



Report No: C150720Z01-RP1 FCC ID: 2AB3MDH1300-001T Date of Issue: August 24, 2014

RADIO FREQUENCY EXPOSURE

LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §15.247(b)(4) and §1.1307(b)(1) of this chapter.

Conducted Power Results

Mode	Channel	Frequency(MHz)	PeakConducted Output Power (dBm)
GFSK	00	2406	10.40
	15	2440	10.70
	30	2475	10.22

Manufacturing tolerance

GFSK (Peak)				
Channel	Channel 00	Channel 15	Channel 30	
Target (dBm)	10.0	10.0	10.0	
Tolerance ±(dB)	1.0	1.0	1.0	



Compliance Certification(Shenzhen) Services Inc.

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EUT Specification

EUT	2.4GHz Digital Wireless Headphone Transmitter		
	☐ WLAN: 2.412GHz ~ 2.462GHz		
	☐ WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz		
Frequency band	☐ WLAN: 5.745GHz ~ 5825GHz		
(Operating)	Bluetooth: 2.402GHz~ 2.480GHz		
	☐ FHSS: 2.406GHz~ 2.472GHz		
	Others _		
	Portable (<20cm separation)		
Device category	Mobile (>20cm separation)		
	Others		
	Occupational/Controlled exposure $(S = 5mW/cm^2)$		
Exposure classification	General Population/Uncontrolled exposure		
	$(S=1mW/cm^2)$		
	Single antenna		
	Multiple antennas		
Antenna diversity	∑ Tx diversity		
	Rx diversity		
	☐ Tx/Rx diversity		
Max. output power	11dBm (12.59mW)		
Antenna gain (Max)	-2dBi (Numeric gain:1.58)		
Evaluation applied	MPE Evaluation		
Evaluation applied	SAR Evaluation		
Note:			
. The maximum output power(including turn tolerance) is <u>11dBm (15.59mW)</u> and			
maximum antenna gain is -2dBi			
. For mobile or fixed location transmitters, no SAR consideration applied. The minimum			
separation generally be used is at least 20 cm, even if the calculations indicate that the			
MPF distance would be lesser			

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TEST RESULT

No non-compliance noted.

Calculation

Given
$$S = \frac{P \times G}{4\Pi d^2}$$

Equation 1

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power Density in mW/cm^2$

Maximum Permissible Exposure

EUT Output Power=12.59mW

Numeric antenna gain=1.58

Substituting the MPE safe distance using d=20 cm into *Equation 1*:

Fields

The power density $S = 12.59 \times 1/(4 \Pi \times 400) \text{ cm}^2 = 25.04 * \text{e}^{-4} \text{mW/cm}^2$

(For mobile or fixed location transmitters, the maximum power density is $1.0 \, mW/cm^2$ even if the calculation indicates that the power density would be larger.)