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EMC Test Report

Project Number: 3101838

Report Number: 3101838EMC03 Revision Level: 1

Client: Radio Systems

Equipment Under Test: Invisible Fence pet containment unit

Model Name: Invisible Fence GPS Base

Model Number: RIG00-13727

Applicable Standards: FCC Part 95J

Report issued on: 13 June 2013

Test Result: Compliant

Tested by:

Brian Forster EMC Engineer

Reviewed by:

David Schramm EMC Manager

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS international Electrical Approvals in writing.



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Summary of Test Results

Basic Standards		Test Result		
	Emissions Testing			
Radiated Power: ERP		Reported		

Modifications Required to Compliance

None

2 General Information

Client Information 2.1

Name: Radio Systems

Address: 10427 Petsafe Way

City, State, Zip, Country: Knoxville TN 37932

Test Laboratory

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

General Information of EUT

Model Name: GPSC Mobile Unit

Model Number: RIG00-13671

Hardware Version: 00 Software Version: V0.407 Rated Voltage: 3.7VDC Test Voltage: 3.7VDC

Sample Received Date: 20MAR2013

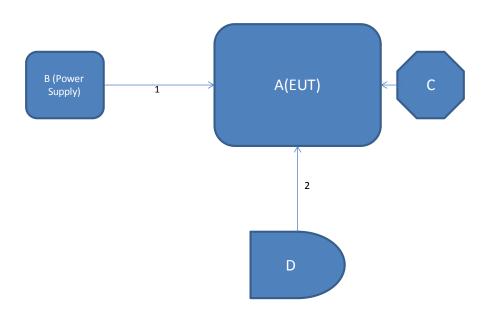
Dates of testing: 27MAR to 03APR2013

Operating Modes and Conditions

The EUT was programmed by the manufacturer to run continuously exercising all modes of operation.



2.5 EUT Connection Block Diagram



System Configurations 2.1

Device reference	Manufacturer	Description	Model Number	Serial Number
А	Radio Systems	EUT	RIG00-13727	NA
В	Radio Systems	EUT Power supply	SPS-02C5-0.75- US	NA
С	Radio Sysstems	EUT MURS Antenna	100-1130 Rev0	NA
D	Radio Systems	GPS Antenna	NA	NA

2.2 Cable List

Cable reference	Port Name	Start	End	Cable Length (m)	Ferrite installed?	Shielded?
1	DC Power	AC Mains	EUT	1.9	N	N
2	GPS Receive	GPS Antenna	EUT	4.86	N	Y



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Radiated ERP

Test Result 3.1

Test Description	Product Specific Standard	Test Result
Radiated ERP	FCC Part 1.1310	Compliant

Test Method 3.2

The EUT was placed in the ALSE uniform field and was made to function as indicated in the "Operating Modes and Conditions" section of this report. The test system was set to generate the required field strength. The EUT was monitored for performance.

3.3 Test Site

3m Absorber Lined Shielded Enclosure, SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 24.0 °C Relative Humidity: 23.3 % Atmospheric Pressure: 98.4 kPa

Test Equipment 3.4

Test Start Date: 4/1/2013 Tested By: BKF

Test End Date: 4/2/2013

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
BiLog Antenna	JB6	Sunol	B079690	12-Sep-13
Receiver	ESU40	R&S	B079629	24-Sep-13
Coaxial Cable	Sucoflex 106	Huber+Suhner	B079714	13-Aug-13
Coaxial Cable	Sucoflex 106	Huber+Suhner	B079661	13-Aug-13

Note: The calibration period equipment is 1 year.

Test Data 3.5

Band of Operation		Band of Operation Conducted Power, dBm			
Туре	MHz	dBm	mW	Antenna Gain	Cable Loss
MURS	151.2	14.1	25	-1.1	

Band of Peak Radiated I		•	Average EIRP (50% duty cycle)	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	FCC/IC Limit	Verdict	Verdict
Туре	Type dBm mW		mW	cm	mW	mW/cm ²		
MURS	13.0	20	10	20	0.00197	0.20	Pass	Pass



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4 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	6 June 2013
1	Corrected limit.	13 June 2013