

## MPE evaluation

FCC ID: PQA-TV1

The highest measured Peak power for each transmitter in this device:  
(Peak leads to worst case calculation compared to average):

For Bluetooth (2402-2480 MHz): 0.185 m W (-7.33 dBm), with 2 dBi antenna gain

The power density for each transmitter must be under the given limit .

For Bluetooth:  $P_{\text{radiated}} = P_{\text{conducted}} + G_{\text{linear}} = -7.33 \text{ dBm} + 2 \text{ dBi} = -5.33 \text{ dBm} = 0.29 \text{ mW}$

Power density  $S = (P_{\text{radiated}}) / (4\pi \times d^2) = 0.29 / 5026 = 0.00006 \text{ mW/cm}^2$

The calculated power density for this transmitter is far below the limit, so PASS.

Remark: This device would be also generally exempted for RF exposure, because the power lies below 60/f mW. For the 2.4 G band, the limit would be 24mW, and the actual powers is 0.29 mW.