## Shenzhen Toby Technology Co., Ltd.

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# RF Exposure Evaluation FCC ID: 2ARUI-ITF20RD

### 1. Client Information

Applicant	:	American Exchange Time LLC			
Address	Address : No.1441 Broadway 27th Floor, New York, NY 10018				
Manufacturer	5	American Exchange Time LLC			
Address	dress : No.1441 Broadway 27th Floor, New York, NY 10018				

2. General Description of EUT

<b>EUT Name</b>	n:	Smart Watch				
Model(s) No.	3	500029, 500027, 500028				
Model Different	*	All these models are the same PCB, layout and electrical circuit, the only difference is Color of the bands.				
W. Company		Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 5.0(BLE): 40 channels			
Product		RF Output Power:	8.117 dBm (Max)			
Description	À	Antenna Gain:	0 dBi Monopole Antenna			
		Modulation Type:	GFSK			
	2	Bit Rate of Transmitter:	1Mbps			
Power Rating		USB Input:DC 5V DC 3.7V 170mAh by Li-ion battery				
<b>Software Version</b>	:	V3.6				
Hardware Version	:	V03				
Connecting I/O Port(S)	9	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.

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#### **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)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\, \leqslant \! 3.0$  for 1-g SAR

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



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#### 2. Calculation:

Test separation: 5mm  BLE Mode (1Mbps)										
2.402	7.925	8±1	9	7.943	2.462	3.0				
2.442	8.117	8±1	9	7.943	2.482	3.0				
2.480	7.775	8±1	9	7.943	2.502	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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