

# RF Exposure Evaluation Report

**Product** : remote control  
**Trade mark** : Fire tv  
**Model/Type reference** : RF565B  
**Serial Number** : N/A  
**Report Number** : EED32Q82113002  
**FCC ID** : 2A9T3-RF565B  
**Date of Issue** : Feb. 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:

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Date:

Feb. 12, 2025



Check No.: 1342191224

1 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Feb. 12, 2025 | Original    |
|             |               |             |
|             |               |             |

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### 3 General Information

#### 3.1 Client Information

|                          |                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| Applicant:               | Shenzhen C&D Electronics Co., Ltd.                                                                              |
| Address of Applicant:    | 9/F, Tower 9A, Baoneng Science & Technology Park, 1Qingxiang Road, Longhua District, Shenzhen, Guangdong, China |
| Manufacturer:            | Huizhou C&D Industry Co., Ltd.                                                                                  |
| Address of Manufacturer: | Tangziling Area, Liantangmian Village, Sanhe Street, Huiyang District, Huizhou City, P.R. China                 |
| Factory:                 | Huizhou C&D Industry Co., Ltd.                                                                                  |
| Address of Factory:      | Tangziling Area, Liantangmian Village, Sanhe Street, Huiyang District, Huizhou City, P.R. China                 |

#### 3.2 General Description of EUT

|               |                |
|---------------|----------------|
| Product Name: | remote control |
| Model No.:    | RF565B         |
| Trade mark:   | Fire tv        |

#### 3.3 Product Specification subjective to this standard

|                       |                          |       |
|-----------------------|--------------------------|-------|
| Frequency Range:      | 2402MHz~2480MHz          |       |
| Modulation Type:      | GFSK                     |       |
| Test Power Grade:     | Default                  |       |
| Test Software of EUT: | RTL8762x_RFTTestTool.exe |       |
| Antenna Type:         | PCB Antenna              |       |
| Antenna Gain:         | 2.13dBi                  |       |
| Power Supply:         | Battery:                 | DC 3V |
| Sample Received Date: | Jan. 13, 2025            |       |
| Sample tested Date:   | Jan. 13, 2025 to Jan. 24 |       |

### 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 Pth (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). Pth 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 ERP20cm 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

For Stand alone:

| Frequency<br>(MHz) | Estimation<br>distance<br>(cm) | Max. Conducted<br>Output power<br>(dBm) | Antenna<br>Gain<br>(dBi) | ERP<br>(dBm) | ERP<br>(mW) | Limit<br>(mW) | MPE<br>ratio | Result |
|--------------------|--------------------------------|-----------------------------------------|--------------------------|--------------|-------------|---------------|--------------|--------|
| 2402               | 0.5                            | -0.77                                   | 2.13                     | -0.79        | 0.8337      | 2.7877        | 0.2991       | Pass   |

**Note:**

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③  $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$ ;
- ④  $ERP(mW) = 10^{(ERP(dBm)/10)}$ ;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32Q82113001 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 \*\*\*