

TEST REPORT

Report Reference No..... : MTEB24100232-H

FCC ID..... : 2BLOJ-2405098

Compiled by
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Date of issue.....: Oct. 24,2024

Representative Laboratory Name. : Shenzhen Most Technology Service Co., Ltd.

Address.....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name..... : Ningbo Luckibuy Imp & Exp Co., Ltd

Address.....: 16F, Guangbo Panorama Building, No. 252 Tianda Alley, South
Business District, Ningbo ,China

Test specification/ Standard..... : 47 CFR Part 1.1307
47 CFR Part 2.1093

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : SOLAR NOCTURNAL PREDATOR LIGHTS

Trade Mark.....: N/A

Model/Type reference.....: 2405098

Listed Models: TSC-P26-2329-2 / P26-2329-2/2441874 /
TSC-P26-23PDQ / P26-23PDQ

Modulation Type.....: FSK

Operation Frequency.....: 5814.7MHz

Hardware version.....: TSC-P26-2329-2

Software version: /

Rating.....: DC 3.7V by Battery

Result.....: **PASS**

TEST REPORT

Equipment under Test : SOLAR NOCTURNAL PREDATOR LIGHTS

Model /Type : 2405098

Listed Models : TSC-P26-2329-2 / P26-2329-2/2441874 /
TSC-P26-23PDQ / P26-23PDQ

Remark : Only the product model name is different, the others are the same.

Applicant : Ningbo Luckibuy Imp & Exp Co., Ltd

Address : 16F, Guangbo Panorama Building, No. 252 Tianda Alley, South
Business District, Ningbo ,China

Manufacturer : Bestek (Vietnam) Technology Co.,Ltd

Address : Nguyen Ai Quoc Street, Nhon Trach III industrial Park - Phase
2.Hiep Phuoc Town, Nhon Trach District, Dong Nai Province,
Vietnam

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents**1. Revision History**

Revision	Issue Date	Revisions	Revised By
00	2024.10.24	Initial Issue	Alisa Luo

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

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:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where } f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

2.1.3 EUT RF Exposure

$$EIRP = PT * GT = (E \times D)^2 / 30$$

where:

PT = transmitter output power in watts,

GT = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, $10^{(dB\mu V/m)/20} / 10^6$,

D = measurement distance in meters (m)---3m,

$$So PT = (E \times D)^2 / 30 / GT$$

The worst case (refer to report MTEB24100232-R) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
5814.7	90.32	Peak
5814.7	91.67	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
5814.7	91.93	Peak
5814.7	89.85	Average

For 5814.7MHz wireless:

Field strength=91.93dBuV/m

Ant gain 2.3dBi;so Ant numeric gain=1.7

$$EIRP = PT * GT = (E \times D)^2 / 30 = (10^{(dB\mu V/m)/20} / 10^6 * 3)^2 / 30 = 0.00047$$

$$So PT = EIRP / GT = 0.00047W = 0.47mW$$

$$So 0.47mW / (5mm)^2 * \sqrt{5.8147GHz} = 0.22654$$

exclusion=0.22654 < 3.0 for 1-g SAR

So the SAR report is not required.