



RF TEST REPORT

Product Name: 4G GPS TRACKER

Model Name: HW-C02G(Series Model name Please see page 5)

FCC ID: 2AQSK-C02G

Issued For : HuiZhou BoShiJie Technology CO.,Ltd
No. 1,Huifeng West three road, Zhongkai Hi-tech Zone,
Huizhou, 518110 China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT25B064HA01

Sample Received Date: Feb. 19, 2025

Date of Test: Feb. 19, 2025 ~ Mar. 18, 2025

Date of Issue: Mar. 18, 2025

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TEST REPORT CERTIFICATION

Applicant: HuiZhou BoShiJie Technology CO.,Ltd

Address: No. 1,Huifeng West three road, Zhongkai Hi-tech Zone,
Huizhou, 518110 China

Manufacturer: HuiZhou BoShiJie Technology CO.,Ltd

Address: No. 1,Huifeng West three road, Zhongkai Hi-tech Zone,
Huizhou, 518110 China

Product Name: 4G GPS TRACKER

Trademark: N/A

Model Name: HW-C02G, KG-08, KG-12, KG-18, KG-22, A5E-9, HW-B02C,
HW-A01G, HW-A02G, HW-EG01G, HW-EG02G, HW-EG03G,
HW-D03G, OTG10, OTRACK-2, HW-C03G, HW-B03G, HW-
A03G, EG05W, HW-D06G, OTG12, HW-C04G, HW-C06G, HW-
C08G, HW-C10G, HW-B02G, HW-B04G, HW-B06G, HW-B08G,
HW-A02GL, HW-B02GL, HW-C02GL, HW-A03G, HW-A06G,
HW-A08G, OTRACK-4, OTRACK-6, OTRACK-8, OTG20,
OTG30, OTG40, HW-EG04G, HW-EG05G, HW-EG06G, HW-
D04G, HW-D06G, HW-D08G, EG08W, EG09W, EG10

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR §2.1091 KDB 447498 D01 General RF Exposure Guidance v06	PASS

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Revision History

Rev.	Issue Date	Revisions
00	Mar. 18, 2025	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	4G GPS TRACKER	
Trademark:	N/A	
Model Name:	HW-C02G	
Series Model:	KG-08, KG-12, KG-18, KG-22, A5E-9, HW-B02C, HW-A01G, HW-A02G, HW-EG01G, HW-EG02G, HW-EG03G, HW-D03G, OTG10, OTRACK-2, HW-C03G, HW-B03G, HW-A03G, EG05W, HW-D06G, OTG12, HW-C04G, HW-C06G, HW-C08G, HW-C10G, HW-B02G, HW-B04G, HW-B06G, HW-B08G, HW-A02GL, HW-B02GL, HW-C02GL, HW-A03G, HW-A06G, HW-A08G, OTRACK-4, OTRACK-6, OTRACK-8, OTG20, OTG30, OTG40, HW-EG04G, HW-EG05G, HW-EG06G, HW-D04G, HW-D06G, HW-D08G, EG08W, EG09W, EG10	
Model Difference:	Only the appearance and model name are different.	
Frequency Bands:	GSM	850: 824 MHz ~ 849MHz 1900: 1850 MHz ~ 1910MHz
	LTE	LTE Band 2:1850~1910MHz LTE Band 4:1710~1755MHz LTE Band 5: 824~849MHz LTE Band 7:2500~2570MHz LTE Band 12: 699-716MHz LTE Band 13: 777-787MHz LTE Band 17:704~716MHz LTE Band 66: 1710-1780MHz
Rating:	Input: DC 12V	
Battery:	Capacity: 180mAh Rated Voltage: 3.7V	
Hardware Version:	2305005-V1.2	
Software Version:	SDK:CAT1_BC76O_HA3_SDKV3.94_NF05-0900FA223301_Aug 16 2023 14:26:37, APP:HWC02G#BSJFGTS39406D230920_2023/09/20,15:02:38	

1.2 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
0.3-3.0	614	1.63	*(100)
3.0-30	1842/f	4.89/f	*(900/f ²)
30-300	61.4	0.163	1.0
300 - 1500	--	--	F/300
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
0.3-1.34	614	1.63	*(100)
1.34-30	824/f	2.19/f	*(180/f ²)
30-300	27.5	0.073	0.2
300 - 1500	--	--	F/1500
1500 – 100000	--	--	1.0

F= Frequency in MHz

* = Plane-wave equivalent power density.

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 EUT OPERATION CONDITION

EUT was enabled to transmit and receive at lowest, middle and highest channels.

2.4 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm or more separation distance from the antenna should be included in the User manual. So, this device is classified as Mobile device.



2.5 TEST RESULT

Turn up Result

Mode	Turn up Power
GSM 850	33±1dBm
GSM 1900	29.5±1dBm
LTE B2	25±1dBm
LTE B4	22.5±1dBm
LTE B5	24.5±1dBm
LTE B7	23.5±1dBm
LTE B12	24.5±1dBm
LTE B13	23.5±1dBm
LTE B17	23.5±1dBm
LTE B66	21±1dBm

The MPE result of worst mode:

RF Function	Frequency (MHz)	Max Turn up Power (dBm)	Duty cycle factor	Max Power (dBm)	Max Power (mW)	ANT Gain (dBi)	ANT Gain (gain of antenna in linear scale)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
GSM (1Slot)	848.8	34	-9.03	33.53	2254.24	-1.55	0.70	0.314	0.566	0.555	Pass
LTE	1880	26	0	25.68	369.83	1.98	1.58	0.116	1.253	0.093	Pass

Note:

1. The Maximum Power Density is less than the limit, complies with the exemption requirements.

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