

Client:	Summit Data Communications	Job Number:	J76855
Model:	802.11abgn Module	T-Log Number:	T76863
		Account Manager:	Christine Krebill
Contact:	Ron Seide		
Standard:	FCC 15.407, 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: 1/22/2010

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
Worse Case Power Density (mW/cm^2):	0.273

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 for 2.4GHz (effective 6dBi for MIMO Modes), 6.5dBi for 5GHz (effective 9.5dBi for MIMO modes)

Only worse case frequency from original filing

802.11a

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*						
5180	14.3	27.1	0	6.5	14.3	121.06	0.024	1.000
5300	17.8	60.3	0	6.5	17.8	269.15	0.054	1.000
5700	18.2	65.3	0	6.5	18.2	291.74	0.058	1.000

802.11n20

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*						
5180	13.2	20.8	0	9.5	13.2	185.35	0.037	1.000
5260	19.2	83.0	0	9.5	19.2	739.61	0.147	1.000
5700	20.2	105.4	0	9.5	20.2	939.72	0.187	1.000

802.11n40

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*						
5190	7.0	5.0	0	9.5	7.0	44.67	0.009	1.000
5270	20.3	105.9	0	9.5	20.3	944.06	0.188	1.000
5550	21.9	153.8	0	9.5	21.9	1370.88	0.273	1.000