# TEST REPORT

| | | |
|---|---|---|
| **Product** | : | Smart Projector |
| **Trade mark** | : | TOUMEI |
| **Model/Type reference** | : | S7, S1, S2, S3, S5, S6, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, M2, M3, M5, M6, M7, M8, M9 |
| **Serial Number** | : | N/A |
| **Report Number** | : | EED32R81552403 |
| **FCC ID** | : | 2BCE6-S7 |
| **Date of Issue** | : | Oct. 29, 2025 |
| **Test Standards** | : | 47 CFR Part 15 Subpart C |
| **Test result** | : | PASS |

Prepared for:

**SHENZHEN TOUMEI TECHNOLOGY CO., LTD**
**502 Building A, Jinke Industrial Park, No.310, Luhu Community Guanhu St., Longhua District, Shenzhen, China 518110**

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Date: Oct. 29, 2025

Check No.::3902260825

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# 2 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:
Model No.: S7, S1, S2, S3, S5, S6, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, M2, M3, M5, M6, M7, M8, M9
Only the model S7 was tested, Their electrical circuit design, layout, components used and internal wiring are identical,Only the appearance color is different, the customer model name is different, the sales platform is different.

# 3 General Information

## 3.1 Client Information

| | |
|---|---|
| Applicant: | SHENZHEN TOUMEI TECHNOLOGY CO., LTD |
| Address of Applicant: | 502 Building A, Jinke Industrial Park, No.310, Luhu Community Guanhu St., Longhua District, Shenzhen, China 518110 |
| Manufacturer: | SHENZHEN TOUMEI TECHNOLOGY CO., LTD |
| Address of Manufacturer: | 502 Building A, Jinke Industrial Park, No.310, Luhu Community Guanhu St., Longhua District, Shenzhen, China 518110 |
| Factory: | SHENZHEN TOUMEI TECHNOLOGY CO., LTD |
| Address of Factory: | 502 Building A, Jinke Industrial Park, No.310, Luhu Community Guanhu St., Longhua District, Shenzhen, China 518110 |

## 3.2 General Description of EUT

| | | |
|---|---|---|
| Product Name: | Smart Projector | |
| Model No.: | S7, S1, S2, S3, S5, S6, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, M2, M3, M5, M6, M7, M8, M9 | |
| Test Model No.: | S7 | |
| Trade mark: | TOUMEI | |
| Product Type: | ☐ Mobile ☐ Portable ☒ Fix Location | |
| Operation Frequency: | IEEE 802.11b/g/n(HT20)/ax(HE20)/be(EHT20): 2412MHz to 2462MHz<br>IEEE 802.11n(HT40)/ax(HE40)/be(EHT40): 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 | |
| Function | ☐ SISO ☒ 2x2 MIMO ☐ 3x3 MIMO ☐ 4x4MIMO | |
| Antenna Type: | FPC Antenna | |
| Antenna Gain: | 3.39 dBi | |
| Power Supply: | Adapter: | Input:100-240V, 50/60Hz, 1.5A;Output:19V, 3.42A |
| | Battery: | DC 14.6 V |
| Test Voltage: | AC 120V | |
| Sample Received Date: | Sep. 13, 2025 | |
| Sample tested Date: | Sep. 13, 2025 to Oct. 21, 2025 | |

| 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 |
| 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 |

## 3.3 Test Configuration

| **EUT Test Software Settings:** | |
|---|---|
| Test 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) | MCS0 |
| 802.11n(HT40) | MCS0 |
| 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, MCS0 for 802.11n(HT20), MCS0 for 802.11n(HT40). | |

## 3.4 Test Environment

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

## 3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1）Support equipment

| Description | Manufacturer | Model No. | Certification | Supplied by |
|---|---|---|---|---|
| / | / | / | / | / |

## 3.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164, Test Firm Registration No.: 260439

## 3.7 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% |

# 4 Equipment List

| RF test system | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. Date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| Spectrum Analyzer | Keysight | N9010A | MY54510339 | 12-05-2024 | 12-04-2025 |
| Signal Generator | Keysight | N5182B | MY53051549 | 11-30-2024 | 11-29-2025 |
| DC Power | Keysight | E3642A | MY56376072 | 11-30-2024 | 11-29-2025 |
| Communication test set | R&S | CMW500 | 169004 | 03-03-2025 | 03-02-2026 |
| RF control unit(power unit) | JS Tonscend | JS0806-2 | 22G8060592 | 07-20-2025 | 07-19-2026 |
| Wi-Fi 7GHz Band Extendder | JS Tonscend | TS-WF7U2 | 2206200002 | 05-12-2025 | 05-11-2026 |
| High-low temperature test chamber | Dong Guang Qin Zhuo | LK-80GA | QZ20150611879 | 11-30-2024 | 11-29-2025 |
| Temperature/ Humidity Indicator | biaozhi | HM10 | 1804186 | 05-26-2025 | 05-25-2026 |
| BT&WI-FI Automatic test software | JS Tonscend | JS1120-3 | V3.3.20 | --- | --- |
| Spectrum Analyzer | R&S | FSV3044 | 101509 | 02-14-2025 | 02-13-2026 |

| Conducted disturbance Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| Receiver | R&S | ESCI | 100435 | 04-08-2025 | 04-07-2026 |
| Temperature/ Humidity Indicator | Defu | TH128 | / | 03-31-2025 | 03-30-2026 |
| LISN | R&S | ENV216 | 100098 | 09-19-2024<br>09-13-2025 | 09-18-2025<br>09-12-2026 |
| Barometer | changchun | DYM3 | 1188 | --- | --- |

| | | | | | |
|---|---|---|---|---|---|
| Test software | Fara | EZ-EMC | EMC-CON 3A1.1 | --- | --- |
| Capacitive voltage probe | Schwarzbeck | CVP 9222C | 00124 | 06-07-2025 | 06-06-2026 |
| ISN | TESEQ | ISN T800 | 30297 | 12-05-2024 | 12-04-2025 |

| 3M Semi-anechoic Chamber (2)- Radiated disturbance Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | --- | 01/13/2024 | 01/12/2027 |
| Receiver | R&S | ESCI7 | 100938-003 | 09/03/2025 | 09/02/2026 |
| Spectrum Analyzer | R&S | FSV40 | 101200 | 08/11/2025 | 08/10/2026 |
| TRILOG Broadband Antenna | schwarzbeck | VULB 9163 | 9163-618 | 05/14/2025 | 05/13/2026 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04/07/2025 | 04/06/2026 |
| Microwave Preamplifier | Tonscend | EMC051845SE | 980380 | 12/05/2024 | 12/04/2025 |
| Horn Antenna | A.H.SYSTEMS | SAS-574 | 374 | 07/02/2023 | 07/01/2026 |
| Horn Antenna | ETS-LINGREN | BBHA 9120D | 9120D-1869 | 04/07/2025 | 04/06/2026 |
| Preamplifier | Agilent | 11909A | 12-1 | 03/03/2025 | 03/02/2026 |
| Preamplifier | CD | PAP-1840-60 | 6041.6042 | 05/26/2025 | 05/25/2026 |
| Test software | Fara | EZ-EMC | EMEC-3A1-Pre | --- | --- |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01/13/2024 | 01/12/2027 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01/13/2024 | 01/12/2027 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01/13/2024 | 01/12/2027 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01/13/2024 | 01/12/2027 |

| 3M full-anechoic Chamber | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. Date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| Fully Anechoic Chamber | TDK | FAC-3 | --- | 01-09-2024 | 01-08-2027 |
| Receiver | Keysight | N9038A | MY57290136 | 01-04-2025 | 01-03-2026 |
| Spectrum Analyzer | Keysight | N9020B | MY57111112 | 01-14-2025 | 01-13-2026 |
| Spectrum Analyzer | Keysight | N9030B | MY57140871 | 01-14-2025 | 01-13-2026 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-1148 | 04-12-2025 | 04-11-2026 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-832 | 04-12-2025 | 04-11-2026 |
| Horn Antenna | ETS-LINDGREN | 3117 | 57407 | 06-29-2025 | 06-28-2026 |
| Preamplifier | EMCI | EMC001330 | 980563 | 03-03-2025 | 03-02-2026 |
| Preamplifier | Tonscend | TAP-011858 | AP21B806112 | 07-07-2025 | 07-06-2026 |
| Preamplifier | Tonscend | EMC051845SE | 980380 | 12-05-2024 | 12-04-2025 |
| Communication test set | R&S | CMW500 | 102898 | 01-04-2025 | 01-03-2026 |
| Temperature/ Humidity Indicator | biaozhi | GM1360 | EE1186631 | 03-31-2025 | 03-30-2026 |
| RSE Automatic test software | JS Tonscend | JS36-RSE | V4.0.0.0 | --- | --- |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0001 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0002 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0003 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | SFT205-NMSM-2.50M | 393495-0001 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | EMC104-NMNM-1000 | SN160710 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | SFT205-NMSM-3.00M | 394813-0001 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | SFT205-NMNM-1.50M | 381964-0001 | 01-09-2024 | 01-08-2027 |
| Cable line | Times | SFT205-NMSM-7.00M | 394815-0001 | 01-09-2024 | 01-08-2027 |

# 5 Test results and Measurement Data

## 5.1 Antenna Requirement

| **Standard requirement:** | 47 CFR Part 15C Section 15.203 /247(c) |
|---|---|

15.203 requirement:
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.
15.247(b) (4) requirement:
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.

| **EUT Antenna:** | Please see Internal photos |
|---|---|

The antenna is integral antenna. The best case gain of the antenna1 is 3.39dBi, The best case gain of the antenna2 is 3.39dBi.

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

☐ (1) If any transmit signals are correlated with each other,

Directional gain = GANT + 10 log(NANT) dBi

☒ (2) If any transmit signals are correlated with each other,

Directional gain = GANT

| Ant.1 | Ant.1 | DG |
|---|---|---|
| 3.39 | 3.39 | 3.39 |

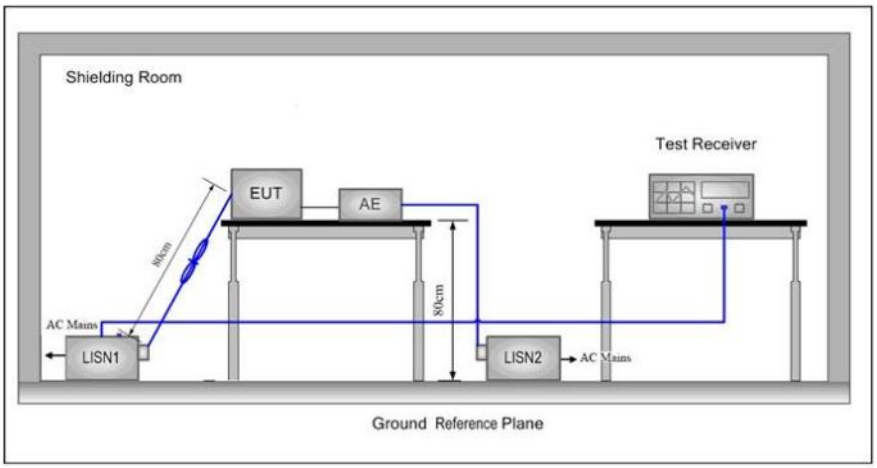
## 5.2 AC Power Line Conducted Emissions

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.207 |
| Test Method: | ANSI C63.10: 2020 |
| 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:

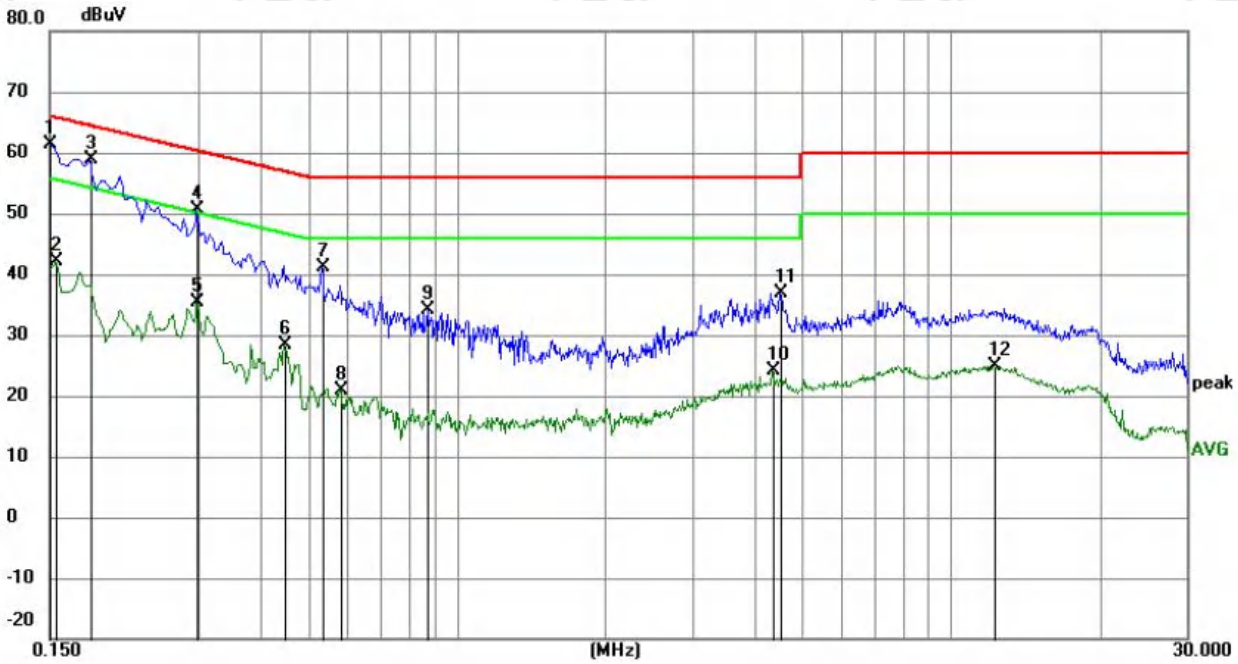
1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second 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.
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.
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.
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: 2020 on conducted measurement.

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**

Live line:

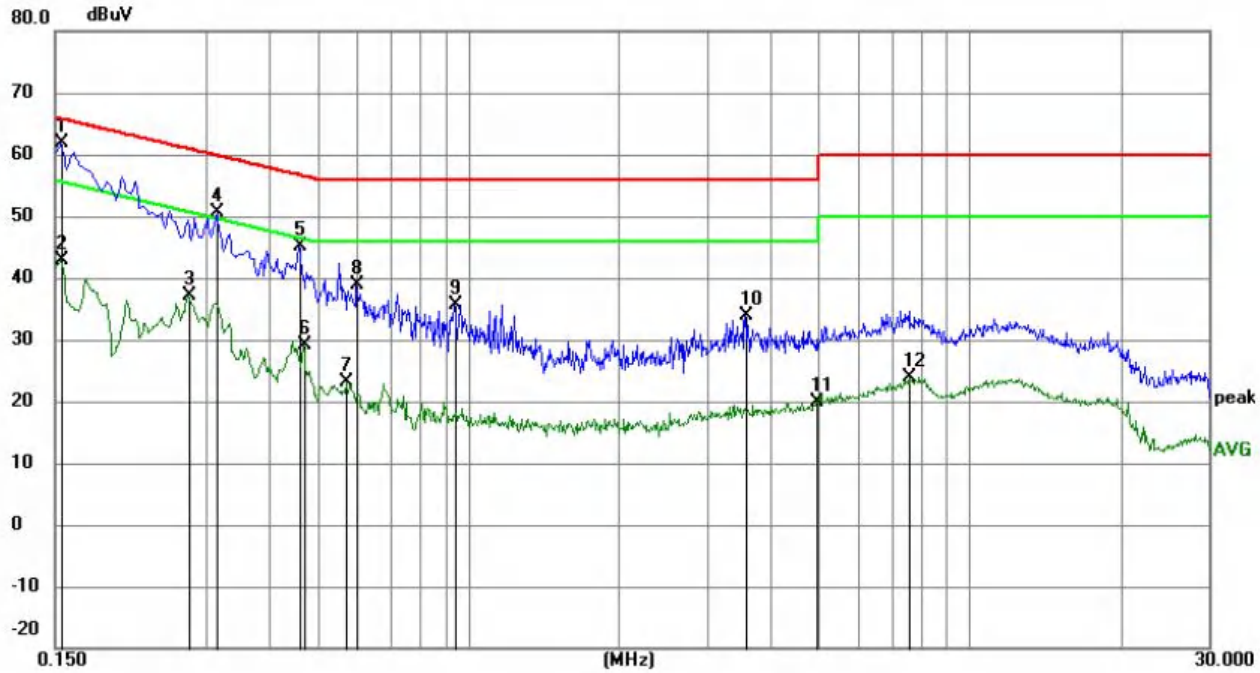



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1500 | 51.12 | 10.28 | 61.40 | 66.00 | -4.60 | QP | |
| 2 | | 0.1545 | 31.93 | 10.28 | 42.21 | 55.75 | -13.54 | AVG | |
| 3 | | 0.1815 | 48.62 | 10.24 | 58.86 | 64.42 | -5.56 | QP | |
| 4 | | 0.2985 | 40.51 | 10.13 | 50.64 | 60.28 | -9.64 | QP | |
| 5 | | 0.2985 | 25.27 | 10.13 | 35.40 | 50.28 | -14.88 | AVG | |
| 6 | | 0.4470 | 18.32 | 10.09 | 28.41 | 46.93 | -18.52 | AVG | |
| 7 | | 0.5325 | 30.93 | 10.09 | 41.02 | 56.00 | -14.98 | QP | |
| 8 | | 0.5820 | 10.87 | 10.10 | 20.97 | 46.00 | -25.03 | AVG | |
| 9 | | 0.8745 | 24.01 | 10.17 | 34.18 | 56.00 | -21.82 | QP | |
| 10 | | 4.3439 | 14.08 | 10.08 | 24.16 | 46.00 | -21.84 | AVG | |
| 11 | | 4.5015 | 26.92 | 10.08 | 37.00 | 56.00 | -19.00 | QP | |
| 12 | | 12.2145 | 15.09 | 9.91 | 25.00 | 50.00 | -25.00 | 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. Margin=Measurement-Limit.
4. Measurement=Reading Level+Correct Factor.
5. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit.
6. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

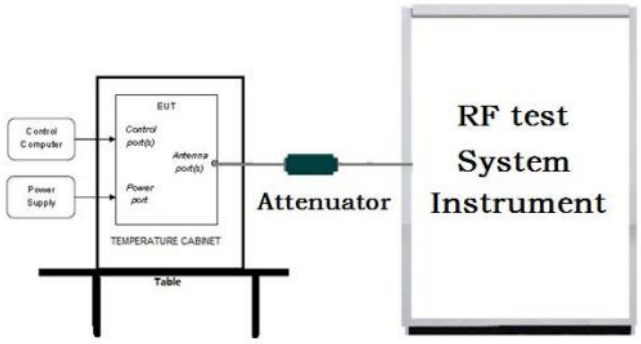



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1545 | 51.51 | 10.28 | 61.79 | 65.75 | -3.96 | QP | |
| 2 | | 0.1545 | 32.62 | 10.28 | 42.90 | 55.75 | -12.85 | AVG | |
| 3 | | 0.2760 | 26.95 | 10.15 | 37.10 | 50.94 | -13.84 | AVG | |
| 4 | | 0.3165 | 40.48 | 10.12 | 50.60 | 59.80 | -9.20 | QP | |
| 5 | | 0.4605 | 35.15 | 10.08 | 45.23 | 56.68 | -11.45 | QP | |
| 6 | | 0.4695 | 19.14 | 10.08 | 29.22 | 46.52 | -17.30 | AVG | |
| 7 | | 0.5730 | 12.95 | 10.09 | 23.04 | 46.00 | -22.96 | AVG | |
| 8 | | 0.6000 | 28.75 | 10.10 | 38.85 | 56.00 | -17.15 | QP | |
| 9 | | 0.9420 | 25.56 | 10.17 | 35.73 | 56.00 | -20.27 | QP | |
| 10 | | 3.5700 | 23.89 | 10.11 | 34.00 | 56.00 | -22.00 | QP | |
| 11 | | 4.9740 | 9.91 | 10.06 | 19.97 | 46.00 | -26.03 | AVG | |
| 12 | | 7.5750 | 13.99 | 10.01 | 24.00 | 50.00 | -26.00 | AVG | |

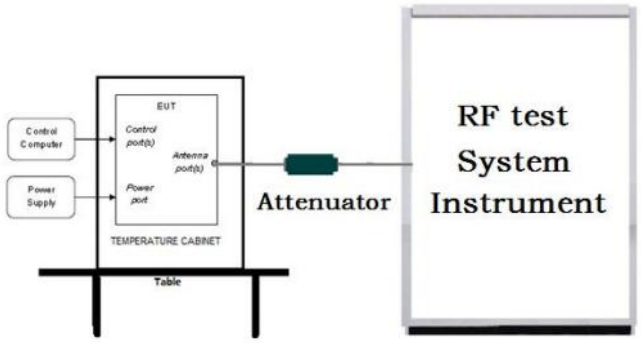
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. Margin=Measurement-Limit.
4. Measurement=Reading Level+Correct Factor.
5. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit.
6. If the Peak value under Average limit, the Average value is not recorded in the report.

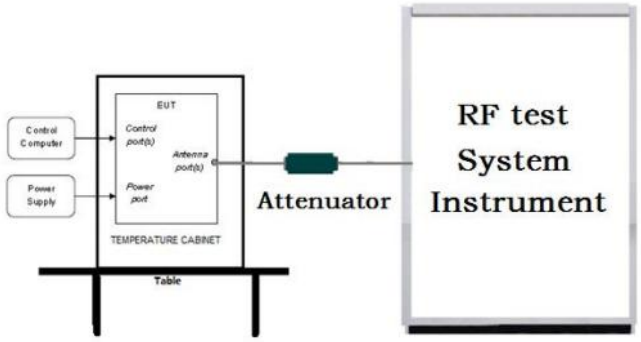
## 5.3 Maximum Conducted Output Power

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.10: 2020 |
| 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.<br>2. Method AVGPM-G Average power measurement<br>Method AVGPM-G is a measurement using a gated RF average power meter. Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.<br>3.For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmiter Output v02r01.<br>Method (a): Measure and sum the spectra across the outputs.The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum. |
| Limit: | 30dBm |
| Test Mode: | Refer to clause 5.3 |
| Test Results: | Refer to Appendix A |

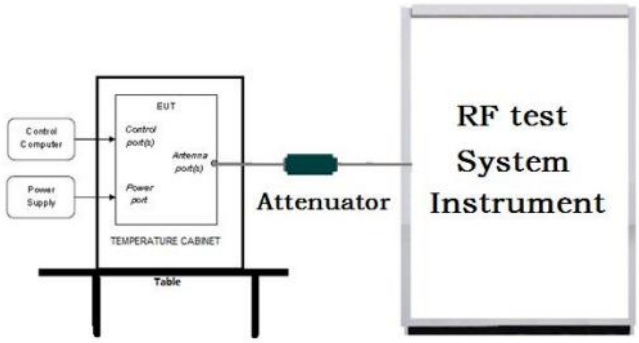
## 5.4 DTS Bandwidth

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.10: 2020 |
| Test Setup: |  <br>Remark: Offset=Cable loss+ attenuation factor. |
| Test Procedure: | a) Set RBW = 100 kHz.<br>b) Set the VBW ⩾[3 × RBW].<br>c) Detector = peak.<br>d) Trace mode = max hold.<br>e) Sweep = auto couple.<br>f) Allow the trace to stabilize.<br>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. |
| Limit: | ≥ 500 kHz |
| Test Mode: | Refer to clause 5.3 |
| Test Results: | Refer to Appendix A |

## 5.5 Maximum Power Spectral Density

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (e) |
| Test Method: | ANSI C63.10: 2020 |
| Test Setup: |  <br>Remark: Offset=Cable loss+ attenuation factor. |
| Test Procedure: | a) Set analyzer center frequency to DTS channel center frequency.<br>b) Set the span to 1.5 times the DTS bandwidth.<br>c) Set the RBW to 3 kHz ＜ RBW ＜ 100 kHz.<br>d) Set the VBW ＞ [3 × RBW].<br>e) Detector = peak.<br>f) Sweep time = auto couple.<br>g) Trace mode = max hold.<br>h) Allow trace to fully stabilize.<br>i) Use the peak marker function to determine the maximum amplitude level within the RBW.<br>j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.<br>K) For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmiter Output v02r01.<br>Method (a): Measure and sum the spectra across the outputs.The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum. |
| Limit: | ≤8.00dBm/3kHz |
| Test Mode: | Refer to clause 5.3 |
| Test Results: | Refer to Appendix A |

## 5.6 Band Edge Measurements and Conducted Spurious Emission

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) |
| Test Method: | ANSI C63.10: 2020 |
| Test Setup: |  <br>Remark: Offset=Cable loss+ attenuation factor. |
| Test Procedure: | a) Set RBW = 100KHz.<br>b) Set VBW = 300KHz.<br>c) Sweep time = auto couple.<br>d) Detector = peak.<br>e) Trace mode = max hold.<br>f) Allow trace to fully stabilize.<br>g) Use peak marker function to determine the peak amplitude level. |
| 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 A |

## 5.7 Radiated Spurious Emission & Restricted bands

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 |
| Test Method: | ANSI C63.10: 2020 |
| 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 (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement 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 Setup: | |
|---|---|

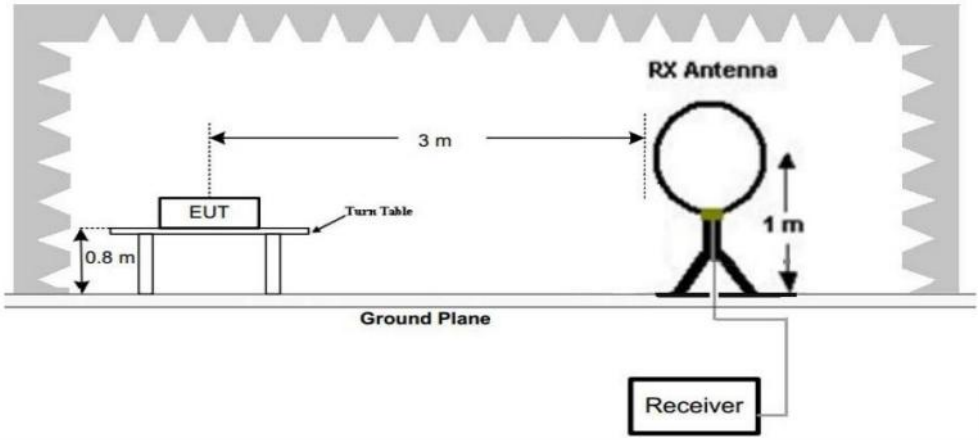



Figure 1. Below 30MHz

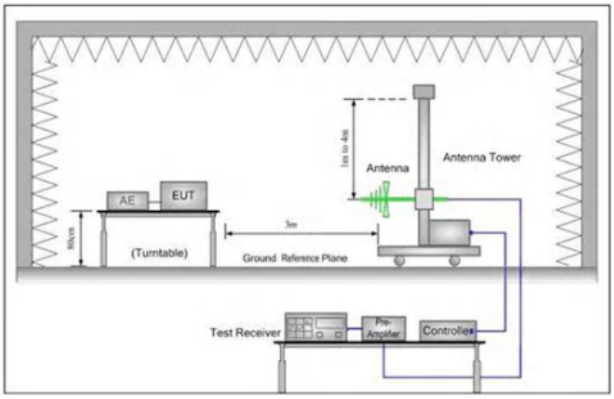



Figure 2. 30MHz to 1GHz

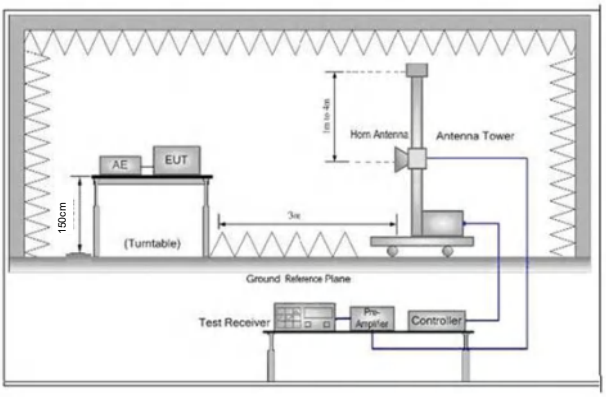



Figure 3. Above 1 GHz

| Test Procedure: | a. 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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.<br>Note: For the radiated emission test above 1GHz:<br>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.<br>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.<br>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both |
|---|---|

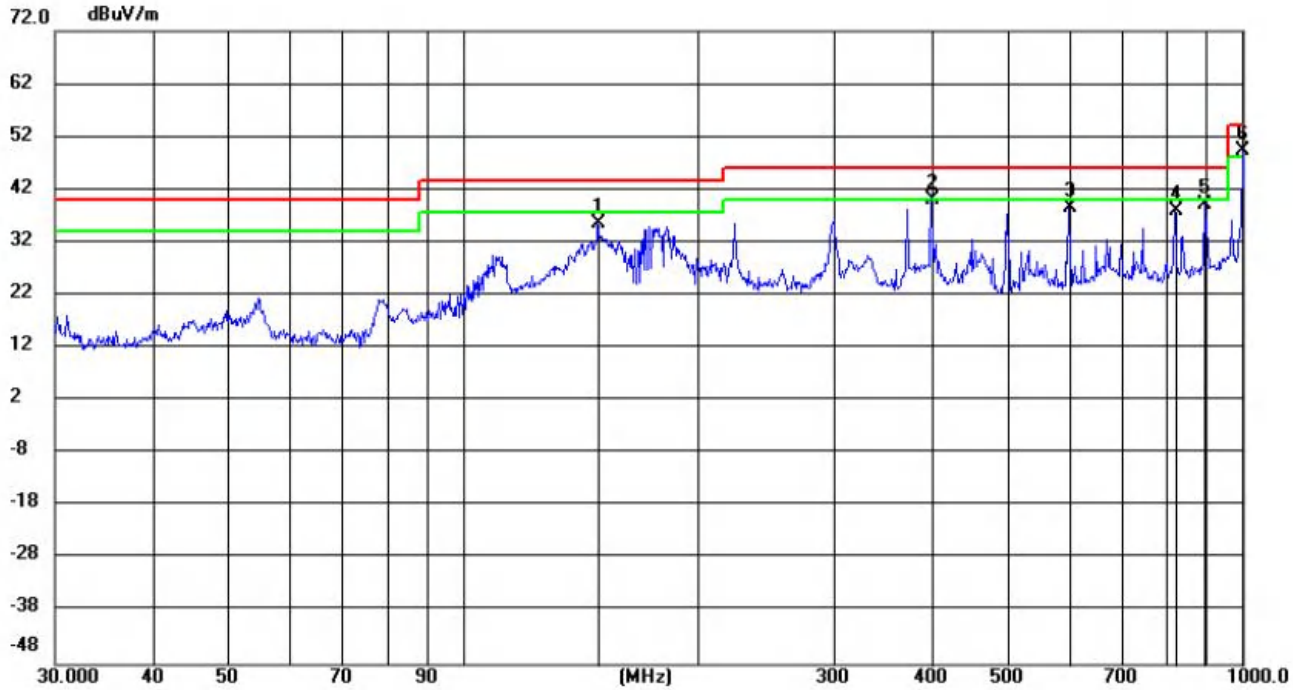
| | |
|---|---|
| | horizontal and vertical polarizations of the antenna are set to make the measurement.<br>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.<br>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.<br>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.<br>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)<br>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.<br>i. Repeat above procedures until all frequencies measured was complete. |
| 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.

**Test Graph**

**Horizontal:**

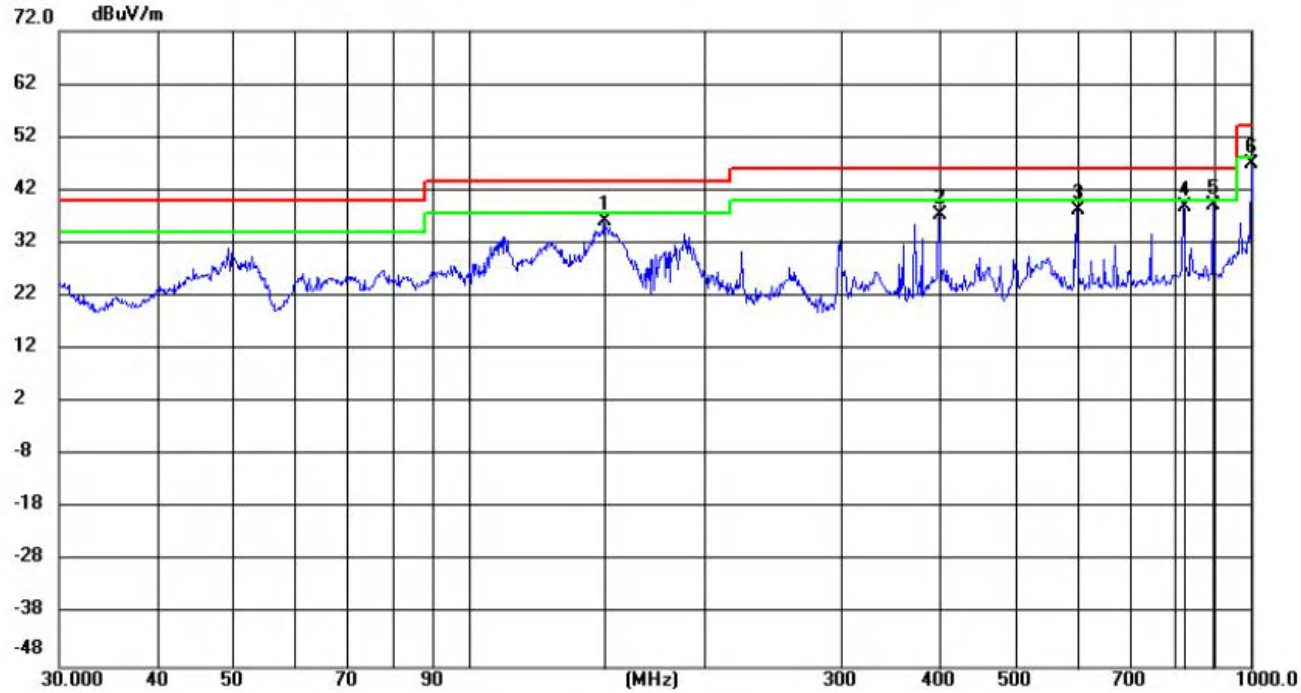



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 149.2761 | 25.37 | 10.25 | 35.62 | 43.50 | -7.88 | QP | 200 | 213 | |
| 2 | ! | 400.0108 | 20.52 | 19.49 | 40.01 | 46.00 | -5.99 | QP | 100 | 74 | |
| 3 | | 600.0571 | 15.52 | 22.97 | 38.49 | 46.00 | -7.51 | QP | 200 | 354 | |
| 4 | | 820.4148 | 12.67 | 25.21 | 37.88 | 46.00 | -8.12 | QP | 100 | 91 | |
| 5 | | 895.1112 | 12.45 | 26.84 | 39.29 | 46.00 | -6.71 | QP | 200 | 354 | |
| 6 | * | 1000.0000 | 21.91 | 27.52 | 49.43 | 54.00 | -4.57 | QP | 100 | 161 | |

Remark:

1. Margin=Measurement(Level)-Limit.
2. Measurement(Level)=Reading Level+Correct Factor.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

**Vertical:**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 149.1192 | 25.75 | 10.26 | 36.01 | 43.50 | -7.49 | QP | 100 | 170 | |
| 2 | | 400.0109 | 17.75 | 19.49 | 37.24 | 46.00 | -8.76 | QP | 100 | 354 | |
| 3 | | 600.0573 | 15.29 | 22.97 | 38.26 | 46.00 | -7.74 | QP | 100 | 178 | |
| 4 | | 820.4148 | 13.79 | 25.21 | 39.00 | 46.00 | -7.00 | QP | 100 | 354 | |
| 5 | * | 895.1113 | 12.26 | 26.84 | 39.10 | 46.00 | -6.90 | QP | 100 | 354 | |
| 6 | | 1000.0000 | 19.43 | 27.52 | 46.95 | 54.00 | -7.05 | QP | 200 | 138 | |

Remark:

1. Margin=Measurement(Level)-Limit.
2. Measurement(Level)=Reading Level+Correct Factor.
3. In the test results, an asterisk (*) indicates Maximum Data, a cross (X) indicates over Limit, an exclamation mark (!) indicates over -6dB margin Limit.

## Radiated Spurious Emission above 1GHz:

Remark: Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 b mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; only the worst case of was recorded in the report.

| 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 | 1375.4917 | 12.73 | 36.10 | 48.83 | 74.00 | 25.17 | PASS | H | PK |
| 2 | 1891.1261 | 14.39 | 36.85 | 51.24 | 74.00 | 22.76 | PASS | H | PK |
| 3 | 3674.0949 | -12.82 | 52.45 | 39.63 | 74.00 | 34.37 | PASS | H | PK |
| 4 | 4824.0216 | -8.55 | 55.21 | 46.66 | 74.00 | 27.34 | PASS | H | PK |
| 5 | 6432.2288 | -4.29 | 54.71 | 50.42 | 74.00 | 23.58 | PASS | H | PK |
| 6 | 9812.4542 | 1.14 | 44.85 | 45.99 | 74.00 | 28.01 | PASS | H | PK |
| 7 | 1484.299 | 13.18 | 37.30 | 50.48 | 74.00 | 23.52 | PASS | V | PK |
| 8 | 1963.1309 | 14.61 | 36.76 | 51.37 | 74.00 | 22.63 | PASS | V | PK |
| 9 | 3949.0633 | -11.92 | 54.32 | 42.40 | 74.00 | 31.60 | PASS | V | PK |
| 10 | 4824.0216 | -8.55 | 55.15 | 46.60 | 74.00 | 27.40 | PASS | V | PK |
| 11 | 6432.2288 | -4.29 | 55.33 | 51.04 | 74.00 | 22.96 | PASS | V | PK |
| 12 | 10923.3782 | 2.18 | 43.98 | 46.16 | 74.00 | 27.84 | 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 | 1481.0987 | 13.10 | 36.81 | 49.91 | 74.00 | 24.09 | PASS | H | PK |
| 2 | 2016.7344 | 14.61 | 36.71 | 51.32 | 74.00 | 22.68 | PASS | H | PK |
| 3 | 3516.1344 | -13.86 | 53.94 | 40.08 | 74.00 | 33.92 | PASS | H | PK |
| 4 | 4924.1283 | -8.16 | 57.62 | 49.46 | 74.00 | 24.54 | PASS | H | PK |
| 5 | 7385.8424 | -3.16 | 52.57 | 49.41 | 74.00 | 24.59 | PASS | H | PK |
| 6 | 9848.2065 | 1.37 | 49.32 | 50.69 | 74.00 | 23.31 | PASS | H | PK |
| 7 | 1430.6954 | 12.93 | 36.41 | 49.34 | 74.00 | 24.66 | PASS | V | PK |
| 8 | 1924.0616 | 14.70 | 36.87 | 51.57 | 74.00 | 22.43 | PASS | V | PK |
| 9 | 4924.1283 | -8.16 | 55.28 | 47.12 | 74.00 | 26.88 | PASS | V | PK |
| 10 | 6565.4877 | -3.93 | 54.54 | 50.61 | 74.00 | 23.39 | PASS | V | PK |
| 11 | 7385.1923 | -3.15 | 52.74 | 49.59 | 74.00 | 24.41 | PASS | V | PK |
| 12 | 9848.2065 | 1.37 | 46.38 | 47.75 | 74.00 | 26.25 | PASS | V | PK |

| Mode: | | | 802.11 n(HT40) Transmitting | | | Channel: | | 2422MHz | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1462.8309 | 13.03 | 36.70 | 49.73 | 74.00 | 24.27 | PASS | H | PK |
| 2 | 1838.9893 | 14.32 | 36.93 | 51.25 | 74.00 | 22.75 | PASS | H | PK |
| 3 | 4290.336 | -10.19 | 50.47 | 40.28 | 74.00 | 33.72 | PASS | H | PK |
| 4 | 5414.261 | -6.64 | 48.61 | 41.97 | 74.00 | 32.03 | PASS | H | PK |
| 5 | 6458.8806 | -4.30 | 50.77 | 46.47 | 74.00 | 27.53 | PASS | H | PK |
| 6 | 9687.6458 | 1.24 | 44.95 | 46.19 | 74.00 | 27.81 | PASS | H | PK |
| 7 | 1433.4956 | 13.00 | 38.18 | 51.18 | 74.00 | 22.82 | PASS | V | PK |
| 8 | 1940.7294 | 14.79 | 36.33 | 51.12 | 74.00 | 22.88 | PASS | V | PK |
| 9 | 3880.8087 | -12.01 | 55.22 | 43.21 | 74.00 | 30.79 | PASS | V | PK |
| 10 | 4905.9271 | -8.25 | 49.89 | 41.64 | 74.00 | 32.36 | PASS | V | PK |
| 11 | 6458.8806 | -4.30 | 53.80 | 49.50 | 74.00 | 24.50 | PASS | V | PK |
| 12 | 9282.0188 | 0.74 | 44.62 | 45.36 | 74.00 | 28.64 | PASS | V | PK |

| Mode: | | | 802.11 n(HT40) Transmitting | | | Channel: | | 2452MHz | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1596.9731 | 13.72 | 37.04 | 50.76 | 74.00 | 23.24 | PASS | H | PK |
| 2 | 2095.4064 | 15.06 | 36.33 | 51.39 | 74.00 | 22.61 | PASS | H | PK |
| 3 | 4308.5372 | -10.10 | 51.43 | 41.33 | 74.00 | 32.67 | PASS | H | PK |
| 4 | 6538.8359 | -4.06 | 51.14 | 47.08 | 74.00 | 26.92 | PASS | H | PK |
| 5 | 9276.8185 | 0.72 | 44.41 | 45.13 | 74.00 | 28.87 | PASS | H | PK |
| 6 | 11287.4025 | 2.43 | 44.97 | 47.40 | 74.00 | 26.60 | PASS | H | PK |
| 7 | 1446.8298 | 13.11 | 36.61 | 49.72 | 74.00 | 24.28 | PASS | V | PK |
| 8 | 2131.6754 | 15.34 | 36.54 | 51.88 | 74.00 | 22.12 | PASS | V | PK |
| 9 | 4783.7189 | -8.62 | 53.22 | 44.60 | 74.00 | 29.40 | PASS | V | PK |
| 10 | 6538.8359 | -4.06 | 54.33 | 50.27 | 74.00 | 23.73 | PASS | V | PK |
| 11 | 10196.6298 | 1.52 | 44.38 | 45.90 | 74.00 | 28.10 | PASS | V | PK |

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

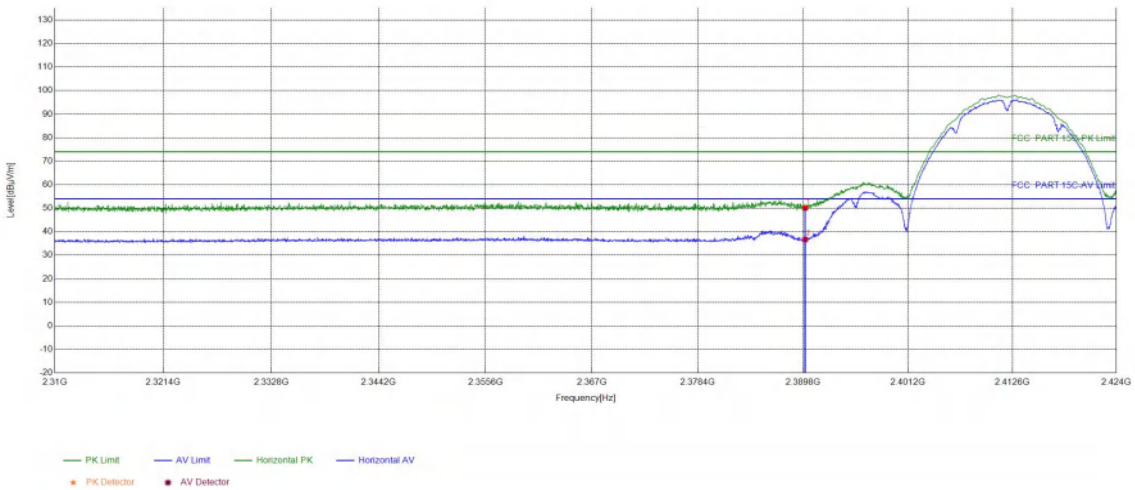
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified 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:**

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2412Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/09 |
| Remark | 23.66°C60.82%\ | | |

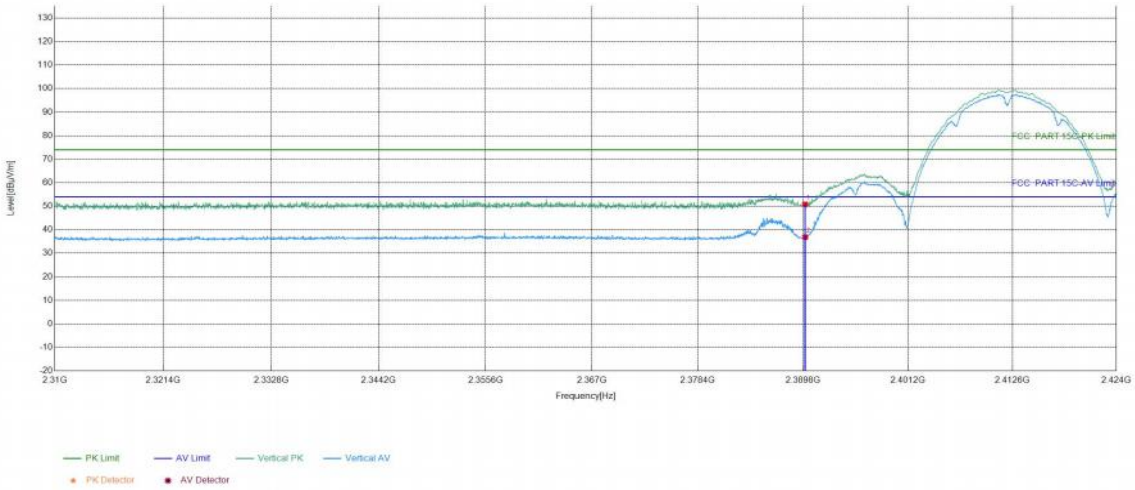
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 34.14 | 50.10 | 74.00 | 23.90 | PASS | Horizontal | PK |
| 2 | 2390 | 15.96 | 20.72 | 36.68 | 54.00 | 17.32 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2412Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/09 |
| Remark | 23.66°C60.82%\ | | |

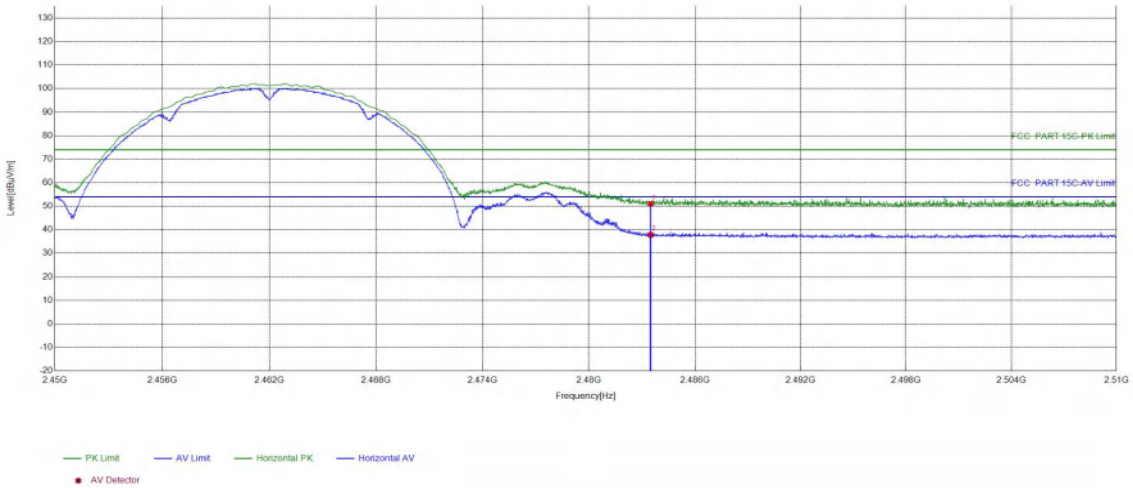
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 34.84 | 50.80 | 74.00 | 23.20 | PASS | Vertical | PK |
| 2 | 2390 | 15.96 | 20.91 | 36.87 | 54.00 | 17.13 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2462Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

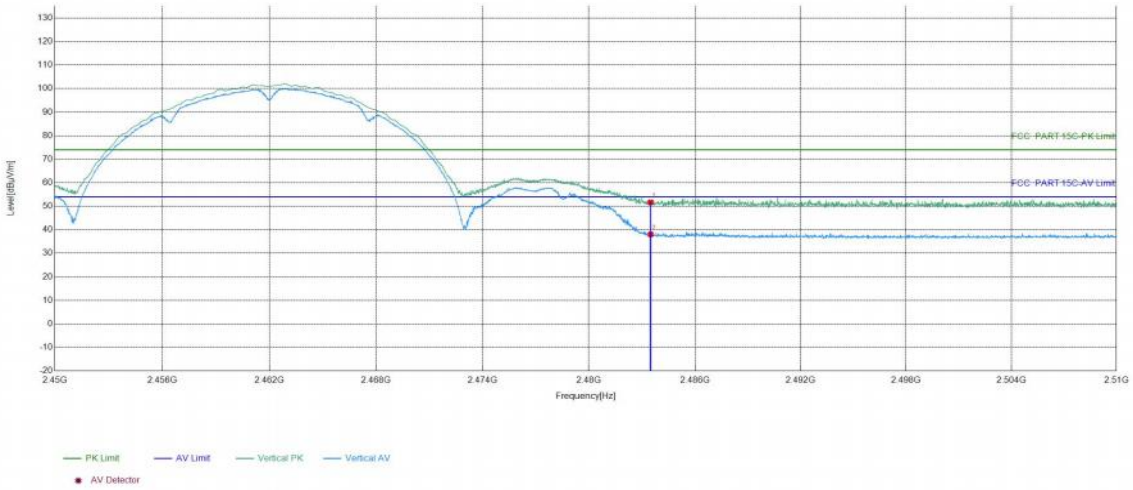
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 34.76 | 51.05 | 74.00 | 22.95 | PASS | Horizontal | PK |
| 2 | 2483.5 | 16.29 | 21.48 | 37.77 | 54.00 | 16.23 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 b Transmitting | Test_Frequency | 2462Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

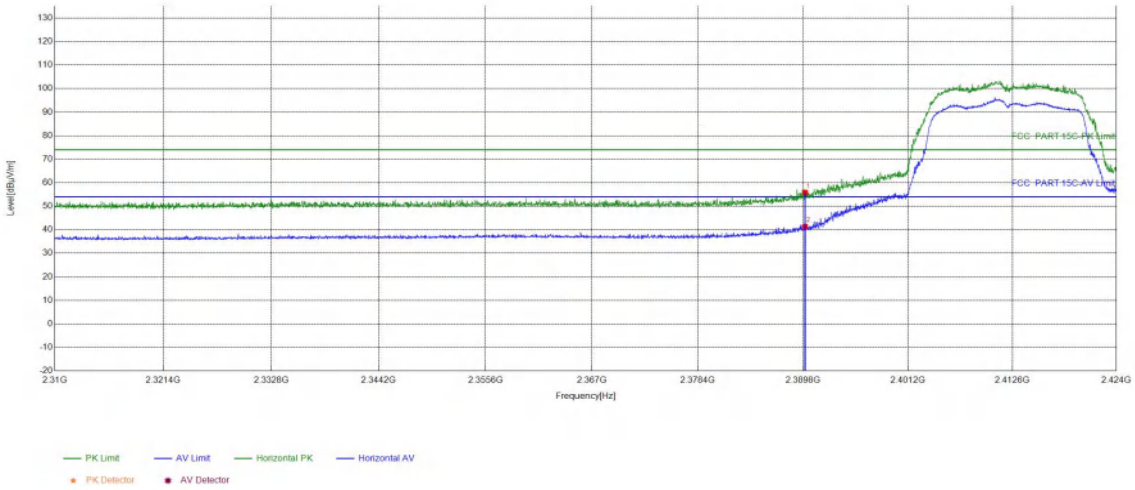
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 35.37 | 51.66 | 74.00 | 22.34 | PASS | Vertical | PK |
| 2 | 2483.5 | 16.29 | 21.72 | 38.01 | 54.00 | 15.99 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 g Transmitting | Test_Frequency | 2412Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

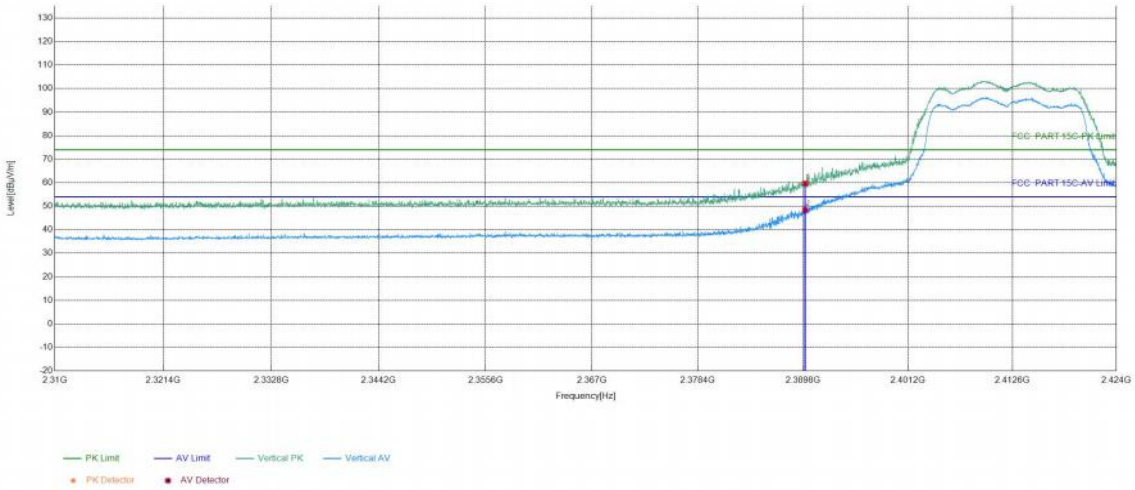
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 39.83 | 55.79 | 74.00 | 18.21 | PASS | Horizontal | PK |
| 2 | 2390 | 15.96 | 25.37 | 41.33 | 54.00 | 12.67 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 g Transmitting | Test_Frequency | 2412Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

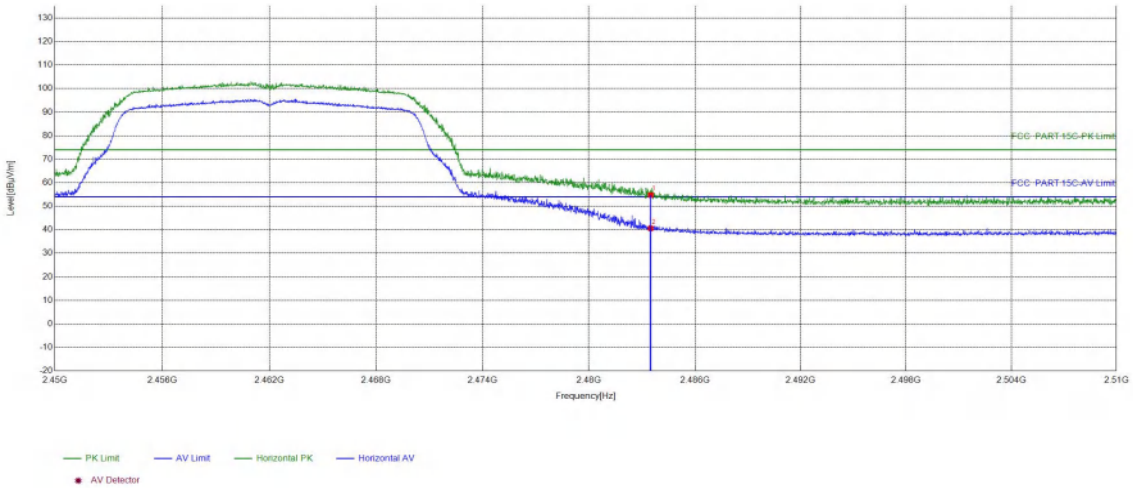
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 43.75 | 59.71 | 74.00 | 14.29 | PASS | Vertical | PK |
| 2 | 2390 | 15.96 | 32.41 | 48.37 | 54.00 | 5.63 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 g Transmitting | Test_Frequency | 2462Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

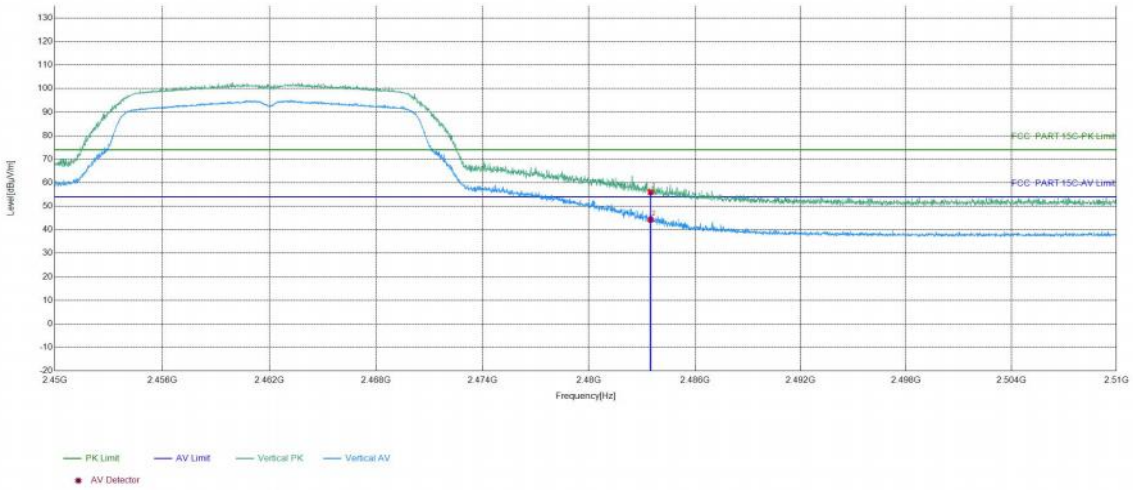
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 38.49 | 54.78 | 74.00 | 19.22 | PASS | Horizontal | PK |
| 2 | 2483.5 | 16.29 | 24.30 | 40.59 | 54.00 | 13.41 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 g Transmitting | Test_Frequency | 2462Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

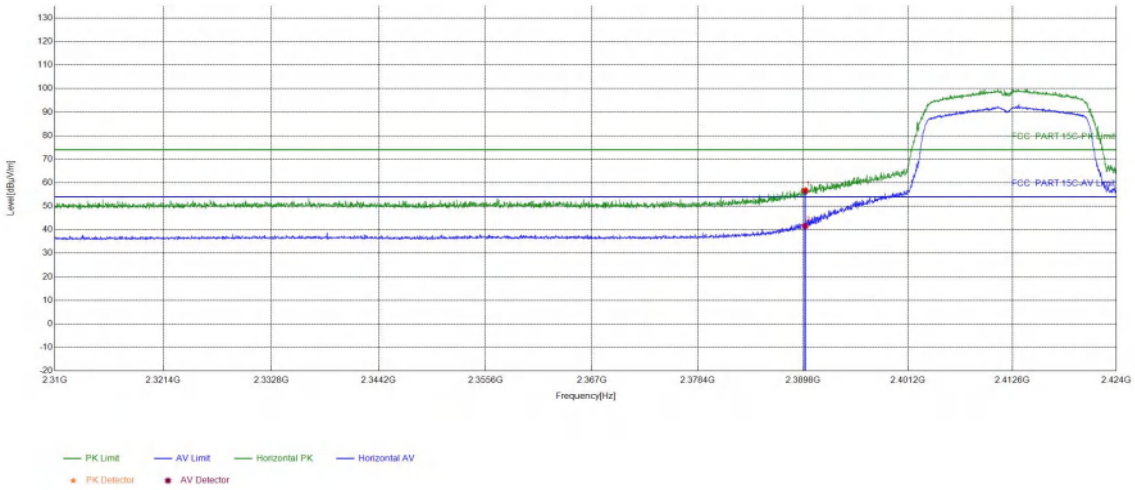
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 39.63 | 55.92 | 74.00 | 18.08 | PASS | Vertical | PK |
| 2 | 2483.5 | 16.29 | 27.96 | 44.25 | 54.00 | 9.75 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT20) Transmitting | Test_Frequency | 2412Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

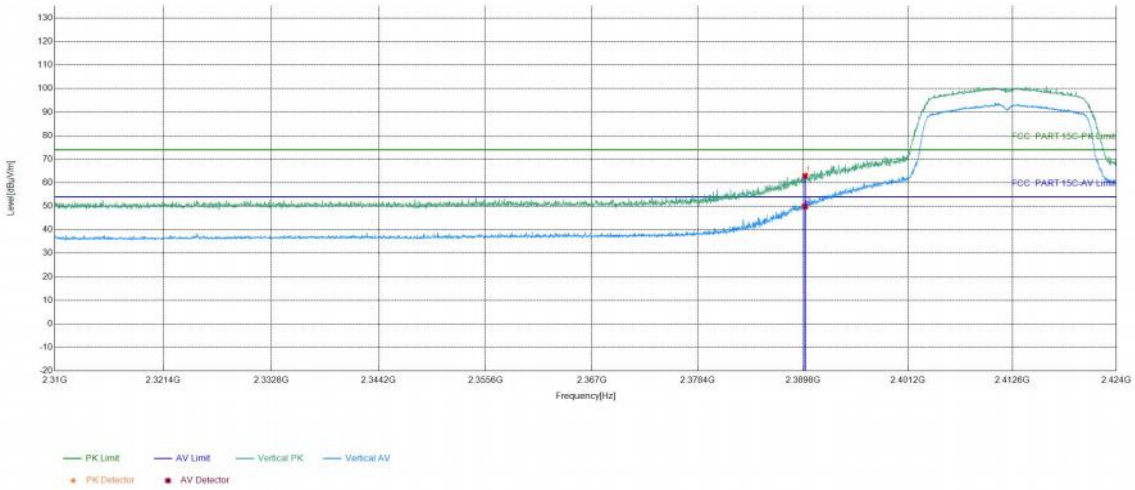
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 40.61 | 56.57 | 74.00 | 17.43 | PASS | Horizontal | PK |
| 2 | 2390 | 15.96 | 25.64 | 41.60 | 54.00 | 12.40 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT20) Transmitting | Test_Frequency | 2412Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

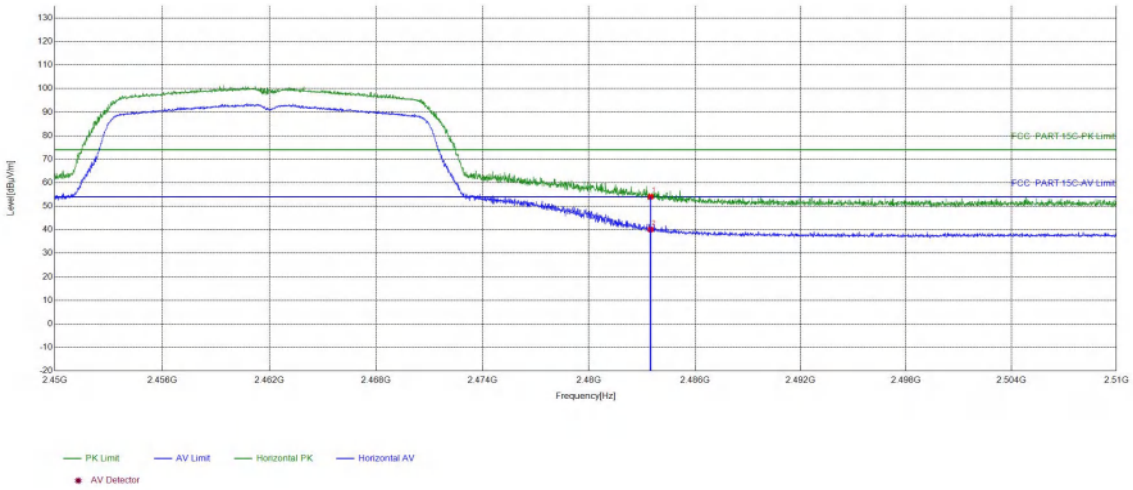
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 46.94 | 62.90 | 74.00 | 11.10 | PASS | Vertical | PK |
| 2 | 2390 | 15.96 | 33.88 | 49.84 | 54.00 | 4.16 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT20) Transmitting | Test_Frequency | 2462Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

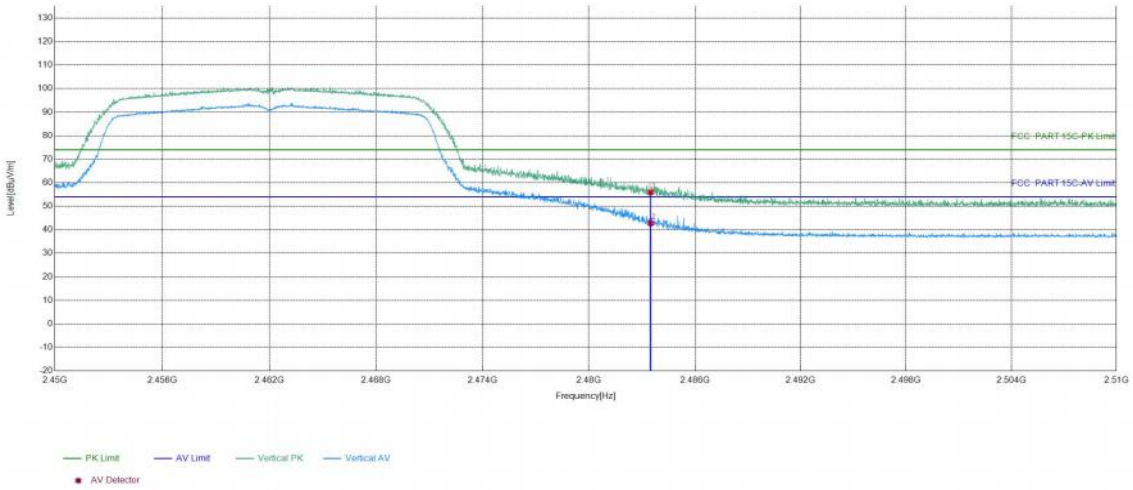
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 37.76 | 54.05 | 74.00 | 19.95 | PASS | Horizontal | PK |
| 2 | 2483.5 | 16.29 | 23.81 | 40.10 | 54.00 | 13.90 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT20) Transmitting | Test_Frequency | 2462Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

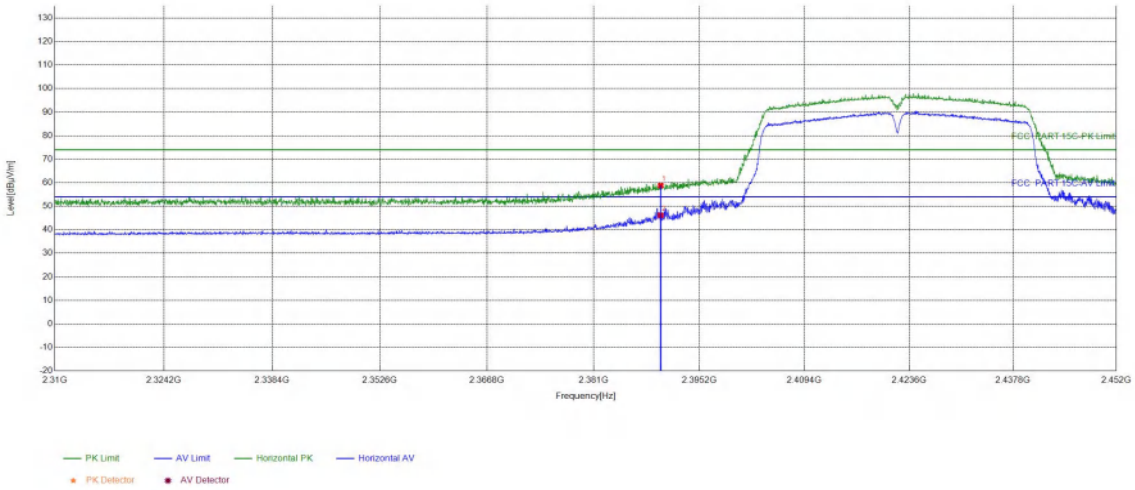
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 39.59 | 55.88 | 74.00 | 18.12 | PASS | Vertical | PK |
| 2 | 2483.5 | 16.29 | 26.42 | 42.71 | 54.00 | 11.29 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2422Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

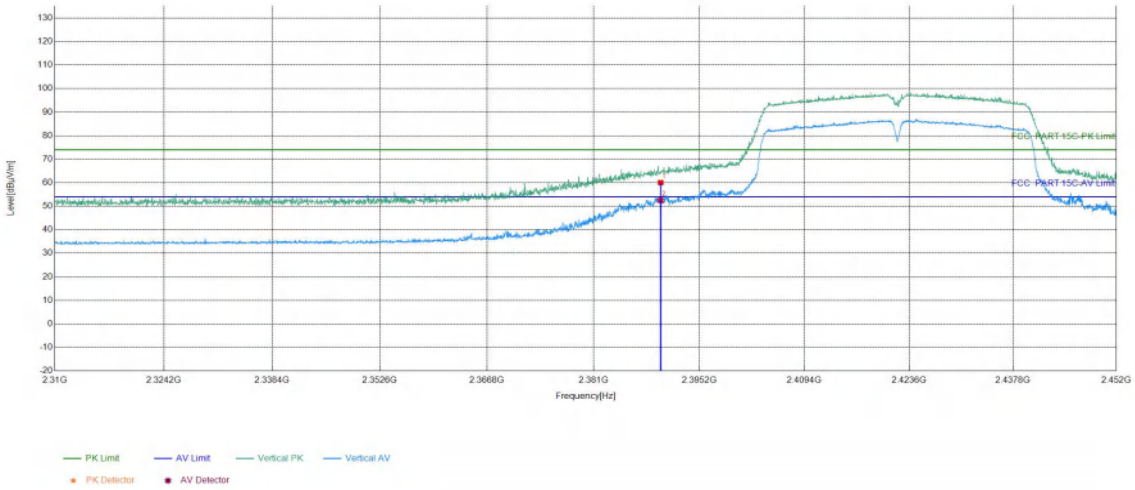
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 42.84 | 58.80 | 74.00 | 15.20 | PASS | Horizontal | PK |
| 2 | 2390 | 15.96 | 30.18 | 46.14 | 54.00 | 7.86 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2422Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

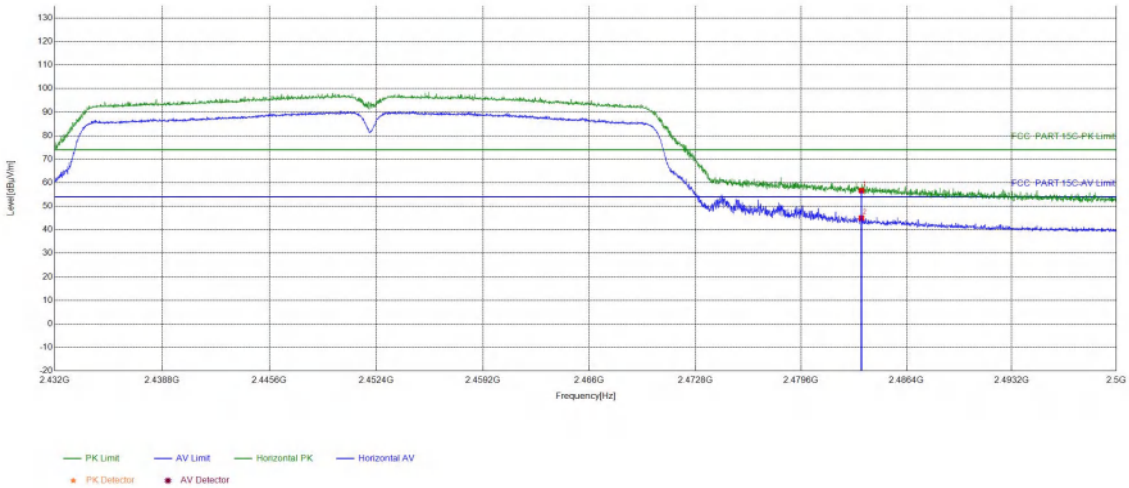
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390 | 15.96 | 44.07 | 60.03 | 74.00 | 13.97 | PASS | Vertical | PK |
| 2 | 2390 | 15.96 | 36.52 | 52.48 | 54.00 | 1.52 | PASS | Vertical | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2452Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

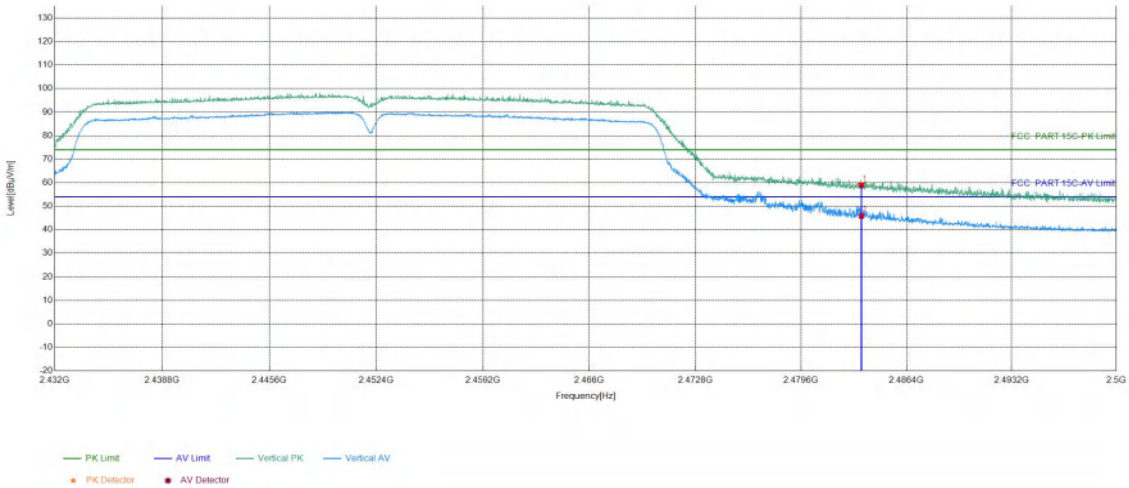
**Test Graph**




| Suspected List | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5 | 16.29 | 40.34 | 56.63 | 74.00 | 17.37 | PASS | Horizontal | PK |
| 2 | 2483.5 | 16.29 | 28.66 | 44.95 | 54.00 | 9.05 | PASS | Horizontal | AV |

| | | | |
|---|---|---|---|
| Test_Mode | 802.11 n(HT40) Transmitting | Test_Frequency | 2452Mhz |
| Tset_Engineer | chenjun | Test_Date | 2025/10/11 |
| Remark | 23.66°C60.82%\ | | |

**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 | 16.29 | 42.72 | 59.01 | 74.00 | 14.99 | PASS | Vertical | PK |
| 2 | 2483.5 | 16.29 | 29.58 | 45.87 | 54.00 | 8.13 | 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

# 6 Appendix A

Refer to Appendix: 2.4G Wi-Fi of EED32R81552403

# 8 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32R81552401 for EUT external and internal photos.

**Statement**

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;

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

3. The result(s) shown in this report refer(s) only to the sample(s) tested;

4. Unless otherwise stated,the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;

5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***