

RF Exposure evaluation

Product Description: Bluetooth Speaker

Model Number: SC-21

FCC ID: 2AEDMSC-21A

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

According to the test report:

$P_t = 7.76 \text{ dBm} = 0.0060 \text{ W} = 6 \text{ mW}$

The result is rounded to one decimal place for comparison

Worse case is as below: [2480MHz -6mW output power]

$(6 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 1.89 < 3.0$ for 1-g SAR

Then SAR evaluation is not required

NOTE: For the maximum power, you can refer FCC test report.