

# FCC RF Exposure

EUT Description: Lighthouse Sound Machine & Night Light

Model No.: MEDO000LIW1817O16-A

FCC ID: 2BRZQ-MEDO000LIW

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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:

$$[(\text{max power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$

Where:

Result =  $P/D \cdot \sqrt{F}$

F = the RF channel transmit frequency in GHz

P = Maximum turn-up power in mW

D = Min. test separation distance in mm

## 2. Test Result of RF Exposure Evaluation

|           | Frequency (MHz) | Output power (dBm) | Tune Up Power (dBm) | Max Tune Up power (mW) | Min test separation distance (mm) | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|-----------|-----------------|--------------------|---------------------|------------------------|-----------------------------------|--------|-----------------------------|--------------------|
| BT        | 2480            | 0.46               | 0±1(1)              | 1.259                  | 5                                 | 0.397  | 3.0                         | Pass               |
| 2.4G WIFI | 2412            | 8.35               | 8±1(9)              | 7.943                  | 5                                 | 2.467  | 3.0                         | Pass               |

Note:

PK Output power = conducted power.

Conducted power see the test report HK2508194668-1E/2E, antenna gain = 1.68dBi

WIFI and Bluetooth cannot be transmitted at the same time.

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 2.467 which is  $\leq 3$ , RF Exposure testing is not required.

Note: Exclusion Thresholds Results =  $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Distance = 5mm