RF Exposure Evaluation

FCC ID: 2AG2ATON9608

1. Client Information

Applicant	:	Shenzhen Fast Precision Technologies Co. Ltd.
Address	:	4th Floor, Yangtian Building, Chuangye 2nd Road, Baoan 72 District, Shenzhen, China.
Manufacturer	:	Shenzhen Fast Precision Technologies Co. Ltd.
Address	:	4th Floor, Yangtian Building, Chuangye 2nd Road, Baoan 72 District, Shenzhen, China.

2. General Description of EUT

EUT Name	:	BLE Anti-lost Keychain	
Models No.	:	TON9608 TON9608* (* represents 2-digit characters, and each character can be anything ranging from 0 to 9, A to Z, symbols like "-" or "space" and different product models. And * is targeted at different sales territories, sales regions, sales methods, varied client groups, different market positioning and different product colors, and won't affect the product safety and electromagnetic compatibility)	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	BLE: 2402~2480MHz
		Number of Channel:	BLE: 40 Channels
		Max Peak Output Power:	GFSK: 0.752 dBm
		Antenna Gain:	2 dBi Ceramic Antenna
		Modulation Type:	1Mbps(GFSK)
Power Supply	:	DC Supply by the Battery.	
Power Rating	:	DC 3.0 V by Button 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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

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	0.752	0±1	1	1.259	0.390	**3.0**
2.442	-0.228	0±1	1	1.259	0.393	**3.0**
2.480	0.047	0±1	1	1.259	0.397	**3.0**

So standalone SAR measurements are not required.

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