



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)	Average Conducted Output Power (dBm)
GFSK	00	2402	-6.77
	39	2441	-4.44
	78	2480	-1.98
$\pi/4$ -DQPSK	00	2402	-7.82
	39	2441	-5.54
	78	2480	-3.78
8DPSK	00	2402	-7.83
	39	2441	-5.86
	78	2480	-2.11

Manufacturing tolerance

GFSK (Average)			
Channel	Channel 00	Channel 39	Channel 78
Target (dBm)	-6.0	-4.0	-1.0
Tolerance \pm (dB)	1.0	1.0	1.0
$\pi/4$ -DQPSK (Average)			
Channel	Channel 00	Channel 39	Channel 78
Target (dBm)	-7.0	-5.0	-3.0
Tolerance \pm (dB)	1.0	1.0	1.0
8DPSK (Average)			
Channel	Channel 00	Channel 39	Channel 78
Target (dBm)	-7.0	-5.0	-2.0
Tolerance \pm (dB)	1.0	1.0	1.0



Compliance Certification Services (Shenzhen) Inc.

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EUT Specification

EUT	Micro Bluetooth® Stereo with CD Player and FM Radio
Frequency band (Operating)	<input type="checkbox"/> WLAN: 2.412GHz ~ 2.462GHz <input type="checkbox"/> WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz <input type="checkbox"/> WLAN: 5.745GHz ~ 5825GHz <input checked="" type="checkbox"/> Bluetooth: 2.402GHz~ 2.480GHz <input type="checkbox"/> Others _
Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Others _____
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure ($S = 5mW/cm^2$) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure ($S=1mW/cm^2$)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Max. output power	0dBm (1mW)
Antenna gain (Max)	0dBi (Numeric gain:1.00)
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation <input type="checkbox"/> SAR Evaluation

Note:

1. The maximum output power(including turn tolerance) is 0dBm (1mW) and maximum antenna gain is 1dBi
2. 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 MPE distance would be lesser.



TEST RESULT

No non-compliance noted.

Calculation

Given $S = \frac{P \times G}{4\pi d^2}$ ***Equation 1***

Where $d = \text{distance in cm}$

$P = \text{Power in mW}$

$G = \text{Numeric antenna gain}$

$S = \text{Power Density in mW/cm}^2$

Maximum Permissible Exposure

EUT Output Power=1mW

Numeric antenna gain=1.00

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

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The power density $S = 1 \times 1.00 / (4\pi \times 400) \text{ cm}^2 = 1.99\text{e}^{-4} \text{ mW/cm}^2$

(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.)