# FCC MPE TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.

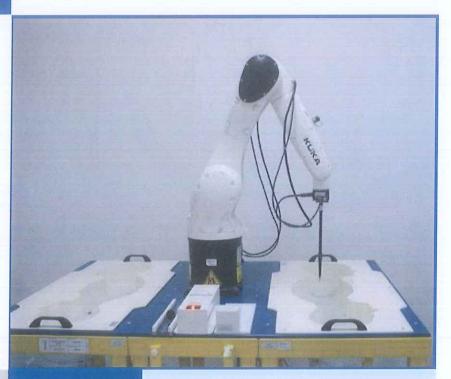


FOR

# SensorSafe Chest Clip

**ISSUED TO** Seibert Williams Glass, LLC

458 West Main St. Batavia, OH 45103 United States



Tested by: Toughiyoro Zong Liyao (Engineer)

Date Oct. 27,201

Approved by: Wei Yanguan

(Chief Engineer)

Date Oct. 27. zuj

Report No.: BL-SZ1780179-701

EUT Name: SensorSafe Chest Clip

Model Name: SOSR2

SensorSafe

Brand Name: FCC ID:

2ABS2-SOSR2

Test Standard:

47CFR 2.1093

Test Conclusion:

Pass

Test Date:

Aug. 17, 2017 ~ Aug. 25, 2017

Date of Issue: Oct. 27, 2017

NOTE: This test report of test results only related to testing samples, which can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. BALUN Laboratory. Any objections should be raised within thirty days from the date of issue. To validate the report, please contact us.



## **Revision History**

Version Issue Date Revisions Content

<u>Rev. 01</u> <u>Sep. 04, 2017</u> <u>Initial Issue</u>

Rev. 02 Oct. 27, 2017 Updated the description of section 4.1 on page 7.

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# 1 GENERAL INFORMATION

# 1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.	
Block B, 1st FL, Baisha Science and Technology Park, Sh		
Address	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.	
	China.	
Phone Number +86 755 6685 0100		
Fax Number	+86 755 6182 4271	

# 1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.		
	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi		
Address	Road, Nanshan District, Shenzhen, Guangdong Province, P. R.		
	China.		
	The laboratory has been listed by Industry Canada to perform		
	electromagnetic emission measurements. The recognition numbers		
	of test site are 11524A-1.		
	The laboratory is a testing organizatin accredited by FCC as a		
Approditation	accredited testing laboratory. The designation number is CN1196.		
Accreditation	The laboratory is a testing organization accredited by American		
Certificate	Association for Laboratory Accreditation (A2LA) according to		
	ISO/IEC 17025.The accreditation certificate is 4344.01.		
	The laboratory is a testing organization accredited by China National		
	Accreditation Service for Conformity Assessment (CNAS) according		
	to ISO/IEC 17025. The accreditation certificate number is L6791.		
	All measurement facilities used to collect the measurement data are		
Description	located at Block B, FL 1, Baisha Science and Technology Park,		
Description	Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,		
	P. R. China 518055		

# 1.3 Test Environment Condition

Ambient Temperature	21 to 23 °C
Ambient Relative Humidity	40 to 50%
Ambient Pressure	100 to 102 KPa



#### 1.4 Announce

- (1) The test report reference to the report template version v2.0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



# **2 PRODUCT INFORMATION**

# 2.1 Applicant Information

Applicant	Seibert Williams Glass, LLC	
Address 458 West Main St. Batavia, OH 45103 United States		

## 2.2 Manufacturer Information

	Manufacturer Seibert Williams Glass, LLC	
Address 458 West Main St. Batavia, OH 45103 United States		458 West Main St. Batavia, OH 45103 United States

# 2.3 Factory Information

Factory	N/A
Address	N/A

# 2.4 General Description for Equipment under Test (EUT)

EUT Name	SensorSafe Chest Clip	
Model Name Under	SOSR2	
Test	3031\2	
Series Model Name	N/A	
Description of Model	N/A	
Name Differentiation	IVA	
Hardware Version	1.0	
Software Version	2.0	
Dimensions (Approx)	N/A	
Weight (Approx)	N/A	
Network and Wireless	Bluetooth 4.0 Low Energy (BLE),	
connectivity		



# 2.5 Ancillary Equipment

	Battery		
	Brand Name	Panasonic	
	Model No.	BR2032	
Ancillary Equipment 1	Serial No.	N/A	
	Capacitance	190 mAh	
	Rated Voltage	3 V	
	Limit Charge Voltage	3 V	

## 2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	Bluetooth	
Frequency Range	2400MHz ~ 2483.5MHz	
Antenna Type PCB Antenna		
Exposure Category	xposure Category General Population/Uncontrolled Exposure	
EUT Stage Portable Device		



#### 3 STANDARD INFORMATION

#### 3.1 Test Standard

No.	Identity	Document Title	
1	47 CFR Part	Radiofrequency radiation exposure evaluation protable devices	
!	2.1093		
2	FCC KDB 447498	Mobile and Portable Device RF Exposure Procedures and	
	D01 v06	Equipment Authorization Policies	
3	47 CFR Part	Radiofrequency radiation exposure limits	
3	1.1310		

#### **4 RF EXPOSURE EVALUTION**

#### 4.1 §2.1093 Portable Devices

CFR Title 47 §2.1093(b)

(b) For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is less than or equal to **5 mm** of the body of the user.

#### 4.2 KDB 447498 D01 General RF Exposure Guidance v06 Limit

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

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:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

#### Where

- f (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

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



## **5 ASSESSMENT RESULT**

# 5.1 Output Power

BLUETOOTH				
Mode	GFSK(BLE)			
Wode	Low Channel	Middle Channel	High Channel	
EIRP (dBm)	-0.21	0.22	0.54	

Note: This report listed the maximal case EIRP power value, please refer to RF test report for more details.

#### Turn-up power

Mode	Range (dBm)
Bluetooth	(-0.70)-1.10

#### 5.2 Conclusion

FCC exclusion condition= [1.3 mW/5 mm]  $\cdot$  [  $\sqrt{2.48}$  GHz] = 0.41 < 3.0 RF Exposure Evaluation Result: **Pass** 

--END OF REPORT--