

# RF Exposure Evaluation

## FCC ID: 2AUCJ-WCT002

### 1. Client Information

Applicant	:	Huzhou Dear Industry Co.Ltd.
Address	:	26# Wuxing Technology&Creation Park, Huzhou, China
Manufacturer	:	Huzhou Dear Industry Co.Ltd.
Address	:	26# Wuxing Technology&Creation Park, Huzhou, China

### 2. General Description of EUT

EUT Name	:	Wecount smart home gym
Model(s) No.	:	WCT002, WCT
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.
Product Description	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 4.0(BLE): 40 channels
	RF Output Power:	-6.422dBm (Max)
	Antenna Gain:	0.46dBi PCB Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps
Power Rating	:	Input: DC6V 0.2A DC 1.5V*4 AA Li-ion battery
Software Version	:	N/A
Hardware Version	:	TI CC2540F256

**Remark:** The antenna gain provided by the applicant, the adapter and verified for the RF conduction test 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  $\leq 5$  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	-6.442	-6±1	-5	0.316	0.316	3.0	
2.441	-8.287	-8±1	-7	0.200	0.200	3.0	
2.480	-10.752	-10±1	-9	0.126	0.126	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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