

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	BLUETOOTH FM TRANSMITTER			
Model Name	BH169A			
FCC ID	2AIL4-BH169A	The to make the	The delical Completion	® ##

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

According to the follow transmitter output power (Pt) formula:

BR/EDR

Pt=3.564dBm=2.26mW

The result for RF exposure evaluation SAR= $(3.31 \text{mW} /5 \text{mm}) . [\sqrt{2.402} (\text{GHz})] = 0.7 < 3.0 \text{ for } 1-\text{g SAR}$

FΜ

Pt=(45.61-95.2)dBm=0.000011mW

The result for RF exposure evaluation SAR= $(0.000011 \text{mW} /5 \text{mm}) . [\sqrt{0.0876} (\text{GHz})] = 0.00000065 < 3.0 for 1-g SAR$

For BT and FM transmit simultaneously (0.7/3)^2 + (0.00000065/3)^2=0.054<1

4. CONCLUSION

The SAR evaluation is not required.

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