

FCC TEST REPORT

For

Shenzhen Keruibao Technology Co., Ltd

Product Name: AERMOTOR

Test Model(s): EM415 PRO

Report Reference No. : DACE251215002RL001

FCC ID : 2BTYY-EM415

Applicant's Name : Shenzhen Keruibao Technology Co., Ltd

Address : No. 18, Century Industrial Zone, Egongling Community, Pinghu Street,
Longgang District, Shenzhen City 440

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,
Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,
Guangdong, China

Test Specification Standard : 47 CFR Part 15, Subpart B

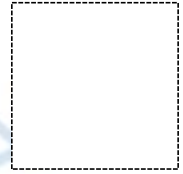
Date of Receipt : December 15, 2025

Date of Test : December 15, 2025 to December 23, 2025

Date of Issue : December 23, 2025

Result : Pass

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Apply for company information

Applicant's Name	:	Shenzhen Keruibao Technology Co., Ltd
Address	:	No. 18, Century Industrial Zone, Egongling Community, Pinghu Street, Longgang District, Shenzhen City 440
Product Name	:	AERMOTOR
Test Model(s)	:	EM415 PRO
Series Model(s)	:	EM285, EM415, EM286
Test Specification Standard(s)	:	47 CFR Part 15, Subpart B



NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

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December 23, 2025

Supervised by:

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December 23, 2025

Approved by:

Tom Chen / Manager

December 23, 2025

Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE251215002RL001	December 23, 2025

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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 Summary of Test Result

Item	Standard	Method	Requirement	Result
Radiated emissions (Below 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.109, Class B	Pass

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen Keruibao Technology Co., Ltd
Address : No. 18, Century Industrial Zone, Egongling Community, Pinghu Street, Longgang District, Shenzhen City 440

Manufacturer : Shenzhen Keruibao Technology Co., Ltd
Address : No. 18, Century Industrial Zone, Egongling Community, Pinghu Street, Longgang District, Shenzhen City 440

2.2 Description of Device (EUT)

Product Name:	AERMOTOR
Model/Type reference:	EM415 PRO
Series Model:	EM285, EM415, EM286
Model difference:	There are four models of the product, with differences in the color of the appearance and customer requirements for different models in the market, resulting in multiple models. However, the internal circuit boards, PCBs, BOMs, and other electrical structures of these models are the same, and these differences will not affect RF&EMC performance.
Trade Mark:	N/A
Product Description:	AERMOTOR
Power Supply:	DC9.0V
Hardware Version:	V1.0
Software Version:	V1.0

2.3 Description of Test Modes

No	Title	Description
TM1	Working	Power on and normal working mode

2.4 Description of Support Units

The EUT was tested as an independent device.

2.5 Equipments Used During The Test

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Cable(HF)2	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(HF)1	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(LF)2	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Cable(LF)1	SCHWARZ BECK	50Ω	/	2025-04-18	2026-04-17
Control	MF	MF-7802	MF780208362	2025-12-02	2026-12-01
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2025-04-28	2026-04-27
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2025-04-18	2026-04-17
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3 Emission Test Results (EMI)

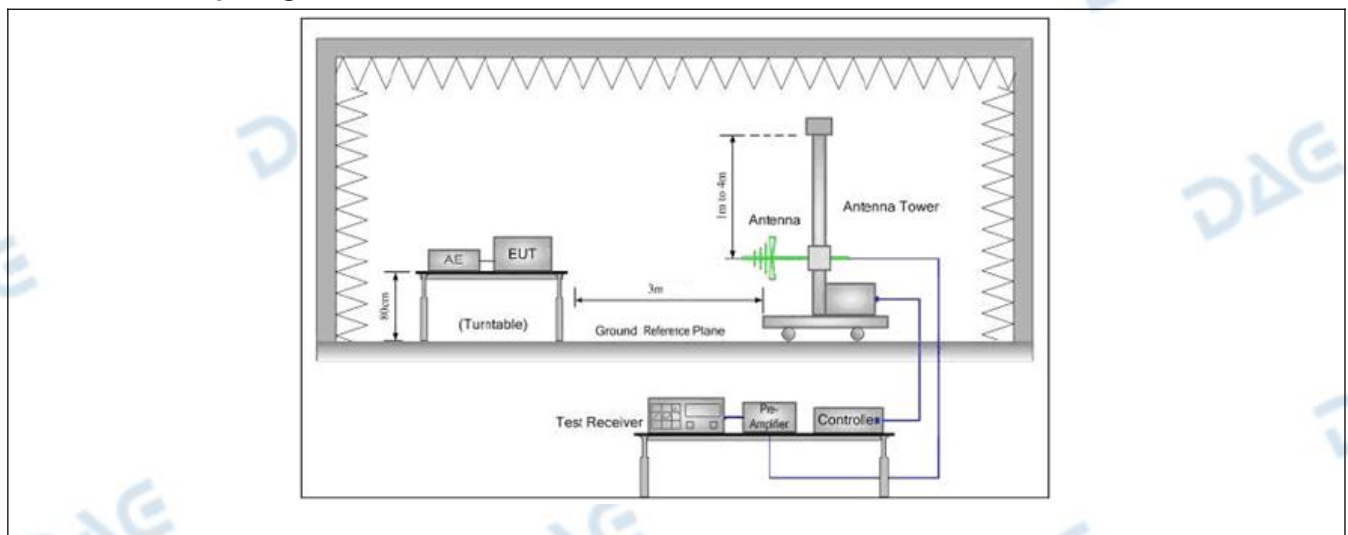
3.1 Radiated emissions (Below 1GHz)

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: <table> <tr> <th rowspan="2">Frequency of emission (MHz)</th><th colspan="2">Field strength @3m</th><th colspan="2">Field strength @10m</th></tr> <tr> <th>(uV/m)</th><th>(dBuV/m)</th><th>(uV/m)</th><th>(dBuV/m)</th></tr> <tr> <td>30 – 88</td><td>100</td><td>40</td><td>30</td><td>29.5</td></tr> <tr> <td>88 – 216</td><td>150</td><td>43.5</td><td>45</td><td>33.1</td></tr> <tr> <td>216 – 960</td><td>200</td><td>46</td><td>60</td><td>35.6</td></tr> <tr> <td>Above 960</td><td>500</td><td>54</td><td>150</td><td>43.5</td></tr> </table>				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
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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:

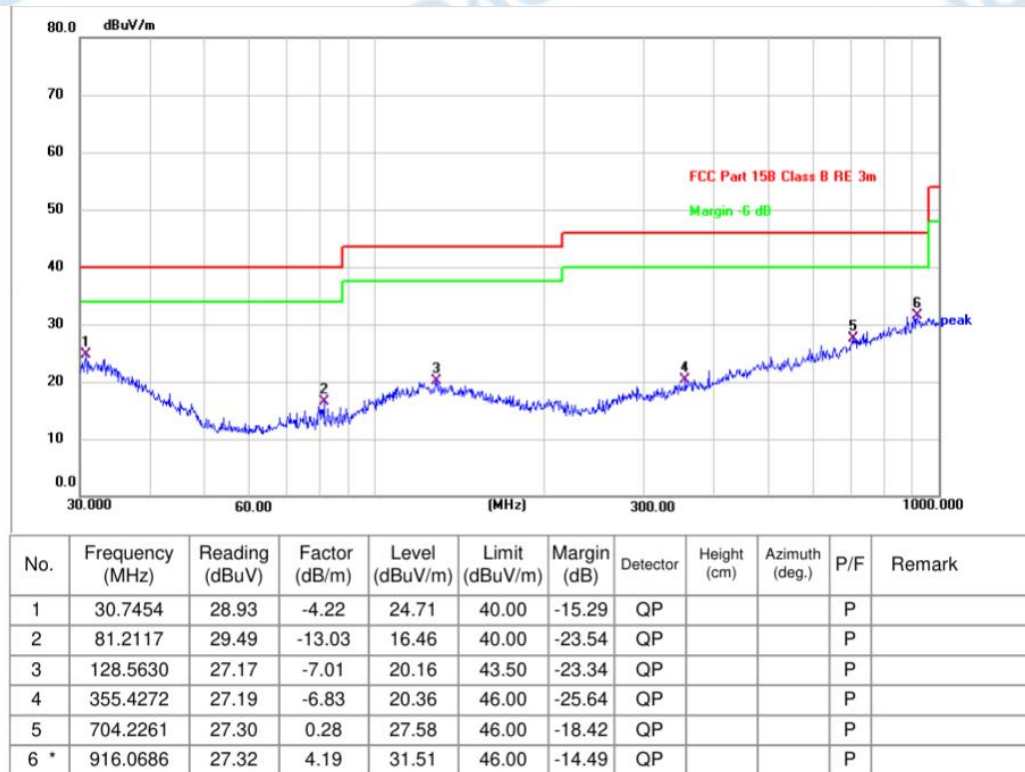
Operating Environment:					
Temperature:	23.9 °C	Humidity:	49 %	Atmospheric Pressure:	101.3 kPa
Pretest mode:	TM1				
Final test mode:	TM1				

3.1.2 Test Setup Diagram:

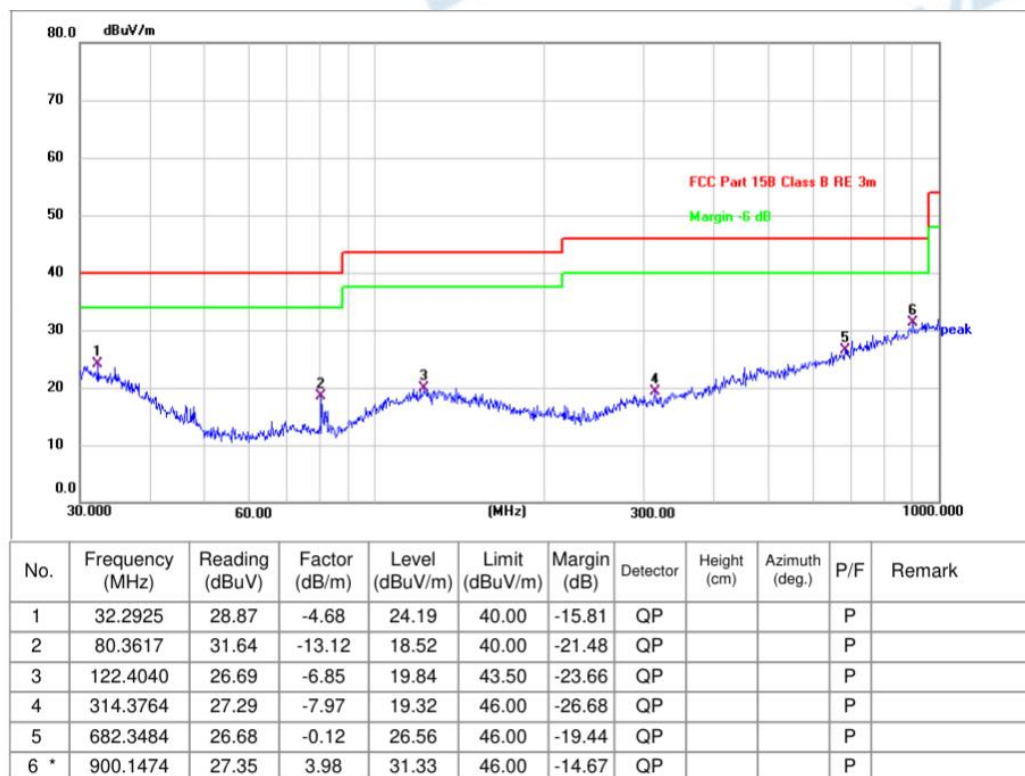


3.1.3 Test Data:

TM1 / Polarization: Horizontal

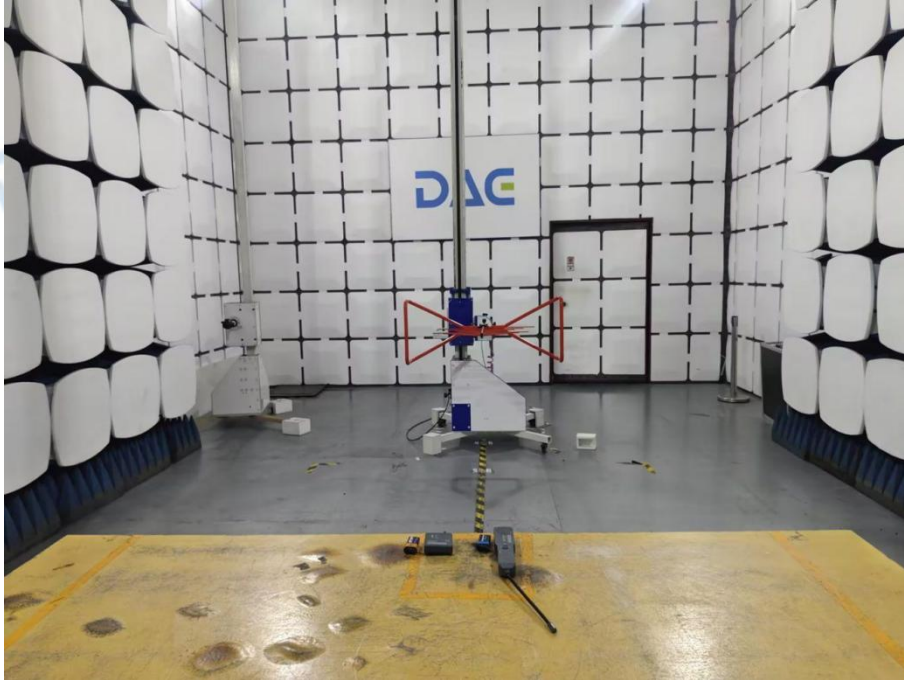


TM1 / Polarization: Vertical



4 TEST SETUP PHOTOS

Radiated emissions (Below 1GHz)



5 PHOTOS OF THE EUT

External



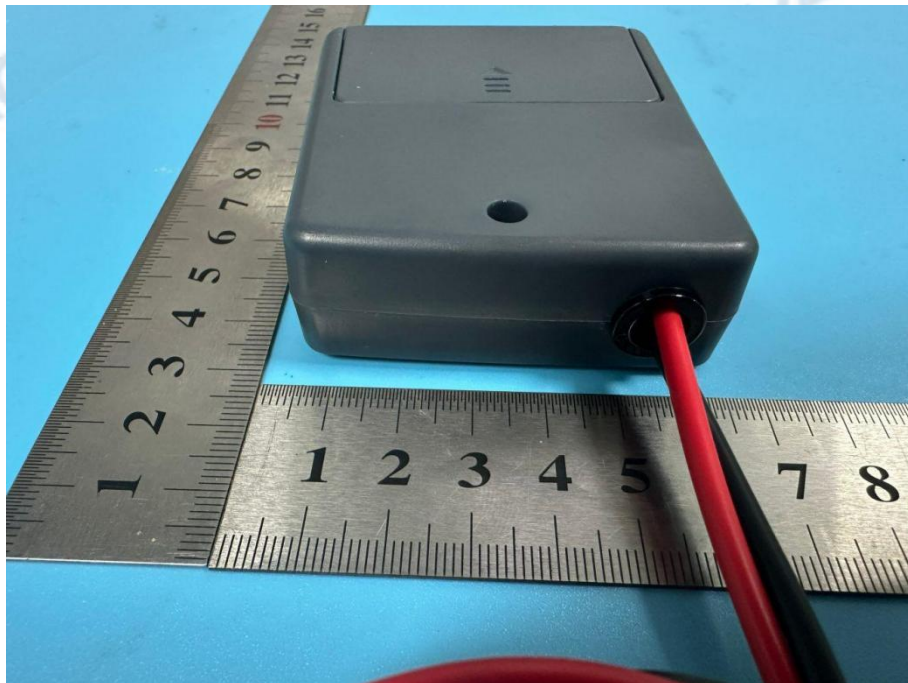
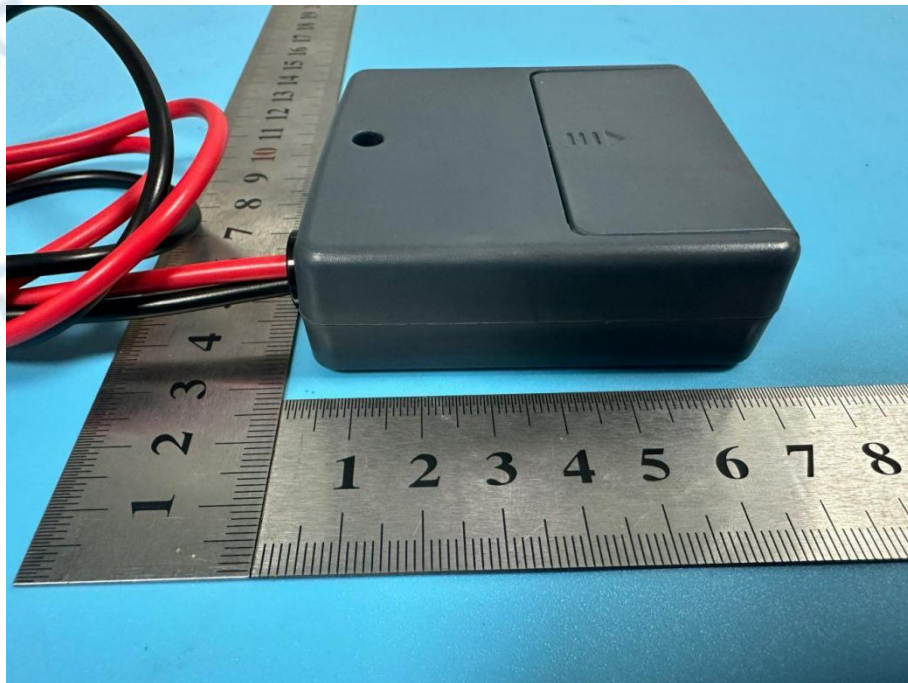




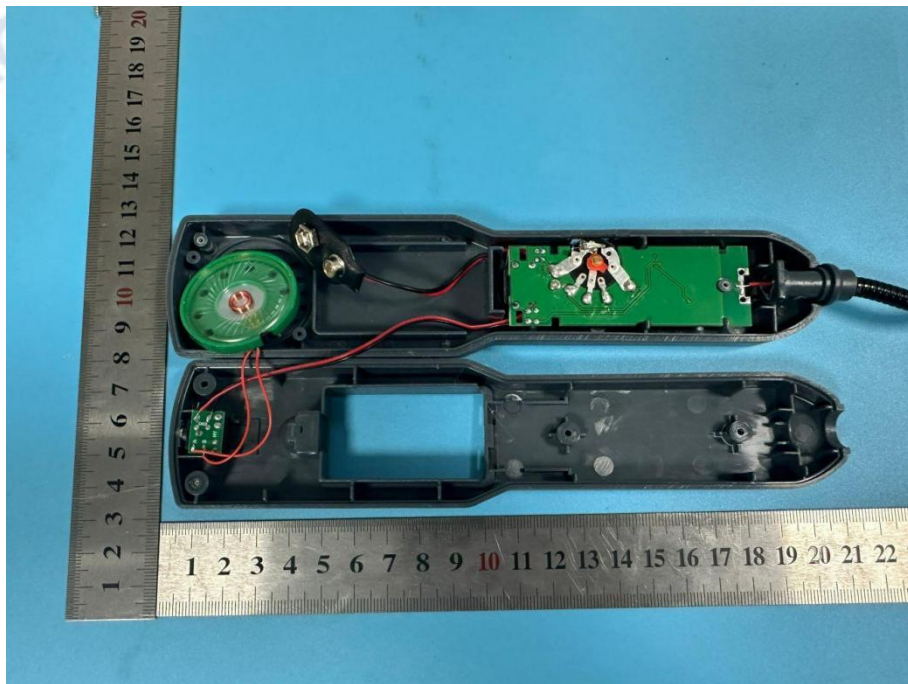


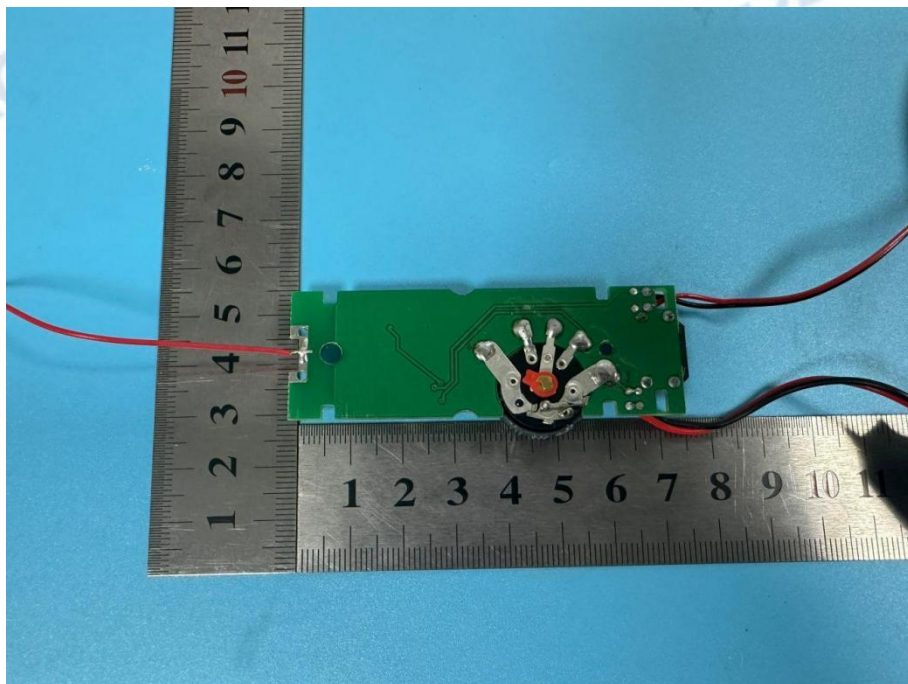
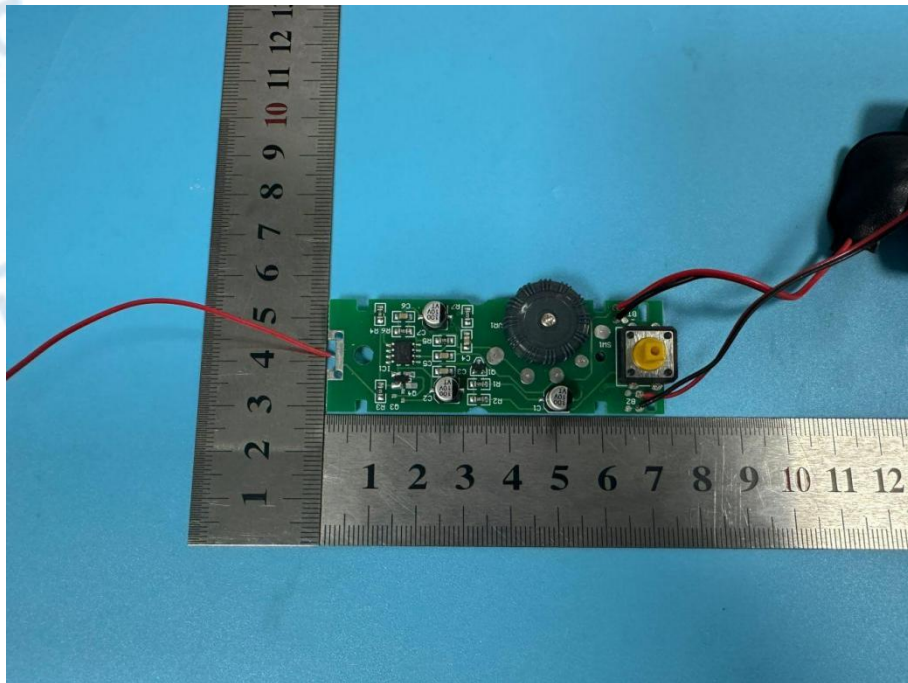


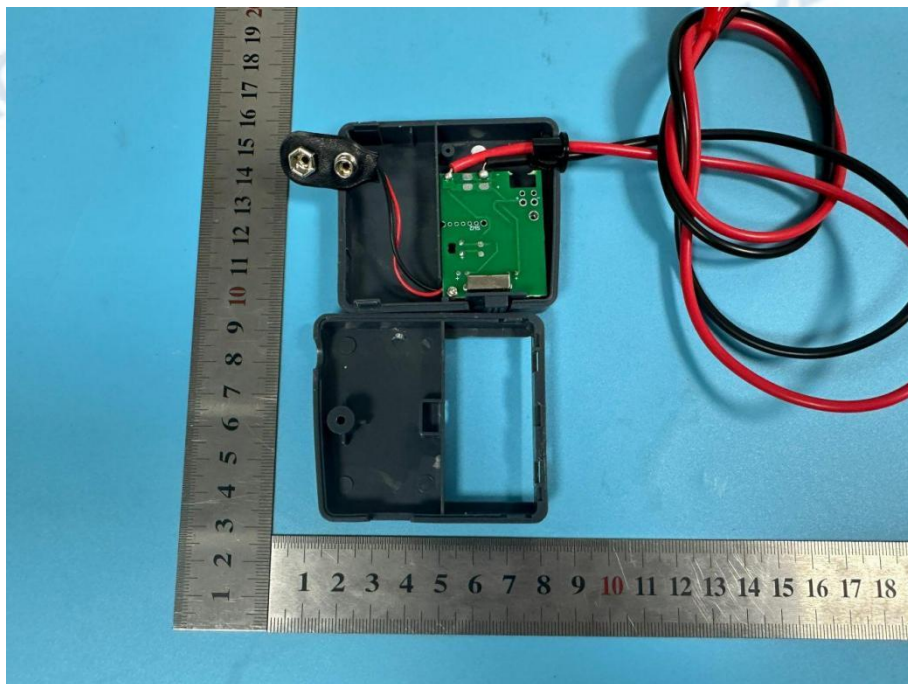


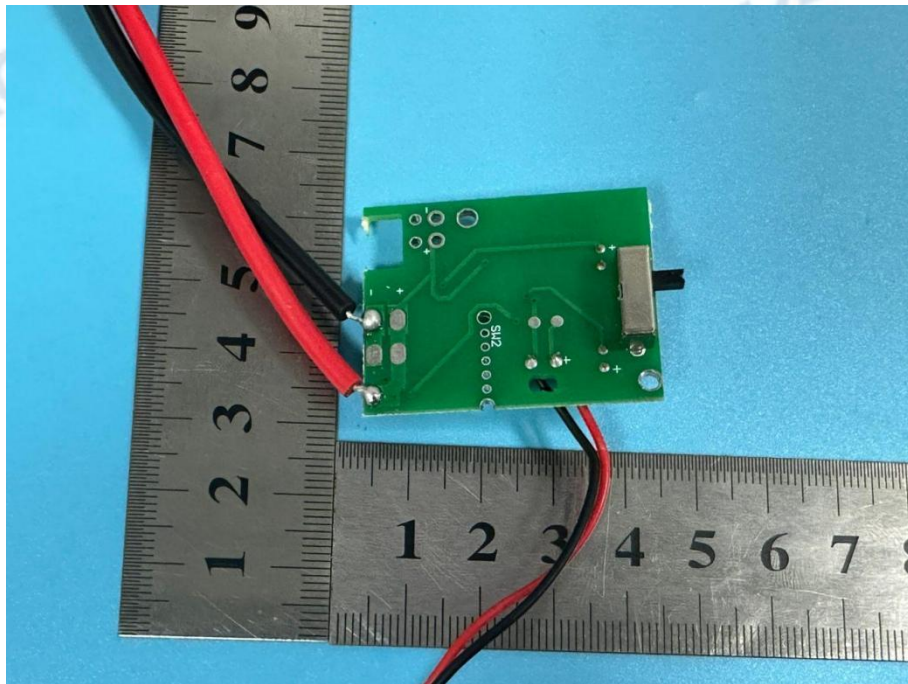
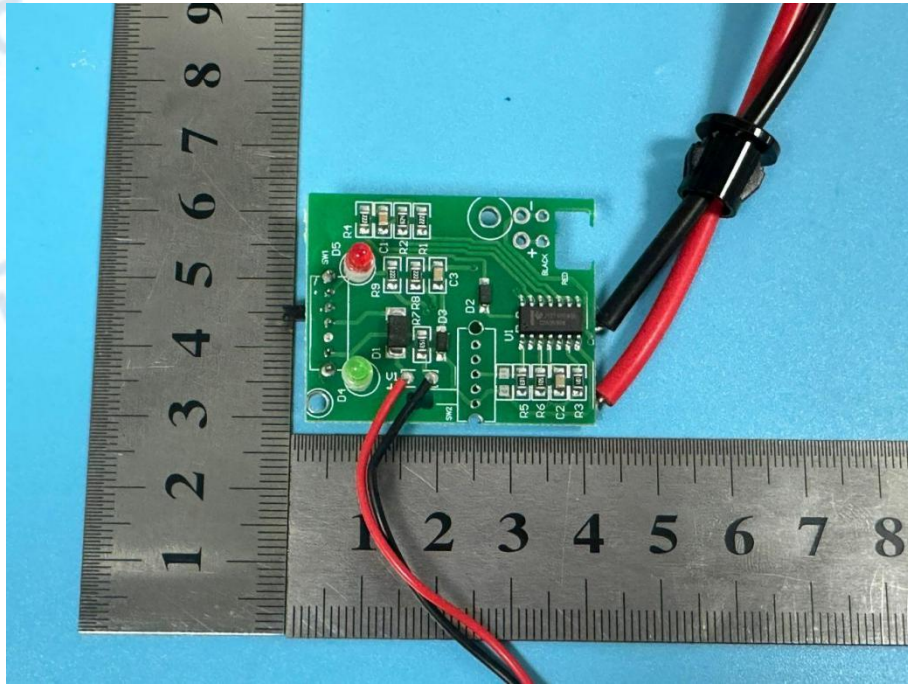


Internal









***** End of Report *****