

EMC-TRF-03 Rev 1.1 Report No.: GZCR230900096802

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FCC ID: 2ADAP-GRJWB65J

# RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2309000968HS

Applicant: GREE Electric Appliances, Inc. of Zhuhai

Address of Applicant: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

Manufacturer: GREE Electric Appliances, Inc. of Zhuhai

Address of Manufacturer: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

Factory: GREE Electric Appliances, Inc. of Zhuhai

Address of Factory: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China 519070

**Equipment Under Test (EUT):** 

EUT Name: Wifi+BLE module

Model No.: GRJWB65-J

Trade Mark: FGREE

Standard(s): 47 CFR Part 1.1310

KDB447498 D01 General RF Exposure Guidance v06

**Date of Receipt:** 2023-09-18

**Date of Evaluation:** 2023-09-25 to 2023-09-25

**Date of Issue:** 2023-09-26

Evaluation Result: Pass\*





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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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	R	evision Record	
Version	Report No.	Date	Remark
01	GZCR230900096802	2023-09-26	Original

Authorized for issue by:		
	Jim Li	
	Jim Li/Project Engineer	
	vius cui	
	Vico Cui/Reviewer	



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# 2 Evaluation Summary

Radio Spectrum Tec	hnical Requirement			
Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

#### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

#### 4.1 Details of E.U.T.

Power supply: DC 3.3V Cable(s): N/A

For 2.4GHz Wi-Fi

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to

2452MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM,

16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11;802.11n(HT40):7

Channel Spacing: 5MHz

Antenna Type: PCB Antenna

Antenna Gain: 1.5 dBi

Antenna Number: 1

For BLE

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 LE
Modulation Type: GFSK
Number of Channels: 40
Channel Spacing: 2MHz

Antenna Type: PCB Antenna

Antenna Gain: 1.5 dBi

Antenna Number: 1

Remark: The information in this section is provided by the applicant or manufacturer,

SGS is not liable to the accuracy, suitability, reliability or/and integrity of the

information.

#### 4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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### 4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

#### ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

### SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

### • FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

#### • ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

#### VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

#### • CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

#### 4.4 Deviation from Standards

None

#### 4.5 Abnormalities from Standard Conditions

None



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# 5 Technical Requirements Specification

### 5.1 General Description of Applied Standards

KDB447498 D01 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.

#### 5.2 RF Exposure Evaluation

#### 5.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Lim	its for Occupational	//Controlled Exposu	res					
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300	6 6 6				
(B) Limits for General Population/Uncontrolled Exposure								
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30				

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out}*G)/(4*P_i*R^2)$ 

Where

 $P_d$  = power density in mW/cm<sup>2</sup>

P<sub>out</sub> = output power to antenna in mW

G = gain of antenna in linear scale

 $P_i = 3.1416$ 

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

P<sub>d</sub> id the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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#### 5.2.2 Conclusion

Normal use condition for Distance between antenna and body:

≥ 20cm declared by applicant

Antenna Gai	n:	1.5	dBi			
For Bluetoot	h BLE			-		
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2402	1.412537545	0.01	1.00	0.00028	1	Complies
2440	1.412537545	0.53	1.13	0.00032	1	Complies
2480	1.412537545	-0.75	0.84	0.00024	1	Complies
For 2.4 GHz	Wi-Fi			•		
Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
11B				•	<u> </u>	
2412	1.412537545	17.58	57.28	0.01610	1	Complies
2442	1.412537545	18.28	67.30	0.01891	1	Complies
2462	1.412537545	18.2	66.07	0.01857	1	Complies
11G						
2412	1.412537545	19.43	87.70	0.02464	1	Complies
2442	1.412537545	20.21	104.95	0.02949	1	Complies
2462	1.412537545	19.07	80.72	0.02268	1	Complies
11N20				-		
2412	1.412537545	17.84	60.81	0.01709	1	Complies
2442	1.412537545	18.59	72.28	0.02031	1	Complies
2462	1.412537545	18.43	69.66	0.01958	1	Complies
11N40	•			•		
2422	1.412537545	18.12	64.86	0.01823	1	Complies
2442	1.412537545	18.68	73.79	0.02074	1	Complies
2452	1.412537545	17.67	58.48	0.01643	1	Complies
The Bluetoot	h and Wi-Fi ca	n be transmi	tted together	, the result is		
0.00032	/1+	0.02949	/1=	0.02981	<1	

So SAR report is not required.

Note: Refer to report No. G GZCR230900096801 for EUT test Max Conducted Peak Output Power value.



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#### **EUT Constructional Details (EUT Photos)** 6

Refer to External and Internal Photos for GZCR2309000968HS

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