# RF Exposure Evaluation

## *FCC ID: 2ALUEBT-01*

## 1. Client Information

| | | |
|---|---|---|
| **Applicant** | : | Dynamic Bicycles, Inc. |
| **Address** | : | 461 Main Street, Suite C200 Pawtucket, RI 02860 USA |
| **Manufacturer** | : | Smlpretty Technology Co., Limited. |
| **Address** | : | B Block 4J, Zhongyang Avenue, Baoyuan Road, Xixiang Avenue, Baoan District, Shenzhen City, China |

## 2. General Description of EUT

| | | | |
|---|---|---|---|
| **EUT Name** | : | Bluetooth bicycle lock | |
| **Models No.** | : | BT-01 | |
| **Model Difference** | : | N/A | |
| **Product Description** | : | Operation Frequency: | Bluetooth 4.0(BLE): 2402MHz~2480MHz |
| | | Number of Channel: | Bluetooth 4.0(BLE): 40 channels **see note(3)** |
| | | RF Output Power: | 1.404 dBm Conducted Power |
| | | Antenna Gain: | 0.5 dBi Chip Antenna |
| | | Modulation Type: | GFSK |
| | | Bit Rate of Transmitter: | 1Mbps(GFSK) |
| **Power Supply** | : | DC Voltage Supplied by the Host System.<br>DC Supply by the Battery. | |
| **Power Rating** | : | DC 5.0 V by Host System.<br>DC 3.7 V by Li-Lion Battery. | |
| **Connecting I/O Port(S)** | : | Please refer to the User's Manual | |

### Note:

More test information about the EUT please refer to 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 | 1.404 | 1±1 | 2 | 1.585 | 0.491 | **3.0** |
| 2.441 | -0.427 | 0±1 | 1 | 1.259 | 0.393 | **3.0** |
| 2.480 | -2.830 | -2±1 | -1 | 0.794 | 0.250 | **3.0** |

**So standalone SAR measurements are not required.**

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