

# FCC RF Exposure

EUT Description: Wireless Microphone

Model No.: W-8303D, W-8303D82, W-8303D83, W-8303D7, W-8303D7S, W-8303D06, W-8303D03S, W-8303D90, W-8303D91

FCC ID: **2ALVW-W-8303D**

## 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:  $[(\text{max power of channel, including tune - up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1 - g SAR and  $\leq 7.5$  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 dBm/mW | Min test separation distance mm | Result | Limit (mW/cm <sup>2</sup> ) | SAR Test Exclusion |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|--------------------------|---------------------------------|--------|-----------------------------|--------------------|
| 210.3                                                                                                                       | 8.32               | 7.5 ± 1             | 8.5/7.079                | 5                               | 0.649  | 3.0                         | Pass               |
| Note:<br>PK Output power= conducted power.<br>Conducted power see the test report <b>HK2303140812-E</b> , antenna gain=3dBi |                    |                     |                          |                                 |        |                             |                    |

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 0.649 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