# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE164084

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# RF Exposure Evaluation FCC ID: 2ASCK-2

## 1. Client Information

Applicant	:	Dongguan Green Power One Co.,Ltd		
Address	:	No.26, Hongyun Street, Qingxi Town, Dongguan City, Guangdong province, China		
Manufacturer	: Dongguan Green Power One Co.,Ltd			
Address	ddress : No.26, Hongyun Street, Qingxi Town, Dongguan City, Guangdong province, China			

2. General Description of EUT

<b>EUT Name</b>	:	True Wireless Earbuds with Charging Case			
Models No.	:	ARBT10,PTBT16,GBH02			
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is the difference in packing and model.			
Will be		Operation Frequency:	Bluetooth: 2402~2480 MHz		
Product Description	÷	RF Output Power:	Bluetooth: 1.073 dBm(Max) BLE: -0.813 dBm(Max)		
		Antenna Gain:	-0.58dBi PCB Antenna		
Power Rating	e	DC 5.0V by USB. DC 3.7V by 65mAh Li-ion battery.			
<b>Software Version</b>	1	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:

		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	0.968	1±1	2	1.585	0.491	3.0
2.441	1.073	1±1	2	1.585	0.495	3.0
2.480	0.678	1±1	2	1.585	0.499	3.0
THE PARTY OF THE P	_ GHI	Bluet	tooth Mode (Pi/4-DQPS	K)	133	
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	0.454	0±1	1	1.259	0.390	3.0
2.441	0.730	0±1	1	1.259	0.393	3.0
2.480	0.334	0±1	1	1.259	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	-1.282	-1±1	0	1.000	0.310	3.0
2.442	-0.813	-1±1	0	1.000	0.313	3.0
2.480	-1.281	-1±1	0	1.000	0.315	3.0

Test separation: 5mm				
The worst RF Exposure Evaluation				
Worst Calculation Value	Threshold Value			
0.499	3.0			

The worst RF Exposure Evaluation is 0.499 / cm2 < limit 3.0, So standalone SAR measurements are not required.

----END OF REPORT-----