

RF Exposure Evaluation

FCC ID: 2A35V-MI04

1. Client Information

Applicant	:	Shenzhenshi Hantai Keji Youxian Gongsi
Address	:	Baoanqu Xixiangjiedao Gushushequ Ruishangju 1dong A.Bzuo Bzuo 906 Shen zhen shi Guang dong sheng 518000
Manufacturer	:	Shenzhenshi Hantai Keji Youxian Gongsi
Address	:	Baoanqu Xixiangjiedao Gushushequ Ruishangju 1dong A.Bzuo Bzuo 906 Shen zhen shi Guang dong sheng 518000

2. General Description of EUT

EUT Name	:	wireless headphone	
Model(s)	:	MI04	
Model Different	:	----	
Brand Name	:	Mipeace, Hearprotek	
Product Description	:	Operation Frequency:	Bluetooth V5.0(BT): 2402~2480 MHz
		Number of Channel:	Bluetooth: 79 Channels
		Max Peak Output Power:	Bluetooth: -2.203 dBm
		Antenna Gain:	1.24dBi Ceramic Antenna
		Modulation Type:	GFSK π /4-DQPSK 8-DPSK
Power Supply	:	Input: DC 5V DC 3.7V by 220mAh Li-ion battery	
Software Version	:	5.0	
Hardware Version	:	N/A	
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.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}}] \leq 3.0 \text{ for 1-g SAR}$$

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

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	-4.65	-4±1	-3	0.501	0.155	3.0
2.441	-5.755	-5±1	-4	0.398	0.124	3.0
2.480	-5.972	-5±1	-4	0.398	0.125	3.0
Bluetooth Mode (π/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	-2.436	-2±1	-1	0.794	0.246	3.0
2.441	-3.414	-3±1	-2	0.631	0.197	3.0
2.480	-3.712	-3±1	-2	0.631	0.199	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	-2.203	-2±1	-1	0.794	0.246	3.0
2.441	-3.288	-3±1	-2	0.631	0.197	3.0
2.480	-3.253	-3±1	-2	0.631	0.199	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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