

# FCC Radio Test Report

FCC ID : 2AG9J-EVGA-X20-RX01

Equipment : USB Receiver

Brand Name : EVGA

Model Name : X20RX

Applicant : EVGA CORPORATION  
18F., NO. 176, JIAN 1ST RD., ZHONGHE DIST.,  
NEW TAIPEI CITY 235, TAIWAN

Manufacturer : EVGA CORPORATION  
18F., NO. 176, JIAN 1ST RD., ZHONGHE DIST.,  
NEW TAIPEI CITY 235, TAIWAN

Standard : 47 CFR FCC Part 15.249

The product was received on Feb. 23, 2021, and testing was started from Feb. 26, 2021 and completed on Mar. 08, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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**HISTORY OF THIS TEST REPORT**

| Report No. | Version | Description                                                                                           | Issued Date   |
|------------|---------|-------------------------------------------------------------------------------------------------------|---------------|
| FR120802ZW | 01      | Initial issue of report                                                                               | Apr. 15, 2021 |
| FR120802ZW | 02      | Revised typo<br>(This report is the latest version replacing for the report issued on Apr. 15, 2021.) | Apr. 26, 2021 |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |
|            |         |                                                                                                       |               |

## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items                              | Result (PASS/FAIL) | Remark |
|---------------|-----------------|-----------------------------------------|--------------------|--------|
| 1.1.2         | 15.203          | Antenna Requirement                     | PASS               | -      |
| 3.1           | 15.207          | AC Power-line Conducted Emissions       | PASS               | -      |
| 3.2           | 15.215(c)       | Emission Bandwidth                      | PASS               | -      |
| 3.3           | 15.249(a)       | Fundamental Emissions                   | PASS               | -      |
| 3.4           | 15.249(a)/(d)   | Transmitter Radiated Unwanted Emissions | PASS               | -      |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Sam Tsai**

**Report Producer: Michelle Tsai**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| RF General Information                                |            |                     |                |
|-------------------------------------------------------|------------|---------------------|----------------|
| Frequency Range (MHz)                                 | Modulation | Ch. Frequency (MHz) | Channel Number |
| 2400-2483.5                                           | GFSK       | 2402-2480           | 79             |
| Note 1: Field strength performed average level at 3m. |            |                     |                |

| Band          | Mode       | BWch (MHz) | Nant |
|---------------|------------|------------|------|
| 2.4-2.4835GHz | SRD(1Mbps) | 1          | 1TX  |
| 2.4-2.4835GHz | SRD(2Mbps) | 1          | 1TX  |

### 1.1.2 Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1       | 2402            | 41      | 2442            |
| 2       | 2403            | 42      | 2443            |
| 3       | 2404            | 43      | 2444            |
| 4       | 2405            | 44      | 2445            |
| 5       | 2406            | 45      | 2446            |
| 6       | 2407            | 46      | 2447            |
| 7       | 2408            | 47      | 2448            |
| 8       | 2409            | 48      | 2449            |
| 9       | 2410            | 49      | 2450            |
| 10      | 2411            | 50      | 2451            |
| 11      | 2412            | 51      | 2452            |
| 12      | 2413            | 52      | 2453            |
| 13      | 2414            | 53      | 2454            |
| 14      | 2415            | 54      | 2455            |
| 15      | 2416            | 55      | 2456            |
| 16      | 2417            | 56      | 2457            |
| 17      | 2418            | 57      | 2458            |
| 18      | 2419            | 58      | 2459            |
| 19      | 2420            | 59      | 2460            |
| 20      | 2421            | 60      | 2461            |
| 21      | 2422            | 61      | 2462            |
| 22      | 2423            | 62      | 2463            |

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 23      | 2424            | 63      | 2464            |
| 24      | 2425            | 64      | 2465            |
| 25      | 2426            | 65      | 2466            |
| 26      | 2427            | 66      | 2467            |
| 27      | 2428            | 67      | 2468            |
| 28      | 2429            | 68      | 2469            |
| 29      | 2430            | 69      | 2470            |
| 30      | 2431            | 70      | 2471            |
| 31      | 2432            | 71      | 2472            |
| 32      | 2433            | 72      | 2473            |
| 33      | 2434            | 73      | 2474            |
| 34      | 2435            | 74      | 2475            |
| 35      | 2436            | 75      | 2476            |
| 36      | 2437            | 76      | 2477            |
| 37      | 2438            | 77      | 2478            |
| 38      | 2439            | 78      | 2479            |
| 39      | 2440            | 79      | 2480            |
| 40      | 2441            | -       | -               |

### 1.1.3 Antenna Information

| Ant. | Brand | Model Name     | Antenna Type | Connector | Gain (dBi) |
|------|-------|----------------|--------------|-----------|------------|
| 1    | ACX   | AT8010-E2R9HAA | Chip Antenna | N/A       | 0.5        |

**For SRD function:**

For SRD mode (1TX/1RX)

Ant. 1 could transmit/receive.

### 1.1.4 EUT Information

| Operational Condition               |                                                                                                                                   |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Power Type</b>               | From Host system                                                                                                                  |
| Type of EUT                         |                                                                                                                                   |
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                       |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.: ...                           |
| <input type="checkbox"/>            | Other:                                                                                                                            |

### 1.1.5 Test Signal Duty Cycle

| Mode       | DC    | DCF(dB) | T(s)     | VBW(Hz) $\geq 1/T$ |
|------------|-------|---------|----------|--------------------|
| SRD(1Mbps) | 0.602 | 2.2     | 178.125u | 10k                |
| SRD(2Mbps) | 0.526 | 2.79    | 309.375u | 10k                |

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

## 1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15.249
- ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Test Lab. : Sporton International Inc. Hsinhua Laboratory       |                                                                                         |               |                      |                         |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|----------------------|-------------------------|
| <input checked="" type="checkbox"/> Hsinhua<br>(TAF: 3785)      | ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)          |               |                      |                         |
|                                                                 | TEL: 886-3-327-3456                                                                     |               | FAX: 886-3-327-0973  |                         |
| Test site Designation No. TW1190 with FCC.                      |                                                                                         |               |                      |                         |
| Test Condition                                                  | Test Site No.                                                                           | Test Engineer | Test Environment     | Test Date               |
| AC Conduction                                                   | CO04-HY                                                                                 | Daniel Lin    | 21.0~23.6°C / 52~57% | 03/Mar/2021             |
| RF Conducted                                                    | TH06-HY                                                                                 | Johnny Yu     | 20.1~26.9°C / 50~60% | 02/Mar/2021~08/Mar/2021 |
| <input checked="" type="checkbox"/> Wen 33rd.St.<br>(TAF: 3785) | ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) |               |                      |                         |
|                                                                 | TEL: 886-3-318-0787                                                                     |               | FAX: 886-3-318-0287  |                         |
| Test site Designation No. TW0008 with FCC.                      |                                                                                         |               |                      |                         |
| Test Condition                                                  | Test Site No.                                                                           | Test Engineer | Test Environment     | Test Date               |
| Radiated                                                        | 03CH09-HY                                                                               | Daniel Hsu    | 22.4~23.2°C / 53~55% | 26/Feb/2021~05/Mar/2021 |

## 1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 0.9 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 2.4 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.0 dB      | Confidence levels of 95% |
| Temperature                          | 0.41 °C     | Confidence levels of 95% |
| Humidity                             | 3.4 %       | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

| RF Conducted | Abbreviation | Remark |
|--------------|--------------|--------|
| TnomVnom     | Tnom         | 20°C   |
| -            | Vnom         | 3.7V   |

### 2.2 Test Channel Mode

|                       |                    |
|-----------------------|--------------------|
| Test Software Version | RF Tester v1.0.0.0 |
|-----------------------|--------------------|

| Mode                | Power Setting |
|---------------------|---------------|
| SRD(1Mbps)_Nss1_1TX | -             |
| 2402MHz             | -8            |
| 2440MHz             | -8            |
| 2480MHz             | -8            |
| SRD(2Mbps)_Nss1_1TX | -             |
| 2402MHz             | -8            |
| 2440MHz             | -8            |
| 2480MHz             | -8            |



## 2.3 The Worst Case Modulation Configuration

| Modulation Used for Conformance Testing |                                |
|-----------------------------------------|--------------------------------|
| Test Mode                               | Field Strength (dBuV/m at 3 m) |
| GFSK                                    | 92.57                          |

## 2.4 Test Channel Frequencies Configuration

| Test Channel Frequencies Configuration |                                |
|----------------------------------------|--------------------------------|
| Test Mode                              | Test Channel Frequencies (MHz) |
| GFSK                                   | 2402, 2440, 2480               |

## 2.5 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                          |
|-----------------------------------------------------|----------------------------------------------------------|
| Tests Item                                          | AC power-line conducted emissions                        |
| Condition                                           | AC power-line conducted measurement for line and neutral |
| Operating Mode                                      | CTX                                                      |
| 1                                                   | USB Mode                                                 |

| The Worst Case Mode for Following Conformance Tests |                                          |
|-----------------------------------------------------|------------------------------------------|
| Tests Item                                          | Emission Bandwidth                       |
| Test Condition                                      | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                     |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tests Item                                          | Fundamental Emissions, Radiated Unwanted Emissions                                                                                                                                                                                                  |                                                                                     |                                                                                       |
| Test Condition                                      | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |                                                                                     |                                                                                       |
| Operating Mode < 1GHz                               | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| 1                                                   | USB Mode                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |
| Operating Mode > 1GHz                               | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| Orthogonal Planes of EUT                            | X Plane                                                                                                                                                                                                                                             | Y Plane                                                                             | Z Plane                                                                               |
|                                                     |                                                                                                                                                                  |  |  |
| Worst Planes of EUT                                 |                                                                                                                                                                                                                                                     | V                                                                                   |                                                                                       |

## 2.6 Accessories

| Accessories       |              |                                              |            |                  |
|-------------------|--------------|----------------------------------------------|------------|------------------|
| USB Cable         | Brand Name   | Acrox                                        | Model Name | 1CCBLW35A4200004 |
|                   | Manufacturer | Shenzhen Duo Ji Xin Technology Co.,Ltd       | SN         | X20-0001         |
|                   | Signal Line  | 1.96 meter, shielded cable, w/o ferrite core |            |                  |
| Extension Adapter | Brand Name   | EVGA                                         | Model Name | X20R             |

Note: Regarding to more detail and other information, please refer to user manual.

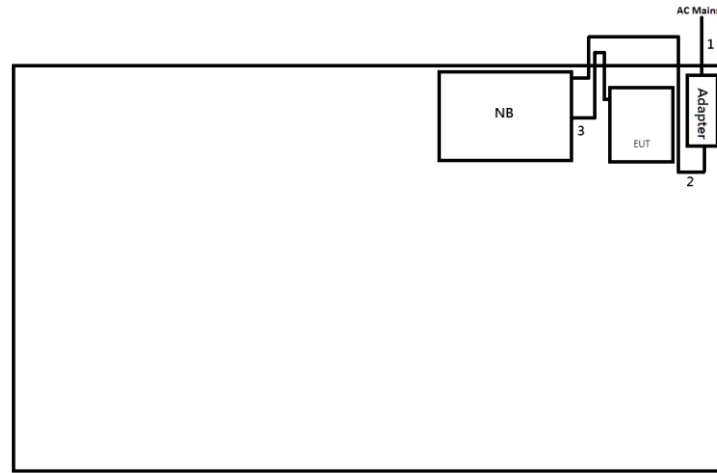
## 2.7 Support Equipment

| Support Equipment – AC Conduction and Radiated |                   |            |            |        |        |
|------------------------------------------------|-------------------|------------|------------|--------|--------|
| No.                                            | Equipment         | Brand Name | Model Name | FCC ID | Remark |
| 1                                              | Notebook          | HP         | HSTNN-Q85C | -      | -      |
| 2                                              | AC Adapter for NB | HP         | PPP012L-E  | -      | -      |

| Support Equipment – Conducted |                |            |            |        |        |
|-------------------------------|----------------|------------|------------|--------|--------|
| No.                           | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                             | Notebook       | DELL       | E5410      | -      | -      |
| 2                             | Adapter for NB | DELL       | HA65NM130  | -      | -      |

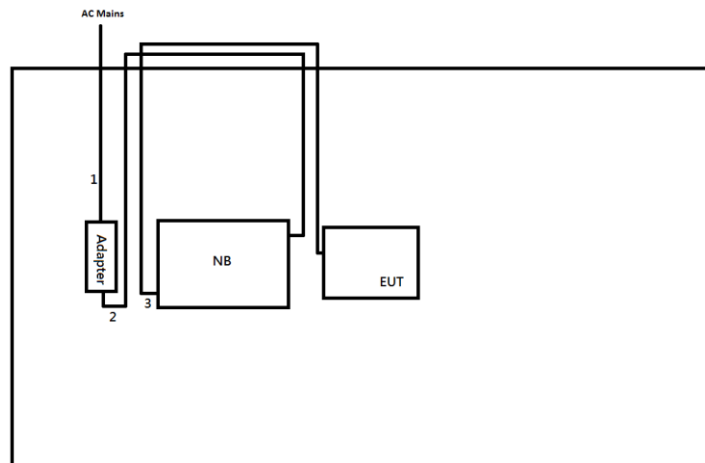
## 2.8 Test Setup Diagram

**Test Setup Diagram – AC Line Conducted Emission Test**



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power cable | No       | 1.8       | -      |
| 2    | DC Power cable | No       | 1.8       | -      |
| 3    | USB cable      | Yes      | 1.96      | -      |

**Test Setup Diagram - Radiated Test**



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power cable | No       | 1.8       | -      |
| 2    | DC Power cable | No       | 1.8       | -      |
| 3    | USB cable      | Yes      | 1.96      | -      |

### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit                  |            |           |
|----------------------------------------------------------|------------|-----------|
| Frequency Emission (MHz)                                 | Quasi-Peak | Average   |
| 0.15-0.5                                                 | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                                    | 56         | 46        |
| 5-30                                                     | 60         | 50        |
| Note 1: * Decreases with the logarithm of the frequency. |            |           |

##### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

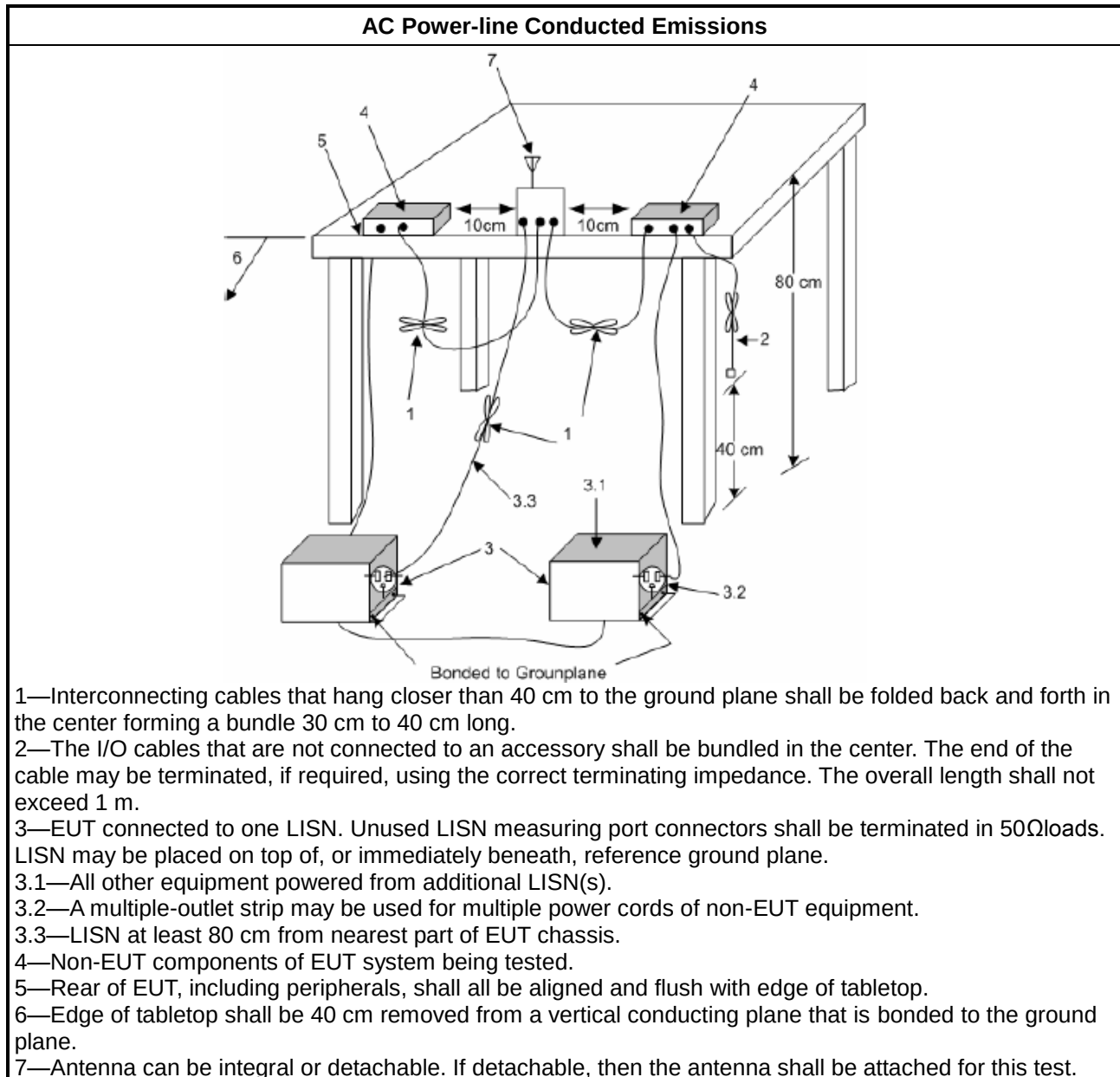
| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

##### 3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

### 3.1.5 Test Setup



### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

## 3.2 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

| Emission Bandwidth Limit            |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Emission bandwidth falls completely within authorized band. |

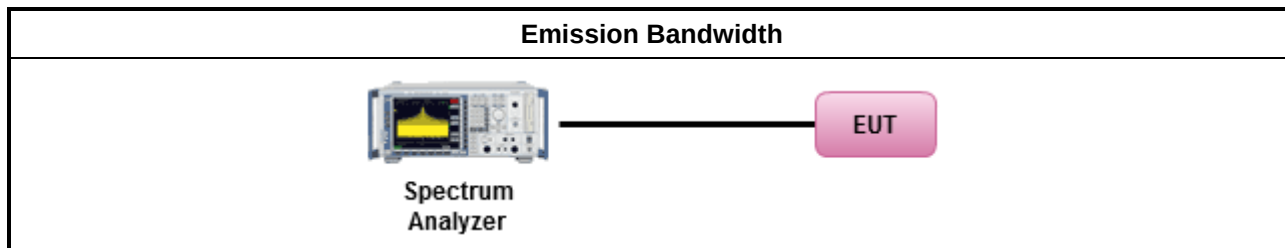
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                         |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing. |
| <input type="checkbox"/>            | Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.       |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Fundamental Emissions

#### 3.3.1 Fundamental Emissions Limit

| Fundamental Emissions E-Field Strength Limit (3m) |                                           |
|---------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/>                          | 902-928 MHz Band: 94 dBuV/m (quasi peak)  |
| <input checked="" type="checkbox"/>               | 2400-2483.5 MHz Band: 94 dBuV/m (average) |
| <input type="checkbox"/>                          | 5725-5875 MHz Band: 94 dBuV/m (average)   |

#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedures

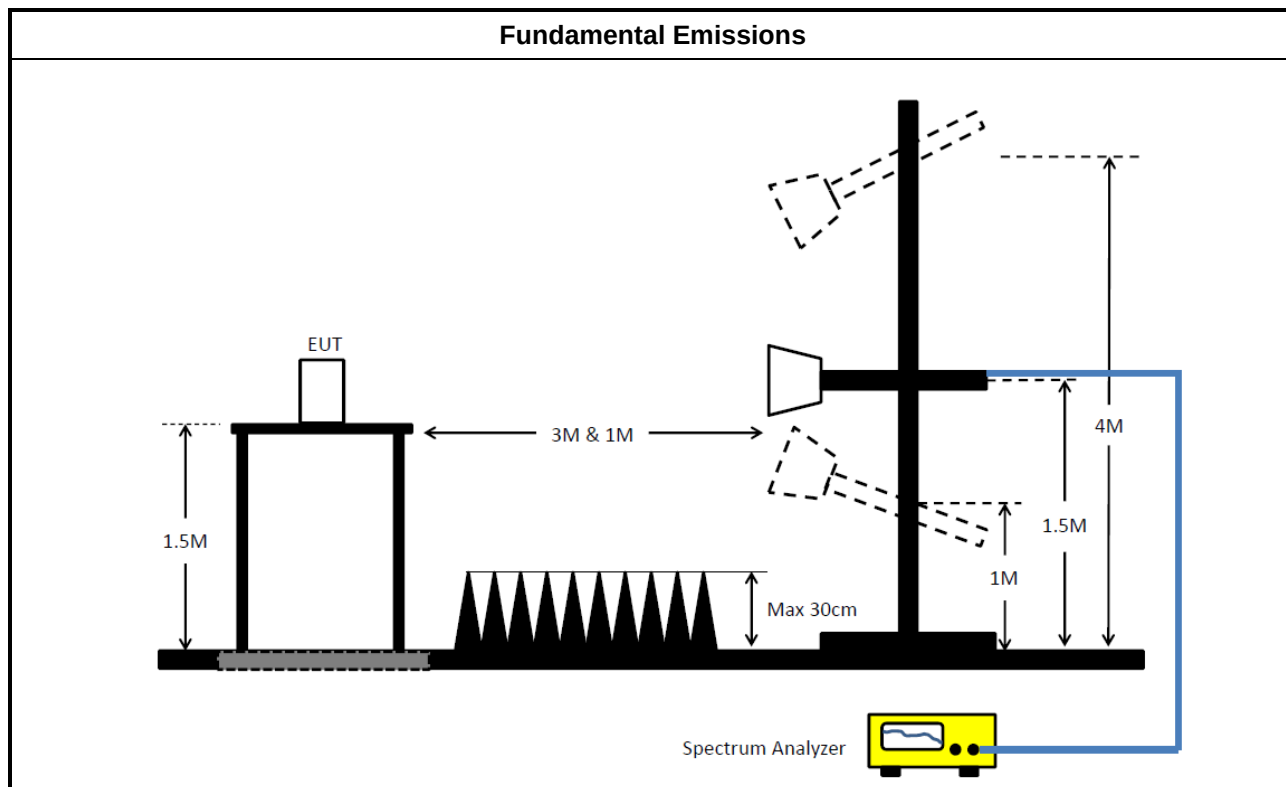
|                                     |                                                                                                                                                                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | The average emission levels shall be measured in [duty cycle $\geq$ 100 or by duty cycle correction factor].                                                                                                                              |
| <input checked="" type="checkbox"/> | For the transmitter emissions shall be measured using following options below:                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle $\geq$ 100%.                                                                                                                                                            |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$ . Average emission = peak emission + 20 log (duty cycle). |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.1.4.2.1 measurement procedure quasi-peak limit.                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.                                                                                                                                                                  |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.                                                                                                                                          |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.                                                                                                                                              |

#### 3.3.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

### 3.3.5 Test Setup



### 3.3.6 Test Result of Fundamental Emissions

Refer as Appendix C





### 3.4 Transmitter Radiated Unwanted Emissions

#### 3.4.1 Transmitter Radiated Unwanted Emissions Limit

| Transmitter Radiated Unwanted Emissions Limit |                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Harmonics:</b>                             |                                                                                               |
| <input checked="" type="checkbox"/>           | 54 dBuV/m (average)                                                                           |
| <b>Other Unwanted Emissions:</b>              |                                                                                               |
| <input checked="" type="checkbox"/>           | 50 dB below the level of the fundamental or Part 15.209, whichever is the lesser attenuation. |

#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

| Test Method – General Information   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). |
| <input checked="" type="checkbox"/> | The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.10.3 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle $\geq$ 100%.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100\text{ ms})$ . Average emission = peak emission + $20\log(\text{duty cycle})$ .                                                                                                                                                                                                                                                                           |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.1.4.2.1 measurement procedure quasi-peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input checked="" type="checkbox"/> | For the transmitter bandedge emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.10 for band-edge testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.10.6 for marker-delta method for band-edge measurements.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | For radiated measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> | The any unwanted emissions level shall not exceed the fundamental emission level.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.                                                                                                                                                                                                                                                                                                                                                                                          |

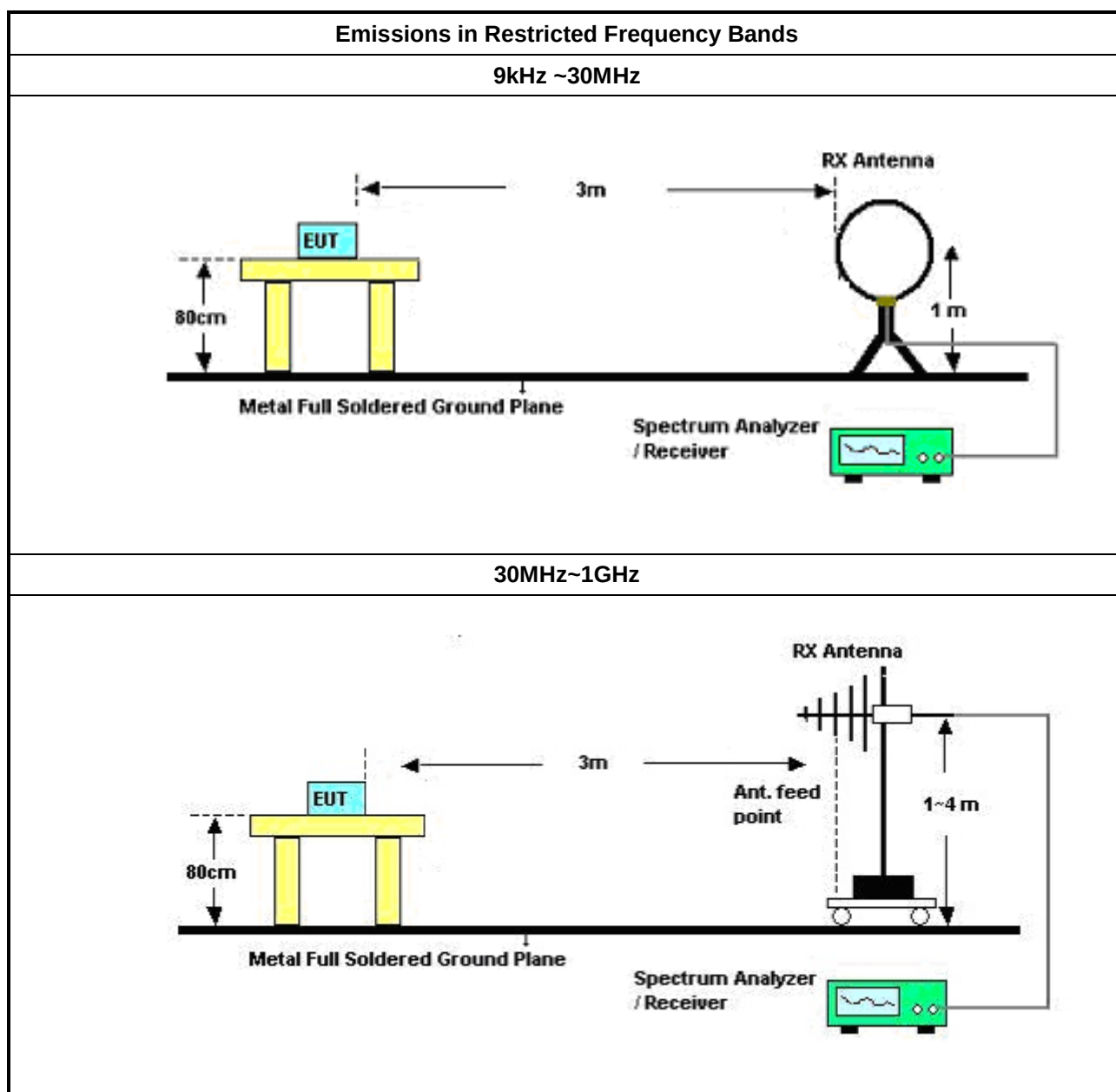
|                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>                                                                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> <li>▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul> |

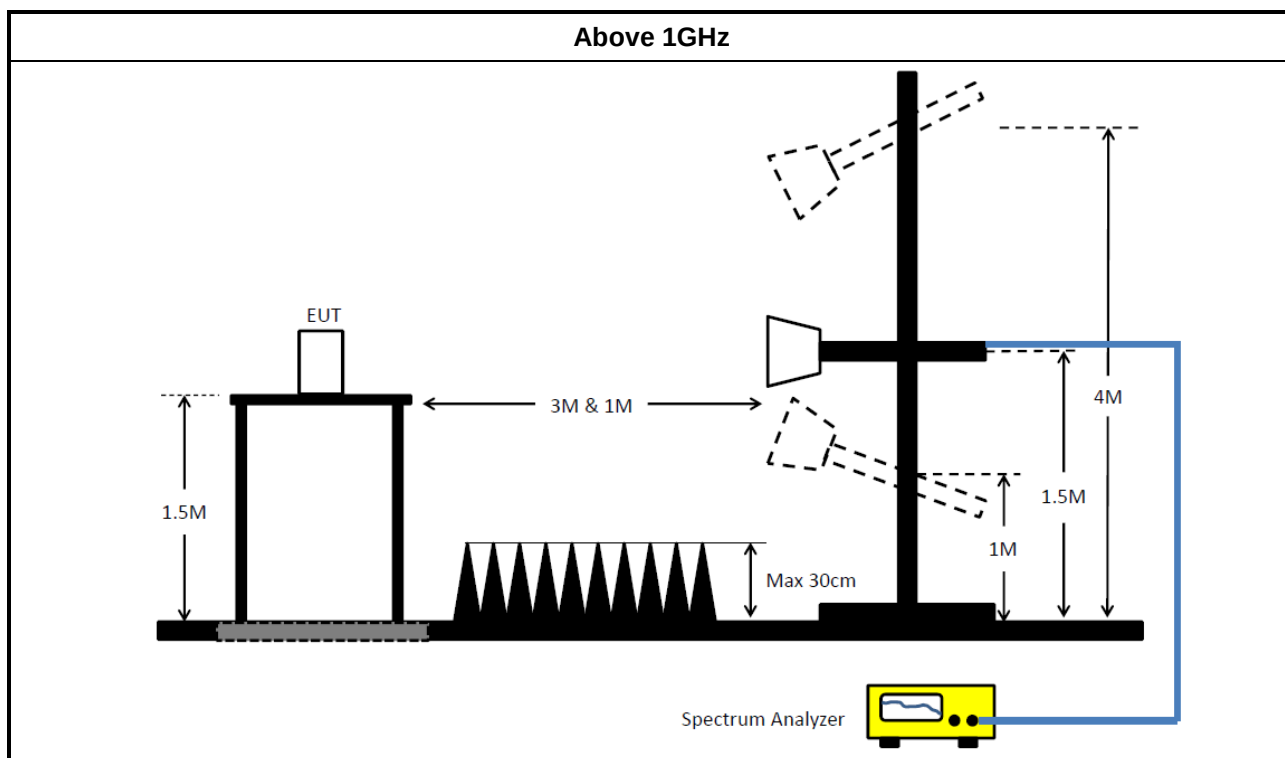
### 3.4.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

### 3.4.5 Test Setup





### 3.4.6 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

### 3.4.7 Transmitter Radiated Unwanted Emissions

Refer as Appendix C



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                        | Manufacturer /Brand | Model No.   | Serial No. | Spec.         | Calibration Date | Calibration Due Date |
|-----------------------------------|---------------------|-------------|------------|---------------|------------------|----------------------|
| EMI Test Receiver                 | R&S                 | ESR3        | 102051     | 9kHz ~ 3.6GHz | 29/May/2020      | 28/May/2021          |
| LISN                              | R&S                 | ENV216      | 101295     | 9kHz ~ 30MHz  | 11/Nov/2020      | 10/Nov/2021          |
| RF Cable-CON                      | MTJ                 | RG142       | CB002-CO   | 9kHz ~ 200MHz | 31/Aug/2020      | 30/Aug/2021          |
| Impuls Begrenzer<br>Pulse Limiter | SCHWARZBECK         | VTSD 9561-F | 9561-F041  | 9kHz ~ 30MHz  | 21/Sep/2020      | 20/Sep/2021          |

### Instrument for Radiated Test

| Instrument                       | Manufacturer /Brand | Model No.               | Serial No.                                     | Spec.            | Calibration Date | Calibration Due Date |
|----------------------------------|---------------------|-------------------------|------------------------------------------------|------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | TDK                 | SAC-3M                  | 03CH09-HY                                      | 30MHz~1GHz<br>3m | 27/Mar/2020      | 26/Mar/2021          |
| 3m Semi Anechoic Chamber         | TDK                 | SAC-3M                  | 03CH09-HY                                      | 1GHz~18GHz<br>3m | 19/Mar/2020      | 18/Mar/2021          |
| EXA Signal Analyzer              | KEYSIGHT            | N9010A                  | MY54200885                                     | 10Hz~44GHz       | 11/Aug/2020      | 10/Aug/2021          |
| Amplifier                        | EMC                 | EMC9135                 | 980232                                         | 9kHz~1GHz        | 14/Apr/2020      | 13/Apr/2021          |
| Microwave Preamplifier           | Agilent             | 8449B                   | 3008A02096                                     | 1GHz~26.5GHz     | 24/Jul/2020      | 23/Jul/2021          |
| Bilog Antenna & 5dB Attenuator   | TESEQ & MTJ         | CBL6111D&MTJ6<br>102-05 | 35418 & 3                                      | 30MHz~1GHz       | 06/Sep/2020      | 05/Sep/2021          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK         | BBHA 9120 D             | BBHA9120 D<br>1534                             | 1GHz~18GHz       | 28/May/2020      | 27/May/2021          |
| RF Cable-low                     | Jye Bao             | RG142                   | CB031+324530/4                                 | 9kHz~30MHz       | 03/Sep/2020      | 02/Sep/2021          |
| RF Cable-low                     | Jye Bao             | RG142                   | CB031+324530/4                                 | 30MHz~1GHz       | 09/Feb/2021      | 08/Feb/2022          |
| RF CABLE<br>5m+3m+1m             | HUBER+SUHNER        | SUCOFLEX104             | SN MY25918/4+<br>SN MY39478/4 +<br>SN 324530/4 | 1GHz~40GHz       | 15/Aug/2020      | 14/Aug/2021          |
| Broadband Horn Antenna           | SCHWARZBECK         | BBHA 9170               | BBHA 9170221                                   | 18GHz~40GHz      | 13/Mar/2020      | 12/Mar/2021          |
| Preamplifier                     | MITEQ               | TTA1840-35-HG           | 1864481                                        | 18GHz~40GHz      | 10/Mar/2020      | 09/Mar/2021          |
| Loop Antenna                     | TESEQ               | HLA 6120                | 31244                                          | 9kHz~30MHz       | 16/Mar/2020      | 15/Mar/2021          |
| EMI Test Receiver                | R&S                 | ESR3                    | 102051                                         | 9kHz~3.6GHz      | 29/May/2020      | 28/May/2021          |

**Instrument for Conducted Test**

| Instrument                     | Manufacturer /Brand | Model No. | Serial No. | Spec.        | Calibration Date | Calibration Due Date |
|--------------------------------|---------------------|-----------|------------|--------------|------------------|----------------------|
| Signal Analyzer                | R&S                 | FSV 40    | 101029     | 10Hz~40GHz   | 19/Oct/2020      | 18/Oct/2021          |
| SMB100A<br>Signal<br>Generator | R&S                 | SMB100A03 | 181147     | 100kHz~40GHz | 20/Oct/2020      | 19/Oct/2021          |
| Pulse Sensor                   | Anritsu             | MA2411B   | 1027452    | 300MHz~40GHz | 18/Mar/2020      | 17/Mar/2021          |
| Power Meter                    | Anritsu             | ML2495A   | 1124009    | 300MHz~40GHz | 18/Mar/2020      | 17/Mar/2021          |

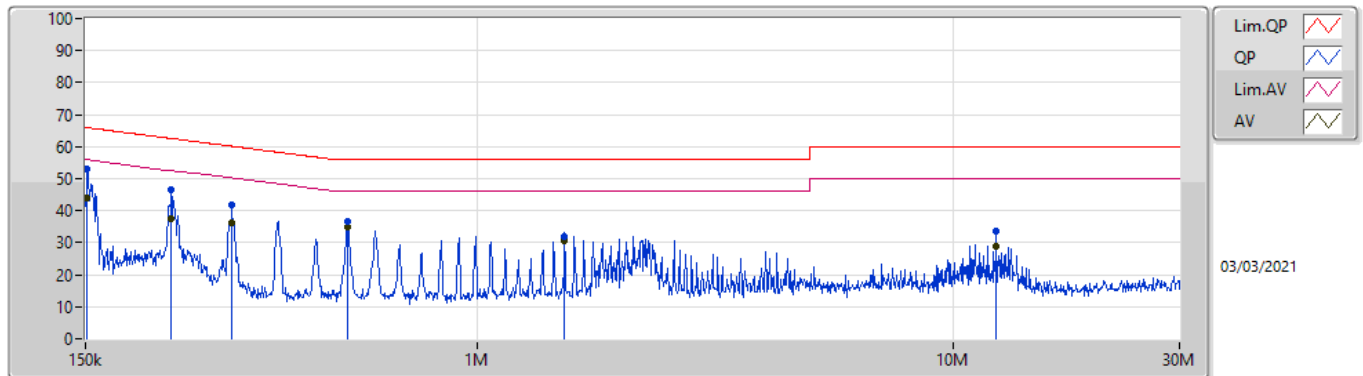
## Summary

| Mode   | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition |
|--------|--------|------|-----------|--------------|--------------|-------------|-----------|
| Mode 1 | Pass   | AV   | 533.841k  | 34.71        | 46.00        | -11.29      | Line      |

## Mode Configure

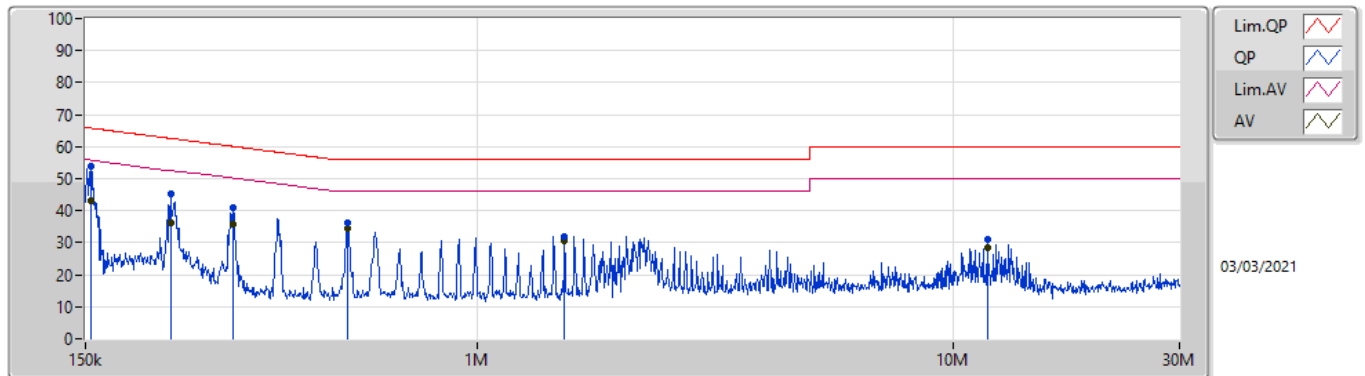
| Mode   | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition | Comments |
|--------|--------|------|-----------|--------------|--------------|-------------|-----------|----------|
| Mode 1 | Pass   | QP   | 151.202k  | 52.98        | 65.92        | -12.94      | Line      | -        |
| Mode 1 | Pass   | AV   | 151.202k  | 44.09        | 55.92        | -11.83      | Line      | -        |
| Mode 1 | Pass   | QP   | 227.194k  | 46.76        | 62.56        | -15.80      | Line      | -        |
| Mode 1 | Pass   | AV   | 227.194k  | 37.51        | 52.56        | -15.05      | Line      | -        |
| Mode 1 | Pass   | QP   | 305.276k  | 41.92        | 60.09        | -18.17      | Line      | -        |
| Mode 1 | Pass   | AV   | 305.276k  | 36.26        | 50.09        | -13.83      | Line      | -        |
| Mode 1 | Pass   | QP   | 533.841k  | 36.44        | 56.00        | -19.56      | Line      | -        |
| Mode 1 | Pass   | AV   | 533.841k  | 34.71        | 46.00        | -11.29      | Line      | -        |
| Mode 1 | Pass   | QP   | 1.525M    | 31.89        | 56.00        | -24.11      | Line      | -        |
| Mode 1 | Pass   | AV   | 1.525M    | 30.69        | 46.00        | -15.31      | Line      | -        |
| Mode 1 | Pass   | QP   | 12.355M   | 33.77        | 60.00        | -26.23      | Line      | -        |
| Mode 1 | Pass   | AV   | 12.355M   | 29.07        | 50.00        | -20.93      | Line      | -        |
| Mode 1 | Pass   | QP   | 154.251k  | 53.76        | 65.77        | -12.01      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 154.251k  | 43.22        | 55.77        | -12.55      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 226.289k  | 45.14        | 62.58        | -17.44      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 226.289k  | 36.11        | 52.58        | -16.47      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 306.497k  | 40.85        | 60.07        | -19.22      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 306.497k  | 35.64        | 50.07        | -14.43      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 533.841k  | 36.31        | 56.00        | -19.69      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 533.841k  | 34.50        | 46.00        | -11.50      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 1.525M    | 31.88        | 56.00        | -24.12      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 1.525M    | 30.57        | 46.00        | -15.43      | Neutral   | -        |
| Mode 1 | Pass   | QP   | 11.824M   | 31.06        | 60.00        | -28.94      | Neutral   | -        |
| Mode 1 | Pass   | AV   | 11.824M   | 28.51        | 50.00        | -21.49      | Neutral   | -        |

### Conducted Emissions at Powerline\_Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 151.202k     | 52.98           | 65.92           | -12.94         | 19.60          | Line      | -       | 33.38         | 9.69         | 0.01       | 9.90       |  |  |  |
| AV   | 151.202k     | 44.09           | 55.92           | -11.83         | 19.60          | Line      | -       | 24.49         | 9.69         | 0.01       | 9.90       |  |  |  |
| QP   | 227.194k     | 46.76           | 62.56           | -15.80         | 19.59          | Line      | -       | 27.17         | 9.68         | 0.01       | 9.90       |  |  |  |
| AV   | 227.194k     | 37.51           | 52.56           | -15.05         | 19.59          | Line      | -       | 17.92         | 9.68         | 0.01       | 9.90       |  |  |  |
| QP   | 305.276k     | 41.92           | 60.09           | -18.17         | 19.59          | Line      | -       | 22.33         | 9.67         | 0.02       | 9.90       |  |  |  |
| AV   | 305.276k     | 36.26           | 50.09           | -13.83         | 19.59          | Line      | -       | 16.67         | 9.67         | 0.02       | 9.90       |  |  |  |
| QP   | 533.841k     | 36.44           | 56.00           | -19.56         | 19.57          | Line      | -       | 16.87         | 9.67         | 0.03       | 9.87       |  |  |  |
| AV   | 533.841k     | 34.71           | 46.00           | -11.29         | 19.57          | Line      | -       | 15.14         | 9.67         | 0.03       | 9.87       |  |  |  |
| QP   | 1.525M       | 31.89           | 56.00           | -24.11         | 19.55          | Line      | -       | 12.34         | 9.68         | 0.07       | 9.80       |  |  |  |
| AV   | 1.525M       | 30.69           | 46.00           | -15.31         | 19.55          | Line      | -       | 11.14         | 9.68         | 0.07       | 9.80       |  |  |  |
| QP   | 12.355M      | 33.77           | 60.00           | -26.23         | 19.83          | Line      | -       | 13.94         | 9.70         | 0.23       | 9.90       |  |  |  |
| AV   | 12.355M      | 29.07           | 50.00           | -20.93         | 19.83          | Line      | -       | 9.24          | 9.70         | 0.23       | 9.90       |  |  |  |

## Conducted Emissions at Powerline\_Mode 1



| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 154.251k     | 53.76           | 65.77           | -12.01         | 19.60          | Neutral   | -       | 34.16         | 9.69         | 0.01       | 9.90       |  |  |  |
| AV   | 154.251k     | 43.22           | 55.77           | -12.55         | 19.60          | Neutral   | -       | 23.62         | 9.69         | 0.01       | 9.90       |  |  |  |
| QP   | 226.289k     | 45.14           | 62.58           | -17.44         | 19.59          | Neutral   | -       | 25.55         | 9.68         | 0.01       | 9.90       |  |  |  |
| AV   | 226.289k     | 36.11           | 52.58           | -16.47         | 19.59          | Neutral   | -       | 16.52         | 9.68         | 0.01       | 9.90       |  |  |  |
| QP   | 306.497k     | 40.85           | 60.07           | -19.22         | 19.59          | Neutral   | -       | 21.26         | 9.67         | 0.02       | 9.90       |  |  |  |
| AV   | 306.497k     | 35.64           | 50.07           | -14.43         | 19.59          | Neutral   | -       | 16.05         | 9.67         | 0.02       | 9.90       |  |  |  |
| QP   | 533.841k     | 36.31           | 56.00           | -19.69         | 19.57          | Neutral   | -       | 16.74         | 9.67         | 0.03       | 9.87       |  |  |  |
| AV   | 533.841k     | 34.50           | 46.00           | -11.50         | 19.57          | Neutral   | -       | 14.93         | 9.67         | 0.03       | 9.87       |  |  |  |
| QP   | 1.525M       | 31.88           | 56.00           | -24.12         | 19.55          | Neutral   | -       | 12.33         | 9.68         | 0.07       | 9.80       |  |  |  |
| AV   | 1.525M       | 30.57           | 46.00           | -15.43         | 19.55          | Neutral   | -       | 11.02         | 9.68         | 0.07       | 9.80       |  |  |  |
| QP   | 11.824M      | 31.06           | 60.00           | -28.94         | 19.86          | Neutral   | -       | 11.20         | 9.73         | 0.23       | 9.90       |  |  |  |
| AV   | 11.824M      | 28.51           | 50.00           | -21.49         | 19.86          | Neutral   | -       | 8.65          | 9.73         | 0.23       | 9.90       |  |  |  |



**Summary**

| Mode                | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|---------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz       | -                | -               | -        | -                | -               |
| SRD(1Mbps)_Nss1_1TX | 1.123M           | 825.837k        | 826KF1D. | 1.121M           | 824.588k        |
| SRD(2Mbps)_Nss1_1TX | 2.056M           | 1.494M          | 1M49F1D. | 2.049M           | 1.486M          |

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;  
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

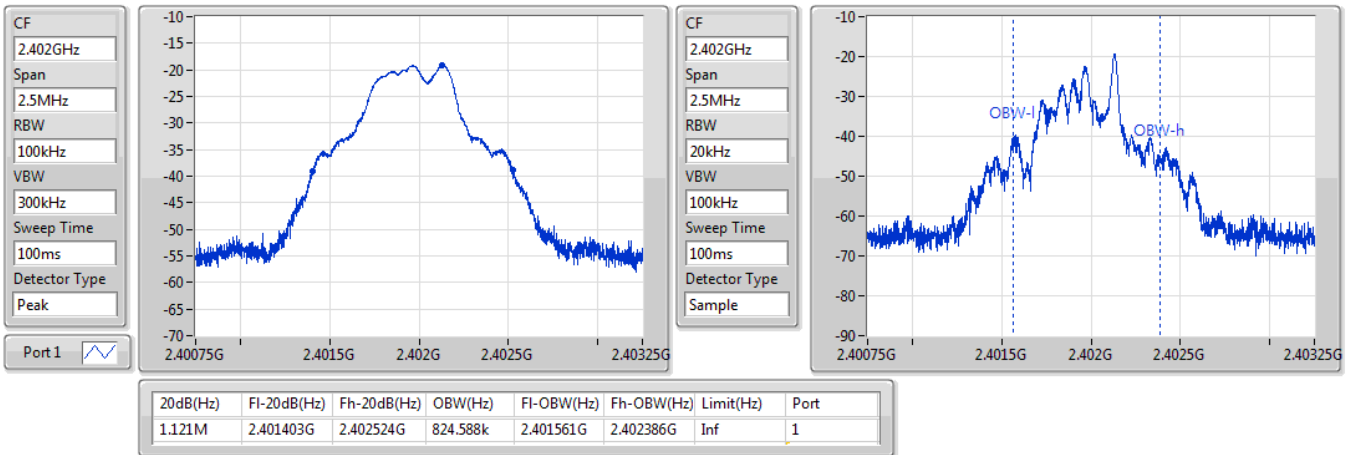
**Result**

| Mode                | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|---------------------|--------|---------------|---------------------|--------------------|
| SRD(1Mbps)_Nss1_1TX | -      | -             | -                   | -                  |
| 2402MHz             | Pass   | Inf           | 1.121M              | 824.588k           |
| 2440MHz             | Pass   | Inf           | 1.123M              | 825.837k           |
| 2480MHz             | Pass   | Inf           | 1.123M              | 824.588k           |
| SRD(2Mbps)_Nss1_1TX | -      | -             | -                   | -                  |
| 2402MHz             | Pass   | Inf           | 2.053M              | 1.486M             |
| 2440MHz             | Pass   | Inf           | 2.049M              | 1.492M             |
| 2480MHz             | Pass   | Inf           | 2.056M              | 1.494M             |

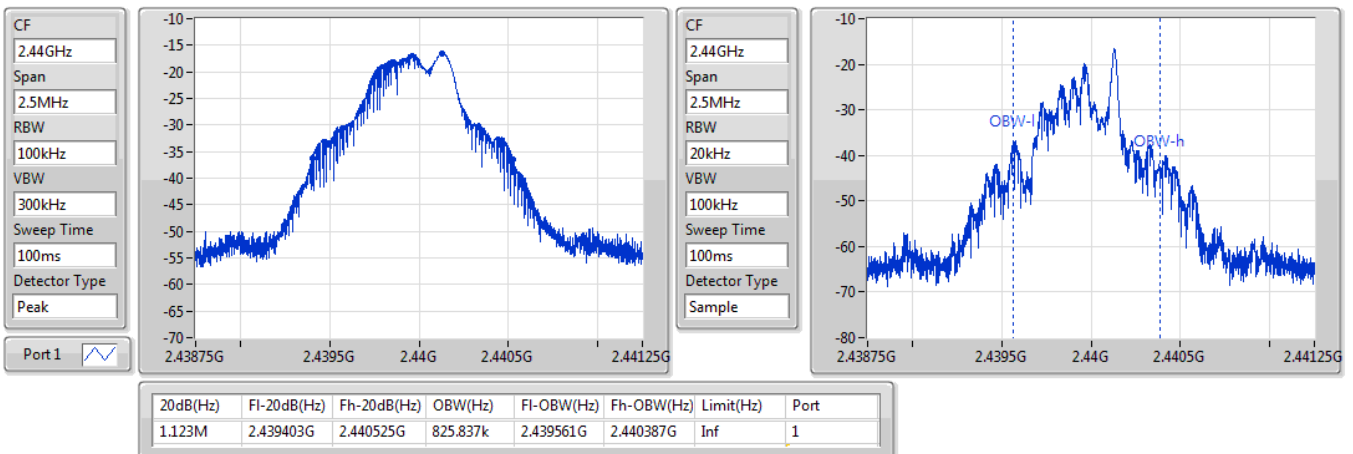
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

**SRD(1Mbps)\_Nss1\_1TX**
**EBW**
**2402MHz**

08/03/2021

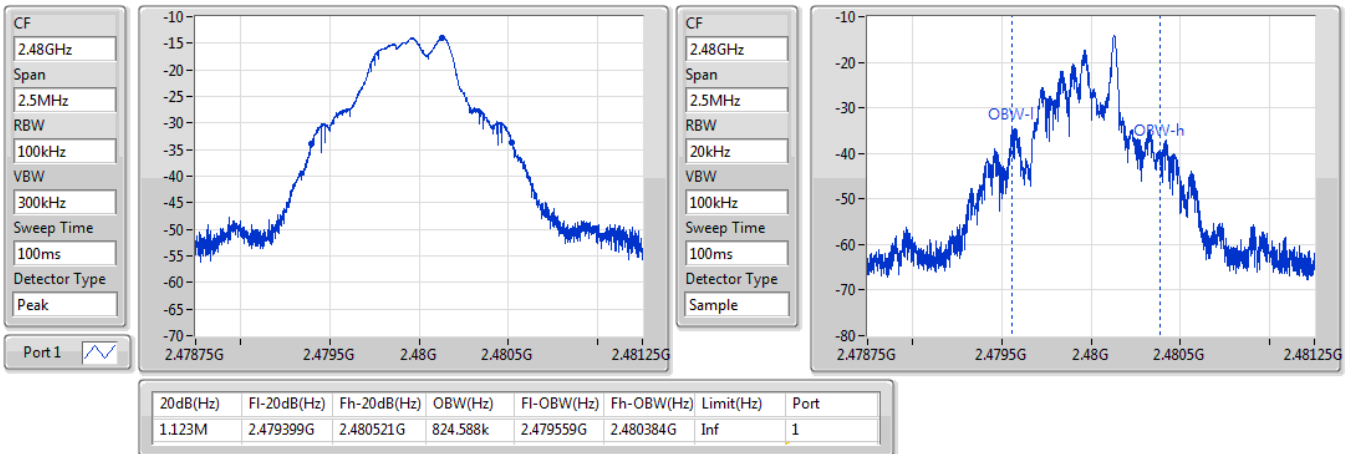

**SRD(1Mbps)\_Nss1\_1TX**
**EBW**
**2440MHz**

08/03/2021

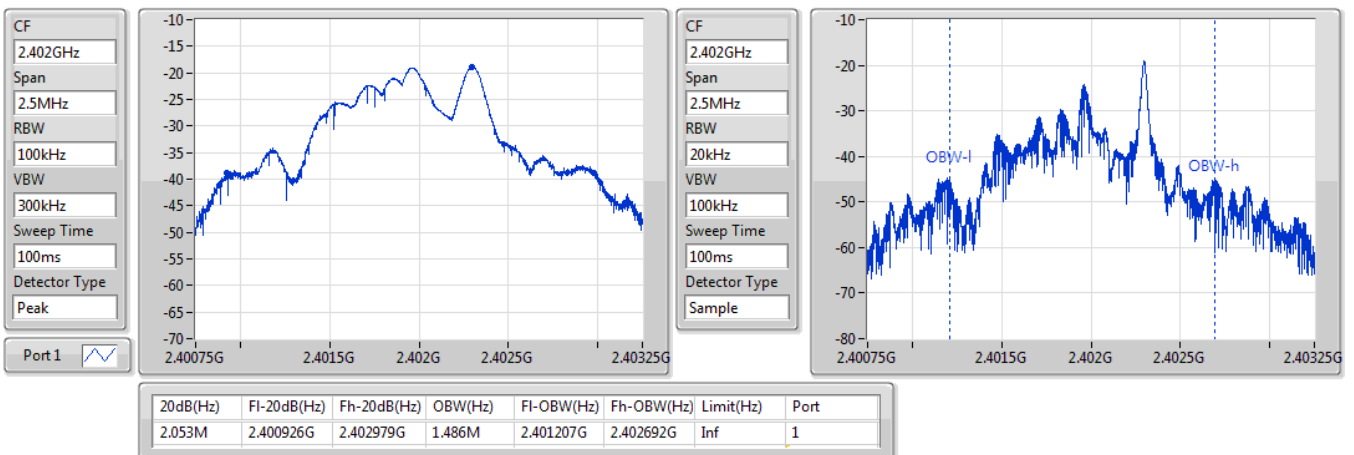


**SRD(1Mbps)\_Nss1\_1TX**
**EBW**
**2480MHz**

08/03/2021

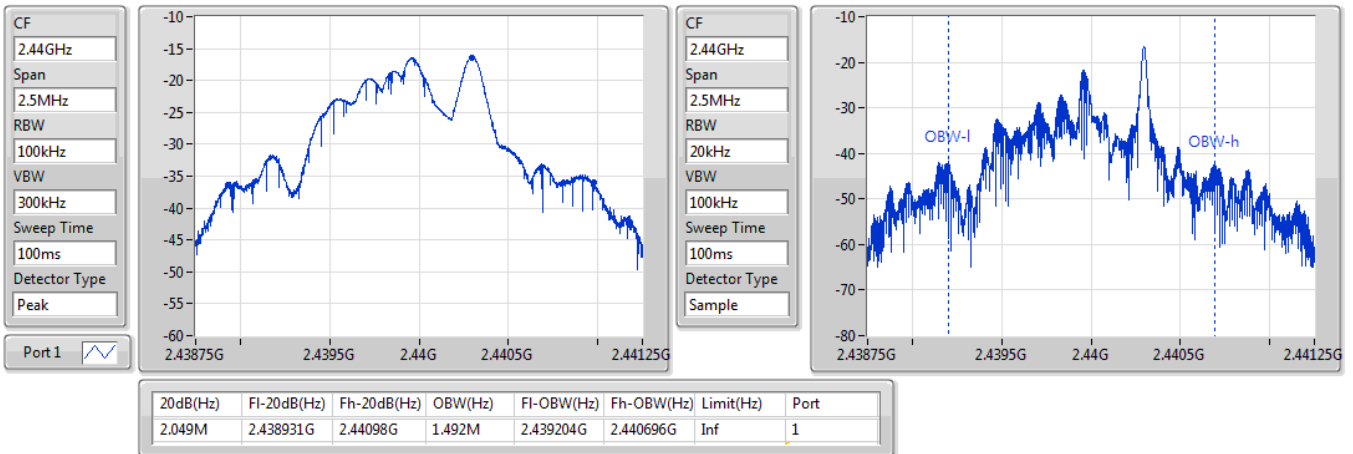

**SRD(2Mbps)\_Nss1\_1TX**
**EBW**
**2402MHz**

08/03/2021

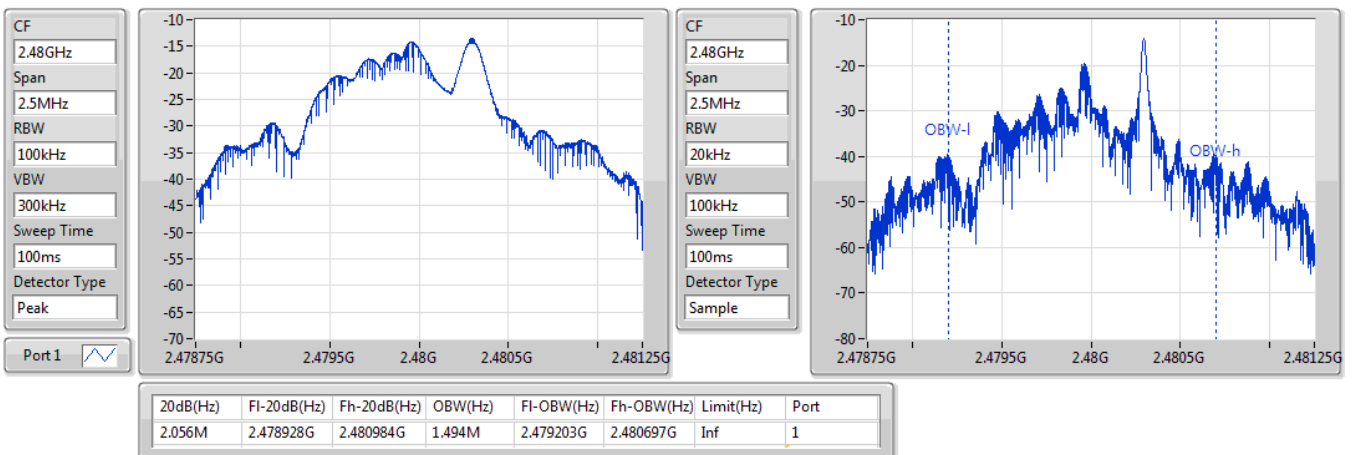


**SRD(2Mbps)\_Nss1\_1TX**
**EBW**
**2440MHz**

08/03/2021


**SRD(2Mbps)\_Nss1\_1TX**
**EBW**
**2480MHz**

08/03/2021





**Summary**

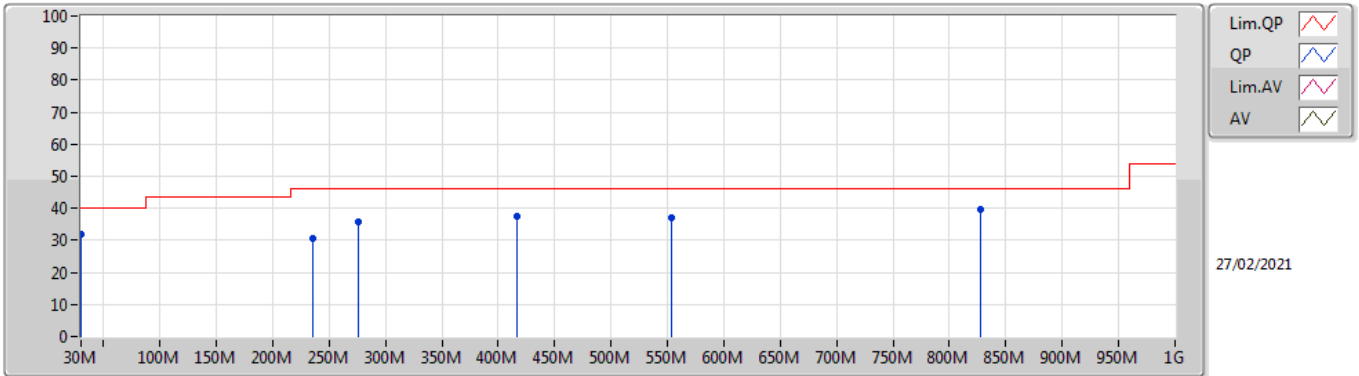
| Mode                | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz       | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| SRD(2Mbps)_Nss1_1TX | Pass   | PK   | 761.38M      | 42.07             | 46.00             | -3.93          | 3           | Horizontal | 0              | 1.00          | -        |

**Result**

| Mode                | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| SRD(2Mbps)_Nss1_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2440MHz             | Pass   | PK   | 30M          | 31.91             | 40.00             | -8.09          | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 235.64M      | 30.62             | 46.00             | -15.38         | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 276.38M      | 35.86             | 46.00             | -10.14         | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 416.06M      | 37.35             | 46.00             | -8.65          | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 553.8M       | 36.87             | 46.00             | -9.13          | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 827.34M      | 39.66             | 46.00             | -6.34          | 3           | Vertical   | 360            | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 99.84M       | 28.45             | 43.50             | -15.05         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 220.12M      | 30.92             | 46.00             | -15.08         | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 276.38M      | 37.96             | 46.00             | -8.04          | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 416.06M      | 38.76             | 46.00             | -7.24          | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 761.38M      | 42.07             | 46.00             | -3.93          | 3           | Horizontal | 0              | 1.00          | -        |
| 2440MHz             | Pass   | PK   | 827.34M      | 40.57             | 46.00             | -5.43          | 3           | Horizontal | 0              | 1.00          | -        |

## SRD(2Mbps)\_Nss1\_1TX

### 2440MHz\_USB

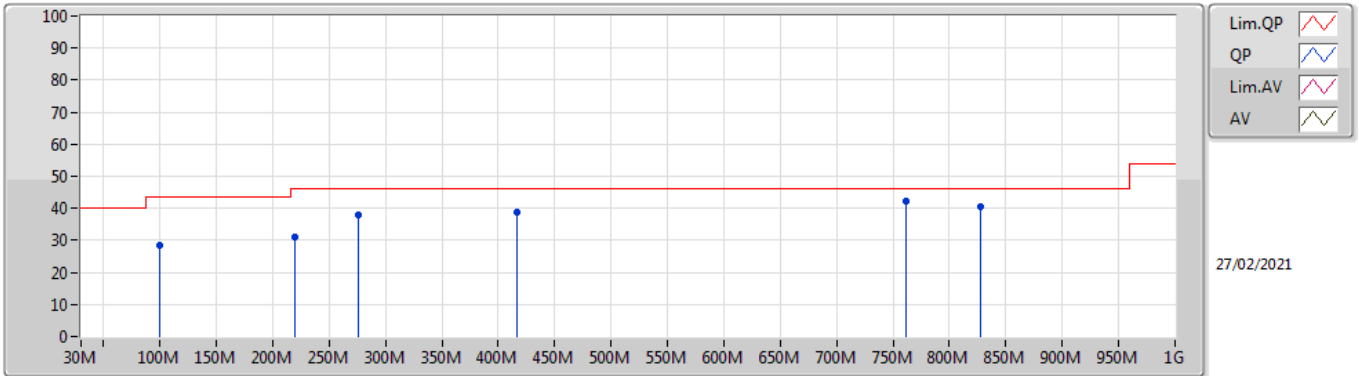


| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| PK   | 30M     | 31.91    | 40.00    | -8.09  | -13.04 | 3    | Vertical  | 360     | 1.00   | -       | 44.95  | 23.51 | 0.56 | 37.11 |
| PK   | 235.64M | 30.62    | 46.00    | -15.38 | -19.01 | 3    | Vertical  | 360     | 1.00   | -       | 49.63  | 15.90 | 1.45 | 36.36 |
| PK   | 276.38M | 35.86    | 46.00    | -10.14 | -16.95 | 3    | Vertical  | 360     | 1.00   | -       | 52.81  | 17.85 | 1.59 | 36.39 |
| PK   | 416.06M | 37.35    | 46.00    | -8.65  | -12.69 | 3    | Vertical  | 360     | 1.00   | -       | 50.04  | 21.82 | 1.97 | 36.48 |
| PK   | 553.8M  | 36.87    | 46.00    | -9.13  | -9.79  | 3    | Vertical  | 360     | 1.00   | -       | 46.66  | 24.92 | 2.39 | 37.10 |
| PK   | 827.34M | 39.66    | 46.00    | -6.34  | -7.13  | 3    | Vertical  | 360     | 1.00   | -       | 46.79  | 27.64 | 2.85 | 37.62 |



## SRD(2Mbps)\_Nss1\_1TX

### 2440MHz\_USB



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 99.84M       | 28.45             | 43.50             | -15.05         | -20.36         | 3           | Horizontal | 0              | 1.00          | -       | 48.81         | 15.23      | 0.97       | 36.56      |
| PK   | 220.12M      | 30.92             | 46.00             | -15.08         | -20.52         | 3           | Horizontal | 0              | 1.00          | -       | 51.44         | 14.37      | 1.39       | 36.28      |
| PK   | 276.38M      | 37.96             | 46.00             | -8.04          | -16.95         | 3           | Horizontal | 0              | 1.00          | -       | 54.91         | 17.85      | 1.59       | 36.39      |
| PK   | 416.06M      | 38.76             | 46.00             | -7.24          | -12.69         | 3           | Horizontal | 0              | 1.00          | -       | 51.45         | 21.82      | 1.97       | 36.48      |
| PK   | 761.38M      | 42.07             | 46.00             | -3.93          | -7.20          | 3           | Horizontal | 0              | 1.00          | -       | 49.27         | 27.29      | 2.78       | 37.27      |
| PK   | 827.34M      | 40.57             | 46.00             | -5.43          | -7.13          | 3           | Horizontal | 0              | 1.00          | -       | 47.70         | 27.64      | 2.85       | 37.62      |



**Summary**

| Mode                | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2.4-2.4835GHz       | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| SRD(1Mbps)_Nss1_1TX | Pass   | AV   | 2.44G        | 92.32             | 94.00             | -1.68          | 3           | Horizontal | 237            | 1.47          | -        |
| SRD(2Mbps)_Nss1_1TX | Pass   | AV   | 2.48G        | 92.57             | 94.00             | -1.43          | 3           | Horizontal | 236            | 1.04          | -        |

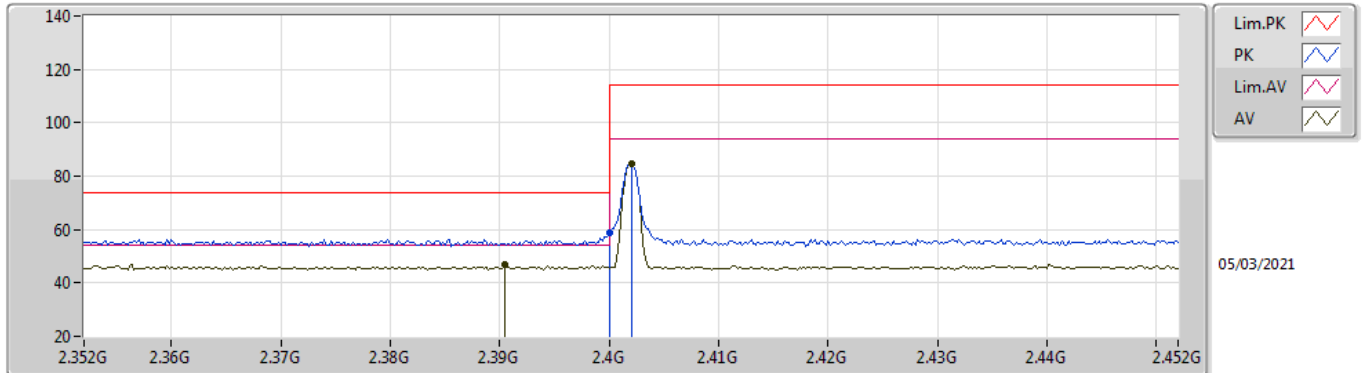
## Result

| Mode                | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition  | Azimuth (°) | Height (m) | Comments |
|---------------------|--------|------|-----------|----------------|----------------|-------------|----------|------------|-------------|------------|----------|
| SRD(1Mbps)_Nss1_1TX | -      | -    | -         | -              | -              | -           | -        | -          | -           | -          | -        |
| 2402MHz             | Pass   | AV   | 2.3904G   | 46.83          | 54.00          | -7.17       | 3        | Vertical   | 75          | 1.07       | -        |
| 2402MHz             | Pass   | AV   | 2.402G    | 84.63          | 94.00          | -9.37       | 3        | Vertical   | 75          | 1.07       | -        |
| 2402MHz             | Pass   | PK   | 2.4G      | 58.61          | 74.00          | -15.39      | 3        | Vertical   | 75          | 1.07       | -        |
| 2402MHz             | Pass   | PK   | 2.402G    | 84.81          | 114.00         | -29.19      | 3        | Vertical   | 75          | 1.07       | -        |
| 2402MHz             | Pass   | AV   | 2.3984G   | 46.85          | 54.00          | -7.15       | 3        | Horizontal | 238         | 1.00       | -        |
| 2402MHz             | Pass   | AV   | 2.402G    | 92.12          | 94.00          | -1.88       | 3        | Horizontal | 238         | 1.00       | -        |
| 2402MHz             | Pass   | PK   | 2.4G      | 64.58          | 74.00          | -9.42       | 3        | Horizontal | 238         | 1.00       | -        |
| 2402MHz             | Pass   | PK   | 2.402G    | 92.19          | 114.00         | -21.81      | 3        | Horizontal | 238         | 1.00       | -        |
| 2402MHz             | Pass   | AV   | 4.80391G  | 41.92          | 54.00          | -12.08      | 3        | Vertical   | 282         | 1.16       | -        |
| 2402MHz             | Pass   | PK   | 4.80378G  | 47.87          | 74.00          | -26.13      | 3        | Vertical   | 282         | 1.16       | -        |
| 2402MHz             | Pass   | AV   | 4.80397G  | 44.08          | 54.00          | -9.92       | 3        | Horizontal | 170         | 1.00       | -        |
| 2402MHz             | Pass   | PK   | 4.80368G  | 49.55          | 74.00          | -24.45      | 3        | Horizontal | 170         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.3508G   | 46.59          | 54.00          | -7.41       | 3        | Vertical   | 144         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.44G     | 88.55          | 94.00          | -5.45       | 3        | Vertical   | 144         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.4864G   | 46.77          | 54.00          | -7.23       | 3        | Vertical   | 144         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 2.3828G   | 56.14          | 74.00          | -17.86      | 3        | Vertical   | 144         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 2.44G     | 88.65          | 114.00         | -25.35      | 3        | Vertical   | 144         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 2.4916G   | 56.62          | 74.00          | -17.38      | 3        | Vertical   | 144         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.376G    | 46.71          | 54.00          | -7.29       | 3        | Horizontal | 237         | 1.47       | -        |
| 2440MHz             | Pass   | AV   | 2.44G     | 92.32          | 94.00          | -1.68       | 3        | Horizontal | 237         | 1.47       | -        |
| 2440MHz             | Pass   | AV   | 2.4872G   | 46.69          | 54.00          | -7.31       | 3        | Horizontal | 237         | 1.47       | -        |
| 2440MHz             | Pass   | PK   | 2.3696G   | 56.55          | 74.00          | -17.45      | 3        | Horizontal | 237         | 1.47       | -        |
| 2440MHz             | Pass   | PK   | 2.44G     | 92.39          | 114.00         | -21.61      | 3        | Horizontal | 237         | 1.47       | -        |
| 2440MHz             | Pass   | PK   | 2.4956G   | 56.89          | 74.00          | -17.11      | 3        | Horizontal | 237         | 1.47       | -        |
| 2440MHz             | Pass   | AV   | 4.88027G  | 48.65          | 54.00          | -5.35       | 3        | Vertical   | 256         | 1.28       | -        |
| 2440MHz             | Pass   | PK   | 4.8799G   | 52.46          | 74.00          | -21.54      | 3        | Vertical   | 256         | 1.28       | -        |
| 2440MHz             | Pass   | AV   | 4.87997G  | 45.70          | 54.00          | -8.30       | 3        | Horizontal | 169         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 4.87992G  | 50.42          | 74.00          | -23.58      | 3        | Horizontal | 169         | 1.00       | -        |
| 2480MHz             | Pass   | AV   | 2.48G     | 87.84          | 94.00          | -6.16       | 3        | Vertical   | 153         | 1.00       | -        |
| 2480MHz             | Pass   | AV   | 2.4956G   | 46.73          | 54.00          | -7.27       | 3        | Vertical   | 153         | 1.00       | -        |
| 2480MHz             | Pass   | PK   | 2.48G     | 87.97          | 114.00         | -26.03      | 3        | Vertical   | 153         | 1.00       | -        |
| 2480MHz             | Pass   | PK   | 2.4838G   | 56.62          | 74.00          | -17.38      | 3        | Vertical   | 153         | 1.00       | -        |
| 2480MHz             | Pass   | AV   | 2.48G     | 92.21          | 94.00          | -1.79       | 3        | Horizontal | 234         | 1.43       | -        |
| 2480MHz             | Pass   | AV   | 2.4928G   | 46.86          | 54.00          | -7.14       | 3        | Horizontal | 234         | 1.43       | -        |
| 2480MHz             | Pass   | PK   | 2.48G     | 92.30          | 114.00         | -21.70      | 3        | Horizontal | 234         | 1.43       | -        |
| 2480MHz             | Pass   | PK   | 2.4836G   | 60.39          | 74.00          | -13.61      | 3        | Horizontal | 234         | 1.43       | -        |
| 2480MHz             | Pass   | AV   | 4.96G     | 42.79          | 54.00          | -11.21      | 3        | Vertical   | 279         | 1.07       | -        |
| 2480MHz             | Pass   | PK   | 4.95992G  | 47.40          | 74.00          | -26.60      | 3        | Vertical   | 279         | 1.07       | -        |
| 2480MHz             | Pass   | AV   | 4.95993G  | 45.91          | 54.00          | -8.09       | 3        | Horizontal | 171         | 2.95       | -        |
| 2480MHz             | Pass   | PK   | 4.96008G  | 49.91          | 74.00          | -24.09      | 3        | Horizontal | 171         | 2.95       | -        |
| SRD(2Mbps)_Nss1_1TX | -      | -    | -         | -              | -              | -           | -        | -          | -           | -          | -        |
| 2402MHz             | Pass   | AV   | 2.3868G   | 46.62          | 54.00          | -7.38       | 3        | Vertical   | 123         | 1.16       | -        |
| 2402MHz             | Pass   | AV   | 2.402G    | 87.04          | 94.00          | -6.96       | 3        | Vertical   | 123         | 1.16       | -        |
| 2402MHz             | Pass   | PK   | 2.4G      | 60.09          | 74.00          | -13.91      | 3        | Vertical   | 123         | 1.16       | -        |
| 2402MHz             | Pass   | PK   | 2.402G    | 87.17          | 114.00         | -26.83      | 3        | Vertical   | 123         | 1.16       | -        |
| 2402MHz             | Pass   | AV   | 2.3996G   | 47.36          | 54.00          | -6.64       | 3        | Horizontal | 239         | 1.03       | -        |
| 2402MHz             | Pass   | AV   | 2.402G    | 92.24          | 94.00          | -1.76       | 3        | Horizontal | 239         | 1.03       | -        |
| 2402MHz             | Pass   | PK   | 2.4G      | 63.96          | 74.00          | -10.04      | 3        | Horizontal | 239         | 1.03       | -        |
| 2402MHz             | Pass   | PK   | 2.402G    | 92.31          | 114.00         | -21.69      | 3        | Horizontal | 239         | 1.03       | -        |
| 2402MHz             | Pass   | AV   | 4.80399G  | 42.14          | 54.00          | -11.86      | 3        | Vertical   | 283         | 1.17       | -        |
| 2402MHz             | Pass   | PK   | 4.80388G  | 47.96          | 74.00          | -26.04      | 3        | Vertical   | 283         | 1.17       | -        |
| 2402MHz             | Pass   | AV   | 4.80395G  | 44.41          | 54.00          | -9.59       | 3        | Horizontal | 169         | 1.00       | -        |
| 2402MHz             | Pass   | PK   | 4.8038G   | 49.31          | 74.00          | -24.69      | 3        | Horizontal | 169         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.3776G   | 46.43          | 54.00          | -7.57       | 3        | Vertical   | 145         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.44G     | 88.42          | 94.00          | -5.58       | 3        | Vertical   | 145         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.49G     | 46.91          | 54.00          | -7.09       | 3        | Vertical   | 145         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 2.3756G   | 56.48          | 74.00          | -17.52      | 3        | Vertical   | 145         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 2.44G     | 88.59          | 114.00         | -25.41      | 3        | Vertical   | 145         | 1.00       | -        |
| 2440MHz             | Pass   | PK   | 2.4892G   | 56.34          | 74.00          | -17.66      | 3        | Vertical   | 145         | 1.00       | -        |
| 2440MHz             | Pass   | AV   | 2.3568G   | 46.95          | 54.00          | -7.05       | 3        | Horizontal | 238         | 1.46       | -        |

| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2440MHz | Pass   | AV   | 2.44G        | 92.19             | 94.00             | -1.81          | 3           | Horizontal | 238            | 1.46          | -        |
| 2440MHz | Pass   | AV   | 2.4928G      | 47.08             | 54.00             | -6.92          | 3           | Horizontal | 238            | 1.46          | -        |
| 2440MHz | Pass   | PK   | 2.3764G      | 56.51             | 74.00             | -17.49         | 3           | Horizontal | 238            | 1.46          | -        |
| 2440MHz | Pass   | PK   | 2.44G        | 92.28             | 114.00            | -21.72         | 3           | Horizontal | 238            | 1.46          | -        |
| 2440MHz | Pass   | PK   | 2.4912G      | 57.46             | 74.00             | -16.54         | 3           | Horizontal | 238            | 1.46          | -        |
| 2440MHz | Pass   | AV   | 4.87998G     | 42.71             | 54.00             | -11.29         | 3           | Vertical   | 282            | 1.01          | -        |
| 2440MHz | Pass   | PK   | 4.8799G      | 47.56             | 74.00             | -26.44         | 3           | Vertical   | 282            | 1.01          | -        |
| 2440MHz | Pass   | AV   | 4.8799G      | 46.31             | 54.00             | -7.69          | 3           | Horizontal | 168            | 1.00          | -        |
| 2440MHz | Pass   | PK   | 4.87993G     | 50.94             | 74.00             | -23.06         | 3           | Horizontal | 168            | 1.00          | -        |
| 2480MHz | Pass   | AV   | 2.48G        | 88.52             | 94.00             | -5.48          | 3           | Vertical   | 143            | 1.00          | -        |
| 2480MHz | Pass   | AV   | 2.4962G      | 46.91             | 54.00             | -7.09          | 3           | Vertical   | 143            | 1.00          | -        |
| 2480MHz | Pass   | PK   | 2.48G        | 88.67             | 114.00            | -25.33         | 3           | Vertical   | 143            | 1.00          | -        |
| 2480MHz | Pass   | PK   | 2.4835G      | 57.95             | 74.00             | -16.05         | 3           | Vertical   | 143            | 1.00          | -        |
| 2480MHz | Pass   | AV   | 2.48G        | 92.57             | 94.00             | -1.43          | 3           | Horizontal | 236            | 1.04          | -        |
| 2480MHz | Pass   | AV   | 2.4848G      | 47.05             | 54.00             | -6.95          | 3           | Horizontal | 236            | 1.04          | -        |
| 2480MHz | Pass   | PK   | 2.48G        | 92.65             | 114.00            | -21.35         | 3           | Horizontal | 236            | 1.04          | -        |
| 2480MHz | Pass   | PK   | 2.4835G      | 60.00             | 74.00             | -14.00         | 3           | Horizontal | 236            | 1.04          | -        |
| 2480MHz | Pass   | AV   | 4.95997G     | 43.94             | 54.00             | -10.06         | 3           | Vertical   | 279            | 1.07          | -        |
| 2480MHz | Pass   | PK   | 4.95992G     | 48.89             | 74.00             | -25.11         | 3           | Vertical   | 279            | 1.07          | -        |
| 2480MHz | Pass   | AV   | 4.95991G     | 46.47             | 54.00             | -7.53          | 3           | Horizontal | 172            | 2.96          | -        |
| 2480MHz | Pass   | PK   | 4.95996G     | 50.18             | 74.00             | -23.82         | 3           | Horizontal | 172            | 2.96          | -        |

## SRD(1Mbps)\_Nss1\_1TX

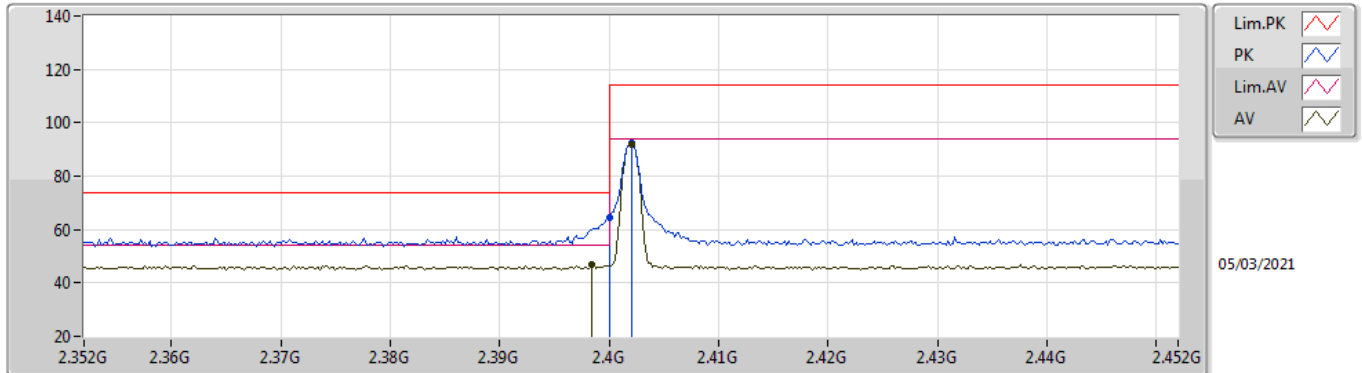
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3904G      | 46.83             | 54.00             | -7.17          | 31.53          | 3           | Vertical  | 75             | 1.07          | -       | 15.30         | 27.64      | 3.89       | -          |
| AV   | 2.402G       | 84.63             | 94.00             | -9.37          | 31.50          | 3           | Vertical  | 75             | 1.07          | -       | 53.13         | 27.60      | 3.90       | -          |
| PK   | 2.4G         | 58.61             | 74.00             | -15.39         | 31.50          | 3           | Vertical  | 75             | 1.07          | -       | 27.11         | 27.60      | 3.90       | -          |
| PK   | 2.402G       | 84.81             | 114.00            | -29.19         | 31.50          | 3           | Vertical  | 75             | 1.07          | -       | 53.31         | 27.60      | 3.90       | -          |

## SRD(1Mbps)\_Nss1\_1TX

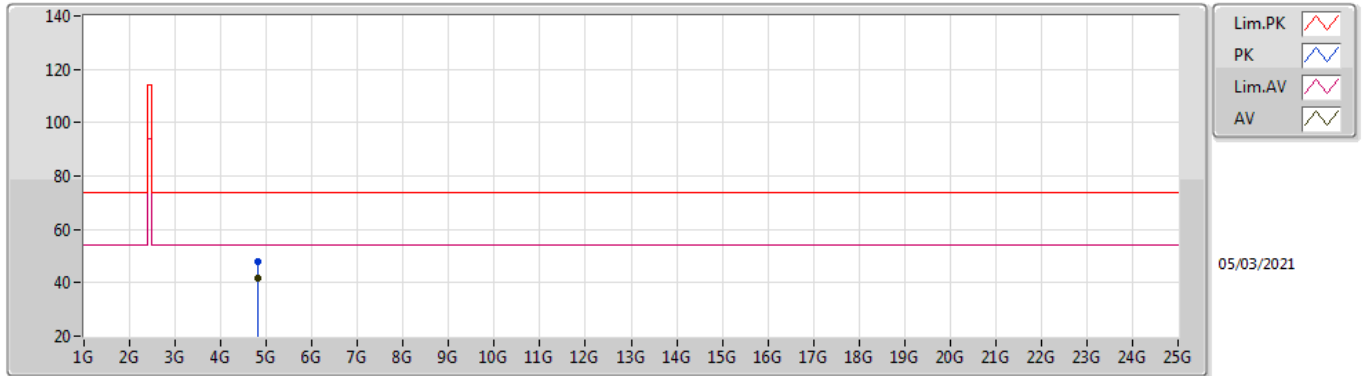
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3984G      | 46.85             | 54.00             | -7.15          | 31.51          | 3           | Horizontal | 238            | 1.00          | -       | 15.34         | 27.61      | 3.90       | -          |
| AV   | 2.402G       | 92.12             | 94.00             | -1.88          | 31.50          | 3           | Horizontal | 238            | 1.00          | -       | 60.62         | 27.60      | 3.90       | -          |
| PK   | 2.4G         | 64.58             | 74.00             | -9.42          | 31.50          | 3           | Horizontal | 238            | 1.00          | -       | 33.08         | 27.60      | 3.90       | -          |
| PK   | 2.402G       | 92.19             | 114.00            | -21.81         | 31.50          | 3           | Horizontal | 238            | 1.00          | -       | 60.69         | 27.60      | 3.90       | -          |

# SRD(1Mbps)\_Nss1\_1TX

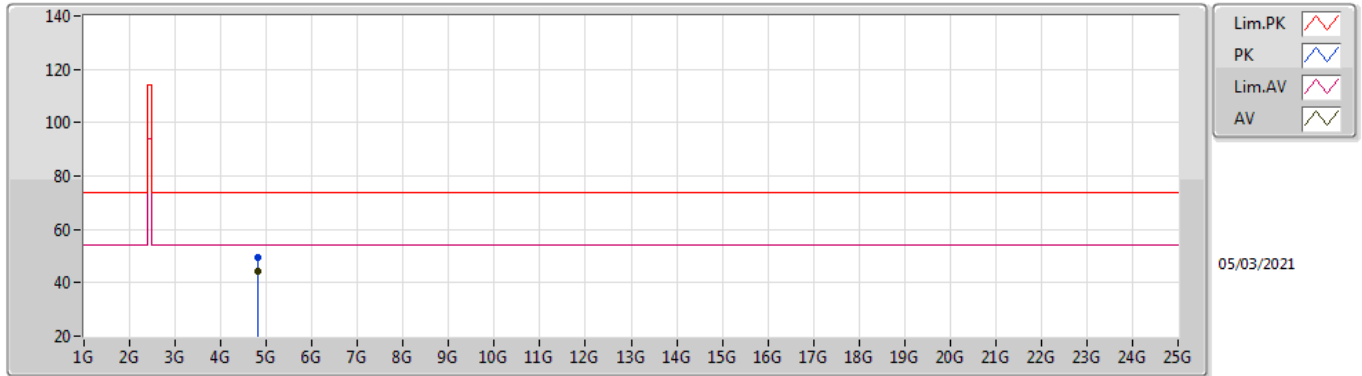
## 2402MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.80391G | 41.92    | 54.00    | -12.08 | 1.49   | 3    | Vertical  | 282     | 1.16   | -       | 40.43  | 31.12 | 5.30 | 34.93 |
| PK   | 4.80378G | 47.87    | 74.00    | -26.13 | 1.49   | 3    | Vertical  | 282     | 1.16   | -       | 46.38  | 31.12 | 5.30 | 34.93 |

## SRD(1Mbps)\_Nss1\_1TX

### 2402MHz\_TX

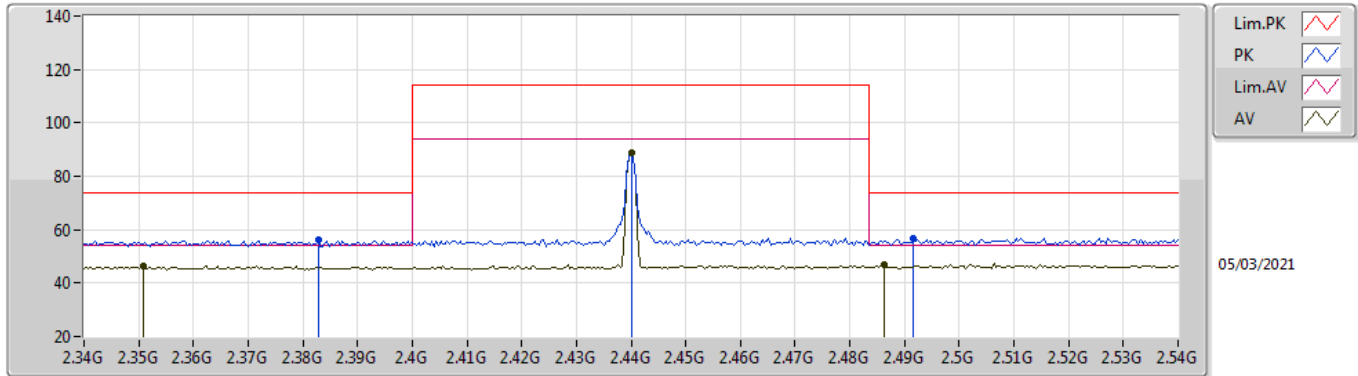


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.80397G | 44.08    | 54.00    | -9.92  | 1.49   | 3    | Horizontal | 170     | 1.00   | -       | 42.59  | 31.12 | 5.30 | 34.93 |
| PK   | 4.80368G | 49.55    | 74.00    | -24.45 | 1.48   | 3    | Horizontal | 170     | 1.00   | -       | 48.07  | 31.11 | 5.30 | 34.93 |



# SRD(1Mbps)\_Nss1\_1TX

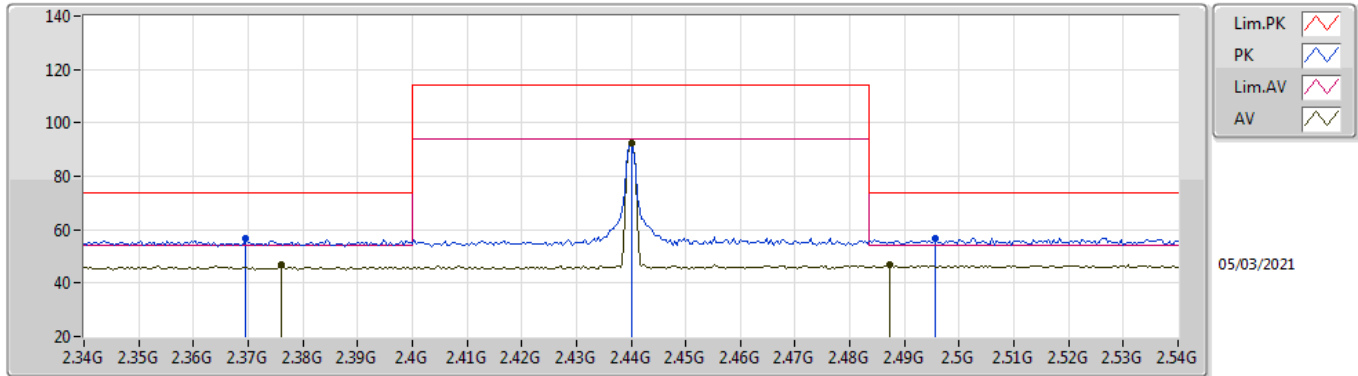
## 2440MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.3508G | 46.59    | 54.00    | -7.41  | 31.63  | 3    | Vertical  | 144     | 1.00   | -       | 14.96  | 27.80 | 3.83 | -    |
| AV   | 2.44G   | 88.55    | 94.00    | -5.45  | 31.56  | 3    | Vertical  | 144     | 1.00   | -       | 56.99  | 27.60 | 3.96 | -    |
| AV   | 2.4864G | 46.77    | 54.00    | -7.23  | 31.63  | 3    | Vertical  | 144     | 1.00   | -       | 15.14  | 27.60 | 4.03 | -    |
| PK   | 2.3828G | 56.14    | 74.00    | -17.86 | 31.54  | 3    | Vertical  | 144     | 1.00   | -       | 24.60  | 27.67 | 3.87 | -    |
| PK   | 2.44G   | 88.65    | 114.00   | -25.35 | 31.56  | 3    | Vertical  | 144     | 1.00   | -       | 57.09  | 27.60 | 3.96 | -    |
| PK   | 2.4916G | 56.62    | 74.00    | -17.38 | 31.64  | 3    | Vertical  | 144     | 1.00   | -       | 24.98  | 27.60 | 4.04 | -    |

# SRD(1Mbps)\_Nss1\_1TX

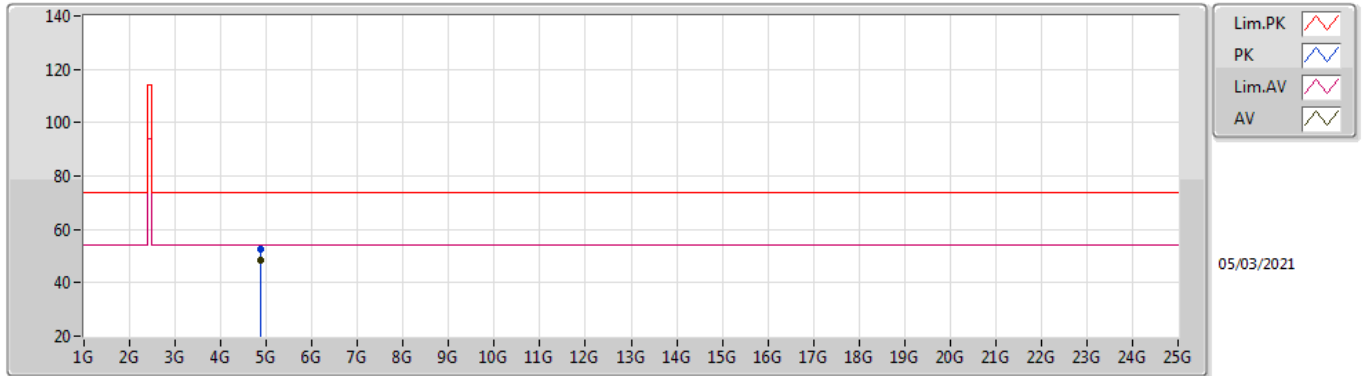
## 2440MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.376G  | 46.71    | 54.00    | -7.29  | 31.56  | 3    | Horizontal | 237     | 1.47   | -       | 15.15  | 27.70 | 3.86 | -    |
| AV   | 2.44G   | 92.32    | 94.00    | -1.68  | 31.56  | 3    | Horizontal | 237     | 1.47   | -       | 60.76  | 27.60 | 3.96 | -    |
| AV   | 2.4872G | 46.69    | 54.00    | -7.31  | 31.63  | 3    | Horizontal | 237     | 1.47   | -       | 15.06  | 27.60 | 4.03 | -    |
| PK   | 2.3696G | 56.55    | 74.00    | -17.45 | 31.57  | 3    | Horizontal | 237     | 1.47   | -       | 24.98  | 27.72 | 3.85 | -    |
| PK   | 2.44G   | 92.39    | 114.00   | -21.61 | 31.56  | 3    | Horizontal | 237     | 1.47   | -       | 60.83  | 27.60 | 3.96 | -    |
| PK   | 2.4956G | 56.89    | 74.00    | -17.11 | 31.64  | 3    | Horizontal | 237     | 1.47   | -       | 25.25  | 27.60 | 4.04 | -    |

## SRD(1Mbps)\_Nss1\_1TX

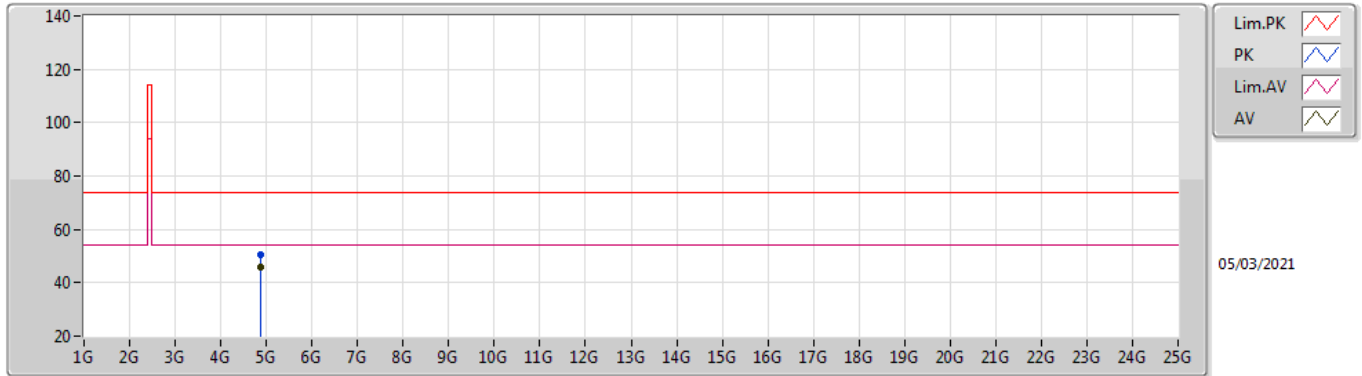
### 2440MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.88027G | 48.65    | 54.00    | -5.35  | 1.65   | 3    | Vertical  | 256     | 1.28   | -       | 47.00  | 31.24 | 5.34 | 34.93 |
| PK   | 4.8799G  | 52.46    | 74.00    | -21.54 | 1.65   | 3    | Vertical  | 256     | 1.28   | -       | 50.81  | 31.24 | 5.34 | 34.93 |

## SRD(1Mbps)\_Nss1\_1TX

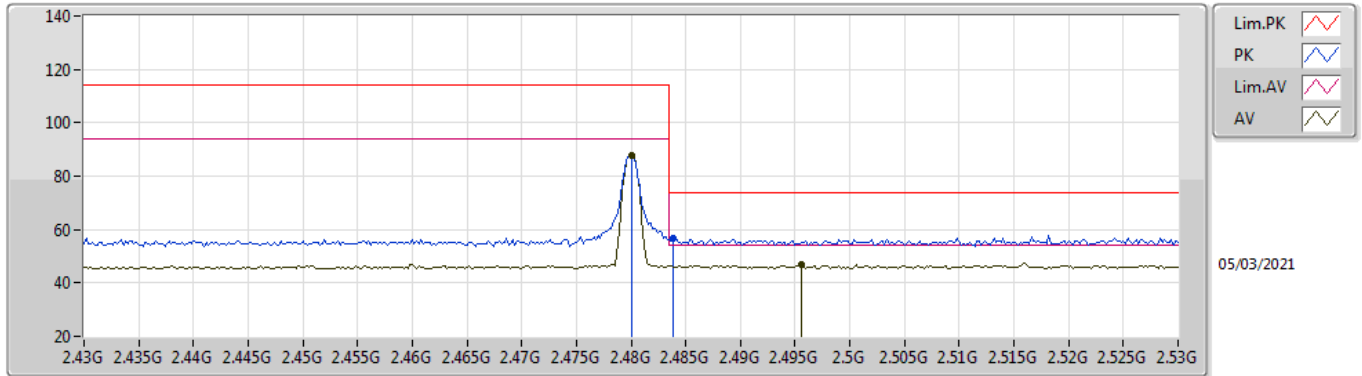
### 2440MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.87997G | 45.70    | 54.00    | -8.30  | 1.65   | 3    | Horizontal | 169     | 1.00   | -       | 44.05  | 31.24 | 5.34 | 34.93 |
| PK   | 4.87992G | 50.42    | 74.00    | -23.58 | 1.65   | 3    | Horizontal | 169     | 1.00   | -       | 48.77  | 31.24 | 5.34 | 34.93 |

## SRD(1Mbps)\_Nss1\_1TX

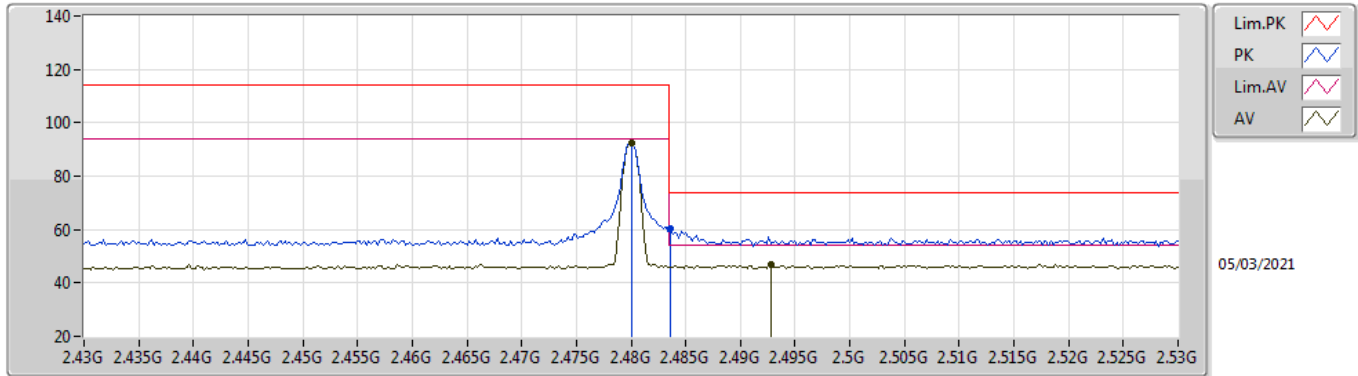
### 2480MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G   | 87.84    | 94.00    | -6.16  | 31.62  | 3    | Vertical  | 153     | 1.00   | -       | 56.22  | 27.60 | 4.02 | -    |
| AV   | 2.4956G | 46.73    | 54.00    | -7.27  | 31.64  | 3    | Vertical  | 153     | 1.00   | -       | 15.09  | 27.60 | 4.04 | -    |
| PK   | 2.48G   | 87.97    | 114.00   | -26.03 | 31.62  | 3    | Vertical  | 153     | 1.00   | -       | 56.35  | 27.60 | 4.02 | -    |
| PK   | 2.4838G | 56.62    | 74.00    | -17.38 | 31.63  | 3    | Vertical  | 153     | 1.00   | -       | 24.99  | 27.60 | 4.03 | -    |

# SRD(1Mbps)\_Nss1\_1TX

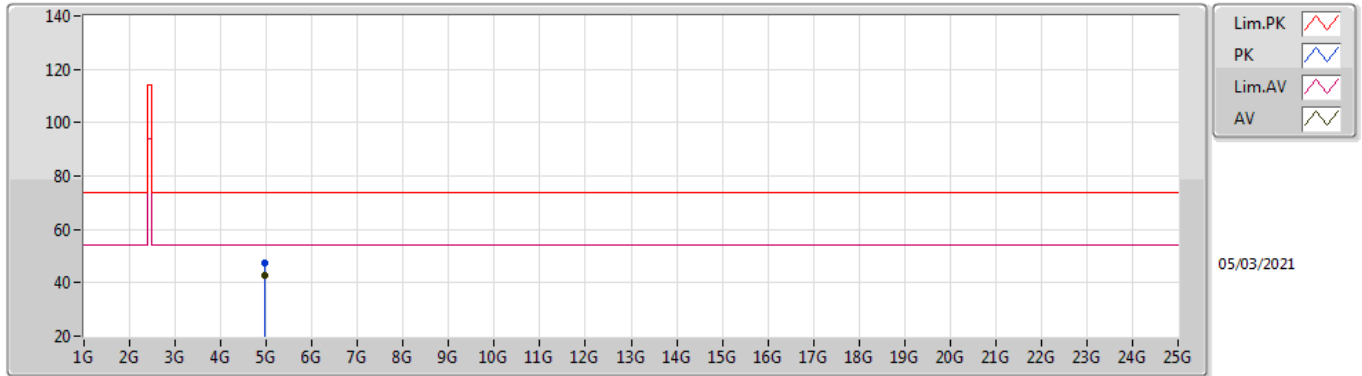
## 2480MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G   | 92.21    | 94.00    | -1.79  | 31.62  | 3    | Horizontal | 234     | 1.43   | -       | 60.59  | 27.60 | 4.02 | -    |
| AV   | 2.4928G | 46.86    | 54.00    | -7.14  | 31.64  | 3    | Horizontal | 234     | 1.43   | -       | 15.22  | 27.60 | 4.04 | -    |
| PK   | 2.48G   | 92.30    | 114.00   | -21.70 | 31.62  | 3    | Horizontal | 234     | 1.43   | -       | 60.68  | 27.60 | 4.02 | -    |
| PK   | 2.4836G | 60.39    | 74.00    | -13.61 | 31.63  | 3    | Horizontal | 234     | 1.43   | -       | 28.76  | 27.60 | 4.03 | -    |

## SRD(1Mbps)\_Nss1\_1TX

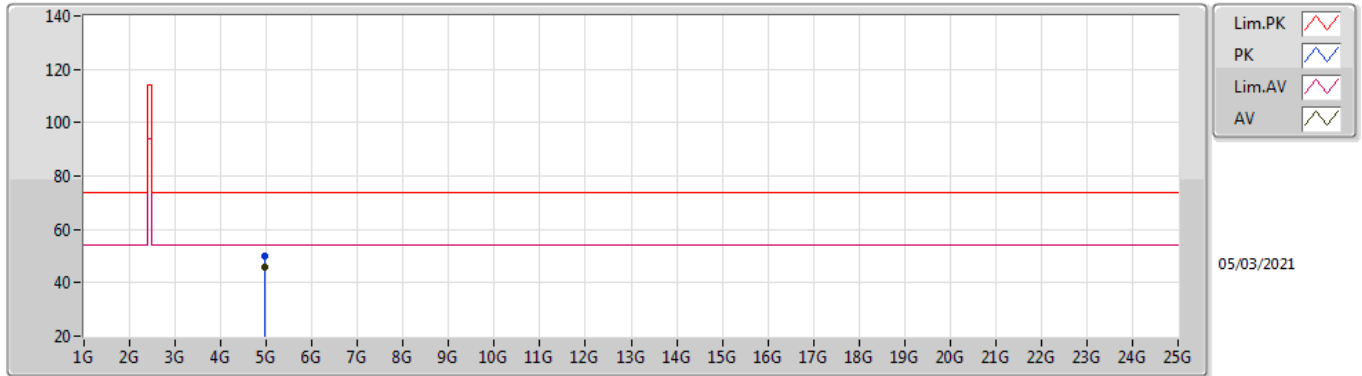
### 2480MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.96G        | 42.79             | 54.00             | -11.21         | 1.86           | 3           | Vertical  | 279            | 1.07          | -       | 40.93         | 31.42      | 5.38       | 34.94      |
| PK   | 4.95992G     | 47.40             | 74.00             | -26.60         | 1.86           | 3           | Vertical  | 279            | 1.07          | -       | 45.54         | 31.42      | 5.38       | 34.94      |

# SRD(1Mbps)\_Nss1\_1TX

## 2480MHz\_TX

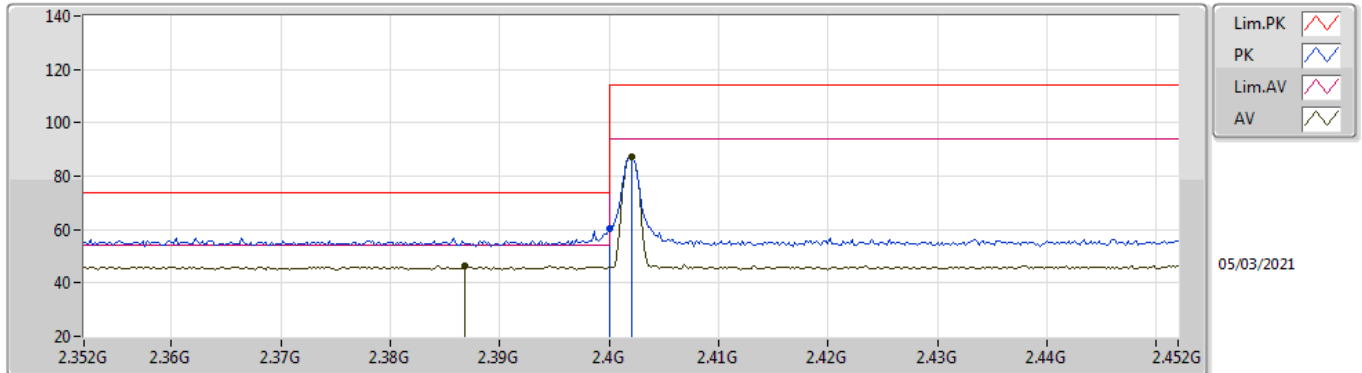


| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.95993G | 45.91    | 54.00    | -8.09  | 1.86   | 3    | Horizontal | 171     | 2.95   | -       | 44.05  | 31.42 | 5.38 | 34.94 |
| PK   | 4.96008G | 49.91    | 74.00    | -24.09 | 1.86   | 3    | Horizontal | 171     | 2.95   | -       | 48.05  | 31.42 | 5.38 | 34.94 |



# SRD(2Mbps)\_Nss1\_1TX

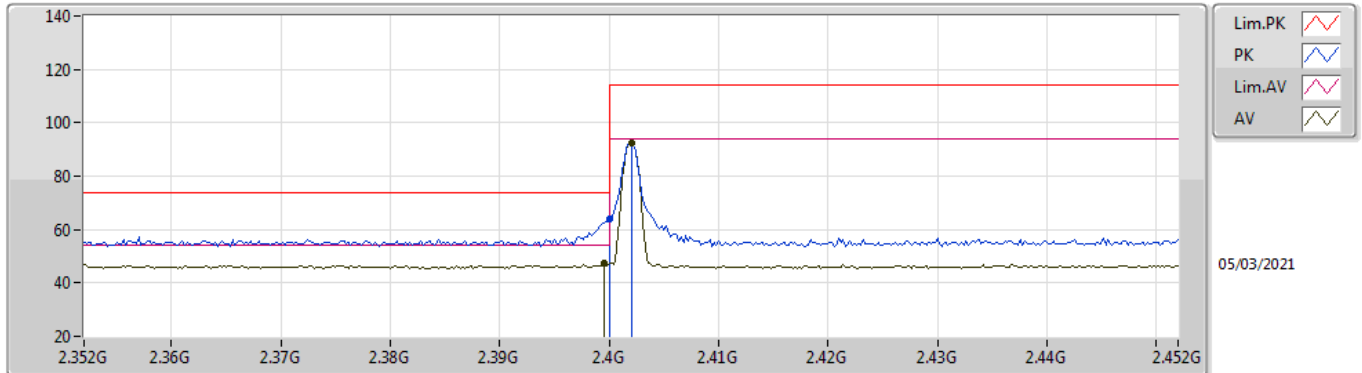
## 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3868G      | 46.62             | 54.00             | -7.38          | 31.53          | 3           | Vertical  | 123            | 1.16          | -       | 15.09         | 27.65      | 3.88       | -          |
| AV   | 2.402G       | 87.04             | 94.00             | -6.96          | 31.50          | 3           | Vertical  | 123            | 1.16          | -       | 55.54         | 27.60      | 3.90       | -          |
| PK   | 2.4G         | 60.09             | 74.00             | -13.91         | 31.50          | 3           | Vertical  | 123            | 1.16          | -       | 28.59         | 27.60      | 3.90       | -          |
| PK   | 2.402G       | 87.17             | 114.00            | -26.83         | 31.50          | 3           | Vertical  | 123            | 1.16          | -       | 55.67         | 27.60      | 3.90       | -          |

## SRD(2Mbps)\_Nss1\_1TX

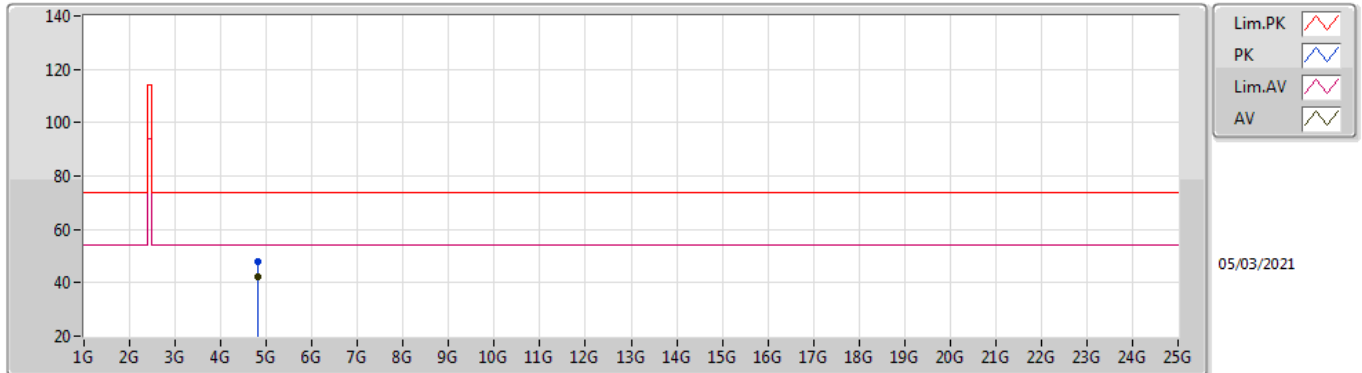
### 2402MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3996G      | 47.36             | 54.00             | -6.64          | 31.50          | 3           | Horizontal | 239            | 1.03          | -       | 15.86         | 27.60      | 3.90       | -          |
| AV   | 2.402G       | 92.24             | 94.00             | -1.76          | 31.50          | 3           | Horizontal | 239            | 1.03          | -       | 60.74         | 27.60      | 3.90       | -          |
| PK   | 2.4G         | 63.96             | 74.00             | -10.04         | 31.50          | 3           | Horizontal | 239            | 1.03          | -       | 32.46         | 27.60      | 3.90       | -          |
| PK   | 2.402G       | 92.31             | 114.00            | -21.69         | 31.50          | 3           | Horizontal | 239            | 1.03          | -       | 60.81         | 27.60      | 3.90       | -          |

# SRD(2Mbps)\_Nss1\_1TX

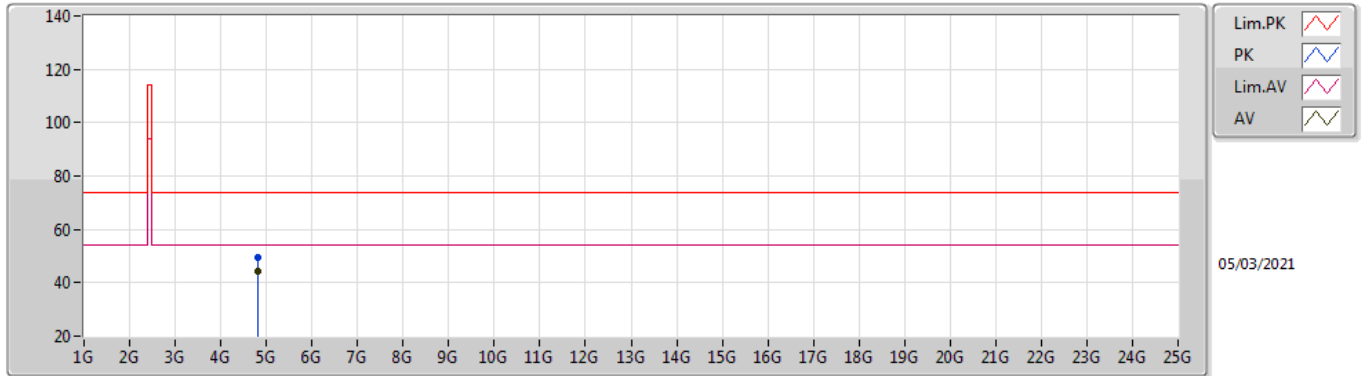
## 2402MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.80399G | 42.14    | 54.00    | -11.86 | 1.49   | 3    | Vertical  | 283     | 1.17   | -       | 40.65  | 31.12 | 5.30 | 34.93 |
| PK   | 4.80388G | 47.96    | 74.00    | -26.04 | 1.49   | 3    | Vertical  | 283     | 1.17   | -       | 46.47  | 31.12 | 5.30 | 34.93 |

## SRD(2Mbps)\_Nss1\_1TX

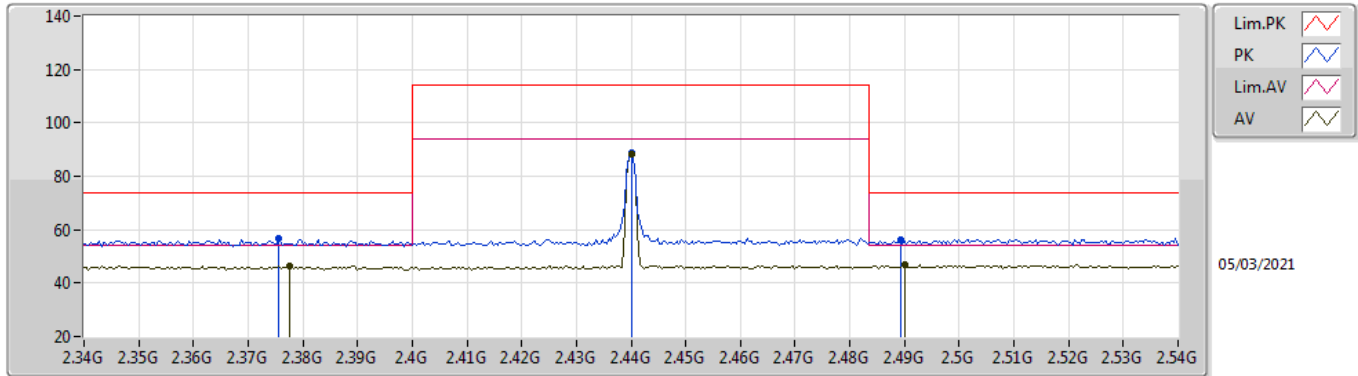
### 2402MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.80395G | 44.41    | 54.00    | -9.59  | 1.49   | 3    | Horizontal | 169     | 1.00   | -       | 42.92  | 31.12 | 5.30 | 34.93 |
| PK   | 4.8038G  | 49.31    | 74.00    | -24.69 | 1.49   | 3    | Horizontal | 169     | 1.00   | -       | 47.82  | 31.12 | 5.30 | 34.93 |

# SRD(2Mbps)\_Nss1\_1TX

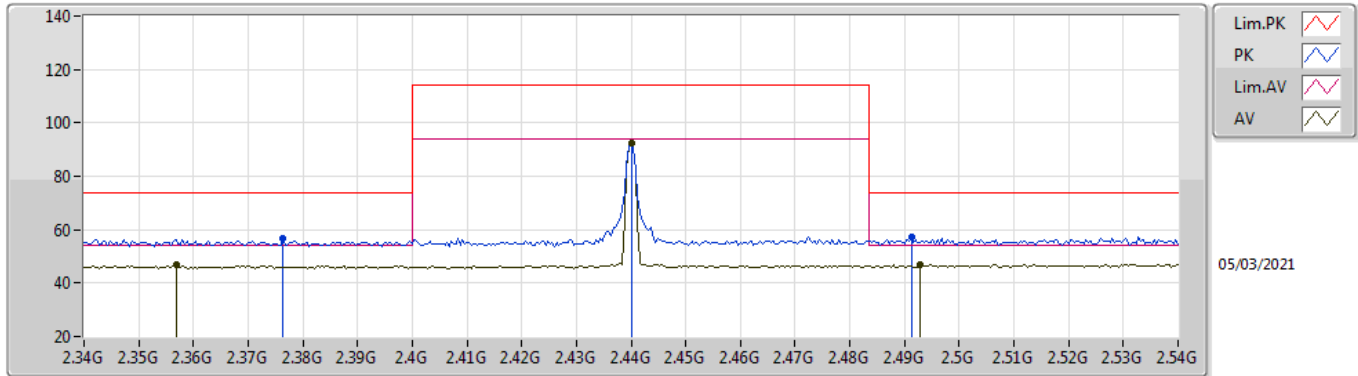
## 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3776G      | 46.43             | 54.00             | -7.57          | 31.56          | 3           | Vertical  | 145            | 1.00          | -       | 14.87         | 27.69      | 3.87       | -          |
| AV   | 2.44G        | 88.42             | 94.00             | -5.58          | 31.56          | 3           | Vertical  | 145            | 1.00          | -       | 56.86         | 27.60      | 3.96       | -          |
| AV   | 2.49G        | 46.91             | 54.00             | -7.09          | 31.64          | 3           | Vertical  | 145            | 1.00          | -       | 15.27         | 27.60      | 4.04       | -          |
| PK   | 2.3756G      | 56.48             | 74.00             | -17.52         | 31.56          | 3           | Vertical  | 145            | 1.00          | -       | 24.92         | 27.70      | 3.86       | -          |
| PK   | 2.44G        | 88.59             | 114.00            | -25.41         | 31.56          | 3           | Vertical  | 145            | 1.00          | -       | 57.03         | 27.60      | 3.96       | -          |
| PK   | 2.4892G      | 56.34             | 74.00             | -17.66         | 31.63          | 3           | Vertical  | 145            | 1.00          | -       | 24.71         | 27.60      | 4.03       | -          |

# SRD(2Mbps)\_Nss1\_1TX

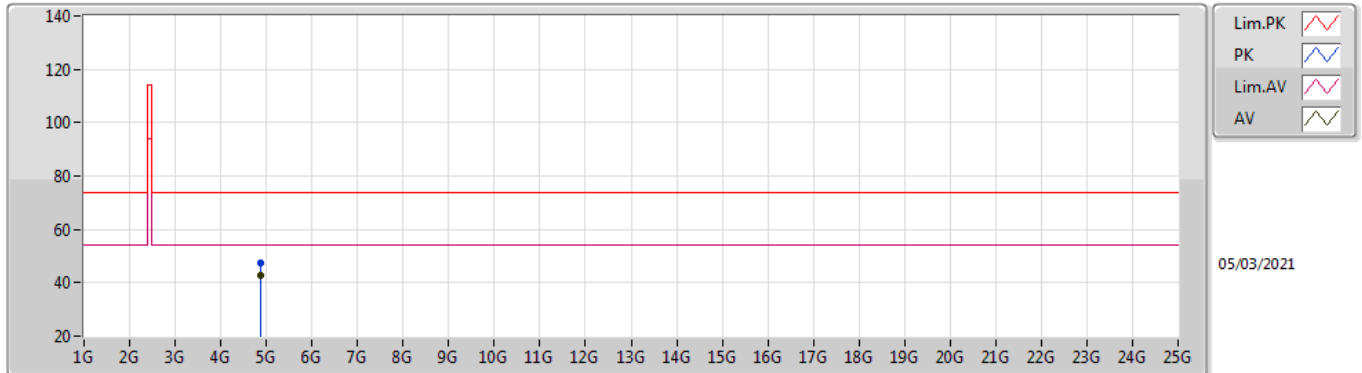
## 2440MHz\_TX



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3568G      | 46.95             | 54.00             | -7.05          | 31.61          | 3           | Horizontal | 238            | 1.46          | -       | 15.34         | 27.77      | 3.84       | -          |
| AV   | 2.44G        | 92.19             | 94.00             | -1.81          | 31.56          | 3           | Horizontal | 238            | 1.46          | -       | 60.63         | 27.60      | 3.96       | -          |
| AV   | 2.4928G      | 47.08             | 54.00             | -6.92          | 31.64          | 3           | Horizontal | 238            | 1.46          | -       | 15.44         | 27.60      | 4.04       | -          |
| PK   | 2.3764G      | 56.51             | 74.00             | -17.49         | 31.55          | 3           | Horizontal | 238            | 1.46          | -       | 24.96         | 27.69      | 3.86       | -          |
| PK   | 2.44G        | 92.28             | 114.00            | -21.72         | 31.56          | 3           | Horizontal | 238            | 1.46          | -       | 60.72         | 27.60      | 3.96       | -          |
| PK   | 2.4912G      | 57.46             | 74.00             | -16.54         | 31.64          | 3           | Horizontal | 238            | 1.46          | -       | 25.82         | 27.60      | 4.04       | -          |

## SRD(2Mbps)\_Nss1\_1TX

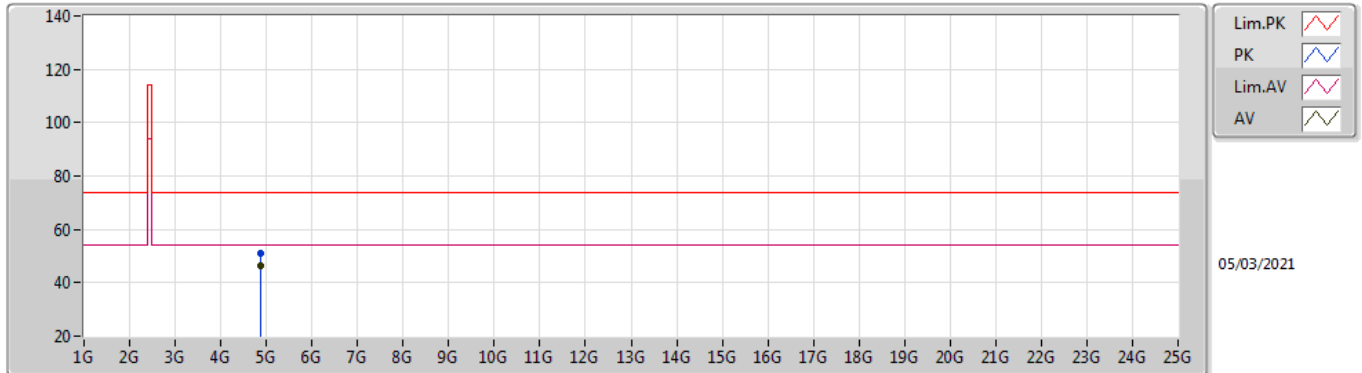
### 2440MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.87998G | 42.71    | 54.00    | -11.29 | 1.65   | 3    | Vertical  | 282     | 1.01   | -       | 41.06  | 31.24 | 5.34 | 34.93 |
| PK   | 4.8799G  | 47.56    | 74.00    | -26.44 | 1.65   | 3    | Vertical  | 282     | 1.01   | -       | 45.91  | 31.24 | 5.34 | 34.93 |

## SRD(2Mbps)\_Nss1\_1TX

### 2440MHz\_TX

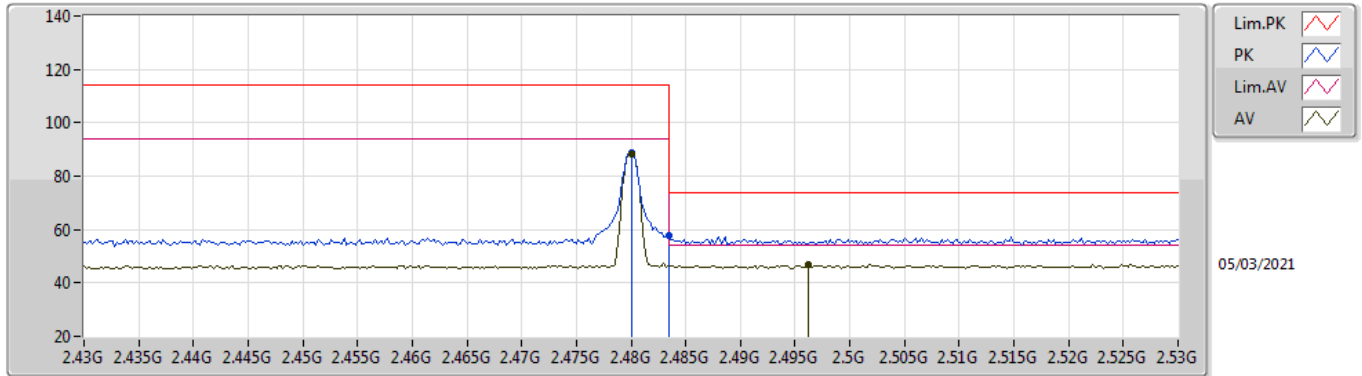


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8799G      | 46.31             | 54.00             | -7.69          | 1.65           | 3           | Horizontal | 168            | 1.00          | -       | 44.66         | 31.24      | 5.34       | 34.93      |
| PK   | 4.87993G     | 50.94             | 74.00             | -23.06         | 1.65           | 3           | Horizontal | 168            | 1.00          | -       | 49.29         | 31.24      | 5.34       | 34.93      |



## SRD(2Mbps)\_Nss1\_1TX

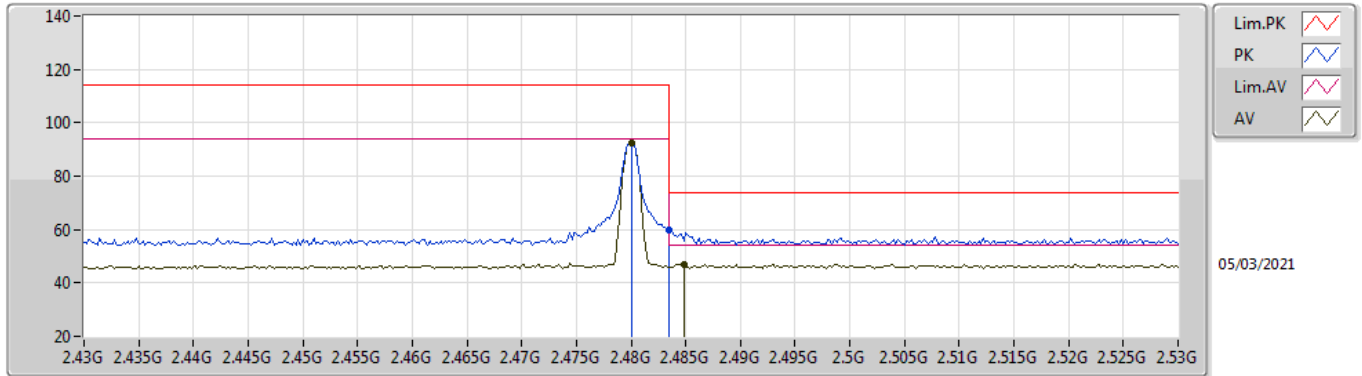
### 2480MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G   | 88.52    | 94.00    | -5.48  | 31.62  | 3    | Vertical  | 143     | 1.00   | -       | 56.90  | 27.60 | 4.02 | -    |
| AV   | 2.4962G | 46.91    | 54.00    | -7.09  | 31.64  | 3    | Vertical  | 143     | 1.00   | -       | 15.27  | 27.60 | 4.04 | -    |
| PK   | 2.48G   | 88.67    | 114.00   | -25.33 | 31.62  | 3    | Vertical  | 143     | 1.00   | -       | 57.05  | 27.60 | 4.02 | -    |
| PK   | 2.4835G | 57.95    | 74.00    | -16.05 | 31.63  | 3    | Vertical  | 143     | 1.00   | -       | 26.32  | 27.60 | 4.03 | -    |

## SRD(2Mbps)\_Nss1\_1TX

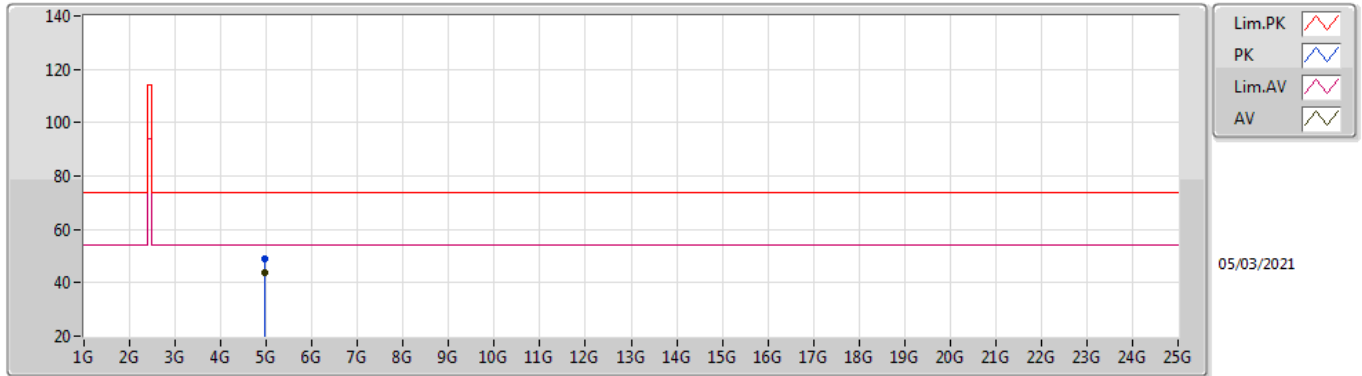
### 2480MHz\_TX



| Type | Freq    | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA   |
|------|---------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|------|
|      | (Hz)    | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB) |
| AV   | 2.48G   | 92.57    | 94.00    | -1.43  | 31.62  | 3    | Horizontal | 236     | 1.04   | -       | 60.95  | 27.60 | 4.02 | -    |
| AV   | 2.4848G | 47.05    | 54.00    | -6.95  | 31.63  | 3    | Horizontal | 236     | 1.04   | -       | 15.42  | 27.60 | 4.03 | -    |
| PK   | 2.48G   | 92.65    | 114.00   | -21.35 | 31.62  | 3    | Horizontal | 236     | 1.04   | -       | 61.03  | 27.60 | 4.02 | -    |
| PK   | 2.4835G | 60.00    | 74.00    | -14.00 | 31.63  | 3    | Horizontal | 236     | 1.04   | -       | 28.37  | 27.60 | 4.03 | -    |

## SRD(2Mbps)\_Nss1\_1TX

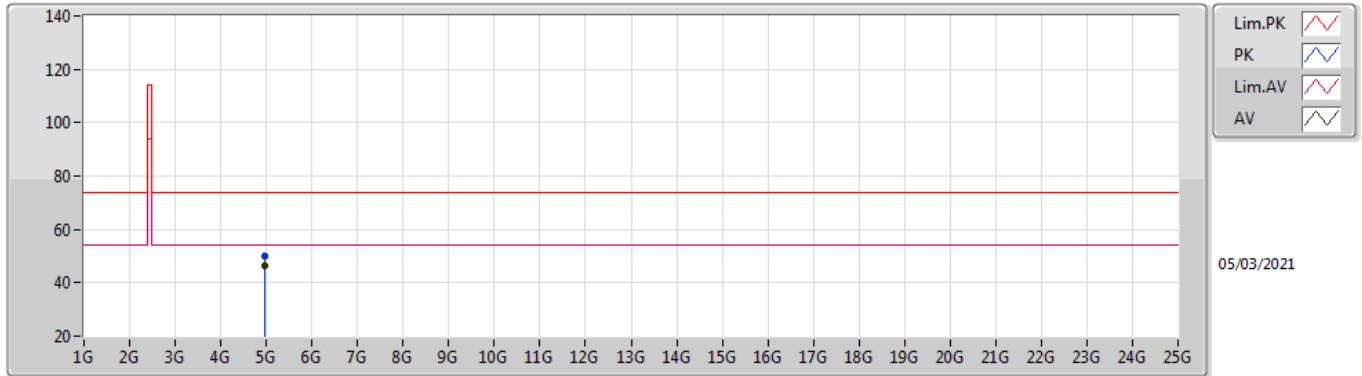
### 2480MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|-----------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.95997G | 43.94    | 54.00    | -10.06 | 1.86   | 3    | Vertical  | 279     | 1.07   | -       | 42.08  | 31.42 | 5.38 | 34.94 |
| PK   | 4.95992G | 48.89    | 74.00    | -25.11 | 1.86   | 3    | Vertical  | 279     | 1.07   | -       | 47.03  | 31.42 | 5.38 | 34.94 |

## SRD(2Mbps)\_Nss1\_1TX

### 2480MHz\_TX



| Type | Freq     | Level    | Limit    | Margin | Factor | Dist | Condition  | Azimuth | Height | Comment | Raw    | AF    | CL   | PA    |
|------|----------|----------|----------|--------|--------|------|------------|---------|--------|---------|--------|-------|------|-------|
|      | (Hz)     | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |            | (°)     | (m)    |         | (dBuV) | (dB)  | (dB) | (dB)  |
| AV   | 4.95991G | 46.47    | 54.00    | -7.53  | 1.86   | 3    | Horizontal | 172     | 2.96   | -       | 44.61  | 31.42 | 5.38 | 34.94 |
| PK   | 4.95996G | 50.18    | 74.00    | -23.82 | 1.86   | 3    | Horizontal | 172     | 2.96   | -       | 48.32  | 31.42 | 5.38 | 34.94 |