RF Exposure Evaluation

FCC ID: 2ASB2MU6B

1. Client Information

Applicant	:	Shenzhen senji technology co., LTD
Address	:	Room 705, Building 2, Zhuguang Innovation and Technology Park, Taoyuan Street, Nanshan District, Shenzhen China
Manufacturer	:	Shenzhen senji technology co., LTD
Address		Room 705, Building 2, Zhuguang Innovation and Technology Park, Taoyuan Street, Nanshan District, Shenzhen China

2. General Description of EUT

EUT Name	:	Mu6 Ring Surreal open-ear Wireless Air Conduction sports headphones	
Model(s) No.	:	Mu6 Ring Surreal	
Model Different	:	----	
Sample ID	:	RW-C-202212-0117-2-1#& RW-C-202212-0117-2-2#	
Product Description	:	Operation Frequency:	Bluetooth V5.0: 2402MHz~2480MHz
		Number of Channel:	79 channels
		Antenna Gain:	0.9dBi Chip Antenna
Power Supply	:	Input: DC 5V, 150mA DC 3.7V by 180mAh Rechargeable Li-ion battery	
Software Version	:	V1.0	
Hardware Version	:	V1.0	
Remark: The antenna gain and adapter provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab.			

Note: More test information about the EUT please refer the RF Test Report.

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SAR Test Exclusion Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.**
   (1) Clause 4.3: General SAR test reduction and exclusion guidance
   Sub clause 4.31: Standalone SAR test exclusion considerations
   1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	4.15	4±1	5	3.162	0.980	**3.0**
2.441	2.79	2±1	3	1.995	0.623	**3.0**
2.480	5.02	5±1	6	3.981	1.254	**3.0**

Test separation: 5mm						
Bluetooth Mode (π /4-DQPSK)						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	4.22	4±1	5	3.162	0.980	**3.0**
2.441	2.83	2±1	3	1.995	0.623	**3.0**
2.480	7.30	7±1	8	6.31	1.987	**3.0**

Test separation: 5mm						
Bluetooth Mode (8-DPSK)						
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	6.15	6±1	7	5.012	1.554	**3.0**
2.441	6.85	6±1	7	5.012	1.566	**3.0**
2.480	7.33	7±1	8	6.31	1.987	**3.0**

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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