



**TEST REPORT
FROM
RFI GLOBAL SERVICES LTD**

Partial Test of: Blutag Victim

To: FCC Part 15.249(a)

Test Report Serial No:
RFI-RPT-RP76131JD04B

Version 2.0 supersedes all previous versions

This Test Report Is Issued Under The Authority Of Brian Watson, COO Payments and Consultancy:		
Checked By:	Nigel Davison	
Signature:	 pp	
Date of Issue:	14 May 2010	

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1. Customer Information




Company Name:	Satellite Tracking of People LLC
Address:	1212 North Post Oak Road Suite 100 Houston Texas 77055 USA

2. Summary of Testing

2.1. General Information

Specification Reference:	47CFR15.249
Specification Title:	Code of Federal Regulations Volume 47 (Telecommunications) 2009: Part 15 Subpart C (Radio Frequency Devices) - Section 15.249
Site Registration:	209735
Location of Testing:	RFI Global Services Ltd, Wade Road, Basingstoke, Hampshire, RG24 8AH
Test Dates:	18 October 2009 to 20 November 2009

2.2. Summary of Test Results

FCC Reference (47CFR)	Measurement	Port Type	Result
FCC 15.249(a)	Transmitter Fundamental Field Strength	Antenna	
Key to Results			
 = Complied  = Did not comply			

2.3. Methods and Procedures

Reference:	ANSI/TIA-603-C-2004
Title:	Land Mobile FM or PM - Communications Equipment - Measurement and Performance Standards
Reference:	ANSI C63.10 (2009)
Title:	American National Standard Methods for Testing Unlicensed Wireless Devices

2.4. Deviations from the Test Specification

Transmitter Fundamental Field Strength requested only.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

Brand Name:	Blutag
Model Name or Number:	Victim
Serial Number:	000015
Hardware Version Number:	BB11_V
Software Version Number:	4_603
FCC ID Number:	S5EBTV0909

3.2. Description of EUT

The equipment under test was a body worn GPRS/GPS tracker fitted with an ISM 915 MHz transmitter.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

Equipment Category	ISM915 MHz
Type of Radio Device:	Short Range Device
Antenna Type:	Internal
Power Supply Requirement(s):	3.7 V

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Wireless Communication Test Set
Brand Name:	Agilent
Model Name or Number:	8960 Series 10
Serial Number:	GB46311280
Cable Length and Type:	~1.5m Utiflex Cable
Connected to Port:	RF Input/Output Port

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- ISM 915 MHz device – Constantly transmitting at maximum power

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- The EUT was put into ISM 915 MHz mode by following the Client's instructions. The main button was pressed until the Light Emitting Diodes indicated the required mode.
- The battery was fully charged before testing commenced and recharged as required during the testing.

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to *Section 6. Measurement Uncertainty* for details.

5.2. Test Results**5.2.1. Transmitter Fundamental Field Strength****Test Summary:**

FCC Part:	Section 15.249(a)
Test Method Used:	ANSI C63.10 Section 6.5

Environmental Conditions:

Temperature Range (°C):	25
Relative Humidity Range (%):	32

Results: ISM 915 MHz

Channel	Measured Frequency (MHz)	Level (dBuV/m)
Single Channel	915.093	83.6

Calculated Power (ERP)

Channel	Measured Frequency (MHz)	Level (dBm)
Single Channel	915.093	-13.8

Note(s):

1. The power result was calculated from the measured field strength using $P_t = E^2 R^2 / 30$ where P_t is the power in Watts and R is the range distance of 3m. The final power was also reduced by 2.15 dB to account for the fact a dipole was used instead of an isotropic antenna.
2. The EUT was positioned in the X, Y and Z planes. The measurement antenna was positioned in the horizontal and vertical planes. The highest level was recorded in the above table.

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
Transmitter Fundamental Field Strength	30 MHz to 1000 MHz	95%	±4.64 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Last Calibrated	Cal. Interval (Months)
A1005	Waveguide Transition	Silver Lab	PM 7325X	None	Calibrated before use	-
A1391	Attenuator	HUBER + SUHNER AG	757987	6810.17.B	Calibrated before use	-
A1392	Attenuator	HUBER + SUHNER AG	757456	6820.17.B	Calibrated before use	-
A1534	Pre Amplifier	Hewlett Packard	8449B OPT H02	3008A00405	Calibrated before use	-
A1818	Antenna	EMCO	3115	00075692	27 Nov 2009	12
A288	Antenna	Chase	CBL6111A	1589	16 Mar 2010	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESIB26	100046K	09 Mar 2009	12
K0002	3m RSE Chamber	Rainford EMC	Not applicable	Not applicable	01 Sept 2009	12

NB In accordance with UKAS requirements all the measurement equipment is on a calibration schedule.