



RF Exposure Evaluation

FCC ID: 2BCN6-D8

1. Client Information

Applicant	:	Shenzhen Leyifeng Technology Co.,Ltd
Address	:	3/F. Buiding B, Xinzhongtai Science and Technology park, Gushuyi, Xixiang, Bao'an District, Shenzhen, China
Manufacturer	:	Shenzhen Leyifeng Technology Co.,Ltd
Address	:	3/F. Buiding B, Xinzhongtai Science and Technology park, Gushuyi, Xixiang, Bao'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Smart watch
Model(s) No.	:	D8, D8pro, D7, D9, D9pro, D11, D12, D77, D88, D69, D58
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance.
Sample ID	:	HC-C-202311-0316-01-01-1#& HC-C-202311-0316-01-01-2#
Product Description	:	Operation Frequency: Bluetooth V4.0: 2402MHz~2480MHz
	:	Number of Channel: BT: 79 channels BLE: 40 channels
	:	Antenna Gain: 2.5dBi Wire Antenna
Power Rating	:	USB Input: DC 5V 130mA DC 3.8V 240mAh 0.912Wh Rechargeable Li-ion battery
Software Version	:	2.0
Hardware Version	:	1.0
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:

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

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



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	0.908	0±1	1	1.259	0.390	3.0
2.441	1.153	1±1	2	1.585	0.495	3.0
2.480	0.928	0±1	1	1.259	0.397	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	1.759	1±1	2	1.585	0.491	3.0
2.441	1.985	1±1	2	1.585	0.495	3.0
2.480	1.745	1±1	2	1.585	0.499	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	2.389	2±1	3	1.995	0.618	3.0
2.441	2.595	2±1	3	1.995	0.623	3.0
2.480	2.376	2±1	3	1.995	0.628	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	0.464	0±1	1	1.259	0.390	3.0
2.440	0.642	0±1	1	1.259	0.393	3.0
2.480	0.811	0±1	1	1.259	0.397	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	0.991	0±1	1	1.259	0.390	3.0
2.440	1.223	1±1	2	1.585	0.495	3.0
2.480	0.940	0±1	1	1.259	0.397	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-----

