



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

EMC-TRF-03 Rev 2.0

Report No.:GZCR260400063304

Page: 1 of 9

FCC ID: 2A7WU-TC206275000

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2604000633LM
Applicant: Shenzhen Daybetter OPTO-ELECTRONICS Co.,Ltd
Address of Applicant: Floor 4,Building 2, Antuoshan High-tech Park, Xinsha Road, Shajing, Baoan District, Shenzhen, China
Manufacturer: Shenzhen Daybetter OPTO-ELECTRONICS Co.,Ltd
Address of Manufacturer: Floor 4,Building 2, Antuoshan High-tech Park, Xinsha Road, Shajing, Baoan District, Shenzhen, China
Factory: Shenzhen Daybetter OPTO-ELECTRONICS Co.,Ltd
Address of Factory: Floor 4,Building 2, Antuoshan High-tech Park, Xinsha Road, Shajing, Baoan District, Shenzhen, China
Product Name: LED strip lights
Model No.: TC00A150000-KW03, TC00A150000-KS03, TC00A110000-KW03, TC00A110000-WW03, TC00A110000-KS03, TC206275000-KW03, TC206260000-KW03, TC206275000-KS03, TC206260000-WW03, TC206275000-WW03, TC206275000-WS03 ♣

♣ Please refer to section 2 of this report which indicates which item was actually evaluated and which were electrically identical.
Standard(s) : 47 CFR Part 1.1310
KDB 447498 D01 V06
Date of Receipt: 2026-04-01
Date of Evaluation: 2026-05-25
Date of Issue: 2026-07-14

Evaluation Result:

Pass*

* In the configuration evaluated, the EUT complied with the standards specified above.



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Calibration Laboratory

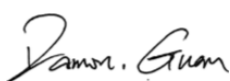
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663 t (86-20) 82155555 www.sgs.com.cn
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Revision Record			
Version	Report No.	Date	Remark
01	GZCR260400063304	2026-07-14	Original

Authorized for issue by:			
			
		Damon Guan/Project Engineer	
Approved By			
		Vico Cui/Reviewer	

2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB 447498 D01 V06	KDB 447498 D01 V06	47 CFR Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Model No.:

TC00A150000-KW03, TC00A150000-KS03, TC00A110000-KW03, TC00A110000-WW03, TC00A110000-KS03, TC206275000-KW03, TC206260000-KW03, TC206275000-KS03, TC206260000-WW03, TC206275000-WW03, TC206275000-WS03

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, only different on the LED output type is single or double.

Models No.	Power supply	Total Rating	LED Type	LED controller
TC00A150000-KW03, TC00A150000-KS03, TC00A110000-KW03, TC00A110000-KS03, TC00A110000-WW03	BI36G-240150-AdU	Max.36W	COB	Bluetooth Type, Sigle output
TC206275000-KW03 , TC206260000-KW03, TC206275000-KS03			LED 2835	Bluetooth Type, Sigle or double output
TC206260000-WW03, TC206275000-WW03, TC206275000-WS03			LED 2835	Bluetooth Type, Sigle or double output

Therefore, only one model **TC206275000-KW03** was evaluated in this report.

3 Contents

	Page
1 Cover Page	1
2 Evaluation Summary.....	3
3 Contents.....	4
4 General Information	5
4.1 Details of E.U.T.	5
4.2 Evaluating Location	5
4.3 Facility	6
4.4 Deviation from Standards.....	6
4.5 Abnormalities from Standard Conditions	6
5 Technical Requirements Specification	7
5.1 General Description of Applied Standards	7
5.2 RF Exposure Evaluation.....	7
5.2.1 Limit & Test Method	7
5.2.2 Conclusion	8
6 EUT Constructional Details (EUT Photos)	9



4 General Information

4.1 Details of E.U.T.

Power supply: AC 100-240V 50/60Hz for AC/DC adapter.
 AC/DC adapter: Model: BI36G-240150-AdU
 Input: AC 100-240V 50/60Hz 1.2A
 Output: DC 24V 1.5A
 Cable(s): About 1.8m x 2 wires unscreened DC output cable for AC/DC adapter.
 Please refer to section 4.1 of test report GZCR260400063302 for Bluetooth BLE.
 RF Character: Please refer to section 4.1 of test report GZCR260400063303 for Bluetooth Classic.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
 Guangdong, China 510663
 Tel: +86 20 82155555
 No tests were sub-contracted.



4.3 Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

5 Technical Requirements Specification

5.1 General Description of Applied Standards

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.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * P_i * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

5.2.2 Conclusion

For Bluetooth BLE

Antenna Gain: 3.34 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
2402	2.157744409	-1.83	0.66	0.00028	1.000	Complies
2440	2.157744409	-0.89	0.81	0.00035	1.000	Complies
2480	2.157744409	-0.46	0.90	0.00039	1.000	Complies

For Bluetooth Classic

Antenna Gain: 3.34 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
2402	2.157744409	-0.26	0.94	0.00040	1.000	Complies
2441	2.157744409	-0.2	0.95	0.00041	1.000	Complies
2480	2.157744409	-0.61	0.87	0.00037	1.000	Complies

The BT and BLE cannot be transmitted simultaneously, so further test is not required.

Note: Refer to report No. GZCR260400063302 and GZCR260400063303 for EUT test Max Conducted Peak Output Power value.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2604000633LM

- End of the Report -

