



Report No.: 86260324086

Date: March 28, 2026

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RF TEST REPORT

Applicant : TangibleFuture Innovation Technology (Shenzhen) Co., Ltd.

Address: Room 517, Nanshanyun Technology Building, Vanke Cloud City, Liuxin Third Street, Xili Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province, China

Manufacturer: TangibleFuture Innovation Technology (Shenzhen) Co., Ltd.

Address: Room 517, Nanshanyun Technology Building, Vanke Cloud City, Liuxin Third Street, Xili Community, Xili Sub-district, Nanshan District, Shenzhen City, Guangdong Province, China

EUT Name: LOOI Robot

Trade mark: /

Model: L-01, L-02, L-03, L-04, L-05, L-06

FCC ID: 2BU4Q-L01

Rating: Type-C Input : DC 5V/2A, 9V/2A or 3.7V by battery

Sample Received Date: Mar. 24, 2026

Test Date: Mar. 24, 2026~Mar. 28, 2026

Applicable Standards: CFR 47, FCC Part 2.1091

Test Result Pass

Prepared by:

Evan Fang

Evan Fang/Project Engineer

Approved by:

Bruce Zhang

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

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Revision History

Version	Date of Issue	Description
V00	March 28, 2026	Original Version

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1. EUT DESCRIPTION

Product:	LOOI Robot
Test Model:	L-01
Additional Model:	L-02, L-03, L-04, L-05, L-06
Rating:	Type-C Input : DC 5V/2A, 9V/2A Battery Model:TQ-P105050 3.7V 6000mAh
FCC ID:	2BU4Q-L01
Antenna Type:	PCB Antenna
Antenna Gain:	3.3dBi
Operation Frequency:	2402-2480MHz
Number of Channels:	79
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Hardware Version:	N/A
Software Version:	N/A
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The product model L-01 is the same PCB layout, electronic schematic and Antenna with L-02, L-03, L-04, L-05, L-06. Only the model name is difference. 4) The test results in the report only apply to the tested sample.	

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2. RF EXPOSURE EVALUATION

2.1. Requirement

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

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 Exposures				
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
300-1500			f/300	6
1500-100,000			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
300-1500			f/1500	30
1500-100,000			1.0	30

2.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm²)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) π=3.142

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2.3. Tune-up Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
Bluetooth	8.05	7.5±1dBm

2.4. Evaluation Result

Mode	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
Bluetooth	8.5	3.3	2.14	7.0795	0.0030	1	PASS

2.5. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

End of Report

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