

Client: Ubiquiti Networks	Job Number: J86893
Model: AirFiber (24GHz)	T-Log Number: T86927
	Account Manager: Michelle Kim
Contact: Jennifer Sanchez	
Standard: FCC 15.249, EN 300 440	Class: N/A

Maximum Permissible Exposure

Test Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091 and RSS-102.

Date of Test: 4/24/2012
Test Engineer: David Bare

General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 20cm separation:	No
If not, required separation distance (in cm):	107

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.



Radio Test Data

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Use: General
 Antenna: 33dBi

Field strength using 1 MHz BW = 127 dBuV/m Thus the EIRP power density/MHz = 127-95.3 or 31.7 dBm.
 Total power is therefore power density +10*log(signal BW)

Freq. MHz	Power Density EIRP		99% BW MHz	Calculated Total EIRP	EIRP mW	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
	dBm	mW*					
24100	31.7	1479.1	96.64	51.6	142941.03	28.437	1.000
24200	31.5	1412.5	96.64	51.4	136507.63	27.157	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm ²	MPE Limit mW/cm ²	Distance where S <= MPE Limit
24100	28.437	1.000	106.7cm
24200	27.157	1.000	104.2cm