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## RF Exposure Evaluation Declaration

Report No.: S20201228825405

Report Version: V01

Issue Date: 03-25-2021

**Applicant:** Wyze Labs, Inc.  
**Address:** 5808 Lake Washington Blvd NE Ste 300 Kirkland WA  
98033  
  
**FCC ID:** 2AUIUWYZEP  
**Application Type:** Certification  
**Product:** Wyze PARB Bulb  
**Model No.:** WYZEPB4025  
**FCC Classification:** Digital Transmission System (DTS)  
**FCC Rule Part(s):** Part 15 Subpart C (15.247)  
**Test Procedure(s):** ANSI C63.10-2013, KDB 558074 D01v05r02  
**Test Date:** January 05~January 12, 2021

Reviewed By \_\_\_\_\_  
(Amos Xia)  
Senior Test Engineer

Approved By \_\_\_\_\_  
(Kerry Zhou)  
Engineer Manager

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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## Revision History

| Report No.      | Version | Description | Issue Date |
|-----------------|---------|-------------|------------|
| S20201228825405 | Rev. 01 | /           | 03-26-2021 |
|                 |         |             |            |

## 1. PRODUCT INFORMATION

### 1.1. Equipment Description

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:        | Wyze PARB Bulb                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Model Name:          | WYZEPB4025                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Additional Model:    | WYZEBRB40\WYZEBRB27\WYZEBRB30\WYZEBRB35\WYZEBRB50\WYZEBRB65\WYZEPB4020\WYZEPB4030\WYZEPB4040\WYZEPB4050\WYZEPB4060\WYZEPB2720\WYZEPB2725\WYZEPB2730\WYZEPB2740\WYZEPB2750\WYZEPB2760\WYZEPB3020\WYZEPB3025\WYZEPB3030\WYZEPB3040\WYZEPB3050\WYZEPB3060\WYZEPB3520\WYZEPB3525\WYZEPB3530\WYZEPB3540\WYZEPB3550\WYZEPB3560\WYZEPB5020\WYZEPB5025\WYZEPB5030\WYZEPB5040\WYZEPB5050\WYZEPB5060\WYZEPB6520\WYZEPB6525\WYZEPB6530\WYZEPB6540\WYZEPB6550\WYZEPB6560 |
| Input Voltage Range: | AC 120V/60Hz,9W                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Bluetooth Version:   | 5.0(1Mbps)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Antenna Type:        | PCB Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Antenna Gain:        | 1.5dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## 2. RF Exposure Evaluation

### 2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range<br>(MHz)                                  | Electric Field<br>Strength (V/m) | Magnetic Field<br>Strength (A/m) | Power Density<br>(mW/cm <sup>2</sup> ) | Average Time<br>(Minutes) |
|-----------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------------|---------------------------|
| (A) Limits for Occupational/ Control Exposures            |                                  |                                  |                                        |                           |
| 300-1500                                                  | --                               | --                               | f/300                                  | 6                         |
| 1500-100,000                                              | --                               | --                               | 5                                      | 6                         |
| (B) Limits for General Population/ Uncontrolled Exposures |                                  |                                  |                                        |                           |
| 300-1500                                                  | --                               | --                               | f/1500                                 | 6                         |
| 1500-100,000                                              | --                               | --                               | 1                                      | 30                        |

f= Frequency in MHz

Calculation Formula:  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$r$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.

## 2.2. Test Result of RF Exposure Evaluation

|           |                        |
|-----------|------------------------|
| Product   | WYZE PARB BULB         |
| Test Item | RF Exposure Evaluation |

| Test Mode | Frequency Band<br>(MHz) | Maximum PK<br>Output Power<br>(dBm) | Power Density at<br>R = 20 cm<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-----------|-------------------------|-------------------------------------|--------------------------------------------------------|--------------------------------|
| BLE       | 2402 ~ 2480             | 3.35                                | 0.00065                                                | 1                              |

Note: /

### CONCULISON:

The Max Power Density at R (20 cm) = 0.00065mW/cm<sup>2</sup> < 1mW/cm<sup>2</sup>.

So the EUT complies with the requirement.

\_\_\_\_\_ The End \_\_\_\_\_