



Report No.: 886260319473

Date: April 28, 2026

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RF TEST REPORT

Applicant : Tianhui Electric (Suzhou) Co., Limited

Address: NO.1801 Pangjin Road, Wujiang Economic and Eechnological Development Zone, Suzhou City, Jiangsu Province, China

Manufacturer: Tianhui Electric (Suzhou) Co., Limited

Address: NO.1801 Pangjin Road, Wujiang Economic and Eechnological Development Zone, Suzhou City, Jiangsu Province, China

EUT Name: Laser leveling instrument

Trade mark: /

Model: TRL550, TRL205, TRL280, TRL300, TRL360, TRL366, TRL380, TRL405, TRL410, TRL440, TRL525, TRL540, TRL680

FCC ID: 2BU5O-TRL550

Power supply: Input: DC5V.2A
Battery: DC14.8V, 2000mAh

Adapter information: Input: AC 100-240V~50/60Hz
Output: DC5.0 $\pm$ 0.25V 2000mA

Sample Received Date: Mar.19, 2026

Test Date: Mar. 19, 2026~Apr. 29, 2026

Applicable Standards: 47 CFR 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	April 28, 2026	Original Version

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1. EUT DESCRIPTION

Product:	Laser leveling instrument
Test Model:	TRL550
Additional Model:	TRL205, TRL280, TRL300, TRL360, TRL366, TRL380, TRL405, TRL410, TRL440, TRL525, TRL540, TRL680
Rating:	Input:AC 100-240V~50/60Hz 0.6A Output:5.0V 2000mA
FCC ID:	2BU5O-TRL550
Antenna Type:	Bluetooth:PCB Antenna 2.4GHz:FPC Antenna
Antenna Gain:	Bluetooth:PCB Antenna 2.4GHz:FPC Antenna
Operation Frequency:	Bluetooth:2402-2480MHz 2.4GHz:2405-2480MHz
Number of Channels:	Bluetooth:40 2.4GHz:151
Modulation Type:	GFSK
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 TRL550 is the same PCB layout, electronic schematic and Antenna with TRL205, TRL280, TRL300, TRL360, TRL366, TRL380, TRL405, TRL410, TRL440, TRL525, TRL540, TRL680.Only the models is not 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

For 2.4GHz

Frequency (MHz)	Max Field strength(dBuV/m)	EIRP (dBm)	Conduct Power (dBm)	Maximum Tune up Power (dBm)
2443	89.8	-5.35	-1.35	-1±1

Note:

E=EIRP-20log D+104.8

E=electric field strength in dBuV/m

EIRP=equivalent isotropic radiated power in dBm

D=specified measurement distance in meters(3m)

For Bluetooth

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
Bluetooth	3.41	3±1

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	4	-0.58	0.87	2.5119	0.0004	1	PASS
2.4GHz	0	4	2.51	1.0000	0.0005	1	PASS

For simultaneous transmission:

$$\sum_i \frac{S_i}{S_{Limit,i}} = S_{BT}/S_{limit} + S_{2.4GHz}/S_{limit} = 0.0009 < 1$$

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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