



Engineering and Testing for EMC and Safety Compliance



Fcc 15.249 Radiated Test Data

for Model:

RE920

for

Resolution Engineering

RTL Project Number 2010107

Test Engineer: Jon Wilson

Radiated Test Data - OATS 1

Test Date: July 08, 2010

Work Order: 2010107

Customer Reference: na

Model: RE920 908.4MHz

Name: Jon Wilson

Limit/Distance: FCC B/3m

Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pass/Fail
908.415	Peak	H	43.6	44.3	87.9	94.0	-6.1	Pass
1,816.830	Peak	V	37.7	14.1	51.8	74.0	-22.2	Pass
2,725.275	Peak	V	37.0	-7.1	29.9	74.0	-44.1	Pass
3,633.700	Peak	H	32.0	-4.9	27.1	74.0	-46.9	Pass
4,542.125	Peak	H	30.0	0.4	30.4	74.0	-43.6	Pass
5,450.550	Peak	H	30.0	2.7	32.7	74.0	-41.3	Pass
6,358.975	Peak	V	29.6	4.1	33.7	74.0	-40.3	Pass
7,267.400	Peak	V	29.3	5.4	34.7	74.0	-39.3	Pass
8,175.825	Peak	V	28.7	11.9	40.6	74.0	-33.4	Pass
9,084.250	Peak	V	27.6	12.3	39.9	74.0	-34.1	Pass

Notes:

Device was tested through its three orthogonal planes (X, Y, Z axis) as shown in the photographs beginning on p. 3. The test antenna was raised and lowered from 1-4 meters and polarized. These steps were taken in order to find the maximum emission level at each frequency.

Radiated Emissions Test Equipment

Part	Manufacturer	Model	Serial Number	RTL Bar Code	Calibration Due Date
Amplifier (20 MHz-2 GHz)	Rhein Tech Laboratories, Inc.	PR-1040	900905	900905	4/10/2011
Bilog Periodic Antenna (25 MHz-2 GHz)	Schaffner Chase	CBL6112	2099	900791	12/12/2010
EMI Receiver RF Section (9 KHz-6.5 GHz)	Hewlett Packard	85462A	3325A00159	900913	6/8/2011
RF Filter Section (100 KHz-6.5 GHz)	Hewlett Packard	85460A	3330A00107	900914	6/8/2011
Spectrum Analyzer	Hewlett Packard	8596EM	3826A00144	901215	11/23/2010
Amplifier (1 GHz – 26.4 GHz)	Hewlett Packard	8449B OPT H02	3008A00505	900932	2/22/2011
Horn Antenna, 2.0-4.0 GHz	EMCO	3161-02	9804-1044	900772	6/13/2011
Horn Antenna, 4.0-8.2 GHz	EMCO	3161-03	9508-1020	900321	6/13/2011
Horn Antenna, 8.2-12.4 GHz	EMCO	3161-07	9605-1054	900323	6/13/2011
Emissions Testing Software	Rhein Tech Laboratories, Inc.	Automated Emission Tester	Rev. 14.0.2	N/A	N/A

X-Axis



Y-Axis



Z-Axis

