# FCC RADIO TEST REPORT

| | | |
|---|---|---|
| FCC ID | : | 2ADZRBGW320 |
| Equipment | : | BGW320-505 Wireless Integrated ONT Residential Gateway |
| Brand Name | : | Nokia |
| Model Name | : | BGW320-505 |
| Applicant | : | Nokia Shanghai Bell Co. Ltd.<br>No. 388, Ningqiao Rd. Pilot Free Trade Zone<br>Shanghai , China 201206 |
| Manufacturer | : | Nokia Shanghai Bell Co. Ltd.<br>No. 388, Ningqiao Rd. Pilot Free Trade Zone<br>Shanghai , China 201206 |
| Standard | : | 47 CFR FCC Part 15.407 |

The product was received on Feb. 27, 2020, and testing was started from Feb. 27, 2020 and completed on Apr. 28, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Cliff Chang

*SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory*
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# Table of Contents

# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FR912114-05 | 01 | Initial issue of report | Jun. 04, 2020 |
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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 | 15.407(a) | Maximum Conducted Output Power | PASS | - |
| 3.2 | 15.407(b) | Unwanted Emissions | PASS | - |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

**Reviewed by: Sam Chen**

**Report Producer: Wendy Pan**

# 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] |
| 5250-5350 | | 5260-5320 | 52-64 [4] |
| 5470-5725 | | 5500-5720 | 100-144 [12] |
| 5725-5850 | | 5745-5825 | 149-165 [5] |
| 5150-5250 | n (HT40), ac (VHT40), ax (HEW40) | 5190-5230 | 38-46 [2] |
| 5250-5350 | | 5270-5310 | 54-62 [2] |
| 5470-5725 | | 5510-5710 | 102-142 [6] |
| 5725-5850 | | 5755-5795 | 151-159 [2] |
| 5150-5250 | ac (VHT80), ax (HEW80) | 5210 | 42 [1] |
| 5250-5350 | | 5290 | 58 [1] |
| 5470-5725 | | 5530-5690 | 106-138 [3] |
| 5725-5850 | | 5775 | 155 [1] |
| 5150-5350 | ac (VHT160), ax (HEW160) | 5250 | 50 [1] |
| 5470-5725 | | 5570 | 114 [1] |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.15-5.25GHz | 802.11a | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11n HT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11n HT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW20-BF | 20 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11n HT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11n HT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW40-BF | 40 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT80 | 80 | 1TX, 2TX, 3TX, 4TX |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.15-5.25GHz | 802.11ac VHT80-BF | 80 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW80-BF | 80 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT160 | 160 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ac VHT160-BF | 160 | 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW160 | 160 | 1TX, 2TX, 3TX, 4TX |
| 5.15-5.25GHz | 802.11ax HEW160-BF | 160 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11a | 20 | 4TX |
| 5.25-5.35GHz | 802.11n HT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11n HT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW20-BF | 20 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11n HT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11n HT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW40-BF | 40 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT80-BF | 80 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW80-BF | 80 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT160 | 160 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ac VHT160-BF | 160 | 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW160 | 160 | 1TX, 2TX, 3TX, 4TX |
| 5.25-5.35GHz | 802.11ax HEW160-BF | 160 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11a | 20 | 4TX |
| 5.47-5.725GHz | 802.11n HT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11n HT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW20-BF | 20 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11n HT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11n HT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW40 | 40 | 1TX, 2TX, 3TX, 4TX |

| Band | Mode | BWch (MHz) | Nant |
|---|---|---|---|
| 5.47-5.725GHz | 802.11ax HEW40-BF | 40 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT80-BF | 80 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW80-BF | 80 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT160 | 160 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ac VHT160-BF | 160 | 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW160 | 160 | 1TX, 2TX, 3TX, 4TX |
| 5.47-5.725GHz | 802.11ax HEW160-BF | 160 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11a | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11n HT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11n HT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ac VHT20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ac VHT20-BF | 20 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ax HEW20 | 20 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ax HEW20-BF | 20 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11n HT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11n HT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ac VHT40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ac VHT40-BF | 40 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ax HEW40 | 40 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ax HEW40-BF | 40 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ac VHT80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ac VHT80-BF | 80 | 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ax HEW80 | 80 | 1TX, 2TX, 3TX, 4TX |
| 5.725-5.85GHz | 802.11ax HEW80-BF | 80 | 2TX, 3TX, 4TX |

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|---|---|---|---|---|---|
| 1 | Airgain | N2430ARJYW Rev A-PK1-L-G1X165BUR2 | PCB | I-PEX | Note 1 |
| 2 | Airgain | N2430ARHYN Rev A-PK1-L-Y1X140BUR2 | PCB | I-PEX | |
| 3 | Airgain | N2435ARHYN Rev A-PK1-L-B1X155BU | PCB | I-PEX | |
| 4 | Airgain | N2420ARHYW Rev A-PK1-L-A1X195BU | PCB | I-PEX | |
| 5 | Airgain | N5X20QSYN Rev A-PK1-L-B50UR2 | PCB | I-PEX | |
| 6 | Airgain | N5X20QSYE Rev A-PK1-L-A55UR2 | PCB | I-PEX | |
| 7 | Airgain | N5X20QSYN Rev A-PK1-L-Y1X190BU | PCB | I-PEX | |
| 8 | Airgain | N5X20QSYE Rev A-PK1-L-G1X160BU | PCB | I-PEX | |
| 9 | Airgain | N5X20HGHC Rev A-PK1-L-R1X1058U | PCB | I-PEX | |

Note 1:

| Ant. | 2.4GHz Port | | | | 5GHz Port | | | | Gain (dBi)<br>1TX mode for output power, PSD<br>CDD mode for output power | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1TX | 2TX | 3TX | 4TX | 1TX | 2TX | 3TX | 4TX | 2.4GHz | 5GHz Band 1 | 5GHz Band 2 | 5GHz Band 3 | 5GHz Band 4 |
| 1 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 4.9 | 5.8 | 6 | - | - |
| 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | | | | | |
| 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | | | | | |
| 4 | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | | | | | |
| 5 | - | - | - | - | 1 | 1 | 1 | 1 | - | - | - | 5.1 | 4.7 |
| 6 | - | - | - | - | 2 | 2 | 2 | 2 | | | | | |
| 7 | - | - | - | - | 3 | 3 | 3 | 3 | | | | | |
| 8 | - | - | - | - | 4 | 4 | 4 | 4 | | | | | |
| 9 | - | - | - | - | RX only | - | - | - | - | 3.9 | 3.4 | 4.6 | 4.2 |

| Ant. | Gain (dBi)<br>CDD mode for PSD<br>Beamforming mode, SDM Mode for output power & PSD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2.4GHz | | | | 5GHz Band 1 | | 5GHz Band 2 | | 5GHz Band 3 | | 5GHz Band 4 | |
| | 3T1S/ 3T2S | 3T3S | 4T1S/ 4T2S | 4T3S | 4T1S/ 4T2S | 4T3S | 4T1S/ 4T2S | 4T3S | 4T1S/ 4T2S | 4T3S | 4T1S/ 4T2S | 4T3S |
| 1 | 4.2 | 2.3 | 4.8 | 3.1 | 4.7 | 3.8 | 4.2 | 2.8 | - | - | - | - |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | - | - | - | - | - | - | - | - | 5.1 | 4.3 | 5 | 3.8 |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | - | - | - | - | 3.9 | | 3.4 | | 4.6 | | 4.2 | |

Note 2: The above information was declared by manufacturer.
Note 3: The EUT has nine antennas.
Note 4:
**For 2.4GHz function:**
**For IEEE 802.11b (1TX, 4TX/4RX):**
For 1TX
Only Port 1 can be used as transmitting antenna.
For 4TX, 4RX
Port 1, Port 2, Port 3 and Port 4 can be use as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
**For IEEE 802.11g (4TX/4RX):**
Port 1, Port 2, Pot 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Pot 3 and Port 4 could transmit/receive simultaneously.
**For IEEE 802.11n/VHT/ax (1TX, 2TX, 3TX, 4TX/4RX):**
For 1TX
The EUT supports all antennas with TX diversity functions.
At once time there is only one antenna port can transmitting RF signal
For 2TX
The EUT supports all antennas with TX diversity functions.
At once time there are only two antenna port can transmitting RF signal
For 3TX
The EUT supports all antennas with TX diversity functions.
At once time there are only three antenna port can transmitting RF signal
The Port 2, Port 3 and Port 4 generated the worst case, so it was selected to test and record in the report.
For 4TX, 4RX
Port 1, Port 2, Port 3 and Port 4 can be use as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For 5GHz function:**
**For IEEE 802.11a (4TX/4RX):**
Port 1, Port 2, Pot 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Pot 3 and Port 4 could transmit/receive simultaneously.
**For IEEE 802.11n/ac/ax (1TX, 2TX, 3TX, 4TX/4RX):**
For 1TX
The EUT supports all antennas with TX diversity functions.
At once time there is only one antenna port can transmitting RF signal
For 2TX
The EUT supports all antennas with TX diversity functions.
At once time there are only two antenna port can transmitting RF signal
For 3TX
The EUT supports all antennas with TX diversity functions.
At once time there are only three antenna port can transmitting RF signal
For 4TX, 4RX
Port 1, Port 2, Port 3 and Port 4 can be use as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For IEEE 802.11n/ac/ax (1RX):**
Ant.9 can be use as receiving antenna only.

### 1.1.3 EUT Operational Condition

| | | | | |
|---|---|---|---|---|
| **EUT Power Type** | From Power Adapter | | | |
| **Beamforming Function** | ☒ | With beamforming | ☐ | Without beamforming |
| | The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. | | | |
| **Weather Band** | ☒ | With 5600~5650MHz | ☐ | Without 5600~5650MHz |
| **Function** | ☐ | Outdoor P2M | ☒ | Indoor P2M |
| | ☐ | Fixed P2P | ☐ | Client |
| **TPC Function** | ☒ | With TPC | ☐ | Without TPC |
| **Test Software Version** | accessMTool v3.1.02、Telnet v6.1.7601 | | | |

Note: The above information was declared by manufacturer.

### 1.1.4 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR912114AB & FR912114-01

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

| Modifications | Performance Checking |
|---|---|
| Remove the filter on front of the 5G Low/high band PA. | 1.Maximum Conducted Output Power.<br>For Non beamforming<br>802.11ax HEW160: 5250MHz<br>For beamforming<br>802.11ax HEW80: 5775MHz<br>2.Unwanted Emissions below 1GHz.<br>3.Unwanted Emissions above 1GHz.<br>For Non beamforming<br>802.11ax HEW20: 5180, 5320, 5700MHz<br>802.11ac VHT40: 5550MHz<br>802.11ax HEW160: 5250, 5570MHz<br>For beamforming<br>802.11ax HEW20: 5240MHz<br>802.11ax HEW40: 5190, 5310, 5510, 5670, 5755MHz<br>802.11ax HEW80: 5210, 5290, 5530, 5775MHz |

Note: 1.Above test modes have been generated the worst case from original. Consequently, measurement will follow this same test mode.
2.The test modes will be based on original output power to re-test except nonbeamforming 802.11ax HEW160, beamforming 802.11ax HEW80: 5775MHz.

## 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 | | | |
|---|---|---|---|
| ☐ | HWA YA | ADD : | No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) |
| | | TEL : | 886-3-327-3456 FAX : 886-3-327-0973 |
| ☒ | JHUBEI | ADD : | No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. |
| | | TEL : | 886-3-656-9065 FAX : 886-3-656-9085 |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|---|---|---|---|---|
| RF Conducted | TH01-CB | Owen Hsu | 24.5-26.4°C / 60-66 % | Feb. 28, 2020 |
| Radiated<1GHz | 03CH05-CB | Andy Zou | 21.6-22.5°C / 55-60 % | Apr. 28, 2020 |
| Radiated>1GHz | 03CH06-CB | Andy Zou | 20-21.3°C / 58-63% | Feb. 27, 2020 ~ Feb. 28, 2020 |

Test site Designation No. TW0006 with FCC
Test site registered number IC 4086D with Industry Canada.

## 1.4 Measurement Uncertainty

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

| Test Items | Uncertainty | Remark |
|---|---|---|
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 4.3 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 5.1 dB | Confidence levels of 95% |
| Output Power Measurement | 1.5 dB | Confidence levels of 95% |

# 2 Test Configuration of EUT

## 2.1 Test Channel Mode

**<non-beamforming mode> 4T1S**

| Mode | PowerSetting |
|---|---|
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - |
| 5180MHz | 84 |
| 5320MHz | 73 |
| 5700MHz | 65 |
| 802.11ac VHT40_Nss1,(MCS0)_4TX | - |
| 5550MHz | 72 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - |
| 5250MHz Straddle 5.15-5.25GHz | 44 |
| 5250MHz | 44 |
| 5570MHz | 67 |

**<beamforming mode> 4T1S**

| Mode | PowerSetting |
|---|---|
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | - |
| 5240MHz | 98 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | - |
| 5190MHz | 70 |
| 5310MHz | 72 |
| 5510MHz | 69 |
| 5670MHz | 71 |
| 5755MHz | 96 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | - |
| 5210MHz | 66 |
| 5290MHz | 71 |
| 5530MHz | 71 |
| 5775MHz | 77 |

## 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| **Tests Item** | Maximum Conducted Output Power |
| **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** | CTX |
| **Operating Mode > 1GHz** | CTX |

Note: The EUT can only be used at Y axis position.

## 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 "LanTest20" to link with the remote workstation to transmit and receive packet by WLAN AP and transmit duty cycle no less than 98%.

## 2.4 Accessories

| Accessories | | | | |
|---|---|---|---|---|
| **No.** | **Equipment Name** | **Brand Name** | **Model Name** | **Rating** |
| 1 | Adapter | DIRECTV | EPS48R0-16 | Input: 120V~1.1A, 60Hz<br>Output: 12V, 4A, 48W |

## 2.5 Support Equipment

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

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

**For Radiated (above 1GHz) and RF Conducted test:**
**<non-beamforming mode>**

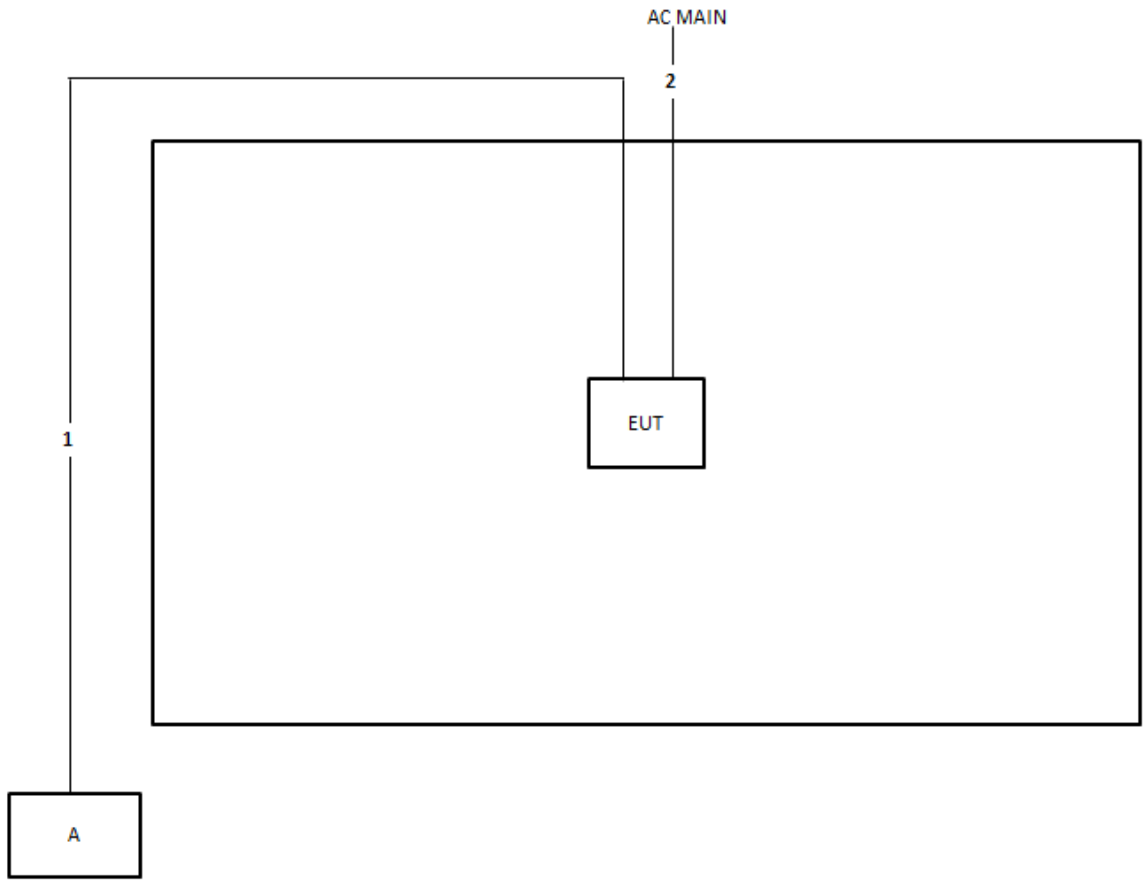
| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | Notebook | DELL | E4300 | N/A |

**<beamforming mode>**

| Support Equipment | | | | |
|---|---|---|---|---|
| **No.** | **Equipment** | **Brand Name** | **Model Name** | **FCC ID** |
| A | Notebook | DELL | E4300 | N/A |
| B | WLAN AP | ASUS | RT-AX88U | MSQ-RTAXHP00 |
| C | Notebook | DELL | E4300 | N/A |

## 2.6 Test Setup Diagram

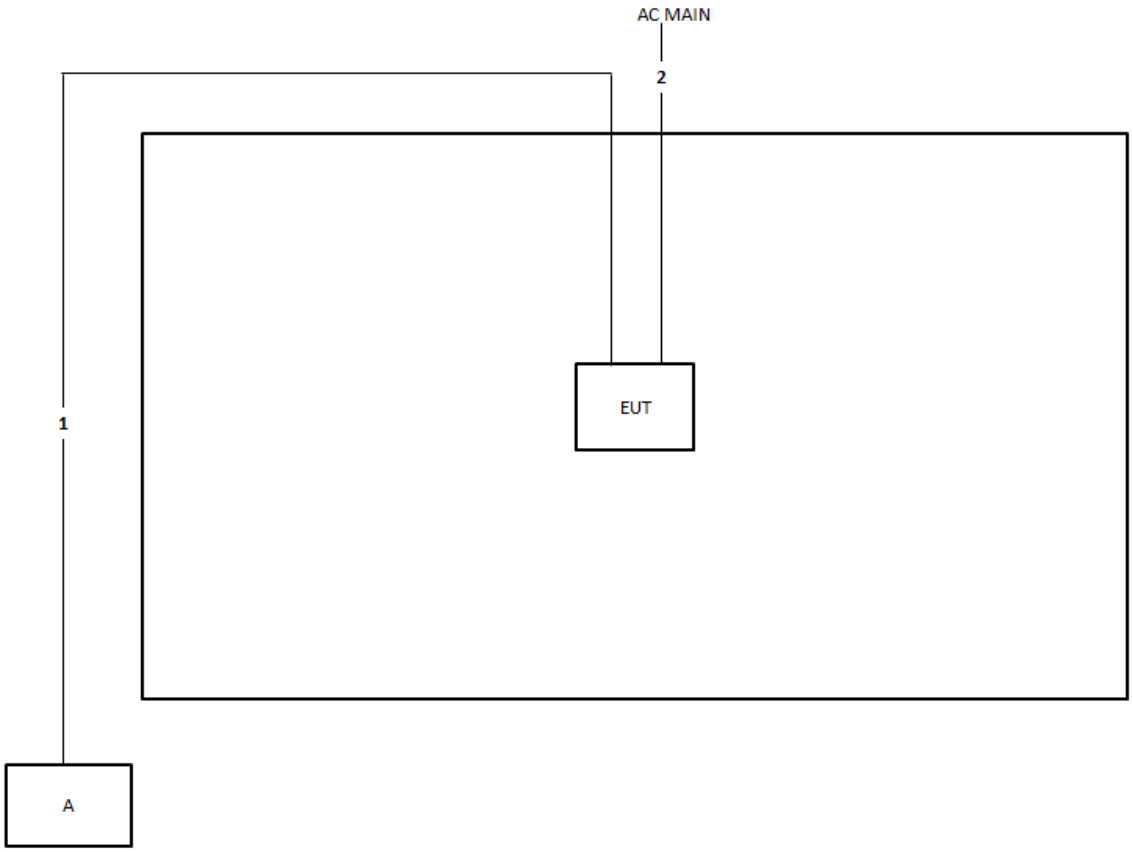
**Test Setup Diagram - Radiated Test < 1GHz**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | RJ-45 cable | No | 10m |
| 2 | Power cable | No | 3.2m |

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

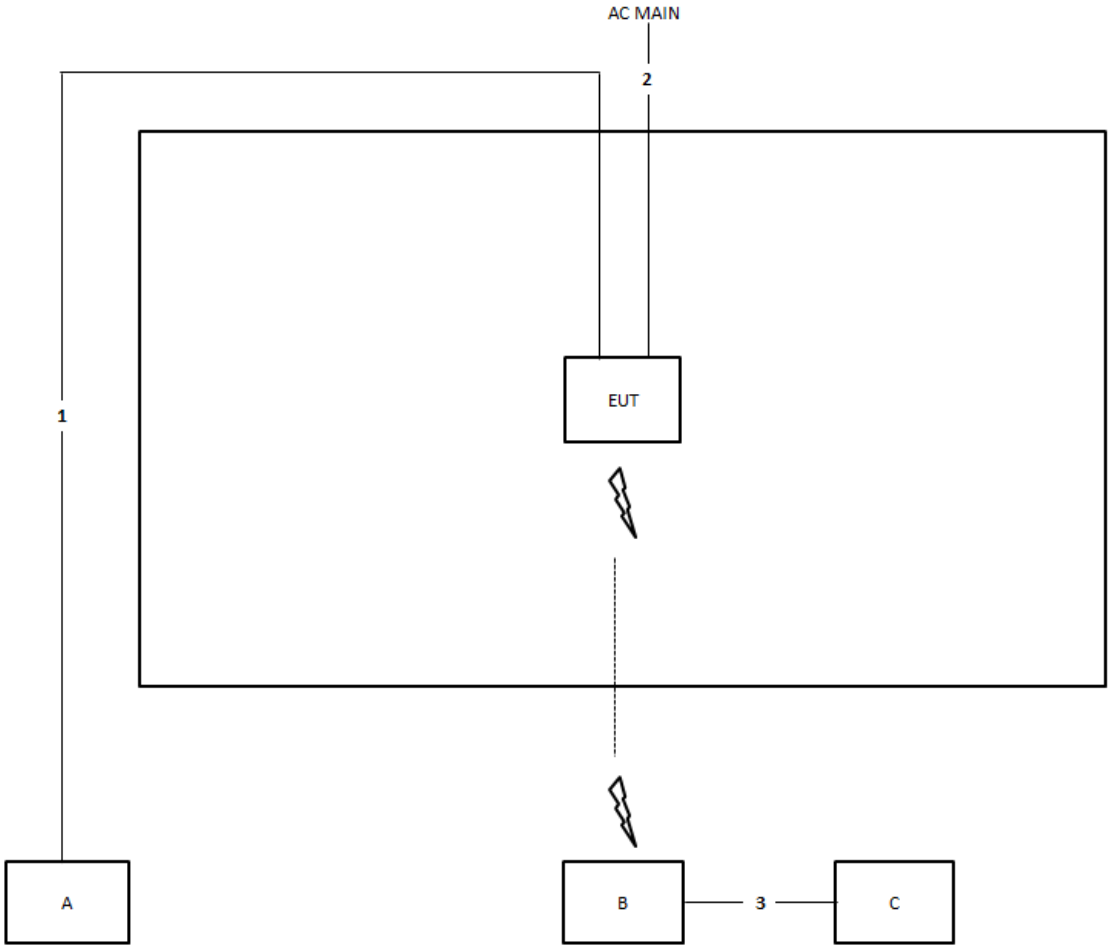
**<For Non-Beamforming Mode>**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | RJ-45 cable | No | 10m |
| 2 | Power cable | No | 3.2m |

## Test Setup Diagram - Radiated Test > 1GHz

**<For Beamforming Mode>**




| Item | Connection | Shielded | Length |
|---|---|---|---|
| 1 | RJ-45 cable | No | 10m |
| 2 | Power cable | No | 3.2m |
| 3 | RJ-45 cable | No | 1.5m |

# 3 Transmitter Test Result

## 3.1 Maximum Conducted Output Power

### 3.1.1 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. | |

### 3.1.2 Measuring Instruments

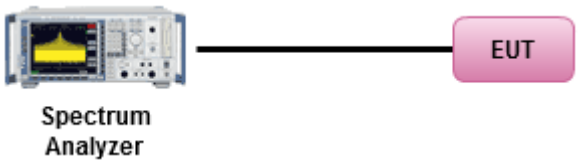
Refer a test equipment and calibration data table in this test report.

### 3.1.3 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>$EIRP_{total} = P_{total} + DG$ |

### 3.1.4 Test Setup

**For Straddle channel test:**

| RF Output Power (Spectrum Analyzer) |
|---|
|  |

**For other test:**

| RF Output Power (Power Meter) |
|---|
|  |

### 3.1.5 Test Result of Maximum Conducted Output Power

Refer as Appendix A

## 3.2 Unwanted Emissions

### 3.2.1 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). | |

### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

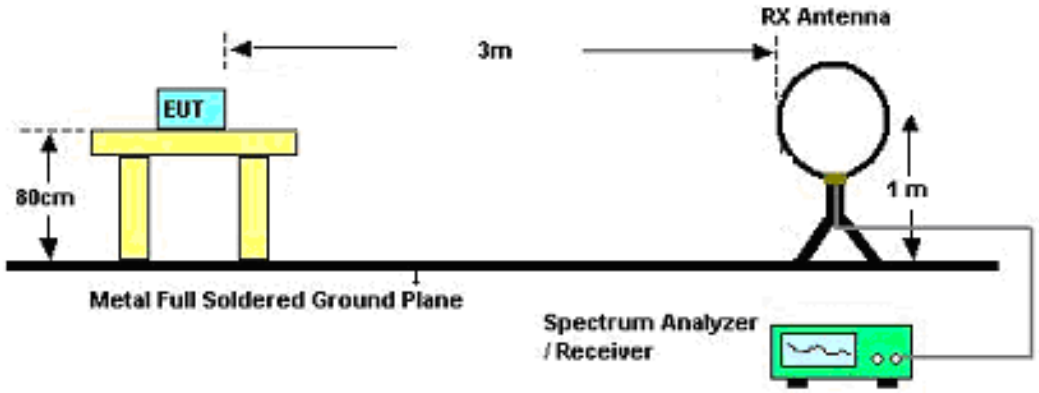
| Test Method | | |
|---|---|---|
| ▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 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. |

| Test Method | |
|---|---|
| ▪ 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. | |

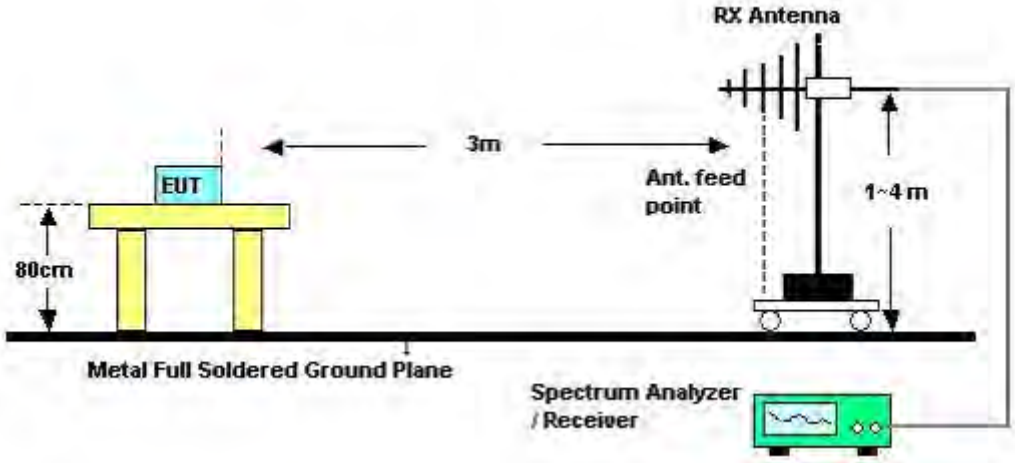
### 3.2.4 Test Setup

**Transmitter Radiated Unwanted Emissions**

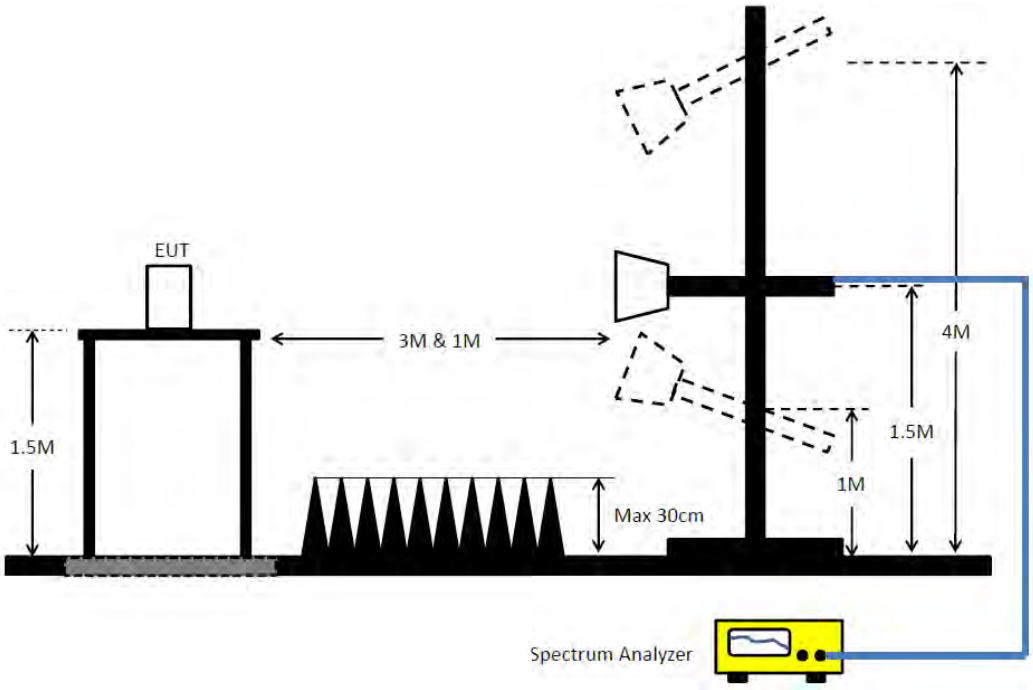
**9kHz ~30MHz**




**30MHz~1GHz**



**Above 1GHz**




### 3.2.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

### 3.2.6 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 10 harmonic or 40 GHz, whichever is appropriate.

### 3.2.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix B

# 4 Test Equipment and Calibration Data

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| 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) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Apr. 13, 2020 | Apr. 12, 2021 | Radiation (03CH05-CB) |
| Pre-Amplifier | EMCI | EMC330N | 980331 | 20MHz ~ 3GHz | May 01, 2019 | Apr. 30, 2020 | Radiation (03CH05-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100304 | 9kHz ~ 40GHz | Aug. 15, 2019 | Aug. 14, 2020 | Radiation (03CH05-CB) |
| EMI Test Receiver | R&S | ESCS | 826547/017 | 9kHz ~ 2.75GHz | May 15, 2019 | May 14, 2020 | Radiation (03CH05-CB) |
| RF Cable-low | Woken | RG402 | LOW Cable-04+23 | 30MHz~1GHz | Oct. 07, 2019 | Oct. 06, 2020 | Radiation (03CH05-CB) |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-1292 | 1GHz~18GHz | Jul. 17, 2019 | Jul. 16, 2020 | Radiation (03CH06-CB) |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170507 | 15GHz ~ 40GHz | Jun. 12, 2019 | Jun. 11, 2020 | Radiation (03CH06-CB) |
| Pre-Amplifier | Agilent | 83017A | MY53270064 | 0.5GHz ~ 26.5GHz | May 08, 2019 | May 07, 2020 | Radiation (03CH06-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-HG | 1864479 | 18GHz ~ 40GHz | Jul. 03, 2019 | Jul. 02, 2020 | Radiation (03CH06-CB) |
| Spectrum analyzer | R&S | FSP40 | 100080 | 9kHz~40GHz | Oct. 21, 2019 | Oct. 20, 2020 | Radiation (03CH06-CB) |
| RF Cable-high | HUBER+SUHNER | RG402 | High Cable-05 | 1GHz~18GHz | Oct. 07, 2019 | Oct. 06, 2020 | Radiation (03CH06-CB) |
| RF Cable-high | HUBER+SUHNER | RG402 | High Cable-05+24 | 1GHz~18GHz | Oct. 07, 2019 | Oct. 06, 2020 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 24, 2019 | Jul. 23, 2020 | Radiation (03CH06-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 24, 2019 | Jul. 23, 2020 | Radiation (03CH06-CB) |
| Spectrum analyzer | R&S | FSV40 | 101027 | 9kHz~40GHz | Jul. 02, 2019 | Jul. 01, 2020 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-06 | 1 GHz – 26.5 GHz | Oct. 07, 2019 | Oct. 06, 2020 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-07 | 1 GHz –26.5 GHz | Oct. 07, 2019 | Oct. 06, 2020 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-08 | 1 GHz –26.5 GHz | Oct. 07, 2019 | Oct. 06, 2020 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-09 | 1 GHz –26.5 GHz | Oct. 07, 2019 | Oct. 06, 2020 | Conducted (TH01-CB) |

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|---|---|---|---|---|---|---|---|
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz –26.5 GHz | Oct. 07, 2019 | Oct. 06, 2020 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-28 | 1 GHz –26.5 GHz | Nov. 18, 2019 | Nov. 17, 2020 | Conducted (TH01-CB) |
| Power Sensor | Agilent | E9327A | US40442088 | 50MHz~18GHz | Feb. 07, 2020 | Feb. 06, 2021 | Conducted (TH01-CB) |
| Power Meter | Agilent | E4416A | GB41291199 | 50MHz~18GHz | Feb. 07, 2020 | Feb. 06, 2021 | Conducted (TH01-CB) |

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

## Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 5.15-5.25GHz | 16.29 | 0.042560. |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | | |
| 5.25-5.35GHz | 16.07 | 0.040458 |

## Result

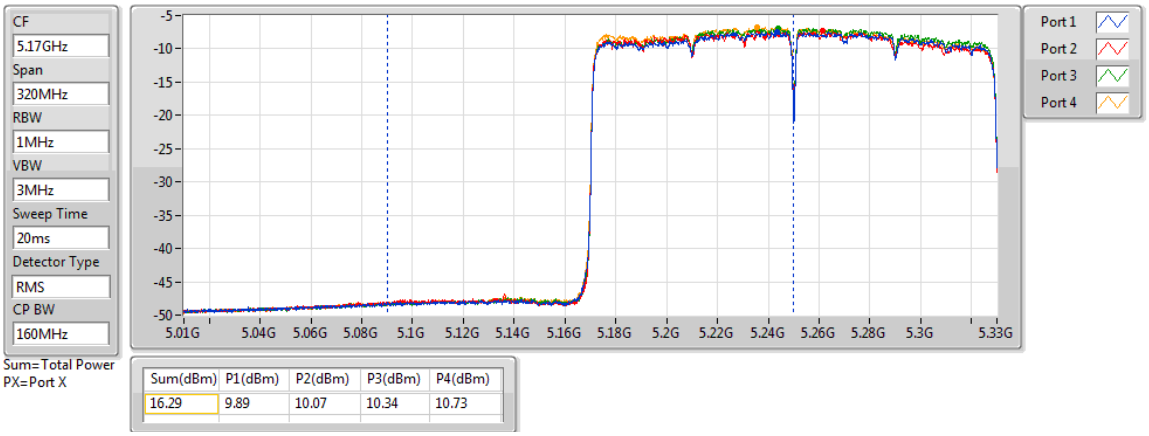
| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - |
| 5250MHz Straddle 5.15-5.25GHz | Pass | 5.80 | 9.89 | 10.07 | 10.34 | 10.73 | 16.29 | 30.00 |
| 5250MHz | Pass | 6.00 | 9.72 | 9.71 | 10.60 | 10.11 | 16.07 | 23.98 |

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

**802.11ax HEW160_Nss1,(MCS0)_4TX** **AV Power**

**5250MHz Straddle 5.15-5.25GHz**

28/02/2020

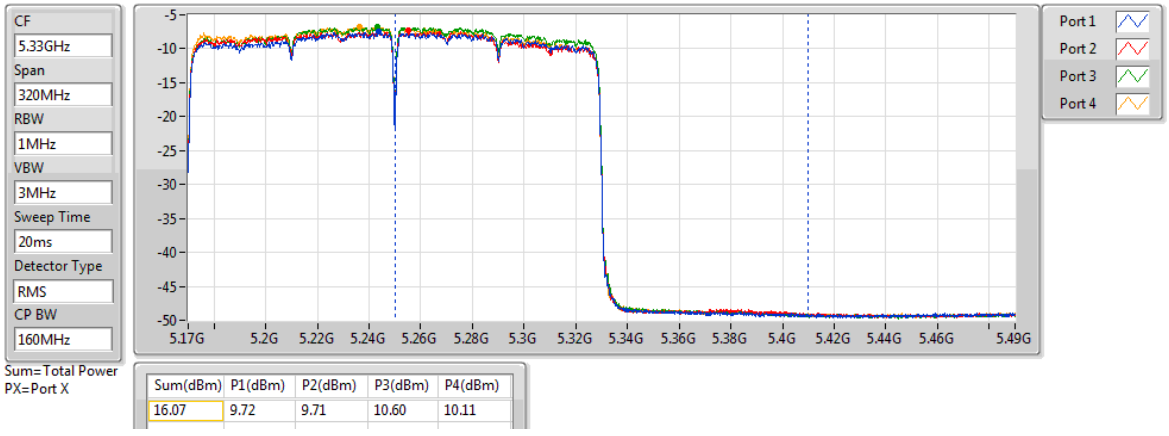



| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|---|---|---|---|---|
| 16.29 | 9.89 | 10.07 | 10.34 | 10.73 |

**802.11ax HEW160_Nss1,(MCS0)_4TX** **AV Power**

**5250MHz Straddle 5.25-5.35GHz**

28/02/2020




| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|---|---|---|---|---|
| 16.07 | 9.72 | 9.71 | 10.60 | 10.11 |

## Summary

| Mode | Total Power (dBm) | Total Power (W) |
|---|---|---|
| 5.725-5.85GHz | - | - |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | 26.46 | 0.44258 |

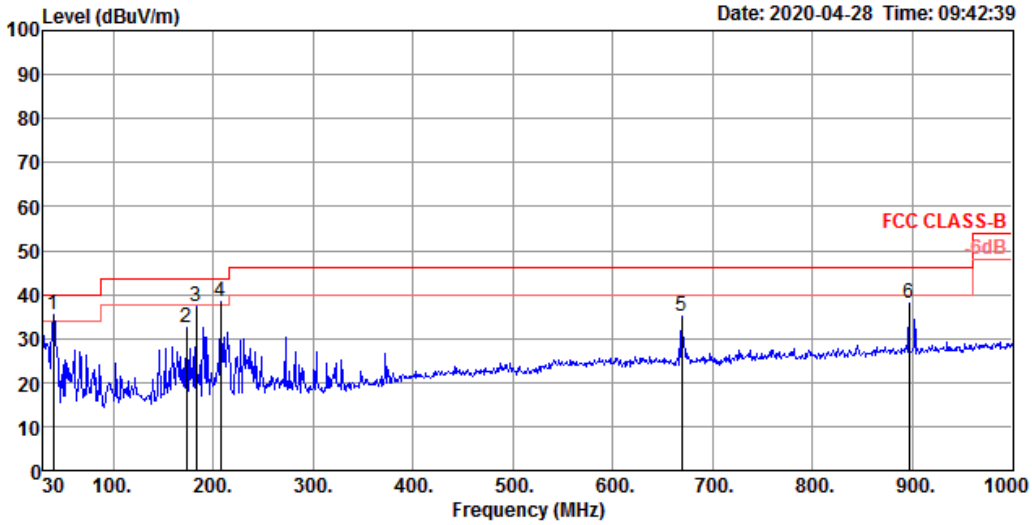
## Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) |
|---|---|---|---|---|---|---|---|---|
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - |
| 5775MHz | Pass | 5.00 | 20.28 | 20.65 | 20.24 | 20.57 | 26.46 | 30.00 |

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

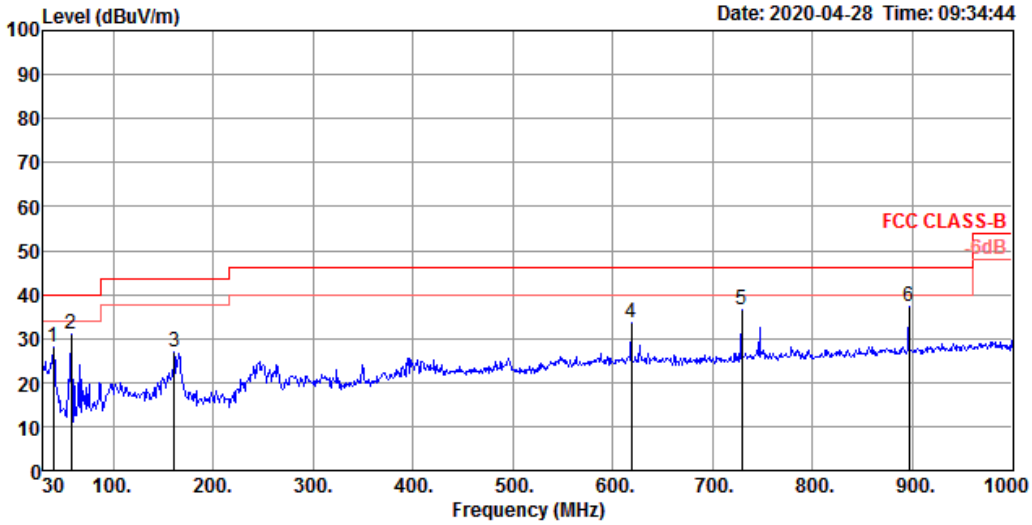
| Test Mode | Mode 1 | Frequency Range | 30 MHz to 1,000 MHz |
|---|---|---|---|

**Vertical 30 MHz to 1,000 MHz**




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 39.70 | 35.30 | 40.00 | -4.70 | 46.20 | 1.39 | 19.22 | 31.51 | 150 | 359 | Peak | VERTICAL |
| 2 | 173.56 | 32.39 | 43.50 | -11.11 | 47.02 | 1.87 | 15.44 | 31.94 | 300 | 116 | Peak | VERTICAL |
| 3 | 183.26 | 37.32 | 43.50 | -6.18 | 52.35 | 1.92 | 15.03 | 31.98 | 300 | 110 | Peak | VERTICAL |
| 4 | 207.51 | 38.47 | 43.50 | -5.03 | 53.64 | 2.03 | 14.76 | 31.96 | 300 | 97 | Peak | VERTICAL |
| 5 | 669.23 | 35.17 | 46.00 | -10.83 | 39.59 | 3.68 | 24.42 | 32.52 | 100 | 360 | Peak | VERTICAL |
| 6 | 896.21 | 37.87 | 46.00 | -8.13 | 39.82 | 4.57 | 25.89 | 32.41 | 200 | 144 | Peak | VERTICAL |

**Horizontal 30 MHz to 1,000 MHz**




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 39.70 | 28.02 | 40.00 | -11.98 | 38.92 | 1.39 | 19.22 | 31.51 | 150 | 51 | Peak | HORIZONTAL |
| 2 | 58.13 | 30.91 | 40.00 | -9.09 | 48.77 | 1.16 | 12.81 | 31.83 | 125 | 244 | Peak | HORIZONTAL |
| 3 | 160.95 | 26.80 | 43.50 | -16.70 | 39.89 | 1.81 | 16.93 | 31.83 | 150 | 168 | Peak | HORIZONTAL |
| 4 | 618.79 | 33.44 | 46.00 | -12.56 | 38.05 | 3.54 | 24.24 | 32.39 | 100 | 5 | Peak | HORIZONTAL |
| 5 | 729.37 | 36.58 | 46.00 | -9.42 | 40.23 | 3.92 | 24.82 | 32.39 | 100 | 340 | Peak | HORIZONTAL |
| 6 | 896.21 | 37.17 | 46.00 | -8.83 | 39.12 | 4.57 | 25.89 | 32.41 | 300 | 71 | Peak | HORIZONTAL |

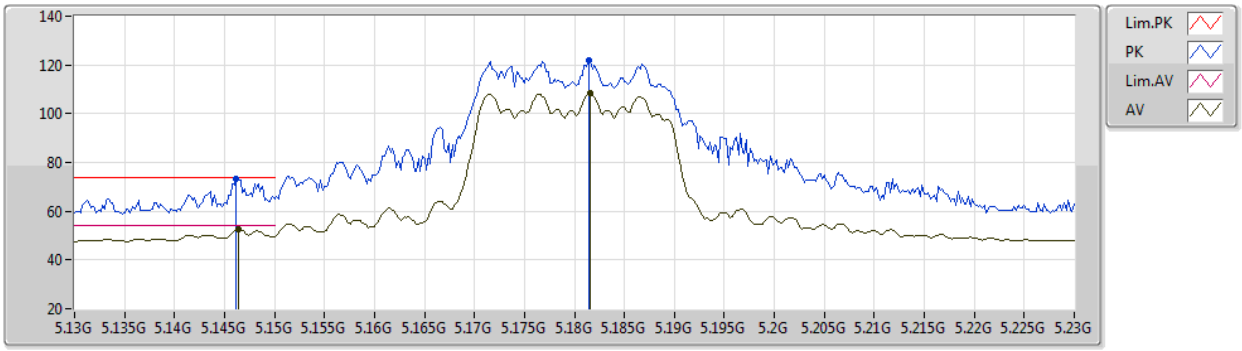
## Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.25-5.35GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | Pass | AV | 5.3564G | 53.97 | 54.00 | -0.03 | 3 | Vertical | 40 | 1.80 | - |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

27/02/2020

### 5180MHz_TX



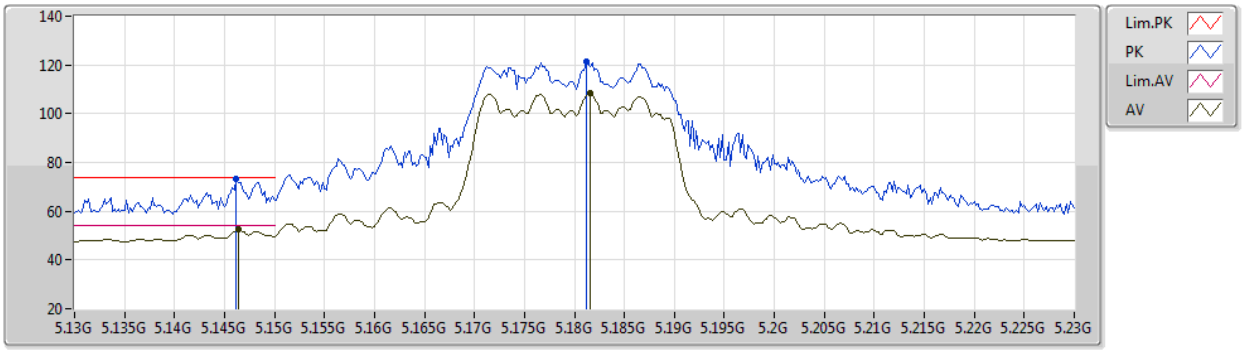

EUT Y_4TX
Setting 83
03-A-A-10

| 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 | 5.1462G | 73.33 | 74.00 | -0.67 | 67.32 | 3 | Vertical | 306 | 2.45 | - | 34.05 | 6.73 | 34.77 |
| AV | 5.1464G | 52.39 | 54.00 | -1.61 | 46.38 | 3 | Vertical | 306 | 2.45 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.1814G | 121.70 | Inf | -Inf | 115.66 | 3 | Vertical | 306 | 2.45 | - | 34.08 | 6.76 | 34.80 |
| AV | 5.1816G | 108.20 | Inf | -Inf | 102.16 | 3 | Vertical | 306 | 2.45 | - | 34.08 | 6.76 | 34.80 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

27/02/2020

## 5180MHz_TX



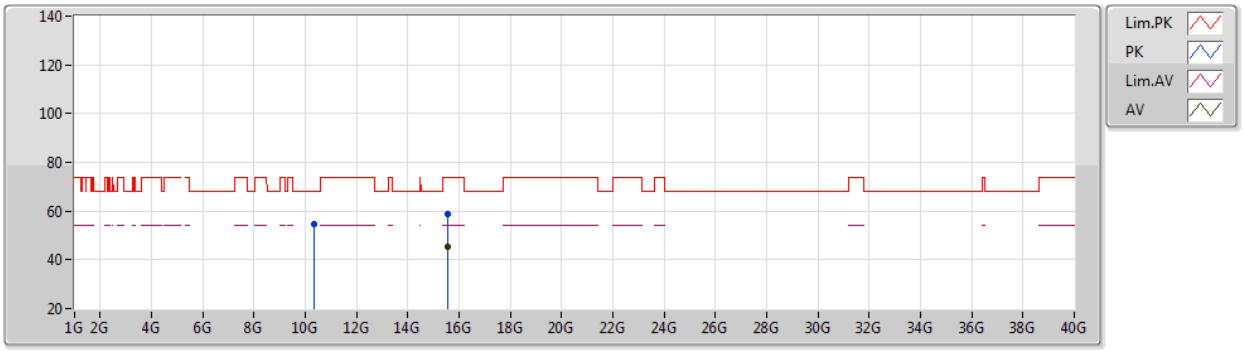

EUT Y_4TX
Setting 83
03-A-A-10

| 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 | 5.1462G | 73.12 | 74.00 | -0.88 | 67.11 | 3 | Horizontal | 306 | 2.47 | - | 34.05 | 6.73 | 34.77 |
| AV | 5.1464G | 52.53 | 54.00 | -1.47 | 46.52 | 3 | Horizontal | 306 | 2.47 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.1812G | 121.52 | Inf | -Inf | 115.48 | 3 | Horizontal | 306 | 2.47 | - | 34.08 | 6.76 | 34.80 |
| AV | 5.1816G | 108.23 | Inf | -Inf | 102.19 | 3 | Horizontal | 306 | 2.47 | - | 34.08 | 6.76 | 34.80 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

27/02/2020

## 5180MHz_TX



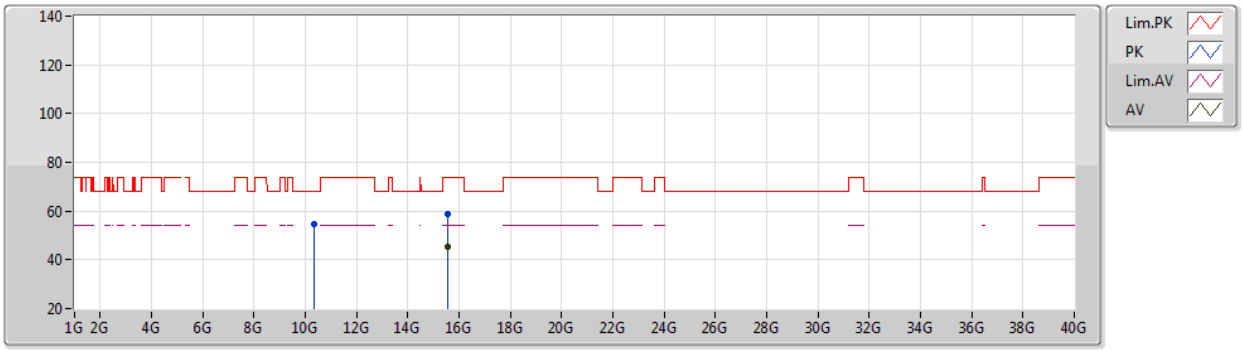

EUT Y_4TX
Setting 83
03-A-A-10

| 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 | 10.36232G | 54.83 | 68.20 | -13.37 | 41.44 | 3 | Vertical | 48 | 1.89 | - | 38.37 | 10.00 | 34.98 |
| PK | 15.54164G | 58.80 | 74.00 | -15.20 | 43.09 | 3 | Vertical | 36 | 2.42 | - | 38.88 | 11.63 | 34.80 |
| AV | 15.54169G | 45.19 | 54.00 | -8.81 | 29.49 | 3 | Vertical | 36 | 2.42 | - | 38.87 | 11.63 | 34.80 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

27/02/2020

## 5180MHz_TX



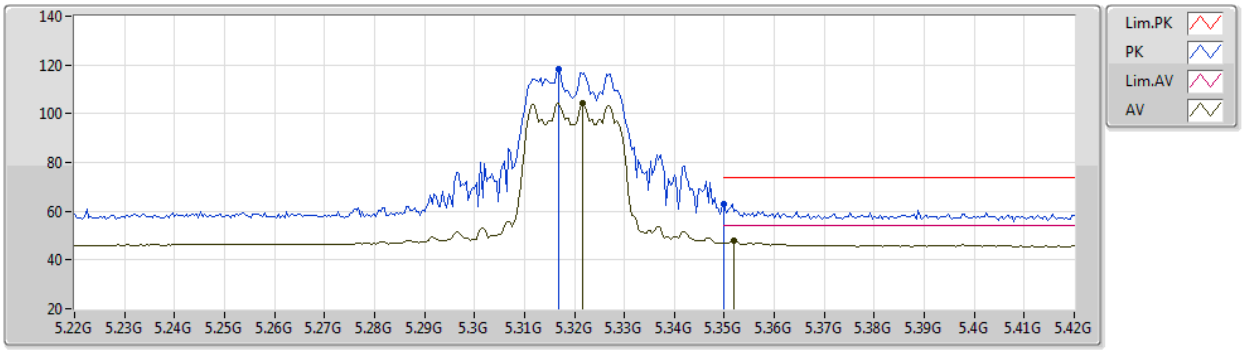

EUT Y_4TX
Setting 83
03-A-A-10

| 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 | 10.36177G | 54.52 | 68.20 | -13.68 | 41.13 | 3 | Horizontal | 244 | 1.61 | - | 38.37 | 10.00 | 34.98 |
| PK | 15.53776G | 58.92 | 74.00 | -15.08 | 43.21 | 3 | Horizontal | 27 | 1.70 | - | 38.89 | 11.62 | 34.80 |
| AV | 15.542G | 45.23 | 54.00 | -8.77 | 29.53 | 3 | Horizontal | 27 | 1.70 | - | 38.87 | 11.63 | 34.80 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

27/02/2020

## 5320MHz_TX



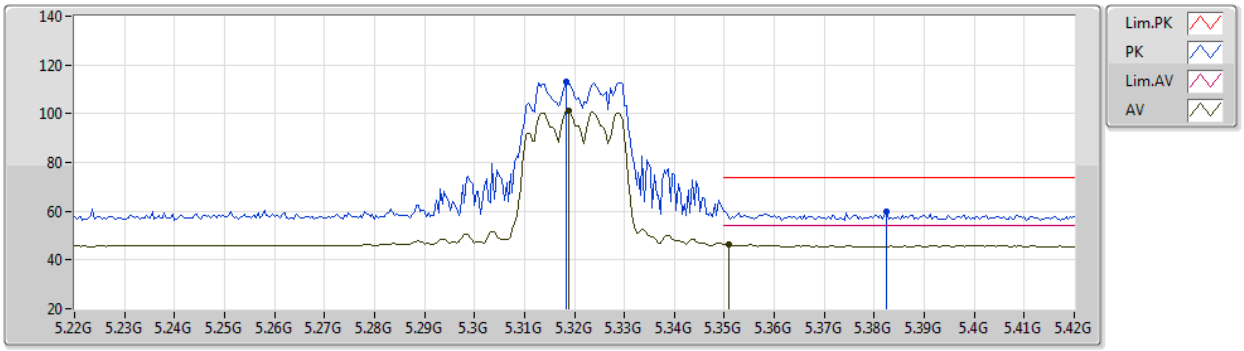

EUT Y_4TX
Setting 71
03-A-A-10

| 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 | 5.3168G | 118.19 | Inf | -Inf | 111.89 | 3 | Vertical | 307 | 2.40 | - | 34.32 | 6.87 | 34.89 |
| AV | 5.3216G | 104.28 | Inf | -Inf | 97.98 | 3 | Vertical | 307 | 2.40 | - | 34.32 | 6.88 | 34.90 |
| PK | 5.35G | 62.98 | 74.00 | -11.02 | 56.65 | 3 | Vertical | 307 | 2.40 | - | 34.35 | 6.90 | 34.92 |
| AV | 5.352G | 47.82 | 54.00 | -6.18 | 41.49 | 3 | Vertical | 307 | 2.40 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5320MHz_TX

27/02/2020



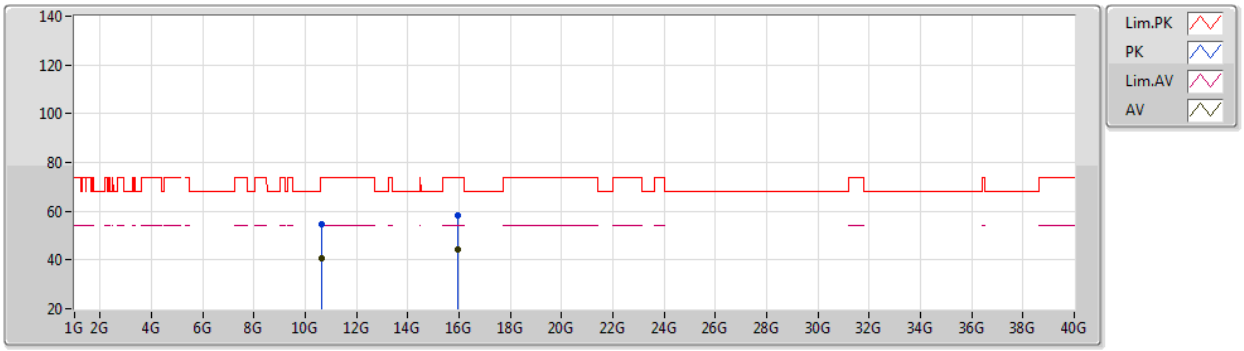

EUT Y_4TX
Setting 71
03-A-A-10

| 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 | 5.3184G | 113.08 | Inf | -Inf | 106.78 | 3 | Horizontal | 66 | 2.78 | - | 34.32 | 6.87 | 34.89 |
| AV | 5.3188G | 101.41 | Inf | -Inf | 95.11 | 3 | Horizontal | 66 | 2.78 | - | 34.32 | 6.87 | 34.89 |
| PK | 5.3824G | 59.64 | 74.00 | -14.36 | 53.28 | 3 | Horizontal | 66 | 2.78 | - | 34.38 | 6.92 | 34.94 |
| AV | 5.3508G | 46.37 | 54.00 | -7.63 | 40.04 | 3 | Horizontal | 66 | 2.78 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5320MHz_TX

27/02/2020



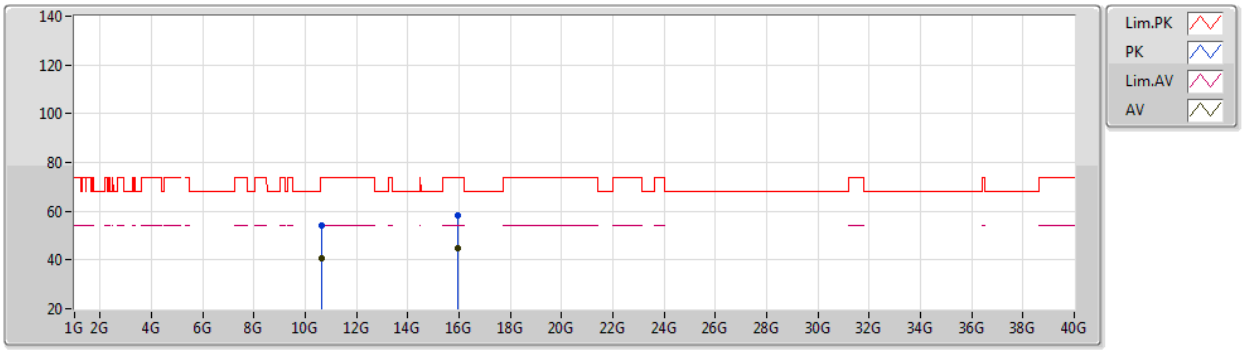

EUT Y_4TX
Setting 71
03-A-A-10

| 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 | 10.6294G | 54.53 | 74.00 | -19.47 | 40.88 | 3 | Vertical | 213 | 1.20 | - | 38.43 | 10.04 | 34.82 |
| AV | 10.6545G | 40.81 | 54.00 | -13.19 | 27.14 | 3 | Vertical | 213 | 1.20 | - | 38.43 | 10.04 | 34.80 |
| PK | 15.9359G | 58.30 | 74.00 | -15.70 | 44.01 | 3 | Vertical | 236 | 2.77 | - | 37.69 | 11.83 | 35.23 |
| AV | 15.935G | 44.37 | 54.00 | -9.63 | 30.08 | 3 | Vertical | 236 | 2.77 | - | 37.69 | 11.83 | 35.23 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5320MHz_TX

27/02/2020



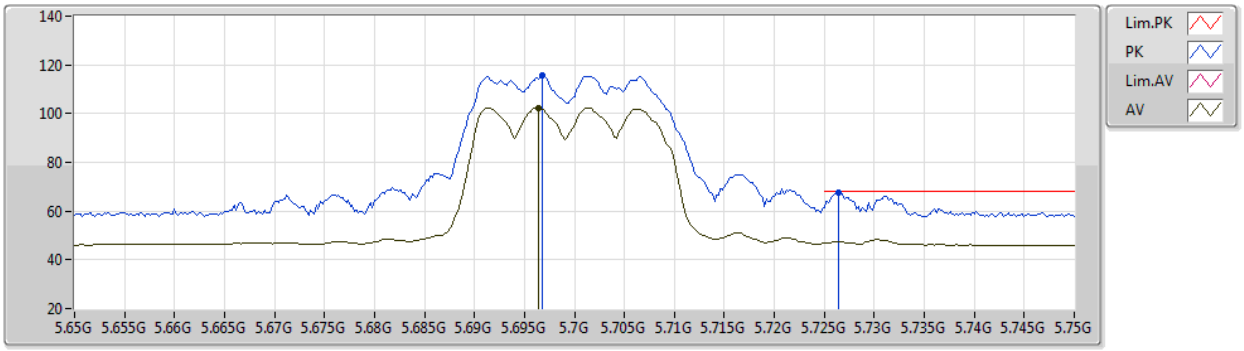

EUT Y_4TX
Setting 71
03-A-A-10

| 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 | 10.632G | 54.24 | 74.00 | -19.76 | 40.58 | 3 | Horizontal | 191 | 1.48 | - | 38.43 | 10.04 | 34.81 |
| AV | 10.6546G | 40.71 | 54.00 | -13.29 | 27.04 | 3 | Horizontal | 191 | 1.48 | - | 38.43 | 10.04 | 34.80 |
| PK | 15.9646G | 58.21 | 74.00 | -15.79 | 44.02 | 3 | Horizontal | 236 | 1.16 | - | 37.61 | 11.84 | 35.26 |
| AV | 15.9352G | 44.89 | 54.00 | -9.11 | 30.60 | 3 | Horizontal | 236 | 1.16 | - | 37.69 | 11.83 | 35.23 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5700MHz_TX

27/02/2020



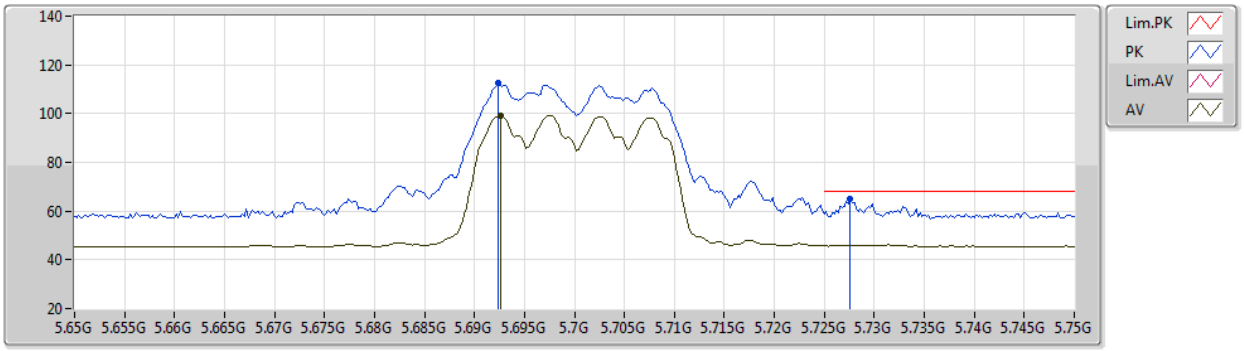

EUT Y_4TX
Setting 68
03-A-A-10

| 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 | 5.6968G | 115.63 | Inf | -Inf | 109.25 | 3 | Vertical | 159 | 2.33 | - | 34.30 | 7.03 | 34.95 |
| AV | 5.6964G | 102.45 | Inf | -Inf | 96.07 | 3 | Vertical | 159 | 2.33 | - | 34.30 | 7.03 | 34.95 |
| PK | 5.7264G | 67.83 | 68.20 | -0.37 | 61.44 | 3 | Vertical | 159 | 2.33 | - | 34.30 | 7.03 | 34.94 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5700MHz_TX

27/02/2020



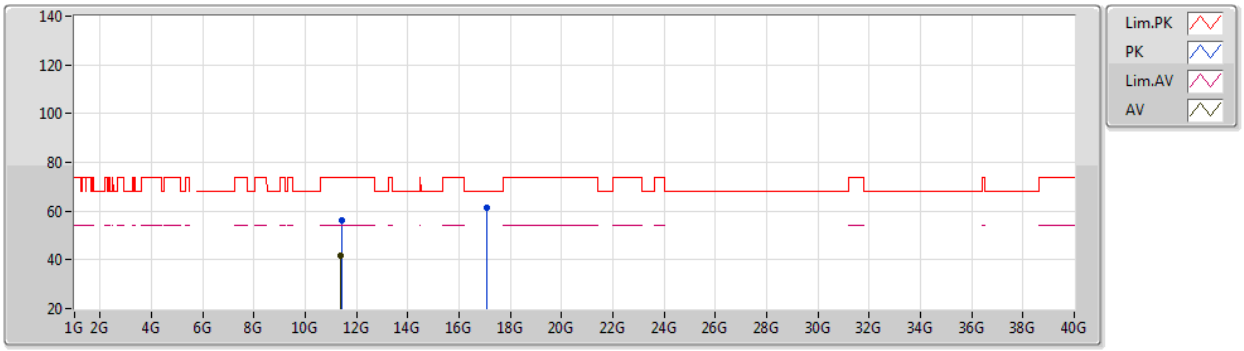

EUT Y_4TX
Setting 68
03-A-A-10

| 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 | 5.6924G | 112.34 | Inf | -Inf | 105.95 | 3 | Horizontal | 95 | 2.92 | - | 34.31 | 7.03 | 34.95 |
| AV | 5.6926G | 99.21 | Inf | -Inf | 92.82 | 3 | Horizontal | 95 | 2.92 | - | 34.31 | 7.03 | 34.95 |
| PK | 5.7276G | 64.91 | 68.20 | -3.29 | 58.52 | 3 | Horizontal | 95 | 2.92 | - | 34.30 | 7.03 | 34.94 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5700MHz_TX

27/02/2020



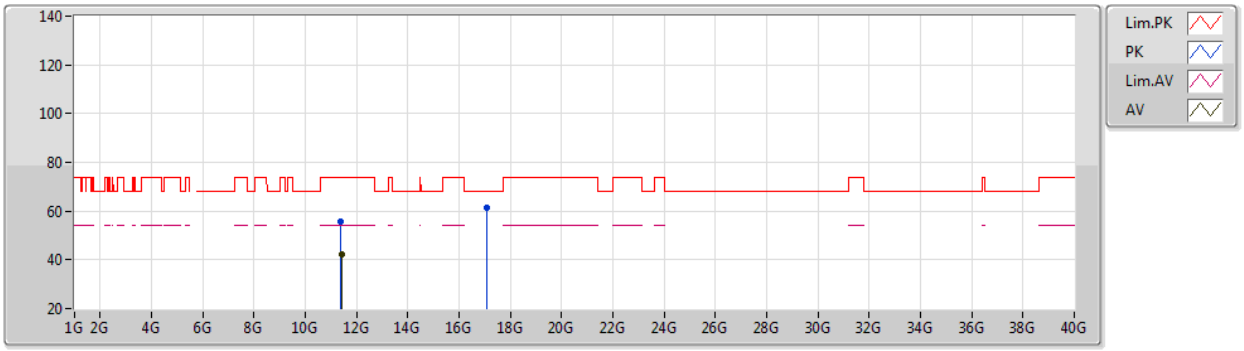

EUT Y_4TX
Setting 68
03-A-A-10

| 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 | 11.40496G | 56.14 | 74.00 | -17.86 | 41.87 | 3 | Vertical | 339 | 1.04 | - | 38.78 | 10.15 | 34.66 |
| AV | 11.39952G | 41.95 | 54.00 | -12.05 | 27.68 | 3 | Vertical | 339 | 1.04 | - | 38.78 | 10.15 | 34.66 |
| PK | 17.10112G | 61.19 | 68.20 | -7.01 | 43.30 | 3 | Vertical | 337 | 1.72 | - | 40.42 | 12.05 | 34.58 |

## 802.11ax HEW20_Nss1,(MCS0)_4TX

## 5700MHz_TX

27/02/2020



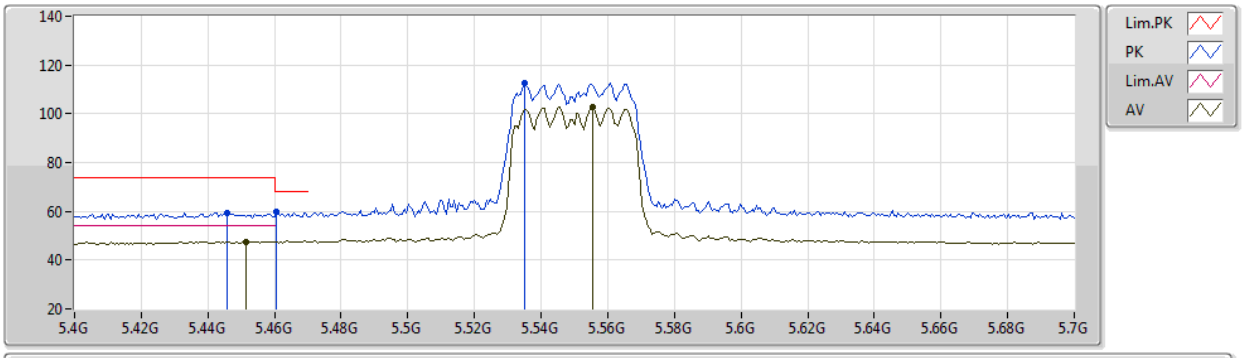

EUT Y_4TX
Setting 68
03-A-A-10

| 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 | 11.39676G | 55.91 | 74.00 | -18.09 | 41.64 | 3 | Horizontal | 304 | 1.00 | - | 38.78 | 10.15 | 34.66 |
| AV | 11.40176G | 42.06 | 54.00 | -11.94 | 27.79 | 3 | Horizontal | 304 | 1.00 | - | 38.78 | 10.15 | 34.66 |
| PK | 17.09624G | 61.44 | 68.20 | -6.76 | 43.58 | 3 | Horizontal | 88 | 2.73 | - | 40.39 | 12.05 | 34.58 |

## 802.11ac VHT40_Nss1,(MCS0)_4TX

27/02/2020

## 5550MHz_TX



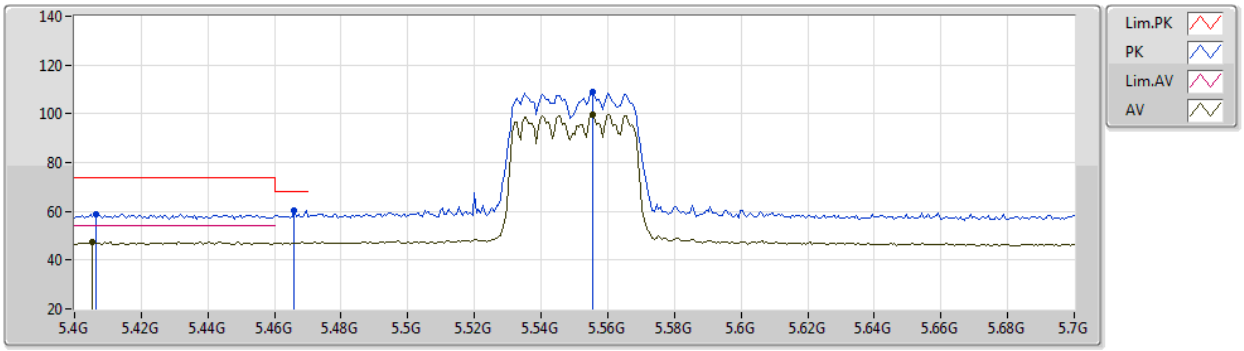

EUT Y_4TX
Setting 73
03-A-A-10

| 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 | 5.4456G | 59.49 | 74.00 | -14.51 | 53.05 | 3 | Vertical | 154 | 1.71 | - | 34.45 | 6.97 | 34.98 |
| AV | 5.4516G | 47.67 | 54.00 | -6.33 | 41.23 | 3 | Vertical | 154 | 1.71 | - | 34.45 | 6.97 | 34.98 |
| PK | 5.4606G | 59.74 | 68.20 | -8.46 | 53.29 | 3 | Vertical | 154 | 1.71 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.535G | 112.41 | Inf | -Inf | 105.94 | 3 | Vertical | 154 | 1.71 | - | 34.46 | 7.01 | 35.00 |
| AV | 5.5554G | 102.82 | Inf | -Inf | 96.35 | 3 | Vertical | 154 | 1.71 | - | 34.44 | 7.02 | 34.99 |

## 802.11ac VHT40_Nss1,(MCS0)_4TX

27/02/2020

## 5550MHz_TX



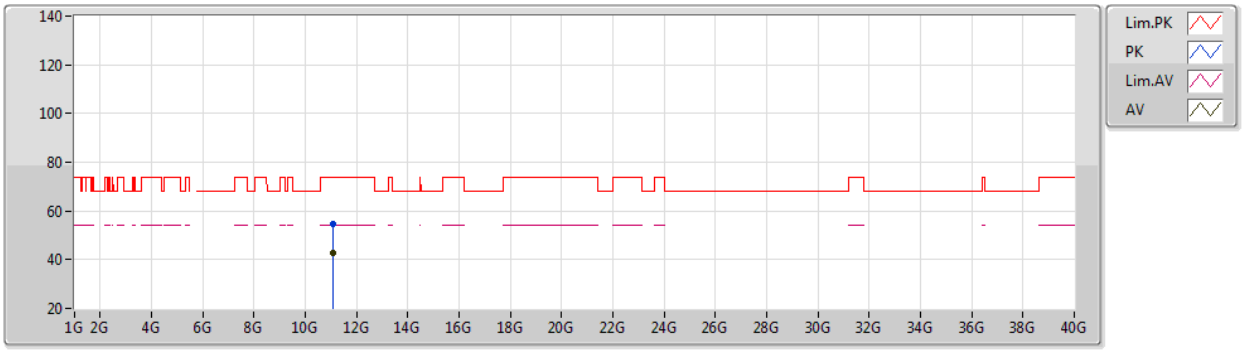

EUT Y_4TX
Setting 73
03-A-A-10

| 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 | 5.4066G | 58.95 | 74.00 | -15.05 | 52.55 | 3 | Horizontal | 164 | 2.15 | - | 34.41 | 6.94 | 34.95 |
| AV | 5.4054G | 47.33 | 54.00 | -6.67 | 40.94 | 3 | Horizontal | 164 | 2.15 | - | 34.41 | 6.93 | 34.95 |
| PK | 5.466G | 60.39 | 68.20 | -7.81 | 53.93 | 3 | Horizontal | 164 | 2.15 | - | 34.47 | 6.98 | 34.99 |
| PK | 5.5554G | 108.82 | Inf | -Inf | 102.35 | 3 | Horizontal | 164 | 2.15 | - | 34.44 | 7.02 | 34.99 |
| AV | 5.5554G | 99.81 | Inf | -Inf | 93.34 | 3 | Horizontal | 164 | 2.15 | - | 34.44 | 7.02 | 34.99 |

## 802.11ac VHT40_Nss1,(MCS0)_4TX

27/02/2020

## 5550MHz_TX



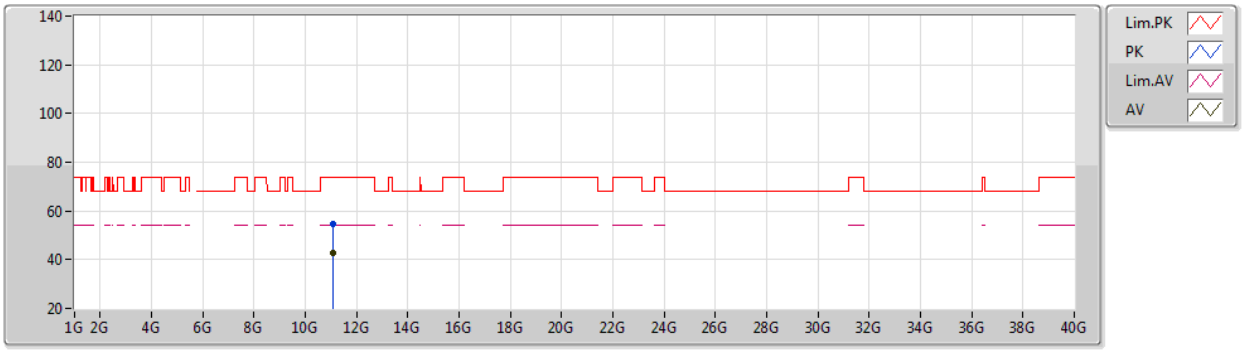

EUT Y_4TX
Setting 73
03-A-A-10

| 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 | 11.1G | 54.80 | 74.00 | -19.20 | 40.73 | 3 | Vertical | 12 | 1.60 | - | 38.57 | 10.11 | 34.61 |
| AV | 11.1G | 42.67 | 54.00 | -11.33 | 28.60 | 3 | Vertical | 12 | 1.60 | - | 38.57 | 10.11 | 34.61 |

## 802.11ac VHT40_Nss1,(MCS0)_4TX

27/02/2020

## 5550MHz_TX



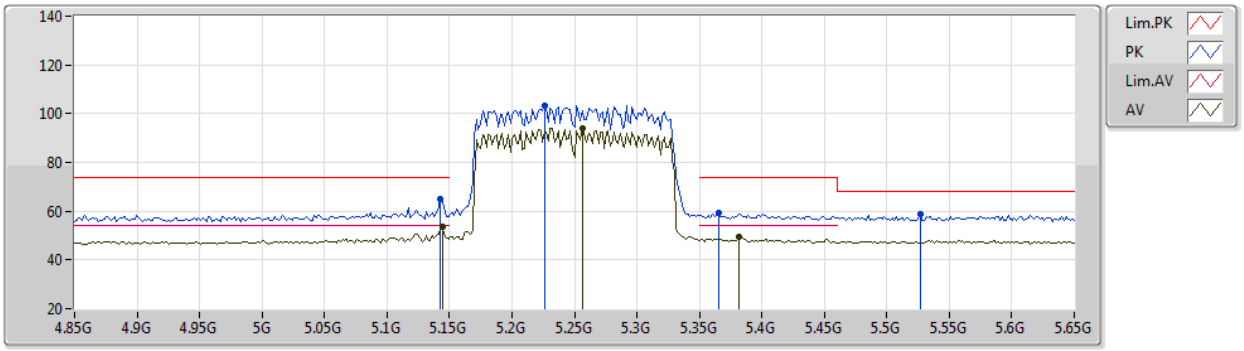

EUT Y_4TX
Setting 73
03-A-A-10

| 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 | 11.1G | 54.88 | 74.00 | -19.12 | 40.81 | 3 | Horizontal | 242 | 2.19 | - | 38.57 | 10.11 | 34.61 |
| AV | 11.1G | 42.77 | 54.00 | -11.23 | 28.70 | 3 | Horizontal | 242 | 2.19 | - | 38.57 | 10.11 | 34.61 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

27/02/2020

## 5250MHz Straddle 5.25-5.35GHz_TX



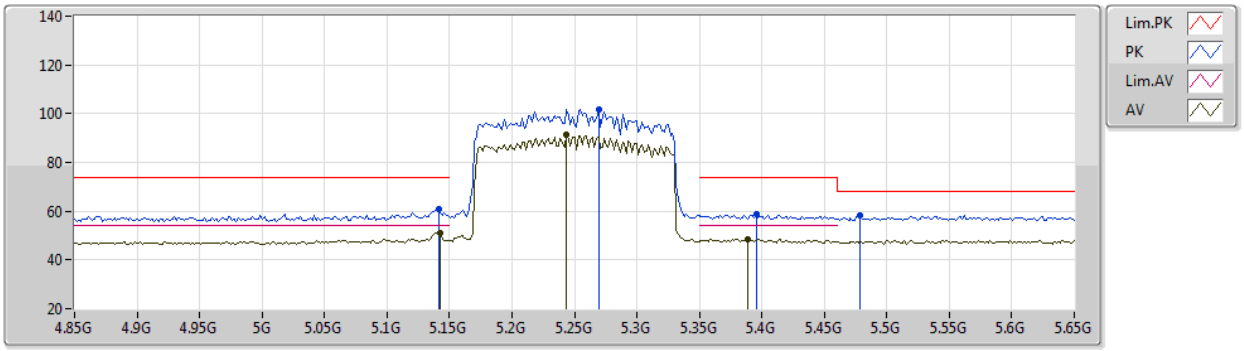

EUT Y_4TX
Setting 44
03-A-A-10

| 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 | 5.1428G | 65.16 | 74.00 | -8.84 | 59.16 | 3 | Vertical | 305 | 2.37 | - | 34.04 | 6.73 | 34.77 |
| AV | 5.1444G | 53.80 | 54.00 | -0.20 | 47.80 | 3 | Vertical | 305 | 2.37 | - | 34.04 | 6.73 | 34.77 |
| PK | 5.226G | 103.39 | Inf | -Inf | 97.28 | 3 | Vertical | 305 | 2.37 | - | 34.15 | 6.79 | 34.83 |
| AV | 5.2564G | 93.83 | Inf | -Inf | 87.65 | 3 | Vertical | 305 | 2.37 | - | 34.21 | 6.82 | 34.85 |
| PK | 5.3652G | 59.32 | 74.00 | -14.68 | 52.97 | 3 | Vertical | 305 | 2.37 | - | 34.37 | 6.91 | 34.93 |
| AV | 5.3812G | 49.65 | 54.00 | -4.35 | 43.29 | 3 | Vertical | 305 | 2.37 | - | 34.38 | 6.92 | 34.94 |
| PK | 5.5268G | 58.65 | 68.20 | -9.55 | 52.17 | 3 | Vertical | 305 | 2.37 | - | 34.47 | 7.01 | 35.00 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

## 5250MHz Straddle 5.25-5.35GHz_TX

27/02/2020



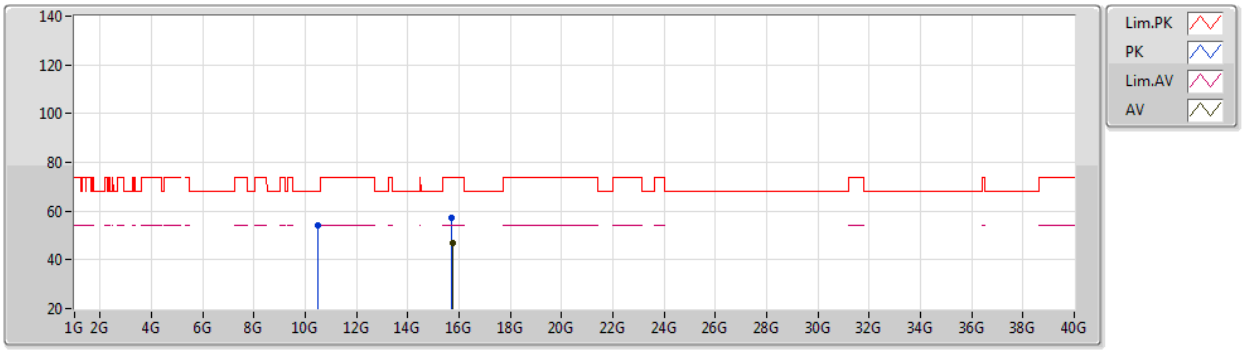

EUT Y_4TX
Setting 44
03-A-A-10

| 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 | 5.1412G | 60.76 | 74.00 | -13.24 | 54.76 | 3 | Horizontal | 60 | 2.83 | - | 34.04 | 6.73 | 34.77 |
| AV | 5.1428G | 50.98 | 54.00 | -3.02 | 44.98 | 3 | Horizontal | 60 | 2.83 | - | 34.04 | 6.73 | 34.77 |
| PK | 5.2692G | 101.85 | Inf | -Inf | 95.64 | 3 | Horizontal | 60 | 2.83 | - | 34.24 | 6.83 | 34.86 |
| AV | 5.2436G | 91.36 | Inf | -Inf | 85.20 | 3 | Horizontal | 60 | 2.83 | - | 34.19 | 6.81 | 34.84 |
| PK | 5.3956G | 58.59 | 74.00 | -15.41 | 52.21 | 3 | Horizontal | 60 | 2.83 | - | 34.40 | 6.93 | 34.95 |
| AV | 5.3892G | 48.35 | 54.00 | -5.65 | 41.98 | 3 | Horizontal | 60 | 2.83 | - | 34.39 | 6.92 | 34.94 |
| PK | 5.4788G | 58.27 | 68.20 | -9.93 | 51.80 | 3 | Horizontal | 60 | 2.83 | - | 34.48 | 6.99 | 35.00 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

## 5250MHz Straddle 5.25-5.35GHz_TX

27/02/2020



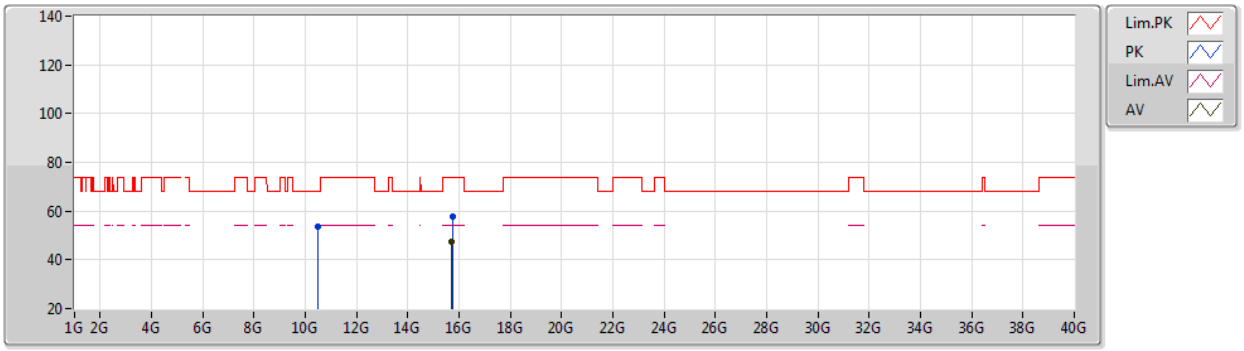

EUT Y_4TX
Setting 44
03-A-A-10

| 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 | 10.4916G | 54.30 | 68.20 | -13.90 | 40.78 | 3 | Vertical | 13 | 2.11 | - | 38.40 | 10.02 | 34.90 |
| PK | 15.7272G | 57.19 | 74.00 | -16.81 | 42.15 | 3 | Vertical | 233 | 1.14 | - | 38.32 | 11.72 | 35.00 |
| AV | 15.7401G | 46.86 | 54.00 | -7.14 | 31.87 | 3 | Vertical | 233 | 1.14 | - | 38.28 | 11.73 | 35.02 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

## 5250MHz Straddle 5.25-5.35GHz_TX

27/02/2020



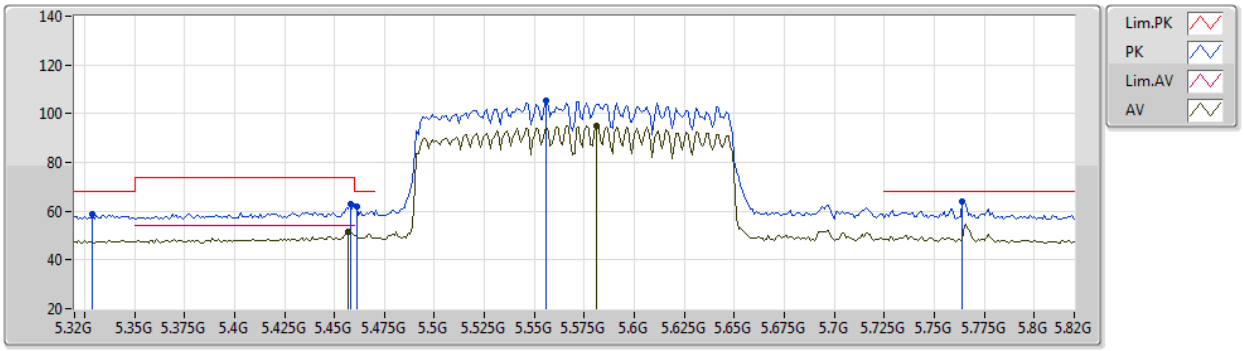

EUT Y_4TX
Setting 44
03-A-A-10

| 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 | 10.4905G | 53.57 | 68.20 | -14.63 | 40.05 | 3 | Horizontal | 108 | 2.66 | - | 38.40 | 10.02 | 34.90 |
| PK | 15.7413G | 57.86 | 74.00 | -16.14 | 42.87 | 3 | Horizontal | 302 | 1.43 | - | 38.28 | 11.73 | 35.02 |
| AV | 15.7289G | 47.42 | 54.00 | -6.58 | 32.39 | 3 | Horizontal | 302 | 1.43 | - | 38.31 | 11.72 | 35.00 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

## 5570MHz_TX

27/02/2020



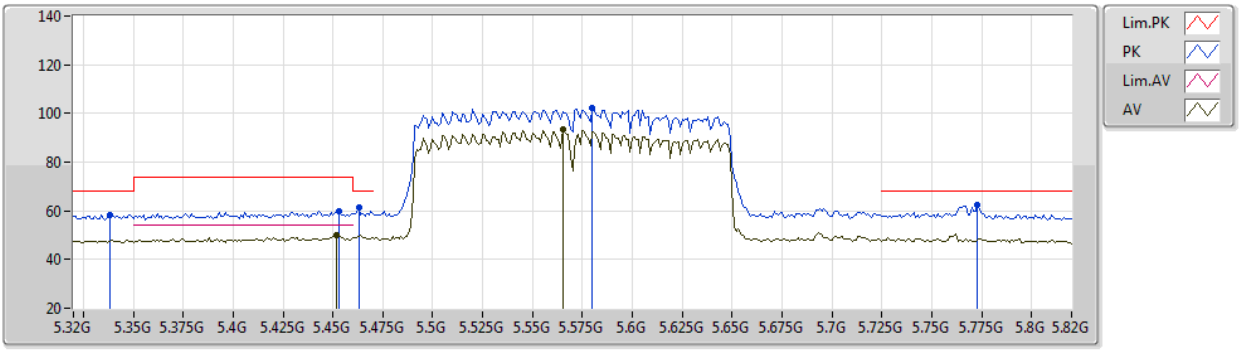

EUT Y_4TX
Setting 64
03-A-A-10

| 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 | 5.329G | 58.91 | 68.20 | -9.29 | 52.60 | 3 | Vertical | 338 | 1.78 | - | 34.33 | 6.88 | 34.90 |
| PK | 5.458G | 62.76 | 74.00 | -11.24 | 56.30 | 3 | Vertical | 338 | 1.78 | - | 34.46 | 6.98 | 34.98 |
| PK | 5.461G | 61.64 | 68.20 | -6.56 | 55.19 | 3 | Vertical | 338 | 1.78 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.556G | 105.41 | Inf | -Inf | 98.94 | 3 | Vertical | 338 | 1.78 | - | 34.44 | 7.02 | 34.99 |
| AV | 5.581G | 95.15 | Inf | -Inf | 88.70 | 3 | Vertical | 338 | 1.78 | - | 34.42 | 7.02 | 34.99 |
| PK | 5.764G | 64.10 | 68.20 | -4.10 | 57.70 | 3 | Vertical | 338 | 1.78 | - | 34.30 | 7.04 | 34.94 |
| AV | 5.457G | 51.63 | 54.00 | -2.37 | 45.17 | 3 | Vertical | 338 | 1.78 | - | 34.46 | 6.98 | 34.98 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

## 5570MHz_TX

27/02/2020



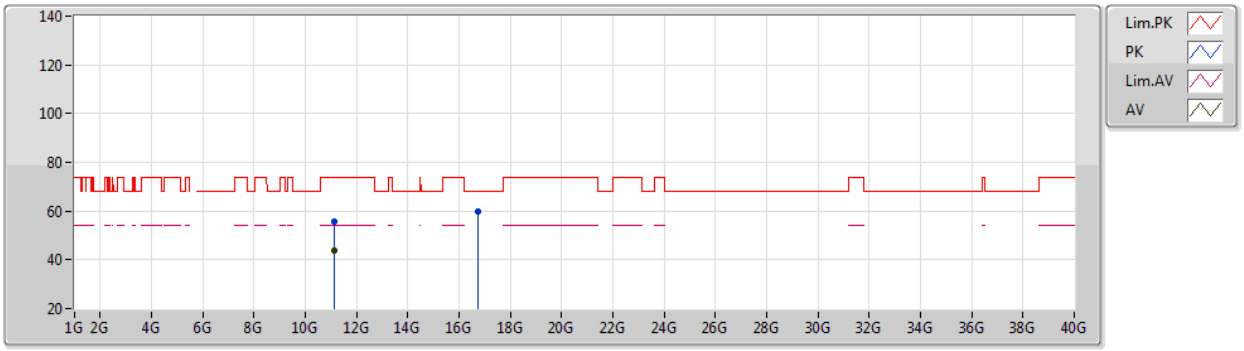

EUT Y_4TX
Setting 64
03-A-A-10

| 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 | 5.338G | 58.26 | 68.20 | -9.94 | 51.94 | 3 | Horizontal | 162 | 2.25 | - | 34.34 | 6.89 | 34.91 |
| PK | 5.453G | 59.95 | 74.00 | -14.05 | 53.51 | 3 | Horizontal | 162 | 2.25 | - | 34.45 | 6.97 | 34.98 |
| PK | 5.463G | 61.19 | 68.20 | -7.01 | 54.74 | 3 | Horizontal | 162 | 2.25 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.58G | 102.34 | Inf | -Inf | 95.89 | 3 | Horizontal | 162 | 2.25 | - | 34.42 | 7.02 | 34.99 |
| AV | 5.565G | 93.22 | Inf | -Inf | 86.75 | 3 | Horizontal | 162 | 2.25 | - | 34.44 | 7.02 | 34.99 |
| PK | 5.773G | 62.31 | 68.20 | -5.89 | 55.91 | 3 | Horizontal | 162 | 2.25 | - | 34.30 | 7.04 | 34.94 |
| AV | 5.452G | 50.07 | 54.00 | -3.93 | 43.63 | 3 | Horizontal | 162 | 2.25 | - | 34.45 | 6.97 | 34.98 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

27/02/2020

## 5570MHz_TX



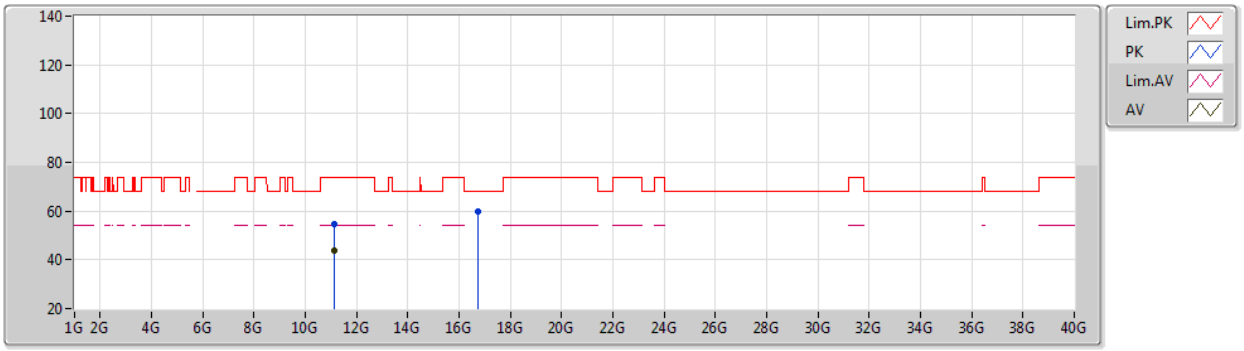

EUT Y_4TX
Setting 64
03-A-A-10

| 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 | 11.1524G | 55.52 | 74.00 | -18.48 | 41.41 | 3 | Vertical | 128 | 2.68 | - | 38.61 | 10.12 | 34.62 |
| AV | 11.1255G | 43.82 | 54.00 | -10.18 | 29.72 | 3 | Vertical | 128 | 2.68 | - | 38.59 | 10.12 | 34.61 |
| PK | 16.7346G | 59.77 | 68.20 | -8.43 | 43.31 | 3 | Vertical | 221 | 2.09 | - | 39.26 | 11.98 | 34.78 |

## 802.11ax HEW160_Nss1,(MCS0)_4TX

## 5570MHz_TX

27/02/2020



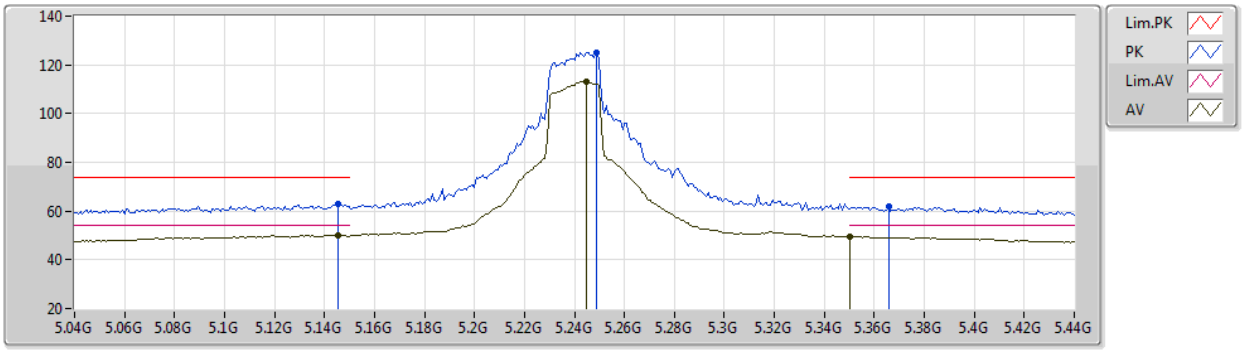

EUT Y_4TX
Setting 64
03-A-A-10

| 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 | 11.137G | 54.58 | 74.00 | -19.42 | 40.47 | 3 | Horizontal | 138 | 1.83 | - | 38.60 | 10.12 | 34.61 |
| AV | 11.1182G | 43.99 | 54.00 | -10.01 | 29.90 | 3 | Horizontal | 138 | 1.83 | - | 38.58 | 10.12 | 34.61 |
| PK | 16.7138G | 59.91 | 68.20 | -8.29 | 43.52 | 3 | Horizontal | 239 | 2.49 | - | 39.21 | 11.97 | 34.79 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5240MHz_TX



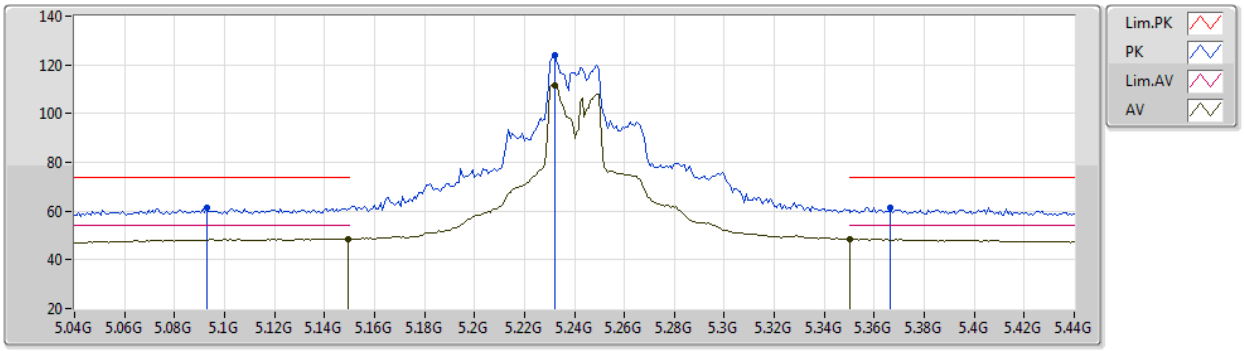

EUT Y_4TX
Setting 98
03-A-B-2-10

| 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 | 5.1456G | 63.03 | 74.00 | -10.97 | 57.02 | 3 | Vertical | 157 | 1.80 | - | 34.05 | 6.73 | 34.77 |
| AV | 5.1456G | 50.16 | 54.00 | -3.84 | 44.15 | 3 | Vertical | 157 | 1.80 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.2488G | 125.23 | Inf | -Inf | 119.06 | 3 | Vertical | 157 | 1.80 | - | 34.20 | 6.81 | 34.84 |
| AV | 5.2448G | 113.32 | Inf | -Inf | 107.16 | 3 | Vertical | 157 | 1.80 | - | 34.19 | 6.81 | 34.84 |
| PK | 5.3656G | 61.96 | 74.00 | -12.04 | 55.61 | 3 | Vertical | 157 | 1.80 | - | 34.37 | 6.91 | 34.93 |
| AV | 5.35G | 49.56 | 54.00 | -4.44 | 43.23 | 3 | Vertical | 157 | 1.80 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_4TX

## 5240MHz_TX

27/02/2020



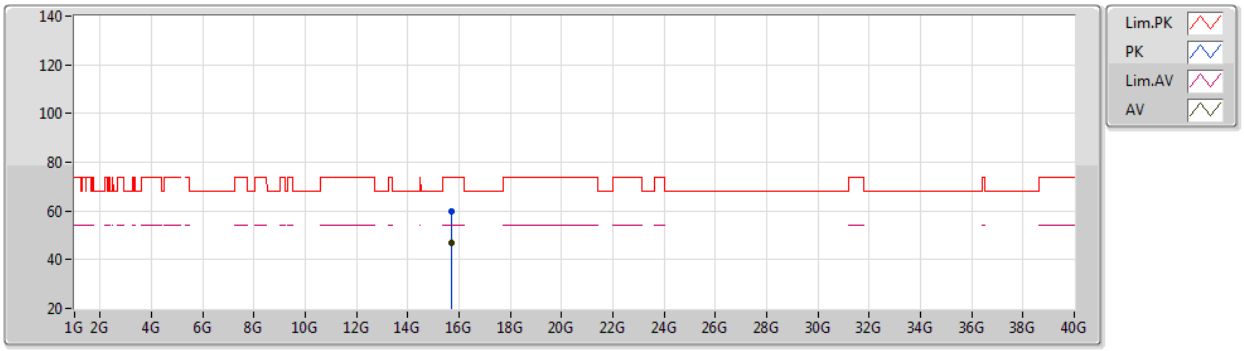

EUT Y_4TX
Setting 98
03-A-B-2-10

| 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 | 5.0928G | 61.63 | 74.00 | -12.37 | 55.68 | 3 | Horizontal | 188 | 1.67 | - | 33.99 | 6.69 | 34.73 |
| AV | 5.1496G | 48.65 | 54.00 | -5.35 | 42.64 | 3 | Horizontal | 188 | 1.67 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.232G | 123.99 | Inf | -Inf | 117.86 | 3 | Horizontal | 188 | 1.67 | - | 34.16 | 6.80 | 34.83 |
| AV | 5.232G | 111.80 | Inf | -Inf | 105.67 | 3 | Horizontal | 188 | 1.67 | - | 34.16 | 6.80 | 34.83 |
| PK | 5.3664G | 61.40 | 74.00 | -12.60 | 55.05 | 3 | Horizontal | 188 | 1.67 | - | 34.37 | 6.91 | 34.93 |
| AV | 5.35G | 48.63 | 54.00 | -5.37 | 42.30 | 3 | Horizontal | 188 | 1.67 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_4TX

## 5240MHz_TX

27/02/2020



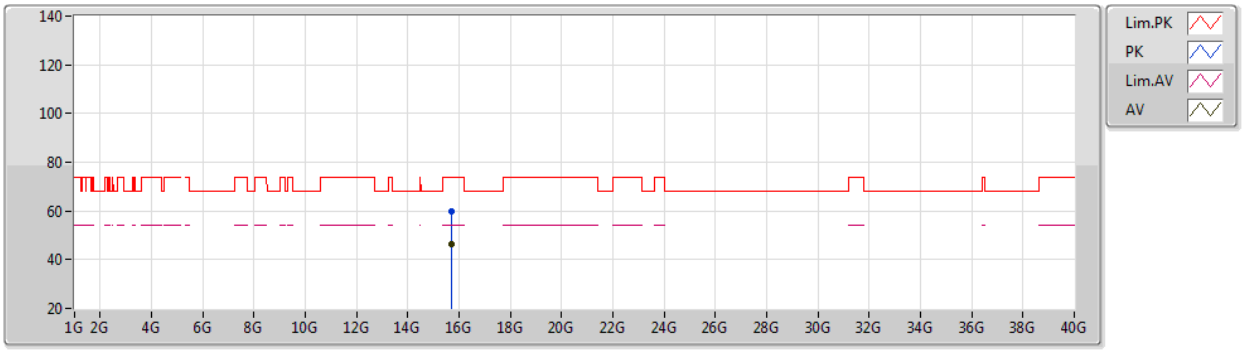

EUT Y_4TX
Setting 98
03-A-B-2

| 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 | 15.7131G | 59.77 | 74.00 | -14.23 | 44.69 | 3 | Vertical | 23 | 2.14 | - | 38.36 | 11.71 | 34.99 |
| AV | 15.696G | 46.70 | 54.00 | -7.30 | 31.56 | 3 | Vertical | 23 | 2.14 | - | 38.41 | 11.70 | 34.97 |

## 802.11ax HEW20-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5240MHz_TX



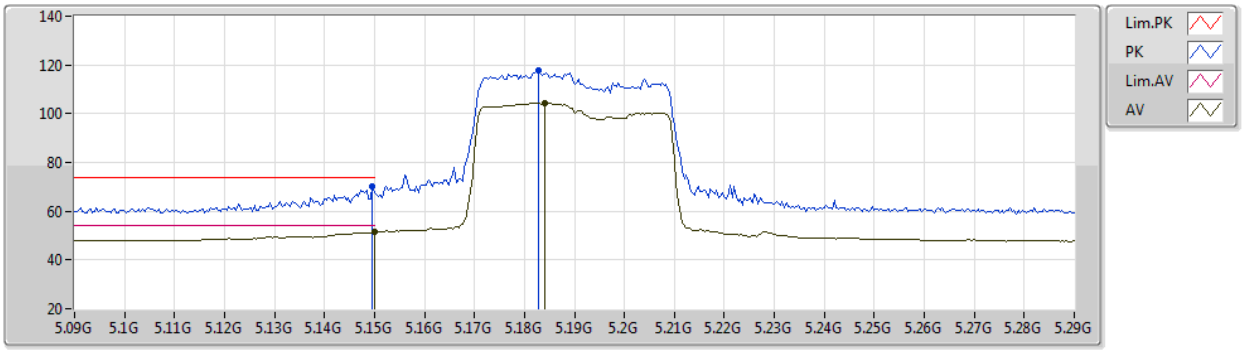

EUT Y_4TX
Setting 98
03-A-B-2

| 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 | 15.71832G | 59.93 | 74.00 | -14.07 | 44.85 | 3 | Horizontal | 101 | 1.80 | - | 38.35 | 11.72 | 34.99 |
| AV | 15.70896G | 46.45 | 54.00 | -7.55 | 31.35 | 3 | Horizontal | 101 | 1.80 | - | 38.37 | 11.71 | 34.98 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5190MHz_TX



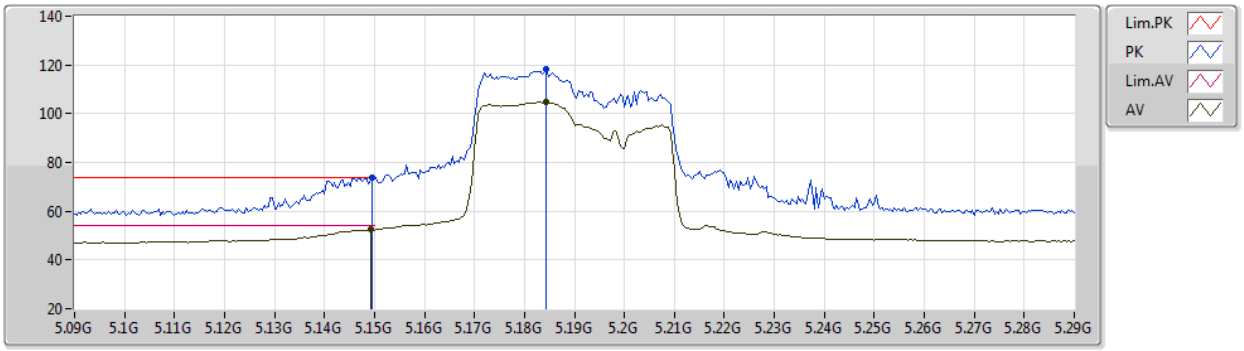

EUT Y_4TX
Setting 70
03-A-B-2-10

| 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 | 69.95 | 74.00 | -4.05 | 63.94 | 3 | Vertical | 181 | 1.80 | - | 34.05 | 6.73 | 34.77 |
| AV | 5.15G | 51.31 | 54.00 | -2.69 | 45.30 | 3 | Vertical | 181 | 1.80 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.1828G | 117.69 | Inf | -Inf | 111.65 | 3 | Vertical | 181 | 1.80 | - | 34.08 | 6.76 | 34.80 |
| AV | 5.184G | 104.46 | Inf | -Inf | 98.42 | 3 | Vertical | 181 | 1.80 | - | 34.08 | 6.76 | 34.80 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5190MHz_TX



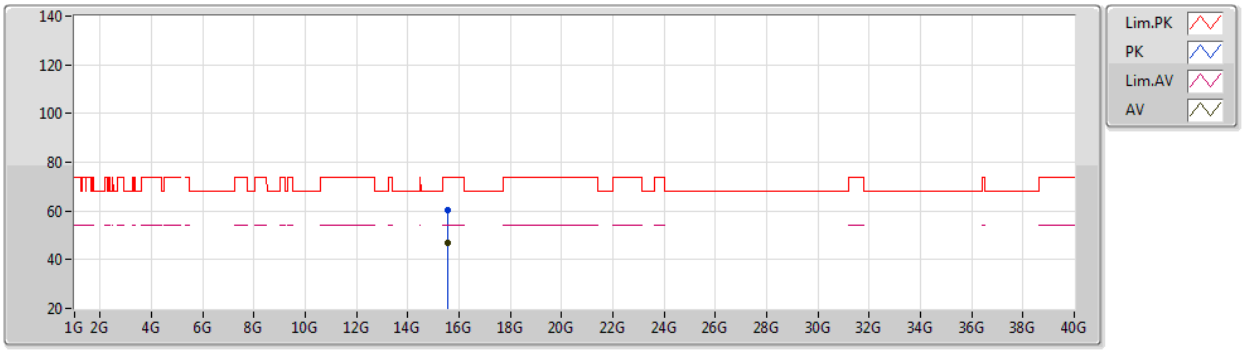

EUT Y_4TX
Setting 70
03-A-B-2-10

| 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 | 73.89 | 74.00 | -0.11 | 67.88 | 3 | Horizontal | 180 | 1.49 | - | 34.05 | 6.73 | 34.77 |
| AV | 5.1492G | 52.52 | 54.00 | -1.48 | 46.51 | 3 | Horizontal | 180 | 1.49 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.1844G | 118.34 | Inf | -Inf | 112.30 | 3 | Horizontal | 180 | 1.49 | - | 34.08 | 6.76 | 34.80 |
| AV | 5.1844G | 104.80 | Inf | -Inf | 98.76 | 3 | Horizontal | 180 | 1.49 | - | 34.08 | 6.76 | 34.80 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5190MHz_TX



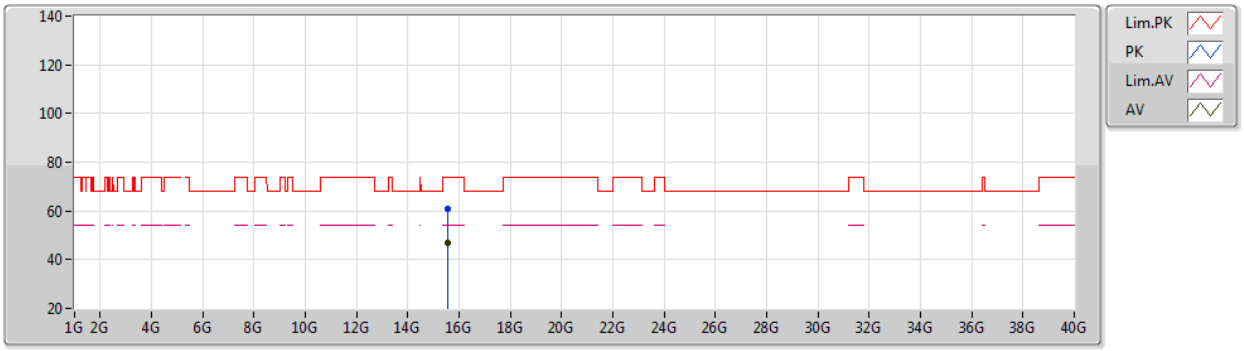

EUT Y_4TX
Setting 70
03-A-B-2

| 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 | 15.57122G | 60.58 | 74.00 | -13.42 | 44.98 | 3 | Vertical | 300 | 1.92 | - | 38.79 | 11.64 | 34.83 |
| AV | 15.5725G | 46.80 | 54.00 | -7.20 | 31.21 | 3 | Vertical | 300 | 1.92 | - | 38.78 | 11.64 | 34.83 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

## 5190MHz_TX

27/02/2020



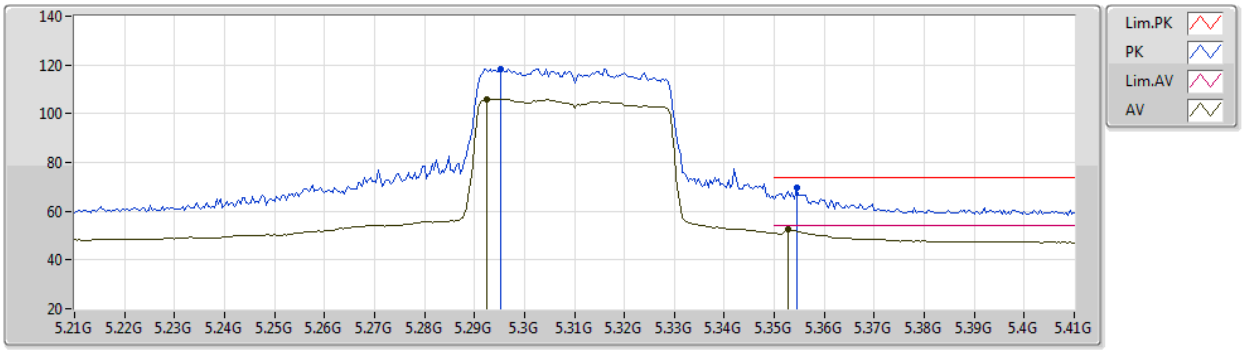

EUT Y_4TX
Setting 70
03-A-B-2

| 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 | 15.56726G | 61.07 | 74.00 | -12.93 | 45.46 | 3 | Horizontal | 201 | 2.97 | - | 38.80 | 11.64 | 34.83 |
| AV | 15.57188G | 46.84 | 54.00 | -7.16 | 31.25 | 3 | Horizontal | 201 | 2.97 | - | 38.78 | 11.64 | 34.83 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5310MHz_TX



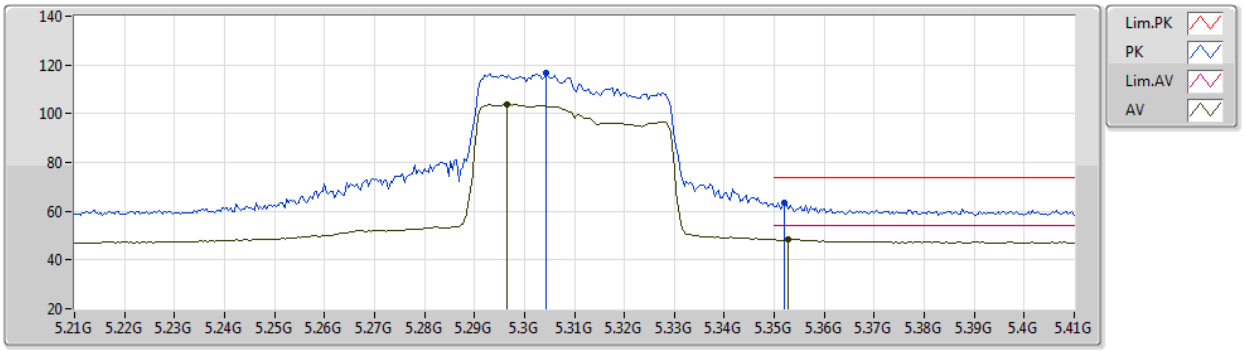

EUT Y_4TX
Setting 70
03-A-B-2-10

| 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 | 5.2952G | 118.51 | Inf | -Inf | 112.24 | 3 | Vertical | 36 | 2.39 | - | 34.29 | 6.86 | 34.88 |
| AV | 5.2924G | 105.91 | Inf | -Inf | 99.65 | 3 | Vertical | 36 | 2.39 | - | 34.28 | 6.85 | 34.87 |
| PK | 5.3544G | 69.68 | 74.00 | -4.32 | 63.35 | 3 | Vertical | 36 | 2.39 | - | 34.35 | 6.90 | 34.92 |
| AV | 5.3528G | 52.48 | 54.00 | -1.52 | 46.15 | 3 | Vertical | 36 | 2.39 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5310MHz_TX



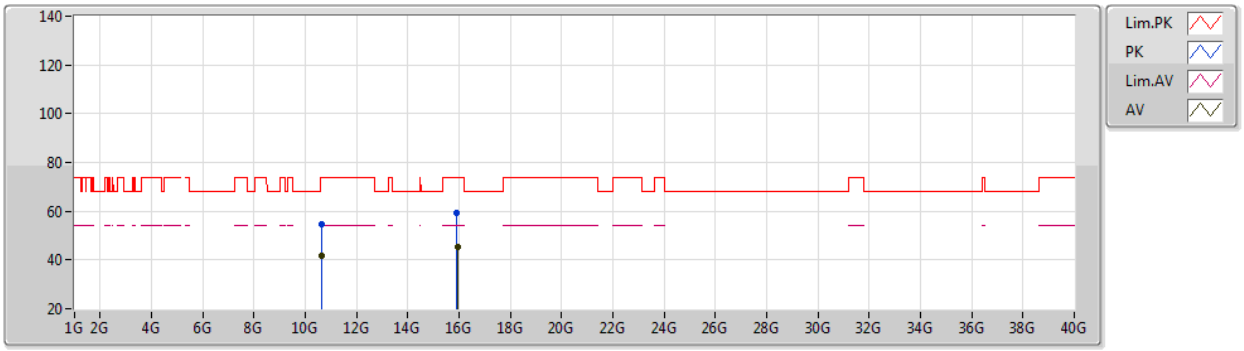

EUT Y_4TX
Setting 70
03-A-B-2-10

| 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 | 5.3044G | 116.50 | Inf | -Inf | 110.22 | 3 | Horizontal | 139 | 2.69 | - | 34.30 | 6.86 | 34.88 |
| AV | 5.2964G | 104.01 | Inf | -Inf | 97.74 | 3 | Horizontal | 139 | 2.69 | - | 34.29 | 6.86 | 34.88 |
| PK | 5.352G | 63.29 | 74.00 | -10.71 | 56.96 | 3 | Horizontal | 139 | 2.69 | - | 34.35 | 6.90 | 34.92 |
| AV | 5.3528G | 48.58 | 54.00 | -5.42 | 42.25 | 3 | Horizontal | 139 | 2.69 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5310MHz_TX



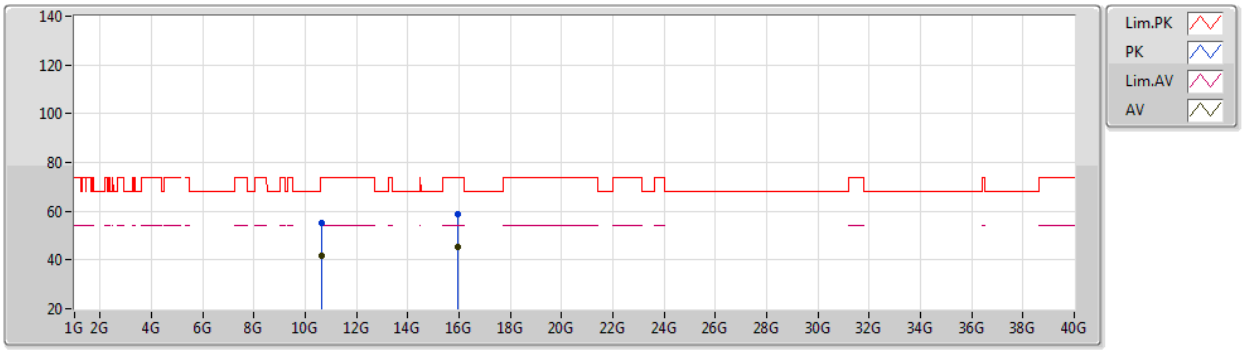

EUT Y_4TX
Setting 70
03-A-B-2

| 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 | 10.62192G | 54.86 | 74.00 | -19.14 | 41.22 | 3 | Vertical | 160 | 1.42 | - | 38.42 | 10.04 | 34.82 |
| AV | 10.61508G | 41.71 | 54.00 | -12.29 | 28.07 | 3 | Vertical | 160 | 1.42 | - | 38.42 | 10.04 | 34.82 |
| PK | 15.92522G | 59.28 | 74.00 | -14.72 | 44.96 | 3 | Vertical | 118 | 1.91 | - | 37.72 | 11.82 | 35.22 |
| AV | 15.93298G | 45.18 | 54.00 | -8.82 | 30.88 | 3 | Vertical | 118 | 1.91 | - | 37.70 | 11.83 | 35.23 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

## 5310MHz_TX

27/02/2020



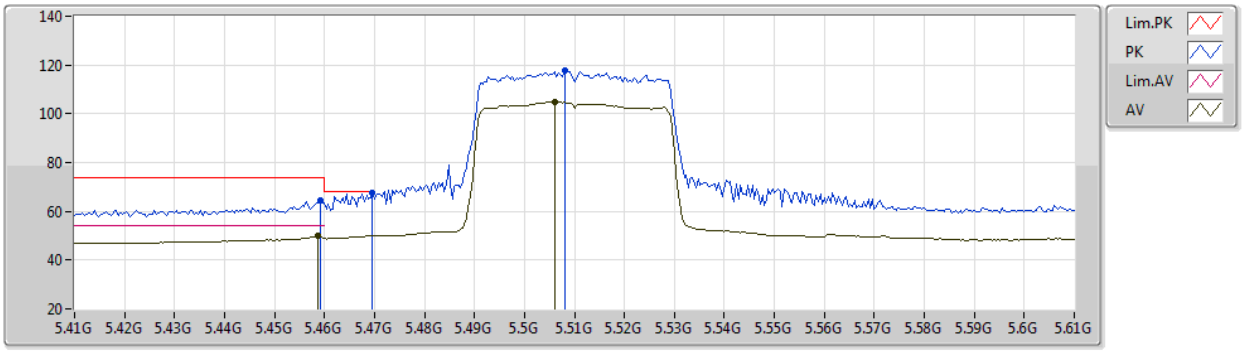

EUT Y_4TX
Setting 70
03-A-B-2

| 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 | 10.61744G | 55.39 | 74.00 | -18.61 | 41.75 | 3 | Horizontal | 188 | 1.31 | - | 38.42 | 10.04 | 34.82 |
| AV | 10.62012G | 41.70 | 54.00 | -12.30 | 28.06 | 3 | Horizontal | 188 | 1.31 | - | 38.42 | 10.04 | 34.82 |
| PK | 15.9277G | 58.61 | 74.00 | -15.39 | 44.29 | 3 | Horizontal | 324 | 1.63 | - | 37.72 | 11.82 | 35.22 |
| AV | 15.93064G | 45.13 | 54.00 | -8.87 | 30.82 | 3 | Horizontal | 324 | 1.63 | - | 37.71 | 11.82 | 35.22 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

## 5510MHz_TX

27/02/2020



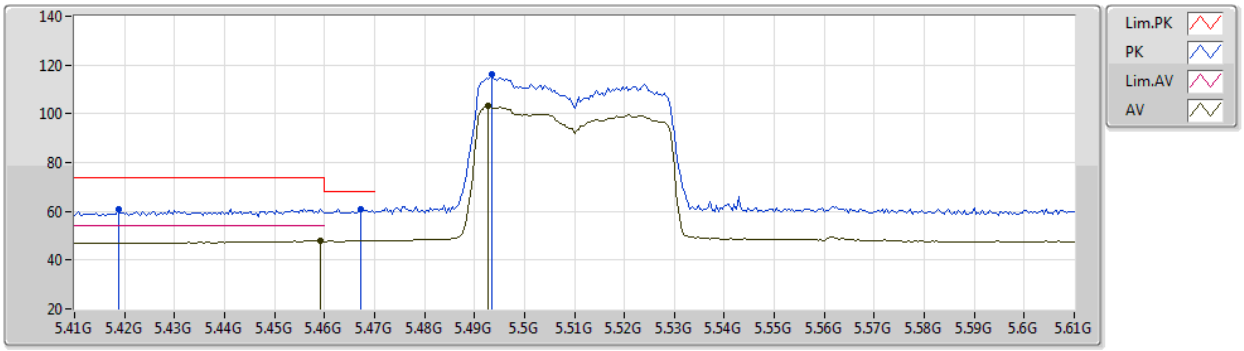

EUT Y_4TX
Setting 68
03-A-B-2-10

| 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 | 5.4592G | 64.26 | 74.00 | -9.74 | 57.81 | 3 | Vertical | 247 | 1.66 | - | 34.46 | 6.98 | 34.99 |
| AV | 5.4588G | 49.77 | 54.00 | -4.23 | 43.32 | 3 | Vertical | 247 | 1.66 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.4696G | 67.74 | 68.20 | -0.46 | 61.27 | 3 | Vertical | 247 | 1.66 | - | 34.47 | 6.99 | 34.99 |
| PK | 5.508G | 117.61 | Inf | -Inf | 111.12 | 3 | Vertical | 247 | 1.66 | - | 34.49 | 7.01 | 35.01 |
| AV | 5.506G | 104.99 | Inf | -Inf | 98.50 | 3 | Vertical | 247 | 1.66 | - | 34.49 | 7.01 | 35.01 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5510MHz_TX



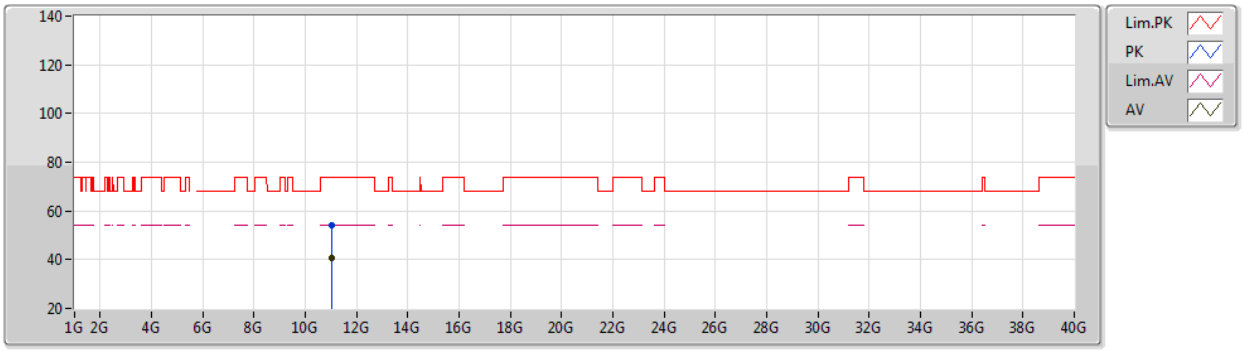

EUT Y_4TX
Setting 68
03-A-B-2-10

| 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 | 5.4188G | 60.96 | 74.00 | -13.04 | 54.55 | 3 | Horizontal | 200 | 2.34 | - | 34.42 | 6.95 | 34.96 |
| PK | 5.4672G | 60.77 | 68.20 | -7.43 | 54.31 | 3 | Horizontal | 200 | 2.34 | - | 34.47 | 6.98 | 34.99 |
| AV | 5.4592G | 47.88 | 54.00 | -6.12 | 41.43 | 3 | Horizontal | 200 | 2.34 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.4936G | 115.97 | Inf | -Inf | 109.49 | 3 | Horizontal | 200 | 2.34 | - | 34.49 | 7.00 | 35.01 |
| AV | 5.4928G | 103.05 | Inf | -Inf | 96.57 | 3 | Horizontal | 200 | 2.34 | - | 34.49 | 7.00 | 35.01 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5510MHz_TX



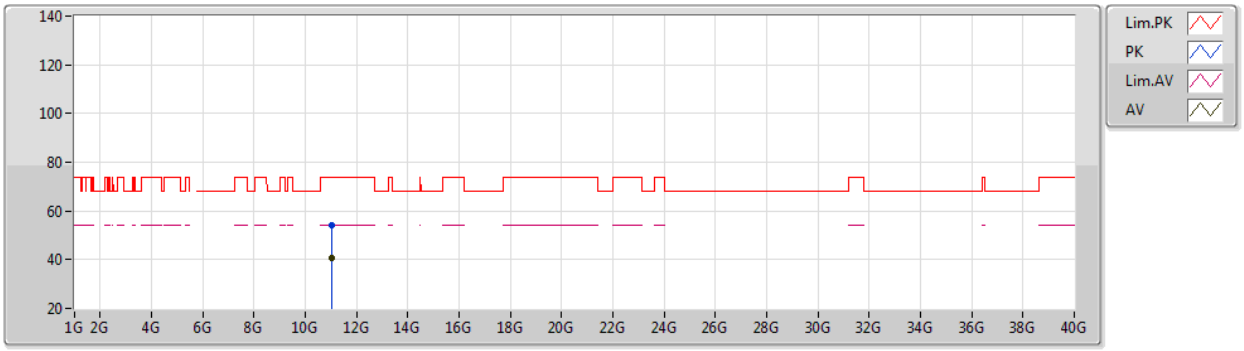

EUT Y_4TX
Setting 68
03-A-B-2

| 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 | 11.02146G | 54.00 | 74.00 | -20.00 | 39.97 | 3 | Vertical | 8 | 2.25 | - | 38.52 | 10.10 | 34.59 |
| AV | 11.02104G | 40.63 | 54.00 | -13.37 | 26.61 | 3 | Vertical | 8 | 2.25 | - | 38.51 | 10.10 | 34.59 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5510MHz_TX



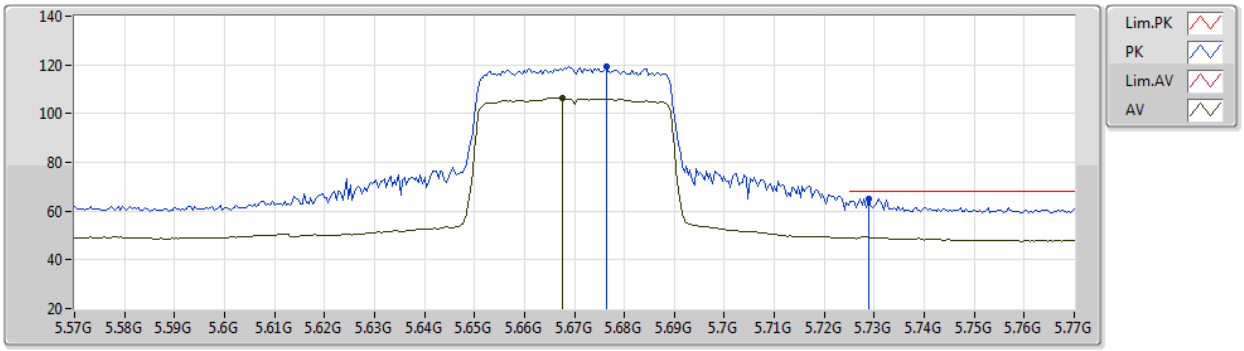

EUT Y_4TX
Setting 68
03-A-B-2

| 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 | 11.02328G | 54.11 | 74.00 | -19.89 | 40.08 | 3 | Horizontal | 227 | 1.26 | - | 38.52 | 10.10 | 34.59 |
| AV | 11.01672G | 40.70 | 54.00 | -13.30 | 26.68 | 3 | Horizontal | 227 | 1.26 | - | 38.51 | 10.10 | 34.59 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

## 5670MHz_TX

27/02/2020



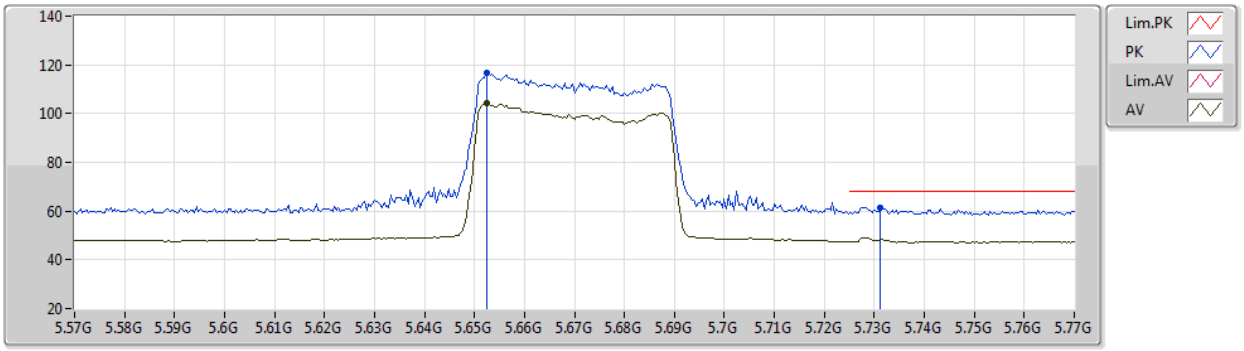

EUT Y_4TX
Setting 69
03-A-B-2-10

| 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 | 5.6764G | 119.27 | Inf | -Inf | 112.88 | 3 | Vertical | 246 | 1.58 | - | 34.32 | 7.03 | 34.96 |
| AV | 5.6676G | 106.31 | Inf | -Inf | 99.91 | 3 | Vertical | 246 | 1.58 | - | 34.33 | 7.03 | 34.96 |
| PK | 5.7288G | 65.18 | 68.20 | -3.02 | 58.79 | 3 | Vertical | 246 | 1.58 | - | 34.30 | 7.03 | 34.94 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

## 5670MHz_TX

27/02/2020



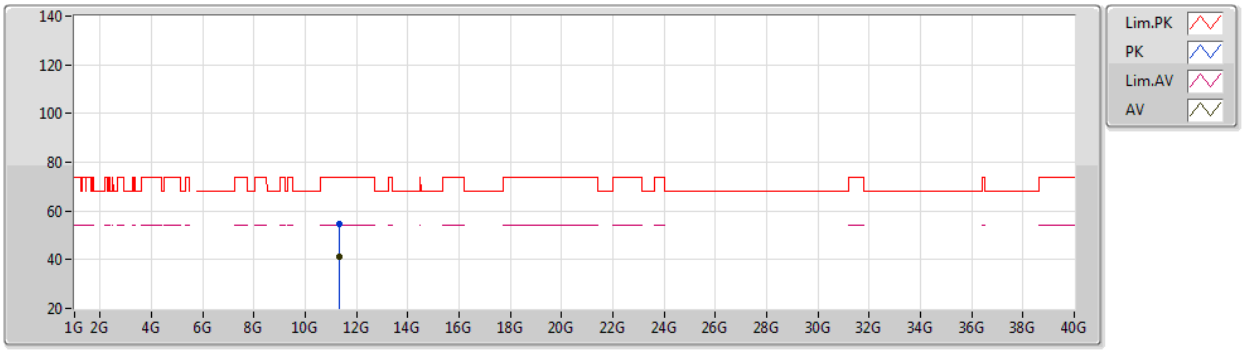

EUT Y_4TX
Setting 69
03-A-B-2-10

| 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 | 5.6524G | 116.59 | Inf | -Inf | 110.17 | 3 | Horizontal | 205 | 2.97 | - | 34.35 | 7.03 | 34.96 |
| AV | 5.6524G | 104.30 | Inf | -Inf | 97.88 | 3 | Horizontal | 205 | 2.97 | - | 34.35 | 7.03 | 34.96 |
| PK | 5.7312G | 61.43 | 68.20 | -6.77 | 55.04 | 3 | Horizontal | 205 | 2.97 | - | 34.30 | 7.03 | 34.94 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

## 5670MHz_TX

27/02/2020



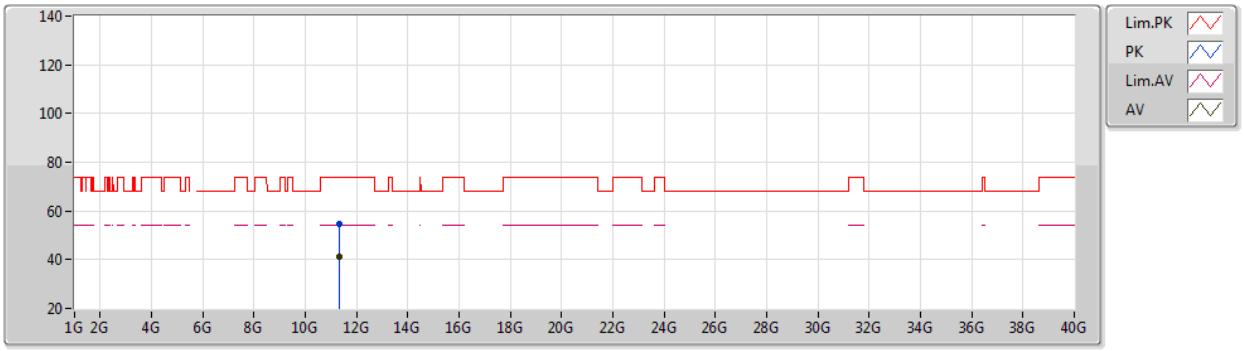

EUT Y_4TX
Setting 69
03-A-B-2

| 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 | 11.34258G | 54.65 | 74.00 | -19.35 | 40.42 | 3 | Vertical | 288 | 2.40 | - | 38.74 | 10.14 | 34.65 |
| AV | 11.34346G | 41.25 | 54.00 | -12.75 | 27.02 | 3 | Vertical | 288 | 2.40 | - | 38.74 | 10.14 | 34.65 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5670MHz_TX



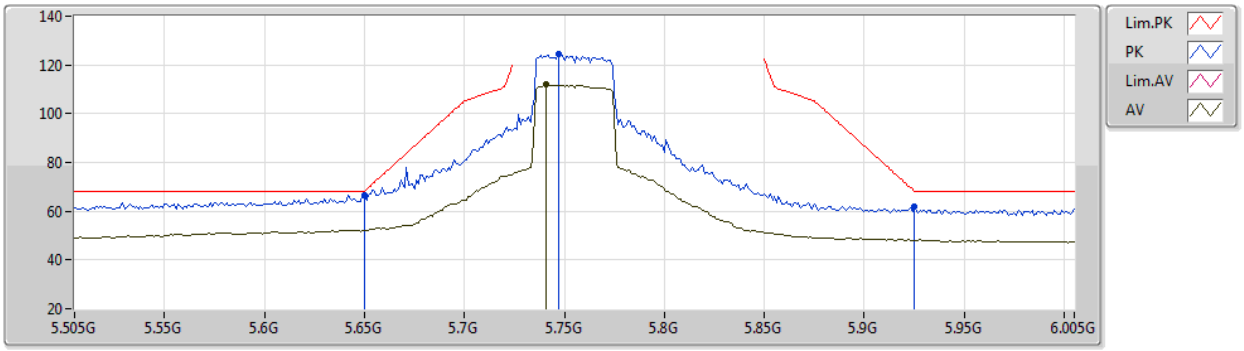

EUT Y_4TX
Setting 69
03-A-B-2

| 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 | 11.34384G | 54.68 | 74.00 | -19.32 | 40.45 | 3 | Horizontal | 43 | 2.86 | - | 38.74 | 10.14 | 34.65 |
| AV | 11.3438G | 41.26 | 54.00 | -12.74 | 27.03 | 3 | Horizontal | 43 | 2.86 | - | 38.74 | 10.14 | 34.65 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

### 5755MHz_TX



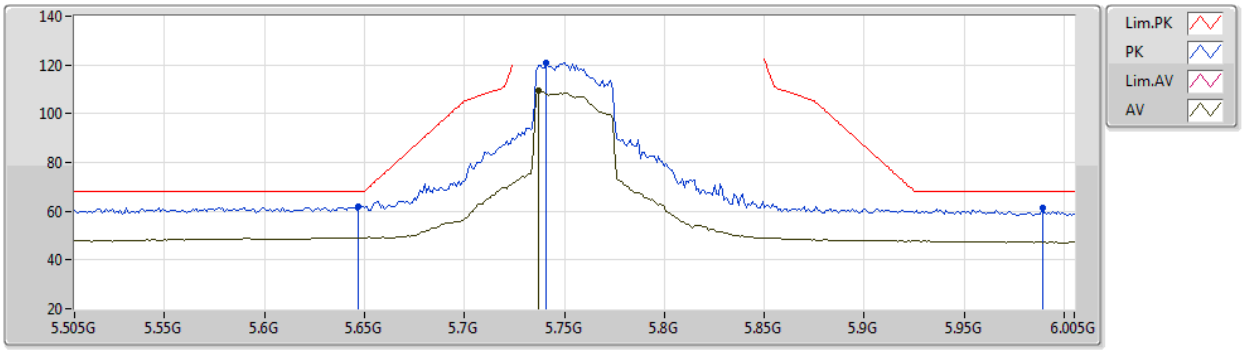

EUT Y_4TX
Setting 90
03-A-B-2-10

| 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 | 5.65G | 66.48 | 68.20 | -1.72 | 60.07 | 3 | Vertical | 247 | 1.52 | - | 34.35 | 7.03 | 34.97 |
| PK | 5.747G | 124.31 | Inf | -Inf | 117.92 | 3 | Vertical | 247 | 1.52 | - | 34.30 | 7.03 | 34.94 |
| AV | 5.741G | 111.91 | Inf | -Inf | 105.52 | 3 | Vertical | 247 | 1.52 | - | 34.30 | 7.03 | 34.94 |
| PK | 5.925G | 61.90 | 68.20 | -6.30 | 55.16 | 3 | Vertical | 247 | 1.52 | - | 34.58 | 7.05 | 34.89 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5755MHz_TX



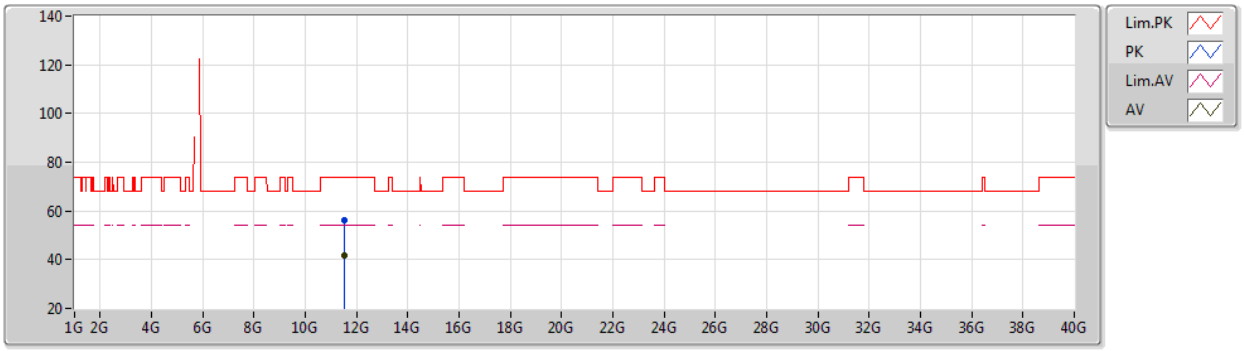

EUT Y_4TX
Setting 90
03-A-B-2-10

| 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 | 5.647G | 61.82 | 68.20 | -6.38 | 55.42 | 3 | Horizontal | 190 | 2.92 | - | 34.35 | 7.02 | 34.97 |
| PK | 5.741G | 120.94 | Inf | -Inf | 114.55 | 3 | Horizontal | 190 | 2.92 | - | 34.30 | 7.03 | 34.94 |
| AV | 5.737G | 109.48 | Inf | -Inf | 103.09 | 3 | Horizontal | 190 | 2.92 | - | 34.30 | 7.03 | 34.94 |
| PK | 5.989G | 61.49 | 68.20 | -6.71 | 54.53 | 3 | Horizontal | 190 | 2.92 | - | 34.77 | 7.06 | 34.87 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5755MHz_TX



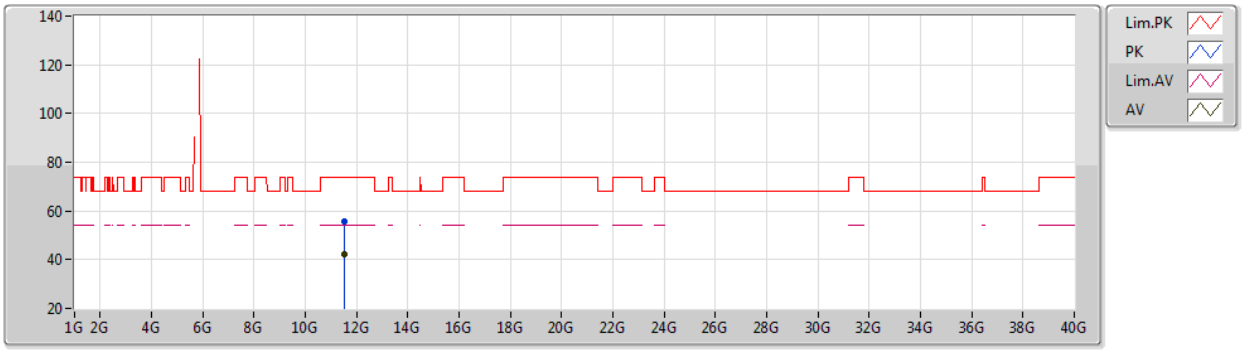

EUT Y_4TX
Setting 90
03-A-B-2

| 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 | 11.50286G | 55.96 | 74.00 | -18.04 | 41.62 | 3 | Vertical | 13 | 2.99 | - | 38.85 | 10.17 | 34.68 |
| AV | 11.51678G | 41.88 | 54.00 | -12.12 | 27.53 | 3 | Vertical | 13 | 2.99 | - | 38.86 | 10.17 | 34.68 |

## 802.11ax HEW40-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5755MHz_TX



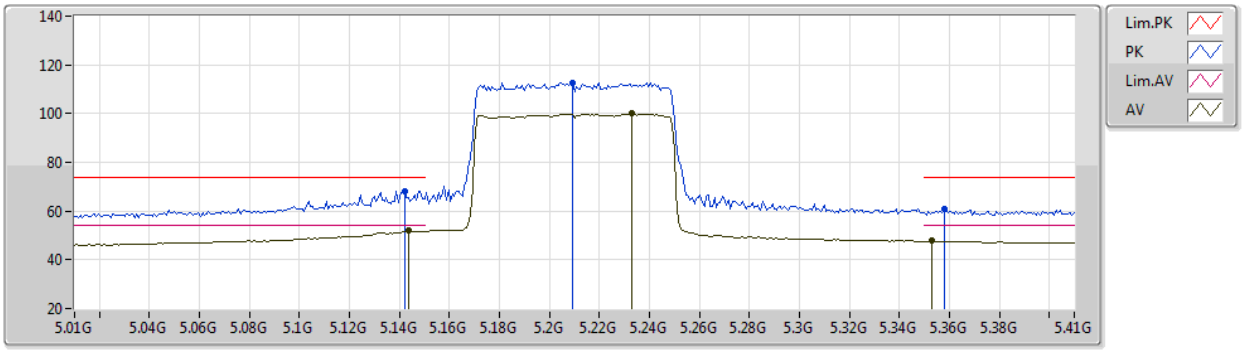

EUT Y_4TX
Setting 90
03-A-B-2

| 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 | 11.50466G | 55.81 | 74.00 | -18.19 | 41.47 | 3 | Horizontal | 113 | 3.00 | - | 38.85 | 10.17 | 34.68 |
| AV | 11.5109G | 42.07 | 54.00 | -11.93 | 27.72 | 3 | Horizontal | 113 | 3.00 | - | 38.86 | 10.17 | 34.68 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5210MHz_TX



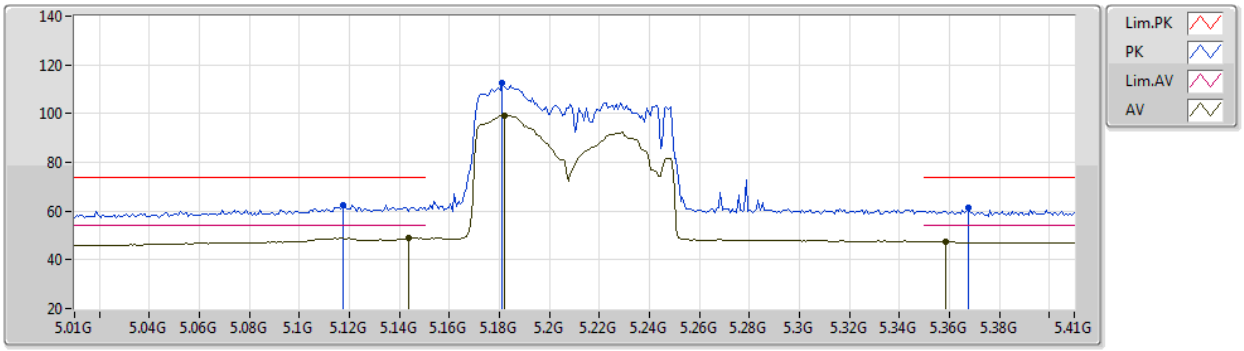

EUT Y_4TX
Setting 65
03-A-B-2-10

| 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 | 5.142G | 68.36 | 74.00 | -5.64 | 62.36 | 3 | Vertical | 100 | 1.80 | - | 34.04 | 6.73 | 34.77 |
| AV | 5.1436G | 51.90 | 54.00 | -2.10 | 45.90 | 3 | Vertical | 100 | 1.80 | - | 34.04 | 6.73 | 34.77 |
| PK | 5.2092G | 112.84 | Inf | -Inf | 106.76 | 3 | Vertical | 100 | 1.80 | - | 34.12 | 6.78 | 34.82 |
| AV | 5.2332G | 99.92 | Inf | -Inf | 93.78 | 3 | Vertical | 100 | 1.80 | - | 34.17 | 6.80 | 34.83 |
| PK | 5.358G | 60.91 | 74.00 | -13.09 | 54.57 | 3 | Vertical | 100 | 1.80 | - | 34.36 | 6.90 | 34.92 |
| AV | 5.3532G | 47.69 | 54.00 | -6.31 | 41.36 | 3 | Vertical | 100 | 1.80 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5210MHz_TX



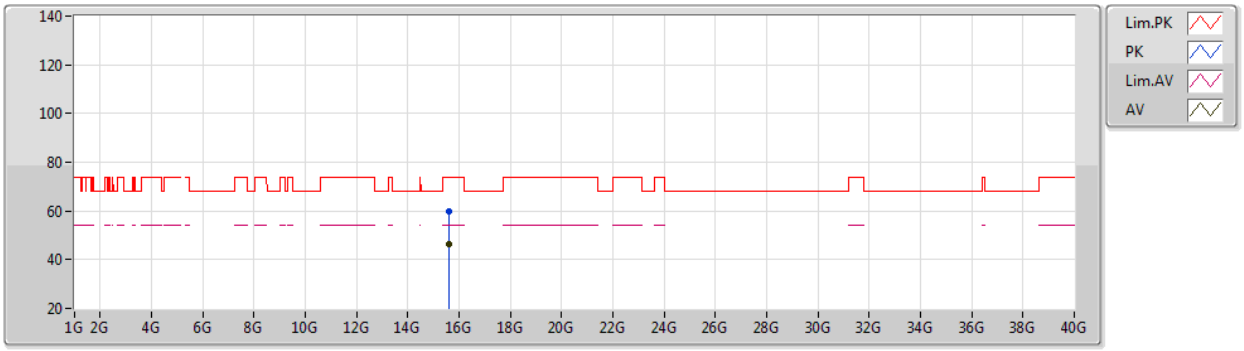

EUT Y_4TX
Setting 65
03-A-B-2-10

| 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 | 5.1172G | 62.51 | 74.00 | -11.49 | 56.53 | 3 | Horizontal | 191 | 1.41 | - | 34.02 | 6.71 | 34.75 |
| AV | 5.1436G | 48.92 | 54.00 | -5.08 | 42.92 | 3 | Horizontal | 191 | 1.41 | - | 34.04 | 6.73 | 34.77 |
| PK | 5.1812G | 112.38 | Inf | -Inf | 106.34 | 3 | Horizontal | 191 | 1.41 | - | 34.08 | 6.76 | 34.80 |
| AV | 5.182G | 99.23 | Inf | -Inf | 93.19 | 3 | Horizontal | 191 | 1.41 | - | 34.08 | 6.76 | 34.80 |
| PK | 5.3676G | 61.29 | 74.00 | -12.71 | 54.94 | 3 | Horizontal | 191 | 1.41 | - | 34.37 | 6.91 | 34.93 |
| AV | 5.3588G | 47.48 | 54.00 | -6.52 | 41.14 | 3 | Horizontal | 191 | 1.41 | - | 34.36 | 6.90 | 34.92 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5210MHz_TX



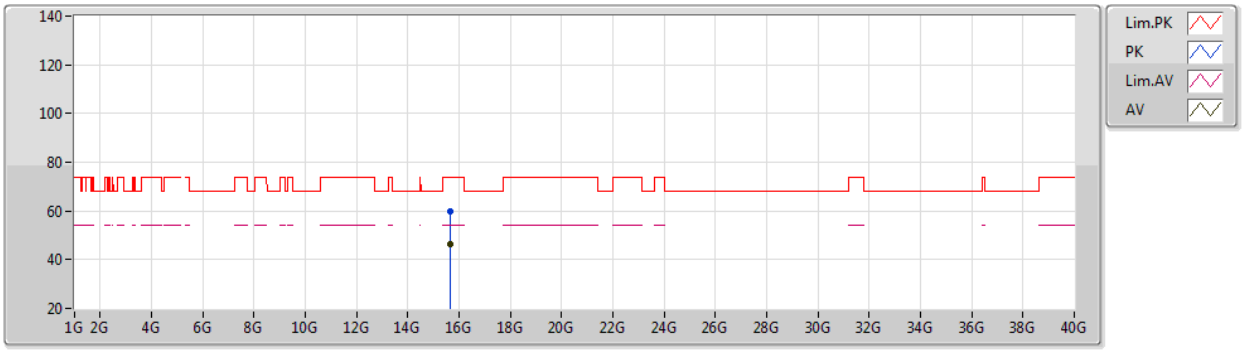

EUT Y_4TX
Setting 65
03-A-B-2

| 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 | 15.62772G | 59.68 | 74.00 | -14.32 | 44.28 | 3 | Vertical | 224 | 1.05 | - | 38.62 | 11.67 | 34.89 |
| AV | 15.6264G | 46.35 | 54.00 | -7.65 | 30.95 | 3 | Vertical | 224 | 1.05 | - | 38.62 | 11.67 | 34.89 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

## 5210MHz_TX

27/02/2020



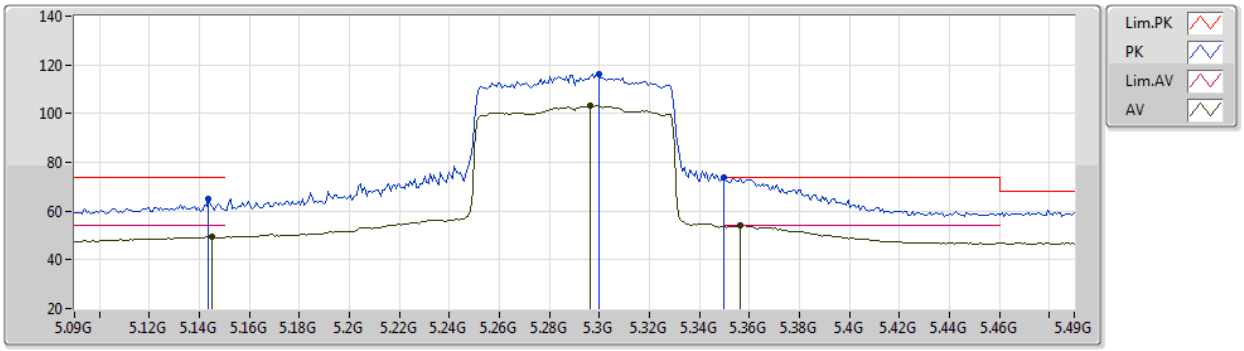

EUT Y_4TX
Setting 65
03-A-B-2

| 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 | 15.63152G | 59.71 | 74.00 | -14.29 | 44.33 | 3 | Horizontal | 62 | 1.78 | - | 38.61 | 11.67 | 34.90 |
| AV | 15.63144G | 46.26 | 54.00 | -7.74 | 30.88 | 3 | Horizontal | 62 | 1.78 | - | 38.61 | 11.67 | 34.90 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5290MHz_TX



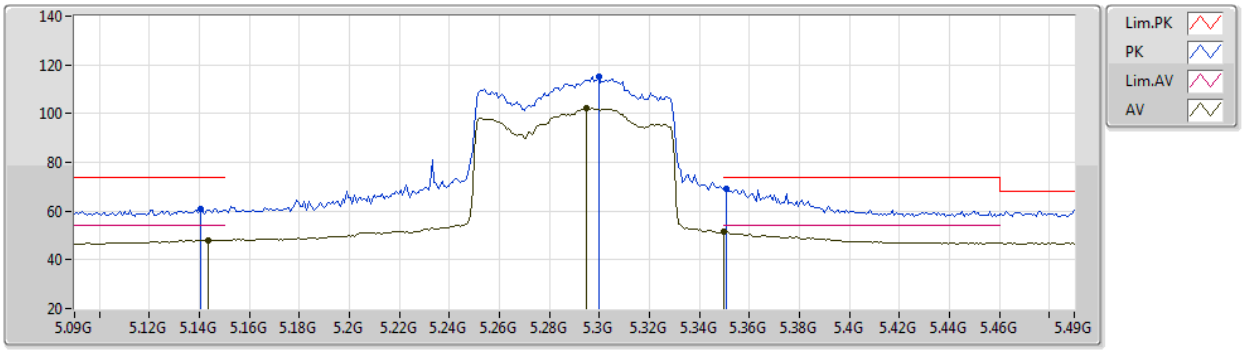

EUT Y_4TX
Setting 70
03-A-B-2-10

| 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 | 5.1436G | 65.09 | 74.00 | -8.91 | 59.09 | 3 | Vertical | 40 | 1.80 | - | 34.04 | 6.73 | 34.77 |
| AV | 5.1452G | 49.34 | 54.00 | -4.66 | 43.33 | 3 | Vertical | 40 | 1.80 | - | 34.05 | 6.73 | 34.77 |
| PK | 5.2996G | 116.28 | Inf | -Inf | 110.00 | 3 | Vertical | 40 | 1.80 | - | 34.30 | 6.86 | 34.88 |
| AV | 5.2964G | 103.34 | Inf | -Inf | 97.07 | 3 | Vertical | 40 | 1.80 | - | 34.29 | 6.86 | 34.88 |
| PK | 5.35G | 73.88 | 74.00 | -0.12 | 67.55 | 3 | Vertical | 40 | 1.80 | - | 34.35 | 6.90 | 34.92 |
| AV | 5.3564G | 53.97 | 54.00 | -0.03 | 47.63 | 3 | Vertical | 40 | 1.80 | - | 34.36 | 6.90 | 34.92 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5290MHz_TX



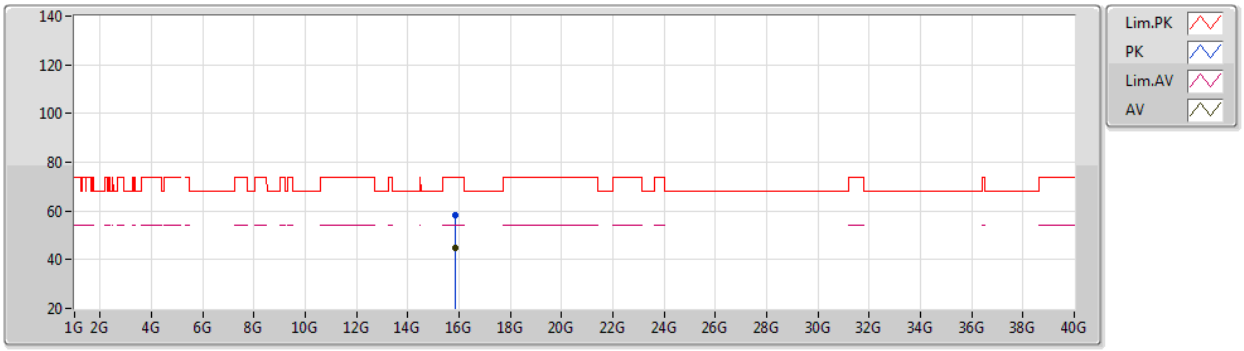

EUT Y_4TX
Setting 70
03-A-B-2-10

| 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 | 5.1404G | 60.72 | 74.00 | -13.28 | 54.72 | 3 | Horizontal | 142 | 2.41 | - | 34.04 | 6.73 | 34.77 |
| AV | 5.1436G | 48.08 | 54.00 | -5.92 | 42.08 | 3 | Horizontal | 142 | 2.41 | - | 34.04 | 6.73 | 34.77 |
| PK | 5.2996G | 115.29 | Inf | -Inf | 109.01 | 3 | Horizontal | 142 | 2.41 | - | 34.30 | 6.86 | 34.88 |
| AV | 5.2948G | 102.17 | Inf | -Inf | 95.90 | 3 | Horizontal | 142 | 2.41 | - | 34.29 | 6.86 | 34.88 |
| PK | 5.3508G | 69.11 | 74.00 | -4.89 | 62.78 | 3 | Horizontal | 142 | 2.41 | - | 34.35 | 6.90 | 34.92 |
| AV | 5.35G | 51.36 | 54.00 | -2.64 | 45.03 | 3 | Horizontal | 142 | 2.41 | - | 34.35 | 6.90 | 34.92 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

## 5290MHz_TX

27/02/2020



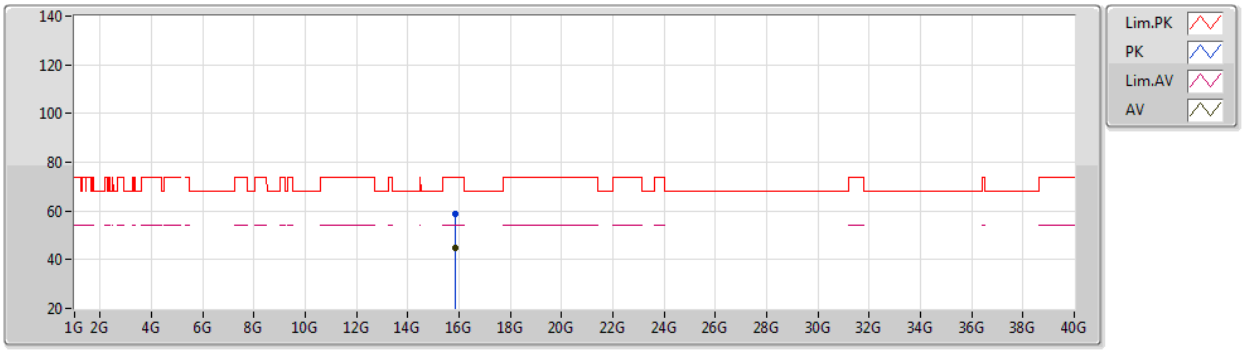

EUT Y_4TX
Setting 70
03-A-B-2

| 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 | 15.87464G | 58.17 | 74.00 | -15.83 | 43.65 | 3 | Vertical | 234 | 1.25 | - | 37.88 | 11.80 | 35.16 |
| AV | 15.87018G | 44.67 | 54.00 | -9.33 | 30.15 | 3 | Vertical | 234 | 1.25 | - | 37.89 | 11.79 | 35.16 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

## 5290MHz_TX

27/02/2020



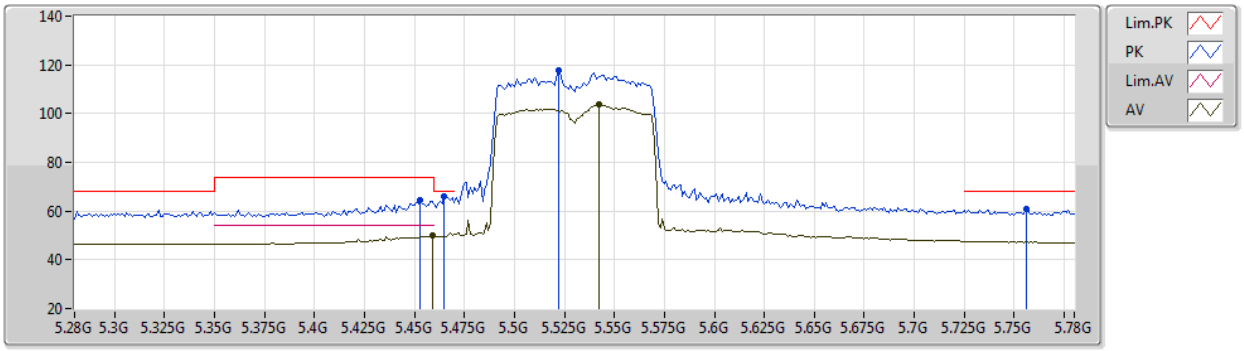

EUT Y_4TX
Setting 70
03-A-B-2

| 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 | 15.87492G | 58.58 | 74.00 | -15.42 | 44.06 | 3 | Horizontal | 215 | 2.71 | - | 37.88 | 11.80 | 35.16 |
| AV | 15.87236G | 44.70 | 54.00 | -9.30 | 30.19 | 3 | Horizontal | 215 | 2.71 | - | 37.88 | 11.79 | 35.16 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5530MHz_TX



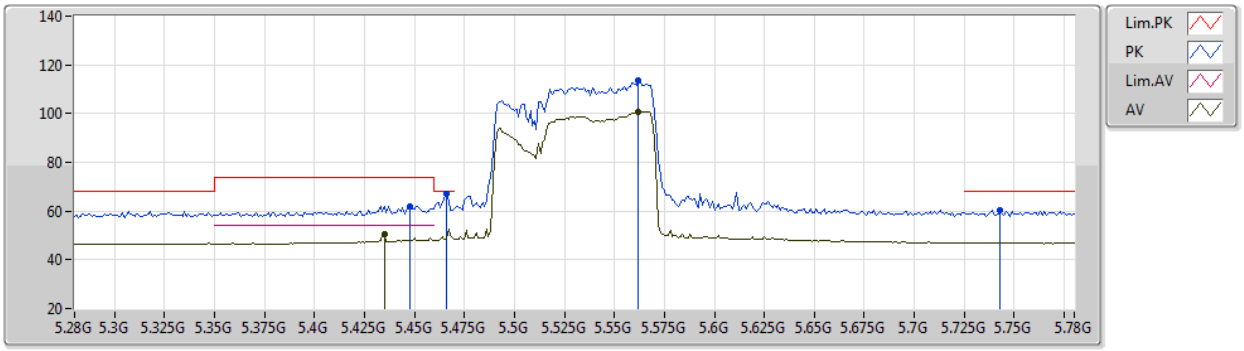

EUT Y_4TX
Setting 72
03-A-B-2-10

| 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 | 5.453G | 64.49 | 74.00 | -9.51 | 58.05 | 3 | Vertical | 250 | 1.73 | - | 34.45 | 6.97 | 34.98 |
| AV | 5.459G | 50.01 | 54.00 | -3.99 | 43.56 | 3 | Vertical | 250 | 1.73 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.465G | 66.18 | 68.20 | -2.02 | 59.73 | 3 | Vertical | 250 | 1.73 | - | 34.46 | 6.98 | 34.99 |
| PK | 5.522G | 117.89 | Inf | -Inf | 111.40 | 3 | Vertical | 250 | 1.73 | - | 34.48 | 7.01 | 35.00 |
| AV | 5.542G | 103.54 | Inf | -Inf | 97.07 | 3 | Vertical | 250 | 1.73 | - | 34.46 | 7.01 | 35.00 |
| PK | 5.756G | 60.85 | 68.20 | -7.35 | 54.45 | 3 | Vertical | 250 | 1.73 | - | 34.30 | 7.04 | 34.94 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5530MHz_TX



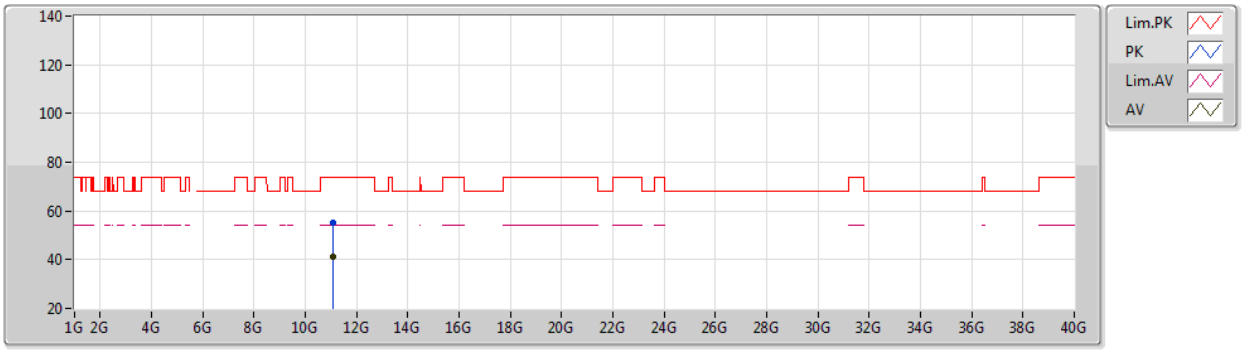

EUT Y_4TX
Setting 72
03-A-B-2-10

| 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 | 5.448G | 62.13 | 74.00 | -11.87 | 55.69 | 3 | Horizontal | 189 | 3.00 | - | 34.45 | 6.97 | 34.98 |
| AV | 5.435G | 50.51 | 54.00 | -3.49 | 44.08 | 3 | Horizontal | 189 | 3.00 | - | 34.44 | 6.96 | 34.97 |
| PK | 5.466G | 66.87 | 68.20 | -1.33 | 60.41 | 3 | Horizontal | 189 | 3.00 | - | 34.47 | 6.98 | 34.99 |
| PK | 5.562G | 113.56 | Inf | -Inf | 107.09 | 3 | Horizontal | 189 | 3.00 | - | 34.44 | 7.02 | 34.99 |
| AV | 5.562G | 100.91 | Inf | -Inf | 94.44 | 3 | Horizontal | 189 | 3.00 | - | 34.44 | 7.02 | 34.99 |
| PK | 5.743G | 60.22 | 68.20 | -7.98 | 53.83 | 3 | Horizontal | 189 | 3.00 | - | 34.30 | 7.03 | 34.94 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5530MHz_TX



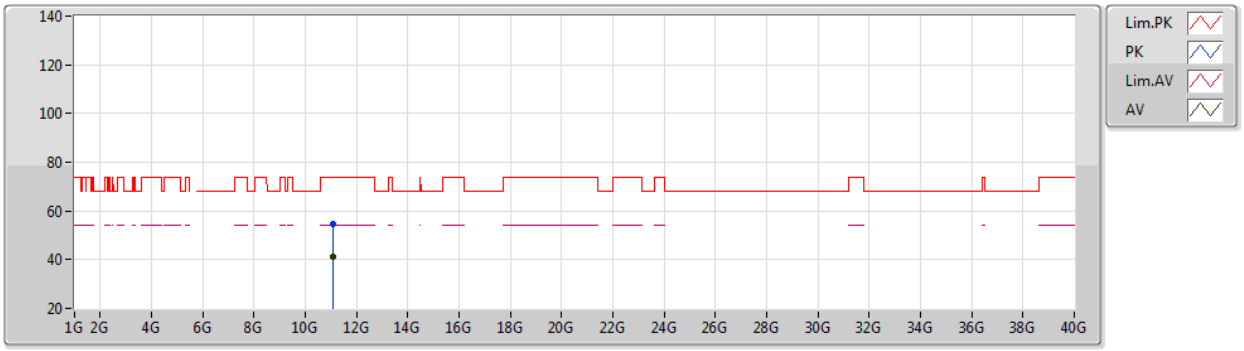

EUT Y_4TX
Setting 72
03-A-B-2

| 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 | 11.06044G | 55.22 | 74.00 | -18.78 | 41.17 | 3 | Vertical | 4 | 1.65 | - | 38.54 | 10.11 | 34.60 |
| AV | 11.06246G | 41.13 | 54.00 | -12.87 | 27.08 | 3 | Vertical | 4 | 1.65 | - | 38.54 | 10.11 | 34.60 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5530MHz_TX



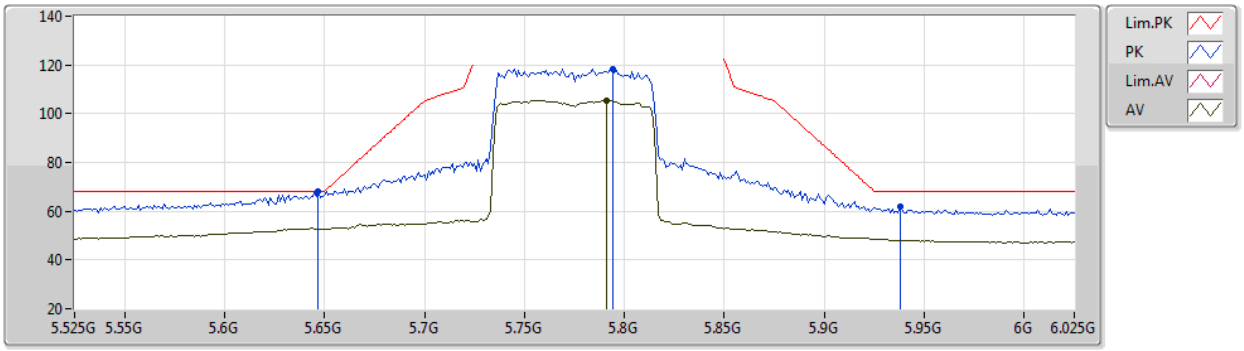

EUT Y_4TX
Setting 72
03-A-B-2

| 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 | 11.06442G | 54.74 | 74.00 | -19.26 | 40.68 | 3 | Horizontal | 198 | 2.38 | - | 38.55 | 10.11 | 34.60 |
| AV | 11.06266G | 41.17 | 54.00 | -12.83 | 27.12 | 3 | Horizontal | 198 | 2.38 | - | 38.54 | 10.11 | 34.60 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5775MHz_TX



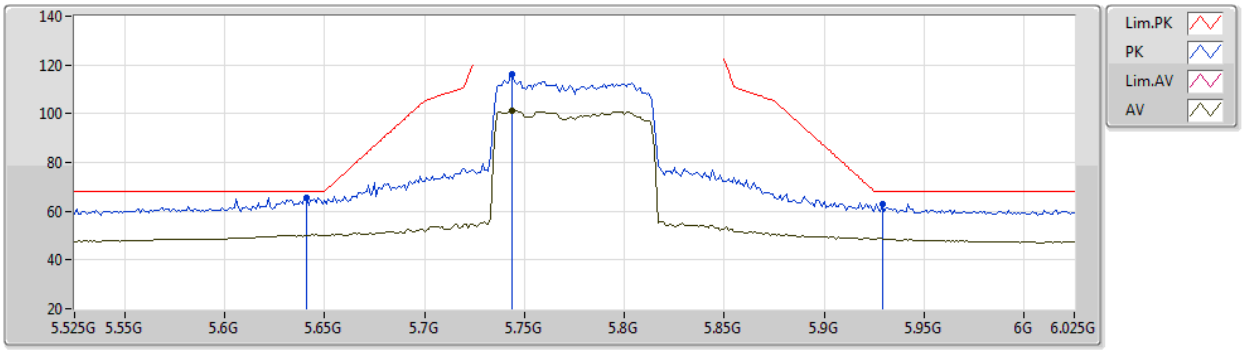

EUT Y_4TX
Setting 77
03-A-B-2-10

| 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 | 5.647G | 68.03 | 68.20 | -0.17 | 61.63 | 3 | Vertical | 251 | 1.61 | - | 34.35 | 7.02 | 34.97 |
| PK | 5.794G | 118.37 | Inf | -Inf | 111.96 | 3 | Vertical | 251 | 1.61 | - | 34.30 | 7.04 | 34.93 |
| AV | 5.791G | 105.49 | Inf | -Inf | 99.08 | 3 | Vertical | 251 | 1.61 | - | 34.30 | 7.04 | 34.93 |
| PK | 5.938G | 62.15 | 68.20 | -6.05 | 55.38 | 3 | Vertical | 251 | 1.61 | - | 34.61 | 7.05 | 34.89 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

### 5775MHz_TX



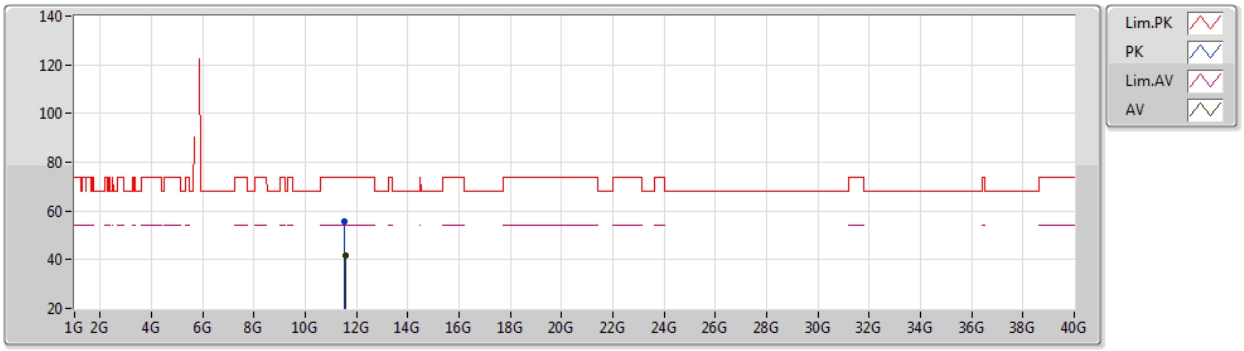

EUT Y_4TX
Setting 77
03-A-B-2-10

| 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 | 5.641G | 65.52 | 68.20 | -2.68 | 59.11 | 3 | Horizontal | 201 | 2.97 | - | 34.36 | 7.02 | 34.97 |
| PK | 5.744G | 116.39 | Inf | -Inf | 110.00 | 3 | Horizontal | 201 | 2.97 | - | 34.30 | 7.03 | 34.94 |
| AV | 5.744G | 101.12 | Inf | -Inf | 94.73 | 3 | Horizontal | 201 | 2.97 | - | 34.30 | 7.03 | 34.94 |
| PK | 5.929G | 62.94 | 68.20 | -5.26 | 56.19 | 3 | Horizontal | 201 | 2.97 | - | 34.59 | 7.05 | 34.89 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5775MHz_TX



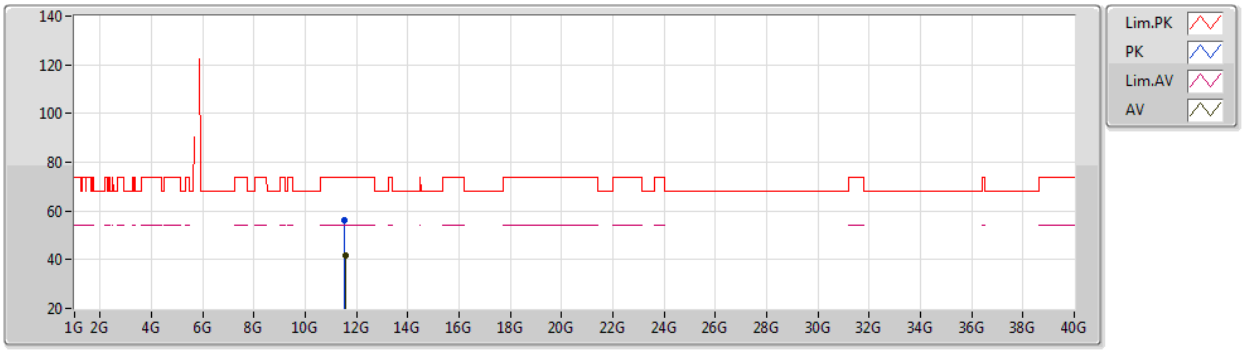

EUT Y_4TX
Setting 77
03-A-B-2

| 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 | 11.53524G | 55.58 | 74.00 | -18.42 | 41.23 | 3 | Vertical | 141 | 2.42 | - | 38.87 | 10.17 | 34.69 |
| AV | 11.56338G | 41.70 | 54.00 | -12.30 | 27.33 | 3 | Vertical | 141 | 2.42 | - | 38.89 | 10.17 | 34.69 |

## 802.11ax HEW80-BF_Nss1,(MCS0)_4TX

27/02/2020

## 5775MHz_TX




EUT Y_4TX
Setting 77
03-A-B-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 | 11.5395G | 56.30 | 74.00 | -17.70 | 41.94 | 3 | Horizontal | 280 | 1.20 | - | 38.88 | 10.17 | 34.69 |
| AV | 11.56176G | 41.93 | 54.00 | -12.07 | 27.56 | 3 | Horizontal | 280 | 1.20 | - | 38.89 | 10.17 | 34.69 |