

RF Exposure Evaluation

FCC ID: 2AFMM-W08

1. Client Information

Applicant	:	EHOME PRODUCTS CO., LIMITED
Address	:	UNIT04, 7/F, BRIGHT WAY TOWER, NO.33 MONG KOK ROAD, KOWLOON, HK
Manufacturer	:	EHOME PRODUCTS CO., LIMITED
Address	:	UNIT04, 7/F, BRIGHT WAY TOWER, NO.33 MONG KOK ROAD, KOWLOON, HK

2. General Description of EUT

EUT Name	:	Smart watch
Model(s) No.	:	W08, W09 Plus, Touch, Star, F1
Model Different	:	The color and model of the product are different
Sample ID	:	TBBJ-20201029-12-1# & TBBJ-20201029-12-2#
Product Description	Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 4.2(BLE): 40 channels
	RF Output Power:	-0.518 dBm (Max)
	Antenna Gain:	0 dB internal Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps
Power Rating	:	Input:DC 5V DC 3.7V by 180mAh Li-ion battery
Software Version	:	MOY-FN3-1.7.5
Hardware Version	:	MOY.158.06
Connecting I/O Port(S)	:	Please refer to the User's Manual
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:

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

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

2. Calculation:

Test separation: 5mm

BLE 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	-0.553	-0 ± 1	1	1.259	0.390	3.0
2.442	-0.518	-0 ± 1	1	1.259	0.393	3.0
2.480	-1.019	-1 ± 1	0	1.000	0.315	3.0

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.

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