Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE169731

Page: 1 of 3

RF Exposure Evaluation FCC ID:2AS2T-XG-23

1. Client Information

Applicant		Shenzhen Xintu Century Technology Co.,Ltd		
Address	:	5th Floor, Building A1, Anle Industrial Park, No.172, Hangcheng Avenue, Xixiang Street, Baoan District, Shenzhen, Guangdong, China		
Manufacturer	:	Shenzhen Xintu Century Technology Co.,Ltd		
Address		5th Floor, Building A1, Anle Industrial Park, No.172, Hangcheng Avenue Xixiang Street, Baoan District, Shenzhen, Guangdong, China		

2. General Description of EUT

EUT Name	:	TWS wireless earphone		
Models No.	:	XG-23,XG-21		
Model Difference	:	All these models are the same PCB, layout and electrical circuit, Only the outer color is different.		
TO STATE OF THE PARTY OF THE PA		Operation Frequency:	Bluetooth V5.0: 2402~2480 MHz	
		Number of Channel: Bluetooth: 79 Channels See Note 2		
Product	Ŕ	RF Output Power:	wer: Bluetooth: 1.690dBm(8-DPSK)	
Description		Antenna Gain:	0.8dBi Chip Antenna	
	5	Modulation Type:	GFSK (1 Mbps) Pi/4-DQPSK (2 Mbps) 8-DPSK (3 Mbps)	
Power Supply	:	DC Voltage supplied by USB Cable DC Voltage supplied by Li-ion batter		
Power Rating	?	DC5V 0.5A by AC/DC Adapter. DC 3.7V by 50mAh Li-ion battery of The headset. DC 3.7V by 400mAh Li-ion battery of Charging dock.		
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



Report No.: TB-MPE169731

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-MPE169731

Page: 3 of 3

2. Calculation:

Test separation	on: 5mm					
MADE	١٠	Blu	etooth Mode (GFSK)		WHO IS	
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	Thres hold Value
2.402	0.797	0±1	1	1.258925412	0.3902263	3.0
2.441	0.591	0±1	1	1.258925412	0.3933815	3.0
2.480	-0.259	0±1	1	1.258925412	0.3965115	3.0
CEID	6411	Blueto	oth Mode (Pi/4-DQPSK)	1.83	- (
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	Thres hold Value
2.402	1.279	1±1	2	1.584893192	0.4912658	3.0
2.441	1.258	1±1	2	1.584893192	0.4952379	3.0
2.480	0.128	1±1	2	1.584893192	0.4991785	3.0
	CITI'S	Blue	tooth Mode (8-DPSK)			
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	Thres hold Value
2.402	1.690	1±1	2	1.584893192	0.4912658	3.0
2.442	1.569	1±1	2	1.584893192	0.4952379	3.0
2.480	0.441	1±1	2	1.584893192	0.4991785	3.0

Test separation: 5mm				
The worst RF Exposure Evaluation				
Worst Calculation Value	Threshold Value			
0.499	3.0			

The worst RF Exposure Evaluation is 0.499 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----