

# Maximum Permissible Exposure Evaluation

## *FCC ID:2AV2D-XHBT01*

### 1. Client Information

<b>Applicant</b>	:	Zhejiang Xinhe Industry and Trade Co, Ltd.
<b>Addres</b>	:	No.2518, Juying Road, Taizhou, Zhejiang, China
<b>Manufacturer</b>	:	Zhejiang Xinhe Industry and Trade Co, Ltd.
<b>Address</b>	:	No.2518, Juying Road, Taizhou, Zhejiang, China

## 2. General Description of EUT

EUT Name	Intelligent heating waistband		
Models No.	XHBT01		
Model Different	N/A		
Product Description	:	Operation Frequency:	Bluetooth V5.0: 2402~2480 MHz
	:	Antenna Gain:	0dBi PCB Antenna
Power Supply	:	DC Voltage Supply from AC/DC Adapter	
Power Rating	:	Adapter Model:BSY01J3050200V U Input: AC 100-240V~50/60Hz, 0.3A Output: DC 5.0V-2.0A	
Software Version	:	GT10_1119_V6.1.HEX	
Hardware Version	:	GT-10-BT-V1.1	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	



## 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  $\leq 5$  mm are determined by:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] \*  $[\sqrt{f_{\text{GHz}}}] \leq 3.0$  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						
BT 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	1.168	1±1	2	1.58	0.491	3.0
2.441	1.744	1±1	2	1.58	0.495	3.0
2.480	1.458	1±1	2	1.58	0.499	3.0

For BT: 2402MHz~2480MHz

The MPE is calculated as **0.499 < limit 3.0**. So, the device compliance the RF Exposure requirement.

The RF Exposure Information page from the manual is included here for reference.

### Note

For a more detailed features description, please refer to the RF Test Report.

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