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FCC PART 15.249 TEST REPORT

UNLICENSED INTENTIONAL RADIATOR

Applicant	BODYMEDIA, INC.	
Address	4 SMITHFIELD STREET 11 TH FLOOR	
	PITTSBURG, PA 15222	
FCC ID	PV8-908903PROD1	
Model Numbers	SENSE WEAR MODEL FL297 SENSE WEAR MODEL 908903PROD1 BODY BUGG MODEL 908903PROD2	
Product Description	SENSEWEAR WATCHHEAD	
Date Sample Received	5/10/2007	
Date Tested	6/6/2007	
Tested By	Richard Block	
Approved By	Mario de Aranzeta	
Report Number	2010AUT7TestReport.doc	
Total Pages	10	
Test Results	<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL

**THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.**



Certificate # 0955-01



Certificate # 0955-01

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STATEMENT OF COMPLIANCE

This equipment has been tested in accordance with the standards identified in the referenced test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards. No modifications were made to the equipment during testing in order to demonstrate compliance with these standards.

I attest that the necessary measurements were made by me or under my supervision, at TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45, Newberry, Florida 32669.

Authorized by: Mario de Aranzeta

Signature: <*Mario de Aranzeta*>

Function: Engineer

Date: June 21, 2007

Tested by: Richard Block

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GENERAL INFORMATION

DUT Specification

The test results relate only to the items tested.		
Applicable Standard	Part 15.249	
DUT Description	SENSEWEAR WATCHHEAD	
FCC ID	PV8-908903PROD1	
Model Numbers	SENSE WEAR MODEL FL297 SENSE WEAR MODEL 908903PROD1 BODY BUGG MODEL 908903PROD2	
Operating Frequency	TX 2.43293 GHz	RX 2.43293 GHz
No. of Channels	1	
DUT Power Source	<input type="checkbox"/> 110–120Vac/50– 60Hz <input type="checkbox"/> DC Power <input checked="" type="checkbox"/> Battery Operated Exclusively	
Test Item	<input type="checkbox"/> Prototype	<input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Production
Type of Equipment	<input type="checkbox"/> Fixed	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable
Antenna	N/A	
Antenna Connector	N/A	
Test Facility	Timco Engineering Inc. 849 NW State Road 45 Newberry, FL 32669 USA.	
Test Supporting Equipment	None	
Test Condition	The DUT was tested in the laboratory in an environment with normal temperature and humidity. The temperature was 26°C with a relative humidity of 50%.	
Modification to the DUT	The DUT was placed in continuous transmit mode of operation.	
Test Standards	ANSI C63.4 - 2003	

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EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
3/10-Meter OATS	TEI	N/A	N/A	Listed 3/20/07	3/19/10
3-Meter OATS	TEI	N/A	N/A	Listed 1/11/06	1/10/09
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	Listed 5/11/07	5/11/10
Antenna: Biconnical	Eaton	94455-1	1057	CAL 12/12/05	12/12/07
Antenna: Biconnical	Eaton	94455-1	1096	CAL 10/11/06	10/11/08
LISN	Electro-Metrics	ANS-25/2	2604	CAL 10/5/06	10/5/08
Antenna: Log-Periodic	Eaton	96005	1243	CAL 12/14/05	12/14/07
Analyzer: Tan Tower Spectrum Analyzer	HP	8566B Opt 462	3138A07786 3144A20661	CAL 12/7/05	12/7/07
Analyzer: Tan Tower RF Preselector	HP	85685A	3221A01400	CAL 12/8/05	12/8/07
Analyzer: Tan Tower Quasi-Peak Adapter	HP	85650A	3303A01690	CAL 12/8/05	12/8/07
Analyzer: Tan Tower Preamplifier	HP	8449B-H02	3008A00372	CAL 12/8/05	12/8/07

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TEST PROCEDURE

Radiation Interference: ANSI Standard C63.4-2003. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100kHz with an appropriate sweep speed and the video bandwidth was 300kHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

Formula Of Conversion Factors: The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

Example:

Freq (MHz)	Meter Reading	+ ACF	+ CL	= FS
33	20 dBuV	+ 10.36 dB	+ 0.5	= 30.86 dBuV/m @ 3m

Power Line Conducted Interference: The procedure used was ANSI Standard C63.4-2003 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The spectrum was scanned from 0.15 to 30 MHz.

Occupied Bandwidth: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dBm per division.

ANSI Standard C63.4-2003 10.1 Measurement Procedures: The DUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The DUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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RADIATION INTERFERENCE

Rules Part No.: 15.249, 15.209

Requirements:

Frequency	Limits
Part 15.209	
9 to 490 kHz	2400/F (kHz) μ V/m @ 300 meters
490 to 1705 kHz	24000/F (kHz) μ V/m @ 30 meters
1705 kHz to 30 MHz	29.54 dB μ V/m @ 30 meters
30 - 88	40.0 dB μ V/m @ 3 meters
80 - 216	43.5 dB μ V/m @ 3 meters
216 - 960	46.0 dB μ V/m @ 3 meters
Above 960	54.0 dB μ V/m @ 3 meters
Part 15.249	
Fundamental 902 - 928 MHz	94.0 dB μ V/m @ 3 meters
Fundamental 2.4 - 2.4835 MHz	94.0 dB μ V/m @ 3 meters
Harmonics	54.0 dB μ V/m @ 3 meters

Test Data:

Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	Margin dB
2,432.8	2,432.80	47.7	H	1.87	32.51	82.08	11.92
2,432.8	2,432.80	49.1	V	1.87	32.51	83.48	10.52
2,432.8	4,865.60	3.4	V	2.66	33.97	40.03	13.97
2,432.8	4,865.60	6.1	H	2.66	33.97	42.73	11.27
2,432.8	7,298.40	8.0	V	3.39	35.54	46.93	7.07
2,432.8	7,298.40	8.8	H	3.39	35.54	47.73	6.27
2,432.8	9,731.20	7.6	V	3.87	36.82	48.29	5.71
2,432.8	9,731.20	8.4	H	3.87	36.82	49.09	4.91
2,432.8	12,164.00	7.8	H	4.45	39.03	51.28	2.72
2,432.8	12,164.00	8.4	V	4.45	39.03	51.88	2.12

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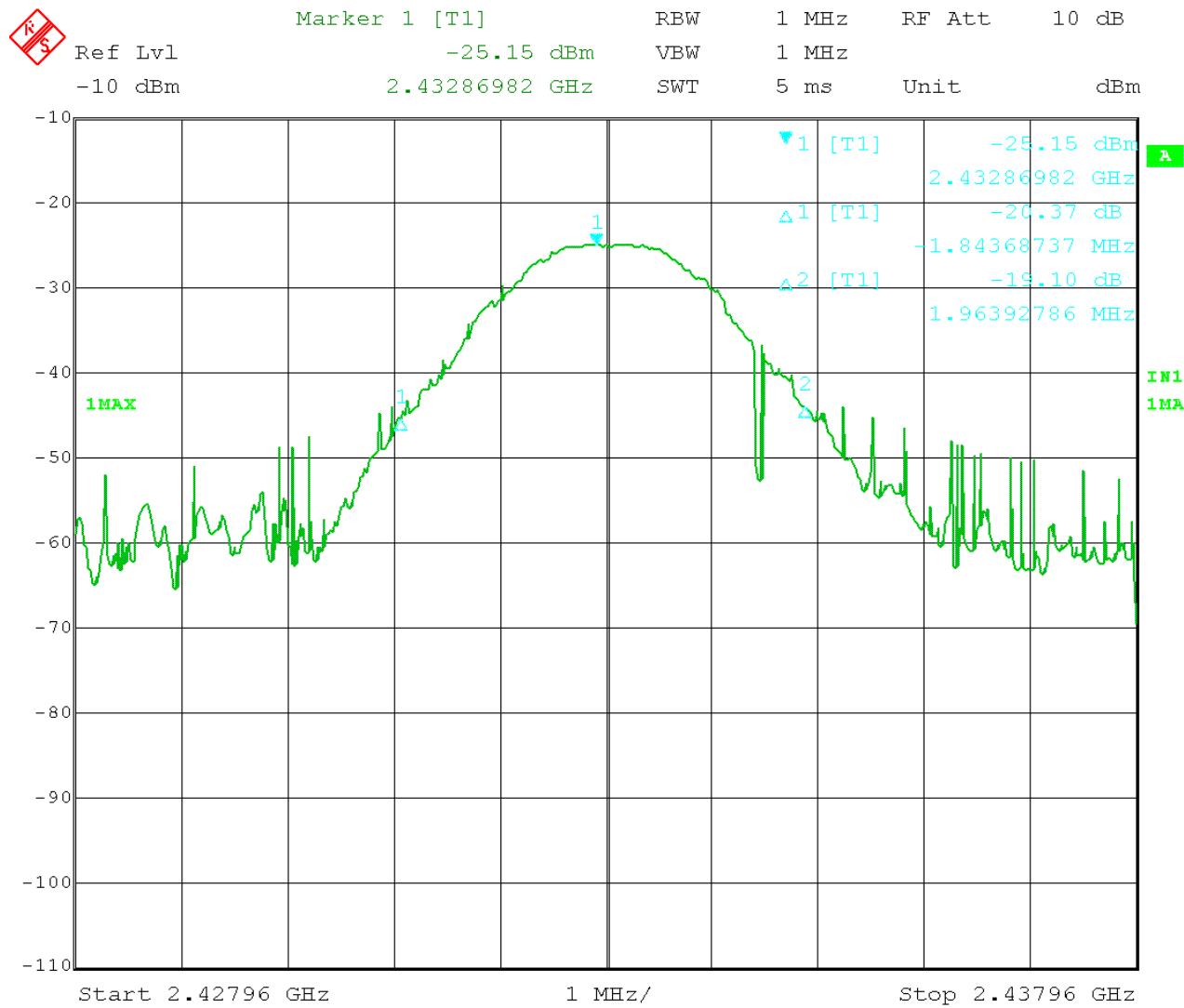
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OCCUPIED BANDWIDTH

Rules Part No.: 15.249 (d)

Requirements: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

Test Data:



Date: 7.JUN.2007 15:14:56

APPLICANT: BODY MEDIA INC.

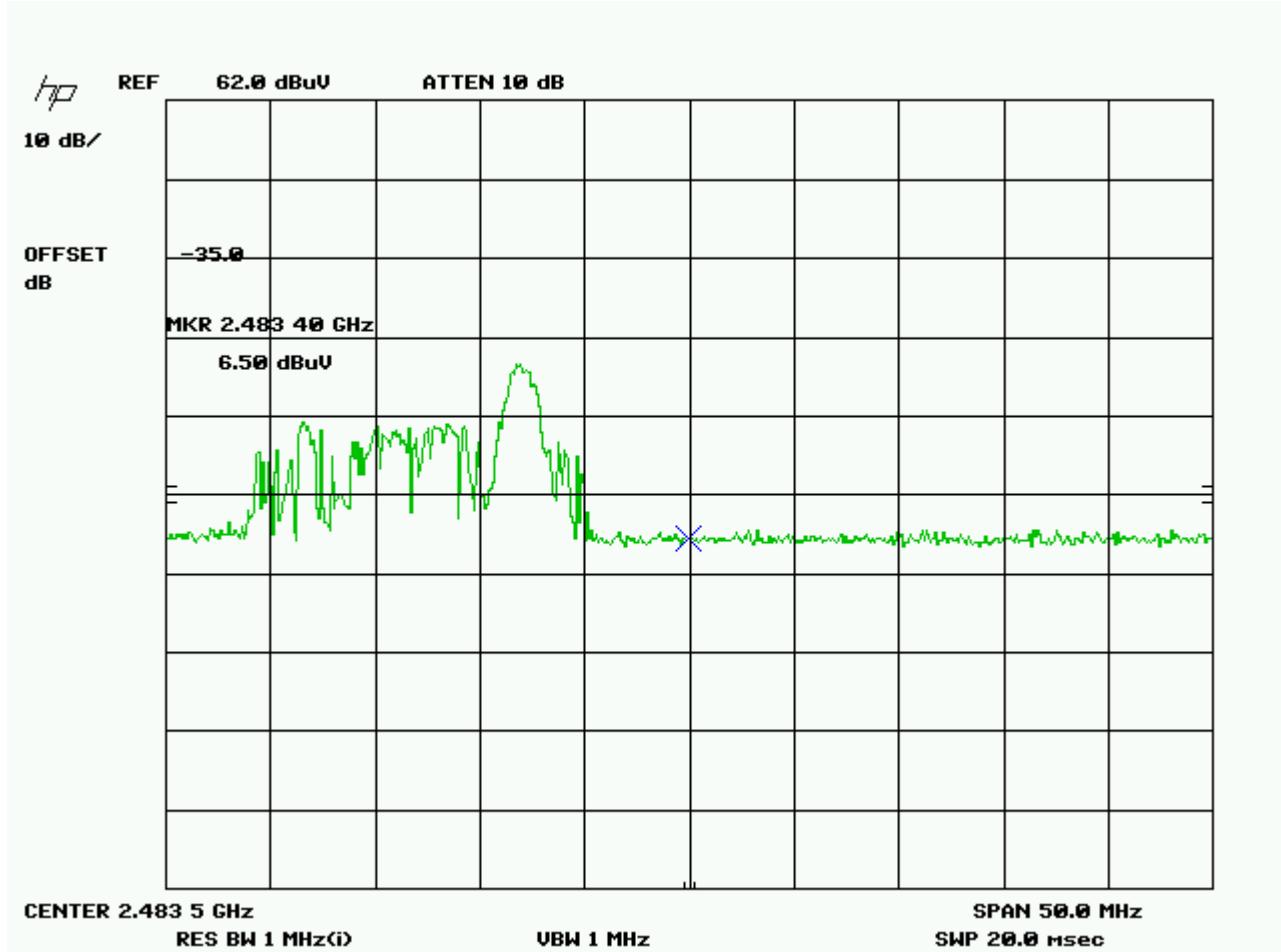
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Bandedge Plot



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POWER LINE CONDUCTED INTERFERENCE

Rules Part No.: 15.207

Requirements:

Frequency (MHz)	Quasi Peak Limits (dBuV)	Average Limits (dBuV)
0.15 – 0.5	66 – 56	56 – 46
0.5 – 5.0	56	46
5.0 – 30	60	50

Test Data: NOT APPLICABLE TO THIS DEVICE.

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