#### **CERTIFICATION TEST REPORT**

**Manufacturer:** Libra Industries, Inc.

7770 Division Drive

Mentor, Ohio 44060 USA

**Applicant:** 7signal Solutions, Inc.

526 South Main Street, Suite 601G

Akron, Ohio 44311 USA

Product Description: 802.11ac Dual Band Module

**Product Host:** Sapphire Eye 2100, model 2100

Modular Radio Model: WLE900VX-7S

Radio Module FCC ID: YLFSE2100WL

Testing Commenced: May 22, 2015

Testing Ended: July 14, 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

091213

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Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

**Evaluation Conducted by:** 

Ken Littell, EMC Tech. Mgr.

Fayer Justig Key

Report Reviewed by:

Wendy Fuster, President

F2 Labs 26501 Ridge Road Damascus, MD 20872 Ph 301.253.4500 Fax 301.253.5179 F2 Labs 16740 Peters Road Middlefield, OH 44062 Ph 440.632.5541 Fax 440.632.5542

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Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

#### 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:

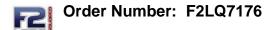
All measurements were performed according to KDB558074.

# 1.4 Document History

Document Number	Description	Issue Date	Approved By
F2LQ7176-04E	First Issue	Aug. 27, 2015	W. Fuster

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Client: 7signal Solutions, Inc. FCC ID: YLFSE2100WL

# 2 SUMMARY OF TEST RESULTS

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

Note: Product was operated from 120V AC using AC/DC Adapter Shenzen Zhen Huan Electric Co. ZF120A-1201500.

Modifications Made to the Equipment
None

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Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

### 3 ENGINEERING STATEMENT

This report has been prepared on behalf of 7signal Solutions, Inc. 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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Order Number: F2LQ7176 Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

#### 4 EUT INFORMATION AND DATA

## 4.1 Equipment Under Test:

802.11ac Dual Band Module

Modular Radio Model: WLE900VX-7S Radio Module FCC ID: YLFSE2100WL

Product Host: Sapphire Eye 2100, model 2100, Serial No.: 121400029

## 4.2 Trade Name:

7signal Solutions, Inc.

## 4.3 Power Supply:

AC/DC Adapter Shenzen Zhen Huan Electric Co. ZF120A-1201500

## 4.4 Applicable Rules:

KDB447498

## 4.5 Equipment Category:

Radio Transmitter-DTS

#### 4.6 Antenna:

6dBi 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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Client: 7signal Solutions, Inc.

FCC ID: YLFSE2100WL

5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 **Requirements:** 

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

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

Results: E.I.R.P. = 1259mW

1259mW at the 5745-5825 MHz band

which is the highest.

1259<u>mW</u> = 1259 mW = .25047 mW/cm 2

4 π R<sup>2</sup> 5026.55

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