

## RF EXPOSURE EVALUATION

### 1. PRODUCT INFORMATION

Product Description	MATE ONE
Model Name	KP-N10E
FCC ID	2A26HKP-N10E

### 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:

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

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

### 3. CALCULATION

BR/EDR:

$$P_t = 5.681 \text{ dBm} = 3.70 \text{ mW}$$

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  $\text{SAR} = (3.70 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.441 \text{ GHz}}] = 1.15 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE 1M:

$$P_t = 4.271 \text{ dBm} = 2.67 \text{ mW}$$

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  $\text{SAR} = (2.67 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.440 \text{ GHz}}] = 0.83 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

BLE 2M:

$$P_t = 4.310 \text{ dBm} = 2.70 \text{ mW}$$

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  $\text{SAR} = (2.70 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.440 \text{ GHz}}] = 0.84 < 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.