

RF Exposure Evaluation Report

Product : Smart Emoji Taillight
Trade mark : iGPSPORT
Model/Type reference : QW-LG09, QW-LG09L,
QW-LG09P, QW-LG09S,
QW-LG09C
Serial Number : N/A
Report Number : EED32R81148802
FCC ID : 2AU4M-QW-LG09
Date of Issue : Aug. 12, 2025
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Wuhan Qiwu Technology Co.,Ltd.
ROOM NO.1-5,3/F,CREATTVE WORKSHOP,NO.04 CREATIVE WORLD
PHASE III,NO.16 YEZHihu WEST ROAD,HONGSHAN DISTRICT,WUHAN
CITY,HUBEI PROVINCE.PRC(CHINA)

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2 General Information

2.1 Client Information

Applicant:	Wuhan Qiwu Technology Co.,Ltd.
Address of Applicant:	ROOM NO.1-5,3/F,CREATTVE WORKSHOP,NO.04 CREATIVE WORLD PHASE III,NO.16 YEZHihu WEST ROAD,HONGSHAN DISTIRCT,WUHAN CITY,HUBEI PROVINCE.PRC(CHINA)
Manufacturer:	Wuhan Qiwu Technology Co.,Ltd.
Address of Manufacturer:	ROOM NO.1-5,3/F,CREATTVE WORKSHOP,NO.04 CREATIVE WORLD PHASE III,NO.16 YEZHihu WEST ROAD,HONGSHAN DISTIRCT,WUHAN CITY,HUBEI PROVINCE.PRC(CHINA)
Factory:	Wuhan Qiwu Technology Co.,Ltd.
Address of Factory:	ROOM NO.1-5,3/F,CREATTVE WORKSHOP,NO.04 CREATIVE WORLD PHASE III,NO.16 YEZHihu WEST ROAD,HONGSHAN DISTIRCT,WUHAN CITY,HUBEI PROVINCE.PRC(CHINA)

2.2 General Description of EUT

Product Name:	Smart Emoji Taillight
Model No.(EUT):	QW-LG09, QW-LG09L, QW-LG09P, QW-LG09S, QW-LG09C
Test Model No.:	QW-LG09
Trade Mark:	iGPSPORT

2.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	BLE: GFSK	
Test Power Grade:	Default	
Test Software of EUT:	GRDirect Test Mode Tool.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	-2.03dBi	
Power Supply:	USB Port	DC 5V
	Battery:	DC 3.87V
Sample Received Date:	Jul. 09, 2025	
Sample tested Date:	Jul. 10, 2025 to Jul. 24, 2025	
Remark: Model No.: QW-LG09, QW-LG09L, QW-LG09P, QW-LG09S, QW-LG09C;Their electrical circuit design, layout, components used and internal wiring are identical, The outer decoration is also the same. Only the model QW-LG09 was tested.		

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:****BLE:**

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2402	0.5	4.35	-2.03	2.32	0.17	1.0399	2.788	0.3730	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $\text{EIRP(dBm)} = \text{Field strength of the fundamental signal(dBuV/m@3m)} - 95.23$;
- ④ $\text{ERP(mW)} = 10^{(\text{ERP (dBm)}/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32R81148801 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***