

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2101282

RF Exposure Evaluation Report

Applicant: PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.

Address of Applicant: NO#10, Luyi 2 Road, Keyuancheng, Tangxia Town,

DONGGUAN CITY, GUANGDONG PROVINCE CHINA

523718

Equipment Under Test (EUT)

Product Name: CAR ALARM

Model No.: 4180068-1

FCC ID: TBQRX03-SS2W-1

Applicable standards: FCC CFR Title 47 Part 2 Subpart J Section 2.1091

Date of sample receipt: 06 Jul., 2021

Date of Test: 07 Jul., to 23 Aug., 2021

Date of report issue: 23 Aug., 2021

Test Result: PASS*

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.





Version

Version No.	Date	Description
00	23 Aug., 2021	Original

Date: 23 Aug., 2021

Tested by:

Test Engineer

Reviewed by:

Project Engineer **Date:** 23 Aug., 2021

Project No.: JYTSZE2107018





3 Contents

			Page
1	CO	VER PAGE	1
2	VEI	RSION	2
3	CO	NTENTS	3
4		NERAL INFORMATION	_
-			
	4.1	CLIENT INFORMATION	4
	4.2	GENERAL DESCRIPTION OF E.U.T.	4
	4.3	OPERATING MODES	4
	4.4	LABORATORY FACILITY	4
	4.5	LABORATORY LOCATION	
5	TE	CHNICAL REQUIREMENTS SPECIFICATION IN FCC CFR TITLE 47 PART 2.1091	5
	5.1	LIMITS	5
	5.2	TEST PROCEDURE	5
	5.3	RESULT	6
	5.4	CONCLUSION	



4 General Information

4.1 Client Information

Applicant:	PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.	
Address:	NO#10, Luyi 2 Road, Keyuancheng, Tangxia Town, DONGGUAN CITY, GUANGDONG PROVINCE CHINA 523718	
Manufacturer/Factory:	DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.	
Address:	NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE	

4.2 General Description of E.U.T.

Product Name:	CAR ALARM
Model No.:	4180068-1
Operation Frequency:	905 MHz~925MHz
Modulation technology:	FHSS
Antenna Type:	Helix antenna
Antenna gain:	0 dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Operating Modes

Operating mode	Detail description
Maximum power transmission	Keep the EUT in continuously transmitting in Maximum power
mode	transmission mode

4.4 Additions to, deviations, or exclusions from the method

No

4.5 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

4.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

JianYan Testing Group Shenzhen Co., Ltd.

No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5 Technical Requirements Specification in FCC CFR Title 47 Part 2.1091

5.1 Limits

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 1.1307(b)

Frequency range	Electric field strength	Magnetic field strength	Power density (mW/cm ²)	Averaging time			
(MHz)	(V/m)	(A/m)	,	(minutes)			
(A) Limits for Occupational/Controlled Exposures							
0.3–3.0	*(100)	6					
3.0–30	1842/f	4.89/f	*(900/f ²)	6			
30–300	61.4	0.163	1.0	6			
300–1500			f/300	6			
1500-100,000			5	6			
(B) Limits for General Population/Uncontrolled Exposure							
0.3–1.34	614	1.63	*(100)	30			
1.34–30	824/f	2.19/f	*(180/f ²)	30			
30–300	27.5	0.073	0.2	30			
300–1500			f/1500	30			
1500–100,000			1.0	30			

5.2 Test Procedure

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Project No.: JYTSZE2107018





5.3 Result

Frequency (MHz)	Maximum Output power (dBm)	Maximum Output power (mW)	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm²)	Limits for General Population/ Uncontrolled Exposure (mW/cm²)
Lora							
905.4	18.80	75.86	0	1.0	20.00	0.0151	0.604

Note: Just the worst case mode was shown in report.

5.4 Conclusion

The device is exempt from the RF exposure evaluation.

-----End of report-----

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Project No.: JYTSZE2107018