

### 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  $\le 7.5$  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

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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