TRANZEO
EMC LABS INC

RF Exposure Evaluation

TR-Multi Series

Wireless Network Adapter
Tranzeo Wireless Technologies Inc.

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A.1 RF Exposure Evaluation

FCC 1.1310 states that 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)	Averaging Time (min)
(A) Limits for Occupational/Controlled Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/Uncontrolled Exposures				
300-1500	--	--	F/1500	30
1500-100,000	--	--	1	30

EUT Operating Condition

Maximum EIRP is obtained with the 2.4 GHz 24 dBi grid and the 5.8 Ghz 32 dBi dish antenna.

RF Exposure Evaluation Distance Calculation

EUT with 32 dBi antenna

Chan	Freq (MHz)	Output Power to Antenna (dBm)	Output Power to Antenna (mW)	Antenna Gain (dBi)	r (cm)
1	2412	22.31	170	24	58.3
6	2437	21.52	142	24	53.3
11	2462	21.16	131	24	51.2
149	5745	15.65	37	32	50.978
157	5785	16.61	46	32	56.935
11	5825	16.89	49	32	58.800

As shown above, the minimum distance where the MPE limit was reached was 59 cm for the EUT.