



Report No.: PTC20092200901E-FC02

FCC TEST REPORT

FCC ID: 2AX69-70T

Product	:	Intelligent Electronic Device
Model Name	:	WB-HF70T HF700, HF800, HF215, HV100, HV500, HC150, HC180, HA210, HA310, HW150, HZ100, HZ300, HZ500, HZ600, HZ700, HZ800, HZ900
Brand	:	 The logo for Wabon Technology features a stylized globe icon with a grid pattern, the word 'WABON' in blue capital letters, and the Chinese characters '伟邦科技' (Wei邦 Keji) below it.
Report No.	:	PTC20092200901E-FC02

Prepared for

Guangdong Wabon Technology Co. Ltd

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Prepared by

Precise Testing & Certification Co., Ltd

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TEST RESULT CERTIFICATION

Applicant's name : Guangdong Wabon Technology Co. Ltd
Address : 4th Floor, A-7 Building No. 17 Shenhai Rd, HAO Science Park, Nanhai Foshan
Manufacturer's name : Guangdong Wabon Technology Co. Ltd
Address : 4th Floor, A-7 Building No. 17 Shenhai Rd, HAO Science Park, Nanhai Foshan
Product name : Intelligent Electronic Device
Model name : WB-HF70T
Model name : HF700, HF800, HF215, HV100, HV500, HC150, HC180, HA210, HA310, HW150, HZ100, HZ300, HZ500, HZ600, HZ700, HZ800, HZ900
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Oct 15, 2020 to Nov 11, 2020
Date of Issue : Nov 11, 2020
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang". The signature is fluid and cursive, with "Leo" on the top line and "Yang" on the bottom line.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that reads "Chris Du". The signature is cursive and appears to be a stylized form of the name.

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Intelligent Electronic Device
Model Name	:	WB-HF70T
Additional model	:	HF700, HF800, HF215, HV100, HV500, HC150, HC180, HA210, HA310, HW150, HZ100, HZ300, HZ500, HZ600, HZ700, HZ800, HZ900 Note: The appearance color is different, and the other circuit principles are the same.
Specification	:	802.11b/g/n HT20
Operation Frequency	:	2412-2462MHz for 802.11b/g/n(HT20)
Number of Channel	:	11 channels for 802.11b/g/n(HT20)
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	Patch antenna
Antenna Gain	:	1 dBi
Power supply	:	Adapter model: Input:12V 3A 36W
Hardware Version	:	N/A
Software Version	:	N/A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
WIFI	1.26	18.67	73.62	0.0184	1	Pass

*****THE END REPORT*****