Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE165173

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RF Exposure Evaluation FCC ID: 2AFRJ-UCON2

1. Client Information

Applicant	:	Noke		
Address		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

EUT Name	:	electric door strike locks			
Models No.	//	DESS1			
Model Difference		N/A			
Product Description	:	Operation Frequency:	Bluetooth 5.0(BT): 2402MHz~2480MHz		
		RF Conducted Power:	ANT1 Module1(nRF52832): 1.013 dBm ANT2 Module2(nRF52840): -3.104 dBm		
		Antenna Gain:	ANT1:2dBi Internal Wire Antenna ANT2:2dBi Internal Wire Antenna		
Power Supply		DC Voltage supplied by	DC Voltage supplied by DC battery.		
Power Rating	:	DC 3.6V by DC battery			
Software Version	ń	N/A			
Hardware Version		N/A			
Connecting I/O Port(S)	1	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:

ANT1+ANT2

Test separation: 5mm							
Frequency (GHz)	Conducted Total 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	2.435	2±1	3	1.9953	0.618	3.0	
2.442	2.029	2±1	3	1.9953	0.624	3.0	
2.480	1.489	2±1	3	1.9953	0.628	3.0	

ANT1 Module1:

Test separation: 5mm BLE Mode (GFSK)						
2.402	1.013	1±1	2	1.585	0.491	3.0
2.442	0.533	1±1	2	1.585	0.495	3.0
2.480	-0.001	0±1	1	1.259	0.397	3.0

ANT2 Module2:

Test separation: 5mm BLE Mode (GFSK)						
2.402	-3.104	-3±1	-2	0.631	0.196	3.0
2.442	-3.327	-3±1	-2	0.631	0.197	3.0
2.480	-3.881	-3±1	-2	0.631	0.199	3.0

Test separation: 5mm The worst RF Exposure Evaluation					
0.628	3.0				

The worst RF Exposure Evaluation is 0.628/ cm² < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----