

Maximum Permissible Exposure (MPE)

EUT INFORMATION

EUT	Verizon Global Router
Frequency band (Operating)	2.412 GHz ~ 2.472 GHz
Antenna diversity	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	22.51 dBm (178.14 mW)
Antenna gain (Max)	5 dBi

TEST RESULT

The modular use shall be at least 20cm distance away from human body.

MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \cdot P \cdot G}}{d}$$

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = E^2 / 3770$$

Combine these two formulas can be changed to

$$P_d = (30 \cdot P \cdot G) / (3770 \cdot d^2)$$

Note:

1. "E" means Electric field (V/m).
2. "P" means Peak RF output power (W).
3. "G" means EUT Antenna numeric gain (numeric).
4. "d" means the minimum mobile separation distance is 0.2m between radiator and human body.

ANT	Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna (dBm)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)
R	802.11b	01	2412	17.00	0.0499	<1
		06	2437	16.25	0.0419	<1
		11	2472	15.73	0.0372	<1
	802.11g	01	2412	18.94	0.0779	<1
		06	2437	18.04	0.0633	<1
		11	2472	17.38	0.0544	<1
L	802.11b	01	2412	17.53	0.0563	<1
		06	2437	16.95	0.0493	<1
		11	2472	16.46	0.0440	<1
	802.11g	01	2412	19.84	0.0959	<1
		06	2437	19.08	0.0805	<1
		11	2472	18.62	0.0724	<1
R+L	802.11n HT20	01	2412	22.51	0.1773	<1
		06	2437	21.44	0.1386	<1
		11	2472	20.90	0.1224	<1
	802.11n HT40	03	2422	21.41	0.1376	<1
		06	2437	20.87	0.1215	<1
		09	2452	20.40	0.1091	<1