

FCC RF Exposure

EUT Description: True Wireless Earbuds

Model No.: IJEB2387

FCC ID: 2AJQ7SPORTZ

Equipment type: Portable Device

1. Test Procedure

According to KDB 447498 D01 General RF Exposure Guidance v06

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:

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

where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation. The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. Test Result of RF Exposure Evaluation

Mode	Channel Freq. (MHz)	Maximum Conducted Output Power(PK)	Conducted Output Power Limit	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)
GFSK	2402	-14.250	21	-14±1	-13	0.0501
	2441	-12.460	21	-12±1	-11	0.0794
	2480	-10.153	21	-10±1	-9	0.1259
π/4-DQPSK	2402	-13.084	21	-13±1	-12	0.0631
	2441	-11.784	21	-11±1	-10	0.1000
	2480	-11.361	21	-11±1	-10	0.1000
8-DPSK	2402	-12.526	21	-12±1	-11	0.0794
	2441	-11.324	21	-11±1	-10	0.1000
	2480	-10.983	21	-10±1	-9	0.1259

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{= 1.26 / 5 \cdot \sqrt{2.480} = 0.03965 \leq 3.0}$$
 Threshold at which no SAR required is and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.