Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE146949

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RF Exposure Evaluation FCC ID: 2ABHA0007

1. Client Information

: NINGBO CSTAR IMP&EXP CO., LTD **Applicant**

Address Floor 4, Building E, No. 655-90, Qiming Road, Yinzhou Investment &

Innovation Center, Ningbo, China

Manufacturer ShenZhen C-Star Electronic Tech. co., Ltd

Address 2, 3/F, Building B, No. 2 Bada Industrial Park, Yongfu Road, Heping

Community, Fuyong Town, Baoan District, Shenzhen, China

2. General Description of EUT

EUT Name		Bluetooth headset				
Models No.	:	EL68, CT15211				
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:2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels			
		Max Peak Output Power:	Bluetooth: 4.80 dBm(π/4-DQPSK)			
		Antenna Gain:	0 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps)			
Power Supply		DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.				
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by Li-ion 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

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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 v05r02.

- (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:

al P		Bluetooth Mod	e (GFSK)	A COLOR	THE PERSON
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.22	±0.5	2.355	0.730	3.0
2.441	4.49	±0.5	3.155	0.986	3.0
2.480	4.51	±0.5	3.170	0.998	3.0
	The same of the sa	Bluetooth Mode (1/4-DQPSK)	W. W.	
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.47	±0.5	2.495	0.773	3.0
2.441	4.65	±0.5	3.273	1.023	3.0
2.480	4.80	±0.5	3.388	1.067	3.0

So standalone SAR measurements are not required.