

AP-900NA RF Exposure Exhibit

HVIN/PMN: AP-900NA
47CFR 1.1307, RSS-102 Issue 6

Measurements & Calculations

HVIN: AP-900NA		Test Number: 240115					
Max Average Transmitter Output (dBuV/m)		92.9					
Transmitter Output power (mW)		0.585					
Transmitter Output power (W)		0.0006					
Output Power for % duty Cycle operation (Watts)		100		Antenna Gain (dBi)		0	
Output Power for 100% duty Cycle operation (Watts)		0.0006		Antenna Gain (Numeric)		1.00	
Tx Frequency (MHz)	915	Calculation power (Watts)	0.0006	dBd + 2.17 = dBi	dBi to dBd	2.17	
				Antenna Gain (dBd)		-2.17	
Cable Loss (dB)	0.0	Adjusted Power (dBm)	-2.33	Antenna minus cable (dBi)		0.00	
				Antenna Gain (Numeric)		1.00	
Calculated ERP (mw)		0.355		EIRP = Po(dBm) + Gain (dB)			
Calculated EIRP (mw)		0.585		Radiated (EIRP) dBm		-2.328	
Power density (S) mW/cm² = $\frac{\text{EIRP}}{4 \pi r^2}$				ERP = EIRP - 2.17 dB			
				Radiated (ERP) dBm		-4.498	

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Conclusion

The AP-900NA meets RF exposure requirements for both FCC and Industry Canada.

FCC:

This device is exempt from RF exposure testing as described in KDB 447498 D04 v01, paragraph 2.1.2 (1-mW Test Exemption). As described in 47 CFR 1.1307(b)(3)(i)(A), the AP-900NA testing has shown that the maximum time-averaged power is less than 1mW thereby making it exempt.

The maximum time-averaged power of the AP-900NA was found to be 0.585 mW at 915 MHz (the channel with the highest output power the device produced).

Industry Canada:

In addition, per RSS-102 Issue 6, section 6.3, this device is exempt from SAR evaluation based upon its maximum time-averaged power output of 0.585 mW at 915 MHz (the channel with the highest output power the device produced).