



FCC RF EXPOSURE REPORT

Applicant	:	Globe Electric Company Inc.
Address of Applicant	:	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Manufacturer	:	Zhongshan Fengrun Smart HomeTechnology Co., Ltd
Address of Manufacturer	:	NO.6 HONGJI ROAD, WESTDISTRICT , ZHONGSHAN,GUANGDONG.
Equipment under Test	:	2.4G Remote Control
Model No.	:	GE27109TX
FCC ID	:	2AQUQGE27109TX
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE24121013-2E02
Issue Date	:	2024/12/25
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.
Address of Laboratory	:	Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE24121013-2E02		
Date of Receipt:	2024/12/11	Date of Test:	2024/12/11~2024/12/25

Prepared By:

Tiger Mo

Tiger Mo/Engineer

Approved By:



Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/12/25	

1. General Information

1.1. Description of equipment

EUT Name	: 2.4G Remote Control
Model Number	: GE27109TX
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 3V From CR2032 Button cell
Operation Frequency	: 2402MHz, 2426MHz, 2480MHz
Modulation	: FSK
Antenna	: PCB Antenna, Max peak gain 2.499dBi

1.2. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No.17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

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:

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

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance $\pm$ (dB)
SRD	Ant1	2402	-13.26	2
		2426	-13.88	2
		2480	-10.55	2

2402MHz PK Output Power=81.94dBuV/m@3m-95.2=-13.26dBm

2426MHz PK Output Power=81.32dBuV/m@3m-95.2=-13.88dBm

2480MHz PK Output Power=84.65dBuV/m@3m-95.2=-10.55dBm

Estimation Result

[2402MHz, -11.26 dBm, (0.07 mW) output power], $(0.07/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.02$

[2426MHz, -11.88 dBm, (0.06 mW) output power], $(0.06/5) \cdot [\sqrt{2.426(\text{GHz})}] = 0.02$

[2480MHz, -8.55 dBm, (0.14 mW) output power], $(0.14/5) \cdot [\sqrt{2.480(\text{GHz})}] = 0.04$

Worse case is as below: 2402MHz+2426MHz+2480MHz=0.02+0.02+0.04=0.08< 3.0 for 1-g SAR

Then SAR evaluation is not required.

END OF REPORT