

# Test Report

**Report No.:** MTi241011011-08E1

**Date of issue:** 2025-01-20

**Applicant:** ALOGIC Corporation Pty Ltd.

**Product name:** Alogic Illuminate Light Bar with 4k Autofocus Camera

**Model(s):** ALCMILSGR, ALCMILSLV

**FCC ID:** 2ATCA-ALCMIL

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.cn>

The test report is only used for customer scientific research, teaching, internal quality control and other purposes, and is for internal reference only.



## Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.
2. The test results in this test report are only responsible for the samples submitted
3. This test report is invalid without the seal and signature of the laboratory.
4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.
5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

## Table of contents

|          |                                                      |           |
|----------|------------------------------------------------------|-----------|
| <b>1</b> | <b>General Description .....</b>                     | <b>5</b>  |
| 1.1      | Description of the EUT .....                         | 5         |
| 1.2      | Description of test modes .....                      | 5         |
| 1.3      | Environmental Conditions .....                       | 6         |
| 1.4      | Description of support units .....                   | 6         |
| 1.5      | Measurement uncertainty .....                        | 6         |
| <b>2</b> | <b>Summary of Test Result .....</b>                  | <b>7</b>  |
| <b>3</b> | <b>Test Facilities and accreditations .....</b>      | <b>8</b>  |
| 3.1      | Test laboratory .....                                | 8         |
| <b>4</b> | <b>List of test equipment.....</b>                   | <b>9</b>  |
| <b>5</b> | <b>Evaluation Results (Evaluation).....</b>          | <b>10</b> |
| 5.1      | Antenna requirement .....                            | 10        |
| <b>6</b> | <b>Radio Spectrum Matter Test Results (RF) .....</b> | <b>11</b> |
| 6.1      | Conducted Emission at AC power line .....            | 11        |
| 6.2      | 20dB Bandwidth.....                                  | 14        |
| 6.3      | Dwell Time .....                                     | 17        |
| 6.4      | Duty Cycle.....                                      | 19        |
| 6.5      | Field Strength of The Fundamental Signal .....       | 23        |
| 6.6      | Radiated Emission (below 1GHz).....                  | 27        |
| 6.7      | Radiated Emission (above 1GHz) .....                 | 31        |
|          | <b>Photographs of the test setup .....</b>           | <b>34</b> |
|          | <b>Photographs of the EUT.....</b>                   | <b>35</b> |

| Test Result Certification  |                                                             |
|----------------------------|-------------------------------------------------------------|
| <b>Applicant:</b>          | ALOGIC Corporation Pty Ltd.                                 |
| <b>Address:</b>            | Level 40, 140 William Street, Melbourne VIC, 3000 Australia |
| <b>Manufacturer:</b>       | ALOGIC Corporation Pty Ltd.                                 |
| <b>Address:</b>            | Level 40, 140 William Street, Melbourne VIC, 3000 Australia |
| <b>Product description</b> |                                                             |
| <b>Product name:</b>       | Alogic Illuminate Light Bar with 4k Autofocus Camera        |
| <b>Trademark:</b>          | ALOGIC                                                      |
| <b>Model name:</b>         | ALCMILSGR                                                   |
| <b>Series Model(s):</b>    | ALCMILSLV                                                   |
| <b>Standards:</b>          | 47 CFR Part 15.231                                          |
| <b>Test Method:</b>        | ANSI C63.10-2020                                            |
| <b>Date of Test</b>        |                                                             |
| <b>Date of test:</b>       | 2024-11-25 to 2025-01-15                                    |
| <b>Test result:</b>        | Pass                                                        |

|                      |   |                   |
|----------------------|---|-------------------|
| <b>Test Engineer</b> | : | <i>Yanice Xie</i> |
|                      |   | (Yanice.Xie)      |
| <b>Reviewed By</b>   | : | <i>David. Lee</i> |
|                      |   | (David Lee)       |
| <b>Approved By</b>   | : | <i>Leon Chen</i>  |
|                      |   | (Leon Chen)       |

## 1 General Description

### 1.1 Description of the EUT

|                            |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| Product name:              | Alogic Illuminate Light Bar with 4k Autofocus Camera                             |
| Model name:                | ALCMILSGR                                                                        |
| Series Model(s):           | ALCMILSLV                                                                        |
| Model difference:          | All the models are the same circuit and module, except the model name and color. |
| Electrical rating:         | Input: DC 5V/1A                                                                  |
| Accessories:               | Cable:<br>Type-C to Type-C cable (1.5m)*1                                        |
| Hardware version:          | DH-4K-008                                                                        |
| Software version:          | Fic760x-DH-PDM-McuVer1.0.8                                                       |
| Test sample(s) number:     | MTi241011011-08S1001                                                             |
| <b>RF specification</b>    |                                                                                  |
| Operating frequency range: | 434MHz                                                                           |
| Channel number:            | 1                                                                                |
| Antenna(s) type:           | Spring Antenna                                                                   |
| Antenna(s) gain:           | 2 dBi                                                                            |

### 1.2 Description of test modes

| No.   | Emission test modes |
|-------|---------------------|
| Mode1 | TX                  |

#### 1.2.1 Operation channel list

##### Test Channel List

##### Operation Band:

|               |
|---------------|
| Channel (MHz) |
| 434           |

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

##### Test Software:

For power setting, refer to below table.

|         |
|---------|
| 434MHz  |
| default |

### 1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

|                       |                  |
|-----------------------|------------------|
| Temperature:          | 15°C ~ 35°C      |
| Humidity:             | 20% RH ~ 75% RH  |
| Atmospheric pressure: | 98 kPa ~ 101 kPa |

### 1.4 Description of support units

| Support equipment list |            |            |              |
|------------------------|------------|------------|--------------|
| Description            | Model      | Serial No. | Manufacturer |
| /                      | /          | /          | /            |
| Support cable list     |            |            |              |
| Description            | Length (m) | From       | To           |
| /                      | /          | /          | /            |

### 1.5 Measurement uncertainty

| Measurement                              | Uncertainty |
|------------------------------------------|-------------|
| Conducted emissions (AMN 150kHz~30MHz)   | ±3.1dB      |
| Occupied channel bandwidth               | ±3 %        |
| Time                                     | ±1 %        |
| Radiated spurious emissions (30MHz~1GHz) | ±4.7dB      |
| Radiated spurious emissions (9kHz~30MHz) | ±4.3dB      |
| Radiated spurious emissions (above 1GHz) | ±5.3dB      |
| Temperature                              | ±1 °C       |
| Humidity                                 | ± 5 %       |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 2 Summary of Test Result

| No. | Item                                     | Requirement                  | Result |
|-----|------------------------------------------|------------------------------|--------|
| 1   | Antenna requirement                      | 47 CFR 15.203                | Pass   |
| 2   | Conducted Emission at AC power line      | 47 CFR 15.207(a)             | Pass   |
| 3   | 20dB Bandwidth                           | 47 CFR 15.231(c)             | Pass   |
| 4   | Dwell Time                               | 47 CFR 15.231(a)(1) & (a)(2) | Pass   |
| 5   | Duty Cycle                               | 47 CFR 15.231(b) & (e)       | Pass   |
| 6   | Field Strength of The Fundamental Signal | 47 CFR 15.231(b)             | Pass   |
| 7   | Radiated Emission (below 1GHz)           | 47 CFR 15.231                | Pass   |
| 8   | Radiated Emission (above 1GHz)           | 47 CFR 15.231                | Pass   |

### 3 Test Facilities and accreditations

#### 3.1 Test laboratory

|                        |                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Test laboratory:       | Shenzhen Microtest Co., Ltd.                                                                                                         |
| Test site location:    | 101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone:             | (86-755)88850135                                                                                                                     |
| Fax:                   | (86-755)88850136                                                                                                                     |
| CNAS Registration No.: | CNAS L5868                                                                                                                           |
| FCC Registration No.:  | 448573                                                                                                                               |
| IC Registration No.:   | 21760                                                                                                                                |
| CABID:                 | CN0093                                                                                                                               |



## 4 List of test equipment

| No.                                                                        | Equipment                            | Manufacturer    | Model       | Serial No. | Cal. date  | Cal. Due   |
|----------------------------------------------------------------------------|--------------------------------------|-----------------|-------------|------------|------------|------------|
| Conducted Emission at AC power line                                        |                                      |                 |             |            |            |            |
| 1                                                                          | EMI Test Receiver                    | Rohde&schwarz   | ESCI3       | 101368     | 2024-03-20 | 2025-03-19 |
| 2                                                                          | Artificial mains network             | Schwarzbeck     | NSLK 8127   | 183        | 2024-03-21 | 2025-03-20 |
| 3                                                                          | Artificial Mains Network             | Rohde & Schwarz | ESH2-Z5     | 100263     | 2024-03-20 | 2025-03-19 |
| 20dB Bandwidth<br>Dwell Time<br>Duty Cycle                                 |                                      |                 |             |            |            |            |
| 1                                                                          | Wideband Radio Communication Tester  | Rohde&schwarz   | CMW500      | 149155     | 2024-03-20 | 2025-03-19 |
| 2                                                                          | ESG Series Analog Ssignal Generator  | Agilent         | E4421B      | GB40051240 | 2024-03-21 | 2025-03-20 |
| 3                                                                          | PXA Signal Analyzer                  | Agilent         | N9030A      | MY51350296 | 2024-03-21 | 2025-03-20 |
| 4                                                                          | Synthesized Sweeper                  | Agilent         | 83752A      | 3610A01957 | 2024-03-21 | 2025-03-20 |
| 5                                                                          | MXA Signal Analyzer                  | Agilent         | N9020A      | MY50143483 | 2024-03-21 | 2025-03-20 |
| 6                                                                          | RF Control Unit                      | Tonscend        | JS0806-1    | 19D8060152 | 2024-03-21 | 2025-03-20 |
| 7                                                                          | Band Reject Filter Group             | Tonscend        | JS0806-F    | 19D8060160 | 2024-03-21 | 2025-03-20 |
| 8                                                                          | ESG Vector Signal Generator          | Agilent         | N5182A      | MY50143762 | 2024-03-20 | 2025-03-19 |
| 9                                                                          | DC Power Supply                      | Agilent         | E3632A      | MY40027695 | 2024-03-21 | 2025-03-20 |
| Field Strength of The Fundamental Signal<br>Radiated Emission (below 1GHz) |                                      |                 |             |            |            |            |
| 1                                                                          | EMI Test Receiver                    | Rohde&schwarz   | ESCI7       | 101166     | 2024-03-20 | 2025-03-19 |
| 2                                                                          | TRILOG Broadband Antenna             | schwarabeck     | VULB 9163   | 9163-1338  | 2023-06-11 | 2025-06-10 |
| 3                                                                          | Active Loop Antenna                  | Schwarzbeck     | FMZB 1519 B | 00066      | 2024-03-23 | 2025-03-22 |
| 4                                                                          | Amplifier                            | Hewlett-Packard | 8447F       | 3113A06184 | 2024-03-20 | 2025-03-19 |
| Radiated Emission (above 1GHz)                                             |                                      |                 |             |            |            |            |
| 1                                                                          | EMI Test Receiver                    | Rohde&schwarz   | ESCI7       | 101166     | 2024-03-20 | 2025-03-19 |
| 2                                                                          | Double Ridged Broadband Horn Antenna | schwarabeck     | BBHA 9120 D | 2278       | 2023-06-17 | 2025-06-16 |
| 3                                                                          | Amplifier                            | Agilent         | 8449B       | 3008A01120 | 2024-03-20 | 2025-03-19 |
| 4                                                                          | MXA signal analyzer                  | Agilent         | N9020A      | MY54440859 | 2024-03-21 | 2025-03-20 |
| 5                                                                          | PXA Signal Analyzer                  | Agilent         | N9030A      | MY51350296 | 2024-03-21 | 2025-03-20 |
| 6                                                                          | Horn antenna                         | Schwarzbeck     | BBHA 9170   | 00987      | 2023-06-17 | 2025-06-16 |
| 7                                                                          | Pre-amplifier                        | Space-Dtronics  | EWLAN1840 G | 210405001  | 2024-03-21 | 2025-03-20 |

## 5 Evaluation Results (Evaluation)

### 5.1 Antenna requirement

|                   |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 5.1.1 Conclusion:

The antenna of the EUT is permanently attached.  
The EUT complies with the requirement of FCC PART 15.203.

## 6 Radio Spectrum Matter Test Results (RF)

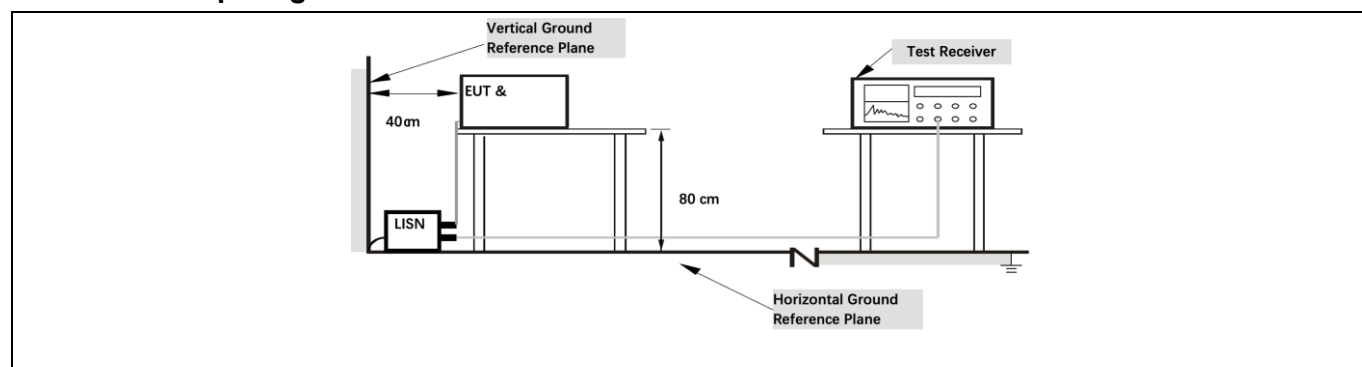
### 6.1 Conducted Emission at AC power line

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                          | Conducted limit (dB $\mu$ V) |           |
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Quasi-peak                   | Average   |
|                   | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                             | 66 to 56*                    | 56 to 46* |
|                   | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                | 56                           | 46        |
|                   | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60                           | 50        |
|                   | *Decreases with the logarithm of the frequency.                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
| Test Method:      | ANSI C63.10-2020 section 6.2                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |           |
| Procedure:        | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices                                                                                                                                                                                                                                                                                                                   |                              |           |

#### 6.1.1 E.U.T. Operation:

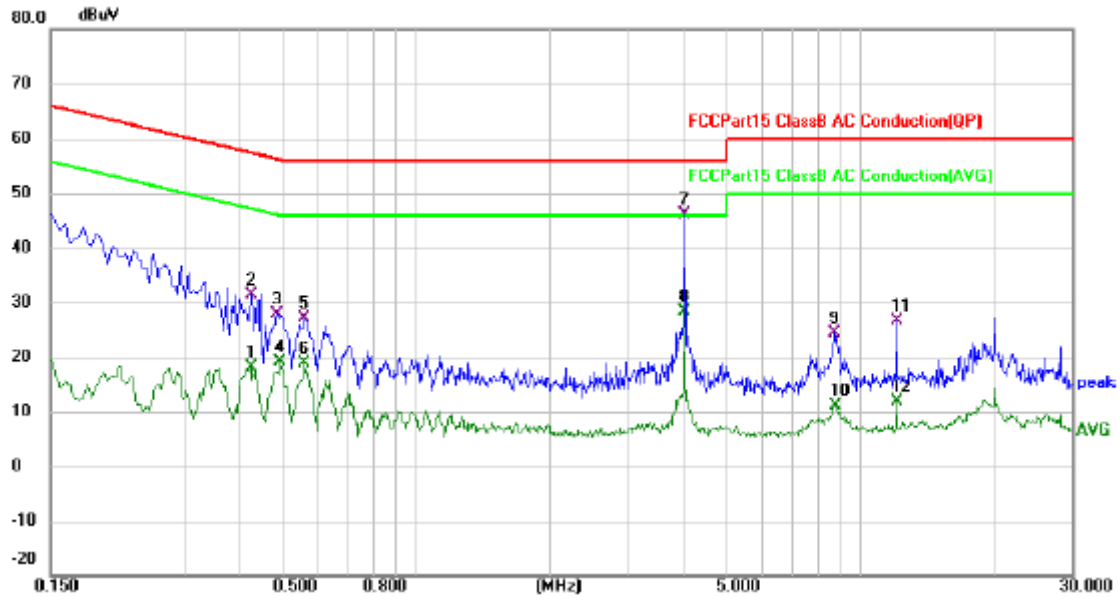
|                        |       |           |      |                       |         |
|------------------------|-------|-----------|------|-----------------------|---------|
| Operating Environment: |       |           |      |                       |         |
| Temperature:           | 26 °C | Humidity: | 41 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1 |           |      |                       |         |
| Final test mode:       | Mode1 |           |      |                       |         |

#### 6.1.2 Test Setup Diagram:



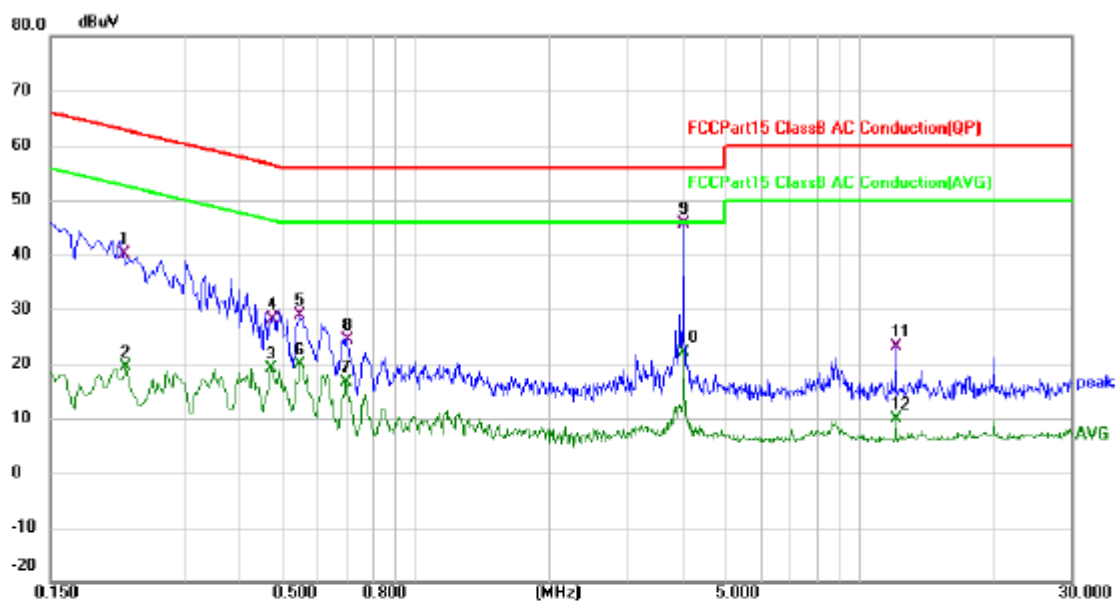
**6.1.3 Test Data:**

Mode1 / Line: Line



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.4220       | 7.66                     | 10.40                   | 18.06                    | 47.41         | -29.35     | AVG      |         |
| 2   |     | 0.4260       | 20.94                    | 10.41                   | 31.35                    | 57.33         | -25.98     | QP       |         |
| 3   |     | 0.4860       | 17.39                    | 10.43                   | 27.82                    | 56.24         | -28.42     | QP       |         |
| 4   |     | 0.4940       | 8.71                     | 10.43                   | 19.14                    | 46.10         | -26.96     | AVG      |         |
| 5   |     | 0.5620       | 16.64                    | 10.44                   | 27.08                    | 56.00         | -28.92     | QP       |         |
| 6   |     | 0.5620       | 8.36                     | 10.44                   | 18.80                    | 46.00         | -27.20     | AVG      |         |
| 7   | *   | 4.0260       | 35.58                    | 10.57                   | 46.15                    | 56.00         | -9.85      | QP       |         |
| 8   |     | 4.0260       | 17.87                    | 10.57                   | 28.44                    | 46.00         | -17.56     | AVG      |         |
| 9   |     | 8.7299       | 13.76                    | 10.65                   | 24.41                    | 60.00         | -35.59     | QP       |         |
| 10  |     | 8.8300       | 0.36                     | 10.65                   | 11.01                    | 50.00         | -38.99     | AVG      |         |
| 11  |     | 12.0740      | 15.90                    | 10.80                   | 26.70                    | 60.00         | -33.30     | QP       |         |
| 12  |     | 12.0740      | 1.20                     | 10.80                   | 12.00                    | 50.00         | -38.00     | AVG      |         |

Mode1 / Line: Neutral



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.2180       | 29.70                    | 10.31                   | 40.01                    | 62.89         | -22.88     | QP       |         |
| 2   |     | 0.2220       | 9.07                     | 10.31                   | 19.38                    | 52.74         | -33.36     | AVG      |         |
| 3   |     | 0.4700       | 8.76                     | 10.42                   | 19.18                    | 46.51         | -27.33     | AVG      |         |
| 4   |     | 0.4740       | 17.62                    | 10.42                   | 28.04                    | 56.44         | -28.40     | QP       |         |
| 5   |     | 0.5500       | 18.41                    | 10.44                   | 28.85                    | 56.00         | -27.15     | QP       |         |
| 6   |     | 0.5500       | 9.49                     | 10.44                   | 19.93                    | 46.00         | -26.07     | AVG      |         |
| 7   |     | 0.6940       | 6.25                     | 10.48                   | 16.73                    | 46.00         | -29.27     | AVG      |         |
| 8   |     | 0.6980       | 13.88                    | 10.48                   | 24.36                    | 56.00         | -31.64     | QP       |         |
| 9   | *   | 4.0260       | 35.03                    | 10.57                   | 45.60                    | 56.00         | -10.40     | QP       |         |
| 10  |     | 4.0260       | 11.66                    | 10.57                   | 22.23                    | 46.00         | -23.77     | AVG      |         |
| 11  |     | 12.0700      | 12.21                    | 10.80                   | 23.01                    | 60.00         | -36.99     | QP       |         |
| 12  |     | 12.0700      | -0.86                    | 10.80                   | 9.94                     | 50.00         | -40.06     | AVG      |         |

## 6.2 20dB Bandwidth

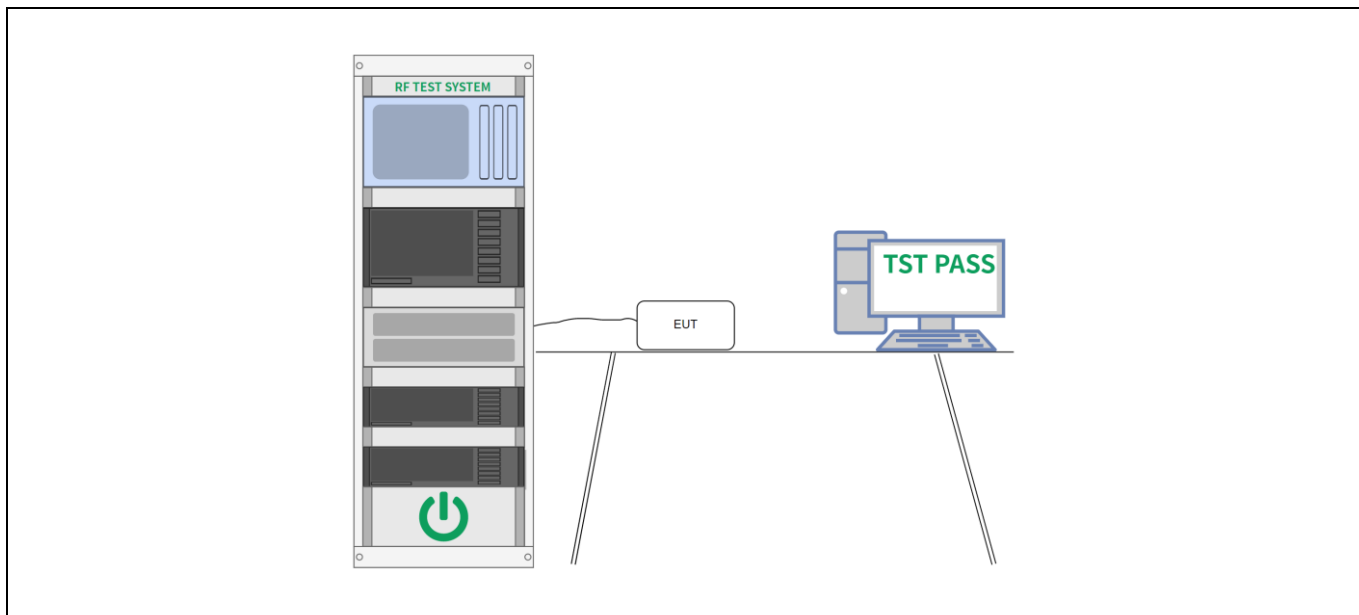
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.231(c)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | ANSI C63.10-2020, section 6.9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Procedure:        | <p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.<br/>The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - xx]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “ixx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value,</p> |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “ixx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.2.1 E.U.T. Operation:

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 22.6 °C | Humidity: | 60 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

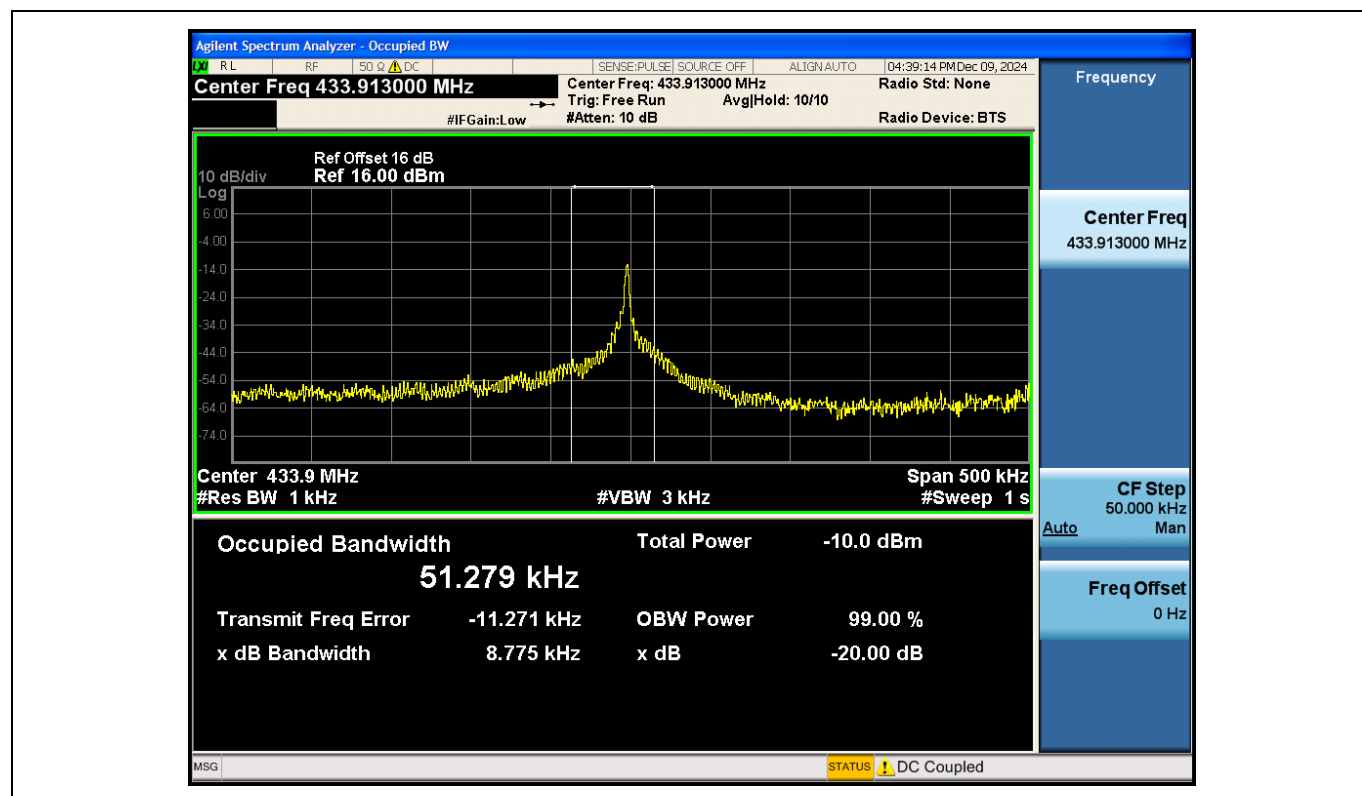
#### 6.2.2 Test Setup Diagram:



### 6.2.3 Test Data:

| Frequency (MHz) | 20dB emission bandwidth (kHz) | Limit (MHz)  |
|-----------------|-------------------------------|--------------|
| 433.913         | 51.279                        | $\leq 1.045$ |

Test plots as below





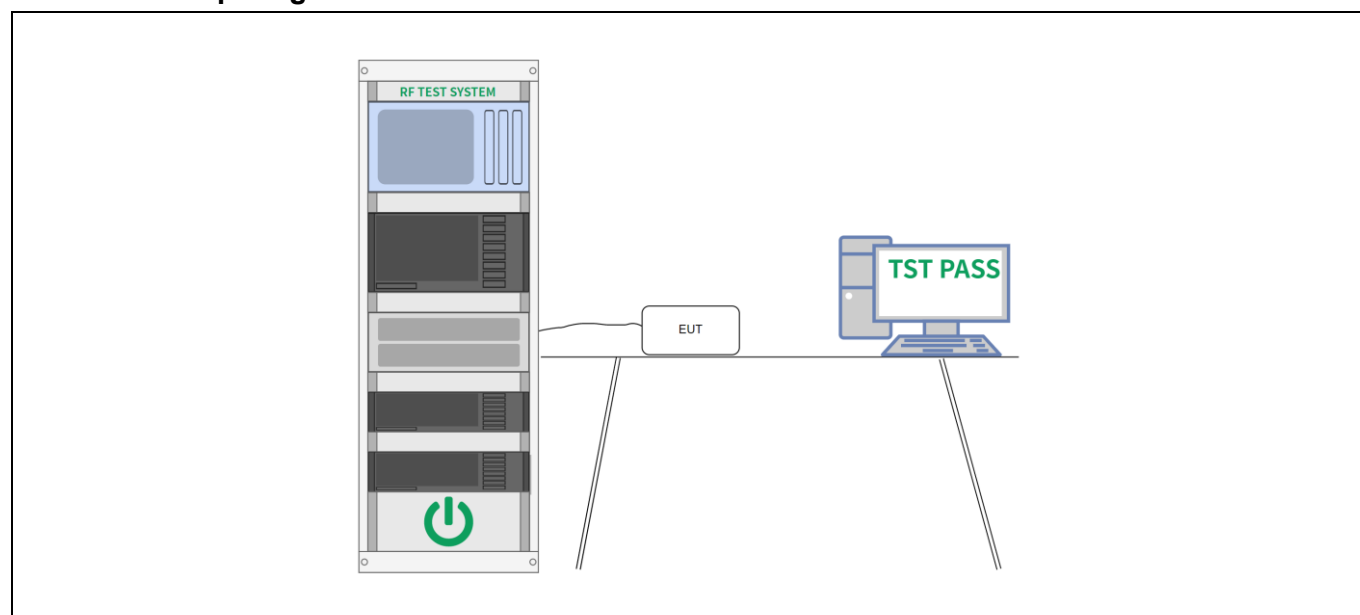
### 6.3 Dwell Time

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.231(a)(1) & (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | <p>(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.</p> <p>(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | ANSI C63.10-2020, Section 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Procedure:        | <p>For evaluation of periodic operation characteristics, the following procedure may be used:</p> <p>a) Trigger the spectrum analyzer sweep on the RF waveform of the unlicensed wireless device.</p> <p>b) Set the spectrum analyzer sweep time greater than the specified time for periodic operation.</p> <p>c) Manually activate and deactivate the unlicensed wireless device and confirm that it ceases transmission within the specified time of deactivation.</p> <p>d) Document the test results.</p> <p>e) Verify and document that periodic transmissions at regular predetermined intervals do not exist, except where regulatory requirements allow polling or supervision transmissions, including data, to determine system integrity. Compliance is addressed by an attestation supported by the equipment theory of operation.</p> |

#### 6.3.1 E.U.T. Operation:

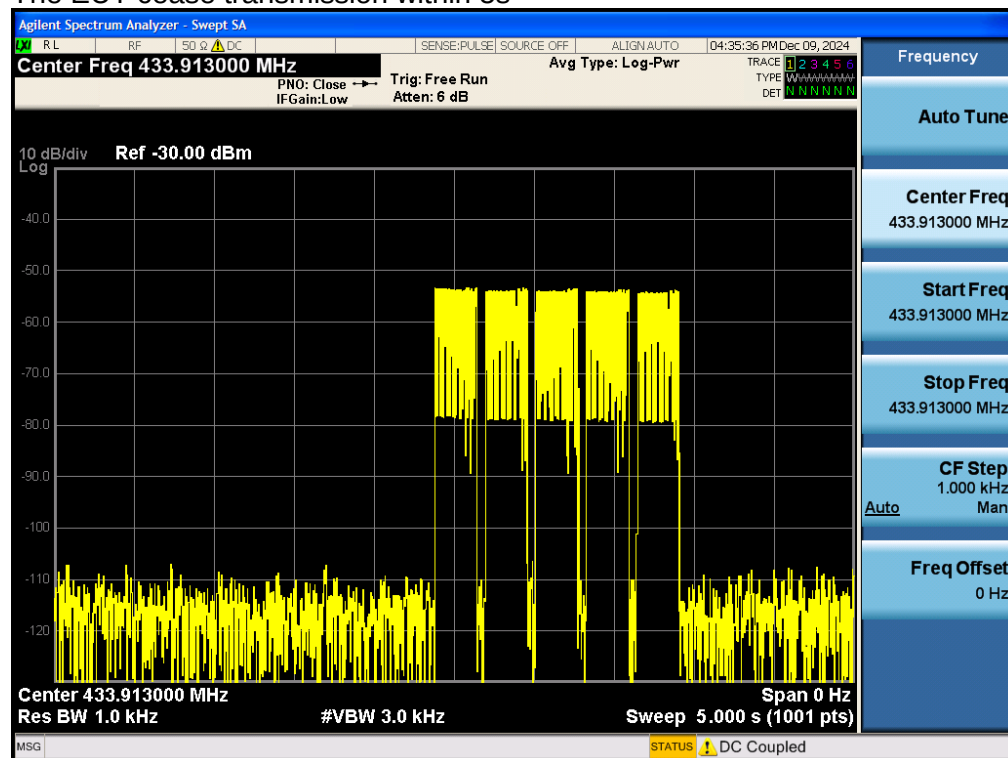
|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 22.6 °C | Humidity: | 60 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

#### 6.3.2 Test Setup Diagram:



### 6.3.3 Test Data:

The EUT cease transmission within 5s



## 6.4 Duty Cycle

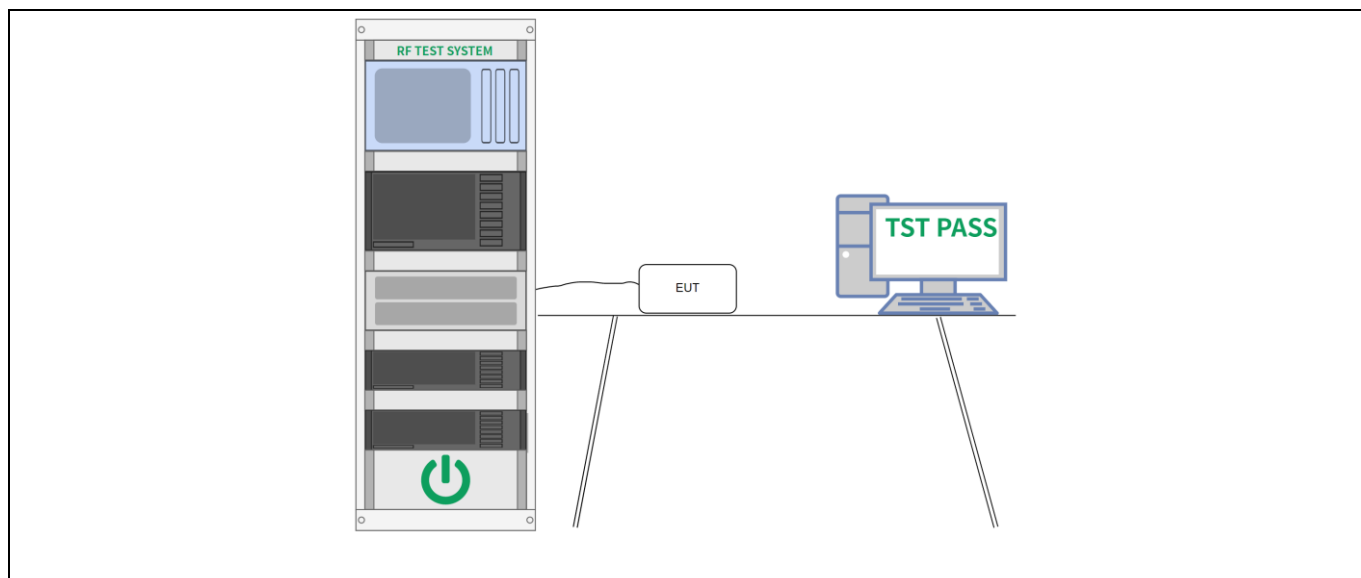
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.231(b) & (e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | No limit, only for Report Use.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Method:      | ANSI C63.10-2020, Section 7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Procedure:        | <p>a) Adjust and configure any EUT switches, controls, or input data streams to ensure that the EUT is transmitting or encoded to obtain the “worst-case” pulse ON time.</p> <p>b) Couple the final radio frequency output signal to the input of a spectrum analyzer. This may be performed by a radiated, direct connection (i.e., conducted) or by a “near-field” coupling method. The signal received shall be of sufficient level to trigger adequately the spectrum analyzer sweep display. NOTE—If the bandwidth of the pulse is greater than the RBW of the spectrum analyzer, then a similar measurement may be performed using a wideband digital storage oscilloscope (DSO).</p> <p>c) Adjust the center frequency of the spectrum analyzer to the center of the RF signal.</p> <p>d) Set the spectrum analyzer for ZERO SPAN.</p> <p>e) Adjust the SWEEP TIME to obtain at least a 100 ms period of time on the horizontal display axis of the spectrum analyzer.</p> <p>f) If the pulse train is periodic (i.e., consists of a series of pulses that repeat in a characteristic pattern over a constant time period), and the period (T) is less than or equal to 100 ms, then:</p> <ol style="list-style-type: none"> <li>1) Set the TRIGGER on the spectrum analyzer to capture at least one period of the pulse train, including any blanking intervals.</li> <li>2) Determine the total maximum pulse “ON time” (<math>t_{ON}</math>) over one period of the pulse train. An example of a periodic pulse train and the associated period is shown in Figure 14. If the pulse train contains pulses of different widths, then <math>t_{ON}</math> is determined by summing the duration of all of the pulses within the pulse train [i.e., <math>t_{ON} = \Sigma(t_1 + t_2 + \dots t_n)</math>].</li> <li>3) The duty cycle is then determined by dividing the total maximum “ON time” by the period of the pulse train (<math>t_{ON}/T</math>).</li> </ol> <p>g) If the pulse train is nonperiodic or is periodic with a period that exceeds 100 ms, or as an alternative to step f), then:</p> <ol style="list-style-type: none"> <li>1) Set the TRIGGER on the spectrum analyzer to capture the greatest amount of pulse “ON time” over 100 ms.</li> <li>2) Find the 100 ms period that contains the maximum “on time”; this may require summing the duration of multiple pulses as described in step f2).</li> <li>3) Determine the duty cycle by dividing the total maximum “ON time” by 100 ms (<math>t_{ON}/100</math> ms).</li> </ol> |

### 6.4.1 E.U.T. Operation:

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 22.6 °C | Humidity: | 60 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |

### 6.4.2 Test Setup Diagram:

|  |
|--|
|  |
|--|



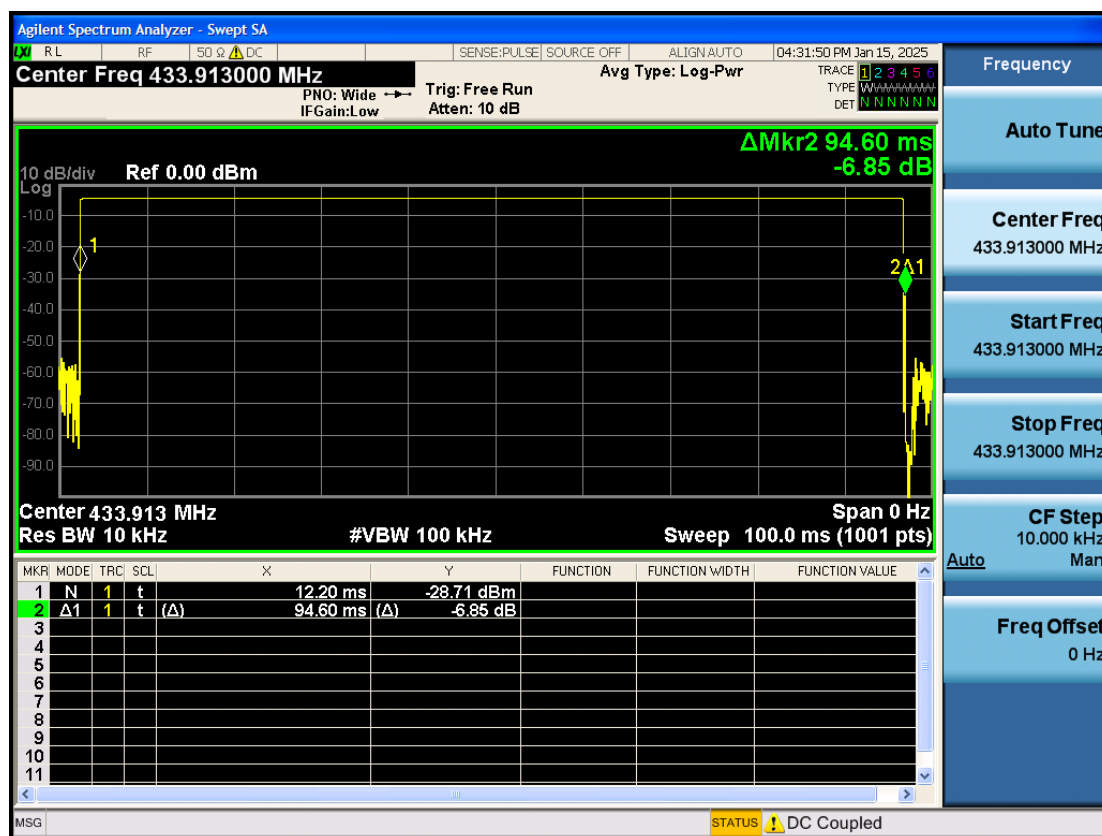
### 6.4.3 Test Data:

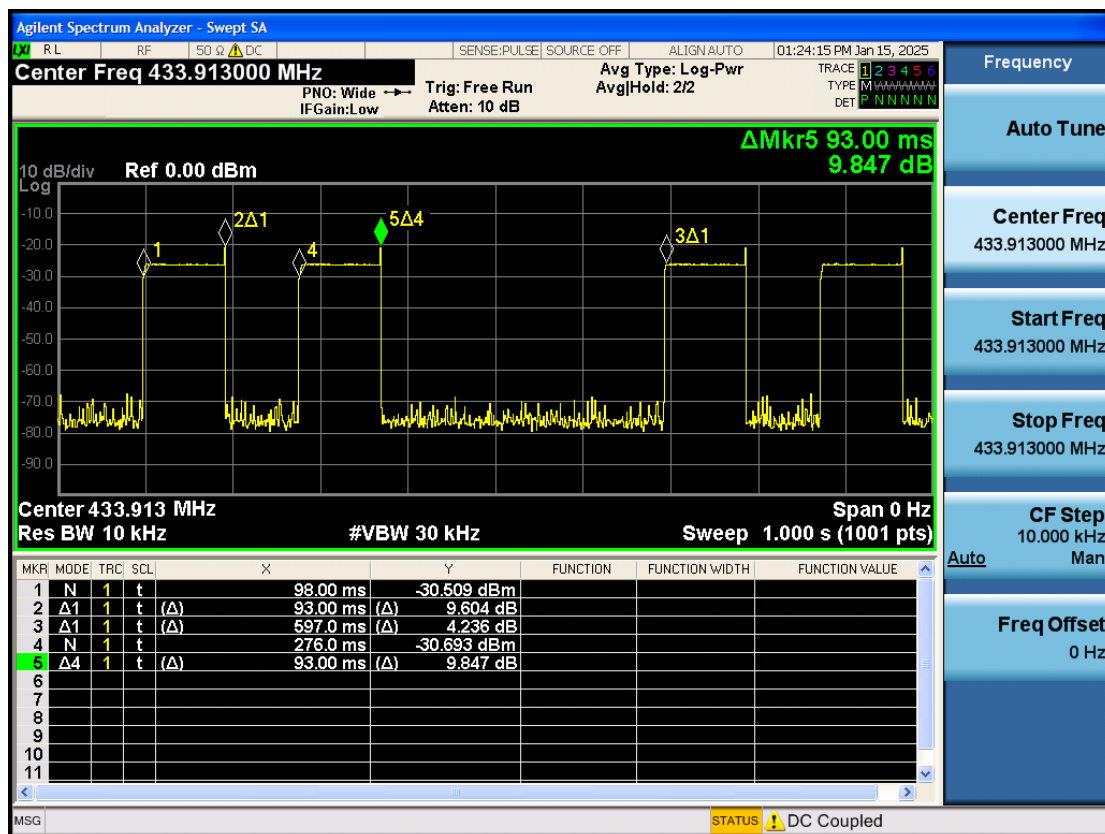
| $T_{on}$ time (ms) | Period (ms) | Duty cycle (Linear) | Duty cycle correction factor (dB) |
|--------------------|-------------|---------------------|-----------------------------------|
| 94.6               | 100         | 0.946               | -0.48                             |

Note:

Duty cycle=  $T_{on}$  time/T

Duty cycle correction factor =  $20 * \log$  (Duty cycle)





## 6.5 Field Strength of The Fundamental Signal

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                                                         |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|
| Test Requirement: | 47 CFR 15.231(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                  |                                                         |
| Test Limit:       | Fundamental frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|                   | 40.66-40.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2,250                                            | 225                                                     |
|                   | 70-130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1,250                                            | 125                                                     |
|                   | 130-174                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <sup>1</sup> 1,250 to 3,750                      | <sup>1</sup> 125 to 375                                 |
|                   | 174-260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3,750                                            | 375                                                     |
|                   | 260-470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <sup>1</sup> 3,750 to 12,500                     | <sup>1</sup> 375 to 1,250                               |
|                   | Above 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 12,500                                           | 1,250                                                   |
|                   | <sup>1</sup> Linear interpolations.<br><br>(1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |                                                         |
| Test Method:      | ANSI C63.10-2020, Section 6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |                                                         |
| Procedure:        | Below 1GHz:<br>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.<br>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.<br>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.<br>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.<br>i. Repeat above procedures until all frequencies measured was complete.<br>Remark:<br>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor<br>2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.<br>3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. |                                                  |                                                         |

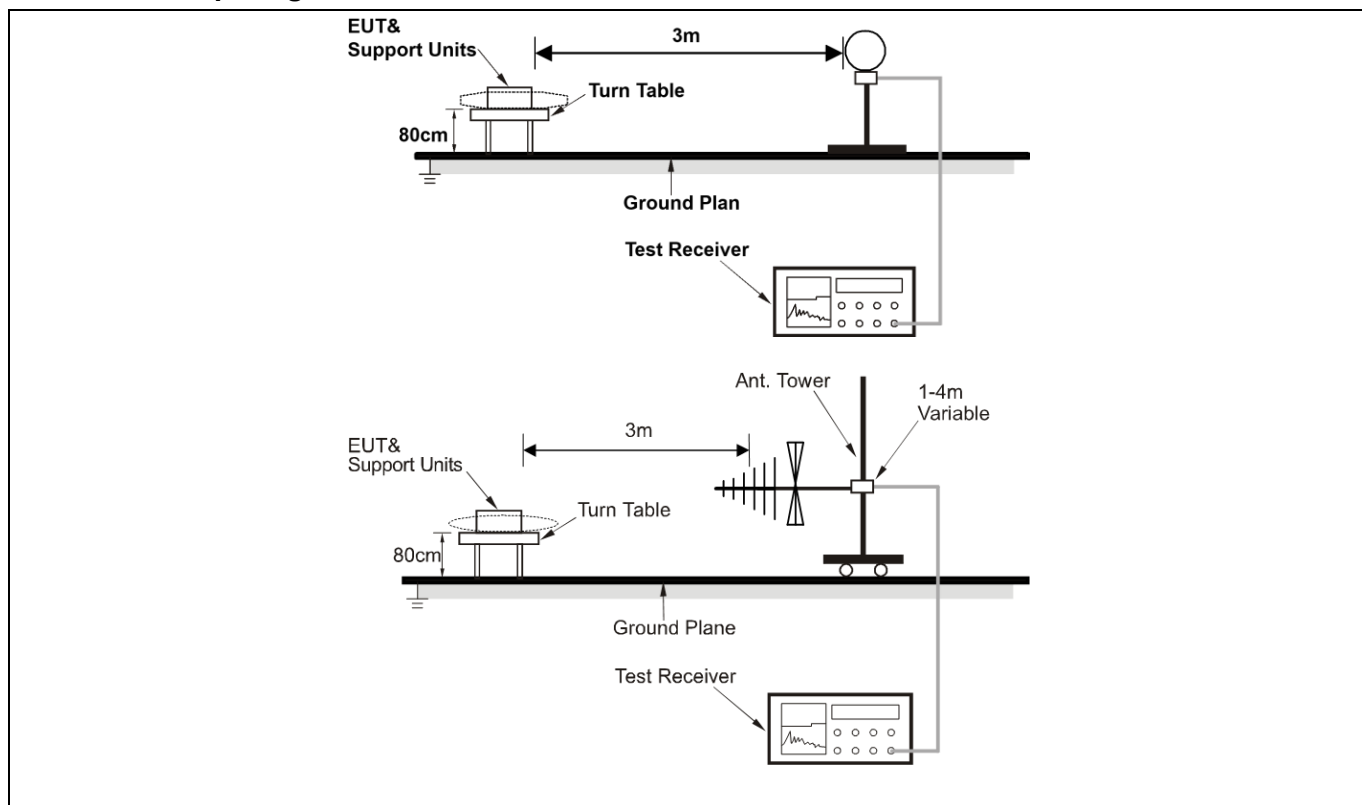
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.5.1 E.U.T. Operation:

|                        |         |           |      |                       |         |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: |         |           |      |                       |         |
| Temperature:           | 22.6 °C | Humidity: | 60 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1   |           |      |                       |         |
| Final test mode:       | Mode1   |           |      |                       |         |



### 6.5.2 Test Setup Diagram:



### 6.5.3 Test Data:

| Frequency | Reading Level | Correct Factor | Measurement | Limit    | Margin | Detector |
|-----------|---------------|----------------|-------------|----------|--------|----------|
| (MHz)     | (dBμV)        | dB/m           | (dBμV/m)    | (dBμV/m) | dB     | (MHz)    |
| 433.913   | 81.68         | -10.60         | 71.08       | 100.90   | -29.82 | Peak     |
| 433.913   | --            | --             | 70.60       | 80.90    | -10.30 | AVG      |

Notes: AVG Measurement (dBμV/m) = Peak Measurement (dBμV/m) + Duty cycle correction factor (dB)

## 6.6 Radiated Emission (below 1GHz)

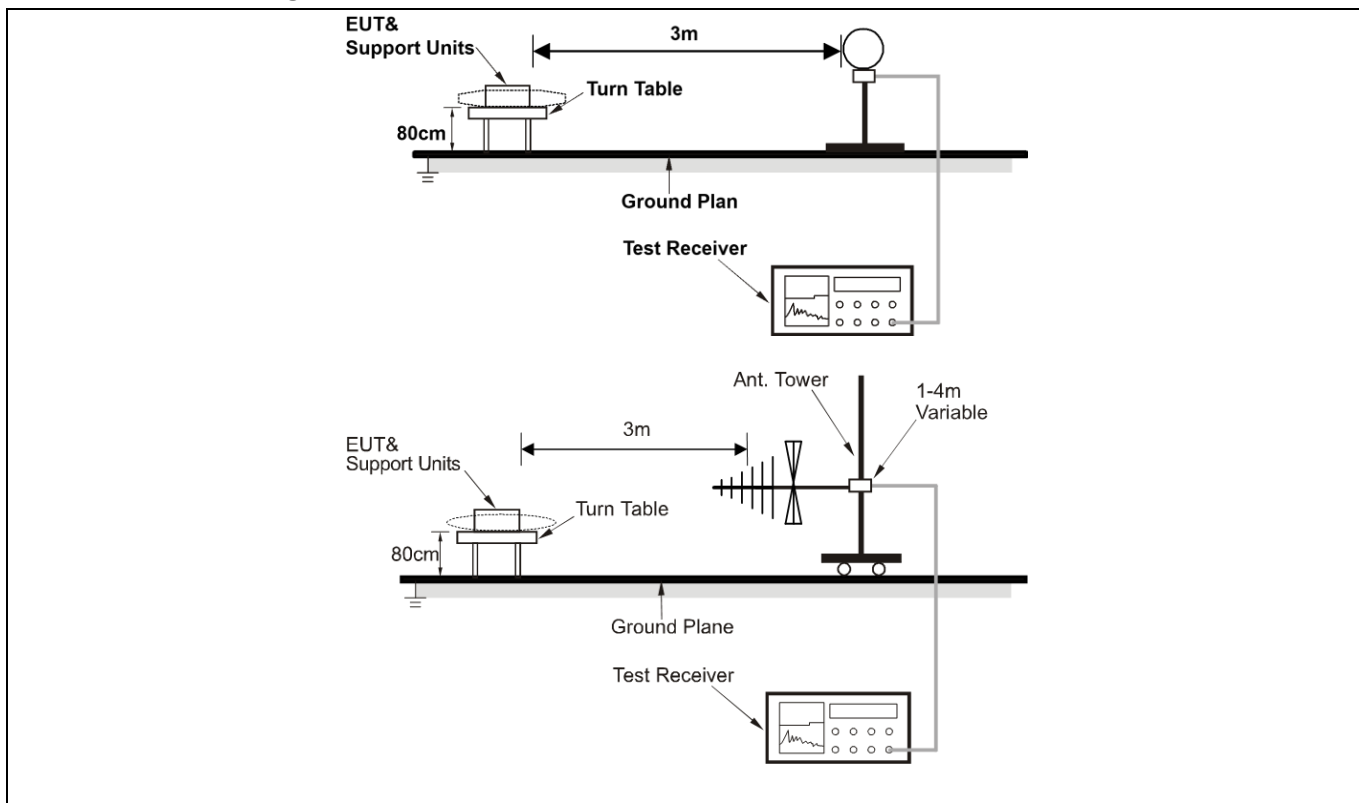
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47 CFR 15.231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANSI C63.10-2020, Section 6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> |                                   |                               |

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

### 6.6.1 E.U.T. Operation:

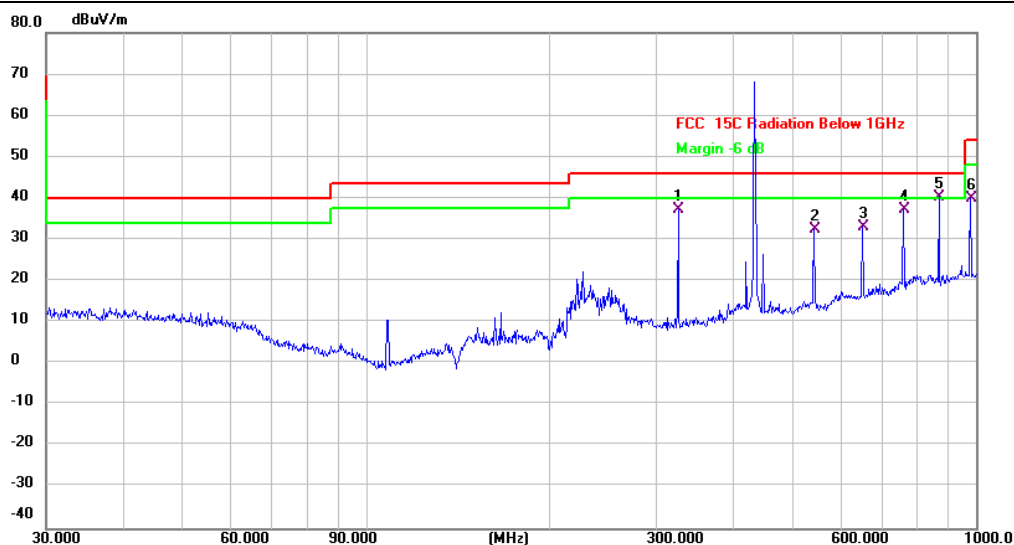
|                        |       |           |      |                       |         |
|------------------------|-------|-----------|------|-----------------------|---------|
| Operating Environment: |       |           |      |                       |         |
| Temperature:           | 26 °C | Humidity: | 56 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1 |           |      |                       |         |
| Final test mode:       | Mode1 |           |      |                       |         |

### 6.6.2 Test Setup Diagram:



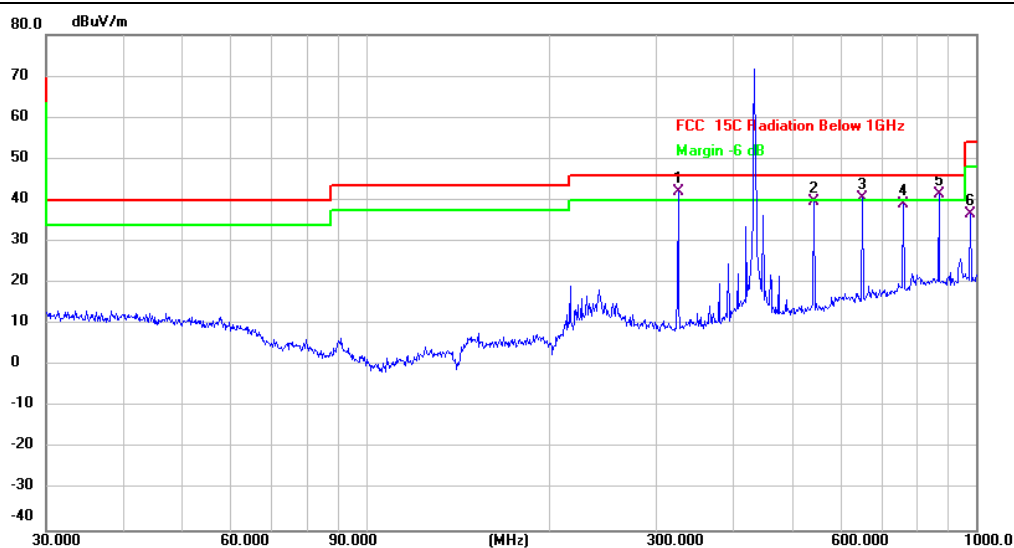
### 6.6.3 Test Data:

Mode1 / Polarization: Horizontal



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1       | 325.5957     | 54.12                    | -16.78                  | 37.34                      | 46.00           | -8.66      | QP       |         |
| 2       | 543.2741     | 45.81                    | -13.36                  | 32.45                      | 46.00           | -13.55     | QP       |         |
| 3       | 651.9416     | 43.26                    | -10.19                  | 33.07                      | 46.00           | -12.93     | QP       |         |
| 4       | 760.7034     | 45.15                    | -7.88                   | 37.27                      | 46.00           | -8.73      | QP       |         |
| 5 *     | 869.1301     | 46.52                    | -6.37                   | 40.15                      | 46.00           | -5.85      | QP       |         |
| 6       | 979.1803     | 44.14                    | -4.33                   | 39.81                      | 54.00           | -14.19     | QP       |         |

## Mode1 / Polarization: Vertical



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   | *   | 325.5957     | 56.08                    | -14.11                  | 41.97                      | 46.00           | -4.03      | QP       |         |
| 2   |     | 543.2740     | 52.58                    | -12.95                  | 39.63                      | 46.00           | -6.37      | QP       |         |
| 3   | !   | 651.9415     | 51.08                    | -10.52                  | 40.56                      | 46.00           | -5.44      | QP       |         |
| 4   |     | 760.7033     | 47.23                    | -8.23                   | 39.00                      | 46.00           | -7.00      | QP       |         |
| 5   | !   | 869.1300     | 47.71                    | -6.24                   | 41.47                      | 46.00           | -4.53      | QP       |         |
| 6   |     | 979.1802     | 41.75                    | -5.01                   | 36.74                      | 54.00           | -17.26     | QP       |         |

## 6.7 Radiated Emission (above 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 47 CFR 15.231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ANSI C63.10-2020, Section 6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> |                                   |                               |

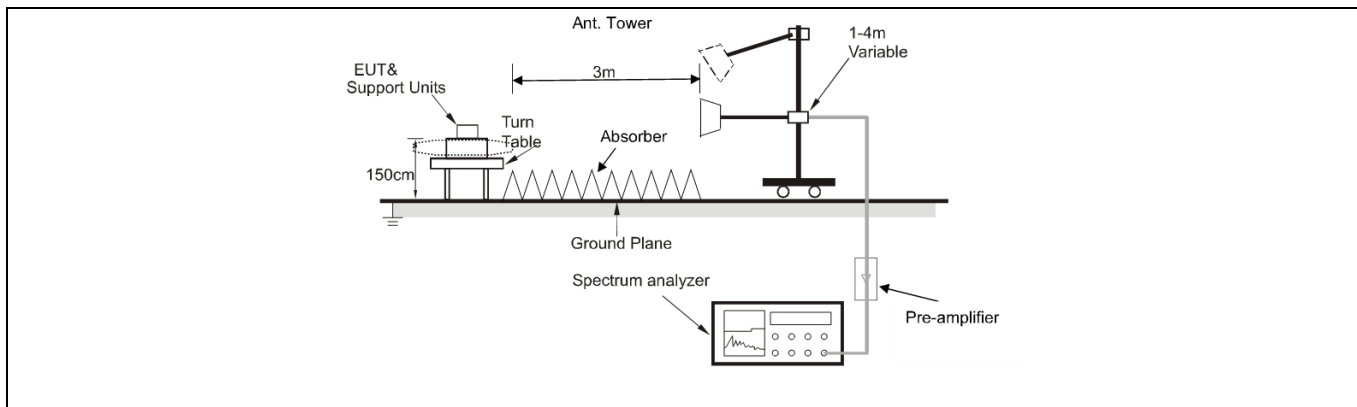
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

### 6.7.1 E.U.T. Operation:

|                        |       |           |      |                       |         |
|------------------------|-------|-----------|------|-----------------------|---------|
| Operating Environment: |       |           |      |                       |         |
| Temperature:           | 26 °C | Humidity: | 56 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | Mode1 |           |      |                       |         |
| Final test mode:       | Mode1 |           |      |                       |         |

### 6.7.2 Test Setup Diagram:





**6.7.3 Test Data:**

Mode1 / Polarization: Horizontal

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 1302.000 | 63.14         | -8.69          | 54.45       | 74.00  | -19.55 | peak     |
| 2   | *   | 1302.000 | 59.05         | -8.69          | 50.36       | 54.00  | -3.64  | AVG      |
| 3   |     | 1736.000 | 54.35         | -7.63          | 46.72       | 74.00  | -27.28 | peak     |
| 4   |     | 1736.000 | 49.77         | -7.63          | 42.14       | 54.00  | -11.86 | AVG      |
| 5   |     | 2170.000 | 48.07         | -5.34          | 42.73       | 74.00  | -31.27 | peak     |
| 6   |     | 2170.000 | 43.91         | -5.34          | 38.57       | 54.00  | -15.43 | AVG      |

Mode1 / Polarization: Vertical

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 1302.000 | 56.20         | -8.69          | 47.51       | 74.00  | -26.49 | peak     |
| 2   |     | 1302.000 | 51.94         | -8.69          | 43.25       | 54.00  | -10.75 | AVG      |
| 3   |     | 1736.000 | 56.57         | -7.63          | 48.94       | 74.00  | -25.06 | peak     |
| 4   | *   | 1736.000 | 52.50         | -7.63          | 44.87       | 54.00  | -9.13  | AVG      |
| 5   |     | 2170.000 | 47.21         | -5.34          | 41.87       | 74.00  | -32.13 | peak     |
| 6   |     | 2170.000 | 43.02         | -5.34          | 37.68       | 54.00  | -16.32 | AVG      |

## Photographs of the test setup

Refer to Appendix - Test Setup Photos

## Photographs of the EUT

Refer to Appendix - EUT Photos

**----End of Report----**