

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AMVU-IPOP

1. Client Information

Applicant	: Shenzhen lotton Technologies Co., Ltd.					
Address	: Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China					
Manufacturer	urer : Shenzhen lotton Technologies Co., Ltd.					
Address	: Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China					

2. General Description of EUT

EUT Name	•	Portable Wireless Speaker				
Models No.		iPop, iPop * (* represents 2-digit characters, and each character can be anything ranging from 0 to 9, A to Z ,symbols like "- "or "space" and different product models. And * is targeted at different sales territories, sales regions, sales methods, varied client groups, different market positioning and different product colors, and won't affect the product safety and electromagnetic compatibility)				
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 V4.2: 2402~2480 MHz			
		RF Output Power:	Bluetooth: 4.340dBm(8-DPSK)			
		Antenna Gain:	1.8dBi FPC Antenna			
Power Supply	:	DC Voltage supplied by USB cable DC Voltage supplied by Li-ion battery				
Power Rating	•					
Connecting I/O Port(S)	i					

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

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- 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)]*[$\sqrt{f_{(GHz)}}$] $\,\leqslant$ 3.0 for 1-g SAR
 - [(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:

Test separatio	n: 5mm							
2	ONU CAR	BI	uetooth Mode (GFSK)	Caller -	1	RULE		
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	Threshol d Value		
2.402	2.533	2±1	3	1.995	0.618	3.0		
2.441	2.853	2±1	3	1.995	0.623	3.0		
2.480	2.852	2±1	3	1.995	0.628	3.0		
Bluetooth Mode (π /4-DQPSK)								
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	Threshol d Value		
2.402	3.880	4±1	5	3.162	0.980	3.0		
2.441	4.139	4±1	5	3.162	0.988	3.0		
2.480	4.118	4±1	5	3.162	0.996	3.0		
Call	Canno							
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	Threshol d Value		
2.402	4.044	4±1	5	3.162	0.980	3.0		
2.441	4.340	4±1	5	3.162	0.988	3.0		
2.480	4.315	4±1	5	3.162	0.996	3.0		

So standalone SAR measurements are not required.

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