



MAXLAB Testing Co.,Ltd.

Report No.: MAX25120100P02-R03

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RADIOTEST REPORT

Ordinance Article 2 paragraph 1 item (19-2)

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.....: Smart Commercial Tablet PC

Model/Type reference.....: TZh-P12

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

Trade Mark.....: Micropos

Applicant' s name.....: Hubei Saobei Technology Co., Ltd.

Address of applicant.....: No. 2-104, Ezhou Street, Qingshan District, Wuhan City, Hubei Province

Representative 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 (19-2)
MIC Public Notice 88:2004, annex 1 and annex 43

Date of February 28, 2026
Receipt.....:

Date of Test Date.....: February 28, 2026-March 27, 2026

Data of Issue.....: March 30, 2026

Result.....: Positive

MAXLAB Testing Co.,Ltd.

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TEST REPORT

Equipment under Test : Smart Commercial Tablet PC

Model /Type : TZH-P12

Listed Models : /

Applicant : Hubei Saobei Technology Co., Ltd.

Address : No. 2-104, Ezhou Street, Qingshan District, Wuhan City, Hubei Province

Manufacturer : Hubei Saobei Technology Co., Ltd.

Address : No. 2-104, Ezhou Street, Qingshan District, Wuhan City, Hubei Province

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 OF TEST RESULTS

Test procedures according to the technical standards:

Rule Section	Description of Test	Result
III	Frequency Error	Complies
IV	Occupied Bandwidth (99%) and Spread-spectrum Bandwidth (90%)	Complies
V	Unwanted Emission Intensity	Complies
VI	Antenna Power Error	Complies
VII	Limitation of Collateral Emission of Receiver	Complies
VIII	Transmission Antenna Gain (EIRP Antenna Power)	Complies
VIII	Transmission Radiation Angle Width (3dB Beamwidth)	N/A
X	Radio Interference Prevention Capability	Complies
/	Carrier Sense Capability	Complies

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) MIC Public Notice 88:2004, annex 1 and annex 43
- (3) MIC Ordinance Regulating Radio Equipment Section 4.17 of Article 49.20

1.1 TEST FACILITY

Test Firm : **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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	Radiated Emission Test	$\pm 4.7\text{dB}$
3	RF power, conducted	$\pm 0.16\text{dB}$
4	Spurious emissions, conducted	$\pm 0.21\text{dB}$
5	All emissions, radiated (<1G)	$\pm 4.68\text{dB}$
6	All emissions, radiated (>1G)	$\pm 5.0\text{dB}$

1.3 TEST CONDITIONS

Temperature:	23.5°C
Pressure:	65%
Relative Humidity:	101.3kPa

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Commercial Tablet PC
Model/Type reference:	TZH-P12
Listed Model(s):	/
Model Difference	/
Antenna Type	PCB antenna
Antenna Gain	1.85 dBi
Operation frequency	WiFi 2.4G 802.11b/ g/ n(HT20):2412~2472 MHz WiFi 2.4G 802.11n(HT40): 2422~2462 MHz
Number of Channels	802.11b/g/ n(HT20): 13CH 802.11n(HT40): 9CH
Modulation Type	IEEE 802.11b: DSSS(CCK, DBPSK, DQPSK); IEEE 802.11g/n: OFDM(BPSK, QPSK, 16QAM, 64QAM)
Power Source	AC Voltage
Power Rating	AC 100~240V
Firmware Version	/
Hardware Version	MT6631N/B Datasheet

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. This report is for WIFI2.4G test report.

3.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452	13	2472
02	2417	06	2437	10	2457		
03	2422	07	2442	11	2462		
04	2427	08	2447	12	2467		

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442	10	2457		
05	2432	08	2447	11	2462		

4.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPC antenna	N/A	1.85	N/A

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively. See the test software manual for detailed settings.

Test software: EngineerMode			
Test mode	Power level	Rating power mW/MHz	Transmission rate Mbps
B Mode(802.11b) (CH01 CH07 CH13)	40	7.5	1
G Mode(802.11g) (CH01 CH07 CH13)	40	7.5	6.5
N20 Mode(802.11n) (CH01 CH07 CH13)	40	7.5	11
N40 Mode(802.11n) (CH03 CH07 CH11)	30	2.5	54

2.3 TEST CONDITIONS

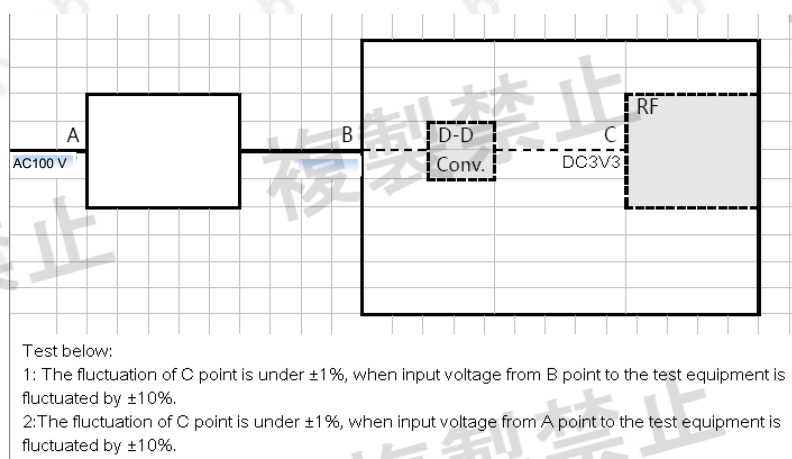
During the measurement the environmental conditions were within the listed ranges:

Power supply:

INPUT: DC 3.80V

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 100V AC



The measurement result of the voltage fluctuation at RF circuit when DC3.8V +/- 10%

Input:	DC 3.3V
DC 4.2V	3.3V
DC 3.8V	3.3V
DC 3.4V	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.

2.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date	Calibration unit
1	Spectrum Analyzer	Agilent	N9020A	MY112299	2025.05.25	2026.05.24	CCIC
2	RF Cable 1#	FUJIKURA	5D-2W	01	2025.05.25	2026.05.24	CCIC
3	DC power supply	ANS	JS122D	00415	2025.05.25	2026.05.24	CCIC
4	Power meter	EVERFINE	PF9802B	P185825CD1 371134	2025.05.25	2026.05.24	CCIC
5	Digital Multimeter	Fluke	15B+	17091822	2025.05.25	2026.05.24	CCIC
6	Digital Oscilloscope	Tektronix	TDS1012B	S007	2025.05.25	2026.05.24	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. 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

The RF module uses was covered by metal shielded cover and there are no any adjustable parts on PCB or adjustable parts are not exposed.



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4. TEST RESULT FOR WIFI

4.1 NUMBER OF CARRIER

4.1.1 LIMIT

The number of carrier: 1 or more 1MHz

4.1.2 TEST RESULT

This device has more than 1 subcarrier in 1MHz, compliances with the requirement.

4.2 FREQUENCY ERROR

4.2.1 LIMIT

Item	Limits
Frequency Error	+/-50ppm

4.2.2 MEASURING INSTRUMENTS AND SETTING

The following table is the setting of Spectrum Analyzer.

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

4.2.3 TEST PROCEDURES

- (1) In the case of unmodulated signal (continuous or continuous burst), measure the frequency directly by a frequency meter.
- (2) In the case of burst waves, the measurement shall be done for enough time in order to obtain the enough measuring accuracy, and the average of the measured values becomes the final value.
- (3) In the case of a test mode with a specific frequency spectrum, measure the frequency of the specific spectrum by a spectrum analyzer.
- (4) In the cases above, if the frequency equivalent to the test frequency is not directly measured in principle, it shall be obtained by necessary calculation.

In the case of modulated signal, if there is no specific spectrum measurable by a spectrum analyzer but a specific dip is observed, it is allowed to measure the frequency with the signal generator (synthesized). That is, observe a signal of the signal generator concurrently (or alternately) with the tested signal using the spectrum analyzer while setting the frequency of the signal generator to the position of the dip on the screen of the spectrum analyzer, and determine the frequency of the signal generator at the time as a measured value.

```

graph LR
    EUT[EUT] --> DummyLoad[Dummy load (Attenuator)]
    DummyLoad --> Spectrum[Spectrum]

```

The EUT was placed on the test table and programmed in un-modulation function.

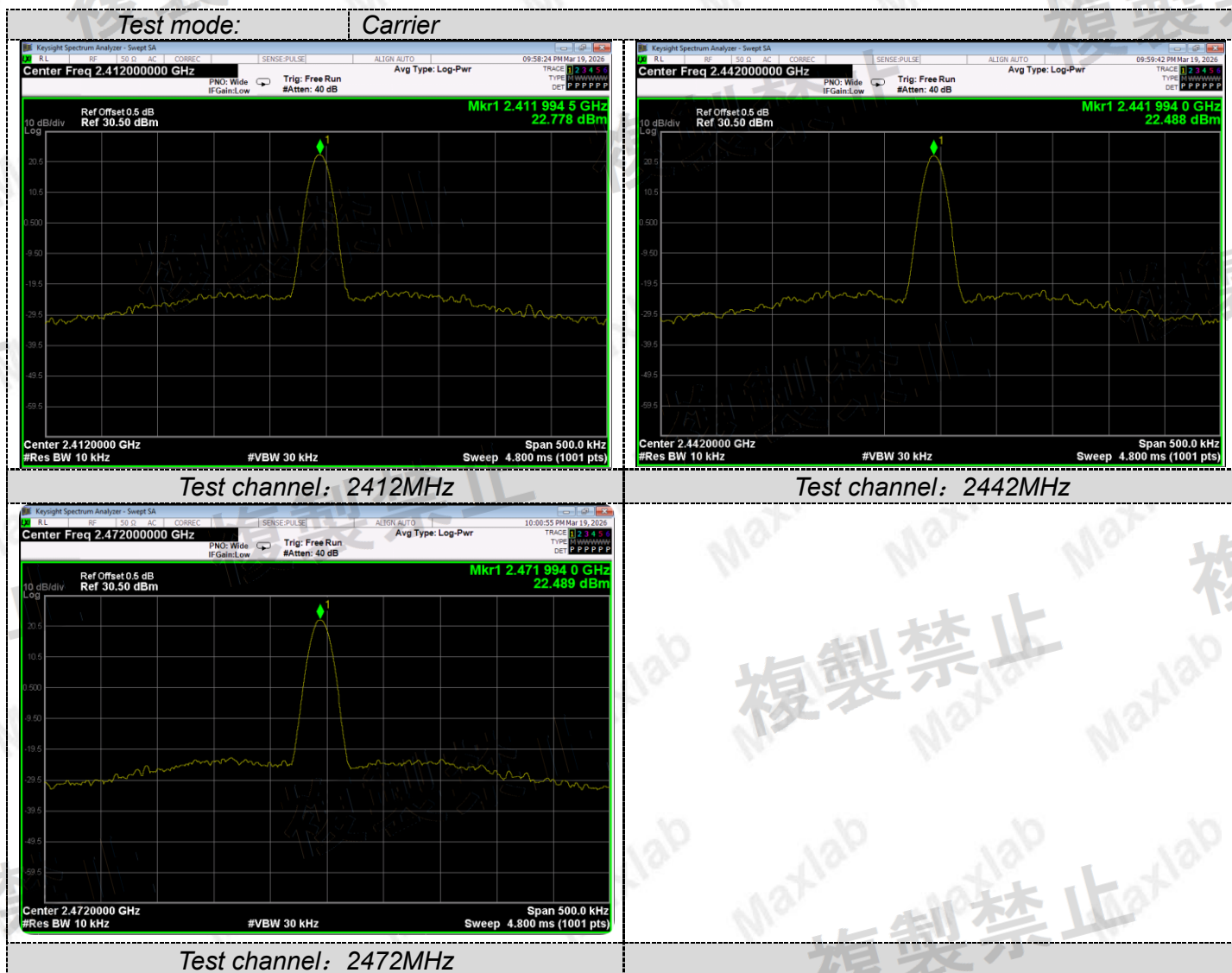
Mode	CH	FRQC. MHz	Measured	Tolerance	Result	Limit
			MHz	MHz	ppm	ppm
Carrier Tx Mode	CH1	2412	2411.995	-0.005	-2.1	+/-50
	CH7	2442	2441.994	-0.006	-2.5	+/-50
	CH13	2472	2471.994	-0.006	-2.4	+/-50
Carrier Tx Mode 802.11n40	CH3	2422	2421.994	-0.006	-2.5	+/-50
	CH7	2442	2441.994	-0.006	-2.5	+/-50
	CH11	2462	2461.994	-0.006	-2.4	+/-50
Conclusion: PASS						



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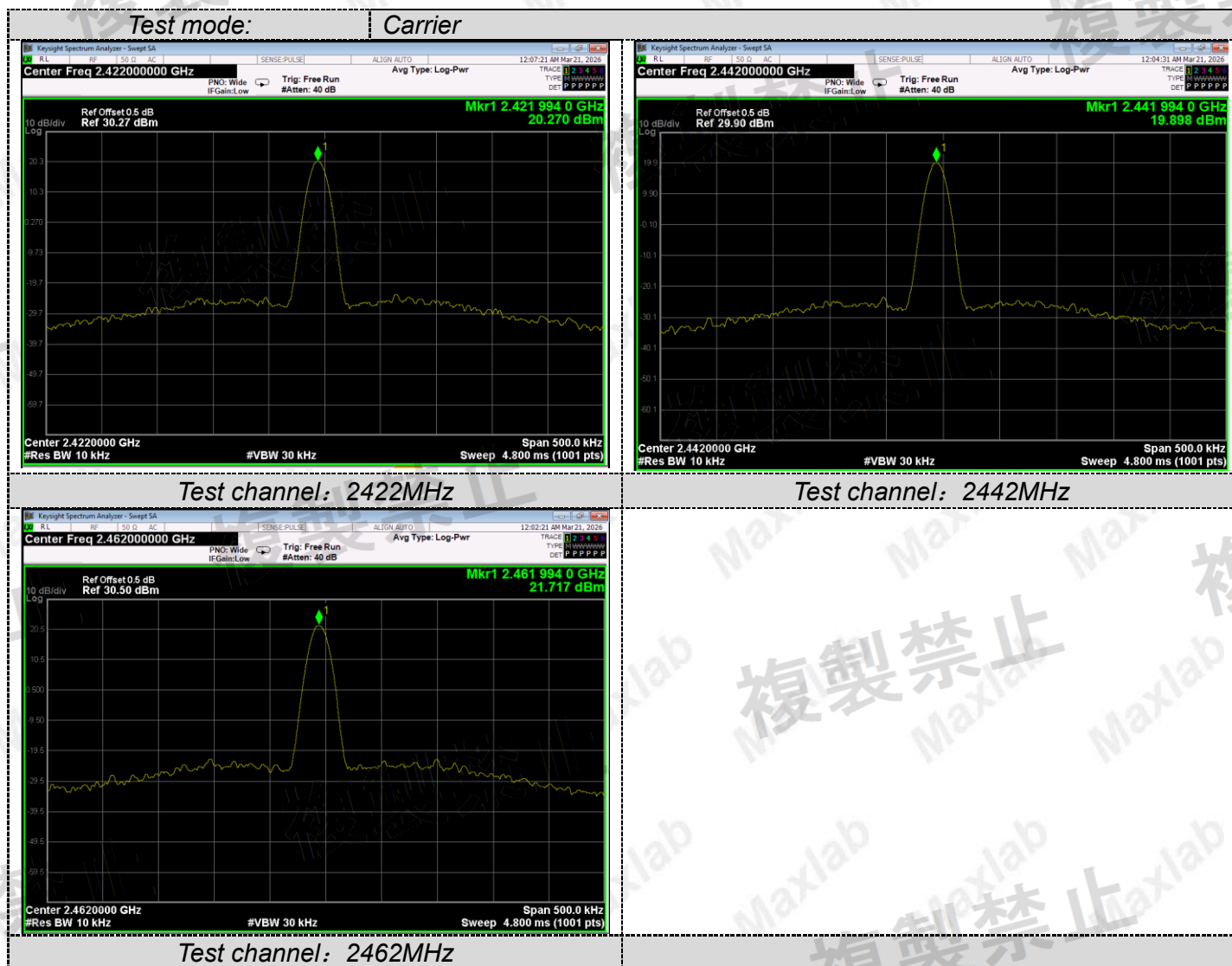




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4.3 ANTENNA POWER

4.3.1 LIMIT

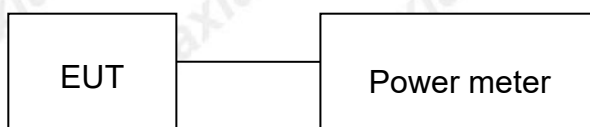
Item	Limits
Antenna Power Density	$\leq 3\text{mW/MHz}$ (FH form 2427 - 2470.75 MHz) $\leq 10\text{mW/MHz}$ (OFDM,DS from 2400~2483.5MHz) $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)
Antenna Power Error	+20%% (Base on manufacturer declare antenna power density)

4.3.2 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

4.3.3 TEST SETUP LAYOUT



4.3.4 TEST RESULT

Mode	Channel (MHz)	Output power (dBm/MHz)	output power density (mW/MHz)	Limit (mW/MHz)	Rated power density (mW/MHz)	Antenna Power Error (%)	Limit	Result
802.11b	2412	8.652	7.332	10	7.5	-2.25%	+20%	Pass
	2442	8.745	7.490	10	7.5	-0.13%		
	2472	8.652	7.332	10	7.5	-2.25%		
802.11g	2412	8.241	6.670	10	7.5	-11.07%	+20%	Pass
	2442	8.124	6.492	10	7.5	-13.44%		
	2472	8.065	6.405	10	7.5	-14.60%		
802.11n20	2412	7.524	5.655	10	7.5	-24.61%	+20%	Pass
	2442	7.325	5.401	10	7.5	-27.98%		
	2472	7.234	5.289	10	7.5	-29.48%		
802.11n40	2422	3.652	2.318	10	2.5	-7.26%	+20%	Pass
	2442	3.524	2.251	10	2.5	-9.95%		
	2462	3.632	2.308	10	2.5	-7.69%		

4.4 OCCUPIED BANDWITH

4.4.1 LIMIT

Item	Limits
Occupied Band Width:	FH 83.5MHz; OFDM,DSSS $\leq$ 26MHz;Others $\leq$ 26MHz
Spreading Bandwidth:	$\geq$ 500 kHz (FH, OFDM,DSSS)

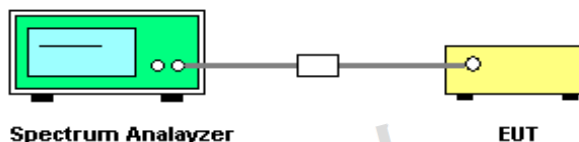
4.4.2 MEASURING INSTRUMENTS AND SETTING

Spectrum Parameter	Setting
Attenuation	Auto
RB / VB	100kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.4.3 TEST PROCEDURES

- Setting of SA is following as: RB: 100kHz / VB:100kHz / SPAN: 40MHz / AT: 30dB Ref: 20dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize (For DSSS or OFDM Device) or continuous maximum power of hopping mode(For FHSS Device). SA set to 99% of occupied bandwidth to measure occupied bandwidth. The limit is less than 26MHz(For DSSS or OFDM Device) or 83.5MHz(For FHSS Device).
- SA set to 90% of occupied bandwidth to measure Spread Spectrum Bandwidth and must greater than 500kHz.
- Spread Spectrum Factor = Spread Spectrum Bandwidth / modulation rate of EUT.
- Spread Spectrum Factor limit is greater than 5

4.4.4 TEST SETUP LAYOUT



4.4.5 TEST DEVIATION

There is no deviation with the original standard.

4.4.6 EUT OPERATION DURING TEST

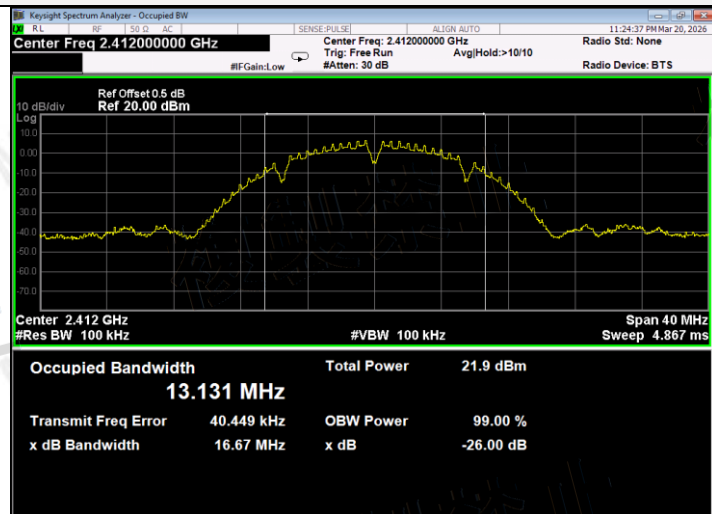
The EUT was programmed to be in continuously transmitting mode.

4.4.7 TEST RESULT

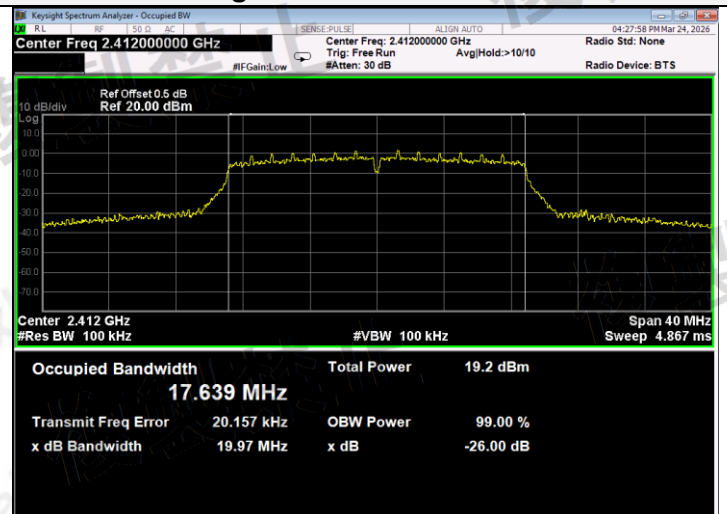
Occupied Bandwidth (99%)

Test Condition	Test Mode	Test Channel	Test Result[MHz]	Limit [MHz]	Verdict
TNVN	802.11b	2412	13.131	≤ 26	PASS
TNVN	802.11b	2442	13.456	≤ 26	PASS
TNVN	802.11b	2472	13.011	≤ 26	PASS
TNVN	802.11g	2412	17.639	≤ 26	PASS
TNVN	802.11g	2442	17.687	≤ 26	PASS
TNVN	802.11g	2472	17.542	≤ 26	PASS
TNVN	802.11n20	2412	17.642	≤ 26	PASS
TNVN	802.11n20	2442	17.670	≤ 26	PASS
TNVN	802.11n20	2472	17.513	≤ 26	PASS
TNVN	802.11n40	2422	36.671	≤ 38	PASS
TNVN	802.11n40	2442	36.076	≤ 38	PASS
TNVN	802.11n40	2462	35.584	≤ 38	PASS

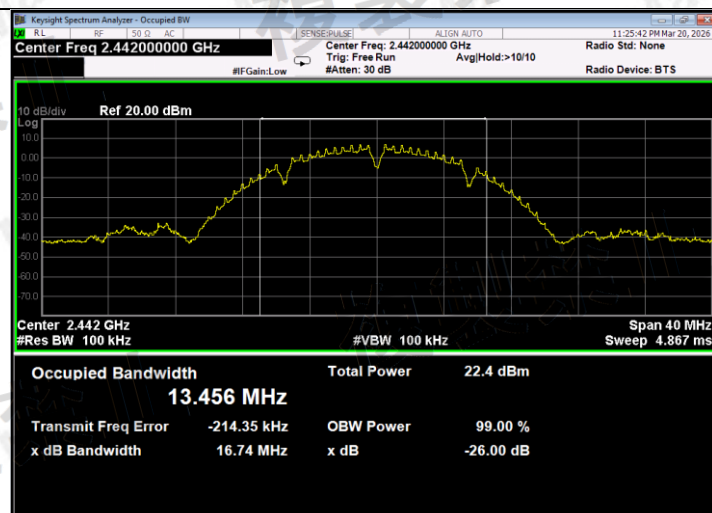
802.11b 99% BANDWIDTH DATA



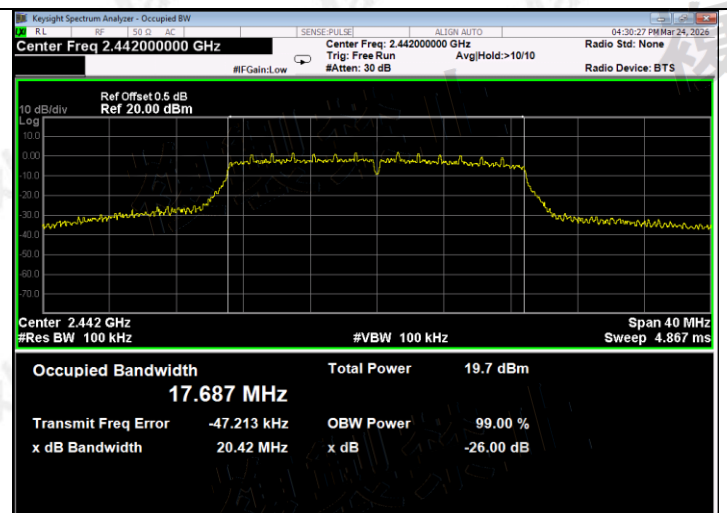
802.11g 99% BANDWIDTH DATA



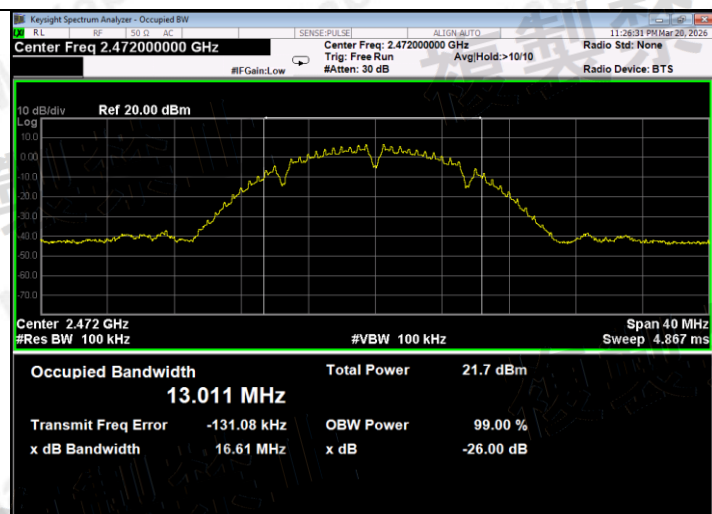
2412MHz



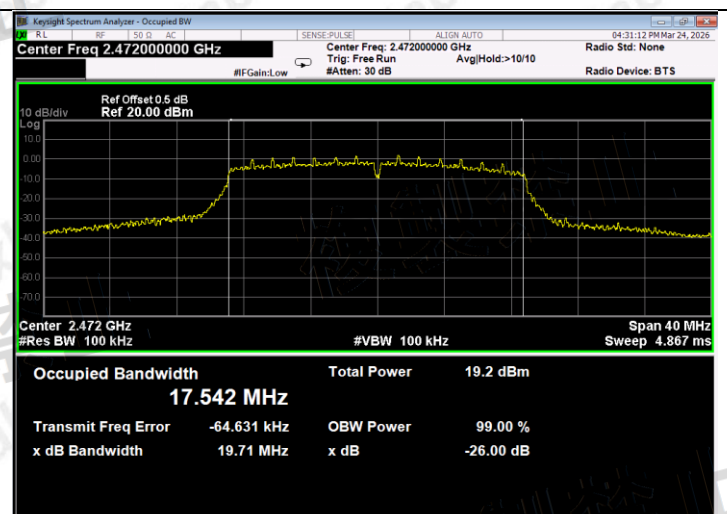
2412MHz



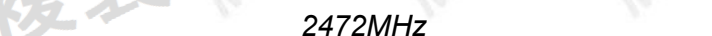
2442MHz



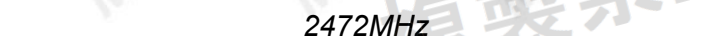
2442MHz



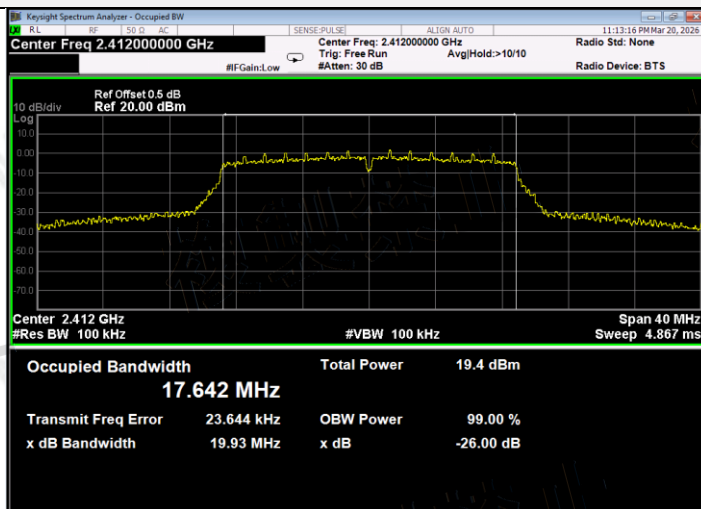
2472MHz



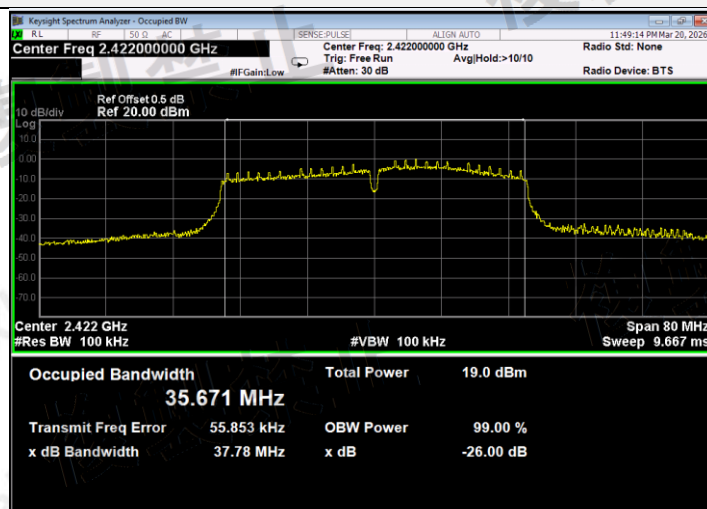
2472MHz



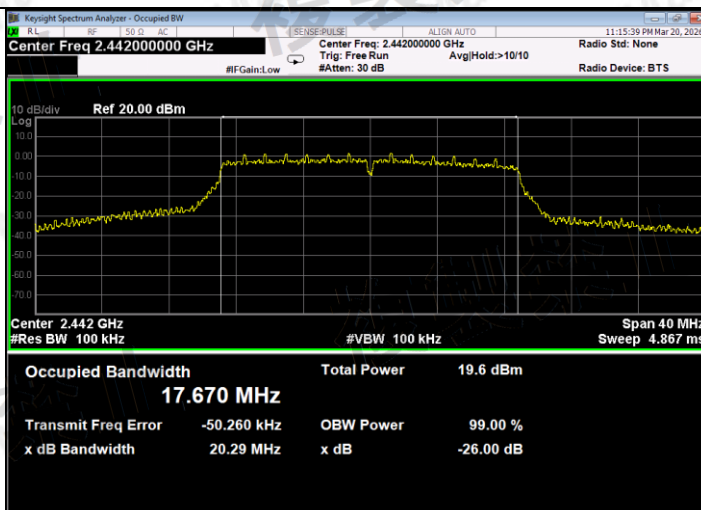
802.11n20 99% BANDWIDTH DATA



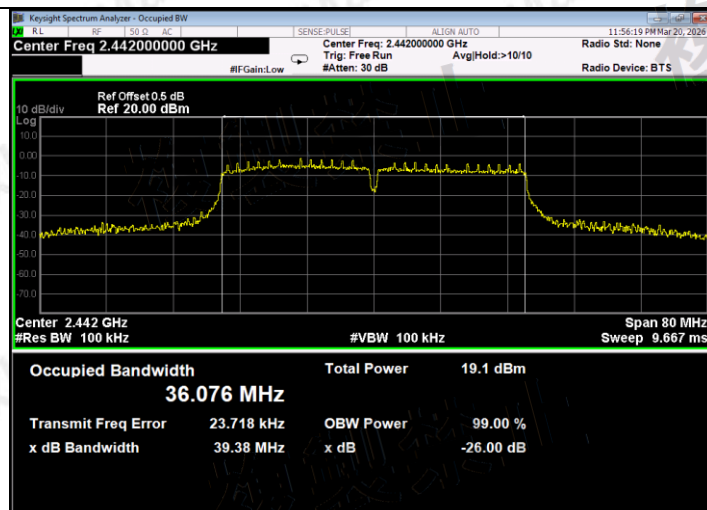
802.11n40 99% BANDWIDTH DATA



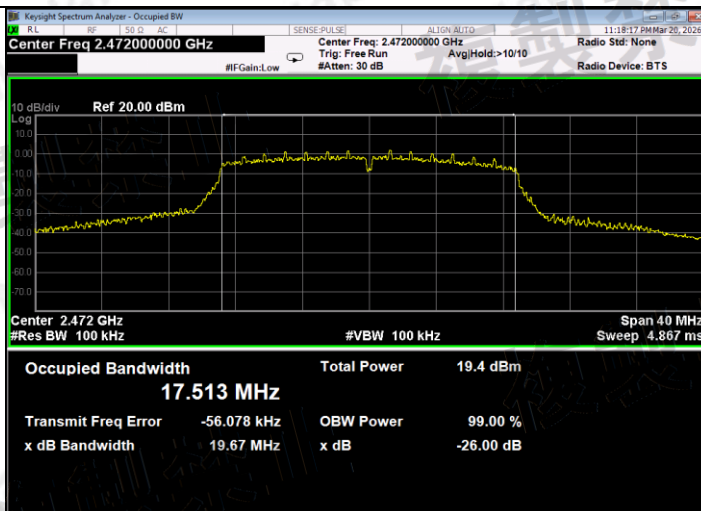
2412MHz



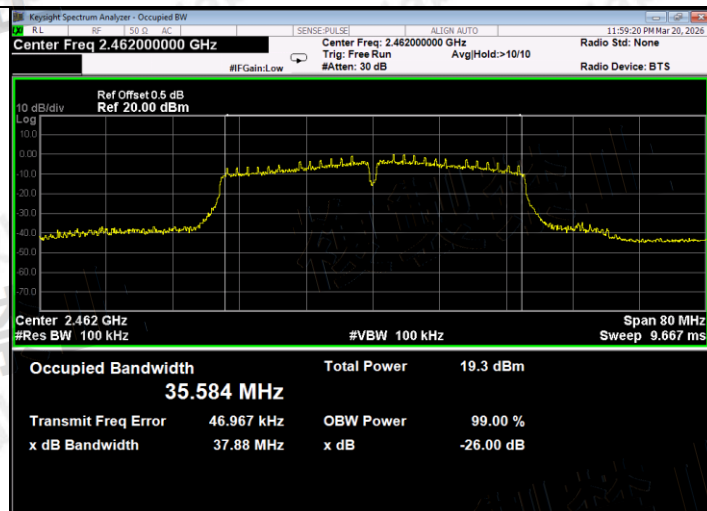
2422MHz



2442MHz



2442MHz



2472MHz

2462MHz

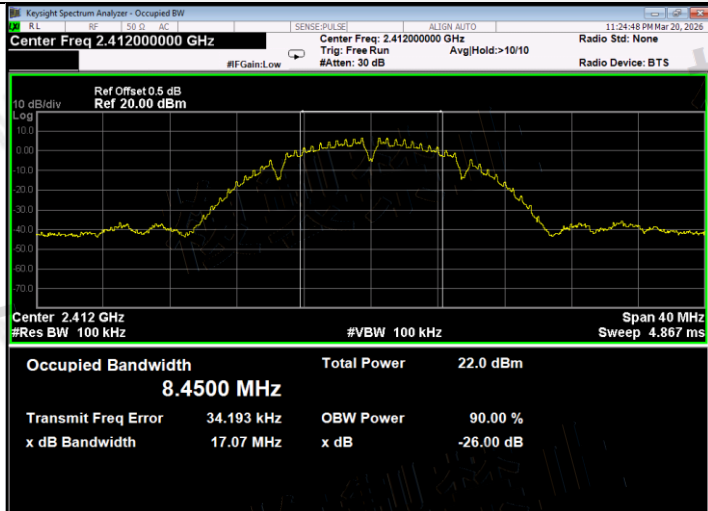
Spread spectrum Bandwidth (90%)

Test Condition	Test Mode	Test Channel	Test Result[MHz]	Limit [MHz]	Verdict
TNVN	802.11b	2412	8.450	0.5	PASS
TNVN	802.11b	2442	8.608	0.5	PASS
TNVN	802.11b	2472	8.391	0.5	PASS
TNVN	802.11g	2412	15.131	0.5	PASS
TNVN	802.11g	2442	15.290	0.5	PASS
TNVN	802.11g	2472	14.656	0.5	PASS
TNVN	802.11n20	2412	15.182	0.5	PASS
TNVN	802.11n20	2442	15.302	0.5	PASS
TNVN	802.11n20	2472	14.537	0.5	PASS
TNVN	802.11n40	2422	29.452	0.5	PASS
TNVN	802.11n40	2442	32.047	0.5	PASS
TNVN	802.11n40	2462	28.828	0.5	PASS

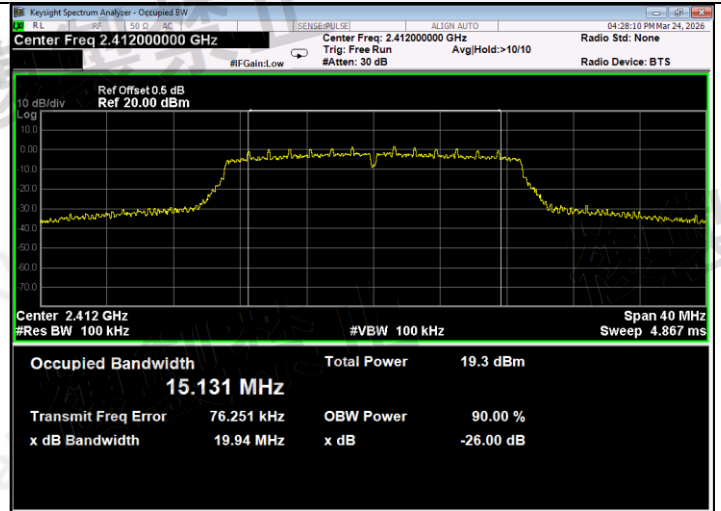
Test Mode	Test Frequency (MHz)	Spread Bandwidth (MHz)	Spreading Factor	Limit	Result
802.11b	2412	8.450	6.145	≥5	PASS
802.11b	2442	8.608	6.260		
802.11b	2472	8.391	6.103		
802.11g	2412	15.131	10.087		
802.11g	2442	15.290	10.193		
802.11g	2472	14.656	9.771		
802.11n20	2412	15.182	10.121		
802.11n20	2442	15.302	10.201		
802.11n20	2472	14.537	9.691		
802.11n40	2422	29.452	19.635		
802.11n40	2437	32.047	21.365		
802.11n40	2462	28.828	19.219		

NOTE: Spreading Factor= Spread Bandwidth/1.375(b mode); 1.5(g/n mode)

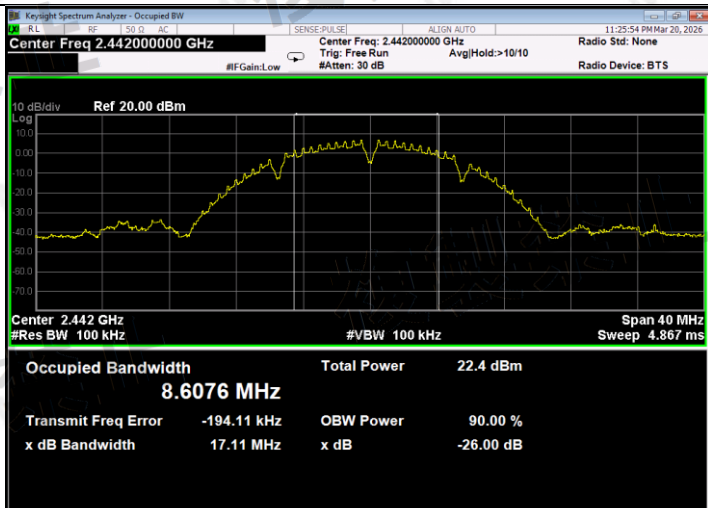
802.11b 90% BANDWIDTH DATA



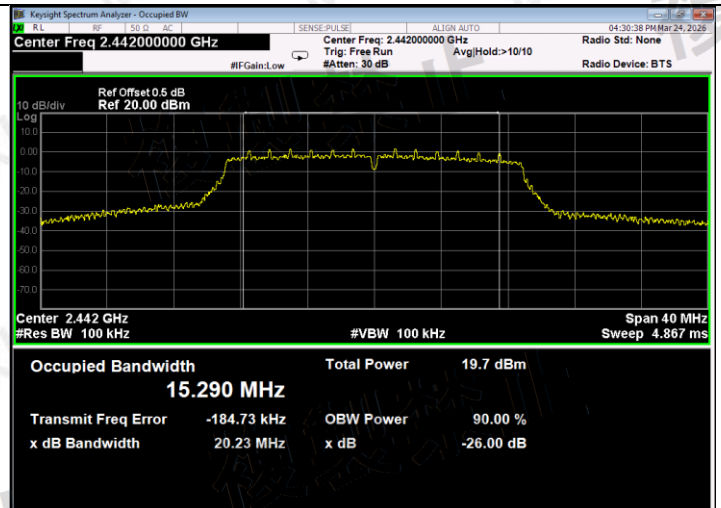
802.11g 90% BANDWIDTH DATA



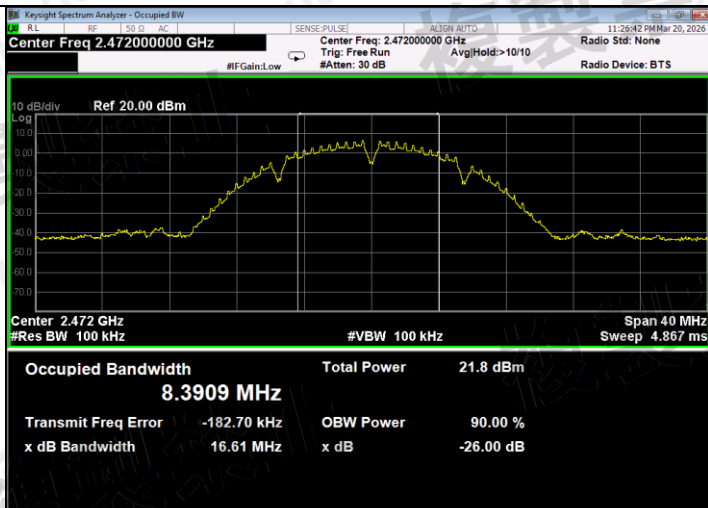
2412MHz



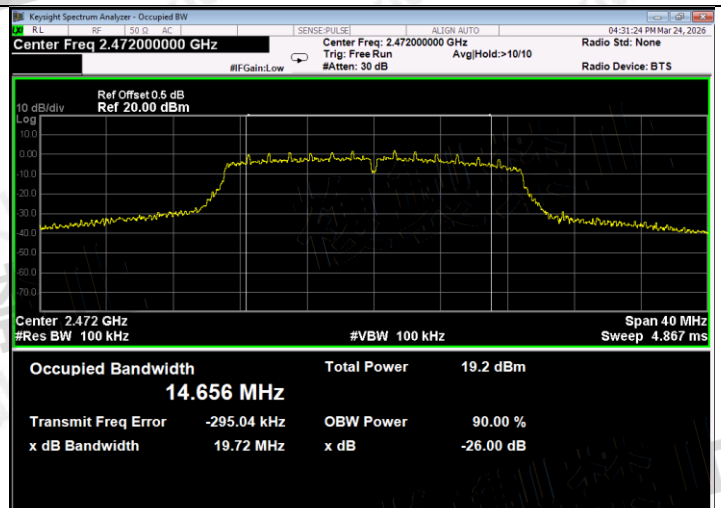
2412MHz



2442MHz



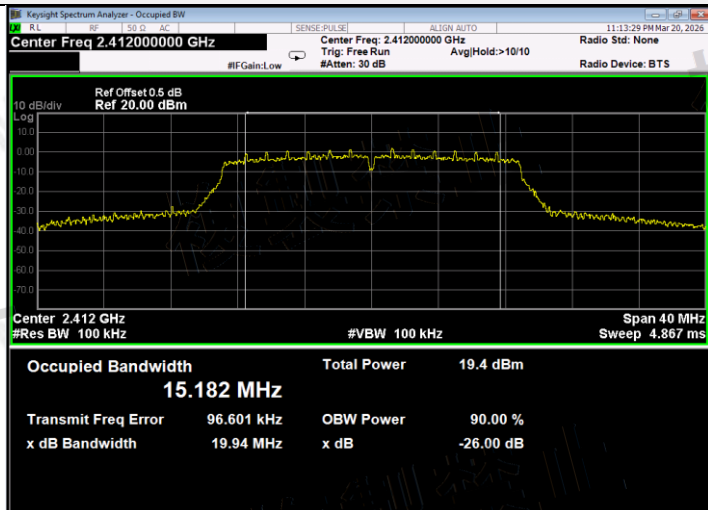
2442MHz



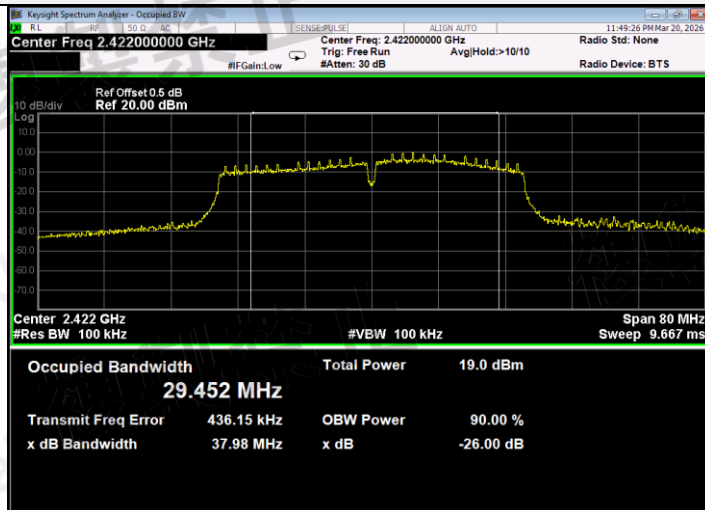
2472MHz

2472MHz

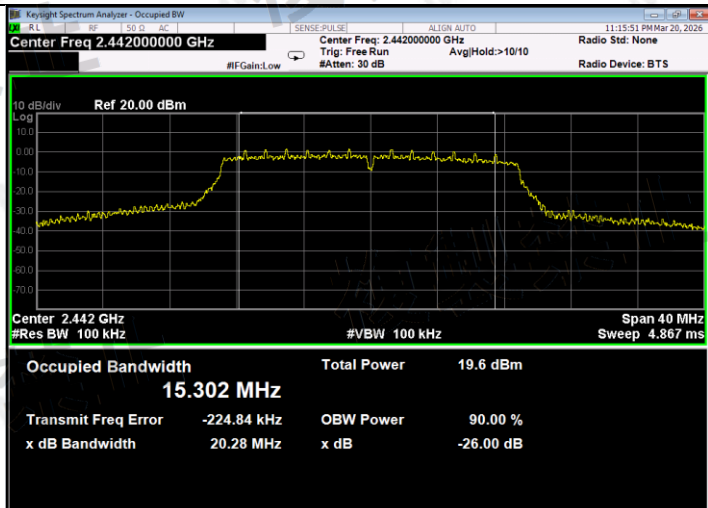
802.11n20 90% BANDWIDTH DATA



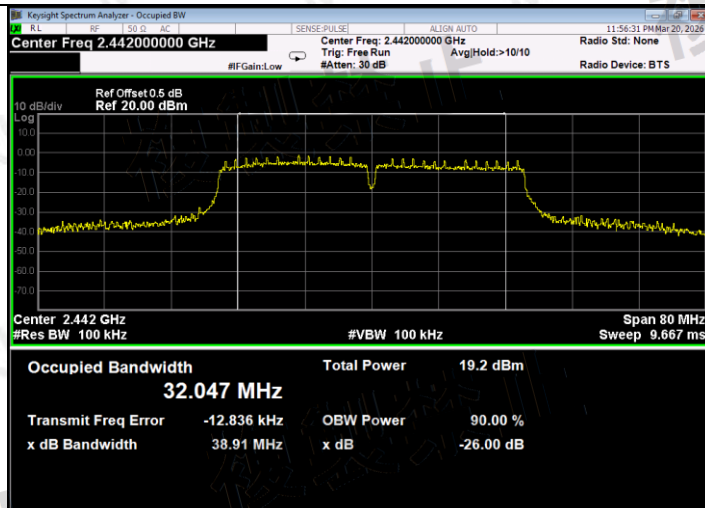
802.11n40 90% BANDWIDTH DATA



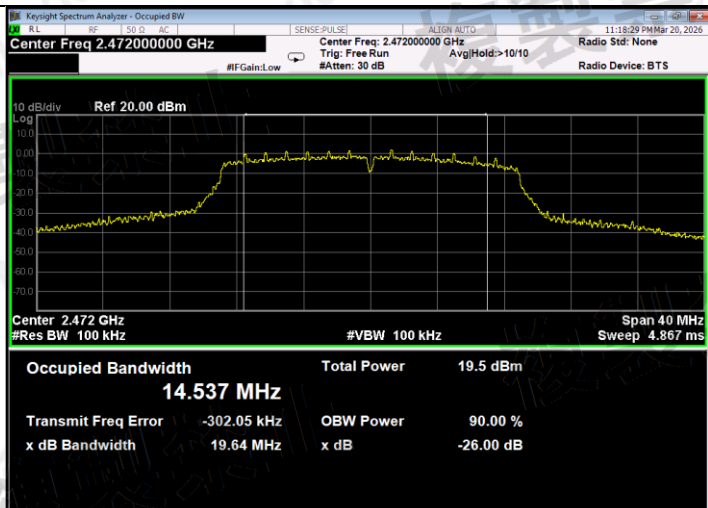
2412MHz



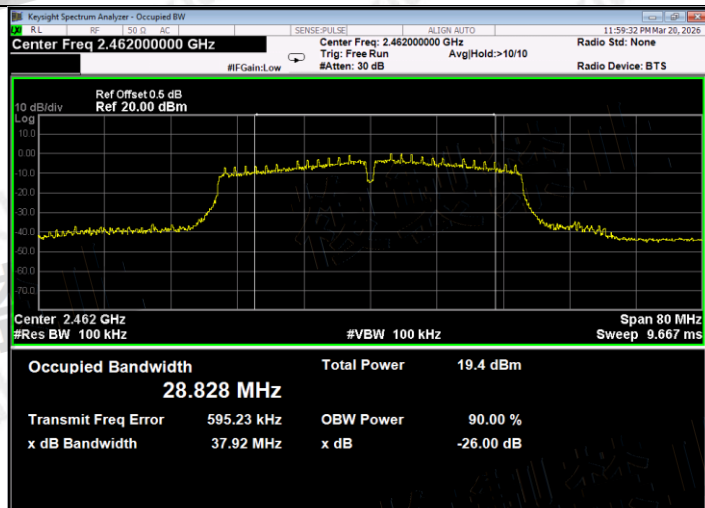
2422MHz



2442MHz



2462MHz



2472MHz

2462MHz

4.5 UNWANTED EMISSION INTENSITY MEASUREMENT

4.5.1 LIMIT

Item	Limits
TX Spurious Emission	$\leq 2.5 \mu\text{W}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($1000\text{MHz} < f \leq 2387\text{MHz}$)
	$\leq 25 \mu\text{W}$ ($2387\text{MHz} < f \leq 2400\text{MHz}$)
	$\leq 25 \mu\text{W}$ ($2483.5\text{MHz} \leq f < 2496.5\text{MHz}$)
	$\leq 2.5 \mu\text{W}$ ($2496.5\text{MHz} \leq f < 12500\text{MHz}$)

4.5.2 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

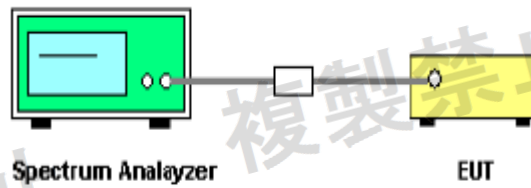
4.5.3 TEST PROCEDURES

- EUT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB:100KHz / VB:100KHz
Above 1GHz RB:1MHz / VB:1MHz / AT: 10dB Ref: 0dBm / Sweep time: Auto
Sweep Mode: Continuous sweep / Detect mode: Positive peak
Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
- Measure side band spurious as follows: For 2.4GHz band: 2374MHz~2400MHz and 2483.5MHz~2509.5MHz RBW = VBW = 30kHz, Result_Value = Measured_Value + 15.2 [dBm]
- If the Result_Value is over the requirement, take total sum of 1MHz band centered at the spur frequency like ACLP measurement as Result_Value.

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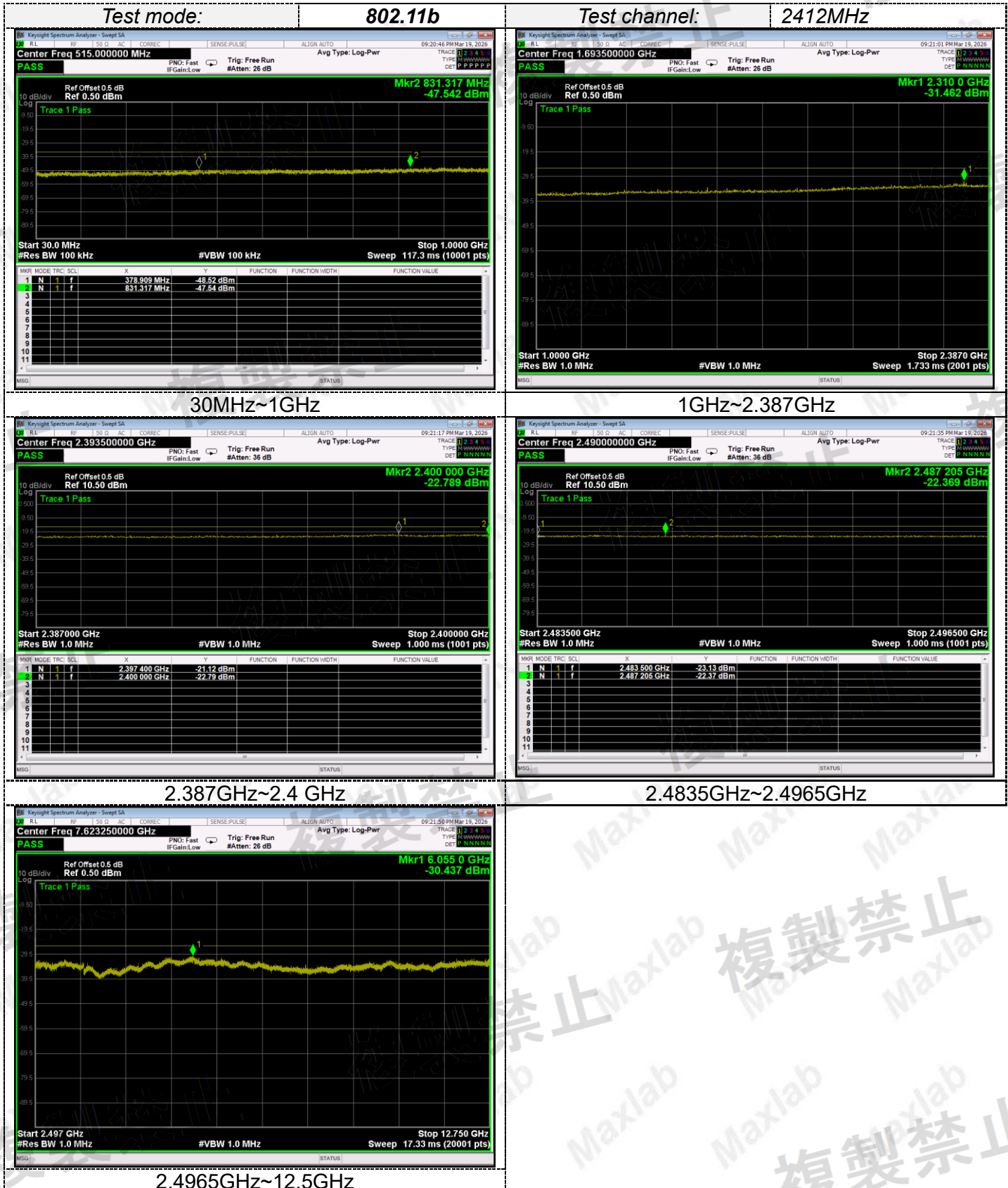
4.5.4 TEST SETUP LAYOUT

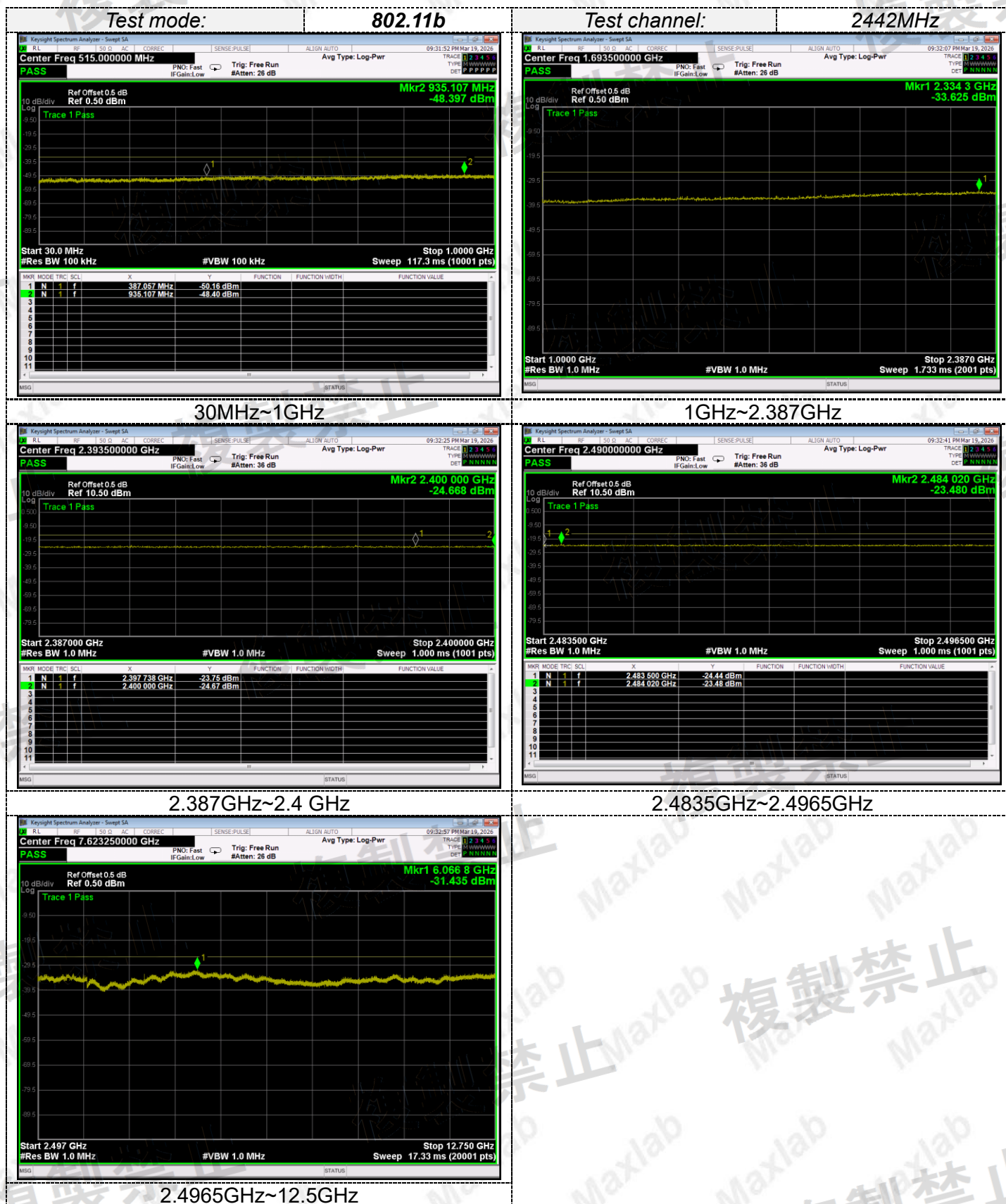


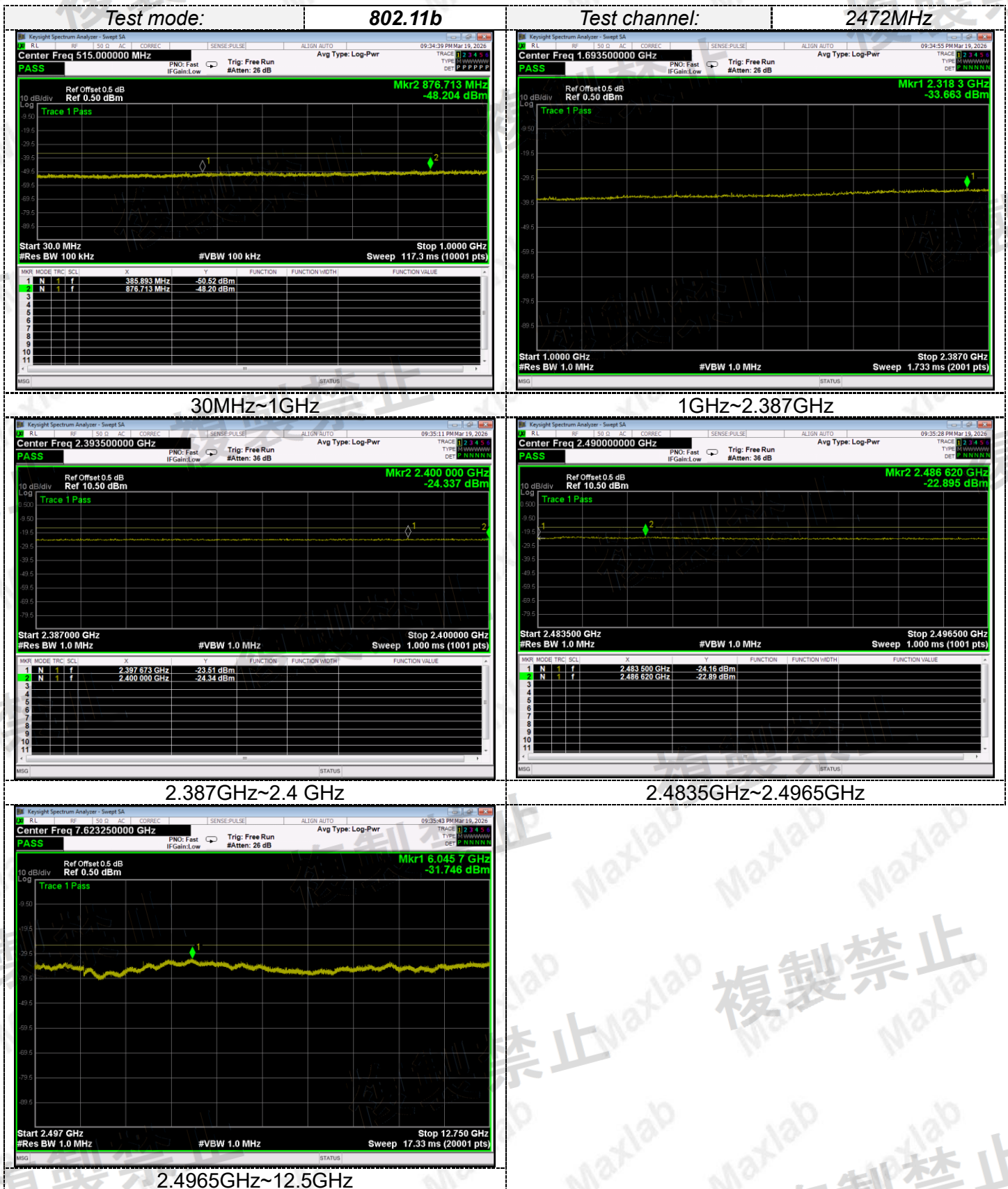
4.5.5 TEST DEVIATION

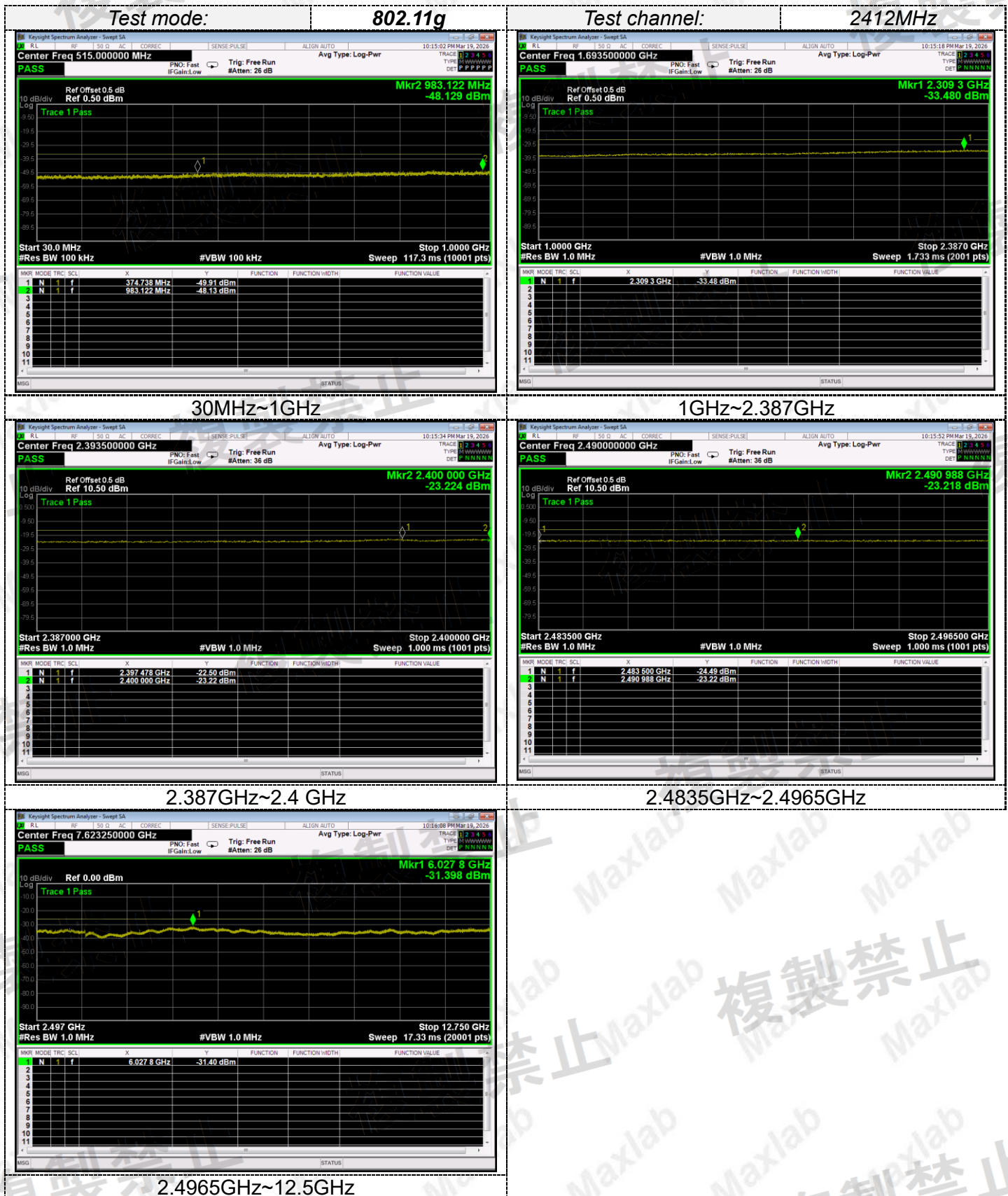
There is no deviation with the original standard.

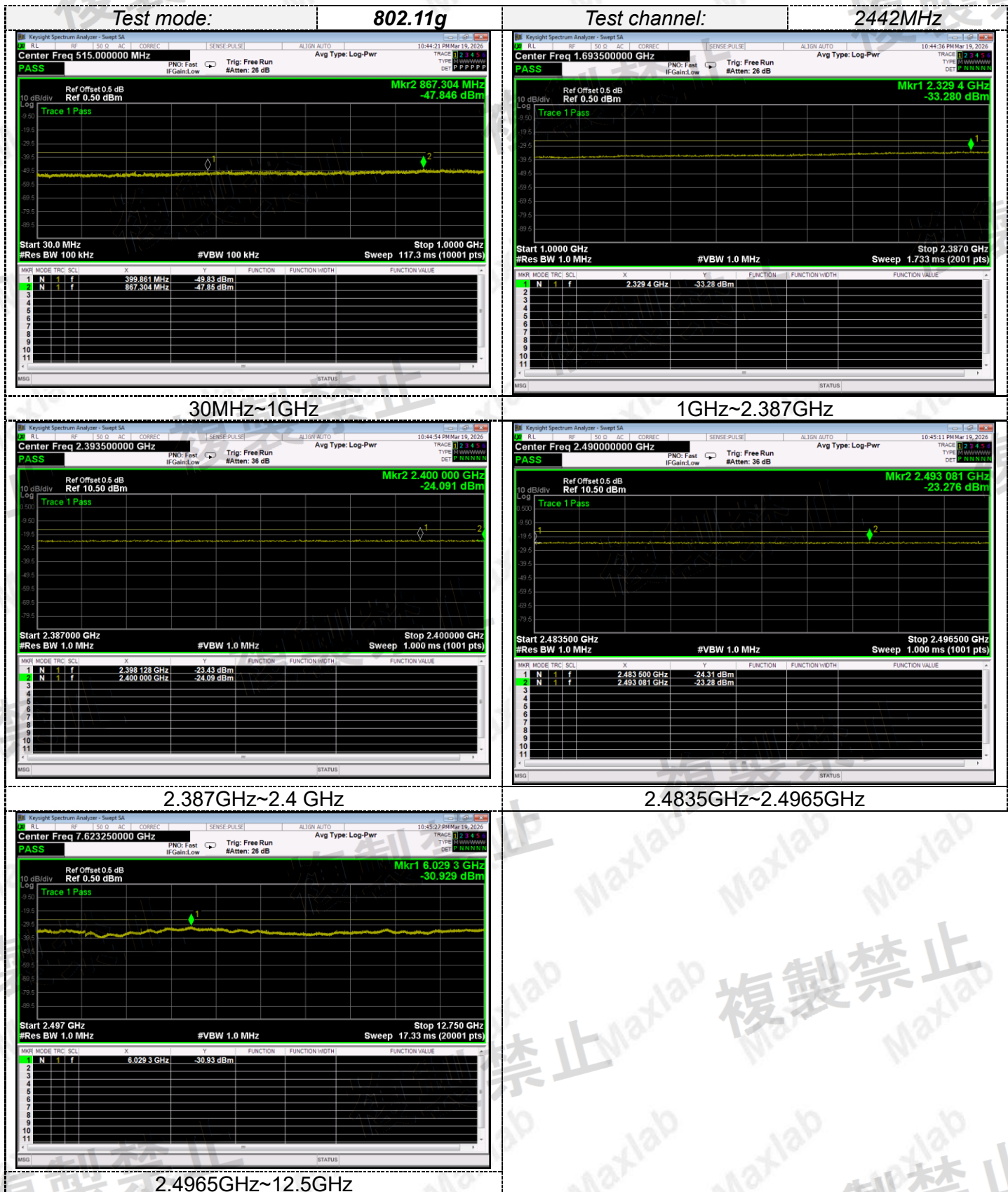
4.5.6 TEST RESULT

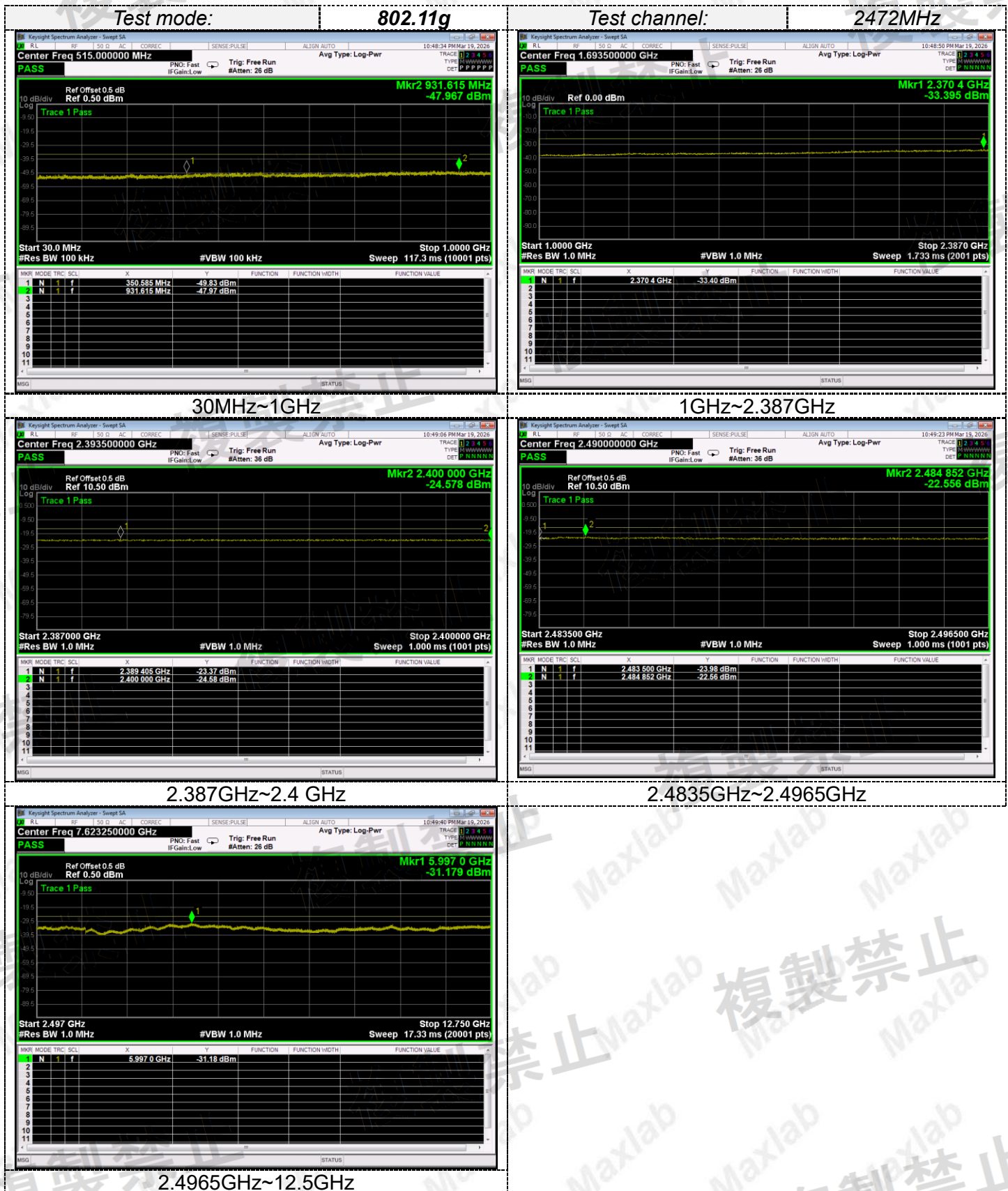


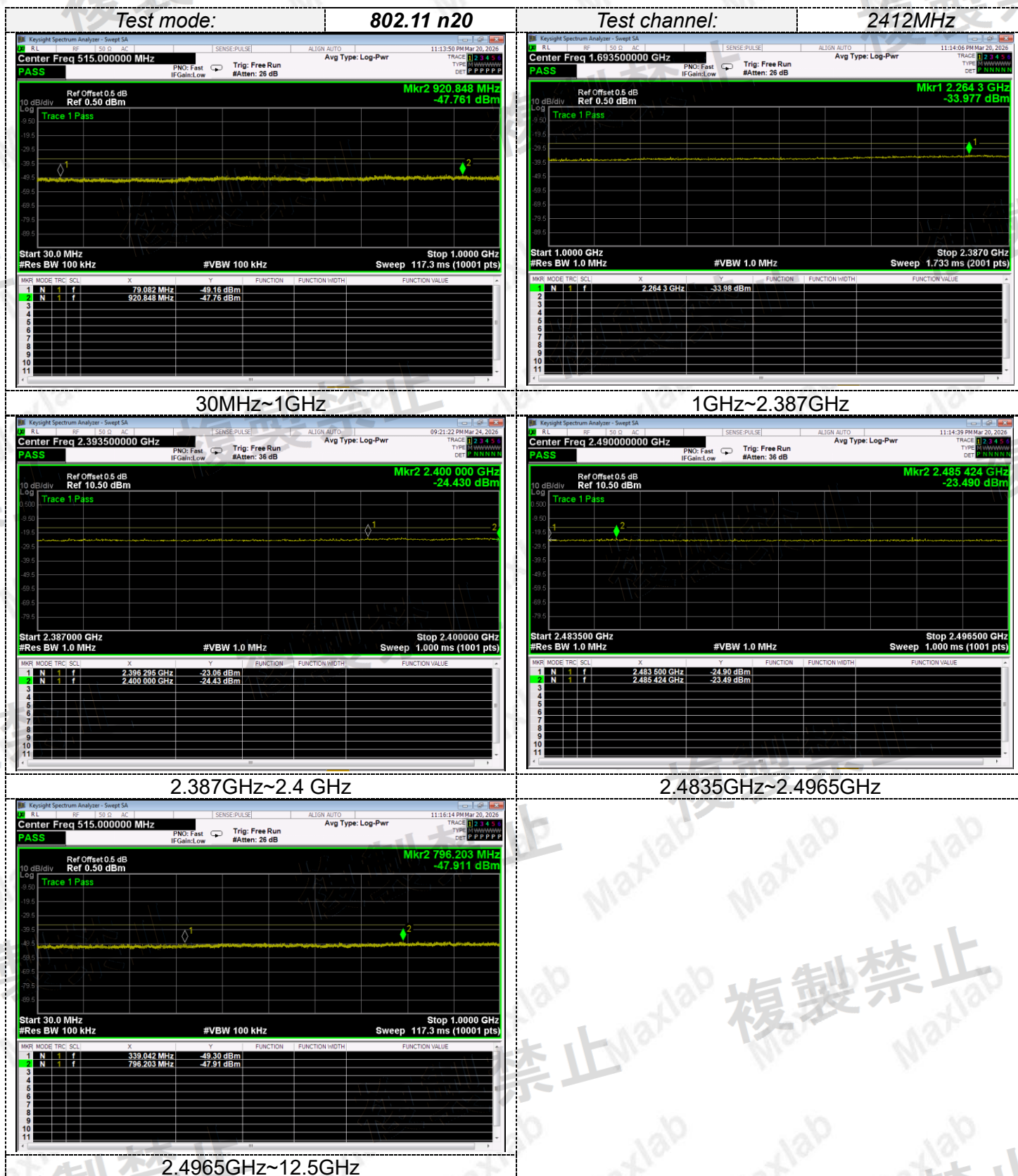






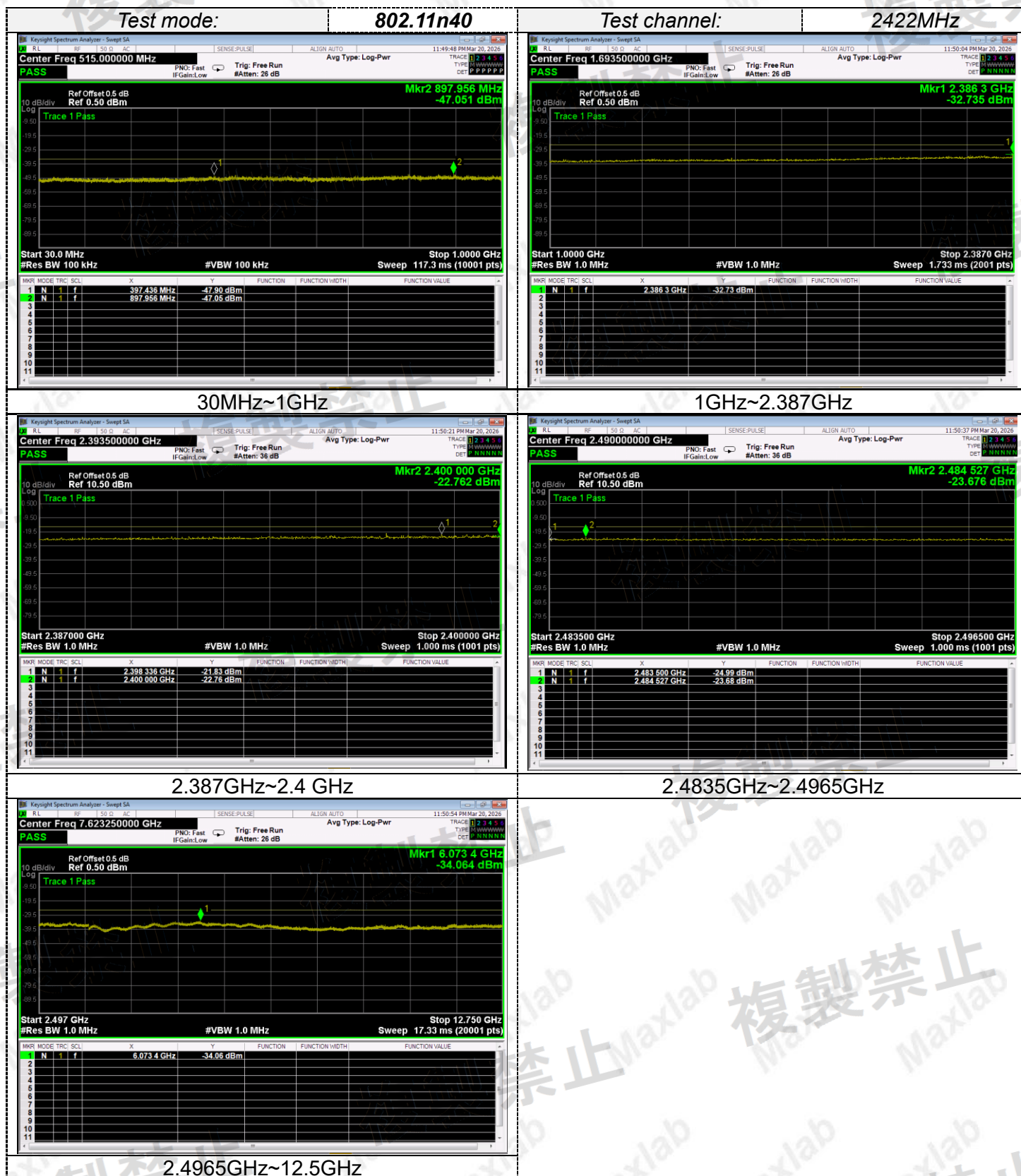












2.4965GHz~12.5GHz





4.6 IMITATION OF COLLATERAL EMISSION OF RECEIVER MEASUREMENT

4.6.1 LIMIT

Item	Limits
RX Spurious Emission:	$\leq 4\text{nW}$ ($f < 1\text{GHz}$)
	$\leq 20\text{nW}$ ($1\text{GHz} \leq f$)

4.6.2 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	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
VB	100 kHz (below 1GHz emissions) 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

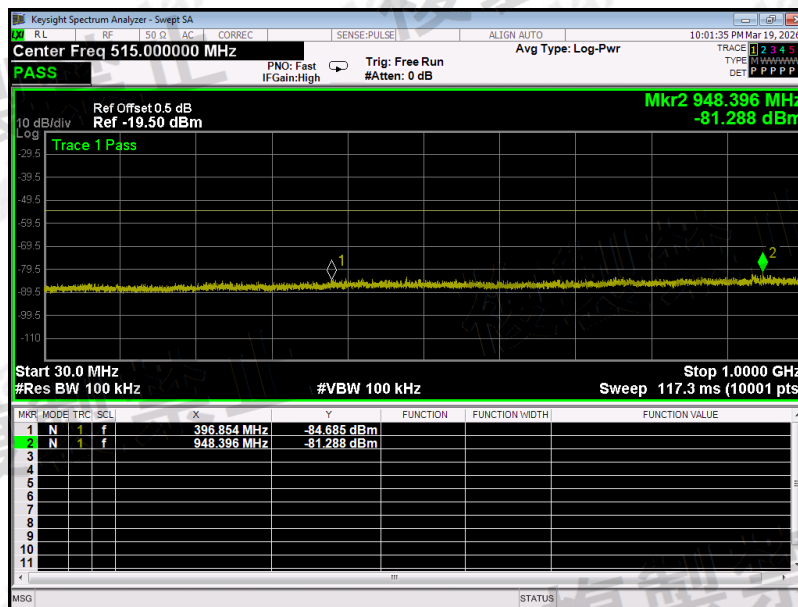
4.6.3 TEST PROCEDURES

- EUT have the continuous reception mode and fixed only one channelize.
- Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) /
AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- SA set RB: 100kHz and VB: 100kHz. Then adjust to start frequency 30MHz and stop frequency 1000MHz. Search to mark peak reading value + cable loss shall be less than 4nW
- SA set RB: 1MHz and VB: 1MHz. Then adjust to start frequency 1000MHz and stop frequency 12500MHz. Search to mark peak reading value + cable loss shall be less than 20nW
- If power level of lower emissions are more than 1/10 of limit (.0.4nW for $f < 1\text{GHz}$, 2nW for $f \geq 1\text{GHz}$), all those are to be indicated in the 2nd and 3rd lines. If others are 1/10 or less more of the limit, no necessary to be indicated.

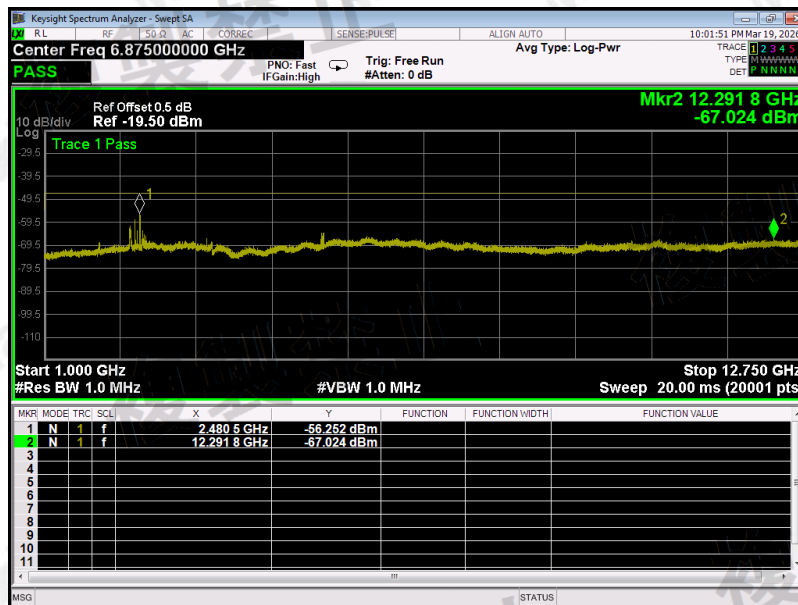
4.6.4 TEST RESULT

Test mode: 802.11b (RX)

30MHz to 1 GHz:



1 GHz to 13 GHz:

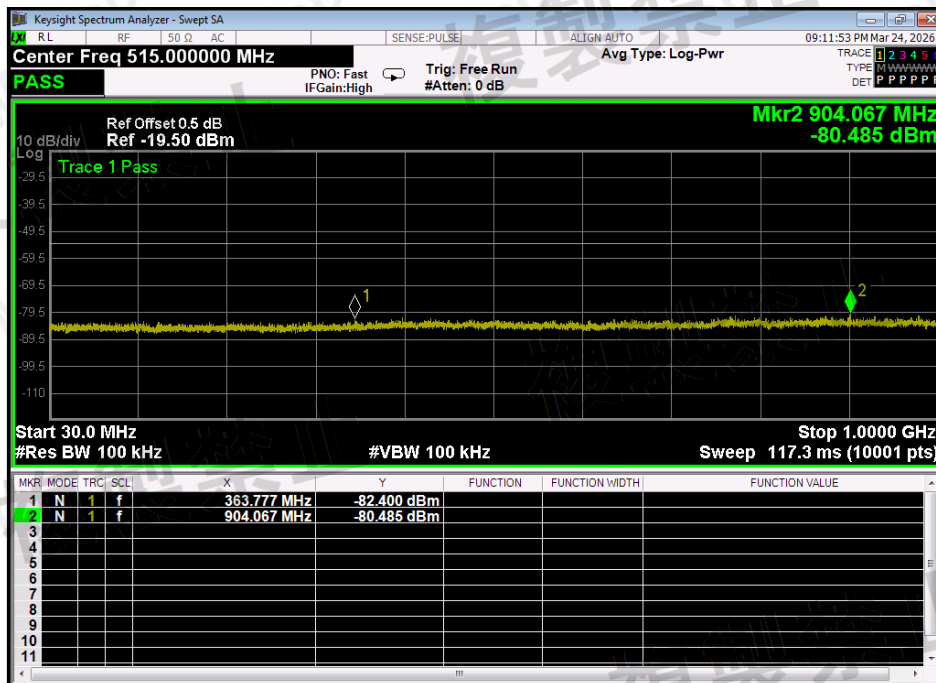


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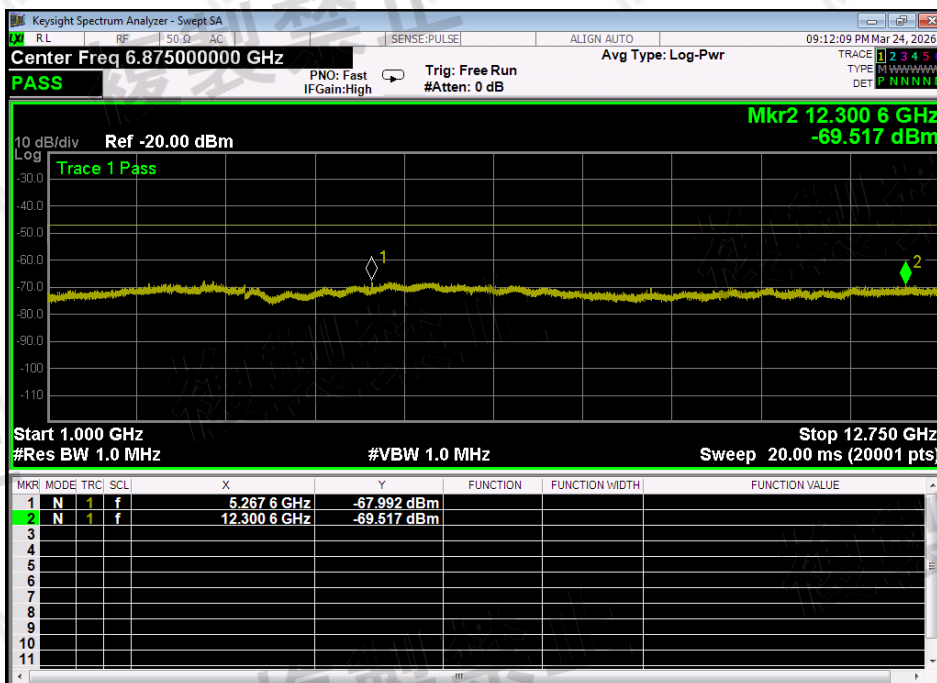
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Test mode: 802.11g (RX)

30MHz to 1 GHz:



1 GHz to 13 GHz:

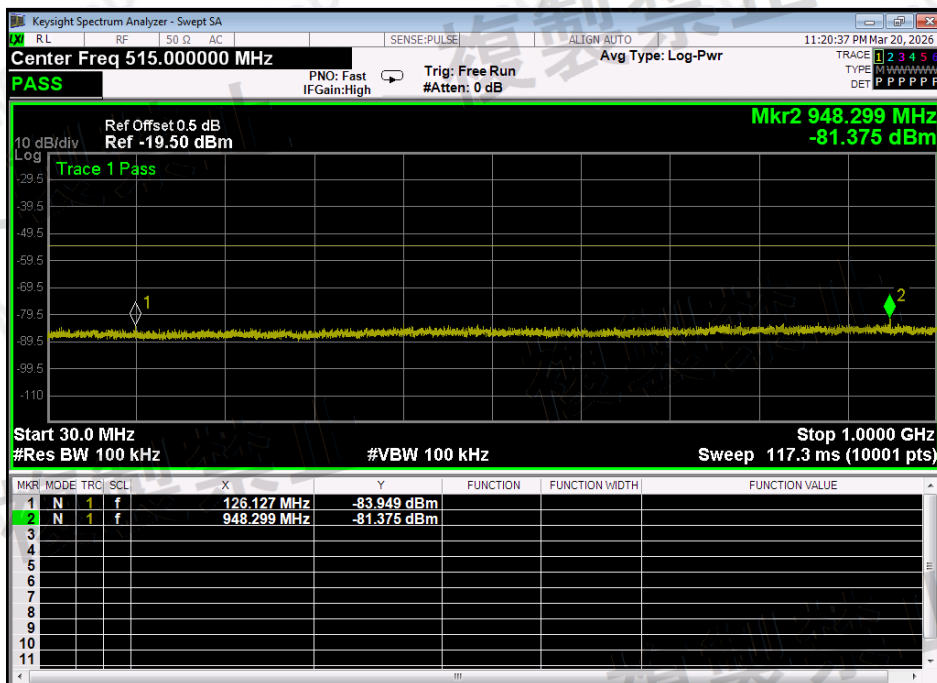


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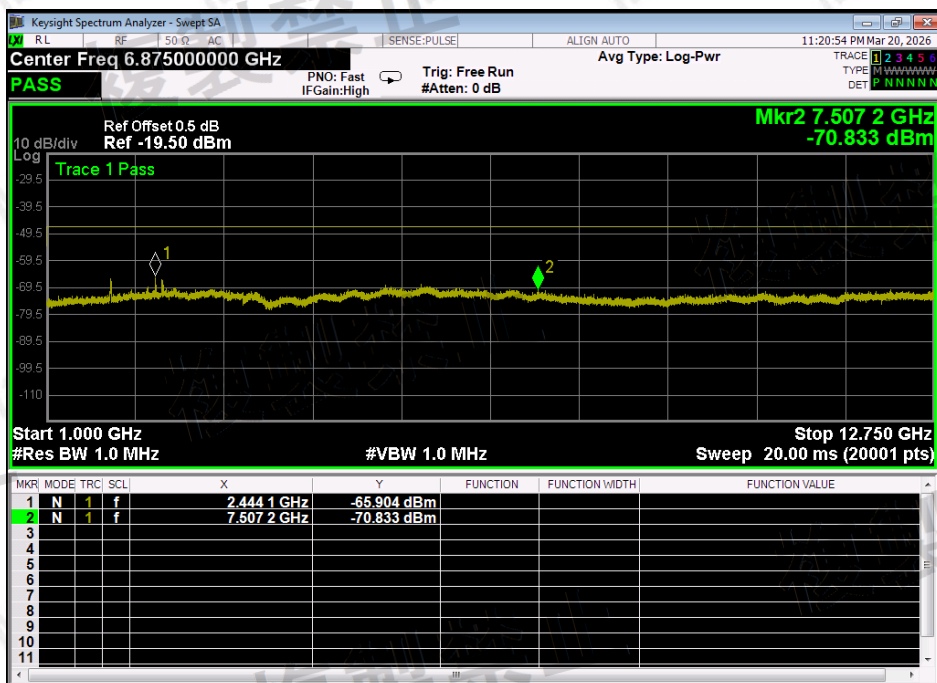
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Test mode: 802.11n20 (RX)

30MHz to 1 GHz:



1 GHz to 13 GHz:

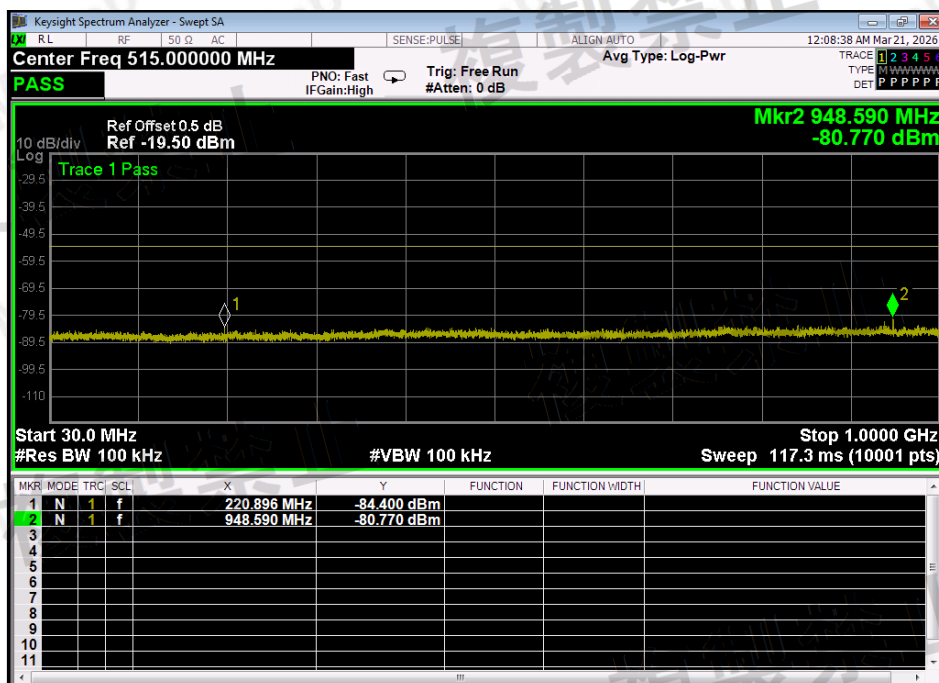


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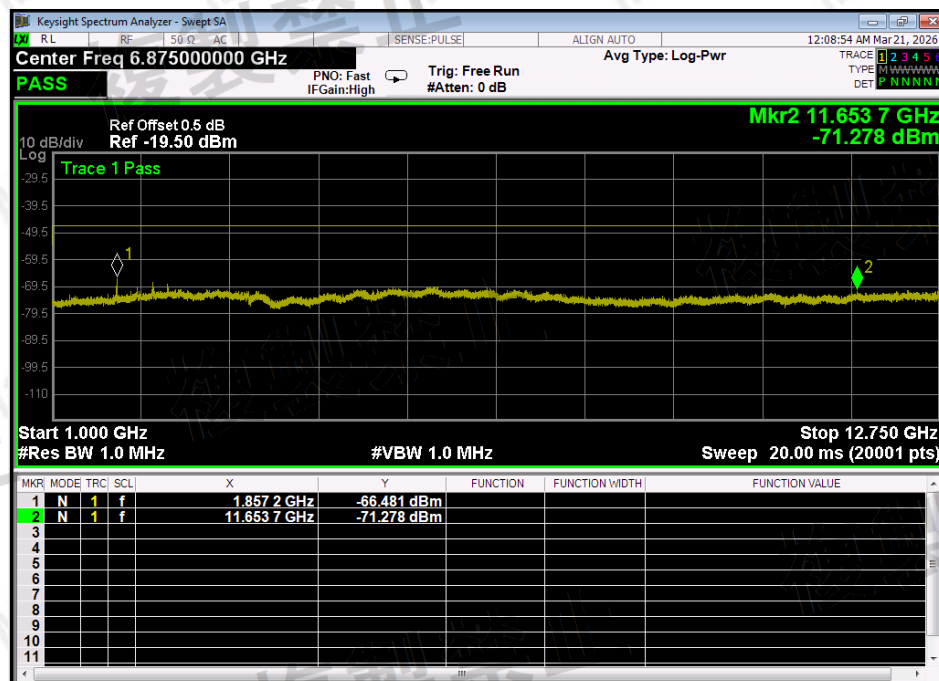
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Test mode: 802.11n40 (RX)

30MHz to 1 GHz:



1 GHz to 13 GHz:



4.7 TRANSMISSION ANTENNA GAIN (EIRP ANTENNA POWER) MEASUREMENT

4.7.1 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	

4.7.2 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

4.7.3 TEST PROCEDURES

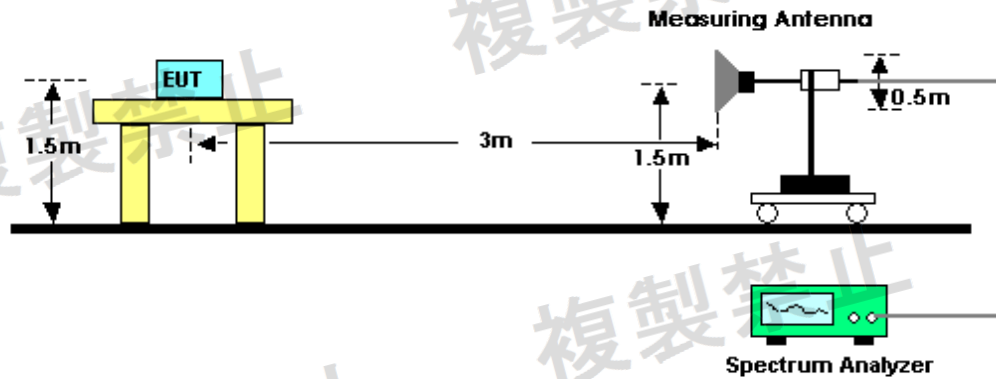
1. Set EUT ad measuring antenna at the same height and roughly facing each other.
2. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read sa "E".
3. Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal
4. Swing the replacing antenna give a maximum receiving level.
5. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
6. Set SSG output power at Pt to give the equivalent output level of "E" or caluate Pt with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the Pt.
7. Calculate EIRP by the formula below $\text{EIRP} = \text{Gt} - \text{L} + \text{Pt}$.
 Gt: gain of replacing antenna (dBi)
 L: feeder loss between SSG and replacing antenna
 Pt: Output power of the SSG
8. If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

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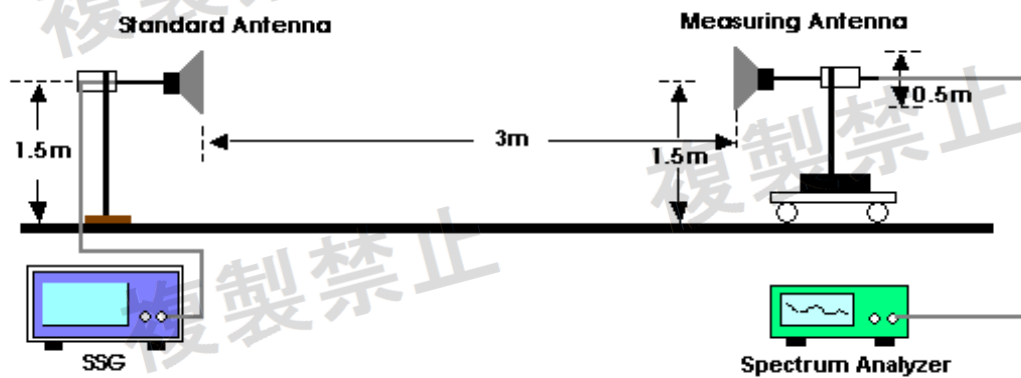
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4.7.4 TEST SETUP LAYOUT

For EUT radiation measurement



For standard antenna measurement



4.7.5 TEST DEVIATION

There is no deviation with the original standard.

4.7.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

4.7.7 RESULTS OF TRANSMISSION ANTENNA GAIN

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

4.8 TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH) MEASUREMENT

4.8.1 LIMIT

Item	Limits
3dB antenna beam width	$360/A$ (If $A < 1$; then $A = 1$) $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$
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	

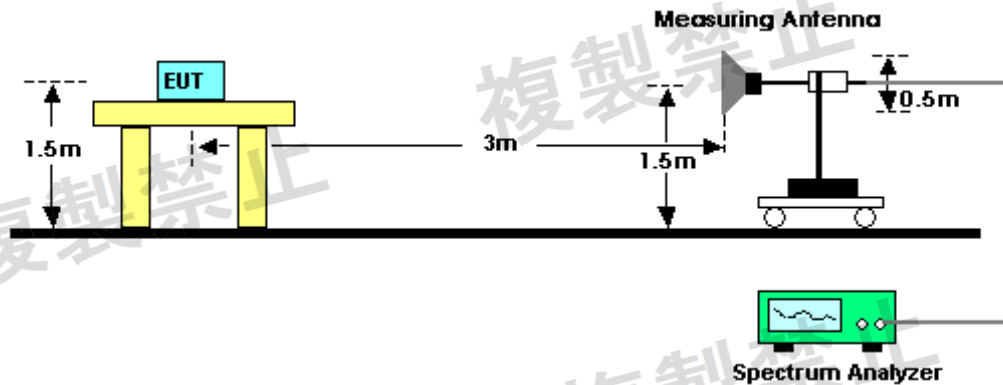
4.8.2 MEASURING INSTRUMENTS AND SETTING

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

4.8.3 TEST PROCEDURES

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition in section 4.7.2 and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E"
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or
 $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$

4.8.4 TEST SETUP LAYOUT



4.8.5 TEST DEVIATION

There is no deviation with the original standard.

4.8.6 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting mode.

4.8.7 TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

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

4.9 RADIO INTERFERENCE PREVENTION CAPABILITY MEASUREMENT

4.9.1 LIMIT

Item	Limits
Identification code	≥ 48 bits

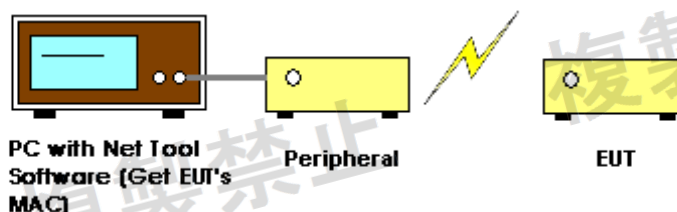
4.9.2 MEASURING ID CODE SOFTWARE

Item	Limits
MAC IP List	MAC Scan

4.9.3 TEST PROCEDURES

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

4.9.4 TEST SETUP LAYOUT



4.9.5 TEST DEVIATION

There is no deviation with the original standard.

4.9.6 EUT OPERATION DURING TEST

The EUT was programmed to be in normal transmitting mode.

4.9.7 TEST RESULT OF RADIO INTERFERENCE PREVENTION CAPABILITY

EUT:	Holographic screen fan	Test Date:	2026-3-24
Temperature:	25°C	Tested by:	Haley Wen
Humidity:	55 % RH		
Test result:	CONFORM		

Mac address: be:ea:98:7d:7c:1b

4.10 CARRIER SENSING FUNCTION

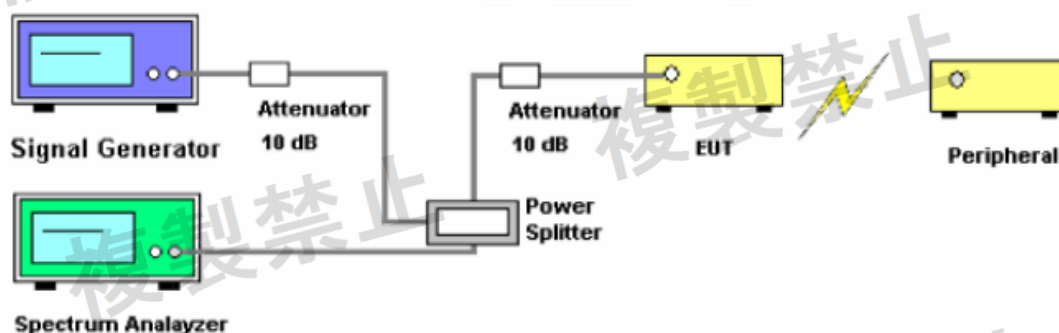
4.10.1 TEST REQUIREMENT

MIC Notice No.88 Appendix No.43

Article 2, Paragraph 1, Item 19 Rules Section 10

4.10.2 BLOCK DIAGRAM OF TEST SETUP

❖ Measurement System Diagram



❖ Conditions of Application Equipment (EUT)

- The EUT state shall be “normal mode link with wireless router”.

4.10.3 TEST PRECEDURE

1. SG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SG and power level is $(on\ 22.79 + G - 20 \cdot \log(f) \text{ dBm})$ (G is the antenna gain, f is the test frequency).
2. turn off the RF signal of the SG.
3. EUT have transmitted the maximum modulation signal and fixed channelize.
4. Setting of SA :RBW/VBW=1MHz/1MHz,Span=50MHz,Sweep time=auto,Sweep mode=continuous, Detect mode=positive peak
5. SG RF signal on.
6. EUT shall be stop the transmitted any signal and SG RF signal off, the EUT will be continuous



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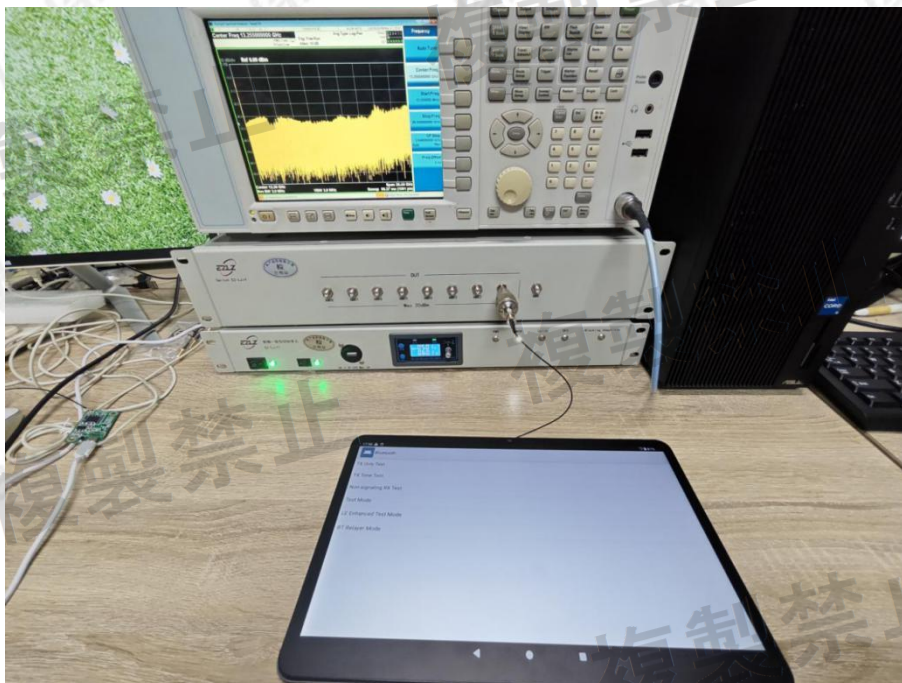
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4.10.4 TEST RESULT

EUT:	Holographic screen fan	Test Date:	2026-3-25
Temperature:	25°C	Tested by:	Haley Wen
Humidity:	55 % RH		
Test result:	CONFORM for IEE 802.11 N/HT40		
Note: The device cannot transmit radio when the field strength at maximal gain direction of receiving antenna power is over 100mV/m; and The device can start to transmit after carrier sensing.			

5. TEST SETUP PHOTOS OF THE EUT

Measurement Photos





6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the report ANNEX A of external photos and ANNEX B of internal photos.

*****End of the report*****