



RADIO TEST REPORT

FCC ID : VW3FAST5285
Equipment : Wireless Router
Brand Name : SAGEMCOM
Model Name : FAST5285
Applicant : SAGEMCOM BROADBAND SAS
250 Route de l'Empereur - 92848 RUEIL
MALMAISON CEDEX- FRANCE
Manufacturer : SAGEMCOM BROADBAND SAS
250 Route de l'Empereur - 92848 RUEIL
MALMAISON CEDEX- FRANCE
Standard : 47 CFR FCC Part 15.407

The product was received on Jun. 03, 2021, and testing was started from Jun. 07, 2021 and completed on Oct. 27, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

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



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History of this test report

| Report No. | Version | Description | Issued Date |
|-------------|---------|--|---------------|
| FR061130-02 | 01 | Initial issue of report | Jul. 14, 2021 |
| FR061130-02 | 02 | 1. Re-evaluated the directional gain, 6dB, 26dB and 99%. 2. Added the plots of duty cycle. 3. Added FW version. | Aug. 27, 2021 |
| FR061130-02 | 03 | 1. Revised the description of directional gain in section 1.1.2. 2. Added the detailed description of the orientation of the device in section 2.2. | Sep. 14, 2021 |
| FR061130-02 | 04 | Revised the Max Gain of 5GHz UNII 3, UNII 4 in section 1.1.2. | Oct. 27, 2021 |
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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) | Emission Bandwidth | PASS | - |
| 3.2 | 15.407(a) | Maximum Output Power | PASS | - |
| 3.3 | 15.407(a) | Power Spectral Density | PASS | - |
| 3.4 | 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: Vicky Huang



1 General Description

1.1 Information

1.1.1 RF General Information

| Frequency Range (MHz) | IEEE Std. 802.11 | Ch. Frequency (MHz) | Channel Number |
|-----------------------|-------------------------------------|---------------------|----------------|
| 5725-5850 | a, n (HT20), ac (VHT20), ax (HEW20) | 5745-5825 | 149-165 [5] |
| 5850-5895 | | 5845-5885 | 169-177 [3] |
| 5725-5850 | n (HT40), ac (VHT40), ax (HEW40) | 5755-5795 | 151-159 [2] |
| 5850-5895 | | 5835-5875 | 167-175 [2] |
| 5725-5850 | ac (VHT80), ax (HEW80) | 5775 | 155 [1] |
| 5850-5895 | | 5855 | 171 [1] |
| 5150-5350 | ac (VHT160), ax (HEW160) | 5250 | 50 [1] |
| 5470-5725 | | 5570 | 114 [1] |
| 5850-5895 | | 5815 | 163 [1] |

| Band | Mode | BWch (MHz) | Nant |
|---------------|--------------------|------------|------|
| 5.47-5.725GHz | 802.11a | 20 | 4TX |
| 5.47-5.725GHz | 802.11n HT20 | 20 | 4TX |
| 5.47-5.725GHz | 802.11n HT20-BF | 20 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT20 | 20 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT20-BF | 20 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW20 | 20 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW20-BF | 20 | 4TX |
| 5.47-5.725GHz | 802.11n HT40 | 40 | 4TX |
| 5.47-5.725GHz | 802.11n HT40-BF | 40 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT40 | 40 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT40-BF | 40 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW40 | 40 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW40-BF | 40 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT80 | 80 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT80-BF | 80 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW80 | 80 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW80-BF | 80 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT160 | 160 | 4TX |
| 5.47-5.725GHz | 802.11ac VHT160-BF | 160 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW160 | 160 | 4TX |
| 5.47-5.725GHz | 802.11ax HEW160-BF | 160 | 4TX |
| 5.85-5.895GHz | 802.11a | 20 | 4TX |



| Band | Mode | BWch (MHz) | Nant |
|---------------|--------------------|-------------------|-------------|
| 5.85-5.895GHz | 802.11n HT20 | 20 | 4TX |
| 5.85-5.895GHz | 802.11n HT20-BF | 20 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT20 | 20 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT20-BF | 20 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW20 | 20 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW20-BF | 20 | 4TX |
| 5.85-5.895GHz | 802.11n HT40 | 40 | 4TX |
| 5.85-5.895GHz | 802.11n HT40-BF | 40 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT40 | 40 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT40-BF | 40 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW40 | 40 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW40-BF | 40 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT80 | 80 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT80-BF | 80 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW80 | 80 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW80-BF | 80 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT160 | 160 | 4TX |
| 5.85-5.895GHz | 802.11ac VHT160-BF | 160 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW160 | 160 | 4TX |
| 5.85-5.895GHz | 802.11ax HEW160-BF | 160 | 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. | Port | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|------|------------|------------------|--------------|-----------|------------|
| 1 | 1 | GALTRONICS | 02102140-07251-1 | PCB Antenna | I-PEX | Note |
| 2 | 2 | GALTRONICS | 02102140-07251-2 | PCB Antenna | I-PEX | |
| 3 | 3 | GALTRONICS | 02102140-07251-3 | PCB Antenna | I-PEX | |
| 4 | 4 | GALTRONICS | 02102140-07251-4 | PCB Antenna | I-PEX | |

Note:

| Band | Max Gain (dBi) | | | |
|---------------------|----------------|--------|--------|--------|
| | Ant. 1 | Ant. 2 | Ant. 3 | Ant. 4 |
| 2.4GHz | 4.53 | 1.21 | 3.31 | 0.95 |
| 5GHz UNII 1, 2A, 2C | 5.04 | 4.55 | 2.01 | 3.68 |
| 5GHz UNII 3 | 4.92 | 4.11 | 2.81 | 4.8 |
| 5GHz UNII 4 | 5.64 | 4.98 | 3.34 | 4.63 |

| Band | Max DG (dBi) | | |
|---|--------------|------|-------|
| | 4T1S | 4T2S | 4T4S |
| 5GHz UNII 3 (For 5GHz UNII 4 channel span UNII 3 and UNII 4 Bands) | 5.45 | 4.92 | -0.31 |

| Band | Max DG (dBi) | | |
|-------------|--------------|------|------|
| | 4T1S | 4T2S | 4T4S |
| 5GHz UNII 4 | 5.89 | 5.64 | 0.35 |

Note: The above information was declared by manufacturer.

The directional gain of the 5GHz U-NII 3 & 4 is measured which follows the procedure of KDB 662911 D03. The antenna report is provided in the operational description for this application.

For 2.4GHz WLAN function

For IEEE 802.11n/ax mode (4TX, 4RX):

Port 1、Port 2、Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1、Port 2、Port 3 and Port 4 could transmit/receive simultaneously.

For IEEE 802.11b/g mode (1TX/1RX, 4TX/4RX):

For 1TX/1RX:

Only Port 1 can be used as transmitting/receiving antenna.

For 4TX/4RX:

Port 1、Port 2、Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1、Port 2、Port 3 and Port 4 could transmit/receive simultaneously.



For 5GHz WLAN function

For IEEE 802.11a/n/ac/ax mode (4TX, 4RX):

Port 1、Port 2、Port 3 and Port 4 can be used as transmitting/receiving antenna.

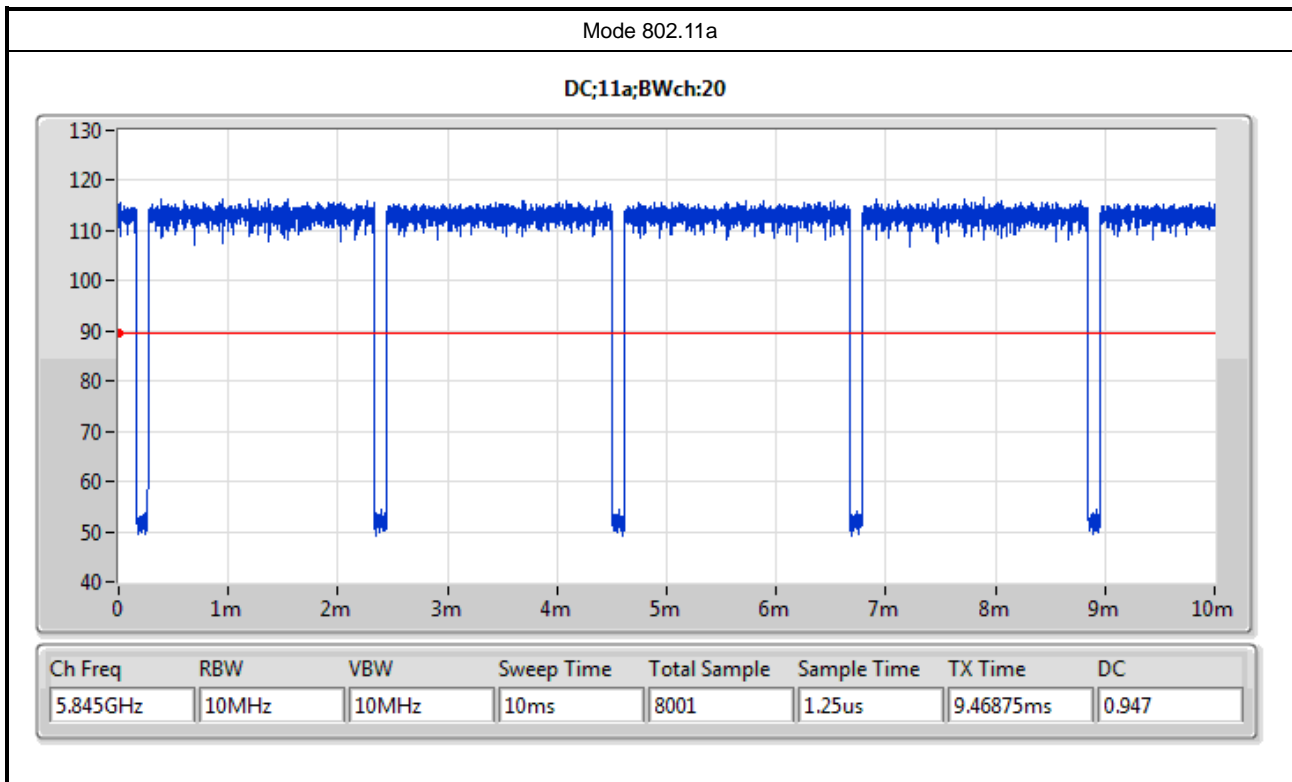
Port 1、Port 2、Port 3 and Port 4 could transmit/receive simultaneously.

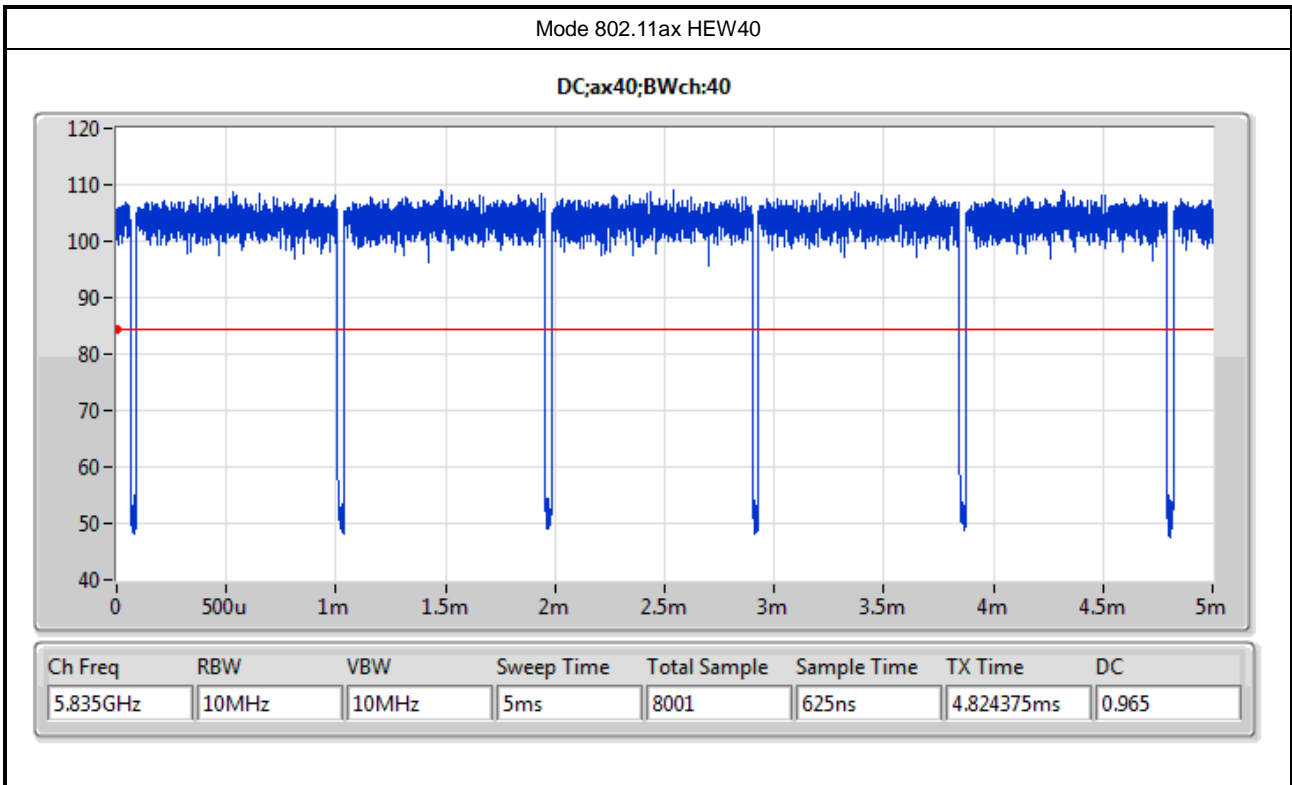
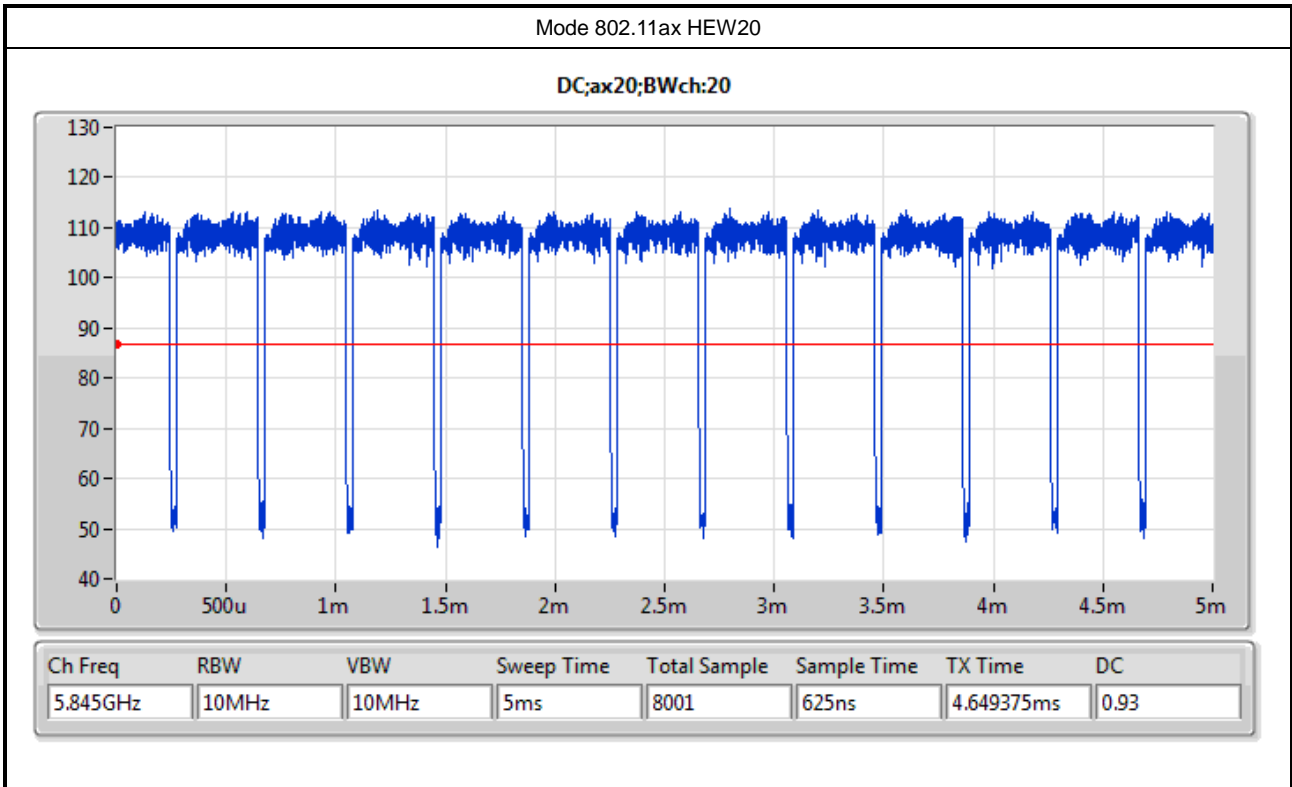
1.1.3 Mode Test Duty Cycle

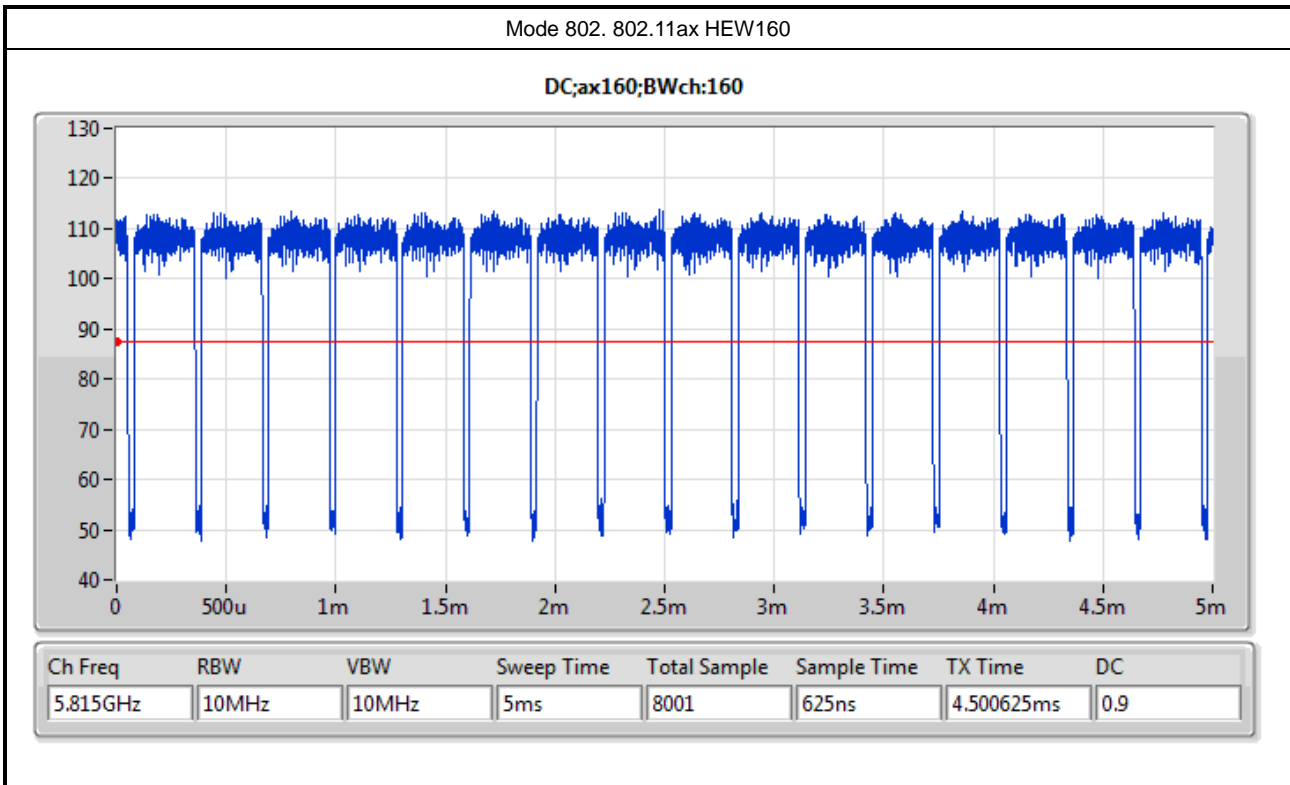
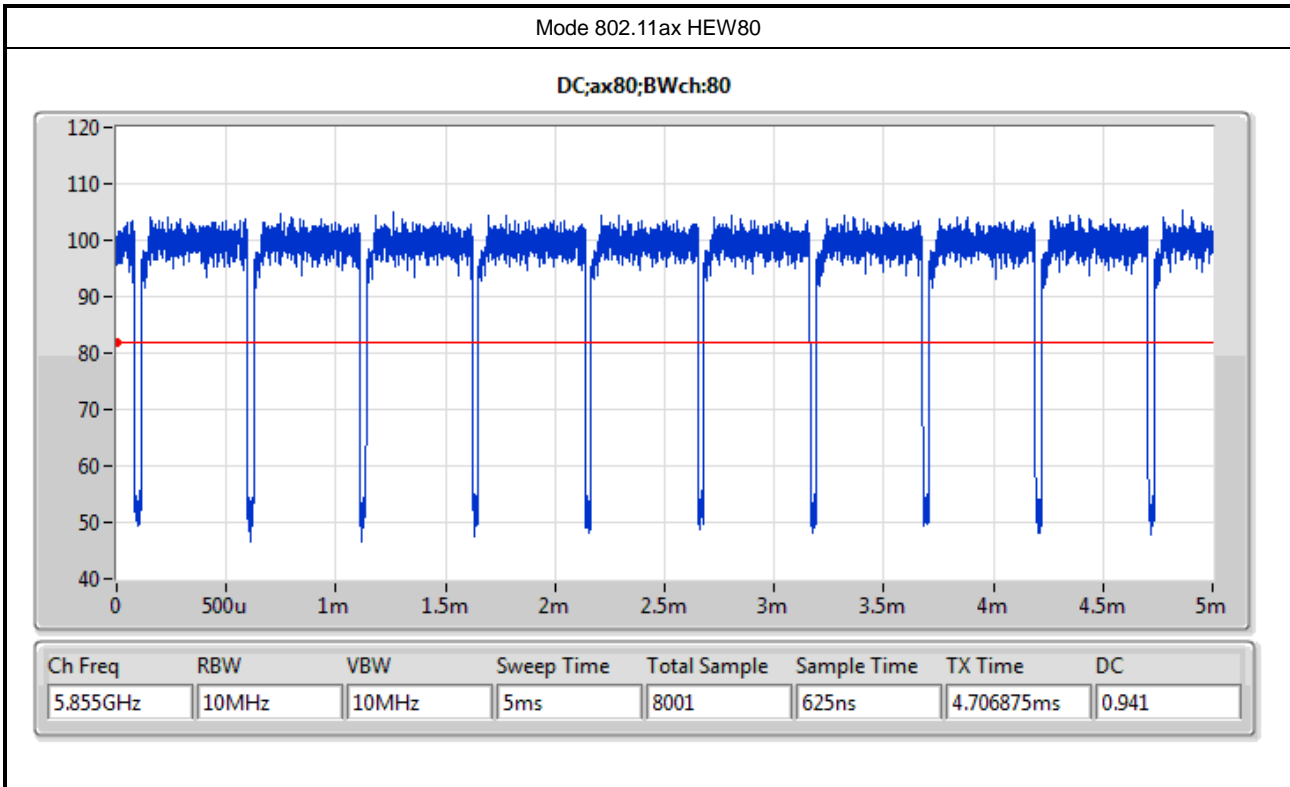
| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|-----------------|-------|---------|----------|---------------|
| 802.11a | 0.952 | 0.21 | 2.065m | 1k |
| 802.11ax HEW20 | 0.979 | 0.09 | 1.488m | 1k |
| 802.11ax HEW40 | 0.961 | 0.17 | 780.625u | 3k |
| 802.11ax HEW80 | 0.928 | 0.32 | 413.75u | 3k |
| 802.11ax HEW160 | 0.886 | 0.53 | 236.875u | 10k |

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.









1.1.4 EUT Operational Condition

| | | | | |
|------------------------------|---|------------------|-------------------------------------|---------------------|
| EUT Power Type | From Power Adapter | | | |
| Beamforming Function | <input checked="" type="checkbox"/> | With beamforming | <input type="checkbox"/> | Without beamforming |
| | The product has beamforming function for 802.11 n/ax in 2.4G and 802.11n/ac/ax in 5GHz. | | | |
| Function | <input type="checkbox"/> | Outdoor P2M | <input checked="" type="checkbox"/> | Indoor P2M |
| | <input type="checkbox"/> | Fixed P2P | <input type="checkbox"/> | Client |
| Test Software Version | Mtool 3.2.1.1 | | | |
| Firmware Version | 5.02L.07p1F5285_5d9fc8d_20210421-1125 | | | |

Note: The above information was declared by manufacturer.

1.1.5 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR061130-01.

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

| Modifications | Performance Checking |
|-------------------------------------|--|
| Adding 5850~5895MHz for the device. | 1. Emission Bandwidth 2. Maximum Conducted Output Power 3. Peak Power Spectral Density 4. Unwanted Emissions <Above 1GHz> |



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 662911 D03 v01

1.3 Testing Location Information

| Testing Location Information | |
|---|--|
| Test Lab. : Sporton International Inc. Hsinchu Laboratory | |
| Hsinchu | ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) |
| (TAF: 3787) | TEL: 886-3-656-9065 FAX: 886-3-656-9085 |
| | Test site Designation No. TW3787 with FCC. |
| | Conformity Assessment Body Identifier (CABID) TW3787 with ISED. |

| Test Condition | Test Site No. | Test Engineer | Test Environment (°C / %) | Test Date |
|----------------|---------------|---------------|---------------------------|---------------------------------|
| RF Conducted | TH03-CB | Brian Sun | 20.8~21.3 / 56~61 | Jun. 12, 2021~ Oct. 27, 2021 |
| Radiated | 03CH03-CB | Nyle Chang | 25.3~27.6 / 65~69 | Jun. 07, 2021 |

1.4 Measurement Uncertainty

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

| Test Items | Uncertainty | Remark |
|-----------------------------------|-------------|--------------------------|
| Radiated Emission (1GHz ~ 18GHz) | 4.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 4.2 dB | Confidence levels of 95% |
| Conducted Emission | 2.5 dB | Confidence levels of 95% |
| Output Power Measurement | 1.3 dB | Confidence levels of 95% |
| Power Density Measurement | 2.5 dB | Confidence levels of 95% |
| Bandwidth Measurement | 0.9% | Confidence levels of 95% |



2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

| Mode | Power Setting |
|---------------------------------|---------------|
| 802.11a_Nss1,(6Mbps)_4TX | - |
| 5845MHz Straddle 5.725-5.85GHz | 87 |
| 5845MHz Straddle 5.85-5.895GHz | 87 |
| 5865MHz | 87 |
| 5885MHz | 87 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - |
| 5845MHz Straddle 5.725-5.85GHz | 89 |
| 5845MHz Straddle 5.85-5.895GHz | 89 |
| 5865MHz | 89 |
| 5885MHz | 89 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - |
| 5835MHz Straddle 5.725-5.85GHz | 102 |
| 5835MHz Straddle 5.85-5.895GHz | 102 |
| 5875MHz | 103 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - |
| 5855MHz Straddle 5.725-5.85GHz | 102 |
| 5855MHz Straddle 5.85-5.895GHz | 102 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - |
| 5815MHz Straddle 5.725-5.85GHz | 66 |
| 5815MHz Straddle 5.85-5.895GHz | 66 |



<beamforming mode>

| Mode | Power Setting |
|------------------------------------|---------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | - |
| 5845MHz Straddle 5.725-5.85GHz | 89 |
| 5845MHz Straddle 5.85-5.895GHz | 89 |
| 5865MHz | 89 |
| 5885MHz | 89 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | - |
| 5835MHz Straddle 5.725-5.85GHz | 102 |
| 5835MHz Straddle 5.85-5.895GHz | 102 |
| 5875MHz | 101 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | - |
| 5855MHz Straddle 5.725-5.85GHz | 102 |
| 5855MHz Straddle 5.85-5.895GHz | 102 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | - |
| 5815MHz Straddle 5.725-5.85GHz | 66 |
| 5815MHz Straddle 5.85-5.895GHz | 66 |

Note:

- ◆ There are two functions of EUT, one is beamforming function, and the other is CDD mode function for 802.11 n/ax in 2.4G and 802.11n/ac/ax in 5GHz.
- ◆ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all items of CDD mode are evaluated in the report. The beamforming mode only evaluates the output power.



2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests | |
|---|--|
| Tests Item | Emission Bandwidth Maximum Output Power Power Spectral Density |
| Test Condition | Conducted measurement at transmit chains |

| The Worst Case Mode for Following Conformance Tests | |
|---|---|
| Tests Item | Unwanted Emissions |
| Test Condition | Radiated measurement 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 |

Note:

According to the usage instructions, the EUT must be used in a vertical orientation on a flat surface. Therefore, there is only the Y axis position was tested. The user manual is provided for this application.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

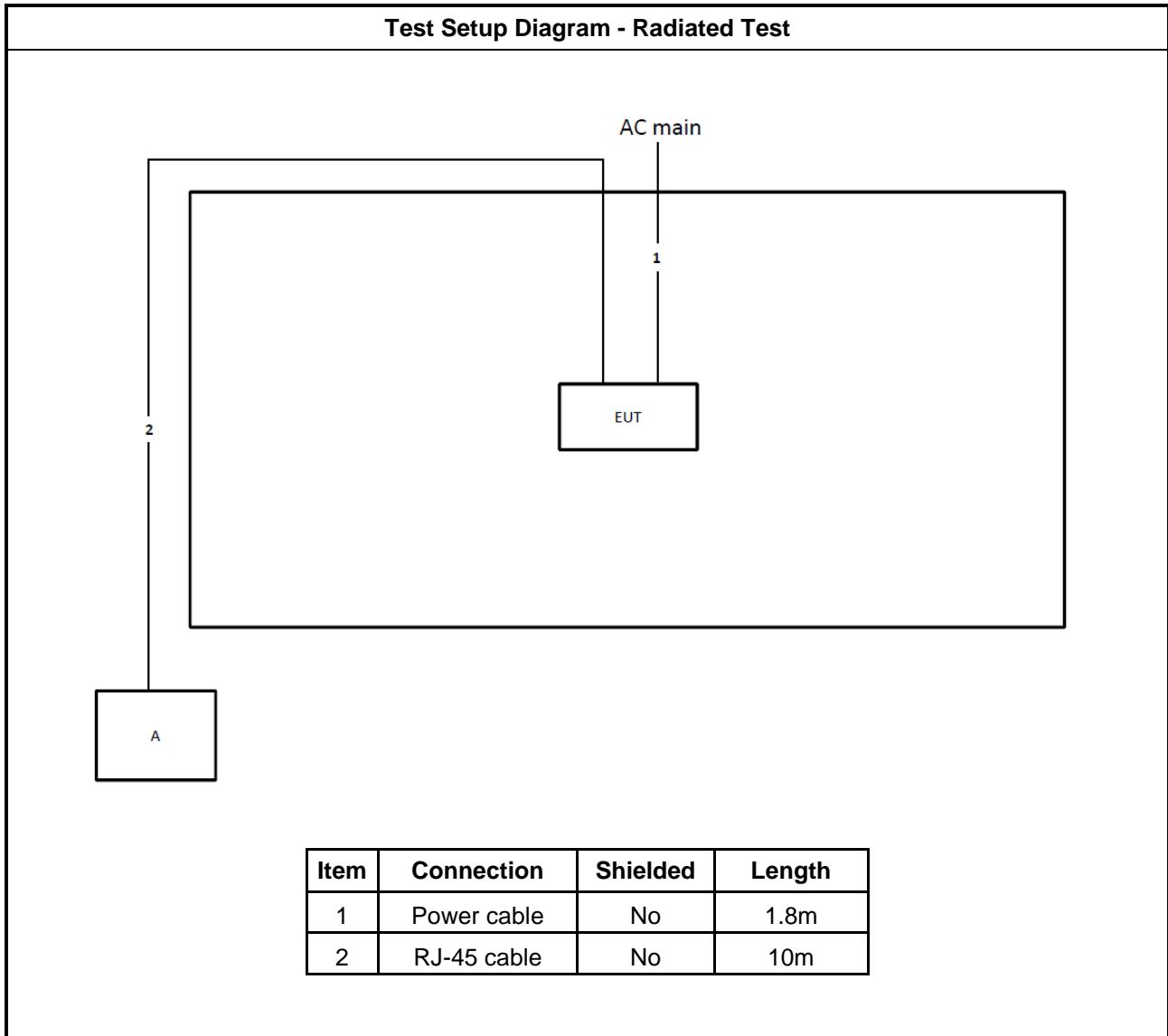
2.4 Accessories

| Accessories | | | |
|-----------------------------------|------------|----------------|---|
| Equipment Name | Brand Name | Model Name | Rating |
| Adapter 1 | DELTA | ADH-36EW B | Input: 100-125V~1.5A, 50-60Hz Output:12.0V, 3.0A |
| Adapter 2 | NetBit | NBS36J120300VU | Input: 100-120V~, 50/60Hz, 1.0A Output:12.0V, 3.0A |
| Other | | | |
| RJ-45 Cable*1, non-shielded, 1.8m | | | |

2.5 Support Equipment

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

2.6 Test Setup Diagram





3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 Emission Bandwidth Limit

| Emission Bandwidth Limit | |
|-------------------------------------|---|
| UNII Devices | |
| <input type="checkbox"/> | For the 5.15-5.25 GHz band, N/A |
| <input type="checkbox"/> | For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| <input type="checkbox"/> | For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. |
| <input checked="" type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz. |
| <input checked="" type="checkbox"/> | For the 5.85-5.895 GHz band, 6 dB emission bandwidth \geq 500kHz. |
| LE-LAN Devices | |
| <input type="checkbox"/> | For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | 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 |
| <input type="checkbox"/> | For the 5.725-5.85 GHz band, 6 dB emission bandwidth \geq 500kHz. |

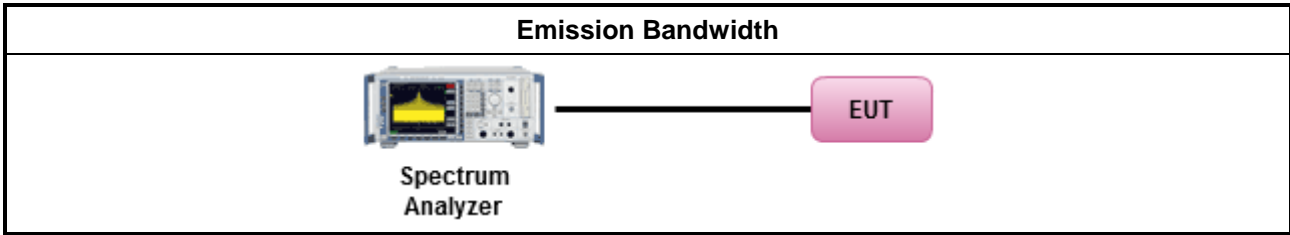
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

| Test Method | |
|--|---|
| ▪ For the emission bandwidth shall be measured using one of the options below: | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement. |
| <input type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing. |
| <input type="checkbox"/> | Refer as IC RSS-Gen, clause 4.6 for bandwidth testing. |

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Output Power

3.2.1 Limit

| Maximum Output Power Limit | |
|--|--|
| UNII Devices | |
| <input type="checkbox"/> For the 5.15-5.25 GHz band: | |
| | <ul style="list-style-type: none"> ▪ 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 $\leq 125mW$ [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 $P_{Out} = 24 - (G_{TX} - 6)$. |
| <input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$. | |
| <input type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$. | |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ 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. |
| Maximum EIRP Limit | |
| <input checked="" type="checkbox"/> For the 5.85-5.895 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Indoor AP & subordinate device < 36 dBm ▪ Client device < 30 dBm |
| LE-LAN Devices | |
| <input type="checkbox"/> 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. | |
| <input type="checkbox"/> 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 | |
| <input type="checkbox"/> 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 | |

| | |
|--|---|
| <input type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ 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, G_{TX} = the maximum transmitting antenna directional gain in dBi. | |

3.2.2 Measuring Instruments

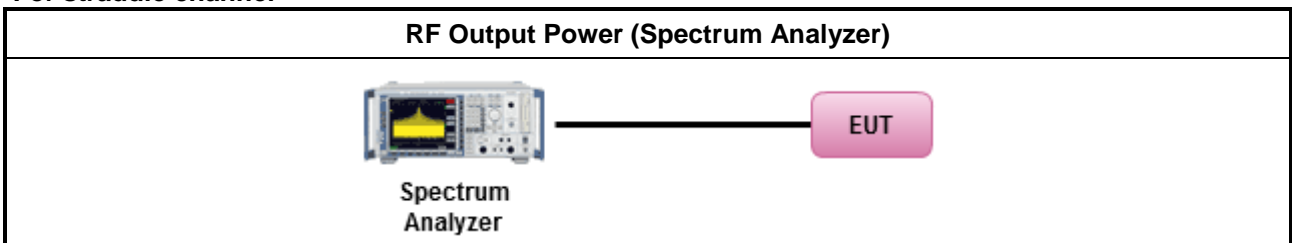
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

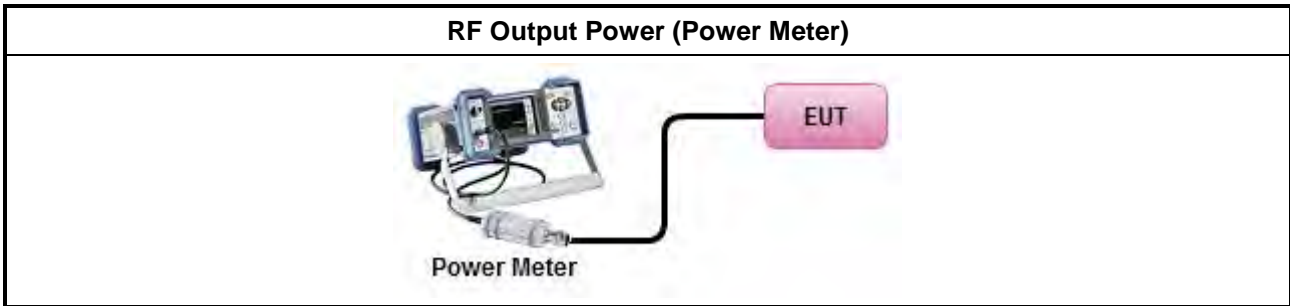
| Test Method | |
|--|--|
| <ul style="list-style-type: none"> ▪ Maximum Conducted Output Power | |
| | Average over on/off periods with duty factor |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| | <input type="checkbox"/> Refer 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 |
| | <input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter). |
| <ul style="list-style-type: none"> ▪ For conducted measurement. | |
| | <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ |

3.2.4 Test Setup

For straddle channel



For others channel



3.2.5 Test Result of Maximum Output Power

Refer as Appendix B



3.3 Power Spectral Density

3.3.1 Limit

| Peak Power Spectral Density Limit | |
|--|--|
| UNII Devices | |
| <input type="checkbox"/> For the 5.15-5.25 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. ▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. ▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$. |
| <input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$. | |
| <input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$. | |
| <input checked="" type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |
| EIRP Power Spectral Density Limit | |
| <input checked="" type="checkbox"/> For the 5.85-5.895 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Indoor AP & subordinate device < 20dBm/MHz ▪ Client device < 14dBm/MHz |
| LE-LAN Devices | |
| <input type="checkbox"/> For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz. | |
| <input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. | |
| | <ul style="list-style-type: none"> ▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$ |
| <input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. | |
| <input type="checkbox"/> For the 5.725-5.85 GHz band: | |
| | <ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. ▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. |



PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz
G_{TX} = the maximum transmitting antenna directional gain in dBi.

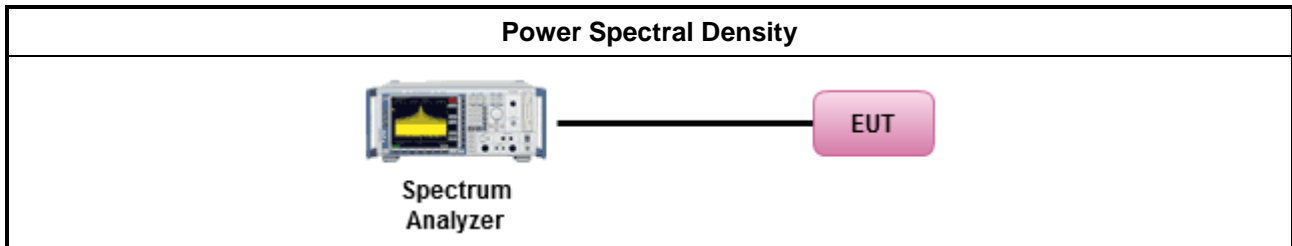
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

| Test Method | |
|-------------------------------------|--|
| | <ul style="list-style-type: none"> ▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options: |
| <input type="checkbox"/> | Refer as FCC KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth |
| | [duty cycle ≥ 98% or external video / power trigger] |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) |
| | duty cycle < 98% and average over on/off periods with duty factor |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging). |
| <input type="checkbox"/> | Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed) |
| | <ul style="list-style-type: none"> ▪ For conducted measurement. |
| | <ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: |
| <input checked="" type="checkbox"/> | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/> | Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits, |
| <input type="checkbox"/> | Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit. |
| | <ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$ |

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 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 |
| <input type="checkbox"/> 5.15 - 5.25 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m @3m] |
| <input type="checkbox"/> 5.25 - 5.35 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m @3m] |
| <input type="checkbox"/> 5.47 - 5.725 GHz | e.i.r.p. -27 dBm [68.2 dBuV/m @3m] |
| <input checked="" type="checkbox"/> 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. |
| <input checked="" type="checkbox"/> 5.85 - 5.895 GHz | (i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an |



| | |
|--|--|
| | <p>e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz.</p> <p>(iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.</p> |
| <p>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).</p> | |

3.4.2 Measuring Instruments

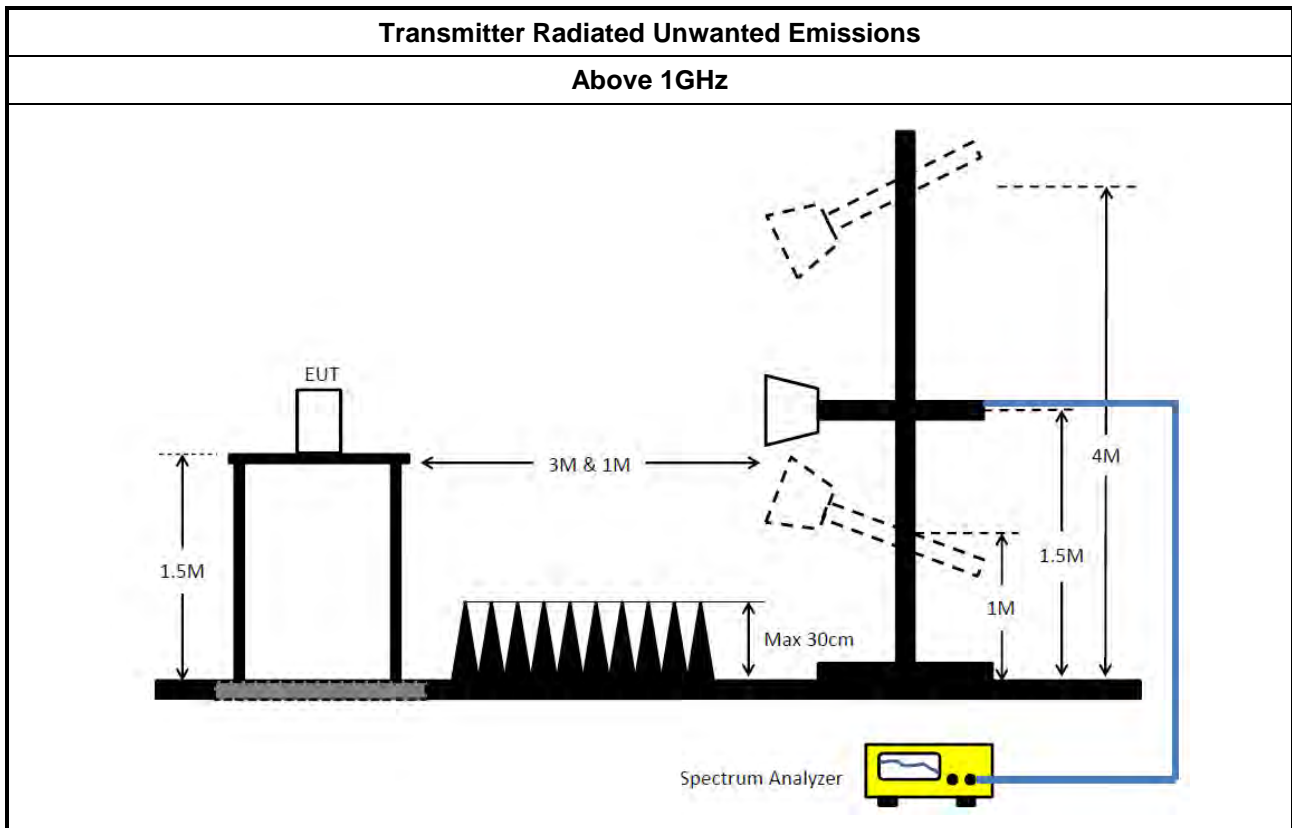
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

| Test Method | | | | | | | | | | | | | |
|-------------------------------------|---|--------------------------|--|-------------------------------------|--|--------------------------|---|--------------------------|---|-------------------------------------|--|--------------------------|--|
| | <ul style="list-style-type: none"> ▪ 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). | | | | | | | | | | | | |
| | <ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. | | | | | | | | | | | | |
| | <ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: <ul style="list-style-type: none"> ▪ 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. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%; text-align: center;"><input type="checkbox"/></td> <td>Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.</td> </tr> </table> | <input type="checkbox"/> | Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). | <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW). | <input type="checkbox"/> | Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. | <input type="checkbox"/> | Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. | <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit. | <input type="checkbox"/> | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. |
| <input type="checkbox"/> | Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging). | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW). | | | | | | | | | | | | |
| <input type="checkbox"/> | Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time. | | | | | | | | | | | | |
| <input type="checkbox"/> | Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions. | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit. | | | | | | | | | | | | |
| <input type="checkbox"/> | Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit. | | | | | | | | | | | | |
| | <ul style="list-style-type: none"> ▪ For radiated measurement. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td> <ul style="list-style-type: none"> ▪ 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. </td> </tr> </table> | | <ul style="list-style-type: none"> ▪ 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. | | | | | | | | | | |
| | <ul style="list-style-type: none"> ▪ 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.

3.4.4 Test Setup



3.4.5 Measurement Results Calculation

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

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

| Instrument | Brand | Model No. | Serial No. | Characteristics | Calibration Date | Calibration Due Date | Remark |
|-------------------------------|----------------|-------------------|---------------------|-------------------|------------------|----------------------|--------------------------|
| 3m Semi Anechoic Chamber VSWR | TDK | SAC-3M | 03CH03-CB | 1GHz ~18GHz 3m | May 06, 2021 | May 05, 2022 | Radiation (03CH03-CB) |
| Horn Antenna | ETS • Lindgren | 3115 | 6821 | 750MHz~ 18GHz | Jan. 26, 2021 | Jan. 25, 2022 | Radiation (03CH03-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2020 | Jul. 20, 2021 | Radiation (03CH03-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02097 | 1GHz ~ 26.5GHz | Jul. 03, 2020 | Jul. 02, 2021 | Radiation (03CH03-CB) |
| Pre-Amplifier | MITEQ | TTA1840-35-H G | 1864479 | 18GHz ~ 40GHz | Jul. 08, 2020 | Jul. 07, 2021 | Radiation (03CH03-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100019 | 9kHz ~ 40GHz | Jun. 04, 2021 | Jun. 03, 2022 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-20+29 | 1GHz ~ 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#1 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-29 | 1GHz ~ 18GHz | Oct. 05, 2020 | Oct. 04, 2021 | Radiation (03CH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-40G#2 | 18GHz ~ 40 GHz | Jul. 16, 2020 | Jul. 15, 2021 | Radiation (03CH03-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Radiation (03CH03-CB) |
| Spectrum analyzer | R&S | FSV40 | 101028 | 9kHz~40GHz | Dec. 31, 2020 | Dec. 30, 2021 | Conducted (TH03-CB) |
| Power Sensor | Anritsu | MA2411B | 1726195 | 300MHz~ 40GHz | Aug. 17, 2020 | Aug. 16, 2021 | Conducted (TH03-CB) |
| Power Sensor | Anritsu | MA2411B | 1531344 | 300MHz~ 40GHz | Jul. 27, 2021 | Jul. 26, 2022 | Conducted (TH03-CB) |
| Power Meter | Anritsu | ML2495A | 1035008 | 300MHz~ 40GHz | Aug. 17, 2020 | Aug. 16, 2021 | Conducted (TH03-CB) |
| Power Meter | Anritsu | ML2495A | 1728002 | 300MHz~ 40GHz | Jul. 27, 2021 | Jul. 26, 2022 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-11 | 1 GHz ~18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-11 | 1 GHz ~18 GHz | Oct. 04, 2021 | Oct. 03, 2022 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-12 | 1 GHz ~18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-12 | 1 GHz ~18 GHz | Oct. 04, 2021 | Oct. 03, 2022 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-13 | 1 GHz ~18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |



| | | | | | | | |
|---------------|---------|-------|---------------|---------------|---------------|---------------|---------------------|
| RF Cable-high | Woken | RG402 | High Cable-13 | 1 GHz –18 GHz | Oct. 04, 2021 | Oct. 03, 2022 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-14 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-14 | 1 GHz –18 GHz | Oct. 04, 2021 | Oct. 03, 2022 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-15 | 1 GHz –18 GHz | Oct. 05, 2020 | Oct. 04, 2021 | Conducted (TH03-CB) |
| RF Cable-high | Woken | RG402 | High Cable-15 | 1 GHz –18 GHz | Oct. 04, 2021 | Oct. 03, 2022 | Conducted (TH03-CB) |
| Test Software | SPORTON | SENSE | V5.10 | - | N.C.R. | N.C.R. | Conducted (TH03-CB) |

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

NCR means Non-Calibration required.



Summary

| Mode | Max-N dB (Hz) | ITU-Code | Min-N dB (Hz) |
|---------------------------------|------------------|----------|------------------|
| 5.85-5.895GHz | - | - | - |
| 802.11a_Nss1,(6Mbps)_4TX | 16.35M | 16M3D1D | 16.35M |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 18.99M | 19M0D1D | 18.9M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 37.62M | 37M6D1D | 32.94M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 76.32M | 76M3D1D | 75.24M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 155.16M | 155MD1D | 154.98M |

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



Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 2-N dB (Hz) | Port 3-N dB (Hz) | Port 4-N dB (Hz) |
|---------------------------------|--------|------------|------------------|------------------|------------------|------------------|
| 802.11a_Nss1,(6Mbps)_4TX | - | - | - | - | - | - |
| 5845MHz | Pass | 500k | 16.35M | 16.35M | 16.35M | 16.35M |
| 5865MHz | Pass | 500k | 16.35M | 16.32M | 16.35M | 16.35M |
| 5885MHz | Pass | 500k | 16.35M | 16.32M | 16.35M | 16.35M |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - | - | - | - | - | - |
| 5845MHz | Pass | 500k | 18.99M | 18.9M | 18.9M | 18.99M |
| 5865MHz | Pass | 500k | 18.99M | 18.99M | 18.9M | 19.02M |
| 5885MHz | Pass | 500k | 18.99M | 18.96M | 18.9M | 18.96M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - |
| 5835MHz | Pass | 500k | 37.56M | 36.6M | 37.5M | 37.38M |
| 5875MHz | Pass | 500k | 37.62M | 36.3M | 37.56M | 37.38M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - |
| 5855MHz | Pass | 500k | 76.08M | 76.32M | 75.24M | 75.36M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - |
| 5815MHz | Pass | 500k | 155.16M | 155.16M | 154.98M | 155.16M |

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

802.11a_Nss1,(6Mbps)_4TX

EBW

5845MHz

24/08/2021

CF
5.835GHz

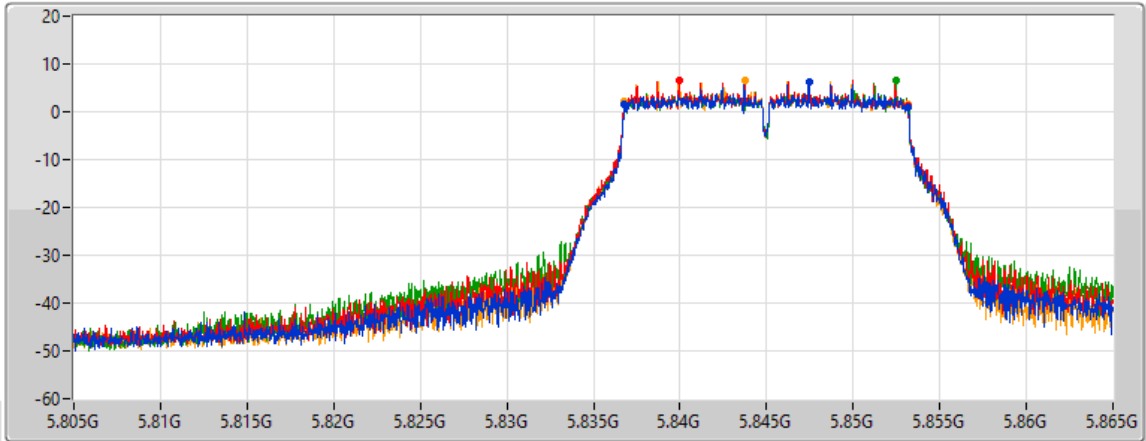
Span
60MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 16.35M | 5.8368G | 5.85315G | 500k | 1 |
| 16.35M | 5.8368G | 5.85315G | 500k | 2 |
| 16.35M | 5.8368G | 5.85315G | 500k | 3 |
| 16.35M | 5.8368G | 5.85315G | 500k | 4 |

802.11a_Nss1,(6Mbps)_4TX

EBW

5865MHz

24/08/2021

CF
5.865GHz

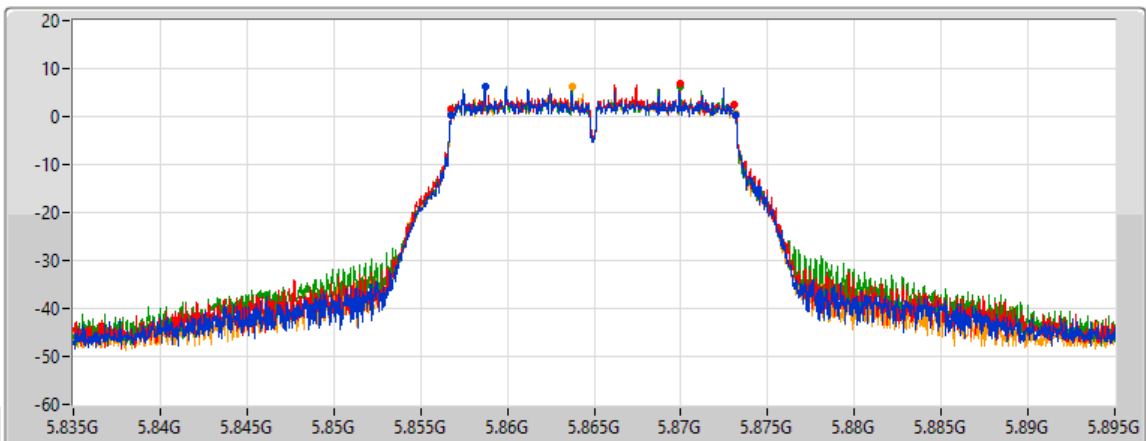
Span
60MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 16.35M | 5.85678G | 5.87313G | 500k | 1 |
| 16.32M | 5.85678G | 5.8731G | 500k | 2 |
| 16.35M | 5.85678G | 5.87313G | 500k | 3 |
| 16.35M | 5.85678G | 5.87313G | 500k | 4 |

802.11a_Nss1,(6Mbps)_4TX

EBW

5885MHz

24/08/2021

CF
5.885GHz

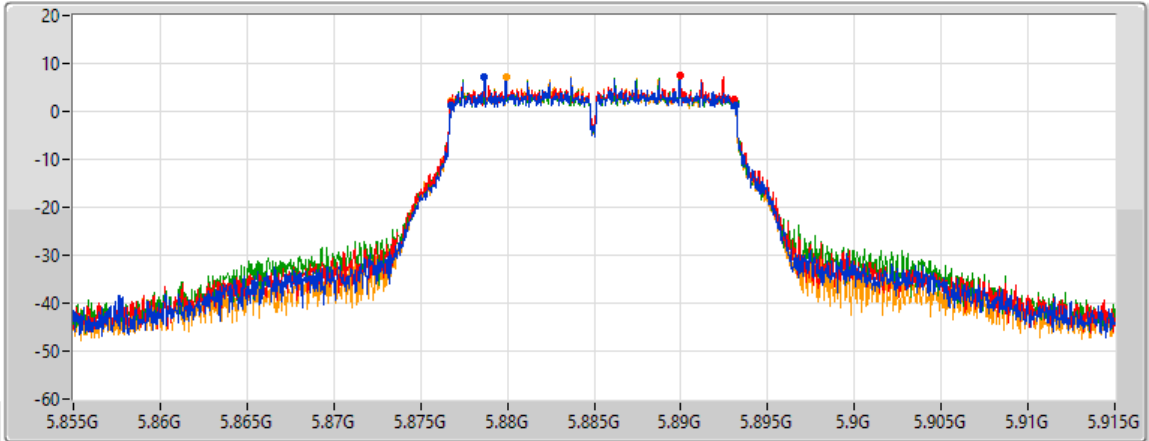
Span
60MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 16.35M | 5.87678G | 5.89313G | 500k | 1 |
| 16.32M | 5.87678G | 5.8931G | 500k | 2 |
| 16.35M | 5.87678G | 5.89313G | 500k | 3 |
| 16.35M | 5.87678G | 5.89313G | 500k | 4 |

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5845MHz

24/08/2021

CF
5.835GHz

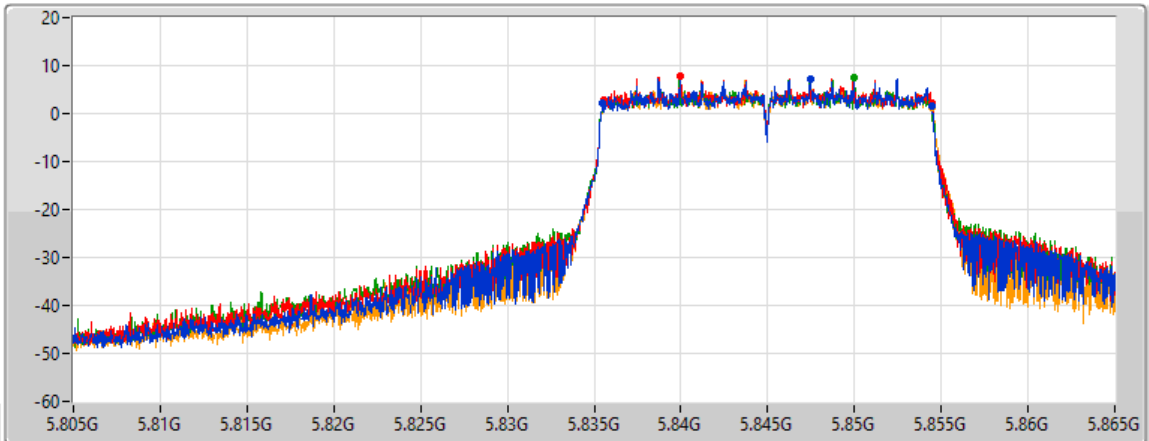
Span
60MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 18.99M | 5.83548G | 5.85447G | 500k | 1 |
| 18.9M | 5.83554G | 5.85444G | 500k | 2 |
| 18.9M | 5.83551G | 5.85441G | 500k | 3 |
| 18.99M | 5.83551G | 5.8545G | 500k | 4 |

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5865MHz

24/08/2021

CF
5.865GHz

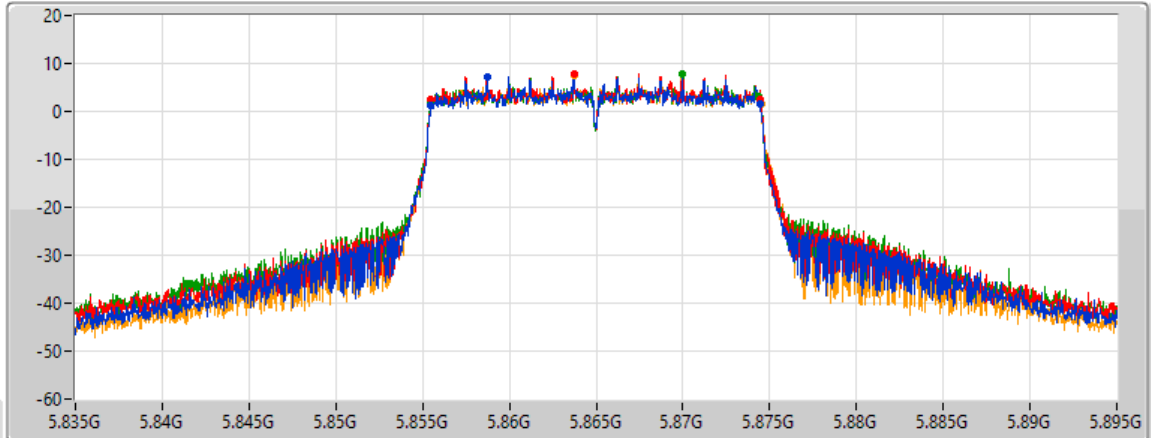
Span
60MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 18.99M | 5.85546G | 5.87445G | 500k | 1 |
| 18.99M | 5.85549G | 5.87448G | 500k | 2 |
| 18.9M | 5.85549G | 5.87439G | 500k | 3 |
| 19.02M | 5.85549G | 5.87451G | 500k | 4 |

802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5885MHz

24/08/2021

CF
5.885GHz

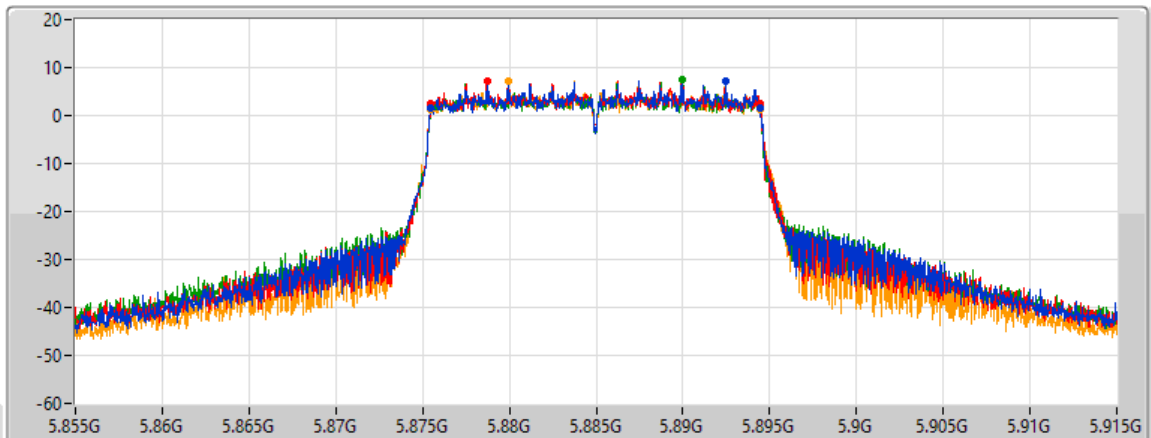
Span
60MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 18.99M | 5.87546G | 5.89445G | 500k | 1 |
| 18.96M | 5.87549G | 5.89445G | 500k | 2 |
| 18.9M | 5.87552G | 5.89442G | 500k | 3 |
| 18.96M | 5.87549G | 5.89445G | 500k | 4 |

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5835MHz

24/08/2021

CF
5.82GHz

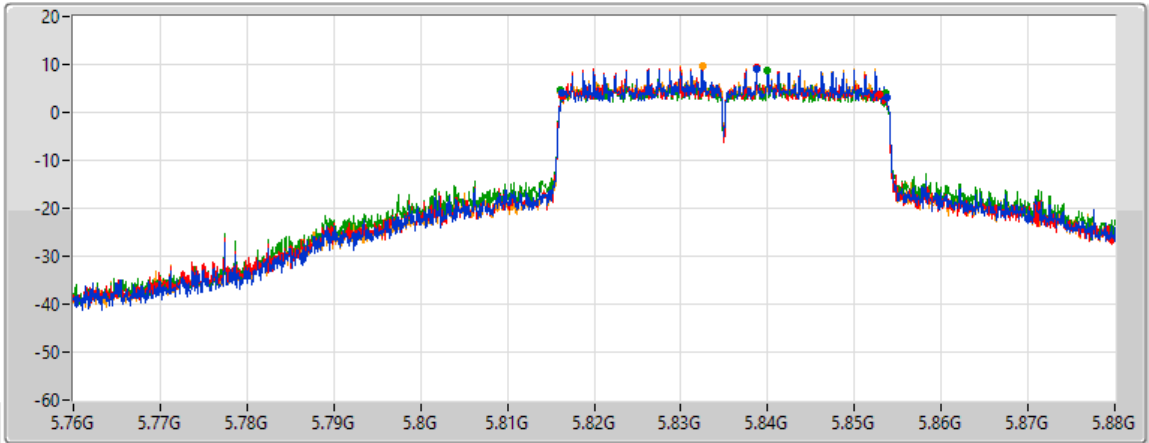
Span
120MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 37.56M | 5.81622G | 5.85378G | 500k | 1 |
| 36.6M | 5.81634G | 5.85294G | 500k | 2 |
| 37.5M | 5.81616G | 5.85366G | 500k | 3 |
| 37.38M | 5.81616G | 5.85354G | 500k | 4 |

802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5875MHz

24/08/2021

CF
5.875GHz

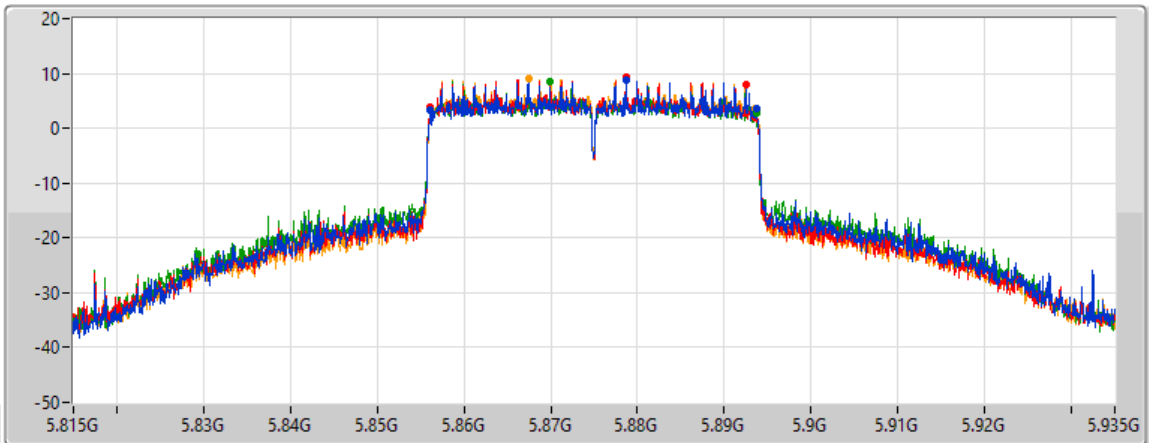
Span
120MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 37.62M | 5.8561G | 5.89372G | 500k | 1 |
| 36.3M | 5.85616G | 5.89246G | 500k | 2 |
| 37.56M | 5.85616G | 5.89372G | 500k | 3 |
| 37.38M | 5.85616G | 5.89354G | 500k | 4 |

802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5855MHz

24/08/2021

CF
5.79GHz

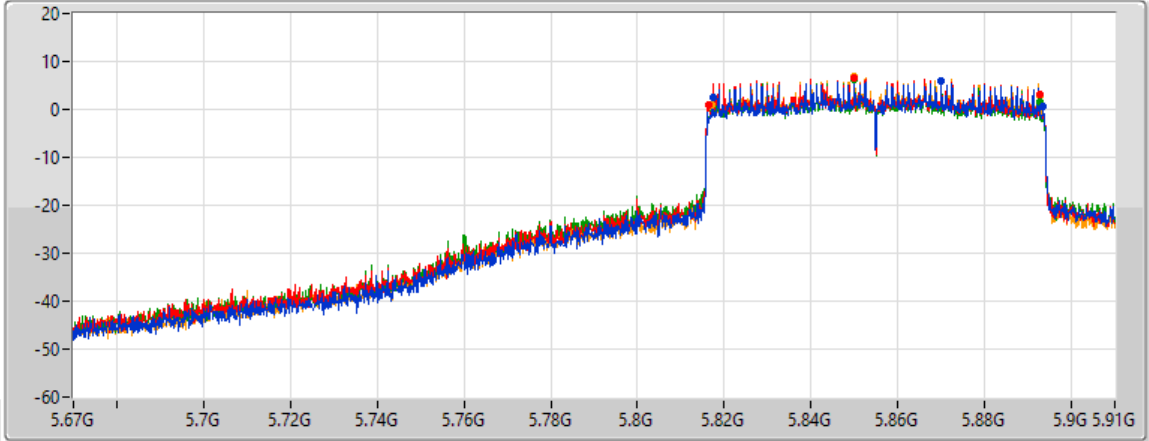
Span
240MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 76.08M | 5.81736G | 5.89344G | 500k | 1 |
| 76.32M | 5.81628G | 5.8926G | 500k | 2 |
| 75.24M | 5.81736G | 5.8926G | 500k | 3 |
| 75.36M | 5.81724G | 5.8926G | 500k | 4 |

802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

5815MHz

24/08/2021

CF
5.76GHz

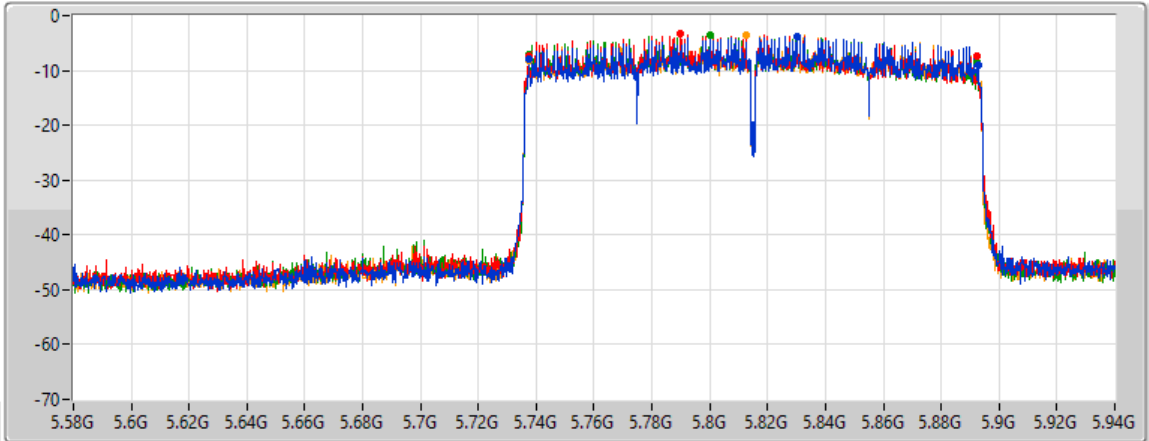
Span
360MHz


RBW
100kHz


VBW
300kHz


Sweep Time
100ms


Detector Type
Peak



Port 1 

Port 2 

Port 3 

Port 4 

| 6dB(Hz) | Fl-6dB(Hz) | Fh-6dB(Hz) | Limit(Hz) | Port |
|---------|------------|------------|-----------|------|
| 155.16M | 5.7375G | 5.89266G | 500k | 1 |
| 155.16M | 5.73732G | 5.89248G | 500k | 2 |
| 154.98M | 5.7375G | 5.89248G | 500k | 3 |
| 155.16M | 5.73732G | 5.89248G | 500k | 4 |



Summary

| Mode | Max-N dB (Hz) | Max-OBW (Hz) | ITU-Code | Min-N dB (Hz) | Min-OBW (Hz) |
|---------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.85-5.895GHz | - | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_4TX | 21.96M | 17.181M | 17M2D1D | 21.42M | 16.882M |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 22.98M | 19.22M | 19M2D1D | 21.42M | 19.07M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 73.98M | 39.76M | 39M8D1D | 46.92M | 34.063M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 119.16M | 78.201M | 78M2D1D | 106.56M | 77.721M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 165.06M | 155.262M | 155MD1D | 163.08M | 155.082M |

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



Result

| Mode | Result | Limit (Hz) | Port 1-N dB (Hz) | Port 1-OBW (Hz) | Port 2-N dB (Hz) | Port 2-OBW (Hz) | Port 3-N dB (Hz) | Port 3-OBW (Hz) | Port 4-N dB (Hz) | Port 4-OBW (Hz) |
|---------------------------------|--------|------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a_Nss1,(6Mbps)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz | Pass | Inf | 21.51M | 17.061M | 21.48M | 17.151M | 21.66M | 17.061M | 21.48M | 16.912M |
| 5865MHz | Pass | Inf | 21.54M | 17.061M | 21.48M | 17.151M | 21.63M | 17.061M | 21.42M | 16.882M |
| 5885MHz | Pass | Inf | 21.42M | 17.091M | 21.51M | 17.181M | 21.96M | 17.151M | 21.48M | 16.882M |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz | Pass | Inf | 21.66M | 19.1M | 21.51M | 19.13M | 22.08M | 19.16M | 21.78M | 19.19M |
| 5865MHz | Pass | Inf | 21.72M | 19.1M | 21.72M | 19.19M | 22.98M | 19.19M | 21.78M | 19.19M |
| 5885MHz | Pass | Inf | 21.66M | 19.13M | 21.42M | 19.16M | 22.35M | 19.19M | 21.63M | 19.22M |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5835MHz | Pass | Inf | 66.96M | 38.381M | 57.72M | 38.381M | 76.74M | 39.22M | 65.7M | 38.261M |
| 5875MHz | Pass | Inf | 73.98M | 38.681M | 57.06M | 38.381M | 73.26M | 39.76M | 62.34M | 38.261M |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5855MHz | Pass | Inf | 109.68M | 77.841M | 106.56M | 77.841M | 119.16M | 78.201M | 106.92M | 77.721M |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5815MHz | Pass | Inf | 164.34M | 155.262M | 165.06M | 155.262M | 163.44M | 155.082M | 163.08M | 155.082M |

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

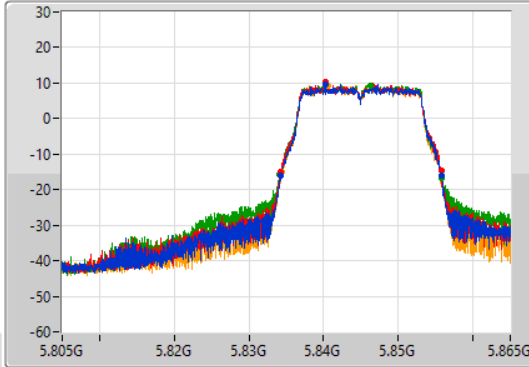
802.11a_Nss1,(6Mbps)_4TX

EBW

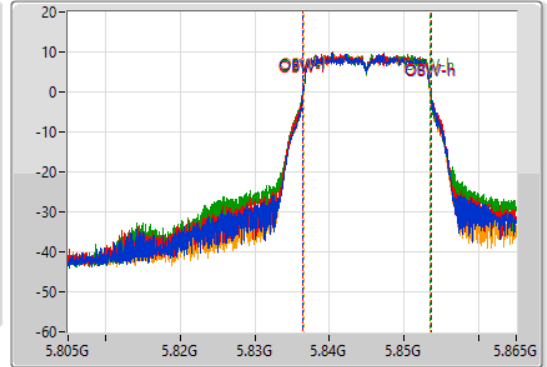
5845MHz

24/08/2021

CF
5.835GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.835GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 21.51M | 5.83431G | 5.85582G | 17.061M | 5.836499G | 5.853561G | Inf | 1 |
| 21.48M | 5.83425G | 5.85573G | 17.151M | 5.836439G | 5.853591G | Inf | 2 |
| 21.66M | 5.83413G | 5.85579G | 17.061M | 5.836409G | 5.853471G | Inf | 3 |
| 21.48M | 5.83434G | 5.85582G | 16.912M | 5.836529G | 5.853441G | Inf | 4 |

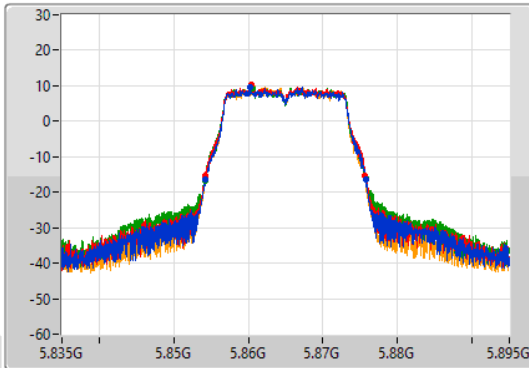
802.11a_Nss1,(6Mbps)_4TX

EBW

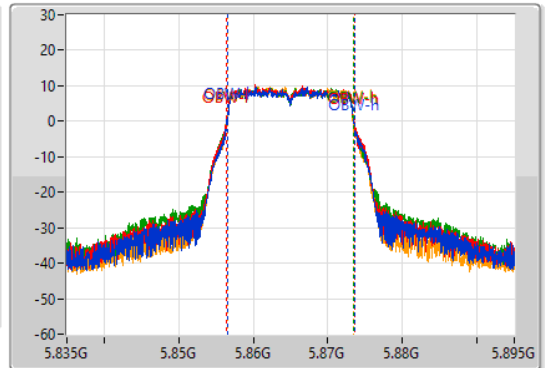
5865MHz

24/08/2021

CF
5.865GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.865GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 21.54M | 5.85426G | 5.8758G | 17.061M | 5.856484G | 5.873546G | Inf | 1 |
| 21.48M | 5.8542G | 5.87568G | 17.151M | 5.856424G | 5.873576G | Inf | 2 |
| 21.63M | 5.85414G | 5.87577G | 17.061M | 5.856424G | 5.873486G | Inf | 3 |
| 21.42M | 5.85429G | 5.87571G | 16.882M | 5.856514G | 5.873396G | Inf | 4 |

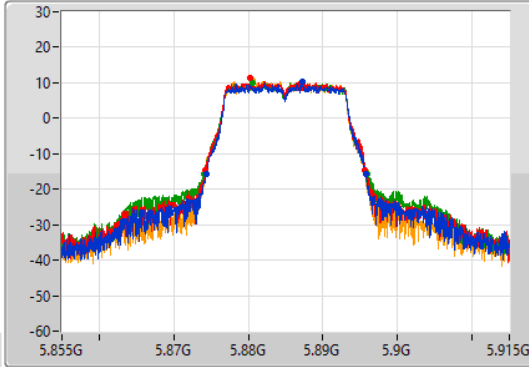
802.11a_Nss1,(6Mbps)_4TX

EBW

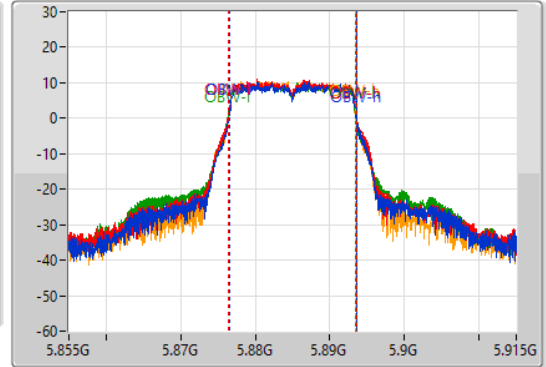
5885MHz

24/08/2021

CF
5.885GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.885GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 21.42M | 5.87432G | 5.89574G | 17.091M | 5.876484G | 5.893576G | Inf | 1 |
| 21.51M | 5.87417G | 5.89568G | 17.181M | 5.876394G | 5.893576G | Inf | 2 |
| 21.96M | 5.87399G | 5.89595G | 17.151M | 5.876334G | 5.893486G | Inf | 3 |
| 21.48M | 5.87423G | 5.89571G | 16.882M | 5.876514G | 5.893396G | Inf | 4 |

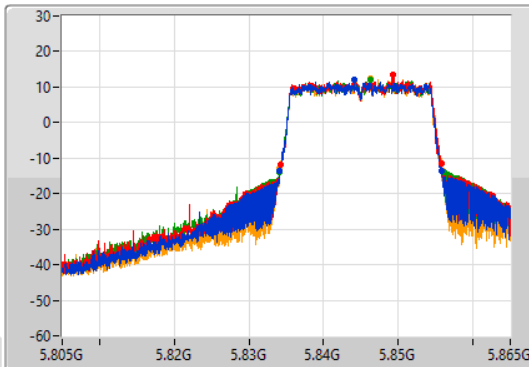
802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

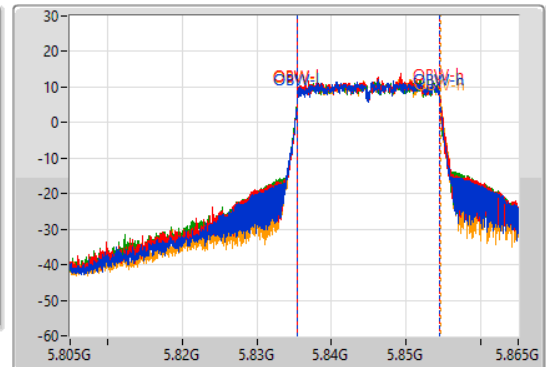
5845MHz

24/08/2021

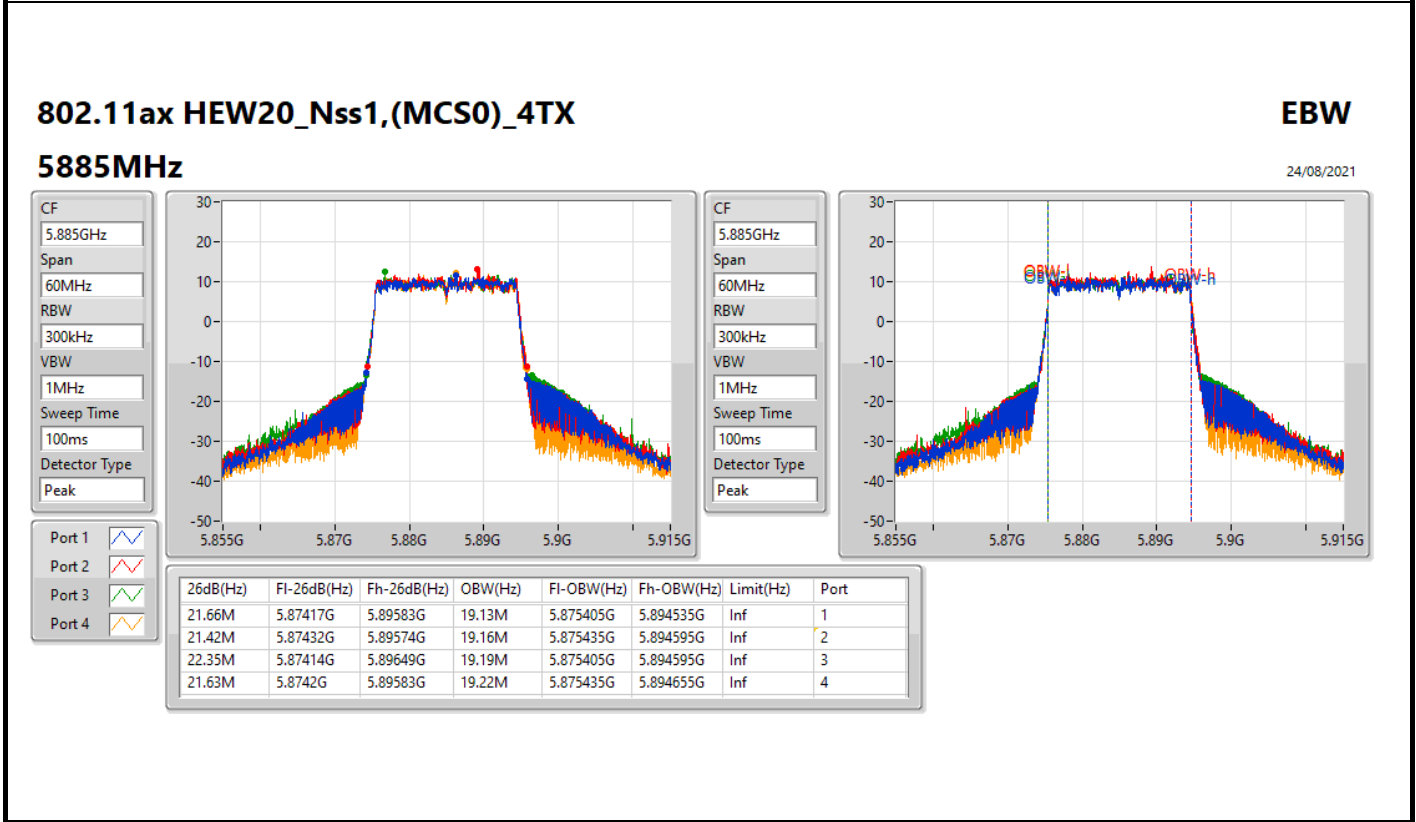
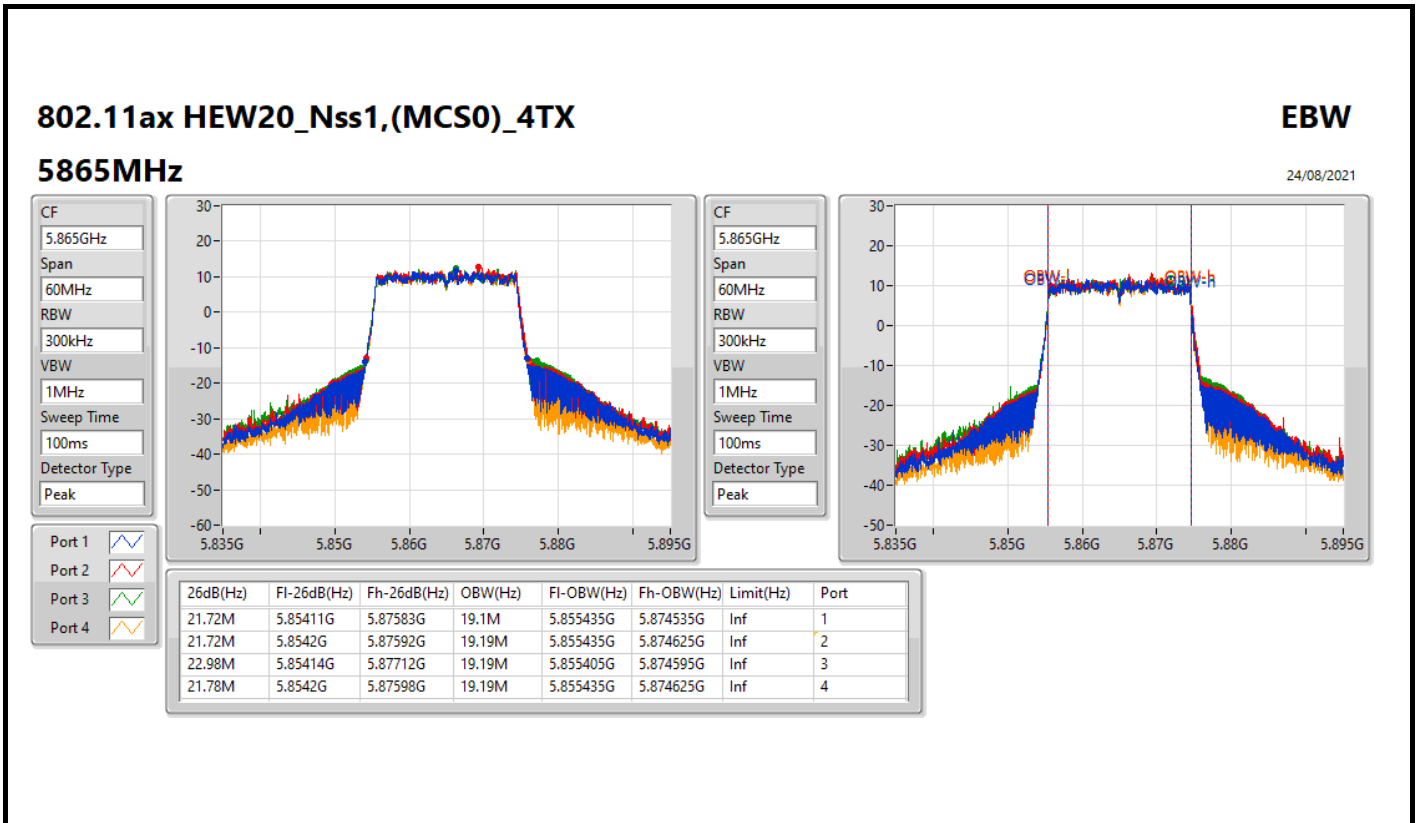
CF
5.835GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak

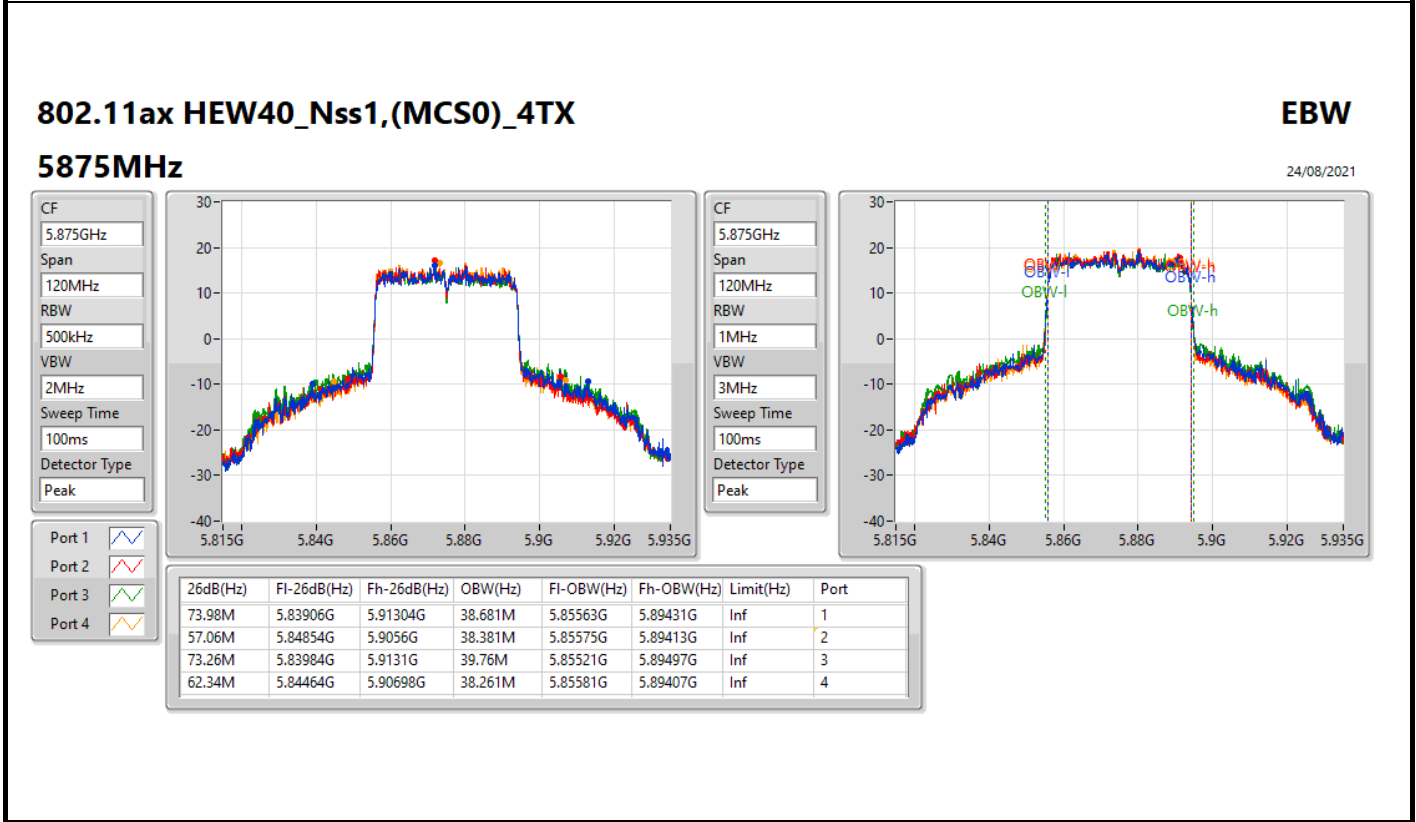
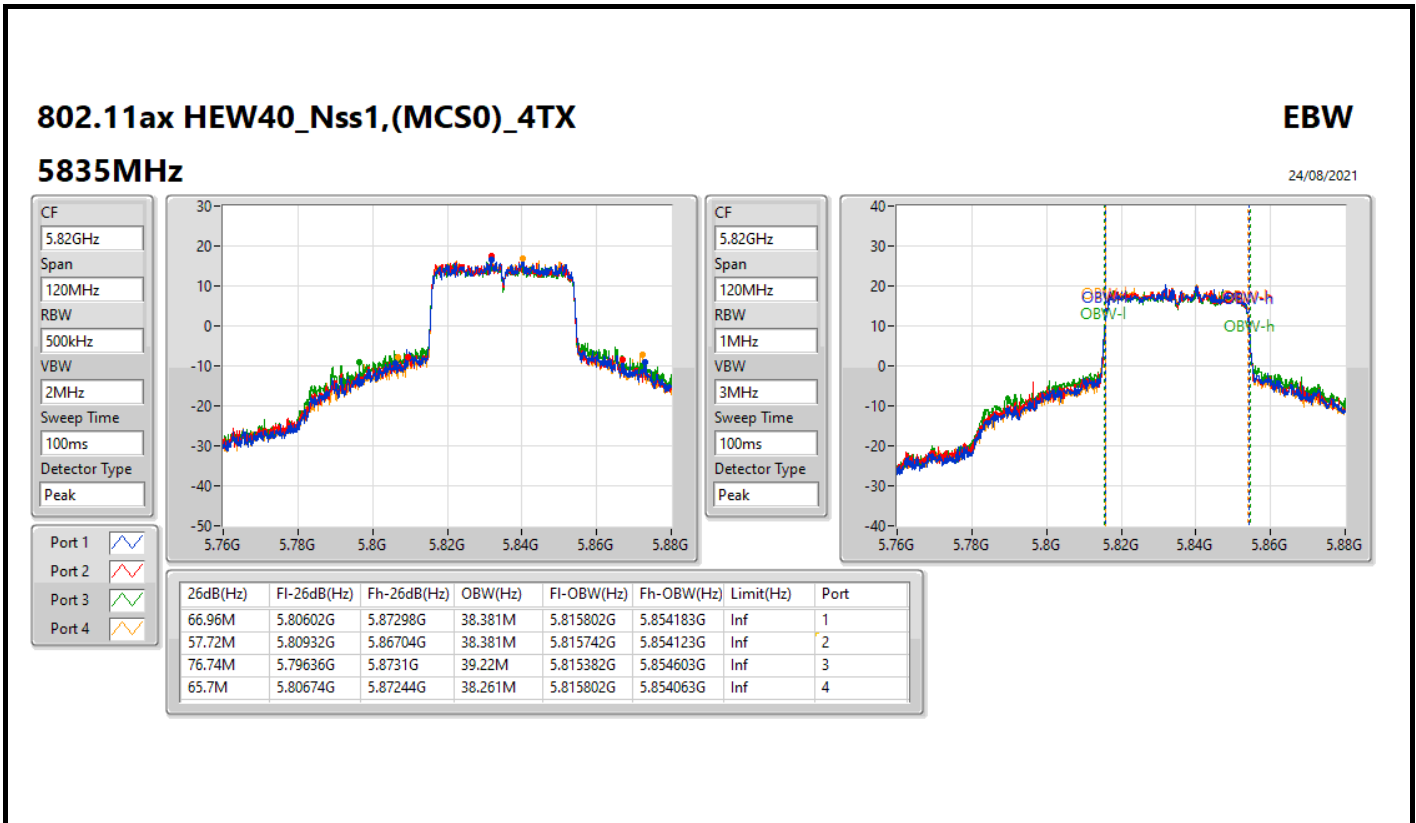


CF
5.835GHz
Span
60MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 21.66M | 5.8341G | 5.85576G | 19.1M | 5.83542G | 5.85452G | Inf | 1 |
| 21.51M | 5.83428G | 5.85579G | 19.13M | 5.83542G | 5.85455G | Inf | 2 |
| 22.08M | 5.8341G | 5.85618G | 19.16M | 5.83539G | 5.85455G | Inf | 3 |
| 21.78M | 5.83416G | 5.85594G | 19.19M | 5.83542G | 5.85461G | Inf | 4 |





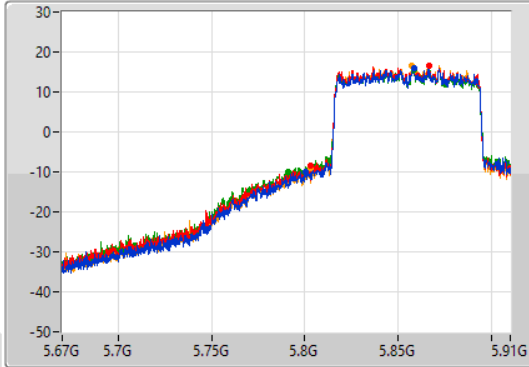
802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

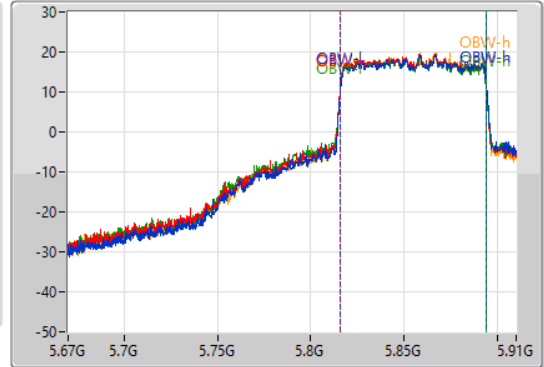
5855MHz

24/08/2021

CF
5.79GHz
Span
240MHz
RBW
1MHz
VBW
3MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.79GHz
Span
240MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|---------|------------|------------|-----------|------|
| 109.68M | 5.80032G | 5.91G | 77.841M | 5.816027G | 5.893868G | Inf | 1 |
| 106.56M | 5.8032G | 5.90976G | 77.841M | 5.815907G | 5.893748G | Inf | 2 |
| 119.16M | 5.79084G | 5.91G | 78.201M | 5.815547G | 5.893748G | Inf | 3 |
| 106.92M | 5.80296G | 5.90988G | 77.721M | 5.816027G | 5.893748G | Inf | 4 |

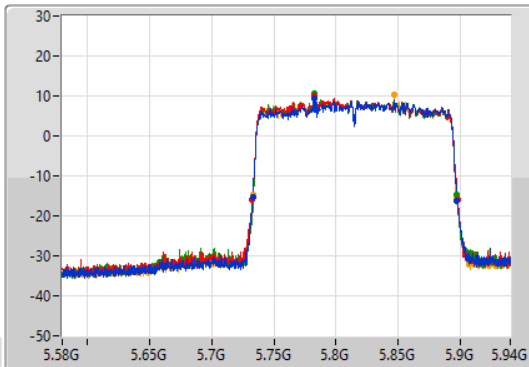
802.11ax HEW160_Nss1,(MCS0)_4TX

EBW

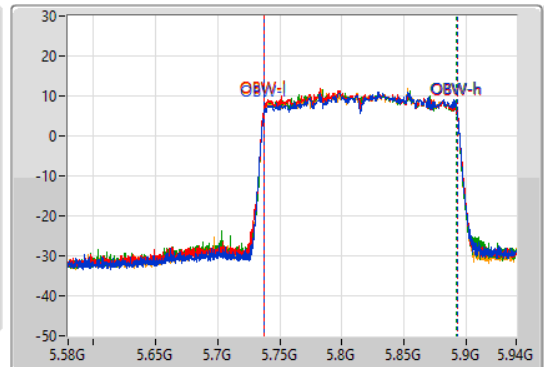
5815MHz

24/08/2021

CF
5.76GHz
Span
360MHz
RBW
2MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



CF
5.76GHz
Span
360MHz
RBW
3MHz
VBW
10MHz
Sweep Time
100ms
Detector Type
Peak



| 26dB(Hz) | Fl-26dB(Hz) | Fh-26dB(Hz) | OBW(Hz) | Fl-OBW(Hz) | Fh-OBW(Hz) | Limit(Hz) | Port |
|----------|-------------|-------------|----------|------------|------------|-----------|------|
| 164.34M | 5.733G | 5.89734G | 155.262M | 5.737331G | 5.892594G | Inf | 1 |
| 165.06M | 5.73264G | 5.8977G | 155.262M | 5.737151G | 5.892414G | Inf | 2 |
| 163.44M | 5.73372G | 5.89716G | 155.082M | 5.737151G | 5.892234G | Inf | 3 |
| 163.08M | 5.73354G | 5.89662G | 155.082M | 5.737331G | 5.892414G | Inf | 4 |



Summary

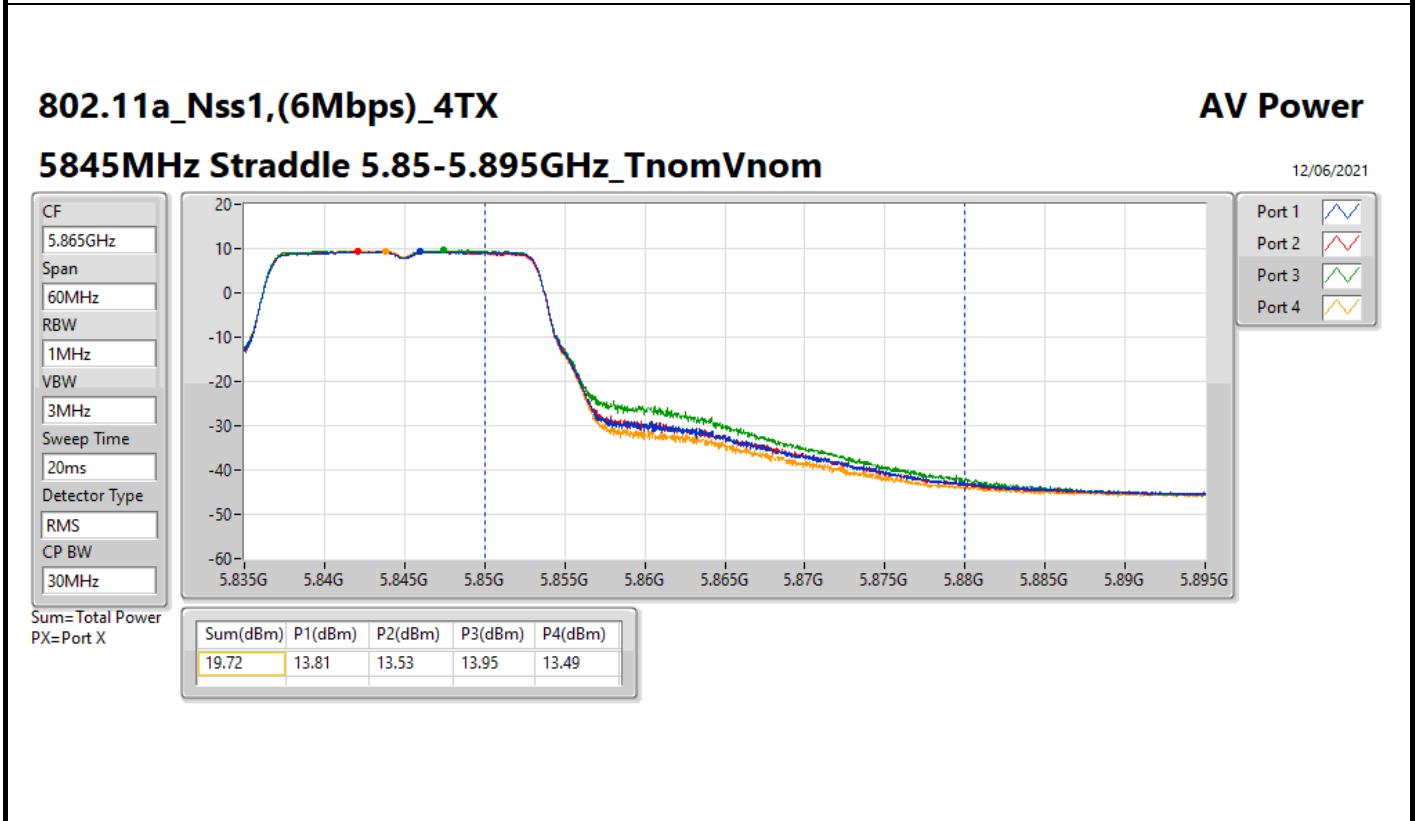
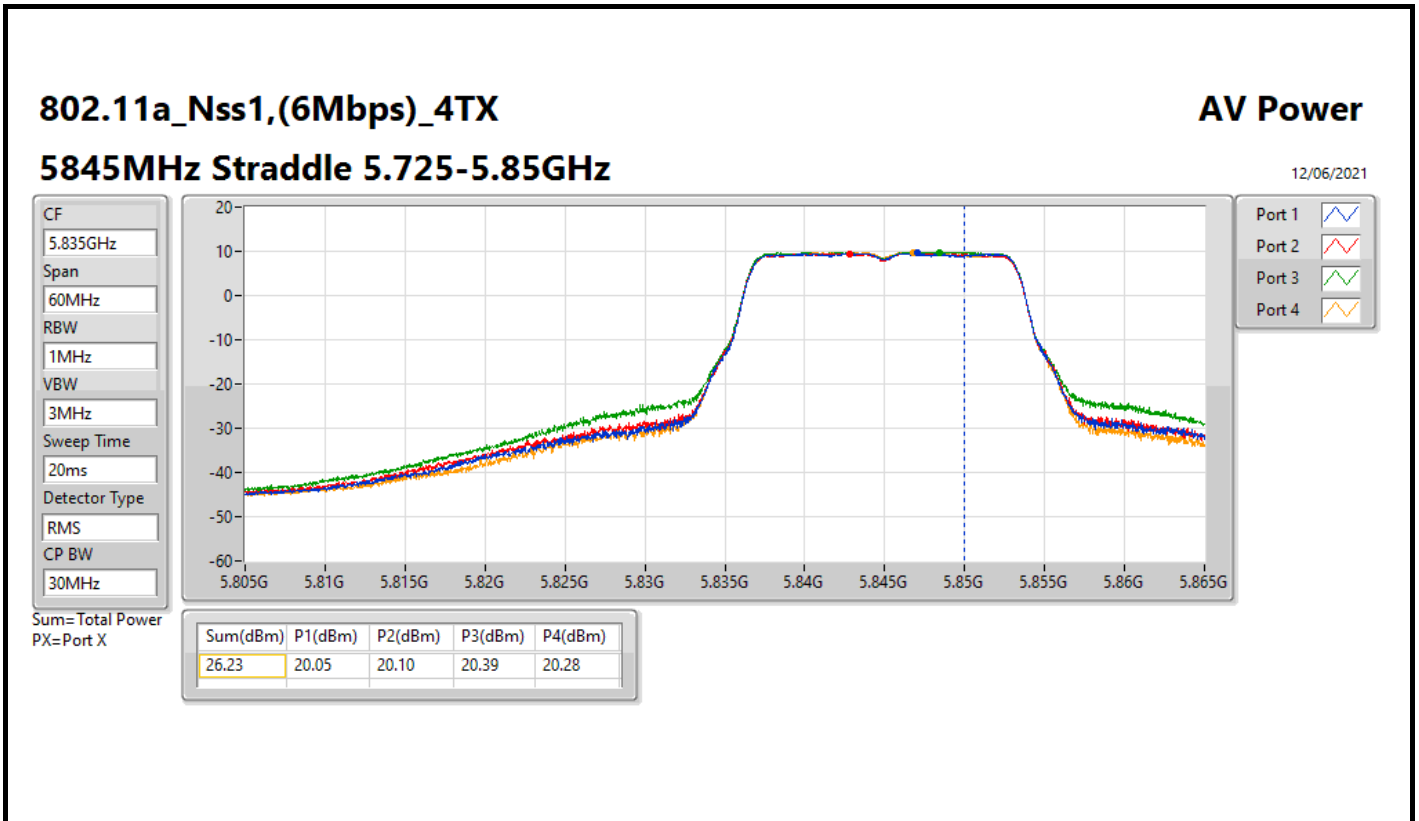
| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|---------------------------------|-------------------|-----------------|------------|----------|
| 5.725-5.85GHz | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_4TX | 26.23 | 0.41976 | 31.15 | 1.30317 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 26.57 | 0.45394 | 31.49 | 1.40929 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 29.92 | 0.98175 | 34.84 | 3.04789 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 26.77 | 0.47534 | 31.69 | 1.47571 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 20.84 | 0.12134 | 25.76 | 0.37670 |
| 5.85-5.895GHz | - | - | - | - |
| 802.11a_Nss1,(6Mbps)_4TX | 26.89 | 0.48865 | 32.53 | 1.79061 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 27.49 | 0.56105 | 33.13 | 2.05589 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 30.32 | 1.07647 | 35.96 | 3.94457 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 27.50 | 0.56234 | 33.14 | 2.06063 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | 15.57 | 0.03606 | 21.21 | 0.13213 |

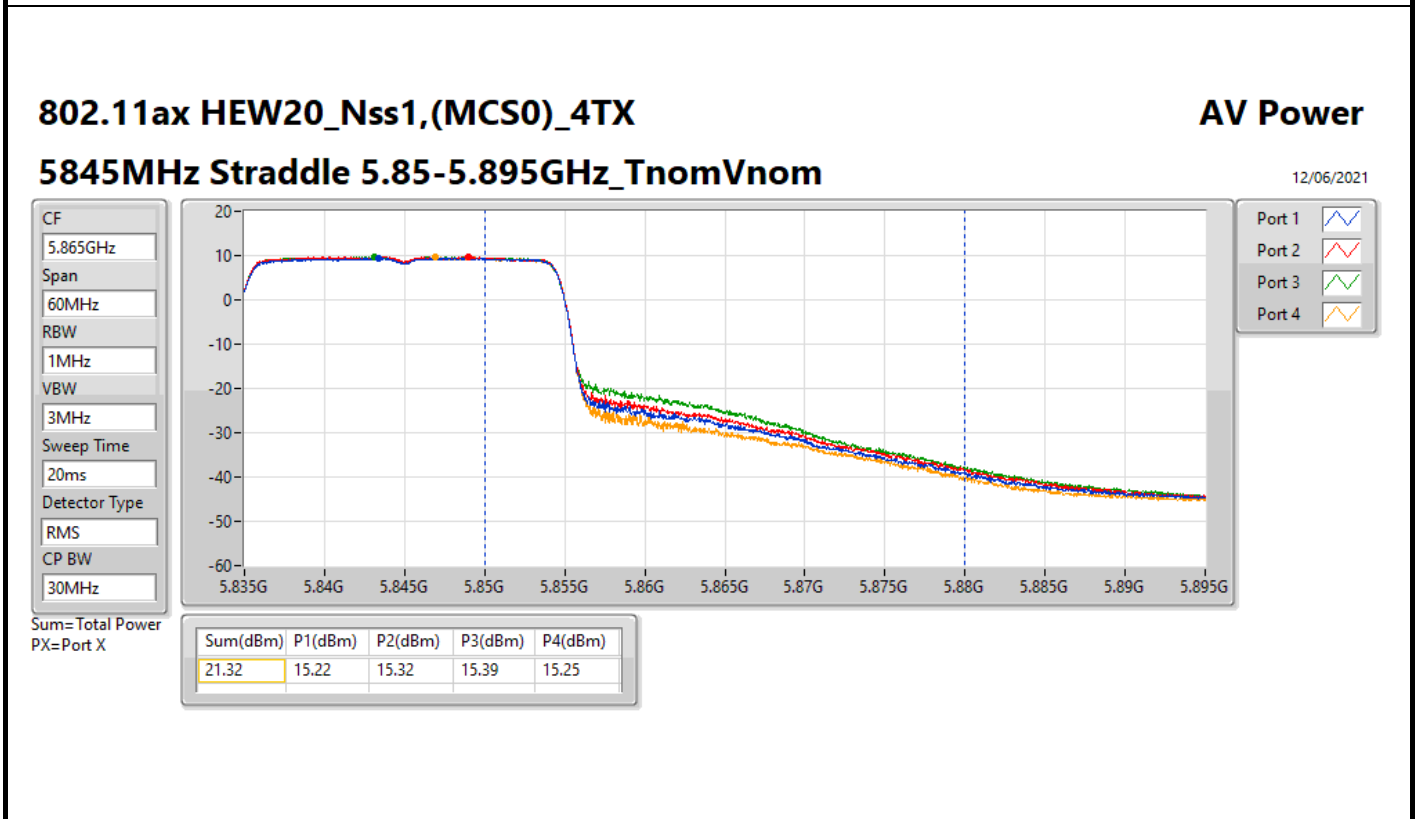
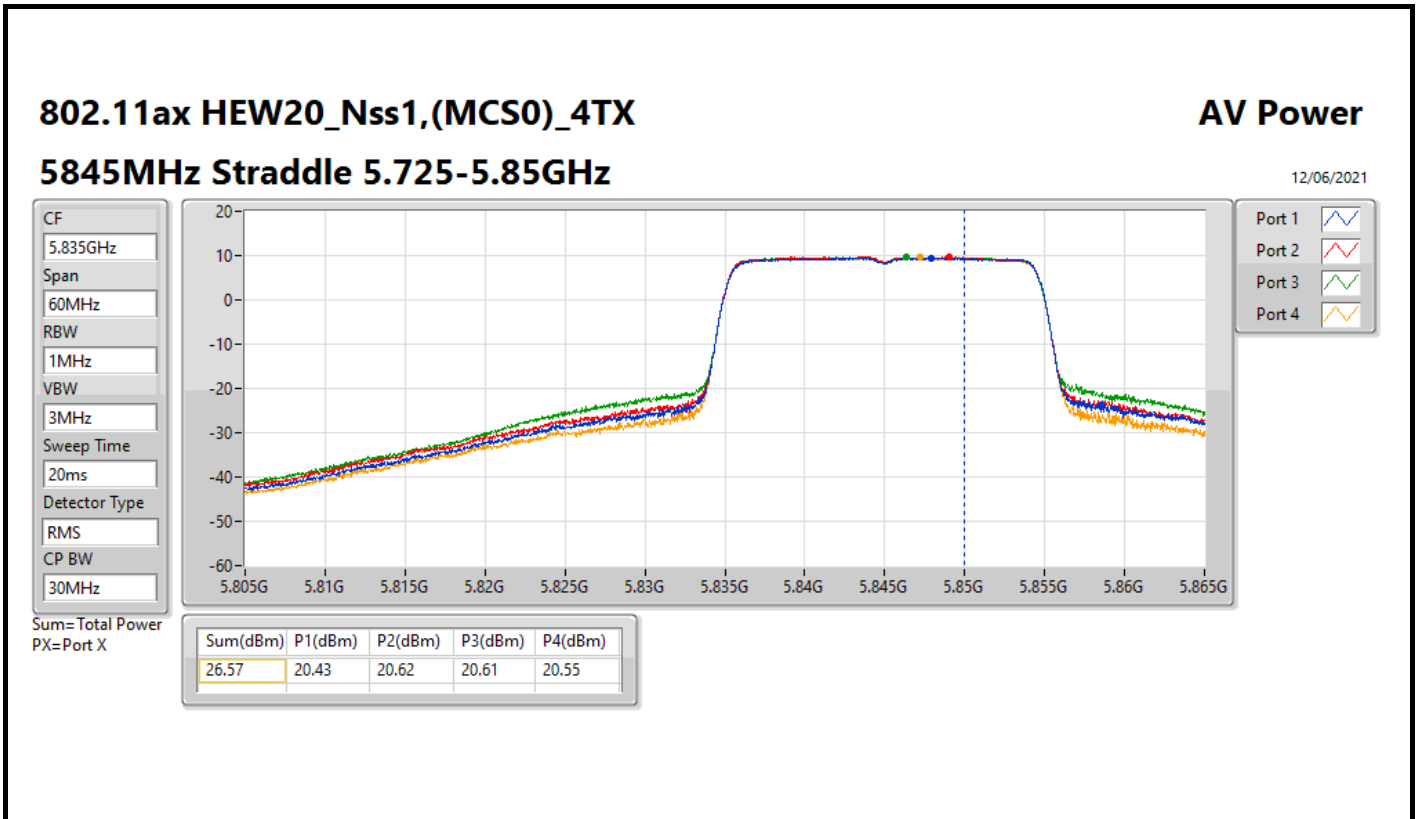


Result

| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|---------------------------------|--------|----------|--------------|--------------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 802.11a_Nss1,(6Mbps)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz Straddle 5.725-5.85GHz | Pass | 4.92 | 20.05 | 20.10 | 20.39 | 20.28 | 26.23 | 30.00 | 31.15 | Inf |
| 5845MHz Straddle 5.85-5.895GHz | Pass | 5.64 | 13.81 | 13.53 | 13.95 | 13.49 | 19.72 | Inf | 25.36 | 36.00 |
| 5865MHz | Pass | 5.64 | 20.71 | 20.64 | 21.01 | 21.11 | 26.89 | Inf | 32.53 | 36.00 |
| 5885MHz | Pass | 5.64 | 20.68 | 20.51 | 21.06 | 20.81 | 26.79 | Inf | 32.43 | 36.00 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz Straddle 5.725-5.85GHz | Pass | 4.92 | 20.43 | 20.62 | 20.61 | 20.55 | 26.57 | 30.00 | 31.49 | Inf |
| 5845MHz Straddle 5.85-5.895GHz | Pass | 5.64 | 15.22 | 15.32 | 15.39 | 15.25 | 21.32 | Inf | 26.96 | 36.00 |
| 5865MHz | Pass | 5.64 | 21.42 | 21.40 | 21.60 | 21.44 | 27.49 | Inf | 33.13 | 36.00 |
| 5885MHz | Pass | 5.64 | 21.21 | 21.34 | 21.54 | 21.30 | 27.37 | Inf | 33.01 | 36.00 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5835MHz Straddle 5.725-5.85GHz | Pass | 4.92 | 23.80 | 23.73 | 23.85 | 24.20 | 29.92 | 30.00 | 34.84 | Inf |
| 5835MHz Straddle 5.85-5.895GHz | Pass | 5.64 | 14.23 | 13.84 | 13.91 | 14.37 | 20.11 | Inf | 25.75 | 36.00 |
| 5875MHz | Pass | 5.64 | 24.28 | 24.03 | 24.19 | 24.66 | 30.32 | Inf | 35.96 | 36.00 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5855MHz Straddle 5.725-5.85GHz | Pass | 4.92 | 20.36 | 20.85 | 20.52 | 21.20 | 26.77 | 30.00 | 31.69 | Inf |
| 5855MHz Straddle 5.85-5.895GHz | Pass | 5.64 | 21.63 | 21.24 | 21.10 | 21.89 | 27.50 | Inf | 33.14 | 36.00 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5815MHz Straddle 5.725-5.85GHz | Pass | 4.92 | 14.59 | 14.87 | 15.14 | 14.67 | 20.84 | 30.00 | 25.76 | Inf |
| 5815MHz Straddle 5.85-5.895GHz | Pass | 5.64 | 10.09 | 9.08 | 9.58 | 9.37 | 15.57 | Inf | 21.21 | 36.00 |

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





802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5835MHz Straddle 5.725-5.85GHz

12/06/2021

CF
5.82GHz

Span
120MHz

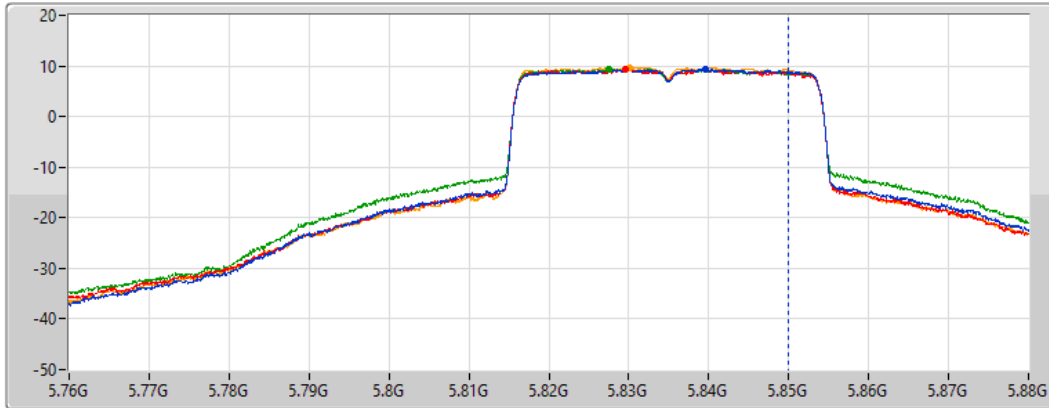
RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS


CP BW
60MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|----------|---------|---------|---------|---------|
| 29.92 | 23.80 | 23.73 | 23.85 | 24.20 |

802.11ax HEW40_Nss1,(MCS0)_4TX

AV Power

5835MHz Straddle 5.85-5.895GHz_TnomVnom

12/06/2021

CF
5.88GHz

Span
120MHz

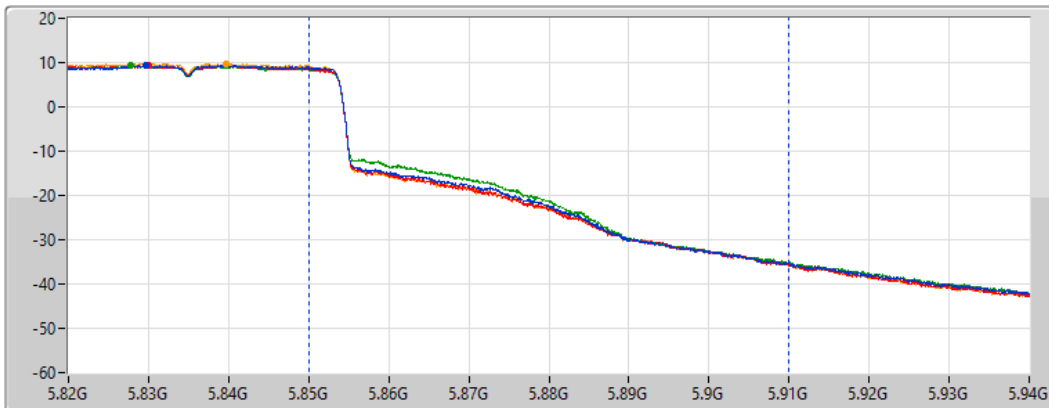
RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS


CP BW
60MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|----------|---------|---------|---------|---------|
| 20.11 | 14.23 | 13.84 | 13.91 | 14.37 |

802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5855MHz Straddle 5.725-5.85GHz

12/06/2021

CF
5.79GHz

Span
240MHz

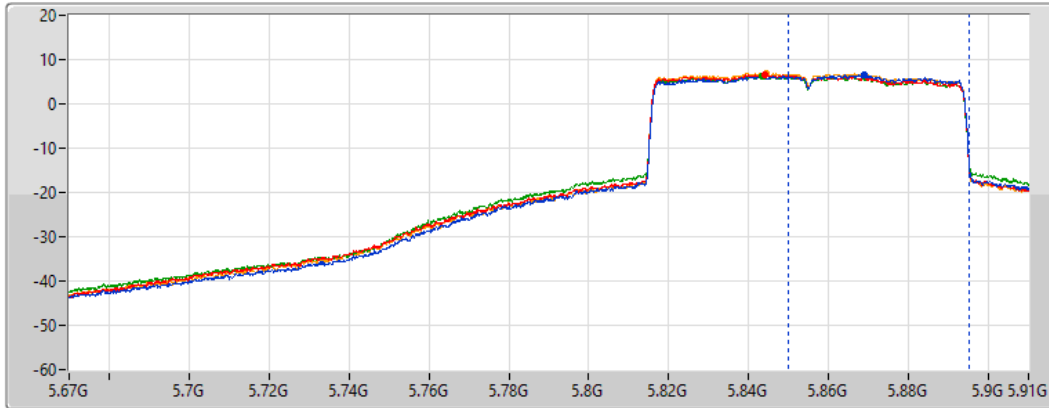
RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS


CP BW
120MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|----------|---------|---------|---------|---------|
| 26.77 | 20.36 | 20.85 | 20.52 | 21.20 |

802.11ax HEW80_Nss1,(MCS0)_4TX

AV Power

5855MHz Straddle 5.85-5.895GHz_TnomVnom

12/06/2021

CF
5.91GHz

Span
240MHz

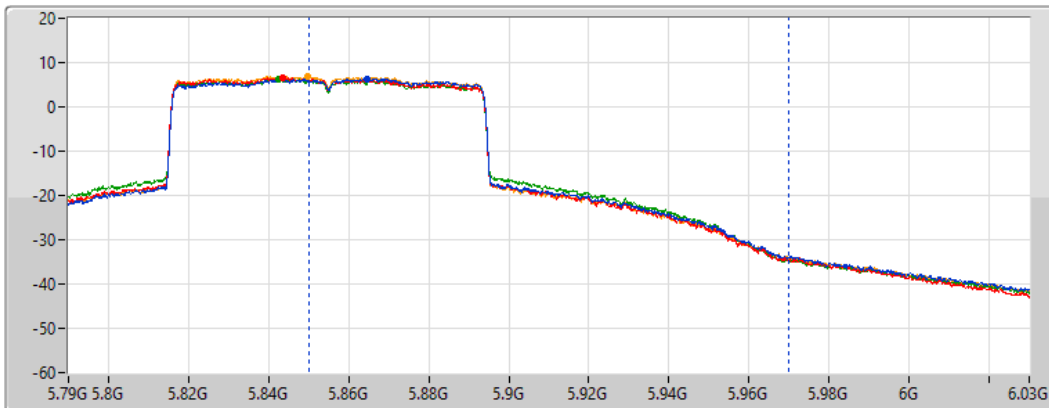
RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS


CP BW
120MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|----------|---------|---------|---------|---------|
| 27.50 | 21.63 | 21.24 | 21.10 | 21.89 |

802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5815MHz Straddle 5.725-5.85GHz

12/06/2021

CF
5.76GHz

Span
360MHz

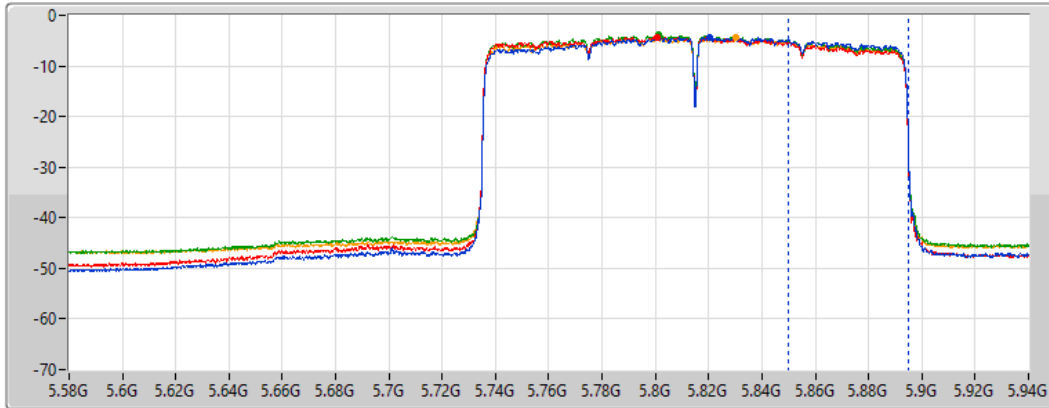
RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS


CP BW
180MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|----------|---------|---------|---------|---------|
| 20.84 | 14.59 | 14.87 | 15.14 | 14.67 |

802.11ax HEW160_Nss1,(MCS0)_4TX

AV Power

5815MHz Straddle 5.85-5.895GHz_TnomVnom

12/06/2021

CF
5.94GHz

Span
360MHz

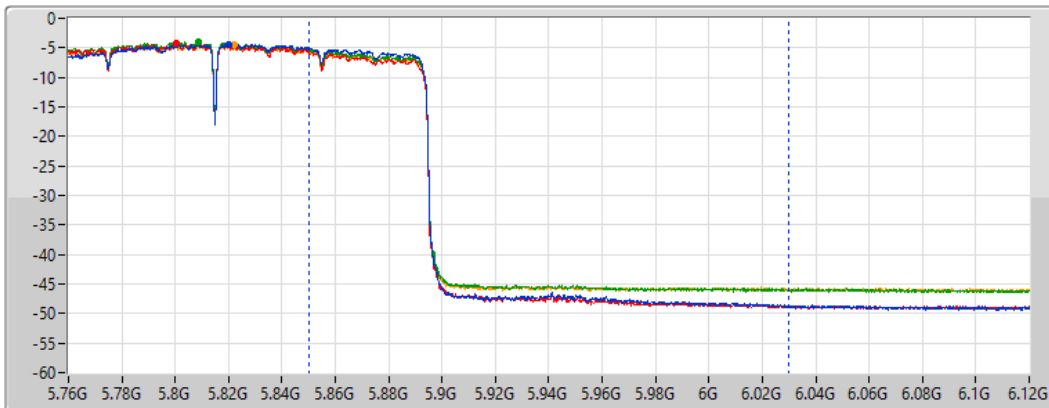
RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS


CP BW
180MHz



Port 1 

Port 2 

Port 3 

Port 4 

Sum= Total Power
PX=Port X

| Sum(dBm) | P1(dBm) | P2(dBm) | P3(dBm) | P4(dBm) |
|----------|---------|---------|---------|---------|
| 15.57 | 10.09 | 9.08 | 9.58 | 9.37 |



Summary

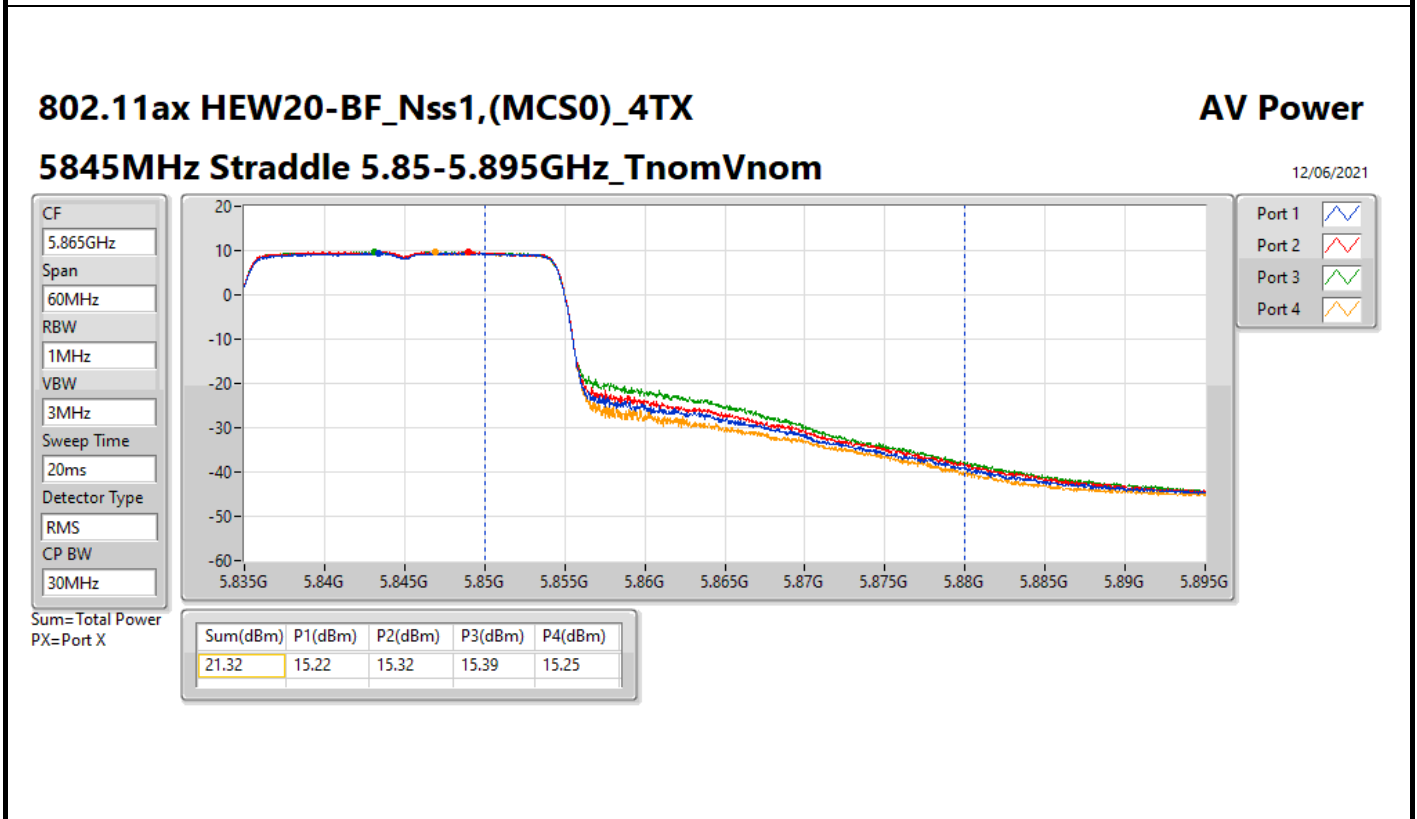
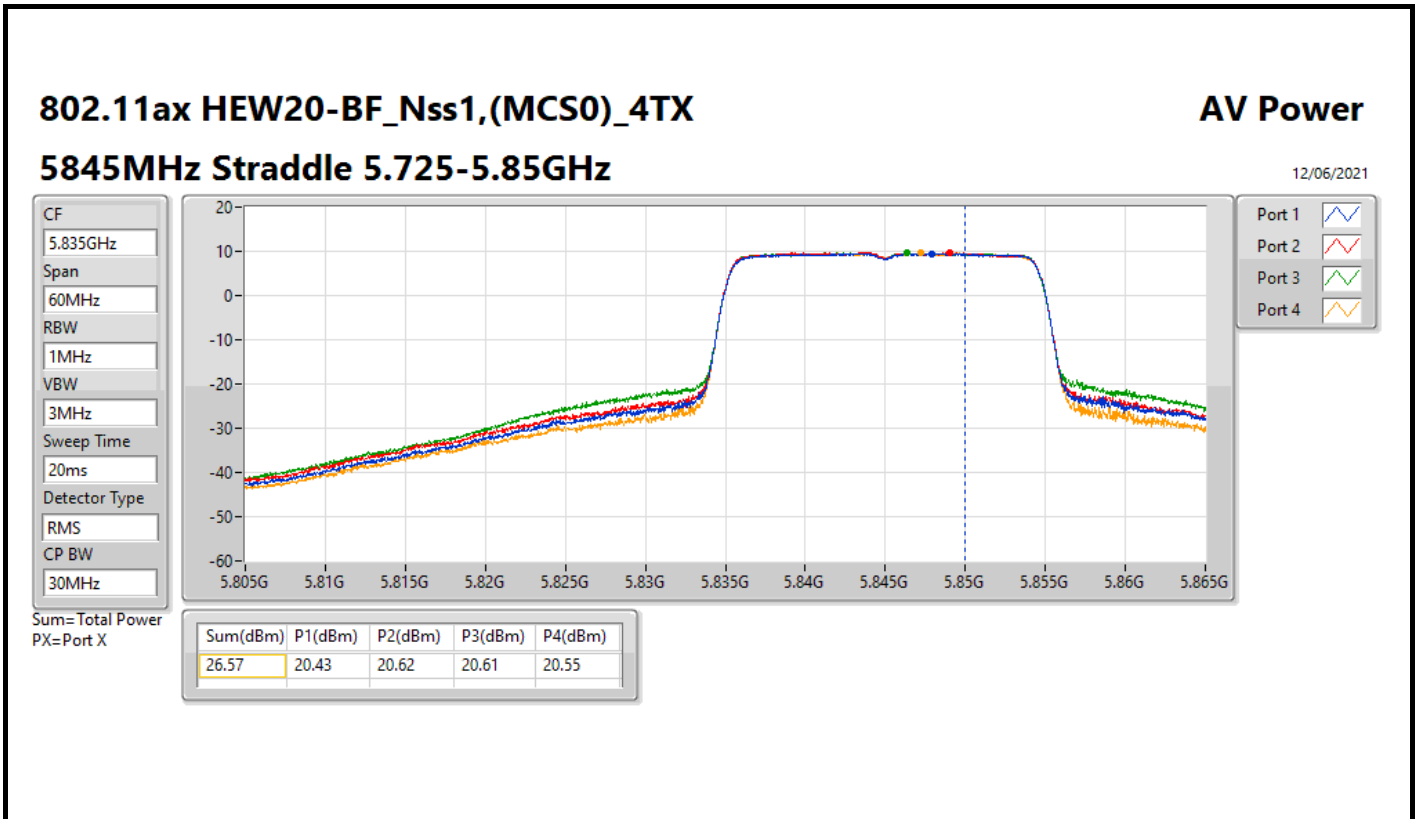
| Mode | Total Power (dBm) | Total Power (W) | EIRP (dBm) | EIRP (W) |
|------------------------------------|-------------------|-----------------|------------|----------|
| 5.725-5.85GHz | - | - | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | 26.57 | 0.45394 | 32.02 | 1.59221 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | 29.92 | 0.98175 | 35.37 | 3.44350 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | 26.77 | 0.47534 | 32.22 | 1.66725 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | 20.84 | 0.12134 | 26.29 | 0.42560 |
| 5.85-5.895GHz | - | - | - | - |
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | 27.49 | 0.56105 | 33.38 | 2.17771 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | 29.94 | 0.98628 | 35.83 | 3.82825 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | 27.50 | 0.56234 | 33.39 | 2.18273 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | 15.57 | 0.03606 | 21.46 | 0.13996 |

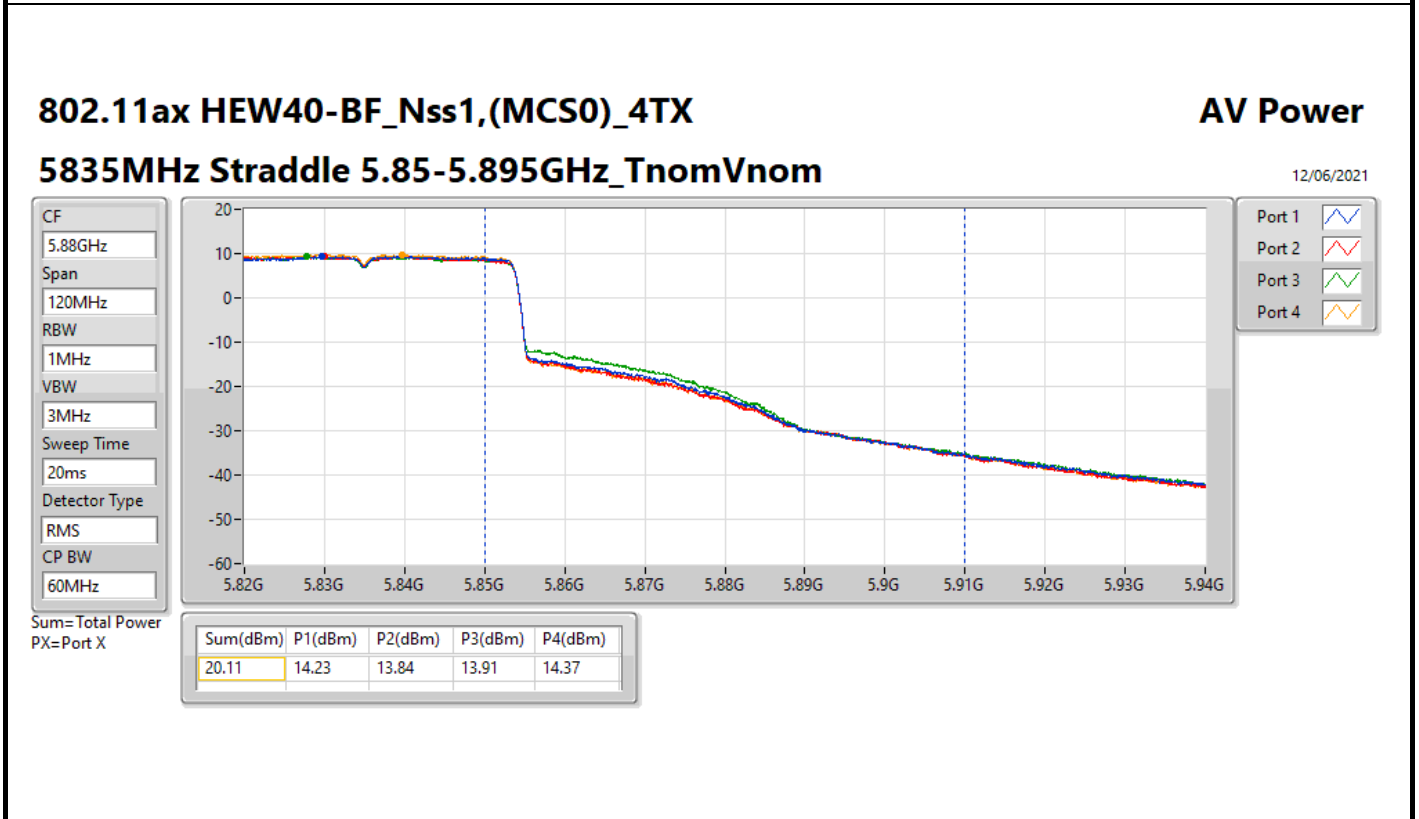
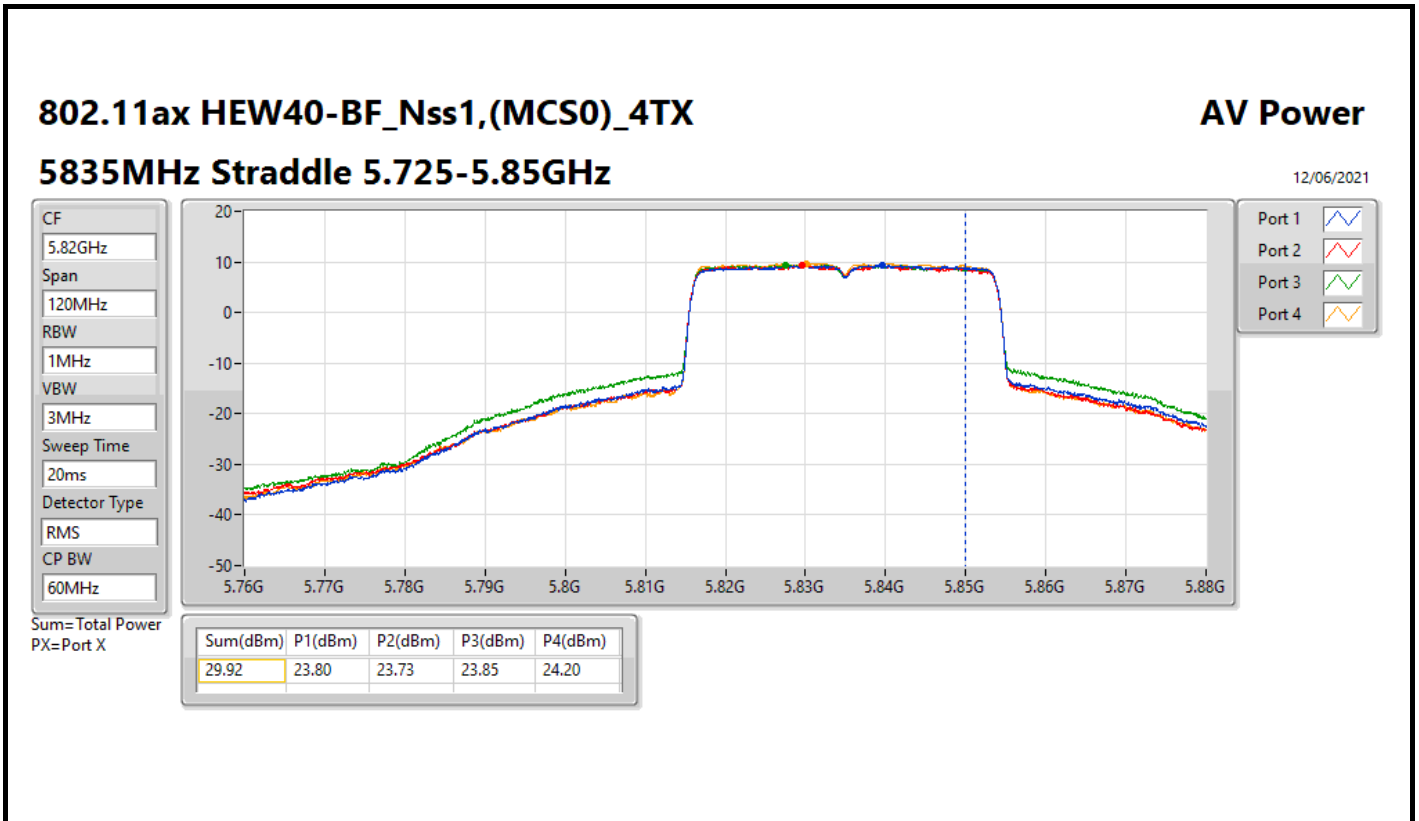


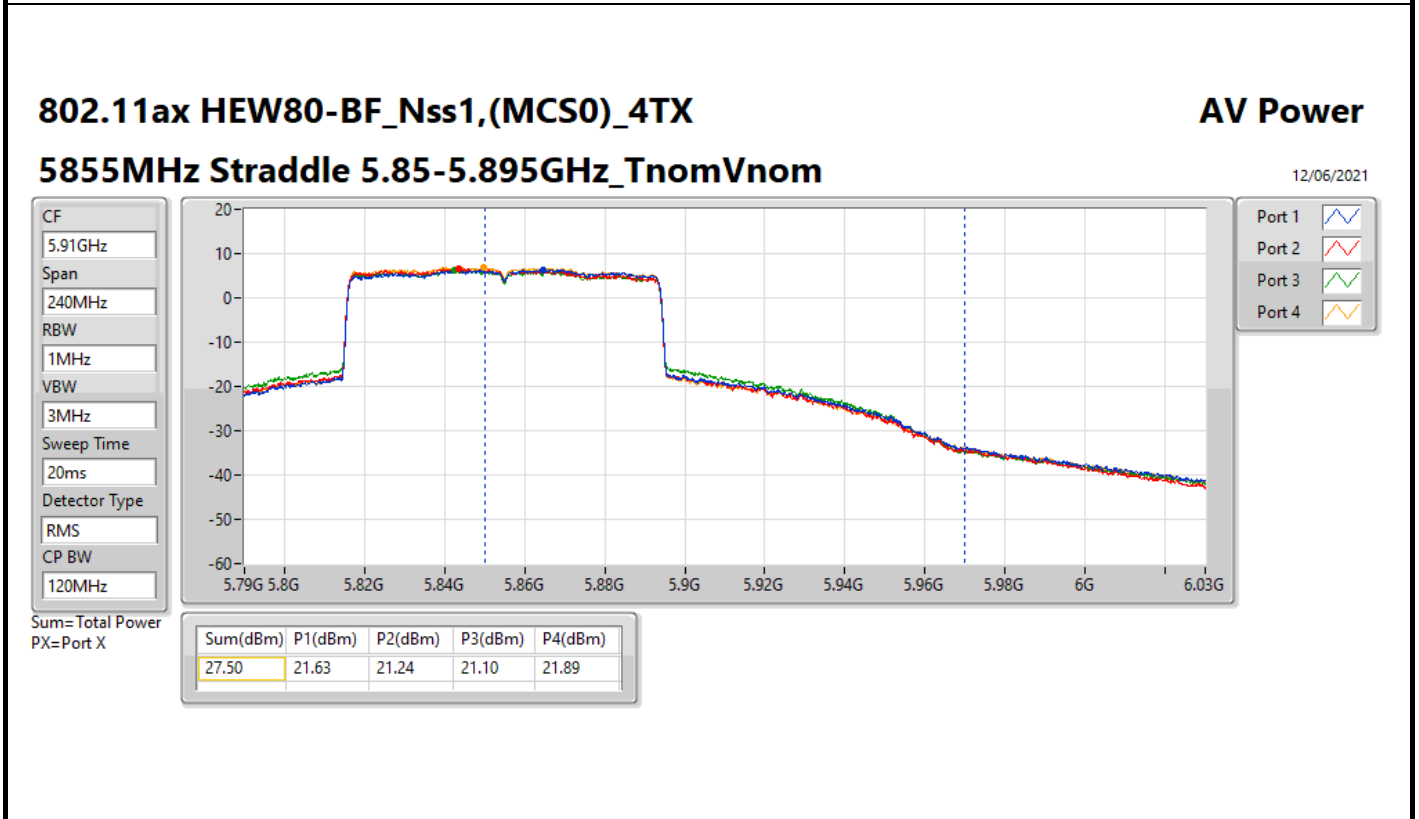
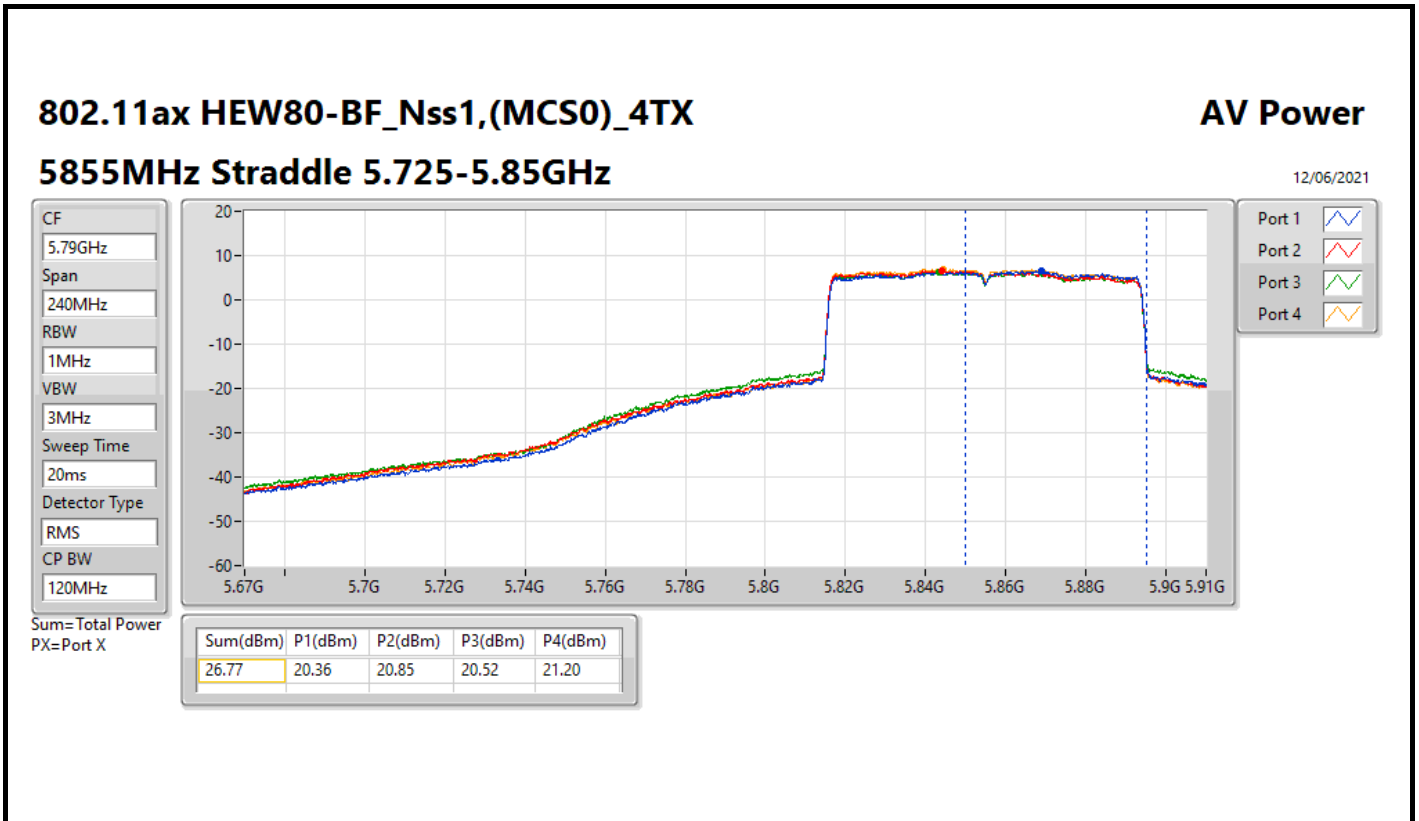
Result

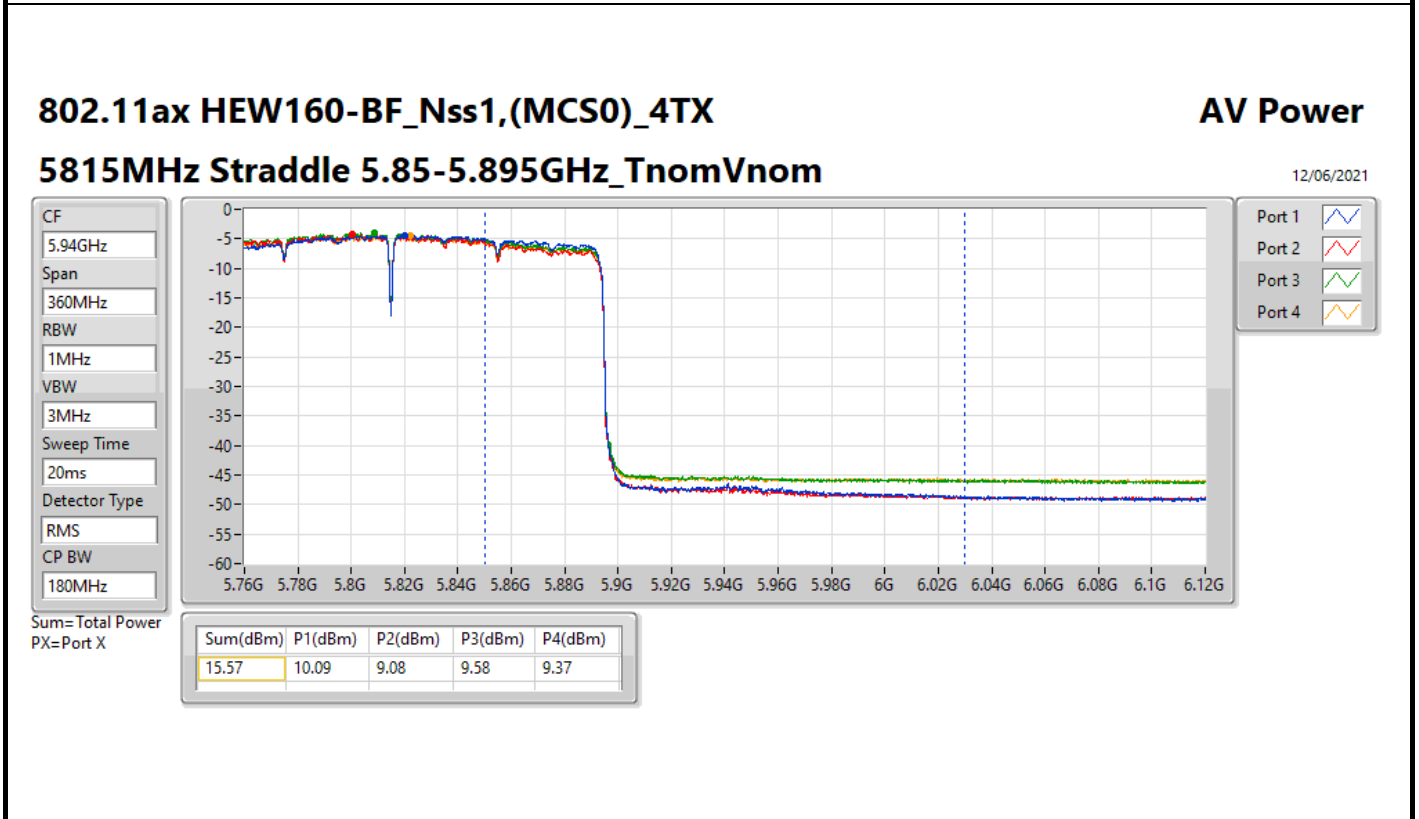
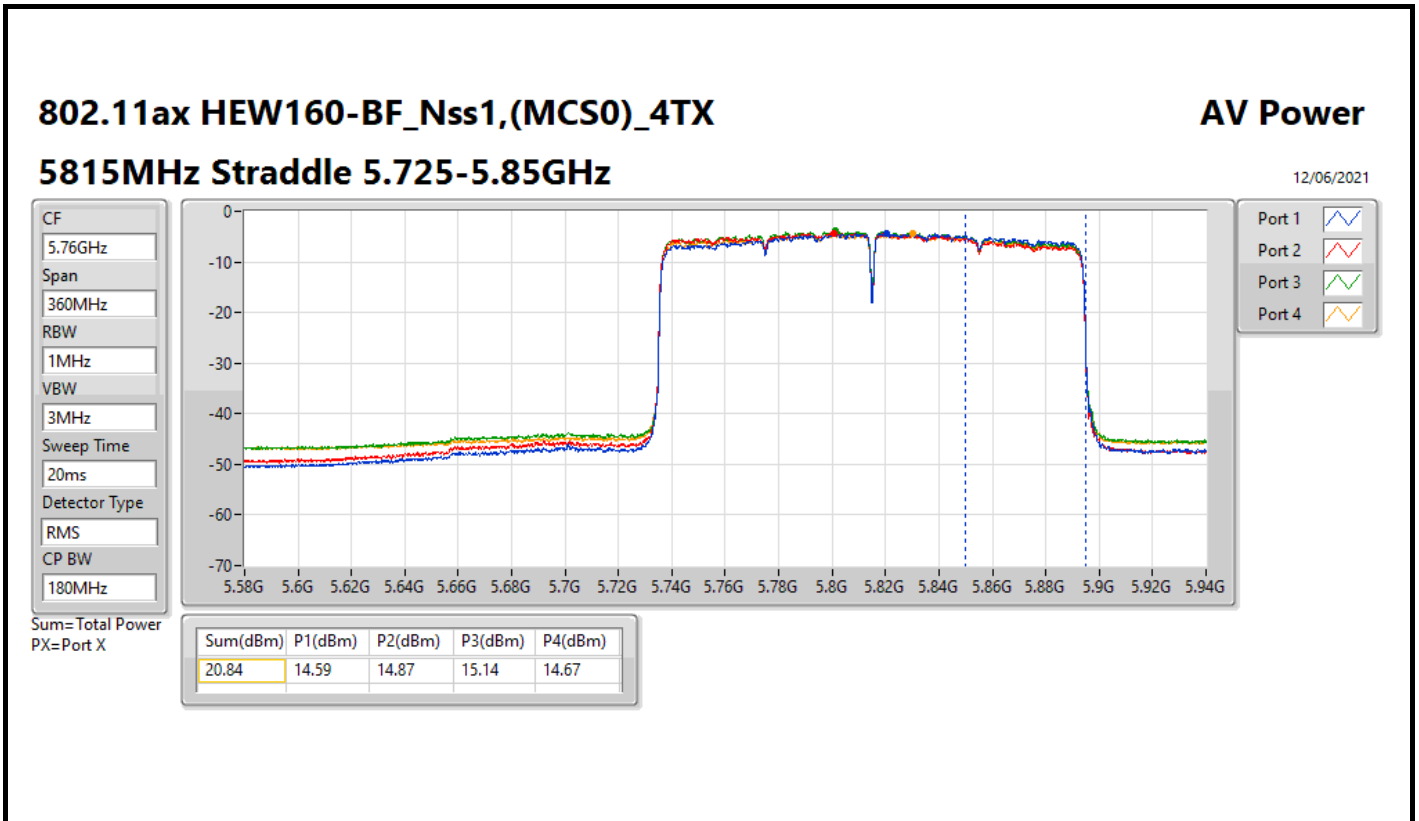
| Mode | Result | DG (dBi) | Port 1 (dBm) | Port 2 (dBm) | Port 3 (dBm) | Port 4 (dBm) | Total Power (dBm) | Power Limit (dBm) | EIRP (dBm) | EIRP Limit (dBm) |
|------------------------------------|--------|----------|--------------|--------------|--------------|--------------|-------------------|-------------------|------------|------------------|
| 802.11ax HEW20-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 20.43 | 20.62 | 20.61 | 20.55 | 26.57 | 30.00 | 32.02 | Inf |
| 5845MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 15.22 | 15.32 | 15.39 | 15.25 | 21.32 | Inf | 27.21 | 36.00 |
| 5865MHz | Pass | 5.89 | 21.42 | 21.4 | 21.6 | 21.44 | 27.49 | Inf | 33.38 | 36.00 |
| 5885MHz | Pass | 5.89 | 21.21 | 21.34 | 21.54 | 21.3 | 27.37 | Inf | 33.26 | 36.00 |
| 802.11ax HEW40-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5835MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 23.8 | 23.73 | 23.85 | 24.2 | 29.92 | 30.00 | 35.37 | Inf |
| 5835MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 14.23 | 13.84 | 13.91 | 14.37 | 20.11 | Inf | 26.00 | 36.00 |
| 5875MHz | Pass | 5.89 | 23.89 | 23.69 | 23.89 | 24.21 | 29.94 | Inf | 35.83 | 36.00 |
| 802.11ax HEW80-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5855MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 20.36 | 20.85 | 20.52 | 21.2 | 26.77 | 30.00 | 32.22 | Inf |
| 5855MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 21.63 | 21.24 | 21.1 | 21.89 | 27.50 | Inf | 33.39 | 36.00 |
| 802.11ax HEW160-BF_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5815MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 14.59 | 14.87 | 15.14 | 14.67 | 20.84 | 30.00 | 26.29 | Inf |
| 5815MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 10.09 | 9.08 | 9.58 | 9.37 | 15.57 | Inf | 21.46 | 36.00 |

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









Summary

| Mode | PD (dBm/RBW) | EIRP PD (dBm/RBW) |
|---------------------------------|-----------------|----------------------|
| 5.725-5.895GHz | - | - |
| 802.11a_Nss1,(6Mbps)_4TX | 13.91 | 19.36 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 13.88 | 19.33 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 13.26 | 18.71 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 10.86 | 16.31 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | -0.65 | 4.80 |
| 5.85-5.895GHz | - | - |
| 802.11a_Nss1,(6Mbps)_4TX | 13.93 | 19.82 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | 14.03 | 19.92 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | 13.87 | 19.76 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | 10.75 | 16.64 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | -0.78 | 5.11 |

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

Result

| Mode | Result | DG (dBi) | Port 1 (dBm/RBW) | Port 2 (dBm/RBW) | Port 3 (dBm/RBW) | Port 4 (dBm/RBW) | PD (dBm/RBW) | PD Limit (dBm/RBW) | EIRP PD (dBm/RBW) | EIRP PD Limit (dBm/RBW) |
|---------------------------------|--------|-------------|---------------------|---------------------|---------------------|---------------------|-----------------|-----------------------|----------------------|-------------------------------|
| 802.11a_Nss1,(6Mbps)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 8.03 | 7.85 | 8.21 | 7.62 | 13.91 | 30.00 | 19.36 | Inf |
| 5845MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 7.75 | 7.56 | 8.03 | 7.31 | 13.59 | Inf | 19.48 | 20.00 |
| 5865MHz | Pass | 5.89 | 7.96 | 7.70 | 8.07 | 8.17 | 13.89 | Inf | 19.78 | 20.00 |
| 5885MHz | Pass | 5.89 | 7.91 | 7.77 | 8.22 | 8.17 | 13.93 | Inf | 19.82 | 20.00 |
| 802.11ax HEW20_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5845MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 7.83 | 7.87 | 7.88 | 8.00 | 13.88 | 30.00 | 19.33 | Inf |
| 5845MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 7.72 | 7.99 | 7.92 | 7.90 | 13.88 | Inf | 19.77 | 20.00 |
| 5865MHz | Pass | 5.89 | 8.18 | 8.09 | 8.16 | 8.12 | 14.03 | Inf | 19.92 | 20.00 |
| 5885MHz | Pass | 5.89 | 7.90 | 8.00 | 8.08 | 7.99 | 13.88 | Inf | 19.77 | 20.00 |
| 802.11ax HEW40_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5835MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 7.31 | 7.10 | 7.01 | 7.64 | 13.26 | 30.00 | 18.71 | Inf |
| 5835MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 7.30 | 7.19 | 6.90 | 7.56 | 13.22 | Inf | 19.11 | 20.00 |
| 5875MHz | Pass | 5.89 | 8.02 | 7.52 | 7.49 | 8.32 | 13.87 | Inf | 19.76 | 20.00 |
| 802.11ax HEW80_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5855MHz Straddle 5.725-5.85GHz | Pass | 5.45 | 4.91 | 4.74 | 4.68 | 5.27 | 10.86 | 30.00 | 16.31 | Inf |
| 5855MHz Straddle 5.85-5.895GHz | Pass | 5.89 | 4.78 | 4.72 | 4.43 | 5.30 | 10.75 | Inf | 16.64 | 20.00 |
| 802.11ax HEW160_Nss1,(MCS0)_4TX | - | - | - | - | - | - | - | - | - | - |
| 5815MHz Straddle 5.725-5.85GHz | Pass | 5.45 | -6.33 | -6.96 | -6.38 | -7.02 | -0.65 | 30.00 | 4.80 | Inf |
| 5815MHz Straddle 5.85-5.895GHz | Pass | 5.89 | -6.48 | -6.85 | -6.71 | -6.87 | -0.78 | Inf | 5.11 | 20.00 |

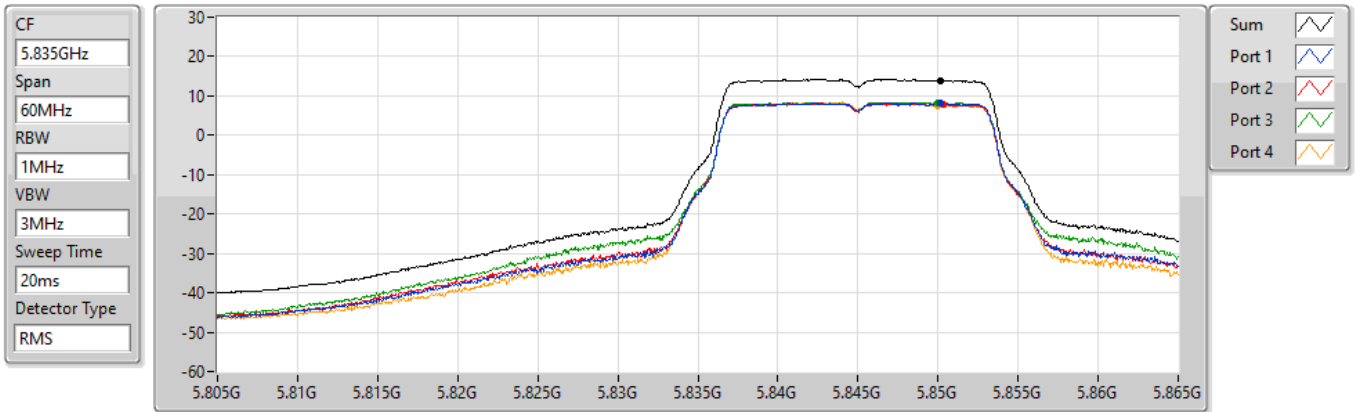
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5845MHz Straddle 5.725-5.85GHz

12/06/2021



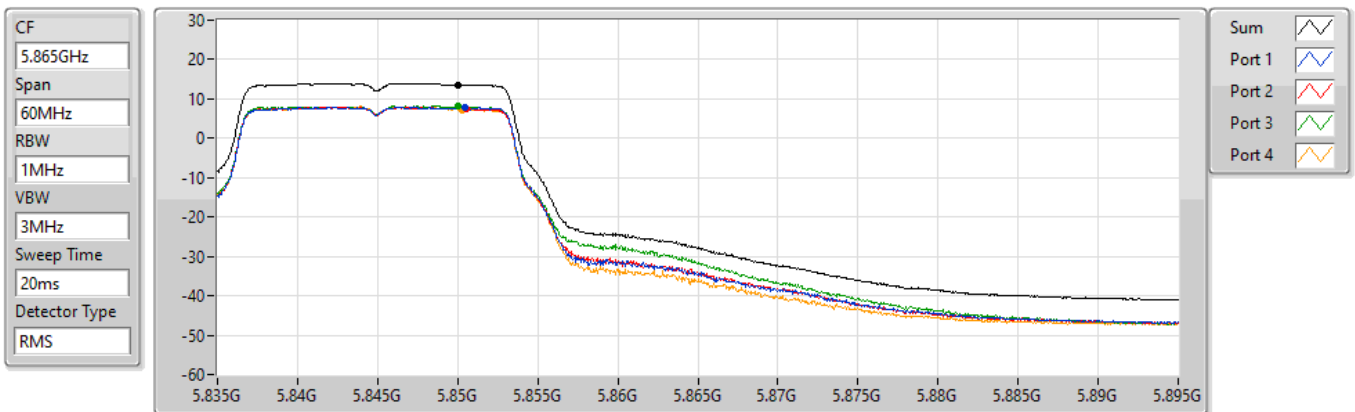
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.91 | 13.91 | 8.03 | 7.85 | 8.21 | 7.62 |

802.11a_Nss1,(6Mbps)_4TX

PSD

5845MHz Straddle 5.85-5.895GHz

12/06/2021



| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.59 | 13.59 | 7.75 | 7.56 | 8.03 | 7.31 |

802.11a_Nss1,(6Mbps)_4TX

PSD

5865MHz

12/06/2021

CF
5.865GHz

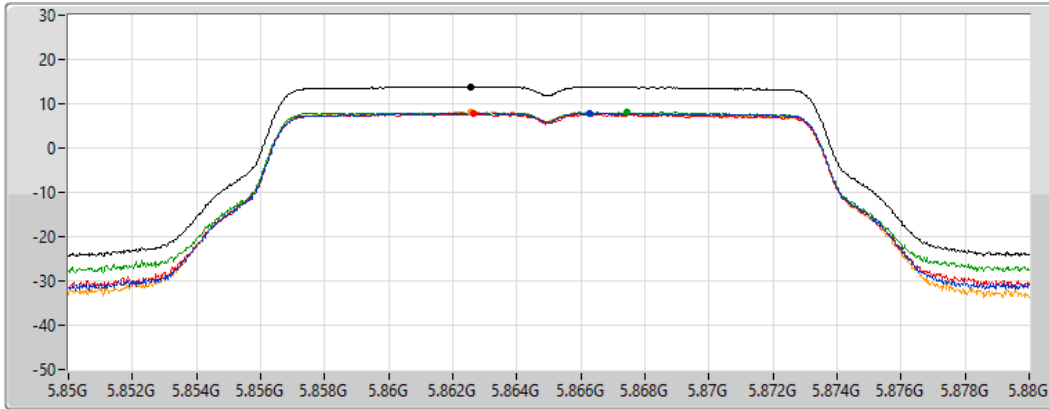
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.89 | 13.89 | 7.96 | 7.70 | 8.07 | 8.17 |

802.11a_Nss1,(6Mbps)_4TX

PSD

5885MHz

12/06/2021

CF
5.885GHz

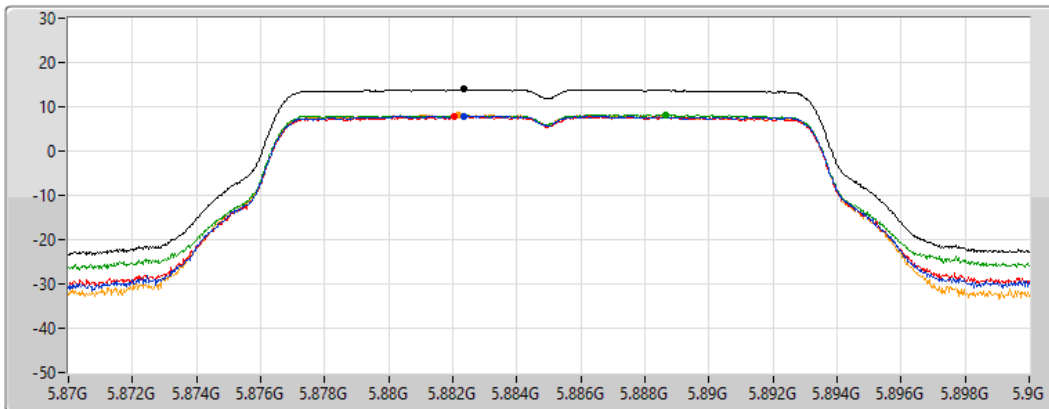
Span
30MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

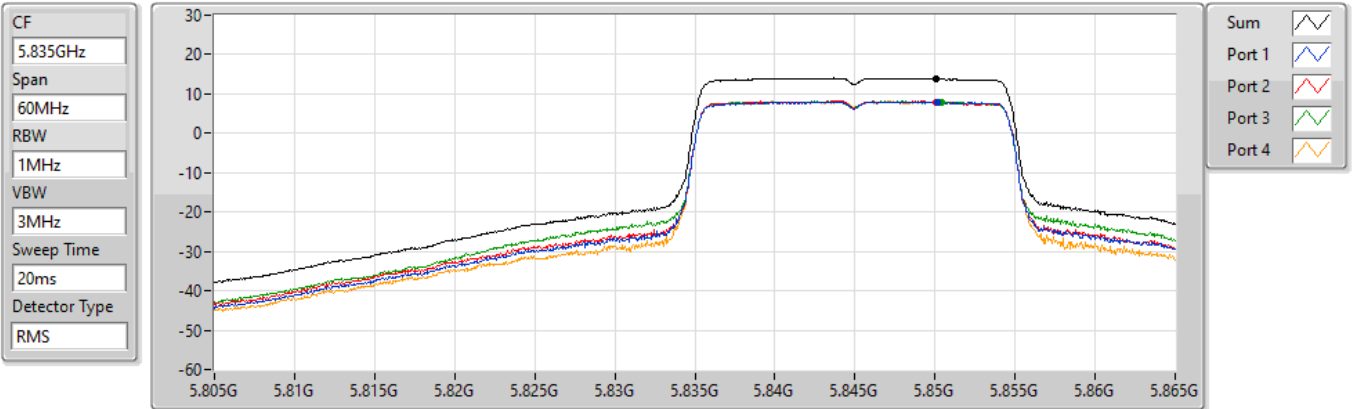
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.93 | 13.93 | 7.91 | 7.77 | 8.22 | 8.17 |

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5845MHz Straddle 5.725-5.85GHz

12/06/2021



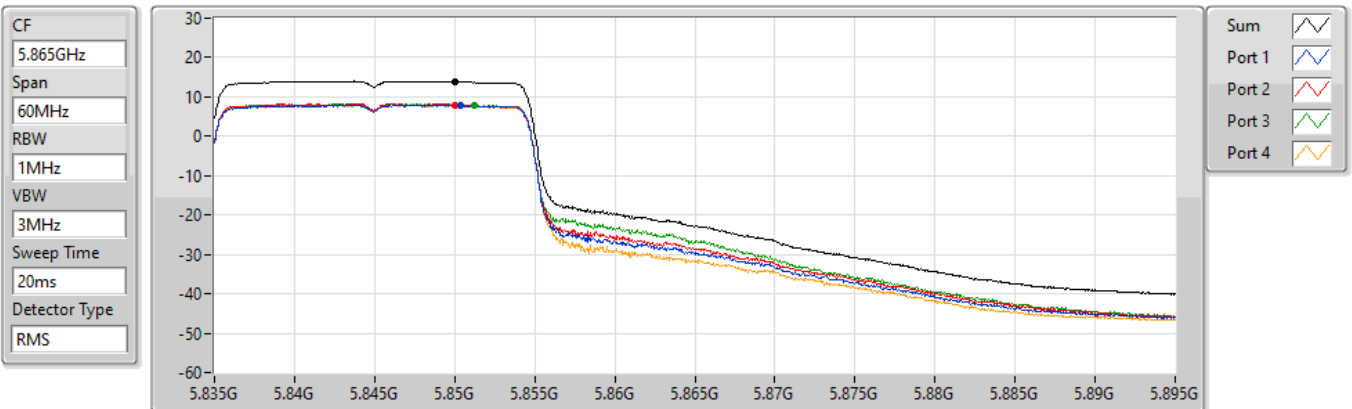
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.88 | 13.88 | 7.83 | 7.87 | 7.88 | 8.00 |

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5845MHz Straddle 5.85-5.895GHz

12/06/2021



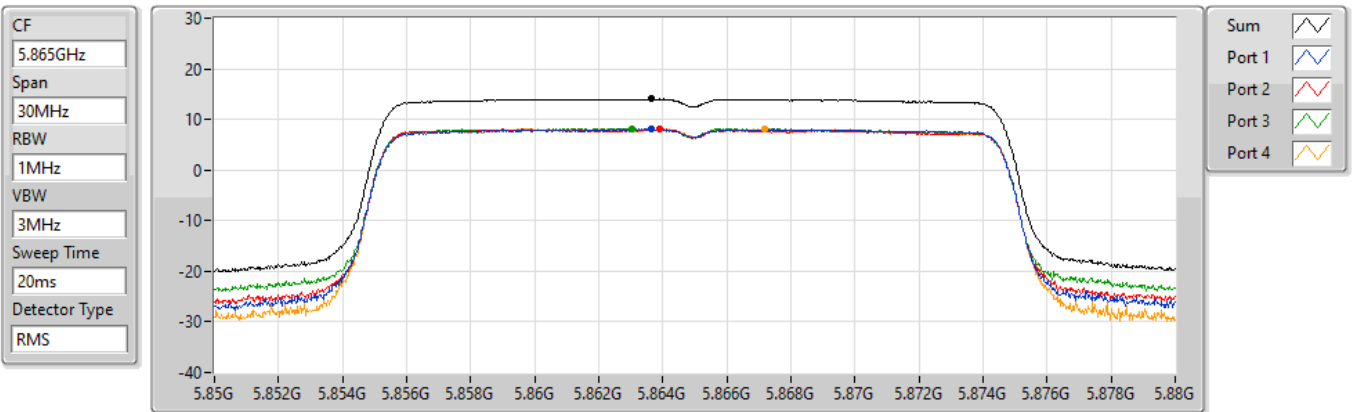
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.88 | 13.88 | 7.72 | 7.99 | 7.92 | 7.90 |

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5865MHz

12/06/2021



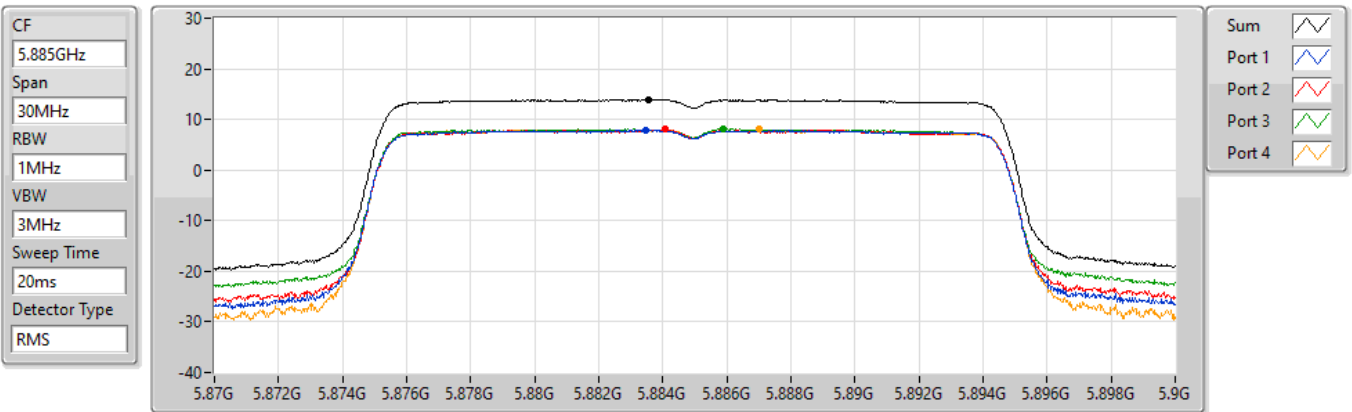
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 14.03 | 14.03 | 8.18 | 8.09 | 8.16 | 8.12 |

802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5885MHz

12/06/2021



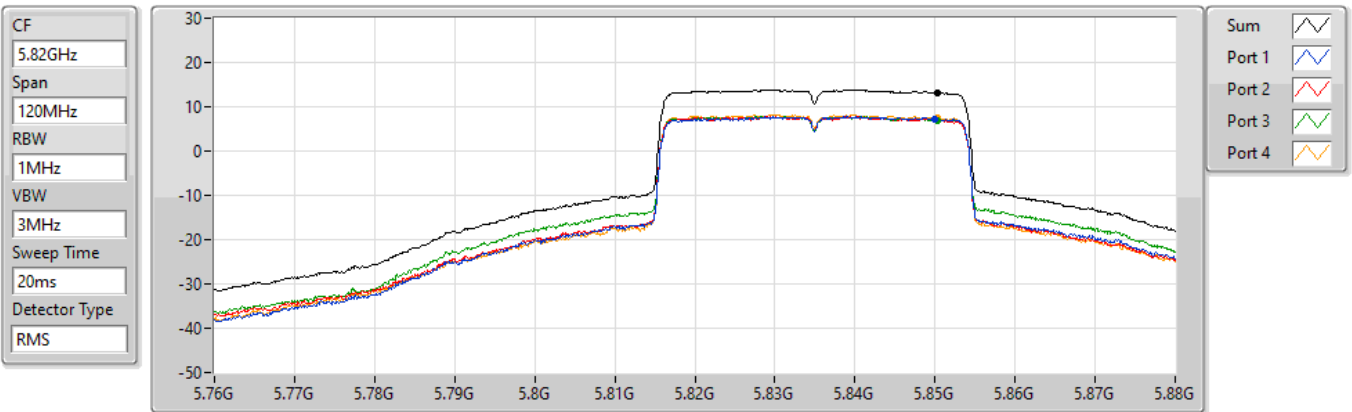
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.88 | 13.88 | 7.90 | 8.00 | 8.08 | 7.99 |

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5835MHz Straddle 5.725-5.85GHz

12/06/2021



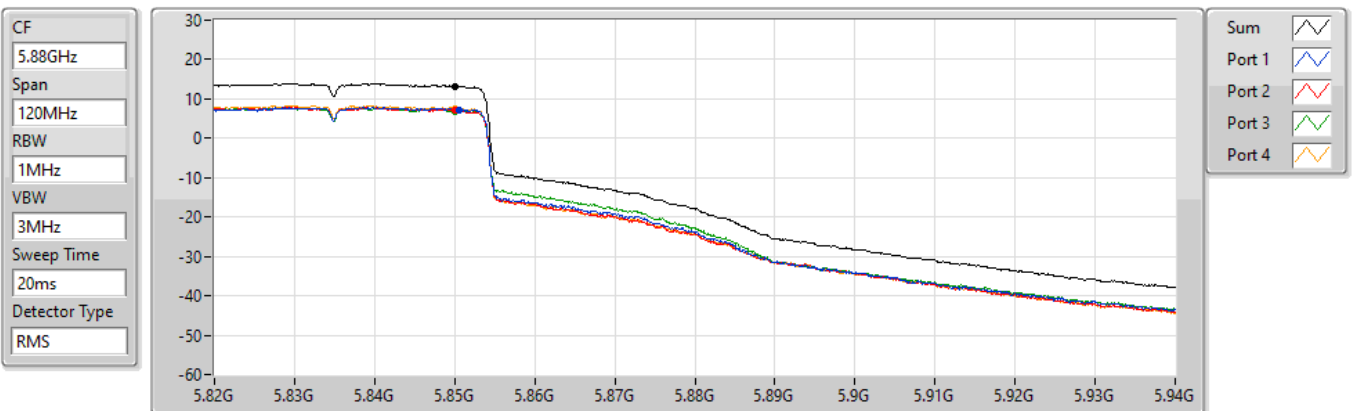
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.26 | 13.26 | 7.31 | 7.10 | 7.01 | 7.64 |

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5835MHz Straddle 5.85-5.895GHz

12/06/2021



| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.22 | 13.22 | 7.30 | 7.19 | 6.90 | 7.56 |

802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5875MHz

27/10/2021

CF
5.875GHz

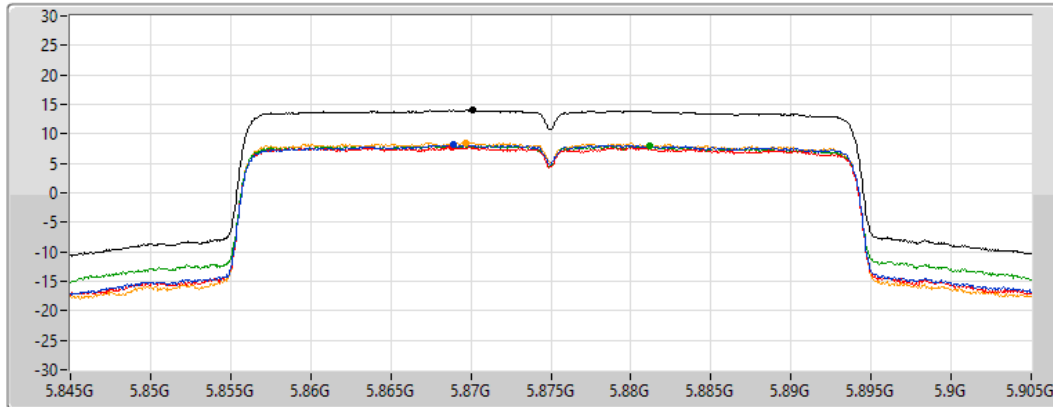
Span
60MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 13.87 | 13.87 | 8.02 | 7.52 | 7.49 | 8.32 |

802.11ax HEW80_Nss1,(MCS0)_4TX

PSD

5855MHz Straddle 5.725-5.85GHz

12/06/2021

CF
5.79GHz

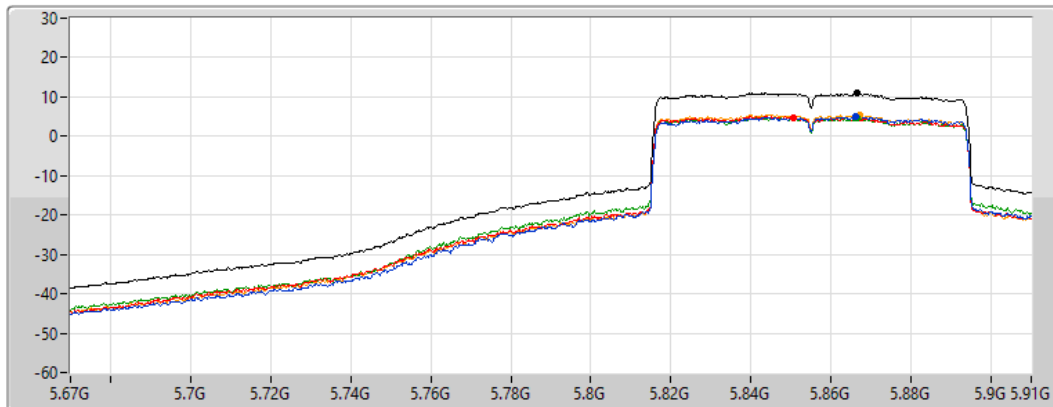
Span
240MHz


RBW
1MHz


VBW
3MHz


Sweep Time
20ms


Detector Type
RMS




Sum 

Port 1 

Port 2 

Port 3 

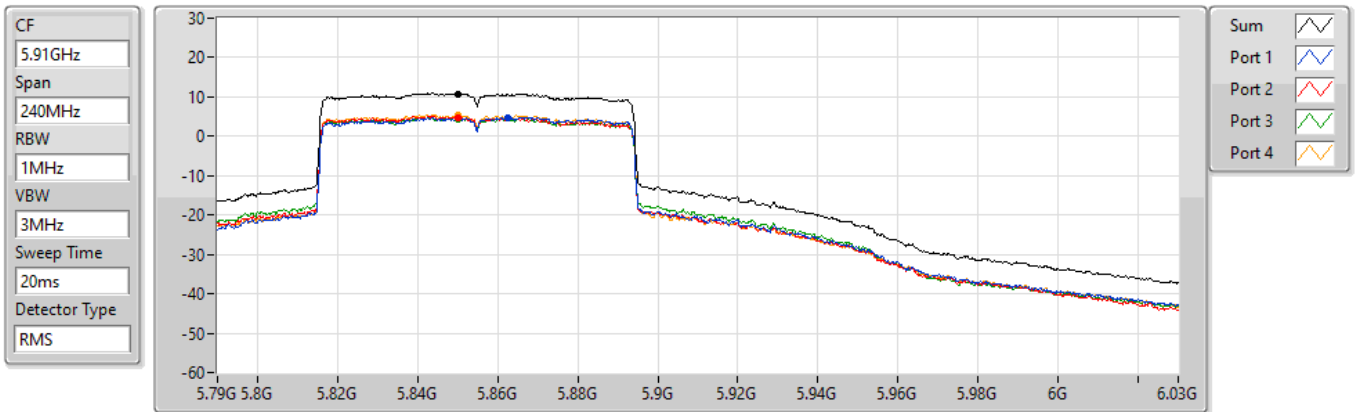
Port 4 

| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.86 | 10.86 | 4.91 | 4.74 | 4.68 | 5.27 |

802.11ax HEW80_Nss1,(MCS0)_4TX
5855MHz Straddle 5.85-5.895GHz

PSD

12/06/2021

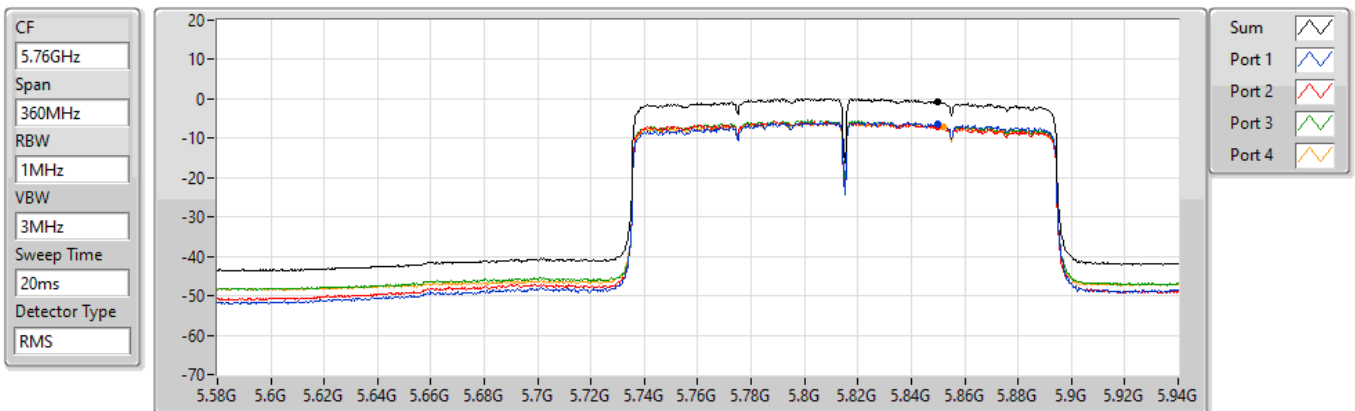


| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| 10.75 | 10.75 | 4.78 | 4.72 | 4.43 | 5.30 |

802.11ax HEW160_Nss1,(MCS0)_4TX
5815MHz Straddle 5.725-5.85GHz

PSD

12/06/2021



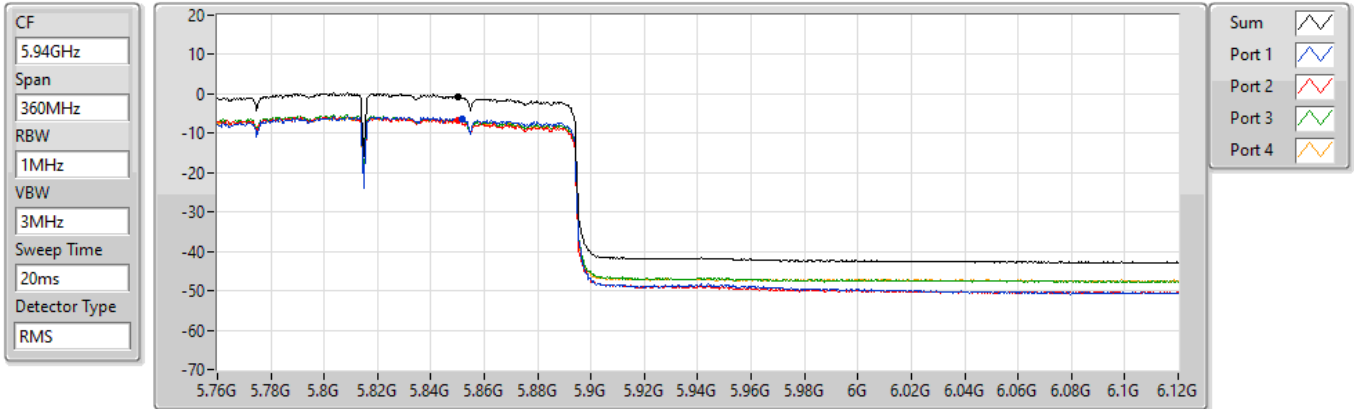
| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.65 | -0.65 | -6.33 | -6.96 | -6.38 | -7.02 |

802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz Straddle 5.85-5.895GHz

PSD

12/06/2021



| Sum | PD | Port 1 | Port 2 | Port 3 | Port 4 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) | (dBm/RBW) |
| -0.78 | -0.78 | -6.48 | -6.85 | -6.71 | -6.87 |

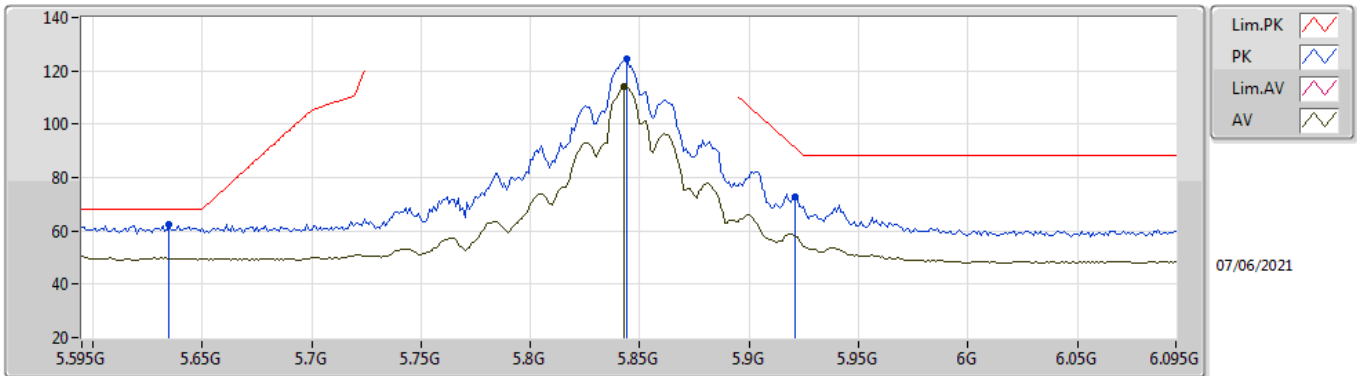


Summary

| Mode | Result | Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comments |
|-------------------------------|--------|------|-----------|----------------|----------------|-------------|----------|------------|-------------|------------|----------|
| 5.85-5.895GHz | - | - | - | - | - | - | - | - | - | - | - |
| 802.11ax HEW20_Nss1(MCS0)_4TX | Pass | PK | 5.895G | 110.17 | 110.20 | -0.03 | 3 | Horizontal | 57 | 1.58 | - |

802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

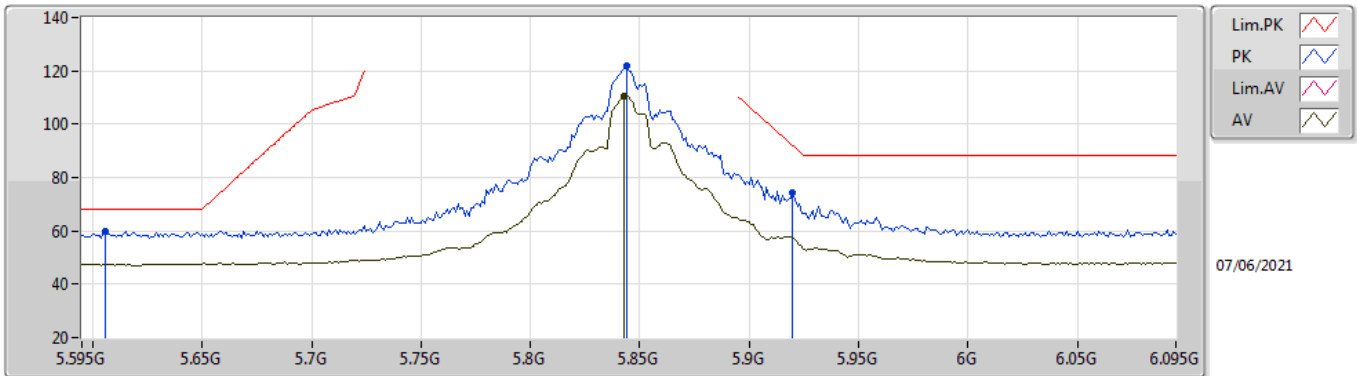


EUT_V_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.635G | 62.27 | 68.20 | -5.93 | 55.99 | 3 | Vertical | 82 | 1.93 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.844G | 124.42 | Inf | -Inf | 118.03 | 3 | Vertical | 82 | 1.93 | - | 34.40 | 6.92 | 34.93 |
| AV | 5.843G | 113.97 | Inf | -Inf | 107.58 | 3 | Vertical | 82 | 1.93 | - | 34.40 | 6.92 | 34.93 |
| PK | 5.921G | 72.65 | 91.13 | -18.48 | 65.95 | 3 | Vertical | 82 | 1.93 | - | 34.66 | 6.96 | 34.92 |

802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

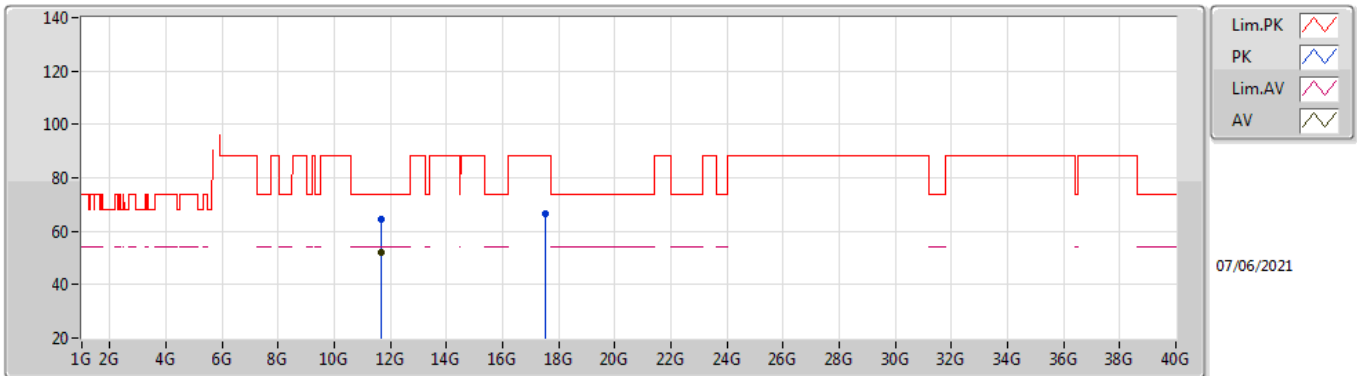


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.606G | 59.62 | 68.20 | -8.58 | 53.36 | 3 | Horizontal | 66 | 1.80 | - | 34.40 | 6.80 | 34.94 |
| PK | 5.844G | 121.76 | Inf | -Inf | 115.37 | 3 | Horizontal | 66 | 1.80 | - | 34.40 | 6.92 | 34.93 |
| AV | 5.843G | 110.73 | Inf | -Inf | 104.34 | 3 | Horizontal | 66 | 1.80 | - | 34.40 | 6.92 | 34.93 |
| PK | 5.92G | 74.45 | 91.87 | -17.42 | 67.75 | 3 | Horizontal | 66 | 1.80 | - | 34.66 | 6.96 | 34.92 |

802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

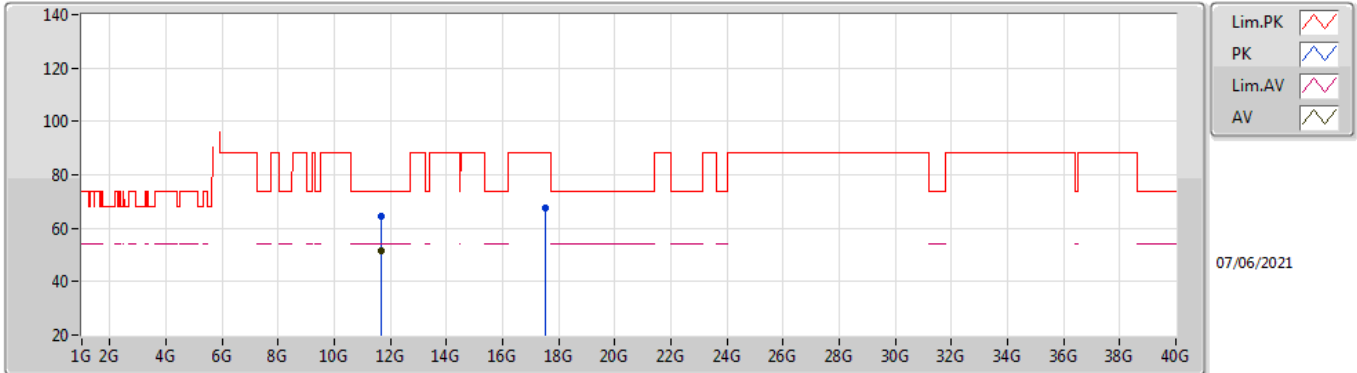


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.68972G | 64.65 | 74.00 | -9.35 | 49.81 | 3 | Vertical | 180 | 2.08 | - | 39.60 | 9.94 | 34.70 |
| AV | 11.68936G | 51.90 | 54.00 | -2.10 | 37.06 | 3 | Vertical | 180 | 2.08 | - | 39.60 | 9.94 | 34.70 |
| PK | 17.53496G | 66.48 | 88.20 | -21.72 | 45.74 | 3 | Vertical | 153 | 1.73 | - | 42.75 | 12.54 | 34.55 |

802.11a_Nss1,(6Mbps)_4TX

5845MHz_TX

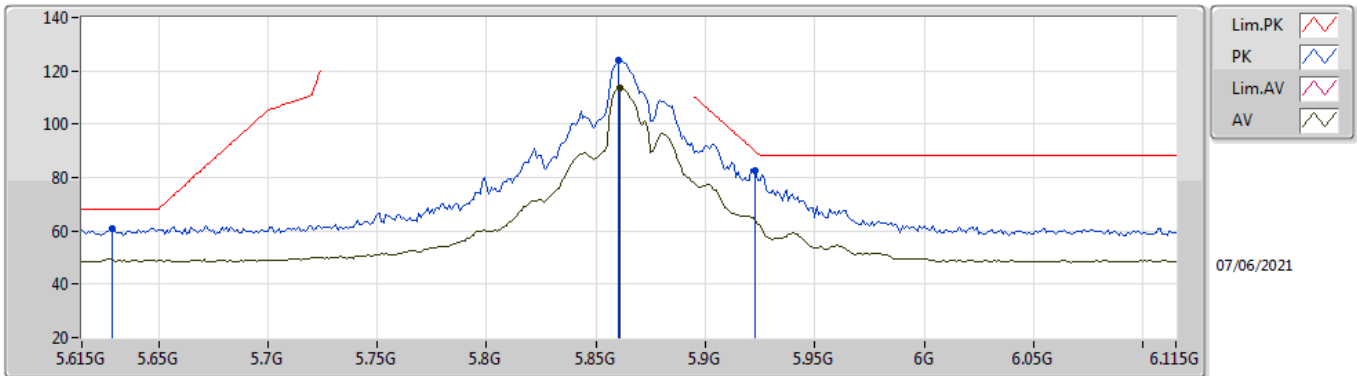


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 11.69104G | 64.34 | 74.00 | -9.66 | 49.50 | 3 | Horizontal | 226 | 1.36 | - | 39.60 | 9.94 | 34.70 |
| AV | 11.69048G | 51.48 | 54.00 | -2.52 | 36.64 | 3 | Horizontal | 226 | 1.36 | - | 39.60 | 9.94 | 34.70 |
| PK | 17.53232G | 67.69 | 88.20 | -20.51 | 46.98 | 3 | Horizontal | 195 | 1.80 | - | 42.72 | 12.54 | 34.55 |

802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

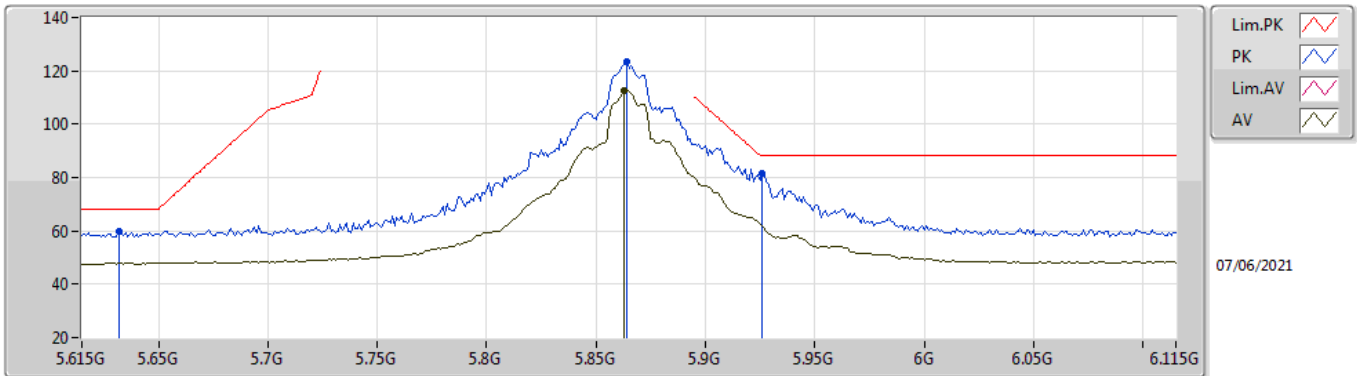


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.629G | 60.96 | 68.20 | -7.24 | 54.69 | 3 | Vertical | 285 | 2.07 | - | 34.40 | 6.81 | 34.94 |
| PK | 5.86G | 124.11 | Inf | -Inf | 117.65 | 3 | Vertical | 285 | 2.07 | - | 34.46 | 6.93 | 34.93 |
| AV | 5.861G | 113.78 | Inf | -Inf | 107.31 | 3 | Vertical | 285 | 2.07 | - | 34.47 | 6.93 | 34.93 |
| PK | 5.923G | 82.65 | 89.67 | -7.02 | 75.96 | 3 | Vertical | 285 | 2.07 | - | 34.65 | 6.96 | 34.92 |

802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

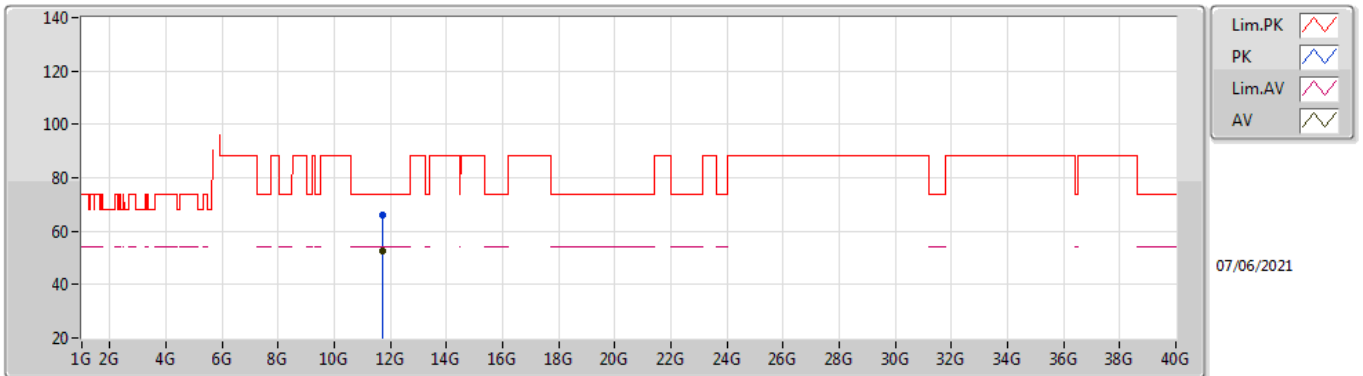


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.632G | 59.66 | 68.20 | -8.54 | 53.38 | 3 | Horizontal | 63 | 1.63 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.864G | 123.27 | Inf | -Inf | 116.79 | 3 | Horizontal | 63 | 1.63 | - | 34.48 | 6.93 | 34.93 |
| AV | 5.863G | 112.66 | Inf | -Inf | 106.18 | 3 | Horizontal | 63 | 1.63 | - | 34.48 | 6.93 | 34.93 |
| PK | 5.926G | 81.81 | 88.20 | -6.39 | 75.12 | 3 | Horizontal | 63 | 1.63 | - | 34.65 | 6.96 | 34.92 |

802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

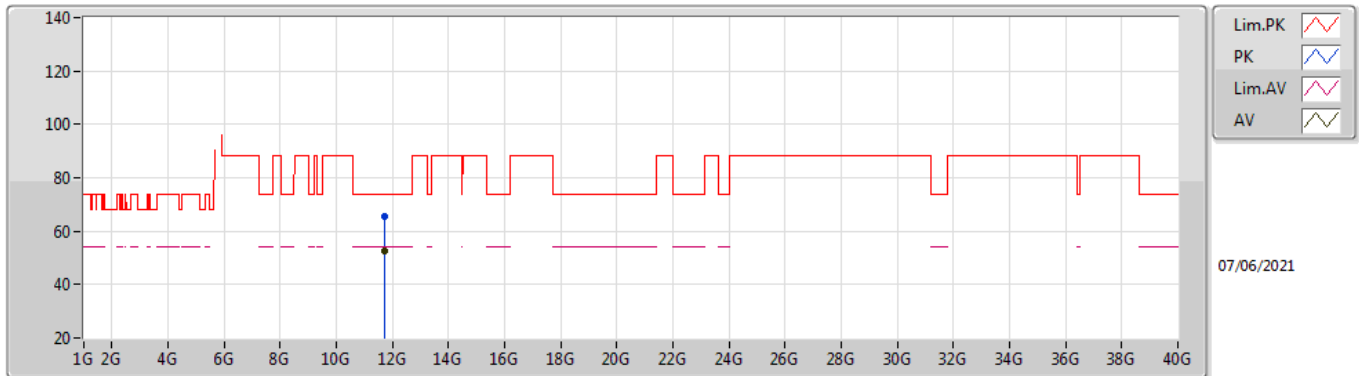


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.72736G | 65.90 | 74.00 | -8.10 | 51.05 | 3 | Vertical | 183 | 2.11 | - | 39.60 | 9.95 | 34.70 |
| AV | 11.72888G | 52.82 | 54.00 | -1.18 | 37.97 | 3 | Vertical | 183 | 2.11 | - | 39.60 | 9.95 | 34.70 |

802.11a_Nss1,(6Mbps)_4TX

5865MHz_TX

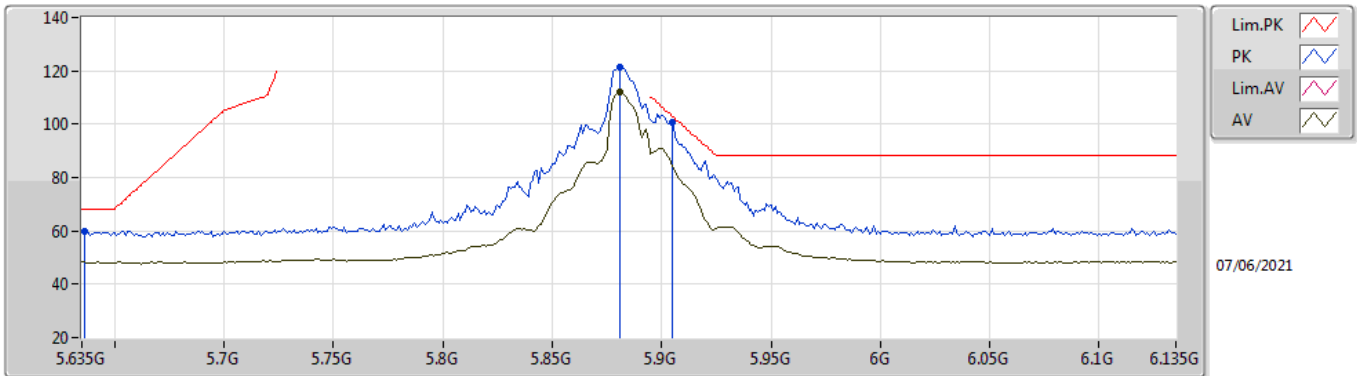


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.73084G | 65.64 | 74.00 | -8.36 | 50.80 | 3 | Horizontal | 221 | 1.36 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.72972G | 52.49 | 54.00 | -1.51 | 37.65 | 3 | Horizontal | 221 | 1.36 | - | 39.60 | 9.95 | 34.71 |

802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

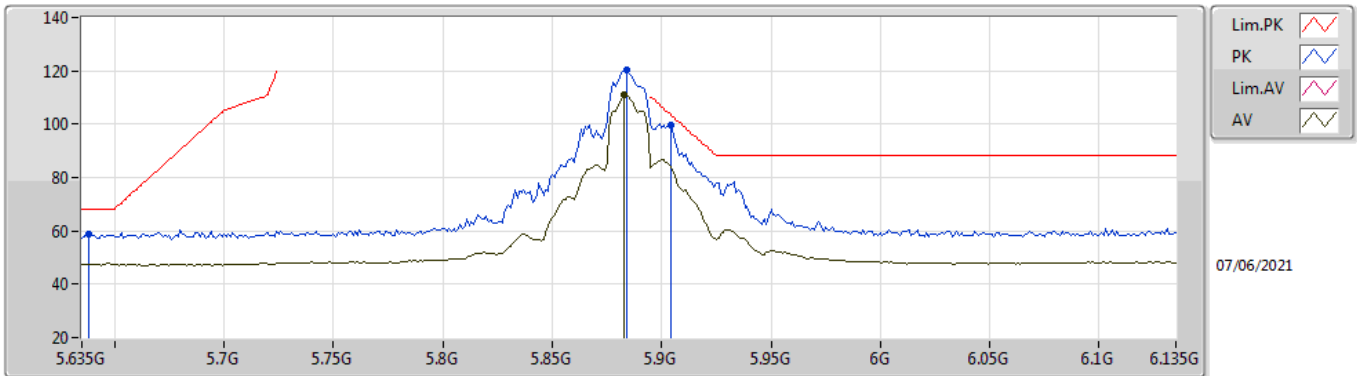


EUT Y_4TX
Setting 105
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.636G | 59.64 | 68.20 | -8.56 | 53.36 | 3 | Vertical | 285 | 2.11 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.881G | 121.14 | Inf | -Inf | 114.54 | 3 | Vertical | 285 | 2.11 | - | 34.59 | 6.94 | 34.93 |
| AV | 5.881G | 111.89 | Inf | -Inf | 105.29 | 3 | Vertical | 285 | 2.11 | - | 34.59 | 6.94 | 34.93 |
| PK | 5.905G | 100.53 | 102.87 | -2.34 | 93.82 | 3 | Vertical | 285 | 2.11 | - | 34.69 | 6.95 | 34.93 |

802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

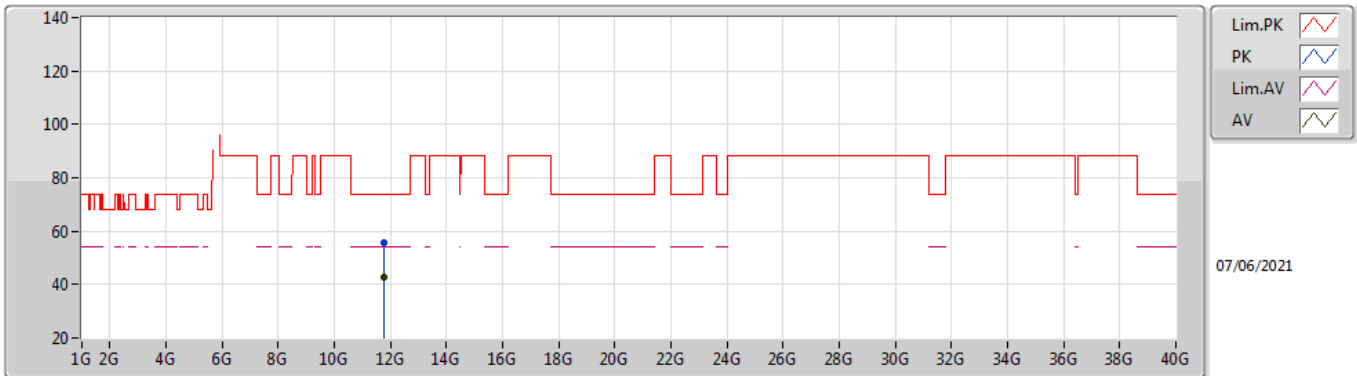


EUT Y_4TX
Setting 105
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.638G | 58.69 | 68.20 | -9.51 | 52.41 | 3 | Horizontal | 62 | 1.59 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.884G | 120.53 | Inf | -Inf | 113.92 | 3 | Horizontal | 62 | 1.59 | - | 34.60 | 6.94 | 34.93 |
| AV | 5.883G | 110.80 | Inf | -Inf | 104.19 | 3 | Horizontal | 62 | 1.59 | - | 34.60 | 6.94 | 34.93 |
| PK | 5.904G | 99.44 | 103.60 | -4.16 | 92.73 | 3 | Horizontal | 62 | 1.59 | - | 34.69 | 6.95 | 34.93 |

802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

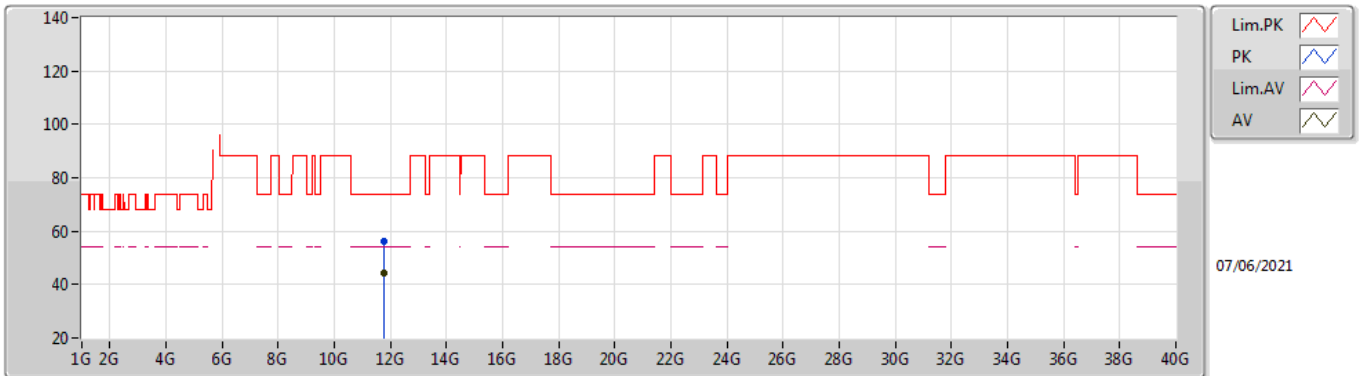


EUT Y_4TX
Setting 105
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.7776G | 55.82 | 74.00 | -18.18 | 40.98 | 3 | Vertical | 53 | 1.80 | - | 39.60 | 9.96 | 34.72 |
| AV | 11.76124G | 42.56 | 54.00 | -11.44 | 27.72 | 3 | Vertical | 53 | 1.80 | - | 39.60 | 9.95 | 34.71 |

802.11a_Nss1,(6Mbps)_4TX

5885MHz_TX

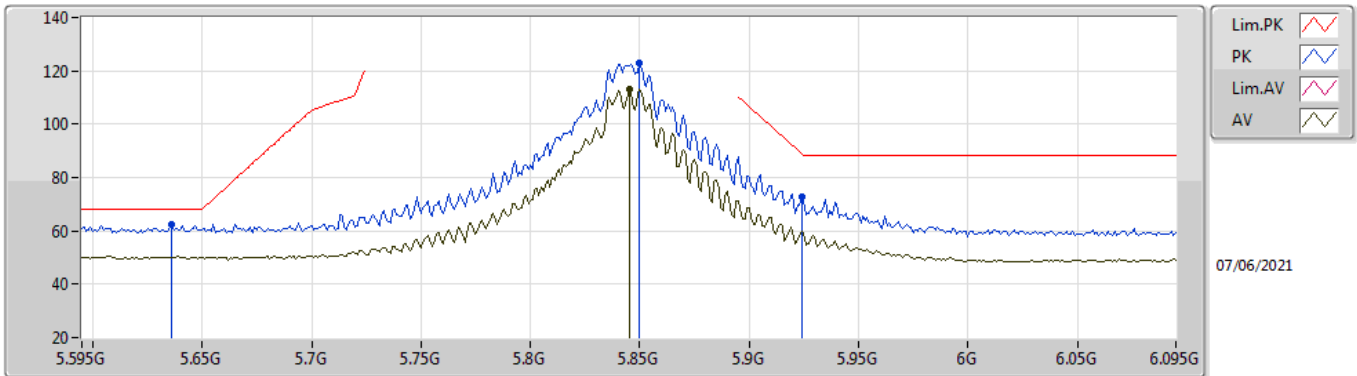


EUT Y_4TX
Setting 105
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.77012G | 56.25 | 74.00 | -17.75 | 41.41 | 3 | Horizontal | 153 | 1.80 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.76985G | 44.49 | 54.00 | -9.51 | 29.65 | 3 | Horizontal | 153 | 1.80 | - | 39.60 | 9.95 | 34.71 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

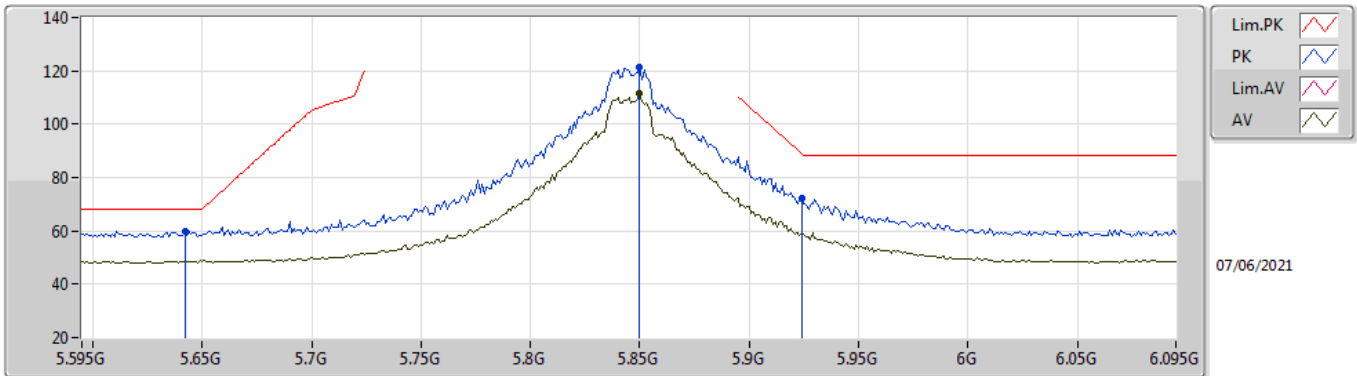


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.636G | 62.41 | 68.20 | -5.79 | 56.13 | 3 | Vertical | 75 | 2.04 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.85G | 122.83 | Inf | -Inf | 116.43 | 3 | Vertical | 75 | 2.04 | - | 34.40 | 6.93 | 34.93 |
| AV | 5.845G | 113.08 | Inf | -Inf | 106.69 | 3 | Vertical | 75 | 2.04 | - | 34.40 | 6.92 | 34.93 |
| PK | 5.924G | 72.73 | 88.93 | -16.20 | 66.04 | 3 | Vertical | 75 | 2.04 | - | 34.65 | 6.96 | 34.92 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

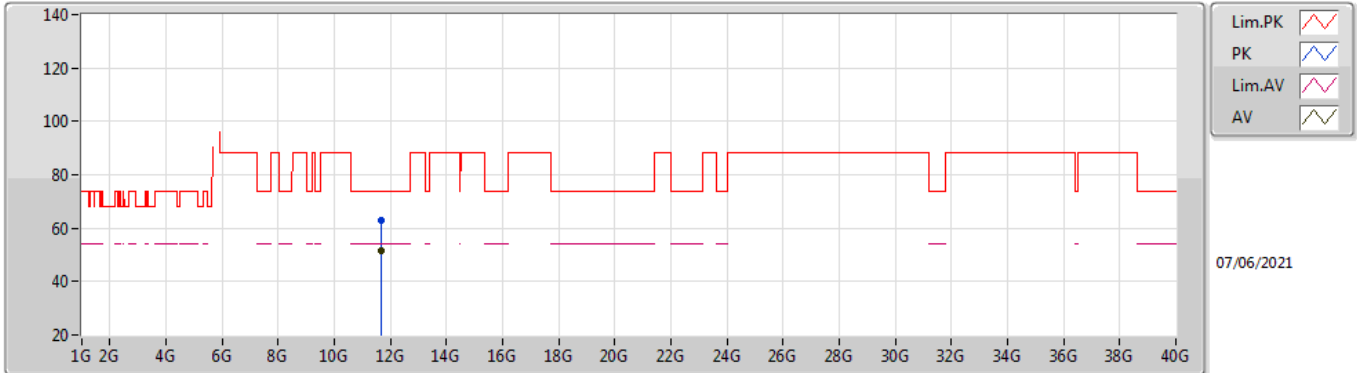


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.642G | 59.93 | 68.20 | -8.27 | 53.65 | 3 | Horizontal | 61 | 1.61 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.85G | 121.54 | Inf | -Inf | 115.14 | 3 | Horizontal | 61 | 1.61 | - | 34.40 | 6.93 | 34.93 |
| AV | 5.85G | 111.67 | Inf | -Inf | 105.27 | 3 | Horizontal | 61 | 1.61 | - | 34.40 | 6.93 | 34.93 |
| PK | 5.924G | 72.50 | 88.93 | -16.43 | 65.81 | 3 | Horizontal | 61 | 1.61 | - | 34.65 | 6.96 | 34.92 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

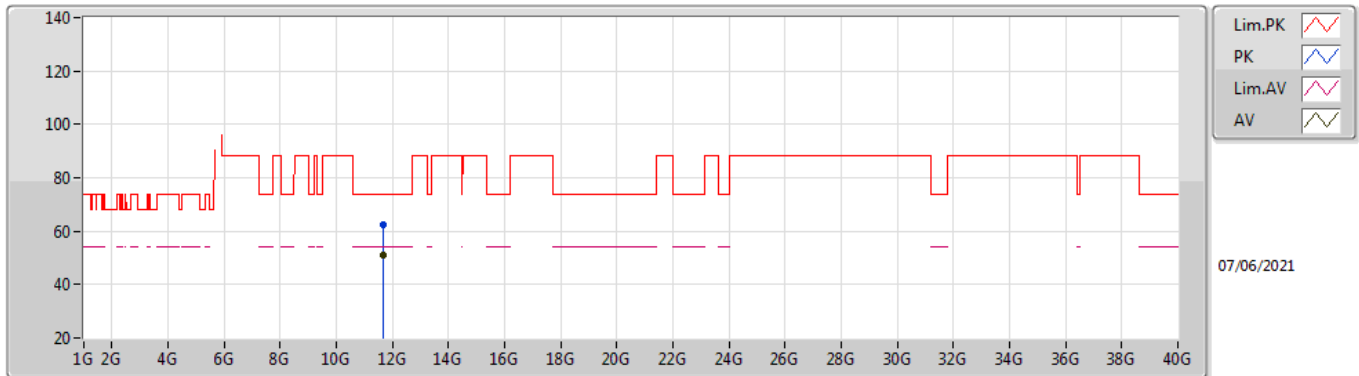


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.6897G | 62.84 | 74.00 | -11.16 | 48.00 | 3 | Vertical | 184 | 2.17 | - | 39.60 | 9.94 | 34.70 |
| AV | 11.68958G | 51.49 | 54.00 | -2.51 | 36.65 | 3 | Vertical | 184 | 2.17 | - | 39.60 | 9.94 | 34.70 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5845MHz_TX

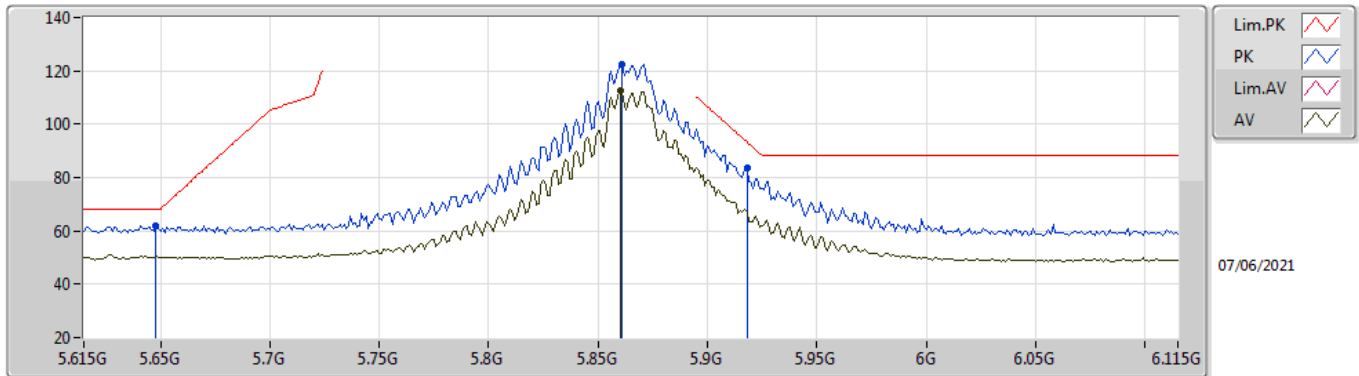


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.6786G | 62.25 | 74.00 | -11.75 | 47.40 | 3 | Horizontal | 209 | 1.80 | - | 39.60 | 9.94 | 34.69 |
| AV | 11.68844G | 51.13 | 54.00 | -2.87 | 36.29 | 3 | Horizontal | 209 | 1.80 | - | 39.60 | 9.94 | 34.70 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

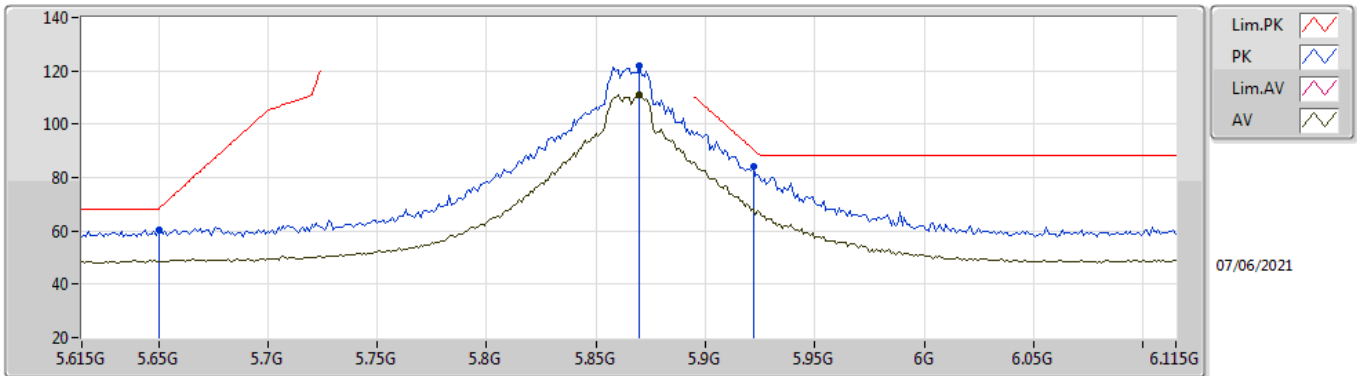


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.648G | 62.13 | 68.20 | -6.07 | 55.85 | 3 | Vertical | 75 | 1.80 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.861G | 122.44 | Inf | -Inf | 115.97 | 3 | Vertical | 75 | 1.80 | - | 34.47 | 6.93 | 34.93 |
| AV | 5.86G | 112.68 | Inf | -Inf | 106.22 | 3 | Vertical | 75 | 1.80 | - | 34.46 | 6.93 | 34.93 |
| PK | 5.918G | 83.68 | 93.33 | -9.65 | 76.98 | 3 | Vertical | 75 | 1.80 | - | 34.66 | 6.96 | 34.92 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

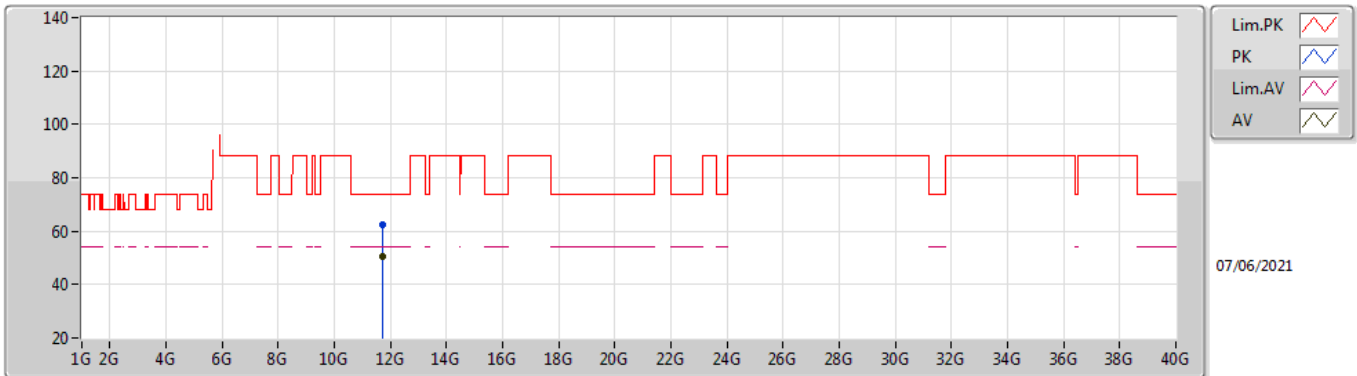


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.65G | 60.60 | 68.20 | -7.60 | 54.31 | 3 | Horizontal | 60 | 1.48 | - | 34.40 | 6.83 | 34.94 |
| PK | 5.87G | 121.67 | Inf | -Inf | 115.14 | 3 | Horizontal | 60 | 1.48 | - | 34.52 | 6.94 | 34.93 |
| AV | 5.87G | 111.08 | Inf | -Inf | 104.55 | 3 | Horizontal | 60 | 1.48 | - | 34.52 | 6.94 | 34.93 |
| PK | 5.922G | 84.04 | 90.40 | -6.36 | 77.34 | 3 | Horizontal | 60 | 1.48 | - | 34.66 | 6.96 | 34.92 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

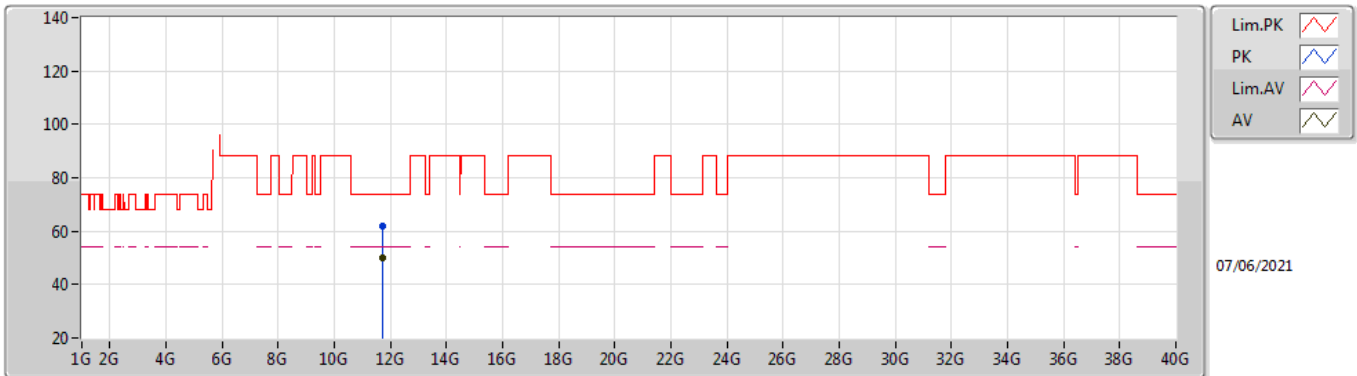


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.72934G | 62.26 | 74.00 | -11.74 | 47.42 | 3 | Vertical | 178 | 2.10 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.72988G | 50.50 | 54.00 | -3.50 | 35.66 | 3 | Vertical | 178 | 2.10 | - | 39.60 | 9.95 | 34.71 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5865MHz_TX

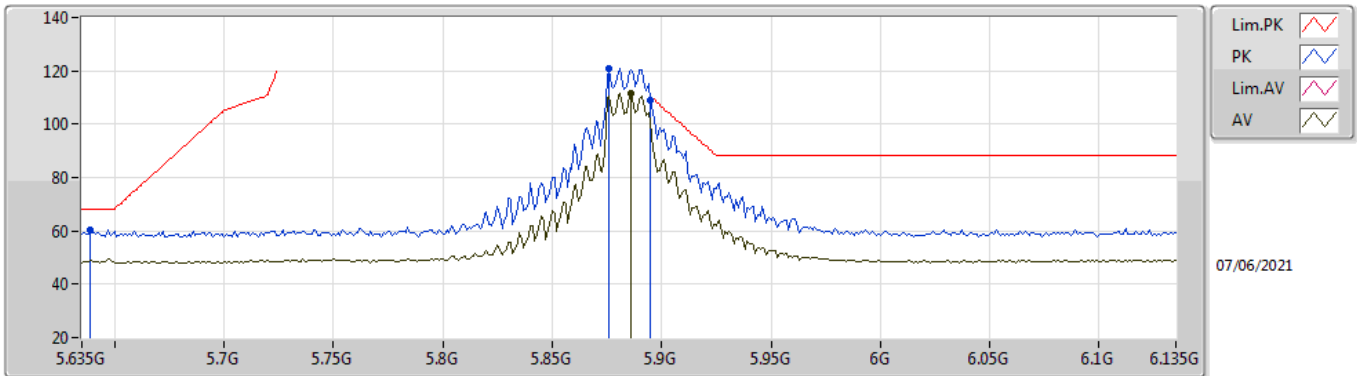


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.72322G | 61.89 | 74.00 | -12.11 | 47.05 | 3 | Horizontal | 208 | 1.79 | - | 39.60 | 9.94 | 34.70 |
| AV | 11.72826G | 50.21 | 54.00 | -3.79 | 35.36 | 3 | Horizontal | 208 | 1.79 | - | 39.60 | 9.95 | 34.70 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

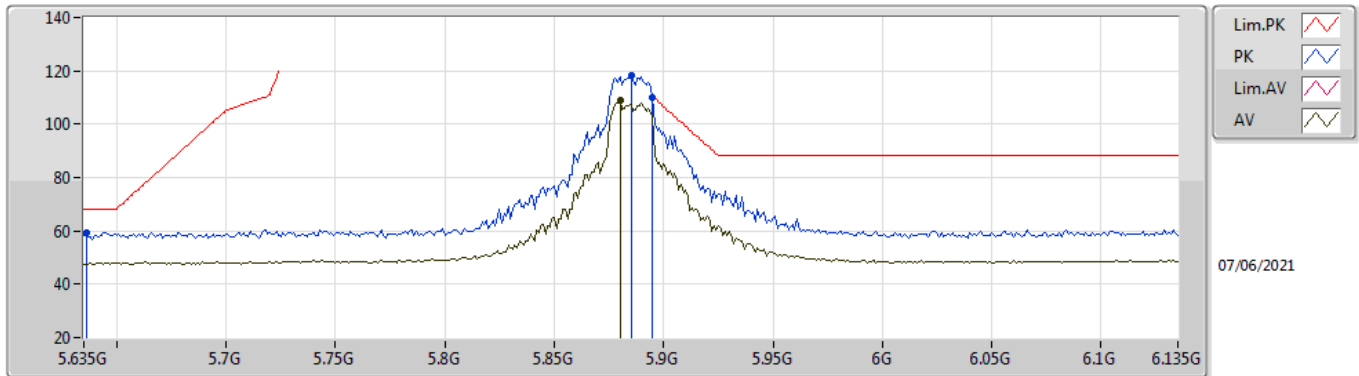


EUT Y_4TX
Setting 103
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.639G | 60.34 | 68.20 | -7.86 | 54.06 | 3 | Vertical | 331 | 1.37 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.876G | 120.70 | Inf | -Inf | 114.13 | 3 | Vertical | 331 | 1.37 | - | 34.56 | 6.94 | 34.93 |
| PK | 5.895G | 108.79 | 110.20 | -1.41 | 102.10 | 3 | Vertical | 331 | 1.37 | - | 34.67 | 6.95 | 34.93 |
| AV | 5.886G | 111.39 | Inf | -Inf | 104.76 | 3 | Vertical | 331 | 1.37 | - | 34.62 | 6.94 | 34.93 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

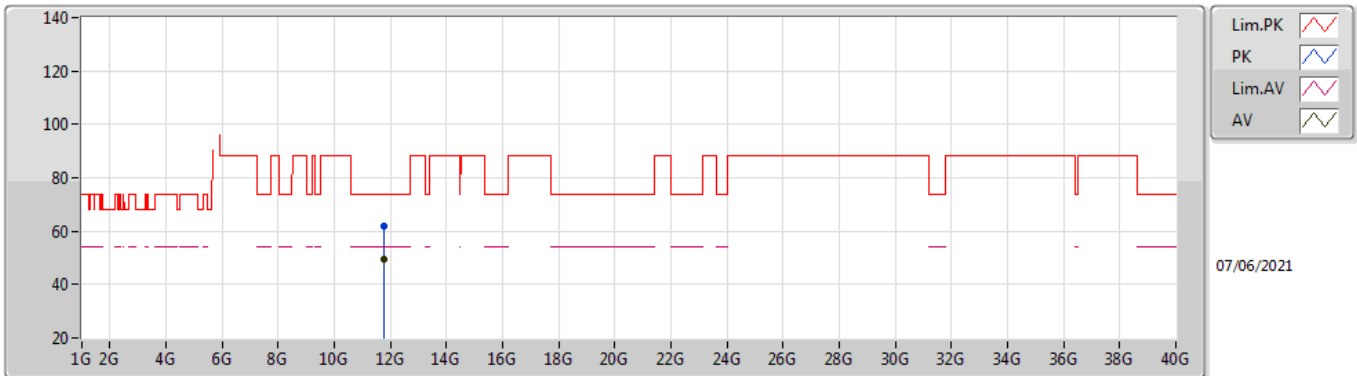


EUT Y_4TX
Setting 103
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.636G | 59.55 | 68.20 | -8.65 | 53.27 | 3 | Horizontal | 57 | 1.58 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.885G | 118.24 | Inf | -Inf | 111.62 | 3 | Horizontal | 57 | 1.58 | - | 34.61 | 6.94 | 34.93 |
| AV | 5.88G | 109.05 | Inf | -Inf | 102.46 | 3 | Horizontal | 57 | 1.58 | - | 34.58 | 6.94 | 34.93 |
| PK | 5.895G | 110.17 | 110.20 | -0.03 | 103.48 | 3 | Horizontal | 57 | 1.58 | - | 34.67 | 6.95 | 34.93 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

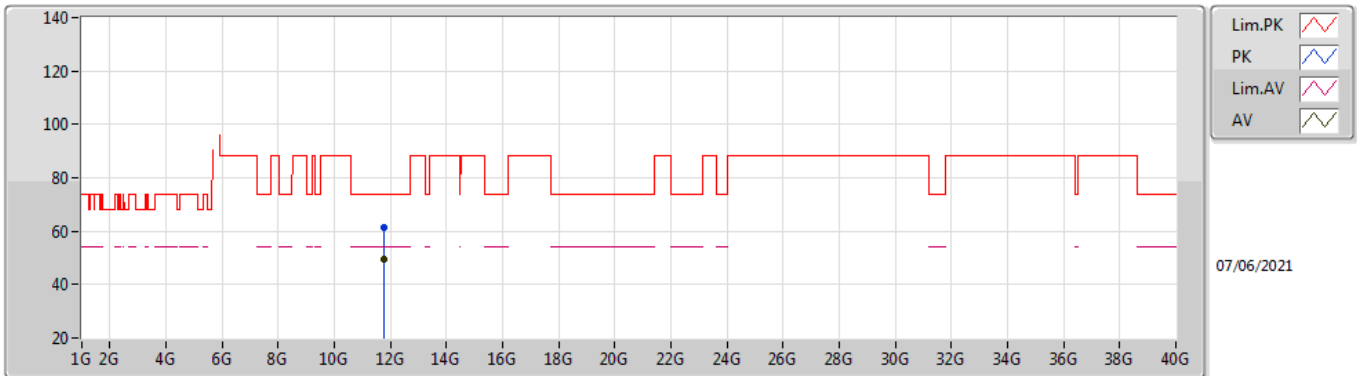


EUT Y_4TX
Setting 103
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 11.76838G | 61.72 | 74.00 | -12.28 | 46.88 | 3 | Vertical | 182 | 2.04 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.7694G | 49.72 | 54.00 | -4.28 | 34.88 | 3 | Vertical | 182 | 2.04 | - | 39.60 | 9.95 | 34.71 |

802.11ax HEW20_Nss1,(MCS0)_4TX

5885MHz_TX

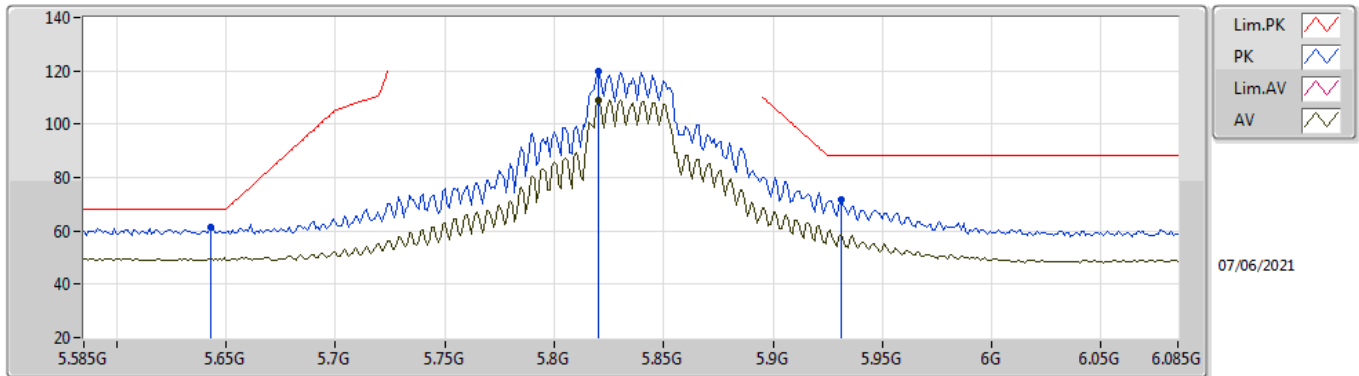


EUT Y_4TX
Setting 103
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 11.76844G | 61.20 | 74.00 | -12.80 | 46.36 | 3 | Horizontal | 207 | 1.79 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.7685G | 49.42 | 54.00 | -4.58 | 34.58 | 3 | Horizontal | 207 | 1.79 | - | 39.60 | 9.95 | 34.71 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

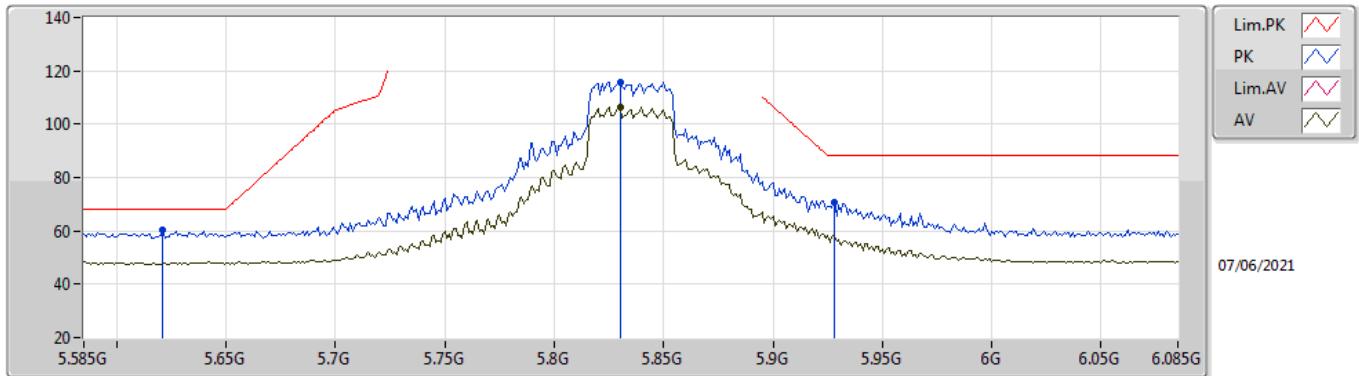


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.643G | 61.60 | 68.20 | -6.60 | 55.32 | 3 | Vertical | 73 | 1.91 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.82G | 119.83 | Inf | -Inf | 113.45 | 3 | Vertical | 73 | 1.91 | - | 34.40 | 6.91 | 34.93 |
| AV | 5.82G | 108.97 | Inf | -Inf | 102.59 | 3 | Vertical | 73 | 1.91 | - | 34.40 | 6.91 | 34.93 |
| PK | 5.931G | 71.79 | 88.20 | -16.41 | 65.10 | 3 | Vertical | 73 | 1.91 | - | 34.64 | 6.97 | 34.92 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

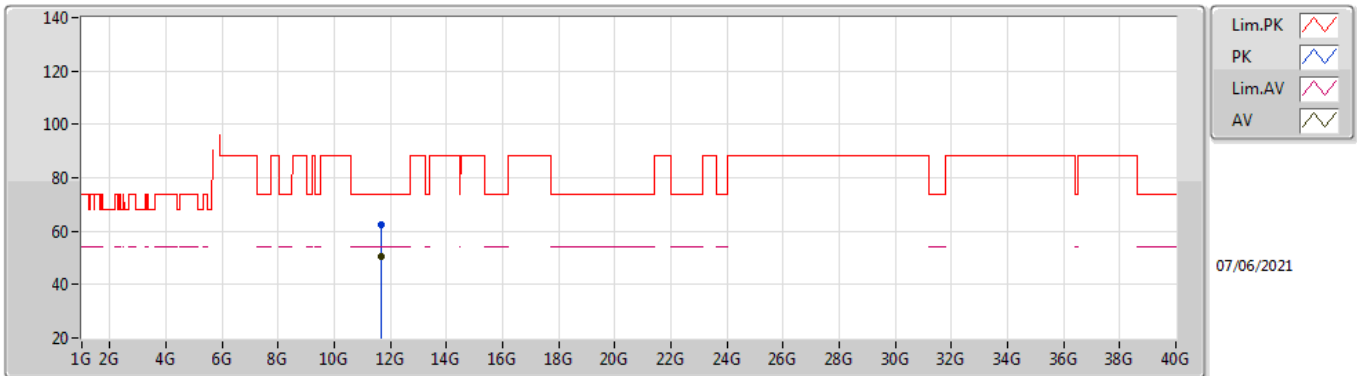


EUT Y_4TX
Setting 108
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.621G | 60.43 | 68.20 | -7.77 | 54.16 | 3 | Horizontal | 64 | 1.72 | - | 34.40 | 6.81 | 34.94 |
| PK | 5.83G | 115.84 | Inf | -Inf | 109.45 | 3 | Horizontal | 64 | 1.72 | - | 34.40 | 6.92 | 34.93 |
| AV | 5.83G | 106.54 | Inf | -Inf | 100.15 | 3 | Horizontal | 64 | 1.72 | - | 34.40 | 6.92 | 34.93 |
| PK | 5.928G | 70.76 | 88.20 | -17.44 | 64.08 | 3 | Horizontal | 64 | 1.72 | - | 34.64 | 6.96 | 34.92 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

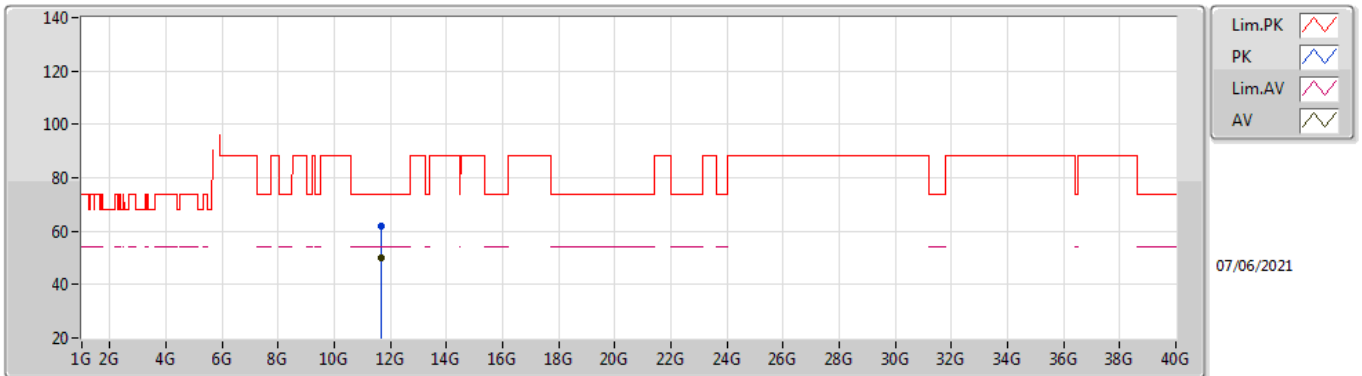


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.67018G | 62.48 | 74.00 | -11.52 | 47.64 | 3 | Vertical | 181 | 2.13 | - | 39.60 | 9.93 | 34.69 |
| AV | 11.66994G | 50.63 | 54.00 | -3.37 | 35.79 | 3 | Vertical | 181 | 2.13 | - | 39.60 | 9.93 | 34.69 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5835MHz_TX

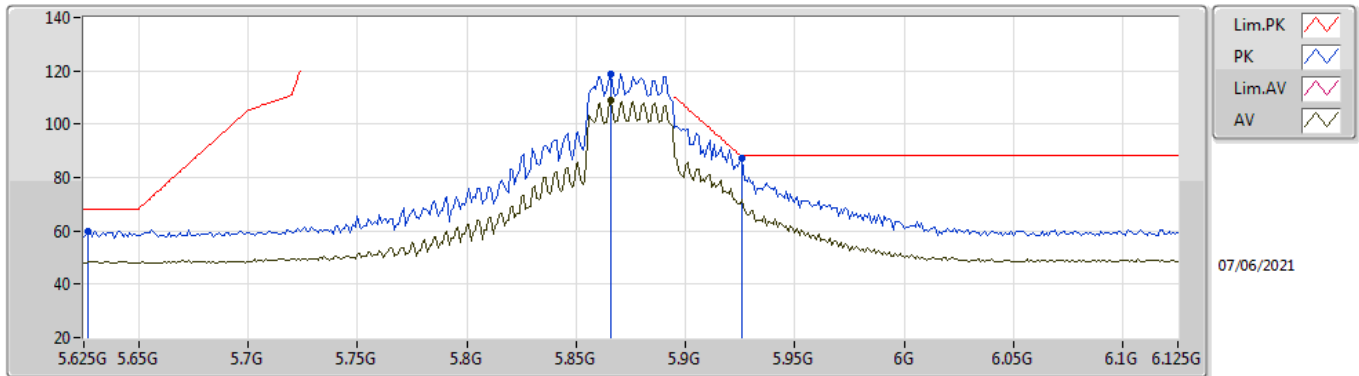


EUT Y_4TX
Setting 108
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 11.66856G | 61.80 | 74.00 | -12.20 | 46.96 | 3 | Horizontal | 208 | 2.03 | - | 39.60 | 9.93 | 34.69 |
| AV | 11.6691G | 49.80 | 54.00 | -4.20 | 34.96 | 3 | Horizontal | 208 | 2.03 | - | 39.60 | 9.93 | 34.69 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX



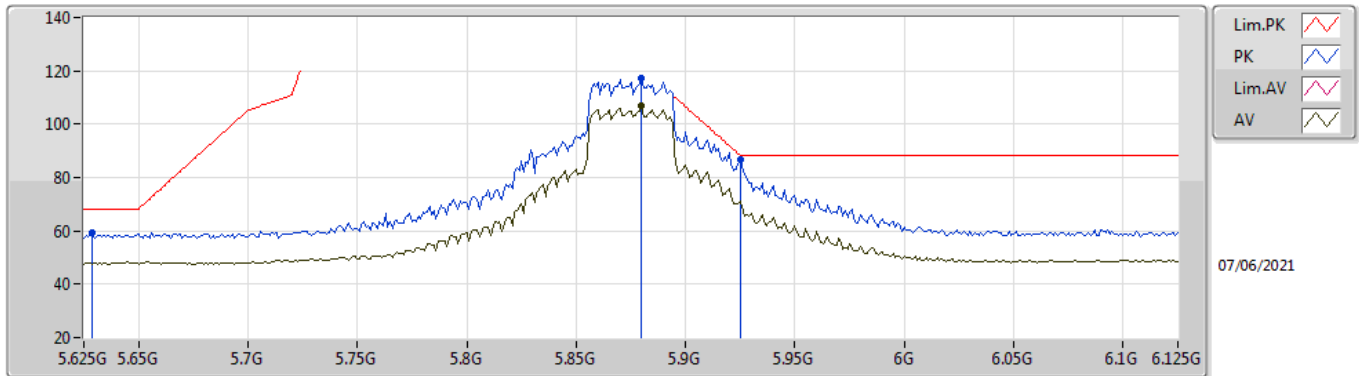
07/06/2021

EUT Y_4TX
Setting 104
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.627G | 59.95 | 68.20 | -8.25 | 53.68 | 3 | Vertical | 333 | 1.48 | - | 34.40 | 6.81 | 34.94 |
| PK | 5.866G | 118.99 | Inf | -Inf | 112.49 | 3 | Vertical | 333 | 1.48 | - | 34.50 | 6.93 | 34.93 |
| AV | 5.866G | 108.71 | Inf | -Inf | 102.21 | 3 | Vertical | 333 | 1.48 | - | 34.50 | 6.93 | 34.93 |
| PK | 5.926G | 87.50 | 88.20 | -0.70 | 80.81 | 3 | Vertical | 333 | 1.48 | - | 34.65 | 6.96 | 34.92 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

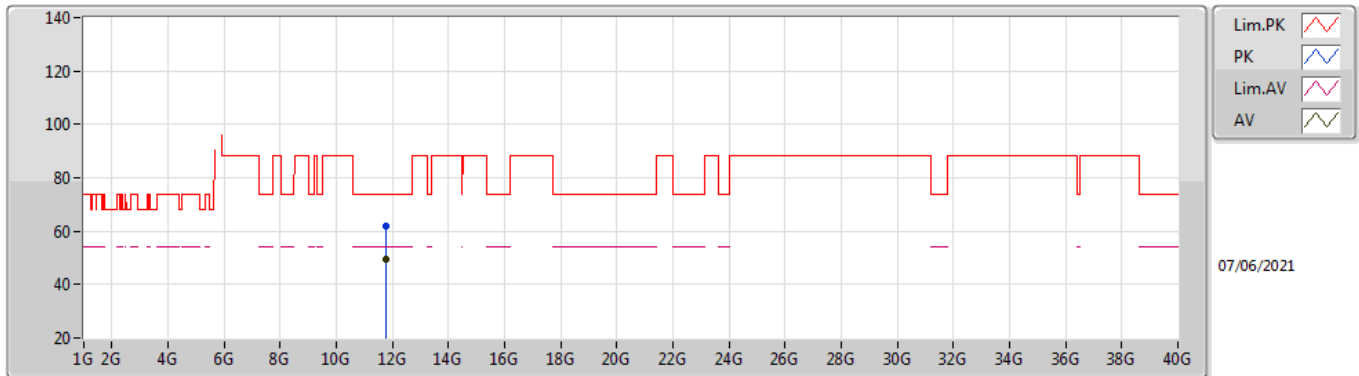


EUT Y_4TX
Setting 104
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.629G | 59.37 | 68.20 | -8.83 | 53.10 | 3 | Horizontal | 60 | 1.48 | - | 34.40 | 6.81 | 34.94 |
| PK | 5.88G | 117.13 | Inf | -Inf | 110.54 | 3 | Horizontal | 60 | 1.48 | - | 34.58 | 6.94 | 34.93 |
| AV | 5.88G | 106.65 | Inf | -Inf | 100.06 | 3 | Horizontal | 60 | 1.48 | - | 34.58 | 6.94 | 34.93 |
| PK | 5.925G | 86.79 | 88.20 | -1.41 | 80.10 | 3 | Horizontal | 60 | 1.48 | - | 34.65 | 6.96 | 34.92 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

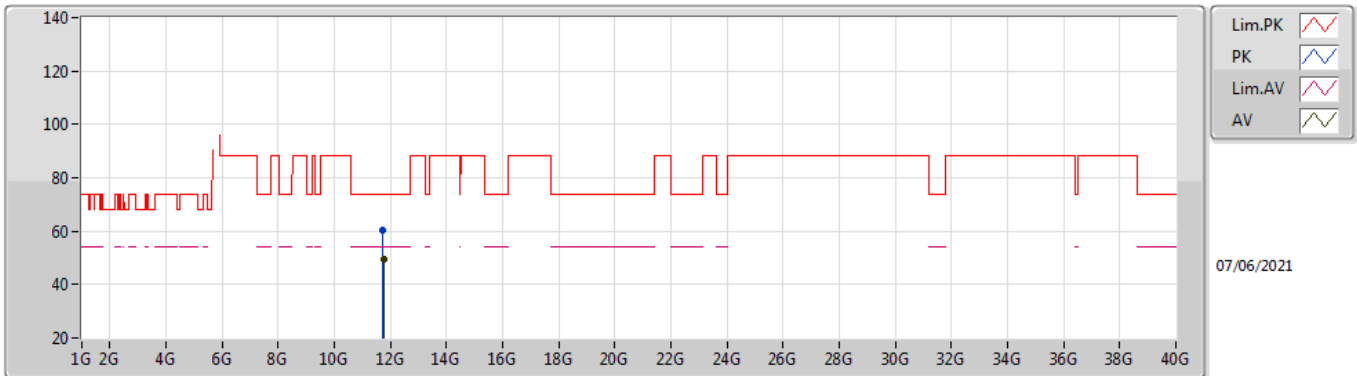


EUT Y_4TX
Setting 104
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 11.74922G | 61.72 | 74.00 | -12.28 | 46.88 | 3 | Vertical | 183 | 1.80 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.74892G | 49.44 | 54.00 | -4.56 | 34.60 | 3 | Vertical | 183 | 1.80 | - | 39.60 | 9.95 | 34.71 |

802.11ax HEW40_Nss1,(MCS0)_4TX

5875MHz_TX

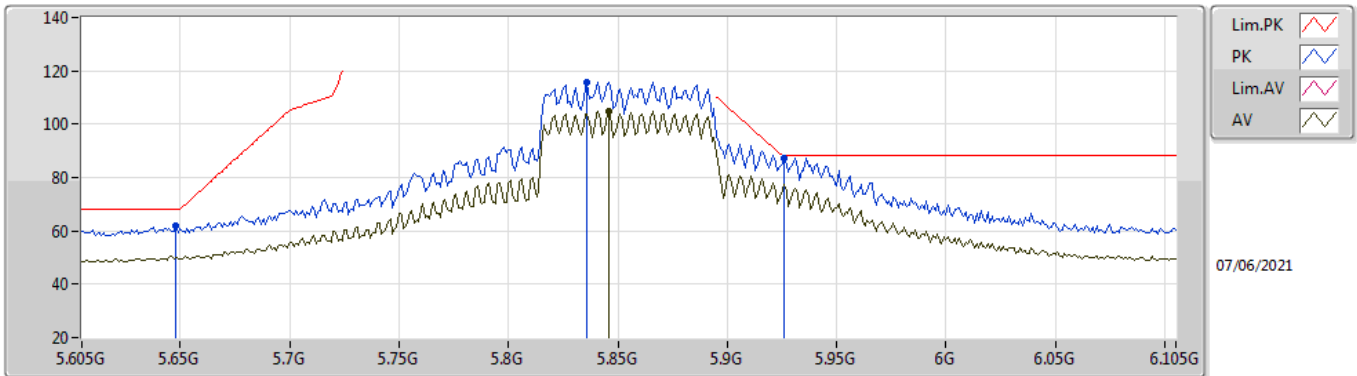


EUT Y_4TX
Setting 104
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.744G | 60.60 | 74.00 | -13.40 | 45.76 | 3 | Horizontal | 206 | 1.80 | - | 39.60 | 9.95 | 34.71 |
| AV | 11.74916G | 49.24 | 54.00 | -4.76 | 34.40 | 3 | Horizontal | 206 | 1.80 | - | 39.60 | 9.95 | 34.71 |

802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

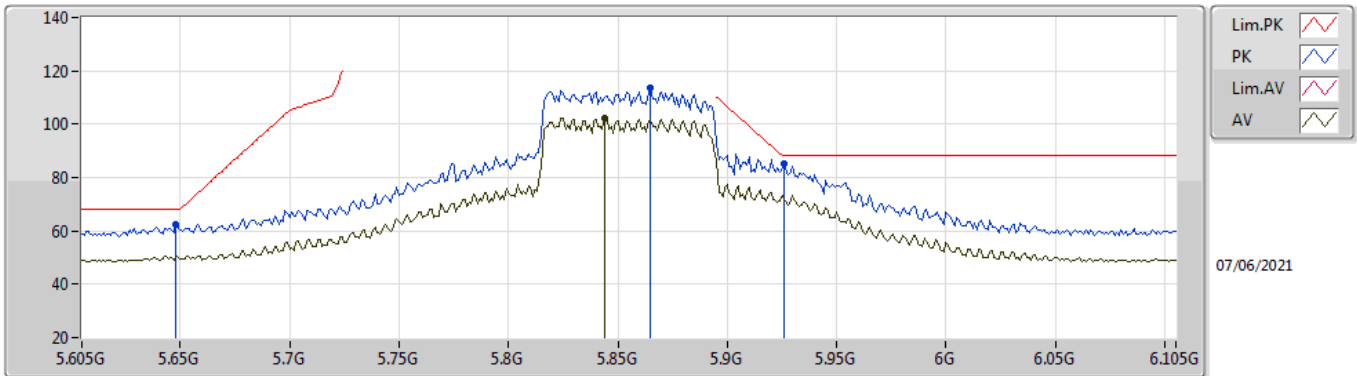


EUT Y_4TX
Setting 102
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.648G | 62.03 | 68.20 | -6.17 | 55.75 | 3 | Vertical | 328 | 1.54 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.836G | 115.87 | Inf | -Inf | 109.48 | 3 | Vertical | 328 | 1.54 | - | 34.40 | 6.92 | 34.93 |
| AV | 5.846G | 104.78 | Inf | -Inf | 98.39 | 3 | Vertical | 328 | 1.54 | - | 34.40 | 6.92 | 34.93 |
| PK | 5.926G | 87.49 | 88.20 | -0.71 | 80.80 | 3 | Vertical | 328 | 1.54 | - | 34.65 | 6.96 | 34.92 |

802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

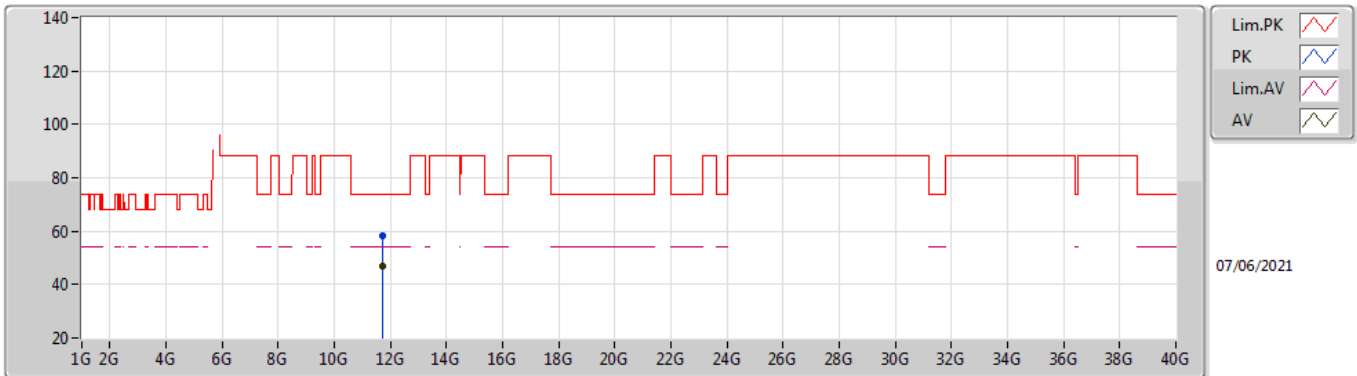


EUT Y_4TX
Setting 102
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.648G | 62.49 | 68.20 | -5.71 | 56.21 | 3 | Horizontal | 123 | 2.98 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.865G | 113.44 | Inf | -Inf | 106.95 | 3 | Horizontal | 123 | 2.98 | - | 34.49 | 6.93 | 34.93 |
| AV | 5.844G | 102.45 | Inf | -Inf | 96.06 | 3 | Horizontal | 123 | 2.98 | - | 34.40 | 6.92 | 34.93 |
| PK | 5.926G | 85.13 | 88.20 | -3.07 | 78.44 | 3 | Horizontal | 123 | 2.98 | - | 34.65 | 6.96 | 34.92 |

802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

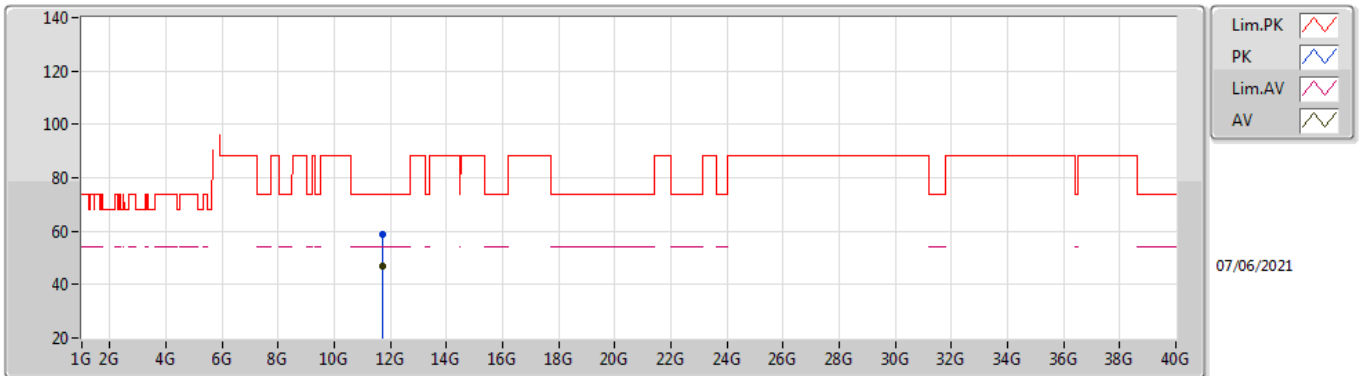


EUT Y_4TX
Setting 102
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|-----------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.69992G | 58.49 | 74.00 | -15.51 | 43.65 | 3 | Vertical | 176 | 1.80 | - | 39.60 | 9.94 | 34.70 |
| AV | 11.70976G | 46.92 | 54.00 | -7.08 | 32.08 | 3 | Vertical | 176 | 1.80 | - | 39.60 | 9.94 | 34.70 |

802.11ax HEW80_Nss1,(MCS0)_4TX

5855MHz_TX

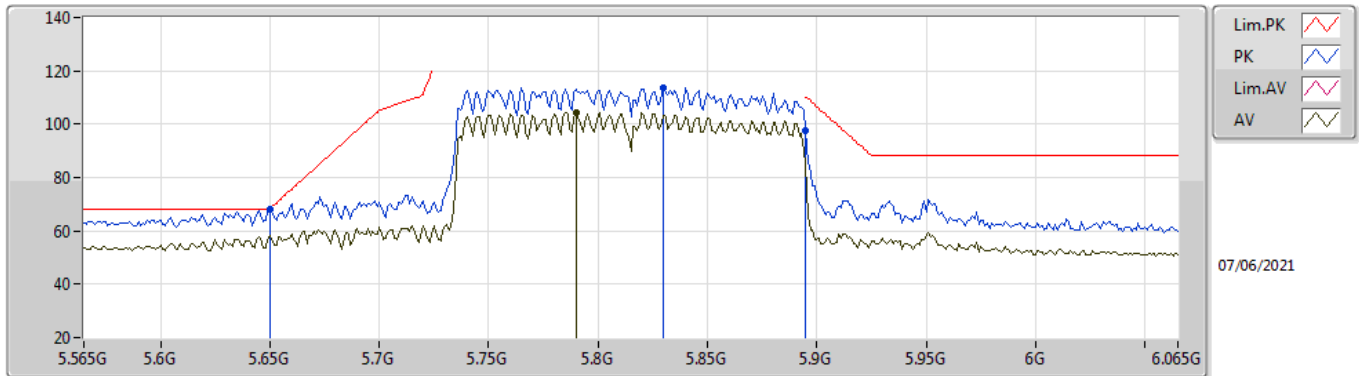


EUT Y_4TX
Setting 102
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.7133G | 58.56 | 74.00 | -15.44 | 43.72 | 3 | Horizontal | 209 | 2.07 | - | 39.60 | 9.94 | 34.70 |
| AV | 11.69896G | 46.81 | 54.00 | -7.19 | 31.97 | 3 | Horizontal | 209 | 2.07 | - | 39.60 | 9.94 | 34.70 |

802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

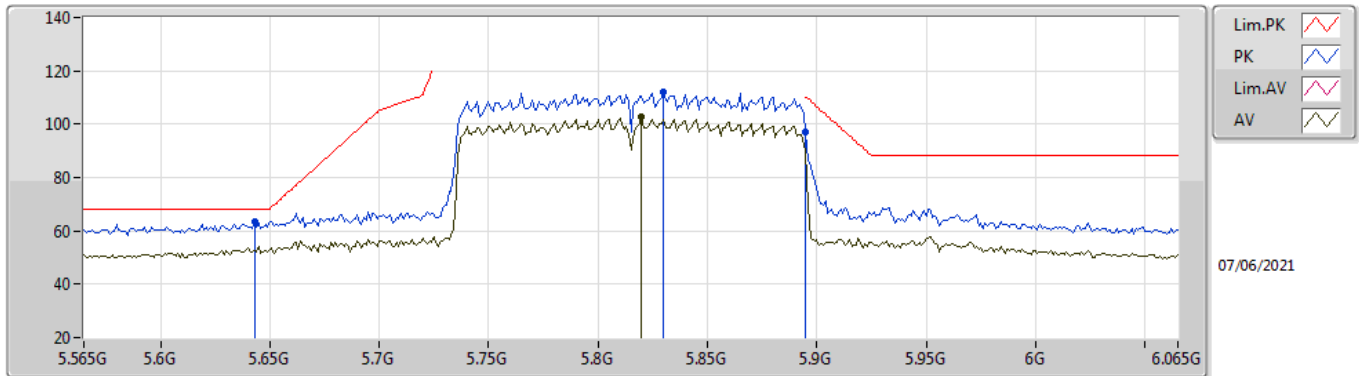


EUT Y_4TX
Setting 66
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 5.65G | 67.93 | 68.20 | -0.27 | 61.64 | 3 | Vertical | 77 | 1.99 | - | 34.40 | 6.83 | 34.94 |
| PK | 5.83G | 113.60 | Inf | -Inf | 107.21 | 3 | Vertical | 77 | 1.99 | - | 34.40 | 6.92 | 34.93 |
| AV | 5.79G | 104.56 | Inf | -Inf | 98.19 | 3 | Vertical | 77 | 1.99 | - | 34.40 | 6.90 | 34.93 |
| PK | 5.895G | 97.39 | 110.20 | -12.81 | 90.70 | 3 | Vertical | 77 | 1.99 | - | 34.67 | 6.95 | 34.93 |

802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

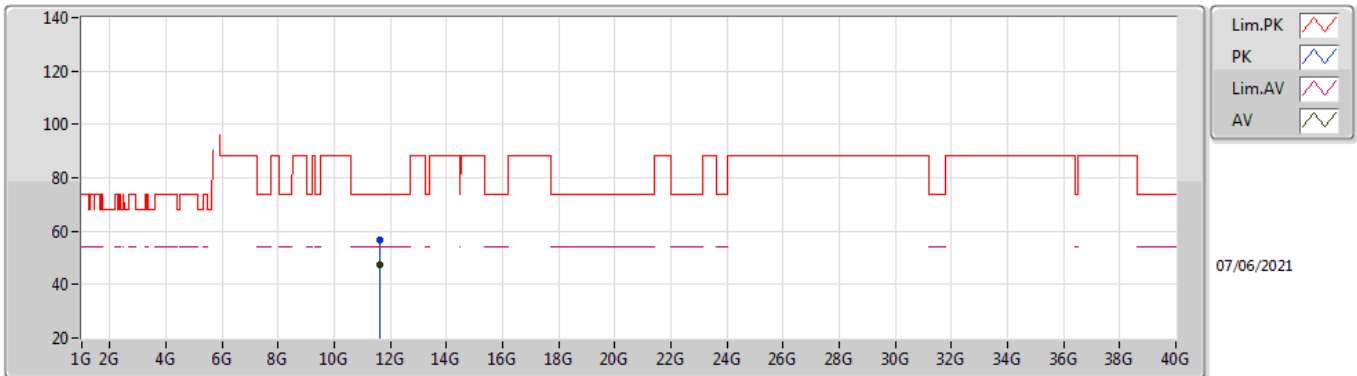


EUT Y_4TX
Setting 66
03-E-K-5-10

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|------------|-------------|------------|---------|---------|---------|---------|
| PK | 5.643G | 63.41 | 68.20 | -4.79 | 57.13 | 3 | Horizontal | 63 | 1.74 | - | 34.40 | 6.82 | 34.94 |
| PK | 5.83G | 112.26 | Inf | -Inf | 105.87 | 3 | Horizontal | 63 | 1.74 | - | 34.40 | 6.92 | 34.93 |
| AV | 5.82G | 102.63 | Inf | -Inf | 96.25 | 3 | Horizontal | 63 | 1.74 | - | 34.40 | 6.91 | 34.93 |
| PK | 5.895G | 97.04 | 110.20 | -13.16 | 90.35 | 3 | Horizontal | 63 | 1.74 | - | 34.67 | 6.95 | 34.93 |

802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX

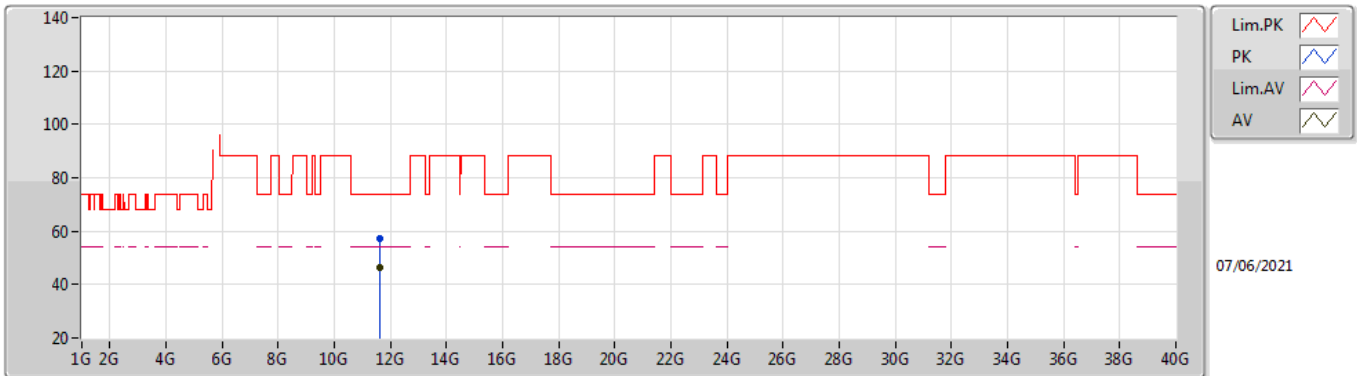


EUT Y_4TX
Setting 66
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|-----------|----------------|----------------|-------------|------------|----------|-----------|-------------|------------|---------|---------|---------|---------|
| PK | 11.6298G | 56.49 | 74.00 | -17.51 | 41.64 | 3 | Vertical | 170 | 1.75 | - | 39.60 | 9.93 | 34.68 |
| AV | 11.62987G | 47.20 | 54.00 | -6.80 | 32.35 | 3 | Vertical | 170 | 1.75 | - | 39.60 | 9.93 | 34.68 |

802.11ax HEW160_Nss1,(MCS0)_4TX

5815MHz_TX



EUT Y_4TX
Setting 66
03-E-K-5

| Type | Freq (Hz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw (dBuV) | Dist (m) | Condition | Azimuth (°) | Height (m) | Comment | AF (dB) | CL (dB) | PA (dB) |
|------|--------------|-------------------|-------------------|----------------|---------------|-------------|------------|----------------|---------------|---------|------------|------------|------------|
| PK | 11.63032G | 57.03 | 74.00 | -16.97 | 42.18 | 3 | Horizontal | 144 | 2.42 | - | 39.60 | 9.93 | 34.68 |
| AV | 11.62984G | 46.46 | 54.00 | -7.54 | 31.61 | 3 | Horizontal | 144 | 2.42 | - | 39.60 | 9.93 | 34.68 |