RF Exposure Evaluation

FCC ID: 2A8ZB-G40PRO

1. Client Information

Applicant	:	Shenzhen Weiwo Intelligent Electronics Co., Ltd
Address	:	Floor 2, building A7, No. 416, Xuegang North Road, Qinghu community, Longhua street, Longhua District, Shenzhen, China
Manufacturer	:	Shenzhen Weiwo Intelligent Electronics Co., Ltd
Address	:	Floor 2, building A7, No. 416, Xuegang North Road, Qinghu community, Longhua street, Longhua District, Shenzhen, China

2. General Description of EUT

EUT Name	:	SMART WATCH	
Model(s) No.	:	G40PRO, G102	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name.	
Product Description	:	Operation Frequency:	Bluetooth 5.3: 2402MHz~2480MHz
		Number of Channel:	79 channels for Bluetooth(BR+EDR) 40 channels for Bluetooth LE
		Antenna Gain:	0.17dBi Wire Antenna
		Modulation Type: Bluetooth(BR+EDR)	GFSK, Pi/4-DQPSK, 8-DPSK
		Modulation Type: Bluetooth LE	GFSK
Power Supply	:	USB INPUT: DC 5V/130mA DC 3.7V 290mAh 1.07Wh Rechargeable Li-ion battery	
Software Version	:	MOY-J0M4-2.0.0-BAB4A55A	
Hardware Version	:	MOY.MA1008.01	

Remark:
(1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
(3) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

1 A/F., Building.6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an, Shenzhen, Guangdong, China
Tel: +86 75526509301 Fax: +86 75526509195

SAR Test Exclusion Calculations for FCC

1. 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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤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	6.175	6±1	7	5.012	1.554	**3.0**
2.441	5.951	5±1	6	3.981	1.244	**3.0**
2.480	5.785	5±1	6	3.981	1.254	**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	6.634	6±1	7	5.012	1.554	**3.0**
2.441	6.329	6±1	7	5.012	1.566	**3.0**
2.480	6.078	6±1	7	5.012	1.579	**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	6.855	6±1	7	5.012	1.554	**3.0**
2.441	6.488	6±1	7	5.012	1.566	**3.0**
2.480	6.244	6±1	7	5.012	1.579	**3.0**

Test separation: 5mm						
Bluetooth LE Mode (1M)						
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	6.081	6±1	7	5.012	1.554	**3.0**
2.440	5.892	5±1	6	3.981	1.244	**3.0**
2.480	5.736	5±1	6	3.981	1.254	**3.0**
Bluetooth LE Mode (2M)						
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	6.158	6±1	7	5.012	1.554	**3.0**
2.440	5.980	5±1	6	3.981	1.244	**3.0**
2.480	5.822	5±1	6	3.981	1.254	**3.0**

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.

-----END OF THE REPORT-----