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RF Exposure Evaluation Report

Report No.: CQASZ20210901517E-02
Applicant: SHENZHEN BIGGERFIVE TECHNOLOGY CO., LIMITED.
Address of Applicant: Room 1115, Haiyuan International Financial Center, No. 8, Fu 'an Avenue, Pinghu Street, Longgang District, Shenzhen
Equipment Under Test (EUT):
EUT Name: Wireless Headphones
Test Model No.: BH100
Model No.: BH100
Brand Name: BIGGERFIVE
FCC ID: 2A2Z2-BH100
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2021-09-06
Date of Test: 2021-09-06 to 2021-09-15
Date of Issue: 2021-10-08
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Rock Huang

(Rock Huang)

Approved By:

Jack ai

(Jack ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210901517E-02	Rev.01	Initial report	2021-10-08

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3 General Information

3.1 Client Information

Applicant:	SHENZHEN BIGGERFIVE TECHNOLOGY CO., LIMITED.
Address of Applicant:	Room 1115, Haiyuan International Financial Center, No. 8, Fu 'an Avenue, Pinghu Street, Longgang District, Shenzhen
Manufacturer:	SHENZHEN BIGGERFIVE TECHNOLOGY CO., LIMITED.
Address of Manufacturer:	Room 1115, Haiyuan International Financial Center, No. 8, Fu 'an Avenue, Pinghu Street, Longgang District, Shenzhen
Factory:	SHENZHEN BIGGERFIVE TECHNOLOGY CO., LIMITED.
Address of Factory:	Room 1115, Haiyuan International Financial Center, No. 8, Fu 'an Avenue, Pinghu Street, Longgang District, Shenzhen

3.2 General Description of EUT

Product Name:	Wireless Headphones
Model No.:	BH100
Test Model No	BH100
Trade Mark:	BIGGERFIVE
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Hardware Version:	V1.7
Software Version:	V3.0
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	Li-ion battery: DC 3.7V 600mAh, Charge by DC 5.0V

3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Test Software of EUT:	BK32xx RF Test - V1.8_en(Feb 26 2019)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

1) For BT

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.740	-0.5±1	0.5	1.122
Middle(2441MHz)	-0.010	0.0±1	1.0	1.259
Highest(2480MHz)	0.950	1.0±1	2.0	1.585
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.730	1.0±1	2.0	1.585
Middle(2441MHz)	1.370	1.5±1	2.5	1.778
Highest(2480MHz)	2.170	2.5±1	3.5	2.239
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.870	1.0±1	2.0	1.585
Middle(2441MHz)	1.490	1.5±1	2.5	1.778
Highest(2480MHz)	2.310	2.5±1	3.5	2.239

worst	8DPSK					
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	0.870	1.0±1	2.0	1.585	0.491	3.0
Middle (2441MHz)	1.490	1.5±1	2.5	1.778	0.556	
Highest (2480MHz)	2.310	2.5±1	3.5	2.239	0.705	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210901517E-01