



Report No: C151015Z01-RP1_MPE

FCC ID: CCRXP800

Date of Issue: November 20, 2015

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

Bluetooth

Mode	Channel	Frequency(MHz)	Average Conducted Output Power (dBm)
GFSK	00	2402	-4.94
	39	2441	-3.91
	78	2480	-3.38
8DPSK	00	2402	-8.35
	39	2441	-7.12
	78	2480	-6.45
π/4DQPSK	00	2402	-5.23
	39	2441	-4.72
	78	2480	-6.23

Manufacturing tolerance

Bluetooth

GFSK (Peak)				
Channel	Channel 00	Channel 39	Channel 78	
Target (dBm)	-4.0	-3.0	-3.0	
Tolerance ±(dB)	1.0	1.0	1.0	
8DPSK (Peak)				
Channel	Channel 00	Channel 39	Channel 78	
Target (dBm)	-8.0	-7.0	-6.0	
Tolerance ±(dB)	1.0	1.0	1.0	
π/4DQPSK (Peak)				
Channel	Channel 00	Channel 39	Channel 78	
Target (dBm)	-5.0	-4.0	-6.0	
Tolerance ±(dB)	1.0	1.0	1.0	



Compliance Certification Services (Shenzhen) Inc.

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EUT Specification

EUT	PORTABLE PA SYSTEM
Frequency band (Operating)	 □ WLAN: 2.412GHz ~ 2.462GHz □ WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz □ WLAN: 5.745GHz ~ 5825GHz □ Bluetooth: 2.402GHz~ 2.480GHz □ Others _
Device category	Portable (<20cm separation) Mobile (>20cm separation) Others
Exposure classification	Occupational/Controlled exposure $(S = 5mW/cm^2)$ General Population/Uncontrolled exposure $(S=1mW/cm^2)$
Antenna diversity	☐ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	-1.94dBm (0.64mW)
Antenna gain (Max)	1dBi (Numeric gain:1.26)
Evaluation applied	✓ MPE Evaluation✓ SAR Evaluation
maximum antenna gain is 3 2. For mobile or fixed location	transmitters, no SAR consideration applied. The minimum d is at least 20 cm, even if the calculations indicate that the



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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=0.64.mW

Numeric antenna gain=1.0

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

Fields

The power density $S = 0.64 \times 1.0 / (4 \Pi \times 400) \text{ cm}^2 = 1.27 * e^{-4} \text{mW/cm}^2$

(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.)