

# RF Exposure Evaluation

## FCC ID: 2AM74-R5

### 1. Client Information

**Applicant** : Shenzhen Newwear Technology Co.,Ltd  
**Address** : Room 1203, Jinhua Building, Dalang Street, Longhua District,  
Shenzhen City, Guangdong Province, P.R. China  
**Manufacturer** : Shenzhen Newwear Technology Co.,Ltd  
**Address** : Room 1203, Jinhua Building, Dalang Street, Longhua District,  
Shenzhen City, Guangdong Province, P.R. China

### 2. General Description of EUT

<b>EUT Name</b>	:	Smart watch	
<b>Models No.</b>	:	R5, R1, R3, R7, R8, R9, R10, R11, R18, R20	
<b>Model Different</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is appearance color.	
<b>Product Description</b>	:	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	:	RF Output Power:	BLE:-1.216 dBm (Max)
	:	Antenna Gain:	2dBi FPC Antenna
<b>Power Supply</b>	:	DC Voltage Supply from USB cable. DC Supply by the Li-ion Battery.	
<b>Power Rating</b>	:	DC 3.7V 200mAh by Li-ion Battery. Input: DC 5V 0.17A	
<b>Software Version</b>	:	00660100	
<b>Hardware Version</b>	:	V1.1	
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual	

**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  $\leq 5$  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						
BLE 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	-1.216	$-1 \pm 1$	0	1.00	0.310	3.0
2.442	-2.321	$-2 \pm 1$	-1	0.79	0.248	3.0
2.480	-3.034	$-3 \pm 1$	-2	0.63	0.199	3.0

So standalone SAR measurements are not required.

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