FCC RF Exposure

EUT Description: Multi-Color Wireless Speaker

ModelNo.:24962-DI FCC ID:2AND8-BT2204

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 \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 The result is rounded to one decimal place for comparison

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

		Maximum	Conducted			
Mode	Channel	Conducted	Output			Max tune-up
	Freq. (MHz)	Output	Power Limit	Tune-up	Max tune-up	power
		Power(PK)		power (dBm)	power (dBm)	(W)
GFSK	2402	-4.652	21	-4.652±1	-3.652	0.00043
	2441	-2.83	21	-2.83±1	-1.83	0.00066
	2480	-3.542	21	-3.542±1	-2.542	0.00044

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] $\cdot [\sqrt{f(GHz)}]=0.66/5*\sqrt{2.441}=0.21\leq3.0$ Threshold at which no SAR required is and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.