RF Exposure Evaluation

FCC ID: 2AUD4-V3

1. Client Information

Applicant : Xiamen xingboda electronic technology co., LTD

Address : 520 xinglin yuandong road, jimei district, xiamen city, China

Manufacturer : Xiamen xingboda electronic technology co., LTD

Address : 520 xinglin yuandong road, jimei district, xiamen city, China

2. General Description of EUT

EUT Name	:	Bluetooth Module	
Models No.	:	Carbon Flyer, Carbon Flyer V3	
Model Difference	:	All models are in the same PCB layout interior structure and electrical circuits, the only difference is the model.	
Product Description	:	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz
		Modulation Type:	BLE: GFSK
Power Supply	:	DC 3.7V for battery or DC 5V for PC USB port. (This report only shows the worst mode for PC USB port power.) The PC adapter : Input: 100-240V,50-60Hz,1.8A Output: 20V-3.25A	
Software Version	:	VERSION 2	
Hardware Version	:	CARBON FLYER BT PCB V3	
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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
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	Threshold Value
2.402	-1.675	-1±1	0	1	0.30997	**3.0**
2.442	-0.788	-1±1	0	1	0.31247	**3.0**
2.480	-0.443	-1±1	0	1	0.31496	**3.0**

So standalone SAR measurements are not required.

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