

# FCC RF Exposure

EUT Description: **2.4G Wireless Video Doorbell**

Model No.: **X8**

FCC ID: **2AUDZ-X8**

## 1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v01 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:

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

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

2469MHz:

$$\text{EIRP(dBm)} = 100.18(\text{dBuV/m}) - 95.2 = 4.98(\text{dBm})$$

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
2469	4.98	4±1(5)	3.16	5	0.99378	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2403040938-E**, antenna gain=2.07dBi

Per KDB 447498 D01, when the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.99378 which is  $\leq 3$ , SAR 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