

Client:	Ruckus Wireless	Job Number:	J73710
Model:	Dalmatian	T-Log Number:	T73801
Contact:	Craig Owens	Account Manager:	Dean Eriksen
Standard:	FCC 15.247/RSS-210	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: 3/17/2009

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:	Yes/No
Worst Case Power Density (W/m^2):	2.34

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: 3dBi

802.11 b/g worse case

Freq. MHz	EUT Power		Cable 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
	dBm	mW*						
2412	27.6	575.4	0	3	27.6	1148.15	0.228	1.000
2437	27.7	588.8	0	3	27.7	1174.90	0.234	1.000
2462	27.7	588.8	0	3	27.7	1174.90	0.234	1.000

802.11n HT20 worse case - 2.4 GHz band

Freq. MHz	EUT Power		Cable 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
	dBm	mW*						
2412	23.9	245.5	0	3	23.9	489.78	0.097	1.000
2437	25.8	380.2	0	3	25.8	758.58	0.151	1.000
2462	24.9	309.0	0	3	24.9	616.60	0.123	1.000

802.11n HT40 worse case - 2.4 GHz Band

Freq. MHz	EUT Power		Cable 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
	dBm	mW*						
2422	23.5	223.9	0	3	23.5	446.68	0.089	1.000
2437	25.7	371.5	0	3	25.7	741.31	0.147	1.000
2452	25.7	371.5	0	3	25.7	741.31	0.147	1.000

802.11a - 5.7 GHz band

Freq. MHz	EUT Power		Cable 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
	dBm	mW*						
5745	24.4	275.4	0	3	24.4	549.54	0.109	1.000
5785	23.9	245.5	0	3	23.9	489.78	0.097	1.000
5825	24.0	251.2	0	3	24.0	501.19	0.100	1.000

802.11n HT20 worse case - 5.7 GHz band

Freq. MHz	EUT Power		Cable 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
	dBm	mW*						
5745	24.4	275.4	0	3	24.4	549.54	0.109	1.000
5785	24.3	269.2	0	3	24.3	537.03	0.107	1.000
5825	24.0	251.2	0	3	24.0	501.19	0.100	1.000

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802.11n HT40 worse case - 5.7 GHz Band

Freq. MHz	EUT Power		Cable Loss	Ant Gain	Power at Ant	EIRP	Power Density (S) at 20 cm	MPE Limit at 20 cm
	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
5755	23.6	229.1	0	3	23.6	457.09	0.091	1.000
5785	23.4	218.8	0	3	23.4	436.52	0.087	1.000
5805	23.5	223.9	0	3	23.5	446.68	0.089	1.000