TEST REPORT

Product Name : Replacement Insignia Fire TV Remote
Model Number : XLFRMTFNA21-01
FCC ID : 2BAAZ-FNA2101

Prepared for	:	Shenzhen Xinlingfei Technology Co., Ltd.
Address	:	206/206, Building B, Zhonghui Building, Tianxin Industrial Zone, Guxing Community, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province
Prepared by	:	EMTEK (DONGGUAN) CO., LTD.
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Report Number	:	EDG2212300168E00502R
Date(s) of Tests	:	January 29, 2023 to February 21, 2023
Date of issue	:	February 21, 2023

Table of Contents

1. TEST RESULT CERTIFICATION

Applicant	:	Shenzhen Xinlingfei Technology Co., Ltd.
Address	:	206/206, Building B, Zhonghui Building, Tianxin Industrial Zone, Guxing Community, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province
Manufacturer	:	Shenzhen Xinlingfei Technology Co., Ltd.
Address	:	206/206, Building B, Zhonghui Building, Tianxin Industrial Zone, Guxing Community, Xixiang Street, Bao'an District, Shenzhen City, Guangdong Province
EUT	:	Replacement Insignia Fire TV Remote
Model Name	:	XLFRMTFNA21-01
Trademark	:	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
§ 15.247(i), § 2.1093	**PASS**

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : January 29, 2023 to February 21, 2023

Prepared by : Warren Deng

Warren Deng /Editor

Reviewer : Tim Dong

Tim Dong/ Supervisor

Approve & Authorized Signer :

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2212300168E00502R	/	Original Report

2. EUT Specification

Characteristics	Description
Product:	Replacement Insignia Fire TV Remote
Model Number:	XLFRMTFNA21-01
Sample:	1#
Device Type:	Bluetooth V5.0
Data Rate:	1Mbps for GFSK modulation
Modulation:	BLE: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 Channels
Transmit Power Max:	3.94 dBm(0.00248W)
Antenna Gain:	-6.7 dBi
Power supply:	DC 3V from battery
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:-6.7 dBi

Mode	Transmit Frequency(MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
1M	2402	GFSK	3.29	3±1	4	0.7786038	3
	2441	GFSK	3.94	3±1	4	0.7847384	3
	2480	GFSK	3.88	3±1	4	0.7911445	3

According to KDB 447498, no stand-alone required for BLE antenna, and no simultaneous SAR measurement is required.

*** End of Report ***