RF Exposure Evaluation

FCC ID: 2BCKX-TR3MAX

1. Client Information

Applicant	:	Shenzhen Daiku Technology Co., Ltd
Address	:	605-606, Building E, Longjing Science Park, No.339 Bulong Road, Longgang District, Shenzhen, China
Manufacturer	:	Shenzhen Daiku Technology Co., Ltd
Address	:	605-606, Building E, Longjing Science Park, No.339 Bulong Road, Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name	:	smart watch	
Model(s) No.	:	TR3MAX	
Model Difference	:	----	
Product Description	:	Operation Frequency:	Bluetooth V5.3: 2402MHz~2480MHz
		Antenna Gain:	-1dBi Wire Antenna
Power Supply	:	Input: DC 5V/0.2A DC 3.8V 410mAh 1.558Wh Rechargeable Li-ion battery	
Software Version	:	V0.01	
Hardware Version	:	3.0	
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.

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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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 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	3.879	4±1	5	3.162	0.980	**3.0**
2.441	4.295	4±1	5	3.162	0.988	**3.0**
2.480	4.336	4±1	5	3.162	0.996	**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	4.658	5±1	6	3.981	1.234	**3.0**
2.441	5.063	5±1	6	3.981	1.244	**3.0**
2.480	5.073	5±1	6	3.981	1.254	**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	5.295	5±1	6	3.981	1.234	**3.0**
2.441	5.693	6±1	7	5.012	1.566	**3.0**
2.480	5.678	6±1	7	5.012	1.579	**3.0**

Test separation: 5mm						
Bluetooth LE 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	5.335	5±1	6	3.981	1.234	**3.0**
2.440	5.472	5±1	6	3.981	1.244	**3.0**
2.480	5.385	5±1	6	3.981	1.254	**3.0**

Test separation: 5mm						
Bluetooth LE 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	5.482	5±1	6	3.981	1.234	**3.0**
2.440	5.689	6±1	7	5.012	1.566	**3.0**
2.480	5.584	6±1	7	5.012	1.579	**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-----