

RF Exposure Evaluation

FCC ID: 2ARUI-08068

1. Client Information

Applicant : American Exchange Time LLC
Address : No.1441 Broadway 27th Floor, New York, NY 10018
Manufacturer : ShenZhen KY Technology Co., Ltd
Address : No.369, BaoTian 1st RD, TieGang Industrial Park, Xixiang Town,
Baoan District, ShenZhen, PRC

2. General Description of EUT

EUT Name	:	Smart Watch
Models No.	:	08068, 08069, 08070, 08071, 03684, 03685
Model Different	:	All these models are the same PCB, layout and electrical circuit, the only different is Color of the bands.
Product Description	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	RF Output Power:	GFSK:0.283dBm (Max)
	Antenna Gain:	1dBi PCB Antenna
Power Rating	:	DC 5V0.5A by USB Cable. DC 3.7V by 150mAh Li-ion battery.
Software Version	:	2400
Hardware Version	:	V1.0
Connecting I/O Port(S)	:	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 ≤ 5 mm are determined by:

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

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

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	-0.247	0 ± 1	1	1.259	0.390	3.0
2.440	0.283	0 ± 1	1	1.260	0.390	3.0
2.480	0.144	0 ± 1	1	1.260	0.390	3.0

The worst RF Exposure Evaluation is calculated as $0.390 < \text{limit } 3.0$ So standalone SAR measurements are not required.

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