

TEST REPORT

Reference No...... : WTD26D02037204W003
Applicant..... : Alarm.com Incorporated
Address..... : 8281 Greensboro Drive, Suite 100, Tysons, Virginia, 22102 USA
Manufacturer..... : LITE-ON VIETNAM CO., LTD.
Address..... : No. 149, 10th Road, VSIP Hai Phong Township, Industrial and Service Park, Nam Trieu Ward, Hai Phong City, Vietnam.
Product..... : Alarm.com 4MP Indoor Wi-Fi Spotlight Camera
Model(s)..... : ADC-V530
Brand Name..... : ALARM.COM
Standards..... : Article 2 Paragraph 1 of Item 19,
MIC Notice No.88 Appendix No.43
Date of Receipt Sample.... : 2026-02-25
Date of Test..... : 2026-03-10 to 2026-03-30
Date of Issue..... : 2026-05-06
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD26D02037204W003	2026-02-25	2026-03-10 to 2026-03-30	2026-05-06	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:		Alarm.com 4MP Indoor Wi-Fi Spotlight Camera
Model(s):		ADC-V530
Model Description:		N/A
Hardware version:		0104
Software version:		v0.0.2.013
Radio type:		Bluetooth
Bluetooth	Version:	5.2
	Modulation:	GFSK
	Frequency range:	2402-2480MHz
	Output power:	ANT1: 3.00mW ANT2: 3.00mW
	Numbers of Ant.:	2
	Antenna installation:	FPCB Antenna
	Antenna gain:	ANT1: 2.62dBi ANT2: 2.70dBi
	Note: #: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.	

4.2 Details of E.U.T.

Power Supply Technical: 12V=1A

Adapter:

Model: WB-12G12R

Input: 100-240V~ 50-60Hz, 0.3A Max.

Output: 12.0V=1.0A 12.0W

Manufacturer: ASIAN POWER DEVICES INC.

4.3 Channel List

LE Frequencies List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	1	2404	2	2406	3	2408
4	2410	5	2412	6	2414	7	2416
8	2418	9	2420	10	2422	11	2424
12	2426	13	2428	14	2430	15	2432
16	2434	17	2436	18	2438	19	2440
20	2442	21	2444	22	2446	23	2448
24	2450	25	2452	26	2454	27	2456
28	2458	29	2460	30	2462	31	2464
32	2466	33	2468	34	2470	35	2472
36	2474	37	2476	38	2478	39	2480

4.4 General condition

Ambient Condition: 25.1 °C 51 %RH

4.4.1 Environmental condition of test site

Voltage fluctuation

A power supply with the rated voltage and also the rated voltage +10% shall be used. However when it was confirmed that input voltage variation at the radio unit (except power supply section) in the radio equipment to be tested is less than +1% against a variation of +10% at the input voltage from the external power supply to the radio equipment, the test may be done for the rated voltage only and when the radio equipment was designed so as to be operated in a specified voltage variation limit within +10%, and which is indicated in the installation specification with the upper and the lower limits, the test shall be done for the rated voltage and the specified upper and lower limits of voltage.

4.4.2 Test Mode

All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Have been confirmed the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1% when the power supply to the product varies at +/-10% by Manufacturer.

DC Input	RF_IC Input	Rate of fluctuation(%)
10.8V	3.3V	0.0
12.0V	3.3V	0.0
13.2V	3.3V	0.0

Modulation	Test mode	Low channel	Middle channel	Upper channel
GFSK(Normal)	Transmitting	2402MHz	2440MHz	2480MHz
GFSK(Normal)	Receiving	2402MHz	2440MHz	2480MHz

4.5 Test Equipments list

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2025-04-19	2026-04-18
2	Spectrum Analyzer	R&S	FSP30	100091	2025-04-19	2026-04-18
3	DC power supply	Agilent	E3640A	MY40006693	2025-04-19	2026-04-18
4	Temperature & Humidity Chamber	Agilent	TH-1P-B	WIT-05121302	2025-11-14	2026-11-13
5	Temperature/ Humidity Meter	Agilent	ZC1-2	TR7-TH	2025-05-29	2026-05-28
6	ESG VECTOR SIGNAL GENERATOR	Malaysia Keysight	E4438C	MY45092536	2025-04-19	2026-04-18
7.	Power Sensor	TST	TSCB562R2	-	2025-12-05	2026-12-04
8.	Universal Radio Communication Tester	R&S	CMW 500	127818	2025-04-19	2026-04-18
9.	Attenuator	ShangHai HuaXiang	TS2-6dB-1G-A	20070707	2026-01-08	2027-01-07
10.	Power Splitter	Mini-Circuits	ZNPD1-50-S+	SUU2751527	2026-01-08	2027-01-07

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

1. All Equipments Calibration use the calibration method (c).

2. All Equipments Calibration in GUANG ZHOU GRG METROLOGY&TEST CO., LTD./ No.163.Pingyun Rd, West of HuangPu Ave. Guangzhou, Guangdong, China.

3. Regarding the measuring device, Article 24-2, Paragraph 4 of the Radio Law.

TST Test software

Software name	TST-301
Software version	V2.0

4.6 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-7}$ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7 dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor: k=2	

5 Test Summary

Test Items	Result
Transmitting equipment	
Antenna Power	PASS
Tolerances for Antenna Power	PASS
Frequency Tolerance	PASS
Transmission Rate	N/A
Occupied Frequency Bandwidth	PASS
Spread Bandwidth	N/A
Process Gain	N/A
Number of Carriers	N/A
Dwell Time	N/A
Spurious emission intensity	PASS
Half-power beam width	Note1
Receiving equipment	
Secondary Radiated Emissions	PASS
Controlling equipment	
Interference prevention function	PASS
N/A is an abbreviation for Not Applicable. Note1 means the max EIRP 7.56dBm (antenna power dBm + antenna gain dBi) that is less than 12.14dBm, the test is not applicable.	

6 Measurements of Transmitting Equipment

6.1 Antenna Power and Antenna Power Tolerances

6.1.1 Test Requirement

Article 2, Paragraph 1, Item (19).

6.1.2 Limit

a. The antenna power of a transmitting equipment (with a frequency band of 2,427 - 2,470.75 MHz, for spread spectrum systems using FH systems, hybrid systems of DS and FH, or hybrid systems of FH and OFDM) shall be such that the mean power within a bandwidth of 1 MHz is 3 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.

b. The antenna power of a transmitting equipment using a spread spectrum system other than any of those in “a” and the OFDM system shall be such that the mean power within a bandwidth of 1 MHz is 10 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.

c. The antenna power of a transmitting equipment using systems other than any of those in “a” or “b” shall be 10 mW or less.

Upper limit of the tolerance for antenna power shall be 20%.

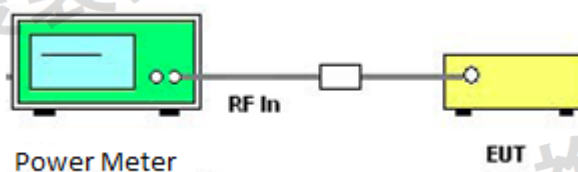
6.1.3 Measuring Instruments and setting

Please refer to section 4 in this report. The following table is the setting of the spectrum.

6.1.4 Test Procedures

1. Measure the power with the power meter.
2. Record the reading on the power meter as antenna output power.

6.1.5 Test Setup Layout



6.1.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.1.7 Test Result

ANT1:

Modulation	Channel	Average Burst Power(dBm)	Average Burst Power(mW)	Declared Antenna Power (mW)	Average Burst Power limit(mW)	Tolerance
						(%)
GFSK(LE 1M)	Low	4.64	2.911	3.00	10	-2.97
	Middle	4.25	2.662	3.00	10	-11.27
	High	4.75	2.987	3.00	10	-0.43
GFSK(LE 2M)	Low	4.58	2.874	3.00	10	-4.20
	Middle	3.86	2.433	3.00	10	-18.90
	High	4.43	2.771	3.00	10	-7.63

ANT2:

Modulation	Channel	Average Burst Power(dBm)	Average Burst Power(mW)	Declared Antenna Power (mW)	Average Burst Power limit(mW)	Tolerance
						(%)
GFSK(LE 1M)	Low	4.63	2.907	3.00	10	-3.10
	Middle	4.49	2.815	3.00	10	-6.17
	High	4.80	3.021	3.00	10	+0.70
GFSK(LE 2M)	Low	4.63	2.907	3.00	10	-3.10
	Middle	3.90	2.454	3.00	10	-18.20
	High	4.86	3.064	3.00	10	+2.13

Note:

1. The ANT1 max EIRP 7.37dBm (antenna power dBm + antenna gain dBi) that is less than 12.14dBm.
2. The ANT2 max EIRP 7.56dBm (antenna power dBm + antenna gain dBi) that is less than 12.14dBm.

6.2 Frequency Tolerance

6.2.1 Test Requirement

Article 2, Paragraph 1, Item (19).

6.2.2 Limit

According to Article 2-1, Clause 3.2 (4), the Tolerance of frequency: $\pm 50 \times 10^{-6}$.

6.2.3 Measuring Instruments and setting

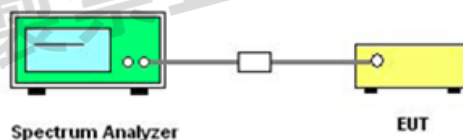
Please refer to section 4 in this report. The following table is the setting of the spectrum.

Spectrum Parameter	Setting
Span Frequency	500 KHz
RB/VB	10 kHz / 10 kHz

6.2.4 Test Procedures

- 1 Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm)
- 2 Setting of SA is following as: RB:10kHz / VB:10kHz / SPAN: 500KHz
- 3 Center Frequency: The center frequency of testing for EUT
- 4 Sweep time: Auto
- 5 Detect mode: Positive peak
- 6 EUT have transmitted absence of modulation signal and fixed channelize. f is using the mark cursor to mark the peak frequency value, f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6 \text{ ppm}$ and the limit is less than $\pm 50 \text{ ppm}$

6.2.5 Test Setup Layout



6.2.6 Test Deviation

There is no deviation with the original standard.

6.2.7 EUT Operation during Test

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

6.2.8 Test Result

ANT1:

Mode	Channel(MHz)	Result (MHz)	Tolerance (kHz)	Tolerance (ppm)	Limit
Non-modulation of LE	2402	2402.023	+23.0	+9.58	±50
	2440	2440.016	+16.0	+6.56	±50
	2480	2480.011	+11.0	+4.44	±50

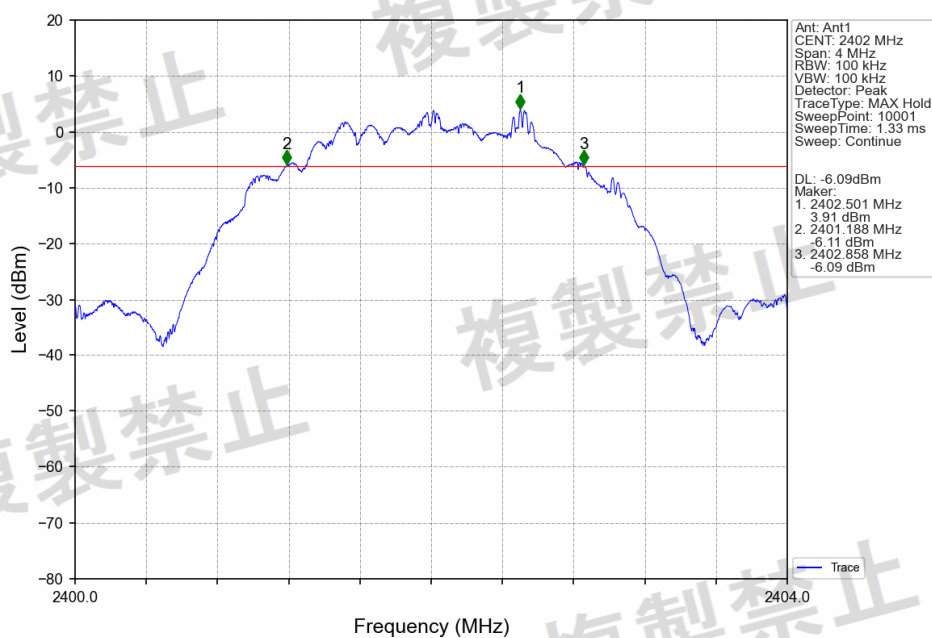
ANT2:

Mode	Channel(MHz)	Result (MHz)	Tolerance (kHz)	Tolerance (ppm)	Limit
Non-modulation of LE	2402	2402.021	+21.0	+8.74	±50
	2440	2440.016	+16.0	+6.56	±50
	2480	2480.009	+9.0	+3.63	±50

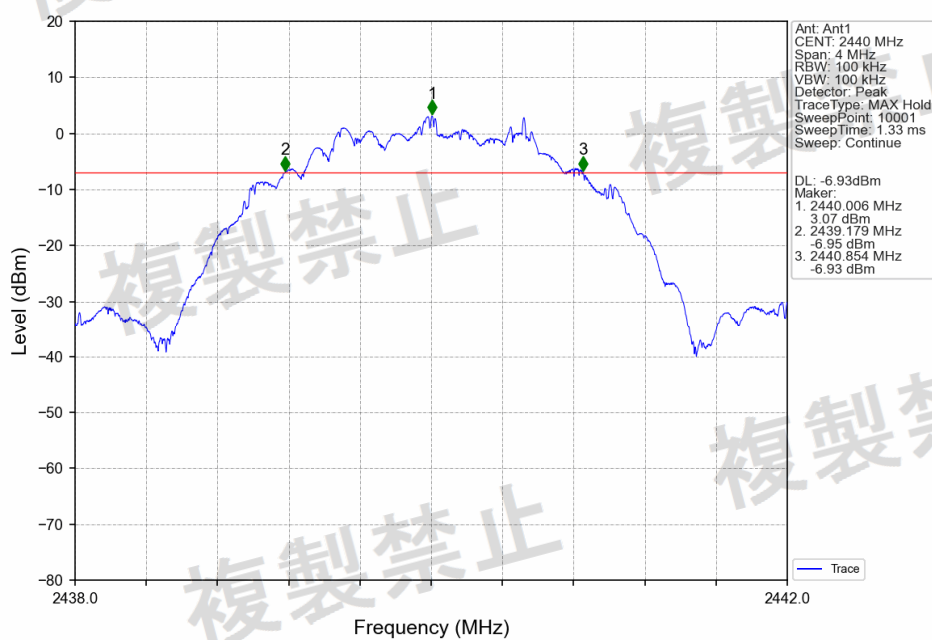
Test Plots

ANT1 GFSK(LE)

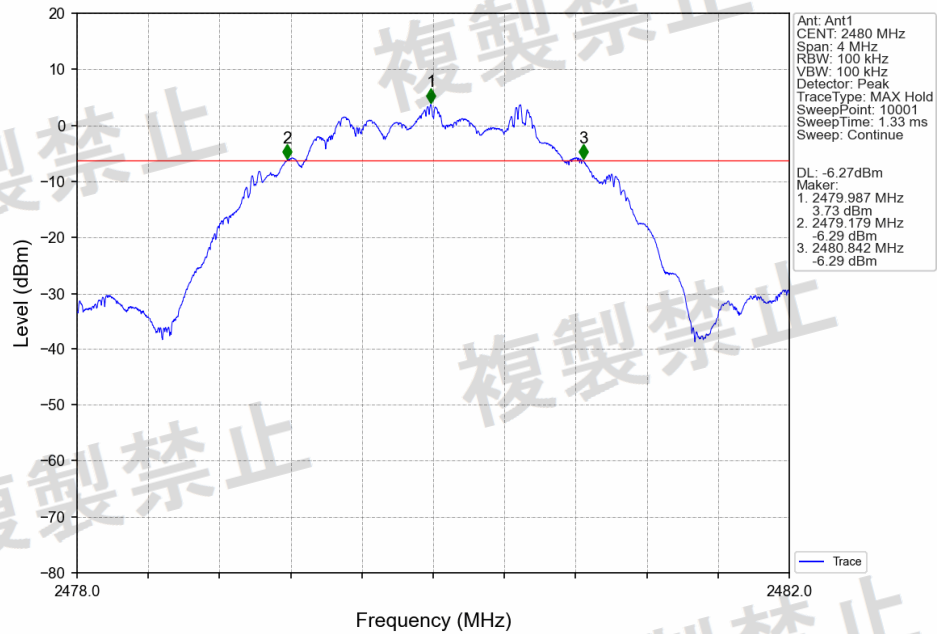
Channel 2402MHz



Channel 2440MHz

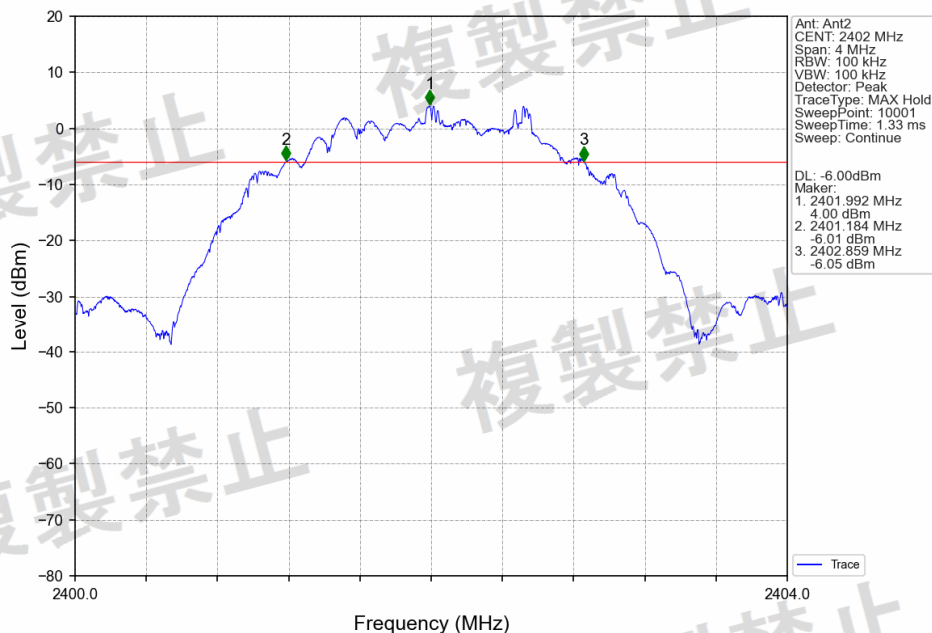


Channel 2480MHz

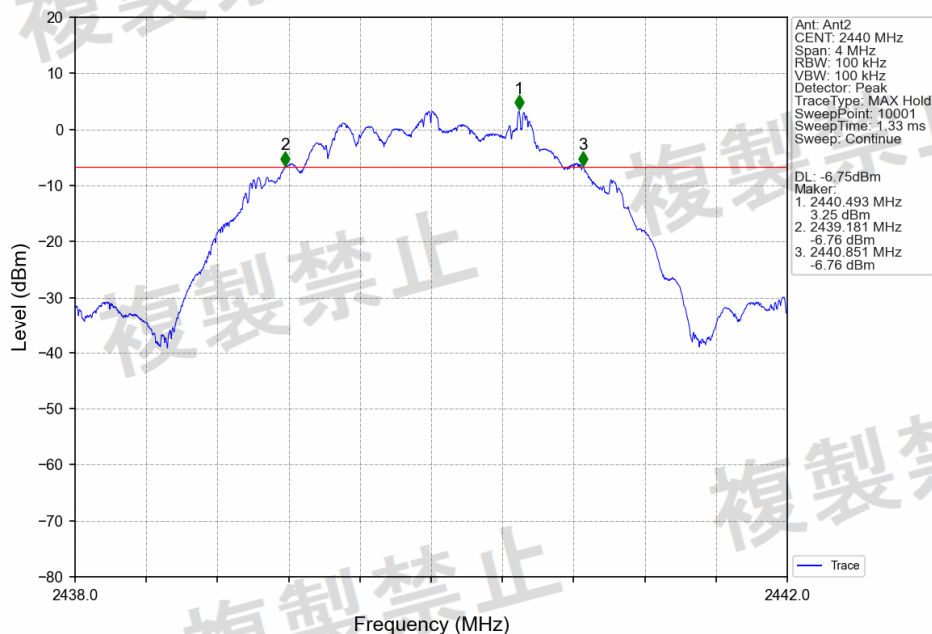


ANT2 GFSK(LE)

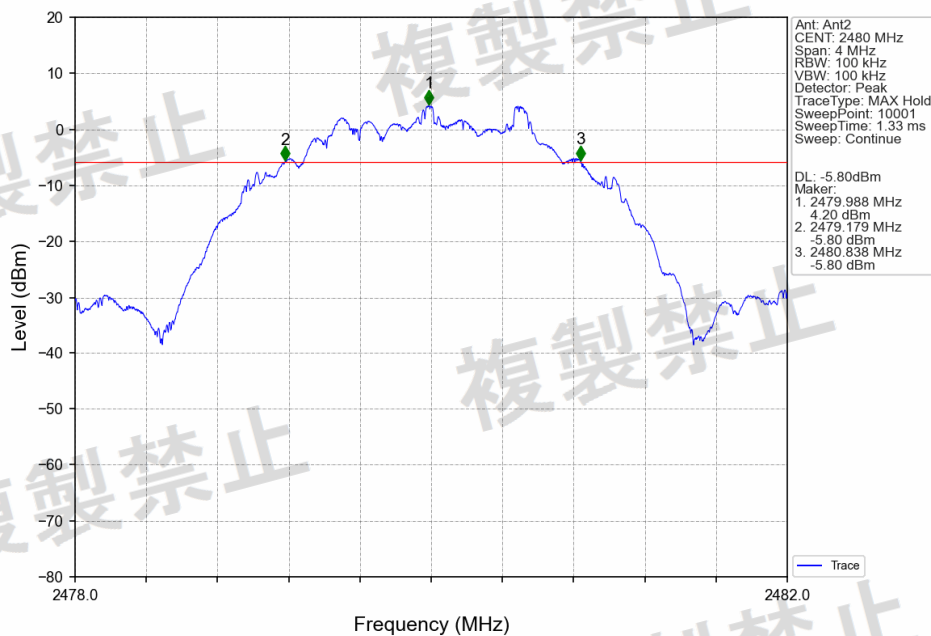
Channel 2402MHz



Channel 2440MHz



Channel 2480MHz



6.3 Occupied Frequency Bandwidth

6.3.1 Test Requirement

Article 2, Paragraph 1, Item (19).

6.3.2 Limit

According to Article 2-1, permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

6.3.3 Measuring Instruments and setting

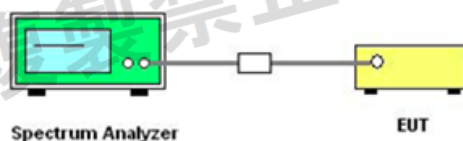
Please refer to section 4 in this report. The following table is the setting of the spectrum.

Spectrum Parameter	Setting
Span Frequency	2 to 3.5 times the limit
RB/VB	10 kHz

6.3.4 Test Procedures

- 1 Setting of SA is following as:
RB/VB: 10kHz
SPAN: 2 to 3.5 times the limit
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 (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).

6.3.5 Test Setup Layout



6.3.6 Test Deviation

There is no deviation with the original standard.

6.3.7 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.3.8 Test Result

ANT1:

Modulation	Channel	Occupied Frequency Bandwidth (MHz)	Limit (MHz)
GFSK(LE 1M)	Low	1.325	< 26
	Middle	1.325	< 26
	High	1.320	< 26
GFSK(LE 2M)	Low	2.173	< 26
	Middle	2.166	< 26
	High	2.163	< 26

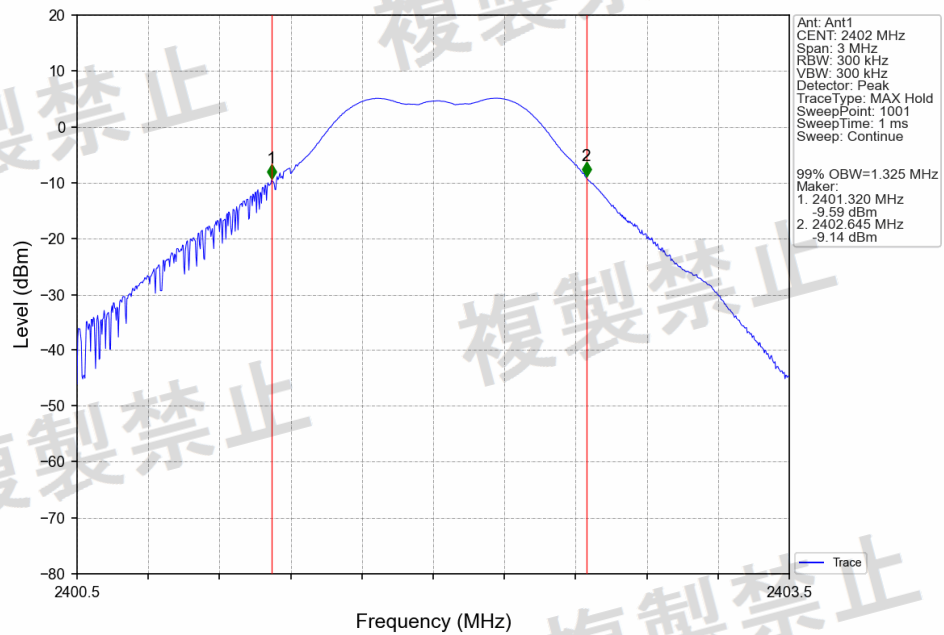
ANT2:

Modulation	Channel	Occupied Frequency Bandwidth (MHz)	Limit (MHz)
GFSK(LE 1M)	Low	1.327	< 26
	Middle	1.322	< 26
	High	1.317	< 26
GFSK(LE 2M)	Low	2.171	< 26
	Middle	2.164	< 26
	High	2.165	< 26

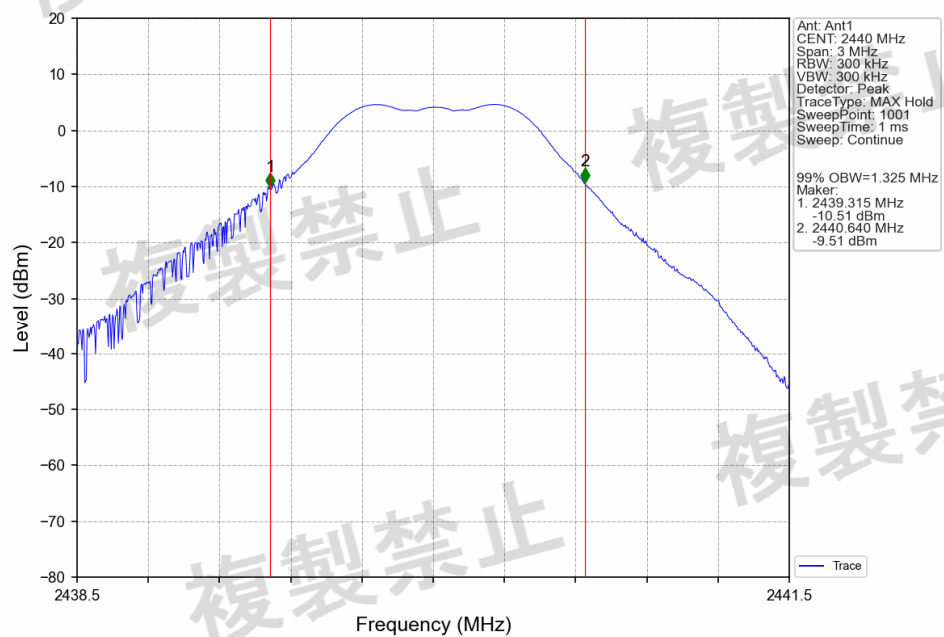
Test Plots

ANT1 GFSK(LE 1M)

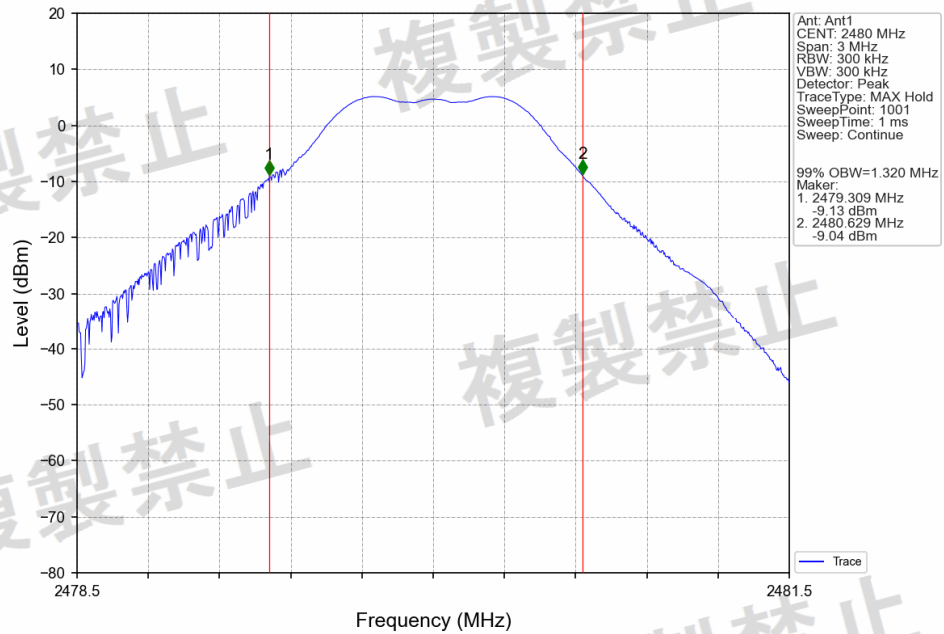
Channel 2402MHz



Channel 2440MHz

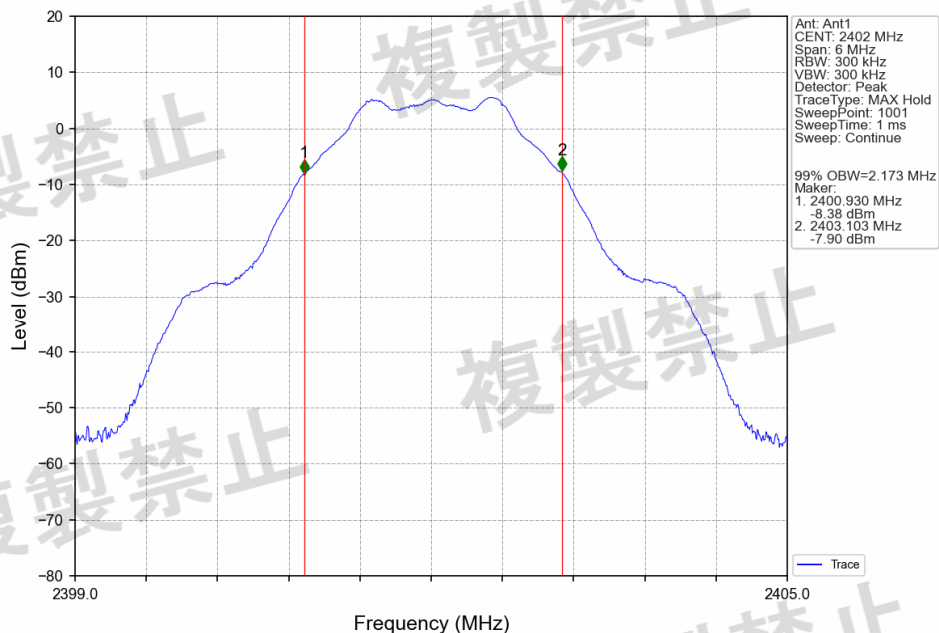


Channel 2480MHz

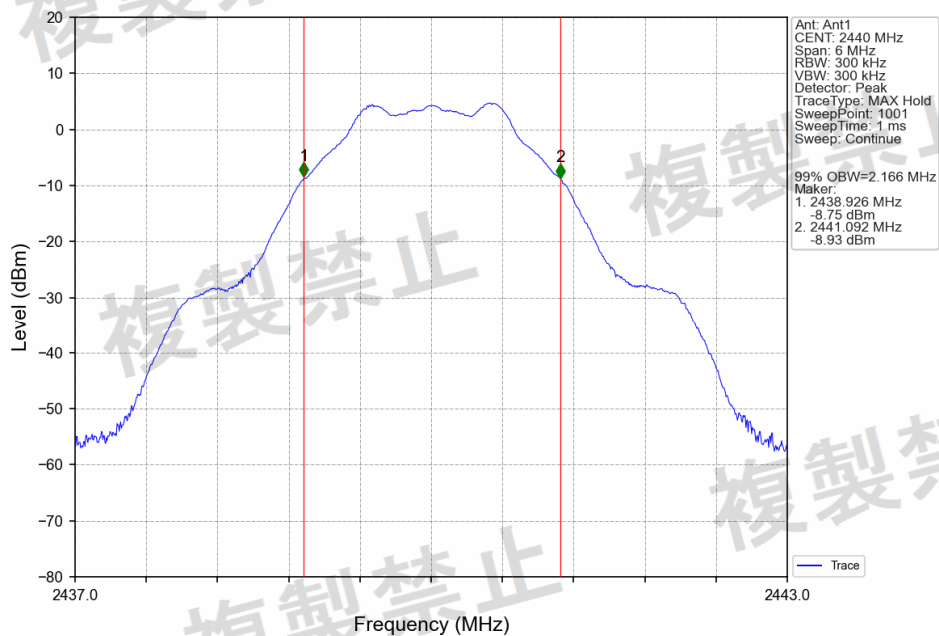


ANT1 GFSK(LE 2M)

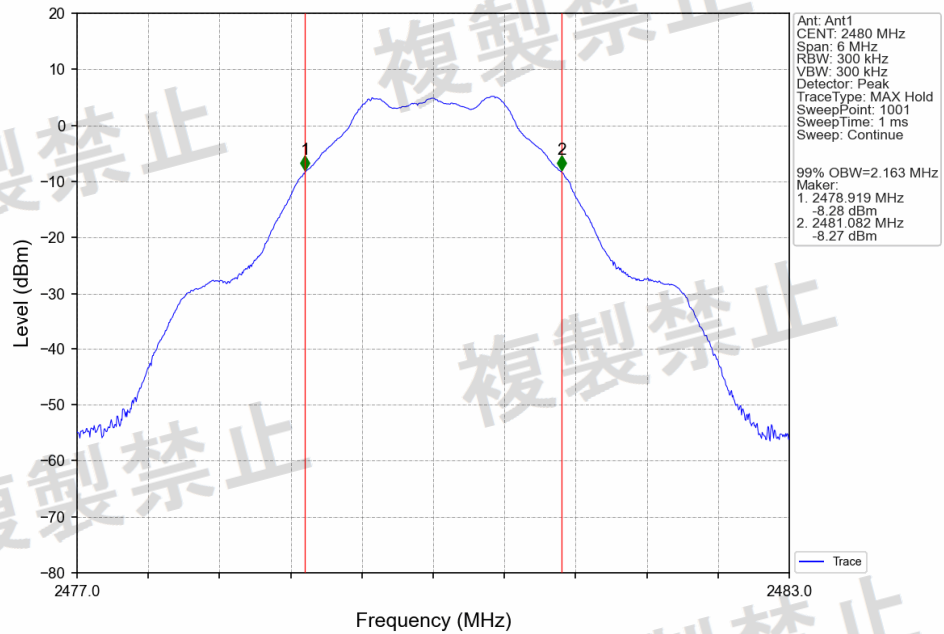
Channel 2402MHz



Channel 2440MHz

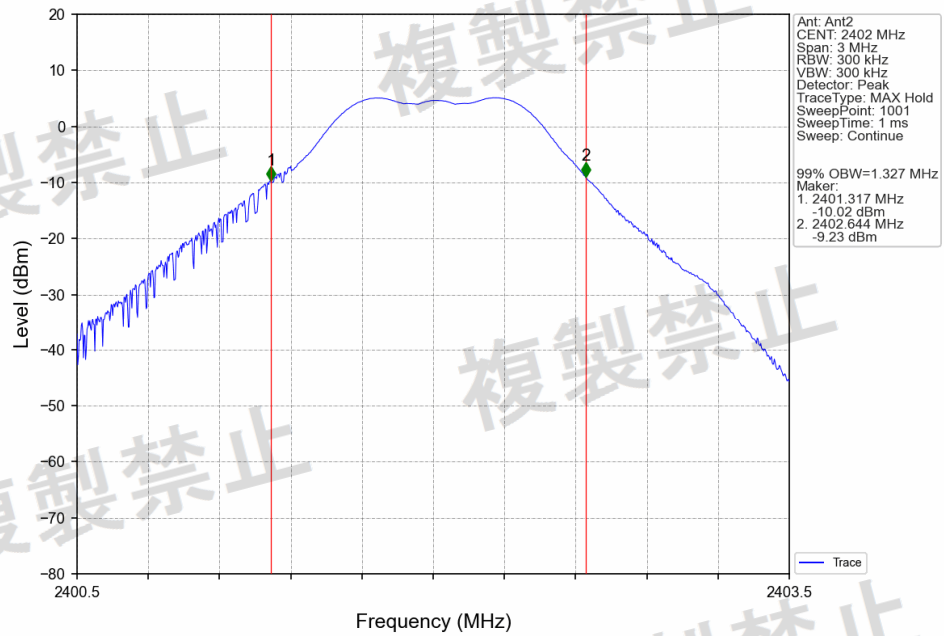


Channel 2480MHz

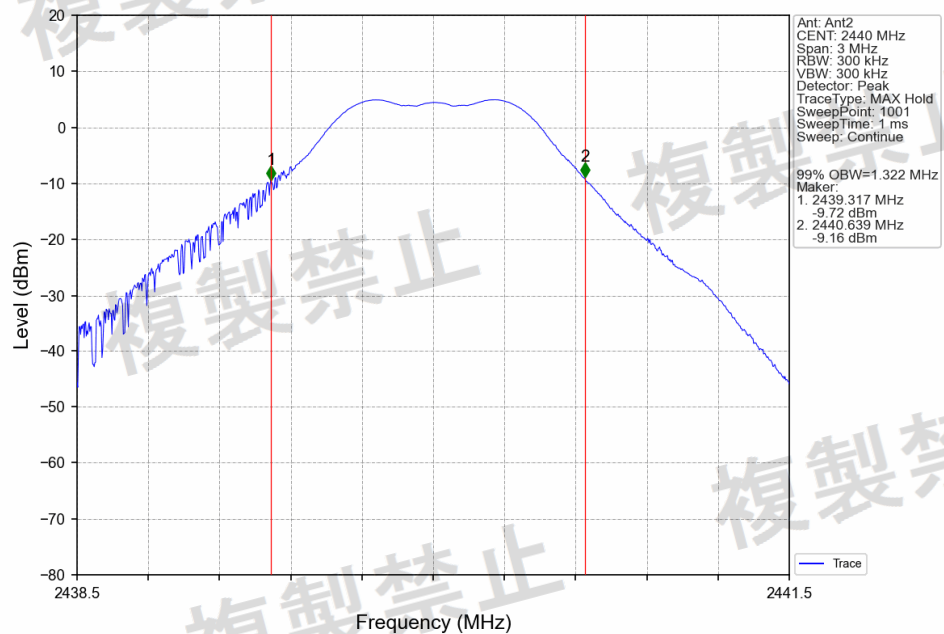


ANT2 GFSK(LE 1M)

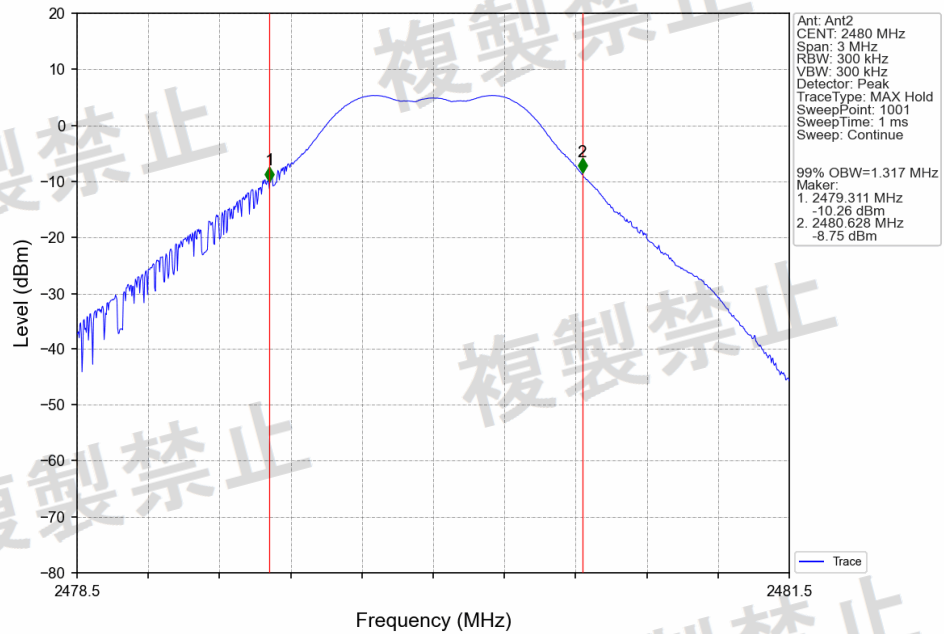
Channel 2402MHz



Channel 2440MHz

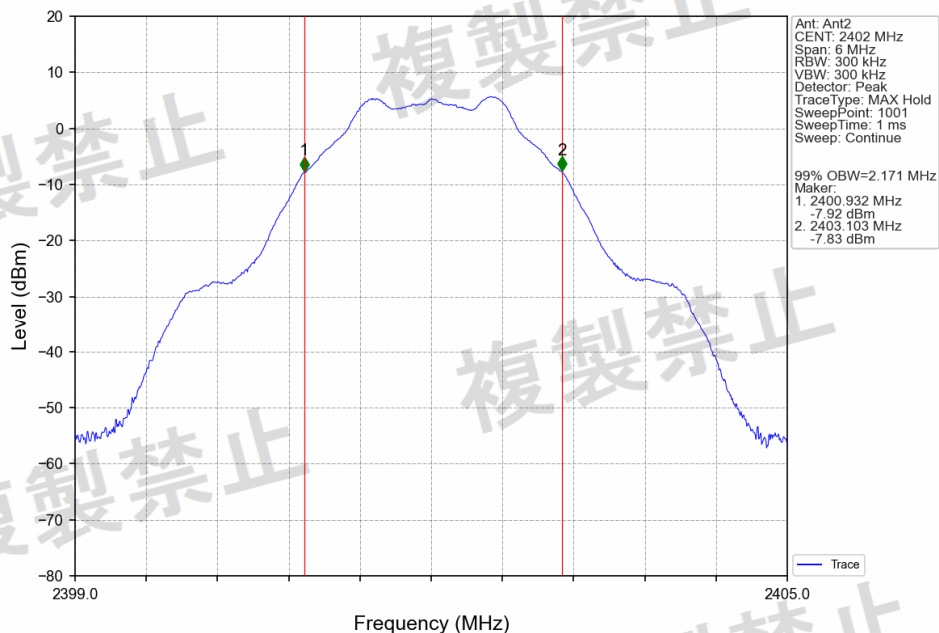


Channel 2480MHz

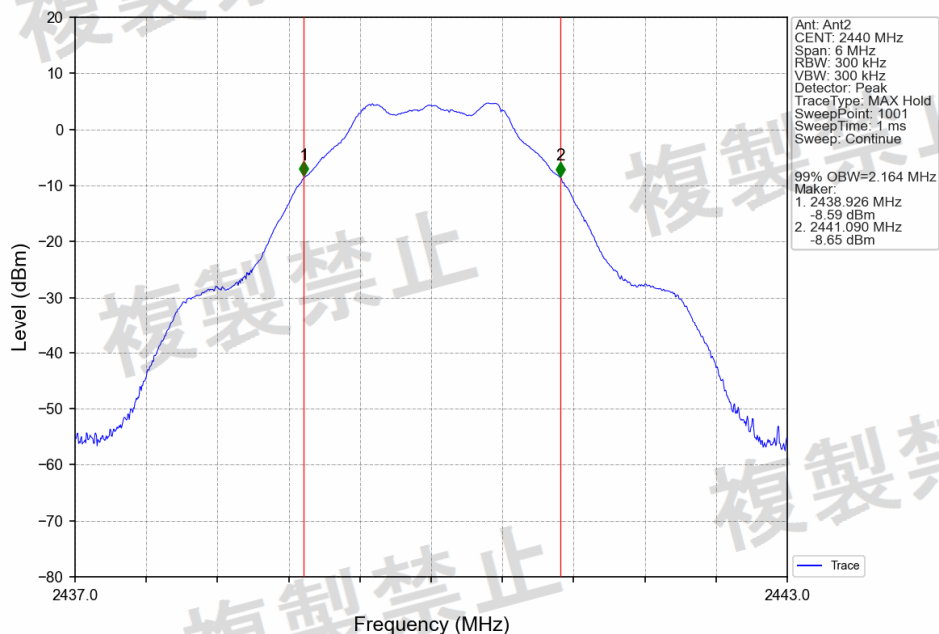


ANT2 GFSK(LE 2M)

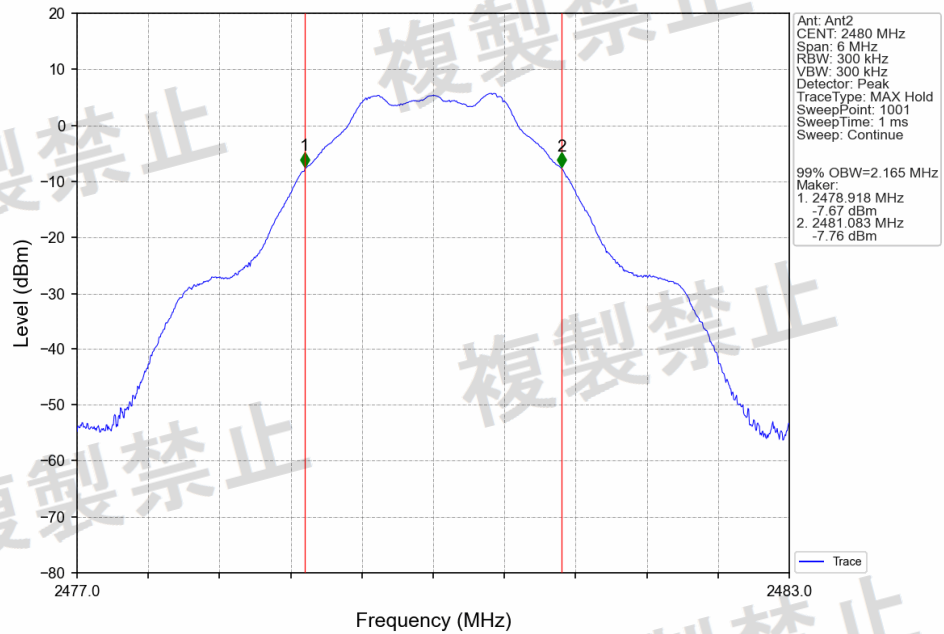
Channel 2402MHz



Channel 2440MHz



Channel 2480MHz



6.4 Spurious Emission Intensity

6.4.1 Test Requirement

Article 2, Paragraph 1, Item (19).

6.4.2 Limit

According to Article 2-1, permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 $\mu\text{W}/\text{MHz}$ or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 $\mu\text{W}/\text{MHz}$ or less.

6.4.3 Measuring Instruments and setting

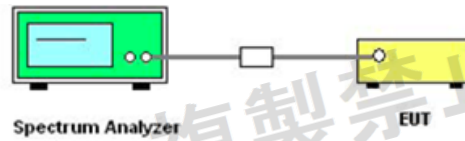
Please refer to section 4 in this report. The following table is the setting of the spectrum.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	100KHz(below 1GHz);1MHz(Above 1GHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.4.4 Test Procedures

- 1 EUT have transmitted the maximum modulation signal and fixed channelize.
- 2 Setting of SA is following as: RB/VB: 100KHz(below 1GHz);1MHz(Above 1GHz)/ Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- 3 Setting of SA is following as 30MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5 $\mu\text{W}/\text{MHz}$.
- 4 SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25 $\mu\text{W}/\text{MHz}$.
- 5 SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25 $\mu\text{W}/\text{MHz}$
- 6 SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5 $\mu\text{W}/\text{MHz}$
- 7 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.

6.4.5 Test Setup Layout



6.4.6 Test Deviation

There is no deviation with the original standard.

6.4.7 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.4.8 Test Result

Modulation	Channel	Test Mode	Test Result
GFSK(LE)	Low	Transmitting	PASS
	Middle	Transmitting	PASS
	High	Transmitting	PASS
Remark: Only the worst modulation GFSK (Normal) were reported.			

LE 1M:

Channel	ANT	Band (MHz)	Frequency (MHz)	Max Value (dBm/MHz)	Max Value (μ W/MHz)	Limit (μ W/MHz)
Low	1	30-2387	2001.5	-49.12	0.012	2.5
		2387-2400	2399.987	-26.99	2.000	25
		2483.5-2496.5	2494.251	-54.03	0.004	25
		2496.5-12500	3202.5	-38.06	0.156	2.5
	2	30-2387	2002	-49.98	0.010	2.5
		2387-2400	2399.987	-26.27	2.360	25
		2483.5-2496.5	2486.334	-54.00	0.004	25
		2496.5-12500	3202.5	-37.47	0.179	2.5
Middle	1	30-2387	2033.5	-50.96	0.008	2.5
		2387-2400	2393.903	-53.17	0.005	25
		2483.5-2496.5	2494.303	-53.81	0.004	25
		2496.5-12500	3253.5	-39.71	0.107	2.5
	2	30-2387	2033	-50.31	0.009	2.5
		2387-2400	2393.266	-52.26	0.006	25
		2483.5-2496.5	2493.185	-53.79	0.004	25
		2496.5-12500	3253.5	-39.76	0.106	2.5
High	1	30-2387	2067	-50.32	0.009	2.5
		2387-2400	2394.085	-53.57	0.004	25
		2483.5-2496.5	2483.617	-49.91	0.010	25
		2496.5-12500	2533	-37.00	0.200	2.5
	2	30-2387	2066.5	-49.71	0.011	2.5
		2387-2400	2393.812	-52.14	0.006	25
		2483.5-2496.5	2483.903	-51.05	0.008	25
		2496.5-12500	3306.5	-42.23	0.060	2.5

LE 2M:

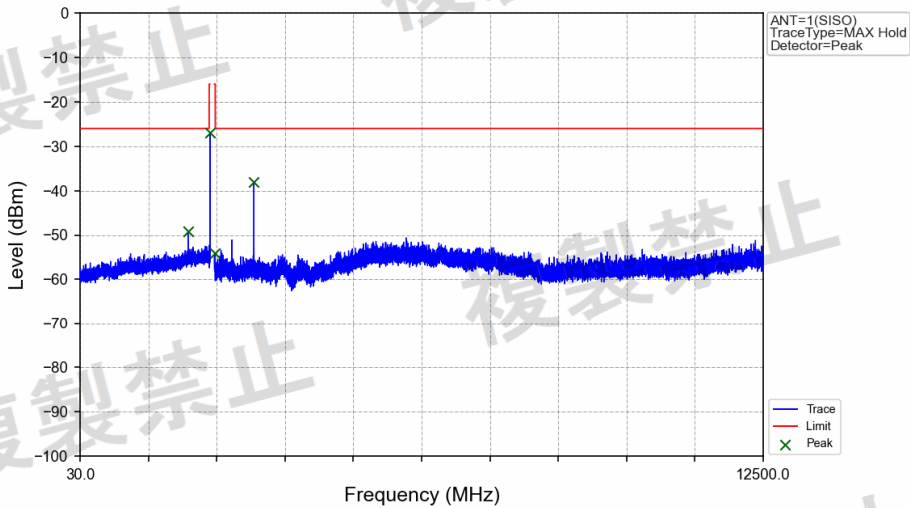
Channel	ANT	Band (MHz)	Frequency (MHz)	Max Value (dBm/MHz)	Max Value (μ W/MHz)	Limit (μ W/MHz)
Low	1	30-2387	2002	-50.57	0.009	2.5
		2387-2400	2399.987	-22.49	5.636	25
		2483.5-2496.5	2495.161	-54.25	0.004	25
		2496.5-12500	3202.5	-37.85	0.164	2.5
	2	30-2387	2001.5	-49.13	0.012	2.5
		2387-2400	2399.987	-22.36	5.808	25
		2483.5-2496.5	2484.059	-53.99	0.004	25
		2496.5-12500	3202.5	-37.26	0.188	2.5
Middle	1	30-2387	2033.5	-51.78	0.007	2.5
		2387-2400	2392.733	-53.83	0.004	25
		2483.5-2496.5	2495.447	-54.53	0.004	25
		2496.5-12500	3253.5	-39.89	0.103	2.5
	2	30-2387	2033	-50.71	0.008	2.5
		2387-2400	2393.721	-53.45	0.005	25
		2483.5-2496.5	2483.955	-53.90	0.004	25
		2496.5-12500	3253.5	-39.69	0.107	2.5
High	1	30-2387	2066.5	-50.16	0.010	2.5
		2387-2400	2393.877	-54.49	0.004	25
		2483.5-2496.5	2483.526	-45.96	0.025	25
		2496.5-12500	3306.5	-41.89	0.065	2.5
	2	30-2387	2066.5	-50.24	0.009	2.5
		2387-2400	2393.487	-54.11	0.004	25
		2483.5-2496.5	2483.565	-46.20	0.024	25
		2496.5-12500	3306.5	-42.26	0.059	2.5

Test Plots

GFSK(LE 1M)

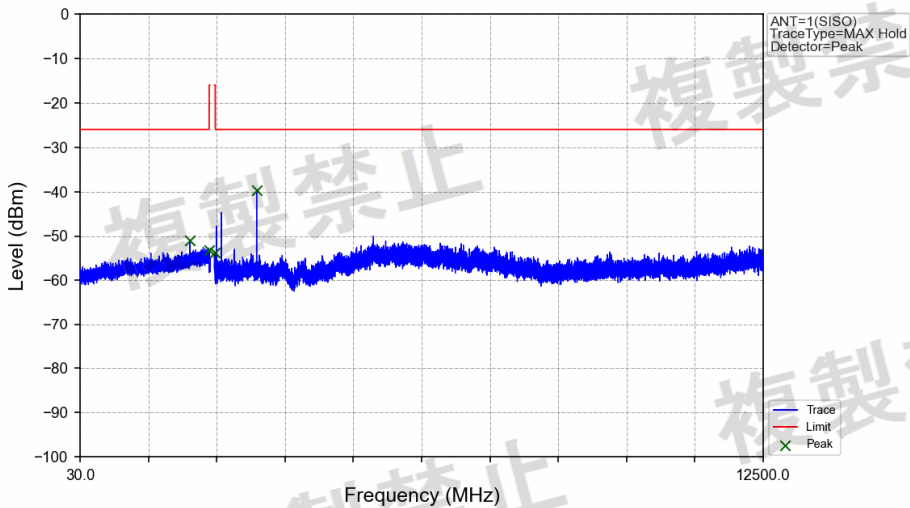
ANT1

Low Channel



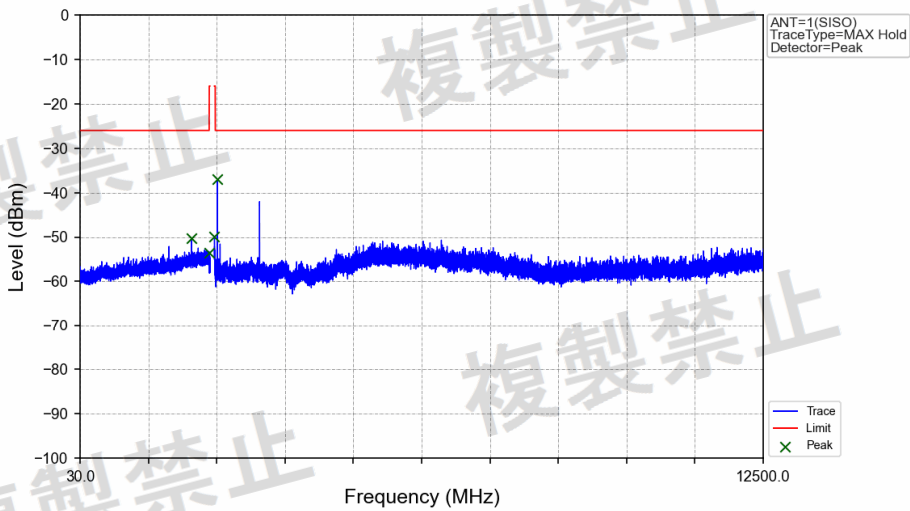
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2001.500	-49.12	/	-26	Pass
2387	2400	1	1	2399.987	-26.99	/	-16	Pass
2483.5	2496.5	1	1	2494.251	-54.03	/	-16	Pass
2496.5	12500	1	1	3202.500	-38.06	/	-26	Pass

Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2033.500	-50.96	/	-26	Pass
2387	2400	1	1	2393.903	-53.17	/	-16	Pass
2483.5	2496.5	1	1	2494.303	-53.81	/	-16	Pass
2496.5	12500	1	1	3253.500	-39.71	/	-26	Pass

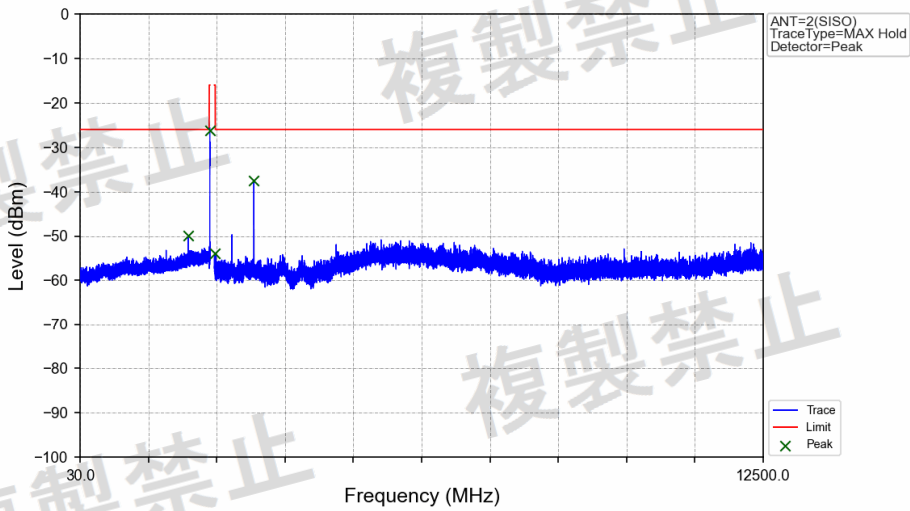
High Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2067.000	-50.32	/	-26	Pass
2387	2400	1	1	2394.085	-53.57	/	-16	Pass
2483.5	2496.5	1	1	2483.617	-49.91	/	-16	Pass
2496.5	12500	1	1	2533.000	-37.00	/	-26	Pass

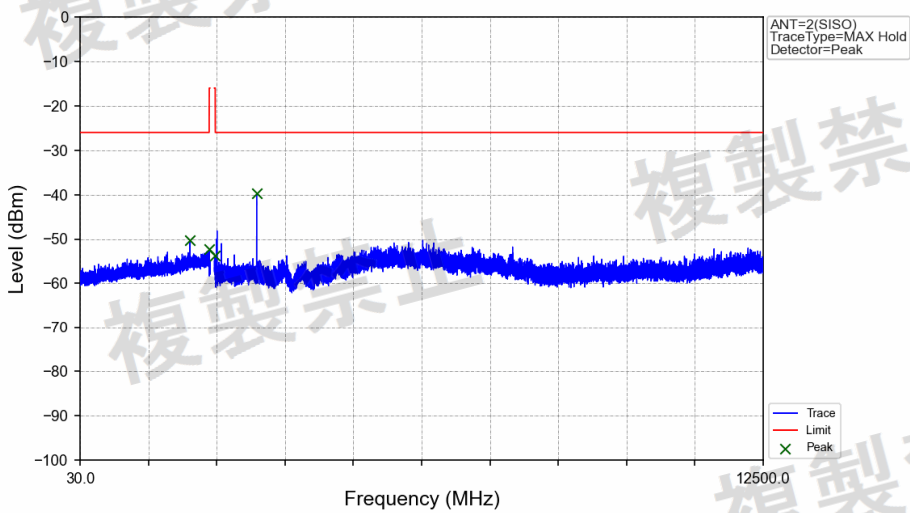
ANT2

Low Channel



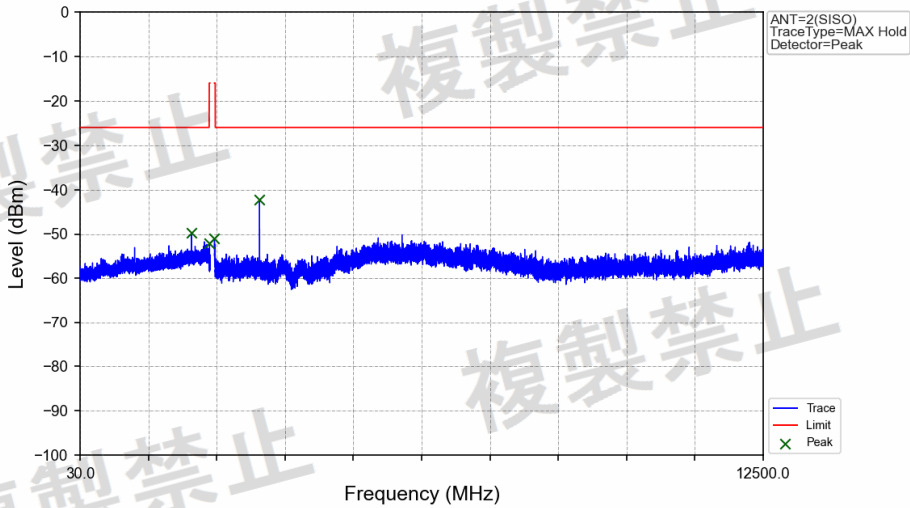
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2002.000	-49.98	/	-26	Pass
2387	2400	1	1	2399.987	-26.27	/	-16	Pass
2483.5	2496.5	1	1	2486.334	-54.00	/	-16	Pass
2496.5	12500	1	1	3202.500	-37.47	/	-26	Pass

Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2033.000	-50.31	/	-26	Pass
2387	2400	1	1	2393.266	-52.26	/	-16	Pass
2483.5	2496.5	1	1	2493.185	-53.79	/	-16	Pass
2496.5	12500	1	1	3253.500	-39.76	/	-26	Pass

High Channel

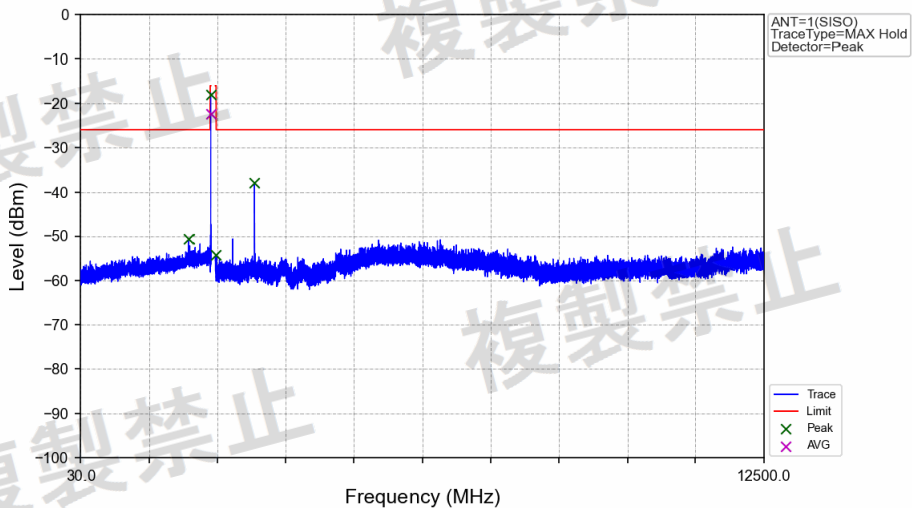


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2066.500	-49.71	/	-26	Pass
2387	2400	1	1	2393.812	-52.14	/	-16	Pass
2483.5	2496.5	1	1	2483.903	-51.05	/	-16	Pass
2496.5	12500	1	1	3306.500	-42.23	/	-26	Pass

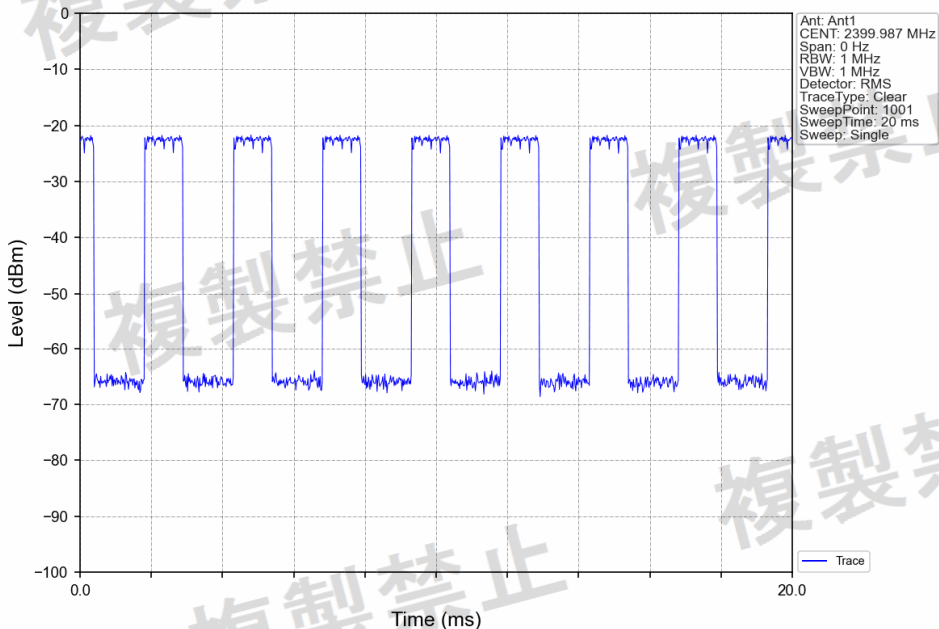
GFSK(LE 2M)

ANT1

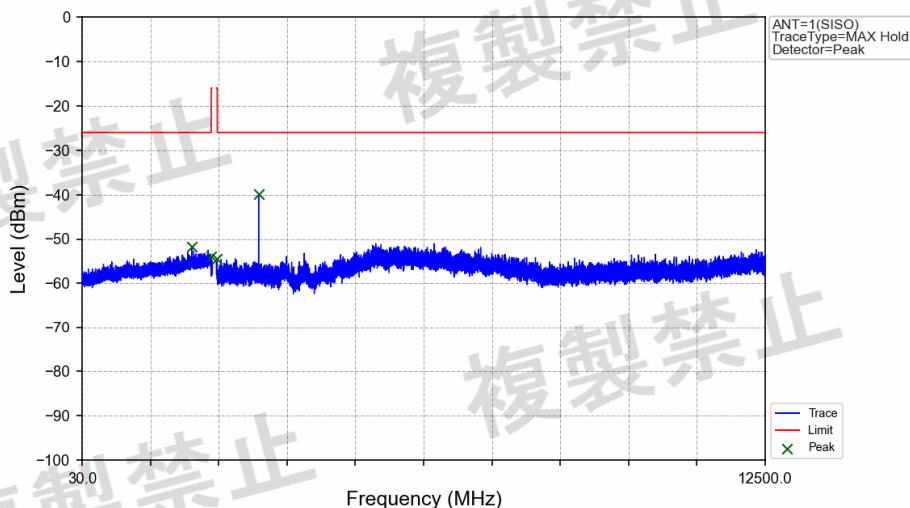
Low Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2002.000	-50.57	/	-26	Pass
2387	2400	1	1	2399.987	-18.05	-22.49	-16	Pass
2483.5	2496.5	1	1	2495.161	-54.25	/	-16	Pass
2496.5	12500	1	1	3202.500	-37.85	/	-26	Pass

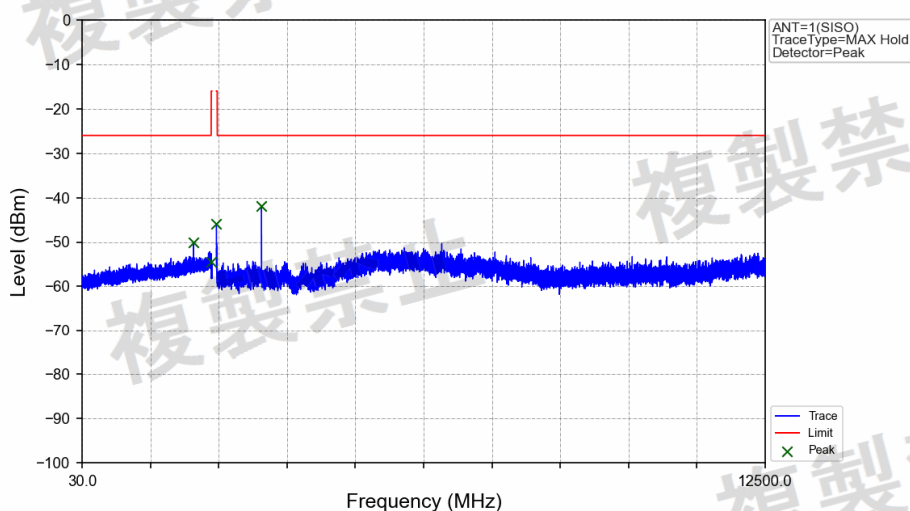


Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2033.500	-51.78	/	-26	Pass
2387	2400	1	1	2392.733	-53.83	/	-16	Pass
2483.5	2496.5	1	1	2495.447	-54.53	/	-16	Pass
2496.5	12500	1	1	3253.500	-39.89	/	-26	Pass

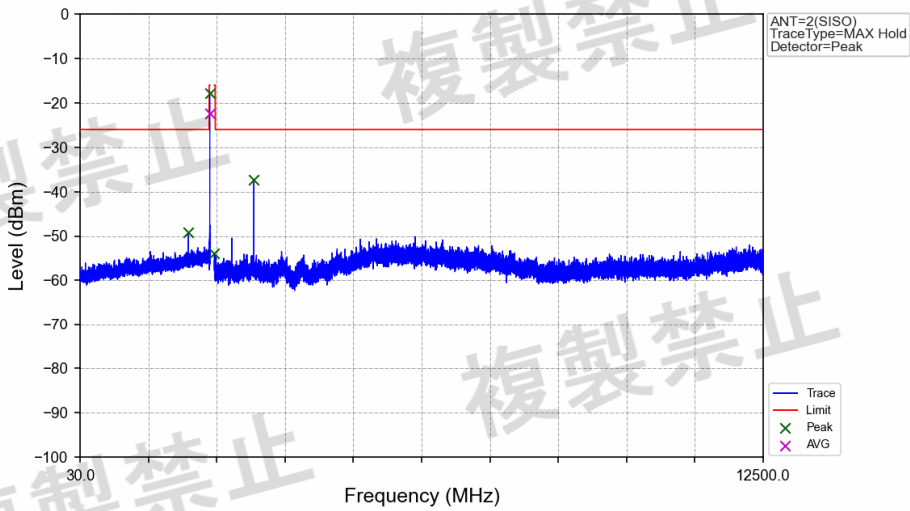
High Channel



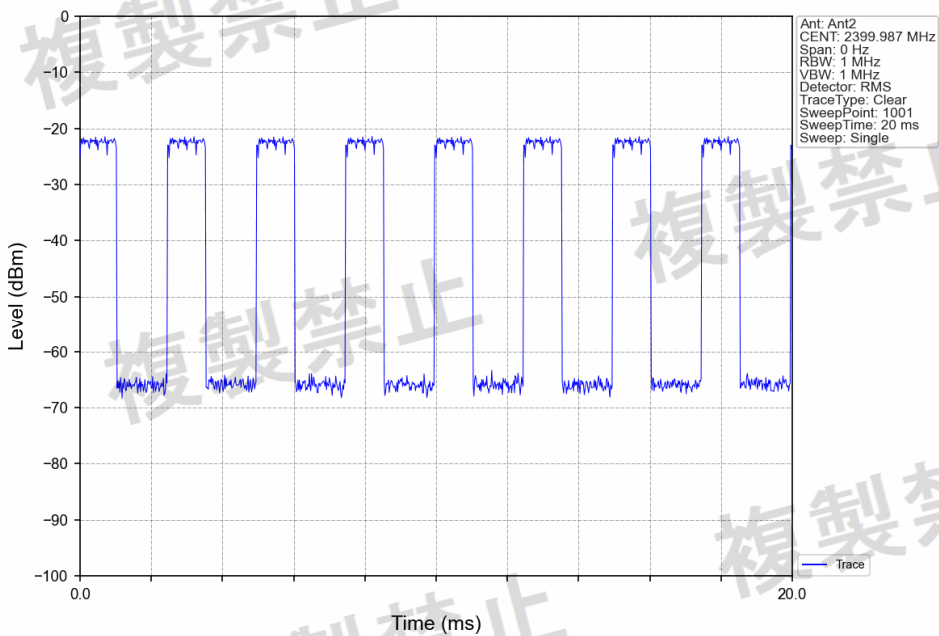
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2066.500	-50.16	/	-26	Pass
2387	2400	1	1	2393.877	-54.49	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-45.96	/	-16	Pass
2496.5	12500	1	1	3306.500	-41.89	/	-26	Pass

ANT2

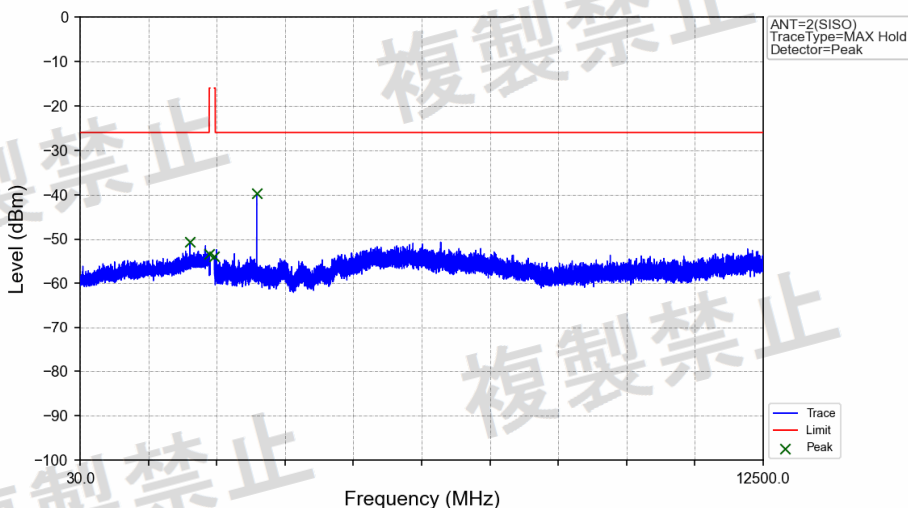
Low Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2001.500	-49.13	/	-26	Pass
2387	2400	1	1	2399.987	-17.82	-22.36	-16	Pass
2483.5	2496.5	1	1	2484.059	-53.99	/	-16	Pass
2496.5	12500	1	1	3202.500	-37.26	/	-26	Pass

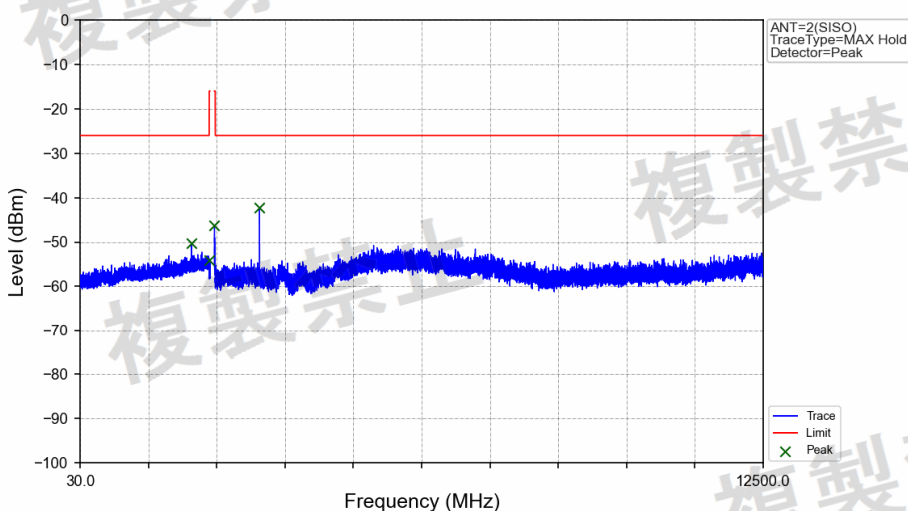


Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2033.000	-50.71	/	-26	Pass
2387	2400	1	1	2393.721	-53.45	/	-16	Pass
2483.5	2496.5	1	1	2483.955	-53.90	/	-16	Pass
2496.5	12500	1	1	3253.500	-39.69	/	-26	Pass

High Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2066.500	-50.24	/	-26	Pass
2387	2400	1	1	2393.487	-54.11	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-46.20	/	-16	Pass
2496.5	12500	1	1	3306.500	-42.26	/	-26	Pass

7 Measurements of Receiving Equipment

7.1 Secondary Radiated Emissions

7.1.1 Test Requirement

Article 2, Paragraph 1, Item (19).

7.1.2 Limit

According to Article 2-1, the limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

7.1.3 Measuring Instruments and setting

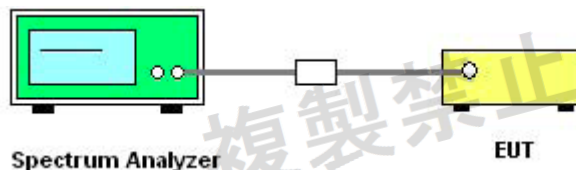
Please refer to section 4 in this report. The following table is the setting of the spectrum.

Spectrum Parameter	Setting
Attenuation	Auto
RB/VB	100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.4 Test Procedures

- 1 EUT has the continuous reception mode and fixed only one channelize.
- 2 Setting of SA is following as RB / VB: 100 kHz (below 1GHz emissions) / 1 MHz (above 1GHz emissions) / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- 3 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
- 4 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
- 5 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

7.1.5 Test Setup Layout



7.1.6 Test Deviation

There is no deviation with the original standard.

7.1.7 EUT Operation during Test

The EUT was programmed to be in receiving mode.

7.1.8 Test Result

Modulation	Channel	Test Mode	Test Result
GFSK(LE)	Low	Receiving	PASS
	Middle	Receiving	PASS
	High	Receiving	PASS
Remark: Only the worst modulation GFSK (Normal) were reported.			

LE 1M:

Channel	ANT	Band (MHz)	Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)
Low	1	30-1000	569	-75.31	0.029	4
		1000-12500	2547.5	-58.72	1.343	20
	2	30-1000	933.35	-74.54	0.035	4
		1000-12500	5642	-60.92	0.809	20
Middle	1	30-1000	838.65	-74.63	0.034	4
		1000-12500	6133	-60.05	0.989	20
	2	30-1000	766.5	-74.52	0.035	4
		1000-12500	5805	-60.62	0.867	20
High	1	30-1000	824.15	-75.30	0.030	4
		1000-12500	5617	-60.17	0.962	20
	2	30-1000	925.35	-74.77	0.033	4
		1000-12500	5799	-60.37	0.918	20

LE 2M:

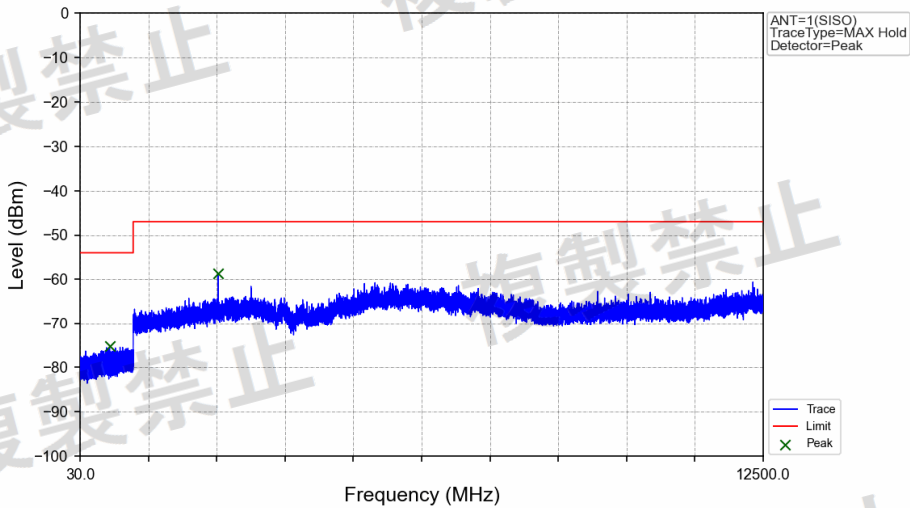
Channel	ANT	Band (MHz)	Frequency (MHz)	Max Value (dBm)	Max Value (nW)	Limit (nW)
Low	1	30-1000	918.35	-75.14	0.031	4
		1000-12500	2553.5	-57.28	1.871	20
	2	30-1000	877.35	-75.02	0.031	4
		1000-12500	5465	-60.88	0.817	20
Middle	1	30-1000	831.65	-74.78	0.033	4
		1000-12500	6368.5	-59.91	1.021	20
	2	30-1000	890.4	-74.86	0.033	4
		1000-12500	5790	-60.86	0.820	20
High	1	30-1000	918.7	-74.59	0.035	4
		1000-12500	2534	-76.32	0.023	20
	2	30-1000	826.55	-74.92	0.032	4
		1000-12500	2413	-58.61	1.377	20

Test Plots

GFSK(LE 1M)

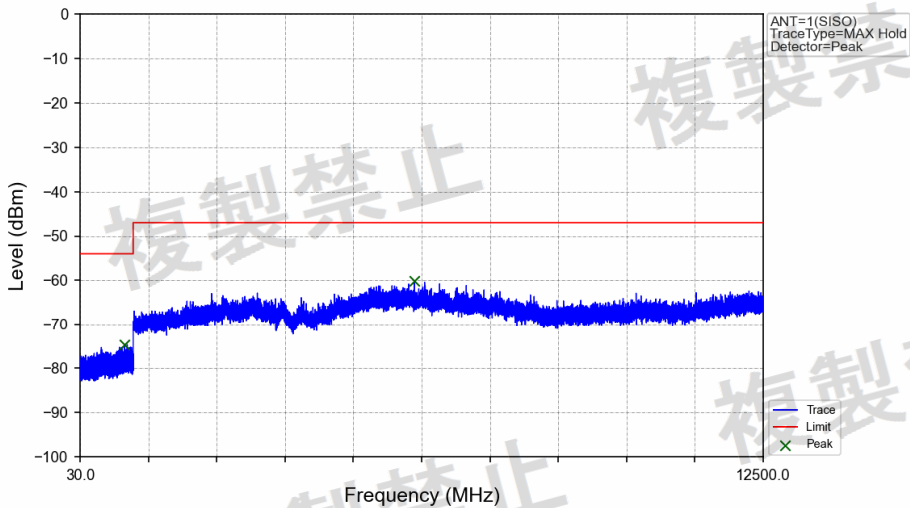
ANT1

Low Channel



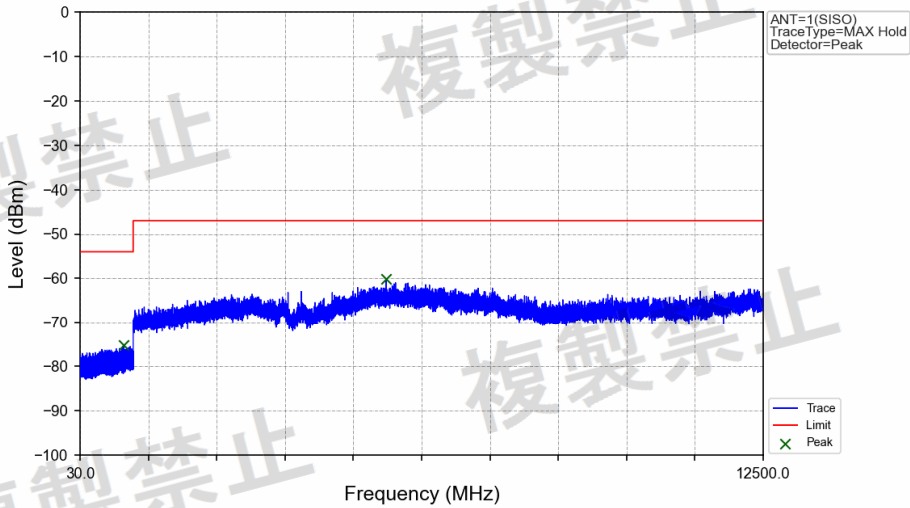
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	569.000	-75.31	/	-54	Pass
1000	12500	1	1	2547.500	-58.72	/	-47	Pass

Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	838.650	-74.63	/	-54	Pass
1000	12500	1	1	6133.000	-60.05	/	-47	Pass

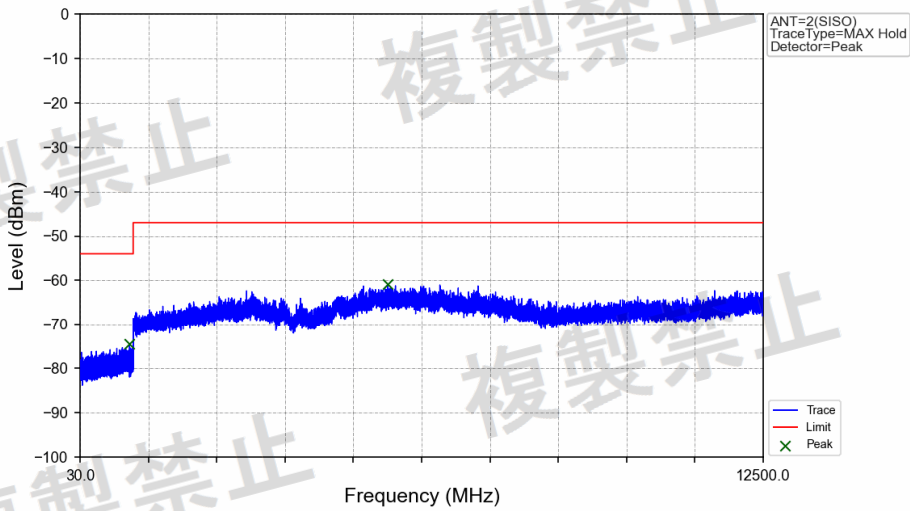
High Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	824.150	-75.30	/	-54	Pass
1000	12500	1	1	5617.000	-60.17	/	-47	Pass

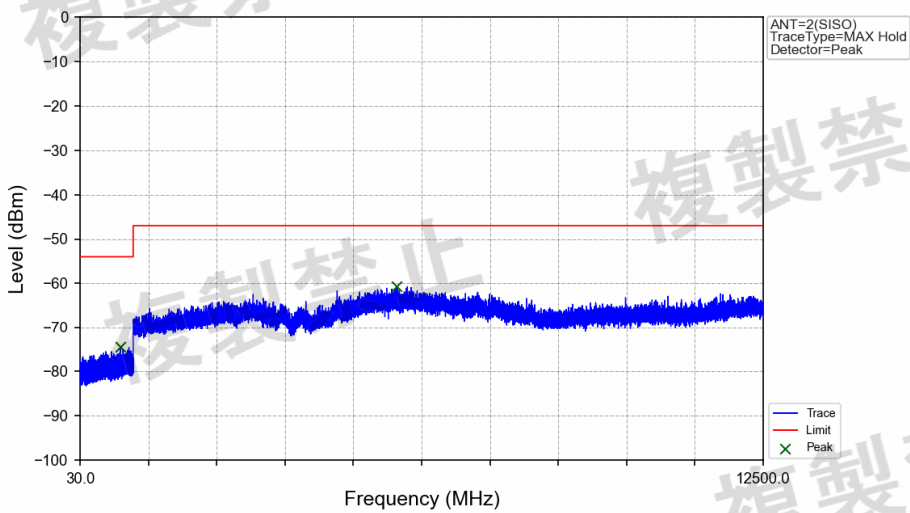
ANT2

Low Channel



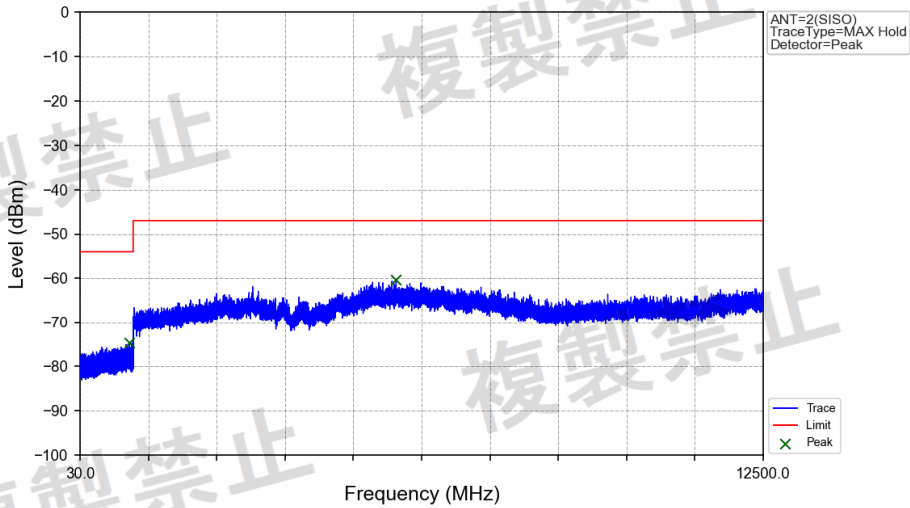
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	933.350	-74.54	/	-54	Pass
1000	12500	1	1	5642.000	-60.92	/	-47	Pass

Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	766.500	-74.52	/	-54	Pass
1000	12500	1	1	5805.000	-60.62	/	-47	Pass

High Channel

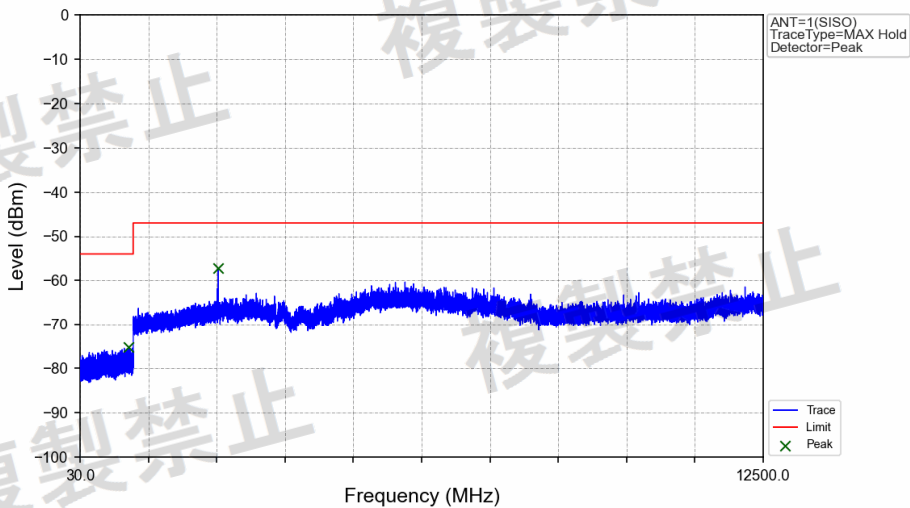


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	925.350	-74.77	/	-54	Pass
1000	12500	1	1	5799.000	-60.37	/	-47	Pass

GFSK(LE 2M)

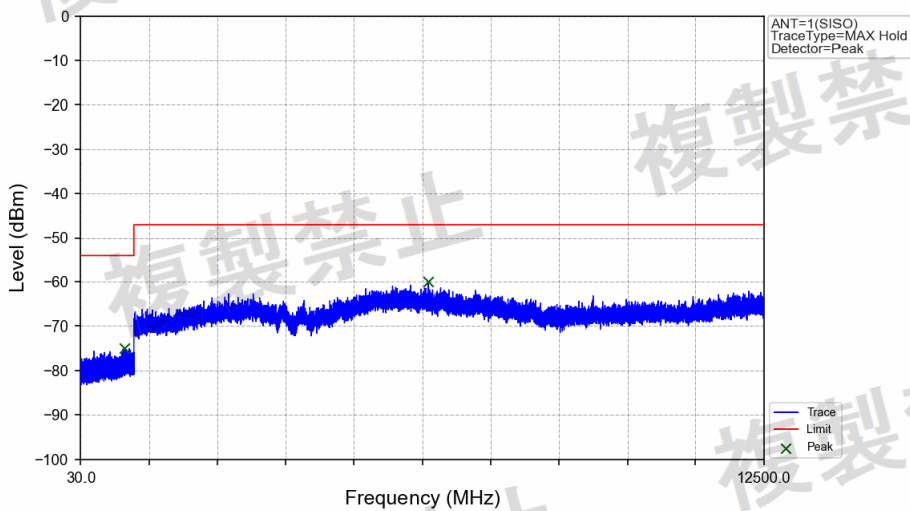
ANT1

Low Channel



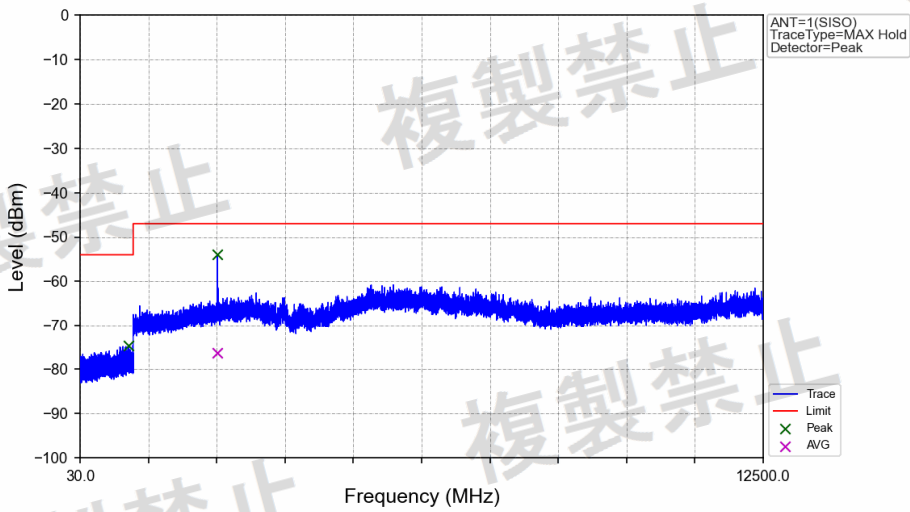
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	918.350	-75.14	/	-54	Pass
1000	12500	1	1	2553.500	-57.28	/	-47	Pass

Middle Channel

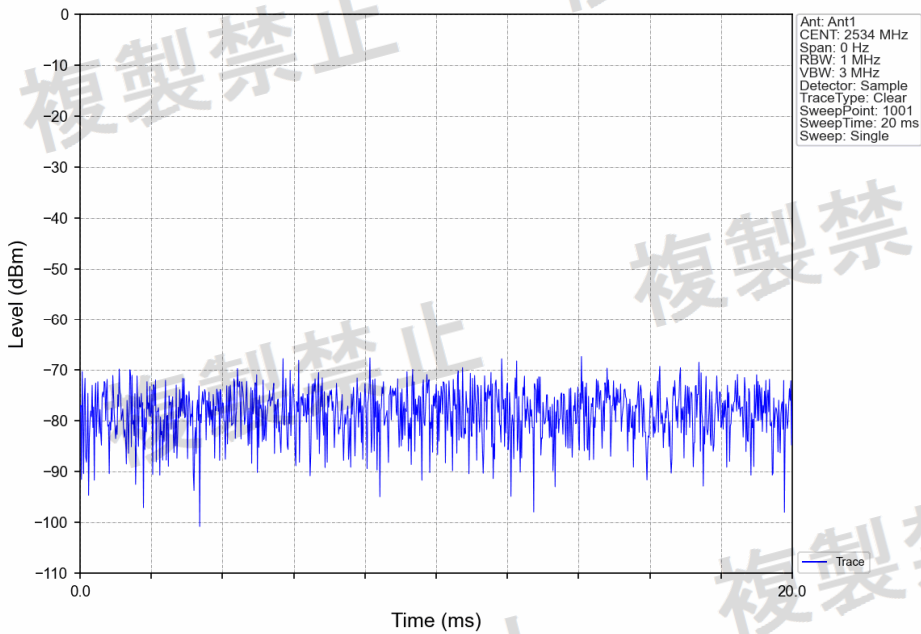


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	831.650	-74.78	/	-54	Pass
1000	12500	1	1	6368.500	-59.91	/	-47	Pass

High Channel

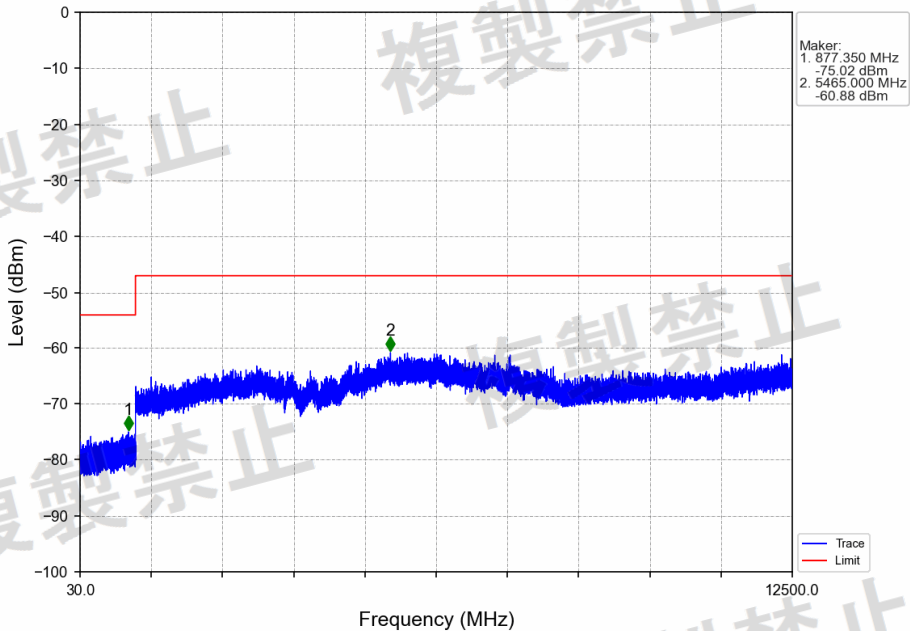


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	918.700	-74.59	/	-54	Pass
1000	12500	1	1	2534.000	-53.98	-76.32	-47	Pass

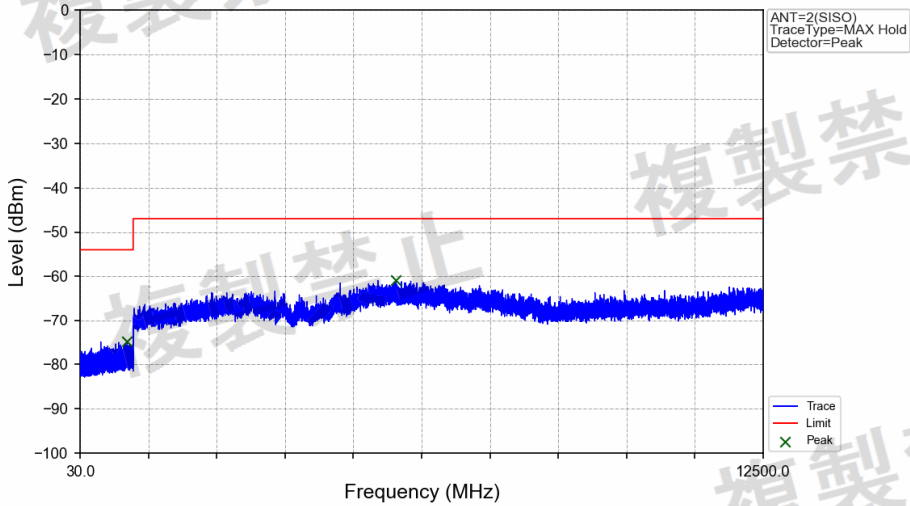


ANT2

Low Channel

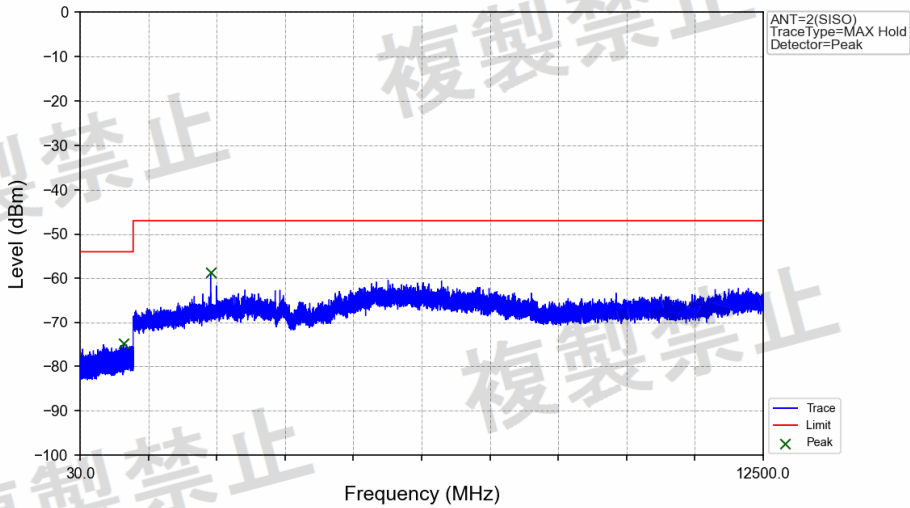


Middle Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	890.400	-74.86	/	-54	Pass
1000	12500	1	1	5790.000	-60.86	/	-47	Pass

High Channel



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	826.550	-74.92	/	-54	Pass
1000	12500	1	1	2413.000	-58.61	/	-47	Pass

8 Measurements of Telecommunications circuit connection equipment

8.1 Interference prevention function

8.1.1 Test Requirement

Article 2, Paragraph 1, Item (19).

8.1.2 Conditions etc. of test equipment

- (1) The demodulator shall be able to demodulate the transmitting signal from the radio equipment and display contents of the identification code.
- (2) The opposite equipment shall be able to transmit the identification code as same as the transmitting signal from the radio equipment

8.1.3 Test Procedure

- (1) The radio equipment with automatic transmitting function of identification code A. Transmit the assigned identification code from the radio equipment. B. Confirm the identification code received by the demodulator.
- (2) The radio equipment with automatic receiving function of identification code A. Transmit the assigned identification code from the opposite equipment.

8.1.4 Test Setup Layout



8.1.5 Test Deviation

There is no deviation with the original standard.

8.1.6 EUT Operation during Test

The EUT was programmed to be in normal operation mode.

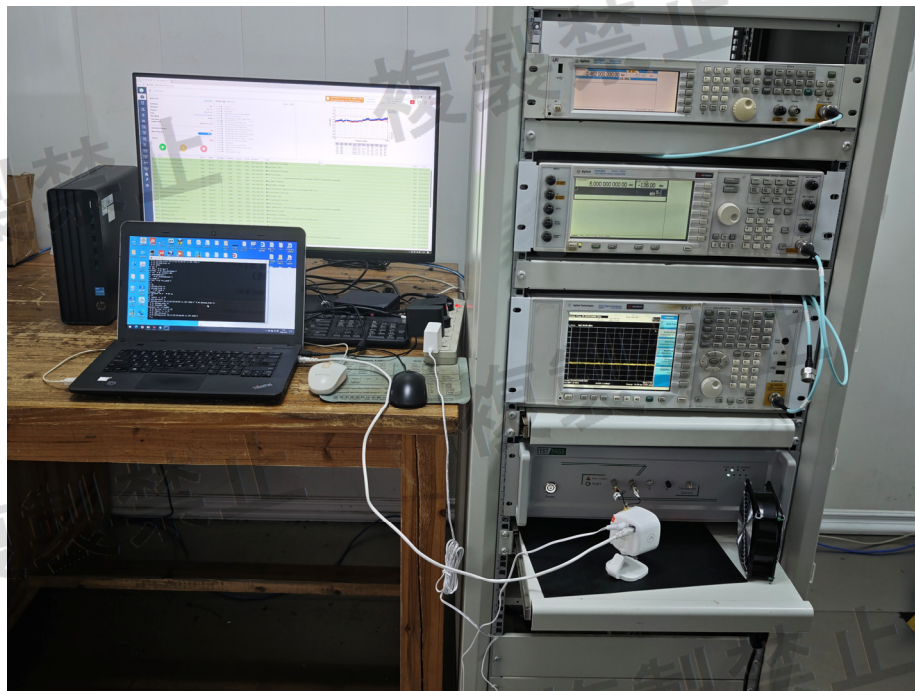
8.1.7 Test Result

Item	Modulation	Test mode	Results
Identification code	GFSK(LE)	Normal Operation	PASS

EUT BD Address plot:

BTMAC=B8:3A:9D:C0:02:DB

9 Test Setup View



10 Photographs - Constructional Details

Note: Please refer to appendix: Appendix-ADC-V530-Photos

===== End of Report =====