11 FCC §1.1307(b), §27.52 & §2.1091 - RF EXPOSURE INFORMATION

11.1 Applicable Standard

According to FCC §1.1310 and §2.1091 (Mobile Devices) RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	[1] (100)	30
1.34-30	824/f	2.19/f	[1] ($180/f^2$)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz
[1] = Plane-wave equivalent power density

11.2 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

Model: TRI2526+

Maximum peak output power at antenna input terminal (dBm):	22.92
Maximum peak output power at antenna input terminal (mW):	195.884
Prediction distance (cm):	150
Prediction frequency (MHz):	2510
Antenna Gain, typical (dBi):	18
Maximum Antenna Gain (numeric):	63.10
Power density at predication frequency and distance (mW/cm^2):	0.0437
MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	1.0

Model: TR2526+

Maximum peak output power at antenna input terminal (dBm):	22.92
Maximum peak output power at antenna input terminal (mW):	195.884
Prediction distance (cm):	150
Prediction frequency (MHz):	2510
Antenna Gain, typical (dBi):	24
Maximum Antenna Gain (numeric):	251.19
Power density at predication frequency and distance (mW/cm^2):	0.1741
MPE limit for uncontrolled exposure at predication frequency (mW/cm^2):	1.0

Test Result

To Compliant with the FCC RF Exposure requirements in section 1.1037, a minimum separation distance of 150 cm is required between the antenna and all persons.