

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. DC Supply by the Battery.
Power Rating	:	DC 5.0 V by Host System. 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.

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	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.

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