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RF Exposure Evaluation Report

Report No.: CQASZ20210901496E-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: Fitness Tracker Watch
Model No.: VIGOR 2, VIGOR 2L, BF200, BF200L
Teat Model No.: VIGOR 2
Brand Name: BIGGERFIVE
FCC ID: 2A2Z2-VIGOR2
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2021-09-01
Date of Test: 2021-09-01 to 2021-09-09
Date of Issue: 2021-10-14
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
CQASZ20210901496E-02	Rev.01	Initial report	2021-10-14

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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:	Fitness Tracker Watch
Model No.:	VIGOR 2, VIGOR 2L, BF200, BF200L
Test Model No.:	VIGOR 2
Trade Mark:	BIGGERFIVE
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT5.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps, 2Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	RTL8762C_RFTTestTool_v1.0.1.2
Antenna Type:	PCB antenna
Antenna Gain:	-2.11dBi
EUT Power Supply:	lithium battery: DC3.7V, 90mAh, 0.333Wh, Charge by DC5.0V

Note:

All model: VIGOR 2, VIGOR 2L, BF200, BF200L

Only test the VIGOR 2 model, because the circuit design, layout, components used and internal wiring of the above models are the same, but the color and the length of the strap and strap appearance design are different.

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 BLE

Measurement Data

GFSK(1Mbps) mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-4.57	-4.5±1	-3.5	0.447
Middle(2440MHz)	-3.54	-3.5±1	-2.5	0.562
Highest(2480MHz)	-3.35	-3.0±1	-2.0	0.631
GFSK(2Mbps) mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-4.43	-4.5±1	-3.5	0.447
Middle(2440MHz)	-3.35	-3.5±1	-2.5	0.562
Highest(2480MHz)	-3.16	-3.0±1	-2.0	0.631

Worst case: GFSK(2Mbps)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-4.43	-4.5±1	-3.5	0.447	0.138	3.0
Middle (2440MHz)	-3.35	-3.5±1	-2.5	0.562	0.176	
Highest (2480MHz)	-3.16	-3.0±1	-2.0	0.631	0.199	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210901496E-01

--THE END--