RF EXPOSURE REPORT

Report No.:18020307-FCC-H1
Supersede Report No.: N/A

Applicant	Shenzhen Shuaixian Electronic Equipment Co., Ltd.
Product Name	Bluetooth Earphones
Main Model	SX-803A
Test Standard	FCC 2.1093
Test Date	N/A
Issue Date	March 30, 2018
Test Result	☑ **Pass** ☐ **Fail**
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Amos. Xia	Deon Dai	
Amos Xia **Test Engineer**	**Deon Dai** **Engineer Reviewer**	

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Test result presented in this test report is applicable to the tested sample only

Issued by:
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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.

In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
18020307-FCC-H1	NONE	Original	March 30, 2018

2 Customer information

Applicant Name	Shenzhen Shuaixian Electronic Equipment Co., Ltd.
Applicant Add	No.10 Lane 3, Longxing Rd., Dakang Long Village, Henggang Town,Longgang Dist., Shenzhen, China
Manufacturer	Shenzhen Shuaixian Electronic Equipment Co., Ltd.
Manufacturer Add	No.10 Lane 3, Longxing Rd., Dakang Long Village, Henggang Town,Longgang Dist., Shenzhen, China

3 Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China
FCC Test Site No.	694825
IC Test Site No.	4842B-1
Test Software	EZ_EMC

4 Equipment under Test (EUT) Information

Description of EUT:	Bluetooth Earphones
Main Model:	SX-803A
Serial Model:	SX-803,SX-803B,SX-803C
Date EUT received:	March 19,2018
Antenna Gain:	Bluetooth: 0 dBi
Type of Modulation:	Bluetooth: GFSK, π/4DQPSK, 8DPSK
RF Operating Frequency (ies):	Bluetooth: 2402-2480 MHz
Number of Channels:	Bluetooth: 79CH
Port:	USB Port
Input Power:	DC:5V Battery: 16mAh 0.592Wh 3.7V
Trade Name :	N/A
FCC ID:	UHB-SX-803

5 FCC §2.1093 - RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this 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.

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*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[16] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[17]
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Test Result:

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)
Output power	BT	Low	2402	1.369	0.5±1
		Mid	2441	1.030	
		High	2480	1.147	

One antennas are available for the EUT (BT antenna).

BT Mode:

The maximum average output power(turn-up power) in low channel of Bluetooth is 1.5 dBm=1.41mW

The calculation results= 1.41/5*√ 2.402= 0.437< 3

The maximum average output power(turn-up power) in middle channel of Bluetooth is 1.5 dBm=1.41mW

The calculation results= 1.41/5*√ 2.441= 0.441< 3

The maximum average output power(turn-up power) in high channel of Bluetooth is 1.5 dBm=1.41mW

The calculation results= 1.41/5*√ 2.480= 0.444< 3

Test Result: Pass

6 DECLARATION OF SIMILARITY

To: SIEMIC INC.

Declaration letter

Dear Sir,

For our business issue and marketing requirement, we would like to list different models numbers on the FCC certificates and reports, as following:

Model No.: Model name SX-803A
Model name SX-803 SX-803B SX-803C

The difference between the Model name SX-803A and Model name SX-803 SX-803B SX-803C are as follows:

The Serial Model Name Model name SX-803 SX-803B SX-803C Different model name and shape only, like all the other.

Thank you!

FCC ID: UHB-SX-803

Signature: Ye jie bin

Printed name/title: Ye Jie Bin/General Manager

Contact information /Address: Shenzhen Shuaixian Electronic Equipment Co., Ltd.
No.10 Lane 3, Longxing Rd., Dakang Long Village,Henggang Town, Longgang Dist., Shenzhen,518116 China