

MPE TEST REPORT

Report No.: SHE26040021-02GE

Date: 2026-04-27

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

Product Name : PETKIT PUROBOT CRYSTAL DUO Lite
SELF-CLEANING CAT LITTER BOX

Brand Name : PETKIT
Model Name : P9907
Sample Acquisition Method : Sent by Client
Sample No. : E26040021-01#03
E26040021-01#06

FCC ID : 2A72N-P9907

Standard : FCC Part 2.1091

Date of Receipt : 2026-04-09
Date of Test : 2026-04-11~ 2026-04-25
Date of Issue : 2026-04-27

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.

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

Company Name	Shanghai Ingeer Testing Technology Co., Ltd.
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999

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, China
Contact Person	TingHe
Telephone	+86 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 PUROBOT CRYSTAL DUO Lite SELF-CLEANING CAT LITTER BOX	
Brand Name	PETKIT	
Test Model Name	P9907	
FCC ID	2A72N-P9907	
Mode of Operation	WLAN 802.11b/g/n(HT20) for 2.4GHz WLAN 802.11a/n(HT20) for 5GHz Bluetooth LE NFC	
Frequency Range	Mode	Frequency (MHz)
	802.11b/g/n(HT20)	2412~2462
	802.11a/n(HT20))	5180~5240
		5745~5825
	Bluetooth LE	2402~2480
	NFC	13.56
Modulation Type	DSSS/OFDM for WLAN 2.4GHz and OFDM for WLAN 5GHz GFSK for Bluetooth LE ASK for NFC	
Antenna Type	Internal Antenna for Wi-Fi PCB Antenna for Bluetooth LE	

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	PCB Antenna for NFC
Antenna Gain	WLAN 2.4G: 3.26dBi WLAN 5G: 3.42dBi Bluetooth LE: -5.45dBi
Hardware Version	V1.0
Software Version	V1.59(BLE); V1.107(WIFI)

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

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 the 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 ²)	Averaging time (minutes)
(i) 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
(ii) 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)

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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	2412~2462	14.76	3.26	63.39	0.01261	1.0
WLAN 5GHz	5180~5240	14.47	3.42	61.52	0.01224	1.0
	5745~5825	14.45	3.42	61.24	0.01218	1.0
BLE	2402~2480	-2.76	-5.45	0.15	0.00003	1.0

NFC Max. Field Strength of Fundamental is 61.45dBuV/m(QP)@3m

Operation Mode	Frequency Range (MHz)	Field Strength of Fundamental (dBuV/m@3m)	EIRP (dBm)	EIRP (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)
NFC	13.56	61.45	-33.75	0.0004216965	0.00000008389	0.98

Note: E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 m.

2.4 Results for transmit simultaneously

Configurations	Maximum MPE Value (Ratio)				Limit
	WLAN 2.4GHz	BLE	NFC	Transmit Simultaneously	
WLAN 2.4GHz + BLE+NFC	0.01261	0.00003	0.0000000856	0.0126400856	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
3. Since Bluetooth LE and WIFI use different mainboards and antennas, so Bluetooth LE and WIFI can be transmit simultaneously.
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.

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3 Appendixes

3.1 External Photo of the Sample



All of the sample



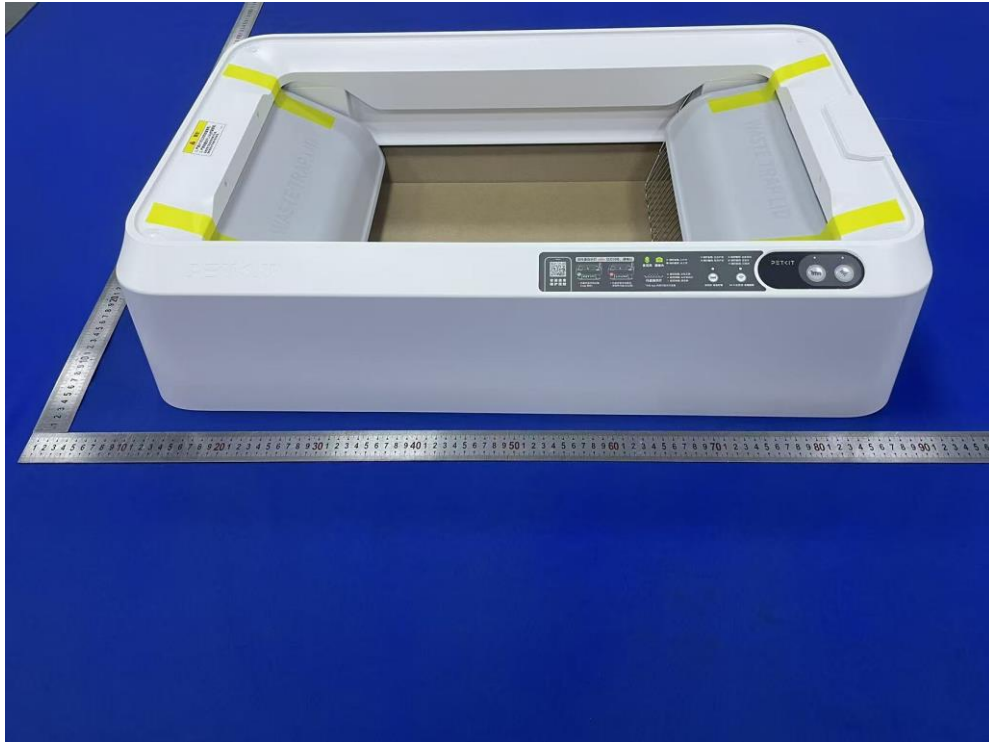
Adapter of the sample

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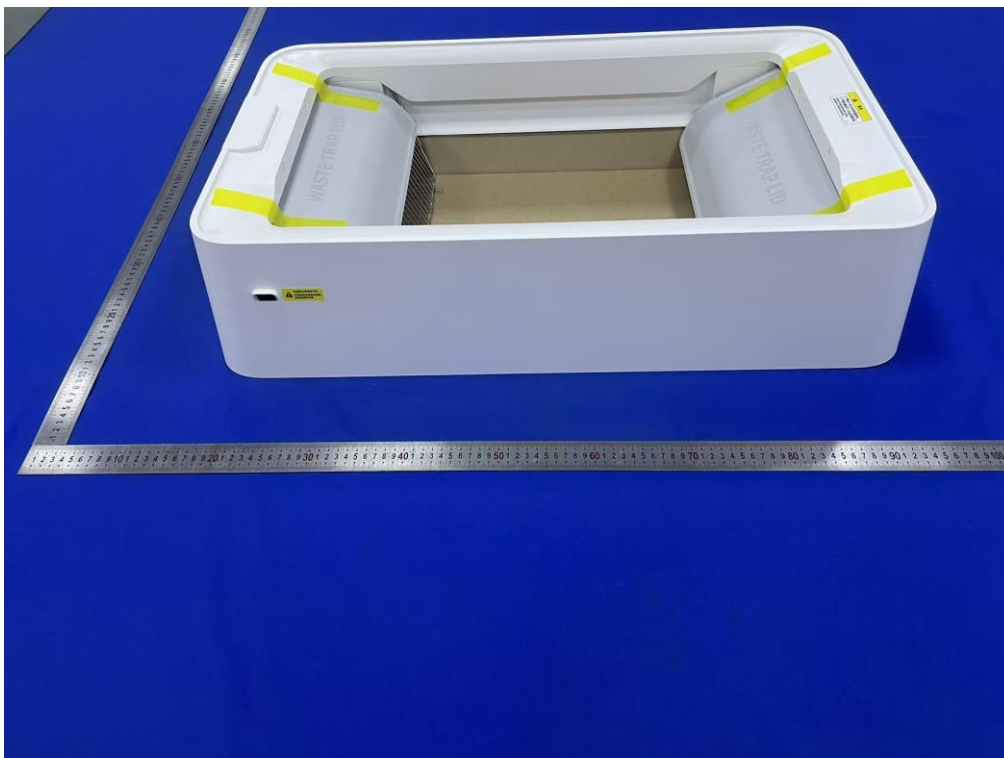
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Front of the sample



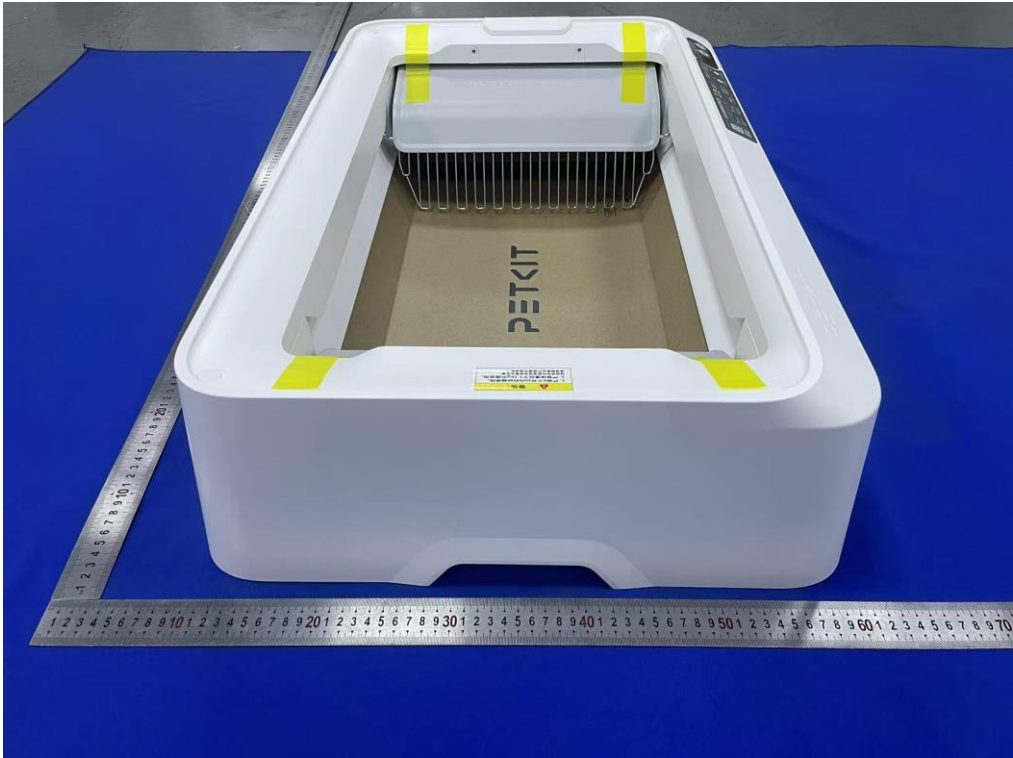
Rear of the sample

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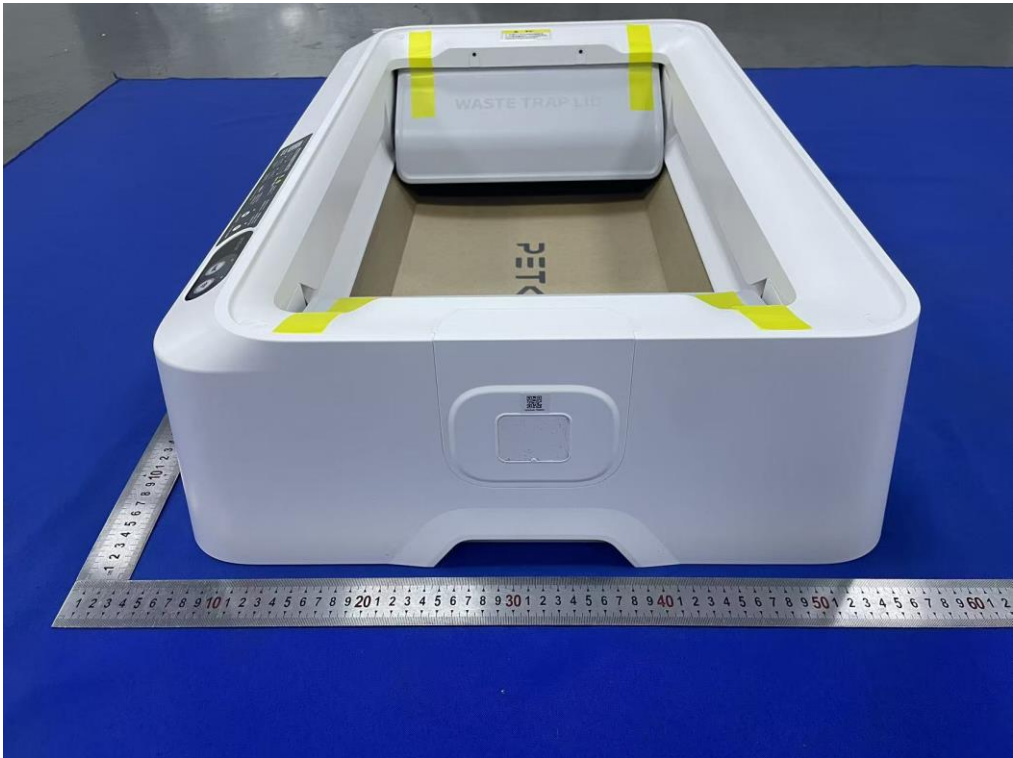
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Left of the sample



Right of the sample

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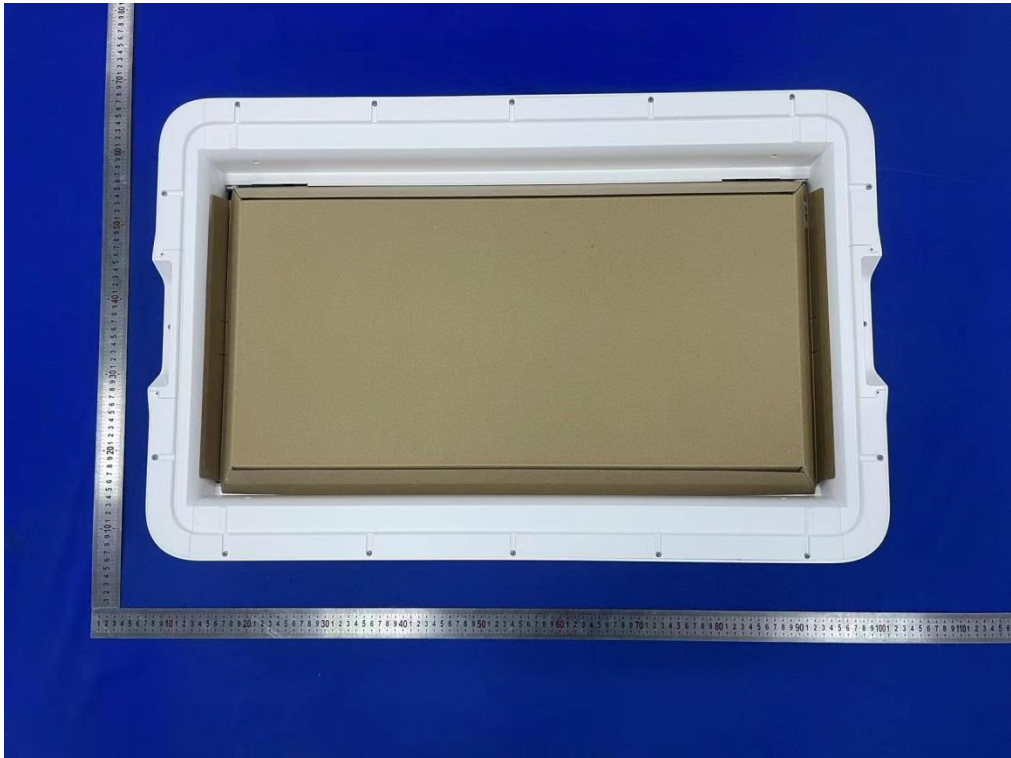
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Top of the sample



Bottom of the sample

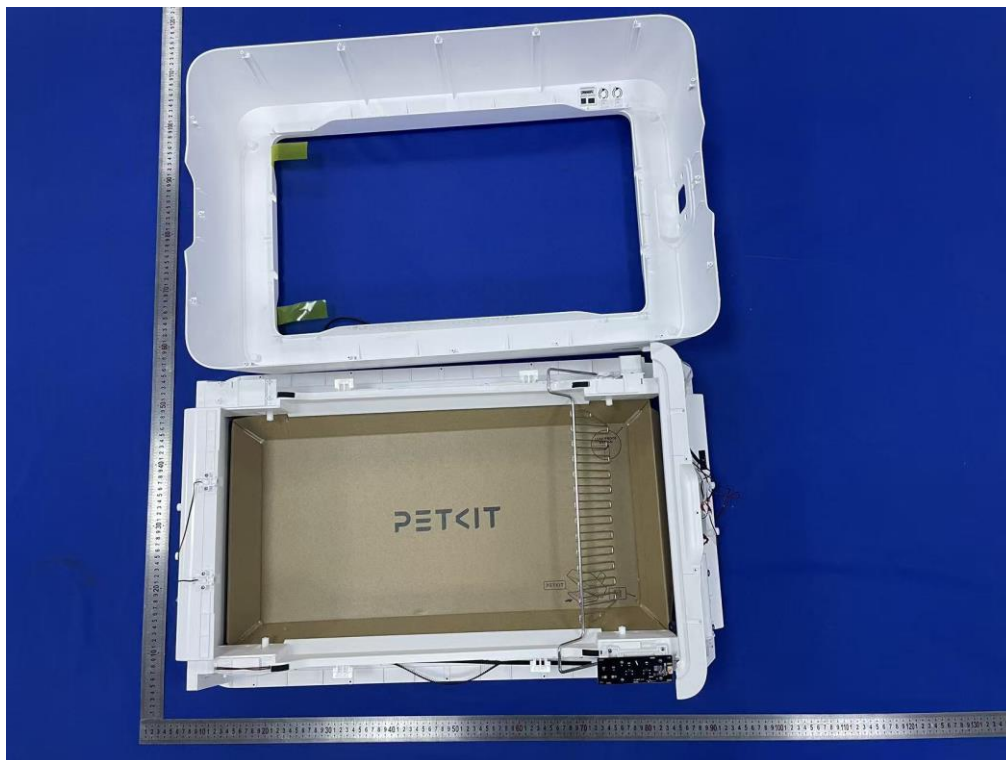
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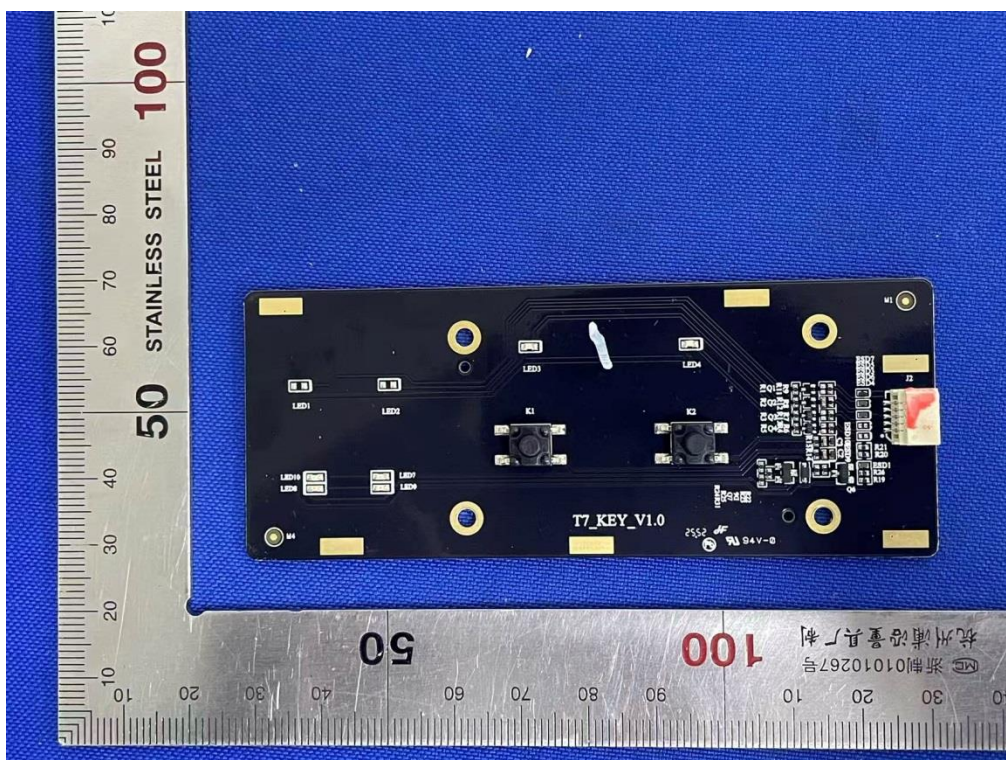
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3.2 Internal Photo of the Sample



Open of the sample



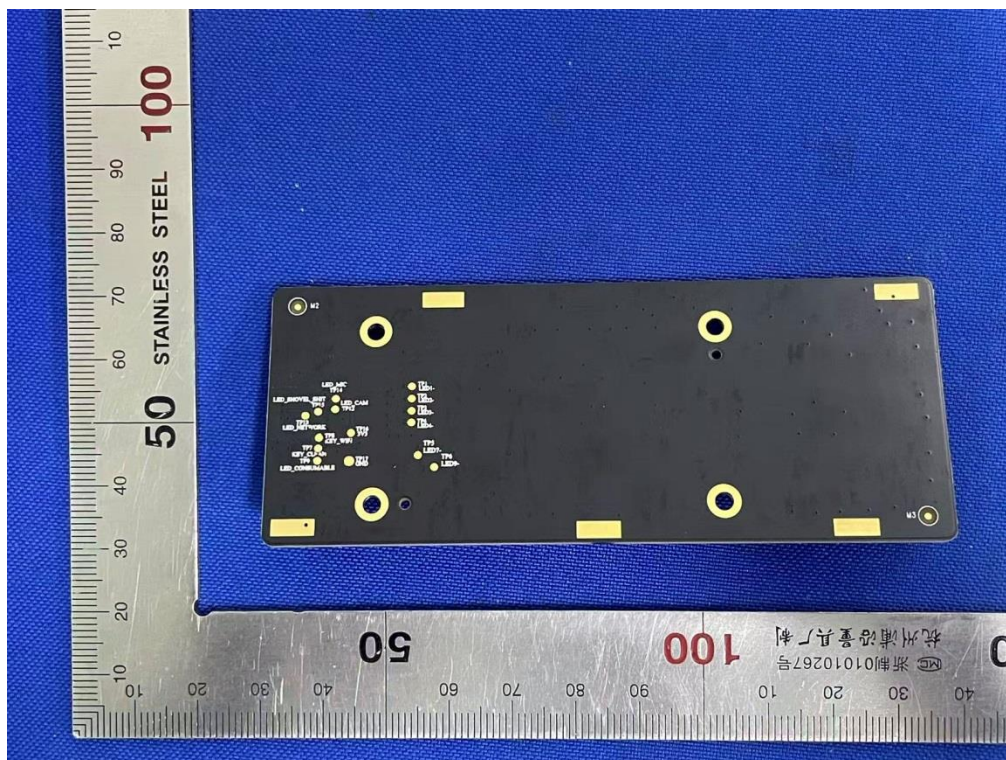
Internal-1 of the sample

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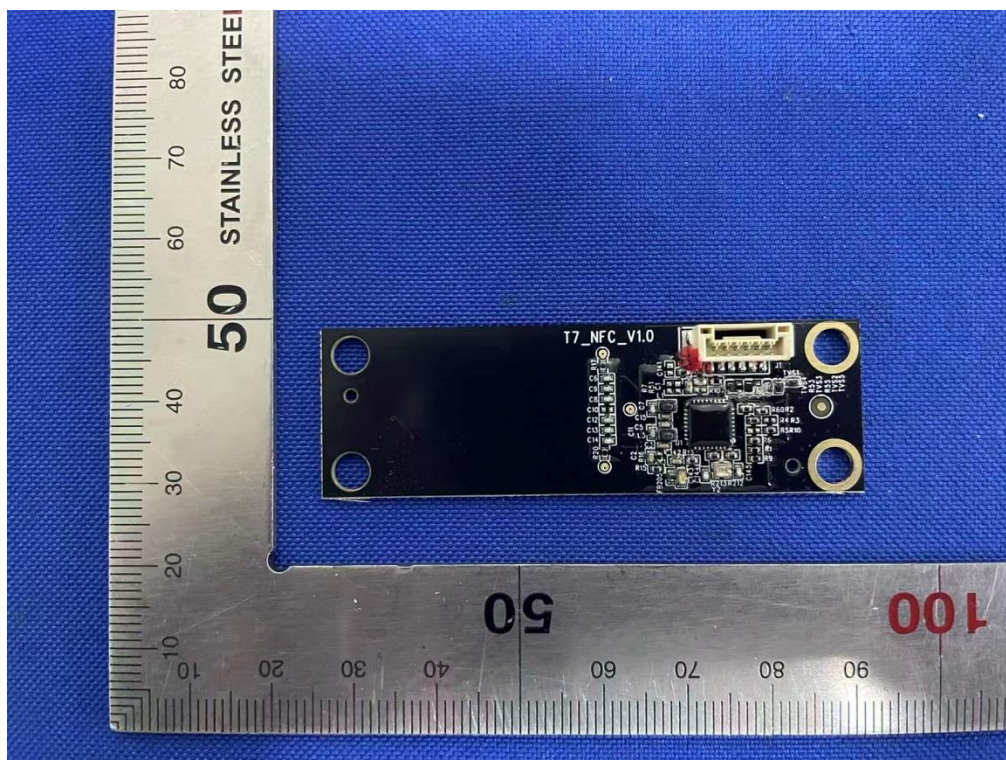
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Internal-2 of the sample



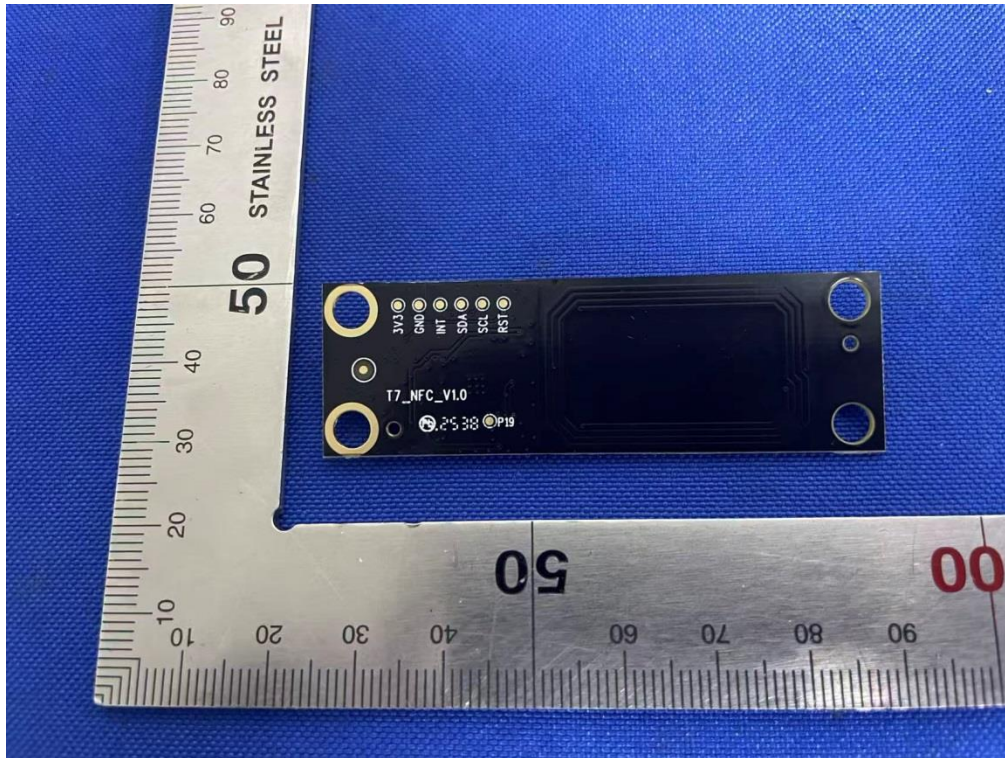
Internal-3 of the sample

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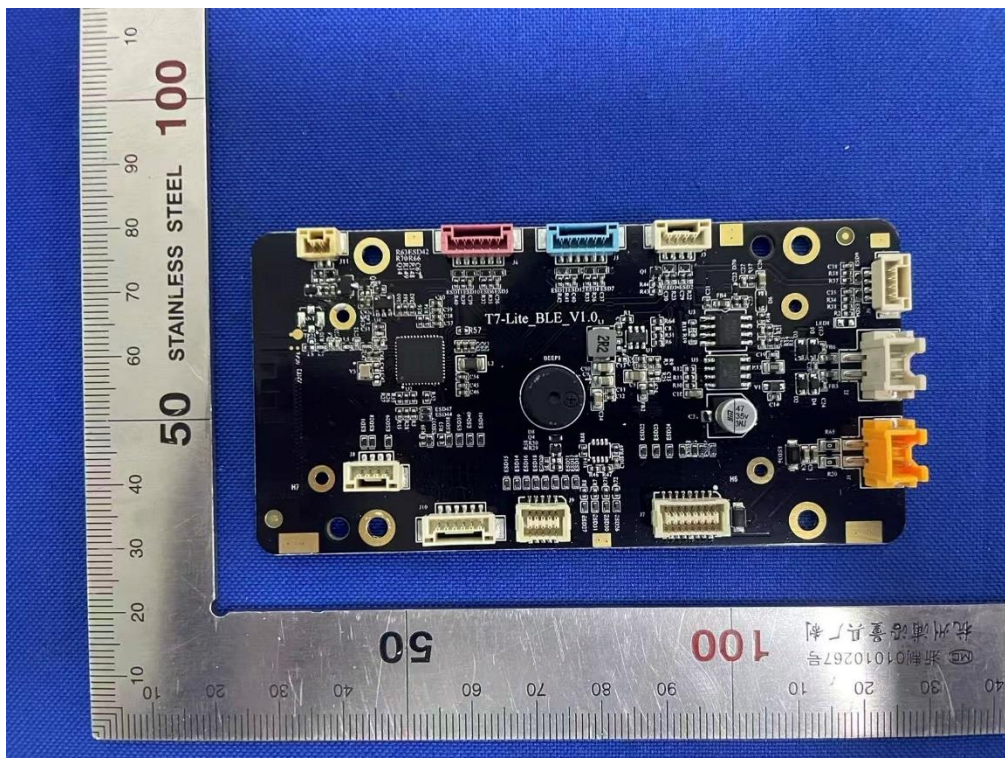
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Internal-4 of the sample



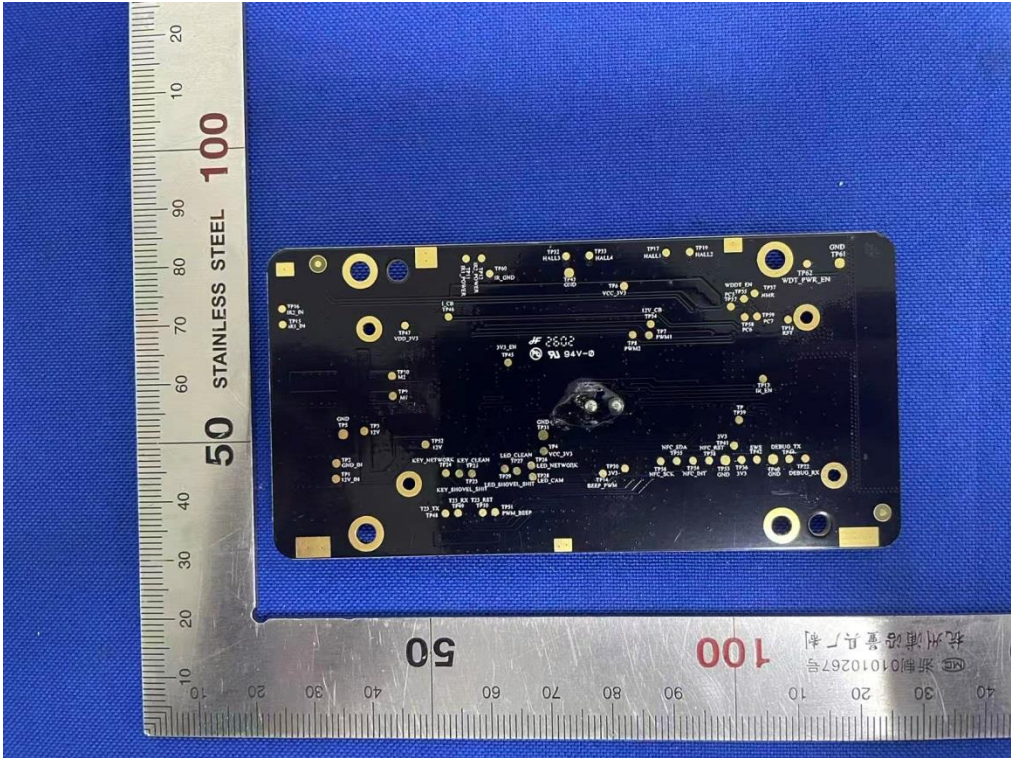
Internal-5 of the sample

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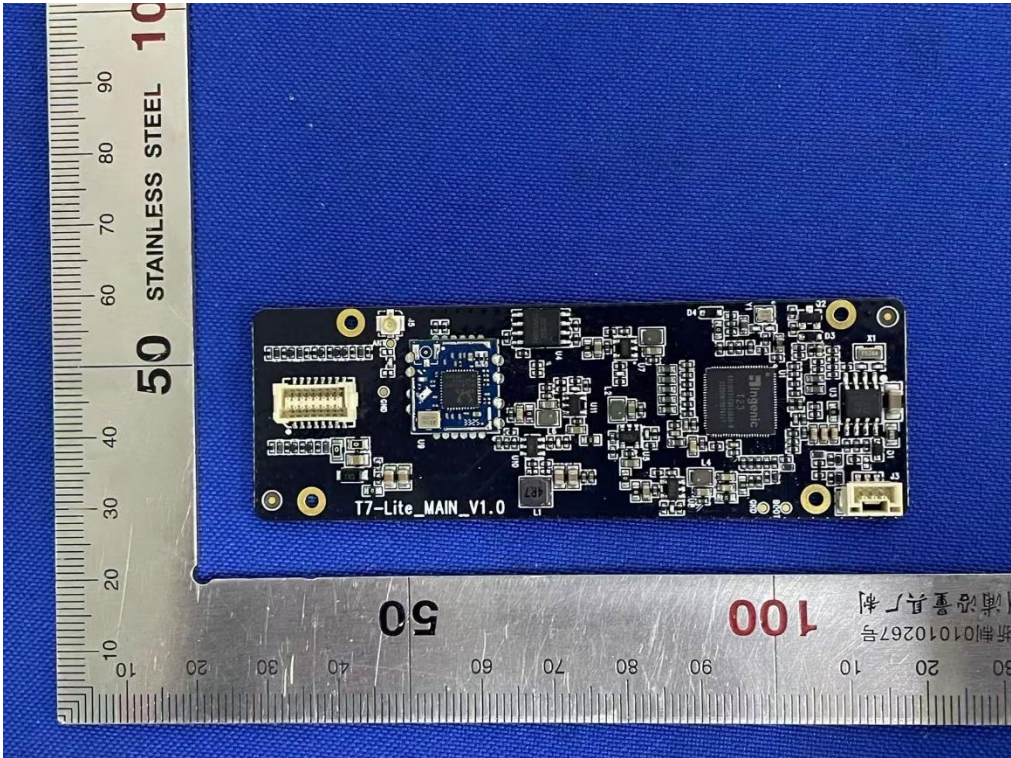
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Internal-6 of the sample



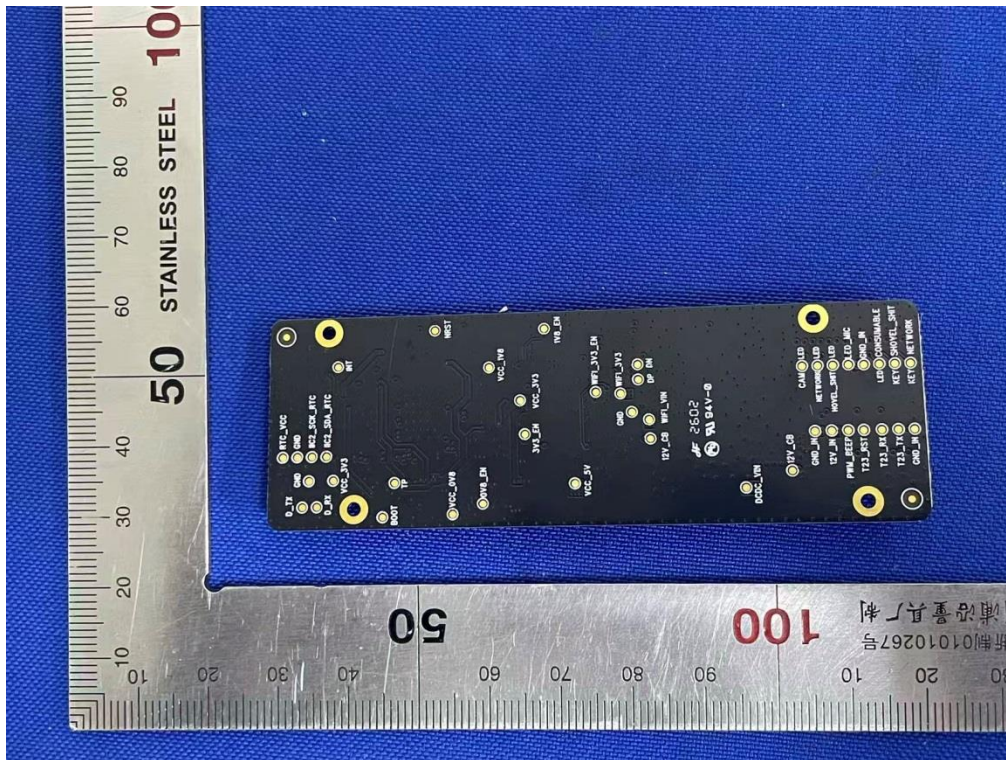
Internal-7 of the sample

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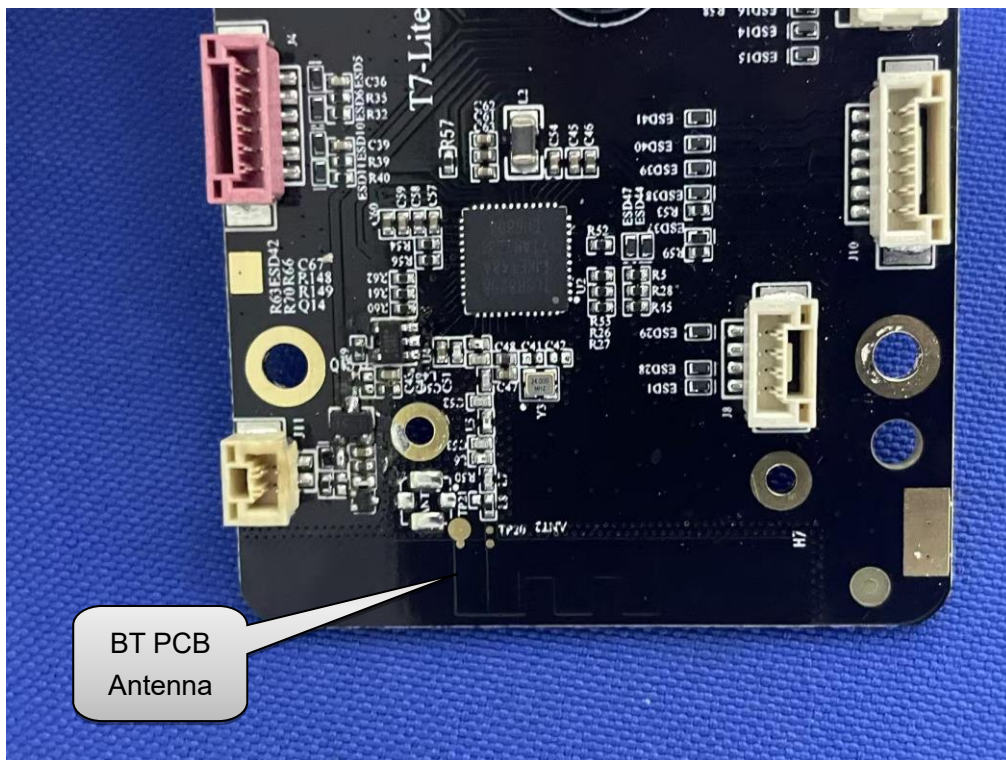
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Internal-8 of the sample



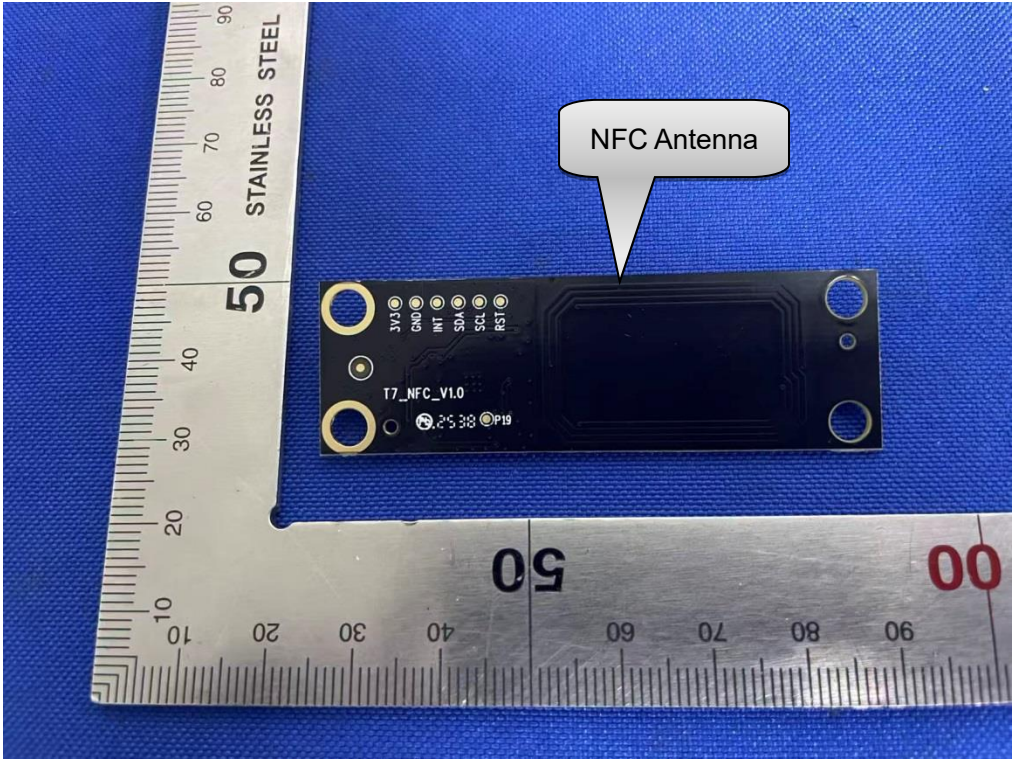
Bluetooth Antenna position

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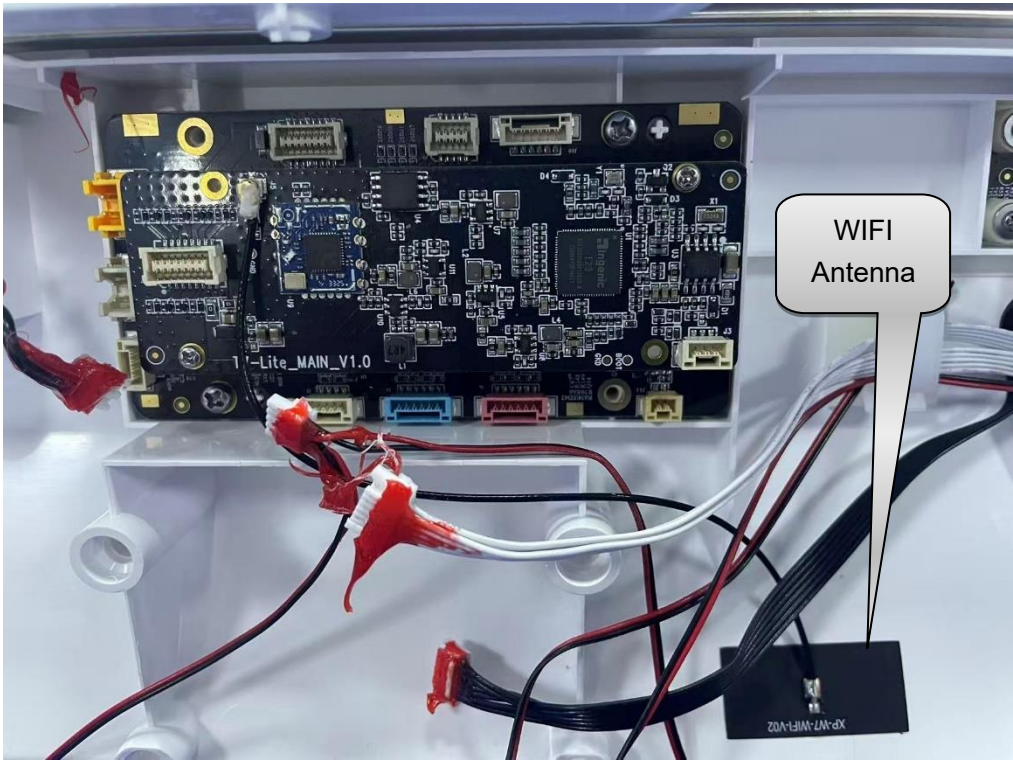
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NFC Antenna position



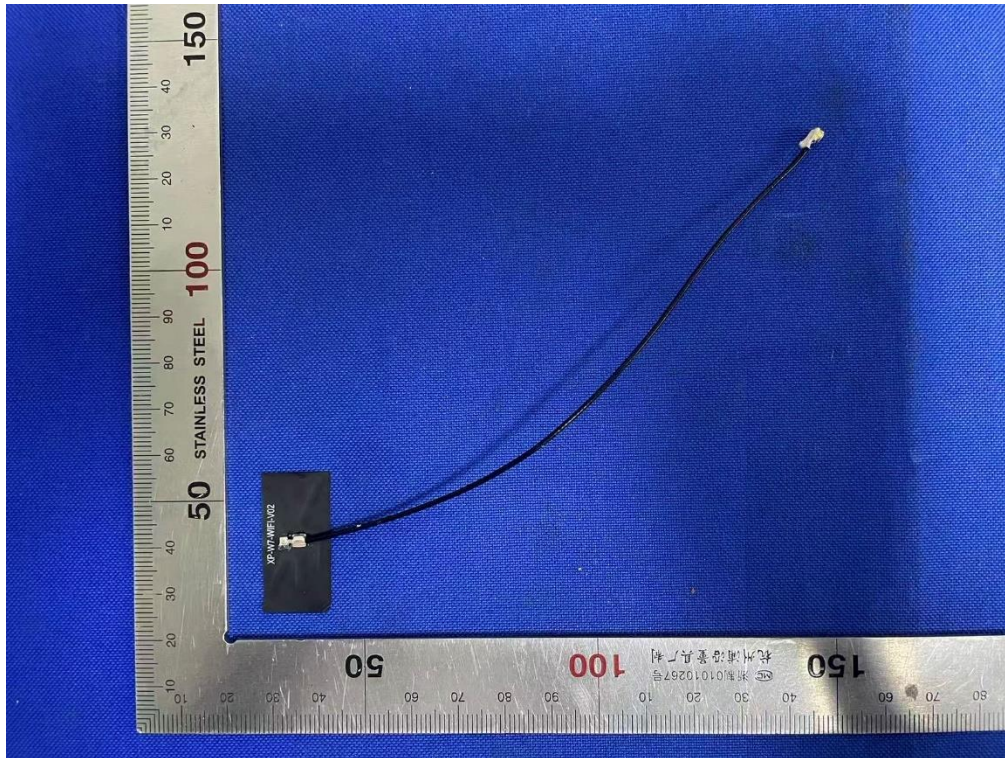
WIFI Antenna position

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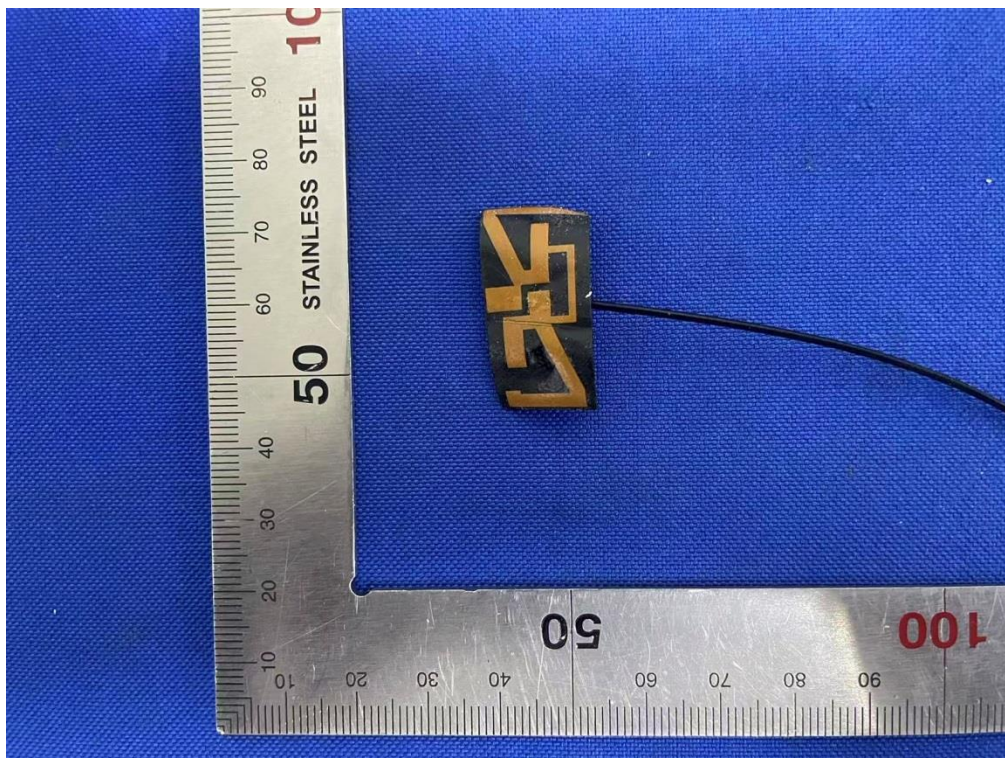
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WiFi Antenna-Front



WiFi Antenna-Back

End of the report