Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE160682

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RF Exposure Evaluation FCC ID: 2AFIH-BND503

1. Client Information

Applicant	•	Brand New Days Limited		
Address		Unit B, 6/F Tong Yuen Factory Building, 505 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong		
Manufacturer	:	Shenzhen Casun Technologies Co., Ltd.		
Address	Ŀ	4/F, B Building, No.8 Eastern Zone, Shangxue Technology Park, Bantian, Shenzhen, China		

2. General Description of EUT

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EUT Name		Bluetooth Speaker						
Models No.		BND503						
Model Difference		N/A						
Product Description		Operation Frequency:	Bluetooth 4.2(BT): 2402MHz~2480MHz					
		RF Output Power:	GFSK: -0.116dBm π /4-DQPSK: -0.109dBm 8-DPSK: -0.111dBm					
		Antenna Gain:	0.9dBi PCB Antenna					
Power Supply	1	DC Voltage Supply from USB Port. DC Voltage supplied by Li-ion battery.						
Power Rating	3	DC 5.0V 1A by USB cable DC 3.7V by 600mAh Li-ion battery						
Software Version		010_lxw_STYX_5856T28_JS_CHILI -SPEAKER_0xa7c4a1						
Hardware Version	1	V1.2						
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 separatio	n: 5mm)	MALL
		В	luetooth 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	-0.116	-1±1	0	1.000	0.310	3.0
2.441	-0.154	-1±1	0	1.000	0.312	3.0
2.480	-0.147	-1±1	0	1.000	0.315	3.0
		Blue	tooth Mode (π/4-DQPS	K)		
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	-0.109	0±1	0	1.000	0.310	3.0
2.441	-0.168	0±1	0	1.000	0.312	3.0
2.480	-0.144	0±1	0	1.000	0.315	3.0
HILL		Blu	uetooth Mode (8-DPSK)	The same of	MARIE	
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	-0.111	0±1	0	1.000	0.310	3.0
2.441	-0.171	0±1	0	1.000	0.312	3.0
2.480	-0.157	0±1	0	1.000	0.315	3.0

Test separation: 5mm					
The worst RF Exposure Evaluation					
Worst Calculation Value	Threshold Value				
0.315	3.0				

The worst RF Exposure Evaluation is 0.315 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT----