

MPE TEST REPORT

Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 1 of 10

Applicant : PETKIT Network Technology (Shanghai) Co., Ltd.
Address of Applicant : Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai

Product Name : PETKIT EVERSWEET MAX (CORDLESS)
Brand Name : PETKIT
Model Name : P4115
Sample Acquisition Method : Sent by Client

Sample No. : E23120008-01#04

FCC ID : 2A72N-P4115

Standard : FCC Part 2.1091

Date of Receipt : 2023-12-05
Date of Test : 2023-12-08~ 2023-12-22
Date of Issue : 2023-12-27

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.

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(Erik Yang)

Reviewed by: Jennifer Zhou
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Approved by: Echo Mu
(Authorized signatory: Echo Mu)

MPE TEST REPORT

Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 2 of 10

Contents

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

MPE TEST REPORT

Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 3 of 10

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.icasiso.com

1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Applicant Company Name	PETKIT Network Technology (Shanghai) Co., Ltd.
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.
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.
Address	Room 701 ,Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City, Guangdong Province, China.

1.4 Details of EUT

Product Name	PETKIT EVERSWEET MAX (CORDLESS)
Brand Name	PETKIT
Test Model Name	P4115
FCC ID	2A72N-P4115
Mode of Operation	Bluetooth BLE Version 5.0
Frequency Range	2402MHz ~ 2480MHz
Modulation Type	GFSK
Antenna Type	PCB Antenna
Antenna Gain	-5.45dBi
Hardware Version	V1.4

MPE TEST REPORT

Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 4 of 10

Software Version	1.63
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2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to FCC Part 1.1307, 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—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	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/cm²)

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.: SHE23120008-02CE

Date: 2023-12-27

Page 5 of 10

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 ²)	Limit (mW/cm ²)
BLE	2402~2480	-3.35	-5.45	0.132	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

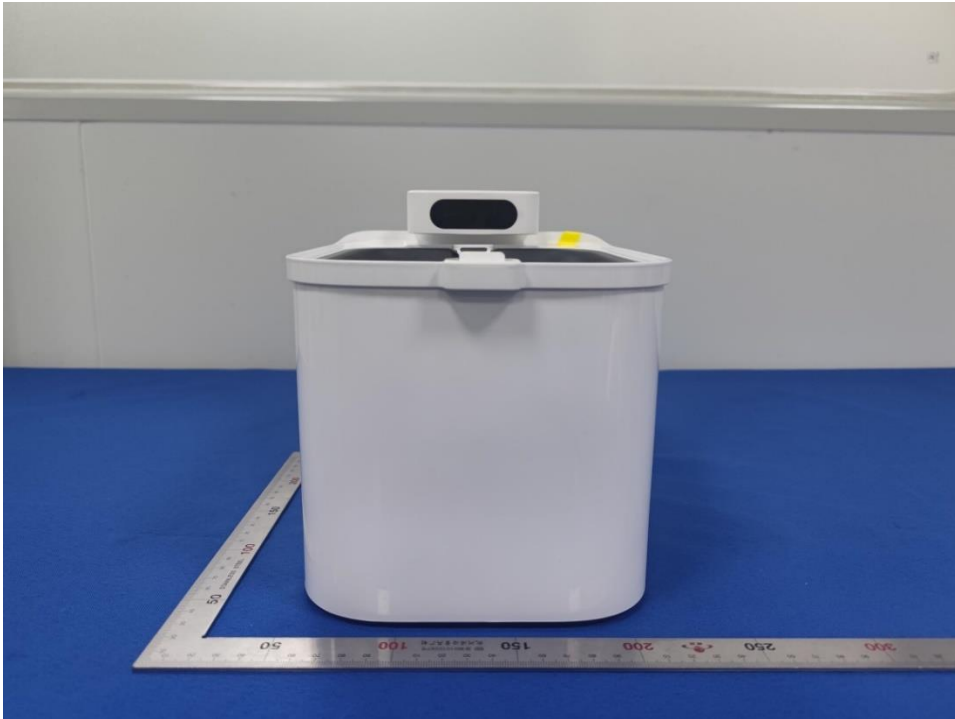
Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 6 of 10

3 Appendixes

3.1 Sample Photograph



Front of the sample



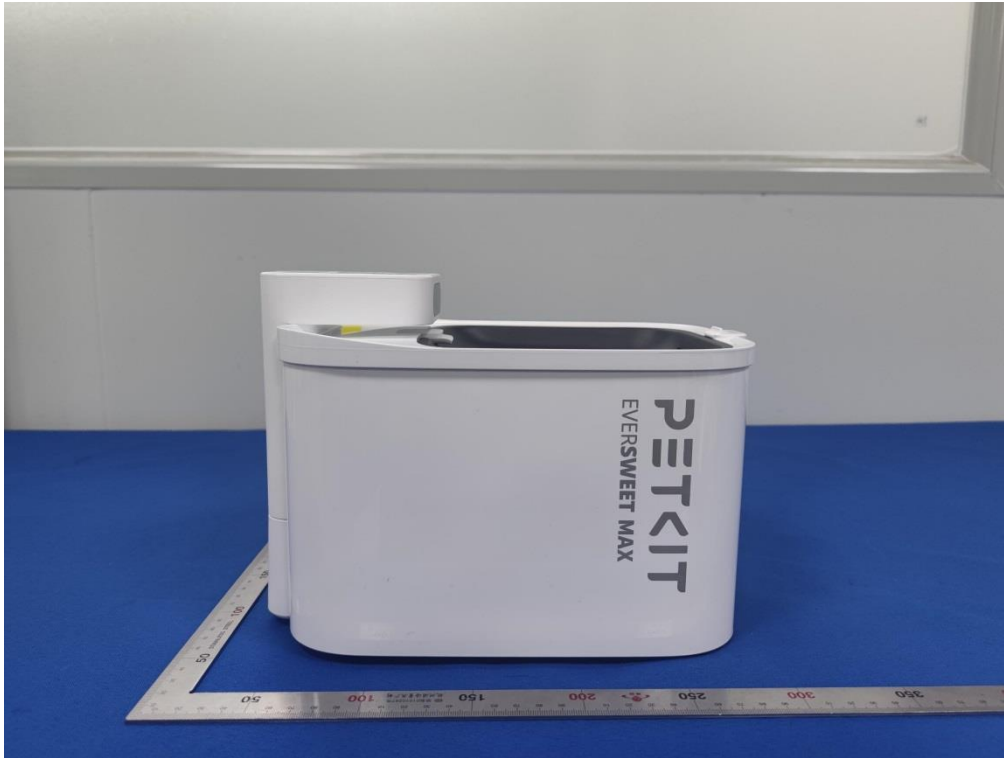
Rear of the sample

MPE TEST REPORT

Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 7 of 10



Left of the sample



Right of the sample

MPE TEST REPORT

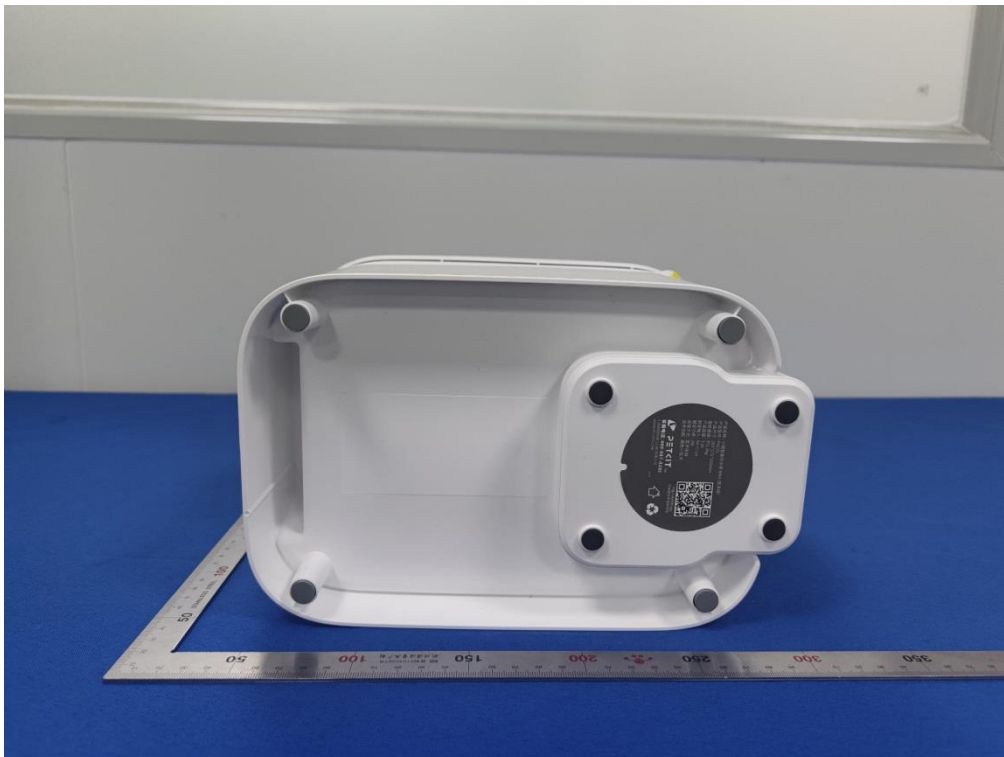
Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 8 of 10



Top of the sample



Bottom of the sample

MPE TEST REPORT

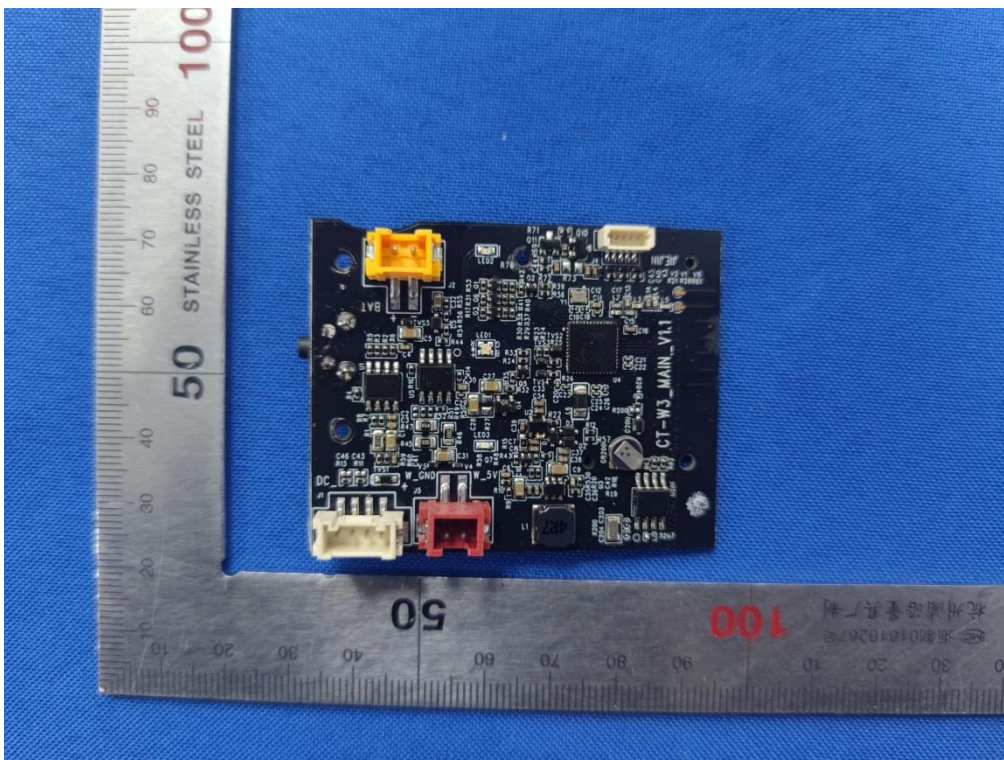
Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 9 of 10



Open of the sample



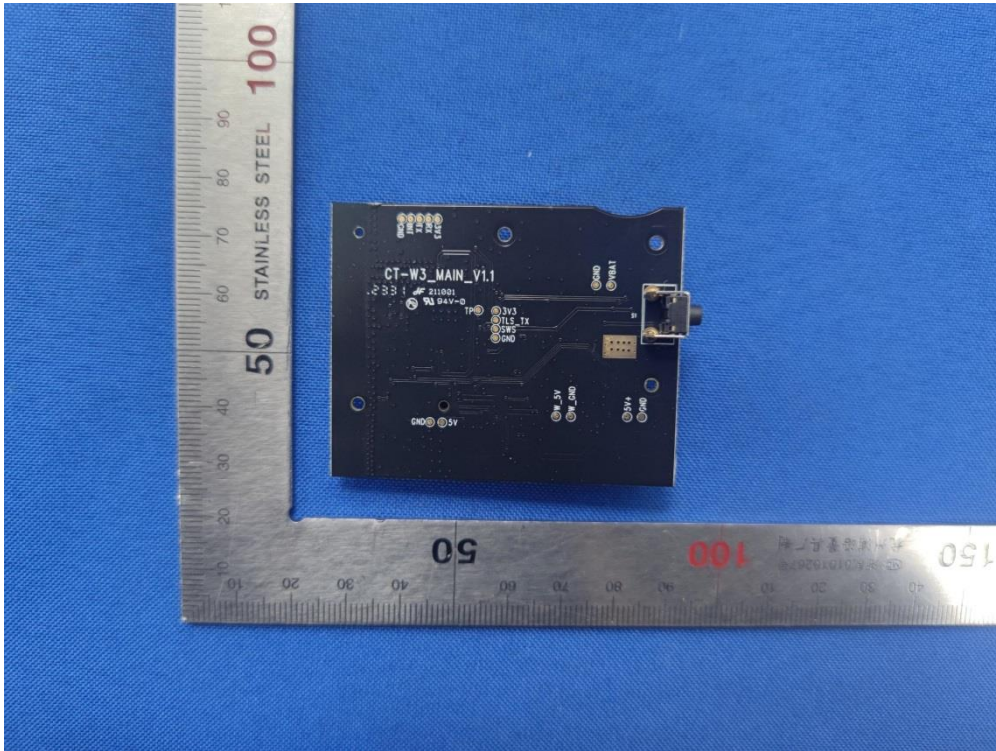
Internal-1 of the sample

MPE TEST REPORT

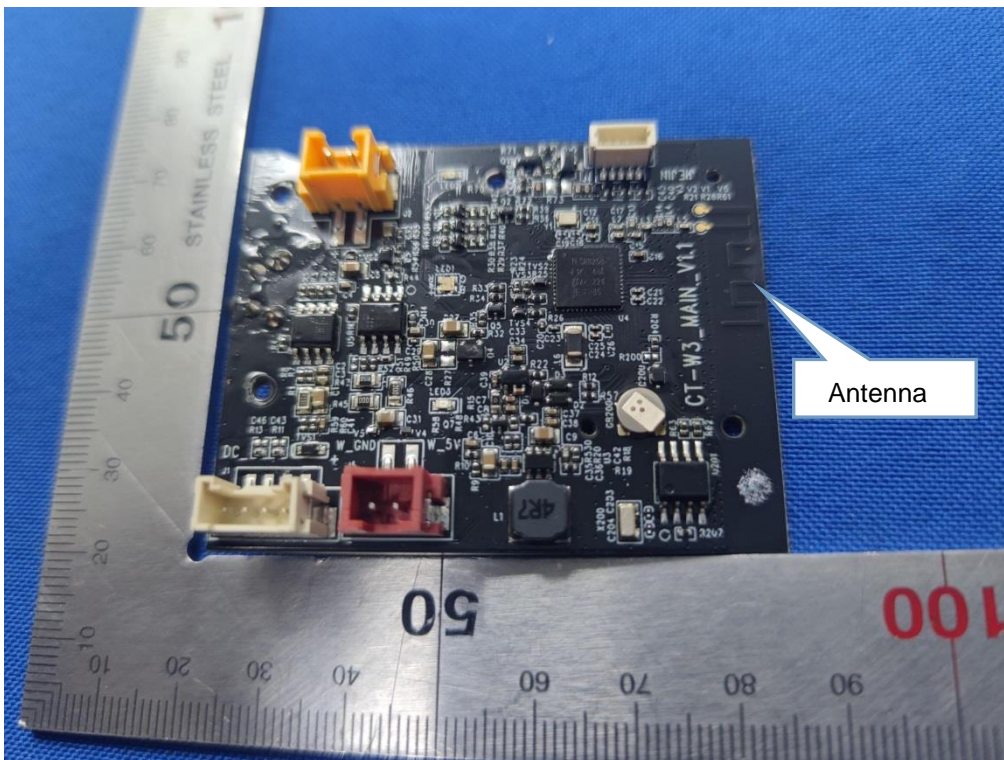
Report No.: SHE23120008-02CE

Date: 2023-12-27

Page 10 of 10



Internal-2 of the sample



Bluetooth Antenna position

End of the report