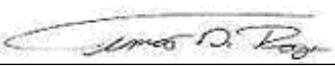


Test Report – FCC Part 15.249 Intentional Radiator Applicant: goTenna Inc.

Signature:



Sr. EMC Engineer
EMC-003838-NE



Name & Title:

Tim Royer, EMC Engineer

Date of Signature

12/2/2024

Signature:



Name & Title:

Kristoffer Costa, EMC Technician

Date of Signature

12/2/2024

This test report relates only to the items tested as identified and is not valid for any subsequent changes or modifications made to the equipment under test.

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1. Applicant Information

Applicant: goTenna Inc.
Address: 101 Hudson Street
Suite 1701
Jersey City, New Jersey, 07302, United States

1.1 Test Result Summary

The following regulatory standards were used FCC Title 47 CFR Part 15.249, IC RSS-210 Issue 8 A2.9 & RSS GEN Issue 4. The following test procedure was used ANSI C63.10-2013, C63.4-2014. Full test results are available in this report.

No additions to the test methods were needed. There were no deviations, or exclusions from the test methods. No test results are from external providers or from the customer. The test results relate only to the items tested. Timco does not offer opinions and interpretations, only a pass/fail statement.

| FCC Rule Part No. | IC Standard Ref. | Requirement | Test Item | Result |
|-------------------|-------------------|---------------------------|----------------------------------|--------|
| 2.1049 | RSS-GEN 6.6 | Occupied Bandwidth | 99% Bandwidth | Pass |
| 15.249(a)(c) | RSS-210 § A2.9(a) | Fundamental and Harmonics | Radiated Spurious Emissions | Pass |
| 15.249(d)(e) | RSS-247 § 5.5 | Spurious Emissions | Bandedge | N/A |
| | | | Radiated Spurious Emissions | Pass |
| 15.207(a) | RSS-GEN § 8.8 | AC Conducted Emissions | AC Powerline Conducted Emissions | N/A |
| 15.203 | | Antenna Requirement | | Pass |



13146 NW 86th Drive, Suite 400, Alachua, Florida 32615
(352) 472-5500 / testing@industrial-ia.com

2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at IIA's permanent laboratory located at 13146 NW 86th Drive, Suite 400, Alachua, Florida 32615.

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

3. Test Sample(s) (EUT/DUT)

The test sample was received: 9/20/2024

Dates of Testing: 11/22/2024 – 11/27/2024

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

| Identification | |
|-------------------|------------------------|
| FCC ID: | 2ABVK373373 |
| Brief Description | Mesh networking module |
| Model(s) # | SKU 900-00222 |
| Firmware version | N/A |
| Software version | N/A |
| Serial Number | N/A |

| Technical Characteristics | |
|------------------------------|----------------------|
| Frequency Range | 2400 MHz- 2483.5 MHz |
| RF O/P Power (Max.) | 73.59 dBuV/m |
| Modulation | FM |
| Number of Channels | N/A |
| Duty Cycle | 100% |
| Antenna Connector | SMA |
| Voltage Rating (AC or Batt.) | 12VDC |

Note: Information such as antenna gain, firmware/software numbers are provided by manufacturer and cannot be validated by the test lab.



13146 NW 86th Drive, Suite 400, Alachua, Florida 32615
(352) 472-5500 / testing@industrial-ia.com

3.2 Configuration of EUT

| Band (MHz) | Mode | Number of Ant. |
|-------------|----------|----------------|
| 2400-2483.5 | Transmit | 1 |

Operating conditions during Testing:

No modifications of the device under test (including firmware, specific software settings, and input/output signal levels to the EUT).

Peripherals used during Testing:

A laptop was used to program the EUT.

3.3 Test Setup of EUT

Equipment, antenna, and cable arrangement. The setup of the equipment and cable or wire placement on the test site that produces the highest radiated and the highest ac power-line conducted emissions shall be shown clearly and described. Information on the orientation of portable equipment during testing shall be included. Drawings or photographs may be used for this purpose.

Test Setups are included in the test report.

4. Test methods & Applicable Regulatory Limits

4.1 Test methods/Standards/Guidance

The measurement was performed as per ANSI 63.10. Full test results are available in this report.

Limits and Regulatory Limits:

- 1) FCC 15.249 (2012)

5. Measurement Uncertainty

| Parameter | Uncertainty (dB) |
|--------------------------------------|------------------|
| Conducted Emissions | ± 3.14 dB |
| Radiated Emissions (9kHz – 30 MHz) | ± 3.08 dB |
| Radiated Emissions (30 – 200 MHz) | ± 2.16 dB |
| Radiated Emissions (200 – 1000 MHz) | ± 2.15 dB |
| Radiated Emissions (1 GHz – 18 GHz) | ± 2.14 dB |
| Radiated Emissions (18 GHz – 40 GHz) | ± 2.31 dB |

Note: The uncertainties provided in this table represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of K=2.

6. Environmental Conditions

Temperature & Humidity

Measurements performed at the test site did not exceed the following:

| Parameter | Measurement |
|---------------------|-------------|
| Temperature | 23 C +/- 5% |
| Humidity | 55% +/- 5% |
| Barometric Pressure | 30.05 in Hg |

Note: Specific environmental conditions that are applicable to a specific test are available in the test result section.



7. List of Test Equipment and Test Facility

The test equipment used identified by type, manufacturer, serial number, or other identification and the date on which the next calibration or service check is due.

Description of the firmware or software used to operate EUT for testing purposes.

A complete list of all test equipment used shall be included with the test report. The manufacturer's model and serial numbers, and date of last calibration, and calibration interval shall be included. Measurement cable loss, measuring instrument bandwidth and detector function, video bandwidth, if appropriate, and antenna factors shall also be included where applicable.

List of Test Equipment

| Test Equipment | | | | | | |
|--------------------|-------------------------------|-----------------|-------------|----------|-------------|------------|
| Type | Device | Manufacturer | Model | SN# | Current Cal | Cal Due |
| Antenna | Double-Ridged Horn/ETS Horn 1 | ETS-Lindgren | 3117 | 00035923 | 5/31/23 | 12/18/2024 |
| CHAMBER | CHAMBER | Panashield | 3M | N/A | 12/29/23 | 12/18/2025 |
| Pre-amp | Pre-amp | RF-LAMBDA | RLNA00M45GA | NA | 7/27/22 | 7/26/2025 |
| Receiver | EMI Test Receiver R&S ESU 40 | Rohde & Schwarz | ESU 40 | 100320 | 9/18/24 | 9/18/2027 |
| Receiver | EMI Test Receiver R&S ESW44 | Rohde & Schwarz | ESW44 | 103049 | 10/13/21 | 12/12/2024 |
| Function Generator | Function Generator | Standford | DS340 | 25200 | 2/22/24 | 2/21/2027 |

| Software | | | |
|----------------|-----------------|--------------------------|---------------|
| Software | Author | Version | Validation on |
| ESU Firmware | Rohde & Schwarz | 4.43 SP3; BIOS v5.1-24-3 | 2018 |
| RSCommander | Rohde & Schwarz | 1.6.4 | 2014 |
| ScopeExplorer | LeCroy | v2.25.0.0 | 2009 |
| Field Strength | Timco | v4.10.7.0 | 2016 |

8. Test Results

The results of the test are usually indicated in the form of tables, spectrum analyzer plots, charts, sample calculations, as appropriate for each test procedure.

A description and/or a block diagram of the test setup is usually provided.

The measurement results, along with the appropriate limits for comparison, may be presented in tabular or graphical form. In addition, any variation in the measurement environment may be reported if applicable (e.g., a significant change of temperature that could affect the cable loss and amplifier response).

Units of measurement

Unless noted otherwise in the referenced standard, the measurements of ac power-line conducted emissions and conducted power output will be reported in units of dB μ V. Unless noted otherwise in the referenced standard, the measurements of radiated emissions will be reported in units of decibels, referenced to one microvolt per meter (dB μ V/m) for electric fields, or to one ampere per meter (dBA/m) for magnetic fields, at the distance specified in the appropriate standards or requirements. The measurements of antenna-conducted power for receivers may be reported in units of dB μ V if the impedance of the measuring instrument is also reported. Otherwise, antenna-conducted power will be reported in units of decibels referenced to one milliwatt (dBm). All formulas for data conversions and conversion factors, if used, will be included in this measurement report.

Example:

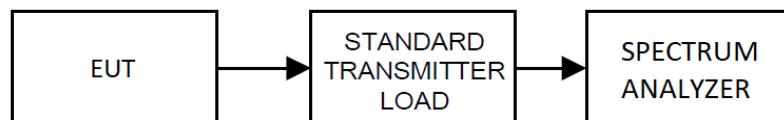
| | | | | |
|------------|---------------|--------------|----------|--------------------------|
| Freq (MHz) | Meter Reading | + ACF | +CL | = FS |
| 33 | 20 dB μ V | + 10.36 dB/m | +0.40 dB | =30.36 dB μ V/m @ 3m |

$$\text{EIRP} = \text{Pcond (dBm)} + \text{dBi}$$

8.1 OCCUPIED BANDWIDTH

Requirements and limits from FCC 2.1049, IC RSS GEN § 6.6. Test method from ANSI C63.10 § 6.9.3

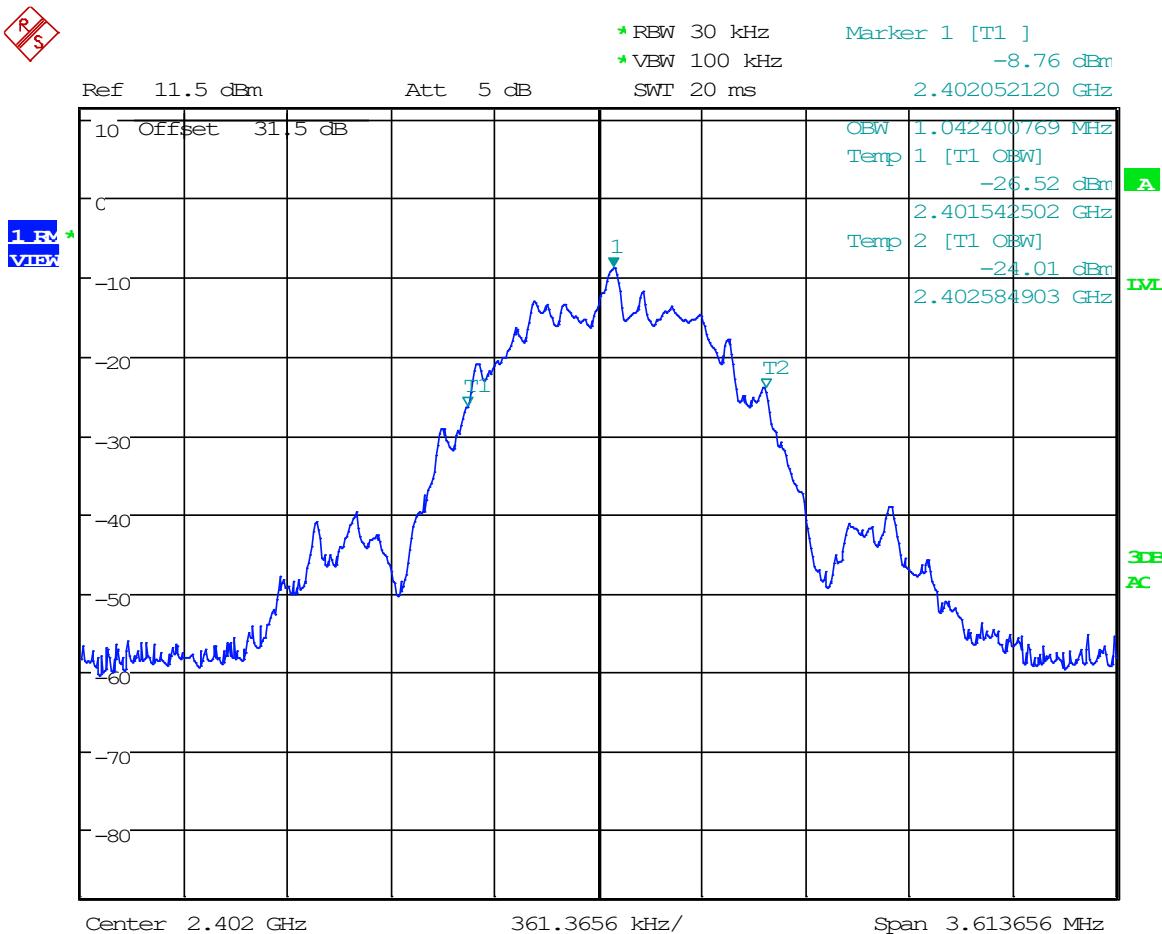
Setup



99% Bandwidth Measurement Table

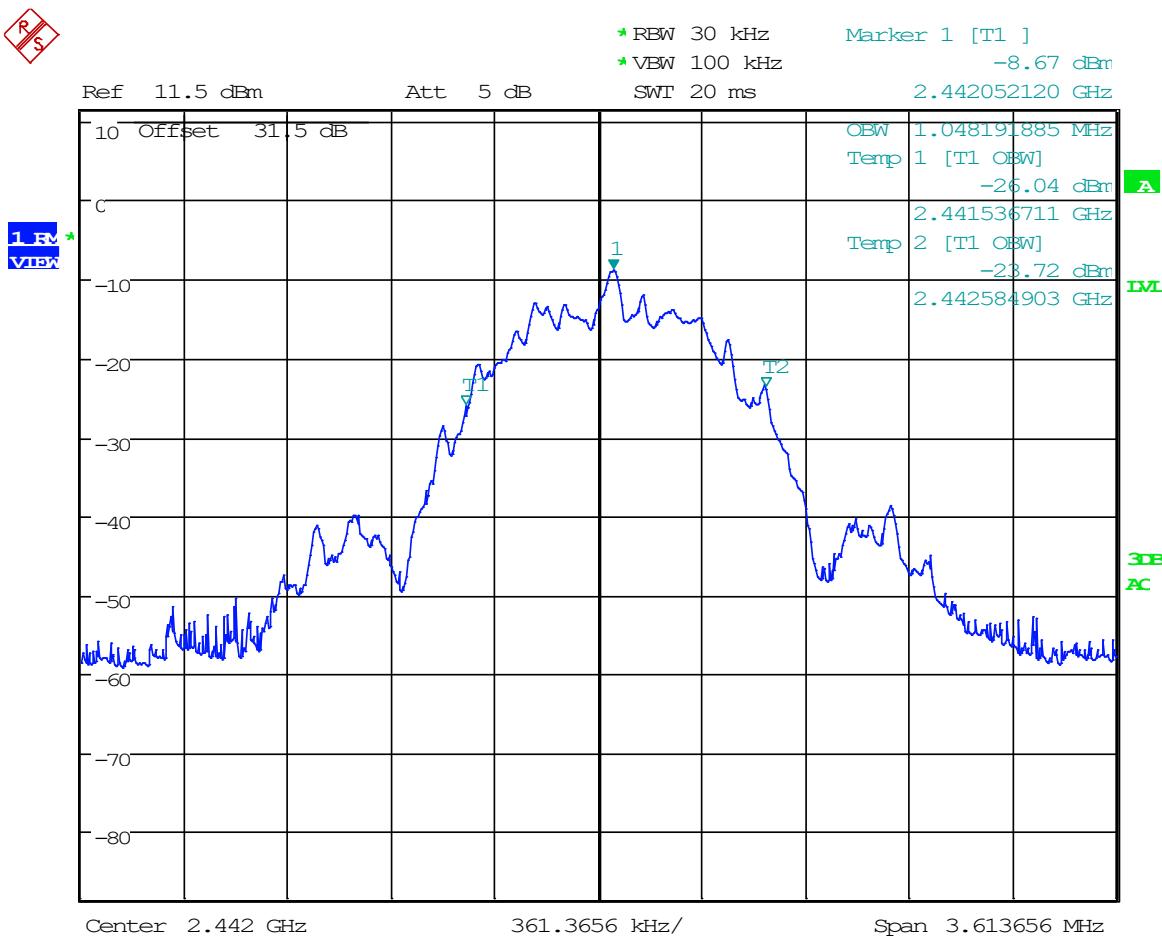
| Mode 1 | |
|-----------------------|------------------------------------|
| Tuned Frequency (MHz) | 99% Occupied Bandwidth Limit (MHz) |
| 2402 | 1.042 |
| 2442 | 1.048 |
| 2480 | 1.048 |

8.1.1 99% Bandwidth Plot, Mode 1, 2402 MHz



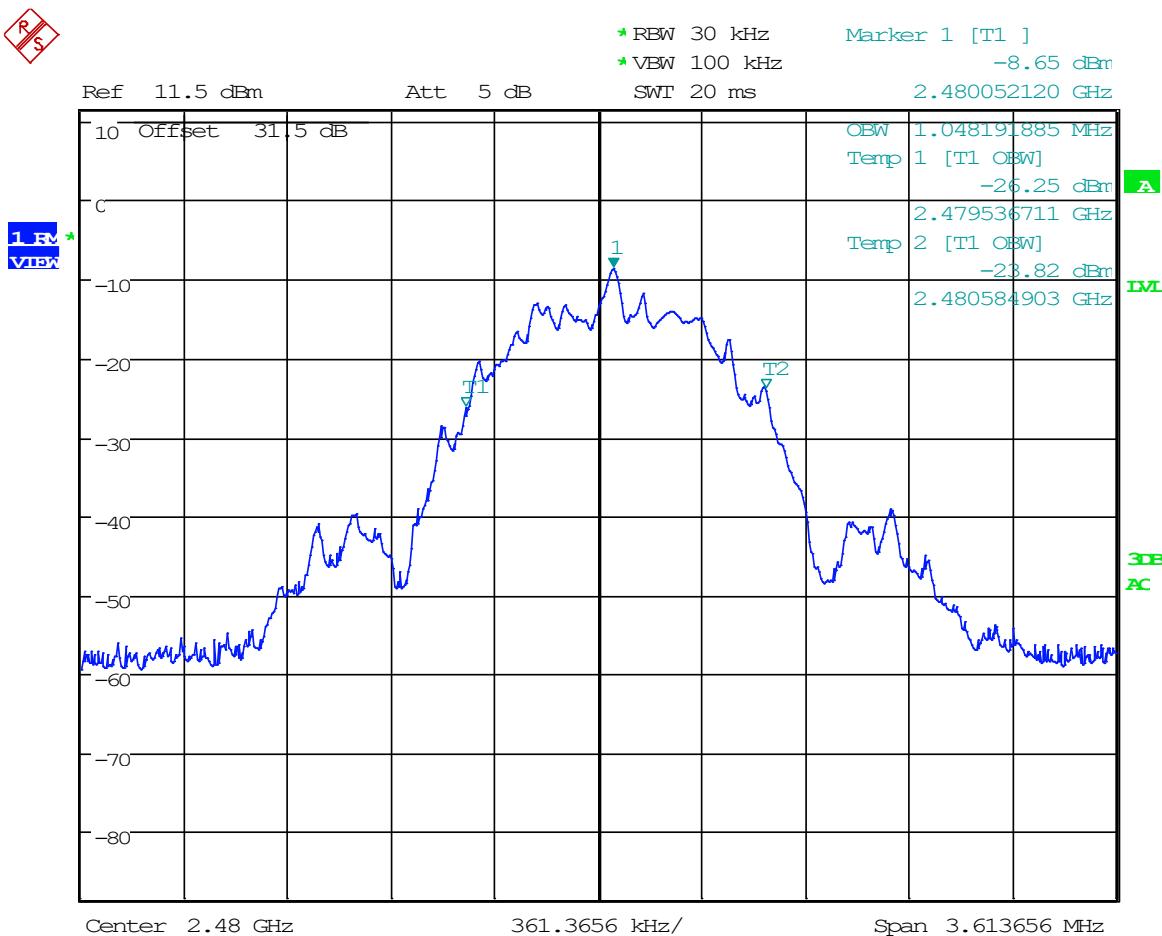
Date: 22.NOV.2024 15:32:01

8.1.2 99% Bandwidth Plot, Mode 1, 2442 MHz



Date: 22.NOV.2024 15:33:58

8.1.3 99% Bandwidth Plot, Mode 1, 2480 MHz



Date: 22.NOV.2024 15:35:25

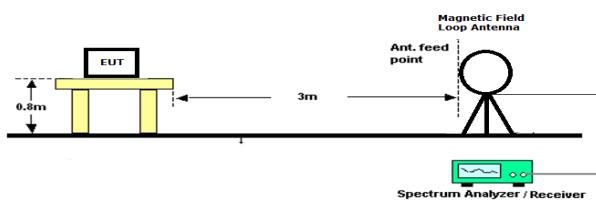
8.2 Radiated Spurious Emissions

Requirements:

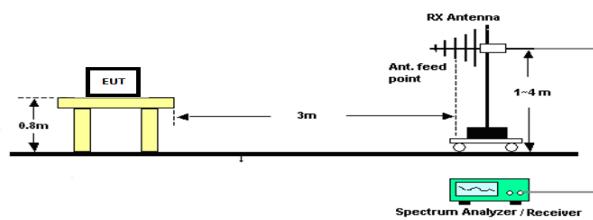
Requirements and limits from FCC part 15.249 (a)(c)(d)(e).

Setup:

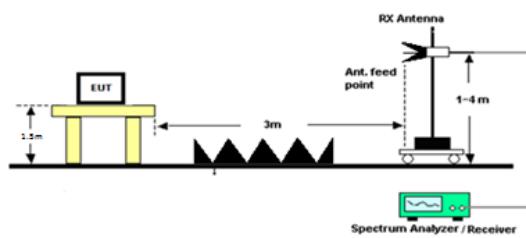
Radiated Test Setup, Below 30 MHz



Radiated Test Setup, 30 – 1000 MHz



Radiated Test Setup, Above 1000 MHz



Radiated Emissions Tabular Data

8.2.1 Fundamental Data

| Tuned Frequency (MHz) | Detector | Meter Reading (dB μ V) | Antenna Polarity | Coax Loss (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------------|----------|----------------------------|------------------|----------------|----------------------------------|--------------|-------------------------------|----------------------|-------------|
| 2402.00 | PK | 37.70 | H | 5.62 | 32.10 | 3.00 | 75.42 | 94.00 | 18.58 |
| 2402.00 | PK | 33.90 | V | 5.62 | 32.10 | 3.00 | 71.62 | 94.00 | 22.38 |
| 2442.00 | PK | 35.60 | H | 5.61 | 32.38 | 3.00 | 73.59 | 94.00 | 20.41 |
| 2442.00 | PK | 34.50 | V | 5.61 | 32.38 | 3.00 | 72.49 | 94.00 | 21.51 |
| 2480.00 | PK | 35.30 | H | 5.62 | 32.39 | 3.00 | 73.31 | 94.00 | 20.69 |
| 2480.00 | PK | 36.10 | V | 5.62 | 32.39 | 3.00 | 74.11 | 94.00 | 19.89 |
| 2480.00 | AV | 20.90 | H | 5.62 | 32.39 | 3.00 | 58.91 | 94.00 | 35.09 |
| 2480.00 | AV | 19.10 | V | 5.62 | 32.39 | 3.00 | 57.11 | 94.00 | 36.89 |

Radiated Emissions Tabular Data

8.2.2 Mode 1 Field Strength at 3 Meters, 2402 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB μ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|----------------------|-------------|
| 2402.00 | 4804.00 | X | PK | -1.10 | H | 7.10 | 0.00 | 34.19 | 3.00 | 40.18 | 73.98 | 33.80 |
| 2402.00 | 4804.00 | X | PK | -1.40 | V | 7.10 | 0.00 | 34.19 | 3.00 | 39.88 | 73.98 | 34.10 |
| 2402.00 | 4804.00 | X | AVG | -15.30 | H | 7.10 | 0.00 | 34.19 | 3.00 | 25.98 | 53.98 | 28.00 |
| 2402.00 | 4804.00 | X | AVG | -15.40 | V | 7.10 | 0.00 | 34.19 | 3.00 | 25.88 | 53.98 | 28.10 |
| 2402.00 | 7206.00 | | PK | 2.50 | H | 9.54 | 0.00 | 36.31 | 3.00 | 48.34 | 53.98 | 5.64 |
| 2402.00 | 7206.00 | | PK | -1.00 | V | 9.54 | 0.00 | 36.31 | 3.00 | 44.84 | 53.98 | 9.14 |
| 2402.00 | 9608.00 | | PK | -0.70 | H | 10.70 | 0.00 | 36.81 | 3.00 | 46.81 | 53.98 | 7.17 |
| 2402.00 | 9608.00 | | PK | -1.00 | V | 10.70 | 0.00 | 36.81 | 3.00 | 46.51 | 53.98 | 7.47 |
| 2402.00 | 12010.00 | X | PK | -2.10 | H | 12.40 | 0.00 | 38.79 | 3.00 | 49.09 | 73.98 | 24.89 |
| 2402.00 | 12010.00 | X | PK | -1.10 | V | 12.40 | 0.00 | 38.79 | 3.00 | 50.09 | 73.98 | 23.89 |
| 2402.00 | 12010.00 | X | AVG | -15.80 | H | 12.40 | 0.00 | 38.79 | 3.00 | 35.39 | 53.98 | 18.59 |
| 2402.00 | 12010.00 | X | AVG | -15.80 | V | 12.40 | 0.00 | 38.79 | 3.00 | 35.39 | 53.98 | 18.59 |
| 2402.00 | 14412.00 | | PK | -2.90 | H | 13.35 | 0.00 | 39.72 | 3.00 | 50.17 | 53.98 | 3.81 |
| 2402.00 | 14412.00 | | PK | -2.90 | V | 13.35 | 0.00 | 39.72 | 3.00 | 50.17 | 53.98 | 3.81 |
| 2402.00 | 16814.00 | | AVG | -15.00 | H | 14.60 | 0.00 | 42.29 | 3.00 | 41.90 | 53.98 | 12.08 |
| 2402.00 | 16814.00 | | AVG | -15.00 | V | 14.60 | 0.00 | 42.29 | 3.00 | 41.90 | 53.98 | 12.08 |
| 2402.00 | 19216.00 | X | PK | -0.20 | H | 16.00 | 0.00 | 16.00 | 3.00 | 31.80 | 73.98 | 42.18 |
| 2402.00 | 19216.00 | X | PK | -0.50 | V | 16.00 | 0.00 | 16.00 | 3.00 | 31.50 | 73.98 | 42.48 |
| 2402.00 | 19216.00 | X | AVG | -14.30 | H | 16.00 | 0.00 | 16.00 | 3.00 | 17.70 | 53.98 | 36.28 |
| 2402.00 | 19216.00 | X | AVG | -14.30 | V | 16.00 | 0.00 | 16.00 | 3.00 | 17.70 | 53.98 | 36.28 |
| 2402.00 | 21618.00 | | PK | 1.20 | H | 16.90 | 0.00 | 16.90 | 3.00 | 35.00 | 53.98 | 18.98 |
| 2402.00 | 21618.00 | | PK | 1.60 | V | 16.90 | 0.00 | 16.90 | 3.00 | 35.40 | 53.98 | 18.58 |
| 2402.00 | 24020.00 | | PK | 4.60 | H | 17.95 | 0.00 | 17.95 | 3.00 | 40.50 | 53.98 | 13.48 |
| 2402.00 | 24020.00 | | PK | 4.40 | V | 17.95 | 0.00 | 17.95 | 3.00 | 40.30 | 53.98 | 13.68 |

8.2.3 Mode 1 Field Strength at 3 Meters, 2442 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB μ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|----------------------|-------------|
| 2442.00 | 4884.00 | X | PK | -0.60 | H | 7.36 | 0.00 | 34.10 | 3.00 | 40.86 | 73.98 | 33.12 |
| 2442.00 | 4884.00 | X | PK | 0.10 | V | 7.36 | 0.00 | 34.10 | 3.00 | 41.56 | 73.98 | 32.42 |
| 2442.00 | 4884.00 | X | AVG | -14.40 | H | 7.36 | 0.00 | 34.10 | 3.00 | 27.06 | 53.98 | 26.92 |
| 2442.00 | 4884.00 | X | AVG | -14.00 | V | 7.36 | 0.00 | 34.10 | 3.00 | 27.46 | 53.98 | 26.52 |
| 2442.00 | 7326.00 | X | PK | 1.20 | H | 9.59 | 0.00 | 36.41 | 3.00 | 47.20 | 73.98 | 26.78 |
| 2442.00 | 7326.00 | X | PK | 0.30 | V | 9.59 | 0.00 | 36.41 | 3.00 | 46.30 | 73.98 | 27.68 |
| 2442.00 | 7326.00 | X | AVG | -13.80 | H | 9.59 | 0.00 | 36.41 | 3.00 | 32.20 | 53.98 | 21.78 |
| 2442.00 | 7326.00 | X | AVG | -14.50 | V | 9.59 | 0.00 | 36.41 | 3.00 | 31.50 | 53.98 | 22.48 |
| 2442.00 | 9768.00 | | PK | -0.80 | H | 11.01 | 0.00 | 37.03 | 3.00 | 47.24 | 53.98 | 6.74 |
| 2442.00 | 9768.00 | | PK | -1.10 | V | 11.01 | 0.00 | 37.03 | 3.00 | 46.94 | 53.98 | 7.04 |
| 2442.00 | 12210.00 | X | PK | -1.60 | H | 12.50 | 0.00 | 39.05 | 3.00 | 49.94 | 73.98 | 24.04 |
| 2442.00 | 12210.00 | X | PK | -1.60 | V | 12.50 | 0.00 | 39.05 | 3.00 | 49.94 | 73.98 | 24.04 |
| 2442.00 | 12210.00 | X | AVG | -16.00 | H | 12.50 | 0.00 | 39.05 | 3.00 | 35.54 | 53.98 | 18.44 |
| 2442.00 | 12210.00 | X | AVG | -15.80 | V | 12.50 | 0.00 | 39.05 | 3.00 | 35.74 | 53.98 | 18.24 |
| 2442.00 | 14652.00 | | PK | -3.60 | H | 13.61 | 0.00 | 39.87 | 3.00 | 49.87 | 53.98 | 4.11 |
| 2442.00 | 14652.00 | | PK | -3.30 | V | 13.61 | 0.00 | 39.87 | 3.00 | 50.17 | 53.98 | 3.81 |
| 2442.00 | 17094.00 | | AVG | -15.30 | H | 14.66 | 0.00 | 41.94 | 3.00 | 41.30 | 53.98 | 12.68 |
| 2442.00 | 17094.00 | | AVG | -15.30 | V | 14.66 | 0.00 | 41.94 | 3.00 | 41.30 | 53.98 | 12.68 |
| 2442.00 | 19536.00 | X | PK | -0.10 | H | 15.61 | 0.00 | 15.61 | 3.00 | 31.12 | 73.98 | 42.86 |
| 2442.00 | 19536.00 | X | PK | 0.20 | V | 15.61 | 0.00 | 15.61 | 3.00 | 31.42 | 73.98 | 42.56 |
| 2442.00 | 19536.00 | X | AVG | -13.90 | H | 15.61 | 0.00 | 15.61 | 3.00 | 17.32 | 53.98 | 36.66 |
| 2442.00 | 19536.00 | X | AVG | -13.80 | V | 15.61 | 0.00 | 15.61 | 3.00 | 17.42 | 53.98 | 36.56 |
| 2442.00 | 21978.00 | | PK | 4.00 | H | 16.97 | 0.00 | 16.97 | 3.00 | 37.95 | 53.98 | 16.03 |
| 2442.00 | 21978.00 | | PK | 4.40 | V | 16.97 | 0.00 | 16.97 | 3.00 | 38.35 | 53.98 | 15.63 |
| 2442.00 | 24420.00 | | PK | 5.80 | H | 18.29 | 0.00 | 18.29 | 3.00 | 42.37 | 53.98 | 11.61 |
| 2442.00 | 24420.00 | | PK | 6.00 | V | 18.29 | 0.00 | 18.29 | 3.00 | 42.57 | 53.98 | 11.41 |

8.2.4 Mode 1 Field Strength at 3 Meters, 2480 MHz

| Tuned Frequency (MHz) | Emission Frequency (MHz) | 15.205 Restricted Band | 15.205, 15.35, 15.247(d) Detector | Meter Reading (dB μ V) | Antenna Polarity | Coax Loss (dB) | Duty Cycle Correction (dB) | Antenna Correction Factor (dB/m) | Distance (m) | Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------------|--------------------------|------------------------|-----------------------------------|----------------------------|------------------|----------------|----------------------------|----------------------------------|--------------|-------------------------------|----------------------|-------------|
| 2480.00 | 4960.00 | X | PK | -0.40 | H | 7.72 | 0.00 | 33.99 | 3.00 | 41.31 | 73.98 | 32.67 |
| 2480.00 | 4960.00 | X | PK | 0.10 | V | 7.72 | 0.00 | 33.99 | 3.00 | 41.81 | 73.98 | 32.17 |
| 2480.00 | 4960.00 | X | AVG | -14.30 | H | 7.72 | 0.00 | 33.99 | 3.00 | 27.41 | 53.98 | 26.57 |
| 2480.00 | 4960.00 | X | AVG | -14.40 | V | 7.72 | 0.00 | 33.99 | 3.00 | 27.31 | 53.98 | 26.67 |
| 2480.00 | 7440.00 | X | PK | -1.20 | H | 9.56 | 0.00 | 36.21 | 3.00 | 44.57 | 73.98 | 29.41 |
| 2480.00 | 7440.00 | X | PK | -1.80 | V | 9.56 | 0.00 | 36.21 | 3.00 | 43.97 | 73.98 | 30.01 |
| 2480.00 | 7440.00 | X | AVG | -15.30 | H | 9.56 | 0.00 | 36.21 | 3.00 | 30.47 | 53.98 | 23.51 |
| 2480.00 | 7440.00 | X | AVG | -15.40 | V | 9.56 | 0.00 | 36.21 | 3.00 | 30.37 | 53.98 | 23.61 |
| 2480.00 | 9920.00 | | PK | -1.50 | H | 11.15 | 0.00 | 37.07 | 3.00 | 46.72 | 53.98 | 7.26 |
| 2480.00 | 9920.00 | | PK | -1.60 | V | 11.15 | 0.00 | 37.07 | 3.00 | 46.62 | 53.98 | 7.36 |
| 2480.00 | 12400.00 | X | PK | -1.20 | H | 12.54 | 0.00 | 39.26 | 3.00 | 50.60 | 73.98 | 23.38 |
| 2480.00 | 12400.00 | X | PK | -1.90 | V | 12.54 | 0.00 | 39.26 | 3.00 | 49.90 | 73.98 | 24.08 |
| 2480.00 | 12400.00 | X | AVG | -15.80 | H | 12.54 | 0.00 | 39.26 | 3.00 | 36.00 | 53.98 | 17.98 |
| 2480.00 | 12400.00 | X | AVG | -15.80 | V | 12.54 | 0.00 | 39.26 | 3.00 | 36.00 | 53.98 | 17.98 |
| 2480.00 | 14880.00 | | PK | -3.30 | H | 13.44 | 0.00 | 40.09 | 3.00 | 50.24 | 53.98 | 3.74 |
| 2480.00 | 14880.00 | | PK | -3.20 | V | 13.44 | 0.00 | 40.09 | 3.00 | 50.34 | 53.98 | 3.64 |
| 2480.00 | 17360.00 | | AVG | -14.20 | H | 15.01 | 0.00 | 41.59 | 3.00 | 42.40 | 53.98 | 11.58 |
| 2480.00 | 17360.00 | | AVG | -14.20 | V | 15.01 | 0.00 | 41.59 | 3.00 | 42.40 | 53.98 | 11.58 |
| 2480.00 | 19840.00 | X | PK | -0.40 | H | 16.21 | 0.00 | 16.21 | 3.00 | 32.03 | 73.98 | 41.95 |
| 2480.00 | 19840.00 | X | PK | -0.50 | V | 16.21 | 0.00 | 16.21 | 3.00 | 31.93 | 73.98 | 42.05 |
| 2480.00 | 19840.00 | X | AVG | -14.40 | H | 16.21 | 0.00 | 16.21 | 3.00 | 18.03 | 53.98 | 35.95 |
| 2480.00 | 19840.00 | X | AVG | -14.40 | V | 16.21 | 0.00 | 16.21 | 3.00 | 18.03 | 53.98 | 35.95 |
| 2480.00 | 22320.00 | X | PK | 1.20 | H | 17.02 | 0.00 | 17.02 | 3.00 | 35.23 | 73.98 | 38.75 |
| 2480.00 | 22320.00 | X | PK | 1.60 | V | 17.02 | 0.00 | 17.02 | 3.00 | 35.63 | 73.98 | 38.35 |
| 2480.00 | 22320.00 | X | AVG | -12.60 | H | 17.02 | 0.00 | 17.02 | 3.00 | 21.43 | 53.98 | 32.55 |
| 2480.00 | 22320.00 | X | AVG | -12.60 | V | 17.02 | 0.00 | 17.02 | 3.00 | 21.43 | 53.98 | 32.55 |
| 2480.00 | 24800.00 | | PK | 7.70 | H | 18.07 | 0.00 | 18.07 | 3.00 | 43.84 | 53.98 | 10.14 |
| 2480.00 | 24800.00 | | PK | 8.80 | V | 18.07 | 0.00 | 18.07 | 3.00 | 44.94 | 53.98 | 9.04 |



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9. ANNEX-B – Test Setup Photographs

Test setup photographs are located in a separate document.

10. History of Test Report Changes

| Test Report # | Revision # | Description | Date of Issue |
|-------------------------|------------|-----------------|---------------|
| TR_16261-24_FCC 15.249_ | 1 | Initial release | 12/2/2024 |
| | | | |
| | | | |



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END OF TEST REPORT
