

EUROFINS ELECTRICAL TESTING SERVICE (SHENZHEN) CO., LTD.

RADIO TEST - REPORT

Japan Compliance Test Report

Test Report Number: EFGX26030287-IE-03-E01

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1 General Information

1.1 Notes

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd. is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

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Operator:

2026-04-15

Bruce Zheng / Project Engineer



Date

Eurofins-Lab.

Name / Title

Signature

Technical responsibility for area of testing:

2026-04-15

Albert Xu / Lab Manager



Date

Eurofins-Lab.

Name / Title

Signature

1.2 Testing laboratory

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

Room 20 of 2/F., 1/F., Building 2, Spring Block & Room 102, Building 8, Autumn Block,
Meishenghuigu Innovation Park, No.83, Dabao Road, Bao'an District, Shenzhen, Guangdong, China

Telephone : +86-755-82911867

Fax : +86-755-82910749

The Laboratory has passed the Accreditation by the American Association for Laboratory Accreditation (A2LA). The Accreditation number is 5376.01.

The Laboratory has been listed by industry Canada to perform electromagnetic emission measurements, The CAB identifier is CN0088.

1.3 Details of approval holder

Name : HAC3 TRADE CO.,LTD
Address : 5-9-10 Hishie Higashi-Osaka-shi,Osaka Japan 578-0984
Telephone : N/A
Fax : N/A

1.4 Details of Manufacturer

Name : ANHUI ARTS&CRAFTS IMP.&EXP.CO.LTD
Address : No.168 Funan Road,Hefei,city,Anhui province,P.R.CHINA
Telephone : ./.
Fax : ./.

1.5 Application details

Date of receipt of application : 2026-03-13
Date of receipt of test item : 2026-03-13
Date of test : 2026-03-13 to 2026-04-15
Date of issue : 2026-04-15

1.6 Test item

Product type : Wireless Call Chime
Model name : AXL-772
Brand : ./.
Serial number : ./.
Sample ID : 260316-18-001
Ratings : 1.5Vdc supplied by battery.
Test voltage : DC 3V
Additional information : ./.

RadioTechnical data

Frequency range : 315MHz
Radio Tech. : SRD
Frequency channel : 1
Modulation : ASK
Antenna type : Internal Antenna

The above sample(s) and sample information was/were submitted and identified on behalf of the applicant.
Eurofins assures objectivity and impartiality of the test, and fulfills the obligation of confidentiality for applicant's commercial information and technical documents.

1.7 Standards

Standards	
Article 2 paragraph 1 item (8)	Specified low power radio equipment
ARIB STD-T93	315 MHz-Band Telemeter, Telecontrol and Data Transmission Radio Equipment for Specified Low Power Radio Station

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified were ascertained in the course of the tests performed. ☐

2.2 Test environment

Temperature : 20 ... 25°C
Relative humidity content : 30 ... 60%
Air pressure : 100 ... 101kPa

2.3 Measurement uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Conducted RF test	RF Power Conducted: 1.16dB Frequency test involved: 1.05×10 ⁻⁷ or 1%

2.4 Test mode

The EUT was set at continuously transmitting

2.5 Test equipment utilized

23-2-10-44	DC power supply	E3642A	2027-03-21
23-2-10-45	Temperature test chamber	SG-80-CC-2	2027-03-21
23-2-10-50	Temperature & Humidity Meter	COS-03	2027-03-21
23-2-10-66	Barometer	Baro	2027-03-21
23-2-13-01	EMI Test Receiver	ESR7	2027-03-21
23-2-13-02	Signal Analyzer	N9020B-544	2027-03-21
23-2-12-01	Active Loop Antenna	FMZB 1519B	2026-05-29
23-2-12-02	TRILOG Broadband Antenna	VULB9168	2026-05-29
23-2-12-03	Horn Antenna	3117	2026-05-29
23-2-12-04	Horn Antenna	BBHA 9170	2026-05-29
23-2-10-01	Preamplifier	BBV9745	2027-03-21
23-2-10-02	Preamplifier	TAP01018048	2027-03-21
23-2-10-03	Preamplifier	TAP18040048	2027-03-21

Remark:

1. 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.
2. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992).
3. 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).
4. 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.
5. All calibration reports are from CCIC (Shenzhen) Metrology & Testing Service Co., Ltd. And GRG METROLOGY & TEST GROUP CO., LTD.

2.6 Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
--	--	--	--

2.7 Test software information:

Test Software Version	---		
Modulation	Setting TX Power	TX Pattern	Packet Type
ASK	--	TX Packet	--

The EUT has set the same duty cycle and it was setted to transmitting by debug software, therefore we pressed one button to transmitting 315MHz Fundamental frequency during Testing.

2.8 Customized Configurations

EUT Conf.	Signal Description	Operating Frequency	Duty Cycle
SRD	ASK	315MHz	55.32%

2.9 Test Environments

Enviroment Parameter	Temperature	Voltage	Relative Humidity
101.7Kpa	26.5℃	1.35VDC 1.5VDC 1.65VDC	58.3%

2.10 Test results

☒ 1st test

☐ test after modification

☐ production test

Conformance requirement according to Article 2 paragraph 1 item (8)		Result	Test site
Essential parameter	Corresponding technical requirements		
Transmitter requirements	3.1 Antenna Power	PASS	Site 1
	3.1 Tolerances for Antenna Power	PASS	Site 1
	3.2 Frequency Tolerance	PASS	Site 1
	3.3 Occupied Bandwidth	PASS	Site 1
	3.4 Fundamental Emission Pulsed Operation	PASS	Site 1
	3.5 Spurious Emissions	PASS	Site 1
	3.6 Interference prevention function	PASS	Site 1

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: “*” N/A is an abbreviation for Not Applicable.

NOTE 3: Method standard: MIC Notice No.88 Annex No 42.

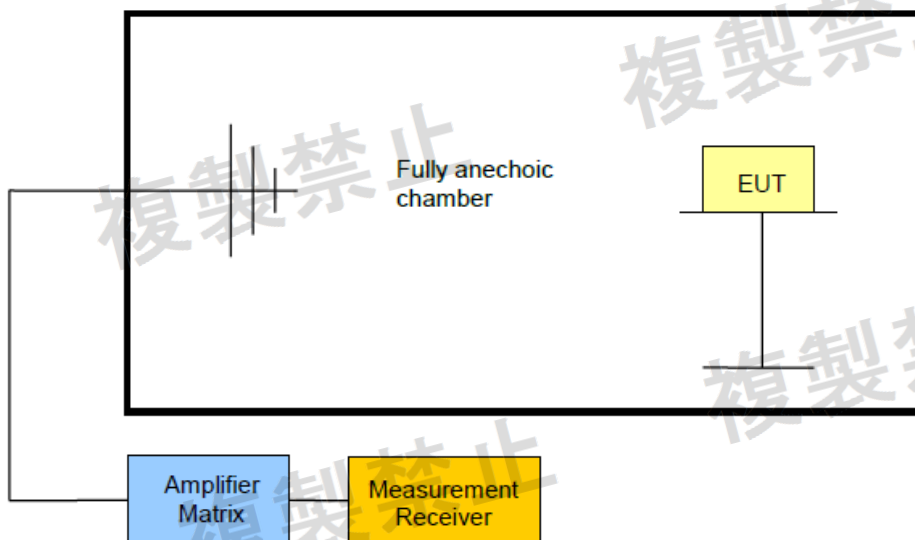
3 Technical Requirement

3.1 Antenna Power and Antenna Power Tolerance

3.1.1 Test Method

- 1: The EUT was place on a turn table is 1.5m above ground plane at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

3.1.2 Test Setup:



3.1.3 Limit

1. It is noted that if the center frequency of a band having occupied frequency bandwidth plus frequency deviation is more than 312MHz and 315.05MHz or less, the antenna power shall be 250μW or less in E.I.R.P
2. Tolerance for antenna power, which is the maximum permissible tolerance from assigned or rated antenna power, shall be +20% in the upper limit, without the lower limit.

3.1.4 Test result

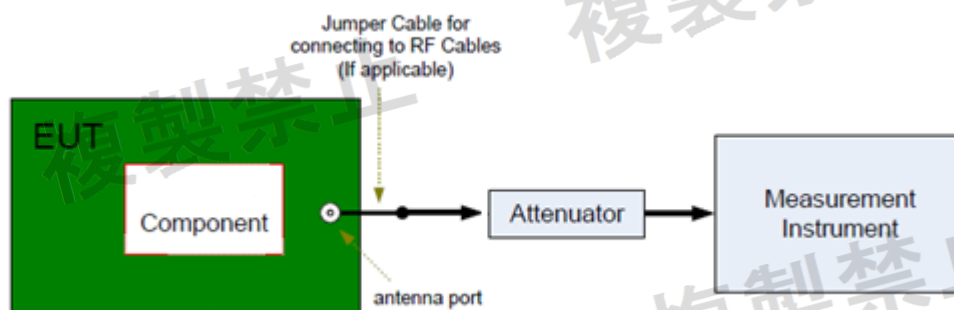
Test Condition	Frequency (MHz)	E.I.R.P (dBm)	E.I.R.P (mW)	Declared Antenna Power (mW)	Tolerance
NTNV	315	-12.19	0.060	0.1	-40%
NTLV	315	-12.82	0.052	0.1	-48%
NTHV	315	-12.56	0.055	0.1	-45%

3.2 Frequency Tolerance

3.2.1 Test Method:

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 315MHz
3. Then set the EUT to transmit at Highest, Middle, and Lowest frequency and measure the conducted output power separately.
4. RBW=10kHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
5. Repeat above procedures until all frequencies measured were complete.

3.2.2 Test Setup:

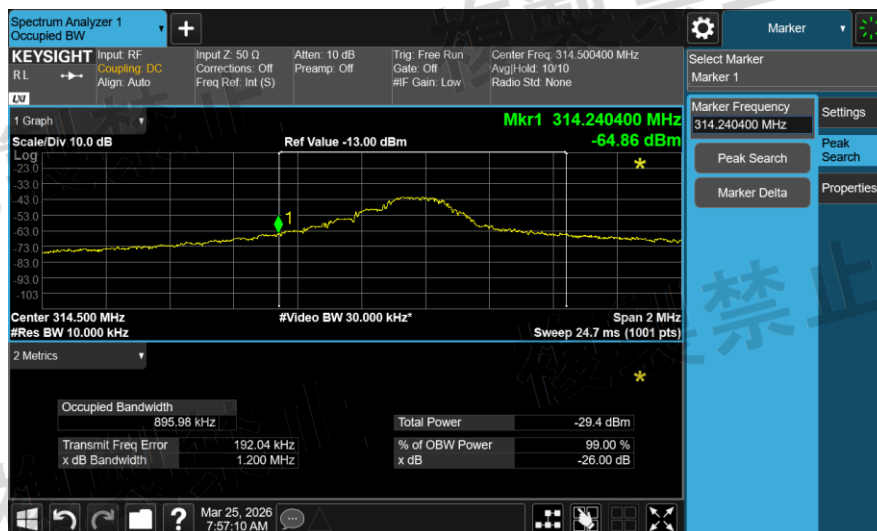


3.2.3 Limit

Frequency tolerance shall be within the assigned frequency band(more than 312MHz and 315.25 MHz or less)

3.2.4 Test Result

NTNV

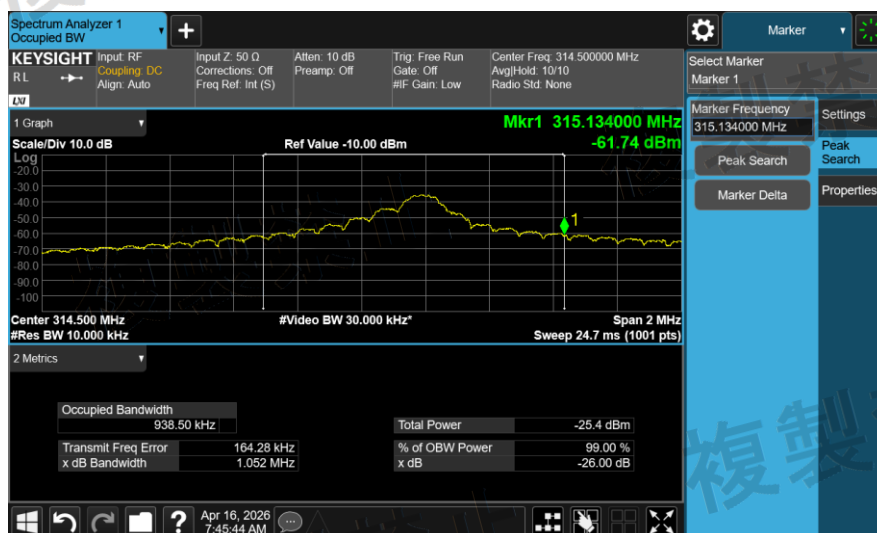
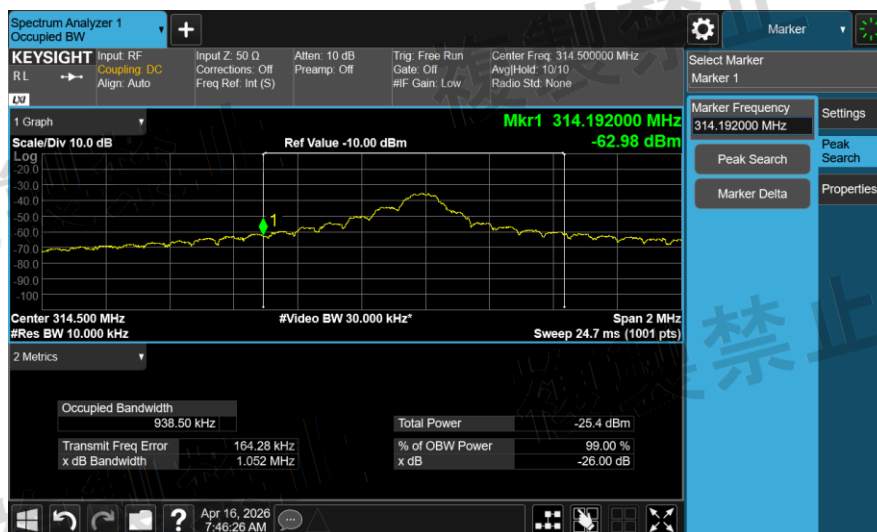


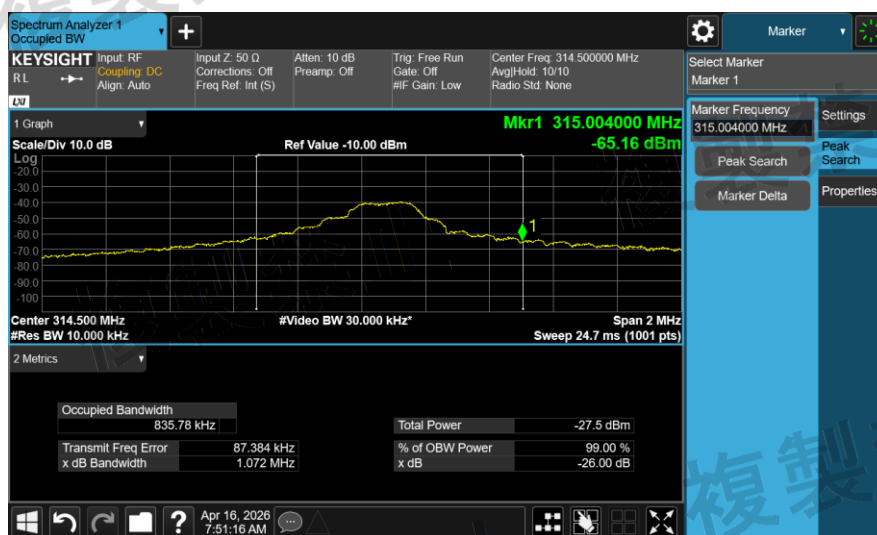
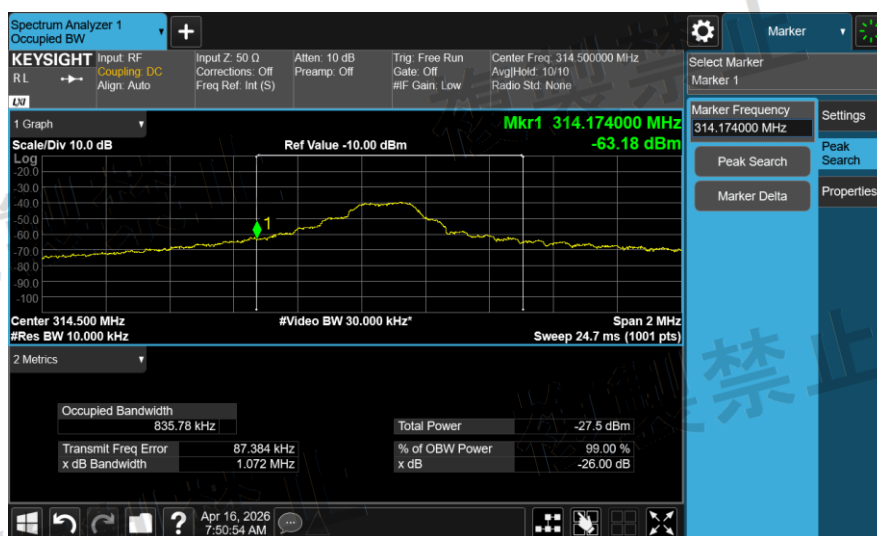
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Frequency(MHz)	Limit(MHz)	Result
315	$312 \leq f \leq 315.25$	Pass

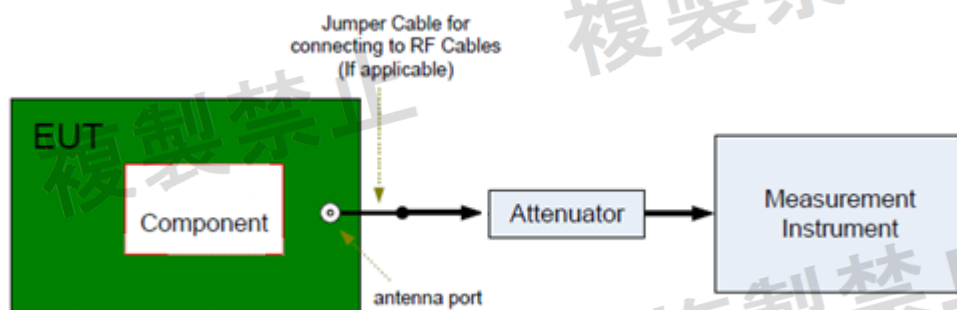
3.3 Occupied Bandwidth

3.3.1 Test Method

6. Connect EUT test port to spectrum analyzer.
7. Set the EUT to transmit maximum output power at 315MHz.
8. RBW=10K, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
9. Allow the trace to stabilize, record the frequency value.

3.3.2 Test Setup:

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The press a button of the EUT is to emit the specified signals for the purpose of measurements.

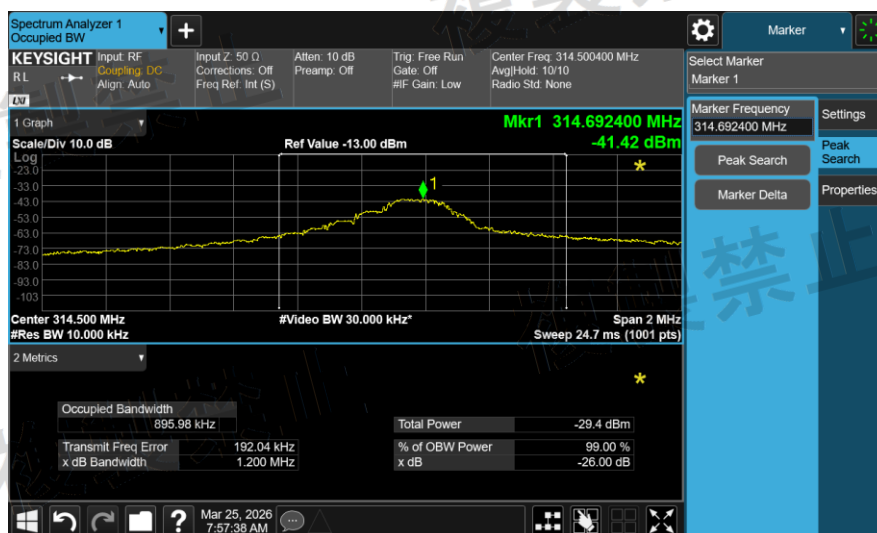


3.3.3 Limit

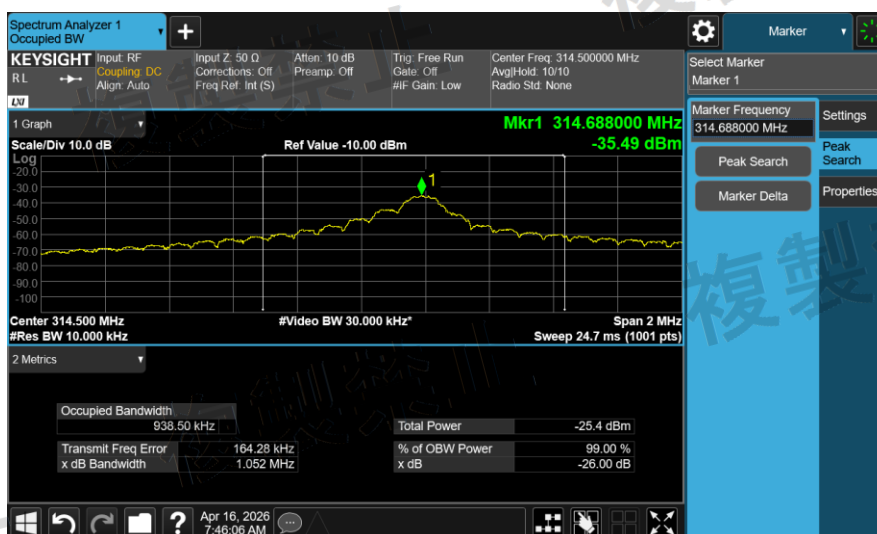
<1MHz

3.3.4 Test result

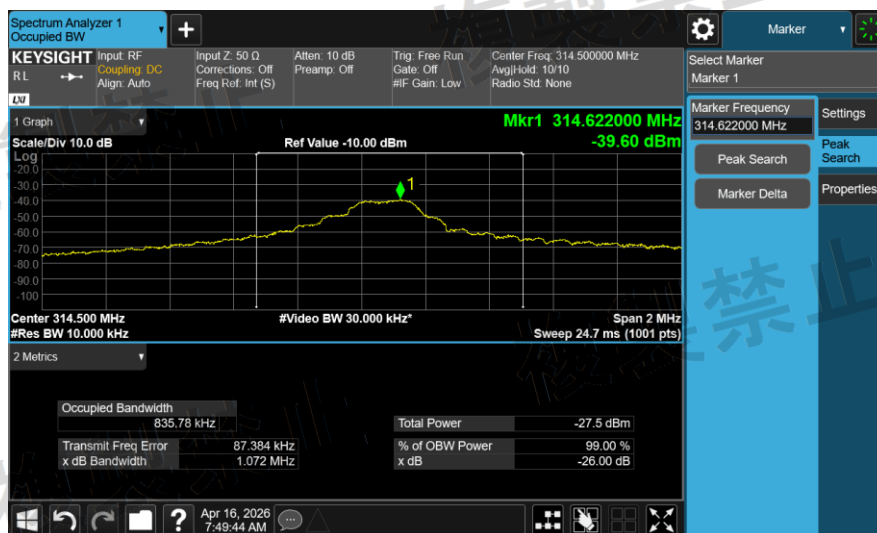
Test Condition	99% Bandwidth (KHz)	Limit (KHz)	Result
NTNV	895.98	1000	Pass



Test Condition	99% Bandwidth (KHz)	Limit (KHz)	Result
NTLV	938.50	1000	Pass



Test Condition	99% Bandwidth (KHz)	Limit (KHz)	Result
NTHV	835.78	1000	Pass



The equipment met the requirement of this clause.

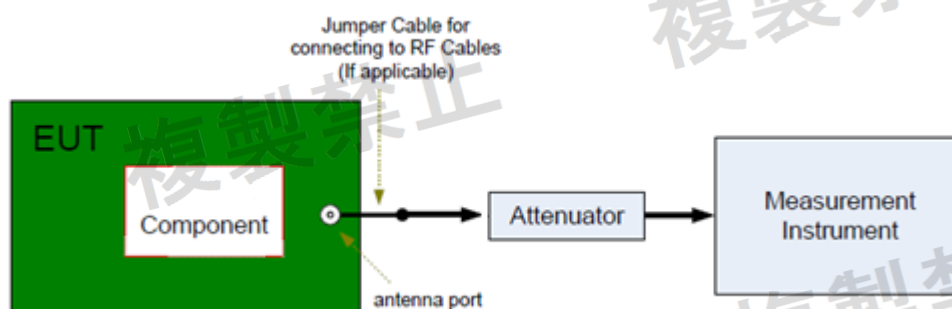
3.4 Fundamental Emission Pulsed Operation

3.4.1 Test Method:

Measurements of duty cycle and transmission duration shall be performed using the following techniques:

- a) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.4.2 Test Setup:



3.4.3 Limit

Transmit cyclically

Transmission Time(Once); within 1 second

Pause Time; over 10 second and over 30 times of "Transmission Time"

Not transmit cyclically

Transmission Time(Once); within 5 second/Transmission Time (Once, Manual Case); within 90 second

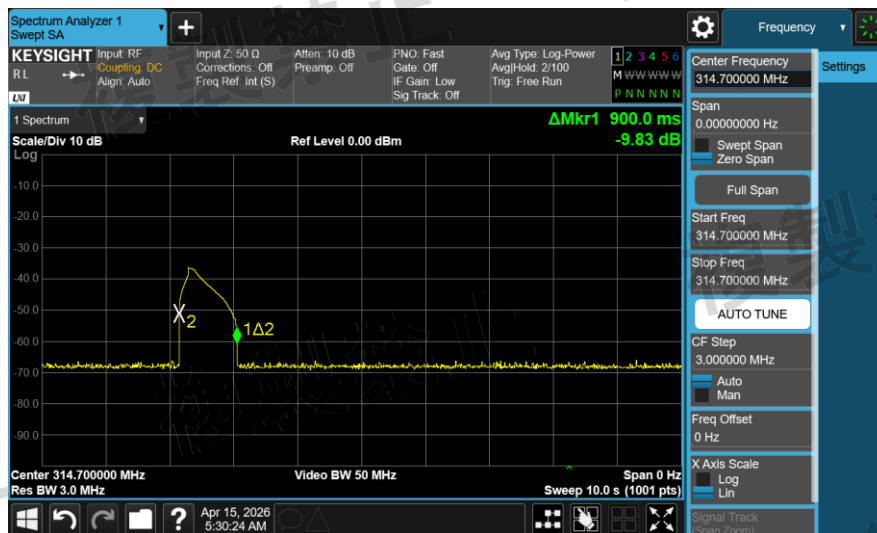
Continuous transmission(Intermittent communication possible).

3.4.4 Test Result

Test Condition	Frequency (MHz)	On time (s)	Limit (s)	Result
NTNV	315MHz	1.41	5	Pass



Test Condition	Frequency (MHz)	On time (s)	Limit (s)	Result
NTV	315MHz	0.9	5	Pass

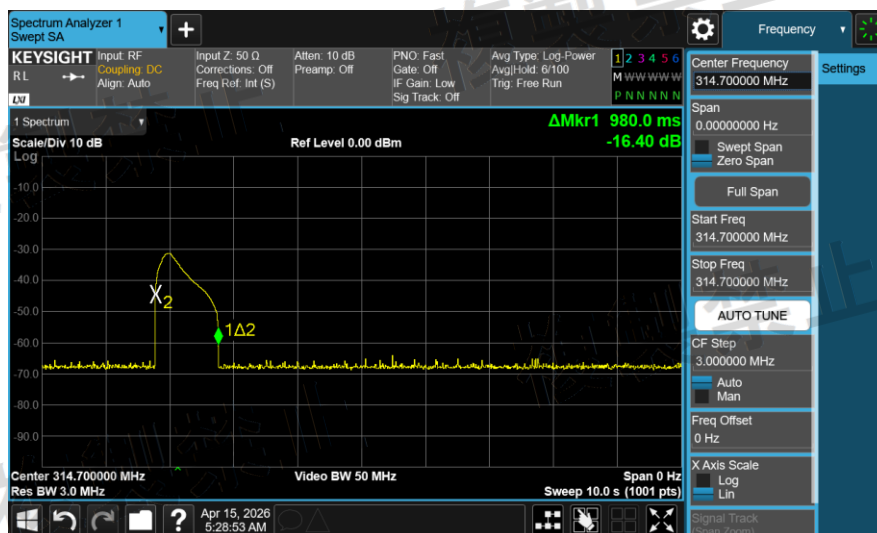


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Test Condition	Frequency (MHz)	On time (s)	Limit (s)	Result
NTHV	315MHz	0.98	5	Pass



Test Result: Pass

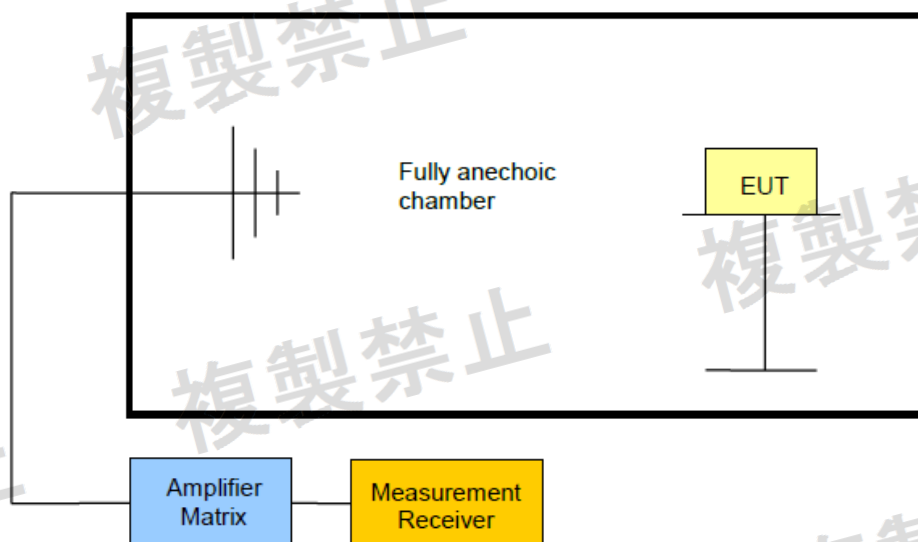
The equipment met the requirement of this clause.

3.5 Transmitter Spurious Emissions (For transmitter)

Test Method:

1. Connect EUT test port to spectrum analyzer.
2. Set the EUT to transmit maximum output power at 315MHz.
3. Set Frequency range : 30MHz – 12.75GHz
4. Set RBW = 100KHz, VBW $\geq$ RBW(30MHz-1GHz)
Set RBW = 1MHz, VBW $\geq$ RBW(1GHz-12.75GHz)
5. Set Sweep = auto.
6. Set Detector function = peak.
7. Allow the trace to stabilize.
8. Repeat above procedures until all frequencies measured were complete.

Test Setup:

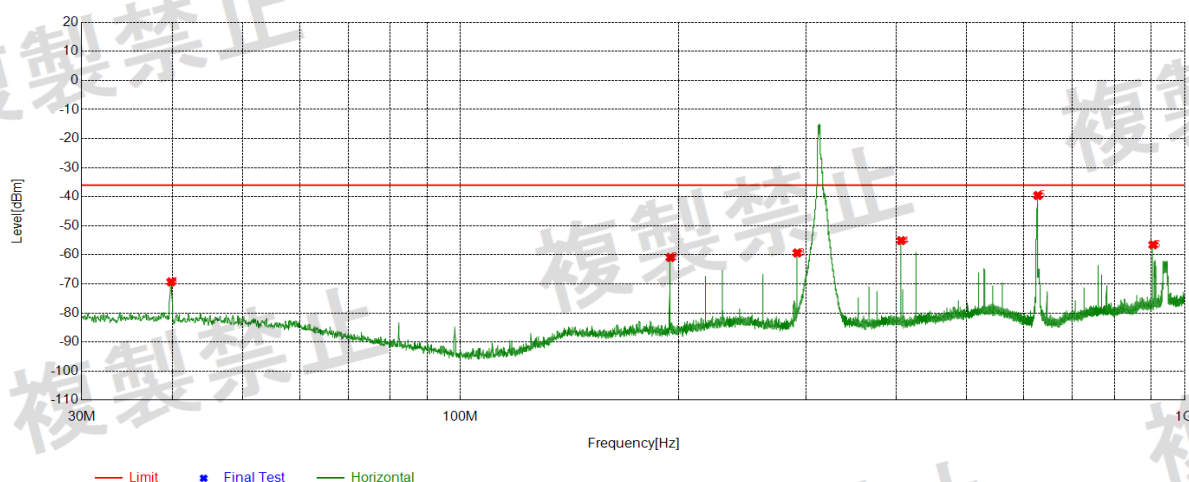


3.5.1 Limit

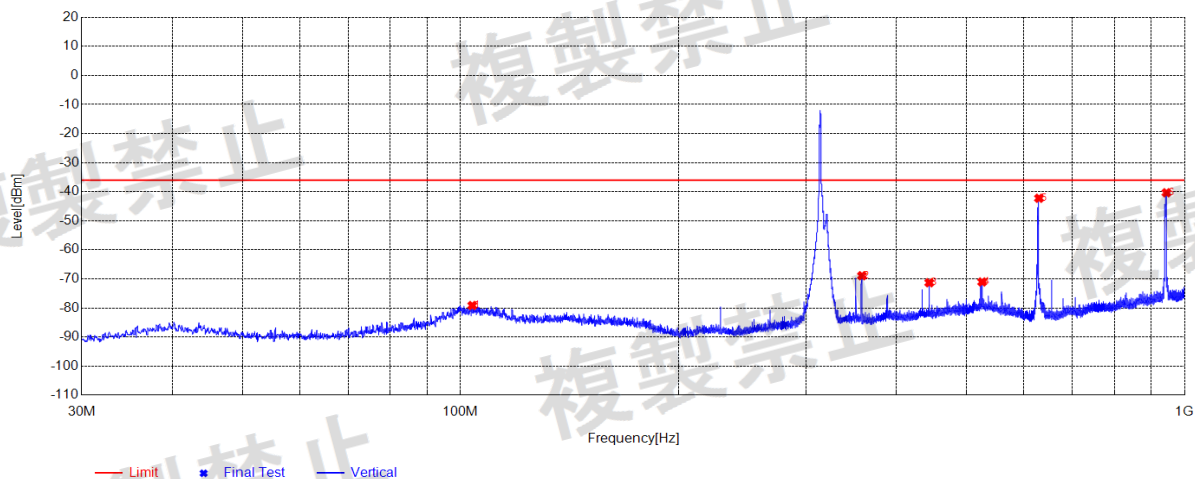
Frequency Band	Limit	Reference bandwidth
1GHz or less	250nW(e.i.r.p) or less	100 KHz
More than 1GHz	1 μ W(e.i.r.p) or less	1 MHz

3.5.2 Test Result

NTNV
30MHz-1GHz



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.846	-68.40	-69.30	-36.00	33.30	-0.90	Horizontal
2	194.9082	-52.72	-60.88	-36.00	24.88	-8.16	Horizontal
3	291.7676	-54.13	-59.35	-36.00	23.35	-5.22	Horizontal
4	406.0393	-51.14	-55.10	-36.00	19.10	-3.96	Horizontal
5	627.1134	-38.98	-39.59	-36.00	3.59	-0.61	Horizontal
6	904.6927	-60.34	-56.53	-36.00	20.53	3.81	Horizontal



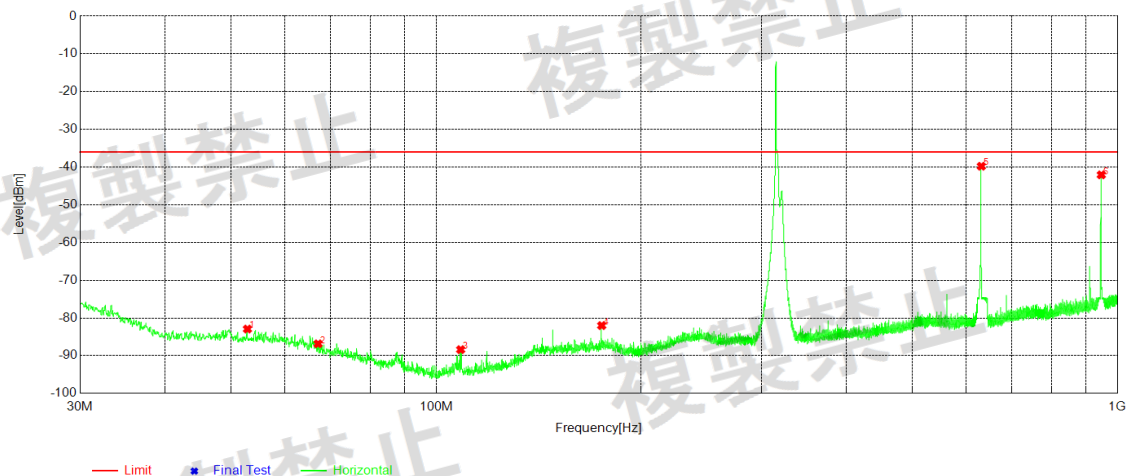
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	103.8207	-78.73	-79.14	-36.00	43.14	-0.41	Vertical
2	358.4584	-64.90	-68.90	-36.00	32.90	-4.00	Vertical
3	444.0652	-68.67	-71.31	-36.00	35.31	-2.64	Vertical
4	525.3068	-69.78	-71.04	-36.00	35.04	-1.26	Vertical
5	629.393	-41.66	-42.25	-36.00	6.25	-0.59	Vertical
6	943.8342	-45.26	-40.35	-36.00	4.35	4.91	Vertical

1GHz-12.75GHz

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1290	-68.79	-54.99	13.80	-30.00	24.99	Horizontal	PK	PASS
2	2016.75	-68.47	-53.00	15.47	-30.00	23.00	Horizontal	PK	PASS
3	4399.6125	-49.97	-56.08	-6.11	-30.00	26.08	Horizontal	PK	PASS
4	6501.7125	-52.03	-54.31	-2.28	-30.00	24.31	Horizontal	PK	PASS
5	7665.8625	-52.34	-53.65	-1.31	-30.00	23.65	Horizontal	PK	PASS
6	9957.6	-54.76	-52.27	2.49	-30.00	22.27	Horizontal	PK	PASS

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1291	-68.93	-56.39	12.54	-30.00	26.39	Vertical	PK	PASS
2	1840.25	-68.34	-53.74	14.60	-30.00	23.74	Vertical	PK	PASS
3	3838.5	-49.36	-55.24	-5.88	-30.00	25.24	Vertical	PK	PASS
4	5233.2375	-51.92	-56.90	-4.98	-30.00	26.90	Vertical	PK	PASS
5	6281.85	-51.67	-53.17	-1.50	-30.00	23.17	Vertical	PK	PASS
6	9465.7125	-54.28	-52.93	1.35	-30.00	22.93	Vertical	PK	PASS

NTLV
30MHz-1GHz



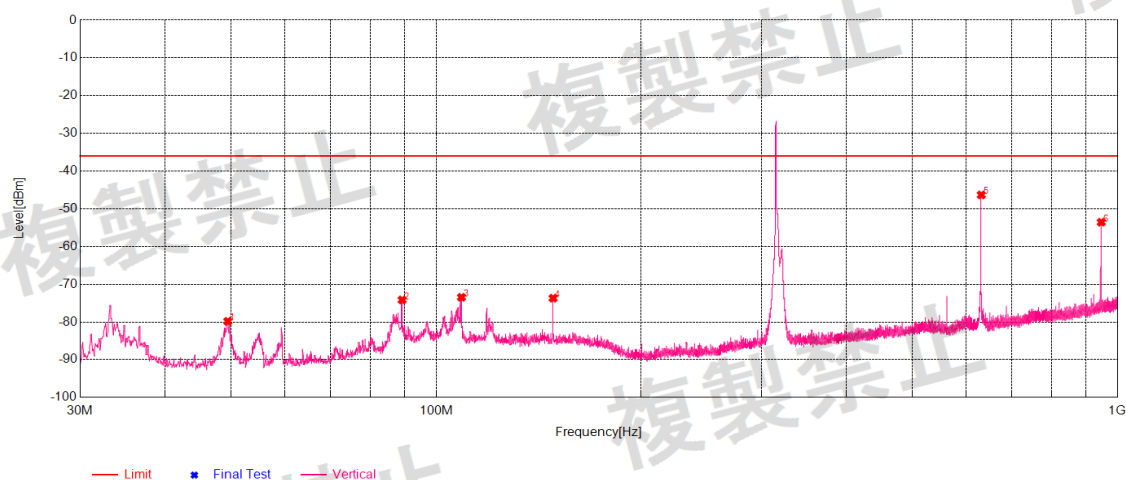
Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	52.85	-79.00	-82.93	-3.93	-36.00	46.93	Horizontal	PASS
2	67.1	-80.20	-86.84	-6.64	-36.00	50.84	Horizontal	PASS
3	108.65	-75.16	-88.38	-13.22	-36.00	52.38	Horizontal	PASS
4	175	-75.42	-82.01	-6.59	-36.00	46.01	Horizontal	PASS
5	631.4	-38.51	-39.78	-1.27	-36.00	3.78	Horizontal	PASS
6	947.1	-45.59	-42.06	3.53	-36.00	6.06	Horizontal	PASS

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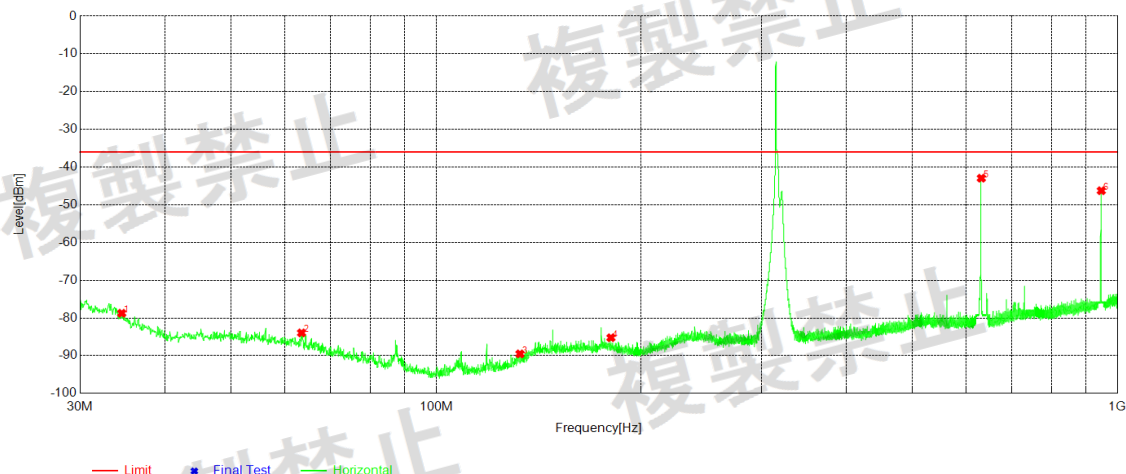


Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	49.45	-69.25	-79.82	-10.57	-36.00	43.82	Vertical	PASS
2	89.15	-69.56	-74.15	-4.59	-36.00	38.15	Vertical	PASS
3	108.95	-69.80	-73.45	-3.65	-36.00	37.45	Vertical	PASS
4	148.5	-70.05	-73.69	-3.64	-36.00	37.69	Vertical	PASS
5	631.4	-45.76	-46.31	-0.55	-36.00	10.31	Vertical	PASS
6	947.1	-57.28	-53.55	3.73	-36.00	17.55	Vertical	PASS

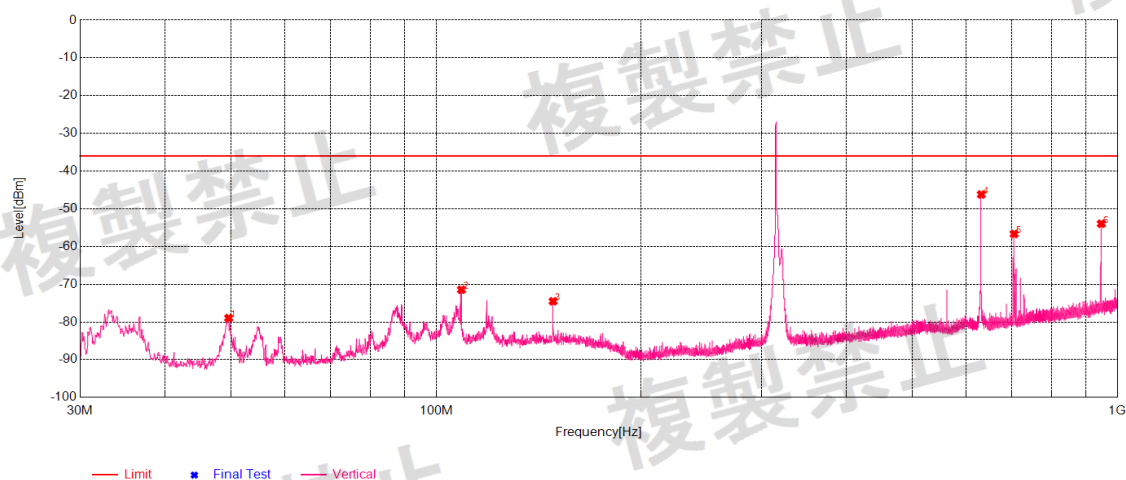
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1259.511	-21.64	-36.95	-15.31	-30.00	6.95	Horizontal	PK	PASS
2	1574.5244	-22.10	-38.80	-16.70	-30.00	8.80	Horizontal	PK	PASS
3	1889.5379	-22.34	-35.45	-13.11	-30.00	5.45	Horizontal	PK	PASS
4	2204.5513	-21.89	-33.72	-11.83	-30.00	3.72	Horizontal	PK	PASS
5	3149.5915	-32.69	-41.04	-8.35	-30.00	11.04	Horizontal	PK	PASS
6	5039.6719	-37.37	-43.08	-5.71	-30.00	13.08	Horizontal	PK	PASS

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1259.511	-27.68	-43.83	-16.15	-30.00	13.83	Vertical	PK	PASS
2	1574.5244	-22.79	-39.18	-16.39	-30.00	9.18	Vertical	PK	PASS
3	1889.5379	-25.00	-38.26	-13.26	-30.00	8.26	Vertical	PK	PASS
4	2204.5513	-30.32	-42.15	-11.83	-30.00	12.15	Vertical	PK	PASS
5	3465.1049	-43.74	-52.56	-8.82	-30.00	22.56	Vertical	PK	PASS
6	4510.6494	-59.11	-65.17	-6.06	-30.00	35.17	Vertical	PK	PASS

NTHV
30MHz-1GHz



Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	34.55	-79.96	-78.74	1.22	-36.00	42.74	Horizontal	PASS
2	63.45	-78.38	-83.95	-5.57	-36.00	47.95	Horizontal	PASS
3	132.75	-79.51	-89.51	-10.00	-36.00	53.51	Horizontal	PASS
4	180.55	-78.69	-85.23	-6.54	-36.00	49.23	Horizontal	PASS
5	631.4	-41.67	-42.94	-1.27	-36.00	6.94	Horizontal	PASS
6	947.1	-49.79	-46.26	3.53	-36.00	10.26	Horizontal	PASS



Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Verdict
1	49.6	-68.37	-78.95	-10.58	-36.00	42.95	Vertical	PASS
2	108.95	-67.80	-71.45	-3.65	-36.00	35.45	Vertical	PASS
3	148.5	-70.87	-74.51	-3.64	-36.00	38.51	Vertical	PASS
4	631.4	-45.65	-46.20	-0.55	-36.00	10.20	Vertical	PASS
5	705.45	-57.14	-56.66	0.48	-36.00	20.66	Vertical	PASS
6	947.1	-57.69	-53.96	3.73	-36.00	17.96	Vertical	PASS

1GHz-12.75GHz

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1260.0111	-25.19	-40.47	-15.28	-30.00	10.47	Horizontal	PK	PASS
2	1574.5244	-21.38	-38.08	-16.70	-30.00	8.08	Horizontal	PK	PASS
3	1890.0379	-23.48	-36.57	-13.09	-30.00	6.57	Horizontal	PK	PASS
4	2204.5513	-25.02	-36.85	-11.83	-30.00	6.85	Horizontal	PK	PASS
5	2834.5781	-30.36	-40.06	-9.70	-30.00	10.06	Horizontal	PK	PASS
6	5039.6719	-42.29	-48.00	-5.71	-30.00	18.00	Horizontal	PK	PASS

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1259.511	-25.62	-41.77	-16.15	-30.00	11.77	Vertical	PK	PASS
2	1574.5244	-20.52	-36.91	-16.39	-30.00	6.91	Vertical	PK	PASS
3	1889.5379	-21.78	-35.04	-13.26	-30.00	5.04	Vertical	PK	PASS
4	2204.5513	-26.55	-38.38	-11.83	-30.00	8.38	Vertical	PK	PASS
5	3464.6049	-39.43	-48.25	-8.82	-30.00	18.25	Vertical	PK	PASS
6	7245.2658	-56.14	-58.16	-2.02	-30.00	28.16	Vertical	PK	PASS

3.6 Interference prevention function

3.6.1 Limit

Item	Limits
Identification Code	≥48 bits

Measuring ID code Software
MAC IP List: MAC Scan

3.6.2 Test Procedure

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

3.6.3 Conditions of Equipment under Test

Required normal mode of the applicable equipment (EUT)

3.6.4 TEST RESULTS

The 315MHz Wireless Call Chime automatic identification between the transmitter and receiver through RF carrier synchronization.

After the verification is passed, it is automatically recognized as a valid trigger signal and the bell will ring

End