

Client:	Summit Data Communications	Job Number:	J77268
Model:	SDC-MSD30AG	T-Log Number:	T77317
		Account Manager:	Christine Krebill
Contact:	Jerry Pohmurski		
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: 3/1/2010

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
Power Density, S in $mW/cm^2$ @ 20cm	0.049

### 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: 3 dBi for 2.4 GHz, 6.5 dBi for 5.7 GHz

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 <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>
	dBm	mW*						
2412	17.4	55.0	0	3	17.4	109.65	0.022	1.000
2437	17.3	53.7	0	3	17.3	107.15	0.021	1.000
2462	16.7	46.8	0	3	16.7	93.33	0.019	1.000

802.11g 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 <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>
	dBm	mW*						
2412	20.6	114.8	0	3	20.6	229.09	0.046	1.000
2437	20.9	123.0	0	3	20.9	245.47	0.049	1.000
2462	20.7	117.5	0	3	20.7	234.42	0.047	1.000

802.11a mode - 5.7 GHz

Freq. MHz	EUT Power		Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm <sup>2</sup>	MPE Limit at 20 cm mW/cm <sup>2</sup>
	dBm	mW*						
5745	10.5	11.2	0	6.5	10.5	50.12	0.010	1.000
5785	11.5	14.1	0	6.5	11.5	63.10	0.013	1.000
5805	11.5	14.1	0	6.5	11.5	63.10	0.013	1.000