

## FCC ID: 2AWDBHCS008FRF

## **RF Exposure Evaluation**

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1091, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f_{(GHz)}}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

 $f_{(GHz)}$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

 $EIRP = E_{meas} + 20log(d_{meas}) - 104.7$ 

EIRP: is the equivalent isotropically radiated power.in dBm

 $E_{Meas}$ : is the field strength of the emission at the measurement distance. in dBuV/m  $d_{Meas}$ : is the measurement distance. in m

## Here,

For 433.15MHz

Mode	Max Power (dBm)	Tune-up power	Max Power	Frequency(MHz)	Min. Distance	Calc. thresholds	limit
433.15MHz	-8.01	(dBm) -8±1	(mW) 0.20	433.15	(cm) 20	0.00003	1.0
400.10MHZ	-0.01	-0 - 1	0.20	400.10	20	0.00000	1.0

EIRP=87.08+20log(3)-104.7=-8.01dBm

So a SAR test is not required Remark: Antenna gain=-1.6dBi

