

EMC-TRF-03 Rev 1.1 Report No.: GZCR240500045803

> Page: 1 of 9

FCC ID: 2AQAGEF32-42A

# RF EXPOSURE EVALUATION REPORT

**Application No.:** GZCR2405000458HS

Applicant: Guangdong Paite Electrical Technology Co., Ltd.

**Address of Applicant:** No 2, South Shenghui Rd, Nantou, Zhongshan, Guangdong, China

Manufacturer: Guangdong Paite Electrical Technology Co., Ltd.

Address of Manufacturer: No 2, South Shenghui Rd, Nantou, Zhongshan, Guangdong, China

Guangdong Paite Electrical Technology Co., Ltd. Factory:

Address of Factory: No 2, South Shenghui Rd, Nantou, Zhongshan, Guangdong, China

**Product Name:** Electric fireplace

Model No.: EF32-42A. W100-13 .

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

Trade Mark: Ashley

KDB447498D01 General RF Exposure Guidance v06 Standard(s):

47 CFR Part 1.1310

2024-05-10 **Date of Receipt:** 

Date of Evaluation: 2024-05-28 to 2024-06-20

2024-06-25 Date of Issue:

**Evaluation Result:** Pass\*





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



EMC-TRF-03 Rev 1.1

Report No.: GZCR240500045803

Page: 2 of 9

Revision Record						
Version	Report No.	Date	Remark			
01	GZCR240500045803	2024-06-25	Original			

Authorized for issue by:			
	Suenzhon		
	Allen Zhou/Project Engineer		
	vius cui		
	Vico Cui/Reviewer	-	



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EMC-TRF-03 Rev 1.1

Report No.: GZCR240500045803

Page: 3 of 9

# **Evaluation Summary**

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 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.

#### **♣**Declaration of EUT Family Grouping:

Model No.: EF32-42A, W100-13

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name.

Therefore only one model EF32-42A was tested in this report.



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EMC-TRF-03 Rev 1.1

Report No.: GZCR240500045803

Page: 4 of 9

#### 3 **Contents**

			Page
1	Cov	er Page	1
2	Eval	luation Summary	3
3	Con	tents	4
4	Gen	eral Information	5
4	1.1	Details of E.U.T.	5
4	1.2	Evaluating Location	5
4	1.3	Facility	6
4	1.4	Deviation from Standards	6
4	1.5	Abnormalities from Standard Conditions	6
5	Tech	hnical Requirements Specification	7
5	5.1	General Description of Applied Standards	7
5	5.2	RF Exposure Evaluation	
	5.2.1	1 Limit & Test Method	7
	5.2.2	2 Conclusion	8
6	FUT	Constructional Details (FUT Photos)	9



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Report No.: GZCR240500045803 EMC-TRF-03 Rev 1.1

> Page: 5 of 9

### **General Information**

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

Power supply: AC 120V. 60Hz for heater

DC 3V with CR2025 button cell for IR remote control

Cable(s): AC mains cable: 2 wires 1.8m unshielded

Operation Frequency: 2402MHz to 2480MHz Modulation Type: GFSK, pi/4DQPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread Technology:

Frequency Hopping Spread Spectrum(FHSS)

-0.58 dBi Antenna Gain

Antenna Number

Antenna Type Onboard Antenna

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,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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Report No.: GZCR240500045803 EMC-TRF-03 Rev 1.1

> 6 of 9 Page:

### 4.3 Facility

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

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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FMC-TRF-03 Rev 1 1 Report No.: GZCR240500045803

7 of 9

# **Technical Requirements Specification**

### **General Description of Applied Standards**

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-q 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) Limits for Occupational/Controlled Exposures							
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6			
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure				
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	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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Report No.: GZCR240500045803 EMC-TRF-03 Rev 1.1

> 8 of 9 Page:

#### 5.2.2 Conclusion

Normal use condition for Distance between antenna and body:

20cm declared by applicant

Antenna Gain: -0.58 dBi

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	0.874983775	0.7	1.17	0.00020	1	Complies
2441	0.874983775	1.53	1.42	0.00025	1	Complies
2480	0.874983775	2.1	1.62	0.00028	1	Complies

So SAR report is not required.

Note: Refer to report No. GZCR240500045802 for EUT test Max Conducted Peak Output Power value.



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EMC-TRF-03 Rev 1.1

Report No.: GZCR240500045803

Page: 9 of 9

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

Refer to Appendix - External and Internal Photos for GZCR2405000458HS

- End of the Report -



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