



MAXLAB Testing Co.,Ltd.

Report No. MAX26010011P01-R01

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RADIOTEST REPORT

Ordinance Article 2 paragraph 1 item (19)

Compiled by:
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Cindy Zheng

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Haley Wen

Approved by:
(position+printed name+signature) RF Manager/ Vivian Jiang

Vivian Jiang

Product Name.....: Bluetooth portable speaker

Model/Type reference.....: 75865

List Model(s).....: N/A

Trade Mark.....: N/A

Applicant's name.....: ARTEC CO.,LTD

Address of applicant.....: 3-2-21, KITAKAMEICHO, YAO SHI, OSAKA, JAPAN

Testing Laboratory Name.....: MAXLAB Testing Co.,Ltd.

Address.....: 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

Test specification.....:

Standard.....: Ordinance Article 2 paragraph 1 item (19)
MIC Public Notice 88:2004, annex 1 and annex 43

Date of Receipt.....: January 15, 2026

Date of Test Date.....: January 15, 2026-January 23, 2026

Data of Issue.....: January 26, 2026

Result.....: Positive

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TEST REPORT

Equipment under Test : Bluetooth portable speaker

Model /Type : 75865

Listed Models : N/A

Applicant : ARTEC CO.,LTD

Address : 3-2-21, KITAKAMEICHO, YAO SHI, OSAKA, JAPAN

Manufacturer : Shenzhen Jiabeile Electronics Co., Ltd

Address : R301,3F, Building 1, Hongchangfa industrial park, Longgang street,
Longgang District, Shenzhen

Test result	Pass
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*In the configuration tested, the EUT complied with the standards specified page 4.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[MIC Notice No.88 Appendix No.43](#)

1.2. Test Description

Test Item	Standard	Test Requirement	Result
Frequency Error	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Antenna Output Power and Output Power Tolerance	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Occupied Bandwidth and Spread spectrum bandwidth	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Unwanted Emission Strength	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Secondary Radiated Emission Strength	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Dwell time	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Interference Prevention Function	Article 2-1, Item 19-MIC Notice No.88 Appendix No.43	Article 2-1, Item 19	Pass
Transmission Antenna Gain (EIRP Antenna Power)	Article 2-2, Item 19-MIC Notice No.88 Appendix No.43	Article 2-2, Item 19	Pass



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1.3. Test Facility

1.3.1 Address of the test laboratory

MAXLAB Testing Co.,Ltd.

1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

1.4. Measurement Uncertainty

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.

Parameter	Uncertainty
Frequency error / 99%&90% bandwidth	$\pm 1.62 \times 10^{-6}$
Total RF power, conducted	$\pm 0.8\text{dB}$
Spurious emissions, conducted	$\pm 0.8\text{dB}$
DC and low frequency voltages	$\pm 0.05\%$
Humidity	$\pm 5\%$
Temperature	$\pm 1^{\circ}\text{C}$

2. GENERAL INFORMATION

2.1. Environmental conditions

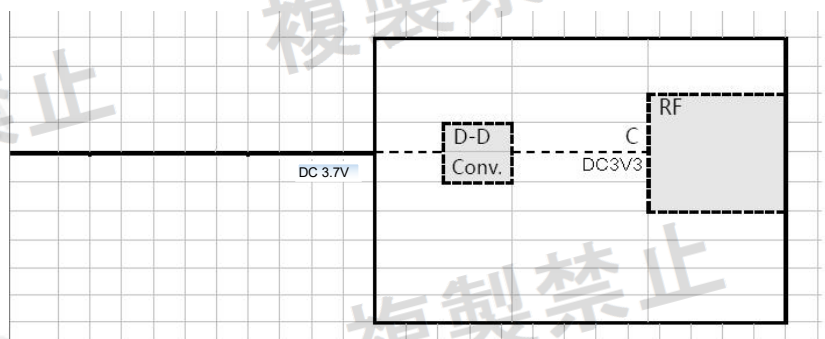
During the measurement the environmental conditions were within the listed ranges:

Power supply:

INPUT: DC 3.7V

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation($\pm 1\%$) against input voltage fluctuation($\pm 10\%$).

So, all measurements were conducted at only rated voltage DC 5V



Test below:

- 1: The fluctuation of C point is under $\pm 1\%$, when input voltage from B point to the test equipment is fluctuated by $\pm 10\%$.
- 2: The fluctuation of C point is under $\pm 1\%$, when input voltage from A point to the test equipment is fluctuated by $\pm 10\%$.

The measurement result of the voltage fluctuation at RF circuit when 3.7Vdc $\pm 10\%$

Input DC 3.7V	DC 3.3V
4.07V	3.3V
3.7V	3.3V
3.33V	3.3V

Temperature:

23.5 °C

Humidity:

65 % RH

Atmospheric Pressure:

1000 -1010 mbar

Test frequencies:

If the EUT can be set to 3 or more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L,M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.



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2.2. General Description of EUT

Product Name:	Bluetooth portable speaker
Model/Type reference:	75865
Listed Model(s):	N/A
Model difference:	N/A
Adapter information:	/
Hardware version:	/
Software version:	/
Bluetooth 5.0+EDR	
Supported type:	Version 5.0+EDR
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	79
Channel separation:	1 MHz
Antenna type:	PCB Antenna
Antenna gain:	1.68 dBi

2.3. Description of Test Modes

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. RX and TX modes click the RX or TX buttons on the software. See the test software manual for detailed settings.

Test software: FCC_assist_1.0.2.2.exe			
Test mode	Power level	Rating power mW/MHz	Transmission rate Mbps
GFSK	9	0.05	1
$\pi/4$ DQPSK	9	0.05	2
8DPSK	9	0.05	3

Operation Frequency List BT 5.0+EDR:

Channel	Frequency(MHz)	Channel	Frequency(MHz)
00	2402	40	2442
01	2403	41	2443
02	2404	42	2444
03	2405	43	2445
04	2406	44	2446
05	2407	45	2447
06	2408	46	2448
07	2409	47	2449
08	2410	48	2450
09	2411	49	2451
10	2412	50	2452
11	2413	51	2453
12	2414	52	2454
13	2415	53	2455
14	2416	54	2456
15	2417	55	2457
16	2418	56	2458
17	2419	57	2459
18	2420	58	2460
19	2421	59	2461
20	2422	60	2462
21	2423	61	2463
22	2424	62	2464
23	2425	63	2465
24	2426	64	2466
25	2427	65	2467
26	2428	66	2468
27	2429	67	2469
28	2430	68	2470

29	2431	69	2471
30	2432	70	2472
31	2433	71	2473
32	2434	72	2474
33	2435	73	2475
34	2436	74	2476
35	2437	75	2477
36	2438	76	2478
37	2439	77	2479
38	2440	78	2480
39	2441		

Note: Test performed at the lowest/middle/highest frequencies selected in the list above for EUT supported while working on specified mode.

2.4. Measurement Instruments List

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date	Calibration unit
1	Spectrum Analyzer	Agilent	N9020A	MY112299	2025.03.25	2026.03.24	CCIC
2	RF Cable 1#	FUJIKURA	5D-2W	01	2025.03.25	2026.03.24	CCIC
3	DC power supply	ANS	JS122D	00415	2025.03.25	2026.03.24	CCIC
4	Power meter	EVERFINE	PF9802B	P185825CD1 371134	2025.03.25	2026.03.24	CCIC
5	Digital Multimeter	Fluke	15B+	17091822	2025.03.25	2026.03.24	CCIC
6	Digital Oscilloscope	Tektronix	TDS1012B	S007	2025.03.25	2026.03.24	CCIC

Calibration by the calibration agencies listed in the table correspond to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law".

3. Test conditions and Results

3.1. Frequency Error

LIMIT

± 50ppm

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: non-modulation

Spectrum Condition:

Frequency: test frequency

Span: 1000 KHz

RBW: 10 KHz

VBW: 10 KHz

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold



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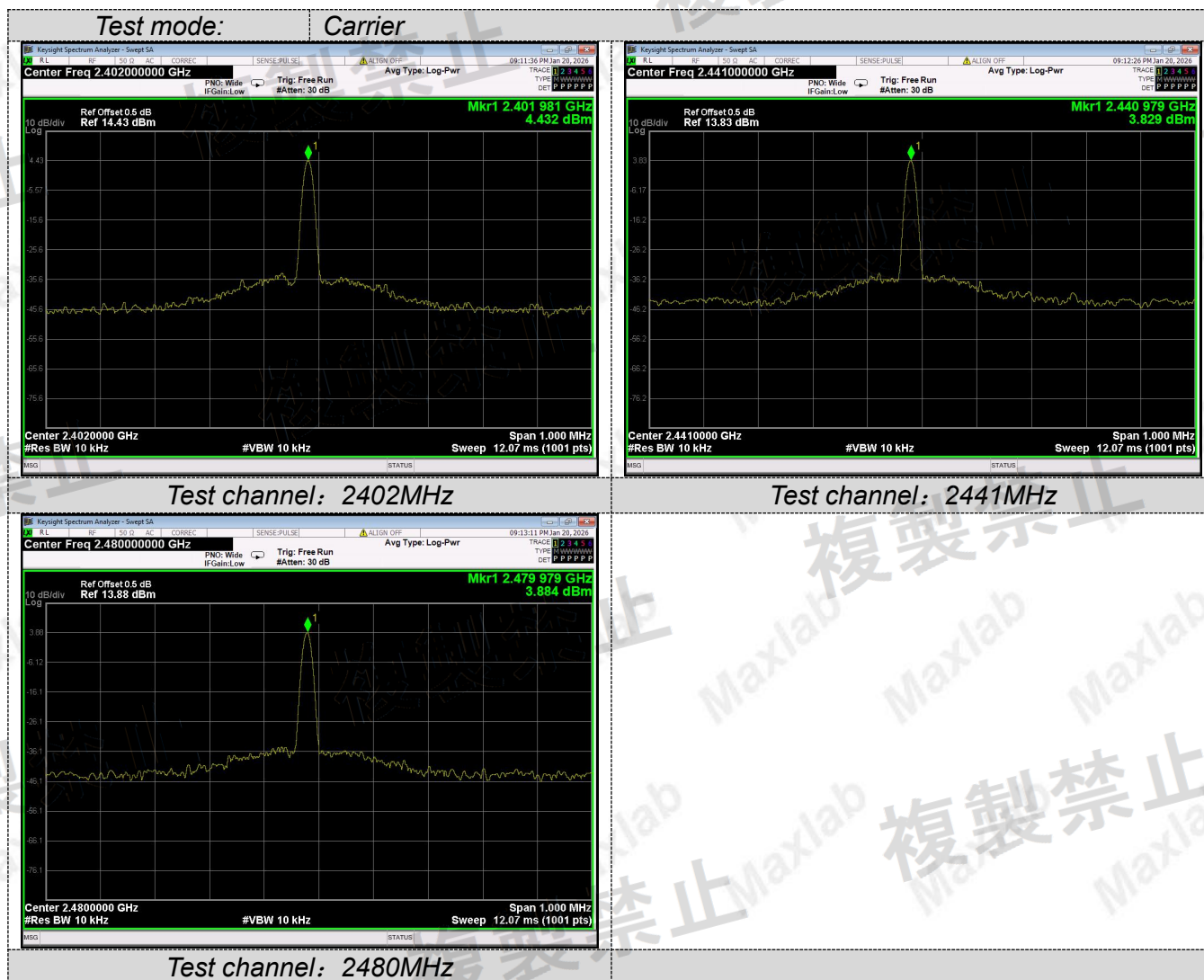
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TEST RESULTS

Left ear:

Test voltage (V)	Frequency (MHz)	Read (MHz)	Deviation (MHz)	Tolerance (ppm)	Limit (ppm)	Result
DC 3.7V	2402.00	2401.981	-0.019	-7.91	± 50.00	Pass
	2441.00	2440.979	-0.021	-8.60		
	2480.00	2479.979	-0.021	-8.47		



3.2. Antenna Output Power and Output Power Tolerance

LIMIT

1. $\leq 3 \text{ mW /MHz}$ (FH, FH+DS, FH+OFDM from 2400 - 2483.5 MHz)
2. $\leq 10 \text{ mW/MHz}$ (OFDM OBW < 26 MHz, DS, FH other than (1))
3. $\leq 5 \text{ mW/MHz}$ (OFDM OBW 26 – 38 MHz)
4. $\leq 10 \text{ mW}$ (Other than (1) & (2) & (3) 10 mW)

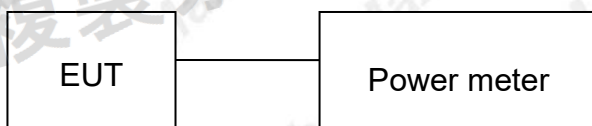
The Output Power Tolerance must be within +20%.

E.i.r.p:

- $\leq 6.91 \text{ dBm/MHz}$ (FHSS from 2400-2483.5 MHz)

Note: E.I.R.P will not be applied to the transmission antenna which has a gain of 2.14 dBi or less.

TEST CONFIGURATION



TEST RESULTS

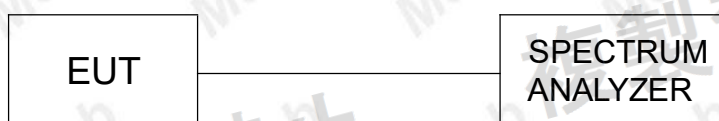
DC 3.7V										
Mode	Reading power (dBm)	Cable loss (dB)	Average burst power (mW)	Spread Band width (MHz)	Output power (mW/MHz)	Limit (mW/MHz)	Rated output power (mW/MHz)	Tolerance (%)	Limit	Result
BT 5.0 BR	4.865	0.5	3.44	71.602	0.0480	3	0.05	-3.93%	+20%	Pass
BT 5.0EDR $\pi/4$ DQPSK	4.635	0.5	3.26	71.789	0.0454	3	0.05	-9.12%	+20%	Pass
BT 5.0EDR 8DPSK	4.421	0.5	3.11	71.748	0.0433	3	0.05	-13.44%	+20%	Pass

3.3. OCCUPIED BANDWIDTH AND SPREADING BANDWIDTH

LIMIT

- Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM $\leq$ 38 MHz, DS $\leq$ 26 MHz; Others $\leq$ 26 MHz
- Spread Bandwidth: $\geq$ 500 kHz(FH,DS)
- Spread factor $>$ 5.

TEST CONFIGURATION



TEST PROCEDURE

1. Setting of SA is following as follow:

RBW: 1000 kHz

VB: 1000 kHz

Sweep time: Auto

Sweep Mode: Continuous sweep

Detect mode: Positive peak

Trace mode: Max hold

2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

TEST RESULTS

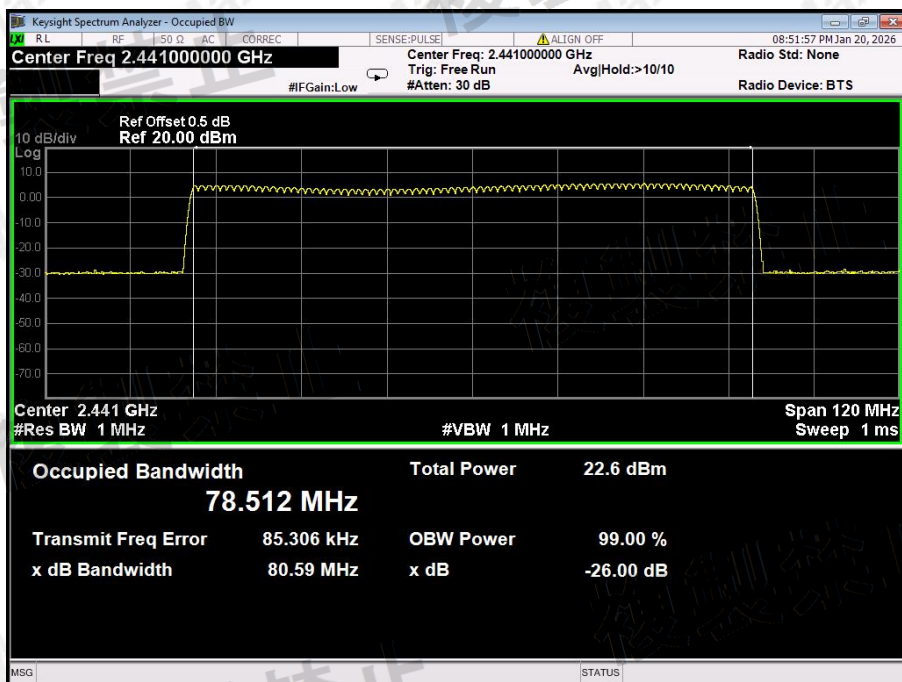
Test Condition	Type	Channel (MHz)	Occupy Bandwidth99% (MHz)	Limit (MHz)	Result
TNVN	BT 5.0BR	79 channels (2402~2480 MHz)	78.512	83.5 MHz or less	Pass
TNVN	BT 5.0EDR π /4DQPSK		78.788		Pass
TNVN	BT 5.0EDR 8DPSK		78.801		Pass

Test Condition	Test Mode	Test Channel	Occupy Bandwidth90% [MHz]	Spread factor	Limit [MHz]	Verdict
TNVN	DH5	79 channels (2402~2480 MHz)	71.602	71.602	≥ 0.5	Pass
TNVN	2DH5		71.789	71.789	≥ 0.5	Pass
TNVN	3DH5		71.748	71.748	≥ 0.5	Pass

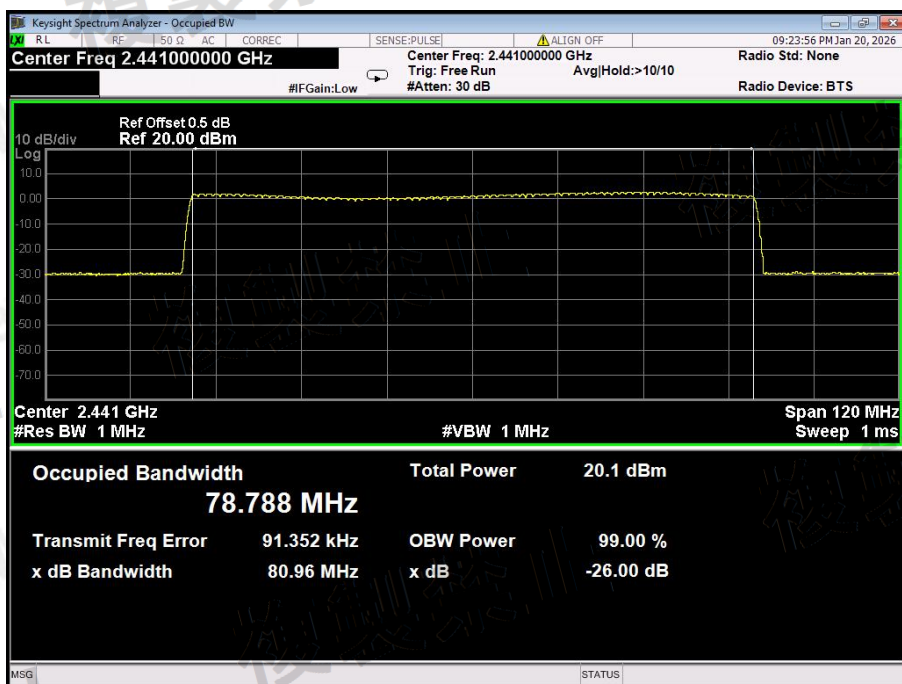
Spread factor=90% Bandwidth/ transmission rate
For DH5/2DH5/3DH5, transmission rate is 1Mbps/1Mbps/1Mbps

Result plot as follows: Bandwidth 99%

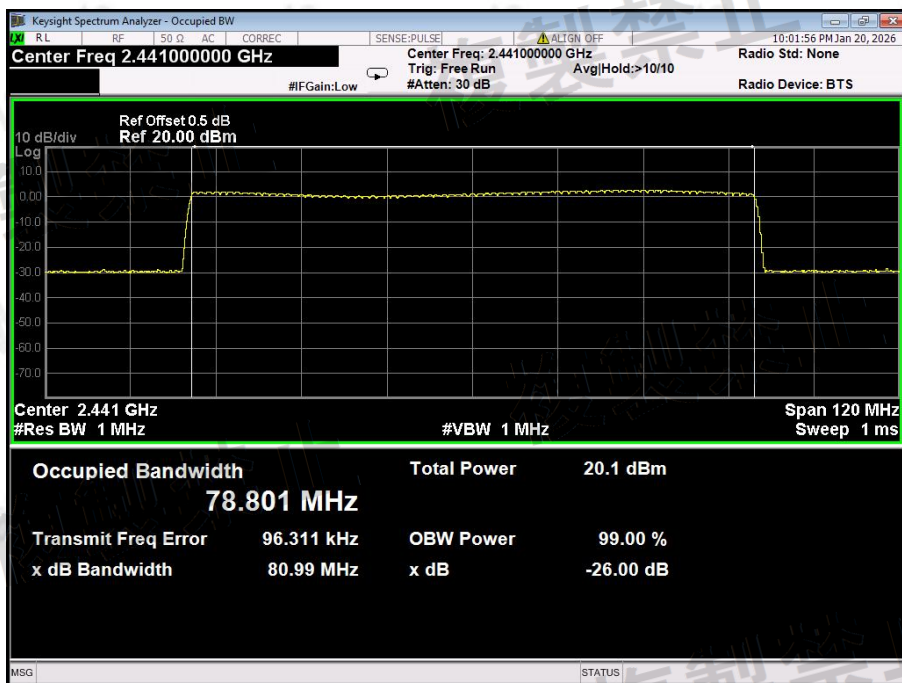
For FHSS: BR mode (GFSK):



EDR mode ($\pi/4$)DQPSK:

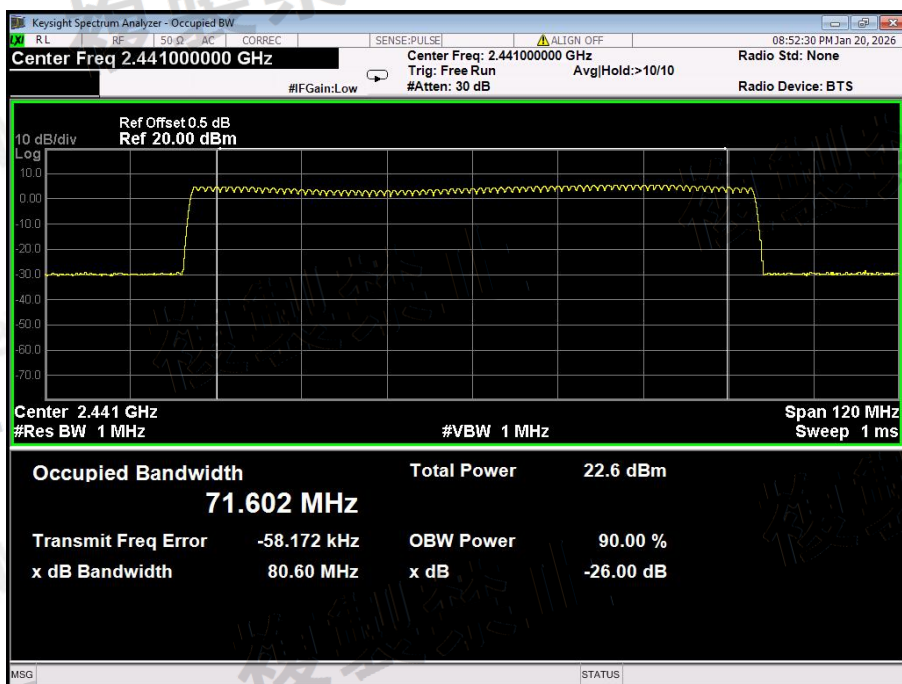


EDR mode 8DPSK:



Result plot as follows: Bandwidth 90%

For FHSS: BR mode (GFSK):



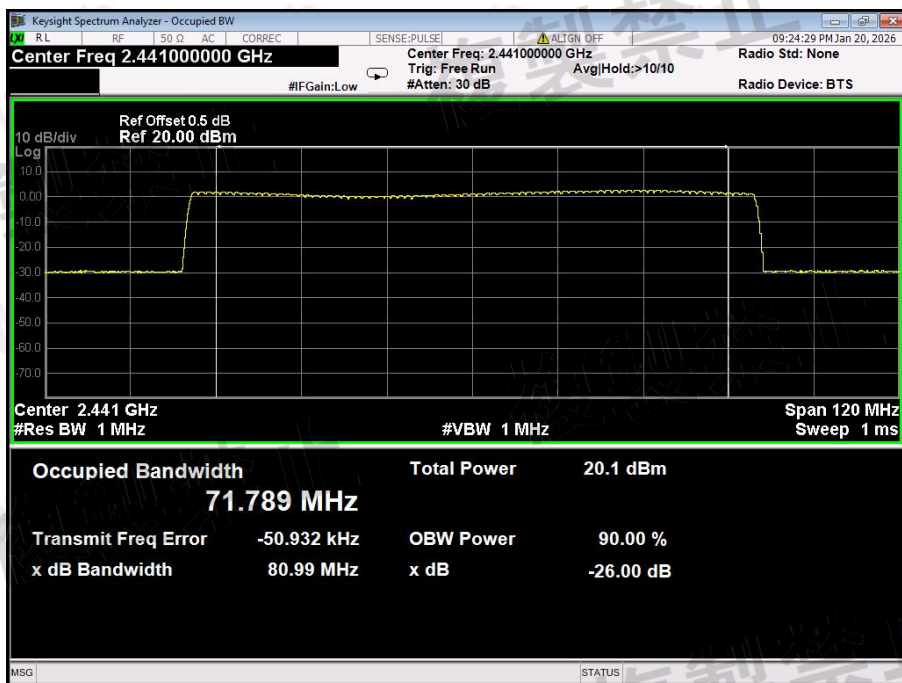


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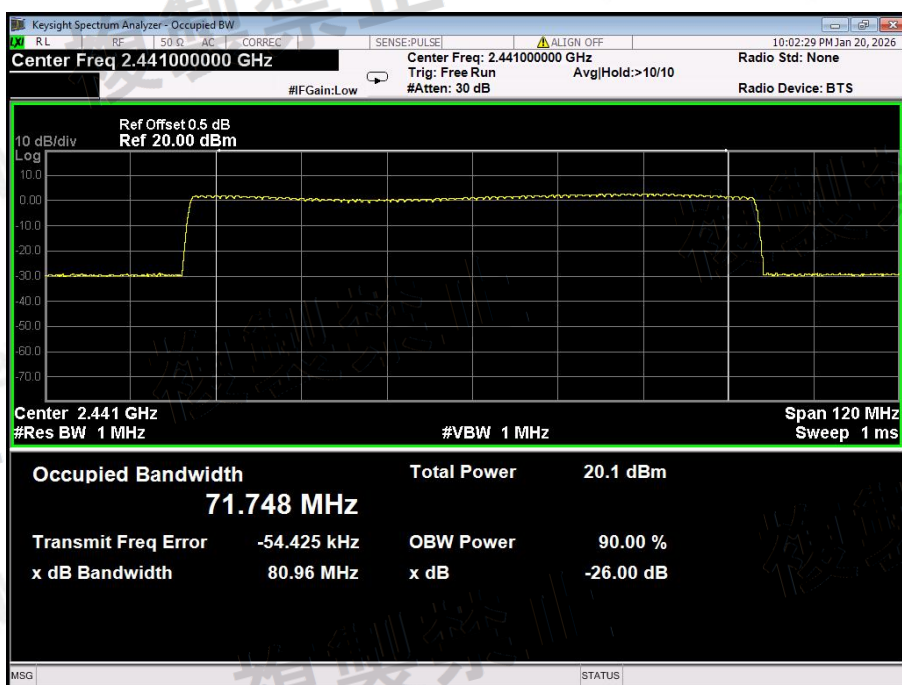
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EDR mode ($\pi/4$)DQPSK:



EDR mode 8DPSK:



3.4. DWELL TIME

LIMIT

Item	Limits
Hopping Freq. Dwell Time	$\leq 0.4 \text{ sec (In } 0.4 \text{ sec} \times \text{ spreading rate)}$

MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	0 MHz
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep	Continuous

TEST PROCEDURES

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for all packet transmitting.
- Measure the maximum time duration of one single pulse.
- Dwell time = $[\text{spreading rate}/79] \times \text{duty-cycle} \times 0.4 \text{ seconds}$. (to be determined for each mode)

TEST SETUP LAYOUT



TEST RESULT

Test result: Left ear

For FHSS: BR mode (GFSK):

Test data rate	spreading rate	Burst ms	burst cycle ms	Dwell Time ms	Limits ms
DH1	71.602	0.385	1.245	112	400
DH3		1.638	2.492	238	
DH5		2.880	3.726	280	

For FHSS: EDR mode($\pi/4$ DQPSK):

Test data rate	spreading rate	Burst ms	burst cycle ms	Dwell Time ms	Limits ms
2DH1	71.789	0.390	1.245	114	400
2DH3		1.655	2.495	241	
2DH5		2.849	3.738	277	

For FHSS: EDR mode(8DPSK):

Test data rate	spreading rate	Burst ms	burst cycle ms	Dwell Time ms	Limits ms
3DH1	71.748	0.380	1.245	111	400
3DH3		1.640	2.515	237	
3DH5		2.898	3.745	281	

Remark: Calculated method: Dwell time=(0.4(s) x [spreading rate] x [Transmission time of 1 burst(s)])/([burst cycle(s)]/[No. of hopping channel])

Note: Spreading rate=[Spread bandwidth (actual measurement value)]/[Transmission rate]

Transmission rate is 1.0 Mbps for GFSK mode;

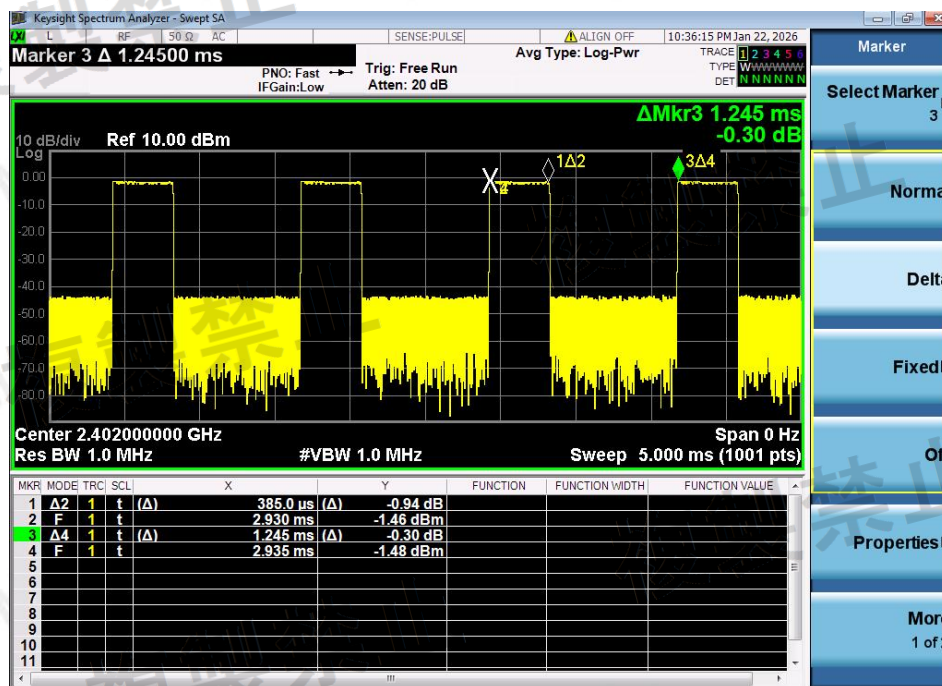
Transmission rate is 1.0 Mbps for $\pi/4$ DQPSK mode;

Transmission rate is 1.0 Mbps for 8DPSK mode.

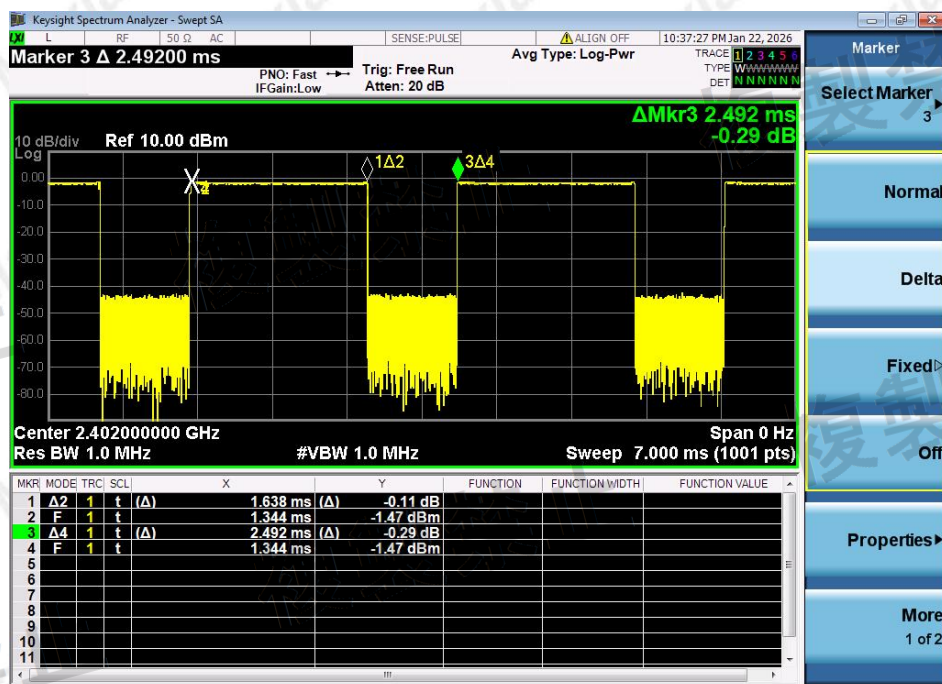
Result plot as follows:

BR mode (GFSK):

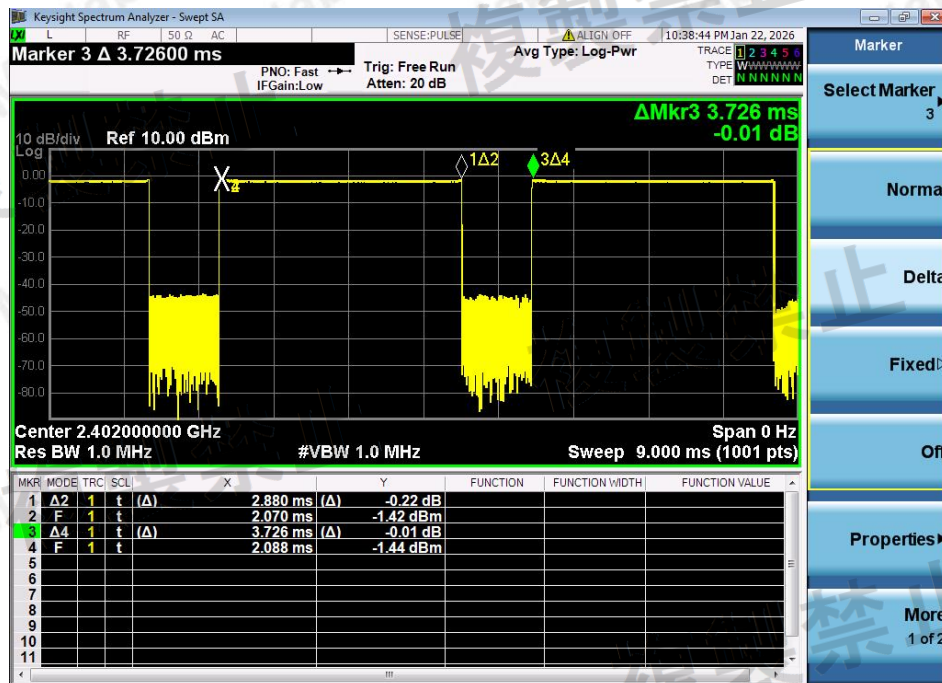
DH1



DH3:

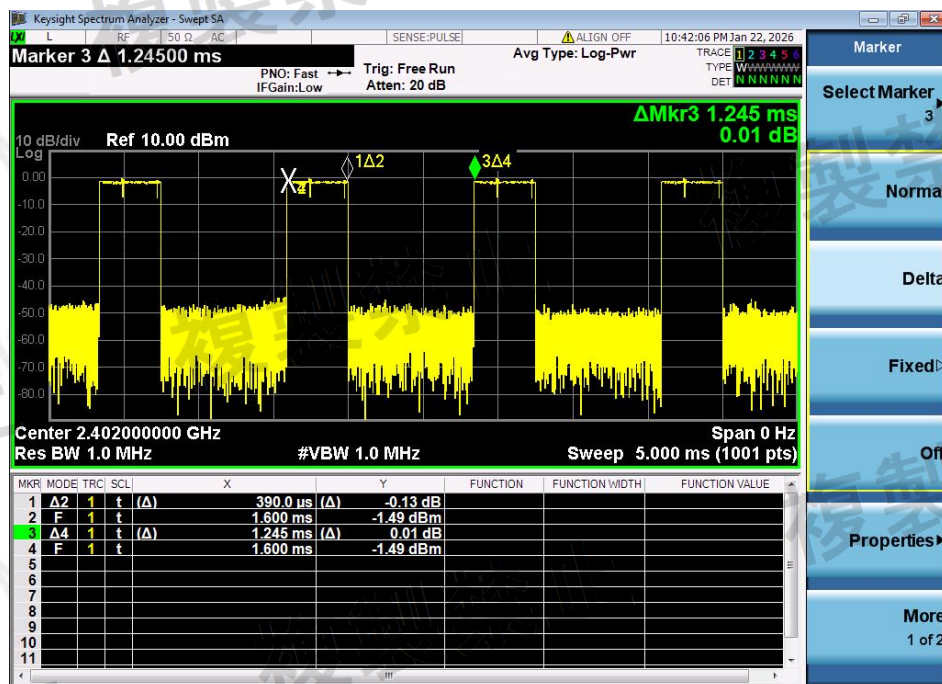


DH5

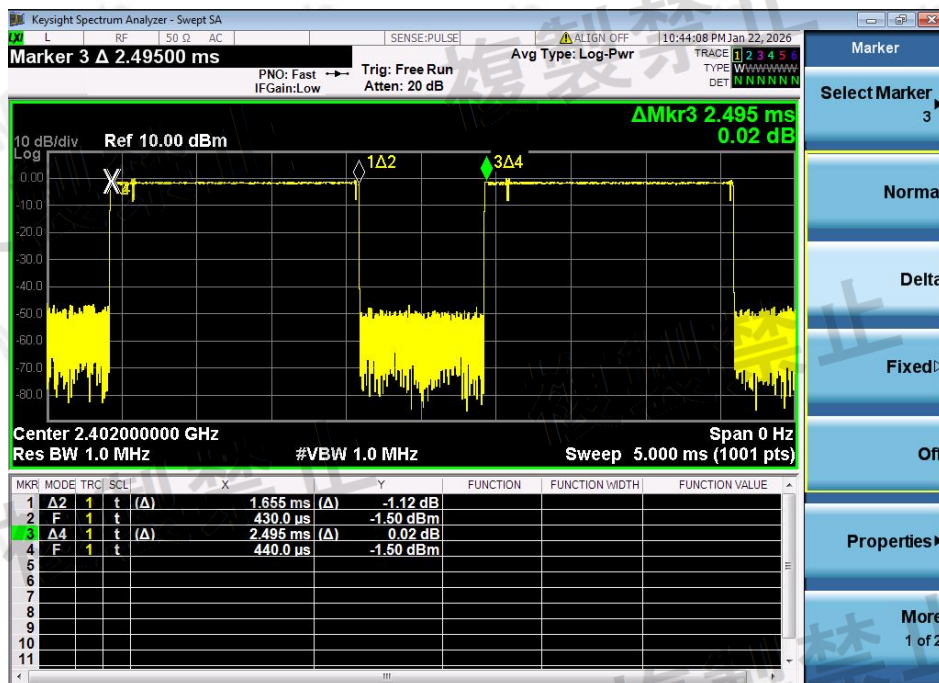


EDR mode ($\pi/4$ DQPSK):

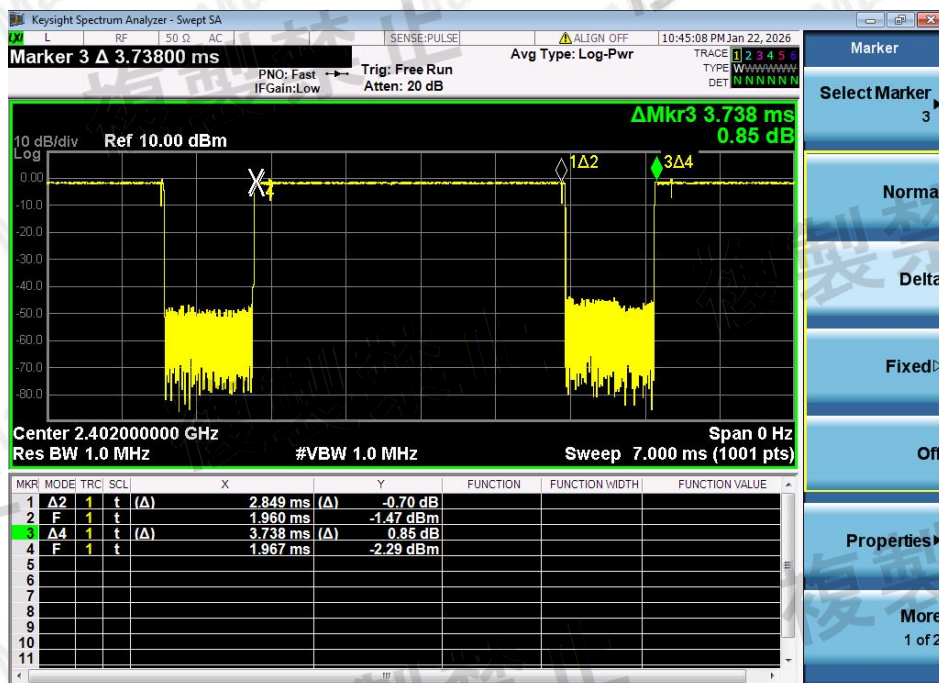
2DH1:



2DH3:

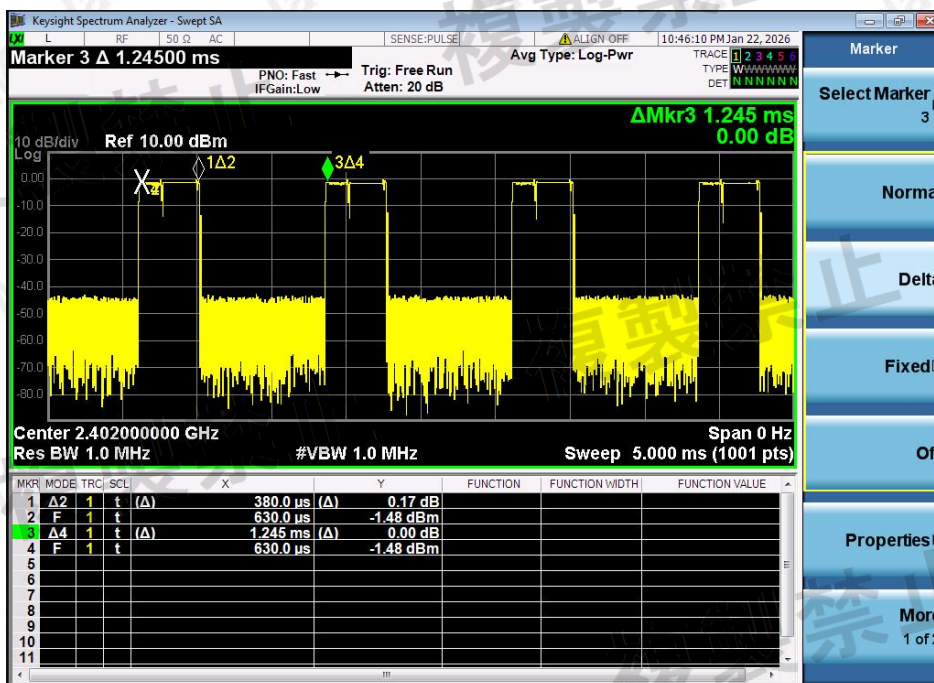


2DH5

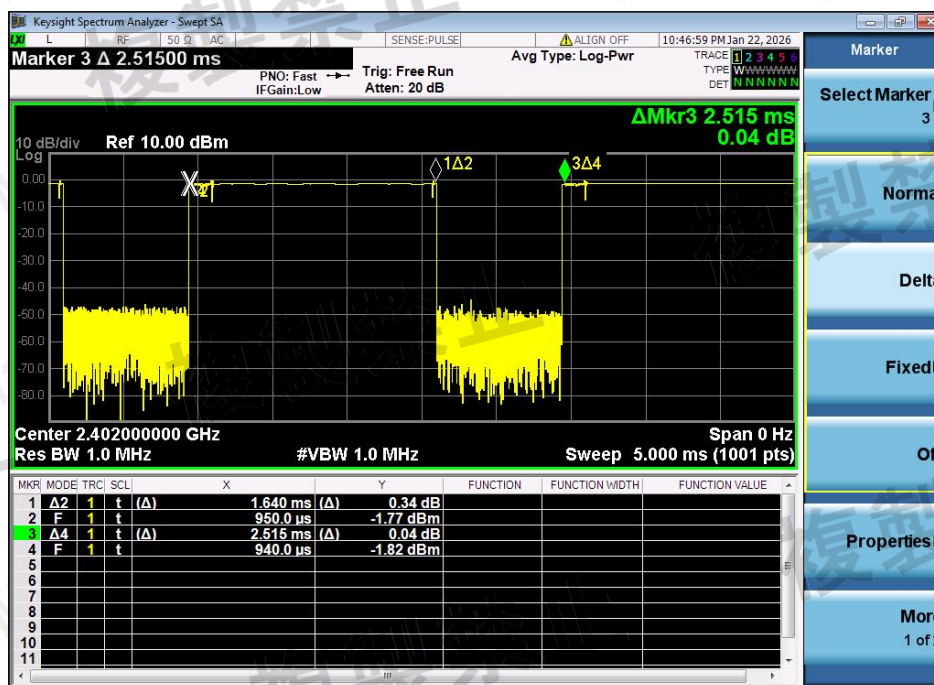


EDR mode (8DPSK):

3DH1:



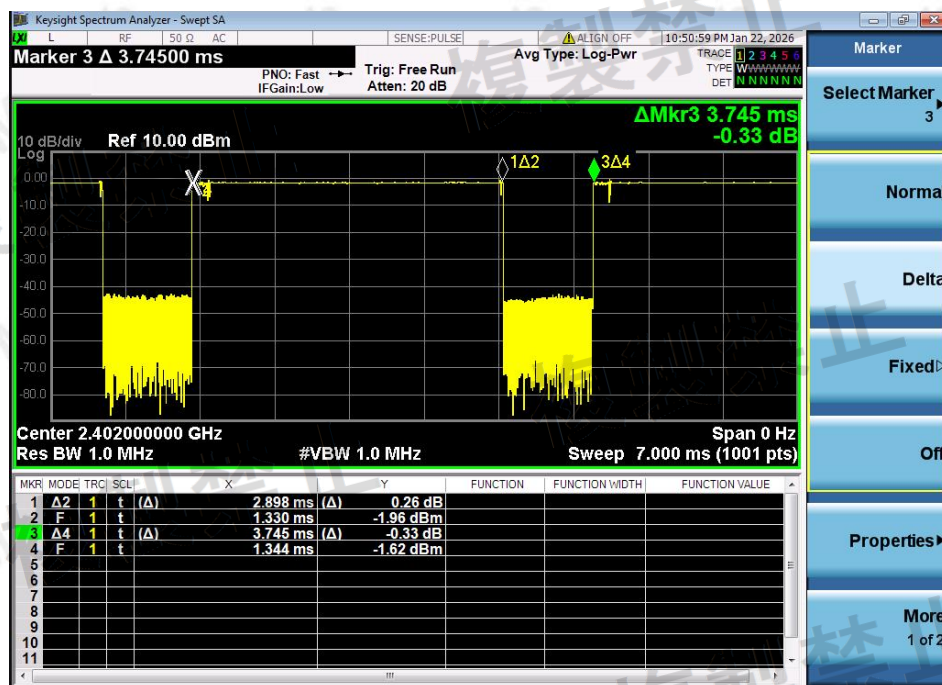
3DH3:





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3DH5



3.5. Unwanted Emission Strength

LIMIT

Below 2387 MHz: 2.5μW/MHz or less

2387 to 2400 MHz: 25μW/MHz or less

2483.5 Through 2496.5 MHz: 25μW/MHz or less

Over 2496.5 MHz: 2.5μW/MHz or less

Test Freq. Range	Limit μW/MHz	dBm/MHz
30MHz ≤ f ≤ 1000MHz	2.5μW/MHz or less	-36dBm/100kHz
1000MHz < f ≤ 2387MHz	2.5μW/MHz or less	-26dBm/MHz
2387MHz < f ≤ 2400MHz	25μW/MHz or less	-16dBm/MHz
2483.5MHz ≤ f < 2496.5MHz	25μW/MHz or less	-16dBm/MHz
2496.5MHz ≤ f < 12500MHz	2.5μW/MHz or less	-26dBm/MHz

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

RBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

VBW:100 KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

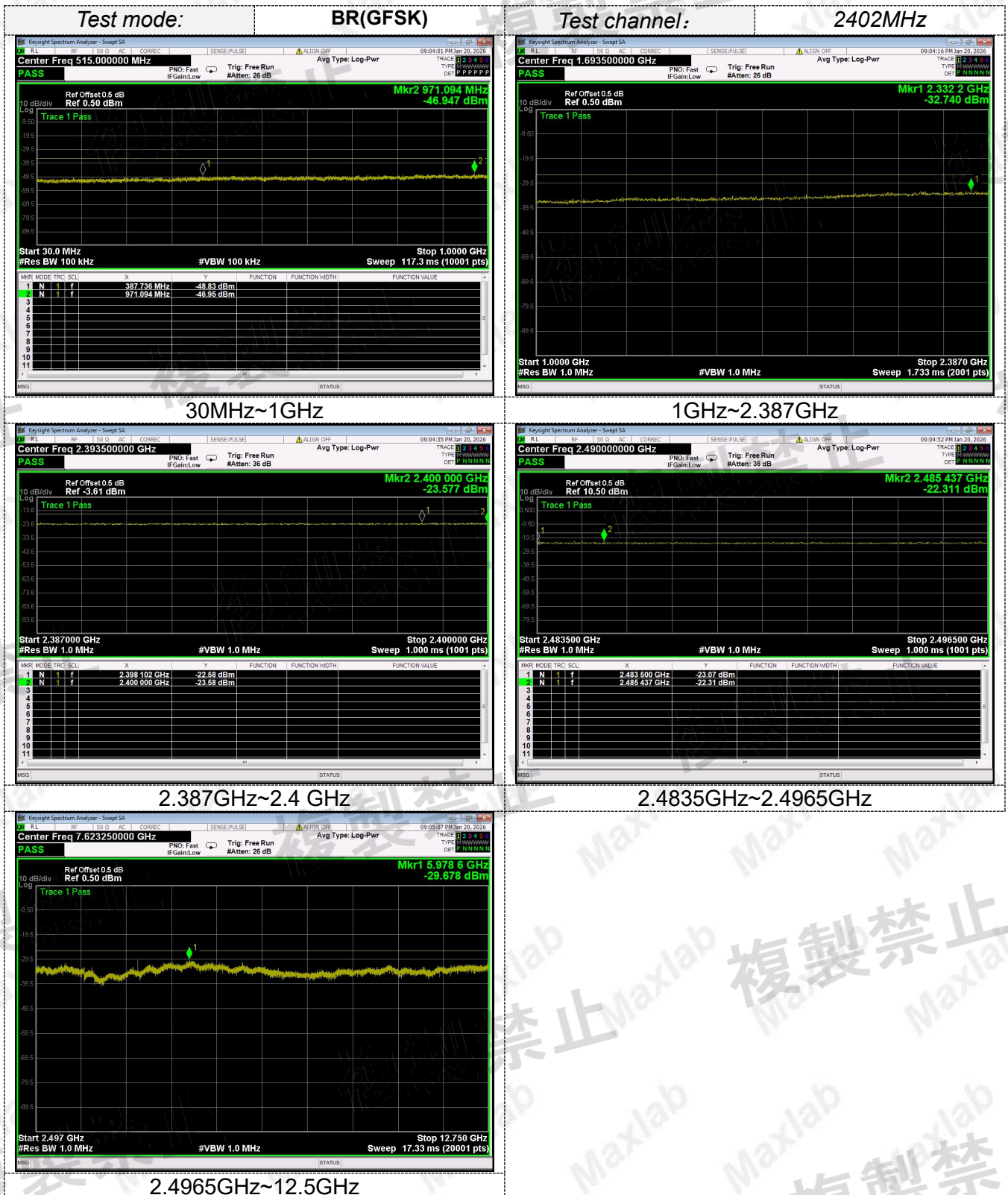


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TEST RESULTS





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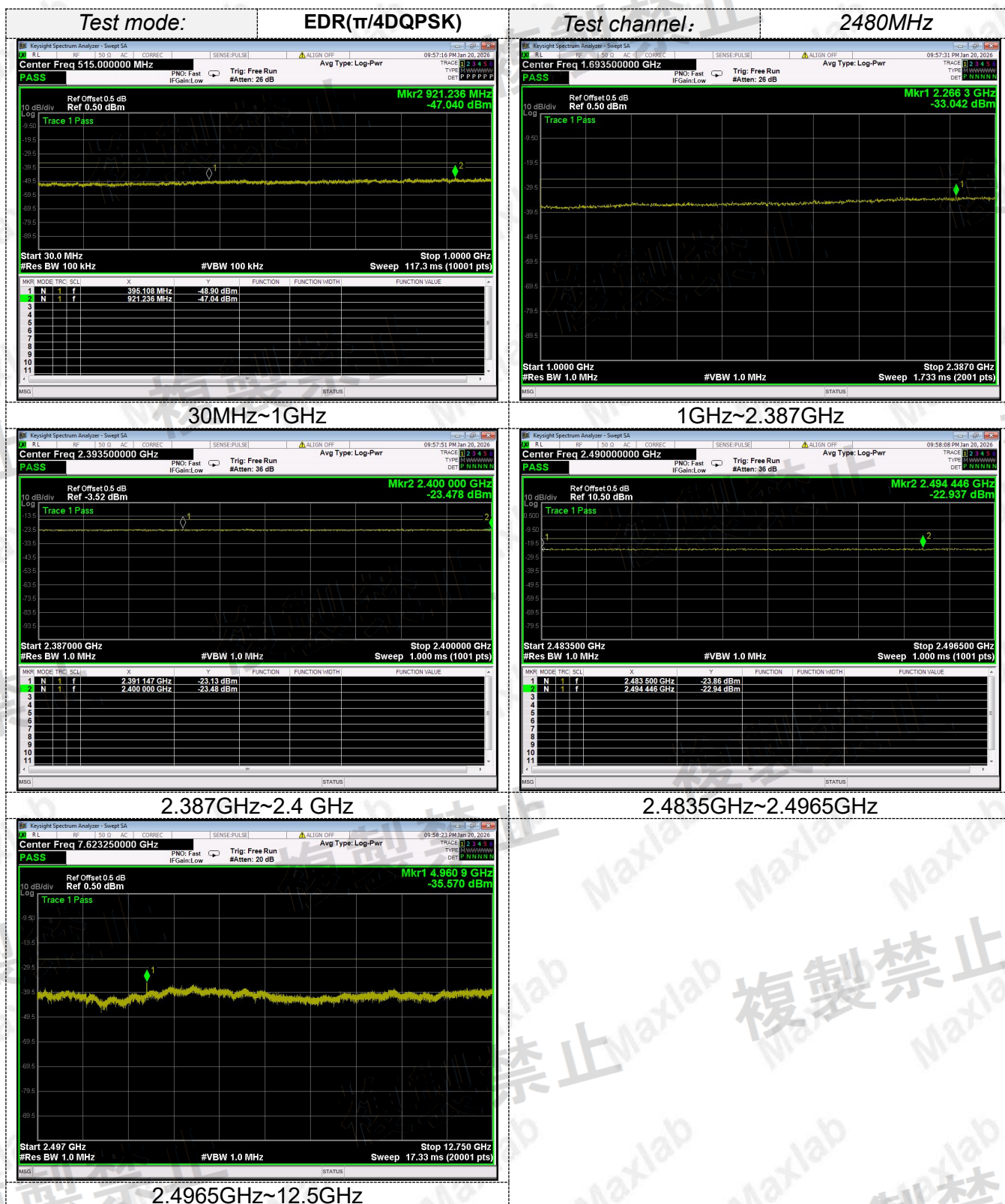


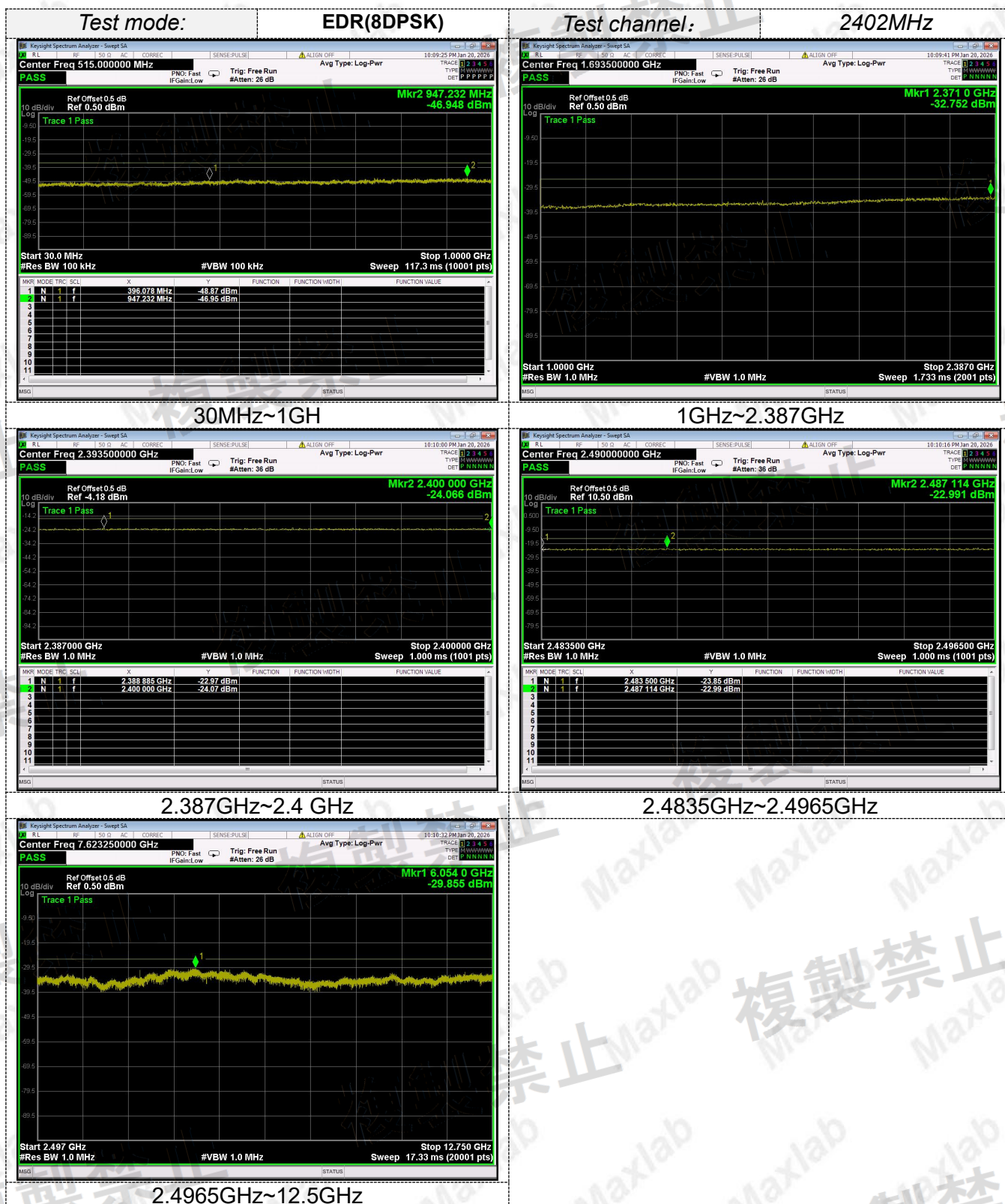
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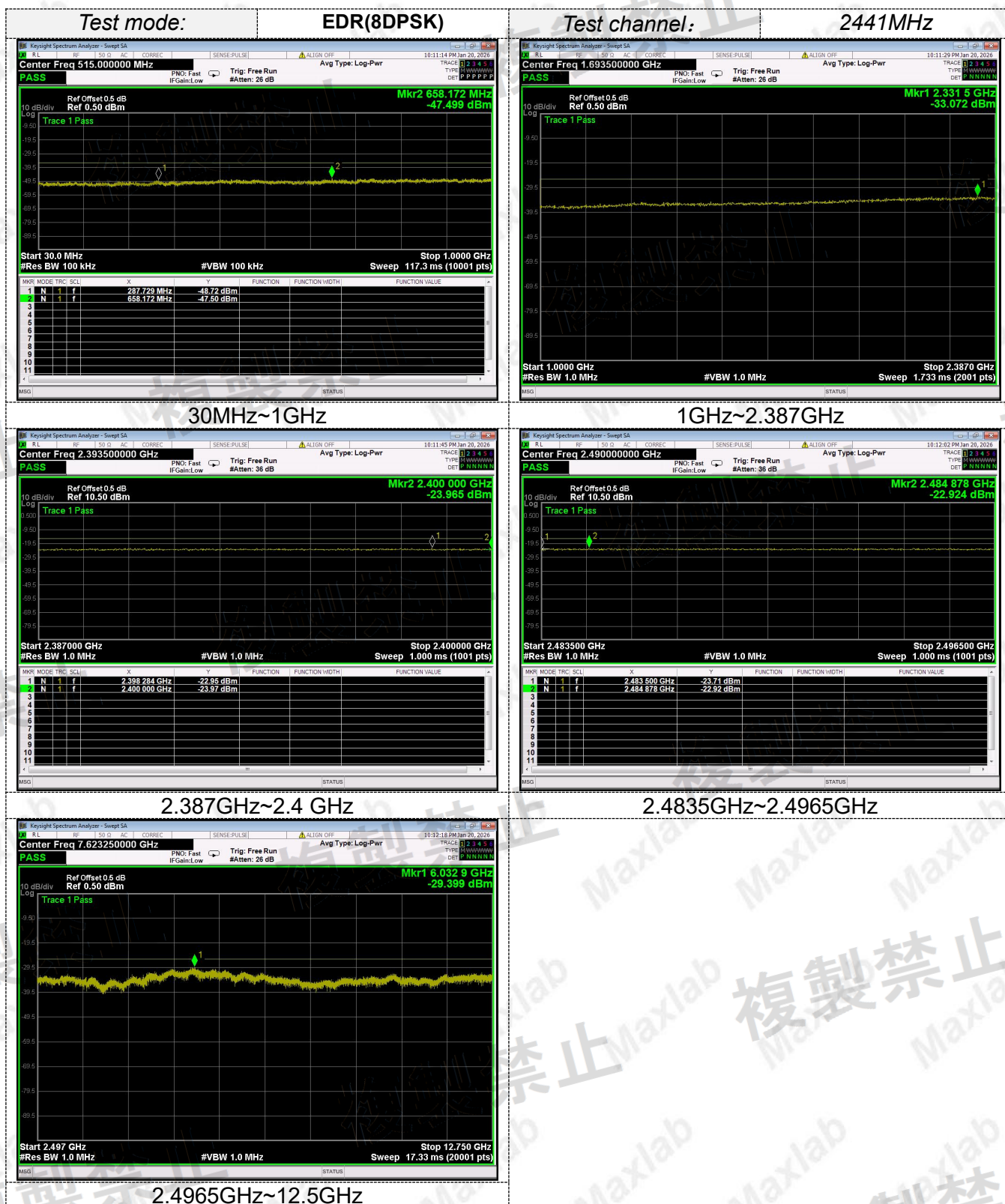
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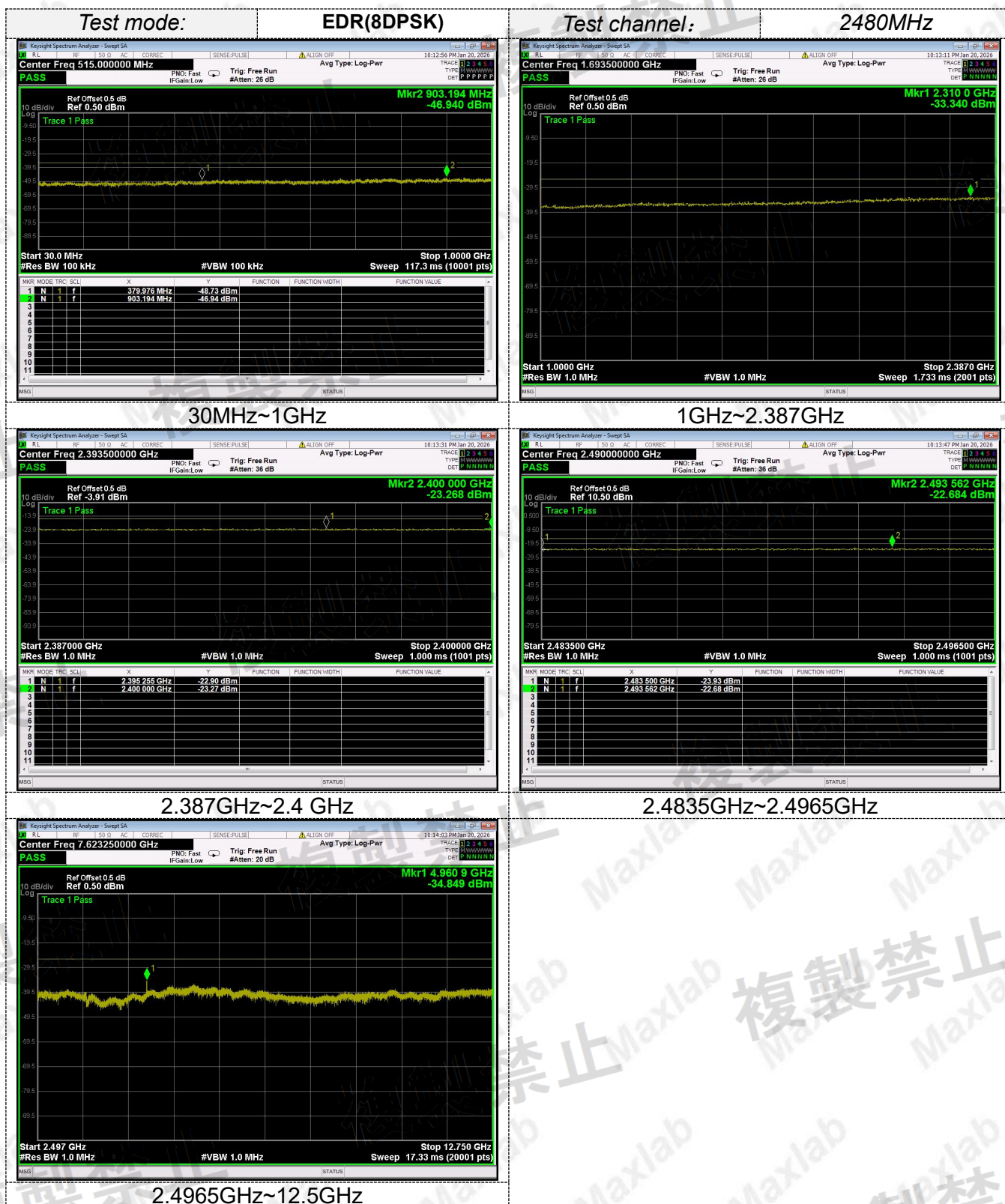
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3.6. Secondary Radiated Emission Strength

LIMIT

Below 1GHz: 4.0nW or less

Above 1GHz: 20nW or less

Test Freq. Range	Limit nW	Limit dBm
$30\text{MHz} \leq f \leq 1000\text{MHz}$	4.0	-54
$1000\text{MHz} < f \leq 13000\text{MHz}$	20	-47

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-13GHz

RBW: 100 KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

VBW:100 KHz (30MHz-1GHz), 1MHz (1GHz-13GHz)

Sweep time: Auto

Detector mode: Positive peak

Indication mode: max hold

TEST RESULTS

GFSK, $\pi/4$ DQPSK and 8DPSK are tested on low, middle, and high channels, and only the worst mode is recorded, with the worst mode being the low channel data.



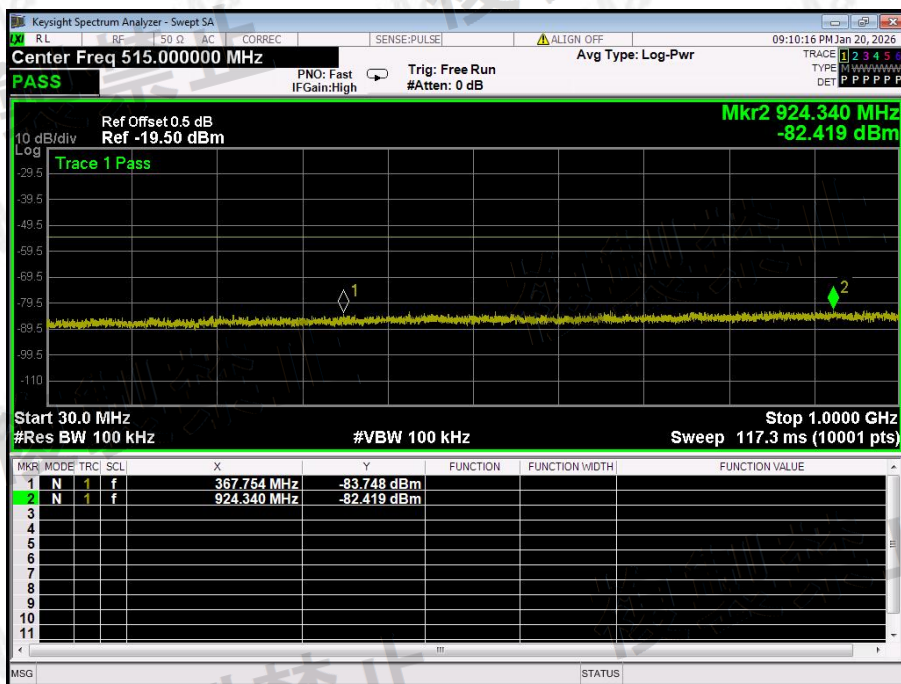
MAXLAB Testing Co.,Ltd.

Report No. MAX26010011P01-R01

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For FHSS: BR mode (GFSK):

30MHz to 1 GHz:

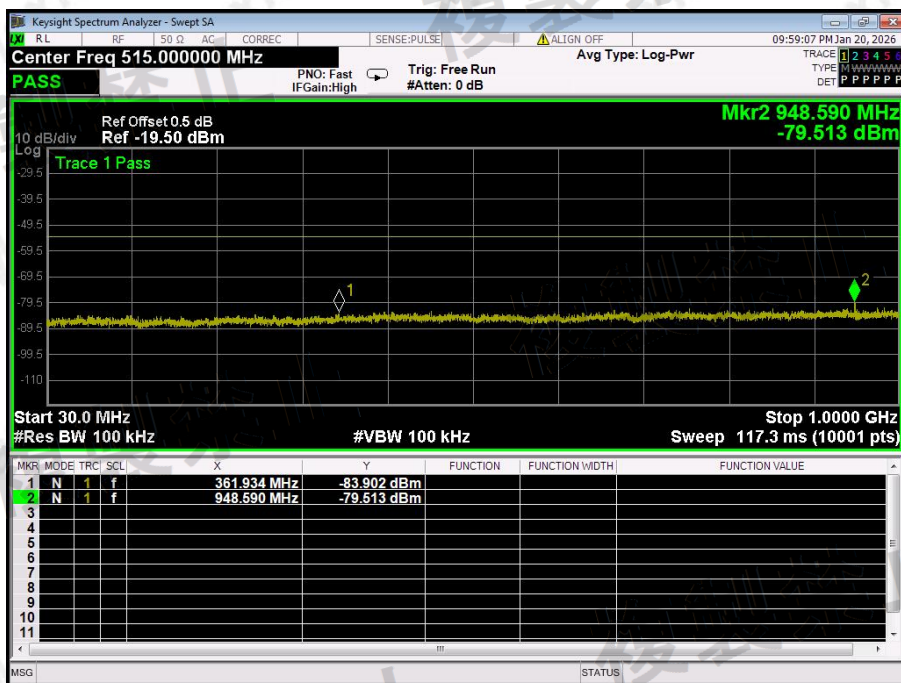


1 GHz to 13 GHz:



For FHSS: EDR mode ($\pi/4$ DQPSK):

30MHz to 1 GHz:



1 GHz to 13 GHz:





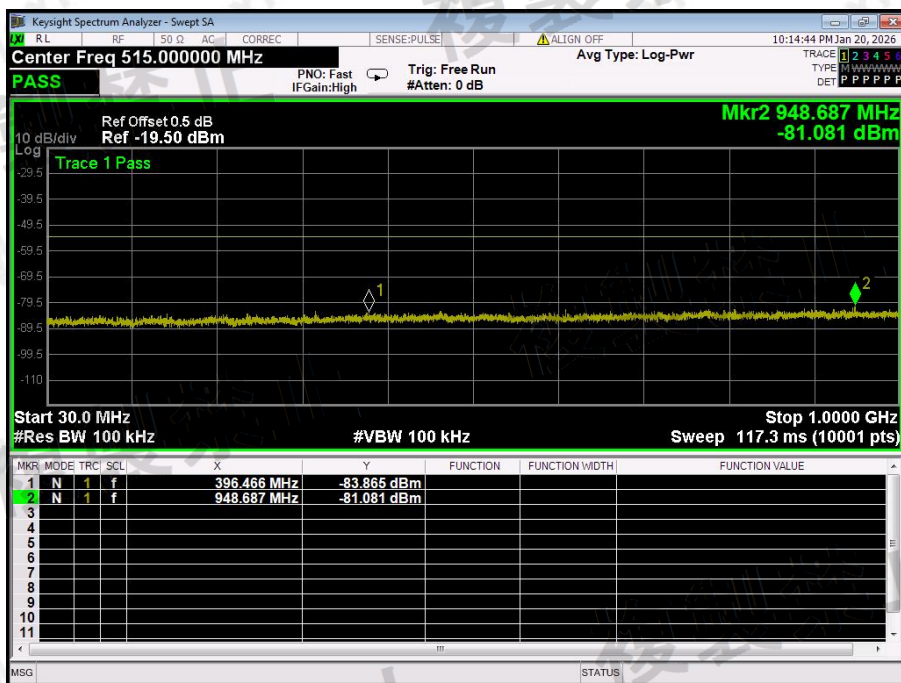
MAXLAB Testing Co.,Ltd.

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For FHSS: EDR mode (8DPSK):

30MHz to 1 GHz:



1 GHz to 13 GHz:



3.7. Transmission Antenna Gain(EIRP Antenna Power Measurement)

3.7.1 Limit

Item	Limits
EIRP Power Density	$\leq 16.91\text{dBm/MHz}$ (FH form 2427 - 2470.75 MHz) $\leq 22.14\text{dBm/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 22.14\text{dBm}$ (Other from 2400~2483.5MHz)
Note: This test item is not applied for radio equipment with equivalent isotropic radiation power lower than 12.14dBm/MHz, but Antenna Power(Conducted) limit is 10 mW/MHz (10 dBm/MHz), So the test item will not be applied to the transmission antenna which has a gain of 2.14dBi or less	

3.7.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.7.3 TEST PROCEDURES

Attenuation of the attenuator shall be set to provide an optimum input level to the spectrum analyzer.

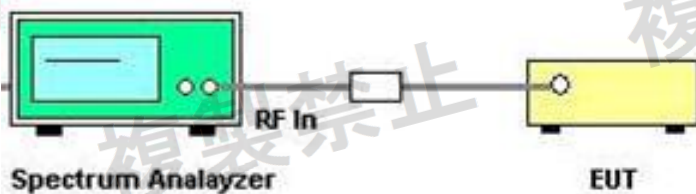
- Set the spectrum analyzer as follows for searching the frequency that outputs the maximum antenna power:

Center frequency:	Test frequency
Frequency sweep width:	Approximately twice of the occupied bandwidth
Resolution bandwidth:	1MHz
Video bandwidth:	Approximately three times of the resolution bandwidth
Y-axis scale:	10dB/Div
Sweep time:	Minimum time to ensure the measuring accuracy (In the case of burst wave, one burst shall be included per data point.)
Trigger condition:	Free run
Data points:	400 points or more
Sweep mode:	Continuous sweep
Detection mode:	Positive peak
Display mode:	Maximum hold

- When the trace is complete, find the peak value of the power envelope and record.
In the case of bandwidth above RBW, connect to power meter directly.
- Calculate antenna power density by the formula below $PT(\text{mW/MHz}) = 10^{\frac{\text{Conducted power density(dBm)}}{10}}$
- EIRP = Antenna Power + Antenna Gain

3.7.4 TEST SETUP LAYOUT

For EUT radiation measurement



3.7.5 TEST DEVIATION

There is no deviation with the original standard.

3.7.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

3.7.7 RESULTS OF TRANSMISSION ANTENNA GAIN

Type	Channel (MHz)	Output power (mW/MHz)	Output power (dBm/MHz)	Antenna gain (dBi)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Result
GFSK	/	0.0312	-15.06	1.68	-13.38	6.91	Pass
$\pi/4$ DQPSK		0.0298	-15.26	1.68	-13.58		
8DPSK		0.0302	-15.20	1.68	-13.52		

Note: EIRP = Output Power + Antenna Gain

3.8. Construction protection method

Requirement

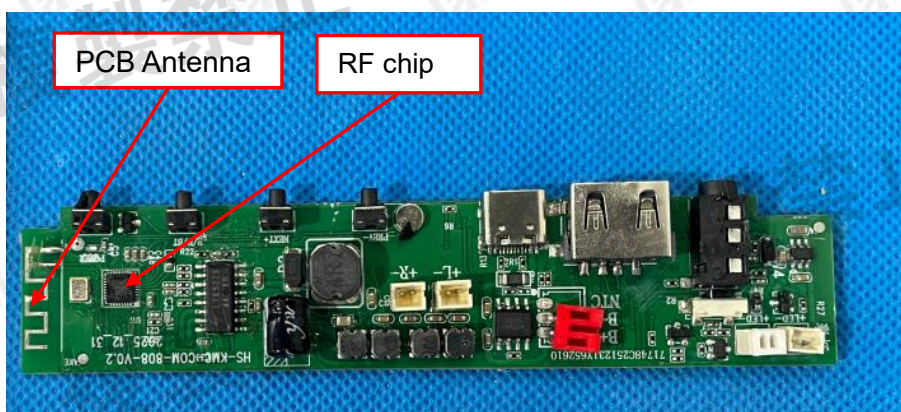
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily

Confirmation method

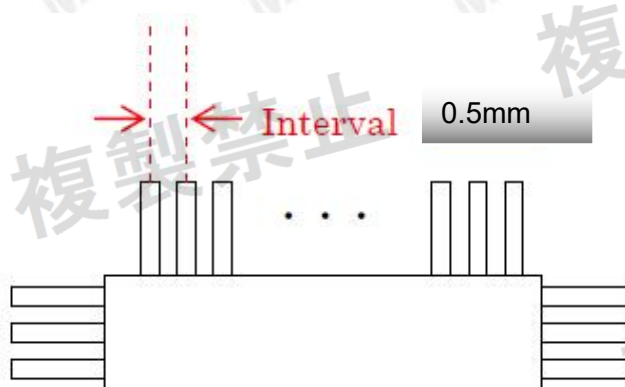
We apply the product for Japan RF certification. All high-frequency section and modulation section packet in one IC ,and The RF IC is Soldering BT RF IC in PCB , the chip pin spacing is very small, the customer can't change it. Please refer to following for photo for details.

The interval of terminals: 0.5mm

Number of the terminals:84



interval of terminals:



3.9. Interference Prevention Function

Requirement

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

Interference Prevention FunctionConfirm

A communication link was made where the ID code is correct (Identical).

TEST PROCEDURE

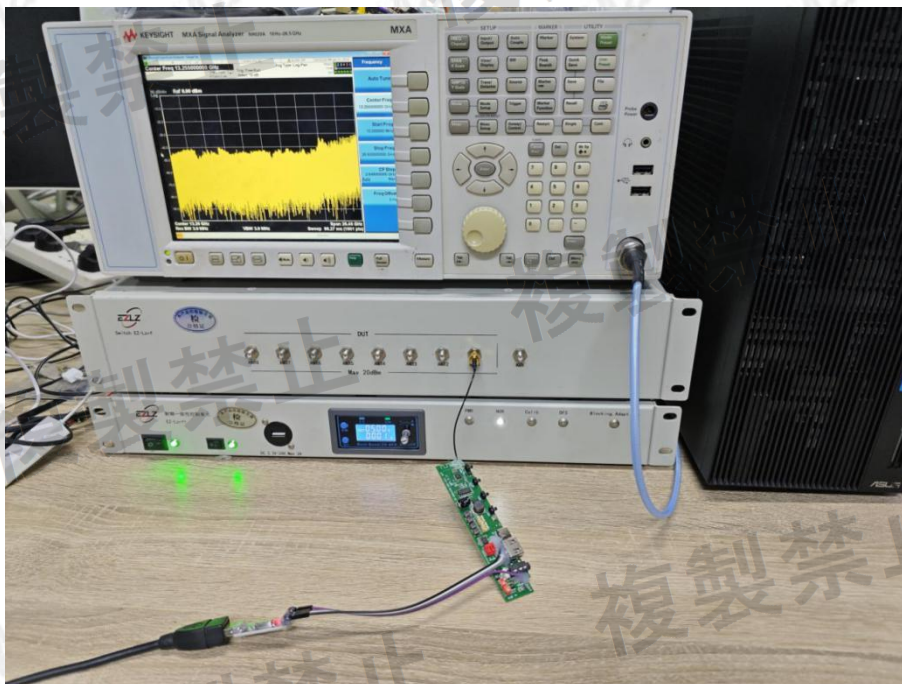
1. Connect the EUT in network
2. Open the software
3. We can get the information as follows:
BT MAC: 00:2g:f6:01:15:c1

TEST RESULTS



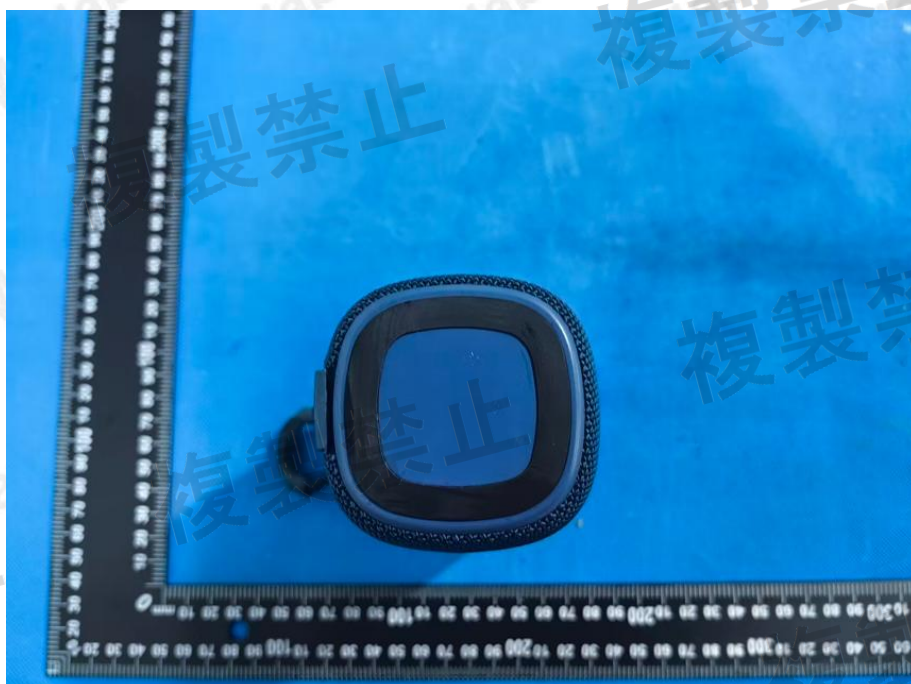
4. Test Setup Photos of the EUT

Measurement Photos



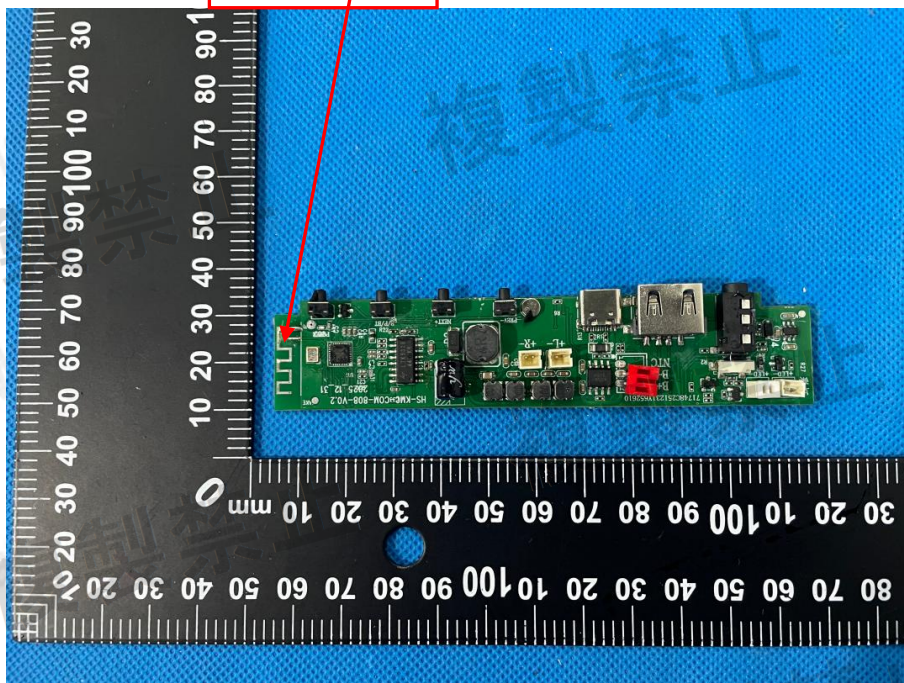
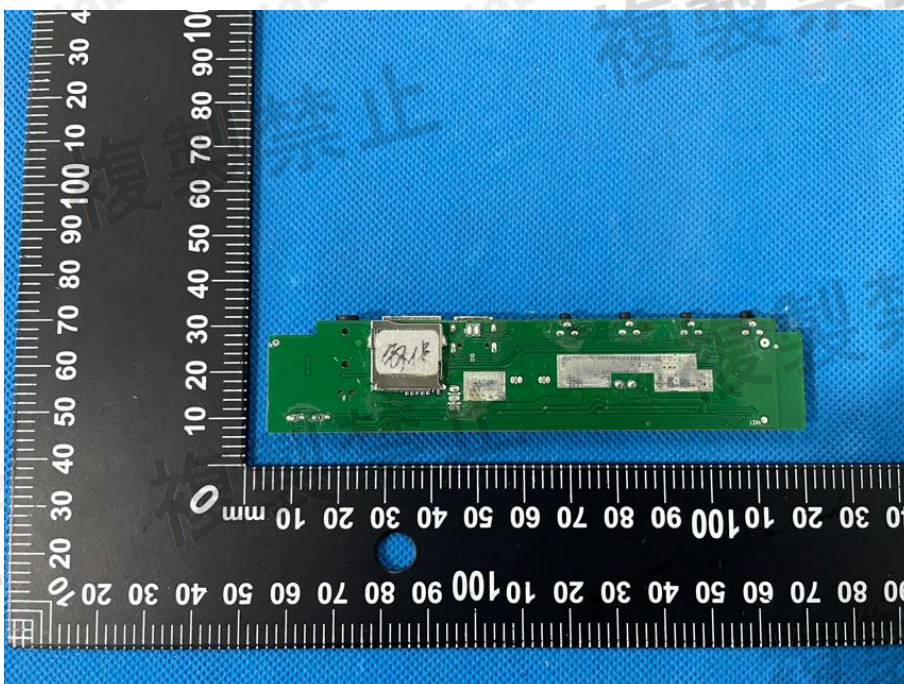
5. External and Internal Photos of the EUT







PCB Antenna



*****THE END*****