

FCC ID: 2AHB3-A43

Applied procedures / limit

According to FCC §15.247(i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Strength (E) Strength (H) Power De | | Averaging Time E ² , H ² or S (minutes) |
|--------------------------|---|------------------------------------|------------|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | F/300 | 6 |
| 1500-100,000 | | | 5 | 6 |

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Note: *f* is frequency in MHz

* = Power density limit is applicable at frequencies greater than 100 MHz

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) | |
|--------------------------|---|---|---|--|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 | |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | |
| 300-1500 | | | F/1500 | 30 | |
| 1500-100,000 | | | 1.0 | 30 | |

Limits for General Population / Uncontrolled Exposure

Note: f = frequency in MHz

* = Plane-wave equivalent power density



MPE PREDICTION

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01 $S=PG/4\pi R^2$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna, R=0.2m

TEST RESULTS

| | Tune up Produce power | Maximum peak output power (dBm) | Output power to antenna (mW) | Antenna Gain (numeric) | Power Density (S) (mW/ cm2) | Limit (mW / cm2) | Result |
|------|-----------------------------|---|---------------------------------------|------------------------------|---|----------------------------|--------|
| WIFI | 14±1 | 15 | 31.62 | 1.585(2dBi) | 0.00997 | 1 | Pass |

For the max result : $0.00997 \le 1.0$, compliance with FCC's RF Exposure