

RF exposure information

FCC ID: 2AKVMHS-S029

Product name: Bluetooth Speaker

Models names: HS-S029, HS-S038, HS-S050

1. Introduction:

This product is Bluetooth Speaker with Bluetooth (operation frequency: 2402~2480MHz) function.

2. Output power considerations:

Worst case output power: 2.372dBm = 1.727mW (at 2402MHz)

3. Compliance criteria:

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 \leq 50 mm are determined by:

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

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

Calculate:

$$(1.727/5) * \sqrt{2.402} = 0.535 < 3 \text{ for 1g SAR}$$

Then SAR evaluation is not required.