



RF Exposure Evaluation

FCCID: QRF- QSFNYON3

Wireless Network Adapter

Tranzeo Wireless Technologies Inc.

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Report No.: 040407.1

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A handwritten signature in black ink, appearing to read 'Cam Finnigan'.

Cam Finnigan
EMC Engineer

A handwritten signature in black ink, appearing to read 'Sam Zahed'.

Sam Zahed
EMC Coordinator

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 20 dBi at 5.2 and 5.4 GHz.

RF exposure evaluation distance calculation

EUT with 20 dBi antenna

Mode OFDM/ Channel BW = 20MHz			
Freq (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
5260	8.54	20	7.5
5300	8.87	20	8.0
5320	8.70	20	7.5
5500	8.66	20	7.5
5600	9.76	20	8.5
5700	9.60	20	8.5

As shown above, the minimum distance where the MPE limit is reached is 8.5 cm for the EUT.