

Client:	Ruckus Wireless	Job Number:	J68610
Model:	Retriever module	T-Log Number:	T68973
		Account Manager:	Dean Eriksen
Contact:	Craig Owens		
Standard:	FCC Part 15.247/RSS-210	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: 12/17/2007

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:	Yes/No
If not, required separation distance (in cm):	Yes

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.



EMC Test Data

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Use: General
 Antenna: 9dBi

802.11b mode

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	22.9	195.0	0	9	22.9	1548.82	0.308	1.000
2437	23.3	213.8	0	9	23.3	1698.24	0.338	1.000
2462	23.4	218.8	0	9	23.4	1737.80	0.346	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
2412	0.308	1.000	11.1cm
2437	0.338	1.000	11.6cm
2462	0.346	1.000	11.8cm

802.11g/n 20MHz mode

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	23.8	240.5	0	9	23.8	1909.99	0.380	1.000
2437	23.9	246.1	0	9	23.9	1954.47	0.389	1.000
2462	23.8	240.5	0	9	23.8	1909.99	0.380	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
2412	0.380	1.000	12.3cm
2437	0.389	1.000	12.5cm
2462	0.380	1.000	12.3cm



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802.11n 40MHz mode

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	23.3	211.9	0	9	23.3	1682.79	0.335	1.000
2437	23.3	214.3	0	9	23.3	1702.28	0.339	1.000
2452	23.1	204.7	0	9	23.1	1625.66	0.323	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
2422	0.335	1.000	11.6cm
2437	0.339	1.000	11.6cm
2452	0.323	1.000	11.4cm