

# FCC RF Exposure

EUT Description: USB Adaptor for car

Model No.: RM-KPL011, ezone-kpl011b, ezone-kpl015, ez-013-464, ezone-0013, ezone-kpl014, ezone-kpl022

FCC ID: 2A5YK-RM-KPL011

## 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:  

$$\left[ \frac{\text{max power of channel, including tune - up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 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

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
2480	4.55	4 ± 1	5/3.16	5	0.995	3.0	Pass
5240	7.76	7 ± 1	8/6.31	5	2.889	3.0	Pass

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2203291291-1E/2E**, antenna gain=1dBi

The device could not transmit simultaneously in 2.4G and 5G.

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 2.889 which is  $\leq 3$ , RF Exposure testing is not required.

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

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

Distance=5mm