

FCC ID: 2AKBP-AESL37

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) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | 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 | |

Limits for Occupational / Controlled Exposure

Note: *f* is frequency in MHz

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

Limits for General Population / Uncontrolled Exposure

| 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 | |

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 |
|--------------|-----------------------------|--|---------------------------------------|------------------------------|-----------------------------------|-----------------------|--------|
| 2.4G WiFi | 13±1 | 14 | 25.12 | 1.26 (1dBi) | 0.006297 | 1 | Pass |

Conclusion:

For the max result \leq 1.0, compliance with FCC's RF Exposure