Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE146136

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RF Exposure Evaluation FCC ID: 2AG2A-TON9108

1. Client Information

Applicant: Shenzhen Fast Precision Technologies Co. Ltd.

Address: Room 703, Zhengtailai Business Building, Xixiang Road, Baoan

District, Shenzhen, China

Manufacturer : Shenzhen Fast Precision Technologies Co. Ltd.

Address : Room 703, Zhengtailai Business Building, Xixiang Road, Baoan

District, Shenzhen, China

2. General Description of EUT

EUT Name		IonBeacon				
Models No.	Ė	TON9108				
Brand Name	:	IOTTON				
Model Difference	:	N/A				
Product Description		Operation Frequency: Bluetooth(BLE):2402~2480MHz				
		Number of Channel:	Bluetooth(BLE): 40 channels			
		RF Output Power:	0.898 dBm			
		Antenna Gain:	3 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps			
Power Supply	:	DC power by Lithium Battery.				
Power Rating	: \	DC 3.0V Lithium Battery.				
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.

TB-RF-074-1. 0

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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 v05r02.

- (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

2.

Calculation:

BLE(GFSK)								
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value			
2.402	0.159	±0.5	1.164	0.361	3.0			
2.442	-0.327	±0.5	1.041	0.325	3.0			
2.480	0.898	±0.5	1.380	0.435	3.0			

So standalone SAR measurements are not required.