

RF Exposure Evaluation

FCC ID: 2AFXGG-ABH2

1. Client Information

Applicant : M&S Accessory Network
Address : 10 West 33rd Street, Suite 718, New York, NY 10001, United States
Manufacturer : Hong Kong Fanco Electronic Company Ltd.
Address : 2F,10 Blk, Zhengzhong Industrial Park, Qiaotou Community, Fuyong Town, Bao'an, Shenzhen, China

2. General Description of EUT

EUT Name	:	GabbaGoods NeckBeats Bluetooth Stereo Headsets	
Models No.	:	GG-ABH2	
Model difference	:	N/A	
Product Description	:	Operation Frequency: Bluetooth:2402~2480MHz	
		Number of Channel:	Bluetooth:79 Channels
	:	Max Peak Output Power:	Bluetooth: 3.66 dBm(GFSK)
		Antenna Gain:	0 dBi PCB Antenna
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.	
Power Rating	:	DC 5.0V by USB cable. DC 3.7V 110mAh Li-ion Battery.	
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.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v05r02.

(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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 3.0 \text{ for 1-g SAR}}$$

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

2.

Calculation:

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.550	±0.5	2.541	0.788	3.0
2.441	3.660	±0.5	2.606	0.814	3.0
2.480	3.580	±0.5	2.559	0.806	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.200	±0.5	2.344	0.727	3.0
2.441	3.080	±0.5	2.280	0.713	3.0
2.480	3.220	±0.5	2.355	0.742	3.0
Bluetooth Mode (8-DPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.320	±0.5	1.914	0.593	3.0
2.441	2.480	±0.5	1.986	0.621	3.0
2.480	2.340	±0.5	1.923	0.606	3.0

So standalone SAR measurements are not required.