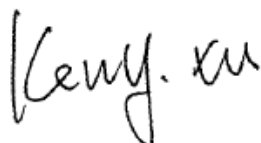


# SAR Evaluation Report

**Application No.:** SZEM1809008379CR  
**Applicant:** Creative Labs Pte. Ltd.  
**Address of Applicant:** 31 International Business Park, #03-01 Creative Resource, Singapore 609921  
**Manufacturer:** Creative Labs Pte. Ltd.  
**Address of Manufacturer:** 31 International Business Park, #03-01 Creative Resource, Singapore 609921  
**Equipment Under Test (EUT):**  
**EUT Name:** Creative SXFI Theater Headset  
**Model No.:** GH0380B  
**Trade mark:** CREATIVE  
**FCC ID:** 2AJIV-GH0380B  
**Standards:** 47 CFR Part 1.1307  
 47 CFR Part 2.1093  
 KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2018-09-19  
**Date of Test:** 2018-09-30 to 2019-04-15  
**Date of Issue:** 2019-04-19

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu  
 EMC Laboratory Manager



## 2 Version

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2019-04-19		Original

<b>Authorized for issue by:</b>			
		<i>Vincent Chen</i>	
		<b>Vincent Chen /Project Engineer</b>	
		<i>Eric Fu</i>	
		<b>Eric Fu /Reviewer</b>	





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

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## 4 General Information

### 4.1 General Description of EUT

Power supply:	Headset powered by Li-ion battery: 3.7V 1300mAh, Charged by DC 5V, 1A from Type-C port
Cable:	Type-C cable 200cm shielded Line in cable 159cm unshielded Microphone cable 17.5cm shielded
<b>For 2.4G</b>	
Operation Frequency	2403.35-2479.35MHz
Modulation Type	GFSK
Number of Channels	39
Channel Spacing	2MHz
Antenna Type	Chip Antenna
Antenna Gain	-1.18dBi



## 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.F





#### 4.4 Deviation from Standards

None.

#### 4.5 Abnormalities from Standard Conditions

None.

#### 4.6 Other Information Requested by the Customer

None.



## 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  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  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 Headset

The Max. power (including tune-up tolerance) is	3.29	dBm on the lowest channel	2.4034	GHz (*)
3.29 dBm logarithmic terms convert to numeric result is nearly 2.13 mW				
According to the formula. calculate the test exclusion thresholds:				
$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$				
<i>General RF Exposure = (2.13 mW / 5 mm) x <math>\sqrt{2.40335 \text{ GHz}} = 0.66</math></i>				
SAR requirement:				
$S = 3.0$				
(1) < (2)				
So the SAR report is not required.				
(*) Max. power refer to Report No.:No.:SZEM180900837903				

- End of the Report -

