

EMC Test Data

	An 2/22-3 company		
Client:	Summit Data Communications	Job Number:	J78403
Model:	SDC-WB40 (1x1 802.11abg + BT 2.1)	T-Log Number:	T80878
	SDC-VVB40 (1X1 602.11aby + B1 2.1)	Account Manager:	Christine Krebill
Contact:	Ron Seide		
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: 2/14/2012 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/m²), 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:	VAC
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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.

SDC-WB ² Ron Seide FCC 15.2 General 3dBi EU Pow dBm 14.5 15.2	eata Com 10 (1x1 8 e 47/RSS-2	munications 02.11abg +		Power		Job Number: T-Log Number: Account Manager: Class:	T80878 Christine Krebill N/A
Ron Seidd FCC 15.2 General 3dBi EU Pow dBm 14.5 15.2	T //er /mW*	210 Cable Loss	Ant			Account Manager: Class:	Christine Krebill N/A
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General 3dBi EU Pow dBm 14.5 15.2	47/RSS-2 T /er mW*	Cable Loss					
General 3dBi EU Pow dBm 14.5 15.2	T ver mW*	Cable Loss					
EU Pow dBm 14.5 15.2	ver mW*	Loss				I p p 11 (0)	
Pow dBm 14.5 15.2	ver mW*	Loss				I D D 'I (0)	
Pow dBm 14.5 15.2	ver mW*	Loss					MDELimeit
dBm 14.5 15.2	mW*		Gairi	at Ant	EIRP	Power Density (S) at 20 cm	MPE Limit at 20 cm
14.5 15.2		uD	dBi	dBm	mW	mW/cm^2	mW/cm^2
15.2	41.0	0	3	14.5	55.59	0.011	1.000
	33.1	0	3	15.2	66.07	0.011	1.000
14.4	27.5	0	3	14.4	54.95	0.011	1.000
				1 _ 1			
					EIDD		MPE Limit
							at 20 cm
							mW/cm^2
							1.000 1.000
							1.000
EUT Power		Cable Loss	Ant Gain	Power at Ant	EIRP	Power Density (S) at 20 cm	MPE Limit at 20 cm
				1			mW/cm^2
							1.000
			3				1.000 1.000
0.0	0.0		U	0.0	17.70	0.004	1.000
EII	т	Cablo	Ant	Dower		Power Density (S)	MDE Limit
EU		Cable	Ant Gain	Power	FIRD	Power Density (S)	MPE Limit
Pov	/er	Loss	Gain	at Ant	EIRP mW	at 20 cm	at 20 cm
Pov dBm	ver mW*	Loss dB	Gain dBi	at Ant dBm	mW	at 20 cm mW/cm^2	at 20 cm mW/cm^2
Pov	/er	Loss	Gain	at Ant		at 20 cm	at 20 cm
	Pow dBm 11.9 12.6 10.4	11.9 15.5 12.6 18.2 10.4 11.0 EUT Power dBm mW* 7.9 6.2 8.9 7.8	Power dBm Loss dB 11.9 15.5 0 12.6 18.2 0 10.4 11.0 0 EUT Power dBm Cable Loss dBm 4Bm mW* dB 7.9 6.2 0 8.9 7.8 0	Power dBm Loss dBi Gain dBi 11.9 15.5 0 3 12.6 18.2 0 3 10.4 11.0 0 3 EUT Power Loss Gain dBm mW* dB dBi 4Bi 4Bi 7.9 6.2 0 3 8.9 7.8 0 3	Power dBm Loss dBi dain dBi at Ant dBi 11.9 15.5 0 3 11.9 12.6 18.2 0 3 12.6 10.4 11.0 0 3 10.4 EUT Power Loss Gain at Ant dBm Cable Ant Gain at Ant dBm Power at Ant dBm dBm 7.9 6.2 0 3 7.9 8.9 7.8 0 3 8.9	Power dBm Loss dBi Gain dBi at Ant dBm EIRP mW 11.9 15.5 0 3 11.9 30.90 12.6 18.2 0 3 12.6 36.31 10.4 11.0 0 3 10.4 21.88 EUT Power Loss Gain dBm Gain at Ant dBm EIRP dBm EIRP dBm MW 7.9 6.2 0 3 7.9 12.30 8.9 7.8 0 3 8.9 15.49	Power dBm Loss dBm Gain dBm at Ant dBm EIRP mW at 20 cm mW/cm^2 11.9 15.5 0 3 11.9 30.90 0.006 12.6 18.2 0 3 12.6 36.31 0.007 10.4 11.0 0 3 10.4 21.88 0.004 EUT Power Loss Gain dBm mW* Loss Gain dBm mW at 20 cm mW/cm^2 at 20 cm mW/cm^2 at 20 cm mW/cm^2 7.9 6.2 0 3 7.9 12.30 0.002 8.9 7.8 0 3 8.9 15.49 0.003

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JNII Bands 302.11a	S EU	ıт	Cable	Ant	Dower		Dower Density (C)	MPE Limit
From	Pov			Gain	Power at Ant	EIRP	Power Density (S) at 20 cm	at 20 cm
Freq. MHz	dBm	mW*	Loss dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
5180	9.8	9.5	<u>ив</u> 0	6.5	9.8	42.46	0.008	1.000
5200	10.0	9.9	0	6.5	10.0	44.36	0.006	1.000
5240	10.8	11.9	0	6.5	10.0	53.09	0.009	1.000
5260	12.8	19.0	0	6.5	12.8	84.92	0.017	1.000
5300	14.2	26.0	0	6.5	14.2	116.14	0.017	1.000
5320	10.5	11.2	0	6.5	10.5	50.12	0.023	1.000
			0	6.5	15.0		0.010	1.000
5500 5580	15.0	31.3				139.96 99.54	0.028	1.000
5700	13.5 8.1	22.3 6.4	0	6.5 6.5	13.5 8.1	28.64	0.020	1.000
02.11n20	EU	IT I	Cable	Ant	Power		Power Density (S)	MPE Limit
Freg.	Pov		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
5180	8.6	7.3	0 0	6.5	8.6	32.58	0.006	1.000
5200	8.9	7.7	0	6.5	8.9	34.28	0.000	1.000
5240	9.7	9.3	0	6.5	9.7	41.50	0.007	1.000
5260	11.9	15.6	0	6.5	11.9	69.82	0.008	1.000
5300	13.2	20.7	0	6.5	13.2	92.68	0.014	1.000
5320	8.5	7.1	0	6.5	8.5	31.62	0.016	1.000
5500	13.3	21.4	0	6.5	13.3	95.50	0.019	1.000
5580	12.8	19.0	0	6.5	12.8	84.72	0.019	1.000
5700	10.7	11.7	0	6.5	10.7	52.36	0.017	1.000