Maximum Permissible Exposure

Applicable Standard According to §1.1307(b)(5), 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.

For 5G WIFI

1) The maximum output power for antenna 0 is 26.81dBm (479.73mW) at 5785MHz, (with 2 numeric antenna gain.)
2) The maximum output power for antenna 1 is 25.02dBm (317.69mW) at 5745MHz, (with 2 numeric antenna gain.)

Maximum Permissible Exposure

Antenna 0 output power=479.73mW，

Antenna 1 output power=317.69mW，

Numeric Antenna gain=2 Substituting the MPE safe distance using d=20cm into above equation.

Yields:

$S=0.000199*P*G$

Where P=*Power in mW* G=*Numeric antenna gain* S=*Power density in* mW/cm^2

Total Power density=0.19+0.13=0.32 mW/cm2

(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.)