

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	BUTTONS POP
Model Name	POPBTN10
FCC ID	2A83I-POPBTN10

### 2. EVALUATION METHOD

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:

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

### 3. CALCULATION

**The left earphone:**

**BR&EDR:**

$$P_t = 7.427 \text{ dBm} = 5.53 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (5.53 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 1.736 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

**BLE:**

$$P_t = -3.714 \text{ dBm} = 0.43 \text{ mW}$$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR} = (0.43 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480 \text{ GHz}}] = 0.135 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.



**The right earphone:**

**BR&EDR:**

$P_t=5.957\text{dBm}=3.94\text{mW}$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR}=(3.94\text{mW} / 5\text{mm}).[\sqrt{2.480\text{GHz}}]=1.237<3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

**BLE:**

$P_t=-1.381\text{dBm}=0.73\text{mW}$

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation  $\text{SAR}=(0.73\text{mW} / 5\text{mm}).[\sqrt{2.480\text{GHz}}]=0.229<3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

#### **4. CONCLUSION**

The SAR evaluation is not required.

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