# FCC ID: 2ARYQSOUND

According to KDB 447498 D01 General RF Exposure Guidance

At 100 MHz to 6 GHz and for test separation distances  $\leq$  50 nm, the SAR test exclusion threshold is determined according to the following

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

## 1. SAR test exclusion threshold Frequency : 2 480 脸 (min. separation distances = 0 mm)

Calculation value: 0.811 (mW) / 5 (mm) x  $\sqrt{2.480}$  = 0.183 So, Calculation value  $\leq 3.0$ 

#### Remark;

 $\begin{array}{l} \mathsf{P}_t = (\ \mathsf{E} \ x \ d \ )^2 \ / \ (\ 30 \ x \ g_t \ ) \\ \mathsf{P}_t = \text{transmitter output power in watts} \\ \mathsf{g}_t = \text{numeric gain of the transmitting antenna} \\ \mathsf{E} = \text{electric field strength in V/m} \\ \mathsf{d} = \text{measurement distance in meters (m)} \end{array}$ 

 $\begin{array}{l} {\mathsf{E}_{max}=94.34\ \mathrm{dB}\mu\mathrm{V}\ =0.052\ \mathrm{V/m,\ d=3\ m,\ g_{t}=1}}\\ {\mathsf{P}_{t}=(\ {\mathsf{E}\ x\ d\ )}^{2}\ /\ (\ {30\ x\ g_{t}\ )=(0.052\ x\ 3)^{2}\ /\ (\ {30\ x\ 1})=0.811\ (\mathrm{nW})} \end{array}$ 

-When the minimum test separation distance is < 5 m, a distance of 5 m is applied to determine SAR test exclusion.

## 2. Conclusion: No SAR is required.

## 3. Simultaneous transmission

DC MOTOR BLOCK: the ratio is 0.581 / 10 LED BLOCK: the ratio is 1.040 / 10 LIGHT TOUCH BLOCK: the ratio is 1.125 / 10 MASTER BLOCK: the ratio is 0.635 / 10 PROXIMITY SENSOR BLOCK: the ratio is 0.811 / 10 SOUND BLOCK: the ratio is 0.811 / 10

Confirm the sum result of individual MPEs ratio is  $\le 1.0$ ; (0.581 / 10) + (1.040 / 10) + (1.125 / 10) + (0.635 / 10) + (0.811 / 10) + (0.811 / 10) = 0.500  $\le 1.0$ 

So this device meets the KDB447498 D01 v06 section 7.2 requirement of "Simultaneous transmission MPE test exclusion"