RF Exposure Evaluation
FCC ID: 2ATK6-Q1

1. Client Information

Applicant	:	SHENZHEN LOOKCARE INDUSTRY CO., LTD
Address	:	5F, BIdg H, No.8 East Area, Shangxue Science and Technology Industry, Bantian St, Longgang Dist. Shenzhen, China
Manufacturer	:	SHENZHEN LOOKCARE INDUSTRY CO., LTD
Address	:	5F, BIdg H, No.8 East Area, Shangxue Science and Technology Industry, Bantian St, Longgang Dist. Shenzhen, China

2. General Description of EUT

EUT Name	:	SmartWatch	
Model(s) No.	:	Q1, Q2, Q3, Q5, Q6, Q7, Q8, Q9, Y1, Y2, Y3, Y5, Y6, Y7, Y8, Y9, X1, X2, X3, X5, X6, X7, X8, X9	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the model name.	
Product Description	:	Operation Frequency:	Bluetooth 5.0: 2402MHz~2480MHz BLE 4.2: 2402MHz~2480MHz
		Number of Channel:	Bluetooth 5.0(BT): 79 channels BLE 4.2(BLE):40 channels
		RF Output Power:	1.880 dBm(Max)
		Antenna Gain:	-1.53 dBi Internal Antenna
		Modulation Type:	GFSK, Pi/4-DQPSK
		Bit Rate of Transmitter:	1/2Mbps
Power Supply	:	USB Input: 5V DC 3.7V by 175mAh Li-ion battery	
Software Version	:	N/A	
Hardware Version	:	AB601-V1.1	
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.

1 A/F., Building.6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an, Shenzhen, Guangdong, China
Tel: +86 75526509301 Fax: +86 75526509195

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(JL) 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	-0.843	0±1	1	1.259	0.390	**3.0**
2.441	-0.906	0±1	1	1.259	0.393	**3.0**
2.480	-1.603	-1±1	0	1.000	0.315	**3.0**
Bluetooth(JL) 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	-0.894	0±1	1	1.259	0.390	**3.0**
2.441	-0.903	0±1	1	1.259	0.393	**3.0**
2.480	-0.015	0±1	1	1.259	0.397	**3.0**
BLE(HS6620D) 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	1.838	1±1	2	1.585	0.491	**3.0**
2.442	1.880	1±1	2	1.585	0.495	**3.0**
2.480	1.378	1±1	2	1.585	0.499	**3.0**

Simultaneous Transmission for SAR Exclusion			
Simultaneous Transmission for SAR Exclusion		**Total Calculation Value**	**Limit**
Bluetooth Mode	**BLE Mode**		
0.0530	**0.0668**	**0.1**	**1.0**
Note: The sample support one BT modular and BLE modular, they supports difference antenna, need consider simultaneous transmission;			

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.

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