

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 1 of 15

**Applicant**

: PETKIT Network Technology (Shanghai) Co., Ltd.

**Address of Applicant**

: Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai

**Product Name**

: PETKIT EVER SWEET MAX 2 (CORDLESS) SMART PET DRINKING FOUNTAIN

**Brand Name**

: PETKIT

**Model Name**

: P4116

**Sample Acquisition Method**

: Sent by Client

**Sample No.**

: E25060036-01#03

**FCC ID**

: 2A72N-P4116

**Standard**

: FCC Part 2.1091

**Date of Receipt**

: 2025-06-19

**Date of Test**

: 2025-07-02 ~ 2025-07-04

**Date of Issue**

: 2025-07-04

**Remark:**

*This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

Prepared by:



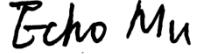
(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 2 of 15

## Contents

<b>1</b>	<b>GENERAL INFORMATION</b>	<b>3</b>
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
<b>2</b>	<b>MAXIMUM PERMISSIBLE EXPOSURE (MPE)</b>	<b>4</b>
2.1	LIMITS	4
2.2	ASSESSMENT METHODS	4
2.3	TEST RESULT	5
2.4	CONCLUSION	5
<b>3</b>	<b>APPENDIXES</b>	<b>6</b>
3.1	SAMPLE PHOTOGRAPH	6

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 3 of 15

## 1 General Information

### 1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icaso.com

### 1.2 Details of Application

Applicant Company Name	PETKIT Network Technology (Shanghai) Co., Ltd.
Applicant Company Address	Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai
Contact Person	TingHe
Telephone	13916991059
Email	ting.he@petkit.com
Manufacturer Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Manufacturer Company Address	Room 701 ,Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City, Guangdong Province, China.
Factory Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Factory Company Address	Room 701 ,Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City, Guangdong Province, China.

### 1.3 Details of EUT

Product Name	PETKIT EVER SWEET MAX 2 (CORDLESS) SMART PET DRINKING FOUNTAIN
Brand Name	PETKIT
Test Model Name	P4116
FCC ID	2A72N-P4116
Mode of Operation	Bluetooth LE Version 5.0
Frequency Range	2402MHz ~ 2480MHz
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	-5.45dBi
Hardware Version	V1.7
Software Version	1.111

Note:

1. The above information was declared by the manufacturer.
2. For more details, please refer to the User's manual of the EUT.

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 4 of 15

## 2 Maximum Permissible Exposure (MPE)

### 2.1 Limits

According to KDB 447498 D01 General RF Exposure Guidance v06, Per § 1.1310(d)(2) MPE limits in § 1.1310(e)(1)

- Table 1, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(I) Limits for Occupational/Controlled Exposure</b>				
0.3–3.0 .....	614 .....	1.63 .....	*(100) .....	≤6
3.0–30 .....	1842/f .....	4.89/f .....	*(900/f <sup>2</sup> ) .....	<6
30–300 .....	61.4 .....	0.163 .....	1.0 .....	<6
300–1,500 .....	.....	.....	f/300 .....	<6
1,500–100,000 .....	.....	.....	5 .....	<6
<b>(II) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614 .....	1.63 .....	*(100) .....	<30
1.34–30 .....	824/f .....	2.19/f .....	*(180/f <sup>2</sup> ) .....	<30
30–300 .....	27.5 .....	0.073 .....	0.2 .....	<30
300–1,500 .....	.....	.....	f/1500 .....	<30
1,500–100,000 .....	.....	.....	1.0 .....	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.

### 2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm<sup>2</sup>)

P = Input Power of the Antenna (mW)

G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 5 of 15

## 2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
BLE	2402~2480	-2.94	-5.45	0.145	0.00003	1.0

## 2.4 Conclusion

The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 6 of 15

## 3 Appendixes

### 3.1 Sample Photograph



All of the sample



Front of the sample

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 7 of 15



Rear of the sample



Left of the sample

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 8 of 15



Right of the sample



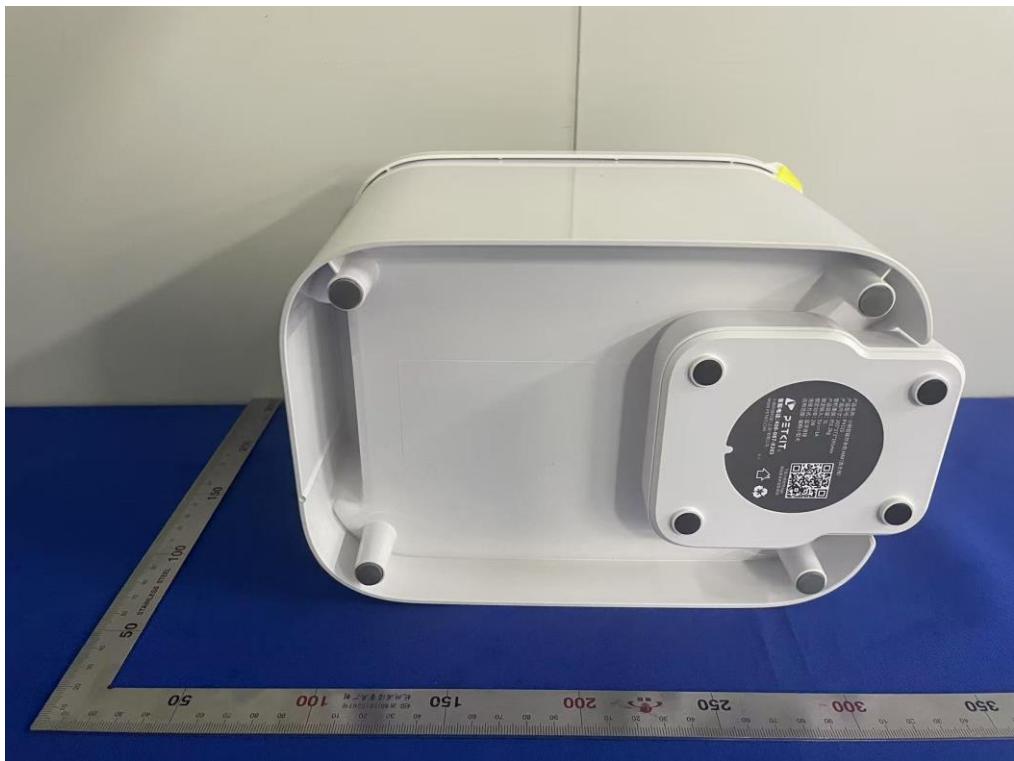
Top of the sample

# MPE TEST REPORT

Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 9 of 15



Bottom of the sample



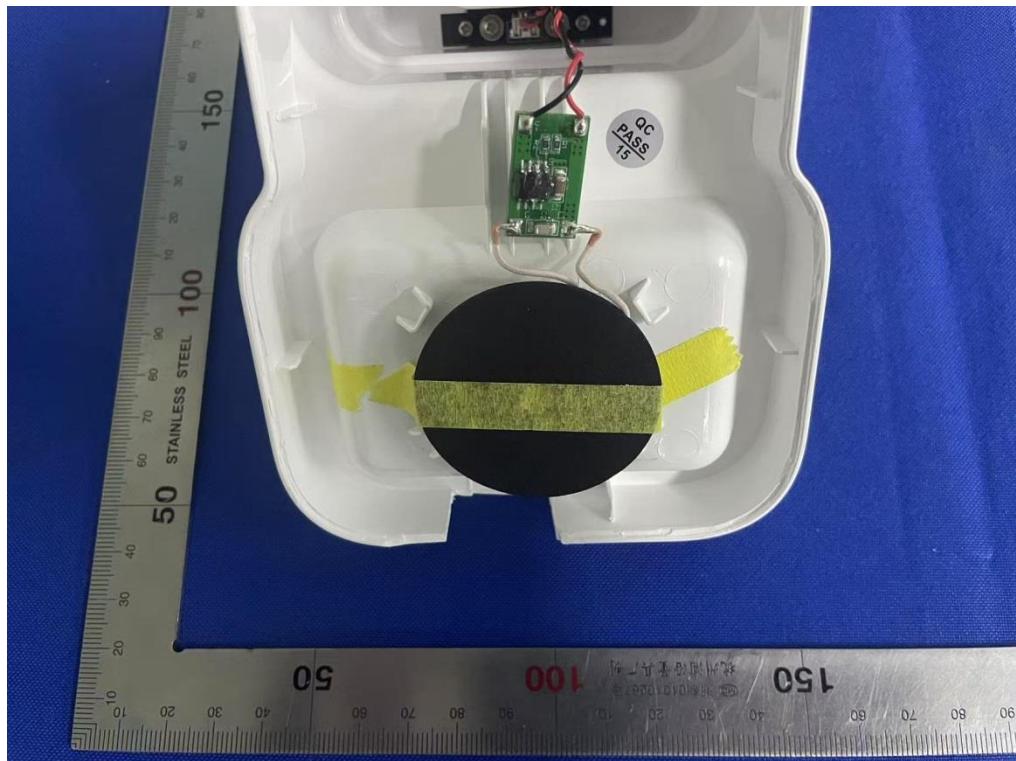
Open of the sample

# MPE TEST REPORT

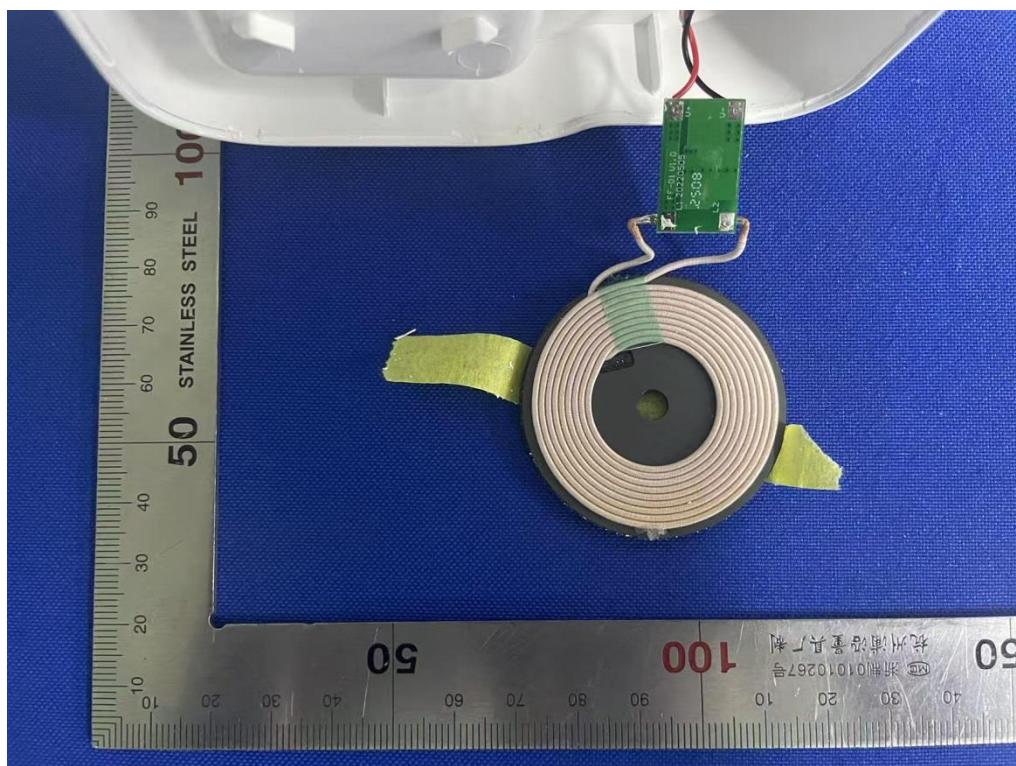
Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 10 of 15



Internal-1 of the sample



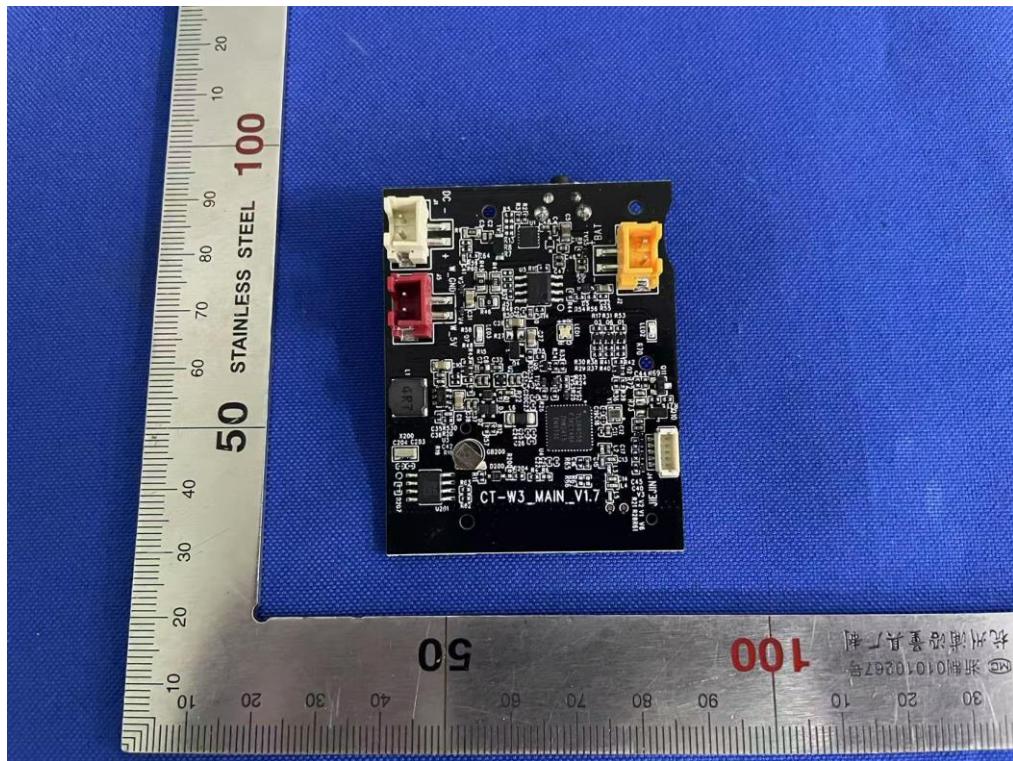
Internal-2 of the sample

# MPE TEST REPORT

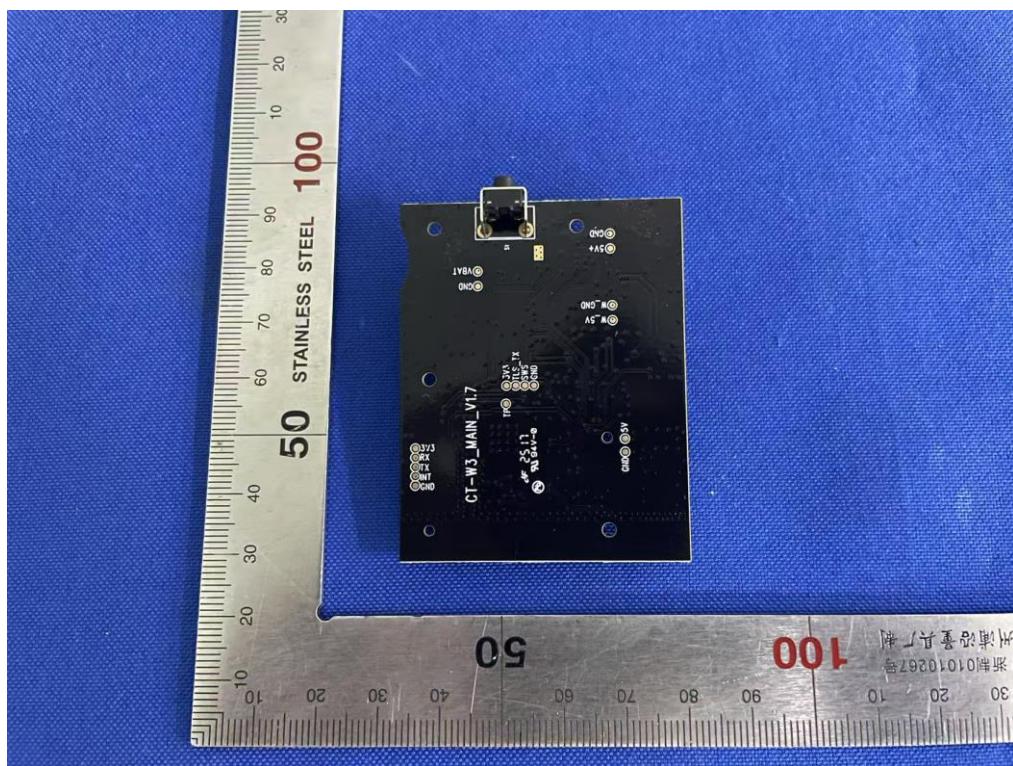
Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 11 of 15



Internal-3 of the sample



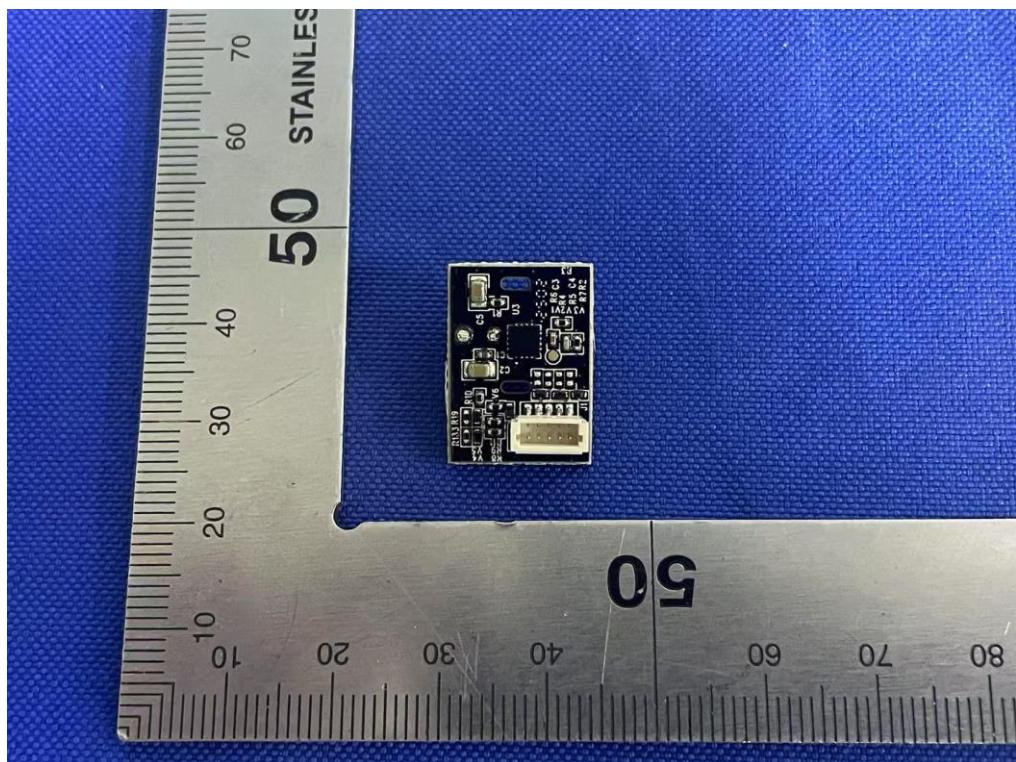
Internal-4 of the sample

# MPE TEST REPORT

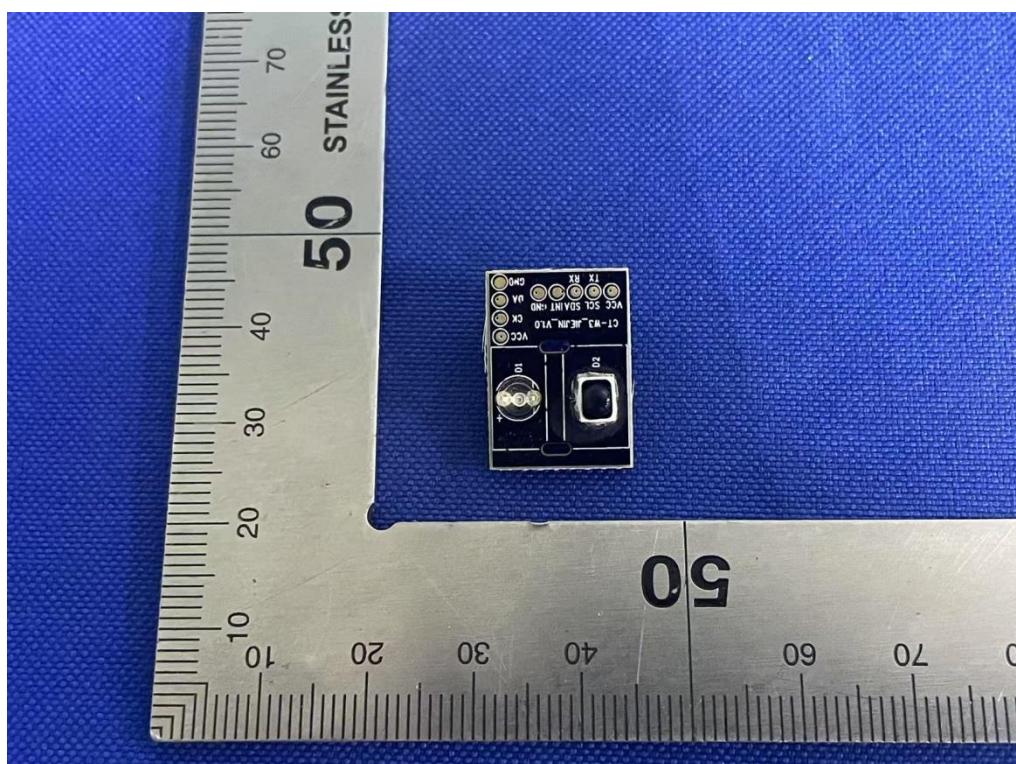
Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 12 of 15



Internal-5 of the sample



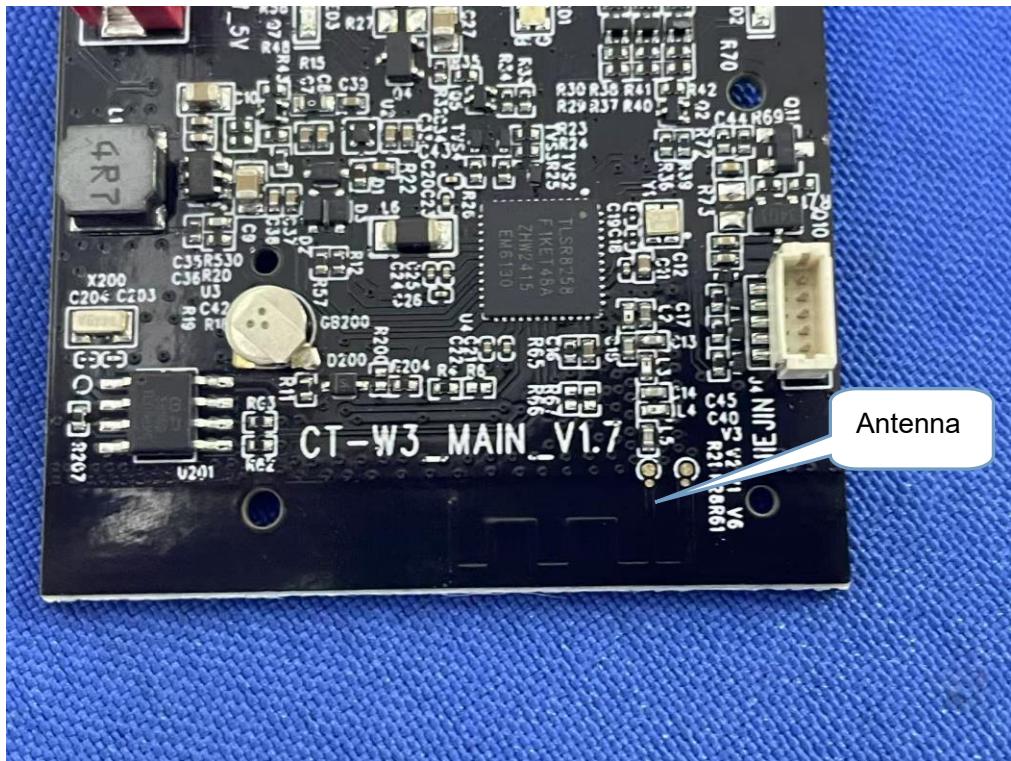
Internal-6 of the sample

# MPE TEST REPORT

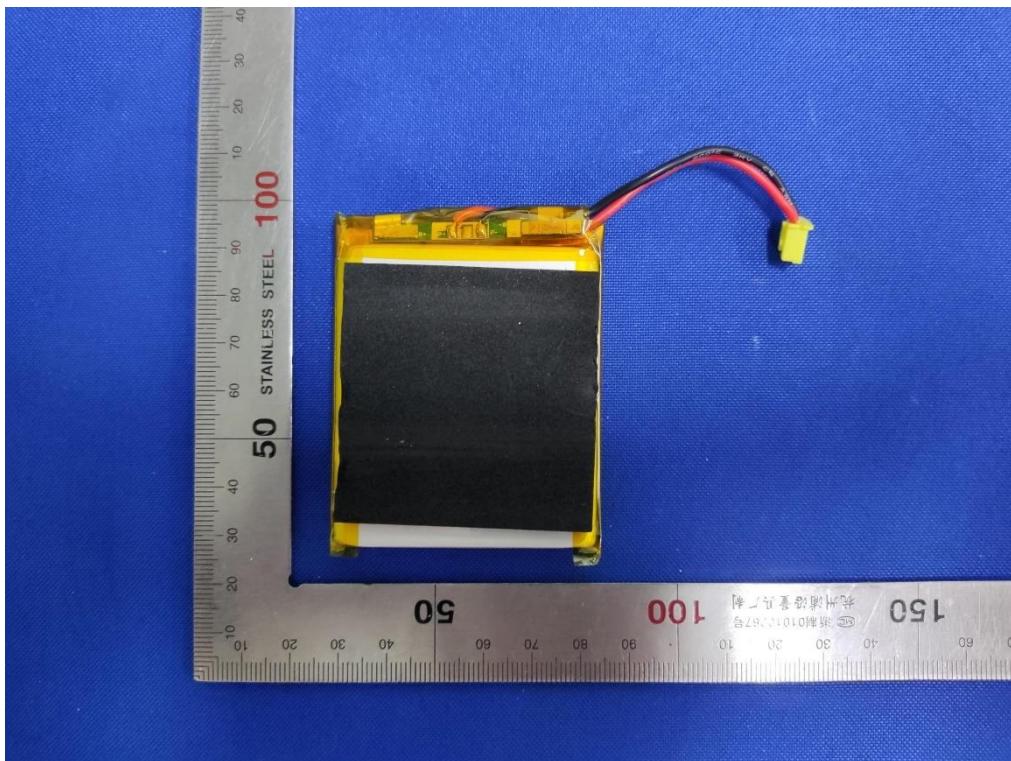
Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 13 of 15



Bluetooth Antenna position



Battery

# MPE TEST REPORT

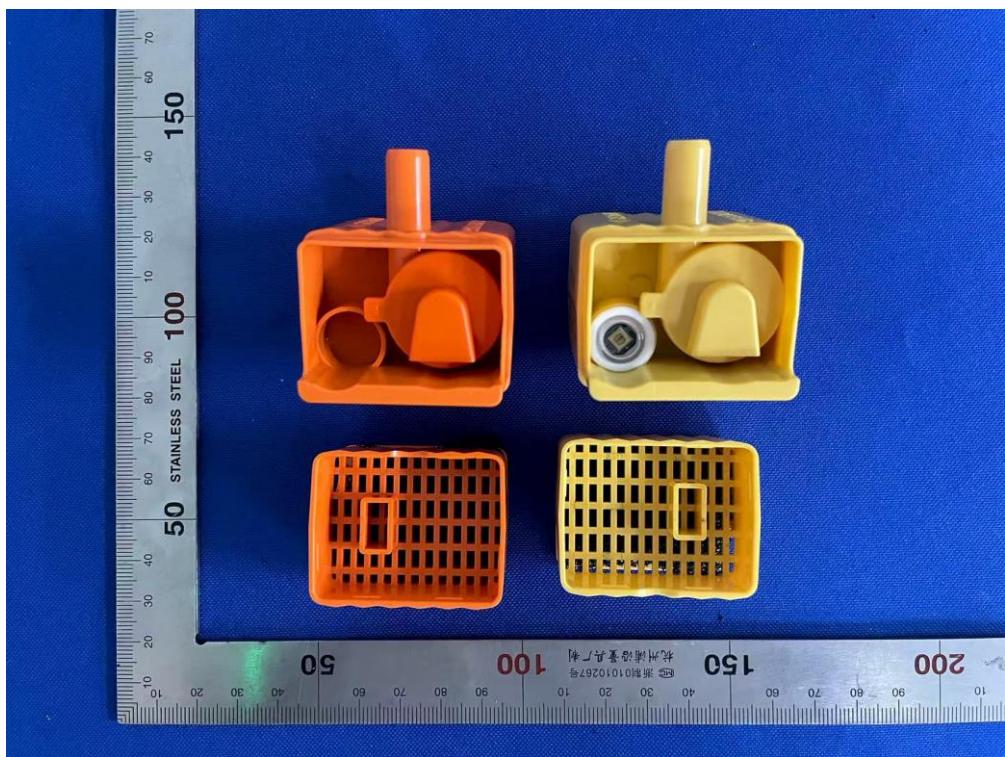
Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 14 of 15



Charge port



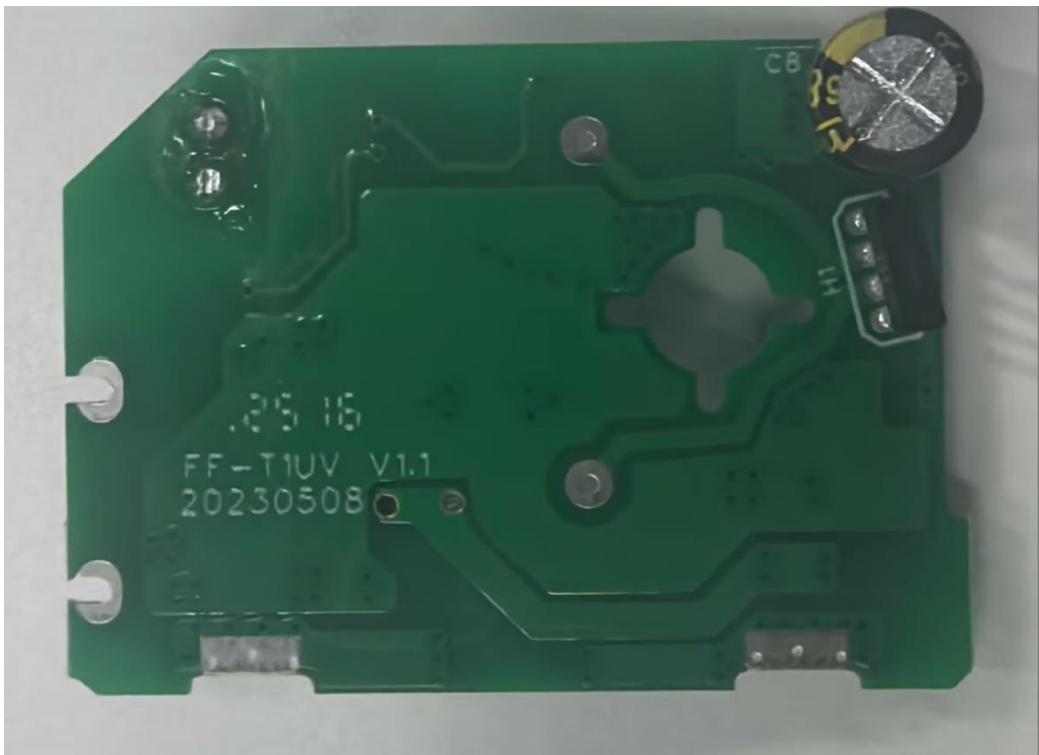
Wireless pump

# MPE TEST REPORT

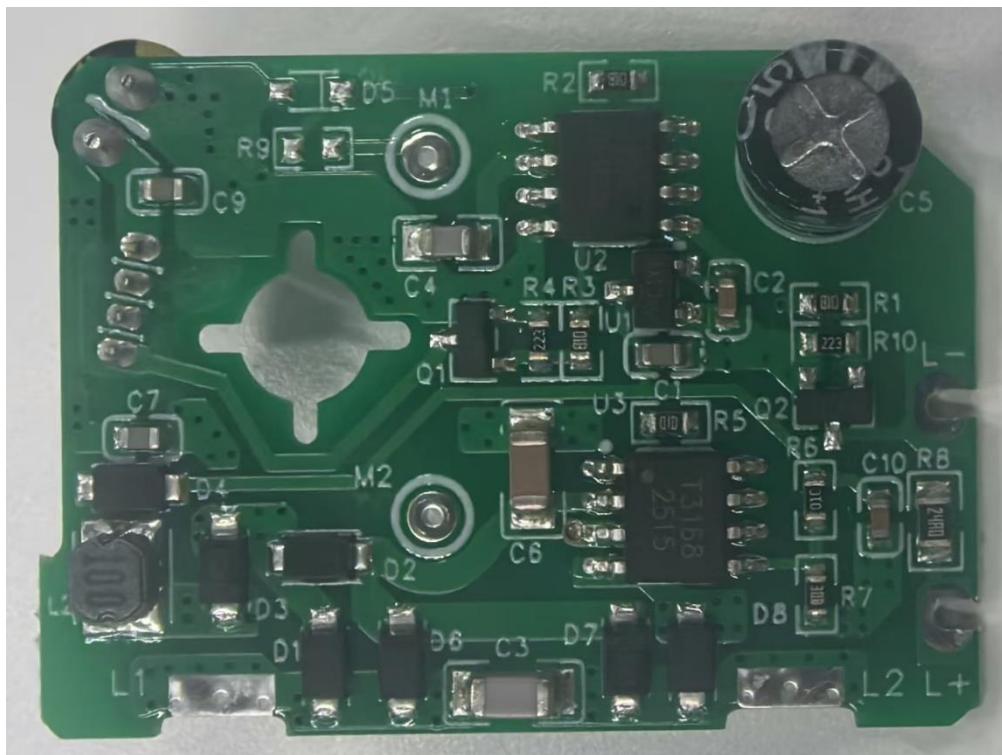
Report No.: SHE25060036-02CE

Date: 2025-07-04

Page 15 of 15



Wireless pump-PCB(Back)



Wireless pump-PCB(Front)

\*\*\*End of the report\*\*\*