1. TEST METHODOLOGY

All calculations were made in accordance with FCC OET Bulletin 65 Edition 97-01

2. FCC RULES

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) | | |
|---|-------------------------------------|-------------------------------------|--|-----------------------------|--|--|
| (A) Limits for Occupational/Controlled Exposures | | | | | | |
| 0.3–3.0 3.0–30 30–300 300–1500 1500–100,000 | 614 1842/f 61.4 | 1.63 4.89/f 0.163 | *(100) *(900/f²) 1.0 f/300 5 | 6 6 6 6 | | |
| (B) Limits | for General Populati | on/Uncontrolled Exp | posure | | | |
| 0.3–1.34 | 614 824/f | 1.63 2.19/f | *(100) *(180/f²) | 30 30 | | |

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)-Continued

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) |
|------------------------------------|-------------------------------------|-------------------------------------|---------------------------|-----------------------------|
| 30–300 300–1500 1500–100,000 | 27.5 | 0.073 | 0.2 f/1500 1.0 | 30 30 30 |

f = frequency in MHz

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* = Plane-wave equivalent power density
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their
employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.
Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for
exposure or can not exercise control over their exposure.

3.POWER DENSITY

Power density is given by:

 $S = EIRP / (4 * Pi * D^2)$

Where

S = Power density in mW/cm^2

EIRP = Equivalent Isotropic Radiated Power in mW

D = Separation distance in cm

Power density in units of mW/cm² is converted to units of W/m² by multiplying by 10.

DISTANCE

Distance is given by:

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RF EXPOSURE REPORT

D = SQRT (EIRP / (4 * Pi * S))

Where

D = Separation distance in cm

EIRP = Equivalent Isotropic Radiated Power in mW

 $S = Power density in mW/cm^2$

3. RF EXPOSURE RESULTS

MAX OUTPUT POWER: 17.59 dBm

The directional gain: 8dBi

Distance :20cm

 $362 \text{mW}/4 \text{X} 3.14 \text{X} 400 = 0.072 < 1 \text{mW/cm}^2$

Result: Pass