Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE159942

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RF Exposure Evaluation FCC ID: 2AJ7Z-BS0143

1. Client Information

Applicant	:	Ningbo Xinze Electric Appliance Co., Ltd		
Address		Room 1002, Aolisai Haoru Building, No. 468 Taikang Middle Road, South Commercial Area, Yinzhou, Ningbo, China		
Manufacturer	:	Ningbo Xinze Electric Appliance Co., Ltd		
Address	Ŀ	Floor, Building A, Yicheng Industrial Tiegang Village, Baoan, Shenzhen, China		

2. General Description of EUT

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EUT Name	:	Wireless Speaker				
Models No.	V	BS0143, FL9010, FL3163, BS0147, BS0148, BS0149, BS0150, BS0151, BS0152, BS0153				
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance color.				
Product Description	:	Operation Frequency:	Bluetooth 4.2(BT): 2402MHz~2480MHz			
		RF Output Power:	BLE:1.443dBm			
		Antenna Gain:	2dBi PCB Antenna			
Power Supply	6	DC Voltage Supply from USB Port. DC Voltage supplied by Li-ion battery.				
Power Rating	:	DC 5.0V 500mAh by USB cable DC 3.7V by 2000mAh Li-ion battery				
Software Version		N/A				
Hardware Version		N/A				
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.

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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:

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	1.443	1±0.5	1.5	1.413	0.438	3.0		
2.442	-1.122	-1±0.5	-0.5	0.891	0.278	3.0		
2.480	-1.023	-1±0.5	-0.5	0.891	0.281	3.0		

Test separation: 5mm						
The worst RF Exposure Evaluation						
Bluetooth Mode	Total Calculation Value	Threshold Value				
BLE	0.438	3.0				

The worst RF Exposure Evaluation is 0.438 / cm2 < limit 3.0, So standalone SAR measurements are not required.

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