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Report No.: GZEM190501307002

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TEST REPORT

Application No.: GZEM1905013070CR

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 module
Model No.: GRJW04-J1
Trade Mark: GREE

Standard(s): 47 CFR Part 1.1307, Part 2.1093, KDB 447498

Date of Receipt: 2019-05-24

Date of Test: 2019-06-06 to 2019-07-02

Date of Issue: 2019-07-05

Test Result: Pass*

Kuhe . Jian

Kobe Jian

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

检验检测专用章 编数检测专用章 suspection & Testing Services & Co., Ltd. nozhou Bland 1980 (2000 FEC Laborator).

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record							
Version Chapter Date Modifier Remark								
01		2019-07-05		Original				

Authorized for issue by:		
Tested By	Curry Wie	2019-06-06 to 2019-07-02
	Curry_Wu /Project Engineer	Date
Checked By	Riday Liu	2019-07-05
	Ricky_Liu /Reviewer	Date



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2 Test Summary

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
RF Exposure	47 CFR Part 2.1091,	47 CFR Part 2.1091,	47 CFR Part 2.1091,	Pass			



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4 General Information

4.1 Details of E.U.T.

Power Supply: DC 5V
Test Voltage: DC 5V
Antenna Gain 1.0 dBi

Antenna Type PCB antenna

Channel Spacing 5MHz

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

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

802.11n(HT40): 2422MHz to 2452MHz

Software for setting EUT

power:

UI_mptool.exe

Power level setting: 802.11b:39

802.11g:39

802.11n (HT20):39 802.11n (HT40):39

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	±5.5 x 10 ⁻⁸
2	Duty cycle	±0.57%
3	Occupied Bandwidth	±3%
4	RF Conducted power	±0.68dB
5	RF Power Density	±1.50dB
6	Conducted Spurious Emissions	±1.04dB
7	RF Radiated Power	±4.5dB (below 1GHz)
/	RF Radiated Power	±4.8dB (above 1GHz)
8	Dedicted Couriers Francisco Test	±4.5dB (30MHz-1GHz)
8	Radiated Spurious Emission Test	±4.8dB (1GHz-18GHz)
9	Temperature	±0.4℃
10	Humidity	±1.3%
11	Supply Voltages	±1.5%
12	Time	±3%

4.4 Test 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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4.5 Test Facility

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

● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

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.

● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

◆ 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, Jul 13, 2017.

● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18

6 Radio Spectrum Technical Requirement

6.1 RF Exposure

RF Exposure Compliance Requirement

1. Standard requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(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	1		F/300	6
1500-100000	-		5	6

(b) Limits for General Population / Uncontrolled Exposure

b) Limits for General Population / Officinitofied 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			1.0	30				

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



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2. MPE Calculation Method

 $E (V/m) = (30*P*G)^{0.5}/d$ Power Density: $Pd(W/m^2) = E^2/377$

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

 $Pd = (30*P*G)/(377*d^2)$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3. Calculated Result and Limit:

1)802.11b:

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.259	18.5	70.795	0.01773	1	Complies
2442	1.259	18.86	76.913	0.01926	1	Complies
2462	1.259	18.96	78.705	0.01971	1	Complies

(2) 802.11g:

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2412	1.259	19.61	91.411	0.02289	1	Complies
2442	1.259	19.84	96.383	0.02414	1	Complies
2462	1.259	19.31	85.310	0.02137	1	Complies

3)802.11n(HT20):

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 ²)	Test Result
2412	1.259	18.73	74.645	0.01869	1	Complies
2442	1.259	18.91	77.804	0.01949	1	Complies
2462	1.259	18.78	75.509	0.01891	1	Complies

(4)802.11n(HT40):

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2422	1.259	19.00	79.433	0.01989	1	Complies
2442	1.259	19.19	82.985	0.02078	1	Complies
2452	1.259	19.20	83.176	0.02083	1	Complies



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6.1.1 Conclusion

The device meets the maximum permissible exposure requirement.

7 Photographs

7.1 EUT Constructional Details

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM1905013070CR.

-- End of Report--



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