RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Wireless hands free car kit
Model Name	BTFM4PD, BTFM4, BTFM4-SP, BTFM4-SP1
FCC ID	IKQBTFM4B

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)] ·[√f(GHz)] ≤ 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

BT P_t= -7.772dBm=0.17mW

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=(0.17mW /5mm) .[√2.441(GHz)]= 0.05<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

FM Pt=-49.05dBm=0.0000124mW

The value of the Maximum output power P_t is referred to the test report of the CFR39

§15.239

The result for RF exposure evaluation SAR=(0.0000124mW /5mm) .[√0.0881(GHz)]= 0.000000736<3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Simultaneous transmission between Bluetooth and FM transmitter:
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[√f(GHz)/x] W/kg, for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.
SAR=(0.05+0.000000736)/7.5=0.007W/kg<1.6W/kg

4. CONCLUSION

The SAR evaluation is not required.