RF Exposure Evaluation
FCC ID: 2AGGR-B10

1. Client Information

Applicant	:	Shenzhen Rivers Technology Co.,Ltd
Address	:	Block B,1St, 6 floor,Taiming Industrial Park, Youlian Road, Minzhi Street, Longhua District, Shenzhen China Code:518131
Manufacturer	:	Shenzhen Rivers Technology Co.,Ltd
Address	:	Block B,1St, 6 floor,Taiming Industrial Park, Youlian Road, Minzhi Street, Longhua District, Shenzhen China Code:518131

2. General Description of EUT

EUT Name	:	Wireless Touch Keyboard	
Models No.	:	B10 Pro, B11 Pro, B12 Pro, B13 Pro, B14 Pro, B15 Pro, B16 Pro, B17 Pro, B18 Pro, B19 Pro, B20 Pro	
Model Different	:	All these models are the same PCB, layout and electrical circuit, the only difference is Silk screen layout	
Product Description	:	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
		RF Output Power:	BLE:-2.375dBm (Max)
		Antenna Gain:	2 dBi PCB Antenna
Power Rating	:	Input:DC 5V 1.5A DC 3.7V 4000mAh by Li-ion battery	
Software Version	:	V10	
Hardware Version	:	V02	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark		The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

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)]*[$\sqrt{f_{(GHz)}}$] ≤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	-2.375	-2±1	-1	0.794	0.246	**3.0**
2.442	-3.475	-3±1	-2	0.631	0.197	**3.0**
2.480	-4.861	-4±1	-3	0.501	0.158	**3.0**

So standalone SAR measurements are not required.

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