TEST REPORT

Reference No.	:	WTF22F06121523W
FCC ID	:	2A7VB-HW65992WH
Applicant	:	FOSHAN QIANGHONGXUAN CRAFTS CO., LTD.
Address	:	No.1 self compiled by the side of baiyintan fishing ground, Qingqi wanglougang, southwest Street, Sanshui District, Foshan City, Guangdong Province
Manufacturer	:	The same as above
Address	:	The same as above
Product Name	:	Bluetooth audio
Model No	:	HW65992WH
Test specification	:	FCC CFR47 Part 1 Subpart 2 (Section2.1091): 2020 KDB 447498 D01 v06
Date of Receipt sample	:	2022-06-26
Date of Test	:	2022-07-10 to 2022-07-15
Date of Issue	:	2022-07-26
Test Report Form No.	:	WEW-MPE-01A
Test Result	:	**Pass**

Remarks:
The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:
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Tested by:

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Approved by:

Tommy Zhou

1 Revision History

Test Report No.	Date of Issue	Description	Status
WTF22F06121523W	2022-07-26	Original	Valid

2 Contents

3 General Information

3.1 General Description of E.U.T

Product Name ..... : Bluetooth audio

Model No. ..... : HW65992WH

Model Description ..... : ---

Rated Voltage..... : DC 12V

Battery Capacity ..... : ---

Power Adapter ..... : ---

3.2 Technical Characteristics of BT

Bluetooth Version ..... : V4.2(BR+EDR mode)

Frequency Range ..... : 2402-2480MHz

Max. RF Output Power ..... : -4.08dBm (Conducted)

Modulation ..... : GFSK , π/4 DQPSK

Data Rate ..... : 1Mbps, 2Mbps

Quantity of Channels ..... : 79

Channel Separation..... : 1MHz

Type of Antenna ..... : PCB Printed Antenna

Antenna Gain ..... : 0dBi

Highest Oscillation..... : 24MHz

3.3 Technical Characteristics of BLE

Bluetooth Version ..... : V4.2(BLE mode)

Frequency Range ..... : 2402-2480MHz

RF Output Power..... : -2.02dBm (Conducted)

Modulation ..... : GFSK

Data Rate..... : 1Mbps

Quantity of Channels ..... : 40

Channel Separation..... : 2MHz

Type of Antenna ..... : PCB Printed Antenna

Antenna Gain ..... : 0dBi

Lowest Oscillation..... : 24MHz

3.4 Disclaimer

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.

3.5 Standards Applicable for Testing

The tests were performed according to following standards:

Part 1, Subpart 2, Section 2.1091	Radiofrequency radiation exposure evaluation: mobile devices.
KDB 447498 D01 v06	Mobile and portable devices RF Exposure procedures and equipment authorization policies, October 23, 2015.

4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

4.1 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(a) Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Times | E |^2, | H |^2 or S (minutes)
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
1500-100000	/	/	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Times | E |^2, | H |^2 or S (minutes)
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
1500-100000	/	/	1	30

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

4.2 MPE Calculation Method

$S = (30*P*G) / (377*R^2)$

S = power density (in appropriate units, e.g., mw/cm^2)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

4.3 MPE Calculation Result

Prediction distance (mm)	Mode	Antenna Gain (dBi)	Numeric gain	Maximum Tune-up output power (dBm)	Maximum peak output power (mW)	PD (mW/cm2)	Limit (mW/cm2)
>200	BT	0	1	-4.08	0.391	0.0000778	1.0
>200	BLE	0	1	-2.02	0.628	0.0001249	1.0

Result: Pass

======End of Report======