



RF Exposure Evaluation

FCC ID: 2BFL5-KT76

1. Client Information

Applicant	:	Shenzhen Kule Times Technology Co.,Ltd.
Address	:	4th Floor, No. 212 Pu'an Road, Liuyue Community, Henggang Street, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen Kule Times Technology Co.,Ltd.
Address	:	4th Floor, No. 212 Pu'an Road, Liuyue Community, Henggang Street, Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Smart Watch	
Model(s) No.	:	KT76, KT64, KT65, KT66, KT67, KT68, KT69, KT70, KT71, KT72, KT73, KT75, KT77, KT78, KT79, KT80, KT81, KT82, KT83, KT85, KT86, KT87, KT88, KT89, KT90, KT91, KT92, KT93, KT95, KT96, KT97, KT98, KT99	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.	
Product Description	:	Operation Frequency:	Bluetooth V5.4: 2402MHz~2480MHz
		Number of Channel:	79 channels for Bluetooth(BR+EDR) 40 channels for Bluetooth LE
		Antenna Gain:	0dBi Wire Antenna
		Modulation Type: Bluetooth(BR+EDR)	GFSK, Pi/4-DQPSK, 8-DPSK
		Modulation Type: Bluetooth LE	GFSK
Power Supply	:	USB Input: DC 5V/100mA DC 3.7V 500mAh 1.85Wh Rechargeable Li-ion battery	
Software Version	:	MOY-V264-2.0.0	
Hardware Version	:	V1.0	
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:

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

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



2. Calculation:

Test separation: 5mm						
Bluetooth 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	7.386	7±1	8	6.31	1.956	3.0
2.441	7.214	7±1	8	6.31	1.972	3.0
2.480	7.157	7±1	8	6.31	1.987	3.0
Bluetooth Mode (Pi/4-DQPSK)						
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	7.921	7±1	8	6.31	1.956	3.0
2.441	7.617	7±1	8	6.31	1.972	3.0
2.480	7.521	7±1	8	6.31	1.987	3.0
Bluetooth Mode (8-DPSK)						
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	8.250	8±1	9	7.943	2.462	3.0
2.441	7.892	7±1	8	6.31	1.972	3.0
2.480	7.790	7±1	8	6.31	1.987	3.0

Test separation: 5mm						
Bluetooth LE Mode (1M)						
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	7.507	7±1	8	6.31	1.956	3.0
2.440	7.304	7±1	8	6.31	1.971	3.0
2.480	7.247	7±1	8	6.31	1.987	3.0
Bluetooth LE Mode (2M)						
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	7.489	7±1	8	6.31	1.956	3.0
2.440	7.303	7±1	8	6.31	1.971	3.0
2.480	7.205	7±1	8	6.31	1.987	3.0

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.

-----END OF THE REPORT-----

