

**COMPLIANCE WORLDWIDE INC.
TEST REPORT 247-07**

In Accordance with the Requirements of
**FCC PART 15.407, Subpart E
Class II Permissive Change**

Issued to

**Bluesocket, Inc.
10 North Avenue
Burlington, MA 01803
(781) 328-0888**

for

**BlueSecure™ BSAP-1500
FCC ID: TIH8711500**

Report Issued on July 17, 2007

Tested by



Brian F. Breault

Reviewed by



Larry K. Stillings

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1. Scope

This test report certifies that the Bluesocket BlueSecure™ BSAP-1500, as tested, meets the FCC Part 15.407, Subpart E requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required. The purpose of this report is to provide a Band Edge Measurement for Channel 44 (Channel 3) at 5220 MHz in the original report generated by ADT Report# RF940728H06, issued August 31, 2005.

2. Product Details

- 2.1. Manufacturer:** Bluesocket, Inc.
- 2.2. Model Number:** BlueSecure™ BSAP-1500
- 2.3. Serial Number:** None
- 2.4. Description:** The BlueSecure™ Access Point 1500 (BSAP-1500) is the first enterprise-class 802.11a/b/g Wi-Fi certified AP. ISM Channels 48 & 52 to 60 that require Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) have been disabled. ISM Channel 165 is also disabled.
- 2.5. Power Source:** 48 Volts DC via Power Over Ethernet or 48 Volts DC Power Adapter
- 2.6. EMC Modifications:** None

3. Product Configuration

3.1. Support Equipment

Device	Manufacturer	Model	Serial No.	Comment
Notebook PC	Dell	Inspiron 5160	CN-0T5326-12961-4C1-5477	Remotely located
PoE Injector	PowerDsine	3001	R06416050041283801	Remotely located

3.2. Cables

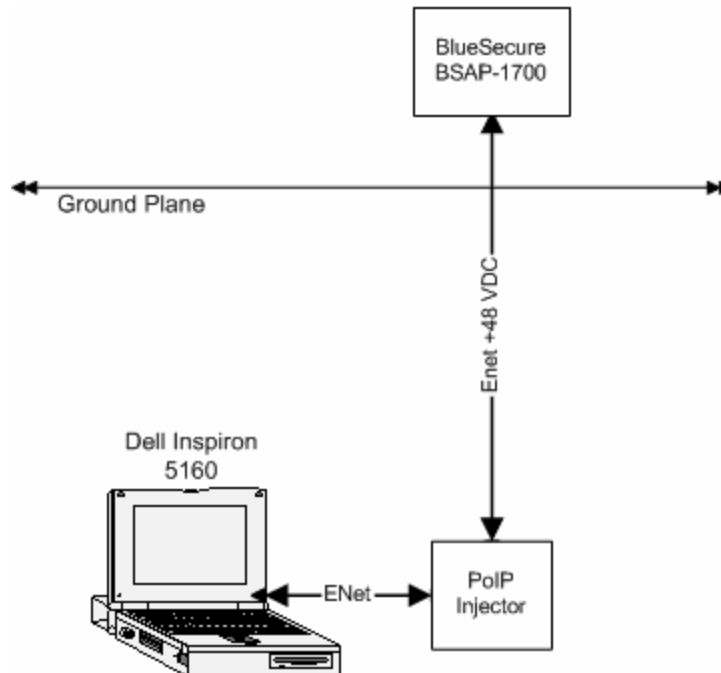
Cable Type	Length	Shield	From	To
CAT 5 Ethernet (UTP)	1.5 Meters	No	Notebook PC	PoE Injector
CAT 5 Ethernet (UTP)	10 Meters	No	PoIP Injector	BSAP-1700

3. Product Configuration (continued)

3.3. Operational Characteristics & Software

1. Click on the Login AP icon on the desktop. Type wg1000 as the pass phrase.
2. Navigate through the CLI to the command prompt (Enter option 6, then enter option 1)
3. At the command prompt, type /home/setup_ap (this will configure the AP – there will be a delay of 30 seconds before the prompt returns)
4. Click on the "Run Traffic" icon on the desktop. This will startup the traffic through the AP. When you are finished running the traffic, you can do a Ctrl-c in the window with all the dots.
5. Once you are finished with channel 1, close "Run Traffic", run /home/setup_channel_6 on the APs command prompt. Click on the "Run Traffic" icon again. Repeat for other channels.

3.4. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due
EMI Receiver	Hewlett Packard	8546A	3650A00360	3/14/2008
Spectrum Analyzer	Hewlett Packard	8593E	3829A03887	3/8/2008
Microwave Preamp	Hewlett Packard	8449B	3008A01323	9/21/2008
Bilog Antenna	Com-Power	AC220	25509	7/31/2007
Horn Antenna	Electro-Metrics	EM-6961	6337	8/25/2007
Horn Antenna	ComPower	AH-840	03075	8/25/2007
2.4 GHz BP Filter	Micro-Tronics	BRM50702	14	11/16/2007

4.2. Measurement & Equipment Setup

Test Date: 7/13/2007
Test Engineer: Brian Breault
Normal Site Temperature (15 - 35°C): 21.6
Relative Humidity (20 -75%RH): 25

4.3. Test Procedure

The test measurements contained in this report are based on the requirements detailed in FCC Part 15, Subpart E—Unlicensed National Information Infrastructure Devices, operating in the 5.15–5.35 GHz, 5.47–5.725 GHz and 5.725–5.825 GHz bands.

The test methods used to generate the data in this test report are in accordance with ANSI C63.4: 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

In accordance with ANSI C63.4-2003, section 13.1.4.1, c, the device under test was rotated through three orthogonal axes to determine which attitude produced the highest emission relative to the limit. The attitude that produced the highest emission relative to the limit was used for all radiated emission measurements.

5. Measurement Summary

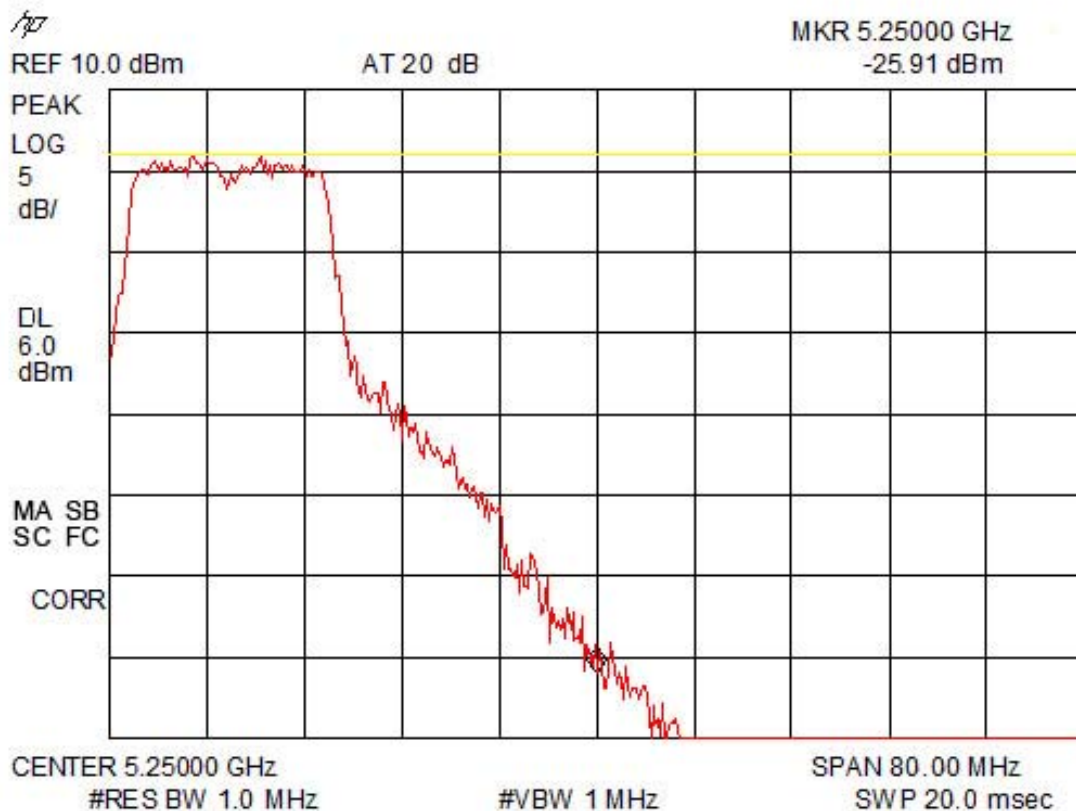
Test Requirement	FCC Part 15 Reference	Test Report Section	Result	Comment
Upper Band Edge	15.215 (c)	6.1	Compliant	

6. Measurement Data

6.1. Band Edge Measurements

6.1.2. Upper Band Edge (15.215(c))

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.



7. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with Federal Communications Commission (FCC) and Industry Canada standards. A description of the test sites is on file with the FCC (registration number **96392**) and Industry Canada (file number **IC 3023**).

The radiated emissions test site is a 3 and 10 meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane required by EN 55022.

Both sites are designed to test products or systems 1.5 meter W x 1.5 meter L x 2.0 meter H, floor standing or table top.