

Blueair AB

JAPAN TEST REPORT

SCOPE OF WORK:
JAPAN RADIO REPORT

Model:
4442411000

REPORT NUMBER
2512B1098SHA-001

ISSUE DATE:
March 20, 2026

DOCUMENT CONTROL NUMBER
TTRFMIC-01_V1
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Applicant: Blueair AB
Karlavägen 104,115 26 Stockholm, Sweden

Manufacturer: Blueair AB
Karlavägen 104,115 26 Stockholm, Sweden

Manufacturer Site: Guangdong Xinbao Electrical Appliances Holdings Co., Ltd.
Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong
Province, P.R.China

Summary

The equipment complies with the requirements according to the following standard(s) or Specification:

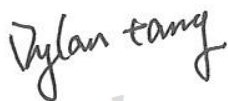
The equipment complies with the requirements according to the following standard(s):

Article 2-1- 8, Article 49-14-11 of the Radio Equipment Regulations, and the relevant provisions of the Ordinance on Radio Equipment

The measurement was implemented in according with the following procedure(s):

MIC Notice No.88 Appendix No.22-16

PREPARED BY:



Project Engineer
Dylan Tang

REVIEWED BY:



Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
2512B1098SHA-001	Rev. 01	Initial issue of report	March 20, 2026

Measurement result summary

TEST ITEM	TEST RESULT	NOTE
Assigned Frequency Tolerance of Frequency	Pass	-
Antenna Power and Tolerance	Pass	-
Occupied bandwidth	Pass	-
Vibration	Pass	-
Unwanted Emission Strength	Pass	-
Out Of Band Radiated Emission	Pass	-
Secondary Radiated Emission Strength	NA	-
RF accessibility	Pass	-

Notes: 1: NA =Not Applicable

2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

4: The "N/A" in Secondary Radiated Emission Strength is because the EUT does not have a receive-only mode

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name	: Blue Signature™SP3i
Type/Model	: 4442411000
Description of EUT	: The EUT is a Blue Signature™SP3i which supports 24G Radar, available in two color options (dark blue or Light grey), and it has only one model.
Rating	: AC 100 -240V 50-60Hz
Hardware version	: /
Software version	: /
Sample received date	: December 25, 2025
Date of test	: January 8, 2026~ March 19, 2026

1.2 RF Technical Information

Assigned Frequency Band	: 24.05GHz to 24.25GHz
Operating Frequency	: 24.07GHz to 24.23GHz
Type of Modulation	: CW
Number of Channels	: 161
Channel Separation	: 1MHz
Antenna Type	: PCB antenna
Antenna Gain	: 2.3744dBi
Declaration Antenna Power	: 0.5mW

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1.3 Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	24070 MHz	42	24111 MHz	83	24152 MHz	124	24193 MHz
2	24071 MHz	43	24112 MHz	84	24153 MHz	125	24194 MHz
3	24072 MHz	44	24113 MHz	85	24154 MHz	126	24195 MHz
4	24073 MHz	45	24114 MHz	86	24155 MHz	127	24196 MHz
5	24074 MHz	46	24115 MHz	87	24156 MHz	128	24197 MHz
6	24075 MHz	47	24116 MHz	88	24157 MHz	129	24198 MHz
7	24076 MHz	48	24117 MHz	89	24158 MHz	130	24199 MHz
8	24077 MHz	49	24118 MHz	90	24159 MHz	131	24200 MHz
9	24078 MHz	50	24119 MHz	91	24160 MHz	132	24201 MHz
10	24079 MHz	51	24120 MHz	92	24161 MHz	133	24202 MHz
11	24080 MHz	52	24121 MHz	93	24162 MHz	134	24203 MHz
12	24081 MHz	53	24122 MHz	94	24163 MHz	135	24204 MHz
13	24082 MHz	54	24123 MHz	95	24164 MHz	136	24205 MHz
14	24083 MHz	55	24124 MHz	96	24165 MHz	137	24206 MHz
15	24084 MHz	56	24125 MHz	97	24166 MHz	138	24207 MHz
16	24085 MHz	57	24126 MHz	98	24167 MHz	139	24208 MHz
17	24086 MHz	58	24127 MHz	99	24168 MHz	140	24209 MHz
18	24087 MHz	59	24128 MHz	100	24169 MHz	141	24210 MHz
19	24088 MHz	60	24129 MHz	101	24170 MHz	142	24211 MHz
20	24089 MHz	61	24130 MHz	102	24171 MHz	143	24212 MHz
21	24090 MHz	62	24131 MHz	103	24172 MHz	144	24213 MHz
22	24091 MHz	63	24132 MHz	104	24173 MHz	145	24214 MHz
23	24092 MHz	64	24133 MHz	105	24174 MHz	146	24215 MHz
24	24093 MHz	65	24134 MHz	106	24175 MHz	147	24216 MHz
25	24094 MHz	66	24135 MHz	107	24176 MHz	148	24217 MHz
26	24095 MHz	67	24136 MHz	108	24177 MHz	149	24218 MHz
27	24096 MHz	68	24137 MHz	109	24178 MHz	150	24219 MHz
28	24097 MHz	69	24138 MHz	110	24179 MHz	151	24220 MHz
29	24098 MHz	70	24139 MHz	111	24180 MHz	152	24221 MHz
30	24099 MHz	71	24140 MHz	112	24181 MHz	153	24222 MHz
31	24100 MHz	72	24141 MHz	113	24182 MHz	154	24223 MHz
32	24101 MHz	73	24142 MHz	114	24183 MHz	155	24224 MHz
33	24102 MHz	74	24143 MHz	115	24184 MHz	156	24225 MHz
34	24103 MHz	75	24144 MHz	116	24185 MHz	157	24226 MHz

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35	24104 MHz	76	24145 MHz	117	24186 MHz	158	24227 MHz
36	24105 MHz	77	24146 MHz	118	24187 MHz	159	24228 MHz
37	24106 MHz	78	24147 MHz	119	24188 MHz	160	24229 MHz
38	24107 MHz	79	24148 MHz	120	24189 MHz	161	24230 MHz
39	24108 MHz	80	24149 MHz	121	24190 MHz	-	-
40	24109 MHz	81	24150 MHz	122	24191 MHz	-	-
41	24110 MHz	82	24151 MHz	123	24192 MHz	-	-

Note: Information in the 1.3 sheet declared by the manufacturer may affect the validity of the results and Intertek has no responsibility for its accuracy.

1.4 Description of Test Facility

Name : Intertek Testing Services (Shanghai FTZ) Co., Ltd.

Address : Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China

Telephone : 86 21 61278200

Telefax : 86 21 54262353

The test facility is : CNAS Accreditation Lab
recognized, certified, Registration No. CNAS L21189
or accredited by these
organizations

FCC Accredited Lab
Designation Number: CN0175

IC Registration Lab
CAB identifier.: CN0014

VCCI Registration Lab
Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)

A2LA Accreditation Lab
Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

The equipment complies with the requirements according to the following standard(s):

Article 2- 1- 8, Article 49-14-11 of the Radio Equipment Regulations, and the relevant provisions of the Ordinance on Radio Equipment

The measurement was implemented in according with the following procedure(s):

MIC Notice No.88 Appendix No.22-16

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the continuously transmission was applied by following software.

Software name	Manufacturer	Version	Supplied by
--	--	--	--

The lowest, middle and highest channel were tested as representatives.

Frequency Band (GHz)	Lowest (L) (GHz)	Middle (M) (GHz)	Highest (H) (GHz)
24.05-24.25	24.07	24.15	24.23

2.3 Test environment condition:

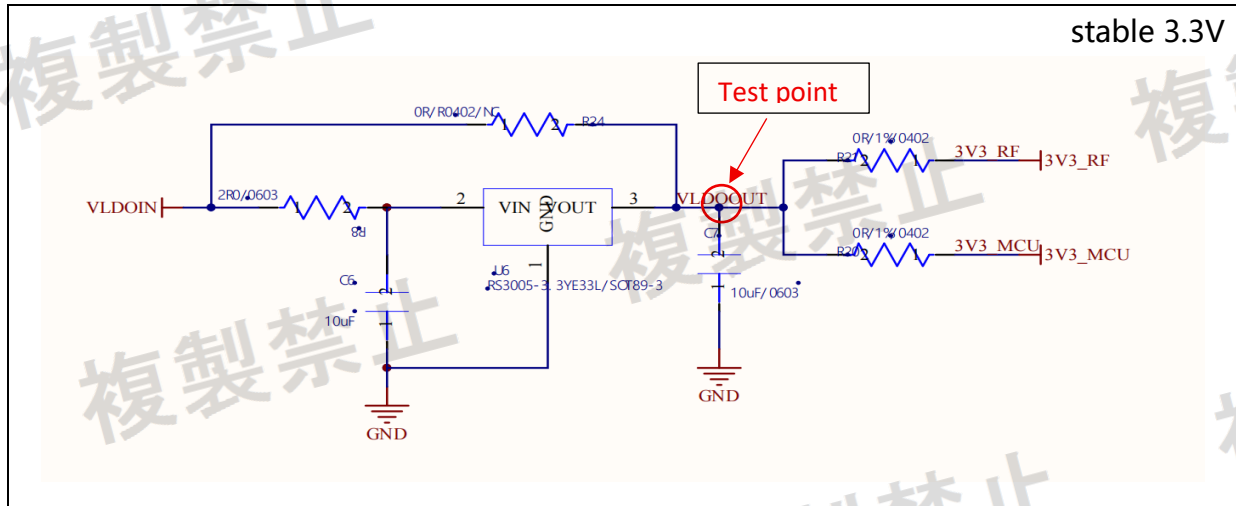
Temperature	Humidity	Atmospheric Pressure
22°C	47 %RH	100.6 kPa

2.4 Power supply condition:

The EUT is supplied with 24 DC. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from 24V DC to the test equipment is fluctuated by $\pm 10\%$, So all measurement was conducted on the rated voltage (24V DC).

The measurement result of the voltage fluctuation at RF circuit when input voltage is fluctuated by $\pm 10\%$:

Power supply	Measured value
21.6V DC	3.3V
24V DC	3.3V
26.4V DC	3.3V



2.5 Test peripherals used

Item No	Description	Band and Model	S/No
-	-	-	-

2.6 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date	Calibration Body	
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2025-05-24	2026-05-25	CEPREI	(c)
☒	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2025-03-24	2026-03-25	CEPREI	(c)
☒	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2025-09-26	2026-09-27	CEPREI	(c)
☒	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2025-12-02	2026-12-03	CEPREI	(c)
☒	Horn antenna	Tonscend	bha9120d	EC 6432-2	2025-04-10	2026-04-10	CEPREI	(c)
☒	Horn antenna	ETS	3116c	EC 5955	2025-08-23	2026-08-24	CEPREI	(c)
☒	WW wave antenna (40-60G)	VDi	HD-500SGAH25	EC 6529-1	2025-03-08	2026-03-09	NIM	(c)
☒	Mixer (40-60G)		M19RH	EC 6529	2025-03-23	2026-03-24	BIRMM	(c)
☒	Shaking table	STI	DC-300-3	EC 4964	2025-03-27	2026-03-28	JSIM	(c)
☐	Climate Test Chamber	ESPEC	SEWTH-Z-120L	EC 5504	2025-09-08	2026-09-09	ITS	(c)
☒	Semi-anechoic chamber	Albatross project	-	EC 3048	2025-07-10	2026-07-11	STIEE	(c)

Note: The calibration interval is one year and the calibrations are traceable to the National Institute of Metrology (NIM)

Remark:

- (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 (1) in JRL.
- (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
- (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).
- (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).

From JRL Article 24-2, paragraph 4, Item 2

2.7 Measurement Uncertainty

Item No.	Test Items	Expanded Uncertainty (k=2) (±)
1	Assigned Frequency	0.88 %
2	Tolerance of Frequency	0.88 %
3	Antenna Power	0.74 dB
4	Occupied Bandwidth	0.88 %
5	Spurious emissions of transmitter	2.89 dB
6	Vibration	0.88 %
7	Temperature	1 °C
8	Humidity	5 %
9	Time	1.15 %

3 Assigned Frequency and Tolerance of Frequency

Test result: Pass

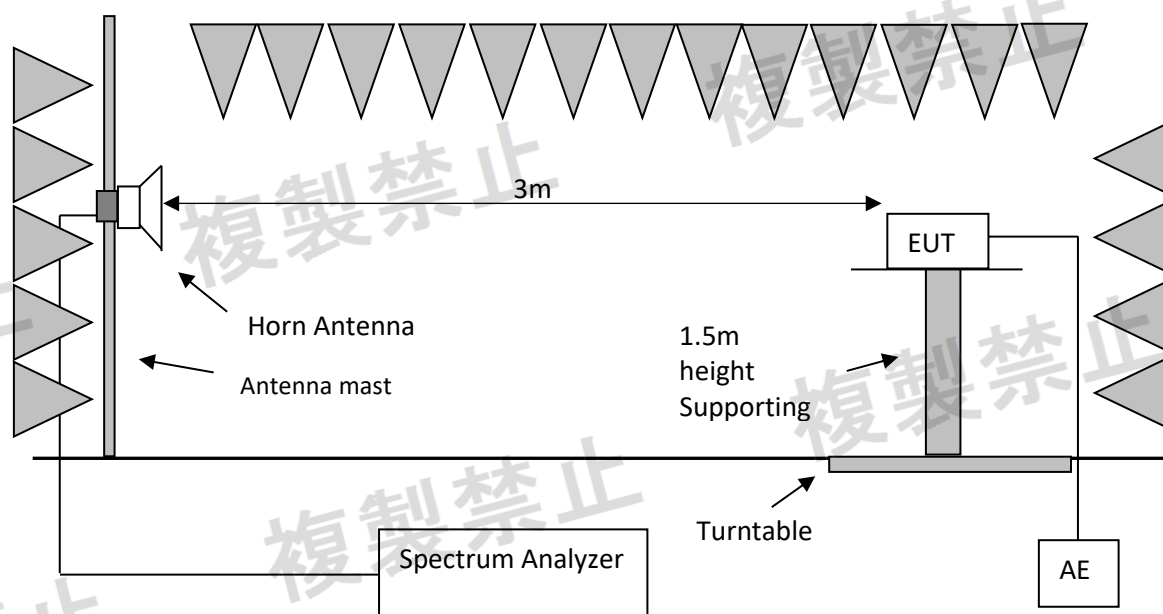
3.1 Limit

Item	Limits
Assigned Frequency and Tolerance of Frequency	24.05 – 24.25GHz

3.2 Measurement Procedure

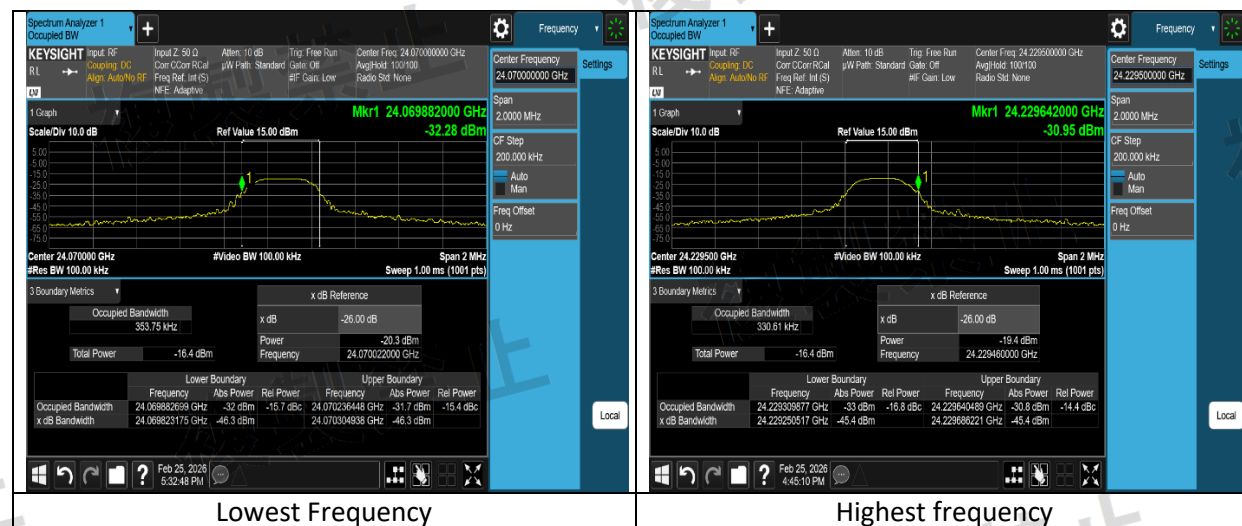
- (1) Test Conditions: Spectrum Analyzer is used for measurement.
- (2) EUT Conditions: CW Tx
- (3) Set the Spectrum Analyzer as: RBW: 100kHz, VBW: 100kHz, Sweep mode: Continuous sweep, Detect mode: Positive peak, Trace mode: Max hold.

3.3 Test Configuration



3.4 Test Results

Test Condition	Channel	Lowest frequency (GHz)	Highest frequency (GHz)	Limit [GHz]	Result
NTNV	L	24.06988	-	>24.05	Pass
NTNV	H	-	24.22964	<24.25	Pass



4 Vibration

Test result: Pass

4.1 Limit

Item	Limits
Vibration	24.05 – 24.25GHz

4.2 Measurement Procedure

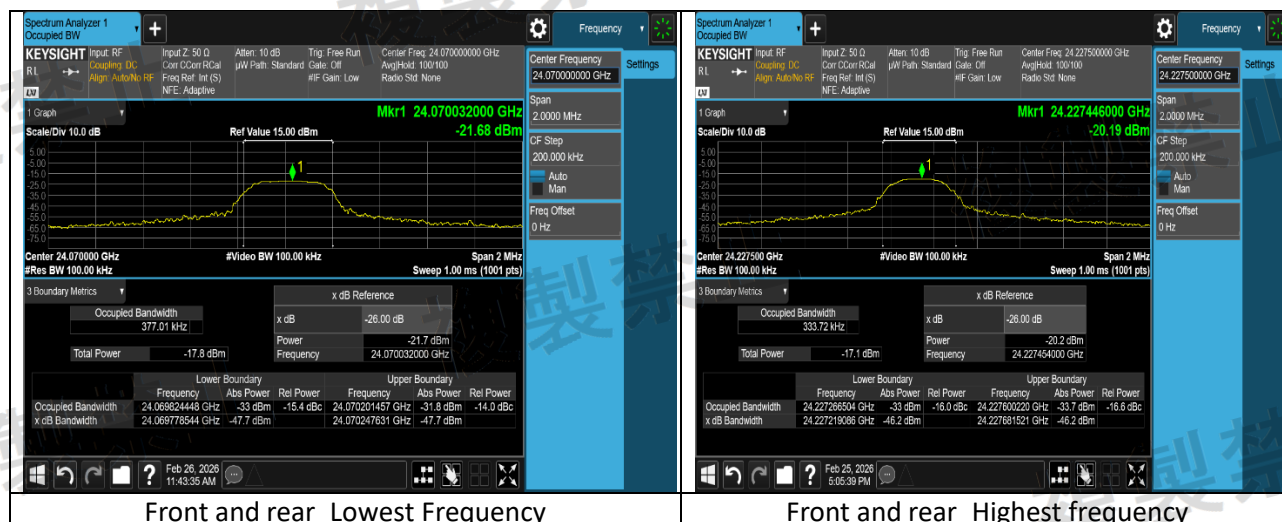
- (1) Test Conditions: Spectrum Analyzer is used for measurement.
- (2) EUT Conditions: CW Tx
- (3) Set the Spectrum Analyzer as: RBW: 100kHz, VBW: 100kHz, Sweep mode: Continuous sweep, Detect mode: Positive peak, Trace mode: Max hold.

4.3 Test Configuration



4.4 Test Results

Channel	Amplitude of vibration (mm)	Vibration direction	Vibrations Number	Lowest frequency (GHz)	Highest frequency (GHz)	Limit (GHz)	Result
L	3&1	All	500&1800	24.06982	-	24.05-24.25	Pass
H	3&1	All	500&1800	-	24.22760		Pass



5 Occupied Bandwidth (99%)

Test result: Pass

5.1 Limit

Item	Limits
Occupied Bandwidth (99%)	200MHz

5.2 Measurement Procedure

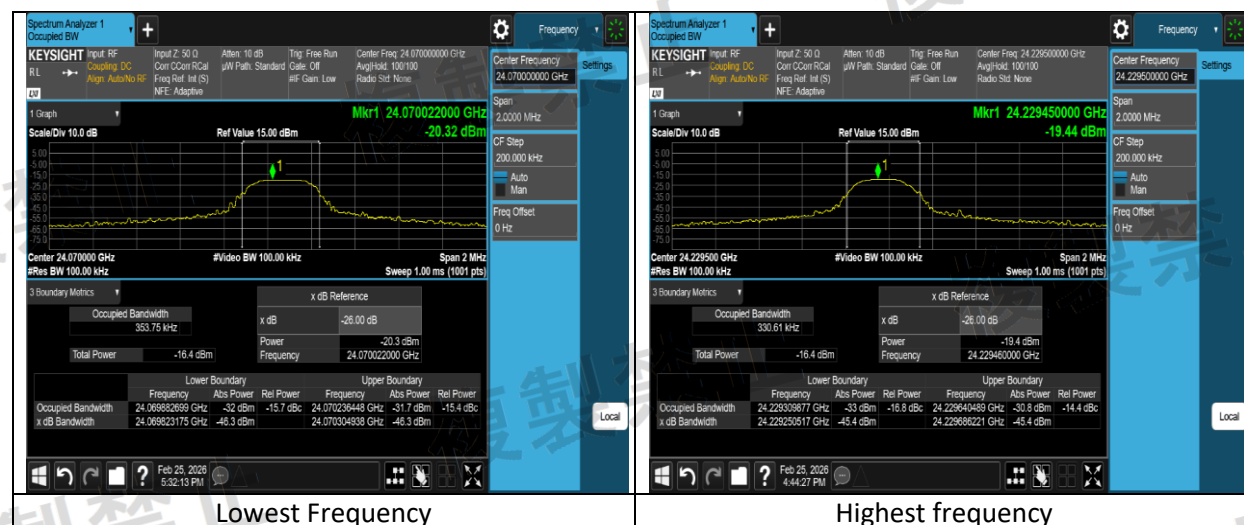
- (4) Test Conditions: Spectrum Analyzer is used for measurement.
- (5) EUT Conditions: CW Tx
- (6) Set the Spectrum Analyzer as: RBW: 100kHz, VBW: 100kHz, Sweep mode: Continuous sweep, Detect mode: Positive peak, Trace mode: Max hold.

5.3 Test Configuration



5.4 Test Results

Test Condition	Channel	Lowest frequency (GHz)	Highest frequency (GHz)	OBW (MHz)	Limit [MHz]	Result
NTNV	L&H	24.06988	24.22964	159.76	200	Pass



6 Antenna Power

Test result: Pass

6.1 Limit

Item	Limits
Antenna Power	0.02W or less

6.2 Measurement Procedure

- (1) Set the spectrum analyzer as follows:

Search:

Span: OBW×30%

RBW: 1MHz

VBW :1MHz

Detect mode: positive peak

Trace mode: Max hold

Measure:

Center Frequency: The frequency found

Span: 0 Hz

RBW: 3 MHz or higher

VBW: Similar to resolution bandwidth

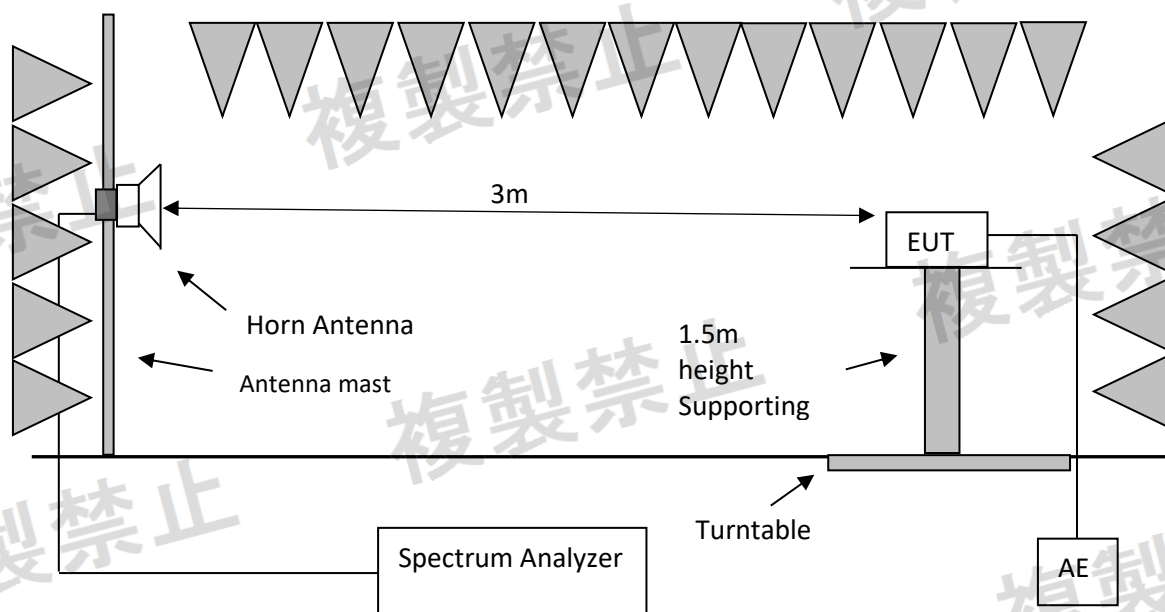
Y-axis Scale: 10 dB/Div

Sweep Time: The minimum time to guarantee measurement accuracy.

RMS or positive peak

Depending on the radio wave type

6.3 Test Configuration

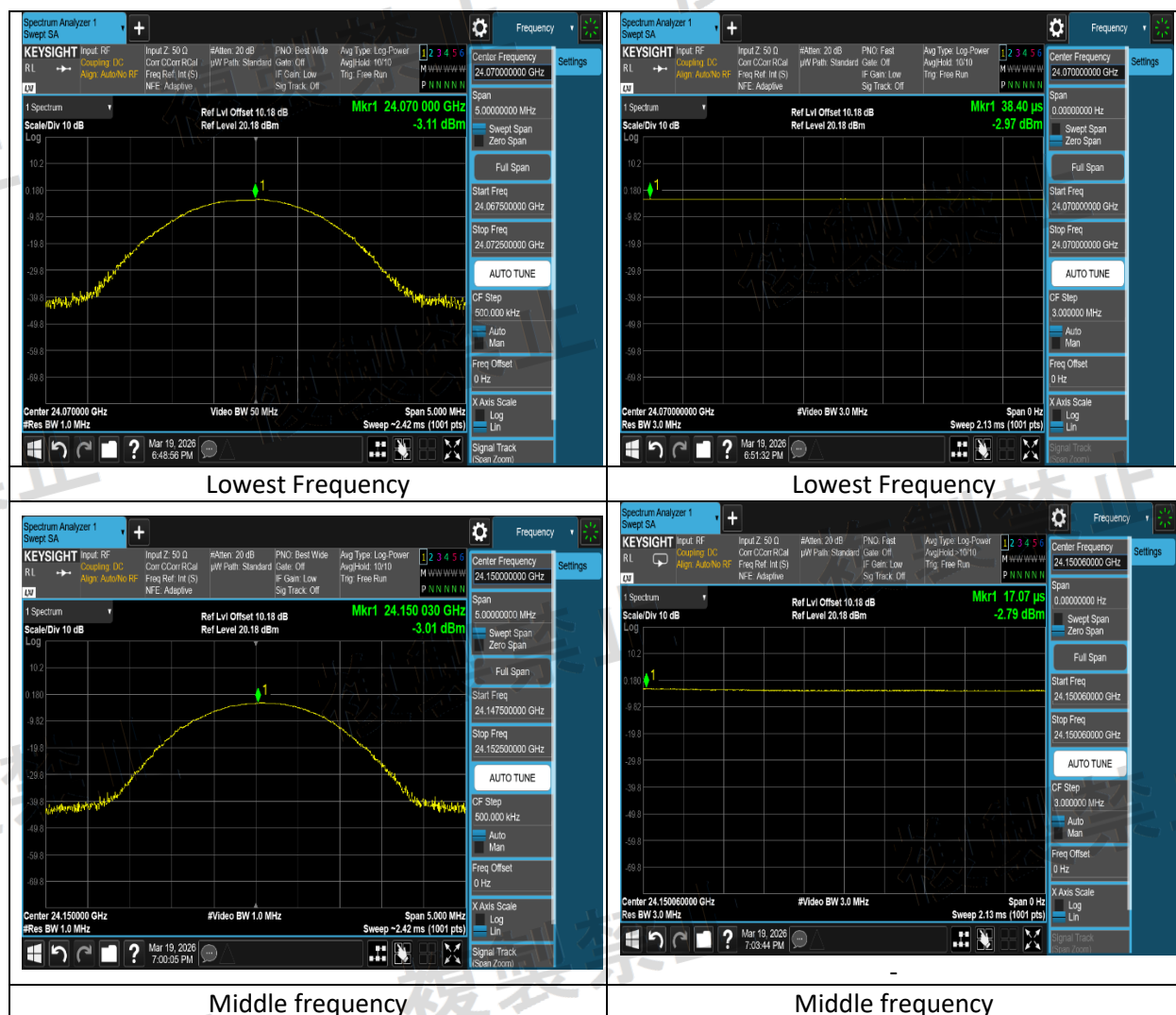


6.4 Test Results

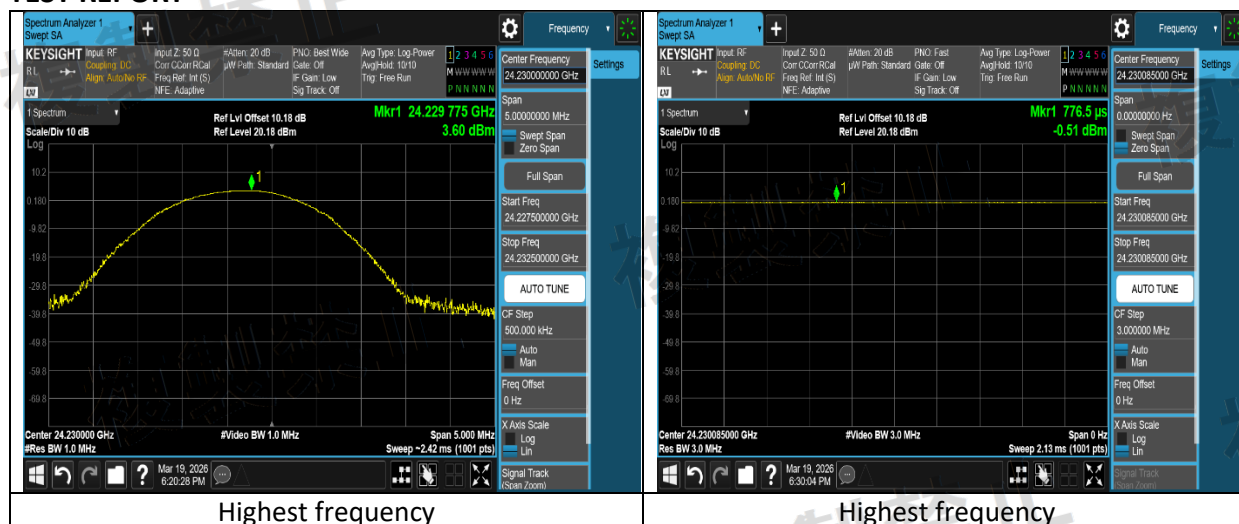
Channel	EIRP (dBm)	Limit (dBm)	Result
L	-2.97	37	Pass
M	-2.79	37	Pass
H	-0.51	37	Pass

Channel	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Result
L	0.29	0.5	-42	-50 to +50	Pass
M	0.30	0.5	-40	-50 to +50	Pass
H	0.51	0.5	2	-50 to +50	Pass

Note: Antenna power= EIRP-Antenna Gain



TEST REPORT



Highest frequency

Highest frequency

7 Unwanted Emission Strength

Test result: Pass

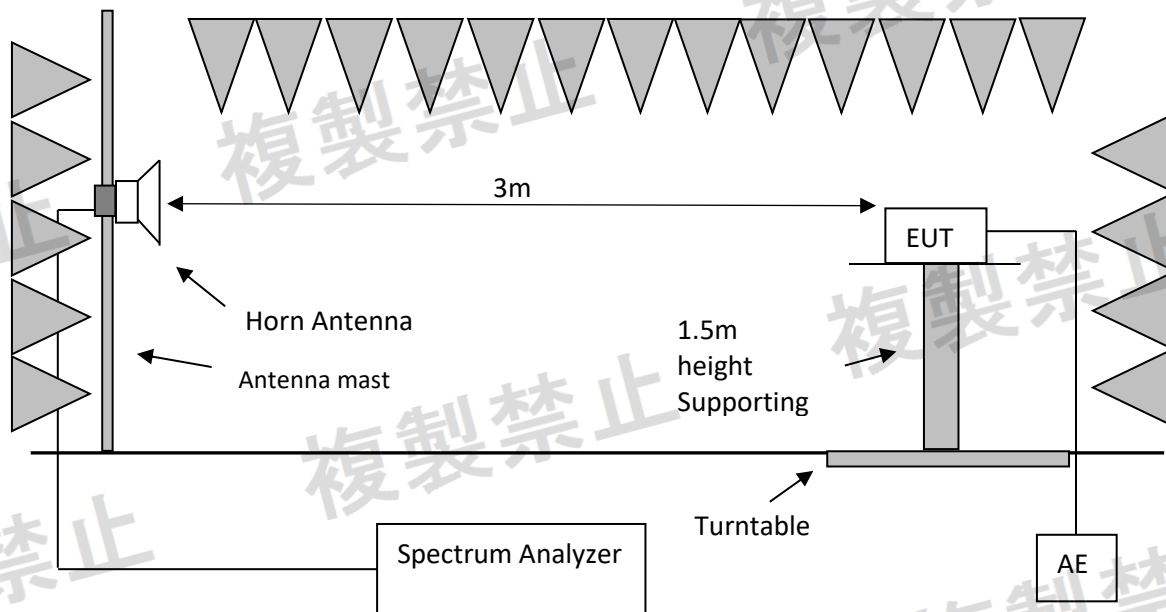
7.1 Limit

Item	Limits
Unwanted Emission Strength	2.5 μ W or less

7.2 Measurement Procedure

- (1) Set the EUT as transmitting the maximum power and fixed channel.
- (2) Set the Spectrum Analyzer as: RBW: 100kHz, VBW: 100kHz, Sweep time: Auto, Detect mode: Positive peak, Trace mode: Max hold to measure the spurious emission below 1GHz.
- (3) Set the Spectrum Analyzer as: RBW: 1MHz, VBW: 1MHz, Sweep time: Auto, Detect mode: Positive peak, Trace mode: Max hold to measure the spurious emission above 1GHz.
- (4) Follow above setting to measure spurious emission from 30MHz to 60000MHz.

7.3 Test Configuration

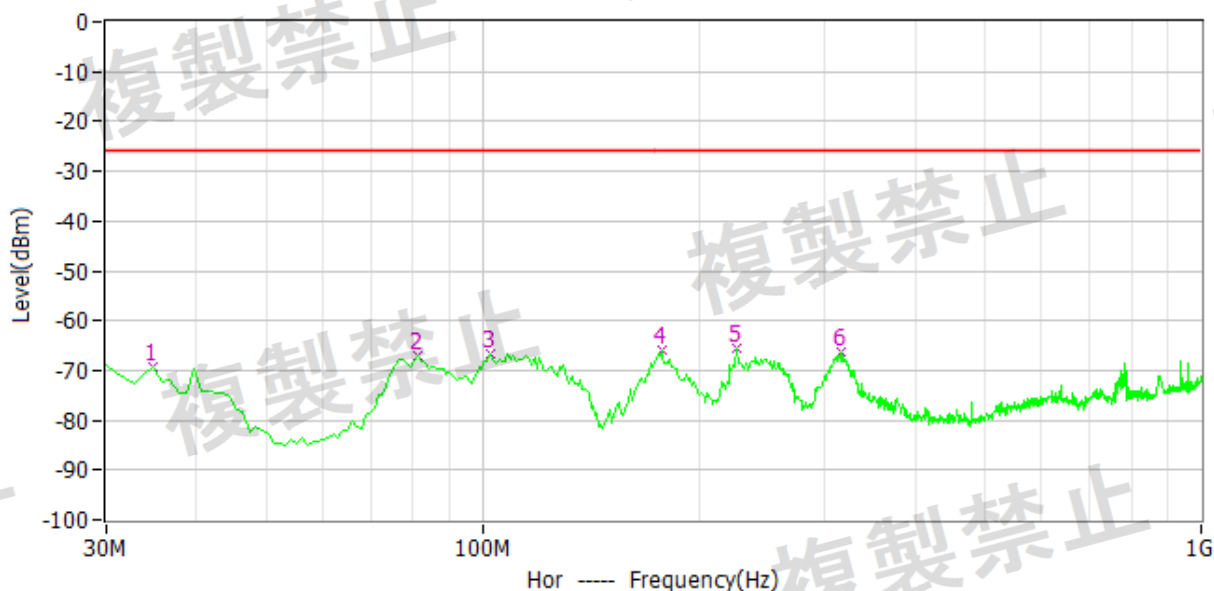


7.4 Test Results

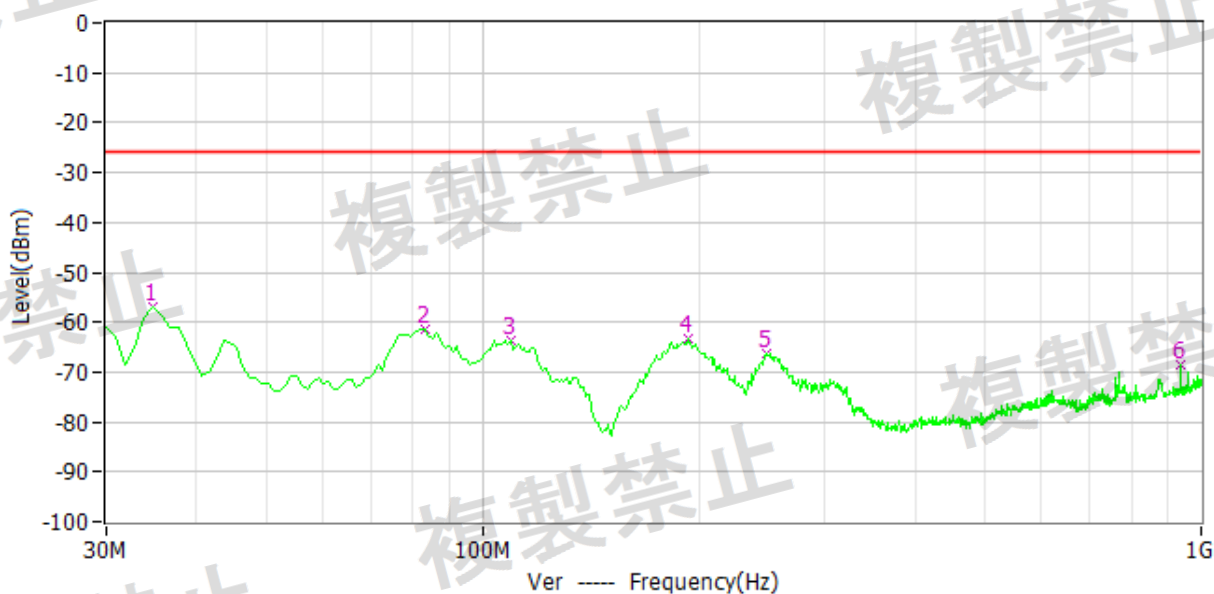
30M-1000MHz

Test channel: L

Horizontal



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	34.850	100k	Peak	Max	-69.44	-74.37	-26.02	-43.42	H	Pass
2*	81.410	100k	Peak	Max	-66.87	-86.73	-26.02	-40.85	H	Pass
3*	102.750	100k	Peak	Max	-66.73	-84.46	-26.02	-40.71	H	Pass
4*	177.440	100k	Peak	Max	-65.78	-83.13	-26.02	-39.76	H	Pass
5*	225.940	100k	Peak	Max	-65.59	-82.58	-26.02	-39.57	H	Pass
6*	316.150	100k	Peak	Max	-66.35	-80.70	-26.02	-40.33	H	Pass
1*	34.850	100k	Peak	Max	-56.95	-74.37	-26.02	-30.93	V	Pass
2*	83.350	100k	Peak	Max	-61.49	-86.51	-26.02	-35.47	V	Pass
3*	109.540	100k	Peak	Max	-63.49	-83.68	-26.02	-37.47	V	Pass
4*	192.960	100k	Peak	Max	-63.40	-82.57	-26.02	-37.38	V	Pass
5*	248.250	100k	Peak	Max	-66.11	-79.97	-26.02	-40.09	V	Pass
6*	935.980	100k	Peak	Max	-68.71	-74.09	-26.02	-42.69	V	Pass

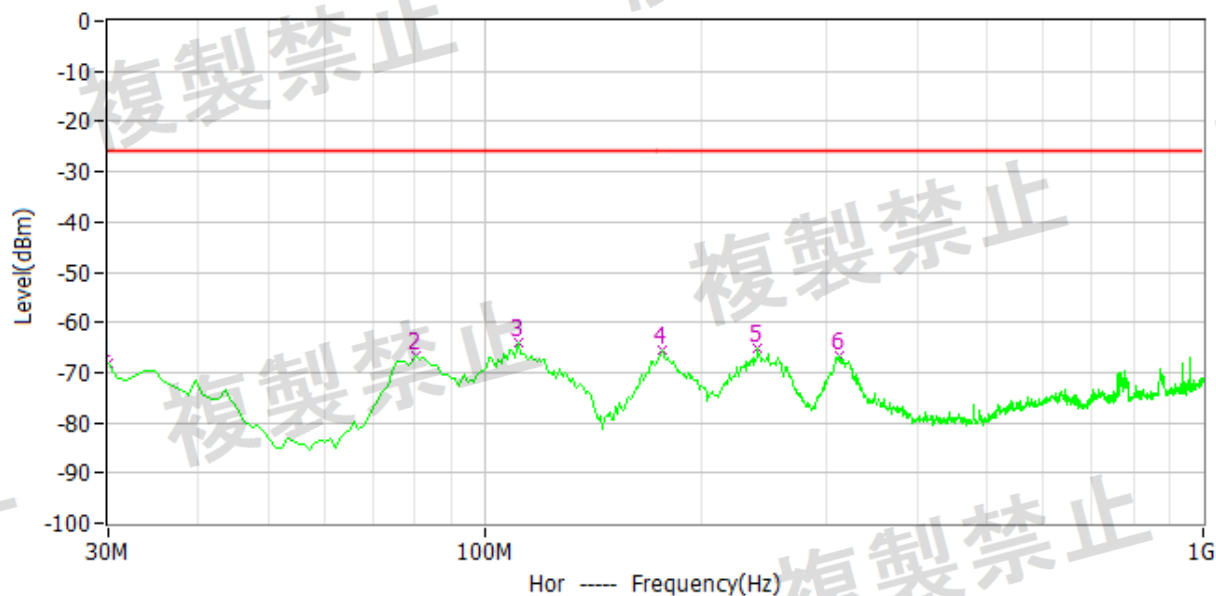
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

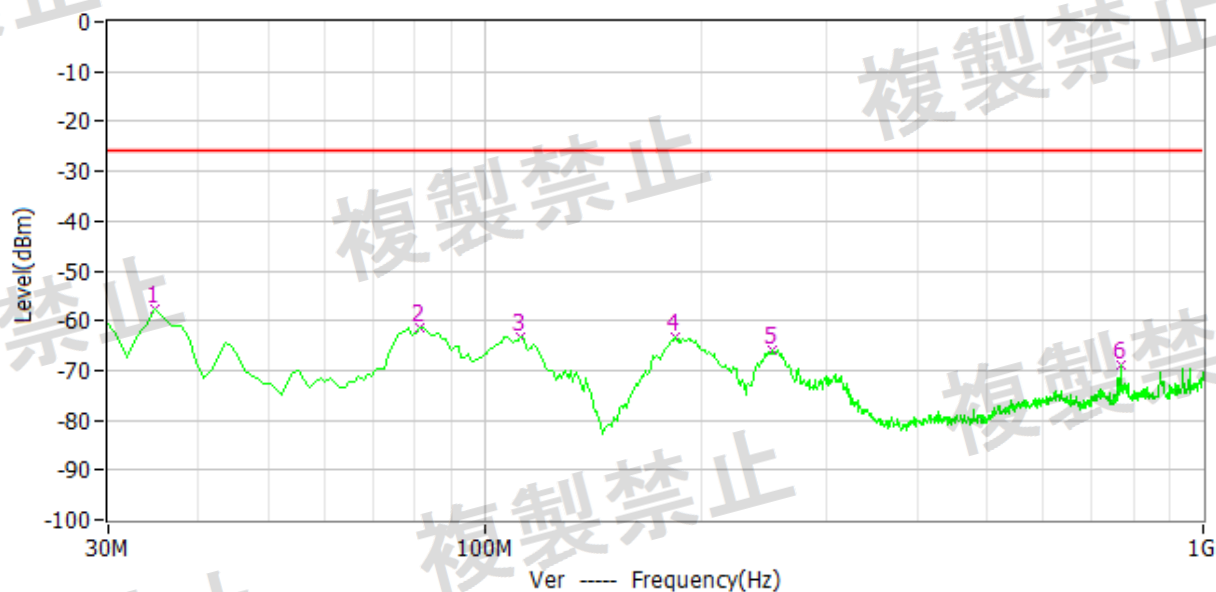
3. Margin = Limit - Measured Level

Test channel: M

Horizontal



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	30.000	100k	Peak	Max	-67.99	-70.19	-26.02	-41.97	H	Pass
2*	80.440	100k	Peak	Max	-66.59	-86.94	-26.02	-40.57	H	Pass
3*	111.480	100k	Peak	Max	-64.07	-83.36	-26.02	-38.05	H	Pass
4*	176.470	100k	Peak	Max	-65.58	-83.17	-26.02	-39.56	H	Pass
5*	240.490	100k	Peak	Max	-65.24	-80.21	-26.02	-39.22	H	Pass
6*	311.300	100k	Peak	Max	-66.72	-80.43	-26.02	-40.70	H	Pass
1*	34.850	100k	Peak	Max	-57.77	-74.37	-26.02	-31.75	V	Pass
2*	81.410	100k	Peak	Max	-61.27	-86.73	-26.02	-35.25	V	Pass
3*	112.450	100k	Peak	Max	-63.22	-83.20	-26.02	-37.20	V	Pass
4*	184.230	100k	Peak	Max	-63.47	-82.72	-26.02	-37.45	V	Pass
5*	252.130	100k	Peak	Max	-65.99	-80.25	-26.02	-39.97	V	Pass
6*	769.140	100k	Peak	Max	-69.01	-75.10	-26.02	-42.99	V	Pass

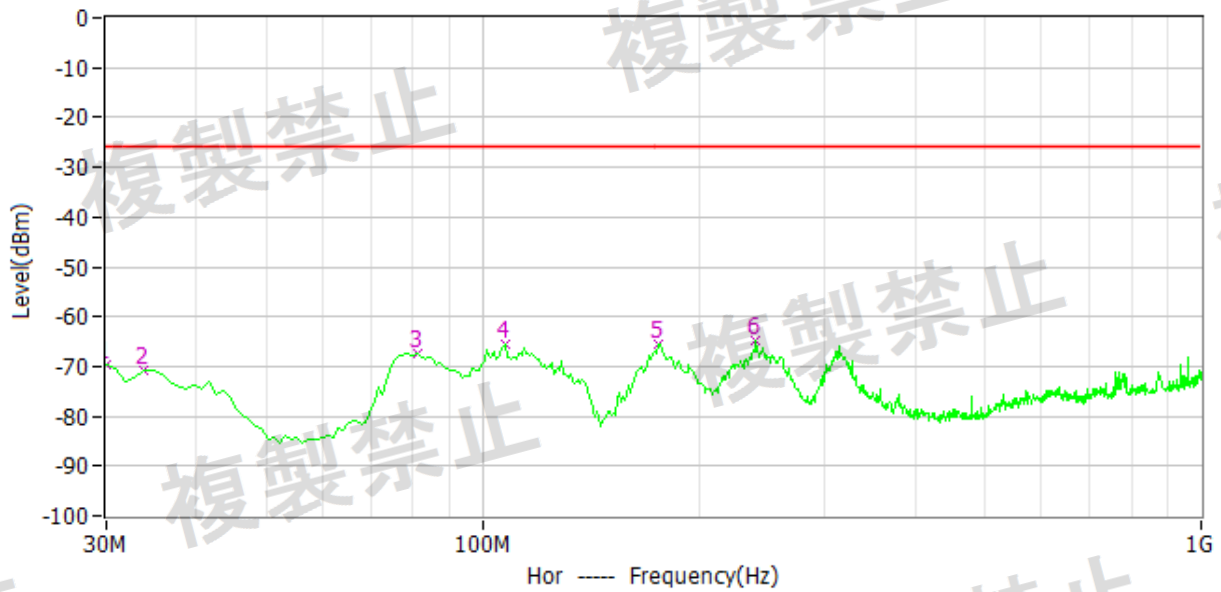
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

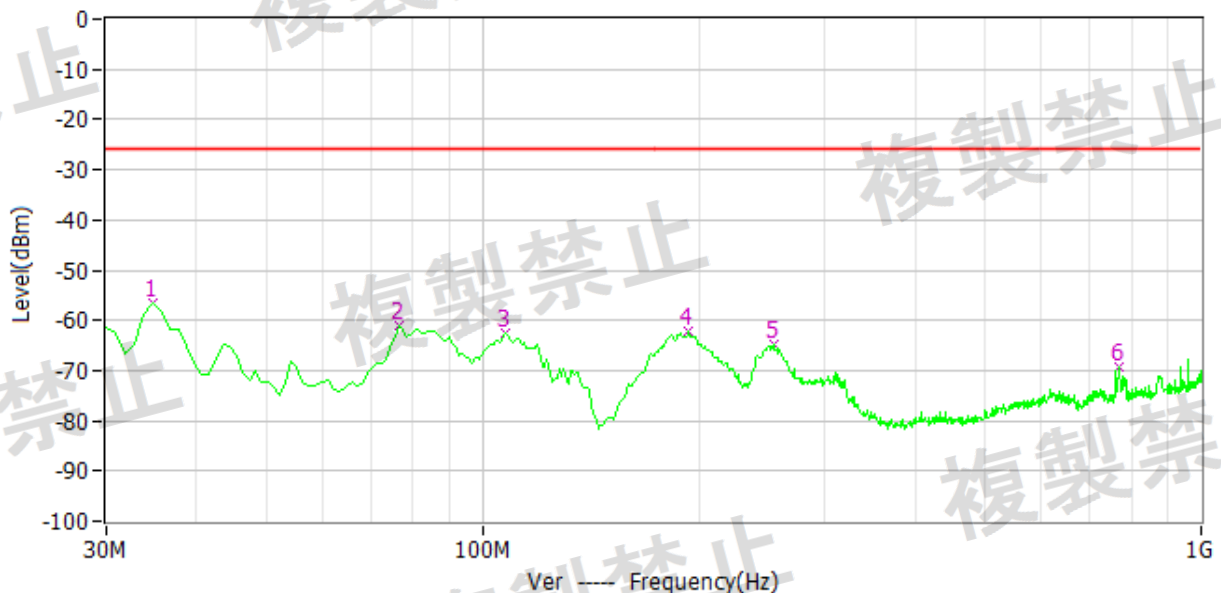
3. Margin = Limit - Measured Level

Test channel: H

Horizontal



Vertical



TEST REPORT

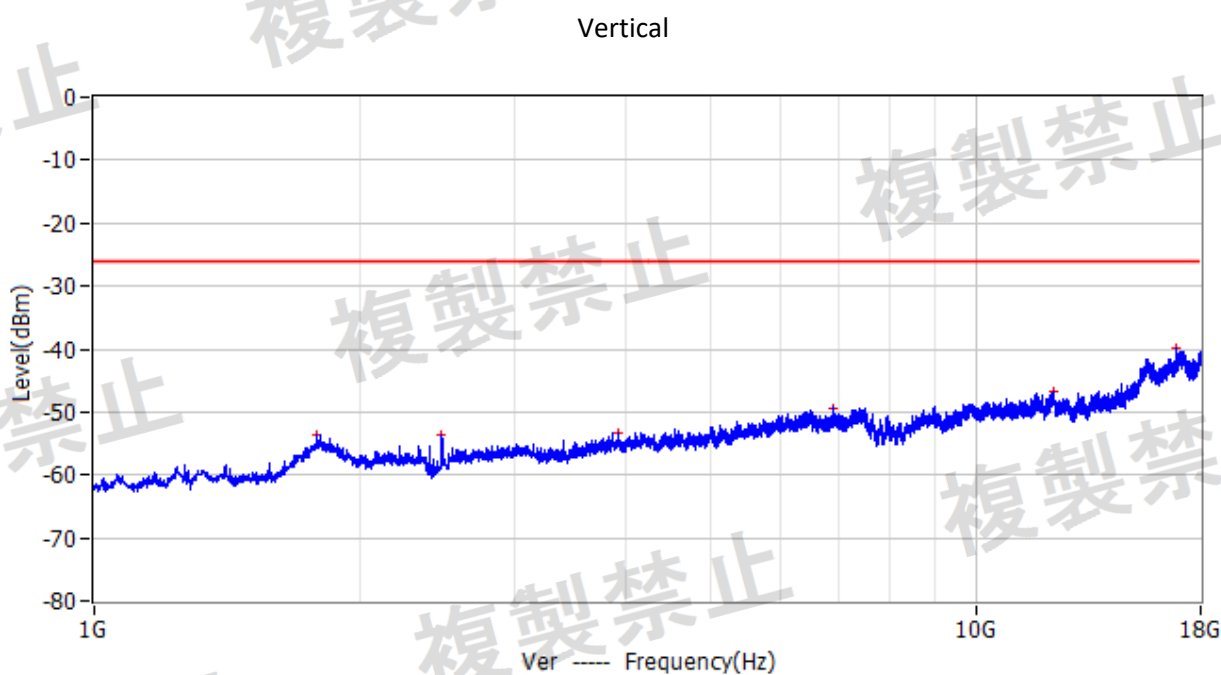
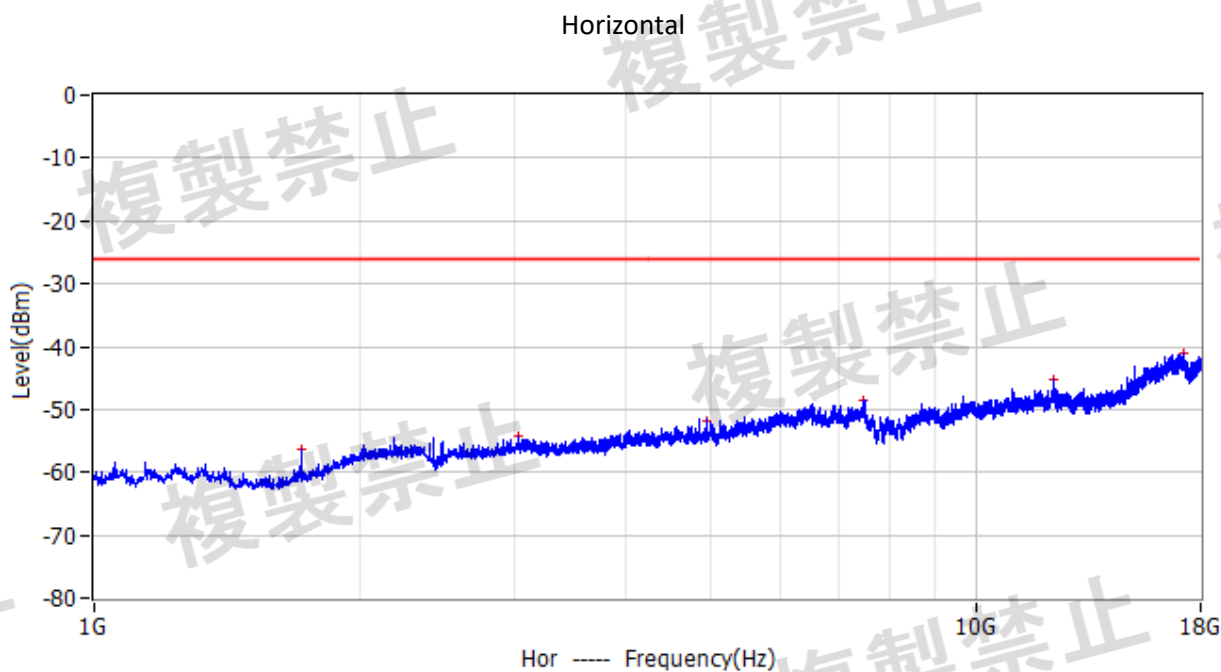
Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	30.000	100k	Peak	Max	-69.82	-70.19	-26.02	-43.80	H	Pass
2*	33.880	100k	Peak	Max	-70.73	-73.53	-26.02	-44.71	H	Pass
3*	81.410	100k	Peak	Max	-67.56	-86.73	-26.02	-41.54	H	Pass
4*	107.600	100k	Peak	Max	-65.57	-83.95	-26.02	-39.55	H	Pass
5*	175.500	100k	Peak	Max	-65.65	-83.20	-26.02	-39.63	H	Pass
6*	240.490	100k	Peak	Max	-64.89	-80.21	-26.02	-38.87	H	Pass
1*	34.850	100k	Peak	Max	-56.49	-74.37	-26.02	-30.47	V	Pass
2*	76.560	100k	Peak	Max	-61.02	-87.38	-26.02	-35.00	V	Pass
3*	107.600	100k	Peak	Max	-62.45	-83.95	-26.02	-36.43	V	Pass
4*	193.930	100k	Peak	Max	-62.20	-82.57	-26.02	-36.18	V	Pass
5*	254.070	100k	Peak	Max	-64.84	-80.38	-26.02	-38.82	V	Pass
6*	768.170	100k	Peak	Max	-69.23	-75.17	-26.02	-43.21	V	Pass

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

3. Margin = Limit - Measured Level



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	1717	1MHz	Peak	Max	-56.4	-118.3	-26.02	-30.38	H	Pass
2*	3026	1MHz	Peak	Max	-54.2	-112.7	-26.02	-28.18	H	Pass
3*	4959	1MHz	Peak	Max	-51.7	-109.1	-26.02	-25.68	H	Pass
4*	7474	1MHz	Peak	Max	-48.4	-104.7	-26.02	-22.38	H	Pass
5*	12268	1MHz	Peak	Max	-45.3	-98.4	-26.02	-19.28	H	Pass
6*	17203	1MHz	Peak	Max	-40.9	-90.8	-26.02	-14.88	H	Pass
1*	1791	1MHz	Peak	Max	-53.7	-112.3	-26.02	-27.68	V	Pass
2*	2479	1MHz	Peak	Max	-53.6	-114.3	-26.02	-27.58	V	Pass
3*	3934	1MHz	Peak	Max	-53.4	-111.0	-26.02	-27.38	V	Pass
4*	6892	1MHz	Peak	Max	-49.3	-105.1	-26.02	-23.28	V	Pass
5*	12246	1MHz	Peak	Max	-46.6	-98.7	-26.02	-20.58	V	Pass
6*	16883	1MHz	Peak	Max	-39.8	-91.5	-26.02	-13.78	V	Pass

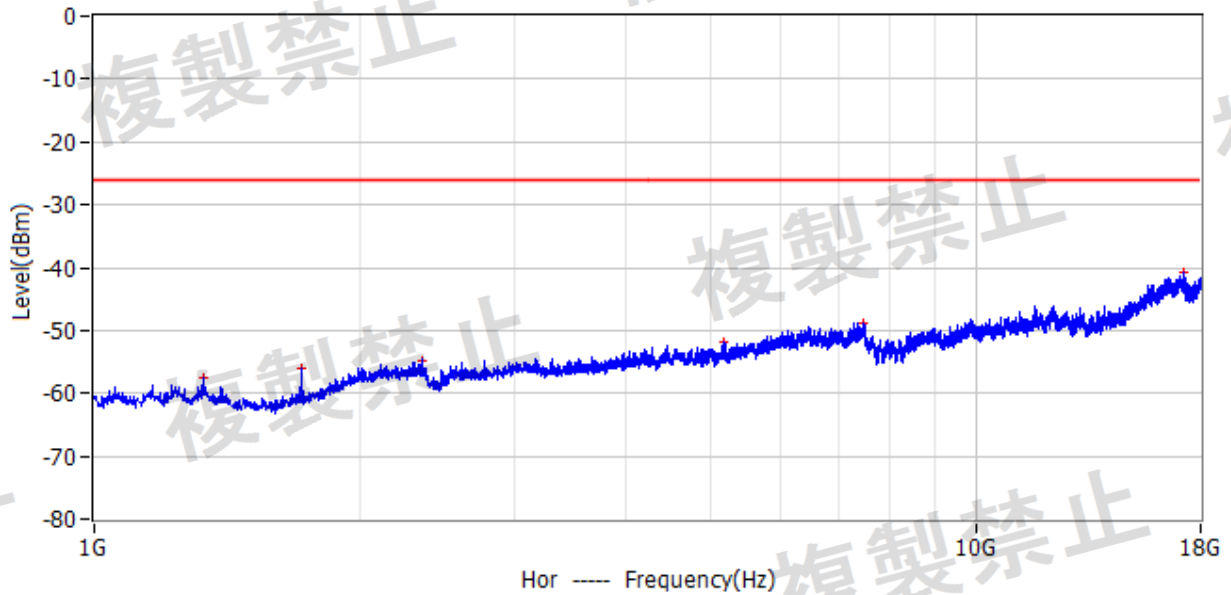
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

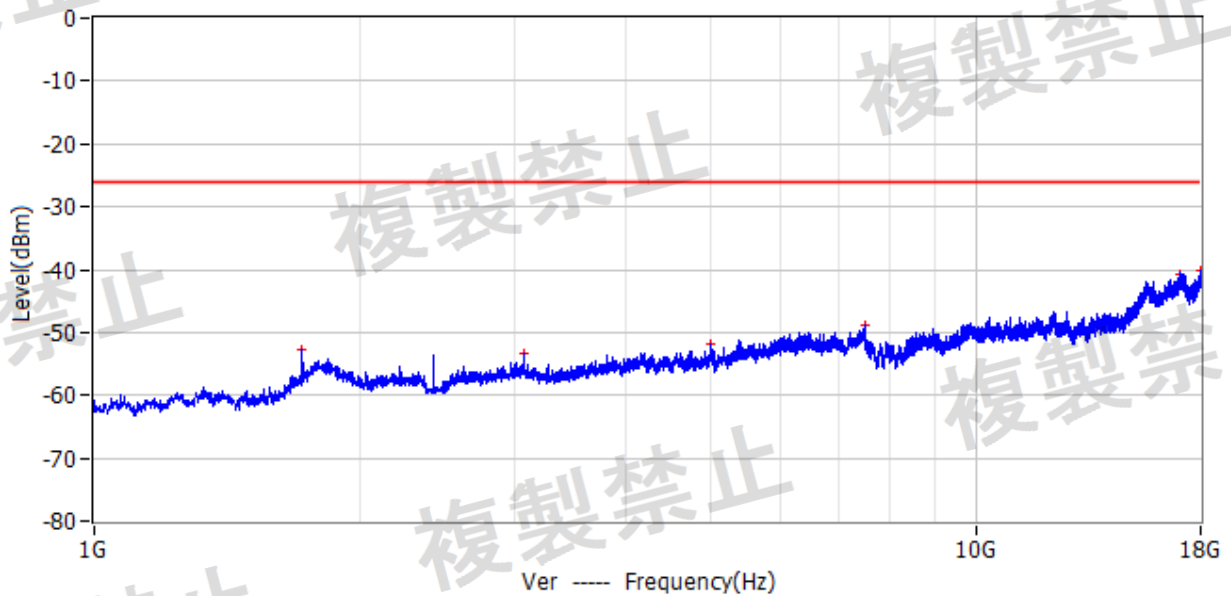
3. Margin = Limit - Measured Level

Test channel: M

Horizontal



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	1328	1MHz	Peak	Max	-57.6	-117.6	-26.02	-31.58	H	Pass
2*	1717	1MHz	Peak	Max	-56.1	-118.3	-26.02	-30.08	H	Pass
3*	2360	1MHz	Peak	Max	-54.7	-113.7	-26.02	-28.68	H	Pass
4*	5184	1MHz	Peak	Max	-51.8	-108.1	-26.02	-25.78	H	Pass
5*	7465	1MHz	Peak	Max	-48.8	-104.7	-26.02	-22.78	H	Pass
6*	17211	1MHz	Peak	Max	-40.6	-90.8	-26.02	-14.58	H	Pass
1*	1721	1MHz	Peak	Max	-52.8	-114.3	-26.02	-26.78	V	Pass
2*	3077	1MHz	Peak	Max	-53.2	-112.9	-26.02	-27.18	V	Pass
3*	5015	1MHz	Peak	Max	-51.7	-108.8	-26.02	-25.68	V	Pass
4*	7491	1MHz	Peak	Max	-48.9	-104.7	-26.02	-22.88	V	Pass
5*	17021	1MHz	Peak	Max	-40.6	-90.2	-26.02	-14.58	V	Pass
6*	17964	1MHz	Peak	Max	-40.2	-90.3	-26.02	-14.18	V	Pass

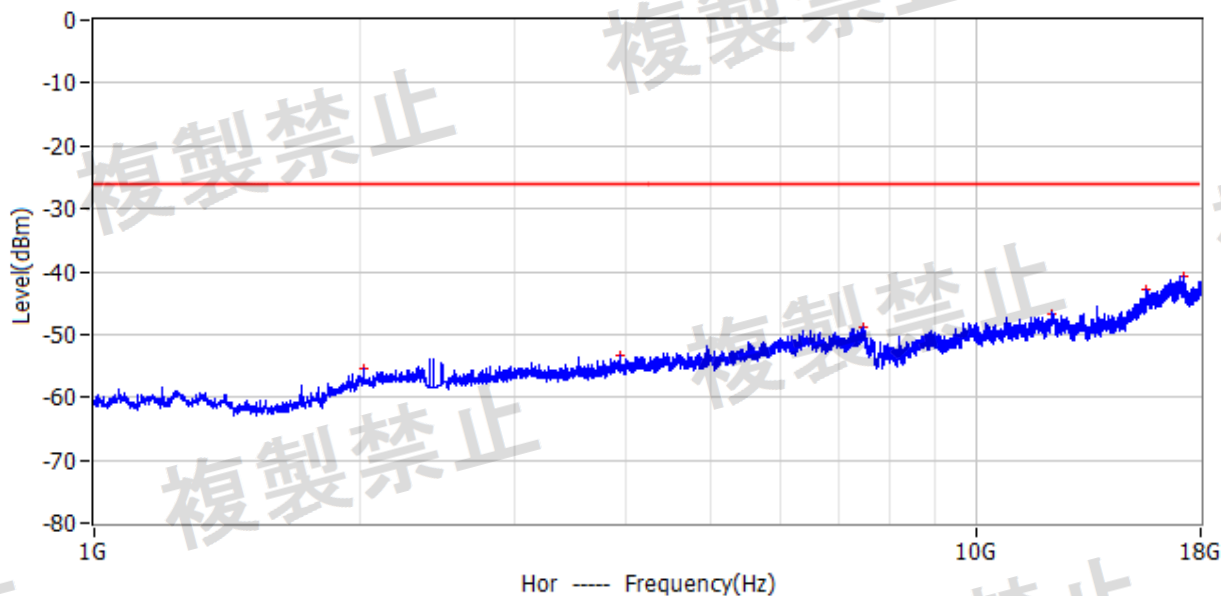
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

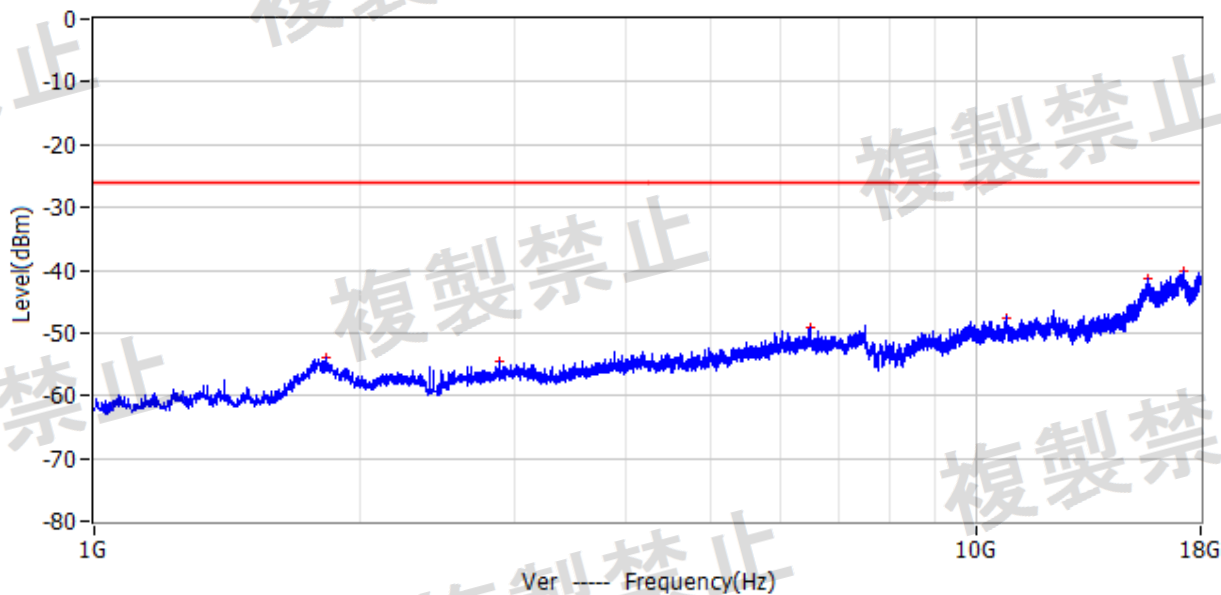
3. Margin = Limit - Measured Level

Test channel: H

Horizontal



Vertical



TEST REPORT

Test data

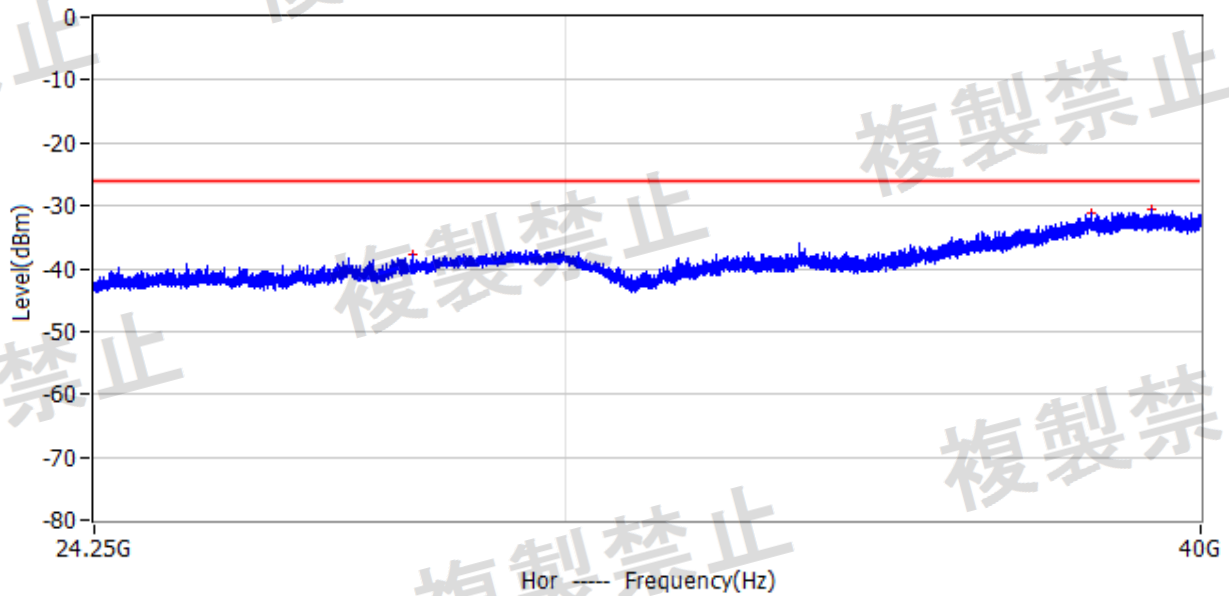
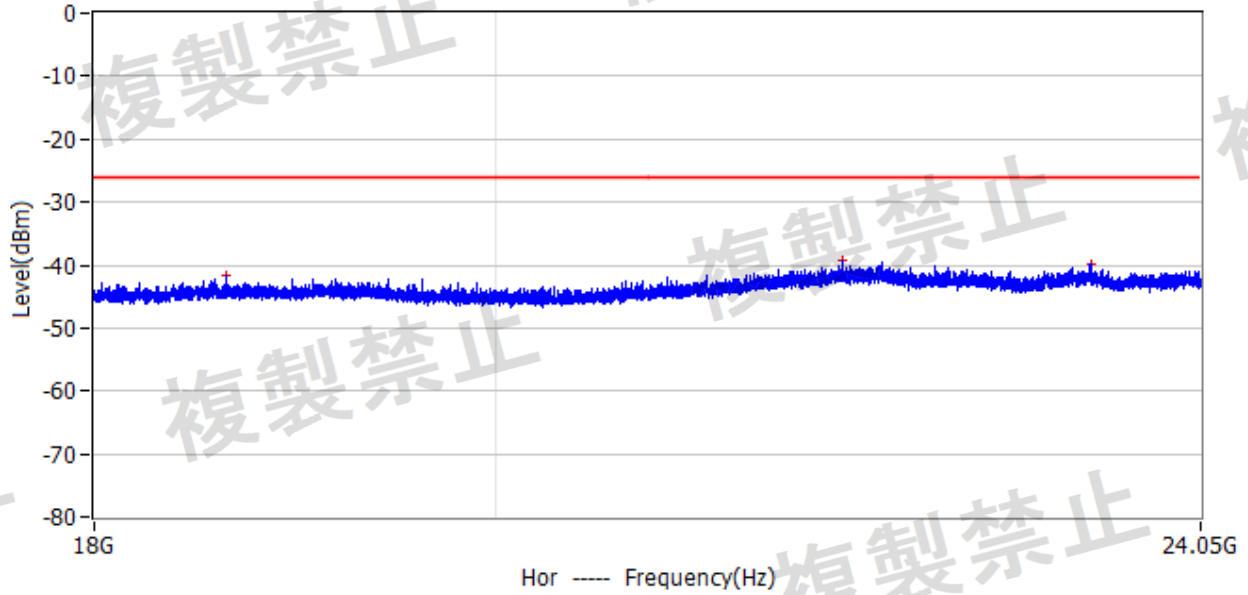
No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	2022	1MHz	Peak	Max	-55.4	-114.4	-26.02	-29.38	H	Pass
2*	3941	1MHz	Peak	Max	-53.3	-111.1	-26.02	-27.28	H	Pass
3*	7440	1MHz	Peak	Max	-48.9	-104.8	-26.02	-22.88	H	Pass
4*	12225	1MHz	Peak	Max	-46.6	-98.3	-26.02	-20.58	H	Pass
5*	15639	1MHz	Peak	Max	-42.9	-94.5	-26.02	-16.88	H	Pass
6*	17198	1MHz	Peak	Max	-40.7	-90.7	-26.02	-14.68	H	Pass
1*	1831	1MHz	Peak	Max	-53.8	-112.5	-26.02	-27.78	V	Pass
2*	2889	1MHz	Peak	Max	-54.5	-113.3	-26.02	-28.48	V	Pass
3*	6484	1MHz	Peak	Max	-49.2	-105.4	-26.02	-23.18	V	Pass
4*	10818	1MHz	Peak	Max	-47.5	-99.9	-26.02	-21.48	V	Pass
5*	15676	1MHz	Peak	Max	-41.3	-92.7	-26.02	-15.28	V	Pass
6*	17230	1MHz	Peak	Max	-40.2	-89.8	-26.02	-14.18	V	Pass

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

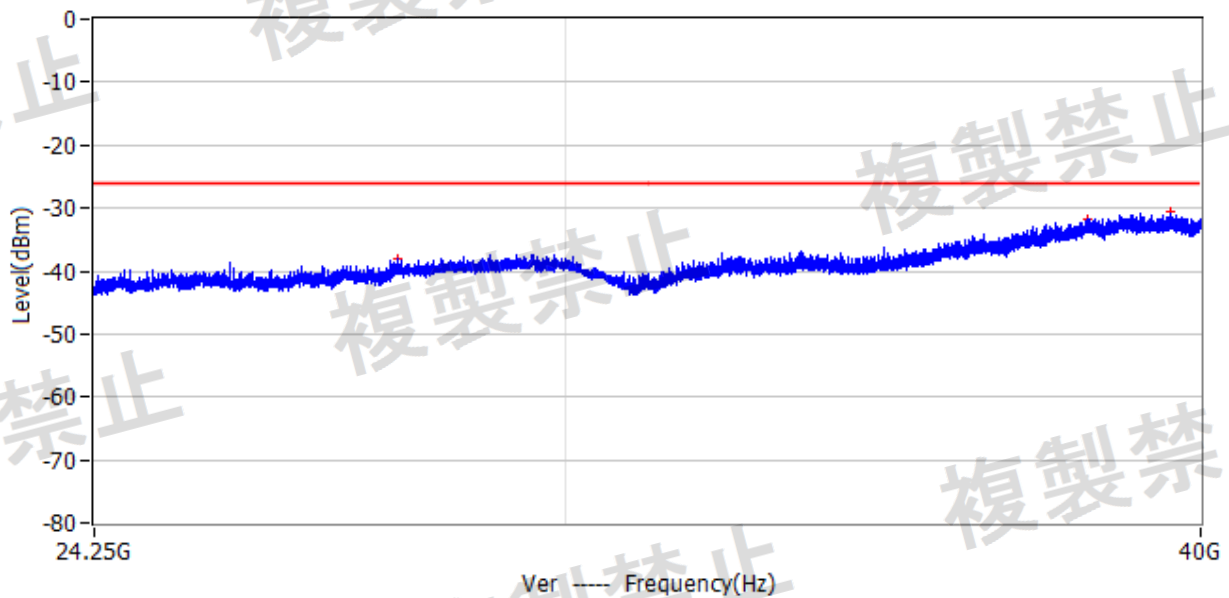
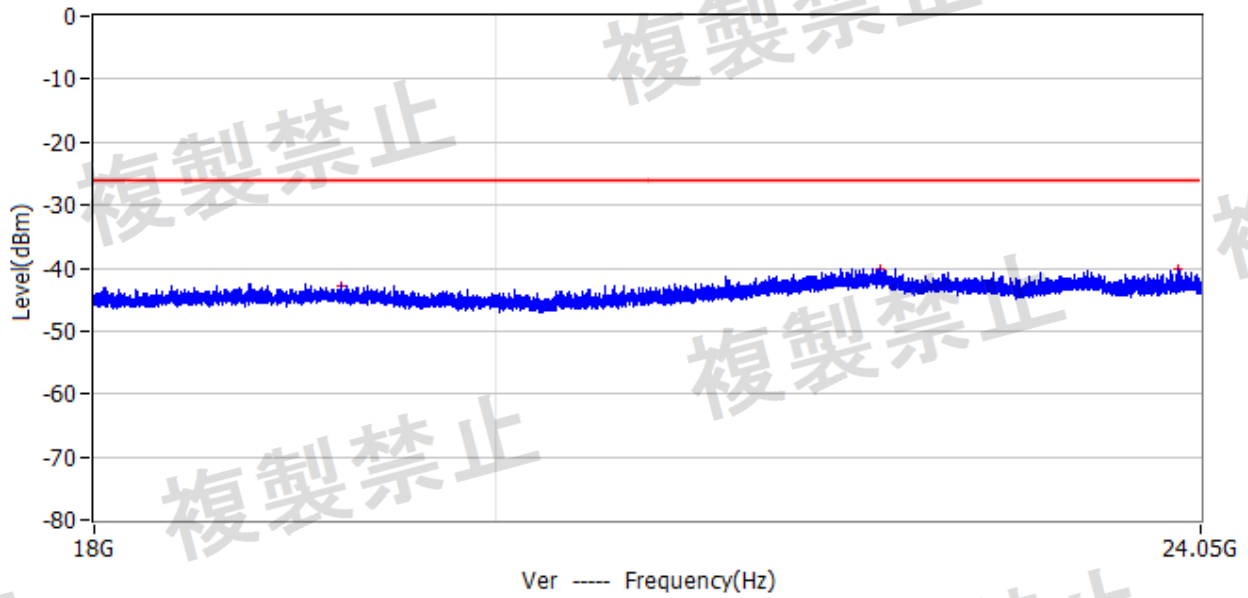
2. Measured Level = Reading + Factor

3. Margin = Limit - Measured Level

Horizontal



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	1863	1MHz	Peak	Max	-41.7	-97.4	-26.02	-15.68	H	Pass
2*	21896	1MHz	Peak	Max	-39.3	-94.5	-26.02	-13.28	H	Pass
3*	23368	1MHz	Peak	Max	-39.8	-93.5	-26.02	-13.78	H	Pass
1*	28006	1MHz	Peak	Max	-37.9	-88.9	-26.02	-11.88	H	Pass
2*	38072	1MHz	Peak	Max	-31.2	-84.9	-26.02	-5.18	H	Pass
3*	39138	1MHz	Peak	Max	-30.5	-83.8	-26.02	-4.48	H	Pass
1*	19204	1MHz	Peak	Max	-42.7	-97.1	-26.02	-16.68	V	Pass
2*	22114	1MHz	Peak	Max	-40.0	-94.3	-26.02	-13.98	V	Pass
3*	23910	1MHz	Peak	Max	-40.0	-93.0	-26.02	-13.98	V	Pass
1*	27810	1MHz	Peak	Max	-38.2	-89.0	-26.02	-12.18	V	Pass
2*	38004	1MHz	Peak	Max	-31.7	-85.0	-26.02	-5.68	V	Pass
3*	39463	1MHz	Peak	Max	-30.7	-83.5	-26.02	-4.68	V	Pass

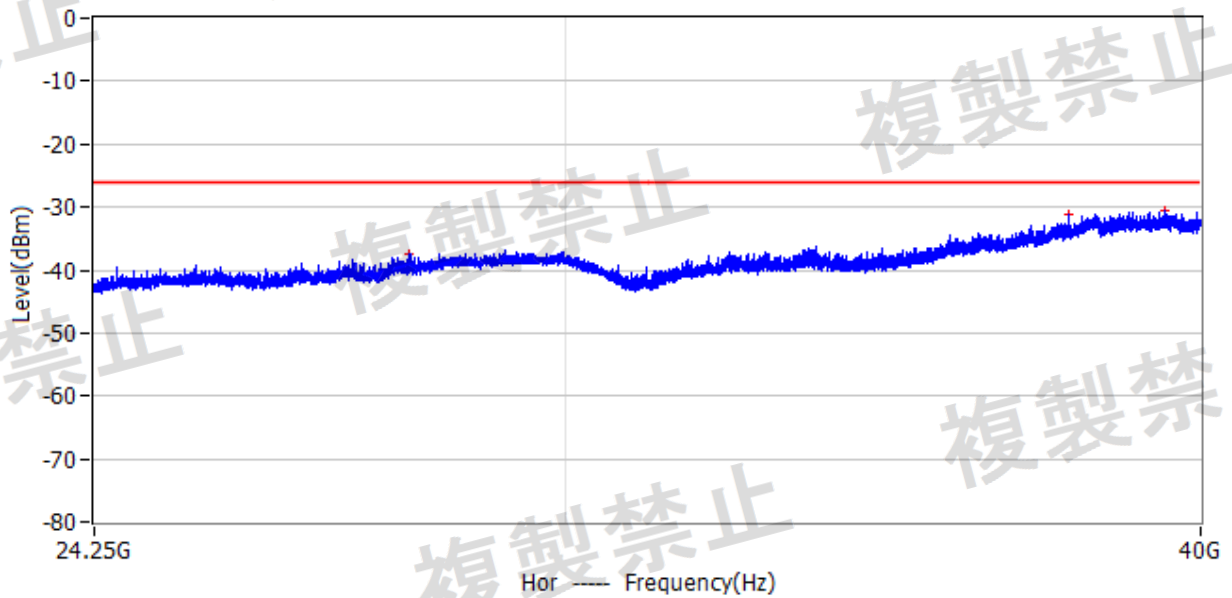
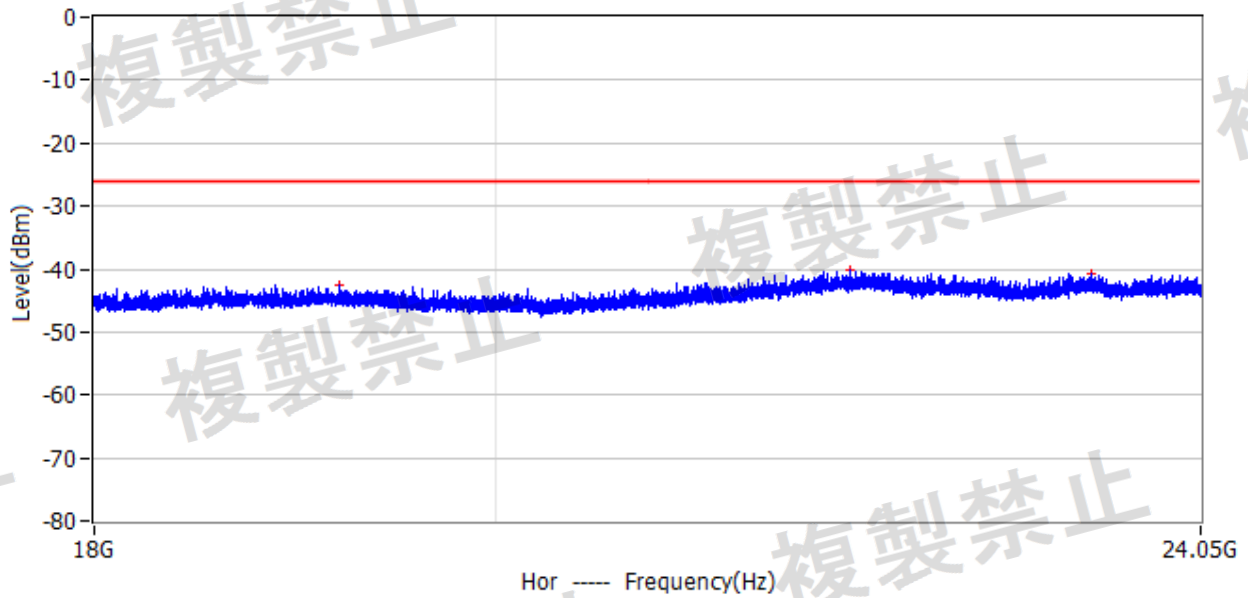
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

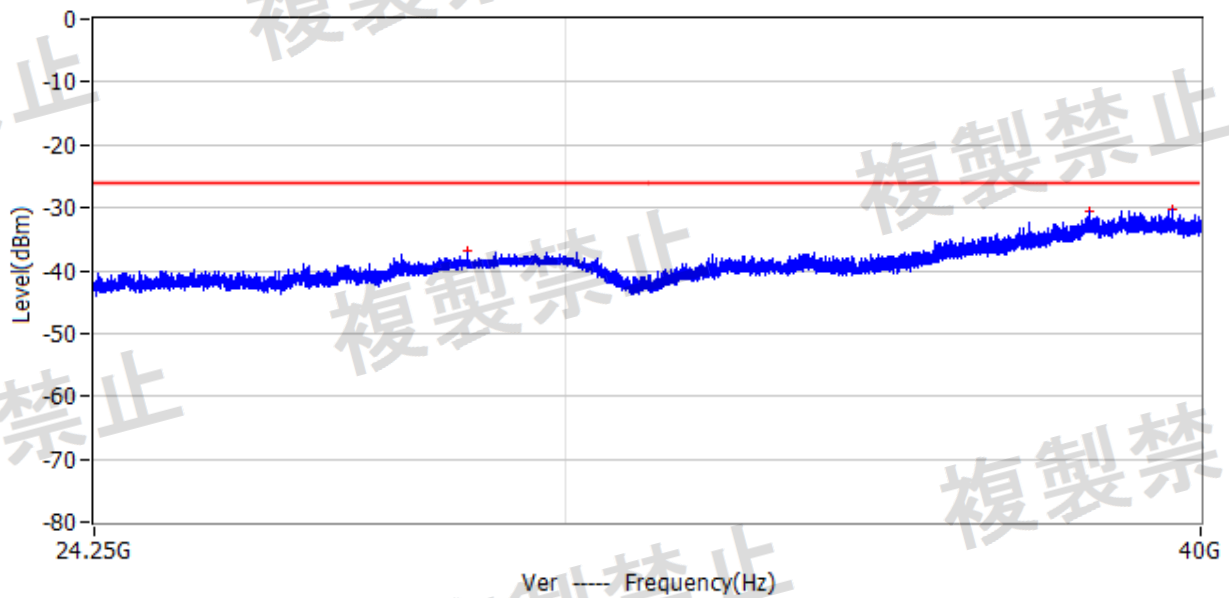
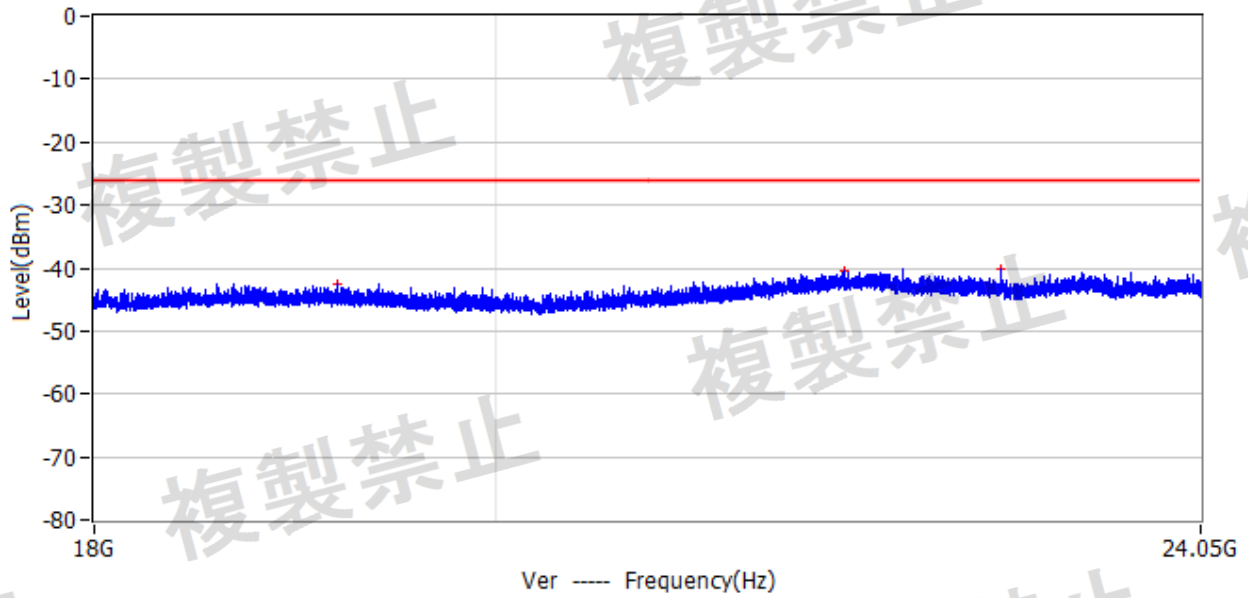
3. Margin = Limit - Measured Level

Test channel: M

Horizontal



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	19192	1MHz	Peak	Max	-42.4	-97.2	-26.02	-16.38	H	Pass
2*	21940	1MHz	Peak	Max	-40.1	-94.4	-26.02	-14.08	H	Pass
3*	23374	1MHz	Peak	Max	-40.7	-93.5	-26.02	-14.68	H	Pass
1*	27972	1MHz	Peak	Max	-37.4	-88.9	-26.02	-11.38	H	Pass
2*	37694	1MHz	Peak	Max	-31.2	-85.3	-26.02	-5.18	H	Pass
3*	39370	1MHz	Peak	Max	-30.5	-83.6	-26.02	-4.48	H	Pass
1*	19183	1MHz	Peak	Max	-42.6	-97.2	-26.02	-16.58	V	Pass
2*	21910	1MHz	Peak	Max	-40.4	-94.5	-26.02	-14.38	V	Pass
3*	22829	1MHz	Peak	Max	-40.2	-93.9	-26.02	-14.18	V	Pass
1*	28714	1MHz	Peak	Max	-37.0	-88.2	-26.02	-10.98	V	Pass
2*	38050	1MHz	Peak	Max	-30.6	-84.9	-26.02	-4.58	V	Pass
3*	39502	1MHz	Peak	Max	-30.4	-83.4	-26.02	-4.38	V	Pass

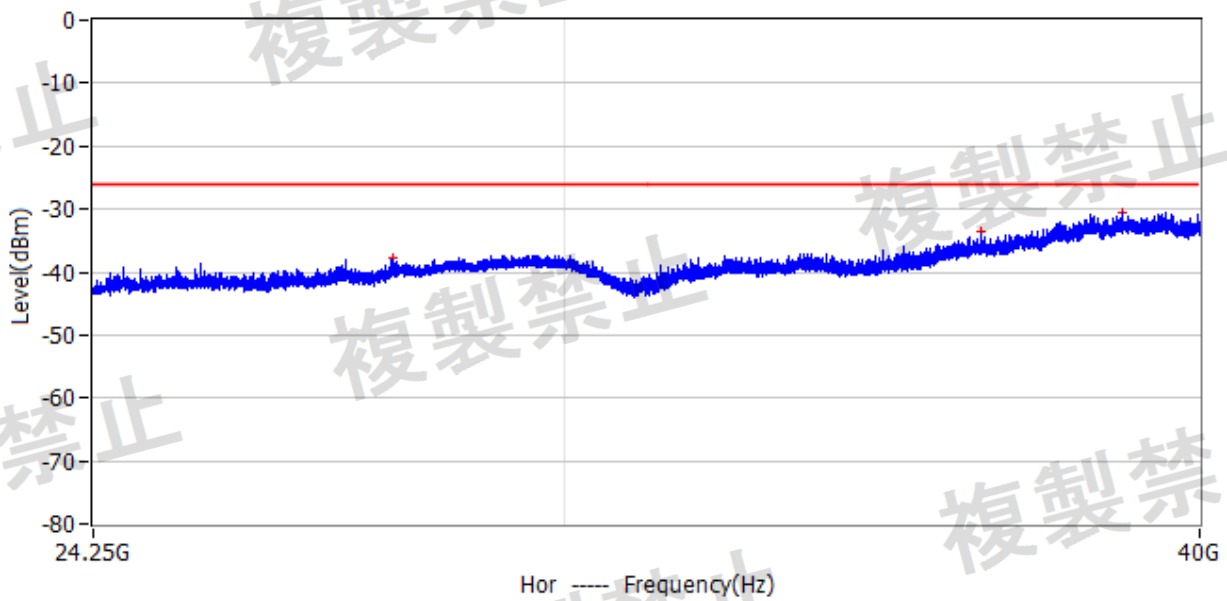
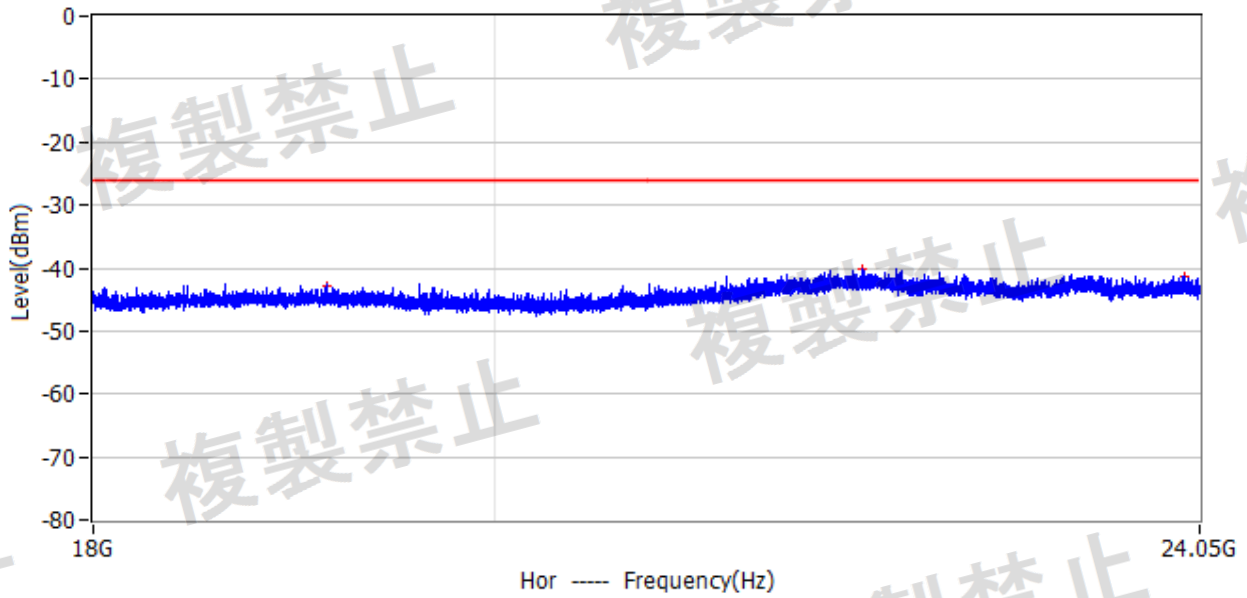
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

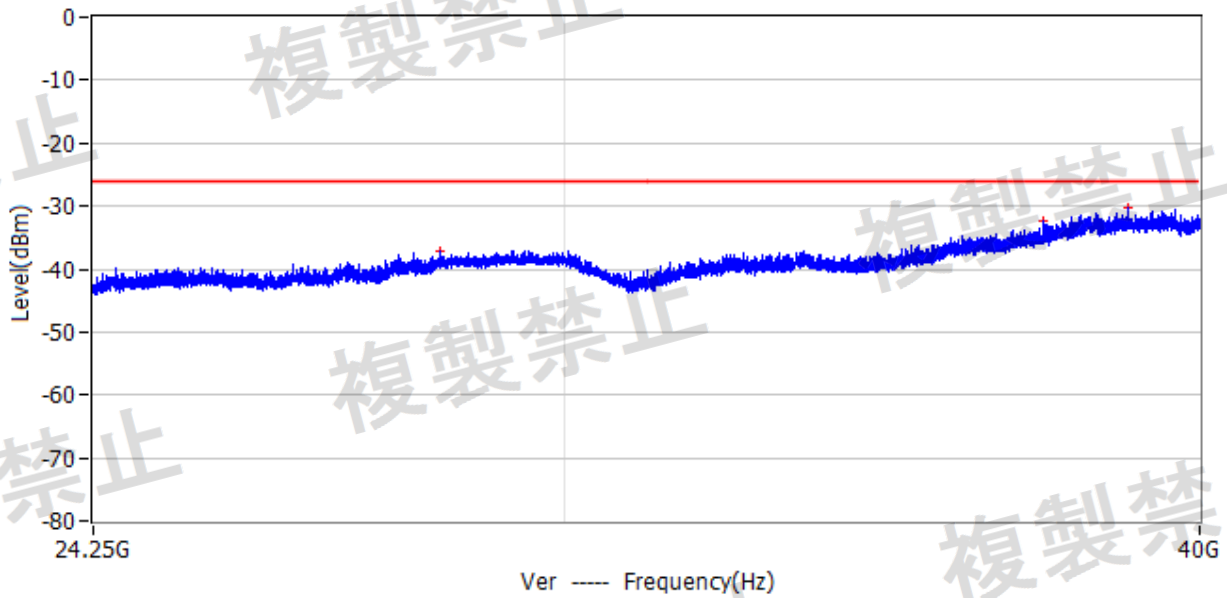
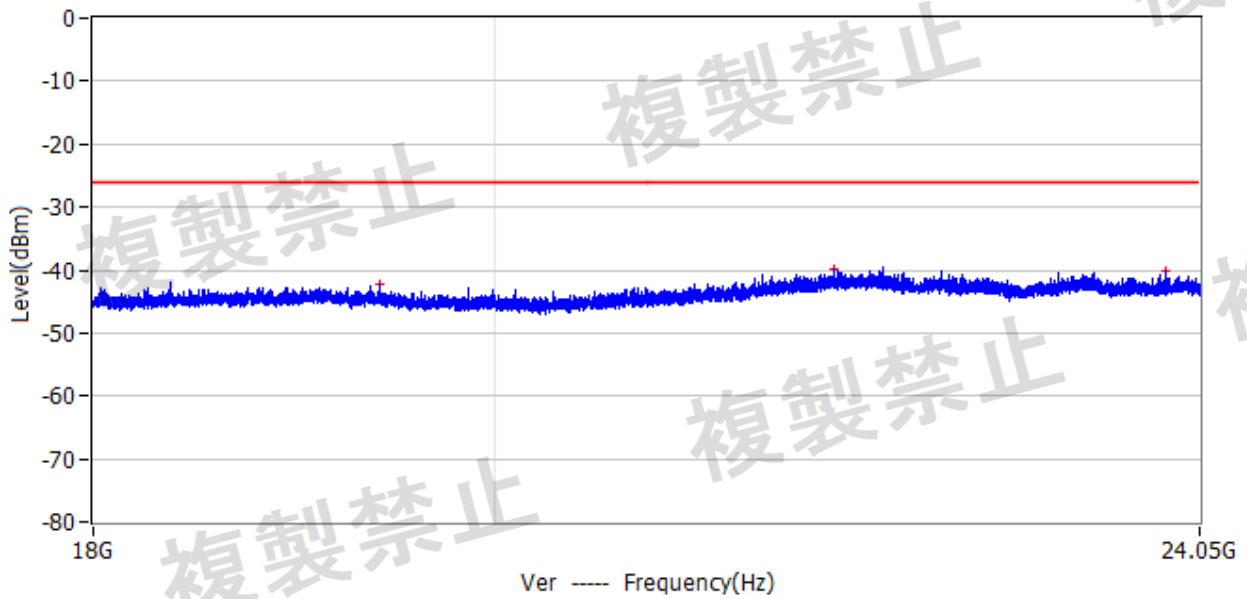
3. Margin = Limit - Measured Level

Test channel: H

Horizontal



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	19139	1MHz	Peak	Max	-42.7	-97.2	-26.02	-16.68	H	Pass
2*	22021	1MHz	Peak	Max	-40.1	-94.3	-26.02	-14.08	H	Pass
3*	23957	1MHz	Peak	Max	-41.3	-93.0	-26.02	-15.28	H	Pass
1*	27769	1MHz	Peak	Max	-37.9	-89.1	-26.02	-11.88	H	Pass
2*	36240	1MHz	Peak	Max	-33.7	-86.7	-26.02	-7.68	H	Pass
3*	38638	1MHz	Peak	Max	-30.5	-84.3	-26.02	-4.48	H	Pass
1*	19398	1MHz	Peak	Max	-42.3	-97.0	-26.02	-16.28	V	Pass
2*	21851	1MHz	Peak	Max	-39.9	-94.6	-26.02	-13.88	V	Pass
3*	23839	1MHz	Peak	Max	-40.0	-93.1	-26.02	-13.98	V	Pass
1*	28367	1MHz	Peak	Max	-37.2	-88.5	-26.02	-11.18	V	Pass
2*	37260	1MHz	Peak	Max	-32.3	-85.6	-26.02	-6.28	V	Pass
3*	38712	1MHz	Peak	Max	-30.3	-84.2	-26.02	-4.28	V	Pass

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

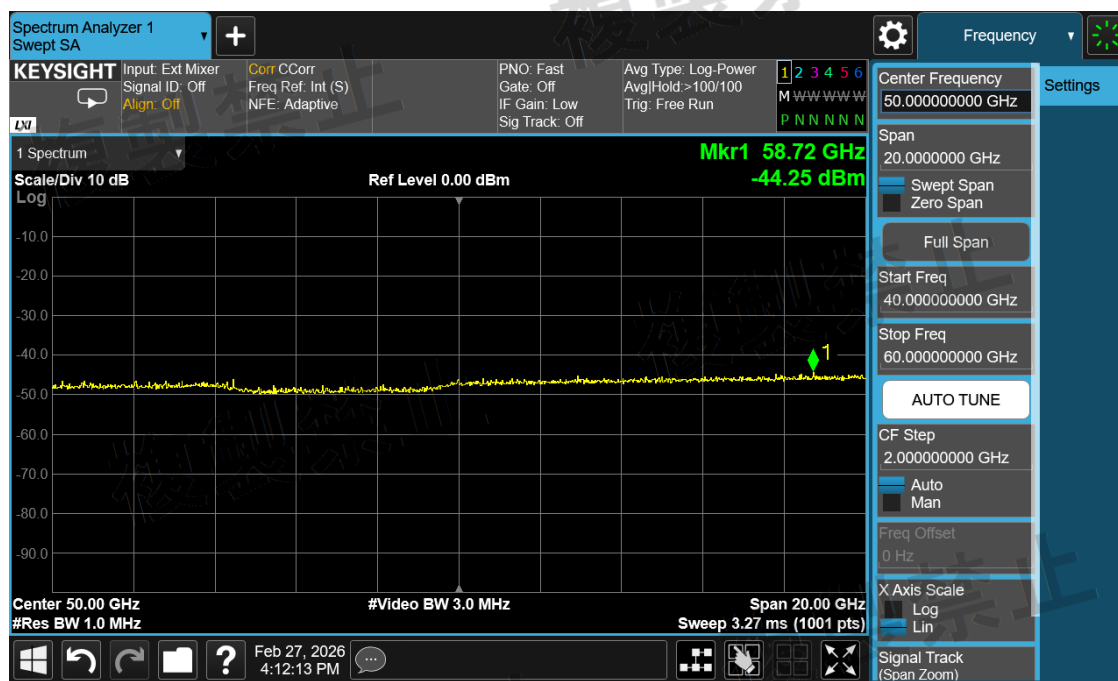
2. Measured Level = Reading + Factor

3. Margin = Limit - Measured Level

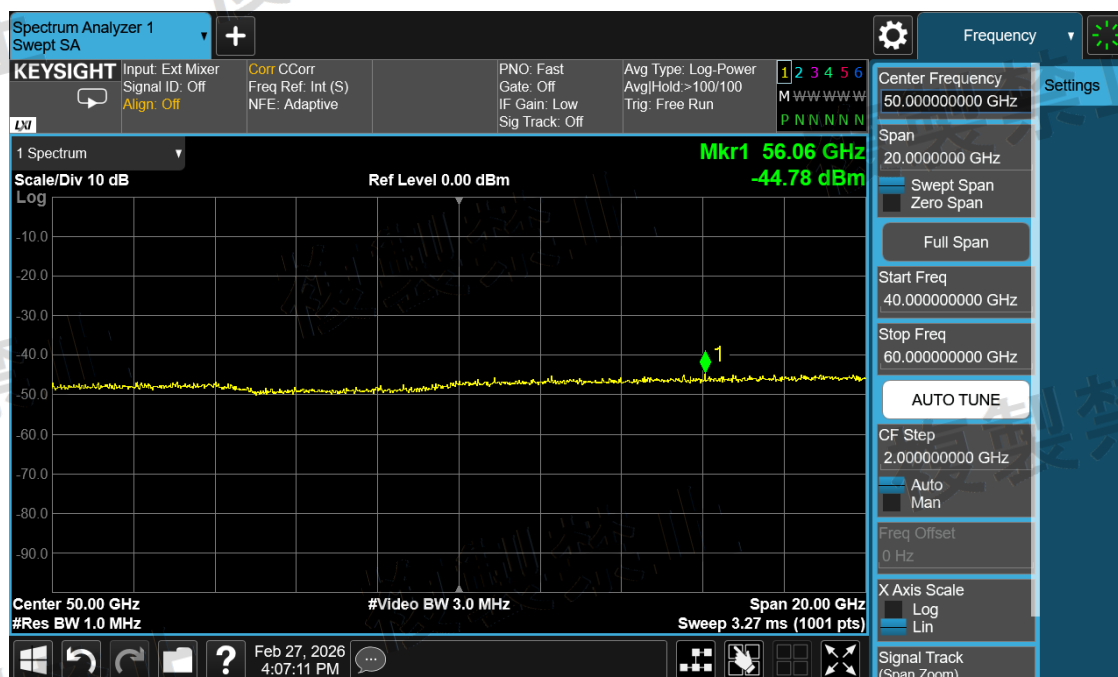
4000M-6000MHz

Test channel: L

Horizontal



Vertical



Test data

No.	Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	58720	-44.25	-26.02	-18.23	H	Pass
1*	56060	-44.48	-26.02	-18.46	V	Pass

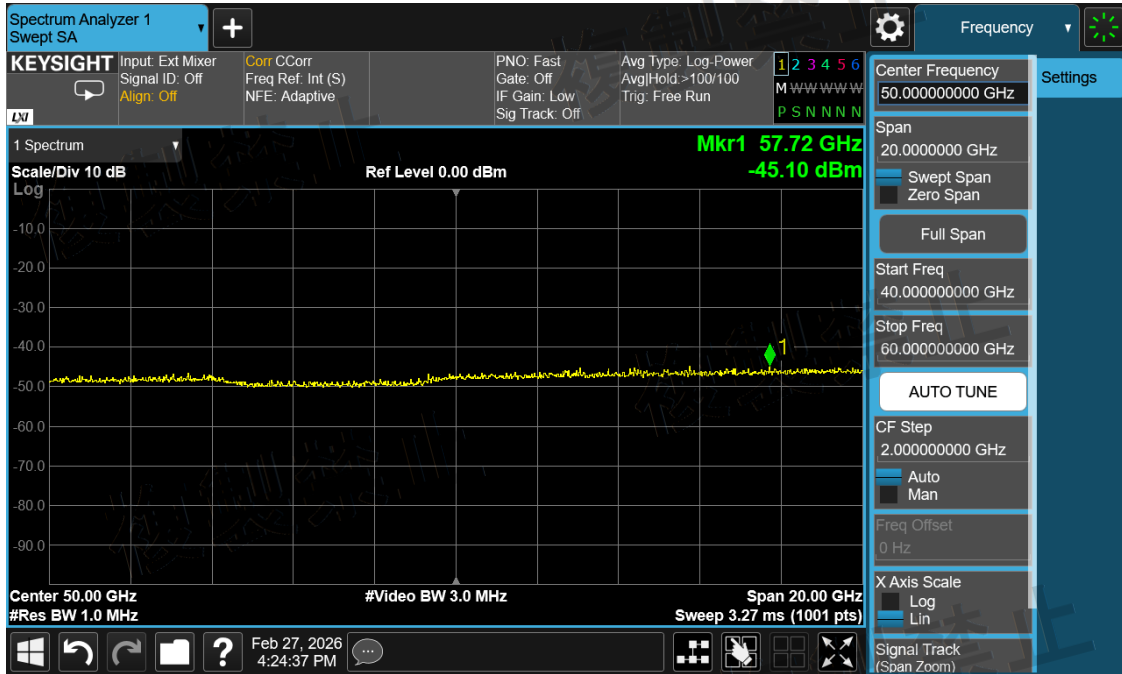
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Level = Reading + Factor

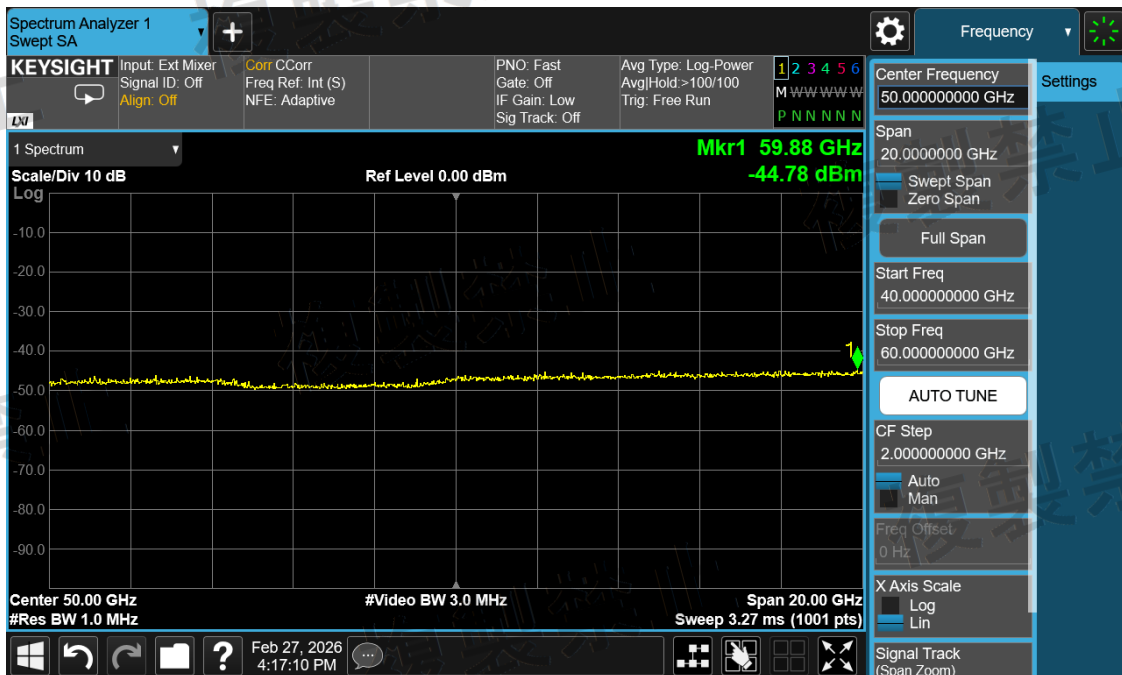
3. Margin = Limit - Measured Level

Test channel: M

Horizontal



Vertical



Test data

No.	Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	57720	-45.10	-26.02	-19.08	H	Pass
1*	59880	-44.78	-26.02	-18.76	V	Pass

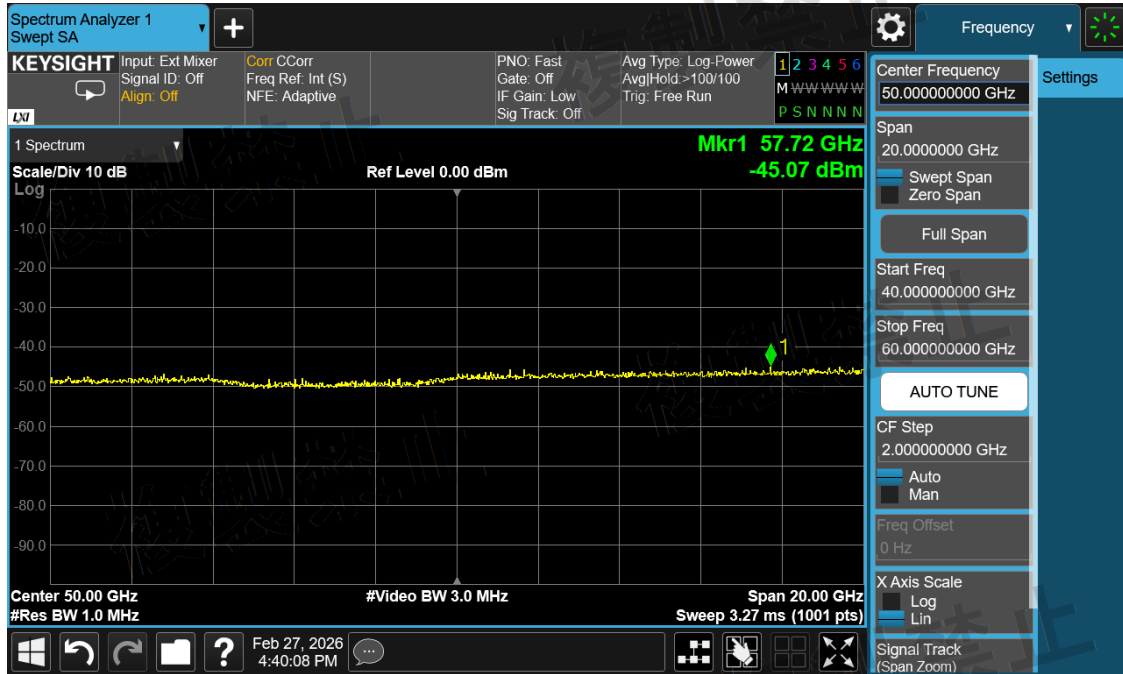
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Level = Reading + Factor

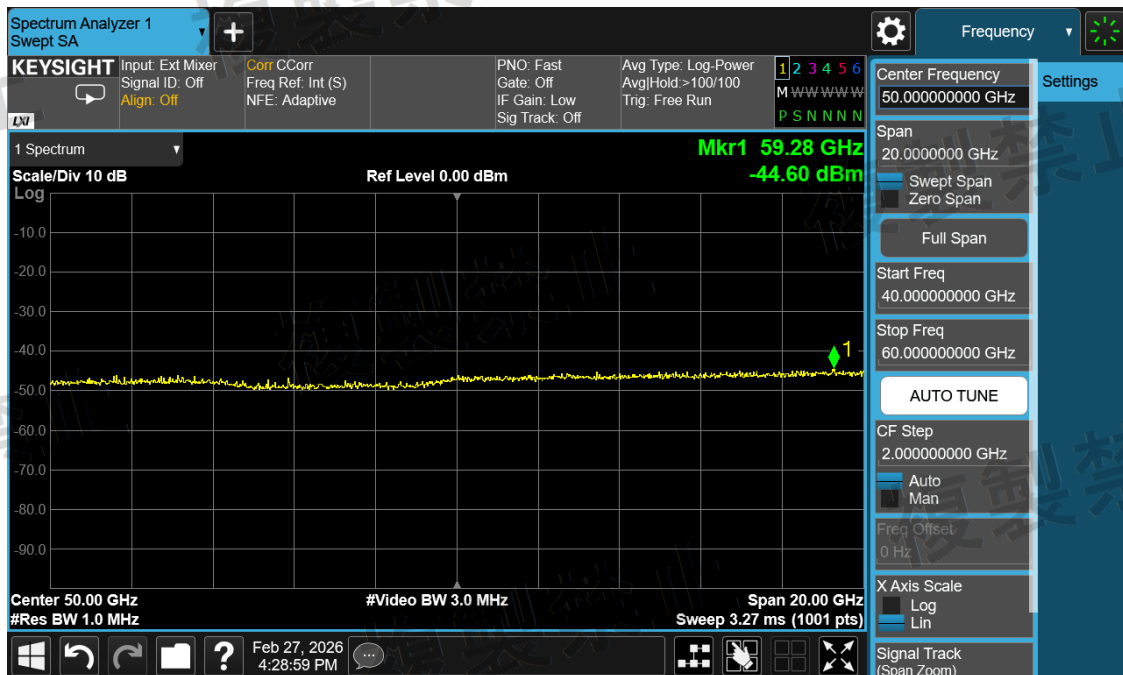
3. Margin = Limit - Measured Level

Test channel: H

Horizontal



Vertical



Test data

No.	Frequency (MHz)	Measured Level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	57720	-45.07	-26.02	-19.05	H	Pass
1*	59280	-44.60	-26.02	-18.58	V	Pass

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Level = Reading + Factor

3. Margin = Limit - Measured Level

8 Out Of Band Radiated Emission

Test result: Pass

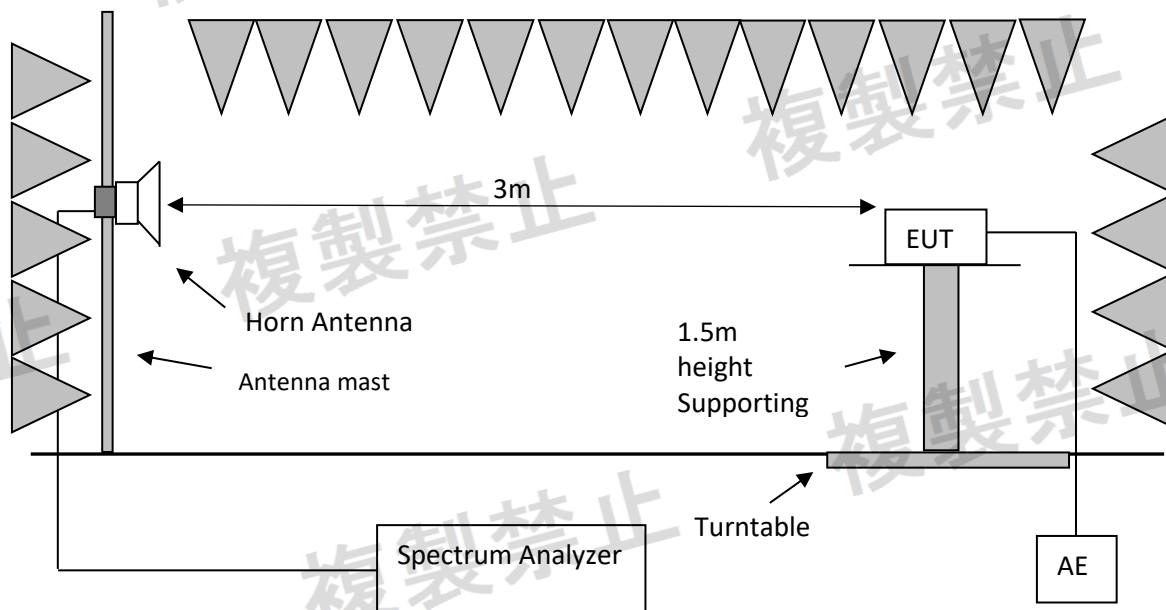
8.1 Limit

Item	Limits
Out Of Band Radiated Emission	2.5 μ W or less

8.2 Measurement Procedure

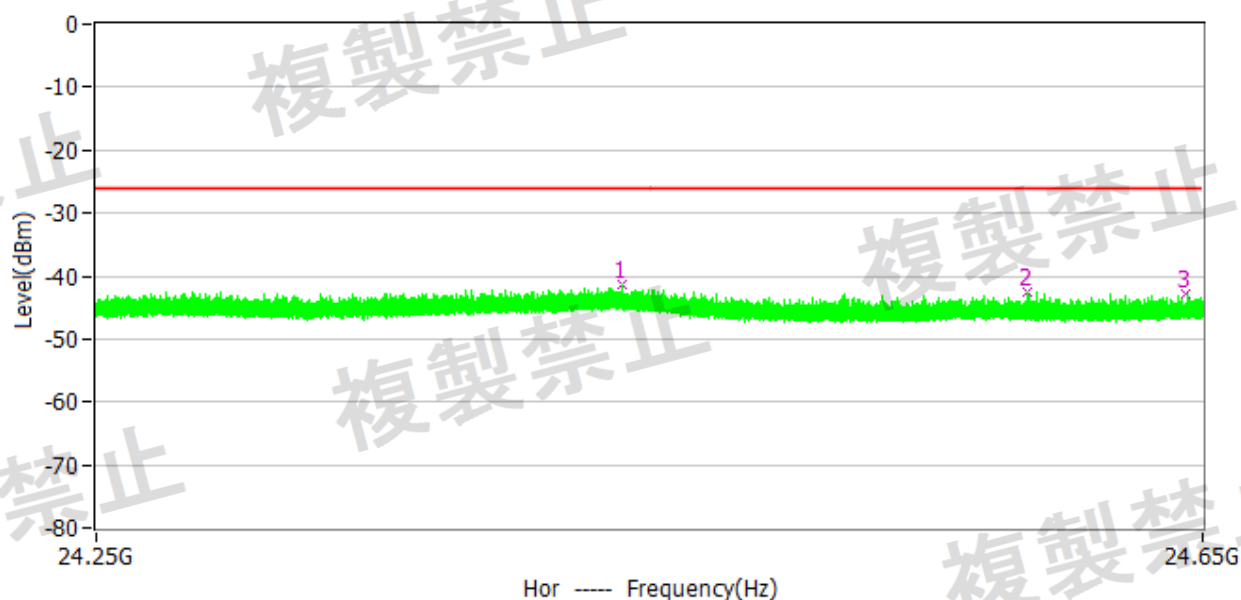
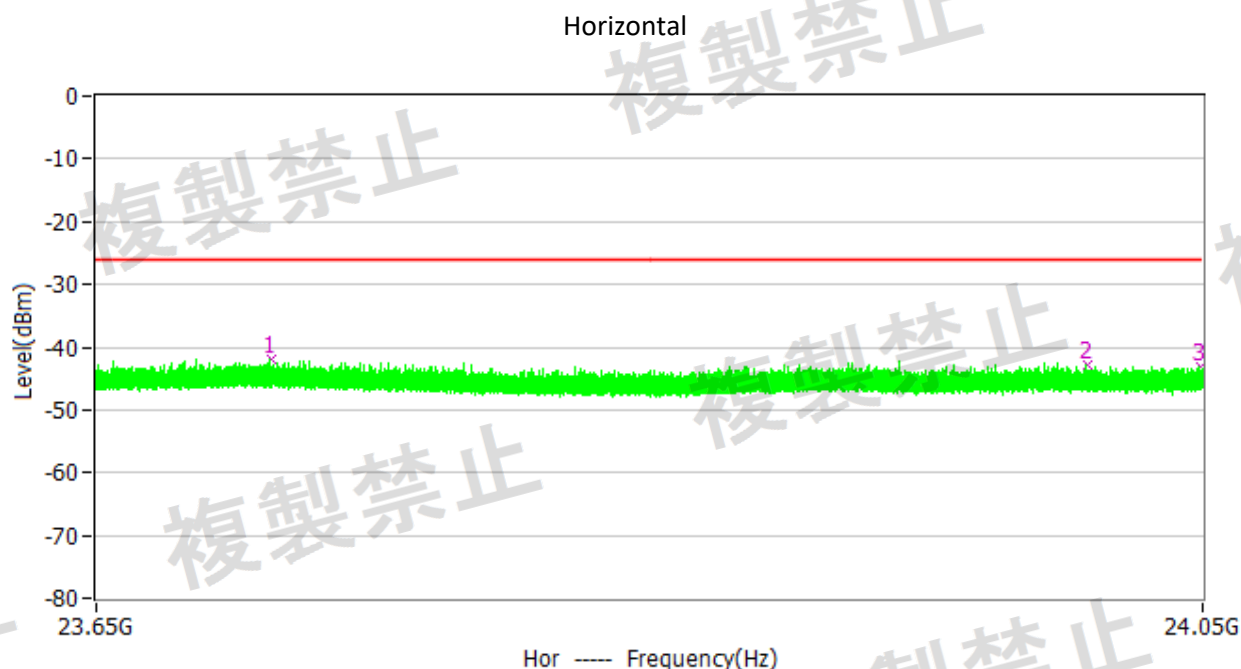
- (1) Set the EUT as transmitting the maximum power and fixed channel.
- (2) Set the Spectrum Analyzer as: RBW: 1MHz, VBW: 1MHz, Sweep time: Auto, Detect mode: Positive peak, Trace mode: Max hold to measure the spurious emission above 1GHz.

8.3 Test Configuration

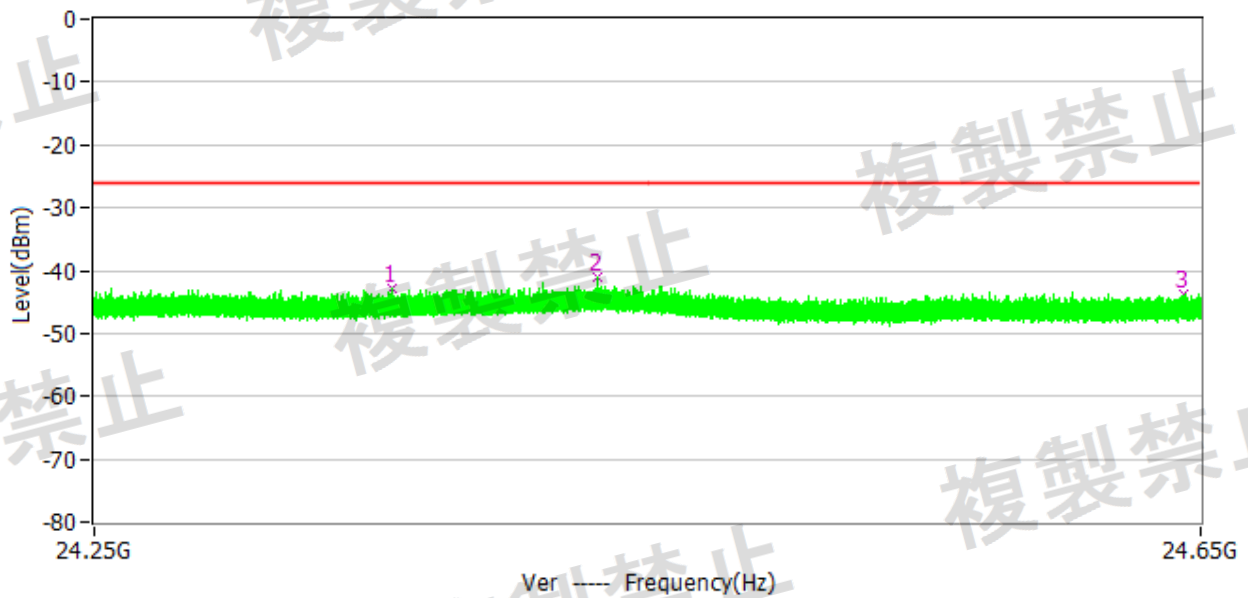
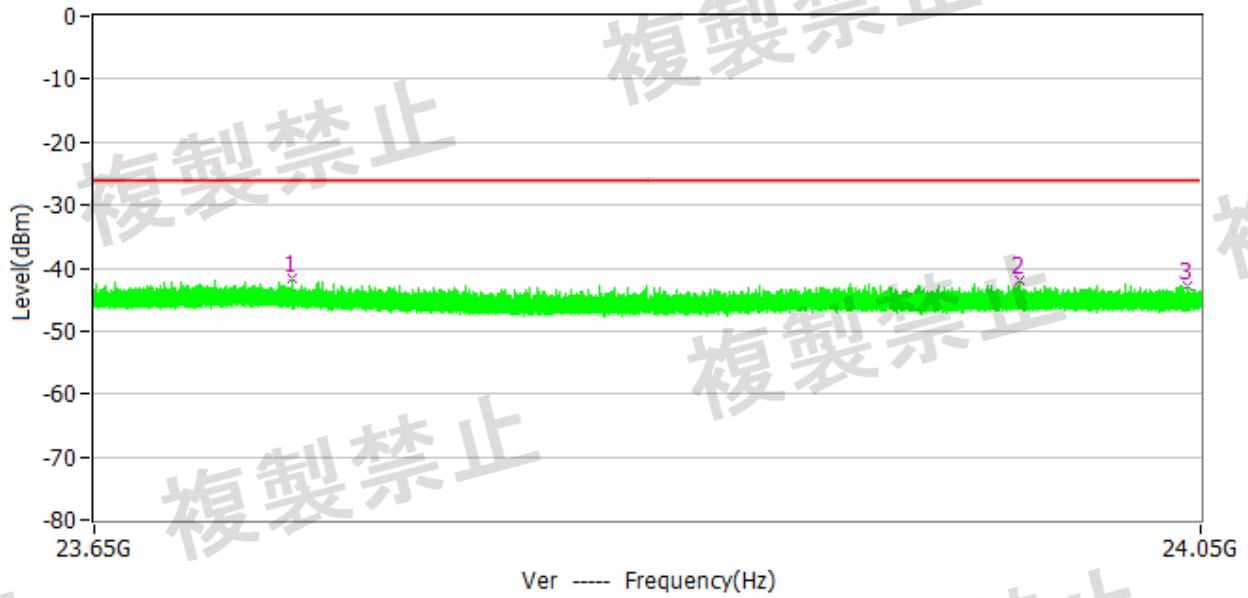


8.4 Test Results

Test channel: L



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	23713	1MHz	Peak	Max	-42.05	-88.86	-26.02	-16.03	H	Pass
2*	24008	1MHz	Peak	Max	-42.85	-87.76	-26.02	-16.83	H	Pass
3*	24049	1MHz	Peak	Max	-43.14	-87.96	-26.02	-17.12	H	Pass
1*	24440	1MHz	Peak	Max	-41.41	-89.90	-26.02	-15.39	H	Pass
2*	24586	1MHz	Peak	Max	-42.48	-89.74	-26.02	-16.46	H	Pass
3*	24644	1MHz	Peak	Max	-42.82	-89.43	-26.02	-16.80	H	Pass
1*	23721	1MHz	Peak	Max	-41.66	-88.84	-26.02	-15.64	V	Pass
2*	23984	1MHz	Peak	Max	-42.04	-87.78	-26.02	-16.02	V	Pass
3*	24045	1MHz	Peak	Max	-42.85	-87.94	-26.02	-16.83	V	Pass
1*	24357	1MHz	Peak	Max	-42.87	-89.48	-26.02	-16.85	V	Pass
2*	24431	1MHz	Peak	Max	-41.05	-89.85	-26.02	-15.03	V	Pass
3*	24644	1MHz	Peak	Max	-43.73	-89.43	-26.02	-17.71	V	Pass

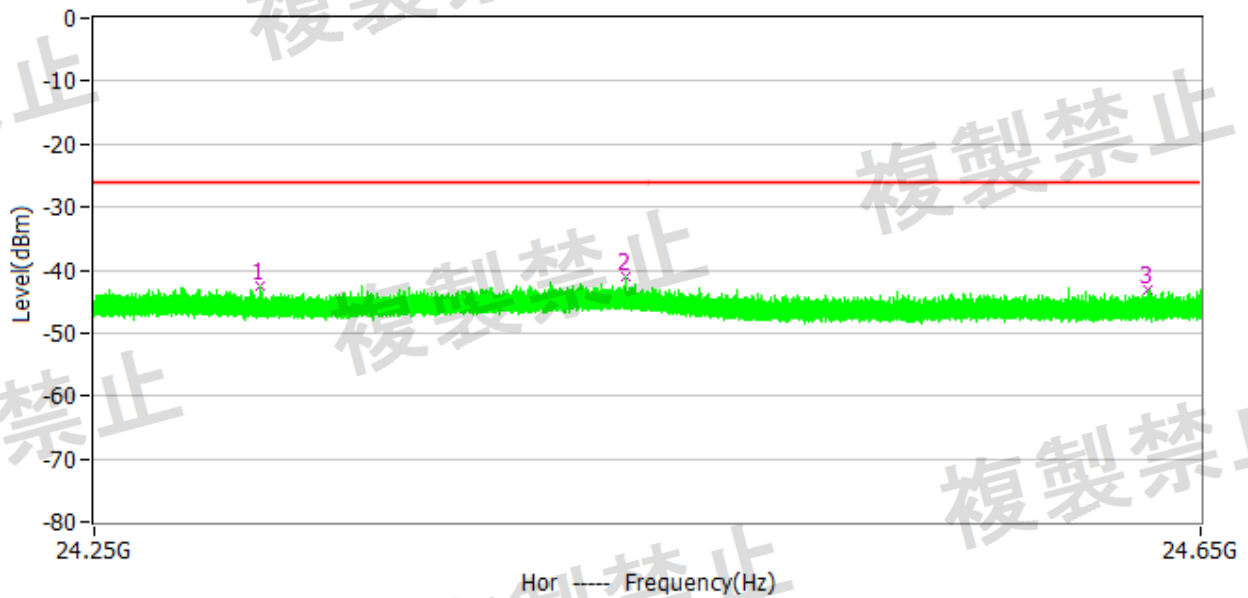
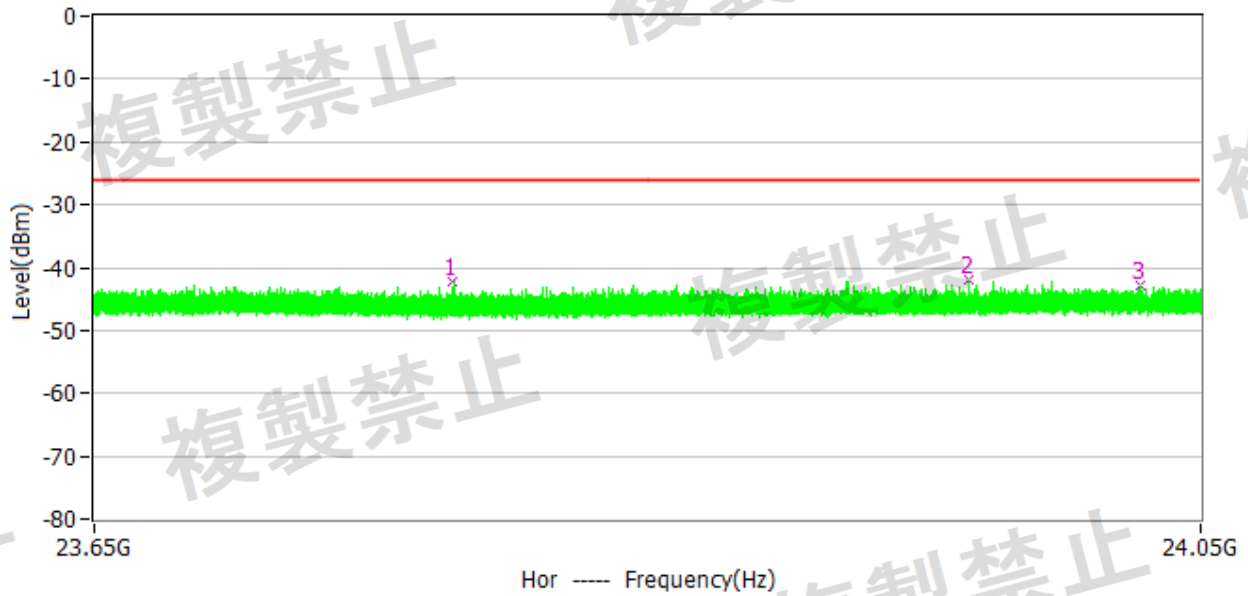
Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

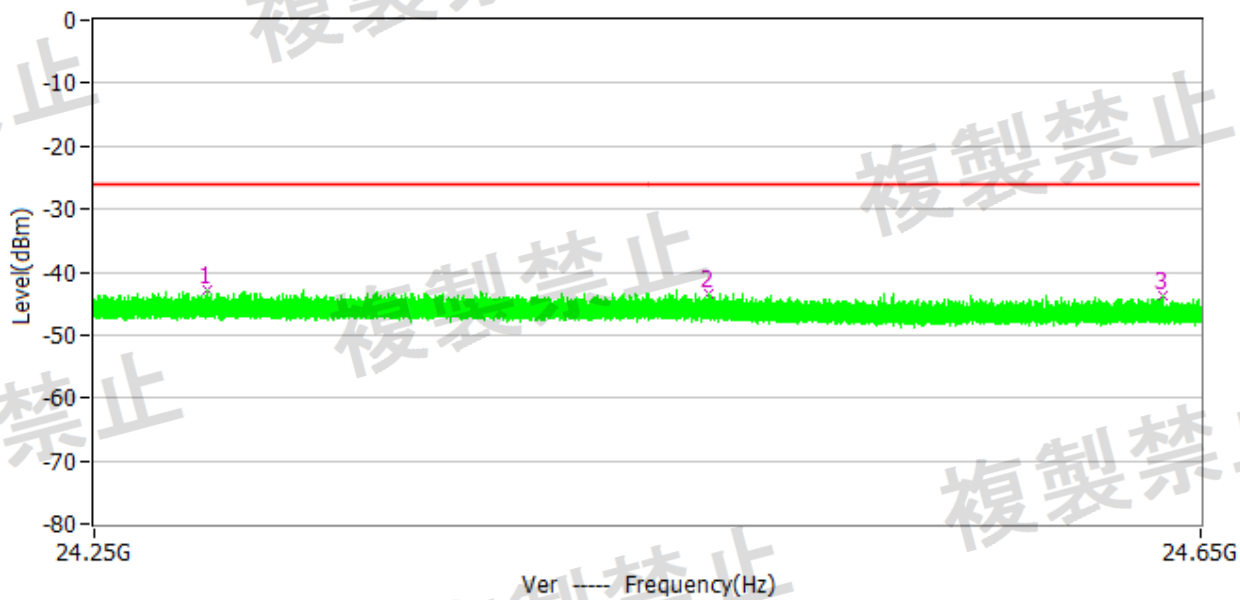
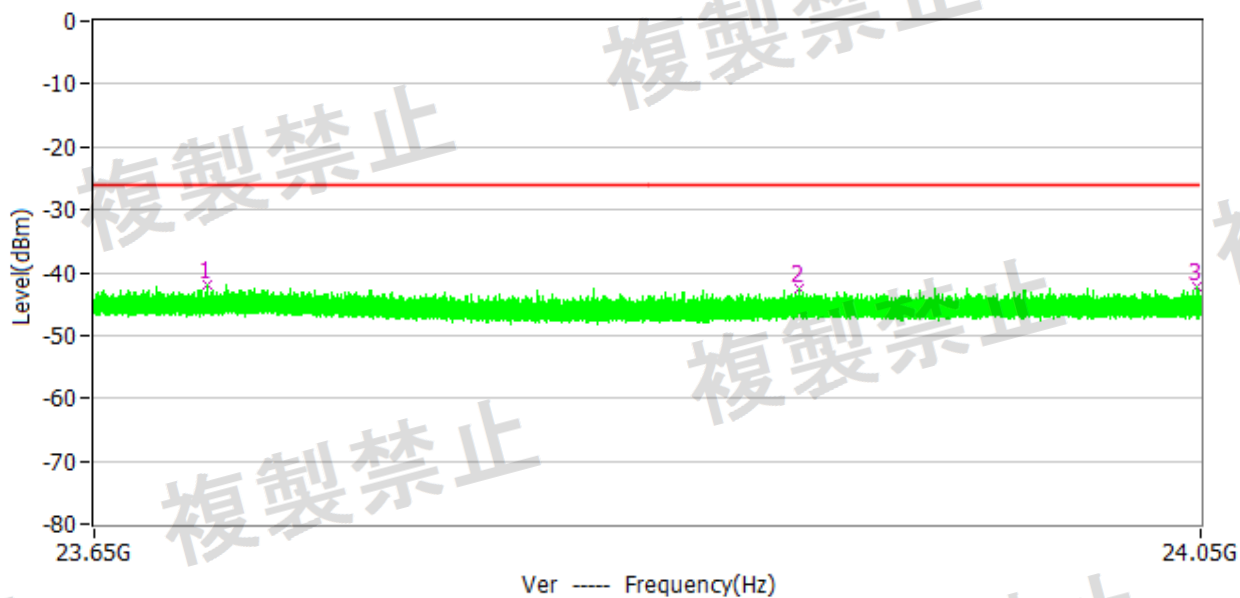
3. Margin = Limit - Measured Level

Test channel: M

Horizontal



Vertical



TEST REPORT

Test data

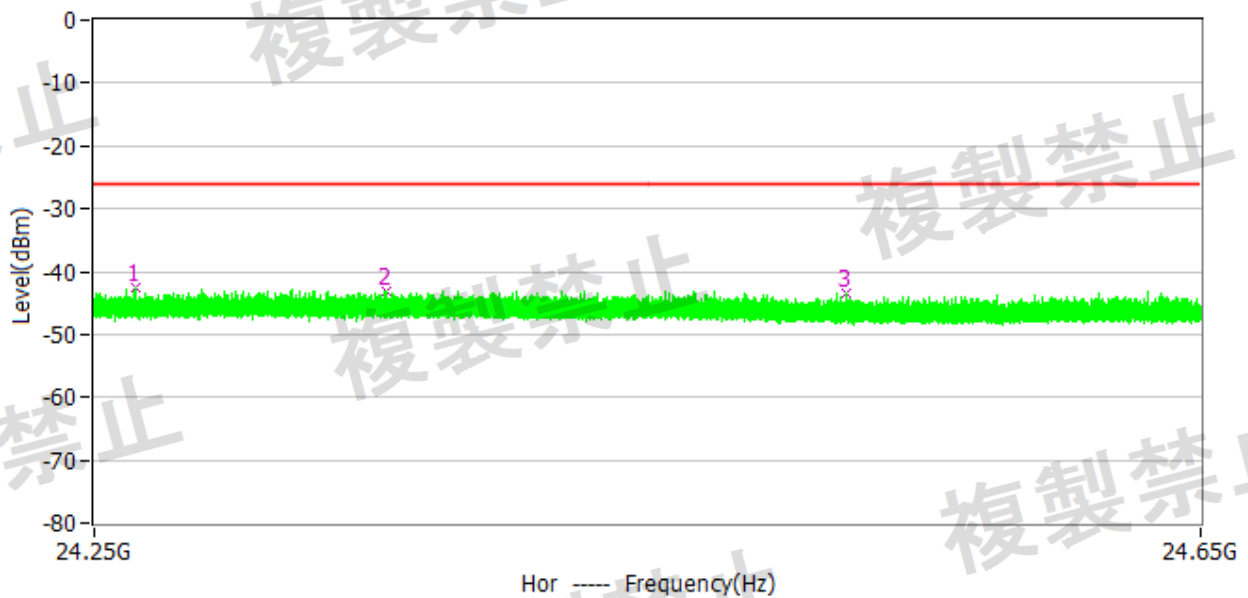
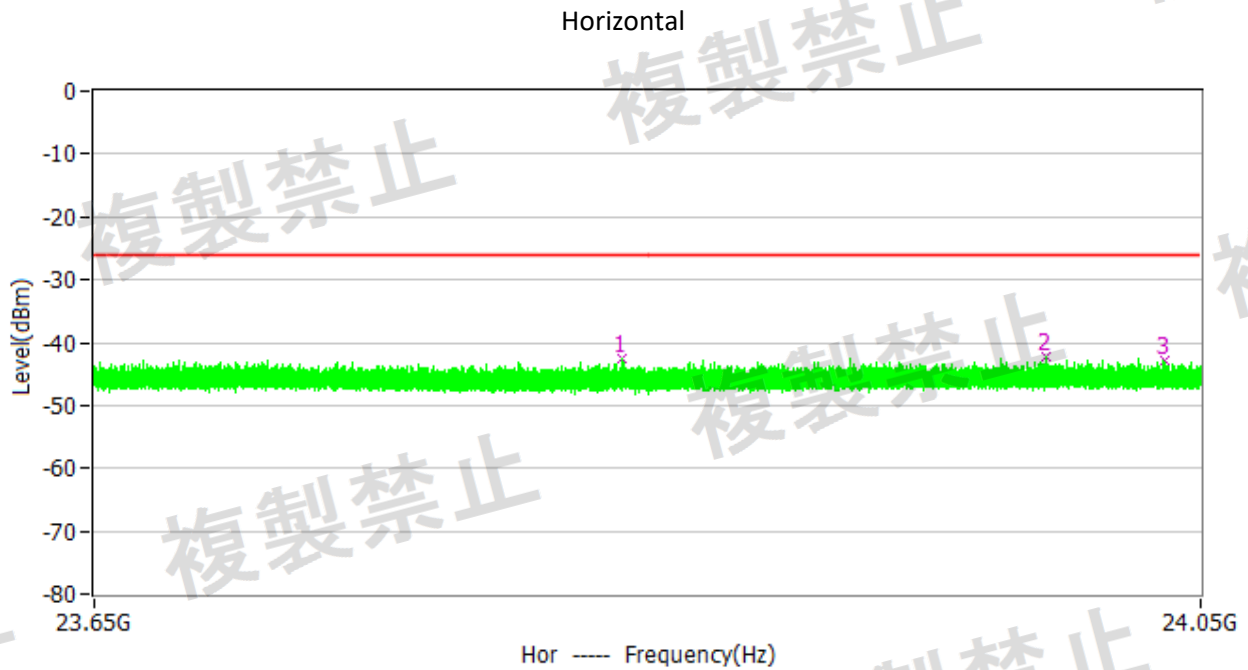
No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	23779	1MHz	Peak	Max	-42.22	-88.63	-26.02	-16.20	H	Pass
2*	23966	1MHz	Peak	Max	-42.00	-87.86	-26.02	-15.98	H	Pass
3*	24028	1MHz	Peak	Max	-42.77	-87.86	-26.02	-16.75	H	Pass
1*	24309	1MHz	Peak	Max	-42.55	-89.24	-26.02	-16.53	H	Pass
2*	24442	1MHz	Peak	Max	-41.12	-89.91	-26.02	-15.10	H	Pass
3*	24631	1MHz	Peak	Max	-43.19	-89.50	-26.02	-17.17	H	Pass
1*	23691	1MHz	Peak	Max	-41.89	-88.93	-26.02	-15.87	V	Pass
2*	23904	1MHz	Peak	Max	-42.68	-88.12	-26.02	-16.66	V	Pass
3*	24049	1MHz	Peak	Max	-42.37	-87.96	-26.02	-16.35	V	Pass
1*	24291	1MHz	Peak	Max	-42.82	-89.14	-26.02	-16.80	V	Pass
2*	24471	1MHz	Peak	Max	-43.36	-90.06	-26.02	-17.34	V	Pass
3*	24636	1MHz	Peak	Max	-43.82	-89.47	-26.02	-17.80	V	Pass

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

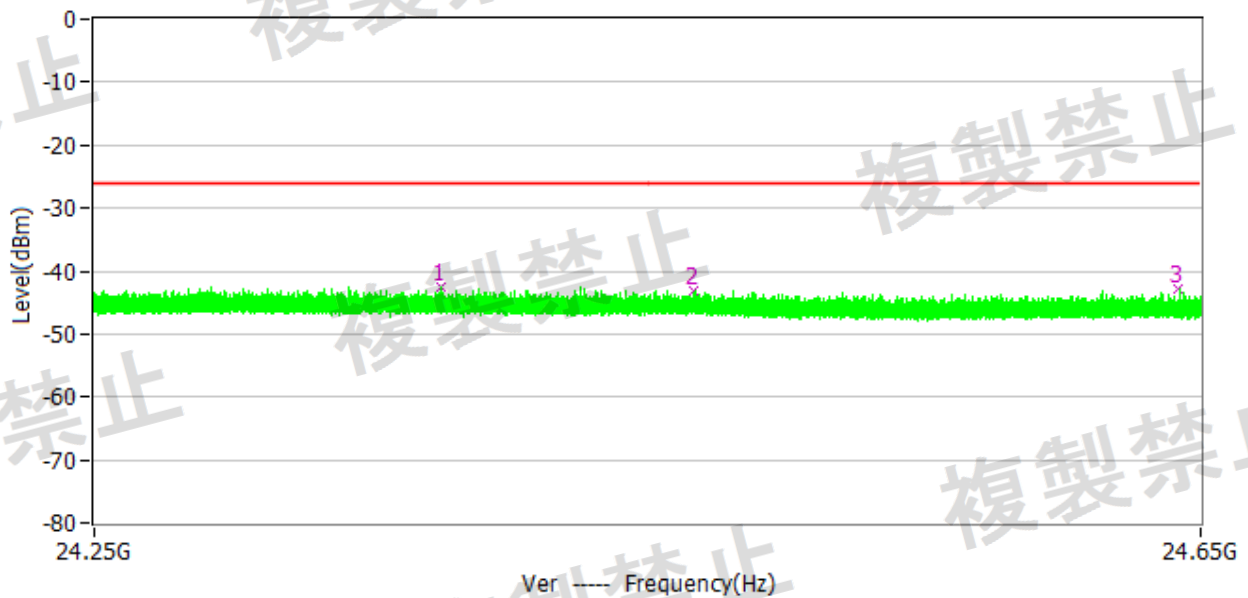
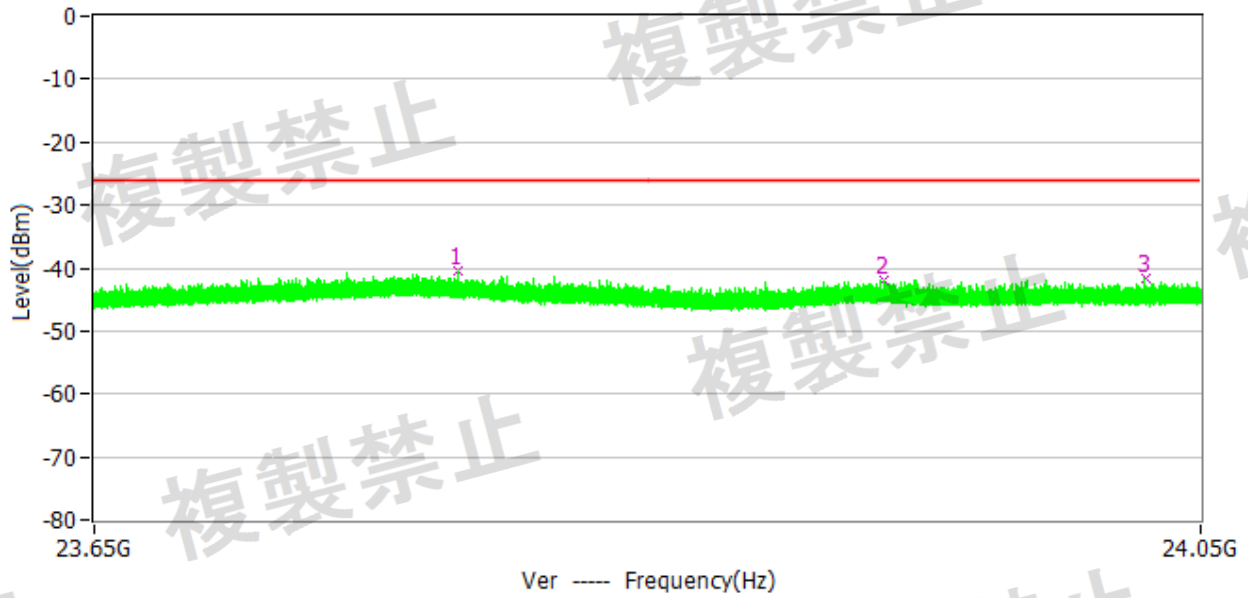
2. Measured Level = Reading + Factor

3. Margin = Limit - Measured Level

Test channel: H



Vertical



TEST REPORT

Test data

No.	Frequency (MHz)	RBW/VBW	Detector mode	Trace mode	Measured Level (dBm)	Factor dB	Limit (dBm)	Margin (dB)	Antenna Polarization	Pass/Fail
1*	23840	1MHz	Peak	Max	-42.48	-88.38	-26.02	-16.46	H	Pass
2*	23994	1MHz	Peak	Max	-42.16	-87.75	-26.02	-16.14	H	Pass
3*	24037	1MHz	Peak	Max	-42.91	-87.90	-26.02	-16.89	H	Pass
1*	24265	1MHz	Peak	Max	-42.59	-89.01	-26.02	-16.57	H	Pass
2*	24355	1MHz	Peak	Max	-43.18	-89.47	-26.02	-17.16	H	Pass
3*	24521	1MHz	Peak	Max	-43.48	-90.09	-26.02	-17.46	H	Pass
1*	23781	1MHz	Peak	Max	-40.57	-88.62	-26.02	-14.55	V	Pass
2*	23935	1MHz	Peak	Max	-41.97	-87.99	-26.02	-15.95	V	Pass
3*	24030	1MHz	Peak	Max	-41.77	-87.87	-26.02	-15.75	V	Pass
1*	24375	1MHz	Peak	Max	-42.40	-89.57	-26.02	-16.38	V	Pass
2*	24466	1MHz	Peak	Max	-43.13	-90.03	-26.02	-17.11	V	Pass
3*	24642	1MHz	Peak	Max	-42.82	-89.44	-26.02	-16.80	V	Pass

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz)+Air Loss, the value was added to Original Receiver Reading by the software automatically.

2. Measured Level = Reading + Factor

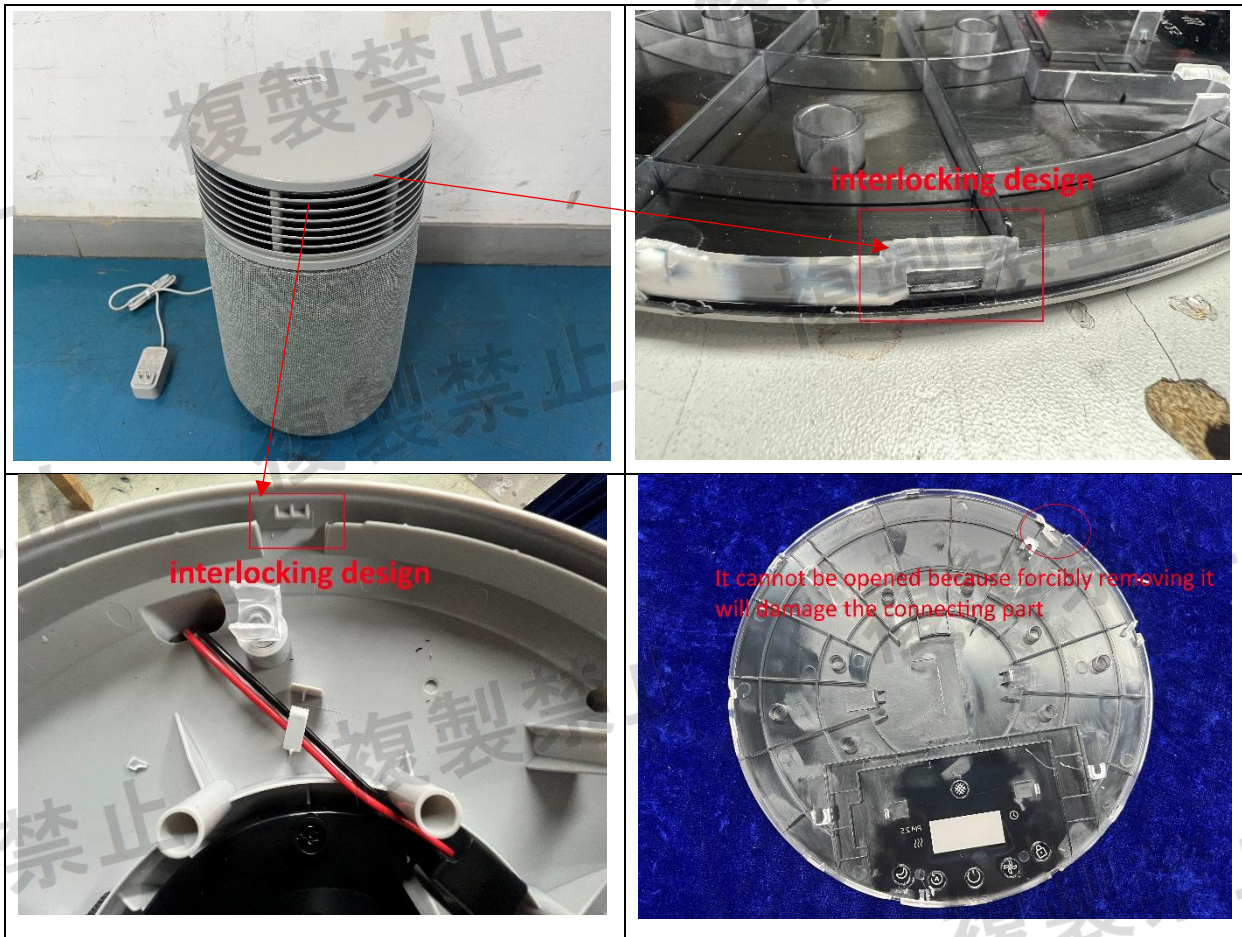
3. Margin = Limit - Measured Level

9 RF accessibility

The EUT shall be constructed in such a way that sensitive RF parts (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

Conclusion:

The surface of the equipment, except for the interface part, is completely sealed with plastic to prevent opening, the connection between the upper and lower shells is locked with interlocking design, and the upper and lower shells are sealed.



***** END *****