



Compliance Testing, LLC

Previously Flom Test Lab

RF, EMC and Safety Testing Experts Since 1963

toll-free: (866) 311-3268

fax: (480) 926-3598

<http://www.ComplianceTesting.com>

info@ComplianceTesting.com

Date: May 12, 2010

Applicant: Spot LLC
19349 N. 12th Street
Covington, LA 70433

Attention of: Christopher Robinson
Ph: (985) 893-1048
Fax: (985) 893-1858
Email: ChrisR@globalstar.com

Equipment: COMM

FCC Rules: Part 15, Subpart B. Class B Limits.

To Whom It May Concern:

Enclosed please find your copy of the Test Data Report for the referenced equipment.

Please keep the original on record for submission to the FCC, **but only if and when they request it.**

In the event the FCC ever requests this submission, please complete all the documentation requirements, (as per the LIST OF EXHIBITS) before sending.

Should you have any questions, please do not hesitate to call.

Sincerely yours,

John Erhard: Engineering Manager



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(Unintentional Radiator)

of

Model: COMM

to

Federal Communications Commission

Rule Part 15, Subpart B - Unintentional Radiators

Class B Limits

Date of Report: May 12, 2010

At the Request of:

Spot LLC
19349 N. 12th Street
Covington, LA 70433

Attention of:

Christopher Robinson
Ph: (985) 893-1048
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Email: ChrisR@globalstar.com

Reviewed By:

John Erhard: Engineering Manager



Test Report Revision History

Revision	Date	Revised By	Reason for revision
1.0	May 12, 2010	J. Erhard	Original Document
2.0	June 28, 2010	J. Erhard	Add conducted emissions test data



The applicant has been cautioned as to the following:

15.21 Information to User

The user's manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) Special Accessories

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.



Testimonial And Statement Of Certification

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.
2. **That** the technical data supplied with the application was taken under my direction and supervision.
3. **That** the data was obtained on representative units, randomly selected.
4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data is true and correct.

A handwritten signature in black ink that reads "John Erhard".

John Erhard: Engineering Manager

Certifying Engineer:




Table of Contents

<u>Rule</u>	<u>Description</u>	<u>Page</u>
	Test Report	1
	Standard Test Conditions and Engineering Practices	2
	Test Results Summary	3
15.109	Radiated Emissions	4
15.107	A/C Powerline Conducted Emissions	5
	Test Setup Photos	6
	Test Equipment Utilized	8



Required information per ISO 17025-2005, paragraph 5.10.2:

- a) **Test Report**
- b) Laboratory: Compliance Testing
(FCC: 933597) 3356 N. San Marcos Place, Suite 107
(Canada: IC 2044A-1) Chandler, AZ 85225
- c) Report Number: d1050011
- d) Client: Spot LLC
- e) Identification: COMM
- Description: Transmitter
- f) EUT Condition: Not required unless specified in individual tests.
- g) Report Date: May 12, 2010
- h, j, k): As indicated in individual tests.
- i) Sampling method: No sampling procedure used.
- l) Uncertainty: In accordance with Compliance Testing internal quality manual.
- m) Supervised by:
- 
John Erhard: Engineering Manager
- n) Results: The results presented in this report relate only to the item tested.
- o) Reproduction: This report must not be reproduced, except in full, without written permission from this laboratory.



Sub-part
2.1033(b):

Test and Measurement Data

All tests and measurement data shown were performed in accordance with FCC Rules and Regulations, Volume II; Part 2 and the following individual Parts: 15.107, 15.109; Unintentional Radiators

Standard Test Conditions and Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-2009, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

A2LA

"A2LA has accredited Compliance Testing in Chandler, AZ for technical competence in the field of Electrical testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO 17025:2005 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Please refer to www.a2la.org for current scope of accreditation.

Certificate number: 2152.01



FCC OATS Reg. #933597

IC O.A.T.S. Number: 2044A-1



Test Results Summary

Specification	Test Name	Pass, Fail, N/A	Comments
15.109	Radiated Emissions	Pass	
15.107	A/C Powerline Conducted Emissions	Pass	Tested using a laptop as the host device

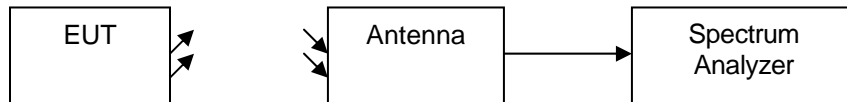
Name of Test: Radiated Emissions
Specification: 15.109
Test Equipment Utilized: i00049, i00267

Engineer: J. Erhard
Test Date: 5/6/2010

Test Procedure

The EUT was tested in an Open Area Test Site (OATS) set 3m from the receiving antenna. A spectrum analyzer was used to verify that the EUT met the requirements for Radiated Emissions. The EUT was tested by rotating it 360° with the antennas in both the vertical and horizontal orientation and raised from 1 to 4 meters to ensure the TX signal levels were maximized. All emissions from 30 MHz to 1 GHz were examined.

Test Setup



Settings

RBW = 100 KHz

VBW = 100 KHz

Detector – Quasi Peak

Sample Calculations

Corrected Value = Measured Value + Correction factor

Correction factor = ACF + Cable loss

Radiated Emissions

Emission Freq (MHz)	Measured Value (dBuV/m)	Correction Factor (dB)	Corrected Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
42.637	12.7	14.4	27.1	40.0	-13.0
167.264	13.4	11.3	24.7	43.0	-18.3
293.314	12.8	15.3	28.1	46.0	-17.9
421.687	12.7	19.1	31.8	46.0	-14.2
516.248	12.7	20.2	32.9	46.0	-13.1
636.259	12.7	23.1	35.8	46.0	-10.2

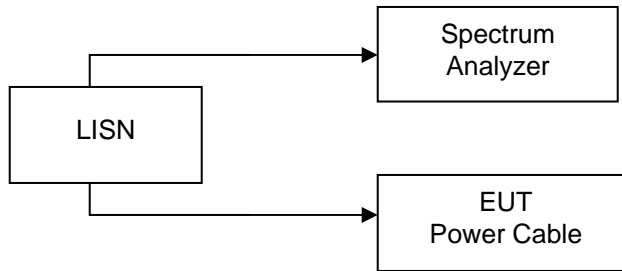
Name of Test: A/C Powerline Conducted Emissions
 Specification: 15.107
 Test Equipment Utilized: i00033, i00270

Engineer: J. Erhard
 Test Date: 6/11/2010

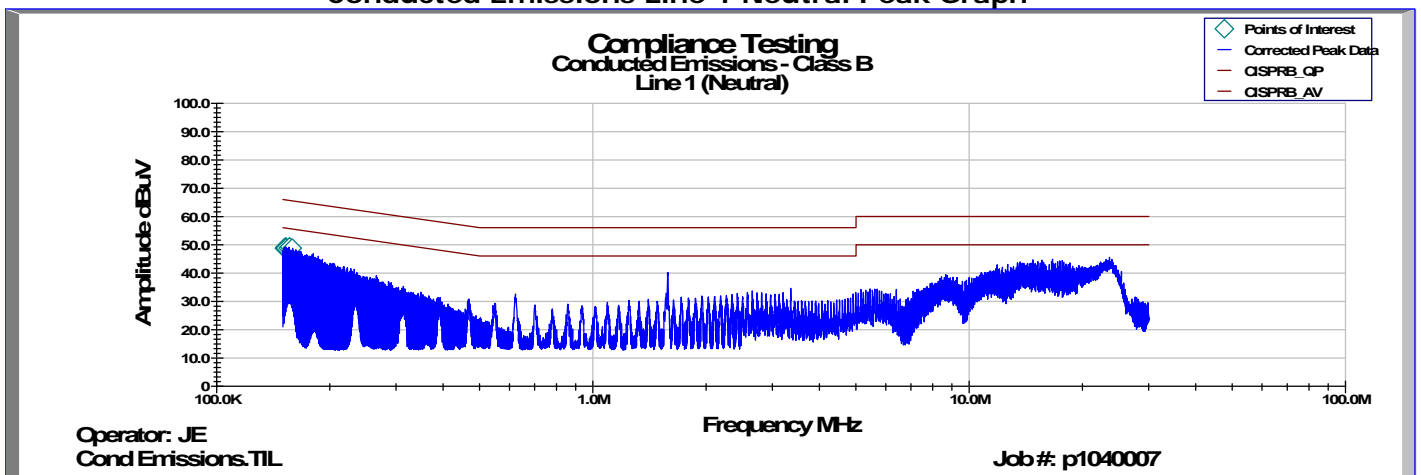
Test Procedure

The EUT power cable connected to a LISN and the monitored output of the LISN was connected directly to a spectrum analyzer. The conducted emissions from 150 kHz to 30 MHz were monitored and compared to the specification limits.

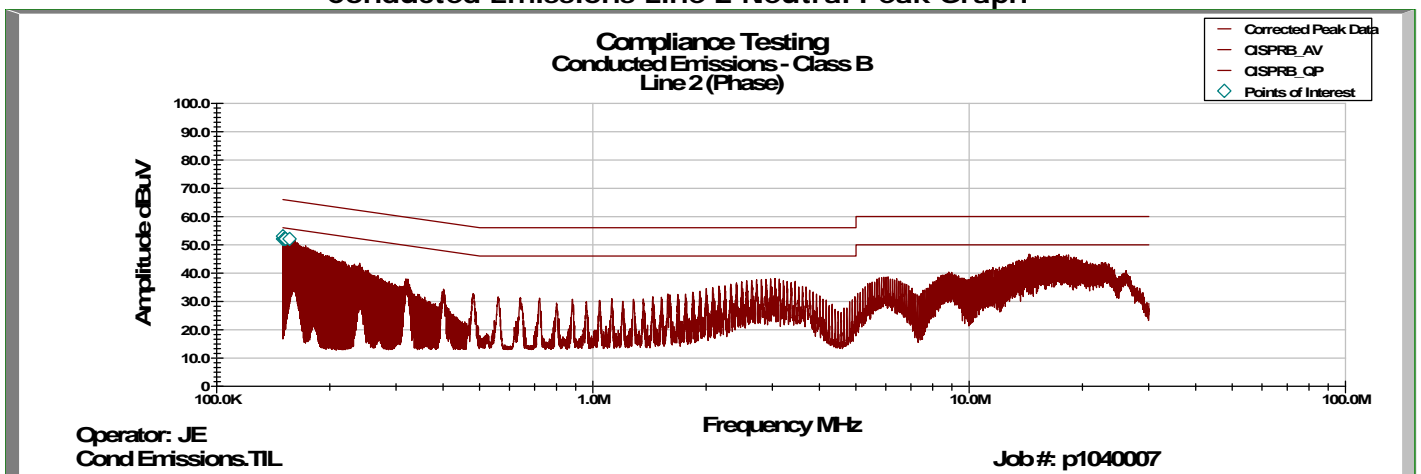
Test Setup



Conducted Emissions Line 1 Neutral Peak Graph



Conducted Emissions Line 2 Neutral Peak Graph



All peak values are below the quasi-peak and average limits.



Radiated Emissions Test Setup Photos





Conducted Emissions Test Setup Photos



Test Equipment Utilized

Description	MFG	Model Number	CT Asset Number	Last Cal Date	Cal Due Date
Spectrum Analyzer	HP	8566B	i00049	10/9/2009	10/9/2010
Bilog Antenna	Schaffner	CBL6111C	i00267	11/21/2009	11/21/2011
Spectrum Analyzer	HP	8546A	i00033	11/4/2009	11/4/2010
LISN	FCC	FCC-LISN-50-32-2-01	i00270	9/17/2008	9/17/2010

In addition to the above listed equipment standard RF connectors and cables were utilized in the testing of the described equipment. Prior to testing these components were tested to verify proper operation.

END OF TEST REPORT