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## **CERTIFICATION TEST REPORT**

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**Manufacturer:** Centurion Medical Products  
100 Centurion Way  
Williamston, Michigan 48895 USA

**Applicant:** Same As Above

**Product Name:** Compass CAST

**Product Description:** The Centurion Compass CAST-MAP system consists of two parts. The Compass CAST disposable digital wireless blood pressure monitor (transmitter) and the Compass MAP wireless sensor (receiver) which plugs into the Blood Pressure monitor port of a medical multifunction monitor. When a connection is made between the CAST and the MAP, a detailed blood pressure waveform is presented on the multi-function monitor. The Compass CAST and MAP are both implemented using Low Energy Bluetooth radios.

**Model:** CWHG001 (Compass CAST)

**FCC ID:** 2AF4Z-CWHG001

**Testing Commenced:** Nov. 10, 2015

**Testing Ended:** Nov. 13, 2015

**Test Results:** In Compliance

The EUT complies with the EMC requirements when manufactured identically as the unit tested in this report, including any required modifications. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

**Standards:**

- KDB447498



Order Number: F2LQ7746C

Manufacturer: Centurion Medical Products

Model: CWHG001 (Compass CAST)

**Evaluation Conducted by:**

Ken Littell, Director of EMC & Wireless Operations

**Report Reviewed by:**

Wendy Fuster, President

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## 1 ADMINISTRATIVE INFORMATION

### 1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### 1.2 Measurement Procedure:

All measurements were performed according to KDB558074.

### 1.4 Document History

Document Number	Description	Issue Date	Approved By
F2LQ7746C-12E	First Issue	Feb. 11, 2016	W. Fuster



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## 2 SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	KDB447498	Complies
Exemption for 5mm distance from Human	KDB447498	Complies

Modifications Made to the Equipment
None



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### **3      ENGINEERING STATEMENT**

This report has been prepared on behalf of Centurion Medical Products to provide documentation for the testing described herein. This equipment has been tested and found to comply with KDB447498. The test results found in this test report relate only to the item(s) tested.



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## 4 EUT INFORMATION AND DATA

### 4.1 Equipment Under Test:

Product: Compass CAST

Model: CWHG001

Serial No.: None Spec.

FCC ID: 2AF4Z-CWHG001

### 4.2 Trade Name:

Centurion Medical Products

### 4.3 Power Supply:

5.0VDC from an AC/DC power supply

### 4.4 Applicable Rules:

- KDB447498

### 4.5 Equipment Category:

Radio Transmitter-DTS

### 4.6 Antenna:

0dBi Integral Antenna

### 4.7 Accessories:

N/A

### 4.8 Test Item Condition:

The equipment to be tested was received in good condition.



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## 5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

### 5.1 Requirements:

Limit: 1mW/cm<sup>2</sup>

Formula used for result: 
$$\frac{\text{E.I.R.P.}}{4 \pi R^2}$$

Results: E.I.R.P. = 1.714mW

1.714mW at the 2480 MHz High Channel  
which is the highest.

$$\frac{1.714\text{mW}}{4 \pi R^2} = \frac{1.714\text{mW}}{5026.55} = .00034\text{mW/cm}^2$$

**NOTE: The EUT meets the SAR Test Exclusion for use of 5mm distance since EIRP of 1.714mW is under the 10mW requirement for exclusion.**