



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.

EUT Specification

EUT	BMD-100
Model	BMD-100
Frequency Band (Operating)	2402.0 MHz~2480.0 MHz
	■Portable (<20cm separation)
Device Category	☐Mobile (>20cm separation)
	☐ Others
	☐ Occupational/Controlled exposure (S = 5mW/cm2)
Exposure Classification	■ General Population/Uncontrolled exposure
	(S=1mW/cm2)
	■ Single antenna
	☐ Multiple antennas
Antenna Diversity	☐ Tx diversity
	☐ Rx diversity
	☐ Tx/Rx diversity
Max. Output Power	-1.26dBm
Antenna Gain (Max)	Gain=1dBi (Numeric gain:1.26)
Evaluation Applied	■ MPE Evaluation
	☐ SAR Evaluation
Note:	

Note:

- 1. The maximum mix output power is -1.26dBm (0.748mW) with 1 numeric antenna gain.
- 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.

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Report No.: CGZ3141230-01482-EFI

FCC ID:2AA9B02 IC:12208A-02 CENTRE OF TESTING SERVICE





Calculation

Given

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

(Equation 1)

P = Power in mW

Where d = distance in cm

G = Numeric antenna gain

S = Power Density in mW / cm²

Maximum Permissible Exposure

EUT Output Power=0.748mW

Numeric antenna gain=1

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

Yields

The power density $S = 0.748 \times 1.26 / (4 \Pi \times 400) \text{ cm}^2 = 0.00019 \text{mW/cm}^2$ (For mobile or fixed location transmitters, the maximum power density is 1.0 mW / cm² even if the calculation indicates that the power density would be larger.)

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