

# Radio Test Report

## 47 CFR Part 15.247

**Applicant's name** : Shenzhenshi Xingbiaohang Technology Co., Ltd.  
3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad,  
**Address** : Shilong Community, Shiyao Street, Baoan District, Shenzhen, Guangdong,  
CN(China)  
**Manufacture's Name** : Shenzhenshi Xingbiaohang Technology Co., Ltd.  
3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad,  
**Address** : Shilong Community, Shiyao Street, Baoan District, Shenzhen, Guangdong,  
CN(China)

### Product description

**Trader mark** : N/A  
**Product Name:** : Decoding Box  
**Model and/or type reference** : CPB-001  
**Serial Model** : CPB-002 (For other models, please refer to page two.)  
**Rating(s)** : DC12V,300mA,3.6W  
**Standards** : 47 CFR Part 15.247  
**FCCID** : 2BWEJ-CPB001

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** : 2026-04-22 ~ 2026-05-15  
**Date of Issue** : 2026-05-15  
**Test Result** : **Pass**

Prepared by:

Jide Huang

Project Engineer

Reviewed by:

Eason Zhou

Project Supervisor

Approved by:

Eason Yu

Technical Director



**Other models:**

CPB-003,CPB-005,CPB-006,CPB-007,CPB-008,CPB-009,CPB-010,CPB-011,CPB-012,CPB-013,CPB-014,  
CPB-015,CPB-016,CPB-017,CPB-018,CPB-019,CPB-020,CPB-021,CPB-022,CPB-023,CPB-024,CPB-025,  
CPB-026,CPB-027,CPB-028,CPB-029,CPB-030



**REPORT REVISE RECORD**

| Report Version | Revise Time | Issued Date | Valid Version | Notes           |
|----------------|-------------|-------------|---------------|-----------------|
| V1.0           | /           | 2026-05-15  | 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 expended 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:           | Shenzhen Xingbiaohang Technology Co., Ltd.                                                                                                                                                                                                                 |
| Manufacturer Address:   | 3rd Floor, Building C, New Era Gongrong industrial Park, No2 Shihuan Road, Shilong Community, Shiyuan Street, Baoan District, Shenzhen, Guangdong, CN(China)                                                                                               |
| EUT Name:               | Decoding Box                                                                                                                                                                                                                                               |
| Model No:               | CPB-001                                                                                                                                                                                                                                                    |
| Serial Model:           | CPB-002, CPB-003, CPB-005, CPB-006, CPB-007, CPB-008, CPB-009, CPB-010, CPB-011, CPB-012, CPB-013, CPB-014, CPB-015, CPB-016, CPB-017, CPB-018, CPB-019, CPB-020, CPB-021, CPB-022, CPB-023, CPB-024, CPB-025, CPB-026, CPB-027, CPB-028, CPB-029, CPB-030 |
| Brand Name:             | N/A                                                                                                                                                                                                                                                        |
| Difference Description: | All models are identical to each other except for model name and appearance.                                                                                                                                                                               |
| Operation Frequency:    | 2402MHz to 2480MHz                                                                                                                                                                                                                                         |
| Data rate:              | 1Mbps                                                                                                                                                                                                                                                      |
| Number of channels:     | 40                                                                                                                                                                                                                                                         |
| Modulation Type:        | GFSK                                                                                                                                                                                                                                                       |
| Antenna type:           | External Antenna                                                                                                                                                                                                                                           |
| Antenna Gain:           | 3.8dBi                                                                                                                                                                                                                                                     |
| Bluetooth Version:      | N/A                                                                                                                                                                                                                                                        |
| Hardware Version:       | N/A                                                                                                                                                                                                                                                        |
| Software Version:       | N/A                                                                                                                                                                                                                                                        |
| Power Supply:           | DC12V, 300mA, 3.6W                                                                                                                                                                                                                                         |
| Maximum Output Power:   | 8.36dBm                                                                                                                                                                                                                                                    |

**Note:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The antenna information refers to the manufacturer's provided 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) |
|---------|-----------------|---------|-----------------|
| 00      | 2402            | 20      | 2442            |
| 01      | 2404            | 21      | 2444            |
| 02      | 2406            | 22      | 2446            |

|    |      |    |      |
|----|------|----|------|
| 03 | 2408 | 23 | 2448 |
| 04 | 2410 | 24 | 2450 |
| 05 | 2412 | 25 | 2452 |
| 06 | 2414 | 26 | 2454 |
| 07 | 2416 | 27 | 2456 |
| 08 | 2418 | 28 | 2458 |
| 09 | 2420 | 29 | 2460 |
| 10 | 2422 | 30 | 2462 |
| 11 | 2424 | 31 | 2464 |
| 12 | 2426 | 32 | 2466 |
| 13 | 2428 | 33 | 2468 |
| 14 | 2430 | 34 | 2470 |
| 15 | 2432 | 35 | 2472 |
| 16 | 2434 | 36 | 2474 |
| 17 | 2436 | 37 | 2476 |
| 18 | 2438 | 38 | 2478 |
| 19 | 2440 | 39 | 2480 |

## 4.2. EUT Test Mode

|                                                                          |                         |
|--------------------------------------------------------------------------|-------------------------|
| TM1                                                                      | TX mode                 |
| Test software Version                                                    | Test program: BRLBT APP |
| Frequency                                                                | 2402MHz,2440MHz,2480MHz |
| 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 | 2025-07-07 | 2026-07-06    |
| 2                                                                                                                                                    | RF automatic control unit | TST          | CBOX-Full | 2752539    | 2025-07-14 | 2026-07-13    |

| <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 | 2025-07-07 | 2026-07-06    |
| 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 External Antenna.It conforms to the standard requirements.



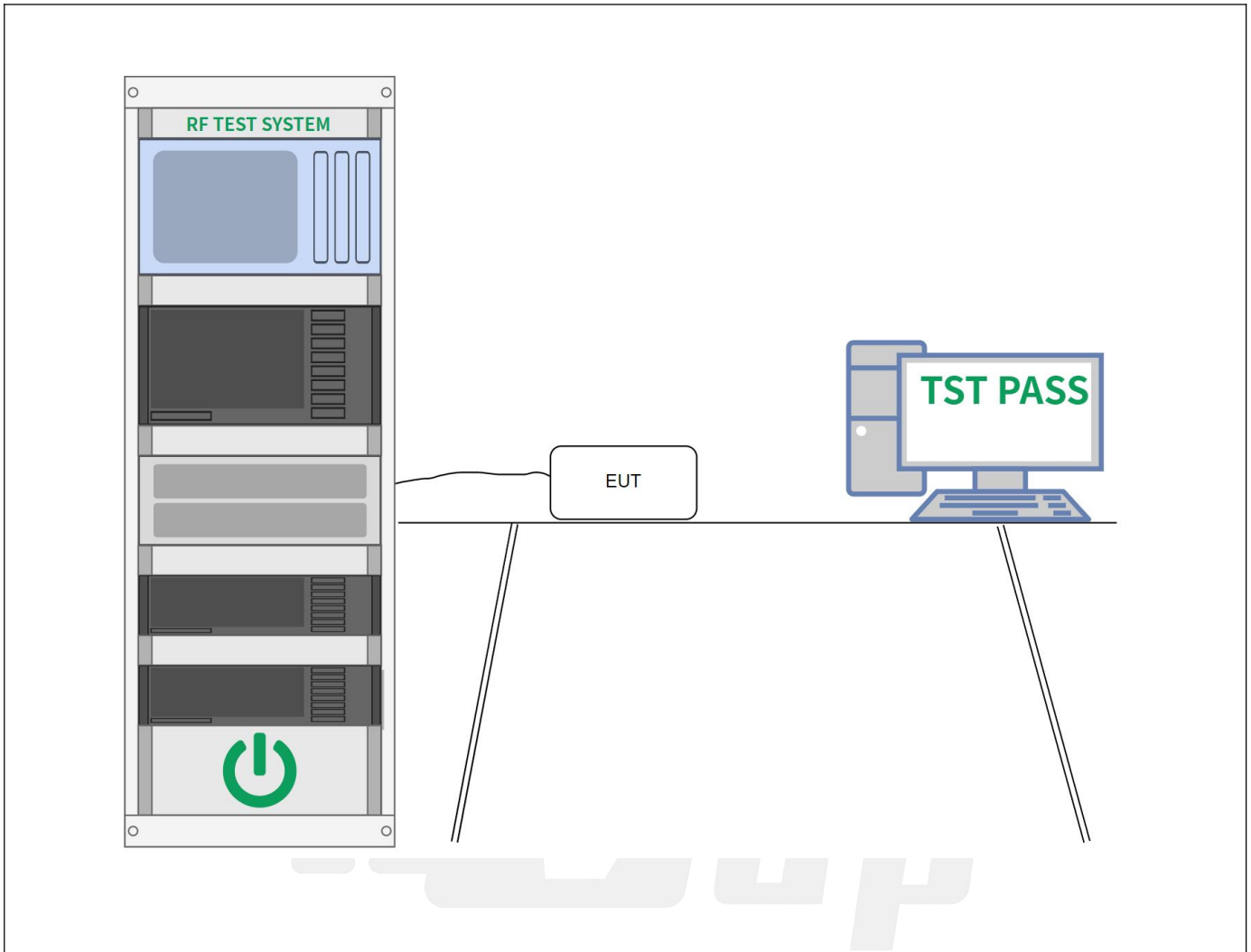
## 6.2. 6dB Bandwidth

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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, section 11.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
| Procedure:                 | <p>11.8.1 Option 1</p> <p>The steps for the first option are as follows:</p> <p>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</p> <p>b) Set the VBW <math>\geq [3 \times \text{RBW}]</math>.</p> <p>c) Detector = peak.</p> <p>d) Trace mode = max-hold.</p> <p>e) Sweep = No faster than coupled (auto) time.</p> <p>f) Allow the trace to stabilize.</p> <p>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.</p> <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> |          |
| Spectrum Analyzer Setting: | Spectrum Analyzer Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Setting  |
|                            | RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100KHz   |
|                            | VBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 300KHz   |
|                            | Span                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3MHz     |
|                            | Sweep Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Auto     |
|                            | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Peak     |
|                            | Trace Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Max Hold |

### 6.2.1. EUT Operation

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 25.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101.1 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.

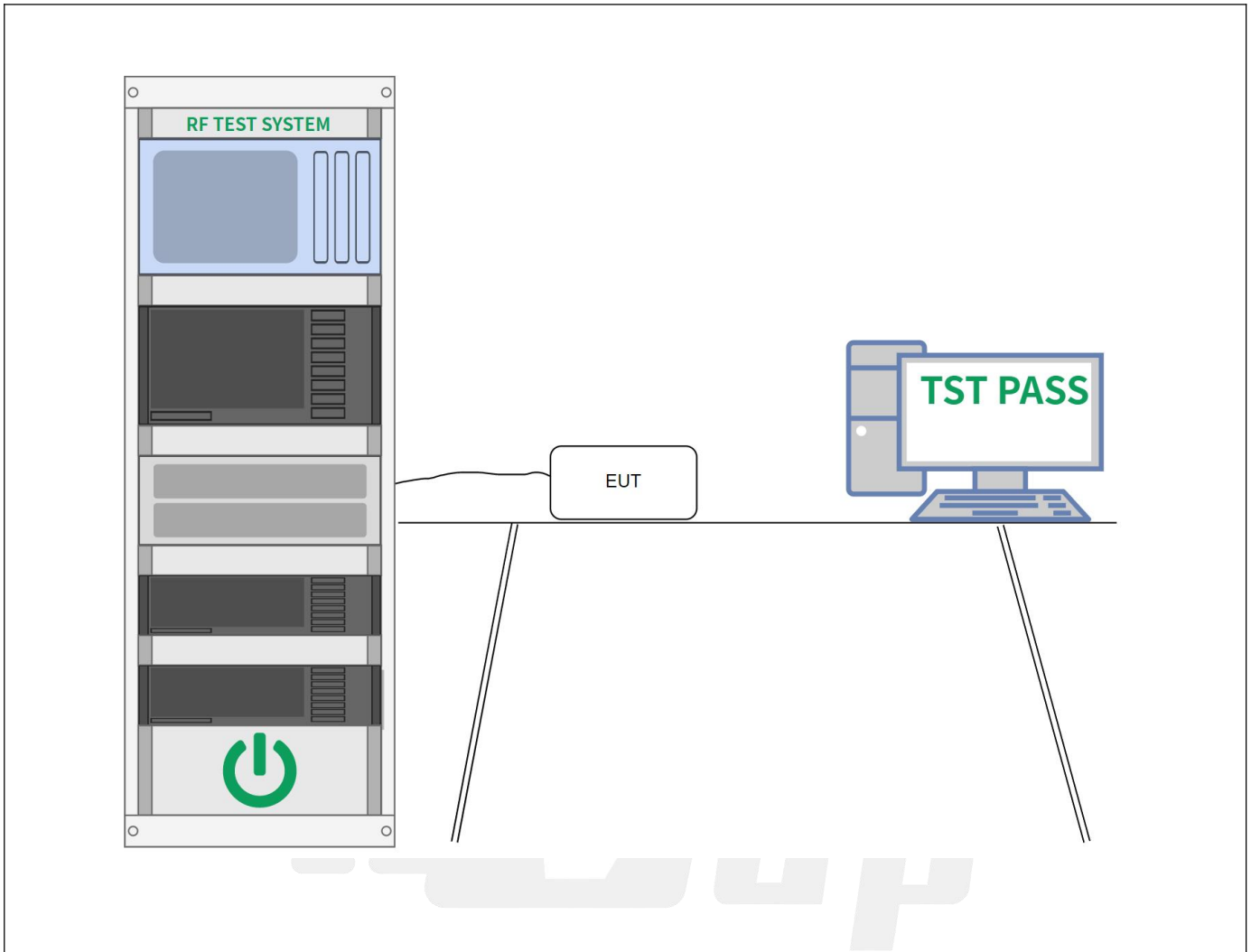
### 6.3. Maximum Conducted Output Power

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 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 section 11.9.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
| Procedure:                 | ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |
| Spectrum Analyzer Setting: | Spectrum Analyzer Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Setting          |
|                            | RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | >DTS Bandwidth   |
|                            | VBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3*RBW            |
|                            | Span                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | >3*DTS Bandwidth |
|                            | Sweep Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Auto             |
|                            | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Peak             |
|                            | Trace Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Max Hold         |

#### 6.3.1. EUT Operation

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 25.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101.1 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.

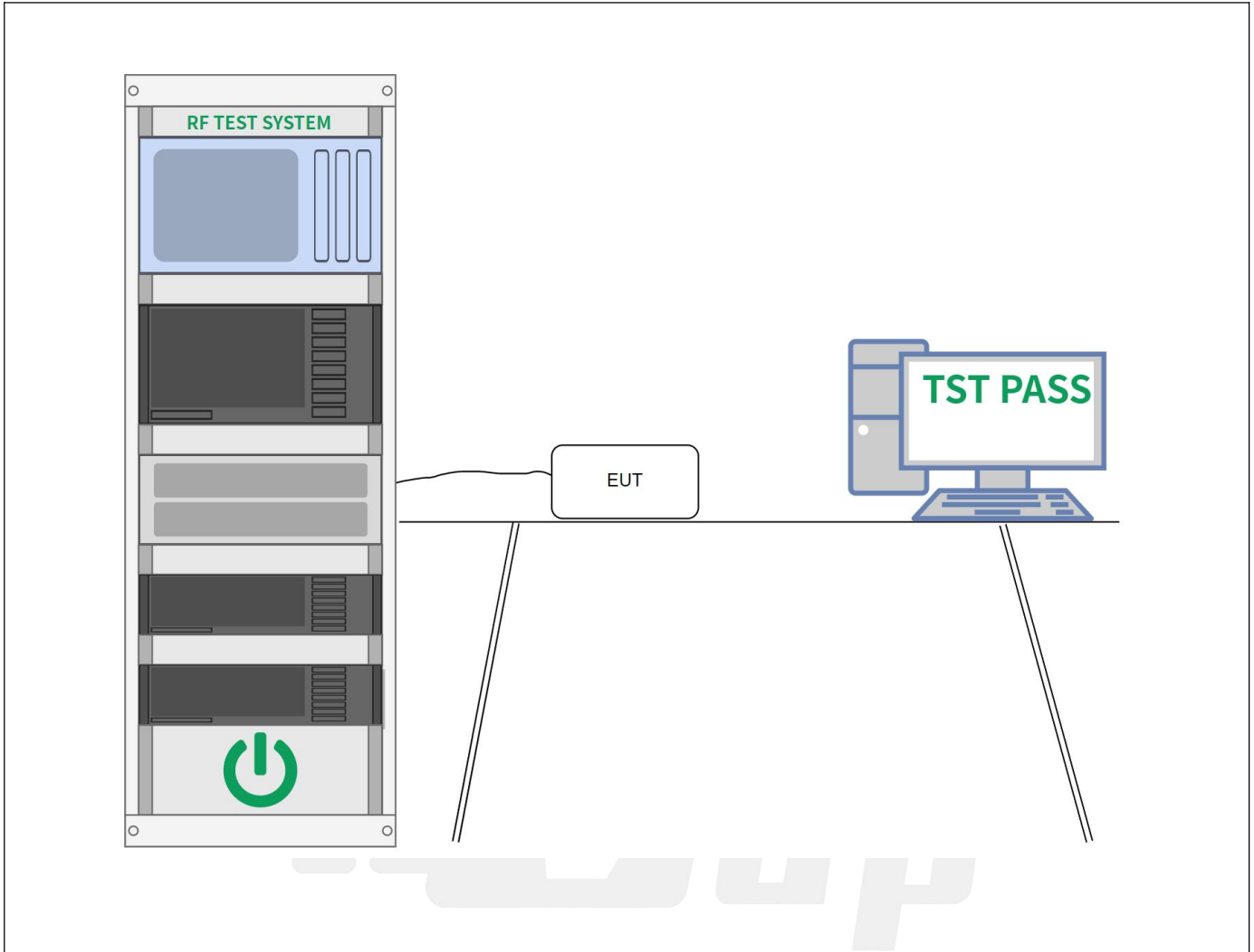
## 6.4. Power Spectral Density

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 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, section 11.10                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |
| Procedure:                 | ANSI C63.10-2020+Cor 1-2023, section 11.10, Maximum power spectral density level in the fundamental emission                                                                                                                                                                                                                                                                                                                                                                              |                             |
| Spectrum Analyzer Setting: | Spectrum Analyzer Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Setting                     |
|                            | RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3KHz                        |
|                            | VBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10KHz                       |
|                            | Span                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.5 times the DTS bandwidth |
|                            | Sweep Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Auto                        |
|                            | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Peak                        |
|                            | Trace Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Max Hold                    |

### 6.4.1. EUT Operation

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 25.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101.1 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.

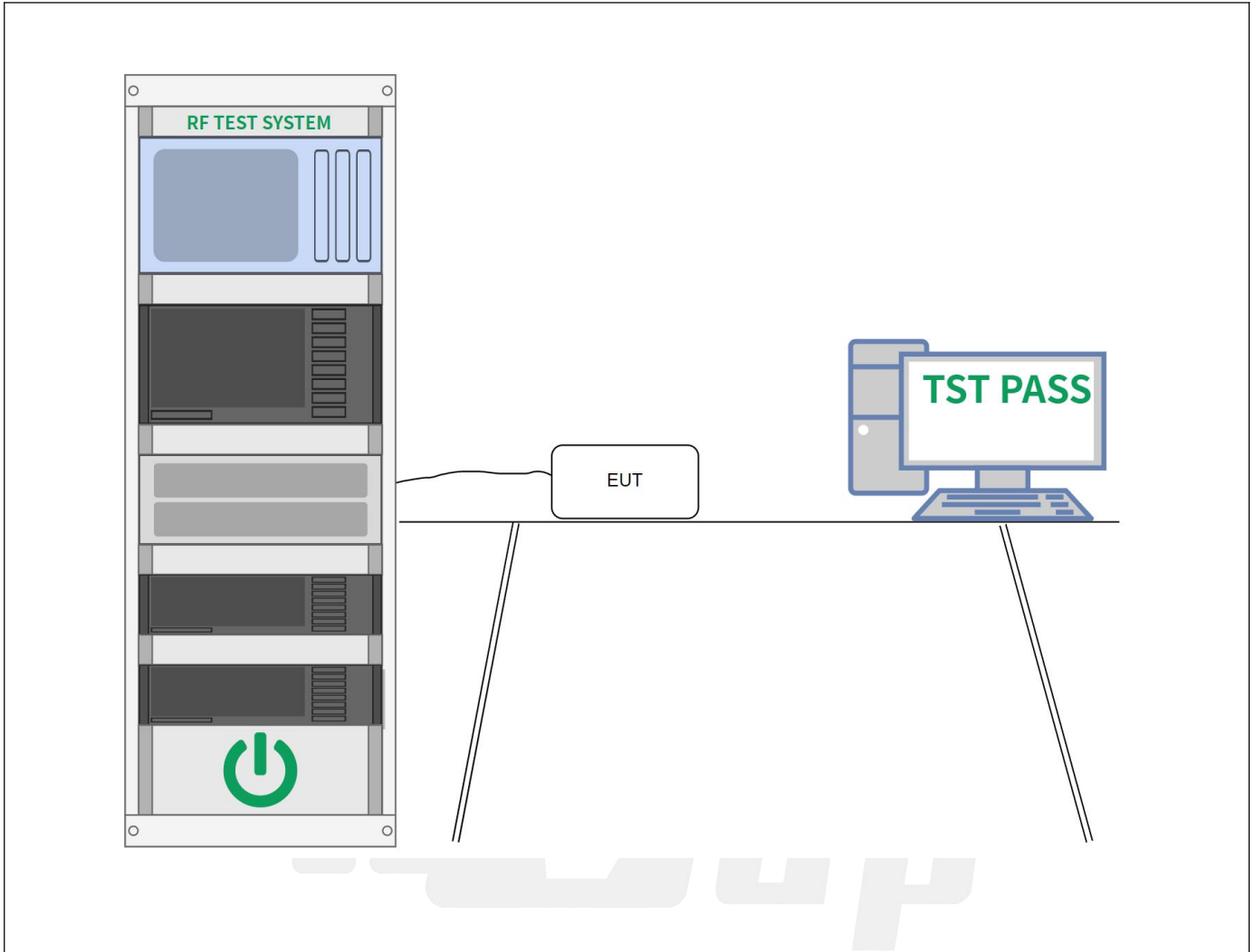
## 6.5. Emissions in non-restricted frequency bands

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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 section 11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |
| Procedure:                 | ANSI C63.10-2020<br>Section 11.11.1, Section 11.11.2, Section 11.11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |
| Spectrum Analyzer Setting: | Spectrum Analyzer Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Setting  |
|                            | RBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100KHz   |
|                            | VBW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 300KHz   |
|                            | Start frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30MHz    |
|                            | Stop frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 26.5GHz  |
|                            | Sweep Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Auto     |
|                            | Detector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Peak     |
|                            | Trace Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Max Hold |

### 6.5.1. EUT Operation

|                        |         |           |      |                       |           |
|------------------------|---------|-----------|------|-----------------------|-----------|
| Operating Environment: |         |           |      |                       |           |
| Temperature:           | 25.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101.1 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 section 6.10                                                                                                                                                                                           |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 section 6.10.5.2                                                                                                                                                                                       |                                   |                               |
| Spectrum Analyzer Setting:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Spectrum Analyzer Setting                                                                                                                                                                                               | Setting                           |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RBW                                                                                                                                                                                                                     | 1MHz                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VBW                                                                                                                                                                                                                     | PEAK Measurement                  | AVG Measurement               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         | 3MHz                              | Duty cycle ≥ 98%, VBW=10Hz    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   | Duty cycle < 98%, VBW ≥ 1/T   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Start frequency                                                                                                                                                                                                         | 2.35GHz                           |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stop frequency                                                                                                                                                                                                          | 2.50GHz                           |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sweep Time                                                                                                                                                                                                              | Auto                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Detector                                                                                                                                                                                                                | Peak                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trace Mode                                                                                                                                                                                                              | Max Hold                          |                               |

### 6.6.1. EUT Operation

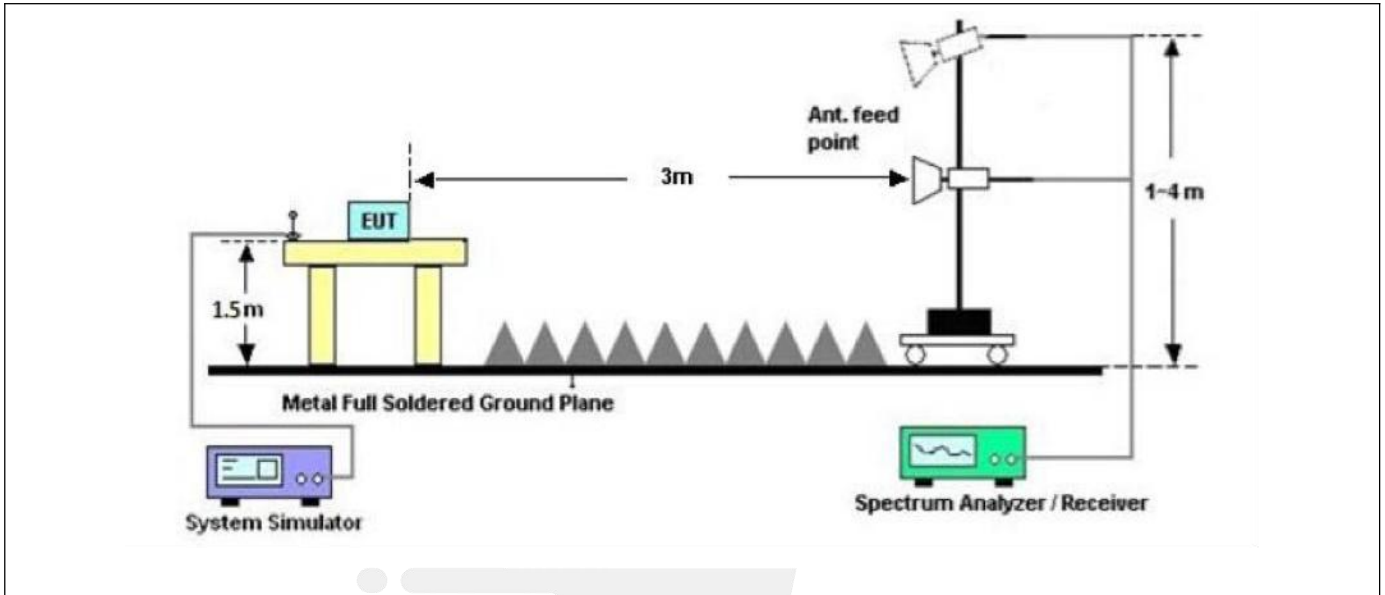
Operating Environment:

|              |         |           |      |                       |           |
|--------------|---------|-----------|------|-----------------------|-----------|
| Temperature: | 25.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101.1 kPa |
|--------------|---------|-----------|------|-----------------------|-----------|

|                |     |
|----------------|-----|
| Pre test mode: | TM1 |
|----------------|-----|

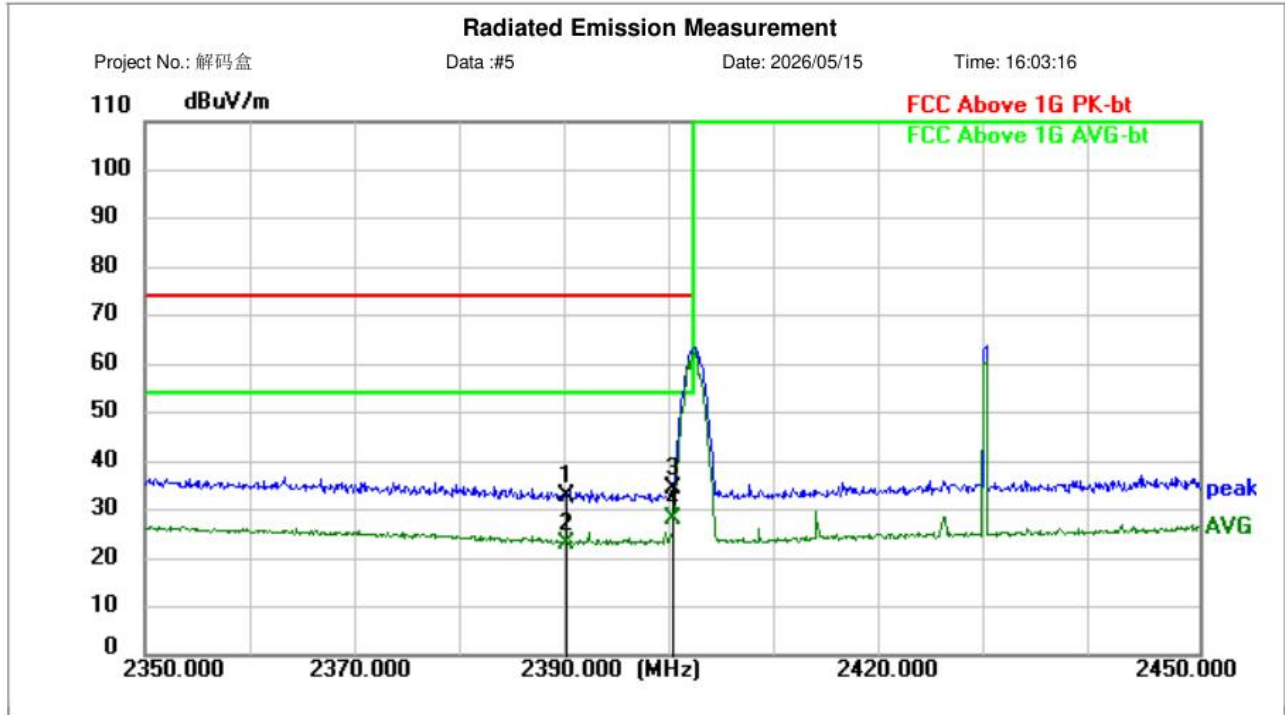
|                  |     |
|------------------|-----|
| Final test mode: | TM1 |
|------------------|-----|

### 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-bt

EUT:

M/N: 2402

Mode:

Note:

Polarization: **Horizontal**

Power:

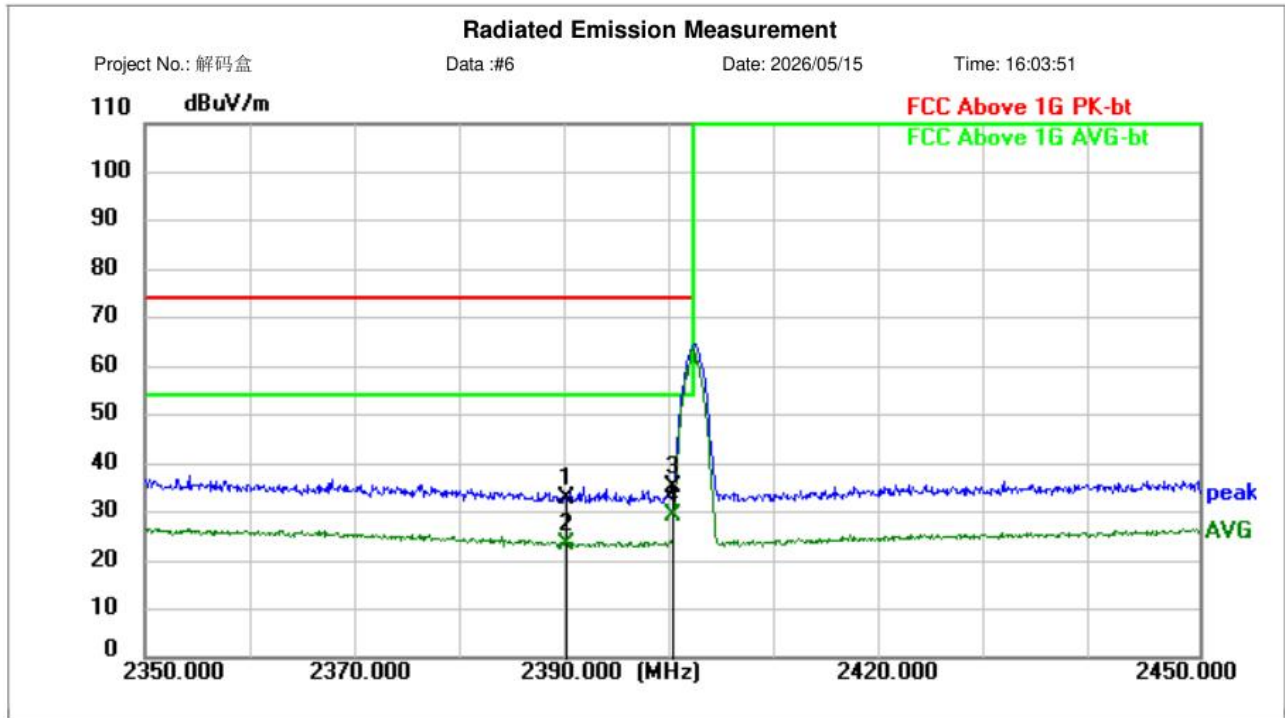
Distance: 3m

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       | 58.19          | -25.27        | 32.92          | 74.00          | -41.08      | peak     | 149         | 360            | P   |        |
| 2   | 2390.0000       | 48.38          | -25.27        | 23.11          | 54.00          | -30.89      | AVG      | 149         | 360            | P   |        |
| 3   | 2400.0000       | 60.16          | -25.87        | 34.29          | 74.00          | -39.71      | peak     | 149         | 360            | P   |        |
| 4 * | 2400.0000       | 53.91          | -25.87        | 28.04          | 54.00          | -25.96      | AVG      | 149         | 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-bt

Power:

Humidity: 54 %RH

EUT:

Distance: 3m

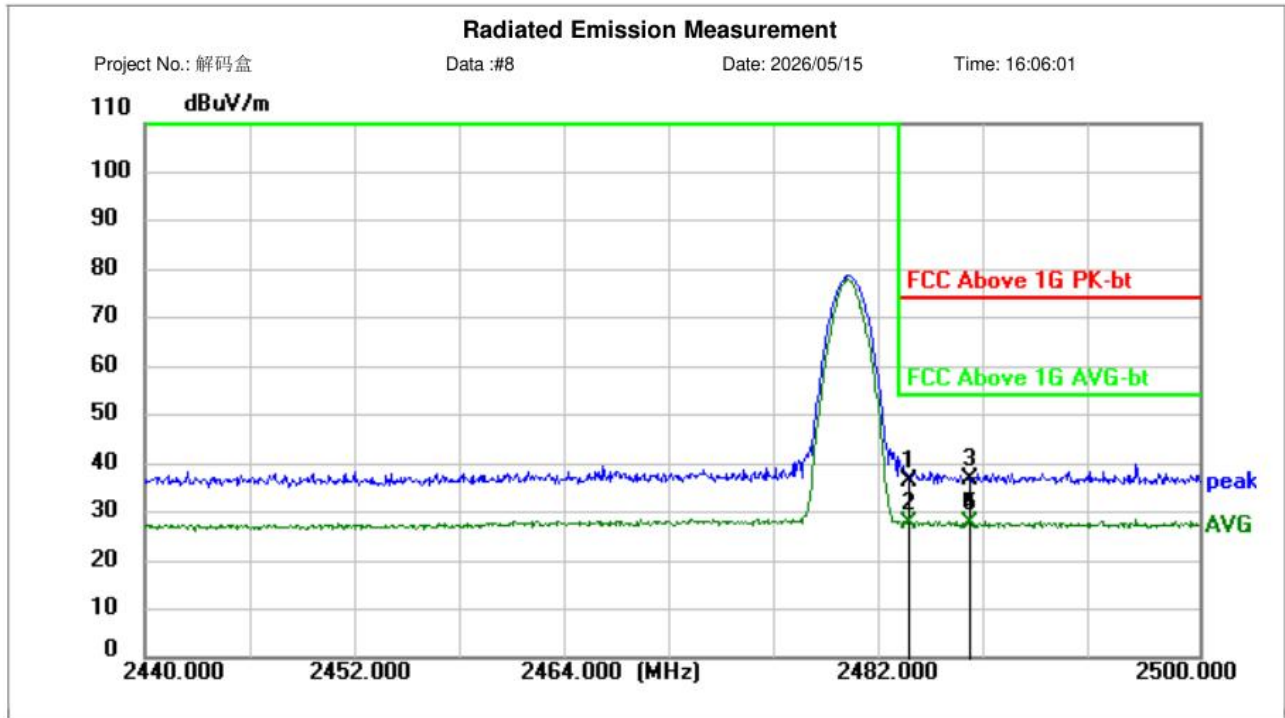
M/N: 2402

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       | 55.47          | -22.71        | 32.76          | 74.00          | -41.24      | peak     | 149         | 360            | P   |        |
| 2   | 2390.0000       | 46.09          | -22.71        | 23.38          | 54.00          | -30.62      | AVG      | 149         | 360            | P   |        |
| 3   | 2400.0000       | 57.94          | -22.67        | 35.27          | 74.00          | -38.73      | peak     | 149         | 360            | P   |        |
| 4 * | 2400.0000       | 51.99          | -22.67        | 29.32          | 54.00          | -24.68      | AVG      | 149         | 360            | P   |        |

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



Site LAB

Limit: FCC Above 1G PK-bt

EUT:

M/N: 2402

Mode:

Note:

Polarization: **Horizontal**

Power:

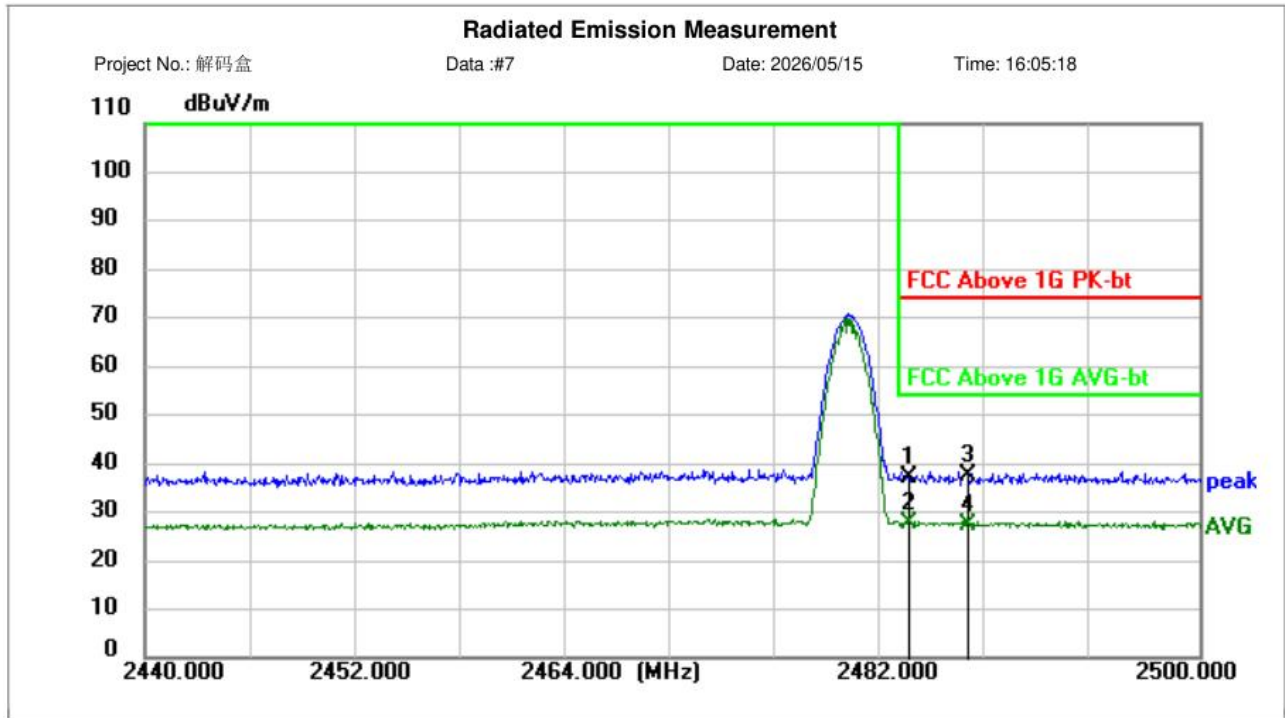
Distance: 3m

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       | 59.15          | -22.81        | 36.34          | 74.00          | -37.66      | peak     | 149         | 360            | P   |        |
| 2 * | 2483.5000       | 50.47          | -22.81        | 27.66          | 54.00          | -26.34      | AVG      | 149         | 360            | P   |        |
| 3   | 2486.9000       | 59.50          | -22.78        | 36.72          | 74.00          | -37.28      | peak     | 149         | 360            | P   |        |
| 4   | 2486.9000       | 50.32          | -22.78        | 27.54          | 54.00          | -26.46      | AVG      | 149         | 360            | P   |        |
| 5   | 2486.9000       | 50.32          | -22.78        | 27.54          | 54.00          | -26.46      | AVG      | 149         | 360            | P   |        |

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



Site LAB

Limit: FCC Above 1G PK-bt

EUT:

M/N: 2402

Mode:

Note:

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 26 ℃

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       | 59.31          | -22.27        | 37.04          | 74.00          | -36.96      | peak     | 149         | 360            | P   |        |
| 2 * | 2483.5000       | 49.83          | -22.27        | 27.56          | 54.00          | -26.44      | AVG      | 149         | 360            | P   |        |
| 3   | 2486.8000       | 59.76          | -22.26        | 37.50          | 74.00          | -36.50      | peak     | 149         | 360            | P   |        |
| 4   | 2486.8000       | 49.61          | -22.26        | 27.35          | 54.00          | -26.65      | AVG      | 149         | 360            | P   |        |

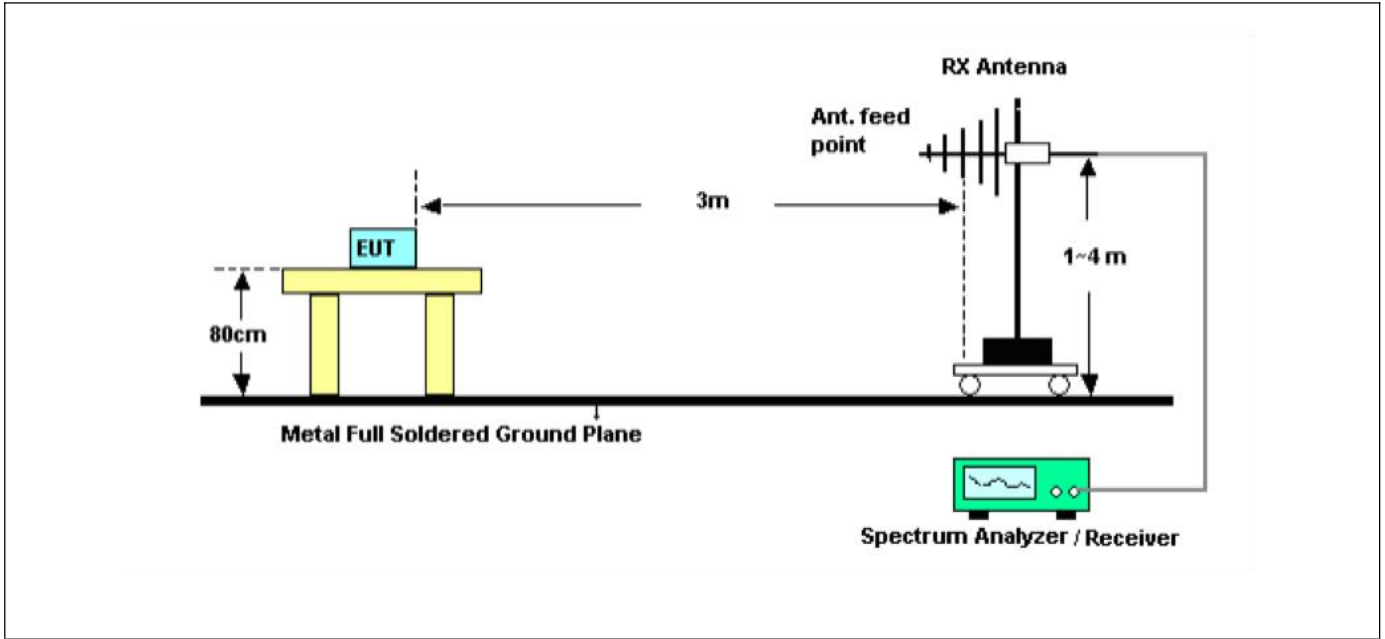
## 6.7. Emissions in frequency bands (below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| 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 section 6.5.4                                                                                                                                                                                          |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 section 6.5.4                                                                                                                                                                                          |                                   |                               |
| Spectrum Analyzer Setting:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Spectrum Analyzer Setting                                                                                                                                                                                               | Setting                           |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RBW                                                                                                                                                                                                                     | 120KHz                            |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VBW                                                                                                                                                                                                                     | 300KHz                            |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Start frequency                                                                                                                                                                                                         | 30MHz                             |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stop frequency                                                                                                                                                                                                          | 1GHz                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sweep Time                                                                                                                                                                                                              | Auto                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Detector                                                                                                                                                                                                                | QP                                |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trace Mode                                                                                                                                                                                                              | Max Hold                          |                               |

### 6.7.1. EUT Operation

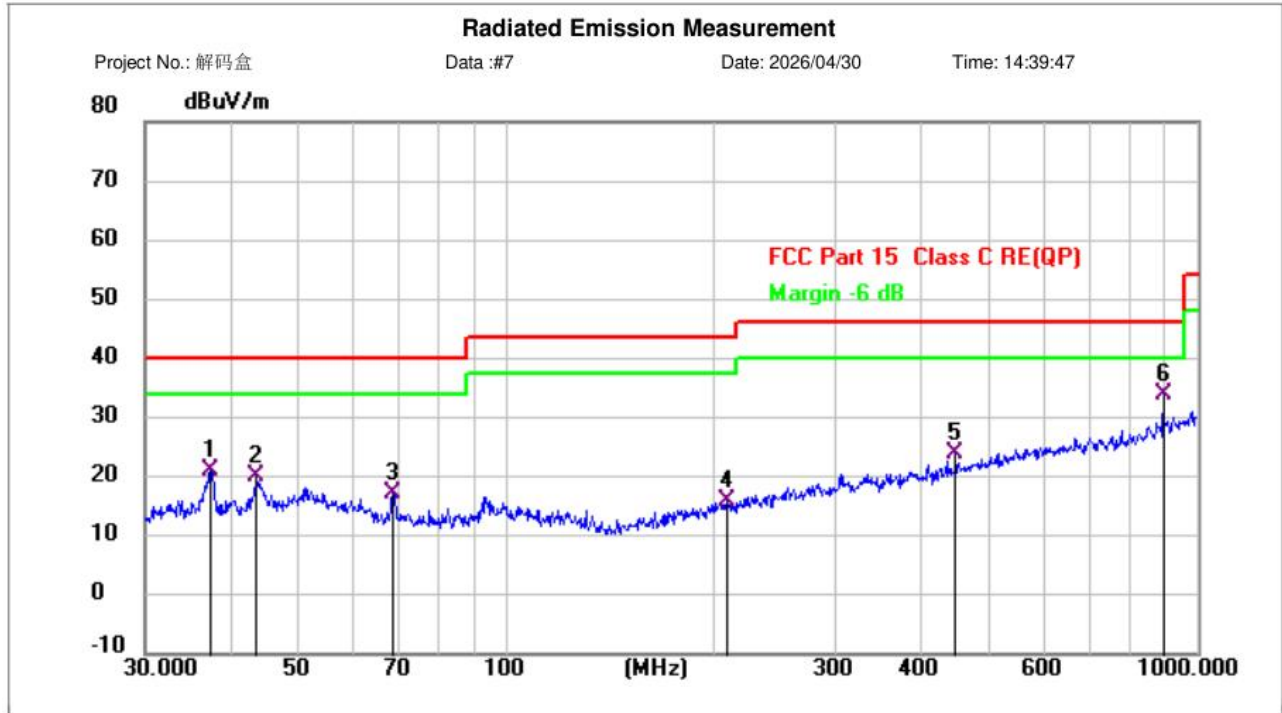
|                        |         |     |           |      |                       |           |
|------------------------|---------|-----|-----------|------|-----------------------|-----------|
| Operating Environment: |         |     |           |      |                       |           |
| Temperature:           | 25.7 °C |     | Humidity: | 54 % | Atmospheric Pressure: | 101.1 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: working

Mode:

Note:

Polarization: **Horizontal**

Power:

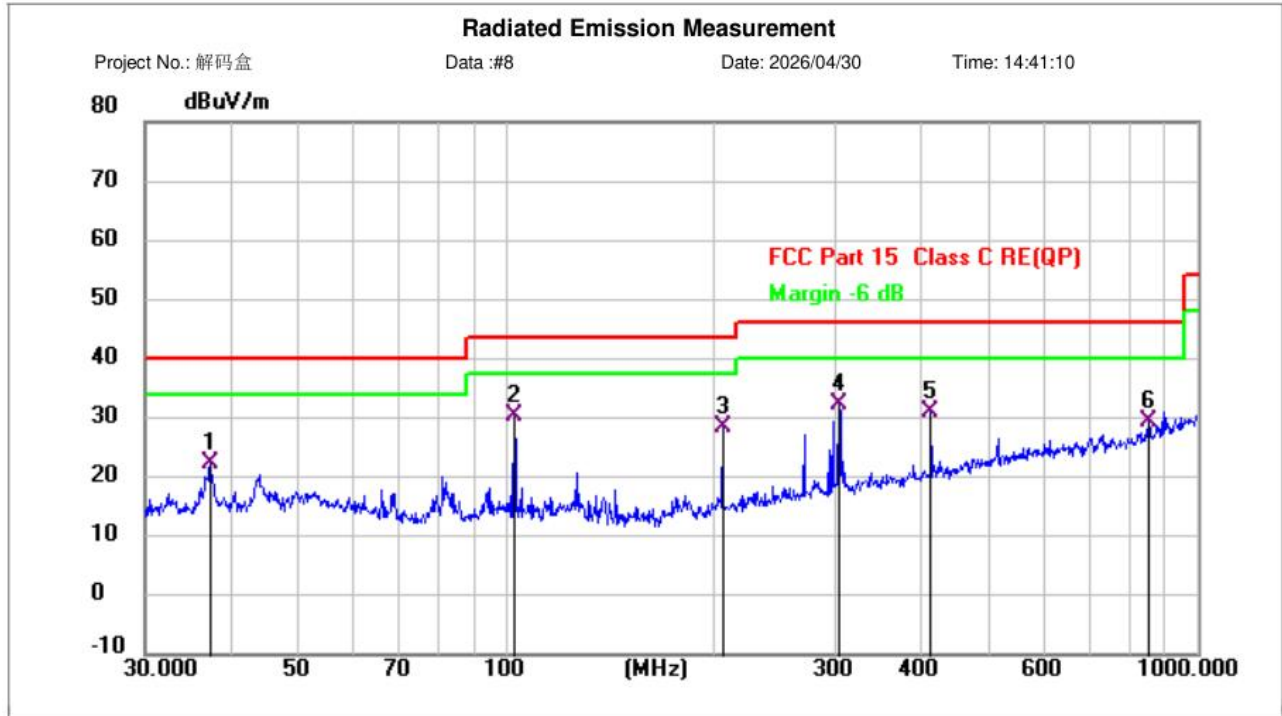
Distance: 3m

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   | 37.2855         | 32.54          | -11.58        | 20.96          | 40.00          | -19.04      | QP       | 100         | 0              | P   |        |
| 2   | 43.5057         | 31.00          | -11.00        | 20.00          | 40.00          | -20.00      | QP       | 100         | 0              | P   |        |
| 3   | 68.3908         | 30.23          | -13.03        | 17.20          | 40.00          | -22.80      | QP       | 100         | 0              | P   |        |
| 4   | 209.3129        | 26.75          | -10.81        | 15.94          | 43.50          | -27.56      | QP       | 100         | 0              | P   |        |
| 5   | 446.4141        | 28.66          | -4.72         | 23.94          | 46.00          | -22.06      | QP       | 100         | 0              | P   |        |
| 6 * | 893.8567        | 32.78          | 1.02          | 33.80          | 46.00          | -12.20      | QP       | 100         | 0              | 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: working

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   | 37.2855         | 33.88          | -11.58        | 22.30          | 40.00          | -17.70      | QP       | 100         | 360            | P   |        |
| 2 * | 102.7192        | 42.08          | -11.78        | 30.30          | 43.50          | -13.20      | QP       | 100         | 360            | P   |        |
| 3   | 205.6751        | 39.35          | -10.93        | 28.42          | 43.50          | -15.08      | QP       | 100         | 360            | P   |        |
| 4   | 302.4812        | 39.91          | -7.61         | 32.30          | 46.00          | -13.70      | QP       | 100         | 360            | P   |        |
| 5   | 411.8240        | 36.60          | -5.58         | 31.02          | 46.00          | -14.98      | QP       | 100         | 360            | P   |        |
| 6   | 851.0353        | 29.02          | 0.39          | 29.41          | 46.00          | -16.59      | QP       | 100         | 360            | P   |        |

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

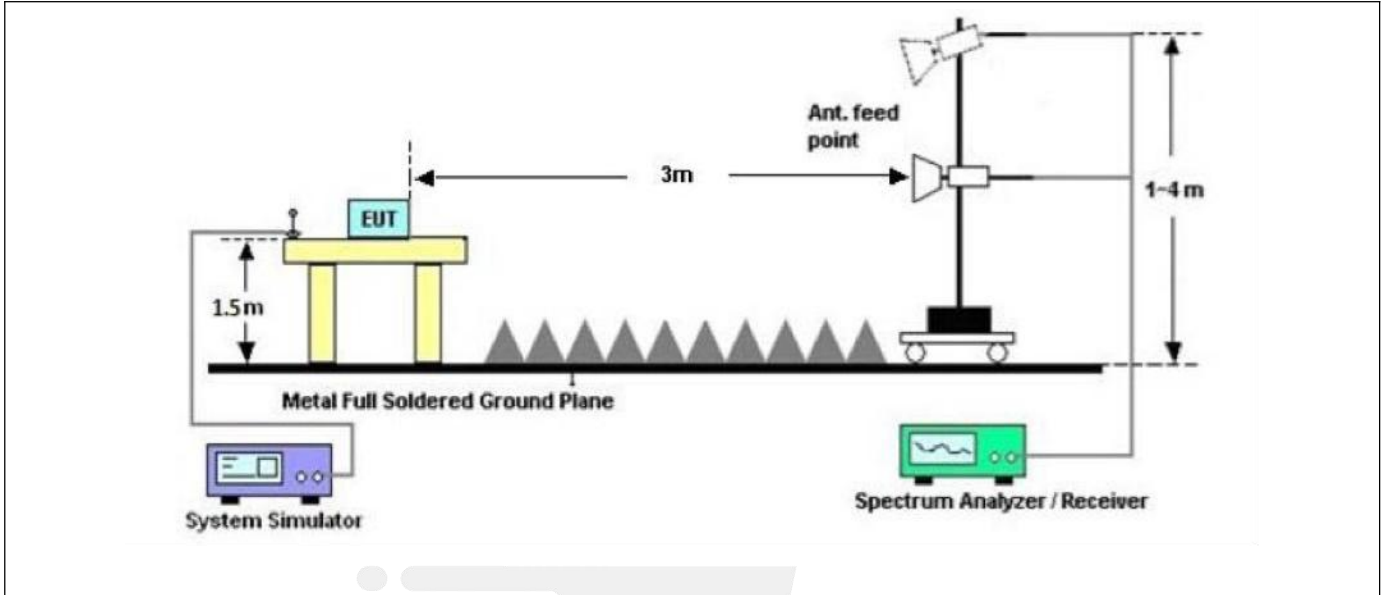
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| 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 section 6.5.4                                                                                                                                                                                          |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ANSI C63.10-2020 section 6.5.4                                                                                                                                                                                          |                                   |                               |
| Spectrum Analyzer Setting:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Spectrum Analyzer Setting                                                                                                                                                                                               | Setting                           |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RBW                                                                                                                                                                                                                     | 1MHz                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VBW                                                                                                                                                                                                                     | PEAK Measurement                  | AVG Measurement               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         | 3MHz                              | Duty cycle ≥ 98%, VBW=10Hz    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |                                   | Duty cycle < 98%, VBW ≥ 1/T   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Start frequency                                                                                                                                                                                                         | 1GHz                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Stop frequency                                                                                                                                                                                                          | 40GHz                             |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sweep Time                                                                                                                                                                                                              | Auto                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Detector                                                                                                                                                                                                                | Peak                              |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Trace Mode                                                                                                                                                                                                              | Max Hold                          |                               |

### 6.8.1. EUT Operation

Operating Environment:

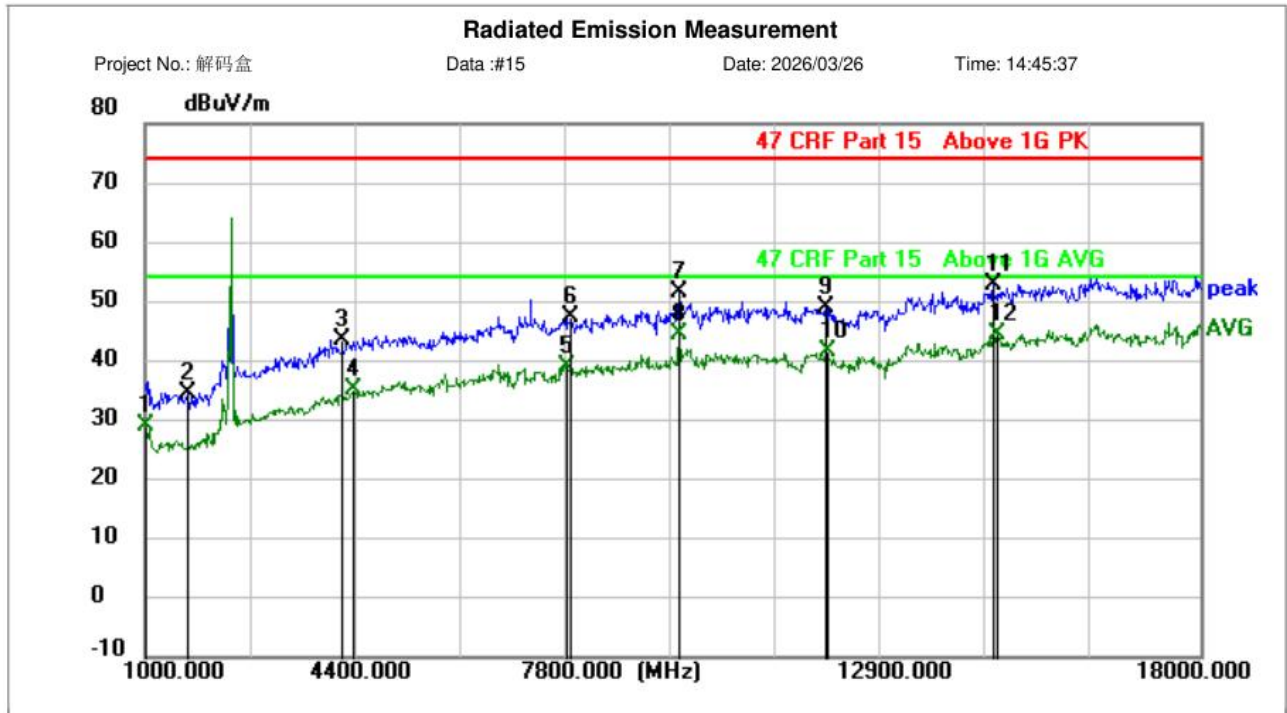
|                  |         |           |      |                       |           |
|------------------|---------|-----------|------|-----------------------|-----------|
| Temperature:     | 25.7 °C | Humidity: | 54 % | Atmospheric Pressure: | 101.1 kPa |
| Pre test mode:   | TM1     |           |      |                       |           |
| 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: 2402

Mode: 1M

Note:

Polarization: **Horizontal**

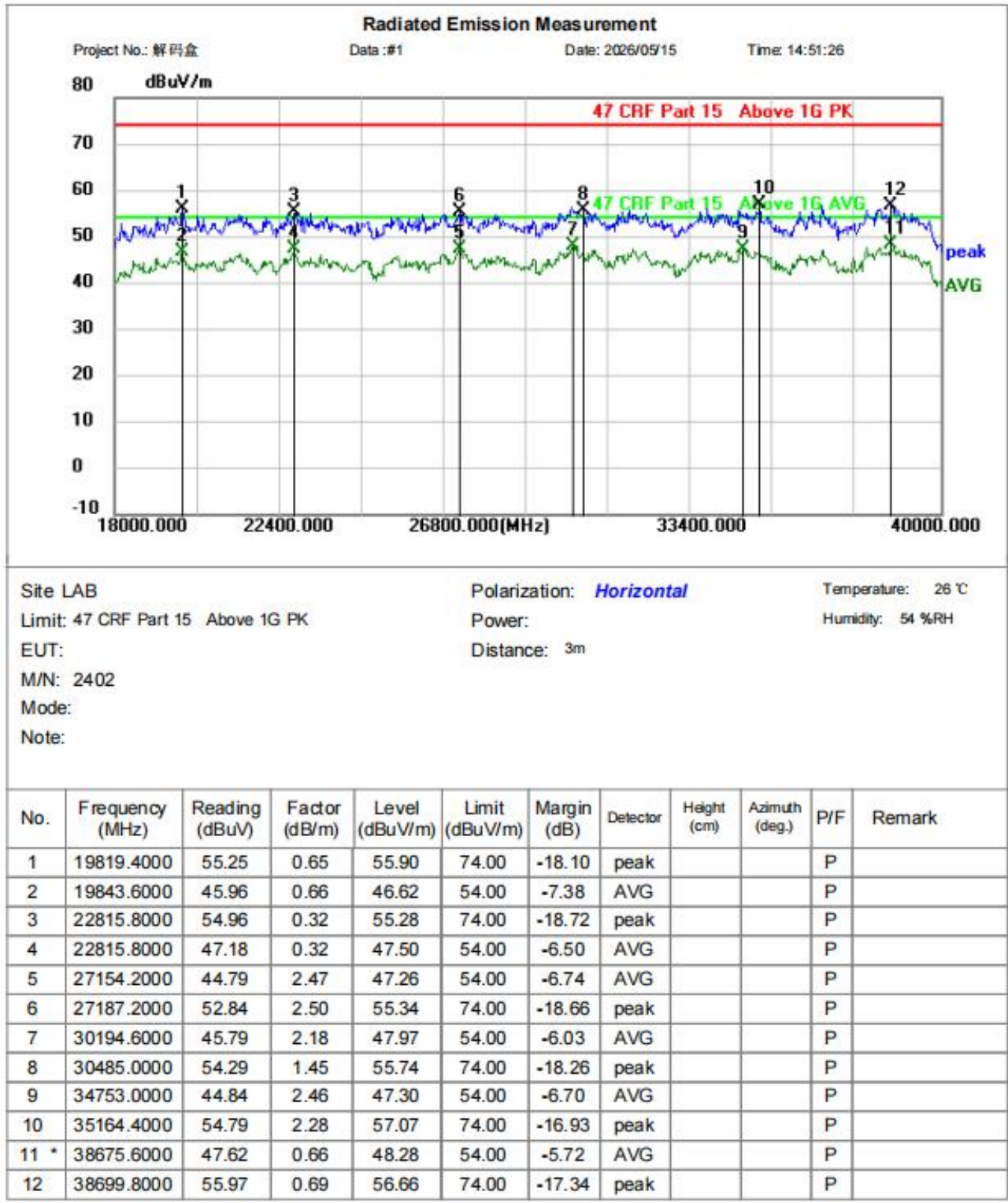
Power:

Distance: 3m

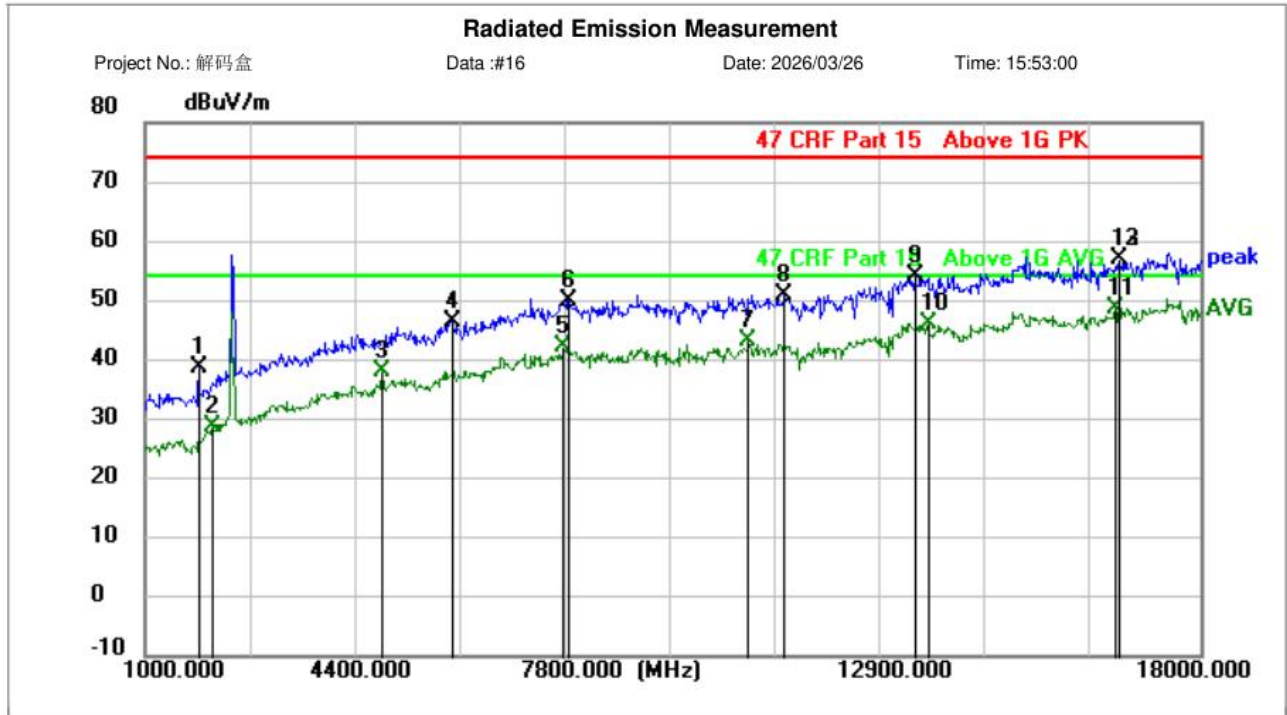
Temperature: 26 °C

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    | 1018.7000       | 55.03          | -26.08        | 28.95          | 54.00          | -25.05      | AVG      | 100         | 360            | P   |        |
| 2    | 1669.8000       | 59.89          | -25.38        | 34.51          | 74.00          | -39.49      | peak     | 100         | 360            | P   |        |
| 3    | 4194.3000       | 62.23          | -18.77        | 43.46          | 74.00          | -30.54      | peak     | 100         | 360            | P   |        |
| 4    | 4366.0000       | 53.24          | -18.08        | 35.16          | 54.00          | -18.84      | AVG      | 100         | 360            | P   |        |
| 5    | 7771.1000       | 49.18          | -10.01        | 39.17          | 54.00          | -14.83      | AVG      | 100         | 360            | P   |        |
| 6    | 7854.4000       | 57.09          | -9.61         | 47.48          | 74.00          | -26.52      | peak     | 100         | 360            | P   |        |
| 7    | 9608.8000       | 56.43          | -4.81         | 51.62          | 74.00          | -22.38      | peak     | 100         | 360            | P   |        |
| 8    | 9608.8000       | 49.15          | -4.81         | 44.34          | 54.00          | -9.66       | AVG      | 100         | 360            | P   |        |
| 9    | 11951.4000      | 50.72          | -1.84         | 48.88          | 74.00          | -25.12      | peak     | 100         | 360            | P   |        |
| 10   | 12010.9000      | 43.33          | -1.77         | 41.56          | 54.00          | -12.44      | AVG      | 100         | 360            | P   |        |
| 11   | 14674.8000      | 54.20          | -1.27         | 52.93          | 74.00          | -21.07      | peak     | 100         | 360            | P   |        |
| 12 * | 14742.8000      | 45.63          | -1.08         | 44.55          | 54.00          | -9.45       | AVG      | 100         | 360            | P   |        |



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: 2402

Mode: 1M

Note:

Polarization: **Vertical**

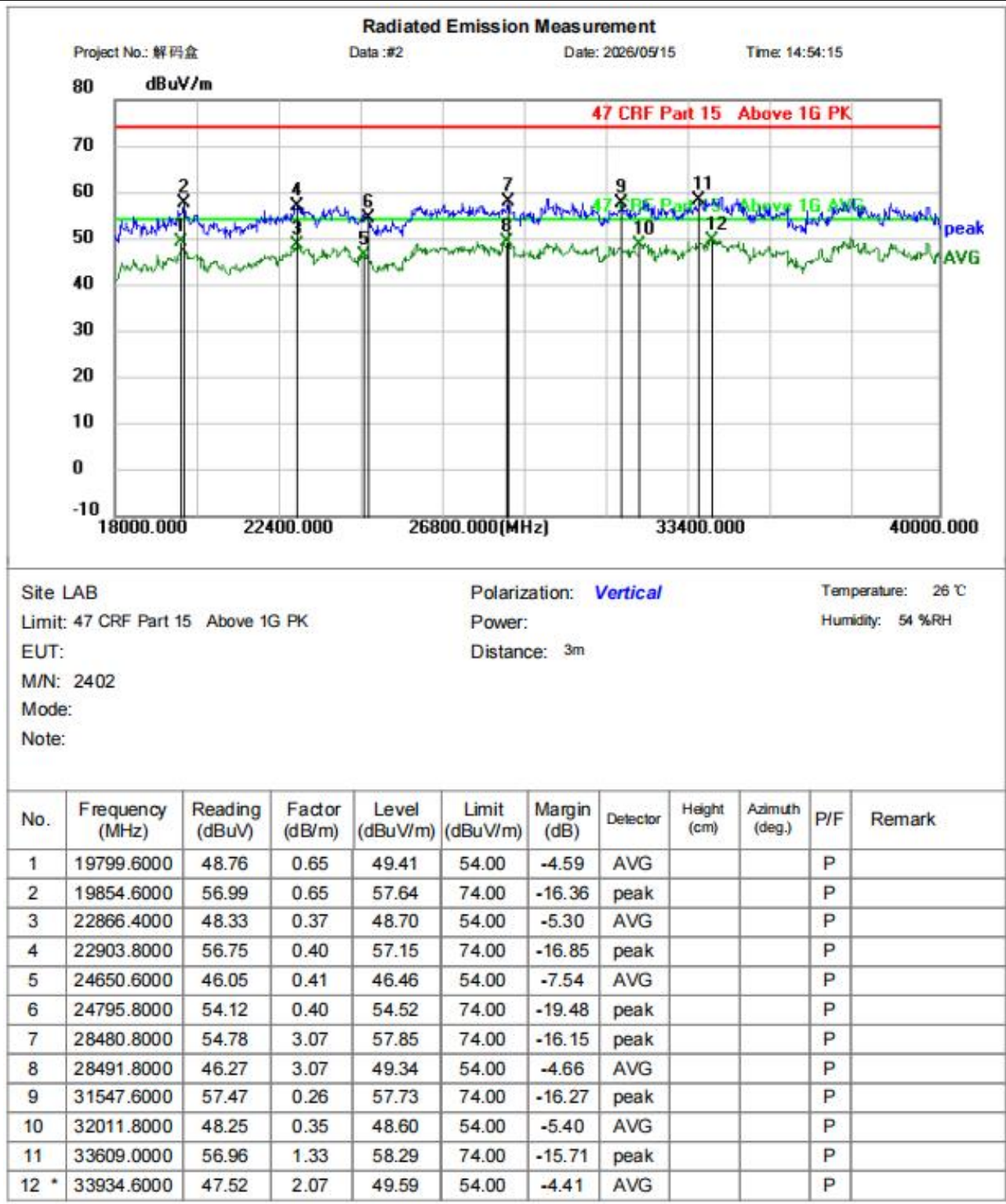
Power:

Distance: 3m

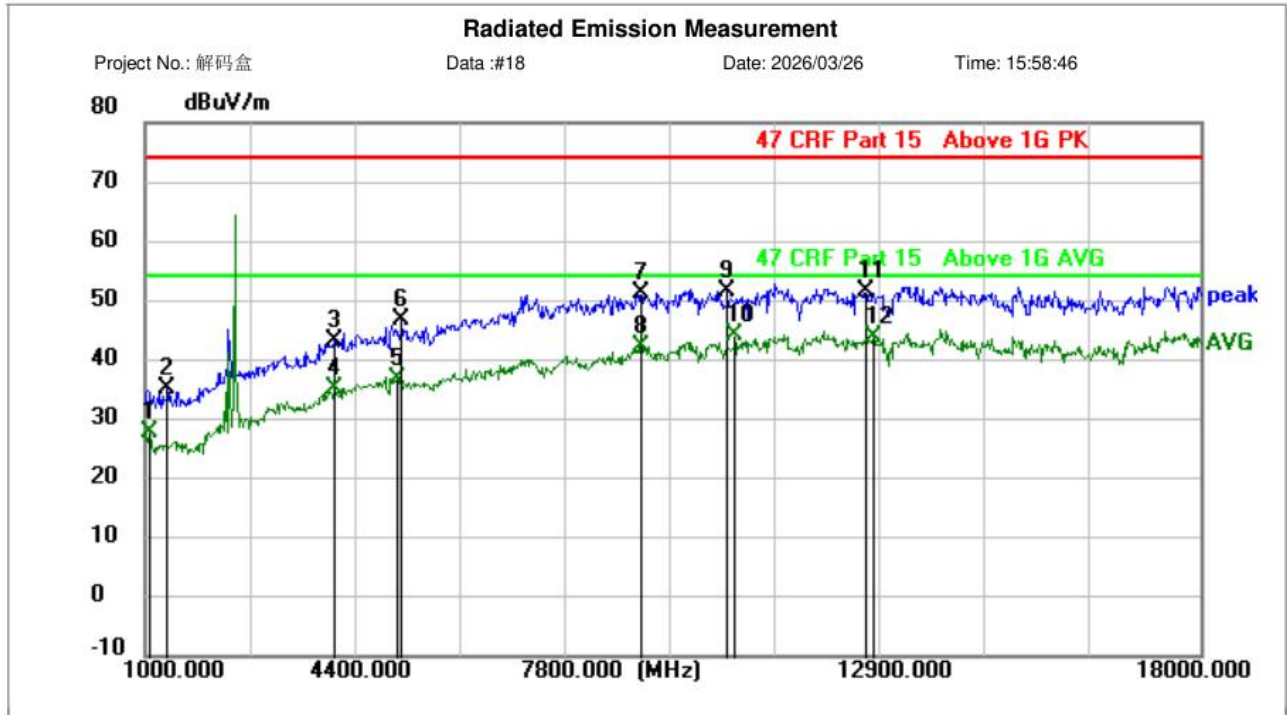
Temperature: 26 °C

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    | 1870.4000       | 63.57          | -25.02        | 38.55          | 74.00          | -35.45      | peak     |             |                | P   |        |
| 2    | 2079.5000       | 52.06          | -23.46        | 28.60          | 54.00          | -25.40      | AVG      |             |                | P   |        |
| 3    | 4802.9000       | 55.09          | -16.92        | 38.17          | 54.00          | -15.83      | AVG      |             |                | P   |        |
| 4    | 5931.7000       | 60.69          | -14.23        | 46.46          | 74.00          | -27.54      | peak     |             |                | P   |        |
| 5    | 7749.0000       | 52.42          | -10.09        | 42.33          | 54.00          | -11.67      | AVG      |             |                | P   |        |
| 6    | 7845.9000       | 59.58          | -9.65         | 49.93          | 74.00          | -24.07      | peak     |             |                | P   |        |
| 7    | 10713.8000      | 45.36          | -2.11         | 43.25          | 54.00          | -10.75      | AVG      |             |                | P   |        |
| 8    | 11298.6000      | 52.06          | -1.16         | 50.90          | 74.00          | -23.10      | peak     |             |                | P   |        |
| 9    | 13404.9000      | 56.93          | -2.67         | 54.26          | 74.00          | -19.74      | peak     |             |                | P   |        |
| 10   | 13622.5000      | 48.84          | -2.74         | 46.10          | 54.00          | -7.90       | AVG      |             |                | P   |        |
| 11 * | 16631.5000      | 50.11          | -1.31         | 48.80          | 54.00          | -5.20       | AVG      |             |                | P   |        |
| 12   | 16725.0000      | 58.22          | -1.32         | 56.90          | 74.00          | -17.10      | peak     |             |                | P   |        |



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: 2440

Mode: 1M

Note:

Polarization: **Vertical**

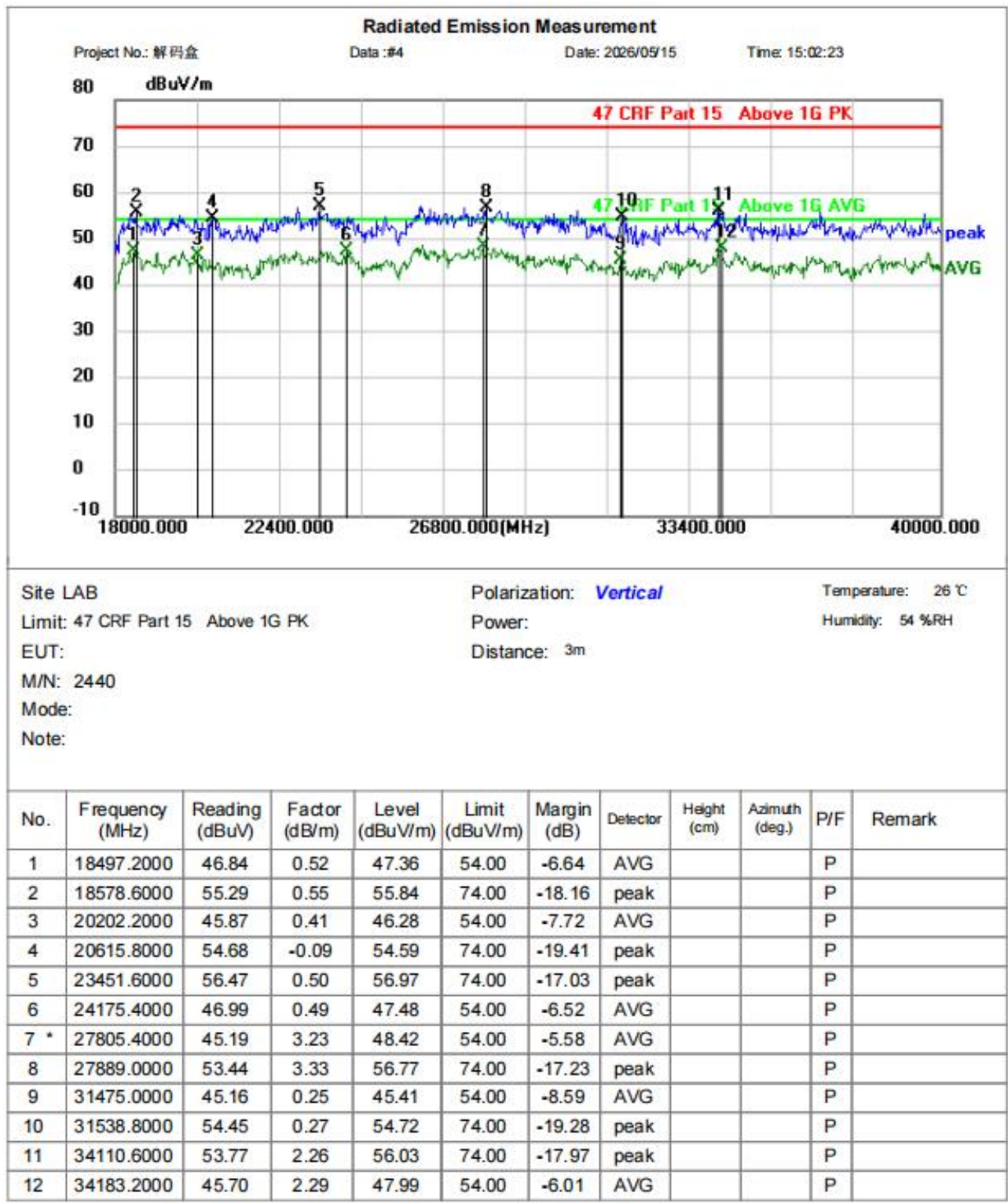
Power:

Distance: 3m

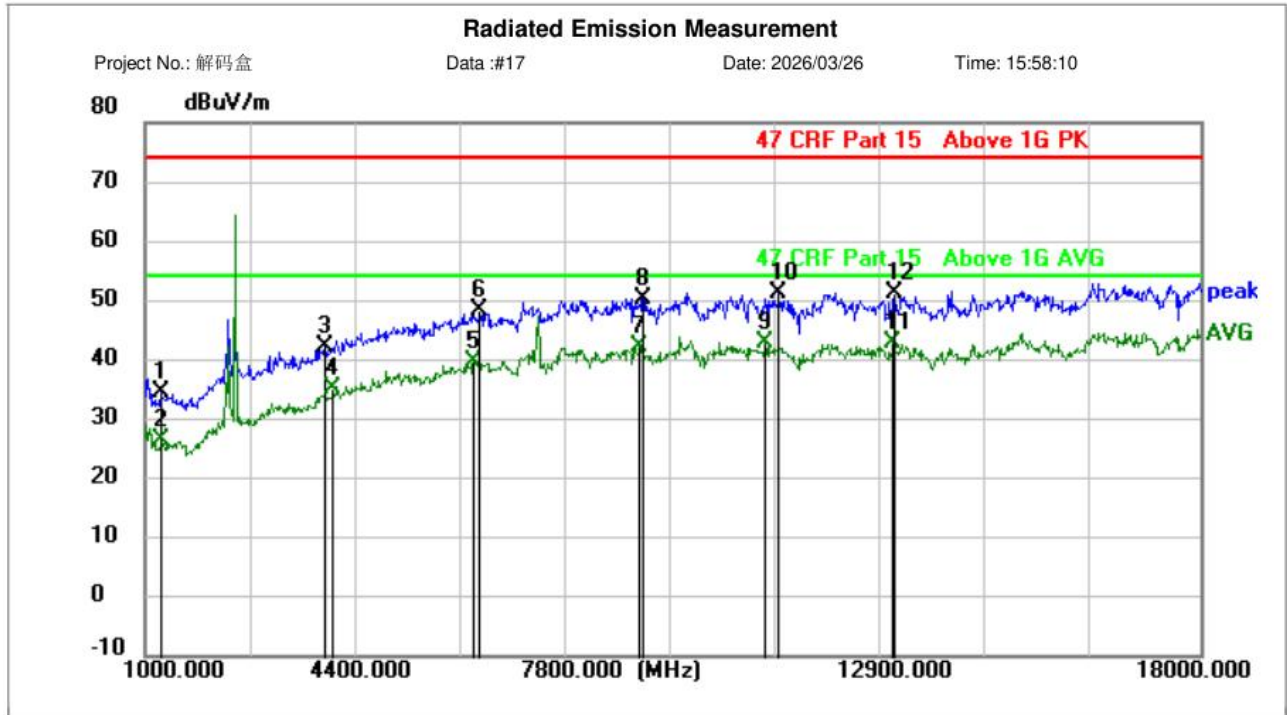
Temperature: 26 °C

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    | 1091.8000       | 53.53          | -25.67        | 27.86          | 54.00          | -26.14      | AVG      |             |                | P   |        |
| 2    | 1372.3000       | 60.64          | -25.33        | 35.31          | 74.00          | -38.69      | peak     |             |                | P   |        |
| 3    | 4070.2000       | 62.06          | -18.96        | 43.10          | 74.00          | -30.90      | peak     |             |                | P   |        |
| 4    | 4070.2000       | 54.26          | -18.96        | 35.30          | 54.00          | -18.70      | AVG      |             |                | P   |        |
| 5    | 5068.1000       | 53.00          | -16.13        | 36.87          | 54.00          | -17.13      | AVG      |             |                | P   |        |
| 6    | 5134.4000       | 62.78          | -16.09        | 46.69          | 74.00          | -27.31      | peak     |             |                | P   |        |
| 7    | 9020.6000       | 56.78          | -5.44         | 51.34          | 74.00          | -22.66      | peak     |             |                | P   |        |
| 8    | 9020.6000       | 47.82          | -5.44         | 42.38          | 54.00          | -11.62      | AVG      |             |                | P   |        |
| 9    | 10373.8000      | 54.85          | -3.23         | 51.62          | 74.00          | -22.38      | peak     |             |                | P   |        |
| 10 * | 10520.0000      | 46.97          | -2.89         | 44.08          | 54.00          | -9.92       | AVG      |             |                | P   |        |
| 11   | 12634.8000      | 54.26          | -2.60         | 51.66          | 74.00          | -22.34      | peak     |             |                | P   |        |
| 12   | 12753.8000      | 46.44          | -2.58         | 43.86          | 54.00          | -10.14      | AVG      |             |                | P   |        |



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: 2440

Mode: 1M

Note:

Polarization: **Horizontal**

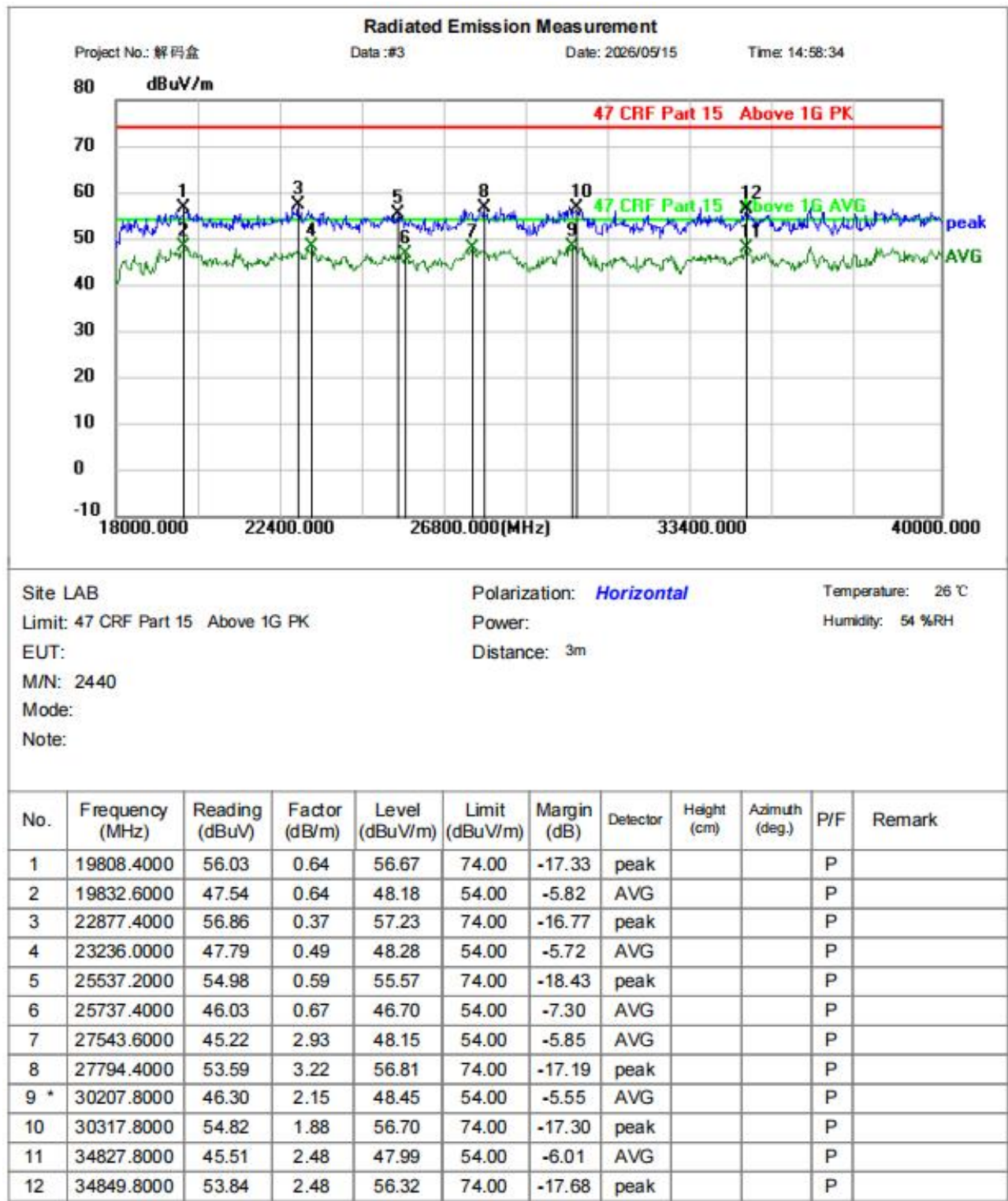
Power:

Distance: 3m

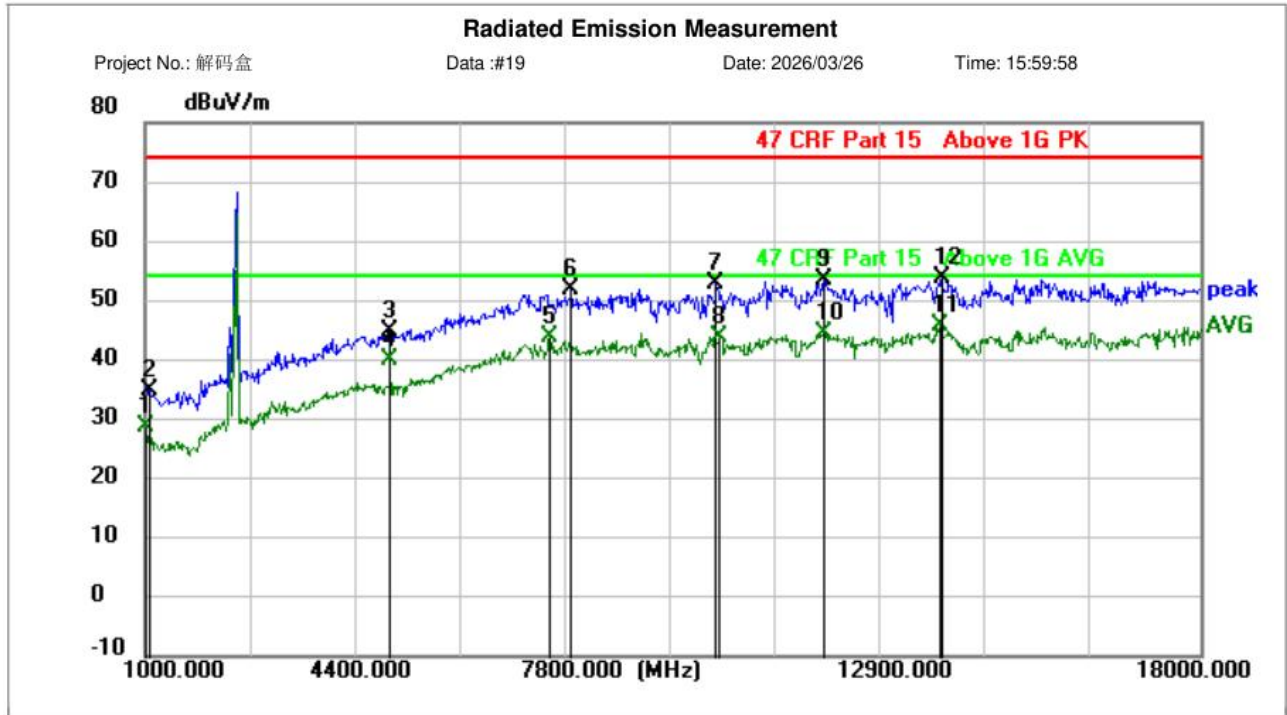
Temperature: 26 °C

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   | 1266.9000       | 59.77          | -25.20        | 34.57          | 74.00          | -39.43      | peak     |             |                | P   |        |
| 2   | 1280.5000       | 51.55          | -25.22        | 26.33          | 54.00          | -27.67      | AVG      |             |                | P   |        |
| 3   | 3907.0000       | 61.21          | -18.93        | 42.28          | 74.00          | -31.72      | peak     |             |                | P   |        |
| 4   | 4043.0000       | 54.16          | -18.98        | 35.18          | 54.00          | -18.82      | AVG      |             |                | P   |        |
| 5   | 6312.5000       | 53.16          | -13.65        | 39.51          | 54.00          | -14.49      | AVG      |             |                | P   |        |
| 6   | 6394.1000       | 61.52          | -13.21        | 48.31          | 74.00          | -25.69      | peak     |             |                | P   |        |
| 7   | 8983.2000       | 47.84          | -5.53         | 42.31          | 54.00          | -11.69      | AVG      |             |                | P   |        |
| 8   | 9025.7000       | 55.85          | -5.44         | 50.41          | 74.00          | -23.59      | peak     |             |                | P   |        |
| 9 * | 11011.3000      | 44.09          | -1.28         | 42.81          | 54.00          | -11.19      | AVG      |             |                | P   |        |
| 10  | 11210.2000      | 52.50          | -1.19         | 51.31          | 74.00          | -22.69      | peak     |             |                | P   |        |
| 11  | 13041.1000      | 45.74          | -2.99         | 42.75          | 54.00          | -11.25      | AVG      |             |                | P   |        |
| 12  | 13080.2000      | 54.25          | -3.00         | 51.25          | 74.00          | -22.75      | peak     |             |                | P   |        |



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: 2480

Mode: 1M

Note:

Polarization: **Horizontal**

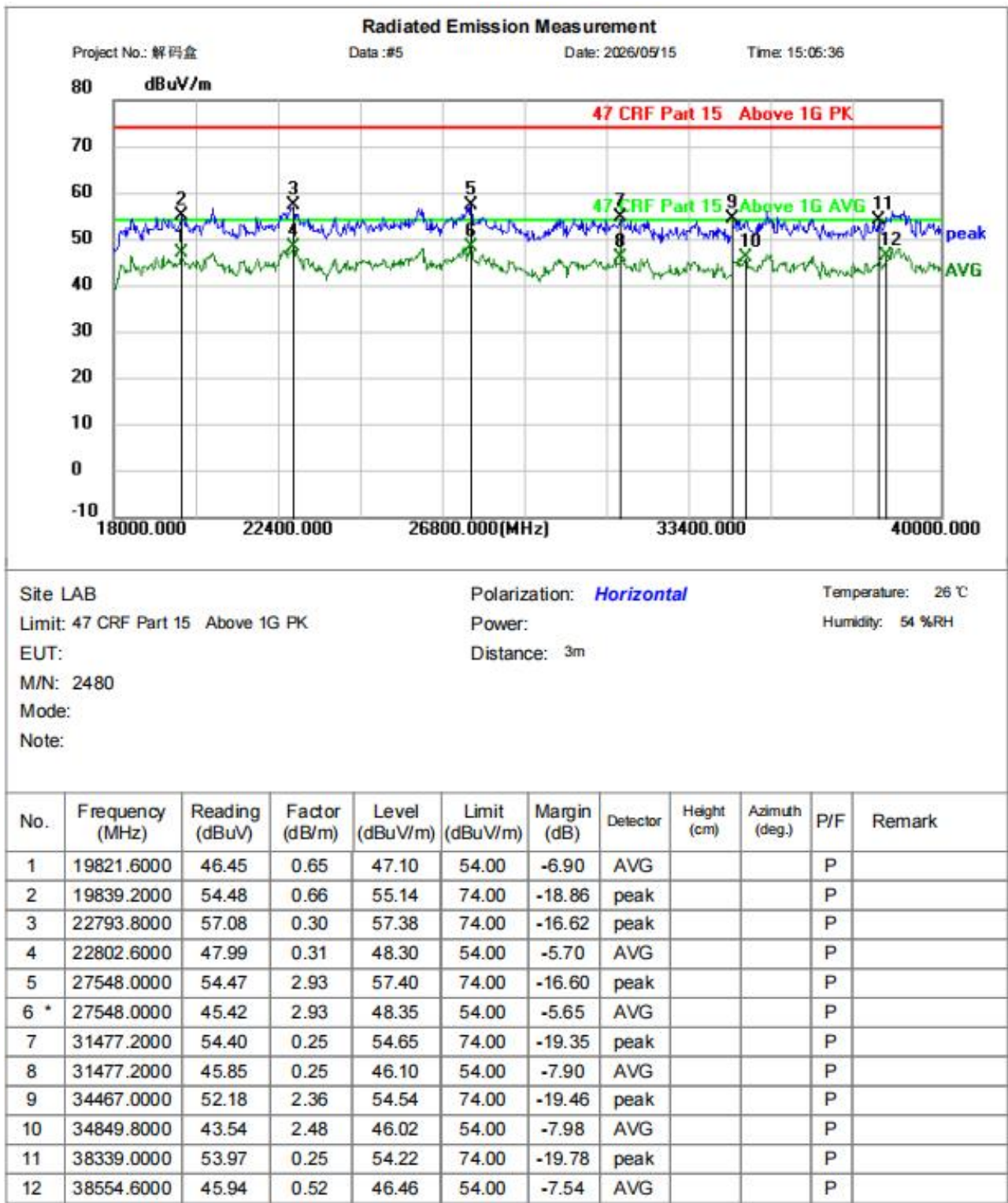
Power:

Distance: 3m

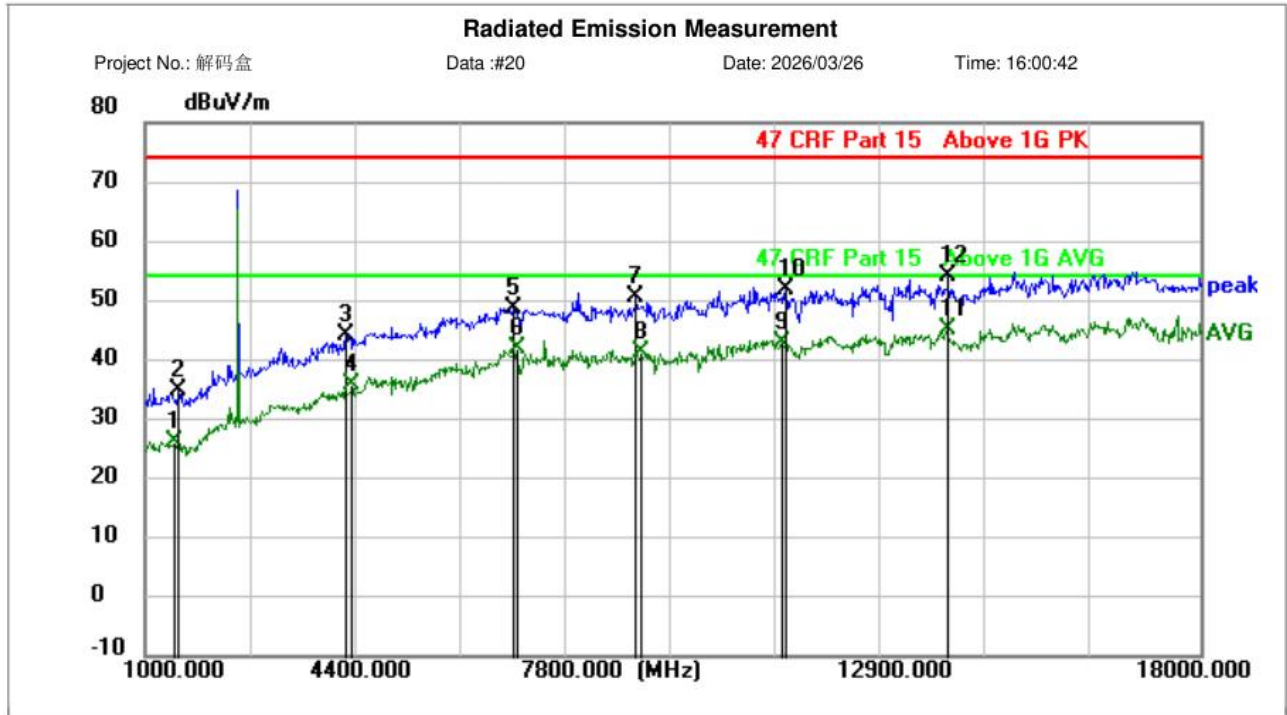
Temperature: 26 °C

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    | 1000.0000       | 54.90          | -26.15        | 28.75          | 54.00          | -25.25      | AVG      |             |                | P   |        |
| 2    | 1068.0000       | 60.67          | -25.82        | 34.85          | 74.00          | -39.15      | peak     |             |                | P   |        |
| 3    | 4959.3000       | 61.04          | -16.30        | 44.74          | 74.00          | -29.26      | peak     |             |                | P   |        |
| 4    | 4959.3000       | 56.32          | -16.30        | 40.02          | 54.00          | -13.98      | AVG      |             |                | P   |        |
| 5    | 7528.0000       | 54.36          | -10.64        | 43.72          | 54.00          | -10.28      | AVG      |             |                | P   |        |
| 6    | 7878.2000       | 61.31          | -9.50         | 51.81          | 74.00          | -22.19      | peak     |             |                | P   |        |
| 7    | 10202.1000      | 56.51          | -3.64         | 52.87          | 74.00          | -21.13      | peak     |             |                | P   |        |
| 8    | 10273.5000      | 47.31          | -3.53         | 43.78          | 54.00          | -10.22      | AVG      |             |                | P   |        |
| 9    | 11917.4000      | 55.31          | -1.89         | 53.42          | 74.00          | -20.58      | peak     |             |                | P   |        |
| 10   | 11932.7000      | 46.40          | -1.86         | 44.54          | 54.00          | -9.46       | AVG      |             |                | P   |        |
| 11 * | 13794.2000      | 48.50          | -2.77         | 45.73          | 54.00          | -8.27       | AVG      |             |                | P   |        |
| 12   | 13845.2000      | 56.49          | -2.83         | 53.66          | 74.00          | -20.34      | peak     |             |                | P   |        |



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



Site LAB

Limit: 47 CRF Part 15 Above 1G PK

EUT:

M/N: 2480

Mode: 1M

Note:

Polarization: **Vertical**

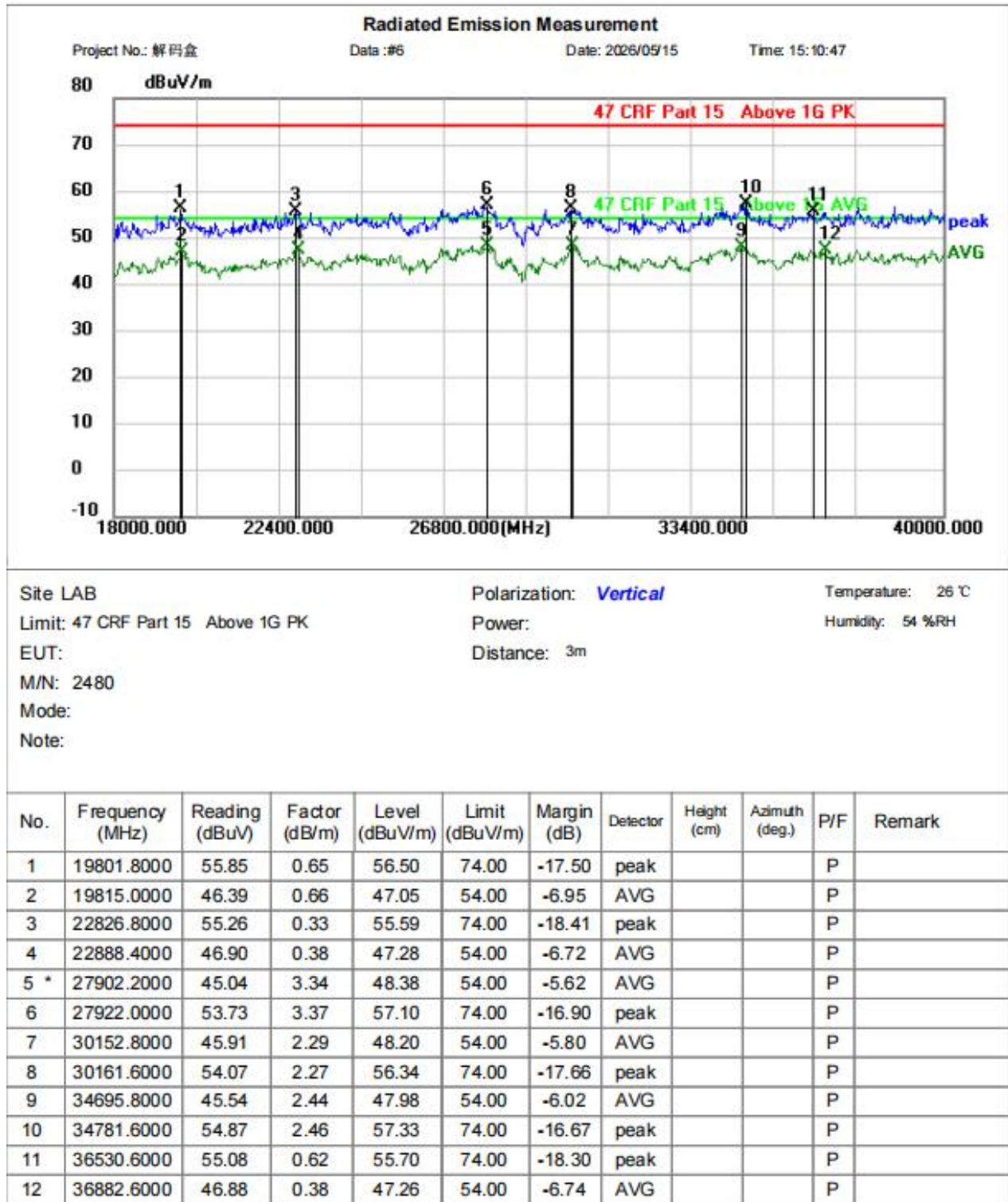
Power:

Distance: 3m

Temperature: 26 °C

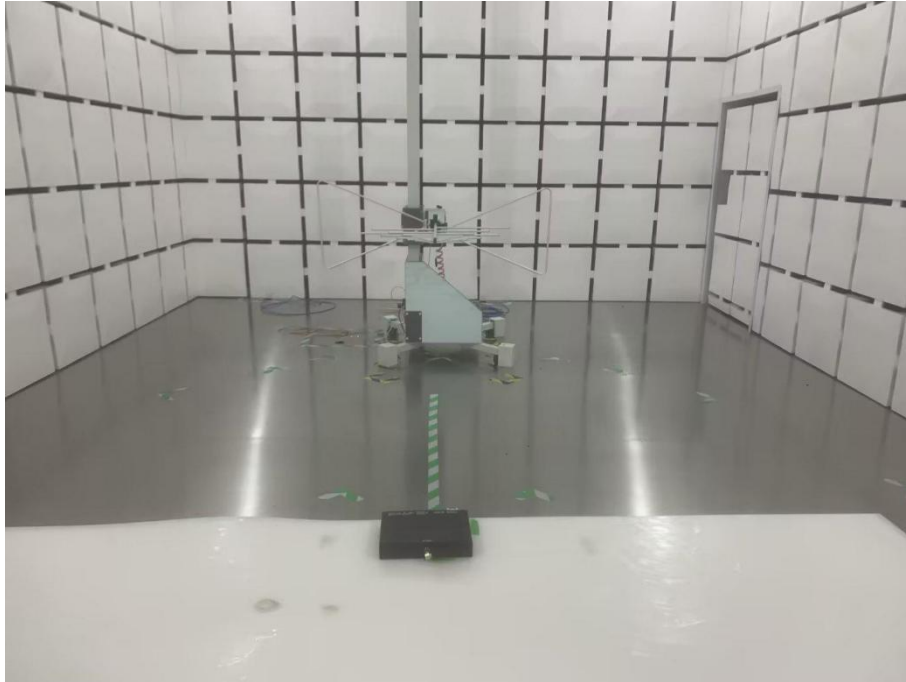
Humidity: 54 %RH

| 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    | 1489.6000       | 51.45          | -25.22        | 26.23          | 54.00          | -27.77      | AVG      |             |                | P   |        |
| 2    | 1555.9000       | 59.98          | -25.19        | 34.79          | 74.00          | -39.21      | peak     |             |                | P   |        |
| 3    | 4233.4000       | 62.89          | -18.68        | 44.21          | 74.00          | -29.79      | peak     |             |                | P   |        |
| 4    | 4342.2000       | 53.97          | -18.20        | 35.77          | 54.00          | -18.23      | AVG      |             |                | P   |        |
| 5    | 6953.4000       | 60.22          | -11.45        | 48.77          | 74.00          | -25.23      | peak     |             |                | P   |        |
| 6    | 6992.5000       | 53.10          | -11.24        | 41.86          | 54.00          | -12.14      | AVG      |             |                | P   |        |
| 7    | 8922.0000       | 56.48          | -5.79         | 50.69          | 74.00          | -23.31      | peak     |             |                | P   |        |
| 8    | 9024.0000       | 46.67          | -5.44         | 41.23          | 54.00          | -12.77      | AVG      |             |                | P   |        |
| 9    | 11242.5000      | 44.18          | -1.18         | 43.00          | 54.00          | -11.00      | AVG      |             |                | P   |        |
| 10   | 11307.1000      | 53.06          | -1.15         | 51.91          | 74.00          | -22.09      | peak     |             |                | P   |        |
| 11 * | 13906.4000      | 48.14          | -2.88         | 45.26          | 54.00          | -8.74       | AVG      |             |                | P   |        |
| 12   | 13933.6000      | 56.98          | -2.86         | 54.12          | 74.00          | -19.88      | peak     |             |                | P   |        |

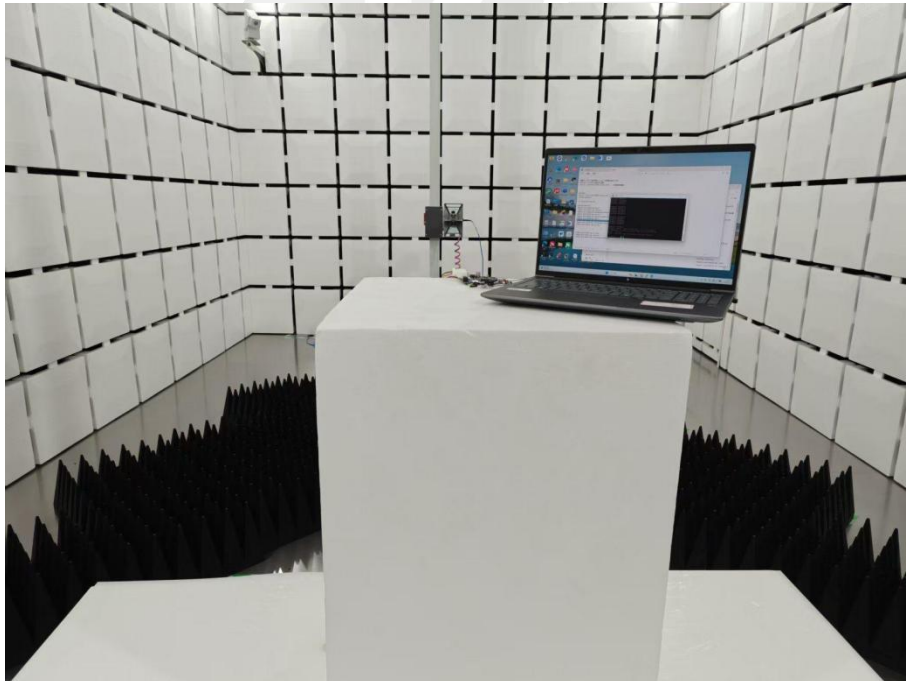


## 7. TEST SETUP PHOTOS

Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)



## 8. Appendix Report

### 1. Duty Cycle

#### 1.1 Test Result

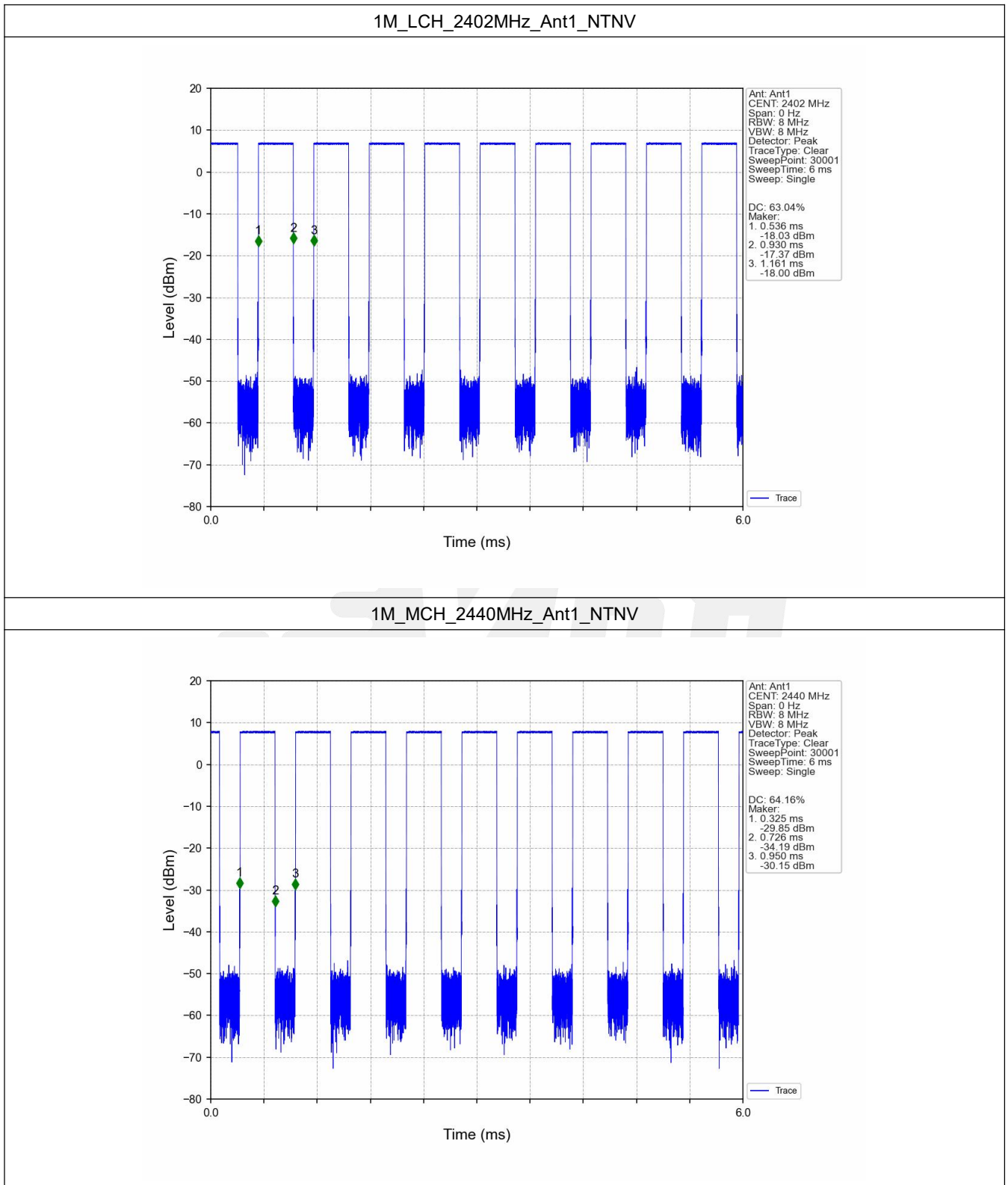
##### 1.1.1 Ant1

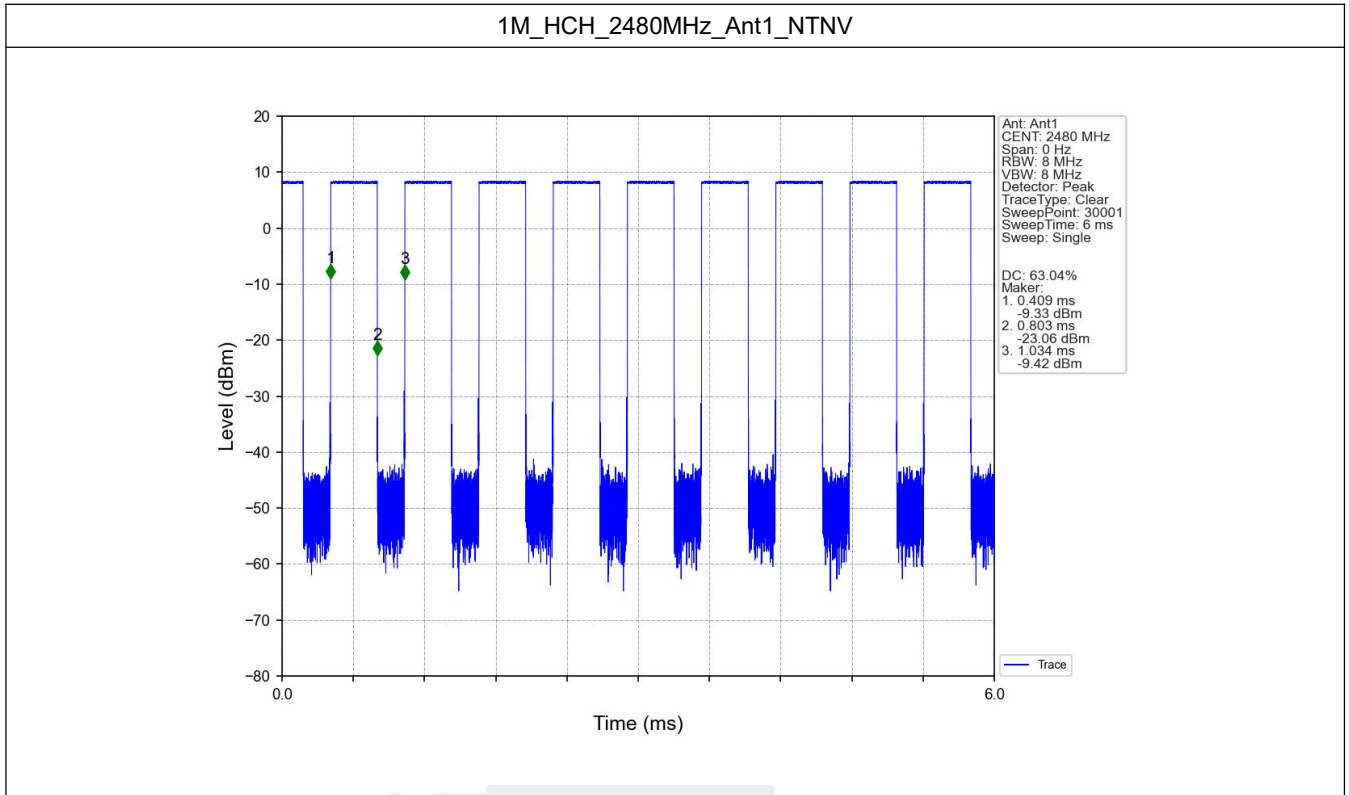
| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 0.394     | 0.625       | 63.04          | 2.00                              | 0.00                  |
|      |         | 2440            | 0.401     | 0.625       | 64.16          | 1.93                              | 0.03                  |
|      |         | 2480            | 0.394     | 0.625       | 63.04          | 2.00                              | 0.00                  |



## 1.2 Test Graph

### 1.2.1 Ant1





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

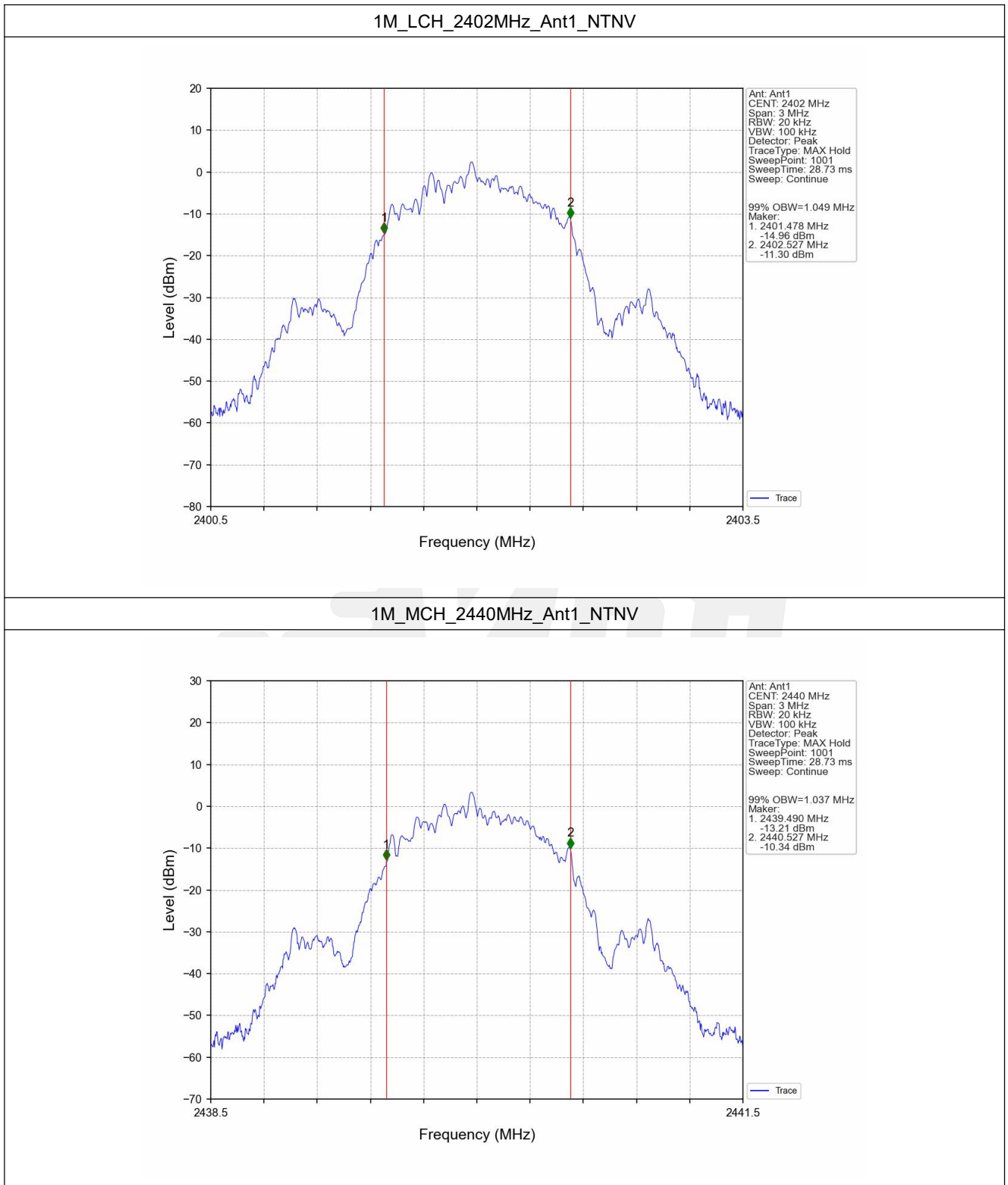
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.049                        | /     | Pass    |
|      |         | 2440            | 1   | 1.037                        | /     | Pass    |
|      |         | 2480            | 1   | 1.046                        | /     | Pass    |

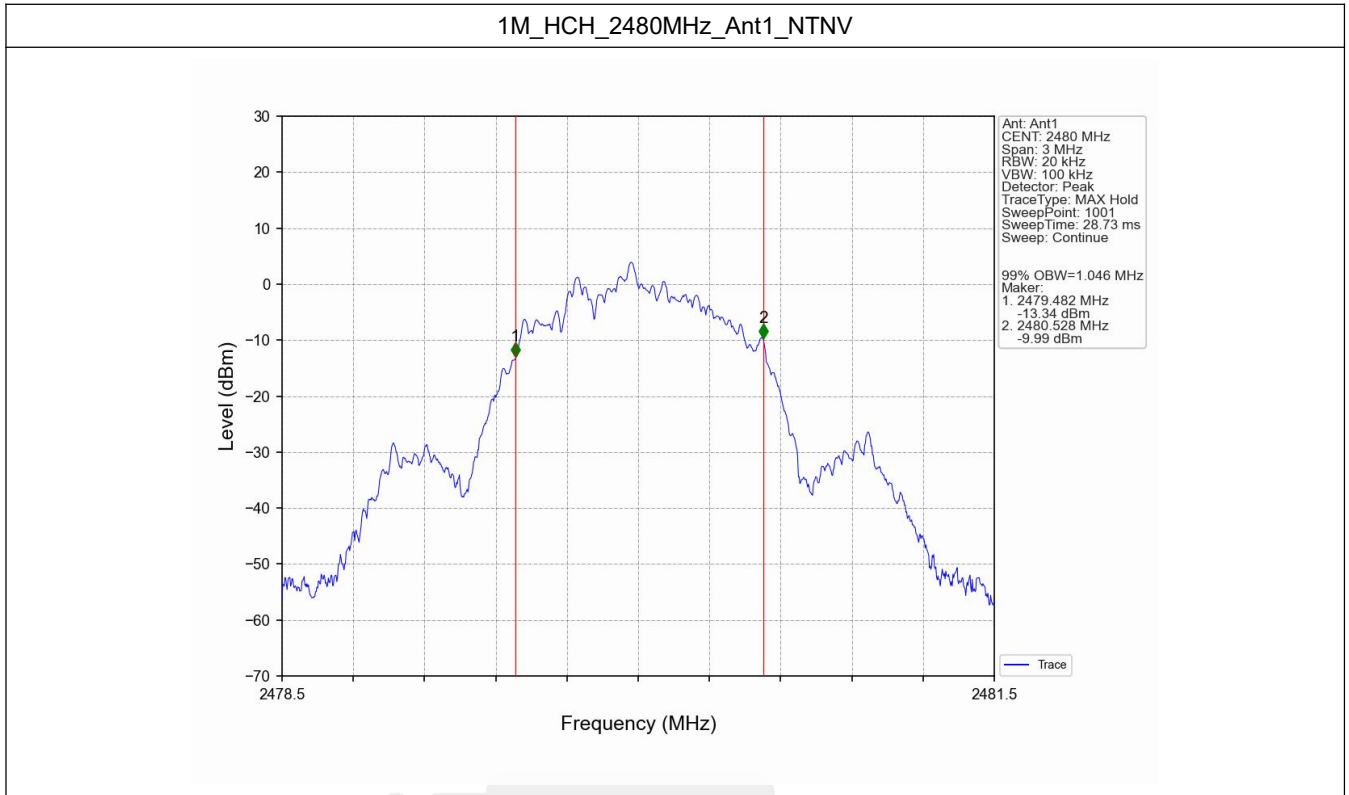
#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.713               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.734               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.714               | $\geq 0.5$ | Pass    |

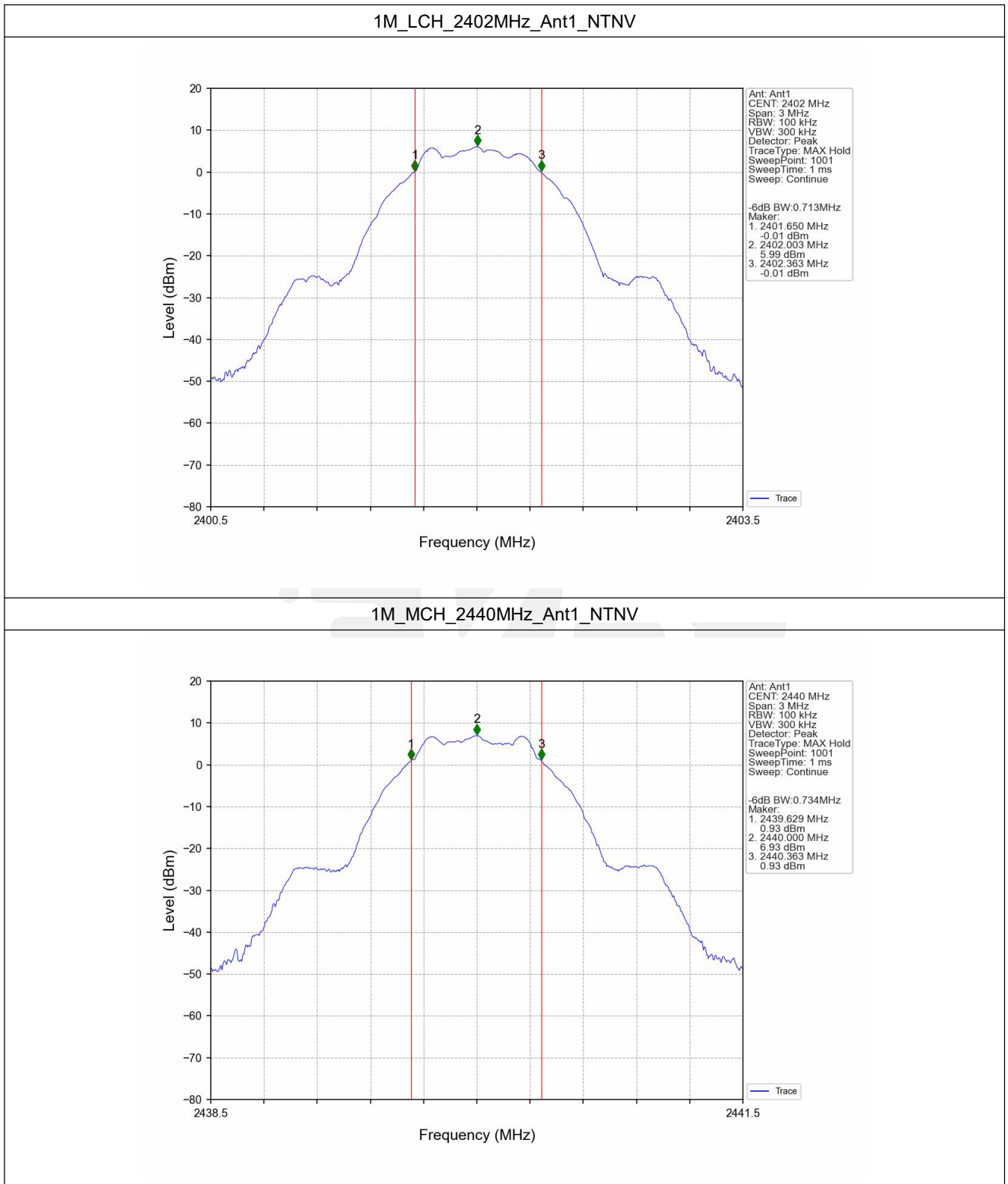
## 2.2 Test Graph

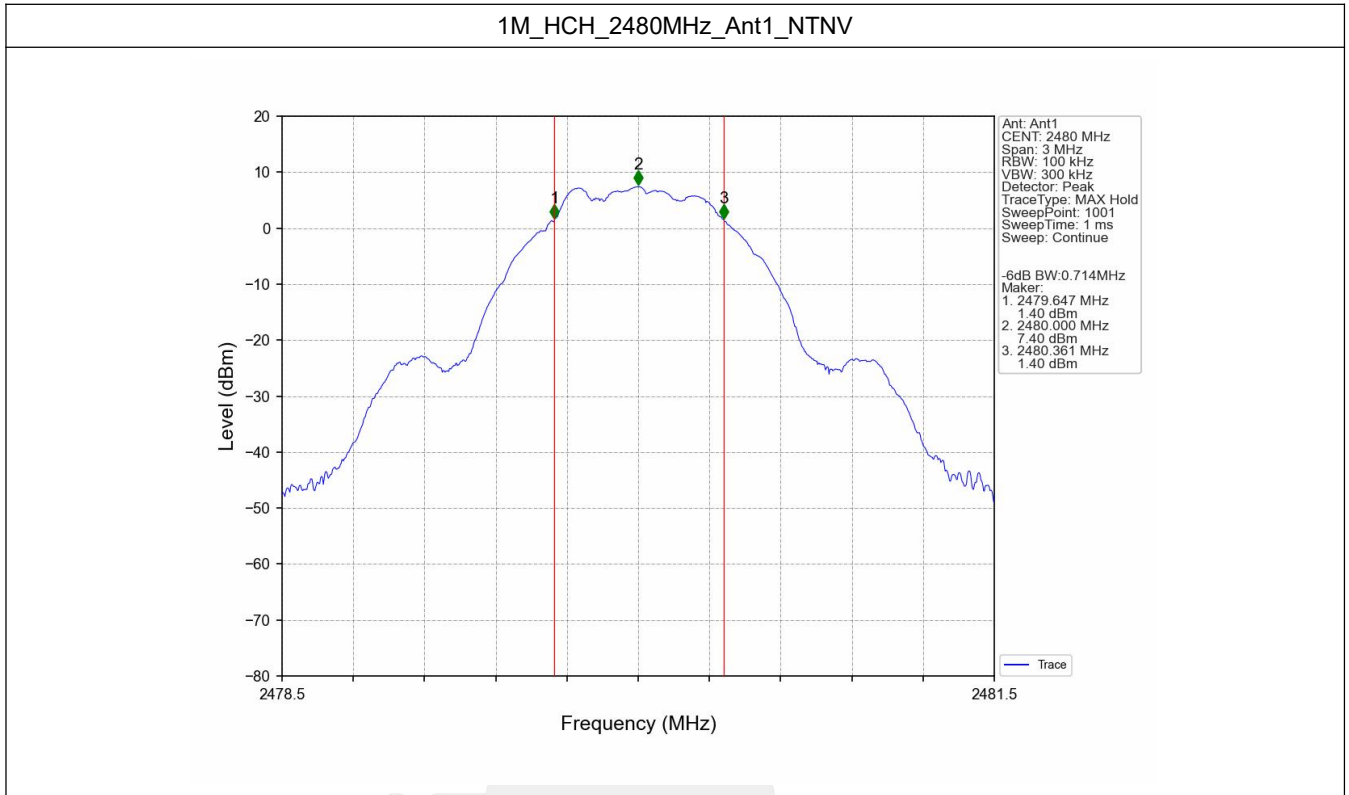
### 2.2.1 OBW





## 2.2.2 6dB BW





### 3. Maximum Conducted Output Power

#### 3.1 Test Result

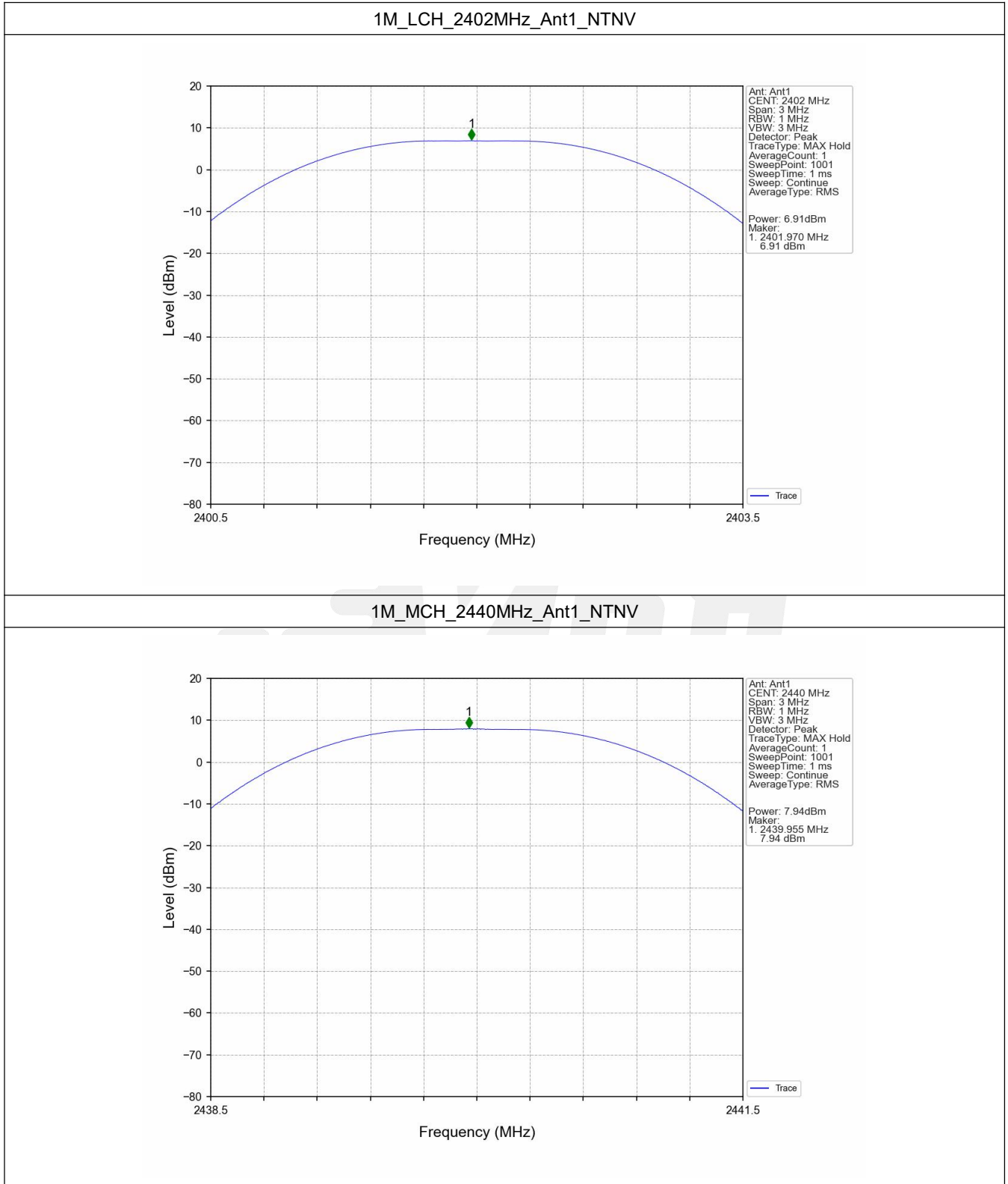
##### 3.1.1 Power

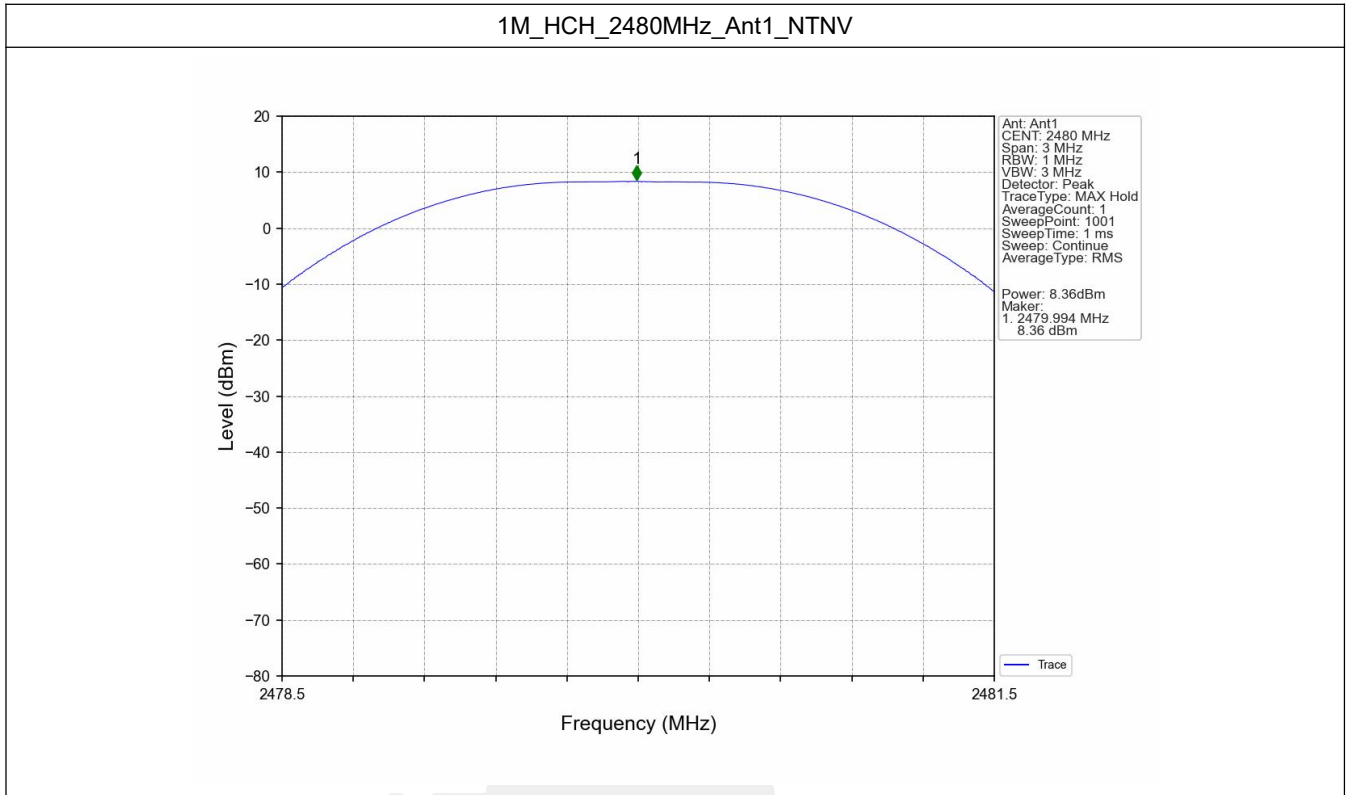
| Mode                                | TX<br>Type | Frequency<br>(MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|-------------------------------------|------------|--------------------|-------------------------------------------|-------|---------|
|                                     |            |                    | ANT1                                      | Limit |         |
| 1M                                  | SISO       | 2402               | 6.91                                      | <=30  | Pass    |
|                                     |            | 2440               | 7.94                                      | <=30  | Pass    |
|                                     |            | 2480               | 8.36                                      | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 3.80dBi; |            |                    |                                           |       |         |



## 3.2 Test Graph

### 3.2.1 Power





## 4. Maximum Power Spectral Density

### 4.1 Test Result

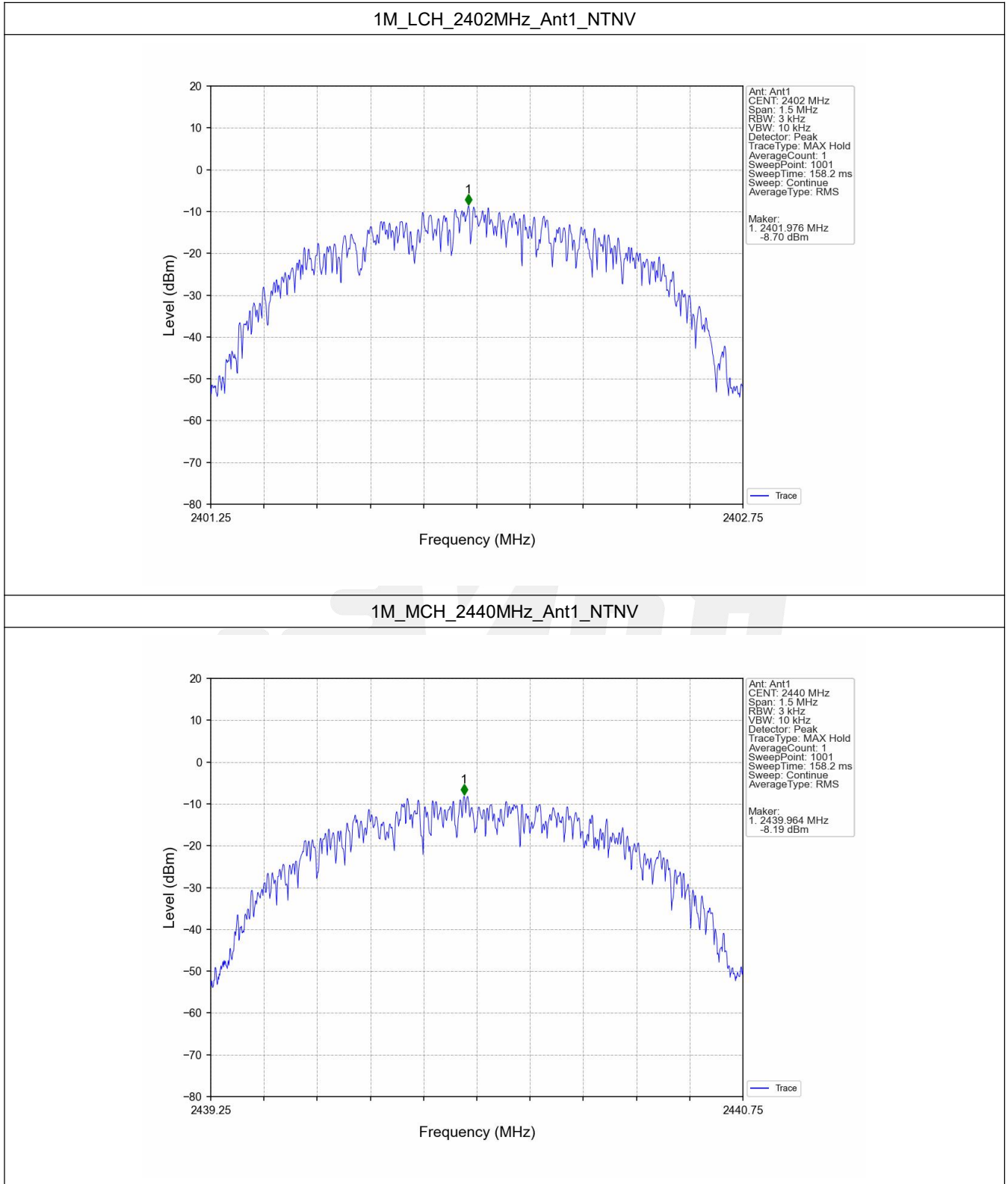
#### 4.1.1 PSD

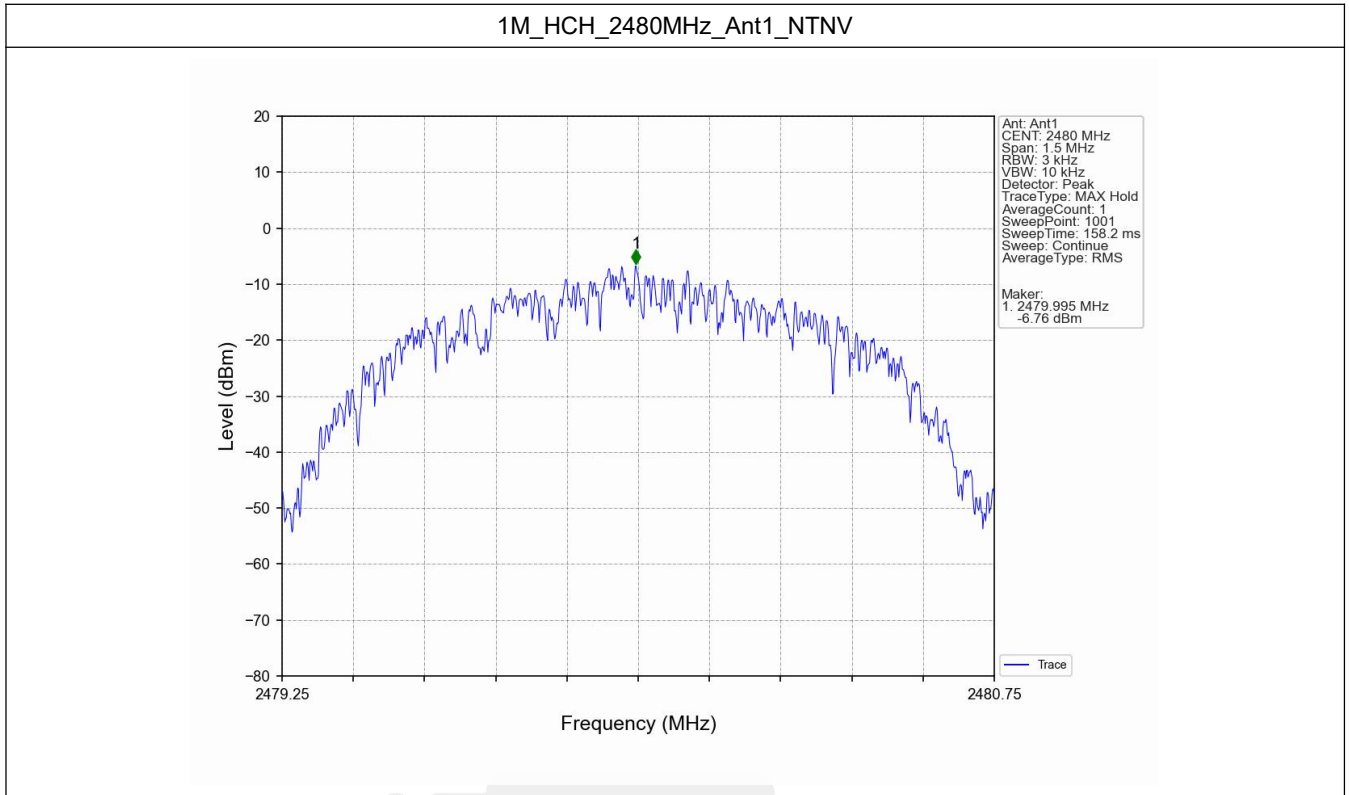
| Mode                                | TX Type | Frequency (MHz) | Maximum PSD (dBm) |                 | Verdict |
|-------------------------------------|---------|-----------------|-------------------|-----------------|---------|
|                                     |         |                 | ANT1              | Limit(dBm/3kHz) |         |
| 1M                                  | SISO    | 2402            | -8.70dBm/3kHz     | <=8             | Pass    |
|                                     |         | 2440            | -8.19dBm/3kHz     | <=8             | Pass    |
|                                     |         | 2480            | -6.76dBm/3kHz     | <=8             | Pass    |
| Note1: Antenna Gain: Ant1: 3.80dBi; |         |                 |                   |                 |         |



## 4.2 Test Graph

### 4.2.1 PSD





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

### 5.1 Test Result

#### 5.1.1 Ref

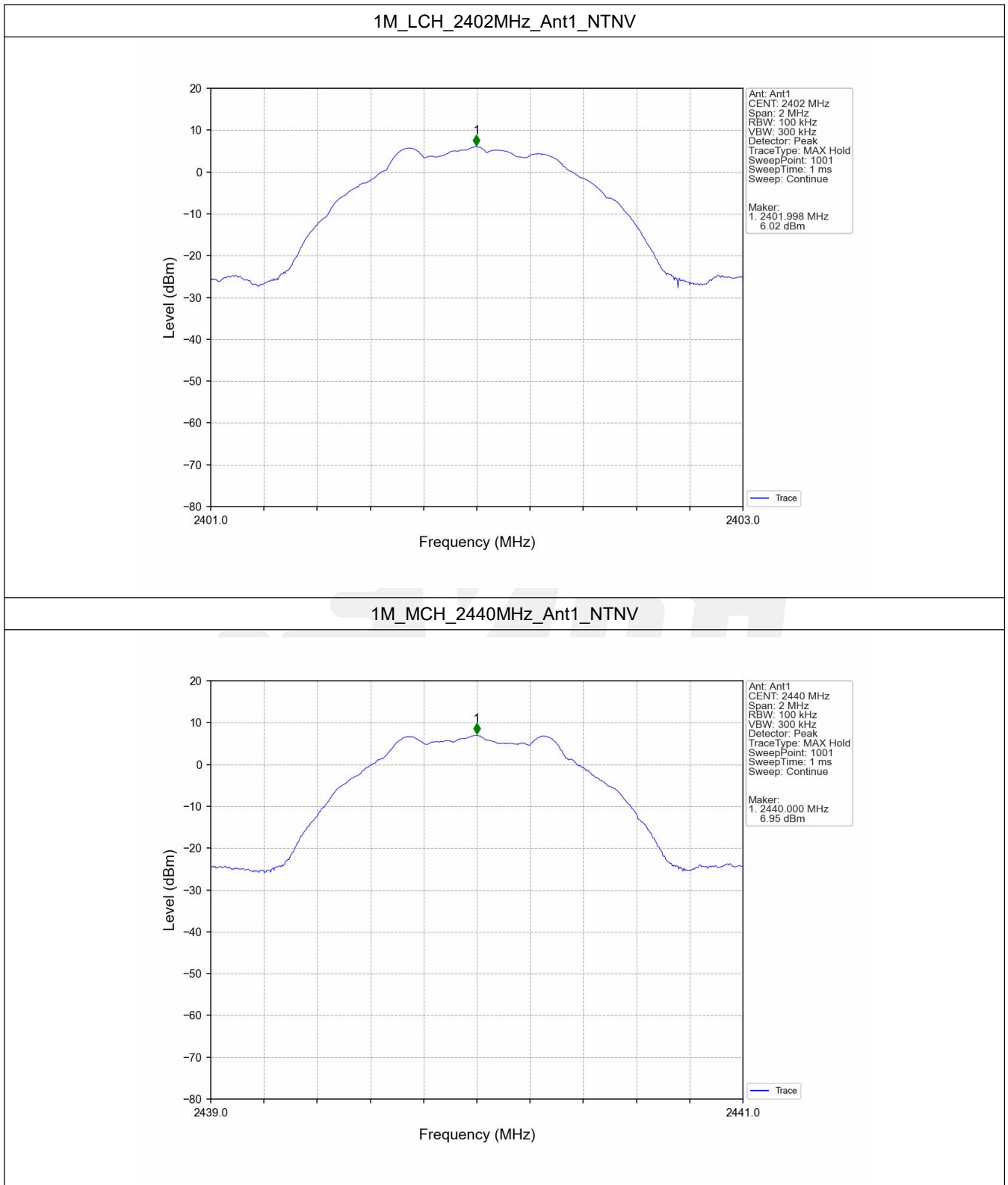
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M   | SISO    | 2402            | 1   | 6.02                     |
|      |         | 2440            | 1   | 6.95                     |
|      |         | 2480            | 1   | 7.42                     |

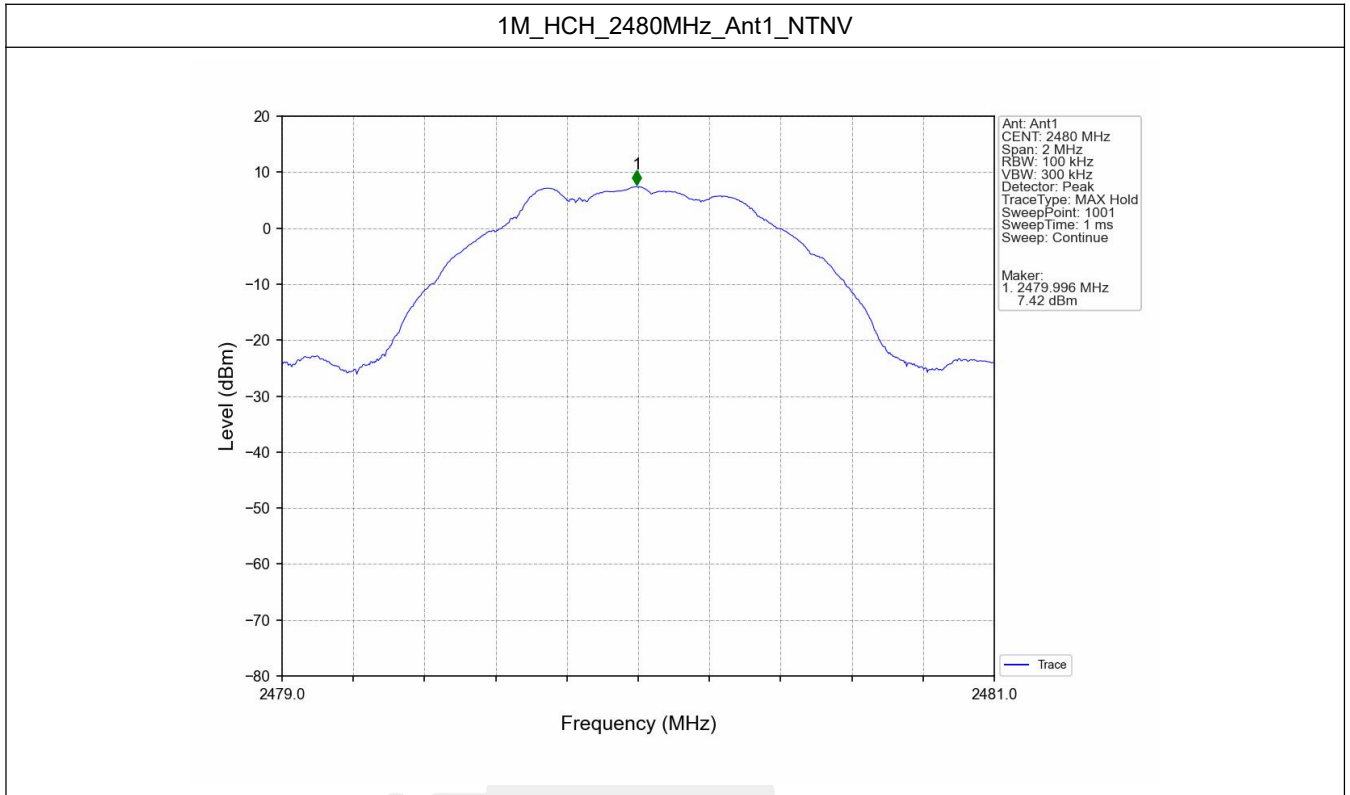
#### 5.1.2 CSE

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | 6.02                     | -13.98      | Pass    |
|      |         | 2440            | 1   | 6.95                     | -13.05      | Pass    |
|      |         | 2480            | 1   | 7.42                     | -12.58      | Pass    |

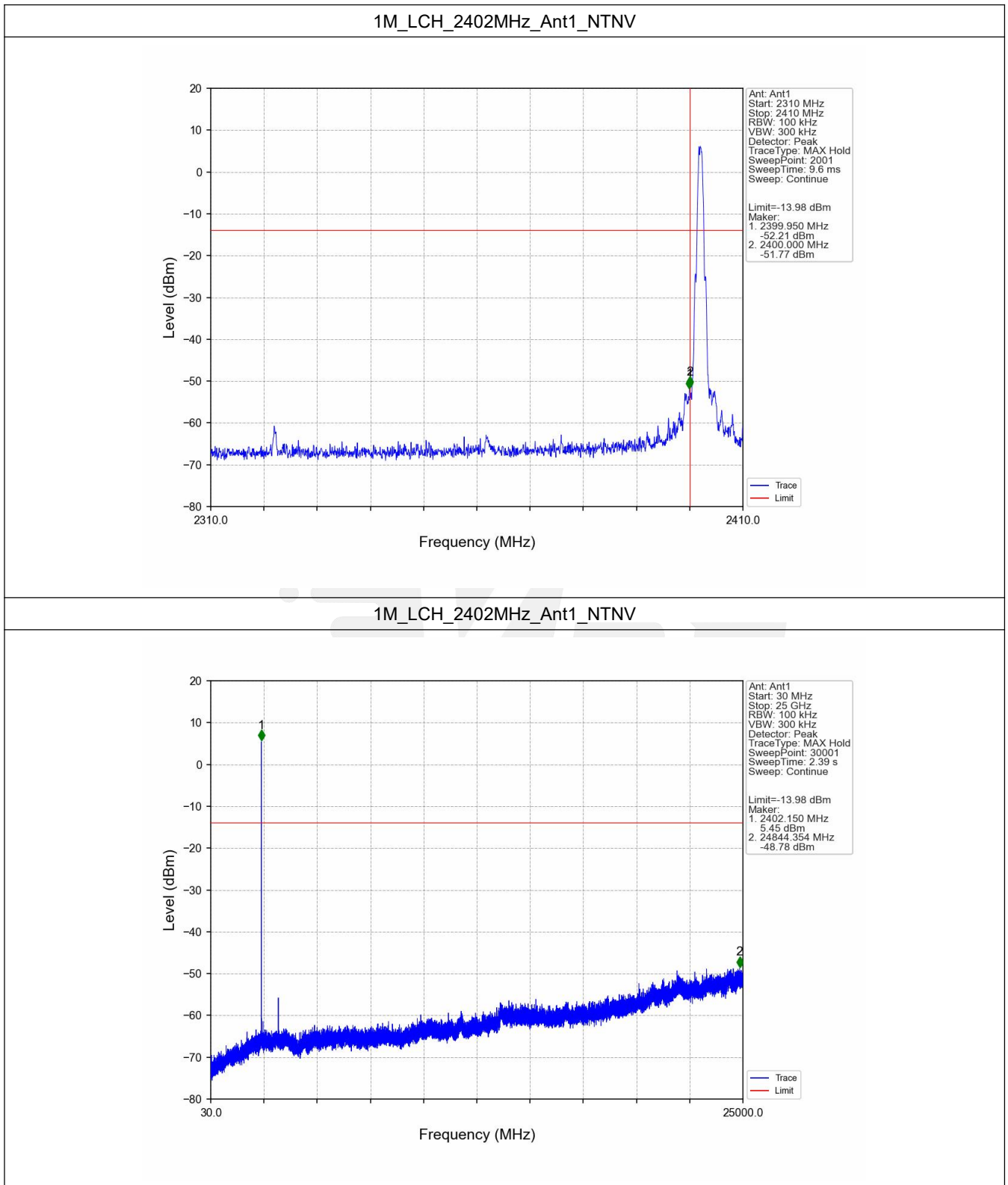
## 5.2 Test Graph

### 5.2.1 Ref

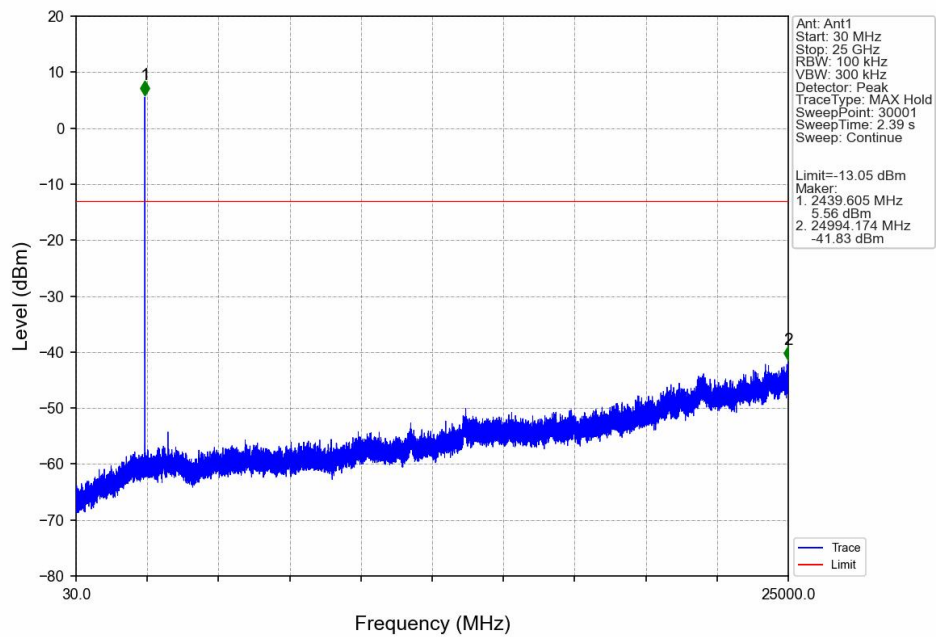




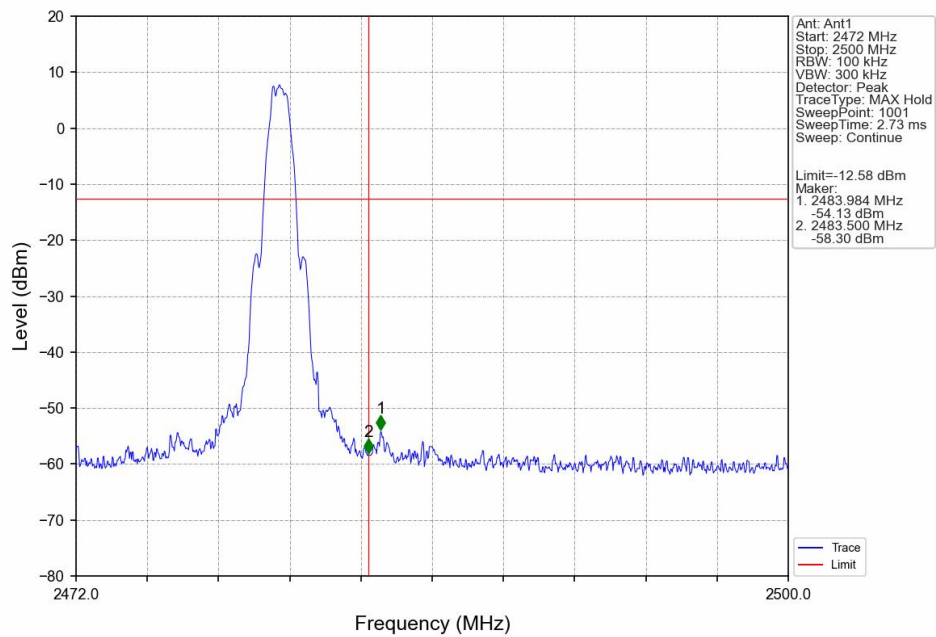
## 5.2.2 CSE

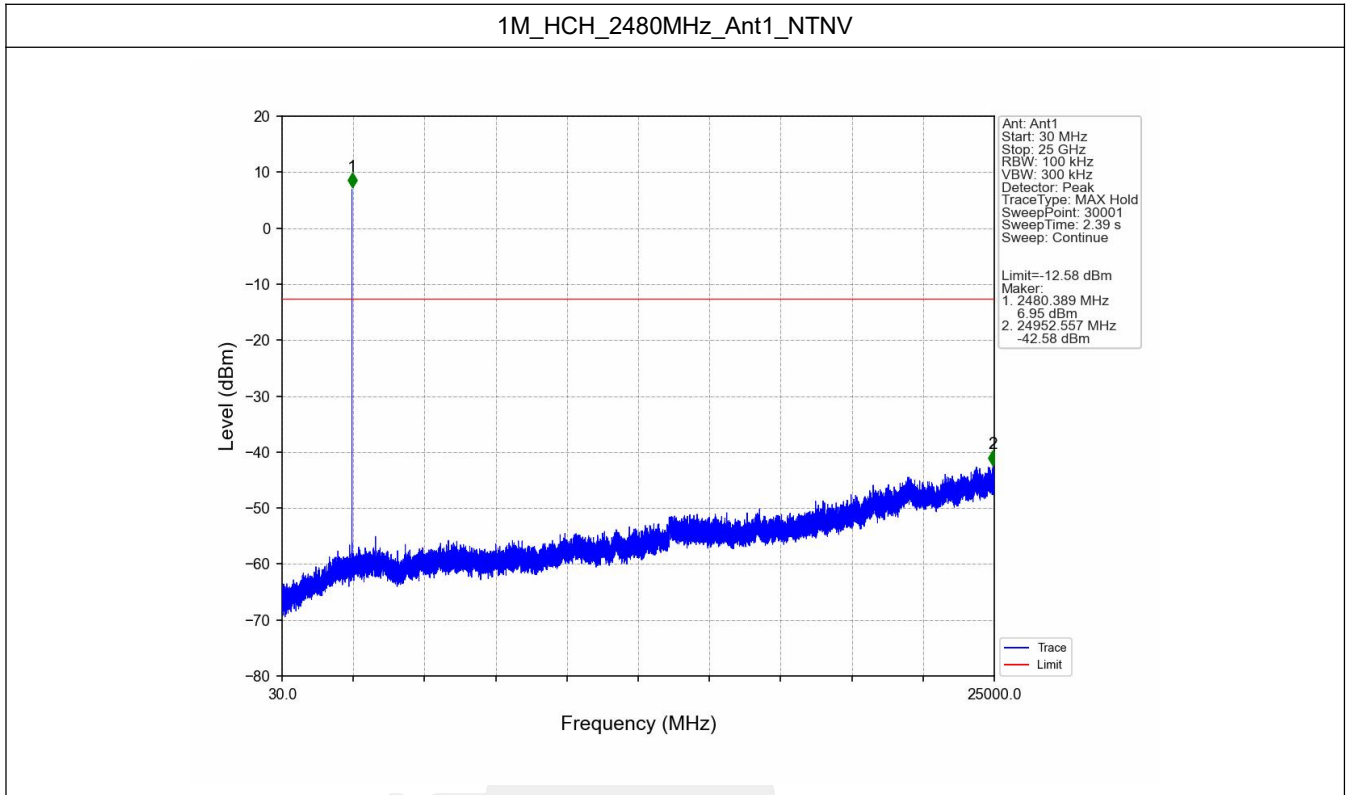


## 1M\_MCH\_2440MHz\_Ant1\_NTNV



## 1M\_HCH\_2480MHz\_Ant1\_NTNV





## 6. Form731

### 6.1 Test Result

#### 6.1.1 Form731

| Lower Freq (MHz) | High Freq (MHz) | MAX Power (W) | MAX Power (dBm) |
|------------------|-----------------|---------------|-----------------|
| 2402             | 2480            | 0.0069        | 8.36            |

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

