RF Exposure Evaluation

FCC ID: 2BEU6W027SL

1. Client Information

Applicant	:	Sharetronic Data Technology Co., Ltd.
Address	:	1209 F12th Yaohuachuagnjian Building No. 6023 Shennan Blvd. Futian District Shenzhen China
Manufacturer	:	Sharetronic Data Technology Co., Ltd.
Address	:	1209 F12th Yaohuachuagnjian Building No. 6023 Shennan Blvd. Futian District Shenzhen China

2. General Description of EUT

EUT Name	:	Smart Watch	
Model(s) No.	:	W027, W021, W024, W028, W030, W031, W032, W034, W036, W038, MM-W027, ST-027	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance color.	
Sample ID	:	HC-C-202311-0147-01-01-1# & HC-C-202311-0147-01-01-2#	
Product Description	:	Operation Frequency:	Bluetooth V5.2: 2402MHz~2480MHz
		Number of Channel:	BT: 79 channels BLE: 40 channels
		Antenna Gain:	0.17dBi Electronic Wire Antenna
Power Rating	:	USB Input: DC 5V, 0.165A DC 3.7V 260mAh 0.96Wh Rechargeable Li-ion battery	
Software Version	:	----	
Hardware Version	:	----	
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	5.852	5±1	6	3.981	1.234	**3.0**
2.441	6.274	6±1	7	5.012	1.566	**3.0**
2.480	6.415	6±1	7	5.012	1.579	**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	6.310	6±1	7	5.012	1.554	**3.0**
2.441	6.661	6±1	7	5.012	1.566	**3.0**
2.480	6.828	6±1	7	5.012	1.579	**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	6.847	6±1	7	5.012	1.554	**3.0**
2.441	7.255	7±1	8	6.310	1.972	**3.0**
2.480	7.303	7±1	8	6.310	1.987	**3.0**
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	4.643	4±1	5	3.162	0.980	**3.0**
2.440	4.972	4±1	5	3.162	0.988	**3.0**
2.480	5.055	5±1	6	3.981	1.254	**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	4.735	4±1	5	3.162	0.980	**3.0**
2.440	5.157	5±1	6	3.981	1.244	**3.0**
2.480	5.153	5±1	6	3.981	1.254	**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-----