Maximum Permissible Exposure

Applicable Standard

According to §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Remark: 1)

For 2.4G WIFI: The maximum output power for antenna 0 is 23.18dBm (207.97mW) at 2437MHz, 5dBi antenna gain(with 3.16 numeric antenna gain.)

The maximum output power for antenna 1 is 24.19dBm (262.42mW) at 2422MHz, 5dBi antenna gain(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 20cm, even if the calculation indicate that the MPE distance would be lesser.

Substituting the MPE safe distance using d=20cm into above equation.

Yields: S=0.000199*P*G

MPE ANTO:

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	
2.4G WIFI	207.97	3.16	0.130780	

MPE ANT1:

Mode	Power(mW)	numeric antenna gain	Power density (mW/cm²)	
2.4G WIFI	262.42	3.16	0.165020	

Total MPE:

Maximum Emissions Level								
Mode	MPE ANTO	MPE ANT1	Total MPE	Limit (mW/cm²)	Result			
2.4G WIFI	0.130780	0.165020	0.295800	1.0	PASS			