



RF Exposure Evaluation

FCC ID: 2AXJW-KT58

1. Client Information

Applicant	:	Shenzhen Kule Times Technology Co.,Ltd.
Address	:	6B1-3, Block AB, TianXiang Building, CheGongMiao, Futian District, ShenZhen City, Guangdong Province, ShenZhen, China
Manufacturer	:	Longchuan Kule Times Technology co.,ltd.
Address	:	Block 31-2 of Shenzhen Bao'an (Longchuan) industrial transfer industrial park, Dengyun Town, Longchuan County, ShenZhen, China

2. General Description of EUT

EUT Name	:	Smart Watch
Model(s) No.	:	KT58, Q57, Q59, KT40, KT41, KT42, KT43, KT44, KT45, KT46, KT47, KT48, KT49, KT51, KT52, KT53, KT54, KT55, KT56, KT57
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.
Product Description	:	Operation Frequency: Bluetooth LE5.0: 2402MHz~2480MHz
	:	Number of Channel: 40 channels
	:	Antenna Gain: 0 dBi Wire Antenna
	:	Modulation Type: GFSK
	:	Bit Rate of Transmitter: Bluetooth LE:1/2Mbps
Power Supply	:	Input: DC 5V DC 3.7V by 130mAh Rechargeable Li-ion battery
Software Version	:	moy--GOE3-2.3.3
Hardware Version	:	MOY 90109.2
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.

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)] * $[\sqrt{f_{\text{GHz}}}] \leq 3.0$ 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:

Bluetooth LE 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	1.59	1 ± 1	2	1.585	0.491	3.0
2.440	2.173	2 ± 1	3	1.995	0.623	3.0
2.480	2.066	2 ± 1	3	1.995	0.628	3.0
Bluetooth LE Mode(2Mbps)						
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	-0.502	0 ± 1	1	1.259	0.390	3.0
2.440	-0.201	0 ± 1	1	1.259	0.393	3.0
2.480	0.046	0 ± 1	1	1.259	0.397	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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