



Engineering and Testing for EMC and Safety Compliance



Accredited under A2LA Testing Certificate # 2653.01

**Radiated Test Data**  
**for Model:**  
**Solar Driveway Sensor**  
**for**  
**Resolution Engineering**

**RTL Project Number 2010022**

**Test Engineer: Jon Wilson**

# Radiated Test Data - OATS 1

Test Date: March 3, 2010  
 Work Order: 2010022  
 Customer Reference: na  
 Model: Solar Driveway Sensor  
 Name: Jon Wilson  
 Limit/Distance: FCC B/3m

Temperature: 35°F Humidity: 51%										
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (deg)	Antenna Height (m)	Analyzer Reading (dBuV)	Site Correction Factor (dB/m)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pass/Fail
434.024	Pk	V	90	1.5	65.4	32.9	98.3	100.8	-2.5	Pass
867.986	Pk	V	90	1.0	67.9	0.8	68.7	80.8	-12.1	Pass
1302.016	Pk	H	90	1.0	62.7	8.4	71.1	80.8	-9.7	Pass
1735.979	Pk	V	90	1.0	61.7	13.1	74.8	80.8	-6.0	Pass
2169.835	Pk	H	90	1.0	59.1	6.0	65.1	80.8	-15.7	Pass
2603.785	Pk	H	90	1.0	61.3	6.9	68.2	80.8	-12.6	Pass
3037.760	Pk	V	90	1.0	55.7	5.2	60.9	80.8	-19.9	Pass
3471.735	Pk	H	90	1.0	59.9	5.3	65.2	80.8	-15.6	Pass
3905.710	Pk	H	90	1.0	61.9	6.9	68.8	80.8	-12.0	Pass
4339.035	Pk	H	90	1.0	58.7	10.4	69.1	80.8	-11.7	Pass

## 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	4/10/2010
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	6/8/2010
RF Filter Section (100 KHz-6.5 GHz)	Hewlett Packard	85460A	3330A00107	900914	6/8/2010
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	6/13/2010
Horn Antenna, 4.0-8.2 GHz	EMCO	3161-03	9508-1020	900321	6/13/2010
Emissions Testing Software	Rhein Tech Laboratories, Inc.	Automated Emission Tester	Rev. 14.0.2	N/A	N/A