

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	Receiver
Model	SPMAR9320T
Frequency Band (Operating)	2404.0 MHz ~2476.0 MHz
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. Mix Output Power	19.74dBm
Antenna Gain (Max)	2.0dBi (Numeric gain:1.58)
Evaluation Applied	☒ MPE Evaluation ☐ SAR Evaluation

Note:

1. The maximum mix output power is 19.74dBm (94.19mW) with 1.58 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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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 / cm²

Maximum Permissible Exposure

EUT Output Power=94.19mW

Numeric antenna gain=1.58

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

Yields

The power density $S = 94.19 \times 1.58 / (4\pi \times 400) \text{ cm}^2 = 0.0296 \text{ mW/cm}^2$

(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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