

# RF EXPOSURE EVALUATION

## 1. PRODUCT INFORMATION

Product Description	Wireless hands free car kit	8	·
Model Name	SBTFM1	No	PCC V
FCC ID	IKQSBTFM1	GC	-0

#### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

## 3. CALCULATION

P+=0.547dBm=1.13mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(1.13mW/5mm).[ $\sqrt{2.441}(\text{GHz})$ ]=0.35<3.0 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR.

§15.239

FM Pt= -49.63dBm=0.000011mW

The value of the Maximum output power  $P_t$  is referred to the test report of the CFR47 For frequencies below 100 MHz and test separation distances  $\leq$  50 mm, the power threshold determined by the following:

 $P_{max} = 0.5 * 474 * [1 + log(100/f)] mW$ , where f is MHz

For 88.1MHz, P<sub>max</sub>=250mW. Pt< P<sub>max</sub>.

For 107.9MHz,  $P = 3 \times 5 / 0.1079^{0.5} = 45.7 \text{ mW}$  $P_{max} = 45.7 \text{mW}$ . Pt<  $P_{max}$ .

Simultaneous transmission between Bluetooth and FM transmitter:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [  $\sqrt{f(GHz)/x}$ ] W/kg, for test separation distances  $\leq$  50 mm; where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR. SAR=(0.35+0.000011)/7.5=0.047W/kg<1.6W/kg

## 4. CONCLUSION

The SAR evaluation is not required.

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