

Client:	Motorola	Job Number:	J87247
Model:	VAP2500	T-Log Number:	T87276
		Account Manager:	Christine Krebill
Contact:	Rob Linebarger		
Standard:	FCC	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: 8/3/2012

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/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
If not, required separation distance (in cm):	-

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: 2dBi

802.11a operation

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	16.6	45.7	0	2	16.6	72.44	0.014	1.000
5200	16.3	42.7	0	2	16.3	67.61	0.013	1.000
5240	16.3	42.7	0	2	16.3	67.61	0.013	1.000
5260	20.6	114.8	0	2	20.6	181.97	0.036	1.000
5300	20.7	117.5	0	2	20.7	186.21	0.037	1.000
5320	21.0	125.9	0	2	21.0	199.53	0.040	1.000
5500	18.2	66.1	0	2	18.2	104.71	0.021	1.000
5580	22.1	162.2	0	2	22.1	257.04	0.051	1.000
5700	17.0	50.1	0	2	17.0	79.43	0.016	1.000
5745	28.9	776.2	0	2	28.9	1230.27	0.245	1.000
5785	28.8	758.6	0	2	28.8	1202.26	0.239	1.000
5825	28.9	776.2	0	2	28.9	1230.27	0.245	1.000

802.11n20 operation

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	16.7	46.8	0	2	16.7	74.13	0.015	1.000
5200	16.5	44.7	0	2	16.5	70.79	0.014	1.000
5240	16.2	41.7	0	2	16.2	66.07	0.013	1.000
5260	20.8	120.2	0	2	20.8	190.55	0.038	1.000
5300	20.9	123.0	0	2	20.9	194.98	0.039	1.000
5320	20.3	107.2	0	2	20.3	169.82	0.034	1.000
5500	17.1	51.3	0	2	17.1	81.28	0.016	1.000
5580	23.1	204.2	0	2	23.1	323.59	0.064	1.000
5700	16.5	44.7	0	2	16.5	70.79	0.014	1.000
5745	28.8	758.6	0	2	28.8	1202.26	0.239	1.000
5785	28.8	758.6	0	2	28.8	1202.26	0.239	1.000
5825	28.8	758.6	0	2	28.8	1202.26	0.239	1.000



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802.11n40 operation

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	16.3	42.7	0	2	16.3	67.61	0.013	1.000
5230	16.1	40.7	0	2	16.1	64.57	0.013	1.000
5270	20.3	107.2	0	2	20.3	169.82	0.034	1.000
5310	16.8	47.9	0	2	16.8	75.86	0.015	1.000
5510	15.4	34.7	0	2	15.4	54.95	0.011	1.000
5510	21.7	147.9	0	2	21.7	234.42	0.047	1.000
5670	20.1	102.3	0	2	20.1	162.18	0.032	1.000
5755	28.3	676.1	0	2	28.3	1071.52	0.213	1.000
5795	28.5	707.9	0	2	28.5	1122.02	0.223	1.000