

## TEST REPORT

**Product** : Yarbo Wi-Fi Module  
**Trade mark** : Yarbo  
**Model/Type reference** : WF2  
**Serial Number** : N/A  
**Report Number** : EED32P80994901  
**FCC ID** : 2A9JF-HY0710-YARBO  
**Date of Issue** : Aug. 03, 2023  
**Test Standards** : 47 CFR Part 15 Subpart C  
**Test result** : PASS

Prepared for:

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Prepared by:

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Aug. 03, 2023



Check No.: 9753030723

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3 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Aug. 03, 2023 | Original    |
|             |               |             |
|             |               |             |

## 4 Test Summary

| Test Item                                     | Test Requirement                                   | Result |
|-----------------------------------------------|----------------------------------------------------|--------|
| Antenna Requirement                           | 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) | PASS   |
| AC Power Line Conducted Emission              | 47 CFR Part 15 Subpart C Section 15.207            | PASS   |
| DTS Bandwidth                                 | 47 CFR Part 15 Subpart C Section 15.247 (a)(2)     | PASS   |
| Maximum Conducted Output Power                | 47 CFR Part 15 Subpart C Section 15.247 (b)(3)     | PASS   |
| Maximum Power Spectral Density                | 47 CFR Part 15 Subpart C Section 15.247 (e)        | PASS   |
| Band edge measurements                        | 47 CFR Part 15 Subpart C Section 15.247(d)         | PASS   |
| Conducted Spurious Emissions                  | 47 CFR Part 15 Subpart C Section 15.247(d)         | PASS   |
| Radiated Spurious Emission & Restricted bands | 47 CFR Part 15 Subpart C Section 15.205/15.209     | PASS   |

**Remark:**

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

## 5 General Information

### 5.1 Client Information

|                          |                                                                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Shenzhen Hanyang Technology Co., Ltd.                                                                                                                                           |
| Address of Applicant:    | Room 12KLM, Building 6B, Baoneng Science and Technology Park, Qinghu Community, Longhua Street, Longhua District, Shenzhen                                                      |
| Manufacturer:            | Shenzhen Hanyang Technology Co., Ltd.                                                                                                                                           |
| Address of Manufacturer: | Room 12KLM, Building 6B, Baoneng Science and Technology Park, Qinghu Community, Longhua Street, Longhua District, Shenzhen                                                      |
| Factory:                 | Shenyang Robotics (Huizhou) Co., Ltd.                                                                                                                                           |
| Address of Factory:      | 7th Floor, Building 2, Huizhou Shenghong Electric Industrial Park, No. 31, Huifeng West 2nd Road, Huihuan Street, Zhongkai High-tech District, Huizhou City, Guangdong Province |

### 5.2 General Description of EUT

|                       |                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:         | Yarbo Wi-Fi Module                                                                                                                                               |
| Model No.:            | WF2                                                                                                                                                              |
| Trade mark:           | Yarbo                                                                                                                                                            |
| Product Type:         | <input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location                                               |
| Operation Frequency:  | IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz<br>IEEE 802.11n(HT40): 2422MHz to 2452MHz                                                                             |
| Modulation Type:      | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)<br>IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Number of Channel:    | IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels<br>IEEE 802.11n HT40: 7 Channels                                                                                  |
| Channel Separation:   | 5MHz                                                                                                                                                             |
| Antenna Type:         | External Antenna                                                                                                                                                 |
| Antenna Gain:         | 1.78dBi                                                                                                                                                          |
| Power Supply:         | DC 12.0V                                                                                                                                                         |
| Test Voltage:         | DC 12.0V                                                                                                                                                         |
| Sample Received Date: | Jul. 03, 2023                                                                                                                                                    |
| Sample tested Date:   | Jul. 10, 2023 to Jul. 15, 2023                                                                                                                                   |

| Operation Frequency each of channel (802.11b/g/n HT20) |           |         |           |         |           |         |           |
|--------------------------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                                                | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1                                                      | 2412MHz   | 4       | 2427MHz   | 7       | 2442MHz   | 10      | 2457MHz   |
| 2                                                      | 2417MHz   | 5       | 2432MHz   | 8       | 2447MHz   | 11      | 2462MHz   |
| 3                                                      | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |
| Operation Frequency each of channel (802.11n HT40)     |           |         |           |         |           |         |           |
| Channel                                                | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 3                                                      | 2422MHz   | 6       | 2437MHz   | 9       | 2452MHz   |         |           |
| 4                                                      | 2427MHz   | 7       | 2442MHz   |         |           |         |           |
| 5                                                      | 2432MHz   | 8       | 2447MHz   |         |           |         |           |

**Note:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

**802.11b/g/n (HT20)**

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2412MHz   |
| The middle channel  | 2437MHz   |
| The highest channel | 2462MHz   |

**802.11n (HT40)**

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2422MHz   |
| The middle channel  | 2437MHz   |
| The highest channel | 2452MHz   |

### 5.3 Test Configuration

| EUT Test Software Settings:                                                                                                                                                                                  |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Software:                                                                                                                                                                                                    | QATool_Dbg.exe |
| EUT Power Grade:                                                                                                                                                                                             | Default        |
| Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.                                                                                  |                |
| Test Mode:                                                                                                                                                                                                   |                |
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: |                |
| Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.                                                                                                         |                |
| Mode                                                                                                                                                                                                         | Data rate      |
| 802.11b                                                                                                                                                                                                      | 1Mbps          |
| 802.11g                                                                                                                                                                                                      | 6Mbps          |
| 802.11n(HT20)                                                                                                                                                                                                | 6.5Mbps        |
| 802.11n(HT40)                                                                                                                                                                                                | 13.5Mbps       |
| According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 6.5Mbps for 802.11n(HT40).              |                |

## 5.4 Test Environment

|                                     |            |
|-------------------------------------|------------|
| <b>Operating Environment:</b>       |            |
| <b>Radiated Spurious Emissions:</b> |            |
| Temperature:                        | 22~25.0 °C |
| Humidity:                           | 50~55 % RH |
| Atmospheric Pressure:               | 1010mbar   |
| <b>Conducted Emissions:</b>         |            |
| Temperature:                        | 22~25.0 °C |
| Humidity:                           | 50~55 % RH |
| Atmospheric Pressure:               | 1010mbar   |
| <b>RF Conducted:</b>                |            |
| Temperature:                        | 22~25.0 °C |
| Humidity:                           | 50~55 % RH |
| Atmospheric Pressure:               | 1010mbar   |

## 5.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|-----------|---------------|-------------|
| Netbook     | ASUSTek      | /         | FCC&CE        | CTI         |
| Netbook     | HP           | /         | FCC&CE        | CTI         |

## 5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

**5.7 Measurement Uncertainty (95% confidence levels, k=2)**

| No. | Item                            | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1   | Radio Frequency                 | $7.9 \times 10^{-8}$    |
| 2   | RF power, conducted             | 0.46dB (30MHz-1GHz)     |
|     |                                 | 0.55dB (1GHz-40GHz)     |
| 3   | Radiated Spurious emission test | 3.3dB (9kHz-30MHz)      |
|     |                                 | 4.3dB (30MHz-1GHz)      |
|     |                                 | 4.5dB (1GHz-18GHz)      |
|     |                                 | 3.4dB (18GHz-40GHz)     |
| 4   | Conduction emission             | 3.5dB (9kHz to 150kHz)  |
|     |                                 | 3.1dB (150kHz to 30MHz) |
| 5   | Temperature test                | 0.64°C                  |
| 6   | Humidity test                   | 3.8%                    |
| 7   | DC power voltages               | 0.026%                  |

## 6 Equipment List

| RF test system                          |                        |           |               |                           |                               |
|-----------------------------------------|------------------------|-----------|---------------|---------------------------|-------------------------------|
| Equipment                               | Manufacturer           | Model No. | Serial Number | Cal. Date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |
| Spectrum Analyzer                       | Keysight               | N9010A    | MY54510339    | 12-23-2022                | 12-22-2023                    |
| Signal Generator                        | Keysight               | N5182B    | MY53051549    | 12-19-2022                | 12-18-2023                    |
| DC Power                                | Keysight               | E3642A    | MY56376072    | 12-19-2022                | 12-18-2023                    |
| Wi-Fi 7GHz Band<br>Extender             | JS Tonscend            | TS-WF7U2  | 2206200002    | 06-09-2023                | 06-08-2024                    |
| RF control unit                         | JS Tonscend            | JS0806-2  | 158060006     | 12-23-2022                | 12-22-2023                    |
| Communication test<br>set               | R&S                    | CMW500    | 120765        | 12-23-2022                | 12-22-2023                    |
| high-low<br>temperature test<br>chamber | Dong Guang Qin<br>Zhuo | LK-80GA   | QZ20150611879 | 12-19-2022                | 12-18-2023                    |
| Temperature/<br>Humidity Indicator      | biaozhi                | HM10      | 1804186       | 06-01-2023                | 05-31-2024                    |
| BT&WI-FI<br>Automatic test<br>software  | JS Tonscend            | JS1120-3  | V3.2.22       | ---                       | ---                           |

| Conducted disturbance Test         |              |           |                  |              |               |
|------------------------------------|--------------|-----------|------------------|--------------|---------------|
| Equipment                          | Manufacturer | Model No. | Serial<br>Number | Cal. date    | Cal. Due date |
|                                    |              |           |                  | (mm-dd-yyyy) | (mm-dd-yyyy)  |
| Receiver                           | R&S          | ESCI      | 100435           | 04-25-2023   | 04-24-2024    |
| Temperature/ Humidity<br>Indicator | Defu         | TH128     | /                | ---          | ---           |
| LISN                               | R&S          | ENV216    | 100098           | 09-27-2022   | 09-26-2023    |
| Barometer                          | changchun    | DYM3      | 1188             | ---          | ---           |
| Test software                      | Fara         | EZ-EMC    | EMC-CON<br>3A1.1 | ---          | ---           |
| Capacitive voltage probe           | Schwarzbeck  | CVP 9222C | 00124            | 06-29-2023   | 06-28-2024    |
| ISN                                | TESEQ        | ISN T800  | 30297            | 01-04-2022   | 12-29-2023    |

| 3M Semi-anechoic Chamber (2)- Radiated disturbance Test |              |             |              |            |            |
|---------------------------------------------------------|--------------|-------------|--------------|------------|------------|
| Equipment                                               | Manufacturer | Model       | Serial No.   | Cal. Date  | Due Date   |
| 3M Chamber & Accessory Equipment                        | TDK          | SAC-3       | ---          | 05/22/2022 | 05/21/2025 |
| Receiver                                                | R&S          | ESCI7       | 100938-003   | 09/28/2022 | 09/27/2023 |
| Spectrum Analyzer                                       | R&S          | FSV40       | 101200       | 07/29/2022 | 07/28/2023 |
| TRILOG Broadband Antenna                                | schwarzbeck  | VULB 9163   | 9163-618     | 05/22/2022 | 05/21/2025 |
| Loop Antenna                                            | Schwarzbeck  | FMZB 1519B  | 1519B-076    | 04/15/2021 | 04/14/2024 |
| Microwave Preamplifier                                  | Tonscend     | EMC051845SE | 980380       | 12/23/2022 | 12/23/2023 |
| Horn Antenna                                            | A.H.SYSTEM S | SAS-574     | 374          | 05/29/2021 | 05/28/2024 |
| Horn Antenna                                            | ETS-LINGREN  | BBHA 9120D  | 9120D-1869   | 04/15/2021 | 04/14/2024 |
| Preamplifier                                            | Agilent      | 11909A      | 12-1         | 03/28/2023 | 03/27/2024 |
| Preamplifier                                            | CD           | PAP-1840-60 | 6041.6042    | 07/05/2022 | 07/04/2023 |
| Test software                                           | Fara         | EZ-EMC      | EMEC-3A1-Pre | ---        | ---        |
| Cable line                                              | Fulai(7M)    | SF106       | 5219/6A      | ---        | ---        |
| Cable line                                              | Fulai(6M)    | SF106       | 5220/6A      | ---        | ---        |
| Cable line                                              | Fulai(3M)    | SF106       | 5216/6A      | ---        | ---        |
| Cable line                                              | Fulai(3M)    | SF106       | 5217/6A      | ---        | ---        |

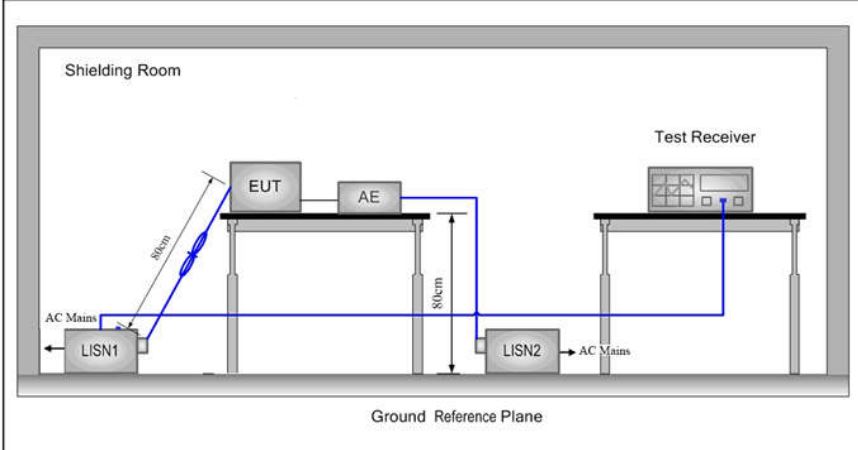
| 3M full-anechoic Chamber       |              |                   |               |                           |                               |
|--------------------------------|--------------|-------------------|---------------|---------------------------|-------------------------------|
| Equipment                      | Manufacturer | Model No.         | Serial Number | Cal. Date<br>(mm-dd-yyyy) | Cal. Due date<br>(mm-dd-yyyy) |
| RSE Automatic test software    | JS Tonscend  | JS36-RSE          | 10166         | ---                       | ---                           |
| Receiver                       | Keysight     | N9038A            | MY57290136    | 02-27-2023                | 02-26-2024                    |
| Spectrum Analyzer              | Keysight     | N9020B            | MY57111112    | 02-21-2023                | 02-20-2024                    |
| Spectrum Analyzer              | Keysight     | N9030B            | MY57140871    | 02-21-2023                | 02-20-2024                    |
| TRILOG Broadband Antenna       | Schwarzbeck  | VULB 9163         | 9163-1148     | 04-28-2021                | 04-27-2024                    |
| Horn Antenna                   | Schwarzbeck  | BBHA 9170         | 9170-832      | 04-15-2021                | 04-14-2024                    |
| Horn Antenna                   | ETS-LINDGREN | 3117              | 57407         | 07-04-2021                | 07-03-2024                    |
| Preamplifier                   | EMCI         | EMC184055SE       | 980597        | 04-13-2023                | 04-12-2024                    |
| Preamplifier                   | EMCI         | EMC001330         | 980563        | 03-28-2023                | 03-27-2024                    |
| Preamplifier                   | JS Tonscend  | TAP-011858        | AP21B806112   | 07-29-2022                | 07-28-2023                    |
| Communication test set         | R&S          | CMW500            | 102898        | 12-23-2022                | 12-22-2023                    |
| Temperature/Humidity Indicator | biaozhi      | GM1360            | EE1186631     | 04-11-2023                | 04-10-2024                    |
| Fully Anechoic Chamber         | TDK          | FAC-3             | ---           | 01-09-2021                | 01-08-2024                    |
| Cable line                     | Times        | SFT205-NMSM-2.50M | 394812-0001   | ---                       | ---                           |
| Cable line                     | Times        | SFT205-NMSM-2.50M | 394812-0002   | ---                       | ---                           |
| Cable line                     | Times        | SFT205-NMSM-2.50M | 394812-0003   | ---                       | ---                           |
| Cable line                     | Times        | SFT205-NMSM-2.50M | 393495-0001   | ---                       | ---                           |
| Cable line                     | Times        | EMC104-NMNM-1000  | SN160710      | ---                       | ---                           |
| Cable line                     | Times        | SFT205-NMSM-3.00M | 394813-0001   | ---                       | ---                           |
| Cable line                     | Times        | SFT205-NMNM-1.50M | 381964-0001   | ---                       | ---                           |
| Cable line                     | Times        | SFT205-NMSM-7.00M | 394815-0001   | ---                       | ---                           |
| Cable line                     | Times        | HF160-KMKM-3.00M  | 393493-0001   | ---                       | ---                           |

## 7 Test results and Measurement Data

### 7.1 Antenna Requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 47 CFR Part 15C Section 15.203 /247(c) |
| <p>15.203 requirement:<br/>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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:<br/>The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |                                        |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Please see Internal photos             |
| The antenna is External antenna. The best case gain of the antenna is 1.78dBi.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                        |

## 7.2 AC Power Line Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | 47 CFR Part 15C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |           |
| Test Method:                                     | ANSI C63.10: 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |           |
| Receiver setup:                                  | RBW=9 kHz, VBW=30 kHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Limit (dBuV) |           |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 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 Setup:                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Test Procedure:                                  | <ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol> |              |           |
| Test Mode:                                       | All modes were tested, only the worse case lowest channel of 1Mbps for 802.11b was recorded in the report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |           |

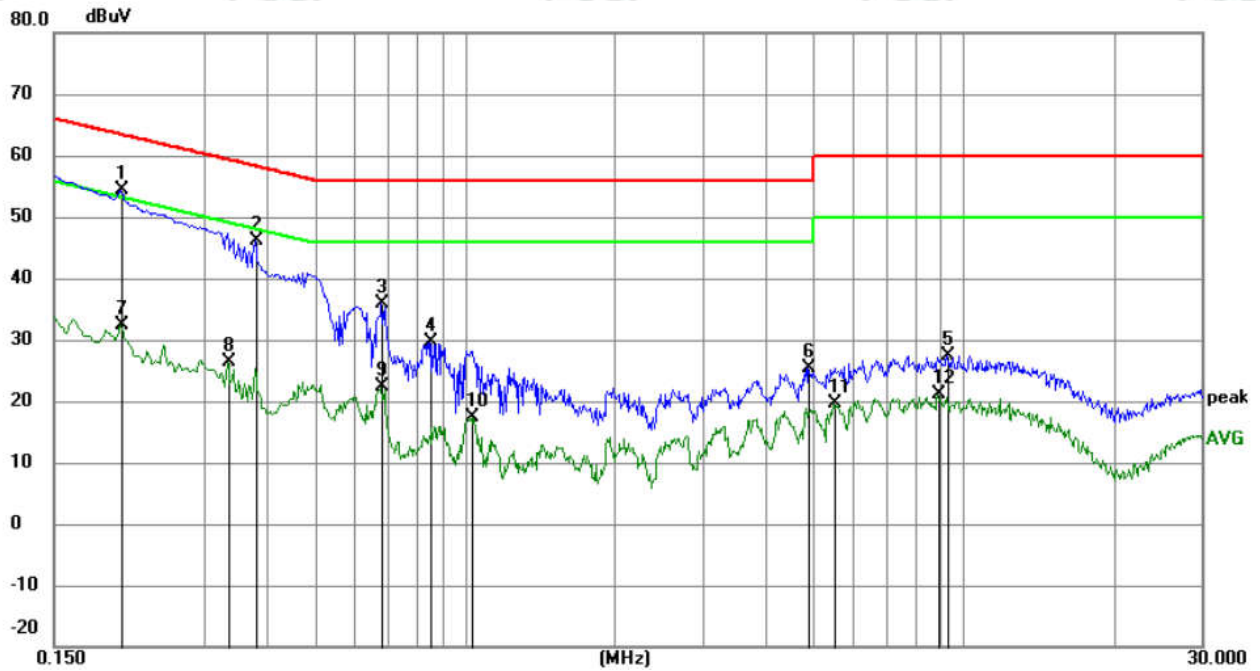
Test Results:

Pass

## Measurement Data

ANT 1:

Live line:

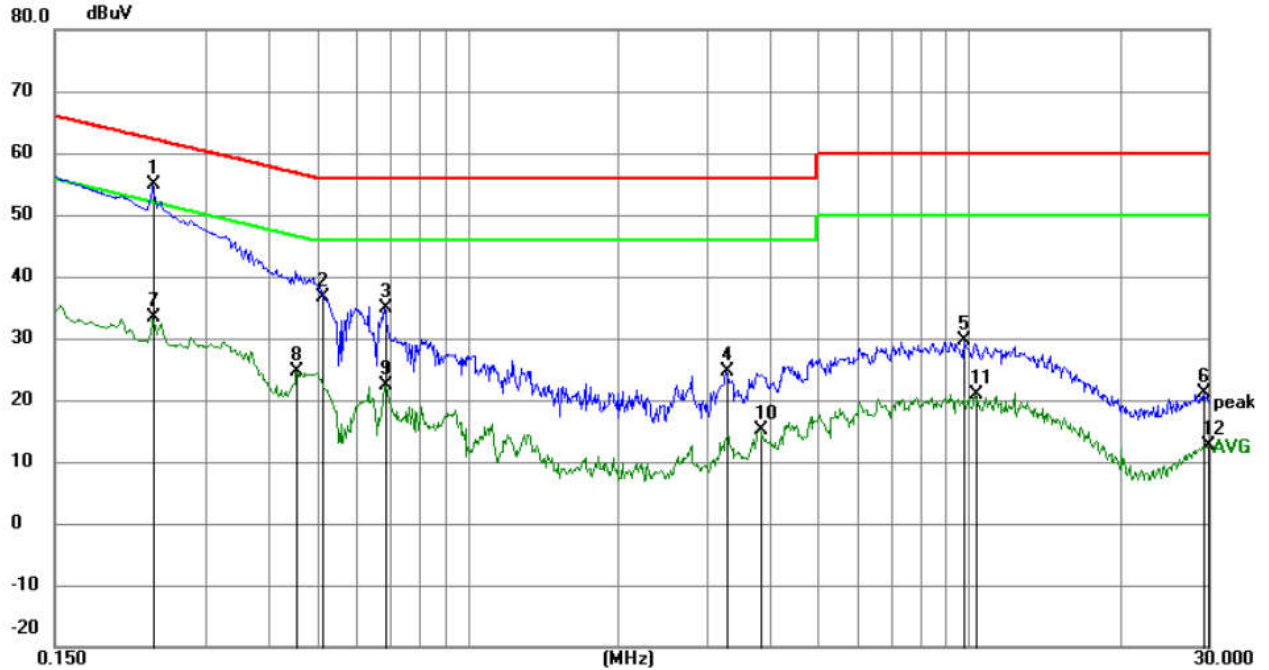


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   | *   | 0.2040       | 44.53                    | 9.88                    | 54.41                    | 63.45         | -9.04        | peak     |         |
| 2   |     | 0.3795       | 36.22                    | 9.99                    | 46.21                    | 58.29         | -12.08       | peak     |         |
| 3   |     | 0.6809       | 26.06                    | 9.92                    | 35.98                    | 56.00         | -20.02       | peak     |         |
| 4   |     | 0.8520       | 19.77                    | 9.85                    | 29.62                    | 56.00         | -26.38       | peak     |         |
| 5   |     | 9.2760       | 17.70                    | 9.78                    | 27.48                    | 60.00         | -32.52       | peak     |         |
| 6   |     | 4.8885       | 15.57                    | 9.78                    | 25.35                    | 56.00         | -30.65       | peak     |         |
| 7   |     | 0.2040       | 22.52                    | 9.88                    | 32.40                    | 53.45         | -21.05       | AVG      |         |
| 8   |     | 0.3345       | 16.34                    | 10.04                   | 26.38                    | 49.34         | -22.96       | AVG      |         |
| 9   |     | 0.6809       | 12.35                    | 9.92                    | 22.27                    | 46.00         | -23.73       | AVG      |         |
| 10  |     | 1.0365       | 7.57                     | 9.83                    | 17.40                    | 46.00         | -28.60       | AVG      |         |
| 11  |     | 5.5005       | 9.84                     | 9.78                    | 19.62                    | 50.00         | -30.38       | AVG      |         |
| 12  |     | 8.8710       | 11.33                    | 9.78                    | 21.11                    | 50.00         | -28.89       | AVG      |         |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



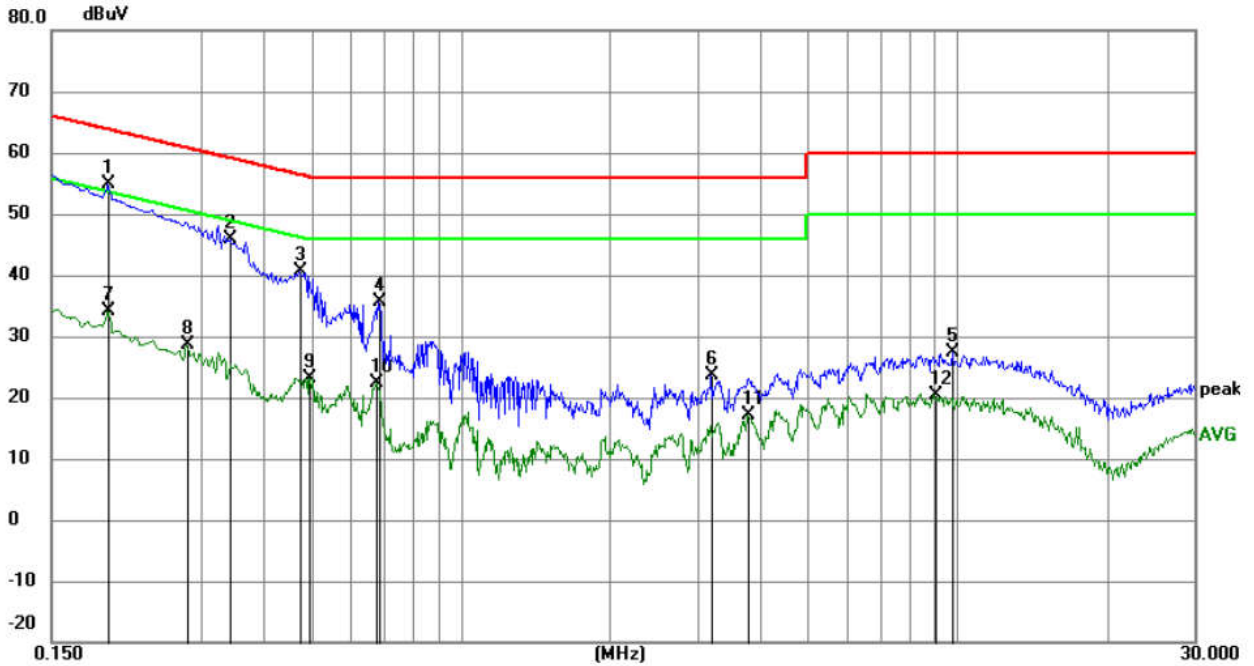
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   | *   | 0.2355       | 44.96                    | 9.94                    | 54.90                    | 62.25         | -7.35        | peak     |         |
| 2   |     | 0.5155       | 26.73                    | 9.97                    | 36.70                    | 56.00         | -19.30       | peak     |         |
| 3   |     | 0.6855       | 25.01                    | 9.91                    | 34.92                    | 56.00         | -21.08       | peak     |         |
| 4   |     | 3.2865       | 14.77                    | 9.79                    | 24.56                    | 56.00         | -31.44       | peak     |         |
| 5   |     | 9.8025       | 19.92                    | 9.78                    | 29.70                    | 60.00         | -30.30       | peak     |         |
| 6   |     | 29.4000      | 11.08                    | 10.03                   | 21.11                    | 60.00         | -38.89       | peak     |         |
| 7   |     | 0.2355       | 23.34                    | 9.94                    | 33.28                    | 52.25         | -18.97       | AVG      |         |
| 8   |     | 0.4560       | 14.71                    | 9.96                    | 24.67                    | 46.77         | -22.10       | AVG      |         |
| 9   |     | 0.6855       | 12.50                    | 9.91                    | 22.41                    | 46.00         | -23.59       | AVG      |         |
| 10  |     | 3.8265       | 5.37                     | 9.78                    | 15.15                    | 46.00         | -30.85       | AVG      |         |
| 11  |     | 10.3155      | 11.01                    | 9.79                    | 20.80                    | 50.00         | -29.20       | AVG      |         |
| 12  |     | 29.9310      | 2.54                     | 10.03                   | 12.57                    | 50.00         | -37.43       | AVG      |         |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

ANT 2:

Live line:

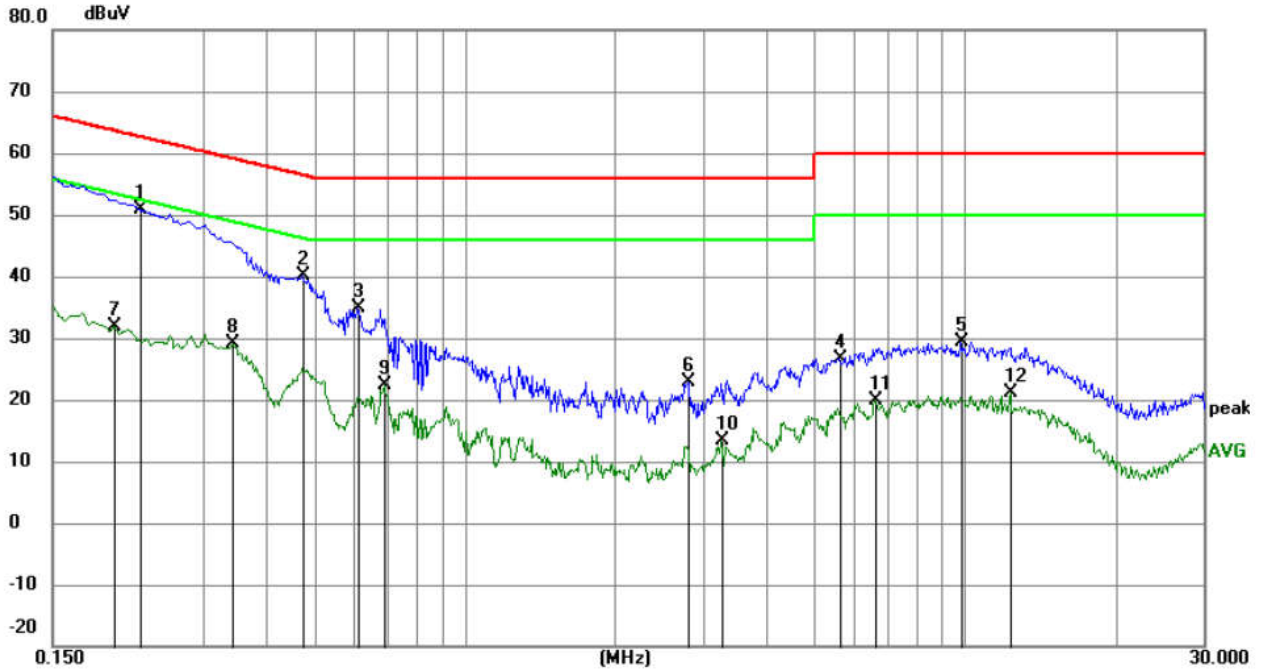


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   | *   | 0.1949       | 44.89                    | 9.87                    | 54.76                    | 63.83         | -9.07        | peak     |         |
| 2   |     | 0.3435       | 35.83                    | 10.03                   | 45.86                    | 59.12         | -13.26       | peak     |         |
| 3   |     | 0.4740       | 30.59                    | 9.96                    | 40.55                    | 56.44         | -15.89       | peak     |         |
| 4   |     | 0.6855       | 25.61                    | 9.91                    | 35.52                    | 56.00         | -20.48       | peak     |         |
| 5   |     | 9.7980       | 17.65                    | 9.78                    | 27.43                    | 60.00         | -32.57       | peak     |         |
| 6   |     | 3.1965       | 13.82                    | 9.79                    | 23.61                    | 56.00         | -32.39       | peak     |         |
| 7   |     | 0.1949       | 24.29                    | 9.87                    | 34.16                    | 53.83         | -19.67       | AVG      |         |
| 8   |     | 0.2805       | 18.54                    | 10.03                   | 28.57                    | 50.80         | -22.23       | AVG      |         |
| 9   |     | 0.4965       | 13.28                    | 9.95                    | 23.23                    | 46.06         | -22.83       | AVG      |         |
| 10  |     | 0.6765       | 12.38                    | 9.92                    | 22.30                    | 46.00         | -23.70       | AVG      |         |
| 11  |     | 3.7860       | 7.34                     | 9.78                    | 17.12                    | 46.00         | -28.88       | AVG      |         |
| 12  |     | 9.0150       | 10.64                    | 9.78                    | 20.42                    | 50.00         | -29.58       | AVG      |         |

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

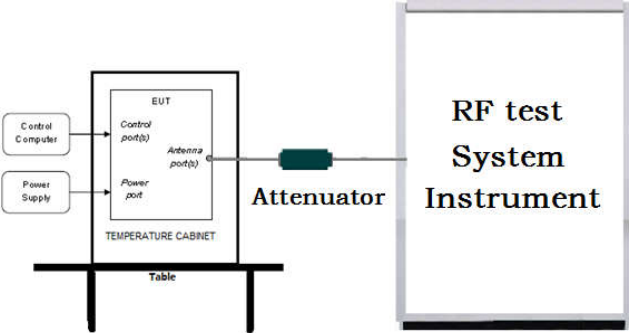


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   | *   | 0.2244       | 40.88                    | 9.92                    | 50.80                    | 62.65         | -11.85       | peak     |         |
| 2   |     | 0.4740       | 30.26                    | 9.96                    | 40.22                    | 56.44         | -16.22       | peak     |         |
| 3   |     | 0.6134       | 24.89                    | 10.04                   | 34.93                    | 56.00         | -21.07       | peak     |         |
| 4   |     | 5.5949       | 16.90                    | 9.78                    | 26.68                    | 60.00         | -33.32       | peak     |         |
| 5   |     | 9.8520       | 19.69                    | 9.78                    | 29.47                    | 60.00         | -30.53       | peak     |         |
| 6   |     | 2.8050       | 13.14                    | 9.79                    | 22.93                    | 56.00         | -33.07       | peak     |         |
| 7   |     | 0.1995       | 21.95                    | 9.87                    | 31.82                    | 53.63         | -21.81       | AVG      |         |
| 8   |     | 0.3435       | 19.06                    | 10.03                   | 29.09                    | 49.12         | -20.03       | AVG      |         |
| 9   |     | 0.6900       | 12.48                    | 9.90                    | 22.38                    | 46.00         | -23.62       | AVG      |         |
| 10  |     | 3.2595       | 3.48                     | 9.79                    | 13.27                    | 46.00         | -32.73       | AVG      |         |
| 11  |     | 6.6030       | 10.09                    | 9.79                    | 19.88                    | 50.00         | -30.12       | AVG      |         |
| 12  |     | 12.3315      | 11.16                    | 9.85                    | 21.01                    | 50.00         | -28.99       | AVG      |         |

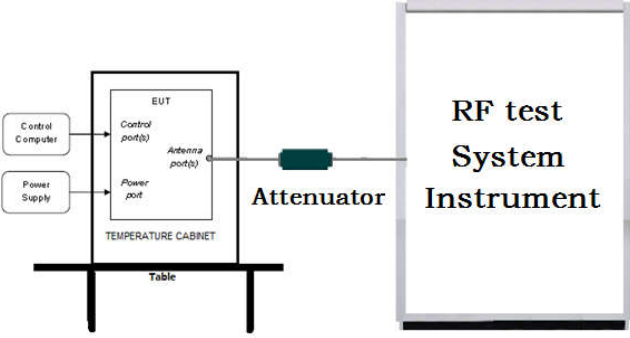
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

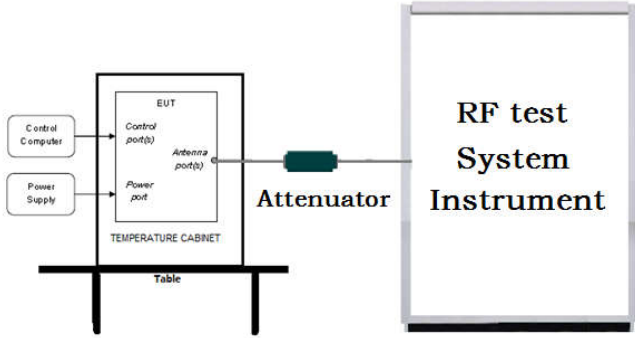
7.3 Maximum Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3)                                                                                                                                                                                                                                                   |
| Test Method:      | ANSI C63.10 2013                                                                                                                                                                                                                                                                        |
| Test Setup:       |                                                                                                                                                                                                       |
| Test Procedure:   | 1. PKPM1 Peak power meter measurement<br>The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector. |
| Limit:            | 30dBm                                                                                                                                                                                                                                                                                   |
| Test Mode:        | Refer to clause 5.3                                                                                                                                                                                                                                                                     |
| Test Results:     | Refer to Appendix 2.4G WIFI                                                                                                                                                                                                                                                             |

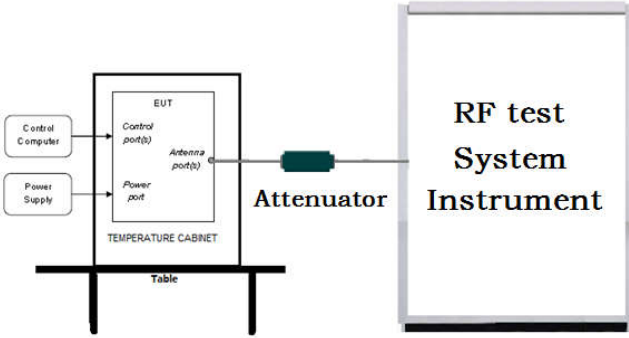
## 7.4 DTS Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Setup:       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p>                                                                                                                                                                                                                                                                                                                                                                   |
| Test Procedure:   | <p>a) Set RBW = 100 kHz.</p> <p>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</p> <p>c) Detector = peak.</p> <p>d) Trace mode = max hold.</p> <p>e) Sweep = auto couple.</p> <p>f) Allow the trace to stabilize.</p> <p>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</p> |
| Limit:            | $\geq 500 \text{ kHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Mode:        | Refer to clause 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Results:     | Refer to Appendix 2.4G WIFI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 7.5 Maximum Power Spectral Density

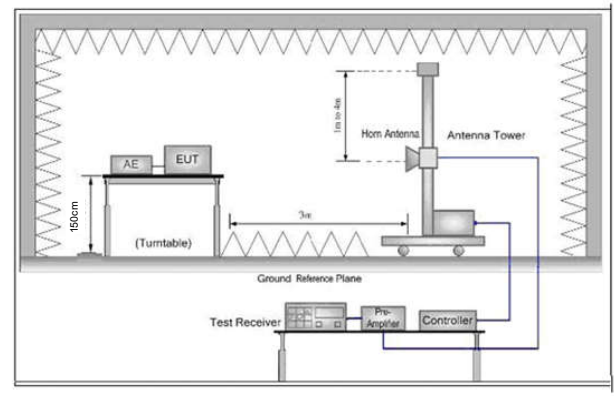
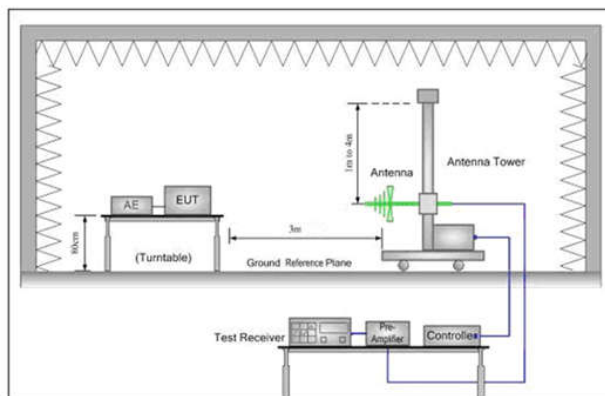
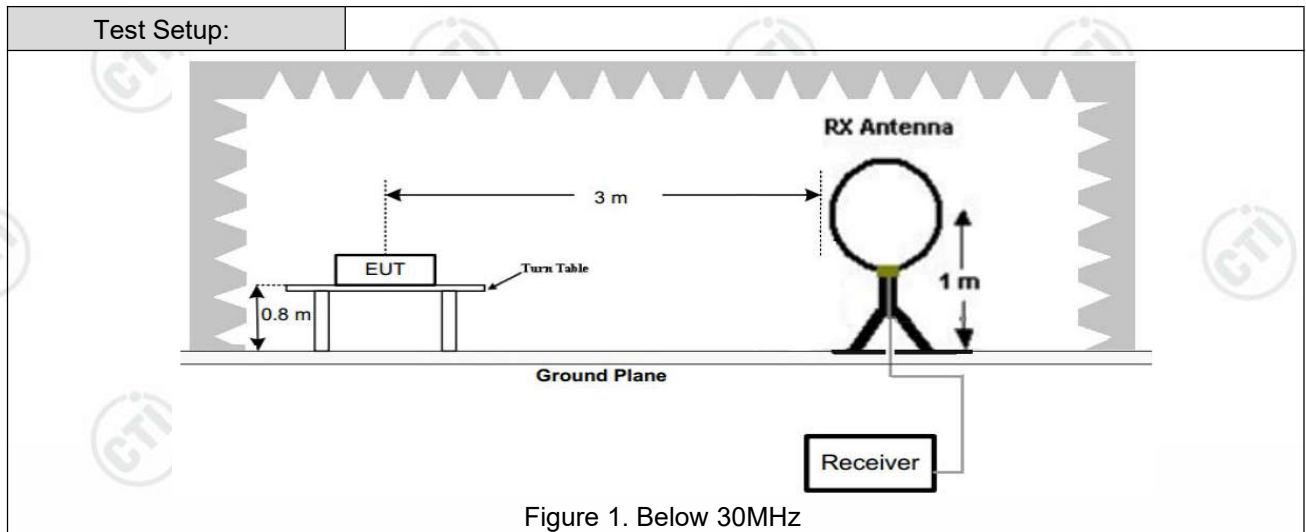
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Method:      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Setup:       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test Procedure:   | <p>a) Set analyzer center frequency to DTS channel center frequency.</p> <p>b) Set the span to 1.5 times the DTS bandwidth.</p> <p>c) Set the RBW to <math>3 \text{ kHz} &lt; \text{RBW} &lt; 100 \text{ kHz}</math>.</p> <p>d) Set the VBW <math>&gt; [3 \times \text{RBW}]</math>.</p> <p>e) Detector = peak.</p> <p>f) Sweep time = auto couple.</p> <p>g) Trace mode = max hold.</p> <p>h) Allow trace to fully stabilize.</p> <p>i) Use the peak marker function to determine the maximum amplitude level within the RBW.</p> <p>j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.</p> |
| Limit:            | $\leq 8.00 \text{ dBm}/3 \text{ kHz}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Mode:        | Refer to clause 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test Results:     | Refer to Appendix 2.4G WIFI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## 7.6 Band Edge Measurements and Conducted Spurious Emission

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                        |
| Test Setup:       |  <p>Remark: Offset=Cable loss+ attenuation factor.</p>                                                                                                                                                                                                                                                |
| Test Procedure:   | <ul style="list-style-type: none"> <li>a) Set RBW = 100KHz.</li> <li>b) Set VBW = 300KHz.</li> <li>c) Sweep time = auto couple.</li> <li>d) Detector = peak.</li> <li>e) Trace mode = max hold.</li> <li>f) Allow trace to fully stabilize.</li> <li>g) Use peak marker function to determine the peak amplitude level.</li> </ul>                                                      |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Mode:        | Refer to clause 5.3                                                                                                                                                                                                                                                                                                                                                                     |
| Test Results:     | Refer to Appendix 2.4G WIFI                                                                                                                                                                                                                                                                                                                                                             |

## 7.7 Radiated Spurious Emission & Restricted bands

|                                                                                                                                                                                                                                                                             |                                                  |                                     |                   |            |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-------------------|------------|-----------------------------|
| Test Requirement:                                                                                                                                                                                                                                                           | 47 CFR Part 15C Section 15.209 and 15.205        |                                     |                   |            |                             |
| Test Method:                                                                                                                                                                                                                                                                | ANSI C63.10 2013                                 |                                     |                   |            |                             |
| Test Site:                                                                                                                                                                                                                                                                  | Measurement Distance: 3m (Semi-Anechoic Chamber) |                                     |                   |            |                             |
| Receiver Setup:                                                                                                                                                                                                                                                             | Frequency                                        | Detector                            | RBW               | VBW        | Remark                      |
|                                                                                                                                                                                                                                                                             | 0.009MHz-0.090MHz                                | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                                                                                                                                                                                                                                                                             | 0.009MHz-0.090MHz                                | Average                             | 10kHz             | 30kHz      | Average                     |
|                                                                                                                                                                                                                                                                             | 0.090MHz-0.110MHz                                | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                                                                                                                                                                                                                                                                             | 0.110MHz-0.490MHz                                | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                                                                                                                                                                                                                                                                             | 0.110MHz-0.490MHz                                | Average                             | 10kHz             | 30kHz      | Average                     |
|                                                                                                                                                                                                                                                                             | 0.490MHz -30MHz                                  | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                                                                                                                                                                                                                                                                             | 30MHz-1GHz                                       | Quasi-peak                          | 100 kHz           | 300kHz     | Quasi-peak                  |
|                                                                                                                                                                                                                                                                             | Above 1GHz                                       | Peak                                | 1MHz              | 3MHz       | Peak                        |
|                                                                                                                                                                                                                                                                             |                                                  | Peak                                | 1MHz              | 10kHz      | Average                     |
| Limit:                                                                                                                                                                                                                                                                      | Frequency                                        | Field strength<br>(microvolt/meter) | Limit<br>(dBuV/m) | Remark     | Measurement<br>distance (m) |
|                                                                                                                                                                                                                                                                             | 0.009MHz-0.490MHz                                | 2400/F(kHz)                         | -                 | -          | 300                         |
|                                                                                                                                                                                                                                                                             | 0.490MHz-1.705MHz                                | 24000/F(kHz)                        | -                 | -          | 30                          |
|                                                                                                                                                                                                                                                                             | 1.705MHz-30MHz                                   | 30                                  | -                 | -          | 30                          |
|                                                                                                                                                                                                                                                                             | 30MHz-88MHz                                      | 100                                 | 40.0              | Quasi-peak | 3                           |
|                                                                                                                                                                                                                                                                             | 88MHz-216MHz                                     | 150                                 | 43.5              | Quasi-peak | 3                           |
|                                                                                                                                                                                                                                                                             | 216MHz-960MHz                                    | 200                                 | 46.0              | Quasi-peak | 3                           |
|                                                                                                                                                                                                                                                                             | 960MHz-1GHz                                      | 500                                 | 54.0              | Quasi-peak | 3                           |
|                                                                                                                                                                                                                                                                             | Above 1GHz                                       | 500                                 | 54.0              | Average    | 3                           |
| Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |                                                  |                                     |                   |            |                             |



## Test Procedure:

- 1) Below 1G: 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.
  - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.
- Note: For the radiated emission test above 1GHz:
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
  - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <p>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, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</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> |
| Test Mode:    | Refer to clause 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Results: | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

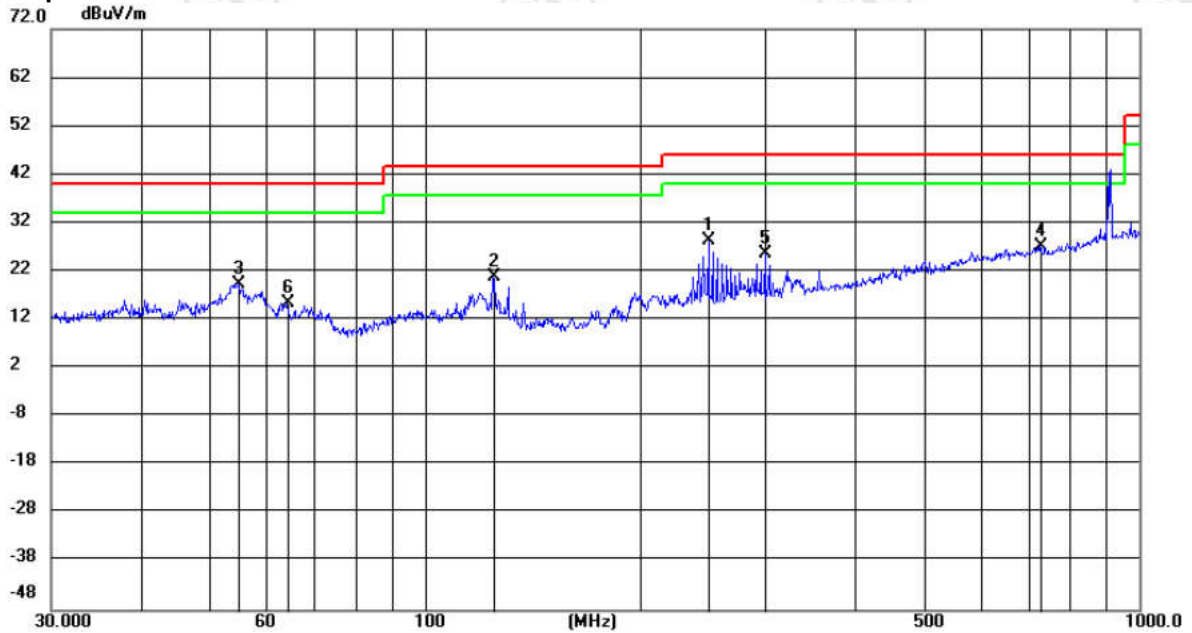
## Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 1Mbps for 802.11b was recorded in the report.

ANT 1:

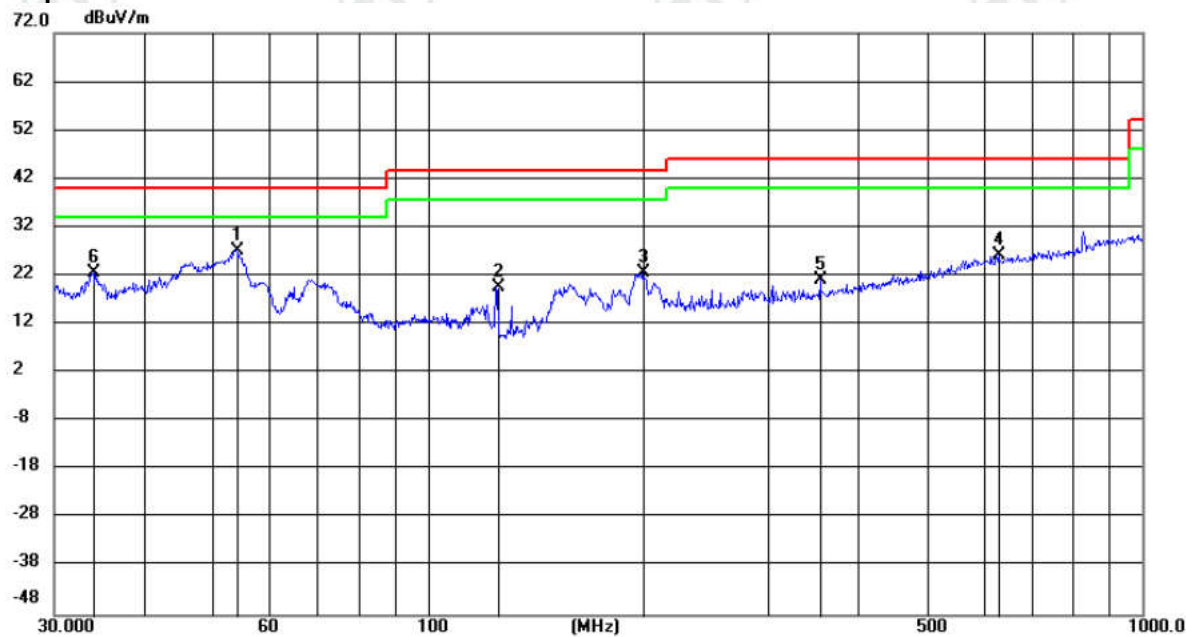
Horizontal:

### Test Graph



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Margin | Antenna Height | Table Degree |        |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|--------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | Detector       | cm           | degree |
| 1   | *   | 249.6000 | 12.71         | 15.50          | 28.21        | 46.00  | -17.79 | peak           | 200          | 320    |
| 2   |     | 124.9846 | 10.41         | 10.43          | 20.84        | 43.50  | -22.66 | peak           | 100          | 18     |
| 3   |     | 54.9600  | 5.45          | 13.92          | 19.37        | 40.00  | -20.63 | peak           | 100          | 288    |
| 4   |     | 728.0806 | 2.07          | 25.21          | 27.28        | 46.00  | -18.72 | peak           | 100          | 205    |
| 5   |     | 299.5258 | 8.55          | 17.24          | 25.79        | 46.00  | -20.21 | peak           | 200          | 310    |
| 6   |     | 64.4217  | 3.41          | 12.02          | 15.43        | 40.00  | -24.57 | peak           | 200          | 352    |

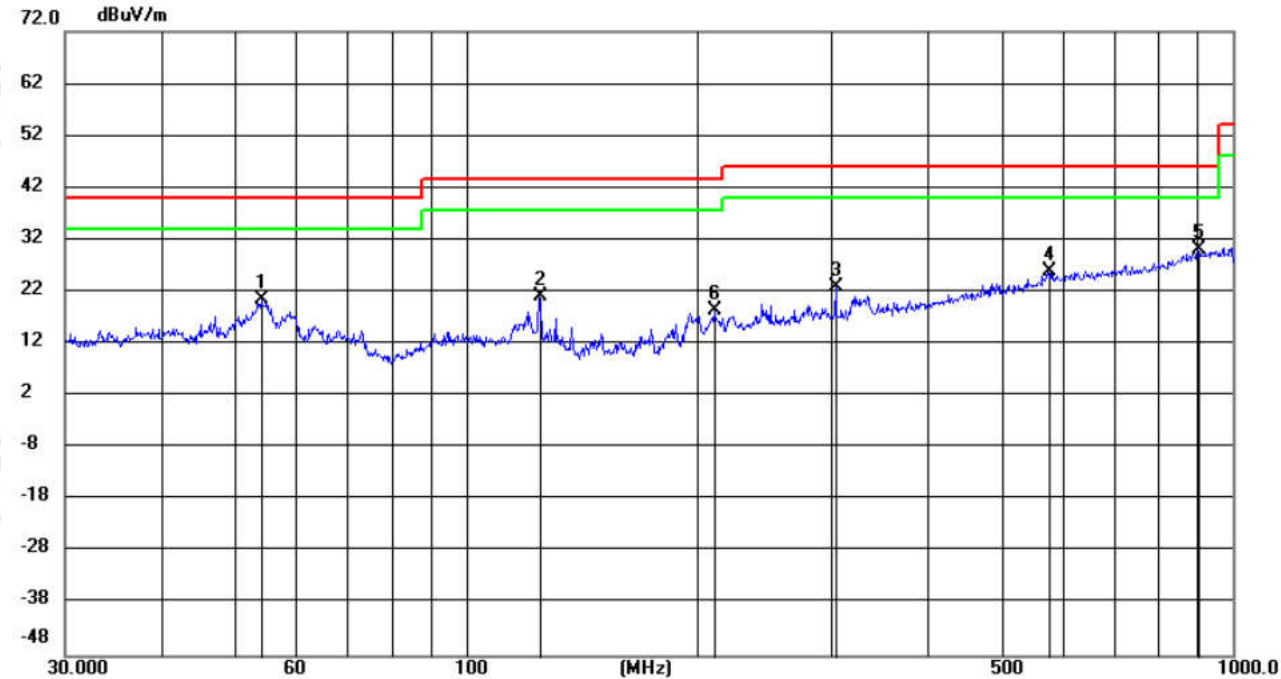
Vertical:  
Test Graph



| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Margin | Antenna | Table  |         |
|-----|-----|----------|---------|---------|----------|--------|--------|---------|--------|---------|
|     |     | MHz      | dBuV    | Factor  | ment     |        |        | Height  | Degree |         |
|     |     |          |         | dB      | dBuV/m   | dBuV/m | dB     | cm      | degree | Comment |
| 1   | *   | 53.9574  | 13.31   | 13.99   | 27.30    | 40.00  | -12.70 | peak    | 100    | 268     |
| 2   |     | 125.0066 | 9.28    | 10.43   | 19.71    | 43.50  | -23.79 | peak    | 200    | 163     |
| 3   |     | 200.0557 | 8.84    | 13.78   | 22.62    | 43.50  | -20.88 | peak    | 100    | 310     |
| 4   |     | 629.8084 | 1.99    | 24.25   | 26.24    | 46.00  | -19.76 | peak    | 100    | 310     |
| 5   |     | 354.8669 | 2.62    | 18.43   | 21.05    | 46.00  | -24.95 | peak    | 100    | 14      |
| 6   |     | 34.1441  | 9.23    | 13.49   | 22.72    | 40.00  | -17.28 | peak    | 100    | 352     |

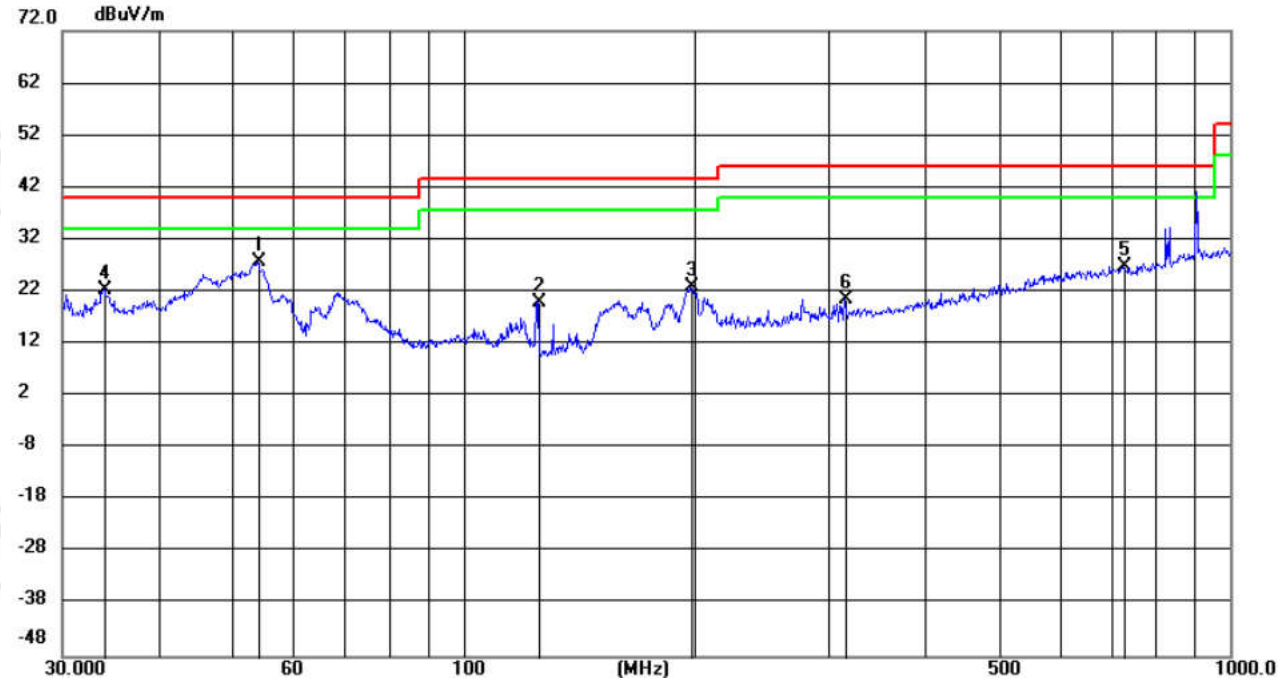
ANT 2:  
Horizontal:

Test Graph



| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Margin | Antenna  | Table  |        |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|--------|--------|
|     |     | MHz      | Level   | Factor  | ment     |        |        | Height   | Degree |        |
|     |     |          | dBuV    | dB      | dBuV/m   | dBuV/m | dB     | Detector | cm     | degree |
| 1   |     | 54.2513  | 6.58    | 13.97   | 20.55    | 40.00  | -19.45 | peak     |        |        |
| 2   |     | 124.9846 | 10.58   | 10.43   | 21.01    | 43.50  | -22.49 | peak     |        |        |
| 3   |     | 304.2363 | 5.61    | 17.34   | 22.95    | 46.00  | -23.05 | peak     |        |        |
| 4   |     | 575.1298 | 2.44    | 23.41   | 25.85    | 46.00  | -20.15 | peak     |        |        |
| 5   | *   | 903.1509 | 1.79    | 28.43   | 30.22    | 46.00  | -15.78 | peak     |        |        |
| 6   |     | 211.4523 | 4.38    | 14.18   | 18.56    | 43.50  | -24.94 | peak     |        |        |

Vertical:  
Test Graph



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Margin | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dBuV/m | dB     | cm             | degree       | Comment |
| 1   | *   | 53.9385  | 13.69         | 13.99          | 27.68        | 40.00  | -12.32 | peak           | 100          | 130     |
| 2   |     | 125.0066 | 9.58          | 10.43          | 20.01        | 43.50  | -23.49 | peak           | 200          | 215     |
| 3   |     | 198.1706 | 9.65          | 13.41          | 23.06        | 43.50  | -20.44 | peak           | 100          | 352     |
| 4   |     | 34.0425  | 8.97          | 13.48          | 22.45        | 40.00  | -17.55 | peak           | 100          | 46      |
| 5   |     | 727.5702 | 1.71          | 25.20          | 26.91        | 46.00  | -19.09 | peak           | 100          | 352     |
| 6   |     | 314.8729 | 3.03          | 17.57          | 20.60        | 46.00  | -25.40 | peak           | 100          | 331     |

### Radiated Spurious Emission above 1GHz:

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 b mode was the worst case, only the worst case was recorded in the report.

ANT 1:

| Mode: |             |             | 802.11 b Transmitting |                |                | Channel:    |        | 2412MHz  |        |
|-------|-------------|-------------|-----------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]        | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1315.0315   | 1.11        | 38.65                 | 39.76          | 74.00          | 34.24       | PASS   | H        | PK     |
| 2     | 1787.4787   | 3.24        | 38.29                 | 41.53          | 74.00          | 32.47       | PASS   | H        | PK     |
| 3     | 3827.0551   | -19.20      | 54.63                 | 35.43          | 74.00          | 38.57       | PASS   | H        | PK     |
| 4     | 4824.1216   | -16.22      | 72.20                 | 55.98          | 74.00          | 18.02       | PASS   | H        | PK     |
| 5     | 6030.202    | -13.01      | 53.05                 | 40.04          | 74.00          | 33.96       | PASS   | H        | PK     |
| 6     | 7235.2824   | -11.78      | 66.60                 | 54.82          | 74.00          | 19.18       | PASS   | H        | PK     |
| 7     | 4825.1217   | -16.22      | 69.39                 | 53.17          | 54.00          | 0.83        | PASS   | H        | AV     |
| 8     | 7236.2824   | -11.78      | 63.10                 | 51.32          | 54.00          | 2.68        | PASS   | H        | AV     |
| 9     | 1617.4617   | 2.41        | 37.99                 | 40.40          | 74.00          | 33.60       | PASS   | V        | PK     |
| 10    | 2062.9063   | 4.76        | 37.50                 | 42.26          | 74.00          | 31.74       | PASS   | V        | PK     |
| 11    | 3844.0563   | -19.17      | 53.55                 | 34.38          | 74.00          | 39.62       | PASS   | V        | PK     |
| 12    | 4824.1216   | -16.22      | 62.17                 | 45.95          | 74.00          | 28.05       | PASS   | V        | PK     |
| 13    | 6028.2019   | -13.01      | 50.81                 | 37.80          | 74.00          | 36.20       | PASS   | V        | PK     |
| 14    | 7235.2824   | -11.78      | 57.42                 | 45.64          | 74.00          | 28.36       | PASS   | V        | PK     |

| Mode: |             |             | 802.11 b Transmitting |                |                | Channel:    |        | 2437MHz  |        |
|-------|-------------|-------------|-----------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]        | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1449.0449   | 1.43        | 38.83                 | 40.26          | 74.00          | 33.74       | PASS   | H        | PK     |
| 2     | 1967.0967   | 4.38        | 37.66                 | 42.04          | 74.00          | 31.96       | PASS   | H        | PK     |
| 3     | 3822.0548   | -19.21      | 54.71                 | 35.50          | 74.00          | 38.50       | PASS   | H        | PK     |
| 4     | 4874.1249   | -16.21      | 69.73                 | 53.52          | 74.00          | 20.48       | PASS   | H        | PK     |
| 5     | 7310.2874   | -11.67      | 68.10                 | 56.43          | 74.00          | 17.57       | PASS   | H        | PK     |
| 6     | 9209.414    | -7.88       | 48.22                 | 40.34          | 74.00          | 33.66       | PASS   | H        | PK     |
| 7     | 4875.125    | -16.21      | 66.94                 | 50.73          | 54.00          | 3.27        | PASS   | H        | AV     |
| 8     | 7313.2876   | -11.67      | 64.99                 | 53.32          | 54.00          | 0.68        | PASS   | H        | AV     |
| 9     | 1405.4405   | 1.40        | 38.53                 | 39.93          | 74.00          | 34.07       | PASS   | V        | PK     |
| 10    | 1848.4848   | 3.64        | 37.83                 | 41.47          | 74.00          | 32.53       | PASS   | V        | PK     |
| 11    | 3790.0527   | -19.31      | 54.69                 | 35.38          | 74.00          | 38.62       | PASS   | V        | PK     |
| 12    | 4874.1249   | -16.21      | 63.62                 | 47.41          | 74.00          | 26.59       | PASS   | V        | PK     |
| 13    | 7312.2875   | -11.67      | 59.13                 | 47.46          | 74.00          | 26.54       | PASS   | V        | PK     |
| 14    | 10377.4918  | -6.32       | 47.65                 | 41.33          | 74.00          | 32.67       | PASS   | V        | PK     |

| Mode: |             |             | 802.11 b Transmitting |                |                | Channel:    |        | 2462MHz  |        |
|-------|-------------|-------------|-----------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]        | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1608.6609   | 2.35        | 38.05                 | 40.40          | 74.00          | 33.60       | PASS   | H        | PK     |
| 2     | 1974.6975   | 4.42        | 37.98                 | 42.40          | 74.00          | 31.60       | PASS   | H        | PK     |
| 3     | 3692.0461   | -19.96      | 56.65                 | 36.69          | 74.00          | 37.31       | PASS   | H        | PK     |
| 4     | 4924.1283   | -16.11      | 75.49                 | 59.38          | 74.00          | 14.62       | PASS   | H        | PK     |
| 5     | 6155.2103   | -13.18      | 52.01                 | 38.83          | 74.00          | 35.17       | PASS   | H        | PK     |
| 6     | 7387.2925   | -11.53      | 68.85                 | 57.32          | 74.00          | 16.68       | PASS   | H        | PK     |
| 7     | 4921.1281   | -16.12      | 45.95                 | 29.83          | 54.00          | 24.17       | PASS   | H        | AV     |
| 8     | 7372.2915   | -11.56      | 43.00                 | 31.44          | 54.00          | 22.56       | PASS   | H        | AV     |
| 9     | 1417.2417   | 1.41        | 39.18                 | 40.59          | 74.00          | 33.41       | PASS   | V        | PK     |
| 10    | 1816.8817   | 3.41        | 37.96                 | 41.37          | 74.00          | 32.63       | PASS   | V        | PK     |
| 11    | 3810.054    | -19.22      | 54.15                 | 34.93          | 74.00          | 39.07       | PASS   | V        | PK     |
| 12    | 4924.1283   | -16.11      | 66.14                 | 50.03          | 74.00          | 23.97       | PASS   | V        | PK     |
| 13    | 7385.2924   | -11.53      | 60.59                 | 49.06          | 74.00          | 24.94       | PASS   | V        | PK     |
| 14    | 10764.5176  | -6.32       | 47.42                 | 41.10          | 74.00          | 32.90       | PASS   | V        | PK     |

**ANT 2:**

| Mode: |             |             | 802.11 b Transmitting |                |                | Channel:    |        | 2412MHz  |        |
|-------|-------------|-------------|-----------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]        | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1430.6431   | 1.41        | 38.56                 | 39.97          | 74.00          | 34.03       | PASS   | H        | PK     |
| 2     | 1745.6746   | 3.09        | 38.57                 | 41.66          | 74.00          | 32.34       | PASS   | H        | PK     |
| 3     | 3618.0412   | -20.29      | 55.34                 | 35.05          | 74.00          | 38.95       | PASS   | H        | PK     |
| 4     | 4824.1216   | -16.22      | 80.57                 | 64.35          | 74.00          | 9.65        | PASS   | H        | PK     |
| 5     | 6030.202    | -13.01      | 50.53                 | 37.52          | 74.00          | 36.48       | PASS   | H        | PK     |
| 6     | 7234.2823   | -11.79      | 55.39                 | 43.60          | 74.00          | 30.40       | PASS   | H        | PK     |
| 7     | 4834.1223   | -16.22      | 47.29                 | 31.07          | 54.00          | 22.93       | PASS   | H        | AV     |
| 8     | 1451.0451   | 1.43        | 38.84                 | 40.27          | 74.00          | 33.73       | PASS   | V        | PK     |
| 9     | 1756.0756   | 3.13        | 38.00                 | 41.13          | 74.00          | 32.87       | PASS   | V        | PK     |
| 10    | 3813.0542   | -19.22      | 53.48                 | 34.26          | 74.00          | 39.74       | PASS   | V        | PK     |
| 11    | 4824.1216   | -16.22      | 71.75                 | 55.53          | 74.00          | 18.47       | PASS   | V        | PK     |
| 12    | 6466.2311   | -12.75      | 49.35                 | 36.60          | 74.00          | 37.40       | PASS   | V        | PK     |
| 13    | 8519.368    | -10.51      | 48.40                 | 37.89          | 74.00          | 36.11       | PASS   | V        | PK     |
| 14    | 4825.1217   | -16.22      | 68.90                 | 52.68          | 54.00          | 1.32        | PASS   | V        | AV     |

| Mode: |             |             | 802.11 b Transmitting |                |                | Channel:    |        | 2437MHz  |        |
|-------|-------------|-------------|-----------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]        | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1423.8424   | 1.41        | 40.40                 | 41.81          | 74.00          | 32.19       | PASS   | H        | PK     |
| 2     | 1877.4877   | 3.86        | 37.50                 | 41.36          | 74.00          | 32.64       | PASS   | H        | PK     |
| 3     | 3656.0437   | -20.12      | 56.03                 | 35.91          | 74.00          | 38.09       | PASS   | H        | PK     |
| 4     | 4874.1249   | -16.21      | 84.70                 | 68.49          | 74.00          | 5.51        | PASS   | H        | PK     |
| 5     | 7311.2874   | -11.67      | 58.50                 | 46.83          | 74.00          | 27.17       | PASS   | H        | PK     |
| 6     | 9748.4499   | -7.55       | 54.68                 | 47.13          | 74.00          | 26.87       | PASS   | H        | PK     |
| 7     | 4886.1257   | -16.20      | 48.93                 | 32.73          | 54.00          | 21.27       | PASS   | H        | AV     |
| 8     | 1438.2438   | 1.42        | 38.70                 | 40.12          | 74.00          | 33.88       | PASS   | V        | PK     |
| 9     | 1991.0991   | 4.50        | 37.88                 | 42.38          | 74.00          | 31.62       | PASS   | V        | PK     |
| 10    | 3377.0251   | -20.11      | 54.58                 | 34.47          | 74.00          | 39.53       | PASS   | V        | PK     |
| 11    | 4874.1249   | -16.21      | 75.80                 | 59.59          | 74.00          | 14.41       | PASS   | V        | PK     |
| 12    | 7310.2874   | -11.67      | 51.50                 | 39.83          | 74.00          | 34.17       | PASS   | V        | PK     |
| 13    | 9748.4499   | -7.55       | 52.04                 | 44.49          | 74.00          | 29.51       | PASS   | V        | PK     |
| 14    | 4886.1257   | -16.20      | 45.14                 | 28.94          | 54.00          | 25.06       | PASS   | V        | AV     |

| Mode: |             |             | 802.11 b Transmitting |                |                | Channel:    |        | 2462MHz  |        |
|-------|-------------|-------------|-----------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]        | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1409.641    | 1.40        | 38.82                 | 40.22          | 74.00          | 33.78       | PASS   | H        | PK     |
| 2     | 1939.894    | 4.23        | 38.44                 | 42.67          | 74.00          | 31.33       | PASS   | H        | PK     |
| 3     | 3692.0461   | -19.96      | 57.42                 | 37.46          | 74.00          | 36.54       | PASS   | H        | PK     |
| 4     | 4925.1283   | -16.10      | 76.20                 | 60.10          | 74.00          | 13.90       | PASS   | H        | PK     |
| 5     | 7386.2924   | -11.53      | 62.51                 | 50.98          | 74.00          | 23.02       | PASS   | H        | PK     |
| 6     | 9847.4565   | -7.23       | 56.85                 | 49.62          | 74.00          | 24.38       | PASS   | H        | PK     |
| 7     | 4932.1288   | -16.08      | 50.22                 | 34.14          | 54.00          | 19.86       | PASS   | H        | AV     |
| 8     | 1444.0444   | 1.42        | 38.40                 | 39.82          | 74.00          | 34.18       | PASS   | V        | PK     |
| 9     | 1946.4946   | 4.27        | 37.57                 | 41.84          | 74.00          | 32.16       | PASS   | V        | PK     |
| 10    | 3483.0322   | -20.05      | 54.91                 | 34.86          | 74.00          | 39.14       | PASS   | V        | PK     |
| 11    | 4924.1283   | -16.11      | 75.09                 | 58.98          | 74.00          | 15.02       | PASS   | V        | PK     |
| 12    | 7385.2924   | -11.53      | 53.98                 | 42.45          | 74.00          | 31.55       | PASS   | V        | PK     |
| 13    | 9847.4565   | -7.23       | 54.19                 | 46.96          | 74.00          | 27.04       | PASS   | V        | PK     |
| 14    | 4918.1279   | -16.13      | 43.43                 | 27.30          | 54.00          | 26.70       | PASS   | V        | AV     |

MIMO:

| Mode: |             |             | 802.11 n(HT20) Transmitting |                |                | Channel:    |        | 2412MHz  |        |
|-------|-------------|-------------|-----------------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]              | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1382.6383   | 1.33        | 38.94                       | 40.27          | 74.00          | 33.73       | PASS   | H        | PK     |
| 2     | 1899.4899   | 4.03        | 38.01                       | 42.04          | 74.00          | 31.96       | PASS   | H        | PK     |
| 3     | 4821.1214   | -16.22      | 74.59                       | 58.37          | 74.00          | 15.63       | PASS   | H        | PK     |
| 4     | 6030.202    | -13.01      | 49.99                       | 36.98          | 74.00          | 37.02       | PASS   | H        | PK     |
| 5     | 7236.2824   | -11.78      | 62.33                       | 50.55          | 74.00          | 23.45       | PASS   | H        | PK     |
| 6     | 9647.4432   | -7.51       | 50.45                       | 42.94          | 74.00          | 31.06       | PASS   | H        | PK     |
| 7     | 4822.1215   | -16.22      | 63.82                       | 47.60          | 54.00          | 6.40        | PASS   | H        | AV     |
| 8     | 1462.2462   | 1.44        | 38.32                       | 39.76          | 74.00          | 34.24       | PASS   | V        | PK     |
| 9     | 1940.8941   | 4.24        | 37.82                       | 42.06          | 74.00          | 31.94       | PASS   | V        | PK     |
| 10    | 3302.0201   | -19.81      | 53.45                       | 33.64          | 74.00          | 40.36       | PASS   | V        | PK     |
| 11    | 4824.1216   | -16.22      | 66.39                       | 50.17          | 74.00          | 23.83       | PASS   | V        | PK     |
| 12    | 7233.2822   | -11.79      | 53.64                       | 41.85          | 74.00          | 32.15       | PASS   | V        | PK     |
| 13    | 9647.4432   | -7.51       | 49.36                       | 41.85          | 74.00          | 32.15       | PASS   | V        | PK     |

| Mode: |             |             | 802.11 n(HT20) Transmitting |                |                | Channel:    |        | 2437MHz  |        |
|-------|-------------|-------------|-----------------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]              | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1524.4524   | 1.67        | 38.56                       | 40.23          | 74.00          | 33.77       | PASS   | H        | PK     |
| 2     | 1976.0976   | 4.42        | 37.42                       | 41.84          | 74.00          | 32.16       | PASS   | H        | PK     |
| 3     | 4876.1251   | -16.21      | 80.84                       | 64.63          | 74.00          | 9.37        | PASS   | H        | PK     |
| 4     | 6092.2061   | -13.13      | 50.37                       | 37.24          | 74.00          | 36.76       | PASS   | H        | PK     |
| 5     | 7309.2873   | -11.67      | 64.57                       | 52.90          | 74.00          | 21.10       | PASS   | H        | PK     |
| 6     | 9748.4499   | -7.55       | 53.61                       | 46.06          | 74.00          | 27.94       | PASS   | H        | PK     |
| 7     | 4872.1248   | -16.21      | 68.24                       | 52.03          | 54.00          | 1.97        | PASS   | H        | AV     |
| 8     | 7313.2876   | -11.67      | 52.76                       | 41.09          | 54.00          | 12.91       | PASS   | H        | AV     |
| 9     | 1562.2562   | 1.98        | 38.62                       | 40.60          | 74.00          | 33.40       | PASS   | V        | PK     |
| 10    | 2021.3021   | 4.62        | 37.48                       | 42.10          | 74.00          | 31.90       | PASS   | V        | PK     |
| 11    | 4869.1246   | -16.21      | 71.24                       | 55.03          | 74.00          | 18.97       | PASS   | V        | PK     |
| 12    | 6272.2181   | -13.01      | 48.86                       | 35.85          | 74.00          | 38.15       | PASS   | V        | PK     |
| 13    | 7310.2874   | -11.67      | 56.02                       | 44.35          | 74.00          | 29.65       | PASS   | V        | PK     |
| 14    | 9747.4498   | -7.55       | 51.20                       | 43.65          | 74.00          | 30.35       | PASS   | V        | PK     |
| 15    | 4872.1248   | -16.21      | 59.30                       | 43.09          | 54.00          | 10.91       | PASS   | V        | AV     |

| Mode: |             |             | 802.11 n(HT20) Transmitting |                |                | Channel:    |        | 2462MHz  |        |
|-------|-------------|-------------|-----------------------------|----------------|----------------|-------------|--------|----------|--------|
| NO    | Freq. [MHz] | Factor [dB] | Reading [dBμV]              | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1     | 1402.4402   | 1.39        | 38.50                       | 39.89          | 74.00          | 34.11       | PASS   | H        | PK     |
| 2     | 1950.495    | 4.29        | 37.53                       | 41.82          | 74.00          | 32.18       | PASS   | H        | PK     |
| 3     | 4925.1283   | -16.10      | 77.61                       | 61.51          | 74.00          | 12.49       | PASS   | H        | PK     |
| 4     | 6155.2103   | -13.18      | 50.24                       | 37.06          | 74.00          | 36.94       | PASS   | H        | PK     |
| 5     | 7384.2923   | -11.54      | 66.32                       | 54.78          | 74.00          | 19.22       | PASS   | H        | PK     |
| 6     | 9848.4566   | -7.23       | 54.52                       | 47.29          | 74.00          | 26.71       | PASS   | H        | PK     |
| 7     | 4924.1283   | -16.11      | 66.98                       | 50.87          | 54.00          | 3.13        | PASS   | H        | AV     |
| 8     | 7383.2922   | -11.54      | 54.63                       | 43.09          | 54.00          | 10.91       | PASS   | H        | AV     |
| 9     | 1496.8497   | 1.47        | 38.34                       | 39.81          | 74.00          | 34.19       | PASS   | V        | PK     |
| 10    | 1935.6936   | 4.22        | 37.33                       | 41.55          | 74.00          | 32.45       | PASS   | V        | PK     |
| 11    | 4920.128    | -16.12      | 71.61                       | 55.49          | 74.00          | 18.51       | PASS   | V        | PK     |
| 12    | 6088.2059   | -13.13      | 49.57                       | 36.44          | 74.00          | 37.56       | PASS   | V        | PK     |
| 13    | 7387.2925   | -11.53      | 58.62                       | 47.09          | 74.00          | 26.91       | PASS   | V        | PK     |
| 14    | 9848.4566   | -7.23       | 52.16                       | 44.93          | 74.00          | 29.07       | PASS   | V        | PK     |
| 15    | 4921.1281   | -16.12      | 60.02                       | 43.90          | 54.00          | 10.10       | PASS   | V        | AV     |

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. 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. So, only the peak measurements were shown in the report.

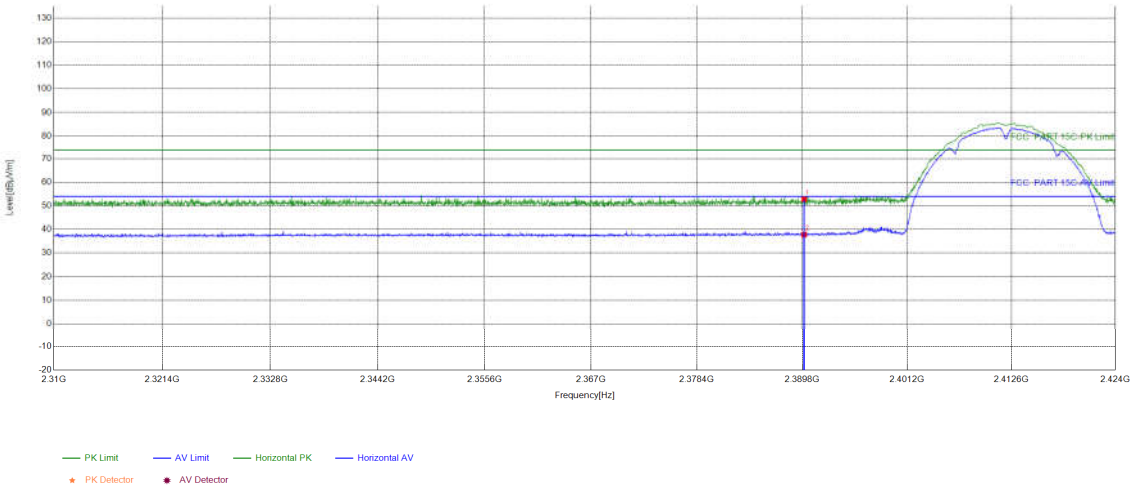
Restricted bands:

Test plot as follows:

ANT 1:

|               |                       |                |           |
|---------------|-----------------------|----------------|-----------|
| EUT_Name      |                       | Test_Model     |           |
| Test_Mode     | 802.11 b Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng             | Test_Date      | 2023/7/15 |
| Remark        |                       |                |           |

Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 39.00          | 52.75          | 74.00          | 21.25       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 24.05          | 37.80          | 54.00          | 16.20       | PASS   | Horizontal | AV     |

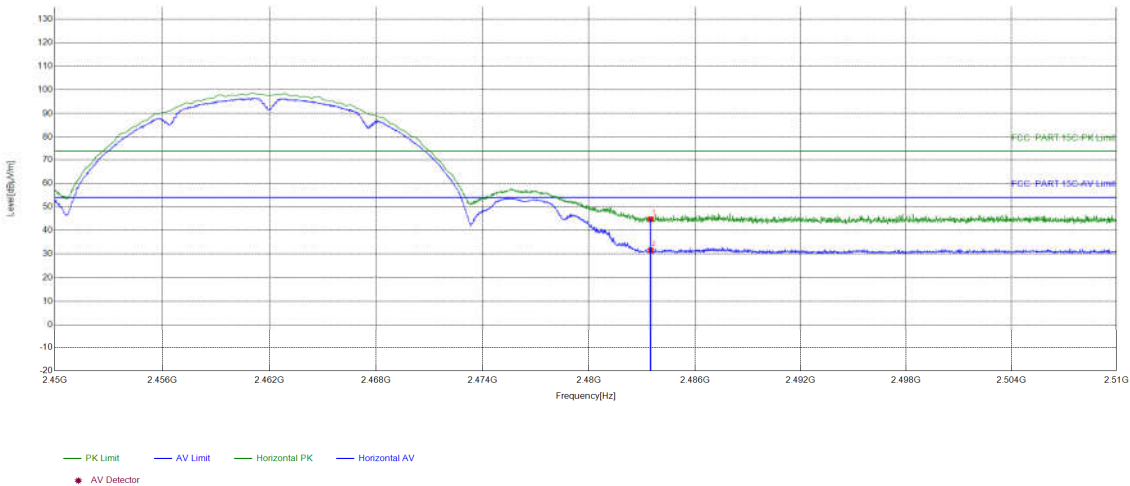
## Test Graph



Hotline:400-6788-333    www.cti-cert.com    E-mail:info@cti-cert.com    Complaint call:0755-33681700    Complaint E-mail:complaint@cti-cert.com

|               |                       |                |           |
|---------------|-----------------------|----------------|-----------|
| EUT_Name      |                       | Test_Model     |           |
| Test_Mode     | 802.11 b Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng             | Test_Date      | 2023/7/15 |
| Remark        |                       |                |           |

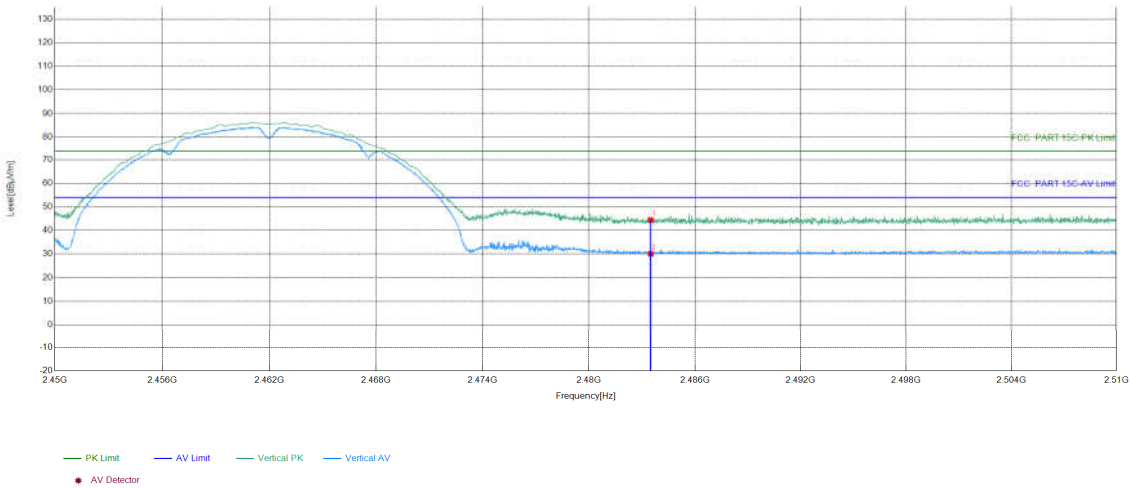
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 38.23          | 44.80          | 74.00          | 29.20       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 25.01          | 31.58          | 54.00          | 22.42       | PASS   | Horizontal | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 b<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

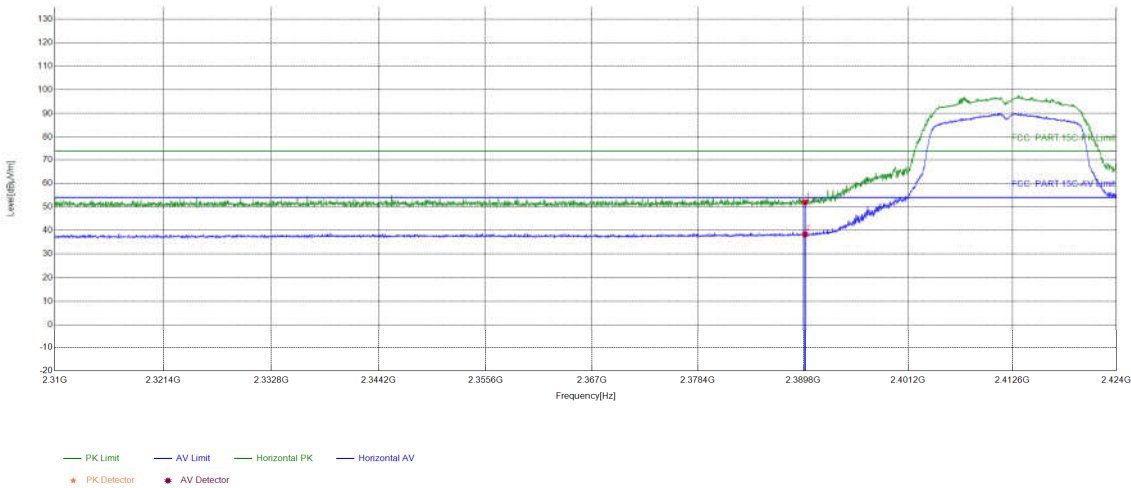
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 37.86          | 44.43          | 74.00          | 29.57       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 23.51          | 30.08          | 54.00          | 23.92       | PASS   | Vertical | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 g<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

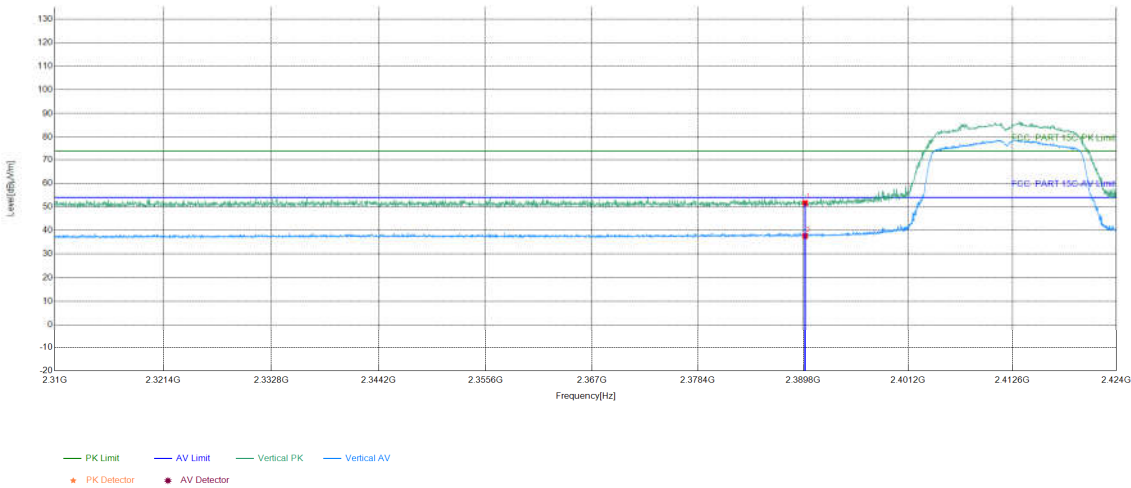
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 38.26          | 52.01          | 74.00          | 21.99       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 24.61          | 38.36          | 54.00          | 15.64       | PASS   | Horizontal | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 g<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

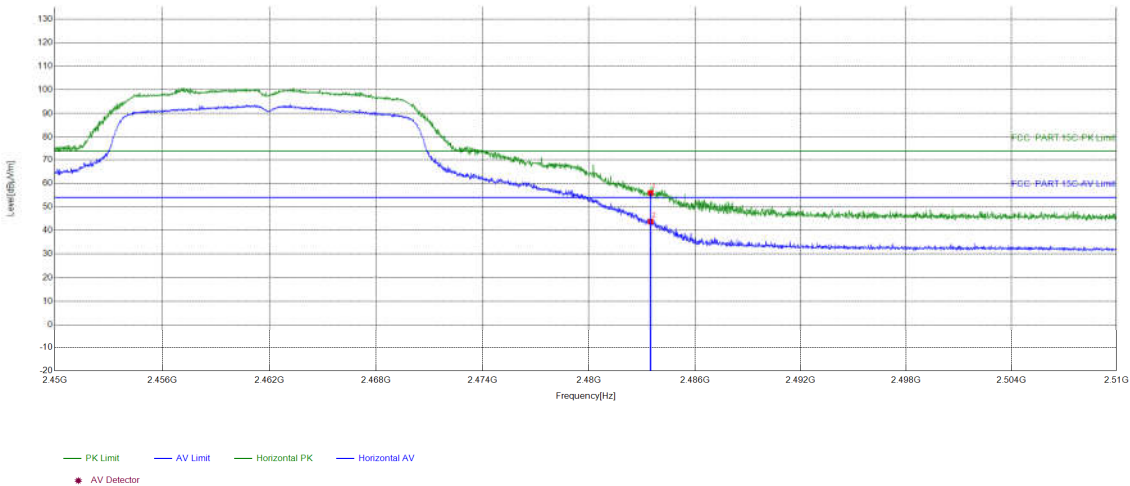
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 13.75       | 37.88          | 51.63          | 74.00          | 22.37       | PASS   | Vertical | PK     |
| 2              | 2390        | 13.75       | 23.91          | 37.66          | 54.00          | 16.34       | PASS   | Vertical | AV     |

|               |                       |                |           |
|---------------|-----------------------|----------------|-----------|
| EUT_Name      |                       | Test_Model     |           |
| Test_Mode     | 802.11 g Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng             | Test_Date      | 2023/7/15 |
| Remark        |                       |                |           |

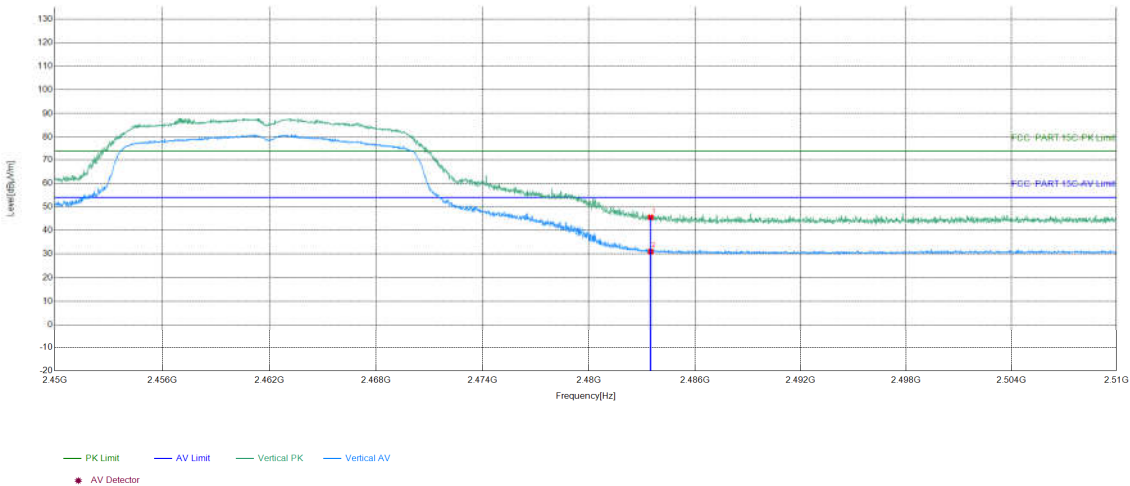
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 49.34          | 55.91          | 74.00          | 18.09       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 37.21          | 43.78          | 54.00          | 10.22       | PASS   | Horizontal | AV     |

|               |                       |                |           |
|---------------|-----------------------|----------------|-----------|
| EUT_Name      |                       | Test_Model     |           |
| Test_Mode     | 802.11 g Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng             | Test_Date      | 2023/7/15 |
| Remark        |                       |                |           |

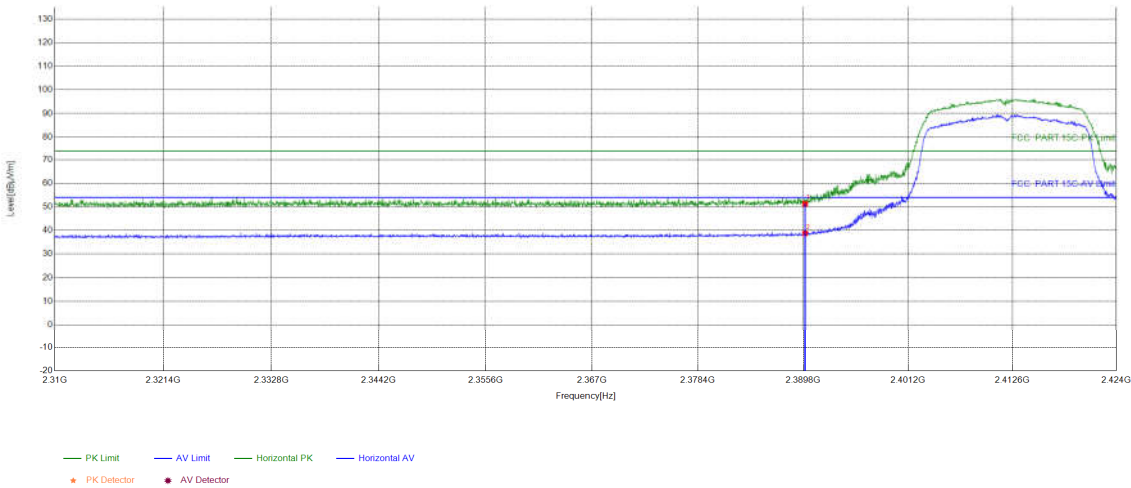
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 39.02          | 45.59          | 74.00          | 28.41       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 24.44          | 31.01          | 54.00          | 22.99       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

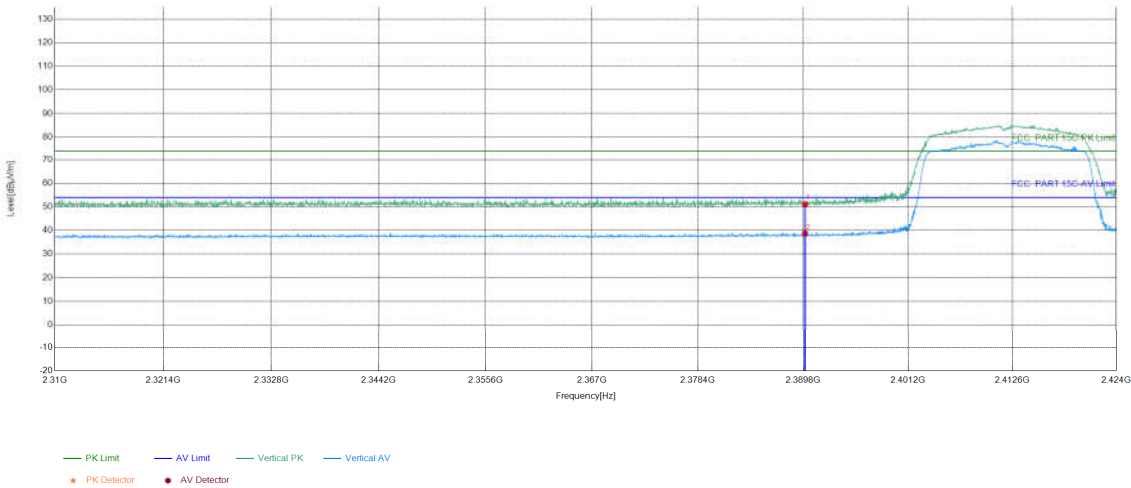
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 37.56          | 51.31          | 74.00          | 22.69       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 25.04          | 38.79          | 54.00          | 15.21       | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

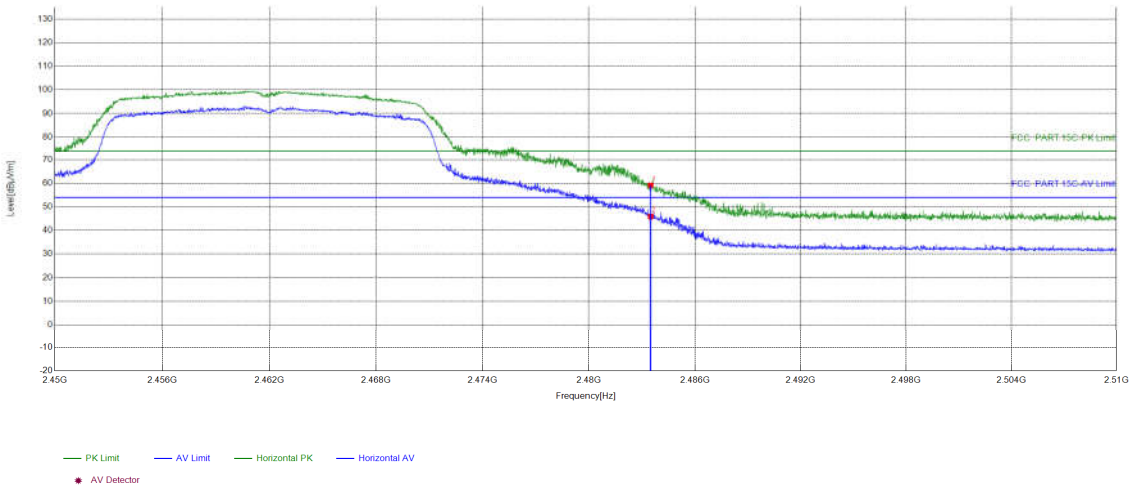
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 13.75       | 37.33          | 51.08          | 74.00          | 22.92       | PASS   | Vertical | PK     |
| 2              | 2390        | 13.75       | 24.95          | 38.70          | 54.00          | 15.30       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

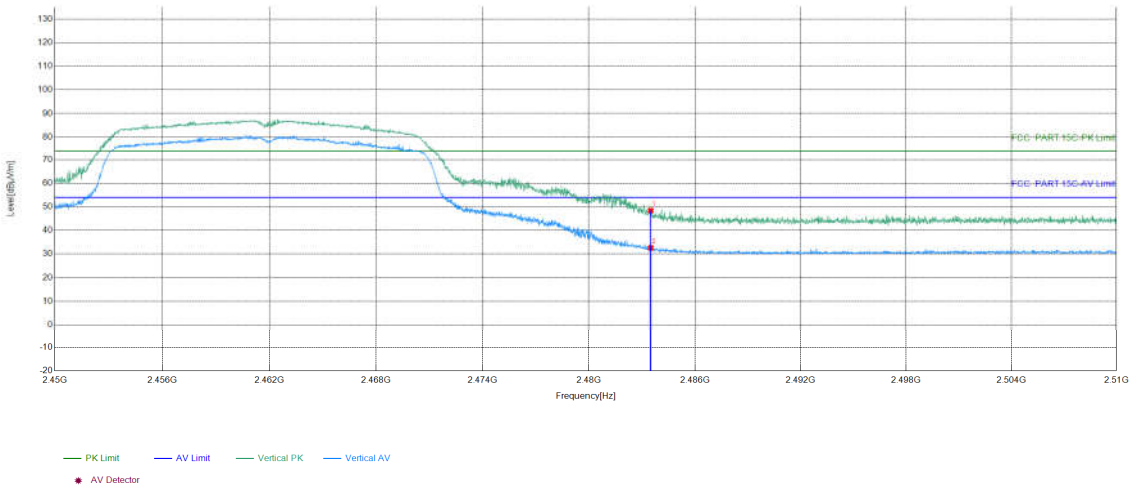
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 52.59          | 59.16          | 74.00          | 14.84       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 39.32          | 45.89          | 54.00          | 8.11        | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

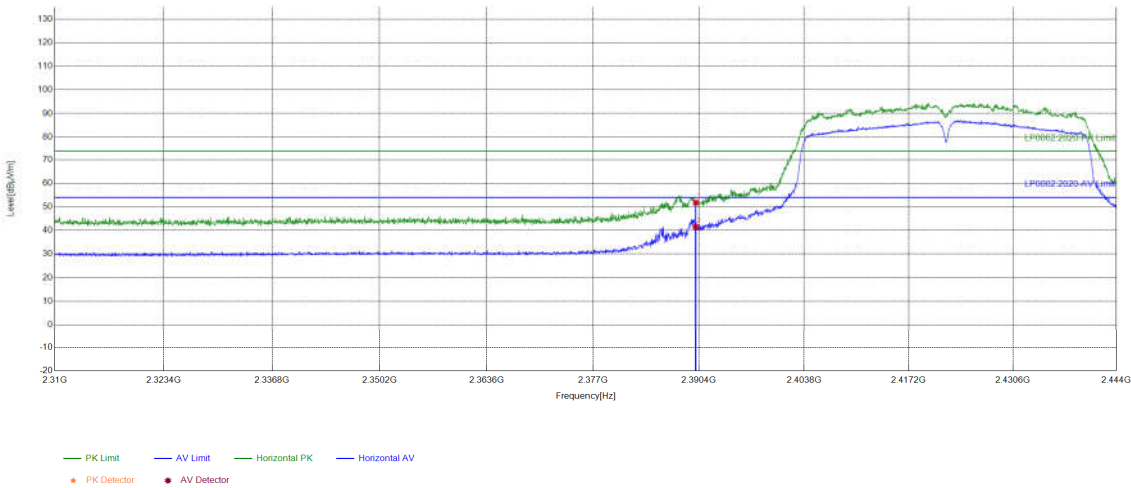
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 41.85          | 48.42          | 74.00          | 25.58       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 26.02          | 32.59          | 54.00          | 21.41       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2422MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

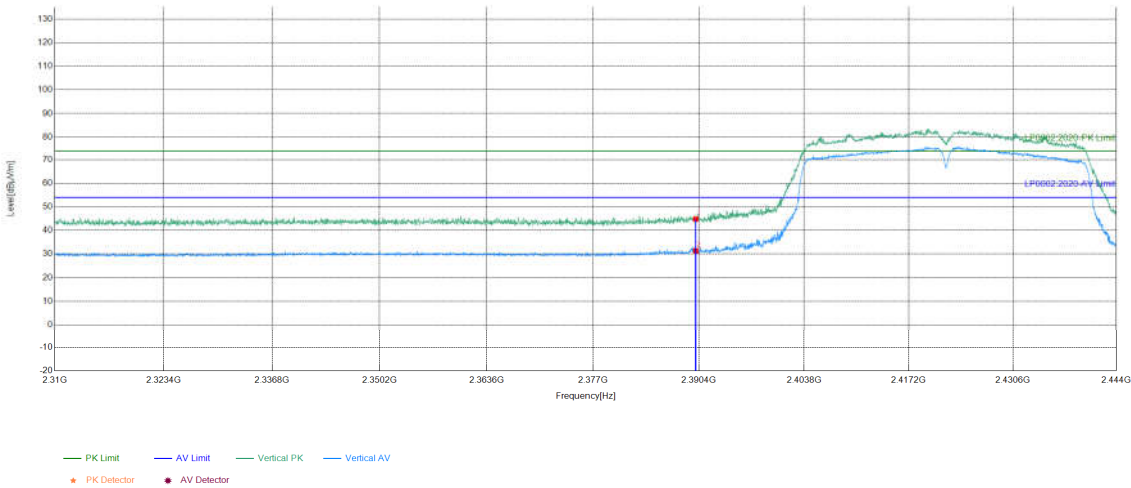
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 5.77        | 46.06          | 51.83          | 74.00          | 22.17       | PASS   | Horizontal | PK     |
| 2              | 2390        | 5.77        | 35.68          | 41.45          | 54.00          | 12.55       | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2422MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

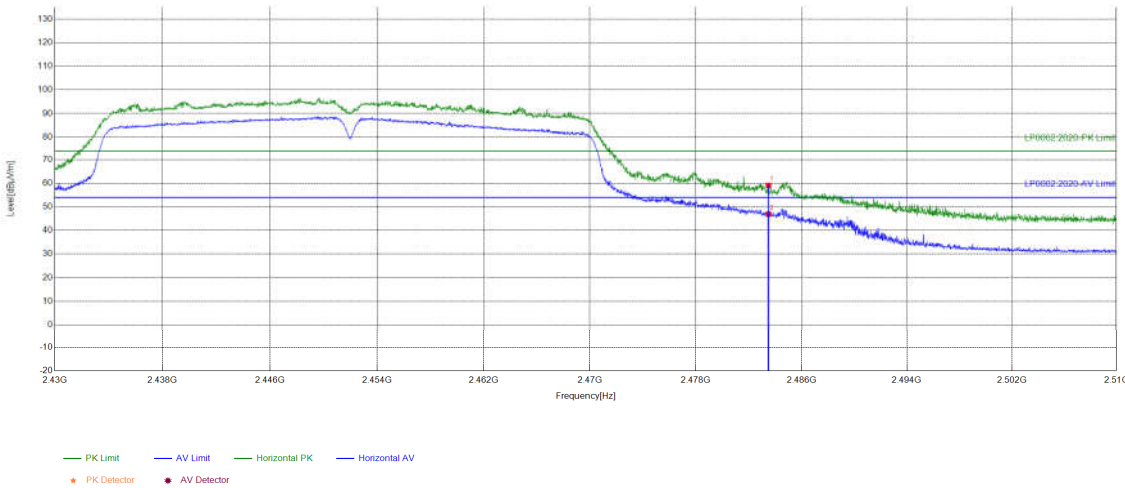
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 5.77        | 39.05          | 44.82          | 74.00          | 29.18       | PASS   | Vertical | PK     |
| 2              | 2390        | 5.77        | 25.59          | 31.36          | 54.00          | 22.64       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2452MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

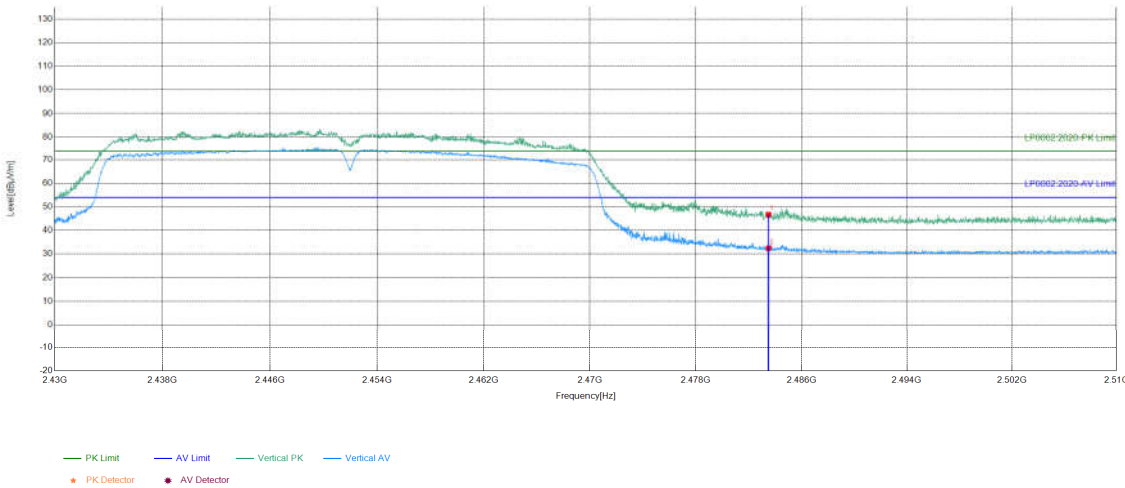
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 52.49          | 59.06          | 74.00          | 14.94       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 40.35          | 46.92          | 54.00          | 7.08        | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2452MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

Test Graph

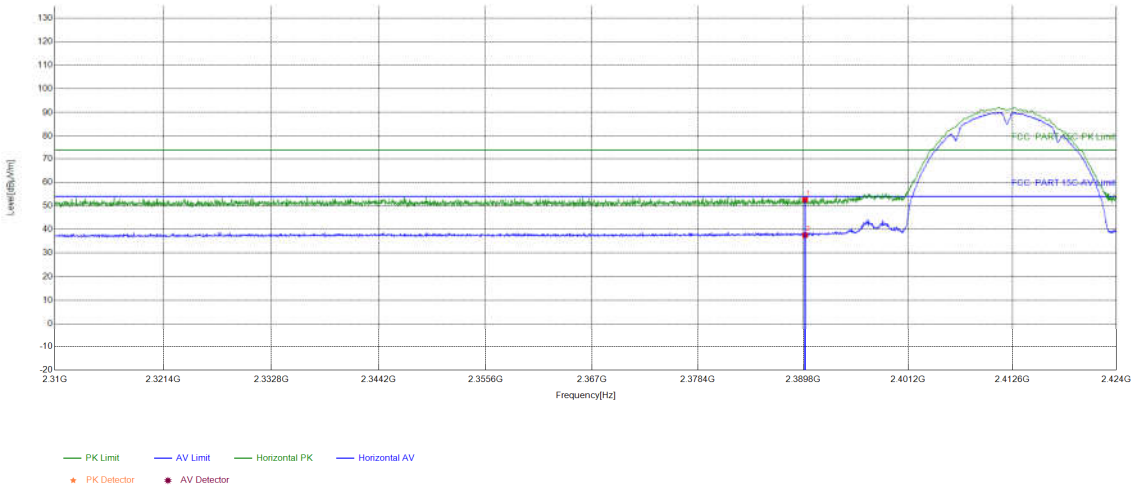


| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 40.13          | 46.70          | 74.00          | 27.30       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 25.85          | 32.42          | 54.00          | 21.58       | PASS   | Vertical | AV     |

ANT 2:

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 b<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

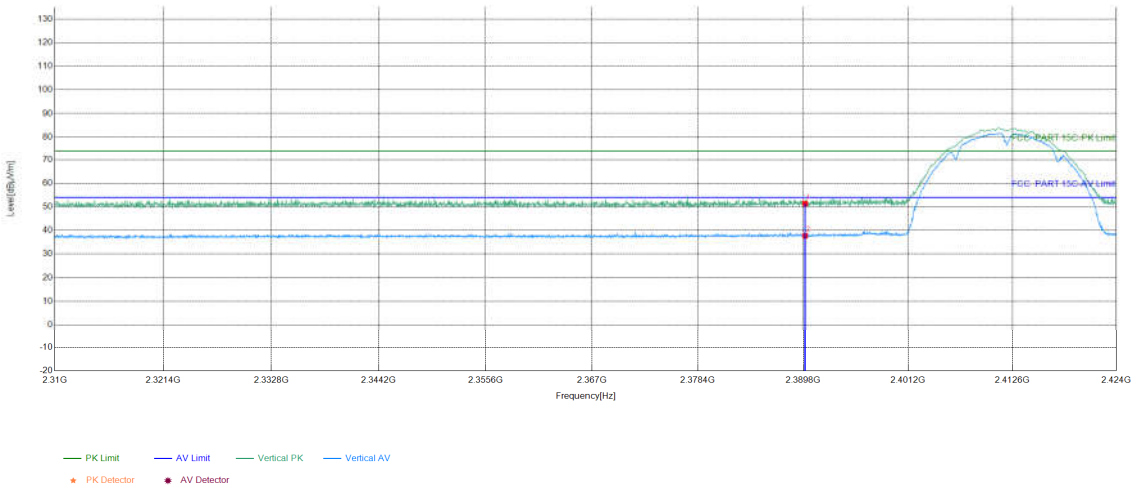
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 38.80          | 52.55          | 74.00          | 21.45       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 23.84          | 37.59          | 54.00          | 16.41       | PASS   | Horizontal | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 b<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

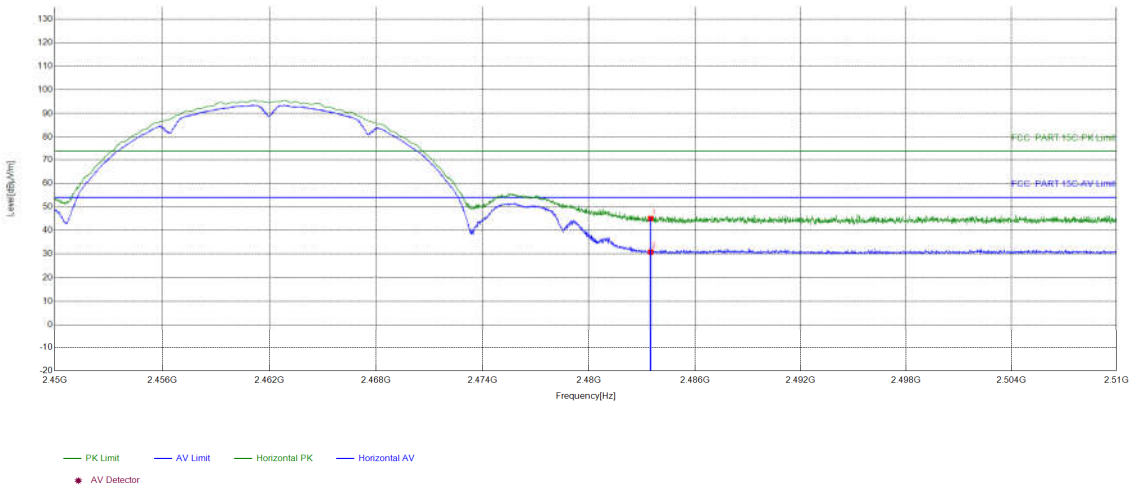
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 13.75       | 37.69          | 51.44          | 74.00          | 22.56       | PASS   | Vertical | PK     |
| 2              | 2390        | 13.75       | 23.98          | 37.73          | 54.00          | 16.27       | PASS   | Vertical | AV     |

|               |                       |                |           |
|---------------|-----------------------|----------------|-----------|
| EUT_Name      |                       | Test_Model     |           |
| Test_Mode     | 802.11 b Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng             | Test_Date      | 2023/7/15 |
| Remark        |                       |                |           |

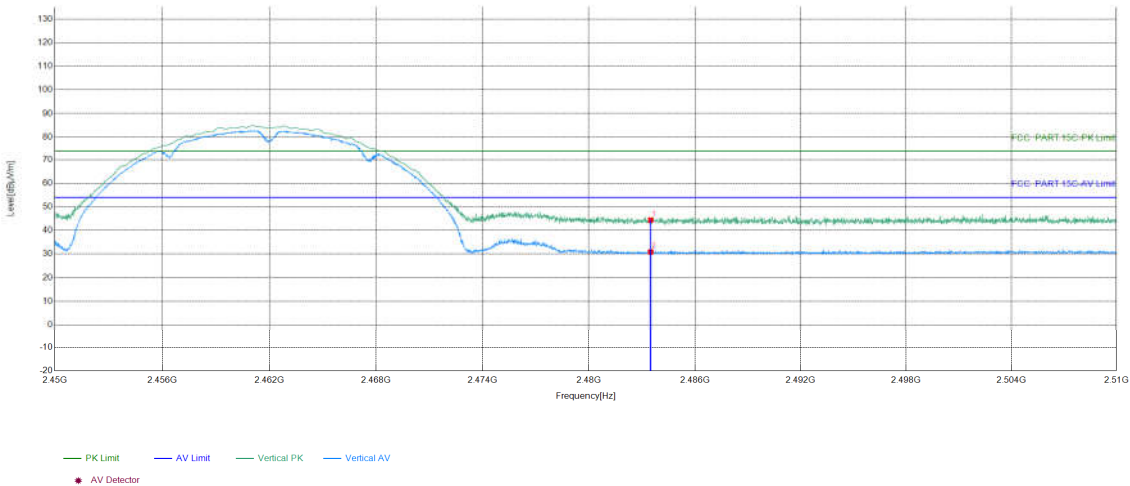
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 38.50          | 45.07          | 74.00          | 28.93       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 24.26          | 30.83          | 54.00          | 23.17       | PASS   | Horizontal | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 b<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

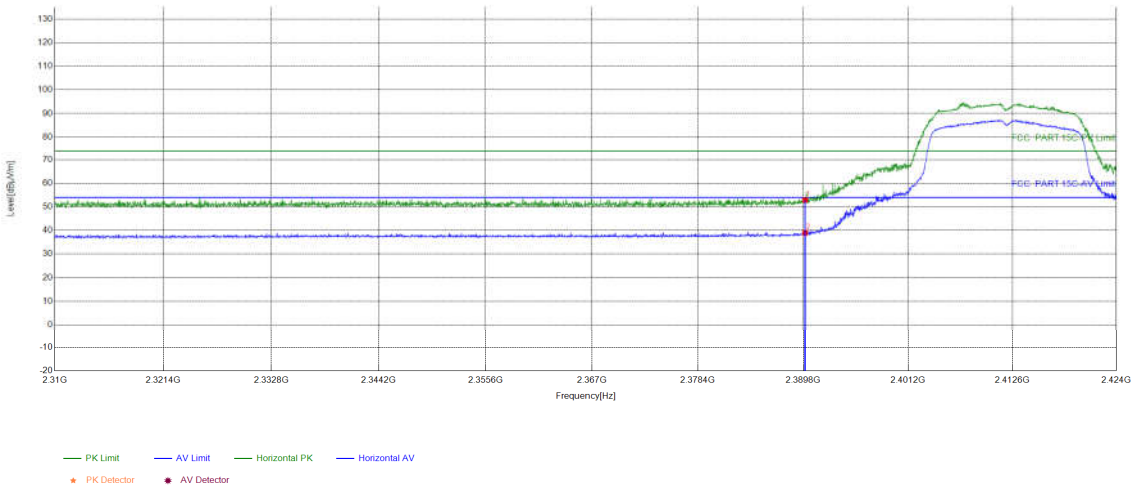
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 37.83          | 44.40          | 74.00          | 29.60       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 24.29          | 30.86          | 54.00          | 23.14       | PASS   | Vertical | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 g<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

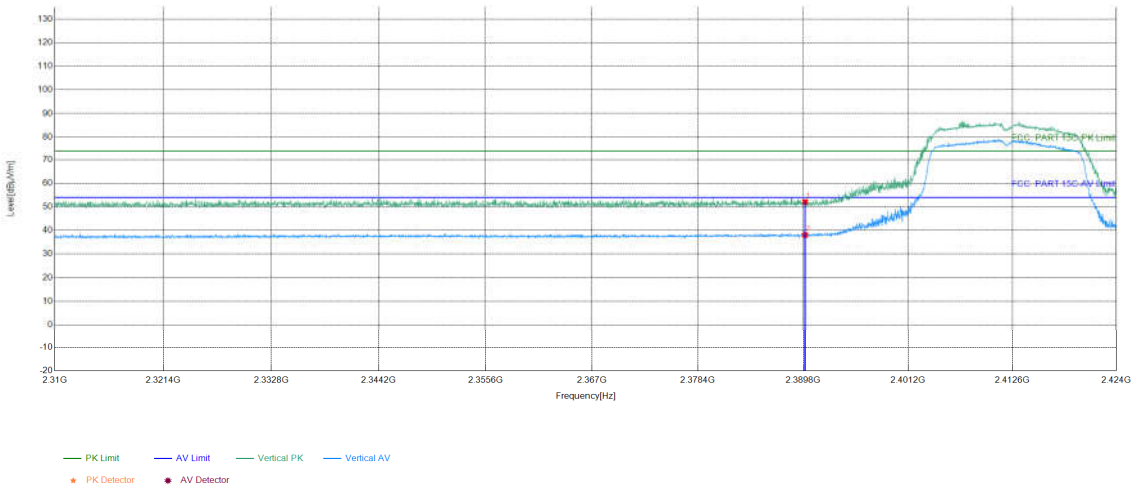
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 39.13          | 52.88          | 74.00          | 21.12       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 25.22          | 38.97          | 54.00          | 15.03       | PASS   | Horizontal | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 g<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

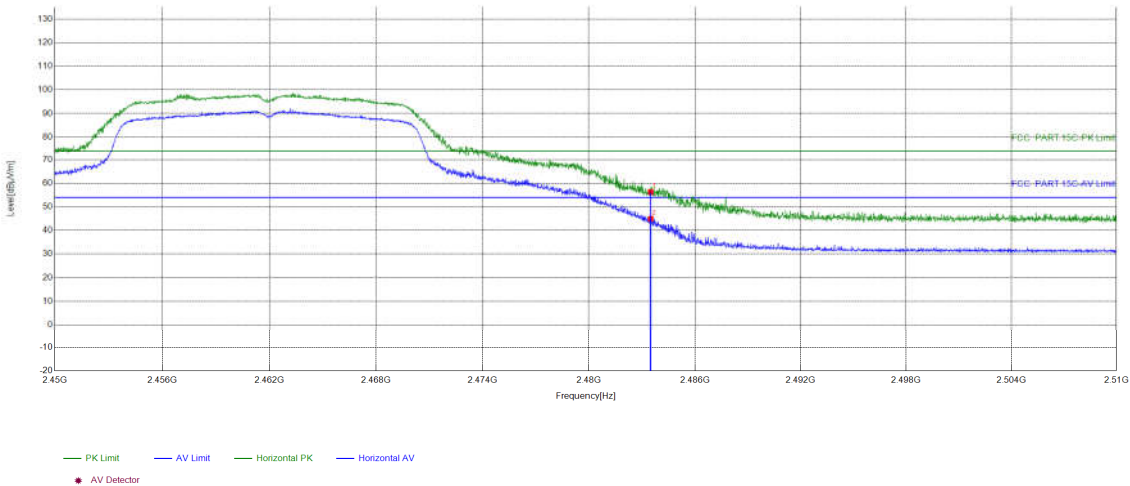
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 13.75       | 38.39          | 52.14          | 74.00          | 21.86       | PASS   | Vertical | PK     |
| 2              | 2390        | 13.75       | 24.31          | 38.06          | 54.00          | 15.94       | PASS   | Vertical | AV     |

|               |                          |                |           |
|---------------|--------------------------|----------------|-----------|
| EUT_Name      |                          | Test_Model     |           |
| Test_Mode     | 802.11 g<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                | Test_Date      | 2023/7/15 |
| Remark        |                          |                |           |

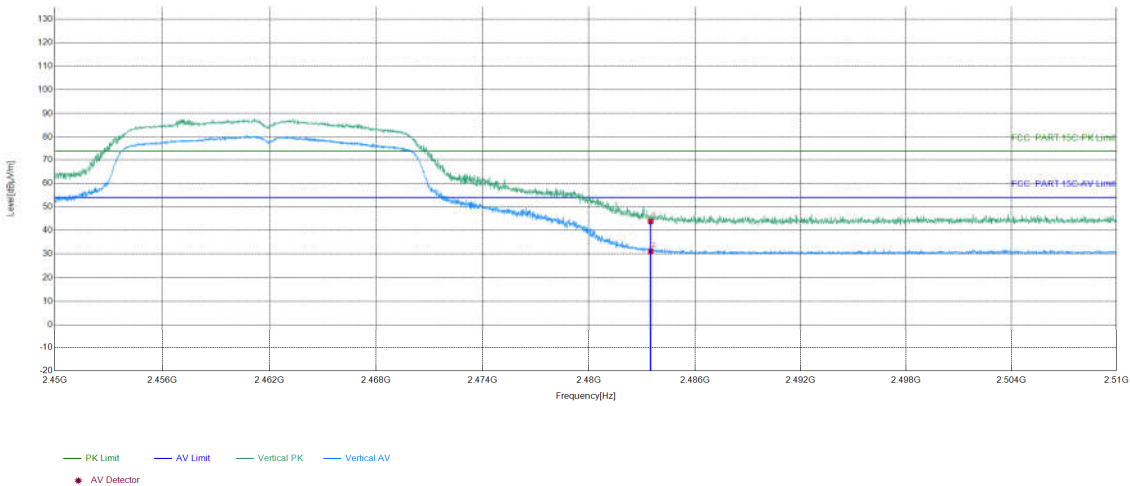
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 49.77          | 56.34          | 74.00          | 17.66       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 38.35          | 44.92          | 54.00          | 9.08        | PASS   | Horizontal | AV     |

|               |                       |                |           |
|---------------|-----------------------|----------------|-----------|
| EUT_Name      |                       | Test_Model     |           |
| Test_Mode     | 802.11 g Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng             | Test_Date      | 2023/7/15 |
| Remark        |                       |                |           |

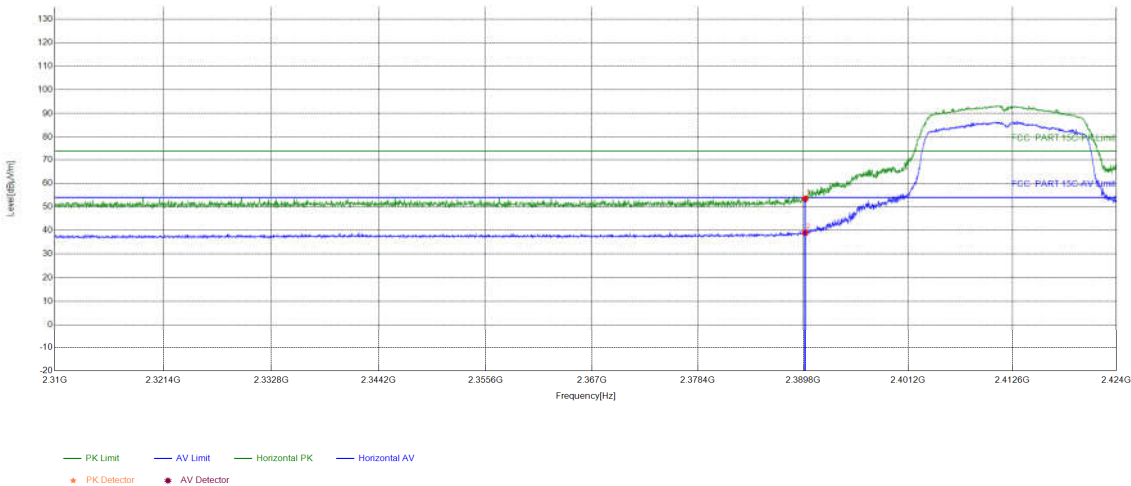
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 37.28          | 43.85          | 74.00          | 30.15       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 24.56          | 31.13          | 54.00          | 22.87       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

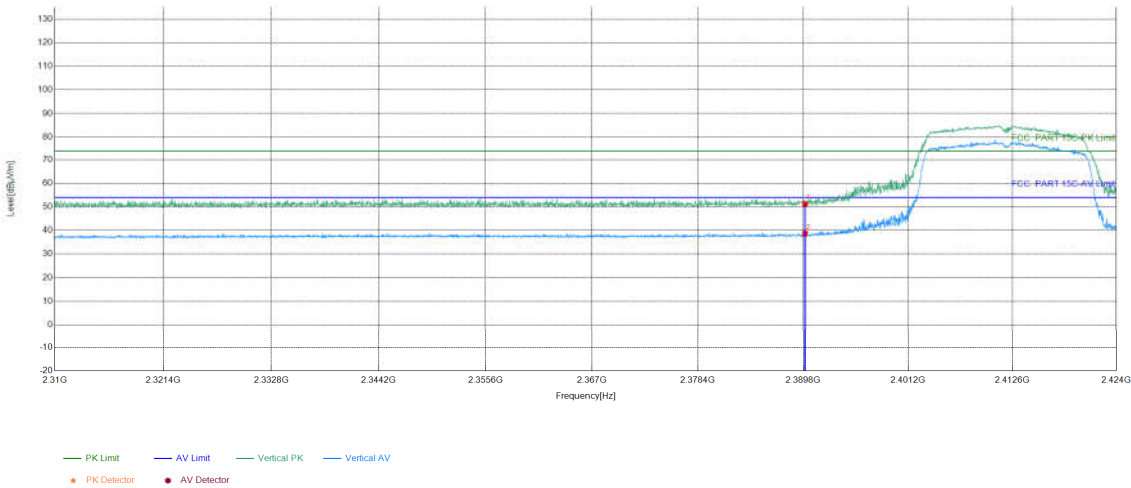
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 39.72          | 53.47          | 74.00          | 20.53       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 25.27          | 39.02          | 54.00          | 14.98       | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

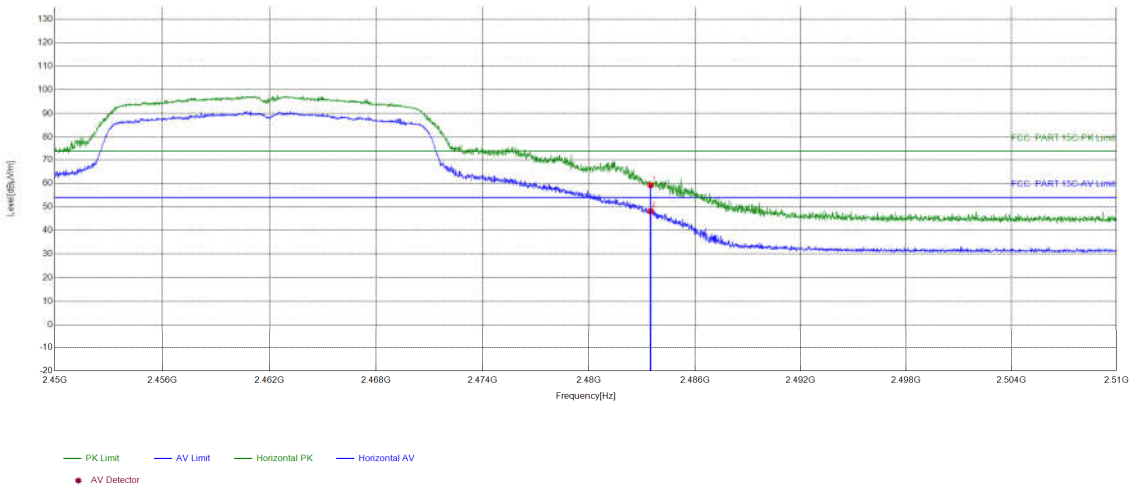
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 13.75       | 37.47          | 51.22          | 74.00          | 22.78       | PASS   | Vertical | PK     |
| 2              | 2390        | 13.75       | 24.89          | 38.64          | 54.00          | 15.36       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

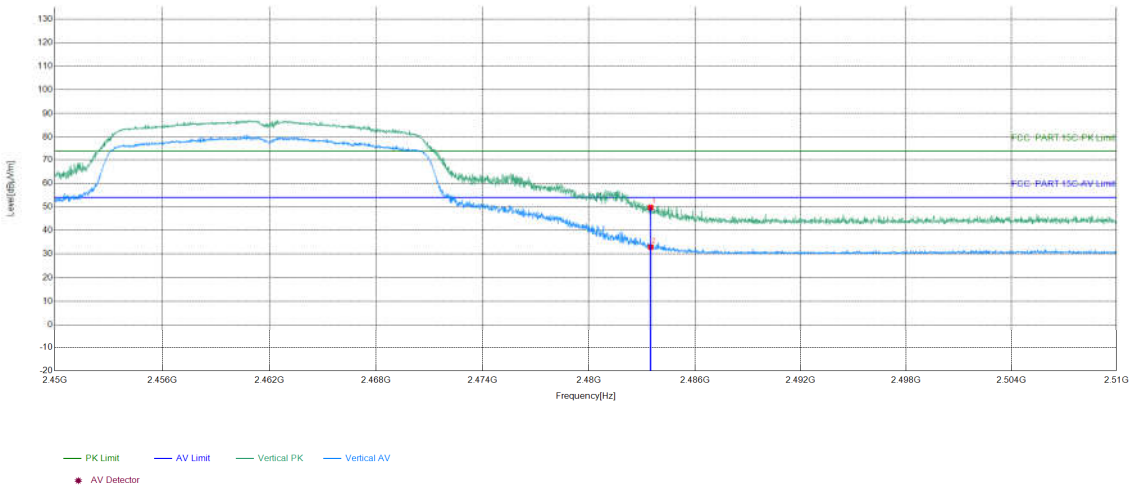
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 52.63          | 59.20          | 74.00          | 14.80       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 41.60          | 48.17          | 54.00          | 5.83        | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

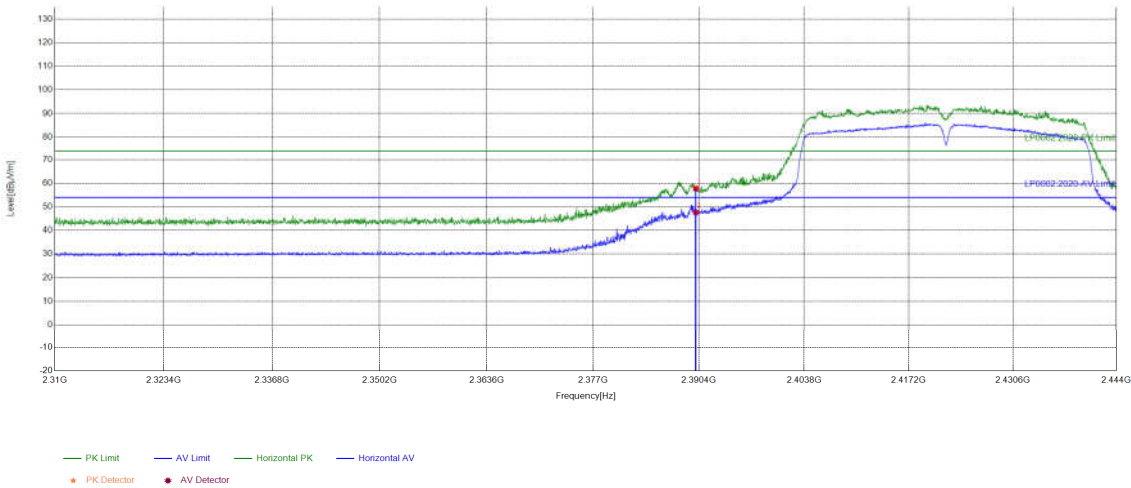
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 43.14          | 49.71          | 74.00          | 24.29       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 26.36          | 32.93          | 54.00          | 21.07       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2422MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

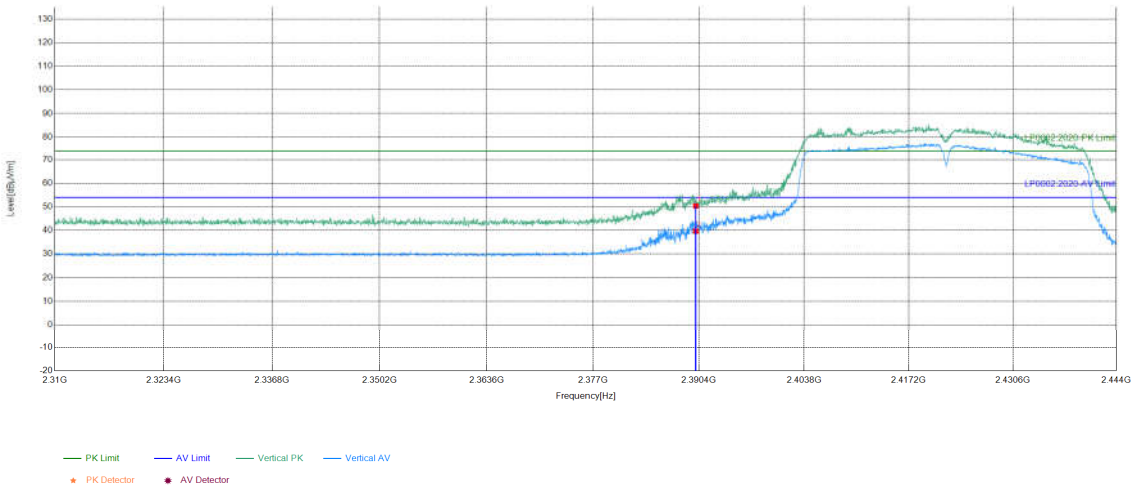
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 5.77        | 52.02          | 57.79          | 74.00          | 16.21       | PASS   | Horizontal | PK     |
| 2              | 2390        | 5.77        | 41.91          | 47.68          | 54.00          | 6.32        | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2422MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

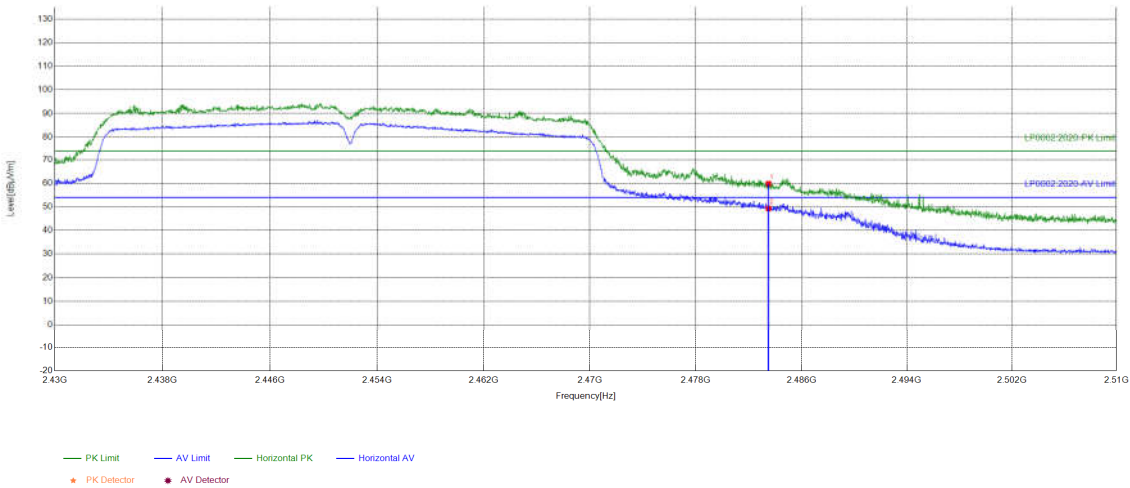
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 5.77        | 44.64          | 50.41          | 74.00          | 23.59       | PASS   | Vertical | PK     |
| 2              | 2390        | 5.77        | 33.96          | 39.73          | 54.00          | 14.27       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2452MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

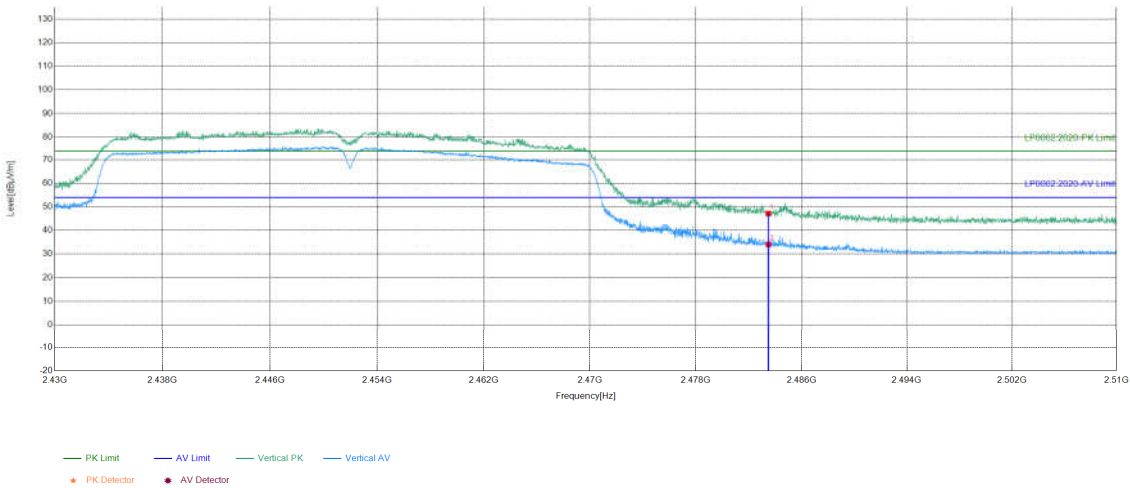
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 53.26          | 59.83          | 74.00          | 14.17       | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 42.76          | 49.33          | 54.00          | 4.67        | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2452MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

Test Graph

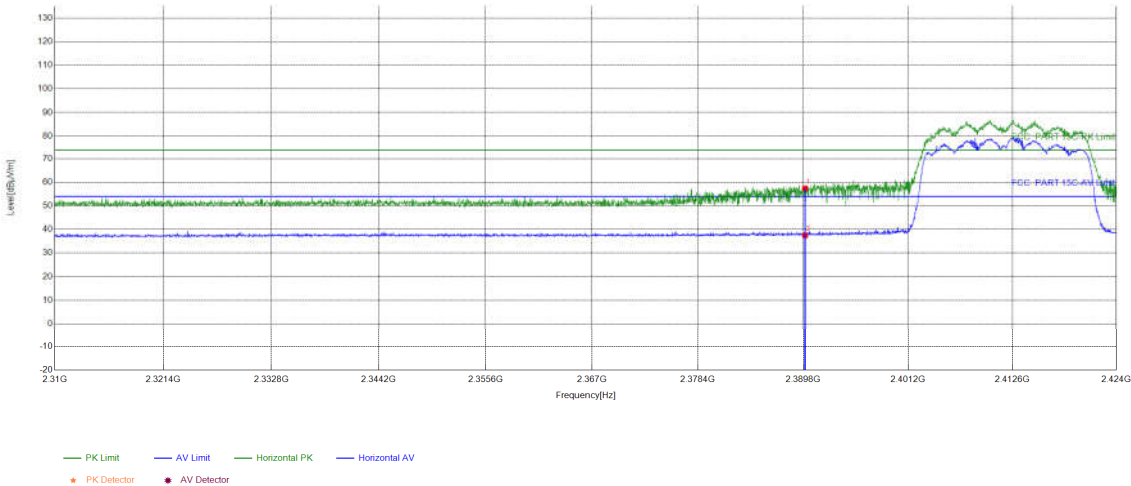


| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 40.61          | 47.18          | 74.00          | 26.82       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 27.47          | 34.04          | 54.00          | 19.96       | PASS   | Vertical | AV     |

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|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

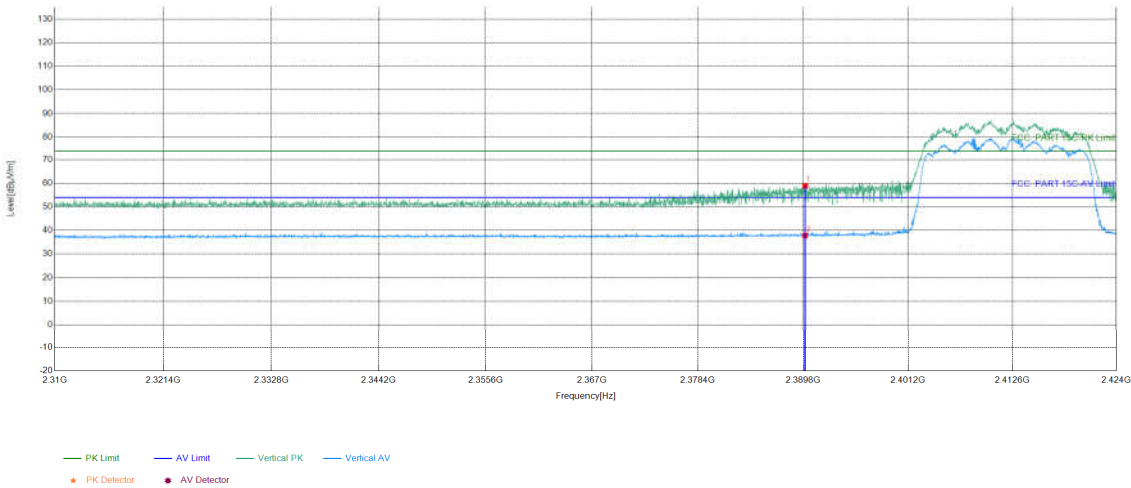
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 13.75       | 43.69          | 57.44          | 74.00          | 16.56       | PASS   | Horizontal | PK     |
| 2              | 2390        | 13.75       | 23.75          | 37.50          | 54.00          | 16.50       | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2412MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

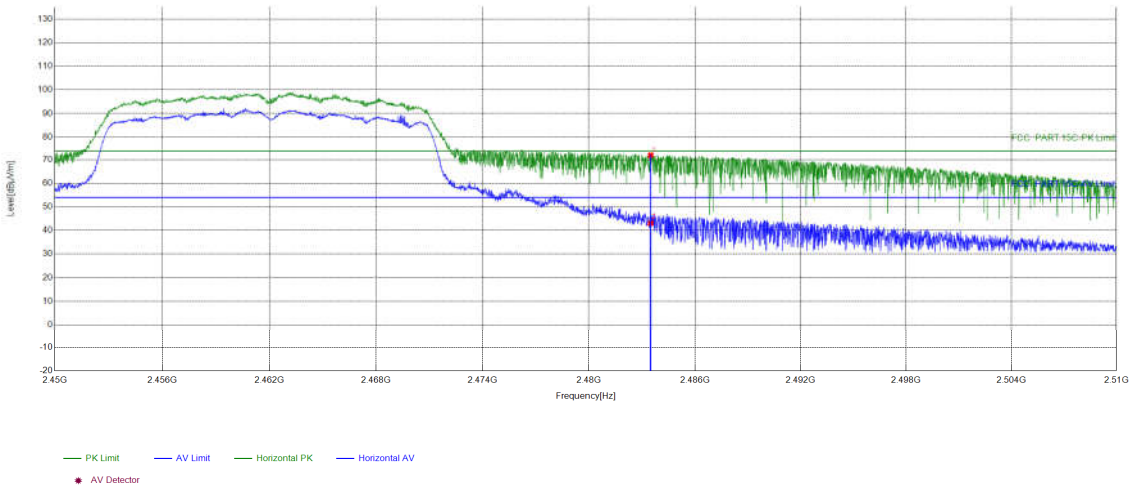
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 13.75       | 45.15          | 58.90          | 74.00          | 15.10       | PASS   | Vertical | PK     |
| 2              | 2390        | 13.75       | 24.09          | 37.84          | 54.00          | 16.16       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

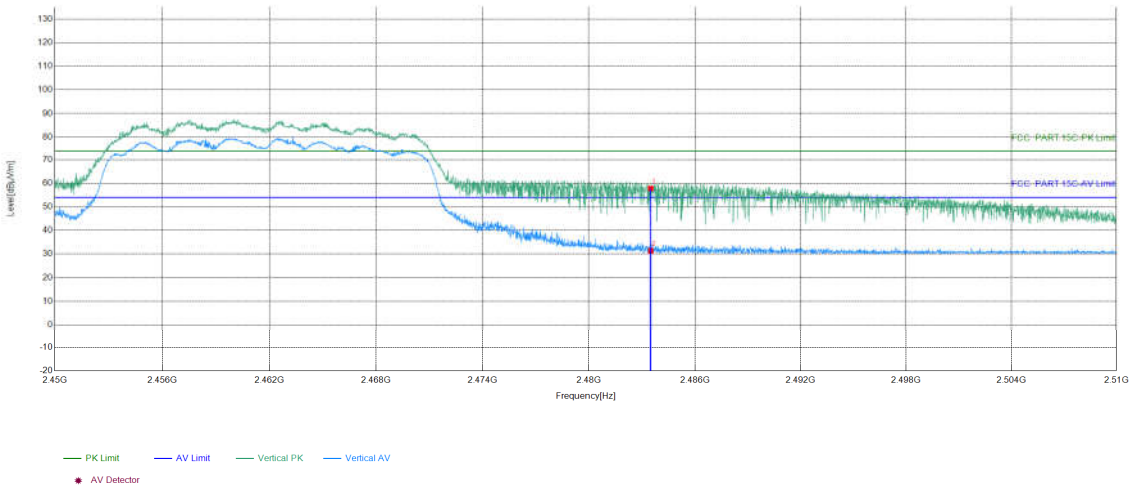
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 65.31          | 71.88          | 74.00          | 2.12        | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 36.51          | 43.08          | 54.00          | 10.92       | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT20)<br>Transmitting | Test_Frequency | 2462MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

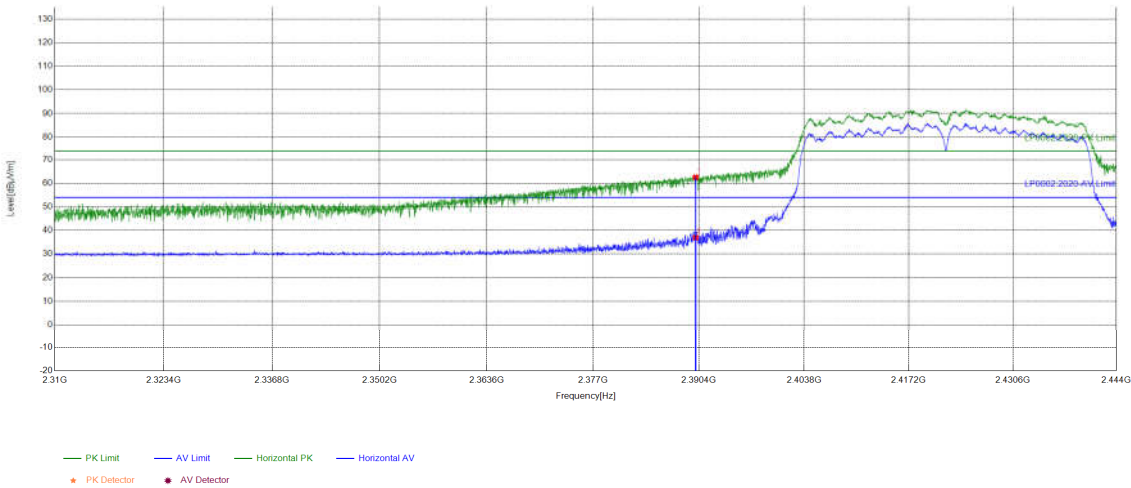
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 51.24          | 57.81          | 74.00          | 16.19       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 24.80          | 31.37          | 54.00          | 22.63       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2422MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

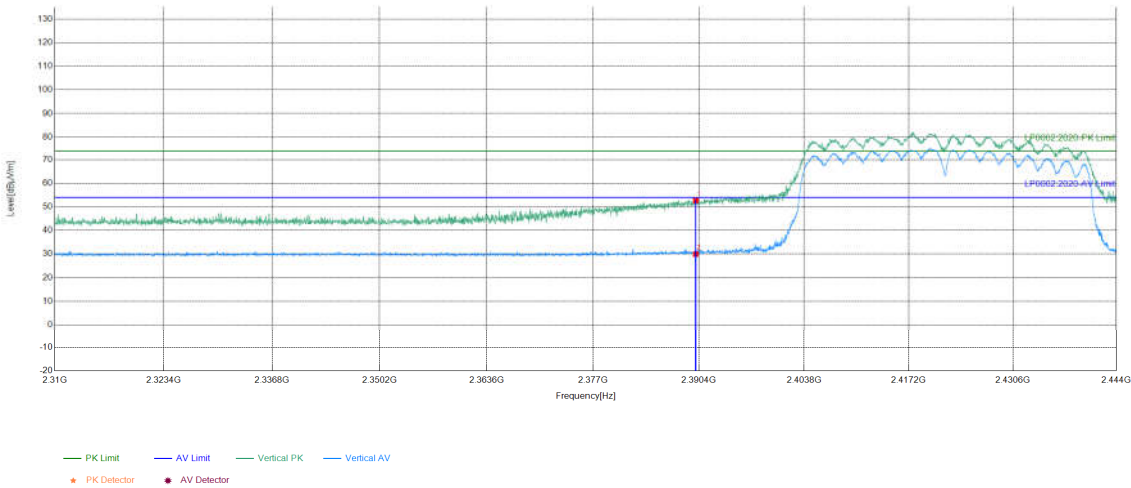
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2390        | 5.77        | 56.77          | 62.54          | 74.00          | 11.46       | PASS   | Horizontal | PK     |
| 2              | 2390        | 5.77        | 31.18          | 36.95          | 54.00          | 17.05       | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                |                |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2422MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

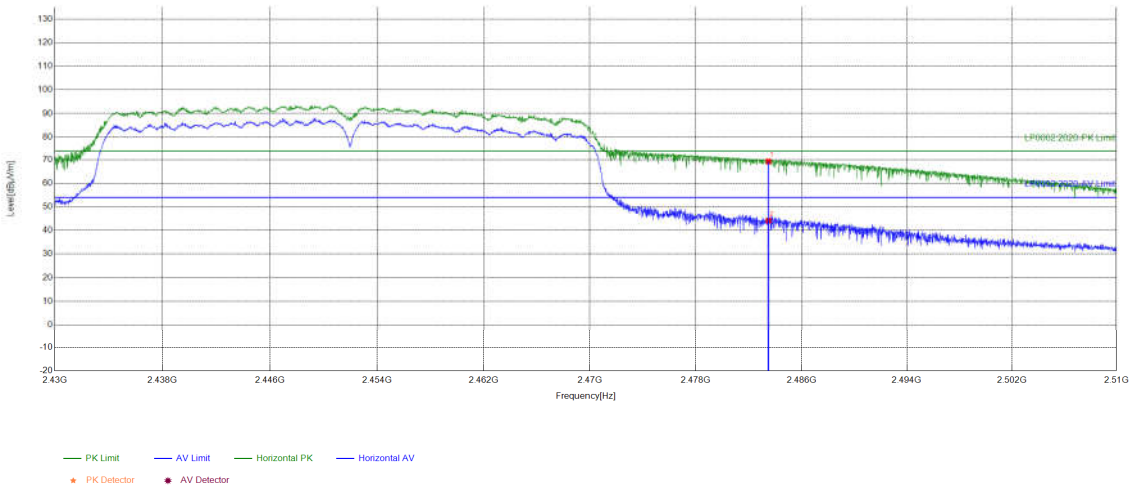
Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2390        | 5.77        | 46.86          | 52.63          | 74.00          | 21.37       | PASS   | Vertical | PK     |
| 2              | 2390        | 5.77        | 24.22          | 29.99          | 54.00          | 24.01       | PASS   | Vertical | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2452MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

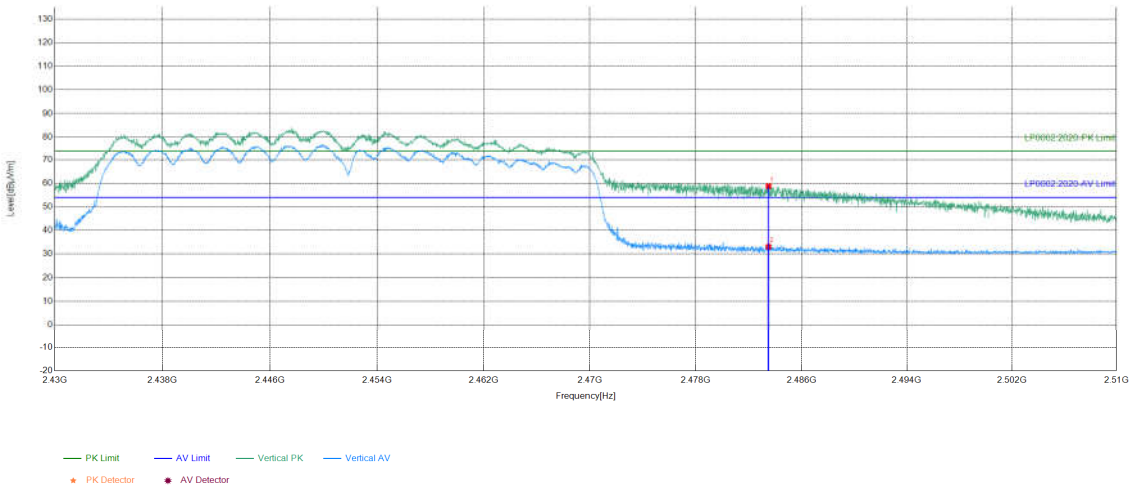
Test Graph



| Suspected List |             |             |                |                |                |             |        |            |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|------------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity   | Remark |
| 1              | 2483.5      | 6.57        | 62.71          | 69.28          | 74.00          | 4.72        | PASS   | Horizontal | PK     |
| 2              | 2483.5      | 6.57        | 37.59          | 44.16          | 54.00          | 9.84        | PASS   | Horizontal | AV     |

|               |                                |                |           |
|---------------|--------------------------------|----------------|-----------|
| EUT_Name      |                                | Test_Model     |           |
| Test_Mode     | 802.11 n(HT40)<br>Transmitting | Test_Frequency | 2452MHz   |
| Tset_Engineer | xuxuefeng                      | Test_Date      | 2023/7/15 |
| Remark        |                                |                |           |

Test Graph



| Suspected List |             |             |                |                |                |             |        |          |        |
|----------------|-------------|-------------|----------------|----------------|----------------|-------------|--------|----------|--------|
| NO             | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1              | 2483.5      | 6.57        | 52.15          | 58.72          | 74.00          | 15.28       | PASS   | Vertical | PK     |
| 2              | 2483.5      | 6.57        | 26.51          | 33.08          | 54.00          | 20.92       | PASS   | Vertical | AV     |

Note:  
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level =Receiver Reading - Correct Factor  
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

## 8 Appendix 2.4G WIFI

Refer to Appendix: 2.4G WIFI of EED32P80994901