

RF Exposure Evaluation Report

Product : remote control
Trade mark : N/A
Model/Type reference : YM-YKQ01
Serial Number : N/A
Report Number : EED32P80375202
FCC ID : 2BBDM-LYDSTO001
Date of Issue : Jun. 06, 2023
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

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7-16-103 Modern Sino-Canada Science and Technology City, West of
Yewang Road, Shazui Street, Xiantao, Hubei Province

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2 Version

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3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF EUT	4
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
4.4 TEST LOCATION	5
4.5 DEVIATION FROM STANDARDS	5
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
5 SAR EVALUATION	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
5.1.1 Limits	6
5.1.2 Test Procedure	6
5.1.3 EUT RF Exposure Evaluation	7

4 General Information

4.1 Client Information

Applicant:	Hubei Yimu Electronic Technology Co., Ltd.
Address of Applicant:	7-16-103 Modern Sino-Canada Science and Technology City, West of Yewang Road, Shazui Street, Xiantao, Hubei Province
Manufacturer:	Hubei Yimu Electronic Technology Co., Ltd.
Address of Manufacturer:	7-16-103 Modern Sino-Canada Science and Technology City, West of Yewang Road, Shazui Street, Xiantao, Hubei Province
Factory:	Hubei Yimu Electronic Technology Co., Ltd.
Address of Factory:	7-16-103 Modern Sino-Canada Science and Technology City, West of Yewang Road, Shazui Street, Xiantao, Hubei Province

4.2 General Description of EUT

Product Name:	remote control
Model No.(EUT):	YM-YKQ01
Trade Mark:	N/A

4.3 Product Specification subjective to this standard

For 433.92MHz	
Operation Frequency:	433.92MHz
Modulation Type:	ASK
Antenna Type:	PCB antenna
Power Supply:	Battery DC 3.0V
maximum Field Strength (E) @3m:	52.81 dB μ V/m
	The maximum Field Strength data refer to the report EED32P80375201
Sample Received Date:	May 09, 2023
Sample tested Date:	May 09, 2023 to Jun. 01, 2023
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.	

4.4 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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 Test Procedure

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

5.1.3 EUT RF Exposure Evaluation**For Stand alone:****For 433.92MHz:**

Frequency (MHz)	maximum Field Strength (E) @3m (dBμV/m)	EIRP (dBm)	EIRP (mW)	Limit (mW)	Result
433.92	52.81	-42.49	0.0000564	6.081	PASS

The maximum Field Strength of the transmitter was 52.81 dBμV/m at 3m which equals 0.0000564mW , which is well below the exemption limit of 6.081mW.

Note:

- ① $EIRP (dBm) = E(dB\mu V/m) - 95.3$
- ② $EIRP = \text{conducted power} + \text{antenna gain}$
- ③ 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 ***