



RF Exposure Evaluation

FCC ID: 2BK4P-PPS-1

1. Client Information

Applicant	:	Shenzhen Sumeng Technology Co., Ltd.
Address	:	Room 613, Building A, No. 43 Xinguang Road, Nanshan District, Shenzhen City, China. 518000
Manufacturer	:	Shenzhen Sumeng Technology Co., Ltd.
Address	:	Room 613, Building A, No. 43 Xinguang Road, Nanshan District, Shenzhen City, China. 518000

2. General Description of EUT

EUT Name	:	Pawprints Wireless Button Sensor	
Model(s) No.	:	PPS-1	
Model Difference	:	----	
Product Description	Operation Frequency:	Bluetooth LE 5.0: 2402MHz~2480MHz	
	Number of Channel:	40 channels	
	Antenna Gain:	0.62dBi PCB Antenna	
	Modulation Type:	GFSK	
Power Supply	:	USB INPUT: DC 5V, 0.35A	DC 3.7V 300mAh 1.11Wh Rechargeable Li-ion battery1(SX)
		DC 3.7V 300mAh 1.11Wh Rechargeable Li-ion battery2(SH)	
Software Version	:	----	
Hardware Version	:	----	

Remark:

- (1) The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3) The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- (4) More test information about the EUT please refer 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR

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

2. Calculation:

Test separation: 5mm							
Bluetooth LE Mode (1M)							
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	3.9	3±1	4	2.512	0.779	3.0	
2.440	3.345	3±1	4	2.512	0.785	3.0	
2.480	2.62	2±1	3	1.995	0.628	3.0	

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF THE REPORT-----

