

RF Exposure Evaluation

FCC ID: 2A4MJ-S800

1. Client Information

Applicant	:	Jiaxing Yuejia Trading Co.,Ltd
Address	:	Room 1201-A3, Suyin Building, No. 999, Hongxing Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province China
Manufacturer	:	Jiaxing Yuejia Trading Co.,Ltd
Address	:	Room 1201-A3, Suyin Building, No. 999, Hongxing Road, Economic and Technological Development Zone, Jiaxing City, Zhejiang Province China

2. General Description of EUT

EUT Name	:	wireless headset
Model(s) No.	:	S800, MY002U, MY002, MY001, MY001S, MY002S, MY002U, Pro999, C9, S880, MD528, MD538, Y50, X21S, X21BT, Q26, Pro-X6, X6-Pro, J28, B4, W11, W13, T30, TWS-48, TWS-B18, P3, QD-7, A68, SP-31, S29, H02, PW09, S518, TWS-19, BY-8, X7, YX06, SK19, A6s, TWST20, MS-B4, T40, M618, X57, X55, mini12, mini13
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that appearance.
Product Description	:	Operation Frequency: Bluetooth V5.4: 2402MHz~2480MHz
		Number of Channel: Bluetooth 5.4: 79 channels
		Antenna Gain: 1.2dBi FPC Antenna
		Modulation Type: GFSK, Pi/4-DQPSK, 8-DPSK
		Bit Rate of Transmitter: 1/2/3Mbps
Power Supply (Charging Box)	:	Input: DC 5V DC 3.7V by 180mAh Rechargeable Li-ion battery
Power Supply (Earphone)	:	3.7V by 25mAh Rechargeable Li-ion battery
Software Version	:	v2
Hardware Version	:	v1
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

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

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)] * $\sqrt{f_{\text{GHz}}}$ ≤ 3.0 for 1-g SAR

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $\sqrt{f_{\text{GHz}}}$ $\leq 7.5.0$ for 10-g SAR

2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	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	2.622	3±1	4	2.512	0.779	3.0
2.441	2.548	3±1	4	2.512	0.785	3.0
2.480	1.971	2±1	3	1.995	0.628	3.0
Bluetooth Mode (Pi/4-DQPSK)						
Frequency (GHz)	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	3.226	3±1	4	2.512	0.779	3.0
2.441	3.044	3±1	4	2.512	0.785	3.0
2.480	2.44	2±1	3	1.995	0.628	3.0
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	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	3.753	4±1	5	3.162	0.980	3.0
2.441	3.582	4±1	5	3.162	0.988	3.0
2.480	3.001	3±1	4	2.512	0.791	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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