

RF Exposure Evaluation

FCC ID: 2AZP4-S9

1. Client Information

Applicant	:	Shenzhen Wellstec Communications Co., Ltd
Address	:	608,6/F, Building A, UNIS Cyber Port, Langshan Road 13, Hi-Tech park, Nanshan District, Shenzhen, China.
Manufacturer	:	Shenzhen Wellstec Communications Co., Ltd
Address	:	608,6/F, Building A, UNIS Cyber Port, Langshan Road 13, Hi-Tech park, Nanshan District, Shenzhen, China.

2. General Description of EUT

EUT Name	:	Smart Watch	
Model(s) No.	:	S9	
Model Different	:	----	
Sample ID	:	TBBJ-20210401-02-1# & TBBJ-20210401-02-2#	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels
		RF Output Power:	5.031 dBm (Max)
	:	Antenna Gain:	2 dBi Wire Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	1Mbps
Power Rating	:	Input: DC 5V DC 3.7V by 200mAh Li-ion battery	
Software Version	:	N/A	
Hardware Version	:	N/A	
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.

TB-RF-074-1.0

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:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $\sqrt{f(\text{GHz})}$ ≤ 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 (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	4.348	4±1	5	3.162	0.980	3.0
2.442	5.031	5±1	6	3.981	1.244	3.0
2.480	4.725	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.

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