Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE155541

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RF Exposure Evaluation FCC ID: 2AGGR-B45

1. Client Information

Applicant : Shenzhen Rivers Technology Co.,Limited

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

Shenzhen, China

Manufacturer : Shenzhen Rivers Technology Co., Limited

Address : 6F, First Building, Taiming Industrial Park, New Longhua District,

Shenzhen, China

2. General Description of EUT

EUT Name	ė	Keyboard					
Models No.	1	B45, B46, B47, B48, B49, B50					
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 2.1+EDR&4.0(BLE): 2402MHz~2480MHz				
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels Bluetooth 2.1+EDR: 79 channels				
		RF Output Power:	BLE: -3.099 dBm Conducted Power(Module 1) -3.138 dBm Conducted Power(Module 2) -3.142 dBm Conducted Power(Module 3) Bluetooth 2.1+EDR: -1.543dBm(\pi /4-DQPSK)				
		Modulation Type:	GFSK 1Mbps(1 Mbps&BLE) π/4-DQPSK(2 Mbps)				
Power Supply	:	DC Voltage Supply from USB Port. DC Supply by the Battery.					
Power Rating		DC 5.0 V from the USB Cable. DC 3.7V by 4000mAh Li-ion Battery.					
Connecting I/O Port(S)	:	Please refer to the User's Manual					

Note: The EUT has four bluetooth Module, the three module is N51822(BLE) for keyboard, the other Module is JL(BT 2.1+EDR) for play music.

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:

				_ 6	BL	E Mode	(GFSK)				COLUMN TO SERVICE SERV
Frequency (MHz)	Worst Conducted Power (dBm) BLE Module No.			Turn-up Power Tolerance (dB) BLE Module No.			Max power of tune up tolerance (dbm)		Max power of tune up tolerance	Calculation Value	Threshold Value	
							BLE Module No.					
	1	2	3	1	2	3	1	2	3	(mw)		
2402	-3.099	-3.138	-3.142	-3±1	-3±1	-3±1	-2	-2	-2	1.893	0.587	
2442	-5.592	-5.629	-5.623	-5±1	-5±1	-5±1	-4	-4	-4	1.194	0.373	3.0
2480	-7.613	-7.647	-7.653	-7±1	-7±1	-7±1	-6	-6	-6	0.753	0.237	

113	COURS !	ВІ	uetooth 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	-2.436	-2±1	-1	0.794	0.246	3.0	
2.441	-2.480	-2±1	-1	0.794	0.248	3.0	
2.480	-2.677	-2±1	-1	0.794	0.250	3.0	
The state of the s	TO SEE	Blue	tooth Mode (π/4-DQF	PSK)	(1)	11.77	
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	-1.543	-1±1	0	1.000	0.310	3.0	
2.441	-1.583	-1±1	0	1.000	0.312	3.0	
2.480	-1.787	-1±1	0	1.000	0.315	3.0	

So standalone SAR measurements are not required.

----END OF REPORT----