King Electrical Manufacturing Company

TEST REPORT

Model:
KRF-REPEATER

REPORT NUMBER
240800150THC-001

ISSUE DATE
Oct. 17, 2024

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DOCUMENT CONTROL NUMBER
GFT-OP-10h (28-Nov-2018)

RF Exposure
Evaluation Report

Applicant:	**King Electrical Manufacturing Company** **9131 10th Avenue South Seattle,WA 98108 USA**
Product:	**RF REPEATER**
Model No.:	**KRF-REPEATER**
FCC ID:	**2BH5BKRF-REPEATER**
Test Method/ Standard:	**47 CFR FCC 1.1310** **KDB 447498 D04**
Test By:	**Intertek Testing Services Taiwan Ltd.,** **Hsinchu Laboratory** **No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist,** **Hsinchu City 300075, Taiwan**

Testing Laboratory
0597

Rich Nien
Engineer

Zero Chen
Reviewer

Revision History

Report No.	Issue Date	Revision Summary
240800150THC-001	Oct. 17, 2024	Original report

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1. General Information

1.1 Identification of the EUT

Product:	RF REPEATER
Model No.:	KRF-REPEATER
Operating Frequency:	915.055 MHz
Channel Number:	Single channel
Rating:	DC 5V
Power Cord:	N/A
Sample receiving date:	2024/09/13
Sample condition:	Workable
Test Date(s):	2024/09/25 ~ 2024/09/30

1.2 Antenna description

Antenna Type: Spring Antenna
Connector Type: Fixed
Antenna Gain: 2.5 dB ± 2dB

1.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Description of Data Cable
Adapter	UGREEN	CD170	N/A	N/A

Peripherals name	Length	Shielded(Y/N)	Brand	Model No.
Type-C Cable	2.0m	Y	AINOPE	AP544-2M

2. RF Exposure Test Exemptions

1-mW Test

ExemptionPer § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

3. Test results

Mode	Frequency (MHz)	Antenna Gain (mW)	Output power (dBm)	Output power (mW)	Tune-up Power Tolerance (dB)	Max Tune-up Power (dBm)	Max Tune-up Power (mW)	Power density (mW/cm^2)	Limit (mW/cm^2)	Distance (cm)
FSK	915.055	2.82	5.22	3.33	2.00	7.22	5.27	0.003	0.61	20