

# FCC Test Report

FCC ID : PPQ-3509R38BT  
Equipment : 802.11a/b/g/n 2Tx2R + BT5.0 USB WLAN Module  
Brand Name : LITE-ON  
Model Name : WCBN3509R(38BT)  
Applicant : Lite-On Technology Corp.  
Bldg. C, 90, Chien 1 Road, Chung Ho, New  
Taipei City 23585, Taiwan, R.O.C  
Manufacturer : LITE-ON TECHNOLOGY (Changzhou) CO., LTD  
A9 Building, No. 88 Yanghu Road, Wujin Hi-Tech  
Industrial Development Zone, Changzhou City,  
Jiangsu Province 213100 China  
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 24, 2019, and testing was started from Oct. 31, 2019 and completed on Nov. 27, 2019. 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:** Kate Lo

# 1 General Description

## 1.1 Information

### 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]      |
| 2400-2483.5           | n (HT40)         | 2422-2452           | 3-9 [7]        |

| Band          | Mode         | BWch (MHz) | Nant |
|---------------|--------------|------------|------|
| 2.4-2.4835GHz | 802.11b      | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11g      | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT20 | 20         | 2TX  |
| 2.4-2.4835GHz | 802.11n HT40 | 40         | 2TX  |

**Note:**

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 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 | Support | Remark  |
|------|--------|---------------------|--------------|-----------|---------|---------|
| 1    | HONGBO | 290-10569           | PIFA         | I-Pex     | 2.4G+5G | Group 1 |
| 2    | HONGBO | 290-10569           | PIFA         | I-Pex     | 2.4G+5G |         |
| 3    | HONGBO | 290-10569           | PIFA         | I-Pex     | BT      |         |
| 4    | PSA    | RFMTA401030IML B702 | PIFA         | I-Pex     | 2.4G+5G | Group 2 |
| 5    | PSA    | RFMTA401030IML B702 | PIFA         | I-Pex     | 2.4G+5G |         |
| 6    | PSA    | RFMTA401030IML B702 | PIFA         | I-Pex     | BT      |         |
| 7    | HONGBO | 290-10843           | PIFA         | I-Pex     | 2.4G+5G | Group 3 |
| 8    | HONGBO | 290-10843           | PIFA         | I-Pex     | 2.4G+5G |         |
| 9    | HONGBO | 290-10843           | PIFA         | I-Pex     | BT      |         |
| 10   | PSA    | RFMTA401050IML B706 | PIFA         | I-Pex     | 2.4G+5G | Group 4 |
| 11   | PSA    | RFMTA401050IML B706 | PIFA         | I-Pex     | 2.4G+5G |         |
| 12   | PSA    | RFMTA401050IML B706 | PIFA         | I-Pex     | BT      |         |
| 13   | HONGBO | 290-10844           | PIFA         | I-Pex     | 2.4G+5G | Group 5 |
| 14   | HONGBO | 290-10844           | PIFA         | I-Pex     | 2.4G+5G |         |

| Ant. | Brand  | Model Name             | Antenna Type | Connector | Support | Remark  |
|------|--------|------------------------|--------------|-----------|---------|---------|
| 15   | HONGBO | 290-10844              | PIFA         | I-Pex     | BT      |         |
| 16   | PSA    | RFMTA401080IML<br>B704 | PIFA         | I-Pex     | 2.4G+5G | Group 6 |
| 17   | PSA    | RFMTA401080IML<br>B704 | PIFA         | I-Pex     | 2.4G+5G |         |
| 18   | PSA    | RFMTA401080IML<br>B704 | PIFA         | I-Pex     | BT      |         |
| 19   | PSA    | RFMTA340730IML<br>B305 | PIFA         | I-Pex     | 2.4G+5G | Group 7 |
| 20   | PSA    | RFMTA340715IML<br>B302 | PIFA         | I-Pex     | 2.4G+5G |         |
| 21   | PSA    | RFMTA340715IML<br>B305 | PIFA         | I-Pex     | BT      |         |

| Ant. | Port | Gain (dBi) |      |      | Remark  |
|------|------|------------|------|------|---------|
|      |      | 2.4G       | 5G   | BT   |         |
| 1    | 1    | 3.74       | 3.8  | -    | Group 1 |
| 2    | 2    | 3.74       | 3.8  | -    |         |
| 3    | 3    | -          | -    | 3.74 |         |
| 4    | 1    | 3.74       | 3.8  | -    | Group 2 |
| 5    | 2    | 3.74       | 3.8  | -    |         |
| 6    | 3    | -          | -    | 3.74 |         |
| 7    | 1    | 3.05       | 1.59 | -    | Group 3 |
| 8    | 2    | 3.05       | 1.59 | -    |         |
| 9    | 3    | -          | -    | 3.05 |         |
| 10   | 1    | 3.05       | 1.59 | -    | Group 4 |
| 11   | 2    | 3.05       | 1.59 | -    |         |
| 12   | 3    | -          | -    | 3.05 |         |
| 13   | 1    | 2.38       | 1.49 | -    | Group 5 |
| 14   | 2    | 2.38       | 1.49 | -    |         |
| 15   | 3    | -          | -    | 2.38 |         |
| 16   | 1    | 1.72       | 1.25 | -    | Group 6 |
| 17   | 2    | 1.72       | 1.25 | -    |         |
| 18   | 3    | -          | -    | 1.72 |         |
| 19   | 1    | -0.5       | 3.28 | -    | Group 7 |
| 20   | 2    | -1.68      | 3.08 | -    |         |
| 21   | 3    | -          | -    | -0.5 |         |

Note 1: The EUT has twenty one antennas.

Note 2: EUT can match with above antennas for using. Group 1 was used to perform the worst configuration and result of that was recorded as the final test result.

**For 2.4GHz function:**

For IEEE 802.11 b/g/n mode (2TX/2RX)

Port 1 and Port 2 could transmit/receive simultaneously.

**For BT function:**

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

Port 3 could transmit/receive.

**For 5GHz function:**

For IEEE 802.11 a/n mode (2TX/2RX)

Port 1 and Port 2 could transmit/receive simultaneously.

**1.1.3 EUT Information**

| Operational Condition               |                                                                               |                     |                                     |                     |
|-------------------------------------|-------------------------------------------------------------------------------|---------------------|-------------------------------------|---------------------|
| <b>EUT Power Type</b>               | From host system(NB)                                                          |                     |                                     |                     |
| <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      | 0.997 | 0.01    | n/a (DC $\geq$ 0.98) | n/a (DC $\geq$ 0.98) |
| 802.11g      | 0.976 | 0.11    | 1.394m               | 1k                   |
| 802.11n HT20 | 0.975 | 0.11    | 1.303m               | 1k                   |
| 802.11n HT40 | 0.934 | 0.3     | 651.563u             | 3k                   |

Note. If DC &lt; 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
- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ 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. |        |                                                                              |                      |

| Test Condition | Test Site No. | Test Engineer | Test Environment            | Test Date                   |
|----------------|---------------|---------------|-----------------------------|-----------------------------|
| RF Conducted   | TH06-HY       | Tim           | 23~25°C /<br>61~67%         | 03/Nov/2019~<br>20/Nov/2019 |
| Radiated       | 03CH03-HY     | Justin        | 18.7~24.3°C /<br>53.8~61.2% | 31/Oct/2019~<br>20/Nov/2019 |
| AC Conduction  | CO04-HY       | Edward        | 20.9~22.1°C /<br>60.4~64.2% | 04/Nov/2019~<br>27/Nov/2019 |

## 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)  | 3.54 dB     | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 1.6 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.9 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.3 dB      | Confidence levels of 95% |
| Temperature                          | 0.7 °C      | Confidence levels of 95% |
| Humidity                             | 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 Version | MT7668 QA_ 0.0.1.98 |
|-----------------------|---------------------|
|-----------------------|---------------------|

| Mode                         | Power Setting |
|------------------------------|---------------|
| 802.11b_Nss1,(1Mbps)_2TX     | -             |
| 2412MHz                      | 21            |
| 2437MHz                      | 1E            |
| 2457MHz                      | 1E            |
| 2462MHz                      | 1B            |
| 802.11g_Nss1,(6Mbps)_2TX     | -             |
| 2412MHz                      | 1C            |
| 2417MHz                      | 22            |
| 2437MHz                      | 28            |
| 2457MHz                      | 23            |
| 2462MHz                      | 1B            |
| 802.11n HT20_Nss1,(MCS0)_2TX | -             |
| 2412MHz                      | 1E            |
| 2417MHz                      | 24            |
| 2437MHz                      | 28            |
| 2457MHz                      | 24            |
| 2462MHz                      | 1E            |
| 802.11n HT40_Nss1,(MCS0)_2TX | -             |
| 2422MHz                      | 15            |
| 2427MHz                      | 17            |
| 2437MHz                      | 20            |
| 2447MHz                      | 18            |
| 2452MHz                      | 17            |

## 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                                                   | USB 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                                                   | USB 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                                                                                     |

| The Worst Case Mode for Following Conformance Tests                                |                                    |
|------------------------------------------------------------------------------------|------------------------------------|
| <b>Tests Item</b>                                                                  | Simultaneous Transmission Analysis |
| <b>Operating Mode</b>                                                              | CTX                                |
| 1                                                                                  | WLAN 2.4GHz+Bluetooth              |
| 2                                                                                  | WLAN 5GHz+Bluetooth                |
| Refer to Sporton Test Report No.: FA9O2329 for Co-location RF Exposure Evaluation. |                                    |

## 2.4 Support Equipment

| Support Equipment – RF Conducted |                |            |            |        |
|----------------------------------|----------------|------------|------------|--------|
| No.                              | Equipment      | Brand Name | Model Name | FCC ID |
| 1                                | Notebook       | DELL       | E5410      | DoC    |
| 2                                | Adapter for NB | DELL       | HA65NM130  | DoC    |
| 3                                | Fixture        | LITE-ON    | TB001      | -      |

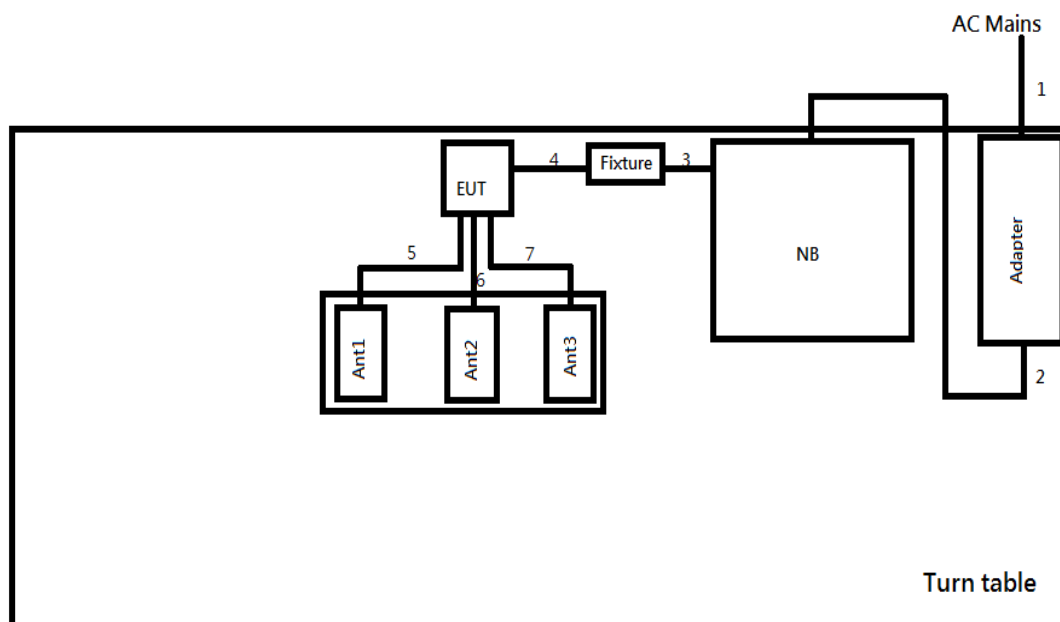
Note: Support equipment No.3 was provided by customer.

| Support Equipment –AC Conduction and Radiated Emission |           |            |            |        |
|--------------------------------------------------------|-----------|------------|------------|--------|
| No.                                                    | Equipment | Brand Name | Model Name | FCC ID |
| 1                                                      | Notebook  | DELL       | E4300      | -      |
| 2                                                      | Adapter   | DELL       | LA90PM111  | -      |
| 3                                                      | Fixture   | LITE-ON    | TB001      | -      |
| 4                                                      | Antenna   | HONGBO     | 290-10569  | -      |

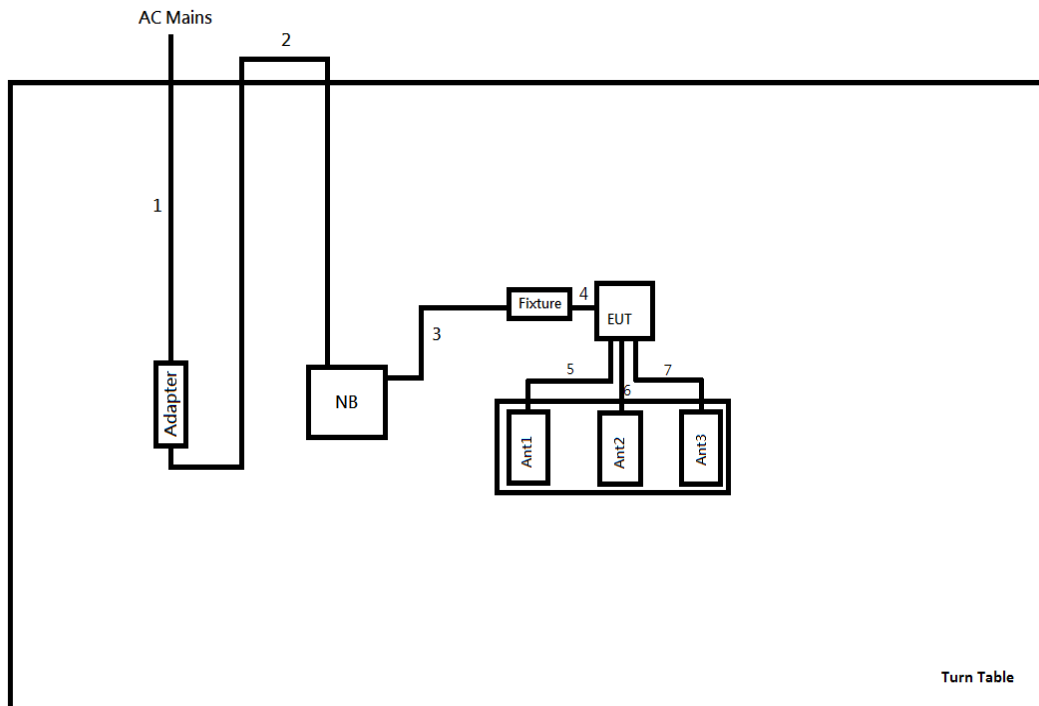
Note: Support equipment No.3 and No.4 were provided by customer.

## 2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power Cable | No       | 1.8       | -      |
| 2    | DC Power Cable | No       | 2.0       | -      |
| 3    | USB Cable      | No       | 0.1       | -      |
| 4    | DATA Cable     | No       | 0.05      | -      |
| 5    | RF cable       | No       | 0.3       | -      |
| 6    | RF cable       | No       | 0.3       | -      |
| 7    | RF cable       | No       | 0.3       | -      |

**Test Setup Diagram - Radiated Test**


| Item | Connection     | Shielded | Length(m) | Remark |
|------|----------------|----------|-----------|--------|
| 1    | AC Power Cable | No       | 1.8       | -      |
| 2    | DC Power Cable | No       | 2.0       | -      |
| 3    | USB Cable      | No       | 0.1       | -      |
| 4    | Fixture Cable  | No       | 0.05      | -      |
| 5    | Antenna cable  | No       | 0.3       | -      |
| 6    | Antenna cable  | No       | 0.3       | -      |
| 7    | Antenna cable  | No       | 0.3       | -      |

### 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. |            |           |

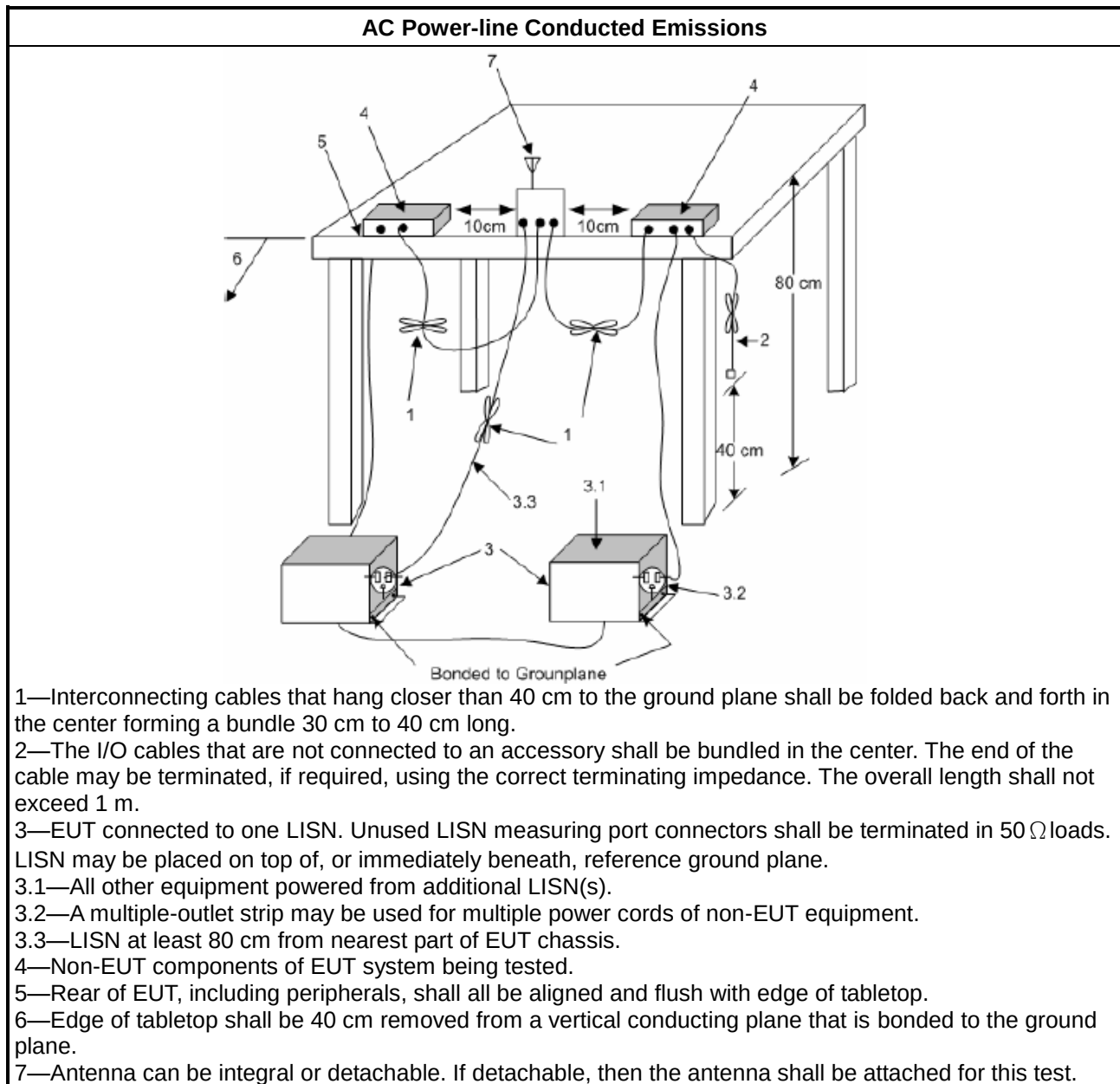
##### 3.1.2 Measuring Instruments

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. |

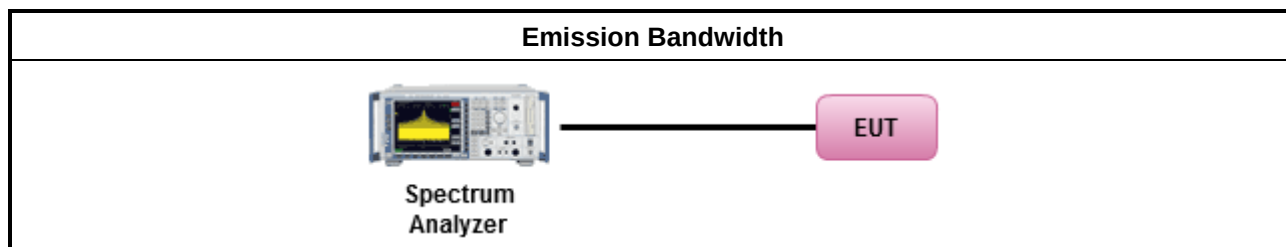
### 3.2.2 Measuring Instruments

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. |   |                                                                                                    |

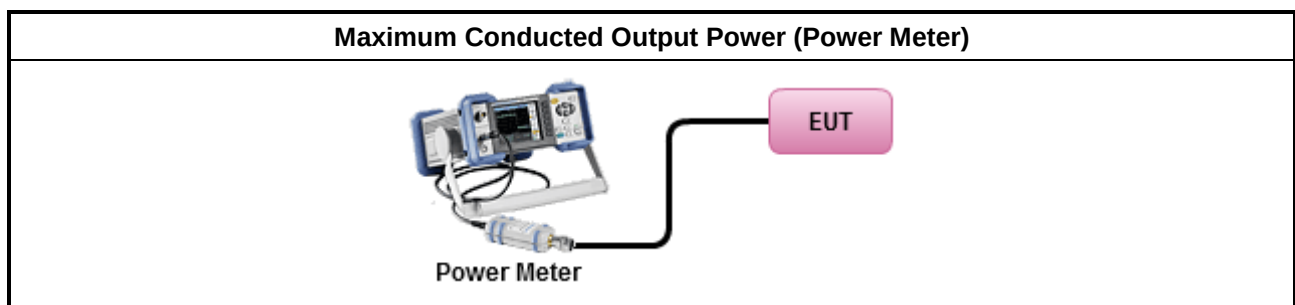
#### 3.3.2 Measuring Instruments

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 |

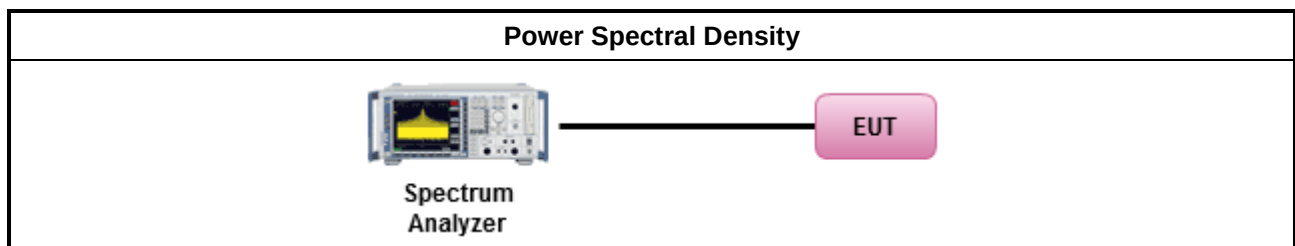
#### 3.4.2 Measuring Instruments

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) Method PKPSD.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ▪                                   | 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> |            |

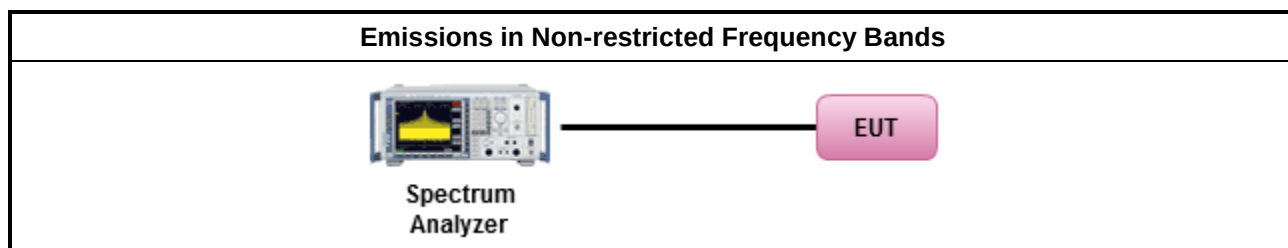
#### 3.5.2 Measuring Instruments

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.

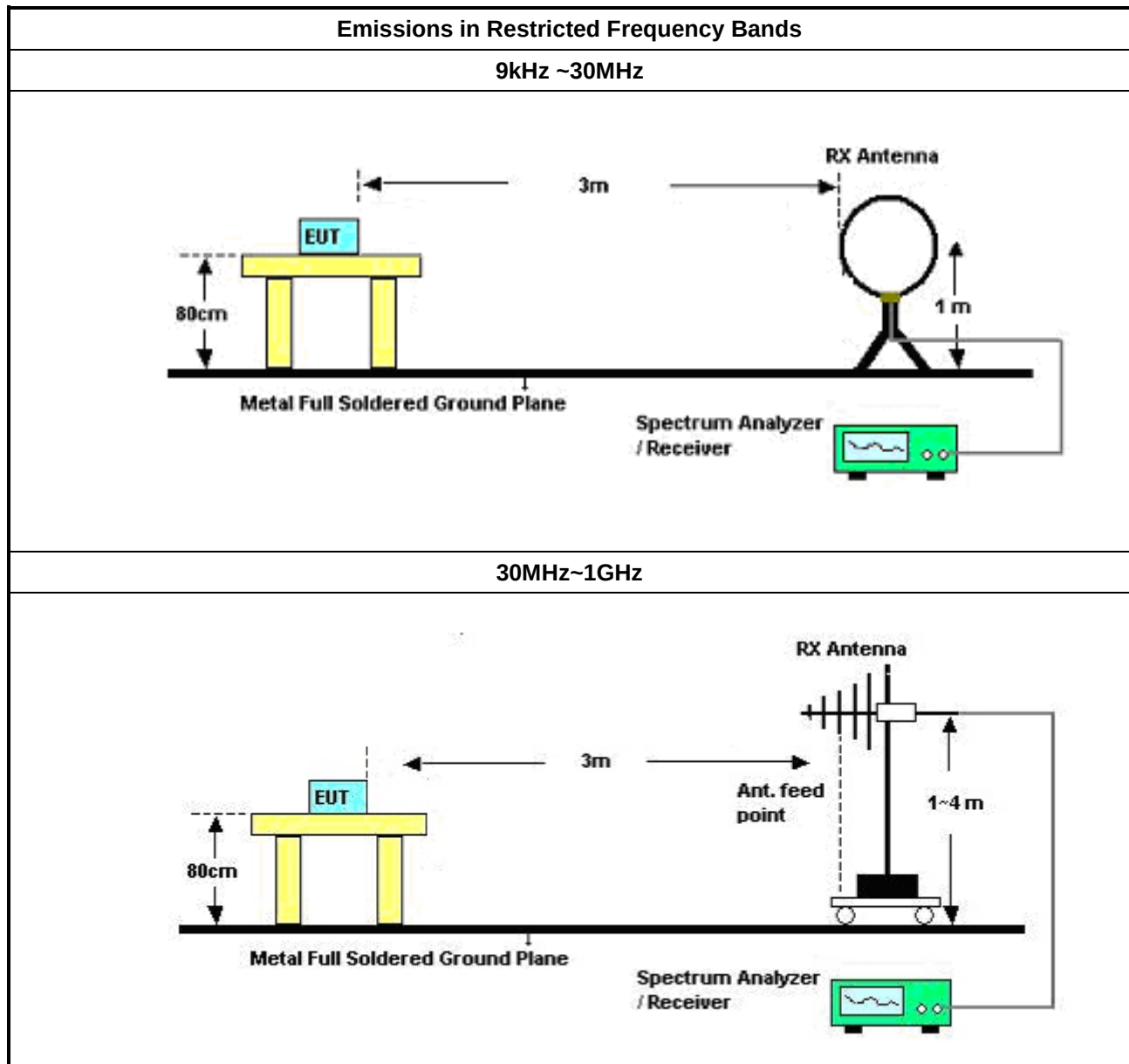
#### 3.6.2 Measuring Instruments

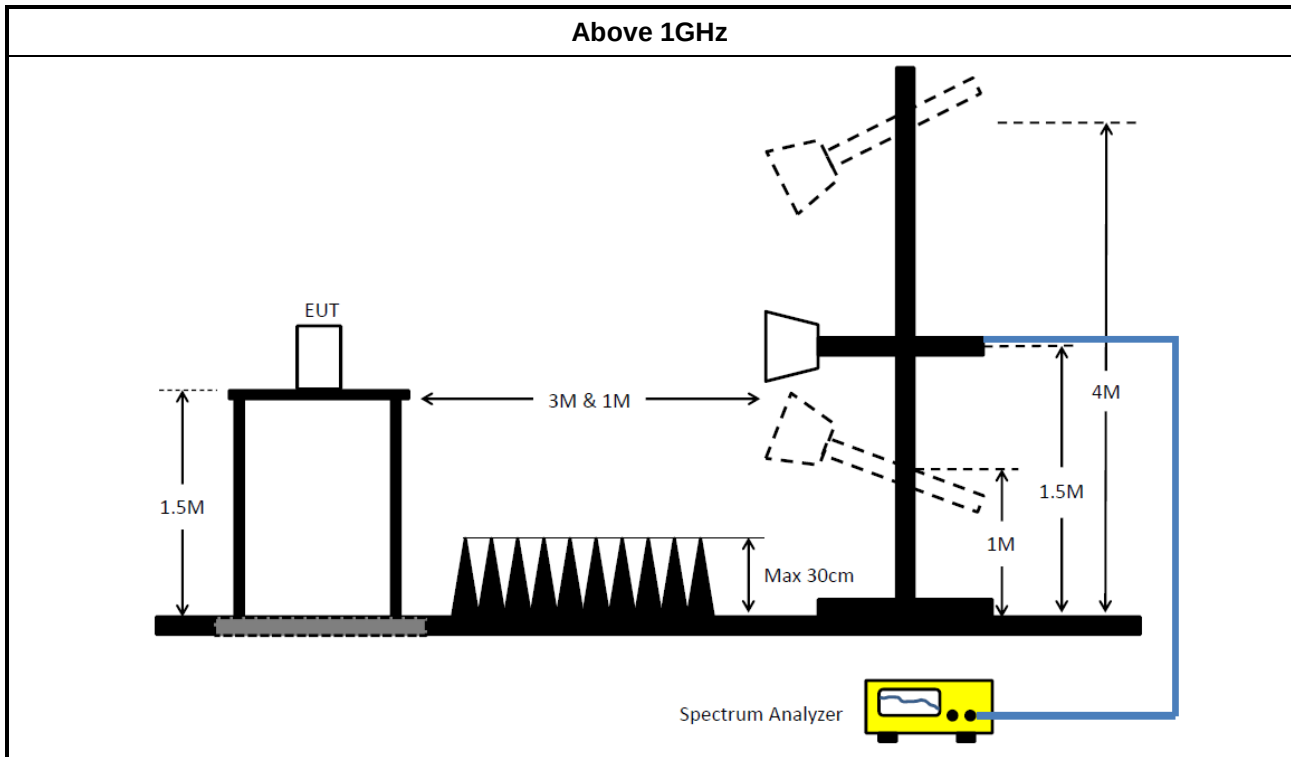
Refer a test equipment and calibration data table in this test report.

### 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        | 102052     | 9kHz~3.6GHz         | 09/Apr/2019      | 08/Apr/2020          |
| LISN                                 | R&S          | ENV216      | 101295     | 9kHz~30MHz          | 08/Nov/2018      | 07/Nov/2019          |
| 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 Pulse<br>Limiter | SCHWARZBECK  | VTSD 9561-F | 9561-F041  | 9kHz~30MHz          | 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     | 22/Apr/2019      | 21/Apr/2020          |
| EMI Test<br>Receiver                   | R&S            | ESR3                     | 102052              | 9kHz ~ 3.6GHz      | 09/Apr/2019      | 08/Apr/2020          |
| Bilog Antenna &<br>5db Attenuator      | SCHAFFNER/MTJ  | CBL6112D /<br>MTJ6102-05 | 2678 / 001          | 30MHz ~ 2GHz       | 06/Jul/2019      | 05/Jul/2020          |
| 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        | 22/Mar/2019      | 21/Mar/2020          |
| RF CABLE 6m                            | HUBER+SUHNER   | SUOFLEX 104              | SN 805801/4         | 1GHz ~ 40GHz       | 21/Mar/2019      | 20/Mar/2020          |
| RF CABLE                               | HUBER+SUHNER   | SUOFLEX 104              | 802378/4            | 1 GHz ~ 18 GHz     | 04/Jul/2019      | 03/Jul/2020          |
| Broadband Horn<br>Antenna              | SCHWARZBECK    | BBHA 9170                | BBHA9170<br>339     | 18GHz ~ 40GHz      | 19/Apr/2019      | 18/Apr/2020          |
| Double Ridged<br>Guide Horn<br>Antenna | SCHWARZBECK    | BBHA 9120 D              | BBHA 9120 D<br>1531 | 1GHz ~ 18GHz       | 09/Mar/2019      | 08/Mar/2020          |
| Preamplifier                           | MITEQ          | TTA1840-35-HG            | 1864481             | 18GHz ~ 40GHz      | 05/Aug/2019      | 04/Aug/2020          |

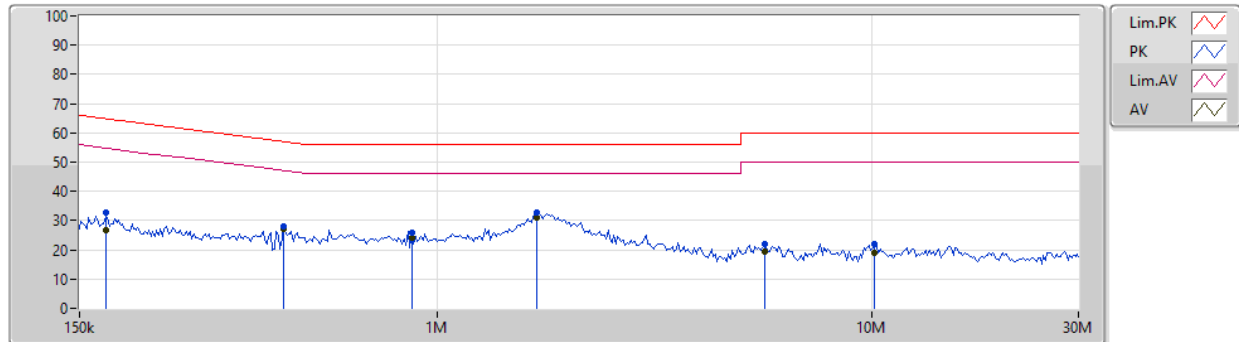
**Instrument for Conducted Test**

| Instrument                     | Manufacturer | Model No. | Serial No.    | Spec.        | Calibration Date | Calibration Due Date |
|--------------------------------|--------------|-----------|---------------|--------------|------------------|----------------------|
| Signal Analyzer                | R&S          | FSV 40    | 101029        | 10KHz~40GHz  | 01/Oct/2019      | 30/Sep/2020          |
| SMB100A<br>Signal<br>Generator | R&S          | SMB100A03 | 181147        | 100kHz~40GHz | 12/Nov/2018      | 10/Nov/2020          |
| Pulse Power<br>Sensor          | Anritsu      | MA2411B   | 1027452       | 300MHz~40GHz | 14/Mar/2019      | 13/Mar/2020          |
| Power Meter                    | Anritsu      | ML2495A   | 1124009       | 300MHz~40GHz | 14/Mar/2019      | 13/Mar/2020          |
| CABLE 0.2m                     | HUBER        | MY37960/4 | RF Cable - 17 | 30MHz~18G    | 10/Jan/2019      | 09/Jan/2020          |
| CABLE 0.2m                     | HUBER        | MY37960/4 | RF Cable - 17 | 30MHz~18G    | 10/Jan/2019      | 09/Jan/2020          |
| CABLE 0.5m                     | HUBER        | MY37963/4 | RF Cable - 22 | 30MHz~18G    | 10/Jan/2019      | 09/Jan/2020          |

### AC Power-line Conducted Emissions Result

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

04/11/2019

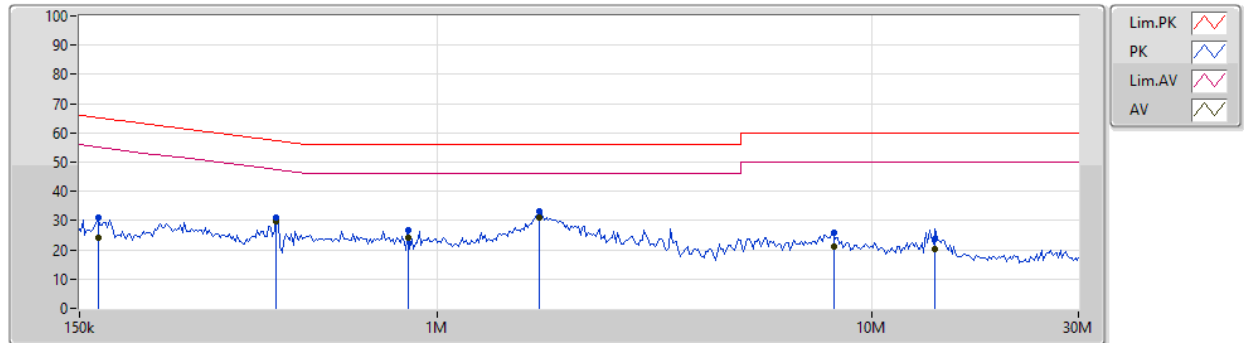


| Type | Freq<br>(Hz) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Factor<br>(dB) | Condition | Comment | Raw<br>(dBuV) | LISN<br>(dB) | CL<br>(dB) | AT<br>(dB) |  |  |  |
|------|--------------|-----------------|-----------------|----------------|----------------|-----------|---------|---------------|--------------|------------|------------|--|--|--|
| QP   | 172.421k     | 32.94           | 64.83           | -31.89         | 19.48          | Neutral   | -       | 13.46         | 9.60         | 0.01       | 9.87       |  |  |  |
| AV   | 172.421k     | 26.92           | 54.83           | -27.91         | 19.48          | Neutral   | -       | 7.44          | 9.60         | 0.01       | 9.87       |  |  |  |
| QP   | 443.732k     | 27.85           | 56.99           | -29.14         | 19.48          | Neutral   | -       | 8.37          | 9.59         | 0.01       | 9.88       |  |  |  |
| AV   | 443.732k     | 26.95           | 46.99           | -20.04         | 19.48          | Neutral   | -       | 7.47          | 9.59         | 0.01       | 9.88       |  |  |  |
| QP   | 872.92k      | 25.67           | 56.00           | -30.33         | 19.49          | Neutral   | -       | 6.18          | 9.59         | 0.02       | 9.88       |  |  |  |
| AV   | 872.92k      | 24.22           | 46.00           | -21.78         | 19.49          | Neutral   | -       | 4.73          | 9.59         | 0.02       | 9.88       |  |  |  |
| QP   | 1.7M         | 32.71           | 56.00           | -23.29         | 19.53          | Neutral   | -       | 13.18         | 9.61         | 0.03       | 9.89       |  |  |  |
| AV   | 1.7M         | 30.92           | 46.00           | -15.08         | 19.53          | Neutral   | "Worst" | 11.39         | 9.61         | 0.03       | 9.89       |  |  |  |
| QP   | 5.668M       | 22.14           | 60.00           | -37.86         | 19.57          | Neutral   | -       | 2.57          | 9.63         | 0.05       | 9.89       |  |  |  |
| AV   | 5.668M       | 19.26           | 50.00           | -30.74         | 19.57          | Neutral   | -       | -0.31         | 9.63         | 0.05       | 9.89       |  |  |  |
| QP   | 10.194M      | 22.06           | 60.00           | -37.94         | 19.63          | Neutral   | -       | 2.43          | 9.67         | 0.07       | 9.89       |  |  |  |
| AV   | 10.194M      | 19.04           | 50.00           | -30.96         | 19.63          | Neutral   | -       | -0.59         | 9.67         | 0.07       | 9.89       |  |  |  |

### AC Power-line Conducted Emissions Result

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

04/11/2019



| Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Factor (dB) | Condition | Comment | Raw (dBuV) | LISN (dB) | CL (dB) | AT (dB) |  |  |  |
|------|-----------|--------------|--------------|-------------|-------------|-----------|---------|------------|-----------|---------|---------|--|--|--|
| QP   | 165.693k  | 31.13        | 65.18        | -34.05      | 19.48       | Line      | -       | 11.65      | 9.60      | 0.01    | 9.87    |  |  |  |
| AV   | 165.693k  | 23.99        | 55.18        | -31.19      | 19.48       | Line      | -       | 4.51       | 9.60      | 0.01    | 9.87    |  |  |  |
| QP   | 426.418k  | 31.08        | 57.32        | -26.24      | 19.48       | Line      | -       | 11.60      | 9.59      | 0.01    | 9.88    |  |  |  |
| AV   | 426.418k  | 29.57        | 47.32        | -17.75      | 19.48       | Line      | -       | 10.09      | 9.59      | 0.01    | 9.88    |  |  |  |
| QP   | 855.72k   | 26.54        | 56.00        | -29.46      | 19.50       | Line      | -       | 7.04       | 9.60      | 0.02    | 9.88    |  |  |  |
| AV   | 855.72k   | 23.98        | 46.00        | -22.02      | 19.50       | Line      | -       | 4.48       | 9.60      | 0.02    | 9.88    |  |  |  |
| QP   | 1.717M    | 33.03        | 56.00        | -22.97      | 19.54       | Line      | -       | 13.49      | 9.62      | 0.03    | 9.89    |  |  |  |
| AV   | 1.717M    | 31.07        | 46.00        | -14.93      | 19.54       | Line      | "Worst" | 11.53      | 9.62      | 0.03    | 9.89    |  |  |  |
| QP   | 8.19M     | 25.66        | 60.00        | -34.34      | 19.61       | Line      | -       | 6.05       | 9.66      | 0.06    | 9.89    |  |  |  |
| AV   | 8.19M     | 21.26        | 50.00        | -28.74      | 19.61       | Line      | -       | 1.65       | 9.66      | 0.06    | 9.89    |  |  |  |
| QP   | 14.016M   | 23.88        | 60.00        | -36.12      | 19.64       | Line      | -       | 4.24       | 9.65      | 0.09    | 9.90    |  |  |  |
| AV   | 14.016M   | 20.42        | 50.00        | -29.58      | 19.64       | Line      | -       | 0.78       | 9.65      | 0.09    | 9.90    |  |  |  |

**Summary**

| Mode                         | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 2.4-2.4835GHz                | -                | -               | -        | -                | -               |
| 802.11b_Nss1,(1Mbps)_2TX     | 9.55M            | 14.493M         | 14M5G1D  | 9.075M           | 13.868M         |
| 802.11g_Nss1,(6Mbps)_2TX     | 15.075M          | 17.816M         | 17M8D1D  | 14.975M          | 16.317M         |
| 802.11n HT20_Nss1,(MCS0)_2TX | 16.3M            | 17.966M         | 18M0D1D  | 15.05M           | 17.491M         |
| 802.11n HT40_Nss1,(MCS0)_2TX | 35.1M            | 36.182M         | 36M2D1D  | 35.05M           | 35.982M         |

**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;

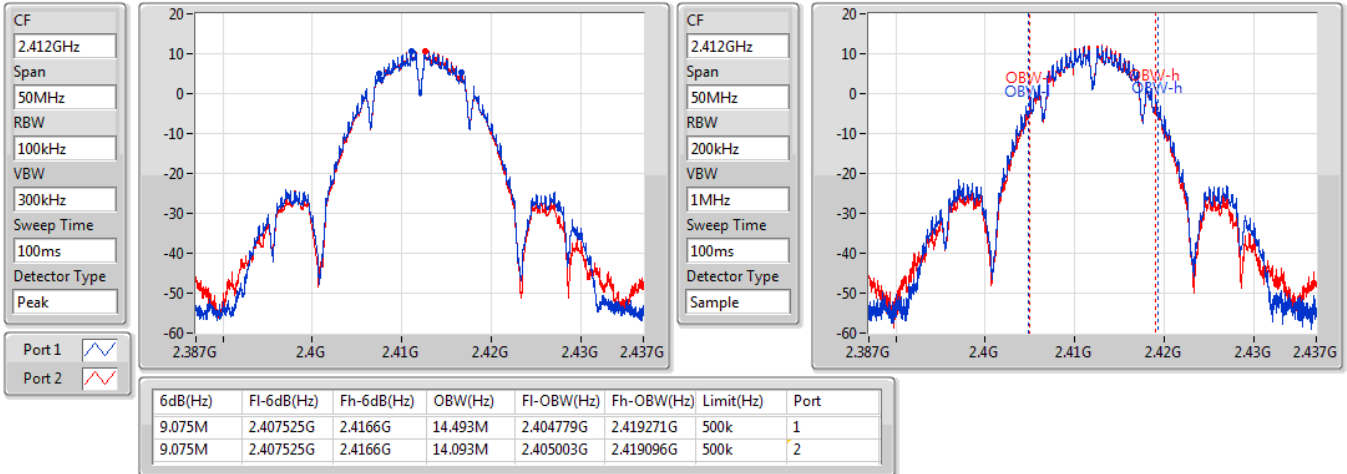
**Result**

| Mode                         | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11b_Nss1,(1Mbps)_2TX     | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 9.075M              | 14.493M            | 9.075M              | 14.093M            |
| 2437MHz                      | Pass   | 500k          | 9.55M               | 13.993M            | 9.075M              | 13.868M            |
| 2462MHz                      | Pass   | 500k          | 9.075M              | 14.218M            | 9.075M              | 14.193M            |
| 802.11g_Nss1,(6Mbps)_2TX     | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 15.05M              | 16.417M            | 15.075M             | 16.317M            |
| 2437MHz                      | Pass   | 500k          | 15.075M             | 16.792M            | 15.05M              | 17.816M            |
| 2462MHz                      | Pass   | 500k          | 15.075M             | 16.392M            | 14.975M             | 16.367M            |
| 802.11n HT20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2412MHz                      | Pass   | 500k          | 15.1M               | 17.541M            | 16.3M               | 17.516M            |
| 2437MHz                      | Pass   | 500k          | 15.05M              | 17.941M            | 15.125M             | 17.966M            |
| 2462MHz                      | Pass   | 500k          | 15.075M             | 17.541M            | 15.7M               | 17.491M            |
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 2422MHz                      | Pass   | 500k          | 35.1M               | 36.182M            | 35.05M              | 36.142M            |
| 2437MHz                      | Pass   | 500k          | 35.1M               | 36.082M            | 35.1M               | 36.032M            |
| 2452MHz                      | Pass   | 500k          | 35.05M              | 35.982M            | 35.05M              | 36.032M            |

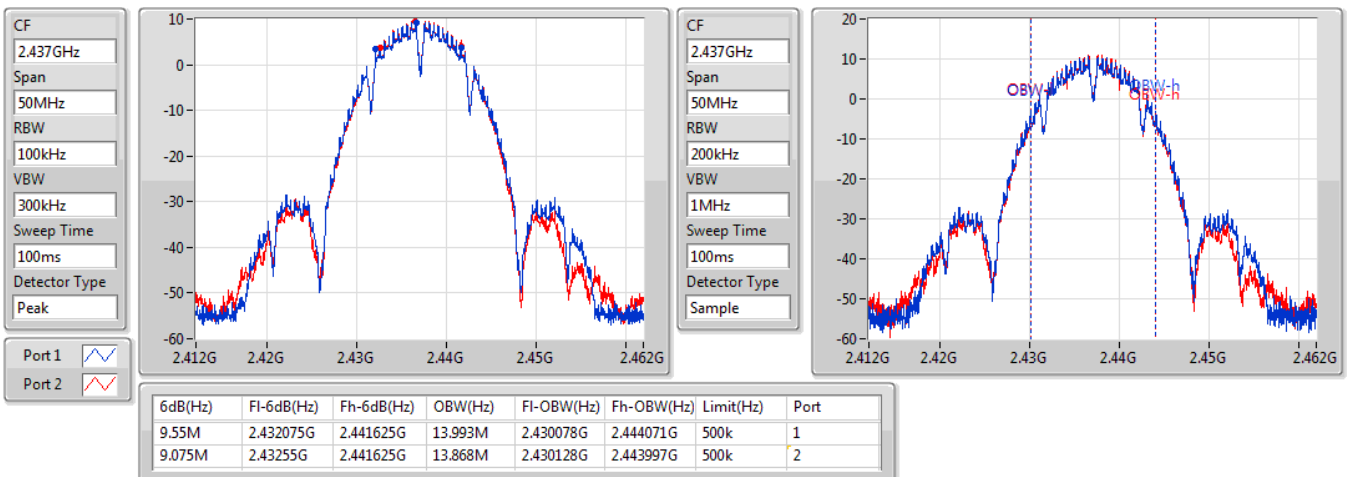
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**802.11b\_Nss1,(1Mbps)\_2TX**
**EBW**
**2412MHz**

03/11/2019


**802.11b\_Nss1,(1Mbps)\_2TX**
**EBW**
**2437MHz**

03/11/2019

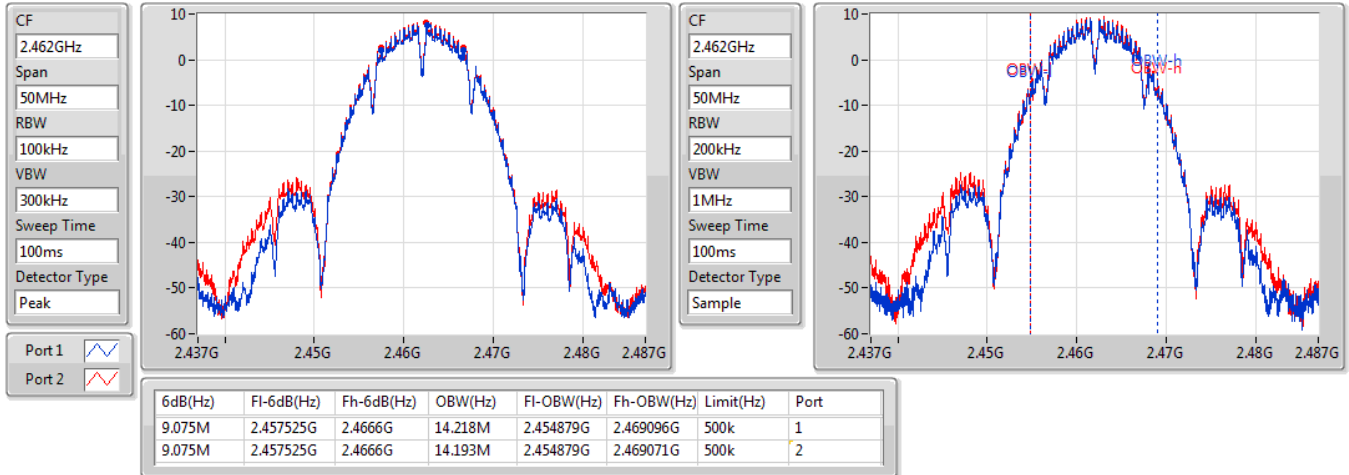


## 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2462MHz

03/11/2019

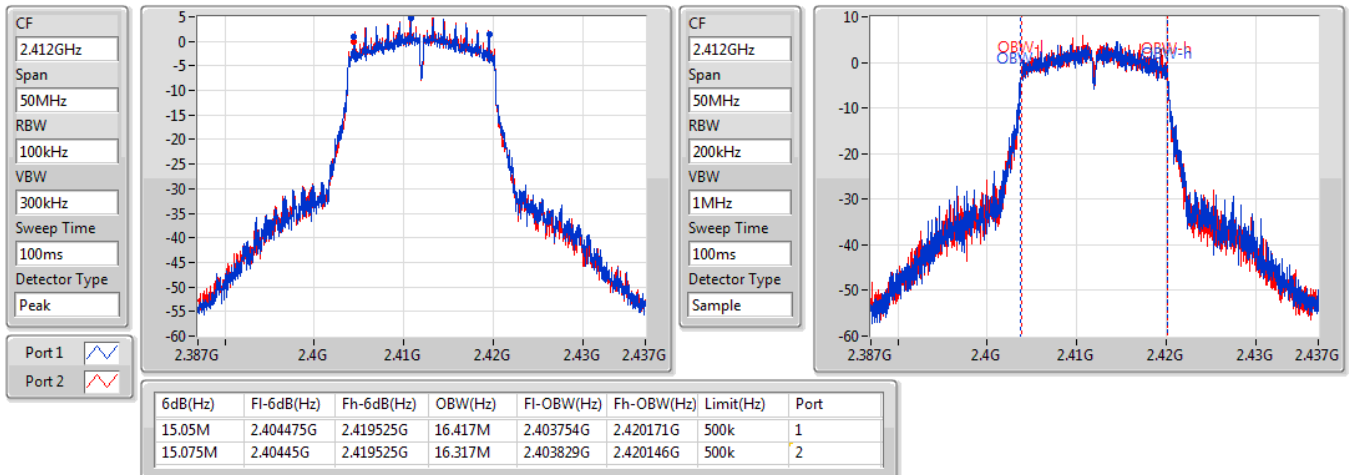


## 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2412MHz

03/11/2019

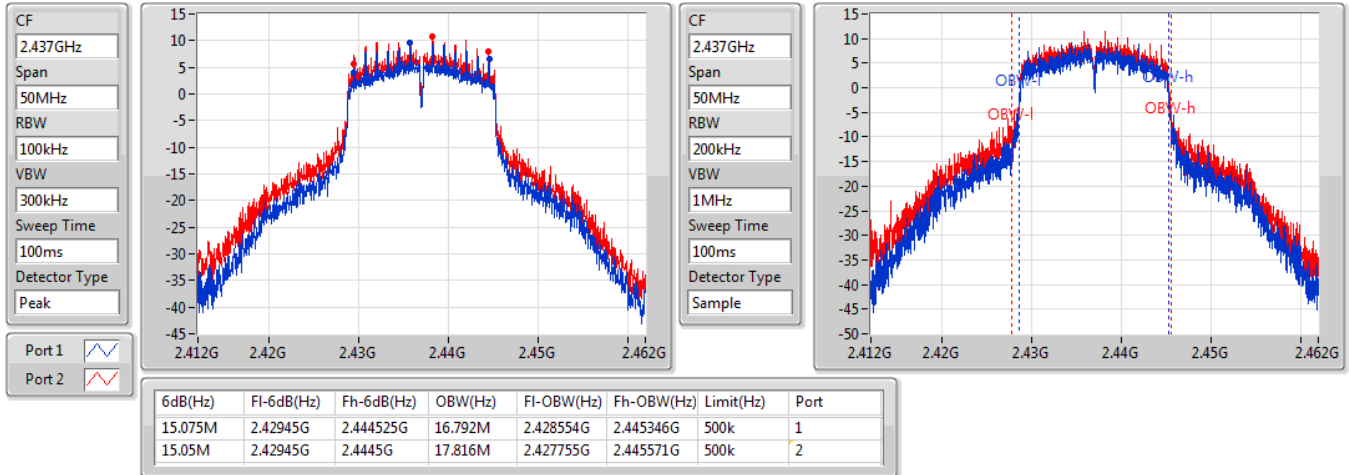


## 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2437MHz

03/11/2019

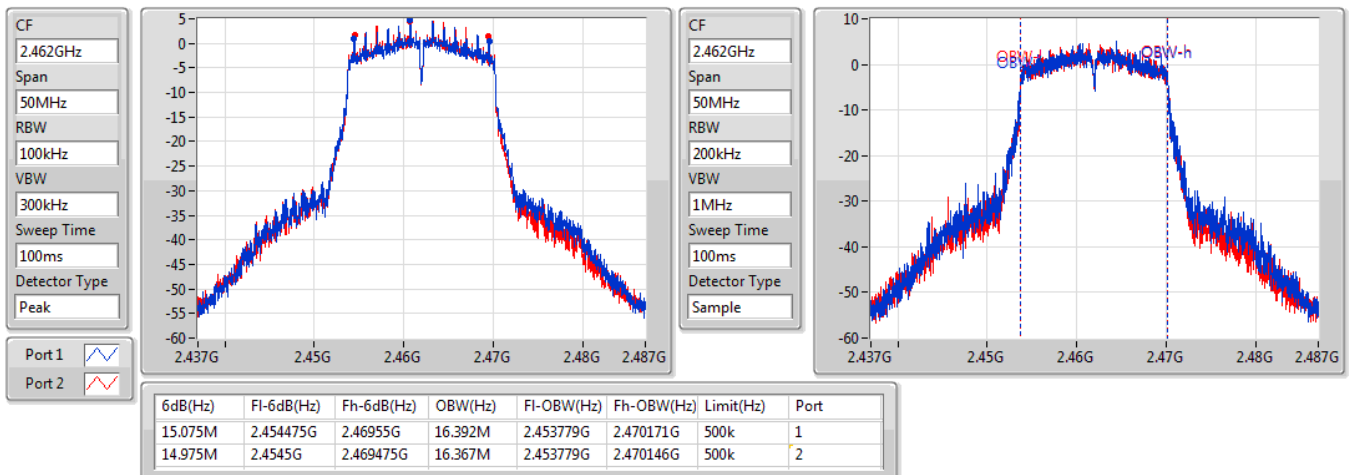


## 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2462MHz

03/11/2019

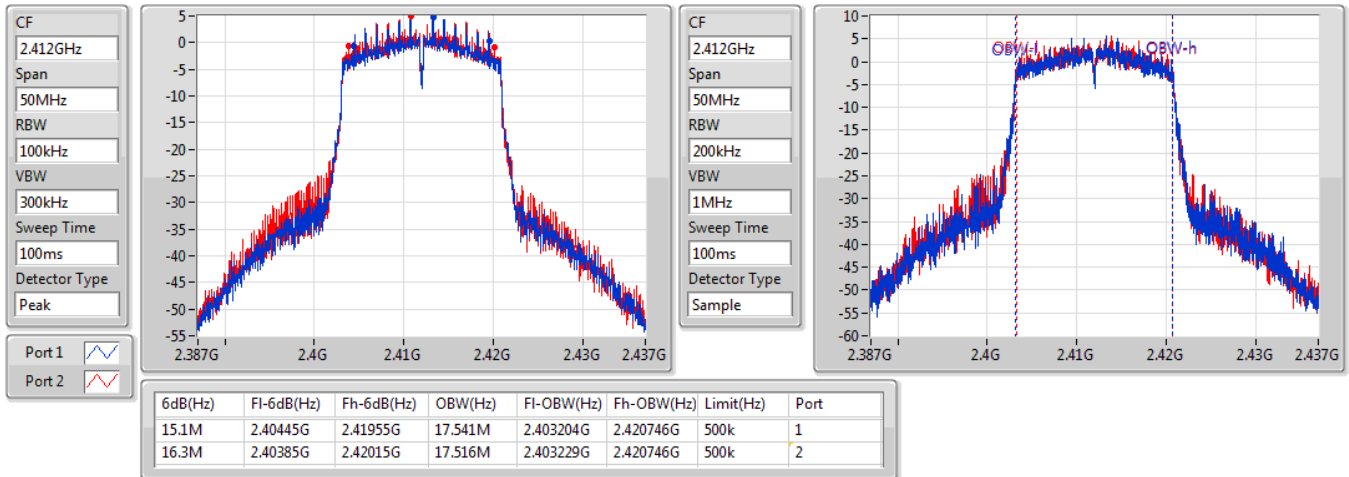


## 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

2412MHz

03/11/2019

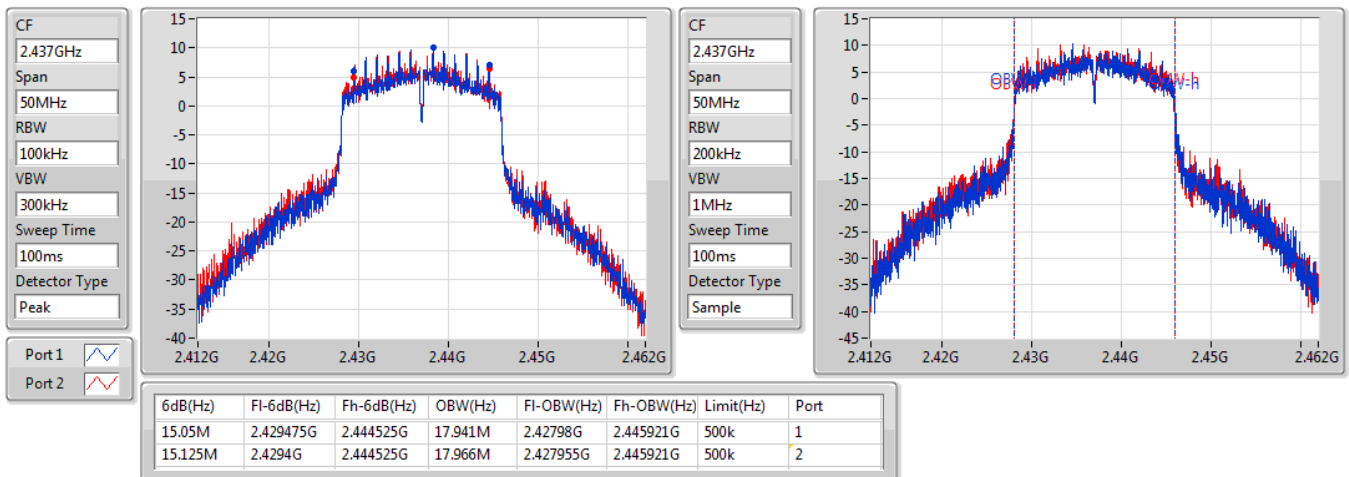


## 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

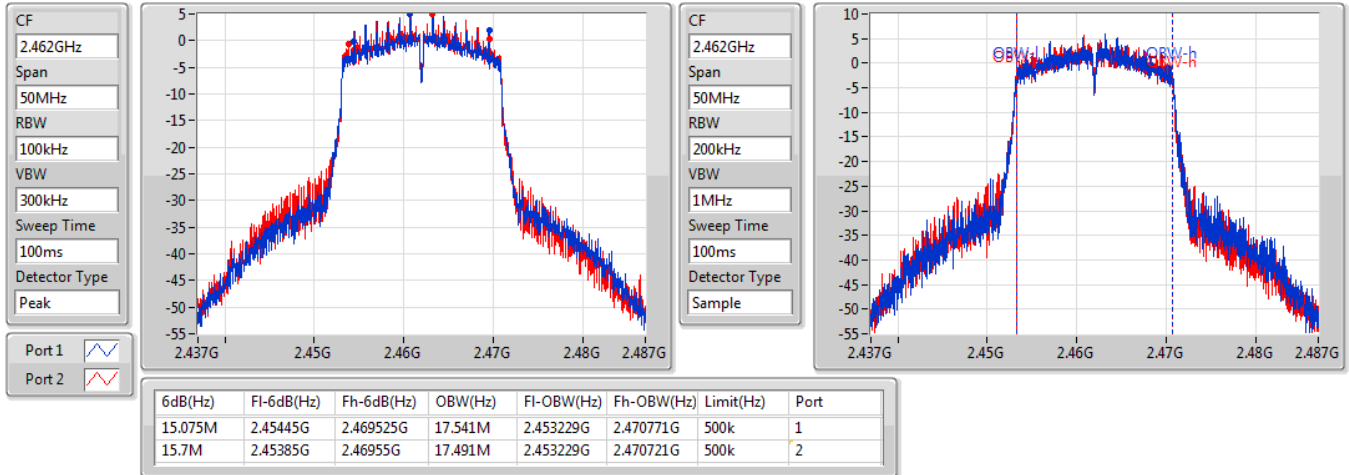
2437MHz

03/11/2019

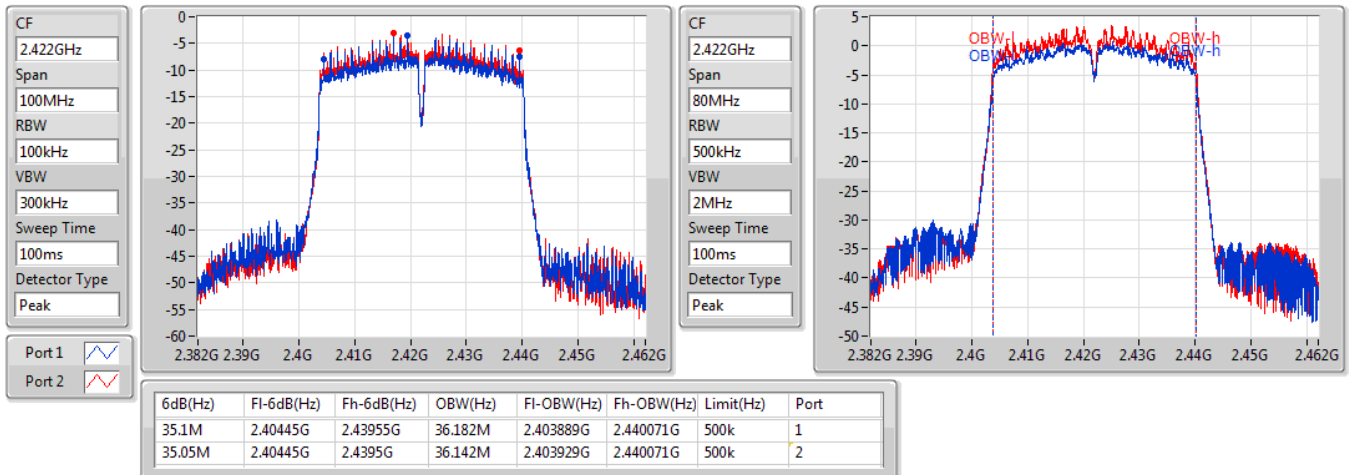


**802.11n HT20\_Nss1,(MCS0)\_2TX**
**EBW**
**2462MHz**

04/11/2019


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**
**2422MHz**

20/11/2019

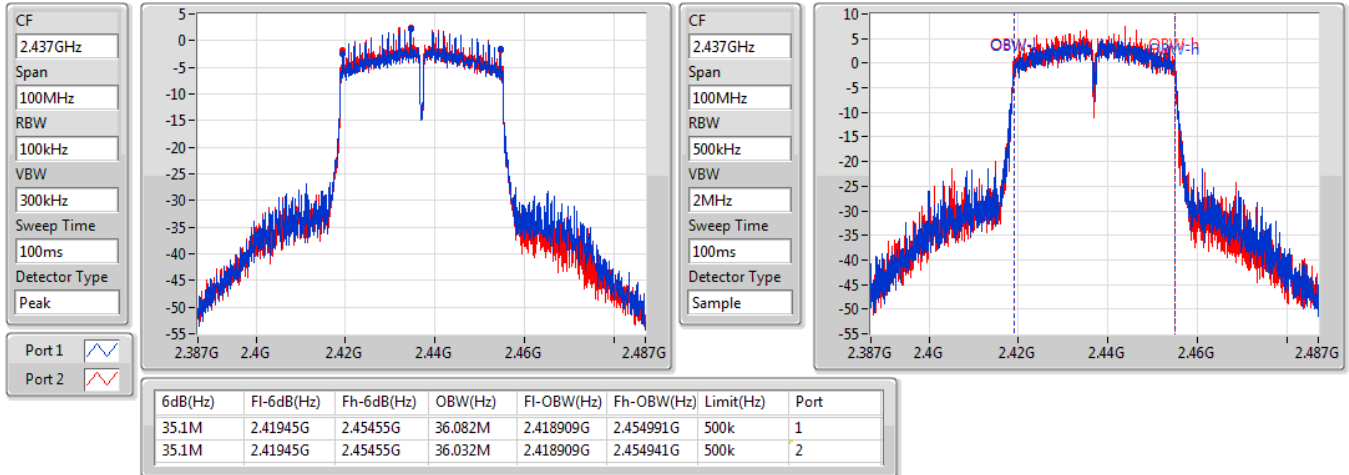


## 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

2437MHz

04/11/2019

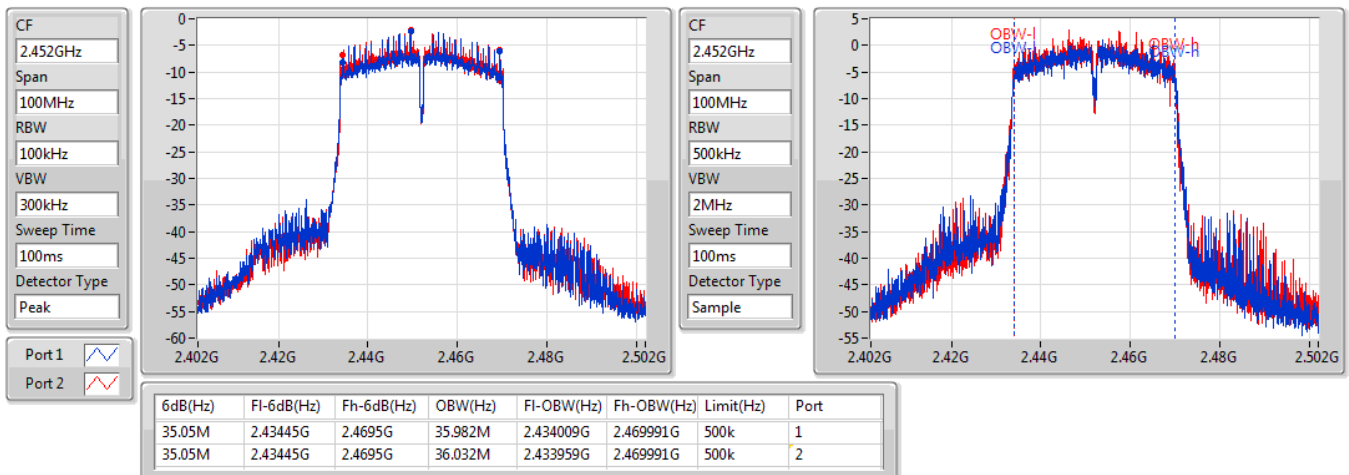


## 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

2452MHz

04/11/2019





**Summary**

| Mode                         | Total Power<br>(dBm) | Total Power<br>(W) |
|------------------------------|----------------------|--------------------|
| 2.4-2.4835GHz                | -                    | -                  |
| 802.11b_Nss1,(1Mbps)_2TX     | 24.29                | 0.26853            |
| 802.11g_Nss1,(6Mbps)_2TX     | 24.22                | 0.26424            |
| 802.11n HT20_Nss1,(MCS0)_2TX | 23.99                | 0.25061            |
| 802.11n HT40_Nss1,(MCS0)_2TX | 19.23                | 0.08375            |

## Result

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total Power<br>(dBm) | Power Limit<br>(dBm) |
|------------------------------|--------|-------------|-----------------|-----------------|----------------------|----------------------|
| 802.11b_Nss1,(1Mbps)_2TX     | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                      | Pass   | 3.74        | 21.17           | 21.38           | 24.29                | 30.00                |
| 2437MHz                      | Pass   | 3.74        | 19.74           | 19.99           | 22.88                | 30.00                |
| 2457MHz                      | Pass   | 3.74        | 19.59           | 19.59           | 22.60                | 30.00                |
| 2462MHz                      | Pass   | 3.74        | 18.19           | 18.69           | 21.46                | 30.00                |
| 802.11g_Nss1,(6Mbps)_2TX     | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                      | Pass   | 3.74        | 16.18           | 16.19           | 19.20                | 30.00                |
| 2417MHz                      | Pass   | 3.74        | 19.29           | 19.30           | 22.31                | 30.00                |
| 2437MHz                      | Pass   | 3.74        | 20.57           | 21.77           | 24.22                | 30.00                |
| 2457MHz                      | Pass   | 3.74        | 19.76           | 19.86           | 22.82                | 30.00                |
| 2462MHz                      | Pass   | 3.74        | 15.71           | 15.73           | 18.73                | 30.00                |
| 802.11n HT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2412MHz                      | Pass   | 3.74        | 15.93           | 16.19           | 19.07                | 30.00                |
| 2417MHz                      | Pass   | 3.74        | 18.94           | 19.16           | 22.06                | 30.00                |
| 2437MHz                      | Pass   | 3.74        | 20.68           | 21.26           | 23.99                | 30.00                |
| 2457MHz                      | Pass   | 3.74        | 19.12           | 19.30           | 22.22                | 30.00                |
| 2462MHz                      | Pass   | 3.74        | 15.99           | 16.24           | 19.13                | 30.00                |
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                    | -                    |
| 2422MHz                      | Pass   | 3.74        | 10.23           | 10.73           | 13.50                | 30.00                |
| 2427MHz                      | Pass   | 3.74        | 11.28           | 11.69           | 14.50                | 30.00                |
| 2437MHz                      | Pass   | 3.74        | 16.13           | 16.31           | 19.23                | 30.00                |
| 2447MHz                      | Pass   | 3.74        | 12.14           | 12.46           | 15.31                | 30.00                |
| 2452MHz                      | Pass   | 3.74        | 11.54           | 11.83           | 14.70                | 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)_2TX     | -2.52           |
| 802.11g_Nss1,(6Mbps)_2TX     | -3.23           |
| 802.11n HT20_Nss1,(MCS0)_2TX | -3.90           |
| 802.11n HT40_Nss1,(MCS0)_2TX | -11.90          |

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

**Result**

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 802.11b_Nss1,(1Mbps)_2TX     | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                      | Pass   | 6.75        | -4.24               | -5.38               | -2.52           | 7.25                  |
| 2437MHz                      | Pass   | 6.75        | -6.32               | -5.89               | -4.21           | 7.25                  |
| 2462MHz                      | Pass   | 6.75        | -8.94               | -8.70               | -6.39           | 7.25                  |
| 802.11g_Nss1,(6Mbps)_2TX     | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                      | Pass   | 6.75        | -11.41              | -10.76              | -8.40           | 7.25                  |
| 2437MHz                      | Pass   | 6.75        | -6.26               | -5.22               | -3.23           | 7.25                  |
| 2462MHz                      | Pass   | 6.75        | -11.42              | -10.92              | -8.95           | 7.25                  |
| 802.11n HT20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                      | Pass   | 6.75        | -10.40              | -10.20              | -8.42           | 7.25                  |
| 2437MHz                      | Pass   | 6.75        | -5.72               | -5.60               | -3.90           | 7.25                  |
| 2462MHz                      | Pass   | 6.75        | -10.26              | -10.34              | -8.76           | 7.25                  |
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2422MHz                      | Pass   | 6.75        | -19.40              | -18.51              | -16.58          | 7.25                  |
| 2437MHz                      | Pass   | 6.75        | -14.08              | -13.30              | -11.90          | 7.25                  |
| 2452MHz                      | Pass   | 6.75        | -17.97              | -17.30              | -16.45          | 7.25                  |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

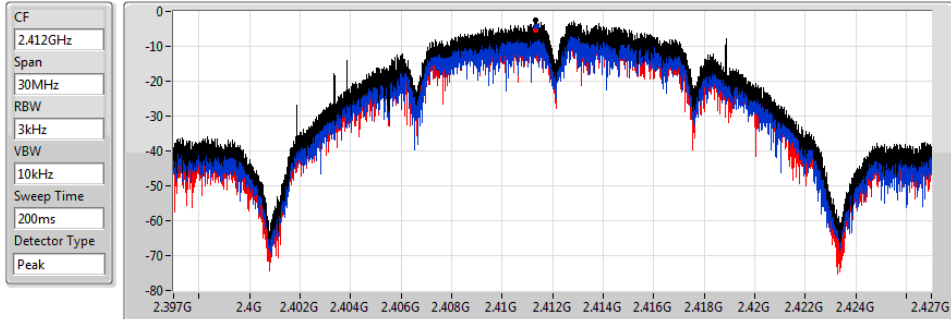
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

### 802.11b\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

03/11/2019



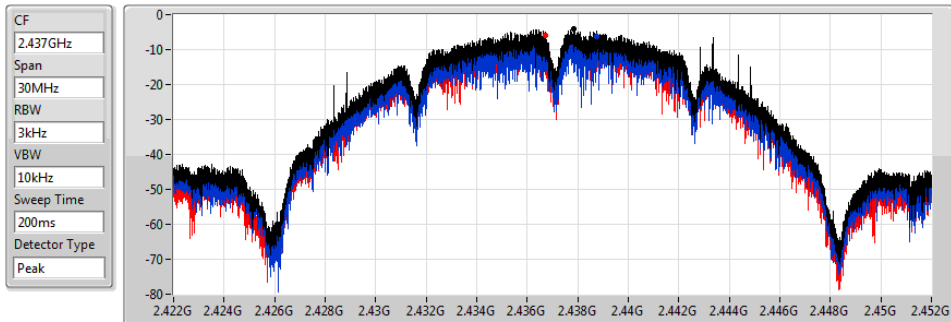
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -2.52    | -2.52    | -4.24    | -5.38    |

### 802.11b\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

03/11/2019



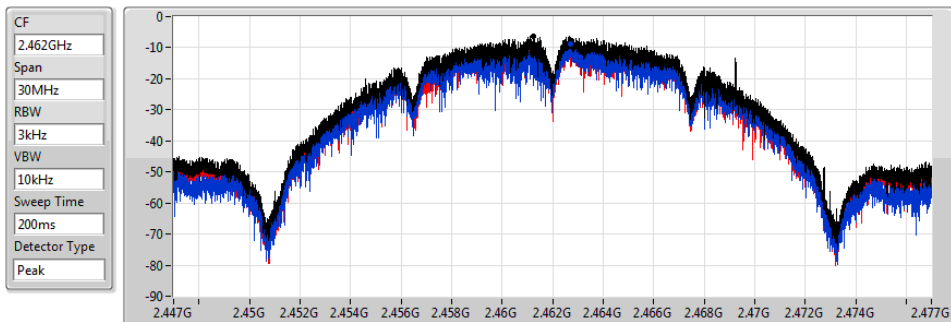
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -4.21    | -4.21    | -6.32    | -5.89    |

### 802.11b\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

03/11/2019



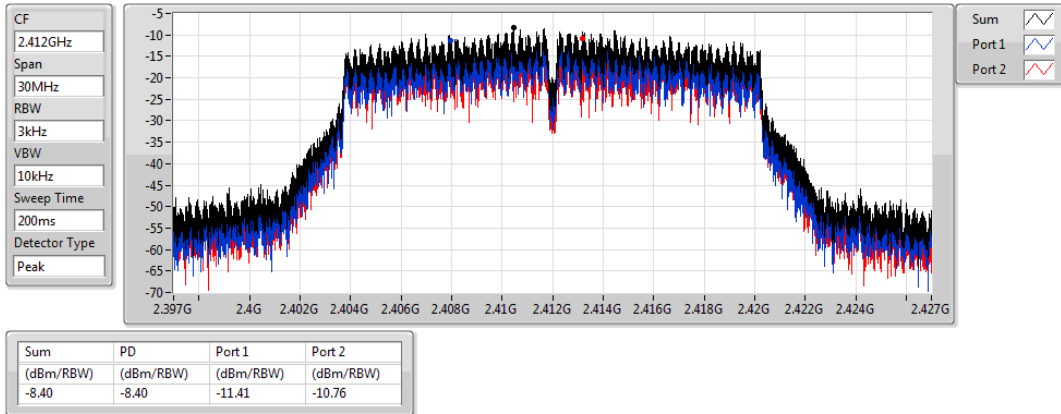
| Sum      | PD       | Port 1   | Port 2   |
|----------|----------|----------|----------|
| (dBm/Hz) | (dBm/Hz) | (dBm/Hz) | (dBm/Hz) |
| -6.39    | -6.39    | -8.94    | -8.70    |

## 802.11g\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

03/11/2019

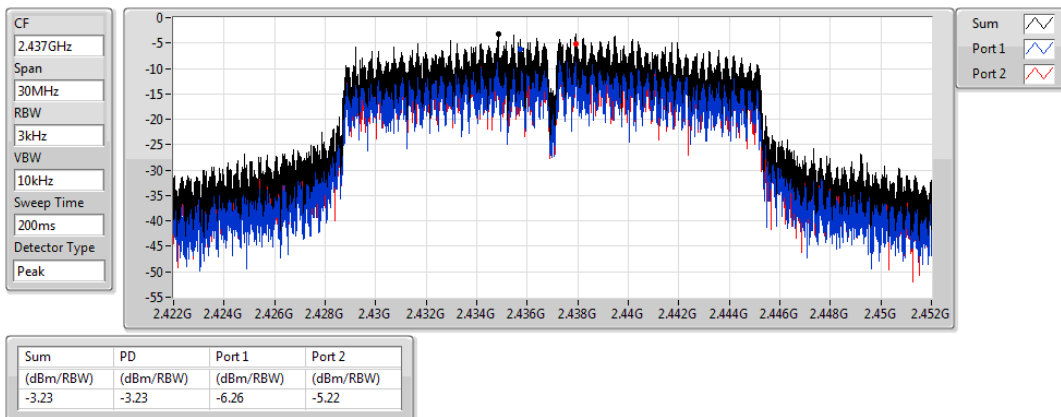


## 802.11g\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

03/11/2019

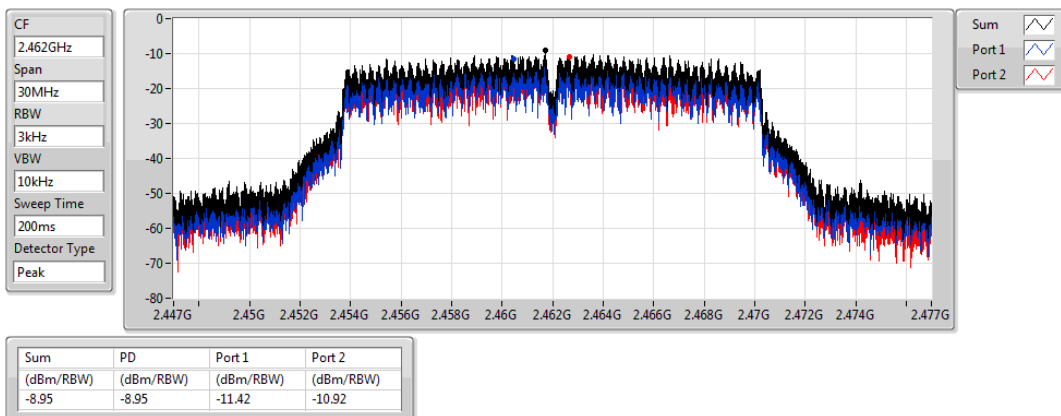


## 802.11g\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

03/11/2019

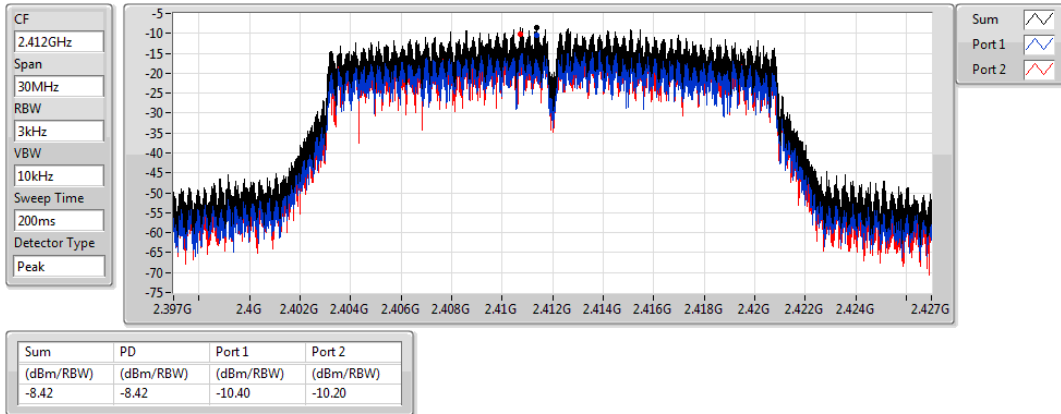


## 802.11n HT20\_Nss1,(MCS0)\_2TX

PSD

2412MHz

03/11/2019

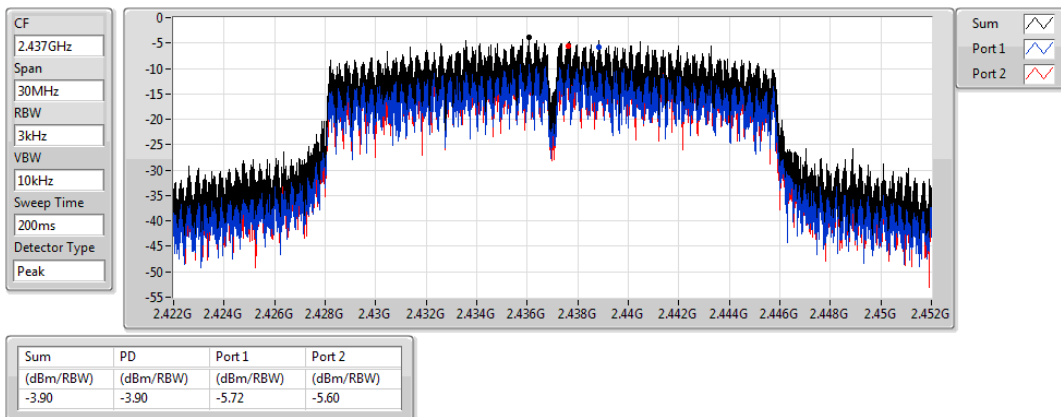


## 802.11n HT20\_Nss1,(MCS0)\_2TX

PSD

2437MHz

03/11/2019

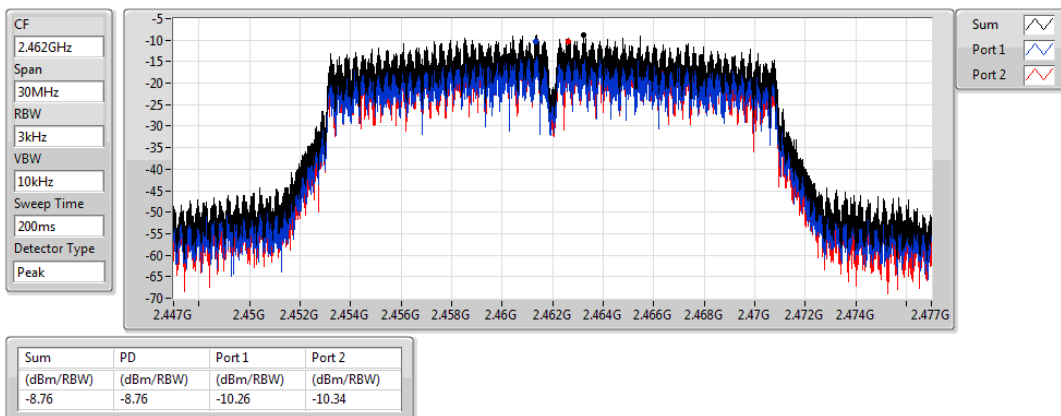


## 802.11n HT20\_Nss1,(MCS0)\_2TX

PSD

2462MHz

04/11/2019

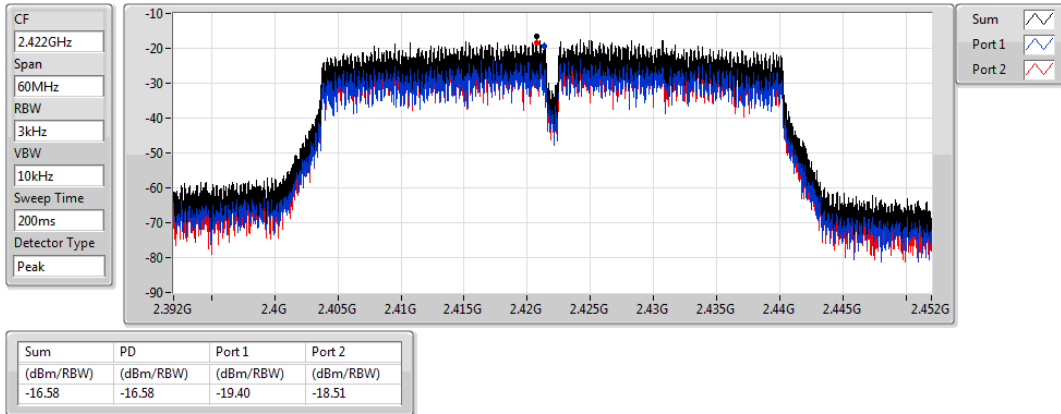


## 802.11n HT40\_Nss1,(MCS0)\_2TX

PSD

2422MHz

20/11/2019

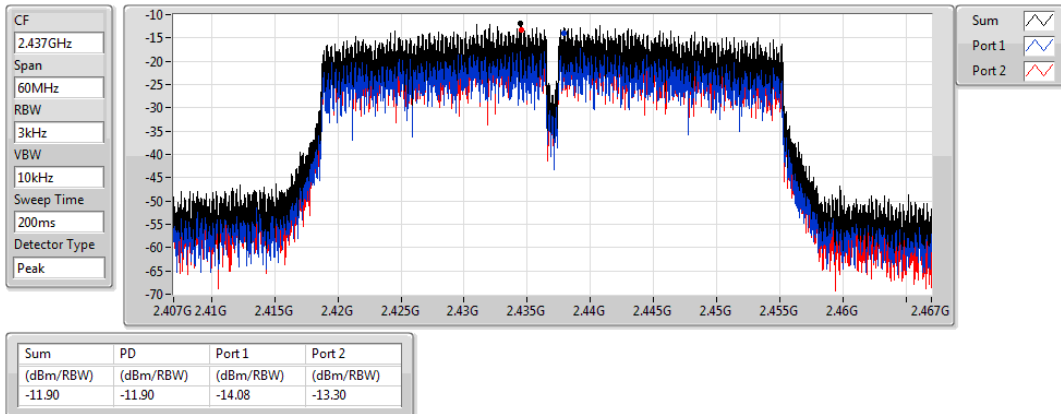


## 802.11n HT40\_Nss1,(MCS0)\_2TX

PSD

2437MHz

04/11/2019

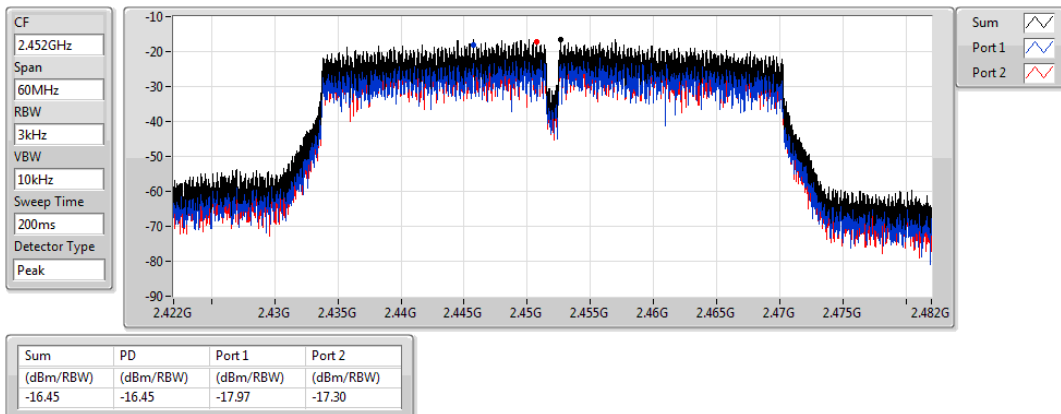


## 802.11n HT40\_Nss1,(MCS0)\_2TX

PSD

2452MHz

04/11/2019





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)_2TX     | Pass   | 2.41106G    | 11.50        | -18.50         | 2.30699G     | -53.98         | 2.3971G      | -23.15         | 2.50168G     | -52.53         | 24.36504G    | -40.04         | 1            |                |      |
| 802.11g_Nss1,(6Mbps)_2TX     | Pass   | 2.43574G    | 10.71        | -19.29         | 2.30029G     | -55.06         | 2.39876G     | -28.94         | 2.4956G      | -52.29         | 23.30583G    | -40.62         | 2            |                |      |
| 802.11n HT20_Nss1,(MCS0)_2TX | Pass   | 2.43574G    | 10.21        | -19.79         | 863.56M      | -54.34         | 2.3995G      | -26.46         | 2.49988G     | -52.15         | 23.3536G     | -40.31         | 2            |                |      |
| 802.11n HT40_Nss1,(MCS0)_2TX | Pass   | 2.43449G    | 2.58         | -27.42         | 2.30254G     | -53.45         | 2.39952G     | -33.36         | 2.4G         | -35.18         | 2.4851G      | -46.44         | 23.4014G     | -40.90         | 2    |

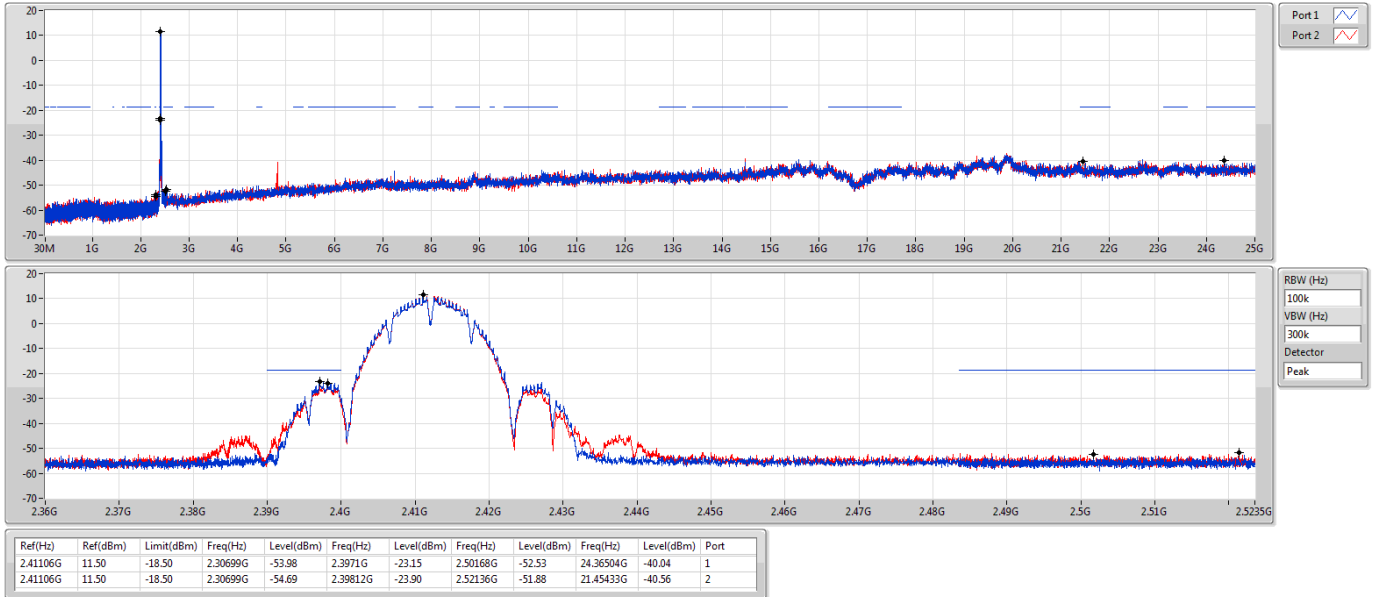
**Result**

| 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)_2TX     | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.41106G    | 11.50        | -18.50         | 2.30699G     | -53.98         | 2.3971G      | -23.15         | 2.50168G     | -52.53         | 24.36504G    | -40.04         | 1            |                |      |
| 2412MHz                      | Pass   | 2.41106G    | 11.50        | -18.50         | 2.30699G     | -54.69         | 2.39812G     | -23.90         | 2.52136G     | -51.88         | 21.45433G    | -40.56         | 2            |                |      |
| 2437MHz                      | Pass   | 2.41106G    | 11.50        | -18.50         | 805.6M       | -54.47         | 2.39418G     | -51.46         | 2.51564G     | -52.06         | 15.20306G    | -39.18         | 1            |                |      |
| 2437MHz                      | Pass   | 2.41106G    | 11.50        | -18.50         | 2.1503G      | -54.80         | 2.3971G      | -52.58         | 2.48518G     | -52.05         | 24.93538G    | -39.26         | 2            |                |      |
| 2462MHz                      | Pass   | 2.41106G    | 11.50        | -18.50         | 1.91177G     | -55.04         | 2.39474G     | -54.26         | 2.48708G     | -49.48         | 23.40698G    | -40.75         | 1            |                |      |
| 2462MHz                      | Pass   | 2.41106G    | 11.50        | -18.50         | 867.93M      | -54.04         | 2.39332G     | -53.55         | 2.48756G     | -48.49         | 16.25945G    | -40.11         | 2            |                |      |
| 802.11g_Nss1,(6Mbps)_2TX     | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.43574G    | 10.71        | -19.29         | 2.12496G     | -55.10         | 2.39988G     | -29.30         | 2.50382G     | -51.43         | 25G          | -40.56         | 1            |                |      |
| 2412MHz                      | Pass   | 2.43574G    | 10.71        | -19.29         | 2.30029G     | -55.06         | 2.39876G     | -28.94         | 2.4956G      | -52.29         | 23.30583G    | -40.62         | 2            |                |      |
| 2437MHz                      | Pass   | 2.43574G    | 10.71        | -19.29         | 2.18321G     | -53.57         | 2.39934G     | -47.49         | 2.51998G     | -51.33         | 21.68472G    | -40.65         | 1            |                |      |
| 2437MHz                      | Pass   | 2.43574G    | 10.71        | -19.29         | 2.10749G     | -54.94         | 2.39952G     | -43.74         | 2.48482G     | -48.00         | 23.39293G    | -40.00         | 2            |                |      |
| 2462MHz                      | Pass   | 2.43574G    | 10.71        | -19.29         | 1.96565G     | -55.47         | 2.3969G      | -52.64         | 2.48386G     | -46.17         | 23.41541G    | -39.70         | 1            |                |      |
| 2462MHz                      | Pass   | 2.43574G    | 10.71        | -19.29         | 2.00468G     | -54.54         | 2.39218G     | -52.36         | 2.48418G     | -46.96         | 15.2761G     | -40.50         | 2            |                |      |
| 802.11n HT20_Nss1,(MCS0)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2412MHz                      | Pass   | 2.43574G    | 10.21        | -19.79         | 2.08535G     | -54.38         | 2.39944G     | -29.45         | 2.50494G     | -52.06         | 23.39293G    | -40.23         | 1            |                |      |
| 2412MHz                      | Pass   | 2.43574G    | 10.21        | -19.79         | 863.56M      | -54.34         | 2.3995G      | -26.46         | 2.49988G     | -52.15         | 23.3536G     | -40.31         | 2            |                |      |
| 2437MHz                      | Pass   | 2.43574G    | 10.21        | -19.79         | 2.03001G     | -54.99         | 2.39978G     | -47.40         | 2.48408G     | -49.46         | 24.21894G    | -40.23         | 1            |                |      |
| 2437MHz                      | Pass   | 2.43574G    | 10.21        | -19.79         | 795.11M      | -55.14         | 2.3995G      | -43.00         | 2.4851G      | -47.30         | 16.23136G    | -40.40         | 2            |                |      |
| 2462MHz                      | Pass   | 2.43574G    | 10.21        | -19.79         | 933.46M      | -54.79         | 2.3993G      | -52.33         | 2.48354G     | -42.37         | 23.37326G    | -39.41         | 1            |                |      |
| 2462MHz                      | Pass   | 2.43574G    | 10.21        | -19.79         | 2.11302G     | -54.60         | 2.39474G     | -52.67         | 2.48638G     | -44.23         | 24.92976G    | -39.76         | 2            |                |      |
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -           | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -            | -              | -    |
| 2422MHz                      | Pass   | 2.43449G    | 2.58         | -27.42         | 2.17974G     | -55.03         | 2.3962G      | -37.01         | 2.4G         | -43.53         | 2.51502G     | -53.04         | 16.62838G    | -40.52         | 1    |
| 2422MHz                      | Pass   | 2.43449G    | 2.58         | -27.42         | 2.12192G     | -55.70         | 2.39616G     | -38.03         | 2.4G         | -43.83         | 2.49182G     | -53.07         | 23.35933G    | -40.52         | 2    |
| 2437MHz                      | Pass   | 2.43449G    | 2.58         | -27.42         | 2.16428G     | -54.53         | 2.39952G     | -33.80         | 2.4G         | -36.12         | 2.48506G     | -45.91         | 23.51919G    | -40.50         | 1    |
| 2437MHz                      | Pass   | 2.43449G    | 2.58         | -27.42         | 2.30254G     | -53.45         | 2.39952G     | -33.36         | 2.4G         | -35.18         | 2.4851G      | -46.44         | 23.4014G     | -40.90         | 2    |
| 2452MHz                      | Pass   | 2.43449G    | 2.58         | -27.42         | 2.18804G     | -56.22         | 2.39944G     | -51.60         | 2.4835G      | -44.44         | 2.48458G     | -38.82         | 23.47432G    | -40.44         | 1    |
| 2452MHz                      | Pass   | 2.43449G    | 2.58         | -27.42         | 2.30225G     | -53.89         | 2.39988G     | -51.73         | 2.4835G      | -44.27         | 2.48458G     | -38.52         | 16.23574G    | -41.13         | 2    |

## 802.11b\_Nss1,(1Mbps)\_2TX

CSE NdB

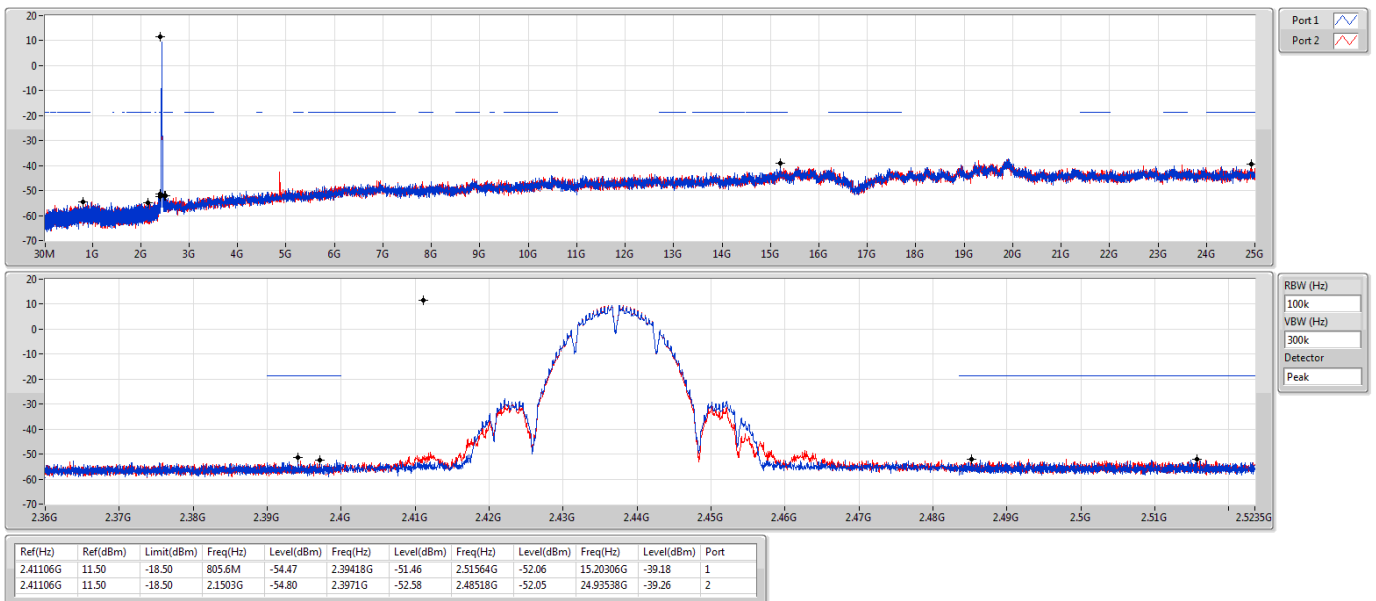
2412MHz



## 802.11b\_Nss1,(1Mbps)\_2TX

CSE NdB

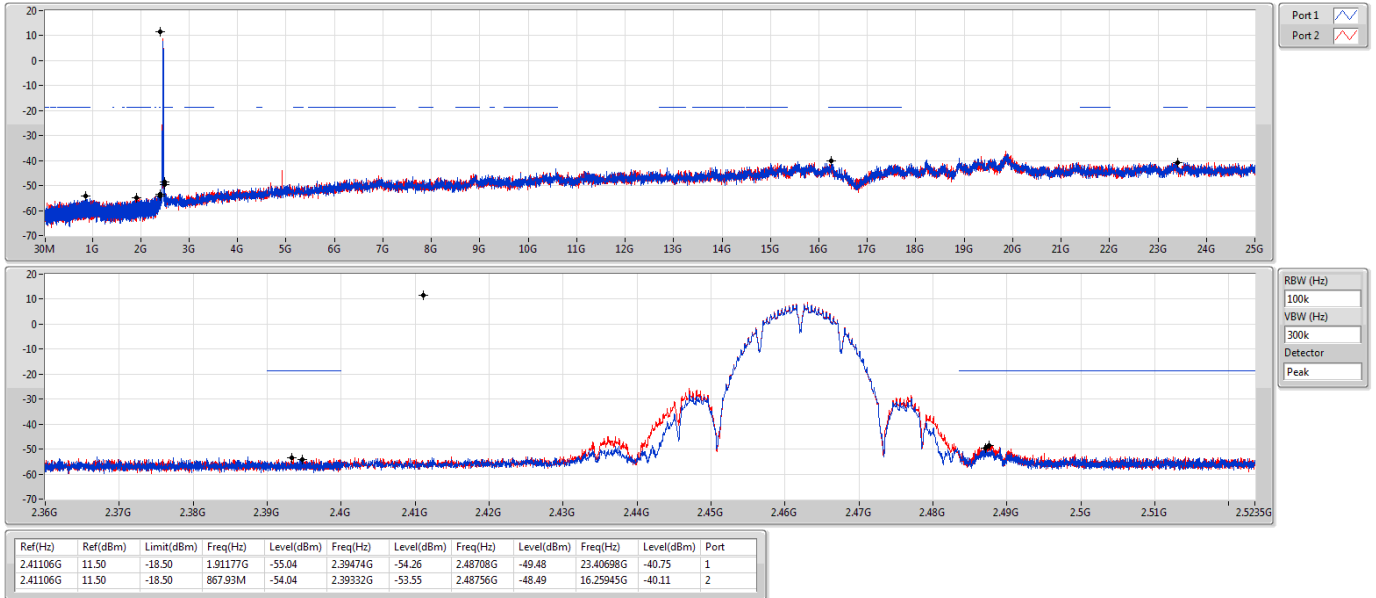
2437MHz



## 802.11b\_Nss1,(1Mbps)\_2TX

CSE NdB

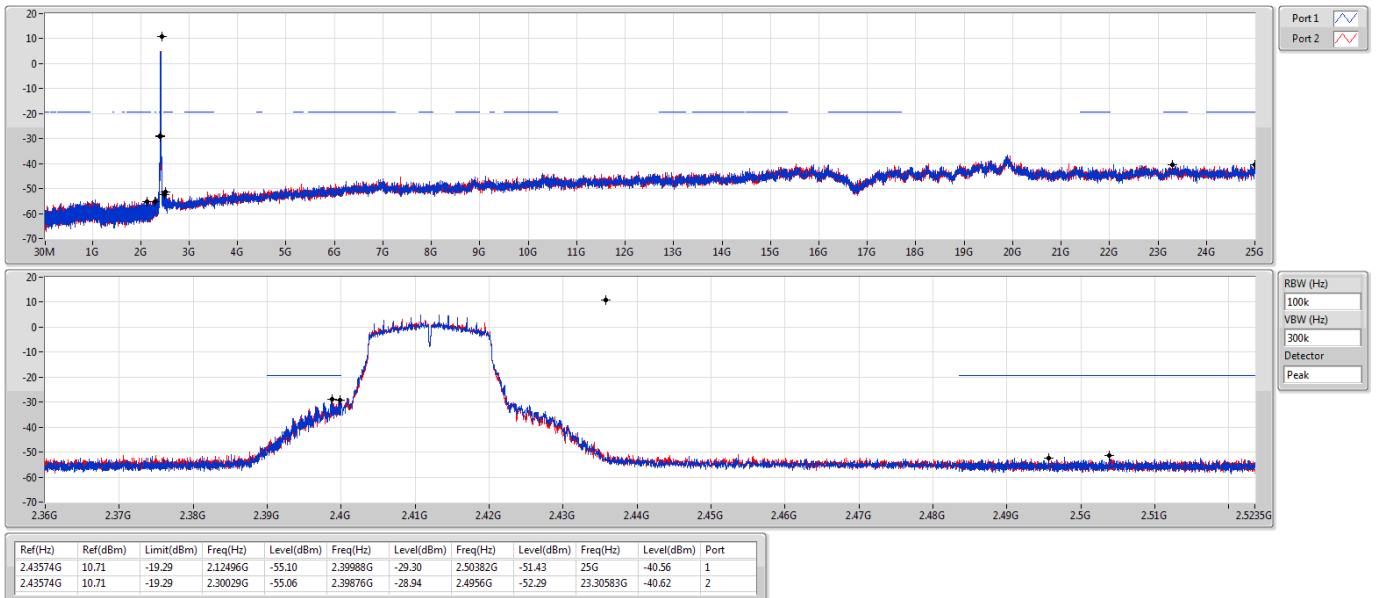
2462MHz



## 802.11g\_Nss1,(6Mbps)\_2TX

CSE NdB

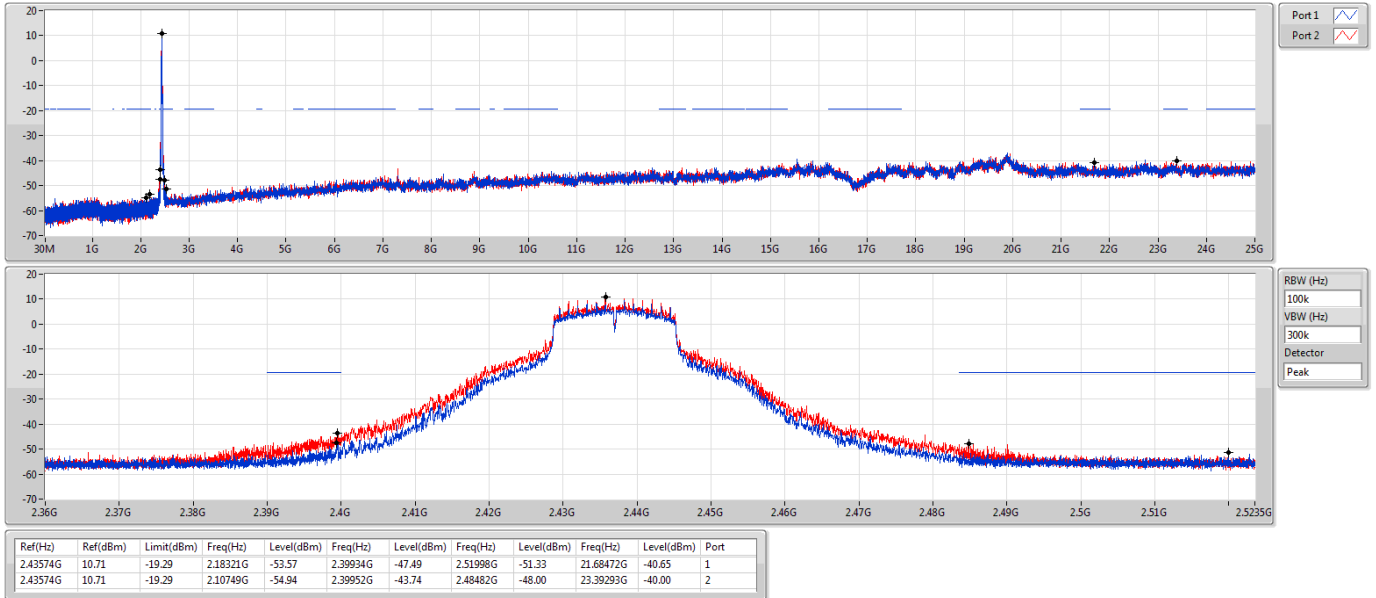
2412MHz



## 802.11g\_Nss1,(6Mbps)\_2TX

CSE NdB

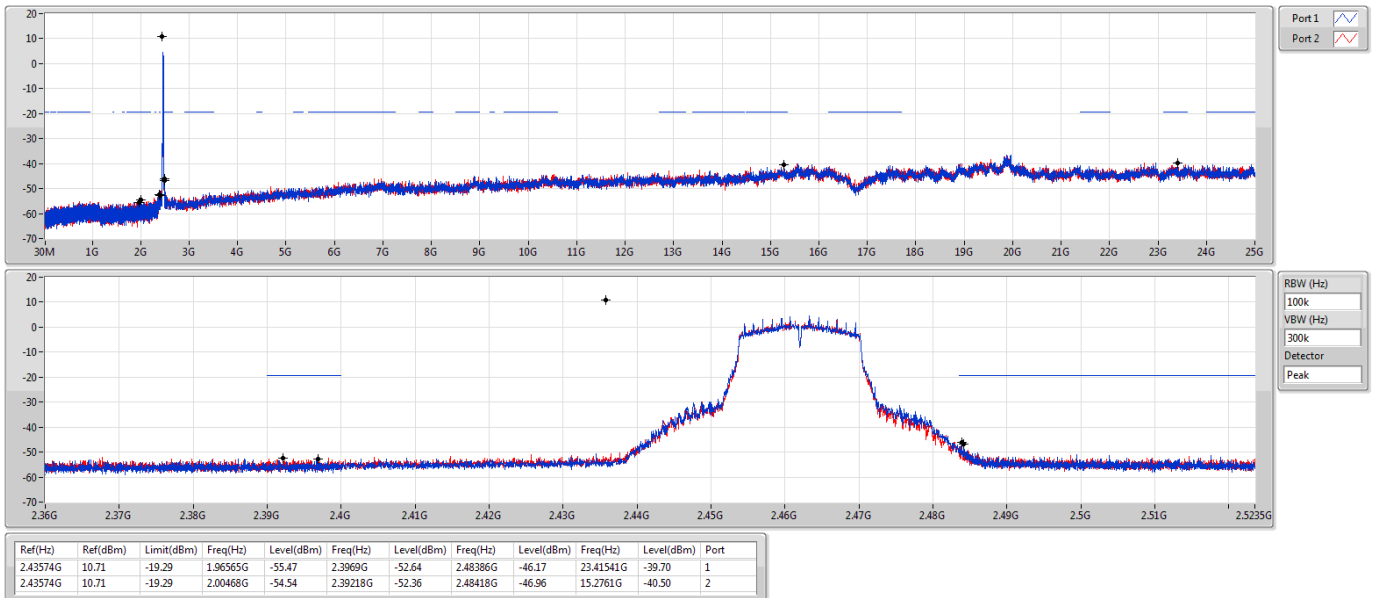
2437MHz



## 802.11g\_Nss1,(6Mbps)\_2TX

CSE NdB

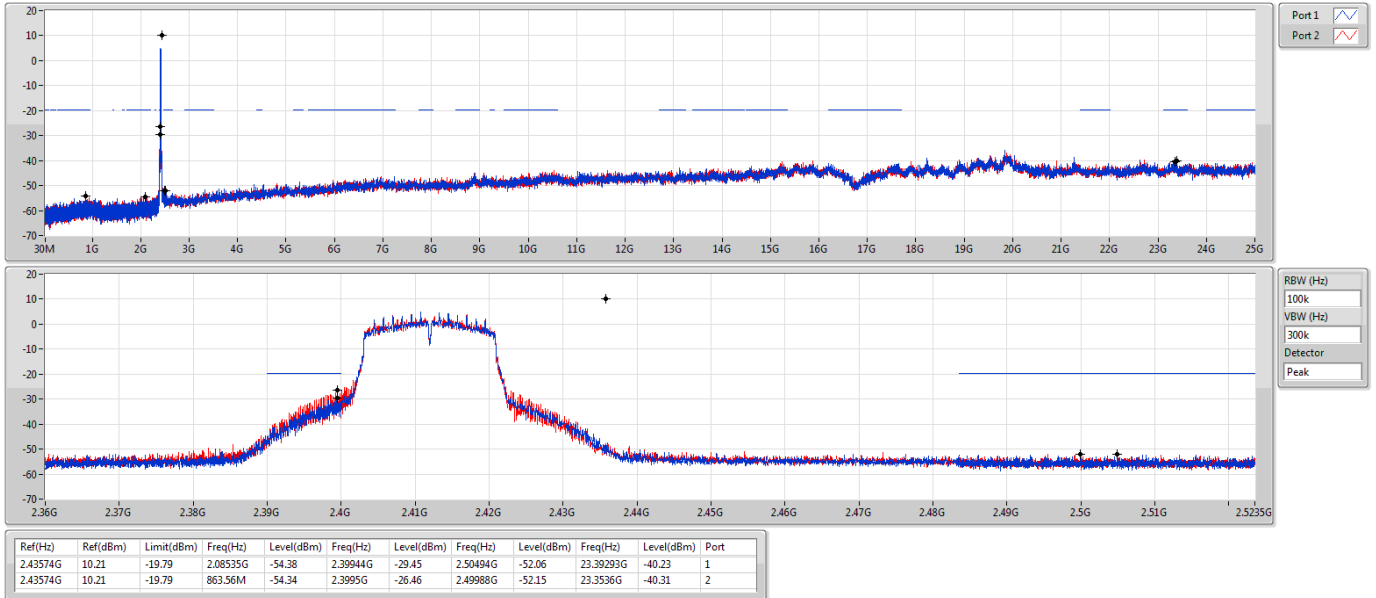
2462MHz



## 802.11n HT20\_Nss1,(MCS0)\_2TX

CSE NdB

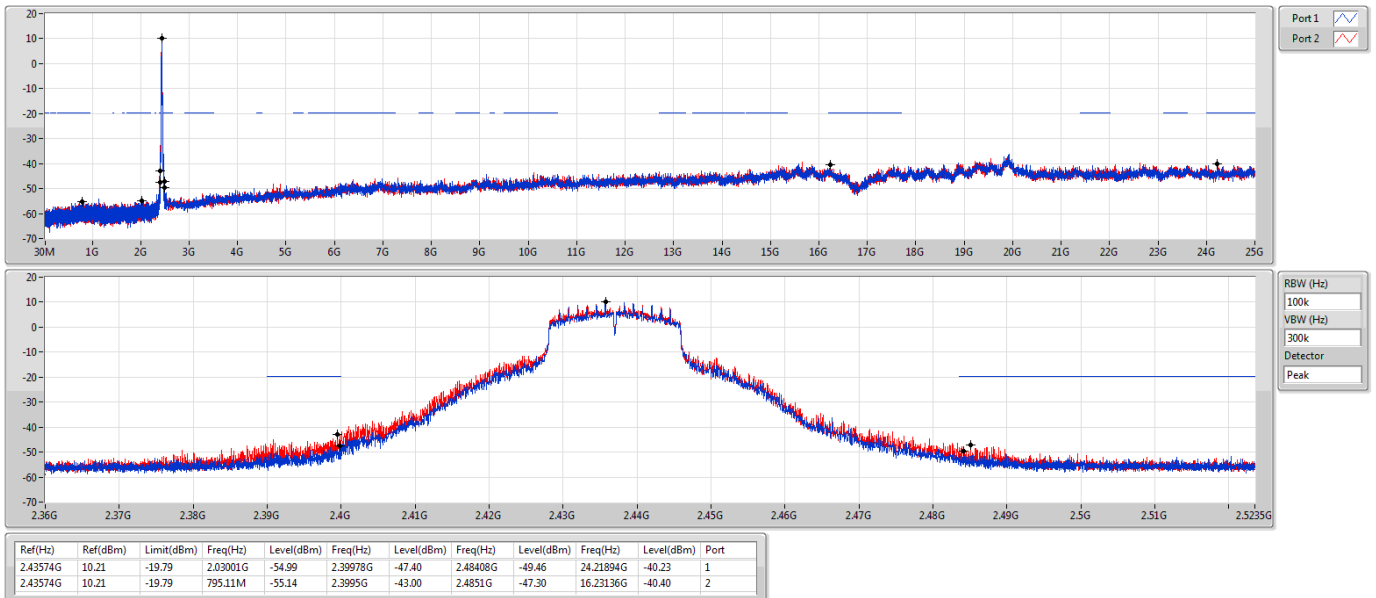
2412MHz



## 802.11n HT20\_Nss1,(MCS0)\_2TX

CSE NdB

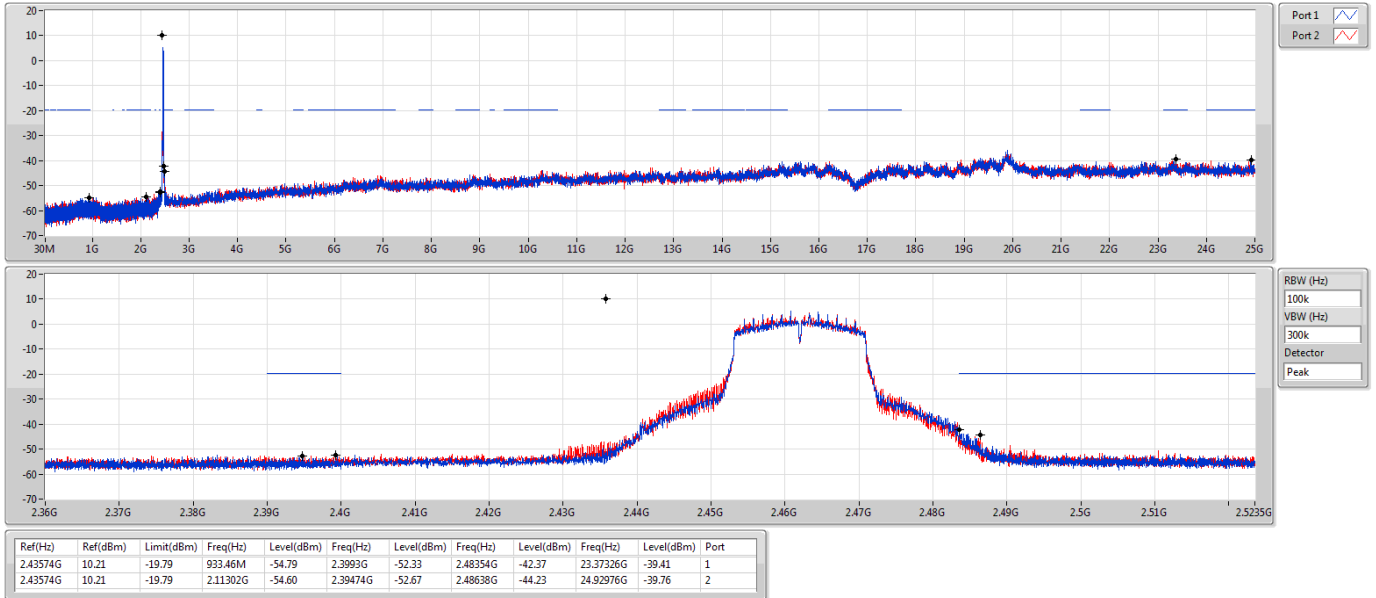
2437MHz



## 802.11n HT20\_Nss1,(MCS0)\_2TX

CSE NdB

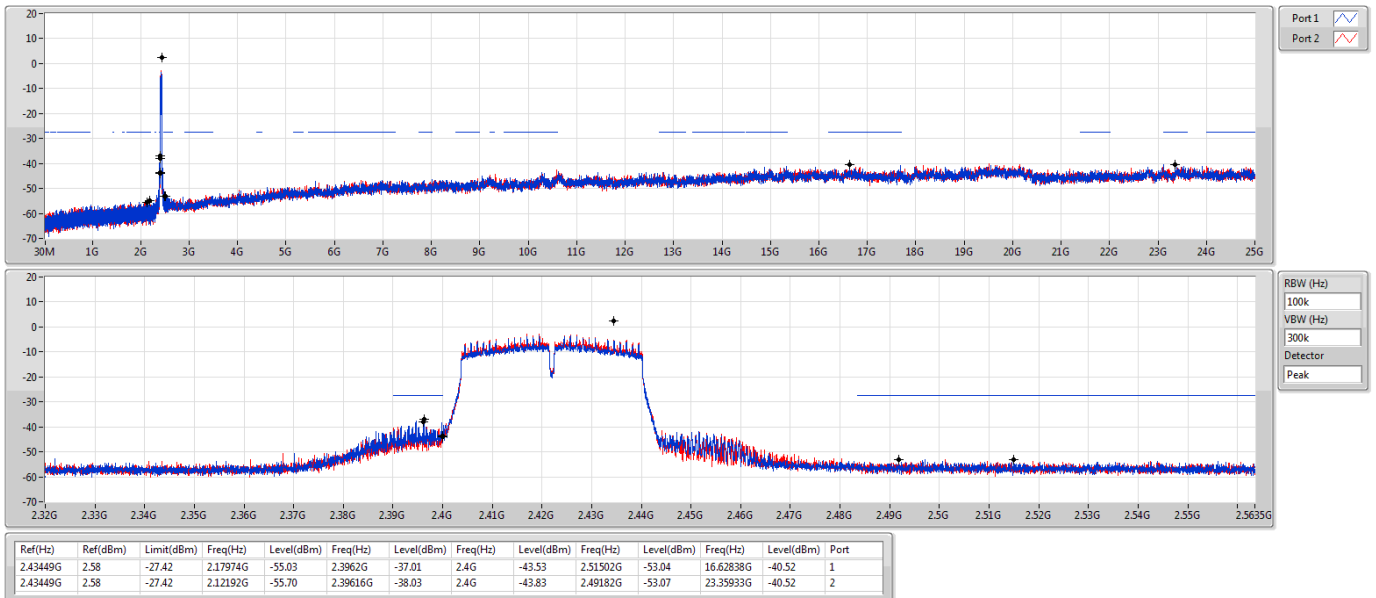
2462MHz



## 802.11n HT40\_Nss1,(MCS0)\_2TX

CSE NdB

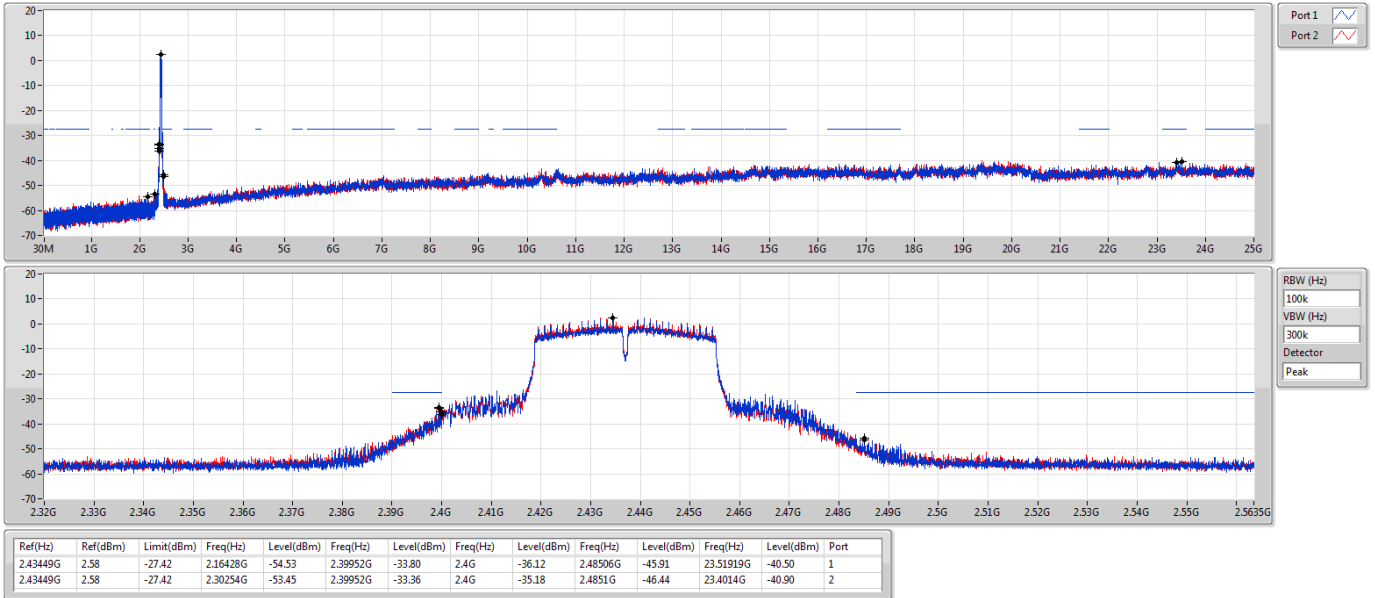
2422MHz



## 802.11n HT40\_Nss1,(MCS0)\_2TX

CSE NdB

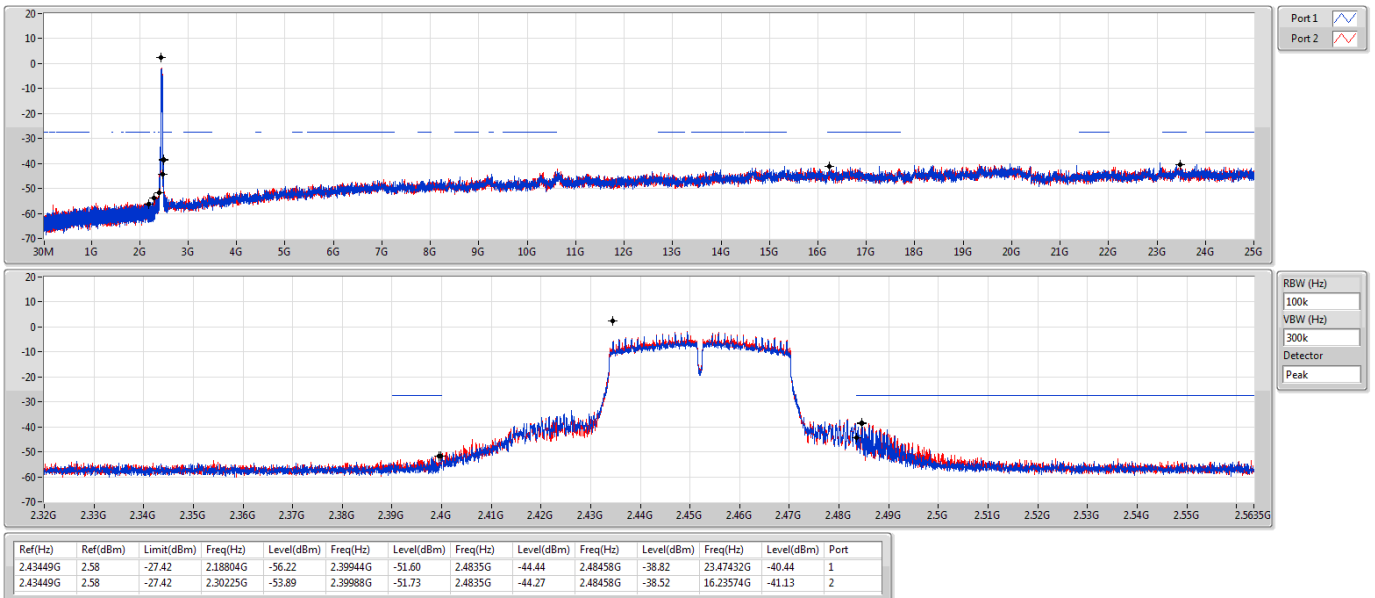
2437MHz



## 802.11n HT40\_Nss1,(MCS0)\_2TX

CSE NdB

2452MHz





**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 HT40_Nss1,(MCS0)_2TX | Pass   | PK   | 41.64M       | 36.41             | 40.00             | -3.59          | 3           | Vertical  | 0              | 1.00          | -        |

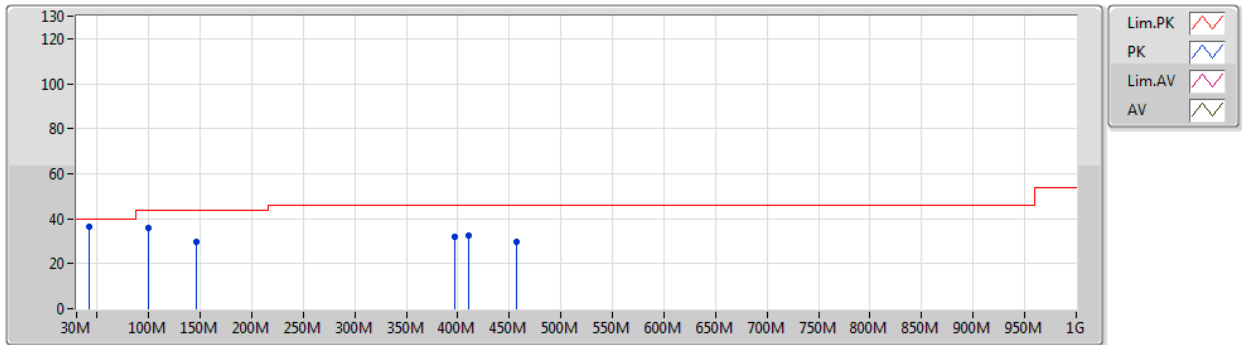
**Result**

| Mode                         | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11n HT40_Nss1_(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2437MHz_USB                  | Pass   | PK   | 41.64M       | 36.41             | 40.00             | -3.59          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 99.84M       | 36.06             | 43.50             | -7.44          | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 146.4M       | 29.46             | 43.50             | -14.04         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 396.66M      | 31.98             | 46.00             | -14.02         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 410.24M      | 32.39             | 46.00             | -13.61         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 456.8M       | 29.93             | 46.00             | -16.07         | 3           | Vertical   | 0              | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 99.84M       | 36.06             | 43.50             | -7.44          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 142.52M      | 33.98             | 43.50             | -9.52          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 266.68M      | 36.22             | 46.00             | -9.78          | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 412.18M      | 33.23             | 46.00             | -12.77         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 456.8M       | 29.93             | 46.00             | -16.07         | 3           | Horizontal | 360            | 1.00          | -        |
| 2437MHz_USB                  | Pass   | PK   | 507.24M      | 27.91             | 46.00             | -18.09         | 3           | Horizontal | 360            | 1.00          | -        |

# 802.11n HT40\_Nss1,(MCS0)\_2TX

02/11/2019

## 2437MHz\_USB

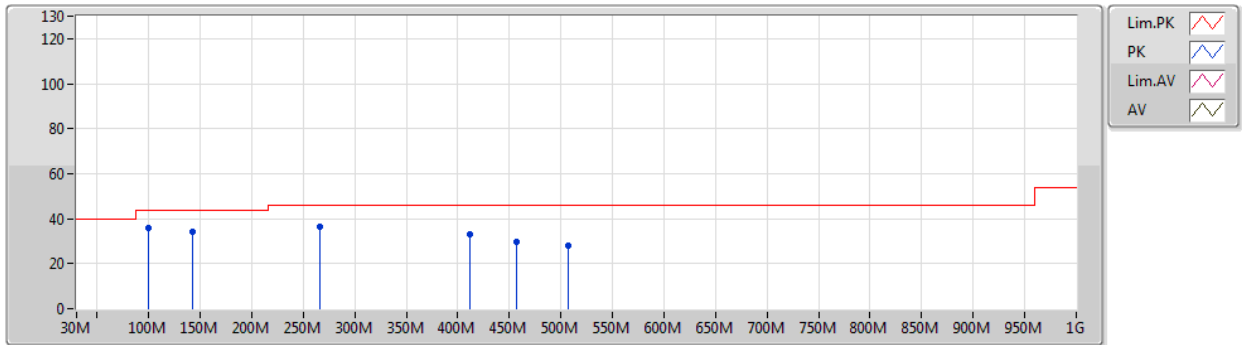


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 41.64M       | 36.41             | 40.00             | -3.59          | -9.86          | 3           | Vertical  | 0              | 1.00          | -       | 46.27         | 16.72      | 0.95       | 27.53      |
| PK   | 99.84M       | 36.06             | 43.50             | -7.44          | -9.79          | 3           | Vertical  | 0              | 1.00          | -       | 45.85         | 16.07      | 1.52       | 27.38      |
| PK   | 146.4M       | 29.46             | 43.50             | -14.04         | -9.57          | 3           | Vertical  | 0              | 1.00          | -       | 39.03         | 15.77      | 1.86       | 27.20      |
| PK   | 396.66M      | 31.98             | 46.00             | -14.02         | -3.39          | 3           | Vertical  | 0              | 1.00          | -       | 35.37         | 20.71      | 3.17       | 27.27      |
| PK   | 410.24M      | 32.39             | 46.00             | -13.61         | -2.77          | 3           | Vertical  | 0              | 1.00          | -       | 35.16         | 21.38      | 3.22       | 27.37      |
| PK   | 456.8M       | 29.93             | 46.00             | -16.07         | -2.20          | 3           | Vertical  | 0              | 1.00          | -       | 32.13         | 22.09      | 3.42       | 27.71      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

02/11/2019

## 2437MHz\_USB



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| PK   | 99.84M       | 36.06             | 43.50             | -7.44          | -9.79          | 3           | Horizontal | 360            | 1.00          | -       | 45.85         | 16.07      | 1.52       | 27.38      |
| PK   | 142.52M      | 33.98             | 43.50             | -9.52          | -9.36          | 3           | Horizontal | 360            | 1.00          | -       | 43.34         | 16.02      | 1.84       | 27.22      |
| PK   | 266.68M      | 36.22             | 46.00             | -9.78          | -5.70          | 3           | Horizontal | 360            | 1.00          | -       | 41.92         | 18.45      | 2.57       | 26.72      |
| PK   | 412.18M      | 33.23             | 46.00             | -12.77         | -2.67          | 3           | Horizontal | 360            | 1.00          | -       | 35.90         | 21.49      | 3.23       | 27.39      |
| PK   | 456.8M       | 29.93             | 46.00             | -16.07         | -2.20          | 3           | Horizontal | 360            | 1.00          | -       | 32.13         | 22.09      | 3.42       | 27.71      |
| PK   | 507.24M      | 27.91             | 46.00             | -18.09         | -1.57          | 3           | Horizontal | 360            | 1.00          | -       | 29.48         | 22.66      | 3.63       | 27.86      |

**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)_2TX     | Pass   | AV   | 4.824G       | 52.83             | 54.00             | -1.17          | 3           | Horizontal | 214            | 1.04          | -        |
| 802.11g_Nss1,(6Mbps)_2TX     | Pass   | AV   | 2.39G        | 52.62             | 54.00             | -1.38          | 3           | Vertical   | 197            | 1.14          | -        |
| 802.11n HT20_Nss1,(MCS0)_2TX | Pass   | AV   | 2.4848G      | 52.88             | 54.00             | -1.12          | 3           | Vertical   | 196            | 1.00          | -        |
| 802.11n HT40_Nss1,(MCS0)_2TX | Pass   | AV   | 2.484G       | 52.87             | 54.00             | -1.13          | 3           | Vertical   | 192            | 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 |
|--------------------------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11b_Nss1,(1Mbps)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 48.39             | 54.00             | -5.61          | 3           | Vertical   | 191            | 1.01          | -        |
| 2412MHz                  | Pass   | AV   | 2.4112G      | 111.45            | Inf               | -Inf           | 3           | Vertical   | 191            | 1.01          | -        |
| 2412MHz                  | Pass   | PK   | 2.3864G      | 60.22             | 74.00             | -13.78         | 3           | Vertical   | 191            | 1.01          | -        |
| 2412MHz                  | Pass   | PK   | 2.4112G      | 113.89            | Inf               | -Inf           | 3           | Vertical   | 191            | 1.01          | -        |
| 2412MHz                  | Pass   | AV   | 2.3856G      | 48.09             | 54.00             | -5.91          | 3           | Horizontal | 176            | 1.45          | -        |
| 2412MHz                  | Pass   | AV   | 2.4128G      | 108.34            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.45          | -        |
| 2412MHz                  | Pass   | PK   | 2.3832G      | 59.90             | 74.00             | -14.10         | 3           | Horizontal | 176            | 1.45          | -        |
| 2412MHz                  | Pass   | PK   | 2.413G       | 110.74            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.45          | -        |
| 2412MHz                  | Pass   | AV   | 4.824G       | 51.73             | 54.00             | -2.27          | 3           | Vertical   | 199            | 2.09          | -        |
| 2412MHz                  | Pass   | PK   | 4.824G       | 54.35             | 74.00             | -19.65         | 3           | Vertical   | 199            | 2.09          | -        |
| 2412MHz                  | Pass   | AV   | 4.824G       | 52.83             | 54.00             | -1.17          | 3           | Horizontal | 214            | 1.04          | -        |
| 2412MHz                  | Pass   | PK   | 4.824G       | 55.03             | 74.00             | -18.97         | 3           | Horizontal | 214            | 1.04          | -        |
| 2437MHz                  | Pass   | AV   | 2.3814G      | 47.28             | 54.00             | -6.72          | 3           | Vertical   | 156            | 1.44          | -        |
| 2437MHz                  | Pass   | AV   | 2.4378G      | 108.27            | Inf               | -Inf           | 3           | Vertical   | 156            | 1.44          | -        |
| 2437MHz                  | Pass   | AV   | 2.4846G      | 47.90             | 54.00             | -6.10          | 3           | Vertical   | 156            | 1.44          | -        |
| 2437MHz                  | Pass   | PK   | 2.3442G      | 59.92             | 74.00             | -14.08         | 3           | Vertical   | 156            | 1.44          | -        |
| 2437MHz                  | Pass   | PK   | 2.4378G      | 110.70            | Inf               | -Inf           | 3           | Vertical   | 156            | 1.44          | -        |
| 2437MHz                  | Pass   | PK   | 2.489G       | 59.82             | 74.00             | -14.18         | 3           | Vertical   | 156            | 1.44          | -        |
| 2437MHz                  | Pass   | AV   | 2.361G       | 47.27             | 54.00             | -6.73          | 3           | Horizontal | 205            | 1.84          | -        |
| 2437MHz                  | Pass   | AV   | 2.4378G      | 105.01            | Inf               | -Inf           | 3           | Horizontal | 205            | 1.84          | -        |
| 2437MHz                  | Pass   | AV   | 2.497G       | 47.90             | 54.00             | -6.10          | 3           | Horizontal | 205            | 1.84          | -        |
| 2437MHz                  | Pass   | PK   | 2.3574G      | 59.30             | 74.00             | -14.70         | 3           | Horizontal | 205            | 1.84          | -        |
| 2437MHz                  | Pass   | PK   | 2.4378G      | 107.46            | Inf               | -Inf           | 3           | Horizontal | 205            | 1.84          | -        |
| 2437MHz                  | Pass   | PK   | 2.489G       | 59.32             | 74.00             | -14.68         | 3           | Horizontal | 205            | 1.84          | -        |
| 2437MHz                  | Pass   | AV   | 4.87394G     | 52.12             | 54.00             | -1.88          | 3           | Vertical   | 170            | 2.09          | -        |
| 2437MHz                  | Pass   | AV   | 7.31022G     | 46.05             | 54.00             | -7.95          | 3           | Vertical   | 199            | 3.00          | -        |
| 2437MHz                  | Pass   | PK   | 4.874G       | 54.96             | 74.00             | -19.04         | 3           | Vertical   | 170            | 2.09          | -        |
| 2437MHz                  | Pass   | PK   | 7.31112G     | 54.82             | 74.00             | -19.18         | 3           | Vertical   | 199            | 3.00          | -        |
| 2437MHz                  | Pass   | AV   | 4.874G       | 51.71             | 54.00             | -2.29          | 3           | Horizontal | 202            | 1.50          | -        |
| 2437MHz                  | Pass   | AV   | 7.31178G     | 42.22             | 54.00             | -11.78         | 3           | Horizontal | 135            | 1.70          | -        |
| 2437MHz                  | Pass   | PK   | 4.87394G     | 54.80             | 74.00             | -19.20         | 3           | Horizontal | 202            | 1.50          | -        |
| 2437MHz                  | Pass   | PK   | 7.31214G     | 52.95             | 74.00             | -21.05         | 3           | Horizontal | 135            | 1.70          | -        |
| 2457MHz                  | Pass   | AV   | 2.4562G      | 110.33            | Inf               | -Inf           | 3           | Vertical   | 165            | 1.39          | -        |
| 2457MHz                  | Pass   | AV   | 2.4842G      | 47.90             | 54.00             | -6.10          | 3           | Vertical   | 165            | 1.39          | -        |
| 2457MHz                  | Pass   | PK   | 2.456G       | 112.72            | Inf               | -Inf           | 3           | Vertical   | 165            | 1.39          | -        |
| 2457MHz                  | Pass   | PK   | 2.4858G      | 60.25             | 74.00             | -13.75         | 3           | Vertical   | 165            | 1.39          | -        |
| 2457MHz                  | Pass   | AV   | 2.4578G      | 107.11            | Inf               | -Inf           | 3           | Horizontal | 207            | 2.18          | -        |
| 2457MHz                  | Pass   | AV   | 2.4842G      | 47.61             | 54.00             | -6.39          | 3           | Horizontal | 207            | 2.18          | -        |
| 2457MHz                  | Pass   | PK   | 2.4578G      | 109.51            | Inf               | -Inf           | 3           | Horizontal | 207            | 2.18          | -        |
| 2457MHz                  | Pass   | PK   | 2.4952G      | 59.83             | 74.00             | -14.17         | 3           | Horizontal | 207            | 2.18          | -        |
| 2462MHz                  | Pass   | AV   | 2.4602G      | 104.97            | Inf               | -Inf           | 3           | Vertical   | 199            | 1.49          | -        |
| 2462MHz                  | Pass   | AV   | 2.4872G      | 47.90             | 54.00             | -6.10          | 3           | Vertical   | 199            | 1.49          | -        |
| 2462MHz                  | Pass   | PK   | 2.4604G      | 107.30            | Inf               | -Inf           | 3           | Vertical   | 199            | 1.49          | -        |
| 2462MHz                  | Pass   | PK   | 2.4872G      | 60.51             | 74.00             | -13.49         | 3           | Vertical   | 199            | 1.49          | -        |
| 2462MHz                  | Pass   | AV   | 2.4592G      | 99.01             | Inf               | -Inf           | 3           | Horizontal | 211            | 2.90          | -        |
| 2462MHz                  | Pass   | AV   | 2.4872G      | 47.90             | 54.00             | -6.10          | 3           | Horizontal | 211            | 2.90          | -        |
| 2462MHz                  | Pass   | PK   | 2.4592G      | 101.87            | Inf               | -Inf           | 3           | Horizontal | 211            | 2.90          | -        |

| 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   | 2.4956G      | 60.18             | 74.00             | -13.82         | 3           | Horizontal | 211            | 2.90          | -        |
| 2462MHz                  | Pass   | AV   | 4.924G       | 48.10             | 54.00             | -5.90          | 3           | Vertical   | 124            | 1.03          | -        |
| 2462MHz                  | Pass   | AV   | 7.38696G     | 43.76             | 54.00             | -10.24         | 3           | Vertical   | 194            | 1.34          | -        |
| 2462MHz                  | Pass   | PK   | 4.924G       | 52.07             | 74.00             | -21.93         | 3           | Vertical   | 124            | 1.03          | -        |
| 2462MHz                  | Pass   | PK   | 7.38708G     | 53.58             | 74.00             | -20.42         | 3           | Vertical   | 194            | 1.34          | -        |
| 2462MHz                  | Pass   | AV   | 4.924G       | 52.67             | 54.00             | -1.33          | 3           | Horizontal | 204            | 1.25          | -        |
| 2462MHz                  | Pass   | AV   | 7.3869G      | 42.95             | 54.00             | -11.05         | 3           | Horizontal | 47             | 2.17          | -        |
| 2462MHz                  | Pass   | PK   | 4.92406G     | 55.64             | 74.00             | -18.36         | 3           | Horizontal | 204            | 1.25          | -        |
| 2462MHz                  | Pass   | PK   | 7.38534G     | 52.97             | 74.00             | -21.03         | 3           | Horizontal | 47             | 2.17          | -        |
| 802.11g_Nss1,(6Mbps)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 52.62             | 54.00             | -1.38          | 3           | Vertical   | 197            | 1.14          | -        |
| 2412MHz                  | Pass   | AV   | 2.411G       | 104.66            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.14          | -        |
| 2412MHz                  | Pass   | PK   | 2.39G        | 65.39             | 74.00             | -8.61          | 3           | Vertical   | 197            | 1.14          | -        |
| 2412MHz                  | Pass   | PK   | 2.4112G      | 112.83            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.14          | -        |
| 2412MHz                  | Pass   | AV   | 2.39G        | 51.49             | 54.00             | -2.51          | 3           | Horizontal | 180            | 2.10          | -        |
| 2412MHz                  | Pass   | AV   | 2.4098G      | 101.50            | Inf               | -Inf           | 3           | Horizontal | 180            | 2.10          | -        |
| 2412MHz                  | Pass   | PK   | 2.3892G      | 64.47             | 74.00             | -9.53          | 3           | Horizontal | 180            | 2.10          | -        |
| 2412MHz                  | Pass   | PK   | 2.4102G      | 109.67            | Inf               | -Inf           | 3           | Horizontal | 180            | 2.10          | -        |
| 2412MHz                  | Pass   | AV   | 4.82262G     | 40.12             | 54.00             | -13.88         | 3           | Vertical   | 257            | 1.17          | -        |
| 2412MHz                  | Pass   | PK   | 4.82358G     | 52.24             | 74.00             | -21.76         | 3           | Vertical   | 257            | 1.17          | -        |
| 2412MHz                  | Pass   | AV   | 4.82286G     | 39.33             | 54.00             | -14.67         | 3           | Horizontal | 116            | 1.04          | -        |
| 2412MHz                  | Pass   | PK   | 4.82274G     | 51.56             | 74.00             | -22.44         | 3           | Horizontal | 116            | 1.04          | -        |
| 2417MHz                  | Pass   | AV   | 2.3884G      | 51.65             | 54.00             | -2.35          | 3           | Vertical   | 195            | 1.00          | -        |
| 2417MHz                  | Pass   | AV   | 2.418G       | 107.98            | Inf               | -Inf           | 3           | Vertical   | 195            | 1.00          | -        |
| 2417MHz                  | Pass   | PK   | 2.3886G      | 70.35             | 74.00             | -3.65          | 3           | Vertical   | 195            | 1.00          | -        |
| 2417MHz                  | Pass   | PK   | 2.4182G      | 116.39            | Inf               | -Inf           | 3           | Vertical   | 195            | 1.00          | -        |
| 2417MHz                  | Pass   | AV   | 2.3874G      | 49.52             | 54.00             | -4.48          | 3           | Horizontal | 179            | 1.46          | -        |
| 2417MHz                  | Pass   | AV   | 2.4176G      | 103.09            | Inf               | -Inf           | 3           | Horizontal | 179            | 1.46          | -        |
| 2417MHz                  | Pass   | PK   | 2.3878G      | 65.12             | 74.00             | -8.88          | 3           | Horizontal | 179            | 1.46          | -        |
| 2417MHz                  | Pass   | PK   | 2.4176G      | 111.33            | Inf               | -Inf           | 3           | Horizontal | 179            | 1.46          | -        |
| 2437MHz                  | Pass   | AV   | 2.3898G      | 48.87             | 54.00             | -5.13          | 3           | Vertical   | 197            | 1.34          | -        |
| 2437MHz                  | Pass   | AV   | 2.4362G      | 109.31            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.34          | -        |
| 2437MHz                  | Pass   | AV   | 2.4835G      | 49.88             | 54.00             | -4.12          | 3           | Vertical   | 197            | 1.34          | -        |
| 2437MHz                  | Pass   | PK   | 2.3898G      | 63.40             | 74.00             | -10.60         | 3           | Vertical   | 197            | 1.34          | -        |
| 2437MHz                  | Pass   | PK   | 2.4358G      | 117.49            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.34          | -        |
| 2437MHz                  | Pass   | PK   | 2.4858G      | 64.10             | 74.00             | -9.90          | 3           | Vertical   | 197            | 1.34          | -        |
| 2437MHz                  | Pass   | AV   | 2.3846G      | 48.08             | 54.00             | -5.92          | 3           | Horizontal | 176            | 1.38          | -        |
| 2437MHz                  | Pass   | AV   | 2.4394G      | 105.67            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.38          | -        |
| 2437MHz                  | Pass   | AV   | 2.4846G      | 48.95             | 54.00             | -5.05          | 3           | Horizontal | 176            | 1.38          | -        |
| 2437MHz                  | Pass   | PK   | 2.3898G      | 59.88             | 74.00             | -14.12         | 3           | Horizontal | 176            | 1.38          | -        |
| 2437MHz                  | Pass   | PK   | 2.435G       | 113.76            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.38          | -        |
| 2437MHz                  | Pass   | PK   | 2.4854G      | 61.32             | 74.00             | -12.68         | 3           | Horizontal | 176            | 1.38          | -        |
| 2437MHz                  | Pass   | AV   | 4.87388G     | 45.12             | 54.00             | -8.88          | 3           | Vertical   | 124            | 1.12          | -        |
| 2437MHz                  | Pass   | AV   | 7.31292G     | 48.70             | 54.00             | -5.30          | 3           | Vertical   | 198            | 2.87          | -        |
| 2437MHz                  | Pass   | PK   | 4.87346G     | 57.35             | 74.00             | -16.65         | 3           | Vertical   | 124            | 1.12          | -        |
| 2437MHz                  | Pass   | PK   | 7.31256G     | 61.73             | 74.00             | -12.27         | 3           | Vertical   | 198            | 2.87          | -        |
| 2437MHz                  | Pass   | AV   | 4.874G       | 45.84             | 54.00             | -8.16          | 3           | Horizontal | 215            | 1.08          | -        |
| 2437MHz                  | Pass   | AV   | 7.31292G     | 48.43             | 54.00             | -5.57          | 3           | Horizontal | 53             | 1.00          | -        |
| 2437MHz                  | Pass   | PK   | 4.87568G     | 57.95             | 74.00             | -16.05         | 3           | Horizontal | 215            | 1.08          | -        |

| 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   | 7.31268G     | 61.05             | 74.00             | -12.95         | 3           | Horizontal | 53             | 1.00          | -        |
| 2457MHz                      | Pass   | AV   | 2.4562G      | 105.87            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.00          | -        |
| 2457MHz                      | Pass   | AV   | 2.4854G      | 52.56             | 54.00             | -1.44          | 3           | Vertical   | 197            | 1.00          | -        |
| 2457MHz                      | Pass   | PK   | 2.4562G      | 114.21            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.00          | -        |
| 2457MHz                      | Pass   | PK   | 2.4866G      | 66.73             | 74.00             | -7.27          | 3           | Vertical   | 197            | 1.00          | -        |
| 2457MHz                      | Pass   | AV   | 2.4594G      | 102.97            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.17          | -        |
| 2457MHz                      | Pass   | AV   | 2.4848G      | 51.70             | 54.00             | -2.30          | 3           | Horizontal | 176            | 1.17          | -        |
| 2457MHz                      | Pass   | PK   | 2.4592G      | 110.59            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.17          | -        |
| 2457MHz                      | Pass   | PK   | 2.4844G      | 67.16             | 74.00             | -6.84          | 3           | Horizontal | 176            | 1.17          | -        |
| 2462MHz                      | Pass   | AV   | 2.463G       | 103.97            | Inf               | -Inf           | 3           | Vertical   | 193            | 1.00          | -        |
| 2462MHz                      | Pass   | AV   | 2.4835G      | 52.04             | 54.00             | -1.96          | 3           | Vertical   | 193            | 1.00          | -        |
| 2462MHz                      | Pass   | PK   | 2.4632G      | 112.44            | Inf               | -Inf           | 3           | Vertical   | 193            | 1.00          | -        |
| 2462MHz                      | Pass   | PK   | 2.4836G      | 65.44             | 74.00             | -8.56          | 3           | Vertical   | 193            | 1.00          | -        |
| 2462MHz                      | Pass   | AV   | 2.4628G      | 100.73            | Inf               | -Inf           | 3           | Horizontal | 179            | 1.47          | -        |
| 2462MHz                      | Pass   | AV   | 2.4835G      | 50.31             | 54.00             | -3.69          | 3           | Horizontal | 179            | 1.47          | -        |
| 2462MHz                      | Pass   | PK   | 2.4628G      | 108.24            | Inf               | -Inf           | 3           | Horizontal | 179            | 1.47          | -        |
| 2462MHz                      | Pass   | PK   | 2.484G       | 62.88             | 74.00             | -11.12         | 3           | Horizontal | 179            | 1.47          | -        |
| 2462MHz                      | Pass   | AV   | 4.92388G     | 39.07             | 54.00             | -14.93         | 3           | Vertical   | 124            | 1.36          | -        |
| 2462MHz                      | Pass   | AV   | 7.38732G     | 40.14             | 54.00             | -13.86         | 3           | Vertical   | 195            | 1.46          | -        |
| 2462MHz                      | Pass   | PK   | 4.92358G     | 51.41             | 74.00             | -22.59         | 3           | Vertical   | 124            | 1.36          | -        |
| 2462MHz                      | Pass   | PK   | 7.38342G     | 53.17             | 74.00             | -20.83         | 3           | Vertical   | 195            | 1.46          | -        |
| 2462MHz                      | Pass   | AV   | 4.92754G     | 41.75             | 54.00             | -12.25         | 3           | Horizontal | 204            | 1.26          | -        |
| 2462MHz                      | Pass   | AV   | 7.37694G     | 39.43             | 54.00             | -14.57         | 3           | Horizontal | 193            | 1.50          | -        |
| 2462MHz                      | Pass   | PK   | 4.92358G     | 54.32             | 74.00             | -19.68         | 3           | Horizontal | 204            | 1.26          | -        |
| 2462MHz                      | Pass   | PK   | 7.39026G     | 51.71             | 74.00             | -22.29         | 3           | Horizontal | 193            | 1.50          | -        |
| 802.11n HT20_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2412MHz                      | Pass   | AV   | 2.3888G      | 52.30             | 54.00             | -1.70          | 3           | Vertical   | 195            | 1.13          | -        |
| 2412MHz                      | Pass   | AV   | 2.4114G      | 102.68            | Inf               | -Inf           | 3           | Vertical   | 195            | 1.13          | -        |
| 2412MHz                      | Pass   | PK   | 2.389G       | 69.03             | 74.00             | -4.97          | 3           | Vertical   | 195            | 1.13          | -        |
| 2412MHz                      | Pass   | PK   | 2.4114G      | 110.89            | Inf               | -Inf           | 3           | Vertical   | 195            | 1.13          | -        |
| 2412MHz                      | Pass   | AV   | 2.39G        | 51.13             | 54.00             | -2.87          | 3           | Horizontal | 176            | 1.46          | -        |
| 2412MHz                      | Pass   | AV   | 2.4108G      | 99.65             | Inf               | -Inf           | 3           | Horizontal | 176            | 1.46          | -        |
| 2412MHz                      | Pass   | PK   | 2.389G       | 65.38             | 74.00             | -8.62          | 3           | Horizontal | 176            | 1.46          | -        |
| 2412MHz                      | Pass   | PK   | 2.4112G      | 107.37            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.46          | -        |
| 2412MHz                      | Pass   | AV   | 4.82376G     | 40.42             | 54.00             | -13.58         | 3           | Vertical   | 256            | 1.16          | -        |
| 2412MHz                      | Pass   | PK   | 4.82604G     | 53.23             | 74.00             | -20.77         | 3           | Vertical   | 256            | 1.16          | -        |
| 2412MHz                      | Pass   | AV   | 4.8234G      | 38.69             | 54.00             | -15.31         | 3           | Horizontal | 132            | 1.00          | -        |
| 2412MHz                      | Pass   | PK   | 4.82604G     | 51.97             | 74.00             | -22.03         | 3           | Horizontal | 132            | 1.00          | -        |
| 2417MHz                      | Pass   | AV   | 2.3886G      | 52.46             | 54.00             | -1.54          | 3           | Vertical   | 193            | 1.01          | -        |
| 2417MHz                      | Pass   | AV   | 2.4188G      | 107.28            | Inf               | -Inf           | 3           | Vertical   | 193            | 1.01          | -        |
| 2417MHz                      | Pass   | PK   | 2.389G       | 72.28             | 74.00             | -1.72          | 3           | Vertical   | 193            | 1.01          | -        |
| 2417MHz                      | Pass   | PK   | 2.4164G      | 115.64            | Inf               | -Inf           | 3           | Vertical   | 193            | 1.01          | -        |
| 2417MHz                      | Pass   | AV   | 2.3886G      | 51.12             | 54.00             | -2.88          | 3           | Horizontal | 177            | 1.47          | -        |
| 2417MHz                      | Pass   | AV   | 2.4182G      | 104.47            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.47          | -        |
| 2417MHz                      | Pass   | PK   | 2.3888G      | 68.46             | 74.00             | -5.54          | 3           | Horizontal | 177            | 1.47          | -        |
| 2417MHz                      | Pass   | PK   | 2.4158G      | 112.14            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.47          | -        |
| 2437MHz                      | Pass   | AV   | 2.3898G      | 48.14             | 54.00             | -5.86          | 3           | Vertical   | 197            | 1.32          | -        |
| 2437MHz                      | Pass   | AV   | 2.4378G      | 106.48            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.32          | -        |
| 2437MHz                      | Pass   | AV   | 2.4835G      | 49.18             | 54.00             | -4.82          | 3           | Vertical   | 197            | 1.32          | -        |

| 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   | 2.3894G      | 61.92             | 74.00             | -12.08         | 3           | Vertical   | 197            | 1.32          | -        |
| 2437MHz                      | Pass   | PK   | 2.4378G      | 114.89            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.32          | -        |
| 2437MHz                      | Pass   | PK   | 2.4874G      | 63.04             | 74.00             | -10.96         | 3           | Vertical   | 197            | 1.32          | -        |
| 2437MHz                      | Pass   | AV   | 2.389G       | 47.87             | 54.00             | -6.13          | 3           | Horizontal | 177            | 1.39          | -        |
| 2437MHz                      | Pass   | AV   | 2.4398G      | 102.38            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.39          | -        |
| 2437MHz                      | Pass   | AV   | 2.4854G      | 48.70             | 54.00             | -5.30          | 3           | Horizontal | 177            | 1.39          | -        |
| 2437MHz                      | Pass   | PK   | 2.3666G      | 60.32             | 74.00             | -13.68         | 3           | Horizontal | 177            | 1.39          | -        |
| 2437MHz                      | Pass   | PK   | 2.4394G      | 110.02            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.39          | -        |
| 2437MHz                      | Pass   | PK   | 2.4866G      | 60.04             | 74.00             | -13.96         | 3           | Horizontal | 177            | 1.39          | -        |
| 2437MHz                      | Pass   | AV   | 4.87388G     | 45.19             | 54.00             | -8.81          | 3           | Vertical   | 125            | 1.09          | -        |
| 2437MHz                      | Pass   | AV   | 7.3116G      | 48.32             | 54.00             | -5.68          | 3           | Vertical   | 197            | 2.83          | -        |
| 2437MHz                      | Pass   | PK   | 4.87112G     | 56.90             | 74.00             | -17.10         | 3           | Vertical   | 125            | 1.09          | -        |
| 2437MHz                      | Pass   | PK   | 7.30716G     | 62.11             | 74.00             | -11.89         | 3           | Vertical   | 197            | 2.83          | -        |
| 2437MHz                      | Pass   | AV   | 4.87586G     | 45.21             | 54.00             | -8.79          | 3           | Horizontal | 203            | 1.17          | -        |
| 2437MHz                      | Pass   | AV   | 7.31208G     | 47.83             | 54.00             | -6.17          | 3           | Horizontal | 52             | 1.00          | -        |
| 2437MHz                      | Pass   | PK   | 4.87328G     | 56.99             | 74.00             | -17.01         | 3           | Horizontal | 203            | 1.17          | -        |
| 2437MHz                      | Pass   | PK   | 7.31676G     | 61.57             | 74.00             | -12.43         | 3           | Horizontal | 52             | 1.00          | -        |
| 2457MHz                      | Pass   | AV   | 2.4576G      | 106.93            | Inf               | -Inf           | 3           | Vertical   | 196            | 1.00          | -        |
| 2457MHz                      | Pass   | AV   | 2.4848G      | 52.88             | 54.00             | -1.12          | 3           | Vertical   | 196            | 1.00          | -        |
| 2457MHz                      | Pass   | PK   | 2.4576G      | 115.51            | Inf               | -Inf           | 3           | Vertical   | 196            | 1.00          | -        |
| 2457MHz                      | Pass   | PK   | 2.4835G      | 71.77             | 74.00             | -2.23          | 3           | Vertical   | 196            | 1.00          | -        |
| 2457MHz                      | Pass   | AV   | 2.4594G      | 103.67            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.16          | -        |
| 2457MHz                      | Pass   | AV   | 2.4848G      | 51.51             | 54.00             | -2.49          | 3           | Horizontal | 176            | 1.16          | -        |
| 2457MHz                      | Pass   | PK   | 2.4596G      | 111.36            | Inf               | -Inf           | 3           | Horizontal | 176            | 1.16          | -        |
| 2457MHz                      | Pass   | PK   | 2.4846G      | 68.71             | 74.00             | -5.29          | 3           | Horizontal | 176            | 1.16          | -        |
| 2462MHz                      | Pass   | AV   | 2.4614G      | 103.38            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.00          | -        |
| 2462MHz                      | Pass   | AV   | 2.484G       | 52.87             | 54.00             | -1.13          | 3           | Vertical   | 197            | 1.00          | -        |
| 2462MHz                      | Pass   | PK   | 2.464G       | 111.88            | Inf               | -Inf           | 3           | Vertical   | 197            | 1.00          | -        |
| 2462MHz                      | Pass   | PK   | 2.4844G      | 66.50             | 74.00             | -7.50          | 3           | Vertical   | 197            | 1.00          | -        |
| 2462MHz                      | Pass   | AV   | 2.4634G      | 100.72            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.47          | -        |
| 2462MHz                      | Pass   | AV   | 2.4835G      | 52.54             | 54.00             | -1.46          | 3           | Horizontal | 177            | 1.47          | -        |
| 2462MHz                      | Pass   | PK   | 2.4608G      | 108.56            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.47          | -        |
| 2462MHz                      | Pass   | PK   | 2.4835G      | 67.88             | 74.00             | -6.12          | 3           | Horizontal | 177            | 1.47          | -        |
| 2462MHz                      | Pass   | AV   | 4.92418G     | 39.23             | 54.00             | -14.77         | 3           | Vertical   | 124            | 1.37          | -        |
| 2462MHz                      | Pass   | AV   | 7.3845G      | 40.55             | 54.00             | -13.45         | 3           | Vertical   | 193            | 1.50          | -        |
| 2462MHz                      | Pass   | PK   | 4.92508G     | 51.89             | 74.00             | -22.11         | 3           | Vertical   | 124            | 1.37          | -        |
| 2462MHz                      | Pass   | PK   | 7.38234G     | 53.65             | 74.00             | -20.35         | 3           | Vertical   | 193            | 1.50          | -        |
| 2462MHz                      | Pass   | AV   | 4.92658G     | 42.23             | 54.00             | -11.77         | 3           | Horizontal | 204            | 1.26          | -        |
| 2462MHz                      | Pass   | AV   | 7.38696G     | 40.24             | 54.00             | -13.76         | 3           | Horizontal | 47             | 2.23          | -        |
| 2462MHz                      | Pass   | PK   | 4.92592G     | 56.18             | 74.00             | -17.82         | 3           | Horizontal | 204            | 1.26          | -        |
| 2462MHz                      | Pass   | PK   | 7.38288G     | 52.48             | 74.00             | -21.52         | 3           | Horizontal | 47             | 2.23          | -        |
| 802.11n HT40_Nss1,(MCS0)_2TX | -      | -    | -            | -                 | -                 | -              | -           | -          | -              | -             | -        |
| 2422MHz                      | Pass   | AV   | 2.39G        | 52.58             | 54.00             | -1.42          | 3           | Vertical   | 341            | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 2.42G        | 91.75             | Inf               | -Inf           | 3           | Vertical   | 341            | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 2.4904G      | 48.56             | 54.00             | -5.44          | 3           | Vertical   | 341            | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 2.39G        | 69.80             | 74.00             | -4.20          | 3           | Vertical   | 341            | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 2.4176G      | 100.38            | Inf               | -Inf           | 3           | Vertical   | 341            | 1.50          | -        |
| 2422MHz                      | Pass   | PK   | 2.4916G      | 59.94             | 74.00             | -14.06         | 3           | Vertical   | 341            | 1.50          | -        |
| 2422MHz                      | Pass   | AV   | 2.39G        | 52.43             | 54.00             | -1.57          | 3           | Horizontal | 81             | 1.00          | -        |

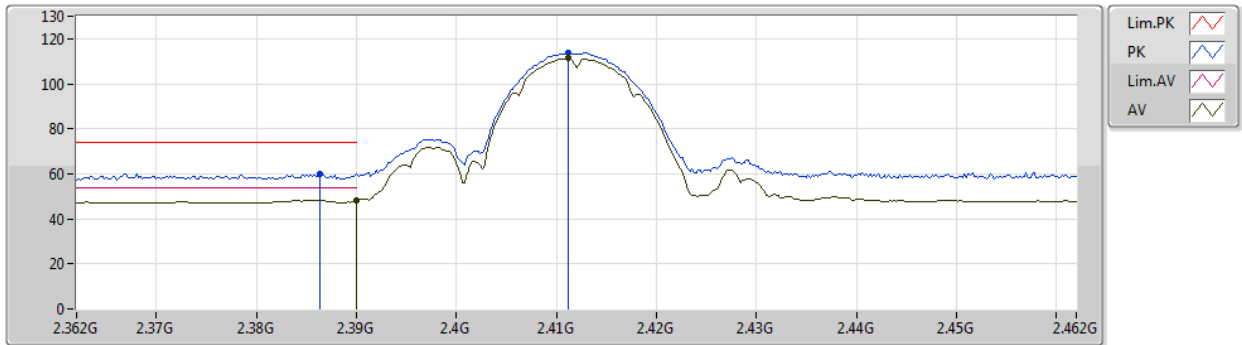
| Mode    | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|---------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2422MHz | Pass   | AV   | 2.4204G      | 92.35             | Inf               | -Inf           | 3           | Horizontal | 81             | 1.00          | -        |
| 2422MHz | Pass   | AV   | 2.4964G      | 48.75             | 54.00             | -5.25          | 3           | Horizontal | 81             | 1.00          | -        |
| 2422MHz | Pass   | PK   | 2.39G        | 69.73             | 74.00             | -4.27          | 3           | Horizontal | 81             | 1.00          | -        |
| 2422MHz | Pass   | PK   | 2.4252G      | 100.86            | Inf               | -Inf           | 3           | Horizontal | 81             | 1.00          | -        |
| 2422MHz | Pass   | PK   | 2.4912G      | 59.77             | 74.00             | -14.23         | 3           | Horizontal | 81             | 1.00          | -        |
| 2422MHz | Pass   | AV   | 4.84006G     | 36.34             | 54.00             | -17.66         | 3           | Vertical   | 307            | 1.50          | -        |
| 2422MHz | Pass   | AV   | 7.2646G      | 41.80             | 54.00             | -12.20         | 3           | Vertical   | 275            | 3.00          | -        |
| 2422MHz | Pass   | PK   | 4.84522G     | 49.04             | 74.00             | -24.96         | 3           | Vertical   | 307            | 1.50          | -        |
| 2422MHz | Pass   | PK   | 7.26936G     | 54.29             | 74.00             | -19.71         | 3           | Vertical   | 275            | 3.00          | -        |
| 2422MHz | Pass   | AV   | 4.8445G      | 36.95             | 54.00             | -17.05         | 3           | Horizontal | 190            | 1.73          | -        |
| 2422MHz | Pass   | AV   | 7.26186G     | 41.89             | 54.00             | -12.11         | 3           | Horizontal | 102            | 1.97          | -        |
| 2422MHz | Pass   | PK   | 4.8447G      | 49.35             | 74.00             | -24.65         | 3           | Horizontal | 190            | 1.73          | -        |
| 2422MHz | Pass   | PK   | 7.26792G     | 54.15             | 74.00             | -19.85         | 3           | Horizontal | 102            | 1.97          | -        |
| 2427MHz | Pass   | AV   | 2.3894G      | 52.29             | 54.00             | -1.71          | 3           | Vertical   | 344            | 1.03          | -        |
| 2427MHz | Pass   | AV   | 2.4286G      | 92.93             | Inf               | -Inf           | 3           | Vertical   | 344            | 1.03          | -        |
| 2427MHz | Pass   | AV   | 2.4978G      | 48.83             | 54.00             | -5.17          | 3           | Vertical   | 344            | 1.03          | -        |
| 2427MHz | Pass   | PK   | 2.3886G      | 66.12             | 74.00             | -7.88          | 3           | Vertical   | 344            | 1.03          | -        |
| 2427MHz | Pass   | PK   | 2.429G       | 101.25            | Inf               | -Inf           | 3           | Vertical   | 344            | 1.03          | -        |
| 2427MHz | Pass   | PK   | 2.4954G      | 60.94             | 74.00             | -13.06         | 3           | Vertical   | 344            | 1.03          | -        |
| 2427MHz | Pass   | AV   | 2.3894G      | 52.71             | 54.00             | -1.29          | 3           | Horizontal | 87             | 1.00          | -        |
| 2427MHz | Pass   | AV   | 2.4238G      | 92.53             | Inf               | -Inf           | 3           | Horizontal | 87             | 1.00          | -        |
| 2427MHz | Pass   | AV   | 2.4994G      | 48.58             | 54.00             | -5.42          | 3           | Horizontal | 87             | 1.00          | -        |
| 2427MHz | Pass   | PK   | 2.389G       | 65.49             | 74.00             | -8.51          | 3           | Horizontal | 87             | 1.00          | -        |
| 2427MHz | Pass   | PK   | 2.429G       | 101.40            | Inf               | -Inf           | 3           | Horizontal | 87             | 1.00          | -        |
| 2427MHz | Pass   | PK   | 2.493G       | 60.03             | 74.00             | -13.97         | 3           | Horizontal | 87             | 1.00          | -        |
| 2437MHz | Pass   | AV   | 2.3886G      | 52.31             | 54.00             | -1.69          | 3           | Vertical   | 191            | 1.18          | -        |
| 2437MHz | Pass   | AV   | 2.4386G      | 101.14            | Inf               | -Inf           | 3           | Vertical   | 191            | 1.18          | -        |
| 2437MHz | Pass   | AV   | 2.4835G      | 52.21             | 54.00             | -1.79          | 3           | Vertical   | 191            | 1.18          | -        |
| 2437MHz | Pass   | PK   | 2.3834G      | 66.08             | 74.00             | -7.92          | 3           | Vertical   | 191            | 1.18          | -        |
| 2437MHz | Pass   | PK   | 2.439G       | 108.65            | Inf               | -Inf           | 3           | Vertical   | 191            | 1.18          | -        |
| 2437MHz | Pass   | PK   | 2.4835G      | 66.58             | 74.00             | -7.42          | 3           | Vertical   | 191            | 1.18          | -        |
| 2437MHz | Pass   | AV   | 2.3898G      | 51.31             | 54.00             | -2.69          | 3           | Horizontal | 177            | 1.40          | -        |
| 2437MHz | Pass   | AV   | 2.4382G      | 98.30             | Inf               | -Inf           | 3           | Horizontal | 177            | 1.40          | -        |
| 2437MHz | Pass   | AV   | 2.4835G      | 51.68             | 54.00             | -2.32          | 3           | Horizontal | 177            | 1.40          | -        |
| 2437MHz | Pass   | PK   | 2.3882G      | 64.83             | 74.00             | -9.17          | 3           | Horizontal | 177            | 1.40          | -        |
| 2437MHz | Pass   | PK   | 2.4382G      | 105.85            | Inf               | -Inf           | 3           | Horizontal | 177            | 1.40          | -        |
| 2437MHz | Pass   | PK   | 2.4835G      | 65.44             | 74.00             | -8.56          | 3           | Horizontal | 177            | 1.40          | -        |
| 2437MHz | Pass   | AV   | 4.87394G     | 39.82             | 54.00             | -14.18         | 3           | Vertical   | 124            | 1.11          | -        |
| 2437MHz | Pass   | AV   | 7.31598G     | 41.71             | 54.00             | -12.29         | 3           | Vertical   | 198            | 3.00          | -        |
| 2437MHz | Pass   | PK   | 4.87358G     | 50.61             | 74.00             | -23.39         | 3           | Vertical   | 124            | 1.11          | -        |
| 2437MHz | Pass   | PK   | 7.31976G     | 53.33             | 74.00             | -20.67         | 3           | Vertical   | 198            | 3.00          | -        |
| 2437MHz | Pass   | AV   | 4.8737G      | 39.62             | 54.00             | -14.38         | 3           | Horizontal | 203            | 1.25          | -        |
| 2437MHz | Pass   | AV   | 7.3011G      | 40.73             | 54.00             | -13.27         | 3           | Horizontal | 89             | 2.43          | -        |
| 2437MHz | Pass   | PK   | 4.87556G     | 50.38             | 74.00             | -23.62         | 3           | Horizontal | 203            | 1.25          | -        |
| 2437MHz | Pass   | PK   | 7.3176G      | 52.41             | 74.00             | -21.59         | 3           | Horizontal | 89             | 2.43          | -        |
| 2447MHz | Pass   | AV   | 2.3778G      | 48.58             | 54.00             | -5.42          | 3           | Vertical   | 194            | 1.00          | -        |
| 2447MHz | Pass   | AV   | 2.4502G      | 96.99             | Inf               | -Inf           | 3           | Vertical   | 194            | 1.00          | -        |
| 2447MHz | Pass   | AV   | 2.4835G      | 52.86             | 54.00             | -1.14          | 3           | Vertical   | 194            | 1.00          | -        |
| 2447MHz | Pass   | PK   | 2.3578G      | 60.17             | 74.00             | -13.83         | 3           | Vertical   | 194            | 1.00          | -        |

| 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 |
|---------|--------|------|--------------|-------------------|-------------------|----------------|-------------|------------|----------------|---------------|----------|
| 2447MHz | Pass   | PK   | 2.4502G      | 105.75            | Inf               | -Inf           | 3           | Vertical   | 194            | 1.00          | -        |
| 2447MHz | Pass   | PK   | 2.485G       | 71.12             | 74.00             | -2.88          | 3           | Vertical   | 194            | 1.00          | -        |
| 2447MHz | Pass   | AV   | 2.3654G      | 48.81             | 54.00             | -5.19          | 3           | Horizontal | 178            | 1.75          | -        |
| 2447MHz | Pass   | AV   | 2.4498G      | 93.69             | Inf               | -Inf           | 3           | Horizontal | 178            | 1.75          | -        |
| 2447MHz | Pass   | AV   | 2.485G       | 51.70             | 54.00             | -2.30          | 3           | Horizontal | 178            | 1.75          | -        |
| 2447MHz | Pass   | PK   | 2.3826G      | 59.43             | 74.00             | -14.57         | 3           | Horizontal | 178            | 1.75          | -        |
| 2447MHz | Pass   | PK   | 2.445G       | 101.40            | Inf               | -Inf           | 3           | Horizontal | 178            | 1.75          | -        |
| 2447MHz | Pass   | PK   | 2.4846G      | 69.37             | 74.00             | -4.63          | 3           | Horizontal | 178            | 1.75          | -        |
| 2452MHz | Pass   | AV   | 2.3824G      | 48.82             | 54.00             | -5.18          | 3           | Vertical   | 192            | 1.00          | -        |
| 2452MHz | Pass   | AV   | 2.4536G      | 96.36             | Inf               | -Inf           | 3           | Vertical   | 192            | 1.00          | -        |
| 2452MHz | Pass   | AV   | 2.484G       | 52.87             | 54.00             | -1.13          | 3           | Vertical   | 192            | 1.00          | -        |
| 2452MHz | Pass   | PK   | 2.3556G      | 59.32             | 74.00             | -14.68         | 3           | Vertical   | 192            | 1.00          | -        |
| 2452MHz | Pass   | PK   | 2.4488G      | 104.96            | Inf               | -Inf           | 3           | Vertical   | 192            | 1.00          | -        |
| 2452MHz | Pass   | PK   | 2.4864G      | 71.91             | 74.00             | -2.09          | 3           | Vertical   | 192            | 1.00          | -        |
| 2452MHz | Pass   | AV   | 2.39G        | 48.39             | 54.00             | -5.61          | 3           | Horizontal | 176            | 1.25          | -        |
| 2452MHz | Pass   | AV   | 2.4532G      | 92.98             | Inf               | -Inf           | 3           | Horizontal | 176            | 1.25          | -        |
| 2452MHz | Pass   | AV   | 2.4835G      | 50.52             | 54.00             | -3.48          | 3           | Horizontal | 176            | 1.25          | -        |
| 2452MHz | Pass   | PK   | 2.3832G      | 59.36             | 74.00             | -14.64         | 3           | Horizontal | 176            | 1.25          | -        |
| 2452MHz | Pass   | PK   | 2.4508G      | 99.91             | Inf               | -Inf           | 3           | Horizontal | 176            | 1.25          | -        |
| 2452MHz | Pass   | PK   | 2.4835G      | 67.71             | 74.00             | -6.29          | 3           | Horizontal | 176            | 1.25          | -        |
| 2452MHz | Pass   | AV   | 4.9037G      | 36.37             | 54.00             | -17.63         | 3           | Vertical   | 125            | 1.15          | -        |
| 2452MHz | Pass   | AV   | 7.34316G     | 40.42             | 54.00             | -13.58         | 3           | Vertical   | 331            | 1.42          | -        |
| 2452MHz | Pass   | PK   | 4.91318G     | 47.35             | 74.00             | -26.65         | 3           | Vertical   | 125            | 1.15          | -        |
| 2452MHz | Pass   | PK   | 7.3506G      | 52.29             | 74.00             | -21.71         | 3           | Vertical   | 331            | 1.42          | -        |
| 2452MHz | Pass   | AV   | 4.904G       | 36.86             | 54.00             | -17.14         | 3           | Horizontal | 205            | 1.32          | -        |
| 2452MHz | Pass   | AV   | 7.36254G     | 40.39             | 54.00             | -13.61         | 3           | Horizontal | 121            | 1.50          | -        |
| 2452MHz | Pass   | PK   | 4.91384G     | 48.21             | 74.00             | -25.79         | 3           | Horizontal | 205            | 1.32          | -        |
| 2452MHz | Pass   | PK   | 7.35396G     | 51.53             | 74.00             | -22.47         | 3           | Horizontal | 121            | 1.50          | -        |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

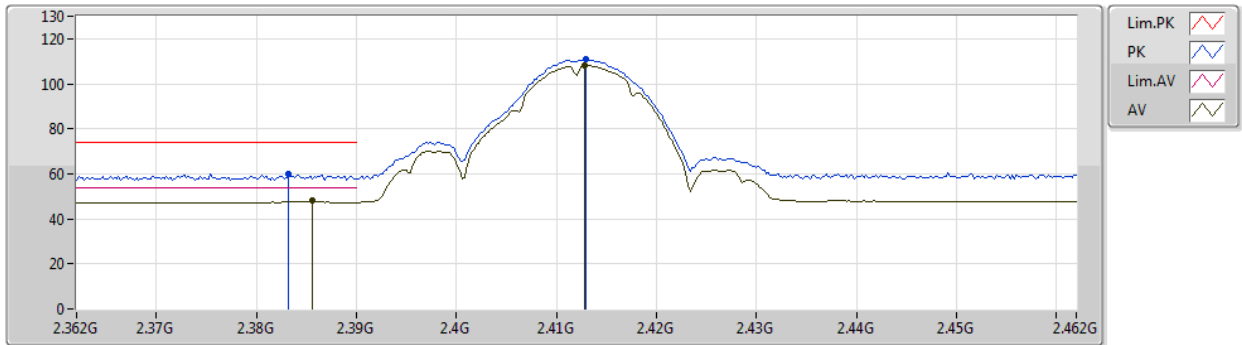


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 48.39             | 54.00             | -5.61          | 31.54          | 3           | Vertical  | 191            | 1.01          | -       | 16.85         | 27.54      | 4.00       | -          |
| AV   | 2.4112G      | 111.45            | Inf               | -Inf           | 31.50          | 3           | Vertical  | 191            | 1.01          | -       | 79.95         | 27.48      | 4.02       | -          |
| PK   | 2.3864G      | 60.22             | 74.00             | -13.78         | 31.54          | 3           | Vertical  | 191            | 1.01          | -       | 28.68         | 27.55      | 3.99       | -          |
| PK   | 2.4112G      | 113.89            | Inf               | -Inf           | 31.50          | 3           | Vertical  | 191            | 1.01          | -       | 82.39         | 27.48      | 4.02       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

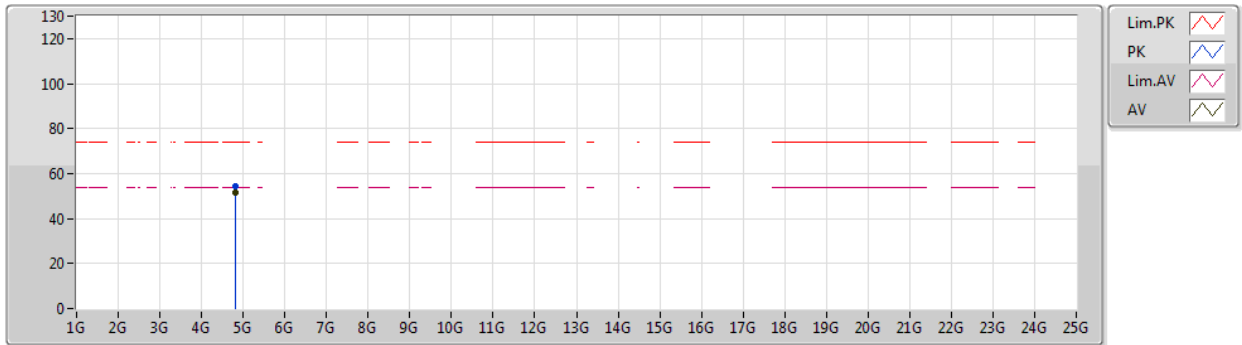


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3856G      | 48.09             | 54.00             | -5.91          | 31.55          | 3           | Horizontal | 176            | 1.45          | -       | 16.54         | 27.56      | 3.99       | -          |
| AV   | 2.4128G      | 108.34            | Inf               | -Inf           | 31.49          | 3           | Horizontal | 176            | 1.45          | -       | 76.85         | 27.47      | 4.02       | -          |
| PK   | 2.3832G      | 59.90             | 74.00             | -14.10         | 31.56          | 3           | Horizontal | 176            | 1.45          | -       | 28.34         | 27.57      | 3.99       | -          |
| PK   | 2.413G       | 110.74            | Inf               | -Inf           | 31.49          | 3           | Horizontal | 176            | 1.45          | -       | 79.25         | 27.47      | 4.02       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

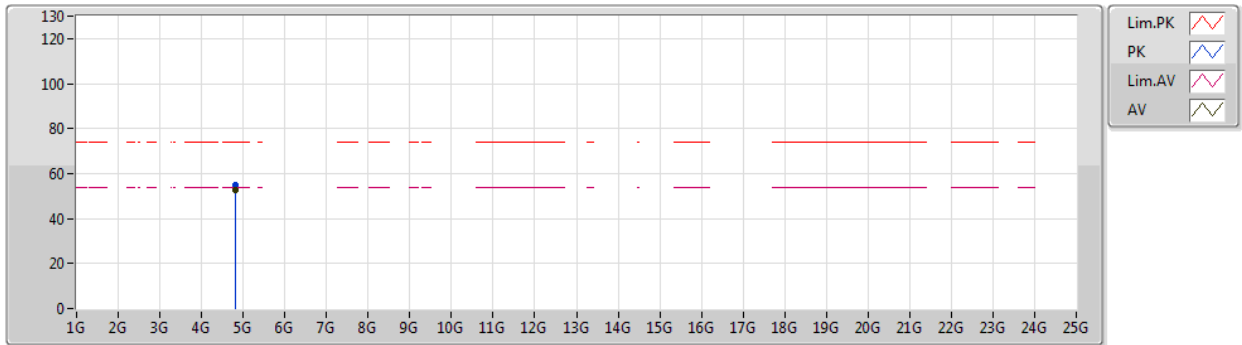


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.824G       | 51.73             | 54.00             | -2.27          | 7.51           | 3           | Vertical  | 199            | 2.09          | -       | 44.22         | 31.12      | 5.79       | 29.40      |
| PK   | 4.824G       | 54.35             | 74.00             | -19.65         | 7.51           | 3           | Vertical  | 199            | 2.09          | -       | 46.84         | 31.12      | 5.79       | 29.40      |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

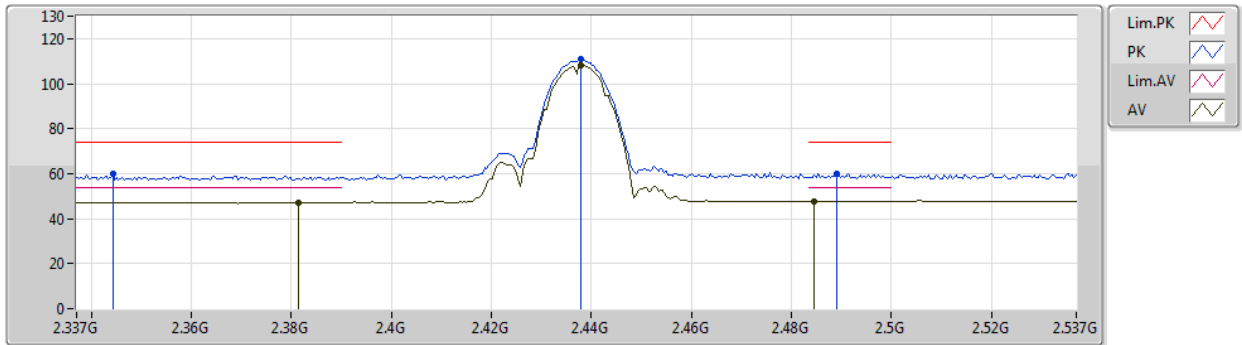


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.824G       | 52.83             | 54.00             | -1.17          | 7.51           | 3           | Horizontal | 214            | 1.04          | -       | 45.32         | 31.12      | 5.79       | 29.40      |
| PK   | 4.824G       | 55.03             | 74.00             | -18.97         | 7.51           | 3           | Horizontal | 214            | 1.04          | -       | 47.52         | 31.12      | 5.79       | 29.40      |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2437MHz\_TX

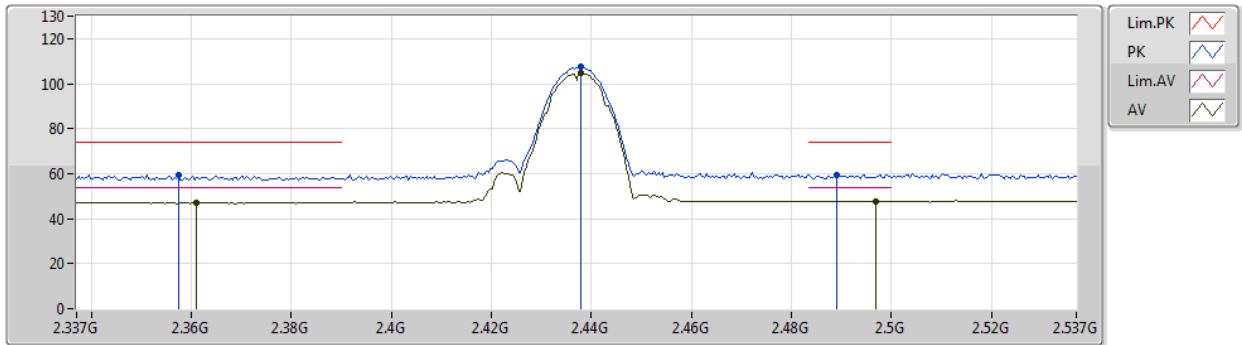


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3814G      | 47.28             | 54.00             | -6.72          | 31.56          | 3           | Vertical  | 156            | 1.44          | -       | 15.72         | 27.57      | 3.99       | -          |
| AV   | 2.4378G      | 108.27            | Inf               | -Inf           | 31.46          | 3           | Vertical  | 156            | 1.44          | -       | 76.81         | 27.42      | 4.04       | -          |
| AV   | 2.4846G      | 47.90             | 54.00             | -6.10          | 31.42          | 3           | Vertical  | 156            | 1.44          | -       | 16.48         | 27.33      | 4.09       | -          |
| PK   | 2.3442G      | 59.92             | 74.00             | -14.08         | 31.67          | 3           | Vertical  | 156            | 1.44          | -       | 28.25         | 27.72      | 3.95       | -          |
| PK   | 2.4378G      | 110.70            | Inf               | -Inf           | 31.46          | 3           | Vertical  | 156            | 1.44          | -       | 79.24         | 27.42      | 4.04       | -          |
| PK   | 2.489G       | 59.82             | 74.00             | -14.18         | 31.41          | 3           | Vertical  | 156            | 1.44          | -       | 28.41         | 27.32      | 4.09       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2437MHz\_TX

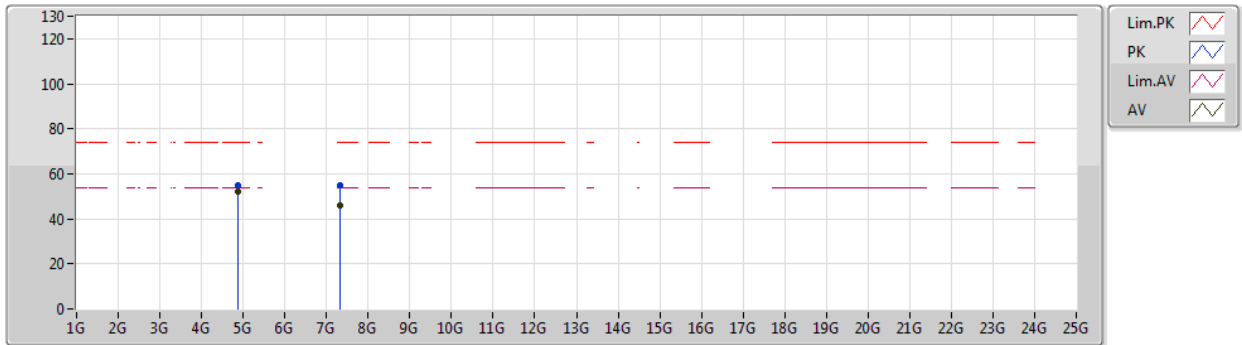


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.361G       | 47.27             | 54.00             | -6.73          | 31.63          | 3           | Horizontal | 205            | 1.84          | -       | 15.64         | 27.66      | 3.97       | -          |
| AV   | 2.4378G      | 105.01            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 205            | 1.84          | -       | 73.55         | 27.42      | 4.04       | -          |
| AV   | 2.497G       | 47.90             | 54.00             | -6.10          | 31.41          | 3           | Horizontal | 205            | 1.84          | -       | 16.49         | 27.31      | 4.10       | -          |
| PK   | 2.3574G      | 59.30             | 74.00             | -14.70         | 31.64          | 3           | Horizontal | 205            | 1.84          | -       | 27.66         | 27.67      | 3.97       | -          |
| PK   | 2.4378G      | 107.46            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 205            | 1.84          | -       | 76.00         | 27.42      | 4.04       | -          |
| PK   | 2.489G       | 59.32             | 74.00             | -14.68         | 31.41          | 3           | Horizontal | 205            | 1.84          | -       | 27.91         | 27.32      | 4.09       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2437MHz\_TX

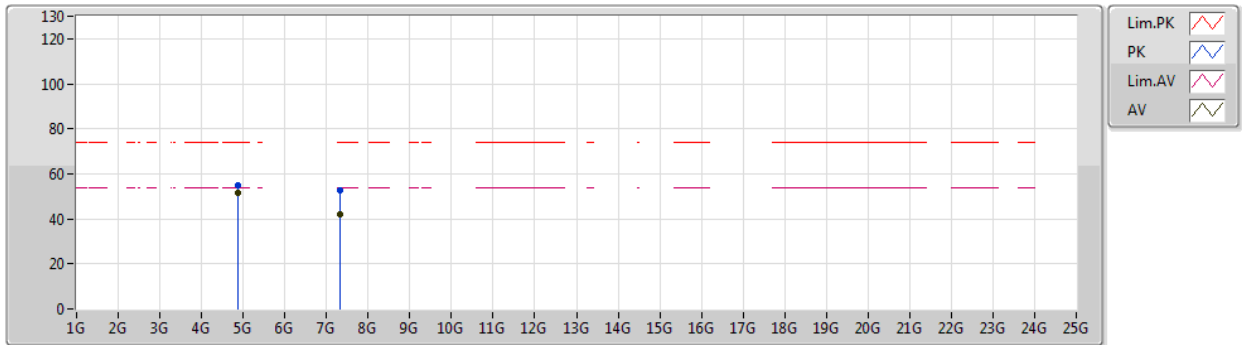


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87394G     | 52.12             | 54.00             | -1.88          | 7.62           | 3           | Vertical  | 170            | 2.09          | -       | 44.50         | 31.17      | 5.83       | 29.38      |
| AV   | 7.31022G     | 46.05             | 54.00             | -7.95          | 13.41          | 3           | Vertical  | 199            | 3.00          | -       | 32.64         | 36.29      | 7.48       | 30.36      |
| PK   | 4.874G       | 54.96             | 74.00             | -19.04         | 7.62           | 3           | Vertical  | 170            | 2.09          | -       | 47.34         | 31.17      | 5.83       | 29.38      |
| PK   | 7.31112G     | 54.82             | 74.00             | -19.18         | 13.41          | 3           | Vertical  | 199            | 3.00          | -       | 41.41         | 36.29      | 7.48       | 30.36      |

# 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

## 2437MHz\_TX

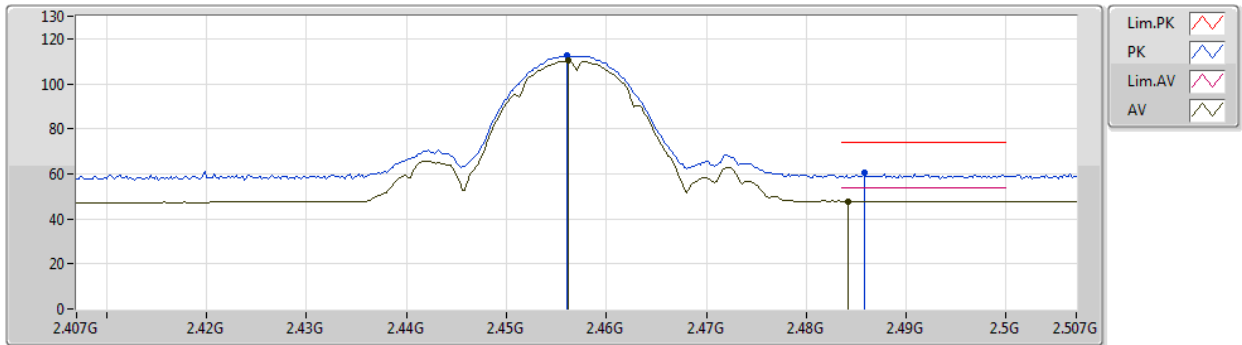


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.874G       | 51.71             | 54.00             | -2.29          | 7.62           | 3           | Horizontal | 202            | 1.50          | -       | 44.09         | 31.17      | 5.83       | 29.38      |
| AV   | 7.31178G     | 42.22             | 54.00             | -11.78         | 13.41          | 3           | Horizontal | 135            | 1.70          | -       | 28.81         | 36.29      | 7.48       | 30.36      |
| PK   | 4.87394G     | 54.80             | 74.00             | -19.20         | 7.62           | 3           | Horizontal | 202            | 1.50          | -       | 47.18         | 31.17      | 5.83       | 29.38      |
| PK   | 7.31214G     | 52.95             | 74.00             | -21.05         | 13.41          | 3           | Horizontal | 135            | 1.70          | -       | 39.54         | 36.29      | 7.48       | 30.36      |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2457MHz\_TX

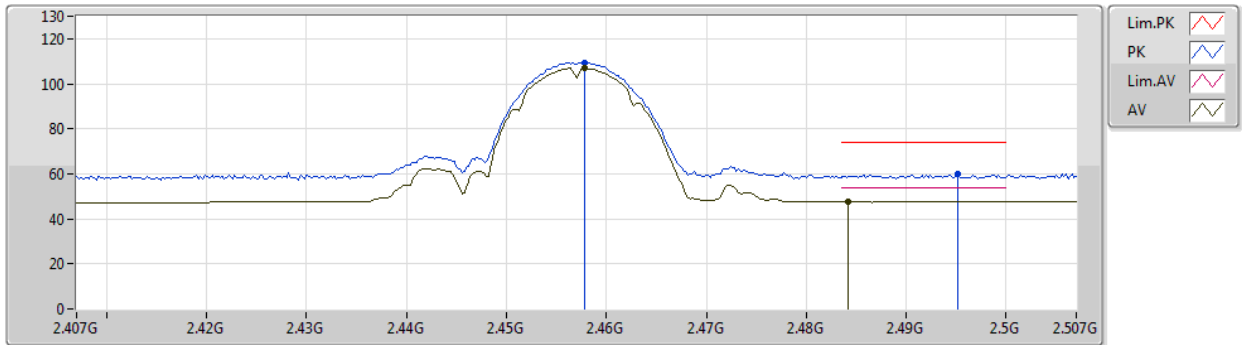


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4562G      | 110.33            | Inf               | -Inf           | 31.45          | 3           | Vertical  | 165            | 1.39          | -       | 78.88         | 27.39      | 4.06       | -          |
| AV   | 2.4842G      | 47.90             | 54.00             | -6.10          | 31.42          | 3           | Vertical  | 165            | 1.39          | -       | 16.48         | 27.33      | 4.09       | -          |
| PK   | 2.456G       | 112.72            | Inf               | -Inf           | 31.45          | 3           | Vertical  | 165            | 1.39          | -       | 81.27         | 27.39      | 4.06       | -          |
| PK   | 2.4858G      | 60.25             | 74.00             | -13.75         | 31.42          | 3           | Vertical  | 165            | 1.39          | -       | 28.83         | 27.33      | 4.09       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2457MHz\_TX

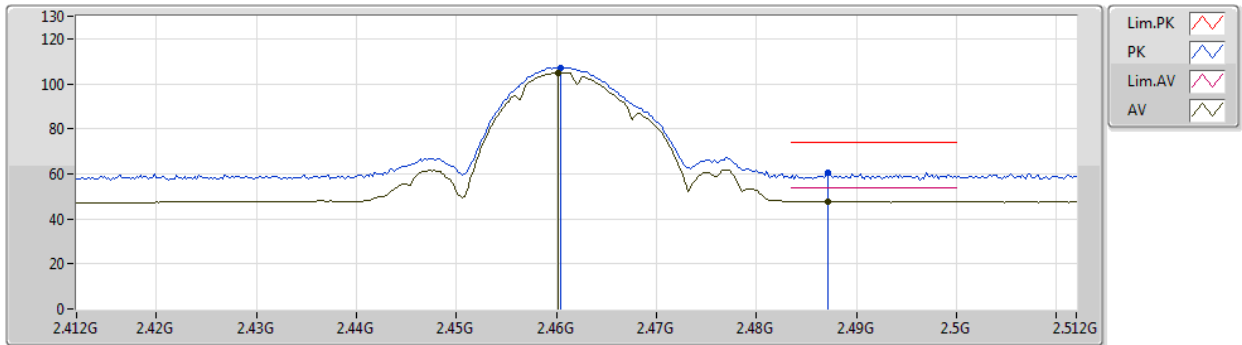


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4578G      | 107.11            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 207            | 2.18          | -       | 75.67         | 27.38      | 4.06       | -          |
| AV   | 2.4842G      | 47.61             | 54.00             | -6.39          | 31.42          | 3           | Horizontal | 207            | 2.18          | -       | 16.19         | 27.33      | 4.09       | -          |
| PK   | 2.4578G      | 109.51            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 207            | 2.18          | -       | 78.07         | 27.38      | 4.06       | -          |
| PK   | 2.4952G      | 59.83             | 74.00             | -14.17         | 31.41          | 3           | Horizontal | 207            | 2.18          | -       | 28.42         | 27.31      | 4.10       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2462MHz\_TX

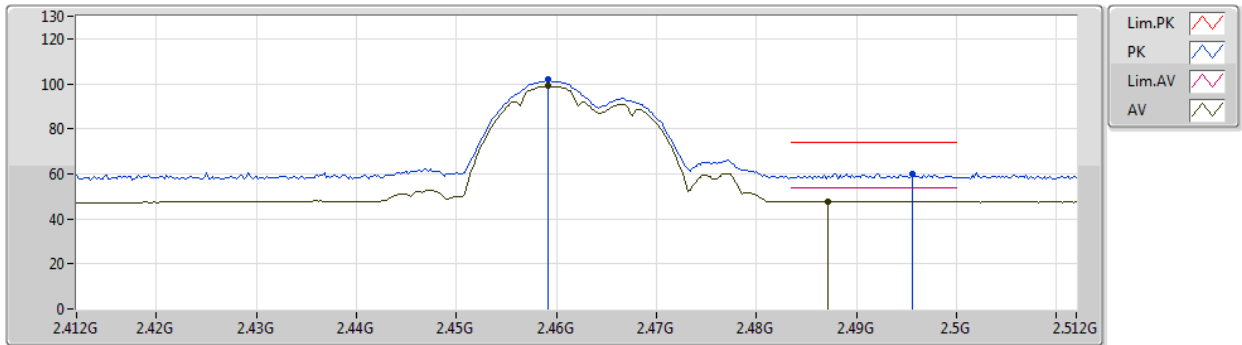


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4602G      | 104.97            | Inf               | -Inf           | 31.44          | 3           | Vertical  | 199            | 1.49          | -       | 73.53         | 27.38      | 4.06       | -          |
| AV   | 2.4872G      | 47.90             | 54.00             | -6.10          | 31.42          | 3           | Vertical  | 199            | 1.49          | -       | 16.48         | 27.33      | 4.09       | -          |
| PK   | 2.4604G      | 107.30            | Inf               | -Inf           | 31.44          | 3           | Vertical  | 199            | 1.49          | -       | 75.86         | 27.38      | 4.06       | -          |
| PK   | 2.4872G      | 60.51             | 74.00             | -13.49         | 31.42          | 3           | Vertical  | 199            | 1.49          | -       | 29.09         | 27.33      | 4.09       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2462MHz\_TX

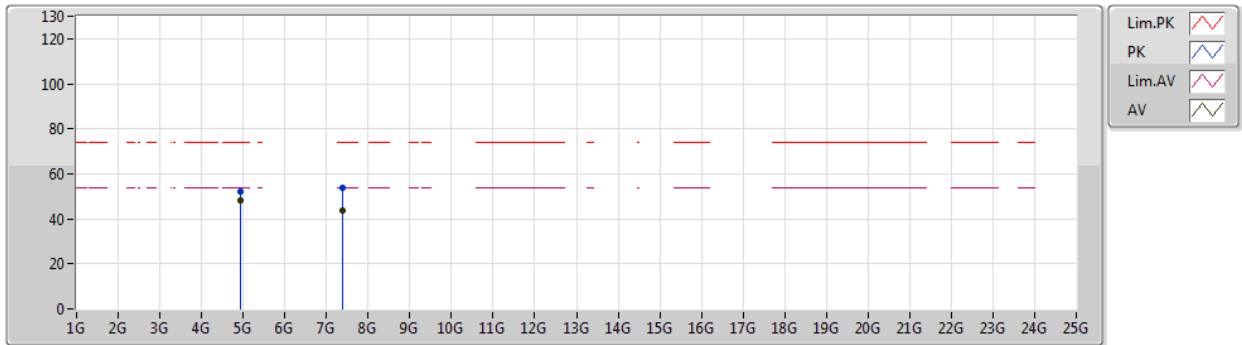


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4592G      | 99.01             | Inf               | -Inf           | 31.44          | 3           | Horizontal | 211            | 2.90          | -       | 67.57         | 27.38      | 4.06       | -          |
| AV   | 2.4872G      | 47.90             | 54.00             | -6.10          | 31.42          | 3           | Horizontal | 211            | 2.90          | -       | 16.48         | 27.33      | 4.09       | -          |
| PK   | 2.4592G      | 101.87            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 211            | 2.90          | -       | 70.43         | 27.38      | 4.06       | -          |
| PK   | 2.4956G      | 60.18             | 74.00             | -13.82         | 31.41          | 3           | Horizontal | 211            | 2.90          | -       | 28.77         | 27.31      | 4.10       | -          |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2462MHz\_TX

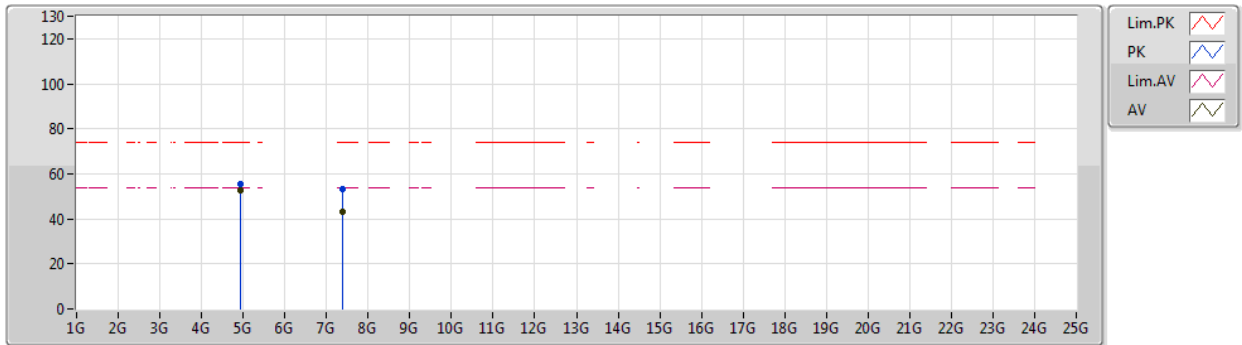


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.924G       | 48.10             | 54.00             | -5.90          | 7.79           | 3           | Vertical  | 124            | 1.03          | -       | 40.31         | 31.27      | 5.87       | 29.35      |
| AV   | 7.38696G     | 43.76             | 54.00             | -10.24         | 13.13          | 3           | Vertical  | 194            | 1.34          | -       | 30.63         | 36.21      | 7.34       | 30.42      |
| PK   | 4.924G       | 52.07             | 74.00             | -21.93         | 7.79           | 3           | Vertical  | 124            | 1.03          | -       | 44.28         | 31.27      | 5.87       | 29.35      |
| PK   | 7.38708G     | 53.58             | 74.00             | -20.42         | 13.13          | 3           | Vertical  | 194            | 1.34          | -       | 40.45         | 36.21      | 7.34       | 30.42      |

## 802.11b\_Nss1,(1Mbps)\_2TX

31/10/2019

### 2462MHz\_TX

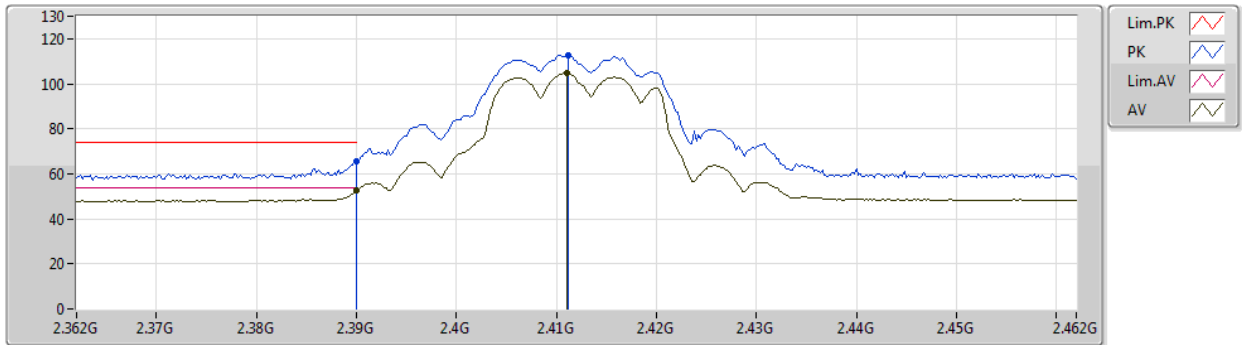


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.924G       | 52.67             | 54.00             | -1.33          | 7.79           | 3           | Horizontal | 204            | 1.25          | -       | 44.88         | 31.27      | 5.87       | 29.35      |
| AV   | 7.3869G      | 42.95             | 54.00             | -11.05         | 13.13          | 3           | Horizontal | 47             | 2.17          | -       | 29.82         | 36.21      | 7.34       | 30.42      |
| PK   | 4.92406G     | 55.64             | 74.00             | -18.36         | 7.79           | 3           | Horizontal | 204            | 1.25          | -       | 47.85         | 31.27      | 5.87       | 29.35      |
| PK   | 7.38534G     | 52.97             | 74.00             | -21.03         | 13.13          | 3           | Horizontal | 47             | 2.17          | -       | 39.84         | 36.21      | 7.34       | 30.42      |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

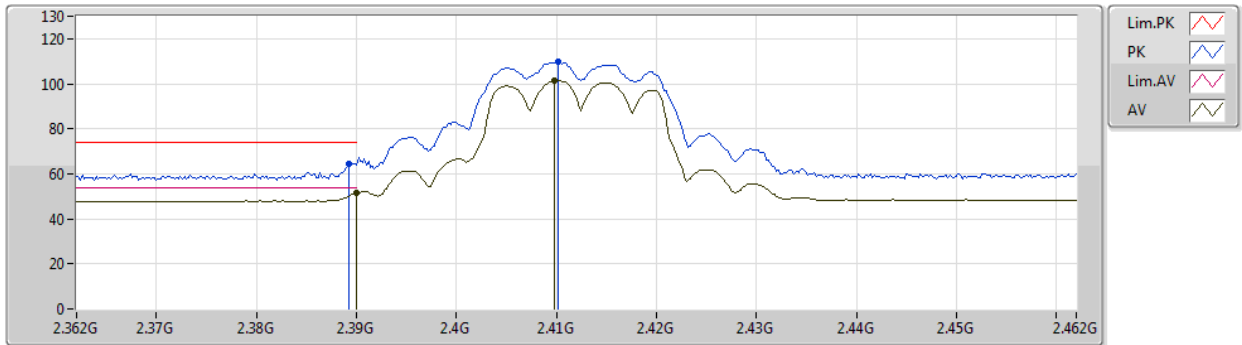


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 52.62             | 54.00             | -1.38          | 31.54          | 3           | Vertical  | 197            | 1.14          | -       | 21.08         | 27.54      | 4.00       | -          |
| AV   | 2.411G       | 104.66            | Inf               | -Inf           | 31.50          | 3           | Vertical  | 197            | 1.14          | -       | 73.16         | 27.48      | 4.02       | -          |
| PK   | 2.39G        | 65.39             | 74.00             | -8.61          | 31.54          | 3           | Vertical  | 197            | 1.14          | -       | 33.85         | 27.54      | 4.00       | -          |
| PK   | 2.4112G      | 112.83            | Inf               | -Inf           | 31.50          | 3           | Vertical  | 197            | 1.14          | -       | 81.33         | 27.48      | 4.02       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

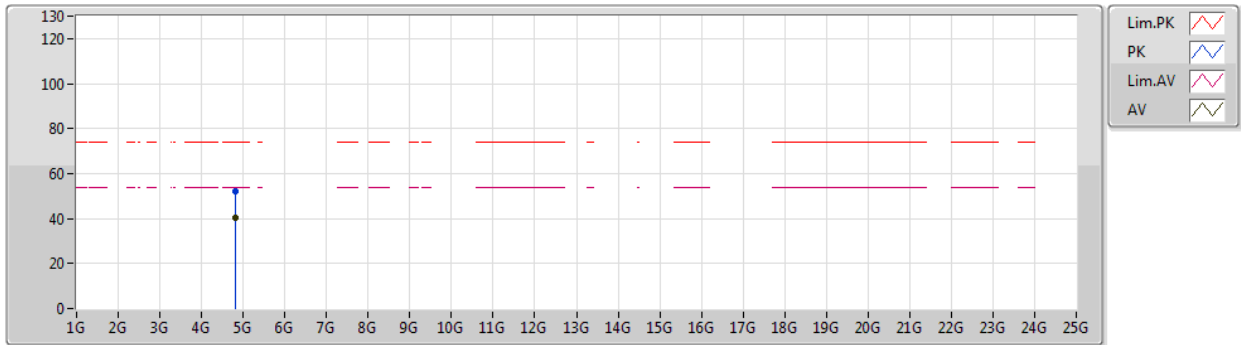


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.49             | 54.00             | -2.51          | 31.54          | 3           | Horizontal | 180            | 2.10          | -       | 19.95         | 27.54      | 4.00       | -          |
| AV   | 2.4098G      | 101.50            | Inf               | -Inf           | 31.50          | 3           | Horizontal | 180            | 2.10          | -       | 70.00         | 27.48      | 4.02       | -          |
| PK   | 2.3892G      | 64.47             | 74.00             | -9.53          | 31.54          | 3           | Horizontal | 180            | 2.10          | -       | 32.93         | 27.54      | 4.00       | -          |
| PK   | 2.4102G      | 109.67            | Inf               | -Inf           | 31.50          | 3           | Horizontal | 180            | 2.10          | -       | 78.17         | 27.48      | 4.02       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

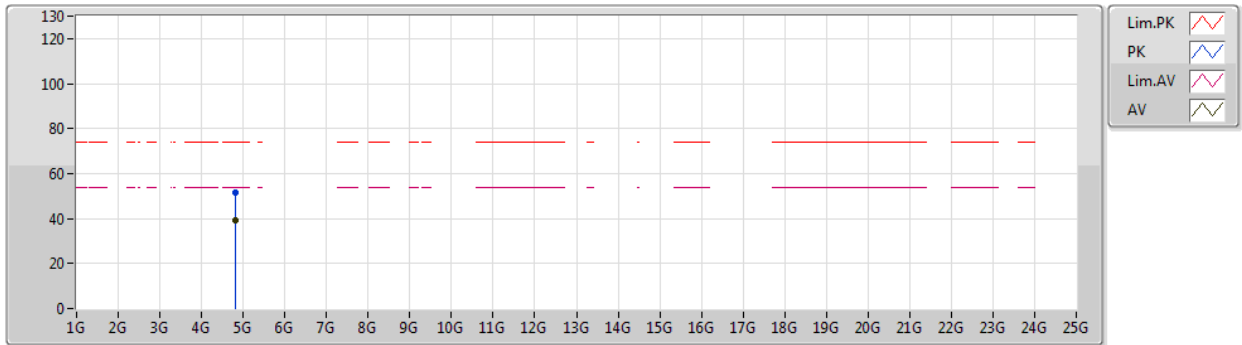


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.82262G     | 40.12             | 54.00             | -13.88         | 7.51           | 3           | Vertical  | 257            | 1.17          | -       | 32.61         | 31.12      | 5.79       | 29.40      |
| PK   | 4.82358G     | 52.24             | 74.00             | -21.76         | 7.51           | 3           | Vertical  | 257            | 1.17          | -       | 44.73         | 31.12      | 5.79       | 29.40      |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2412MHz\_TX

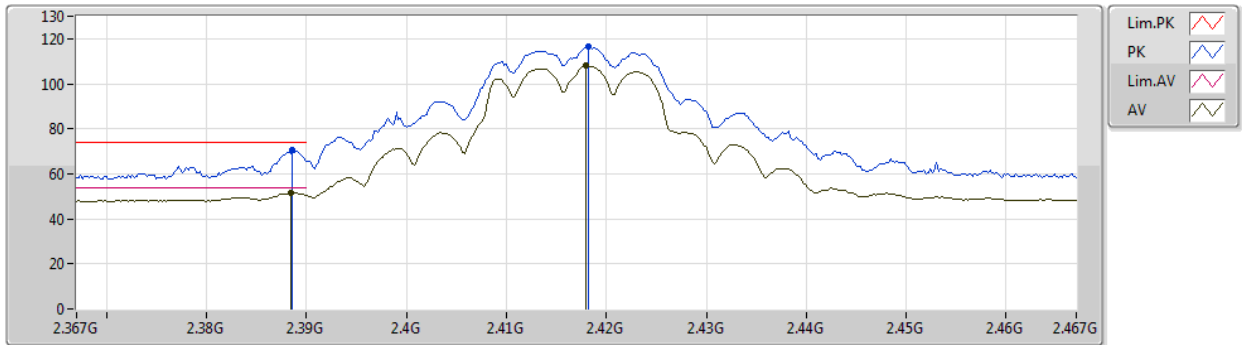


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.82286G     | 39.33             | 54.00             | -14.67         | 7.51           | 3           | Horizontal | 116            | 1.04          | -       | 31.82         | 31.12      | 5.79       | 29.40      |
| PK   | 4.82274G     | 51.56             | 74.00             | -22.44         | 7.51           | 3           | Horizontal | 116            | 1.04          | -       | 44.05         | 31.12      | 5.79       | 29.40      |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2417MHz\_TX

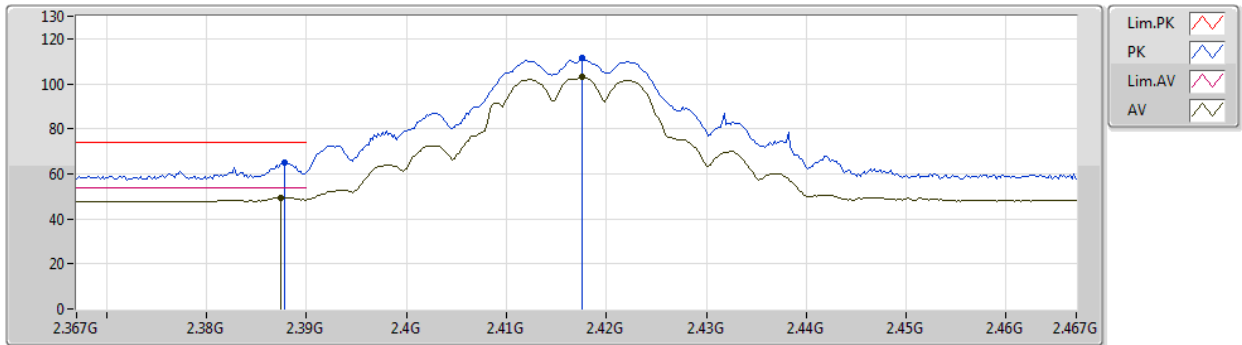


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3884G      | 51.65             | 54.00             | -2.35          | 31.55          | 3           | Vertical  | 195            | 1.00          | -       | 20.10         | 27.55      | 4.00       | -          |
| AV   | 2.418G       | 107.98            | Inf               | -Inf           | 31.48          | 3           | Vertical  | 195            | 1.00          | -       | 76.50         | 27.46      | 4.02       | -          |
| PK   | 2.3886G      | 70.35             | 74.00             | -3.65          | 31.55          | 3           | Vertical  | 195            | 1.00          | -       | 38.80         | 27.55      | 4.00       | -          |
| PK   | 2.4182G      | 116.39            | Inf               | -Inf           | 31.48          | 3           | Vertical  | 195            | 1.00          | -       | 84.91         | 27.46      | 4.02       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2417MHz\_TX

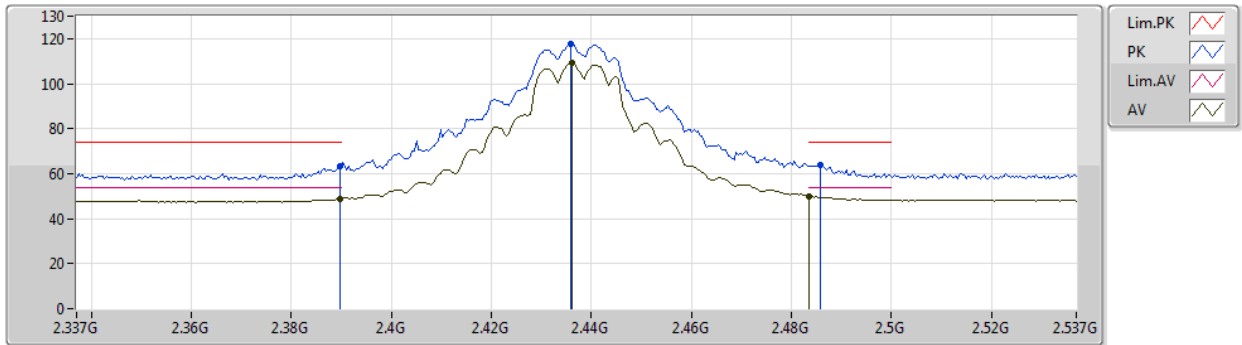


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3874G      | 49.52             | 54.00             | -4.48          | 31.54          | 3           | Horizontal | 179            | 1.46          | -       | 17.98         | 27.55      | 3.99       | -          |
| AV   | 2.4176G      | 103.09            | Inf               | -Inf           | 31.48          | 3           | Horizontal | 179            | 1.46          | -       | 71.61         | 27.46      | 4.02       | -          |
| PK   | 2.3878G      | 65.12             | 74.00             | -8.88          | 31.54          | 3           | Horizontal | 179            | 1.46          | -       | 33.58         | 27.55      | 3.99       | -          |
| PK   | 2.4176G      | 111.33            | Inf               | -Inf           | 31.48          | 3           | Horizontal | 179            | 1.46          | -       | 79.85         | 27.46      | 4.02       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2437MHz\_TX

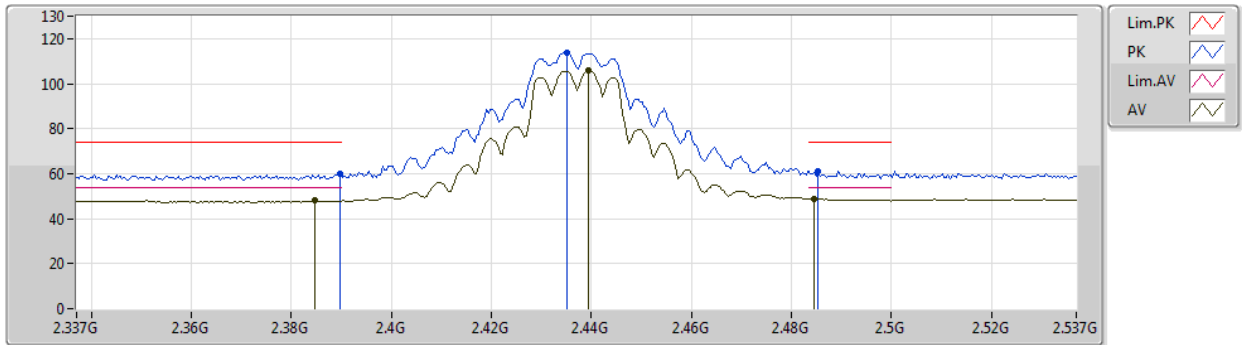


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 48.87             | 54.00             | -5.13          | 31.54          | 3           | Vertical  | 197            | 1.34          | -       | 17.33         | 27.54      | 4.00       | -          |
| AV   | 2.4362G      | 109.31            | Inf               | -Inf           | 31.47          | 3           | Vertical  | 197            | 1.34          | -       | 77.84         | 27.43      | 4.04       | -          |
| AV   | 2.4835G      | 49.88             | 54.00             | -4.12          | 31.41          | 3           | Vertical  | 197            | 1.34          | -       | 18.47         | 27.33      | 4.08       | -          |
| PK   | 2.3898G      | 63.40             | 74.00             | -10.60         | 31.54          | 3           | Vertical  | 197            | 1.34          | -       | 31.86         | 27.54      | 4.00       | -          |
| PK   | 2.4358G      | 117.49            | Inf               | -Inf           | 31.47          | 3           | Vertical  | 197            | 1.34          | -       | 86.02         | 27.43      | 4.04       | -          |
| PK   | 2.4858G      | 64.10             | 74.00             | -9.90          | 31.42          | 3           | Vertical  | 197            | 1.34          | -       | 32.68         | 27.33      | 4.09       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2437MHz\_TX

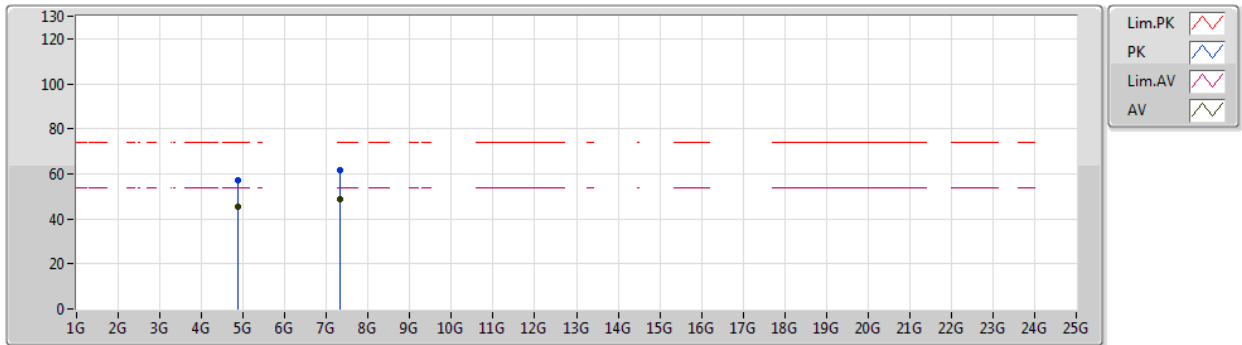


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3846G      | 48.08             | 54.00             | -5.92          | 31.55          | 3           | Horizontal | 176            | 1.38          | -       | 16.53         | 27.56      | 3.99       | -          |
| AV   | 2.4394G      | 105.67            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 176            | 1.38          | -       | 74.21         | 27.42      | 4.04       | -          |
| AV   | 2.4846G      | 48.95             | 54.00             | -5.05          | 31.42          | 3           | Horizontal | 176            | 1.38          | -       | 17.53         | 27.33      | 4.09       | -          |
| PK   | 2.3898G      | 59.88             | 74.00             | -14.12         | 31.54          | 3           | Horizontal | 176            | 1.38          | -       | 28.34         | 27.54      | 4.00       | -          |
| PK   | 2.435G       | 113.76            | Inf               | -Inf           | 31.47          | 3           | Horizontal | 176            | 1.38          | -       | 82.29         | 27.43      | 4.04       | -          |
| PK   | 2.4854G      | 61.32             | 74.00             | -12.68         | 31.42          | 3           | Horizontal | 176            | 1.38          | -       | 29.90         | 27.33      | 4.09       | -          |

# 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

## 2437MHz\_TX

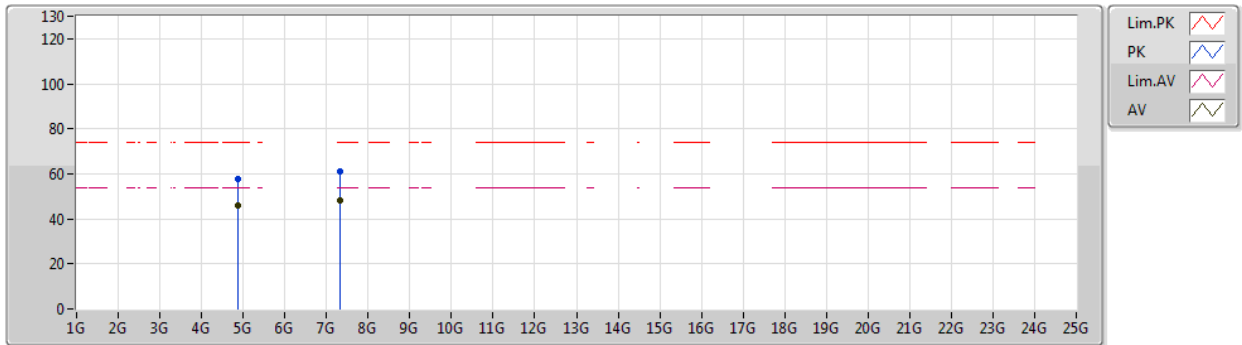


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87388G     | 45.12             | 54.00             | -8.88          | 7.62           | 3           | Vertical  | 124            | 1.12          | -       | 37.50         | 31.17      | 5.83       | 29.38      |
| AV   | 7.31292G     | 48.70             | 54.00             | -5.30          | 13.40          | 3           | Vertical  | 198            | 2.87          | -       | 35.30         | 36.29      | 7.47       | 30.36      |
| PK   | 4.87346G     | 57.35             | 74.00             | -16.65         | 7.62           | 3           | Vertical  | 124            | 1.12          | -       | 49.73         | 31.17      | 5.83       | 29.38      |
| PK   | 7.31256G     | 61.73             | 74.00             | -12.27         | 13.40          | 3           | Vertical  | 198            | 2.87          | -       | 48.33         | 36.29      | 7.47       | 30.36      |

# 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

## 2437MHz\_TX

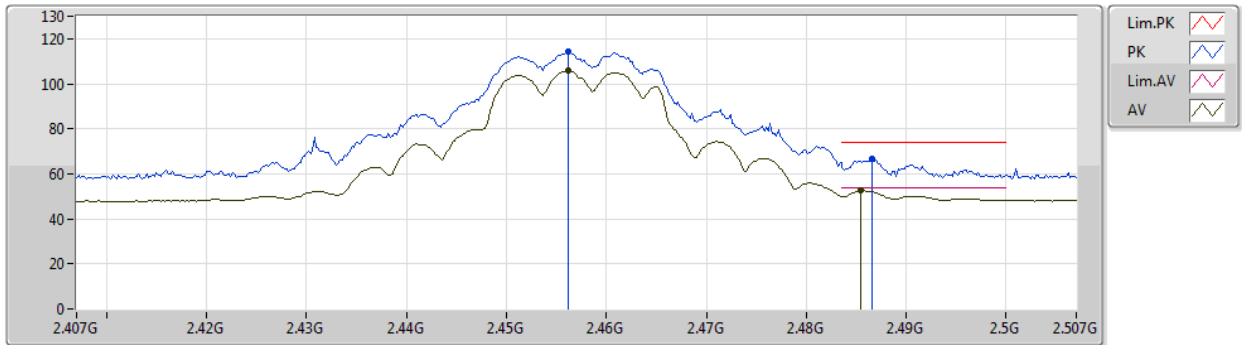


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.874G       | 45.84             | 54.00             | -8.16          | 7.62           | 3           | Horizontal | 215            | 1.08          | -       | 38.22         | 31.17      | 5.83       | 29.38      |
| AV   | 7.31292G     | 48.43             | 54.00             | -5.57          | 13.40          | 3           | Horizontal | 53             | 1.00          | -       | 35.03         | 36.29      | 7.47       | 30.36      |
| PK   | 4.87568G     | 57.95             | 74.00             | -16.05         | 7.63           | 3           | Horizontal | 215            | 1.08          | -       | 50.32         | 31.18      | 5.83       | 29.38      |
| PK   | 7.31268G     | 61.05             | 74.00             | -12.95         | 13.40          | 3           | Horizontal | 53             | 1.00          | -       | 47.65         | 36.29      | 7.47       | 30.36      |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2457MHz\_TX

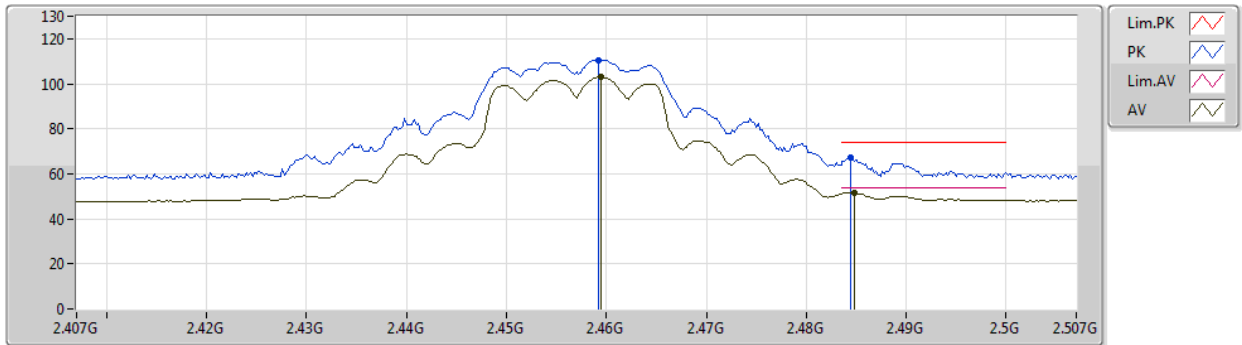


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4562G      | 105.87            | Inf               | -Inf           | 31.45          | 3           | Vertical  | 197            | 1.00          | -       | 74.42         | 27.39      | 4.06       | -          |
| AV   | 2.4854G      | 52.56             | 54.00             | -1.44          | 31.42          | 3           | Vertical  | 197            | 1.00          | -       | 21.14         | 27.33      | 4.09       | -          |
| PK   | 2.4562G      | 114.21            | Inf               | -Inf           | 31.45          | 3           | Vertical  | 197            | 1.00          | -       | 82.76         | 27.39      | 4.06       | -          |
| PK   | 2.4866G      | 66.73             | 74.00             | -7.27          | 31.42          | 3           | Vertical  | 197            | 1.00          | -       | 35.31         | 27.33      | 4.09       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2457MHz\_TX

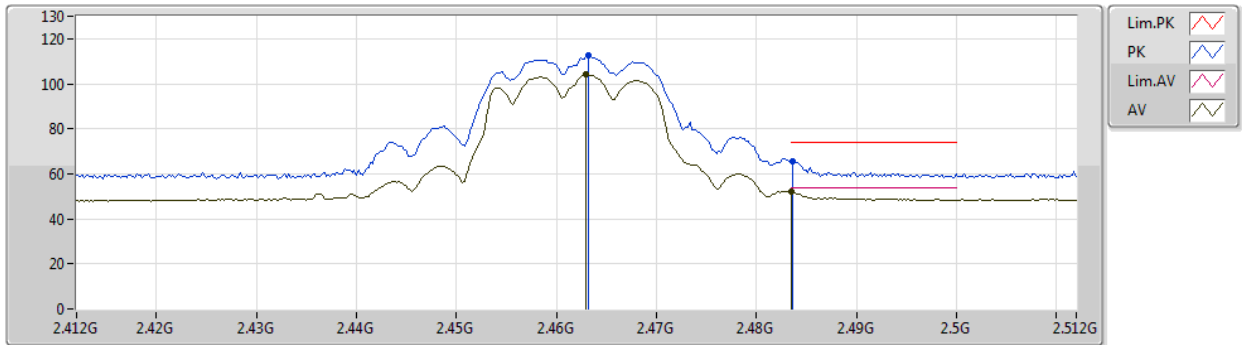


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4594G      | 102.97            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 176            | 1.17          | -       | 71.53         | 27.38      | 4.06       | -          |
| AV   | 2.4848G      | 51.70             | 54.00             | -2.30          | 31.42          | 3           | Horizontal | 176            | 1.17          | -       | 20.28         | 27.33      | 4.09       | -          |
| PK   | 2.4592G      | 110.59            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 176            | 1.17          | -       | 79.15         | 27.38      | 4.06       | -          |
| PK   | 2.4844G      | 67.16             | 74.00             | -6.84          | 31.42          | 3           | Horizontal | 176            | 1.17          | -       | 35.74         | 27.33      | 4.09       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2462MHz\_TX

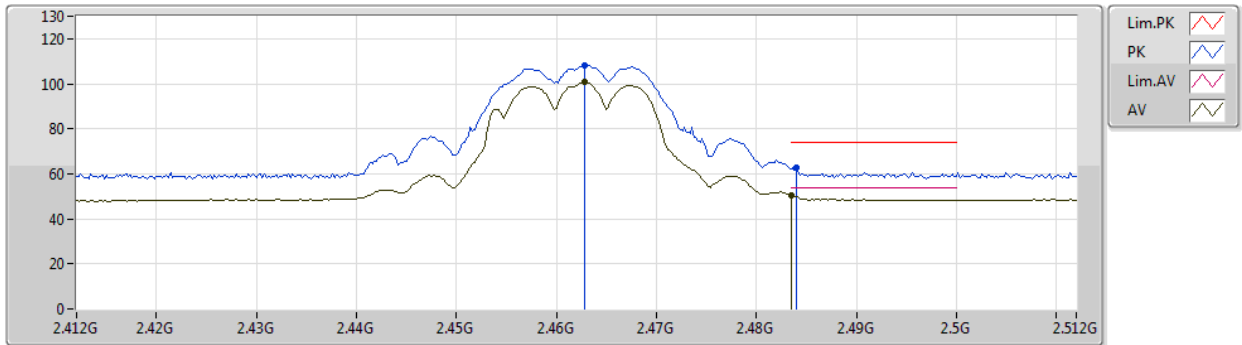


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.463G       | 103.97            | Inf               | -Inf           | 31.44          | 3           | Vertical  | 193            | 1.00          | -       | 72.53         | 27.37      | 4.07       | -          |
| AV   | 2.4835G      | 52.04             | 54.00             | -1.96          | 31.41          | 3           | Vertical  | 193            | 1.00          | -       | 20.63         | 27.33      | 4.08       | -          |
| PK   | 2.4632G      | 112.44            | Inf               | -Inf           | 31.44          | 3           | Vertical  | 193            | 1.00          | -       | 81.00         | 27.37      | 4.07       | -          |
| PK   | 2.4836G      | 65.44             | 74.00             | -8.56          | 31.41          | 3           | Vertical  | 193            | 1.00          | -       | 34.03         | 27.33      | 4.08       | -          |

## 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

### 2462MHz\_TX

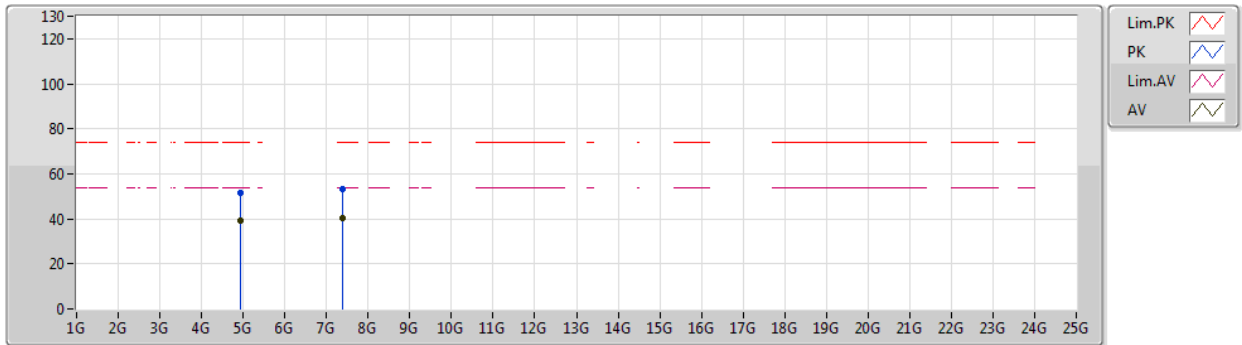


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 24628G       | 100.73            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 179            | 1.47          | -       | 69.29         | 27.37      | 4.07       | -          |
| AV   | 24835G       | 50.31             | 54.00             | -3.69          | 31.41          | 3           | Horizontal | 179            | 1.47          | -       | 18.90         | 27.33      | 4.08       | -          |
| PK   | 24628G       | 108.24            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 179            | 1.47          | -       | 76.80         | 27.37      | 4.07       | -          |
| PK   | 2484G        | 62.88             | 74.00             | -11.12         | 31.41          | 3           | Horizontal | 179            | 1.47          | -       | 31.47         | 27.33      | 4.08       | -          |

# 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

## 2462MHz\_TX

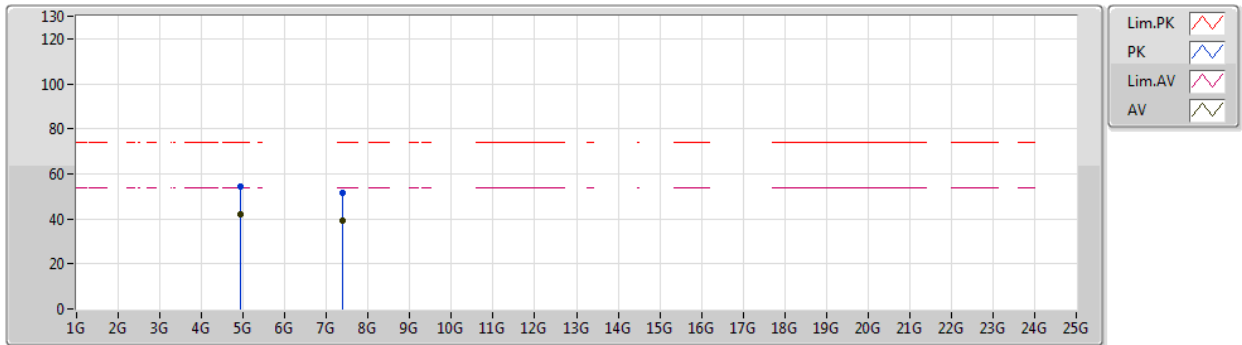


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92388G     | 39.07             | 54.00             | -14.93         | 7.78           | 3           | Vertical  | 124            | 1.36          | -       | 31.29         | 31.27      | 5.87       | 29.36      |
| AV   | 7.38732G     | 40.14             | 54.00             | -13.86         | 13.13          | 3           | Vertical  | 195            | 1.46          | -       | 27.01         | 36.21      | 7.34       | 30.42      |
| PK   | 4.92358G     | 51.41             | 74.00             | -22.59         | 7.77           | 3           | Vertical  | 124            | 1.36          | -       | 43.64         | 31.27      | 5.86       | 29.36      |
| PK   | 7.38342G     | 53.17             | 74.00             | -20.83         | 13.14          | 3           | Vertical  | 195            | 1.46          | -       | 40.03         | 36.22      | 7.34       | 30.42      |

# 802.11g\_Nss1,(6Mbps)\_2TX

31/10/2019

## 2462MHz\_TX

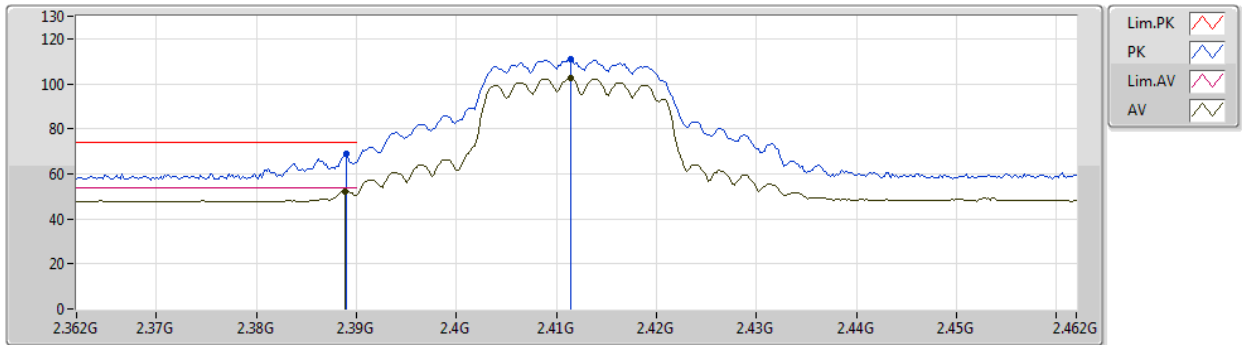


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92754G     | 41.75             | 54.00             | -12.25         | 7.80           | 3           | Horizontal | 204            | 1.26          | -       | 33.95         | 31.28      | 5.87       | 29.35      |
| AV   | 7.37694G     | 39.43             | 54.00             | -14.57         | 13.17          | 3           | Horizontal | 193            | 1.50          | -       | 26.26         | 36.22      | 7.36       | 30.41      |
| PK   | 4.92358G     | 54.32             | 74.00             | -19.68         | 7.77           | 3           | Horizontal | 204            | 1.26          | -       | 46.55         | 31.27      | 5.86       | 29.36      |
| PK   | 7.39026G     | 51.71             | 74.00             | -22.29         | 13.11          | 3           | Horizontal | 193            | 1.50          | -       | 38.60         | 36.21      | 7.33       | 30.43      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2412MHz\_TX

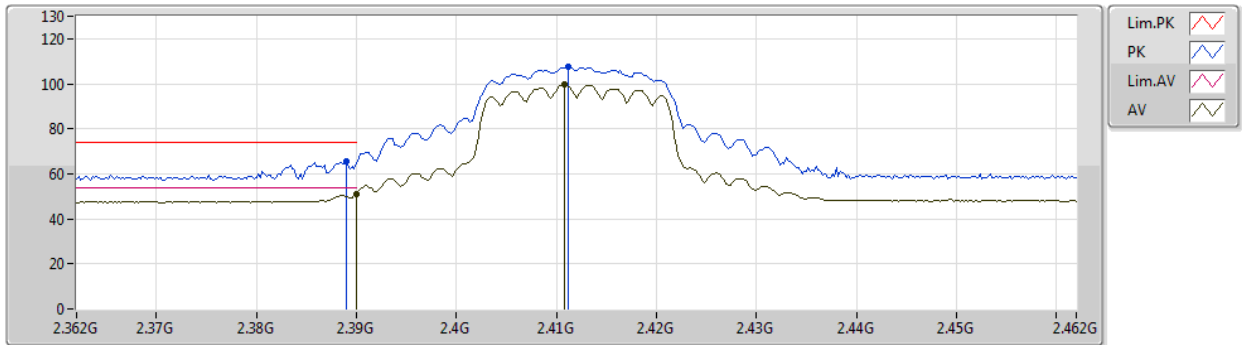


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3888G      | 52.30             | 54.00             | -1.70          | 31.54          | 3           | Vertical  | 195            | 1.13          | -       | 20.76         | 27.54      | 4.00       | -          |
| AV   | 2.4114G      | 102.68            | Inf               | -Inf           | 31.50          | 3           | Vertical  | 195            | 1.13          | -       | 71.18         | 27.48      | 4.02       | -          |
| PK   | 2.389G       | 69.03             | 74.00             | -4.97          | 31.54          | 3           | Vertical  | 195            | 1.13          | -       | 37.49         | 27.54      | 4.00       | -          |
| PK   | 2.4114G      | 110.89            | Inf               | -Inf           | 31.50          | 3           | Vertical  | 195            | 1.13          | -       | 79.39         | 27.48      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2412MHz\_TX

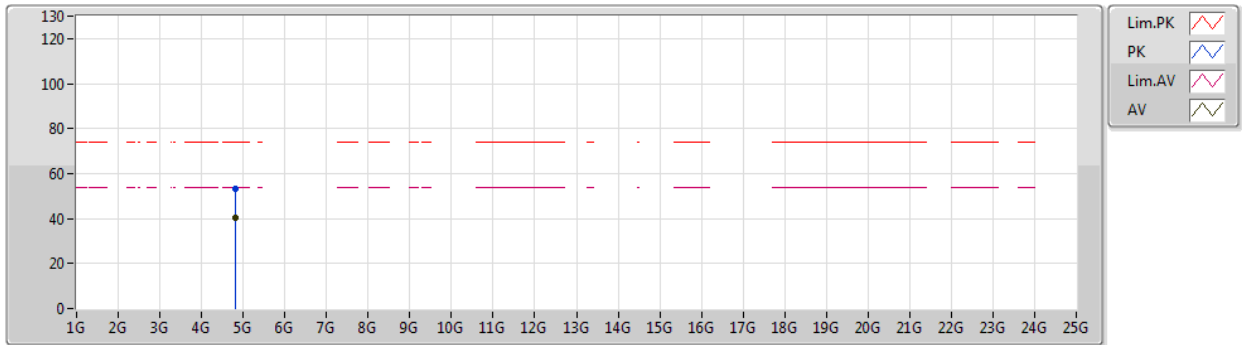


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 51.13             | 54.00             | -2.87          | 31.54          | 3           | Horizontal | 176            | 1.46          | -       | 19.59         | 27.54      | 4.00       | -          |
| AV   | 2.4108G      | 99.65             | Inf               | -Inf           | 31.50          | 3           | Horizontal | 176            | 1.46          | -       | 68.15         | 27.48      | 4.02       | -          |
| PK   | 2.389G       | 65.38             | 74.00             | -8.62          | 31.54          | 3           | Horizontal | 176            | 1.46          | -       | 33.84         | 27.54      | 4.00       | -          |
| PK   | 2.4112G      | 107.37            | Inf               | -Inf           | 31.50          | 3           | Horizontal | 176            | 1.46          | -       | 75.87         | 27.48      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2412MHz\_TX

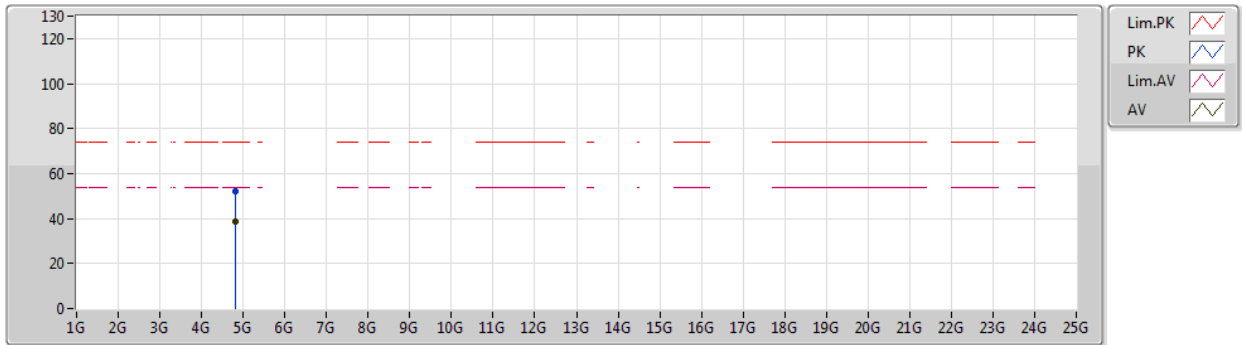


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.82376G     | 40.42             | 54.00             | -13.58         | 7.51           | 3           | Vertical  | 256            | 1.16          | -       | 32.91         | 31.12      | 5.79       | 29.40      |
| PK   | 4.82604G     | 53.23             | 74.00             | -20.77         | 7.52           | 3           | Vertical  | 256            | 1.16          | -       | 45.71         | 31.13      | 5.79       | 29.40      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2412MHz\_TX

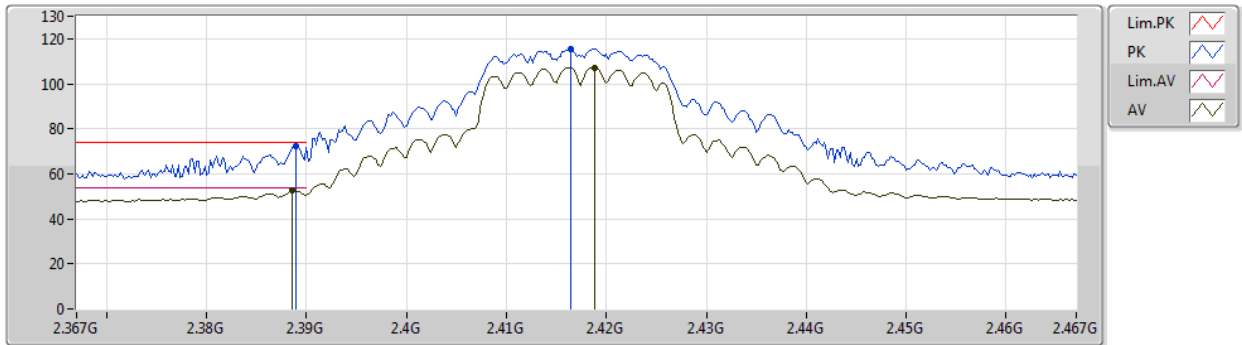


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8234G      | 38.69             | 54.00             | -15.31         | 7.51           | 3           | Horizontal | 132            | 1.00          | -       | 31.18         | 31.12      | 5.79       | 29.40      |
| PK   | 4.82604G     | 51.97             | 74.00             | -22.03         | 7.52           | 3           | Horizontal | 132            | 1.00          | -       | 44.45         | 31.13      | 5.79       | 29.40      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2417MHz\_TX

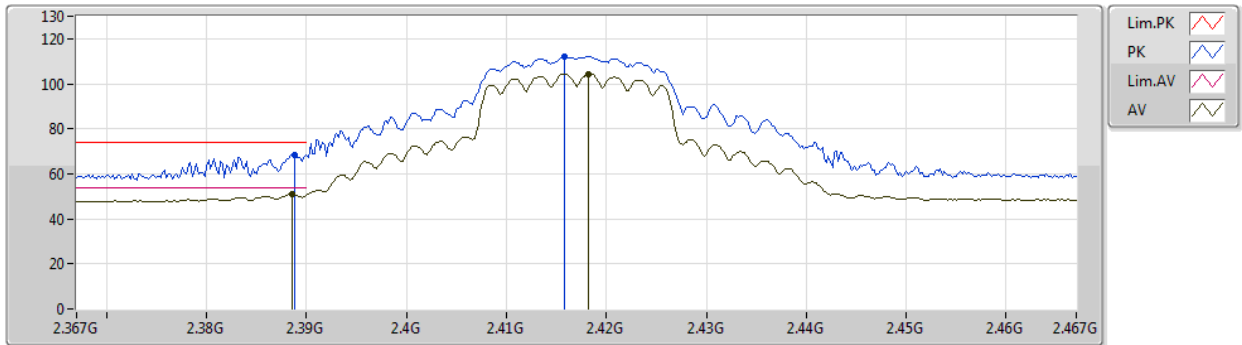


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3886G      | 52.46             | 54.00             | -1.54          | 31.55          | 3           | Vertical  | 193            | 1.01          | -       | 20.91         | 27.55      | 4.00       | -          |
| AV   | 2.4188G      | 107.28            | Inf               | -Inf           | 31.48          | 3           | Vertical  | 193            | 1.01          | -       | 75.80         | 27.46      | 4.02       | -          |
| PK   | 2.389G       | 72.28             | 74.00             | -1.72          | 31.54          | 3           | Vertical  | 193            | 1.01          | -       | 40.74         | 27.54      | 4.00       | -          |
| PK   | 2.4164G      | 115.64            | Inf               | -Inf           | 31.49          | 3           | Vertical  | 193            | 1.01          | -       | 84.15         | 27.47      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2417MHz\_TX

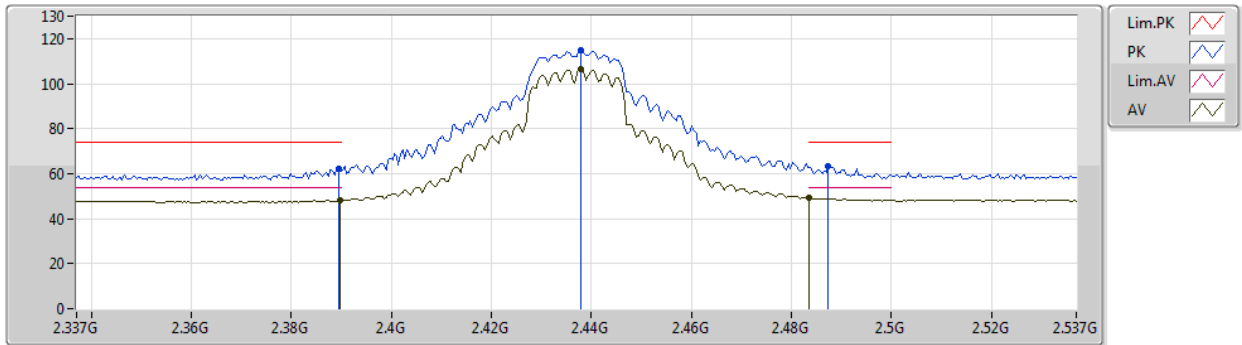


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3886G      | 51.12             | 54.00             | -2.88          | 31.55          | 3           | Horizontal | 177            | 1.47          | -       | 19.57         | 27.55      | 4.00       | -          |
| AV   | 2.4182G      | 104.47            | Inf               | -Inf           | 31.48          | 3           | Horizontal | 177            | 1.47          | -       | 72.99         | 27.46      | 4.02       | -          |
| PK   | 2.3888G      | 68.46             | 74.00             | -5.54          | 31.54          | 3           | Horizontal | 177            | 1.47          | -       | 36.92         | 27.54      | 4.00       | -          |
| PK   | 2.4158G      | 112.14            | Inf               | -Inf           | 31.49          | 3           | Horizontal | 177            | 1.47          | -       | 80.65         | 27.47      | 4.02       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2437MHz\_TX

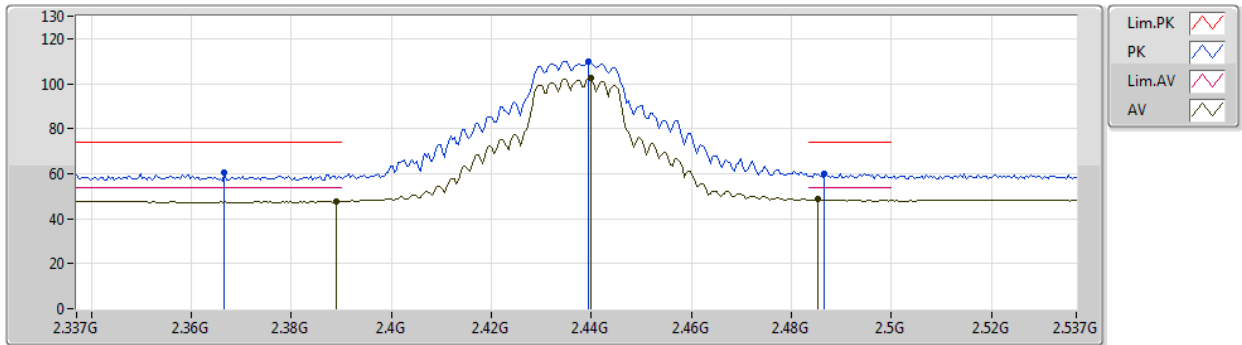


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 48.14             | 54.00             | -5.86          | 31.54          | 3           | Vertical  | 197            | 1.32          | -       | 16.60         | 27.54      | 4.00       | -          |
| AV   | 2.4378G      | 106.48            | Inf               | -Inf           | 31.46          | 3           | Vertical  | 197            | 1.32          | -       | 75.02         | 27.42      | 4.04       | -          |
| AV   | 2.4835G      | 49.18             | 54.00             | -4.82          | 31.41          | 3           | Vertical  | 197            | 1.32          | -       | 17.77         | 27.33      | 4.08       | -          |
| PK   | 2.3894G      | 61.92             | 74.00             | -12.08         | 31.54          | 3           | Vertical  | 197            | 1.32          | -       | 30.38         | 27.54      | 4.00       | -          |
| PK   | 2.4378G      | 114.89            | Inf               | -Inf           | 31.46          | 3           | Vertical  | 197            | 1.32          | -       | 83.43         | 27.42      | 4.04       | -          |
| PK   | 2.4874G      | 63.04             | 74.00             | -10.96         | 31.42          | 3           | Vertical  | 197            | 1.32          | -       | 31.62         | 27.33      | 4.09       | -          |

# 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

## 2437MHz\_TX

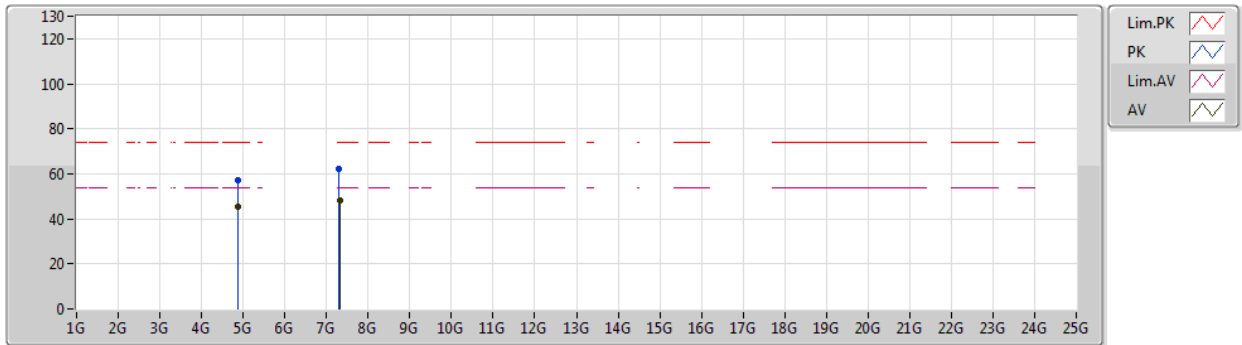


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.389G       | 47.87             | 54.00             | -6.13          | 31.54          | 3           | Horizontal | 177            | 1.39          | -       | 16.33         | 27.54      | 4.00       | -          |
| AV   | 2.4398G      | 102.38            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 177            | 1.39          | -       | 70.92         | 27.42      | 4.04       | -          |
| AV   | 2.4854G      | 48.70             | 54.00             | -5.30          | 31.42          | 3           | Horizontal | 177            | 1.39          | -       | 17.28         | 27.33      | 4.09       | -          |
| PK   | 2.3666G      | 60.32             | 74.00             | -13.68         | 31.60          | 3           | Horizontal | 177            | 1.39          | -       | 28.72         | 27.63      | 3.97       | -          |
| PK   | 2.4394G      | 110.02            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 177            | 1.39          | -       | 78.56         | 27.42      | 4.04       | -          |
| PK   | 2.4866G      | 60.04             | 74.00             | -13.96         | 31.42          | 3           | Horizontal | 177            | 1.39          | -       | 28.62         | 27.33      | 4.09       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2437MHz\_TX

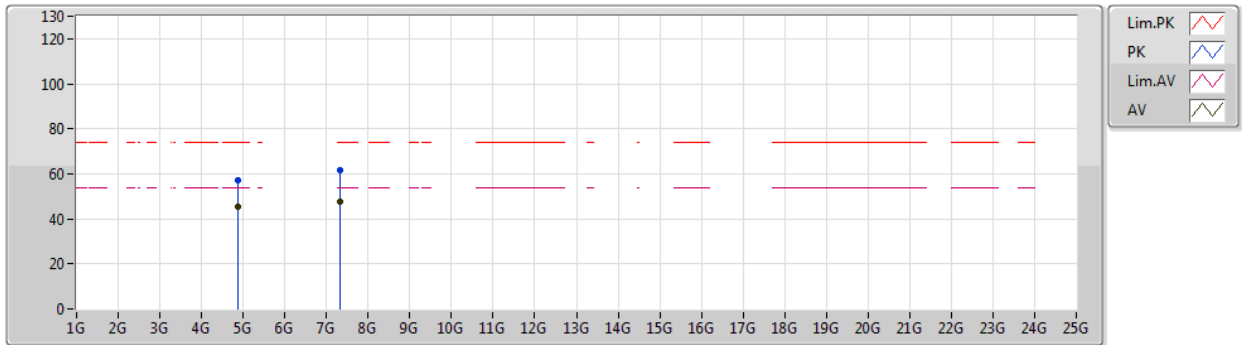


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87388G     | 45.19             | 54.00             | -8.81          | 7.62           | 3           | Vertical  | 125            | 1.09          | -       | 37.57         | 31.17      | 5.83       | 29.38      |
| AV   | 7.3116G      | 48.32             | 54.00             | -5.68          | 13.41          | 3           | Vertical  | 197            | 2.83          | -       | 34.91         | 36.29      | 7.48       | 30.36      |
| PK   | 4.87112G     | 56.90             | 74.00             | -17.10         | 7.62           | 3           | Vertical  | 125            | 1.09          | -       | 49.28         | 31.17      | 5.83       | 29.38      |
| PK   | 7.30716G     | 62.11             | 74.00             | -11.89         | 13.42          | 3           | Vertical  | 197            | 2.83          | -       | 48.69         | 36.29      | 7.48       | 30.35      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2437MHz\_TX

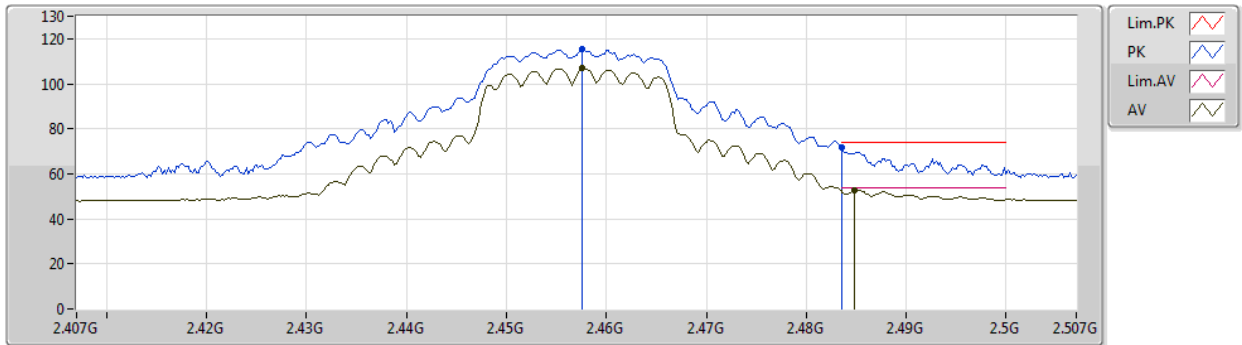


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87586G     | 45.21             | 54.00             | -8.79          | 7.63           | 3           | Horizontal | 203            | 1.17          | -       | 37.58         | 31.18      | 5.83       | 29.38      |
| AV   | 7.31208G     | 47.83             | 54.00             | -6.17          | 13.41          | 3           | Horizontal | 52             | 1.00          | -       | 34.42         | 36.29      | 7.48       | 30.36      |
| PK   | 4.87328G     | 56.99             | 74.00             | -17.01         | 7.62           | 3           | Horizontal | 203            | 1.17          | -       | 49.37         | 31.17      | 5.83       | 29.38      |
| PK   | 7.31676G     | 61.57             | 74.00             | -12.43         | 13.39          | 3           | Horizontal | 52             | 1.00          | -       | 48.18         | 36.28      | 7.47       | 30.36      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2457MHz\_TX

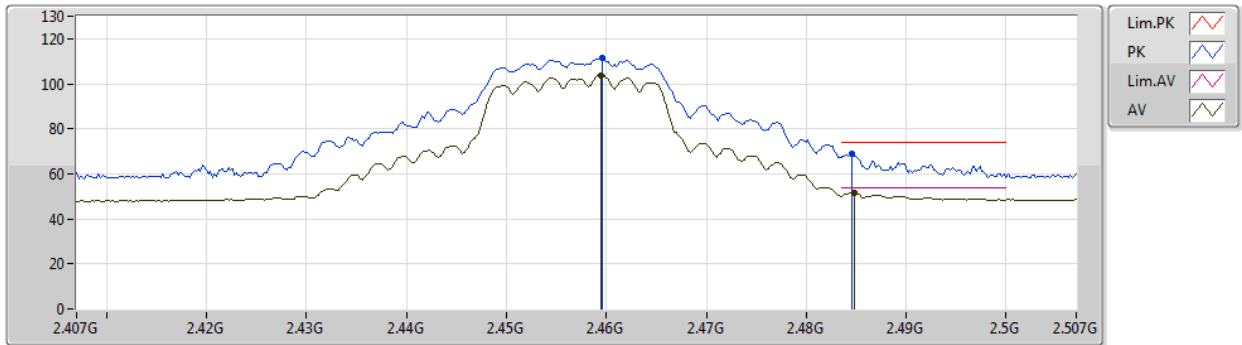


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4576G      | 106.93            | Inf               | -Inf           | 31.44          | 3           | Vertical  | 196            | 1.00          | -       | 75.49         | 27.38      | 4.06       | -          |
| AV   | 2.4848G      | 52.88             | 54.00             | -1.12          | 31.42          | 3           | Vertical  | 196            | 1.00          | -       | 21.46         | 27.33      | 4.09       | -          |
| PK   | 2.4576G      | 115.51            | Inf               | -Inf           | 31.44          | 3           | Vertical  | 196            | 1.00          | -       | 84.07         | 27.38      | 4.06       | -          |
| PK   | 2.4835G      | 71.77             | 74.00             | -2.23          | 31.41          | 3           | Vertical  | 196            | 1.00          | -       | 40.36         | 27.33      | 4.08       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2457MHz\_TX

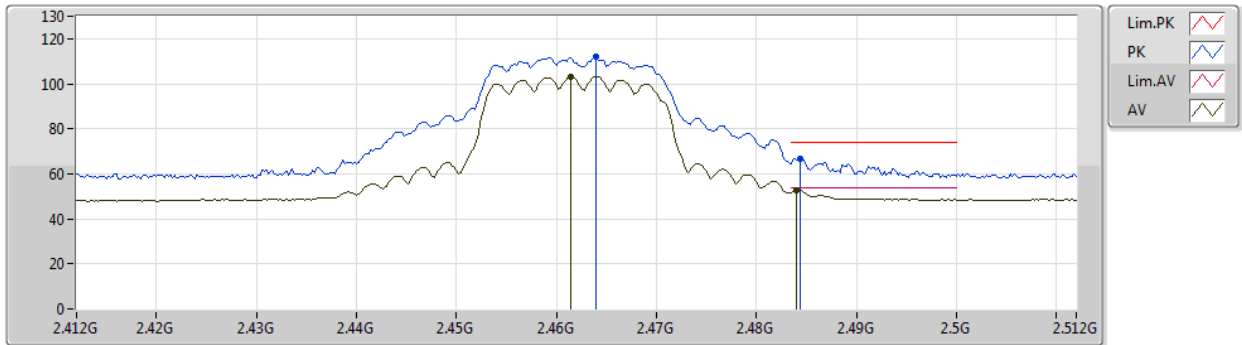


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.4594G      | 103.67            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 176            | 1.16          | -       | 72.23         | 27.38      | 4.06       | -          |
| AV   | 2.4848G      | 51.51             | 54.00             | -2.49          | 31.42          | 3           | Horizontal | 176            | 1.16          | -       | 20.09         | 27.33      | 4.09       | -          |
| PK   | 2.4596G      | 111.36            | Inf               | -Inf           | 31.44          | 3           | Horizontal | 176            | 1.16          | -       | 79.92         | 27.38      | 4.06       | -          |
| PK   | 2.4846G      | 68.71             | 74.00             | -5.29          | 31.42          | 3           | Horizontal | 176            | 1.16          | -       | 37.29         | 27.33      | 4.09       | -          |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

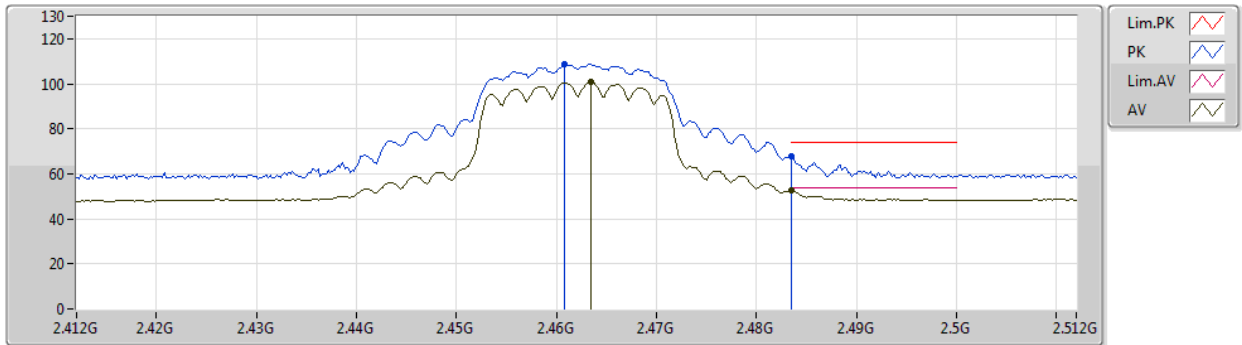
### 2462MHz\_TX



# 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

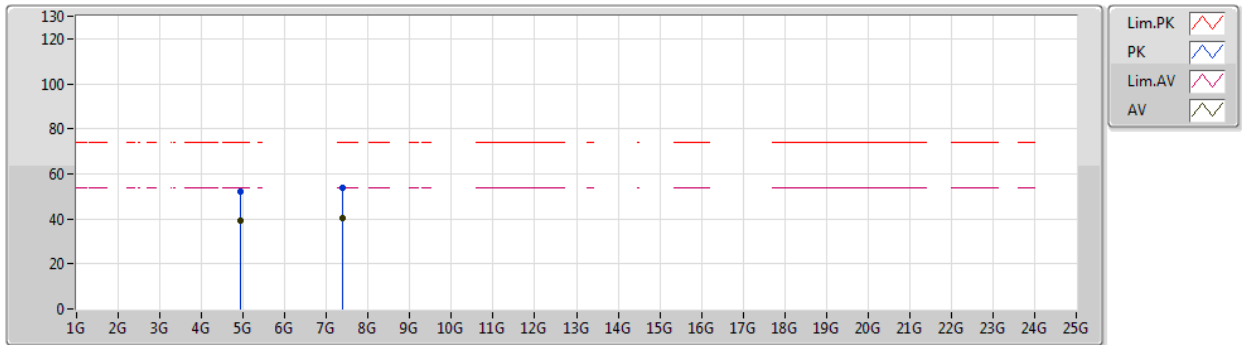
## 2462MHz\_TX



## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2462MHz\_TX

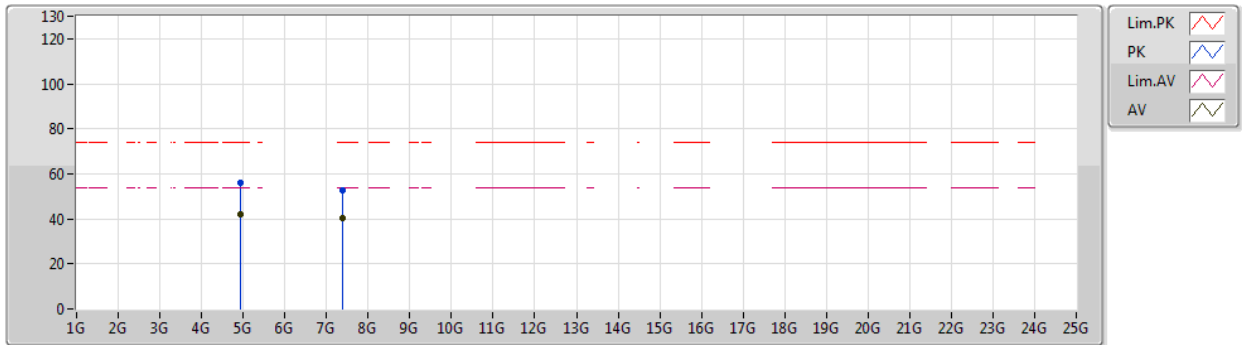


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92418G     | 39.23             | 54.00             | -14.77         | 7.79           | 3           | Vertical  | 124            | 1.37          | -       | 31.44         | 31.27      | 5.87       | 29.35      |
| AV   | 7.3845G      | 40.55             | 54.00             | -13.45         | 13.14          | 3           | Vertical  | 193            | 1.50          | -       | 27.41         | 36.22      | 7.34       | 30.42      |
| PK   | 4.92508G     | 51.89             | 74.00             | -22.11         | 7.80           | 3           | Vertical  | 124            | 1.37          | -       | 44.09         | 31.28      | 5.87       | 29.35      |
| PK   | 7.38234G     | 53.65             | 74.00             | -20.35         | 13.15          | 3           | Vertical  | 193            | 1.50          | -       | 40.50         | 36.22      | 7.35       | 30.42      |

## 802.11n HT20\_Nss1,(MCS0)\_2TX

31/10/2019

### 2462MHz\_TX

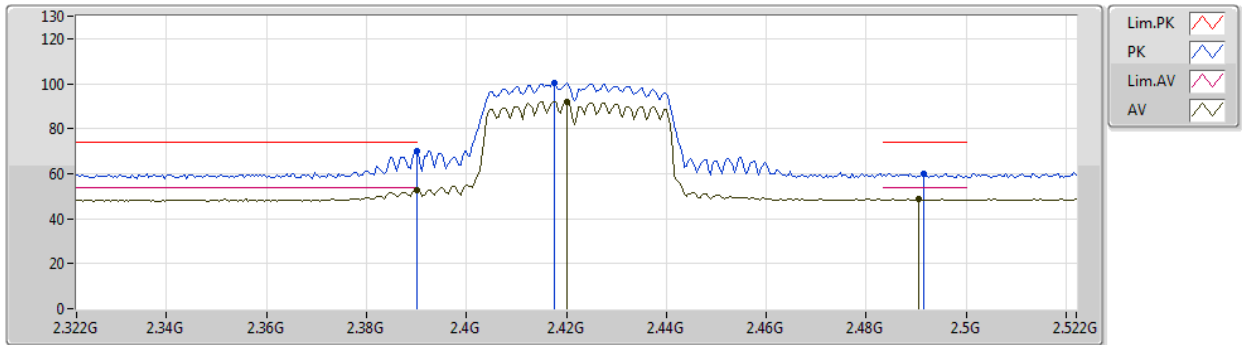


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.92658G     | 42.23             | 54.00             | -11.77         | 7.80           | 3           | Horizontal | 204            | 1.26          | -       | 34.43         | 31.28      | 5.87       | 29.35      |
| AV   | 7.38696G     | 40.24             | 54.00             | -13.76         | 13.13          | 3           | Horizontal | 47             | 2.23          | -       | 27.11         | 36.21      | 7.34       | 30.42      |
| PK   | 4.92592G     | 56.18             | 74.00             | -17.82         | 7.80           | 3           | Horizontal | 204            | 1.26          | -       | 48.38         | 31.28      | 5.87       | 29.35      |
| PK   | 7.38288G     | 52.48             | 74.00             | -21.52         | 13.15          | 3           | Horizontal | 47             | 2.23          | -       | 39.33         | 36.22      | 7.35       | 30.42      |

# 802.11n HT40\_Nss1,(MCS0)\_2TX

20/11/2019

## 2422MHz\_TX

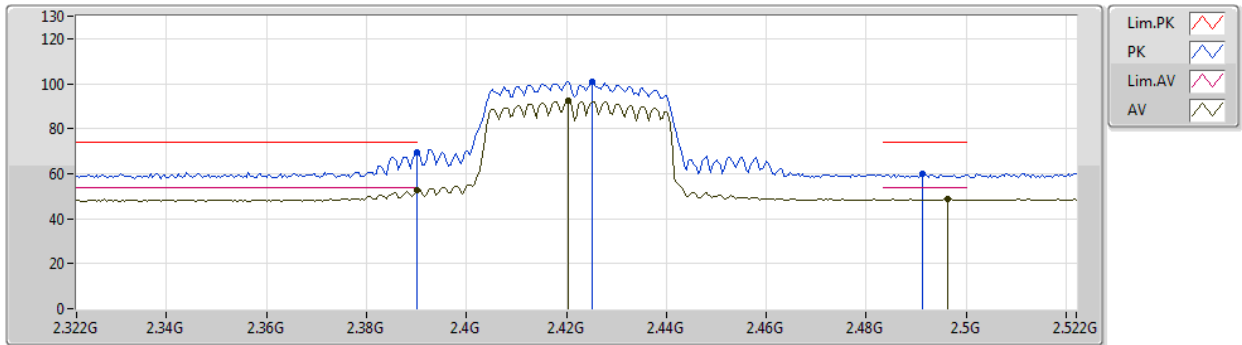


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 52.58             | 54.00             | -1.42          | 34.97          | 3           | Vertical  | 341            | 1.50          | -       | 17.61         | 27.64      | 7.33       | -          |
| AV   | 2.42G        | 91.75             | Inf               | -Inf           | 34.92          | 3           | Vertical  | 341            | 1.50          | -       | 56.83         | 27.58      | 7.34       | -          |
| AV   | 2.4904G      | 48.56             | 54.00             | -5.44          | 34.88          | 3           | Vertical  | 341            | 1.50          | -       | 13.68         | 27.51      | 7.37       | -          |
| PK   | 2.39G        | 69.80             | 74.00             | -4.20          | 34.97          | 3           | Vertical  | 341            | 1.50          | -       | 34.83         | 27.64      | 7.33       | -          |
| PK   | 2.4176G      | 100.38            | Inf               | -Inf           | 34.92          | 3           | Vertical  | 341            | 1.50          | -       | 65.46         | 27.58      | 7.34       | -          |
| PK   | 2.4916G      | 59.94             | 74.00             | -14.06         | 34.88          | 3           | Vertical  | 341            | 1.50          | -       | 25.06         | 27.51      | 7.37       | -          |

# 802.11n HT40\_Nss1,(MCS0)\_2TX

20/11/2019

## 2422MHz\_TX

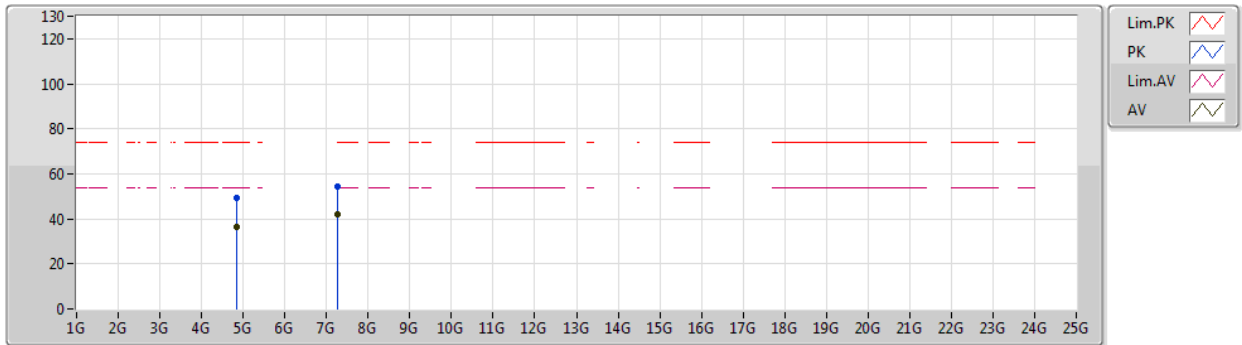


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 52.43             | 54.00             | -1.57          | 34.97          | 3           | Horizontal | 81             | 1.00          | -       | 17.46         | 27.64      | 7.33       | -          |
| AV   | 2.4204G      | 92.35             | Inf               | -Inf           | 34.92          | 3           | Horizontal | 81             | 1.00          | -       | 57.43         | 27.58      | 7.34       | -          |
| AV   | 2.4964G      | 48.75             | 54.00             | -5.25          | 34.87          | 3           | Horizontal | 81             | 1.00          | -       | 13.88         | 27.50      | 7.37       | -          |
| PK   | 2.39G        | 69.73             | 74.00             | -4.27          | 34.97          | 3           | Horizontal | 81             | 1.00          | -       | 34.76         | 27.64      | 7.33       | -          |
| PK   | 2.4252G      | 100.86            | Inf               | -Inf           | 34.91          | 3           | Horizontal | 81             | 1.00          | -       | 65.95         | 27.57      | 7.34       | -          |
| PK   | 2.4912G      | 59.77             | 74.00             | -14.23         | 34.88          | 3           | Horizontal | 81             | 1.00          | -       | 24.89         | 27.51      | 7.37       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

20/11/2019

### 2422MHz\_TX

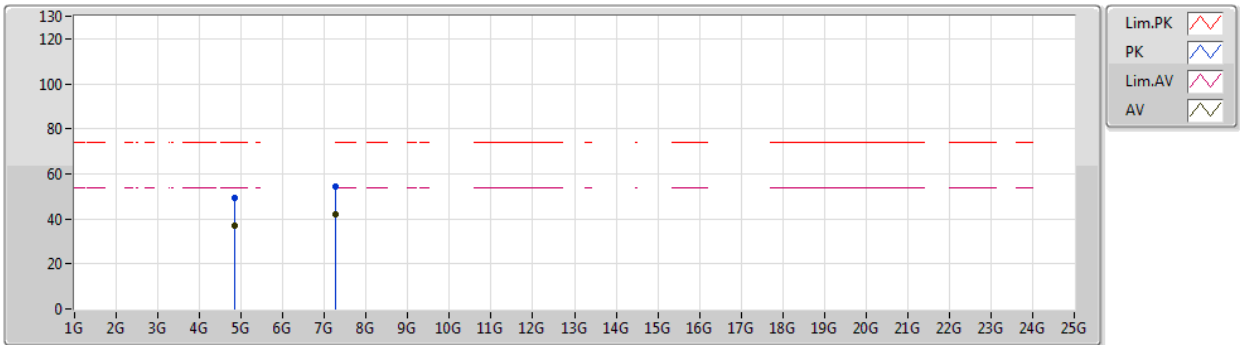


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.84006G     | 36.34             | 54.00             | -17.66         | 7.00           | 3           | Vertical  | 307            | 1.50          | -       | 29.34         | 31.10      | 9.95       | 34.05      |
| AV   | 7.2646G      | 41.80             | 54.00             | -12.20         | 13.24          | 3           | Vertical  | 275            | 3.00          | -       | 28.56         | 36.23      | 11.28      | 34.27      |
| PK   | 4.84522G     | 49.04             | 74.00             | -24.96         | 7.00           | 3           | Vertical  | 307            | 1.50          | -       | 42.04         | 31.10      | 9.95       | 34.05      |
| PK   | 7.26936G     | 54.29             | 74.00             | -19.71         | 13.25          | 3           | Vertical  | 275            | 3.00          | -       | 41.04         | 36.24      | 11.28      | 34.27      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

20/11/2019

### 2422MHz\_TX

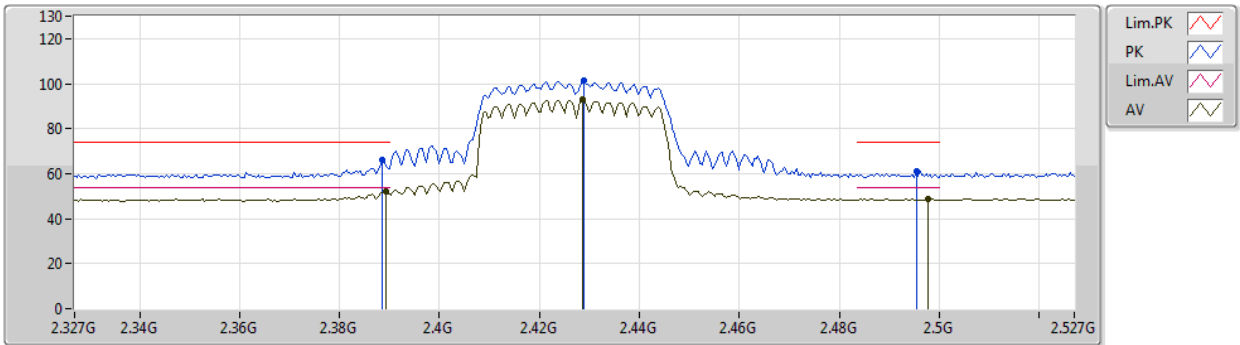


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8445G      | 36.95             | 54.00             | -17.05         | 7.00           | 3           | Horizontal | 190            | 1.73          | -       | 29.95         | 31.10      | 9.95       | 34.05      |
| AV   | 7.26186G     | 41.89             | 54.00             | -12.11         | 13.23          | 3           | Horizontal | 102            | 1.97          | -       | 28.66         | 36.22      | 11.28      | 34.27      |
| PK   | 4.8447G      | 49.35             | 74.00             | -24.65         | 7.00           | 3           | Horizontal | 190            | 1.73          | -       | 42.35         | 31.10      | 9.95       | 34.05      |
| PK   | 7.26792G     | 54.15             | 74.00             | -19.85         | 13.25          | 3           | Horizontal | 102            | 1.97          | -       | 40.90         | 36.24      | 11.28      | 34.27      |

# 802.11n HT40\_Nss1,(MCS0)\_2TX

20/11/2019

## 2427MHz\_TX

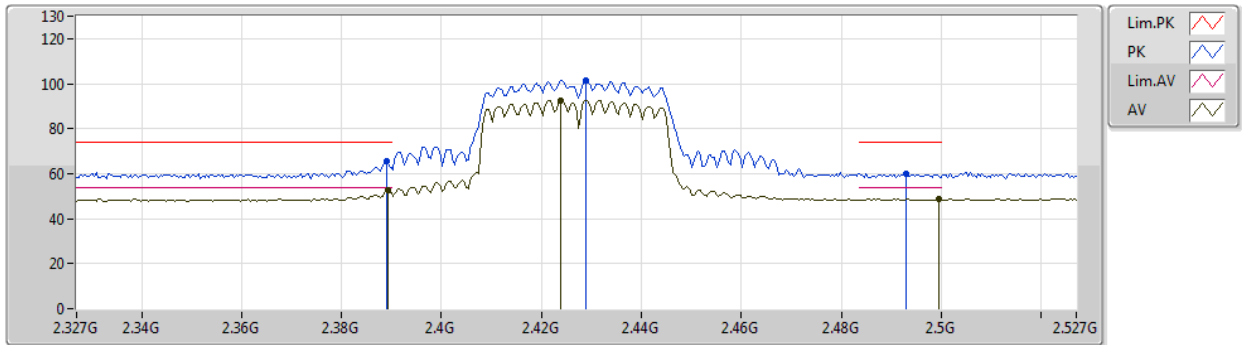


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3894G      | 52.29             | 54.00             | -1.71          | 34.97          | 3           | Vertical  | 344            | 1.03          | -       | 17.32         | 27.64      | 7.33       | -          |
| AV   | 2.4286G      | 92.93             | Inf               | -Inf           | 34.91          | 3           | Vertical  | 344            | 1.03          | -       | 58.02         | 27.57      | 7.34       | -          |
| AV   | 2.4978G      | 48.83             | 54.00             | -5.17          | 34.87          | 3           | Vertical  | 344            | 1.03          | -       | 13.96         | 27.50      | 7.37       | -          |
| PK   | 2.3886G      | 66.12             | 74.00             | -7.88          | 34.98          | 3           | Vertical  | 344            | 1.03          | -       | 31.14         | 27.65      | 7.33       | -          |
| PK   | 2.429G       | 101.25            | Inf               | -Inf           | 34.91          | 3           | Vertical  | 344            | 1.03          | -       | 66.34         | 27.57      | 7.34       | -          |
| PK   | 2.4954G      | 60.94             | 74.00             | -13.06         | 34.87          | 3           | Vertical  | 344            | 1.03          | -       | 26.07         | 27.50      | 7.37       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

20/11/2019

### 2427MHz\_TX

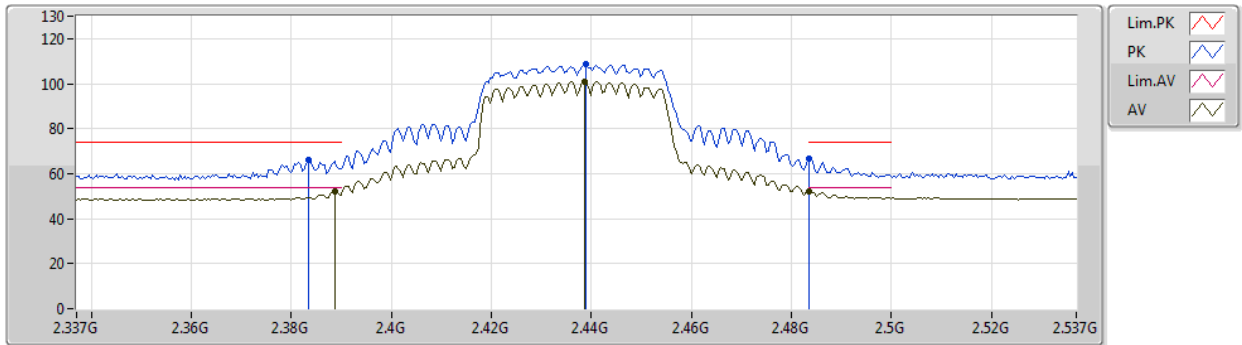


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3894G      | 52.71             | 54.00             | -1.29          | 34.97          | 3           | Horizontal | 87             | 1.00          | -       | 17.74         | 27.64      | 7.33       | -          |
| AV   | 2.4238G      | 92.53             | Inf               | -Inf           | 34.92          | 3           | Horizontal | 87             | 1.00          | -       | 57.61         | 27.58      | 7.34       | -          |
| AV   | 2.4994G      | 48.58             | 54.00             | -5.42          | 34.87          | 3           | Horizontal | 87             | 1.00          | -       | 13.71         | 27.50      | 7.37       | -          |
| PK   | 2.389G       | 65.49             | 74.00             | -8.51          | 34.97          | 3           | Horizontal | 87             | 1.00          | -       | 30.52         | 27.64      | 7.33       | -          |
| PK   | 2.429G       | 101.40            | Inf               | -Inf           | 34.91          | 3           | Horizontal | 87             | 1.00          | -       | 66.49         | 27.57      | 7.34       | -          |
| PK   | 2.493G       | 60.03             | 74.00             | -13.97         | 34.88          | 3           | Horizontal | 87             | 1.00          | -       | 25.15         | 27.51      | 7.37       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2437MHz\_TX

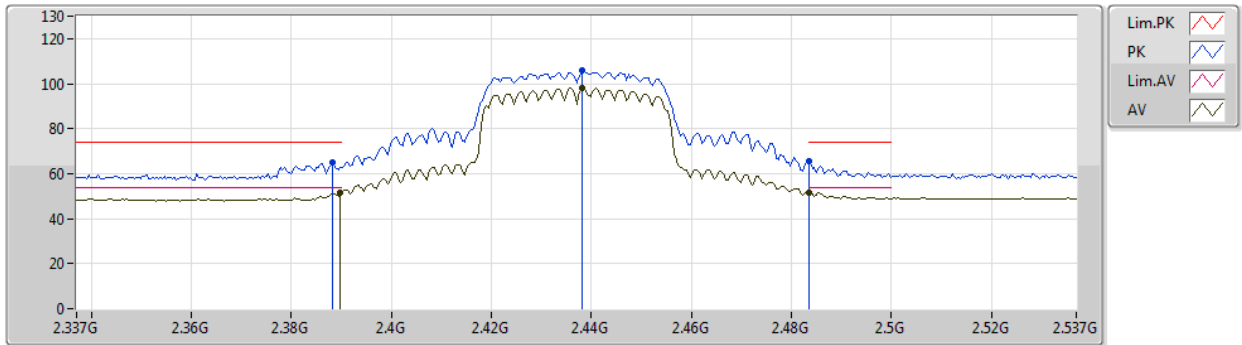


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3886G      | 52.31             | 54.00             | -1.69          | 31.55          | 3           | Vertical  | 191            | 1.18          | -       | 20.76         | 27.55      | 4.00       | -          |
| AV   | 2.4386G      | 101.14            | Inf               | -Inf           | 31.46          | 3           | Vertical  | 191            | 1.18          | -       | 69.68         | 27.42      | 4.04       | -          |
| AV   | 2.4835G      | 52.21             | 54.00             | -1.79          | 31.41          | 3           | Vertical  | 191            | 1.18          | -       | 20.80         | 27.33      | 4.08       | -          |
| PK   | 2.3834G      | 66.08             | 74.00             | -7.92          | 31.56          | 3           | Vertical  | 191            | 1.18          | -       | 34.52         | 27.57      | 3.99       | -          |
| PK   | 2.439G       | 108.65            | Inf               | -Inf           | 31.46          | 3           | Vertical  | 191            | 1.18          | -       | 77.19         | 27.42      | 4.04       | -          |
| PK   | 2.4835G      | 66.58             | 74.00             | -7.42          | 31.41          | 3           | Vertical  | 191            | 1.18          | -       | 35.17         | 27.33      | 4.08       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2437MHz\_TX

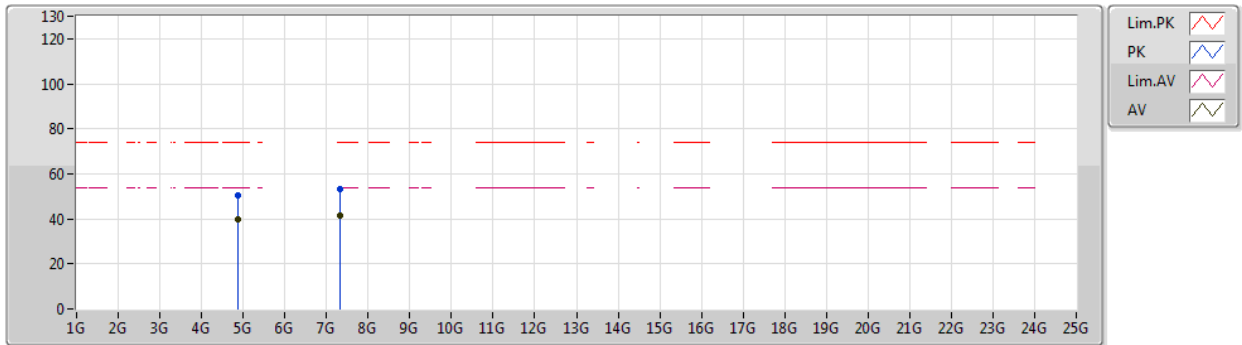


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3898G      | 51.31             | 54.00             | -2.69          | 31.54          | 3           | Horizontal | 177            | 1.40          | -       | 19.77         | 27.54      | 4.00       | -          |
| AV   | 2.4382G      | 98.30             | Inf               | -Inf           | 31.46          | 3           | Horizontal | 177            | 1.40          | -       | 66.84         | 27.42      | 4.04       | -          |
| AV   | 2.4835G      | 51.68             | 54.00             | -2.32          | 31.41          | 3           | Horizontal | 177            | 1.40          | -       | 20.27         | 27.33      | 4.08       | -          |
| PK   | 2.3882G      | 64.83             | 74.00             | -9.17          | 31.54          | 3           | Horizontal | 177            | 1.40          | -       | 33.29         | 27.55      | 3.99       | -          |
| PK   | 2.4382G      | 105.85            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 177            | 1.40          | -       | 74.39         | 27.42      | 4.04       | -          |
| PK   | 2.4835G      | 65.44             | 74.00             | -8.56          | 31.41          | 3           | Horizontal | 177            | 1.40          | -       | 34.03         | 27.33      | 4.08       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2437MHz\_TX

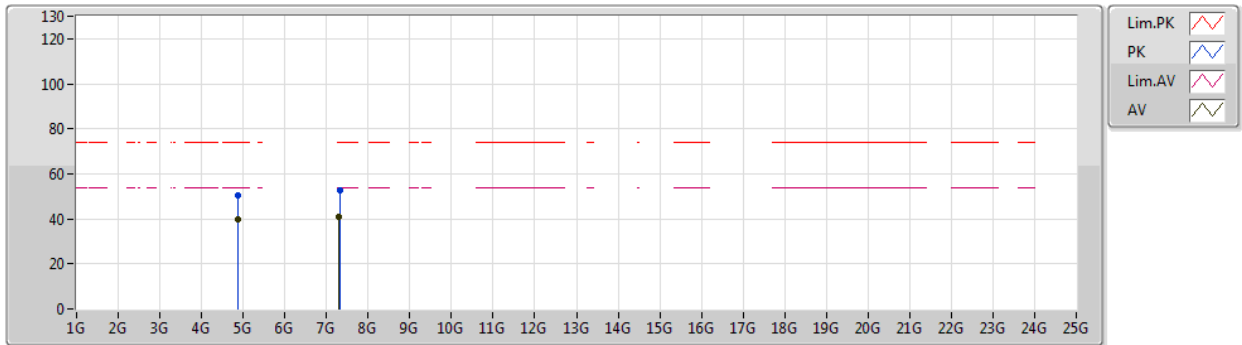


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.87394G     | 39.82             | 54.00             | -14.18         | 7.62           | 3           | Vertical  | 124            | 1.11          | -       | 32.20         | 31.17      | 5.83       | 29.38      |
| AV   | 7.31598G     | 41.71             | 54.00             | -12.29         | 13.39          | 3           | Vertical  | 198            | 3.00          | -       | 28.32         | 36.28      | 7.47       | 30.36      |
| PK   | 4.87358G     | 50.61             | 74.00             | -23.39         | 7.62           | 3           | Vertical  | 124            | 1.11          | -       | 42.99         | 31.17      | 5.83       | 29.38      |
| PK   | 7.31976G     | 53.33             | 74.00             | -20.67         | 13.38          | 3           | Vertical  | 198            | 3.00          | -       | 39.95         | 36.28      | 7.46       | 30.36      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

## 2437MHz\_TX

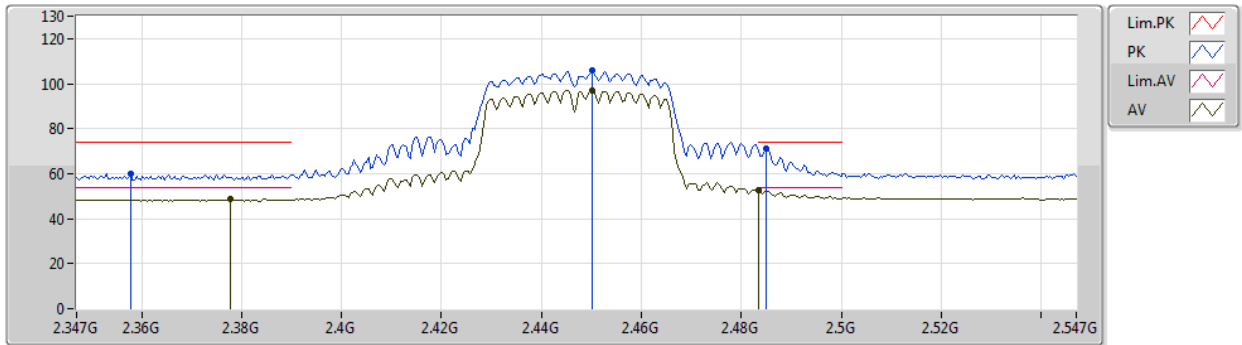


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.8737G      | 39.62             | 54.00             | -14.38         | 7.62           | 3           | Horizontal | 203            | 1.25          | -       | 32.00         | 31.17      | 5.83       | 29.38      |
| AV   | 7.3011G      | 40.73             | 54.00             | -13.27         | 13.45          | 3           | Horizontal | 89             | 2.43          | -       | 27.28         | 36.30      | 7.50       | 30.35      |
| PK   | 4.87556G     | 50.38             | 74.00             | -23.62         | 7.63           | 3           | Horizontal | 203            | 1.25          | -       | 42.75         | 31.18      | 5.83       | 29.38      |
| PK   | 7.3176G      | 52.41             | 74.00             | -21.59         | 13.39          | 3           | Horizontal | 89             | 2.43          | -       | 39.02         | 36.28      | 7.47       | 30.36      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2447MHz\_TX

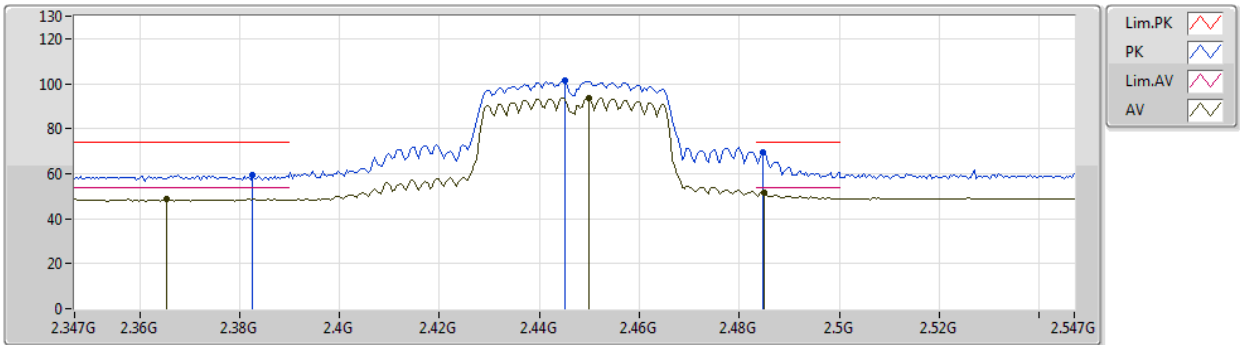


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3778G      | 48.58             | 54.00             | -5.42          | 31.58          | 3           | Vertical  | 194            | 1.00          | -       | 17.00         | 27.59      | 3.99       | -          |
| AV   | 2.4502G      | 96.99             | Inf               | -Inf           | 31.45          | 3           | Vertical  | 194            | 1.00          | -       | 65.54         | 27.40      | 4.05       | -          |
| AV   | 2.4835G      | 52.86             | 54.00             | -1.14          | 31.41          | 3           | Vertical  | 194            | 1.00          | -       | 21.45         | 27.33      | 4.08       | -          |
| PK   | 2.3578G      | 60.17             | 74.00             | -13.83         | 31.64          | 3           | Vertical  | 194            | 1.00          | -       | 28.53         | 27.67      | 3.97       | -          |
| PK   | 2.4502G      | 105.75            | Inf               | -Inf           | 31.45          | 3           | Vertical  | 194            | 1.00          | -       | 74.30         | 27.40      | 4.05       | -          |
| PK   | 2.485G       | 71.12             | 74.00             | -2.88          | 31.42          | 3           | Vertical  | 194            | 1.00          | -       | 39.70         | 27.33      | 4.09       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2447MHz\_TX

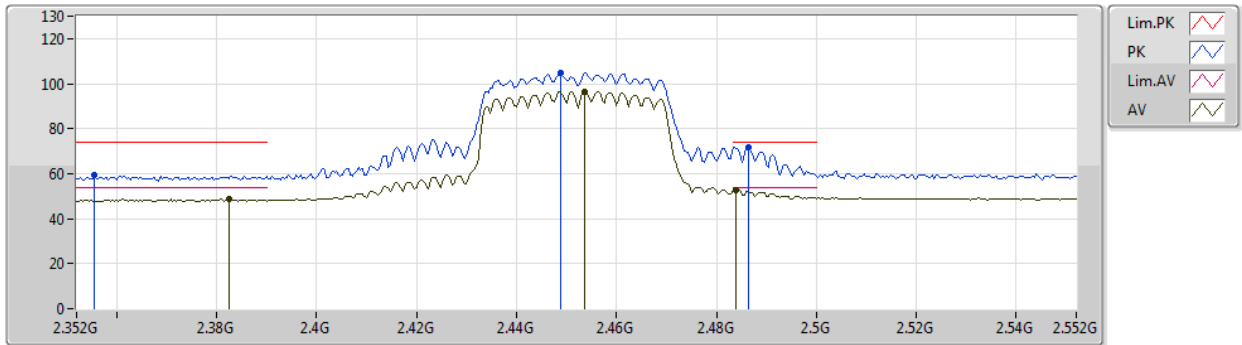


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3654G      | 48.81             | 54.00             | -5.19          | 31.61          | 3           | Horizontal | 178            | 1.75          | -       | 17.20         | 27.64      | 3.97       | -          |
| AV   | 2.4498G      | 93.69             | Inf               | -Inf           | 31.45          | 3           | Horizontal | 178            | 1.75          | -       | 62.24         | 27.40      | 4.05       | -          |
| AV   | 2.485G       | 51.70             | 54.00             | -2.30          | 31.42          | 3           | Horizontal | 178            | 1.75          | -       | 20.28         | 27.33      | 4.09       | -          |
| PK   | 2.3826G      | 59.43             | 74.00             | -14.57         | 31.56          | 3           | Horizontal | 178            | 1.75          | -       | 27.87         | 27.57      | 3.99       | -          |
| PK   | 2.445G       | 101.40            | Inf               | -Inf           | 31.46          | 3           | Horizontal | 178            | 1.75          | -       | 69.94         | 27.41      | 4.05       | -          |
| PK   | 2.4846G      | 69.37             | 74.00             | -4.63          | 31.42          | 3           | Horizontal | 178            | 1.75          | -       | 37.95         | 27.33      | 4.09       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2452MHz\_TX

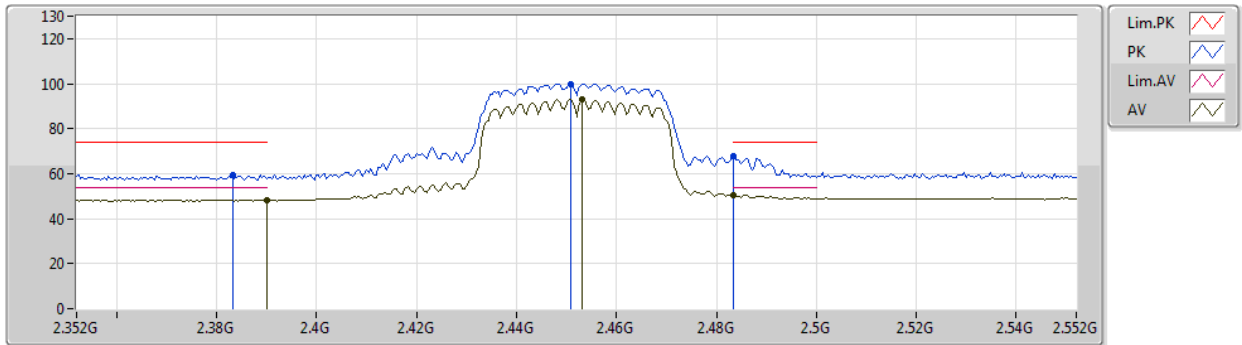


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.3824G      | 48.82             | 54.00             | -5.18          | 31.56          | 3           | Vertical  | 192            | 1.00          | -       | 17.26         | 27.57      | 3.99       | -          |
| AV   | 2.4536G      | 96.36             | Inf               | -Inf           | 31.45          | 3           | Vertical  | 192            | 1.00          | -       | 64.91         | 27.39      | 4.06       | -          |
| AV   | 2.484G       | 52.87             | 54.00             | -1.13          | 31.41          | 3           | Vertical  | 192            | 1.00          | -       | 21.46         | 27.33      | 4.08       | -          |
| PK   | 2.3556G      | 59.32             | 74.00             | -14.68         | 31.64          | 3           | Vertical  | 192            | 1.00          | -       | 27.68         | 27.68      | 3.96       | -          |
| PK   | 2.4488G      | 104.96            | Inf               | -Inf           | 31.45          | 3           | Vertical  | 192            | 1.00          | -       | 73.51         | 27.40      | 4.05       | -          |
| PK   | 2.4864G      | 71.91             | 74.00             | -2.09          | 31.42          | 3           | Vertical  | 192            | 1.00          | -       | 40.49         | 27.33      | 4.09       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2452MHz\_TX

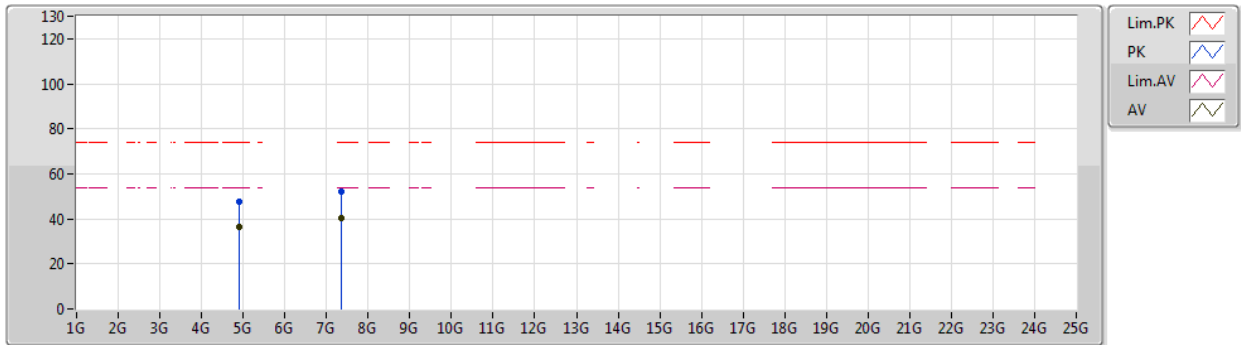


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 2.39G        | 48.39             | 54.00             | -5.61          | 31.54          | 3           | Horizontal | 176            | 1.25          | -       | 16.85         | 27.54      | 4.00       | -          |
| AV   | 2.4532G      | 92.98             | Inf               | -Inf           | 31.45          | 3           | Horizontal | 176            | 1.25          | -       | 61.53         | 27.39      | 4.06       | -          |
| AV   | 2.4835G      | 50.52             | 54.00             | -3.48          | 31.41          | 3           | Horizontal | 176            | 1.25          | -       | 19.11         | 27.33      | 4.08       | -          |
| PK   | 2.3832G      | 59.36             | 74.00             | -14.64         | 31.56          | 3           | Horizontal | 176            | 1.25          | -       | 27.80         | 27.57      | 3.99       | -          |
| PK   | 2.4508G      | 99.91             | Inf               | -Inf           | 31.45          | 3           | Horizontal | 176            | 1.25          | -       | 68.46         | 27.40      | 4.05       | -          |
| PK   | 2.4835G      | 67.71             | 74.00             | -6.29          | 31.41          | 3           | Horizontal | 176            | 1.25          | -       | 36.30         | 27.33      | 4.08       | -          |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2452MHz\_TX

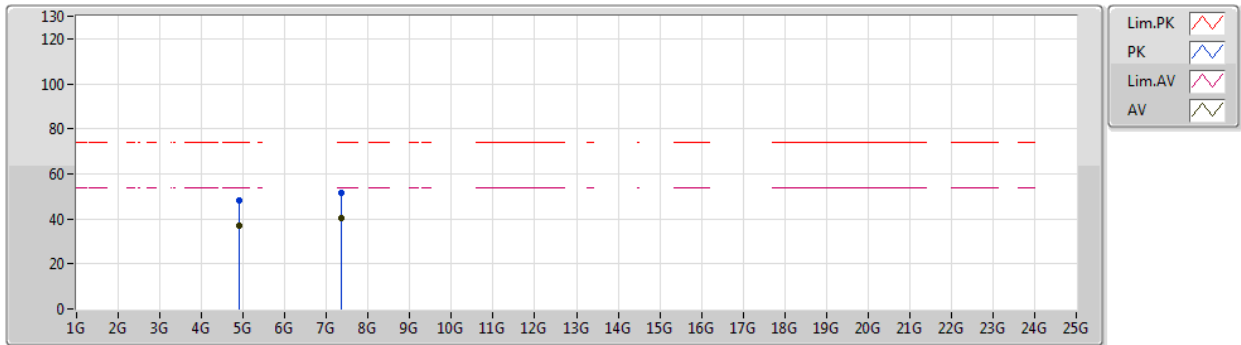


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comment | Raw<br>(dBuV) | AF<br>(dB) | CL<br>(dB) | PA<br>(dB) |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|---------|---------------|------------|------------|------------|
| AV   | 4.9037G      | 36.37             | 54.00             | -17.63         | 7.70           | 3           | Vertical  | 125            | 1.15          | -       | 28.67         | 31.21      | 5.85       | 29.36      |
| AV   | 7.34316G     | 40.42             | 54.00             | -13.58         | 13.29          | 3           | Vertical  | 331            | 1.42          | -       | 27.13         | 36.26      | 7.42       | 30.39      |
| PK   | 4.91318G     | 47.35             | 74.00             | -26.65         | 7.74           | 3           | Vertical  | 125            | 1.15          | -       | 39.61         | 31.24      | 5.86       | 29.36      |
| PK   | 7.3506G      | 52.29             | 74.00             | -21.71         | 13.26          | 3           | Vertical  | 331            | 1.42          | -       | 39.03         | 36.25      | 7.40       | 30.39      |

## 802.11n HT40\_Nss1,(MCS0)\_2TX

31/10/2019

### 2452MHz\_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   | 4.904G       | 36.86             | 54.00             | -17.14         | 7.70           | 3           | Horizontal | 205            | 1.32          | -       | 29.16         | 31.21      | 5.85       | 29.36      |
| AV   | 7.36254G     | 40.39             | 54.00             | -13.61         | 13.22          | 3           | Horizontal | 121            | 1.50          | -       | 27.17         | 36.24      | 7.38       | 30.40      |
| PK   | 4.91384G     | 48.21             | 74.00             | -25.79         | 7.74           | 3           | Horizontal | 205            | 1.32          | -       | 40.47         | 31.24      | 5.86       | 29.36      |
| PK   | 7.35396G     | 51.53             | 74.00             | -22.47         | 13.26          | 3           | Horizontal | 121            | 1.50          | -       | 38.27         | 36.25      | 7.40       | 30.39      |