

RF Exposure Evaluation

FCC ID: 2ANIE-V200

1. Client Information

Applicant	:	WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD
Address	:	2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao,
Manufacturer	:	WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD
Address	:	2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao,

2. General Description of EUT

EUT Name	:	V200 Wearable Smart Watch	
Model(s) No.	:	V200, V200S, V200C, V200Pro, V200Plus	
Model Different	:	All modles are based on the same circuit and structure, the differences are Appearance shape, Model name is different.	
Sample ID	:	TBBJ-20201102-04-1# & TBBJ-20201102-04-2#	
Product Description	:	Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 4.2(BLE): 40 channels
		RF Output Power:	5.216 dBm (Max)
		Antenna Gain:	4 dB Ceramic Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1Mbps
Power Rating	:	Input:DC 5V DC 3.8V by 250mAh Li-ion battery	
Software Version	:	3.2.3.27	
Hardware Version	:	V1.4	
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:

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

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

2. Calculation:

Test separation: 5mm						
BLE Mode (1Mbps)						
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	5.216	5±1	6	3.981	1.234	3.0
2.442	5.068	5±1	6	3.981	1.244	3.0
2.480	4.390	4±1	5	3.162	0.996	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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