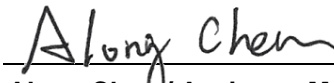


# FCC Test Report

**FCC ID** : SWX-M2LW  
**Equipment** : NanoStation locoM  
**Model No.** : LocoM2  
**Brand Name** : UBIQUITI  
**Applicant** : Ubiquiti Inc.  
**Address** : 685 Third Avenue, New York, New York 10017  
USA  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : May 14, 2019  
**Tested Date** : Jun. 18 ~ Jul. 29, 2019

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
\_\_\_\_\_  
Along Chen / Assistant Manager

Approved by:

  
\_\_\_\_\_  
Gary Chang / Manager



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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR951401   | Rev. 01 | Initial issue | Oct. 22, 2019 |

## Summary of Test Results

| FCC Rules           | Test Items             | Measured   | Result |
|---------------------|------------------------|--|--------|
| 15.207              | Conducted Emissions    | [dBuV]: 0.426MHz<br>36.05 (Margin -11.24dB) - AV                                       | Pass   |
| 15.247(d)<br>15.209 | Radiated Emissions     | [dBuV/m at 3m]: 2390.00MHz<br>53.84 (Margin -0.16dB) - AV                              | Pass   |
| 15.247(b)(3)        | Maximum Output Power   | Max Power [dBm]:<br>Wi-Fi point-to- point : 29.26<br>Wi-Fi point-to-multipoint : 27.96 | Pass   |
| 15.247(a)(2)        | 6dB Bandwidth          | Meet the requirement of limit  | Pass   |
| 15.247(e)           | Power Spectral Density | Meet the requirement of limit  | Pass   |
| 15.203              | Antenna Requirement    | Meet the requirement of limit  | Pass   |

### Declaration of Conformity:

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

### Comments and Explanations:

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

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information |                  |          |                 |                |                                    |                 |
|------------------------|------------------|----------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | BW (MHz) | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS |
| 2400-2483.5            | b                | 5        | 2412-2462       | 1-11 [11]      | 2                                  | 1-11 Mbps       |
|                        |                  | 8        | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 10       | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 20       | 2412-2462       | 1-11 [11]      |                                    |                 |
| 2400-2483.5            | g                | 5        | 2412-2462       | 1-11 [11]      | 2                                  | 6-54 Mbps       |
|                        |                  | 8        | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 10       | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 20       | 2412-2462       | 1-11 [11]      |                                    |                 |
| 2400-2483.5            | n                | 5        | 2412-2462       | 1-11 [11]      | 2                                  | MCS 0-15        |
|                        |                  | 8        | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 10       | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 20       | 2412-2462       | 1-11 [11]      |                                    |                 |
|                        |                  | 30       | 2417-2457       | 2-10 [9]       |                                    |                 |
| 40                     | 2422-2452        | 3-9 [7]  |                 |                |                                    |                 |

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.  
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

### 1.1.2 Antenna Details

| Ant. No. | Type     | Gain (dBi) | Connector | Remark |
|----------|----------|------------|-----------|--------|
| 1        | Internal | 8          | N/A       | ---    |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

|                          |                |
|--------------------------|----------------|
| <b>Power Supply Type</b> | 24Vdc from POE |
|--------------------------|----------------|

### 1.1.4 Accessories

| Accessories |           |   |
|-------------|-----------|---|
| No.         | Equipment | Description   |
| 1           | POE       | Brand: UBIQUITI NETWORKS<br>Model: GP-A240-050<br>Power Rating:<br>I/P: 100-240Vac, 50/60Hz, 0.3A Max<br>O/P: 24Vdc, 0.5A<br>Power Line: 0.7m non-shielded without core |

### 1.1.5 Channel List

| Frequency band (MHz) |         | 2400~2483.5    |  |
|----------------------|---------|----------------|--|
| 802.11 b / g         |         |                |  |
| BW(MHz)              | Channel | Frequency(MHz) |  |
| 5<br>8<br>10<br>20   | 1       | 2412           |  |
|                      | 2       | 2417           |  |
|                      | 3       | 2422           |  |
|                      | 4       | 2427           |  |
|                      | 5       | 2432           |  |
|                      | 6       | 2437           |  |
|                      | 7       | 2442           |  |
|                      | 8       | 2447           |  |
|                      | 9       | 2452           |  |
|                      | 10      | 2457           |  |
|                      | 11      | 2462           |  |

| Frequency band (MHz) |         |                 | 2400~2483.5 |         |                 |         |         |                 |
|----------------------|---------|-----------------|-------------|---------|-----------------|---------|---------|-----------------|
| 802.11n              |         |                 |             |         |                 |         |         |                 |
| BW(MHz)              | Channel | Frequency (MHz) | BW(MHz)     | Channel | Frequency (MHz) | BW(MHz) | Channel | Frequency (MHz) |
| 5<br>8<br>10<br>20   | 1       | 2412            | 30          | 2       | 2417            | 40      | 3       | 2422            |
|                      | 2       | 2417            |             | 4       | 2427            |         | 4       | 2427            |
|                      | 3       | 2422            |             | 5       | 2432            |         | 5       | 2432            |
|                      | 4       | 2427            |             | 6       | 2437            |         | 6       | 2437            |
|                      | 5       | 2432            |             | 7       | 2442            |         | 7       | 2442            |
|                      | 6       | 2437            |             | 8       | 2447            |         | 8       | 2447            |
|                      | 7       | 2442            |             | 9       | 2452            |         | 9       | 2452            |
|                      | 8       | 2447            |             | 10      | 2457            |         | ---     | ---             |
|                      | 9       | 2452            |             | ---     | ---             |         | ---     | ---             |
|                      | 10      | 2457            |             | ---     | ---             |         | ---     | ---             |
|                      | 11      | 2462            |             | ---     | ---             |         | ---     | ---             |

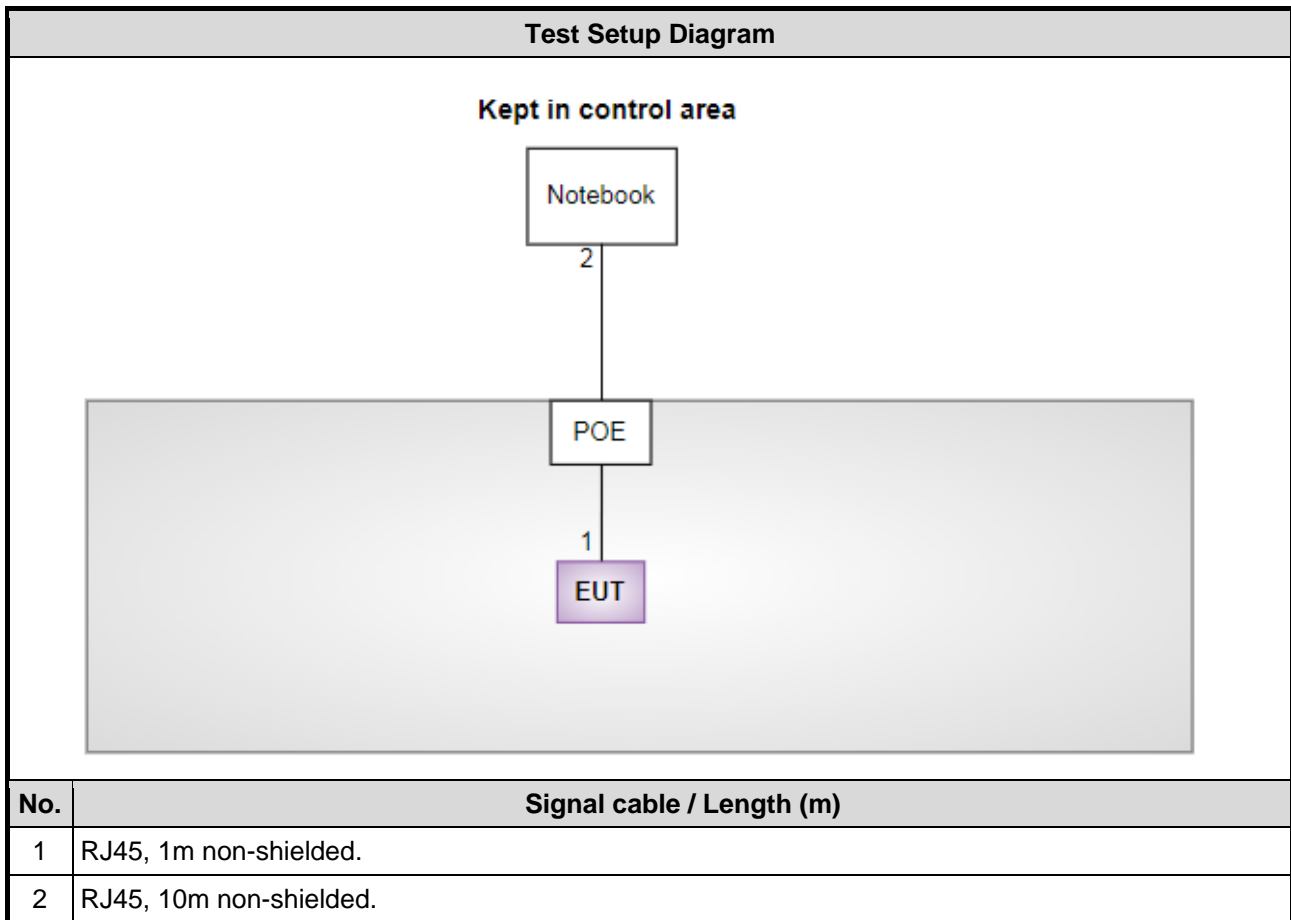
### 1.1.6 Test Tool and Duty Cycle

| Test Tool                  | Putty, V0.60.0.0 |         |                |                  |
|----------------------------|------------------|---------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode             | BW(MHz) | Duty Cycle (%) | Duty Factor (dB) |
|                            | 11b              | 5       | 100.00%        | 0.00             |
|                            | 11b              | 8       | 100.00%        | 0.00             |
|                            | 11b              | 10      | 100.00%        | 0.00             |
|                            | 11b              | 20      | 100.00%        | 0.00             |
|                            | 11g              | 5       | 98.06%         | 0.08             |
|                            | 11g              | 8       | 98.36%         | 0.07             |
|                            | 11g              | 10      | 98.54%         | 0.06             |
|                            | 11g              | 20      | 98.35%         | 0.07             |
|                            | n                | 5       | 98.34%         | 0.07             |
|                            | n                | 8       | 98.25%         | 0.08             |
|                            | n                | 10      | 98.08%         | 0.08             |
|                            | n                | 20      | 98.01%         | 0.09             |
|                            | n                | 30      | 96.56%         | 0.15             |
|                            | n                | 40      | 95.67%         | 0.19             |

## 1.2 Local Support Equipment List

| Support Equipment List |           |       |                |        |         |
|------------------------|-----------|-------|----------------|--------|---------|
| No.                    | Equipment | Brand | Model          | FCC ID | Remarks |
| 1                      | Notebook  | DELL  | Latitude E5470 | DoC    | ---     |

## 1.3 Test Setup Chart





## 1.4 The Equipment List

|   |                               |                  |                   |                         |                          |
|---|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>  | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>  | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Tested Date</b>  | Jul. 25, 2019                 |                  |                   |                         |                          |
| <b>Instrument</b>   | <b>Manufacturer</b>           | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver  | R&S                           | ESR3             | 101657            | Jan. 08, 2019           | Jan. 07, 2020            |
| LISN  | R&S                           | ENV216           | 101579            | Mar. 08, 2019           | Mar. 07, 2020            |
| RF Cable-CON  | Woken                         | CFD200-NL        | CFD200-NL-001     | Oct. 23, 2018           | Oct. 22, 2019            |
| Measurement Software  | AUDIX                         | e3               | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                  |                   |                         |                          |

|   |                            |                   |                     |                         |                          |
|---|----------------------------|-------------------|---------------------|-------------------------|--------------------------|
| <b>Test Item</b>  | Radiated Emission          |                   |                     |                         |                          |
| <b>Test Site</b>  | 966 chamber1 / (03CH03-WS) |                   |                     |                         |                          |
| <b>Tested Date</b>  | Jun. 18 ~ Jul. 24, 2019    |                   |                     |                         |                          |
| <b>Instrument</b>   | <b>Manufacturer</b>        | <b>Model No.</b>  | <b>Serial No.</b>   | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer   | R&S                        | FSV40             | 101499              | Jan. 07, 2019           | Jan. 06, 2020            |
| Receiver  | R&S                        | ESR3              | 101658              | Dec. 11, 2018           | Dec. 10, 2019            |
| Bilog Antenna   | SCHWARZBECK                | VULB9168          | VULB9168-685        | Apr. 17, 2019           | Apr. 16, 2020            |
| Horn Antenna 1G-18G   | SCHWARZBECK                | BBHA 9120 D       | BBHA 9120 D 1206    | Jan. 07, 2019           | Jan. 06, 2020            |
| Horn Antenna 18G-40G  | SCHWARZBECK                | BBHA 9170         | BBHA 9170517        | Nov. 15, 2018           | Nov. 14, 2019            |
| Loop Antenna  | R&S                        | HFH2-Z2           | 100330              | Nov. 09, 2018           | Nov. 08, 2019            |
| Loop Antenna Cable  | KOAX KABEL                 | 101354-BW         | 101354-BW           | Oct. 08, 2018           | Oct. 07, 2019            |
| Preamplifier  | EMC                        | EMC02325          | 980194              | Sep. 18, 2018           | Sep. 17, 2019            |
| Preamplifier  | Agilent                    | 83017A            | MY39501308          | Oct. 04, 2018           | Oct. 03, 2019            |
| Preamplifier  | EMC                        | EMC184045B        | 980192              | Aug. 09, 2018           | Aug. 08, 2019            |
| RF cable-3M   | HUBER+SUHNER               | SUCOFLEX104       | MY22620/4           | Oct. 01, 2018           | Sep. 30, 2019            |
| RF cable-8M   | EMC                        | EMC104-SM-SM-8000 | 181107              | Oct. 01, 2018           | Sep. 30, 2019            |
| RF cable-1M   | HUBER+SUHNER               | SUCOFLEX104       | MY22624/4           | Oct. 01, 2018           | Sep. 30, 2019            |
| LF cable-0.8M   | EMC                        | EMC8D-NM-NM-8000  | EMC8D-NM-NM-800-001 | Oct. 01, 2018           | Sep. 30, 2019            |
| LF cable-3M   | EMC                        | EMC8D-NM-NM-3000  | 131103              | Oct. 01, 2018           | Sep. 30, 2019            |
| LF cable-13M  | EMC                        | EMC8D-NM-NM-13000 | 131104              | Oct. 01, 2018           | Sep. 30, 2019            |
| Measurement Software  | AUDIX                      | e3                | 6.120210g           | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                            |                   |                     |                         |                          |

|   |                     |                  |                   |                         |                          |
|---|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>  | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>  | (TH01-WS)           |                  |                   |                         |                          |
| <b>Tested Date</b>  | Jul. 29, 2019       |                  |                   |                         |                          |
| <b>Instrument</b>   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer   | R&S                 | FSV40            | 101063            | Apr. 17, 2019           | Apr. 16, 2020            |
| Power Meter   | Anritsu             | ML2495A          | 1241002           | Oct. 09, 2018           | Oct. 08, 2019            |
| Power Sensor  | Anritsu             | MA2411B          | 1207366           | Oct. 09, 2018           | Oct. 08, 2019            |
| DC POWER SOURCE   | GW INSTRON          | GPC-6030D        | EM892433          | Oct. 25, 2018           | Oct. 24, 2019            |
| Measurement Software  | Sporton             | SENSE-15247_DTS  | V5.10             | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |

## 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

## 1.6 Deviation from Test Standard and Measurement Procedure

None

## 1.7 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))

| Measurement Uncertainty  |             |
|--------------------------|-------------|
| Parameters               | Uncertainty |
| Bandwidth                | ±34.130 Hz  |
| Conducted power          | ±0.808 dB   |
| Power density            | ±0.583 dB   |
| Conducted emission       | ±2.715 dB   |
| AC conducted emission    | ±2.92 dB    |
| Radiated emission ≤ 1GHz | ±3.96 dB    |
| Radiated emission > 1GHz | ±4.51 dB    |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By |
|--------------------|-----------|-------------------|-----------|
| AC Conduction      | CO01-WS   | 24°C / 62%        | Alex Tsai |
| Radiated Emissions | 03CH03-WS | 24-25°C / 61-63%  | Roger Lu  |
| RF Conducted       | TH01-WS   | 21°C / 64%        | Brad Wu   |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

| Test item                | Modulation Mode | BW (MHz)     | Test Frequency (MHz) | Data Rate | Test Configuration |
|--------------------------|-----------------|--------------|----------------------|-----------|--------------------|
| Conducted Emissions      | 11n             | 5            | 2412                 | MCS 0     | 1                  |
|                          | 11n             | 10           | 2412                 |           | 2                  |
| Radiated Emissions ≤1GHz | 11n             | 5            | 2412                 | MCS 0     | 1                  |
|                          | 11n             | 10           | 2412                 |           | 2                  |
| Radiated Emissions >1GHz | 11b             | 5, 8, 10, 20 | 2412 / 2437 / 2462   | 1 Mbps    | 1, 2               |
| Maximum Output Power     | 11g             | 5, 8, 10, 20 | 2412 / 2437 / 2462   | 6 Mbps    | 1, 2               |
| 6dB bandwidth            | 11n             | 5, 8, 10, 20 | 2412 / 2437 / 2462   | MCS 0     | 1, 2               |
| Power spectral density   |                 |              |                      |           |                    |
|                          |                 | 40           | 2422 / 2437 / 2452   |           |                    |

**NOTE:**

1. The EUT had been tested by following test configurations.
  - 1) Configuration 1: Wi-Fi point-to- point
  - 2) Configuration 2: Wi-Fi point-to-multipoint

## 3 Transmitter Test Results

### 3.1 Conducted Emissions

#### 3.1.1 Limit of Conducted Emissions

| 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 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

#### 3.1.3 Test Setup

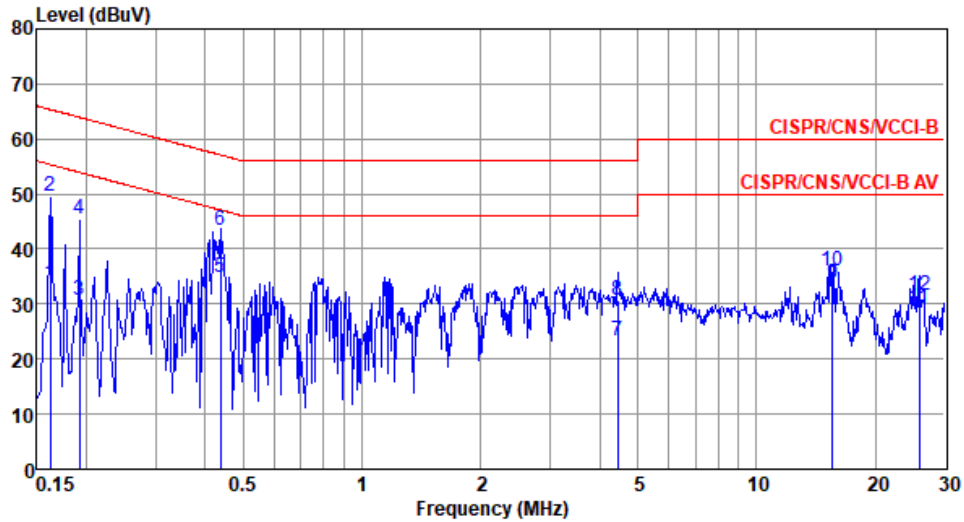


- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

**BW(MHz) : 5MHz**

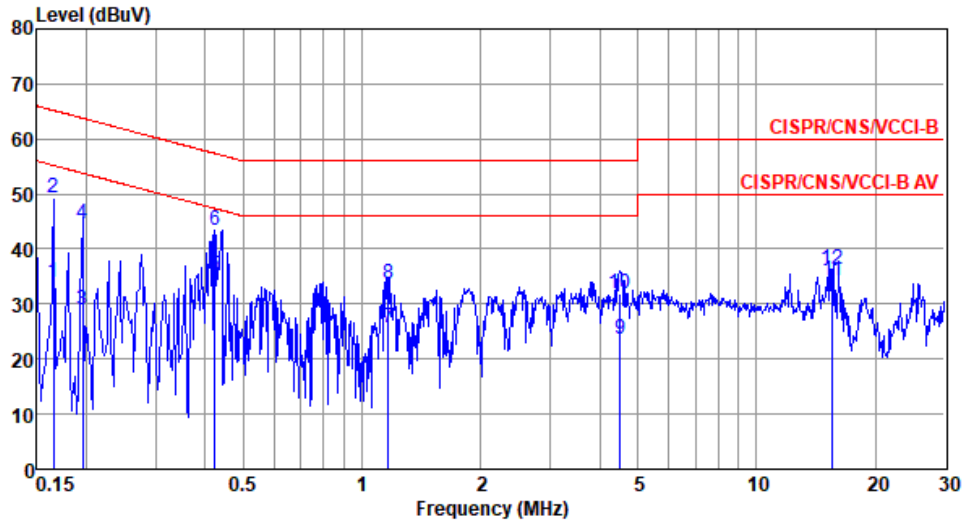
|             |      |                    |      |
|-------------|------|--------------------|------|
| Modulation  | 11n  | Test Freq. (MHz)   | 2412 |
| Power Phase | Line | Test Configuration | 1    |



|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.162       | 33.57         | 55.34                 | -21.77              | 23.98                 | 9.53                 | 0.06                | Average |
| 2  | 0.162       | 49.45         | 65.34                 | -15.89              | 39.86                 | 9.53                 | 0.06                | QP      |
| 3  | 0.192       | 30.69         | 53.93                 | -23.24              | 21.08                 | 9.54                 | 0.07                | Average |
| 4  | 0.192       | 45.46         | 63.93                 | -18.47              | 35.85                 | 9.54                 | 0.07                | QP      |
| 5* | 0.437       | 34.76         | 47.11                 | -12.35              | 25.11                 | 9.57                 | 0.08                | Average |
| 6  | 0.437       | 43.27         | 57.11                 | -13.84              | 33.62                 | 9.57                 | 0.08                | QP      |
| 7  | 4.454       | 23.22         | 46.00                 | -22.78              | 13.31                 | 9.61                 | 0.30                | Average |
| 8  | 4.454       | 30.58         | 56.00                 | -25.42              | 20.67                 | 9.61                 | 0.30                | QP      |
| 9  | 15.619      | 33.56         | 50.00                 | -16.44              | 23.33                 | 9.66                 | 0.57                | Average |
| 10 | 15.619      | 35.89         | 60.00                 | -24.11              | 25.66                 | 9.66                 | 0.57                | QP      |
| 11 | 25.878      | 29.27         | 50.00                 | -20.73              | 18.94                 | 9.63                 | 0.70                | Average |
| 12 | 25.878      | 31.71         | 60.00                 | -28.29              | 21.38                 | 9.63                 | 0.70                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|                    |         |                           |      |
|--------------------|---------|---------------------------|------|
| <b>Modulation</b>  | 11n     | <b>Test Freq. (MHz)</b>   | 2412 |
| <b>Power Phase</b> | Neutral | <b>Test Configuration</b> | 1    |

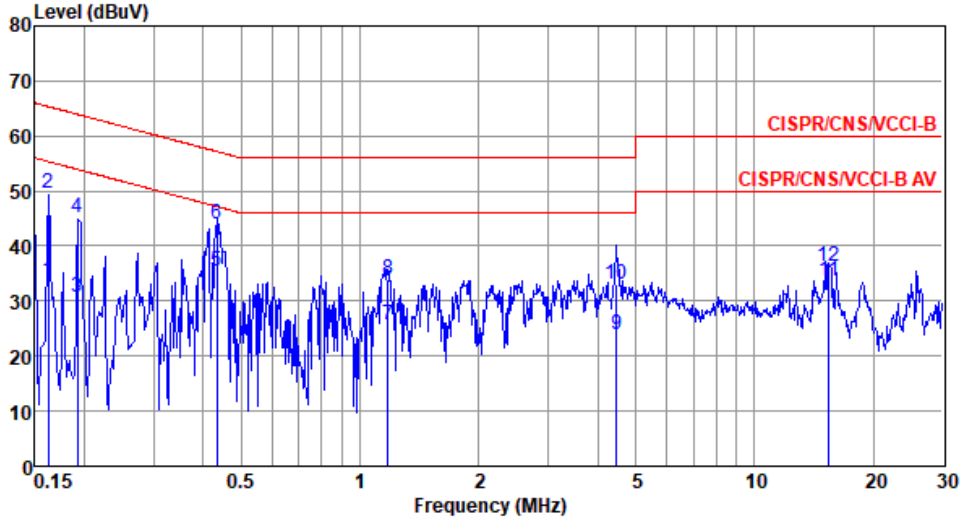


|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.165       | 33.86         | 55.21                 | -21.35              | 24.23                 | 9.57                 | 0.06                | Average |
| 2  | 0.165       | 49.27         | 65.21                 | -15.94              | 39.64                 | 9.57                 | 0.06                | QP      |
| 3  | 0.195       | 28.80         | 53.80                 | -25.00              | 19.15                 | 9.58                 | 0.07                | Average |
| 4  | 0.195       | 44.58         | 63.80                 | -19.22              | 34.93                 | 9.58                 | 0.07                | QP      |
| 5* | 0.424       | 35.13         | 47.37                 | -12.24              | 25.44                 | 9.61                 | 0.08                | Average |
| 6  | 0.424       | 43.51         | 57.37                 | -13.86              | 33.82                 | 9.61                 | 0.08                | QP      |
| 7  | 1.166       | 25.54         | 46.00                 | -20.46              | 15.79                 | 9.64                 | 0.11                | Average |
| 8  | 1.166       | 33.54         | 56.00                 | -22.46              | 23.79                 | 9.64                 | 0.11                | QP      |
| 9  | 4.501       | 23.74         | 46.00                 | -22.26              | 13.77                 | 9.67                 | 0.30                | Average |
| 10 | 4.501       | 31.99         | 56.00                 | -24.01              | 22.02                 | 9.67                 | 0.30                | QP      |
| 11 | 15.617      | 34.23         | 50.00                 | -15.77              | 23.89                 | 9.77                 | 0.57                | Average |
| 12 | 15.617      | 36.35         | 60.00                 | -23.65              | 26.01                 | 9.77                 | 0.57                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

**BW(MHz) : 10MHz**

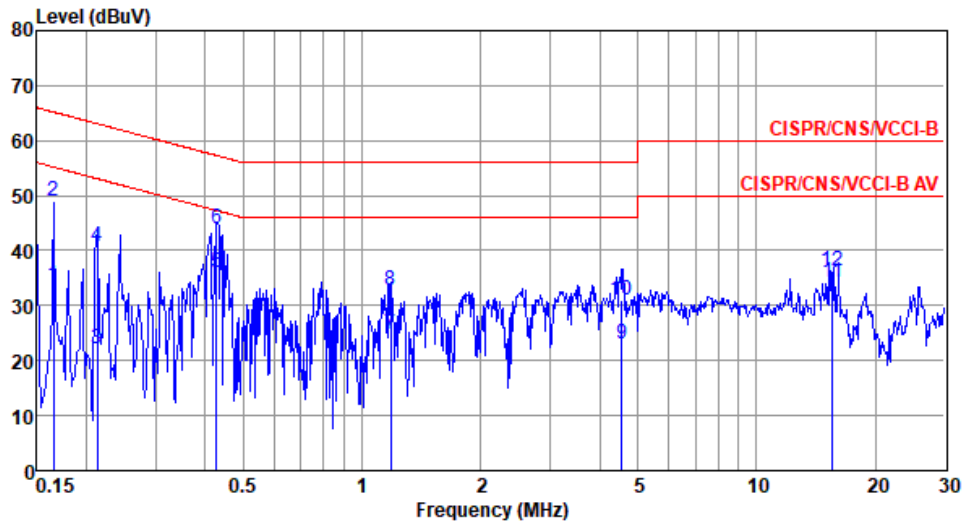
|                    |      |                           |      |
|--------------------|------|---------------------------|------|
| <b>Modulation</b>  | 11n  | <b>Test Freq. (MHz)</b>   | 2412 |
| <b>Power Phase</b> | Line | <b>Test Configuration</b> | 2    |



|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.162       | 33.75         | 55.34                 | -21.59              | 24.16                 | 9.53                 | 0.06                | Average |
| 2  | 0.162       | 49.50         | 65.34                 | -15.84              | 39.91                 | 9.53                 | 0.06                | QP      |
| 3  | 0.192       | 30.68         | 53.93                 | -23.25              | 21.07                 | 9.54                 | 0.07                | Average |
| 4  | 0.192       | 45.26         | 63.93                 | -18.67              | 35.65                 | 9.54                 | 0.07                | QP      |
| 5* | 0.433       | 35.52         | 47.20                 | -11.68              | 25.87                 | 9.57                 | 0.08                | Average |
| 6  | 0.433       | 43.89         | 57.20                 | -13.31              | 34.24                 | 9.57                 | 0.08                | QP      |
| 7  | 1.178       | 25.54         | 46.00                 | -20.46              | 15.83                 | 9.60                 | 0.11                | Average |
| 8  | 1.178       | 33.98         | 56.00                 | -22.02              | 24.27                 | 9.60                 | 0.11                | QP      |
| 9  | 4.463       | 24.03         | 46.00                 | -21.97              | 14.12                 | 9.61                 | 0.30                | Average |
| 10 | 4.463       | 33.06         | 56.00                 | -22.94              | 23.15                 | 9.61                 | 0.30                | QP      |
| 11 | 15.435      | 33.78         | 50.00                 | -16.22              | 23.56                 | 9.66                 | 0.56                | Average |
| 12 | 15.435      | 36.20         | 60.00                 | -23.80              | 25.98                 | 9.66                 | 0.56                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|                    |         |                           |      |
|--------------------|---------|---------------------------|------|
| <b>Modulation</b>  | 11n     | <b>Test Freq. (MHz)</b>   | 2412 |
| <b>Power Phase</b> | Neutral | <b>Test Configuration</b> | 2    |



|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.165       | 33.70         | 55.21                 | -21.51              | 24.07                 | 9.57                 | 0.06                | Average |
| 2  | 0.165       | 49.06         | 65.21                 | -16.15              | 39.43                 | 9.57                 | 0.06                | QP      |
| 3  | 0.213       | 22.18         | 53.10                 | -30.92              | 12.53                 | 9.58                 | 0.07                | Average |
| 4  | 0.213       | 40.85         | 63.10                 | -22.25              | 31.20                 | 9.58                 | 0.07                | QP      |
| 5* | 0.428       | 36.05         | 47.29                 | -11.24              | 26.36                 | 9.61                 | 0.08                | Average |
| 6  | 0.428       | 43.96         | 57.29                 | -13.33              | 34.27                 | 9.61                 | 0.08                | QP      |
| 7  | 1.184       | 24.78         | 46.00                 | -21.22              | 15.03                 | 9.64                 | 0.11                | Average |
| 8  | 1.184       | 32.81         | 56.00                 | -23.19              | 23.06                 | 9.64                 | 0.11                | QP      |
| 9  | 4.549       | 23.00         | 46.00                 | -23.00              | 13.03                 | 9.67                 | 0.30                | Average |
| 10 | 4.549       | 31.09         | 56.00                 | -24.91              | 21.12                 | 9.67                 | 0.30                | QP      |
| 11 | 15.617      | 34.24         | 50.00                 | -15.76              | 23.90                 | 9.77                 | 0.57                | Average |
| 12 | 15.617      | 36.23         | 60.00                 | -23.77              | 25.89                 | 9.77                 | 0.57                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



## 3.2 6dB and Occupied Bandwidth

### 3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

### 3.2.2 Test Procedures

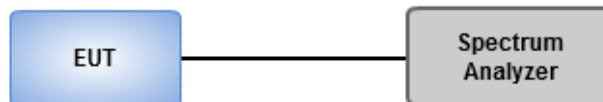
#### 6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

#### Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

### 3.2.3 Test Setup



### 3.2.4 Test Result of 6dB and Occupied Bandwidth

#### Configuration 1: Wi-Fi point-to-point

##### 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            | -                | -               | -        | -                | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 2.572M           | 3.509M          | 3M51G1D  | 2.572M           | 3.509M          |
| 11b-8M_Nss1,(1Mbps)_2TX  | 4.058M           | 5.557M          | 5M56G1D  | 4.058M           | 5.557M          |
| 11b-10M_Nss1,(1Mbps)_2TX | 5.072M           | 7.019M          | 7M02G1D  | 5.036M           | 6.983M          |
| 11b-20M_Nss1,(1Mbps)_2TX | 10.072M          | 14.11M          | 14M1G1D  | 10M              | 13.965M         |
| 11g-5M_Nss1,(6Mbps)_2TX  | 4.13M            | 4.161M          | 4M16D1D  | 4.112M           | 4.143M          |
| 11g-8M_Nss1,(6Mbps)_2TX  | 6.58M            | 6.599M          | 6M60D1D  | 6.522M           | 6.57M           |
| 11g-10M_Nss1,(6Mbps)_2TX | 8.225M           | 8.249M          | 8M25D1D  | 8.225M           | 8.249M          |
| 11g-20M_Nss1,(6Mbps)_2TX | 16.449M          | 16.787M         | 16M8D1D  | 16.377M          | 16.643M         |
| HT-5M_Nss1,(MCS0)_2TX    | 4.475M           | 4.45M           | 4M45D1D  | 4.42M            | 4.45M           |
| HT-8M_Nss1,(MCS0)_2TX    | 7.043M           | 7.062M          | 7M06D1D  | 7.014M           | 7.033M          |
| HT-10M_Nss1,(MCS0)_2TX   | 8.841M           | 8.828M          | 8M83D1D  | 8.804M           | 8.828M          |
| HT-20M_Nss1,(MCS0)_2TX   | 17.609M          | 17.945M         | 17M9D1D  | 17.609M          | 17.8M           |
| HT-30M_Nss1,(MCS0)_2TX   | 26.522M          | 26.809M         | 26M8D1D  | 26.304M          | 26.7M           |
| HT-40M_Nss1,(MCS0)_2TX   | 36.522M          | 37.482M         | 37M5D1D  | 36.377M          | 36.903M         |

**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<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) |
|--------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 2.572M                 | 3.509M                | 2.572M                 | 3.509M                |
| 2437MHz                  | Pass   | 500k          | 2.572M                 | 3.509M                | 2.572M                 | 3.509M                |
| 2462MHz                  | Pass   | 500k          | 2.572M                 | 3.509M                | 2.572M                 | 3.509M                |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 4.058M                 | 5.557M                | 4.058M                 | 5.557M                |
| 2437MHz                  | Pass   | 500k          | 4.058M                 | 5.557M                | 4.058M                 | 5.557M                |
| 2462MHz                  | Pass   | 500k          | 4.058M                 | 5.557M                | 4.058M                 | 5.557M                |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 5.072M                 | 7.019M                | 5.072M                 | 7.019M                |
| 2437MHz                  | Pass   | 500k          | 5.036M                 | 6.983M                | 5.036M                 | 6.983M                |
| 2462MHz                  | Pass   | 500k          | 5.036M                 | 6.983M                | 5.036M                 | 6.983M                |

| Mode                     | Result | Limit<br>(Hz) | Port 1-N<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) |
|--------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|
| 11b-20M_Nss1,(1Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 10.072M                | 13.965M               | 10.072M                | 13.965M               |
| 2437MHz                  | Pass   | 500k          | 10M                    | 13.965M               | 10M                    | 13.965M               |
| 2462MHz                  | Pass   | 500k          | 10.072M                | 14.11M                | 10.072M                | 13.965M               |
| 11g-5M_Nss1,(6Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 4.112M                 | 4.143M                | 4.112M                 | 4.161M                |
| 2437MHz                  | Pass   | 500k          | 4.13M                  | 4.143M                | 4.13M                  | 4.143M                |
| 2462MHz                  | Pass   | 500k          | 4.112M                 | 4.143M                | 4.13M                  | 4.143M                |
| 11g-8M_Nss1,(6Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 6.522M                 | 6.599M                | 6.58M                  | 6.599M                |
| 2437MHz                  | Pass   | 500k          | 6.551M                 | 6.57M                 | 6.551M                 | 6.57M                 |
| 2462MHz                  | Pass   | 500k          | 6.551M                 | 6.57M                 | 6.551M                 | 6.57M                 |
| 11g-10M_Nss1,(6Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 8.225M                 | 8.249M                | 8.225M                 | 8.249M                |
| 2437MHz                  | Pass   | 500k          | 8.225M                 | 8.249M                | 8.225M                 | 8.249M                |
| 2462MHz                  | Pass   | 500k          | 8.225M                 | 8.249M                | 8.225M                 | 8.249M                |
| 11g-20M_Nss1,(6Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 16.377M                | 16.787M               | 16.377M                | 16.643M               |
| 2437MHz                  | Pass   | 500k          | 16.377M                | 16.787M               | 16.449M                | 16.787M               |
| 2462MHz                  | Pass   | 500k          | 16.377M                | 16.643M               | 16.377M                | 16.643M               |
| HT-5M_Nss1,(MCS0)_2TX    | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 4.457M                 | 4.45M                 | 4.438M                 | 4.45M                 |
| 2437MHz                  | Pass   | 500k          | 4.457M                 | 4.45M                 | 4.42M                  | 4.45M                 |
| 2462MHz                  | Pass   | 500k          | 4.475M                 | 4.45M                 | 4.457M                 | 4.45M                 |
| HT-8M_Nss1,(MCS0)_2TX    | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 7.014M                 | 7.062M                | 7.014M                 | 7.062M                |
| 2437MHz                  | Pass   | 500k          | 7.014M                 | 7.033M                | 7.043M                 | 7.062M                |
| 2462MHz                  | Pass   | 500k          | 7.043M                 | 7.033M                | 7.014M                 | 7.062M                |
| HT-10M_Nss1,(MCS0)_2TX   | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 8.804M                 | 8.828M                | 8.841M                 | 8.828M                |
| 2437MHz                  | Pass   | 500k          | 8.804M                 | 8.828M                | 8.804M                 | 8.828M                |
| 2462MHz                  | Pass   | 500k          | 8.804M                 | 8.828M                | 8.804M                 | 8.828M                |
| HT-20M_Nss1,(MCS0)_2TX   | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 17.609M                | 17.8M                 | 17.609M                | 17.8M                 |
| 2437MHz                  | Pass   | 500k          | 17.609M                | 17.945M               | 17.609M                | 17.945M               |

| Mode                   | Result | Limit<br>(Hz) | Port 1-N<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) |
|------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|
| 2462MHz                | Pass   | 500k          | 17.609M                | 17.873M               | 17.609M                | 17.8M                 |
| HT-30M_Nss1,(MCS0)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2417MHz                | Pass   | 500k          | 26.522M                | 26.809M               | 26.413M                | 26.809M               |
| 2437MHz                | Pass   | 500k          | 26.304M                | 26.809M               | 26.304M                | 26.809M               |
| 2457MHz                | Pass   | 500k          | 26.522M                | 26.809M               | 26.413M                | 26.7M                 |
| HT-40M_Nss1,(MCS0)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2422MHz                | Pass   | 500k          | 36.522M                | 37.192M               | 36.377M                | 36.903M               |
| 2437MHz                | Pass   | 500k          | 36.377M                | 37.482M               | 36.377M                | 37.048M               |
| 2452MHz                | Pass   | 500k          | 36.522M                | 37.192M               | 36.522M                | 36.903M               |

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

## Configuration 2: Wi-Fi point-to-multipoint 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            | -                | -               | -        | -                | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 2.572M           | 3.509M          | 3M51G1D  | 2.572M           | 3.509M          |
| 11b-8M_Nss1,(1Mbps)_2TX  | 4.058M           | 5.557M          | 5M56G1D  | 4.058M           | 5.557M          |
| 11b-10M_Nss1,(1Mbps)_2TX | 5.072M           | 7.019M          | 7M02G1D  | 5.036M           | 6.983M          |
| 11b-20M_Nss1,(1Mbps)_2TX | 10.072M          | 14.11M          | 14M1G1D  | 10M              | 13.965M         |
| 11g-5M_Nss1,(6Mbps)_2TX  | 4.13M            | 4.143M          | 4M14D1D  | 4.112M           | 4.124M          |
| 11g-8M_Nss1,(6Mbps)_2TX  | 6.551M           | 6.57M           | 6M57D1D  | 6.551M           | 6.541M          |
| 11g-10M_Nss1,(6Mbps)_2TX | 8.225M           | 8.213M          | 8M21D1D  | 8.225M           | 8.177M          |
| 11g-20M_Nss1,(6Mbps)_2TX | 16.377M          | 16.787M         | 16M8D1D  | 16.377M          | 16.643M         |
| HT-5M_Nss1,(MCS0)_2TX    | 4.457M           | 4.45M           | 4M45D1D  | 4.42M            | 4.414M          |
| HT-8M_Nss1,(MCS0)_2TX    | 7.043M           | 7.033M          | 7M03D1D  | 6.986M           | 7.004M          |
| HT-10M_Nss1,(MCS0)_2TX   | 8.841M           | 8.828M          | 8M83D1D  | 8.804M           | 8.828M          |
| HT-20M_Nss1,(MCS0)_2TX   | 17.609M          | 17.945M         | 17M9D1D  | 17.609M          | 17.8M           |
| HT-30M_Nss1,(MCS0)_2TX   | 26.522M          | 26.809M         | 26M8D1D  | 26.413M          | 26.7M           |
| HT-40M_Nss1,(MCS0)_2TX   | 36.522M          | 37.482M         | 37M5D1D  | 36.377M          | 36.903M         |

**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<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) |
|--------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 2.572M                 | 3.509M                | 2.572M                 | 3.509M                |
| 2437MHz                  | Pass   | 500k          | 2.572M                 | 3.509M                | 2.572M                 | 3.509M                |
| 2462MHz                  | Pass   | 500k          | 2.572M                 | 3.509M                | 2.572M                 | 3.509M                |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 4.058M                 | 5.557M                | 4.058M                 | 5.557M                |
| 2437MHz                  | Pass   | 500k          | 4.058M                 | 5.557M                | 4.058M                 | 5.557M                |
| 2462MHz                  | Pass   | 500k          | 4.058M                 | 5.557M                | 4.058M                 | 5.557M                |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 5.072M                 | 7.019M                | 5.072M                 | 7.019M                |
| 2437MHz                  | Pass   | 500k          | 5.036M                 | 6.983M                | 5.036M                 | 6.983M                |
| 2462MHz                  | Pass   | 500k          | 5.036M                 | 6.983M                | 5.036M                 | 6.983M                |
| 11b-20M_Nss1,(1Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |

| Mode                     | Result | Limit<br>(Hz) | Port 1-N<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) |
|--------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|
| 2412MHz                  | Pass   | 500k          | 10.072M                | 13.965M               | 10.072M                | 13.965M               |
| 2437MHz                  | Pass   | 500k          | 10M                    | 13.965M               | 10M                    | 13.965M               |
| 2462MHz                  | Pass   | 500k          | 10.072M                | 14.11M                | 10.072M                | 13.965M               |
| 11g-5M_Nss1,(6Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 4.112M                 | 4.124M                | 4.13M                  | 4.124M                |
| 2437MHz                  | Pass   | 500k          | 4.13M                  | 4.124M                | 4.112M                 | 4.143M                |
| 2462MHz                  | Pass   | 500k          | 4.112M                 | 4.124M                | 4.112M                 | 4.124M                |
| 11g-8M_Nss1,(6Mbps)_2TX  | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 6.551M                 | 6.541M                | 6.551M                 | 6.541M                |
| 2437MHz                  | Pass   | 500k          | 6.551M                 | 6.541M                | 6.551M                 | 6.541M                |
| 2462MHz                  | Pass   | 500k          | 6.551M                 | 6.57M                 | 6.551M                 | 6.541M                |
| 11g-10M_Nss1,(6Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 8.225M                 | 8.213M                | 8.225M                 | 8.213M                |
| 2437MHz                  | Pass   | 500k          | 8.225M                 | 8.213M                | 8.225M                 | 8.213M                |
| 2462MHz                  | Pass   | 500k          | 8.225M                 | 8.177M                | 8.225M                 | 8.177M                |
| 11g-20M_Nss1,(6Mbps)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 16.377M                | 16.787M               | 16.377M                | 16.643M               |
| 2437MHz                  | Pass   | 500k          | 16.377M                | 16.787M               | 16.377M                | 16.643M               |
| 2462MHz                  | Pass   | 500k          | 16.377M                | 16.715M               | 16.377M                | 16.643M               |
| HT-5M_Nss1,(MCS0)_2TX    | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 4.438M                 | 4.45M                 | 4.42M                  | 4.45M                 |
| 2437MHz                  | Pass   | 500k          | 4.457M                 | 4.45M                 | 4.457M                 | 4.432M                |
| 2462MHz                  | Pass   | 500k          | 4.438M                 | 4.432M                | 4.438M                 | 4.414M                |
| HT-8M_Nss1,(MCS0)_2TX    | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 7.014M                 | 7.004M                | 6.986M                 | 7.033M                |
| 2437MHz                  | Pass   | 500k          | 7.043M                 | 7.004M                | 7.014M                 | 7.004M                |
| 2462MHz                  | Pass   | 500k          | 7.043M                 | 7.033M                | 7.014M                 | 7.004M                |
| HT-10M_Nss1,(MCS0)_2TX   | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 8.804M                 | 8.828M                | 8.804M                 | 8.828M                |
| 2437MHz                  | Pass   | 500k          | 8.804M                 | 8.828M                | 8.804M                 | 8.828M                |
| 2462MHz                  | Pass   | 500k          | 8.841M                 | 8.828M                | 8.804M                 | 8.828M                |
| HT-20M_Nss1,(MCS0)_2TX   | -      | -             | -                      | -                     | -                      | -                     |
| 2412MHz                  | Pass   | 500k          | 17.609M                | 17.8M                 | 17.609M                | 17.8M                 |
| 2437MHz                  | Pass   | 500k          | 17.609M                | 17.8M                 | 17.609M                | 17.945M               |
| 2462MHz                  | Pass   | 500k          | 17.609M                | 17.873M               | 17.609M                | 17.8M                 |

| Mode                   | Result | Limit<br>(Hz) | Port 1-N<br>dB<br>(Hz) | Port<br>1-OBW<br>(Hz) | Port 2-N<br>dB<br>(Hz) | Port<br>2-OBW<br>(Hz) |
|------------------------|--------|---------------|------------------------|-----------------------|------------------------|-----------------------|
| HT-30M_Nss1,(MCS0)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2417MHz                | Pass   | 500k          | 26.522M                | 26.809M               | 26.413M                | 26.809M               |
| 2437MHz                | Pass   | 500k          | 26.413M                | 26.809M               | 26.413M                | 26.7M                 |
| 2457MHz                | Pass   | 500k          | 26.522M                | 26.809M               | 26.413M                | 26.7M                 |
| HT-40M_Nss1,(MCS0)_2TX | -      | -             | -                      | -                     | -                      | -                     |
| 2422MHz                | Pass   | 500k          | 36.522M                | 37.192M               | 36.377M                | 36.903M               |
| 2437MHz                | Pass   | 500k          | 36.377M                | 37.482M               | 36.377M                | 37.048M               |
| 2452MHz                | Pass   | 500k          | 36.522M                | 37.192M               | 36.522M                | 36.903M               |

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

### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

Antenna gain  $\leq 6\text{dBi}$ , no any corresponding reduction is in output power limit.

Antenna gain  $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

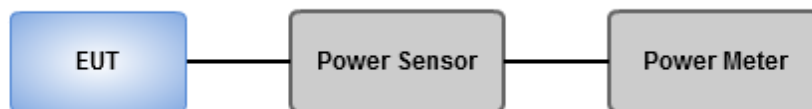
Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

#### 3.3.3 Test Setup





### 3.3.4 Test Result of Maximum Output Power

#### Configuration 1: Wi-Fi point-to-point

##### Summary of Peak Conducted Output Power

| Mode                     | Total Power (dBm) | Total Power (W) |
|--------------------------|-------------------|-----------------|
| 2.4-2.4835GHz            | -                 | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 25.70             | 0.37154         |
| 11b-8M_Nss1,(1Mbps)_2TX  | 26.08             | 0.40551         |
| 11b-10M_Nss1,(1Mbps)_2TX | 26.11             | 0.40832         |
| 11b-20M_Nss1,(1Mbps)_2TX | 26.10             | 0.40738         |
| 11g-5M_Nss1,(6Mbps)_2TX  | 29.25             | 0.84140         |
| 11g-8M_Nss1,(6Mbps)_2TX  | 29.22             | 0.83560         |
| 11g-10M_Nss1,(6Mbps)_2TX | 29.21             | 0.83368         |
| 11g-20M_Nss1,(6Mbps)_2TX | 29.08             | 0.80910         |
| HT-5M_Nss1,(MCS0)_2TX    | <b>29.26</b>      | 0.84333         |
| HT-8M_Nss1,(MCS0)_2TX    | 29.22             | 0.83560         |
| HT-10M_Nss1,(MCS0)_2TX   | 29.21             | 0.83368         |
| HT-20M_Nss1,(MCS0)_2TX   | 29.14             | 0.82035         |
| HT-30M_Nss1,(MCS0)_2TX   | 29.08             | 0.80910         |
| HT-40M_Nss1,(MCS0)_2TX   | 23.97             | 0.24946         |

#### Result

| Mode                     | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|--------------------------|--------|----------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 22.71        | 22.41        | 25.57             | 29.33             | 33.57      | Inf              |
| 2437MHz                  | Pass   | 8.00     | 22.72        | 22.65        | 25.70             | 29.33             | 33.70      | Inf              |
| 2462MHz                  | Pass   | 8.00     | 22.26        | 21.82        | 25.06             | 29.33             | 33.06      | Inf              |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 22.91        | 22.68        | 25.81             | 29.33             | 33.81      | Inf              |
| 2437MHz                  | Pass   | 8.00     | 23.09        | 22.94        | 26.03             | 29.33             | 34.03      | Inf              |
| 2462MHz                  | Pass   | 8.00     | 23.14        | 22.99        | 26.08             | 29.33             | 34.08      | Inf              |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 22.96        | 22.71        | 25.85             | 29.33             | 33.85      | Inf              |
| 2437MHz                  | Pass   | 8.00     | 22.78        | 22.7         | 25.75             | 29.33             | 33.75      | Inf              |

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|------------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 2462MHz                      | Pass   | 8.00        | 23.15           | 23.04           | 26.11                   | 29.33                   | 34.11         | Inf                    |
| 11b-20M_Nss1,(1Mbps)_2<br>TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 21.86           | 21.55           | 24.72                   | 29.33                   | 32.72         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 22.42           | 22.21           | 25.33                   | 29.33                   | 33.33         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 23.15           | 23.02           | 26.10                   | 29.33                   | 34.10         | Inf                    |
| 11g-5M_Nss1,(6Mbps)_2T<br>X  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 26.34           | 26.11           | 29.24                   | 29.33                   | 37.24         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 26.38           | 26.05           | 29.23                   | 29.33                   | 37.23         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 26.41           | 26.06           | 29.25                   | 29.33                   | 37.25         | Inf                    |
| 11g-8M_Nss1,(6Mbps)_2T<br>X  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 26.33           | 25.92           | 29.14                   | 29.33                   | 37.14         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 26.34           | 26.01           | 29.19                   | 29.33                   | 37.19         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 26.39           | 26.02           | 29.22                   | 29.33                   | 37.22         | Inf                    |
| 11g-10M_Nss1,(6Mbps)_2<br>TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 26.35           | 25.86           | 29.12                   | 29.33                   | 37.12         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 26.28           | 25.95           | 29.13                   | 29.33                   | 37.13         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 26.41           | 25.98           | 29.21                   | 29.33                   | 37.21         | Inf                    |
| 11g-20M_Nss1,(6Mbps)_2<br>TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 23.98           | 24.21           | 27.11                   | 29.33                   | 35.11         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 26.22           | 25.91           | 29.08                   | 29.33                   | 37.08         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 25.45           | 24.96           | 28.22                   | 29.33                   | 36.22         | Inf                    |
| HT-5M_Nss1,(MCS0)_2TX        | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 26.56           | 25.91           | <b>29.26</b>            | 29.33                   | 37.26         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 26.45           | 26.01           | 29.25                   | 29.33                   | 37.25         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 26.43           | 26.02           | 29.24                   | 29.33                   | 37.24         | Inf                    |
| HT-8M_Nss1,(MCS0)_2TX        | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 26.49           | 25.86           | 29.20                   | 29.33                   | 37.20         | Inf                    |
| 2437MHz                      | Pass   | 8.00        | 26.48           | 25.93           | 29.22                   | 29.33                   | 37.22         | Inf                    |
| 2462MHz                      | Pass   | 8.00        | 26.42           | 25.98           | 29.22                   | 29.33                   | 37.22         | Inf                    |
| HT-10M_Nss1,(MCS0)_2T<br>X   | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 26.32           | 25.61           | 28.99                   | 29.33                   | 36.99         | Inf                    |

| Mode                       | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|----------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 2437MHz                    | Pass   | 8.00        | 26.34           | 25.96           | 29.16                   | 29.33                   | 37.16         | Inf                    |
| 2462MHz                    | Pass   | 8.00        | 26.44           | 25.94           | 29.21                   | 29.33                   | 37.21         | Inf                    |
| HT-20M_Nss1,(MCS0)_2T<br>X | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                    | Pass   | 8.00        | 23.49           | 22.95           | 26.24                   | 29.33                   | 34.24         | Inf                    |
| 2437MHz                    | Pass   | 8.00        | 26.34           | 25.9            | 29.14                   | 29.33                   | 37.14         | Inf                    |
| 2462MHz                    | Pass   | 8.00        | 25.28           | 24.45           | 27.90                   | 29.33                   | 35.90         | Inf                    |
| HT-30M_Nss1,(MCS0)_2T<br>X | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2417MHz                    | Pass   | 8.00        | 20.31           | 19.76           | 23.05                   | 29.33                   | 31.05         | Inf                    |
| 2437MHz                    | Pass   | 8.00        | 26.27           | 25.86           | 29.08                   | 29.33                   | 37.08         | Inf                    |
| 2457MHz                    | Pass   | 8.00        | 21.12           | 20.53           | 23.85                   | 29.33                   | 31.85         | Inf                    |
| HT-40M_Nss1,(MCS0)_2T<br>X | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2422MHz                    | Pass   | 8.00        | 18.22           | 17.75           | 21.00                   | 29.33                   | 29.00         | Inf                    |
| 2437MHz                    | Pass   | 8.00        | 21.03           | 20.89           | 23.97                   | 29.33                   | 31.97         | Inf                    |
| 2452MHz                    | Pass   | 8.00        | 20.25           | 19.32           | 22.82                   | 29.33                   | 30.82         | Inf                    |

**DG** = Directional Gain =8 dBi > 6dBi

Power limit shall be reduced to 30 dBm – ( 8 dBi – 6 dBi )/3 = 29.33 dBm

**Port X** = Port X output power

### Summary of Conducted (Average) Output Power

| Mode                     | Total Power (dBm) | Total Power (W) |
|--------------------------|-------------------|-----------------|
| 2.4-2.4835GHz            | -                 | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 23.60             | 0.22909         |
| 11b-8M_Nss1,(1Mbps)_2TX  | 23.79             | 0.23933         |
| 11b-10M_Nss1,(1Mbps)_2TX | 23.81             | 0.24044         |
| 11b-20M_Nss1,(1Mbps)_2TX | 23.78             | 0.23878         |
| 11g-5M_Nss1,(6Mbps)_2TX  | 21.95             | 0.15668         |
| 11g-8M_Nss1,(6Mbps)_2TX  | 21.94             | 0.15631         |
| 11g-10M_Nss1,(6Mbps)_2TX | 21.92             | 0.15560         |
| 11g-20M_Nss1,(6Mbps)_2TX | 21.84             | 0.15276         |
| HT-5M_Nss1,(MCS0)_2TX    | 21.92             | 0.15560         |
| HT-8M_Nss1,(MCS0)_2TX    | 21.85             | 0.15311         |
| HT-10M_Nss1,(MCS0)_2TX   | 21.93             | 0.15596         |
| HT-20M_Nss1,(MCS0)_2TX   | 21.71             | 0.14825         |
| HT-30M_Nss1,(MCS0)_2TX   | 21.82             | 0.15205         |
| HT-40M_Nss1,(MCS0)_2TX   | 15.69             | 0.03707         |

### Result

| Mode                     | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|--------------------------|--------|----------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 20.56        | 20.3         | 23.44             | -                 | 31.44      | Inf              |
| 2437MHz                  | Pass   | 8.00     | 20.65        | 20.53        | 23.60             | -                 | 31.60      | Inf              |
| 2462MHz                  | Pass   | 8.00     | 19.95        | 19.66        | 22.82             | -                 | 30.82      | Inf              |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 20.62        | 20.25        | 23.45             | -                 | 31.45      | Inf              |
| 2437MHz                  | Pass   | 8.00     | 20.83        | 20.72        | 23.79             | -                 | 31.79      | Inf              |
| 2462MHz                  | Pass   | 8.00     | 20.86        | 20.68        | 23.78             | -                 | 31.78      | Inf              |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 20.55        | 20.41        | 23.49             | -                 | 31.49      | Inf              |
| 2437MHz                  | Pass   | 8.00     | 20.51        | 20.4         | 23.47             | -                 | 31.47      | Inf              |
| 2462MHz                  | Pass   | 8.00     | 20.88        | 20.71        | 23.81             | -                 | 31.81      | Inf              |
| 11b-20M_Nss1,(1Mbps)_2TX | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 19.55        | 19.28        | 22.43             | -                 | 30.43      | Inf              |

| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|--------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 2437MHz                  | Pass   | 8.00        | 20.31           | 20.01           | 23.17                   | -                       | 31.17         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 20.88           | 20.65           | 23.78                   | -                       | 31.78         | Inf                    |
| 11g-5M_Nss1,(6Mbps)_2TX  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 18.82           | 18.86           | 21.85                   | -                       | 29.85         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.79           | 18.56           | 21.69                   | -                       | 29.69         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 18.86           | 19.02           | 21.95                   | -                       | 29.95         | Inf                    |
| 11g-8M_Nss1,(6Mbps)_2TX  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 18.83           | 18.46           | 21.66                   | -                       | 29.66         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.55           | 18.39           | 21.48                   | -                       | 29.48         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 18.84           | 19.01           | 21.94                   | -                       | 29.94         | Inf                    |
| 11g-10M_Nss1,(6Mbps)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 18.91           | 18.38           | 21.66                   | -                       | 29.66         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.72           | 18.49           | 21.62                   | -                       | 29.62         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 18.96           | 18.85           | 21.92                   | -                       | 29.92         | Inf                    |
| 11g-20M_Nss1,(6Mbps)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 14.82           | 14.91           | 17.88                   | -                       | 25.88         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.93           | 18.73           | 21.84                   | -                       | 29.84         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 16.17           | 15.76           | 18.98                   | -                       | 26.98         | Inf                    |
| HT-5M_Nss1,(MCS0)_2TX    | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 19.09           | 18.54           | 21.83                   | -                       | 29.83         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.78           | 18.63           | 21.72                   | -                       | 29.72         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 18.98           | 18.83           | 21.92                   | -                       | 29.92         | Inf                    |
| HT-8M_Nss1,(MCS0)_2TX    | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 18.93           | 18.53           | 21.74                   | -                       | 29.74         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.65           | 18.49           | 21.58                   | -                       | 29.58         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 18.9            | 18.78           | 21.85                   | -                       | 29.85         | Inf                    |
| HT-10M_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 18.88           | 18.29           | 21.61                   | -                       | 29.61         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.7            | 18.56           | 21.64                   | -                       | 29.64         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 19.02           | 18.81           | 21.93                   | -                       | 29.93         | Inf                    |
| HT-20M_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 14.88           | 14.6            | 17.75                   | -                       | 25.75         | Inf                    |
| 2437MHz                  | Pass   | 8.00        | 18.81           | 18.59           | 21.71                   | -                       | 29.71         | Inf                    |
| 2462MHz                  | Pass   | 8.00        | 16.25           | 15.77           | 19.03                   | -                       | 27.03         | Inf                    |

| Mode                   | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| HT-30M_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2417MHz                | Pass   | 8.00        | 11.69           | 11.25           | 14.49                   | -                       | 22.49         | Inf                    |
| 2437MHz                | Pass   | 8.00        | 18.91           | 18.71           | 21.82                   | -                       | 29.82         | Inf                    |
| 2457MHz                | Pass   | 8.00        | 12.82           | 12.22           | 15.54                   | -                       | 23.54         | Inf                    |
| HT-40M_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2422MHz                | Pass   | 8.00        | 9.56            | 9.12            | 12.36                   | -                       | 20.36         | Inf                    |
| 2437MHz                | Pass   | 8.00        | 12.71           | 12.65           | 15.69                   | -                       | 23.69         | Inf                    |
| 2452MHz                | Pass   | 8.00        | 11.56           | 10.77           | 14.19                   | -                       | 22.19         | Inf                    |

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

**Note : Conducted average output power is for reference only**

## Configuration 2: Wi-Fi point-to-multipoint

### Summary of Peak Conducted Output Power

| Mode                     | Total Power (dBm) | Total Power (W) |
|--------------------------|-------------------|-----------------|
| 2.4-2.4835GHz            | -                 | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 25.70             | 0.37154         |
| 11b-8M_Nss1,(1Mbps)_2TX  | 26.08             | 0.40551         |
| 11b-10M_Nss1,(1Mbps)_2TX | 26.11             | 0.40832         |
| 11b-20M_Nss1,(1Mbps)_2TX | 26.10             | 0.40738         |
| 11g-5M_Nss1,(6Mbps)_2TX  | 27.79             | 0.60117         |
| 11g-8M_Nss1,(6Mbps)_2TX  | 27.69             | 0.58749         |
| 11g-10M_Nss1,(6Mbps)_2TX | 27.93             | 0.62087         |
| 11g-20M_Nss1,(6Mbps)_2TX | 27.86             | 0.61094         |
| HT-5M_Nss1,(MCS0)_2TX    | 27.63             | 0.57943         |
| HT-8M_Nss1,(MCS0)_2TX    | 27.82             | 0.60534         |
| HT-10M_Nss1,(MCS0)_2TX   | <b>27.96</b>      | 0.62517         |
| HT-20M_Nss1,(MCS0)_2TX   | 27.90             | 0.61660         |
| HT-30M_Nss1,(MCS0)_2TX   | 27.70             | 0.58884         |
| HT-40M_Nss1,(MCS0)_2TX   | 23.97             | 0.24946         |

### Result

| Mode                     | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|--------------------------|--------|----------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 22.71        | 22.41        | 25.57             | 28.00             | 33.57      | 36.00            |
| 2437MHz                  | Pass   | 8.00     | 22.72        | 22.65        | 25.70             | 28.00             | 33.70      | 36.00            |
| 2462MHz                  | Pass   | 8.00     | 22.26        | 21.82        | 25.06             | 28.00             | 33.06      | 36.00            |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 22.91        | 22.68        | 25.81             | 28.00             | 33.81      | 36.00            |
| 2437MHz                  | Pass   | 8.00     | 23.09        | 22.94        | 26.03             | 28.00             | 34.03      | 36.00            |
| 2462MHz                  | Pass   | 8.00     | 23.14        | 22.99        | 26.08             | 28.00             | 34.08      | 36.00            |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 22.96        | 22.71        | 25.85             | 28.00             | 33.85      | 36.00            |
| 2437MHz                  | Pass   | 8.00     | 22.78        | 22.7         | 25.75             | 28.00             | 33.75      | 36.00            |
| 2462MHz                  | Pass   | 8.00     | 23.15        | 23.04        | 26.11             | 28.00             | 34.11      | 36.00            |

| Mode                         | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|------------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 11b-20M_Nss1,(1Mbps)_2<br>TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 21.86           | 21.55           | 24.72                   | 28.00                   | 32.72         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 22.42           | 22.21           | 25.33                   | 28.00                   | 33.33         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 23.15           | 23.02           | 26.10                   | 28.00                   | 34.10         | 36.00                  |
| 11g-5M_Nss1,(6Mbps)_2T<br>X  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 25.01           | 24.46           | 27.75                   | 28.00                   | 35.75         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 24.95           | 24.61           | 27.79                   | 28.00                   | 35.79         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 24.88           | 24.34           | 27.63                   | 28.00                   | 35.63         | 36.00                  |
| 11g-8M_Nss1,(6Mbps)_2T<br>X  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 24.94           | 24.41           | 27.69                   | 28.00                   | 35.69         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 24.75           | 24.45           | 27.61                   | 28.00                   | 35.61         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 25.12           | 24.16           | 27.68                   | 28.00                   | 35.68         | 36.00                  |
| 11g-10M_Nss1,(6Mbps)_2<br>TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 25.01           | 24.36           | 27.71                   | 28.00                   | 35.71         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 25.06           | 24.78           | 27.93                   | 28.00                   | 35.93         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 25.14           | 24.29           | 27.75                   | 28.00                   | 35.75         | 36.00                  |
| 11g-20M_Nss1,(6Mbps)_2<br>TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 23.98           | 24.21           | 27.11                   | 28.00                   | 35.11         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 24.95           | 24.75           | 27.86                   | 28.00                   | 35.86         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 24.21           | 24.04           | 27.14                   | 28.00                   | 35.14         | 36.00                  |
| HT-5M_Nss1,(MCS0)_2TX        | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 24.81           | 24.38           | 27.61                   | 28.00                   | 35.61         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 24.82           | 24.41           | 27.63                   | 28.00                   | 35.63         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 24.86           | 24.31           | 27.60                   | 28.00                   | 35.60         | 36.00                  |
| HT-8M_Nss1,(MCS0)_2TX        | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 24.83           | 24.52           | 27.69                   | 28.00                   | 35.69         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 24.72           | 24.40           | 27.57                   | 28.00                   | 35.57         | 36.00                  |
| 2462MHz                      | Pass   | 8.00        | 24.95           | 24.67           | 27.82                   | 28.00                   | 35.82         | 36.00                  |
| HT-10M_Nss1,(MCS0)_2T<br>X   | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                      | Pass   | 8.00        | 25.08           | 24.82           | <b>27.96</b>            | 28.00                   | 35.96         | 36.00                  |
| 2437MHz                      | Pass   | 8.00        | 25.02           | 24.66           | 27.85                   | 28.00                   | 35.85         | 36.00                  |



| Mode                       | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|----------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 2462MHz                    | Pass   | 8.00        | 25.04           | 24.81           | 27.94                   | 28.00                   | 35.94         | 36.00                  |
| HT-20M_Nss1,(MCS0)_2T<br>X | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                    | Pass   | 8.00        | 23.49           | 22.95           | 26.24                   | 28.00                   | 34.24         | 36.00                  |
| 2437MHz                    | Pass   | 8.00        | 24.81           | 24.46           | 27.65                   | 28.00                   | 35.65         | 36.00                  |
| 2462MHz                    | Pass   | 8.00        | 25.28           | 24.45           | 27.90                   | 28.00                   | 35.90         | 36.00                  |
| HT-30M_Nss1,(MCS0)_2T<br>X | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2417MHz                    | Pass   | 8.00        | 20.31           | 19.76           | 23.05                   | 28.00                   | 31.05         | 36.00                  |
| 2437MHz                    | Pass   | 8.00        | 24.91           | 24.45           | 27.70                   | 28.00                   | 35.70         | 36.00                  |
| 2457MHz                    | Pass   | 8.00        | 21.12           | 20.53           | 23.85                   | 28.00                   | 31.85         | 36.00                  |
| HT-40M_Nss1,(MCS0)_2T<br>X | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2422MHz                    | Pass   | 8.00        | 18.22           | 17.75           | 21.00                   | 28.00                   | 29.00         | 36.00                  |
| 2437MHz                    | Pass   | 8.00        | 21.03           | 20.89           | 23.97                   | 28.00                   | 31.97         | 36.00                  |
| 2452MHz                    | Pass   | 8.00        | 20.25           | 19.32           | 22.82                   | 28.00                   | 30.82         | 36.00                  |

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

**DG** = Directional Gain = 8 dBi > 6dBi

Power limit shall be reduced to 30 dBm – ( 8 dBi – 6 dBi ) = 28 dBm

### Summary of Conducted (Average) Output Power

| Mode                     | Total Power (dBm) | Total Power (W) |
|--------------------------|-------------------|-----------------|
| 2.4-2.4835GHz            | -                 | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 23.60             | 0.22909         |
| 11b-8M_Nss1,(1Mbps)_2TX  | 23.79             | 0.23933         |
| 11b-10M_Nss1,(1Mbps)_2TX | 23.81             | 0.24044         |
| 11b-20M_Nss1,(1Mbps)_2TX | 23.78             | 0.23878         |
| 11g-5M_Nss1,(6Mbps)_2TX  | 18.95             | 0.07852         |
| 11g-8M_Nss1,(6Mbps)_2TX  | 18.76             | 0.07516         |
| 11g-10M_Nss1,(6Mbps)_2TX | 19.59             | 0.09099         |
| 11g-20M_Nss1,(6Mbps)_2TX | 19.79             | 0.09528         |
| HT-5M_Nss1,(MCS0)_2TX    | 18.82             | 0.07621         |
| HT-8M_Nss1,(MCS0)_2TX    | 18.95             | 0.07852         |
| HT-10M_Nss1,(MCS0)_2TX   | 19.89             | 0.09750         |
| HT-20M_Nss1,(MCS0)_2TX   | 19.85             | 0.09661         |
| HT-30M_Nss1,(MCS0)_2TX   | 19.64             | 0.09204         |
| HT-40M_Nss1,(MCS0)_2TX   | 15.69             | 0.03707         |

### Result

| Mode                     | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|--------------------------|--------|----------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 20.56        | 20.3         | 23.44             | -                 | 31.44      | -                |
| 2437MHz                  | Pass   | 8.00     | 20.65        | 20.53        | 23.60             | -                 | 31.60      | -                |
| 2462MHz                  | Pass   | 8.00     | 19.95        | 19.66        | 22.82             | -                 | 30.82      | -                |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 20.62        | 20.25        | 23.45             | -                 | 31.45      | -                |
| 2437MHz                  | Pass   | 8.00     | 20.83        | 20.72        | 23.79             | -                 | 31.79      | -                |
| 2462MHz                  | Pass   | 8.00     | 20.86        | 20.68        | 23.78             | -                 | 31.78      | -                |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 20.55        | 20.41        | 23.49             | -                 | 31.49      | -                |
| 2437MHz                  | Pass   | 8.00     | 20.51        | 20.4         | 23.47             | -                 | 31.47      | -                |
| 2462MHz                  | Pass   | 8.00     | 20.88        | 20.71        | 23.81             | -                 | 31.81      | -                |
| 11b-20M_Nss1,(1Mbps)_2TX | -      | -        | -            | -            | -                 | -                 | -          | -                |
| 2412MHz                  | Pass   | 8.00     | 19.55        | 19.28        | 22.43             | -                 | 30.43      | -                |

| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|--------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 2437MHz                  | Pass   | 8.00        | 20.31           | 20.01           | 23.17                   | -                       | 31.17         | -                      |
| 2462MHz                  | Pass   | 8.00        | 20.88           | 20.65           | 23.78                   | -                       | 31.78         | -                      |
| 11g-5M_Nss1,(6Mbps)_2TX  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 16.04           | 15.64           | 18.85                   | -                       | 26.85         | -                      |
| 2437MHz                  | Pass   | 8.00        | 16.06           | 15.82           | 18.95                   | -                       | 26.95         | -                      |
| 2462MHz                  | Pass   | 8.00        | 15.98           | 15.52           | 18.77                   | -                       | 26.77         | -                      |
| 11g-8M_Nss1,(6Mbps)_2TX  | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 15.89           | 15.61           | 18.76                   | -                       | 26.76         | -                      |
| 2437MHz                  | Pass   | 8.00        | 15.82           | 15.65           | 18.75                   | -                       | 26.75         | -                      |
| 2462MHz                  | Pass   | 8.00        | 15.94           | 15.32           | 18.65                   | -                       | 26.65         | -                      |
| 11g-10M_Nss1,(6Mbps)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 15.86           | 15.64           | 18.76                   | -                       | 26.76         | -                      |
| 2437MHz                  | Pass   | 8.00        | 16.65           | 16.50           | 19.59                   | -                       | 27.59         | -                      |
| 2462MHz                  | Pass   | 8.00        | 15.98           | 15.62           | 18.81                   | -                       | 26.81         | -                      |
| 11g-20M_Nss1,(6Mbps)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 14.82           | 14.91           | 17.88                   | -                       | 25.88         | -                      |
| 2437MHz                  | Pass   | 8.00        | 16.81           | 16.74           | 19.79                   | -                       | 27.79         | -                      |
| 2462MHz                  | Pass   | 8.00        | 15.25           | 14.94           | 18.11                   | -                       | 26.11         | -                      |
| HT-5M_Nss1,(MCS0)_2TX    | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 15.96           | 15.65           | 18.82                   | -                       | 26.82         | -                      |
| 2437MHz                  | Pass   | 8.00        | 15.94           | 15.68           | 18.82                   | -                       | 26.82         | -                      |
| 2462MHz                  | Pass   | 8.00        | 15.91           | 15.54           | 18.74                   | -                       | 26.74         | -                      |
| HT-8M_Nss1,(MCS0)_2TX    | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 15.95           | 15.71           | 18.84                   | -                       | 26.84         | -                      |
| 2437MHz                  | Pass   | 8.00        | 15.86           | 15.66           | 18.77                   | -                       | 26.77         | -                      |
| 2462MHz                  | Pass   | 8.00        | 16.01           | 15.86           | 18.95                   | -                       | 26.95         | -                      |
| HT-10M_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 16.95           | 16.81           | 19.89                   | -                       | 27.89         | -                      |
| 2437MHz                  | Pass   | 8.00        | 16.88           | 16.66           | 19.78                   | -                       | 27.78         | -                      |
| 2462MHz                  | Pass   | 8.00        | 16.92           | 16.74           | 19.84                   | -                       | 27.84         | -                      |
| HT-20M_Nss1,(MCS0)_2TX   | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2412MHz                  | Pass   | 8.00        | 14.88           | 14.6            | 17.75                   | -                       | 25.75         | -                      |
| 2437MHz                  | Pass   | 8.00        | 16.92           | 16.75           | 19.85                   | -                       | 27.85         | -                      |
| 2462MHz                  | Pass   | 8.00        | 16.25           | 15.77           | 19.03                   | -                       | 27.03         | -                      |

| Mode                   | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| HT-30M_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2417MHz                | Pass   | 8.00        | 11.69           | 11.25           | 14.49                   | -                       | 22.49         | -                      |
| 2437MHz                | Pass   | 8.00        | 16.75           | 16.50           | 19.64                   | -                       | 27.64         | -                      |
| 2457MHz                | Pass   | 8.00        | 12.82           | 12.22           | 15.54                   | -                       | 23.54         | -                      |
| HT-40M_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 2422MHz                | Pass   | 8.00        | 9.56            | 9.12            | 12.36                   | -                       | 20.36         | -                      |
| 2437MHz                | Pass   | 8.00        | 12.71           | 12.65           | 15.69                   | -                       | 23.69         | -                      |
| 2452MHz                | Pass   | 8.00        | 11.56           | 10.77           | 14.19                   | -                       | 22.19         | -                      |

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

**Note : Conducted average output power is for reference only**

## 3.4 Power Spectral Density

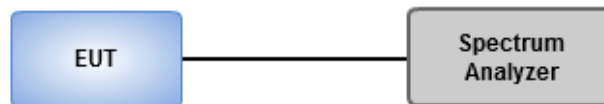
### 3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

### 3.4.2 Test Procedures

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

### 3.4.3 Test Setup



### 3.4.4 Test Result of Power Spectral Density

#### Configuration 1: Wi-Fi point-to-point

##### Summary

| Mode                     | PD<br>(dBm/RBW) |
|--------------------------|-----------------|
| 2.4-2.4835GHz            | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 3.24            |
| 11b-8M_Nss1,(1Mbps)_2TX  | 1.53            |
| 11b-10M_Nss1,(1Mbps)_2TX | 1.62            |
| 11b-20M_Nss1,(1Mbps)_2TX | -2.25           |
| 11g-5M_Nss1,(6Mbps)_2TX  | 0.31            |
| 11g-8M_Nss1,(6Mbps)_2TX  | -1.12           |
| 11g-10M_Nss1,(6Mbps)_2TX | -2.10           |
| 11g-20M_Nss1,(6Mbps)_2TX | -5.48           |
| HT-5M_Nss1,(MCS0)_2TX    | 0.23            |
| HT-8M_Nss1,(MCS0)_2TX    | -1.31           |
| HT-10M_Nss1,(MCS0)_2TX   | -0.99           |
| HT-20M_Nss1,(MCS0)_2TX   | -4.60           |
| HT-30M_Nss1,(MCS0)_2TX   | -7.15           |
| HT-40M_Nss1,(MCS0)_2TX   | -14.72          |

##### 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) |
|--------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | 1.58                | 0.21                | 3.24            | 8.00                  |
| 2437MHz                  | Pass   | 8.00        | 0.92                | 0.41                | 3.02            | 8.00                  |
| 2462MHz                  | Pass   | 8.00        | 0.33                | 0.11                | 2.39            | 8.00                  |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -0.65               | -0.87               | 1.15            | 8.00                  |
| 2437MHz                  | Pass   | 8.00        | -1.13               | -1.59               | 1.47            | 8.00                  |
| 2462MHz                  | Pass   | 8.00        | -0.61               | -0.22               | 1.53            | 8.00                  |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -1.81               | -1.05               | 0.76            | 8.00                  |
| 2437MHz                  | Pass   | 8.00        | -1.80               | -2.18               | 0.18            | 8.00                  |
| 2462MHz                  | Pass   | 8.00        | 0.21                | -1.79               | 1.62            | 8.00                  |
| 11b-20M_Nss1,(1Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |

| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 2412MHz                  | Pass   | 8.00        | -4.72               | -5.22               | -2.57           | 8.00                  |
| 2437MHz                  | Pass   | 8.00        | -4.35               | -4.75               | -2.39           | 8.00                  |
| 2462MHz                  | Pass   | 8.00        | -4.60               | -4.74               | -2.25           | 8.00                  |
| 11g-5M_Nss1,(6Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -2.77               | -2.91               | -0.30           | 8.00                  |
| 2437MHz                  | Pass   | 8.00        | -2.13               | -1.31               | 0.31            | 8.00                  |
| 2462MHz                  | Pass   | 8.00        | -2.34               | -1.33               | 0.25            | 8.00                  |
| 11g-8M_Nss1,(6Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -1.93               | -3.01               | -1.12           | 8.00                  |
| 2437MHz                  | Pass   | 8.00        | -4.10               | -3.92               | -1.94           | 8.00                  |
| 2462MHz                  | Pass   | 8.00        | -4.57               | -3.23               | -2.10           | 8.00                  |
| 11g-10M_Nss1,(6Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -4.32               | -3.59               | -2.10           | 7.33                  |
| 2437MHz                  | Pass   | 8.00        | -5.20               | -4.96               | -3.11           | 7.33                  |
| 2462MHz                  | Pass   | 8.00        | -4.83               | -4.90               | -2.84           | 7.33                  |
| 11g-20M_Nss1,(6Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -10.85              | -11.31              | -9.42           | 7.33                  |
| 2437MHz                  | Pass   | 8.00        | -7.72               | -7.11               | -5.48           | 7.33                  |
| 2462MHz                  | Pass   | 8.00        | -10.44              | -10.39              | -8.33           | 7.33                  |
| HT-5M_Nss1,(MCS0)_2TX    | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -2.22               | -1.60               | 0.23            | 7.33                  |
| 2437MHz                  | Pass   | 8.00        | -2.69               | -3.21               | -0.69           | 7.33                  |
| 2462MHz                  | Pass   | 8.00        | -2.73               | -1.80               | -0.27           | 7.33                  |
| HT-8M_Nss1,(MCS0)_2TX    | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -3.67               | -5.14               | -1.85           | 7.33                  |
| 2437MHz                  | Pass   | 8.00        | -3.63               | -5.08               | -1.31           | 7.33                  |
| 2462MHz                  | Pass   | 8.00        | -4.69               | -3.92               | -2.06           | 7.33                  |
| HT-10M_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -5.62               | -5.62               | -2.96           | 7.33                  |
| 2437MHz                  | Pass   | 8.00        | -5.46               | -4.84               | -3.51           | 7.33                  |
| 2462MHz                  | Pass   | 8.00        | -5.40               | -2.24               | -0.99           | 7.33                  |
| HT-20M_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -12.13              | -11.55              | -9.67           | 7.33                  |
| 2437MHz                  | Pass   | 8.00        | -7.73               | -7.25               | -4.60           | 7.33                  |
| 2462MHz                  | Pass   | 8.00        | -10.14              | -11.21              | -8.31           | 7.33                  |
| HT-30M_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     |

| Mode                   | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 2417MHz                | Pass   | 8.00        | -16.36              | -17.46              | -14.25          | 7.33                  |
| 2437MHz                | Pass   | 8.00        | -9.80               | -8.86               | -7.15           | 7.33                  |
| 2457MHz                | Pass   | 8.00        | -15.15              | -15.26              | -12.55          | 7.33                  |
| HT-40M_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2422MHz                | Pass   | 8.00        | -19.21              | -19.99              | -17.09          | 7.33                  |
| 2437MHz                | Pass   | 8.00        | -16.80              | -17.48              | -14.72          | 7.33                  |
| 2452MHz                | Pass   | 8.00        | -18.31              | -18.66              | -15.74          | 7.33                  |

**DG** = Directional Gain;

**DG** = Directional Gain =8 dBi > 6dBi

Power limit shall be reduced to 8 dBm – ( 8 dBi – 6 dBi )/3 = 7.33 dBm

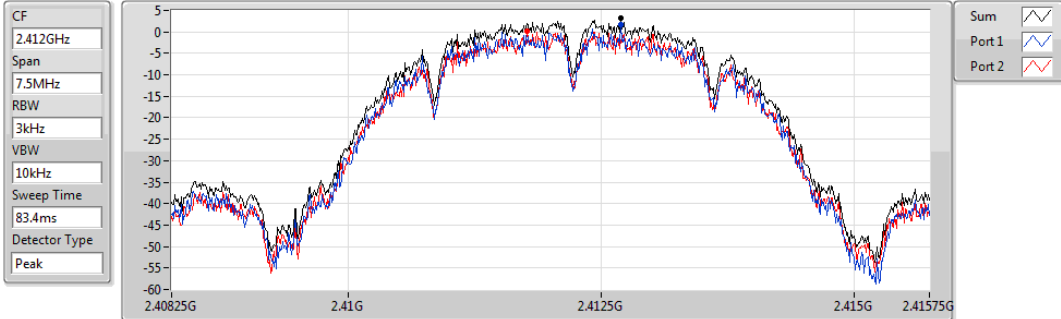
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;



### 11b-5M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

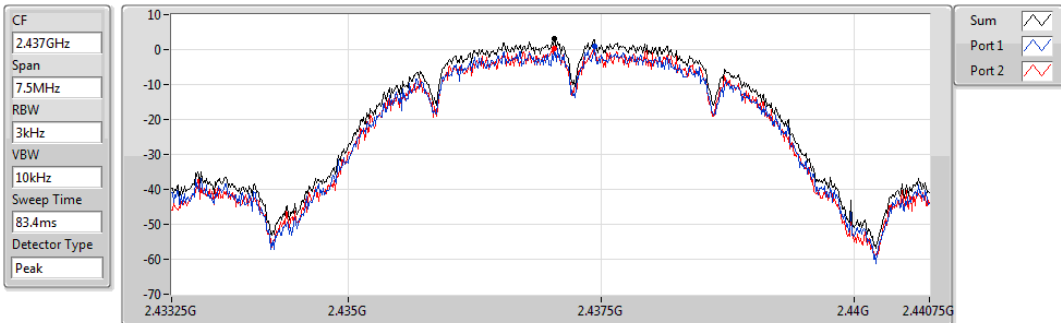


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 3.24      | 3.24      | 1.58      | 0.21      |

### 11b-5M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

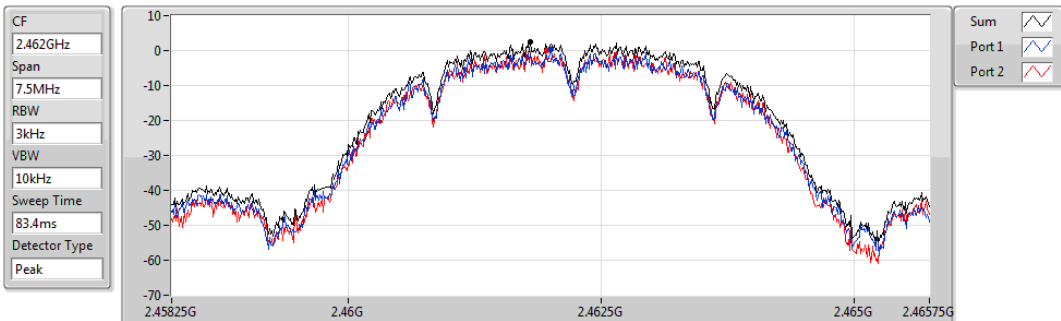


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 3.02      | 3.02      | 0.92      | 0.41      |

### 11b-5M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

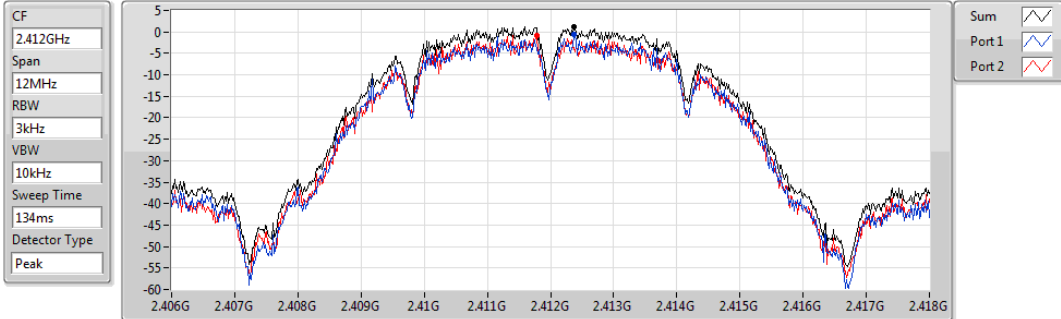


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.39      | 2.39      | 0.33      | 0.11      |

### 11b-8M\_Nss1,(1Mbps)\_2TX

PSD

#### 2412MHz

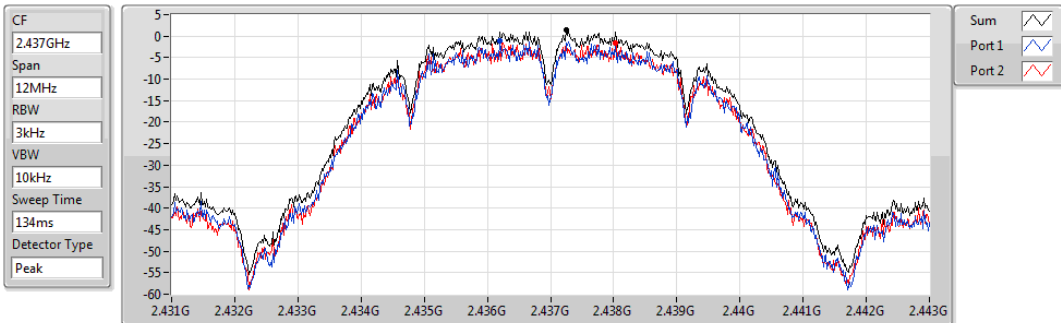


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) |
| 1.15        | 1.15        | -0.65       | -0.87       |

### 11b-8M\_Nss1,(1Mbps)\_2TX

PSD

#### 2437MHz

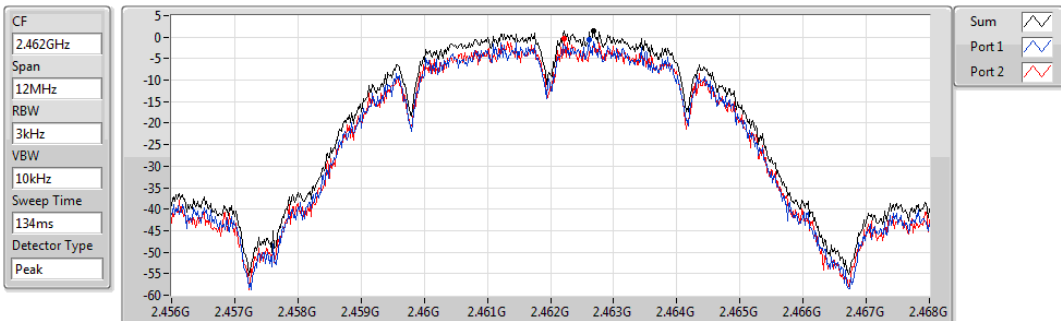


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) |
| 1.47        | 1.47        | -1.13       | -1.59       |

### 11b-8M\_Nss1,(1Mbps)\_2TX

PSD

#### 2462MHz

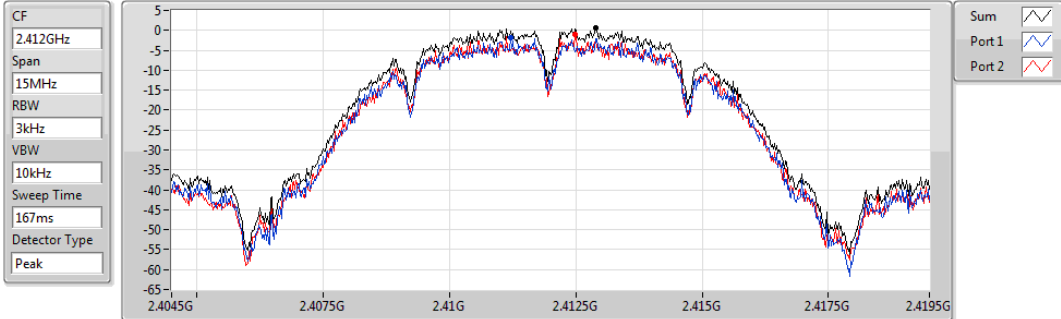


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) |
| 1.53        | 1.53        | -0.61       | -0.22       |

### 11b-10M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

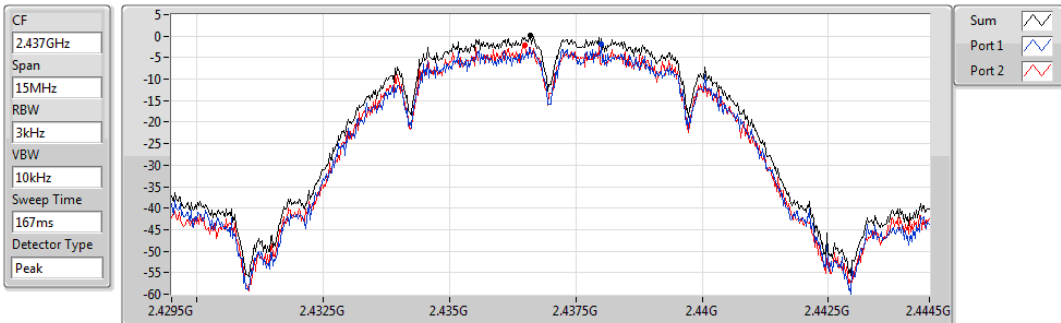


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.76      | 0.76      | -1.81     | -1.05     |

### 11b-10M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

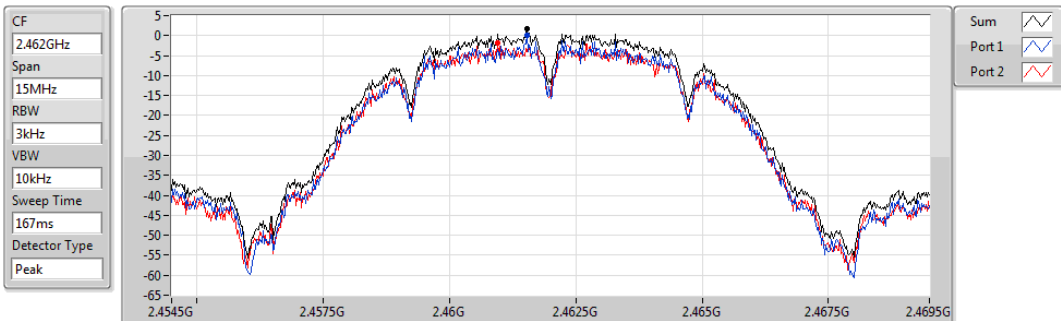


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.18      | 0.18      | -1.80     | -2.18     |

### 11b-10M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

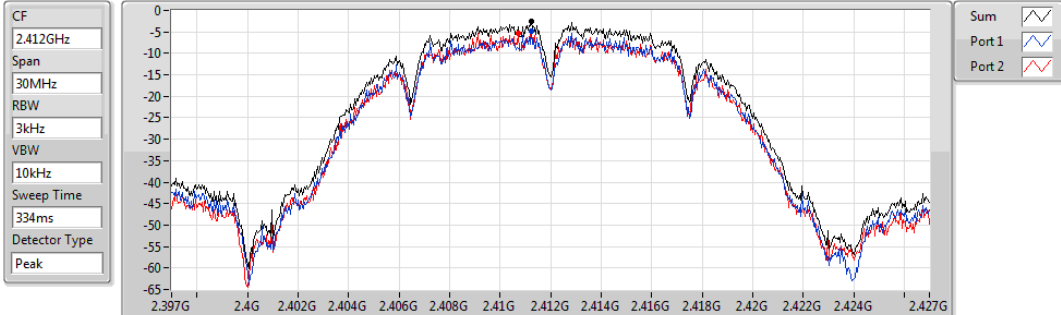


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.62      | 1.62      | 0.21      | -1.79     |

### 11b-20M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

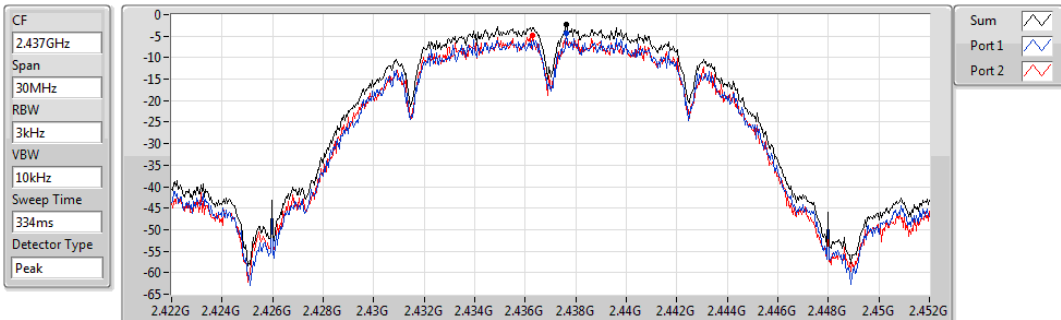


| Sum          | PD           | Port 1       | Port 2       |
|--------------|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| -2.57        | -2.57        | -4.72        | -5.22        |

### 11b-20M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

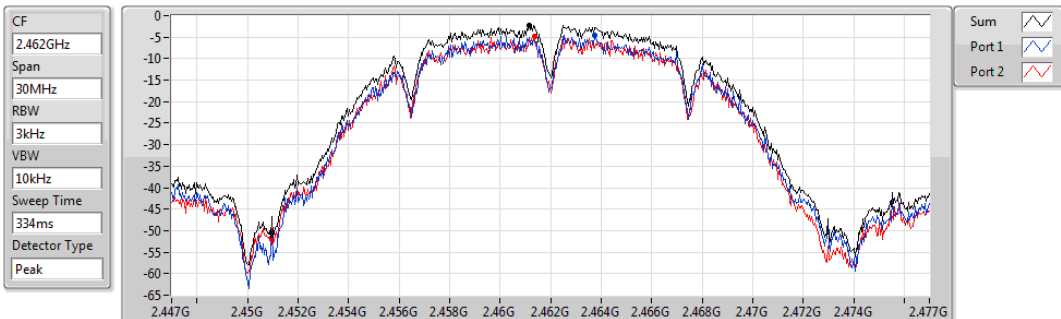


| Sum          | PD           | Port 1       | Port 2       |
|--------------|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| -2.39        | -2.39        | -4.35        | -4.75        |

### 11b-20M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

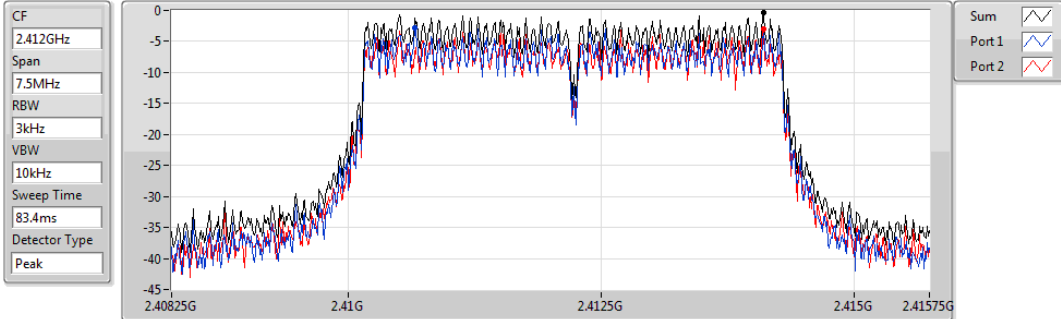


| Sum          | PD           | Port 1       | Port 2       |
|--------------|--------------|--------------|--------------|
| (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) | (dBm/100kHz) |
| -2.25        | -2.25        | -4.60        | -4.74        |

### 11g-5M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

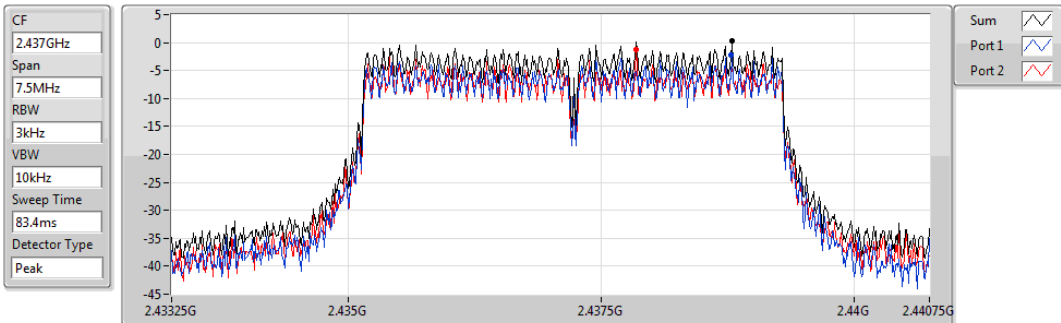


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.30     | -0.30     | -2.77     | -2.91     |

### 11g-5M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

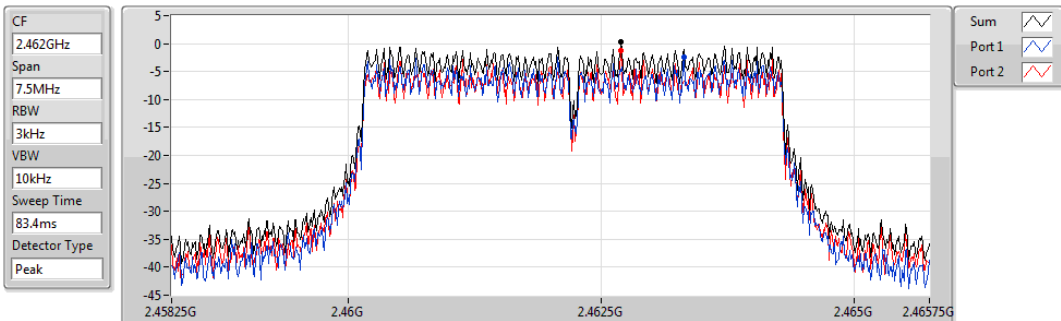


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.31      | 0.31      | -2.13     | -1.31     |

### 11g-5M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

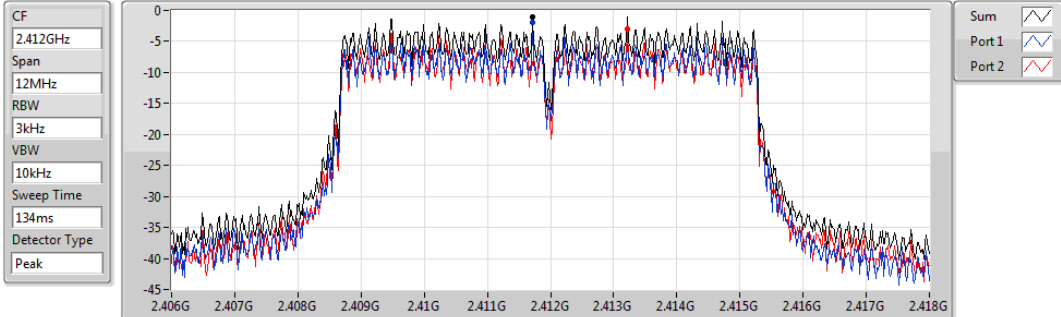


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.25      | 0.25      | -2.34     | -1.33     |

### 11g-8M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

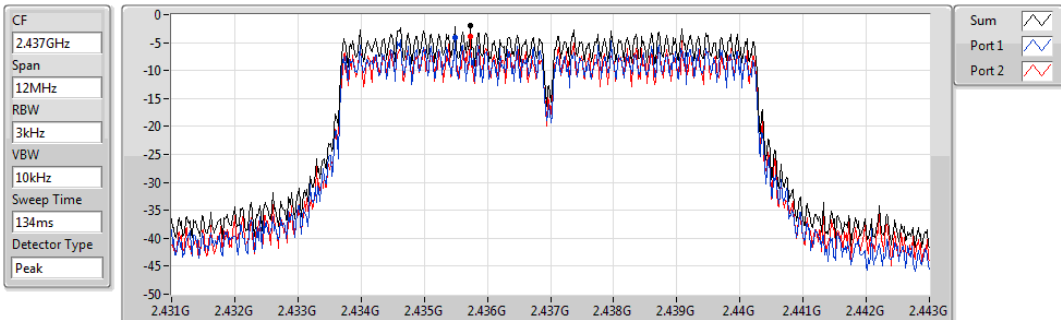


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.12     | -1.12     | -1.93     | -3.01     |

### 11g-8M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

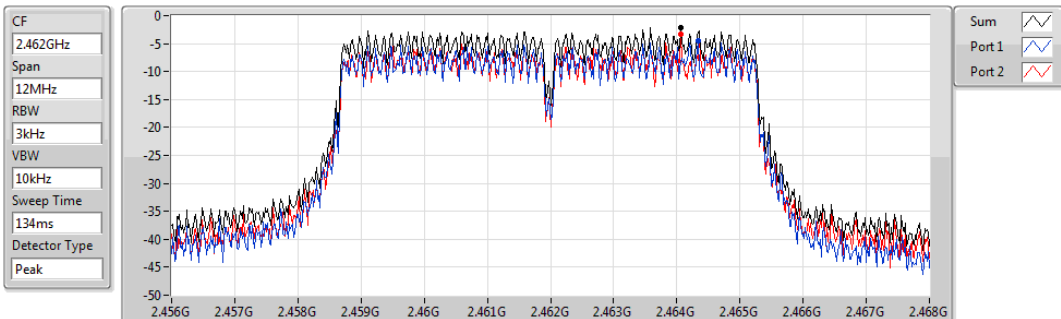


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.94     | -1.94     | -4.10     | -3.92     |

### 11g-8M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

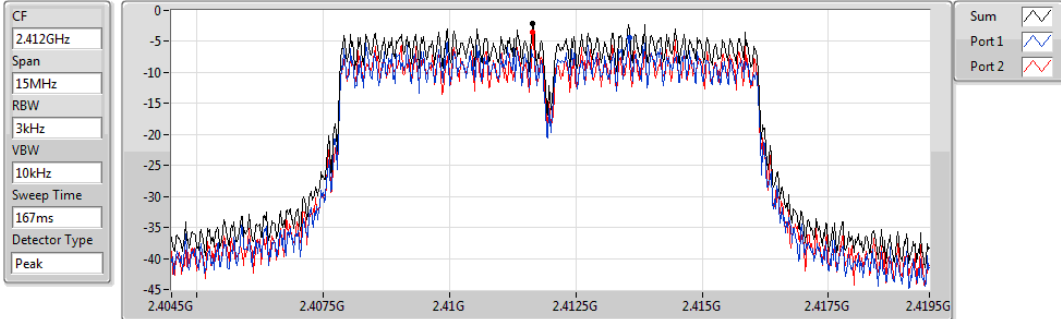


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.10     | -2.10     | -4.57     | -3.23     |

### 11g-10M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

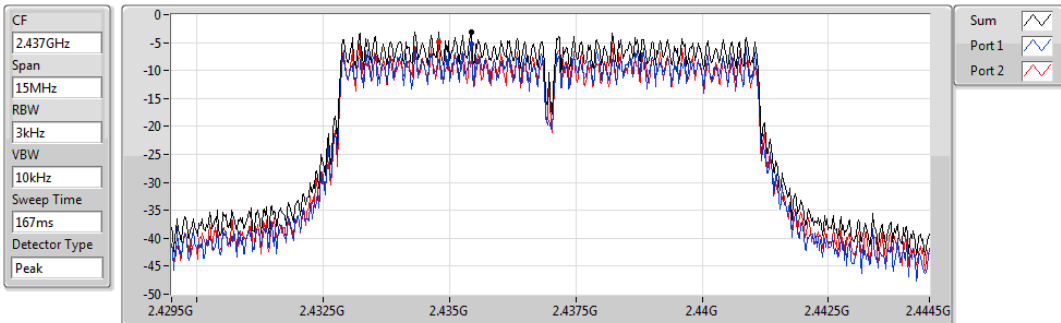


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.10     | -2.10     | -4.32     | -3.59     |

### 11g-10M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

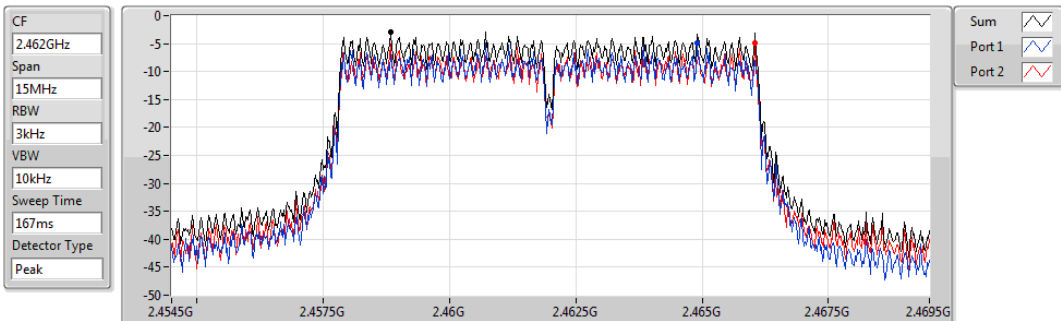


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.11     | -3.11     | -5.20     | -4.96     |

### 11g-10M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

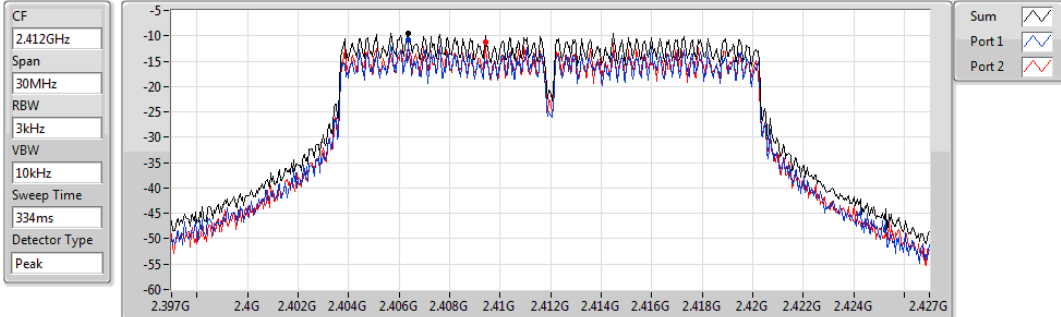


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.84     | -2.84     | -4.83     | -4.90     |

### 11g-20M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

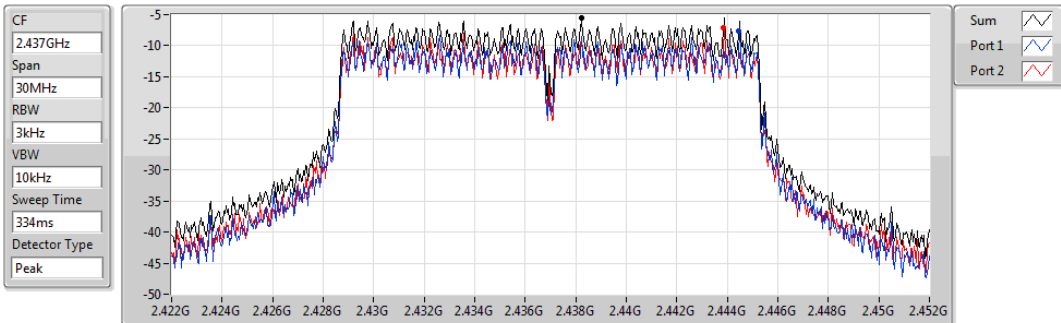


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.42     | -9.42     | -10.85    | -11.31    |

### 11g-20M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

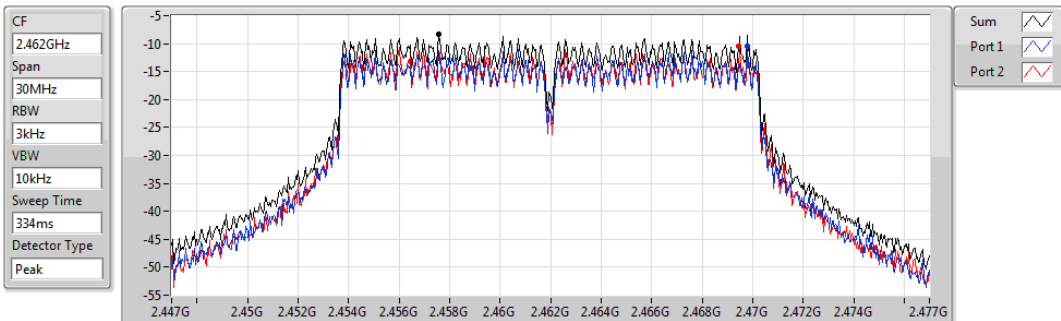


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.48     | -5.48     | -7.72     | -7.11     |

### 11g-20M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz



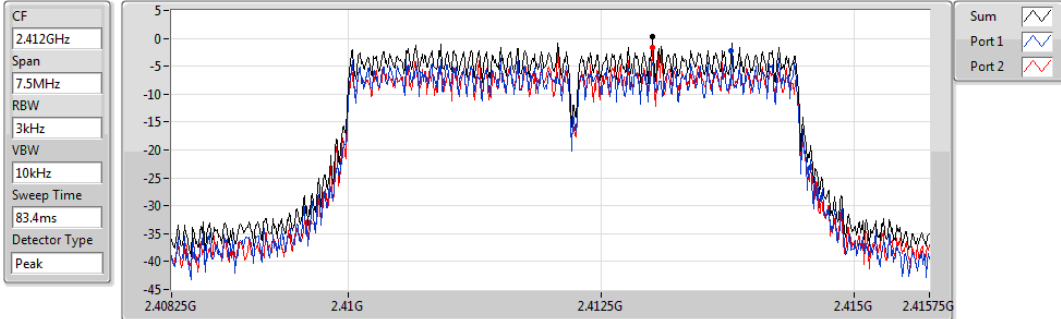
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -8.33     | -8.33     | -10.44    | -10.39    |



### HT-5M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

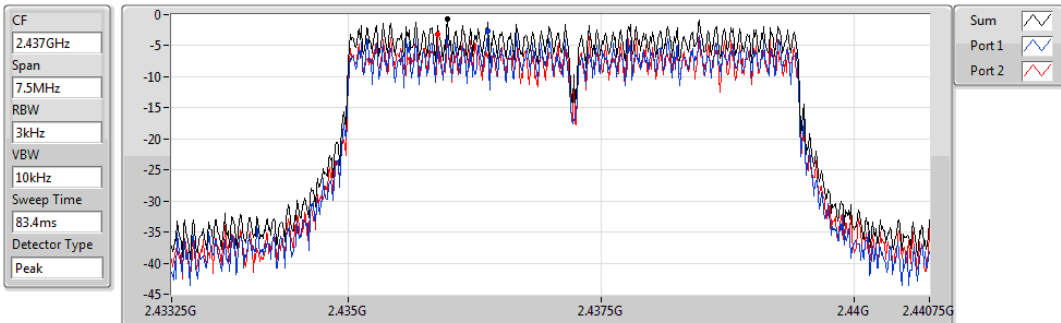


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.23      | 0.23      | -2.22     | -1.60     |

### HT-5M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

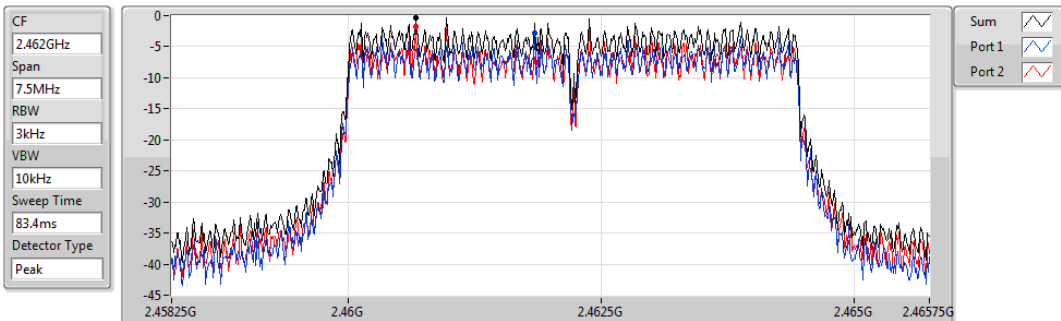


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.69     | -0.69     | -2.69     | -3.21     |

### HT-5M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

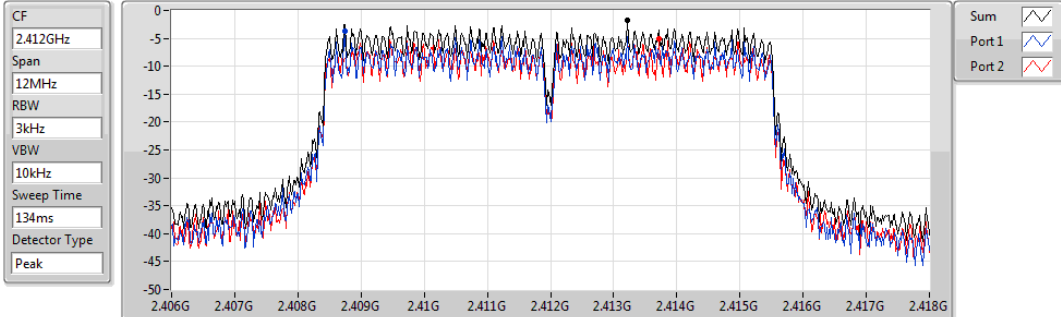


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.27     | -0.27     | -2.73     | -1.80     |

### HT-8M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

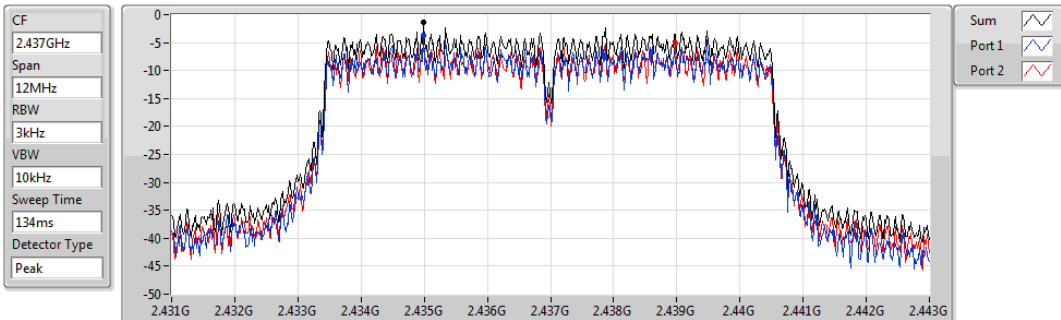


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.85     | -1.85     | -3.67     | -5.14     |

### HT-8M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

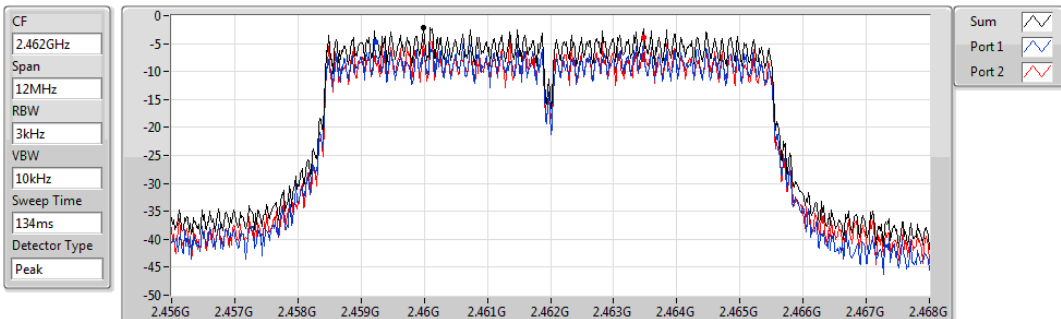


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.31     | -1.31     | -3.63     | -5.08     |

### HT-8M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

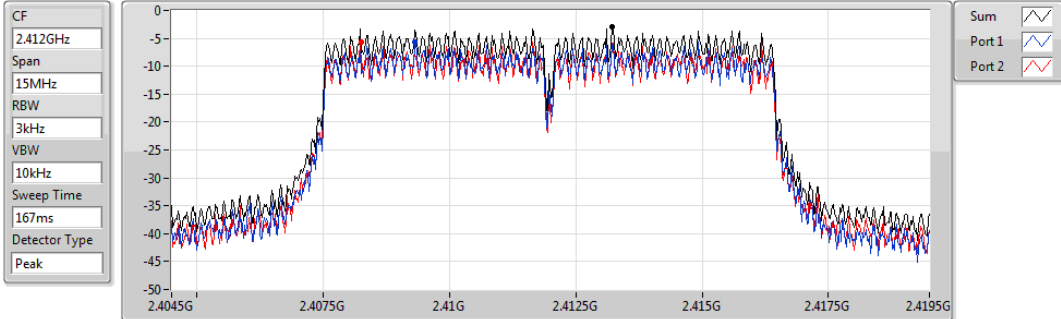


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.06     | -2.06     | -4.69     | -3.92     |

### HT-10M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

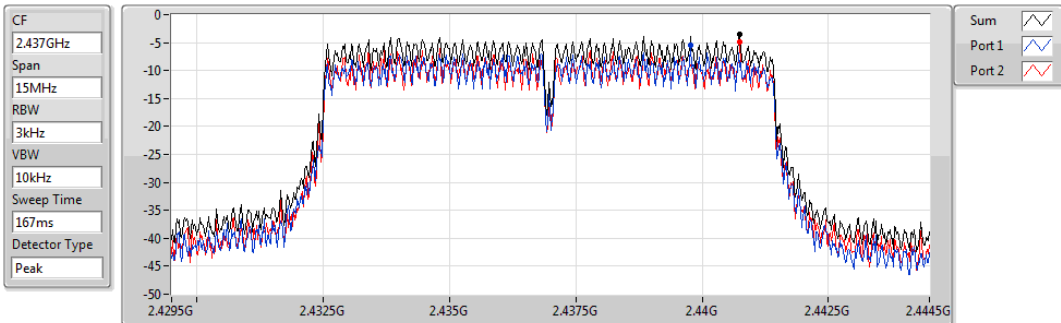


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.96     | -2.96     | -5.62     | -5.62     |

### HT-10M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

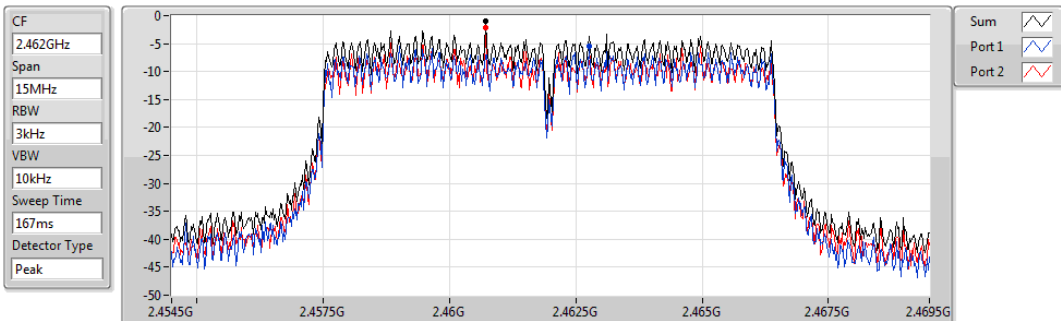


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.51     | -3.51     | -5.46     | -4.84     |

### HT-10M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

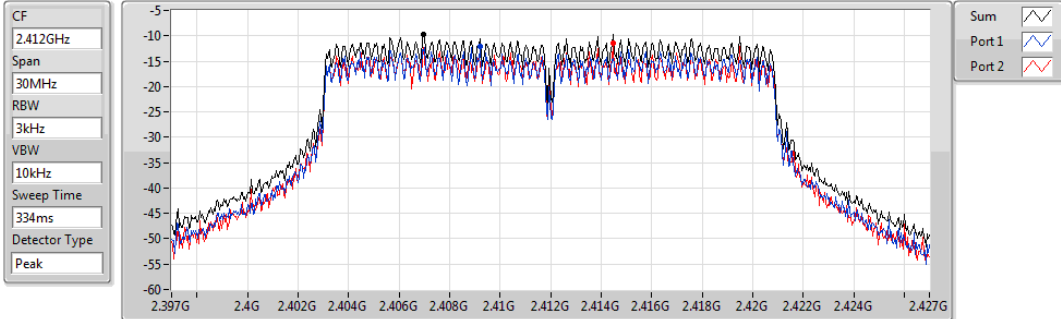


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.99     | -0.99     | -5.40     | -2.24     |

### HT-20M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

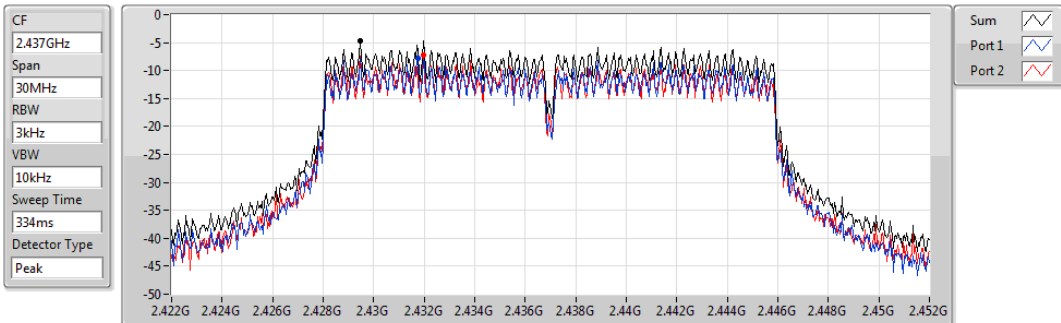


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.67     | -9.67     | -12.13    | -11.55    |

### HT-20M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

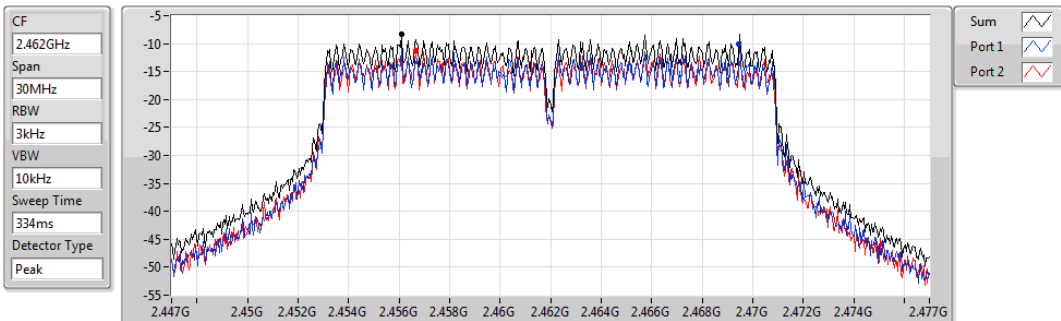


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.60     | -4.60     | -7.73     | -7.25     |

### HT-20M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

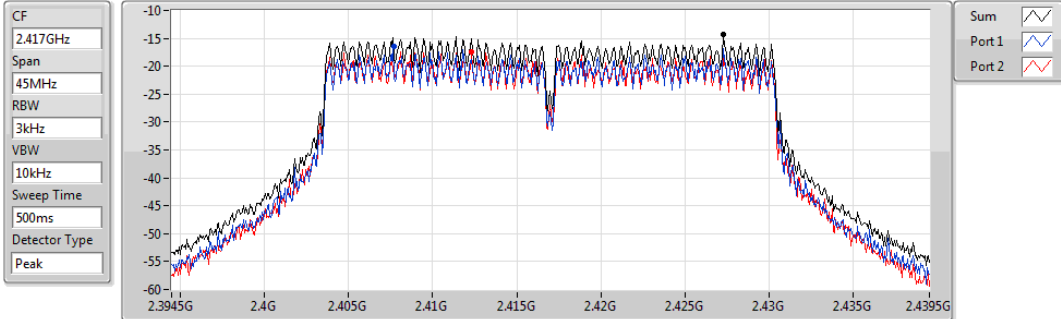


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -8.31     | -8.31     | -10.14    | -11.21    |

### HT-30M\_Nss1,(MCS0)\_2TX

PSD

2417MHz

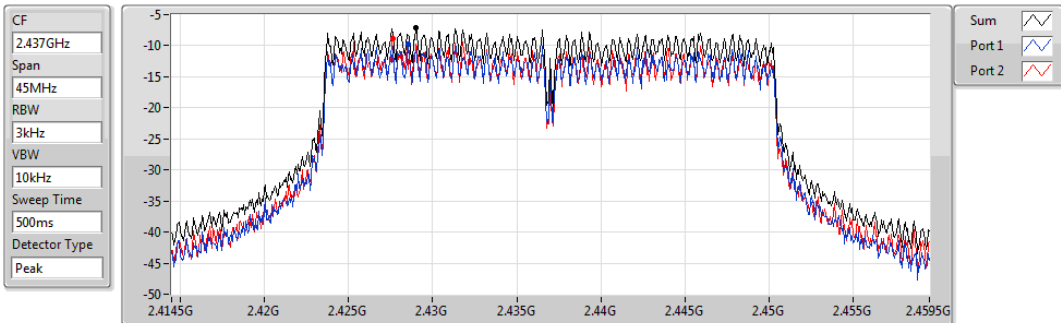


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -14.25    | -14.25    | -16.36    | -17.46    |

### HT-30M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

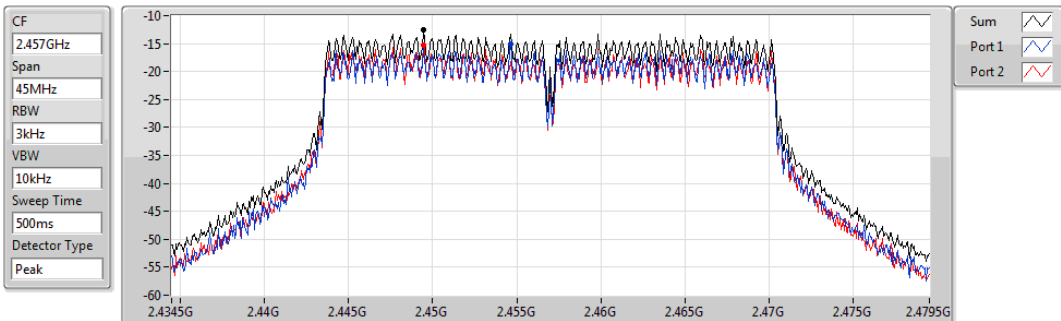


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -7.15     | -7.15     | -9.80     | -8.86     |

### HT-30M\_Nss1,(MCS0)\_2TX

PSD

2457MHz

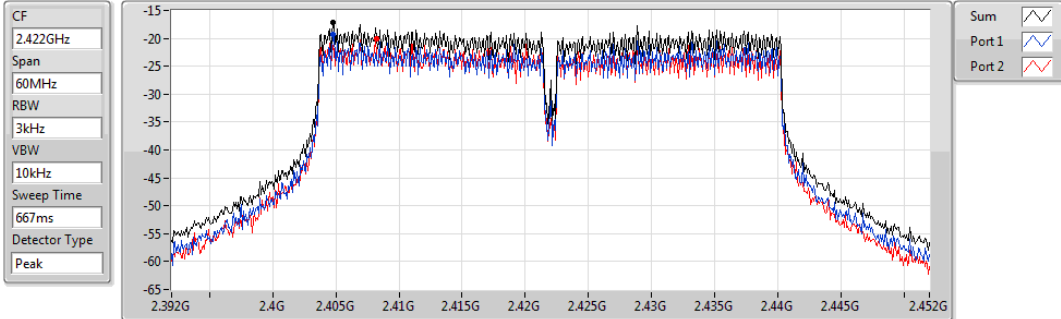


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -12.55    | -12.55    | -15.15    | -15.26    |

### HT-40M\_Nss1,(MCS0)\_2TX

PSD

2422MHz

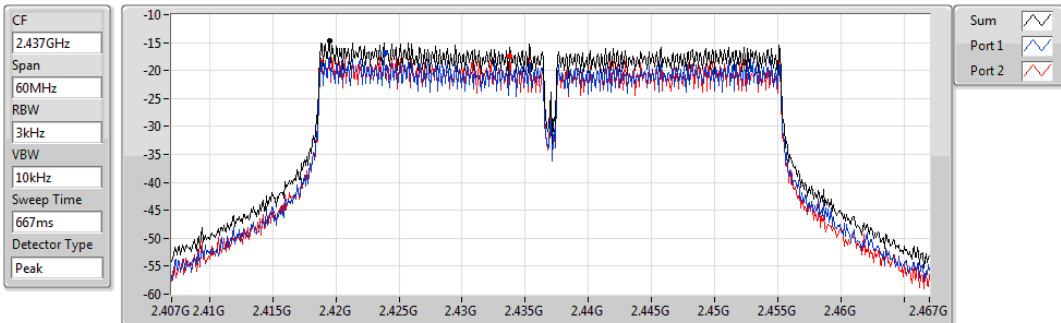


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -17.09    | -17.09    | -19.21    | -19.99    |

### HT-40M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

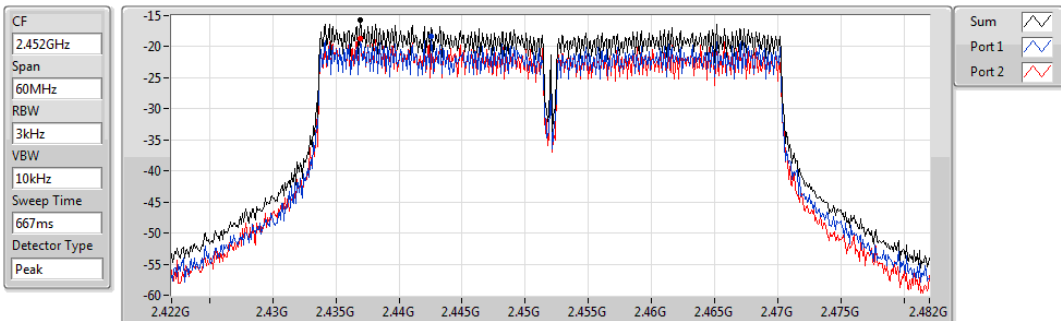


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -14.72    | -14.72    | -16.80    | -17.48    |

### HT-40M\_Nss1,(MCS0)\_2TX

PSD

2452MHz



| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -15.74    | -15.74    | -18.31    | -18.66    |

## Configuration 2: Wi-Fi point-to-multipoint Summary

| Mode                     | PD<br>(dBm/RBW) |
|--------------------------|-----------------|
| 2.4-2.4835GHz            | -               |
| 11b-5M_Nss1,(1Mbps)_2TX  | 3.24            |
| 11b-8M_Nss1,(1Mbps)_2TX  | 1.53            |
| 11b-10M_Nss1,(1Mbps)_2TX | 1.62            |
| 11b-20M_Nss1,(1Mbps)_2TX | -2.25           |
| 11g-5M_Nss1,(6Mbps)_2TX  | -1.84           |
| 11g-8M_Nss1,(6Mbps)_2TX  | -4.38           |
| 11g-10M_Nss1,(6Mbps)_2TX | -4.07           |
| 11g-20M_Nss1,(6Mbps)_2TX | -7.28           |
| HT-5M_Nss1,(MCS0)_2TX    | -2.56           |
| HT-8M_Nss1,(MCS0)_2TX    | -3.27           |
| HT-10M_Nss1,(MCS0)_2TX   | -4.62           |
| HT-20M_Nss1,(MCS0)_2TX   | -7.47           |
| HT-30M_Nss1,(MCS0)_2TX   | -9.36           |
| HT-40M_Nss1,(MCS0)_2TX   | -14.72          |

## 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) |
|--------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 11b-5M_Nss1,(1Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | 1.58                | 0.21                | 3.24            | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | 0.92                | 0.41                | 3.02            | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | 0.33                | 0.11                | 2.39            | 6.00                  |
| 11b-8M_Nss1,(1Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -0.65               | -0.87               | 1.15            | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -1.13               | -1.59               | 1.47            | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -0.61               | -0.22               | 1.53            | 6.00                  |
| 11b-10M_Nss1,(1Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -1.81               | -1.05               | 0.76            | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -1.80               | -2.18               | 0.18            | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | 0.21                | -1.79               | 1.62            | 6.00                  |
| 11b-20M_Nss1,(1Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -4.72               | -5.22               | -2.57           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -4.35               | -4.75               | -2.39           | 6.00                  |

| Mode                     | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|--------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 2462MHz                  | Pass   | 8.00        | -4.60               | -4.74               | -2.25           | 6.00                  |
| 11g-5M_Nss1,(6Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -4.90               | -3.27               | -1.84           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -2.96               | -5.17               | -1.92           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -3.90               | -3.51               | -1.89           | 6.00                  |
| 11g-8M_Nss1,(6Mbps)_2TX  | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -7.21               | -6.20               | -4.38           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -6.74               | -6.73               | -4.66           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -6.23               | -7.67               | -4.72           | 6.00                  |
| 11g-10M_Nss1,(6Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -8.16               | -8.47               | -5.87           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -6.86               | -6.59               | -4.07           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -7.71               | -8.13               | -5.61           | 6.00                  |
| 11g-20M_Nss1,(6Mbps)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -10.85              | -11.31              | -9.42           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -9.47               | -10.06              | -7.28           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -11.78              | -12.00              | -9.35           | 6.00                  |
| HT-5M_Nss1,(MCS0)_2TX    | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -5.46               | -4.84               | -3.29           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -4.44               | -5.93               | -2.56           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -5.39               | -6.06               | -3.67           | 6.00                  |
| HT-8M_Nss1,(MCS0)_2TX    | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -7.70               | -6.27               | -4.82           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -5.46               | -6.89               | -4.37           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -4.33               | -7.05               | -3.27           | 6.00                  |
| HT-10M_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -7.35               | -7.53               | -5.21           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -6.52               | -8.18               | -4.99           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -7.18               | -7.45               | -4.62           | 6.00                  |
| HT-20M_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     |
| 2412MHz                  | Pass   | 8.00        | -12.13              | -11.55              | -9.67           | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -10.01              | -9.68               | -7.47           | 6.00                  |
| 2462MHz                  | Pass   | 8.00        | -10.14              | -11.21              | -8.31           | 6.00                  |
| HT-30M_Nss1,(MCS0)_2TX   | -      | -           | -                   | -                   | -               | -                     |
| 2417MHz                  | Pass   | 8.00        | -16.36              | -17.46              | -14.25          | 6.00                  |
| 2437MHz                  | Pass   | 8.00        | -11.61              | -11.61              | -9.36           | 6.00                  |



| Mode                   | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) |
|------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|
| 2457MHz                | Pass   | 8.00        | -15.15              | -15.26              | -12.55          | 6.00                  |
| HT-40M_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     |
| 2422MHz                | Pass   | 8.00        | -19.21              | -19.99              | -17.09          | 6.00                  |
| 2437MHz                | Pass   | 8.00        | -16.80              | -17.48              | -14.72          | 6.00                  |
| 2452MHz                | Pass   | 8.00        | -18.31              | -18.66              | -15.74          | 6.00                  |

**DG** = Directional Gain =8 dBi > 6dBi

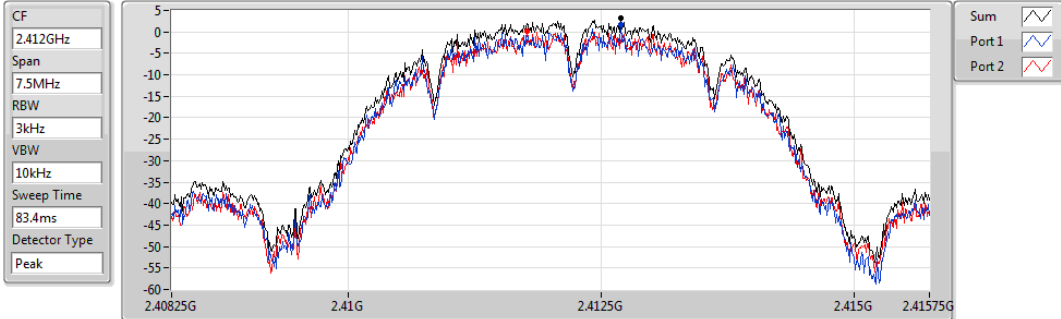
Power limit shall be reduced to 8 dBm – ( 8 dBi – 6 dBi ) = 6 dBm

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

### 11b-5M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

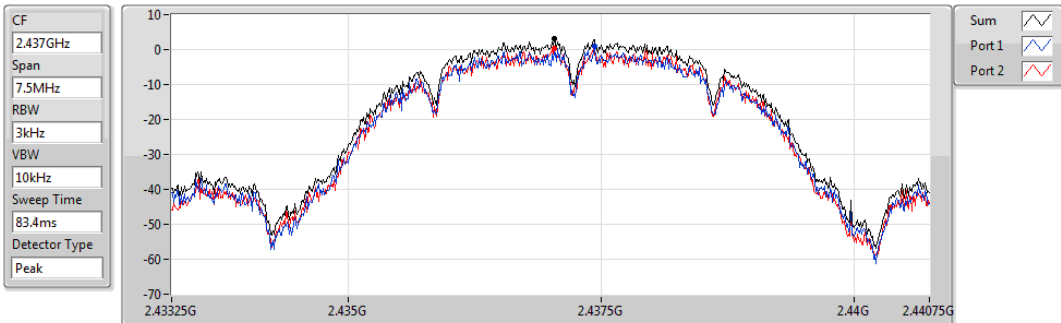


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 3.24      | 3.24      | 1.58      | 0.21      |

### 11b-5M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

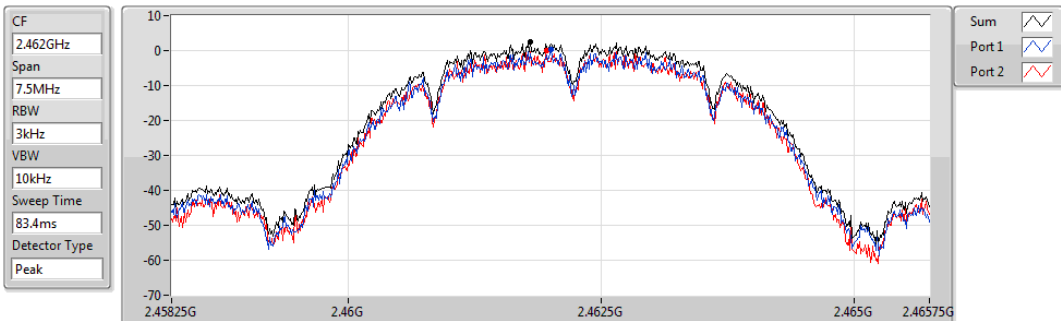


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 3.02      | 3.02      | 0.92      | 0.41      |

### 11b-5M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

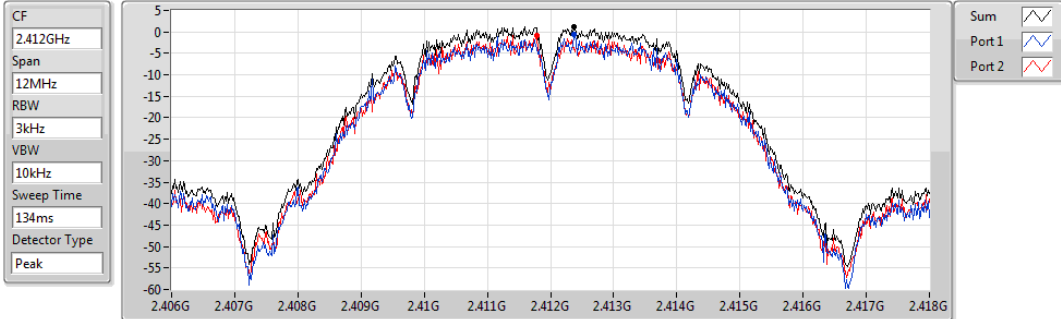


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 2.39      | 2.39      | 0.33      | 0.11      |

### 11b-8M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

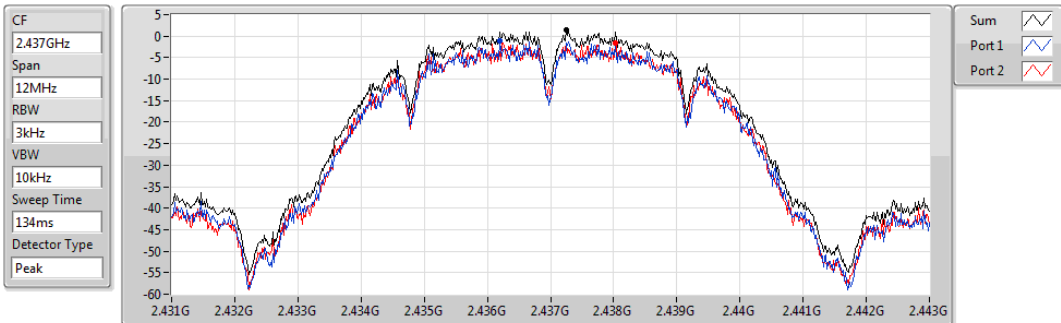


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.15      | 1.15      | -0.65     | -0.87     |

### 11b-8M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

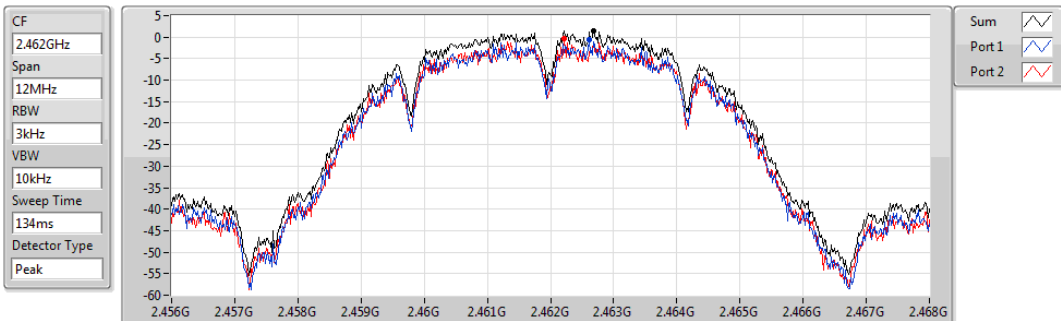


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.47      | 1.47      | -1.13     | -1.59     |

### 11b-8M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

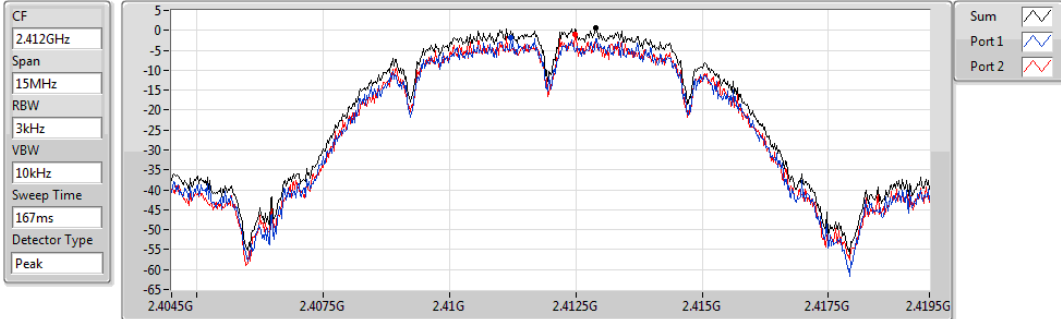


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.53      | 1.53      | -0.61     | -0.22     |

### 11b-10M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

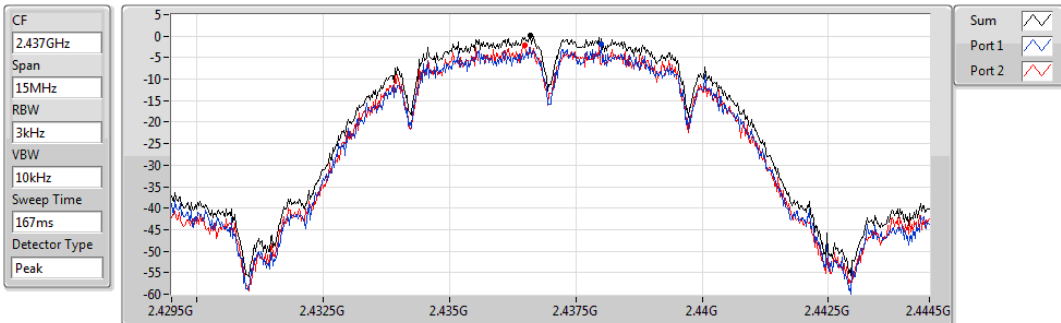


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.76      | 0.76      | -1.81     | -1.05     |

### 11b-10M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

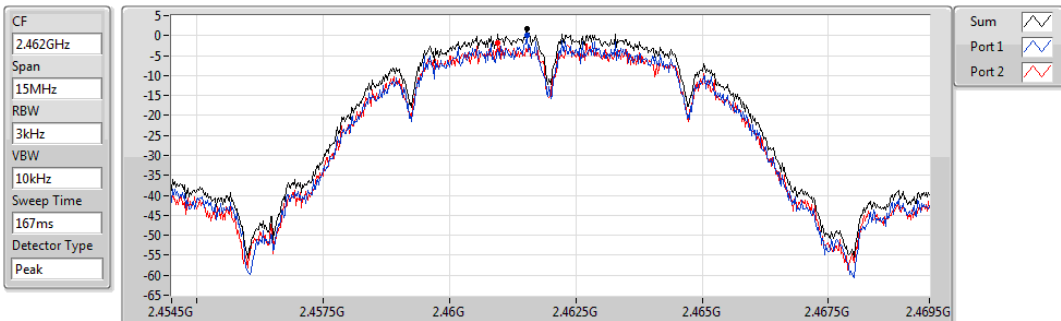


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 0.18      | 0.18      | -1.80     | -2.18     |

### 11b-10M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

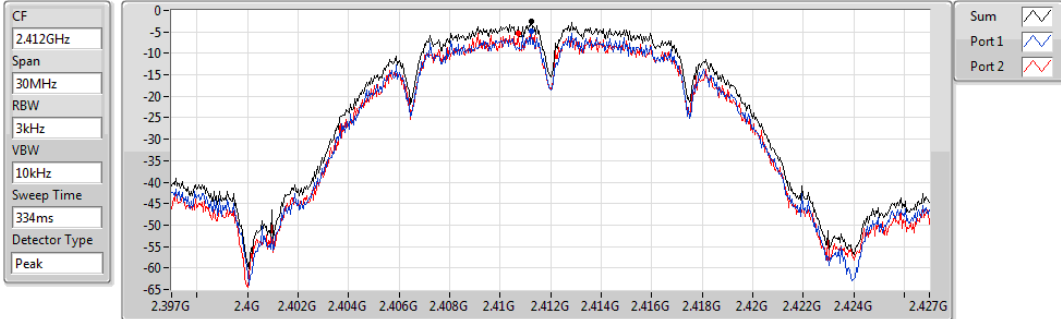


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.62      | 1.62      | 0.21      | -1.79     |

### 11b-20M\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

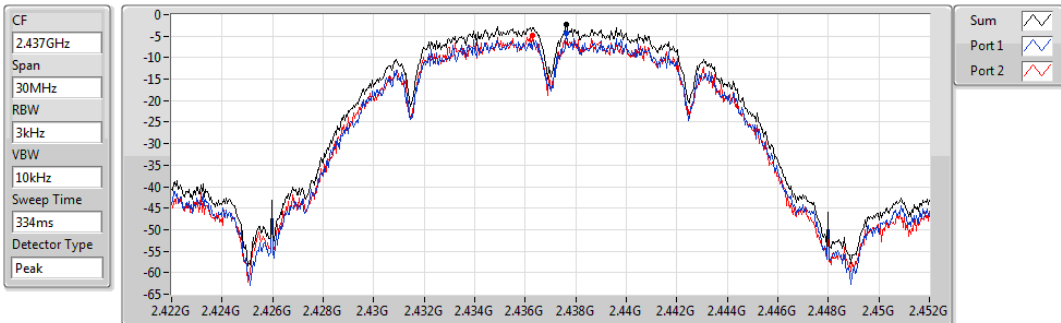


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.57     | -2.57     | -4.72     | -5.22     |

### 11b-20M\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

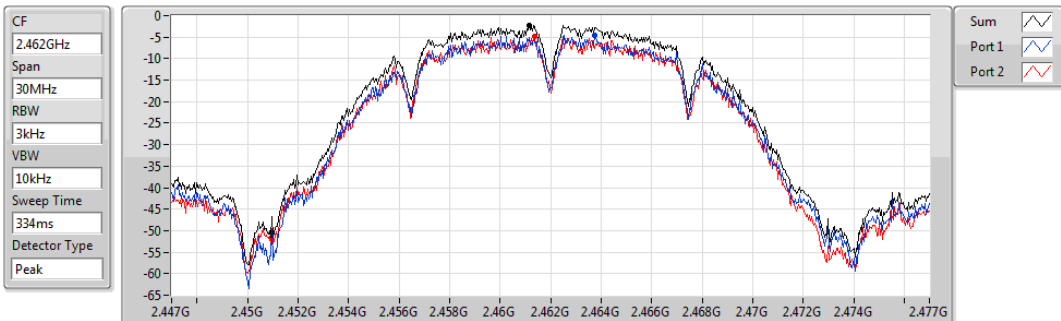


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.39     | -2.39     | -4.35     | -4.75     |

### 11b-20M\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

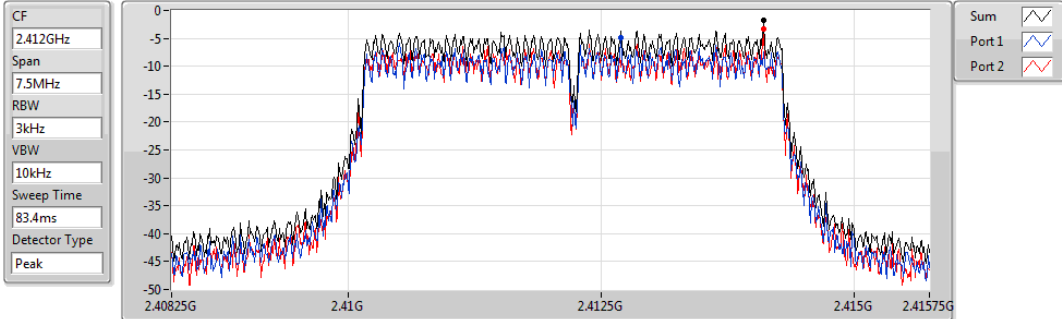


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.25     | -2.25     | -4.60     | -4.74     |

### 11g-5M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

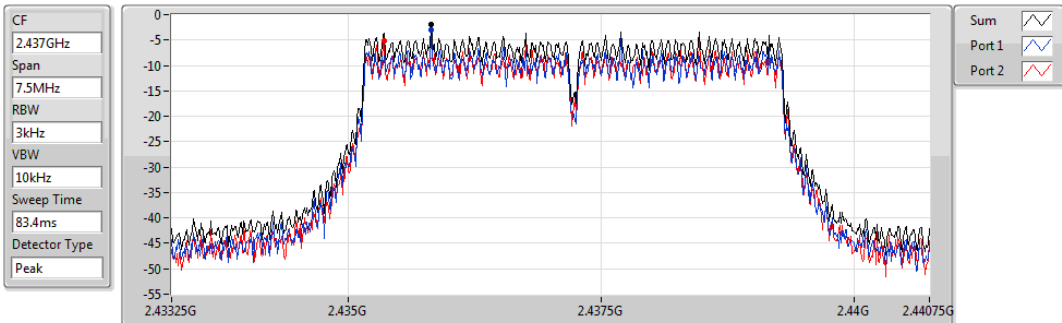


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.84     | -1.84     | -4.90     | -3.27     |

### 11g-5M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

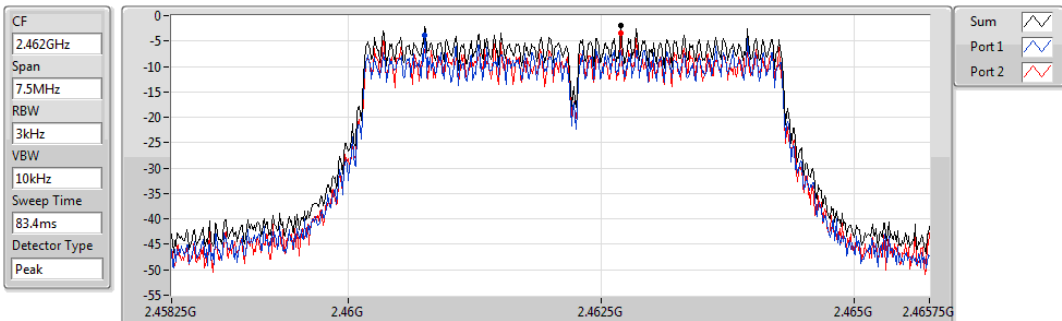


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.92     | -1.92     | -2.96     | -5.17     |

### 11g-5M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

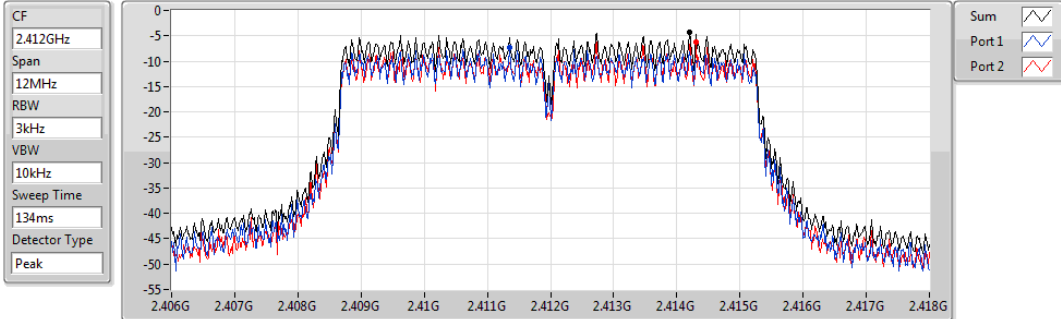


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -1.89     | -1.89     | -3.90     | -3.51     |

### 11g-8M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

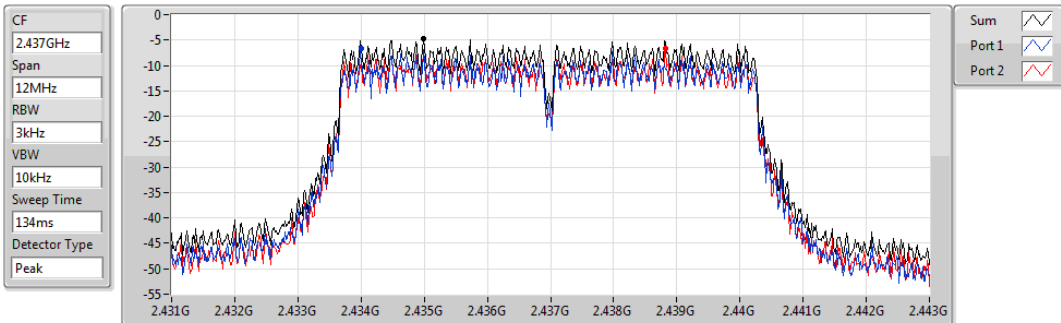


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.38     | -4.38     | -7.21     | -6.20     |

### 11g-8M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

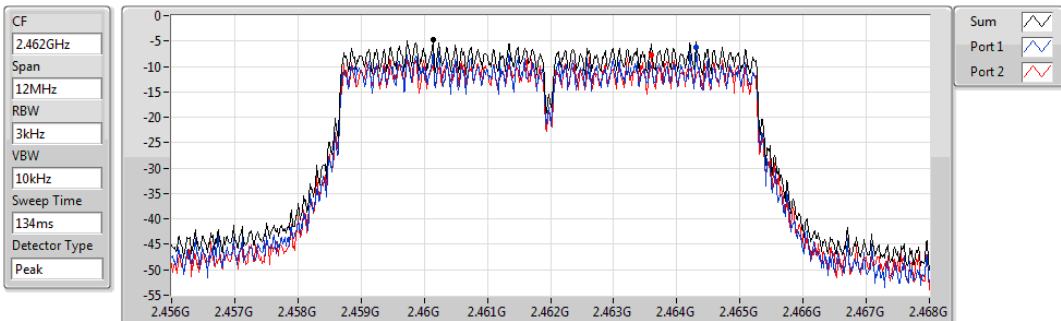


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.66     | -4.66     | -6.74     | -6.73     |

### 11g-8M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

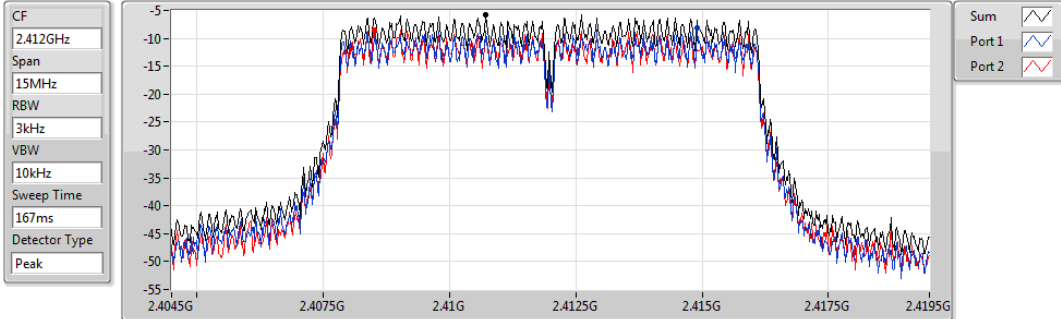


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.72     | -4.72     | -6.23     | -7.67     |

### 11g-10M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

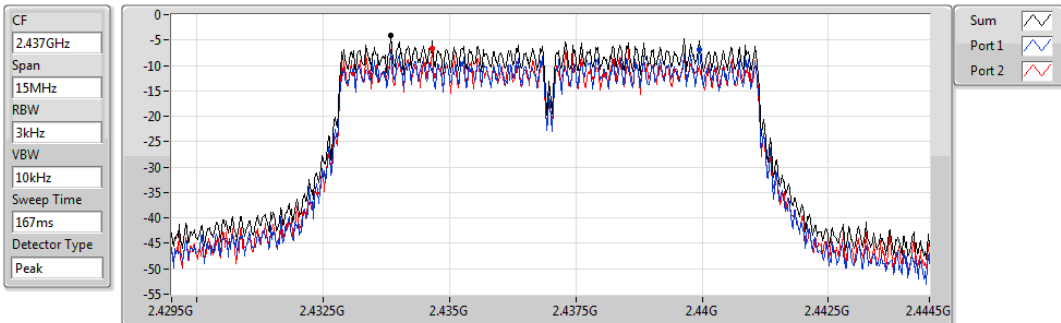


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.87     | -5.87     | -8.16     | -8.47     |

### 11g-10M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

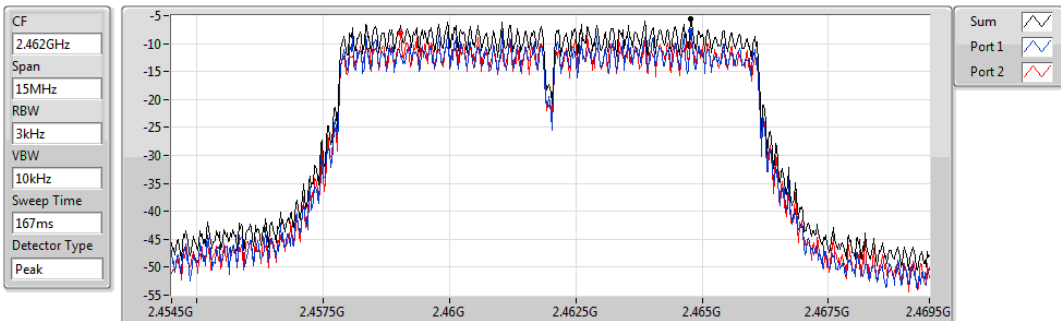


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.07     | -4.07     | -6.86     | -6.59     |

### 11g-10M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz



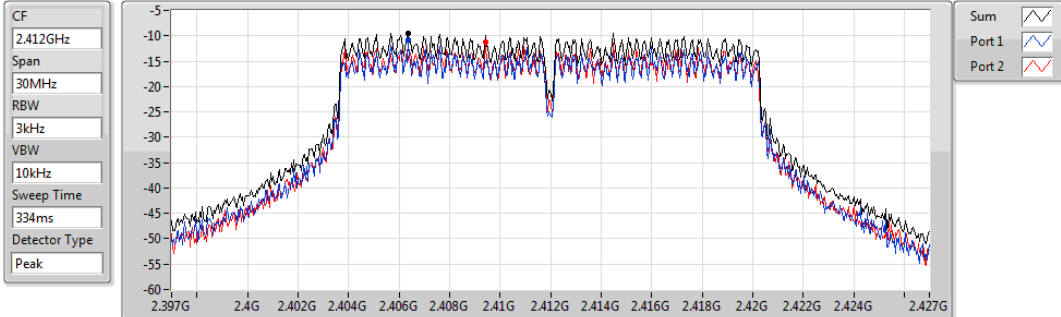
| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.61     | -5.61     | -7.71     | -8.13     |



### 11g-20M\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

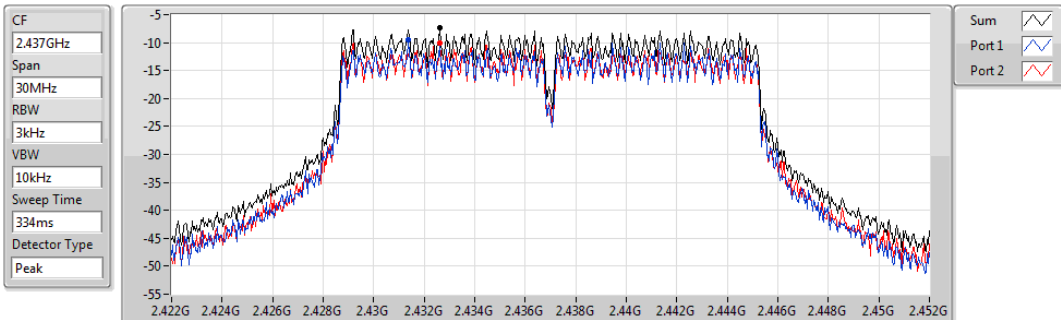


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.42     | -9.42     | -10.85    | -11.31    |

### 11g-20M\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

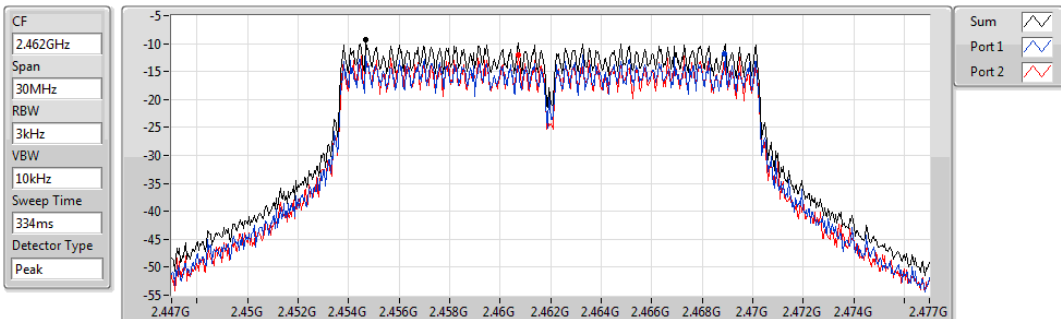


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -7.28     | -7.28     | -9.47     | -10.06    |

### 11g-20M\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

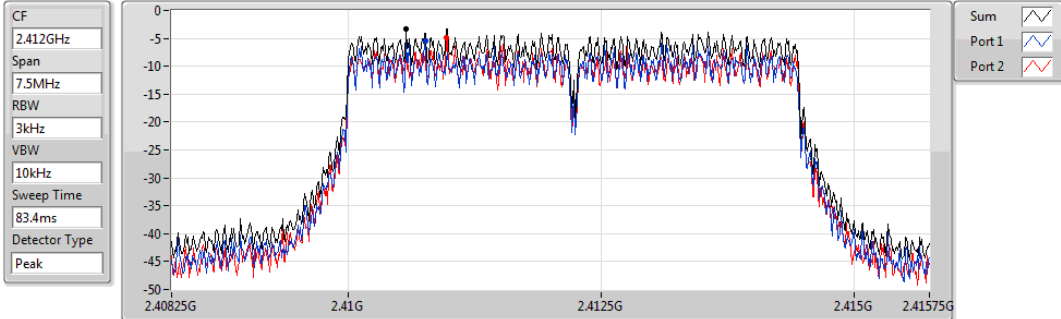


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.35     | -9.35     | -11.78    | -12.00    |

### HT-5M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

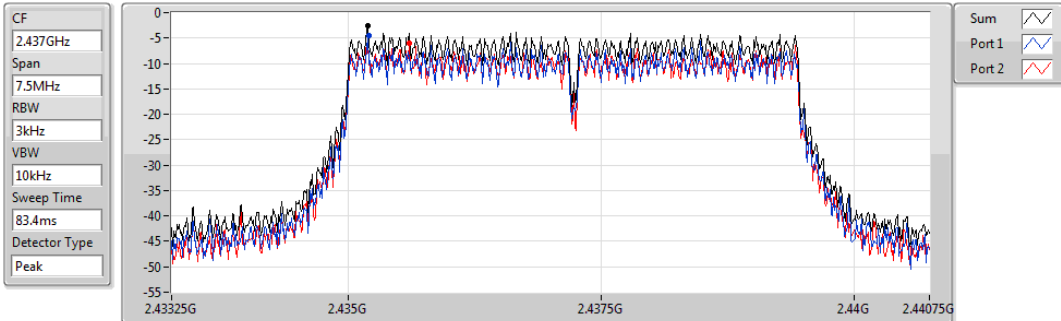


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.29     | -3.29     | -5.46     | -4.84     |

### HT-5M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

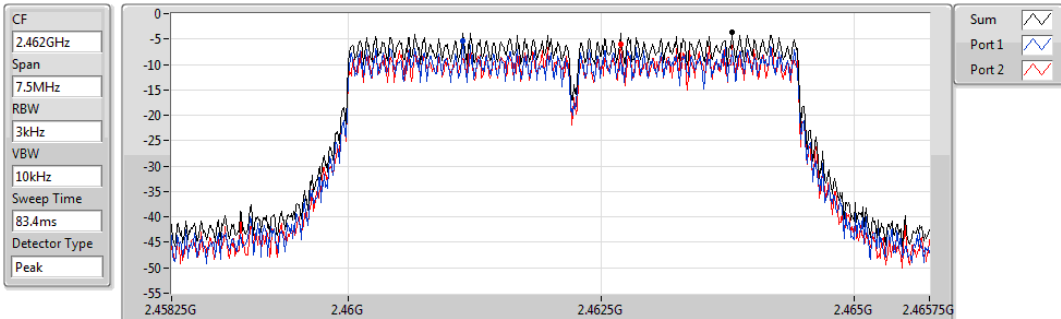


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -2.56     | -2.56     | -4.44     | -5.93     |

### HT-5M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

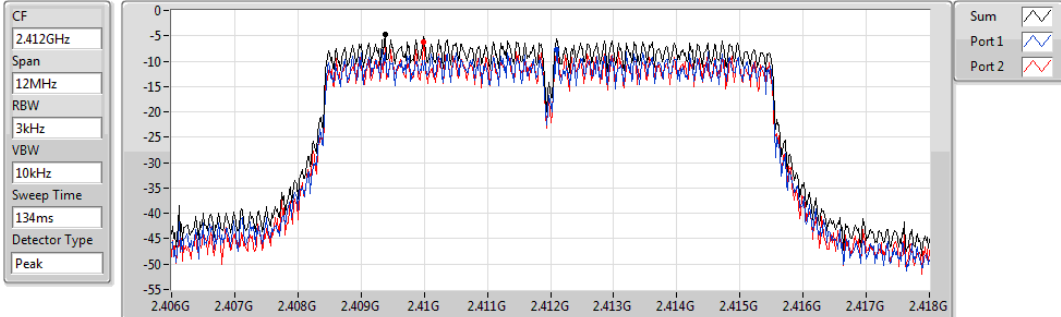


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -3.67     | -3.67     | -5.39     | -6.06     |

### HT-8M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

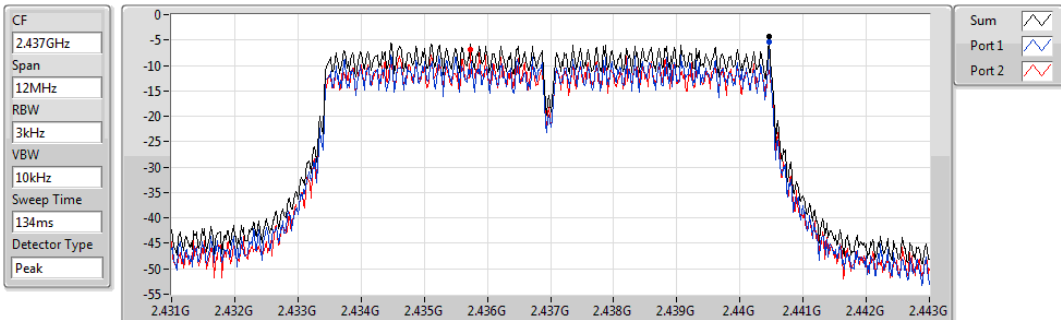


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) |
| -4.82       | -4.82       | -7.70       | -6.27       |

### HT-8M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

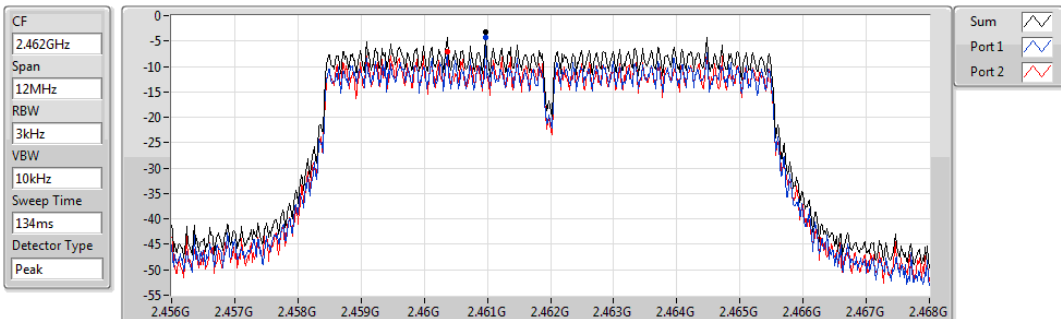


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) |
| -4.37       | -4.37       | -5.46       | -6.89       |

### HT-8M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

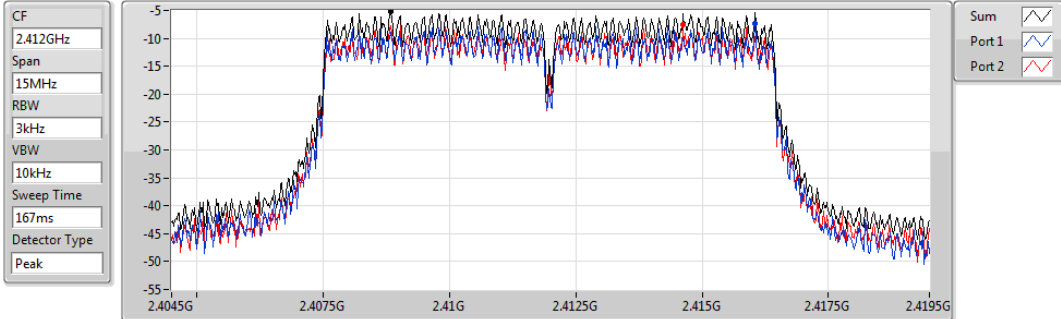


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) | (dBm/12MHz) |
| -3.27       | -3.27       | -4.33       | -7.05       |

### HT-10M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

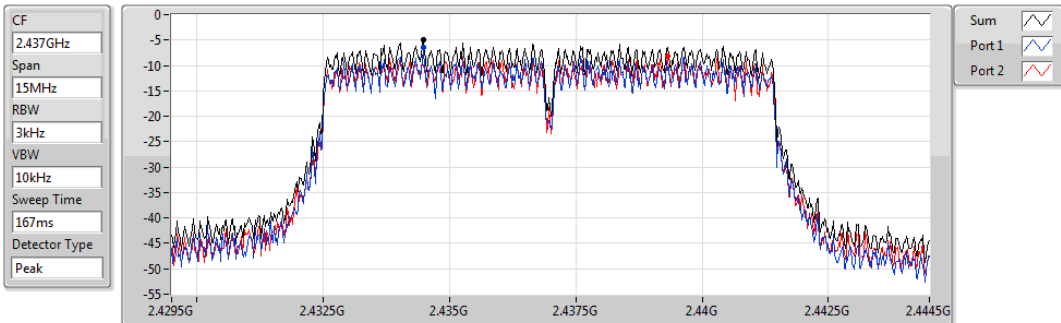


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -5.21     | -5.21     | -7.35     | -7.53     |

### HT-10M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

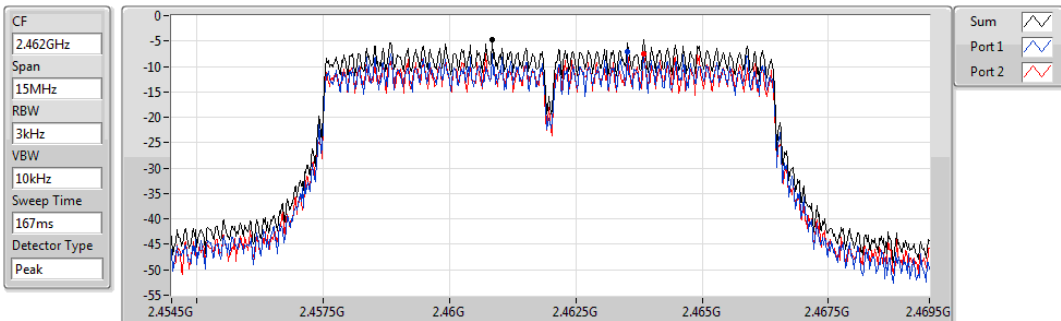


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.99     | -4.99     | -6.52     | -8.18     |

### HT-10M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

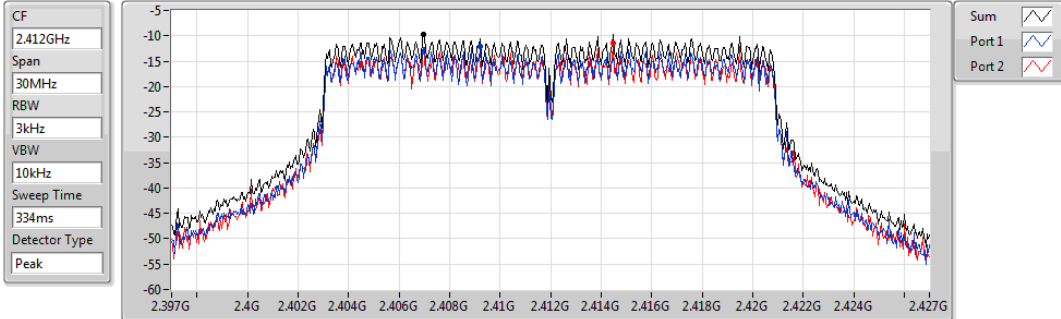


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -4.62     | -4.62     | -7.18     | -7.45     |

### HT-20M\_Nss1,(MCS0)\_2TX

PSD

2412MHz

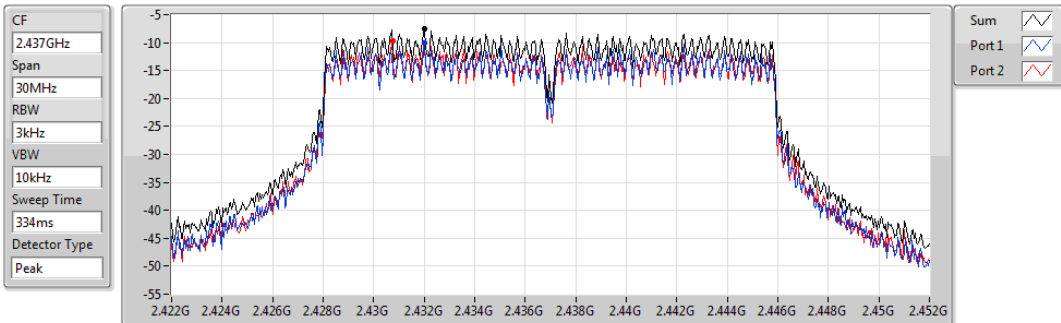


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.67     | -9.67     | -12.13    | -11.55    |

### HT-20M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

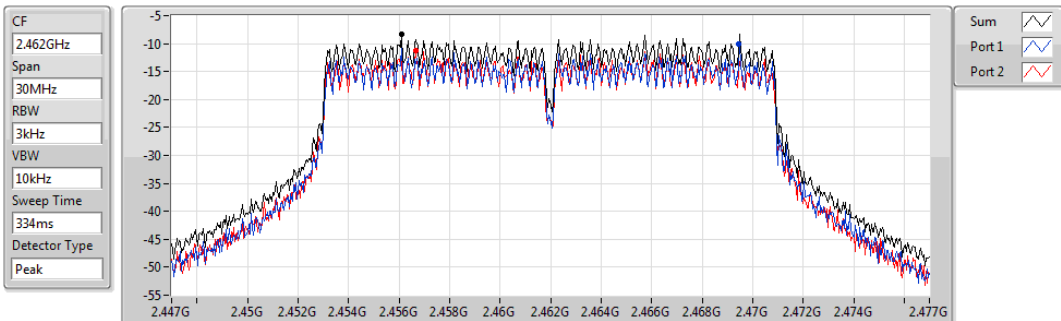


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -7.47     | -7.47     | -10.01    | -9.68     |

### HT-20M\_Nss1,(MCS0)\_2TX

PSD

2462MHz

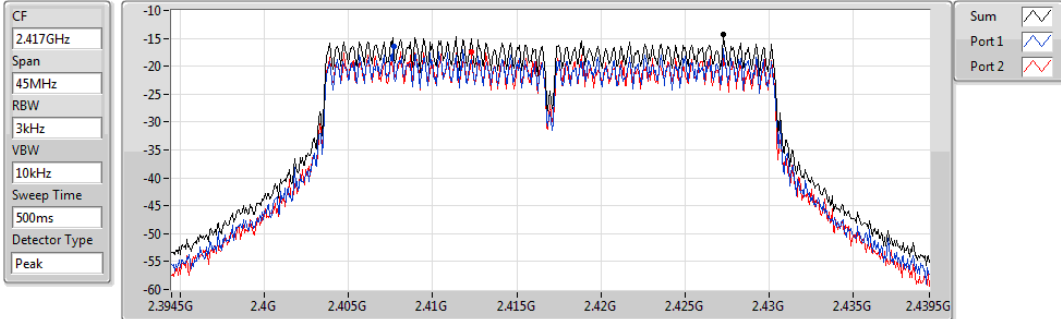


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -8.31     | -8.31     | -10.14    | -11.21    |

### HT-30M\_Nss1,(MCS0)\_2TX

PSD

2417MHz

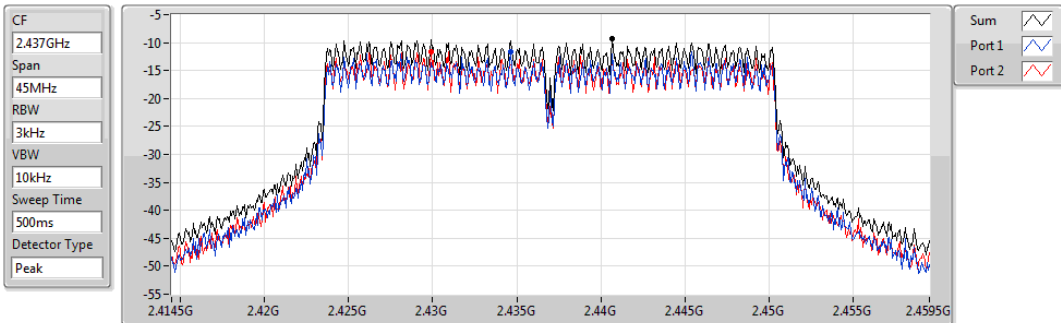


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -14.25    | -14.25    | -16.36    | -17.46    |

### HT-30M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

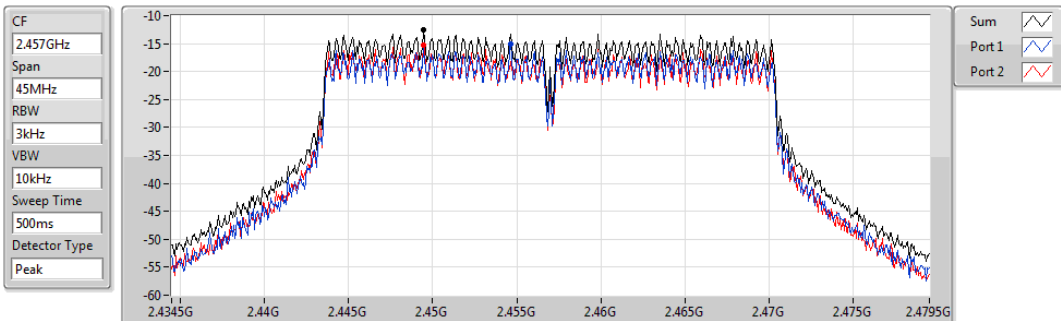


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -9.36     | -9.36     | -11.61    | -11.61    |

### HT-30M\_Nss1,(MCS0)\_2TX

PSD

2457MHz

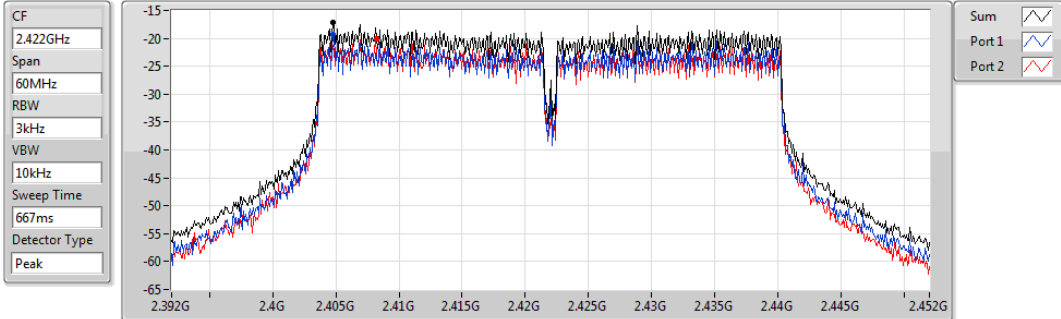


| Sum       | PD        | Port 1    | Port 2    |
|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -12.55    | -12.55    | -15.15    | -15.26    |

### HT-40M\_Nss1,(MCS0)\_2TX

PSD

2422MHz

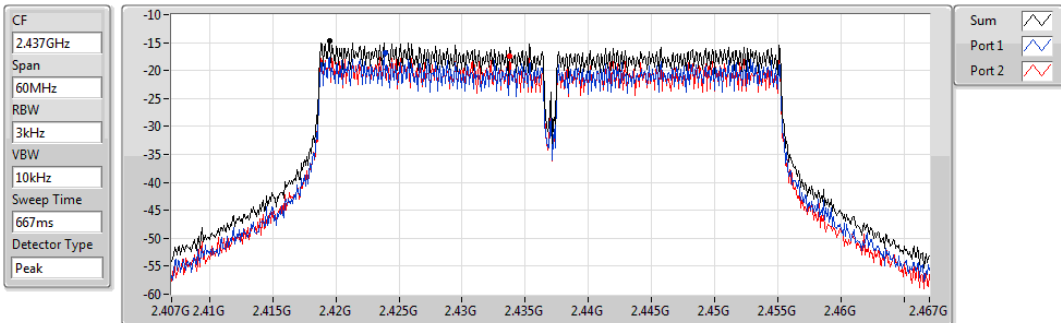


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/100Hz) | (dBm/100Hz) | (dBm/100Hz) | (dBm/100Hz) |
| -17.09      | -17.09      | -19.21      | -19.99      |

### HT-40M\_Nss1,(MCS0)\_2TX

PSD

2437MHz

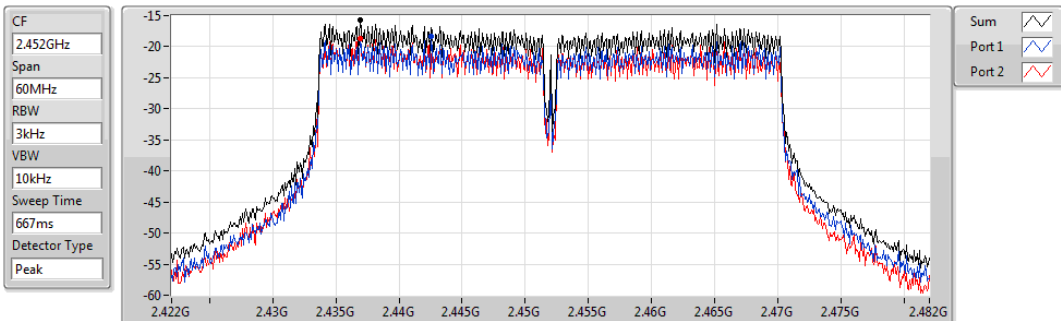


| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/100Hz) | (dBm/100Hz) | (dBm/100Hz) | (dBm/100Hz) |
| -14.72      | -14.72      | -16.80      | -17.48      |

### HT-40M\_Nss1,(MCS0)\_2TX

PSD

2452MHz



| Sum         | PD          | Port 1      | Port 2      |
|-------------|-------------|-------------|-------------|
| (dBm/100Hz) | (dBm/100Hz) | (dBm/100Hz) | (dBm/100Hz) |
| -15.74      | -15.74      | -18.31      | -18.66      |

## 3.5 Unwanted Emissions into Restricted Frequency Bands

### 3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| 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:**  
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

### 3.5.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

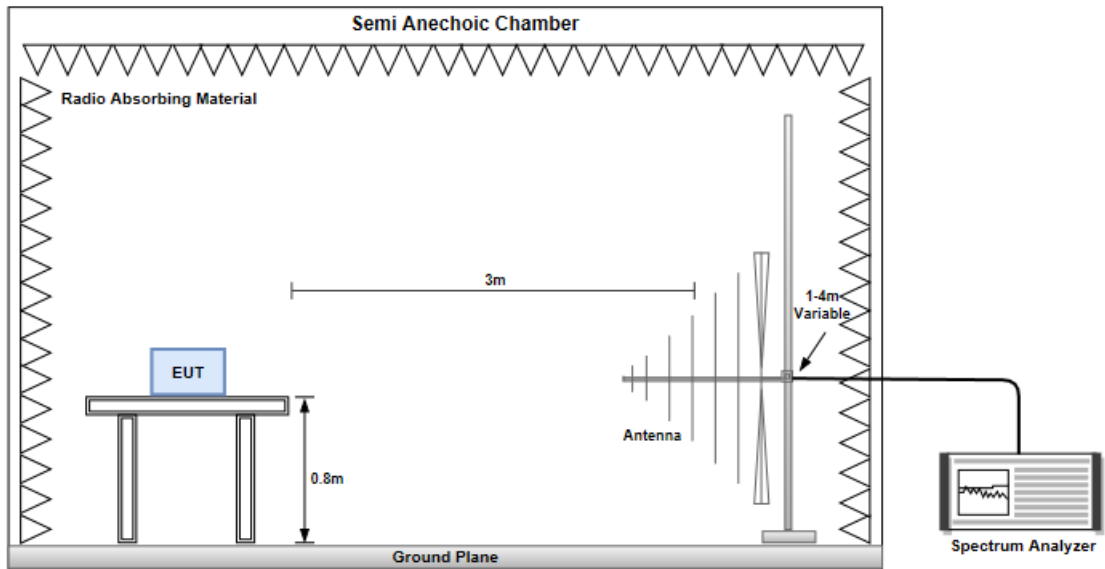
Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

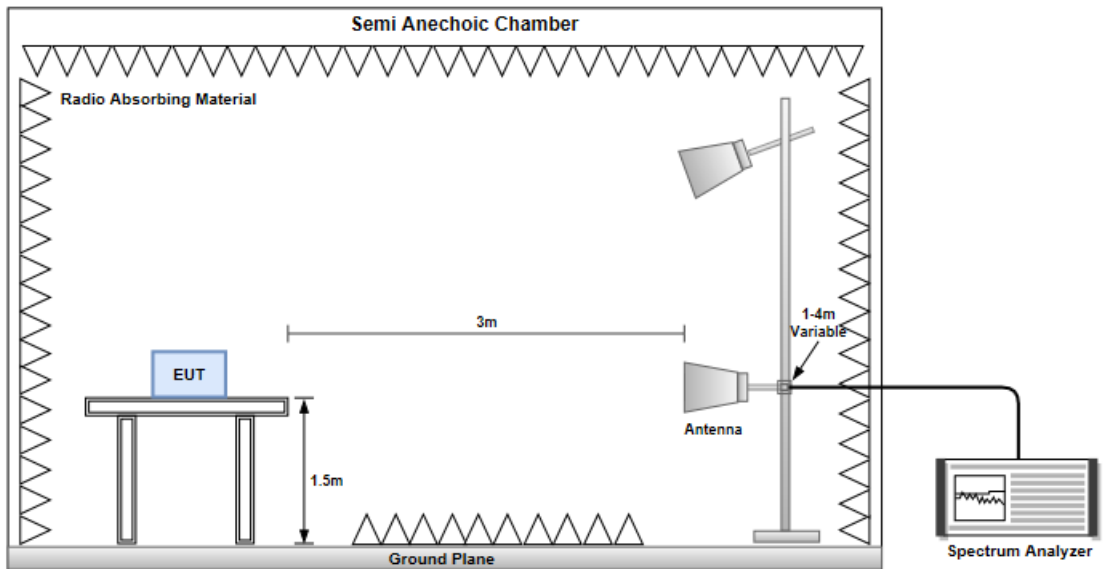


### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz

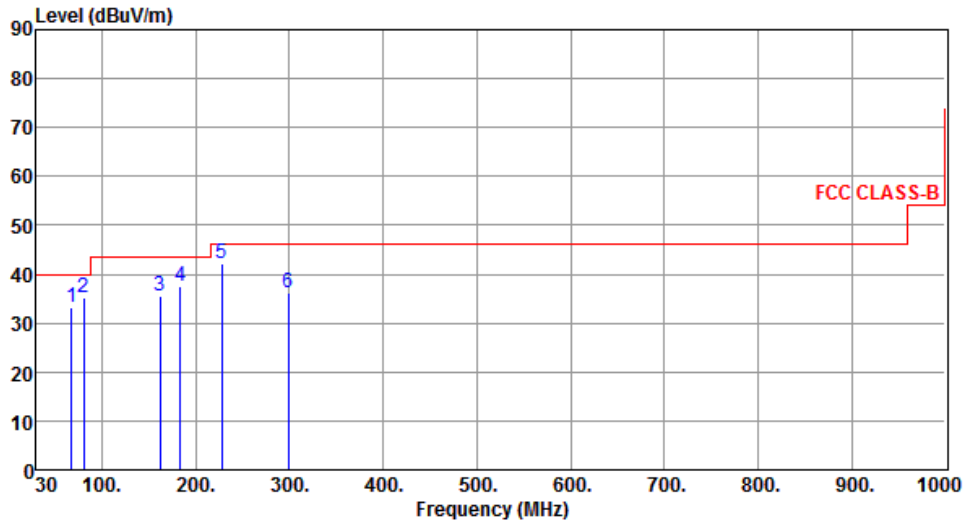


**Configuration 1: Wi-Fi point-to-point**

**3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)**

**BW(MHz): 5MHz**

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11n        | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Horizontal |                         |      |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 67.83        | 33.25                       | 40.00           | -6.75        | 43.57                 | -10.32       | Peak   | ---               | ---                  |
| 2 | 80.44        | 35.31                       | 40.00           | -4.69        | 48.78                 | -13.47       | Peak   | ---               | ---                  |
| 3 | 161.92       | 35.38                       | 43.50           | -8.12        | 44.18                 | -8.80        | Peak   | ---               | ---                  |
| 4 | 183.26       | 37.59                       | 43.50           | -5.91        | 48.21                 | -10.62       | Peak   | ---               | ---                  |
| 5 | 227.88       | 42.28                       | 46.00           | -3.72        | 54.23                 | -11.95       | Peak   | ---               | ---                  |
| 6 | 298.69       | 36.17                       | 46.00           | -9.83        | 44.67                 | -8.50        | Peak   | ---               | ---                  |

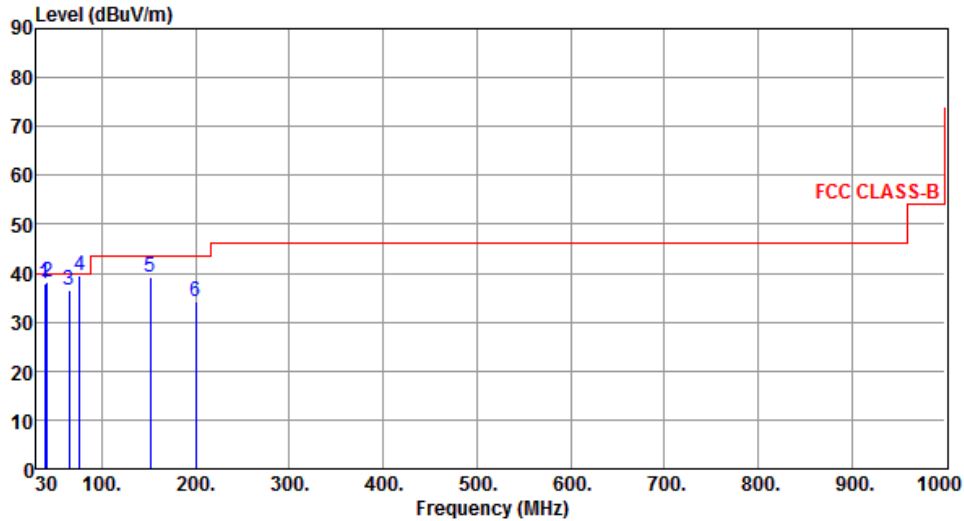
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11n      | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Vertical |                         |      |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 38.94        | 38.01                       | 40.00           | -1.99        | 47.40                 | -9.39        | QP     | 100               | 98                   |
| 2 | 41.62        | 38.08                       | 40.00           | -1.92        | 47.21                 | -9.13        | QP     | 100               | 109                  |
| 3 | 64.92        | 36.61                       | 40.00           | -3.39        | 46.53                 | -9.92        | Peak   | ---               | ---                  |
| 4 | 76.56        | 39.50                       | 40.00           | -0.50        | 52.01                 | -12.51       | QP     | 100               | 202                  |
| 5 | 151.25       | 39.03                       | 43.50           | -4.47        | 47.75                 | -8.72        | Peak   | ---               | ---                  |
| 6 | 199.75       | 34.19                       | 43.50           | -9.31        | 46.21                 | -12.02       | Peak   | ---               | ---                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

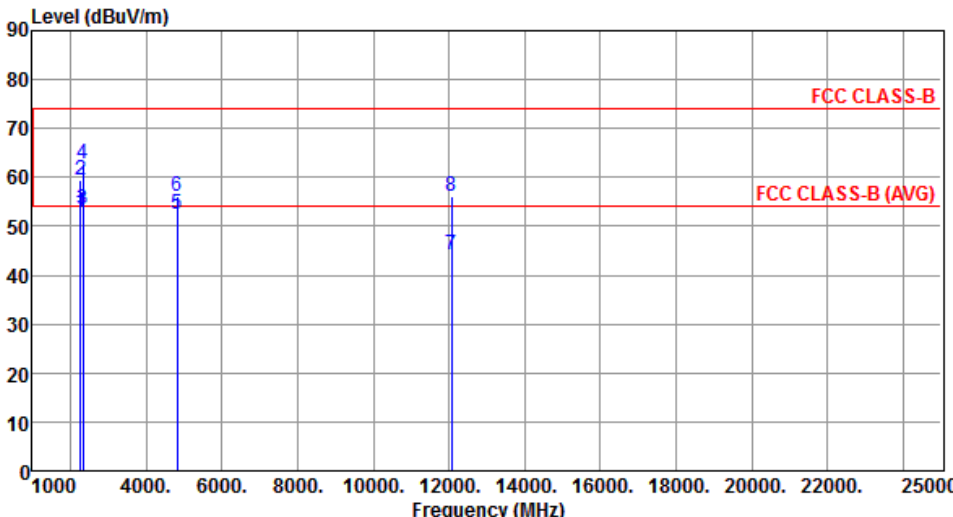
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

**BW(MHz): 5MHz**

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Horizontal |                         |      |

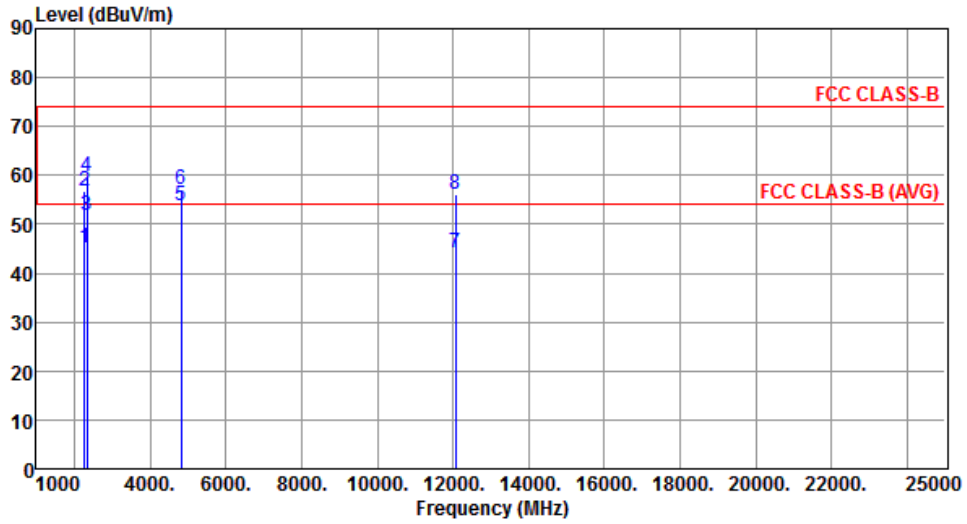
  


|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 52.81                       | 54.00           | -1.19        | 53.60                 | -0.79        | Average | 211               | 185                  |
| 2 | 2280.00      | 59.56                       | 74.00           | -14.44       | 60.35                 | -0.79        | Peak    | 211               | 185                  |
| 3 | 2332.00      | 53.53                       | 54.00           | -0.47        | 54.34                 | -0.81        | Average | 211               | 185                  |
| 4 | 2332.00      | 62.90                       | 74.00           | -11.10       | 63.71                 | -0.81        | Peak    | 211               | 185                  |
| 5 | 4824.00      | 52.48                       | 54.00           | -1.52        | 47.61                 | 4.87         | Average | 211               | 339                  |
| 6 | 4824.00      | 56.27                       | 74.00           | -17.73       | 51.40                 | 4.87         | Peak    | 211               | 339                  |
| 7 | 12060.00     | 44.04                       | 54.00           | -9.96        | 29.12                 | 14.92        | Average | 100               | 30                   |
| 8 | 12060.00     | 56.21                       | 74.00           | -17.79       | 41.29                 | 14.92        | Peak    | 100               | 30                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Vertical |                         |      |



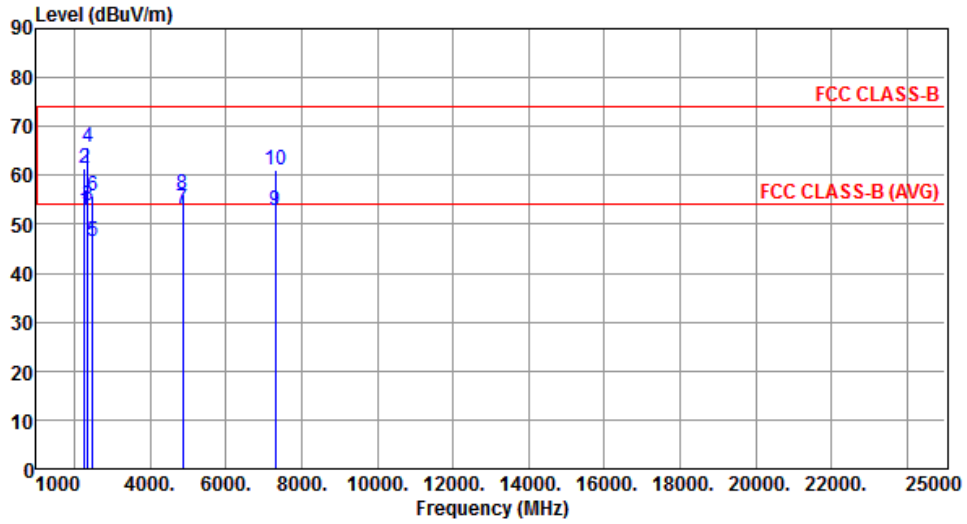
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 45.06                       | 54.00           | -8.94        | 45.85                 | -0.79        | Average | 156               | 183                  |
| 2 | 2280.00      | 56.69                       | 74.00           | -17.31       | 57.48                 | -0.79        | Peak    | 156               | 183                  |
| 3 | 2332.00      | 51.65                       | 54.00           | -2.35        | 52.46                 | -0.81        | Average | 156               | 183                  |
| 4 | 2332.00      | 59.75                       | 74.00           | -14.25       | 60.56                 | -0.81        | Peak    | 156               | 183                  |
| 5 | 4824.00      | 53.65                       | 54.00           | -0.35        | 48.78                 | 4.87         | Average | 100               | 351                  |
| 6 | 4824.00      | 57.23                       | 74.00           | -16.77       | 52.36                 | 4.87         | Peak    | 100               | 351                  |
| 7 | 12060.00     | 44.08                       | 54.00           | -9.92        | 29.16                 | 14.92        | Average | 100               | 40                   |
| 8 | 12060.00     | 56.20                       | 74.00           | -17.80       | 41.28                 | 14.92        | Peak    | 100               | 40                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Horizontal |                         |      |



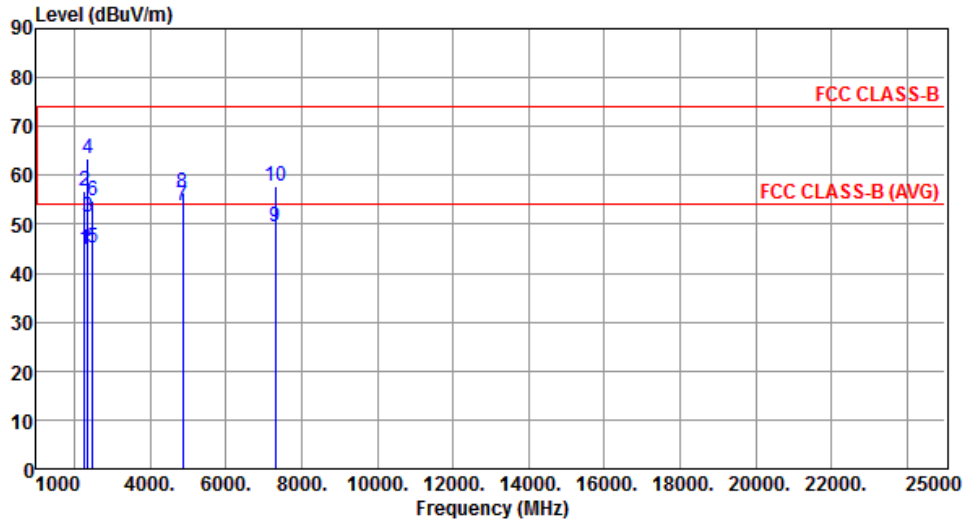
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 52.80                       | 54.00           | -1.20        | 53.59                 | -0.79        | Average | 160               | 185                  |
| 2  | 2280.00      | 61.32                       | 74.00           | -12.68       | 62.11                 | -0.79        | Peak    | 160               | 185                  |
| 3  | 2357.00      | 53.64                       | 54.00           | -0.36        | 54.52                 | -0.88        | Average | 160               | 185                  |
| 4  | 2357.00      | 65.71                       | 74.00           | -8.29        | 66.59                 | -0.88        | Peak    | 160               | 185                  |
| 5  | 2483.50      | 46.34                       | 54.00           | -7.66        | 47.46                 | -1.12        | Average | 160               | 185                  |
| 6  | 2483.50      | 55.80                       | 74.00           | -18.20       | 56.92                 | -1.12        | Peak    | 160               | 185                  |
| 7  | 4874.00      | 53.12                       | 54.00           | -0.88        | 48.21                 | 4.91         | Average | 201               | 325                  |
| 8  | 4874.00      | 56.19                       | 74.00           | -17.81       | 51.28                 | 4.91         | Peak    | 201               | 325                  |
| 9  | 7311.00      | 52.78                       | 54.00           | -1.22        | 42.43                 | 10.35        | Average | 223               | 63                   |
| 10 | 7311.00      | 60.96                       | 74.00           | -13.04       | 50.61                 | 10.35        | Peak    | 223               | 63                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Vertical |                         |      |



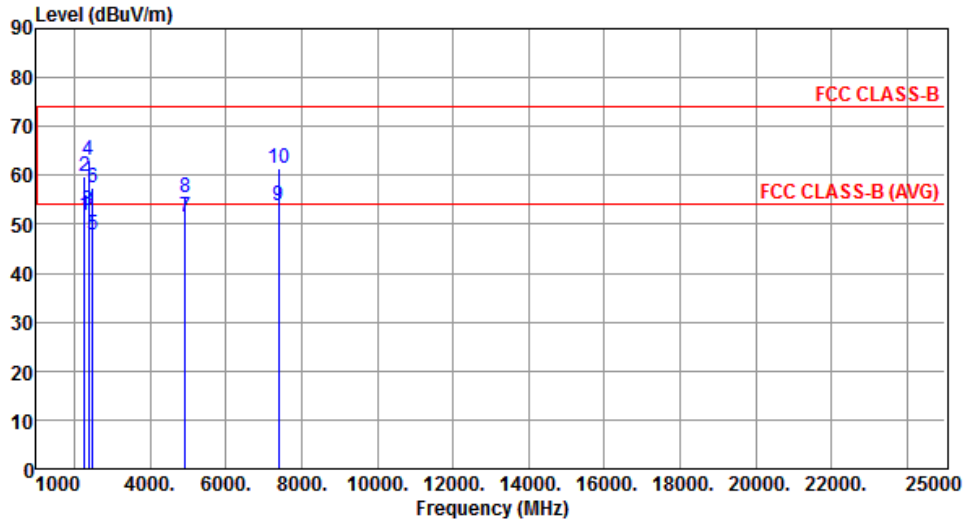
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 44.71                       | 54.00           | -9.29        | 45.50                 | -0.79        | Average | 155               | 182                  |
| 2  | 2280.00      | 56.62                       | 74.00           | -17.38       | 57.41                 | -0.79        | Peak    | 155               | 182                  |
| 3  | 2357.00      | 51.44                       | 54.00           | -2.56        | 52.32                 | -0.88        | Average | 155               | 182                  |
| 4  | 2357.00      | 63.55                       | 74.00           | -10.45       | 64.43                 | -0.88        | Peak    | 155               | 182                  |
| 5  | 2483.50      | 45.33                       | 54.00           | -8.67        | 46.45                 | -1.12        | Average | 155               | 182                  |
| 6  | 2483.50      | 54.69                       | 74.00           | -19.31       | 55.81                 | -1.12        | Peak    | 155               | 182                  |
| 7  | 4874.00      | 53.69                       | 54.00           | -0.31        | 48.78                 | 4.91         | Average | 100               | 10                   |
| 8  | 4874.00      | 56.36                       | 74.00           | -17.64       | 51.45                 | 4.91         | Peak    | 100               | 10                   |
| 9  | 7311.00      | 49.57                       | 54.00           | -4.43        | 39.22                 | 10.35        | Average | 135               | 2                    |
| 10 | 7311.00      | 57.78                       | 74.00           | -16.22       | 47.43                 | 10.35        | Peak    | 135               | 2                    |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Horizontal |                         |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 51.94                       | 54.00           | -2.06        | 52.73                 | -0.79        | Average | 189               | 185                  |
| 2  | 2280.00      | 59.74                       | 74.00           | -14.26       | 60.53                 | -0.79        | Peak    | 189               | 185                  |
| 3  | 2382.00      | 52.65                       | 54.00           | -1.35        | 53.59                 | -0.94        | Average | 189               | 185                  |
| 4  | 2382.00      | 63.01                       | 74.00           | -10.99       | 63.95                 | -0.94        | Peak    | 189               | 185                  |
| 5  | 2483.50      | 47.92                       | 54.00           | -6.08        | 49.04                 | -1.12        | Average | 189               | 185                  |
| 6  | 2483.50      | 57.37                       | 74.00           | -16.63       | 58.49                 | -1.12        | Peak    | 189               | 185                  |
| 7  | 4924.00      | 51.63                       | 54.00           | -2.37        | 46.62                 | 5.01         | Average | 202               | 326                  |
| 8  | 4924.00      | 55.57                       | 74.00           | -18.43       | 50.56                 | 5.01         | Peak    | 202               | 326                  |
| 9  | 7386.00      | 53.80                       | 54.00           | -0.20        | 43.65                 | 10.15        | Average | 187               | 40                   |
| 10 | 7386.00      | 61.42                       | 74.00           | -12.58       | 51.27                 | 10.15        | Peak    | 187               | 40                   |

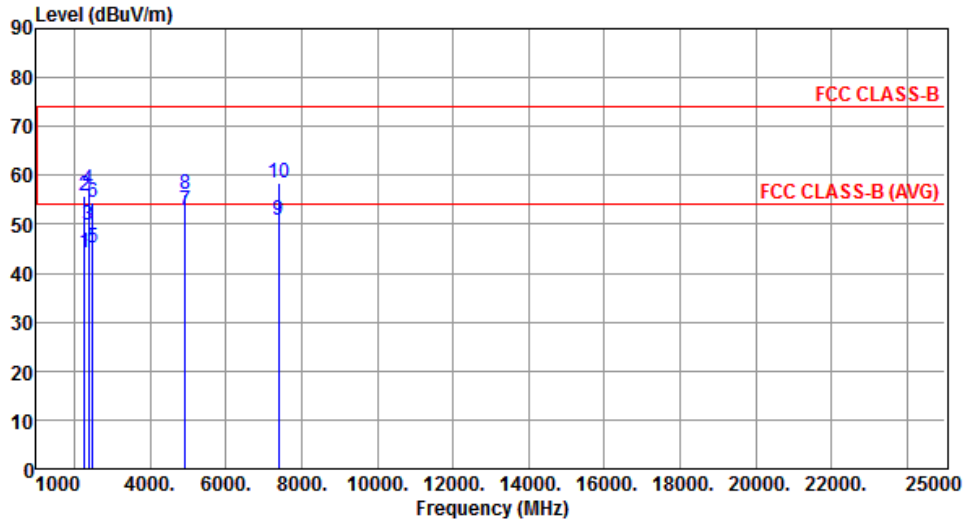
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Vertical |                         |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 44.03                       | 54.00           | -9.97        | 44.82                 | -0.79        | Average | 211               | 185                  |
| 2  | 2280.00      | 55.79                       | 74.00           | -18.21       | 56.58                 | -0.79        | Peak    | 211               | 185                  |
| 3  | 2382.00      | 49.74                       | 54.00           | -4.26        | 50.68                 | -0.94        | Average | 211               | 185                  |
| 4  | 2382.00      | 57.21                       | 74.00           | -16.79       | 58.15                 | -0.94        | Peak    | 211               | 185                  |
| 5  | 2483.50      | 45.23                       | 54.00           | -8.77        | 46.35                 | -1.12        | Average | 211               | 185                  |
| 6  | 2483.50      | 54.57                       | 74.00           | -19.43       | 55.69                 | -1.12        | Peak    | 211               | 185                  |
| 7  | 4924.00      | 52.87                       | 54.00           | -1.13        | 47.86                 | 5.01         | Average | 100               | 3                    |
| 8  | 4924.00      | 56.07                       | 74.00           | -17.93       | 51.06                 | 5.01         | Peak    | 100               | 3                    |
| 9  | 7386.00      | 50.70                       | 54.00           | -3.30        | 40.55                 | 10.15        | Average | 136               | 3                    |
| 10 | 7386.00      | 58.36                       | 74.00           | -15.64       | 48.21                 | 10.15        | Peak    | 136               | 3                    |

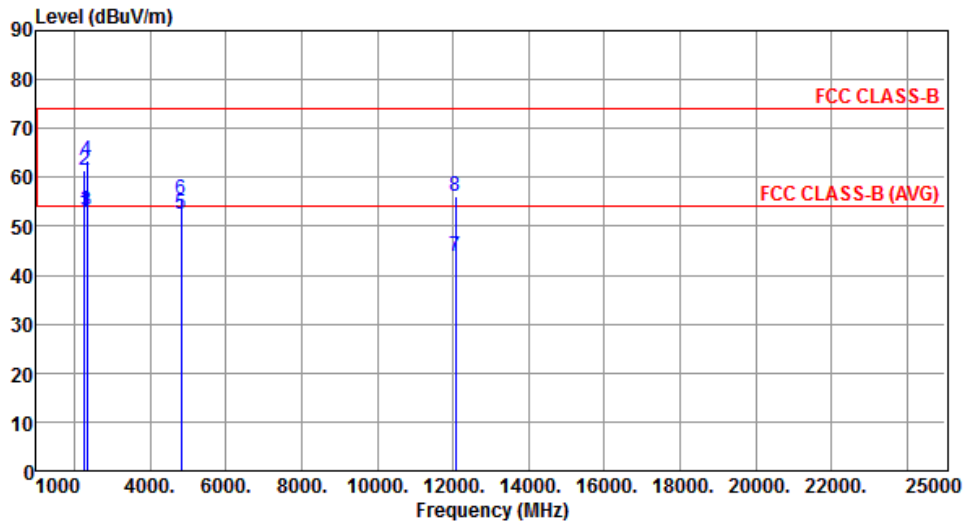
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

**BW(MHz): 8MHz**

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Horizontal |                         |      |



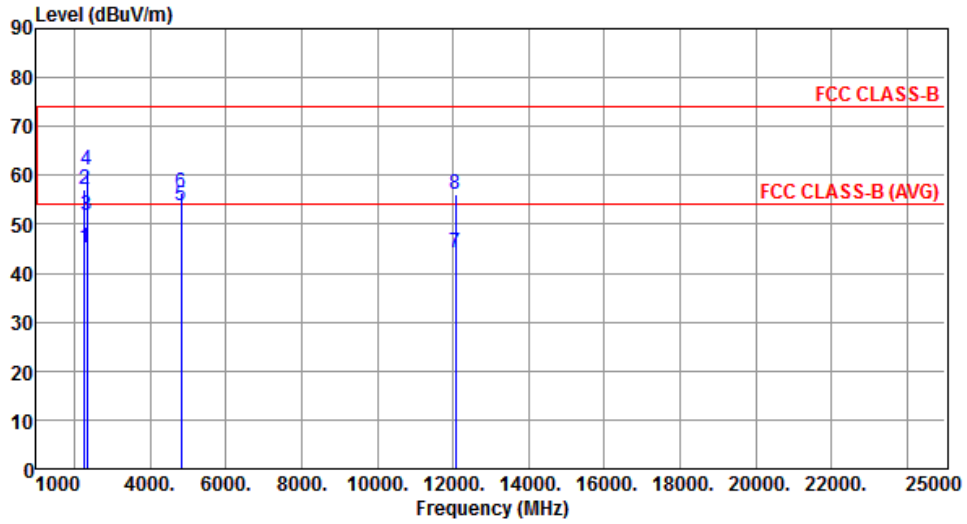
|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 52.76                       | 54.00           | -1.24        | 53.55                 | -0.79        | Average | 124               | 185                  |
| 2 | 2280.00      | 61.29                       | 74.00           | -12.71       | 62.08                 | -0.79        | Peak    | 124               | 185                  |
| 3 | 2340.00      | 53.23                       | 54.00           | -0.77        | 54.06                 | -0.83        | Average | 124               | 185                  |
| 4 | 2340.00      | 63.38                       | 74.00           | -10.62       | 64.21                 | -0.83        | Peak    | 124               | 185                  |
| 5 | 4824.00      | 52.40                       | 54.00           | -1.60        | 47.53                 | 4.87         | Average | 213               | 339                  |
| 6 | 4824.00      | 55.32                       | 74.00           | -18.68       | 50.45                 | 4.87         | Peak    | 213               | 339                  |
| 7 | 12060.00     | 43.96                       | 54.00           | -10.04       | 29.04                 | 14.92        | Average | 100               | 60                   |
| 8 | 12060.00     | 56.14                       | 74.00           | -17.86       | 41.22                 | 14.92        | Peak    | 100               | 60                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Vertical |                         |      |



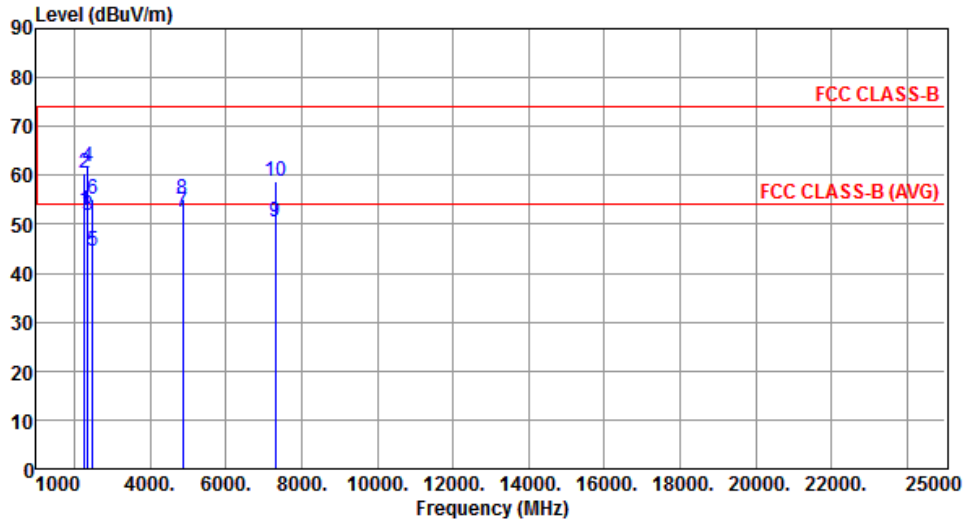
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 45.04                       | 54.00           | -8.96        | 45.83                 | -0.79        | Average | 124               | 185                  |
| 2 | 2280.00      | 56.99                       | 74.00           | -17.01       | 57.78                 | -0.79        | Peak    | 124               | 185                  |
| 3 | 2340.00      | 51.97                       | 54.00           | -2.03        | 52.80                 | -0.83        | Average | 124               | 185                  |
| 4 | 2340.00      | 60.99                       | 74.00           | -13.01       | 61.82                 | -0.83        | Peak    | 124               | 185                  |
| 5 | 4824.00      | 53.76                       | 54.00           | -0.24        | 48.89                 | 4.87         | Average | 100               | 356                  |
| 6 | 4824.00      | 56.43                       | 74.00           | -17.57       | 51.56                 | 4.87         | Peak    | 100               | 356                  |
| 7 | 12060.00     | 44.04                       | 54.00           | -9.96        | 29.12                 | 14.92        | Average | 100               | 80                   |
| 8 | 12060.00     | 56.24                       | 74.00           | -17.76       | 41.32                 | 14.92        | Peak    | 100               | 80                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Horizontal |                         |      |



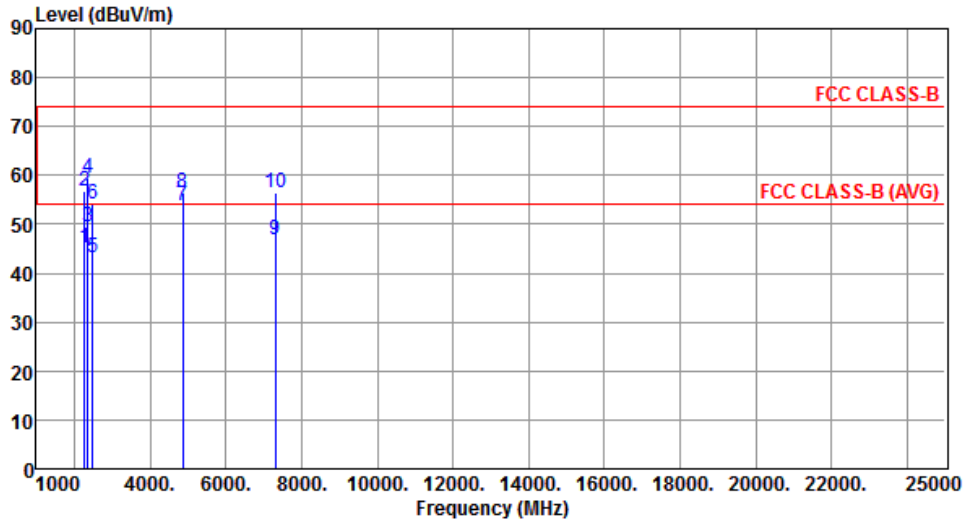
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 52.91                       | 54.00           | -1.09        | 53.70                 | -0.79        | Average | 160               | 188                  |
| 2  | 2280.00      | 60.53                       | 74.00           | -13.47       | 61.32                 | -0.79        | Peak    | 160               | 188                  |
| 3  | 2367.00      | 51.89                       | 54.00           | -2.11        | 52.79                 | -0.90        | Average | 160               | 188                  |
| 4  | 2367.00      | 61.89                       | 74.00           | -12.11       | 62.79                 | -0.90        | Peak    | 160               | 188                  |
| 5  | 2483.50      | 44.34                       | 54.00           | -9.66        | 45.46                 | -1.12        | Average | 160               | 188                  |
| 6  | 2483.50      | 55.28                       | 74.00           | -18.72       | 56.40                 | -1.12        | Peak    | 160               | 188                  |
| 7  | 4874.00      | 52.54                       | 54.00           | -1.46        | 47.63                 | 4.91         | Average | 187               | 343                  |
| 8  | 4874.00      | 55.23                       | 74.00           | -18.77       | 50.32                 | 4.91         | Peak    | 187               | 343                  |
| 9  | 7311.00      | 50.37                       | 54.00           | -3.63        | 40.02                 | 10.35        | Average | 218               | 66                   |
| 10 | 7311.00      | 58.73                       | 74.00           | -15.27       | 48.38                 | 10.35        | Peak    | 218               | 66                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Vertical |                         |      |



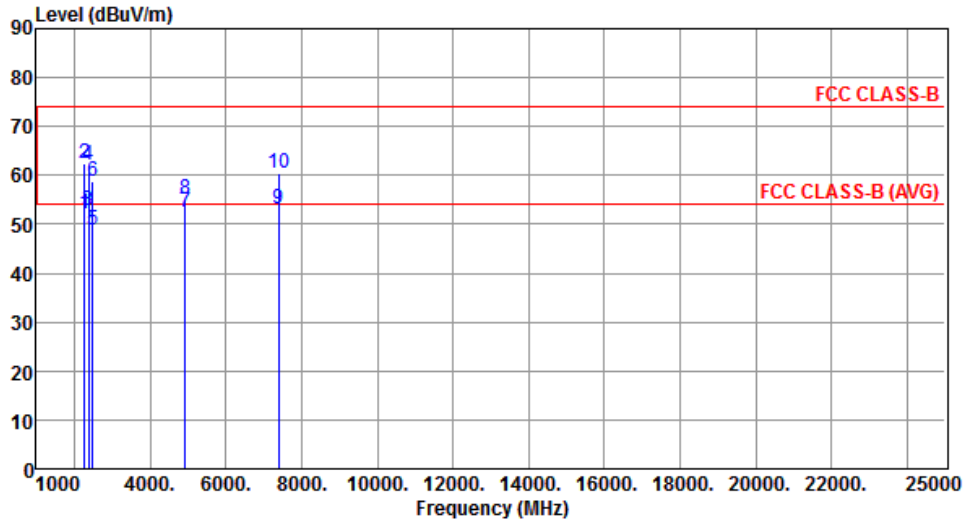
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 45.06                       | 54.00           | -8.94        | 45.85                 | -0.79        | Average | 155               | 181                  |
| 2  | 2280.00      | 56.81                       | 74.00           | -17.19       | 57.60                 | -0.79        | Peak    | 155               | 181                  |
| 3  | 2367.00      | 49.55                       | 54.00           | -4.45        | 50.45                 | -0.90        | Average | 155               | 181                  |
| 4  | 2367.00      | 59.46                       | 74.00           | -14.54       | 60.36                 | -0.90        | Peak    | 155               | 181                  |
| 5  | 2483.50      | 43.20                       | 54.00           | -10.80       | 44.32                 | -1.12        | Average | 155               | 181                  |
| 6  | 2483.50      | 54.27                       | 74.00           | -19.73       | 55.39                 | -1.12        | Peak    | 155               | 181                  |
| 7  | 4874.00      | 53.66                       | 54.00           | -0.34        | 48.75                 | 4.91         | Average | 131               | 352                  |
| 8  | 4874.00      | 56.36                       | 74.00           | -17.64       | 51.45                 | 4.91         | Peak    | 131               | 352                  |
| 9  | 7311.00      | 46.75                       | 54.00           | -7.25        | 36.40                 | 10.35        | Average | 110               | 332                  |
| 10 | 7311.00      | 56.36                       | 74.00           | -17.64       | 46.01                 | 10.35        | Peak    | 110               | 332                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Horizontal |                         |      |



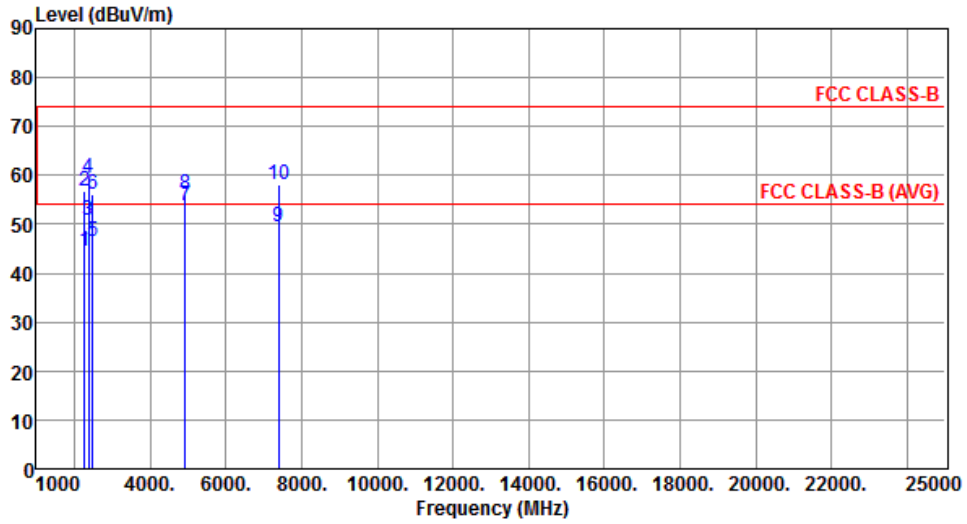
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 52.27                       | 54.00           | -1.73        | 53.06                 | -0.79        | Average | 211               | 185                  |
| 2  | 2280.00      | 62.32                       | 74.00           | -11.68       | 63.11                 | -0.79        | Peak    | 211               | 185                  |
| 3  | 2382.00      | 52.91                       | 54.00           | -1.09        | 53.85                 | -0.94        | Average | 211               | 185                  |
| 4  | 2382.00      | 62.06                       | 74.00           | -11.94       | 63.00                 | -0.94        | Peak    | 211               | 185                  |
| 5  | 2483.50      | 48.88                       | 54.00           | -5.12        | 50.00                 | -1.12        | Average | 211               | 185                  |
| 6  | 2483.50      | 58.66                       | 74.00           | -15.34       | 59.78                 | -1.12        | Peak    | 211               | 185                  |
| 7  | 4924.00      | 52.42                       | 54.00           | -1.58        | 47.41                 | 5.01         | Average | 185               | 346                  |
| 8  | 4924.00      | 55.29                       | 74.00           | -18.71       | 50.28                 | 5.01         | Peak    | 185               | 346                  |
| 9  | 7386.00      | 53.04                       | 54.00           | -0.96        | 42.89                 | 10.15        | Average | 167               | 40                   |
| 10 | 7386.00      | 60.38                       | 74.00           | -13.62       | 50.23                 | 10.15        | Peak    | 167               | 40                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Vertical |                         |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 44.56                       | 54.00           | -9.44        | 45.35                 | -0.79        | Average | 184               | 186                  |
| 2  | 2280.00      | 56.69                       | 74.00           | -17.31       | 57.48                 | -0.79        | Peak    | 184               | 186                  |
| 3  | 2382.00      | 50.73                       | 54.00           | -3.27        | 51.67                 | -0.94        | Average | 184               | 186                  |
| 4  | 2382.00      | 59.59                       | 74.00           | -14.41       | 60.53                 | -0.94        | Peak    | 184               | 186                  |
| 5  | 2483.50      | 46.53                       | 54.00           | -7.47        | 47.65                 | -1.12        | Average | 184               | 186                  |
| 6  | 2483.50      | 56.04                       | 74.00           | -17.96       | 57.16                 | -1.12        | Peak    | 184               | 186                  |
| 7  | 4924.00      | 53.70                       | 54.00           | -0.30        | 48.69                 | 5.01         | Average | 100               | 5                    |
| 8  | 4924.00      | 56.22                       | 74.00           | -17.78       | 51.21                 | 5.01         | Peak    | 100               | 5                    |
| 9  | 7386.00      | 49.60                       | 54.00           | -4.40        | 39.45                 | 10.15        | Average | 115               | 333                  |
| 10 | 7386.00      | 58.27                       | 74.00           | -15.73       | 48.12                 | 10.15        | Peak    | 115               | 333                  |

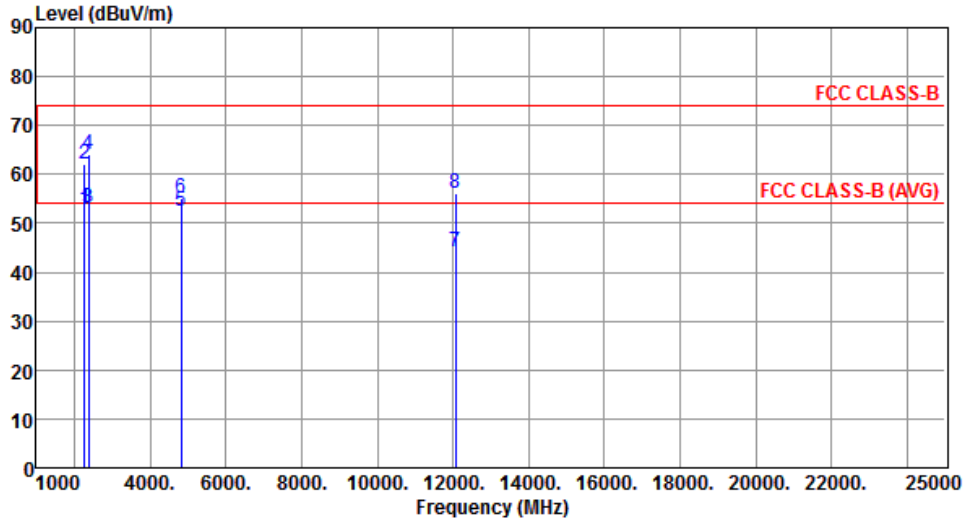
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

**BW(MHz): 10MHz**

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Horizontal |                         |      |



|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 52.78                       | 54.00           | -1.22        | 53.57                 | -0.79        | Average | 183               | 174                  |
| 2 | 2280.00      | 61.94                       | 74.00           | -12.06       | 62.73                 | -0.79        | Peak    | 183               | 174                  |
| 3 | 2390.00      | 53.24                       | 54.00           | -0.76        | 54.20                 | -0.96        | Average | 183               | 174                  |
| 4 | 2390.00      | 64.07                       | 74.00           | -9.93        | 65.03                 | -0.96        | Peak    | 183               | 174                  |
| 5 | 4824.00      | 52.47                       | 54.00           | -1.53        | 47.60                 | 4.87         | Average | 216               | 333                  |
| 6 | 4824.00      | 55.22                       | 74.00           | -18.78       | 50.35                 | 4.87         | Peak    | 216               | 333                  |
| 7 | 12060.00     | 44.05                       | 54.00           | -9.95        | 29.13                 | 14.92        | Average | 100               | 50                   |
| 8 | 12060.00     | 56.18                       | 74.00           | -17.82       | 41.26                 | 14.92        | Peak    | 100               | 50                   |

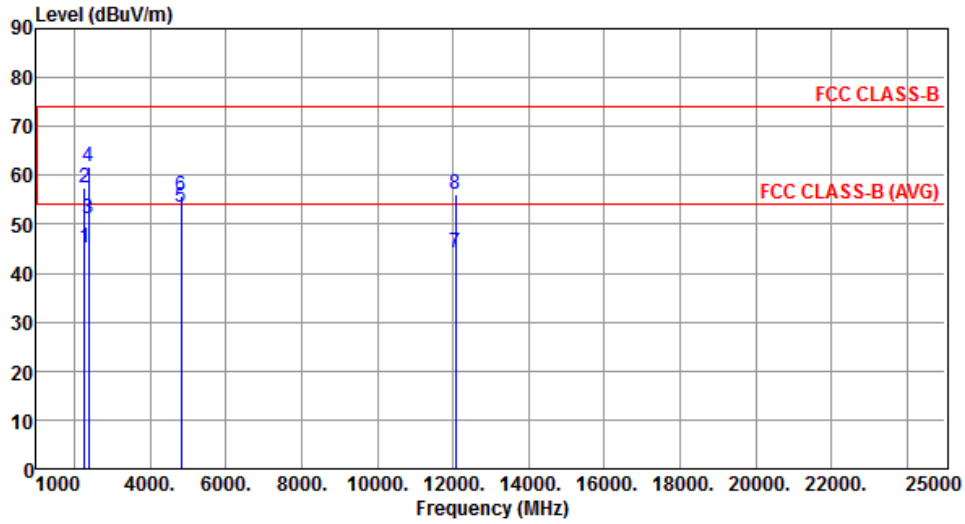
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Vertical |                         |      |



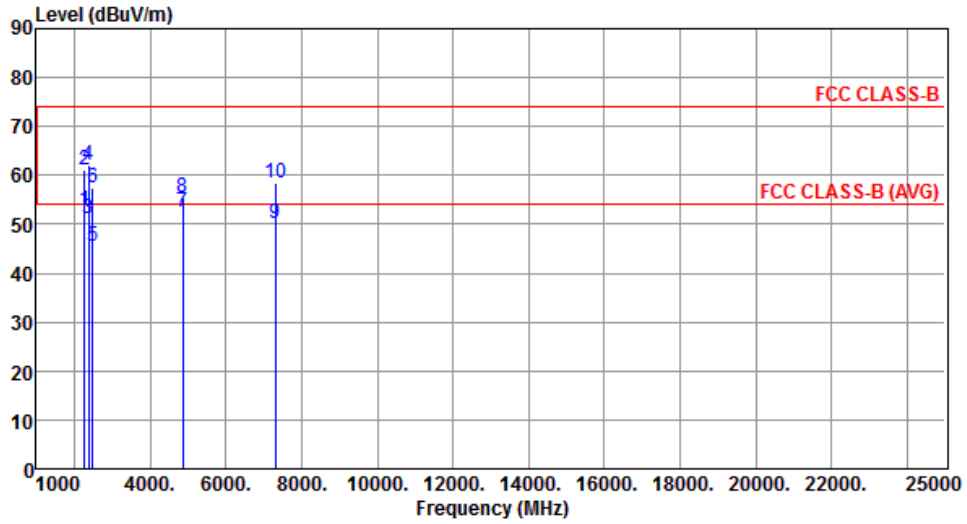
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 45.13                       | 54.00           | -8.87        | 45.92                 | -0.79        | Average | 124               | 185                  |
| 2 | 2280.00      | 57.43                       | 74.00           | -16.57       | 58.22                 | -0.79        | Peak    | 124               | 185                  |
| 3 | 2390.00      | 51.02                       | 54.00           | -2.98        | 51.98                 | -0.96        | Average | 124               | 185                  |
| 4 | 2390.00      | 61.91                       | 74.00           | -12.09       | 62.87                 | -0.96        | Peak    | 124               | 185                  |
| 5 | 4824.00      | 53.61                       | 54.00           | -0.39        | 48.74                 | 4.87         | Average | 100               | 2                    |
| 6 | 4824.00      | 55.93                       | 74.00           | -18.07       | 51.06                 | 4.87         | Peak    | 100               | 2                    |
| 7 | 12060.00     | 44.06                       | 54.00           | -9.94        | 29.14                 | 14.92        | Average | 100               | 70                   |
| 8 | 12060.00     | 56.17                       | 74.00           | -17.83       | 41.25                 | 14.92        | Peak    | 100               | 70                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Horizontal |                         |      |



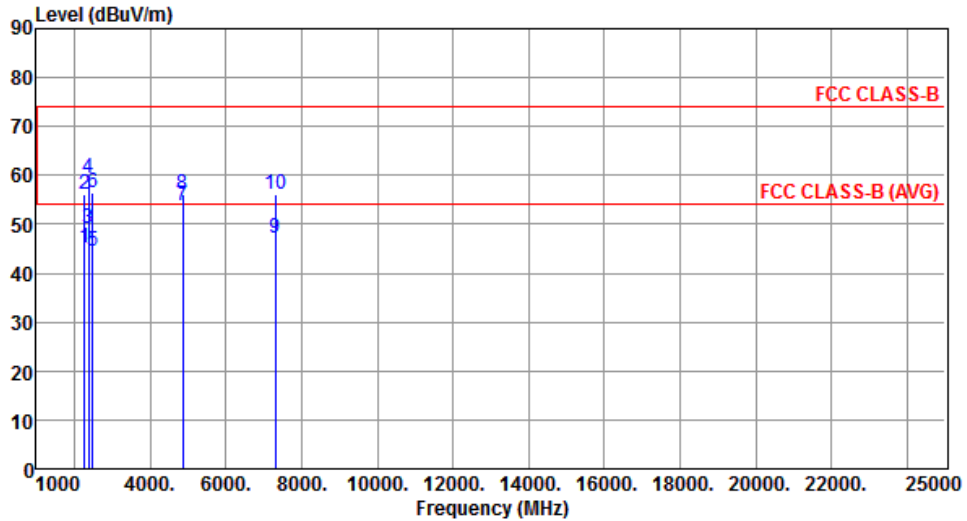
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 52.71                       | 54.00           | -1.29        | 53.50                 | -0.79        | Average | 172               | 179                  |
| 2  | 2280.00      | 60.99                       | 74.00           | -13.01       | 61.78                 | -0.79        | Peak    | 172               | 179                  |
| 3  | 2390.00      | 51.21                       | 54.00           | -2.79        | 52.17                 | -0.96        | Average | 172               | 179                  |
| 4  | 2390.00      | 62.25                       | 74.00           | -11.75       | 63.21                 | -0.96        | Peak    | 172               | 179                  |
| 5  | 2483.50      | 45.50                       | 54.00           | -8.50        | 46.62                 | -1.12        | Average | 172               | 179                  |
| 6  | 2483.50      | 57.53                       | 74.00           | -16.47       | 58.65                 | -1.12        | Peak    | 172               | 179                  |
| 7  | 4874.00      | 52.59                       | 54.00           | -1.41        | 47.68                 | 4.91         | Average | 182               | 349                  |
| 8  | 4874.00      | 55.36                       | 74.00           | -18.64       | 50.45                 | 4.91         | Peak    | 182               | 349                  |
| 9  | 7311.00      | 50.31                       | 54.00           | -3.69        | 39.96                 | 10.35        | Average | 215               | 60                   |
| 10 | 7311.00      | 58.60                       | 74.00           | -15.40       | 48.25                 | 10.35        | Peak    | 215               | 60                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Vertical |                         |      |



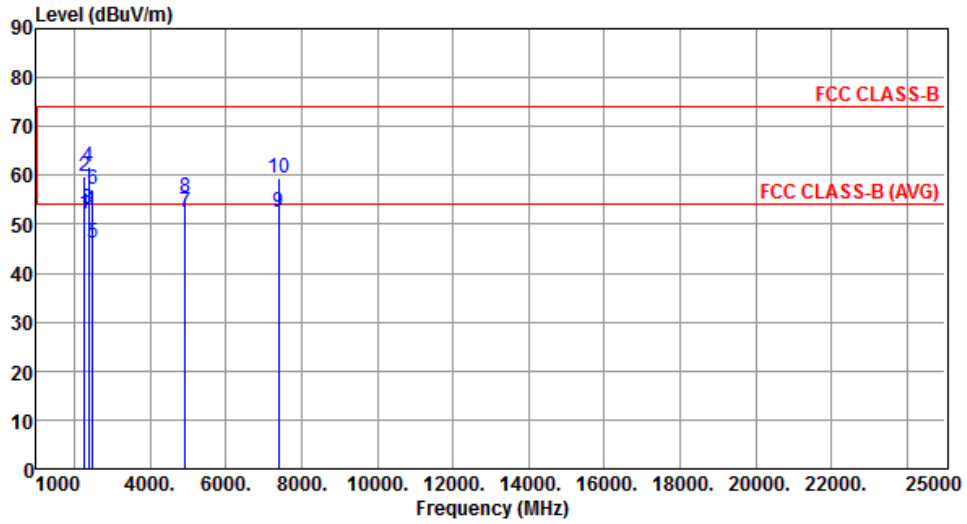
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 45.09                       | 54.00           | -8.91        | 45.88                 | -0.79        | Average | 166               | 182                  |
| 2  | 2280.00      | 56.06                       | 74.00           | -17.94       | 56.85                 | -0.79        | Peak    | 166               | 182                  |
| 3  | 2390.00      | 49.06                       | 54.00           | -4.94        | 50.02                 | -0.96        | Average | 166               | 182                  |
| 4  | 2390.00      | 59.33                       | 74.00           | -14.67       | 60.29                 | -0.96        | Peak    | 166               | 182                  |
| 5  | 2483.50      | 44.47                       | 54.00           | -9.53        | 45.59                 | -1.12        | Average | 166               | 182                  |
| 6  | 2483.50      | 56.37                       | 74.00           | -17.63       | 57.49                 | -1.12        | Peak    | 166               | 182                  |
| 7  | 4874.00      | 53.70                       | 54.00           | -0.30        | 48.79                 | 4.91         | Average | 100               | 4                    |
| 8  | 4874.00      | 56.15                       | 74.00           | -17.85       | 51.24                 | 4.91         | Peak    | 100               | 4                    |
| 9  | 7311.00      | 47.25                       | 54.00           | -6.75        | 36.90                 | 10.35        | Average | 110               | 334                  |
| 10 | 7311.00      | 56.28                       | 74.00           | -17.72       | 45.93                 | 10.35        | Peak    | 110               | 334                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Horizontal |                         |      |



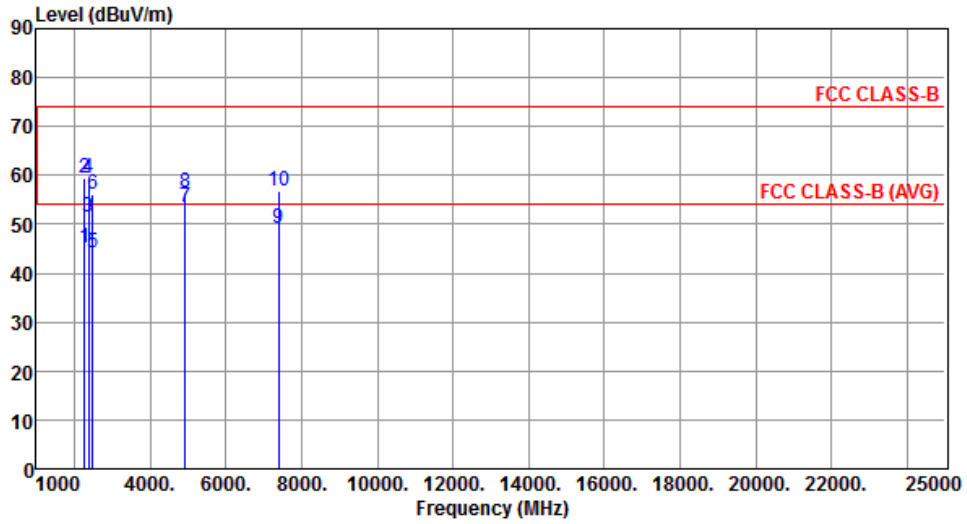
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 52.16                       | 54.00           | -1.84        | 52.95                 | -0.79        | Average | 123               | 185                  |
| 2  | 2280.00      | 59.76                       | 74.00           | -14.24       | 60.55                 | -0.79        | Peak    | 123               | 185                  |
| 3  | 2382.00      | 53.16                       | 54.00           | -0.84        | 54.10                 | -0.94        | Average | 123               | 185                  |
| 4  | 2382.00      | 61.61                       | 74.00           | -12.39       | 62.55                 | -0.94        | Peak    | 123               | 185                  |
| 5  | 2483.50      | 46.30                       | 54.00           | -7.70        | 47.42                 | -1.12        | Average | 123               | 185                  |
| 6  | 2483.50      | 57.02                       | 74.00           | -16.98       | 58.14                 | -1.12        | Peak    | 123               | 185                  |
| 7  | 4924.00      | 52.33                       | 54.00           | -1.67        | 47.32                 | 5.01         | Average | 186               | 345                  |
| 8  | 4924.00      | 55.62                       | 74.00           | -18.38       | 50.61                 | 5.01         | Peak    | 186               | 345                  |
| 9  | 7386.00      | 52.43                       | 54.00           | -1.57        | 42.28                 | 10.15        | Average | 185               | 46                   |
| 10 | 7386.00      | 59.41                       | 74.00           | -14.59       | 49.26                 | 10.15        | Peak    | 185               | 46                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Vertical |                         |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 45.06                       | 54.00           | -8.94        | 45.85                 | -0.79        | Average | 176               | 182                  |
| 2  | 2280.00      | 59.48                       | 74.00           | -14.52       | 60.27                 | -0.79        | Peak    | 176               | 182                  |
| 3  | 2382.00      | 51.52                       | 54.00           | -2.48        | 52.46                 | -0.94        | Average | 176               | 182                  |
| 4  | 2382.00      | 59.55                       | 74.00           | -14.45       | 60.49                 | -0.94        | Peak    | 176               | 182                  |
| 5  | 2483.50      | 44.27                       | 54.00           | -9.73        | 45.39                 | -1.12        | Average | 176               | 182                  |
| 6  | 2483.50      | 56.00                       | 74.00           | -18.00       | 57.12                 | -1.12        | Peak    | 176               | 182                  |
| 7  | 4924.00      | 53.56                       | 54.00           | -0.44        | 48.55                 | 5.01         | Average | 100               | 6                    |
| 8  | 4924.00      | 56.50                       | 74.00           | -17.50       | 51.49                 | 5.01         | Peak    | 100               | 6                    |
| 9  | 7386.00      | 49.28                       | 54.00           | -4.72        | 39.13                 | 10.15        | Average | 111               | 336                  |
| 10 | 7386.00      | 56.74                       | 74.00           | -17.26       | 46.59                 | 10.15        | Peak    | 111               | 336                  |

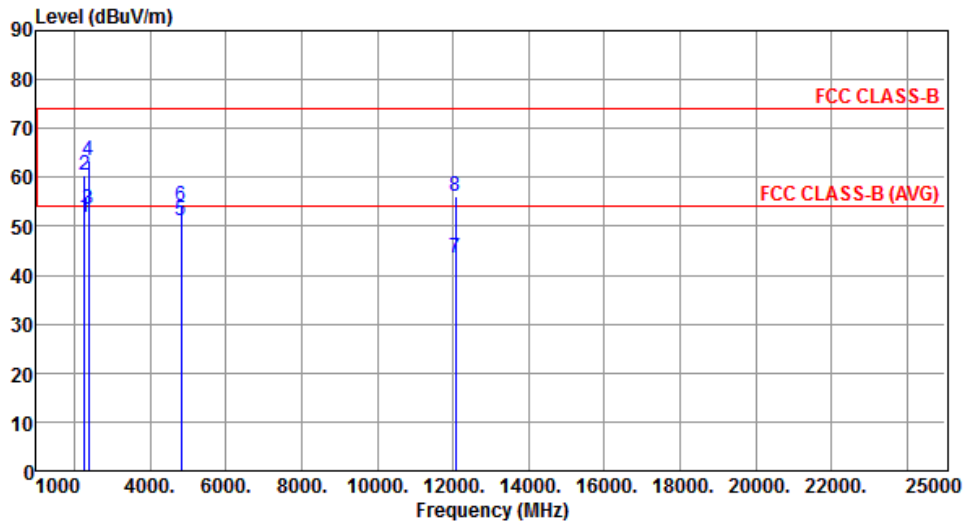
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

**BW(MHz): 20MHz**

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Horizontal |                         |      |



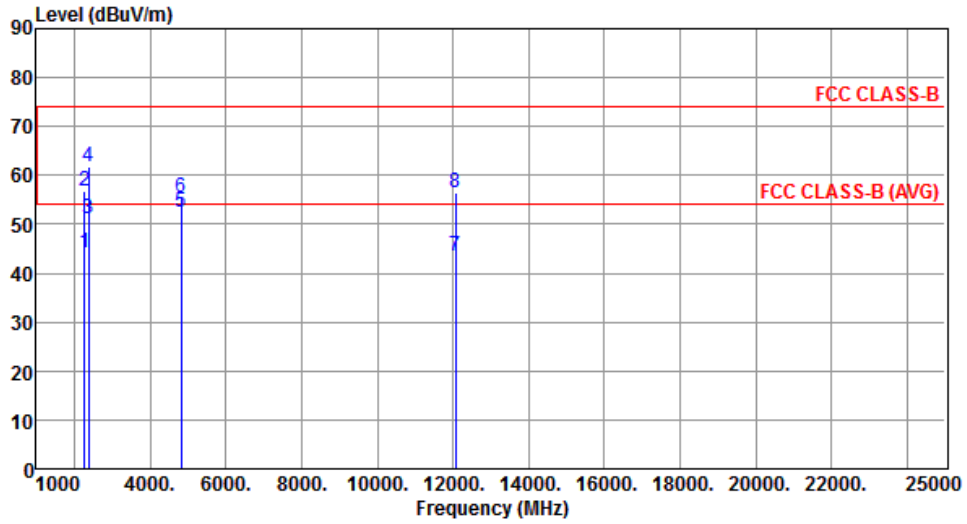
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 51.65                       | 54.00           | -2.35        | 52.44                 | -0.79        | Average | 178               | 183                  |
| 2 | 2280.00      | 60.55                       | 74.00           | -13.45       | 61.34                 | -0.79        | Peak    | 178               | 183                  |
| 3 | 2390.00      | 53.55                       | 54.00           | -0.45        | 54.51                 | -0.96        | Average | 178               | 183                  |
| 4 | 2390.00      | 63.38                       | 74.00           | -10.62       | 64.34                 | -0.96        | Peak    | 178               | 183                  |
| 5 | 4824.00      | 51.11                       | 54.00           | -2.89        | 46.24                 | 4.87         | Average | 210               | 332                  |
| 6 | 4824.00      | 54.27                       | 74.00           | -19.73       | 49.40                 | 4.87         | Peak    | 210               | 332                  |
| 7 | 12060.00     | 43.61                       | 54.00           | -10.39       | 28.69                 | 14.92        | Average | 100               | 50                   |
| 8 | 12060.00     | 56.13                       | 74.00           | -17.87       | 41.21                 | 14.92        | Peak    | 100               | 50                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2412 |
| <b>Polarization</b> | Vertical |                         |      |



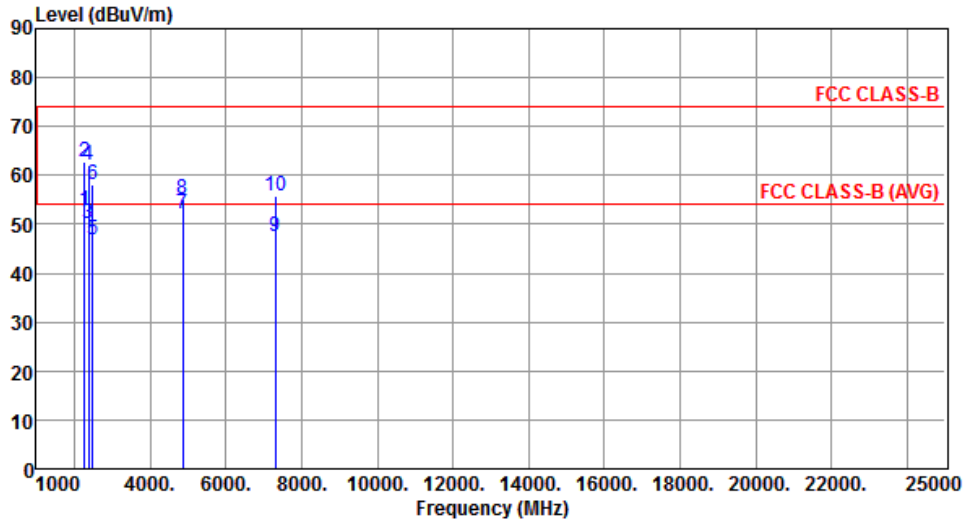
|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1 | 2280.00      | 44.21                       | 54.00           | -9.79        | 45.00                 | -0.79        | Average | 107               | 181                  |
| 2 | 2280.00      | 56.72                       | 74.00           | -17.28       | 57.51                 | -0.79        | Peak    | 107               | 181                  |
| 3 | 2390.00      | 51.10                       | 54.00           | -2.90        | 52.06                 | -0.96        | Average | 107               | 181                  |
| 4 | 2390.00      | 61.62                       | 74.00           | -12.38       | 62.58                 | -0.96        | Peak    | 107               | 181                  |
| 5 | 4824.00      | 52.60                       | 54.00           | -1.40        | 47.73                 | 4.87         | Average | 100               | 5                    |
| 6 | 4824.00      | 55.35                       | 74.00           | -18.65       | 50.48                 | 4.87         | Peak    | 100               | 5                    |
| 7 | 12060.00     | 43.38                       | 54.00           | -10.62       | 28.46                 | 14.92        | Average | 100               | 30                   |
| 8 | 12060.00     | 56.31                       | 74.00           | -17.69       | 41.39                 | 14.92        | Peak    | 100               | 30                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Horizontal |                         |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 52.89                       | 54.00           | -1.11        | 53.68                 | -0.79        | Average | 160               | 181                  |
| 2  | 2280.00      | 62.61                       | 74.00           | -11.39       | 63.40                 | -0.79        | Peak    | 160               | 181                  |
| 3  | 2390.00      | 50.17                       | 54.00           | -3.83        | 51.13                 | -0.96        | Average | 160               | 181                  |
| 4  | 2390.00      | 62.11                       | 74.00           | -11.89       | 63.07                 | -0.96        | Peak    | 160               | 181                  |
| 5  | 2483.50      | 46.72                       | 54.00           | -7.28        | 47.84                 | -1.12        | Average | 160               | 181                  |
| 6  | 2483.50      | 58.22                       | 74.00           | -15.78       | 59.34                 | -1.12        | Peak    | 160               | 181                  |
| 7  | 4874.00      | 52.19                       | 54.00           | -1.81        | 47.28                 | 4.91         | Average | 215               | 332                  |
| 8  | 4874.00      | 55.03                       | 74.00           | -18.97       | 50.12                 | 4.91         | Peak    | 215               | 332                  |
| 9  | 7311.00      | 47.65                       | 54.00           | -6.35        | 37.30                 | 10.35        | Average | 234               | 60                   |
| 10 | 7311.00      | 55.64                       | 74.00           | -18.36       | 45.29                 | 10.35        | Peak    | 234               | 60                   |

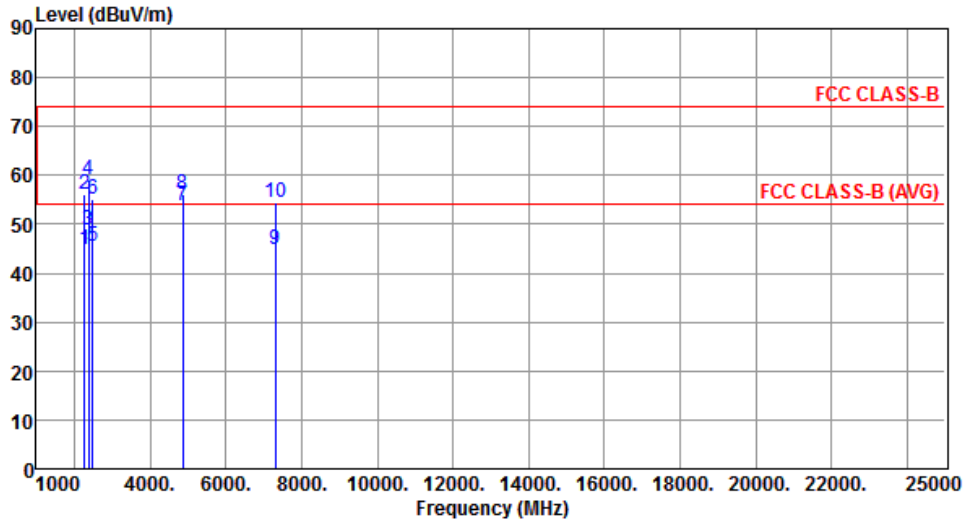
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2437 |
| <b>Polarization</b> | Vertical |                         |      |



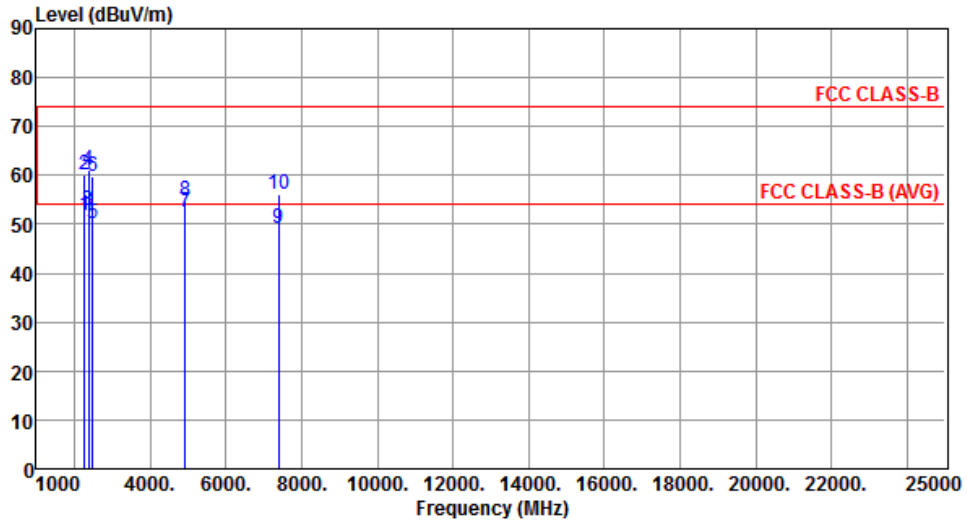
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 44.76                       | 54.00           | -9.24        | 45.55                 | -0.79        | Average | 134               | 181                  |
| 2  | 2280.00      | 56.27                       | 74.00           | -17.73       | 57.06                 | -0.79        | Peak    | 134               | 181                  |
| 3  | 2390.00      | 48.73                       | 54.00           | -5.27        | 49.69                 | -0.96        | Average | 134               | 181                  |
| 4  | 2390.00      | 59.08                       | 74.00           | -14.92       | 60.04                 | -0.96        | Peak    | 134               | 181                  |
| 5  | 2483.50      | 45.61                       | 54.00           | -8.39        | 46.73                 | -1.12        | Average | 134               | 181                  |
| 6  | 2483.50      | 55.27                       | 74.00           | -18.73       | 56.39                 | -1.12        | Peak    | 134               | 181                  |
| 7  | 4874.00      | 53.71                       | 54.00           | -0.29        | 48.80                 | 4.91         | Average | 100               | 2                    |
| 8  | 4874.00      | 56.00                       | 74.00           | -18.00       | 51.09                 | 4.91         | Peak    | 100               | 2                    |
| 9  | 7311.00      | 44.87                       | 54.00           | -9.13        | 34.52                 | 10.35        | Average | 142               | 353                  |
| 10 | 7311.00      | 54.42                       | 74.00           | -19.58       | 44.07                 | 10.35        | Peak    | 142               | 353                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |            |                         |      |
|---------------------|------------|-------------------------|------|
| <b>Modulation</b>   | 11b        | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Horizontal |                         |      |



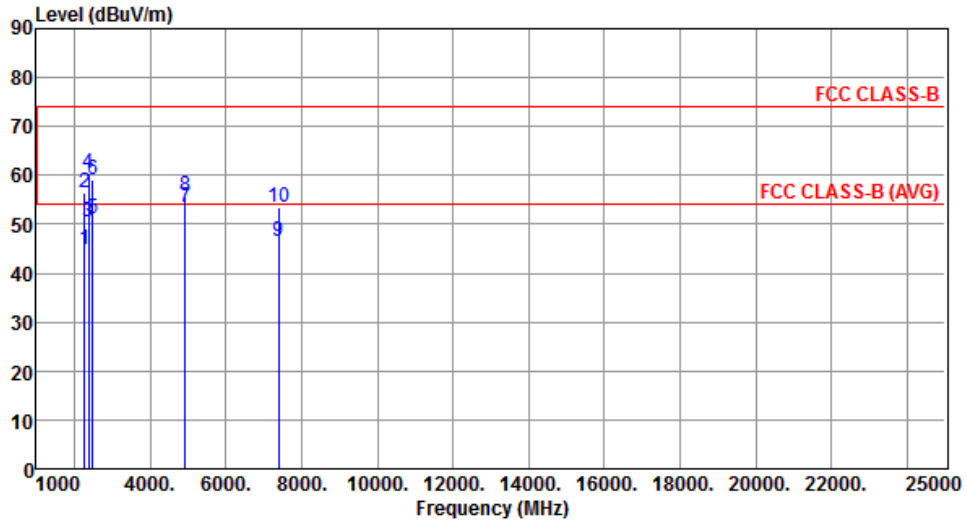
|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 51.66                       | 54.00           | -2.34        | 52.45                 | -0.79        | Average | 176               | 180                  |
| 2  | 2280.00      | 60.00                       | 74.00           | -14.00       | 60.79                 | -0.79        | Peak    | 176               | 180                  |
| 3  | 2382.00      | 52.68                       | 54.00           | -1.32        | 53.62                 | -0.94        | Average | 176               | 180                  |
| 4  | 2382.00      | 61.02                       | 74.00           | -12.98       | 61.96                 | -0.94        | Peak    | 176               | 180                  |
| 5  | 2483.50      | 50.05                       | 54.00           | -3.95        | 51.17                 | -1.12        | Average | 176               | 180                  |
| 6  | 2483.50      | 59.74                       | 74.00           | -14.26       | 60.86                 | -1.12        | Peak    | 176               | 180                  |
| 7  | 4924.00      | 52.42                       | 54.00           | -1.58        | 47.41                 | 5.01         | Average | 216               | 333                  |
| 8  | 4924.00      | 54.64                       | 74.00           | -19.36       | 49.63                 | 5.01         | Peak    | 216               | 333                  |
| 9  | 7386.00      | 49.27                       | 54.00           | -4.73        | 39.12                 | 10.15        | Average | 194               | 41                   |
| 10 | 7386.00      | 56.00                       | 74.00           | -18.00       | 45.85                 | 10.15        | Peak    | 194               | 41                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | 11b      | <b>Test Freq. (MHz)</b> | 2462 |
| <b>Polarization</b> | Vertical |                         |      |



|    | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1  | 2280.00      | 44.87                       | 54.00           | -9.13        | 45.66                 | -0.79        | Average | 169               | 182                  |
| 2  | 2280.00      | 56.51                       | 74.00           | -17.49       | 57.30                 | -0.79        | Peak    | 169               | 182                  |
| 3  | 2382.00      | 50.42                       | 54.00           | -3.58        | 51.36                 | -0.94        | Average | 169               | 182                  |
| 4  | 2382.00      | 60.32                       | 74.00           | -13.68       | 61.26                 | -0.94        | Peak    | 169               | 182                  |
| 5  | 2483.50      | 51.13                       | 54.00           | -2.87        | 52.25                 | -1.12        | Average | 169               | 182                  |
| 6  | 2483.50      | 59.20                       | 74.00           | -14.80       | 60.32                 | -1.12        | Peak    | 169               | 182                  |
| 7  | 4924.00      | 53.57                       | 54.00           | -0.43        | 48.56                 | 5.01         | Average | 184               | 3                    |
| 8  | 4924.00      | 55.71                       | 74.00           | -18.29       | 50.70                 | 5.01         | Peak    | 184               | 3                    |
| 9  | 7386.00      | 46.41                       | 54.00           | -7.59        | 36.26                 | 10.15        | Average | 145               | 355                  |
| 10 | 7386.00      | 53.63                       | 74.00           | -20.37       | 43.48                 | 10.15        | Peak    | 145               | 355                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).