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Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, Maryland 21046  
USA

### **SAR Exemption calculation for FCC ID: 2BNM5-BE200NG**

As per the Operational Description, the maximum duty cycle of the hand-held device is 2.2%.

KDB 447498 D01 General RF Exposure Guidance v06

#### **4.3.1. Standalone SAR test exclusion considerations**

- a) 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  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<sup>31</sup>
- The result is rounded to one decimal place for comparison

#### **Output Power (Conducted, Time-Averaged):**

Band	Peak Conducted Power	Duty Cycle	Time Averaged Conducted Power
2.4 GHz	0.998 W (29.99 dBm)	2.2%	0.0219 W (22 mW)
5 GHz	0.433 W (26.36 dBm)	2.2%	0.0095 W (9.5 mW)

#### **2.4 GHz calculation**

$(22 \text{ mW} / 5 \text{ mm}) \cdot \sqrt{2.405} = 6.8$  which is  $< 7.5$  for extremity SAR

#### **5 GHz calculation**

$(10 \text{ mW} / 5 \text{ mm}) \cdot \sqrt{5.15} = 4.5$  which is  $< 7.5$  for extremity SAR