

# RF Exposure Evaluation

## FCC ID: 2ASHI-DT28

### 1. Client Information

<b>Applicant</b>	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED
<b>Address</b>	:	Room 17I, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China.
<b>Manufacturer</b>	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED
<b>Address</b>	:	Room 17I, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China.

### 2. General Description of EUT

<b>EUT Name</b>	:	Outdoor Sports Watch
<b>Models No.</b>	:	DT28,S10,DT08, DT58, DT68,DT98,DT168,DT365,DT99, DT688
<b>Model Difference</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.
<b>Product Description</b>	Operation Frequency:	Bluetooth: 2402~2480 MHz
	RF Output Power:	BLE: -0.292 dBm(Max)
	Antenna Gain:	-2 dBi Internal Antenna
<b>Power Rating</b>	:	Input: DC 5V DC 3.7V by 250mAh Li-ion batter
<b>Software Version</b>	:	N/A
<b>Hardware Version</b>	:	V1.1
<b>Connecting I/O Port(S)</b>	:	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  $\leq 5$  mm are determined by:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] \*  $[\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  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 (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	-0.292	$0 \pm 1$	1	1.259	0.390	3.0
2.442	-0.405	$0 \pm 1$	1	1.259	0.393	3.0
2.480	-1.025	$-1 \pm 1$	0	1.000	0.315	3.0

Test separation: 5mm

## The worst RF Exposure Evaluation

Worst Calculation Value	Threshold Value
0.393	3.0

The worst RF Exposure Evaluation is **0.393 / cm<sup>2</sup> < limit 3.0**, So standalone SAR measurements are not required.

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