

# FCC Test Report

FCC ID : VUI-DPCP700X  
Equipment : IP Desktop Phone  
Brand Name : Unify  
Model Name : OpenScope Desk Phone CP700X  
Applicant : PEGATRON CORPORATION  
5F., NO. 76, LIGONG ST., BEITOU  
DISTRICT, TAIPEI CITY 11259 Taiwan  
Manufacturer : PEGATRON CORPORATION  
5F., NO. 76, LIGONG ST., BEITOU  
DISTRICT, TAIPEI CITY 11259 Taiwan  
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 12, 2020, and testing was started from Mar. 22, 2020 and completed on Apr. 18, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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

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## History of this test report

[illegible]

## 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           | 15.247(a)        | DTS Bandwidth                               | PASS               | -      |
| 3.3           | 15.247(b)        | Maximum Conducted Output Power              | PASS               | -      |
| 3.4           | 15.247(e)        | Power Spectral Density                      | PASS               | -      |
| 3.5           | 15.247(d)        | Emissions in Non-restricted Frequency Bands | PASS               | -      |
| 3.6           | 15.247(d)        | Emissions in Restricted Frequency Bands     | 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:**

None

**Reviewed by: Sam Tsai**

**Report Producer: Michelle Tsai**

# 1 General Description

## 1.1 Information

The EUT in the client mode it can support full band, in the master mode it can support band 1 & 4.

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|------------------|---------------------|----------------|
| 2400-2483.5           | b, g, n (HT20)   | 2412-2462           | 1-11 [11]      |

| Band          | Mode         | BWch (MHz) | Nant |
|---------------|--------------|------------|------|
| 2.4-2.4835GHz | 802.11b      | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11g      | 20         | 1TX  |
| 2.4-2.4835GHz | 802.11n HT20 | 20         | 1TX  |

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g and HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Brand | Model Name | Antenna Type | Connector |
|------|-------|------------|--------------|-----------|
| 1    | -     | -          | Printed      | N/A       |

| Ant. | Port | Gain (dBi) |      |      |
|------|------|------------|------|------|
|      |      | 2.4G       | 5G   | BT   |
| 1    | 1    | 3.37       | 2.59 | 3.37 |

Note 1: The EUT has one antenna.

#### For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

#### For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

#### For 5GHz function:

For IEEE 802.11 a/n/ac mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

**1.1.3 EUT Information**

| Operational Condition               |                                                                               |                                                         |  |
|-------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------|--|
| <b>EUT Power Type</b>               | From AC Adapter / PoE                                                         |                                                         |  |
| <b>EUT Function</b>                 | <input checked="" type="checkbox"/> Point-to-multipoint                       | <input type="checkbox"/> Point-to-point                 |  |
| <b>Beamforming Function</b>         | <input type="checkbox"/> With beamforming                                     | <input checked="" type="checkbox"/> Without beamforming |  |
| Type of EUT                         |                                                                               |                                                         |  |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                                                         |  |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                                                         |  |
|                                     | Combined Equipment - Brand Name / Model No.: ...                              |                                                         |  |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                                                         |  |
|                                     | Host System - Brand Name / Model No.: ...                                     |                                                         |  |
| <input type="checkbox"/>            | Other:                                                                        |                                                         |  |

**1.1.4 Mode Test Duty Cycle**

| Mode                         | DC    | DCF(dB) | T(s)   | VBW(Hz) $\geq 1/T$ |
|------------------------------|-------|---------|--------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | 0.991 | 0.04    | 8.418m | 10                 |
| 802.11g_Nss1,(6Mbps)_1TX     | 0.932 | 0.31    | 1.398m | 1k                 |
| 802.11n HT20_Nss1,(MCS0)_1TX | 0.929 | 0.32    | 1.309m | 1k                 |

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
- ♦ ANSI C63.10-2013

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location                           |          |                                                                                       |                      |
|--------------------------------------------|----------|---------------------------------------------------------------------------------------|----------------------|
| <input checked="" type="checkbox"/>        | HWA YA   | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)             |                      |
|                                            |          | TEL : 886-3-327-3456                                                                  | FAX : 886-3-327-0973 |
| Test site Designation No. TW1190 with FCC. |          |                                                                                       |                      |
| <input type="checkbox"/>                   | JHUBEI   | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)          |                      |
|                                            |          | TEL : 886-3-656-9065                                                                  | FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |          |                                                                                       |                      |
| <input type="checkbox"/>                   | Wen Shan | ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) |                      |
|                                            |          | TEL : 886-3-318-0787                                                                  | FAX : 886-3-318-0287 |
| Test site Designation No. TW1097 with FCC. |          |                                                                                       |                      |

| Test Condition | Test Site No. | Test Engineer | Test Environment     | Test Date               |
|----------------|---------------|---------------|----------------------|-------------------------|
| AC Conduction  | CO04-HY       | Edward Wang   | 21.4~22.5°C / 58~62% | 23/Mar/2020~18/Apr/2020 |
| RF Conducted   | TH06-HY       | Edward Wang   | 20.1~24.2°C / 57~63% | 23/Mar/2020~25/Mar/2020 |
| Radiated       | 03CH03-HY     | Jeff Lin      | 21.4~25.5°C / 51~61% | 22/Mar/2020~16/Apr/2020 |

## 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         | 120V   |

### 2.2 Test Channel Mode

| Test Software | DoS |
|---------------|-----|
|---------------|-----|

| Mode                         | Power Setting |
|------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -             |
| 2412MHz                      | 16            |
| 2437MHz                      | 15            |
| 2462MHz                      | 15            |
| 802.11g_Nss1,(6Mbps)_1TX     | -             |
| 2412MHz                      | 12            |
| 2417MHz                      | 13            |
| 2437MHz                      | 16            |
| 2457MHz                      | 14            |
| 2462MHz                      | 12            |
| 802.11n HT20_Nss1,(MCS0)_1TX | -             |
| 2412MHz                      | 13            |
| 2417MHz                      | 14            |
| 2437MHz                      | 16            |
| 2457MHz                      | 15            |
| 2462MHz                      | 13            |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                          |
|-----------------------------------------------------|----------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                        |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral |
| <b>Operating Mode</b>                               | CTX                                                      |
| 1                                                   | Adapter Mode                                             |
| 2                                                   | PoE Mode                                                 |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                          |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | DTS Bandwidth<br>Maximum Conducted Output Power<br>Power Spectral Density<br>Emissions in Non-restricted Frequency Bands |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                                                                                 |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                                                                     |                                                                                     |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Emissions in Restricted Frequency Bands                                                                                                                                                                                                             |                                                                                     |                                                                                       |
| <b>Test Condition</b>                               | 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. |                                                                                     |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| 1                                                   | Adapter Mode                                                                                                                                                                                                                                        |                                                                                     |                                                                                       |
| 2                                                   | PoE Mode                                                                                                                                                                                                                                            |                                                                                     |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | CTX                                                                                                                                                                                                                                                 |                                                                                     |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                                                                      | <b>Y Plane</b>                                                                      | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                                                                  |  |  |
| <b>Worst Planes of EUT</b>                          |                                                                                                                                                                                                                                                     |                                                                                     | V                                                                                     |

## 2.4 Accessories

| Accessories |            |                               |
|-------------|------------|-------------------------------|
| 4P4C Cable  | Power Cord | 4.0 meter, Non-shielded cable |

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

## 2.5 Support Equipment

| Support Equipment – AC Conduction |                 |                |                |        |        |
|-----------------------------------|-----------------|----------------|----------------|--------|--------|
| No.                               | Equipment       | Brand Name     | Model Name     | FCC ID | Remark |
| 1                                 | PoE             | CERIO          | POE-S48G2      | DoC    | Note 1 |
| 2                                 | Adapter for PoE | L.T.E          | LTE36ES-S5-1   | DoC    |        |
| 3                                 | AC Adapter      | Salom Electric | S30122-H7726-X | DoC    |        |

Note 1: Support equipment was provided by customer.

| Support Equipment – Radiated |                          |                |                |        |        |
|------------------------------|--------------------------|----------------|----------------|--------|--------|
| No.                          | Equipment                | Brand Name     | Model Name     | FCC ID | Remark |
| 1                            | PoE (Remote)             | CERIO          | POE-S48G2      | DoC    | Note 1 |
| 2                            | Adapter for PoE (Remote) | L.T.E          | LTE36ES-S5-1   | DoC    |        |
| 3                            | AC Adapter               | Salom Electric | S30122-H7726-X | DoC    |        |

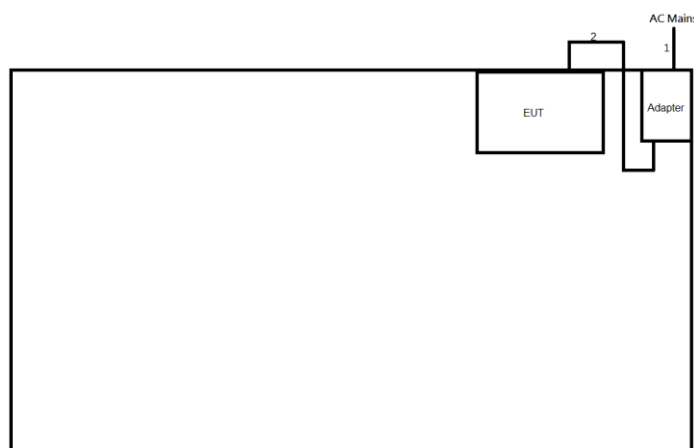
Note 1: Support equipment was provided by customer.

| Support Equipment – Conducted |                |            |            |        |        |
|-------------------------------|----------------|------------|------------|--------|--------|
| No.                           | Equipment      | Brand Name | Model Name | FCC ID | Remark |
| 1                             | Notebook       | DELL       | E5410      | DoC    | -      |
| 2                             | Adapter for NB | DELL       | HA65NM130  | DoC    | -      |
| 3                             | Fixture        | -          | -          | -      | Note 1 |

Note 1: Support equipment was provided by customer.

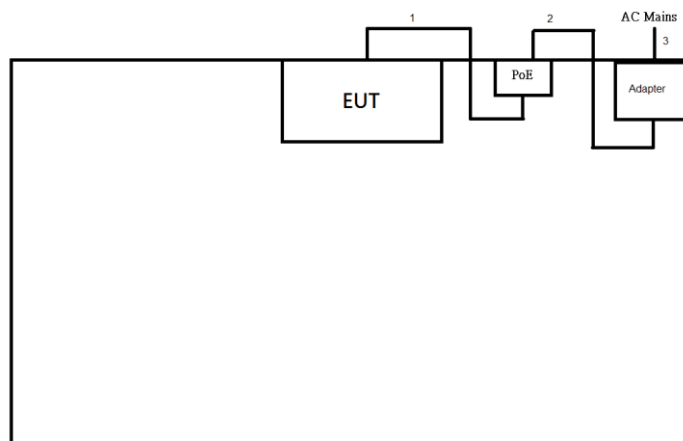
## 2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Adapter Mode)

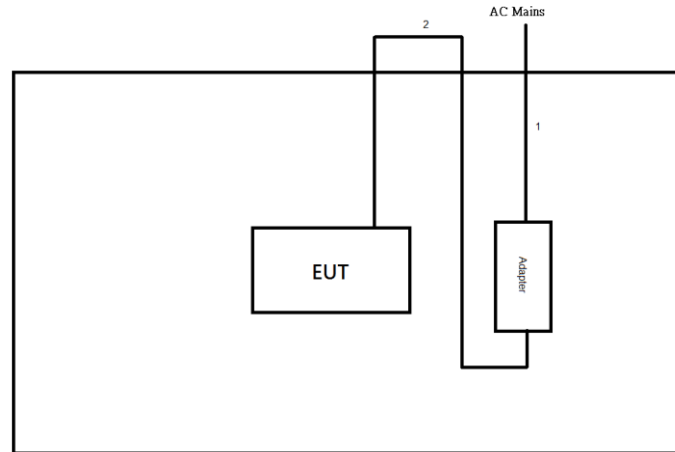


| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power Cable | No       | 1.5       | -      |
| 2    | RJ-11 Cable    | No       | 2.0       | -      |

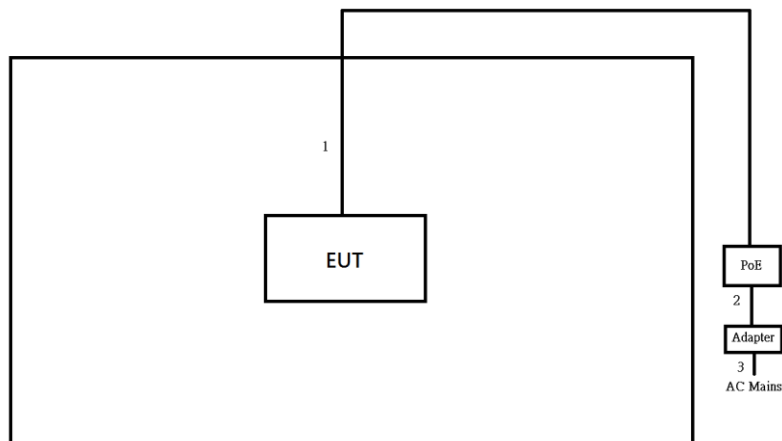
Test Setup Diagram – AC Line Conducted Emission Test (PoE Mode)



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | RJ45 cable     | No       | 1.0       | -      |
| 2    | DC Power cable | No       | 1.8       | -      |
| 3    | AC Power cable | No       | 1.8       | -      |

**Test Setup Diagram - Radiated Test (Adapter Mode)**


| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power Cable | No       | 1.5       | -      |
| 2    | RJ-11 Cable    | No       | 2.0       | -      |

**Test Setup Diagram - Radiated Test (PoE Mode)**


| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | RJ45 cable     | No       | 1.0       | -      |
| 2    | DC Power cable | No       | 1.8       | -      |
| 3    | AC Power cable | No       | 1.8       | -      |

### 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. |            |           |

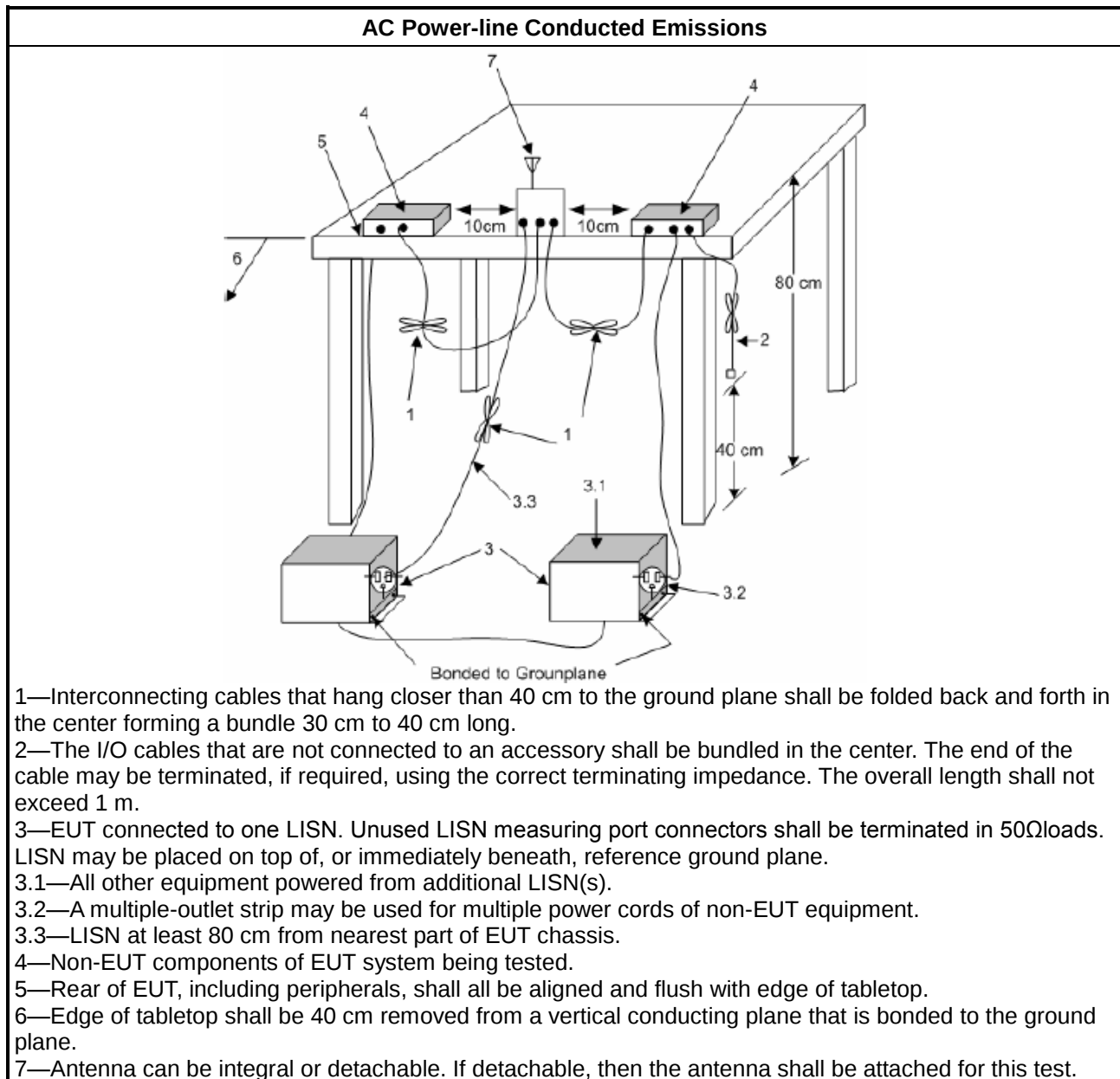
##### 3.1.2 Measuring Instruments

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 Test Setup



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

Refer as Appendix A

## 3.2 DTS Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                                 |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Systems using digital modulation techniques:</b> |                                |
| ▪                                                   | 6 dB bandwidth $\geq$ 500 kHz. |

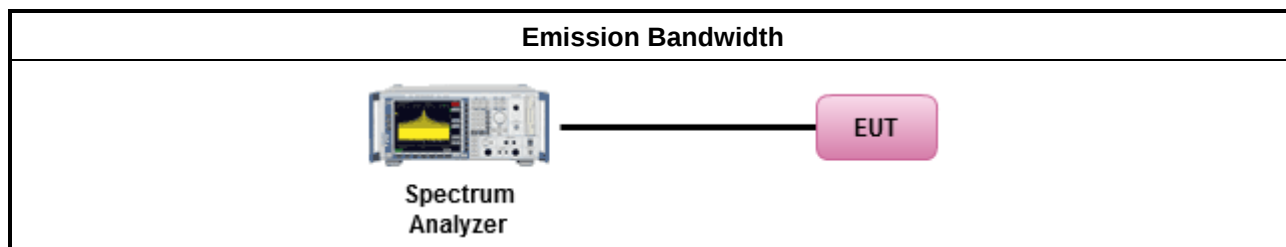
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

| Test Method                         |                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------|
| ▪                                   | For the emission bandwidth shall be measured using one of the options below:     |
| <input checked="" type="checkbox"/> | Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement. |
| <input type="checkbox"/>            | Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.                     |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.               |

### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                                                                                                              |   |                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------|
|                                                                                                                                                                   | ▪ | If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)                                           |
|                                                                                                                                                                   | ▪ | Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm     |
|                                                                                                                                                                   | ▪ | Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm        |
|                                                                                                                                                                   | ▪ | Smart antenna system (SAS):                                                                        |
|                                                                                                                                                                   | - | Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                         |
|                                                                                                                                                                   | - | Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm                        |
|                                                                                                                                                                   | - | Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm |
| e.i.r.p. Power Limit:                                                                                                                                             |   |                                                                                                    |
|                                                                                                                                                                   | ▪ | 2400-2483.5 MHz Band                                                                               |
|                                                                                                                                                                   | ▪ | Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)                                    |
|                                                                                                                                                                   | ▪ | Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm               |
|                                                                                                                                                                   | ▪ | Smart antenna system (SAS)                                                                         |
|                                                                                                                                                                   | - | Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm                                  |
|                                                                                                                                                                   | - | Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm                                 |
|                                                                                                                                                                   | - | Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm           |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi. |   |                                                                                                    |

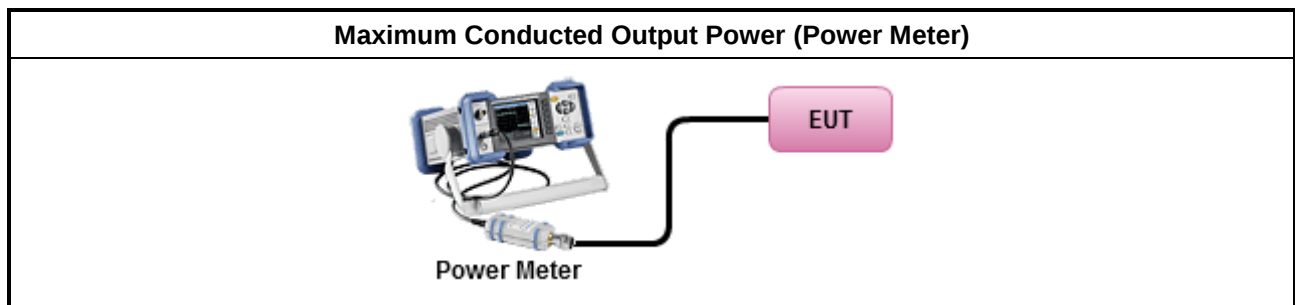
#### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                        |                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Peak Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                              |                                                                                             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method. |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.             |
| <ul style="list-style-type: none"> <li>Maximum Average Conducted Output Power</li> </ul>                                                                                                                                                                                                                                                                           |                                                                                             |
| <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           | Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.    |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                | Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.          |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>                                                                                                                                                                                                                                                                                       |                                                                                             |
| <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul> |                                                                                             |
| <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math> (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>                              |                                                                                             |

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit |                                                |
|------------------------------|------------------------------------------------|
| ▪                            | Power Spectral Density (PSD) $\leq 8$ dBm/3kHz |

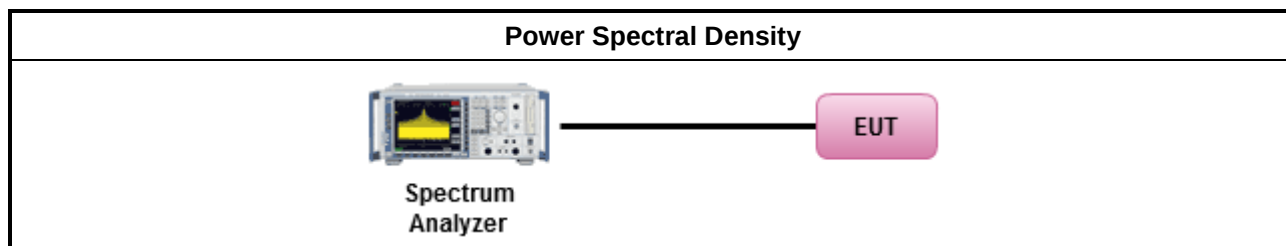
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▪                                   | Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ▪                                   | For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ▪                                   | If The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ▪                                   | Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| RF output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Limit (dB) |
| Peak output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20         |
| Average output power procedure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30         |
| <p>Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level.</p> <p>Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.</p> |            |

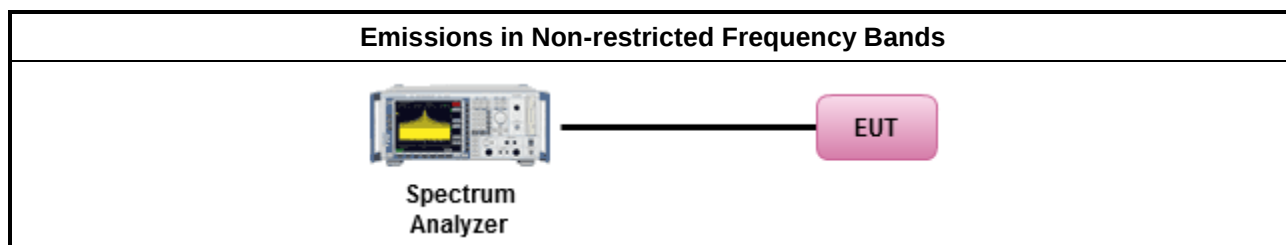
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

| Test Method                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul> |

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

## 3.6 Emissions in Restricted Frequency Bands

### 3.6.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, 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).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

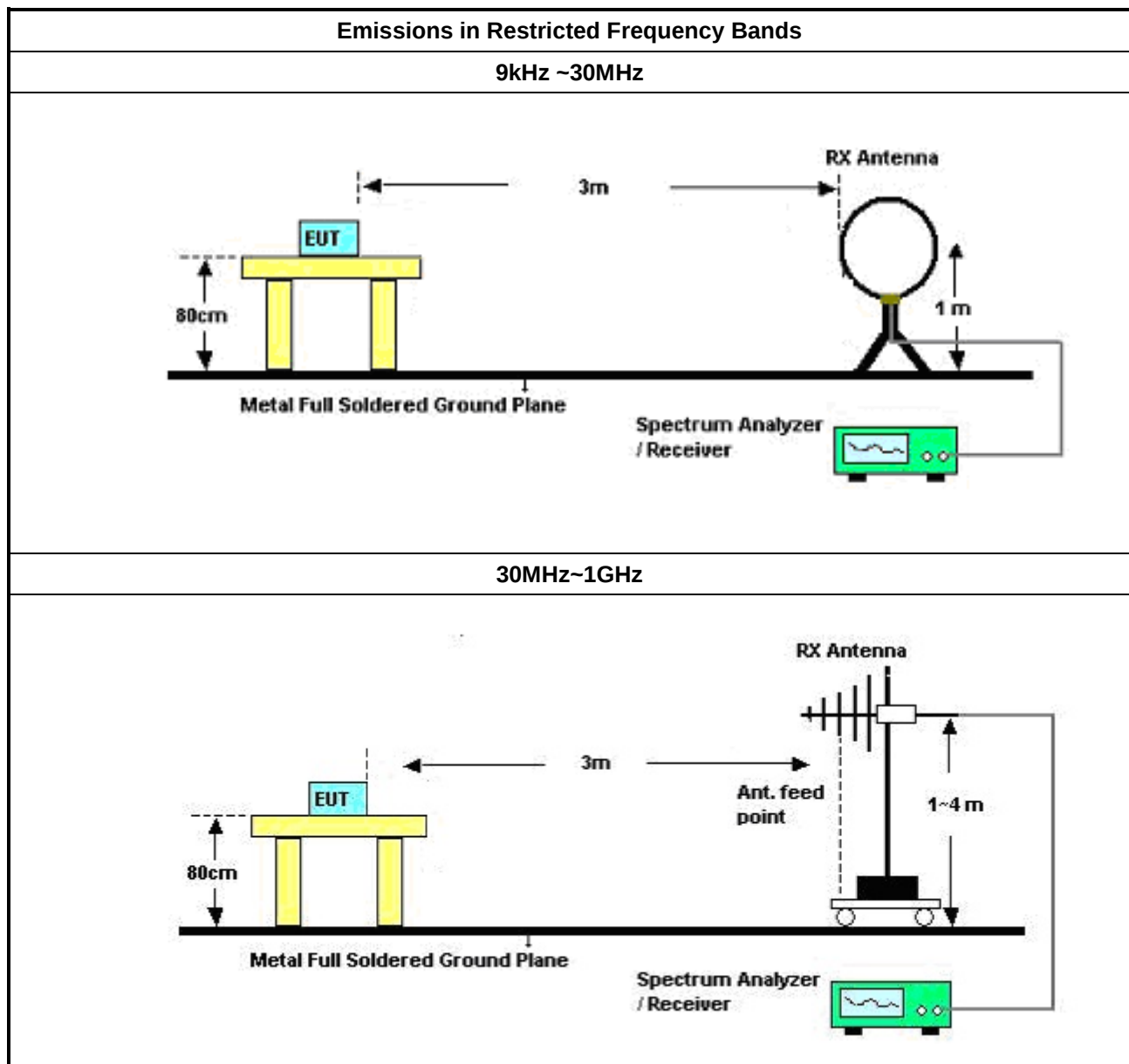
### 3.6.2 Measuring Instruments

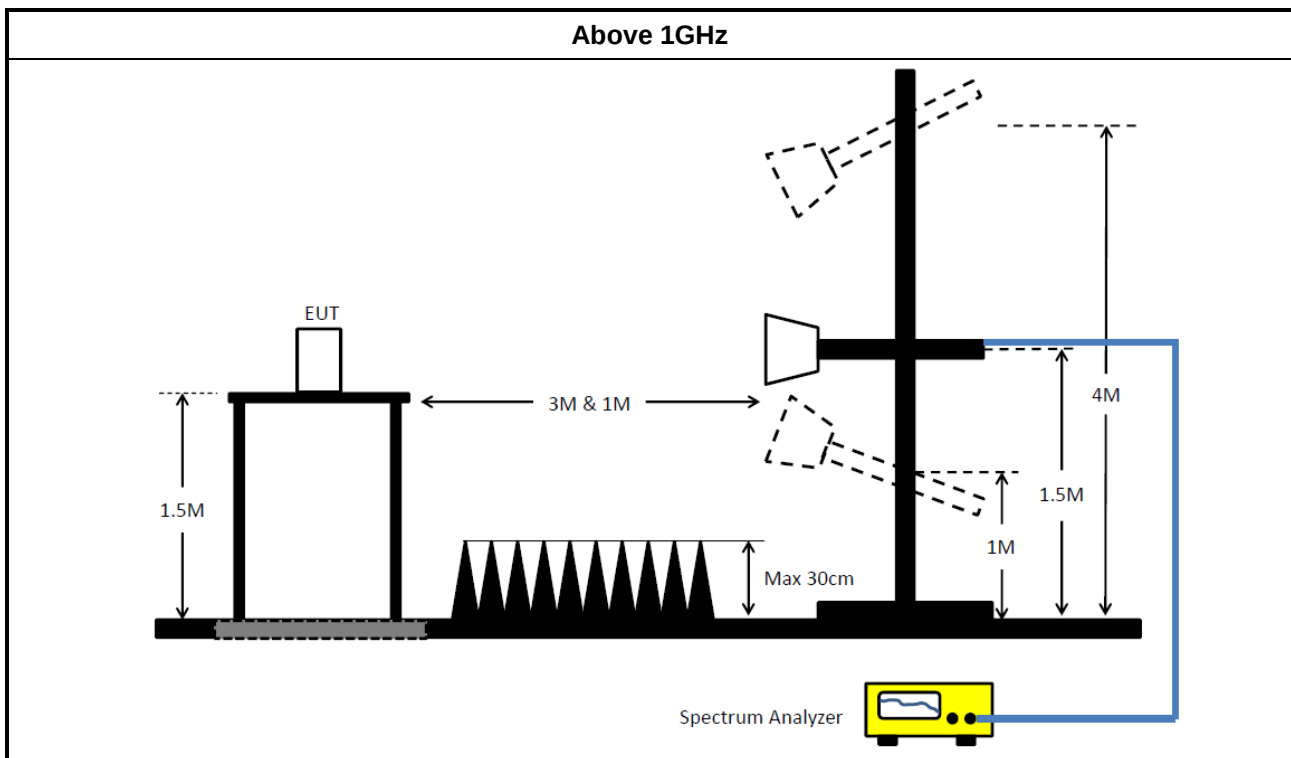
Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

| Test Method                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                        |                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul> |                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                   |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>                                                                                                                         |
| <ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>                                                                                  |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul> |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.</li> </ul>                                                                             |
| <ul style="list-style-type: none"> <li>Use the following spectrum analyzer settings:</li> </ul>                                                                                                                             |                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>                                                                                          |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement.<br/>For average measurement, refer as 1.1.4.</li> </ul>                                                                                    |
| <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> </ul>          |
|                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>                                                                             |

### 3.6.4 Test Setup





### 3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

### 3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

| Instrument                           | Manufacturer | Model No.   | Serial No. | Spec.               | Calibration Date | Calibration Due Date |
|--------------------------------------|--------------|-------------|------------|---------------------|------------------|----------------------|
| EMC Receiver                         | R&S          | ESR3        | 102051     | 9kHz ~ 3.6GHz       | 28/May/2019      | 27/May/2020          |
| LISN                                 | R&S          | ENV216      | 101295     | 9kHz ~ 30MHz        | 04/Nov/2019      | 05/Nov/2020          |
| RF Cable-CON                         | MTJ          | RG142       | CB002-CO   | 9kHz ~ 200MHz       | 12/Sep/2019      | 11/Sep/2020          |
| AC POWER                             | APC          | AFC-11005G  | F310050055 | 47Hz~63Hz<br>5~300V | NCR              | NCR                  |
| Impuls<br>Begrenzer<br>Pulse Limiter | SCHWARZBECK  | VTSD 9561-F | 9561-F041  | 9 kHz ~ 30 MHz      | 24/Sep/2019      | 23/Sep/2020          |

NCR: Non-Calibration Require

### Instrument for Radiated Test

| Instrument                             | Manufacturer       | Model No.                 | Serial No.                 | Spec.              | Calibration Date | Calibration Due Date |
|----------------------------------------|--------------------|---------------------------|----------------------------|--------------------|------------------|----------------------|
| 3m Semi<br>Anechoic<br>Chamber         | SIDT FRANKONIA     | SAC-3M                    | 03CH03-HY                  | 30MHz ~ 1GHz<br>3m | 30/Aug/2019      | 29/Aug/2020          |
| 3m Semi<br>Anechoic<br>Chamber         | SIDT FRANKONIA     | SAC-3M                    | 03CH03-HY                  | 1GHz ~ 18GHz<br>3m | 30/Aug/2019      | 29/Aug/2020          |
| Amplifier                              | HP                 | 8447D                     | 2944A08033                 | 10kHz ~ 1.3GHz     | 14/Apr/2020      | 13/Apr/2021          |
| Amplifier                              | HP                 | 8447D                     | 2944A08033                 | 10kHz ~ 1.3GHz     | 22/Apr/2019      | 21/Apr/2020          |
| EMI Test<br>Receiver                   | R&S                | ESR3                      | 102051                     | 9kHz ~ 3.6GHz      | 28/May/2019      | 27/May/2020          |
| Bilog Antenna &<br>5dB Attenuator      | SCHAFFNER /<br>MTJ | CBL 6112D /<br>MTJ6102-05 | 2723 / 2                   | 30MHz ~ 1GHz       | 28/Feb/2020      | 27/Feb/2021          |
| Microwave<br>System<br>Preamplifier    | KEYSIGHT           | 83017A                    | MY53270196                 | 1GHz ~ 26.5GHz     | 09/Sep/2019      | 08/Sep/2020          |
| Signal Analyzer                        | R&S                | FSV40                     | 101500                     | 10Hz ~ 40GHz       | 15/Aug/2019      | 14/Aug/2020          |
| RF Cable-R03m                          | Jye Bao            | RG142                     | CB021                      | 9kHz ~ 1GHz        | 18/Mar/2020      | 17/Mar/2021          |
| RF CABLE<br>5+6m                       | HUBER+SUHNER       | SUOFLEX 104               | SN 805801/4+SN<br>804300/4 | 1GHz ~ 40GHz       | 18/Mar/2020      | 17/Mar/2021          |
| Broadband Horn<br>Antenna              | SCHWARZBECK        | BBHA 9170                 | BBHA9170614                | 18GHz~40GHz        | 22/May/2019      | 21/May/2020          |
| Double Ridged<br>Guide Horn<br>Antenna | SCHWARZBECK        | BBHA 9120 D               | BBHA 9120 D<br>1543        | 1GHz ~ 18GHz       | 02/Jun/2019      | 01/Jun/2020          |
| Preamplifier                           | MITEQ              | TTA1840-35-H<br>G         | 1864481                    | 18GHz ~ 40GHz      | 10/Mar/2020      | 09/Mar/2021          |
| Loop Antenna                           | TESEQ              | HLA 6120                  | 31244                      | 9kHz ~ 30MHz       | 16/Mar/2020      | 15/Mar/2021          |

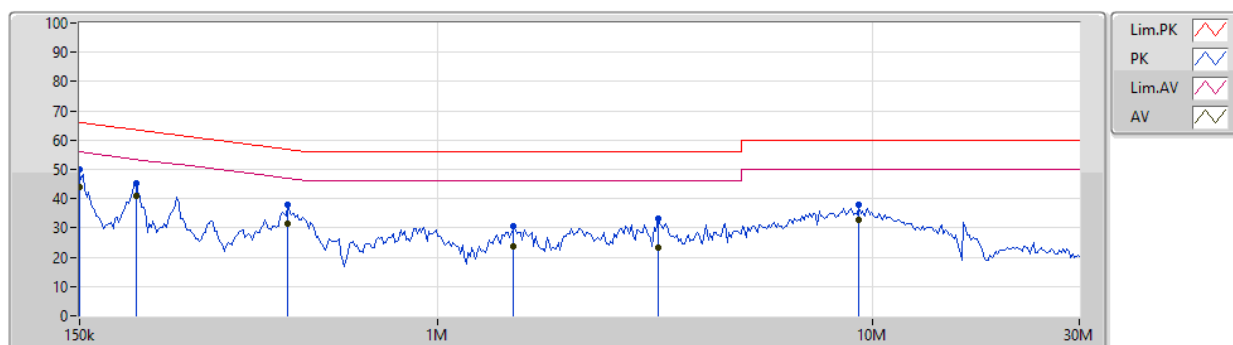
**Instrument for Conducted Test**

| Instrument               | Manufacturer | Model No. | Serial No. | Spec.          | Calibration Date | Calibration Due Date |
|--------------------------|--------------|-----------|------------|----------------|------------------|----------------------|
| Spectrum Analyzer        | R&S          | FSV 40    | 101029     | 10kHz ~ 40GHz  | 01/Oct/2019      | 30/Sep/2020          |
| Pulse Power 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          |
| SMB100A Signal Generator | R&S          | SMB100A03 | 181147     | 100kHz~40GHz   | 12/Nov/2018      | 10/Nov/2020          |

## AC Power-line Conducted Emissions Result

|                    |              |             |         |
|--------------------|--------------|-------------|---------|
| Operating Mode     | 1            | Power Phase | Neutral |
| Operating Function | Adapter Mode |             |         |

23/03/2020

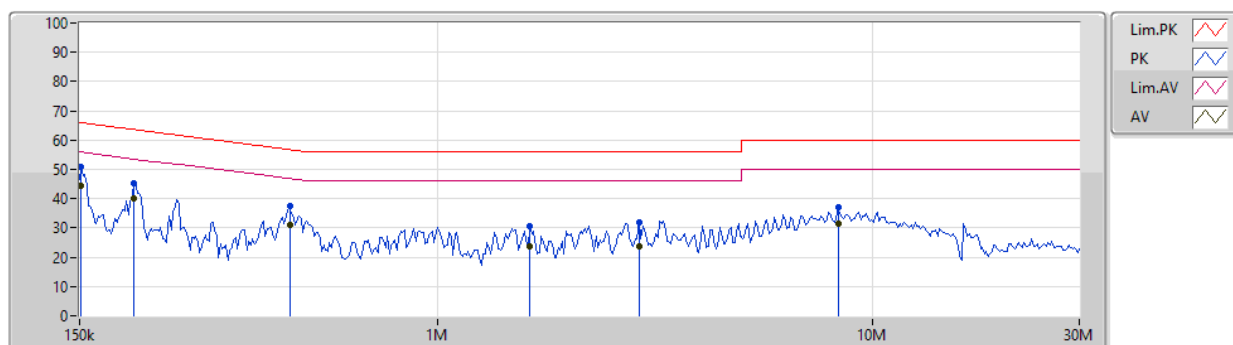


| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 150k         | 50.03           | 66.00           | -15.97         | 19.63          | Neutral   | -       | 30.40         | 9.65         | 0.11       | 9.87       |  |  |  |
| AV   | 150k         | 44.13           | 56.00           | -11.87         | 19.63          | Neutral   | "Worst" | 24.50         | 9.65         | 0.11       | 9.87       |  |  |  |
| QP   | 202.177k     | 45.31           | 63.51           | -18.20         | 19.62          | Neutral   | -       | 25.69         | 9.64         | 0.11       | 9.87       |  |  |  |
| AV   | 202.177k     | 40.99           | 53.51           | -12.52         | 19.62          | Neutral   | -       | 21.37         | 9.64         | 0.11       | 9.87       |  |  |  |
| QP   | 452.651k     | 38.06           | 56.82           | -18.76         | 19.63          | Neutral   | -       | 18.43         | 9.63         | 0.13       | 9.87       |  |  |  |
| AV   | 452.651k     | 31.63           | 46.82           | -15.19         | 19.63          | Neutral   | -       | 12.00         | 9.63         | 0.13       | 9.87       |  |  |  |
| QP   | 1.494M       | 30.70           | 56.00           | -25.30         | 19.64          | Neutral   | -       | 11.06         | 9.64         | 0.13       | 9.87       |  |  |  |
| AV   | 1.494M       | 23.63           | 46.00           | -22.37         | 19.64          | Neutral   | -       | 3.99          | 9.64         | 0.13       | 9.87       |  |  |  |
| QP   | 3.214M       | 33.11           | 56.00           | -22.89         | 19.72          | Neutral   | -       | 13.39         | 9.66         | 0.18       | 9.88       |  |  |  |
| AV   | 3.214M       | 23.45           | 46.00           | -22.55         | 19.72          | Neutral   | -       | 3.73          | 9.66         | 0.18       | 9.88       |  |  |  |
| QP   | 9.321M       | 38.01           | 60.00           | -21.99         | 19.84          | Neutral   | -       | 18.17         | 9.70         | 0.26       | 9.88       |  |  |  |
| AV   | 9.321M       | 32.71           | 50.00           | -17.29         | 19.84          | Neutral   | -       | 12.87         | 9.70         | 0.26       | 9.88       |  |  |  |

## AC Power-line Conducted Emissions Result

|                    |              |             |      |
|--------------------|--------------|-------------|------|
| Operating Mode     | 1            | Power Phase | Line |
| Operating Function | Adapter Mode |             |      |

23/03/2020

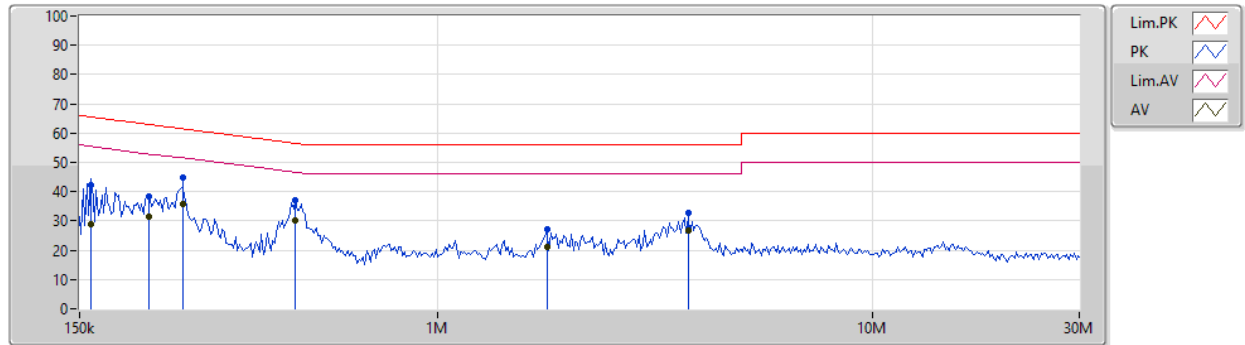


| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 151.5k    | 50.99        | 65.92        | -14.93      | 19.64       | Line      | -       | 31.35      | 9.66      | 0.11    | 9.87    |  |  |  |
| AV   | 151.5k    | 44.37        | 55.92        | -11.55      | 19.64       | Line      | -       | 24.73      | 9.66      | 0.11    | 9.87    |  |  |  |
| QP   | 200.176k  | 45.47        | 63.61        | -18.14      | 19.63       | Line      | -       | 25.84      | 9.65      | 0.11    | 9.87    |  |  |  |
| AV   | 200.176k  | 40.21        | 53.61        | -13.40      | 19.63       | Line      | -       | 20.58      | 9.65      | 0.11    | 9.87    |  |  |  |
| QP   | 457.178k  | 37.43        | 56.75        | -19.32      | 19.64       | Line      | -       | 17.79      | 9.64      | 0.13    | 9.87    |  |  |  |
| AV   | 457.178k  | 30.82        | 46.75        | -15.93      | 19.64       | Line      | -       | 11.18      | 9.64      | 0.13    | 9.87    |  |  |  |
| QP   | 1.634M    | 30.77        | 56.00        | -25.23      | 19.66       | Line      | -       | 11.11      | 9.65      | 0.14    | 9.87    |  |  |  |
| AV   | 1.634M    | 23.92        | 46.00        | -22.08      | 19.66       | Line      | -       | 4.26       | 9.65      | 0.14    | 9.87    |  |  |  |
| QP   | 2.91M     | 31.70        | 56.00        | -24.30      | 19.71       | Line      | -       | 11.99      | 9.66      | 0.17    | 9.88    |  |  |  |
| AV   | 2.91M     | 23.70        | 46.00        | -22.30      | 19.71       | Line      | -       | 3.99       | 9.66      | 0.17    | 9.88    |  |  |  |
| QP   | 8.355M    | 37.01        | 60.00        | -22.99      | 19.81       | Line      | -       | 17.20      | 9.68      | 0.25    | 9.88    |  |  |  |
| AV   | 8.355M    | 31.32        | 50.00        | -18.68      | 19.81       | Line      | -       | 11.51      | 9.68      | 0.25    | 9.88    |  |  |  |

## AC Power-line Conducted Emissions Result

|                    |          |             |         |
|--------------------|----------|-------------|---------|
| Operating Mode     | 2        | Power Phase | Neutral |
| Operating Function | PoE Mode |             |         |

18/04/2020

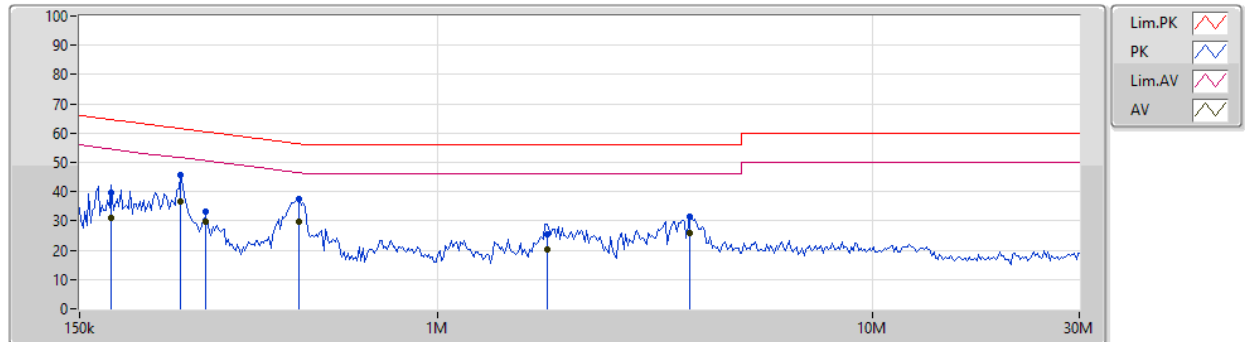


| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 159.228k  | 42.44        | 65.50        | -23.06      | 19.63       | Neutral   | -       | 22.81      | 9.65      | 0.11    | 9.87    |  |  |  |
| AV   | 159.228k  | 29.04        | 55.50        | -26.46      | 19.63       | Neutral   | -       | 9.41       | 9.65      | 0.11    | 9.87    |  |  |  |
| QP   | 216.761k  | 38.36        | 62.94        | -24.58      | 19.62       | Neutral   | -       | 18.74      | 9.64      | 0.11    | 9.87    |  |  |  |
| AV   | 216.761k  | 31.67        | 52.94        | -21.27      | 19.62       | Neutral   | -       | 12.05      | 9.64      | 0.11    | 9.87    |  |  |  |
| QP   | 259.279k  | 44.95        | 61.45        | -16.50      | 19.63       | Neutral   | -       | 25.32      | 9.64      | 0.12    | 9.87    |  |  |  |
| AV   | 259.279k  | 35.61        | 51.45        | -15.84      | 19.63       | Neutral   | "Worst" | 15.98      | 9.64      | 0.12    | 9.87    |  |  |  |
| QP   | 471.031k  | 37.13        | 56.50        | -19.37      | 19.63       | Neutral   | -       | 17.50      | 9.63      | 0.13    | 9.87    |  |  |  |
| AV   | 471.031k  | 29.99        | 46.50        | -16.51      | 19.63       | Neutral   | -       | 10.36      | 9.63      | 0.13    | 9.87    |  |  |  |
| QP   | 1.787M    | 27.23        | 56.00        | -28.77      | 19.66       | Neutral   | -       | 7.57       | 9.65      | 0.14    | 9.87    |  |  |  |
| AV   | 1.787M    | 20.91        | 46.00        | -25.09      | 19.66       | Neutral   | -       | 1.25       | 9.65      | 0.14    | 9.87    |  |  |  |
| QP   | 3.769M    | 32.68        | 56.00        | -23.32      | 19.72       | Neutral   | -       | 12.96      | 9.66      | 0.18    | 9.88    |  |  |  |
| AV   | 3.769M    | 26.87        | 46.00        | -19.13      | 19.72       | Neutral   | -       | 7.15       | 9.66      | 0.18    | 9.88    |  |  |  |

## AC Power-line Conducted Emissions Result

|                    |          |             |      |
|--------------------|----------|-------------|------|
| Operating Mode     | 2        | Power Phase | Line |
| Operating Function | PoE Mode |             |      |

18/04/2020



| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 177.646k  | 39.78        | 64.59        | -24.81      | 19.63       | Line      | -       | 20.15      | 9.65      | 0.11    | 9.87    |  |  |  |
| AV   | 177.646k  | 31.02        | 54.59        | -23.57      | 19.63       | Line      | -       | 11.39      | 9.65      | 0.11    | 9.87    |  |  |  |
| QP   | 256.712k  | 45.72        | 61.54        | -15.82      | 19.64       | Line      | -       | 26.08      | 9.65      | 0.12    | 9.87    |  |  |  |
| AV   | 256.712k  | 36.77        | 51.54        | -14.77      | 19.64       | Line      | "Worst" | 17.13      | 9.65      | 0.12    | 9.87    |  |  |  |
| QP   | 292.162k  | 32.98        | 60.46        | -27.48      | 19.63       | Line      | -       | 13.35      | 9.64      | 0.12    | 9.87    |  |  |  |
| AV   | 292.162k  | 29.55        | 50.46        | -20.91      | 19.63       | Line      | -       | 9.92       | 9.64      | 0.12    | 9.87    |  |  |  |
| QP   | 480.498k  | 37.54        | 56.33        | -18.79      | 19.64       | Line      | -       | 17.90      | 9.64      | 0.13    | 9.87    |  |  |  |
| AV   | 480.498k  | 29.92        | 46.33        | -16.41      | 19.64       | Line      | -       | 10.28      | 9.64      | 0.13    | 9.87    |  |  |  |
| QP   | 1.787M    | 25.34        | 56.00        | -30.66      | 19.66       | Line      | -       | 5.68       | 9.65      | 0.14    | 9.87    |  |  |  |
| AV   | 1.787M    | 20.39        | 46.00        | -25.61      | 19.66       | Line      | -       | 0.73       | 9.65      | 0.14    | 9.87    |  |  |  |
| QP   | 3.807M    | 31.32        | 56.00        | -24.68      | 19.72       | Line      | -       | 11.60      | 9.66      | 0.18    | 9.88    |  |  |  |
| AV   | 3.807M    | 25.66        | 46.00        | -20.34      | 19.72       | Line      | -       | 5.94       | 9.66      | 0.18    | 9.88    |  |  |  |

**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                | -                | -               | -        | -                | -               |
| 802.11b_Nss1,(1Mbps)_1TX     | 7.55M            | 12.019M         | 12M0G1D  | 7M               | 11.694M         |
| 802.11g_Nss1,(6Mbps)_1TX     | 16.3M            | 16.842M         | 16M8D1D  | 16.25M           | 16.517M         |
| 802.11n HT20_Nss1,(MCS0)_1TX | 17.05M           | 17.916M         | 17M9D1D  | 16.525M          | 17.691M         |

**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;

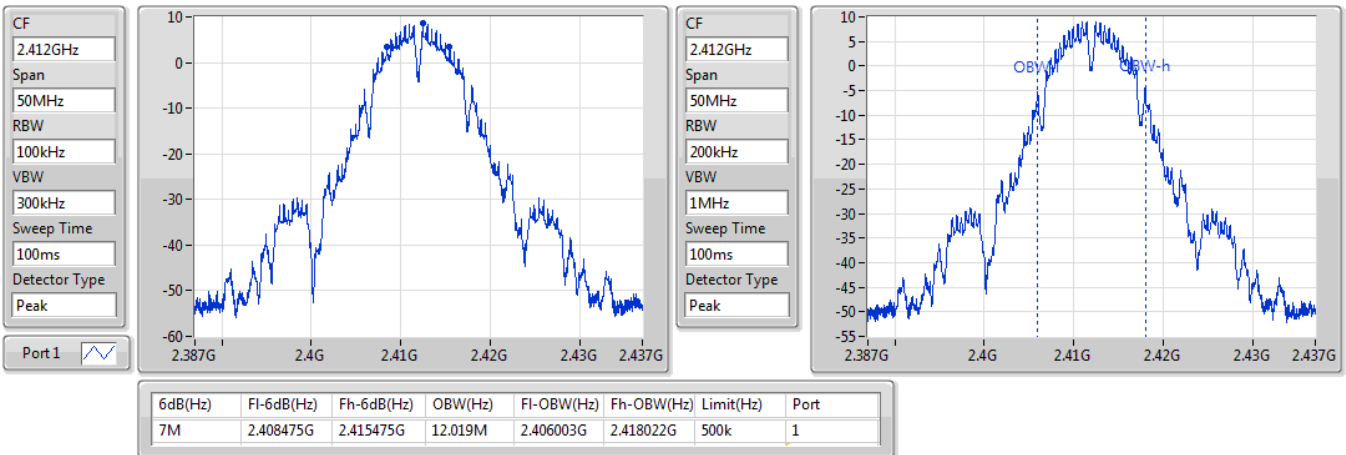
**Result**

| Mode                         | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) |
|------------------------------|--------|---------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -             | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 7M                  | 12.019M            |
| 2437MHz                      | Pass   | 500k          | 7.05M               | 11.694M            |
| 2462MHz                      | Pass   | 500k          | 7.55M               | 11.744M            |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -             | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 16.3M               | 16.617M            |
| 2437MHz                      | Pass   | 500k          | 16.275M             | 16.842M            |
| 2462MHz                      | Pass   | 500k          | 16.25M              | 16.517M            |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -             | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 17.05M              | 17.766M            |
| 2437MHz                      | Pass   | 500k          | 16.9M               | 17.916M            |
| 2462MHz                      | Pass   | 500k          | 16.525M             | 17.691M            |

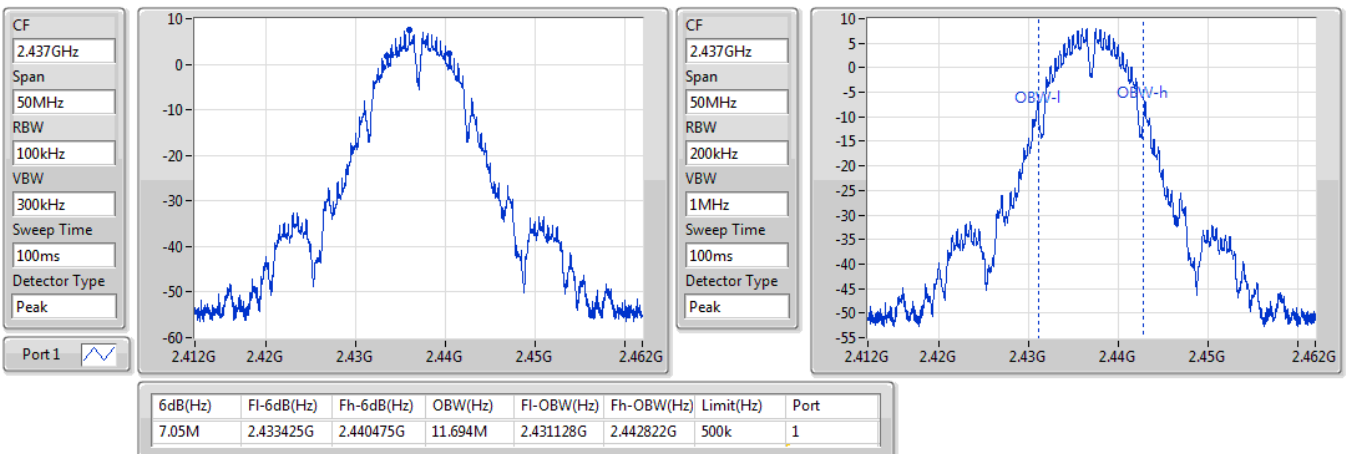
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2412MHz**

23/03/2020


**802.11b\_Nss1,(1Mbps)\_1TX**
**EBW**
**2437MHz**

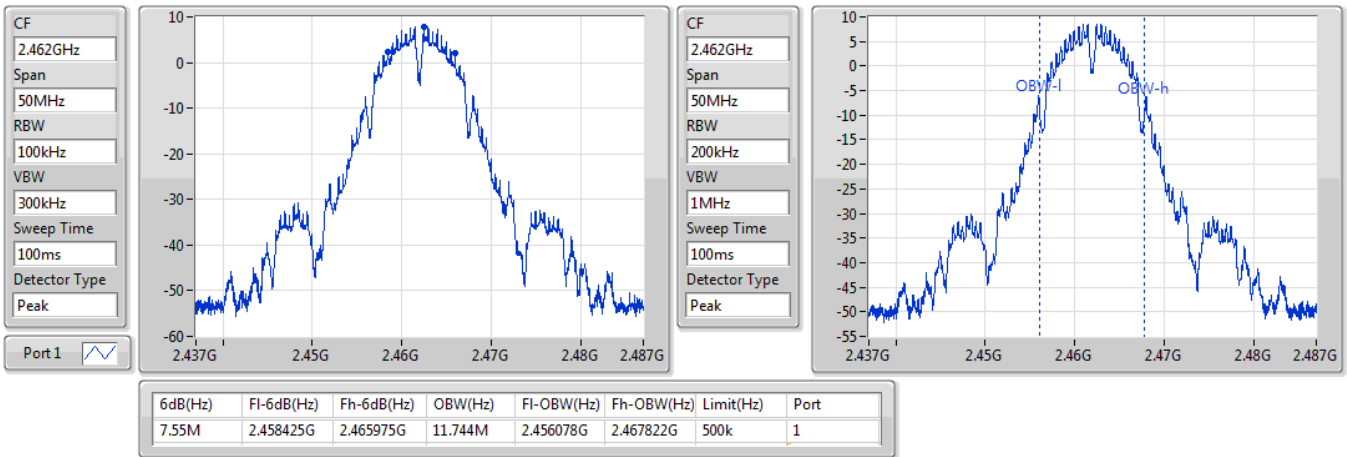
23/03/2020



## 802.11b\_Nss1,(1Mbps)\_1TX

**EBW**
**2462MHz**

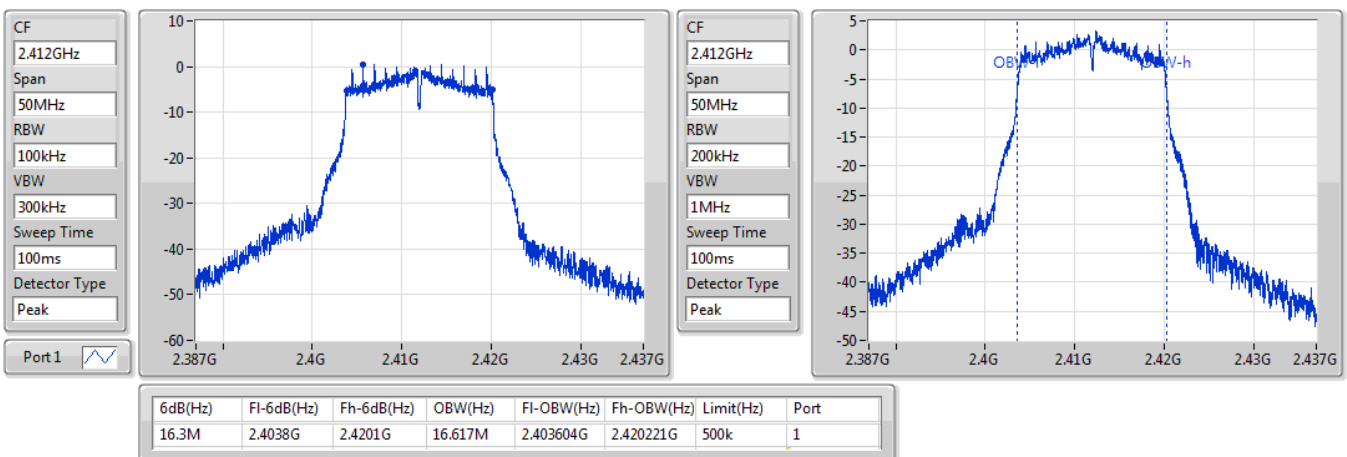
23/03/2020



## 802.11g\_Nss1,(6Mbps)\_1TX

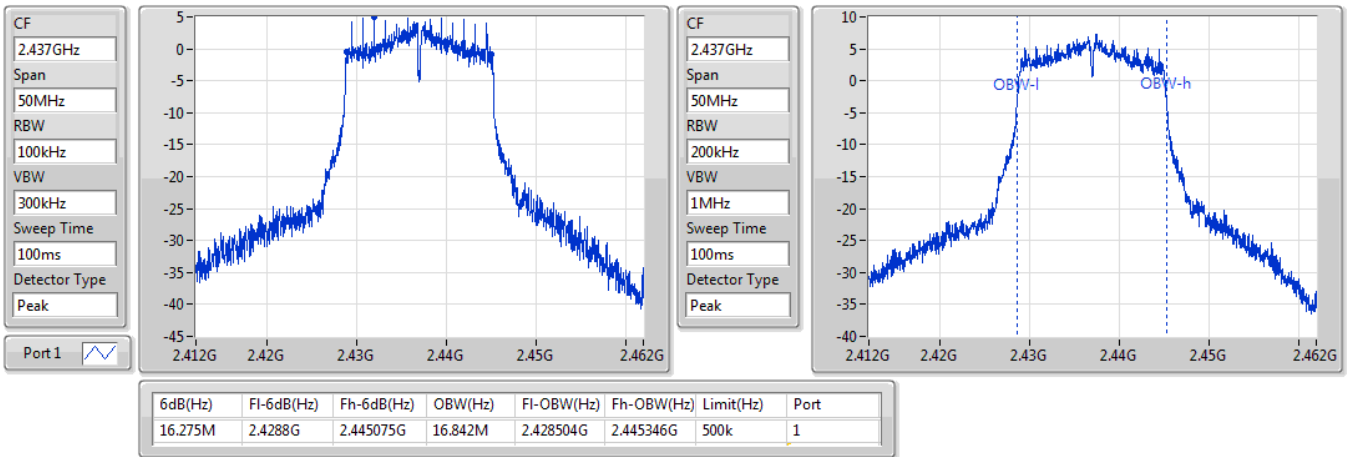
**EBW**
**2412MHz**

23/03/2020

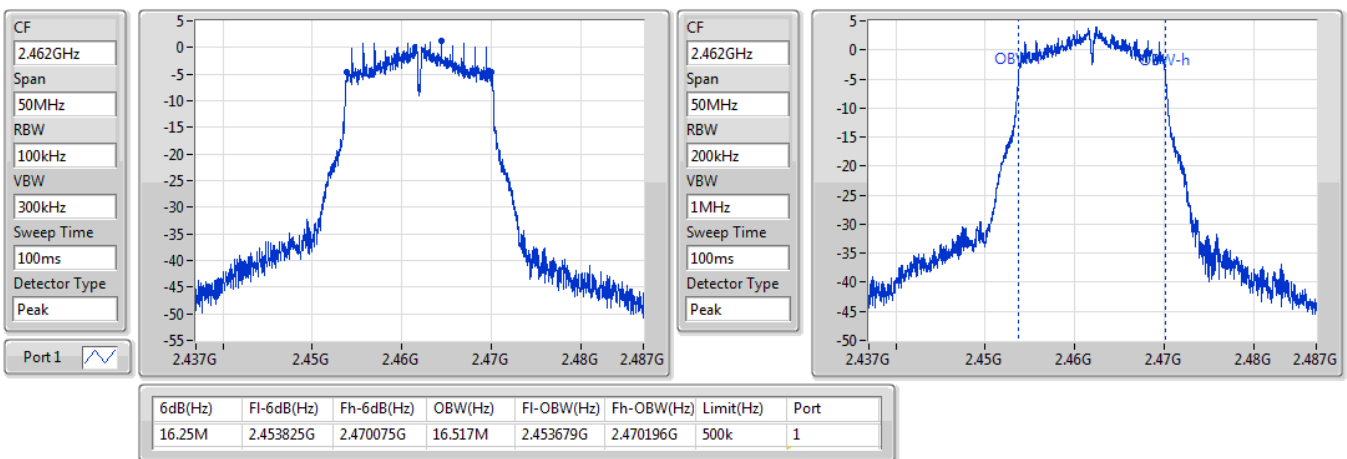


**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2437MHz**

25/03/2020

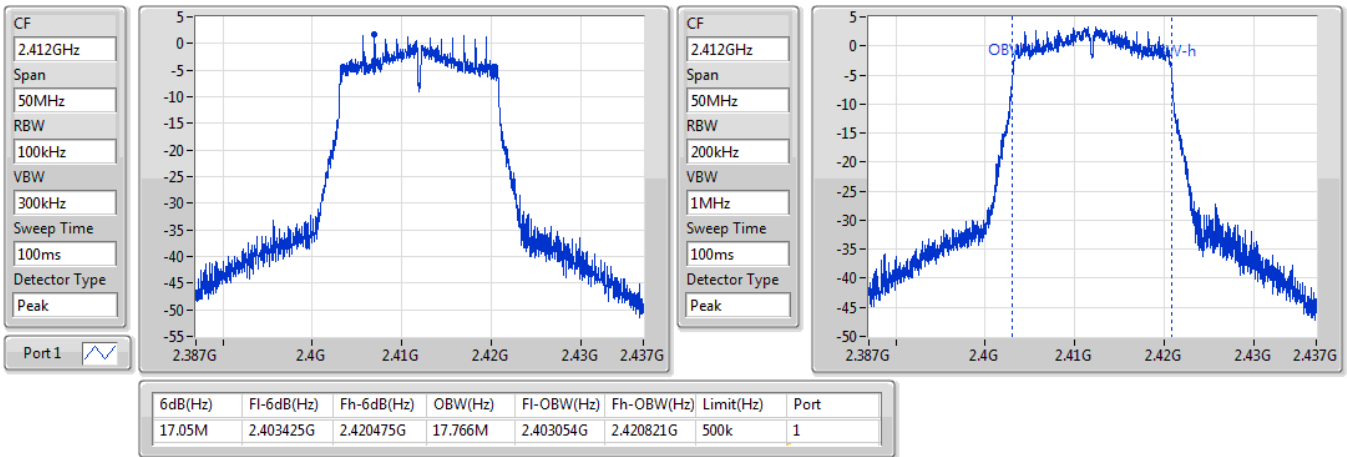

**802.11g\_Nss1,(6Mbps)\_1TX**
**EBW**
**2462MHz**

23/03/2020

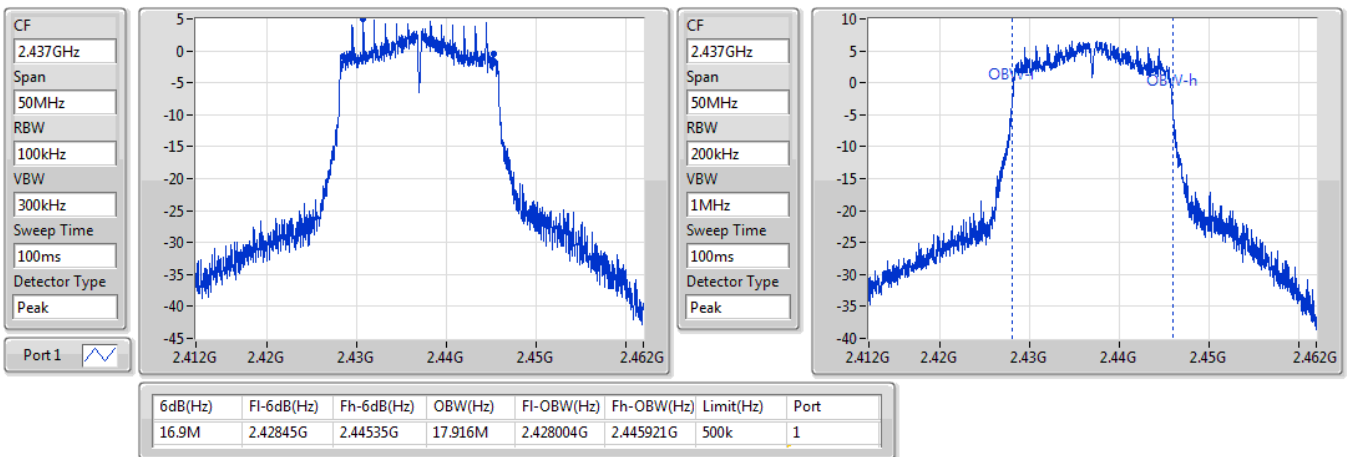


**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**2412MHz**

23/03/2020


**802.11n HT20\_Nss1,(MCS0)\_1TX**
**EBW**
**2437MHz**

25/03/2020

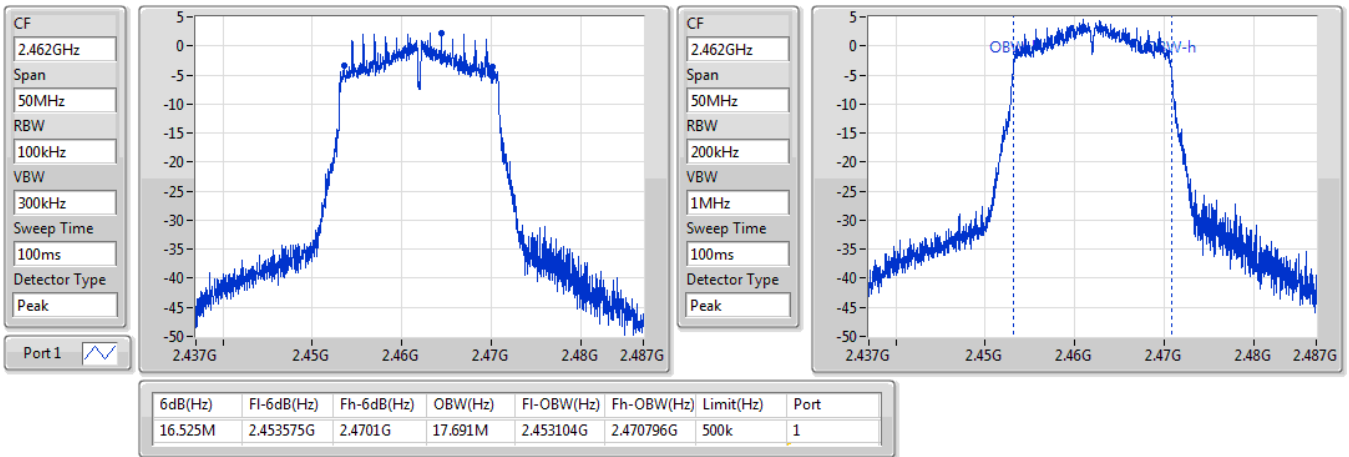


## 802.11n HT20\_Nss1,(MCS0)\_1TX

EBW

2462MHz

23/03/2020





**Summary**

| Mode                         | Total Power<br>(dBm) | Total Power<br>(W) |
|------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_1TX     | 17.42                | 0.05521            |
| 802.11g_Nss1,(6Mbps)_1TX     | 17.39                | 0.05483            |
| 802.11n HT20_Nss1,(MCS0)_1TX | 16.95                | 0.04955            |

## Result

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|------------------------------|--------|-------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -           | -               | -                    | -                    |
| 2412MHz                      | Pass   | 3.37        | 17.42           | 17.42                | 30.00                |
| 2437MHz                      | Pass   | 3.37        | 16.67           | 16.67                | 30.00                |
| 2462MHz                      | Pass   | 3.37        | 16.92           | 16.92                | 30.00                |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -           | -               | -                    | -                    |
| 2412MHz                      | Pass   | 3.37        | 13.01           | 13.01                | 30.00                |
| 2417MHz                      | Pass   | 3.37        | 14.33           | 14.33                | 30.00                |
| 2437MHz                      | Pass   | 3.37        | 17.39           | 17.39                | 30.00                |
| 2457MHz                      | Pass   | 3.37        | 15.84           | 15.84                | 30.00                |
| 2462MHz                      | Pass   | 3.37        | 13.66           | 13.66                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -           | -               | -                    | -                    |
| 2412MHz                      | Pass   | 3.37        | 13.57           | 13.57                | 30.00                |
| 2417MHz                      | Pass   | 3.37        | 14.74           | 14.74                | 30.00                |
| 2437MHz                      | Pass   | 3.37        | 16.95           | 16.95                | 30.00                |
| 2457MHz                      | Pass   | 3.37        | 16.22           | 16.22                | 30.00                |
| 2462MHz                      | Pass   | 3.37        | 14.42           | 14.42                | 30.00                |

**DG** = Directional Gain; **Port X** = Port X output power

**Summary**

| Mode                         | PD<br>(dBm/RBW) |
|------------------------------|-----------------|
| 2.4-2.4835GHz                | -               |
| 802.11b_Nss1,(1Mbps)_1TX     | -5.45           |
| 802.11g_Nss1,(6Mbps)_1TX     | -6.78           |
| 802.11n HT20_Nss1,(MCS0)_1TX | -6.64           |

**Result**

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|------------------------------|--------|-------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -           | -                   | -               | -                     |
| 2412MHz                      | Pass   | 3.37        | -5.45               | -5.45           | 8.00                  |
| 2437MHz                      | Pass   | 3.37        | -6.84               | -6.84           | 8.00                  |
| 2462MHz                      | Pass   | 3.37        | -6.94               | -6.94           | 8.00                  |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -           | -                   | -               | -                     |
| 2412MHz                      | Pass   | 3.37        | -11.30              | -11.30          | 8.00                  |
| 2437MHz                      | Pass   | 3.37        | -6.78               | -6.78           | 8.00                  |
| 2462MHz                      | Pass   | 3.37        | -10.09              | -10.09          | 8.00                  |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -           | -                   | -               | -                     |
| 2412MHz                      | Pass   | 3.37        | -10.90              | -10.90          | 8.00                  |
| 2437MHz                      | Pass   | 3.37        | -6.64               | -6.64           | 8.00                  |
| 2462MHz                      | Pass   | 3.37        | -10.11              | -10.11          | 8.00                  |

**DG** = Directional Gain; **RBW** =3 kHz;

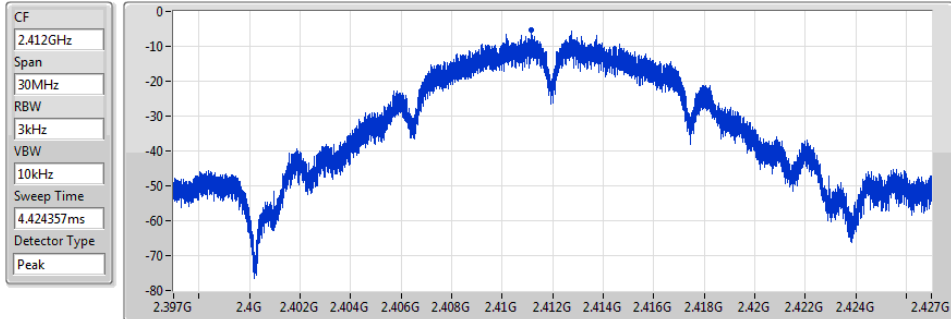
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

### 802.11b\_Nss1,(1Mbps)\_1TX

PSD

2412MHz

23/03/2020



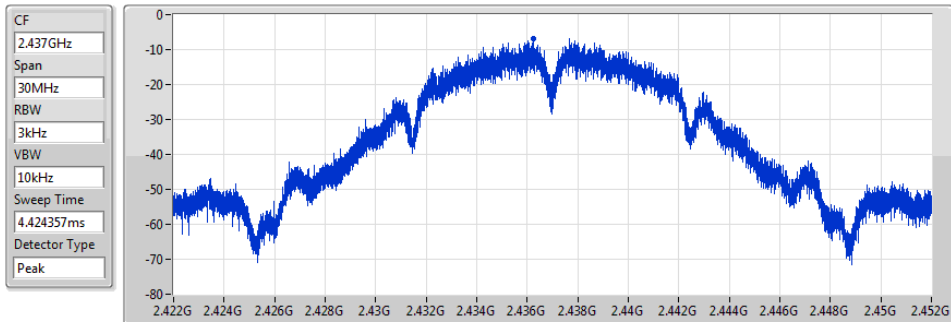
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -5.45    | -5.45    | -5.45    |

### 802.11b\_Nss1,(1Mbps)\_1TX

PSD

2437MHz

23/03/2020



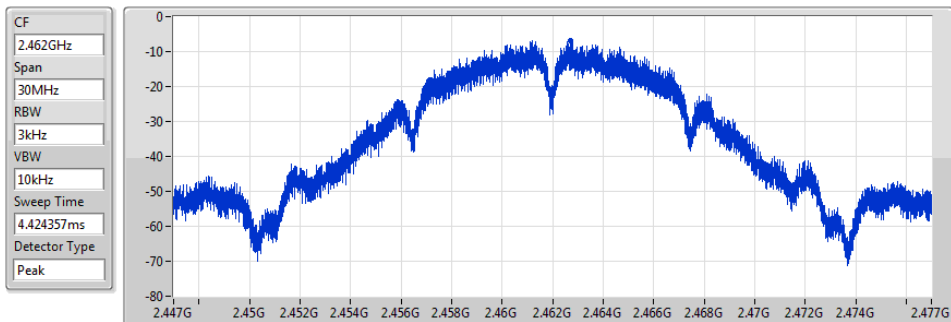
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -6.84    | -6.84    | -6.84    |

### 802.11b\_Nss1,(1Mbps)\_1TX

PSD

2462MHz

23/03/2020



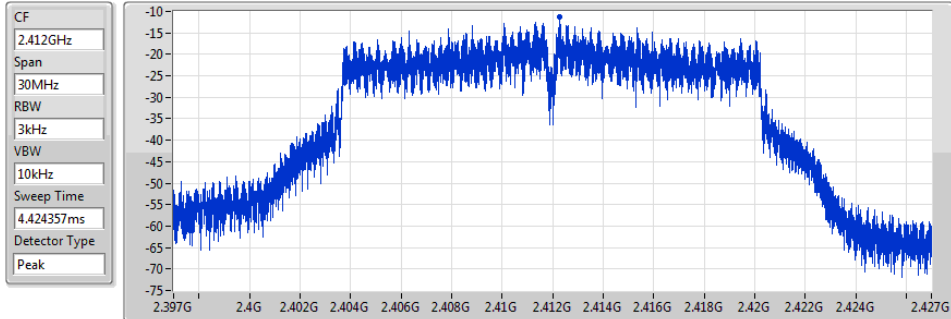
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -6.94    | -6.94    | -6.94    |

### 802.11g\_Nss1,(6Mbps)\_1TX

PSD

2412MHz

23/03/2020



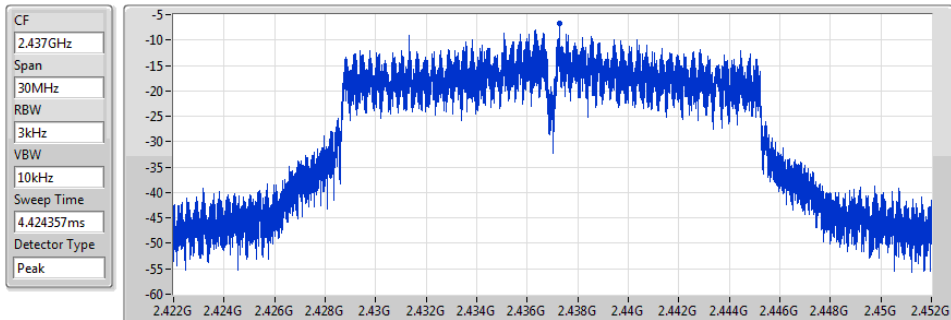
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -11.30   | -11.30   | -11.30   |

### 802.11g\_Nss1,(6Mbps)\_1TX

PSD

2437MHz

25/03/2020



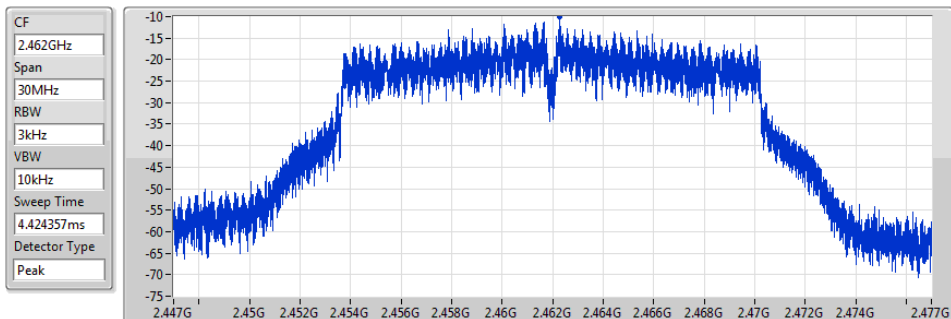
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -6.78    | -6.78    | -6.78    |

### 802.11g\_Nss1,(6Mbps)\_1TX

PSD

2462MHz

23/03/2020



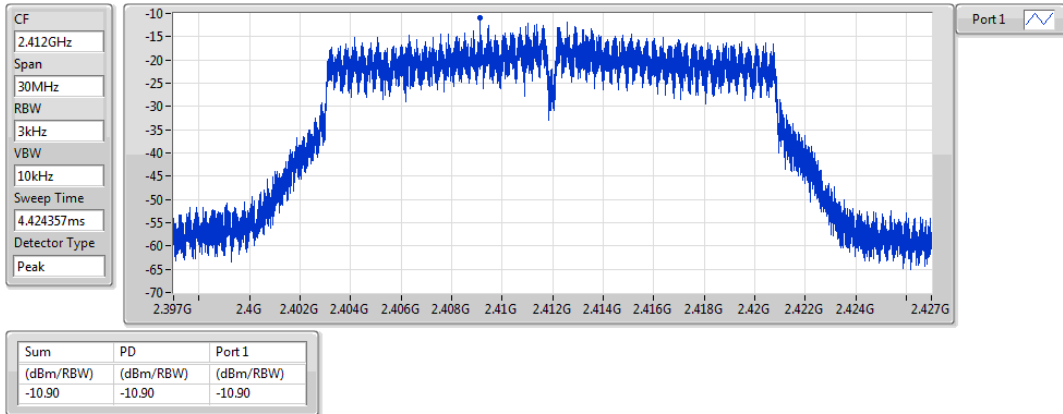
| Sum      | PD       | Port 1   |
|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -10.09   | -10.09   | -10.09   |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

PSD

2412MHz

23/03/2020

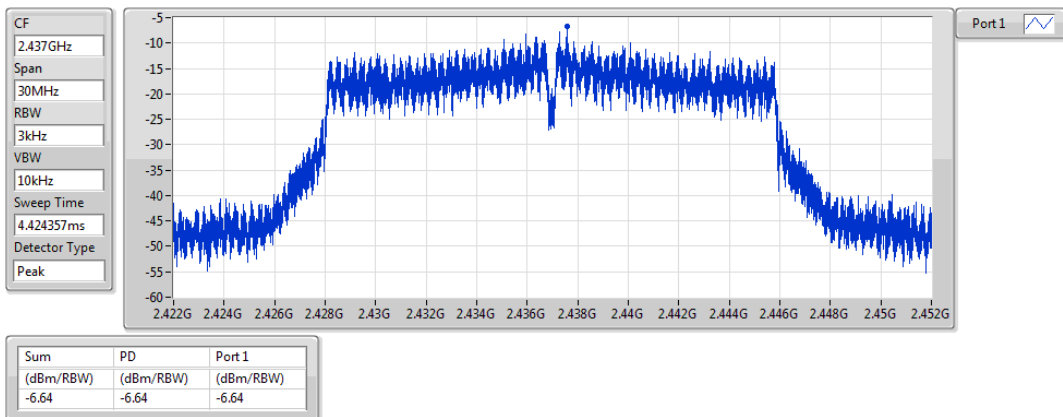


## 802.11n HT20\_Nss1,(MCS0)\_1TX

PSD

2437MHz

25/03/2020

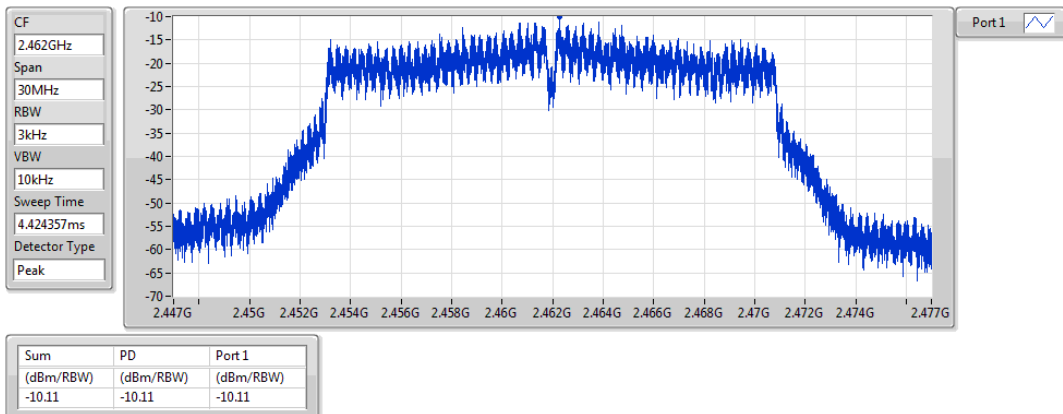


## 802.11n HT20\_Nss1,(MCS0)\_1TX

PSD

2462MHz

23/03/2020





Summary

| Mode                         | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 2.4-2.4835GHz                | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 802.11b_Nss1,(1Mbps)_1TX     | Pass   | 2.41148G    | 8.38         | -21.62         | 706.87M      | -55.95         | 2.39846G     | -29.22         | 2.4G         | -41.91         | 2.48728G     | -52.33         | 17.58276G    | -43.83         | 1    |
| 802.11g_Nss1,(6Mbps)_1TX     | Pass   | 2.43945G    | 6.39         | -23.61         | 2.30175G     | -55.17         | 2.39948G     | -30.05         | 2.4G         | -33.84         | 2.49868G     | -52.20         | 17.61928G    | -43.52         | 1    |
| 802.11n HT20_Nss1,(MCS0)_1TX | Pass   | 2.43945G    | 6.09         | -23.91         | 1.92691G     | -55.40         | 2.39822G     | -32.70         | 2.4G         | -34.55         | 2.4896G      | -52.35         | 17.49285G    | -43.59         | 1    |

**Result**

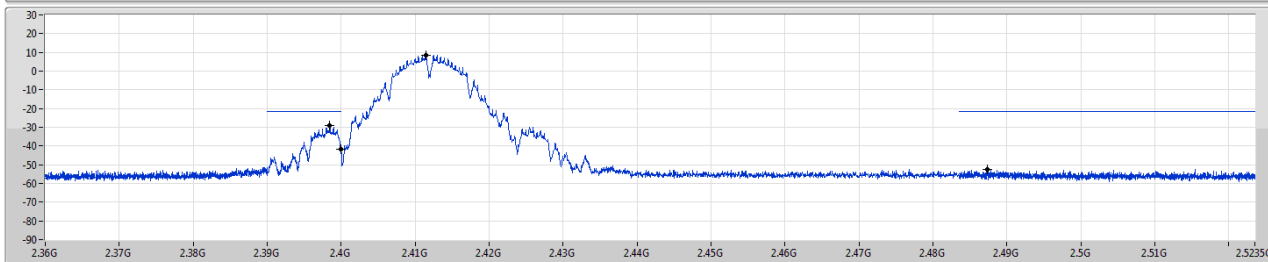
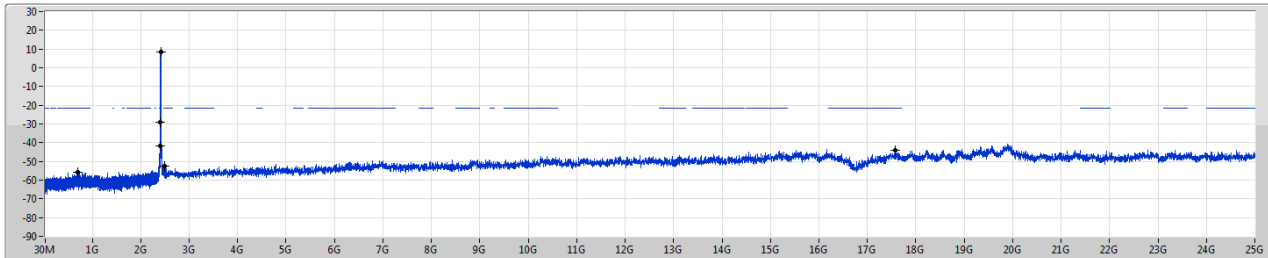
| Mode                         | Result | Ref<br>(Hz) | Ref<br>(dBm) | Limit<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Freq<br>(Hz) | Level<br>(dBm) | Port |
|------------------------------|--------|-------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|------|
| 802.11b_Nss1,(1Mbps)_1TX     | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.41148G    | 8.38         | -21.62         | 706.87M      | -55.95         | 2.39846G     | -29.22         | 2.4G         | -41.91         | 2.48728G     | -52.33         | 17.58276G    | -43.83         | 1    |
| 2437MHz                      | Pass   | 2.41148G    | 8.38         | -21.62         | 2.13137G     | -54.93         | 2.39182G     | -52.72         | 2.4G         | -53.85         | 2.50228G     | -51.83         | 17.46194G    | -42.49         | 1    |
| 2462MHz                      | Pass   | 2.41148G    | 8.38         | -21.62         | 1.98108G     | -54.35         | 2.3907G      | -53.01         | 2.4835G      | -48.14         | 2.4835G      | -49.02         | 24.91571G    | -43.78         | 1    |
| 802.11g_Nss1,(6Mbps)_1TX     | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.43945G    | 6.39         | -23.61         | 2.30175G     | -55.17         | 2.39948G     | -30.05         | 2.4G         | -33.84         | 2.49868G     | -52.20         | 17.61928G    | -43.52         | 1    |
| 2437MHz                      | Pass   | 2.4357G     | 4.83         | -25.17         | 75.73M       | -54.52         | 2.39942G     | -39.33         | 2.4G         | -42.42         | 2.484G       | -49.28         | 17.63333G    | -41.60         | 1    |
| 2462MHz                      | Pass   | 2.43945G    | 6.39         | -23.61         | 1.42887G     | -55.76         | 2.39448G     | -54.15         | 2.4835G      | -46.60         | 2.48356G     | -43.19         | 24.09532G    | -43.55         | 1    |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.43945G    | 6.09         | -23.91         | 1.92691G     | -55.40         | 2.39822G     | -32.70         | 2.4G         | -34.55         | 2.4896G      | -52.35         | 17.49285G    | -43.59         | 1    |
| 2437MHz                      | Pass   | 2.43194G    | 4.88         | -25.12         | 75.73M       | -54.14         | 2.3998G      | -42.76         | 2.4G         | -44.80         | 2.48354G     | -49.64         | 16.23136G    | -41.84         | 1    |
| 2462MHz                      | Pass   | 2.43945G    | 6.09         | -23.91         | 2.15234G     | -55.66         | 2.39746G     | -53.57         | 2.4835G      | -42.43         | 2.48414G     | -39.78         | 17.48723G    | -43.21         | 1    |

## 802.11b\_Nss1,(1Mbps)\_1TX

2412MHz

CSE NdB

23/03/2020



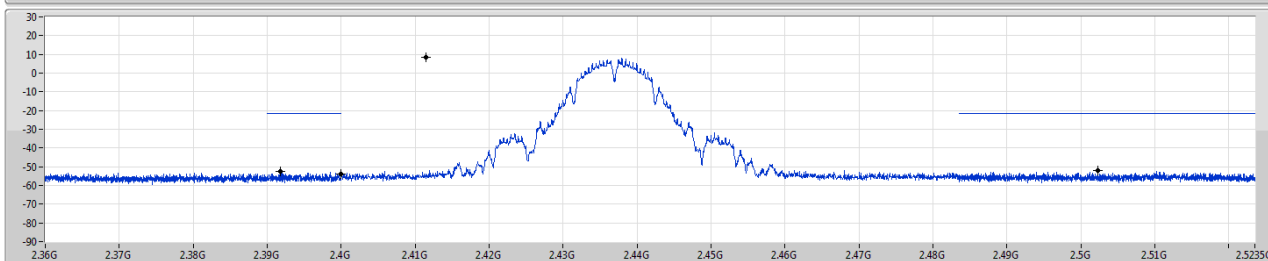
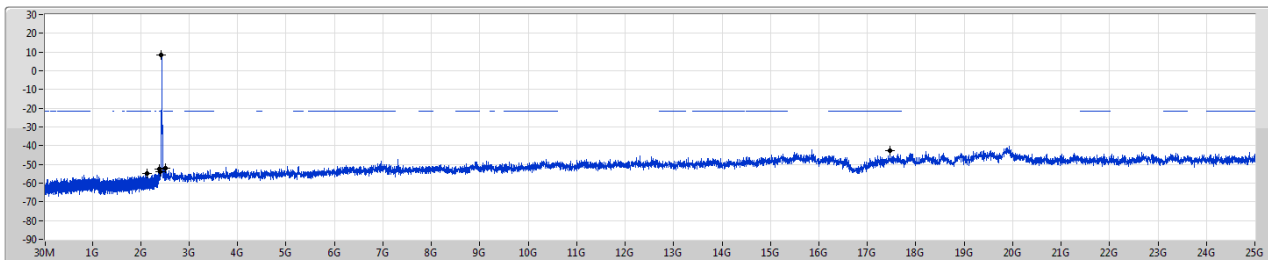
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.41148G | 8.38     | -21.62     | 706.87M  | -55.95     | 2.39846G | -29.22     | 2.4G     | -41.91     | 2.48728G | -52.33     | 17.58276G | -43.83     | 1    |

## 802.11b\_Nss1,(1Mbps)\_1TX

2437MHz

CSE NdB

23/03/2020



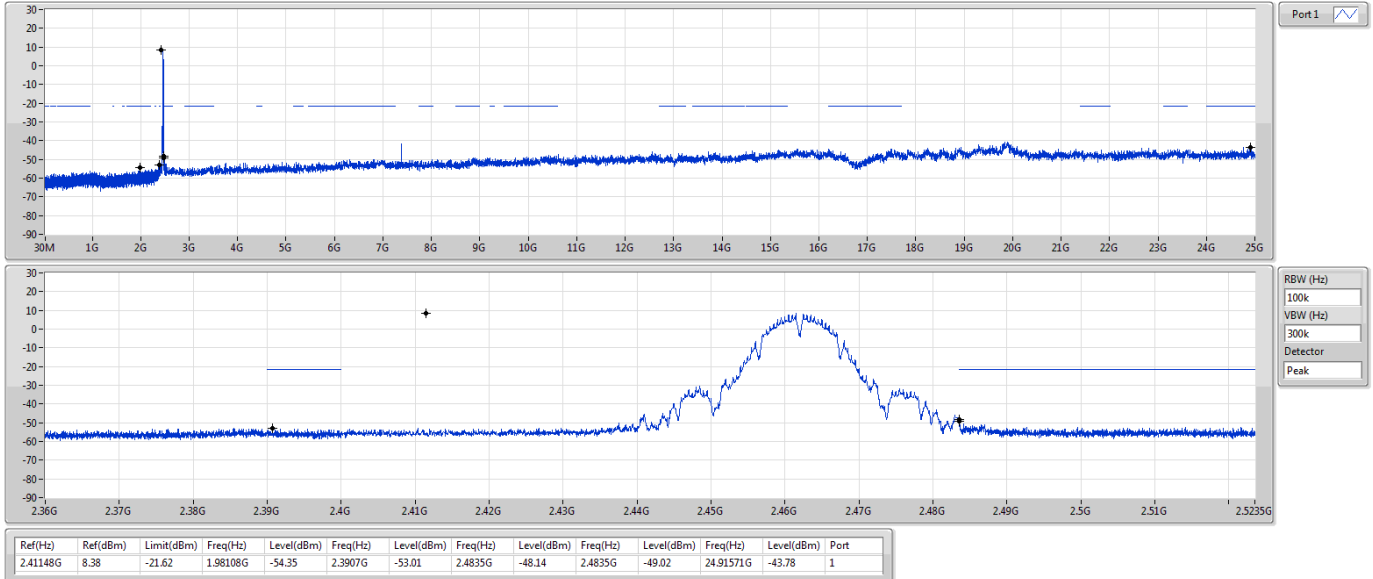
| Ref(Hz)  | Ref(dBm) | Limit(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz) | Level(dBm) | Freq(Hz)  | Level(dBm) | Port |
|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|------------|-----------|------------|------|
| 2.41148G | 8.38     | -21.62     | 2.13137G | -54.93     | 2.39182G | -52.72     | 2.4G     | -53.85     | 2.50228G | -51.83     | 17.46194G | -42.49     | 1    |

## 802.11b\_Nss1,(1Mbps)\_1TX

2462MHz

CSE NdB

23/03/2020

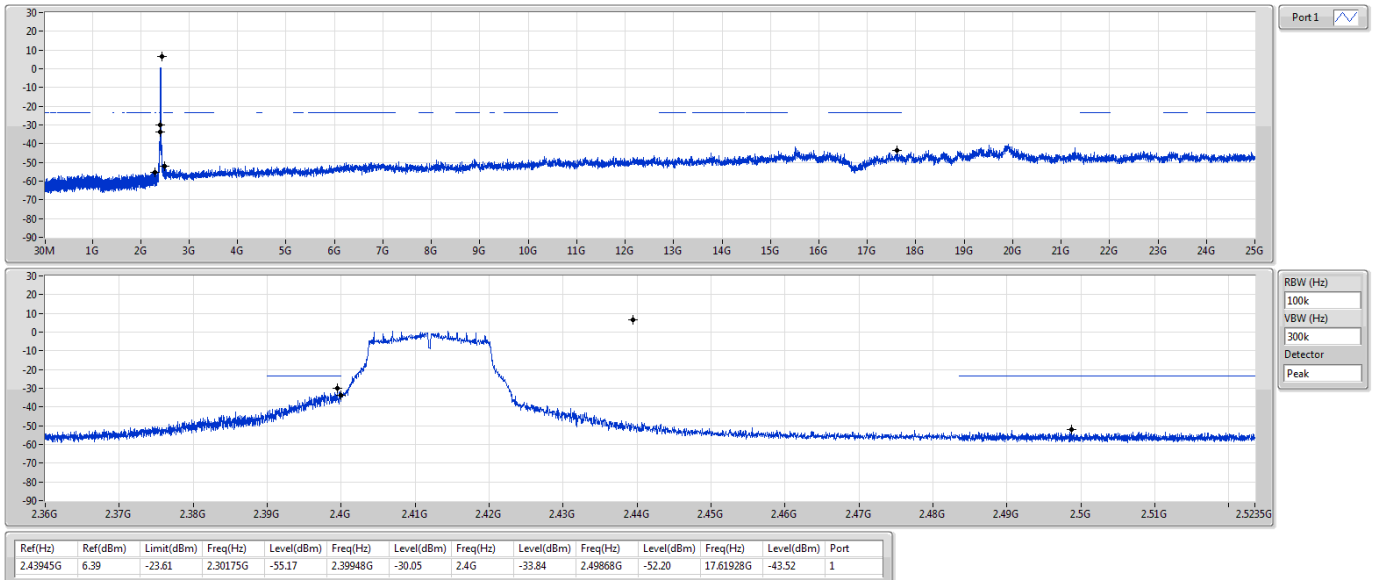


## 802.11g\_Nss1,(6Mbps)\_1TX

2412MHz

CSE NdB

23/03/2020

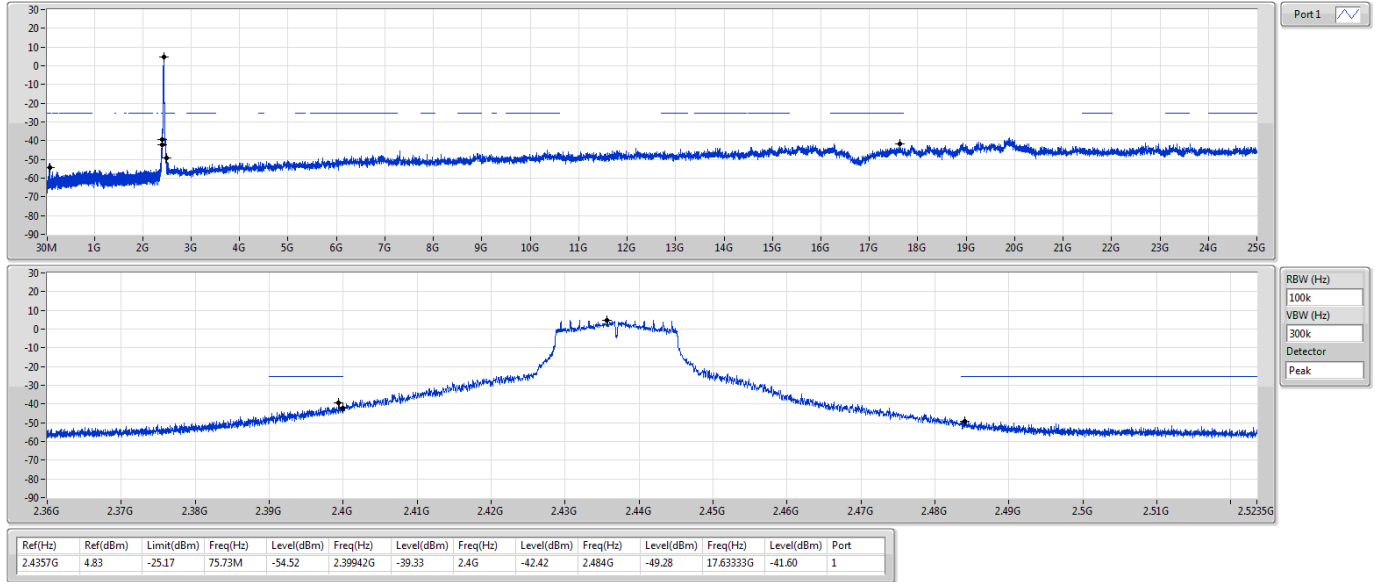


## 802.11g\_Nss1,(6Mbps)\_1TX

2437MHz

CSE NdB

25/03/2020

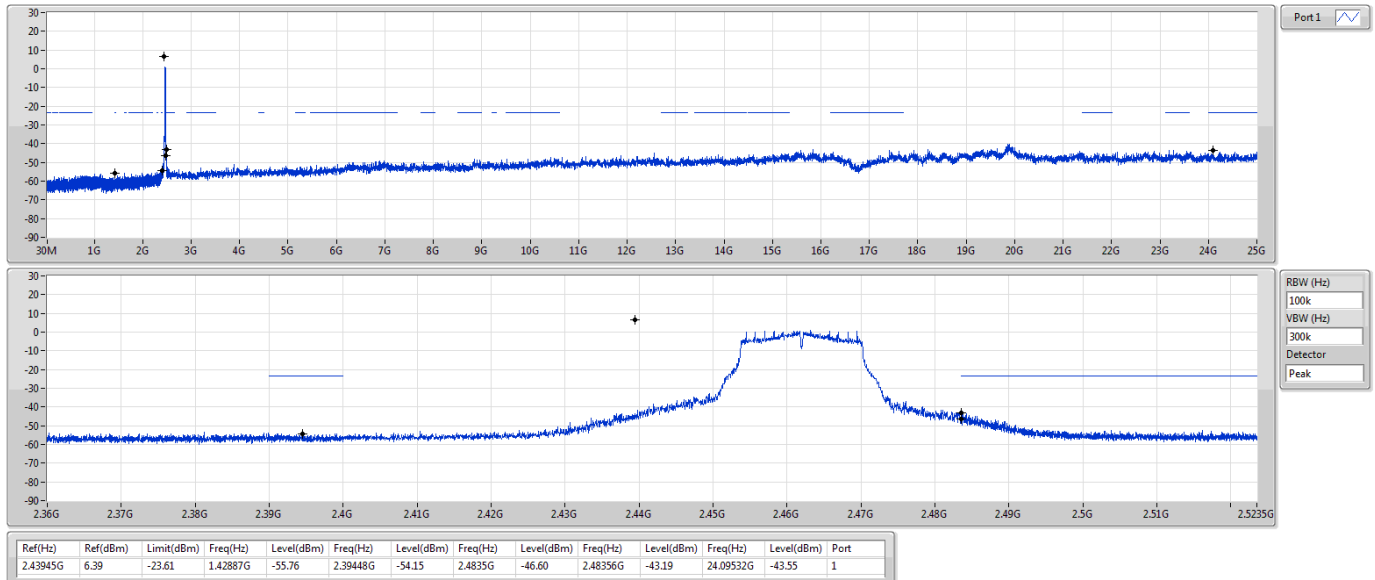


## 802.11g\_Nss1,(6Mbps)\_1TX

2462MHz

CSE NdB

23/03/2020

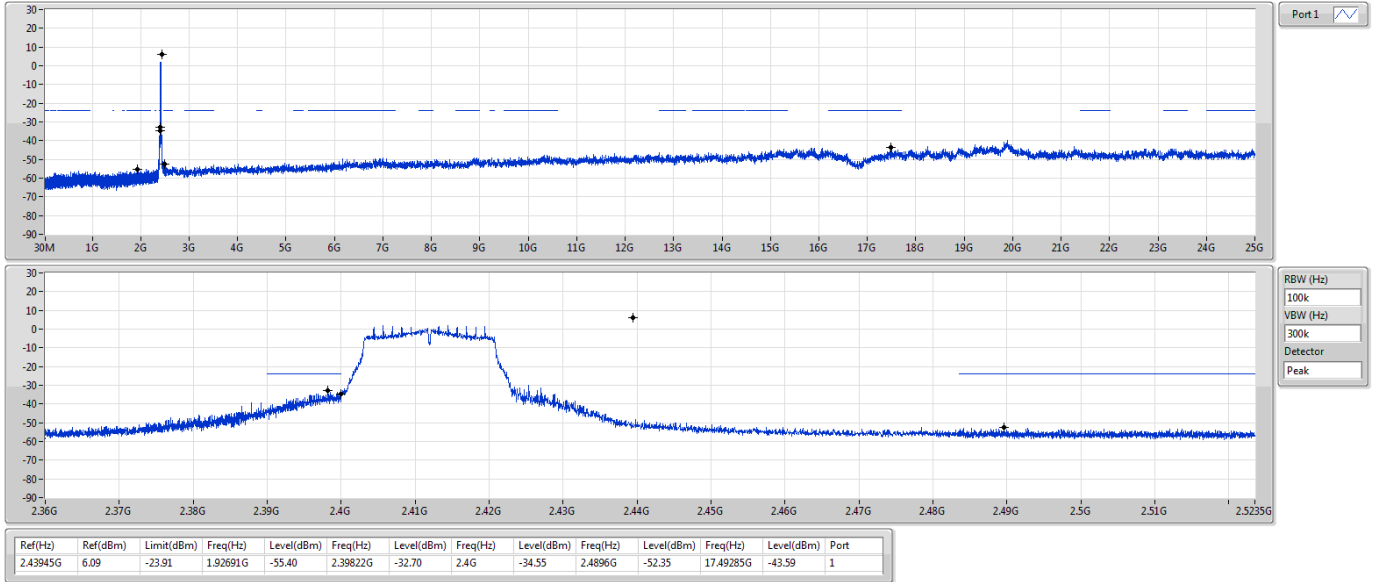


## 802.11n HT20\_Nss1,(MCS0)\_1TX

2412MHz

CSE NdB

23/03/2020

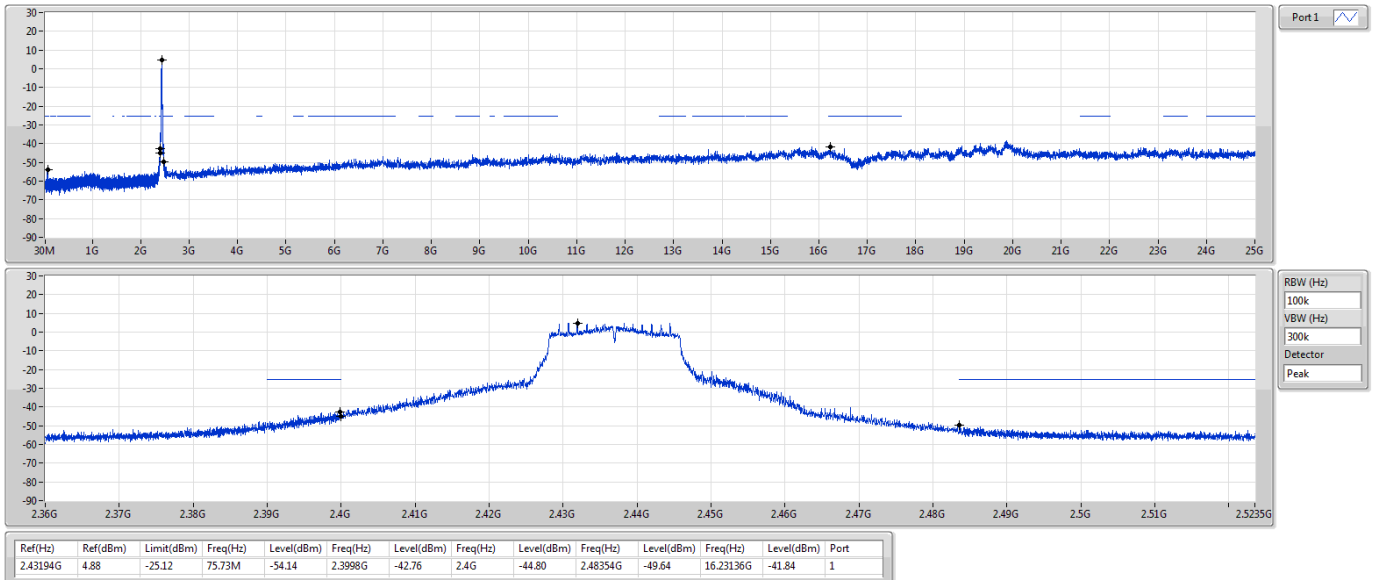


## 802.11n HT20\_Nss1,(MCS0)\_1TX

2437MHz

CSE NdB

25/03/2020

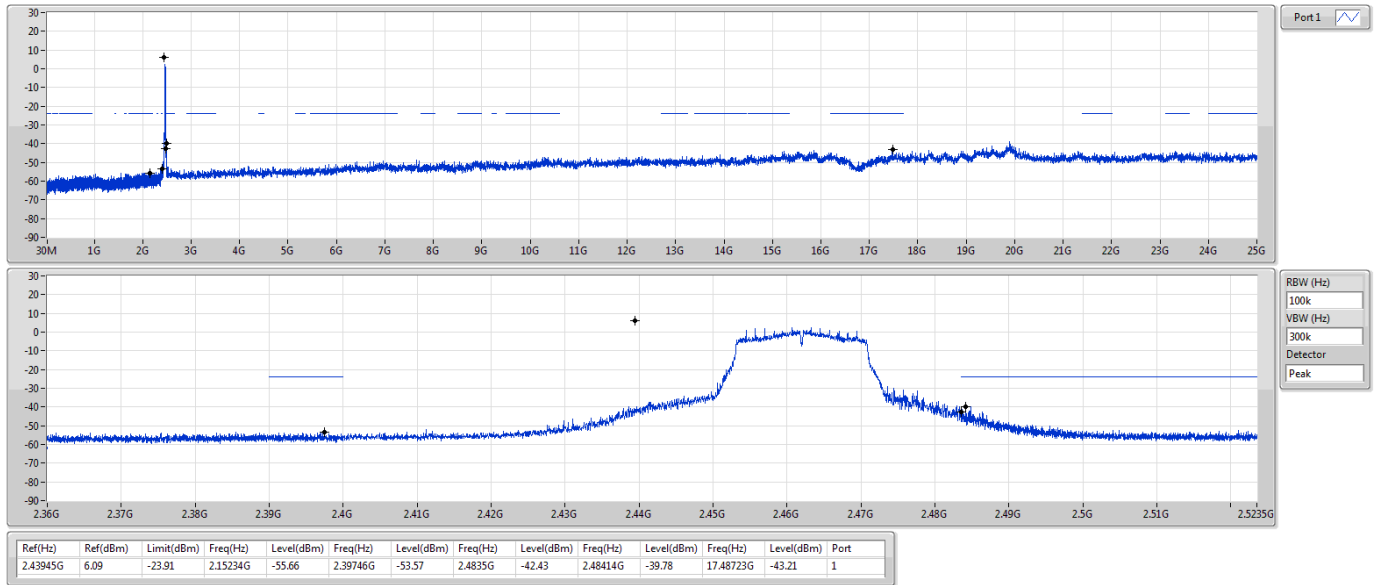


802.11n HT20\_Nss1,(MCS0)\_1TX

2462MHz

CSE NdB

23/03/2020





**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                | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 802.11n HT20_Nss1,(MCS0)_1TX | Pass   | QP   | 299.66M      | 43.87             | 46.00             | -2.13          | 3           | Horizontal | 42             | 1.00          | -        |

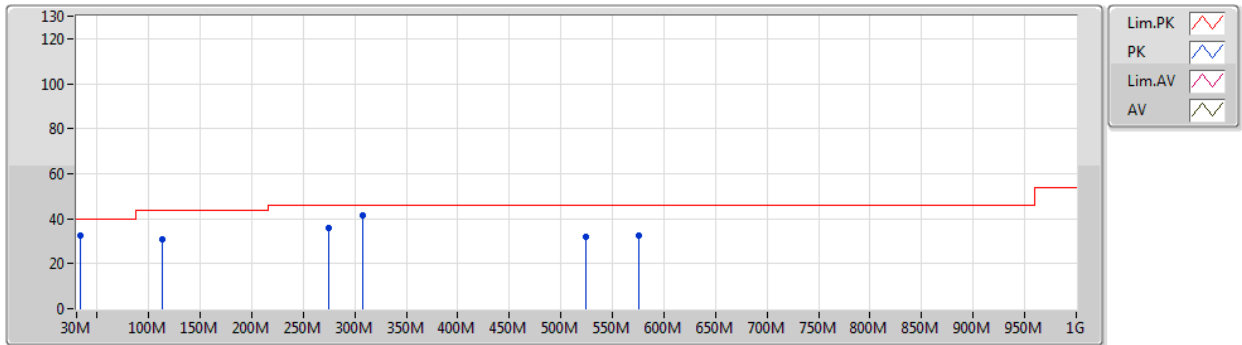
**Result**

| 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 |
|------------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2437MHz                      | Pass   | PK   | 33.88M       | 32.65             | 40.00             | -7.35          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 113.42M      | 30.60             | 43.50             | -12.90         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 274.44M      | 35.73             | 46.00             | -10.27         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 307.42M      | 41.72             | 46.00             | -4.28          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 524.7M       | 31.73             | 46.00             | -14.27         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 575.14M      | 32.75             | 46.00             | -13.25         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 113.42M      | 34.11             | 43.50             | -9.39          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 125.06M      | 35.07             | 43.50             | -8.43          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 600.36M      | 36.25             | 46.00             | -9.75          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 722.58M      | 40.06             | 46.00             | -5.94          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 897.18M      | 41.95             | 46.00             | -4.05          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz                      | Pass   | QP   | 299.66M      | 39.69             | 46.00             | -6.31          | 3           | Horizontal | 209            | 1.01          | -        |
| 2437MHz                      | Pass   | PK   | 76.56M       | 22.97             | 40.00             | -17.03         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 224M         | 24.25             | 46.00             | -21.75         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 274.44M      | 33.36             | 46.00             | -12.64         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 299.66M      | 38.87             | 46.00             | -7.13          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 375.32M      | 28.08             | 46.00             | -17.92         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 524.7M       | 30.29             | 46.00             | -15.71         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 600.36M      | 32.62             | 46.00             | -13.38         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 30M          | 17.82             | 40.00             | -22.18         | 3           | Horizontal | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 125.06M      | 27.80             | 43.50             | -15.70         | 3           | Horizontal | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 369.5M       | 35.81             | 46.00             | -10.19         | 3           | Horizontal | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 524.7M       | 33.08             | 46.00             | -12.92         | 3           | Horizontal | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 749.74M      | 38.09             | 46.00             | -7.91          | 3           | Horizontal | 0              | 1.00          | -        |
| 2437MHz                      | Pass   | QP   | 299.66M      | 43.87             | 46.00             | -2.13          | 3           | Horizontal | 42             | 1.00          | -        |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

16/04/2020

## 2437MHz\_PoE

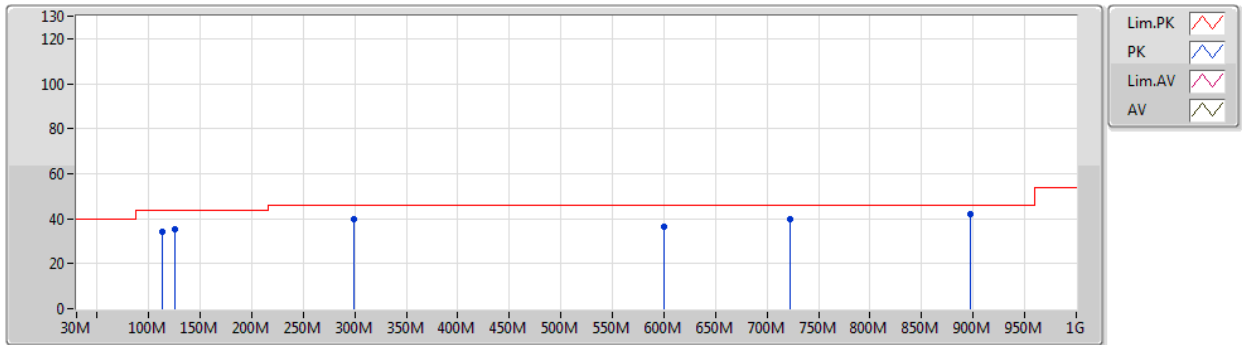


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 33.88M       | 32.65             | 40.00             | -7.35          | -5.33          | 3           | Vertical  | 0              | 1.00          | -       | 37.98         | 21.37      | 0.86       | 27.56      |
| PK   | 113.42M      | 30.60             | 43.50             | -12.90         | -8.56          | 3           | Vertical  | 0              | 1.00          | -       | 39.16         | 17.14      | 1.63       | 27.33      |
| PK   | 274.44M      | 35.73             | 46.00             | -10.27         | -6.09          | 3           | Vertical  | 0              | 1.00          | -       | 41.82         | 18.02      | 2.61       | 26.72      |
| PK   | 307.42M      | 41.72             | 46.00             | -4.28          | -5.35          | 3           | Vertical  | 0              | 1.00          | -       | 47.07         | 18.61      | 2.78       | 26.74      |
| PK   | 524.7M       | 31.73             | 46.00             | -14.27         | -1.45          | 3           | Vertical  | 0              | 1.00          | -       | 33.18         | 22.79      | 3.69       | 27.93      |
| PK   | 575.14M      | 32.75             | 46.00             | -13.25         | -0.02          | 3           | Vertical  | 0              | 1.00          | -       | 32.77         | 24.10      | 3.93       | 28.05      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

16/04/2020

## 2437MHz\_PoE

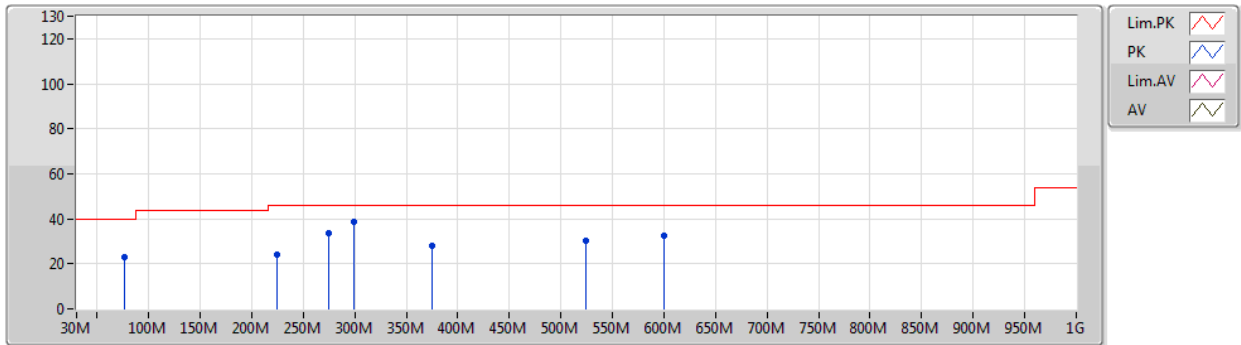


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 113.42M      | 34.11             | 43.50             | -9.39          | -8.56          | 3           | Horizontal | 360            | 1.00          | -       | 42.67         | 17.14      | 1.63       | 27.33      |
| PK   | 125.06M      | 35.07             | 43.50             | -8.43          | -8.37          | 3           | Horizontal | 360            | 1.00          | -       | 43.44         | 17.20      | 1.72       | 27.29      |
| PK   | 600.36M      | 36.25             | 46.00             | -9.75          | -0.20          | 3           | Horizontal | 360            | 1.00          | -       | 36.45         | 23.77      | 4.08       | 28.05      |
| PK   | 722.58M      | 40.06             | 46.00             | -5.94          | 0.81           | 3           | Horizontal | 360            | 1.00          | -       | 39.25         | 24.42      | 4.43       | 28.04      |
| PK   | 897.18M      | 41.95             | 46.00             | -4.05          | 3.02           | 3           | Horizontal | 360            | 1.00          | -       | 38.93         | 25.56      | 4.97       | 27.51      |
| QP   | 299.66M      | 39.69             | 46.00             | -6.31          | -5.54          | 3           | Horizontal | 209            | 1.01          | -       | 45.23         | 18.41      | 2.75       | 26.70      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

23/03/2020

## 2437MHz\_Adapter

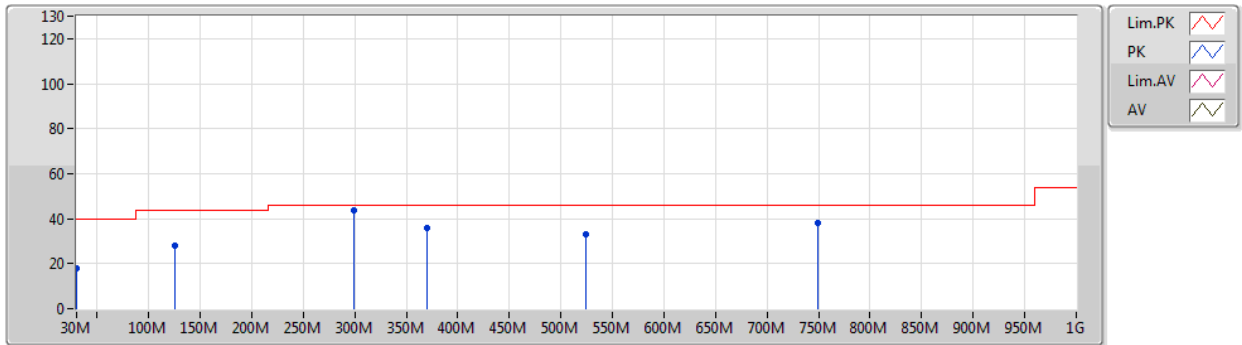


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 76.56M       | 22.97             | 40.00             | -17.03         | -14.48         | 3           | Vertical  | 0              | 1.00          | -       | 37.45         | 11.64      | 1.32       | 27.44      |
| PK   | 224M         | 24.25             | 46.00             | -21.75         | -9.82          | 3           | Vertical  | 0              | 1.00          | -       | 34.07         | 14.68      | 2.34       | 26.84      |
| PK   | 274.44M      | 33.36             | 46.00             | -12.64         | -6.09          | 3           | Vertical  | 0              | 1.00          | -       | 39.45         | 18.02      | 2.61       | 26.72      |
| PK   | 299.66M      | 38.87             | 46.00             | -7.13          | -5.54          | 3           | Vertical  | 0              | 1.00          | -       | 44.41         | 18.41      | 2.75       | 26.70      |
| PK   | 375.32M      | 28.08             | 46.00             | -17.92         | -3.96          | 3           | Vertical  | 0              | 1.00          | -       | 32.04         | 20.10      | 3.08       | 27.14      |
| PK   | 524.7M       | 30.29             | 46.00             | -15.71         | -1.45          | 3           | Vertical  | 0              | 1.00          | -       | 31.74         | 22.79      | 3.69       | 27.93      |
| PK   | 600.36M      | 32.62             | 46.00             | -13.38         | -0.20          | 3           | Vertical  | 0              | 1.00          | -       | 32.82         | 23.77      | 4.08       | 28.05      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

23/03/2020

## 2437MHz\_Adapter



| 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   | 30M          | 17.82             | 40.00             | -22.18         | -3.29          | 3           | Horizontal | 0              | 1.00          | -       | 21.11         | 23.48      | 0.80       | 27.57      |
| PK   | 125.06M      | 27.80             | 43.50             | -15.70         | -8.37          | 3           | Horizontal | 0              | 1.00          | -       | 36.17         | 17.20      | 1.72       | 27.29      |
| PK   | 369.5M       | 35.81             | 46.00             | -10.19         | -4.01          | 3           | Horizontal | 0              | 1.00          | -       | 39.82         | 20.04      | 3.05       | 27.10      |
| PK   | 524.7M       | 33.08             | 46.00             | -12.92         | -1.45          | 3           | Horizontal | 0              | 1.00          | -       | 34.53         | 22.79      | 3.69       | 27.93      |
| PK   | 749.74M      | 38.09             | 46.00             | -7.91          | 1.25           | 3           | Horizontal | 0              | 1.00          | -       | 36.84         | 24.78      | 4.51       | 28.04      |
| QP   | 299.66M      | 43.87             | 46.00             | -2.13          | -5.54          | 3           | Horizontal | 42             | 1.00          | -       | 49.41         | 18.41      | 2.75       | 26.70      |

**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                | -      | -    | -            | -                 | -                 | -              | -           | -         | -              | -             | -        |
| 802.11b_Nss1,(1Mbps)_1TX     | Pass   | AV   | 4.8239G      | 52.75             | 54.00             | -1.25          | 3           | Vertical  | 357            | 2.36          | -        |
| 802.11g_Nss1,(6Mbps)_1TX     | Pass   | AV   | 2.4836G      | 53.72             | 54.00             | -0.28          | 3           | Vertical  | 360            | 2.81          | -        |
| 802.11n HT20_Nss1,(MCS0)_1TX | Pass   | AV   | 2.39G        | 53.20             | 54.00             | -0.80          | 3           | Vertical  | 0              | 2.84          | -        |

**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 |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11b_Nss1,(1Mbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 52.25             | 54.00             | -1.75          | 3           | Vertical   | 0              | 2.83          | -        |
| 2412MHz                  | Pass   | AV   | 2.411G       | 106.67            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.83          | -        |
| 2412MHz                  | Pass   | PK   | 2.3892G      | 62.02             | 74.00             | -11.98         | 3           | Vertical   | 0              | 2.83          | -        |
| 2412MHz                  | Pass   | PK   | 2.411G       | 109.02            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.83          | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 51.09             | 54.00             | -2.91          | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                  | Pass   | AV   | 2.4112G      | 102.86            | Inf               | -Inf           | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                  | Pass   | PK   | 2.39G        | 60.95             | 74.00             | -13.05         | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                  | Pass   | PK   | 2.411G       | 105.21            | Inf               | -Inf           | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                  | Pass   | AV   | 4.8239G      | 52.75             | 54.00             | -1.25          | 3           | Vertical   | 357            | 2.36          | -        |
| 2412MHz                  | Pass   | PK   | 4.8239G      | 56.35             | 74.00             | -17.65         | 3           | Vertical   | 357            | 2.36          | -        |
| 2412MHz                  | Pass   | AV   | 4.82388G     | 49.68             | 54.00             | -4.32          | 3           | Horizontal | 317            | 1.23          | -        |
| 2412MHz                  | Pass   | PK   | 4.8239G      | 54.59             | 74.00             | -19.41         | 3           | Horizontal | 317            | 1.23          | -        |
| 2437MHz                  | Pass   | AV   | 2.3894G      | 48.57             | 54.00             | -5.43          | 3           | Vertical   | 0              | 2.78          | -        |
| 2437MHz                  | Pass   | AV   | 2.4362G      | 105.29            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.78          | -        |
| 2437MHz                  | Pass   | AV   | 2.4998G      | 49.98             | 54.00             | -4.02          | 3           | Vertical   | 0              | 2.78          | -        |
| 2437MHz                  | Pass   | PK   | 2.3826G      | 60.58             | 74.00             | -13.42         | 3           | Vertical   | 0              | 2.78          | -        |
| 2437MHz                  | Pass   | PK   | 2.4362G      | 107.69            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.78          | -        |
| 2437MHz                  | Pass   | PK   | 2.4906G      | 62.38             | 74.00             | -11.62         | 3           | Vertical   | 0              | 2.78          | -        |
| 2437MHz                  | Pass   | AV   | 2.389G       | 48.57             | 54.00             | -5.43          | 3           | Horizontal | 39             | 2.72          | -        |
| 2437MHz                  | Pass   | AV   | 2.4362G      | 102.67            | Inf               | -Inf           | 3           | Horizontal | 39             | 2.72          | -        |
| 2437MHz                  | Pass   | AV   | 2.4986G      | 49.97             | 54.00             | -4.03          | 3           | Horizontal | 39             | 2.72          | -        |
| 2437MHz                  | Pass   | PK   | 2.3802G      | 60.62             | 74.00             | -13.38         | 3           | Horizontal | 39             | 2.72          | -        |
| 2437MHz                  | Pass   | PK   | 2.4362G      | 105.09            | Inf               | -Inf           | 3           | Horizontal | 39             | 2.72          | -        |
| 2437MHz                  | Pass   | PK   | 2.4854G      | 62.34             | 74.00             | -11.66         | 3           | Horizontal | 39             | 2.72          | -        |
| 2437MHz                  | Pass   | AV   | 4.87388G     | 52.23             | 54.00             | -1.77          | 3           | Vertical   | 360            | 2.44          | -        |
| 2437MHz                  | Pass   | AV   | 7.30988G     | 45.31             | 54.00             | -8.69          | 3           | Vertical   | 180            | 1.94          | -        |
| 2437MHz                  | Pass   | PK   | 4.87388G     | 55.48             | 74.00             | -18.52         | 3           | Vertical   | 360            | 2.44          | -        |
| 2437MHz                  | Pass   | PK   | 7.30976G     | 55.43             | 74.00             | -18.57         | 3           | Vertical   | 180            | 1.94          | -        |
| 2437MHz                  | Pass   | AV   | 4.87392G     | 48.76             | 54.00             | -5.24          | 3           | Horizontal | 113            | 2.22          | -        |
| 2437MHz                  | Pass   | AV   | 7.31G        | 45.86             | 54.00             | -8.14          | 3           | Horizontal | 11             | 1.00          | -        |
| 2437MHz                  | Pass   | PK   | 4.87392G     | 53.15             | 74.00             | -20.85         | 3           | Horizontal | 113            | 2.22          | -        |
| 2437MHz                  | Pass   | PK   | 7.3106G      | 55.95             | 74.00             | -18.05         | 3           | Horizontal | 11             | 1.00          | -        |
| 2462MHz                  | Pass   | AV   | 2.4628G      | 105.27            | Inf               | -Inf           | 3           | Vertical   | 359            | 2.80          | -        |
| 2462MHz                  | Pass   | AV   | 2.4835G      | 51.64             | 54.00             | -2.36          | 3           | Vertical   | 359            | 2.80          | -        |
| 2462MHz                  | Pass   | PK   | 2.4628G      | 107.60            | Inf               | -Inf           | 3           | Vertical   | 359            | 2.80          | -        |
| 2462MHz                  | Pass   | PK   | 2.496G       | 62.38             | 74.00             | -11.62         | 3           | Vertical   | 359            | 2.80          | -        |
| 2462MHz                  | Pass   | AV   | 2.4628G      | 100.72            | Inf               | -Inf           | 3           | Horizontal | 343            | 1.01          | -        |
| 2462MHz                  | Pass   | AV   | 2.4835G      | 50.65             | 54.00             | -3.35          | 3           | Horizontal | 343            | 1.01          | -        |
| 2462MHz                  | Pass   | PK   | 2.4628G      | 103.07            | Inf               | -Inf           | 3           | Horizontal | 343            | 1.01          | -        |
| 2462MHz                  | Pass   | PK   | 2.49G        | 62.24             | 74.00             | -11.76         | 3           | Horizontal | 343            | 1.01          | -        |
| 2462MHz                  | Pass   | AV   | 4.92384G     | 52.03             | 54.00             | -1.97          | 3           | Vertical   | 354            | 2.10          | -        |
| 2462MHz                  | Pass   | AV   | 7.38484G     | 46.04             | 54.00             | -7.96          | 3           | Vertical   | 284            | 1.04          | -        |
| 2462MHz                  | Pass   | PK   | 4.92388G     | 55.64             | 74.00             | -18.36         | 3           | Vertical   | 354            | 2.10          | -        |
| 2462MHz                  | Pass   | PK   | 7.38636G     | 55.32             | 74.00             | -18.68         | 3           | Vertical   | 284            | 1.04          | -        |
| 2462MHz                  | Pass   | AV   | 4.92392G     | 47.34             | 54.00             | -6.66          | 3           | Horizontal | 283            | 1.01          | -        |
| 2462MHz                  | Pass   | AV   | 7.385G       | 44.11             | 54.00             | -9.89          | 3           | Horizontal | 0              | 1.02          | -        |
| 2462MHz                  | Pass   | PK   | 4.92388G     | 52.58             | 74.00             | -21.42         | 3           | Horizontal | 283            | 1.01          | -        |

Remark :

Page No. : F2 of F49

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)

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| 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 |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2462MHz                  | Pass   | PK   | 7.38664G     | 55.29             | 74.00             | -18.71         | 3           | Horizontal | 0              | 1.02          | -        |
| 802.11g_Nss1,(6Mbps)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 53.20             | 54.00             | -0.80          | 3           | Vertical   | 0              | 2.82          | -        |
| 2412MHz                  | Pass   | AV   | 2.4114G      | 98.10             | Inf               | -Inf           | 3           | Vertical   | 0              | 2.82          | -        |
| 2412MHz                  | Pass   | PK   | 2.39G        | 68.10             | 74.00             | -5.90          | 3           | Vertical   | 0              | 2.82          | -        |
| 2412MHz                  | Pass   | PK   | 2.4126G      | 106.45            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.82          | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 51.09             | 54.00             | -2.91          | 3           | Horizontal | 312            | 1.66          | -        |
| 2412MHz                  | Pass   | AV   | 2.4112G      | 94.04             | Inf               | -Inf           | 3           | Horizontal | 312            | 1.66          | -        |
| 2412MHz                  | Pass   | PK   | 2.3872G      | 64.87             | 74.00             | -9.13          | 3           | Horizontal | 312            | 1.66          | -        |
| 2412MHz                  | Pass   | PK   | 2.4102G      | 102.29            | Inf               | -Inf           | 3           | Horizontal | 312            | 1.66          | -        |
| 2412MHz                  | Pass   | AV   | 4.8275G      | 37.42             | 54.00             | -16.58         | 3           | Vertical   | 357            | 2.10          | -        |
| 2412MHz                  | Pass   | PK   | 4.8276G      | 49.84             | 74.00             | -24.16         | 3           | Vertical   | 357            | 2.10          | -        |
| 2412MHz                  | Pass   | AV   | 4.82396G     | 36.87             | 54.00             | -17.13         | 3           | Horizontal | 349            | 2.19          | -        |
| 2412MHz                  | Pass   | PK   | 4.82632G     | 50.18             | 74.00             | -23.82         | 3           | Horizontal | 349            | 2.19          | -        |
| 2417MHz                  | Pass   | AV   | 2.39G        | 52.67             | 54.00             | -1.33          | 3           | Vertical   | 246            | 1.02          | -        |
| 2417MHz                  | Pass   | AV   | 2.4162G      | 97.01             | Inf               | -Inf           | 3           | Vertical   | 246            | 1.02          | -        |
| 2417MHz                  | Pass   | PK   | 2.3892G      | 68.21             | 74.00             | -5.79          | 3           | Vertical   | 246            | 1.02          | -        |
| 2417MHz                  | Pass   | PK   | 2.4176G      | 105.38            | Inf               | -Inf           | 3           | Vertical   | 246            | 1.02          | -        |
| 2417MHz                  | Pass   | AV   | 2.3898G      | 51.30             | 54.00             | -2.70          | 3           | Horizontal | 314            | 1.50          | -        |
| 2417MHz                  | Pass   | AV   | 2.4162G      | 94.88             | Inf               | -Inf           | 3           | Horizontal | 314            | 1.50          | -        |
| 2417MHz                  | Pass   | PK   | 2.3894G      | 66.56             | 74.00             | -7.44          | 3           | Horizontal | 314            | 1.50          | -        |
| 2417MHz                  | Pass   | PK   | 2.4176G      | 103.11            | Inf               | -Inf           | 3           | Horizontal | 314            | 1.50          | -        |
| 2437MHz                  | Pass   | AV   | 2.3898G      | 51.08             | 54.00             | -2.92          | 3           | Vertical   | 0              | 2.77          | -        |
| 2437MHz                  | Pass   | AV   | 2.4362G      | 103.97            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.77          | -        |
| 2437MHz                  | Pass   | AV   | 2.4842G      | 51.65             | 54.00             | -2.35          | 3           | Vertical   | 0              | 2.77          | -        |
| 2437MHz                  | Pass   | PK   | 2.389G       | 63.07             | 74.00             | -10.93         | 3           | Vertical   | 0              | 2.77          | -        |
| 2437MHz                  | Pass   | PK   | 2.4354G      | 112.07            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.77          | -        |
| 2437MHz                  | Pass   | PK   | 2.4842G      | 62.86             | 74.00             | -11.14         | 3           | Vertical   | 0              | 2.77          | -        |
| 2437MHz                  | Pass   | AV   | 2.3898G      | 49.93             | 54.00             | -4.07          | 3           | Horizontal | 40             | 2.73          | -        |
| 2437MHz                  | Pass   | AV   | 2.4362G      | 101.14            | Inf               | -Inf           | 3           | Horizontal | 40             | 2.73          | -        |
| 2437MHz                  | Pass   | AV   | 2.4838G      | 50.65             | 54.00             | -3.35          | 3           | Horizontal | 40             | 2.73          | -        |
| 2437MHz                  | Pass   | PK   | 2.3894G      | 61.40             | 74.00             | -12.60         | 3           | Horizontal | 40             | 2.73          | -        |
| 2437MHz                  | Pass   | PK   | 2.4354G      | 109.32            | Inf               | -Inf           | 3           | Horizontal | 40             | 2.73          | -        |
| 2437MHz                  | Pass   | PK   | 2.4978G      | 61.96             | 74.00             | -12.04         | 3           | Horizontal | 40             | 2.73          | -        |
| 2437MHz                  | Pass   | AV   | 4.8738G      | 44.50             | 54.00             | -9.50          | 3           | Vertical   | 359            | 2.44          | -        |
| 2437MHz                  | Pass   | AV   | 7.312G       | 44.08             | 54.00             | -9.92          | 3           | Vertical   | 177            | 2.04          | -        |
| 2437MHz                  | Pass   | PK   | 4.8732G      | 57.00             | 74.00             | -17.00         | 3           | Vertical   | 359            | 2.44          | -        |
| 2437MHz                  | Pass   | PK   | 7.3139G      | 56.73             | 74.00             | -17.27         | 3           | Vertical   | 177            | 2.04          | -        |
| 2437MHz                  | Pass   | AV   | 4.8731G      | 40.98             | 54.00             | -13.02         | 3           | Horizontal | 321            | 1.00          | -        |
| 2437MHz                  | Pass   | AV   | 7.313G       | 44.41             | 54.00             | -9.59          | 3           | Horizontal | 10             | 1.00          | -        |
| 2437MHz                  | Pass   | PK   | 4.8729G      | 53.34             | 74.00             | -20.66         | 3           | Horizontal | 321            | 1.00          | -        |
| 2437MHz                  | Pass   | PK   | 7.3133G      | 56.84             | 74.00             | -17.16         | 3           | Horizontal | 10             | 1.00          | -        |
| 2457MHz                  | Pass   | AV   | 2.4562G      | 101.26            | Inf               | -Inf           | 3           | Vertical   | 360            | 2.81          | -        |
| 2457MHz                  | Pass   | AV   | 2.4836G      | 53.72             | 54.00             | -0.28          | 3           | Vertical   | 360            | 2.81          | -        |
| 2457MHz                  | Pass   | PK   | 2.4552G      | 109.41            | Inf               | -Inf           | 3           | Vertical   | 360            | 2.81          | -        |
| 2457MHz                  | Pass   | PK   | 2.4835G      | 66.30             | 74.00             | -7.70          | 3           | Vertical   | 360            | 2.81          | -        |
| 2457MHz                  | Pass   | AV   | 2.4562G      | 96.24             | Inf               | -Inf           | 3           | Horizontal | 311            | 1.37          | -        |
| 2457MHz                  | Pass   | AV   | 2.486G       | 51.43             | 54.00             | -2.57          | 3           | Horizontal | 311            | 1.37          | -        |
| 2457MHz                  | Pass   | PK   | 2.4576G      | 104.43            | Inf               | -Inf           | 3           | Horizontal | 311            | 1.37          | -        |

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)

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| 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 |
|------------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2457MHz                      | Pass   | PK   | 2.4854G      | 64.01             | 74.00             | -9.99          | 3           | Horizontal | 311            | 1.37          | -        |
| 2462MHz                      | Pass   | AV   | 2.4612G      | 98.89             | Inf               | -Inf           | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz                      | Pass   | AV   | 2.4846G      | 52.12             | 54.00             | -1.88          | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz                      | Pass   | PK   | 2.4626G      | 107.41            | Inf               | -Inf           | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz                      | Pass   | PK   | 2.4836G      | 69.78             | 74.00             | -4.22          | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz                      | Pass   | AV   | 2.4626G      | 94.45             | Inf               | -Inf           | 3           | Horizontal | 312            | 1.40          | -        |
| 2462MHz                      | Pass   | AV   | 2.4846G      | 50.67             | 54.00             | -3.33          | 3           | Horizontal | 312            | 1.40          | -        |
| 2462MHz                      | Pass   | PK   | 2.4626G      | 103.08            | Inf               | -Inf           | 3           | Horizontal | 312            | 1.40          | -        |
| 2462MHz                      | Pass   | PK   | 2.4835G      | 64.53             | 74.00             | -9.47          | 3           | Horizontal | 312            | 1.40          | -        |
| 2462MHz                      | Pass   | AV   | 4.92578G     | 37.55             | 54.00             | -16.45         | 3           | Vertical   | 297            | 1.32          | -        |
| 2462MHz                      | Pass   | PK   | 4.92318G     | 49.52             | 74.00             | -24.48         | 3           | Vertical   | 297            | 1.32          | -        |
| 2462MHz                      | Pass   | AV   | 4.92662G     | 36.43             | 54.00             | -17.57         | 3           | Horizontal | 138            | 2.06          | -        |
| 2462MHz                      | Pass   | PK   | 4.92672G     | 48.60             | 74.00             | -25.40         | 3           | Horizontal | 138            | 2.06          | -        |
| 802.11n HT20_Nss1,(MCS0)_1TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                      | Pass   | AV   | 2.39G        | 53.20             | 54.00             | -0.80          | 3           | Vertical   | 0              | 2.84          | -        |
| 2412MHz                      | Pass   | AV   | 2.4114G      | 98.25             | Inf               | -Inf           | 3           | Vertical   | 0              | 2.84          | -        |
| 2412MHz                      | Pass   | PK   | 2.3888G      | 70.32             | 74.00             | -3.68          | 3           | Vertical   | 0              | 2.84          | -        |
| 2412MHz                      | Pass   | PK   | 2.4098G      | 106.89            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.84          | -        |
| 2412MHz                      | Pass   | AV   | 2.39G        | 51.51             | 54.00             | -2.49          | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                      | Pass   | AV   | 2.4114G      | 93.94             | Inf               | -Inf           | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                      | Pass   | PK   | 2.3896G      | 66.71             | 74.00             | -7.29          | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                      | Pass   | PK   | 2.4128G      | 102.65            | Inf               | -Inf           | 3           | Horizontal | 314            | 1.50          | -        |
| 2412MHz                      | Pass   | AV   | 4.8236G      | 37.64             | 54.00             | -16.36         | 3           | Vertical   | 360            | 2.35          | -        |
| 2412MHz                      | Pass   | PK   | 4.8206G      | 50.19             | 74.00             | -23.81         | 3           | Vertical   | 360            | 2.35          | -        |
| 2412MHz                      | Pass   | AV   | 4.8248G      | 36.53             | 54.00             | -17.47         | 3           | Horizontal | 133            | 1.02          | -        |
| 2412MHz                      | Pass   | PK   | 4.82268G     | 49.55             | 74.00             | -24.45         | 3           | Horizontal | 133            | 1.02          | -        |
| 2417MHz                      | Pass   | AV   | 2.39G        | 51.51             | 54.00             | -2.49          | 3           | Vertical   | 247            | 1.02          | -        |
| 2417MHz                      | Pass   | AV   | 2.4164G      | 97.03             | Inf               | -Inf           | 3           | Vertical   | 247            | 1.02          | -        |
| 2417MHz                      | Pass   | PK   | 2.3894G      | 68.09             | 74.00             | -5.91          | 3           | Vertical   | 247            | 1.02          | -        |
| 2417MHz                      | Pass   | PK   | 2.417G       | 105.71            | Inf               | -Inf           | 3           | Vertical   | 247            | 1.02          | -        |
| 2417MHz                      | Pass   | AV   | 2.3898G      | 50.86             | 54.00             | -3.14          | 3           | Horizontal | 313            | 1.50          | -        |
| 2417MHz                      | Pass   | AV   | 2.4162G      | 95.15             | Inf               | -Inf           | 3           | Horizontal | 313            | 1.50          | -        |
| 2417MHz                      | Pass   | PK   | 2.39G        | 65.93             | 74.00             | -8.07          | 3           | Horizontal | 313            | 1.50          | -        |
| 2417MHz                      | Pass   | PK   | 2.416G       | 104.39            | Inf               | -Inf           | 3           | Horizontal | 313            | 1.50          | -        |
| 2437MHz                      | Pass   | AV   | 2.3898G      | 50.64             | 54.00             | -3.36          | 3           | Vertical   | 10             | 2.78          | -        |
| 2437MHz                      | Pass   | AV   | 2.4358G      | 103.25            | Inf               | -Inf           | 3           | Vertical   | 10             | 2.78          | -        |
| 2437MHz                      | Pass   | AV   | 2.4842G      | 51.41             | 54.00             | -2.59          | 3           | Vertical   | 10             | 2.78          | -        |
| 2437MHz                      | Pass   | PK   | 2.3882G      | 61.69             | 74.00             | -12.31         | 3           | Vertical   | 10             | 2.78          | -        |
| 2437MHz                      | Pass   | PK   | 2.4354G      | 112.14            | Inf               | -Inf           | 3           | Vertical   | 10             | 2.78          | -        |
| 2437MHz                      | Pass   | PK   | 2.4838G      | 62.85             | 74.00             | -11.15         | 3           | Vertical   | 10             | 2.78          | -        |
| 2437MHz                      | Pass   | AV   | 2.3886G      | 49.90             | 54.00             | -4.10          | 3           | Horizontal | 40             | 2.72          | -        |
| 2437MHz                      | Pass   | AV   | 2.4362G      | 100.76            | Inf               | -Inf           | 3           | Horizontal | 40             | 2.72          | -        |
| 2437MHz                      | Pass   | AV   | 2.491G       | 50.46             | 54.00             | -3.54          | 3           | Horizontal | 40             | 2.72          | -        |
| 2437MHz                      | Pass   | PK   | 2.3822G      | 61.12             | 74.00             | -12.88         | 3           | Horizontal | 40             | 2.72          | -        |
| 2437MHz                      | Pass   | PK   | 2.437G       | 109.43            | Inf               | -Inf           | 3           | Horizontal | 40             | 2.72          | -        |
| 2437MHz                      | Pass   | PK   | 2.4846G      | 62.34             | 74.00             | -11.66         | 3           | Horizontal | 40             | 2.72          | -        |
| 2437MHz                      | Pass   | AV   | 4.8713G      | 43.83             | 54.00             | -10.17         | 3           | Vertical   | 360            | 2.18          | -        |
| 2437MHz                      | Pass   | AV   | 7.3091G      | 44.40             | 54.00             | -9.60          | 3           | Vertical   | 284            | 1.09          | -        |
| 2437MHz                      | Pass   | PK   | 4.8741G      | 57.20             | 74.00             | -16.80         | 3           | Vertical   | 360            | 2.18          | -        |

Remark :

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$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA( Preamp Factor)}$$

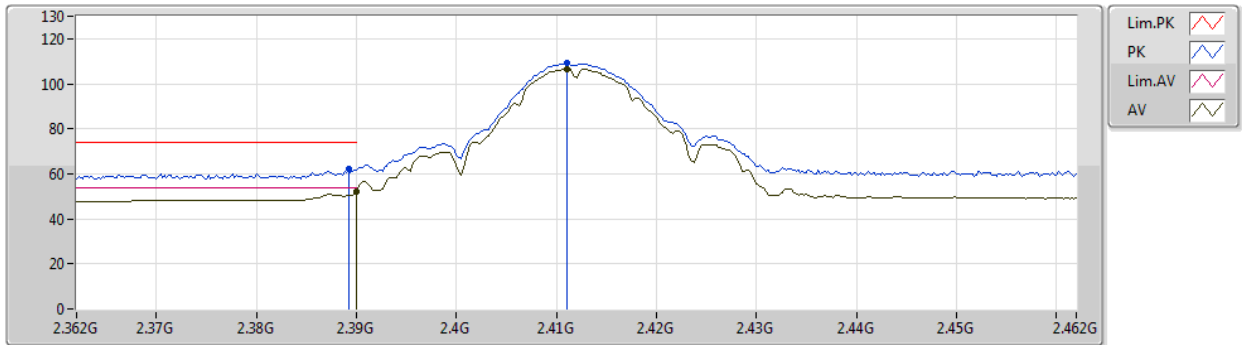
021914

| 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 |
|---------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2437MHz | Pass   | PK   | 7.3086G      | 56.46             | 74.00             | -17.54         | 3           | Vertical   | 284            | 1.09          | -        |
| 2437MHz | Pass   | AV   | 4.87372G     | 41.62             | 54.00             | -12.38         | 3           | Horizontal | 57             | 1.90          | -        |
| 2437MHz | Pass   | AV   | 7.31128G     | 44.93             | 54.00             | -9.07          | 3           | Horizontal | 232            | 1.48          | -        |
| 2437MHz | Pass   | PK   | 4.8716G      | 55.21             | 74.00             | -18.79         | 3           | Horizontal | 57             | 1.90          | -        |
| 2437MHz | Pass   | PK   | 7.30682G     | 56.09             | 74.00             | -17.91         | 3           | Horizontal | 232            | 1.48          | -        |
| 2457MHz | Pass   | AV   | 2.4564G      | 101.51            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.81          | -        |
| 2457MHz | Pass   | AV   | 2.4842G      | 53.16             | 54.00             | -0.84          | 3           | Vertical   | 0              | 2.81          | -        |
| 2457MHz | Pass   | PK   | 2.4554G      | 110.29            | Inf               | -Inf           | 3           | Vertical   | 0              | 2.81          | -        |
| 2457MHz | Pass   | PK   | 2.4836G      | 67.51             | 74.00             | -6.49          | 3           | Vertical   | 0              | 2.81          | -        |
| 2457MHz | Pass   | AV   | 2.4562G      | 96.69             | Inf               | -Inf           | 3           | Horizontal | 311            | 1.53          | -        |
| 2457MHz | Pass   | AV   | 2.4844G      | 51.18             | 54.00             | -2.82          | 3           | Horizontal | 311            | 1.53          | -        |
| 2457MHz | Pass   | PK   | 2.4552G      | 106.66            | Inf               | -Inf           | 3           | Horizontal | 311            | 1.53          | -        |
| 2457MHz | Pass   | PK   | 2.4836G      | 63.22             | 74.00             | -10.78         | 3           | Horizontal | 311            | 1.53          | -        |
| 2462MHz | Pass   | AV   | 2.4626G      | 99.68             | Inf               | -Inf           | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz | Pass   | AV   | 2.4838G      | 53.15             | 54.00             | -0.85          | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz | Pass   | PK   | 2.4598G      | 107.97            | Inf               | -Inf           | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz | Pass   | PK   | 2.4852G      | 71.39             | 74.00             | -2.61          | 3           | Vertical   | 360            | 2.80          | -        |
| 2462MHz | Pass   | AV   | 2.4626G      | 94.96             | Inf               | -Inf           | 3           | Horizontal | 311            | 1.39          | -        |
| 2462MHz | Pass   | AV   | 2.4848G      | 50.93             | 54.00             | -3.07          | 3           | Horizontal | 311            | 1.39          | -        |
| 2462MHz | Pass   | PK   | 2.4596G      | 103.86            | Inf               | -Inf           | 3           | Horizontal | 311            | 1.39          | -        |
| 2462MHz | Pass   | PK   | 2.4856G      | 65.51             | 74.00             | -8.49          | 3           | Horizontal | 311            | 1.39          | -        |
| 2462MHz | Pass   | AV   | 4.92622G     | 36.29             | 54.00             | -17.71         | 3           | Vertical   | 80             | 2.15          | -        |
| 2462MHz | Pass   | PK   | 4.9227G      | 48.19             | 74.00             | -25.81         | 3           | Vertical   | 80             | 2.15          | -        |
| 2462MHz | Pass   | AV   | 4.92436G     | 35.26             | 54.00             | -18.74         | 3           | Horizontal | 223            | 2.39          | -        |
| 2462MHz | Pass   | PK   | 4.92858G     | 47.20             | 74.00             | -26.80         | 3           | Horizontal | 223            | 2.39          | -        |

## 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

### 2412MHz\_TX

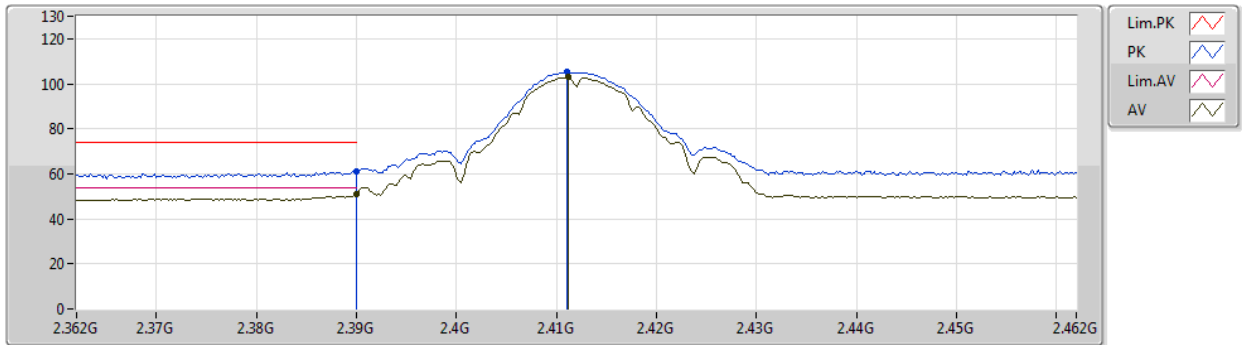


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 52.25             | 54.00             | -1.75          | 33.60          | 3           | Vertical  | 0              | 2.83          | -       | 18.65         | 29.60      | 4.00       | -          |
| AV   | 2.411G       | 106.67            | Inf               | -Inf           | 33.74          | 3           | Vertical  | 0              | 2.83          | -       | 72.93         | 29.72      | 4.02       | -          |
| PK   | 2.3892G      | 62.02             | 74.00             | -11.98         | 33.59          | 3           | Vertical  | 0              | 2.83          | -       | 28.43         | 29.59      | 4.00       | -          |
| PK   | 2.411G       | 109.02            | Inf               | -Inf           | 33.74          | 3           | Vertical  | 0              | 2.83          | -       | 75.28         | 29.72      | 4.02       | -          |

## 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

### 2412MHz\_TX

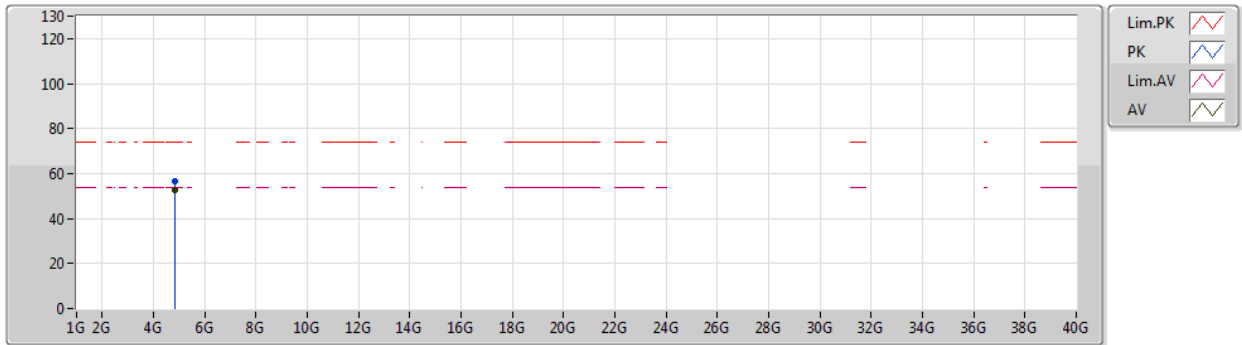


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.09             | 54.00             | -2.91          | 33.60          | 3           | Horizontal | 314            | 1.50          | -       | 17.49         | 29.60      | 4.00       | -          |
| AV   | 2.4112G      | 102.86            | Inf               | -Inf           | 33.74          | 3           | Horizontal | 314            | 1.50          | -       | 69.12         | 29.72      | 4.02       | -          |
| PK   | 2.39G        | 60.95             | 74.00             | -13.05         | 33.60          | 3           | Horizontal | 314            | 1.50          | -       | 27.35         | 29.60      | 4.00       | -          |
| PK   | 2.411G       | 105.21            | Inf               | -Inf           | 33.74          | 3           | Horizontal | 314            | 1.50          | -       | 71.47         | 29.72      | 4.02       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2412MHz\_TX

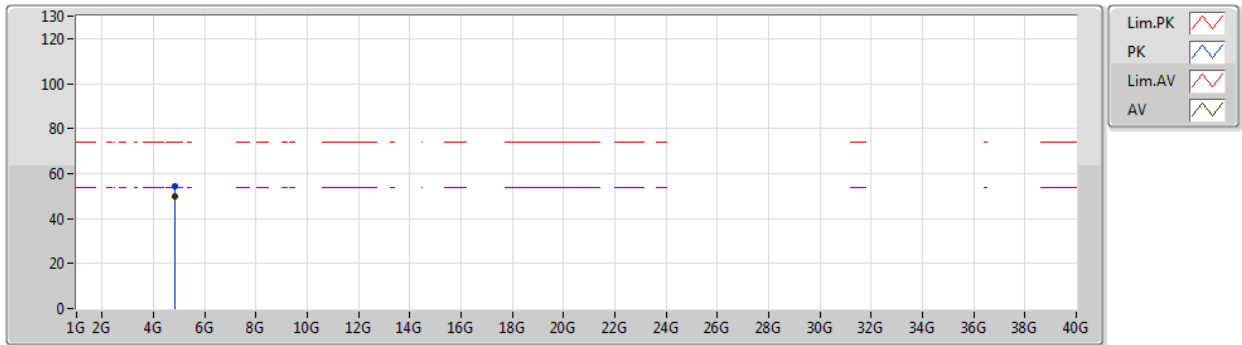


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8239G      | 52.75             | 54.00             | -1.25          | 10.04          | 3           | Vertical  | 357            | 2.36          | -       | 42.71         | 33.65      | 5.79       | 29.40      |
| PK   | 4.8239G      | 56.35             | 74.00             | -17.65         | 10.04          | 3           | Vertical  | 357            | 2.36          | -       | 46.31         | 33.65      | 5.79       | 29.40      |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2412MHz\_TX

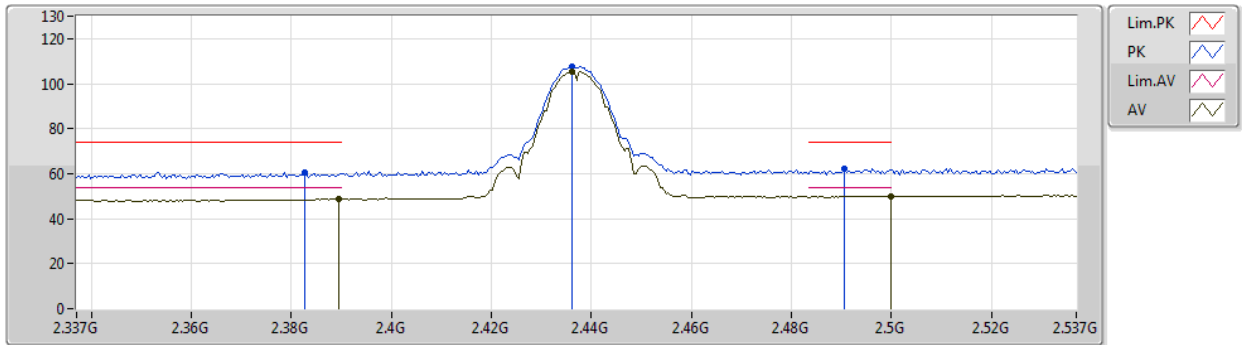


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.82388G     | 49.68             | 54.00             | -4.32          | 10.04          | 3           | Horizontal | 317            | 1.23          | -       | 39.64         | 33.65      | 5.79       | 29.40      |
| PK   | 4.8239G      | 54.59             | 74.00             | -19.41         | 10.04          | 3           | Horizontal | 317            | 1.23          | -       | 44.55         | 33.65      | 5.79       | 29.40      |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

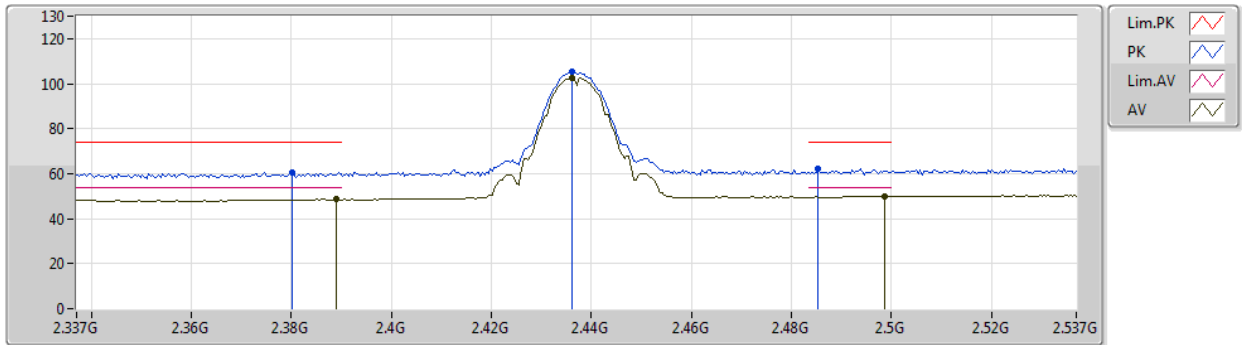


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3894G      | 48.57             | 54.00             | -5.43          | 33.59          | 3           | Vertical  | 0              | 2.78          | -       | 14.98         | 29.59      | 4.00       | -          |
| AV   | 2.4362G      | 105.29            | Inf               | -Inf           | 33.81          | 3           | Vertical  | 0              | 2.78          | -       | 71.48         | 29.77      | 4.04       | -          |
| AV   | 2.4998G      | 49.98             | 54.00             | -4.02          | 34.30          | 3           | Vertical  | 0              | 2.78          | -       | 15.68         | 30.20      | 4.10       | -          |
| PK   | 2.3826G      | 60.58             | 74.00             | -13.42         | 33.52          | 3           | Vertical  | 0              | 2.78          | -       | 27.06         | 29.53      | 3.99       | -          |
| PK   | 2.4362G      | 107.69            | Inf               | -Inf           | 33.81          | 3           | Vertical  | 0              | 2.78          | -       | 73.88         | 29.77      | 4.04       | -          |
| PK   | 2.4906G      | 62.38             | 74.00             | -11.62         | 34.21          | 3           | Vertical  | 0              | 2.78          | -       | 28.17         | 30.12      | 4.09       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

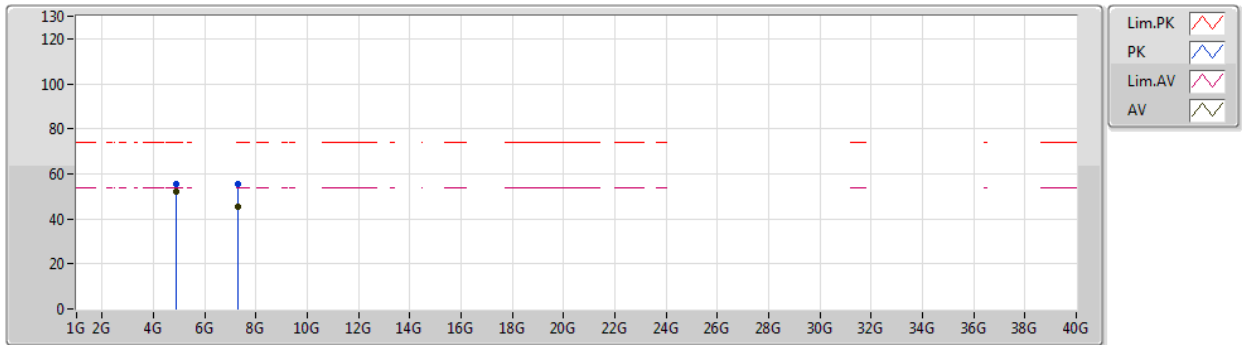


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.389G       | 48.57             | 54.00             | -5.43          | 33.59          | 3           | Horizontal | 39             | 2.72          | -       | 14.98         | 29.59      | 4.00       | -          |
| AV   | 2.4362G      | 102.67            | Inf               | -Inf           | 33.81          | 3           | Horizontal | 39             | 2.72          | -       | 68.86         | 29.77      | 4.04       | -          |
| AV   | 2.4986G      | 49.97             | 54.00             | -4.03          | 34.29          | 3           | Horizontal | 39             | 2.72          | -       | 15.68         | 30.19      | 4.10       | -          |
| PK   | 2.3802G      | 60.62             | 74.00             | -13.38         | 33.49          | 3           | Horizontal | 39             | 2.72          | -       | 27.13         | 29.50      | 3.99       | -          |
| PK   | 2.4362G      | 105.09            | Inf               | -Inf           | 33.81          | 3           | Horizontal | 39             | 2.72          | -       | 71.28         | 29.77      | 4.04       | -          |
| PK   | 2.4854G      | 62.34             | 74.00             | -11.66         | 34.17          | 3           | Horizontal | 39             | 2.72          | -       | 28.17         | 30.08      | 4.09       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

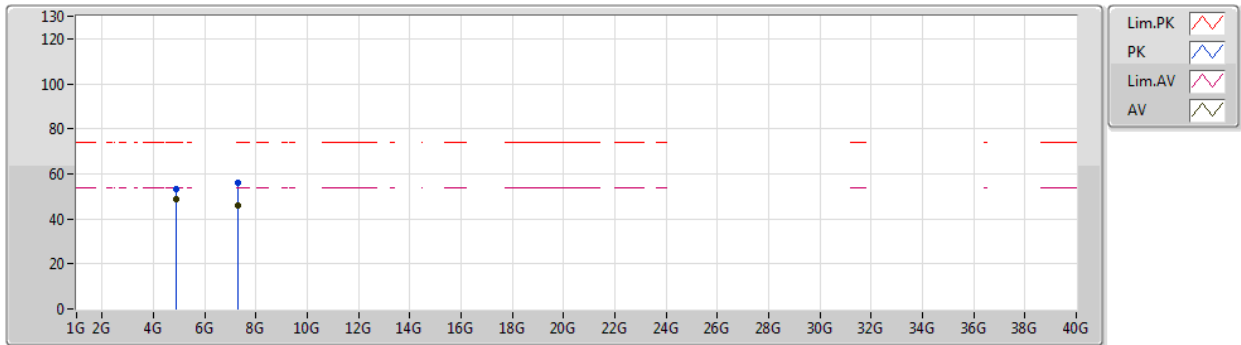


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87388G     | 52.23             | 54.00             | -1.77          | 10.20          | 3           | Vertical  | 360            | 2.44          | -       | 42.03         | 33.75      | 5.83       | 29.38      |
| AV   | 7.30988G     | 45.31             | 54.00             | -8.69          | 16.04          | 3           | Vertical  | 180            | 1.94          | -       | 29.27         | 38.92      | 7.48       | 30.36      |
| PK   | 4.87388G     | 55.48             | 74.00             | -18.52         | 10.20          | 3           | Vertical  | 360            | 2.44          | -       | 45.28         | 33.75      | 5.83       | 29.38      |
| PK   | 7.30976G     | 55.43             | 74.00             | -18.57         | 16.04          | 3           | Vertical  | 180            | 1.94          | -       | 39.39         | 38.92      | 7.48       | 30.36      |

## 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

### 2437MHz\_TX

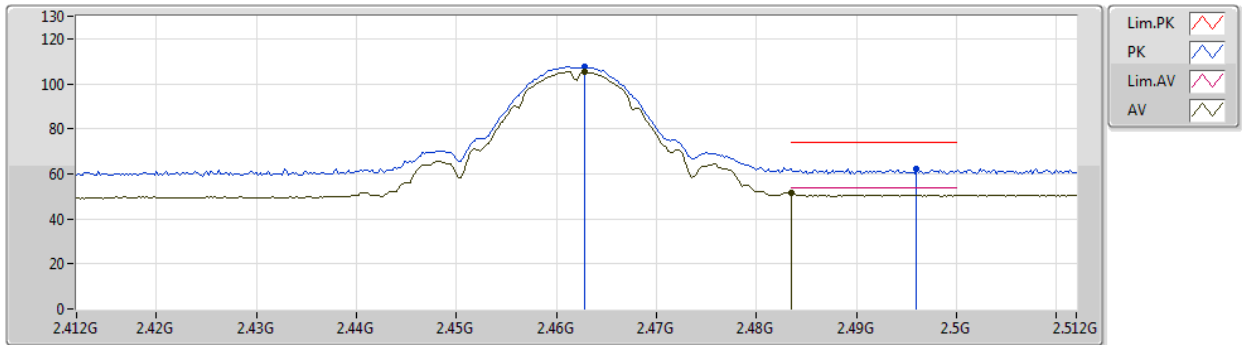


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87392G     | 48.76             | 54.00             | -5.24          | 10.20          | 3           | Horizontal | 113            | 2.22          | -       | 38.56         | 33.75      | 5.83       | 29.38      |
| AV   | 7.31G        | 45.86             | 54.00             | -8.14          | 16.04          | 3           | Horizontal | 11             | 1.00          | -       | 29.82         | 38.92      | 7.48       | 30.36      |
| PK   | 4.87392G     | 53.15             | 74.00             | -20.85         | 10.20          | 3           | Horizontal | 113            | 2.22          | -       | 42.95         | 33.75      | 5.83       | 29.38      |
| PK   | 7.3106G      | 55.95             | 74.00             | -18.05         | 16.04          | 3           | Horizontal | 11             | 1.00          | -       | 39.91         | 38.92      | 7.48       | 30.36      |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

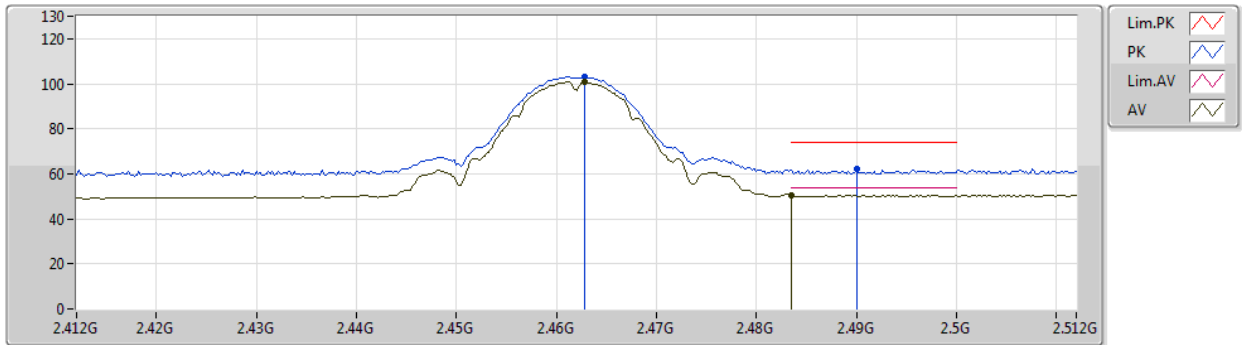


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4628G      | 105.27            | Inf               | -Inf           | 33.97          | 3           | Vertical  | 359            | 2.80          | -       | 71.30         | 29.90      | 4.07       | -          |
| AV   | 2.4835G      | 51.64             | 54.00             | -2.36          | 34.15          | 3           | Vertical  | 359            | 2.80          | -       | 17.49         | 30.07      | 4.08       | -          |
| PK   | 2.4628G      | 107.60            | Inf               | -Inf           | 33.97          | 3           | Vertical  | 359            | 2.80          | -       | 73.63         | 29.90      | 4.07       | -          |
| PK   | 2.496G       | 62.38             | 74.00             | -11.62         | 34.27          | 3           | Vertical  | 359            | 2.80          | -       | 28.11         | 30.17      | 4.10       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

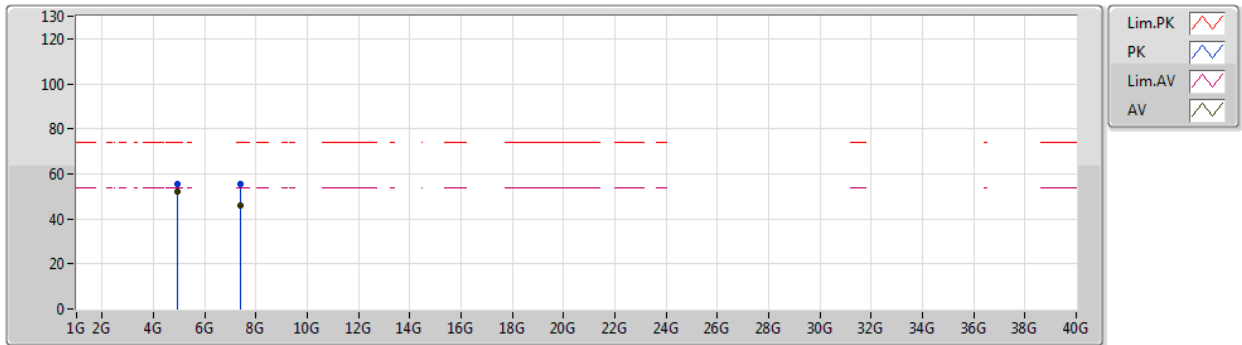


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4628G      | 100.72            | Inf               | -Inf           | 33.97          | 3           | Horizontal | 343            | 1.01          | -       | 66.75         | 29.90      | 4.07       | -          |
| AV   | 2.4835G      | 50.65             | 54.00             | -3.35          | 34.15          | 3           | Horizontal | 343            | 1.01          | -       | 16.50         | 30.07      | 4.08       | -          |
| PK   | 2.4628G      | 103.07            | Inf               | -Inf           | 33.97          | 3           | Horizontal | 343            | 1.01          | -       | 69.10         | 29.90      | 4.07       | -          |
| PK   | 2.49G        | 62.24             | 74.00             | -11.76         | 34.21          | 3           | Horizontal | 343            | 1.01          | -       | 28.03         | 30.12      | 4.09       | -          |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

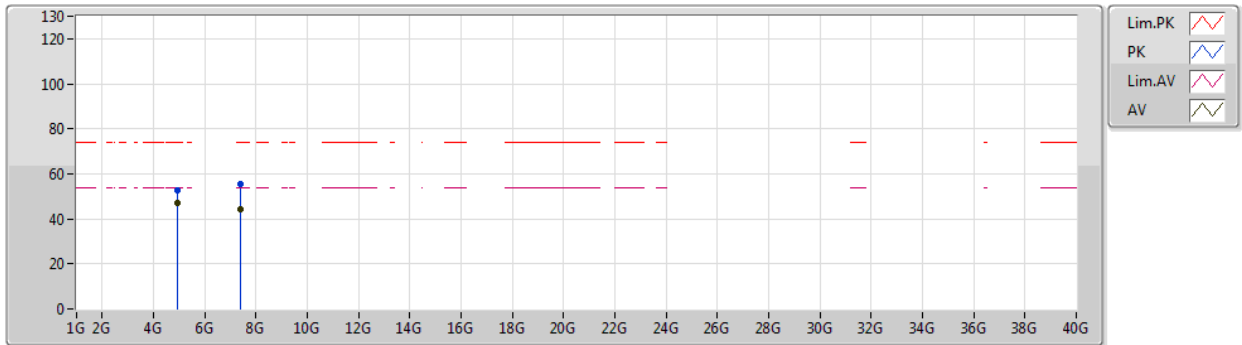


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92384G     | 52.03             | 54.00             | -1.97          | 10.36          | 3           | Vertical  | 354            | 2.10          | -       | 41.67         | 33.85      | 5.87       | 29.36      |
| AV   | 7.38484G     | 46.04             | 54.00             | -7.96          | 15.85          | 3           | Vertical  | 284            | 1.04          | -       | 30.19         | 38.93      | 7.34       | 30.42      |
| PK   | 4.92388G     | 55.64             | 74.00             | -18.36         | 10.36          | 3           | Vertical  | 354            | 2.10          | -       | 45.28         | 33.85      | 5.87       | 29.36      |
| PK   | 7.38636G     | 55.32             | 74.00             | -18.68         | 15.85          | 3           | Vertical  | 284            | 1.04          | -       | 39.47         | 38.93      | 7.34       | 30.42      |

# 802.11b\_Nss1,(1Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

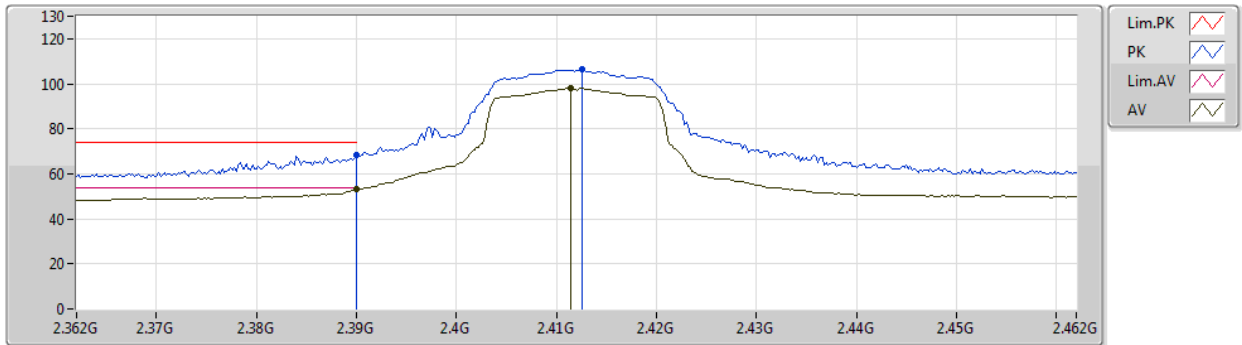


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92392G     | 47.34             | 54.00             | -6.66          | 10.37          | 3           | Horizontal | 283            | 1.01          | -       | 36.97         | 33.85      | 5.87       | 29.35      |
| AV   | 7.385G       | 44.11             | 54.00             | -9.89          | 15.85          | 3           | Horizontal | 0              | 1.02          | -       | 28.26         | 38.93      | 7.34       | 30.42      |
| PK   | 4.92388G     | 52.58             | 74.00             | -21.42         | 10.36          | 3           | Horizontal | 283            | 1.01          | -       | 42.22         | 33.85      | 5.87       | 29.36      |
| PK   | 7.38664G     | 55.29             | 74.00             | -18.71         | 15.85          | 3           | Horizontal | 0              | 1.02          | -       | 39.44         | 38.93      | 7.34       | 30.42      |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2412MHz\_TX

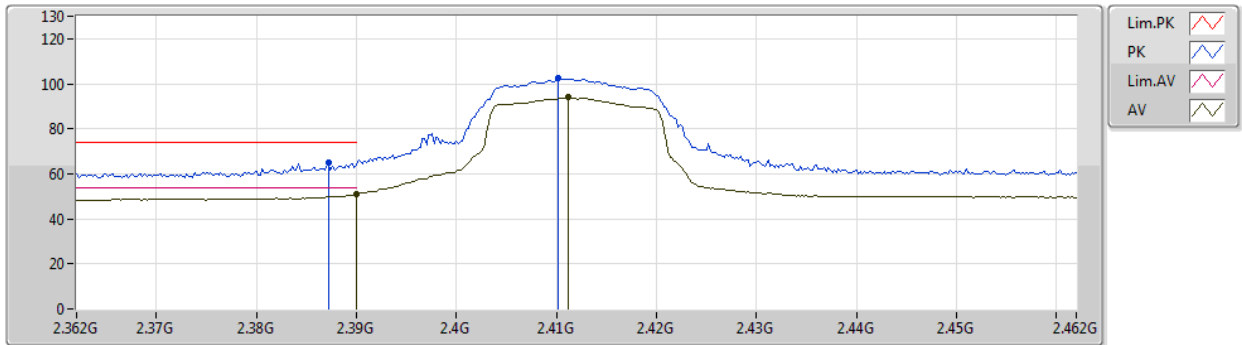


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 53.20             | 54.00             | -0.80          | 33.60          | 3           | Vertical  | 0              | 2.82          | -       | 19.60         | 29.60      | 4.00       | -          |
| AV   | 2.4114G      | 98.10             | Inf               | -Inf           | 33.74          | 3           | Vertical  | 0              | 2.82          | -       | 64.36         | 29.72      | 4.02       | -          |
| PK   | 2.39G        | 68.10             | 74.00             | -5.90          | 33.60          | 3           | Vertical  | 0              | 2.82          | -       | 34.50         | 29.60      | 4.00       | -          |
| PK   | 2.4126G      | 106.45            | Inf               | -Inf           | 33.75          | 3           | Vertical  | 0              | 2.82          | -       | 72.70         | 29.73      | 4.02       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2412MHz\_TX

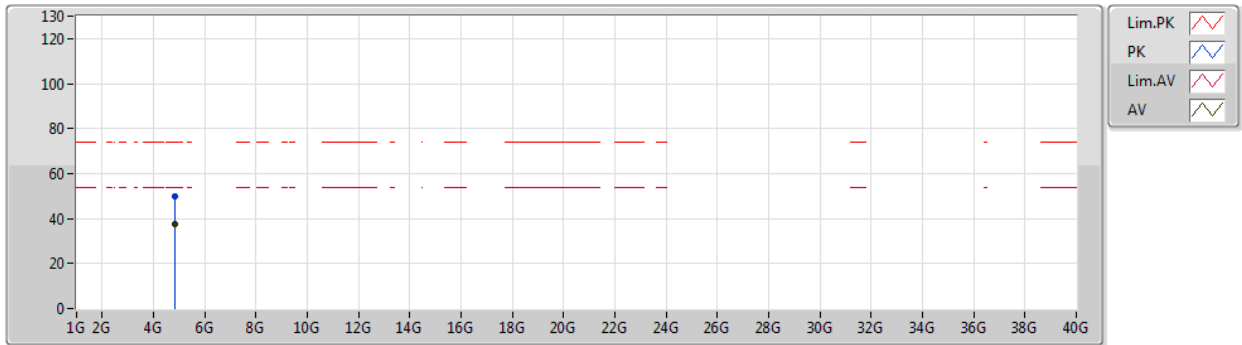


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.09             | 54.00             | -2.91          | 33.60          | 3           | Horizontal | 312            | 1.66          | -       | 17.49         | 29.60      | 4.00       | -          |
| AV   | 2.4112G      | 94.04             | Inf               | -Inf           | 33.74          | 3           | Horizontal | 312            | 1.66          | -       | 60.30         | 29.72      | 4.02       | -          |
| PK   | 2.3872G      | 64.87             | 74.00             | -9.13          | 33.56          | 3           | Horizontal | 312            | 1.66          | -       | 31.31         | 29.57      | 3.99       | -          |
| PK   | 2.4102G      | 102.29            | Inf               | -Inf           | 33.74          | 3           | Horizontal | 312            | 1.66          | -       | 68.55         | 29.72      | 4.02       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

### 2412MHz\_TX

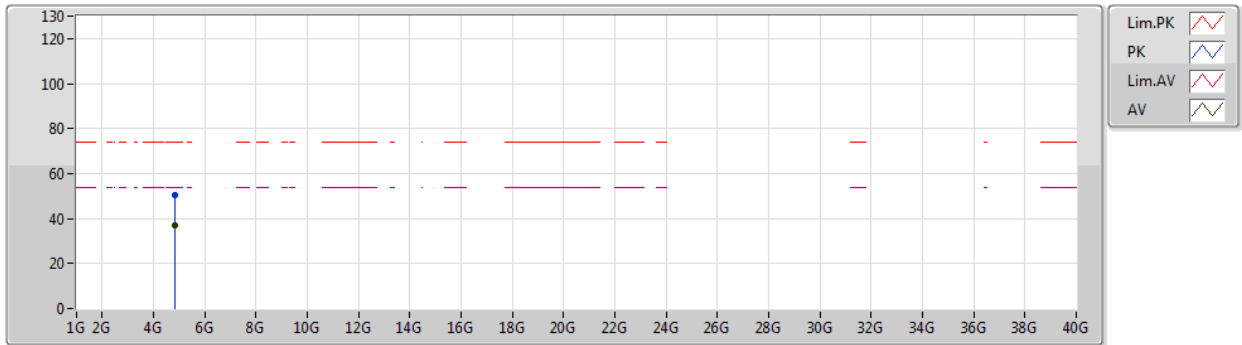


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8275G      | 37.42             | 54.00             | -16.58         | 10.06          | 3           | Vertical  | 357            | 2.10          | -       | 27.36         | 33.66      | 5.80       | 29.40      |
| PK   | 4.8276G      | 49.84             | 74.00             | -24.16         | 10.06          | 3           | Vertical  | 357            | 2.10          | -       | 39.78         | 33.66      | 5.80       | 29.40      |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2412MHz\_TX

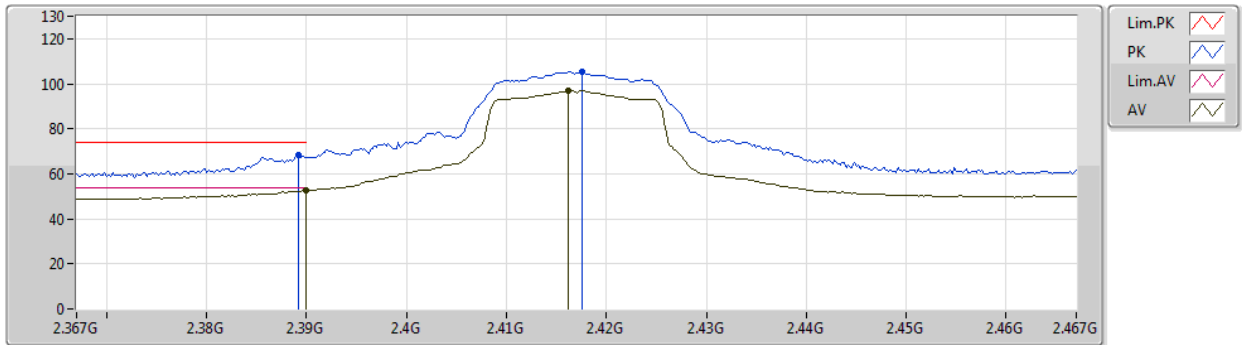


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.82396G     | 36.87             | 54.00             | -17.13         | 10.04          | 3           | Horizontal | 349            | 2.19          | -       | 26.83         | 33.65      | 5.79       | 29.40      |
| PK   | 4.82632G     | 50.18             | 74.00             | -23.82         | 10.04          | 3           | Horizontal | 349            | 2.19          | -       | 40.14         | 33.65      | 5.79       | 29.40      |

## 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

### 2417MHz\_TX

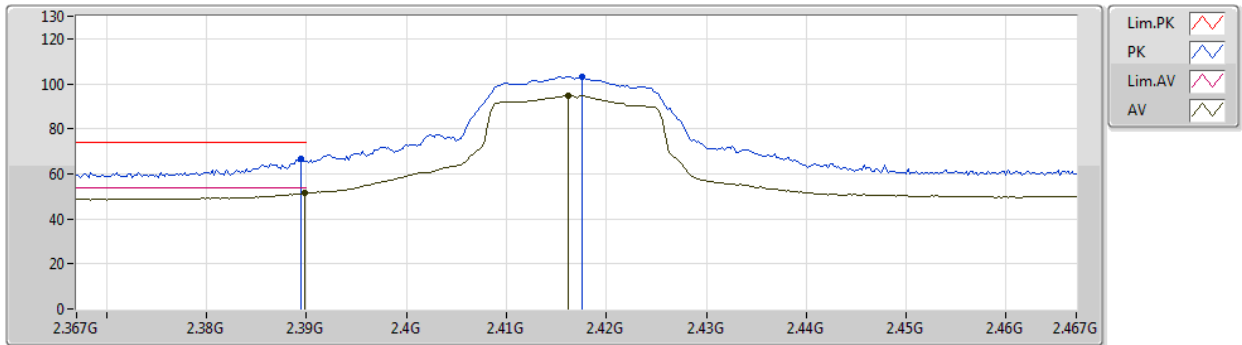


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 52.67             | 54.00             | -1.33          | 33.60          | 3           | Vertical  | 246            | 1.02          | -       | 19.07         | 29.60      | 4.00       | -          |
| AV   | 2.4162G      | 97.01             | Inf               | -Inf           | 33.75          | 3           | Vertical  | 246            | 1.02          | -       | 63.26         | 29.73      | 4.02       | -          |
| PK   | 2.3892G      | 68.21             | 74.00             | -5.79          | 33.59          | 3           | Vertical  | 246            | 1.02          | -       | 34.62         | 29.59      | 4.00       | -          |
| PK   | 2.4176G      | 105.38            | Inf               | -Inf           | 33.76          | 3           | Vertical  | 246            | 1.02          | -       | 71.62         | 29.74      | 4.02       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

### 2417MHz\_TX

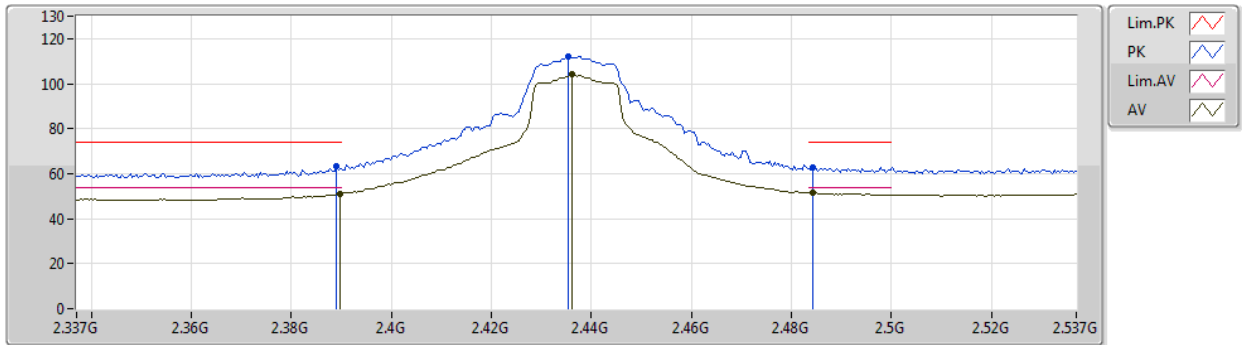


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 51.30             | 54.00             | -2.70          | 33.60          | 3           | Horizontal | 314            | 1.50          | -       | 17.70         | 29.60      | 4.00       | -          |
| AV   | 2.4162G      | 94.88             | Inf               | -Inf           | 33.75          | 3           | Horizontal | 314            | 1.50          | -       | 61.13         | 29.73      | 4.02       | -          |
| PK   | 2.3894G      | 66.56             | 74.00             | -7.44          | 33.59          | 3           | Horizontal | 314            | 1.50          | -       | 32.97         | 29.59      | 4.00       | -          |
| PK   | 2.4176G      | 103.11            | Inf               | -Inf           | 33.76          | 3           | Horizontal | 314            | 1.50          | -       | 69.35         | 29.74      | 4.02       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

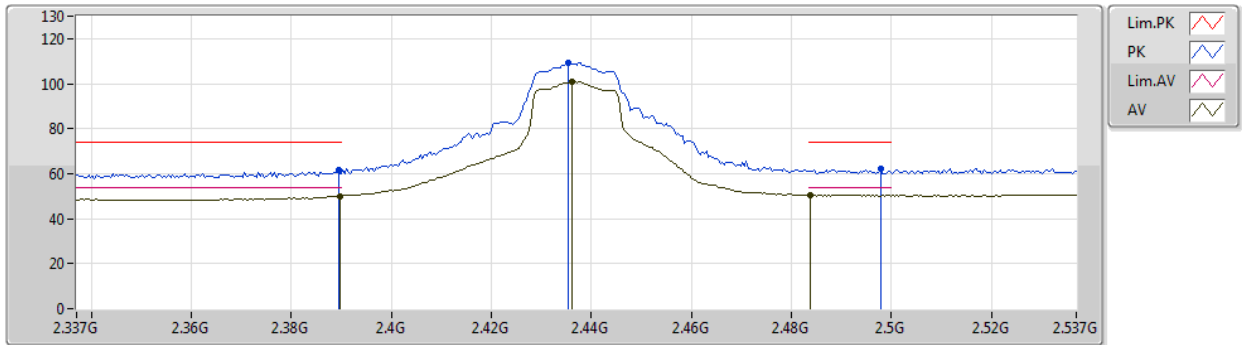


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 51.08             | 54.00             | -2.92          | 33.60          | 3           | Vertical  | 0              | 2.77          | -       | 17.48         | 29.60      | 4.00       | -          |
| AV   | 2.4362G      | 103.97            | Inf               | -Inf           | 33.81          | 3           | Vertical  | 0              | 2.77          | -       | 70.16         | 29.77      | 4.04       | -          |
| AV   | 2.4842G      | 51.65             | 54.00             | -2.35          | 34.16          | 3           | Vertical  | 0              | 2.77          | -       | 17.49         | 30.07      | 4.09       | -          |
| PK   | 2.389G       | 63.07             | 74.00             | -10.93         | 33.59          | 3           | Vertical  | 0              | 2.77          | -       | 29.48         | 29.59      | 4.00       | -          |
| PK   | 2.4354G      | 112.07            | Inf               | -Inf           | 33.81          | 3           | Vertical  | 0              | 2.77          | -       | 78.26         | 29.77      | 4.04       | -          |
| PK   | 2.4842G      | 62.86             | 74.00             | -11.14         | 34.16          | 3           | Vertical  | 0              | 2.77          | -       | 28.70         | 30.07      | 4.09       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

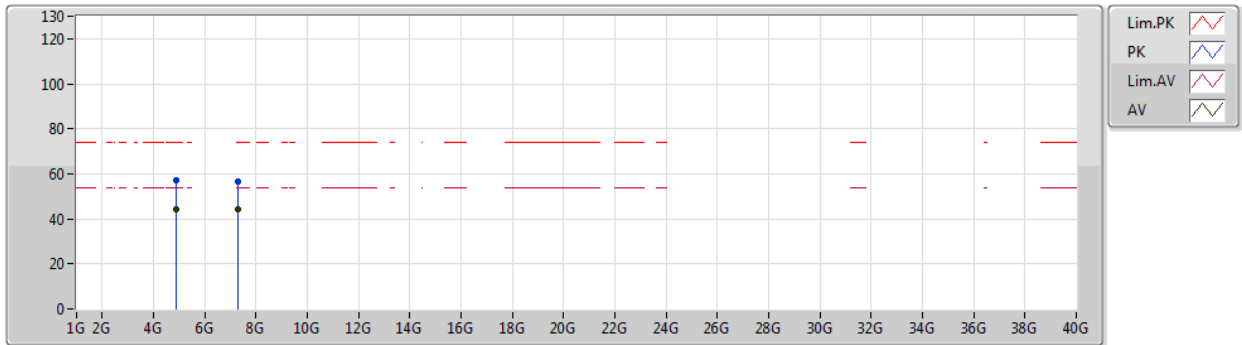


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 49.93             | 54.00             | -4.07          | 33.60          | 3           | Horizontal | 40             | 2.73          | -       | 16.33         | 29.60      | 4.00       | -          |
| AV   | 2.4362G      | 101.14            | Inf               | -Inf           | 33.81          | 3           | Horizontal | 40             | 2.73          | -       | 67.33         | 29.77      | 4.04       | -          |
| AV   | 2.4838G      | 50.65             | 54.00             | -3.35          | 34.15          | 3           | Horizontal | 40             | 2.73          | -       | 16.50         | 30.07      | 4.08       | -          |
| PK   | 2.3894G      | 61.40             | 74.00             | -12.60         | 33.59          | 3           | Horizontal | 40             | 2.73          | -       | 27.81         | 29.59      | 4.00       | -          |
| PK   | 2.4354G      | 109.32            | Inf               | -Inf           | 33.81          | 3           | Horizontal | 40             | 2.73          | -       | 75.51         | 29.77      | 4.04       | -          |
| PK   | 2.4978G      | 61.96             | 74.00             | -12.04         | 34.28          | 3           | Horizontal | 40             | 2.73          | -       | 27.68         | 30.18      | 4.10       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

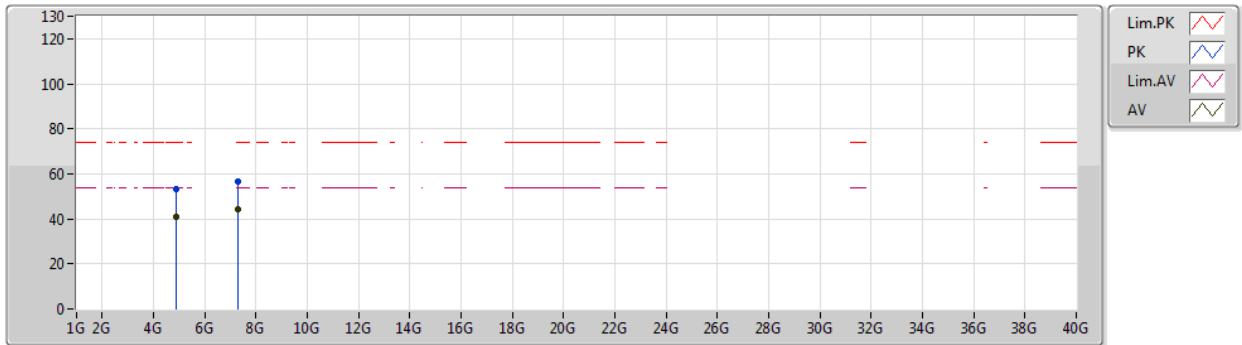


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8738G      | 44.50             | 54.00             | -9.50          | 10.20          | 3           | Vertical  | 359            | 2.44          | -       | 34.30         | 33.75      | 5.83       | 29.38      |
| AV   | 7.312G       | 44.08             | 54.00             | -9.92          | 16.04          | 3           | Vertical  | 177            | 2.04          | -       | 28.04         | 38.92      | 7.48       | 30.36      |
| PK   | 4.8732G      | 57.00             | 74.00             | -17.00         | 10.20          | 3           | Vertical  | 359            | 2.44          | -       | 46.80         | 33.75      | 5.83       | 29.38      |
| PK   | 7.3139G      | 56.73             | 74.00             | -17.27         | 16.04          | 3           | Vertical  | 177            | 2.04          | -       | 40.69         | 38.93      | 7.47       | 30.36      |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2437MHz\_TX

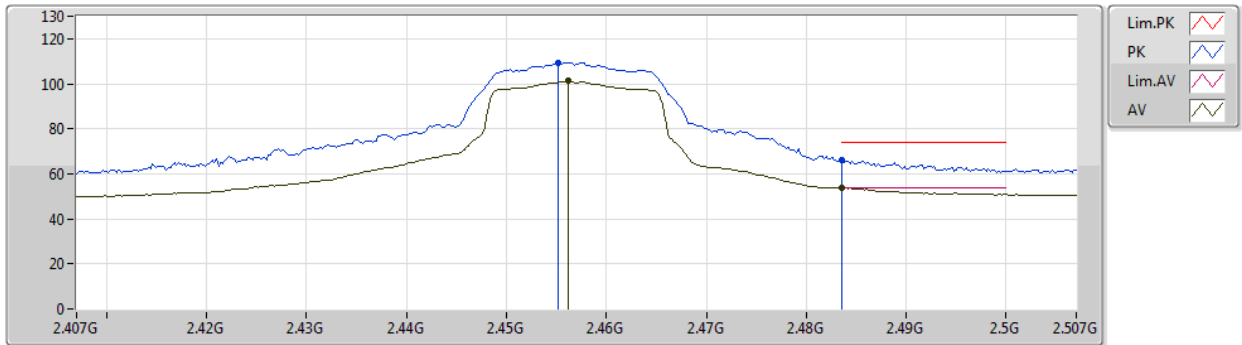


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8731G      | 40.98             | 54.00             | -13.02         | 10.20          | 3           | Horizontal | 321            | 1.00          | -       | 30.78         | 33.75      | 5.83       | 29.38      |
| AV   | 7.313G       | 44.41             | 54.00             | -9.59          | 16.04          | 3           | Horizontal | 10             | 1.00          | -       | 28.37         | 38.93      | 7.47       | 30.36      |
| PK   | 4.8729G      | 53.34             | 74.00             | -20.66         | 10.20          | 3           | Horizontal | 321            | 1.00          | -       | 43.14         | 33.75      | 5.83       | 29.38      |
| PK   | 7.3133G      | 56.84             | 74.00             | -17.16         | 16.04          | 3           | Horizontal | 10             | 1.00          | -       | 40.80         | 38.93      | 7.47       | 30.36      |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2457MHz\_TX

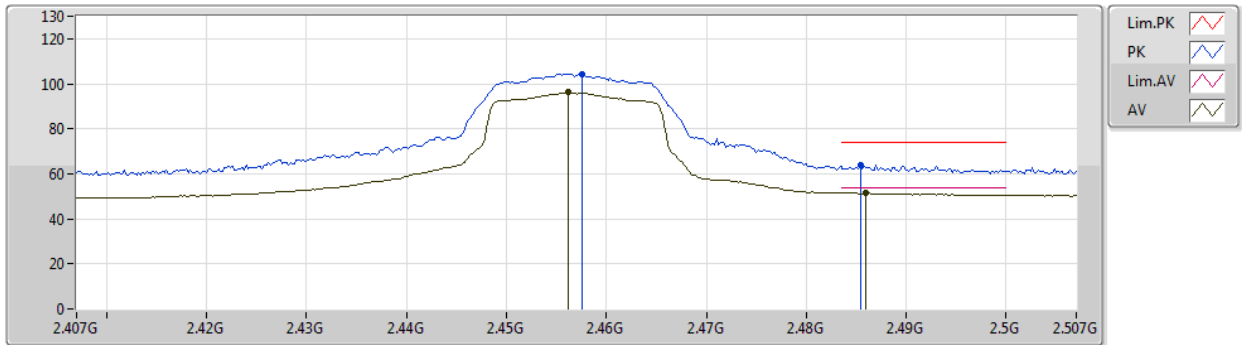


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4562G      | 101.26            | Inf               | -Inf           | 33.91          | 3           | Vertical  | 360            | 2.81          | -       | 67.35         | 29.85      | 4.06       | -          |
| AV   | 2.4836G      | 53.72             | 54.00             | -0.28          | 34.15          | 3           | Vertical  | 360            | 2.81          | -       | 19.57         | 30.07      | 4.08       | -          |
| PK   | 2.4552G      | 109.41            | Inf               | -Inf           | 33.90          | 3           | Vertical  | 360            | 2.81          | -       | 75.51         | 29.84      | 4.06       | -          |
| PK   | 2.4835G      | 66.30             | 74.00             | -7.70          | 34.15          | 3           | Vertical  | 360            | 2.81          | -       | 32.15         | 30.07      | 4.08       | -          |

## 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

### 2457MHz\_TX

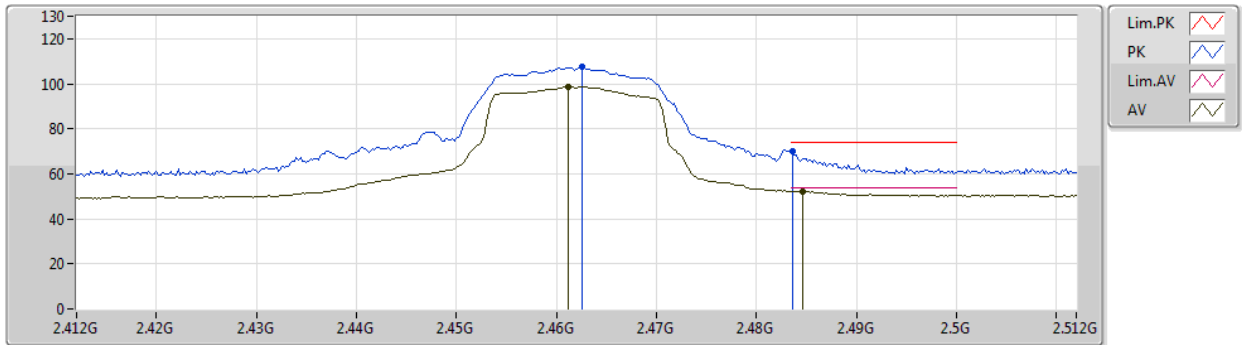


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4562G      | 96.24             | Inf               | -Inf           | 33.91          | 3           | Horizontal | 311            | 1.37          | -       | 62.33         | 29.85      | 4.06       | -          |
| AV   | 2.486G       | 51.43             | 54.00             | -2.57          | 34.18          | 3           | Horizontal | 311            | 1.37          | -       | 17.25         | 30.09      | 4.09       | -          |
| PK   | 2.4576G      | 104.43            | Inf               | -Inf           | 33.92          | 3           | Horizontal | 311            | 1.37          | -       | 70.51         | 29.86      | 4.06       | -          |
| PK   | 2.4854G      | 64.01             | 74.00             | -9.99          | 34.17          | 3           | Horizontal | 311            | 1.37          | -       | 29.84         | 30.08      | 4.09       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

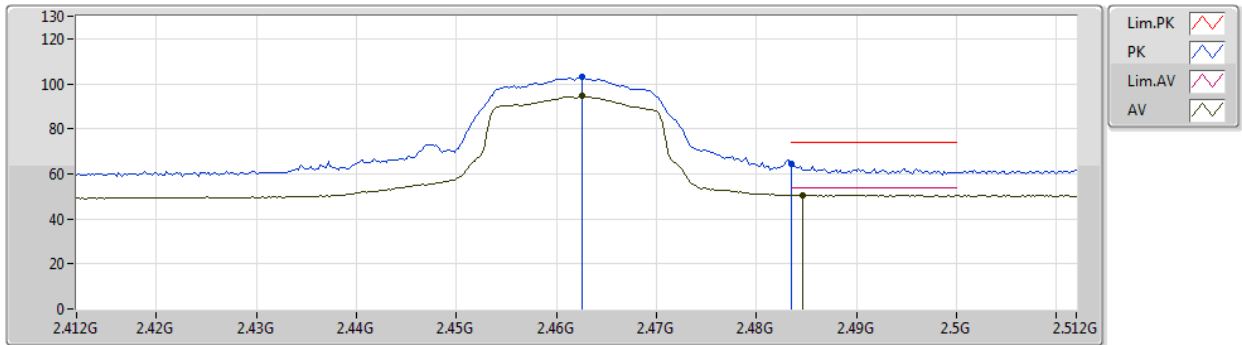
## 2462MHz\_TX



# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

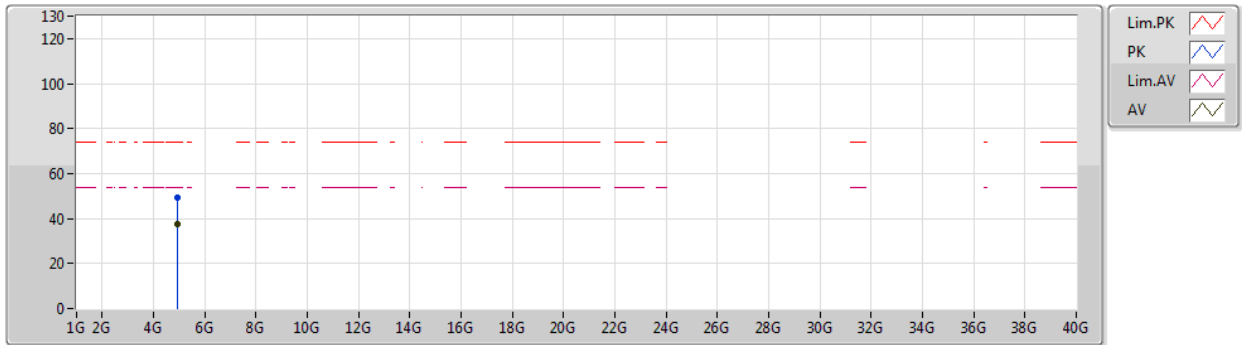


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4626G      | 94.45             | Inf               | -Inf           | 33.96          | 3           | Horizontal | 312            | 1.40          | -       | 60.49         | 29.90      | 4.06       | -          |
| AV   | 2.4846G      | 50.67             | 54.00             | -3.33          | 34.17          | 3           | Horizontal | 312            | 1.40          | -       | 16.50         | 30.08      | 4.09       | -          |
| PK   | 2.4626G      | 103.08            | Inf               | -Inf           | 33.96          | 3           | Horizontal | 312            | 1.40          | -       | 69.12         | 29.90      | 4.06       | -          |
| PK   | 2.4835G      | 64.53             | 74.00             | -9.47          | 34.15          | 3           | Horizontal | 312            | 1.40          | -       | 30.38         | 30.07      | 4.08       | -          |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

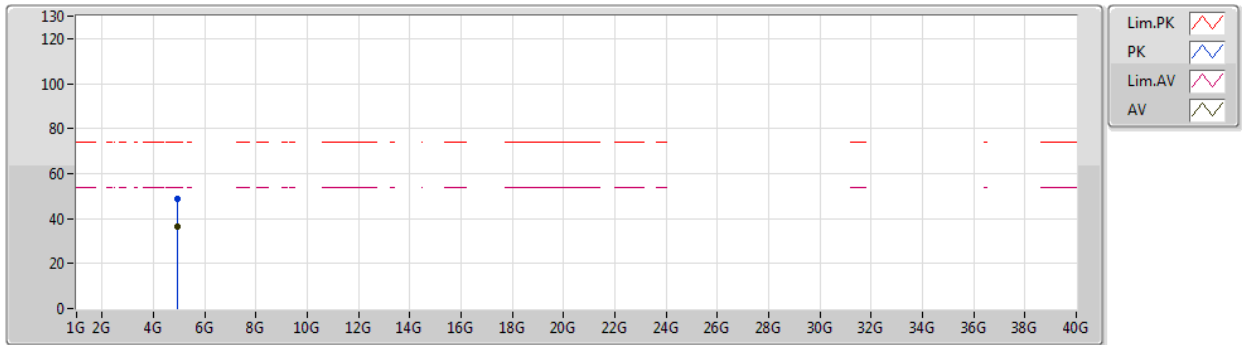


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92578G     | 37.55             | 54.00             | -16.45         | 10.37          | 3           | Vertical  | 297            | 1.32          | -       | 27.18         | 33.85      | 5.87       | 29.35      |
| PK   | 4.92318G     | 49.52             | 74.00             | -24.48         | 10.35          | 3           | Vertical  | 297            | 1.32          | -       | 39.17         | 33.85      | 5.86       | 29.36      |

# 802.11g\_Nss1,(6Mbps)\_1TX

22/03/2020

## 2462MHz\_TX

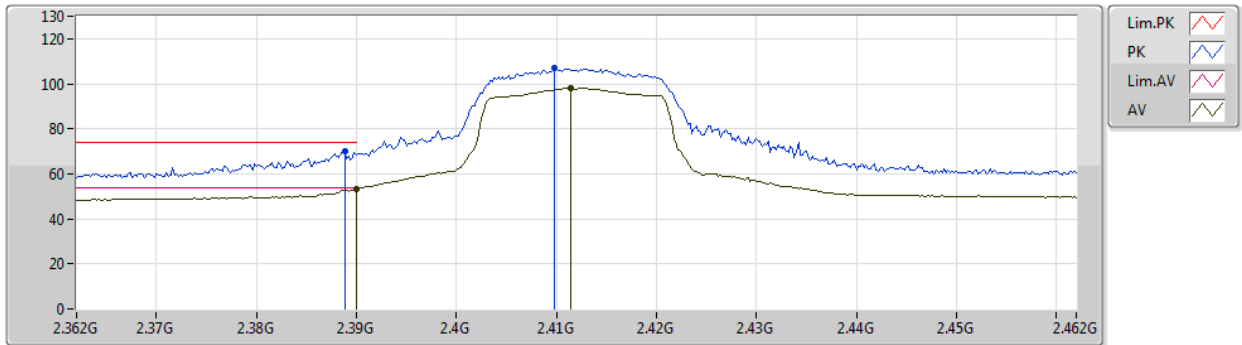


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92662G     | 36.43             | 54.00             | -17.57         | 10.37          | 3           | Horizontal | 138            | 2.06          | -       | 26.06         | 33.85      | 5.87       | 29.35      |
| PK   | 4.92672G     | 48.60             | 74.00             | -25.40         | 10.37          | 3           | Horizontal | 138            | 2.06          | -       | 38.23         | 33.85      | 5.87       | 29.35      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2412MHz\_TX

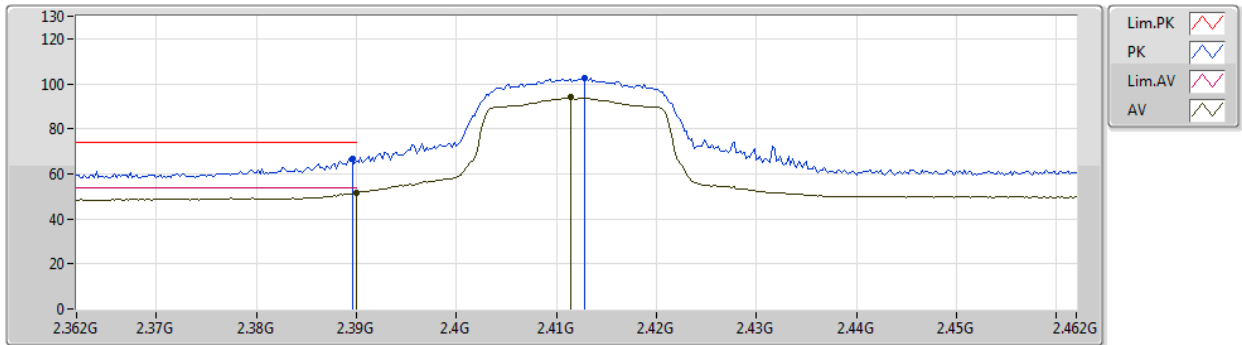


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 53.20             | 54.00             | -0.80          | 33.60          | 3           | Vertical  | 0              | 2.84          | -       | 19.60         | 29.60      | 4.00       | -          |
| AV   | 2.4114G      | 98.25             | Inf               | -Inf           | 33.74          | 3           | Vertical  | 0              | 2.84          | -       | 64.51         | 29.72      | 4.02       | -          |
| PK   | 2.3888G      | 70.32             | 74.00             | -3.68          | 33.59          | 3           | Vertical  | 0              | 2.84          | -       | 36.73         | 29.59      | 4.00       | -          |
| PK   | 2.4098G      | 106.89            | Inf               | -Inf           | 33.74          | 3           | Vertical  | 0              | 2.84          | -       | 73.15         | 29.72      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2412MHz\_TX

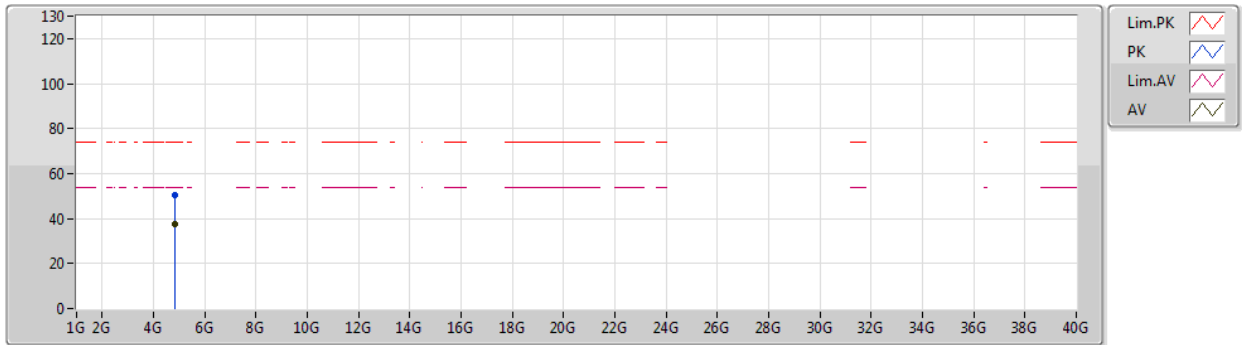


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.51             | 54.00             | -2.49          | 33.60          | 3           | Horizontal | 314            | 1.50          | -       | 17.91         | 29.60      | 4.00       | -          |
| AV   | 2.4114G      | 93.94             | Inf               | -Inf           | 33.74          | 3           | Horizontal | 314            | 1.50          | -       | 60.20         | 29.72      | 4.02       | -          |
| PK   | 2.3896G      | 66.71             | 74.00             | -7.29          | 33.60          | 3           | Horizontal | 314            | 1.50          | -       | 33.11         | 29.60      | 4.00       | -          |
| PK   | 2.4128G      | 102.65            | Inf               | -Inf           | 33.75          | 3           | Horizontal | 314            | 1.50          | -       | 68.90         | 29.73      | 4.02       | -          |

# 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2412MHz\_TX

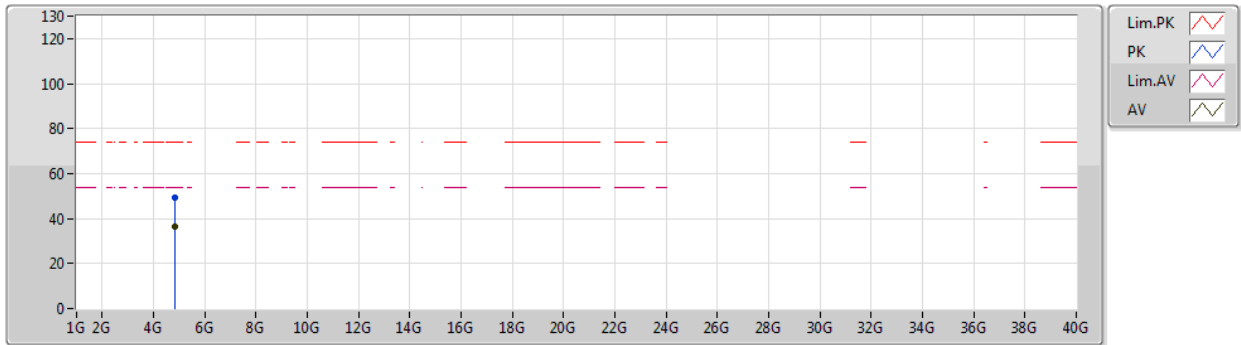


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8236G      | 37.64             | 54.00             | -16.36         | 10.04          | 3           | Vertical  | 360            | 2.35          | -       | 27.60         | 33.65      | 5.79       | 29.40      |
| PK   | 4.8206G      | 50.19             | 74.00             | -23.81         | 10.03          | 3           | Vertical  | 360            | 2.35          | -       | 40.16         | 33.64      | 5.79       | 29.40      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2412MHz\_TX

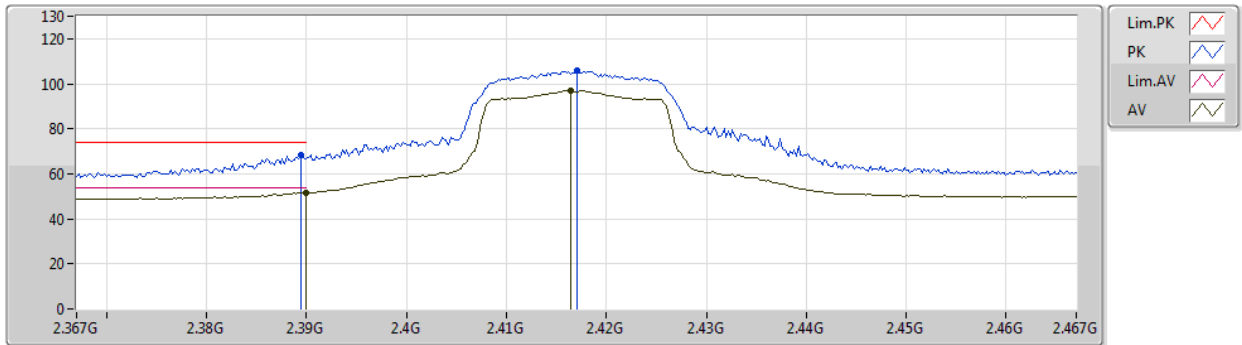


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8248G      | 36.53             | 54.00             | -17.47         | 10.04          | 3           | Horizontal | 133            | 1.02          | -       | 26.49         | 33.65      | 5.79       | 29.40      |
| PK   | 4.82268G     | 49.55             | 74.00             | -24.45         | 10.04          | 3           | Horizontal | 133            | 1.02          | -       | 39.51         | 33.65      | 5.79       | 29.40      |

# 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2417MHz\_TX

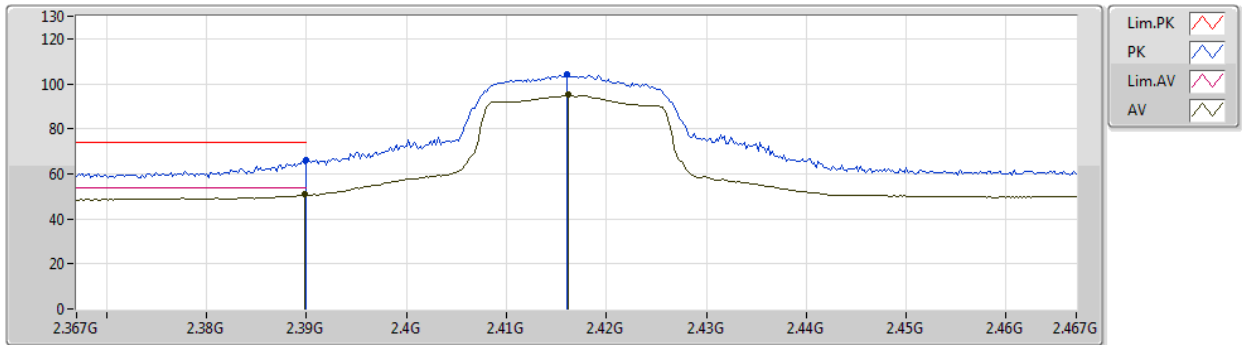


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.51             | 54.00             | -2.49          | 33.60          | 3           | Vertical  | 247            | 1.02          | -       | 17.91         | 29.60      | 4.00       | -          |
| AV   | 2.4164G      | 97.03             | Inf               | -Inf           | 33.75          | 3           | Vertical  | 247            | 1.02          | -       | 63.28         | 29.73      | 4.02       | -          |
| PK   | 2.3894G      | 68.09             | 74.00             | -5.91          | 33.59          | 3           | Vertical  | 247            | 1.02          | -       | 34.50         | 29.59      | 4.00       | -          |
| PK   | 2.417G       | 105.71            | Inf               | -Inf           | 33.75          | 3           | Vertical  | 247            | 1.02          | -       | 71.96         | 29.73      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2417MHz\_TX

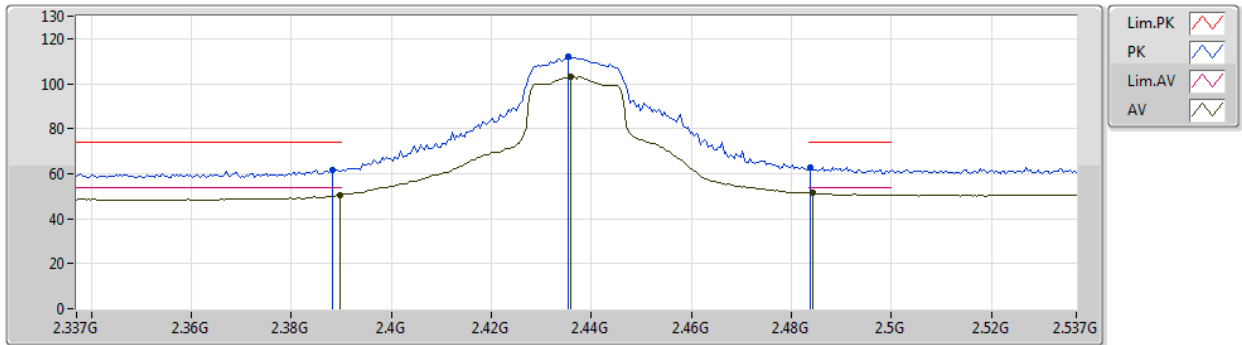


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 50.86             | 54.00             | -3.14          | 33.60          | 3           | Horizontal | 313            | 1.50          | -       | 17.26         | 29.60      | 4.00       | -          |
| AV   | 2.4162G      | 95.15             | Inf               | -Inf           | 33.75          | 3           | Horizontal | 313            | 1.50          | -       | 61.40         | 29.73      | 4.02       | -          |
| PK   | 2.39G        | 65.93             | 74.00             | -8.07          | 33.60          | 3           | Horizontal | 313            | 1.50          | -       | 32.33         | 29.60      | 4.00       | -          |
| PK   | 2.416G       | 104.39            | Inf               | -Inf           | 33.75          | 3           | Horizontal | 313            | 1.50          | -       | 70.64         | 29.73      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2437MHz\_TX

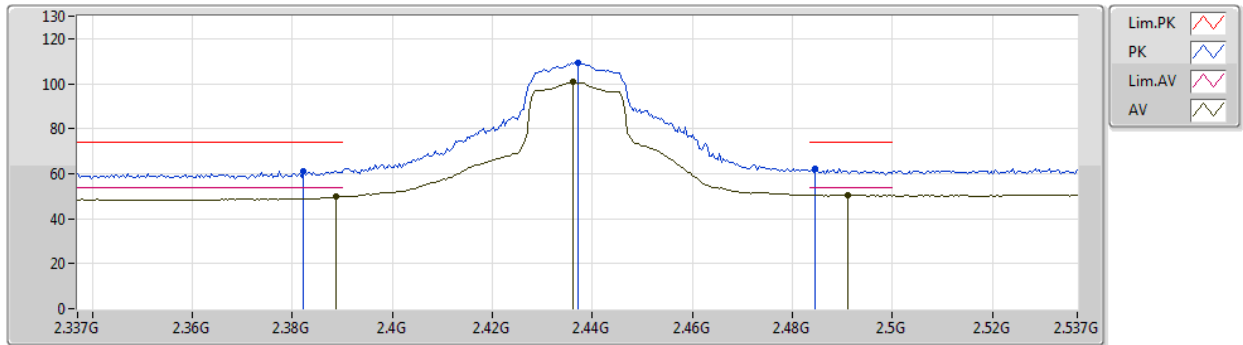


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 50.64             | 54.00             | -3.36          | 33.60          | 3           | Vertical  | 10             | 2.78          | -       | 17.04         | 29.60      | 4.00       | -          |
| AV   | 2.4358G      | 103.25            | Inf               | -Inf           | 33.81          | 3           | Vertical  | 10             | 2.78          | -       | 69.44         | 29.77      | 4.04       | -          |
| AV   | 2.4842G      | 51.41             | 54.00             | -2.59          | 34.16          | 3           | Vertical  | 10             | 2.78          | -       | 17.25         | 30.07      | 4.09       | -          |
| PK   | 2.3882G      | 61.69             | 74.00             | -12.31         | 33.57          | 3           | Vertical  | 10             | 2.78          | -       | 28.12         | 29.58      | 3.99       | -          |
| PK   | 2.4354G      | 112.14            | Inf               | -Inf           | 33.81          | 3           | Vertical  | 10             | 2.78          | -       | 78.33         | 29.77      | 4.04       | -          |
| PK   | 2.4838G      | 62.85             | 74.00             | -11.15         | 34.15          | 3           | Vertical  | 10             | 2.78          | -       | 28.70         | 30.07      | 4.08       | -          |

# 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2437MHz\_TX

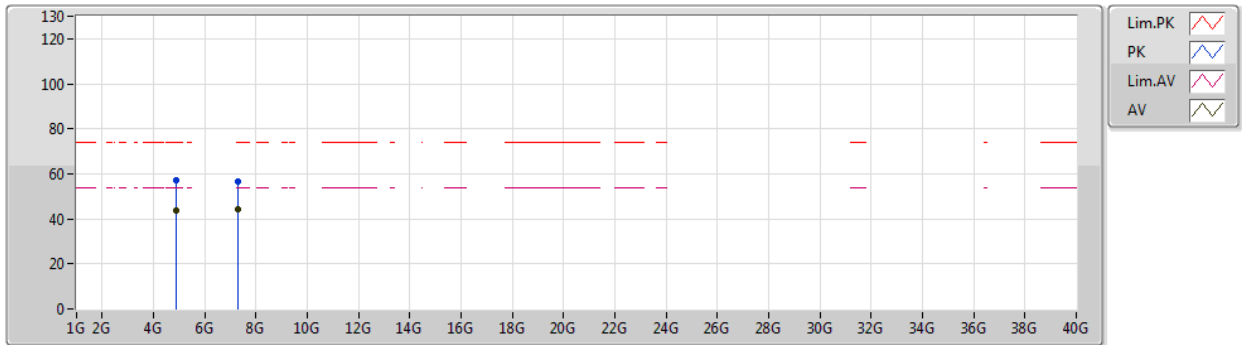


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3886G      | 49.90             | 54.00             | -4.10          | 33.59          | 3           | Horizontal | 40             | 2.72          | -       | 16.31         | 29.59      | 4.00       | -          |
| AV   | 2.4362G      | 100.76            | Inf               | -Inf           | 33.81          | 3           | Horizontal | 40             | 2.72          | -       | 66.95         | 29.77      | 4.04       | -          |
| AV   | 2.491G       | 50.46             | 54.00             | -3.54          | 34.22          | 3           | Horizontal | 40             | 2.72          | -       | 16.24         | 30.13      | 4.09       | -          |
| PK   | 2.3822G      | 61.12             | 74.00             | -12.88         | 33.51          | 3           | Horizontal | 40             | 2.72          | -       | 27.61         | 29.52      | 3.99       | -          |
| PK   | 2.437G       | 109.43            | Inf               | -Inf           | 33.81          | 3           | Horizontal | 40             | 2.72          | -       | 75.62         | 29.77      | 4.04       | -          |
| PK   | 2.4846G      | 62.34             | 74.00             | -11.66         | 34.17          | 3           | Horizontal | 40             | 2.72          | -       | 28.17         | 30.08      | 4.09       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2437MHz\_TX

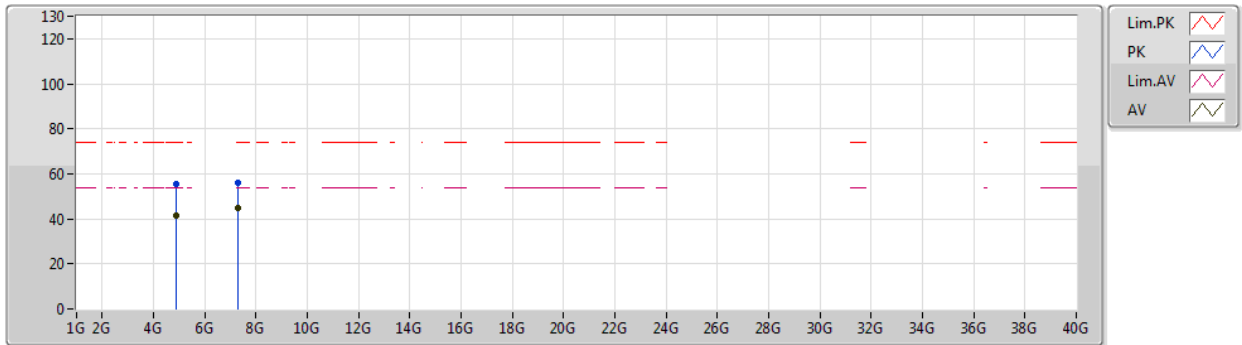


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8713G      | 43.83             | 54.00             | -10.17         | 10.19          | 3           | Vertical  | 360            | 2.18          | -       | 33.64         | 33.74      | 5.83       | 29.38      |
| AV   | 7.3091G      | 44.40             | 54.00             | -9.60          | 16.04          | 3           | Vertical  | 284            | 1.09          | -       | 28.36         | 38.92      | 7.48       | 30.36      |
| PK   | 4.8741G      | 57.20             | 74.00             | -16.80         | 10.20          | 3           | Vertical  | 360            | 2.18          | -       | 47.00         | 33.75      | 5.83       | 29.38      |
| PK   | 7.3086G      | 56.46             | 74.00             | -17.54         | 16.04          | 3           | Vertical  | 284            | 1.09          | -       | 40.42         | 38.92      | 7.48       | 30.36      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2437MHz\_TX

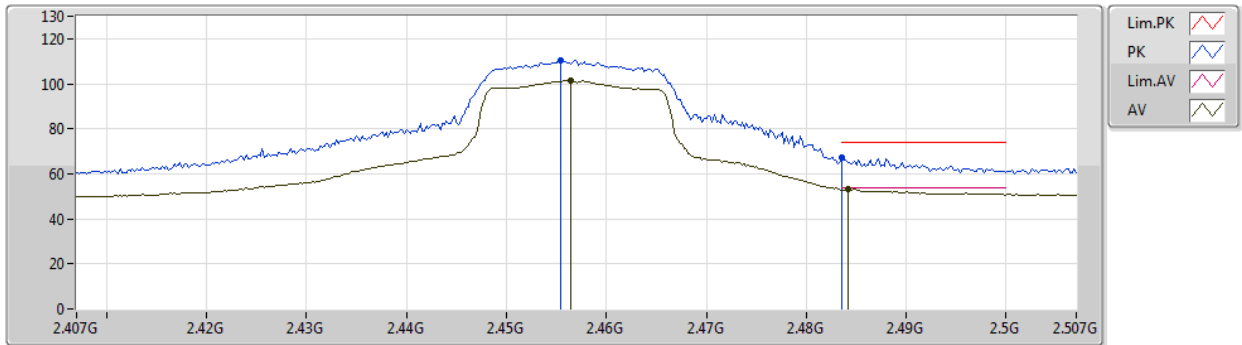


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87372G     | 41.62             | 54.00             | -12.38         | 10.20          | 3           | Horizontal | 57             | 1.90          | -       | 31.42         | 33.75      | 5.83       | 29.38      |
| AV   | 7.31128G     | 44.93             | 54.00             | -9.07          | 16.04          | 3           | Horizontal | 232            | 1.48          | -       | 28.89         | 38.92      | 7.48       | 30.36      |
| PK   | 4.8716G      | 55.21             | 74.00             | -18.79         | 10.19          | 3           | Horizontal | 57             | 1.90          | -       | 45.02         | 33.74      | 5.83       | 29.38      |
| PK   | 7.30682G     | 56.09             | 74.00             | -17.91         | 16.05          | 3           | Horizontal | 232            | 1.48          | -       | 40.04         | 38.91      | 7.49       | 30.35      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2457MHz\_TX

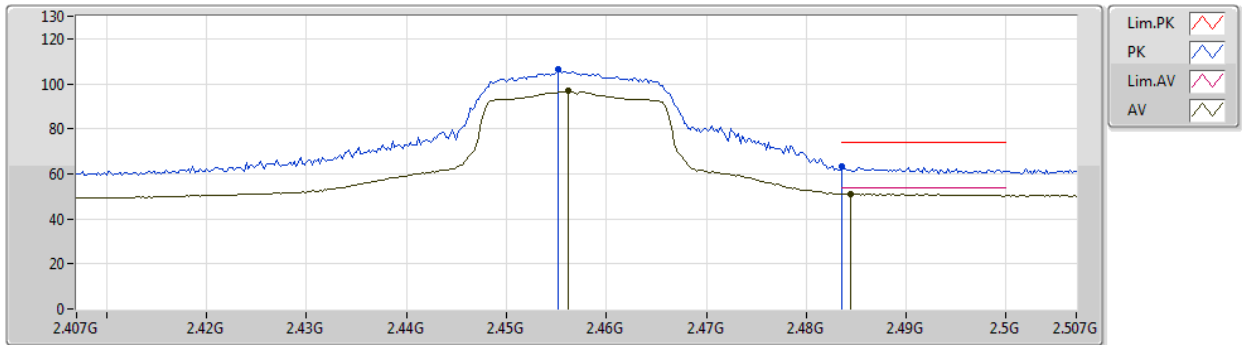


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4564G      | 101.51            | Inf               | -Inf           | 33.91          | 3           | Vertical  | 0              | 2.81          | -       | 67.60         | 29.85      | 4.06       | -          |
| AV   | 2.4842G      | 53.16             | 54.00             | -0.84          | 34.16          | 3           | Vertical  | 0              | 2.81          | -       | 19.00         | 30.07      | 4.09       | -          |
| PK   | 2.4554G      | 110.29            | Inf               | -Inf           | 33.90          | 3           | Vertical  | 0              | 2.81          | -       | 76.39         | 29.84      | 4.06       | -          |
| PK   | 2.4836G      | 67.51             | 74.00             | -6.49          | 34.15          | 3           | Vertical  | 0              | 2.81          | -       | 33.36         | 30.07      | 4.08       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2457MHz\_TX

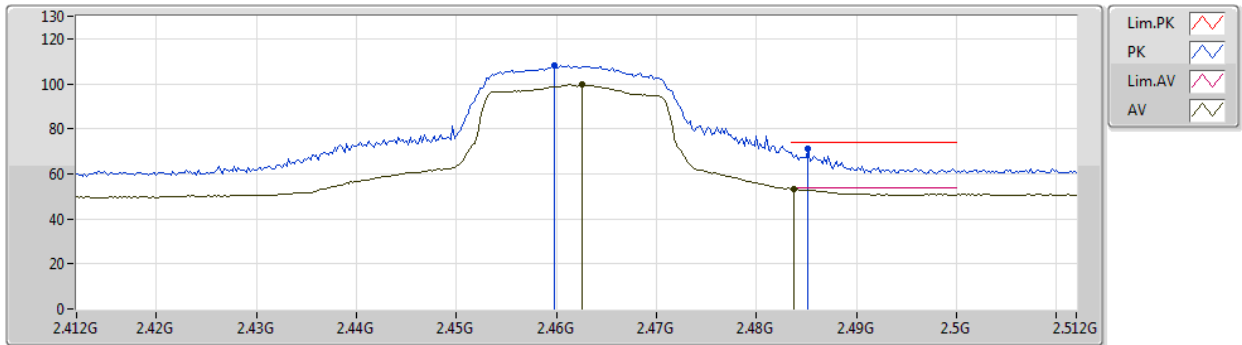


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4562G      | 96.69             | Inf               | -Inf           | 33.91          | 3           | Horizontal | 311            | 1.53          | -       | 62.78         | 29.85      | 4.06       | -          |
| AV   | 2.4844G      | 51.18             | 54.00             | -2.82          | 34.17          | 3           | Horizontal | 311            | 1.53          | -       | 17.01         | 30.08      | 4.09       | -          |
| PK   | 2.4552G      | 106.66            | Inf               | -Inf           | 33.90          | 3           | Horizontal | 311            | 1.53          | -       | 72.76         | 29.84      | 4.06       | -          |
| PK   | 2.4836G      | 63.22             | 74.00             | -10.78         | 34.15          | 3           | Horizontal | 311            | 1.53          | -       | 29.07         | 30.07      | 4.08       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

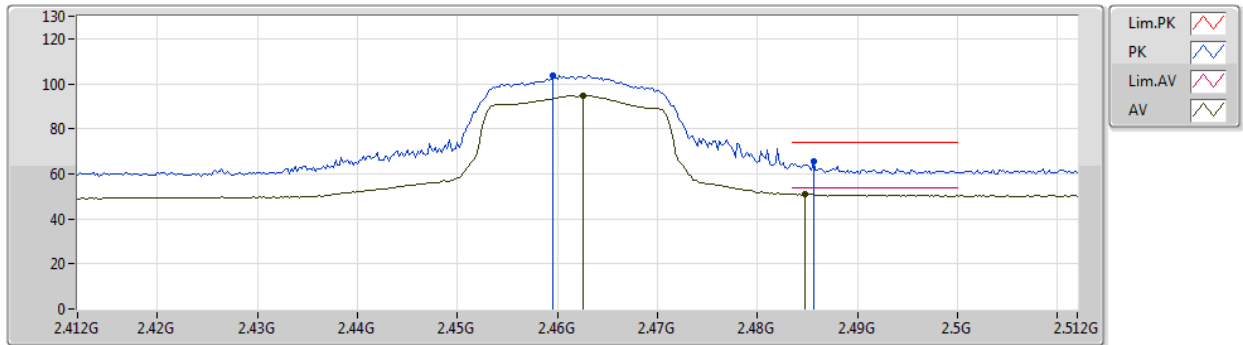
## 2462MHz\_TX



# 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

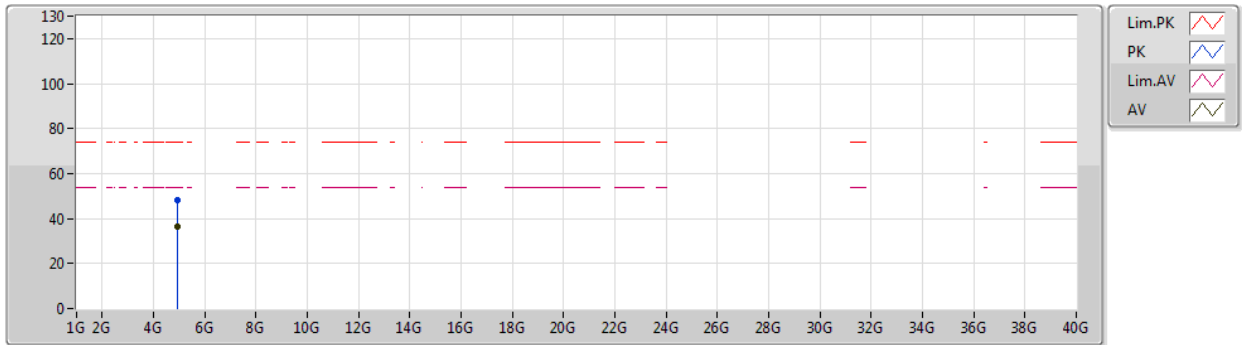
## 2462MHz\_TX



## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

### 2462MHz\_TX

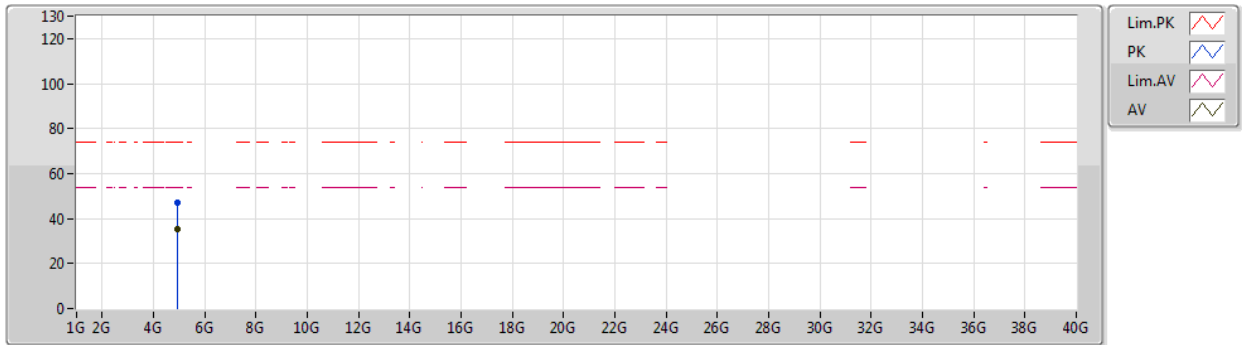


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92622G     | 36.29             | 54.00             | -17.71         | 10.37          | 3           | Vertical  | 80             | 2.15          | -       | 25.92         | 33.85      | 5.87       | 29.35      |
| PK   | 4.9227G      | 48.19             | 74.00             | -25.81         | 10.35          | 3           | Vertical  | 80             | 2.15          | -       | 37.84         | 33.85      | 5.86       | 29.36      |

## 802.11n HT20\_Nss1,(MCS0)\_1TX

22/03/2020

## 2462MHz\_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   | 4.92436G     | 35.26             | 54.00             | -18.74         | 10.37          | 3           | Horizontal | 223            | 2.39          | -       | 24.89         | 33.85      | 5.87       | 29.35      |
| PK   | 4.92858G     | 47.20             | 74.00             | -26.80         | 10.38          | 3           | Horizontal | 223            | 2.39          | -       | 36.82         | 33.86      | 5.87       | 29.35      |