## Shenzhen Toby Technology Co., Ltd.

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# RF Exposure Evaluation FCC ID: 2AFRJ-ULOCK

### 1. Client Information

Applicant : Noke

Address : 2801 Thanksgiving Way, Ste 220 Lehi, UT 84043

Manufacturer : Mapleaf technology CO., LIMITED

Address: 5B1003, Shengtaoshajunyuan, Baoan District, Shenzhen City,

Guangdong, China

## 2. General Description of EUT

<b>EUT Name</b>		Noke U-lock				
Models No.		ULOCK 1				
Model Difference	:	N/A				
Product Description		Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 4.2(BLE): 40 channels see note(3)			
		RF Output Power:	-2.444 dBm Conducted Power			
		Antenna Gain: 0.5 dBi Chip Antenna				
		Modulation Type:	GFSK			
		Bit Rate of Transmitter:	1Mbps(GFSK)			
Power Rating	:	DC 1.5V by AAA 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)]\*[  $\sqrt{f_{(GHz)}}$  ]  $\leq$ 3.0 for 1-g SAR

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



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### 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	Threshol d Value			
2.402	-2.444	-2±1	-1	0.794	0.246	3.0			
2.442	-3.151	-3±1	-2	0.631	0.197	3.0			
2.480	-4.106	-4±1	-3	0.501	0.158	3.0			

So standalone SAR measurements are not required.

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