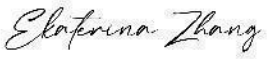
Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

RF Exposure Evaluation Report

Report Reference No..... :	MTEB25070007-H	
FCC ID..... :	2BQ4Q-GCSJ-001	
Compiled by (position+printed name+signature).. :	File administrators Ekaterina Zhang	
Supervised by (position+printed name+signature).. :	Test Engineer Sunny Deng	
Approved by (position+printed name+signature).. :	Manager Yvette Zhou	
Date of issue..... :	Jul.01,2025	

Representative Laboratory Name. :	**Shenzhen Most Technology Service Co., Ltd.**
Address..... :	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
Applicant's name..... :	Shenzhen Guancan Century Photoelectric Co., Ltd.
Address..... :	No.7 Lianmeng Road, Shilong Community, Shiyan Sub-district, Bao'an District, Shenzhen City，Guangdong, China.
Test specification/ Standard..... **:**	**47 CFR Part 1.1307** **47 CFR Part 2.1093**
TRF Originator..... :	Shenzhen Most Technology Service Co., Ltd.

Test item description.....:	Audio atmosphere light
Trade Mark..... :	N/A
Model/Type reference..... :	GCSJ-001
Listed Models ..... :	N/A
Modulation Type..... :	GFSK
Operation Frequency..... :	From 2402MHz to 2480MHz
Hardware Version.....	X00-4KBHWYXHC-V2
Software Version.....	V1.0
Rating..... :	DC 5V by USB Port/DC 3.7V by Battery
Result..... :	PASS

T E S T R E P O R T

Equipment under Test	:	Audio atmosphere light
Model /Type	:	GCSJ-001
Listed Models	:	N/A
Remark		N/A
Applicant	:	Shenzhen Guancan Century Photoelectric Co., Ltd.
Address	:	No.7 Lianmeng Road, Shilong Community, Shiyan Sub-district, Bao’an District, Shenzhen City，Guangdong, China.
Manufacturer	:	Shenzhen Guancan Century Photoelectric Co., Ltd.
Address	:	No.7 Lianmeng Road, Shilong Community, Shiyan Sub-district, Bao’an District, Shenzhen City，Guangdong, China.

Test Result:	**PASS**

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.07.01	Initial Issue	Ekaterina Zhang

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 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)] • [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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[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

2.1.3 EUT RF Exposure

Measurement Data

BLE

GFSK			
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power (dBm)
Lowest(2402MHz)	0.785	0.785±1	1.785
Middle(2440MHz)	0.134	0.134±1	1.134
Highest(2480MHz)	0.051	0.051±1	1.051

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold	SAR Test Exclusion
		(dBm)	(mW)			
Lowest(2402MHz)	0.785	1.785	1.51	0.30	3.0	Yes

.....THE END OF REPORT.....