Testing Laboratory 3787

# RADIO TEST REPORT

| | | |
|---|---|---|
| FCC ID | : | 2BAKF-QN-I-270 |
| Equipment | : | Dual Band Wifi 6 Indoor access point (802.11 ax 2X2) |
| Brand Name | : | Qunatum Networks |
| Model Name | : | QN-I-270 |
| Applicant | : | Zen Exim Pvt. Ltd.<br>2nd Floor, Shakti 404, Opp. New Gurudwara,<br>Bodakdev, Ahmedabad Gujarat 380054, India |
| Manufacturer | : | Zen Exim Pvt. Ltd.<br>2nd Floor, Shakti 404, Opp. New Gurudwara,<br>Bodakdev, Ahmedabad Gujarat 380054, India |
| Standard | : | 47 CFR FCC Part 15.407 |

The product was received on Nov. 10, 2020, and testing was started from Nov. 14, 2020 and completed on Mar. 18, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

*Sporton International Inc. Hsinchu Laboratory*
*No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)*

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# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR0O2913-08AB | 01 | Initial issue of report | May 16, 2023 |
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# Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 1.1.2 | 15.203 | Antenna Requirement | PASS | - |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | PASS | - |
| 3.2 | 15.407(a) | Emission Bandwidth | PASS | - |
| 3.3 | 15.407(a) | Maximum Conducted Output Power | PASS | - |
| 3.4 | 15.407(a) | Peak Power Spectral Density | PASS | - |
| 3.5 | 15.407(b) | Unwanted Emissions | PASS | - |
| Reference to Sporton Project No.: 0O2913 | | | | |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

**Disclaimer:**

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.

**Reviewed by: Sam Chen**

**Report Producer: Viola Huang**

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|---|---|---|---|
| 5150-5250 | a, n (HT20), ac (VHT20), ax (HEW20) | 5180-5240 | 36-48 [4] |
| 5725-5850 | | 5745-5825 | 149-165 [5] |
| 5150-5250 | n (HT40), ac (VHT40), ax (HEW40) | 5190-5230 | 38-46 [2] |
| 5725-5850 | | 5755-5795 | 151-159 [2] |
| 5150-5250 | ac (VHT80), ax (HEW80) | 5210 | 42 [1] |
| 5725-5850 | | 5775 | 155 [1] |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.15-5.25GHz | 802.11a | 20 | 2TX |
| 5.15-5.25GHz | 802.11n HT20 | 20 | 2TX |
| 5.15-5.25GHz | 802.11n HT20-BF | 20 | 2TX |
| 5.15-5.25GHz | 802.11ac VHT20 | 20 | 2TX |
| 5.15-5.25GHz | 802.11ac VHT20-BF | 20 | 2TX |
| 5.15-5.25GHz | 802.11ax HEW20 | 20 | 2TX |
| 5.15-5.25GHz | 802.11ax HEW20-BF | 20 | 2TX |
| 5.15-5.25GHz | 802.11n HT40 | 40 | 2TX |
| 5.15-5.25GHz | 802.11n HT40-BF | 40 | 2TX |
| 5.15-5.25GHz | 802.11ac VHT40 | 40 | 2TX |
| 5.15-5.25GHz | 802.11ac VHT40-BF | 40 | 2TX |
| 5.15-5.25GHz | 802.11ax HEW40 | 40 | 2TX |
| 5.15-5.25GHz | 802.11ax HEW40-BF | 40 | 2TX |
| 5.15-5.25GHz | 802.11ac VHT80 | 80 | 2TX |
| 5.15-5.25GHz | 802.11ac VHT80-BF | 80 | 2TX |
| 5.15-5.25GHz | 802.11ax HEW80 | 80 | 2TX |
| 5.15-5.25GHz | 802.11ax HEW80-BF | 80 | 2TX |
| 5.725-5.85GHz | 802.11a | 20 | 2TX |
| 5.725-5.85GHz | 802.11n HT20 | 20 | 2TX |
| 5.725-5.85GHz | 802.11n HT20-BF | 20 | 2TX |
| 5.725-5.85GHz | 802.11ac VHT20 | 20 | 2TX |
| 5.725-5.85GHz | 802.11ac VHT20-BF | 20 | 2TX |
| 5.725-5.85GHz | 802.11ax HEW20 | 20 | 2TX |
| 5.725-5.85GHz | 802.11ax HEW20-BF | 20 | 2TX |
| 5.725-5.85GHz | 802.11n HT40 | 40 | 2TX |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.725-5.85GHz | 802.11n HT40-BF | 40 | 2TX |
| 5.725-5.85GHz | 802.11ac VHT40 | 40 | 2TX |
| 5.725-5.85GHz | 802.11ac VHT40-BF | 40 | 2TX |
| 5.725-5.85GHz | 802.11ax HEW40 | 40 | 2TX |
| 5.725-5.85GHz | 802.11ax HEW40-BF | 40 | 2TX |
| 5.725-5.85GHz | 802.11ac VHT80 | 80 | 2TX |
| 5.725-5.85GHz | 802.11ac VHT80-BF | 80 | 2TX |
| 5.725-5.85GHz | 802.11ax HEW80 | 80 | 2TX |
| 5.725-5.85GHz | 802.11ax HEW80-BF | 80 | 2TX |

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Port | Brand | P/N | Antenna Type | Connector | Gain (dBi) | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 2.4GHz | 5GHz | Bluetooth |
| 1 | 1 | Angeei | SD2430S01-185G13U1S | PIFA | I-PEX | 4.8 | 5.8 | - |
| 2 | 2 | Angeei | SD2430R01-100G13U1S | PIFA | I-PEX | 4.8 | 6.0 | - |
| 3 | 1 | Angeei | P242003-T4-55G13U1S | PCB | I-PEX | - | - | 4.6 |

Note1: The above information was declared by manufacturer.

**For 2.4GHz Function:**

**For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz Function:**

**For IEEE 802.11a/n/ac/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**For Bluetooth Function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving.

Note 2: Directional gain information

| Type | Maximum Output Power | Power Spectral Density |
|---|---|---|
| Non-BF | Directional gain = Max.gain + array gain.<br>For power measurements on IEEE 802.11 devices<br>Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4 | $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ |
| BF | $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ | $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$ |

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

NSS1(g1,1) = $10^{G1/20}$ ; NSS1(g1,2)= $10^{G2/20}$

gj,k =(Nss1(g1,1) + Nss1(g1,2))$^2$

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2) )$^2$ / $N_{ANT}$] => 10 log[($10^{G1/20}$ + $10^{G2/20}$ )$^2$ / $N_{ANT}$]

Where ;

G1 = Ant 1 Gain ; G2 = Ant 2 Gain

2.4 GHz DG = 7.81 dBi

5 GHz U-NII-1 DG = 8.91 dBi

5 GHz U-NII-2A DG = 8.91 dBi

5 GHz U-NII-2C DG = 8.91 dBi

5 GHz U-NII-3 DG = 8.91 dBi

### 1.1.3 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|---|---|---|---|---|
| 802.11a | 0.934 | 0.3 | 1.978m | 1k |
| 802.11ax HEW20 | 0.934 | 0.3 | 5.448m | 300 |
| 802.11ax HEW40 | 0.93 | 0.32 | 5.448m | 300 |
| 802.11ax HEW80 | 0.94 | 0.27 | 5.448m | 300 |
| 802.11ax HEW20-BF | 0.922 | 0.35 | 1.765m | 1k |
| 802.11ax HEW40-BF | 0.926 | 0.33 | 1.768m | 1k |
| 802.11ax HEW80-BF | 0.921 | 0.36 | 1.693m | 1k |

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

### 1.1.4 EUT Operational Condition

| | | | | |
|---|---|---|---|---|
| **EUT Power Type** | From Power Adapter or PoE | | | |
| **Beamforming Function** | ☒ | With beamforming | ☐ | Without beamforming |
| | For 802.11n/ax and VHT in 2.4GHz and 802.11n/ac/ax in 5GHz. | | | |
| **Function** | ☐ | Outdoor P2M | ☒ | Indoor P2M |
| | ☐ | Fixed P2P | ☐ | Client |
| **Test Software Version** | QRCT.exe Version 4.0.00134.0 | | | |

Note: The above information was declared by manufacturer.

## 1.2 Applicable 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
- FCC KDB 789033 D02 v02r01

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

- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01

## 1.3 Testing Location Information

| Testing Location Information | |
|---|---|
| Test Lab.：Sporton International Inc. Hsinchu Laboratory | |
| Hsinchu (TAF: 3787) | ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)<br>TEL: 886-3-656-9065 FAX: 886-3-656-9085<br>Test site Designation No. TW0006 with FCC.<br>Test site registered number IC 4086D with Industry Canada. |

| Test Condition | Test Site No. | Test Engineer | Test Environment (°C / %) | Test Date |
|---|---|---|---|---|
| RF Conducted | TH02-CB | Brian Sun | 24.2-25.2 / 55-58 | Nov. 18, 2020~Nov. 19, 2020 |
| Radiated <For Below 1GHz> | 03CH05-CB | Cola Fan | 20.4~21.4 / 55~57 | Mar. 17, 2021 |
| Radiated <Non-beamforming mode> | 03CH01-CB | Stim Sun | 24.4-25.2 / 56-58 | Nov. 14, 2020~Nov. 25, 2020 |
| | 03CH04-CB | Stim Sun | 24.5-24.9 / 55-57 | |
| Radiated <beamforming mode> | 03CH06-CB | Stim Sun | 24.3-24.9 / 55-57 | Nov. 14, 2020~Nov. 25, 2020 |
| Radiated <For Co-location> | 03CH05-CB | Stim Sun | 24.4-25.2 / 56-58 | Nov. 17, 2020 |
| AC Conduction | CO01-CB | Wei Li | 24~25 / 57~59 | Mar. 18, 2021 |

## 1.4 Measurement Uncertainty

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

**For RF conducted and radiated above 1GHz tests**

| Test Items | Uncertainty | Remark |
|---|---|---|
| Radiated Emission (1GHz ~ 18GHz) | 4.9 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.6 dB | Confidence levels of 95% |
| Conducted Emission | 2.8 dB | Confidence levels of 95% |
| Output Power Measurement | 1.4 dB | Confidence levels of 95% |
| Power Density Measurement | 2.8 dB | Confidence levels of 95% |
| Bandwidth Measurement | 0.39% | Confidence levels of 95% |

**For others test**

| Test Items | Uncertainty | Remark |
|---|---|---|
| Conducted Emission (150kHz ~ 30MHz) | 2.0 dB | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz) | 3.8 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 5.6 dB | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Channel Mode

**<Non-beamforming mode>**

| Mode | Power Setting |
|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - |
| 5180MHz | 23.5 |
| 5200MHz | 23.5 |
| 5240MHz | 23.5 |
| 5745MHz | 26.5 |
| 5785MHz | 26 |
| 5825MHz | 26 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - |
| 5180MHz | 24 |
| 5200MHz | 24.5 |
| 5240MHz | 24.5 |
| 5745MHz | 26.5 |
| 5785MHz | 26 |
| 5825MHz | 24 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - |
| 5190MHz | 18 |
| 5230MHz | 18.5 |
| 5755MHz | 18 |
| 5795MHz | 20.5 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - |
| 5210MHz | 18 |
| 5775MHz | 22.5 |

**<beamforming mode>**

| Mode | Power Setting |
|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - |
| 5180MHz | 26 |
| 5200MHz | 26 |
| 5240MHz | 26 |
| 5745MHz | 26 |
| 5785MHz | 26 |
| 5825MHz | 26 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - |
| 5190MHz | 26 |
| 5230MHz | 26 |
| 5755MHz | 26 |
| 5795MHz | 26 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - |
| 5210MHz | 26 |
| 5775MHz | 25 |

Note:
- Evaluated HEW20/HEW40/HEW80 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.
- There are two modes of EUT for 802.11n/VHT/ax in 2.4GHz and 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | AC power-line conducted emissions |
| **Condition** | AC power-line conducted measurement for line and neutral |
| **Operating Mode** | Normal Link |
| 1 | AP Router: EUT + Adapter |
| 2 | AP Router: EUT + PoE |
| For operating mode 1 is the worst case and it was record in this test report. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Emission Bandwidth<br>Maximum Conducted Output Power<br>Peak Power Spectral Density<br>Unwanted Emissions |
| **Test Condition** | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Unwanted Emissions |
| **Test Condition** | Radiated measurement<br>If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. |
| **Operating Mode < 1GHz** | Normal Link |
| 1 | AP Router: EUT in Y axis + Adapter |
| 2 | AP Router: EUT in Z axis + Adapter |
| Mode 1 has been evaluated to be the worst case between Mode 1~2, thus measurement for Mode 3 will follow this same test mode. | |
| 3 | AP Router: EUT in Y axis + PoE |
| For operating mode 1 is the worst case and it was record in this test report. | |
| **Operating Mode > 1GHz** | CTX |
| | The EUT was performed at Y axis and Z axis position. The worst case was found at Y axis, thus the measurement will follow this same test configuration. |
| 1 | EUT in Y axis |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Simultaneous Transmission Analysis - Radiated Emission Co-location |
| **Test Condition** | Radiated measurement |
| **Operating Mode** | Normal Link |
| **Test Mode** | Y-axis generated the worst result for Unwanted Emissions (Below 1GHz), thus the measurement will follow this same test configuration. |
| | EUT in Y axis_WLAN 2.4GHz + WLAN 5GHz |
| Refer to Appendix F for Radiated Emission Co-location. | |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation |
| **Operating Mode** | |
| 1 | WLAN 2.4GHz + WLAN 5GHz + Bluetooth |
| Refer to Sporton Test Report No.: FA0O2913-08 for Co-location RF Exposure Evaluation. | |

Note1: The console port can not be used by end-user. It is generally used for updating FW by professional installer.

Note2: The PoE below is for measurement only, would not be marketed.

The PoE information as below:

| Support Unit | Brand | Model Number |
|---|---|---|
| PoE | Cambium Networks | P060V04 |

## 2.3 EUT Operation during Test

For CTX Mode:

**<Non-beamforming mode>**

The EUT was programmed to be in continuously transmitting mode.

**<beamforming mode>**

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

## 2.4 Accessories

| Accessories | | | |
|---|---|---|---|
| **Equipment Name** | **Brand Name** | **Model Name** | **Rating** |
| Adapter | APD | WB-24J12R | Input: 100-240V~50-60Hz 0.7A Max.<br>Output: 12.0V, 2.0A 24.0W |
| **Others** | | | |
| Plug*1 | | | |
| Console cable*1: Non-Shieleded, 1.5m | | | |
| Wall-mounted*1 | | | |

## 2.5 Support Equipment

**For AC Conduction:**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | LAN NB | DELL | E6430 | N/A |
| B | 2.5G Uplink (POE) PC | DELL | T3400 | N/A |
| C | 2.4G NB | DELL | E6430 | N/A |
| D | 5G NB | DELL | E6430 | N/A |
| E | Smart phone | Samsung | Galaxy J2 | A3LSMJ200F |
| F | Flash disk3.0 | Transcend | JetFlash-700 | N/A |

**For Radiated (below 1GHz):**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | 2.4G NB | DELL | E4300 | N/A |
| B | 5G NB | DELL | E4300 | N/A |
| C | Smart phone | SamSung | Galaxy J2 | A3LSMJ200F |
| D | Flash disk3.0 | Silicon Power | B06 | N/A |
| E | Uplink (POE) NB | DELL | E4300 | N/A |
| F | LAN NB | DELL | E4300 | N/A |

**For Radiated (above 1GHz) and RF Conducted:**

**<Non-beamforming mode>**

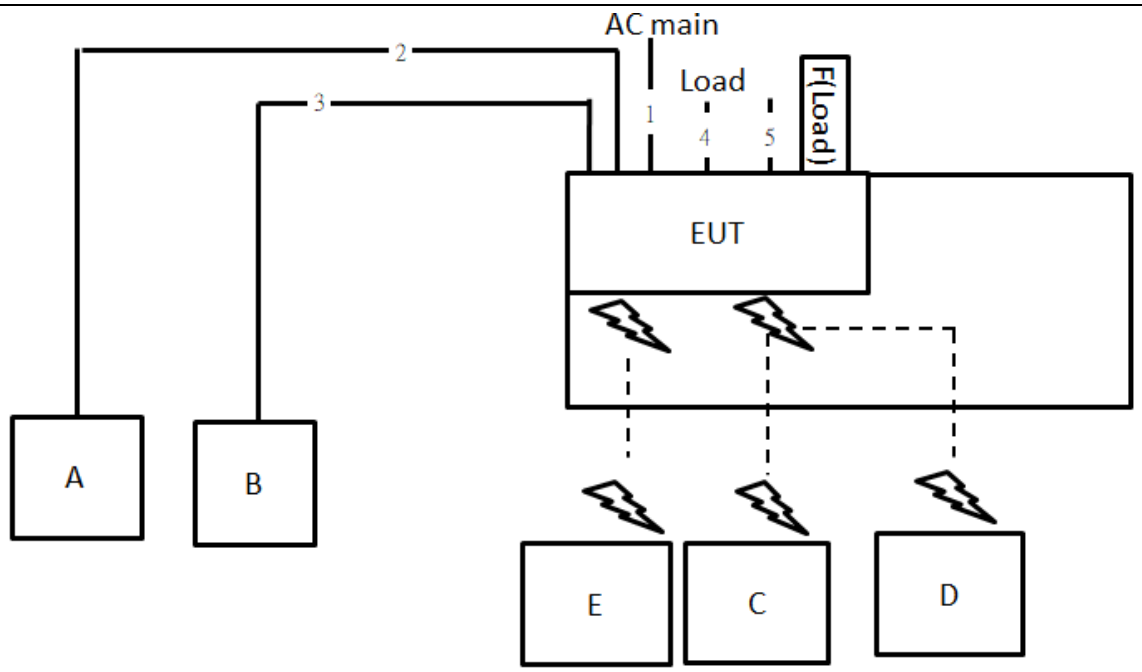
| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | NB | DELL | E4300 | N/A |

**<beamforming mode>**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | NB | DELL | E4300 | N/A |
| B | NB | DELL | E4300 | N/A |
| C | WLAN AP | Edgecore | EAP101 | N/A |

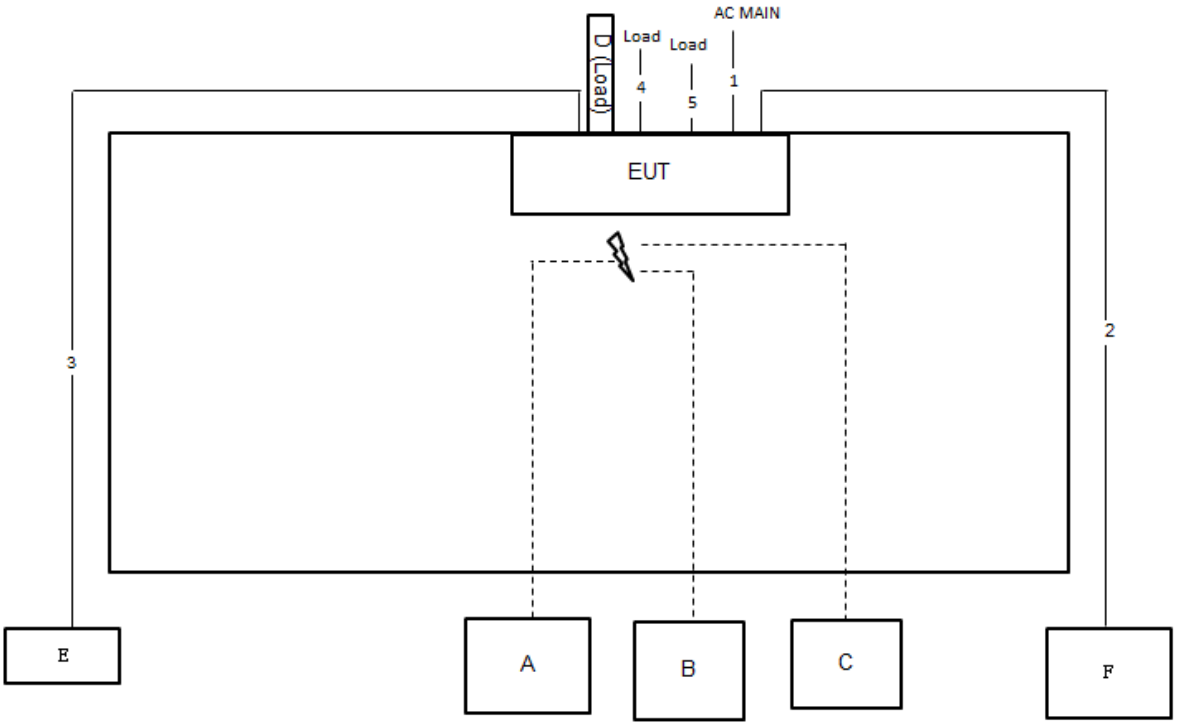
## 2.6 Test Setup Diagram

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




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1.5m |
| 2 | RJ-45 cable | No | 10m |
| 3 | RJ-45 cable | No | 10m |
| 4 | RJ-45 cable | No | 1.5m |
| 5 | Console cable | No | 1.5m |

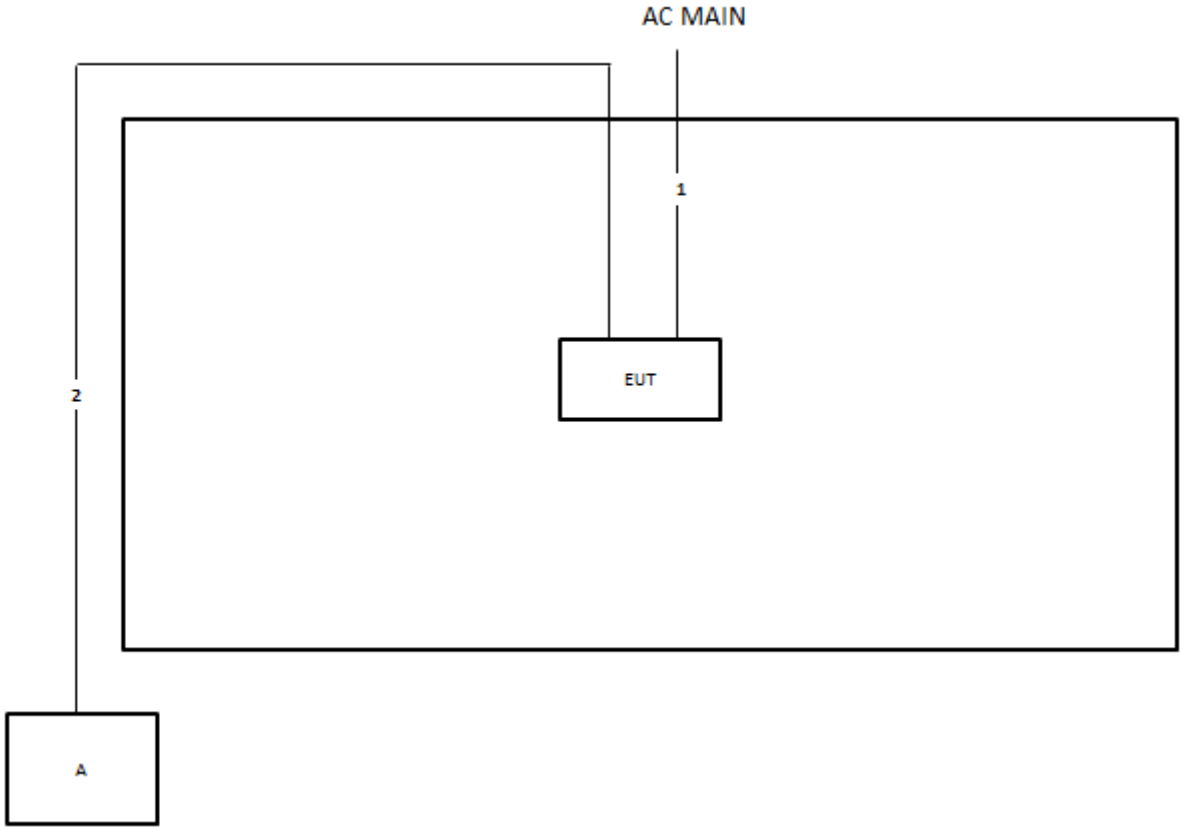
**Test Setup Diagram - Radiated Test < 1GHz**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1.5m |
| 2 | RJ-45 cable | No | 10m |
| 3 | RJ-45 cable | No | 10m |
| 4 | RJ-45 cable | No | 1.5m |
| 5 | Console cable | No | 1.5m |

**Test Setup Diagram - Radiated Test > 1GHz**

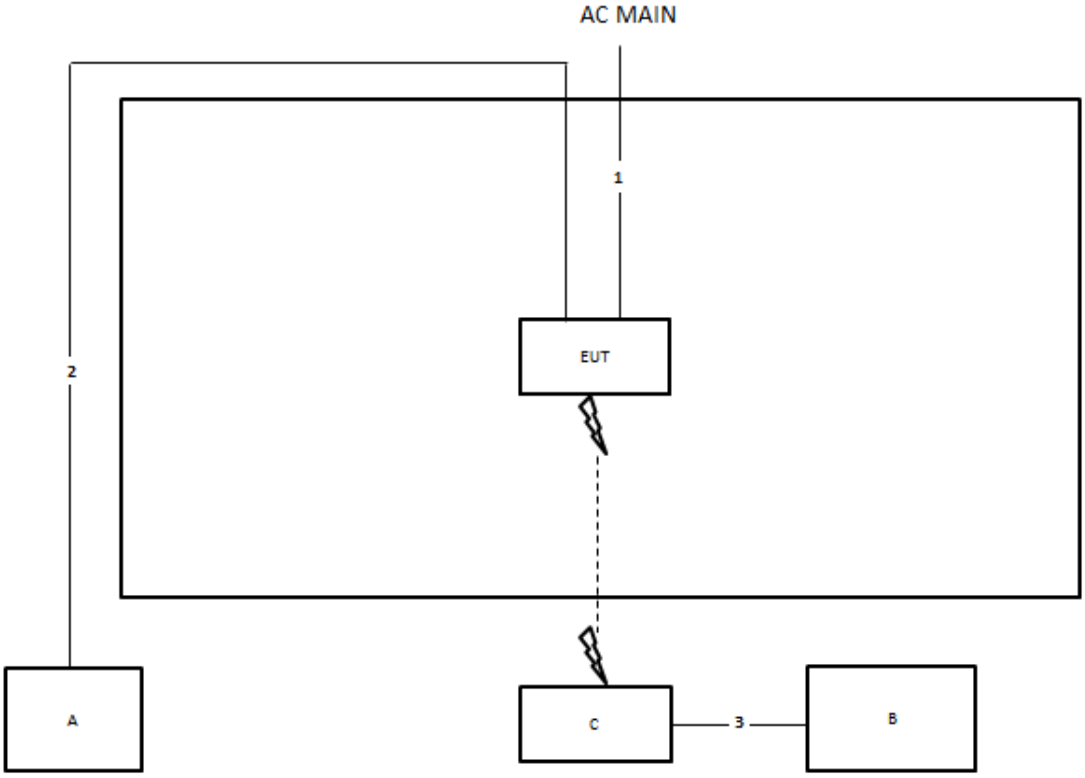
**<Non-beamforming mode>**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1.5m |
| 2 | RJ-45 cable | No | 10m |

**Test Setup Diagram - Radiated Test > 1GHz**

**<beamforming mode>**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | Power cable | No | 1.5m |
| 2 | RJ-45 cable | No | 10m |
| 3 | RJ-45 cable | No | 1.5m |

# 3 Transmitter Test Result

## 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

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

### 3.1.2 Measuring Instruments

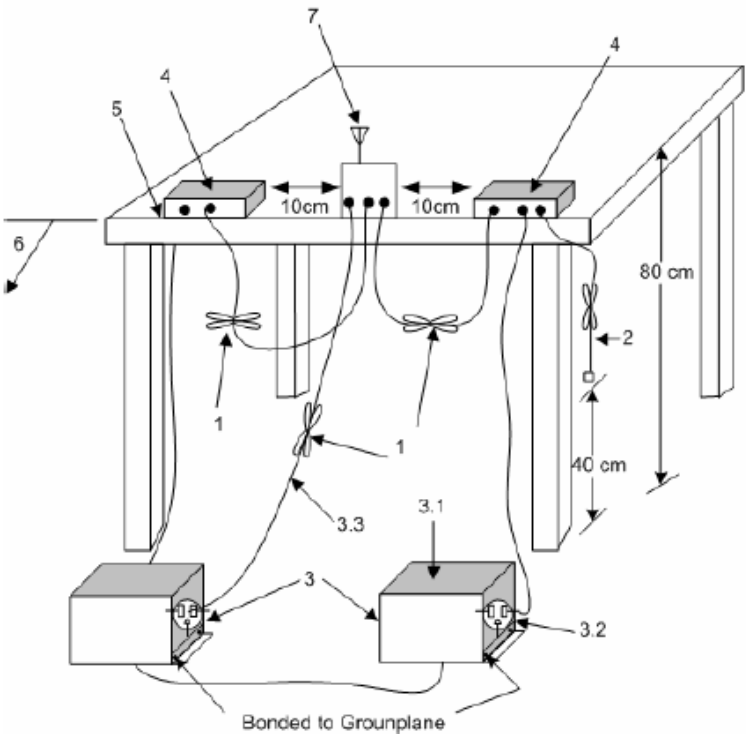
Refer a test equipment and calibration data table in this test report.

### 3.1.3 Test Procedures

| Test Method |
|---|
| ☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup

**AC Power-line Conducted Emissions**




1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

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

Refer as Appendix A

## 3.2 Emission Bandwidth

### 3.2.1 Emission Bandwidth Limit

| Emission Bandwidth Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band, N/A |
| ☐ | For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☐ | For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| ☒ | For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |
| **LE-LAN Devices** | |
| ☐ | For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| ☐ | For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz. |

### 3.2.2 Measuring Instruments

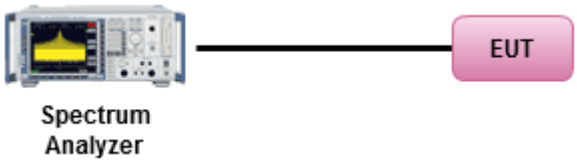
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ | For the emission bandwidth shall be measured using one of the options below: | |
| | ☒ | Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. |
| | ☐ | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| | ☐ | Refer as IC RSS-Gen, clause 4.6 for bandwidth testing. |

### 3.2.4 Test Setup

**Emission Bandwidth**




### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

## 3.3 Maximum Conducted Output Power

### 3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] |
| | ▪ Indoor AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6) |
| | ▪ Point-to-point AP: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 250 mW. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 24 – ($G_{TX}$ – 6). |
| ☐ | 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). |
| ☐ | 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). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **LE-LAN Devices** | |
| ☐ | For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| ☐ | For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz |
| ☐ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the maximum conducted output power ($P_{Out}$) shall not exceed the lesser of 1 W. |
| **$P_{Out}$** = maximum conducted output power in dBm,<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

| Test Method | |
|---|---|
| ▪ Maximum Conducted Output Power | |
| | Average over on/off periods with duty factor |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | ☐ Refer as FCC 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 |
| | ☒ Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter). |
| ▪ For conducted measurement. | |
| | ▪ If the EUT supports multiple transmit chains using options given below:<br>Refer as FCC 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. |
| | ▪ If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \ldots + P_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$ |

### 3.3.4 Test Setup

**RF Output Power (Power Meter)**

### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

## 3.4 Peak Power Spectral Density

### 3.4.1 Peak Power Spectral Density Limit

| Peak Power Spectral Density Limit | |
|---|---|
| **UNII Devices** | |
| ☒ | For the 5.15-5.25 GHz band: |
| | ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 6 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX}$ > 23 dBi, then $P_{Out}$ = 17 – ($G_{TX}$ – 23). |
| | ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6).. |
| ☐ | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). |
| ☐ | For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX}$ > 6 dBi, then PPSD= 11 – ($G_{TX}$ – 6). |
| ☒ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **LE-LAN Devices** | |
| ☐ | For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz. |
| ☐ | For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. |
| | ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:<br>-13 dBW/MHz for 0° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40°<br>-35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45° |
| ☐ | For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. |
| ☐ | For the 5.725-5.85 GHz band: |
| | ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX}$ > 6 dBi, then PPSD= 30 – ($G_{TX}$ – 6). |
| | ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| **PPSD** = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz<br>**$G_{TX}$** = the maximum transmitting antenna directional gain in dBi. | |

### 3.4.2 Measuring Instruments

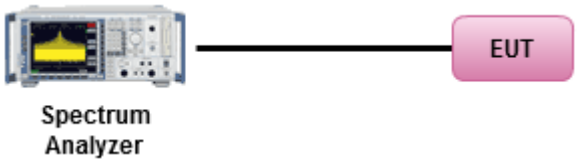
Refer a test equipment and calibration data table in this test report.

### 3.4.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: | | |
| | ☐ Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth | |
| | [duty cycle ≥ 98% or external video / power trigger] | |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). | |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) | |
| | duty cycle < 98% and average over on/off periods with duty factor | |
| | ☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). | |
| | ☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) | |
| ▪ For conducted measurement. | | |
| | ▪ If the EUT supports multiple transmit chains using options given below: | |
| | | ☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| | | ☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| | | ☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |
| | ▪ | If multiple transmit chains, EIRP PPSD calculation could be following as methods:<br>$PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$<br>(calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = PPSD_{total} + DG$ |

### 3.4.4 Test Setup

**Power Spectral Density**




### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

## 3.5 Unwanted Emissions

### 3.5.1 Transmitter 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 | all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |

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). |

### 3.5.2 Measuring Instruments

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

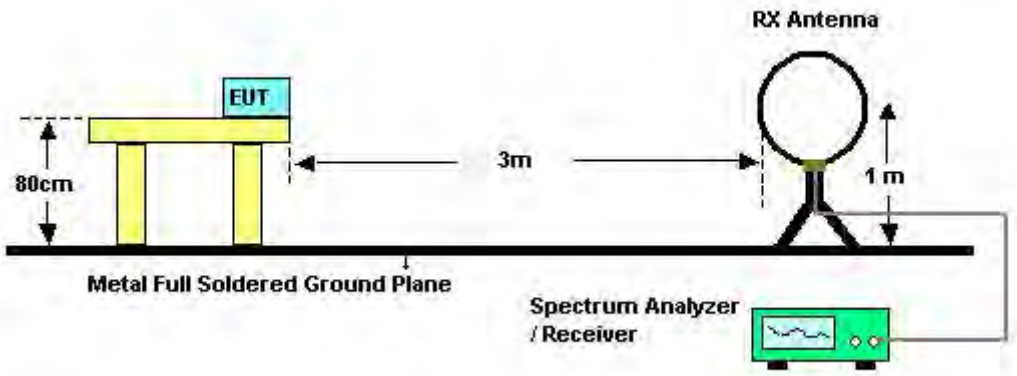
### 3.5.3 Test Procedures

| Test Method | | |
|---|---|---|
| ▪ 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). | | |
| ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | | |
| ▪ For the transmitter unwanted emissions shall be measured using following options below: | | |
| | ▪ Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands. | |
| | ▪ Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands. | |
| | | ☐ Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). |
| | | ☒ Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW). |
| | | ☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. |
| | | ☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. |
| | | ☒ Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit. |
| | | ☐ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. |
| ▪ For radiated measurement. | | |
| | ▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m. | |
| | ▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m. | |
| | ▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. | |
| ▪ The any unwanted emissions level shall not exceed the fundamental emission level. | | |
| ▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported. | | |

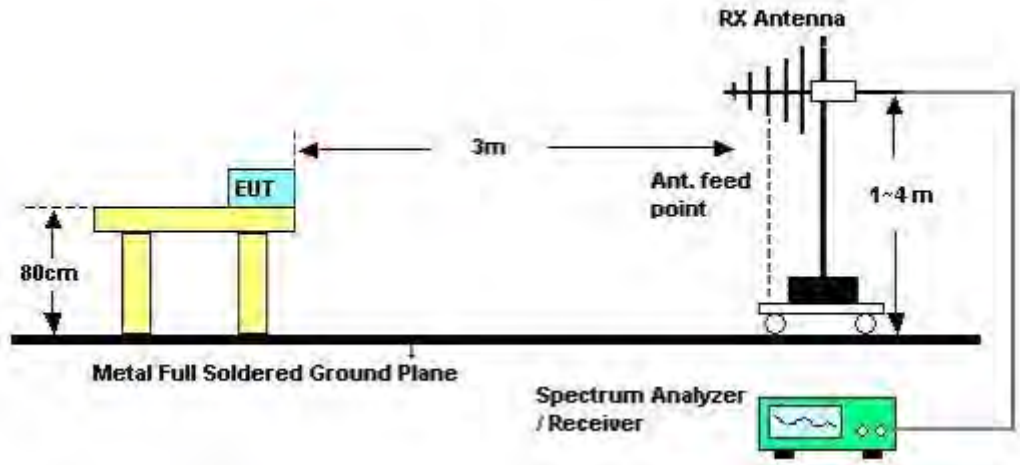
### 3.5.4 Test Setup

**Transmitter Radiated Unwanted Emissions**

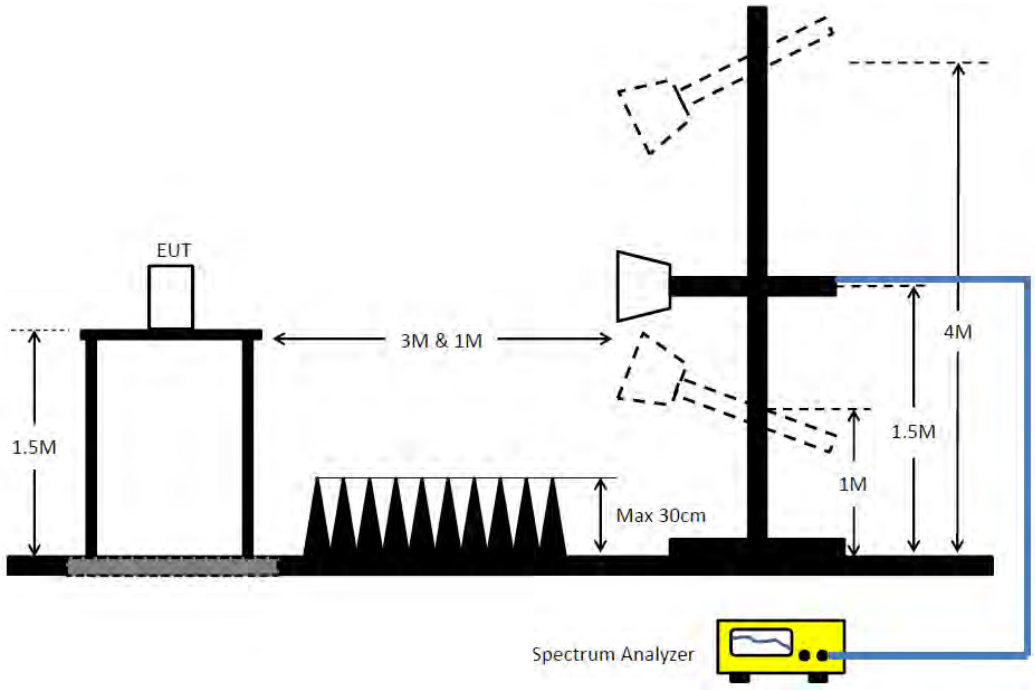
**9kHz ~30MHz**




**30MHz~1GHz**



**Above 1GHz**




### 3.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

### 3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

# 4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| EMI Receiver | Agilent | N9038A | My52260123 | 9kHz ~ 8.4GHz | Mar. 03, 2021 | Mar. 02, 2022 | Conduction (CO01-CB) |
| LISN | F.C.C. | FCC-LISN-50-16-2 | 04083 | 150kHz~100MHz | Jan. 06, 2021 | Jan. 05, 2022 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127478 | 9kHz ~ 30MHz | Nov. 20, 2020 | Nov. 19, 2021 | Conduction (CO01-CB) |
| Pulse Limiter | Rohde& Schwarz | ESH3-Z2 | 100430 | 9kHz ~ 30MHz | Jan. 30, 2021 | Jan. 29, 2022 | Conduction (CO01-CB) |
| COND Cable | Woken | Cable | Low cable-CO01 | 9kHz ~ 30MHz | May 20, 2020 | May 19, 2021 | Conduction (CO01-CB) |
| Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conduction (CO01-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Apr. 13, 2020 | Apr. 12, 2021 | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber NSA | TDK | SAC-3M | 03CH05-CB | 30 MHz ~ 1 GHz | Aug. 10, 2020 | Aug. 09, 2021 | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH05-CB | 1GHz ~18GHz 3m | Nov. 08, 2020 | Nov. 07, 2021 | Radiation (03CH05-CB) |
| Bilog Antenna with 6dB Attenuator | TESEQ & EMCI | CBL 6112D & N-6-06 | 35236 & AT-N0610 | 30MHz ~ 2GHz | Mar. 27, 2020 | Mar. 26, 2021 | Radiation (03CH05-CB) |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA 9120 D-1291 | 1GHz~18GHz | Sep. 05, 2020 | Sep. 04, 2021 | Radiation (03CH05-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH05-CB) |
| Pre-Amplifier | EMCI | EMC330N | 980331 | 20MHz ~ 3GHz | Apr. 28, 2020 | Apr. 27, 2021 | Radiation (03CH05-CB) |
| Pre-Amplifier | EMCI | EMC12630SE | 980287 | 1GHz – 26.5GHz | Jul. 03, 2020 | Jul. 02, 2021 | Radiation (03CH05-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH05-CB) |
| Signal Analyzer | R&S | FSV40 | 101904 | 9kHz ~ 40GHz | May 12, 2020 | May 11, 2021 | Radiation (03CH05-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100304 | 9kHz ~ 40GHz | Nov. 10, 2020 | Nov. 09, 2021 | Radiation (03CH05-CB) |
| EMI Test Receiver | R&S | ESCS | 826547/017 | 9kHz ~ 2.75GHz | May 13, 2020 | May 12, 2021 | Radiation (03CH05-CB) |
| RF Cable-low | Woken | RG402 | Low Cable-04+23 | 30MHz~1GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH05-CB) |
| RF Cable-high | Woken | RG402 | High Cable-28 | 1GHz~18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH05-CB) |
| RF Cable-high | Woken | RG402 | High Cable-04+28 | 1GHz~18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH05-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH05-CB) |

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH05-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH05-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH01-CB | 1GHz ~18GHz 3m | May 29, 2020 | May 28, 2021 | Radiation (03CH01-CB) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D 1370 | 1GHz~18GHz | Sep. 21, 2020 | Sep. 20, 2021 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 08, 2020 | Jan. 07, 2021 | Radiation (03CH01-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Apr. 16, 2020 | Apr. 15, 2021 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-16 | 1 GHz ~ 18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-16+17 | 1 GHz ~ 18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH01-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH01-CB) |
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH04-CB | 1GHz ~18GHz 3m | Feb. 26, 2020 | Feb. 25, 2021 | Radiation (03CH04-CB) |
| Horn Antenna | ETS・Lindgren | 3115 | 00143147 | 750MHz~18GHz | Oct. 23, 2020 | Oct. 22, 2021 | Radiation (03CH04-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH04-CB) |
| Pre-Amplifier | Agilent | 83017A | MY53270063 | 0.5GHz ~ 26.5GHz | Jul. 14, 2020 | Jul. 13, 2021 | Radiation (03CH04-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH04-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100142 | 9kHz~40GHz | Dec. 18, 2019 | Dec. 17, 2020 | Radiation (03CH04-CB |
| RF Cable-high | Woken | RG402 | High Cable-21 | 1GHz - 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH04-CB) |
| RF Cable-high | Woken | RG402 | High Cable-21+67 | 1GHz - 18GHz | Nov. 05, 2020 | Nov. 04, 2021 | Radiation (03CH04-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH04-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH04-CB) |

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH06-CB | 1GHz ~18GHz 3m | Oct. 02, 2020 | Oct. 01, 2021 | Radiation (03CH06-CB) |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA 9120D-1292 | 1GHz~18GHz | Jul. 22, 2020 | Jul. 21, 2021 | Radiation (03CH06-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH06-CB) |
| Pre-Amplifier | Agilent | 83017A | MY53270064 | 0.5GHz ~ 26.5GHz | May 07, 2020 | May 06, 2021 | Radiation (03CH06-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH06-CB) |
| Signal Analyzer | R&S | FSV40 | 101904 | 9kHz ~ 40GHz | May 12, 2020 | May 11, 2021 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-05 | 1GHz~18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-05+24 | 1GHz~18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH06-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH06-CB) |
| Spectrum analyzer | R&S | FSV40 | 101027 | 9kHz~40GHz | Jul. 27, 2020 | Jul. 26, 2021 | Conducted (TH02-CB) |
| Power Sensor | Anritsu | MA2411B | 1126203 | 300MHz~40GHz | Sep. 17, 2020 | Sep. 16, 2021 | Conducted (TH02-CB) |
| Power Meter | Anritsu | ML2495A | 1210004 | 300MHz~40GHz | Sep. 17, 2020 | Sep. 16, 2021 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-01 | 1 GHz – 26.5 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-02 | 1 GHz – 26.5 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-03 | 1 GHz – 26.5 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-04 | 1 GHz – 26.5 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH02-CB) |
| RF Cable-high | Woken | RG402 | High Cable-05 | 1 GHz – 26.5 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH02-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conducted (TH02-CB) |

Note: Calibration Interval of instruments listed above is one year.

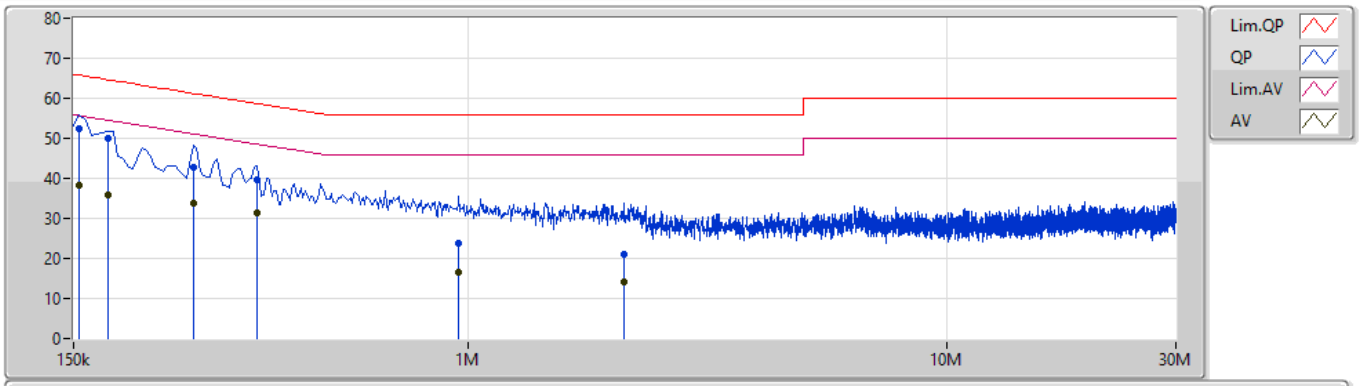
N.C.R. means Non-Calibration required.

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | QP | 150k | 57.34 | 66.00 | -8.66 | Neutral |

## Mode 1

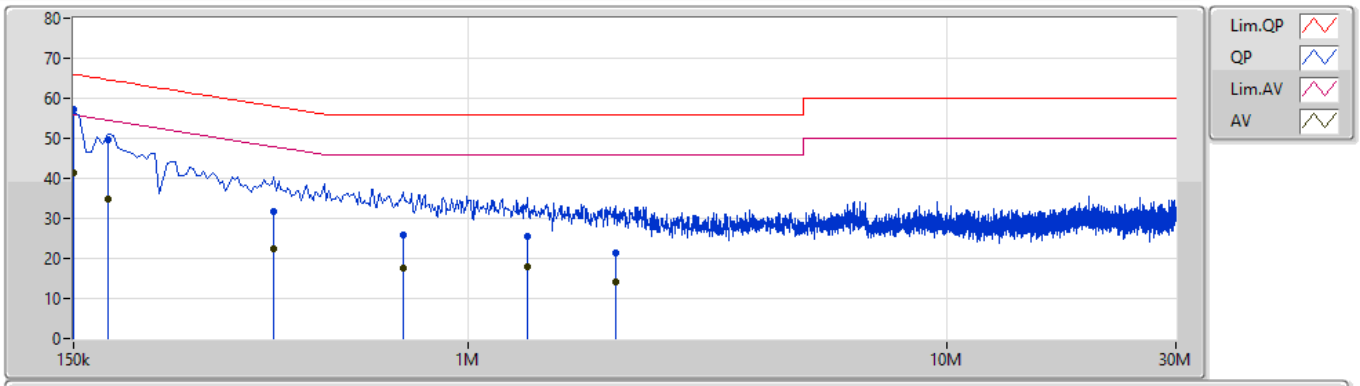
18/03/2021




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 154.5k | 52.27 | 65.75 | -13.48 | 9.88 | Line | "Worst" | 42.39 | 0.04 | 0.03 | 9.81 |
| AV | 154.5k | 38.21 | 55.75 | -17.54 | 9.88 | Line | - | 28.33 | 0.04 | 0.03 | 9.81 |
| QP | 177k | 49.97 | 64.62 | -14.65 | 9.88 | Line | - | 40.09 | 0.04 | 0.03 | 9.81 |
| AV | 177k | 35.95 | 54.62 | -18.67 | 9.88 | Line | - | 26.07 | 0.04 | 0.03 | 9.81 |
| QP | 267k | 42.88 | 61.20 | -18.32 | 9.88 | Line | - | 33.00 | 0.04 | 0.03 | 9.81 |
| AV | 267k | 33.82 | 51.20 | -17.38 | 9.88 | Line | - | 23.94 | 0.04 | 0.03 | 9.81 |
| QP | 361.5k | 39.71 | 58.70 | -18.99 | 9.89 | Line | - | 29.82 | 0.04 | 0.03 | 9.82 |
| AV | 361.5k | 31.46 | 48.70 | -17.24 | 9.89 | Line | - | 21.57 | 0.04 | 0.03 | 9.82 |
| QP | 955.5k | 23.70 | 56.00 | -32.30 | 9.93 | Line | - | 13.77 | 0.06 | 0.04 | 9.83 |
| AV | 955.5k | 16.70 | 46.00 | -29.30 | 9.93 | Line | - | 6.77 | 0.06 | 0.04 | 9.83 |
| QP | 2.117M | 20.97 | 56.00 | -35.03 | 9.98 | Line | - | 10.99 | 0.09 | 0.07 | 9.82 |
| AV | 2.117M | 14.24 | 46.00 | -31.76 | 9.98 | Line | - | 4.26 | 0.09 | 0.07 | 9.82 |

## Mode 1

18/03/2021




| Type | Freq | Level | Limit | Margin | Factor | Condition | Comment | Raw | LISN | CL | AT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV) | (dBuV) | (dB) | (dB) | | | (dBuV) | (dB) | (dB) | (dB) |
| QP | 150k | 57.34 | 66.00 | -8.66 | 9.87 | Neutral | "Worst" | 47.47 | 0.03 | 0.03 | 9.81 |
| AV | 150k | 41.37 | 56.00 | -14.63 | 9.87 | Neutral | - | 31.50 | 0.03 | 0.03 | 9.81 |
| QP | 177k | 49.80 | 64.62 | -14.82 | 9.87 | Neutral | - | 39.93 | 0.03 | 0.03 | 9.81 |
| AV | 177k | 34.92 | 54.62 | -19.70 | 9.87 | Neutral | - | 25.05 | 0.03 | 0.03 | 9.81 |
| QP | 393k | 31.80 | 58.01 | -26.21 | 9.88 | Neutral | - | 21.92 | 0.03 | 0.03 | 9.82 |
| AV | 393k | 22.45 | 48.01 | -25.56 | 9.88 | Neutral | - | 12.57 | 0.03 | 0.03 | 9.82 |
| QP | 730.5k | 25.81 | 56.00 | -30.19 | 9.91 | Neutral | - | 15.90 | 0.04 | 0.04 | 9.83 |
| AV | 730.5k | 17.68 | 46.00 | -28.32 | 9.91 | Neutral | - | 7.77 | 0.04 | 0.04 | 9.83 |
| QP | 1.329M | 25.62 | 56.00 | -30.38 | 9.94 | Neutral | - | 15.68 | 0.06 | 0.05 | 9.83 |
| AV | 1.329M | 17.95 | 46.00 | -28.05 | 9.94 | Neutral | - | 8.01 | 0.06 | 0.05 | 9.83 |
| QP | 2.027M | 21.21 | 56.00 | -34.79 | 9.96 | Neutral | - | 11.25 | 0.07 | 0.07 | 9.82 |
| AV | 2.027M | 14.14 | 46.00 | -31.86 | 9.96 | Neutral | - | 4.18 | 0.07 | 0.07 | 9.82 |

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 20.7M | 16.372M | 16M4D1D | 20.1M | 16.372M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 22.11M | 18.951M | 19M0D1D | 21.42M | 18.891M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 41.16M | 37.781M | 37M8D1D | 40.86M | 37.661M |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 81.84M | 77.121M | 77M1D1D | 81.84M | 77.001M |
| 5.725-5.85GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 16.29M | 28.126M | 28M1D1D | 15.9M | 18.231M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 18.57M | 20.21M | 20M2D1D | 17.28M | 18.981M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 37.86M | 37.781M | 37M8D1D | 37.5M | 37.721M |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 77.16M | 77.241M | 77M2D1D | 76.32M | 77.241M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

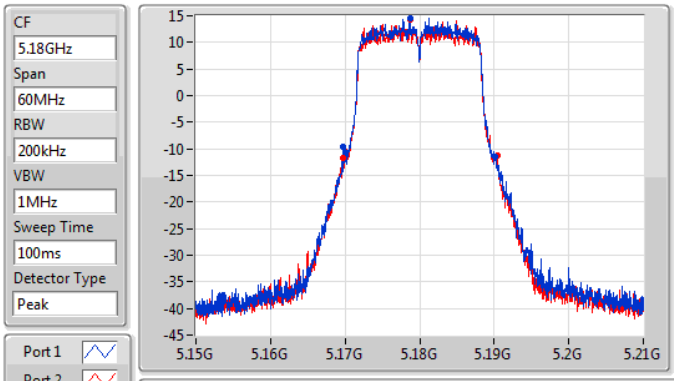
| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | Inf | 20.37M | 16.372M | 20.64M | 16.372M |
| 5200MHz | Pass | Inf | 20.28M | 16.372M | 20.7M | 16.372M |
| 5240MHz | Pass | Inf | 20.1M | 16.372M | 20.52M | 16.372M |
| 5745MHz | Pass | 500k | 16.29M | 20.84M | 15.9M | 22.519M |
| 5785MHz | Pass | 500k | 16.02M | 18.231M | 16.23M | 21.109M |
| 5825MHz | Pass | 500k | 16.29M | 21.289M | 16.29M | 28.126M |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | Inf | 21.54M | 18.921M | 21.54M | 18.921M |
| 5200MHz | Pass | Inf | 22.11M | 18.951M | 21.42M | 18.891M |
| 5240MHz | Pass | Inf | 21.63M | 18.921M | 21.45M | 18.921M |
| 5745MHz | Pass | 500k | 18.57M | 19.55M | 17.28M | 20.21M |
| 5785MHz | Pass | 500k | 18.24M | 19.19M | 18.33M | 19.43M |
| 5825MHz | Pass | 500k | 17.88M | 18.981M | 17.94M | 19.01M |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | Inf | 40.86M | 37.721M | 41.16M | 37.721M |
| 5230MHz | Pass | Inf | 41.1M | 37.661M | 41.04M | 37.781M |
| 5755MHz | Pass | 500k | 37.86M | 37.721M | 37.8M | 37.781M |
| 5795MHz | Pass | 500k | 37.5M | 37.781M | 37.5M | 37.721M |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | Inf | 81.84M | 77.001M | 81.84M | 77.121M |
| 5775MHz | Pass | 500k | 77.16M | 77.241M | 76.32M | 77.241M |

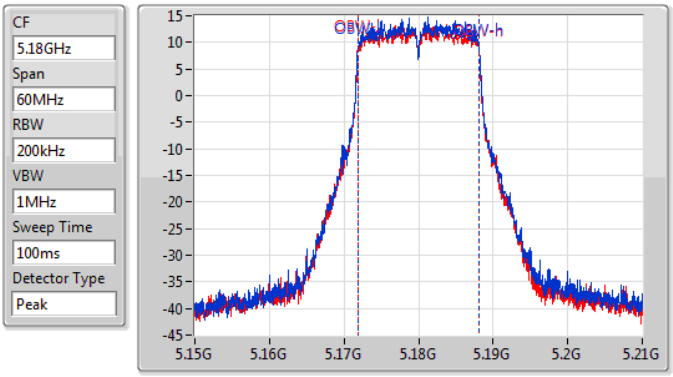
**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

## 802.11a_Nss1,(6Mbps)_2TX EBW

### 5180MHz

18/11/2020



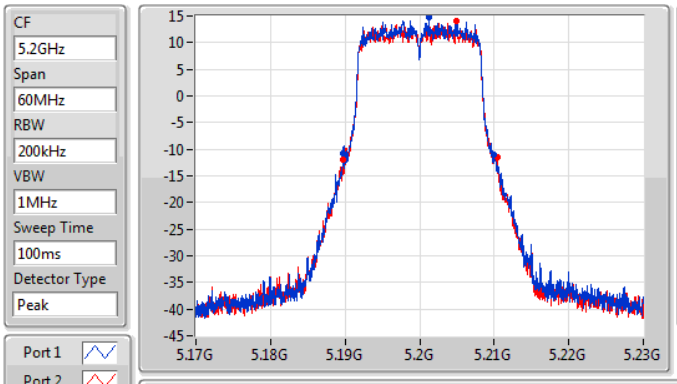



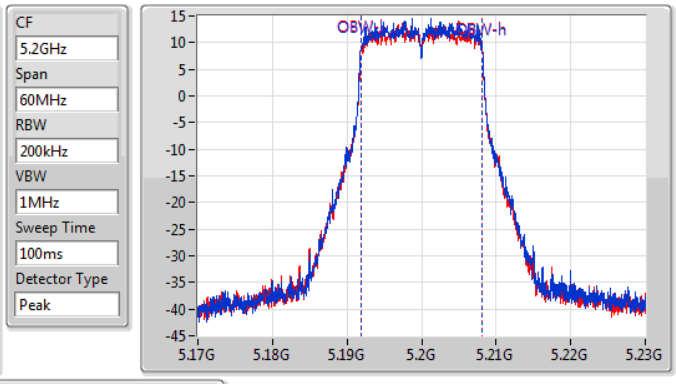

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 20.37M | 5.1698G | 5.19017G | 16.372M | 5.171814G | 5.188186G | Inf | 1 |
| 20.64M | 5.16977G | 5.19041G | 16.372M | 5.171814G | 5.188186G | Inf | 2 |

## 802.11a_Nss1,(6Mbps)_2TX EBW

### 5200MHz

18/11/2020



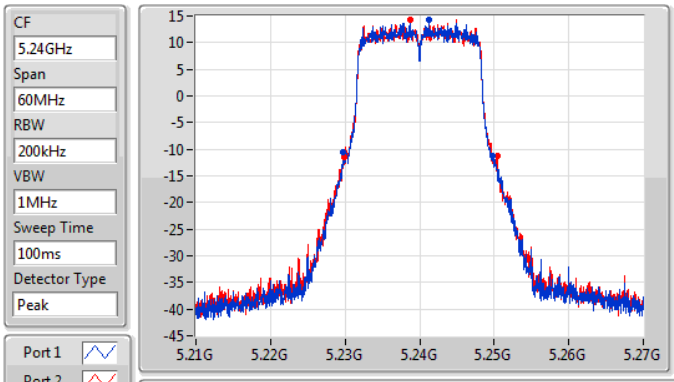



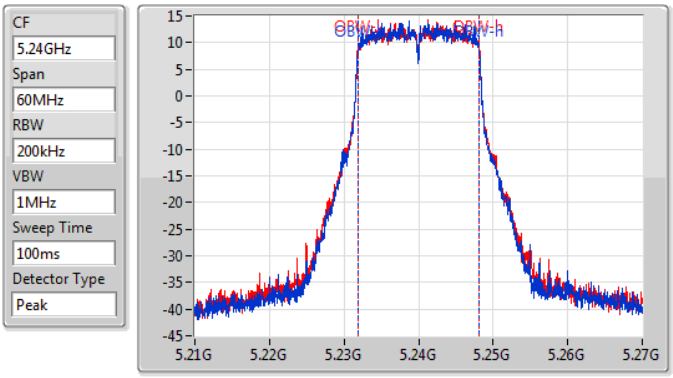

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 20.28M | 5.18974G | 5.21002G | 16.372M | 5.191814G | 5.208186G | Inf | 1 |
| 20.7M | 5.18974G | 5.21044G | 16.372M | 5.191814G | 5.208186G | Inf | 2 |

## 802.11a_Nss1,(6Mbps)_2TX EBW

### 5240MHz

18/11/2020



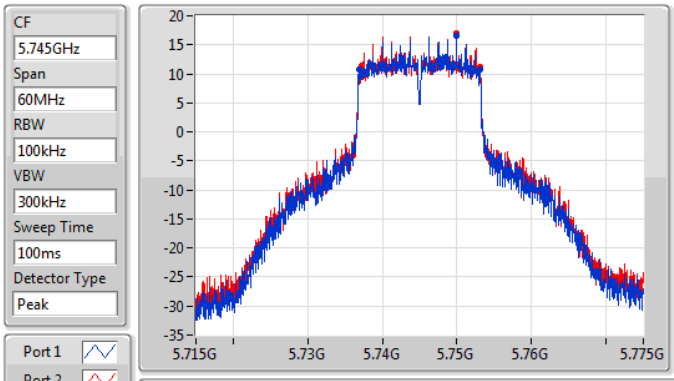



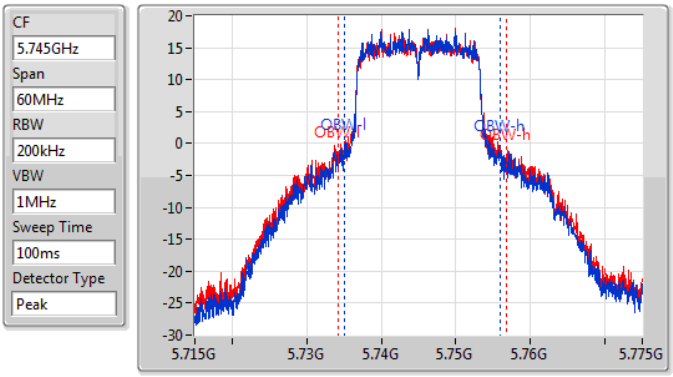

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 20.1M | 5.22974G | 5.24984G | 16.372M | 5.231814G | 5.248186G | Inf | 1 |
| 20.52M | 5.22989G | 5.25041G | 16.372M | 5.231814G | 5.248186G | Inf | 2 |

## 802.11a_Nss1,(6Mbps)_2TX EBW

### 5745MHz

18/11/2020



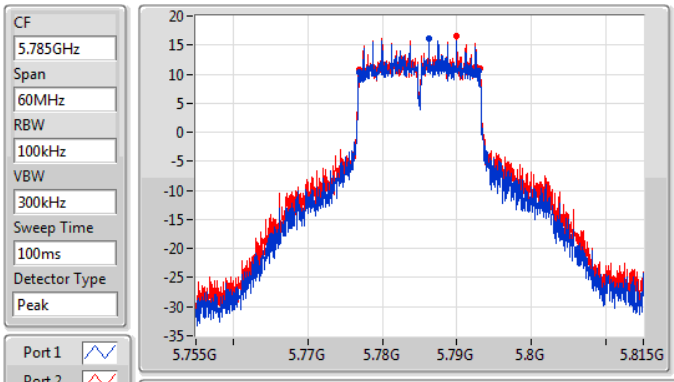



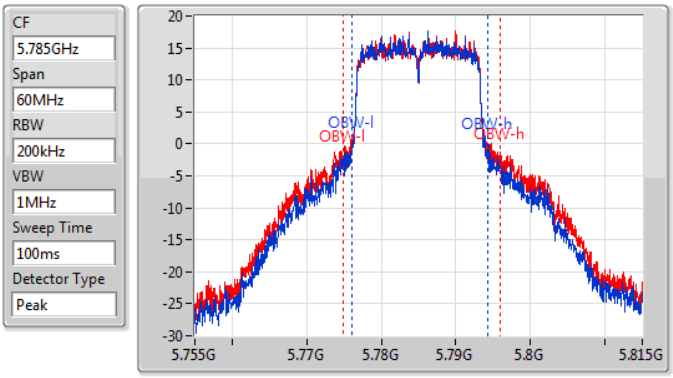

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.29M | 5.73684G | 5.75313G | 20.84M | 5.735045G | 5.755885G | 500k | 1 |
| 15.9M | 5.73723G | 5.75313G | 22.519M | 5.734235G | 5.756754G | 500k | 2 |

## 802.11a_Nss1,(6Mbps)_2TX EBW

### 5785MHz

18/11/2020



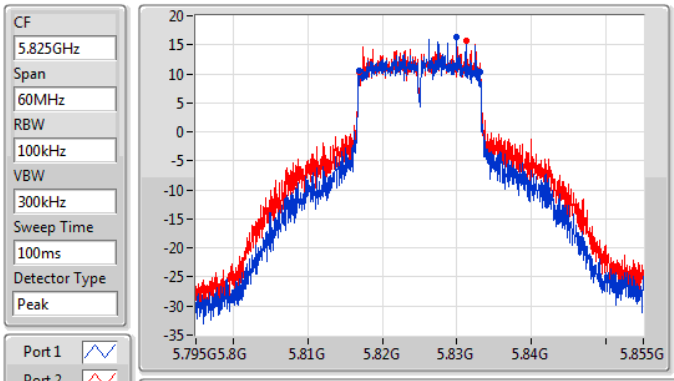



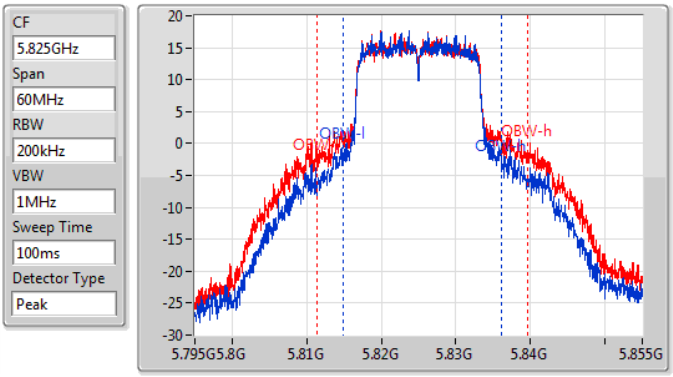

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.02M | 5.77684G | 5.79286G | 18.231M | 5.776094G | 5.794325G | 500k | 1 |
| 16.23M | 5.77687G | 5.7931G | 21.109M | 5.774865G | 5.795975G | 500k | 2 |

## 802.11a_Nss1,(6Mbps)_2TX EBW

### 5825MHz

18/11/2020



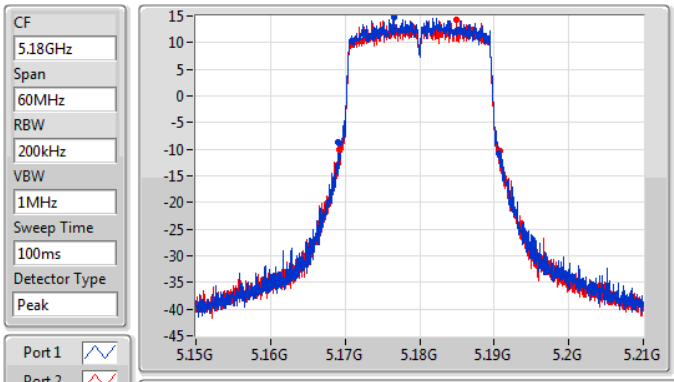



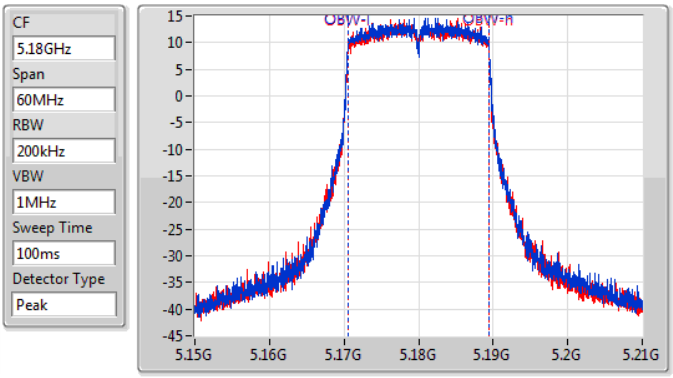

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 16.29M | 5.81684G | 5.83313G | 21.289M | 5.814895G | 5.836184G | 500k | 1 |
| 16.29M | 5.81684G | 5.83313G | 28.126M | 5.811417G | 5.839543G | 500k | 2 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX EBW

### 5180MHz

18/11/2020



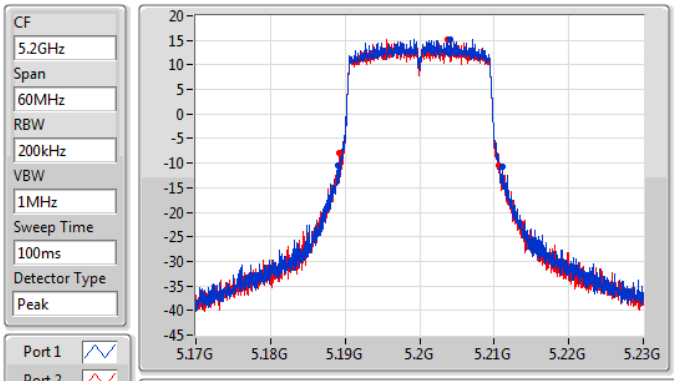



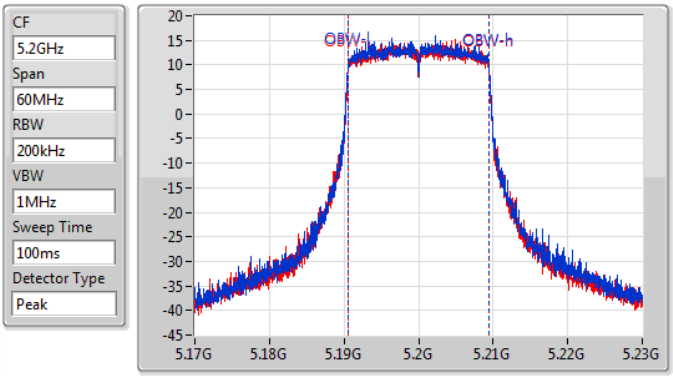

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.54M | 5.16911G | 5.19065G | 18.921M | 5.170525G | 5.189445G | Inf | 1 |
| 21.54M | 5.16917G | 5.19071G | 18.921M | 5.170525G | 5.189445G | Inf | 2 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX EBW

### 5200MHz

18/11/2020



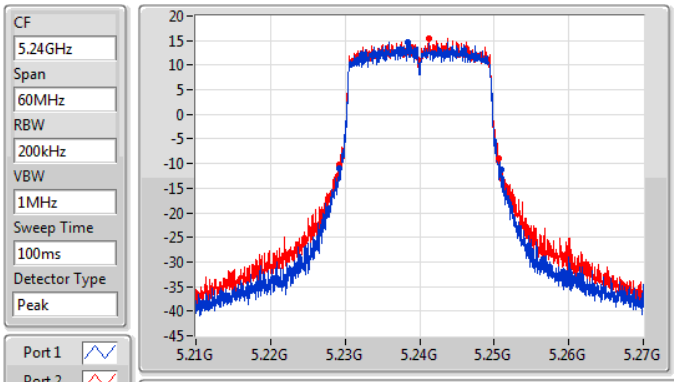



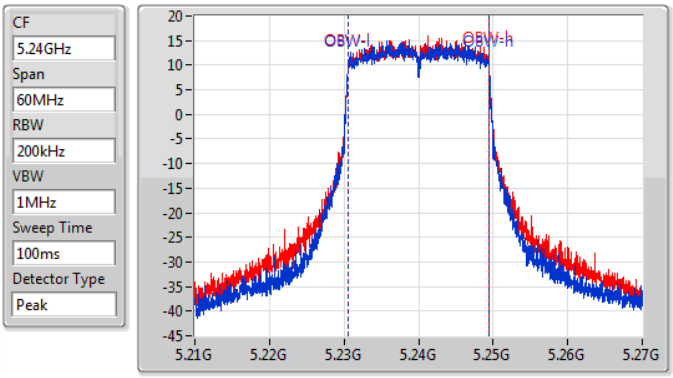

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 22.11M | 5.18908G | 5.21119G | 18.951M | 5.190525G | 5.209475G | Inf | 1 |
| 21.42M | 5.18923G | 5.21065G | 18.891M | 5.190555G | 5.209445G | Inf | 2 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX EBW

### 5240MHz

18/11/2020



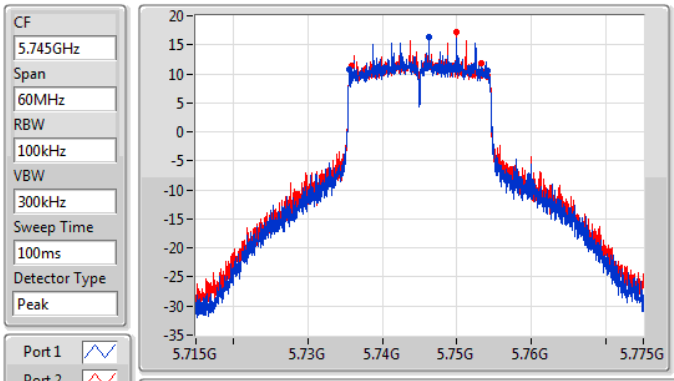



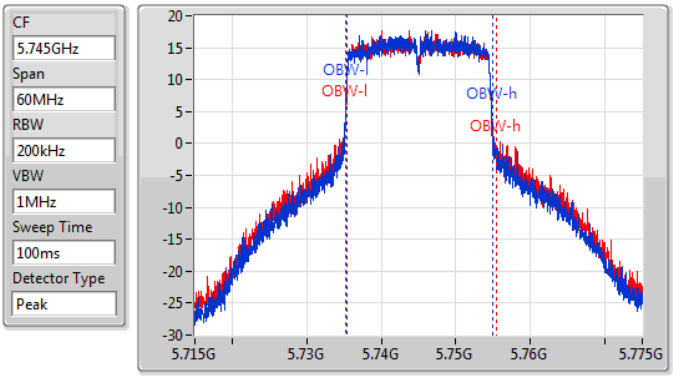

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.63M | 5.22929G | 5.25092G | 18.921M | 5.230525G | 5.249445G | Inf | 1 |
| 21.45M | 5.22917G | 5.25062G | 18.921M | 5.230525G | 5.249445G | Inf | 2 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX EBW

### 5745MHz

18/11/2020



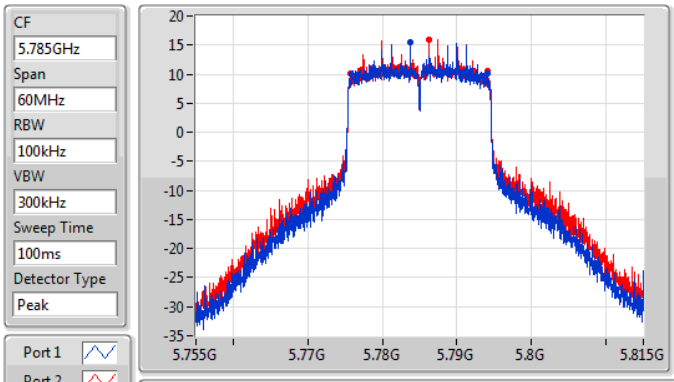



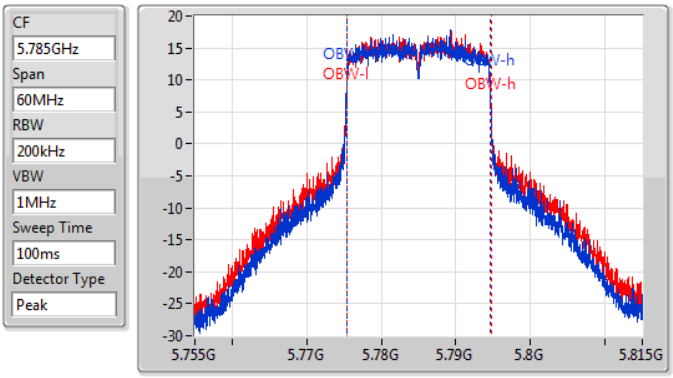

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.57M | 5.73558G | 5.75415G | 19.55M | 5.735315G | 5.754865G | 500k | 1 |
| 17.28M | 5.73594G | 5.75322G | 20.21M | 5.735165G | 5.755375G | 500k | 2 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX EBW

### 5785MHz

18/11/2020



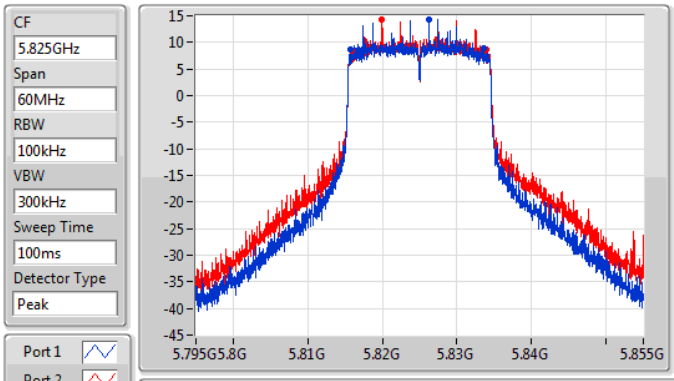



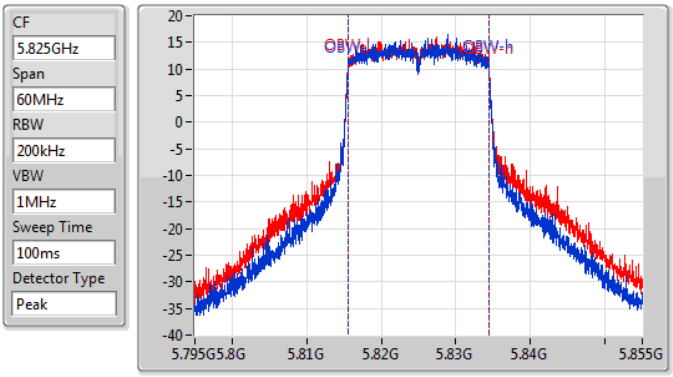

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.24M | 5.77591G | 5.79415G | 19.19M | 5.775405G | 5.794595G | 500k | 1 |
| 18.33M | 5.77576G | 5.79409G | 19.43M | 5.775315G | 5.794745G | 500k | 2 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX EBW

### 5825MHz

18/11/2020



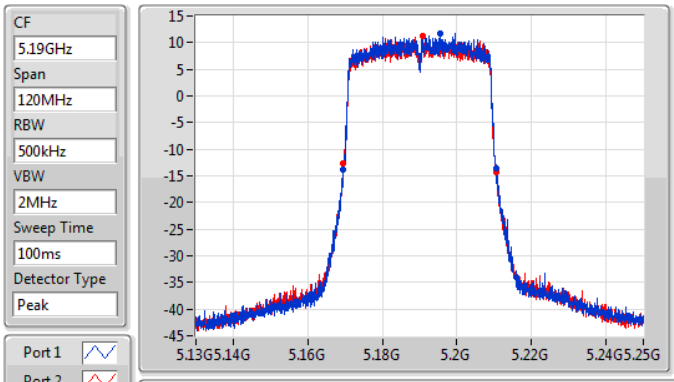



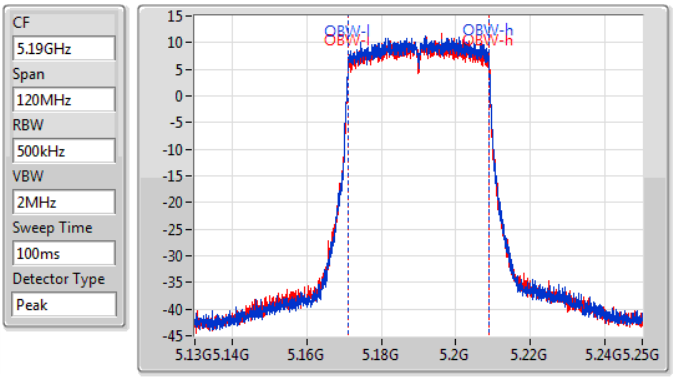

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 17.88M | 5.81579G | 5.83367G | 18.981M | 5.815495G | 5.834475G | 500k | 1 |
| 17.94M | 5.81597G | 5.83391G | 19.01M | 5.815495G | 5.834505G | 500k | 2 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX EBW

### 5190MHz

18/11/2020



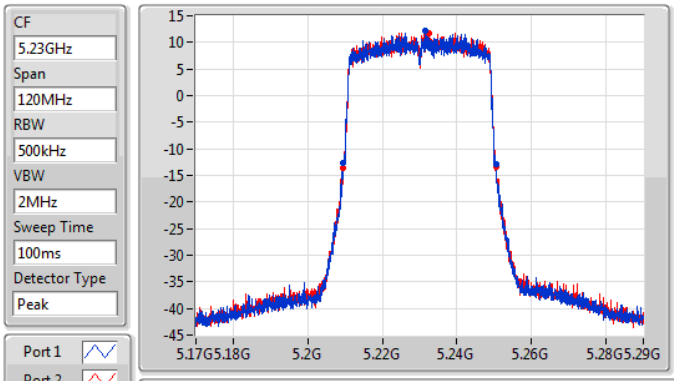



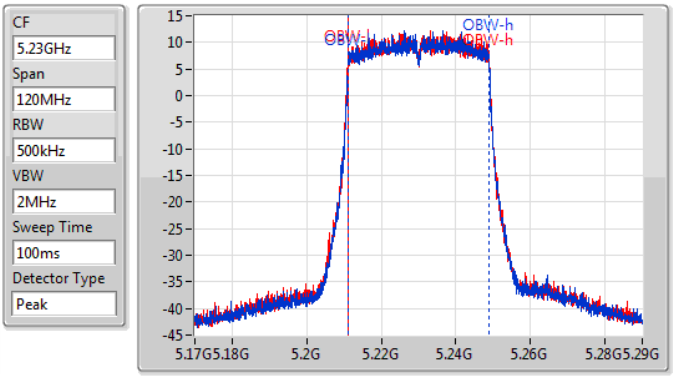

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 40.86M | 5.16954G | 5.2104G | 37.721M | 5.171169G | 5.208891G | Inf | 1 |
| 41.16M | 5.16954G | 5.2107G | 37.721M | 5.171169G | 5.208891G | Inf | 2 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX EBW

### 5230MHz

18/11/2020



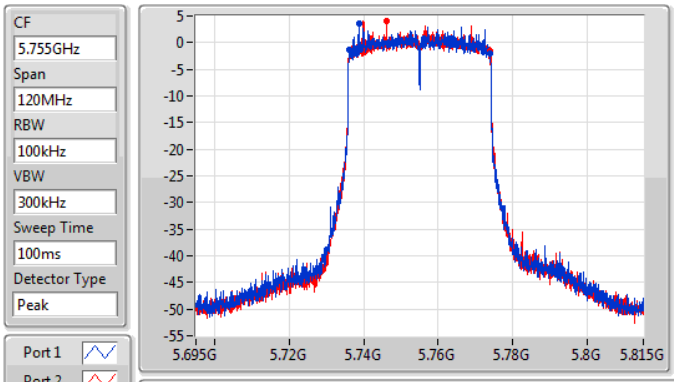



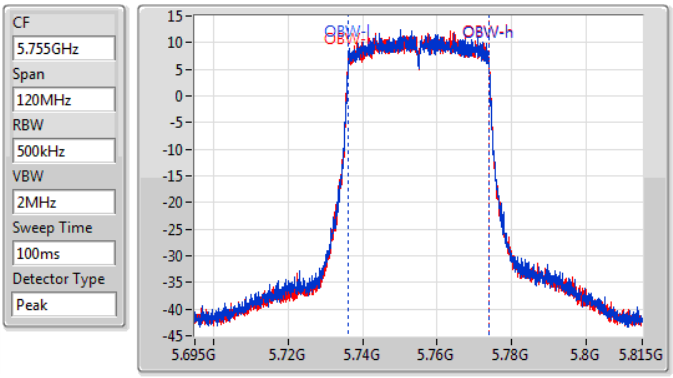

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 41.1M | 5.20936G | 5.25046G | 37.661M | 5.211169G | 5.248831G | Inf | 1 |
| 41.04M | 5.20948G | 5.25052G | 37.781M | 5.211109G | 5.248891G | Inf | 2 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX EBW

### 5755MHz

18/11/2020



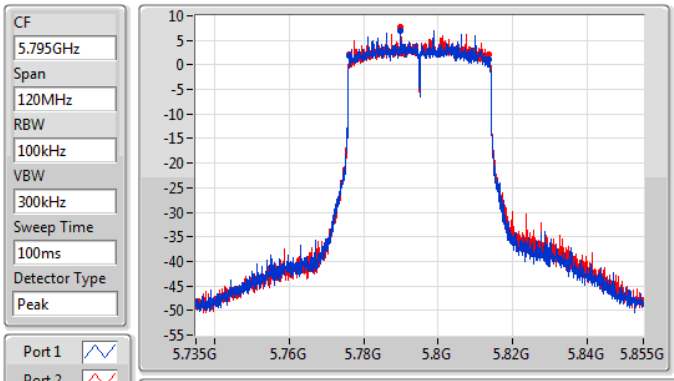



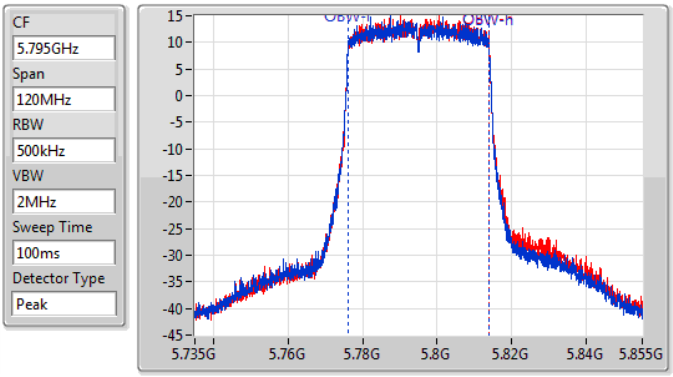

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.86M | 5.7361G | 5.77396G | 37.721M | 5.736109G | 5.773831G | 500k | 1 |
| 37.8M | 5.7361G | 5.7739G | 37.781M | 5.736109G | 5.773891G | 500k | 2 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX EBW

### 5795MHz

18/11/2020



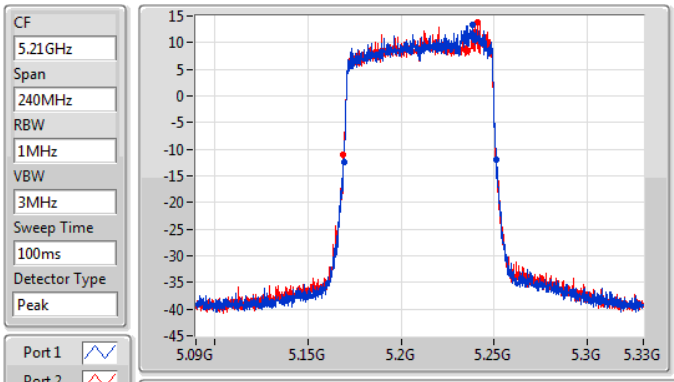



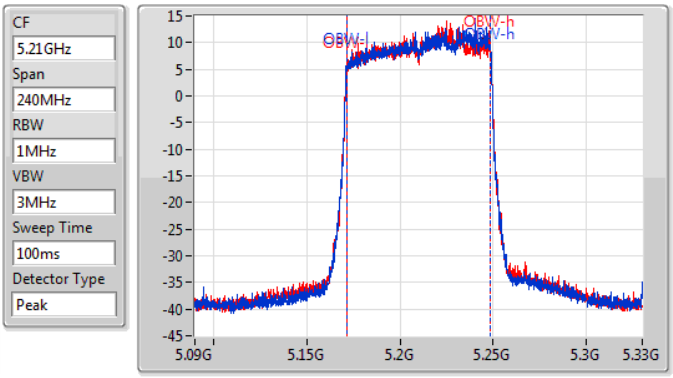

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.5M | 5.77616G | 5.81366G | 37.781M | 5.776109G | 5.813891G | 500k | 1 |
| 37.5M | 5.77616G | 5.81366G | 37.721M | 5.776169G | 5.813891G | 500k | 2 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX EBW

### 5210MHz

18/11/2020



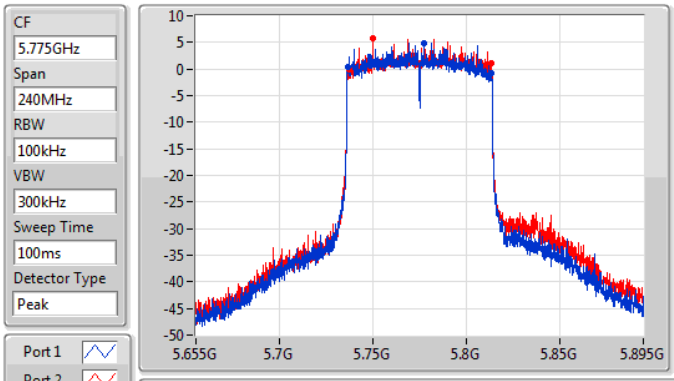



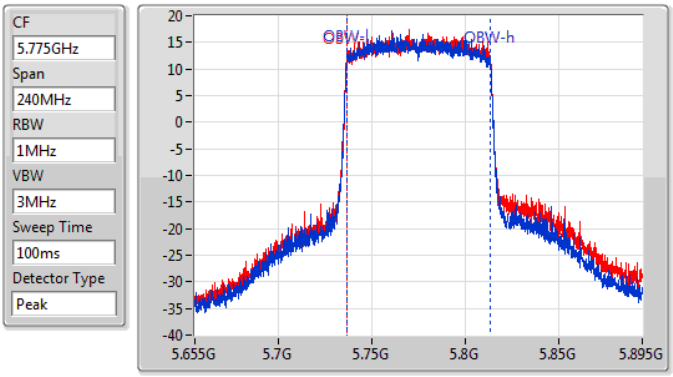

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 81.84M | 5.16932G | 5.25116G | 77.001M | 5.171739G | 5.248741G | Inf | 1 |
| 81.84M | 5.16908G | 5.25092G | 77.121M | 5.171619G | 5.248741G | Inf | 2 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX EBW

### 5775MHz

18/11/2020




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 77.16M | 5.73624G | 5.8134G | 77.241M | 5.736379G | 5.813621G | 500k | 1 |
| 76.32M | 5.7372G | 5.81352G | 77.241M | 5.736379G | 5.813621G | 500k | 2 |

## Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 21.84M | 18.921M | 18M9D1D | 21.27M | 18.891M |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 41.52M | 37.721M | 37M7D1D | 40.98M | 37.661M |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 81.36M | 77.121M | 77M1D1D | 81.36M | 76.882M |
| 5.725-5.85GHz | - | - | - | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 18.75M | 18.921M | 18M9D1D | 17.73M | 18.861M |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 37.8M | 37.781M | 37M8D1D | 32.52M | 37.661M |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 75.36M | 77.001M | 77M0D1D | 26.04M | 76.882M |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Max-OBW** = Maximum99% occupied bandwidth;
**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

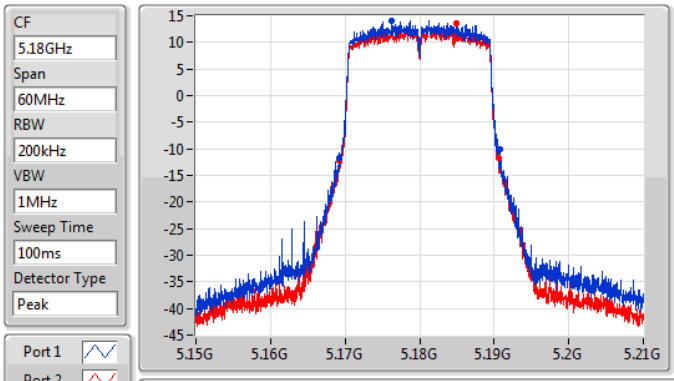
| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) |
|---|---|---|---|---|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | Inf | 21.72M | 18.891M | 21.45M | 18.891M |
| 5200MHz | Pass | Inf | 21.63M | 18.891M | 21.57M | 18.891M |
| 5240MHz | Pass | Inf | 21.84M | 18.921M | 21.27M | 18.891M |
| 5745MHz | Pass | 500k | 18.09M | 18.861M | 17.73M | 18.921M |
| 5785MHz | Pass | 500k | 18M | 18.891M | 18.33M | 18.921M |
| 5825MHz | Pass | 500k | 18.75M | 18.891M | 18M | 18.921M |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | Inf | 41.16M | 37.661M | 41.52M | 37.721M |
| 5230MHz | Pass | Inf | 41.46M | 37.661M | 40.98M | 37.721M |
| 5755MHz | Pass | 500k | 32.52M | 37.661M | 35.04M | 37.721M |
| 5795MHz | Pass | 500k | 37.8M | 37.721M | 33.84M | 37.781M |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | Inf | 81.36M | 77.121M | 81.36M | 76.882M |
| 5775MHz | Pass | 500k | 26.04M | 76.882M | 75.36M | 77.001M |

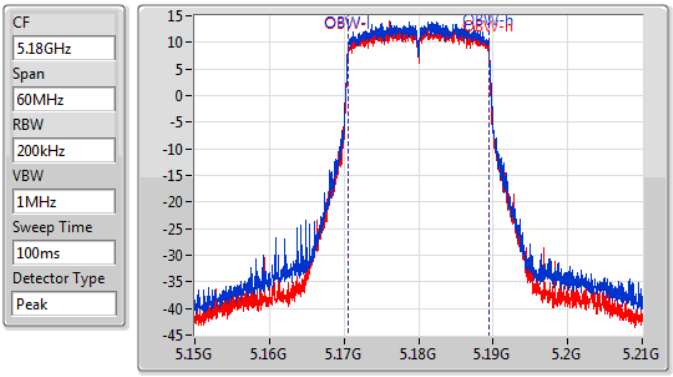
**Port X-N dB** = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
**Port X-OBW** = Port **X** 99% occupied bandwidth;

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5180MHz

19/11/2020



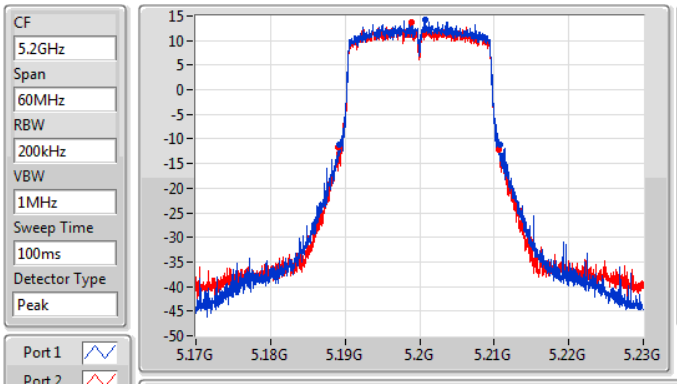



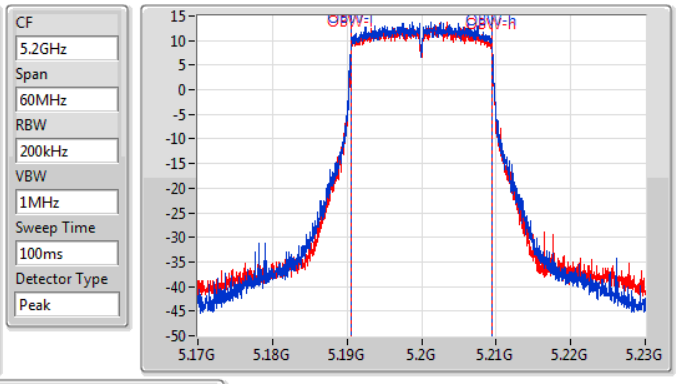

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.72M | 5.16914G | 5.19086G | 18.891M | 5.170555G | 5.189445G | Inf | 1 |
| 21.45M | 5.16914G | 5.19059G | 18.891M | 5.170555G | 5.189445G | Inf | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5200MHz

19/11/2020



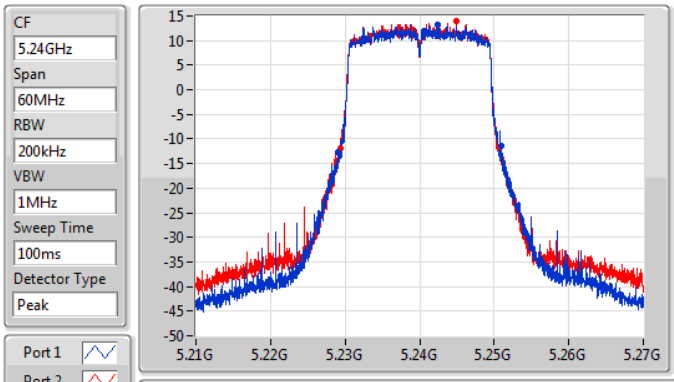



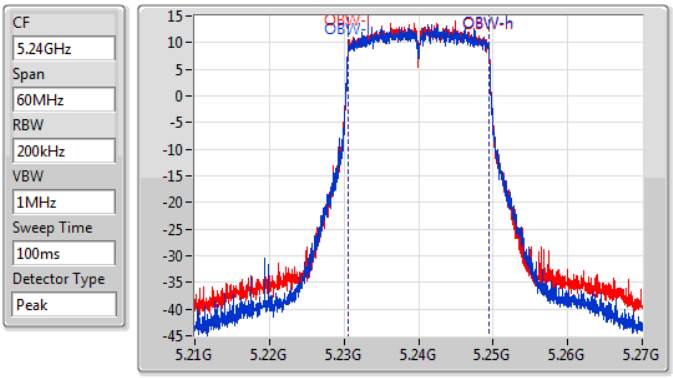

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.63M | 5.18917G | 5.2108G | 18.891M | 5.190555G | 5.209445G | Inf | 1 |
| 21.57M | 5.18908G | 5.21065G | 18.891M | 5.190555G | 5.209445G | Inf | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5240MHz

19/11/2020



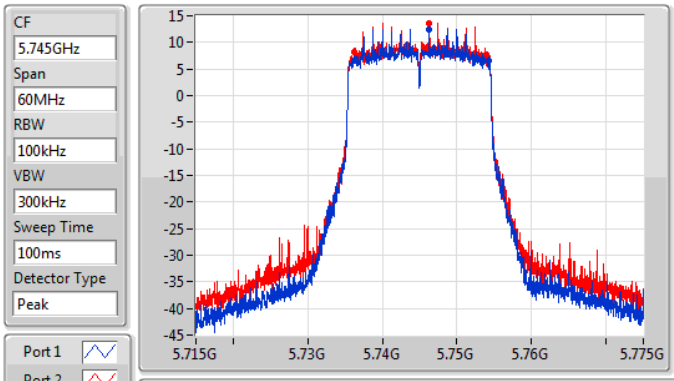



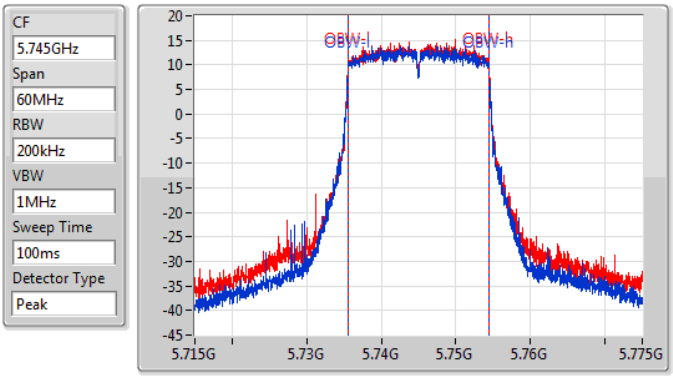

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 21.84M | 5.22908G | 5.25092G | 18.921M | 5.230525G | 5.249445G | Inf | 1 |
| 21.27M | 5.22932G | 5.25059G | 18.891M | 5.230555G | 5.249445G | Inf | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5745MHz

19/11/2020



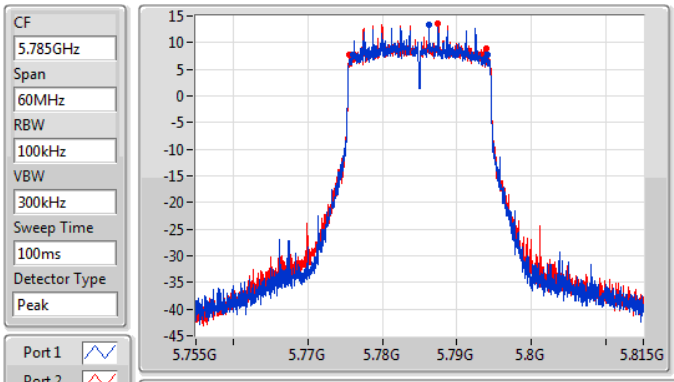



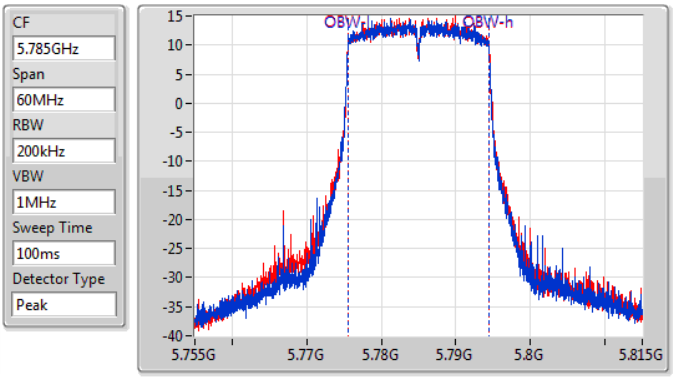

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.09M | 5.73624G | 5.75433G | 18.861M | 5.735555G | 5.754415G | 500k | 1 |
| 17.73M | 5.73618G | 5.75391G | 18.921M | 5.735525G | 5.754445G | 500k | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5785MHz

19/11/2020



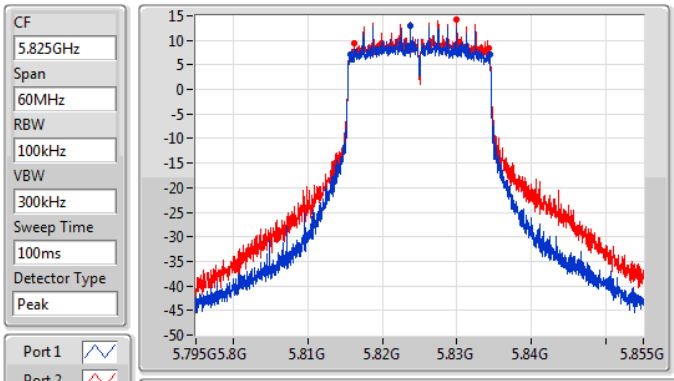



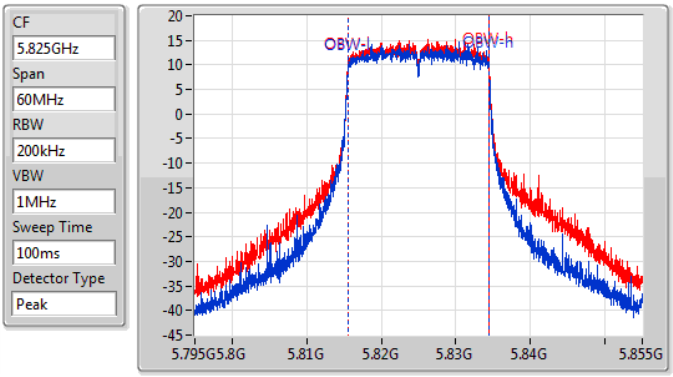

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18M | 5.77606G | 5.79406G | 18.891M | 5.775525G | 5.794415G | 500k | 1 |
| 18.33M | 5.77561G | 5.79394G | 18.921M | 5.775525G | 5.794445G | 500k | 2 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

### 5825MHz

19/11/2020



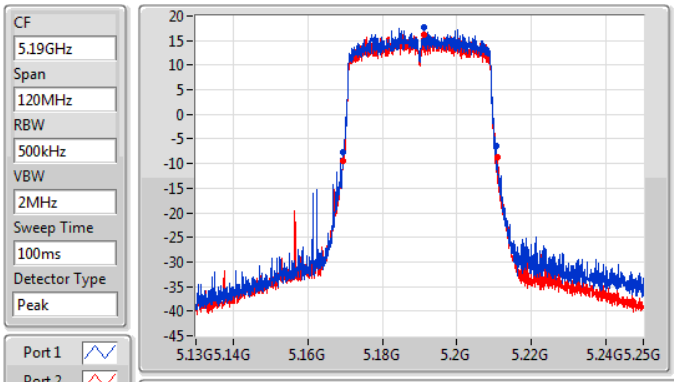



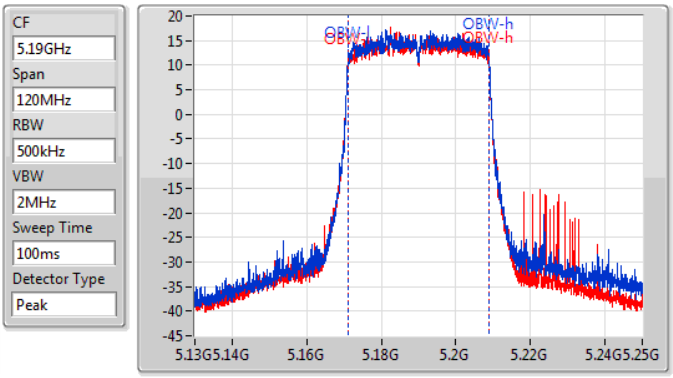

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 18.75M | 5.81567G | 5.83442G | 18.891M | 5.815525G | 5.834415G | 500k | 1 |
| 18M | 5.81624G | 5.83424G | 18.921M | 5.815525G | 5.834445G | 500k | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

### 5190MHz

19/11/2020



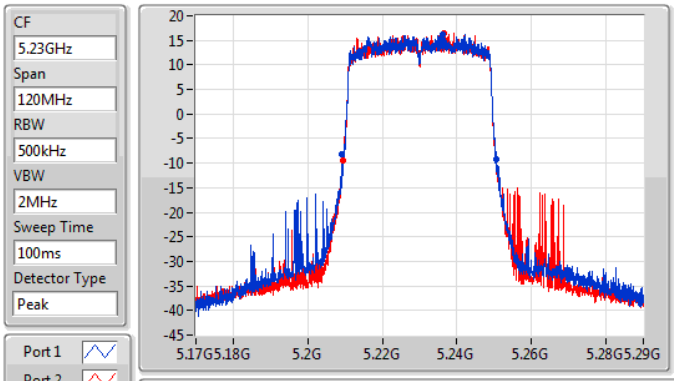



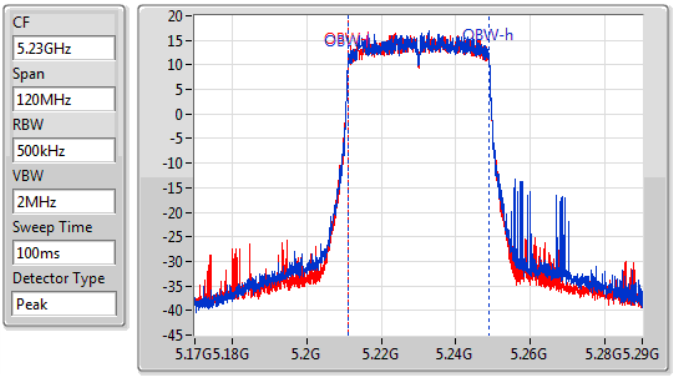

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 41.16M | 5.16936G | 5.21052G | 37.661M | 5.171169G | 5.208831G | Inf | 1 |
| 41.52M | 5.16948G | 5.211G | 37.721M | 5.171109G | 5.208831G | Inf | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

### 5230MHz

19/11/2020



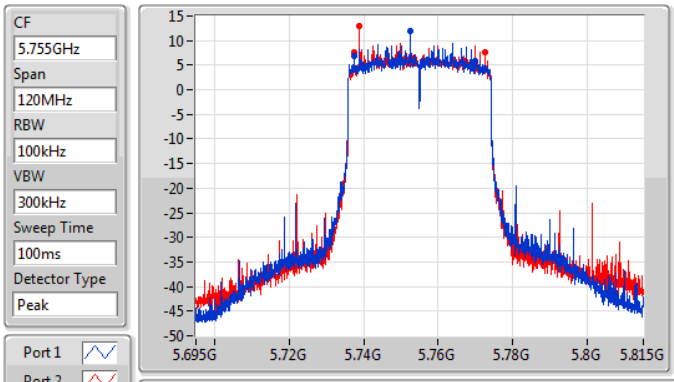



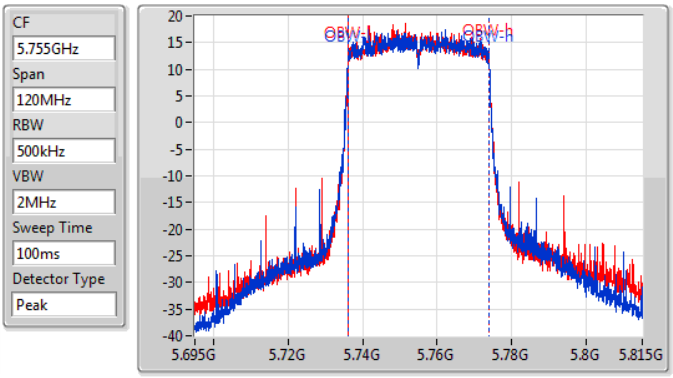

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 41.46M | 5.20924G | 5.2507G | 37.661M | 5.211169G | 5.248831G | Inf | 1 |
| 40.98M | 5.20954G | 5.25052G | 37.721M | 5.211169G | 5.248891G | Inf | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

### 5755MHz

19/11/2020



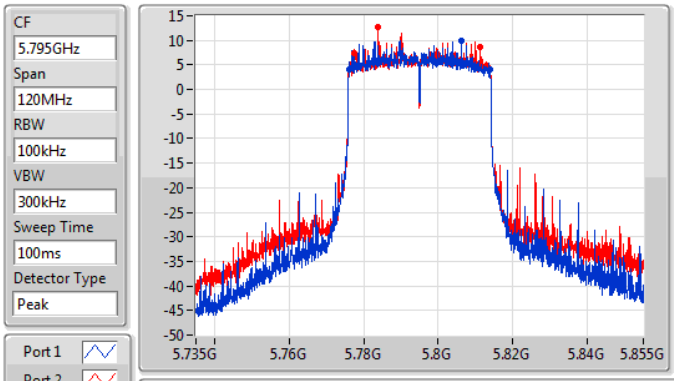



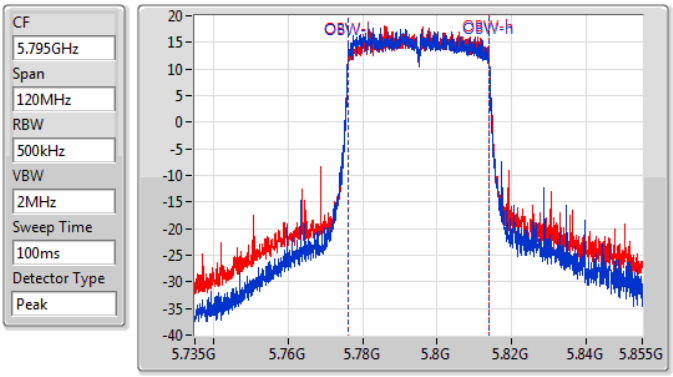

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 32.52M | 5.73742G | 5.76994G | 37.661M | 5.736169G | 5.773831G | 500k | 1 |
| 35.04M | 5.73742G | 5.77246G | 37.721M | 5.736109G | 5.773831G | 500k | 2 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

### 5795MHz

19/11/2020



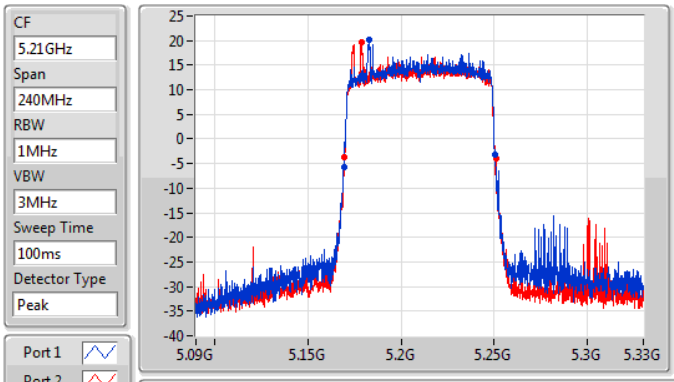



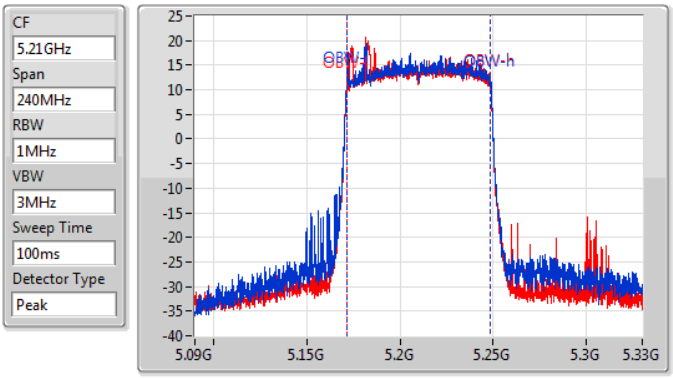

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 37.8M | 5.77616G | 5.81396G | 37.721M | 5.776109G | 5.813831G | 500k | 1 |
| 33.84M | 5.77742G | 5.81126G | 37.781M | 5.776109G | 5.813891G | 500k | 2 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX EBW

### 5210MHz

19/11/2020



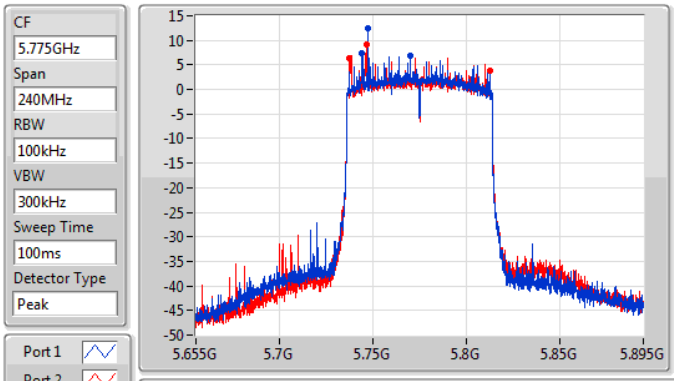



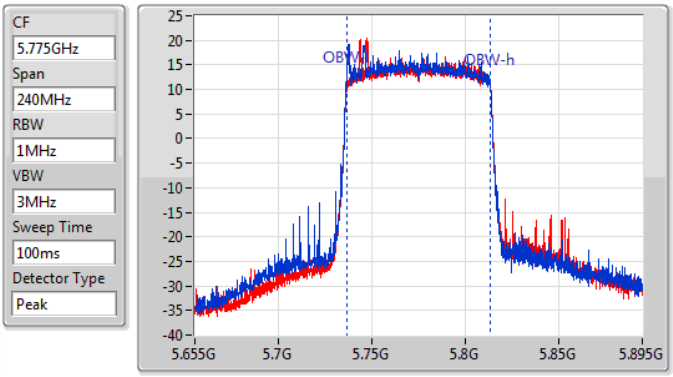

| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 81.36M | 5.16932G | 5.25068G | 77.121M | 5.171499G | 5.248621G | Inf | 1 |
| 81.36M | 5.16944G | 5.2508G | 76.882M | 5.171619G | 5.248501G | Inf | 2 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX EBW

### 5775MHz

19/11/2020




| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|---|---|---|---|---|---|---|---|
| 26.04M | 5.74392G | 5.76996G | 76.882M | 5.736499G | 5.813381G | 500k | 1 |
| 75.36M | 5.7372G | 5.81256G | 77.001M | 5.736499G | 5.813501G | 500k | 2 |

## Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 5.15-5.25GHz | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 26.68 | 0.46559 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 27.09 | 0.51168 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 21.50 | 0.14125 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 21.17 | 0.13092 |
| 5.725-5.85GHz | - | - |
| 802.11a_Nss1,(6Mbps)_2TX | 29.83 | 0.96161 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 29.58 | 0.90782 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 24.39 | 0.27479 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 26.12 | 0.40926 |

## Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 6.00 | 23.95 | 23.36 | 26.68 | 30.00 |
| 5200MHz | Pass | 6.00 | 23.79 | 23.44 | 26.63 | 30.00 |
| 5240MHz | Pass | 6.00 | 23.35 | 23.60 | 26.49 | 30.00 |
| 5745MHz | Pass | 6.00 | 26.78 | 26.81 | 29.81 | 30.00 |
| 5785MHz | Pass | 6.00 | 26.44 | 26.65 | 29.56 | 30.00 |
| 5825MHz | Pass | 6.00 | 26.66 | 26.97 | 29.83 | 30.00 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 6.00 | 23.79 | 23.37 | 26.60 | 30.00 |
| 5200MHz | Pass | 6.00 | 24.18 | 23.98 | 27.09 | 30.00 |
| 5240MHz | Pass | 6.00 | 23.70 | 24.14 | 26.94 | 30.00 |
| 5745MHz | Pass | 6.00 | 26.49 | 26.65 | 29.58 | 30.00 |
| 5785MHz | Pass | 6.00 | 26.08 | 26.32 | 29.21 | 30.00 |
| 5825MHz | Pass | 6.00 | 24.44 | 24.73 | 27.60 | 30.00 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | 6.00 | 18.33 | 17.93 | 21.14 | 30.00 |
| 5230MHz | Pass | 6.00 | 18.35 | 18.62 | 21.50 | 30.00 |
| 5755MHz | Pass | 6.00 | 18.51 | 18.47 | 21.50 | 30.00 |
| 5795MHz | Pass | 6.00 | 21.26 | 21.49 | 24.39 | 30.00 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | 6.00 | 18.51 | 17.78 | 21.17 | 30.00 |
| 5775MHz | Pass | 6.00 | 23.03 | 23.18 | 26.12 | 30.00 |

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

## Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 5.15-5.25GHz | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 26.21 | 0.41783 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 26.59 | 0.45604 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 26.00 | 0.39811 |
| 5.725-5.85GHz | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 26.91 | 0.49091 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 27.07 | 0.50933 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 25.64 | 0.36644 |

## Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 8.91 | 23.59 | 22.78 | 26.21 | 27.09 |
| 5200MHz | Pass | 8.91 | 23.32 | 22.75 | 26.05 | 27.09 |
| 5240MHz | Pass | 8.91 | 22.59 | 23.02 | 25.82 | 27.09 |
| 5745MHz | Pass | 8.91 | 23.36 | 23.87 | 26.63 | 27.09 |
| 5785MHz | Pass | 8.91 | 23.87 | 23.92 | 26.91 | 27.09 |
| 5825MHz | Pass | 8.91 | 23.43 | 24.28 | 26.89 | 27.09 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | 8.91 | 23.89 | 23.24 | 26.59 | 27.09 |
| 5230MHz | Pass | 8.91 | 23.29 | 23.15 | 26.23 | 27.09 |
| 5755MHz | Pass | 8.91 | 23.87 | 23.91 | 26.90 | 27.09 |
| 5795MHz | Pass | 8.91 | 24.08 | 24.03 | 27.07 | 27.09 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | 8.91 | 23.24 | 22.72 | 26.00 | 27.09 |
| 5775MHz | Pass | 8.91 | 23.09 | 22.12 | 25.64 | 27.09 |

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

## Summary

| Mode | PD (dBm/RBW) |
|---|---|
| 5.15-5.25GHz | - |
| 802.11a_Nss1,(6Mbps)_2TX | 13.96 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 13.68 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 5.42 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 1.84 |
| 5.725-5.85GHz | - |
| 802.11a_Nss1,(6Mbps)_2TX | 15.84 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | 14.79 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | 6.76 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | 5.49 |

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

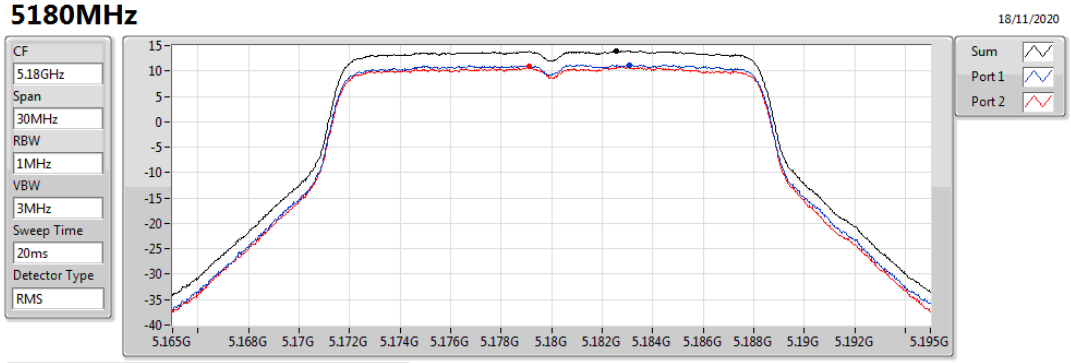
## Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|
| 802.11a_Nss1,(6Mbps)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 8.91 | 11.22 | 10.87 | 13.92 | 14.09 |
| 5200MHz | Pass | 8.91 | 11.26 | 10.92 | 13.96 | 14.09 |
| 5240MHz | Pass | 8.91 | 10.74 | 11.12 | 13.88 | 14.09 |
| 5745MHz | Pass | 8.91 | 12.75 | 12.87 | 15.70 | 27.09 |
| 5785MHz | Pass | 8.91 | 12.34 | 12.60 | 15.38 | 27.09 |
| 5825MHz | Pass | 8.91 | 12.74 | 13.08 | 15.84 | 27.09 |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 8.91 | 10.36 | 10.08 | 13.16 | 14.09 |
| 5200MHz | Pass | 8.91 | 10.85 | 10.56 | 13.63 | 14.09 |
| 5240MHz | Pass | 8.91 | 10.48 | 11.00 | 13.68 | 14.09 |
| 5745MHz | Pass | 8.91 | 11.87 | 11.92 | 14.79 | 27.09 |
| 5785MHz | Pass | 8.91 | 11.21 | 11.44 | 14.29 | 27.09 |
| 5825MHz | Pass | 8.91 | 9.83 | 10.06 | 12.91 | 27.09 |
| 802.11ax HEW40_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | 8.91 | 2.23 | 1.71 | 4.94 | 14.09 |
| 5230MHz | Pass | 8.91 | 2.53 | 2.55 | 5.42 | 14.09 |
| 5755MHz | Pass | 8.91 | 1.17 | 1.02 | 4.02 | 27.09 |
| 5795MHz | Pass | 8.91 | 3.87 | 3.75 | 6.76 | 27.09 |
| 802.11ax HEW80_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | 8.91 | -0.93 | -1.38 | 1.84 | 14.09 |
| 5775MHz | Pass | 8.91 | 2.47 | 2.65 | 5.49 | 27.09 |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

## 802.11a_Nss1,(6Mbps)_2TX PSD

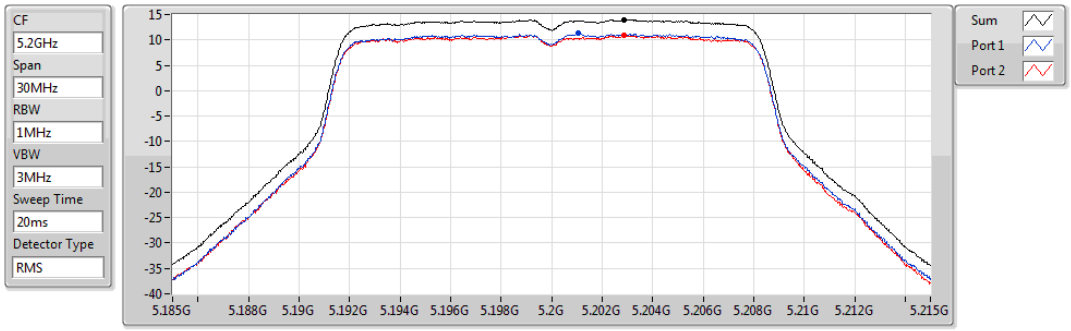
### 5180MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.92 | 13.92 | 11.22 | 10.87 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

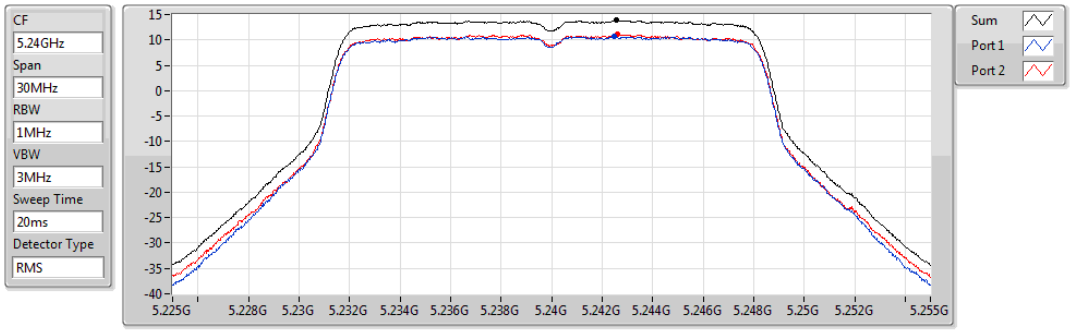
### 5200MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.96 | 13.96 | 11.26 | 10.92 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

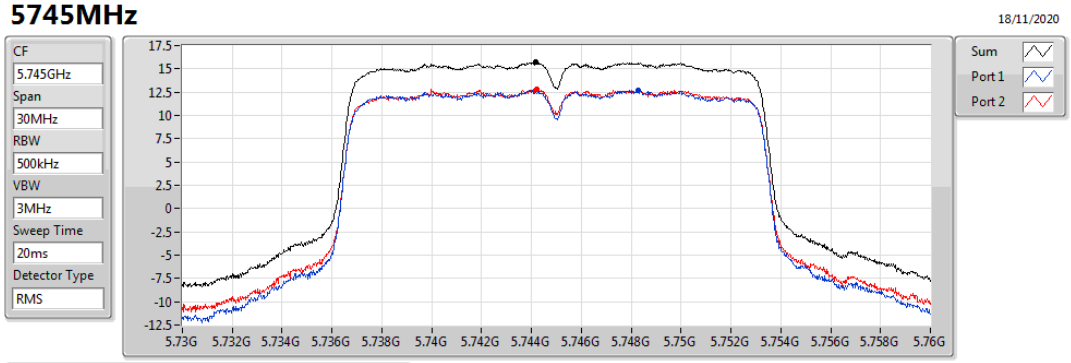
### 5240MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.88 | 13.88 | 10.74 | 11.12 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

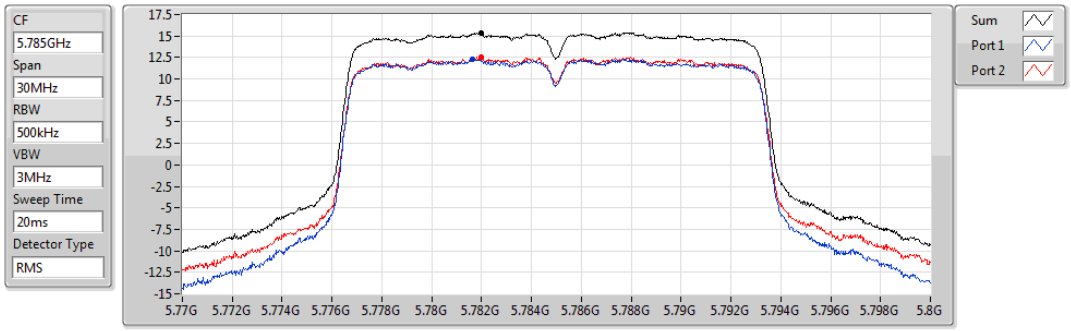
### 5745MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.70 | 15.70 | 12.75 | 12.87 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

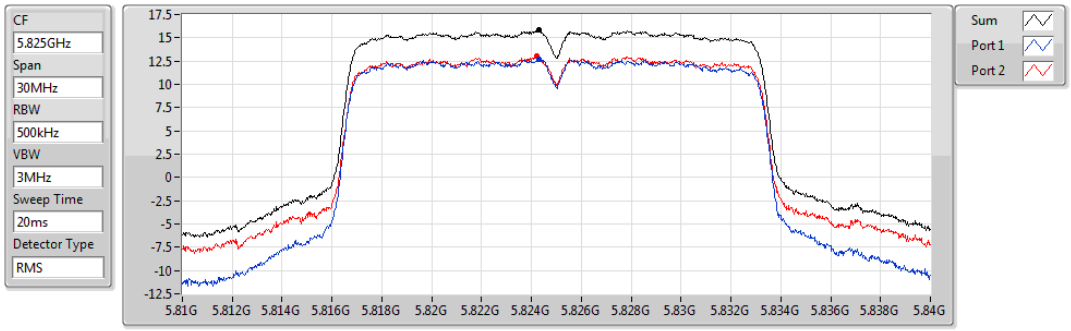
### 5785MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.38 | 15.38 | 12.34 | 12.60 |

## 802.11a_Nss1,(6Mbps)_2TX PSD

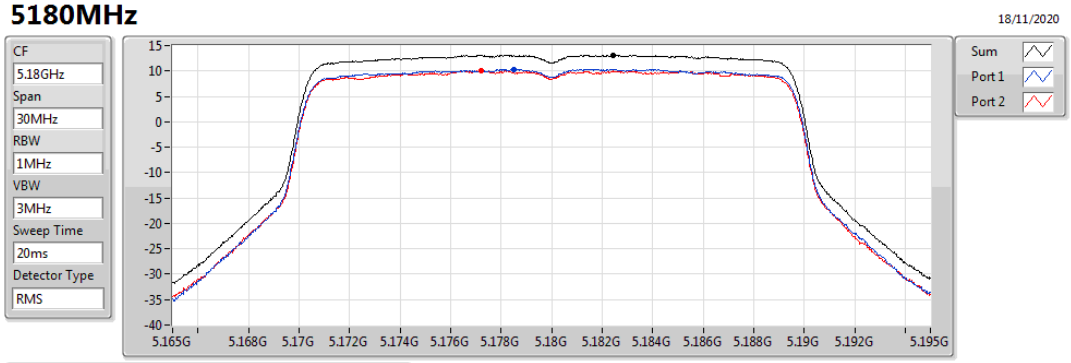
### 5825MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 15.84 | 15.84 | 12.74 | 13.08 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX PSD

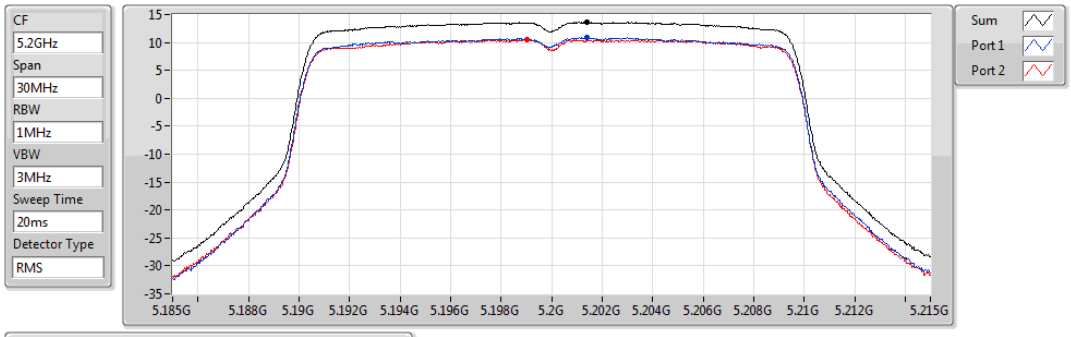
### 5180MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.16 | 13.16 | 10.36 | 10.08 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX PSD

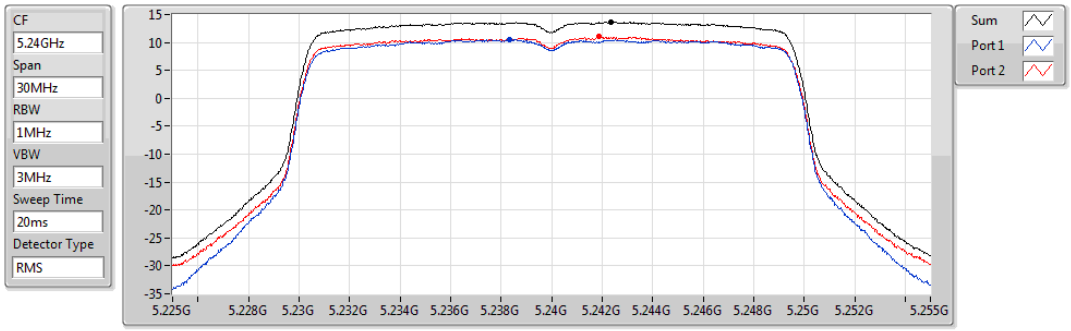
### 5200MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.63 | 13.63 | 10.85 | 10.56 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX PSD

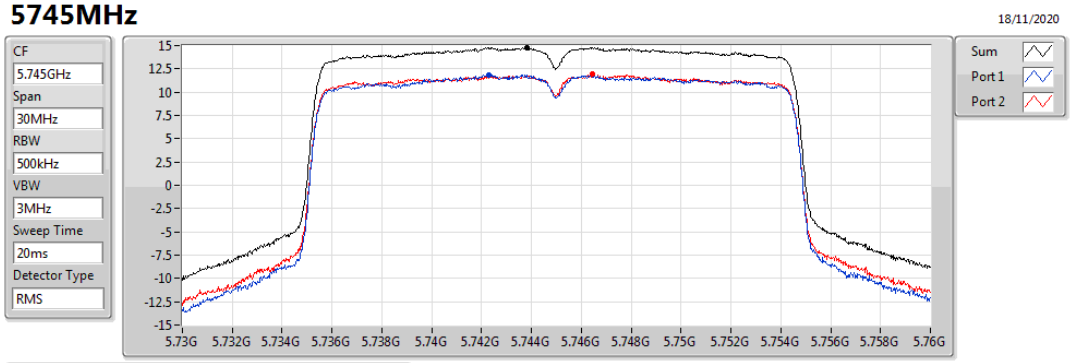
### 5240MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.68 | 13.68 | 10.48 | 11.00 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX PSD

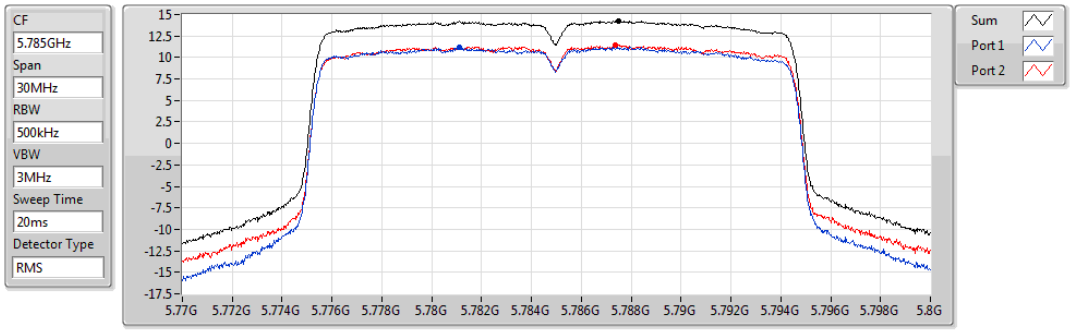
### 5745MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 14.79 | 14.79 | 11.87 | 11.92 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX PSD

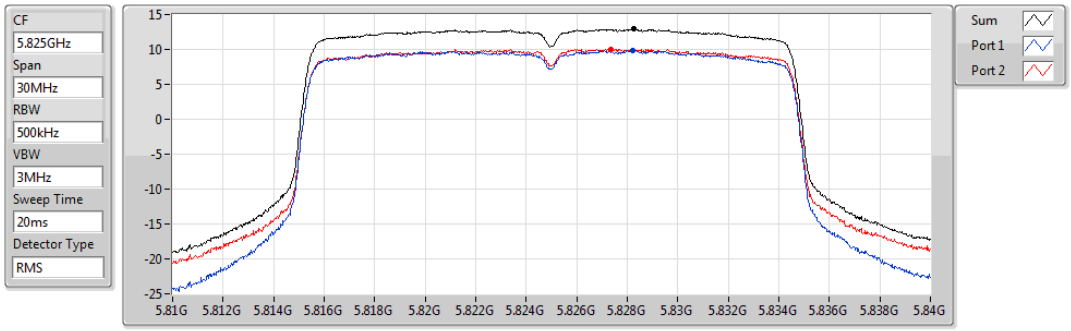
### 5785MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 14.29 | 14.29 | 11.21 | 11.44 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX PSD

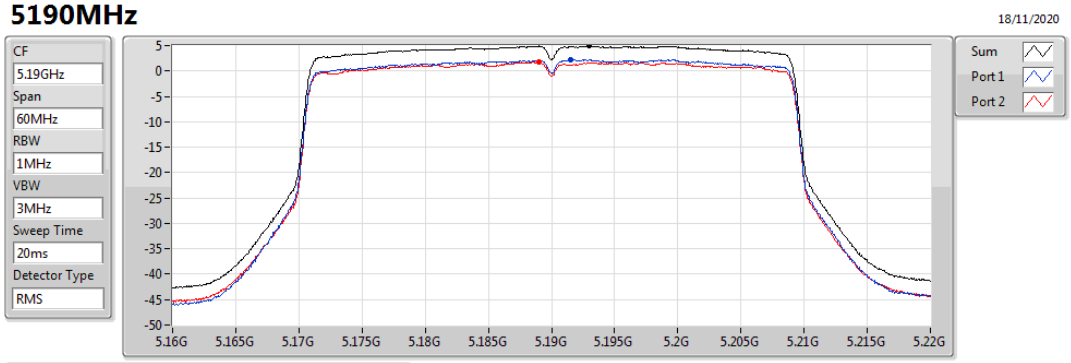
### 5825MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.91 | 12.91 | 9.83 | 10.06 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX PSD

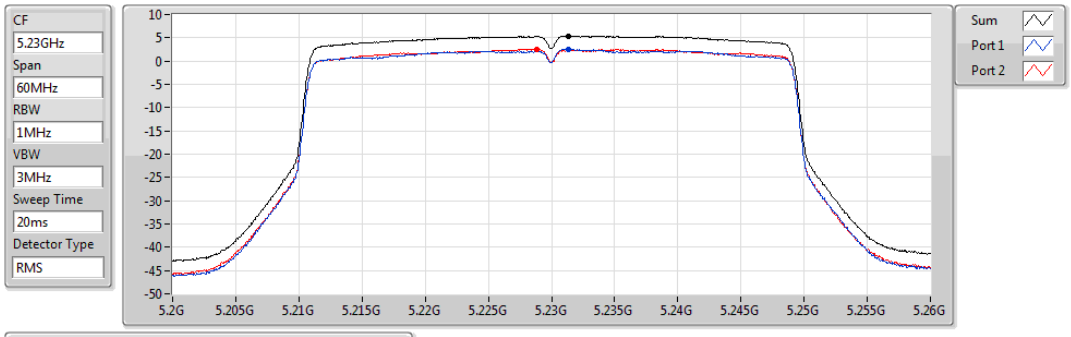
### 5190MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 4.94 | 4.94 | 2.23 | 1.71 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX PSD

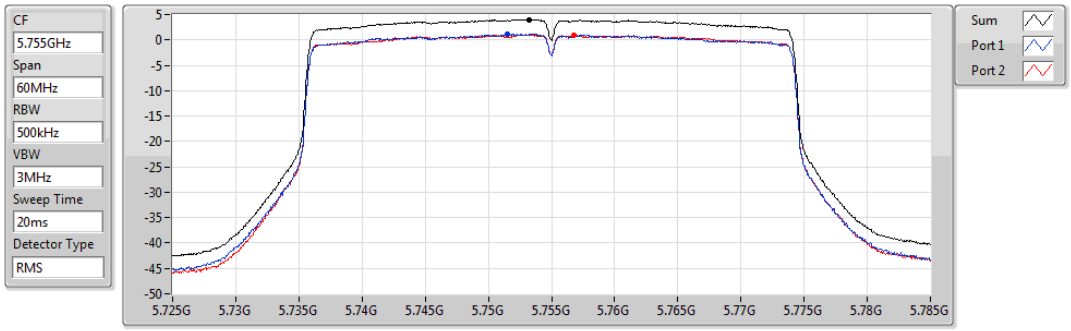
### 5230MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.42 | 5.42 | 2.53 | 2.55 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX PSD

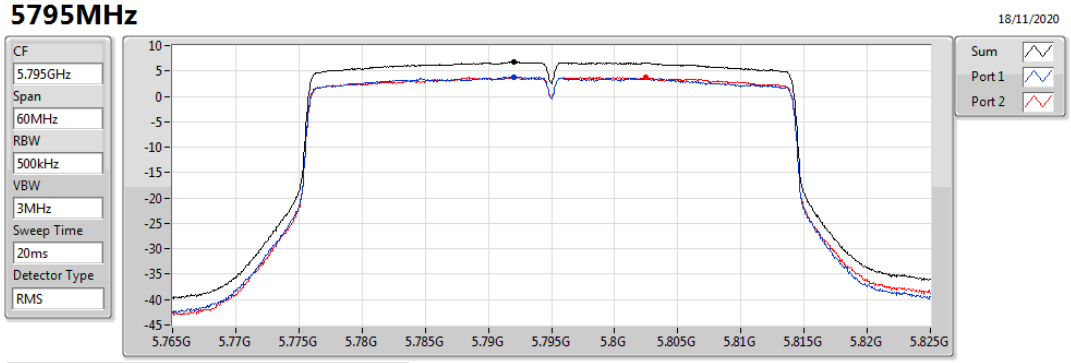
### 5755MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 4.02 | 4.02 | 1.17 | 1.02 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX PSD

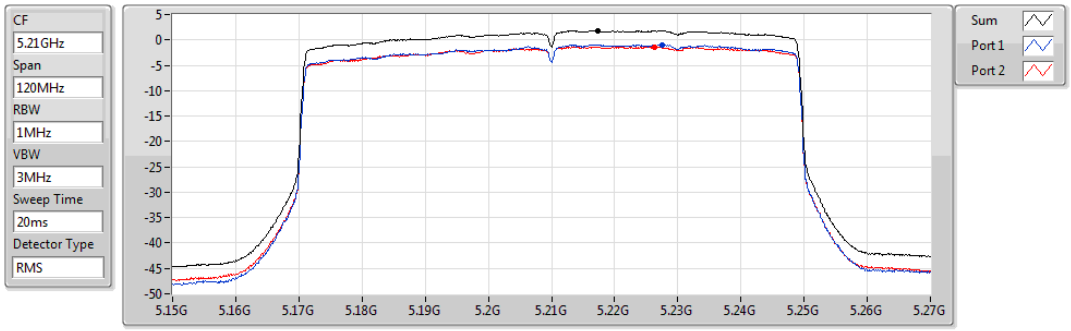
### 5795MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.76 | 6.76 | 3.87 | 3.75 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX PSD

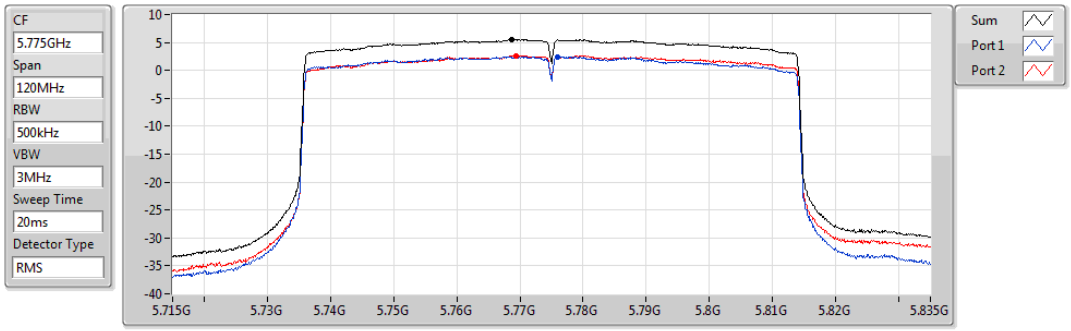
### 5210MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 1.84 | 1.84 | -0.93 | -1.38 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX PSD

### 5775MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.49 | 5.49 | 2.47 | 2.65 |

## Summary

| Mode | PD (dBm/RBW) |
|---|---|
| 5.15-5.25GHz | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 12.85 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 10.17 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 6.77 |
| 5.725-5.85GHz | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | 12.39 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | 9.50 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | 5.52 |

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

## Result

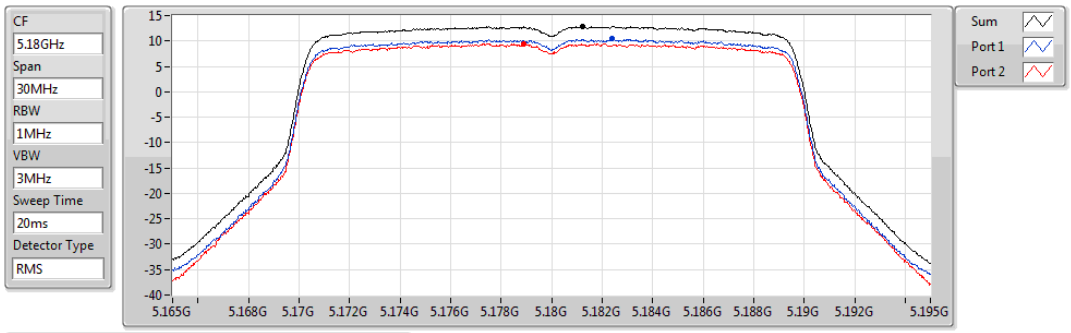
| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) |
|---|---|---|---|---|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5180MHz | Pass | 8.91 | 10.41 | 9.50 | 12.85 | 14.09 |
| 5200MHz | Pass | 8.91 | 10.14 | 9.31 | 12.67 | 14.09 |
| 5240MHz | Pass | 8.91 | 9.41 | 9.91 | 12.60 | 14.09 |
| 5745MHz | Pass | 8.91 | 8.81 | 9.32 | 11.94 | 27.09 |
| 5785MHz | Pass | 8.91 | 9.53 | 9.48 | 12.39 | 27.09 |
| 5825MHz | Pass | 8.91 | 8.92 | 9.65 | 12.09 | 27.09 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5190MHz | Pass | 8.91 | 7.56 | 7.21 | 10.17 | 14.09 |
| 5230MHz | Pass | 8.91 | 7.13 | 7.10 | 10.07 | 14.09 |
| 5755MHz | Pass | 8.91 | 6.44 | 6.79 | 9.37 | 27.09 |
| 5795MHz | Pass | 8.91 | 6.68 | 6.65 | 9.50 | 27.09 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | - | - | - | - | - | - |
| 5210MHz | Pass | 8.91 | 4.19 | 4.02 | 6.77 | 14.09 |
| 5775MHz | Pass | 8.91 | 2.78 | 3.73 | 5.52 | 27.09 |

**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

### 5180MHz

19/11/2020

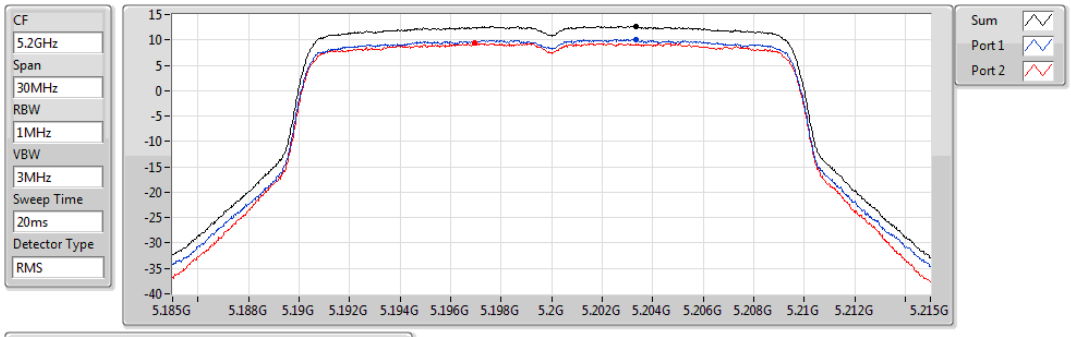



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.85 | 12.85 | 10.41 | 9.50 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

### 5200MHz

19/11/2020

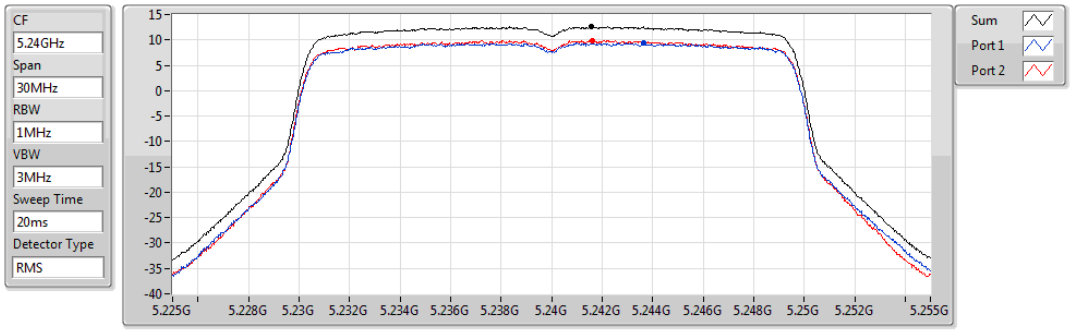



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.67 | 12.67 | 10.14 | 9.31 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

### 5240MHz

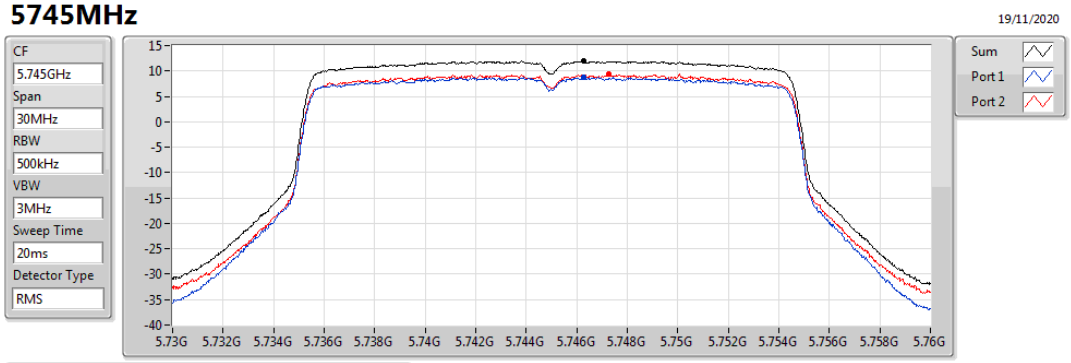
19/11/2020




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.60 | 12.60 | 9.41 | 9.91 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

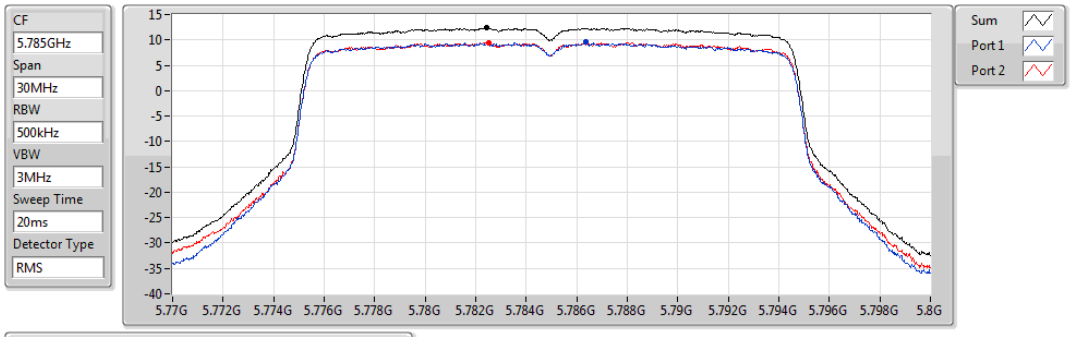
### 5745MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 11.94 | 11.94 | 8.81 | 9.32 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

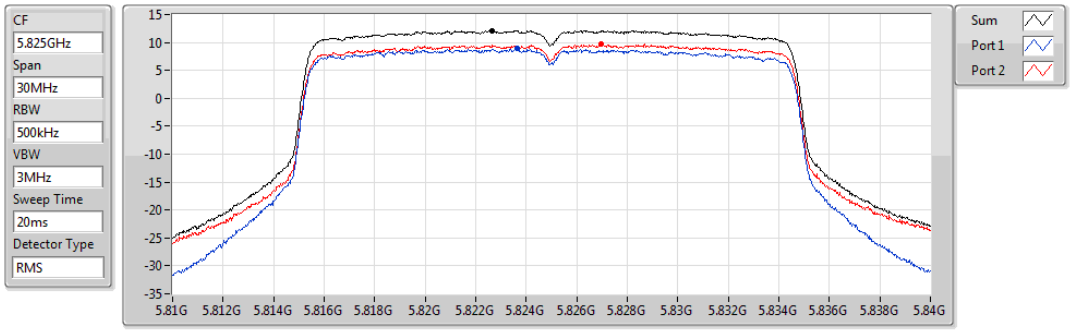
### 5785MHz




| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.39 | 12.39 | 9.53 | 9.48 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

### 5825MHz

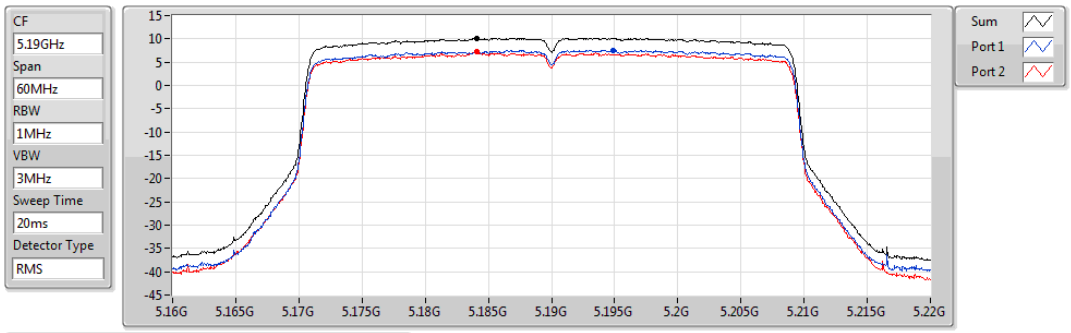



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 12.09 | 12.09 | 8.92 | 9.65 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

### 5190MHz

19/11/2020

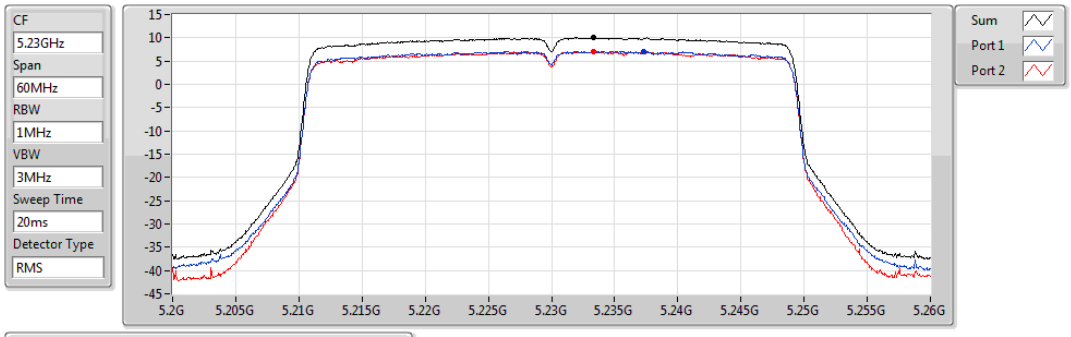



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.17 | 10.17 | 7.56 | 7.21 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

### 5230MHz

19/11/2020

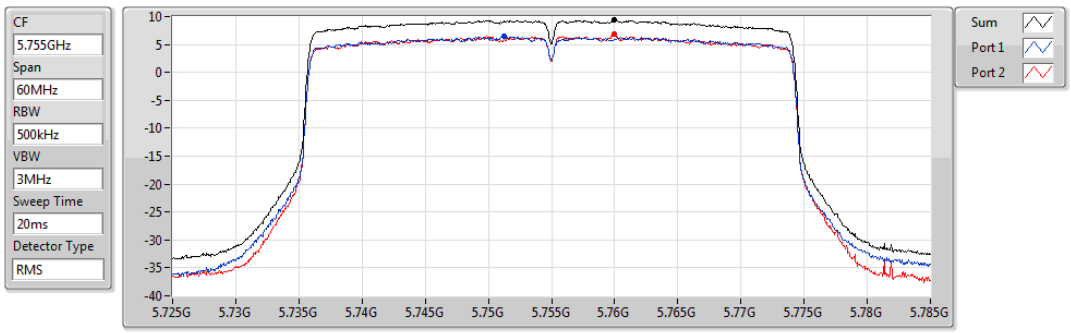



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.07 | 10.07 | 7.13 | 7.10 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

### 5755MHz

19/11/2020

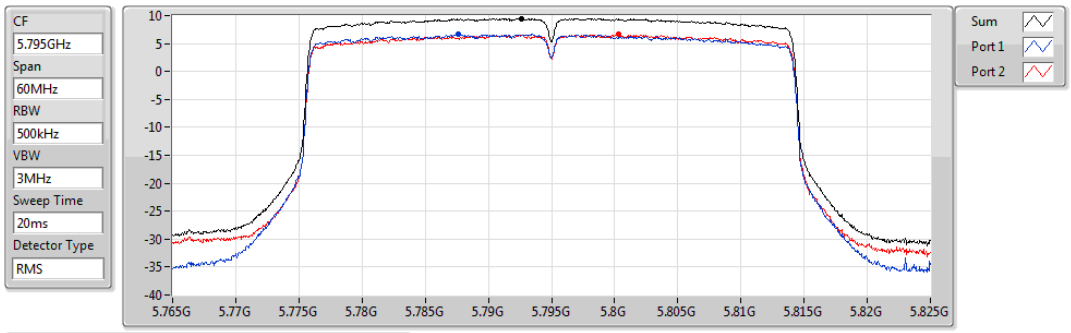



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 9.37 | 9.37 | 6.44 | 6.79 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

### 5795MHz

19/11/2020

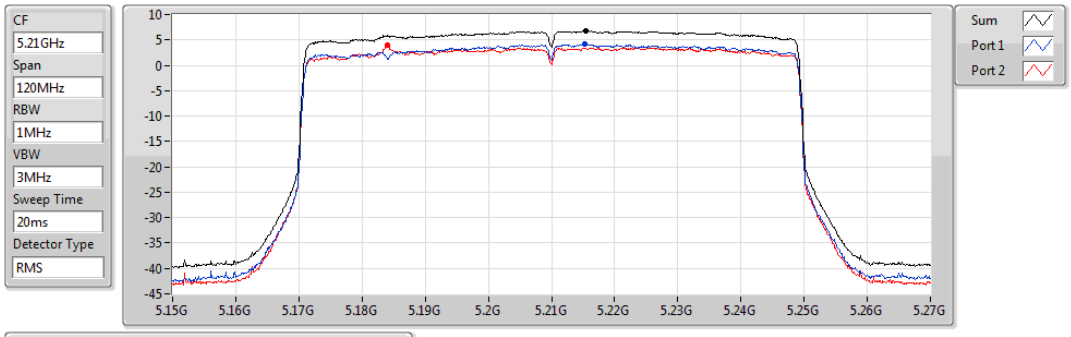



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 9.50 | 9.50 | 6.68 | 6.65 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

### 5210MHz

19/11/2020

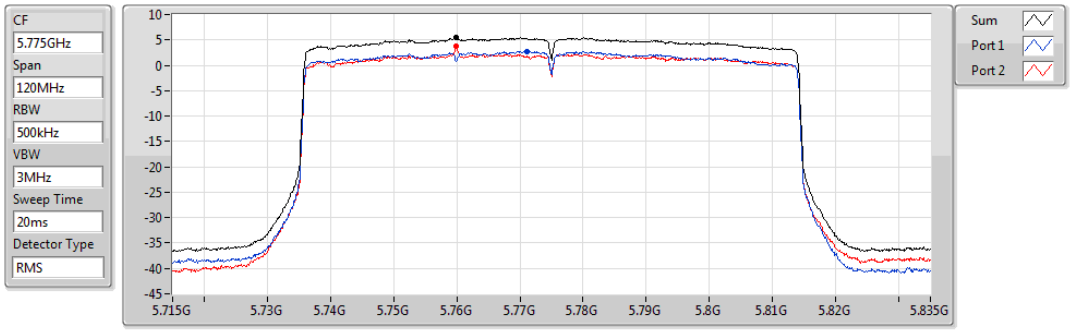



| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 6.77 | 6.77 | 4.19 | 4.02 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX PSD

### 5775MHz

19/11/2020



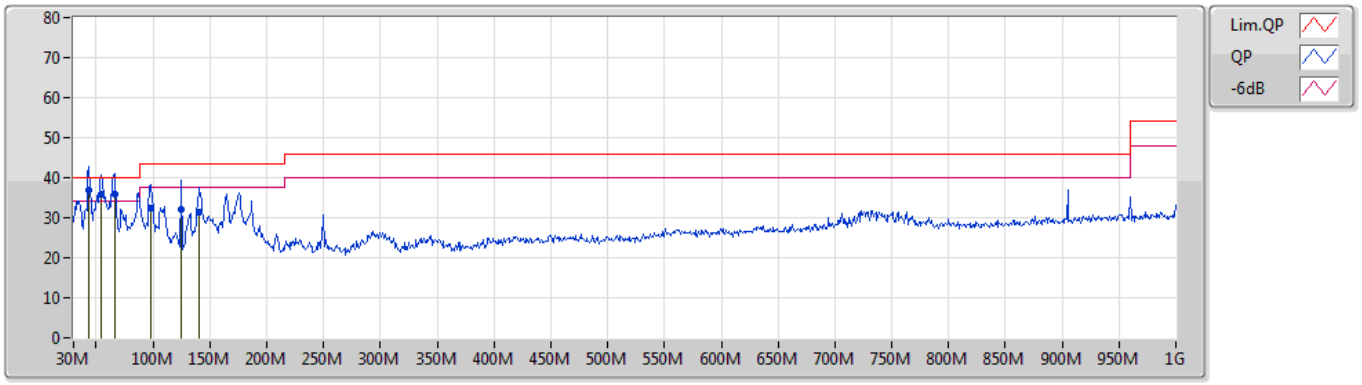

| Sum | PD | Port 1 | Port 2 |
|---|---|---|---|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 5.52 | 5.52 | 2.78 | 3.73 |

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | QP | 43.58M | 36.94 | 40.00 | -3.06 | Vertical |

## Mode 1

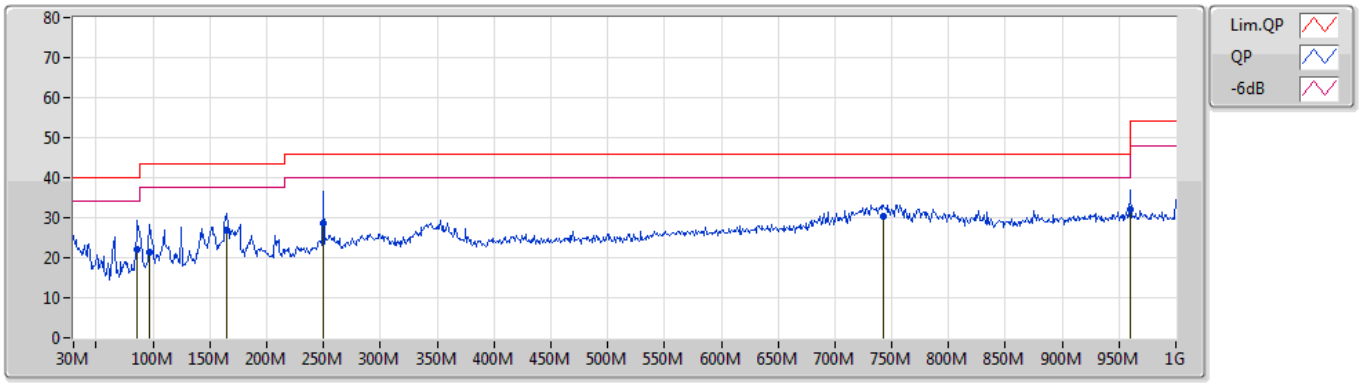
17/03/2021




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 43.58M | 36.94 | 40.00 | -3.06 | -13.67 | 3 | Vertical | 165 | 1.00 | "Worst" | 50.61 | 17.19 | 0.60 | 31.46 |
| QP | 54.25M | 35.77 | 40.00 | -4.23 | -17.77 | 3 | Vertical | 260 | 1.00 | - | 53.54 | 13.28 | 0.68 | 31.73 |
| QP | 65.89M | 36.02 | 40.00 | -3.98 | -18.49 | 3 | Vertical | 200 | 1.00 | - | 54.51 | 12.52 | 0.80 | 31.81 |
| QP | 97.9M | 32.33 | 43.50 | -11.17 | -14.40 | 3 | Vertical | 165 | 1.50 | - | 46.73 | 16.39 | 1.10 | 31.89 |
| QP | 125.06M | 32.17 | 43.50 | -11.33 | -12.41 | 3 | Vertical | 183 | 1.00 | - | 44.58 | 18.06 | 1.30 | 31.77 |
| QP | 140.58M | 31.44 | 43.50 | -12.06 | -13.64 | 3 | Vertical | 209 | 1.00 | - | 45.08 | 17.07 | 1.30 | 32.01 |

## Mode 1

17/03/2021




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV/m) | (dB/m) | (dB) | (dB) |
| QP | 86.26M | 22.21 | 40.00 | -17.79 | -16.89 | 3 | Horizontal | 150 | 2.00 | - | 39.10 | 13.91 | 1.00 | 31.80 |
| QP | 96.93M | 21.27 | 43.50 | -22.23 | -14.59 | 3 | Horizontal | 176 | 2.00 | - | 35.86 | 16.20 | 1.10 | 31.89 |
| QP | 164.83M | 26.93 | 43.50 | -16.57 | -14.61 | 3 | Horizontal | 62 | 1.50 | - | 41.54 | 15.72 | 1.42 | 31.75 |
| QP | 250.19M | 28.69 | 46.00 | -17.31 | -12.28 | 3 | Horizontal | 246 | 1.50 | - | 40.97 | 17.77 | 1.90 | 31.95 |
| QP | 742.95M | 30.20 | 46.00 | -15.80 | -3.73 | 3 | Horizontal | 57 | 1.50 | "Worst" | 33.93 | 24.99 | 3.59 | 32.31 |
| QP | 960M | 32.00 | 54.00 | -22.00 | -1.43 | 3 | Horizontal | 260 | 1.00 | - | 33.43 | 26.36 | 4.32 | 32.11 |

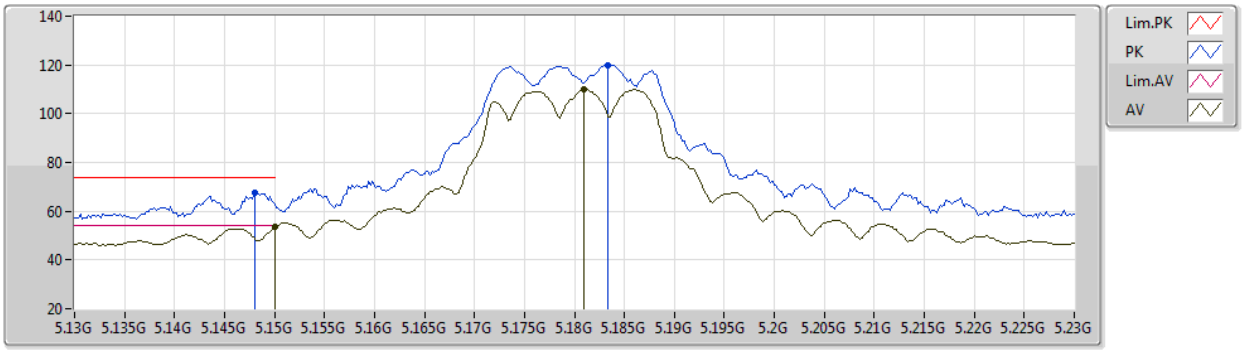
## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.725-5.85GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW20_Nss1,(MCS0)_2TX | Pass | PK | 17.22918G | 68.18 | 68.20 | -0.02 | 3 | Vertical | 37 | 1.99 | - |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

14/11/2020



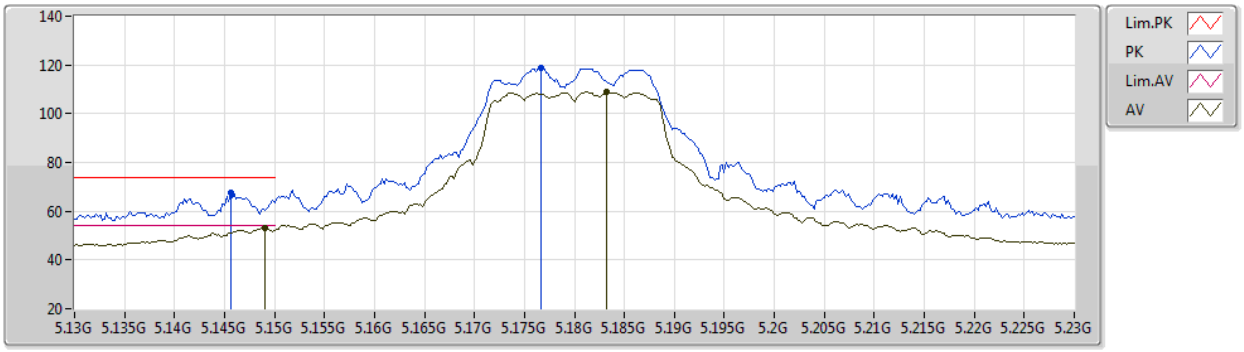

EUT Y_2TX
Setting 24
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.148G | 67.46 | 74.00 | -6.54 | 65.11 | 3 | Vertical | 0 | 1.90 | - | 31.81 | 5.17 | 34.63 |
| AV | 5.15G | 53.52 | 54.00 | -0.48 | 51.18 | 3 | Vertical | 0 | 1.90 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.1834G | 120.02 | Inf | -Inf | 117.81 | 3 | Vertical | 0 | 1.90 | - | 31.67 | 5.19 | 34.65 |
| AV | 5.181G | 109.93 | Inf | -Inf | 107.71 | 3 | Vertical | 0 | 1.90 | - | 31.68 | 5.19 | 34.65 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

14/11/2020



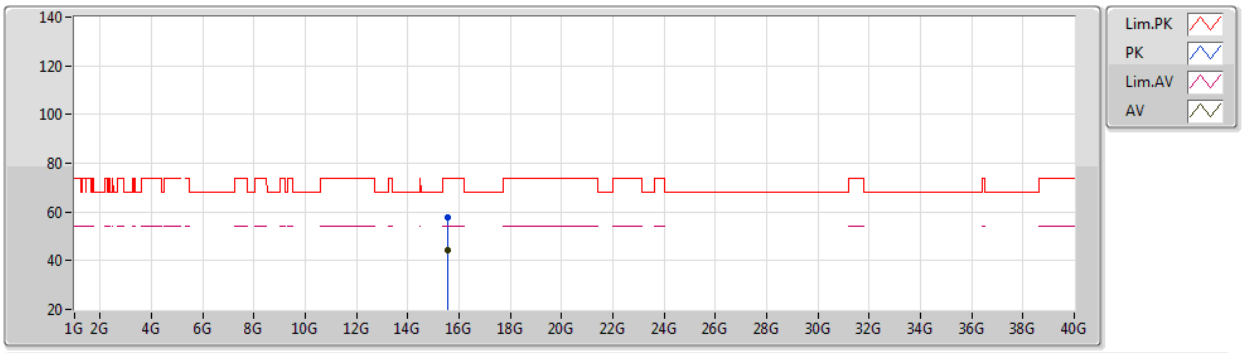

EUT Y_2TX
Setting 24
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1456G | 67.46 | 74.00 | -6.54 | 65.10 | 3 | Horizontal | 344 | 1.72 | - | 31.82 | 5.17 | 34.63 |
| AV | 5.149G | 53.26 | 54.00 | -0.74 | 50.92 | 3 | Horizontal | 344 | 1.72 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.1766G | 118.86 | Inf | -Inf | 116.62 | 3 | Horizontal | 344 | 1.72 | - | 31.69 | 5.19 | 34.64 |
| AV | 5.1832G | 108.83 | Inf | -Inf | 106.62 | 3 | Horizontal | 344 | 1.72 | - | 31.67 | 5.19 | 34.65 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

14/11/2020



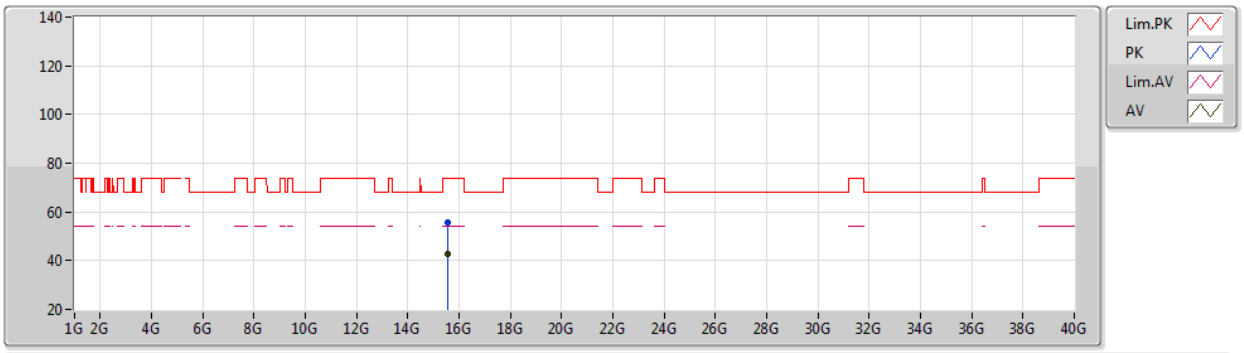

EUT Y_2TX
Setting 24
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.53986G | 57.56 | 74.00 | -16.44 | 45.27 | 3 | Vertical | 360 | 1.79 | - | 37.90 | 9.21 | 34.82 |
| AV | 15.5429G | 44.39 | 54.00 | -9.61 | 32.11 | 3 | Vertical | 360 | 1.79 | - | 37.89 | 9.21 | 34.82 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5180MHz_TX

14/11/2020



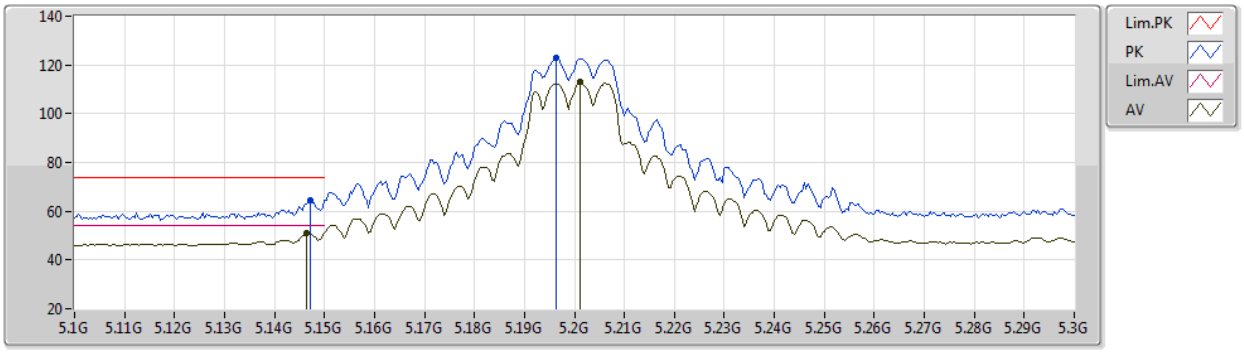

EUT Y_2TX
Setting 24
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.54268G | 55.80 | 74.00 | -18.20 | 43.52 | 3 | Horizontal | 332 | 1.80 | - | 37.89 | 9.21 | 34.82 |
| AV | 15.53996G | 42.83 | 54.00 | -11.17 | 30.54 | 3 | Horizontal | 332 | 1.80 | - | 37.90 | 9.21 | 34.82 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

14/11/2020



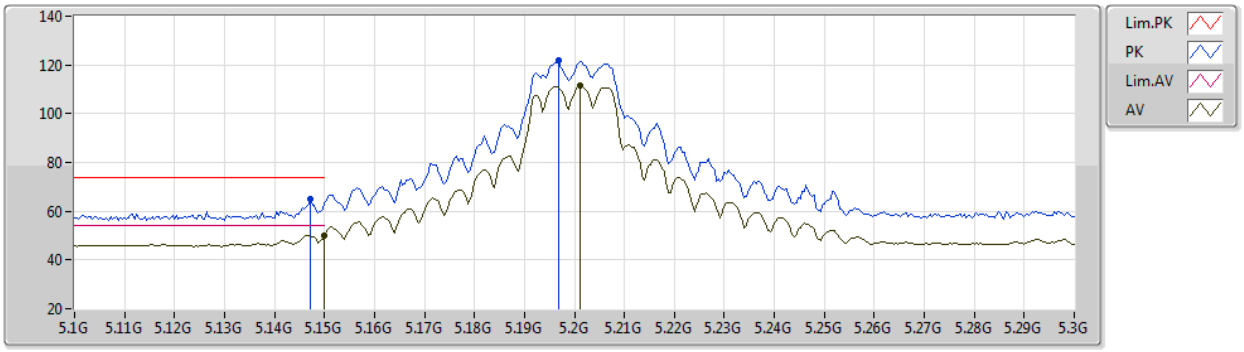

EUT Y_2TX
Setting 26.5
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1472G | 64.61 | 74.00 | -9.39 | 62.26 | 3 | Vertical | 359 | 1.80 | - | 31.81 | 5.17 | 34.63 |
| AV | 5.1464G | 50.85 | 54.00 | -3.15 | 48.50 | 3 | Vertical | 359 | 1.80 | - | 31.81 | 5.17 | 34.63 |
| PK | 5.1964G | 122.93 | Inf | -Inf | 120.77 | 3 | Vertical | 359 | 1.80 | - | 31.61 | 5.20 | 34.65 |
| AV | 5.2012G | 112.86 | Inf | -Inf | 110.71 | 3 | Vertical | 359 | 1.80 | - | 31.60 | 5.20 | 34.65 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

14/11/2020



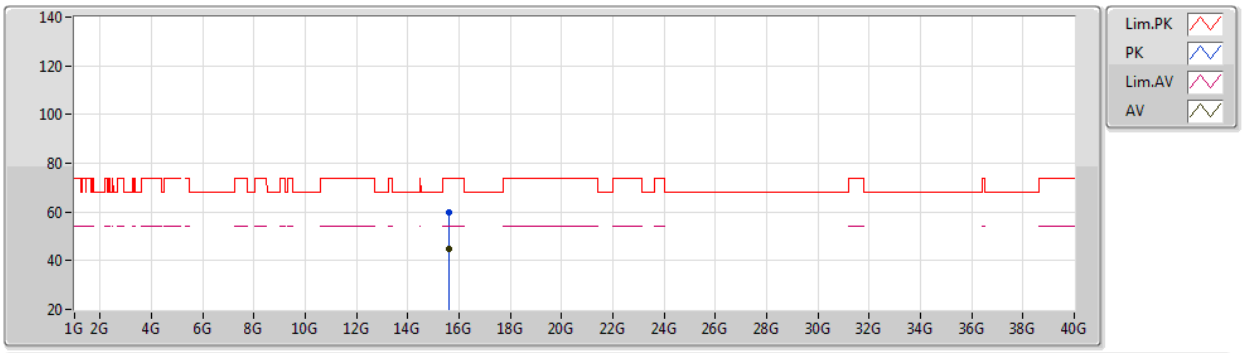

EUT Y_2TX
Setting 26.5
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1472G | 65.24 | 74.00 | -8.76 | 62.89 | 3 | Horizontal | 344 | 1.72 | - | 31.81 | 5.17 | 34.63 |
| AV | 5.15G | 50.15 | 54.00 | -3.85 | 47.81 | 3 | Horizontal | 344 | 1.72 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.1968G | 121.83 | Inf | -Inf | 119.67 | 3 | Horizontal | 344 | 1.72 | - | 31.61 | 5.20 | 34.65 |
| AV | 5.2012G | 111.61 | Inf | -Inf | 109.46 | 3 | Horizontal | 344 | 1.72 | - | 31.60 | 5.20 | 34.65 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

14/11/2020



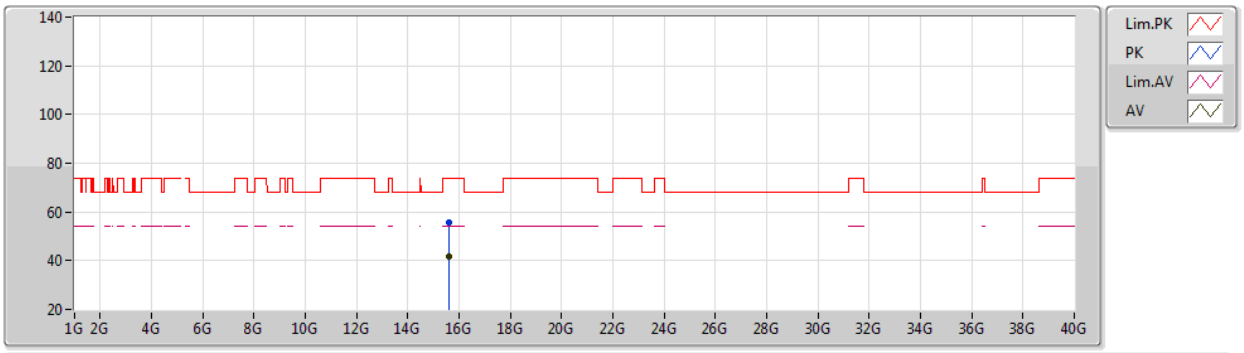

EUT Y_2TX
Setting 26.5
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.60042G | 59.74 | 74.00 | -14.26 | 47.80 | 3 | Vertical | 1 | 1.64 | - | 37.60 | 9.22 | 34.88 |
| AV | 15.59502G | 45.02 | 54.00 | -8.98 | 33.06 | 3 | Vertical | 1 | 1.64 | - | 37.62 | 9.22 | 34.88 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5200MHz_TX

14/11/2020



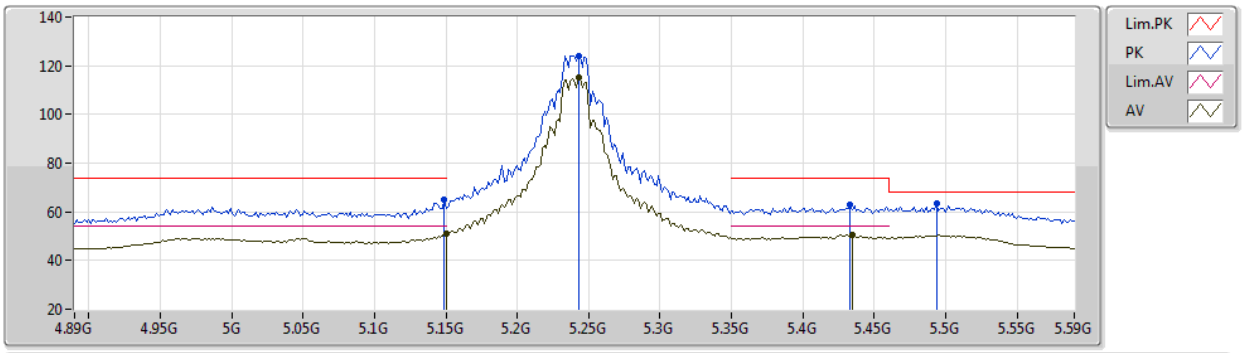

EUT Y_2TX
Setting 26.5
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.5874G | 55.63 | 74.00 | -18.37 | 43.62 | 3 | Horizontal | 52 | 1.80 | - | 37.66 | 9.22 | 34.87 |
| AV | 15.59286G | 41.87 | 54.00 | -12.13 | 29.88 | 3 | Horizontal | 52 | 1.80 | - | 37.64 | 9.22 | 34.87 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

14/11/2020



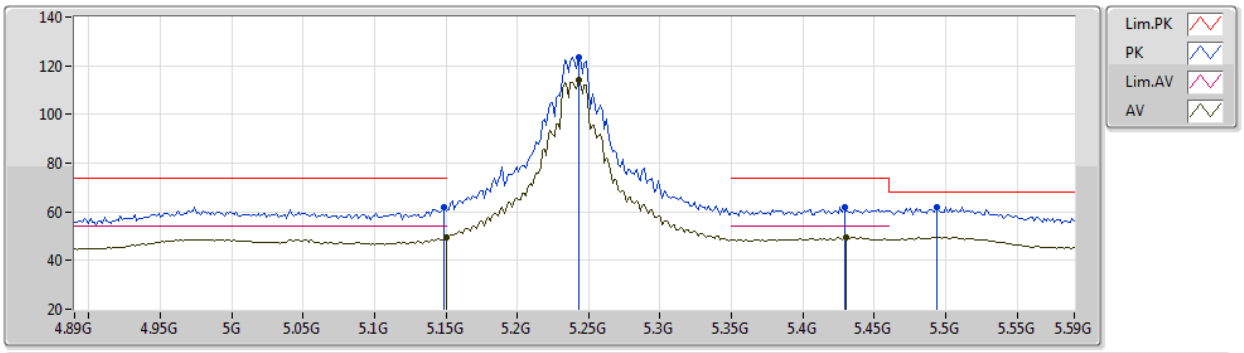

EUT Y_2TX
Setting 29
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.149G | 64.75 | 74.00 | -9.25 | 62.41 | 3 | Vertical | 0 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| AV | 5.15G | 50.93 | 54.00 | -3.07 | 48.59 | 3 | Vertical | 0 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.2428G | 124.05 | Inf | -Inf | 122.05 | 3 | Vertical | 0 | 1.80 | - | 31.43 | 5.24 | 34.67 |
| AV | 5.2428G | 115.43 | Inf | -Inf | 113.43 | 3 | Vertical | 0 | 1.80 | - | 31.43 | 5.24 | 34.67 |
| PK | 5.4332G | 63.01 | 74.00 | -10.99 | 60.65 | 3 | Vertical | 0 | 1.80 | - | 31.70 | 5.40 | 34.74 |
| AV | 5.4346G | 50.39 | 54.00 | -3.61 | 48.03 | 3 | Vertical | 0 | 1.80 | - | 31.70 | 5.40 | 34.74 |
| PK | 5.4934G | 63.32 | 68.20 | -4.88 | 60.98 | 3 | Vertical | 0 | 1.80 | - | 31.70 | 5.40 | 34.76 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

14/11/2020



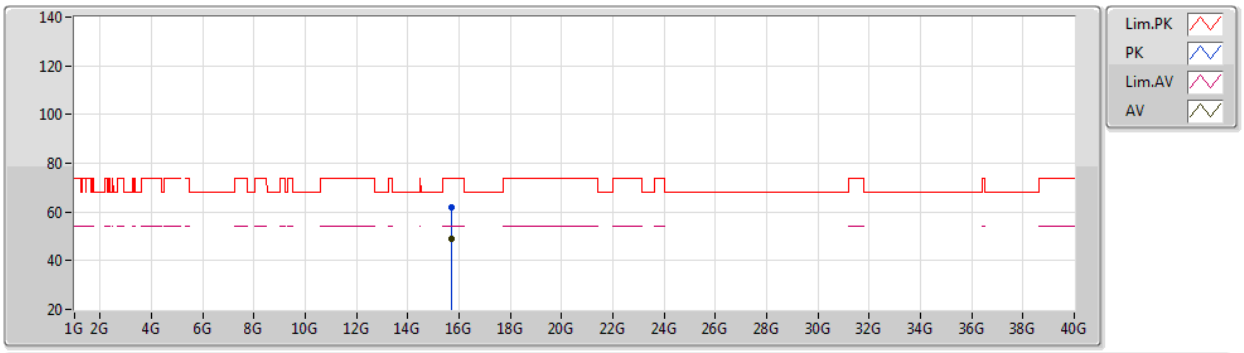

EUT Y_2TX
Setting 29
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.149G | 61.69 | 74.00 | -12.31 | 59.35 | 3 | Horizontal | 346 | 1.82 | - | 31.80 | 5.17 | 34.63 |
| AV | 5.15G | 49.53 | 54.00 | -4.47 | 47.19 | 3 | Horizontal | 346 | 1.82 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.2428G | 123.64 | Inf | -Inf | 121.64 | 3 | Horizontal | 346 | 1.82 | - | 31.43 | 5.24 | 34.67 |
| AV | 5.2428G | 114.17 | Inf | -Inf | 112.17 | 3 | Horizontal | 346 | 1.82 | - | 31.43 | 5.24 | 34.67 |
| PK | 5.429G | 62.01 | 74.00 | -11.99 | 59.64 | 3 | Horizontal | 346 | 1.82 | - | 31.70 | 5.40 | 34.73 |
| AV | 5.4304G | 49.59 | 54.00 | -4.41 | 47.22 | 3 | Horizontal | 346 | 1.82 | - | 31.70 | 5.40 | 34.73 |
| PK | 5.4934G | 62.05 | 68.20 | -6.15 | 59.71 | 3 | Horizontal | 346 | 1.82 | - | 31.70 | 5.40 | 34.76 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

14/11/2020



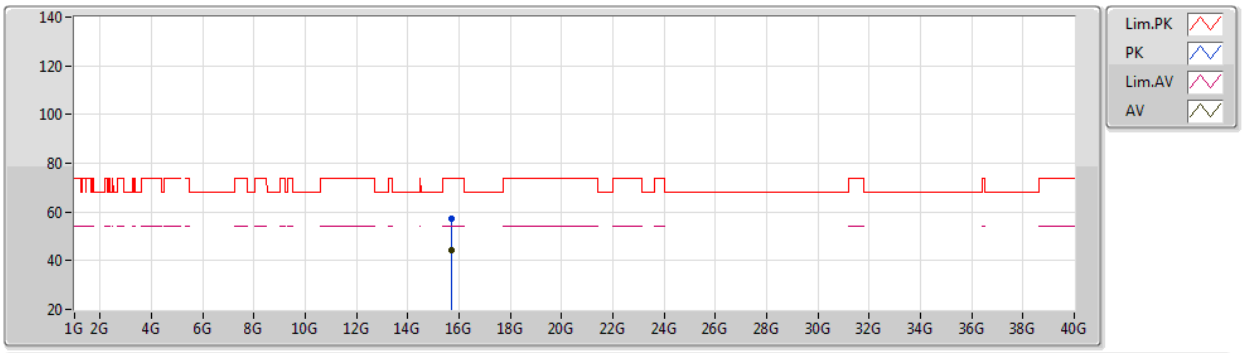

EUT Y_2TX
Setting 29
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.7077G | 62.02 | 74.00 | -11.98 | 50.19 | 3 | Vertical | 19 | 1.72 | - | 37.58 | 9.24 | 34.99 |
| AV | 15.71724G | 48.89 | 54.00 | -5.11 | 37.10 | 3 | Vertical | 19 | 1.72 | - | 37.55 | 9.24 | 35.00 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5240MHz_TX

14/11/2020



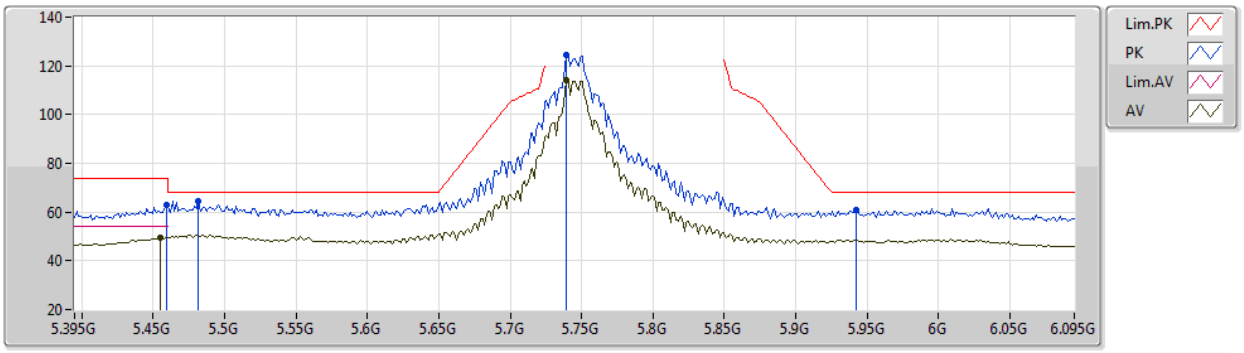

EUT Y_2TX
Setting 29
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.72024G | 57.23 | 74.00 | -16.77 | 45.45 | 3 | Horizontal | 51 | 1.80 | - | 37.54 | 9.24 | 35.00 |
| AV | 15.71928G | 44.36 | 54.00 | -9.64 | 32.58 | 3 | Horizontal | 51 | 1.80 | - | 37.54 | 9.24 | 35.00 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

14/11/2020



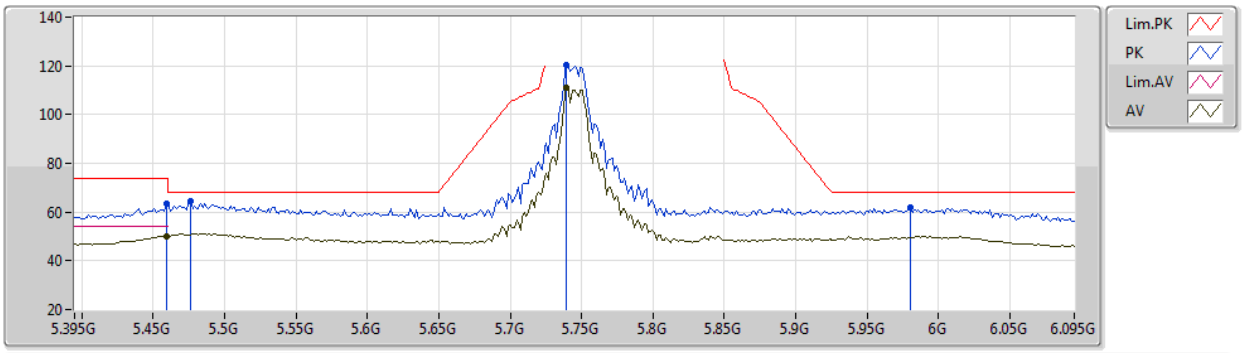

EUT Y_2TX
Setting 29
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.4594G | 63.07 | 74.00 | -10.93 | 60.72 | 3 | Vertical | 12 | 1.80 | - | 31.70 | 5.40 | 34.75 |
| AV | 5.4552G | 49.56 | 54.00 | -4.44 | 47.20 | 3 | Vertical | 12 | 1.80 | - | 31.70 | 5.40 | 34.74 |
| PK | 5.4818G | 64.66 | 68.20 | -3.54 | 62.31 | 3 | Vertical | 12 | 1.80 | - | 31.70 | 5.40 | 34.75 |
| PK | 5.7394G | 124.24 | Inf | -Inf | 121.56 | 3 | Vertical | 12 | 1.80 | - | 31.88 | 5.47 | 34.67 |
| AV | 5.7394G | 113.93 | Inf | -Inf | 111.25 | 3 | Vertical | 12 | 1.80 | - | 31.88 | 5.47 | 34.67 |
| PK | 5.9424G | 60.63 | 68.20 | -7.57 | 57.45 | 3 | Vertical | 12 | 1.80 | - | 32.27 | 5.50 | 34.59 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

14/11/2020



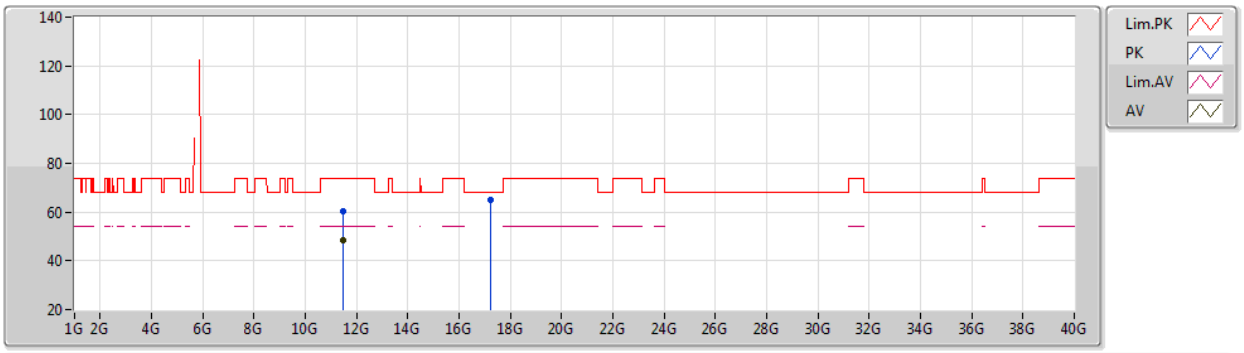

EUT Y_2TX
Setting 29
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.4594G | 63.51 | 74.00 | -10.49 | 61.16 | 3 | Horizontal | 335 | 1.62 | - | 31.70 | 5.40 | 34.75 |
| AV | 5.4594G | 50.21 | 54.00 | -3.79 | 47.86 | 3 | Horizontal | 335 | 1.62 | - | 31.70 | 5.40 | 34.75 |
| PK | 5.4762G | 64.31 | 68.20 | -3.89 | 61.96 | 3 | Horizontal | 335 | 1.62 | - | 31.70 | 5.40 | 34.75 |
| PK | 5.7394G | 120.40 | Inf | -Inf | 117.72 | 3 | Horizontal | 335 | 1.62 | - | 31.88 | 5.47 | 34.67 |
| AV | 5.7394G | 110.94 | Inf | -Inf | 108.26 | 3 | Horizontal | 335 | 1.62 | - | 31.88 | 5.47 | 34.67 |
| PK | 5.9802G | 61.95 | 68.20 | -6.25 | 58.79 | 3 | Horizontal | 335 | 1.62 | - | 32.24 | 5.50 | 34.58 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

14/11/2020



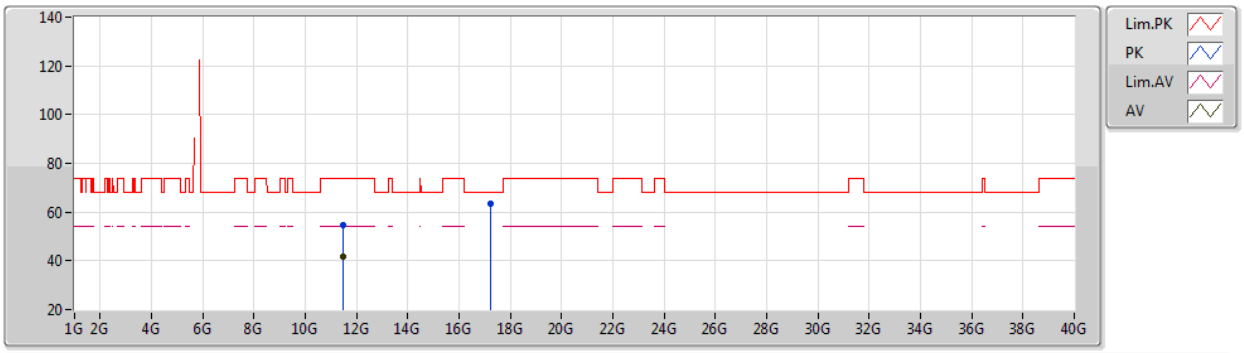

EUT Y_2TX
Setting 29
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.4918G | 60.60 | 74.00 | -13.40 | 47.31 | 3 | Vertical | 311 | 2.21 | - | 40.30 | 7.82 | 34.83 |
| AV | 11.4921G | 48.66 | 54.00 | -5.34 | 35.37 | 3 | Vertical | 311 | 2.21 | - | 40.30 | 7.82 | 34.83 |
| PK | 17.23344G | 65.08 | 68.20 | -3.12 | 48.08 | 3 | Vertical | 323 | 1.79 | - | 41.13 | 9.73 | 33.86 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5745MHz_TX

14/11/2020



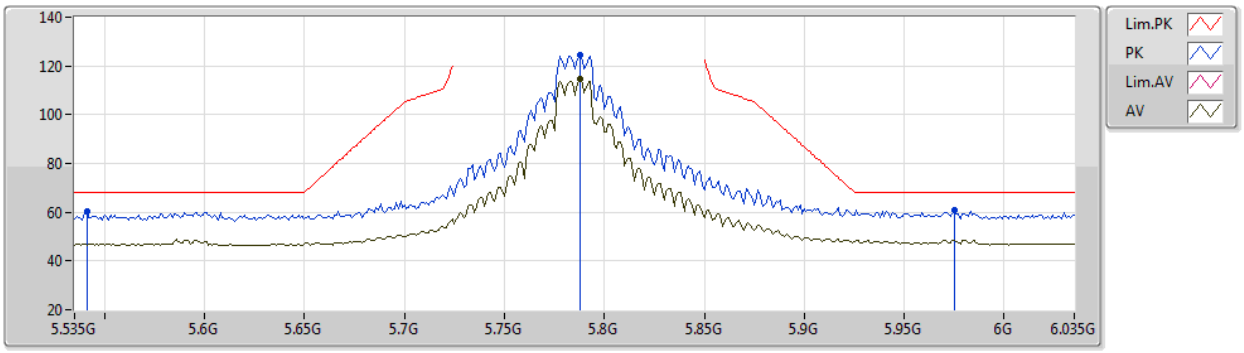

EUT Y_2TX
Setting 29
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.49654G | 54.81 | 74.00 | -19.19 | 41.52 | 3 | Horizontal | 323 | 2.25 | - | 40.30 | 7.82 | 34.83 |
| AV | 11.48994G | 41.80 | 54.00 | -12.20 | 28.51 | 3 | Horizontal | 323 | 2.25 | - | 40.30 | 7.82 | 34.83 |
| PK | 17.23728G | 63.61 | 68.20 | -4.59 | 46.59 | 3 | Horizontal | 138 | 1.80 | - | 41.15 | 9.73 | 33.86 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

14/11/2020



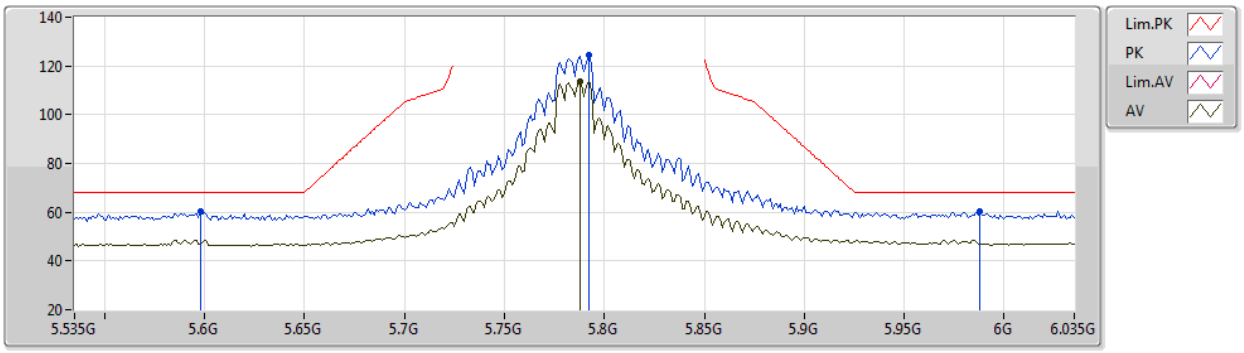

EUT Y_2TX
Setting 27
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.541G | 60.37 | 68.20 | -7.83 | 58.09 | 3 | Vertical | 347 | 1.79 | - | 31.62 | 5.40 | 34.74 |
| PK | 5.788G | 124.73 | Inf | -Inf | 121.99 | 3 | Vertical | 347 | 1.79 | - | 31.90 | 5.49 | 34.65 |
| AV | 5.788G | 114.63 | Inf | -Inf | 111.89 | 3 | Vertical | 347 | 1.79 | - | 31.90 | 5.49 | 34.65 |
| PK | 5.975G | 60.70 | 68.20 | -7.50 | 57.53 | 3 | Vertical | 347 | 1.79 | - | 32.25 | 5.50 | 34.58 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

14/11/2020



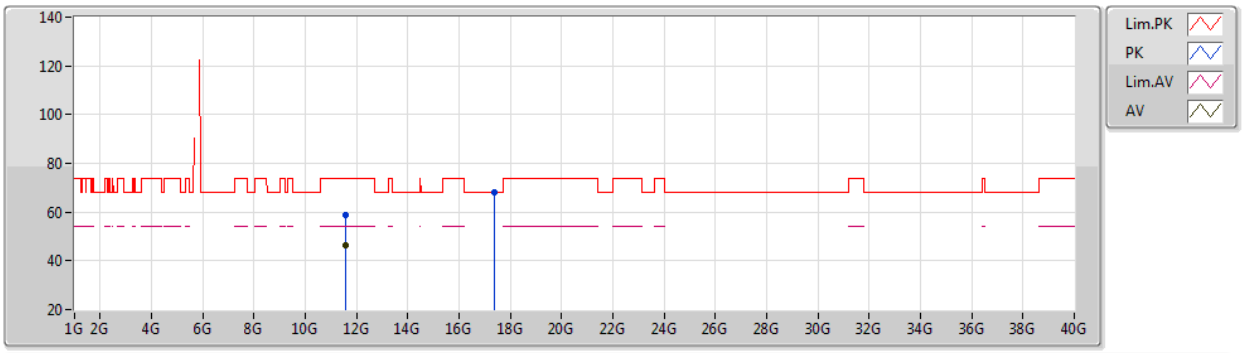

EUT Y_2TX
Setting 27
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.598G | 60.47 | 68.20 | -7.73 | 58.19 | 3 | Horizontal | 334 | 1.52 | - | 31.60 | 5.40 | 34.72 |
| PK | 5.792G | 124.27 | Inf | -Inf | 121.52 | 3 | Horizontal | 334 | 1.52 | - | 31.90 | 5.50 | 34.65 |
| AV | 5.788G | 113.87 | Inf | -Inf | 111.13 | 3 | Horizontal | 334 | 1.52 | - | 31.90 | 5.49 | 34.65 |
| PK | 5.988G | 60.56 | 68.20 | -7.64 | 57.41 | 3 | Horizontal | 334 | 1.52 | - | 32.22 | 5.50 | 34.57 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

14/11/2020



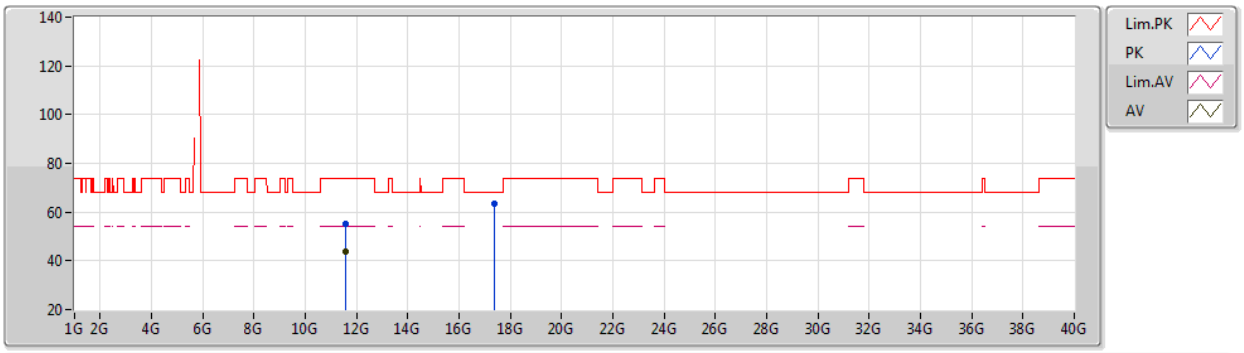

EUT Y_2TX
Setting 27
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.57156G | 58.75 | 74.00 | -15.25 | 45.67 | 3 | Vertical | 310 | 2.19 | - | 40.09 | 7.85 | 34.86 |
| AV | 11.57228G | 46.51 | 54.00 | -7.49 | 33.44 | 3 | Vertical | 310 | 2.19 | - | 40.08 | 7.85 | 34.86 |
| PK | 17.35296G | 67.93 | 68.20 | -0.27 | 50.06 | 3 | Vertical | 326 | 1.95 | - | 42.04 | 9.77 | 33.94 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5785MHz_TX

14/11/2020



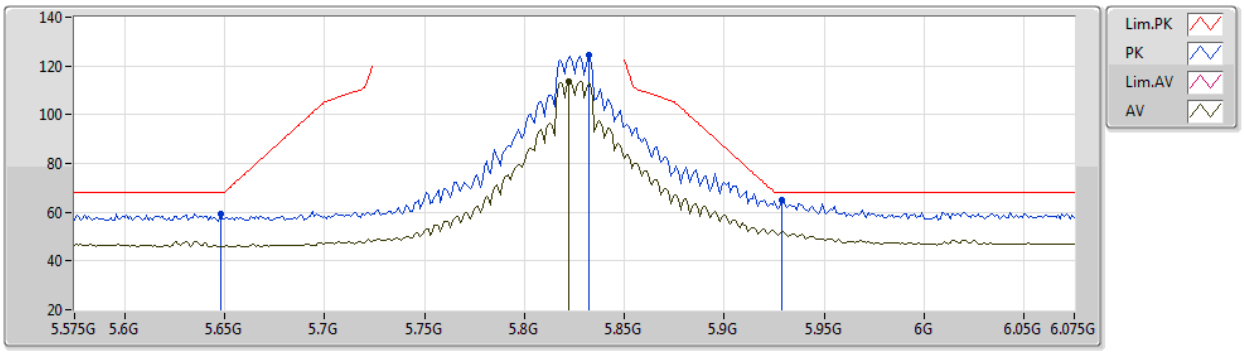

EUT Y_2TX
Setting 27
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.57G | 54.93 | 74.00 | -19.07 | 41.85 | 3 | Horizontal | 194 | 1.80 | - | 40.09 | 7.85 | 34.86 |
| AV | 11.56994G | 44.00 | 54.00 | -10.00 | 30.92 | 3 | Horizontal | 194 | 1.80 | - | 40.09 | 7.85 | 34.86 |
| PK | 17.36658G | 63.66 | 68.20 | -4.54 | 45.63 | 3 | Horizontal | 239 | 3.00 | - | 42.20 | 9.78 | 33.95 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

14/11/2020



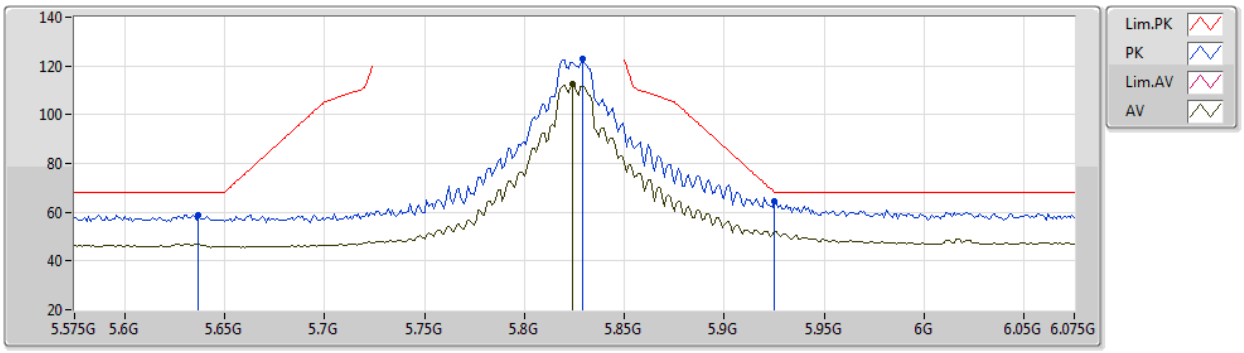

EUT Y_2TX
Setting 26
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.648G | 59.18 | 68.20 | -9.02 | 56.86 | 3 | Vertical | 335 | 1.70 | - | 31.60 | 5.42 | 34.70 |
| PK | 5.832G | 124.32 | Inf | -Inf | 121.42 | 3 | Vertical | 335 | 1.70 | - | 32.03 | 5.50 | 34.63 |
| AV | 5.822G | 113.81 | Inf | -Inf | 110.96 | 3 | Vertical | 335 | 1.70 | - | 31.99 | 5.50 | 34.64 |
| PK | 5.929G | 64.80 | 68.20 | -3.40 | 61.68 | 3 | Vertical | 335 | 1.70 | - | 32.22 | 5.50 | 34.60 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

14/11/2020



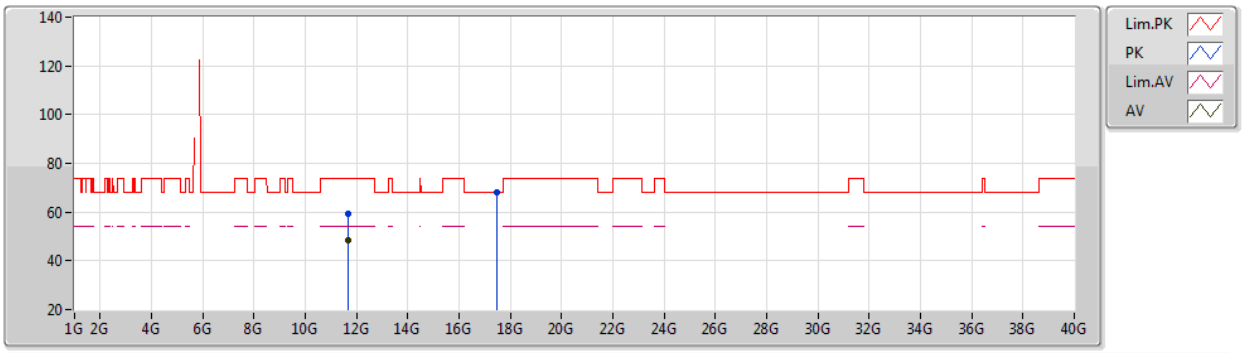

EUT Y_2TX
Setting 26
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.637G | 59.03 | 68.20 | -9.17 | 56.72 | 3 | Horizontal | 313 | 1.59 | - | 31.60 | 5.42 | 34.71 |
| PK | 5.829G | 122.82 | Inf | -Inf | 119.93 | 3 | Horizontal | 313 | 1.59 | - | 32.02 | 5.50 | 34.63 |
| AV | 5.824G | 112.47 | Inf | -Inf | 109.61 | 3 | Horizontal | 313 | 1.59 | - | 32.00 | 5.50 | 34.64 |
| PK | 5.925G | 64.54 | 68.20 | -3.66 | 61.44 | 3 | Horizontal | 313 | 1.59 | - | 32.20 | 5.50 | 34.60 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

14/11/2020



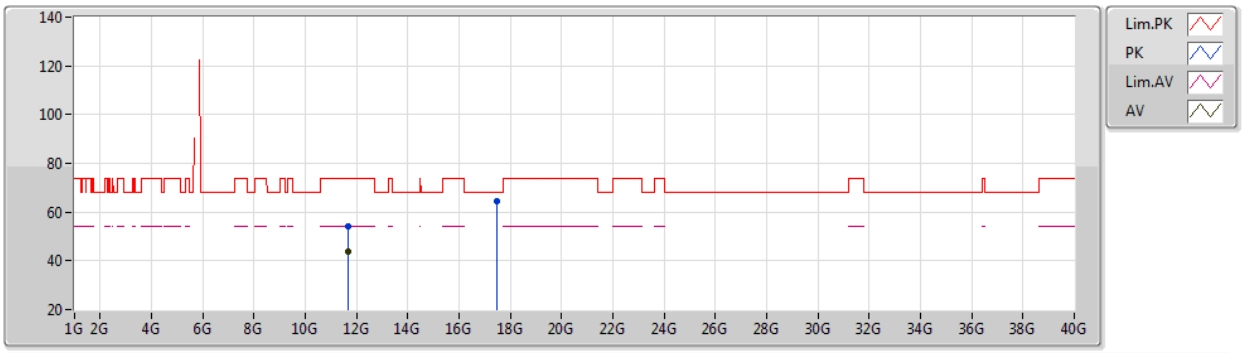

EUT Y_2TX
Setting 26
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.64796G | 59.23 | 74.00 | -14.77 | 46.57 | 3 | Vertical | 314 | 2.17 | - | 39.66 | 7.88 | 34.88 |
| AV | 11.64994G | 48.26 | 54.00 | -5.74 | 35.61 | 3 | Vertical | 314 | 2.17 | - | 39.65 | 7.88 | 34.88 |
| PK | 17.47704G | 68.00 | 68.20 | -0.20 | 49.15 | 3 | Vertical | 324 | 2.02 | - | 43.06 | 9.82 | 34.03 |

## 802.11a_Nss1,(6Mbps)_2TX

## 5825MHz_TX

14/11/2020



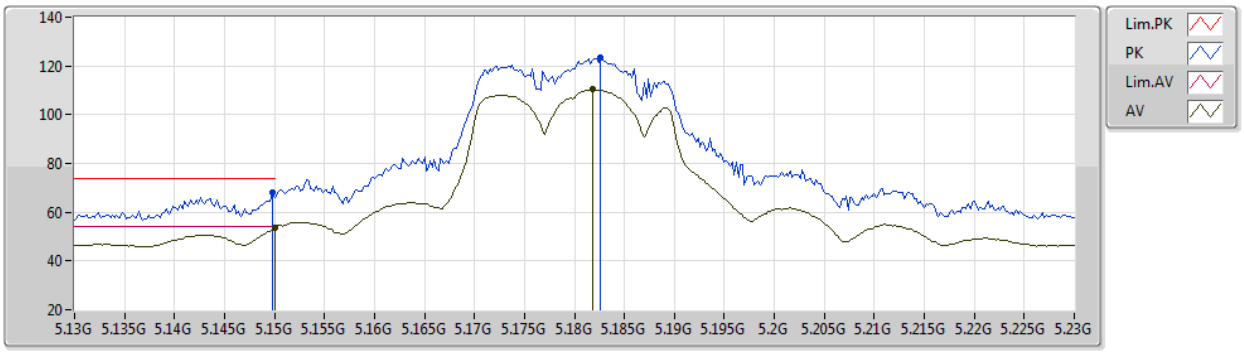

EUT Y_2TX
Setting 26
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.64982G | 54.39 | 74.00 | -19.61 | 41.74 | 3 | Horizontal | 173 | 1.80 | - | 39.65 | 7.88 | 34.88 |
| AV | 11.65G | 43.59 | 54.00 | -10.41 | 30.94 | 3 | Horizontal | 173 | 1.80 | - | 39.65 | 7.88 | 34.88 |
| PK | 17.4816G | 64.45 | 68.20 | -3.75 | 45.58 | 3 | Horizontal | 323 | 3.00 | - | 43.09 | 9.82 | 34.04 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5180MHz_TX

14/11/2020



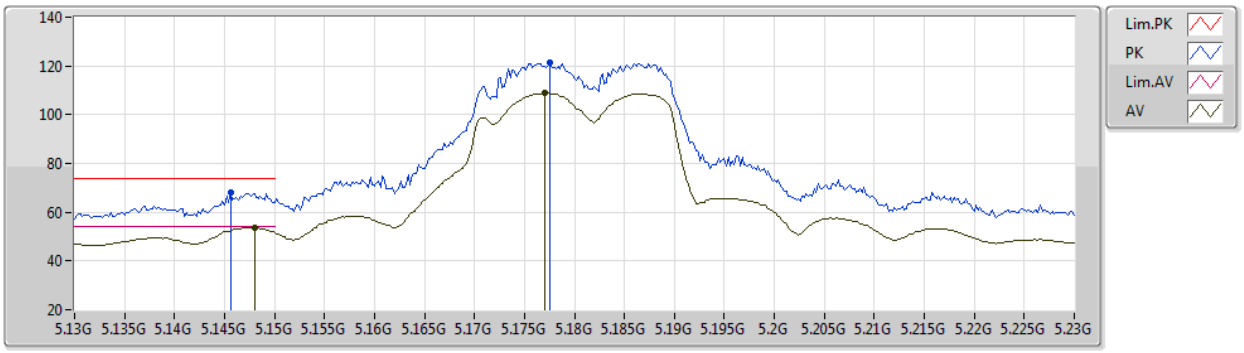

EUT Y_2TX
Setting 24
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1498G | 68.04 | 74.00 | -5.96 | 65.70 | 3 | Vertical | 360 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| AV | 5.15G | 53.51 | 54.00 | -0.49 | 51.17 | 3 | Vertical | 360 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.1826G | 123.34 | Inf | -Inf | 121.13 | 3 | Vertical | 360 | 1.80 | - | 31.67 | 5.19 | 34.65 |
| AV | 5.1818G | 110.36 | Inf | -Inf | 108.15 | 3 | Vertical | 360 | 1.80 | - | 31.67 | 5.19 | 34.65 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5180MHz_TX

14/11/2020



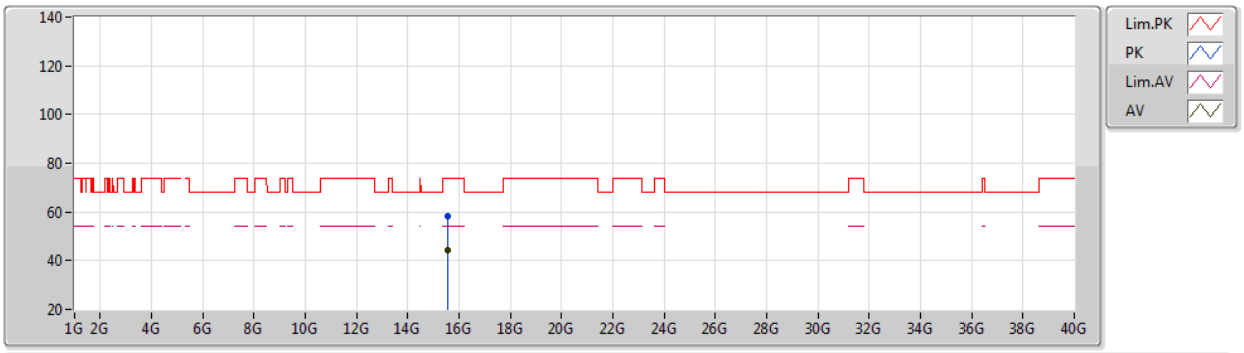

EUT Y_2TX
Setting 24
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1456G | 67.93 | 74.00 | -6.07 | 65.57 | 3 | Horizontal | 344 | 1.83 | - | 31.82 | 5.17 | 34.63 |
| AV | 5.148G | 53.63 | 54.00 | -0.37 | 51.28 | 3 | Horizontal | 344 | 1.83 | - | 31.81 | 5.17 | 34.63 |
| PK | 5.1776G | 121.25 | Inf | -Inf | 119.01 | 3 | Horizontal | 344 | 1.83 | - | 31.69 | 5.19 | 34.64 |
| AV | 5.177G | 108.84 | Inf | -Inf | 106.60 | 3 | Horizontal | 344 | 1.83 | - | 31.69 | 5.19 | 34.64 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5180MHz_TX

14/11/2020



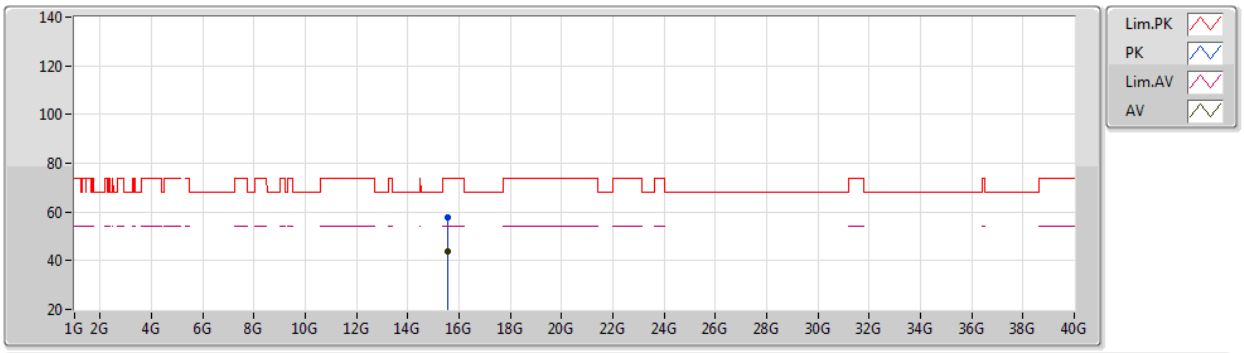

EUT Y_2TX
Setting 24
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.5407G | 58.13 | 74.00 | -15.87 | 45.84 | 3 | Vertical | 358 | 1.94 | - | 37.90 | 9.21 | 34.82 |
| AV | 15.54088G | 44.46 | 54.00 | -9.54 | 32.17 | 3 | Vertical | 358 | 1.94 | - | 37.90 | 9.21 | 34.82 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5180MHz_TX

14/11/2020



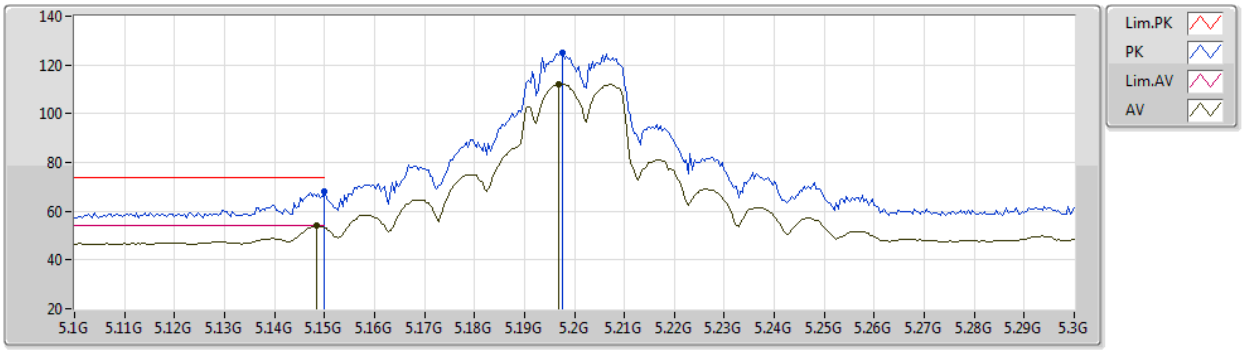

EUT Y_2TX
Setting 24
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.54392G | 57.83 | 74.00 | -16.17 | 45.56 | 3 | Horizontal | 166 | 2.71 | - | 37.88 | 9.21 | 34.82 |
| AV | 15.53872G | 43.92 | 54.00 | -10.08 | 31.62 | 3 | Horizontal | 166 | 2.71 | - | 37.91 | 9.21 | 34.82 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5200MHz_TX

14/11/2020



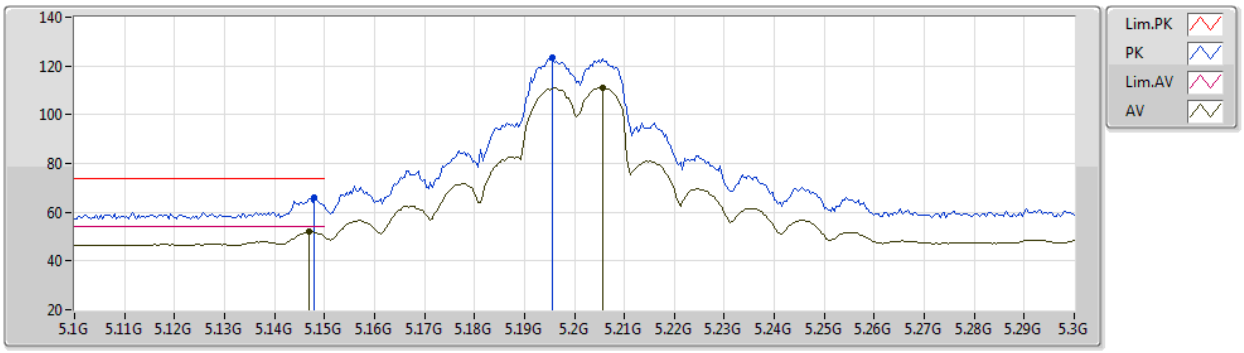

EUT Y_2TX
Setting 26.5
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.15G | 68.19 | 74.00 | -5.81 | 65.85 | 3 | Vertical | 359 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| AV | 5.1484G | 53.94 | 54.00 | -0.06 | 51.59 | 3 | Vertical | 359 | 1.80 | - | 31.81 | 5.17 | 34.63 |
| PK | 5.1976G | 124.77 | Inf | -Inf | 122.61 | 3 | Vertical | 359 | 1.80 | - | 31.61 | 5.20 | 34.65 |
| AV | 5.1968G | 112.05 | Inf | -Inf | 109.89 | 3 | Vertical | 359 | 1.80 | - | 31.61 | 5.20 | 34.65 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5200MHz_TX

14/11/2020



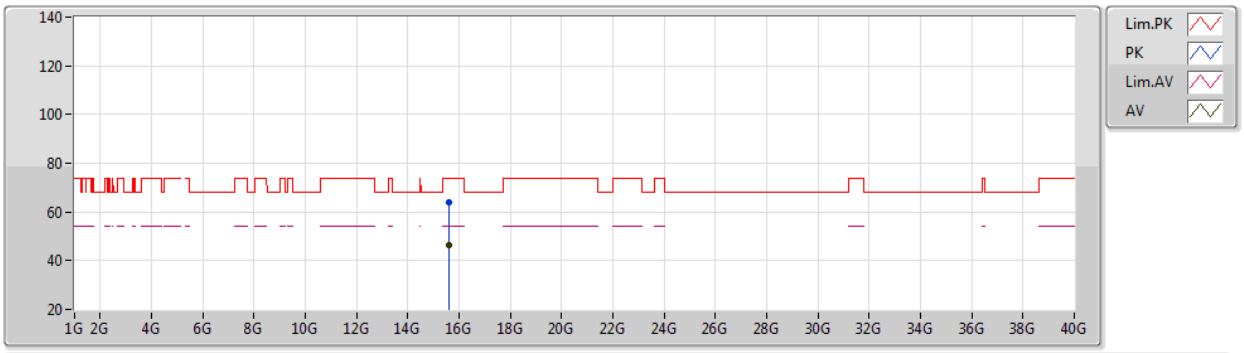

EUT Y_2TX
Setting 26.5
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.148G | 65.93 | 74.00 | -8.07 | 63.58 | 3 | Horizontal | 348 | 1.89 | - | 31.81 | 5.17 | 34.63 |
| AV | 5.1468G | 51.89 | 54.00 | -2.11 | 49.54 | 3 | Horizontal | 348 | 1.89 | - | 31.81 | 5.17 | 34.63 |
| PK | 5.1956G | 123.24 | Inf | -Inf | 121.07 | 3 | Horizontal | 348 | 1.89 | - | 31.62 | 5.20 | 34.65 |
| AV | 5.2056G | 111.01 | Inf | -Inf | 108.87 | 3 | Horizontal | 348 | 1.89 | - | 31.58 | 5.21 | 34.65 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5200MHz_TX

14/11/2020



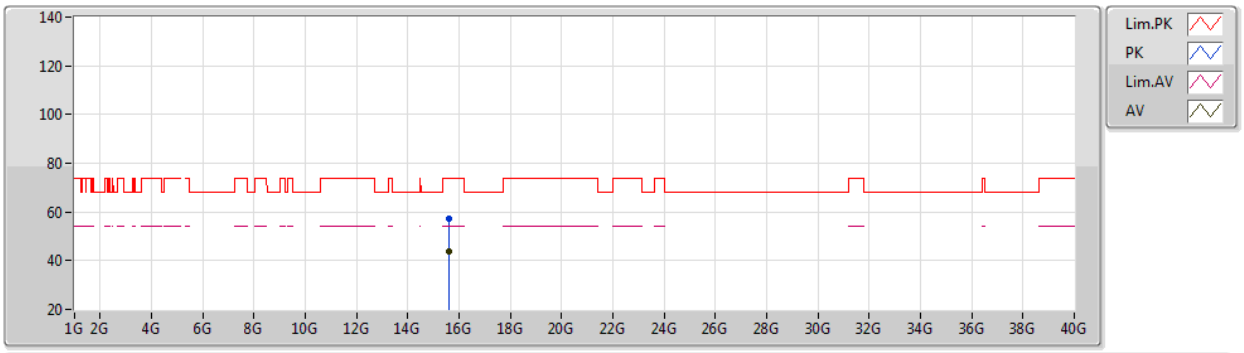

EUT Y_2TX
Setting 26.5
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.59754G | 63.96 | 74.00 | -10.04 | 52.01 | 3 | Vertical | 356 | 1.35 | - | 37.61 | 9.22 | 34.88 |
| AV | 15.59514G | 46.62 | 54.00 | -7.38 | 34.66 | 3 | Vertical | 356 | 1.35 | - | 37.62 | 9.22 | 34.88 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5200MHz_TX

14/11/2020



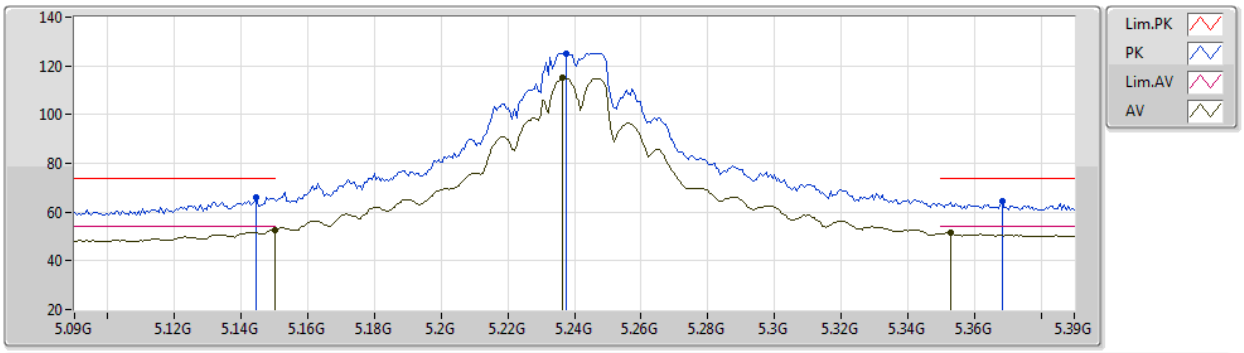

EUT Y_2TX
Setting 26.5
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.60426G | 57.40 | 74.00 | -16.60 | 45.47 | 3 | Horizontal | 30 | 1.24 | - | 37.60 | 9.22 | 34.89 |
| AV | 15.59784G | 43.54 | 54.00 | -10.46 | 31.59 | 3 | Horizontal | 30 | 1.24 | - | 37.61 | 9.22 | 34.88 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5240MHz_TX

14/11/2020



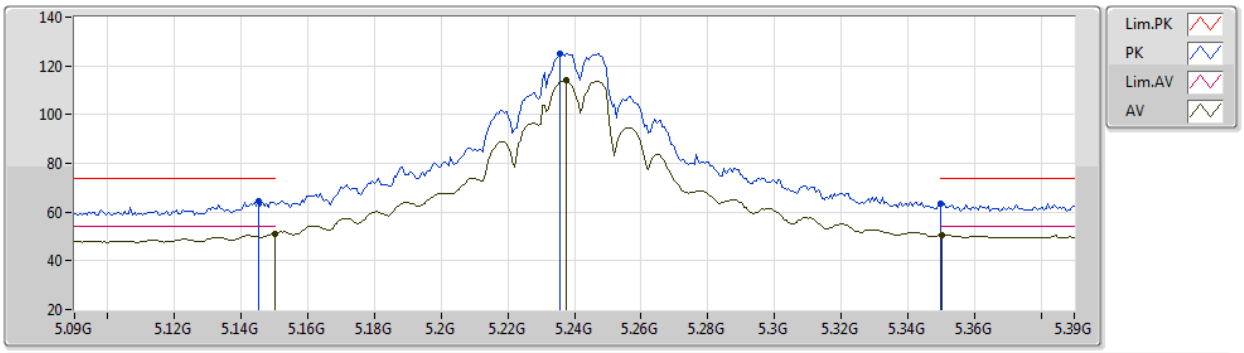

EUT Y_2TX
Setting 26.5
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1446G | 66.08 | 74.00 | -7.92 | 63.72 | 3 | Vertical | 359 | 1.80 | - | 31.82 | 5.17 | 34.63 |
| AV | 5.15G | 52.72 | 54.00 | -1.28 | 50.38 | 3 | Vertical | 359 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.2376G | 125.03 | Inf | -Inf | 123.01 | 3 | Vertical | 359 | 1.80 | - | 31.45 | 5.24 | 34.67 |
| AV | 5.2364G | 115.13 | Inf | -Inf | 113.11 | 3 | Vertical | 359 | 1.80 | - | 31.45 | 5.24 | 34.67 |
| PK | 5.3684G | 64.29 | 74.00 | -9.71 | 62.18 | 3 | Vertical | 359 | 1.80 | - | 31.45 | 5.37 | 34.71 |
| AV | 5.3528G | 51.34 | 54.00 | -2.66 | 49.38 | 3 | Vertical | 359 | 1.80 | - | 31.32 | 5.35 | 34.71 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5240MHz_TX

14/11/2020



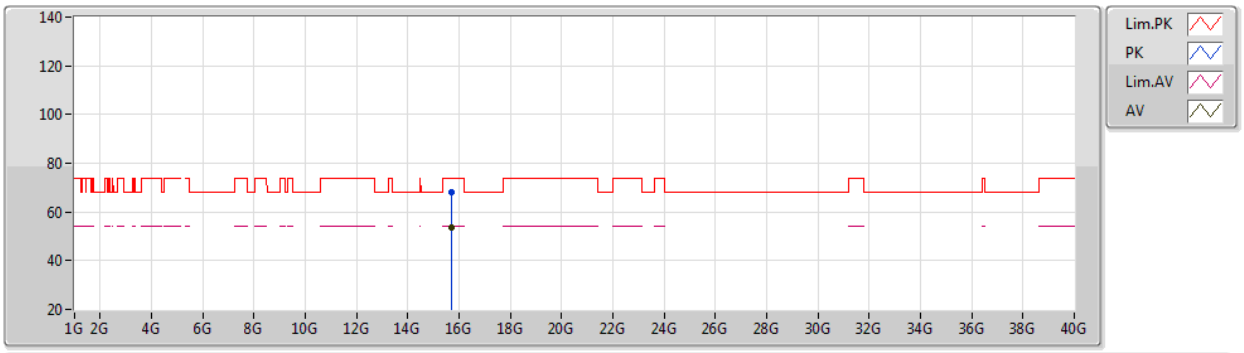

EUT Y_2TX
Setting 26.5
01-A-G-2-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1452G | 64.40 | 74.00 | -9.60 | 62.04 | 3 | Horizontal | 344 | 1.80 | - | 31.82 | 5.17 | 34.63 |
| AV | 5.15G | 51.22 | 54.00 | -2.78 | 48.88 | 3 | Horizontal | 344 | 1.80 | - | 31.80 | 5.17 | 34.63 |
| PK | 5.2358G | 124.93 | Inf | -Inf | 122.89 | 3 | Horizontal | 344 | 1.80 | - | 31.46 | 5.24 | 34.66 |
| AV | 5.2376G | 113.94 | Inf | -Inf | 111.92 | 3 | Horizontal | 344 | 1.80 | - | 31.45 | 5.24 | 34.67 |
| PK | 5.35G | 63.70 | 74.00 | -10.30 | 61.76 | 3 | Horizontal | 344 | 1.80 | - | 31.30 | 5.35 | 34.71 |
| AV | 5.3504G | 50.72 | 54.00 | -3.28 | 48.78 | 3 | Horizontal | 344 | 1.80 | - | 31.30 | 5.35 | 34.71 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5240MHz_TX

14/11/2020



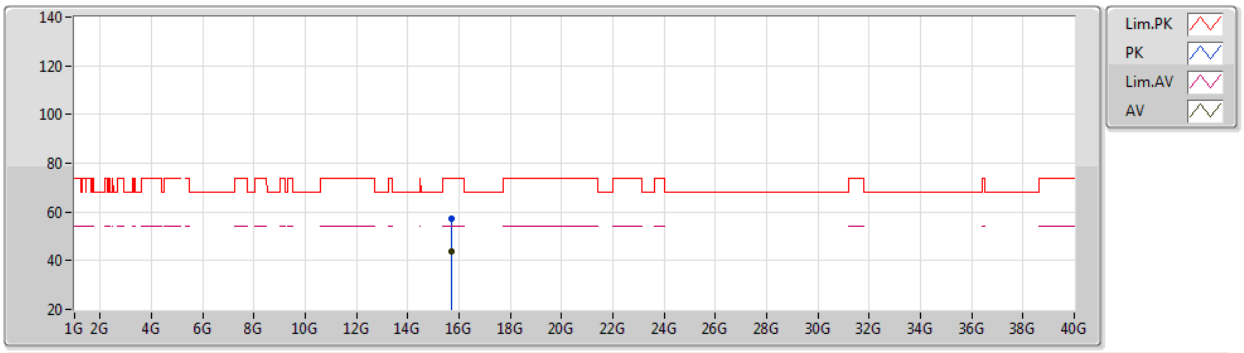

EUT Y_2TX
Setting 26.5
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.71604G | 68.29 | 74.00 | -5.71 | 56.50 | 3 | Vertical | 340 | 1.28 | - | 37.55 | 9.24 | 35.00 |
| AV | 15.71556G | 53.73 | 54.00 | -0.27 | 41.94 | 3 | Vertical | 340 | 1.28 | - | 37.55 | 9.24 | 35.00 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5240MHz_TX

14/11/2020



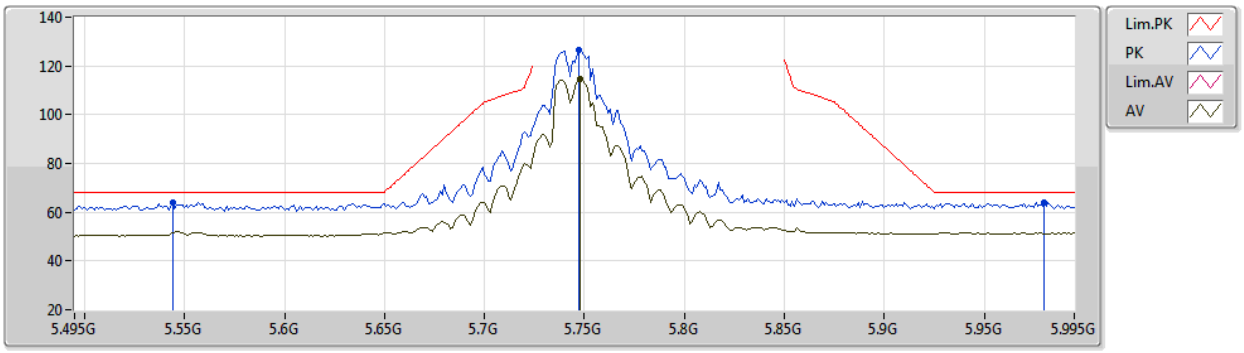

EUT Y_2TX
Setting 26.5
01-A-G-2

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.71826G | 57.46 | 74.00 | -16.54 | 45.67 | 3 | Horizontal | 36 | 1.32 | - | 37.55 | 9.24 | 35.00 |
| AV | 15.7161G | 43.72 | 54.00 | -10.28 | 31.93 | 3 | Horizontal | 36 | 1.32 | - | 37.55 | 9.24 | 35.00 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5745MHz_TX

14/11/2020



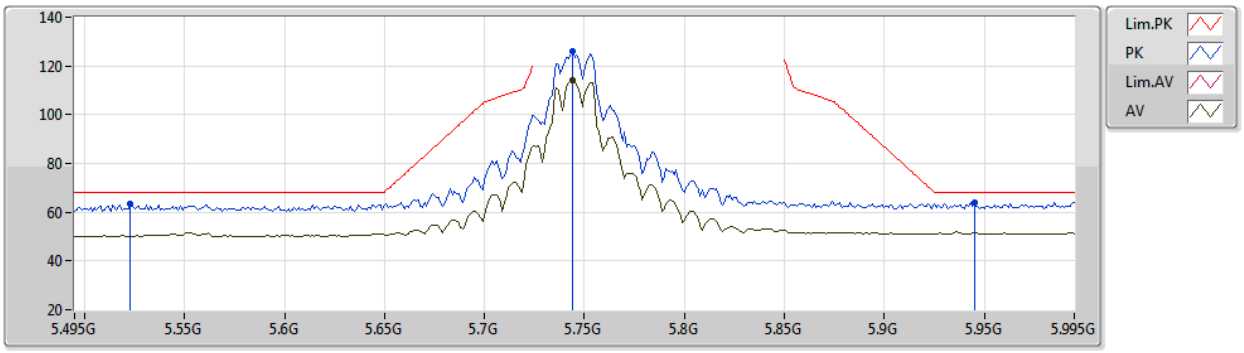

EUT Y_2TX
Setting 27
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.544G | 63.76 | 68.20 | -4.44 | 56.78 | 3 | Vertical | 343 | 1.79 | - | 33.80 | 5.87 | 32.69 |
| PK | 5.747G | 126.47 | Inf | -Inf | 119.06 | 3 | Vertical | 343 | 1.79 | - | 34.19 | 5.97 | 32.75 |
| AV | 5.748G | 114.63 | Inf | -Inf | 107.22 | 3 | Vertical | 343 | 1.79 | - | 34.19 | 5.97 | 32.75 |
| PK | 5.98G | 64.18 | 68.20 | -4.02 | 55.70 | 3 | Vertical | 343 | 1.79 | - | 35.12 | 6.18 | 32.82 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5745MHz_TX

14/11/2020



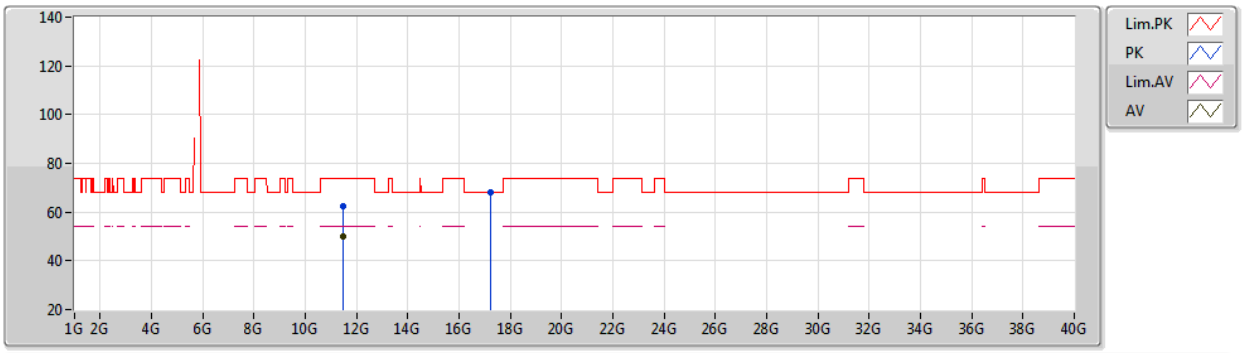

EUT Y_2TX
Setting 27
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.523G | 63.40 | 68.20 | -4.80 | 56.42 | 3 | Horizontal | 337 | 1.61 | - | 33.80 | 5.86 | 32.68 |
| PK | 5.744G | 125.91 | Inf | -Inf | 118.51 | 3 | Horizontal | 337 | 1.61 | - | 34.18 | 5.97 | 32.75 |
| AV | 5.744G | 113.90 | Inf | -Inf | 106.50 | 3 | Horizontal | 337 | 1.61 | - | 34.18 | 5.97 | 32.75 |
| PK | 5.945G | 63.82 | 68.20 | -4.38 | 55.50 | 3 | Horizontal | 337 | 1.61 | - | 34.98 | 6.15 | 32.81 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5745MHz_TX

14/11/2020



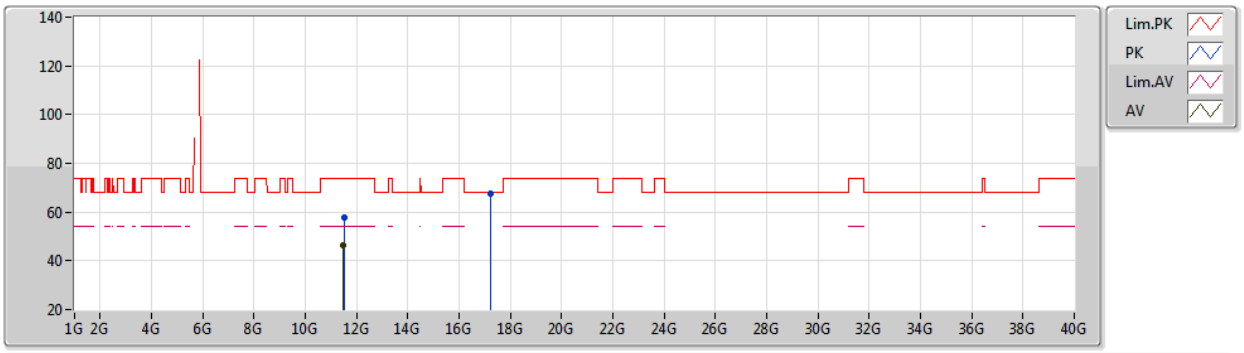

EUT Y_2TX
Setting 27
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.4934G | 62.33 | 74.00 | -11.67 | 47.86 | 3 | Vertical | 318 | 1.58 | - | 39.20 | 9.35 | 34.08 |
| AV | 11.4934G | 49.83 | 54.00 | -4.17 | 35.36 | 3 | Vertical | 318 | 1.58 | - | 39.20 | 9.35 | 34.08 |
| PK | 17.22918G | 68.18 | 68.20 | -0.02 | 48.26 | 3 | Vertical | 37 | 1.99 | - | 41.32 | 13.08 | 34.48 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5745MHz_TX

14/11/2020



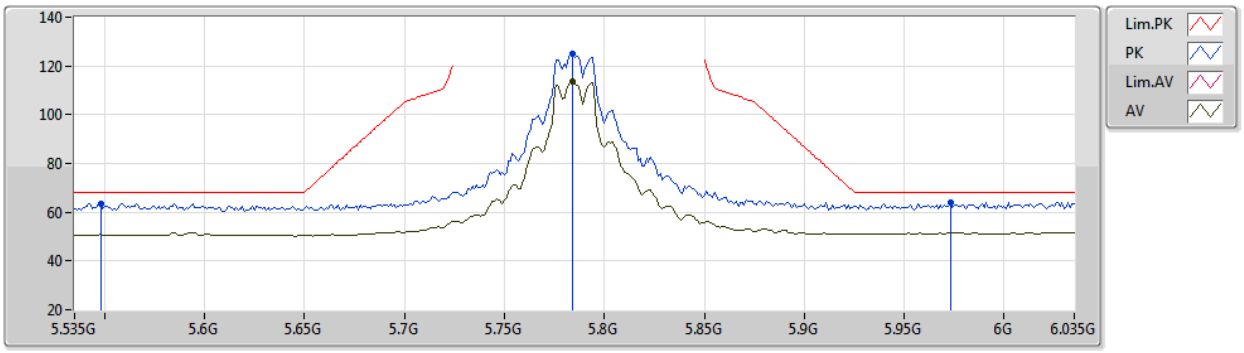

EUT Y_2TX
Setting 27
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.5059G | 57.72 | 74.00 | -16.28 | 43.26 | 3 | Horizontal | 290 | 1.79 | - | 39.19 | 9.35 | 34.08 |
| AV | 11.4899G | 46.56 | 54.00 | -7.44 | 32.09 | 3 | Horizontal | 290 | 1.79 | - | 39.20 | 9.34 | 34.07 |
| PK | 17.2459G | 67.50 | 68.20 | -0.70 | 47.50 | 3 | Horizontal | 141 | 1.80 | - | 41.38 | 13.10 | 34.48 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5785MHz_TX

14/11/2020



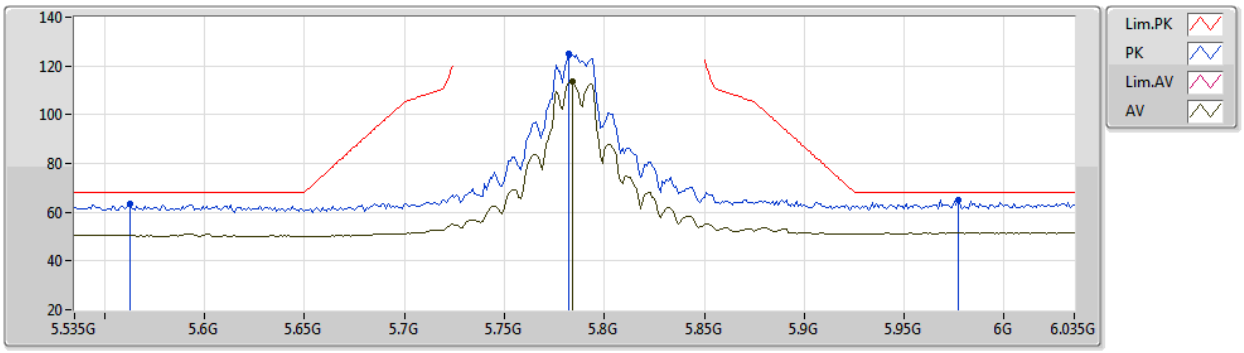

EUT Y_2TX
Setting 26
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.548G | 63.53 | 68.20 | -4.67 | 56.55 | 3 | Vertical | 12 | 1.98 | - | 33.80 | 5.87 | 32.69 |
| PK | 5.784G | 124.85 | Inf | -Inf | 117.42 | 3 | Vertical | 12 | 1.98 | - | 34.20 | 5.99 | 32.76 |
| AV | 5.784G | 113.61 | Inf | -Inf | 106.18 | 3 | Vertical | 12 | 1.98 | - | 34.20 | 5.99 | 32.76 |
| PK | 5.973G | 63.84 | 68.20 | -4.36 | 55.40 | 3 | Vertical | 12 | 1.98 | - | 35.09 | 6.17 | 32.82 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5785MHz_TX

14/11/2020



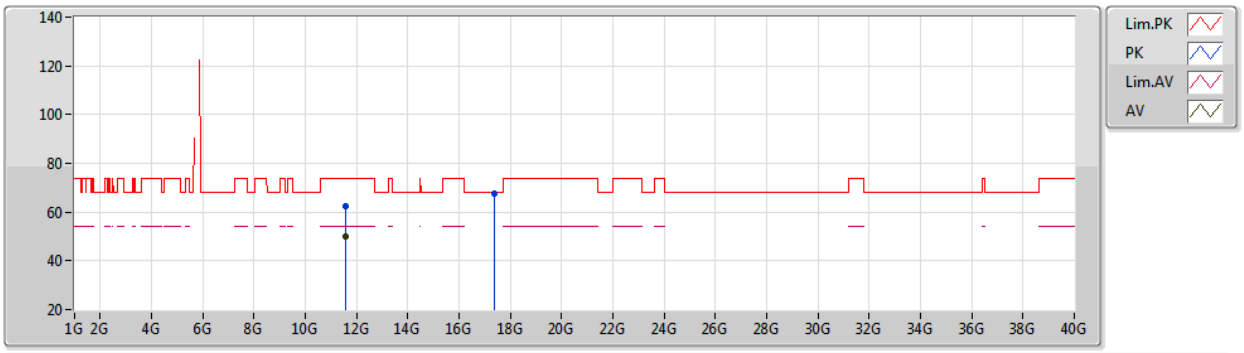

EUT Y_2TX
Setting 26
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.563G | 63.59 | 68.20 | -4.61 | 56.58 | 3 | Horizontal | 336 | 1.66 | - | 33.83 | 5.88 | 32.70 |
| PK | 5.782G | 124.96 | Inf | -Inf | 117.53 | 3 | Horizontal | 336 | 1.66 | - | 34.20 | 5.99 | 32.76 |
| AV | 5.784G | 113.42 | Inf | -Inf | 105.99 | 3 | Horizontal | 336 | 1.66 | - | 34.20 | 5.99 | 32.76 |
| PK | 5.977G | 64.99 | 68.20 | -3.21 | 56.52 | 3 | Horizontal | 336 | 1.66 | - | 35.11 | 6.18 | 32.82 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5785MHz_TX

14/11/2020



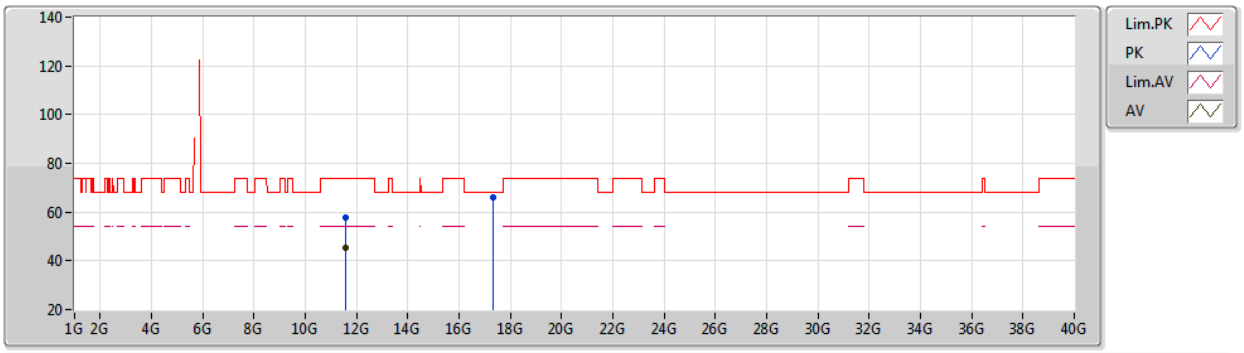

EUT Y_2TX
Setting 26
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.5728G | 62.66 | 74.00 | -11.34 | 48.26 | 3 | Vertical | 317 | 2.00 | - | 39.13 | 9.39 | 34.12 |
| AV | 11.5739G | 49.76 | 54.00 | -4.24 | 35.36 | 3 | Vertical | 317 | 2.00 | - | 39.13 | 9.39 | 34.12 |
| PK | 17.3549G | 67.83 | 68.20 | -0.37 | 47.38 | 3 | Vertical | 328 | 1.99 | - | 41.76 | 13.18 | 34.49 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5785MHz_TX

14/11/2020



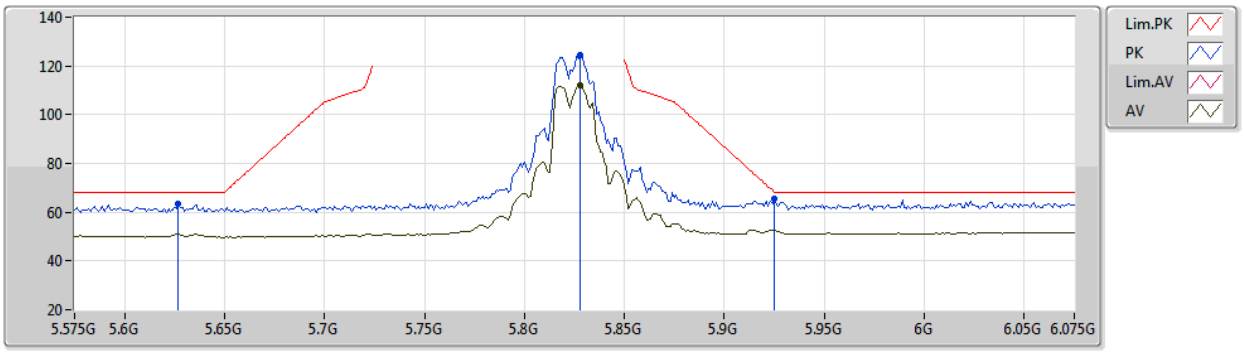

EUT Y_2TX
Setting 26
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.5743G | 57.58 | 74.00 | -16.42 | 43.18 | 3 | Horizontal | 244 | 1.80 | - | 39.13 | 9.39 | 34.12 |
| AV | 11.5699G | 45.35 | 54.00 | -8.65 | 30.96 | 3 | Horizontal | 244 | 1.80 | - | 39.13 | 9.38 | 34.12 |
| PK | 17.3459G | 66.15 | 68.20 | -2.05 | 45.72 | 3 | Horizontal | 170 | 2.41 | - | 41.74 | 13.18 | 34.49 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5825MHz_TX

14/11/2020



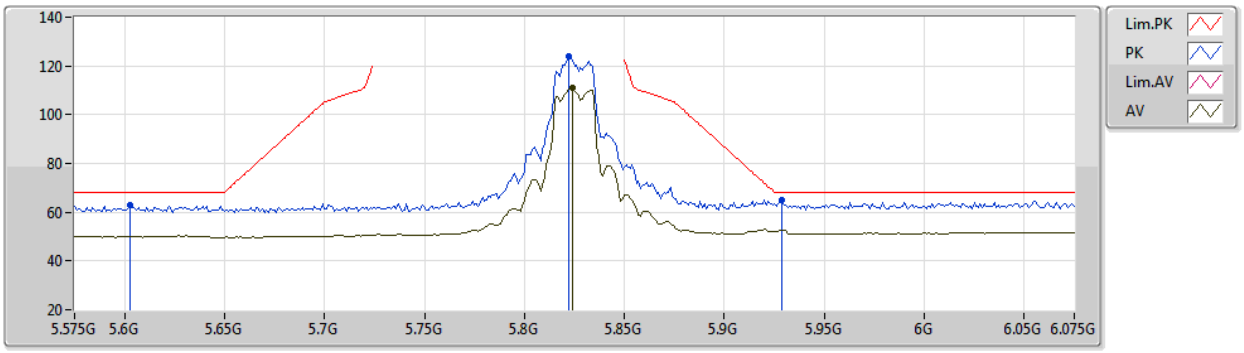

EUT Y_2TX
Setting 24
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.627G | 63.27 | 68.20 | -4.93 | 56.18 | 3 | Vertical | 342 | 1.80 | - | 33.90 | 5.91 | 32.72 |
| PK | 5.828G | 124.26 | Inf | -Inf | 116.63 | 3 | Vertical | 342 | 1.80 | - | 34.37 | 6.03 | 32.77 |
| AV | 5.828G | 112.09 | Inf | -Inf | 104.46 | 3 | Vertical | 342 | 1.80 | - | 34.37 | 6.03 | 32.77 |
| PK | 5.925G | 65.44 | 68.20 | -2.76 | 57.22 | 3 | Vertical | 342 | 1.80 | - | 34.90 | 6.13 | 32.81 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5825MHz_TX

14/11/2020



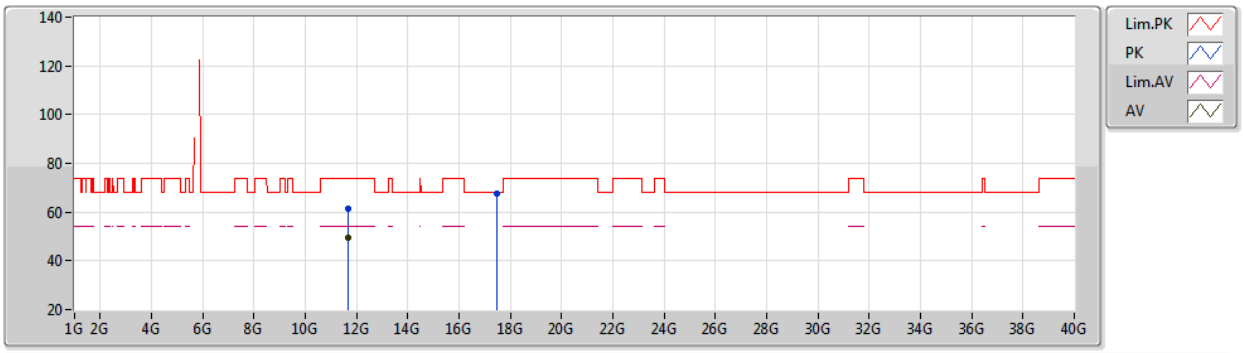

EUT Y_2TX
Setting 24
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.603G | 62.70 | 68.20 | -5.50 | 55.61 | 3 | Horizontal | 314 | 1.60 | - | 33.90 | 5.90 | 32.71 |
| PK | 5.822G | 123.75 | Inf | -Inf | 116.17 | 3 | Horizontal | 314 | 1.60 | - | 34.33 | 6.02 | 32.77 |
| AV | 5.824G | 110.82 | Inf | -Inf | 103.23 | 3 | Horizontal | 314 | 1.60 | - | 34.34 | 6.02 | 32.77 |
| PK | 5.929G | 64.91 | 68.20 | -3.29 | 56.67 | 3 | Horizontal | 314 | 1.60 | - | 34.92 | 6.13 | 32.81 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5825MHz_TX

14/11/2020



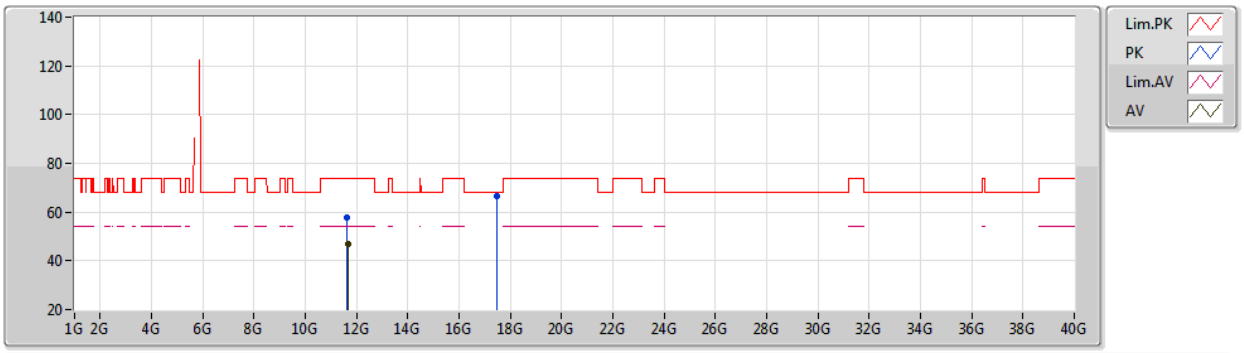

EUT Y_2TX
Setting 24
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.6529G | 61.21 | 74.00 | -12.79 | 46.90 | 3 | Vertical | 315 | 2.02 | - | 39.05 | 9.43 | 34.17 |
| AV | 11.65G | 49.45 | 54.00 | -4.55 | 35.14 | 3 | Vertical | 315 | 2.02 | - | 39.05 | 9.43 | 34.17 |
| PK | 17.4768G | 67.76 | 68.20 | -0.44 | 47.07 | 3 | Vertical | 328 | 1.99 | - | 41.90 | 13.28 | 34.49 |

## 802.11ax HEW20_Nss1,(MCS0)_2TX

## 5825MHz_TX

14/11/2020



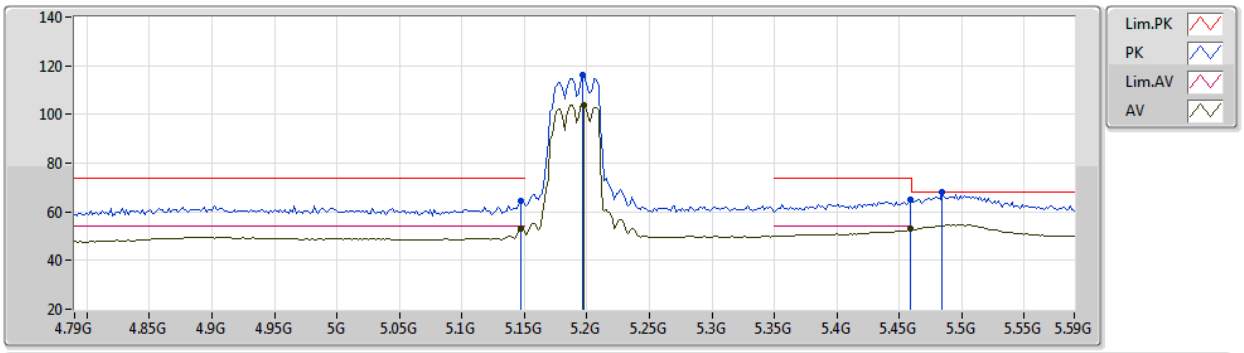

EUT Y_2TX
Setting 24
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.638G | 58.00 | 74.00 | -16.00 | 43.68 | 3 | Horizontal | 288 | 1.91 | - | 39.06 | 9.42 | 34.16 |
| AV | 11.6499G | 46.70 | 54.00 | -7.30 | 32.40 | 3 | Horizontal | 288 | 1.91 | - | 39.05 | 9.42 | 34.17 |
| PK | 17.4749G | 66.43 | 68.20 | -1.77 | 45.74 | 3 | Horizontal | 295 | 1.80 | - | 41.90 | 13.28 | 34.49 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5190MHz_TX

14/11/2020



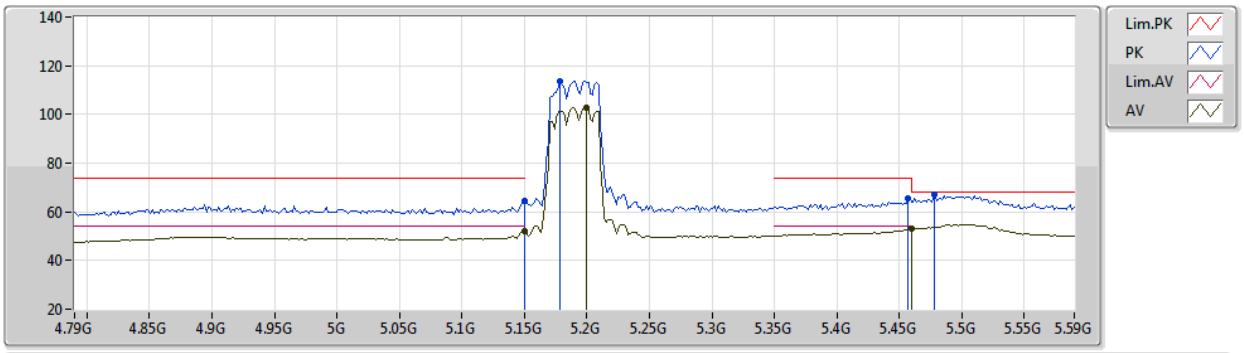

EUT Y_2TX
Setting 18
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1468G | 64.59 | 74.00 | -9.41 | 58.94 | 3 | Vertical | 360 | 1.91 | - | 32.80 | 5.65 | 32.80 |
| AV | 5.1468G | 53.05 | 54.00 | -0.95 | 47.40 | 3 | Vertical | 360 | 1.91 | - | 32.80 | 5.65 | 32.80 |
| PK | 5.1964G | 116.31 | Inf | -Inf | 110.50 | 3 | Vertical | 360 | 1.91 | - | 32.89 | 5.70 | 32.78 |
| AV | 5.198G | 103.77 | Inf | -Inf | 97.95 | 3 | Vertical | 360 | 1.91 | - | 32.90 | 5.70 | 32.78 |
| PK | 5.4588G | 65.01 | 74.00 | -8.99 | 58.22 | 3 | Vertical | 360 | 1.91 | - | 33.64 | 5.83 | 32.68 |
| AV | 5.4588G | 52.87 | 54.00 | -1.13 | 46.08 | 3 | Vertical | 360 | 1.91 | - | 33.64 | 5.83 | 32.68 |
| PK | 5.4844G | 67.88 | 68.20 | -0.32 | 60.97 | 3 | Vertical | 360 | 1.91 | - | 33.74 | 5.84 | 32.67 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5190MHz_TX

14/11/2020



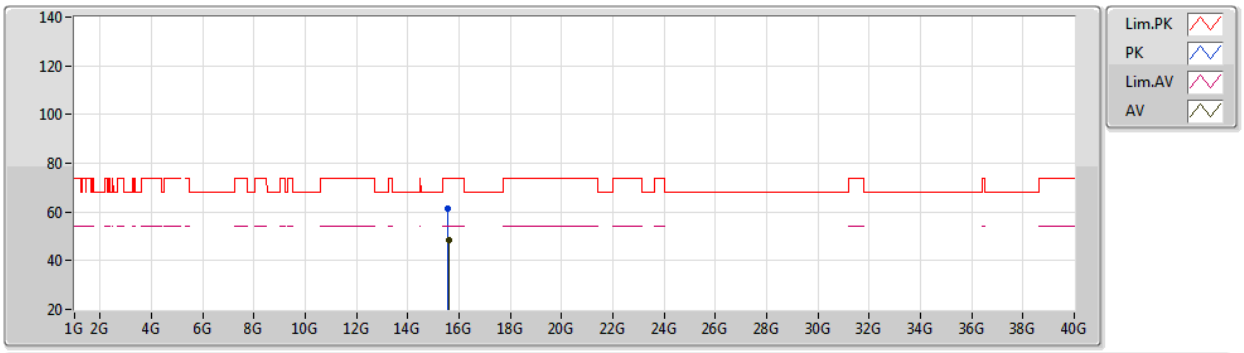

EUT Y_2TX
Setting 18
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.15G | 64.30 | 74.00 | -9.70 | 58.65 | 3 | Horizontal | 355 | 1.92 | - | 32.80 | 5.65 | 32.80 |
| AV | 5.15G | 52.14 | 54.00 | -1.86 | 46.49 | 3 | Horizontal | 355 | 1.92 | - | 32.80 | 5.65 | 32.80 |
| PK | 5.1788G | 113.59 | Inf | -Inf | 107.84 | 3 | Horizontal | 355 | 1.92 | - | 32.86 | 5.68 | 32.79 |
| AV | 5.1996G | 102.96 | Inf | -Inf | 97.14 | 3 | Horizontal | 355 | 1.92 | - | 32.90 | 5.70 | 32.78 |
| PK | 5.4572G | 65.52 | 74.00 | -8.48 | 58.74 | 3 | Horizontal | 355 | 1.92 | - | 33.63 | 5.83 | 32.68 |
| AV | 5.46G | 52.94 | 54.00 | -1.06 | 46.15 | 3 | Horizontal | 355 | 1.92 | - | 33.64 | 5.83 | 32.68 |
| PK | 5.478G | 66.97 | 68.20 | -1.23 | 60.10 | 3 | Horizontal | 355 | 1.92 | - | 33.71 | 5.84 | 32.68 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5190MHz_TX

14/11/2020



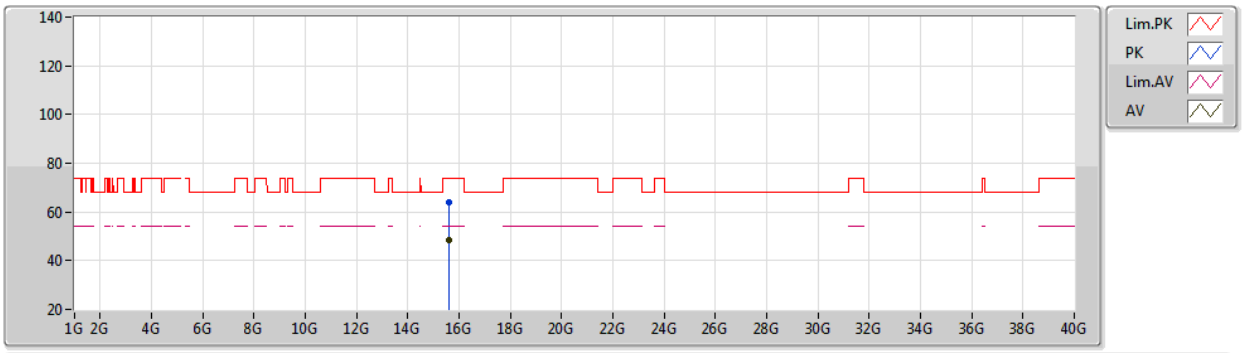

EUT Y_2TX
Setting 18
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.5485G | 61.33 | 74.00 | -12.67 | 45.39 | 3 | Vertical | 171 | 1.80 | - | 38.45 | 11.76 | 34.27 |
| AV | 15.5924G | 48.24 | 54.00 | -5.76 | 32.43 | 3 | Vertical | 171 | 1.80 | - | 38.32 | 11.79 | 34.30 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5190MHz_TX

14/11/2020



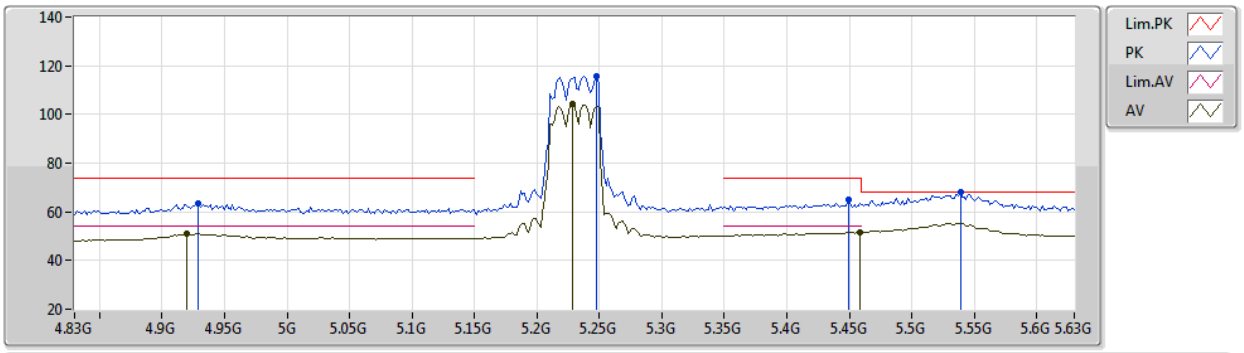

EUT Y_2TX
Setting 18
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.5852G | 63.78 | 74.00 | -10.22 | 47.94 | 3 | Horizontal | 296 | 1.80 | - | 38.34 | 11.79 | 34.29 |
| AV | 15.5941G | 48.25 | 54.00 | -5.75 | 32.43 | 3 | Horizontal | 296 | 1.80 | - | 38.32 | 11.80 | 34.30 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5230MHz_TX

14/11/2020



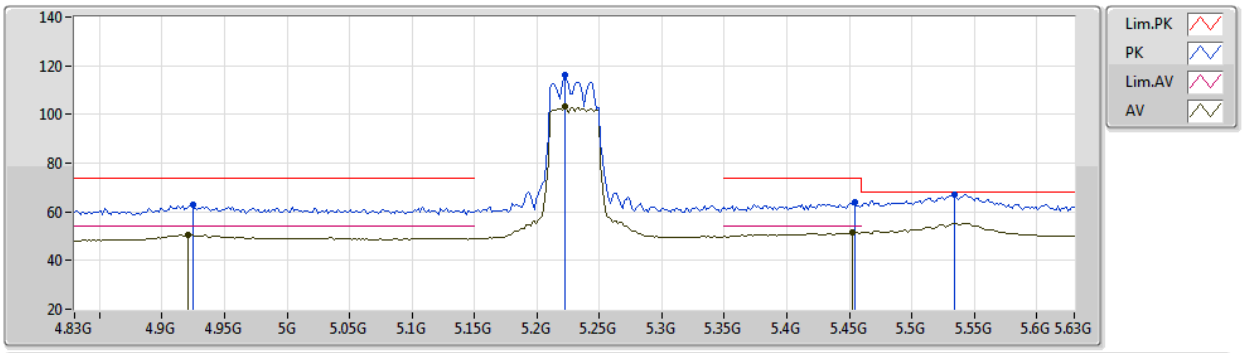

EUT Y_2TX
Setting 18.5
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.9292G | 63.47 | 74.00 | -10.53 | 57.95 | 3 | Vertical | 356 | 1.88 | - | 32.92 | 5.46 | 32.86 |
| AV | 4.9196G | 51.05 | 54.00 | -2.95 | 45.58 | 3 | Vertical | 356 | 1.88 | - | 32.88 | 5.46 | 32.87 |
| PK | 5.2476G | 115.54 | Inf | -Inf | 109.68 | 3 | Vertical | 356 | 1.88 | - | 32.90 | 5.72 | 32.76 |
| AV | 5.2284G | 104.27 | Inf | -Inf | 98.43 | 3 | Vertical | 356 | 1.88 | - | 32.90 | 5.71 | 32.77 |
| PK | 5.4492G | 64.84 | 74.00 | -9.16 | 58.11 | 3 | Vertical | 356 | 1.88 | - | 33.60 | 5.82 | 32.69 |
| AV | 5.4588G | 51.78 | 54.00 | -2.22 | 44.99 | 3 | Vertical | 356 | 1.88 | - | 33.64 | 5.83 | 32.68 |
| PK | 5.5388G | 67.96 | 68.20 | -0.24 | 60.98 | 3 | Vertical | 356 | 1.88 | - | 33.80 | 5.87 | 32.69 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5230MHz_TX

14/11/2020



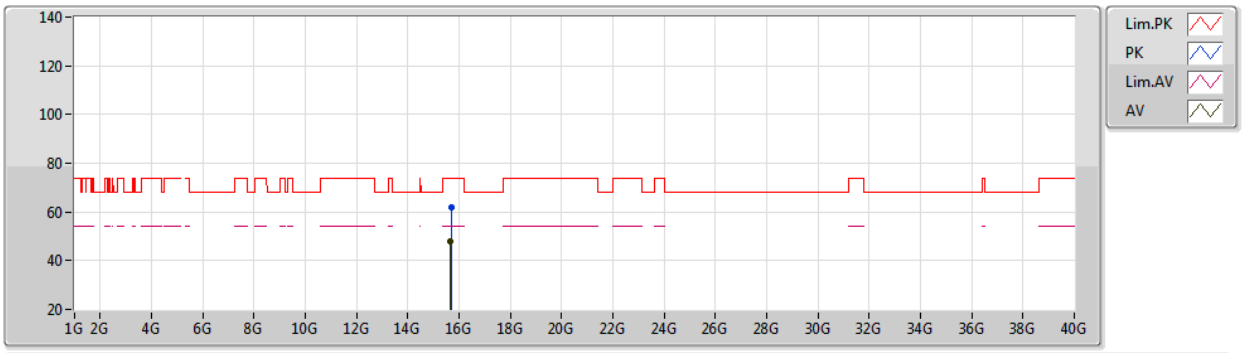

EUT Y_2TX
Setting 18.5
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 4.9244G | 63.18 | 74.00 | -10.82 | 57.69 | 3 | Horizontal | 342 | 1.81 | - | 32.90 | 5.46 | 32.87 |
| AV | 4.9212G | 50.50 | 54.00 | -3.50 | 45.03 | 3 | Horizontal | 342 | 1.81 | - | 32.88 | 5.46 | 32.87 |
| PK | 5.222G | 116.35 | Inf | -Inf | 110.51 | 3 | Horizontal | 342 | 1.81 | - | 32.90 | 5.71 | 32.77 |
| AV | 5.222G | 103.02 | Inf | -Inf | 97.18 | 3 | Horizontal | 342 | 1.81 | - | 32.90 | 5.71 | 32.77 |
| PK | 5.454G | 63.73 | 74.00 | -10.27 | 56.96 | 3 | Horizontal | 342 | 1.81 | - | 33.62 | 5.83 | 32.68 |
| AV | 5.4524G | 51.58 | 54.00 | -2.42 | 44.82 | 3 | Horizontal | 342 | 1.81 | - | 33.61 | 5.83 | 32.68 |
| PK | 5.534G | 67.30 | 68.20 | -0.90 | 60.31 | 3 | Horizontal | 342 | 1.81 | - | 33.80 | 5.87 | 32.68 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5230MHz_TX

14/11/2020



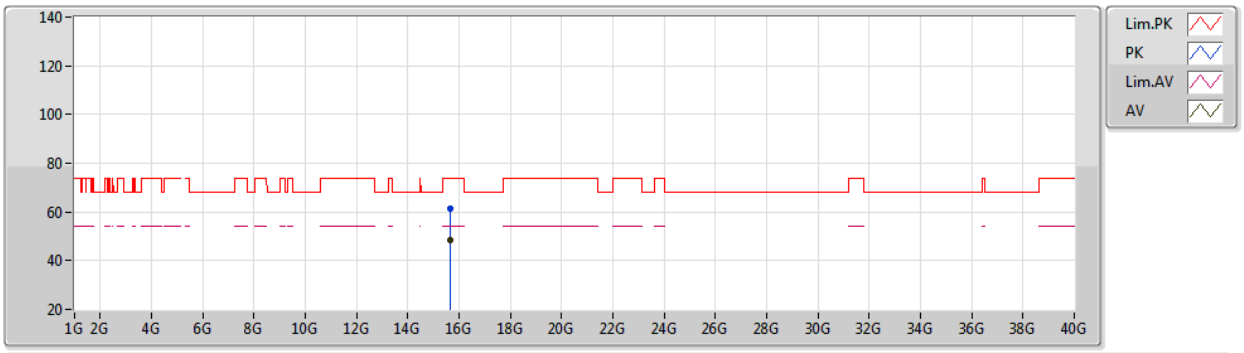

EUT Y_2TX
Setting 18.5
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.6948G | 62.01 | 74.00 | -11.99 | 46.02 | 3 | Vertical | 238 | 1.80 | - | 38.49 | 11.87 | 34.37 |
| AV | 15.6768G | 48.09 | 54.00 | -5.91 | 32.13 | 3 | Vertical | 238 | 1.80 | - | 38.45 | 11.86 | 34.35 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5230MHz_TX

14/11/2020



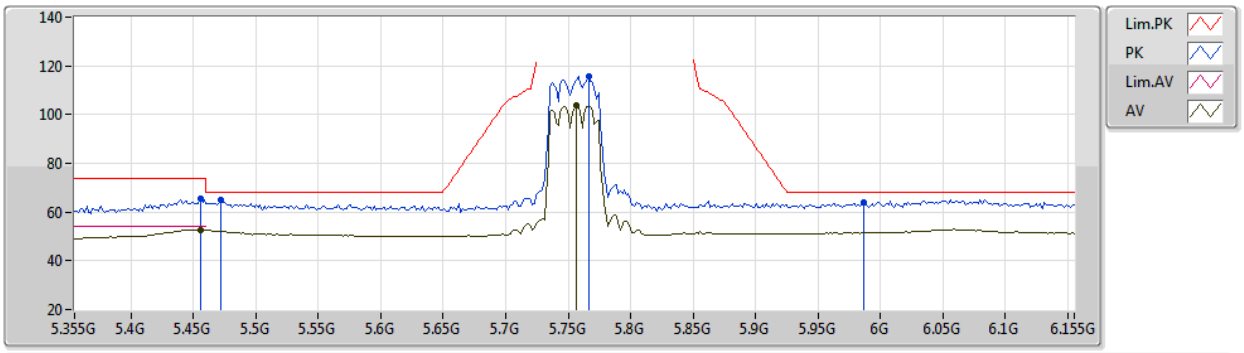

EUT Y_2TX
Setting 18.5
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.6754G | 61.60 | 74.00 | -12.40 | 45.64 | 3 | Horizontal | 58 | 1.80 | - | 38.45 | 11.86 | 34.35 |
| AV | 15.6691G | 48.24 | 54.00 | -5.76 | 32.30 | 3 | Horizontal | 58 | 1.80 | - | 38.44 | 11.85 | 34.35 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5755MHz_TX

14/11/2020



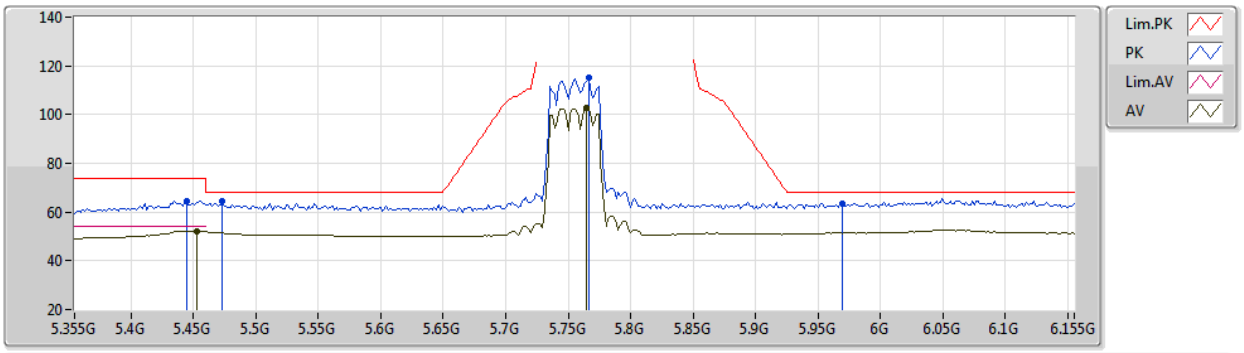

EUT Y_2TX
Setting 18
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.4558G | 65.30 | 74.00 | -8.70 | 58.53 | 3 | Vertical | 346 | 1.74 | - | 33.62 | 5.83 | 32.68 |
| AV | 5.4558G | 52.80 | 54.00 | -1.20 | 46.03 | 3 | Vertical | 346 | 1.74 | - | 33.62 | 5.83 | 32.68 |
| PK | 5.4718G | 64.85 | 68.20 | -3.35 | 58.00 | 3 | Vertical | 346 | 1.74 | - | 33.69 | 5.84 | 32.68 |
| PK | 5.7662G | 115.69 | Inf | -Inf | 108.26 | 3 | Vertical | 346 | 1.74 | - | 34.20 | 5.98 | 32.75 |
| AV | 5.7566G | 103.69 | Inf | -Inf | 96.26 | 3 | Vertical | 346 | 1.74 | - | 34.20 | 5.98 | 32.75 |
| PK | 5.987G | 63.90 | 68.20 | -4.30 | 55.39 | 3 | Vertical | 346 | 1.74 | - | 35.15 | 6.19 | 32.83 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5755MHz_TX

14/11/2020



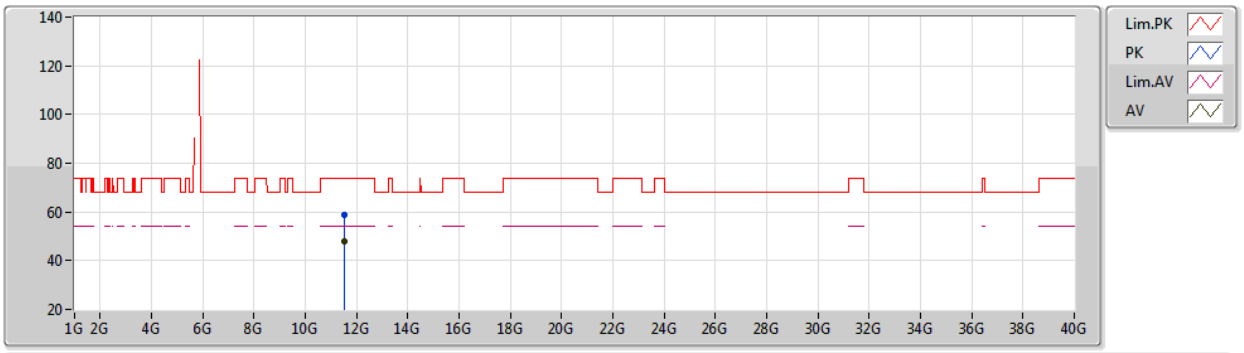

EUT Y_2TX
Setting 18
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.4446G | 64.47 | 74.00 | -9.53 | 57.76 | 3 | Horizontal | 333 | 1.73 | - | 33.58 | 5.82 | 32.69 |
| AV | 5.4526G | 52.26 | 54.00 | -1.74 | 45.50 | 3 | Horizontal | 333 | 1.73 | - | 33.61 | 5.83 | 32.68 |
| PK | 5.4734G | 64.34 | 68.20 | -3.86 | 57.49 | 3 | Horizontal | 333 | 1.73 | - | 33.69 | 5.84 | 32.68 |
| PK | 5.7662G | 115.16 | Inf | -Inf | 107.73 | 3 | Horizontal | 333 | 1.73 | - | 34.20 | 5.98 | 32.75 |
| AV | 5.7646G | 102.82 | Inf | -Inf | 95.39 | 3 | Horizontal | 333 | 1.73 | - | 34.20 | 5.98 | 32.75 |
| PK | 5.9694G | 63.62 | 68.20 | -4.58 | 55.19 | 3 | Horizontal | 333 | 1.73 | - | 35.08 | 6.17 | 32.82 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5755MHz_TX

14/11/2020



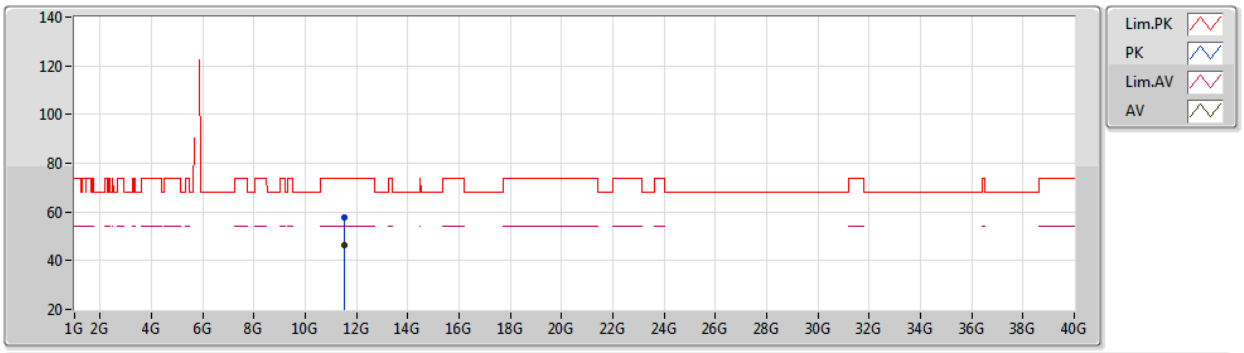

EUT Y_2TX
Setting 18
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.51G | 58.73 | 74.00 | -15.27 | 44.27 | 3 | Vertical | 315 | 2.03 | - | 39.19 | 9.36 | 34.09 |
| AV | 11.5099G | 47.90 | 54.00 | -6.10 | 33.45 | 3 | Vertical | 315 | 2.03 | - | 39.19 | 9.35 | 34.09 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5755MHz_TX

14/11/2020



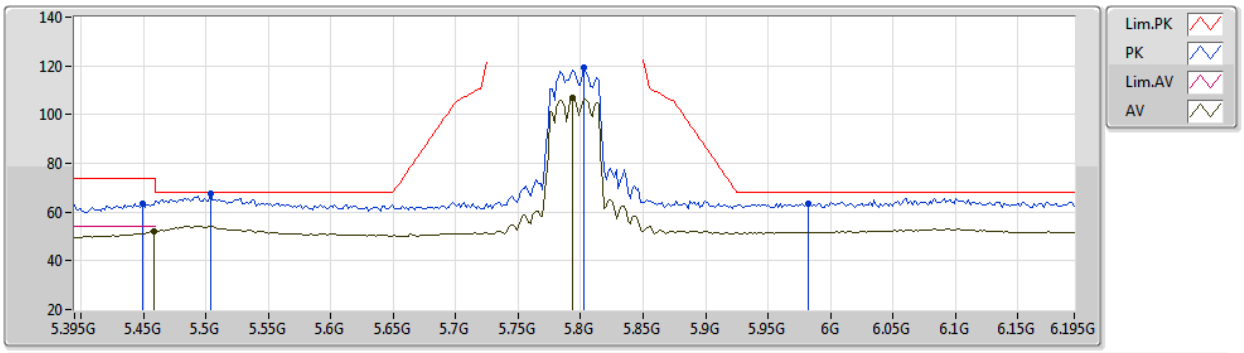

EUT Y_2TX
Setting 18
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.51018G | 57.96 | 74.00 | -16.04 | 43.50 | 3 | Horizontal | 291 | 1.94 | - | 39.19 | 9.36 | 34.09 |
| AV | 11.50994G | 46.31 | 54.00 | -7.69 | 31.86 | 3 | Horizontal | 291 | 1.94 | - | 39.19 | 9.35 | 34.09 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5795MHz_TX

14/11/2020



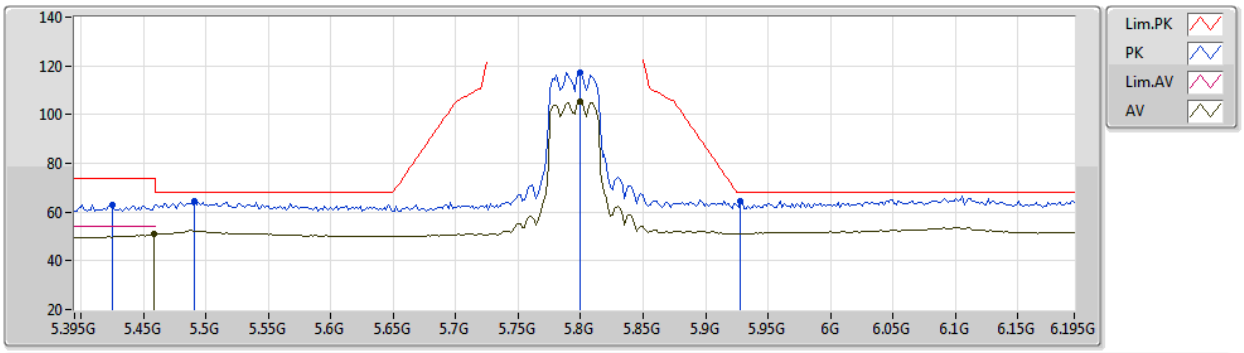

EUT Y_2TX
Setting 20.5
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.4494G | 63.45 | 74.00 | -10.55 | 56.72 | 3 | Vertical | 340 | 1.75 | - | 33.60 | 5.82 | 32.69 |
| AV | 5.459G | 51.85 | 54.00 | -2.15 | 45.06 | 3 | Vertical | 340 | 1.75 | - | 33.64 | 5.83 | 32.68 |
| PK | 5.5038G | 67.79 | 68.20 | -0.41 | 60.81 | 3 | Vertical | 340 | 1.75 | - | 33.80 | 5.85 | 32.67 |
| PK | 5.803G | 119.25 | Inf | -Inf | 111.79 | 3 | Vertical | 340 | 1.75 | - | 34.22 | 6.00 | 32.76 |
| AV | 5.7934G | 106.72 | Inf | -Inf | 99.28 | 3 | Vertical | 340 | 1.75 | - | 34.20 | 6.00 | 32.76 |
| PK | 5.9822G | 63.43 | 68.20 | -4.77 | 54.94 | 3 | Vertical | 340 | 1.75 | - | 35.13 | 6.18 | 32.82 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5795MHz_TX

14/11/2020



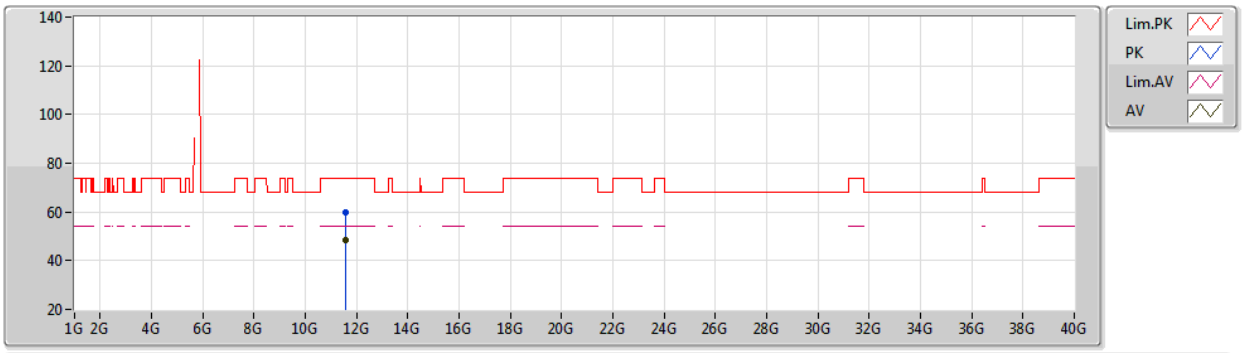

EUT Y_2TX
Setting 20.5
04-D-J-4-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.4254G | 63.14 | 74.00 | -10.86 | 56.52 | 3 | Horizontal | 310 | 1.77 | - | 33.50 | 5.81 | 32.69 |
| AV | 5.459G | 50.83 | 54.00 | -3.17 | 44.04 | 3 | Horizontal | 310 | 1.77 | - | 33.64 | 5.83 | 32.68 |
| PK | 5.491G | 64.65 | 68.20 | -3.55 | 57.71 | 3 | Horizontal | 310 | 1.77 | - | 33.76 | 5.85 | 32.67 |
| PK | 5.7998G | 117.37 | Inf | -Inf | 109.93 | 3 | Horizontal | 310 | 1.77 | - | 34.20 | 6.00 | 32.76 |
| AV | 5.7998G | 105.52 | Inf | -Inf | 98.08 | 3 | Horizontal | 310 | 1.77 | - | 34.20 | 6.00 | 32.76 |
| PK | 5.9278G | 64.61 | 68.20 | -3.59 | 56.38 | 3 | Horizontal | 310 | 1.77 | - | 34.91 | 6.13 | 32.81 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5795MHz_TX

14/11/2020



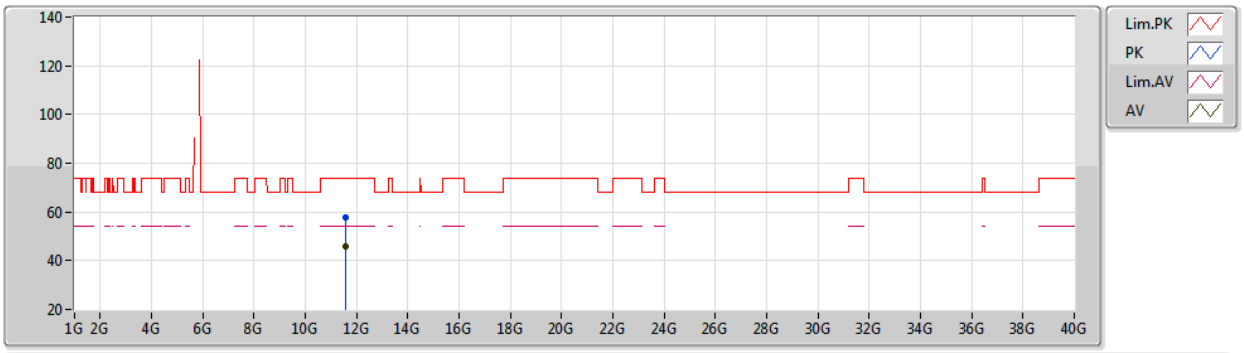

EUT Y_2TX
Setting 20.5
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.5934G | 59.74 | 74.00 | -14.26 | 45.37 | 3 | Vertical | 316 | 2.04 | - | 39.11 | 9.40 | 34.14 |
| AV | 11.5899G | 48.55 | 54.00 | -5.45 | 34.18 | 3 | Vertical | 316 | 2.04 | - | 39.11 | 9.39 | 34.13 |

## 802.11ax HEW40_Nss1,(MCS0)_2TX

## 5795MHz_TX

14/11/2020



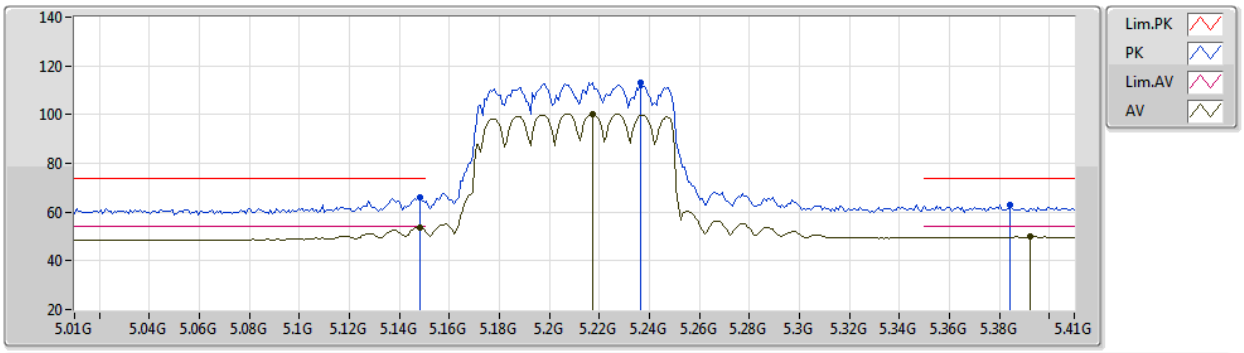

EUT Y_2TX
Setting 20.5
04-D-J-4

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.5903G | 57.89 | 74.00 | -16.11 | 43.51 | 3 | Horizontal | 102 | 1.86 | - | 39.11 | 9.40 | 34.13 |
| AV | 11.5899G | 45.96 | 54.00 | -8.04 | 31.59 | 3 | Horizontal | 102 | 1.86 | - | 39.11 | 9.39 | 34.13 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5210MHz_TX

14/11/2020



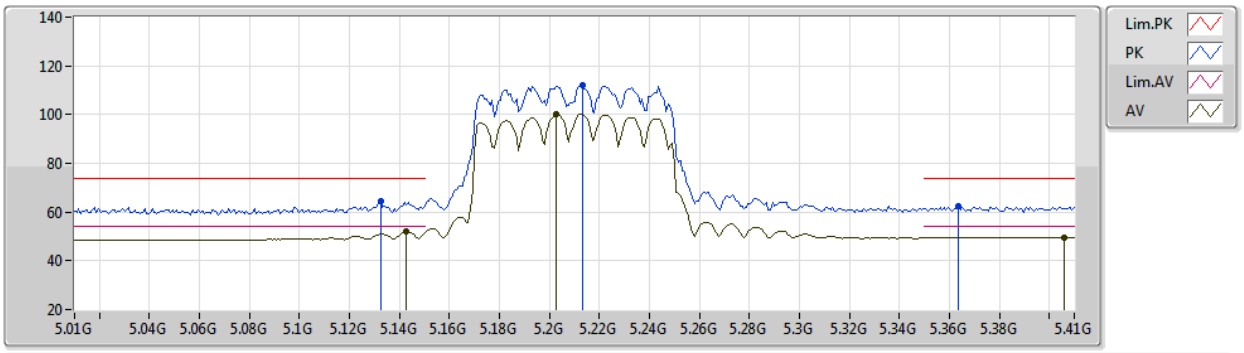

EUT Y_2TX
Setting 18
04-D-J-7-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1484G | 66.05 | 74.00 | -7.95 | 60.40 | 3 | Vertical | 360 | 1.80 | - | 32.80 | 5.65 | 32.80 |
| AV | 5.1484G | 53.75 | 54.00 | -0.25 | 48.10 | 3 | Vertical | 360 | 1.80 | - | 32.80 | 5.65 | 32.80 |
| PK | 5.2364G | 113.26 | Inf | -Inf | 107.41 | 3 | Vertical | 360 | 1.80 | - | 32.90 | 5.72 | 32.77 |
| AV | 5.2172G | 100.32 | Inf | -Inf | 94.48 | 3 | Vertical | 360 | 1.80 | - | 32.90 | 5.71 | 32.77 |
| PK | 5.3844G | 62.88 | 74.00 | -11.12 | 56.52 | 3 | Vertical | 360 | 1.80 | - | 33.28 | 5.79 | 32.71 |
| AV | 5.3924G | 49.89 | 54.00 | -4.11 | 43.45 | 3 | Vertical | 360 | 1.80 | - | 33.34 | 5.80 | 32.70 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5210MHz_TX

14/11/2020



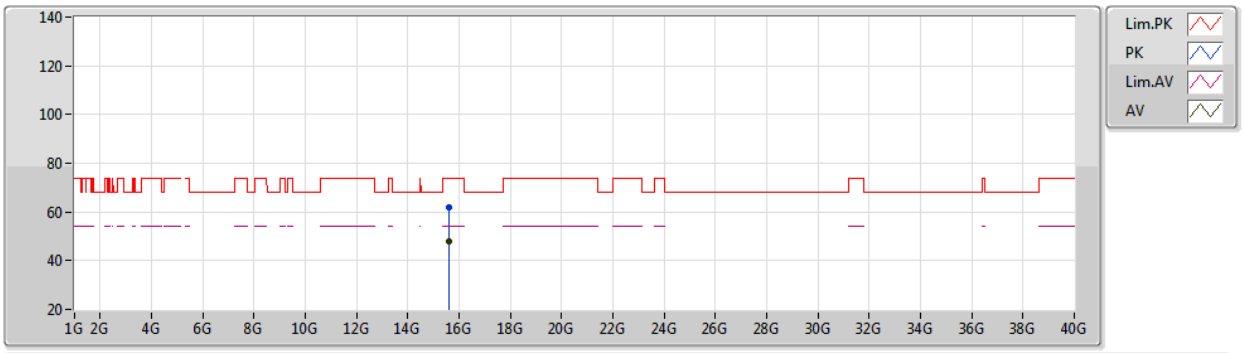

EUT Y_2TX
Setting 18
04-D-J-7-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1324G | 64.51 | 74.00 | -9.49 | 58.88 | 3 | Horizontal | 342 | 1.81 | - | 32.80 | 5.63 | 32.80 |
| AV | 5.1428G | 52.15 | 54.00 | -1.85 | 46.51 | 3 | Horizontal | 342 | 1.81 | - | 32.80 | 5.64 | 32.80 |
| PK | 5.2132G | 112.19 | Inf | -Inf | 106.35 | 3 | Horizontal | 342 | 1.81 | - | 32.90 | 5.71 | 32.77 |
| AV | 5.2028G | 100.37 | Inf | -Inf | 94.55 | 3 | Horizontal | 342 | 1.81 | - | 32.90 | 5.70 | 32.78 |
| PK | 5.3636G | 62.44 | 74.00 | -11.56 | 56.26 | 3 | Horizontal | 342 | 1.81 | - | 33.11 | 5.78 | 32.71 |
| AV | 5.406G | 49.72 | 54.00 | -4.28 | 43.20 | 3 | Horizontal | 342 | 1.81 | - | 33.42 | 5.80 | 32.70 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5210MHz_TX

14/11/2020



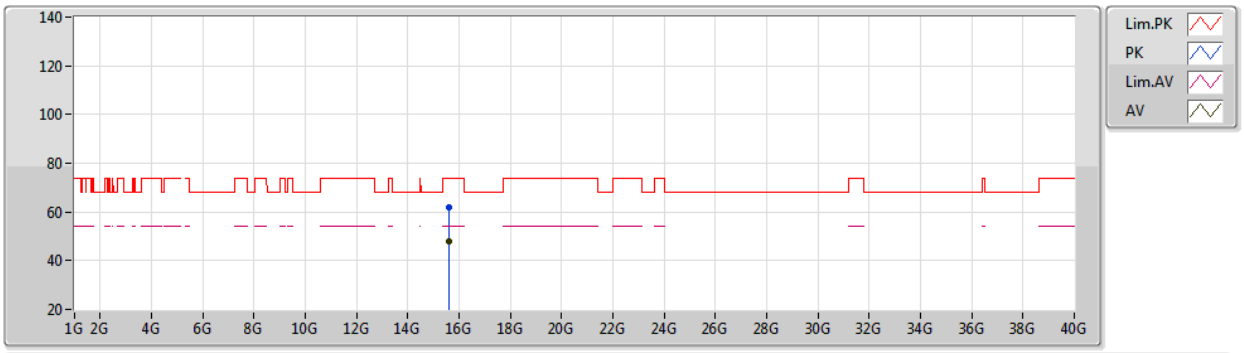

EUT Y_2TX
Setting 18
04-D-J-7

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.6278G | 61.81 | 74.00 | -12.19 | 45.95 | 3 | Vertical | 239 | 1.80 | - | 38.36 | 11.82 | 34.32 |
| AV | 15.62676G | 48.07 | 54.00 | -5.93 | 32.22 | 3 | Vertical | 239 | 1.80 | - | 38.35 | 11.82 | 34.32 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5210MHz_TX

14/11/2020



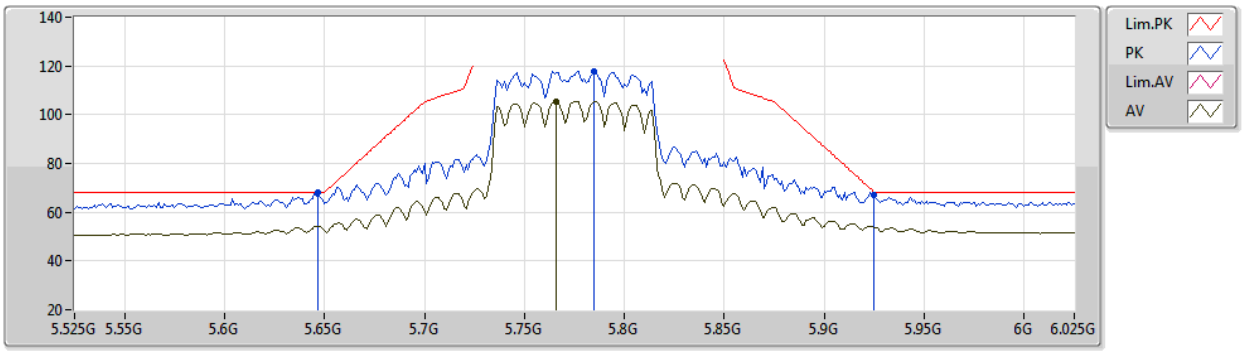

EUT Y_2TX
Setting 18
04-D-J-7

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 15.6297G | 61.86 | 74.00 | -12.14 | 46.00 | 3 | Horizontal | 41 | 2.76 | - | 38.36 | 11.82 | 34.32 |
| AV | 15.62942G | 48.00 | 54.00 | -6.00 | 32.14 | 3 | Horizontal | 41 | 2.76 | - | 38.36 | 11.82 | 34.32 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5775MHz_TX

14/11/2020



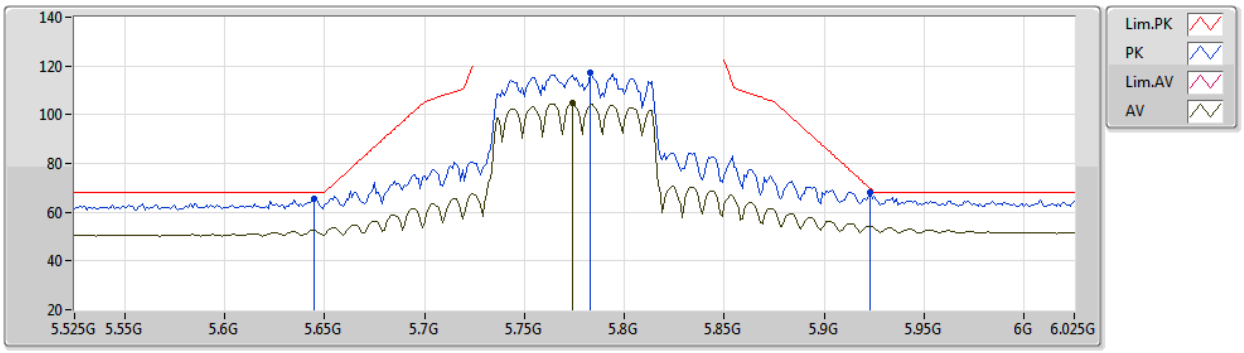

EUT Y_2TX
Setting 22.5
04-D-J-7-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.647G | 68.18 | 68.20 | -0.02 | 61.08 | 3 | Vertical | 9 | 1.93 | - | 33.90 | 5.92 | 32.72 |
| PK | 5.785G | 117.91 | Inf | -Inf | 110.48 | 3 | Vertical | 9 | 1.93 | - | 34.20 | 5.99 | 32.76 |
| AV | 5.766G | 105.55 | Inf | -Inf | 98.12 | 3 | Vertical | 9 | 1.93 | - | 34.20 | 5.98 | 32.75 |
| PK | 5.925G | 66.98 | 68.20 | -1.22 | 58.76 | 3 | Vertical | 9 | 1.93 | - | 34.90 | 6.13 | 32.81 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5775MHz_TX

14/11/2020



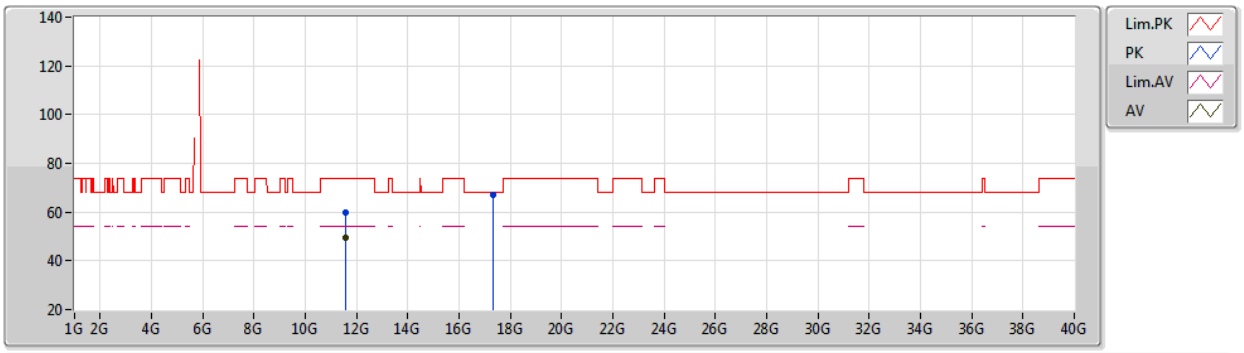

EUT Y_2TX
Setting 22.5
04-D-J-7-13

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.645G | 65.73 | 68.20 | -2.47 | 58.63 | 3 | Horizontal | 335 | 1.80 | - | 33.90 | 5.92 | 32.72 |
| PK | 5.783G | 117.38 | Inf | -Inf | 109.95 | 3 | Horizontal | 335 | 1.80 | - | 34.20 | 5.99 | 32.76 |
| AV | 5.774G | 104.75 | Inf | -Inf | 97.31 | 3 | Horizontal | 335 | 1.80 | - | 34.20 | 5.99 | 32.75 |
| PK | 5.923G | 67.95 | 69.68 | -1.73 | 59.75 | 3 | Horizontal | 335 | 1.80 | - | 34.89 | 6.12 | 32.81 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5775MHz_TX

14/11/2020



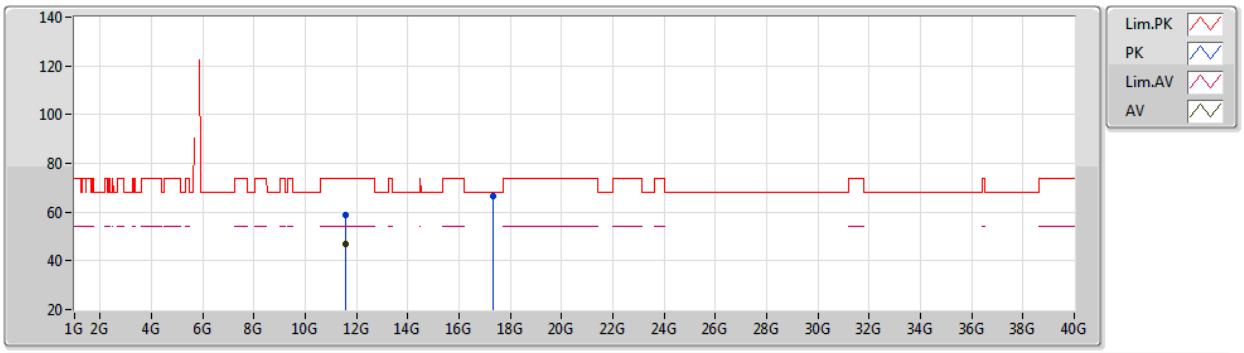

EUT Y_2TX
Setting 22.5
04-D-J-7

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.55002G | 59.95 | 74.00 | -14.05 | 45.53 | 3 | Vertical | 315 | 2.25 | - | 39.15 | 9.38 | 34.11 |
| AV | 11.55004G | 49.33 | 54.00 | -4.67 | 34.91 | 3 | Vertical | 315 | 2.25 | - | 39.15 | 9.38 | 34.11 |
| PK | 17.32506G | 66.95 | 68.20 | -1.25 | 46.60 | 3 | Vertical | 30 | 2.98 | - | 41.68 | 13.16 | 34.49 |

## 802.11ax HEW80_Nss1,(MCS0)_2TX

## 5775MHz_TX

14/11/2020




EUT Y_2TX
Setting 22.5
04-D-J-7

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.55001G | 58.85 | 74.00 | -15.15 | 44.43 | 3 | Horizontal | 289 | 1.91 | - | 39.15 | 9.38 | 34.11 |
| AV | 11.54997G | 46.84 | 54.00 | -7.16 | 32.43 | 3 | Horizontal | 289 | 1.91 | - | 39.15 | 9.37 | 34.11 |
| PK | 17.3185G | 66.76 | 68.20 | -1.44 | 46.44 | 3 | Horizontal | 122 | 1.80 | - | 41.66 | 13.15 | 34.49 |

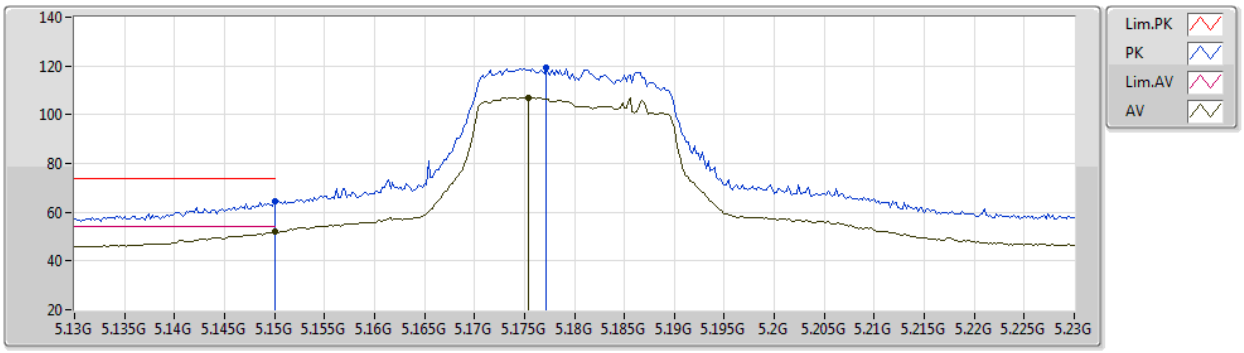
## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.15-5.25GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW80-BF_Nss1,(MCS0)_2TX | Pass | AV | 5.148G | 53.53 | 54.00 | -0.47 | 3 | Vertical | 7 | 1.90 | - |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5180MHz_TX

17/11/2020



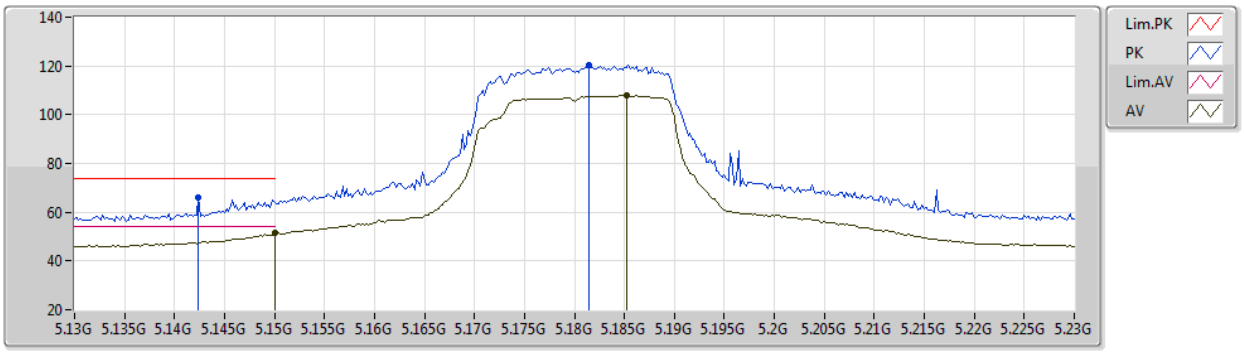

EUT Y_2TX
Setting 26
06-D-S-5-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.15G | 64.48 | 74.00 | -9.52 | 59.31 | 3 | Vertical | 3 | 1.80 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.15G | 51.99 | 54.00 | -2.01 | 46.82 | 3 | Vertical | 3 | 1.80 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.1772G | 119.14 | Inf | -Inf | 114.10 | 3 | Vertical | 3 | 1.80 | - | 31.69 | 5.00 | 31.65 |
| AV | 5.1754G | 107.14 | Inf | -Inf | 102.09 | 3 | Vertical | 3 | 1.80 | - | 31.70 | 5.00 | 31.65 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5180MHz_TX

17/11/2020



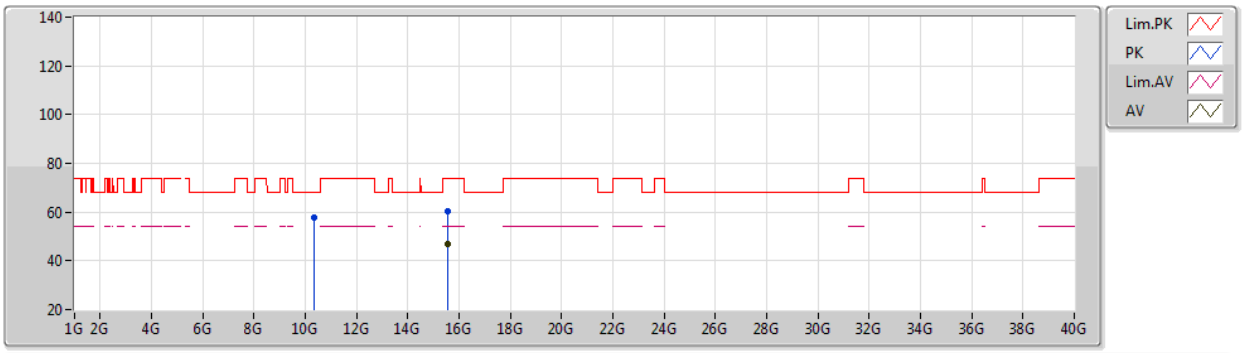

EUT Y_2TX
Setting 26
06-D-S-5-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1424G | 65.95 | 74.00 | -8.05 | 60.78 | 3 | Horizontal | 360 | 2.04 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.15G | 51.46 | 54.00 | -2.54 | 46.29 | 3 | Horizontal | 360 | 2.04 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.1814G | 120.51 | Inf | -Inf | 115.49 | 3 | Horizontal | 360 | 2.04 | - | 31.67 | 5.00 | 31.65 |
| AV | 5.1852G | 107.81 | Inf | -Inf | 102.81 | 3 | Horizontal | 360 | 2.04 | - | 31.66 | 5.00 | 31.66 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5180MHz_TX

17/11/2020



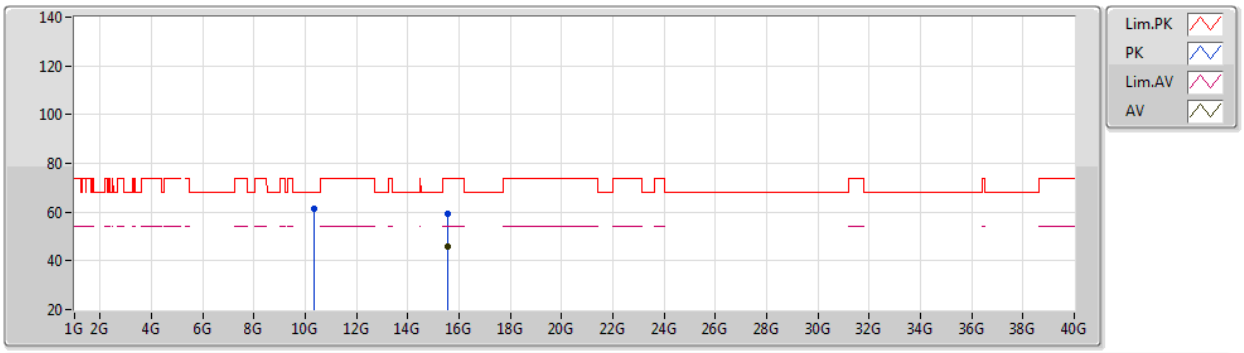

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.3598G | 58.01 | 68.20 | -10.19 | 44.42 | 3 | Vertical | 167 | 1.71 | - | 39.62 | 7.84 | 33.87 |
| PK | 15.54052G | 60.19 | 74.00 | -13.81 | 44.52 | 3 | Vertical | 192 | 1.40 | - | 39.22 | 10.37 | 33.92 |
| AV | 15.53879G | 46.66 | 54.00 | -7.34 | 30.98 | 3 | Vertical | 192 | 1.40 | - | 39.23 | 10.37 | 33.92 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5180MHz_TX

17/11/2020



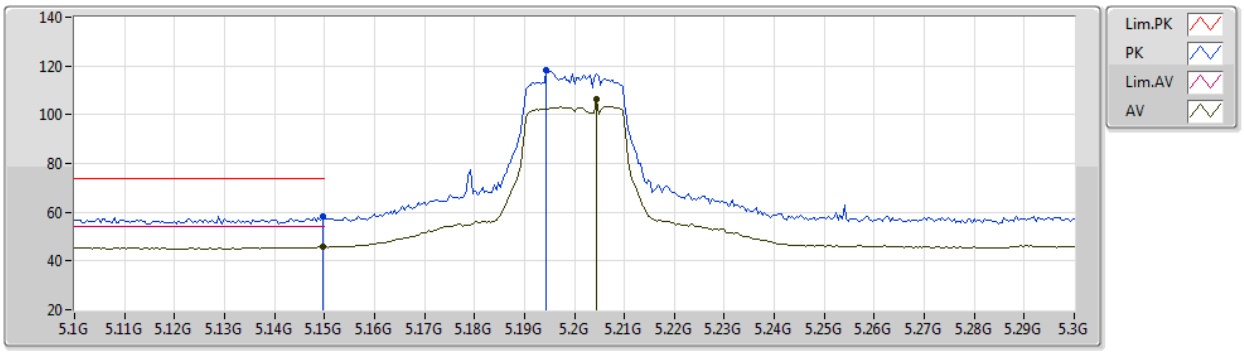

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.3598G | 61.50 | 68.20 | -6.70 | 47.91 | 3 | Horizontal | 178 | 2.31 | - | 39.62 | 7.84 | 33.87 |
| PK | 15.54116G | 59.22 | 74.00 | -14.78 | 43.56 | 3 | Horizontal | 308 | 2.63 | - | 39.21 | 10.37 | 33.92 |
| AV | 15.53898G | 46.11 | 54.00 | -7.89 | 30.43 | 3 | Horizontal | 308 | 2.63 | - | 39.23 | 10.37 | 33.92 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

17/11/2020



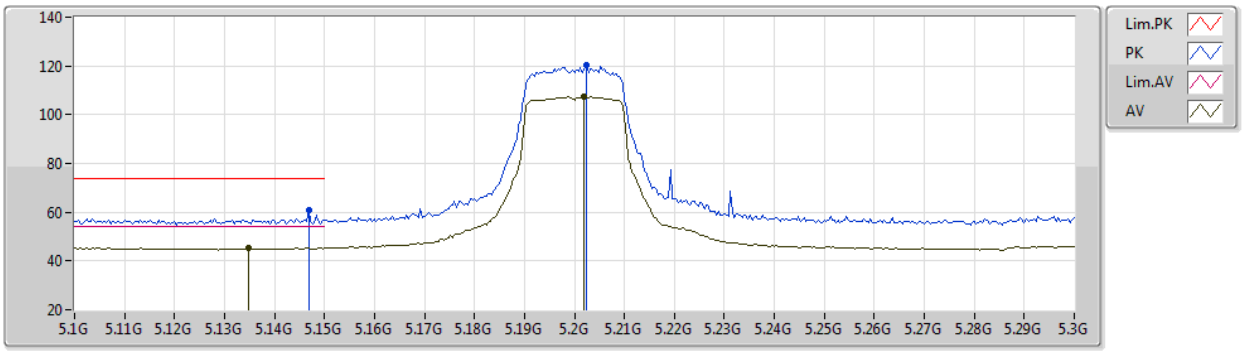

EUT Y_2TX
Setting 26
06-D-S-5-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1496G | 58.16 | 74.00 | -15.84 | 52.99 | 3 | Vertical | 354 | 1.80 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.1496G | 46.01 | 54.00 | -7.99 | 40.84 | 3 | Vertical | 354 | 1.80 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.1944G | 118.52 | Inf | -Inf | 113.56 | 3 | Vertical | 354 | 1.80 | - | 31.62 | 5.00 | 31.66 |
| AV | 5.2044G | 106.56 | Inf | -Inf | 101.66 | 3 | Vertical | 354 | 1.80 | - | 31.57 | 5.00 | 31.67 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

17/11/2020



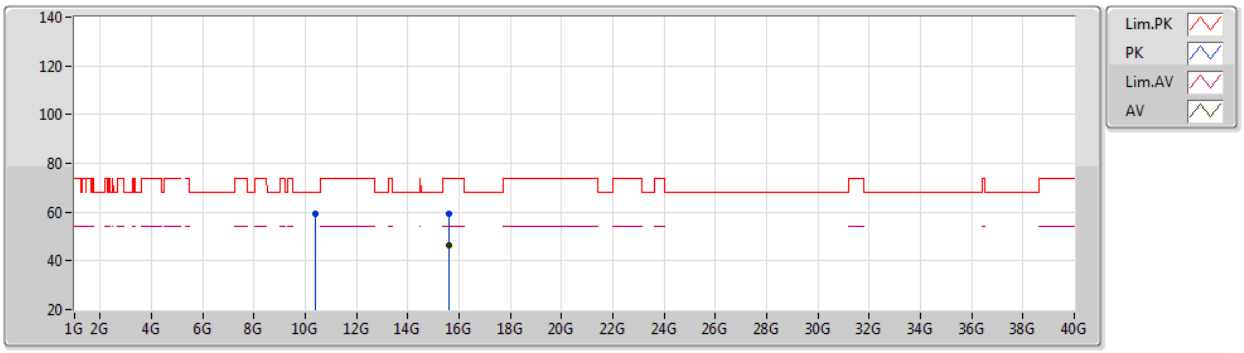

EUT Y_2TX
Setting 26
06-D-S-5-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1468G | 61.09 | 74.00 | -12.91 | 55.92 | 3 | Horizontal | 0 | 2.03 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.1348G | 45.17 | 54.00 | -8.83 | 39.99 | 3 | Horizontal | 0 | 2.03 | - | 31.80 | 5.00 | 31.62 |
| PK | 5.2024G | 120.56 | Inf | -Inf | 115.64 | 3 | Horizontal | 0 | 2.03 | - | 31.59 | 5.00 | 31.67 |
| AV | 5.202G | 107.32 | Inf | -Inf | 102.40 | 3 | Horizontal | 0 | 2.03 | - | 31.59 | 5.00 | 31.67 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

17/11/2020



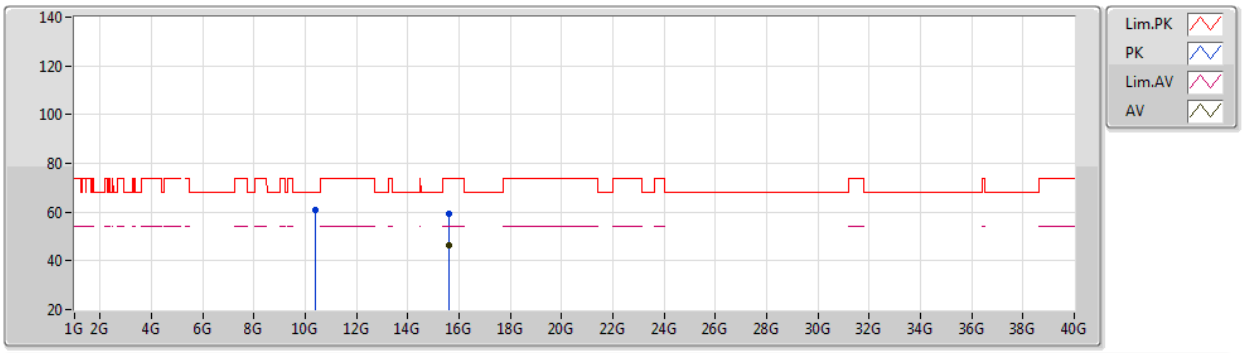

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.40001G | 59.09 | 68.20 | -9.11 | 45.42 | 3 | Vertical | 199 | 1.12 | - | 39.70 | 7.86 | 33.89 |
| PK | 15.59574G | 59.32 | 74.00 | -14.68 | 44.05 | 3 | Vertical | 3 | 1.32 | - | 38.83 | 10.40 | 33.96 |
| AV | 15.5999G | 46.39 | 54.00 | -7.61 | 31.15 | 3 | Vertical | 3 | 1.32 | - | 38.80 | 10.40 | 33.96 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5200MHz_TX

17/11/2020



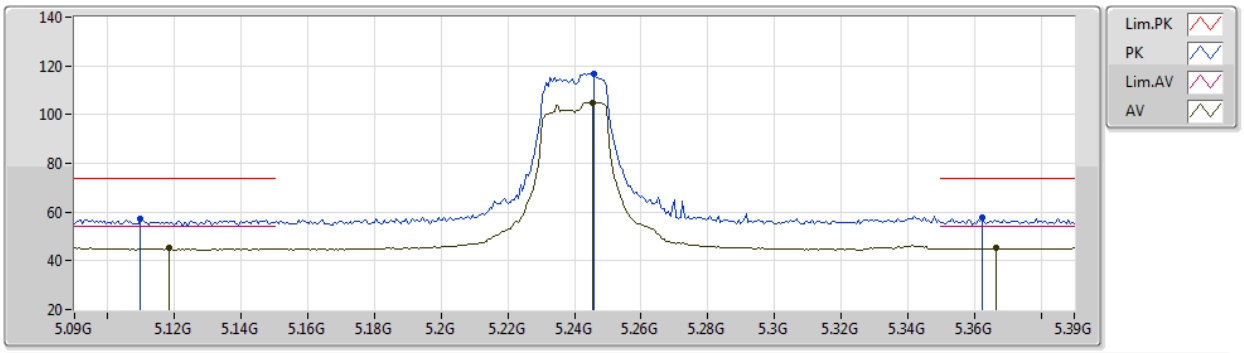

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.39994G | 60.75 | 68.20 | -7.45 | 47.08 | 3 | Horizontal | 122 | 1.48 | - | 39.70 | 7.86 | 33.89 |
| PK | 15.60086G | 59.14 | 74.00 | -14.86 | 43.90 | 3 | Horizontal | 278 | 2.46 | - | 38.80 | 10.40 | 33.96 |
| AV | 15.60174G | 46.29 | 54.00 | -7.71 | 31.05 | 3 | Horizontal | 278 | 2.46 | - | 38.80 | 10.40 | 33.96 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

17/11/2020



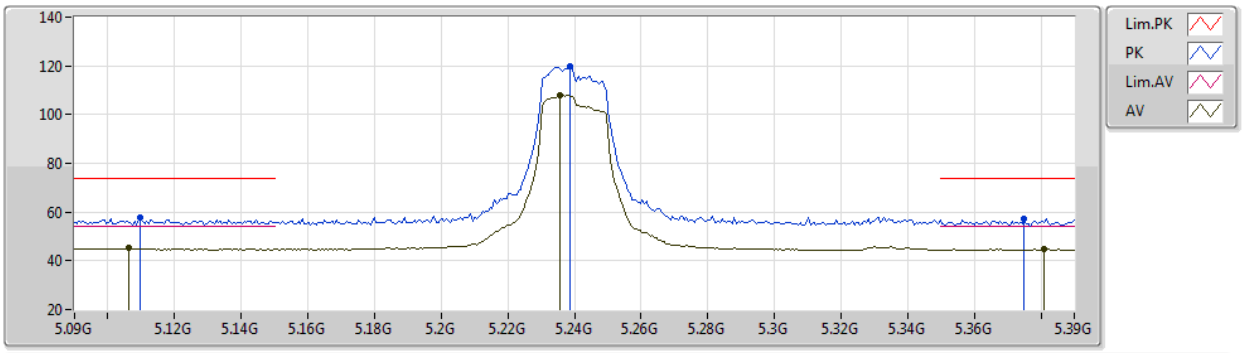

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1098G | 57.40 | 74.00 | -16.60 | 52.20 | 3 | Vertical | 348 | 1.80 | - | 31.80 | 5.00 | 31.60 |
| AV | 5.1182G | 45.11 | 54.00 | -8.89 | 39.92 | 3 | Vertical | 348 | 1.80 | - | 31.80 | 5.00 | 31.61 |
| PK | 5.246G | 116.96 | Inf | -Inf | 112.34 | 3 | Vertical | 348 | 1.80 | - | 31.32 | 5.00 | 31.70 |
| AV | 5.2454G | 105.01 | Inf | -Inf | 100.38 | 3 | Vertical | 348 | 1.80 | - | 31.33 | 5.00 | 31.70 |
| PK | 5.3624G | 57.84 | 74.00 | -16.16 | 53.35 | 3 | Vertical | 348 | 1.80 | - | 31.27 | 5.00 | 31.78 |
| AV | 5.3666G | 45.21 | 54.00 | -8.79 | 40.69 | 3 | Vertical | 348 | 1.80 | - | 31.30 | 5.00 | 31.78 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

17/11/2020



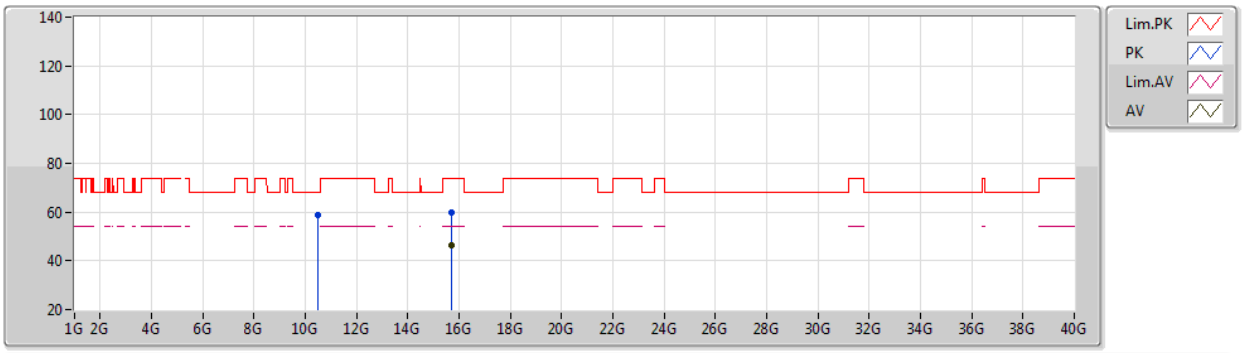

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1098G | 57.85 | 74.00 | -16.15 | 52.65 | 3 | Horizontal | 354 | 1.80 | - | 31.80 | 5.00 | 31.60 |
| AV | 5.1062G | 45.23 | 54.00 | -8.77 | 40.03 | 3 | Horizontal | 354 | 1.80 | - | 31.80 | 5.00 | 31.60 |
| PK | 5.2388G | 119.69 | Inf | -Inf | 115.01 | 3 | Horizontal | 354 | 1.80 | - | 31.37 | 5.00 | 31.69 |
| AV | 5.2358G | 107.88 | Inf | -Inf | 103.18 | 3 | Horizontal | 354 | 1.80 | - | 31.39 | 5.00 | 31.69 |
| PK | 5.375G | 57.25 | 74.00 | -16.75 | 52.69 | 3 | Horizontal | 354 | 1.80 | - | 31.35 | 5.00 | 31.79 |
| AV | 5.381G | 44.71 | 54.00 | -9.29 | 40.11 | 3 | Horizontal | 354 | 1.80 | - | 31.39 | 5.00 | 31.79 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

17/11/2020



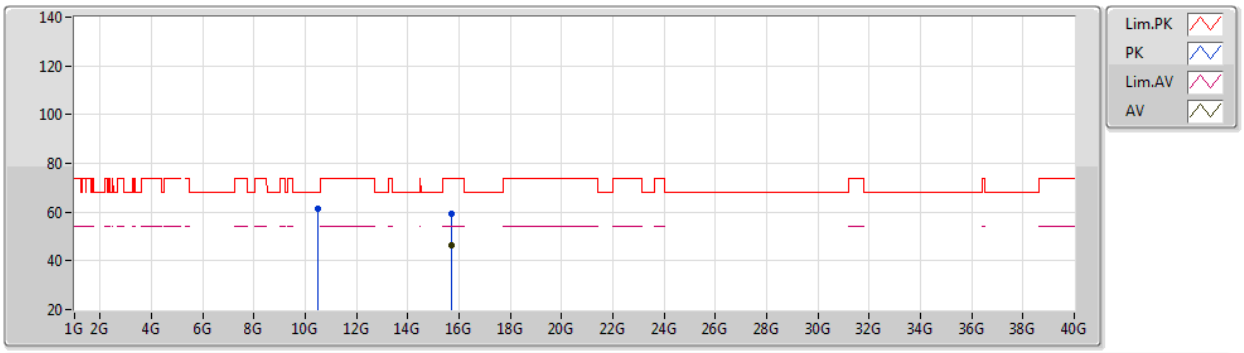

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.47993G | 58.69 | 68.20 | -9.51 | 44.87 | 3 | Vertical | 168 | 1.64 | - | 39.86 | 7.89 | 33.93 |
| PK | 15.71881G | 59.93 | 74.00 | -14.07 | 44.71 | 3 | Vertical | 151 | 2.97 | - | 38.81 | 10.46 | 34.05 |
| AV | 15.72248G | 46.36 | 54.00 | -7.64 | 31.16 | 3 | Vertical | 151 | 2.97 | - | 38.79 | 10.46 | 34.05 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5240MHz_TX

17/11/2020



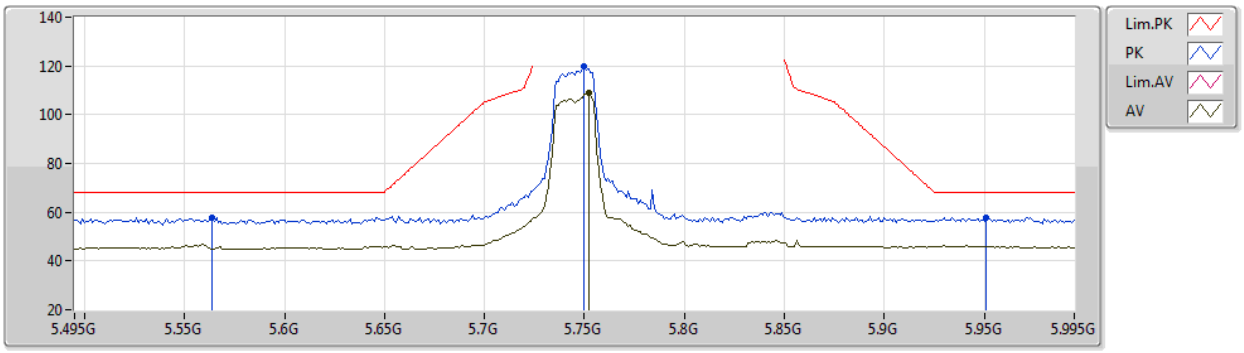

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.47982G | 61.32 | 68.20 | -6.88 | 47.50 | 3 | Horizontal | 178 | 2.34 | - | 39.86 | 7.89 | 33.93 |
| PK | 15.71518G | 59.37 | 74.00 | -14.63 | 44.13 | 3 | Horizontal | 107 | 2.59 | - | 38.82 | 10.46 | 34.04 |
| AV | 15.72242G | 46.51 | 54.00 | -7.49 | 31.31 | 3 | Horizontal | 107 | 2.59 | - | 38.79 | 10.46 | 34.05 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

17/11/2020



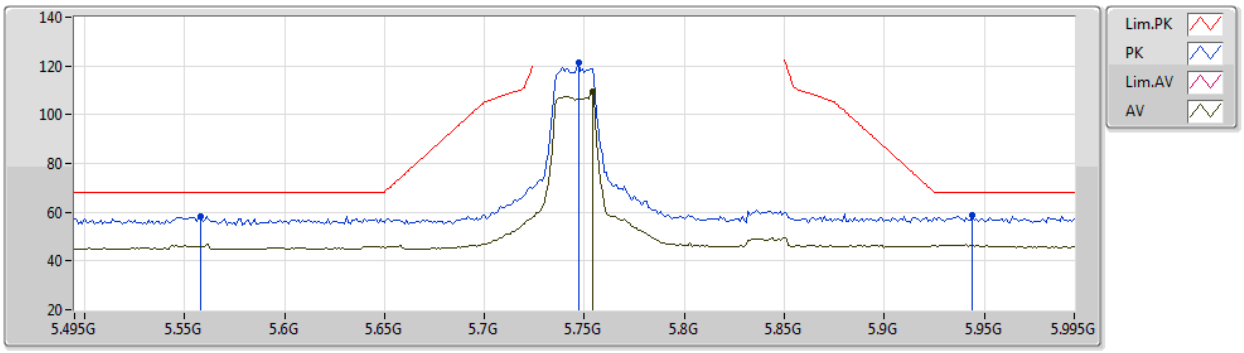

EUT Y_2TX
Setting 26
06-D-S-5-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.564G | 57.94 | 68.20 | -10.26 | 53.12 | 3 | Vertical | 8 | 1.84 | - | 31.50 | 5.16 | 31.84 |
| PK | 5.75G | 119.63 | Inf | -Inf | 114.20 | 3 | Vertical | 8 | 1.84 | - | 31.90 | 5.28 | 31.75 |
| AV | 5.752G | 108.80 | Inf | -Inf | 103.37 | 3 | Vertical | 8 | 1.84 | - | 31.90 | 5.28 | 31.75 |
| PK | 5.951G | 57.91 | 68.20 | -10.29 | 51.81 | 3 | Vertical | 8 | 1.84 | - | 32.30 | 5.45 | 31.65 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

17/11/2020



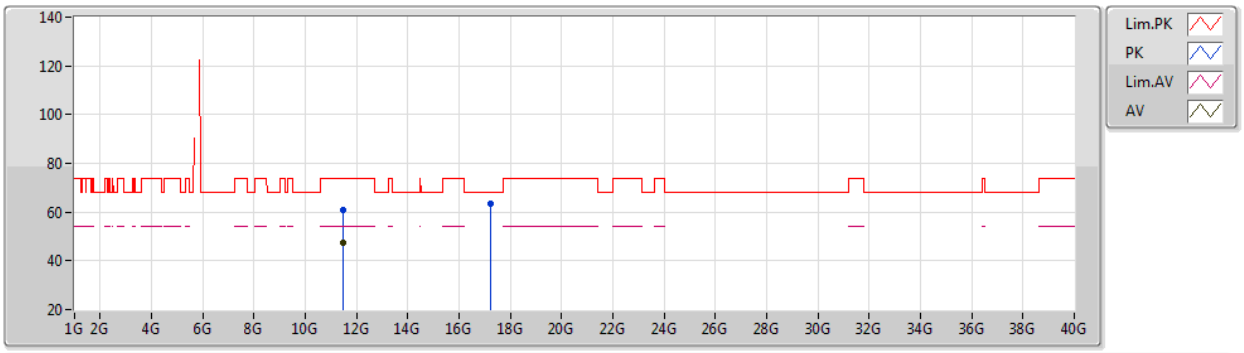

EUT Y_2TX
Setting 26
06-D-S-5-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.558G | 58.36 | 68.20 | -9.84 | 53.54 | 3 | Horizontal | 336 | 1.65 | - | 31.50 | 5.16 | 31.84 |
| PK | 5.747G | 121.26 | Inf | -Inf | 115.85 | 3 | Horizontal | 336 | 1.65 | - | 31.89 | 5.27 | 31.75 |
| AV | 5.754G | 109.69 | Inf | -Inf | 104.25 | 3 | Horizontal | 336 | 1.65 | - | 31.91 | 5.28 | 31.75 |
| PK | 5.944G | 58.74 | 68.20 | -9.46 | 52.66 | 3 | Horizontal | 336 | 1.65 | - | 32.30 | 5.44 | 31.66 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

17/11/2020



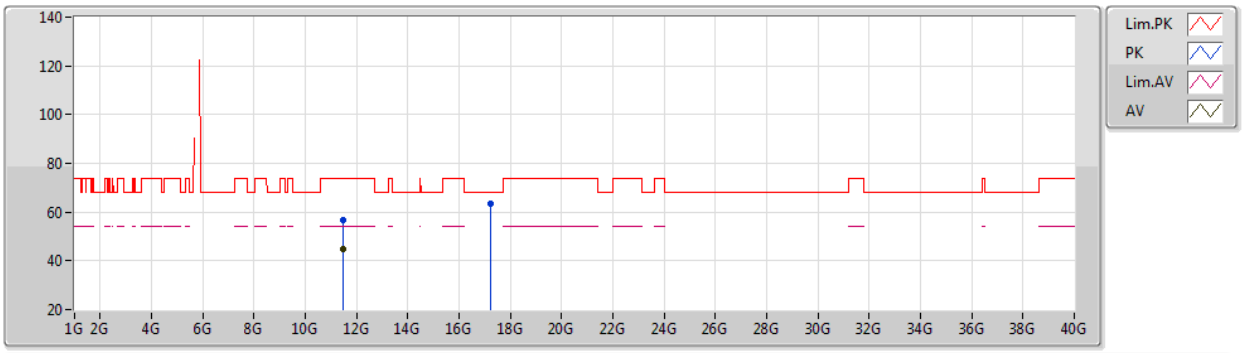

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.4902G | 60.87 | 74.00 | -13.13 | 46.80 | 3 | Vertical | 314 | 1.63 | - | 39.98 | 8.30 | 34.21 |
| AV | 11.484G | 47.58 | 54.00 | -6.42 | 33.53 | 3 | Vertical | 314 | 1.63 | - | 39.97 | 8.29 | 34.21 |
| PK | 17.23456G | 63.26 | 68.20 | -4.94 | 45.11 | 3 | Vertical | 51 | 1.98 | - | 40.94 | 11.46 | 34.25 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5745MHz_TX

17/11/2020



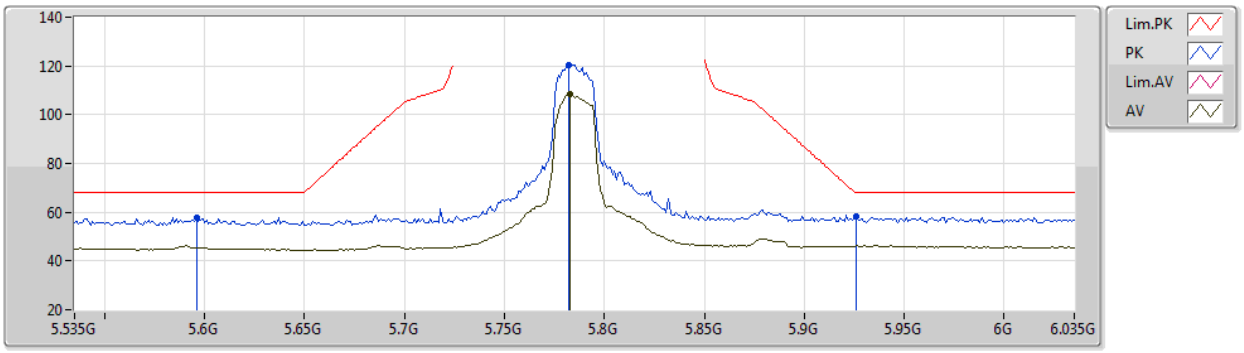

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.4899G | 56.49 | 74.00 | -17.51 | 42.42 | 3 | Horizontal | 251 | 1.78 | - | 39.98 | 8.30 | 34.21 |
| AV | 11.4901G | 44.82 | 54.00 | -9.18 | 30.75 | 3 | Horizontal | 251 | 1.78 | - | 39.98 | 8.30 | 34.21 |
| PK | 17.2333G | 63.42 | 68.20 | -4.78 | 45.29 | 3 | Horizontal | 156 | 1.80 | - | 40.93 | 11.46 | 34.26 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

17/11/2020



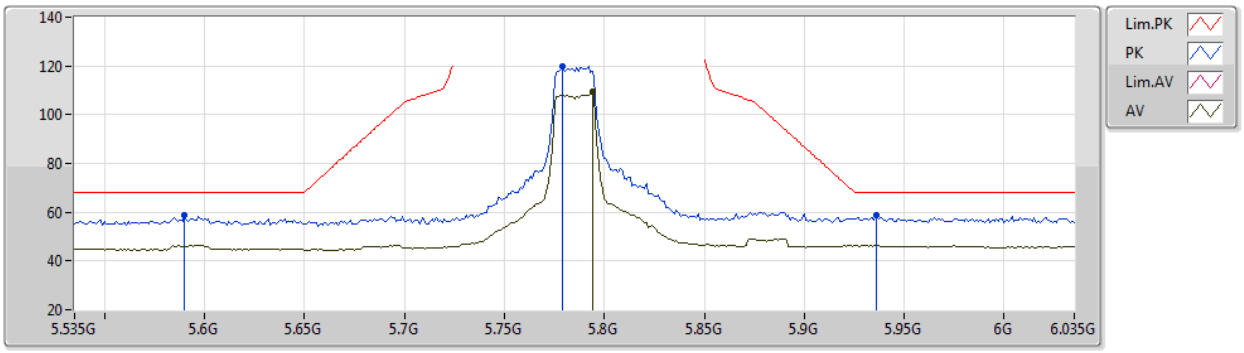

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.596G | 57.98 | 68.20 | -10.22 | 53.10 | 3 | Vertical | 353 | 1.80 | - | 31.50 | 5.20 | 31.82 |
| PK | 5.782G | 120.43 | Inf | -Inf | 114.91 | 3 | Vertical | 353 | 1.80 | - | 31.96 | 5.29 | 31.73 |
| AV | 5.783G | 108.48 | Inf | -Inf | 102.95 | 3 | Vertical | 353 | 1.80 | - | 31.97 | 5.29 | 31.73 |
| PK | 5.926G | 58.19 | 68.20 | -10.01 | 52.13 | 3 | Vertical | 353 | 1.80 | - | 32.30 | 5.43 | 31.67 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

17/11/2020



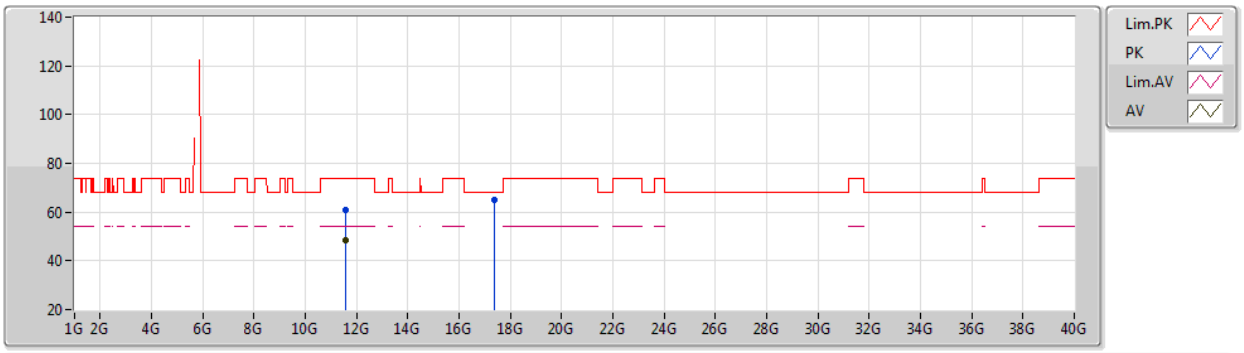

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.59G | 58.62 | 68.20 | -9.58 | 53.76 | 3 | Horizontal | 337 | 1.63 | - | 31.50 | 5.19 | 31.83 |
| PK | 5.779G | 119.83 | Inf | -Inf | 114.32 | 3 | Horizontal | 337 | 1.63 | - | 31.96 | 5.29 | 31.74 |
| AV | 5.794G | 109.45 | Inf | -Inf | 103.89 | 3 | Horizontal | 337 | 1.63 | - | 31.99 | 5.30 | 31.73 |
| PK | 5.936G | 58.54 | 68.20 | -9.66 | 52.46 | 3 | Horizontal | 337 | 1.63 | - | 32.30 | 5.44 | 31.66 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

17/11/2020



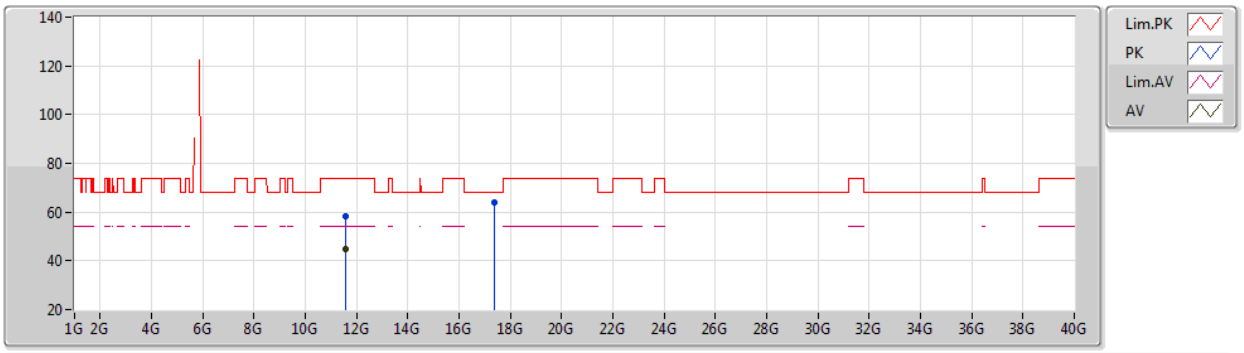

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.57202G | 61.07 | 74.00 | -12.93 | 47.23 | 3 | Vertical | 315 | 2.06 | - | 39.71 | 8.33 | 34.20 |
| AV | 11.57G | 48.60 | 54.00 | -5.40 | 34.75 | 3 | Vertical | 315 | 2.06 | - | 39.72 | 8.33 | 34.20 |
| PK | 17.357G | 65.01 | 68.20 | -3.19 | 45.97 | 3 | Vertical | 19 | 1.42 | - | 41.71 | 11.55 | 34.22 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5785MHz_TX

17/11/2020



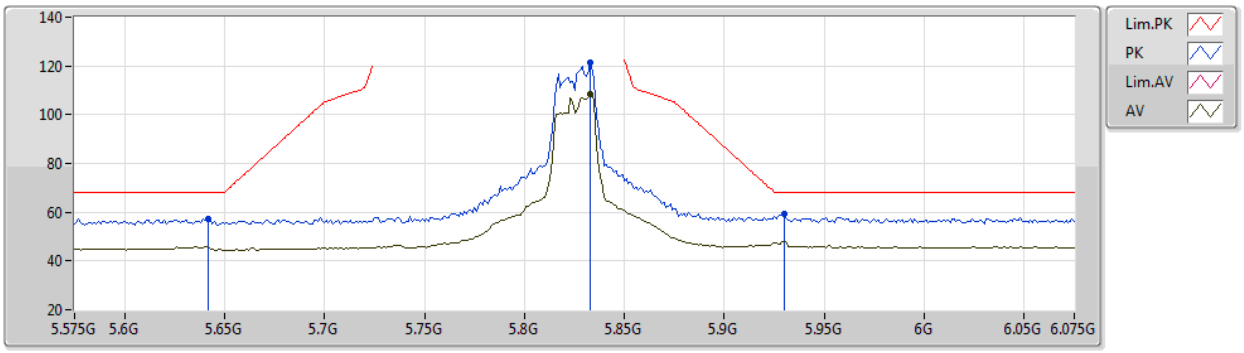

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.5792G | 58.07 | 74.00 | -15.93 | 44.26 | 3 | Horizontal | 52 | 2.97 | - | 39.68 | 8.33 | 34.20 |
| AV | 11.5698G | 44.91 | 54.00 | -9.09 | 31.06 | 3 | Horizontal | 52 | 2.97 | - | 39.72 | 8.33 | 34.20 |
| PK | 17.3571G | 64.16 | 68.20 | -4.04 | 45.12 | 3 | Horizontal | 89 | 1.80 | - | 41.71 | 11.55 | 34.22 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

17/11/2020



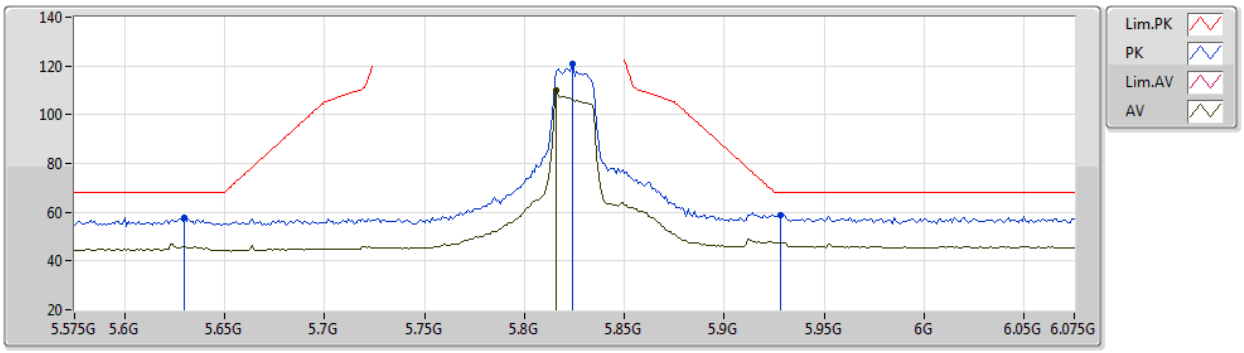

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.642G | 57.31 | 68.20 | -10.89 | 52.39 | 3 | Vertical | 9 | 1.93 | - | 31.50 | 5.22 | 31.80 |
| PK | 5.833G | 121.21 | Inf | -Inf | 115.46 | 3 | Vertical | 9 | 1.93 | - | 32.13 | 5.33 | 31.71 |
| AV | 5.833G | 108.35 | Inf | -Inf | 102.60 | 3 | Vertical | 9 | 1.93 | - | 32.13 | 5.33 | 31.71 |
| PK | 5.93G | 59.14 | 68.20 | -9.06 | 53.07 | 3 | Vertical | 9 | 1.93 | - | 32.30 | 5.43 | 31.66 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

17/11/2020



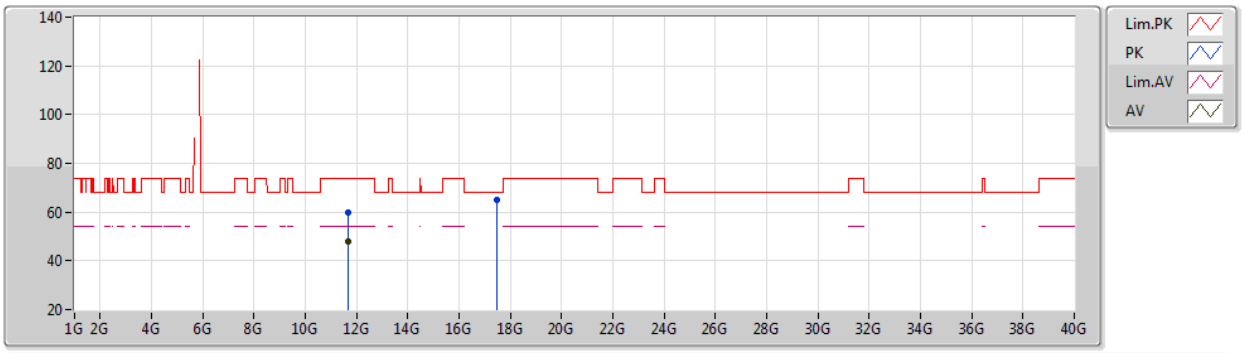

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.63G | 57.73 | 68.20 | -10.47 | 52.83 | 3 | Horizontal | 346 | 1.46 | - | 31.50 | 5.21 | 31.81 |
| PK | 5.824G | 120.61 | Inf | -Inf | 114.90 | 3 | Horizontal | 346 | 1.46 | - | 32.10 | 5.32 | 31.71 |
| AV | 5.816G | 110.05 | Inf | -Inf | 104.39 | 3 | Horizontal | 346 | 1.46 | - | 32.06 | 5.32 | 31.72 |
| PK | 5.928G | 58.73 | 68.20 | -9.47 | 52.66 | 3 | Horizontal | 346 | 1.46 | - | 32.30 | 5.43 | 31.66 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

17/11/2020



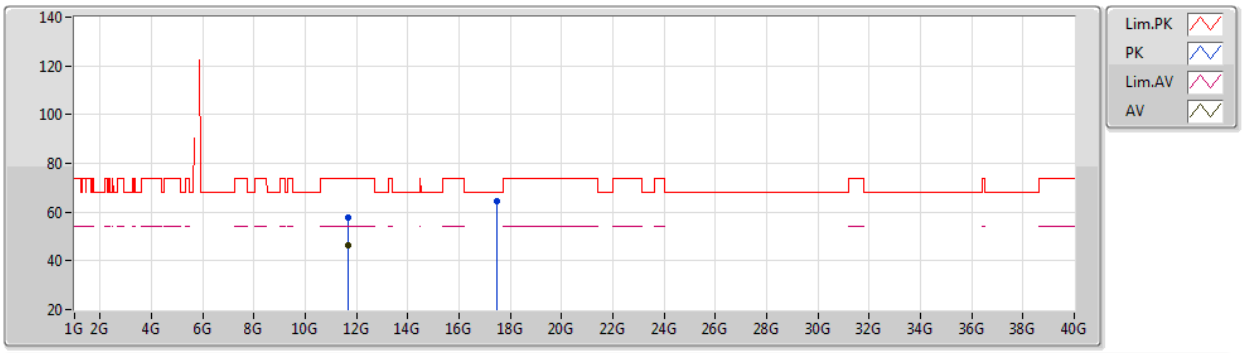

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.64756G | 59.83 | 74.00 | -14.17 | 46.36 | 3 | Vertical | 316 | 2.02 | - | 39.31 | 8.36 | 34.20 |
| AV | 11.65012G | 47.97 | 54.00 | -6.03 | 34.51 | 3 | Vertical | 316 | 2.02 | - | 39.30 | 8.36 | 34.20 |
| PK | 17.4753G | 64.90 | 68.20 | -3.30 | 45.12 | 3 | Vertical | 150 | 1.80 | - | 42.33 | 11.63 | 34.18 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_2TX

## 5825MHz_TX

17/11/2020



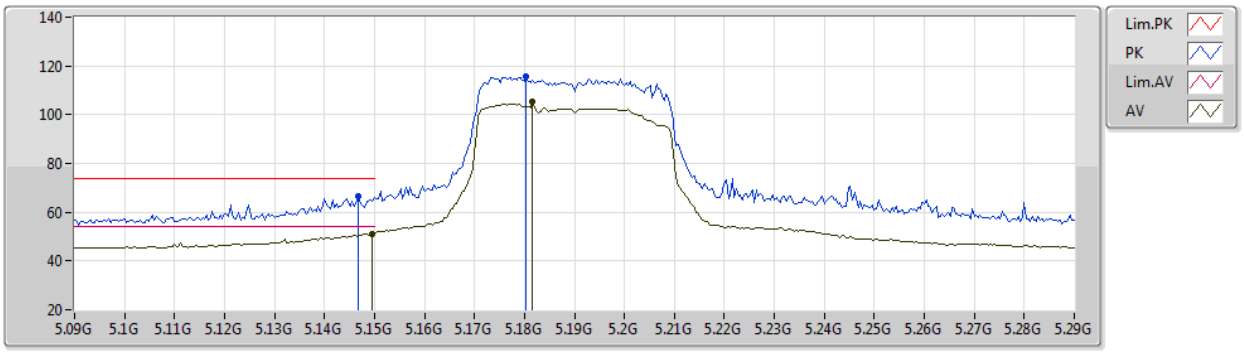

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.65108G | 57.87 | 74.00 | -16.13 | 44.42 | 3 | Horizontal | 49 | 2.72 | - | 39.29 | 8.36 | 34.20 |
| AV | 11.64996G | 46.23 | 54.00 | -7.77 | 32.77 | 3 | Horizontal | 49 | 2.72 | - | 39.30 | 8.36 | 34.20 |
| PK | 17.47274G | 64.43 | 68.20 | -3.77 | 44.66 | 3 | Horizontal | 243 | 2.42 | - | 42.32 | 11.63 | 34.18 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

17/11/2020



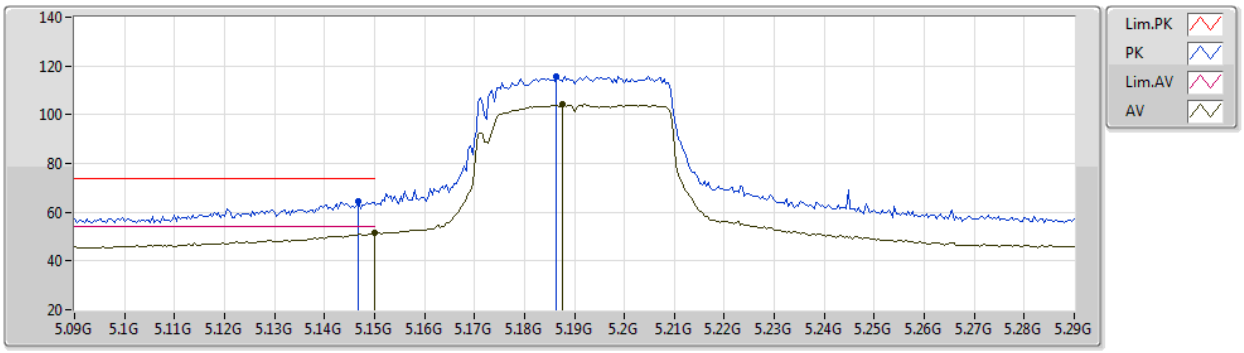

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1468G | 66.41 | 74.00 | -7.59 | 61.24 | 3 | Vertical | 3 | 1.77 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.1496G | 51.29 | 54.00 | -2.71 | 46.12 | 3 | Vertical | 3 | 1.77 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.1804G | 115.66 | Inf | -Inf | 110.63 | 3 | Vertical | 3 | 1.77 | - | 31.68 | 5.00 | 31.65 |
| AV | 5.1816G | 105.48 | Inf | -Inf | 100.46 | 3 | Vertical | 3 | 1.77 | - | 31.67 | 5.00 | 31.65 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

17/11/2020



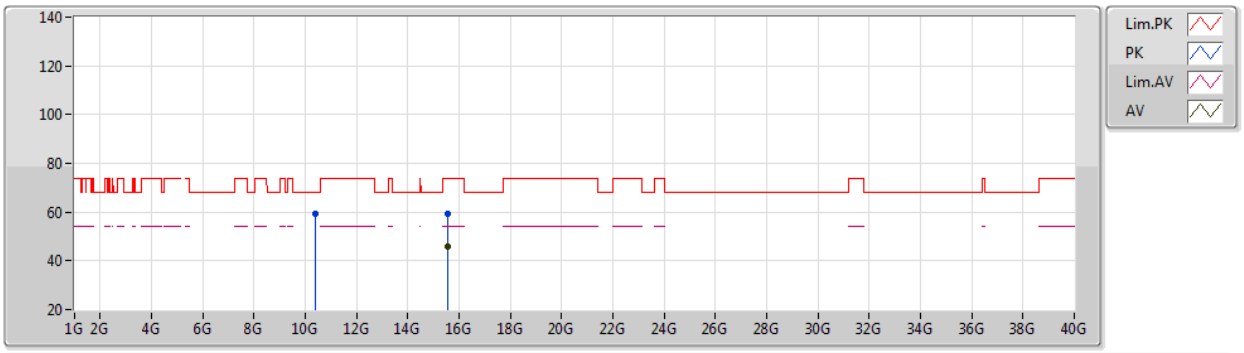

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1468G | 64.23 | 74.00 | -9.77 | 59.06 | 3 | Horizontal | 0 | 1.80 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.15G | 51.42 | 54.00 | -2.58 | 46.25 | 3 | Horizontal | 0 | 1.80 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.1864G | 115.79 | Inf | -Inf | 110.80 | 3 | Horizontal | 0 | 1.80 | - | 31.65 | 5.00 | 31.66 |
| AV | 5.1876G | 104.18 | Inf | -Inf | 99.19 | 3 | Horizontal | 0 | 1.80 | - | 31.65 | 5.00 | 31.66 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

17/11/2020



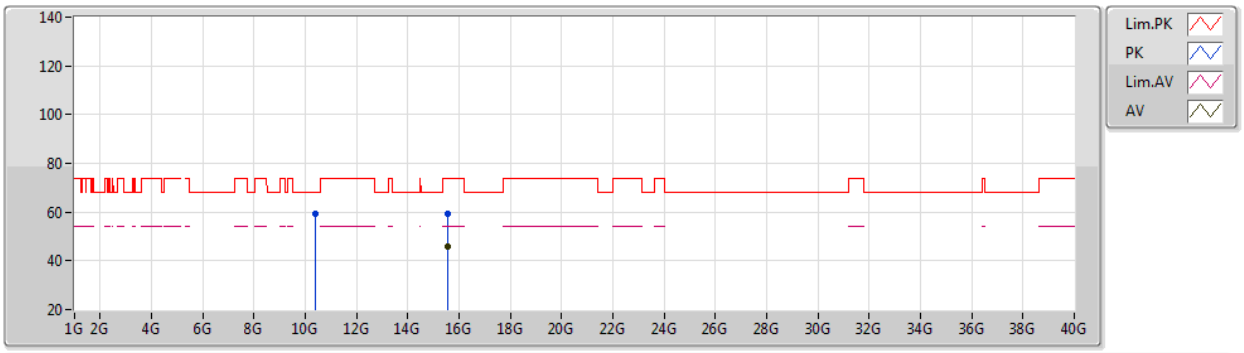

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.38004G | 59.08 | 68.20 | -9.12 | 45.45 | 3 | Vertical | 167 | 1.71 | - | 39.66 | 7.85 | 33.88 |
| PK | 15.57014G | 59.23 | 74.00 | -14.77 | 43.77 | 3 | Vertical | 357 | 1.80 | - | 39.01 | 10.39 | 33.94 |
| AV | 15.57171G | 46.03 | 54.00 | -7.97 | 30.58 | 3 | Vertical | 357 | 1.80 | - | 39.00 | 10.39 | 33.94 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5190MHz_TX

17/11/2020



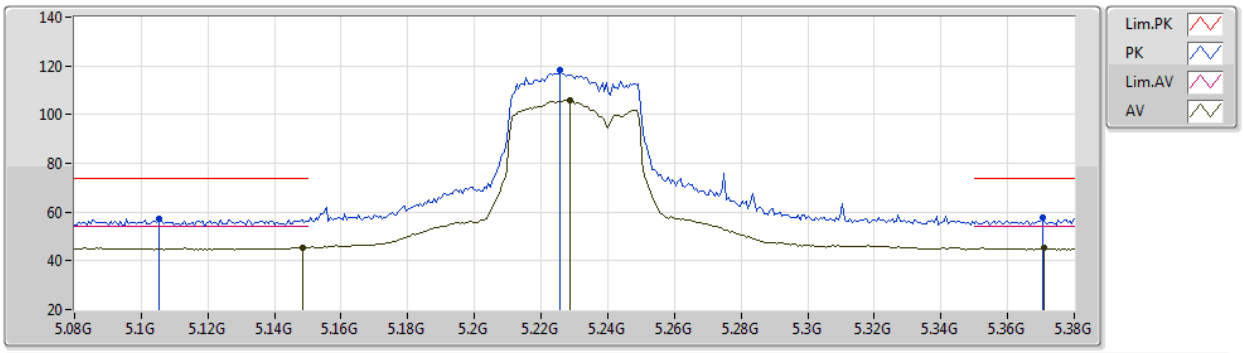

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.37998G | 59.51 | 68.20 | -8.69 | 45.88 | 3 | Horizontal | 123 | 1.93 | - | 39.66 | 7.85 | 33.88 |
| PK | 15.56826G | 59.25 | 74.00 | -14.75 | 43.79 | 3 | Horizontal | 157 | 2.27 | - | 39.02 | 10.38 | 33.94 |
| AV | 15.57024G | 45.82 | 54.00 | -8.18 | 30.36 | 3 | Horizontal | 157 | 2.27 | - | 39.01 | 10.39 | 33.94 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

17/11/2020



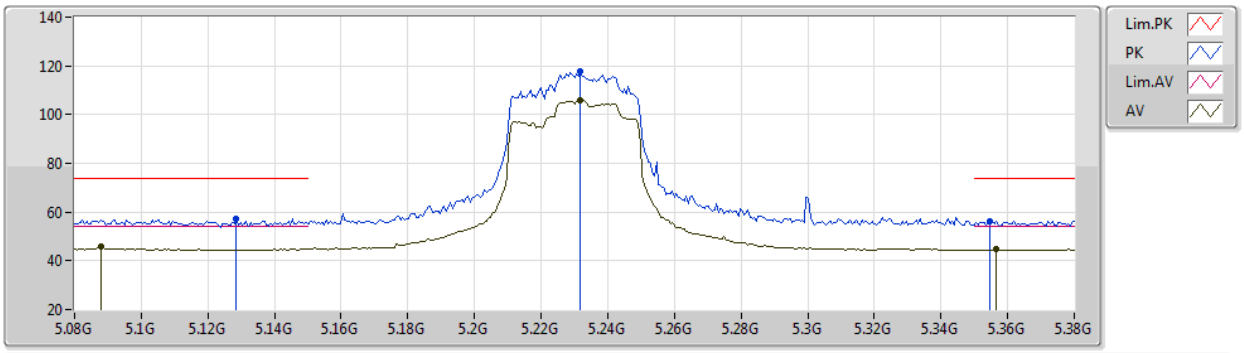

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1052G | 57.14 | 74.00 | -16.86 | 51.94 | 3 | Vertical | 0 | 1.79 | - | 31.80 | 5.00 | 31.60 |
| AV | 5.1484G | 45.45 | 54.00 | -8.55 | 40.28 | 3 | Vertical | 0 | 1.79 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.2258G | 118.29 | Inf | -Inf | 113.52 | 3 | Vertical | 0 | 1.79 | - | 31.45 | 5.00 | 31.68 |
| AV | 5.2288G | 105.80 | Inf | -Inf | 101.06 | 3 | Vertical | 0 | 1.79 | - | 31.43 | 5.00 | 31.69 |
| PK | 5.3704G | 57.94 | 74.00 | -16.06 | 53.40 | 3 | Vertical | 0 | 1.79 | - | 31.32 | 5.00 | 31.78 |
| AV | 5.371G | 45.12 | 54.00 | -8.88 | 40.57 | 3 | Vertical | 0 | 1.79 | - | 31.33 | 5.00 | 31.78 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

17/11/2020



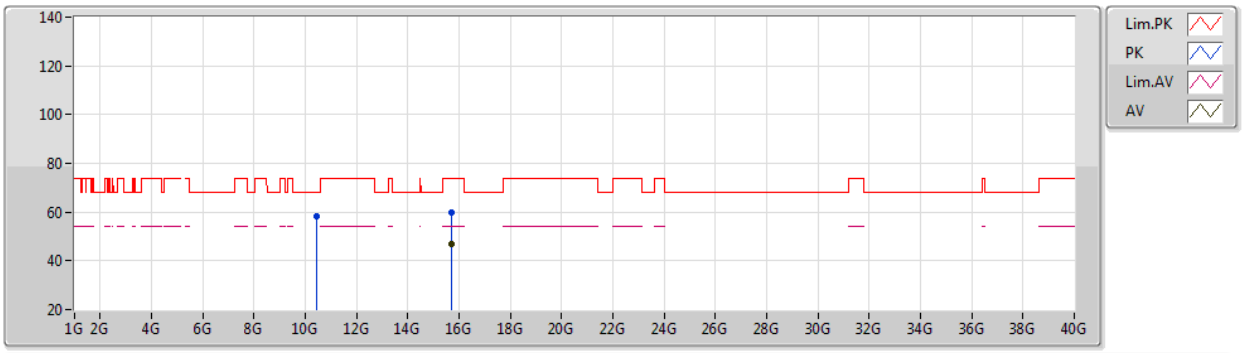

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1286G | 57.29 | 74.00 | -16.71 | 52.11 | 3 | Horizontal | 2 | 2.24 | - | 31.80 | 5.00 | 31.62 |
| AV | 5.0878G | 46.05 | 54.00 | -7.95 | 40.84 | 3 | Horizontal | 2 | 2.24 | - | 31.80 | 5.00 | 31.59 |
| PK | 5.2318G | 117.71 | Inf | -Inf | 112.99 | 3 | Horizontal | 2 | 2.24 | - | 31.41 | 5.00 | 31.69 |
| AV | 5.2318G | 105.97 | Inf | -Inf | 101.25 | 3 | Horizontal | 2 | 2.24 | - | 31.41 | 5.00 | 31.69 |
| PK | 5.3548G | 56.39 | 74.00 | -17.61 | 51.93 | 3 | Horizontal | 2 | 2.24 | - | 31.23 | 5.00 | 31.77 |
| AV | 5.3566G | 44.87 | 54.00 | -9.13 | 40.40 | 3 | Horizontal | 2 | 2.24 | - | 31.24 | 5.00 | 31.77 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

17/11/2020



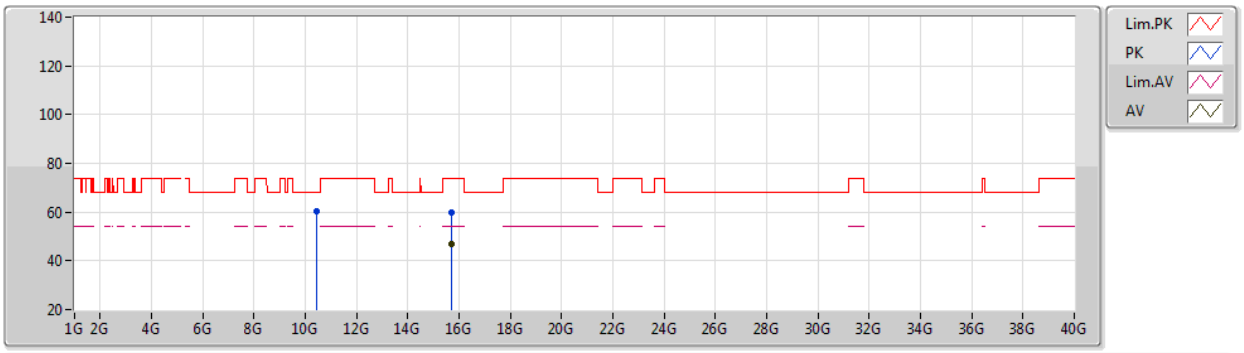

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.45992G | 58.40 | 68.20 | -9.80 | 44.62 | 3 | Vertical | 165 | 1.80 | - | 39.82 | 7.88 | 33.92 |
| PK | 15.69864G | 59.82 | 74.00 | -14.18 | 44.50 | 3 | Vertical | 64 | 1.32 | - | 38.90 | 10.45 | 34.03 |
| AV | 15.692G | 46.74 | 54.00 | -7.26 | 31.43 | 3 | Vertical | 64 | 1.32 | - | 38.89 | 10.45 | 34.03 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5230MHz_TX

17/11/2020



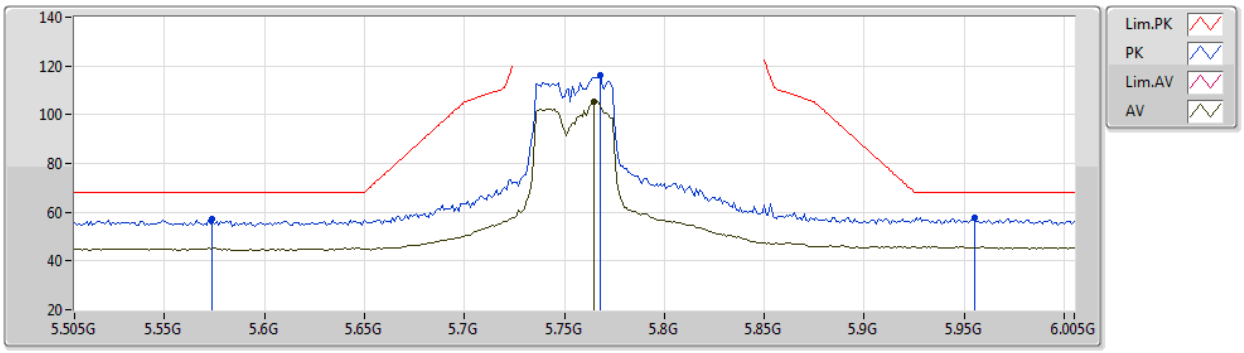

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.4599G | 60.55 | 68.20 | -7.65 | 46.77 | 3 | Horizontal | 179 | 2.30 | - | 39.82 | 7.88 | 33.92 |
| PK | 15.68992G | 59.83 | 74.00 | -14.17 | 44.53 | 3 | Horizontal | 299 | 3.00 | - | 38.89 | 10.44 | 34.03 |
| AV | 15.68524G | 46.69 | 54.00 | -7.31 | 31.38 | 3 | Horizontal | 299 | 3.00 | - | 38.89 | 10.44 | 34.02 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

17/11/2020



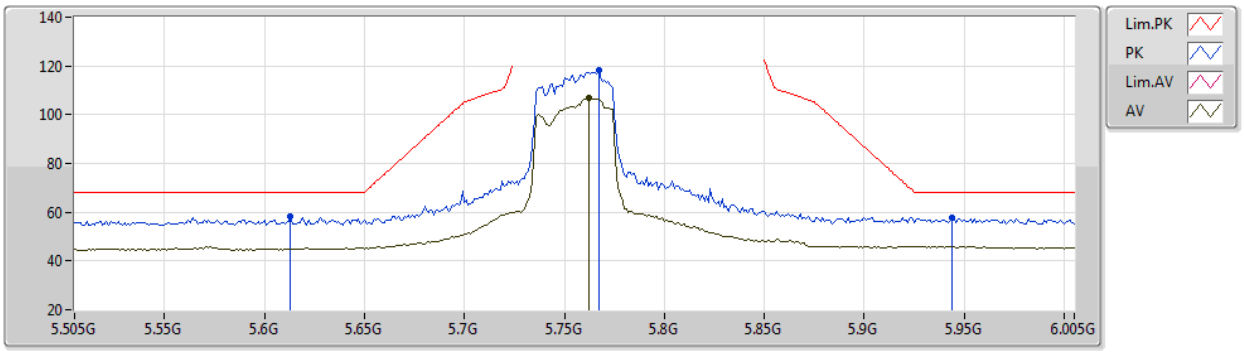

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.574G | 57.10 | 68.20 | -11.10 | 52.26 | 3 | Vertical | 326 | 1.80 | - | 31.50 | 5.17 | 31.83 |
| PK | 5.768G | 115.96 | Inf | -Inf | 110.48 | 3 | Vertical | 326 | 1.80 | - | 31.94 | 5.28 | 31.74 |
| AV | 5.765G | 105.34 | Inf | -Inf | 99.87 | 3 | Vertical | 326 | 1.80 | - | 31.93 | 5.28 | 31.74 |
| PK | 5.955G | 57.78 | 68.20 | -10.42 | 51.67 | 3 | Vertical | 326 | 1.80 | - | 32.30 | 5.46 | 31.65 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

17/11/2020



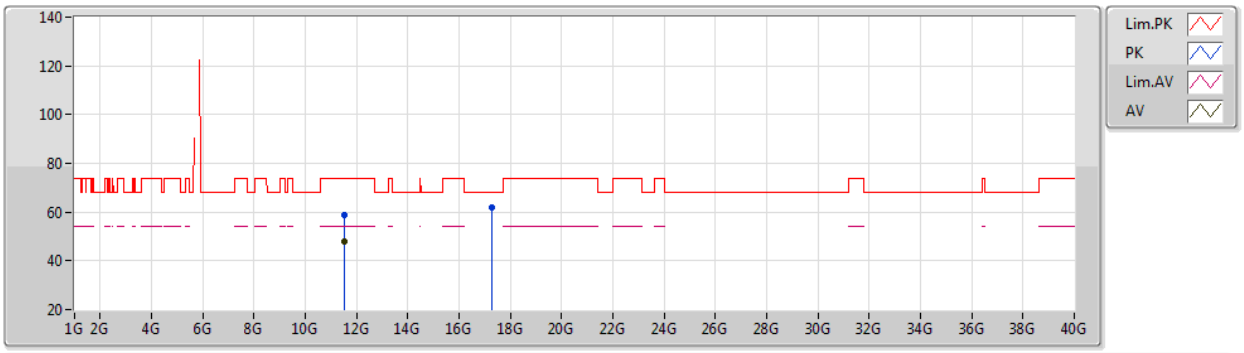

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.613G | 58.07 | 68.20 | -10.13 | 53.18 | 3 | Horizontal | 330 | 1.80 | - | 31.50 | 5.21 | 31.82 |
| PK | 5.767G | 118.27 | Inf | -Inf | 112.80 | 3 | Horizontal | 330 | 1.80 | - | 31.93 | 5.28 | 31.74 |
| AV | 5.762G | 106.74 | Inf | -Inf | 101.28 | 3 | Horizontal | 330 | 1.80 | - | 31.92 | 5.28 | 31.74 |
| PK | 5.944G | 57.54 | 68.20 | -10.66 | 51.46 | 3 | Horizontal | 330 | 1.80 | - | 32.30 | 5.44 | 31.66 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

17/11/2020



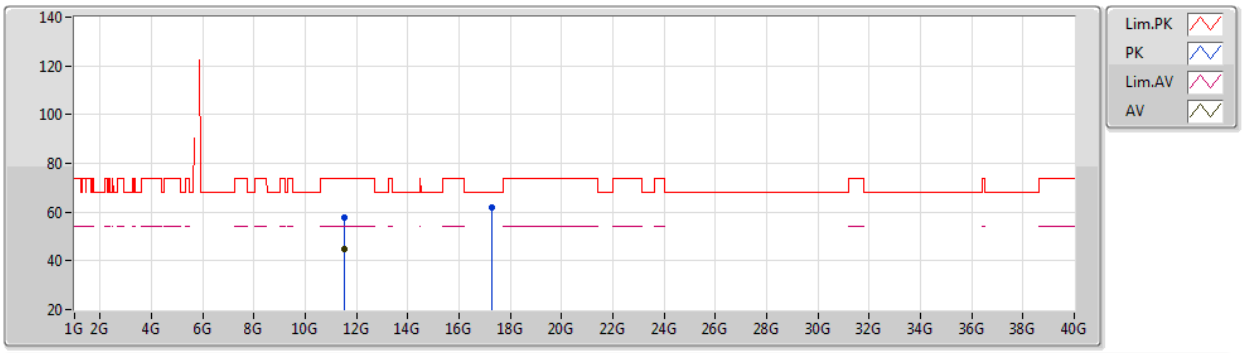

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.50984G | 58.69 | 74.00 | -15.31 | 44.64 | 3 | Vertical | 320 | 2.05 | - | 39.96 | 8.30 | 34.21 |
| AV | 11.50998G | 47.71 | 54.00 | -6.29 | 33.66 | 3 | Vertical | 320 | 2.05 | - | 39.96 | 8.30 | 34.21 |
| PK | 17.26481G | 61.86 | 68.20 | -6.34 | 43.56 | 3 | Vertical | 360 | 1.80 | - | 41.06 | 11.49 | 34.25 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5755MHz_TX

17/11/2020



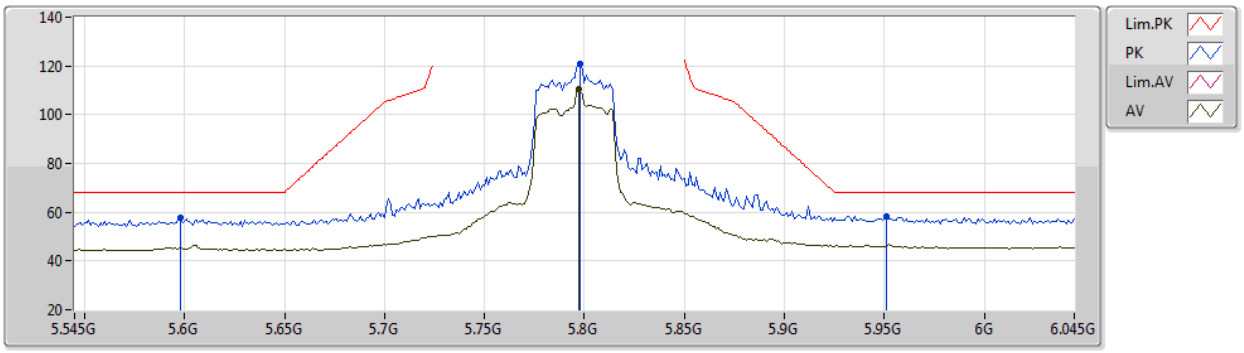

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.51012G | 57.52 | 74.00 | -16.48 | 43.47 | 3 | Horizontal | 288 | 2.27 | - | 39.96 | 8.30 | 34.21 |
| AV | 11.5099G | 44.98 | 54.00 | -9.02 | 30.93 | 3 | Horizontal | 288 | 2.27 | - | 39.96 | 8.30 | 34.21 |
| PK | 17.26512G | 61.75 | 68.20 | -6.45 | 43.45 | 3 | Horizontal | 190 | 2.36 | - | 41.06 | 11.49 | 34.25 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

17/11/2020



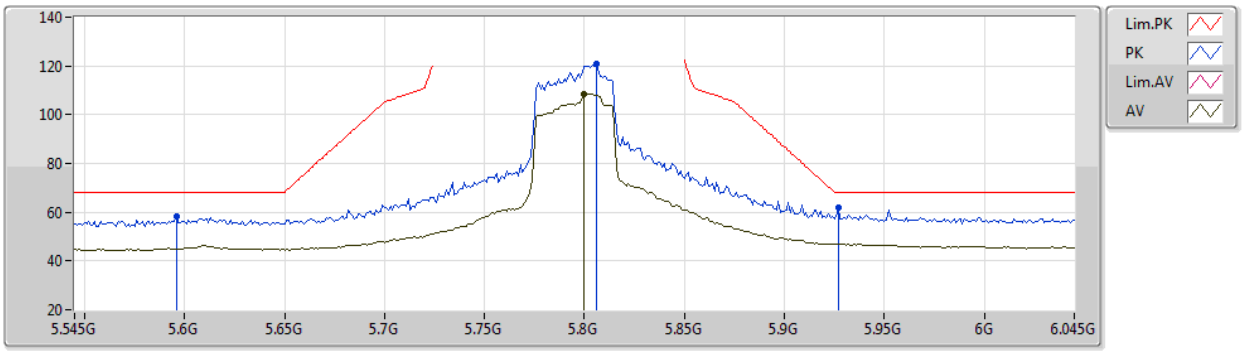

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.598G | 57.70 | 68.20 | -10.50 | 52.82 | 3 | Vertical | 15 | 2.27 | - | 31.50 | 5.20 | 31.82 |
| PK | 5.798G | 120.88 | Inf | -Inf | 115.31 | 3 | Vertical | 15 | 2.27 | - | 32.00 | 5.30 | 31.73 |
| AV | 5.797G | 110.37 | Inf | -Inf | 104.81 | 3 | Vertical | 15 | 2.27 | - | 31.99 | 5.30 | 31.73 |
| PK | 5.951G | 58.50 | 68.20 | -9.70 | 52.40 | 3 | Vertical | 15 | 2.27 | - | 32.30 | 5.45 | 31.65 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

17/11/2020



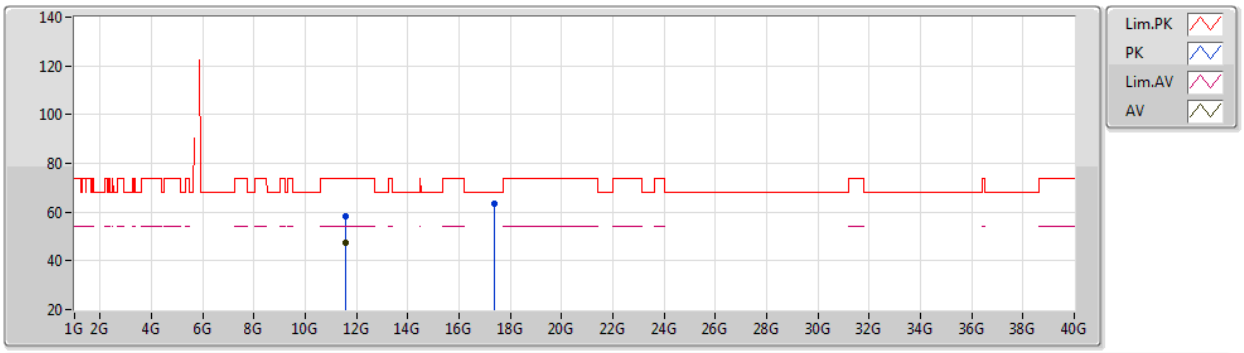

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.596G | 58.16 | 68.20 | -10.04 | 53.28 | 3 | Horizontal | 338 | 1.69 | - | 31.50 | 5.20 | 31.82 |
| PK | 5.806G | 120.78 | Inf | -Inf | 115.17 | 3 | Horizontal | 338 | 1.69 | - | 32.02 | 5.31 | 31.72 |
| AV | 5.8G | 108.46 | Inf | -Inf | 102.89 | 3 | Horizontal | 338 | 1.69 | - | 32.00 | 5.30 | 31.73 |
| PK | 5.927G | 61.96 | 68.20 | -6.24 | 55.90 | 3 | Horizontal | 338 | 1.69 | - | 32.30 | 5.43 | 31.67 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

17/11/2020



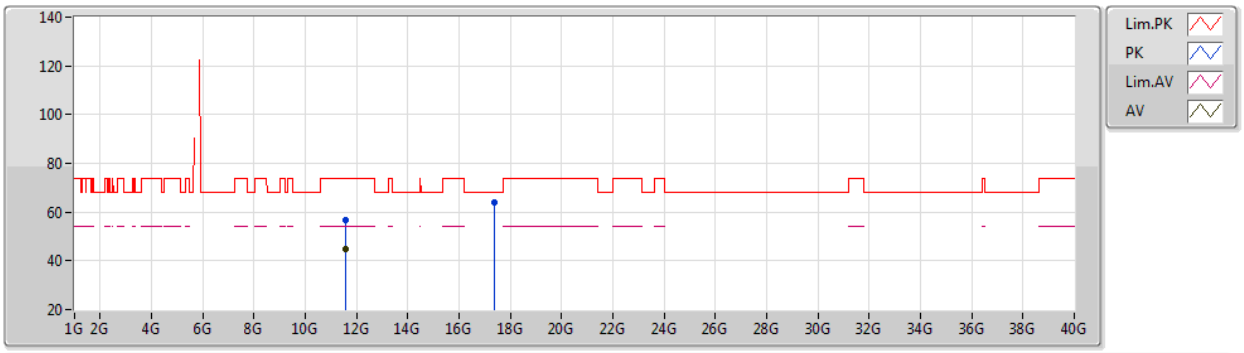

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.58999G | 58.17 | 74.00 | -15.83 | 44.39 | 3 | Vertical | 319 | 2.07 | - | 39.64 | 8.34 | 34.20 |
| AV | 11.58997G | 47.22 | 54.00 | -6.78 | 33.44 | 3 | Vertical | 319 | 2.07 | - | 39.64 | 8.34 | 34.20 |
| PK | 17.38576G | 63.56 | 68.20 | -4.64 | 44.23 | 3 | Vertical | 332 | 1.80 | - | 41.97 | 11.57 | 34.21 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_2TX

## 5795MHz_TX

17/11/2020



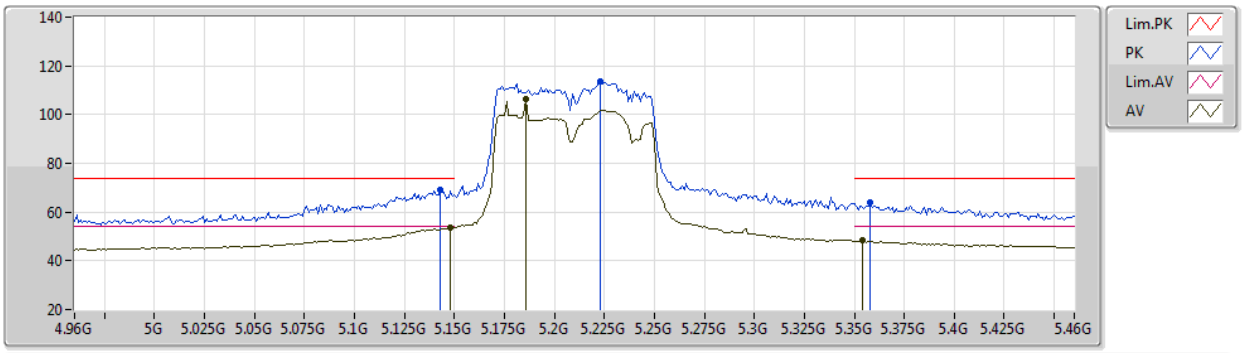

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.59009G | 56.98 | 74.00 | -17.02 | 43.20 | 3 | Horizontal | 52 | 2.73 | - | 39.64 | 8.34 | 34.20 |
| AV | 11.58996G | 45.00 | 54.00 | -9.00 | 31.22 | 3 | Horizontal | 52 | 2.73 | - | 39.64 | 8.34 | 34.20 |
| PK | 17.3848G | 63.77 | 68.20 | -4.43 | 44.45 | 3 | Horizontal | 2 | 1.80 | - | 41.96 | 11.57 | 34.21 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

17/11/2020



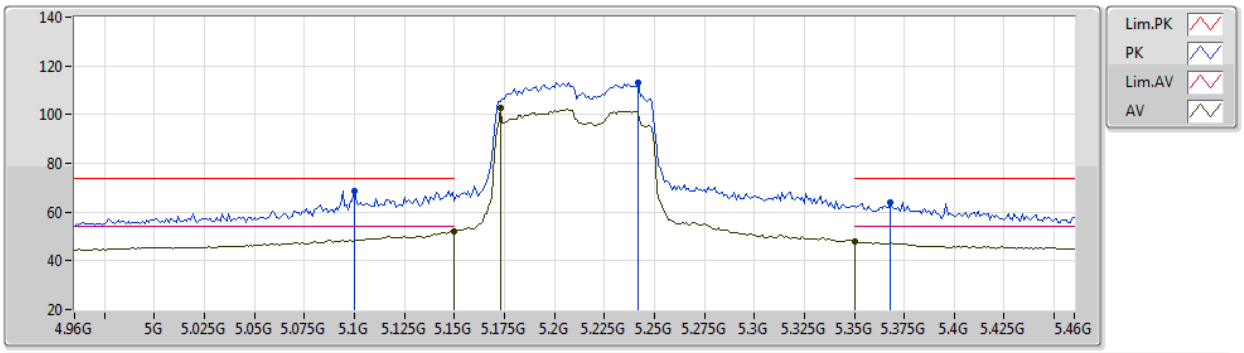

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.143G | 68.90 | 74.00 | -5.10 | 63.73 | 3 | Vertical | 7 | 1.90 | - | 31.80 | 5.00 | 31.63 |
| AV | 5.148G | 53.53 | 54.00 | -0.47 | 48.36 | 3 | Vertical | 7 | 1.90 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.223G | 113.49 | Inf | -Inf | 108.71 | 3 | Vertical | 7 | 1.90 | - | 31.46 | 5.00 | 31.68 |
| AV | 5.186G | 106.46 | Inf | -Inf | 101.46 | 3 | Vertical | 7 | 1.90 | - | 31.66 | 5.00 | 31.66 |
| PK | 5.358G | 63.81 | 74.00 | -10.19 | 59.33 | 3 | Vertical | 7 | 1.90 | - | 31.25 | 5.00 | 31.77 |
| AV | 5.354G | 48.66 | 54.00 | -5.34 | 44.21 | 3 | Vertical | 7 | 1.90 | - | 31.22 | 5.00 | 31.77 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

17/11/2020



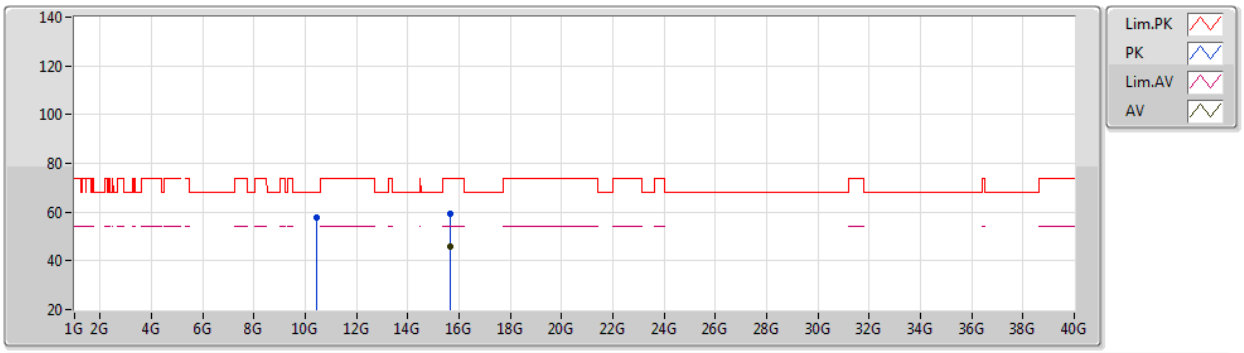

EUT Y_2TX
Setting 26
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.1G | 68.66 | 74.00 | -5.34 | 63.46 | 3 | Horizontal | 360 | 1.89 | - | 31.80 | 5.00 | 31.60 |
| AV | 5.15G | 52.25 | 54.00 | -1.75 | 47.08 | 3 | Horizontal | 360 | 1.89 | - | 31.80 | 5.00 | 31.63 |
| PK | 5.242G | 112.96 | Inf | -Inf | 108.30 | 3 | Horizontal | 360 | 1.89 | - | 31.35 | 5.00 | 31.69 |
| AV | 5.173G | 102.59 | Inf | -Inf | 97.53 | 3 | Horizontal | 360 | 1.89 | - | 31.71 | 5.00 | 31.65 |
| PK | 5.368G | 64.22 | 74.00 | -9.78 | 59.69 | 3 | Horizontal | 360 | 1.89 | - | 31.31 | 5.00 | 31.78 |
| AV | 5.35G | 47.74 | 54.00 | -6.26 | 43.31 | 3 | Horizontal | 360 | 1.89 | - | 31.20 | 5.00 | 31.77 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

17/11/2020



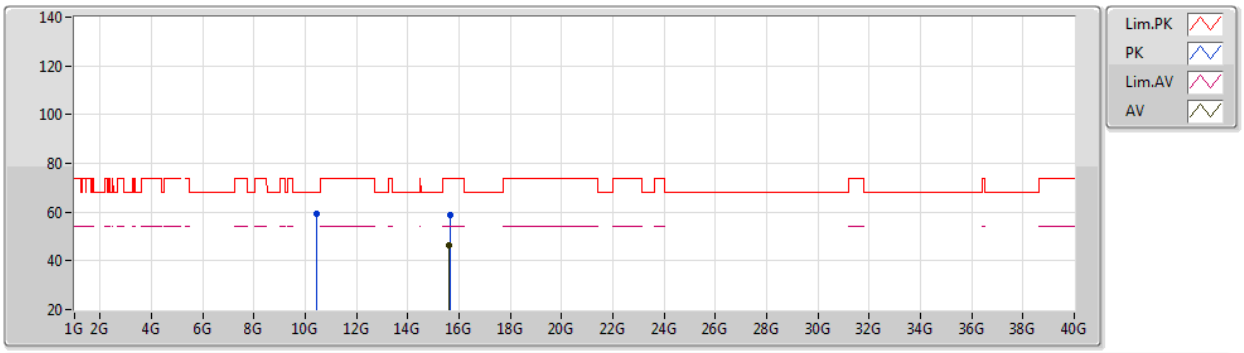

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.41995G | 57.63 | 68.20 | -10.57 | 43.92 | 3 | Vertical | 169 | 1.70 | - | 39.74 | 7.87 | 33.90 |
| PK | 15.6312G | 59.43 | 74.00 | -14.57 | 44.16 | 3 | Vertical | 150 | 1.80 | - | 38.83 | 10.42 | 33.98 |
| AV | 15.63204G | 46.00 | 54.00 | -8.00 | 30.74 | 3 | Vertical | 150 | 1.80 | - | 38.83 | 10.42 | 33.99 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5210MHz_TX

17/11/2020



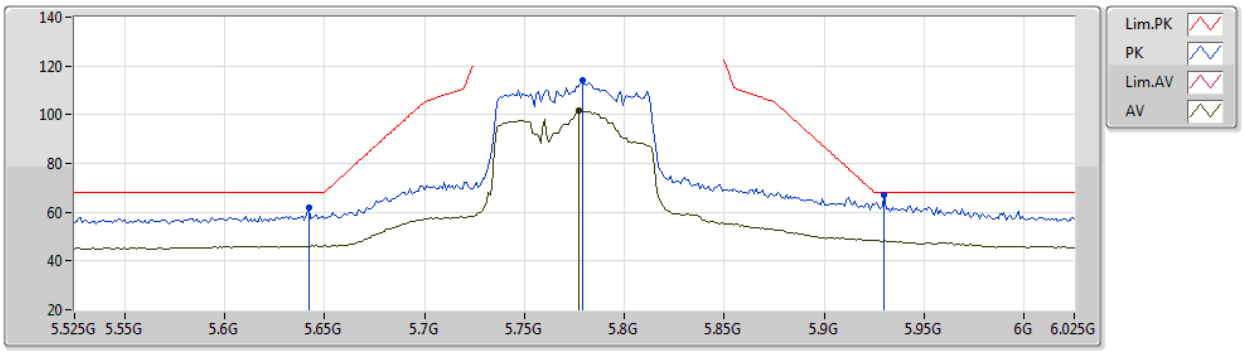

EUT Y_2TX
Setting 26
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 10.42007G | 59.44 | 68.20 | -8.76 | 45.73 | 3 | Horizontal | 121 | 1.87 | - | 39.74 | 7.87 | 33.90 |
| PK | 15.63296G | 58.82 | 74.00 | -15.18 | 43.56 | 3 | Horizontal | 125 | 2.99 | - | 38.83 | 10.42 | 33.99 |
| AV | 15.62172G | 46.13 | 54.00 | -7.87 | 30.88 | 3 | Horizontal | 125 | 2.99 | - | 38.82 | 10.41 | 33.98 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

18/11/2020



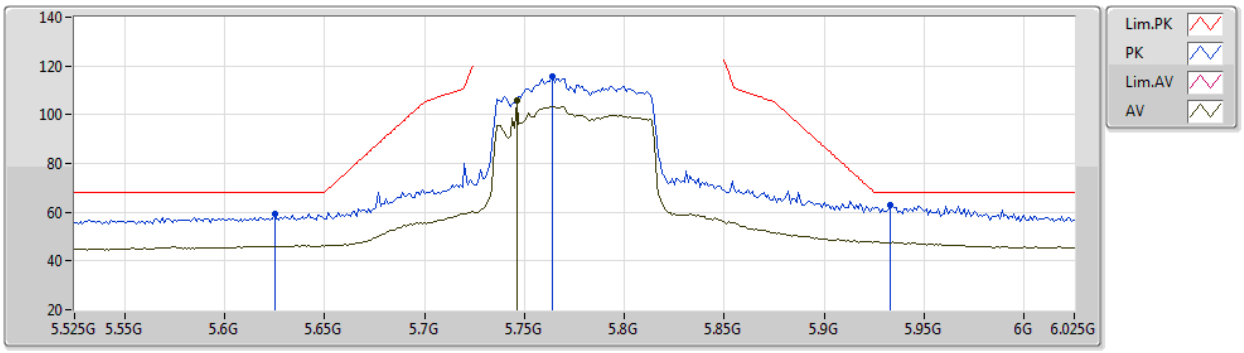

EUT Y_2TX
Setting 25
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.642G | 61.78 | 68.20 | -6.42 | 56.86 | 3 | Vertical | 347 | 1.80 | - | 31.50 | 5.22 | 31.80 |
| PK | 5.779G | 114.02 | Inf | -Inf | 108.51 | 3 | Vertical | 347 | 1.80 | - | 31.96 | 5.29 | 31.74 |
| AV | 5.777G | 101.73 | Inf | -Inf | 96.23 | 3 | Vertical | 347 | 1.80 | - | 31.95 | 5.29 | 31.74 |
| PK | 5.93G | 67.11 | 68.20 | -1.09 | 61.04 | 3 | Vertical | 347 | 1.80 | - | 32.30 | 5.43 | 31.66 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

18/11/2020



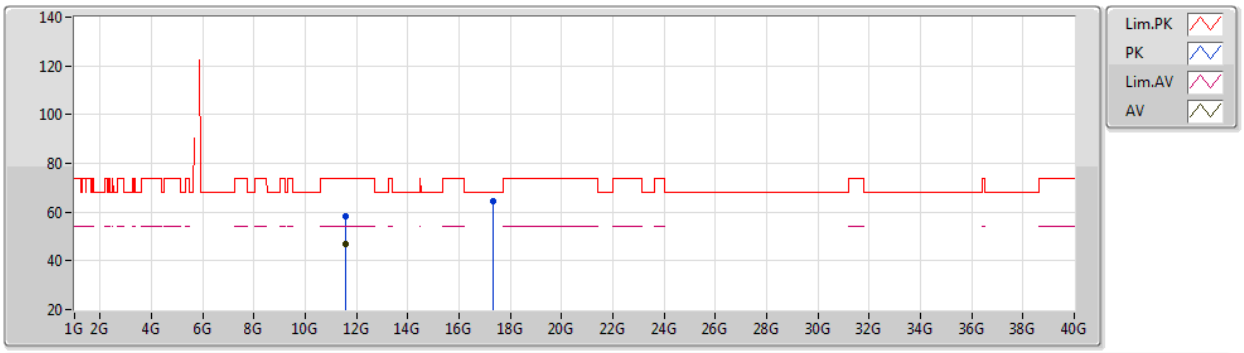

EUT Y_2TX
Setting 25
06-D-K-3-10

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 5.625G | 59.36 | 68.20 | -8.84 | 54.46 | 3 | Horizontal | 330 | 1.80 | - | 31.50 | 5.21 | 31.81 |
| PK | 5.764G | 115.61 | Inf | -Inf | 110.14 | 3 | Horizontal | 330 | 1.80 | - | 31.93 | 5.28 | 31.74 |
| AV | 5.746G | 105.67 | Inf | -Inf | 100.27 | 3 | Horizontal | 330 | 1.80 | - | 31.88 | 5.27 | 31.75 |
| PK | 5.933G | 62.92 | 68.20 | -5.28 | 56.85 | 3 | Horizontal | 330 | 1.80 | - | 32.30 | 5.43 | 31.66 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

18/11/2020



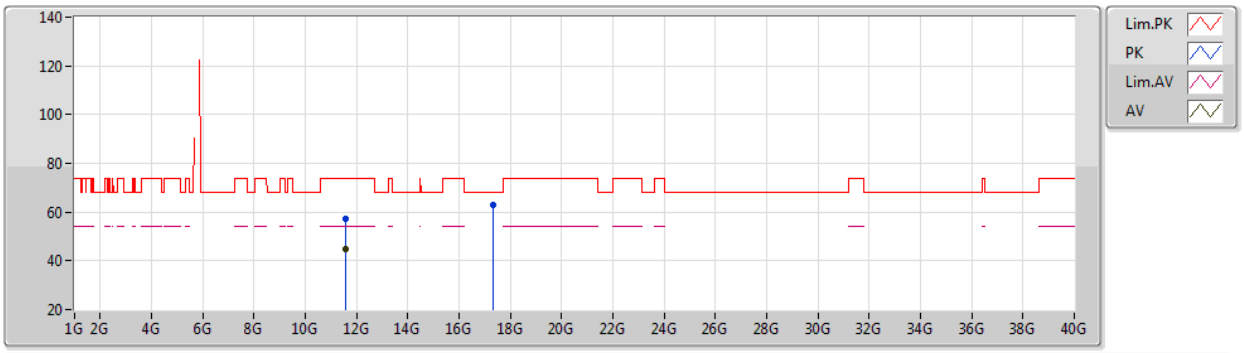

EUT Y_2TX
Setting 25
06-D-K-3

| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.54993G | 58.40 | 74.00 | -15.60 | 44.49 | 3 | Vertical | 322 | 2.05 | - | 39.80 | 8.32 | 34.21 |
| AV | 11.54998G | 47.10 | 54.00 | -6.90 | 33.19 | 3 | Vertical | 322 | 2.05 | - | 39.80 | 8.32 | 34.21 |
| PK | 17.3215G | 64.43 | 68.20 | -3.77 | 45.74 | 3 | Vertical | 44 | 2.97 | - | 41.39 | 11.53 | 34.23 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_2TX

## 5775MHz_TX

18/11/2020




EUT Y_2TX
Setting 25
06-D-K-3

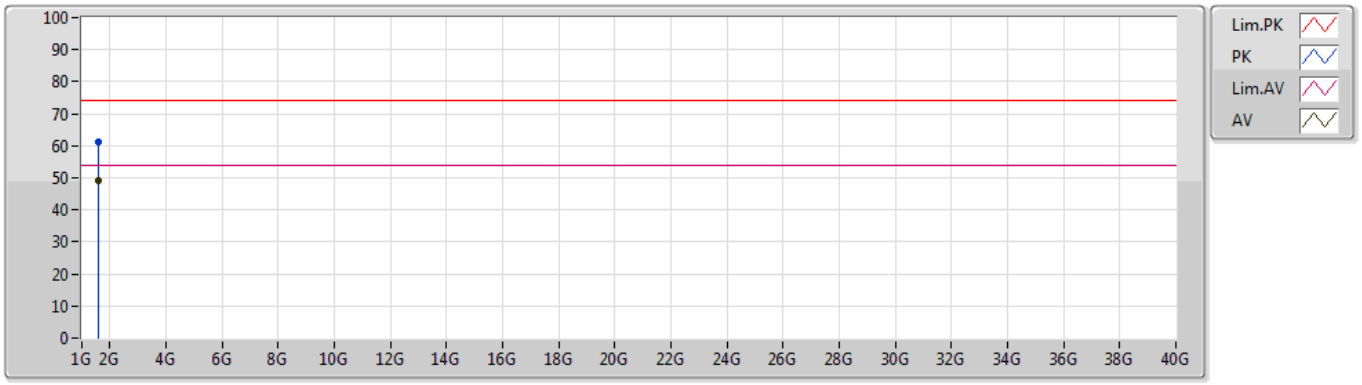
| Type | Freq | Level | Limit | Margin | Raw | Dist | Condition | Azimuth | Height | Comment | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dBuV) | (m) | | (°) | (m) | | (dB) | (dB) | (dB) |
| PK | 11.54986G | 57.24 | 74.00 | -16.76 | 43.33 | 3 | Horizontal | 50 | 2.73 | - | 39.80 | 8.32 | 34.21 |
| AV | 11.5499G | 44.97 | 54.00 | -9.03 | 31.06 | 3 | Horizontal | 50 | 2.73 | - | 39.80 | 8.32 | 34.21 |
| PK | 17.32072G | 63.06 | 68.20 | -5.14 | 44.38 | 3 | Horizontal | 189 | 2.35 | - | 41.39 | 11.52 | 34.23 |

Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Condition |
|---|---|---|---|---|---|---|---|
| Mode 1 | Pass | AV | 1.57085G | 49.01 | 54.00 | -4.99 | Vertical |

## Mode 1

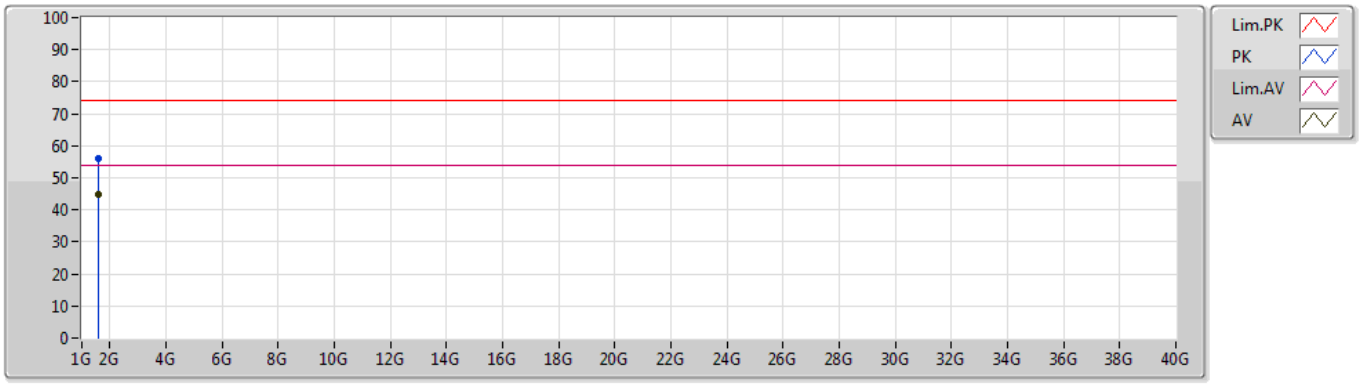
17/11/2020




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| PK | 1.57128G | 61.26 | 74.00 | -12.74 | -8.14 | 3 | Vertical | 140 | 1.00 | - | 69.40 | 25.10 | 3.34 | 36.58 |
| AV | 1.57085G | 49.01 | 54.00 | -4.99 | -8.14 | 3 | Vertical | 140 | 1.00 | "Worst" | 57.15 | 25.10 | 3.34 | 36.58 |

## Mode 1

17/11/2020




| Type | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comment | Raw | AF | CL | PA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | | (dBuV) | (dB) | (dB) | (dB) |
| PK | 1.57136G | 56.11 | 74.00 | -17.89 | -8.14 | 3 | Horizontal | 33 | 1.00 | - | 64.25 | 25.10 | 3.34 | 36.58 |
| AV | 1.57296G | 44.64 | 54.00 | -9.36 | -8.13 | 3 | Horizontal | 33 | 1.00 | "Worst" | 52.77 | 25.10 | 3.35 | 36.58 |