

MPE TEST REPORT

Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 1 of 21

Applicant

Address of Applicant

Product Name

Brand Name

Model Name

Sample Acquisition Method

Sample No.

FCC ID

Standard

:

PETKIT Network Technology (Shanghai) Co., Ltd.

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

PETKIT PUROBOT ULTRA WITH CAMERA
SELF-CLEANING CAT LITTER BOX

PETKIT

P9903

Sent by Client

E24060074-01#01
E24060074-01#08

2A72NP9903

FCC Part 2.1091

Date of Receipt

Date of Test

Date of Issue

:

2024-07-04

2024-08-14~ 2024-08-30

2024-08-30

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:

Reviewed by:

Approved by:


(Erik Yang)


(Jennifer Zhou)


(Authorized signatory: Echo Mu)

MPE TEST REPORT

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.: SHE24060074-02FE

Date: 2024-08-30

Page 3 of 21

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 PUROBOT ULTRA WITH CAMERA SELF-CLEANING CAT LITTER BOX
Brand Name	PETKIT
Test Model Name	P9903
FCC ID	2A72NP9903
Mode of Operation	WLAN 802.11b/g/n(HT20)
Frequency Range	2400~2483.5
Modulation Type	DSSS, OFDM
Antenna Type	Internal Antenna

MPE TEST REPORT

Antenna Gain	3.70dBi
Hardware version	V1.0
Software version	2.49

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 the 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

MPE TEST REPORT

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

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)
WLAN 2.4GHz	2400~2483.5	15.08	3.70	75.51	0.15021	1.0

- Note(s):**
- 1. For 300 – 1,500MHz: Power Density limit is f/1500 mW/cm2
 - 2. For 1,500 – 100,000MHz: Power Density limit is 1.0 mW/cm²

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.: SHE24060074-02FE

Date: 2024-08-30

Page 6 of 21

3 Appendixes

3.1 Sample Photograph



All of the sample



Front of the sample

MPE TEST REPORT

Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 7 of 21



Rear of the sample



Left of the sample

MPE TEST REPORT

Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 8 of 21



Right of the sample



Top of the sample

MPE TEST REPORT

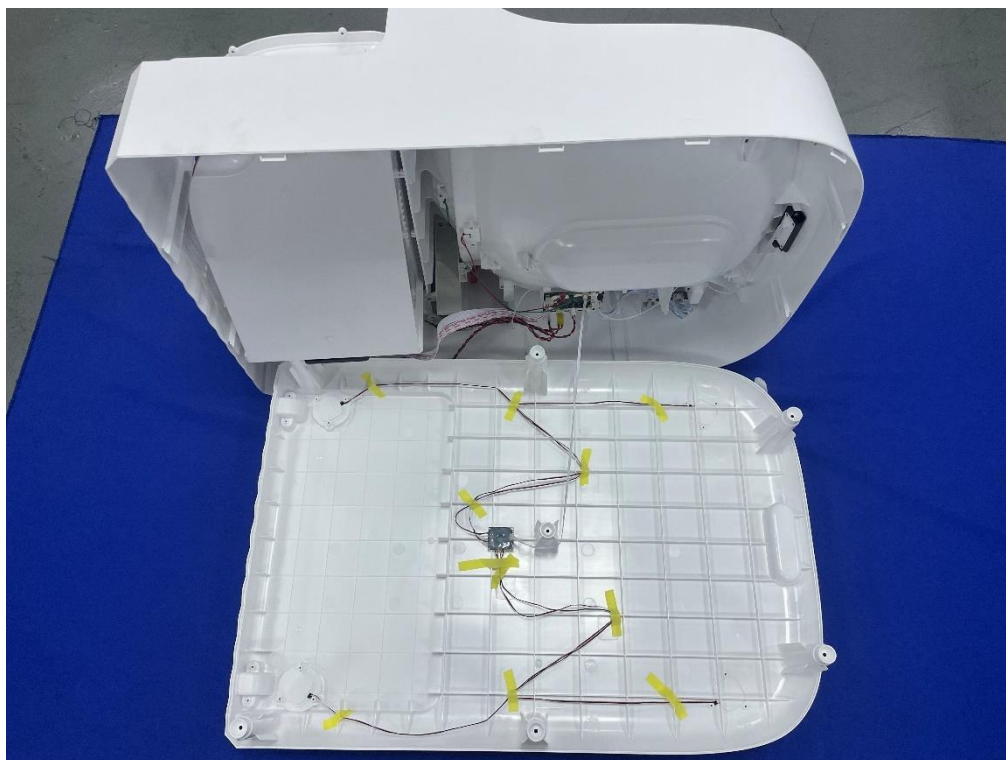
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 9 of 21



Bottom of the sample



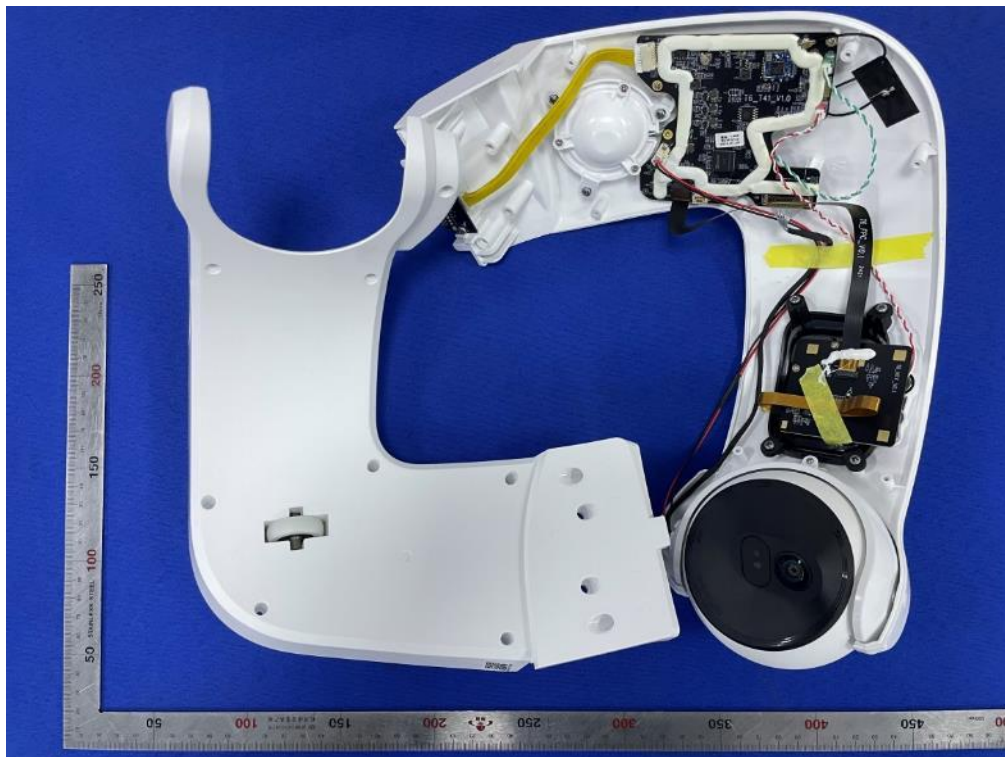
Open-1 of the sample

MPE TEST REPORT

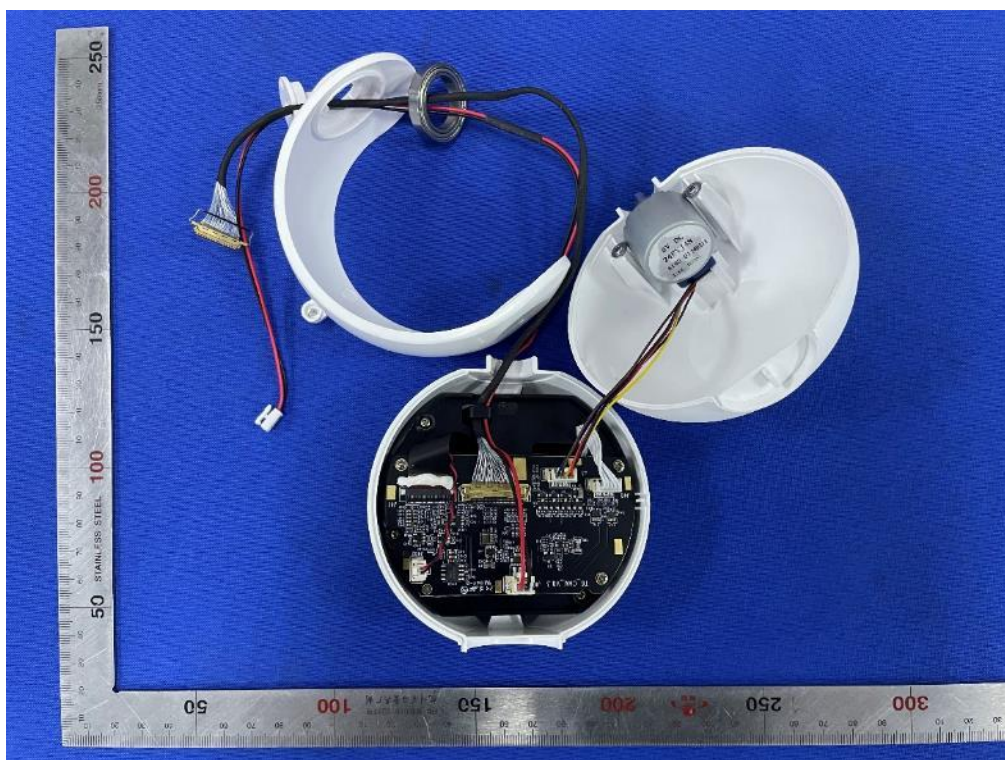
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 10 of 21

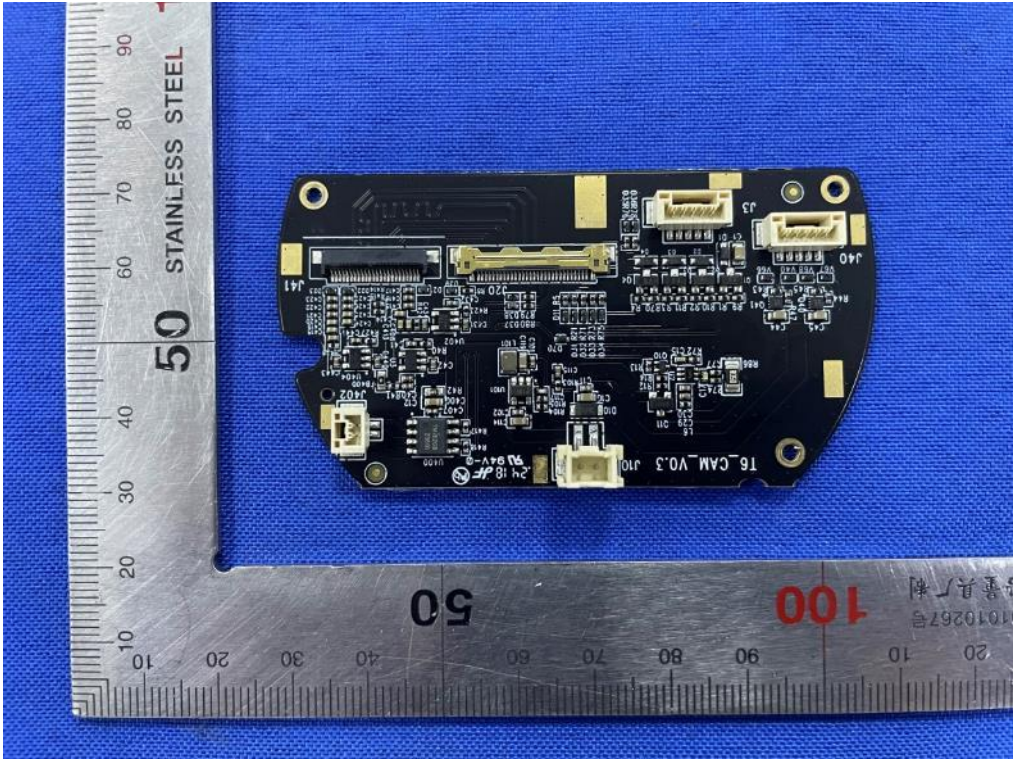


Open-2 of the sample

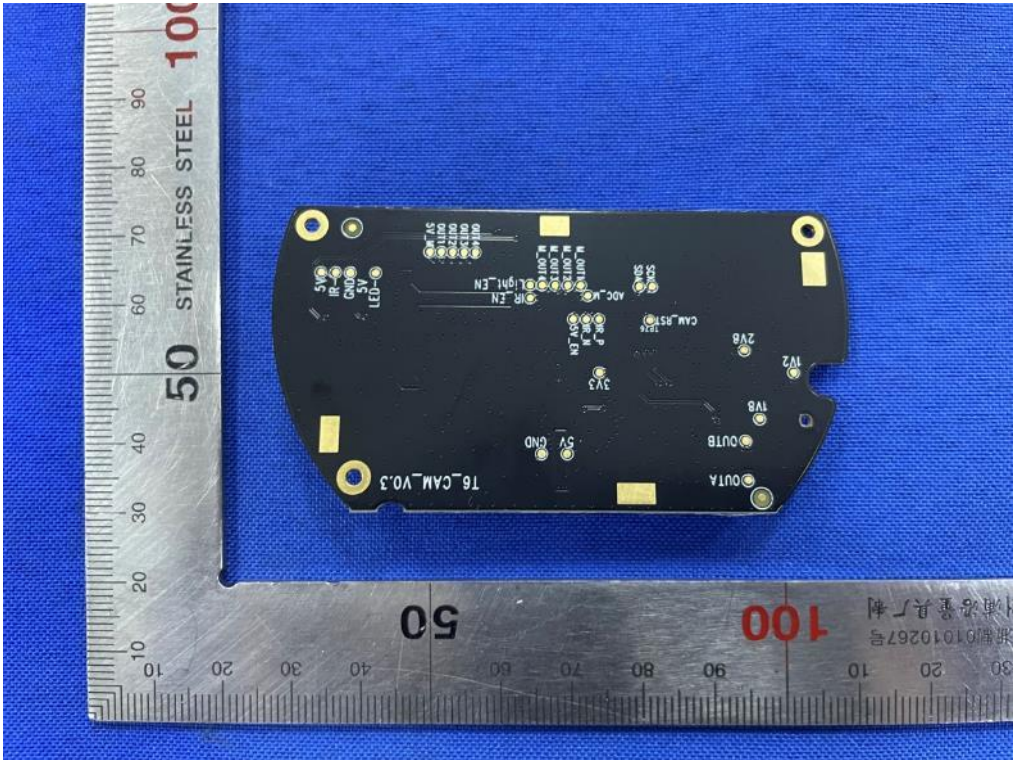


Open-3 of the sample

MPE TEST REPORT



Internal-1 of the sample



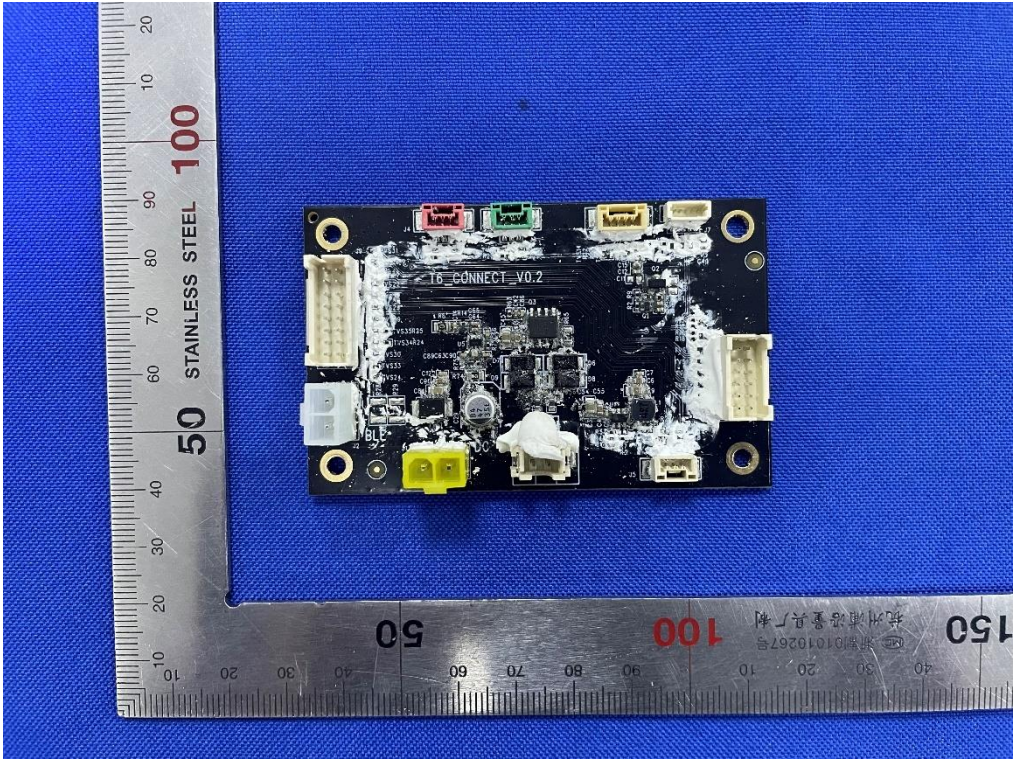
Internal-2 of the sample

MPE TEST REPORT

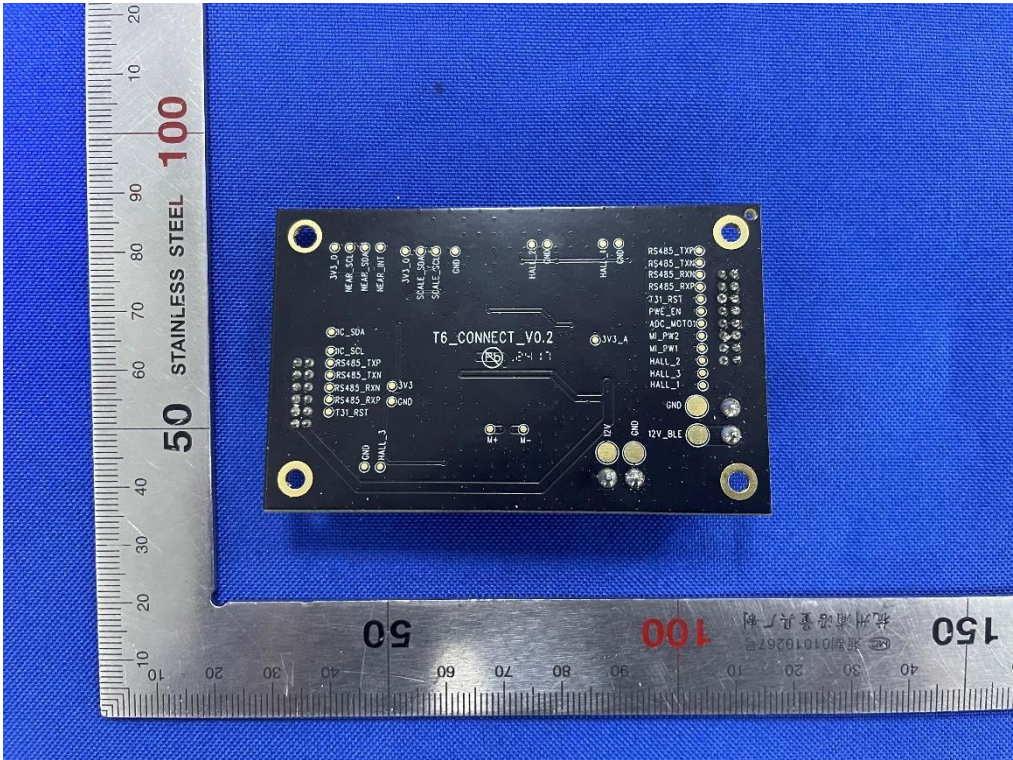
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 12 of 21



Internal-3 of the sample



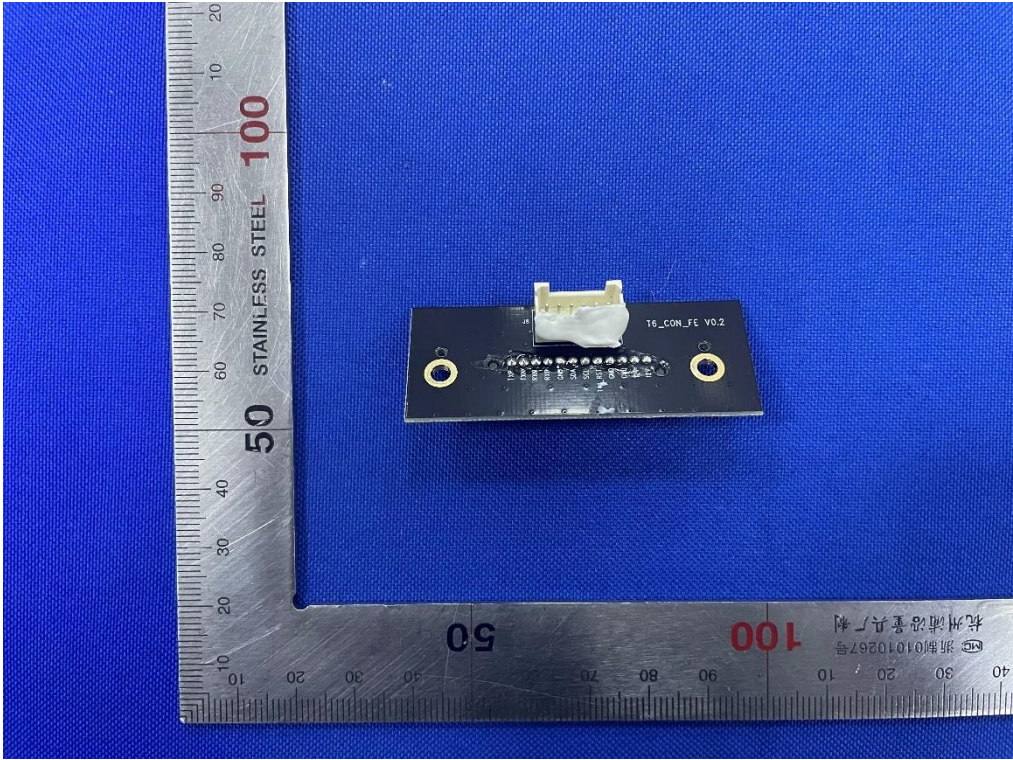
Internal-4 of the sample

MPE TEST REPORT

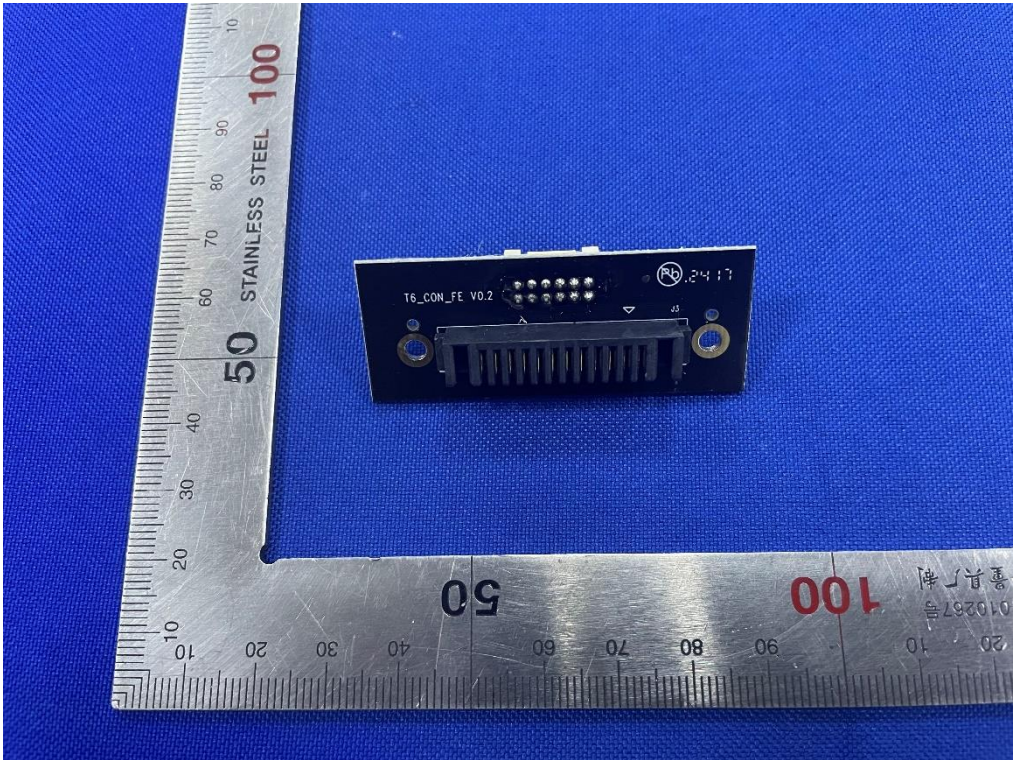
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 13 of 21



Internal-5 of the sample



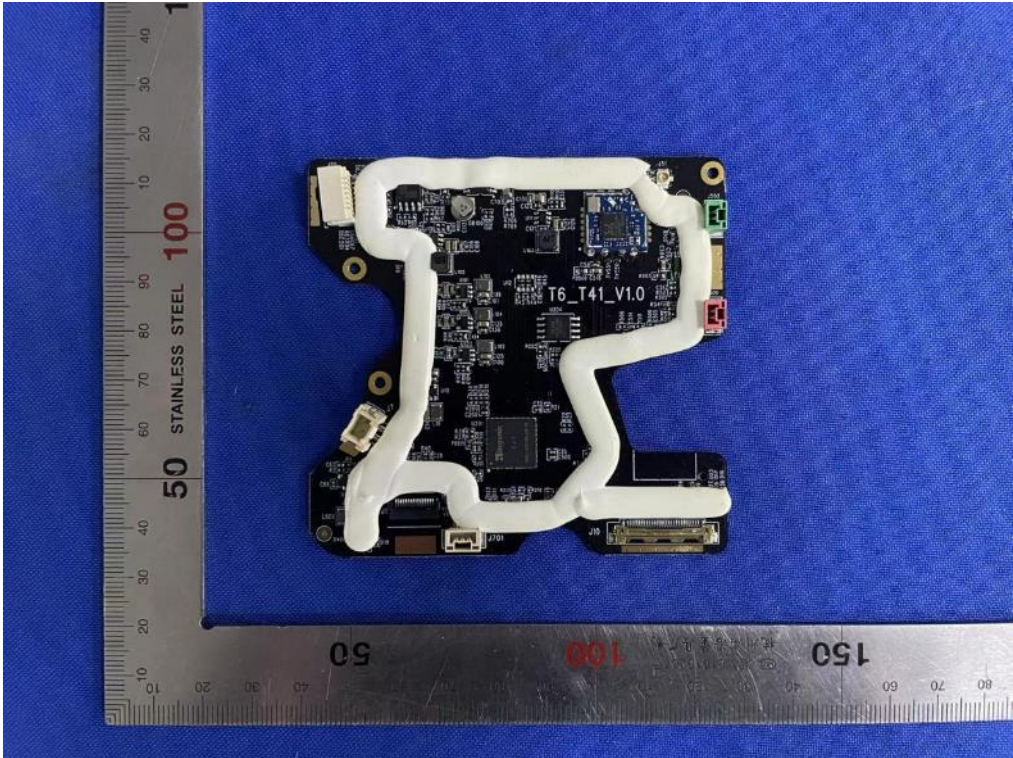
Internal-6 of the sample

MPE TEST REPORT

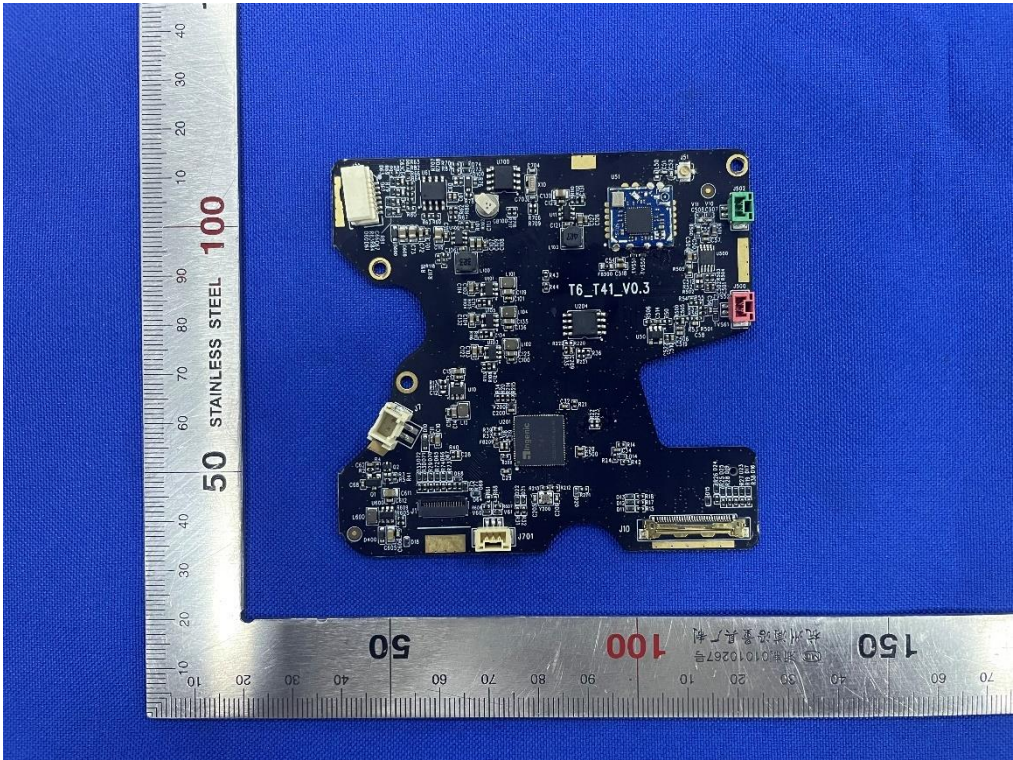
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 14 of 21

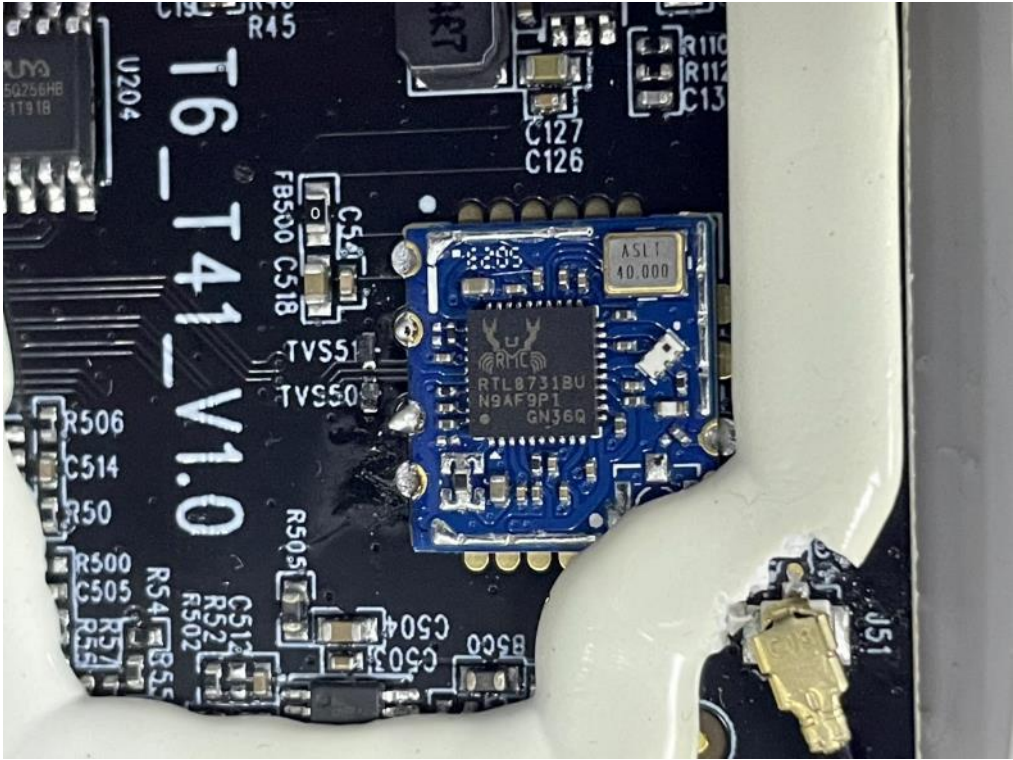


Internal-7 of the sample

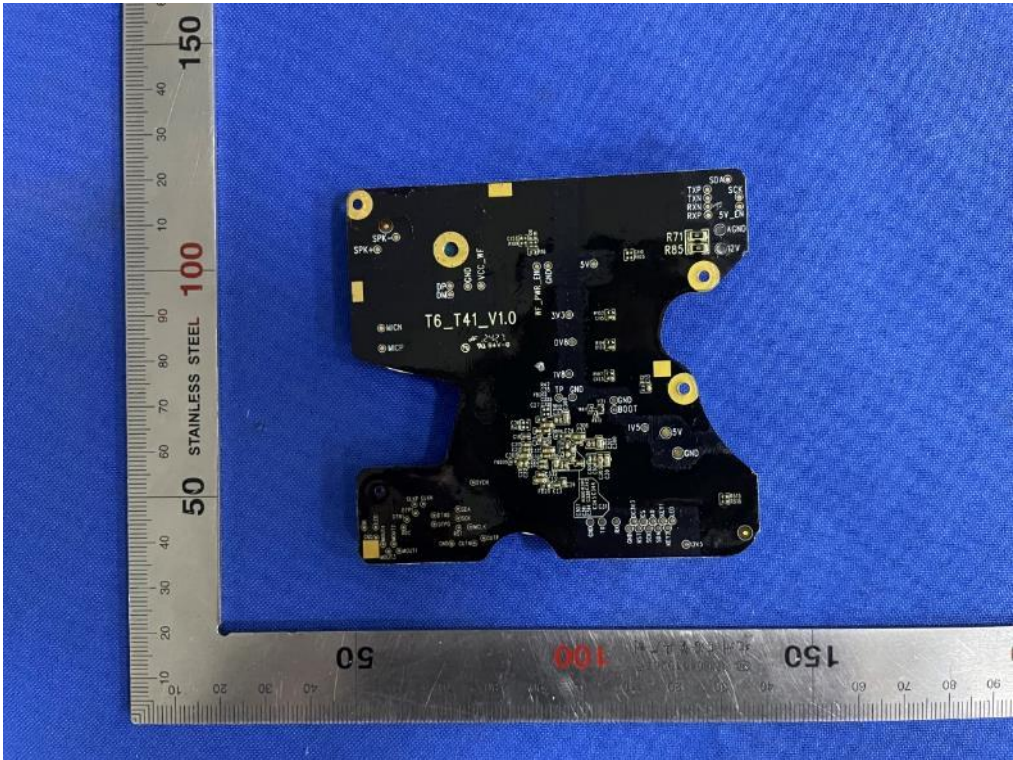


Internal-8 of the sample

MPE TEST REPORT



Internal-9 of the sample



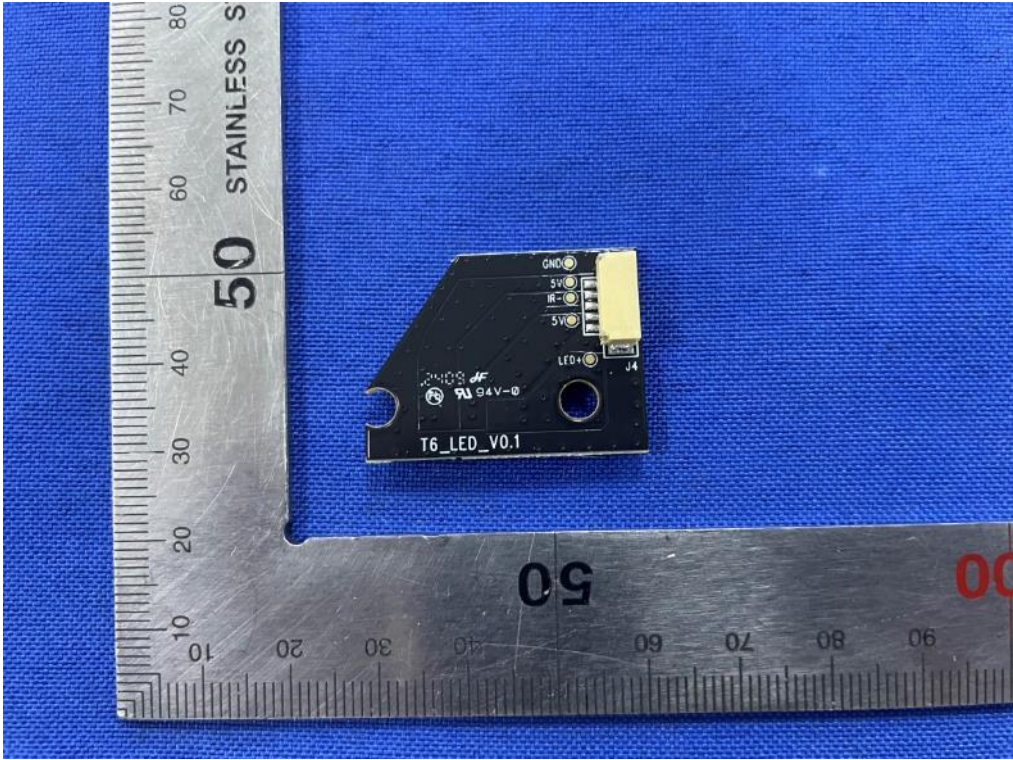
Internal-10 of the sample

MPE TEST REPORT

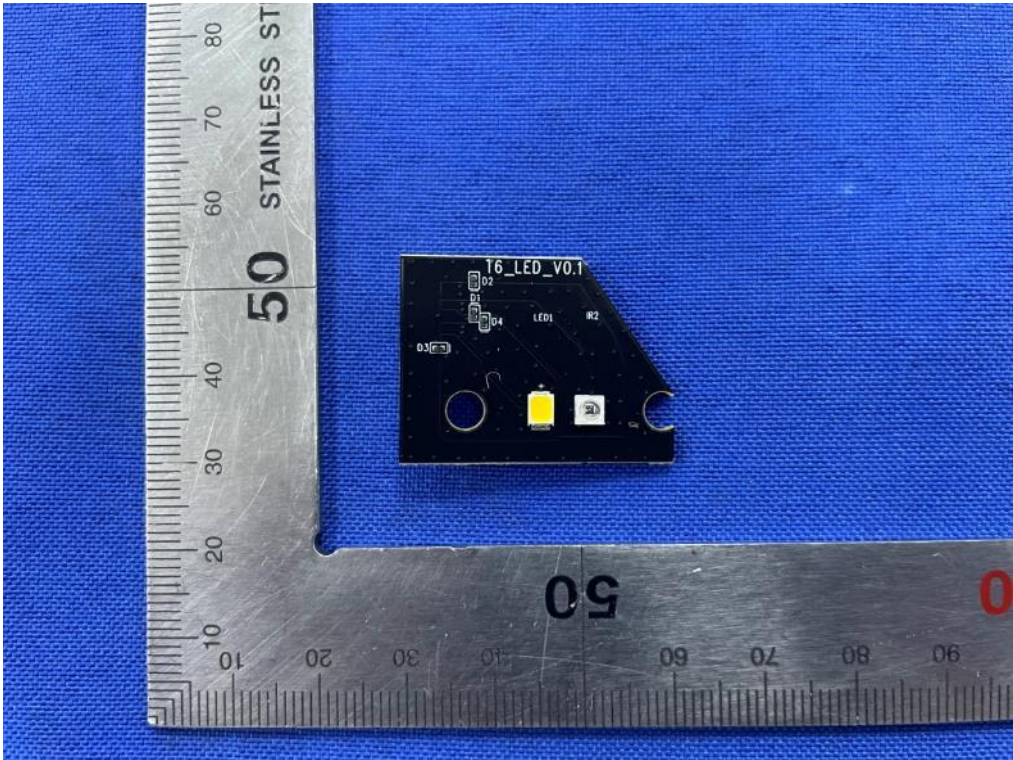
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 16 of 21



Internal-11 of the sample



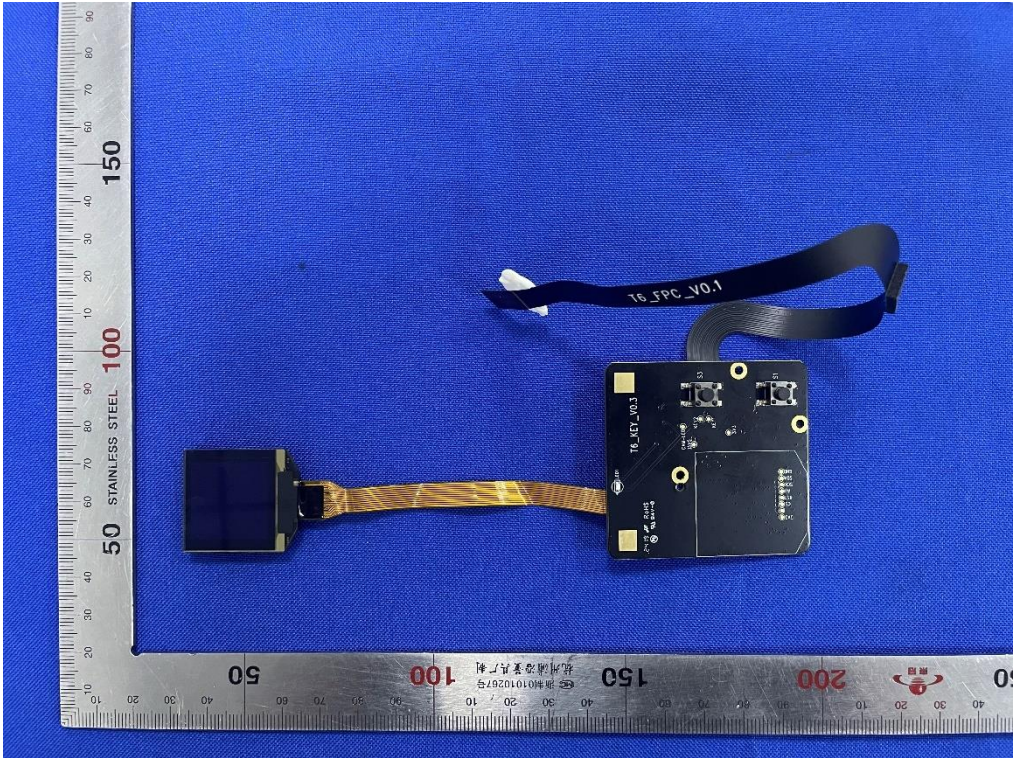
Internal-12 of the sample

MPE TEST REPORT

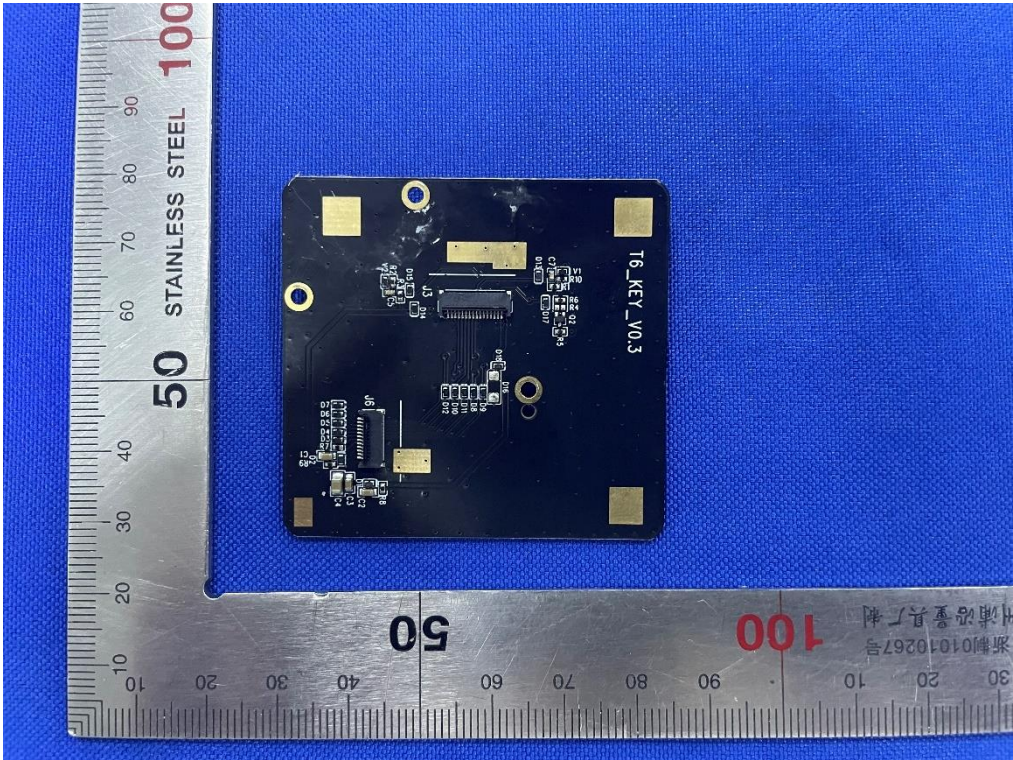
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 17 of 21



Internal-13 of the sample



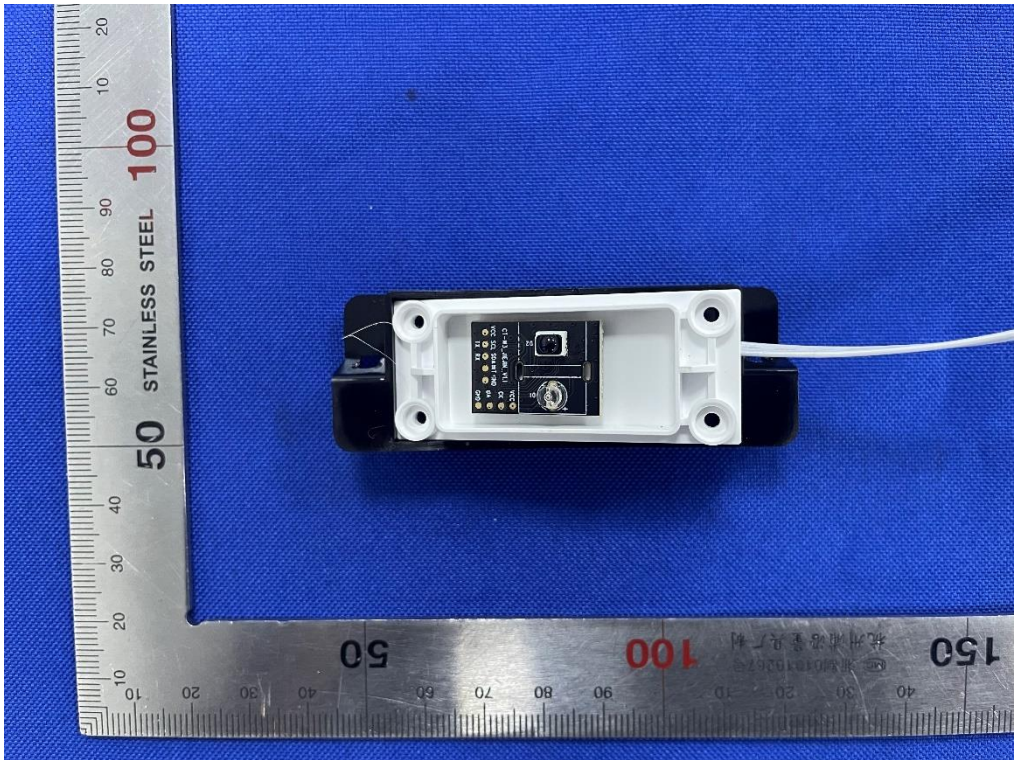
Internal-14 of the sample

MPE TEST REPORT

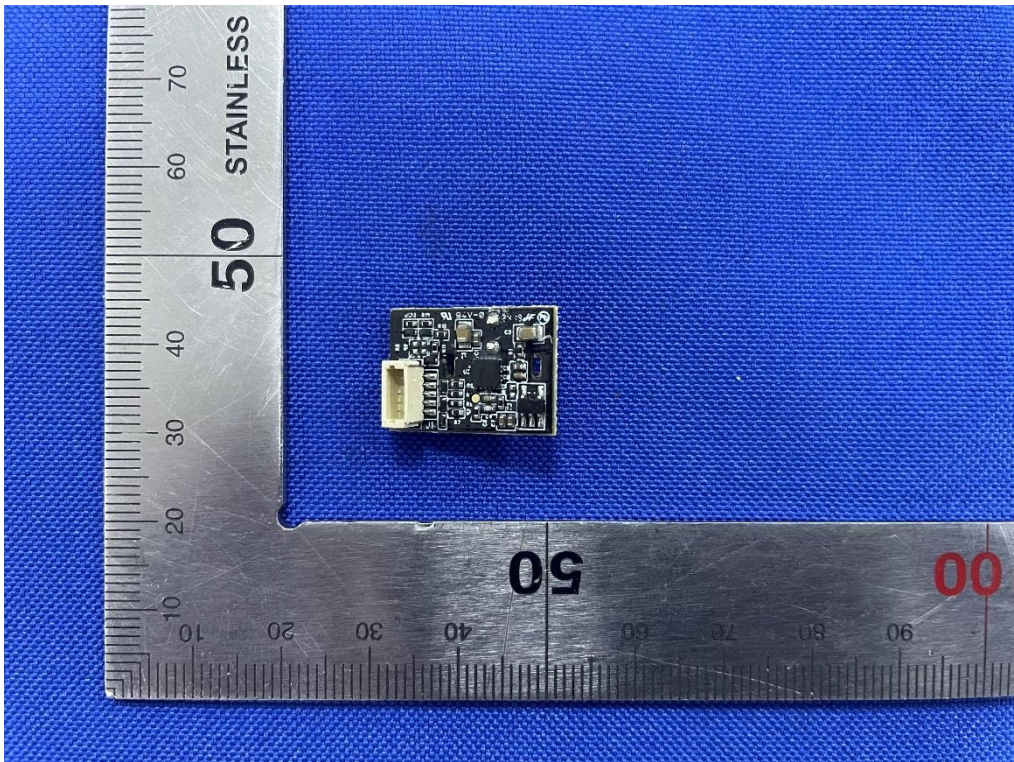
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 18 of 21



Internal-15 of the sample



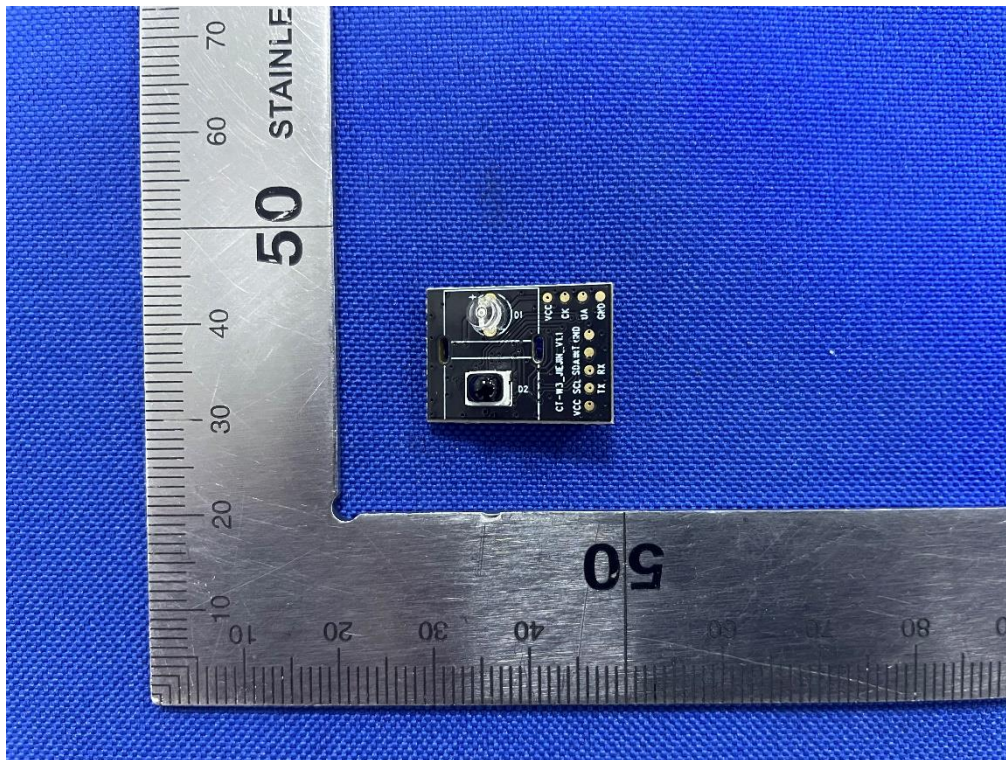
Internal-16 of the sample

MPE TEST REPORT

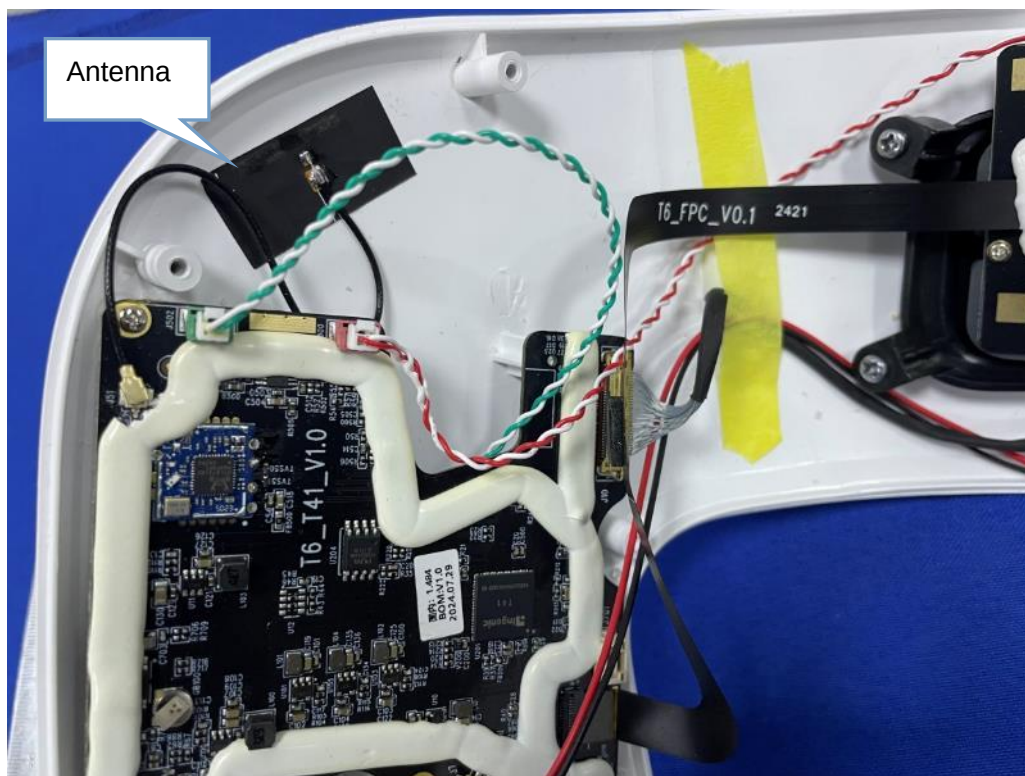
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 19 of 21



Internal-17 of the sample



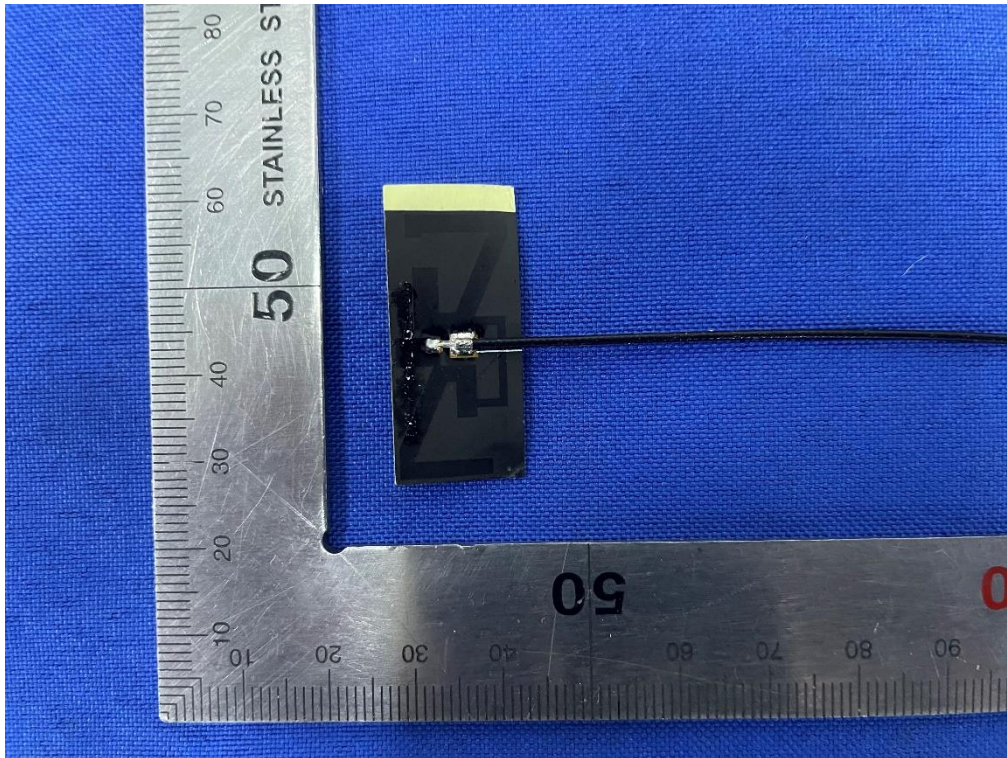
Antenna position

MPE TEST REPORT

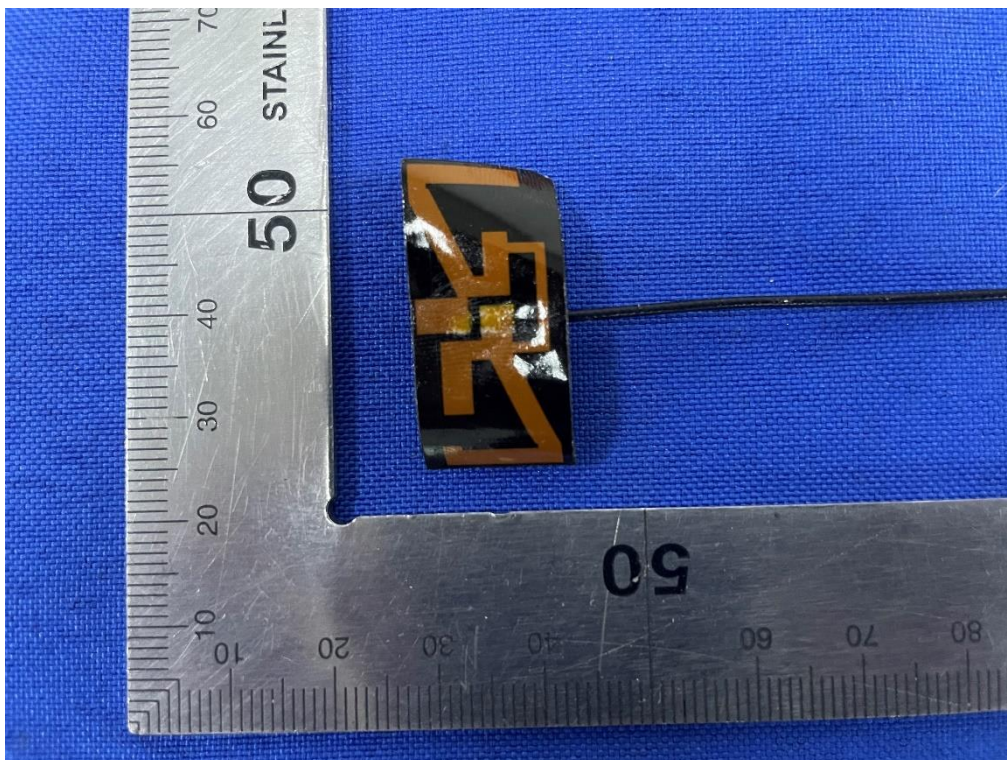
Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 20 of 21



Antenna Photo-1



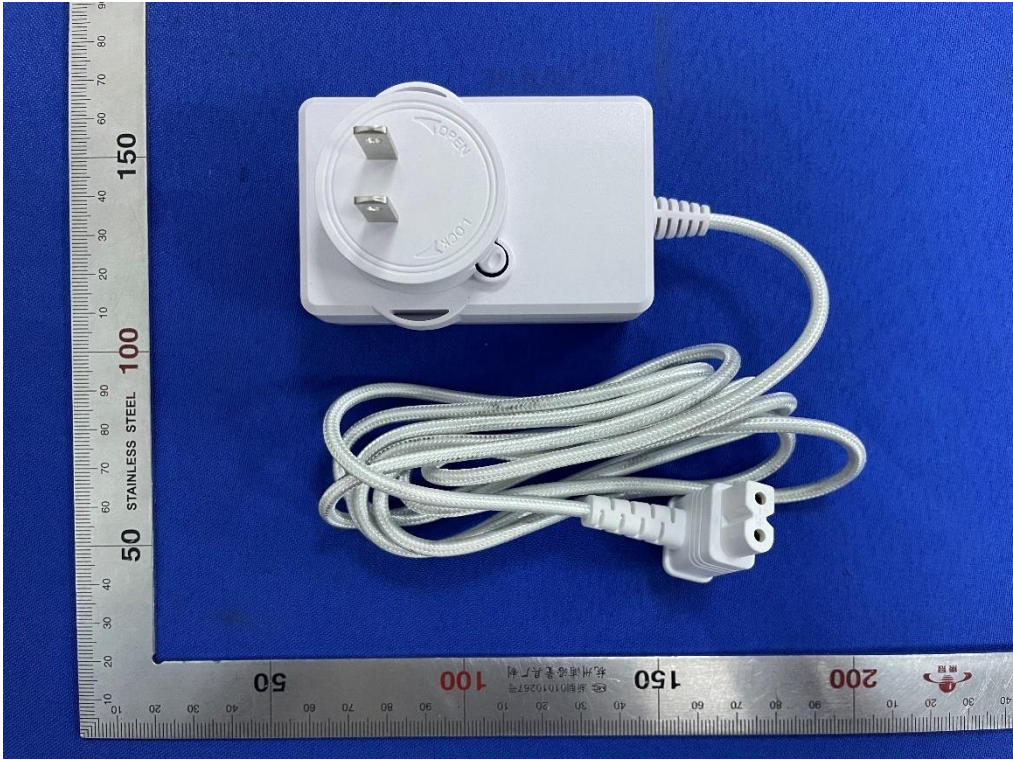
Antenna Photo-2

MPE TEST REPORT

Report No.: SHE24060074-02FE

Date: 2024-08-30

Page 21 of 21



Adapter-1



Adapter-2

End of the report