RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Bluetooth FM Transmitter
Model Name	C73, MCC9-1035-BLK
FCC ID	2AHASC73

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 ≤ 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_t=-6.969dBm=0.20mW

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 SAR=(0.20mW /5mm) .[$\sqrt{2.480}$ (GHz)]=0.06<3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR.

§15.239

FM Pt= -53.14dBm=0.0000049mW

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_{max}=250mW. Pt< P_{max}.

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

 P_{max} =45.7mW. 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=(0.06+0. 0000049)/7.5=0.008W/kg<1.6W/kg

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4. CONCLUSION

The SAR evaluation is not required.