

# FCC Test Report

FCC ID : UIDTG3482P2  
Equipment : Telephony Gateway  
Brand Name : ARRIS  
Model Name : TG3482P2  
Applicant : ARRIS  
3871 Lakefield Drive, #300 Suwanee, GA 30024  
Manufacturer : ARRIS  
3871 Lakefield Drive, #300 Suwanee, GA 30024  
Standard : 47 CFR FCC Part 15.407

This report was evaluated for permissive change. The product was received on Jul. 12, 2018, and testing was started from Jul. 12, 2018 and completed on Jul. 12, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Allen Lin

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

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## Table of Contents

|                                                                   |           |
|-------------------------------------------------------------------|-----------|
| <b>HISTORY OF THIS TEST REPORT .....</b>                          | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                               | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                                | <b>5</b>  |
| 1.1 Information.....                                              | 5         |
| 1.2 Testing Applied Standards .....                               | 9         |
| 1.3 Testing Location Information .....                            | 9         |
| 1.4 Measurement Uncertainty .....                                 | 9         |
| <b>2 TEST CONFIGURATION OF EUT.....</b>                           | <b>10</b> |
| 2.1 Test Condition .....                                          | 10        |
| 2.2 Test Channel Mode .....                                       | 10        |
| 2.3 The Worst Case Measurement Configuration.....                 | 11        |
| 2.4 Accessories .....                                             | 11        |
| 2.5 Support Equipment.....                                        | 12        |
| 2.6 Test Setup Diagram .....                                      | 13        |
| <b>3 TRANSMITTER TEST RESULT .....</b>                            | <b>14</b> |
| 3.1 Maximum Conducted Output Power .....                          | 14        |
| 3.2 Unwanted Emissions.....                                       | 16        |
| 3.3 Test Equipment and Calibration Data .....                     | 20        |
| <b>APPENDIX A. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER</b> |           |
| <b>APPENDIX B. TEST RESULTS OF UNWANTED EMISSIONS</b>             |           |
| <b>APPENDIX C. TEST PHOTOS</b>                                    |           |
| <b>PHOTOGRAPHS OF EUT v01</b>                                     |           |



## History of this test report

TEL : 886-3-3273456  
FAX : 886-3-3270973  
Report Template No.: HE1-D1 Ver2.0  
FCC ID: UIDTG3482P2



## Summary of Test Result

| Report Clause | Ref. Std. Clause | Test Items                     | Result (PASS/FAIL) | Remark |
|---------------|------------------|--------------------------------|--------------------|--------|
| 1.1.2         | 15.203           | Antenna Requirement            | PASS               | -      |
| 3.1           | 15.407(a)        | Maximum Conducted Output Power | PASS               | -      |
| 3.2           | 15.407(b)        | Unwanted Emissions             | PASS               | -      |

**Reviewed by: Sam Tsai**

**Report Producer: Debby Hung**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11        | Ch. Frequency (MHz) | Channel Number |
|-----------------------|-------------------------|---------------------|----------------|
| 5250-5350             | a, n (HT20), ac (VHT20) | 5260-5320           | 52-64 [4]      |
| 5470-5725             |                         | 5500-5700           | 100-140 [11]   |
| Straddle 5725         |                         | 5720                | 144 [1]        |
| 5725-5850             |                         | 5745-5825           | 149-165 [5]    |
| 5250-5350             | n (HT40), ac (VHT40)    | 5270-5310           | 54-62 [2]      |
| 5470-5725             |                         | 5510-5670           | 102-134 [5]    |
| Straddle 5725         |                         | 5710                | 142 [1]        |
| 5725-5850             |                         | 5755-5795           | 151-159 [2]    |
| 5250-5350             | ac (VHT80)              | 5290                | 58 [1]         |
| 5470-5725             |                         | 5530-5610           | 106-122 [2]    |
| Straddle 5725         |                         | 5690                | 138 [1]        |
| 5725-5850             |                         | 5775                | 155 [1]        |
| 5150-5350             | ac (VHT160)             | 5250                | 50 [1]         |
| 5470-5725             |                         | 5570                | 114 [1]        |

#### < Non-Beamforming - 8TX >

| Band          | Mode            | BWch (MHz) | Nant |
|---------------|-----------------|------------|------|
| 5.25-5.35GHz  | 802.11a         | 20         | 8TX  |
| 5.47-5.725GHz | 802.11a         | 20         | 8TX  |
| 5.725-5.85GHz | 802.11a         | 20         | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT20  | 20         | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT20  | 20         | 8TX  |
| 5.725-5.85GHz | 802.11ac VHT20  | 20         | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT40  | 40         | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT40  | 40         | 8TX  |
| 5.725-5.85GHz | 802.11ac VHT40  | 40         | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT80  | 80         | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT80  | 80         | 8TX  |
| 5.725-5.85GHz | 802.11ac VHT80  | 80         | 8TX  |
| 5.15-5.25GHz  | 802.11ac VHT160 | 160        | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT160 | 160        | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT160 | 160        | 8TX  |

**< Beamforming - 8TX >**

| Band          | Mode               | BWch (MHz) | Nant |
|---------------|--------------------|------------|------|
| 5.25-5.35GHz  | 802.11ac VHT20-BF  | 20         | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT20-BF  | 20         | 8TX  |
| 5.725-5.85GHz | 802.11ac VHT20-BF  | 20         | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT40-BF  | 40         | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT40-BF  | 40         | 8TX  |
| 5.725-5.85GHz | 802.11ac VHT40-BF  | 40         | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT80-BF  | 80         | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT80-BF  | 80         | 8TX  |
| 5.725-5.85GHz | 802.11ac VHT80-BF  | 80         | 8TX  |
| 5.15-5.25GHz  | 802.11ac VHT160-BF | 160        | 8TX  |
| 5.25-5.35GHz  | 802.11ac VHT160-BF | 160        | 8TX  |
| 5.47-5.725GHz | 802.11ac VHT160-BF | 160        | 8TX  |

**Note:**

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

| Ant. | Brand   | Model Name | Antenna Type | Connector |
|------|---------|------------|--------------|-----------|
| 1    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 2    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 3    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 4    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 5    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 6    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 7    | Airgain | XB6        | PIFA antenna | I-PEX     |
| 8    | Airgain | XB6        | PIFA antenna | I-PEX     |

| Ant. | Port | Peak Gain (dBi) | Composite Gain (dBi) |
|------|------|-----------------|----------------------|
| 1    | 3    | 2.8             | 5.8                  |
| 2    | 4    | 3.4             | 5.8                  |
| 3    | 5    | 2.7             | 5.8                  |
| 4    | 6    | 3.4             | 5.8                  |
| 5    | 1    | 4.0             | 5.8                  |
| 6    | 7    | 3.9             | 5.8                  |
| 7    | 8    | 3.7             | 5.8                  |
| 8    | 2    | 3.4             | 5.8                  |

Note 1: The EUT has eight antennas.

**For 5 GHz function:**

For IEEE 802.11a/n/ac mode (8TX/8RX)

Ant. 1 ~ Ant. 8 could transmit/receive simultaneously.

Note 2:

- The Signals support CDD and correlated, and transmits simultaneously in multiple channels in single or multiple frequency bands.
- If all antennas have the same gain,  $G_{ANT}$ :  
Directional gain =  $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$  dBi, where  $N_{SS}$  = the number of independent spatial streams of data and  $G_{ANT}$  is the antenna gain in dBi. (This formula can also be applied when antennas have different gains if the highest antenna gain is substituted for  $G_{ANT}$ .)
- For power measurements on IEEE 802.11 devices,  
Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;  
Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;  
Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

### 1.1.3 EUT Information

| Operational Condition               |                                                                               |                                               |     |
|-------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------|-----|
| EUT Power Type                      | From AC Mains                                                                 |                                               |     |
| EUT Function                        | <input type="checkbox"/> Outdoor                                              | <input checked="" type="checkbox"/> Indoor    |     |
|                                     | <input type="checkbox"/> Fixed P2P                                            | <input type="checkbox"/> Client               |     |
| Beamforming Function                | <input checked="" type="checkbox"/> With beamforming                          | <input type="checkbox"/> Without beamforming  |     |
| Weather Band                        | <input checked="" type="checkbox"/> With 5600~5650MHz                         | <input type="checkbox"/> Without 5600~5650MHz |     |
| Type of EUT                         |                                                                               |                                               |     |
| <input checked="" type="checkbox"/> | Stand-alone                                                                   |                                               |     |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device) |                                               |     |
|                                     | Combined Equipment - Brand Name / Model No.:                                  |                                               | ... |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)                    |                                               |     |
|                                     | Host System - Brand Name / Model No.:                                         |                                               | ... |
| <input type="checkbox"/>            | Other:                                                                        |                                               |     |

### 1.1.4 Mode Test Duty Cycle

#### < Beamforming - 8TX >

| Mode               | DC    | DCF(dB) | T(s)   | VBW(Hz) ≥ 1/T |
|--------------------|-------|---------|--------|---------------|
| 802.11ac VHT80-BF  | 0.925 | 0.339   | 4.653m | 300           |
| 802.11ac VHT160-BF | 0.937 | 0.283   | 4.856m | 300           |

### 1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR832312-01AN

Below is the table for the change of the product with respect to the original one.

| Modifications                                                                           | Performance Checking                                                 |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Updated 5210MHz、5290MHz、5530MHz and 5250MHz for beamforming mode conducted Output power | Maximum Conducted Output Power and Unwanted Emissions was evaluated. |

## 1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01
- ♦ KDB 662911 D01 v02r01

## 1.3 Testing Location Information

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

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date   |
|----------------|---------------|---------------|------------------|-------------|
| Radiated       | 03CH02-HY     | Andy          | 23.4°C / 54.8%   | 12/Jul/2018 |
| RF Conducted   | TH06-HY       | Tim Chen      | 22.3°C / 62%     | 12/Jul/2018 |

## 1.4 Measurement Uncertainty

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

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz)     | 3.0 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.9 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.3 dB      | Confidence levels of 95% |
| Temperature                          | 0.7 °C      | Confidence levels of 95% |
| Humidity                             | 4 %         | Confidence levels of 95% |

## 2 Test Configuration of EUT

### 2.1 Test Condition

| Condition Item | Abbreviation/Remark | Remark |
|----------------|---------------------|--------|
| RF Conducted   | Abbreviation        | Remark |
| TnomVnom       | Tnom                | 20°C   |
| -              | Vnom                | 120V   |

### 2.2 Test Channel Mode

|               |     |
|---------------|-----|
| Test Software | cmd |
|---------------|-----|

#### < Beamforming - 8TX >

| Mode                               | PowerSetting |
|------------------------------------|--------------|
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | -            |
| 5210MHz                            | 18,18        |
| 5290MHz                            | 15,15        |
| 5530MHz                            | 13,13        |
| 802.11ac VHT160-BF_Nss1,(MCS0)_8TX | -            |
| 5250MHz Straddle 5.15-5.25GHz      | 15,15        |

## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                          |
|-----------------------------------------------------|------------------------------------------|
| <b>Tests Item</b>                                   | Maximum Conducted Output Power           |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains |

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

## 2.4 Accessories

| Accessories |       |                                |             |        |
|-------------|-------|--------------------------------|-------------|--------|
| Power Cord  | Cable | 1.65 meter, Non-Shielded cable | In/Out door | indoor |

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

## 2.5 Support Equipment

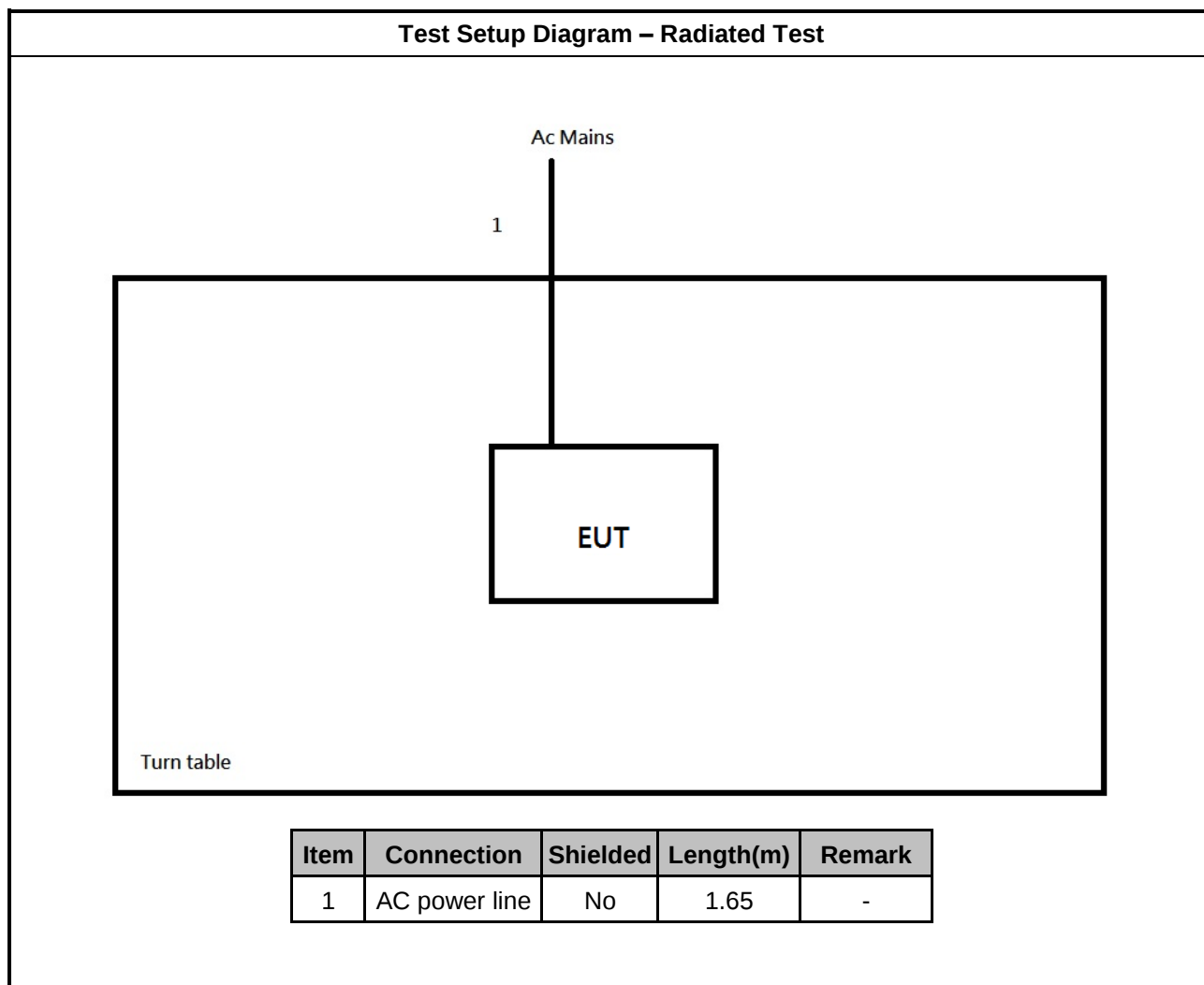
| Support Equipment – Radiated Emission |           |            |            |        |
|---------------------------------------|-----------|------------|------------|--------|
| No.                                   | Equipment | Brand Name | Model Name | FCC ID |
| 1                                     | Client    | -          | -          | -      |
| 2                                     | Notebook  | DELL       | E5530      | DoC    |

Note: Support equipment No.1 was provided by customer.

| Support Equipment – Conducted |                |            |            |        |
|-------------------------------|----------------|------------|------------|--------|
| No.                           | Equipment      | Brand Name | Model Name | FCC ID |
| 1                             | Notebook       | DELL       | E5410      | DOC    |
| 2                             | Adapter for NB | DELL       | HA65NM130  | DoC    |
| 3                             | Notebook       | DELL       | E5410      | DoC    |
| 4.                            | Adapter for NB | DELL       | HA65NM130  | DoC    |
| 5.                            | Client         | -          | -          | -      |

Note: Support equipment No.5 was provided by customer.

## 2.6 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 Maximum Conducted Output Power

##### 3.1.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNII Devices</b>                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125</math>mW [21dBm]</li> <li>Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul> |
| <input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ . |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| $P_{Out}$ = maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi.                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

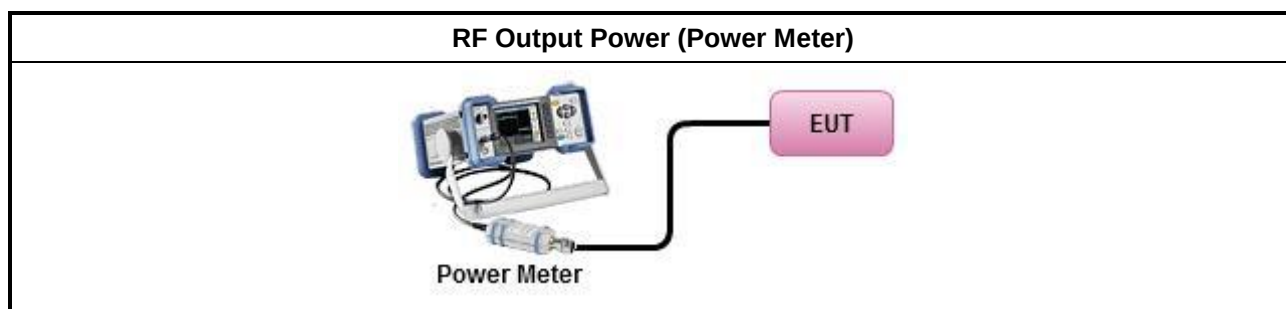
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

| Test Method                                                                      |                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Maximum Conducted Output Power</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                  | Duty cycle $\geq 98\%$                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>                                                         | Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                              |
|                                                                                  | Duty cycle $< 98\%$                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>                                                         | Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)                                                                                                                                                                                                                                                                               |
|                                                                                  | Wideband RF power meter and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/>                                              | Refer as KDB 789033, clause E Method PM (using an RF average power meter).                                                                                                                                                                                                                                                                                         |
| <ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>     |                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                  | <ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:<br/>Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul> |
|                                                                                  | <ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:<br/> <math>P_{\text{total}} = P_1 + P_2 + \dots + P_n</math><br/>                     (calculated in linear unit [mW] and transfer to log unit [dBm])<br/> <math>\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}</math> </li> </ul>  |

### 3.1.4 Test Setup



### 3.1.5 Test Result of Maximum Conducted Output Power

Refer as Appendix A

## 3.2 Unwanted Emissions

### 3.2.1 Transmitter Radiated Unwanted Emissions Limit

| Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit |                       |                         |                      |
|-------------------------------------------------------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)                                                         | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                                                                   | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                                                                   | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                                                                    | 30                    | 29                      | 30                   |
| 30~88                                                                         | 100                   | 40                      | 3                    |
| 88~216                                                                        | 150                   | 43.5                    | 3                    |
| 216~960                                                                       | 200                   | 46                      | 3                    |
| Above 960                                                                     | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

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

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

| Un-restricted band emissions above 1GHz Limit |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Band                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5.15 - 5.25 GHz                               | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.25 - 5.35 GHz                               | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.47 - 5.725 GHz                              | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.725 - 5.85 GHz                              | 5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m]<br>5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m]<br>5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m]<br>5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m]<br>5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m]<br>5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m]<br>Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m] |

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

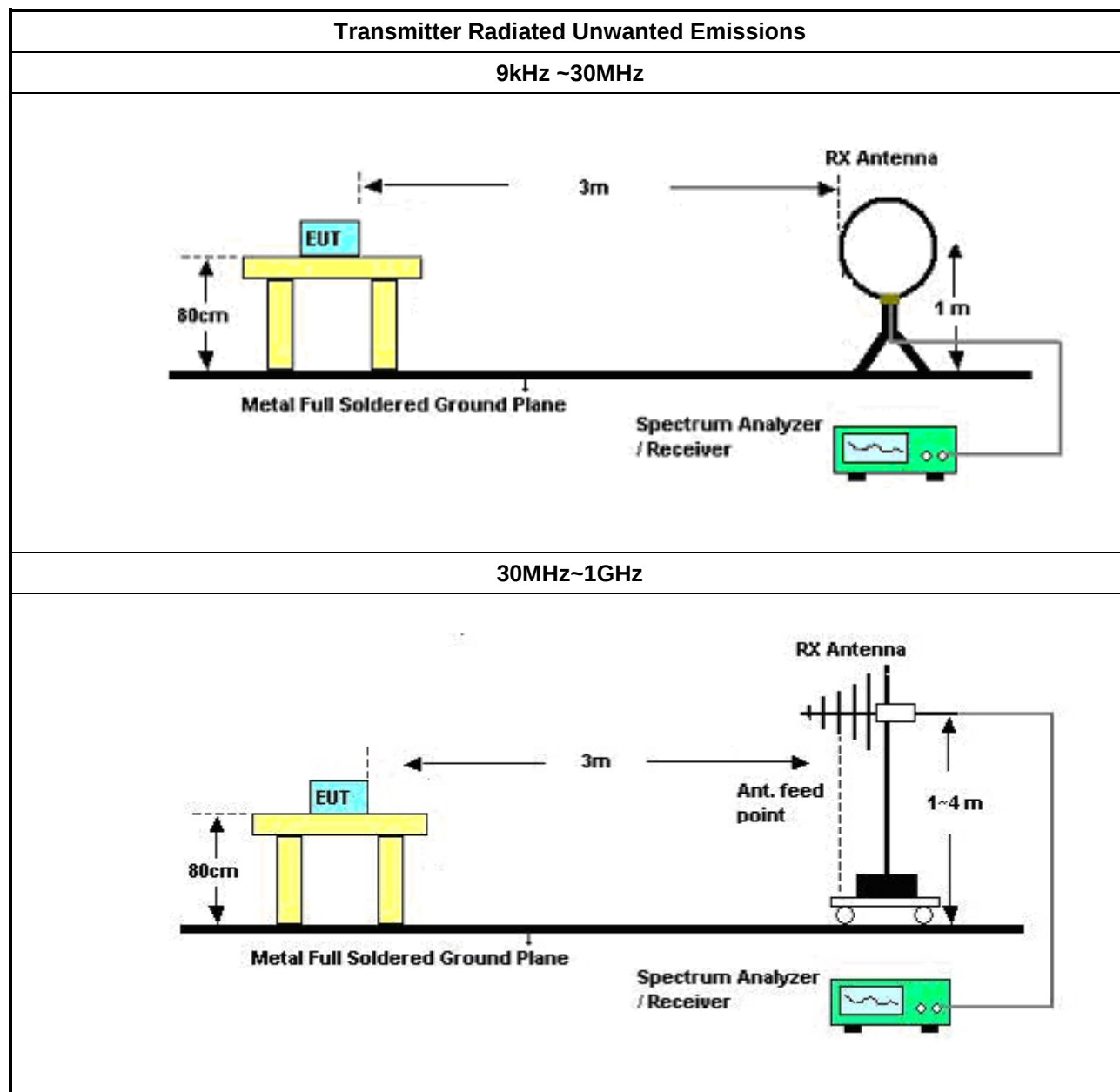
### 3.2.2 Measuring Instruments

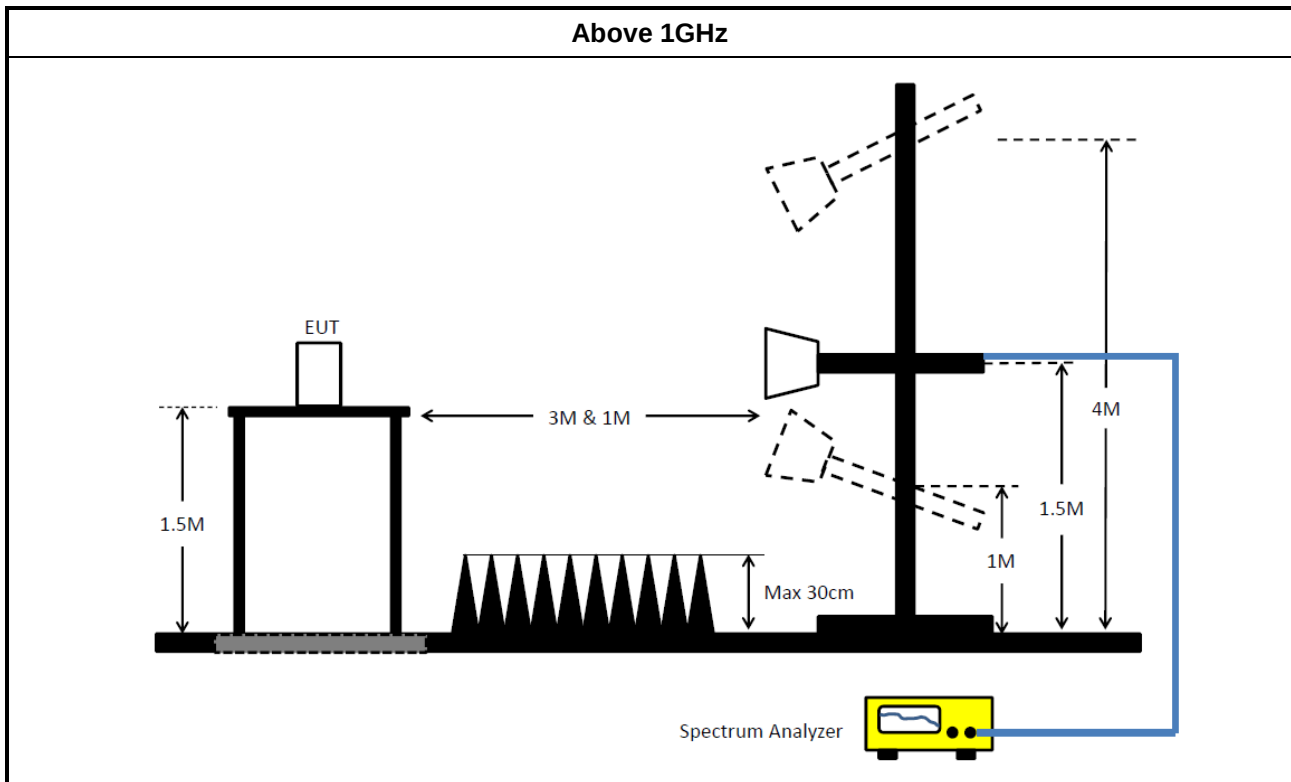
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).</li> </ul> |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li> </ul>                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.            |
| <ul style="list-style-type: none"> <li>For radiated measurement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>                              |
| <ul style="list-style-type: none"> <li>The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                    |

### 3.2.4 Test Setup





### 3.2.5 Transmitter Unwanted Emissions (Below 30MHz)

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

### 3.2.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix B

### 3.3 Test Equipment and Calibration Data

#### Instrument for Radiated Test

| Instrument                       | Manufacturer    | Model No.     | Serial No.        | Spec.              | Calibration Date | Calibration Due Date |
|----------------------------------|-----------------|---------------|-------------------|--------------------|------------------|----------------------|
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA  | SAC-3M        | 03CH02-HY         | 30MHz ~ 1GHz<br>3m | 20/Oct/2017      | 19/Oct/2018          |
| 3m Semi Anechoic Chamber         | SIDT FRANKONIA  | SAC-3M        | 03CH02-HY         | 1GHz ~ 18GHz<br>3m | 27/Oct/2017      | 26/Oct/2018          |
| Amplifier                        | Agilent         | 8447D         | 2944A11149        | 100kHz ~ 1.3GHz    | 27Jul/2018       | 02/Jul/2019          |
| Microwave Preamplifier           | Agilent         | 8449B         | 3008A02373        | 1GHz ~ 26.5GHz     | 28/Sep/2017      | 27/Sep/2018          |
| Spectrum Analyzer                | Rohde & Schwarz | FSP40         | 100593            | 9KHz - 40GHz       | 12/Dec/2017      | 11/Dec/2018          |
| EMI Test Receiver                | Rohde & Schwarz | ESCS 30       | 100354            | 9kHz ~ 2.75GHz     | 08/Dec/2017      | 07/Dec/2018          |
| RF Cable-R03m                    | Jye Bao         | RG142         | CB017             | 9kHz ~ 1GHz        | 19/Jan/2018      | 18/Jan/2019          |
| RF Cable-high                    | SUHNER          | SUCOFLEX104   | MY34918/4         | 1GHz ~ 40GHz       | 19/Jan/2018      | 18/Jan/2019          |
| Bilog Antenna                    | SCHAFFNER       | CBL 6112B     | 2723              | 30MHz ~ 1GHz       | 09/Sep/2017      | 08/Sep/2018          |
| Preamplifier                     | MITEQ           | TTA1840-35-HG | 1864481           | 18GHz ~ 40GHz      | 31/Aug/2017      | 30/Aug/2018          |
| Loop Antenna                     | TESEQ           | HLA 6120      | 31244             | 9k-30MHz           | 29/Mar/2018      | 28/Mar/2019          |
| Broadband Horn Antenna           | SCHWARZBECK     | BBHA 9170     | BBHA 9170221      | 15GHz ~ 40GHz      | 12/Mar/2018      | 11/Mar/2019          |
| Double Ridged Guide Horn Antenna | SCHWARZBECK     | BBHA 9120 D   | BBHA 9120 D 01543 | 1GHz ~ 18GHz       | 11/May/2018      | 10/May/2019          |

**Instrument for Conducted Test**

| Instrument        | Manufacturer       | Model No.    | Serial No. | Spec.           | Calibration Date | Calibration Due Date |
|-------------------|--------------------|--------------|------------|-----------------|------------------|----------------------|
| Spectrum Analyzer | R&S                | FSV 40       | 101013     | 9kHz~40GHz      | 29/Dec/2017      | 28/Dec/2018          |
| Signal Generator  | R&S                | SMR40        | 100116     | 10MHz ~ 40GHz   | 27/Jul/2017      | 26/Jul/2018          |
| Power Sensor      | Anritsu            | MA2411B      | 0917017    | 300MHz ~ 40GHz  | 05/Feb/2018      | 04/Feb/2019          |
| Power Meter       | Anritsu            | ML2495A      | 0949003    | 300MHz ~ 40GHz  | 05/Feb/2018      | 04/Feb/2019          |
| RF Cable-0.2m     | HUBER+SUHNER       | SUCOFLEX_104 | MY10710/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.2m     | HUBER+SUHNER       | SUCOFLEX_104 | MY10712/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| RF Cable-0.5m     | HUBER+SUHNER       | SUCOFLEX_104 | MY10713/4  | 30MHz ~ 26.5GHz | 25/Aug/2017      | 24/Aug/2018          |
| 2Way Divider      | Microwave          | MVE8546      | TH01-DV-01 | 1MHz~6MHz       | 23/Jan/2018      | 22/Jan/2019          |
| 2Way Divider      | Microwave          | MVE8546      | TH01-DV-03 | 1MHz~6MHz       | 23/Jan/2018      | 22/Jan/2019          |
| 4Way Divider      | Solvang Technology | MVE8547      | TH01-DV-04 | 1MHz~6MHz       | 23/Jan/2018      | 22/Jan/2019          |



Summary

| Mode                               | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|------------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                       | -                    | -                  | -             | -           |
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | 26.13                | 0.41020            | 31.93         | 1.55955     |
| 802.11ac VHT160-BF_Nss1,(MCS0)_8TX | 18.31                | 0.06776            | 24.11         | 0.25763     |
| 5.25-5.35GHz                       | -                    | -                  | -             | -           |
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | 22.73                | 0.18750            | 28.53         | 0.71285     |
| 802.11ac VHT160-BF_Nss1,(MCS0)_8TX | 19.13                | 0.08185            | 24.93         | 0.31117     |
| 5.47-5.725GHz                      | -                    | -                  | -             | -           |
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | 22.83                | 0.19187            | 28.63         | 0.72946     |



Result

| Mode                                   | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Port 3<br>(dBm) | Port 4<br>(dBm) | Port 5<br>(dBm) | Port 6<br>(dBm) | Port 7<br>(dBm) | Port 8<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) |
|----------------------------------------|--------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|---------------|---------------------|
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX      | -      | -           | -               | -               | -               | -               | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5210MHz_TnomVnom                       | Pass   | 5.80        | 16.60           | 16.84           | 16.77           | 17.92           | 16.57           | 18.05           | 16.98           | 16.75           | 26.13                   | 30.00                   | 31.93         | 36.00               |
| 5290MHz_TnomVnom                       | Pass   | 5.80        | 13.19           | 13.60           | 13.33           | 13.66           | 13.85           | 14.26           | 13.22           | 14.34           | 22.73                   | 24.00                   | 28.53         | 30.00               |
| 5530MHz_TnomVnom                       | Pass   | 5.80        | 12.61           | 13.95           | 13.03           | 13.63           | 14.94           | 14.49           | 14.16           | 13.11           | 22.83                   | 24.00                   | 28.63         | 30.00               |
| 802.11ac VHT160-BF_Nss1,(MCS0)_8TX     | -      | -           | -               | -               | -               | -               | -               | -               | -               | -               | -                       | -                       | -             | -                   |
| 5250MHz Straddle 5.15-5.25GHz_TnomVnom | Pass   | 5.80        | 9.23            | 8.43            | 8.42            | 11.13           | 8.78            | 9.77            | 8.59            | 9.15            | 18.31                   | 30.00                   | 24.11         | 36.00               |
| 5250MHz Straddle 5.25-5.35GHz_TnomVnom | Pass   | 5.80        | 9.30            | 10.07           | 9.71            | 11.32           | 10.22           | 10.37           | 9.39            | 10.05           | 19.13                   | 24.00                   | 24.93         | 30.00               |

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



**Summary**

| Mode                               | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| 5.15-5.25GHz                       | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | Pass   | AV   | 5.149995G    | 53.81             | 54.00             | -0.19          | 4.90           | 3           | Vertical  | 343            | 2.17          | -        |
| 802.11ac VHT160-BF_Nss1,(MCS0)_8TX | Pass   | AV   | 5.350005G    | 53.38             | 54.00             | -0.62          | 6.68           | 3           | Vertical  | 346            | 1.65          | -        |
| 5.25-5.35GHz                       | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | Pass   | AV   | 5.350005G    | 53.33             | 54.00             | -0.67          | 6.68           | 3           | Vertical  | 351            | 1.19          | -        |
| 5.47-5.725GHz                      | -      | -    | -            | -                 | -                 | -              | -              | -           | -         | -              | -             | -        |
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX  | Pass   | AV   | 5.459995G    | 53.52             | 54.00             | -0.48          | 6.83           | 3           | Vertical  | 348            | 2.23          | -        |

## Result

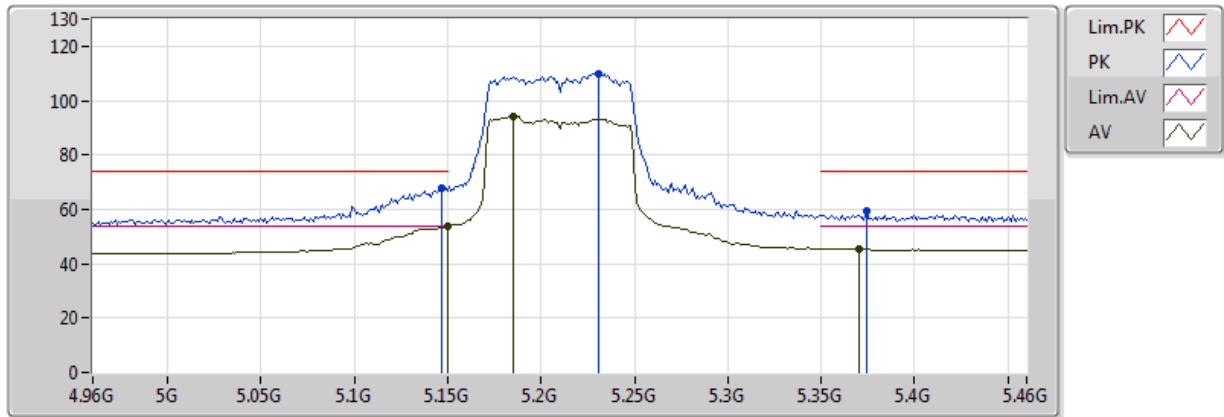
| Mode                              | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|-----------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 802.11ac VHT80-BF_Nss1,(MCS0)_8TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5210MHz                           | Pass   | AV   | 5.149995G    | 53.81             | 54.00             | -0.19          | 4.90           | 3           | Vertical   | 343            | 2.17          | -        |
| 5210MHz                           | Pass   | AV   | 5.185G       | 94.33             | Inf               | -Inf           | 4.95           | 3           | Vertical   | 343            | 2.17          | -        |
| 5210MHz                           | Pass   | AV   | 5.37G        | 45.47             | 54.00             | -8.53          | 5.21           | 3           | Vertical   | 343            | 2.17          | -        |
| 5210MHz                           | Pass   | PK   | 5.147G       | 68.00             | 74.00             | -6.00          | 4.90           | 3           | Vertical   | 343            | 2.17          | -        |
| 5210MHz                           | Pass   | PK   | 5.231G       | 109.92            | Inf               | -Inf           | 5.01           | 3           | Vertical   | 343            | 2.17          | -        |
| 5210MHz                           | Pass   | PK   | 5.374G       | 59.24             | 74.00             | -14.76         | 5.21           | 3           | Vertical   | 343            | 2.17          | -        |
| 5210MHz                           | Pass   | AV   | 5.149G       | 48.02             | 54.00             | -5.98          | 6.40           | 3           | Horizontal | 91             | 1.65          | -        |
| 5210MHz                           | Pass   | AV   | 5.214G       | 92.52             | Inf               | -Inf           | 6.49           | 3           | Horizontal | 91             | 1.65          | -        |
| 5210MHz                           | Pass   | AV   | 5.418G       | 45.28             | 54.00             | -8.72          | 6.77           | 3           | Horizontal | 91             | 1.65          | -        |
| 5210MHz                           | Pass   | PK   | 5.149G       | 59.69             | 74.00             | -14.31         | 6.40           | 3           | Horizontal | 91             | 1.65          | -        |
| 5210MHz                           | Pass   | PK   | 5.215G       | 102.17            | Inf               | -Inf           | 6.49           | 3           | Horizontal | 91             | 1.65          | -        |
| 5210MHz                           | Pass   | PK   | 5.428G       | 57.43             | 74.00             | -16.57         | 6.79           | 3           | Horizontal | 91             | 1.65          | -        |
| 5210MHz                           | Pass   | AV   | 10.41992G    | 44.41             | 54.00             | -9.59          | 9.29           | 3           | Vertical   | 121            | 1.25          | -        |
| 5210MHz                           | Pass   | PK   | 10.41528G    | 55.48             | 74.00             | -18.52         | 9.28           | 3           | Vertical   | 121            | 1.25          | -        |
| 5210MHz                           | Pass   | AV   | 10.41998G    | 46.18             | 54.00             | -7.82          | 9.29           | 3           | Horizontal | 116            | 1.72          | -        |
| 5210MHz                           | Pass   | PK   | 10.41846G    | 56.93             | 74.00             | -17.07         | 9.29           | 3           | Horizontal | 116            | 1.72          | -        |
| 5290MHz                           | Pass   | AV   | 5.071G       | 45.20             | 54.00             | -8.80          | 6.29           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | AV   | 5.277G       | 95.74             | Inf               | -Inf           | 6.58           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | AV   | 5.350005G    | 53.33             | 54.00             | -0.67          | 6.68           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | PK   | 5.138G       | 57.77             | 74.00             | -16.23         | 6.38           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | PK   | 5.271G       | 105.95            | Inf               | -Inf           | 6.57           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | PK   | 5.352G       | 65.40             | 74.00             | -8.60          | 6.68           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | PK   | 5.527G       | 58.42             | 68.20             | -9.78          | 6.94           | 3           | Vertical   | 351            | 1.19          | -        |
| 5290MHz                           | Pass   | AV   | 5.081G       | 44.96             | 54.00             | -9.04          | 6.31           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | AV   | 5.283G       | 93.58             | Inf               | -Inf           | 6.59           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | AV   | 5.350005G    | 50.63             | 54.00             | -3.37          | 6.68           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | PK   | 5.108G       | 57.96             | 74.00             | -16.04         | 6.34           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | PK   | 5.259G       | 105.79            | Inf               | -Inf           | 6.55           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | PK   | 5.36G        | 61.51             | 74.00             | -12.49         | 6.69           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | PK   | 5.523G       | 57.41             | 68.20             | -10.79         | 6.94           | 3           | Horizontal | 208            | 1.38          | -        |
| 5290MHz                           | Pass   | AV   | 10.57804G    | 45.13             | 54.00             | -8.87          | 15.65          | 3           | Vertical   | 223            | 1.10          | -        |
| 5290MHz                           | Pass   | PK   | 10.57786G    | 56.56             | 74.00             | -17.44         | 15.64          | 3           | Vertical   | 223            | 1.10          | -        |
| 5290MHz                           | Pass   | AV   | 10.57628G    | 46.15             | 54.00             | -7.85          | 15.64          | 3           | Horizontal | 78             | 1.87          | -        |
| 5290MHz                           | Pass   | PK   | 10.57928G    | 57.35             | 74.00             | -16.65         | 15.65          | 3           | Horizontal | 78             | 1.87          | -        |
| 5530MHz                           | Pass   | AV   | 5.459995G    | 53.52             | 54.00             | -0.48          | 6.83           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | AV   | 5.529G       | 97.01             | Inf               | -Inf           | 6.95           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | PK   | 5.305G       | 58.20             | 68.20             | -10.00         | 6.61           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | PK   | 5.457G       | 66.15             | 74.00             | -7.85          | 6.82           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | PK   | 5.465G       | 67.47             | 68.20             | -0.73          | 6.84           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | PK   | 5.498G       | 109.43            | Inf               | -Inf           | 6.88           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | PK   | 5.749G       | 58.67             | 68.20             | -9.53          | 7.48           | 3           | Vertical   | 348            | 2.23          | -        |
| 5530MHz                           | Pass   | AV   | 5.459995G    | 49.31             | 54.00             | -4.69          | 6.83           | 3           | Horizontal | 132            | 1.37          | -        |
| 5530MHz                           | Pass   | AV   | 5.532G       | 91.30             | Inf               | -Inf           | 6.96           | 3           | Horizontal | 132            | 1.37          | -        |
| 5530MHz                           | Pass   | PK   | 5.284G       | 57.62             | 68.20             | -10.58         | 6.59           | 3           | Horizontal | 132            | 1.37          | -        |
| 5530MHz                           | Pass   | PK   | 5.459G       | 61.97             | 74.00             | -12.03         | 6.83           | 3           | Horizontal | 132            | 1.37          | -        |
| 5530MHz                           | Pass   | PK   | 5.469G       | 62.04             | 68.20             | -6.16          | 6.84           | 3           | Horizontal | 132            | 1.37          | -        |
| 5530MHz                           | Pass   | PK   | 5.507G       | 106.42            | Inf               | -Inf           | 6.90           | 3           | Horizontal | 132            | 1.37          | -        |

| Mode                               | Result | Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------------------------------------|--------|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| 5530MHz                            | Pass   | PK   | 5.763G       | 58.47             | 68.20             | -9.73          | 7.52           | 3           | Horizontal | 132            | 1.37          | -        |
| 5530MHz                            | Pass   | AV   | 11.05908G    | 45.74             | 54.00             | -8.26          | 16.18          | 3           | Vertical   | 93             | 2.21          | -        |
| 5530MHz                            | Pass   | PK   | 11.0647G     | 56.60             | 74.00             | -17.40         | 16.18          | 3           | Vertical   | 93             | 2.21          | -        |
| 5530MHz                            | Pass   | AV   | 11.059G      | 46.78             | 54.00             | -7.22          | 16.18          | 3           | Horizontal | 284            | 2.42          | -        |
| 5530MHz                            | Pass   | PK   | 11.0554G     | 57.45             | 74.00             | -16.55         | 16.19          | 3           | Horizontal | 284            | 2.42          | -        |
| 802.11ac VHT160-BF_Nss1,(MCS0)_8TX | -      | -    | -            | -                 | -                 | -              | -              | -           | -          | -              | -             | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 5.149995G    | 50.96             | 54.00             | -3.04          | 6.40           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 5.2608G      | 96.39             | Inf               | -Inf           | 6.56           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 5.350005G    | 53.38             | 54.00             | -0.62          | 6.68           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.148G       | 63.55             | 74.00             | -10.45         | 6.40           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.2608G      | 111.76            | Inf               | -Inf           | 6.56           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.3544G      | 65.73             | 74.00             | -8.27          | 6.68           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.478G       | 59.38             | 68.20             | -8.82          | 6.85           | 3           | Vertical   | 346            | 1.65          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 5.149995G    | 49.39             | 54.00             | -4.61          | 6.40           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 5.262G       | 93.89             | Inf               | -Inf           | 6.56           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 5.3508G      | 49.06             | 54.00             | -4.94          | 6.68           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.1432G      | 62.58             | 74.00             | -11.42         | 6.39           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.2608G      | 109.89            | Inf               | -Inf           | 6.56           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.3592G      | 62.38             | 74.00             | -11.62         | 6.69           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 5.49G        | 58.06             | 68.20             | -10.14         | 6.86           | 3           | Horizontal | 68             | 1.74          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 10.49972G    | 45.33             | 54.00             | -8.67          | 15.53          | 3           | Vertical   | 341            | 2.45          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 10.5039G     | 56.25             | 74.00             | -17.75         | 15.54          | 3           | Vertical   | 341            | 2.45          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | AV   | 10.49956G    | 46.21             | 54.00             | -7.79          | 15.53          | 3           | Horizontal | 354            | 1.90          | -        |
| 5250MHz Straddle 5.15-5.25GHz      | Pass   | PK   | 10.50146G    | 57.20             | 74.00             | -16.80         | 15.54          | 3           | Horizontal | 354            | 1.90          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5210MHz\_TX

29/06/2018

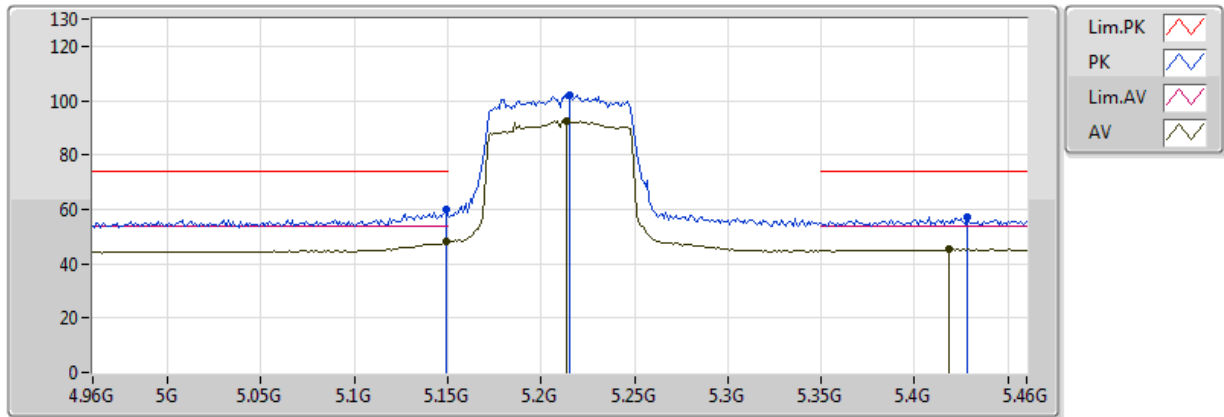


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 5.149995G    | 53.81             | 54.00             | -0.19          | 4.90           | 3           | Vertical  | 343            | 2.17          | -        |
| AV   | 5.185G       | 94.33             | Inf               | -Inf           | 4.95           | 3           | Vertical  | 343            | 2.17          | -        |
| AV   | 5.37G        | 45.47             | 54.00             | -8.53          | 5.21           | 3           | Vertical  | 343            | 2.17          | -        |
| PK   | 5.147G       | 68.00             | 74.00             | -6.00          | 4.90           | 3           | Vertical  | 343            | 2.17          | -        |
| PK   | 5.231G       | 109.92            | Inf               | -Inf           | 5.01           | 3           | Vertical  | 343            | 2.17          | -        |
| PK   | 5.374G       | 59.24             | 74.00             | -14.76         | 5.21           | 3           | Vertical  | 343            | 2.17          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5210MHz\_TX

29/06/2018

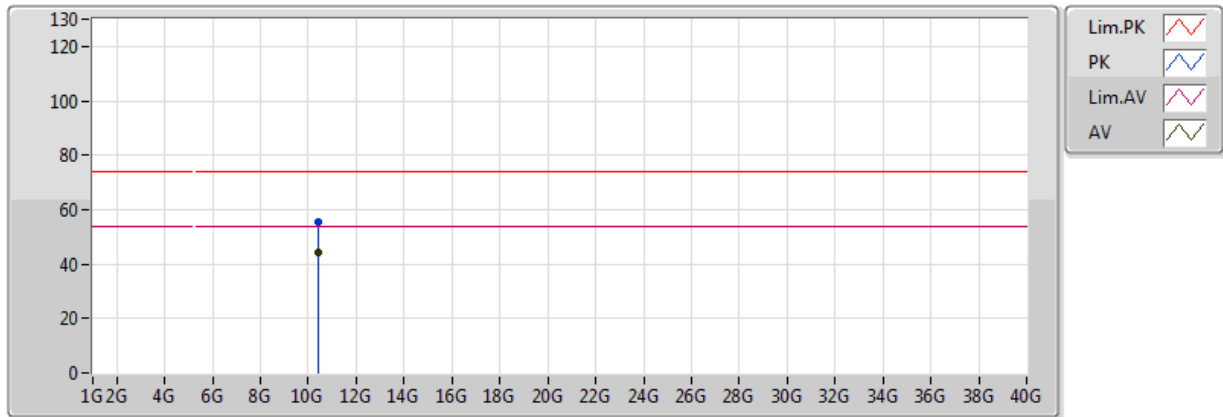


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 5.149G       | 48.02             | 54.00             | -5.98          | 6.40           | 3           | Horizontal | 91             | 1.65          | -        |
| AV   | 5.214G       | 92.52             | Inf               | -Inf           | 6.49           | 3           | Horizontal | 91             | 1.65          | -        |
| AV   | 5.418G       | 45.28             | 54.00             | -8.72          | 6.77           | 3           | Horizontal | 91             | 1.65          | -        |
| PK   | 5.149G       | 59.69             | 74.00             | -14.31         | 6.40           | 3           | Horizontal | 91             | 1.65          | -        |
| PK   | 5.215G       | 102.17            | Inf               | -Inf           | 6.49           | 3           | Horizontal | 91             | 1.65          | -        |
| PK   | 5.428G       | 57.43             | 74.00             | -16.57         | 6.79           | 3           | Horizontal | 91             | 1.65          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

### 5210MHz\_TX

29/06/2018

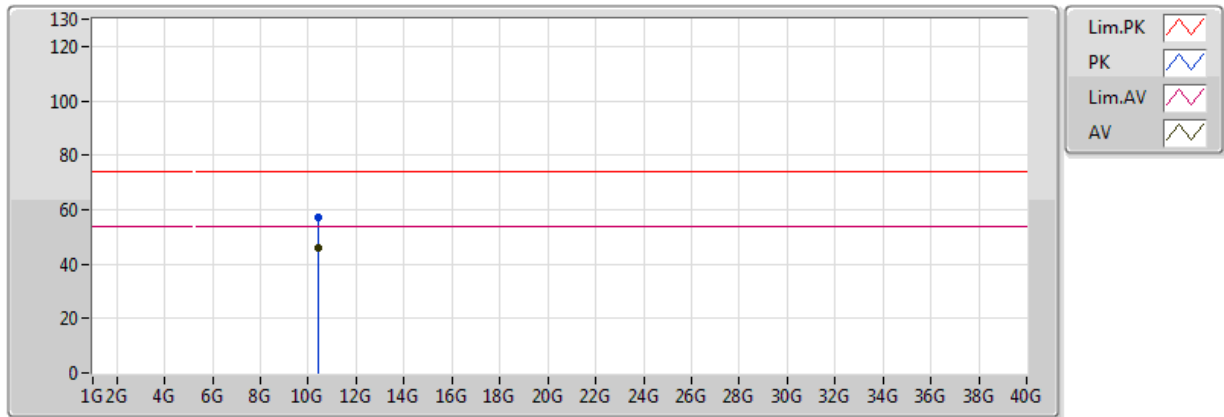


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 10.41992G    | 44.41             | 54.00             | -9.59          | 9.29           | 3           | Vertical  | 121            | 1.25          | -        |
| PK   | 10.41528G    | 55.48             | 74.00             | -18.52         | 9.28           | 3           | Vertical  | 121            | 1.25          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5210MHz\_TX

29/06/2018

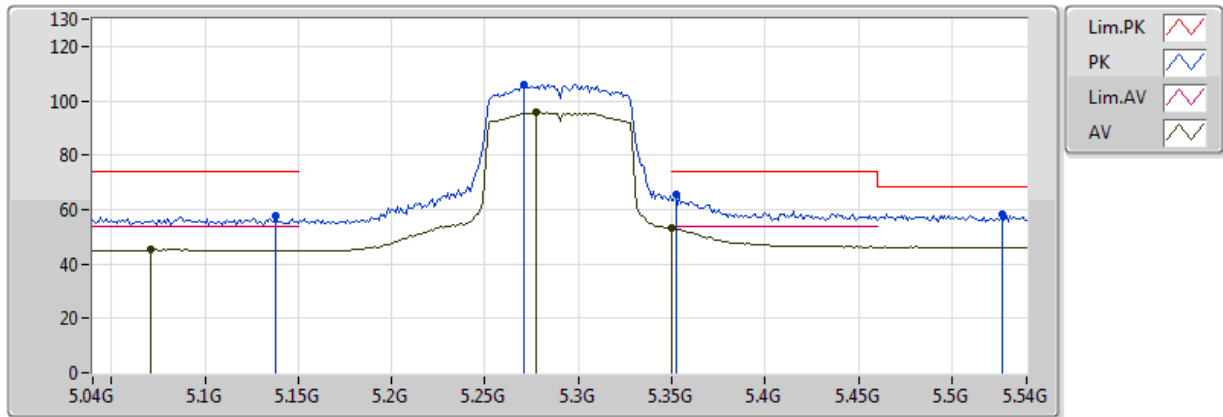


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 10.41998G    | 46.18             | 54.00             | -7.82          | 9.29           | 3           | Horizontal | 116            | 1.72          | -        |
| PK   | 10.41846G    | 56.93             | 74.00             | -17.07         | 9.29           | 3           | Horizontal | 116            | 1.72          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5290MHz\_TX

27/06/2018

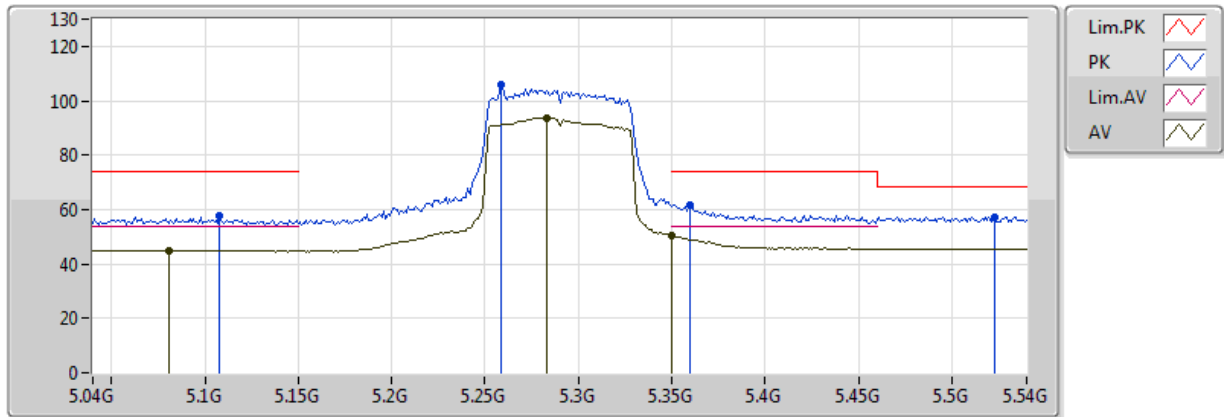


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 5.071G       | 45.20             | 54.00             | -8.80          | 6.29           | 3           | Vertical  | 351            | 1.19          | -        |
| AV   | 5.277G       | 95.74             | Inf               | -Inf           | 6.58           | 3           | Vertical  | 351            | 1.19          | -        |
| AV   | 5.350005G    | 53.33             | 54.00             | -0.67          | 6.68           | 3           | Vertical  | 351            | 1.19          | -        |
| PK   | 5.138G       | 57.77             | 74.00             | -16.23         | 6.38           | 3           | Vertical  | 351            | 1.19          | -        |
| PK   | 5.271G       | 105.95            | Inf               | -Inf           | 6.57           | 3           | Vertical  | 351            | 1.19          | -        |
| PK   | 5.352G       | 65.40             | 74.00             | -8.60          | 6.68           | 3           | Vertical  | 351            | 1.19          | -        |
| PK   | 5.527G       | 58.42             | 68.20             | -9.78          | 6.94           | 3           | Vertical  | 351            | 1.19          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5290MHz\_TX

27/06/2018

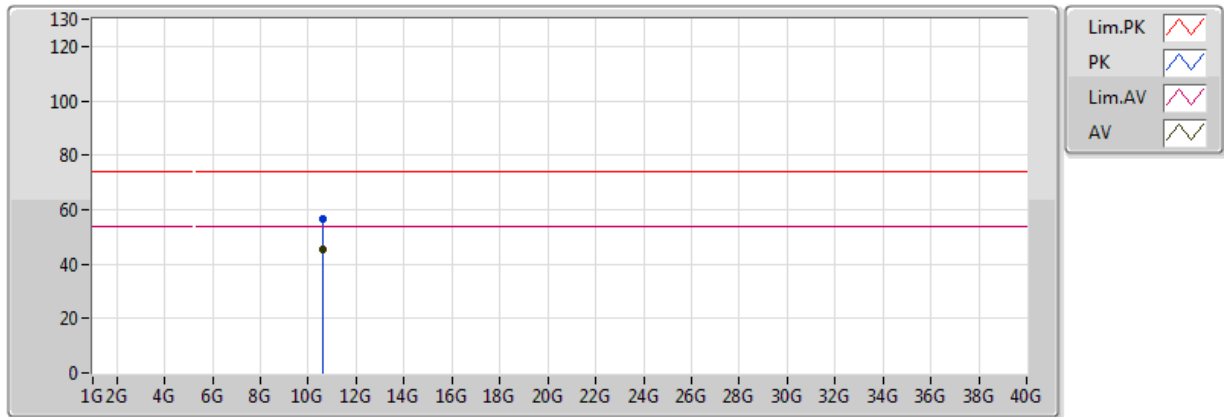


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 5.081G       | 44.96             | 54.00             | -9.04          | 6.31           | 3           | Horizontal | 208            | 1.38          | -        |
| AV   | 5.283G       | 93.58             | Inf               | -Inf           | 6.59           | 3           | Horizontal | 208            | 1.38          | -        |
| AV   | 5.350005G    | 50.63             | 54.00             | -3.37          | 6.68           | 3           | Horizontal | 208            | 1.38          | -        |
| PK   | 5.108G       | 57.96             | 74.00             | -16.04         | 6.34           | 3           | Horizontal | 208            | 1.38          | -        |
| PK   | 5.259G       | 105.79            | Inf               | -Inf           | 6.55           | 3           | Horizontal | 208            | 1.38          | -        |
| PK   | 5.36G        | 61.51             | 74.00             | -12.49         | 6.69           | 3           | Horizontal | 208            | 1.38          | -        |
| PK   | 5.523G       | 57.41             | 68.20             | -10.79         | 6.94           | 3           | Horizontal | 208            | 1.38          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5290MHz\_TX

27/06/2018

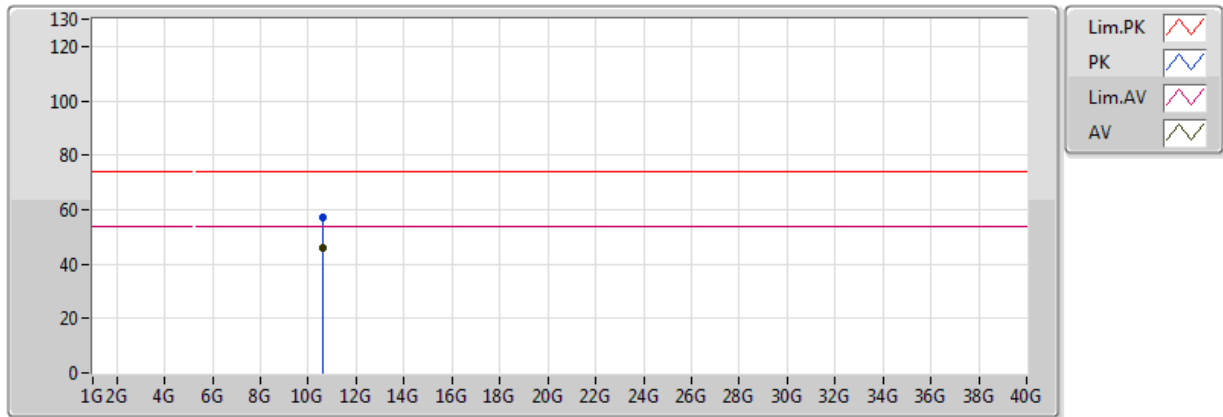


| Type | Freq      | Level    | Limit    | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|----------|
|      | (Hz)      | (dBuV/m) | (dBuV/m) | (dB)   | (dB)   | (m)  |           | (°)     | (m)    |          |
| AV   | 10.57804G | 45.13    | 54.00    | -8.87  | 15.65  | 3    | Vertical  | 223     | 1.10   | -        |
| PK   | 10.57786G | 56.56    | 74.00    | -17.44 | 15.64  | 3    | Vertical  | 223     | 1.10   | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

### 5290MHz\_TX

27/06/2018

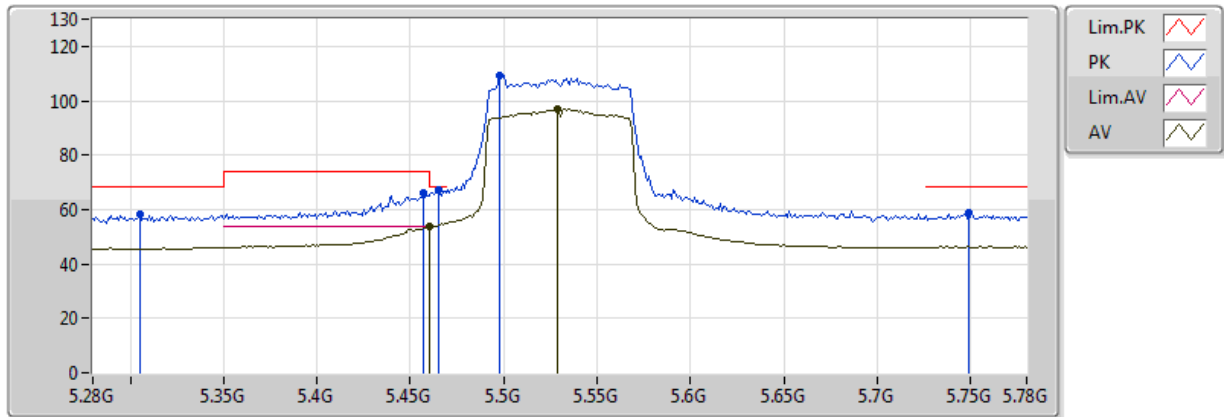


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 10.57628G    | 46.15             | 54.00             | -7.85          | 15.64          | 3           | Horizontal | 78             | 1.87          | -        |
| PK   | 10.57928G    | 57.35             | 74.00             | -16.65         | 15.65          | 3           | Horizontal | 78             | 1.87          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5530MHz\_TX

27/06/2018

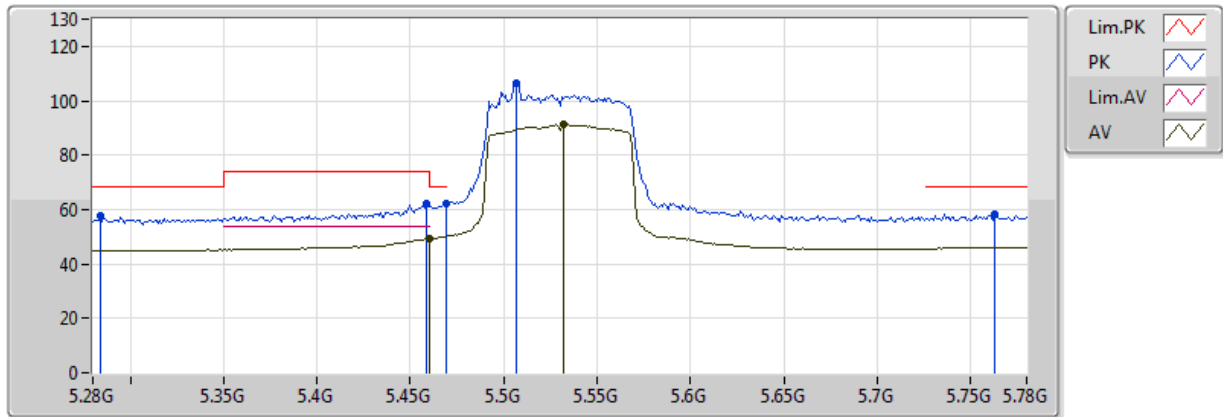


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 5.459995G    | 53.52             | 54.00             | -0.48          | 6.83           | 3           | Vertical  | 348            | 2.23          | -        |
| AV   | 5.529G       | 97.01             | Inf               | -Inf           | 6.95           | 3           | Vertical  | 348            | 2.23          | -        |
| PK   | 5.305G       | 58.20             | 68.20             | -10.00         | 6.61           | 3           | Vertical  | 348            | 2.23          | -        |
| PK   | 5.457G       | 66.15             | 74.00             | -7.85          | 6.82           | 3           | Vertical  | 348            | 2.23          | -        |
| PK   | 5.465G       | 67.47             | 68.20             | -0.73          | 6.84           | 3           | Vertical  | 348            | 2.23          | -        |
| PK   | 5.498G       | 109.43            | Inf               | -Inf           | 6.88           | 3           | Vertical  | 348            | 2.23          | -        |
| PK   | 5.749G       | 58.67             | 68.20             | -9.53          | 7.48           | 3           | Vertical  | 348            | 2.23          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5530MHz\_TX

27/06/2018

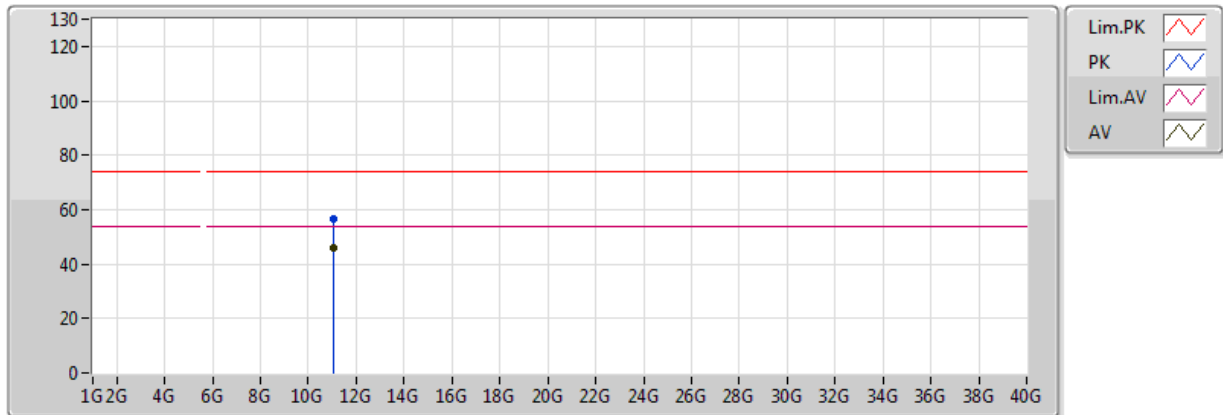


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 5.459995G    | 49.31             | 54.00             | -4.69          | 6.83           | 3           | Horizontal | 132            | 1.37          | -        |
| AV   | 5.532G       | 91.30             | Inf               | -Inf           | 6.96           | 3           | Horizontal | 132            | 1.37          | -        |
| PK   | 5.284G       | 57.62             | 68.20             | -10.58         | 6.59           | 3           | Horizontal | 132            | 1.37          | -        |
| PK   | 5.459G       | 61.97             | 74.00             | -12.03         | 6.83           | 3           | Horizontal | 132            | 1.37          | -        |
| PK   | 5.469G       | 62.04             | 68.20             | -6.16          | 6.84           | 3           | Horizontal | 132            | 1.37          | -        |
| PK   | 5.507G       | 106.42            | Inf               | -Inf           | 6.90           | 3           | Horizontal | 132            | 1.37          | -        |
| PK   | 5.763G       | 58.47             | 68.20             | -9.73          | 7.52           | 3           | Horizontal | 132            | 1.37          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

## 5530MHz\_TX

27/06/2018

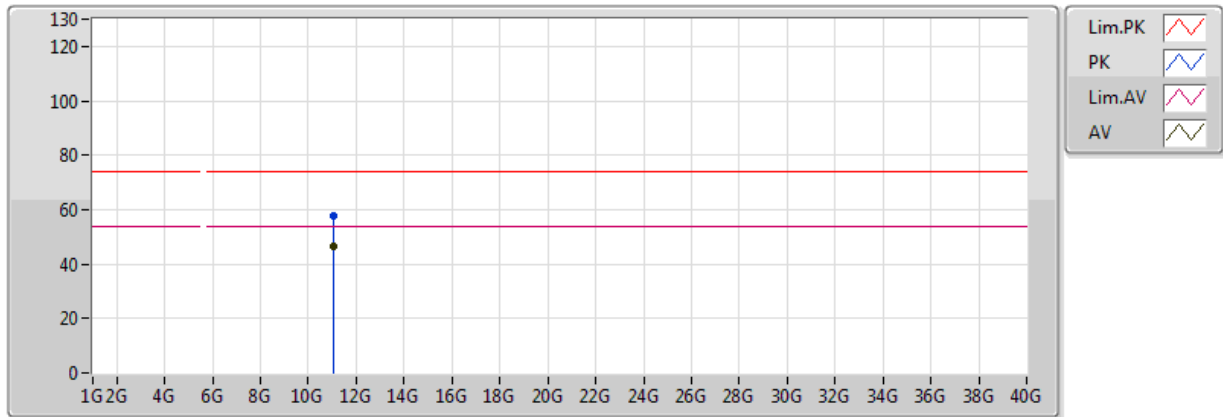


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 11.05908G    | 45.74             | 54.00             | -8.26          | 16.18          | 3           | Vertical  | 93             | 2.21          | -        |
| PK   | 11.0647G     | 56.60             | 74.00             | -17.40         | 16.18          | 3           | Vertical  | 93             | 2.21          | -        |

## 802.11ac VHT80-BF\_Nss1,(MCS0)\_8TX

### 5530MHz\_TX

27/06/2018

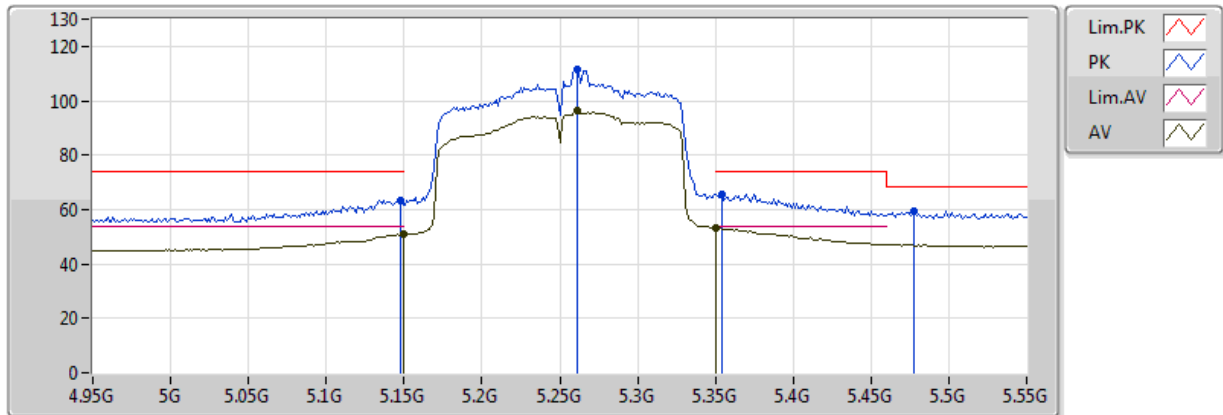


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 11.059G      | 46.78             | 54.00             | -7.22          | 16.18          | 3           | Horizontal | 284            | 2.42          | -        |
| PK   | 11.0554G     | 57.45             | 74.00             | -16.55         | 16.19          | 3           | Horizontal | 284            | 2.42          | -        |

## 802.11ac VHT160-BF\_Nss1,(MCS0)\_8TX

## 5250MHz Straddle 5.15-5.25GHz\_TX

27/06/2018

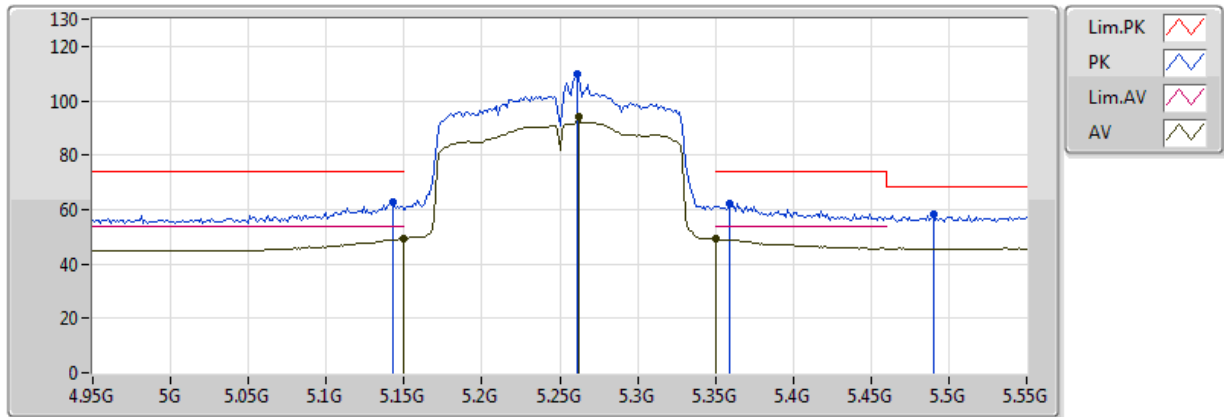


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 5.149995G    | 50.96             | 54.00             | -3.04          | 6.40           | 3           | Vertical  | 346            | 1.65          | -        |
| AV   | 5.2608G      | 96.39             | Inf               | -Inf           | 6.56           | 3           | Vertical  | 346            | 1.65          | -        |
| AV   | 5.350005G    | 53.38             | 54.00             | -0.62          | 6.68           | 3           | Vertical  | 346            | 1.65          | -        |
| PK   | 5.148G       | 63.55             | 74.00             | -10.45         | 6.40           | 3           | Vertical  | 346            | 1.65          | -        |
| PK   | 5.2608G      | 111.76            | Inf               | -Inf           | 6.56           | 3           | Vertical  | 346            | 1.65          | -        |
| PK   | 5.3544G      | 65.73             | 74.00             | -8.27          | 6.68           | 3           | Vertical  | 346            | 1.65          | -        |
| PK   | 5.478G       | 59.38             | 68.20             | -8.82          | 6.85           | 3           | Vertical  | 346            | 1.65          | -        |

## 802.11ac VHT160-BF\_Nss1,(MCS0)\_8TX

## 5250MHz Straddle 5.15-5.25GHz\_TX

27/06/2018

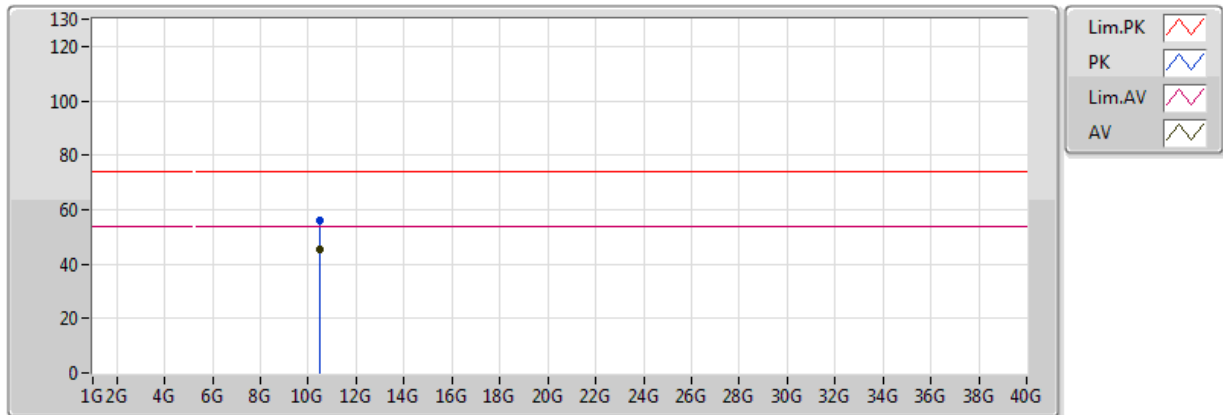


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 5.149995G    | 49.39             | 54.00             | -4.61          | 6.40           | 3           | Horizontal | 68             | 1.74          | -        |
| AV   | 5.262G       | 93.89             | Inf               | -Inf           | 6.56           | 3           | Horizontal | 68             | 1.74          | -        |
| AV   | 5.3508G      | 49.06             | 54.00             | -4.94          | 6.68           | 3           | Horizontal | 68             | 1.74          | -        |
| PK   | 5.1432G      | 62.58             | 74.00             | -11.42         | 6.39           | 3           | Horizontal | 68             | 1.74          | -        |
| PK   | 5.2608G      | 109.89            | Inf               | -Inf           | 6.56           | 3           | Horizontal | 68             | 1.74          | -        |
| PK   | 5.3592G      | 62.38             | 74.00             | -11.62         | 6.69           | 3           | Horizontal | 68             | 1.74          | -        |
| PK   | 5.49G        | 58.06             | 68.20             | -10.14         | 6.86           | 3           | Horizontal | 68             | 1.74          | -        |

## 802.11ac VHT160-BF\_Nss1,(MCS0)\_8TX

## 5250MHz Straddle 5.15-5.25GHz\_TX

27/06/2018

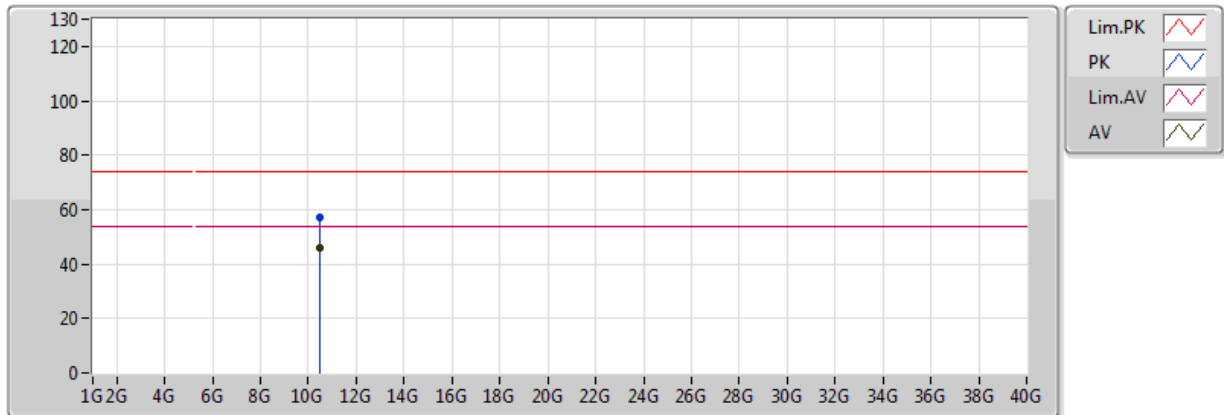


| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|-----------|----------------|---------------|----------|
| AV   | 10.49972G    | 45.33             | 54.00             | -8.67          | 15.53          | 3           | Vertical  | 341            | 2.45          | -        |
| PK   | 10.5039G     | 56.25             | 74.00             | -17.75         | 15.54          | 3           | Vertical  | 341            | 2.45          | -        |

## 802.11ac VHT160-BF\_Nss1,(MCS0)\_8TX

## 5250MHz Straddle 5.15-5.25GHz\_TX

27/06/2018



| Type | Freq<br>(Hz) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Factor<br>(dB) | Dist<br>(m) | Condition  | Azimuth<br>(°) | Height<br>(m) | Comments |
|------|--------------|-------------------|-------------------|----------------|----------------|-------------|------------|----------------|---------------|----------|
| AV   | 10.49956G    | 46.21             | 54.00             | -7.79          | 15.53          | 3           | Horizontal | 354            | 1.90          | -        |
| PK   | 10.50146G    | 57.20             | 74.00             | -16.80         | 15.54          | 3           | Horizontal | 354            | 1.90          | -        |