Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE153675

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RF Exposure Evaluation FCC ID: 2AGGR-MK

1. Client Information

: Shenzhen Rivers Technology Co., Limited **Applicant**

: A#1611, Zhantao Technology Building, Longhua New District, **Address**

Shenzhen, China

Shenzhen Rivers Technology Co., Limited Manufacturer

Address A#1611, Zhantao Technology Building, Longhua New District,

Shenzhen, China

2. General Description of EUT

EUT Name	-3	Keyboard								
Models No.		MK75+, MK75, MK75F, MK80, MK85, MK85F, MK90, MK90F, MK95, MK95F, MK100								
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:	Bluetooth 4.0(BLE): 2402MHz~2480MHz							
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels							
		RF Output Power:	-0.696 dBm Conducted Power(Module 1) -0.727 dBm Conducted Power(Module 2) -0.633 dBm Conducted Power(Module 3)							
		Antenna Gain:	1.6 dBi PCB Antenna							
		Modulation Type:	GFSK							
10:33	1	Bit Rate of Transmitter:	1Mbps(GFSK)							
Power Supply	Ŀ	DC Supply by the AA Battery.								
Power Rating	1	DC 4*1.5V by AA 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.

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 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:

BLE Mode (GFSK)														
Frequency (MHz)	Worst Conducted Power (dBm) BLE Module No.			Turn-up Power Tolerance (dB)			Max power of tune up tolerance (dbm)			Max power of tune up tolerance	Calculation Value	Threshold Value		
				BLE Module No.		BLE Module No.								
	1	2	3	1	2	3	1	2	3	(mw)				
2402	-0.696	-0.727	-0.633	0±1	0±1	0±1	1	1	1	3.777	1.171			
2442	-2.975	-3.001	-2.906	-3±1	-3±1	-3±1	-2	-2	-2	1.893	0.592	3.0		
2480	-5.002	-5.028	-4.949	-5±1	-5±1	-5±1	-4	-4	-4	1.194	0.376			

So standalone SAR measurements are not required.

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