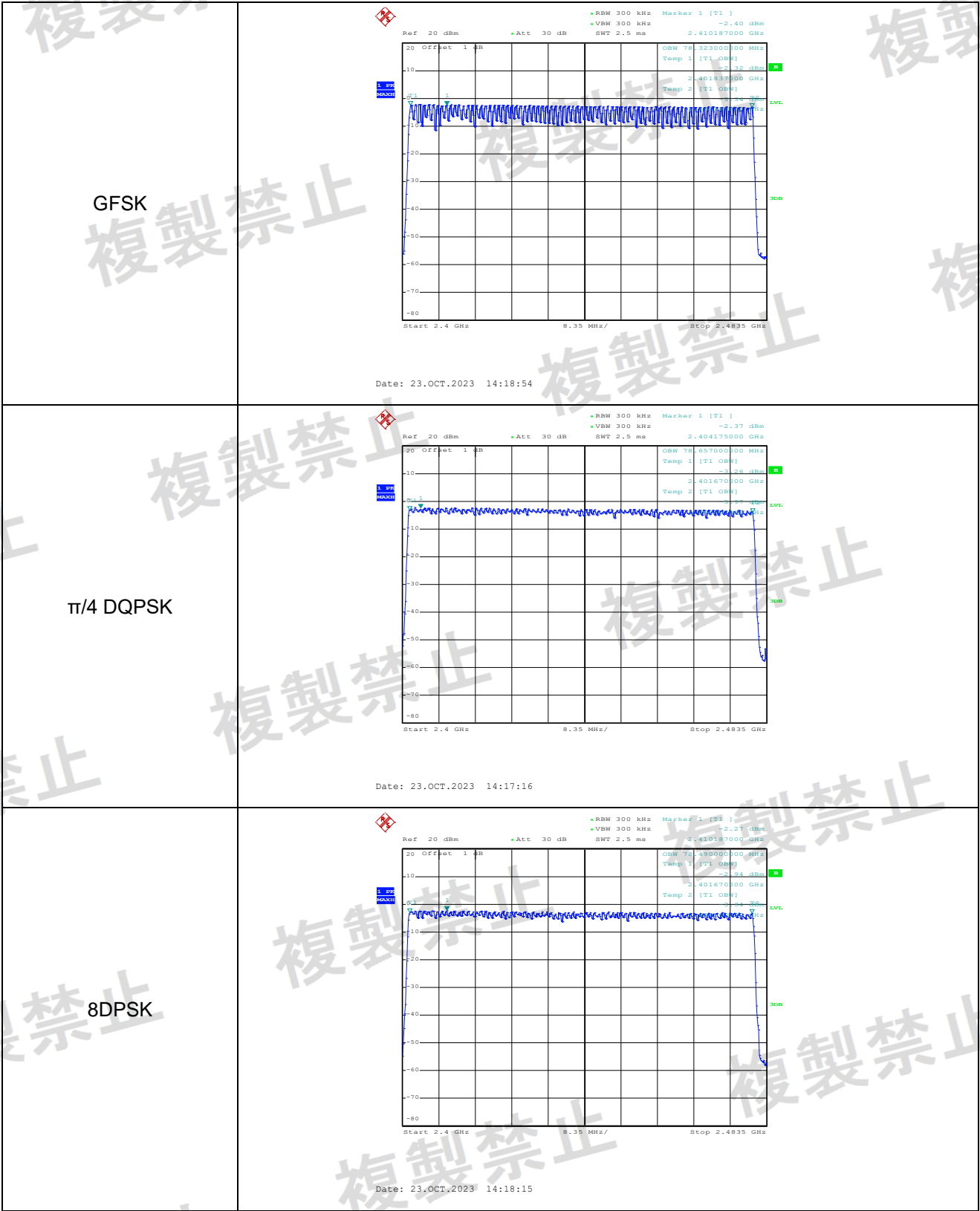
Mode	Channel	99% Emission bandwidth		90% Emission bandwidth		Result
		Reading Value (MHz)	Limit (MHz)	Reading Value (MHz)	Limit (MHz)	
GFSK	Hopping	78.323	<83.5	71.142	≥0.5	Pass
π/4 DQPSK	Hopping	78.657	<83.5	71.309	≥0.5	Pass
8DPSK	Hopping	78.490	<83.5	71.476	≥0.5	Pass

➤ Spread Factor

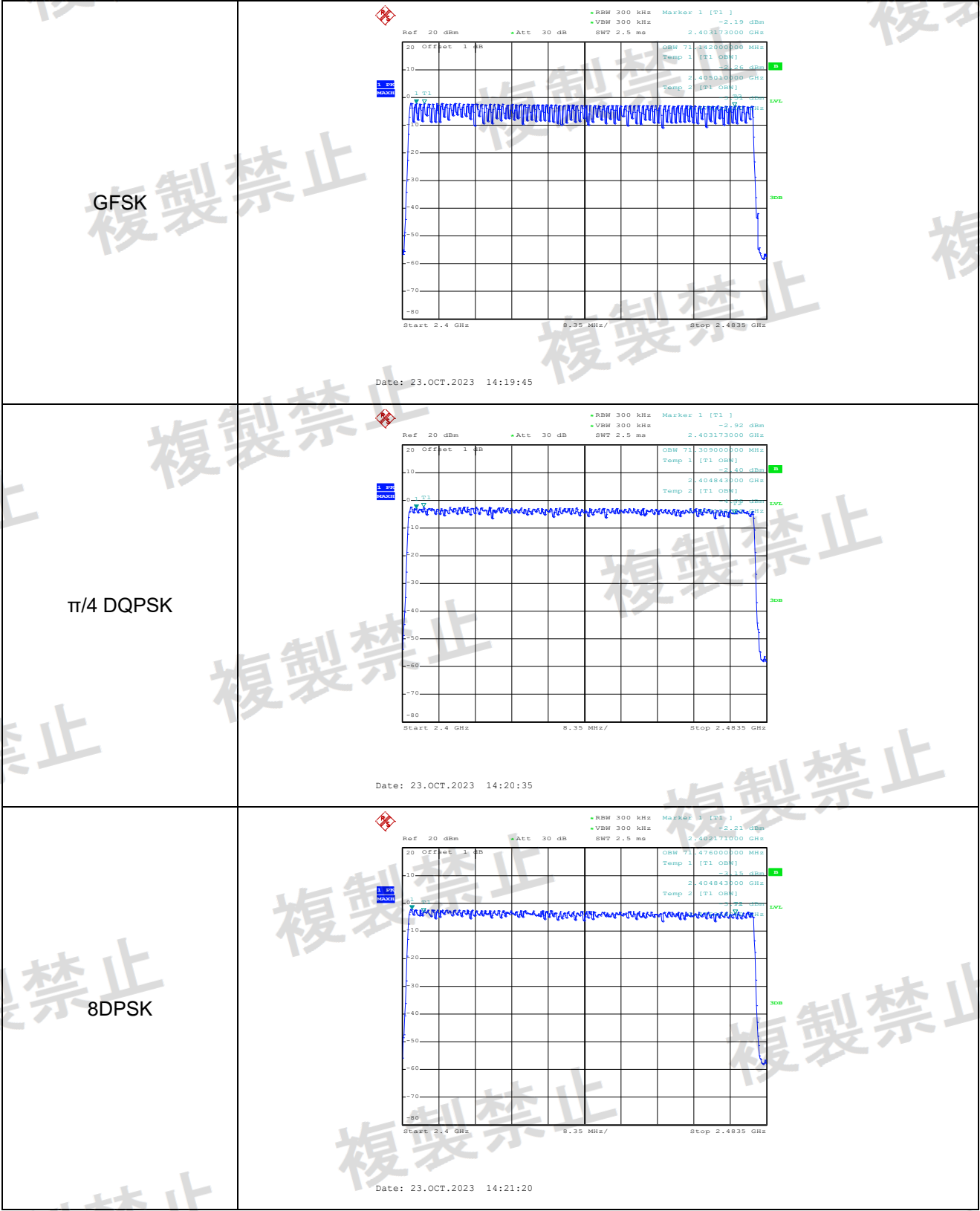
Test mode	Diffusion Bandwidth	Symbol Rate (Ms/s)	Spread Factor	Limit	Result
GFSK	71.142	1	71.142	≥5	Pass
π/4 DQPSK	71.309	1	71.309	≥5	Pass
8DPSK	71.476	1	71.476	≥5	Pass

Spread Factor= Diffusion Bandwidth/ Modulation Data Rate

99% Emission bandwidth



90% Emission bandwidth



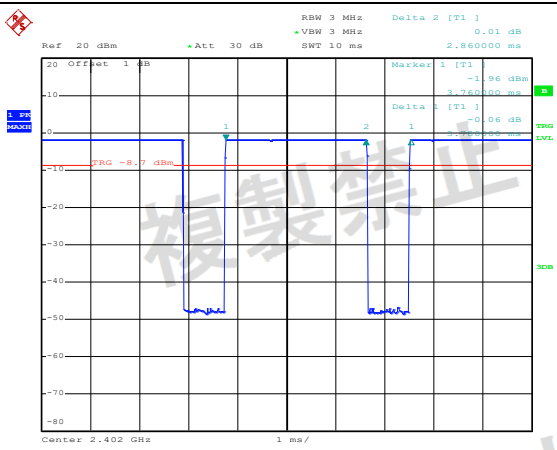
APPENDIX D

HOLDING TIME OF HOPPING FREQUENCY

Modulation	Test Channel	Packet	Dutycycle (%)	Dwell Time (ms)	Limit (ms)
GFSK	Low	DH5	75.66	272.54	<400
	Middle	DH5	75.66	272.54	<400
	High	DH5	75.66	272.54	<400
$\pi/4$ DQPSK	Low	DH5	75.13	271.27	<400
	Middle	DH5	75.13	271.27	<400
	High	DH5	75.13	271.27	<400
8DPSK	Low	DH5	75.13	271.91	<400
	Middle	DH5	75.13	271.91	<400
	High	DH5	75.13	271.91	<400

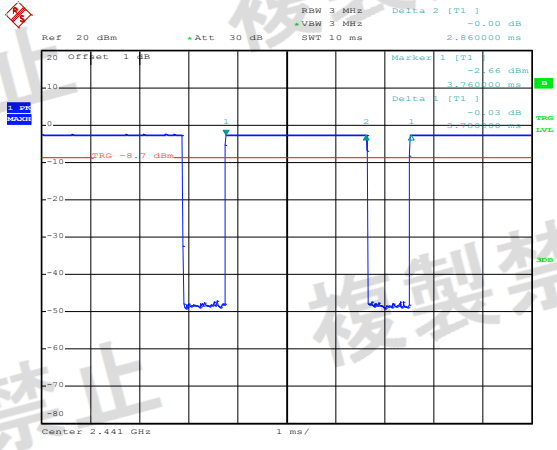
Test mode	Diffusion Bandwidth	Modulation Data Rate (M)	Process gain
GFSK	71.142	1	71.142
$\pi/4$ DQPSK	71.309	1	71.309
8DPSK	71.476	1	71.476

GFSK-Low



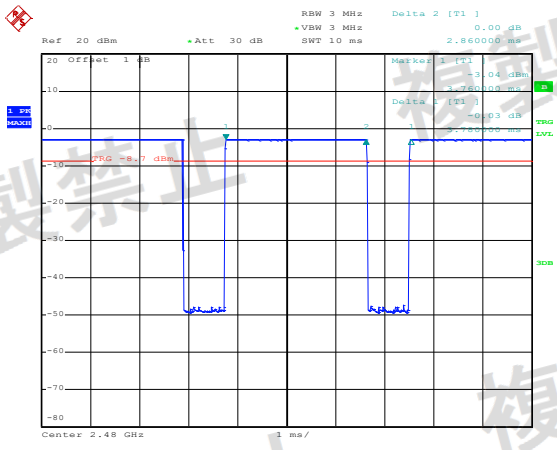
Date: 23.OCT.2023 14:23:49

GFSK-Middle



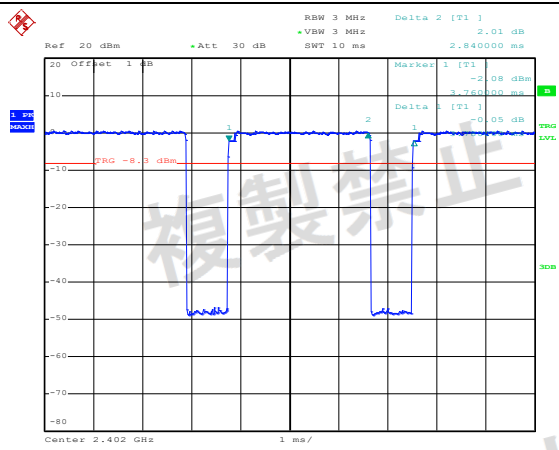
Date: 23.OCT.2023 14:24:39

GFSK-High



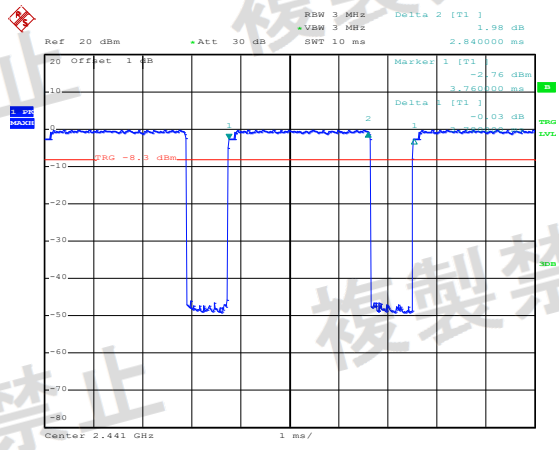
Date: 23.OCT.2023 14:25:04

$\pi/4$ DQPSK-Low



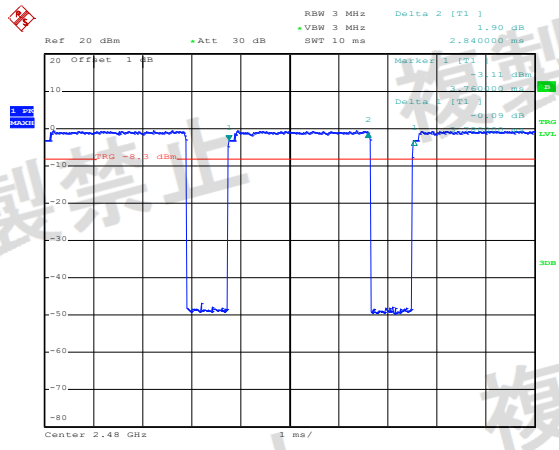
Date: 23.OCT.2023 15:29:19

$\pi/4$ DQPSK-Middle

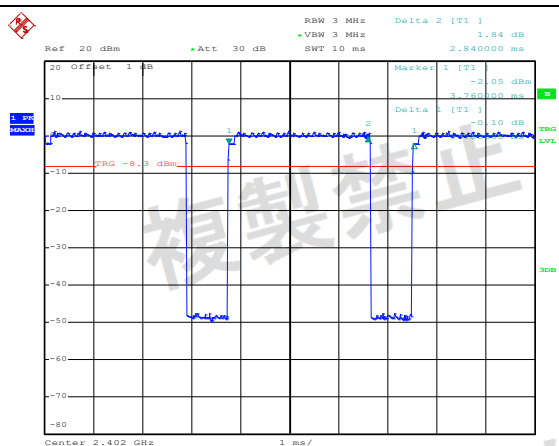


Date: 23.OCT.2023 15:29:32

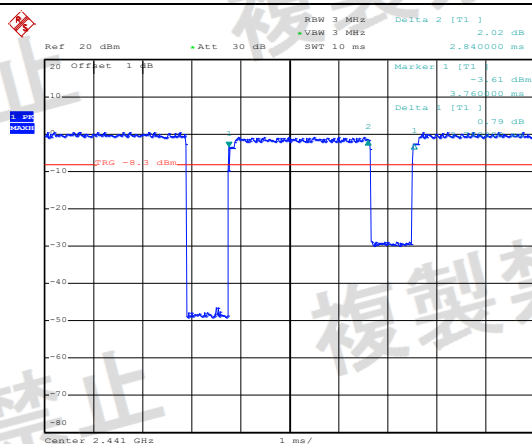
$\pi/4$ DQPSK-High



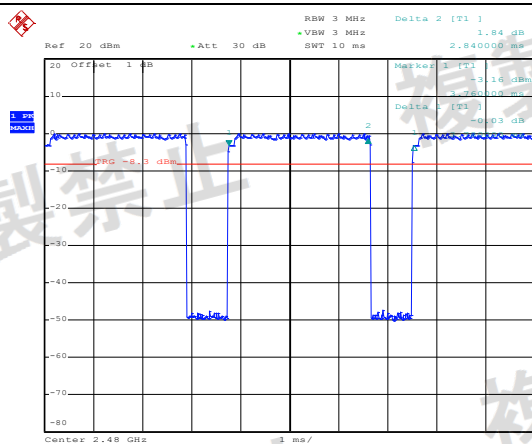
Date: 23.OCT.2023 15:29:56



複製禁



復製



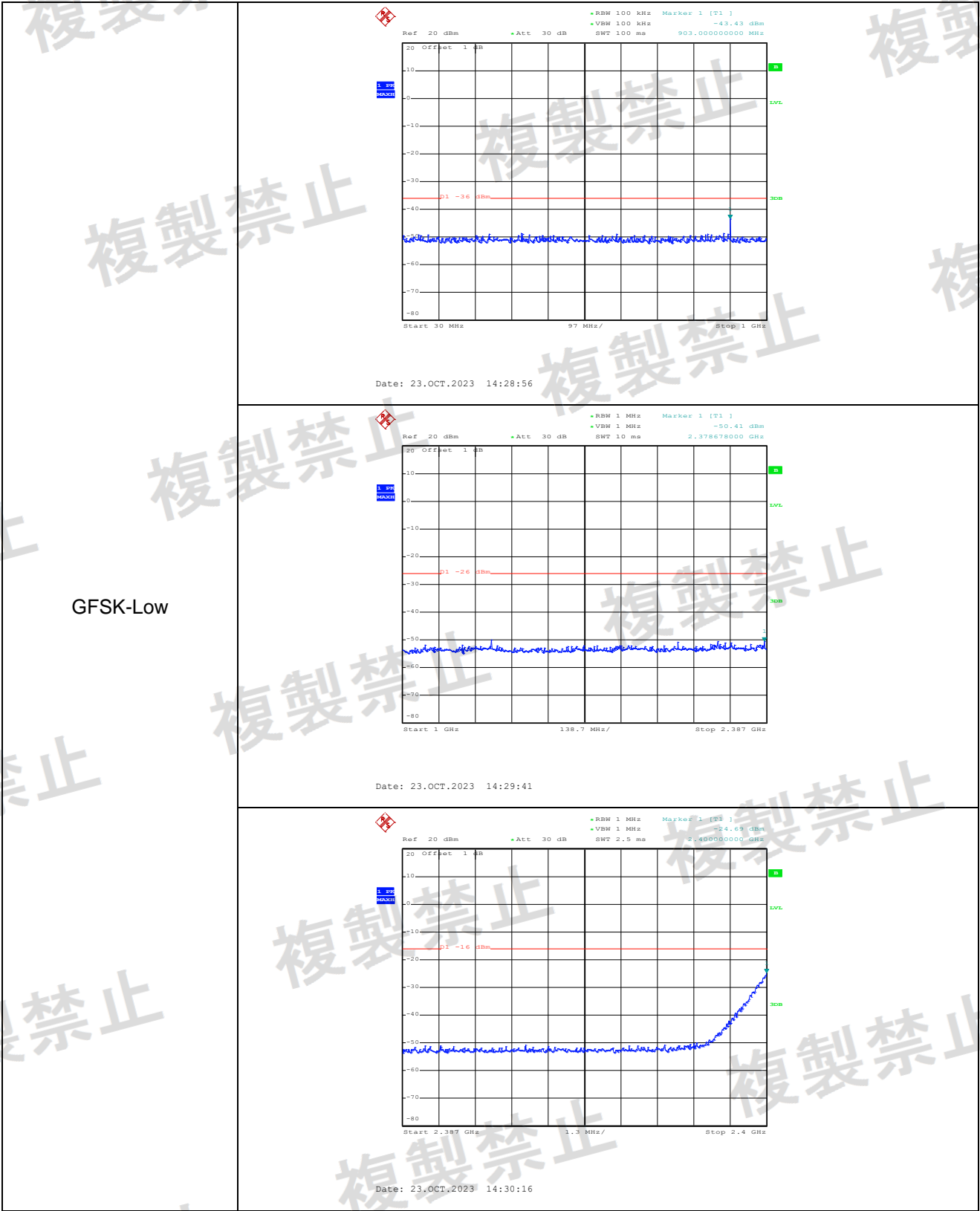
APPENDIX E

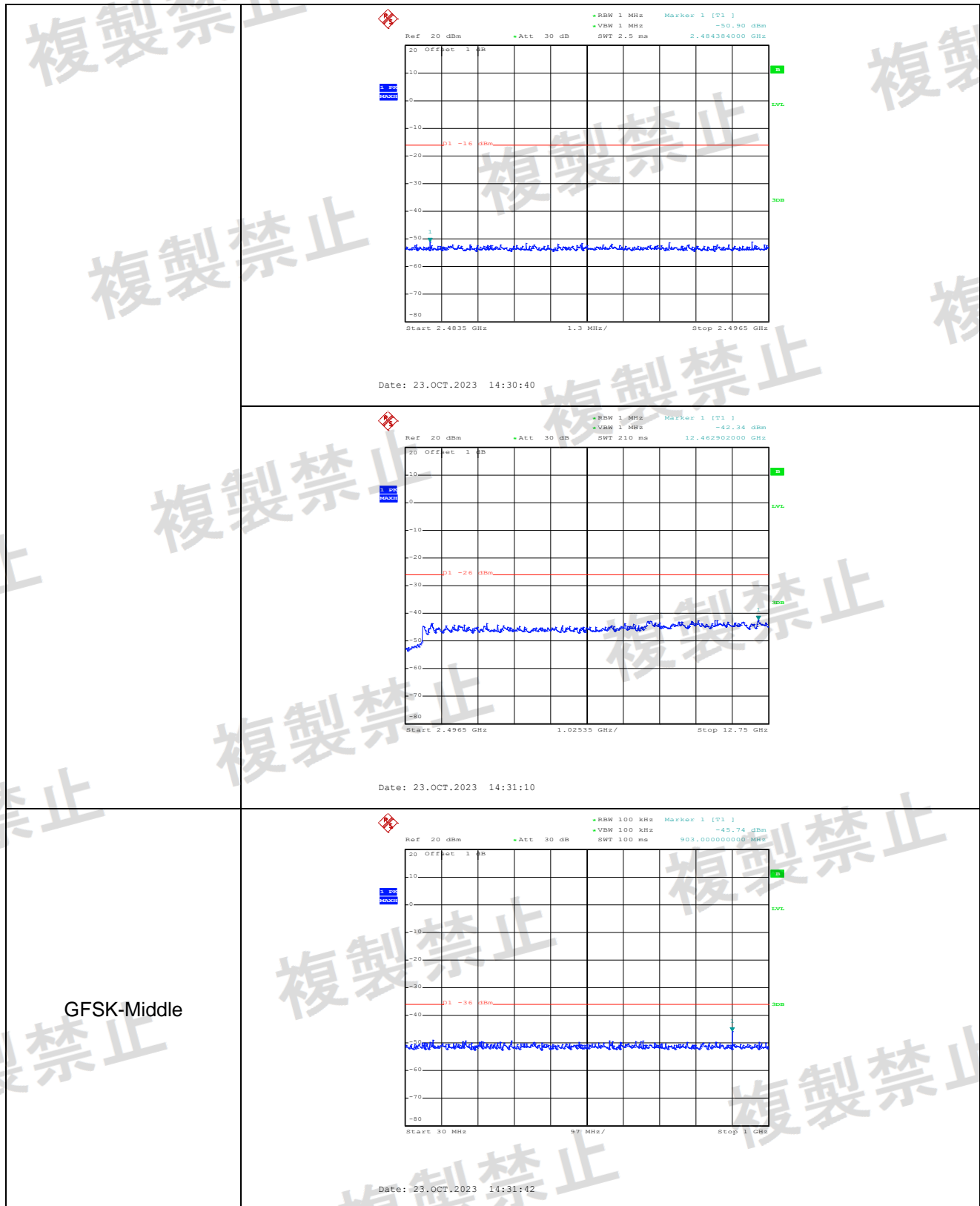
TRANSMITTER SPURIOUS EMISSIONS

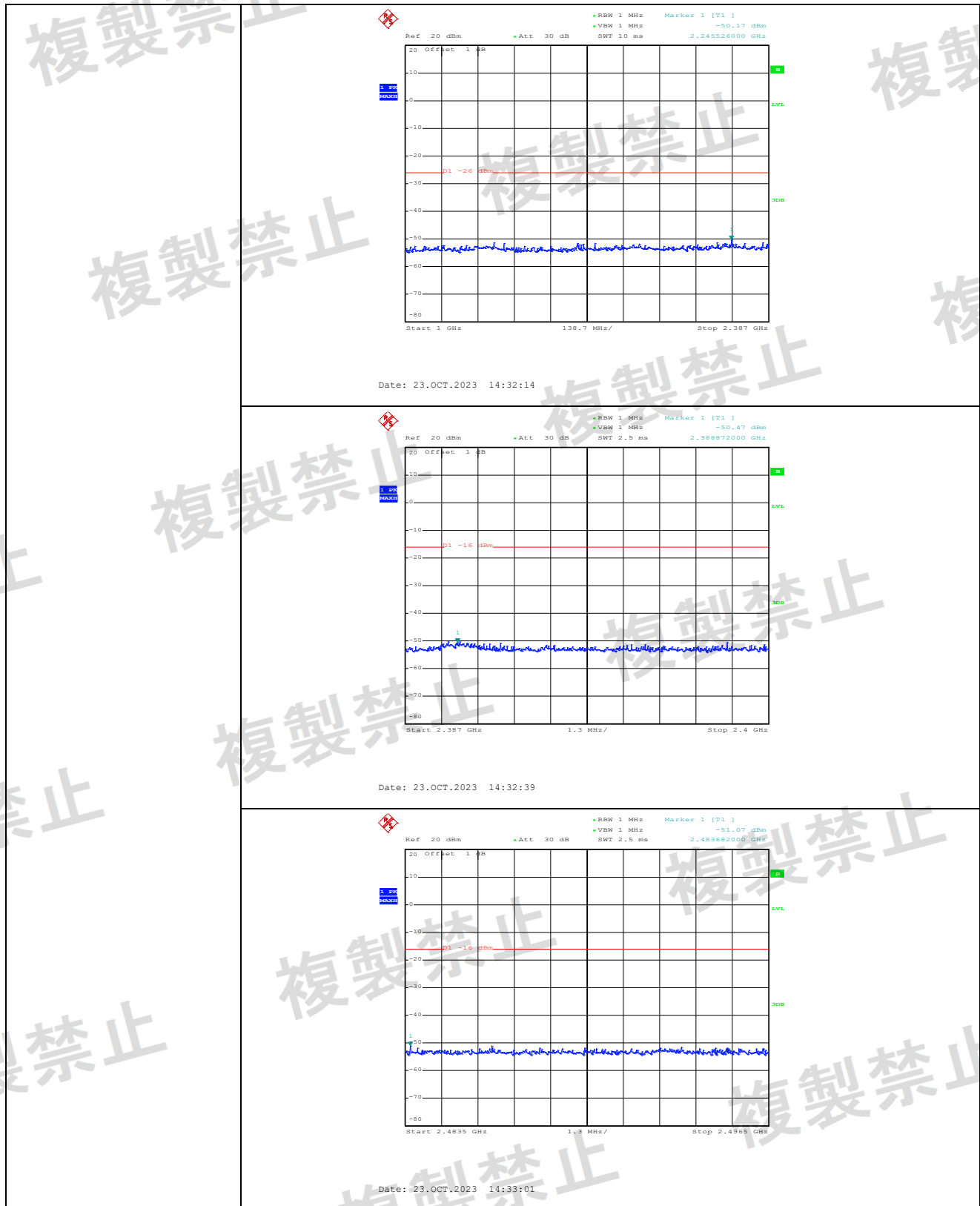
➤ For BR, EDR Worst case at GFSK mode

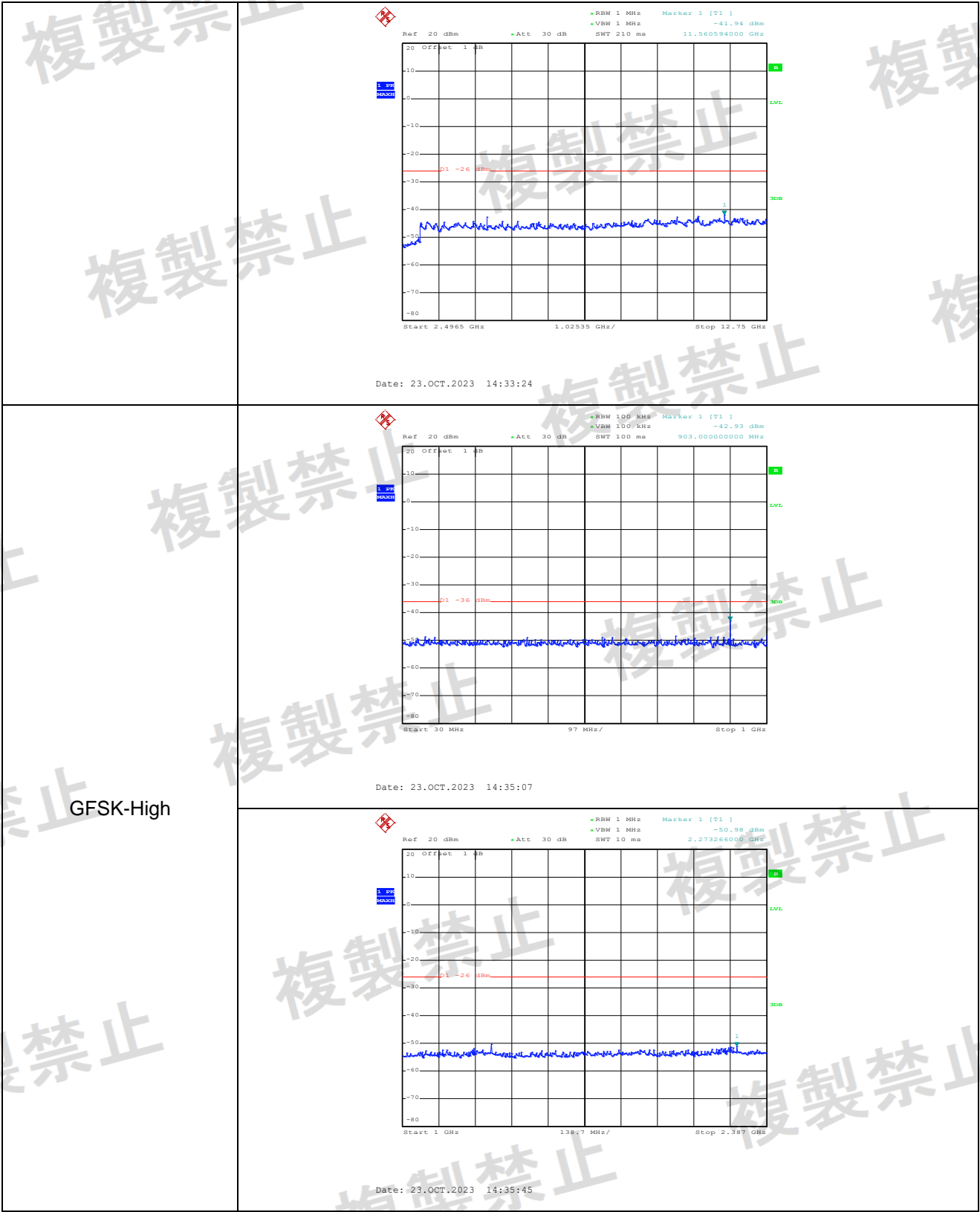
Mode	Channel	Frequency Range (MHz)	Limit (dBm)	Result
GFSK	Low	30-1000	-36	Pass
		1000-2387	-26	Pass
		2387-2400	-16	Pass
		2483.5-2496.5	-16	Pass
		2496.5-12750	-26	Pass
	Middle	30-1000	-36	Pass
		1000-2387	-26	Pass
		2387-2400	-16	Pass
		2483.5-2496.5	-16	Pass
		2496.5-12750	-26	Pass
	High	30-1000	-36	Pass
		1000-2387	-26	Pass
		2387-2400	-16	Pass
		2483.5-2496.5	-16	Pass
		2496.5-12750	-26	Pass

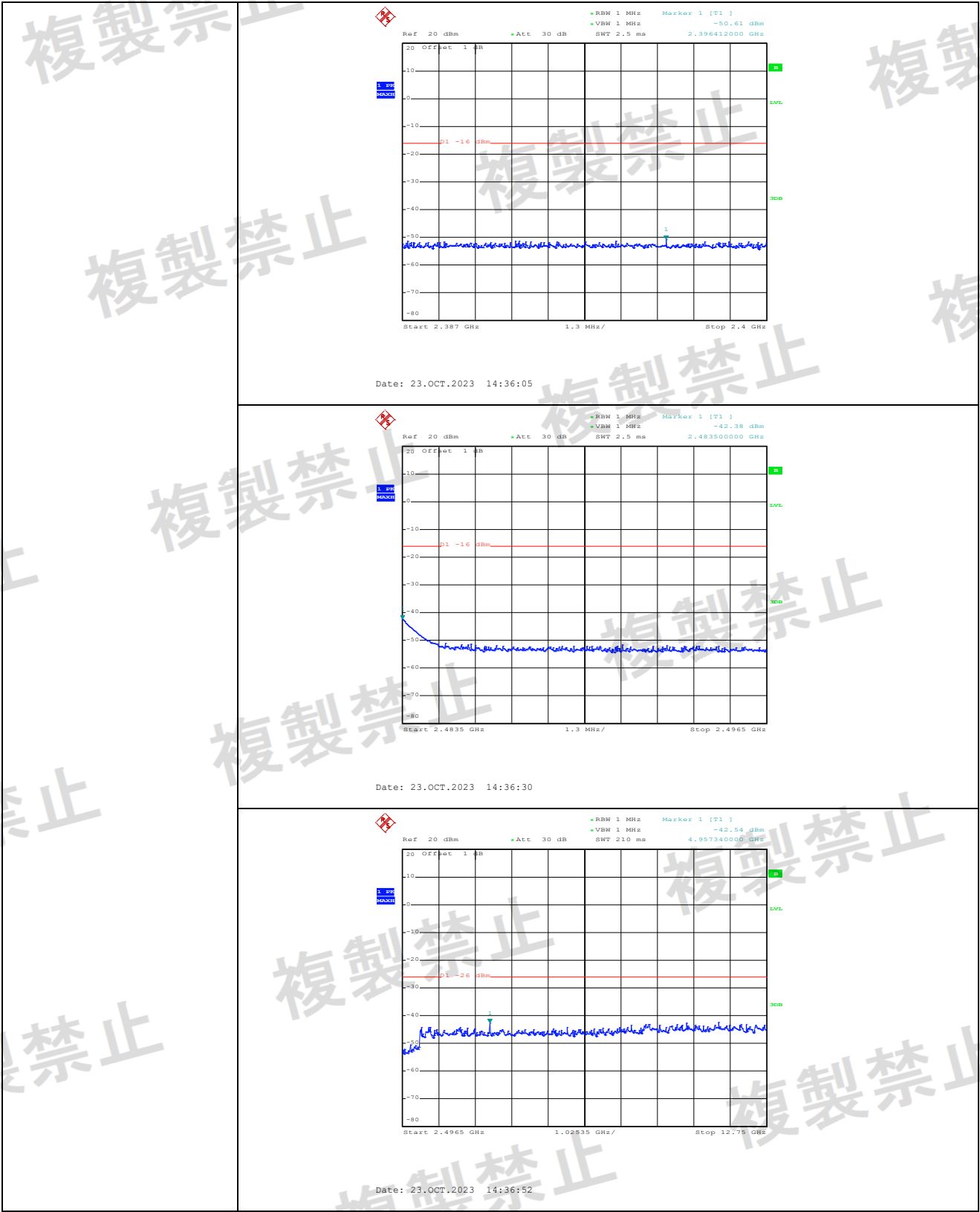
2.5μW/MHz=-26dBm/MHz, 25μW/MHz=-16dBm/MHz 2.5μW/MHz=-36dBm/100kHz,











APPENDIX F

RECEIVER SPURIOUS EMISSIONS

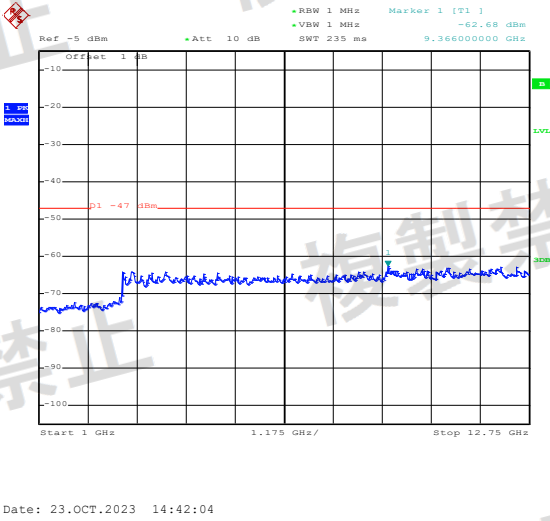
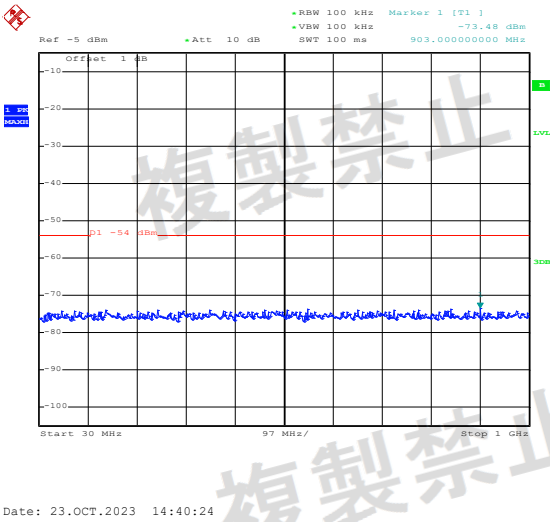
➤ For BR, EDR Worst case at GFSK mode

Mode	Channel	Frequency Range (MHz)	Limit (dBm)	Result
GFSK	Low	30-1000	-54	Pass
		1000-12750	-47	Pass
	Middle	30-1000	-54	Pass
		1000-12750	-47	Pass
	High	30-1000	-54	Pass
		1000-12750	-47	Pass

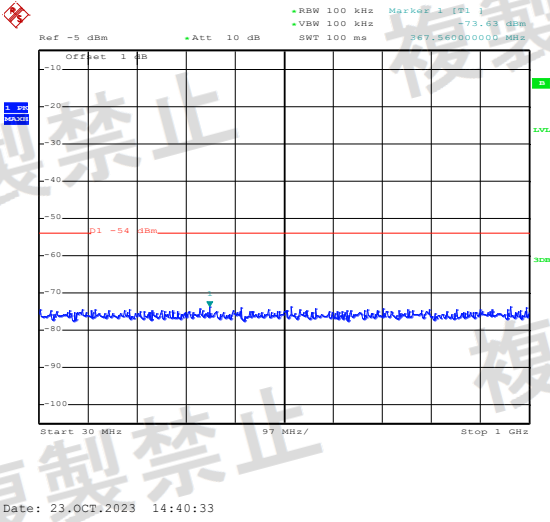
4nW/100kHz=-54dBm/100kHz

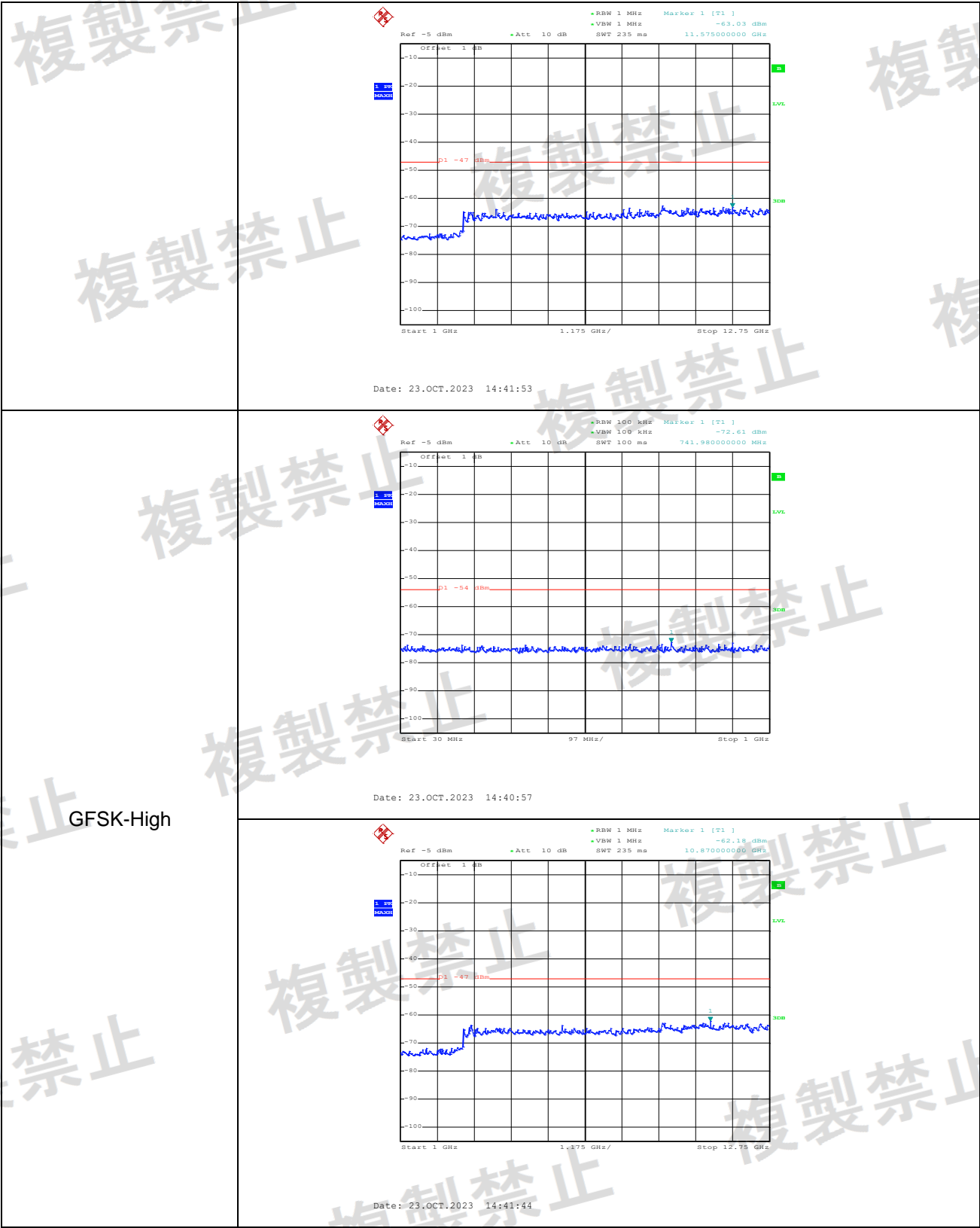
20nW/MHz=-47dBm/MHz

GFSK-Low



GFSK-Middle





APPENDIX G

INTERFERENCE PREVENTION FUNCTION

Test Item	Test Result
Transmitting Function of Identification Code	>48 bits
Receiving Function of Identification Code	>48 bits

Identification Code	QDID: 194248
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Reference No.: WTX23X09203939W

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****