

Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AMVU-IQUTE-M3

1. Client Information

Applicant	: Shenzhen lotton Technologies Co.,Ltd.			
Address : Qianhai Complex A201,Qianwan Road 1, Qianhai Shenzhen-Hor Coperation Zone,Shenzhen, China		Qianhai Complex A201,Qianwan Road 1, Qianhai Shenzhen-Hongkong Coperation Zone,Shenzhen, China		
Manufacturer	nufacturer : Shenzhen lotton Technologies Co.,Ltd.			
Address	Address : Qianhai Complex A201,Qianwan Road 1, Qianhai Shenzhen-Ho Coperation Zone,Shenzhen, China			

2. General Description of EUT

EUT Name		True wireless stereo earbuds			
Models No.	:	iQute M3,iQute *			
Model Difference		* 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. All these models are identical in the same PCB layout and electrical circuit, 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.			
and a		Operation Frequency:	Bluetooth: 2402~2480 MHz		
Product Description		RF Output Power:	Bluetooth: 0.932 dBm(Max) BLE: 2.419 dBm(Max)		
		Antenna Gain:	2dBi Chip Antenna		
Power Rating		DC 5.0V by USB. DC 3.7V by 0.185Wh Li-ion battery.			
Software Version		N/A			
Hardware Version		N/A			
Connecting I/O Port(S)	Ś	Please refer to the User's Manual			

re test information about the EUT please refer the RI

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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)]*[$\sqrt{f_{(GHz)}}$] \leq 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:

		BI	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	Threshol d Value
2.402	-0.162	0±1	1	1.26	0.390	3.0
2.441	-1.985	0±1	1	1.26	0.393	3.0
2.480	0.747	0±1	1	1.26	0.397	3.0
1000	1197	Bluet	tooth Mode (Pi/4-DQPSI	K)	11	
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	-1.584	-1±1	0	1.00	0.310	3.0
2.441	-2.958	-2±1	-1	0.79	0.248	3.0
2.480	0.932	0±1	1	1.26	0.397	3.0
	13	Blu	uetooth Mode (8-DPSK)			CID S
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	-1.589	-1±1	0	1.00	0.310	3.0
2.442	-2.035	-2±1	-1	0.79	0.248	3.0
2.480	0.869	0±1	1	1.26	0.397	3.0

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	Threshol d Value
2.402	2.419	2±1	3	1.995	0.618	3.0
2.442	2.266	2±1	3	1.995	0.623	3.0
2.480	1.514	2±1	3	1.995	0.628	3.0

Test separation: 5mm	CUD3				
The worst RF Exposure Evaluation					
Worst Calculation Value	Threshold Value				
0.628	3.0				

The worst RF Exposure Evaluation is $0.628 / cm^2 < limit 3.0$, So standalone SAR measurements are not required.

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