EMC Test Data

Client:	Ubiquiti Networks	Job Number:	J92977
Model:	AirFiber 5GHz	T-Log Number:	T92983
		Project Manager:	Christine Krebill
Contact:	Alex Pavlos	Project Coordinator:	Irene Rademacher
Standard:	FCC 15.247	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 9/10/2013

Test Engineer: Mark Hill

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):	124.6

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.

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Use: General
Antenna: 2x2, 23dBi Dish antenna

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm^2	MPE Limit at 20 cm mW/cm^2
5752	29.6	912.0	0	23	29.6	181970.1	36.2	1.000
5800	29.9	977.2	0	23	29.9	194984.5	38.8	1.000
5823	29.3	851.1	0	23	29.3	169824.4	33.8	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
5752	36.202	1.000	120.3cm
5800	38.791	1.000	124.6cm
5823	33.785	1.000	116.3cm