



**Shenzhen Global Test Service Co.,Ltd.**

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community,  
Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

## FCC PART 15 SUBPART C TEST REPORT

### FCC PART 15.247

Report Reference No.....: **GTS20251226016-2-13**

FCC ID.....: **2BFAK-LPR3588**

Compiled by

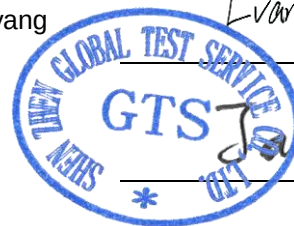
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Date of issue.....: Jun.08, 2026

**Representative Laboratory Name.:** **Shenzhen Global Test Service Co.,Ltd.**

Address .....: Room No. 101, Building 1, and Room No. 101, Building 3, No. 88  
Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan  
District, Shenzhen City, Guangdong, China

**Applicant's name**.....: **Shanghai Neardi Technology Co., LTD.**

Address .....: Room A201-60, Building 16, No.99, Huanhu West 1st Road, Lingang  
New Area, Shanghai, China

**Test specification** .....

Standard .....: **FCC Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz**

TRF Originator.....: Shenzhen Global Test Service Co.,Ltd.

Master TRF.....: Dated 2014-12

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**Test item description** .....: **Embedded Computer**

Trade Mark .....: neardi

Manufacturer .....: Shanghai Neardi Technology Co., LTD.

Model/Type reference.....: LPR3588

Listed Models .....: N/A

Operation Frequency.....: From 2412MHz to 2462MHz

Hardware Version .....: N/A

Software Version .....: N/A

Rating .....: DC 12.0 V

Result.....: **PASS**

TEST REPORT

|                   |                     |               |
|-------------------|---------------------|---------------|
| Test Report No. : | GTS20251226016-2-13 | Jun.08, 2026  |
|                   |                     | Date of issue |

Equipment under Test : Embedded Computer

Model /Type : LPR3588

Listed model : N/A

**Applicant : Shanghai Neardi Technology Co., LTD.**

Address : Room A201-60, Building 16, No.99, Huanhu West 1st Road, Lingang  
New Area, Shanghai, China

**Manufacturer : Shanghai Neardi Technology Co., LTD.**

Address : Room A201-60, Building 16, No.99, Huanhu West 1st Road, Lingang  
New Area, Shanghai, China

|              |      |
|--------------|------|
| Test Result: | PASS |
|--------------|------|

The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 DTS Meas Guidance v05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

[KDB 662911 D01 Multiple Transmitter Output v02r01](#): Measurement of Transmitters with Multiple Output, MIMO, Smart Antenna.

## 2. SUMMARY

### 2.1. General Remarks

|                                |   |              |
|--------------------------------|---|--------------|
| Date of receipt of test sample | : | Apr.23, 2026 |
|                                |   |              |
| Testing commenced on           | : | Apr.23, 2026 |
|                                |   |              |
| Testing concluded on           | : | Jun.06, 2026 |

### 2.2. Product Description

|                                |                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                  | Embedded Computer                                                                                                                                                                                                                                                                                                                                     |
| Trade Mark:                    | neardi                                                                                                                                                                                                                                                                                                                                                |
| Model/Type reference:          | LPR3588                                                                                                                                                                                                                                                                                                                                               |
| List Model:                    | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Model Declaration              | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Power supply:                  | DC 12.0 V                                                                                                                                                                                                                                                                                                                                             |
| Hardware Version               | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Software Version               | N/A                                                                                                                                                                                                                                                                                                                                                   |
| Sample ID                      | GTS20251226016-2-S0001-1# & GTS20251226016-2-S0001-2#                                                                                                                                                                                                                                                                                                 |
| Bluetooth                      |                                                                                                                                                                                                                                                                                                                                                       |
| Frequency Range                | 2402MHz ~ 2480MHz                                                                                                                                                                                                                                                                                                                                     |
| Channel Number                 | 79 channels for Bluetooth (DSS)<br>40 channels for Bluetooth (DTS)                                                                                                                                                                                                                                                                                    |
| Channel Spacing                | 1MHz for Bluetooth (DSS)<br>2MHz for Bluetooth (DTS)                                                                                                                                                                                                                                                                                                  |
| Modulation Type                | GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS)<br>GFSK for Bluetooth (DTS)                                                                                                                                                                                                                                                                           |
| 2.4GWLAN                       |                                                                                                                                                                                                                                                                                                                                                       |
| WLAN Operation frequency       | IEEE 802.11b:2412-2462MHz<br>IEEE 802.11g:2412-2462MHz<br>IEEE 802.11n HT20:2412-2462MHz<br>IEEE 802.11n HT40:2422-2452MHz<br>IEEE 802.11ax HE20:2412-2462MHz<br>IEEE 802.11ax HE40:2422-2452MHz                                                                                                                                                      |
| WLAN Modulation Type           | IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Channel number:                | 11 Channel for IEEE 802.11b/g/n/ax (HT20)<br>7 Channel for IEEE 802.11n/ax (HT40)                                                                                                                                                                                                                                                                     |
| Channel separation:            | 5MHz                                                                                                                                                                                                                                                                                                                                                  |
| WIFI(5.2G/5.3G/5.7G/5.8G Band) |                                                                                                                                                                                                                                                                                                                                                       |
| WLAN Operation frequency       | 5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz to 5825MHz                                                                                                                                                                                                                                                                              |
| WLAN Modulation Type           | IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)                                                                                                                                                                                                |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ax HE80: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                        |
| Channel number:     | 4 Channels for 20MHz bandwidth(5180-5240MHz)<br>4 Channels for 20MHz bandwidth(5260-5320MHz)<br>11 Channels for 20MHz bandwidth(5500-5700MHz)<br>5 channels for 20MHz bandwidth(5745-5825MHz)<br>2 channels for 40MHz bandwidth(5190~5230MHz)<br>2 channels for 40MHz bandwidth(5270~5310MHz)<br>5 Channels for 40MHz bandwidth(5510-5670MHz)<br>2 channels for 40MHz bandwidth(5755~5795MHz)<br>1 channels for 80MHz bandwidth(5210MHz)<br>1 channels for 80MHz bandwidth(5290MHz)<br>2 Channels for 80MHz bandwidth(5530-5610MHz)<br>1 channels for 80MHz bandwidth(5775MHz) |
| Antenna Description | Two external antenna respectively. WLAN support 2*2MIMO technology.<br>ANT0 used for WIFI TX/RX, 6.68 dBi(Max.) for 2.4G Band and 5.91 dBi (Max.) for 5G Band.<br>ANT1 used for Bluetooth and WIFI TX/RX, 6.68 dBi(Max.) for 2.4G Band and 5.91 dBi (Max.) for 5G Band.                                                                                                                                                                                                                                                                                                        |

## 2.3. Equipment Under Test

### Power supply system utilised

|                      |   |                                  |                                  |                       |             |
|----------------------|---|----------------------------------|----------------------------------|-----------------------|-------------|
| Power supply voltage | : | <input type="radio"/>            | 230V / 50 Hz                     | <input type="radio"/> | 120V / 60Hz |
|                      |   | <input type="radio"/>            | 12 V DC                          | <input type="radio"/> | 24 V DC     |
|                      |   | <input checked="" type="radio"/> | Other (specified in blank below) |                       |             |

DC 12.0V

## 2.4. Short description of the Equipment under Test (EUT)

This is a Embedded Computer.

For more details, refer to the user's manual of the EUT.

## 2.5. EUT operation mode

The application provider specific test software to control sample in continuous TX and RX for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n/ax: eleven channels are provided to the EUT.

| Antenna        | Chain 0                             |                                     | Chain 1                             |                                     | Simultaneously                      |
|----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Bandwidth Mode | 20MHz                               | 40MHz                               | 20MHz                               | 40MHz                               | /                                   |
| IEEE 802.11b   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| IEEE 802.11g   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| IEEE 802.11n   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| IEEE 802.11ax  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 1       | 2412           | 8       | 2447           |
| 2       | 2417           | 9       | 2452           |
| 3       | 2422           | 10      | 2457           |
| 4       | 2427           | 11      | 2462           |
| 5       | 2432           |         |                |
| 6       | 2437           |         |                |
| 7       | 2442           |         |                |

The EUT has been tested under operating condition.

AC main conducted emission pre-test voltage at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case(AC 120V/60Hz);

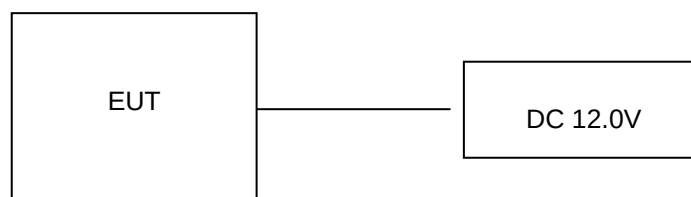
AC main conducted emission pre-test at charge from PC modes, recorded worst case;

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be IEEE 802.11g mode (MCH).

AX mode tested all RU, only worst case mode (Full RU) recorded in report.

## 2.6. Block Diagram of Test Setup



## 2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2BFAK-LPR3588** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

## 2.8. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (adb model) provided by application.

## 2.9. Special Accessories

| Manufacturer                       | Description | Model         | Serial Number | Certificate |
|------------------------------------|-------------|---------------|---------------|-------------|
| Jiangsu Chenyang Electron Co.,Ltd. | Adapter     | CYSE65-240250 | --            | SDOC        |
| THTF                               | Display     | LE23CW-D      | --            | SDOC        |
| DESKYOP-EUIVCNR                    | PC          | LENOVO        | --            | SDOC        |
| T460S                              | Keyboard    | LENOVO        | --            | SDOC        |
| Howard                             | Mouse       | LENOVO        | --            | SDOC        |
| MDR-XB550AP                        | Earphone    | SONY          | --            | SDOC        |

Note: The Adapter, Display, PC, Keyboard, Mouse and Earphone is only used for auxiliary testing.

## 2.10. External I/O Cable

| I/O Port Description | Quantity | Cable                          |
|----------------------|----------|--------------------------------|
| USB Port             | 2        | Connect to Keyboard, and Mouse |
| LAN Port             | 2        | Connect to PC                  |
| Type-C Port          | 2        | N/A                            |
| Earphone Port        | 1        | Connect to Earphone            |
| HDMI Port            | 1        | Connect to Display             |
| DC IN Port           | 1        | Connect to Adapter             |

## 2.11. Modifications

No modifications were implemented to meet testing criteria.

### 3. TEST ENVIRONMENT

#### 3.1. Address of the test laboratory

**Shenzhen Global Test Service Co.,Ltd.**

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China.

#### 3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1401.

FCC Registered Test Site Number is 684561.

#### 3.3. Environmental conditions

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

|                       |              |
|-----------------------|--------------|
| Temperature:          | 15-35 ° C    |
|                       |              |
| Humidity:             | 30-60 %      |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

#### 3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

| Test                  | Range      | Measurement Uncertainty | Notes |
|-----------------------|------------|-------------------------|-------|
| Radiated Emission     | 30~1000MHz | 4.10 dB                 | (1)   |
| Radiated Emission     | 1~18GHz    | 4.32 dB                 | (1)   |
| Radiated Emission     | 18-40GHz   | 5.54 dB                 | (1)   |
| Conducted Disturbance | 0.15~30MHz | 3.12 dB                 | (1)   |

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

### 3.5. Test Description

| Applied Standard: FCC Part 15 Subpart C |                                                  |                                                        |           |            |
|-----------------------------------------|--------------------------------------------------|--------------------------------------------------------|-----------|------------|
| FCC Rules                               | Description of Test                              | Test Sample                                            | Result    | Remark     |
| /                                       | On Time and Duty Cycle                           | GTS20251226016-2-S0001-1#                              | Compliant | Appendix C |
| §15.247(b)                              | Maximum Conducted Output Power                   | GTS20251226016-2-S0001-1#                              | Compliant | Appendix C |
| §15.247(e)                              | Power Spectral Density                           | GTS20251226016-2-S0001-1#                              | Compliant | Appendix C |
| §15.247(a)(2)                           | 6dB Bandwidth                                    | GTS20251226016-2-S0001-1#                              | Compliant | Appendix C |
| §2.1047                                 | 99% Occupied Bandwidth                           | GTS20251226016-2-S0001-1#                              | Compliant | Appendix C |
| §15.209, §15.247(d)                     | Conducted Spurious Emissions and Band Edges Test | GTS20251226016-2-S0001-1#                              | Compliant | Appendix C |
| §15.209, §15.247(d)                     | Radiated Spurious Emissions                      | GTS20251226016-2-S0001-1#<br>GTS20251226016-2-S0001-2# | Compliant | Note 1     |
| §15.205                                 | Emissions at Restricted Band                     | GTS20251226016-2-S0001-1#                              | Compliant | Note 1     |
| §15.207(a)                              | AC Conducted Emissions                           | GTS20251226016-2-S0001-2#                              | Compliant | Note 1     |
| §15.203 §15.247(c)                      | Antenna Requirements                             | GTS20251226016-2-S0001-1#                              | Compliant | Note 1     |
| §15.247(i) §2.1091                      | RF Exposure                                      | /                                                      | Compliant | Note 2     |

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed
3. Note 1 – Test results inside test report;
4. Note 2 – Test results in other test report (MPE Report).
5. We tested all test mode and recorded worst case in report

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Test Items                                                                                                                                                                                           | Mode              | Data Rate | Channel |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|---------|
| Maximum Peak Conducted Output Power<br>Power Spectral Density<br>6dB Bandwidth<br>Spurious RF conducted emission<br>Radiated Emission 9kHz~1GHz&<br>Radiated Emission 1GHz~10 <sup>th</sup> Harmonic | 11b/DSSS          | 1 Mbps    | 1/6/11  |
|                                                                                                                                                                                                      | 11g/OFDM          | 6 Mbps    | 1/6/11  |
|                                                                                                                                                                                                      | 11n(20MHz)/OFDM   | 6.5Mbps   | 1/6/11  |
|                                                                                                                                                                                                      | 11n(40MHz)/OFDM   | 13.5Mbps  | 3/6/9   |
|                                                                                                                                                                                                      | 11ax(20MHz)/OFDMA | 8.6Mbps   | 1/6/11  |
|                                                                                                                                                                                                      | 11ax(40MHz)/OFDMA | 17.2Mbps  | 3/6/9   |
| Band Edge                                                                                                                                                                                            | 11b/DSSS          | 1 Mbps    | 1/11    |
|                                                                                                                                                                                                      | 11g/OFDM          | 6 Mbps    | 1/11    |
|                                                                                                                                                                                                      | 11n(20MHz)/OFDM   | 6.5Mbps   | 1/11    |
|                                                                                                                                                                                                      | 11n(40MHz)/OFDM   | 13.5Mbps  | 3/9     |
|                                                                                                                                                                                                      | 11ax(20MHz)/OFDMA | 8.6Mbps   | 1/11    |
|                                                                                                                                                                                                      | 11ax(40MHz)/OFDMA | 17.2Mbps  | 3/9     |

### 3.6. Equipments Used during the Test

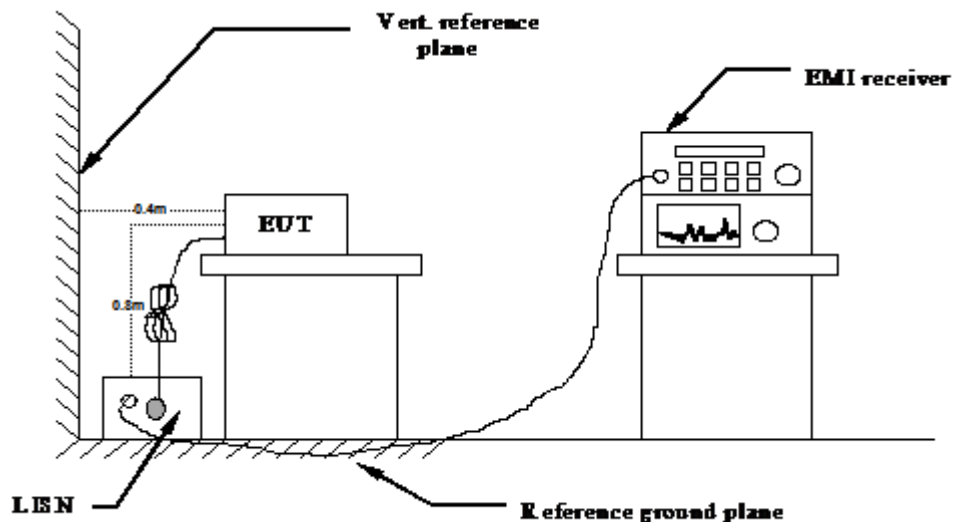
| Test Equipment                  | Manufacturer                      | Model No.          | Serial No.      | Calibration Date | Calibration Due Date |
|---------------------------------|-----------------------------------|--------------------|-----------------|------------------|----------------------|
| Artificial Mains                | CYBERTEK                          | EM5040A            | E1850400205     | 2025/07/07       | 2026/07/06           |
| LISN                            | R&S                               | ESH2-Z5            | 893606/008      | 2025/07/07       | 2026/07/06           |
| EMI Test Receiver               | R&S                               | ESPI 3             | /               | 2025/07/04       | 2026/07/03           |
| Test Receiver                   | R&S                               | ESCI 7             | 101102          | 2025/07/04       | 2026/07/03           |
| Spectrum Analyzer               | Agilent                           | N9020A             | MY48010425      | 2025/07/04       | 2026/07/03           |
| Spectrum Analyzer               | R&S                               | FSV40-N            | 101800          | 2025/07/04       | 2026/07/03           |
| Vector Signal generator         | Agilent                           | N5181A             | MY49060502      | 2025/07/15       | 2026/07/14           |
| Signal generator                | Agilent                           | N5182A             | MY50141550      | 2025/07/04       | 2026/07/03           |
| Climate Chamber                 | ESPEC                             | EL-10KA            | A20120523       | 2025/07/15       | 2026/07/14           |
| Controller                      | EM Electronics                    | Controller EM 1000 | N/A             | N/A              | N/A                  |
| Horn Antenna                    | Schwarzbeck                       | BBHA 9120D         | 01622           | 2025/12/01       | 2026/11/30           |
| Active Loop Antenna             | Beijing Da Ze Technology Co.,Ltd. | ZN30900C           | /               | 2025/07/04       | 2026/07/03           |
| By-log Antenna                  | SCHWARZBECK                       | VULB9163           | 00976           | 2025/07/15       | 2026/07/14           |
| Broadband Horn Antenna          | SCHWARZBECK                       | BBHA 9170          | 791             | 2025/07/15       | 2026/07/14           |
| Amplifier                       | SKET                              | LAPA_30M01G-32     | SK20240104001   | 2025/12/01       | 2026/11/30           |
| Amplifier                       | EMCI                              | EMC012645SE        | 980340          | 2025/12/01       | 2026/11/30           |
| Amplifier                       | Schwarzbeck                       | BBV9179            | 9719-025        | 2025/12/01       | 2026/11/30           |
| Temperature/Humidity Meter      | HUATU                             | HTC-1              | /               | 2025/07/16       | 2026/07/15           |
| High-Pass Filter                | Stest                             | 1                  | /               | 2025/07/04       | 2026/07/03           |
| High-Pass Filter                | Stest                             | 2                  | /               | 2025/07/04       | 2026/07/03           |
| RF Cable(below 1GHz)            | HUBER+SUHNER                      | RG214              | RE01            | 2025/07/15       | 2026/07/14           |
| RF Cable(above 1GHz)            | HUBER+SUHNER                      | RG214              | RE02            | 2025/07/15       | 2026/07/14           |
| Data acquisition card           | Agilent                           | U2531A             | TW53323507      | 2025/07/15       | 2026/07/14           |
| Power Sensor                    | Keysight                          | E9301A             | MY41495308      | 2025/07/04       | 2026/07/03           |
| Control Unit                    | Tonscend                          | JS0806-2           | /               | 2025/07/07       | 2026/07/06           |
| Control Unit                    | Tonscend                          | JS0806-2           | /               | 2025/07/07       | 2026/07/06           |
| integrated measuring instrument | R&S                               | CMW500             | 107519          | 2025/07/04       | 2026/07/03           |
| EMI Test Software               | Tonscend                          | JS1120-1           | Ver 2.6.8.0518  | /                | /                    |
| EMI Test Software               | Tonscend                          | JS1120-3           | Ver 2.5.77.0418 | /                | /                    |
| EMI Test Software               | Tonscend                          | JS32-CE            | Ver 2.5         | /                | /                    |
| EMI Test Software               | Tonscend                          | JS32-RE            | Ver 2.5.1.8     | /                | /                    |

Note: The Cal.Interval was one year.

## 4. TEST CONDITIONS AND RESULTS

### 4.1. AC Power Conducted Emission

#### TEST CONFIGURATION



#### TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- 4 The EUT received DC 12.0V power, the adapter received AC120V/60Hz or AC 240V/50Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

| 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.

#### DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

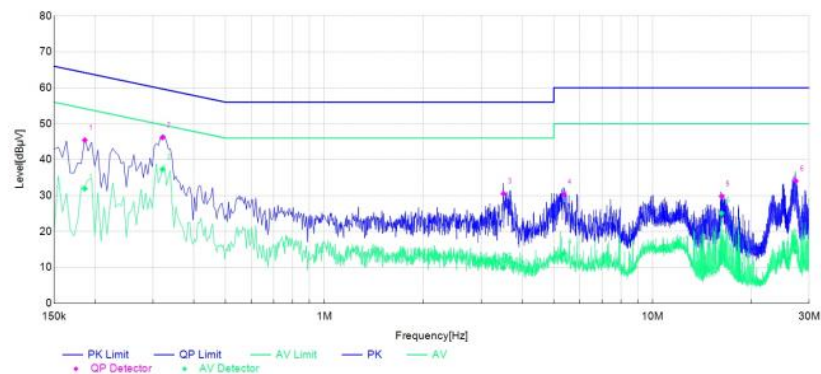
|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude           | PL = 10 dB Pulse Limiter Factor            |

**TEST RESULTS**

Remark: We measured Conducted Emission at 802.11b/802.11g/802.11n HT20 /802.11ax HE20/802.11n HT40 /802.11ax HE40 mode from 150 KHz to 30MHz in AC120V and the worst case was recorded.

|               |             |                |                    |
|---------------|-------------|----------------|--------------------|
| Temperature   | 25°C        | Humidity       | 60%                |
| Test Engineer | Evan Ouyang | Configurations | IEEE 802.11g (MCH) |

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | L |
|---------------|--------------|--------------|---|

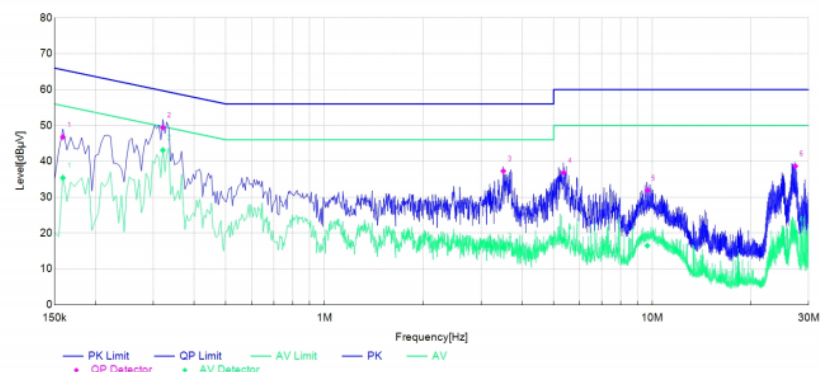
**Test Graph****Final Data List**

| NO. | Frequency [MHz] | QP Reading [dBμV] | AVG. Reading [dBμV] | Factor [dB] | QP Result [dBμV] | AVG. Result [dBμV] | QP Limit [dBμV] | AVG. Limit [dBμV] | QP Margin [dB] | AVG. Margin [dB] | Line | Remark |
|-----|-----------------|-------------------|---------------------|-------------|------------------|--------------------|-----------------|-------------------|----------------|------------------|------|--------|
| 1   | 0.186           | 35.26             | 21.75               | 10.18       | 45.44            | 31.93              | 64.21           | 54.21             | 18.77          | 22.28            | L1   | PASS   |
| 2   | 0.321           | 36.03             | 27.18               | 10.12       | 46.15            | 37.30              | 59.68           | 49.68             | 13.53          | 12.38            | L1   | PASS   |
| 3   | 3.5115          | 20.15             | -0.47               | 10.36       | 30.51            | 9.89               | 56.00           | 46.00             | 25.49          | 36.11            | L1   | PASS   |
| 4   | 5.361           | 19.94             | 3.45                | 10.40       | 30.34            | 13.85              | 60.00           | 50.00             | 29.66          | 36.15            | L1   | PASS   |
| 5   | 16.2285         | 18.64             | 13.91               | 11.17       | 29.81            | 25.08              | 60.00           | 50.00             | 30.19          | 24.92            | L1   | PASS   |
| 6   | 27.33           | 22.33             | 2.75                | 11.73       | 34.06            | 14.48              | 60.00           | 50.00             | 25.94          | 35.52            | L1   | PASS   |

Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

|               |              |              |   |
|---------------|--------------|--------------|---|
| Power supply: | AC 120V/60Hz | Polarization | N |
|---------------|--------------|--------------|---|

**Test Graph****Final Data List**

| NO. | Frequency [MHz] | QP Reading [dBμV] | AVG. Reading [dBμV] | Factor [dB] | QP Result [dBμV] | AVG. Result [dBμV] | QP Limit [dBμV] | AVG. Limit [dBμV] | QP Margin [dB] | AVG. Margin [dB] | Line | Remark |
|-----|-----------------|-------------------|---------------------|-------------|------------------|--------------------|-----------------|-------------------|----------------|------------------|------|--------|
| 1   | 0.159           | 36.44             | 25.07               | 10.31       | 46.75            | 35.38              | 65.52           | 55.52             | 18.77          | 20.14            | N    | PASS   |
| 2   | 0.321           | 39.30             | 32.98               | 10.12       | 49.42            | 43.10              | 59.68           | 49.68             | 10.26          | 6.58             | N    | PASS   |
| 3   | 3.5115          | 26.93             | 5.61                | 10.36       | 37.29            | 15.97              | 56.00           | 46.00             | 18.71          | 30.03            | N    | PASS   |
| 4   | 5.3655          | 26.45             | 7.72                | 10.40       | 36.85            | 18.12              | 60.00           | 50.00             | 23.15          | 31.88            | N    | PASS   |
| 5   | 9.663           | 21.30             | 5.92                | 10.57       | 31.87            | 16.49              | 60.00           | 50.00             | 28.13          | 33.51            | N    | PASS   |
| 6   | 27.321          | 26.96             | 8.64                | 11.70       | 38.66            | 20.34              | 60.00           | 50.00             | 21.34          | 29.66            | N    | PASS   |

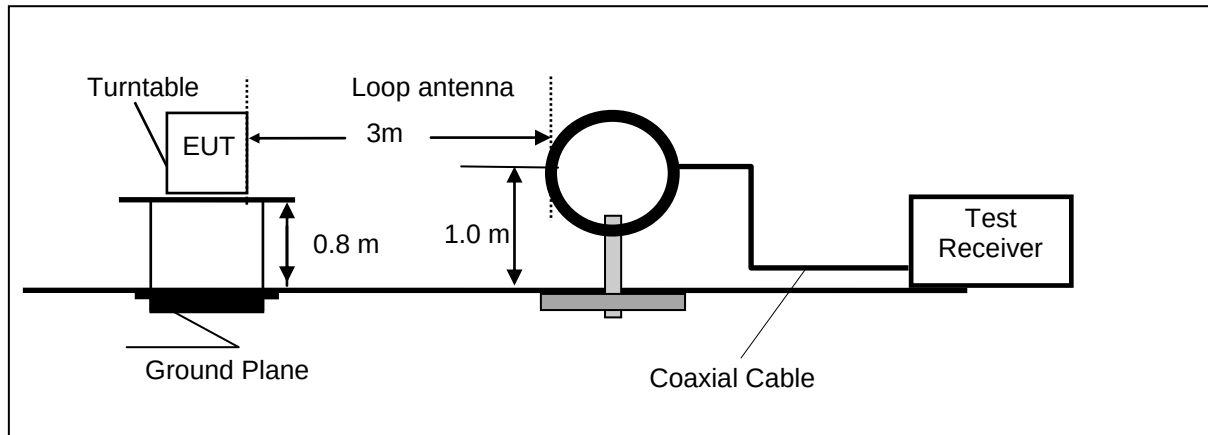
Note:1. Result (dBμV) = Reading (dBμV) + Factor (dB).

2. Factor (dB) = Cable loss (dB) + LISN Factor (dB).

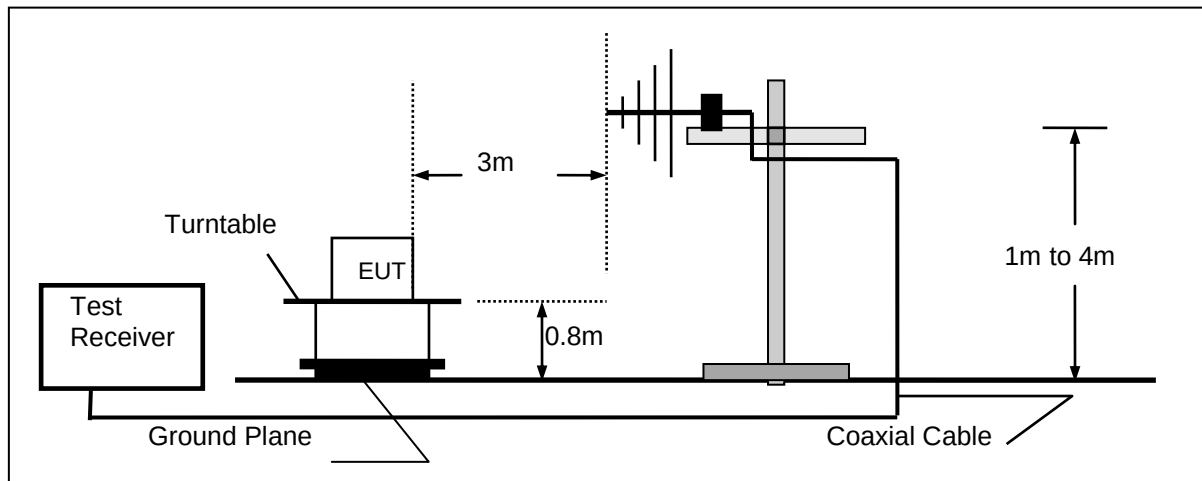
## 4.2. Radiated Emission

### TEST CONFIGURATION

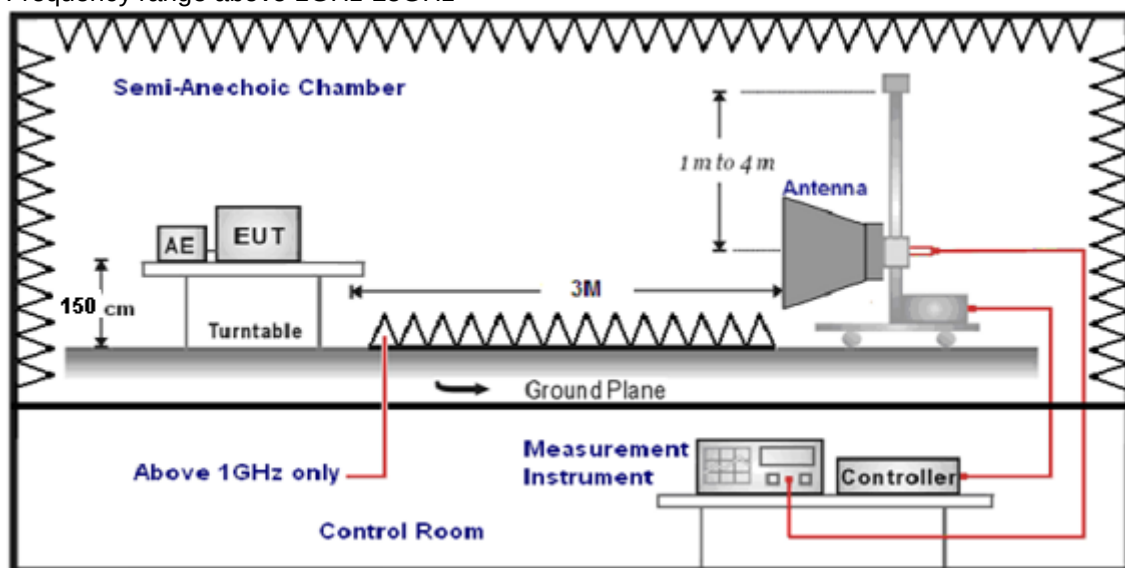
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



**TEST PROCEDURE**

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 30MHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 30MHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type          | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna        | 3             |
| 30MHz-1GHz           | Ultra-Broadband Antenna    | 3             |
| 1GHz-18GHz           | Double Ridged Horn Antenna | 3             |
| 18GHz-25GHz          | Horn Antenna               | 1             |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting                                                                            | Detector |
|----------------------|-----------------------------------------------------------------------------------------------------------|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz, Sweep time=Auto                                                                       | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz, Sweep time=Auto                                                                      | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz, Sweep time=Auto                                                                   | QP       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz,<br>Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz,<br>Sweep time=Auto | Peak     |

**Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

$$Transd=AF +CL-AG$$

**RADIATION LIMIT**

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                          | Radiated (μV/m)       |
|-----------------|-------------------|--------------------------------------------|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30)+40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0                                       | 100                   |
| 88-216          | 3                 | 43.5                                       | 150                   |
| 216-960         | 3                 | 46.0                                       | 200                   |
| Above 960       | 3                 | 54.0                                       | 500                   |

**TEST RESULTS**

Remark: We measured Radiated Emission at 802.11b/802.11g/802.11n HT20/802.11n HT40/802.11ax HE20/802.11ax HE40 mode from 9KHz to 25GHz in AC120V and the worst case was recorded.

|               |             |                |                    |
|---------------|-------------|----------------|--------------------|
| Temperature   | 25°C        | Humidity       | 60%                |
| Test Engineer | Evan Ouyang | Configurations | IEEE 802.11g (MCH) |

**For 9 KHz~30MHz**

| Freq. (MHz) | Level (dBuV) | Over Limit (dB) | Over Limit (dBuV) | Remark   |
|-------------|--------------|-----------------|-------------------|----------|
| -           | -            | -               | -                 | See Note |

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

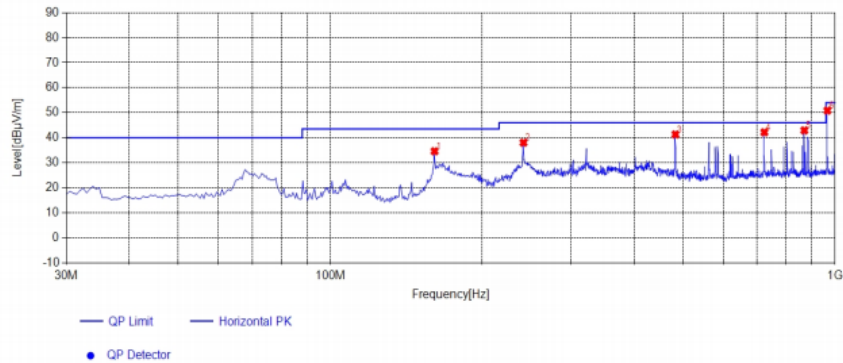
Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

## For 30MHz-1GHz

## Horizontal

## Test Graph



## Suspected List

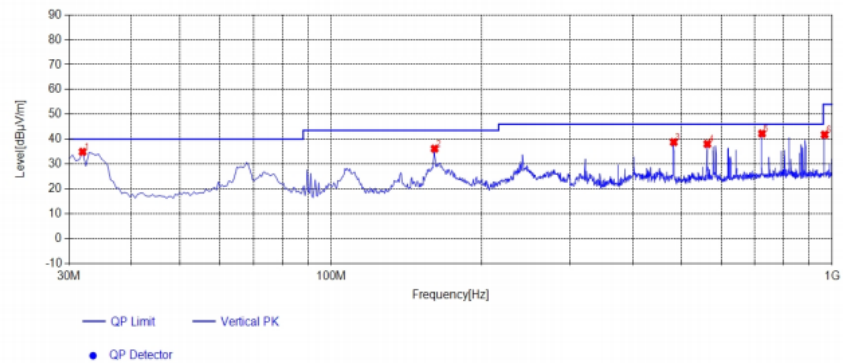
| NO. | Frequency<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Result<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Detector | Polarity   | Remark |
|-----|--------------------|---------------------|----------------|--------------------|-------------------|----------------|----------------|--------------|----------|------------|--------|
| 1   | 160.95             | 47.70               | -13.14         | 34.56              | 43.50             | 8.94           | 100            | 339          | PK       | Horizontal | PASS   |
| 2   | 241.46             | 47.03               | -9.03          | 38.00              | 46.00             | 8.00           | 100            | 10           | PK       | Horizontal | PASS   |
| 3   | 482.99             | 44.06               | -2.75          | 41.31              | 46.00             | 4.69           | 100            | 358          | PK       | Horizontal | PASS   |
| 4   | 724.52             | 41.39               | 0.76           | 42.15              | 46.00             | 3.85           | 100            | 106          | PK       | Horizontal | PASS   |
| 5   | 869.535            | 41.40               | 1.51           | 42.91              | 46.00             | 3.09           | 100            | 271          | PK       | Horizontal | PASS   |
| 6   | 966.05             | 48.37               | 2.48           | 50.85              | 54.00             | 3.15           | 100            | 102          | PK       | Horizontal | PASS   |

Note:1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

## Vertical

## Test Graph



## Suspected List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV/m] | Factor<br>[dB] | Result<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Detector | Polarity | Remark |
|-----|--------------------|---------------------|----------------|--------------------|-------------------|----------------|----------------|--------------|----------|----------|--------|
| 1   | 31.94              | 47.59               | -12.73         | 34.86              | 40.00             | 5.14           | 100            | 10           | PK       | Vertical | PASS   |
| 2   | 160.95             | 49.27               | -13.14         | 36.13              | 43.50             | 7.37           | 100            | 149          | PK       | Vertical | PASS   |
| 3   | 482.99             | 41.53               | -2.75          | 38.78              | 46.00             | 7.22           | 100            | 28           | PK       | Vertical | PASS   |
| 4   | 563.5              | 39.18               | -1.15          | 38.03              | 46.00             | 7.97           | 100            | 47           | PK       | Vertical | PASS   |
| 5   | 724.52             | 41.46               | 0.76           | 42.22              | 46.00             | 3.78           | 100            | 145          | PK       | Vertical | PASS   |
| 6   | 966.05             | 39.28               | 2.48           | 41.76              | 54.00             | 12.24          | 100            | 115          | PK       | Vertical | PASS   |

Note:1. Result (dBμV/m) = Reading(dBμV/m) + Factor (dB) .

2. Factor (dB) = Antenna Factor (dB/m) + Cable loss (dB) - Pre Amplifier gain (dB).

**For 1GHz to 25GHz**

IEEE 802.11n HT20\_MIMO(Worst Case)

Channel 1 / 2412 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4824.00   | 50.31        | 32.44          | 30.25        | 7.95         | 60.45           | 74.00        | -13.55    | Peak    | Horizontal |
| 4824.00   | 34.78        | 32.44          | 30.25        | 7.95         | 44.92           | 54.00        | -9.08     | Average | Horizontal |
| 4824.00   | 53.29        | 32.44          | 30.25        | 7.95         | 63.43           | 74.00        | -10.57    | Peak    | Vertical   |
| 4824.00   | 36.05        | 32.44          | 30.25        | 7.95         | 46.19           | 54.00        | -7.81     | Average | Vertical   |

Channel 6 / 2437 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4874.00   | 49.48        | 32.52          | 30.31        | 8.12         | 59.81           | 74.00        | -14.19    | Peak    | Horizontal |
| 4874.00   | 37.86        | 32.52          | 30.31        | 8.12         | 48.19           | 54.00        | -5.81     | Average | Horizontal |
| 4874.00   | 51.07        | 32.52          | 30.31        | 8.12         | 61.40           | 74.00        | -12.60    | Peak    | Vertical   |
| 4874.00   | 35.39        | 32.52          | 30.31        | 8.12         | 45.72           | 54.00        | -8.28     | Average | Vertical   |

Channel 11 / 2462 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4924.00   | 52.02        | 32.68          | 30.27        | 7.88         | 62.31           | 74.00        | -11.69    | Peak    | Horizontal |
| 4924.00   | 36.13        | 32.68          | 30.27        | 7.88         | 46.42           | 54.00        | -7.58     | Average | Horizontal |
| 4924.00   | 48.51        | 32.68          | 30.27        | 7.88         | 58.80           | 74.00        | -15.20    | Peak    | Vertical   |
| 4924.00   | 31.76        | 32.68          | 30.27        | 7.88         | 42.05           | 54.00        | -11.95    | Average | Vertical   |

IEEE 802.11ax HE20\_MIMO(Worst Case)

Channel 1 / 2412 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4824.00   | 50.68        | 32.44          | 30.25        | 7.95         | 60.82           | 74.00        | -13.18    | Peak    | Horizontal |
| 4824.00   | 35.91        | 32.44          | 30.25        | 7.95         | 46.05           | 54.00        | -7.95     | Average | Horizontal |
| 4824.00   | 53.68        | 32.44          | 30.25        | 7.95         | 63.82           | 74.00        | -10.18    | Peak    | Vertical   |
| 4824.00   | 35.38        | 32.44          | 30.25        | 7.95         | 45.52           | 54.00        | -8.48     | Average | Vertical   |

Channel 6 / 2437 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4874.00   | 49.37        | 32.52          | 30.31        | 8.12         | 59.70           | 74.00        | -14.30    | Peak    | Horizontal |
| 4874.00   | 36.97        | 32.52          | 30.31        | 8.12         | 47.30           | 54.00        | -6.70     | Average | Horizontal |
| 4874.00   | 51.41        | 32.52          | 30.31        | 8.12         | 61.74           | 74.00        | -12.26    | Peak    | Vertical   |
| 4874.00   | 35.49        | 32.52          | 30.31        | 8.12         | 45.82           | 54.00        | -8.18     | Average | Vertical   |

Channel 11 / 2462 MHz

| Freq. MHz | Reading dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark  | Pol.       |
|-----------|--------------|----------------|--------------|--------------|-----------------|--------------|-----------|---------|------------|
| 4924.00   | 50.37        | 32.68          | 30.27        | 7.88         | 60.66           | 74.00        | -13.34    | Peak    | Horizontal |
| 4924.00   | 35.17        | 32.68          | 30.27        | 7.88         | 45.46           | 54.00        | -8.54     | Average | Horizontal |
| 4924.00   | 50.19        | 32.68          | 30.27        | 7.88         | 60.48           | 74.00        | -13.52    | Peak    | Vertical   |
| 4924.00   | 30.78        | 32.68          | 30.27        | 7.88         | 41.07           | 54.00        | -12.93    | Average | Vertical   |

## REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

**NOTE: All the modes have been tested and recorded worst mode in the report(MIMO).**

### 4.3. On Time and Duty Cycle

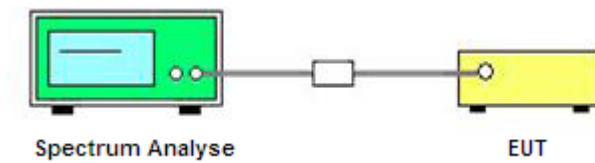
#### LIMIT

None; for reporting purpose only.

#### TEST PROCEDURE

1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
2. Set the span=0MHz, RBW=8MHz, VBW=8MHz, Sweep time= auto couple;
3. Detector = peak;
4. Trace mode = Single hold.

#### TEST CONFIGURATION



#### TEST RESULTS

For reporting purpose only.

##### **Antenna 0:**

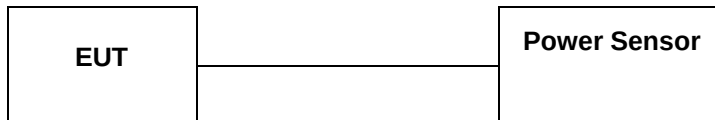
Please refer to Appendix C-ANT0-Appendix C.7.

##### **Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.7.

#### 4.4. Maximum Peak Output Power

##### TEST CONFIGURATION



##### TEST PROCEDURE

According to KDB558074 D01 DTS Measurement Guidance Section 9.1 Maximum peak conducted output power, 9.1.2. and Average conducted output power, 9.2.3.1.

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 utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF power meter with a thermocouple detector or equivalent. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

##### LIMIT

The Maximum Peak Output Power Measurement is 30dBm.

##### TEST RESULTS

For reporting purpose only.

##### **Antenna 0:**

Please refer to Appendix C-ANT0-Appendix C.3.

For reporting purpose only.

##### **Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.3.

For reporting purpose only.

##### **MIMO\*2**

| Type            | Channel | Peak Output power ANT0 (dBm) | Peak Output power ANT1 (dBm) | Peak Output power Total (dBm) | Limit (dBm) | Result |
|-----------------|---------|------------------------------|------------------------------|-------------------------------|-------------|--------|
| 802.11n (HT20)  | 01      | 13.88                        | 13.86                        | 16.88                         | 26.31       | Pass   |
|                 | 06      | 14.03                        | 14.10                        | 17.08                         |             |        |
|                 | 11      | 14.07                        | 13.76                        | 16.93                         |             |        |
| 802.11n (HT40)  | 03      | 13.73                        | 13.06                        | 16.42                         | 26.31       | Pass   |
|                 | 06      | 14.06                        | 13.56                        | 16.83                         |             |        |
|                 | 09      | 13.37                        | 12.90                        | 16.15                         |             |        |
| 802.11ax (HE20) | 01      | 14.85                        | 14.37                        | 17.63                         | 26.31       | Pass   |
|                 | 06      | 14.76                        | 14.63                        | 17.71                         |             |        |
|                 | 11      | 14.63                        | 14.36                        | 17.51                         |             |        |
| 802.11ax (HE40) | 03      | 15.84                        | 15.27                        | 18.57                         | 26.31       | Pass   |
|                 | 06      | 16.26                        | 15.90                        | 19.09                         |             |        |
|                 | 09      | 15.56                        | 15.11                        | 18.35                         |             |        |

Remark:

The Directional Gain= Gain of individual transmit antennas (dBi) + Array gain;

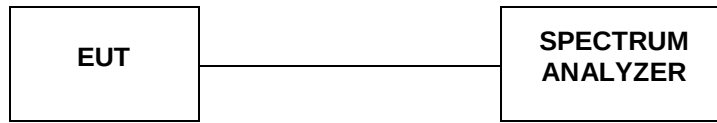
Array gain = 10 log (Nant), where Nant is the number of transmit antennas

Directional Gain=9.69 dBi

MIMO Limit (dBm)= Limit (dBm)-(Directional Gain-6dBi)

## 4.5. Power Spectral Density

### TEST CONFIGURATION



### TEST PROCEDURE

According to KDB 558074 D01 Method PKPSD (peak PSD) This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \text{ RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### LIMIT

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### TEST RESULTS

For reporting purpose only.

#### **Antenna 0:**

Please refer to Appendix C-ANT0-Appendix C.4.

For reporting purpose only.

#### **Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.4.

For reporting purpose only.

**MIMO\*2**

| Type           | Channel | Power Spectral Density ANT0 (dBm/3KHz) | Power Spectral Density ANT1 (dBm/3KHz) | Power Spectral Density Total (dBm/3KHz) | Limit (dBm/3KHz) | Result |
|----------------|---------|----------------------------------------|----------------------------------------|-----------------------------------------|------------------|--------|
| 802.11n(HT20)  | 01      | -17.61                                 | -18.36                                 | -14.96                                  | 4.31             | Pass   |
|                | 06      | -18.24                                 | -17.82                                 | -15.01                                  |                  |        |
|                | 11      | -18.12                                 | -18.05                                 | -15.07                                  |                  |        |
| 802.11n(HT40)  | 03      | -20.99                                 | -20.62                                 | -17.79                                  | 4.31             | Pass   |
|                | 06      | -20.34                                 | -21.49                                 | -17.87                                  |                  |        |
|                | 09      | -21.58                                 | -22.38                                 | -18.95                                  |                  |        |
| 802.11ax(HE20) | 01      | -19.30                                 | -19.15                                 | -16.21                                  | 4.31             | Pass   |
|                | 06      | -18.40                                 | -18.61                                 | -15.49                                  |                  |        |
|                | 11      | -17.71                                 | -19.06                                 | -15.32                                  |                  |        |
| 802.11ax(HE40) | 03      | -20.72                                 | -20.20                                 | -17.44                                  | 4.31             | Pass   |
|                | 06      | -18.75                                 | -20.49                                 | -16.52                                  |                  |        |
|                | 09      | -19.92                                 | -19.85                                 | -16.87                                  |                  |        |

**Remark:**

The Directional Gain= Gain of individual transmit antennas (dBi) + Array gain;

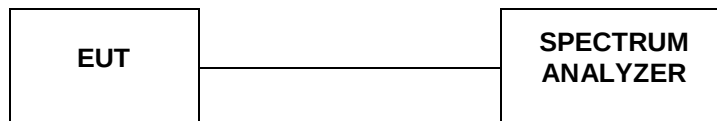
Array gain =  $10 \log(N_{ant})$ , where  $N_{ant}$  is the number of transmit antennas

Directional Gain=9.69 dBi

MIMO Limit (dBm)= Limit (dBm)-(Directional Gain-6dBi)

## 4.6. 99% and 6dB Bandwidth

### TEST CONFIGURATION



### TEST PROCEDURE

#### 6dB Bandwidth:

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. According to KDB558074 D01 for one of the following procedures may be used to determine the modulated DTS device signal bandwidth.

1. Set RBW = 430 kHz&820 kHz.
2. Set the video bandwidth (VBW)  $\geq 3$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. 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.

#### 99% Bandwidth:

According to section 6.9.3 of ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, for the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. Set RBW = 1%~5% OBW; VBW $\geq 3$ \*RBW (for occupied bandwidth measurement).
3. Measured the 6dB bandwidth and 99% occupied bandwidth by related function of the spectrum analyzer.

### LIMIT

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

### TEST RESULTS

For reporting purpose only.

#### 6dB Bandwidth

##### **Antenna 0:**

Please refer to Appendix C-ANT0-Appendix C.1.

##### **Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.1.

#### 99% Bandwidth

##### **Antenna 0:**

Please refer to Appendix C-ANT0-Appendix C.2.

##### **Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.2.

## 4.7. Conducted Spurious Emissions and Band Edge Compliance of RF Emission

### TEST REQUIREMENT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### TEST PROCEDURE

According to KDB 558074 D01 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=10Hz for average detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.
6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies  $\leq 30$  MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies  $> 1000$  MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:  

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

11. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
12. Compare the resultant electric field strength level to the applicable regulatory limit.
13. Perform radiated spurious emission test dures until all measured frequencies were complete.

### LIMIT

Below -20dB of the highest emission level in operating band.

Radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a).

**TEST RESULTS****4.6.1 For Radiated Bandedge Measurement**

|               |             |                |                     |
|---------------|-------------|----------------|---------------------|
| Temperature   | 23.8℃       | Humidity       | 53.7%               |
| Test Engineer | Evan Ouyang | Configurations | IEEE 802.11b/g/n/ax |

**NOTE: All the modes have been tested and recorded worst mode in the report.****IEEE 802.11b Antenna 0**

| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
|-----------------|-------------------------|----|----------------|-------------|--------------------|----------------------|------------------|-----------------------|-------------------|---------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 46.11                   | PK | 74.00          | -27.89      | 1.50               | 74                   | 51.42            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 34.88                   | AV | 54.00          | -19.12      | 1.50               | 74                   | 40.19            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 49.25                   | PK | 74.00          | -24.75      | 1.50               | 267                  | 54.56            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 31.53                   | AV | 54.00          | -22.47      | 1.50               | 267                  | 36.84            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 45.77                   | PK | 74.00          | -28.23      | 1.50               | 203                  | 51.49            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 34.43                   | AV | 54.00          | -19.57      | 1.50               | 203                  | 40.15            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 50.22                   | PK | 74.00          | -23.78      | 1.50               | 144                  | 55.94            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 30.68                   | AV | 54.00          | -23.32      | 1.50               | 144                  | 36.40            | 27.45                 | 3.38              | 36.55         | -5.72                    |

**IEEE 802.11g Antenna 0**

| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
|-----------------|-------------------------|----|----------------|-------------|--------------------|----------------------|------------------|-----------------------|-------------------|---------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 46.17                   | PK | 74.00          | -27.83      | 1.50               | 123                  | 51.48            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 34.01                   | AV | 54.00          | -19.99      | 1.50               | 123                  | 39.32            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 49.83                   | PK | 74.00          | -24.17      | 1.50               | 94                   | 55.14            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 30.40                   | AV | 54.00          | -23.60      | 1.50               | 94                   | 35.71            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 45.08                   | PK | 74.00          | -28.92      | 1.50               | 186                  | 50.80            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 33.49                   | AV | 54.00          | -20.51      | 1.50               | 186                  | 39.21            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 49.91                   | PK | 74.00          | -24.09      | 1.50               | 155                  | 55.63            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 30.33                   | AV | 54.00          | -23.67      | 1.50               | 155                  | 36.05            | 27.45                 | 3.38              | 36.55         | -5.72                    |

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| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
|-----------------|-------------------------|----|----------------|-------------|--------------------|----------------------|------------------|-----------------------|-------------------|---------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 45.63                   | PK | 74.00          | -28.37      | 1.50               | 101                  | 50.94            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 35.33                   | AV | 54.00          | -18.67      | 1.50               | 101                  | 40.64            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 50.25                   | PK | 74.00          | -23.75      | 1.50               | 212                  | 55.56            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 30.65                   | AV | 54.00          | -23.35      | 1.50               | 212                  | 35.96            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 45.46                   | PK | 74.00          | -28.54      | 1.50               | 335                  | 51.18            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 33.88                   | AV | 54.00          | -20.12      | 1.50               | 335                  | 39.60            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 49.29                   | PK | 74.00          | -24.71      | 1.50               | 189                  | 55.01            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 30.07                   | AV | 54.00          | -23.93      | 1.50               | 189                  | 35.79            | 27.45                 | 3.38              | 36.55         | -5.72                    |

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| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
|-----------------|-------------------------|----|----------------|-------------|--------------------|----------------------|------------------|-----------------------|-------------------|---------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 47.10                   | PK | 74.00          | -26.90      | 1.50               | 124                  | 52.41            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 34.34                   | AV | 54.00          | -19.66      | 1.50               | 124                  | 39.65            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2412           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2390.00         | 50.68                   | PK | 74.00          | -23.32      | 1.50               | 78                   | 55.99            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| 2390.00         | 29.74                   | AV | 54.00          | -24.26      | 1.50               | 78                   | 35.05            | 27.49                 | 3.32              | 36.12         | -5.31                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | HORIZONTAL        |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 45.02                   | PK | 74.00          | -28.98      | 1.50               | 179                  | 50.74            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 34.01                   | AV | 54.00          | -19.99      | 1.50               | 179                  | 39.73            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| Frequency(MHz): |                         |    | 2462           |             |                    | Polarity:            |                  |                       | VERTICAL          |               |                          |
| Frequency (MHz) | Emission Level (dBuV/m) |    | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier | Correction Factor (dB/m) |
| 2483.50         | 49.96                   | PK | 74.00          | -24.04      | 1.50               | 166                  | 55.68            | 27.45                 | 3.38              | 36.55         | -5.72                    |
| 2483.50         | 31.09                   | AV | 54.00          | -22.91      | 1.50               | 166                  | 36.81            | 27.45                 | 3.38              | 36.55         | -5.72                    |

## REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the PK detector measured value is below average limit.
5. The other emission levels were very low against the limit.

#### **4.6.2 For Conducted Bandedge Measurement**

For reporting purpose only.

**Antenna 0:**

Please refer to Appendix C-ANT0-Appendix C.5.

**Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.5.

#### **4.6.3 For Conducted Spurious Emissions Measurement**

For reporting purpose only.

**Antenna 0:**

Please refer to Appendix C-ANT0-Appendix C.6.

**Antenna 1:**

Please refer to Appendix C-ANT1-Appendix C.6.

#### **4.8. Antenna Requirement**

##### **Standard Applicable**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

##### **Test Result**

The antenna used for this product is external Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 6.68dBi.

Reference to the Test Report: **GTS20251226016-2-11.**

## **5. TEST SETUP PHOTOS OF THE EUT**

Reference to the Test Report: GTS20251226016-2-11.

## **6. EXTERNAL AND INTERNAL PHOTOS OF THE EUT**

Reference to the Test Report: GTS20251226016-2-11.

.....End of Report.....