

TEST REPORT

Report No..... : KS2504S1826E

FCC ID..... : 2AGOFRC478C

Applicant..... : HCS (Suzhou) Limited

Address..... : 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R.China

Manufacturer..... : ASUSTek Computer Inc.

Address..... : 1F., NO. 15, LIDE RD., BEITOU DIST., TAIPEI CITY 11259 Taiwan

Product Name..... : Remote Control

Trademark..... :  ASUS,

Model/Type reference..... : RC4782206/01RP, RC4782207/01RP, RC478XXXX/XXRP, RC478XXXX/XXBRP ('X'=0-9, 'B' means packed with battery)

Standard..... : 47 CFR Part 15, Subpart B

Date of Receipt..... : April 18, 2025

Date of Test Date..... : April 19, 2025 to May 7, 2025

Date of issue..... : August 1, 2025

Test result..... : Pass

Conclusion..... : The submitted sample was found to COMPLY with the standards above.

Prepared by:

Name: Chad Lin
Title: Project Engineer



Approved by:

Name: Sky Dong
Title: EMC Supervisor



Testing Laboratory Name...: KSIGN(Guangdong) Testing Co., Ltd.

Address..... : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

TRF No. EMC_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

47 CFR Part 15, Subpart B: Unintentional Radiators

1.2. Report Version

Revised No.	Date of issue	Description
01	August 1, 2025	Original

1.3. Test Description

Test Item	Standard	Requirement	Result
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass
Radiated emissions (Above 1GHz)	47 CFR Part 15, Subpart B	15.109, Class B	Pass

1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd .

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L 13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED# : 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

FCC-Registration No.: 294912 Designation Number: CN1328

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty
RE (30-1000MHz)	± 5.7dB
RE (1-18GHz)	± 4.68dB

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %. Otherwise required by the applicant or Product Regulations. Decision Rule in this report did not consider the uncertainty.

2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	KS2504S1826E-01
Product Name:	Remote Control
Trademark:	ASUS, 
Model / Type reference:	RC4782206/01RP, RC4782207/01RP, RC478XXXX/XXRP, RC478XXXX/XXBRP ('X'=0-9,'B'means packed with battery)
Model Different:	The difference between the product models is the model name. Different model names are available to meet market demand. Other power supply methods, internal structures, circuits and key components are the same, and do not affect safety and electromagnetic compatibility performance. According to the above information, all tests were performed on model RC4782206/01RP .
Power Supply:	DC3V by Battery
Highest Internal Frequency:	Above 1GHz
Classification of Equipment:	Class B

2.2. Accessory Equipment Information

The EUT was tested as an independent device.

2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	normal Work	Keep the EUT in working mode

2.4. Measurement Instruments List

Radiated emissions (Above 1GHz)				
Radiated emissions (Below 1GHz)				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Color Signal Generator	Philips	PM5418	672926	2025-12-22
Log Periodic Antenna	Schwarzbeck	VULB 9163	1230	2026-01-13
Pre-Amplifier	Schwarzbeck	BBV 9745	9745#129	2025-12-22
Broadcast Television Signal Generator	R&S	SFE100	141038	2025-12-22
Analog Signal Generator	Agilent	8648A	3847M00445	2025-12-22
EMI Test Receiver	R&S	ESR	102525	2026-01-10
Loop Antenna	Beijin ZHINAN	ZN30900C	18050	2025-12-22
Horn Antenna	Schwarzbeck	BBHA 9120 D	2023	2025-12-25
Pre-Amplifier	EMCI	EMC051835SE	980662	2025-12-22
Spectrum Analyzer	Keysight	N9020A	MY46471971	2025-12-22

3. Emission Test Results (EMI)

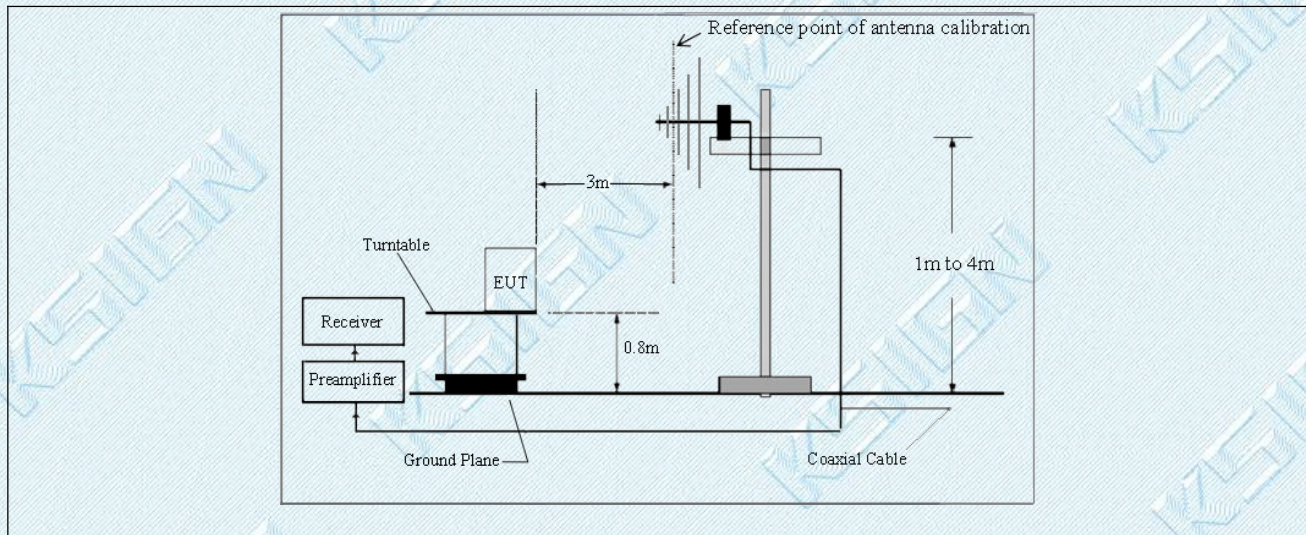
3.1. Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
	216 – 960	200	46	60	35.6
	Above 960	500	54	150	43.5
Test Method:	ANSI C63.4-2014				
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

3.1.1. E.U.T. Operation:

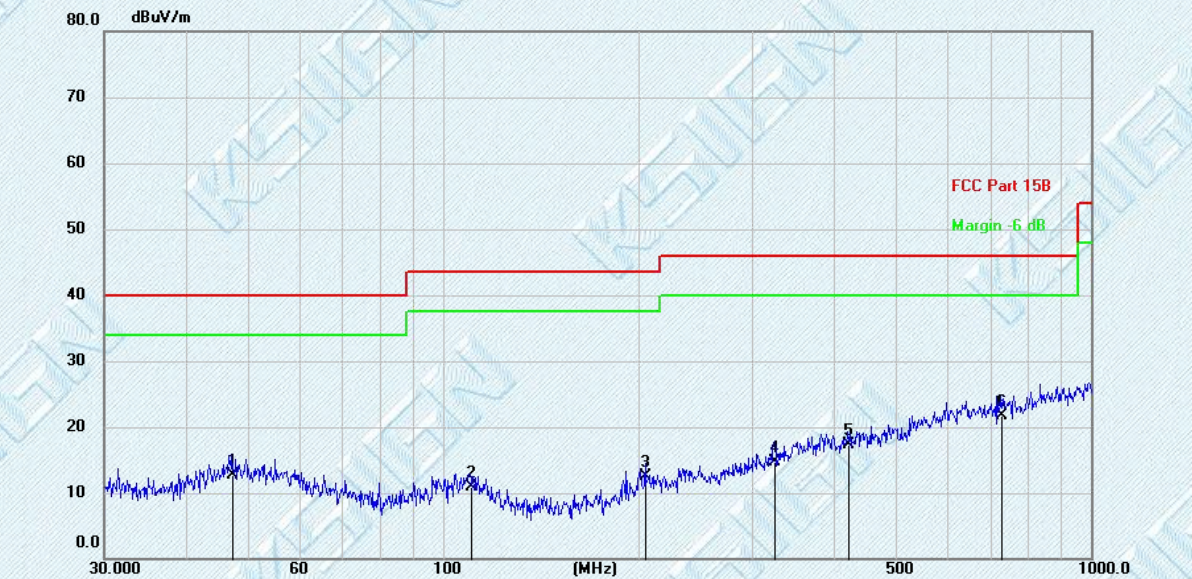
Operating Environment:	
Temperature:	23.5 °C
Humidity:	48 %
Atmospheric Pressure:	101 kPa
Final test mode:	Test Mode1

3.1.2. Test Setup Diagram:

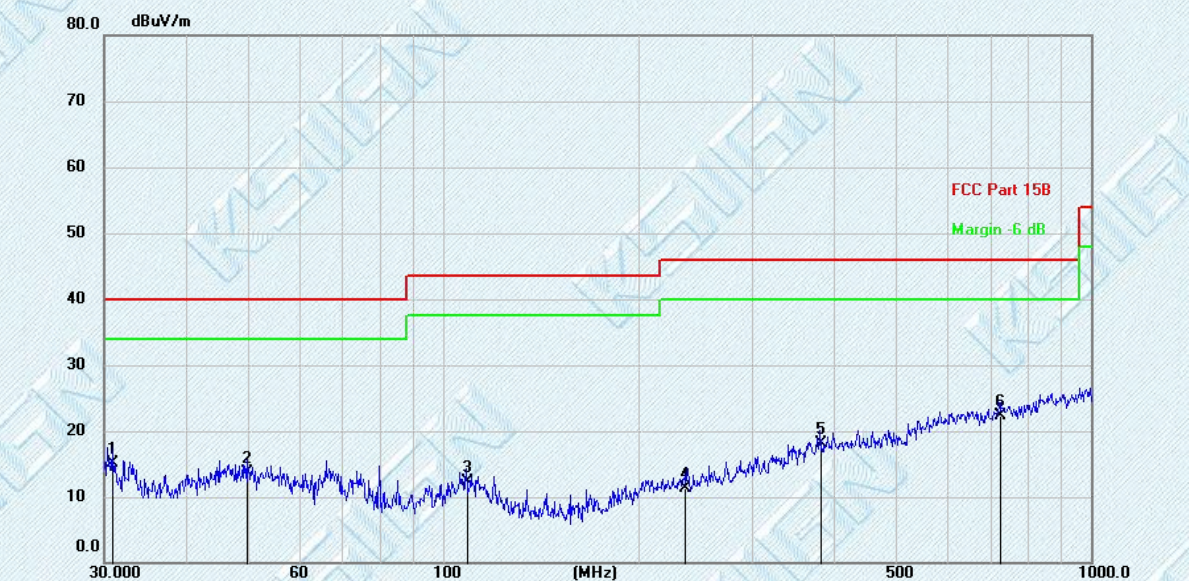


3.1.3. Test Data:

Test Mode1 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		47.2591	22.02	-9.28	12.74	40.00	-27.26	QP
2		110.5300	22.10	-11.15	10.95	43.50	-32.55	QP
3		205.0989	24.48	-12.03	12.45	43.50	-31.05	QP
4		324.3423	22.94	-8.14	14.80	46.00	-31.20	QP
5		420.8753	23.85	-6.46	17.39	46.00	-28.61	QP
6	*	728.8469	23.35	-1.68	21.67	46.00	-24.33	QP

Test Mode1 / Polarization: Vertical


No. Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1	30.9076	26.67	-11.57	15.10	40.00	-24.90	QP
2	49.8290	23.48	-9.73	13.75	40.00	-26.25	QP
3	108.7232	23.33	-11.06	12.27	43.50	-31.23	QP
4	235.9818	22.30	-11.02	11.28	46.00	-34.72	QP
5	381.5161	24.79	-6.71	18.08	46.00	-27.92	QP
6 *	726.5504	24.03	-1.80	22.23	46.00	-23.77	QP

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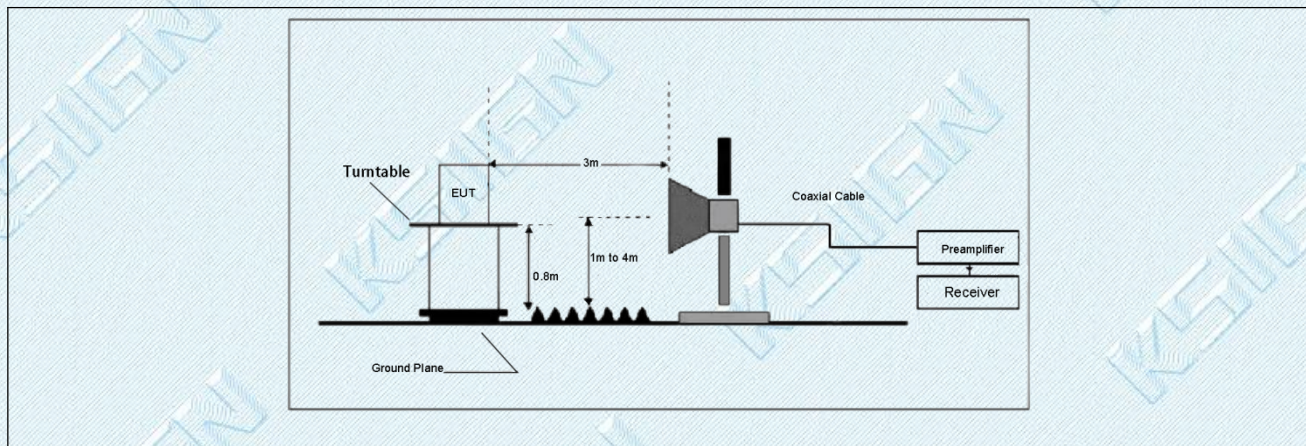
3.2. Radiated emissions (Above 1GHz)

Test Requirement:	15.109, Class B			
Test Limit:	Frequency of emission (MHz)	Field strength @3m		
		Average (uV/m)	Average(dB uV/m)	Peak (dBuV/m)
	Above 1GHz	500	54	74
Test Method:	ANSI C63.4-2014			
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. For below 1GHz test, Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. For above 1GHz test, Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor			

3.2.1. E.U.T. Operation:

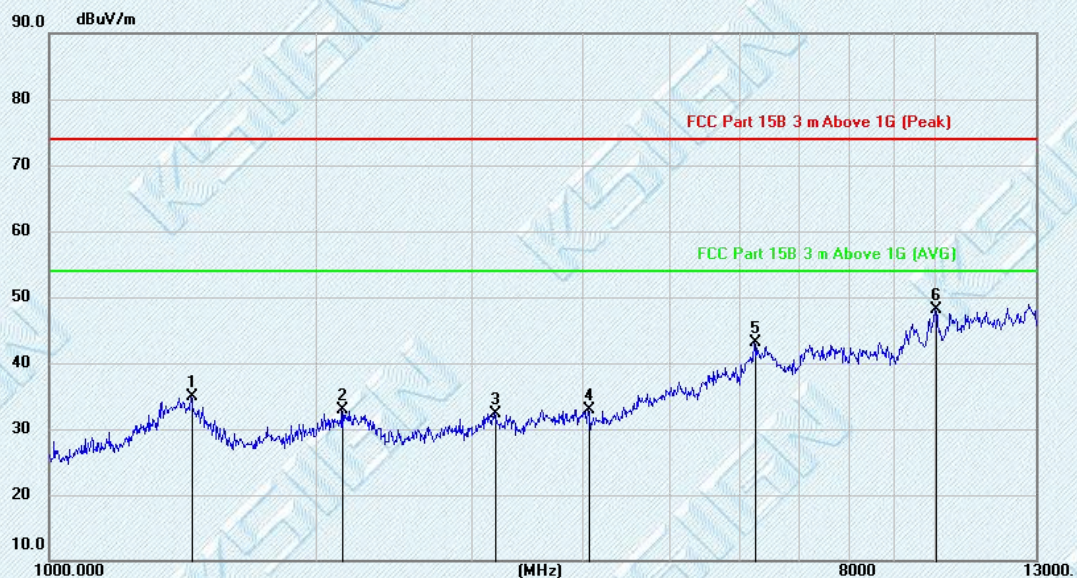
Operating Environment:	
Temperature:	23.5 °C
Humidity:	48 %
Atmospheric Pressure:	101 kPa
Final test mode:	Test Mode1

3.2.2. Test Setup Diagram:

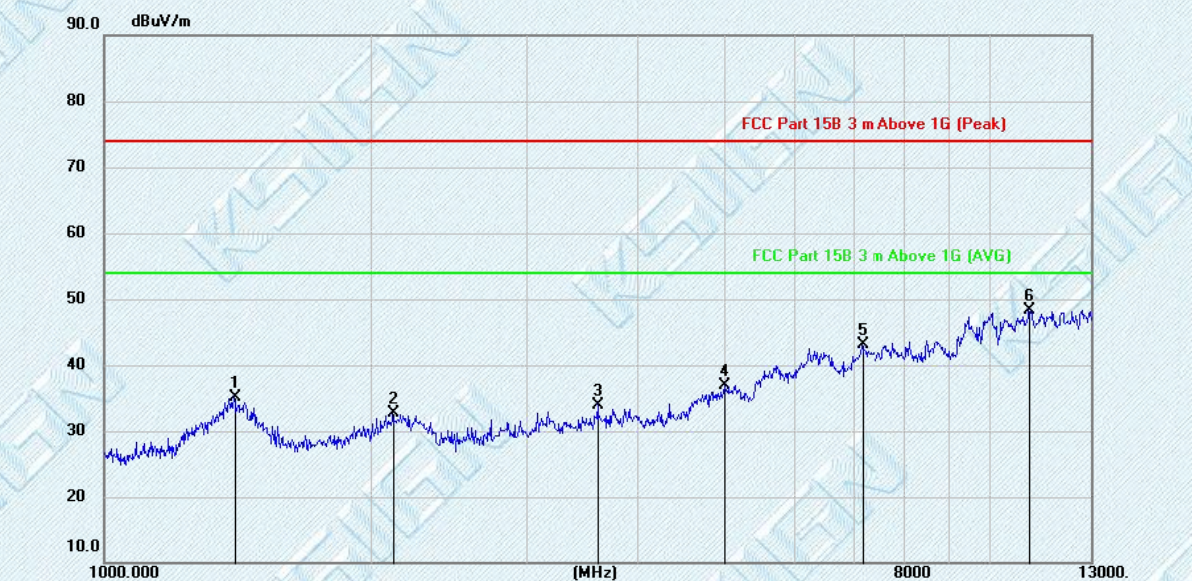


3.2.3. Test Data:

Test Mode1 / Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		1446.400	42.97	-8.12	34.85	74.00	-39.15	peak
2		2142.400	42.25	-9.29	32.96	74.00	-41.04	peak
3		3185.200	42.02	-9.67	32.35	74.00	-41.65	peak
4		4066.000	42.26	-9.28	32.98	74.00	-41.02	peak
5		6245.200	40.27	2.75	43.02	74.00	-30.98	peak
6	*	10008.400	36.71	11.32	48.03	74.00	-25.97	peak

Test Mode1 / Polarization: Vertical


No.	Mk.	Freq. MHz	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
1		1402.000	42.70	-7.63	35.07	74.00	-38.93	peak
2		2120.800	42.12	-9.41	32.71	74.00	-41.29	peak
3		3606.400	42.67	-8.84	33.83	74.00	-40.17	peak
4		5011.600	41.35	-4.46	36.89	74.00	-37.11	peak
5		7165.600	37.39	5.73	43.12	74.00	-30.88	peak
6	*	11063.200	37.67	10.55	48.22	74.00	-25.78	peak

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4. EUT TEST PHOTOS

Radiated emissions (Below 1GHz)



Radiated emissions (Above 1GHz)



5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL







Internal

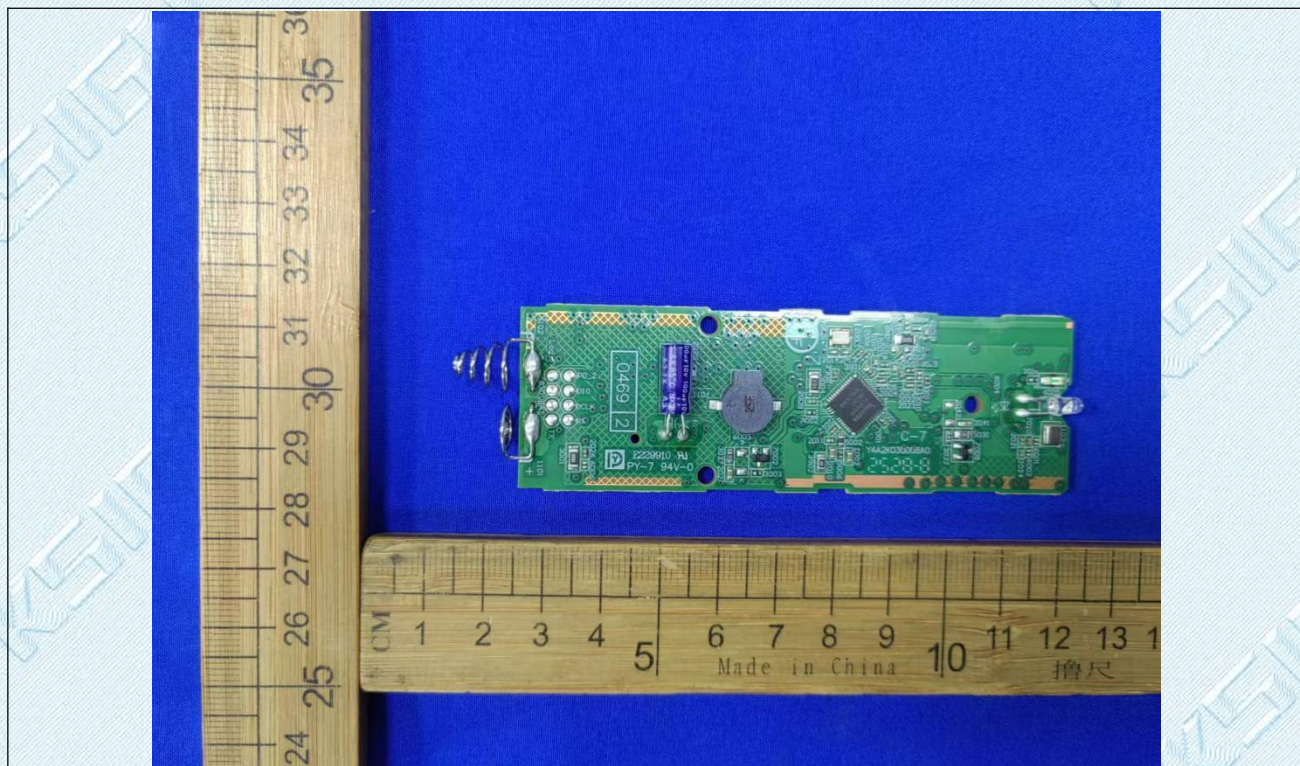


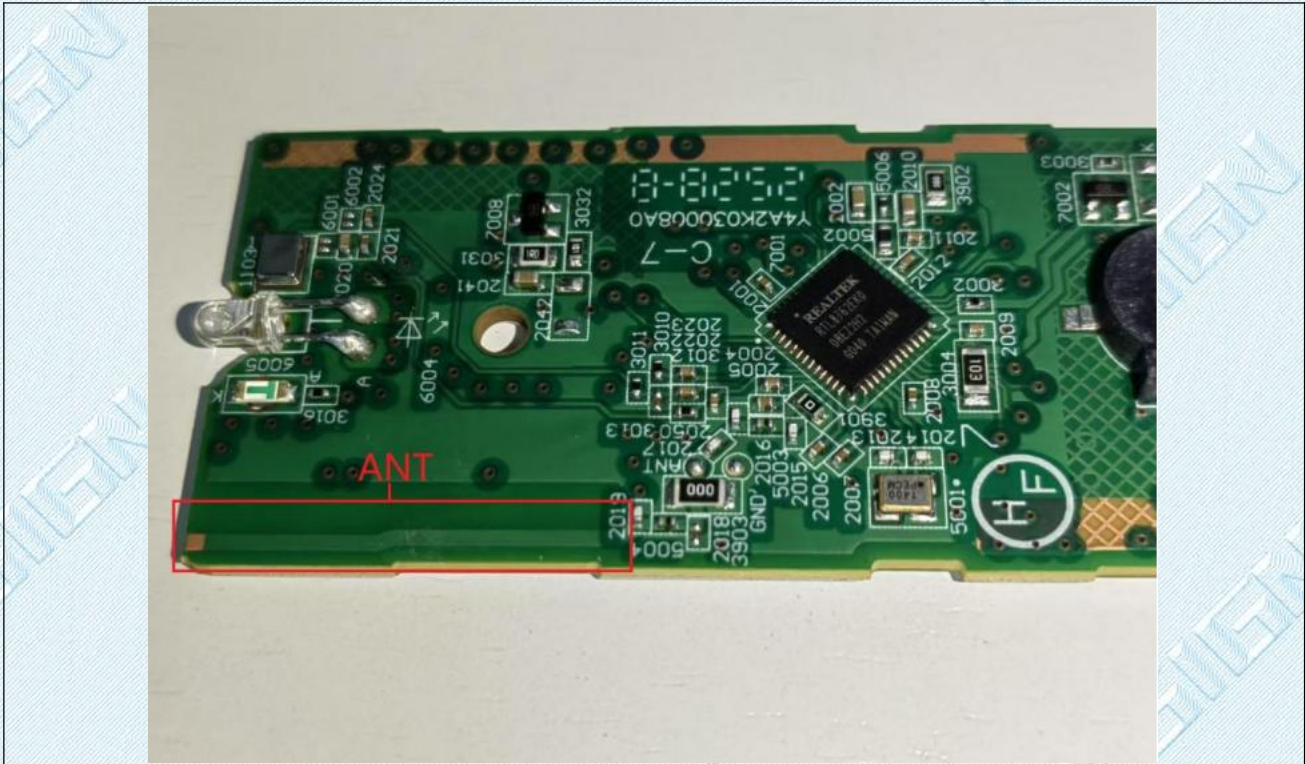


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--THE END--

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9. If you have any objections to this report, you can appeal to our unit within 15 days after receiving the report. Failure to do so will not be accepted.
10. For situations where compliance decision needs to be made based on test result, such as when there are no relevant decision rules required by the regulations, standards, or technical specifications used, or when there are no relevant customer requirements, the report issued by our laboratory refer to ILAC-G8:09-2019 and CNAS-GL015:2022 using simple acceptance decision rules.

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