

Report No.: DDT-R23031611-4E02

■ Issued Date: Apr. 20, 2023

RF EXPOSURE REPORT

FOR

Applicant	•	Globe Electric Company Inc.		
Address	•••	150 Oneida, Montreal, Quebec, Canada, H9R 1A8		
Equipment under Test	•	WIRELESS PUSH-BUTTON		
Model No.		GB149TX		
Trade Mark	••	Globe		
FCC ID	••	2AQUQGB149TX		
Manufacturer	•	Globe Electric Company Inc.		
Address	•••	150 Oneida, Montreal, Quebec, Canada, H9R 1A8		

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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Test Report Declare

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Manufacturer		Globe Electric Company Inc.		
Address	1	150 Oneida, Montreal, Quebec, Canada, H9R 1A8		

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan 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 Dongguan 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-R23031611-4E02		
Date of Receipt:	Mar. 16, 2023	Date of Test:	Mar. 16, 2023 ~ Apr. 20, 2023

Prepared By:

Tiger Mo/Engineer

Tiger Mo

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 Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
	Initial issue ®	Apr. 20, 2023	3
	201	57	71

1. General Information

1.1. Description of equipment

EUT Name	:	WIRELESS PUSH-BUTTON	
Model Number	:	GB149TX	
EUT Function Description	:	Please reference user manual of this device	
Power Supply	:	DC 3V From CR2032	
Operation Frequency	:	315 MHz	
Modulation	:	ООК	
Antenna Gain	:	Spring antenna, maximum PK gain: 0 dBi	
Sample Number		S23031611-08 for conductive S23031611-09 for radiation	

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,

Guangdong Province, 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, G-20118

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Strength (E) Strength (H)		Averaging Time $ 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	
1500-100,000			1.0	30	

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

2.2. Calculation method

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: $S(mW/cm^2) = \frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

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

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

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

2.3. Estimation result

Mode	PK Output power (dBm)	Output power (mW)	tune up power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm²)	MPE Limit (mW/cm²)
SRD	-13.15	0.048	-13	0	1	0.00010	0.2

Note: The estimation distance is 20 cm.

PK Output Power=82.05dBuV/m@3m-95.2=-13.15dBm

Please refer to the test report "DDT-R23031611-4E01"

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT