



Report No.: SZEM190701674004

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# **SAR Evaluation Report**

**Application No.:** SZEM1907016740CR **Applicant:** Shure Incorporated

**Address of Applicant:** 5800 W. Touhy Ave, Niles, Illinois, 60714-4608 United States

Manufacturer: Shure Incorporated

Address of Manufacturer: 5800 W. Touhy Ave, Niles, Illinois, 60714-4608 United States

Factory: Innovation Sound Technology Co., Ltd.

Address of Factory: 3rd Floor & 5th Floor of Building 1th, Building 2nd to Building 6th, 1#Area,

Industrial Area of Huaide Cuihai, Fengtang Road, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province 518103, China

**Equipment Under Test (EUT):** 

**EUT Name:** Bluetooth Earphones

Model No.: RMCE-TW1

Trade mark: Shure

FCC ID: DD4-RMCE-TW1
Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

**Date of Receipt:** 2019-07-25

**Date of Test:** 2019-07-30 to 2019-08-20

**Date of Issue:** 2019-08-27

Test Result : PASS\*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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# 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-08-27		Original

Authorized for issue by:		
	1 kory Ulu	
	Harry Wu /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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## **General Information**

## 4.1 General Description of EUT

Power supply:	Earphone: DC3.7V Rechargeable Battery, Charge Case: DC3.7V Rechargeable Battery which can be charged by Type C port	
For BT:		
Bluetooth Version:	V5.0	
Operation Frequency:	2402MHz to 2480MHz	
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Number of Channels:	79	
Channel Spacing:	1MHz	
Antenna Type:	Integral Antenna	
Antenna Gain:	L:-4.32dBi, R:-2.73dBi	
For BLE:		
Bluetooth Version:	V5.0	
Operation Frequency:	2402MHz to 2480MHz	
Modulation Type:	GFSK	
Number of Channels:	40	
Channel Spacing:	2MHz	
Antenna Type:	Integral Antenna	
Antenna Gain:	L:-4.32dBi, R:-2.73dBi	



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## 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

## 4.3 Test Facility

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

## • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

### 4.4 Deviation from Standards

None.

### 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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## 5 SAR Evaluation

# 5.1 RF Exposure Compliance Requirement

## 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

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 Exclusion Threshold condition, listed below, is satisfied.

### 5.1.2 Limits

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)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  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<sup>17</sup>

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

## 5.1.3 EUT RF Exposure

For BT-L:

The Max. power (including tune-up tolerance) is 3.66 dBm on the middle channel 2.441 GHz (\*) 3.66 dBm logarithmic terms convert to numeric result is nearly 2.32 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max.Power of channel,including tune-up tolerance,} mW) * \sqrt{f(GHz)}}{(\text{min.test separation distance,} mm)}$$

General RF Exposure =  $(2.32 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.441 \text{ GHz}} = 0.72$  (1)

SAR requirement:

$$S = 3.0$$
 (2) (1) < (2)

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM190701674002



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### For BT-R:

The Max. power (including tune-up tolerance) is 3.53 dBm on the highest channel 2.48 GHz (\*) 3.53 dBm logarithmic terms convert to numeric result is nearly 2.25 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max. Power of channel, including tune-up tolerance, }mW)*\sqrt{f(GHz)}}{(\text{min. test separation distance,}mm)}$$
General RF Exposure =  $(2.25 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.71$  (1)
SAR requirement:
$$S = 3.0$$
 (2)
$$(1) < (2)$$
So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM190701674002

#### For BT-L-1M:

The Max. power (including tune-up tolerance) is -2.45 dBm on the lowest channel 2.402 GHz (\*) -2.45 dBm logarithmic terms convert to numeric result is nearly 0.57 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max.Power of channel, including tune-up tolerance, }mW)*\sqrt{f(GHz)}}{(\text{min.test separation distance,}mm)}$$
General RF Exposure =  $(0.57 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.18$  (1)
SAR requirement:
$$S = 3.0$$
 (2)
$$(1) < (2)$$
So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM190701674003

### For BT-L-2M:

The Max. power (including tune-up tolerance) is -2.80 dBm on the lowest channel 2.402 GHz (\*) -2.80 dBm logarithmic terms convert to numeric result is nearly 0.52 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max.Power of channel, including tune-up tolerance, } mW) * \sqrt{f (GHz)}}{(\text{min.test separation distance,mm})}$$
General RF Exposure =  $(0.52 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.16$  (1)
SAR requirement:
$$S = 3.0$$
 (2)
$$(1) < (2)$$

(\*) Max. power refer to Report No.:SZEM190701674003



So the SAR report is not required.

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#### For BT-R-1M:

The Max. power (including tune-up tolerance) is -1.13 dBm on the lowest channel 2.402 GHz (\*) -1.13 dBm logarithmic terms convert to numeric result is nearly 0.77 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max.Power of channel, including tune-up tolerance, } mW) * \sqrt{f (GHz)}}{(\text{min.test separation distance,} mm)}$$
General RF Exposure =  $(0.77 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.24$  (1)
SAR requirement:
$$S = 3.0$$
 (2)
$$(1) < (2)$$

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM190701674003

#### For BT-R-2M:

The Max. power (including tune-up tolerance) is -1.16 dBm on the lowest channel 2.402 GHz (\*) -1.16 dBm logarithmic terms convert to numeric result is nearly 0.77 mW According to the formula. calculate the test exclusion thresholds:

General RF Exposure = 
$$\frac{(\text{Max.Power of channel, including tune-up tolerance, } mW) * \sqrt{f (GHz)}}{(\text{min.test separation distance,mm})}$$
General RF Exposure =  $(0.77 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.24$  (1)
SAR requirement:
$$S = 3.0$$
 (2)
$$(1) < (2)$$

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM190701674003

- End of the Report -



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