



FCC ID: 2BMJ5FYQ-001

## RF Exposure evaluation

According to 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

$f(\text{GHz})$  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

### For Worst case Mode: 433.92MHz

Field strength =61.83dBuV/m @3m

Ant gain 1.14 dBi; so Ant numeric gain=1.3

So  $pt = \{[10^{(61.83/20)} / 10^6 \times 3]^2 / 30 \times 1.3\} \times 1000 \text{ mW} = 0.0006 \text{ mW}$   
So  $(0.0006 \text{ mW} / 5 \text{ mm}) \times \sqrt{0.43392 \text{ GHz}} = 0.0001 < 3 \text{ for 1-g SAR}$

Then SAR evaluation is not required