

RF Exposure Evaluation
Kingfisher 40W 1900MHz CDMA SCPA
Product # 100.0195.001
Unity Wireless Systems Corp.

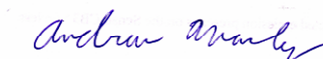
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Labs: 19473 Fraser Way, Pitt Meadows, BC, Canada V3Y 2V4



Bruce Balston
EMC Engineer



Andrew Marles
EMC Coordinator

A.1 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

Test Method

The MPE for this device was calculated as a function of the output power and nominal antenna gain.

EUT Operating Condition

The maximum output power of the EUT is 46.5 dBm as tested. An antenna gain of 6 dBi is assumed.

RF exposure distance calculation

Frequency (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
1931	46.62	6	120.60
1988	46.20	6	114.90

As shown above, the minimum distance where the MPE limit is reached is 69 cm for this EUT. Note that final MPE compliance for this device is determined at the time of licensi