Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE155591

Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AMVU-QLYX

1. Client Information

Applicant: Shenzhen lotton Technologies Co., Ltd.

Address: Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong

Kong Cooperation Zone, Shenzhen, P.R. China

Manufacturer : Shenzhen lotton Technologies Co., Ltd.

Address : Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong

Kong Cooperation Zone, Shenzhen, P.R. China

2. General Description of EUT

EUT Name	•	QLYX					
Models No.	1	QLX_IO_1.1.5, QLX_IO_*****(** represents 1-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:	: Bluetooth V4.0(BLE): 2402~2480 MHz				
		RF Output Power:	BLE: -2.106dBm				
		Antenna Gain:	1.8dBi Ceramic Antenna				
Power Supply	:	DC Voltage supplied by Button battery					
Power Rating	÷	DC 3.0V by Button 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

Tel: +86 75526509301 Fax: +86 75526509195



Report No.: TB-MPE155591

Page: 2 of 3

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



Report No.: TB-MPE155591

Page: 3 of 3

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	Threshol d Value			
2.402	-2.677	-2±1	-1	0.794	0.246	3.0			
2.442	-2.106	-2±1	-1	0.794	0.248	3.0			
2.480	-2.366	-2±1	-1	0.794	0.250	3.0			

So standalone SAR measurements are not required.

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