F2 Labs
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CERTIFICATION TEST REPORT

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:	Oct. 22, 2019
Testing Ended:	Oct. 22, 2019
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**

Evaluation Conducted by:

Julius Chiller, EMC/Wireless Engineer

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
F2P21834-05E	First Issue	Nov. 22, 2019	K. Littell

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

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:

FSP Group Inc. FSPO84-DIBAN2

4.4 Applicable Rules:

CFR 47, Part 15.247, subpart C

4.5 Equipment Category:

Radio Transmitter-DTS

4.6 Antenna:

5dBi Whip Antenna - Larsen NMO5E2400B

4.7 Accessories:

N/A

4.8 Testing Algorithm:

The radio module was set to transmit a continuously modulated signal on the low, mid and high channels, in the 2.4 GHz Wi-Fi band.

5. RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1 Requirements:

Limit: 1mW/cm^2

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

Results for distance of 20cm: E.I.R.P. = 92.04mW

92.04mW at the 2412-2462 MHz band
which is the highest.

$$\frac{92.04\text{mW}}{4 \pi R^2} = \frac{92.04\text{mW}}{5026.55} = 0.0183\text{mW/cm2}$$