



RF Exposure Evaluation

FCC ID:2AMWY-B06

1. Client Information

Applicant	:	Shenzhen Pincun Digital Technology Co., LTD.
Address	:	1307, HengLu E-Times Building, No. 159 North Pingji Avenue, Hehua Community, Pinghu Street, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen Shenzhan Electronics CO., LTD.
Address	:	Building 6, No. 1 Xuri East Road, Shanxia community, Pinghu, Longgang, Shenzhen, Guangdong, China, 518111

2. General Description of EUT

EUT Name	:	Wireless headphones
Model(s)	:	B06, E6, Queen, I30, ANC-05L, B-01S
Model Difference	:	All models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is color and logo.
Product Description	:	Operation Frequency: Bluetooth V5.3: 2402MHz~2480MHz
		Number of Channel: 79 channels
		RF Output Power: 4.66dBm (Max)
		Antenna Gain: -0.58dBi PCB Antenna
	:	Modulation Type: GFSK(1Mbps) $\pi/4$ -DQPSK(2Mbps) 8-DPSK(3Mbps)
Power Supply	:	Input: DC 5V DC 3.7V by 500mAh Rechargeable Li-ion battery
Software Version	:	V1.0
Hardware Version	:	V1.0
Connecting I/O Port(S)	:	Please refer to the User's Manual
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:

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

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



2. Calculation:

Test separation: 5mm							
Bluetooth							
Mode	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
GFSK	2402	3.32	3±1	4	2.512	0.779	3.0
	2441	3.62	4±1	5	3.162	0.988	3.0
	2480	3.77	4±1	5	3.162	0.996	3.0
π/4-DQPSK	2402	3.77	4±1	5	3.162	0.980	3.0
	2441	4.27	4±1	5	3.162	0.988	3.0
	2480	4.19	4±1	5	3.162	0.996	3.0
8-DPSK	2402	3.94	4±1	5	3.162	0.980	3.0
	2441	4.13	4±1	5	3.162	0.988	3.0
	2480	4.66	5±1	6	3.981	1.254	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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