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## **MPE REPORT**

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**Manufacturer:** Knox Company  
1601 West Deer Valley Road  
Phoenix, Arizona 85027 USA

**Applicant:** Same as Above

**Product Name:** Radio Module

**Product Description:** Radio Module

**Model(s):** CC3100MODR11MAMOB

**FCC ID:** 2AOVI-KNOX-RAS

**Testing Commenced:** Dec. 18, 2017

**Testing Ended:** Feb. 2, 2018

**Summary of 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 and/or manufacturer's statement. Any changes to the design or build of this unit subsequent to this testing may deem it non-compliant.

**Standards:**

- **KDB447498**



Order Number: F2LQ10489

Client: Knox Company  
Model(s): CC3100MODR11MAMOB

**Evaluation Conducted by:**

Joe Knepper, EMC Proj. Eng.

**Report Reviewed by:**

Ken Littell, Director of EMC & Wireless Operations

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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
F2LQ10489-05E	First Issue	Feb. 22, 2018	K. Littell



Order Number: F2LQ10489

Client: Knox Company  
Model(s): CC3100MODR11MAMOB

## 2 SUMMARY OF TEST RESULTS

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

Modifications Made to the Equipment
None



**Order Number: F2LQ10489**

**Client: Knox Company**  
**Model(s): CC3100MODR11MAMOB**

### **3 ENGINEERING STATEMENT**

This report has been prepared on behalf of Knox Company 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.



#### **4 EUT INFORMATION AND DATA**

##### **4.1 Equipment Under Test:**

Product(s): Radio Module  
Model(s): CC3100MODR11MAMOB  
Serial No(s): None Specified  
FCC ID: 2AOVI-KNOX-RAS

##### **4.2 Trade Name:**

Knox Company

##### **4.3 Power Supply:**

Volgen KTPS90-1207

##### **4.4 Applicable Rules:**

- KDB447498

##### **4.5 Equipment Category:**

Radio Transmitter-DTS

##### **4.6 Antenna:**

4.5dBi Whip Antenna

##### **4.7 Accessories:**

N/A

##### **4.8 Test Item Condition:**

The equipment to be tested was received in good condition.



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

**5.1 Requirements:**

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

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

**Results:** E.I.R.P. = 82.04mW

82.04mW which is the highest.

$$\frac{82.04mW}{4 \pi R^2} = \frac{82.04mW}{5026.55} = 0.01632mW/cm^2$$