F2 Labs
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United States of America
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MPE 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
Operating Voltage/Freq. **of EUT During Testing:**	120V/60 Hz
Model(s):	**CC3135MODRNMMOBR**
FCC ID:	**2AOVI-KNOXRT35**
IC:	**23479-KNOXRT35**
Testing Commenced:	2024-10-31
Testing Ended:	2024-11-07
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**
- **FCC 1.1310**
- **Safety Code 6**
- **RSS-102**

Evaluation Conducted by:

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Report Reviewed by:

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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.

Site description and attenuation data are on file with the Certification and Engineering Bureau, Industry Canada, Site Number 4730B.

1.2   Measurement Procedure:
All measurements were performed according to:
- KDB558074
- FCC 15.247, FCC 15.407
- RSS-247

1.4   Document History

Document Number	Description	Issue Date	Approved By
F2P33423-05E	First Issue	2024-12-12	K. Littell

2   SUMMARY OF TEST RESULTS

Test Name	Standard(s)	Results
RF Exposure for Device >20cm from Human	**KDB447498 FCC 1.1310 Safety Code 6 RSS-102**	**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 calculations described herein, based on the measurements taken in supporting Test Reports. This equipment has been tested and calculations were found to comply with KDB447498, FCC 1.1310, Safety Code 6 and RSS-102. 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: Radio Module
Model(s): CC3135MODRNMMOBR
Serial No.: 32565
FCC ID: 2AOVI-KNOXRT35
IC: 23479-KNOXRT35

4.2   Trade Name:
Knox Company

4.3   Power Supply:
120V/60 Hz
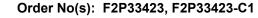
4.4   Applicable Rules:
- KDB447498
- FCC 1.1310
- Safety Code 6
- RSS-102

4.5   Antenna:
Integral Flat Patch Antenna: 3.35dBi Gain

4.6   Accessories:

Device	Manufacturer	Model Number	Serial Number
Power Supply	Tensility	TSA1201A-1201000US	None Specified

5.   RF EXPOSURE FOR DEVICE >20cm FROM HUMAN

5.1   Requirements: Distance used is 20cm

FCC	
Limit:	1mW/cm^2
Formula used for result:	$\underline{\text{E.I.R.P.}}$ 4 π R2
Results:	E.I.R.P. = 203.70mW (23.09dBm) 94.2mW (19.74dBm) was the highest conducted power of the certified module in the 2400 MHz band. 3.35dBi antenna gain used. $\dfrac{203.70\text{mW}}{4 \pi R^2}$ = $\dfrac{203.70\text{mW}}{5026.55}$ = 0.041mW/cm^2

IC	
Limit:	5.36W/m^2
Formula used for result:	$\underline{\text{E.I.R.P.}}$ 4 π R2
Results:	E.I.R.P. = 203.70mW (23.09dBm) 94.2mW (19.74dBm) was the highest conducted power of the certified module in the 2400 MHz band. 3.35dBi antenna gain used. $\dfrac{203.70\text{mW}}{4 \pi R^2}$ = $\dfrac{203.70\text{mW}}{5026.55}$ = 0.41 W/m^2