

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	NVR
Model	K9604-W, K9608-W, K9608-2W, K9804-W, K9808-W
Frequency Band (Operating)	WLAN 802.11b/g/n(20) :2412.0 MHz~2462.0 MHz
Device Category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others
Exposure Classification	☐ Occupational/Controlled exposure (S = 5mW/cm2) ☒ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna Diversity	☐ Single antenna ☒ Multiple antennas ☒ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
WiFi Max. Output Power	20.34dBm
Antenna Gain (Max)	Gain=5dBi (Numeric gain:3.16)
Evaluation Applied	☒ MPE Evaluation ☐ SAR Evaluation
Note: 1. The maximum output power is 20.34dBm (108.14mW) with 3.16 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

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

Given (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=108.14 mW

Numeric antenna gain=3.16

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

Yields

The power density $S = 108.14 \times 3.16 / (4\pi \times 400) \text{ cm}^2 = 0.068 \text{ mW/cm}^2$

(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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