RF EXPOSURE REPORT



Report No.: 17021567-FCC-H1 Supersede Report No.: N/A

Applicant Shenzhen Shuaixian Electronic Equipment Co., Ltd.						
Product Name	Bluetooth Earpl	Bluetooth Earphones				
Model No.	SX-808					
Serial Model	N/A					
Test Standard	FCC 2.1093					
Test Date	November 20 to	November 20 to November 23, 2017				
Issue Date	November 23, 2	November 23, 2017				
Test Result	🖂 Pass 🗌 Fail					
Equipment complied	d with the specific	cation 🛛				
Equipment did not o	comply with the s	pecification				
Trety.	lu	Deon Dai				
Trety Lu Test Engineer		Deon Dai Engineer Reviewer				
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only						

Issued by:

SIEMIC (Nanjing-China) Laboratories

2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China

Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email: China@siemic.com.cn



Test Report No. 17021567-FCC-H1

2 of 7

Page

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.

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				

Accreditations for Conformity Assessment



Test Report No.	17021567-FCC-H1
Page	3 of 7

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Test Report No.	17021567-FCC-H1
Page	4 of 7

CONTENTS

1	REPORT REVISION HISTORY	5
2	CUSTOMER INFORMATION	5
3	TEST SITE INFORMATION	5
4	EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5	FCC §2.1093 - RADIOFREQUENCY RADIATION EXPOSURE EVALUATION: PORTABLE DEVICES.	7
5.1 F	F EXPOSURE	7



1 <u>Report Revision History</u>

Report No.	Report Version	Description	Issue Date
17021567-FCC-H1	NONE	Original	November 23, 2017

2 <u>Customer information</u>

Applicant Name	henzhen 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		



Test Report No.	17021567-FCC-H1
Page	6 of 7

Equipment under Test (EUT) Information 4 Description of EUT: **Bluetooth Earphones** SX-808 Main Model: Serial Model: N/A Date EUT received: November 20, 2017 Test Date(s): November 20 to November 23, 2017 Output power 7.345dBm Antenna Gain: Bluetooth: 2dBi Type of Modulation: Bluetooth: GFSK, π /4-DQPSK, 8DPSK RF Operating Frequency (ies): Bluetooth: 2402-2480 MHz Number of Channels: Bluetooth: 79CH Port: Power Port Input Power: DC5V Power: Battery: 3.7V 500mAh 1.85Wh Trade Name : N/A FCC ID: **UHB-SX-808**



FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices. 5

5.1 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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] . $[\sqrt{f_{(GHz)}}] \le 3.0$ 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 calculation¹⁷
- 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.

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.

result = $P\sqrt{F}/D$ P= Maximum turn-up power in mW F= Channel frequency in GHz D= Minimum test separation distance in mm

Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
	Low	2402	6.215	5.5±1	6.5	4.467	1.38	3
GFSK	Mid	2441	7.345	6.5±1	7.5	5.623	1.76	3
	High	2480	7.128	6.5±1	7.5	5.623	1.77	3
	Low	2402	4.562	3.6±1	4.6	2.884	0.89	3
π/4-DQPSK	Mid	2441	6.616	6.0±1	7.0	5.012	1.57	3
	High	2480	6.515	5.6±1	6.6	4.571	1.44	3
8DPSK	Low	2402	4.866	4.0±1	5.0	3.162	0.98	3
	Mid	2441	6.753	6.0±1	7.0	5.012	1.57	3
	High	2480	6.647	6.0±1	7.0	5.012	1.58	3

BT Mode:

Result: Pass