Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AFRJ-HDL1

1. Client Information

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Applicant	:	Noke		
Address	13	2000 Ashton Blvd, Suite 375, Lehi, UT 84043		
Manufacturer	:	Mapleaf technology CO., LIMITED		
Address	:	5B1003, Shengtaoshajunyuan, Baoan District, Shenzhen City, Guangdong, China		

2. General Description of EUT

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EUT Name	ė	Noke HD Padlock		
Models No.	W	HD Padlock		
Model Difference	:	N/A		
Product Description	:	Operation Frequency:	Bluetooth 5.0(BT): 2402MHz~2480MHz	
		RF Output Power:	BLE:-0.277dBm	
		Antenna Gain:	2dBi Internal Antenna	
Power Supply	ė	DC Voltage supplied by DC battery.		
Power Rating		DC 3.6V by DC battery		
Software Version		N/A		
Hardware Version		N/A		
Connecting I/O Port(S)		Please refer to the User's Manual		

Note: More test information about the EUT please refer 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									
BLE 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	-0.277	-1±1	0	1	0.310	3.0			
2.442	-0.562	-1±1	0	1	0.313	3.0			
2.480	-1.017	-1±1	0	1	0.315	3.0			

Test separation: 5mm The worst RF Exposure Evaluation						
0.315	0.315	3.0				

The worst RF Exposure Evaluation is 0.315/ cm2 < limit 3.0, So standalone SAR measurements are not required.

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