

RF Exposure Evaluation Report

Product : Remote Controller
Trade mark : 
Model/Type reference : 25212, 25111, 25112, 25113,
25114, 25115, 25116,
XXXXX (X=0-9)
Serial Number : N/A
Report Number : EED32R80427702
FCC ID : 2ACO2-GV-TX01
Date of Issue : Apr. 21, 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:

Golden Vessel Electronic & Lighting, Inc
Industrial District, ZhongHan Town ChaoHu City,
AnHui Province, China

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

Compiled by:



Keven Tan

Reviewed by:



Frazer Li

Approved by:



Aaron Ma

Date:

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1 Version

Version No.	Date	Description
00	Apr. 21, 2025	Original

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3 General Information

3.1 Client Information

Applicant:	Golden Vessel Electronic & Lighting, Inc
Address of Applicant:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China
Manufacturer:	Golden Vessel Electronic & Lighting, Inc
Address of Manufacturer:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China
Factory:	Golden Vessel Electronic & Lighting, Inc
Address of Factory:	Industrial District, ZhongHan Town ChaoHu City, AnHui Province, China

3.2 General Description of EUT

Product Name:	Remote Controller
Model No.:	25212, 25111, 25112, 25113, 25114, 25115, 25116, XXXXX (X=0-9)
Test Model No.:	25212
Trade mark:	

3.3 Product Specification subjective to this standard

Frequency Range:	2420MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	N/A
Antenna Type:	PCB antenna
Antenna Gain:	-1.97dBi
Power Supply:	Battery: DC 1.5V x2
Sample Received Date:	Apr. 10, 2025
Sample tested Date:	Apr. 10, 2025 to Apr. 14, 2025
Remark:	Model No.: 25212, 25111, 25112, 25113, 25114, 25115, 25116, XXXXX (X=0-9) Only the model 25212 was tested. The model is 25111, 25112, 25113, 25114, 25115, 25116, XXXXX (X=0-9), and the only difference between these model series is the model name.

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

Evaluation Results

Band/Mode	f (GHz)	Antenna Distance (mm)	RF output power (including tune-up tolerance)		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
2.4G	2.420	5	-13.34	0.046	0.046<3.0	Yes

Note:

The test data please refer to the report of EED32R80427701 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 ***