

RF Exposure Evaluation Report

Product : RF433 remote control
Trade mark : N/A
Model/Type reference : 8806
Serial Number : N/A
Report Number : EED32Q80011802
FCC ID : 2BEQ2HBRSB-001
Date of Issue : Feb. 29, 2024
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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2 General Information

2.1 Client Information

Applicant:	Huizhou RSP Technology Co.,LTD
Address of Applicant:	Building A13, Wang Yang Zhong Chuang Cheng City, Shuang Yang Road, Yangqiao Town, Boluo County, HuiZhou Guangdong, China 516100
Manufacturer:	Huizhou RSP Technology Co.,LTD
Address of Manufacturer:	Building A13, Wang Yang Zhong Chuang Cheng City, Shuang Yang Road, Yangqiao Town, Boluo County, HuiZhou Guangdong, China 516100
Factory:	Huizhou RSP Technology Co.,LTD
Address of Factory:	Building A13, Wang Yang Zhong Chuang Cheng City, Shuang Yang Road, Yangqiao Town, Boluo County, HuiZhou Guangdong, China 516100

2.2 General Description of EUT

Product Name:	RF433 remote control
Model No.(EUT):	8806
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	433.92MHz
Modulation Type:	ASK
Test Power Grade:	Default
Test Software of EUT:	N/A
Antenna Type:	PCB Antenna
Power Supply:	Battery DC 3.0V
Sample Received Date:	Jan. 04, 2024
Sample tested Date:	Jan. 04, 2024 to Jan. 16, 2024
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.	

2.4 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

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 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.

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:

For 433.92MHz:

Frequency (MHz)	Field strength of the fundamental signal (dBuV/m@3m)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
433.92	80.46	-16.92	0.0203	≤6.0809	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32Q80011801.
Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***