TRANZEO
EMC LABS INC

RF Exposure Evaluation

TR-900 Series

Wireless Network Adapter
Tranzeo Wireless Technologies Inc.

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RF Exposure Evaluation

FCC 1.1310 states the criteria listed in the table below shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Section 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Section 2.1093 of this chapter. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation".

Frequency Range (MHZ)	Electric Field Strength (V/m)	Magnetic Field Strength (A/M)	Power Density (mW/cm^2)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

EUT Operating Condition

The maximum antenna gain is 24 dBi at 2.4 GHz and 32 dBi at 5.8 Ghz.

RF exposure evaluation distance calculation

EUT with 14 dBi antenna

Freq (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
2412	13.95	24	22.4
2437	22.6	24	60.3
2462	13.82	24	22.4
5745	16.85	32	78
5785	16.81	32	77
5825	17.14	32	81

As shown above, the minimum distance where the MPE limit is reached is 81 cm for the EUT.