



Maximum Permissible Exposure (MPE)

EUT INFORMATION

FCC ID	2AOKZNV720XX
EUT	ADSL2+/VDSL2 Wi-Fi Modem Router
Frequency band (Operating)	2.412 GHz ~ 2.462 GHz
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
Max. output power	18.09 dBm (0.064417 W)
Antenna gain (Max)	2 dBi

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

MPE Calculation Method:

$$E(\text{V/m}) = \frac{\sqrt{30 \times P \times G}}{d} \text{Power Density} = Pd(\text{mW/cm}^2) = \frac{E^2}{3770}$$

Combine these two formulas can be changed to:

$$Pd = \frac{30 \times P \times G}{3770 \times d^2}$$

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.



Antenna Gain

Antenna Gain: The maximum Gain is 2 dBi.

Modulation Type	Channel	Frequency (MHz)	Output Power to Antenna(dBm)	Tune up Power (dBm)	Power Density (mW/cm ²)	Limit of PowerDensity (mW/cm ²)
802.11b	01	2412	17.23	18	0.019895	< 1
	06	2437	17.74	18	0.019895	
	11	2462	18.09	19	0.025047	
802.11g	01	2412	16.31	17	0.015803	< 1
	06	2437	16.76	17	0.015803	
	11	2462	17.20	18	0.019895	
802.11n HT20	01	2412	16.65	17	0.015803	< 1
	06	2437	17.01	18	0.019895	
	11	2462	17.36	18	0.019895	
802.11nHT40	03	2422	15.83	16	0.012553	< 1
	06	2437	16.19	17	0.015803	
	09	2452	16.44	17	0.015803	