

RF Exposure Evaluation

FCC ID: 2ASHI-DT28

1. Client Information

Applicant	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED
Address	:	Room 171, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China.
Manufacturer	:	SHENZHEN XINKEYING DIGITAL CO.,LIMITED
Address	:	Room 171, Block A, HuaQiang Square, HuaQiang North Road, Futian District, Shenzhen, China.

2. General Description of EUT

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

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

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	-0.292	0±1	1	1.259	0.390	3.0
2.442	-0.405	0±1	1	1.259	0.393	3.0
2.480	-1.025	-1±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 / cm² < limit 3.0**, So standalone SAR measurements are not required.

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