

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 ≤ 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

| 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.

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