

# TEST REPORT

**Product Name** : REMOTE CONTROL  
**Model Number** : BN59-01329A, BN59-01266A, BN59-01266B,  
BN59-01330G, BN59-01330B, BN59-01327B,  
BN59-01312B, BN59-01312A, BN59-01312F,  
BN59-01312G  
**FCC ID** : 2BKI-K-XINGYE BLE1815

**Prepared for** : ANHUI XINGYE T.I.T (GROUP) CO., LTD  
**Address** : No.8 Yanhe Road, Qinlan Town, Tianchang, Anhui, China

**Prepared by** : EMTEK (DONGGUAN) CO., LTD.  
**Address** : -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology  
Research and Development Base, No.9, Xincheng Avenue,  
Songshanhu High-technology Industrial Development Zone,  
Dongguan, Guangdong, China

TEL: +86-0769-22807078  
FAX: +86-0769-22807079

**Report Number** : EDG2407250162E00402R  
**Date(s) of Tests** : Jul 25, 2024 to Aug 21, 2024  
**Date of issue** : Aug 22, 2024

## Table of Contents

1. TEST RESULT CERTIFICATION .....	3
2. EUT SPECIFICATION .....	5
3. TEST REQUIREMENT .....	6
4. MEASUREMENT RESULT .....	7



## 1. TEST RESULT CERTIFICATION

Applicant : ANHUI XINGYE T.I.T (GROUP) CO., LTD  
Address : No.8 Yanhe Road, Qinlan Town, Tianchang, Anhui, China  
Manufacturer : ANHUI XINGYE T.I.T (GROUP) CO., LTD  
Address : No.8 Yanhe Road, Qinlan Town, Tianchang, Anhui, China  
EUT : REMOTE CONTROL  
Model Name : BN59-01329A, BN59-01266A, BN59-01266B, BN59-01330G, BN59-01330B,  
BN59-01327B, BN59-01312B, BN59-01312A, BN59-01312F, BN59-01312G  
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 : Jul 25, 2024 to Aug 21, 2024

Prepared by :

*Warren Deng*

Warren Deng /Editor

*Tim Dong*

Reviewer :

Tim Dong /Supervisor



Approve & Authorized Signer :

Sam Lv / Manager

## Modified History

Version	Report No.	Revision Date	Summary
	EDG2407250162E00402R	/	Original Report



## 2. EUT Specification

Characteristics	Description
<b>Product:</b>	REMOTE CONTROL
<b>Model Number:</b>	BN59-01329A, BN59-01266A, BN59-01266B, BN59-01330G, BN59-01330B, BN59-01327B, BN59-01312B, BN59-01312A, BN59-01312F, BN59-01312G All products are identical except the model number, appearance and color. Here we selected BN59-01329A for all the test.
<b>Sample:</b>	1#
<b>Data Rate:</b>	1Mbps for GFSK modulation
<b>Modulation:</b>	GFSK
<b>Operating Frequency Range(s) :</b>	2402-2480MHz
<b>Number of Channels:</b>	40 channels
<b>Transmit Power Max:</b>	-2.64 dBm(0.000545 W)
<b>Antenna Gain:</b>	-6.7 dBi
<b>Power supply:</b>	DC 3V from battery
<b>Evaluation applied:</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

### 3. Test Requirement

#### SAR Evaluation

According to 447498 D01 V06, 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*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>24</sup> where

- $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>25</sup>
- 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  $\leq 50$  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 qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

## 4. Measurement Result

Antenna gain: -6.7 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK (1M)	-4.19	-4±1	-3	0.1554	3
2440	GFSK (1M)	-2.64	-2±1	-1	0.2482	3
2480	GFSK (1M)	-3.41	-3±1	-2	0.1987	3

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

\*\*\* End of Report \*\*\*