FCC RF Exposure

EUT Description:Bluetooth headset

Test type.:SMS-T23

Series model: see Test Report No.: FCS202308235W01

FCC ID: 2BCQN-SMS-T23 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 ≤ 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

Mode	Channel	Maximum Conducted	Antenna Gain	Antenna gain numeric	Max tune-
	Freq. (MHz)	Output Power(PK)	(dBi)		up power (W)
GFSK	2402	2.36	-0.4	0.91	0.00172186
	2441	2.29	-0.4	0.91	0.00169433
	2480	2.26	-0.4	0.91	0.00168267
PI/4DQPSK	2402	3.27	-0.4	0.91	0.00212324
	2441	3.22	-0.4	0.91	0.00209893
	2480	3.18	-0.4	0.91	0.00207969

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] $\cdot [\sqrt{f(GHz)}]=2.123/5*\sqrt{2.402}=0.658\leq3.0$ Threshold at which no SAR required is and ≤ 3.0 for 1-g SAR, Separation distance is 5mm.