

# Radio Test Report

## 47 CFR Part 15.247

**Applicant's name** : Shantou Chenghai Yegao Toys Factory  
**Address** : No. 4, Mulin Lane 6, Huainan Village, Lianxia Town, Chenghai District,  
Shantou City, Guangdong Province  
**Manufacture's Name** : Shantou Chenghai Yegao Toys Factory  
**Address** : No. 4, Mulin Lane 6, Huainan Village, Lianxia Town, Chenghai District,  
Shantou City, Guangdong Province

### Product description

**Trader mark** : N/A  
**Product Name:** : Mini Remote Control Car  
**Model and/or type reference** : YG-Y1120  
**Serial Model** : YG-Y1120A(Please refer to page 2 for other models)  
**Rating(s)** : DC 3.0V, 16mA, 0.048W  
**Standards** : 47 CFR Part 15.247  
**FCC ID** : 2BWWO-YGY1120

The EUT described above has been tested by us with the listed standards and found in compliance with the FCC requirements. It is possible to use FCC marking to demonstrate the compliance with this FCC requirements.

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### Date of Test

**Date (s) of performance of tests** : 2026-07-03 ~ 2026-07-20  
**Date of Issue** : 2026-07-20  
**Test Result** : **Pass**

Prepared by:

Jide Huang

Project Engineer

Reviewed by:

Eason Zhou

Project Supervisor

Approved by:

Jason Yu

Technical Director

**Other models:**

YG-Y1120B, YG-Y1120C, YG-Y1120D, YG-Y1120H, YG-Y1120I, YG-Y1120J, YG-Y1120K, YG-1140, YG-1140A, YG-1140B, YG-1140C, YG-Y1150, YG-Y1160, YG-Y1160A, YG-Y1160B, YG-Y1160C, YG-Y1160D, YG-Y1160E, YG-Y1160F, YG-Y1160G, YG-Y1160H, YG-Y1170, YG-Y1170A, YG-Y1170B, YG-Y1170C, YG-Y1170D, YG-Y1180, YG-Y1180A, YG-Y1180B, YG-Y1180C, YG-Y1180D, YG-Y1180E, YG-Y1180F, YG-Y1180G, YG-Y1180H, YG-Y1180I, YG-Y1180J, YG-Y1180K, YG-Y1180L, YG-Y1180N, YG-Y1180M, YG-Y1180O, YG-Y1180P, YG-Y1180Q, YG-Y1180R, YG-Y1180S, YG-Y1180T, YG-Y1180U, YG-Y1180V, YG-Y1180W, YG-Y1180X, YG-Y1180Y, YG-Y1180Z, YG-Y1100, YG-Y1100A, YG-Y1100B, YG-Y1100C, YG-Y1100D, YG-Y1100E, YG-Y1100F, YG-Y1100G, YG-Y1100H, YG-Y1100I, YG-Y1100J, YG-Y1100K, YG-Y1100L, YG-Y1100M, YG-Y1100N, YG-Y1100O, YG-Y1100P, YG-Y1100Q, YG-Y1100R, YG-Y1100S, YG-Y1100T, YG-Y1100U, YG-Y1100V, YG-Y1100W, YG-Y1100X, YG-Y1100Y, YG-Y1100Z, YG-Y1140D, YG-Y1140E, YG-Y1140F, YG-Y1140G, YG-Y1140H, YG-Y1140I, YG-Y1140J, YG-Y1140K, YG-Y1140L, YG-Y1140N, YG-Y1170E, YG-Y1170F, YG-Y1170G, YG-Y1170H, YG-Y1170I, YG-Y1170J, YG-Y1170K, YG-Y1170L, YG-Y1170N, YG-Y1120L, YG-Y1120N, YG-Y1120M, YG-Y1120O, YG-Y1120P, YG-Y1120Q, YG-Y1120R, YG-Y1120S, YG-Y1120T, YG-Y1120V, YG-Y1120W, YG-Y1120X, YG-Y1120Y, YG-Y1120Z, YG-Y1160I, YG-Y1160J, YG-Y1160K, YG-Y1160L, YG-Y1160N, YG-Y1160M, YG-Y1160O, YG-Y1160P, YG-Y1160Q, YG-Y1160R, YG-Y1160S, YG-Y1160T, YG-Y1160V, YG-Y1160U, YG-Y1160W, YG-Y1160Z, YG-Y1160Y, YG-Y1190, YG-Y1190A, YG-Y1190B, YG-Y1190C, YG-Y1190D, YG-Y1190F, YG-Y1190G, YG-Y1190H, YG-Y1200, YG-Y1200A, YG-Y1200B, YG-Y1200c, YG-Y1210, YG-Y1210A, YG-Y1210B, YG-Y1210C, YG-Y1210D, YG-Y1210E, YG-Y1210F, YG-Y1210G, YG-Y1210H, YG-Y1210I, YG-Y1210J, YG-Y1210K, YG-Y1220, YG-Y1220A, YG-Y1220B, YG-Y1220C, YG-Y1220D, YG-Y1220E, YG-Y1220F, YG-Y1220G, YG-Y1220H, YG-Y1220I, YG-Y1220J, YG-Y1220K, YG-Y1120E, YG-Y1120F, YG-Y1120G



REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date | Valid Version | Notes           |
|----------------|-------------|-------------|---------------|-----------------|
| V1.0           | /           | 2026-07-20  | Valid         | Initial Release |



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## 1. TEST SUMMARY

| No. | Test Item                                   | Basic Standard     | Requirement                         | Result |
|-----|---------------------------------------------|--------------------|-------------------------------------|--------|
| 1   | Antenna requirement                         | 47 CFR Part 15.247 | 47 CFR 15.203                       | PASS   |
| 2   | 6dB Bandwidth                               | 47 CFR Part 15.247 | 47 CFR 15.247(a)(2)                 | PASS   |
| 3   | Maximum Conducted Output Power              | 47 CFR Part 15.247 | 47 CFR 15.247(b)(3)                 | PASS   |
| 4   | Power Spectral Density                      | 47 CFR Part 15.247 | 47 CFR 15.247(e)                    | PASS   |
| 5   | Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | 47 CFR 15.247(d)                    | PASS   |
| 6   | Band edge emissions (Radiated)              | 47 CFR Part 15.247 | 47 CFR 15.247(d),<br>15.209, 15.205 | PASS   |
| 7   | Emissions in frequency bands (below 1GHz)   | 47 CFR Part 15.247 | 47 CFR 15.247(d),<br>15.209, 15.205 | PASS   |
| 8   | Emissions in frequency bands (above 1GHz)   | 47 CFR Part 15.247 | 47 CFR 15.247(d),<br>15.209, 15.205 | PASS   |

## 2. MEASUREMENT UNCERTAINTY

The report uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty Multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

| No. | Item                                    | Uncertainty          |
|-----|-----------------------------------------|----------------------|
| 1   | Occupied Channel Bandwidth              | $\pm 3.5\%$          |
| 2   | RF output power, conducted              | $\pm 1.19\text{dB}$  |
| 3   | Power Spectral Density, Conducted       | $\pm 0.72\text{dB}$  |
| 4   | Unwanted Emissions, conducted           | $\pm 2.988\text{dB}$ |
| 5   | All emissions, radiated (1GHz - 18GHz)  | $\pm 4.66\text{dB}$  |
| 6   | All emissions, radiated (30MHz - 1GHz)  | $\pm 3.94\text{dB}$  |
| 7   | All emissions, radiated (18GHz - 40GHz) | $\pm 4.31\text{dB}$  |

### 3. TEST FACILITY

Shenzhen VOP Testing Technology Co., Ltd.

Add:103, Building 5, Wanyan Industrial Park Qiaotou Community, Fuhai Street, Baoan District Shenzhen, Guangdong  
People's Republic of China

FCC :Designation Number:CN1438,Certificate Number: 7579.01

#### 3.1. Deviation from Standard

None

#### 3.2. Abnormalities from Standard Conditions

None



## 4. GENERAL INFORMATION

### 4.1. General Description of EUT

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:           | Shantou Chenghai Yegao Toys Factory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Manufacturer Address:   | No. 4, Mulin Lane 6, Huainan Village, Lianxia Town, Chenghai District, Shantou City, Guangdong Province                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EUT Name:               | Mini Remote Control Car                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Model No:               | YG-Y1120                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Serial Model:           | YG-Y1120A, YG-Y1120B, YG-Y1120C, YG-Y1120D, YG-Y1120H, YG-Y1120I, YG-Y1120J, YG-Y1120K, YG-1140, YG-1140A, YG-1140B, YG-1140C, YG-Y1150, YG-Y1160, YG-Y1160A, YG-Y1160B, YG-Y1160C, YG-Y1160D, YG-Y1160E, YG-Y1160F, YG-Y1160G, YG-Y1160H, YG-Y1170, YG-Y1170A, YG-Y1170B, YG-Y1170C, YG-Y1170D, YG-Y1180, YG-Y1180A, YG-Y1180B, YG-Y1180C, YG-Y1180D, YG-Y1180E, YG-Y1180F, YG-Y1180G, YG-Y1180H, YG-Y1180I, YG-Y1180J, YG-Y1180K, YG-Y1180L, YG-Y1180N, YG-Y1180M, YG-Y1180O, YG-Y1180P, YG-Y1180Q, YG-Y1180R, YG-Y1180S, YG-Y1180T, YG-Y1180U, YG-Y1180V, YG-Y1180W, YG-Y1180X, YG-Y1180Y, YG-Y1180Z, YG-Y1100, YG-Y1100A, YG-Y1100B, YG-Y1100C, YG-Y1100D, YG-Y1100E, YG-Y1100F, YG-Y1100G, YG-Y1100H, YG-Y1100I, YG-Y1100J, YG-Y1100K, YG-Y1100L, YG-Y1100M, YG-Y1100N, YG-Y1100O, YG-Y1100P, YG-Y1100Q, YG-Y1100R, YG-Y1100S, YG-Y1100T, YG-Y1100U, YG-Y1100V, YG-Y1100W, YG-Y1100X, YG-Y1100Y, YG-Y1100Z, YG-Y1140D, YG-Y1140E, YG-Y1140F, YG-Y1140G, YG-Y1140H, YG-Y1140I, YG-Y1140J, YG-Y1140K, YG-Y1140L, YG-Y1140N, YG-Y1170E, YG-Y1170F, YG-Y1170G, YG-Y1170H, YG-Y1170I, YG-Y1170J, YG-Y1170K, YG-Y1170L, YG-Y1170N, YG-Y1120L, YG-Y1120N, YG-Y1120M, YG-Y1120O, YG-Y1120P, YG-Y1120Q, YG-Y1120R, YG-Y1120S, YG-Y1120T, YG-Y1120V, YG-Y1120W, YG-Y1120W, YG-Y1120X, YG-Y1120Y, YG-Y1120Z, YG-Y1160I, YG-Y1160J, YG-Y1160K, YG-Y1160L, YG-Y1160N, YG-Y1160M, YG-Y1160O, YG-Y1160P, YG-Y1160Q, YG-Y1160R, YG-Y1160S, YG-Y1160T, YG-Y1160V, YG-Y1160U, YG-Y1160W, YG-Y1160Z, YG-Y1160Y, YG-Y1190, YG-Y1190A, YG-Y1190B, YG-Y1190C, YG-Y1190D, YG-Y1190F, YG-Y1190G, YG-Y1190H, YG-Y1200, YG-Y1200A, YG-Y1200B, YG-Y1200c, YG-Y1210, YG-Y1210A, YG-Y1210B, YG-Y1210C, YG-Y1210D, YG-Y1210E, YG-Y1210F, YG-Y1210G, YG-Y1210H, YG-Y1210I, YG-Y1210J, YG-Y1210K, YG-Y1220, YG-Y1220A, YG-Y1220B, YG-Y1220C, YG-Y1220D, YG-Y1220E, YG-Y1220F, YG-Y1220G, YG-Y1220H, YG-Y1220I, YG-Y1220J, YG-Y1220K, YG-Y1120E, YG-Y1120F, YG-Y1120G |
| Brand Name:             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Difference Description: | Except for model number, the to be certified remote control unit has identical electrical, RF, mechanical hardware and appearance. Model variations only refer to the paired toy car, which is not covered under this certification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                       |                       |
|-----------------------|-----------------------|
| Operation Frequency:  | 2412MHz to 2472MHz    |
| Data rate:            | 1Mbps                 |
| Number of channels:   | 61                    |
| Modulation Type:      | GFSK                  |
| Antenna type:         | Monopole Antenna      |
| Antenna Gain:         | -0.243 dBi            |
| Bluetooth Version:    | N/A                   |
| Hardware Version:     | N/A                   |
| Software Version:     | N/A                   |
| Power Supply:         | DC 3.0V, 16mA, 0.048W |
| Maximum Output Power: | -9.91dBm              |

#### Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

#### 3.Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2412            | 32      | 2443            |
| 2       | 2413            | 33      | 2444            |
| 3       | 2414            | 34      | 2445            |
| 4       | 2415            | 35      | 2446            |
| 5       | 2416            | 36      | 2447            |
| 6       | 2417            | 37      | 2448            |
| 7       | 2418            | 38      | 2449            |
| 8       | 2419            | 39      | 2450            |
| 9       | 2420            | 40      | 2451            |
| 10      | 2421            | 41      | 2452            |
| 11      | 2422            | 42      | 2453            |
| 12      | 2423            | 43      | 2454            |
| 13      | 2424            | 44      | 2455            |
| 14      | 2425            | 45      | 2456            |
| 15      | 2426            | 46      | 2457            |
| 16      | 2427            | 47      | 2458            |
| 17      | 2428            | 48      | 2459            |
| 18      | 2429            | 49      | 2460            |
| 19      | 2430            | 50      | 2461            |
| 20      | 2431            | 51      | 2462            |

|    |      |    |      |
|----|------|----|------|
| 21 | 2432 | 52 | 2463 |
| 22 | 2433 | 53 | 2464 |
| 23 | 2434 | 54 | 2465 |
| 24 | 2435 | 55 | 2466 |
| 25 | 2436 | 56 | 2467 |
| 26 | 2437 | 57 | 2468 |
| 27 | 2438 | 58 | 2469 |
| 28 | 2439 | 59 | 2470 |
| 29 | 2440 | 60 | 2471 |
| 30 | 2441 | 61 | 2472 |
| 31 | 2442 |    |      |

## 4.2. EUT Test Mode

|                                                                          |                         |
|--------------------------------------------------------------------------|-------------------------|
| TM1                                                                      | TX mode                 |
| Test software Version                                                    | Test program: N/A       |
| Frequency                                                                | 2412MHz,2441MHz,2472MHz |
| Power Setting of Softwave                                                | 0                       |
| Note:All above mode have been measurement, only worst data was reported. |                         |

## 4.3. Auxiliary Equipment Used During Test

| No. | Equipment | Manufacturer | Model No.           | Serial No. | Remark |
|-----|-----------|--------------|---------------------|------------|--------|
| 1   | HP laptop | HP           | DESKTOP-G3N<br>DKR3 | N/A        | N/A    |

## 5. EQUIPMENTS LIST FOR ALL TEST ITEMS

| <b>6dB Bandwidth</b><br><b>Maximum Conducted Output Power</b><br><b>Power Spectral Density</b><br><b>Emissions in non-restricted frequency bands</b> |                           |              |           |            |            |               |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------|-----------|------------|------------|---------------|
| No                                                                                                                                                   | Test Equipment            | Manufacturer | Model No  | Serial No  | Cal. Date  | Cal. Due Date |
| 1                                                                                                                                                    | spectrum analyzer         | Agilent      | N9020A    | MY51287427 | 2026-07-07 | 2027-07-06    |
| 2                                                                                                                                                    | RF automatic control unit | TST          | CBOX-Full | 2752539    | 2026-06-25 | 2027-06-24    |

| <b>Band edge emissions (Radiated)</b><br><b>Emissions in frequency bands (above 1GHz)</b> |                             |              |                 |            |            |               |
|-------------------------------------------------------------------------------------------|-----------------------------|--------------|-----------------|------------|------------|---------------|
| No                                                                                        | Test Equipment              | Manufacturer | Model No        | Serial No  | Cal. Date  | Cal. Due Date |
| 1                                                                                         | preamplifier                | QUANJUDA     | LNA18           | 2503130032 | 2026-07-07 | 2027-07-06    |
| 2                                                                                         | High frequency antenna      | Schwarzbeck  | 9120D-1141      | 03260      | 2025-10-19 | 2026-10-18    |
| 3                                                                                         | High-frequency horn antenna | Schwarzbeck  | HA-018040L      | 25098408   | 2025-10-31 | 2026-10-30    |
| 4                                                                                         | preamplifier                | HCT          | HC180400-50 G25 | 25098401   | 2025-09-19 | 2026-09-18    |
| 5                                                                                         | spectrum analyzer           | R&S          | FSV40           | 101373     | 2025-12-24 | 2026-12-23    |

| <b>Emissions in frequency bands (below 1GHz)</b> |                        |              |          |            |            |               |
|--------------------------------------------------|------------------------|--------------|----------|------------|------------|---------------|
| No                                               | Test Equipment         | Manufacturer | Model No | Serial No  | Cal. Date  | Cal. Due Date |
| 1                                                | EMI test receiver ESCI | R&S          | ESPI-7   | 100754     | 2026-03-17 | 2028-03-16    |
| 2                                                | Log periodic antenna   | SCHWARZBECK  | VULB9163 | 01790      | 2025-10-24 | 2026-10-23    |
| 3                                                | preamplifier           | SCHWARZBECK  | 8447D    | 2944A08081 | 2026-03-17 | 2028-03-16    |

## 6. TEST RESULTS

### 6.1. Antenna requirement

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

#### 6.1.1. Conclusion:

The EUT antenna is Monopole Antenna.It conforms to the standard requirements.



## 6.2. 6dB Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(a)(2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test Limit:       | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Procedure:        | <p>11.8.1 Option 1</p> <p>The steps for the first option are as follows:</p> <ul style="list-style-type: none"> <li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</li> <li>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.</li> </ul> <p>11.8.2 Option 2</p> <p>The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW <math>\geq 3 \times \text{RBW}</math>, and peak detector with maximum hold) is implemented by the instrumentation function.</p> <p>When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be <math>\geq 6</math> dB.</p> <p>11.8.1 Option 1</p> <p>The steps for the first option are as follows:</p> <ul style="list-style-type: none"> <li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</li> <li>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> <li>f) Allow the trace to stabilize.</li> <li>g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.</li> </ul> |

### 11.8.2 Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW  $\geq 3 \times$  RBW, and peak detector with maximum hold) is implemented by the instrumentation function.

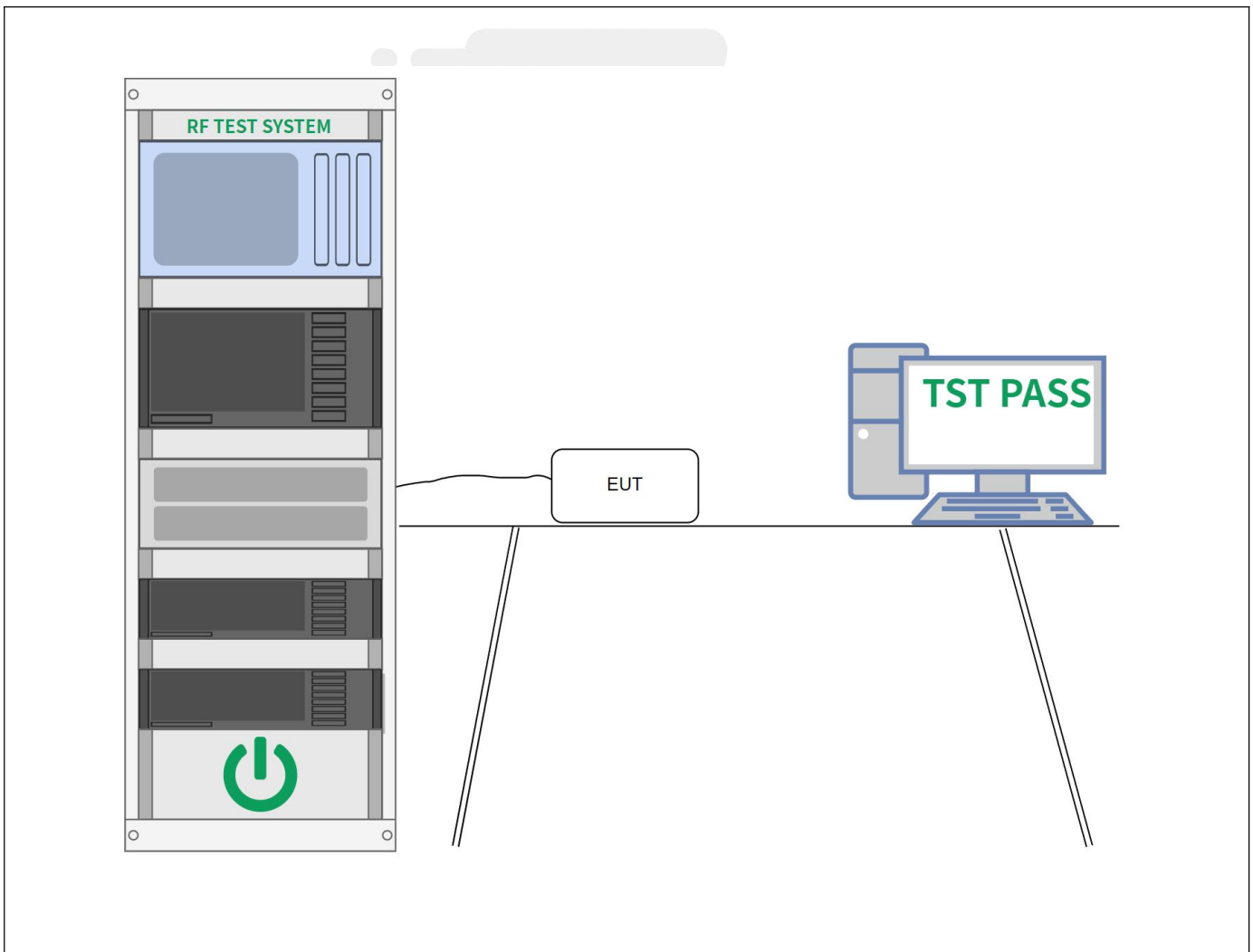
When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq 6$  dB.

### 6.2.1. EUT Operation

Operating Environment:

|                  |         |           |        |                       |         |
|------------------|---------|-----------|--------|-----------------------|---------|
| Temperature:     | 22.9 °C | Humidity: | 54.6 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:   | TM1     |           |        |                       |         |
| Final test mode: | TM1     |           |        |                       |         |

### 6.2.2. Test Setup Diagram:



### 6.2.3. Test Data

Please Refer to Appendix for Details.

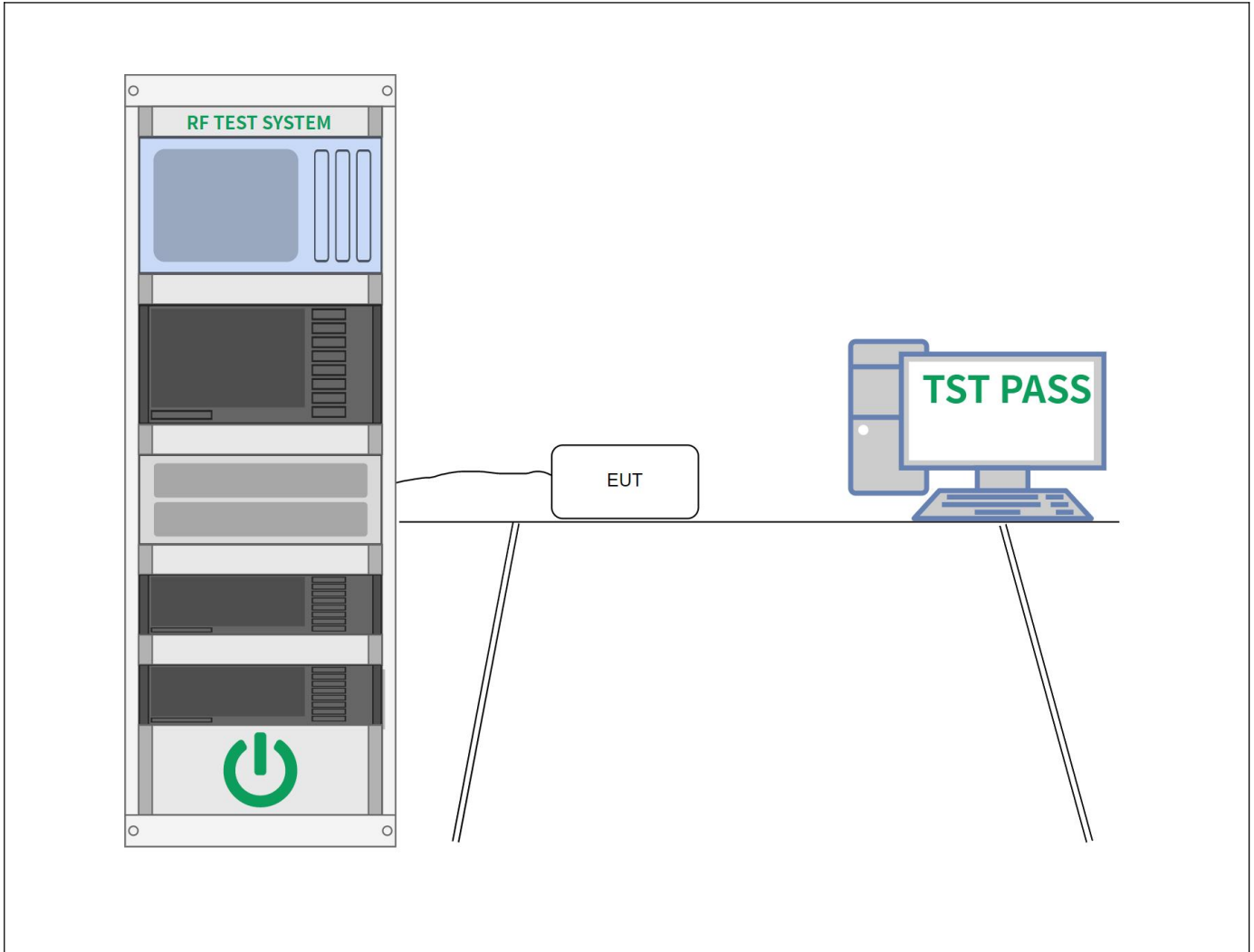
### 6.3. Maximum Conducted Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(b)(3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Limit:       | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.9.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Procedure:        | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.9.1 Maximum peak conducted output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

#### 6.3.1. EUT Operation

|                        |         |           |        |                       |         |
|------------------------|---------|-----------|--------|-----------------------|---------|
| Operating Environment: |         |           |        |                       |         |
| Temperature:           | 23.6 °C | Humidity: | 47.3 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | TM1     |           |        |                       |         |
| Final test mode:       | TM1     |           |        |                       |         |

### 6.3.2. Test Setup Diagram:



### 6.3.3. Test Data

Please Refer to Appendix for Details.

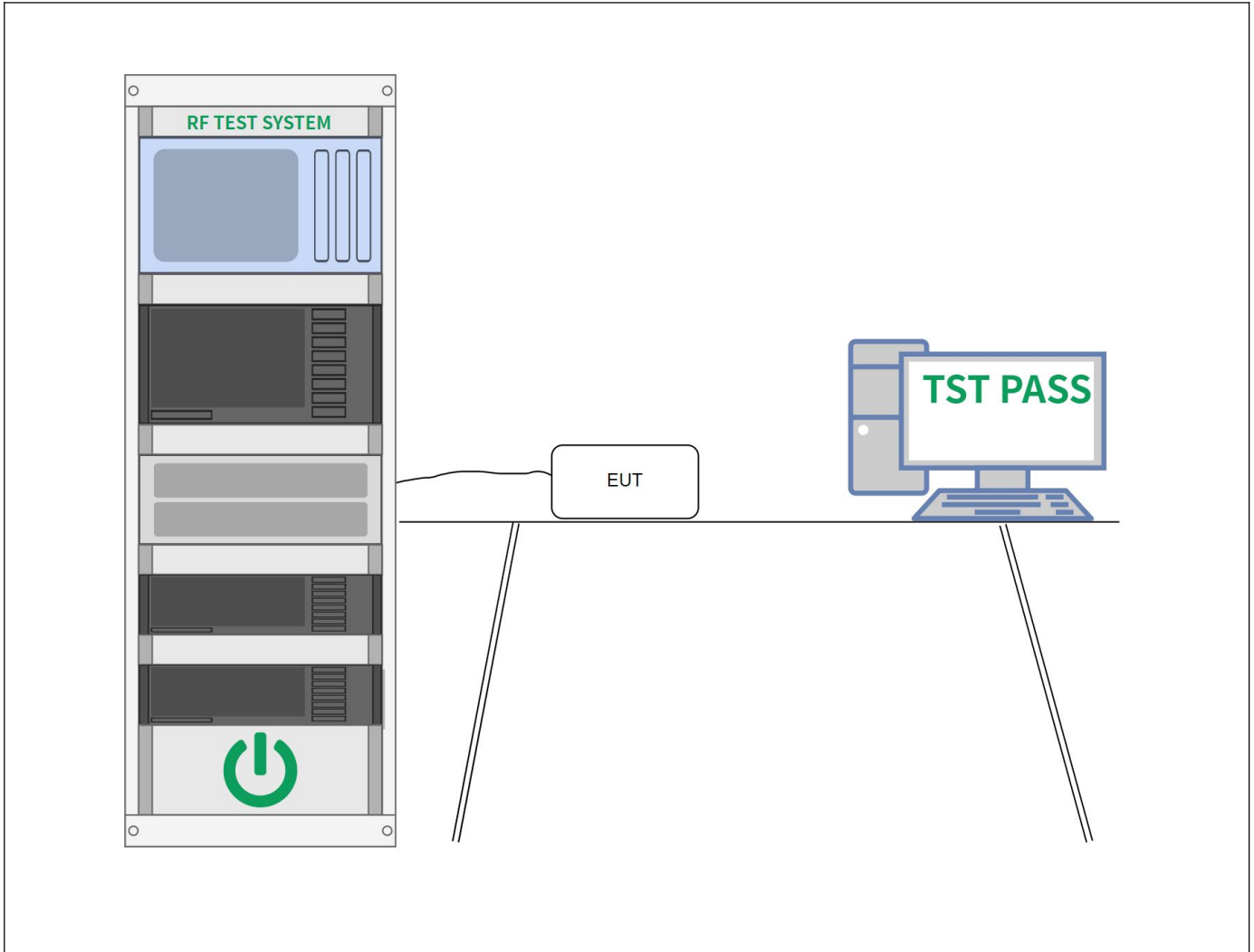
## 6.4. Power Spectral Density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:       | Refer to 47 CFR 15.247(e), 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10                                                                                                                                                                                                                                                                                                                                                                                                       |
| Procedure:        | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 11.10, Maximum power spectral density level in the fundamental emission                                                                                                                                                                                                                                                                                                                                     |

### 6.4.1. EUT Operation

|                        |         |           |        |                       |         |
|------------------------|---------|-----------|--------|-----------------------|---------|
| Operating Environment: |         |           |        |                       |         |
| Temperature:           | 22.9 °C | Humidity: | 53.2 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | TM1     |           |        |                       |         |
| Final test mode:       | TM1     |           |        |                       |         |

#### 6.4.2. Test Setup Diagram:



#### 6.4.3. Test Data

Please Refer to Appendix for Details.

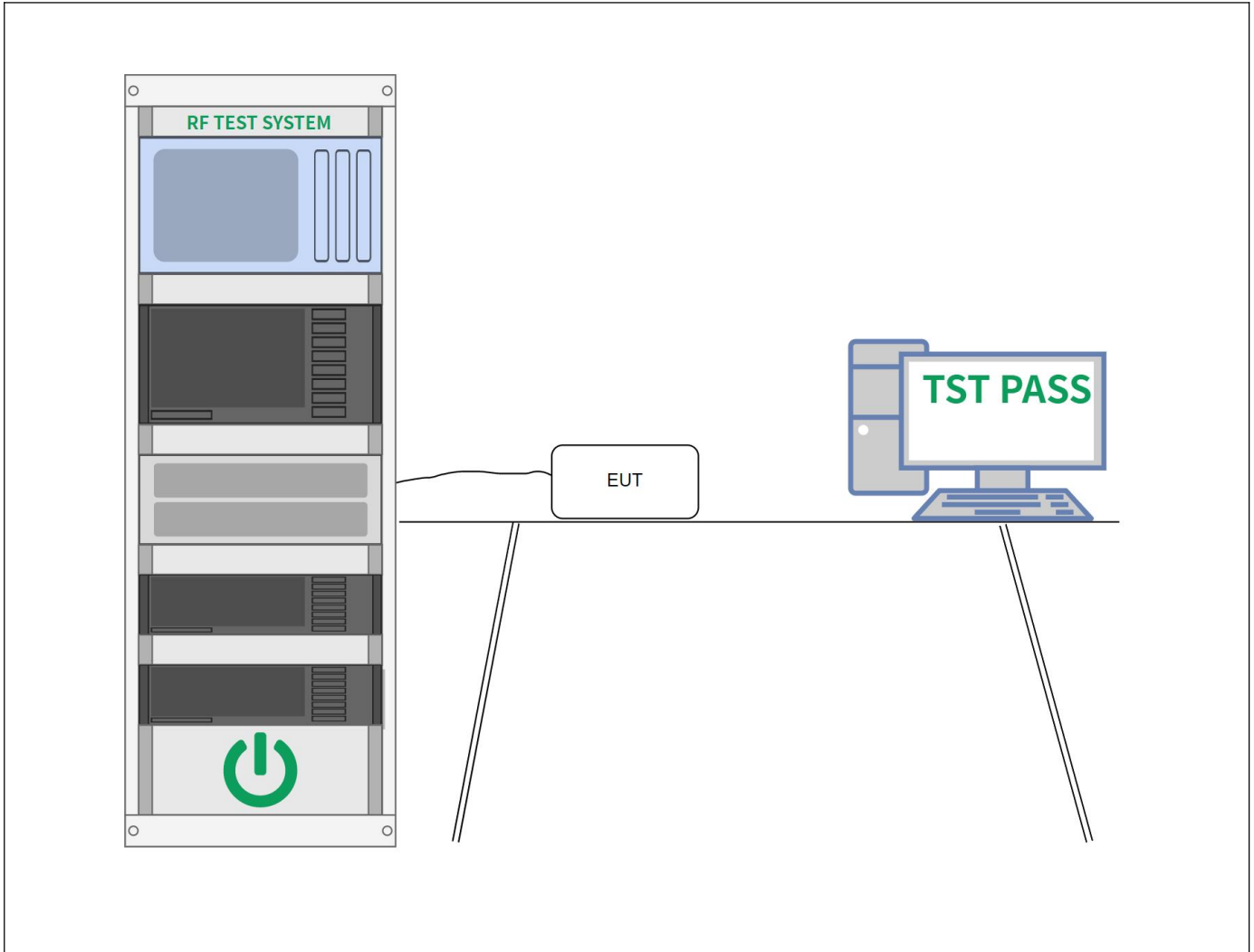
## 6.5. Emissions in non-restricted frequency bands

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR 15.247(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Limit:       | Refer to 47 CFR 15.247(d), 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. |
| Test Method:      | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Procedure:        | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024<br>Section 11.11.1, Section 11.11.2, Section 11.11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### 6.5.1. EUT Operation

|                        |         |           |        |                       |         |
|------------------------|---------|-----------|--------|-----------------------|---------|
| Operating Environment: |         |           |        |                       |         |
| Temperature:           | 22.3 °C | Humidity: | 50.5 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | TM1     |           |        |                       |         |
| Final test mode:       | TM1     |           |        |                       |         |

### 6.5.2. Test Setup Diagram:



### 6.5.3. Test Data

Please Refer to Appendix for Details.

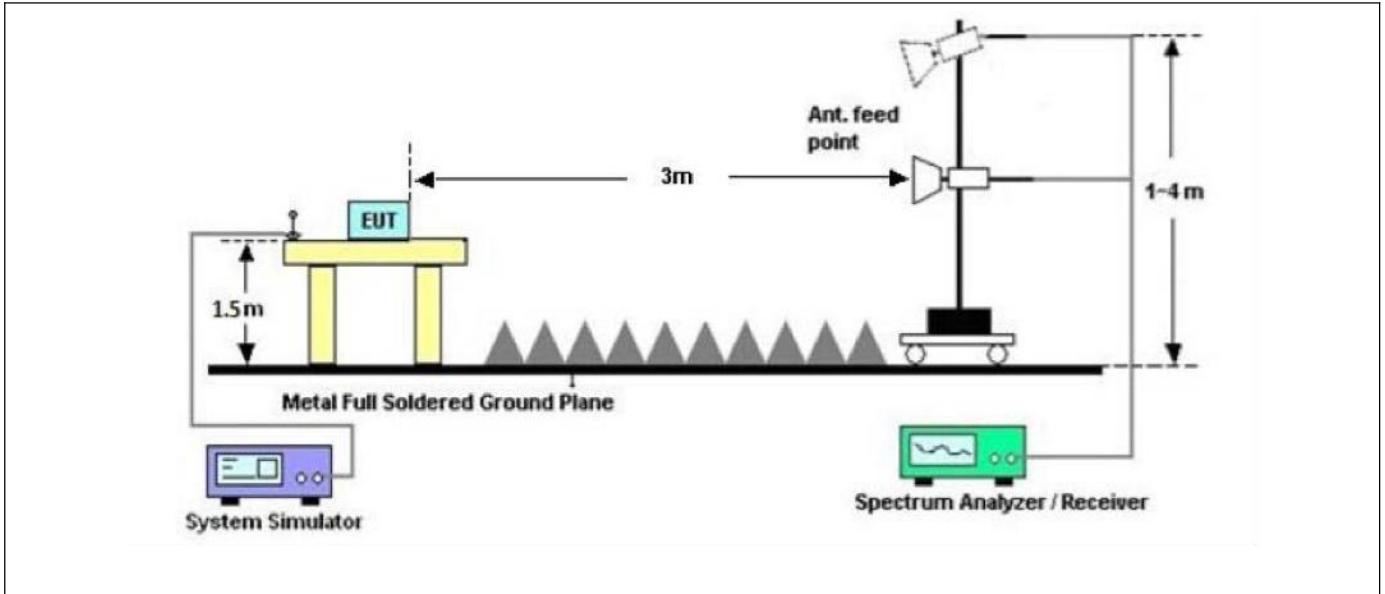
## 6.6. Band edge emissions (Radiated)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to 47 CFR 15.247(d), 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 Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)                                                                                                                                                                                                         | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                             | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                             | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                              | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                   | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                  | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                 | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                               | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10                                                                                                                                       |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.10.5.2                                                                                                                                   |                                   |                               |

### 6.6.1. EUT Operation

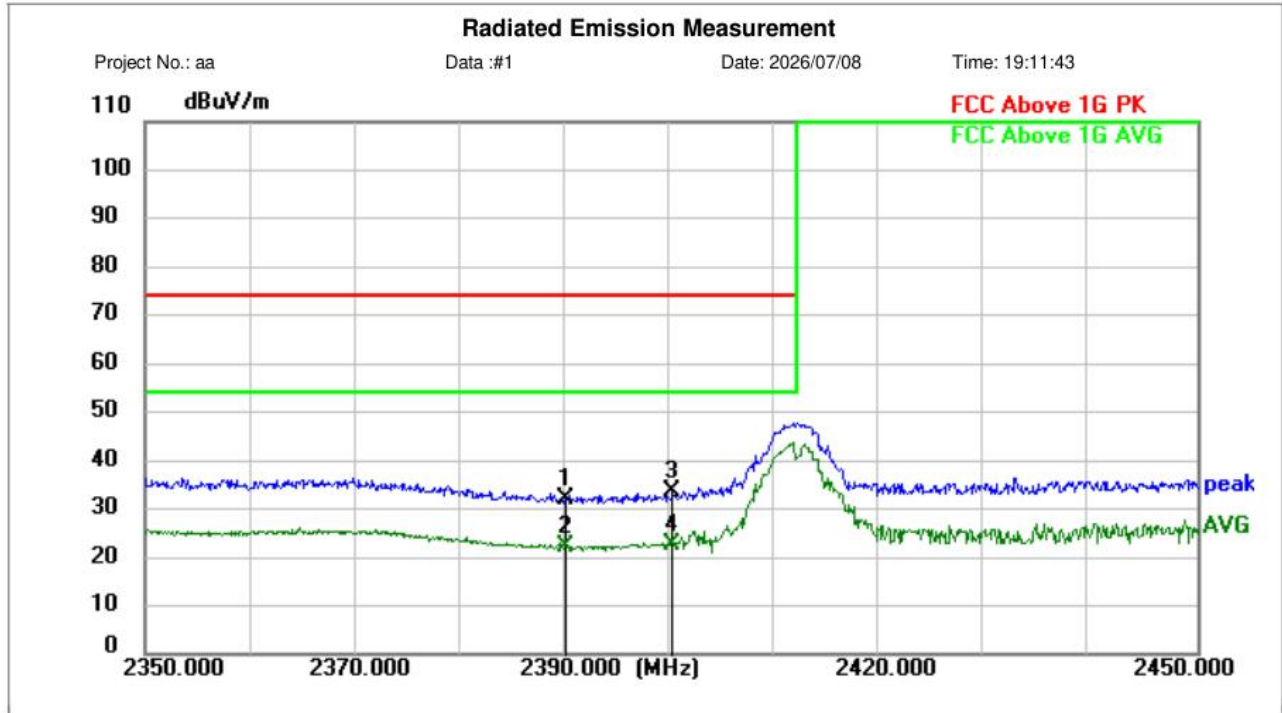
|                        |         |                       |         |
|------------------------|---------|-----------------------|---------|
| Operating Environment: |         |                       |         |
| Temperature:           | 23.4 °C | Humidity:             | 47.1 %  |
|                        |         | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | TM1     |                       |         |
| Final test mode:       | TM1     |                       |         |

### 6.6.2. Test Setup Diagram:



### 6.6.3. Test Data

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Site LAB

Limit: FCC Above 1G PK

EUT:

M/N: 2412

Mode:

Note:

Polarization: **Horizontal**

Power:

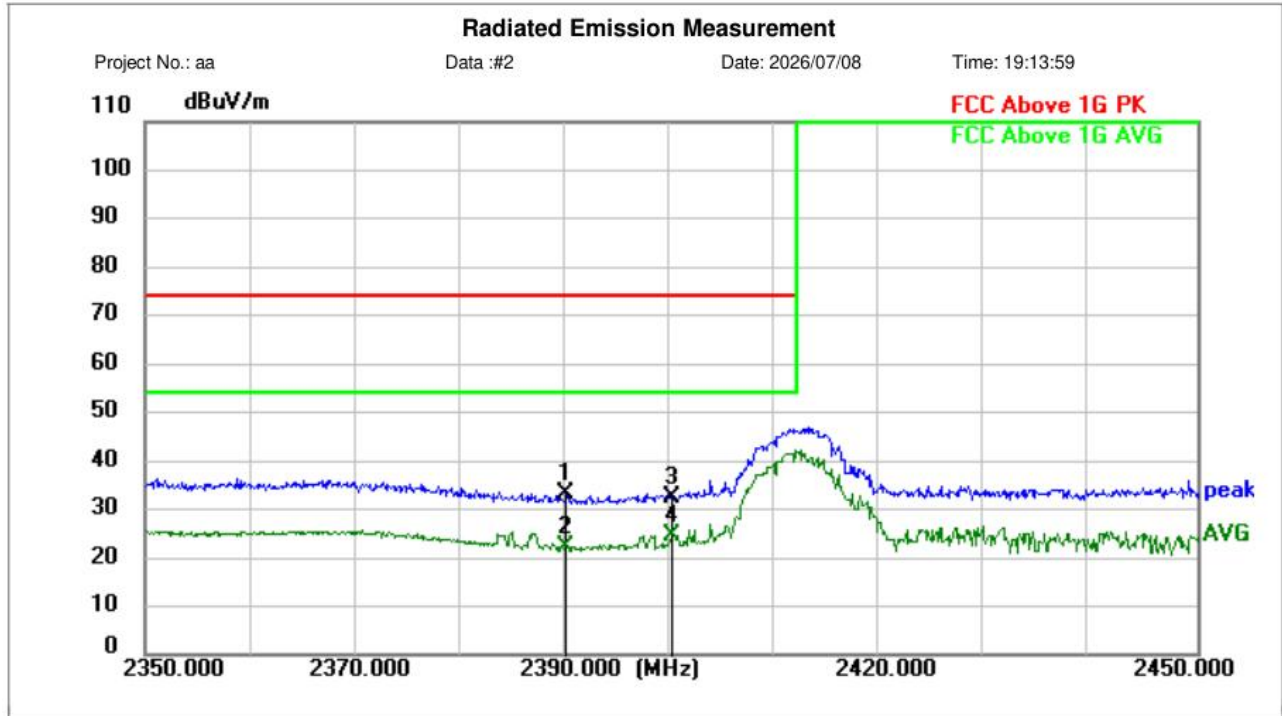
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2390.0000       | 57.11          | -25.27        | 31.84          | 74.00          | -42.16      | peak     | 150         | 360            | P   |        |
| 2   | 2390.0000       | 47.34          | -25.27        | 22.07          | 54.00          | -31.93      | AVG      | 150         | 360            | P   |        |
| 3   | 2400.0000       | 59.45          | -25.87        | 33.58          | 74.00          | -40.42      | peak     | 150         | 360            | P   |        |
| 4 * | 2400.0000       | 48.37          | -25.87        | 22.50          | 54.00          | -31.50      | AVG      | 150         | 360            | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Above 1G PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

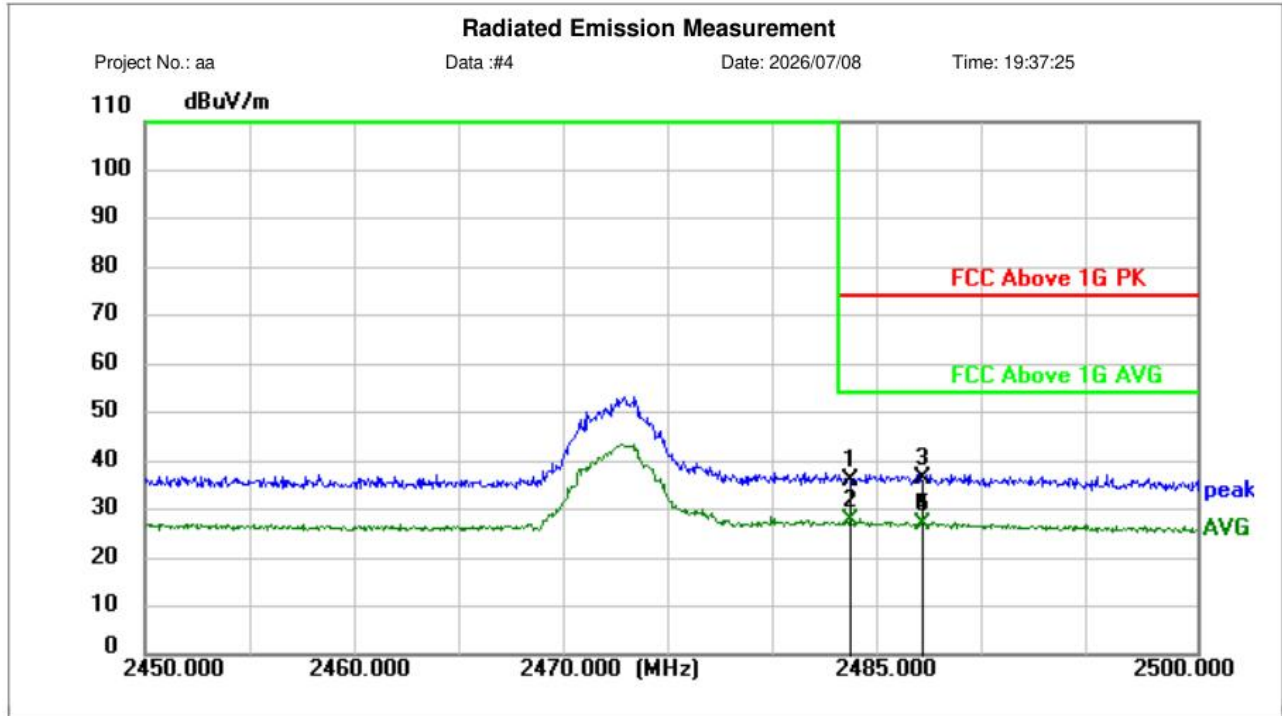
M/N: 2412

Mode:

Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2390.0000       | 55.85          | -22.71        | 33.14          | 74.00          | -40.86      | peak     | 150         | 360            | P   |        |
| 2   | 2390.0000       | 44.96          | -22.71        | 22.25          | 54.00          | -31.75      | AVG      | 150         | 360            | P   |        |
| 3   | 2400.0000       | 55.14          | -22.67        | 32.47          | 74.00          | -41.53      | peak     | 150         | 360            | P   |        |
| 4 * | 2400.0000       | 47.40          | -22.67        | 24.73          | 54.00          | -29.27      | AVG      | 150         | 360            | P   |        |

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



Site LAB

Limit: FCC Above 1G PK

EUT:

M/N: 2472

Mode:

Note:

Polarization: **Horizontal**

Power:

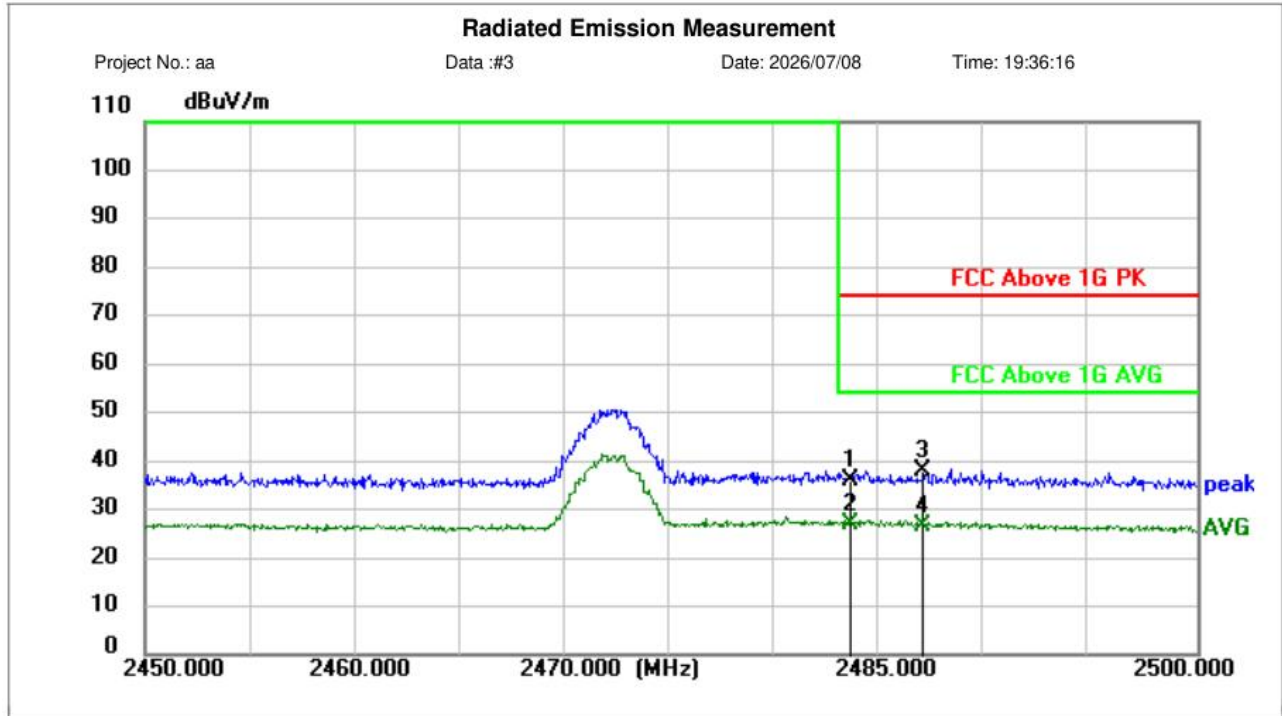
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2483.5000       | 58.68          | -22.81        | 35.87          | 74.00          | -38.13      | peak     | 150         | 360            | P   |        |
| 2 * | 2483.5000       | 50.34          | -22.81        | 27.53          | 54.00          | -26.47      | AVG      | 150         | 360            | P   |        |
| 3   | 2487.0000       | 59.24          | -22.78        | 36.46          | 74.00          | -37.54      | peak     | 150         | 360            | P   |        |
| 4   | 2487.0000       | 49.62          | -22.78        | 26.84          | 54.00          | -27.16      | AVG      | 150         | 360            | P   |        |
| 5   | 2487.0000       | 49.62          | -22.78        | 26.84          | 54.00          | -27.16      | AVG      | 150         | 360            | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Above 1G PK

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

M/N: 2472

Mode:

Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2483.5000       | 58.10          | -22.27        | 35.83          | 74.00          | -38.17      | peak     | 150         | 360            | P   |        |
| 2 * | 2483.5000       | 49.29          | -22.27        | 27.02          | 54.00          | -26.98      | AVG      | 150         | 360            | P   |        |
| 3   | 2487.0000       | 60.30          | -22.26        | 38.04          | 74.00          | -35.96      | peak     | 150         | 360            | P   |        |
| 4   | 2487.0000       | 48.94          | -22.26        | 26.68          | 54.00          | -27.32      | AVG      | 150         | 360            | P   |        |

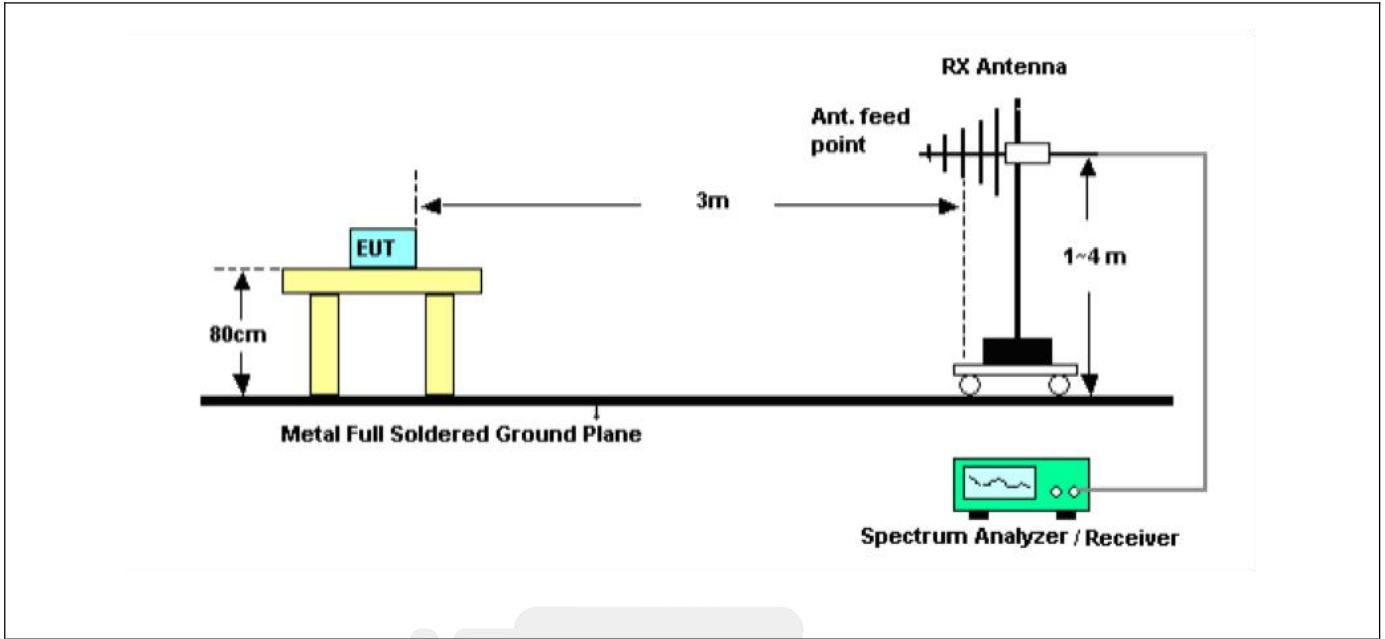
## 6.7. Emissions in frequency bands (below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to 47 CFR 15.247(d), 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 Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)                                                                                                                                                                                                         | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                             | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                             | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                              | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                   | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                  | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                 | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                               | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                      |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                      |                                   |                               |

### 6.7.1. EUT Operation

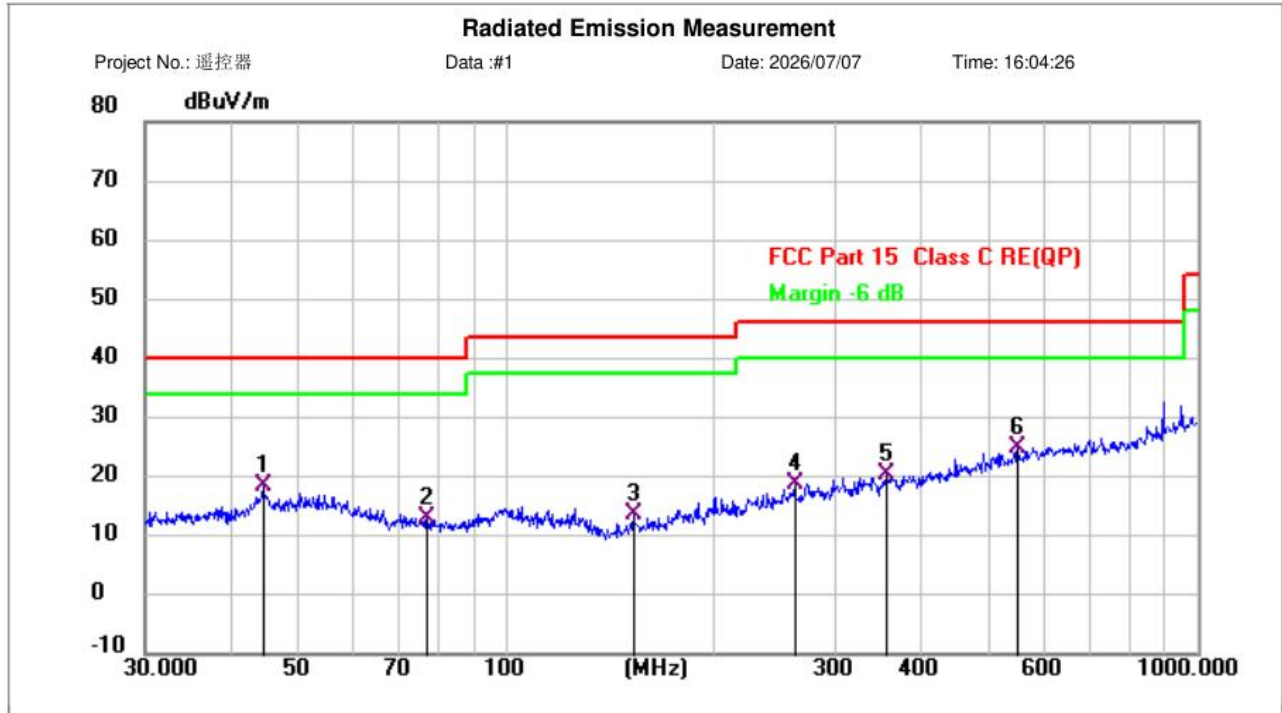
|                        |         |                       |          |
|------------------------|---------|-----------------------|----------|
| Operating Environment: |         |                       |          |
| Temperature:           | 23.4 °C | Humidity:             | 55.5 %   |
|                        |         | Atmospheric Pressure: | 99.9 kPa |
| Pre test mode:         | TM1     |                       |          |
| Final test mode:       | TM1     |                       |          |

### 6.7.2. Test Setup Diagram:



### 6.7.3. Test Data

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Site LAB

Limit: FCC Part 15 Class C RE(QP)

EUT:

M/N:

Mode:

Note:

Polarization: **Horizontal**

Power:

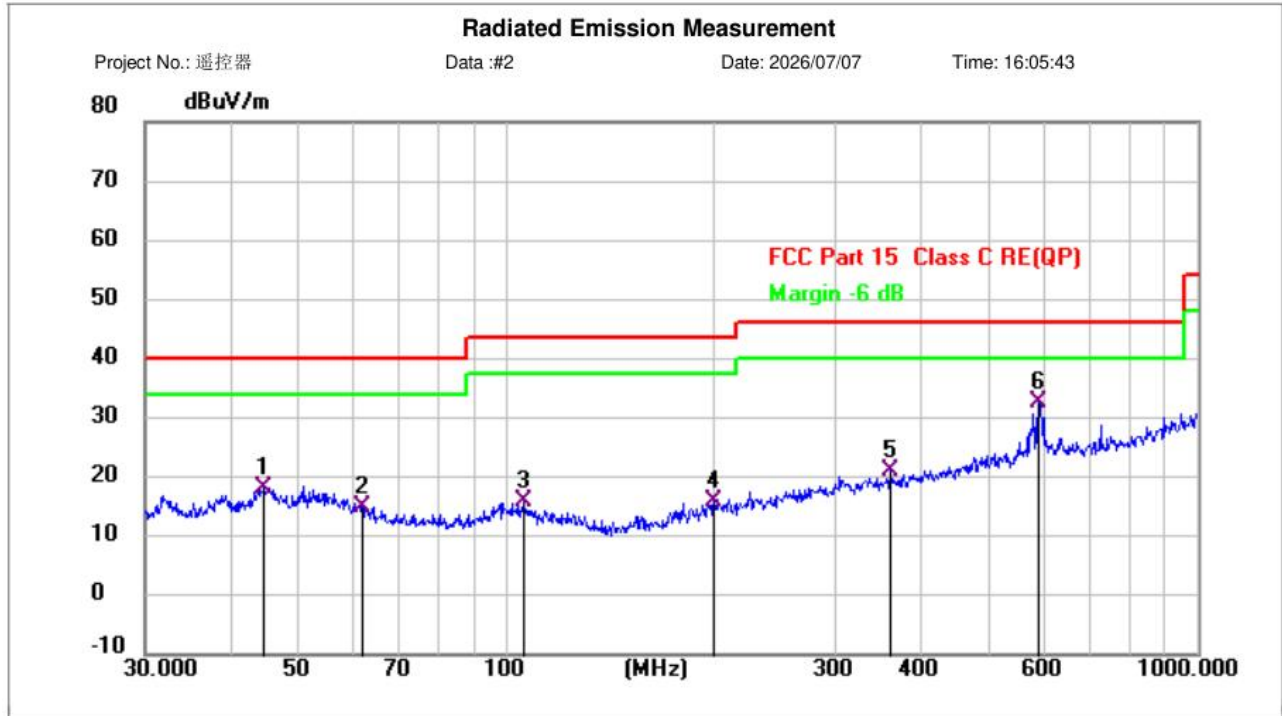
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 44.4308         | 29.31          | -10.91        | 18.40          | 40.00          | -21.60      | QP       | 100         | 360            | P   |        |
| 2   | 76.7808         | 26.88          | -13.78        | 13.10          | 40.00          | -26.90      | QP       | 100         | 360            | P   |        |
| 3   | 152.6641        | 27.58          | -14.04        | 13.54          | 43.50          | -29.96      | QP       | 100         | 360            | P   |        |
| 4   | 261.9753        | 27.61          | -8.98         | 18.63          | 46.00          | -27.37      | QP       | 100         | 360            | P   |        |
| 5   | 354.1831        | 27.00          | -6.69         | 20.31          | 46.00          | -25.69      | QP       | 100         | 360            | P   |        |
| 6 * | 549.0195        | 27.34          | -2.44         | 24.90          | 46.00          | -21.10      | QP       | 100         | 360            | P   |        |

TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Site LAB

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Part 15 Class C RE(QP)

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

M/N:

Mode:

Note:

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 44.5868         | 29.08          | -10.89        | 18.19          | 40.00          | -21.81      | QP       | 100         | 0              | P   |        |
| 2   | 61.7781         | 26.43          | -11.42        | 15.01          | 40.00          | -24.99      | QP       | 100         | 0              | P   |        |
| 3   | 106.3850        | 27.58          | -11.75        | 15.83          | 43.50          | -27.67      | QP       | 100         | 0              | P   |        |
| 4   | 199.2855        | 27.09          | -11.15        | 15.94          | 43.50          | -27.56      | QP       | 100         | 0              | P   |        |
| 5   | 360.4476        | 27.48          | -6.58         | 20.90          | 46.00          | -25.10      | QP       | 100         | 0              | P   |        |
| 6 * | 590.9737        | 34.24          | -1.62         | 32.62          | 46.00          | -13.38      | QP       | 100         | 0              | P   |        |

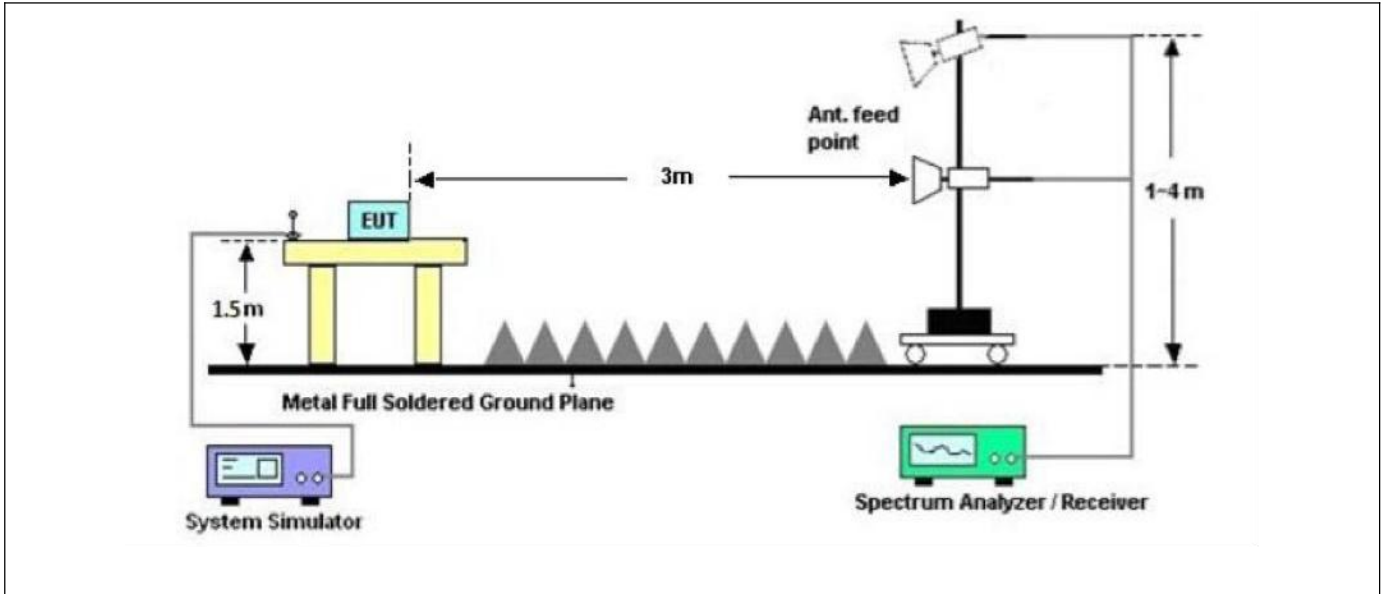
## 6.8. Emissions in frequency bands (above 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Refer to 47 CFR 15.247(d), 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 Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Frequency (MHz)                                                                                                                                                                                                         | Field strength (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                             | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                             | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                              | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                   | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                  | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                 | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                               | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                         |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                      |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5.4                                                                                                                                      |                                   |                               |

### 6.8.1. EUT Operation

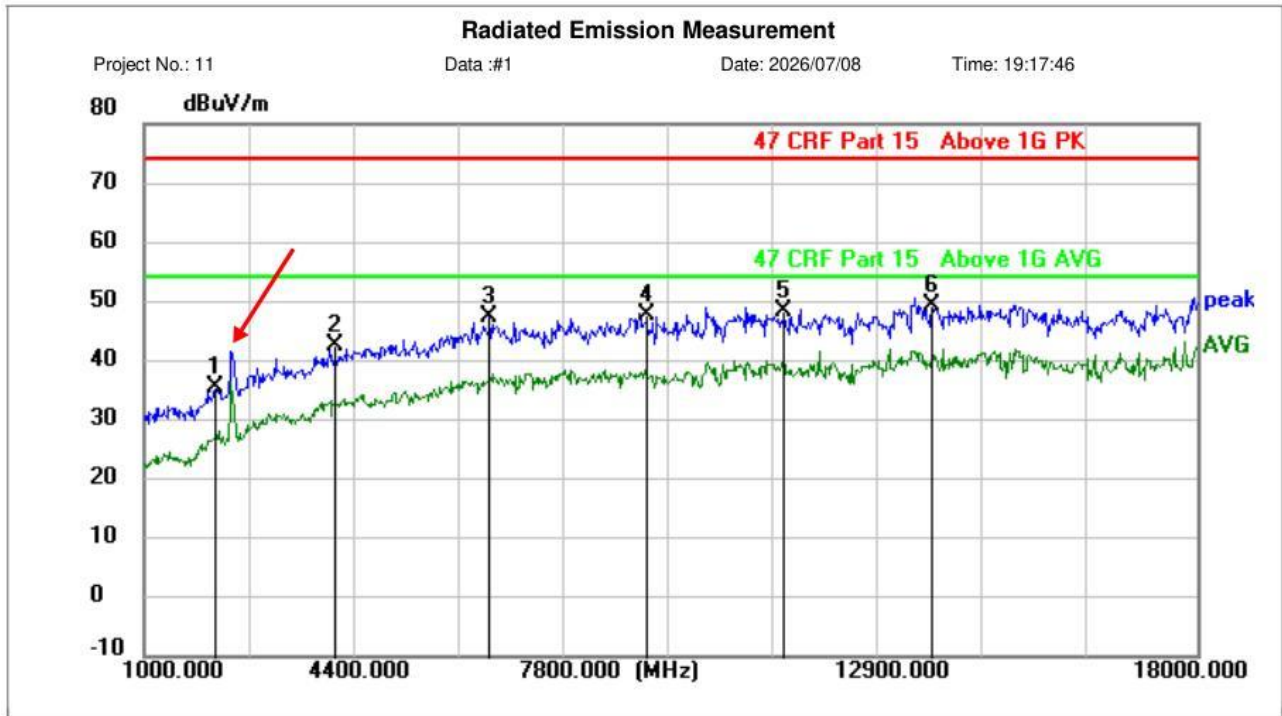
|                        |         |                       |         |
|------------------------|---------|-----------------------|---------|
| Operating Environment: |         |                       |         |
| Temperature:           | 22.4 °C | Humidity:             | 55.7 %  |
|                        |         | Atmospheric Pressure: | 101 kPa |
| Pre test mode:         | TM1     |                       |         |
| Final test mode:       | TM1     |                       |         |

### 6.8.2. Test Setup Diagram:



### 6.8.3. Test Data

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2412

Mode:

Note:

Polarization: **Horizontal**

Power:

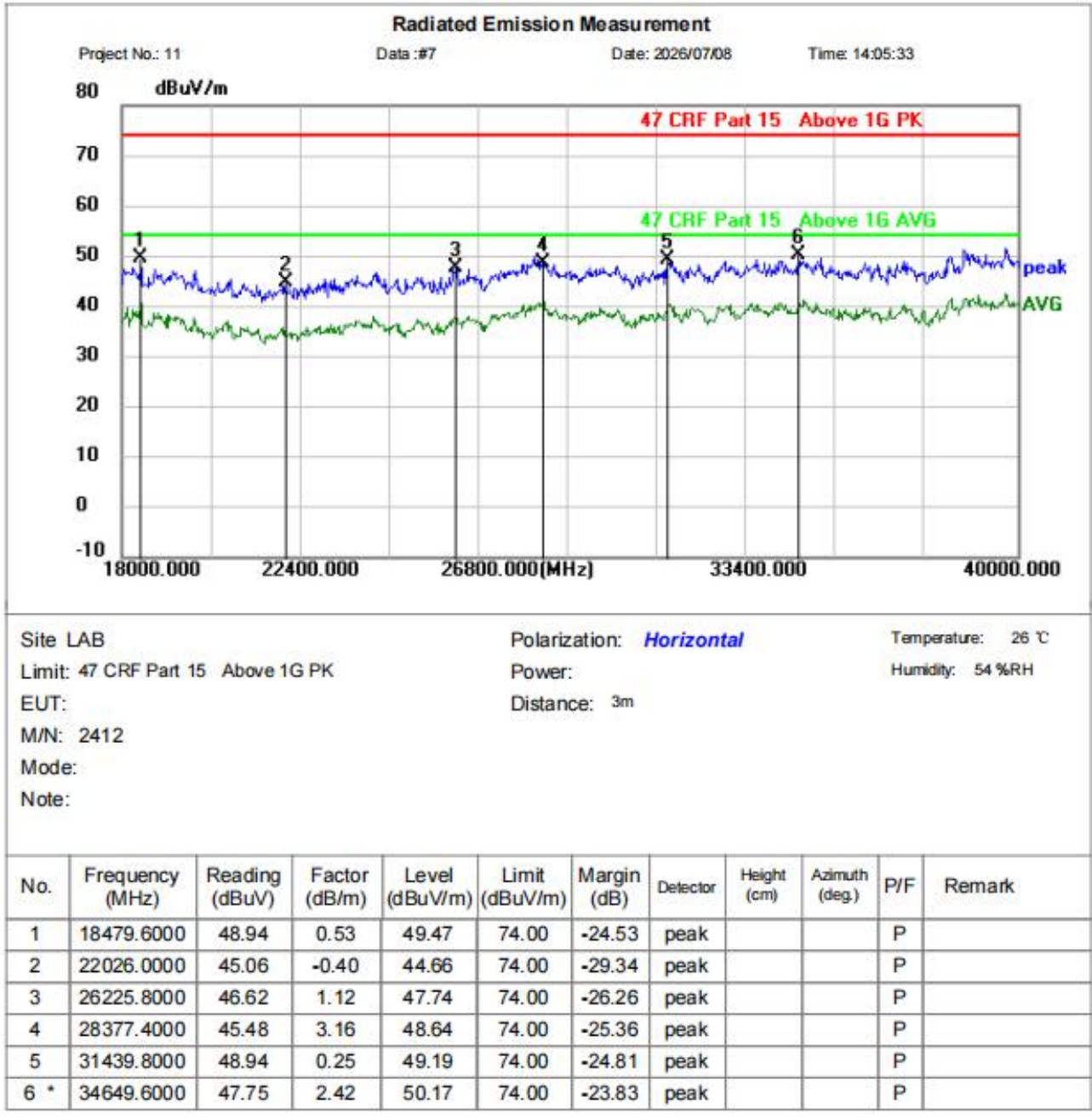
Distance: 3m

Temperature: 26 °C

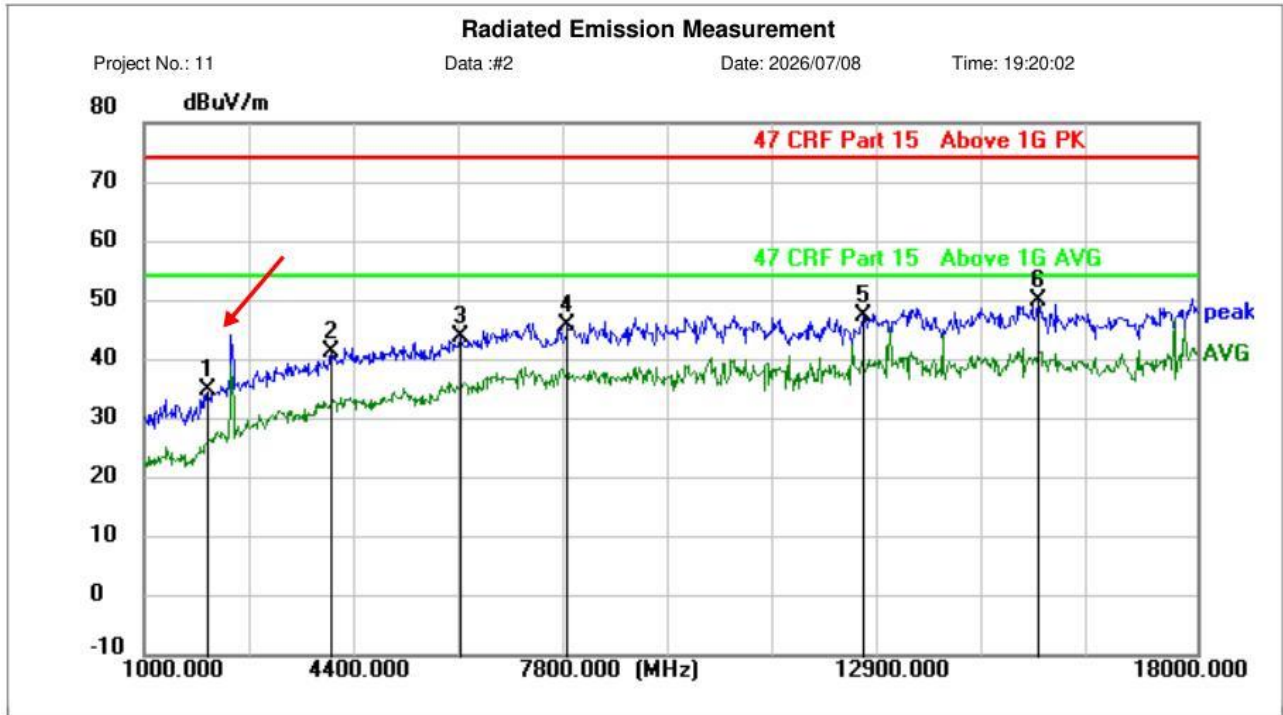
Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2156.0000       | 58.48          | -23.08        | 35.40          | 74.00          | -38.60      | peak     | 150         | 360            | P   |        |
| 2   | 4104.2000       | 61.34          | -18.91        | 42.43          | 74.00          | -31.57      | peak     | 150         | 360            | P   |        |
| 3   | 6560.7000       | 61.60          | -14.12        | 47.48          | 74.00          | -26.52      | peak     | 150         | 360            | P   |        |
| 4   | 9120.9000       | 56.97          | -9.26         | 47.71          | 74.00          | -26.29      | peak     | 150         | 360            | P   |        |
| 5   | 11347.9000      | 55.14          | -6.92         | 48.22          | 74.00          | -25.78      | peak     | 150         | 360            | P   |        |
| 6 * | 13748.3000      | 58.76          | -9.45         | 49.31          | 74.00          | -24.69      | peak     | 150         | 360            | P   |        |

Node:The high-level peak indicated by the arrow in the plot is the fundamental operating frequency, which is not a spurious emission. Spurious emission limits are not applicable to the fundamental frequency. All other marked peaks are spurious components.



TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2412

Mode:

Note:

Polarization: **Vertical**

Power:

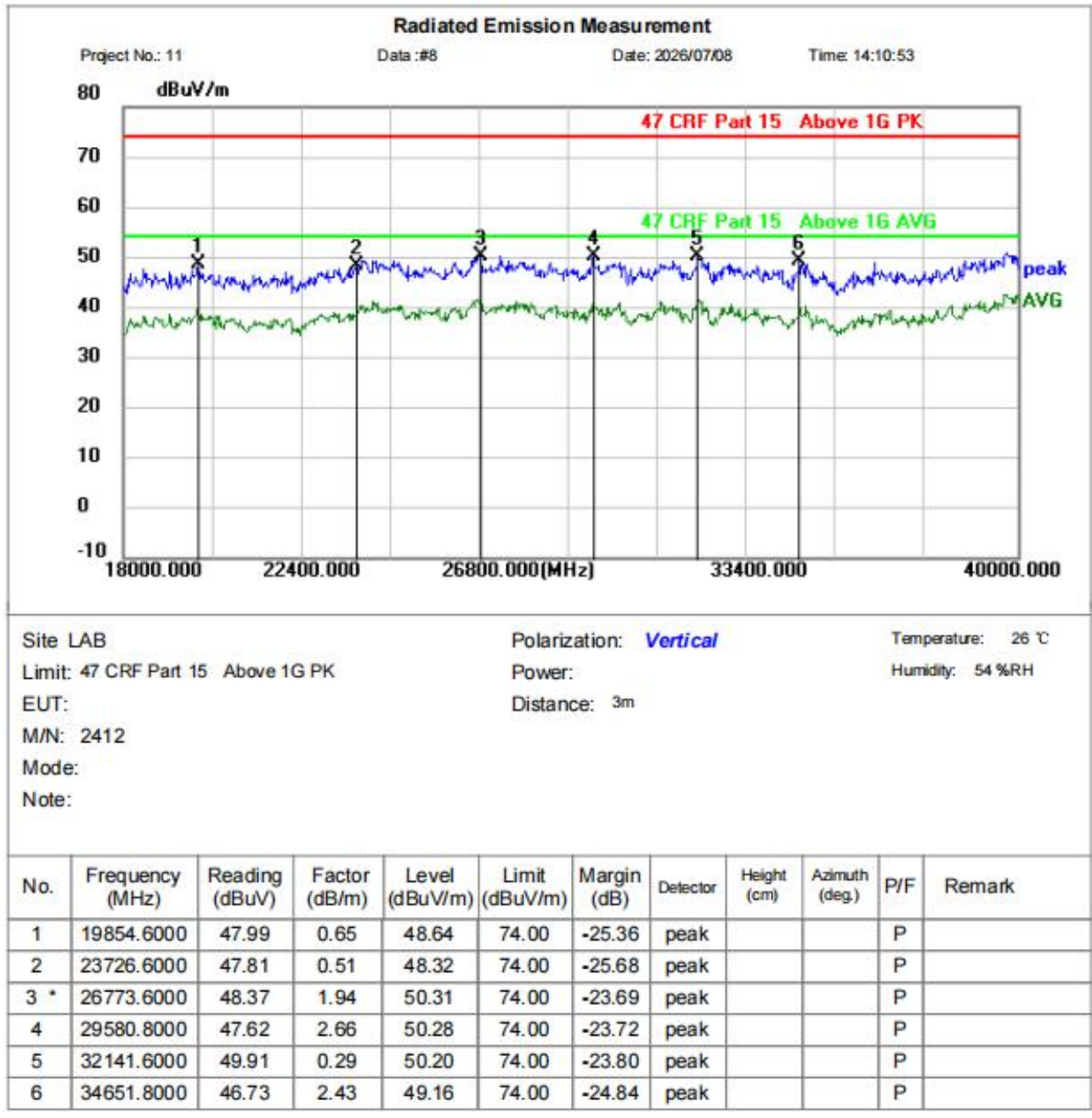
Distance: 3m

Temperature: 26 °C

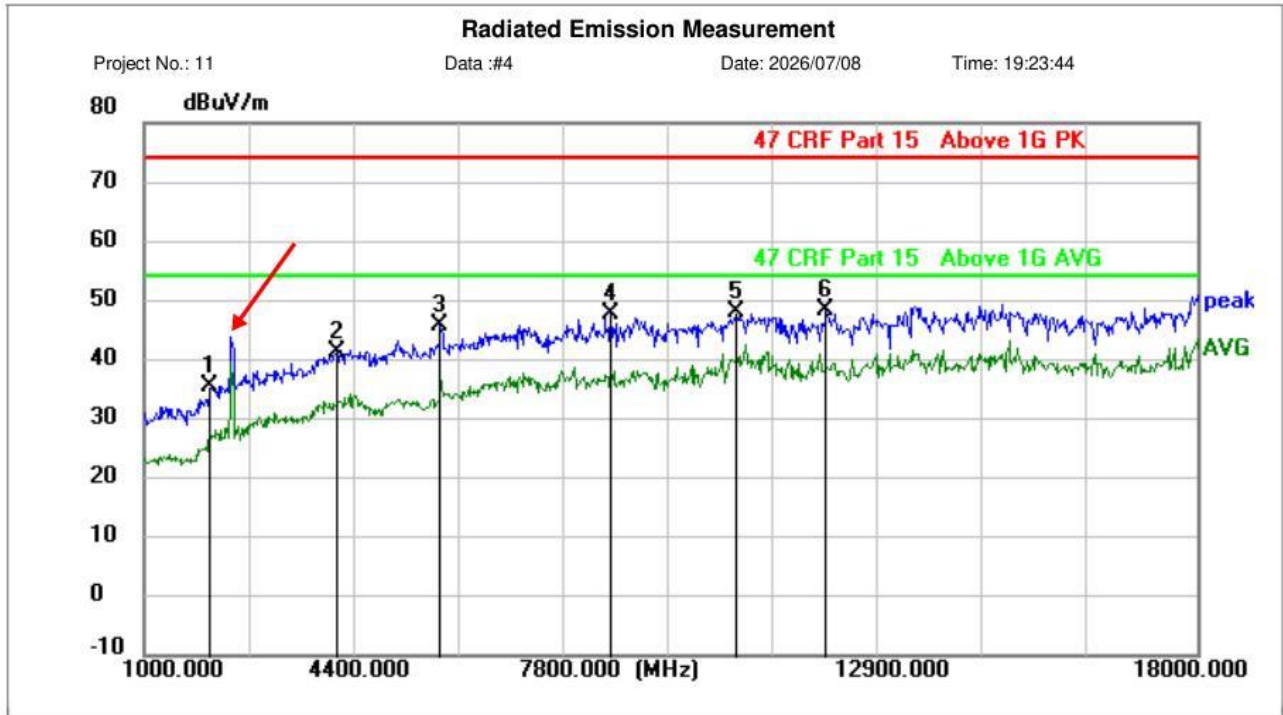
Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2037.0000       | 58.70          | -23.80        | 34.90          | 74.00          | -39.10      | peak     | 150         | 360            | P   |        |
| 2   | 4032.8000       | 60.34          | -19.02        | 41.32          | 74.00          | -32.68      | peak     | 150         | 360            | P   |        |
| 3   | 6106.8000       | 59.67          | -15.98        | 43.69          | 74.00          | -30.31      | peak     | 150         | 360            | P   |        |
| 4   | 7835.7000       | 58.42          | -12.52        | 45.90          | 74.00          | -28.10      | peak     | 150         | 360            | P   |        |
| 5   | 12616.1000      | 56.07          | -8.54         | 47.53          | 74.00          | -26.47      | peak     | 150         | 360            | P   |        |
| 6 * | 15443.2000      | 58.82          | -8.93         | 49.89          | 74.00          | -24.11      | peak     | 150         | 360            | P   |        |

Node: The high-level peak indicated by the arrow in the plot is the fundamental operating frequency, which is not a spurious emission. Spurious emission limits are not applicable to the fundamental frequency. All other marked peaks are spurious components.



TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2441

Mode:

Note:

Polarization: **Horizontal**

Power:

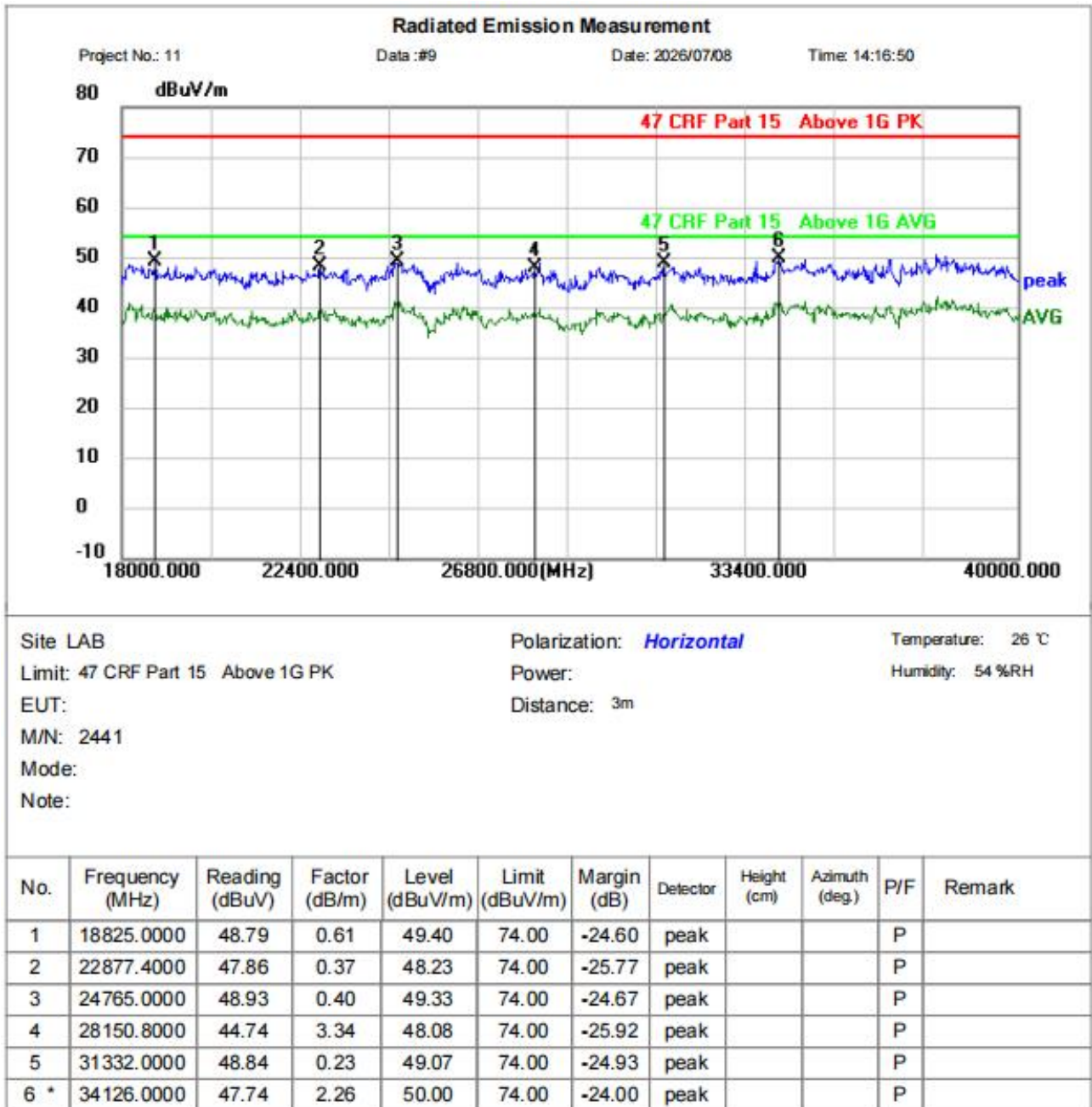
Distance: 3m

Temperature: 26 °C

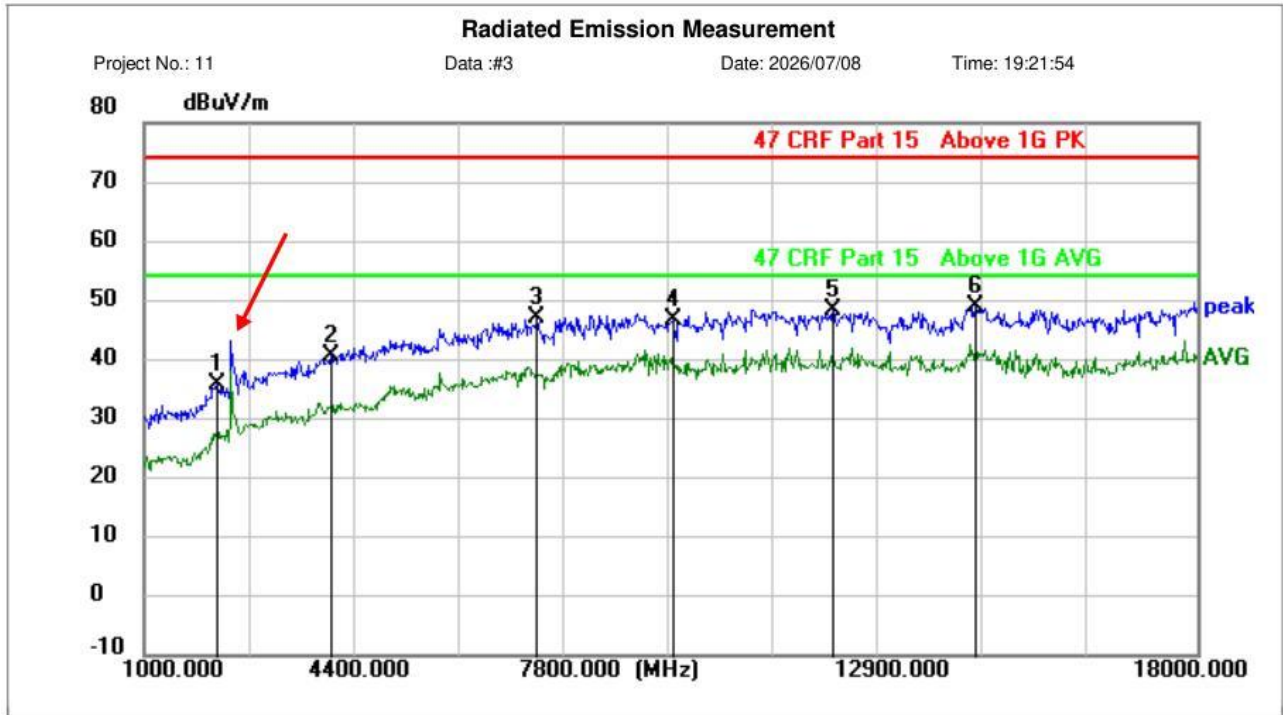
Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2069.3000       | 59.08          | -23.48        | 35.60          | 74.00          | -38.40      | peak     | 150         | 360            | P   |        |
| 2   | 4102.5000       | 60.29          | -18.92        | 41.37          | 74.00          | -32.63      | peak     | 150         | 360            | P   |        |
| 3   | 5778.7000       | 61.86          | -16.12        | 45.74          | 74.00          | -28.26      | peak     | 150         | 360            | P   |        |
| 4   | 8558.2000       | 58.29          | -10.73        | 47.56          | 74.00          | -26.44      | peak     | 150         | 360            | P   |        |
| 5   | 10588.0000      | 55.45          | -7.46         | 47.99          | 74.00          | -26.01      | peak     | 150         | 360            | P   |        |
| 6 * | 12021.1000      | 56.10          | -7.74         | 48.36          | 74.00          | -25.64      | peak     | 150         | 360            | P   |        |

Node: The high-level peak indicated by the arrow in the plot is the fundamental operating frequency, which is not a spurious emission. Spurious emission limits are not applicable to the fundamental frequency. All other marked peaks are spurious components.



TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2441

Mode:

Note:

Polarization: **Vertical**

Power:

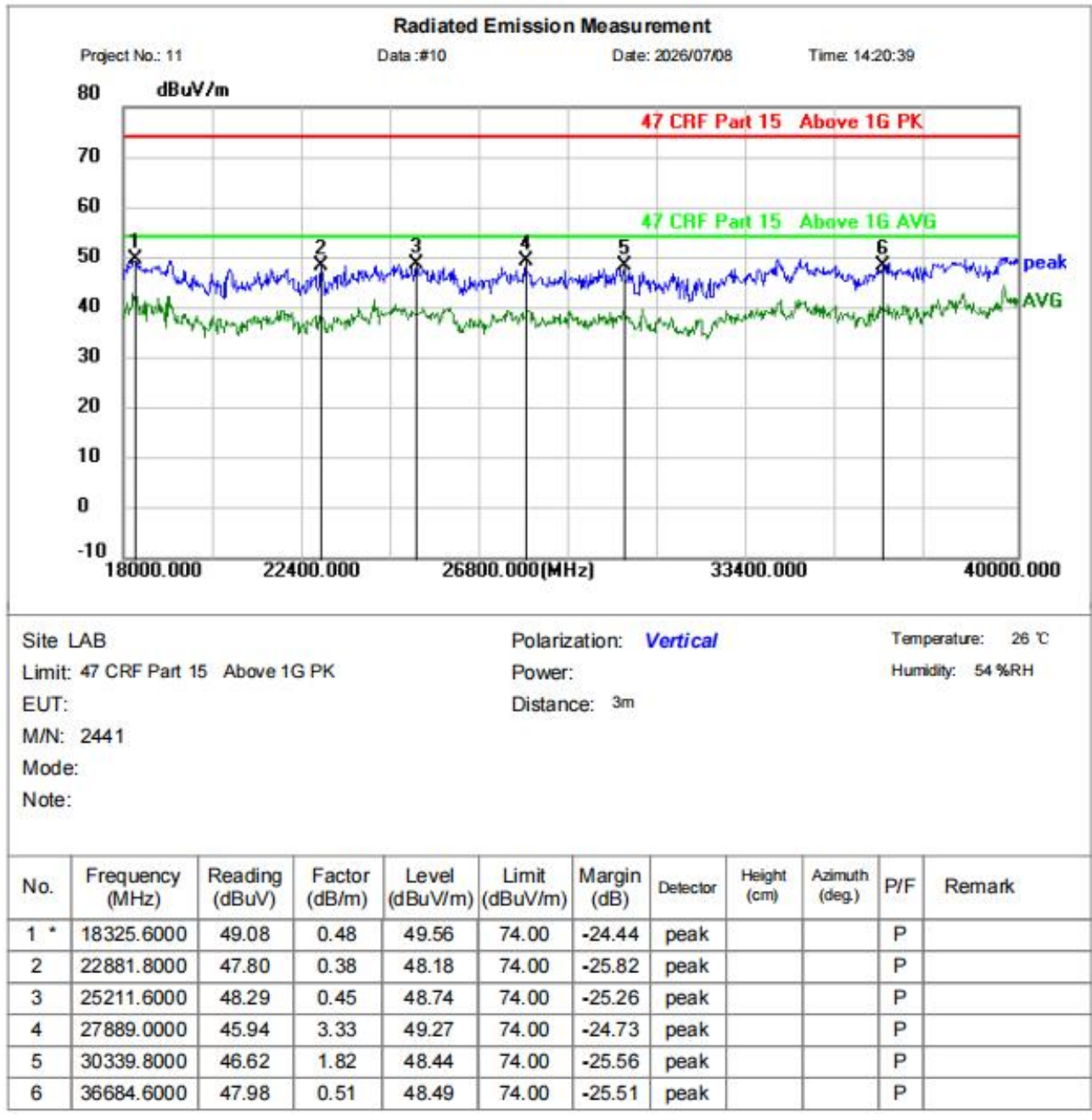
Distance: 3m

Temperature: 26 °C

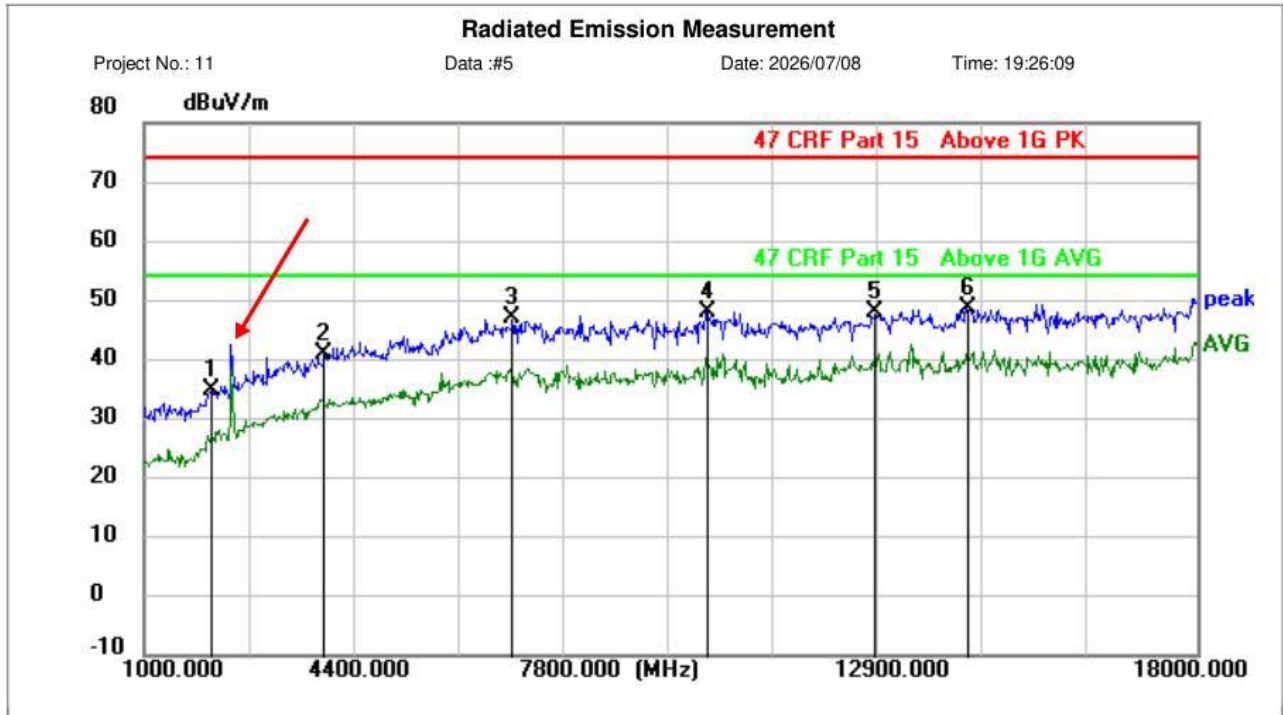
Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2179.8000       | 58.95          | -23.10        | 35.85          | 74.00          | -38.15      | peak     | 150         | 360            | P   |        |
| 2   | 4022.6000       | 59.62          | -19.01        | 40.61          | 74.00          | -33.39      | peak     | 150         | 360            | P   |        |
| 3   | 7342.7000       | 60.05          | -13.01        | 47.04          | 74.00          | -26.96      | peak     | 150         | 360            | P   |        |
| 4   | 9537.4000       | 55.50          | -8.73         | 46.77          | 74.00          | -27.23      | peak     | 150         | 360            | P   |        |
| 5   | 12126.5000      | 56.06          | -7.57         | 48.49          | 74.00          | -25.51      | peak     | 150         | 360            | P   |        |
| 6 * | 14430.0000      | 58.12          | -9.02         | 49.10          | 74.00          | -24.90      | peak     | 150         | 360            | P   |        |

Node: The high-level peak indicated by the arrow in the plot is the fundamental operating frequency, which is not a spurious emission. Spurious emission limits are not applicable to the fundamental frequency. All other marked peaks are spurious components.



TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2472

Mode:

Note:

Polarization: **Horizontal**

Power:

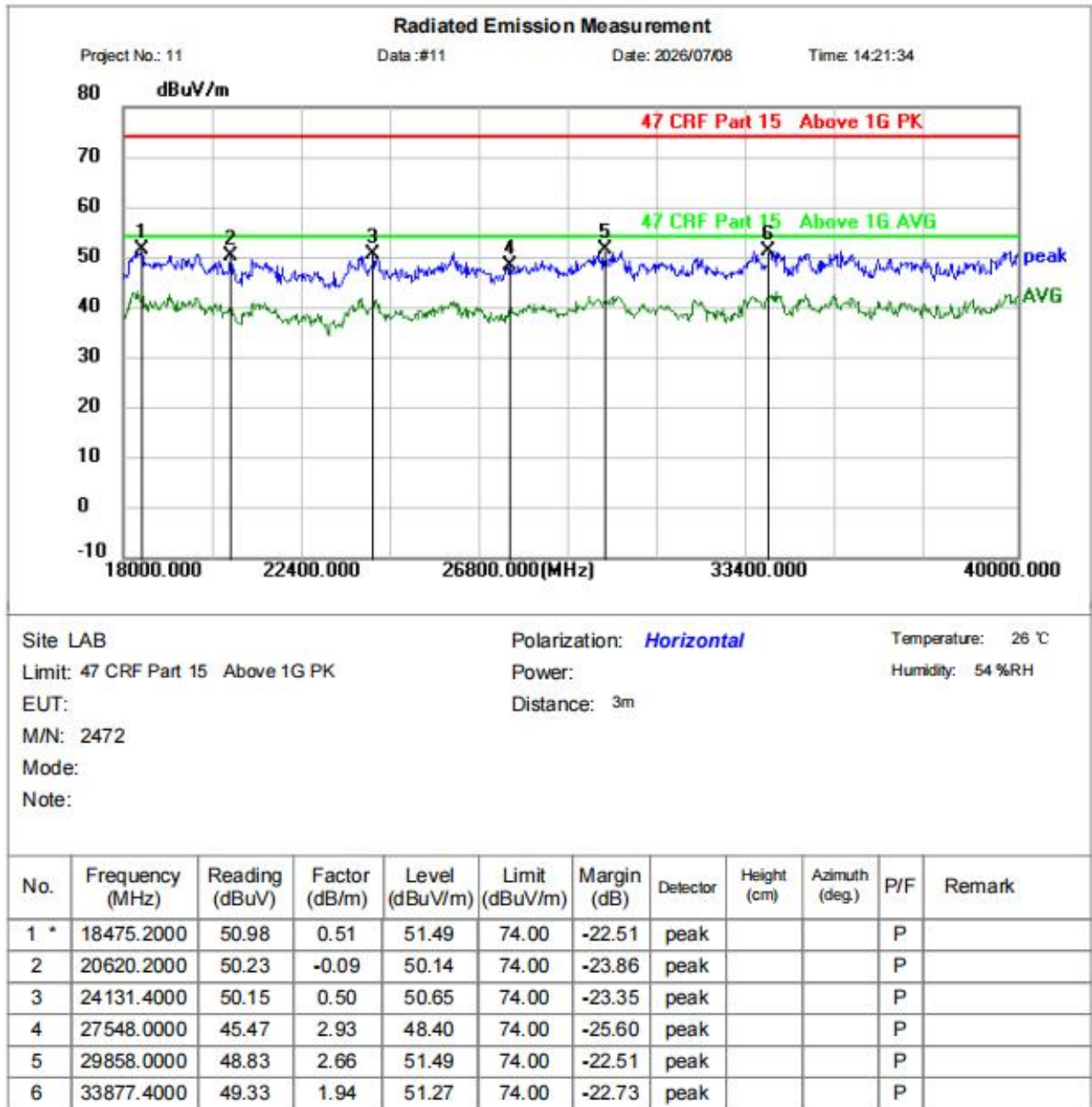
Distance: 3m

Temperature: 26 °C

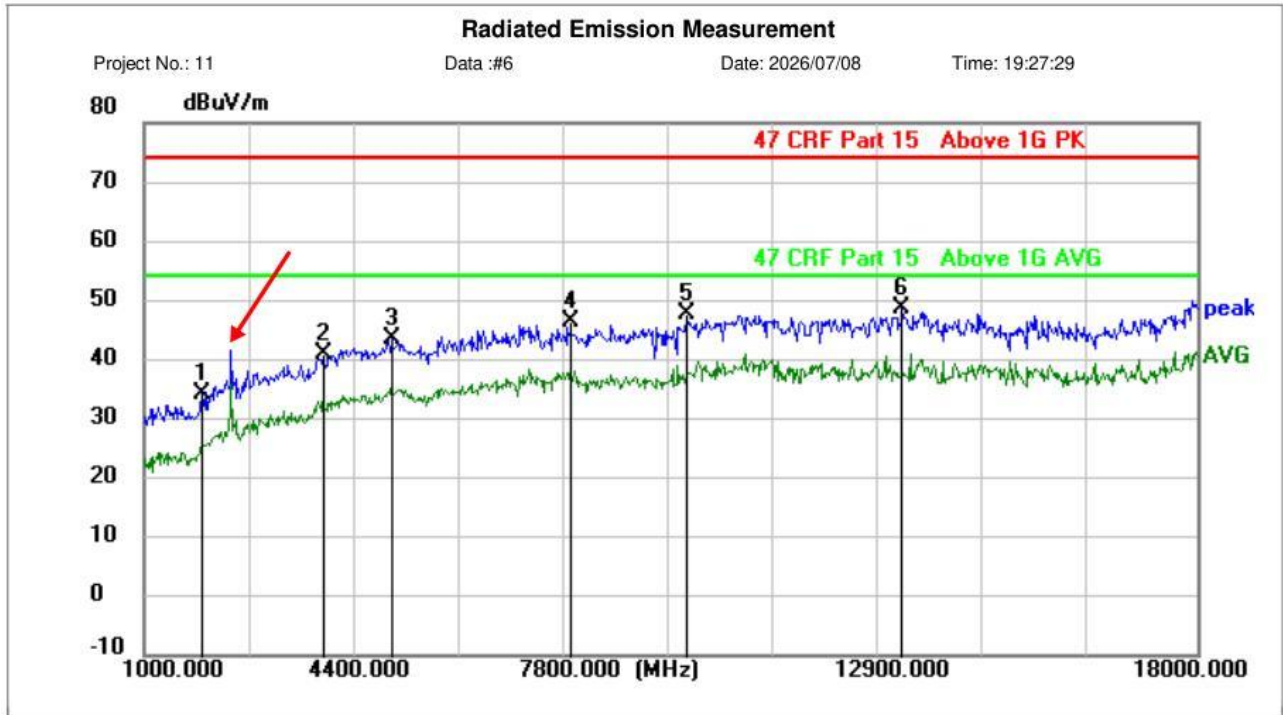
Humidity: 54 %RH

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 2072.7000       | 58.35          | -23.44        | 34.91          | 74.00          | -39.09      | peak     | 150         | 360            | P   |        |
| 2   | 3918.9000       | 59.85          | -18.98        | 40.87          | 74.00          | -33.13      | peak     | 150         | 360            | P   |        |
| 3   | 6963.6000       | 60.95          | -13.87        | 47.08          | 74.00          | -26.92      | peak     | 150         | 360            | P   |        |
| 4   | 10079.7000      | 56.67          | -8.65         | 48.02          | 74.00          | -25.98      | peak     | 150         | 360            | P   |        |
| 5   | 12811.6000      | 56.72          | -8.83         | 47.89          | 74.00          | -26.11      | peak     | 150         | 360            | P   |        |
| 6 * | 14311.0000      | 57.46          | -8.73         | 48.73          | 74.00          | -25.27      | peak     | 150         | 360            | P   |        |

Node: The high-level peak indicated by the arrow in the plot is the fundamental operating frequency, which is not a spurious emission. Spurious emission limits are not applicable to the fundamental frequency. All other marked peaks are spurious components.



TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



Site LAB

Limit: 47 CFR Part 15 Above 1G PK

EUT:

M/N: 2472

Mode:

Note:

Polarization: **Vertical**

Power:

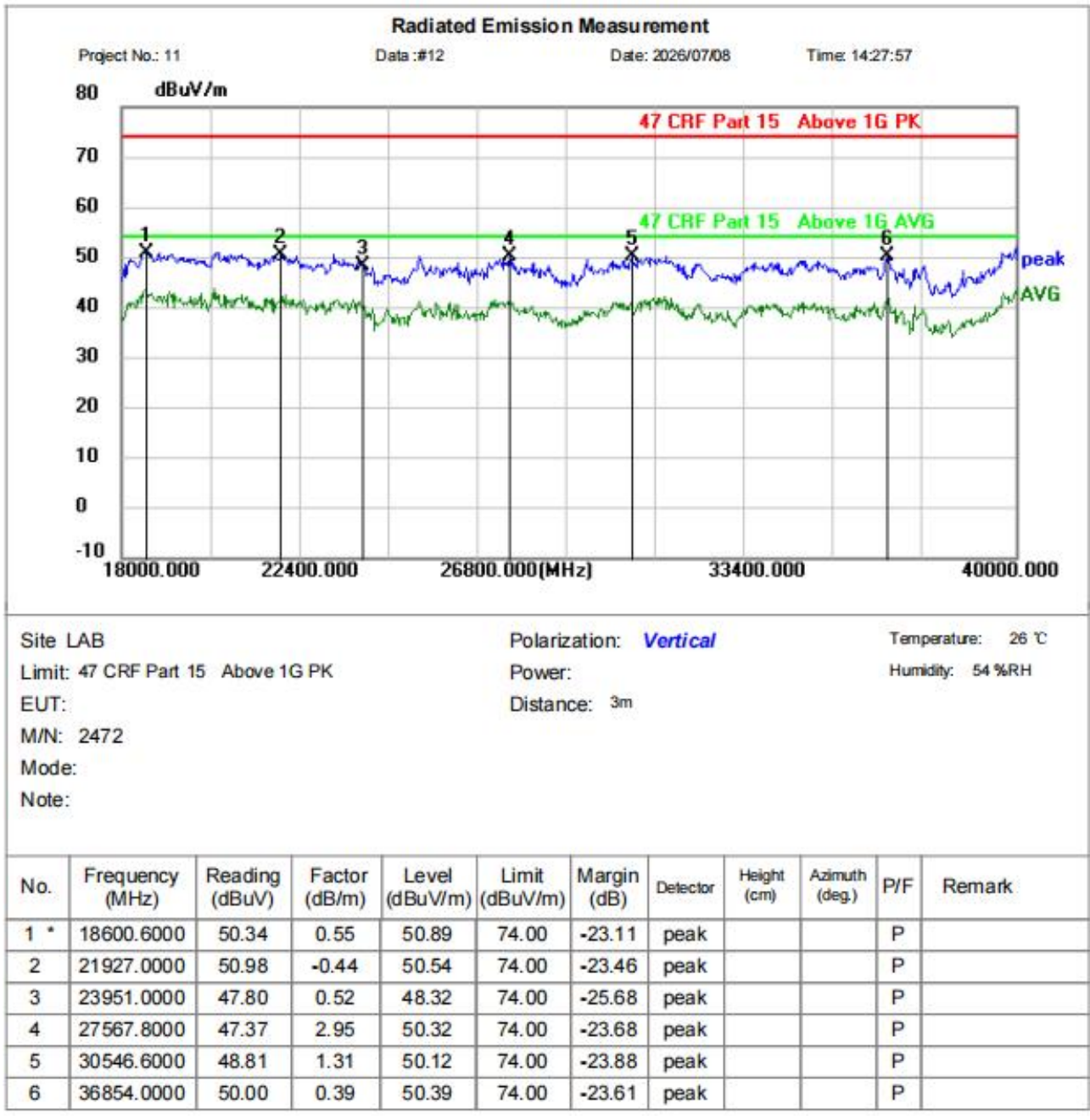
Distance: 3m

Temperature: 26 °C

Humidity: 54 %RH

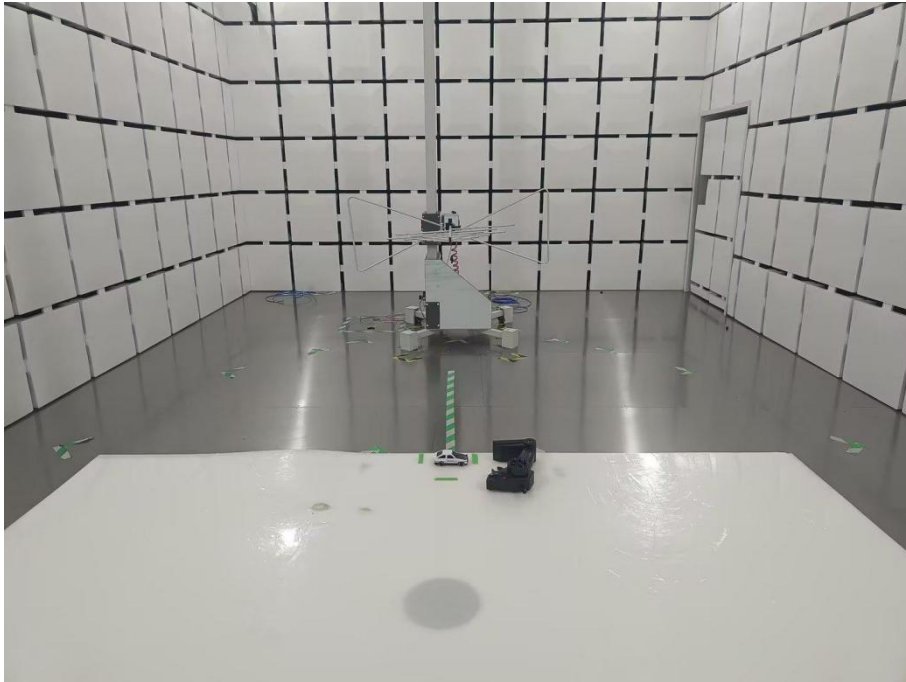
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 1948.6000       | 58.61          | -24.46        | 34.15          | 74.00          | -39.85      | peak     | 150         | 360            | P   |        |
| 2   | 3920.6000       | 59.85          | -18.95        | 40.90          | 74.00          | -33.10      | peak     | 150         | 360            | P   |        |
| 3   | 5005.2000       | 60.62          | -17.06        | 43.56          | 74.00          | -30.44      | peak     | 150         | 360            | P   |        |
| 4   | 7907.1000       | 58.63          | -12.24        | 46.39          | 74.00          | -27.61      | peak     | 150         | 360            | P   |        |
| 5   | 9768.6000       | 56.81          | -8.96         | 47.85          | 74.00          | -26.15      | peak     | 150         | 360            | P   |        |
| 6 * | 13255.3000      | 57.77          | -9.15         | 48.62          | 74.00          | -25.38      | peak     | 150         | 360            | P   |        |

Node: The high-level peak indicated by the arrow in the plot is the fundamental operating frequency, which is not a spurious emission. Spurious emission limits are not applicable to the fundamental frequency. All other marked peaks are spurious components.

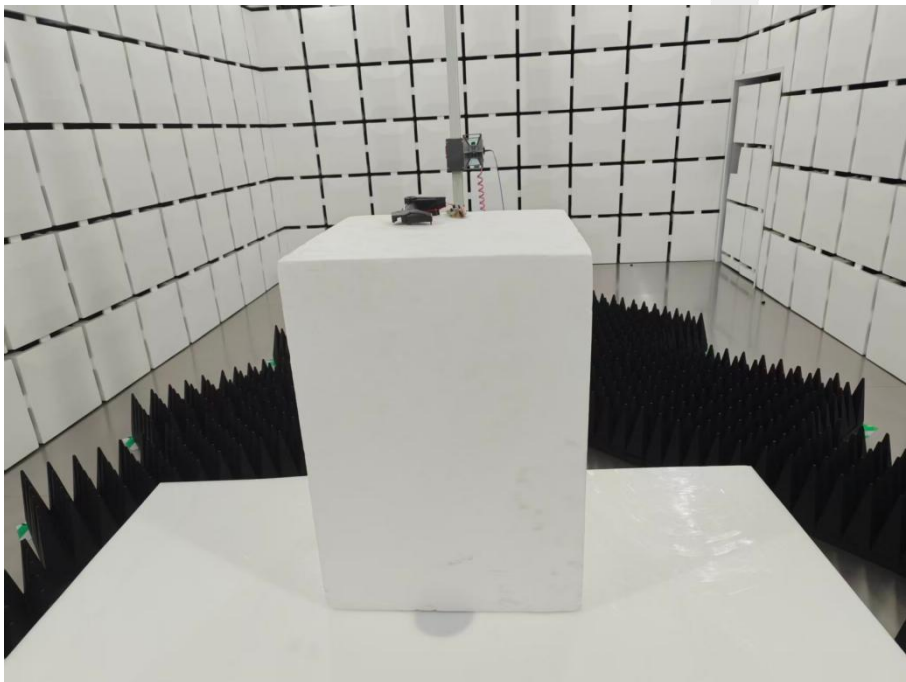


## 7. TEST SETUP PHOTOS

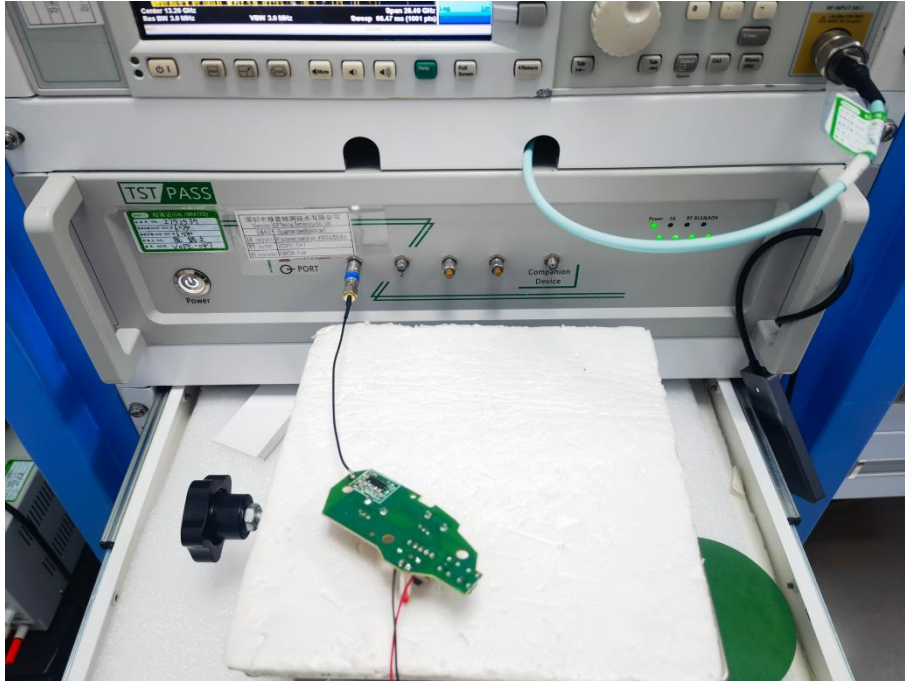
Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)



## Conducted RF test



## 8. Appendix Report

### 1. Duty Cycle

#### 1.1 Test Result

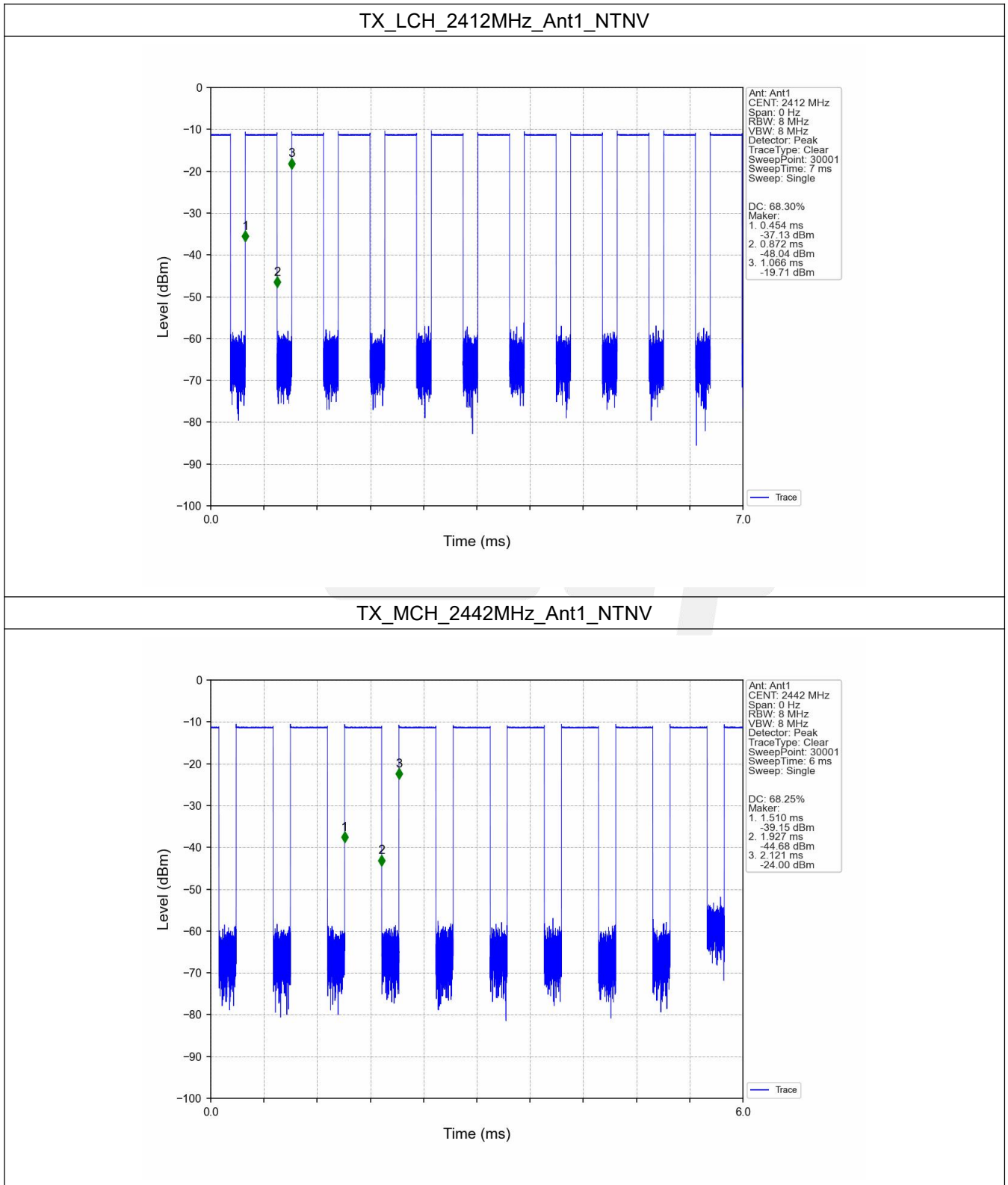
##### 1.1.1 Ant1

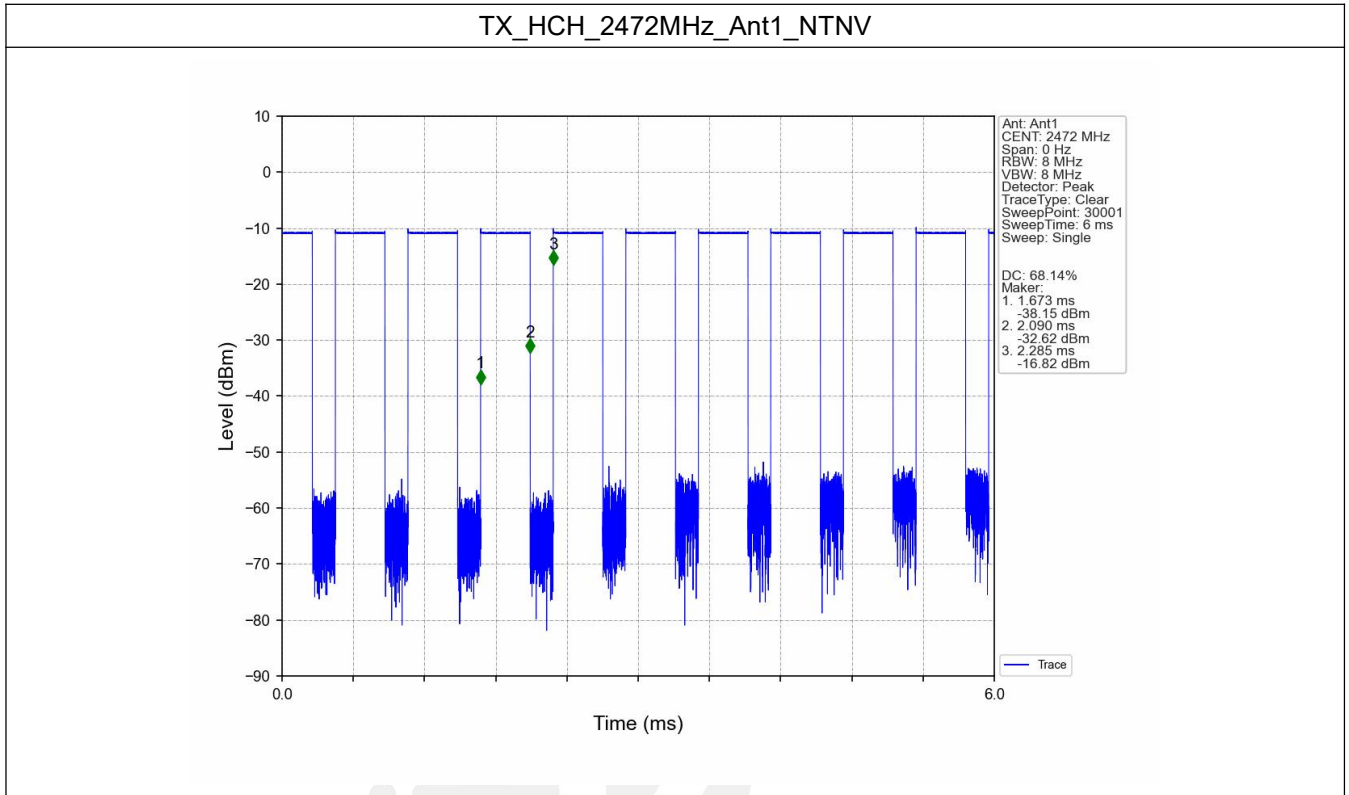
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| TX   | SISO    | 2412            | 0.418     | 0.612       | 68.30          | 1.66                              | 0.26                  |
|      |         | 2442            | 0.417     | 0.611       | 68.25          | 1.66                              | 0.27                  |
|      |         | 2472            | 0.417     | 0.612       | 68.14          | 1.67                              | 0.32                  |



## 1.2 Test Graph

### 1.2.1 Ant1





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

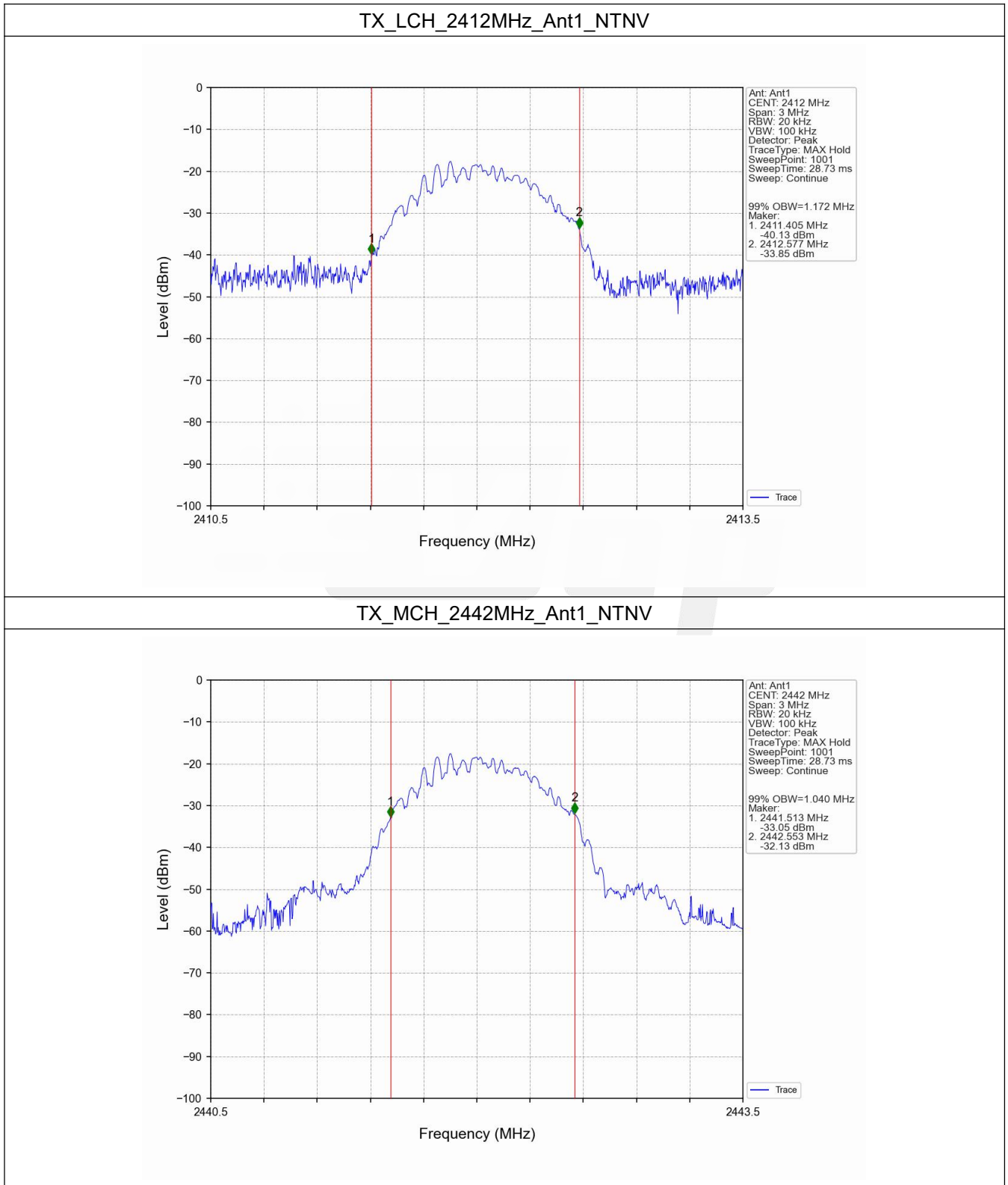
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| TX   | SISO    | 2412            | 1   | 1.172                        | /     | Pass    |
|      |         | 2442            | 1   | 1.040                        | /     | Pass    |
|      |         | 2472            | 1   | 1.043                        | /     | Pass    |

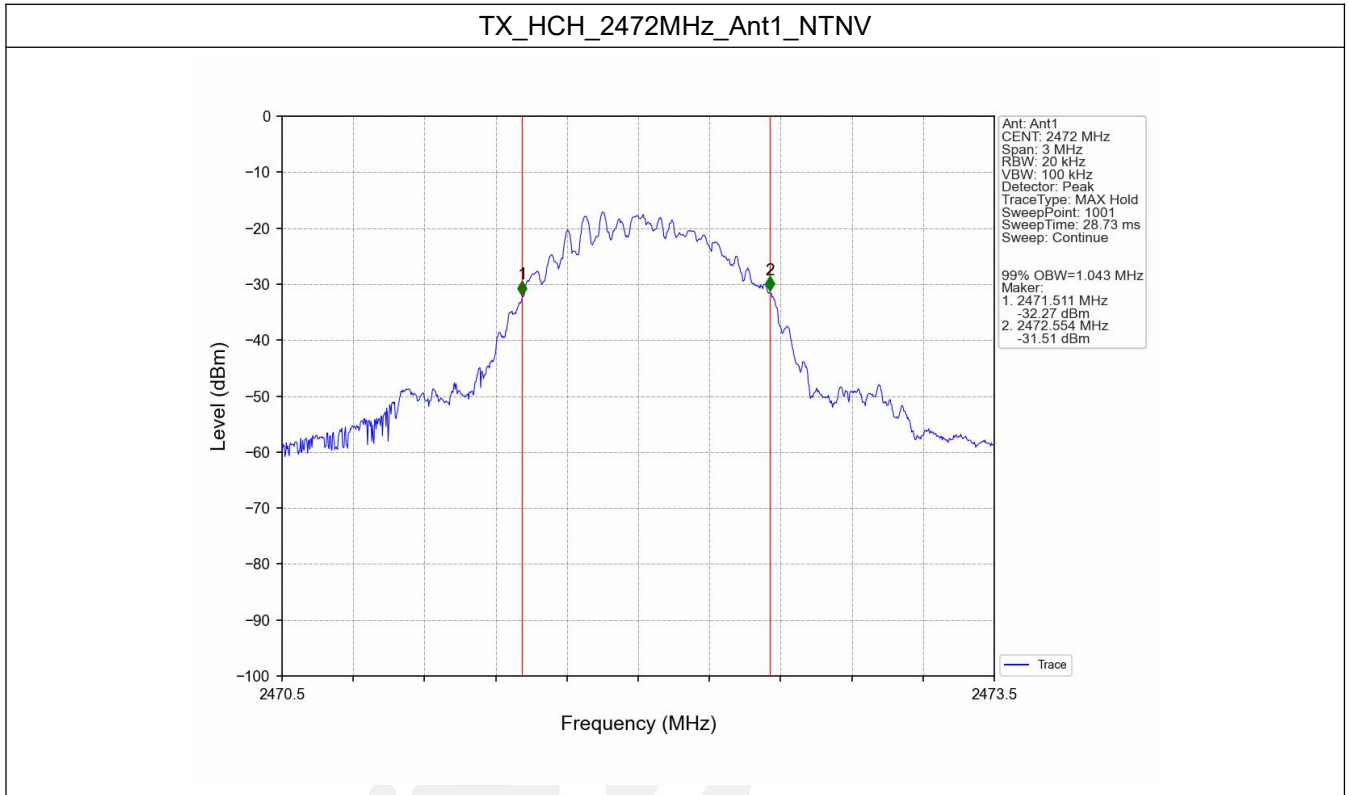
#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| TX   | SISO    | 2412            | 1   | 0.694               | $\geq 0.5$ | Pass    |
|      |         | 2442            | 1   | 0.688               | $\geq 0.5$ | Pass    |
|      |         | 2472            | 1   | 0.724               | $\geq 0.5$ | Pass    |

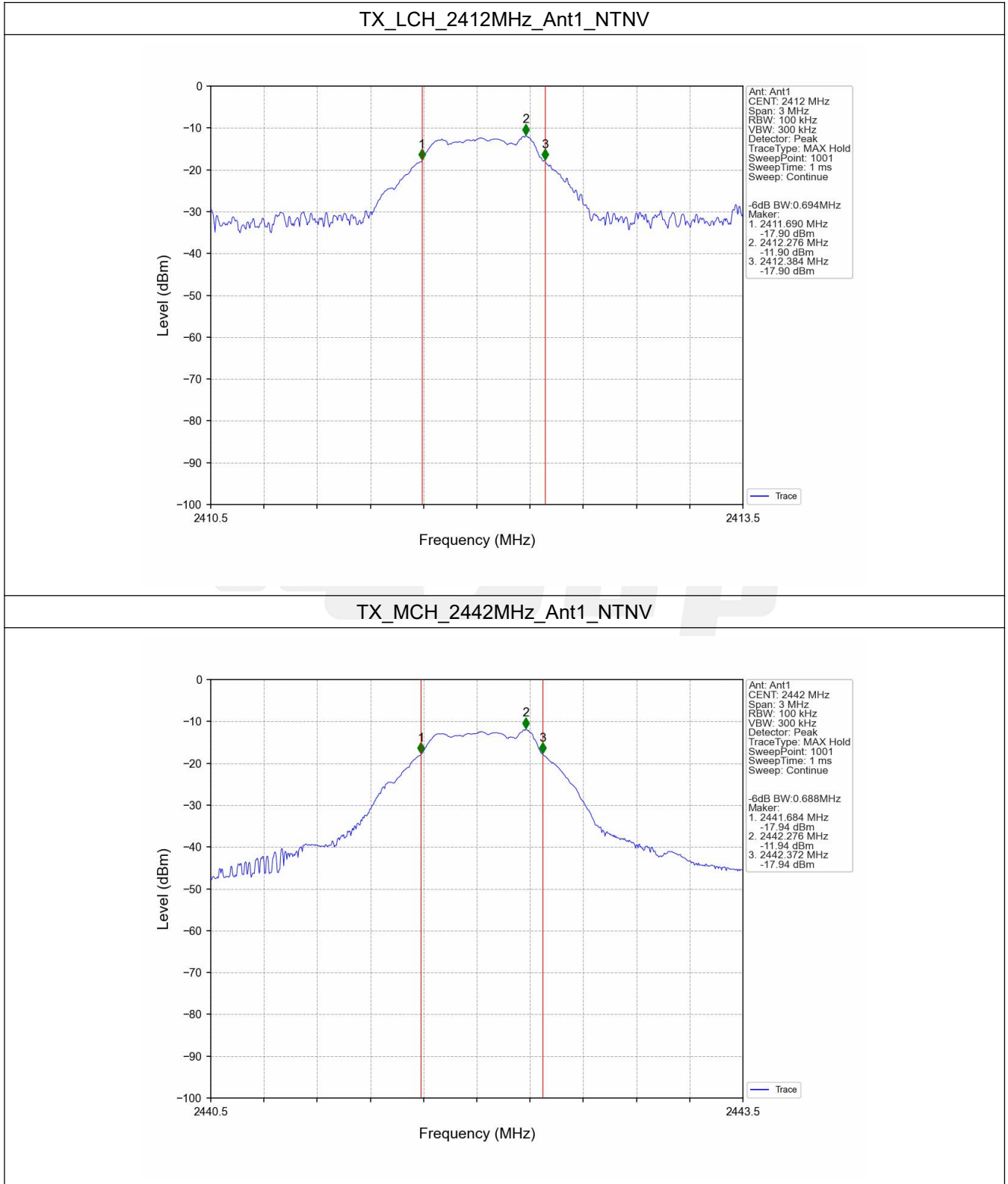
## 2.2 Test Graph

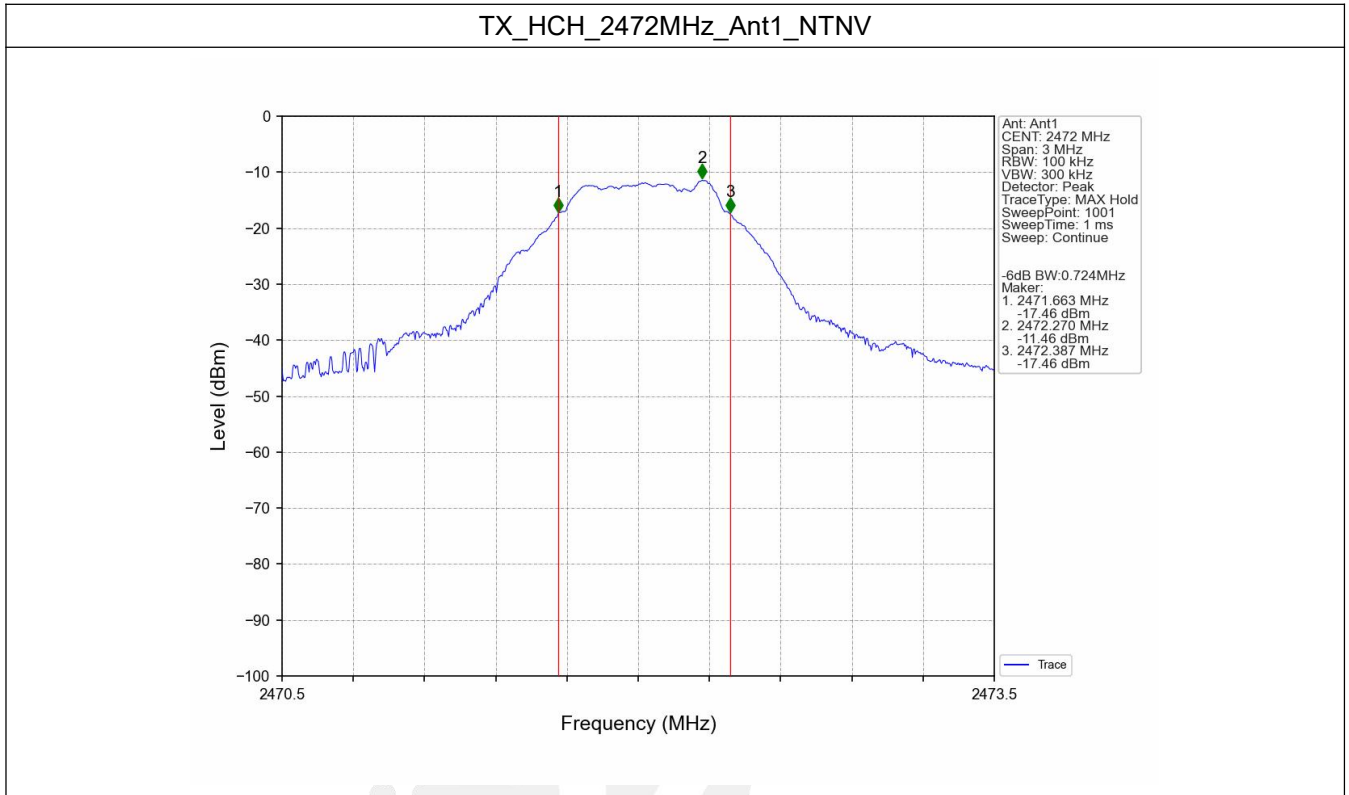
### 2.2.1 OBW





### 2.2.2 6dB BW





### 3. Maximum Conducted Output Power

#### 3.1 Test Result

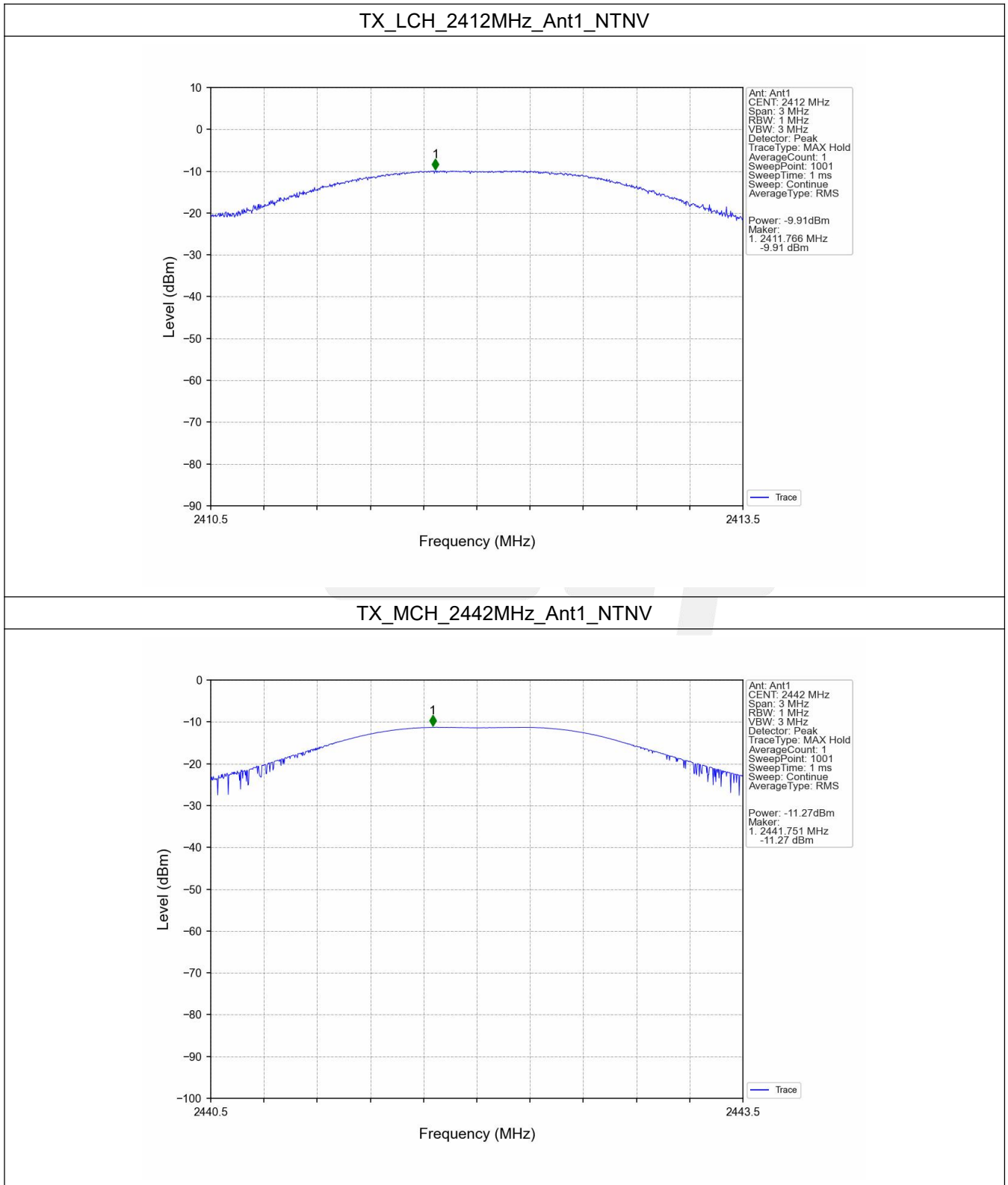
##### 3.1.1 Power

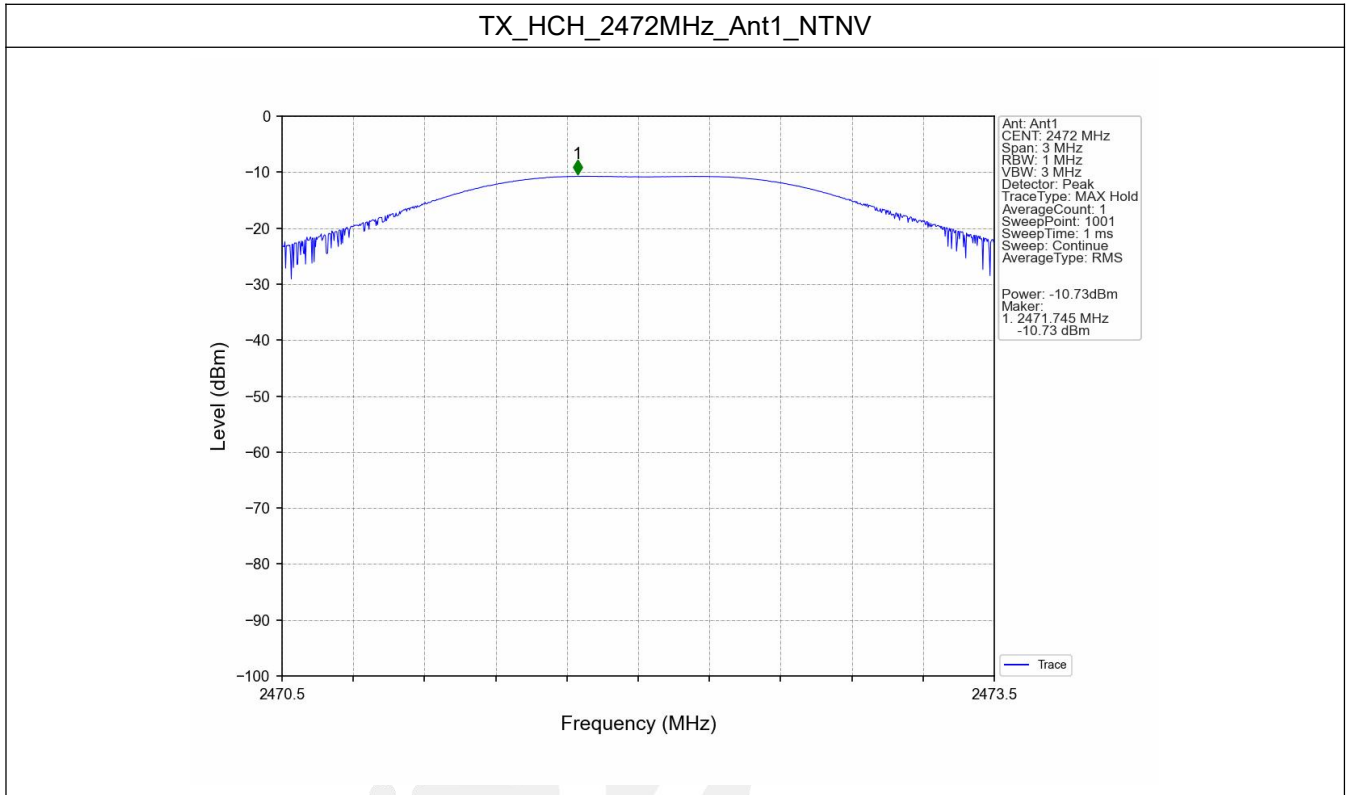
| Mode                                 | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|--------------------------------------|---------|-----------------|-------------------------------------------|-------|---------|
|                                      |         |                 | ANT1                                      | Limit |         |
| TX                                   | SISO    | 2412            | -9.91                                     | <=30  | Pass    |
|                                      |         | 2442            | -11.27                                    | <=30  | Pass    |
|                                      |         | 2472            | -10.73                                    | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: -0.24dBi; |         |                 |                                           |       |         |



## 3.2 Test Graph

### 3.2.1 Power





## 4. Maximum Power Spectral Density

### 4.1 Test Result

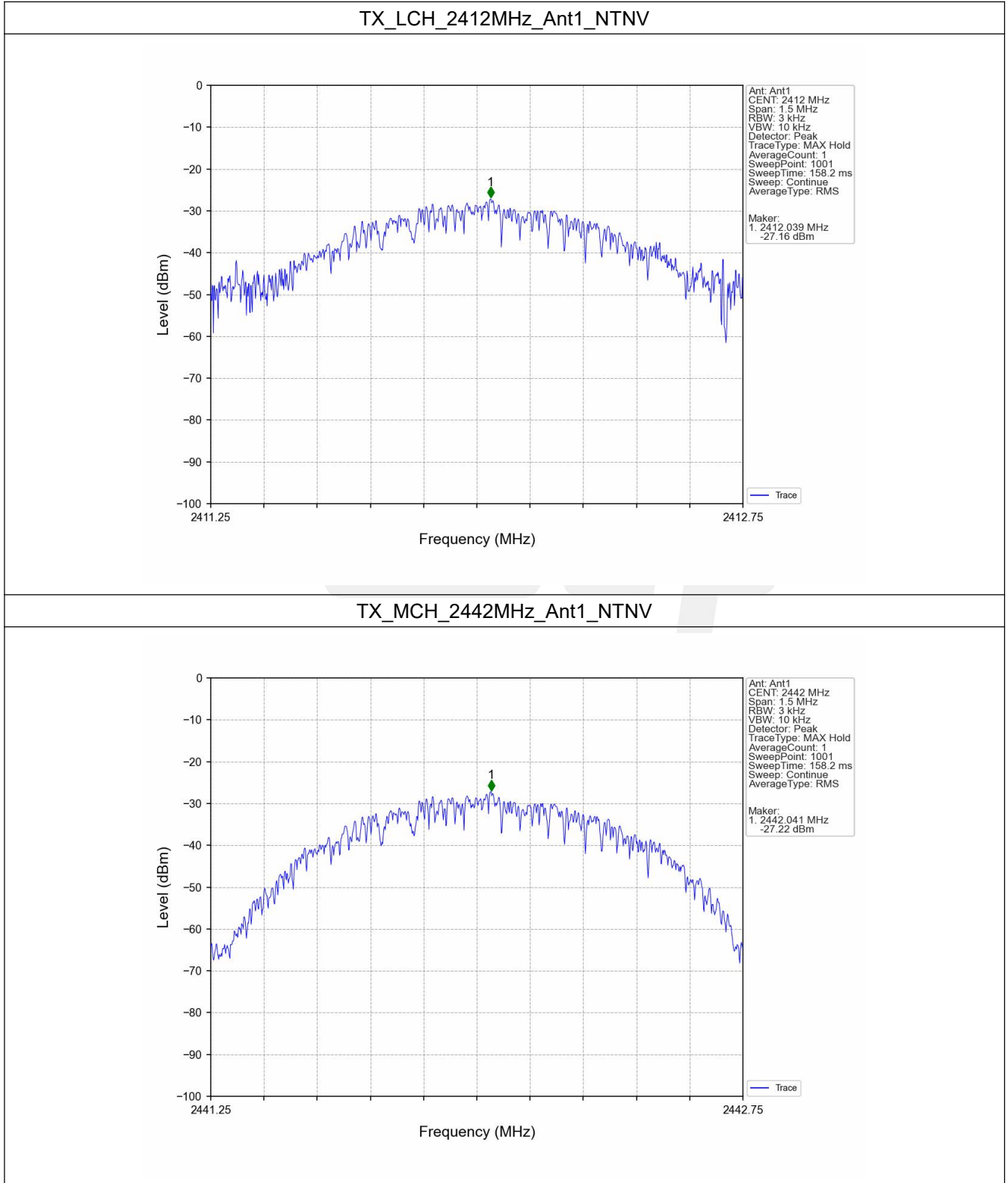
#### 4.1.1 PSD

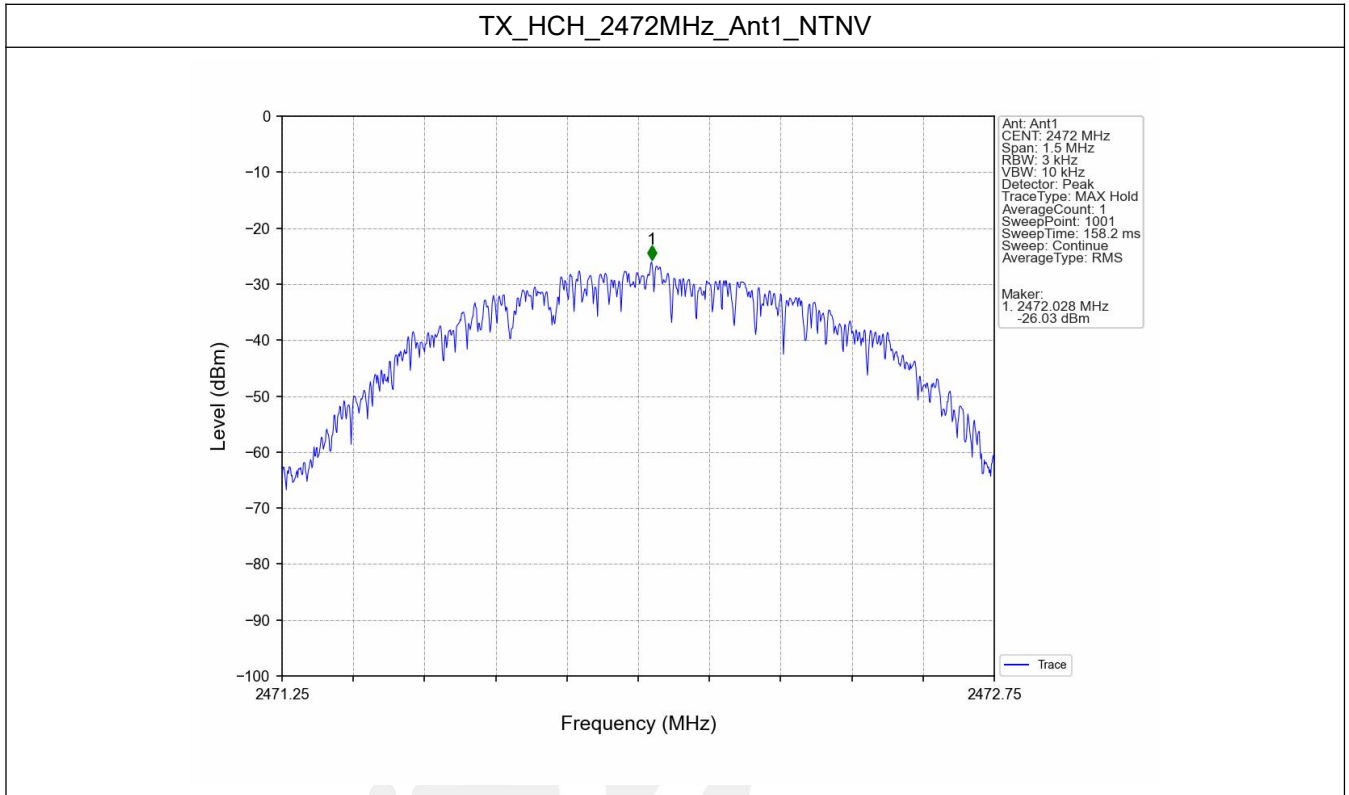
| Mode                                 | TX Type | Frequency (MHz) | Maximum PSD (dBm) |                 | Verdict |
|--------------------------------------|---------|-----------------|-------------------|-----------------|---------|
|                                      |         |                 | ANT1              | Limit(dBm/3kHz) |         |
| TX                                   | SISO    | 2412            | -27.16dBm/3kHz    | <=8             | Pass    |
|                                      |         | 2442            | -27.22dBm/3kHz    | <=8             | Pass    |
|                                      |         | 2472            | -26.03dBm/3kHz    | <=8             | Pass    |
| Note1: Antenna Gain: Ant1: -0.24dBi; |         |                 |                   |                 |         |



## 4.2 Test Graph

### 4.2.1 PSD






## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

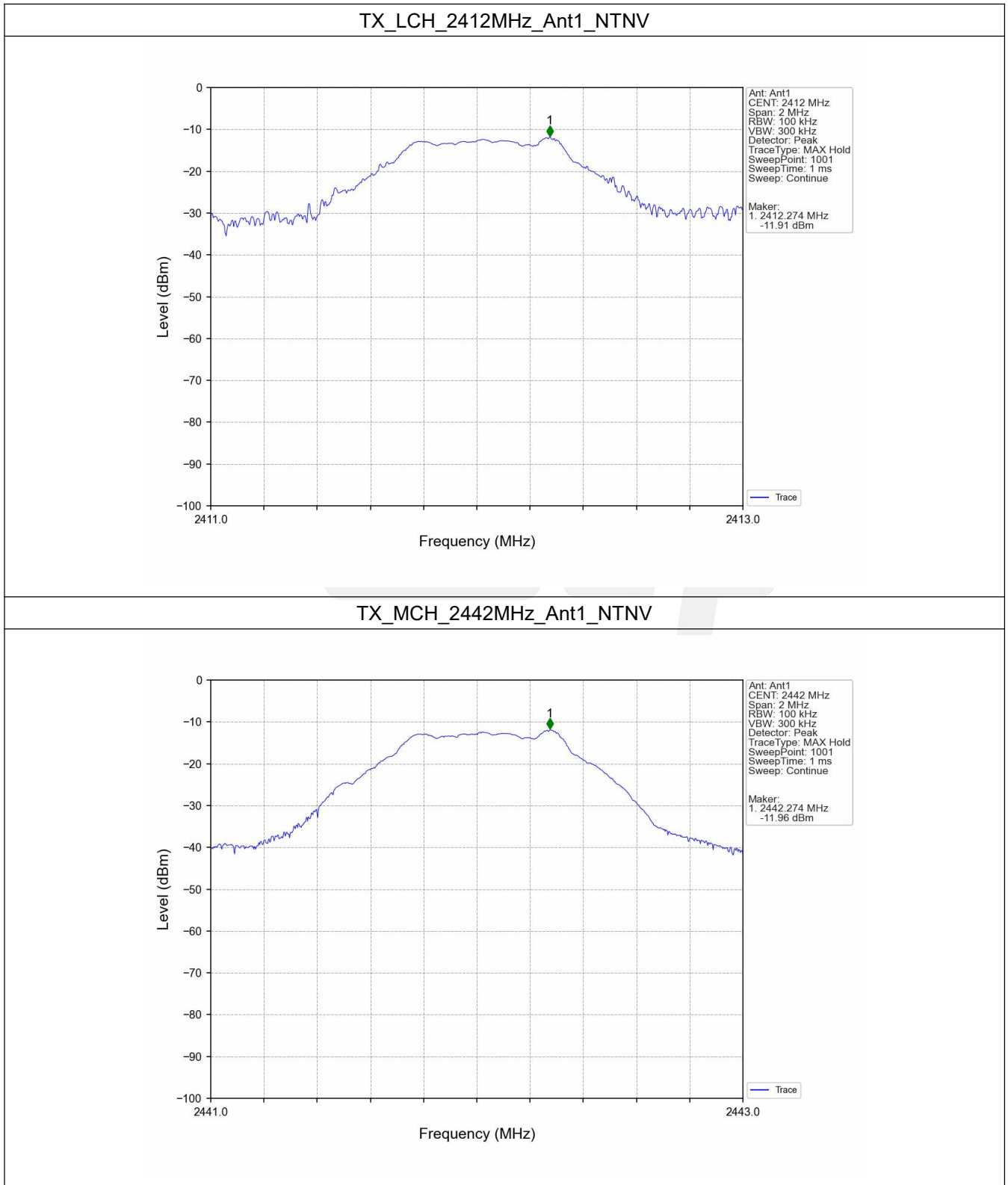
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| TX   | SISO    | 2412            | 1   | -11.91                   |
|      |         | 2442            | 1   | -11.96                   |
|      |         | 2472            | 1   | -11.51                   |

#### 5.1.2 CSE

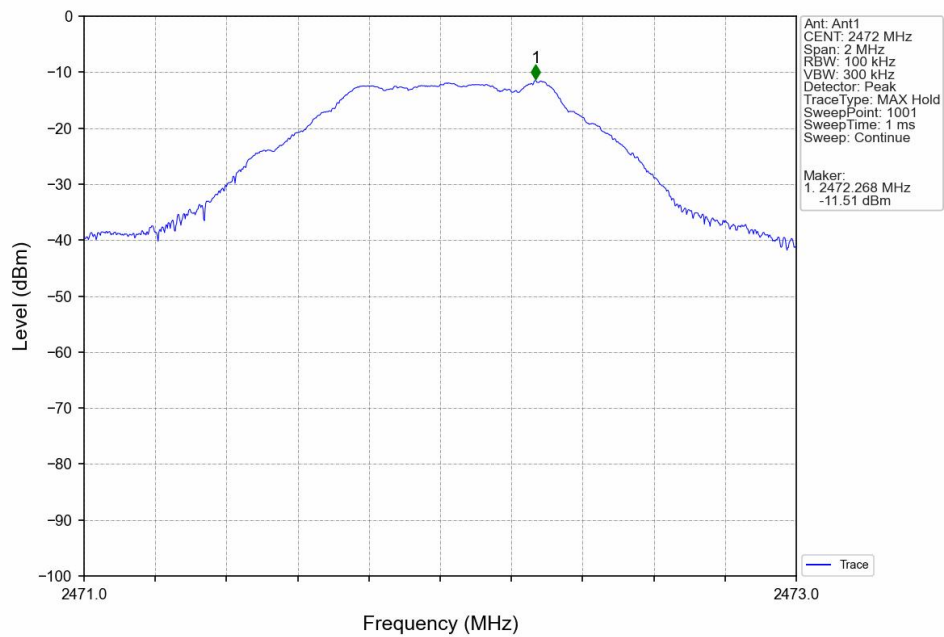
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| TX   | SISO    | 2412            | 1   | -11.91                   | -31.91      | Pass    |
|      |         | 2442            | 1   | -11.96                   | -31.96      | Pass    |
|      |         | 2472            | 1   | -11.51                   | -31.51      | Pass    |

## 5.2 Test Graph

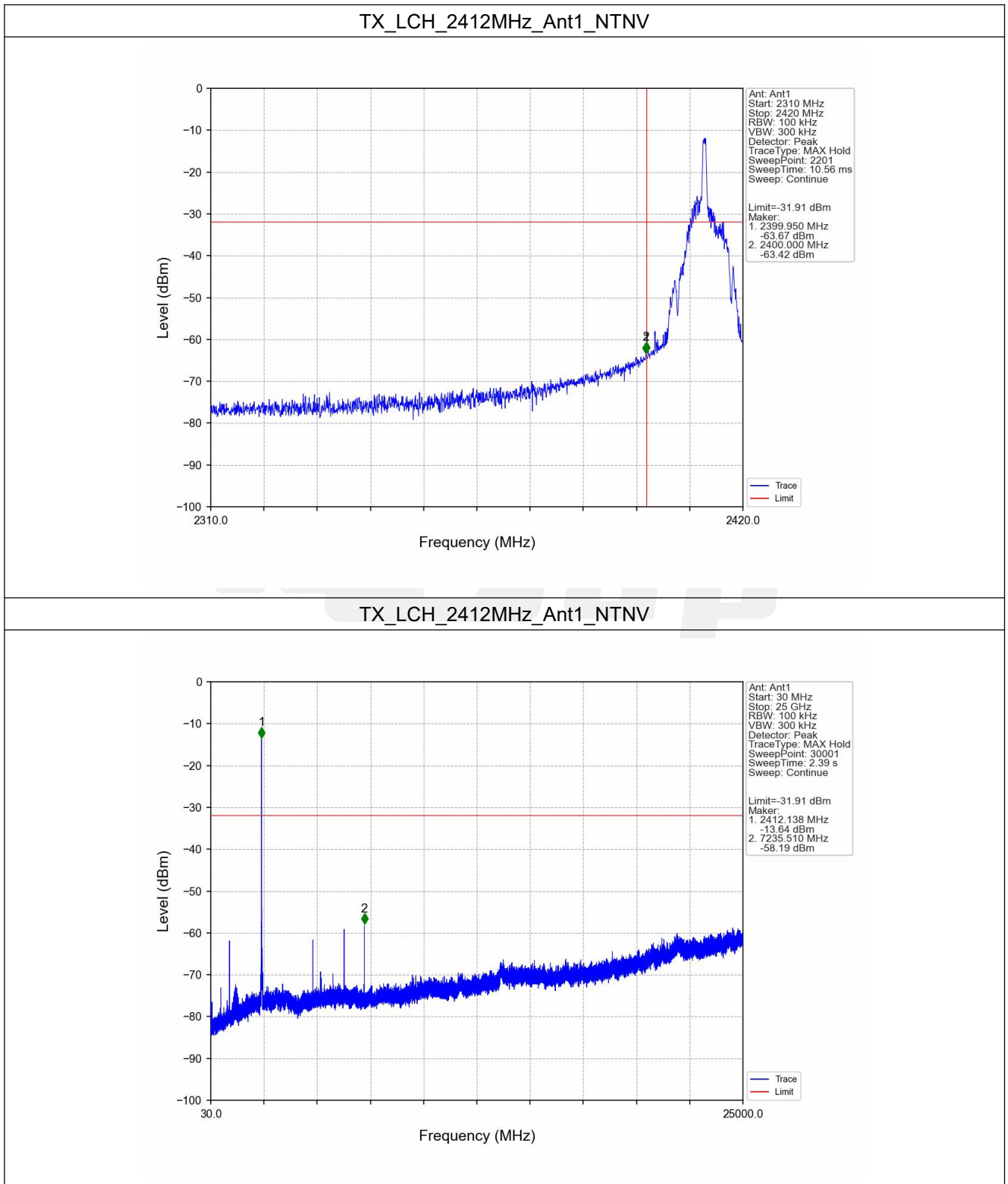
### 5.2.1 Ref



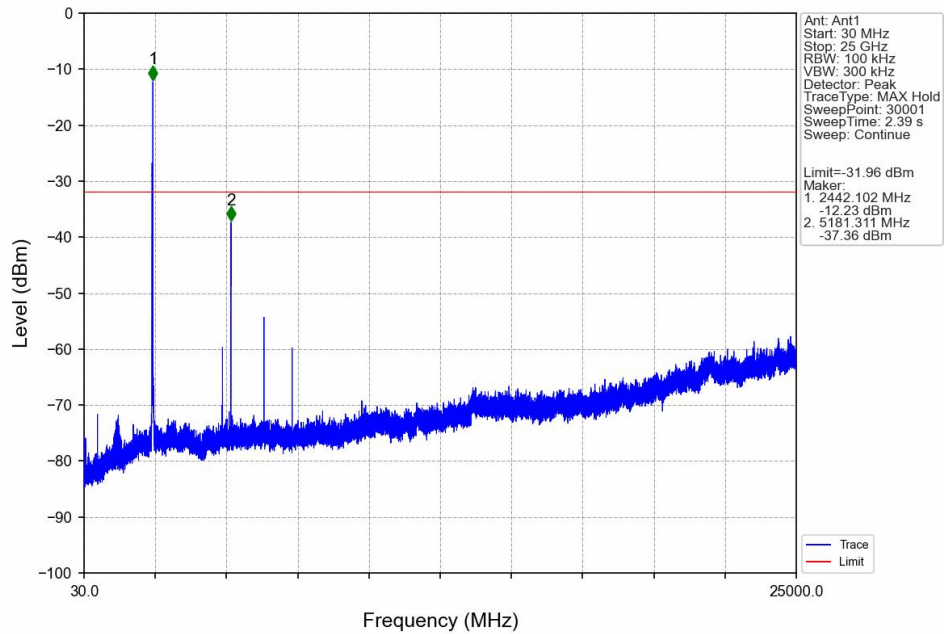
## TX\_HCH\_2472MHz\_Ant1\_NTNV



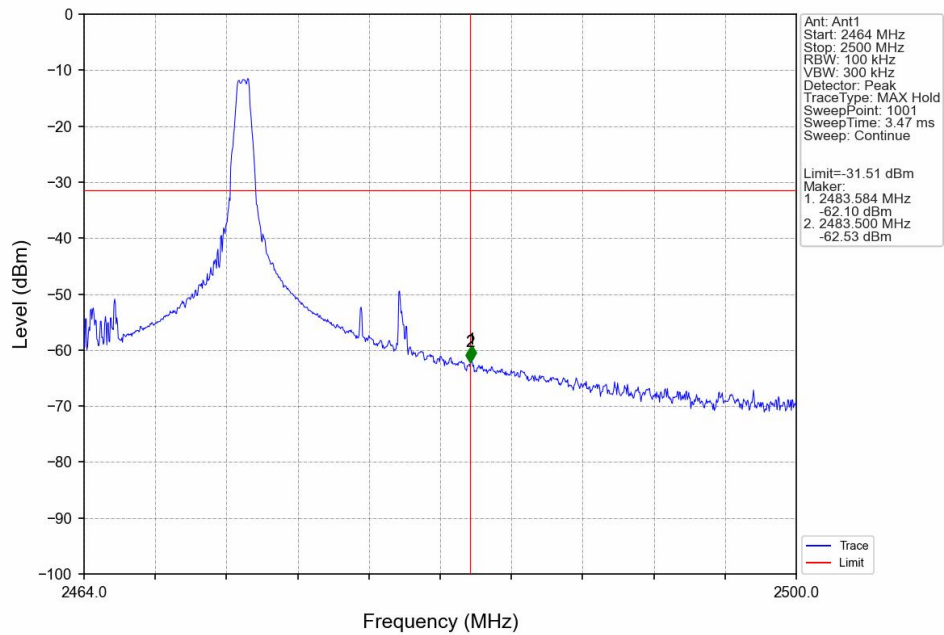
## 5.2.2 CSE



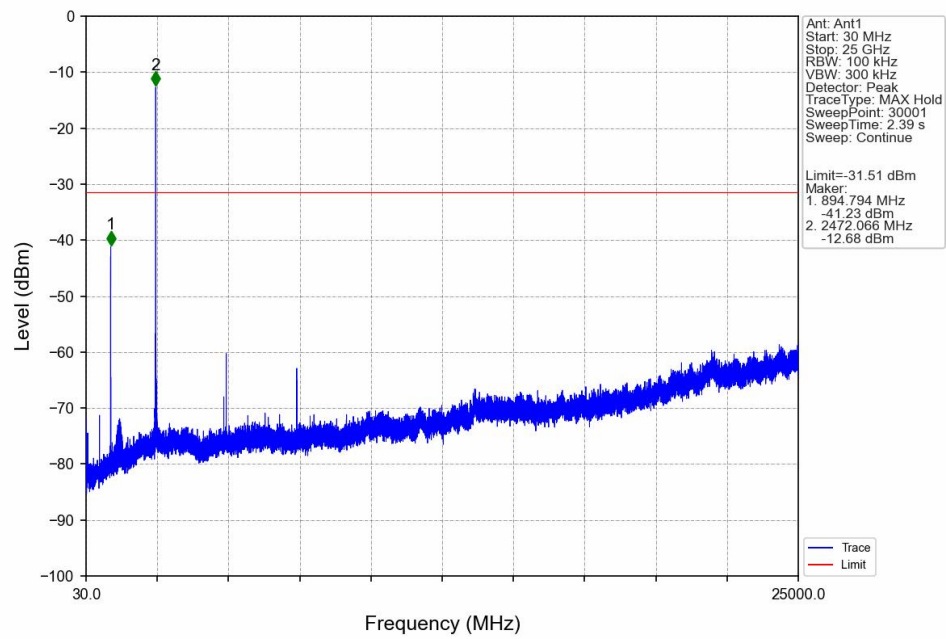
## TX\_MCH\_2442MHz\_Ant1\_NTNV



## TX\_HCH\_2472MHz\_Ant1\_NTNV



## TX\_HCH\_2472MHz\_Ant1\_NTNV



## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 2412             | 2472            | 0.0001        | -9.91           |

\*\*End of the report\*\*

