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RF Exposure Evaluation FCC ID: 2AXWO-M303

1. Client Information

Applicant		Doors Korea Co., Ltd	
Address	2	1F, 27, Mangu-ro 81-gil, Jungnang-gu, Seoul, South Korea	
Manufacturer		DONGGUAN TUCCI ELECTRONIC TECHNOLOGY CO., LTD	
Address	Address : 4th FL, A BLD, No 7, Longtian Road, Qinghutou Community, Tango Town, Dongguan City, China		

2. General Description of EUT

EUT Name	:	Miracle,m M303 Pro Wireless portable speaker				
Model(s) No.	2	M303, M320, M330, M300				
Model Different	:	All these models are the same in the same PCB, layout and circuit, the only difference is the model and color.				
Product Description		Operation Frequency:	Bluetooth 4.2(BT): 2402~2480 MHz			
		Number of Channel: Bluetooth 4.2(BT): 79 channels				
		RF Output Power: Bluetooth: -0.271dBm (π /4-DQPSk				
		Antenna Gain: 0.58dBi PCB Antenna				
		Modulation Type:	GFSK, π/4-DQPSK			
		Bit Rate of Transmitter:	1/2Mbps			
Power Supply	:	Input: DC 5V/2A DC7.4V by 2000mAh Li-ion battery				
Software Version	:	V1.3				
Hardware Version		V1.0				

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

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

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[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leqslant 7.5.0 for 10-g SAR

2. Calculation:

		BI	uetooth 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	-1.186	-1±1	0.0	1.000	0.310	3.0
2.441	-0.924	0±1	1.0	1.259	0.393	3.0
2.480	-1.137	-1±1	0.0	1.000	0.315	3.0
6	n's s	Bluet	tooth Mode (π/4-DQPS	К)		81
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	-0.461	0±1	1.0	1.259	0.390	3.0
2.441	-0.271	0±1	1.0	1.259	0.393	3.0
2.480	-0.444	0±1	1.0	1.259	0.397	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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