

King Electrical Manufacturing Company

TEST REPORT

Model:

KRF-OUTDOOR-SENSOR

REPORT NUMBER

240800151THC-001

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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



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Revision History

Report No.	Issue Date	Revision Summary
240800151THC-001	Oct. 17, 2024	Original report

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1. General Information

1.1 Identification of the EUT

Product:	Outdoor Sensor
Model No.:	KRF-OUTDOOR-SENSOR
Operating Frequency:	915.055 MHz
Channel Number:	Single channel
Rating:	DC 3V
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
Battery*2	Panasonic	ALKALINE	N/A	N/A

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	-1.48	0.71	2.00	0.52	1.13	0.001	0.61	20