MPE TEST REPORT

Applicant	:	PETKIT Network Technology (Shanghai) Co., Ltd.
Address of Applicant	:	Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai
Product Name	:	PETKIT YUMSHARE SOLO WITH CAMERA SMART PET FEEDER
Brand Name	:	PETKIT
Model Name	:	P571
Sample Acquisition Method	:	Sent by Client
Sample No.	:	E23060039-01#01
FCC ID	:	2A72N-P571
Standard	:	FCC Part 2.1091

Date of Receipt	:	2023-06-15
Date of Test	:	2023-06-20~ 2023-07-29
Date of Issue	:	2023-07-31

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 (Erik Yang) Reviewed by: Jennifer Zhou (Jennifer Zhou) Approved by: Guoyou Chi (Authorized signatory: Guoyou Chi)

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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 YUMSHARE SOLO WITH CAMERA SMART PET FEEDER	
Brand Name	PETKIT	
Test Model Name	P571	
FCC ID	2A72N-P571	
Mode of Operation	WLAN 802.11b/g/n(HT20) for 2.4GHz Bluetooth BLE Version 5.0	
Frequency Range	Band	Frequency (MHz)
	802.11b/g/n(HT20)	2400~2483.5
	Bluetooth	2400~2483.5
Modulation Type	DSSS/OFDM for WLAN 2.4GHz	

	GFSK for Bluetooth
Antenna Type	Internal Antenna
Antenna Gain	Bluetooth: 3.98dBi WLAN 2.4G:-5.45dBi
Hardware Version	V1.0
Software Version	1.22

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:

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

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)

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	16.97	3.98	124.45	0.02476	1.0
BLE	2400~2483.5	-1.76	-5.45	0.19	0.00004	1.0

2.4 Results for transmit simultaneously

Configurations	Maximum MPE Value			Limit
	WLAN 2.4GHz	BLE	Transmit Simultaneously	
WLAN 2.4GHz + BLE	0.02476	0.00004	0.0248	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/cm^2
3. MPE Ratios are Calculated as [(MPE1/Limit)+ (MPE2/Limit) + ……]≤1

2.5 Conclusion

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

3 Appendixes

3.1 Sample Photograph

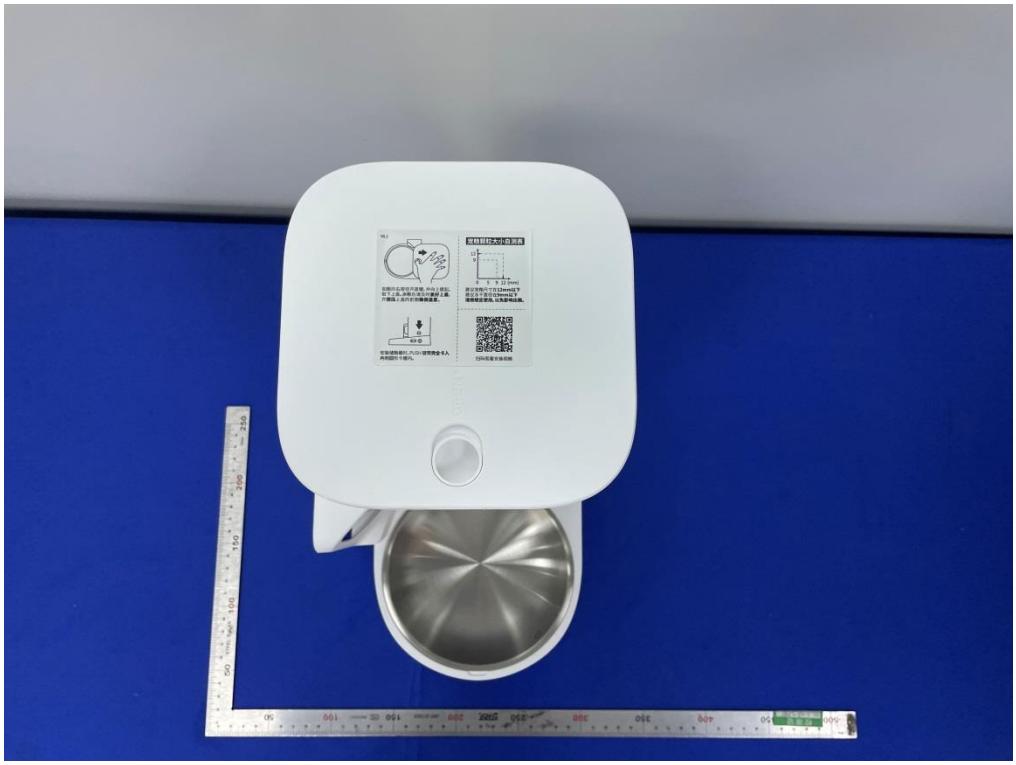
All of the sample

Front of the sample

Rear of the sample

Left of the sample

Right of the sample



Top of the sample

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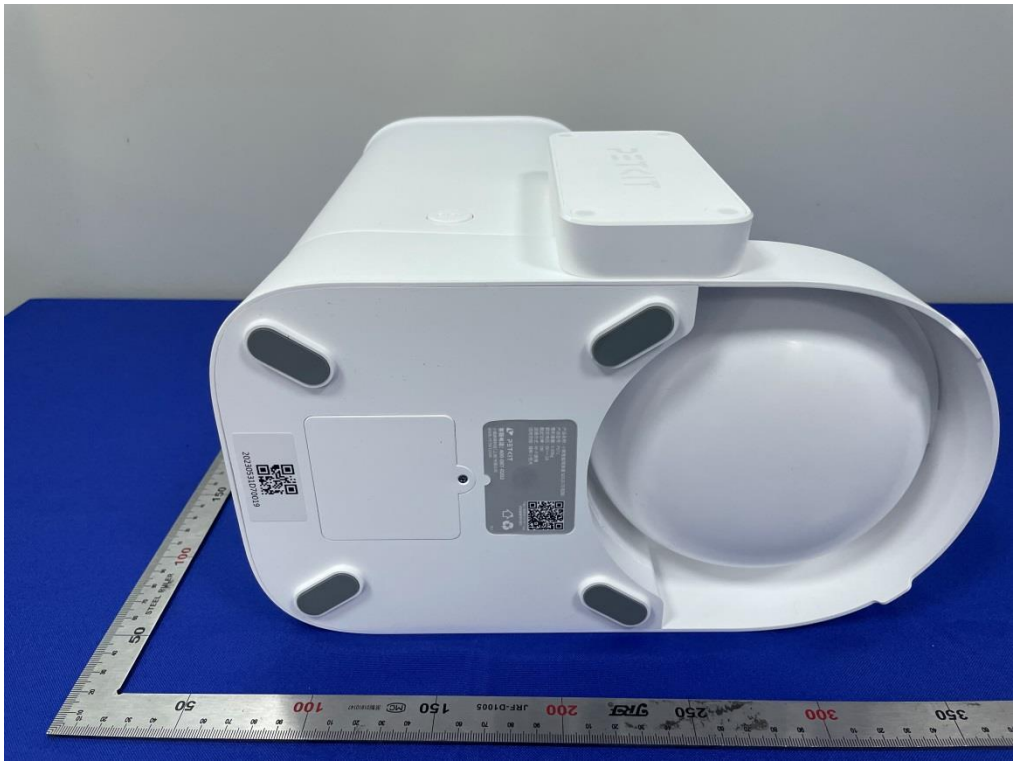
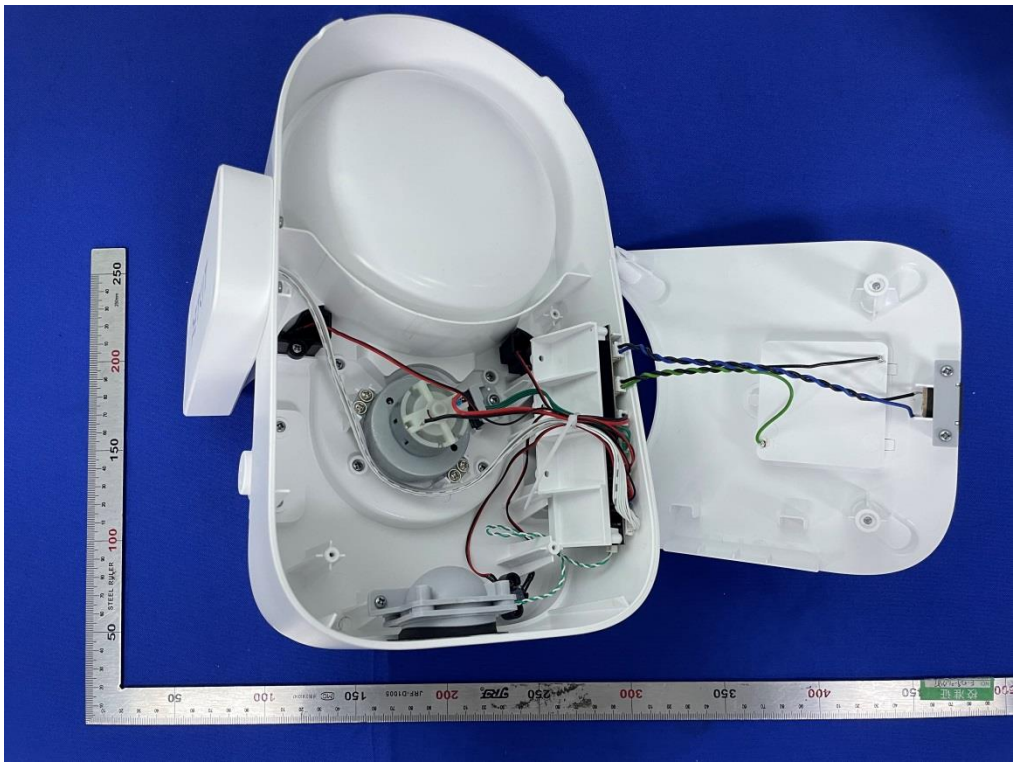


Bottom of the sample



Open of the sample

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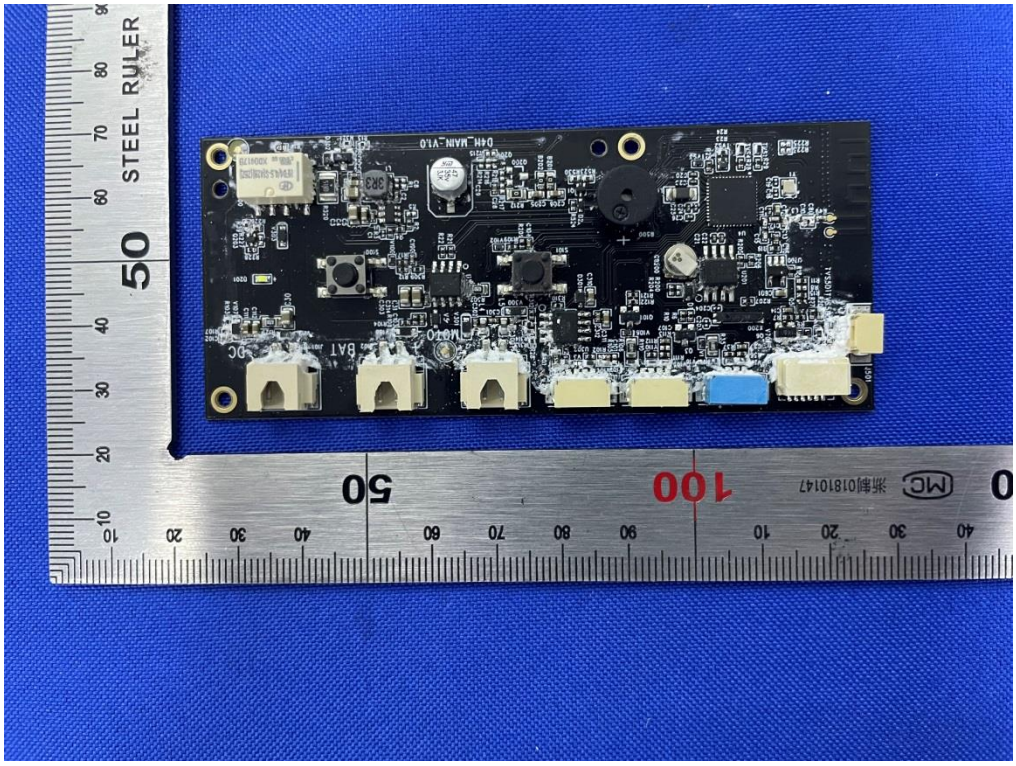
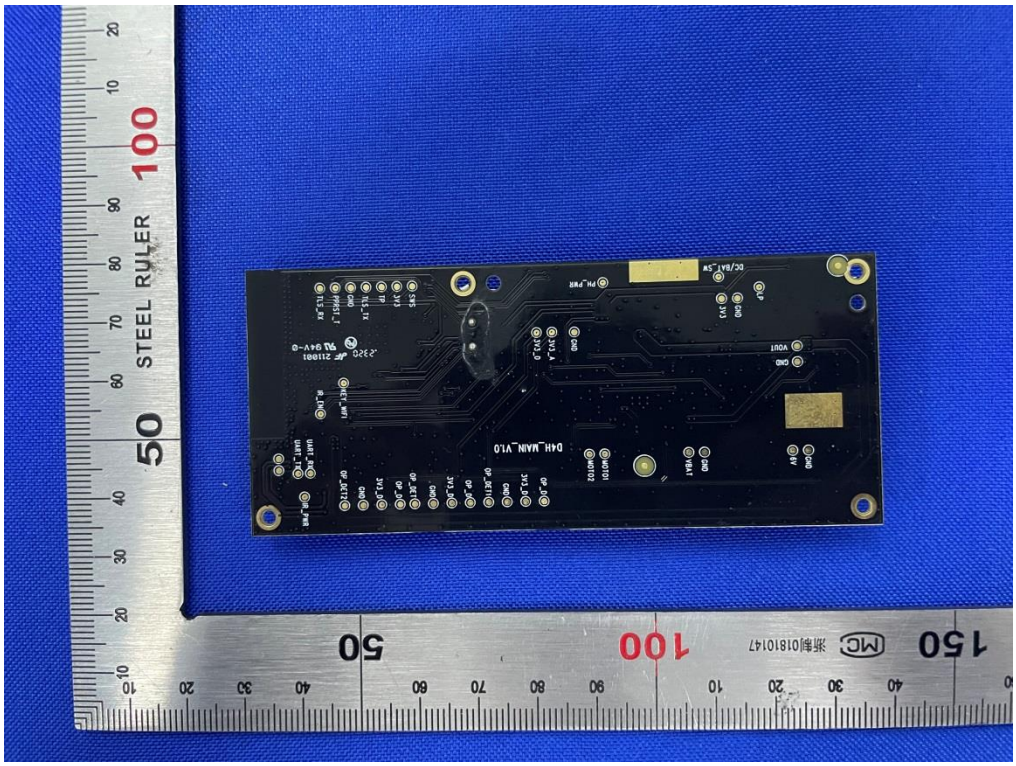


Internal-1 of the sample



Internal-2 of the sample

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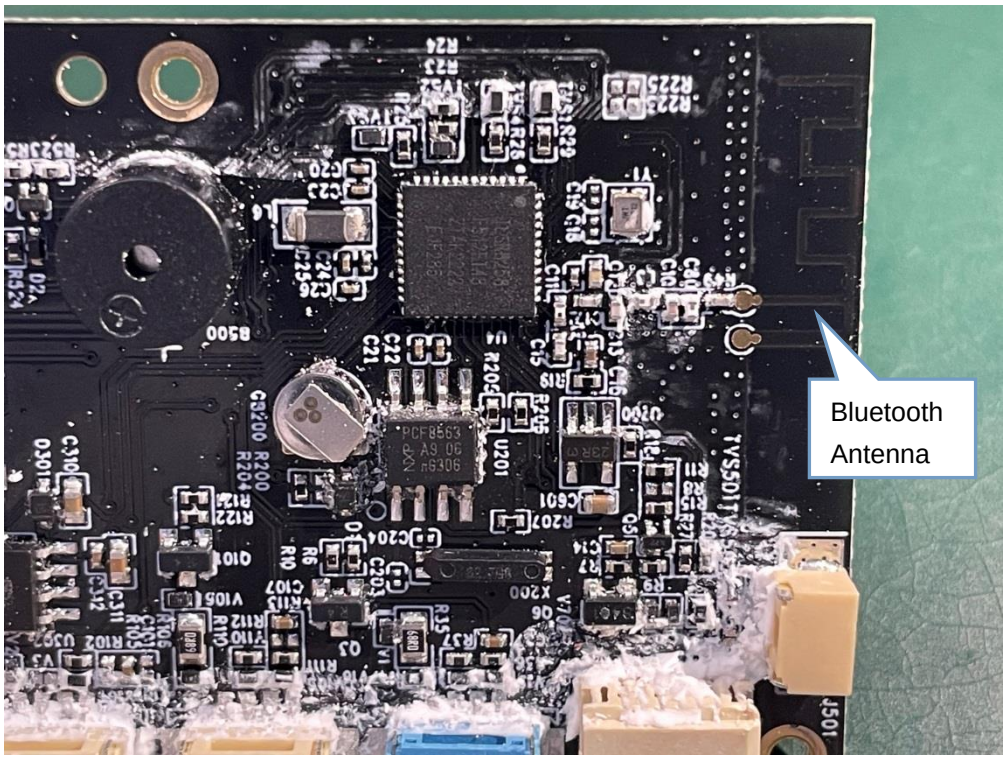
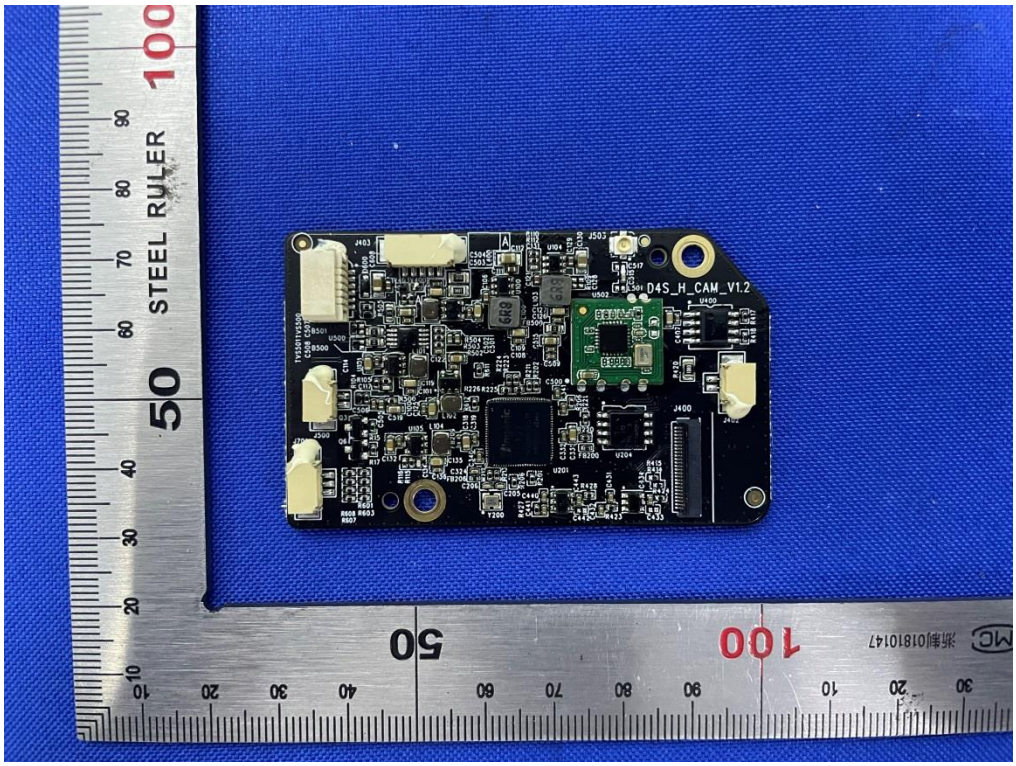
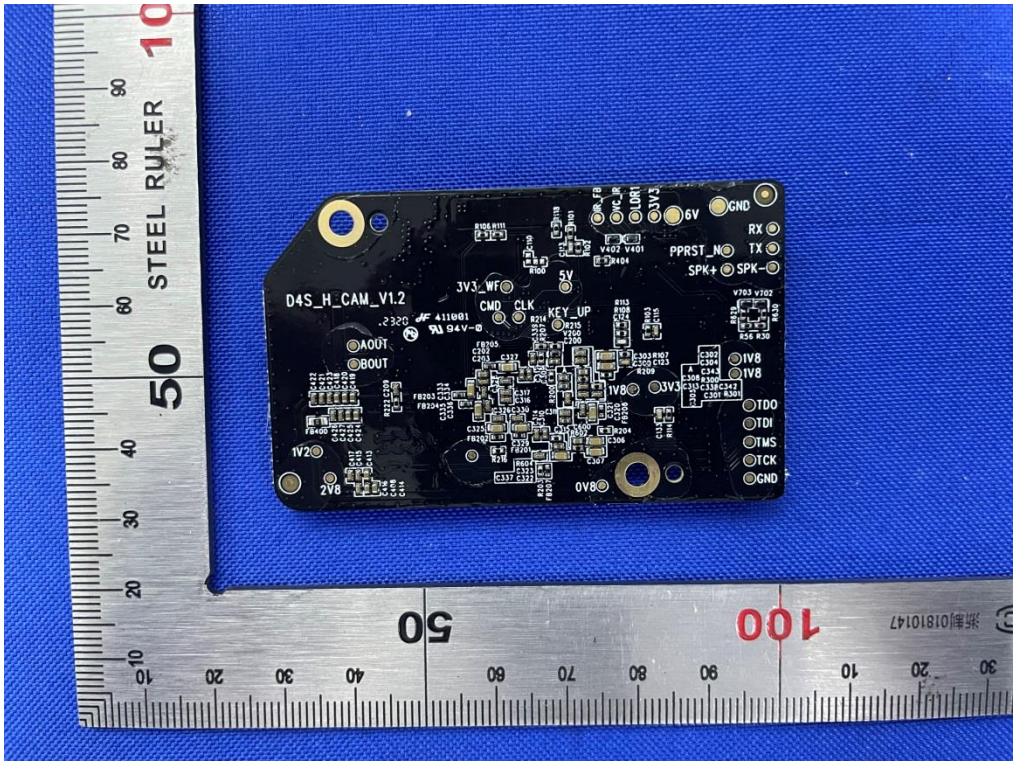


Bluetooth Antenna position



Internal-3 of the sample



Internal-4 of the sample

WIFI Antenna position

End of the report