



# RADIO TEST REPORT

FCC ID : Z8H89FT0077  
Equipment : XV2-22H Wallplate Wi-Fi 6 Access Point  
Brand Name : Cambium Networks  
Model Name : XV2-22H  
Applicant : Cambium Networks Inc.  
3800 Golf Road, Suite 360 Rolling Meadows, IL  
60008, USA  
Manufacturer : Cambium Networks, Ltd.  
Ashburton, TQ13 7UP, UK  
Standard : 47 CFR FCC Part 15.407

The product was received on Nov. 11, 2022, and testing was started from Nov. 11, 2022 and completed on Nov. 14, 2022. 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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### 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 EIRP Output Power	PASS	-
3.3	15.407(a)	EIRP Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

**Declaration of Conformity:**

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

**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: Penny Kao**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5895	a, n (HT20), ac (VHT20), ax (HEW20)	5845-5885	169-177[3]
5725-5895	n (HT40), ac (VHT40), ax (HEW40)	5835-5875	167-175[2]
5725-5895	ac (VHT80), ax (HEW80)	5855	171[1]
5725-5895	ac (VHT160), ax (HEW160)	5815	163[1]

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11a	20	2TX
5.725-5.895GHz	802.11n HT20	20	2TX
5.725-5.895GHz	802.11n HT20-BF	20	2TX
5.725-5.895GHz	802.11ac VHT20	20	2TX
5.725-5.895GHz	802.11ac VHT20-BF	20	2TX
5.725-5.895GHz	802.11ax HEW20	20	2TX
5.725-5.895GHz	802.11ax HEW20-BF	20	2TX
5.725-5.895GHz	802.11n HT40	40	2TX
5.725-5.895GHz	802.11n HT40-BF	40	2TX
5.725-5.895GHz	802.11ac VHT40	40	2TX
5.725-5.895GHz	802.11ac VHT40-BF	40	2TX
5.725-5.895GHz	802.11ax HEW40	40	2TX
5.725-5.895GHz	802.11ax HEW40-BF	40	2TX
5.725-5.895GHz	802.11ac VHT80	80	2TX
5.725-5.895GHz	802.11ac VHT80-BF	80	2TX
5.725-5.895GHz	802.11ax HEW80	80	2TX
5.725-5.895GHz	802.11ax HEW80-BF	80	2TX
5.725-5.895GHz	802.11ac VHT160	160	2TX
5.725-5.895GHz	802.11ac VHT160-BF	160	2TX
5.725-5.895GHz	802.11ax HEW160	160	2TX
5.725-5.895GHz	802.11ax HEW160-BF	160	2TX



Note:

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- 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)
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee					
1	1	-	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	Note1
2	2	-	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
3	-	2	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
4	-	1	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
5	-	-	1	Gemtek	WRTQ-372AX	Dipole	I-Pex	

Note1: Antenna Gain information

Ant.	Port			Antenna Gain (dBi)				
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee	WLAN 2.4GHz	WLAN 5GHz			Bluetooth / Zigbee
					UNII 1	UNII 3	UNII 4	
1	1	-	-	4.47	-	-	-	-
2	2	-	-	4.42	-	-	-	-
3	-	2	-	-	5.56	5.48	5.48	-
4	-	1	-	-	5.45	5.51	5.51	-
5	-	-	1	-	-	-	-	5.18

Note 2: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

g<sub>j,k</sub> =  $(N_{SS1}(g1,1) + N_{SS1}(g1,2))$ <sup>2</sup>

DG =  $10 \log[(N_{SS1}(g1,1) + N_{SS1}(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$

Where ;

2.4G G1 = 4.47 dBi; G2 = 4.42 dBi ; DG = 7.46 dBi

5G UNII1 G1 = 5.56 dBi; G2 = 5.45 dBi; DG = 8.52 dBi

5G UNII3 G1 = 5.48 dBi; G2 = 5.51 dBi; DG = 8.51 dBi

5G UNII4 G1 = 5.48 dBi; G2 = 5.51 dBi; DG = 8.51 dBi



Note 3: The above information was declared by manufacturer.

Note 4: The EUT has five antennas.

**<WLAN 2.4GHz Function>**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**<WLAN 5GHz Function>**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**<Bluetooth/Zigbee function>**

**Bluetooth/Zigbee (1TX/1RX):**

Port 1 can be used as transmitting/receiving antenna.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.932	0.31	1.978m	1k
802.11ax HEW20	0.902	0.45	5.455m	300
802.11ax HEW40	0.9	0.46	5.453m	300
802.11ax HEW80	0.901	0.45	5.453m	300
802.11ax HEW160	0.9	0.46	5.455m	300

Note:

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From PoE			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz.			
<b>Function</b>	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
<b>Device Type</b>	<input checked="" type="checkbox"/>	Indoor Access Point	<input checked="" type="checkbox"/>	Subordinate
	<input type="checkbox"/>	Indoor Client		
<b>Channel Puncturing Function</b>	<input type="checkbox"/>	Supported	<input checked="" type="checkbox"/>	Unsupported
<b>Support RU</b>	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
<b>Test Software Version</b>	QSPR Version 5.0-00199			

Note: The above information was declared by manufacturer.



**1.1.5 Table for EUT supports functions**

Function
AP
Bridge
Mesh

Note 1: After evaluating, AP Mode was selected to test and record in the report.

Note 2: The above information was declared by manufacturer.

**1.1.6 Table for Permissive Change**

This product is an extension of original one reported under Sporton project number: FR270109AB.

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

Modifications	Performance Checking
1. Adding UNII 4 (5725~5895 MHz) for this device.	1. Emission Bandwidth.
2. Adding 160MHz in UNII 4 for this device.	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 291074 D02 v01

### 1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) 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	TH01-CB	Serway Lee	22.9~24.2 / 56~61	Nov. 14, 2022
Radiated	03CH03-CB	Black Lu	23.8-24.9 / 55-58	Nov. 11, 2022

### 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)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5845MHz	23
5865MHz	19
5885MHz	19
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5845MHz	23
5885MHz	20
5865MHz	20
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5835MHz	21
5875MHz	20
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5855MHz	19
802.11ax HEW160_Nss1,(MCS0)_2TX	-
5815MHz	15.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5845MHz	23
5885MHz	20
5865MHz	20
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5835MHz	21
5875MHz	20
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5855MHz	19
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-
5815MHz	15.5

Note:

- ◆ Evaluated HEW20/HEW40/HEW80/HEW160 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- ◆ The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items 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	
<b>Tests Item</b>	Emission Bandwidth Maximum EIRP Output Power EIRP Power Spectral Density
<b>Test Condition</b>	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Unwanted Emissions
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &gt; 1GHz</b>	CTX
	After evaluating, the worst case was found at Y axis (Bandedge) and Z axis (Harmonic). Thus, the measurement will follow this same test configuration.
1	EUT in Y axis (Bandedge)
2	EUT in Z axis (Harmonic)

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + Zigbee
Refer to Sporton Test Report No.: FA270109-03 for Co-location RF Exposure Evaluation.	

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

The PoE information as below:

Support Unit	Brand	Model Name
PoE	Cambium	NET-P30-56IN

### 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



## 2.4 Accessories

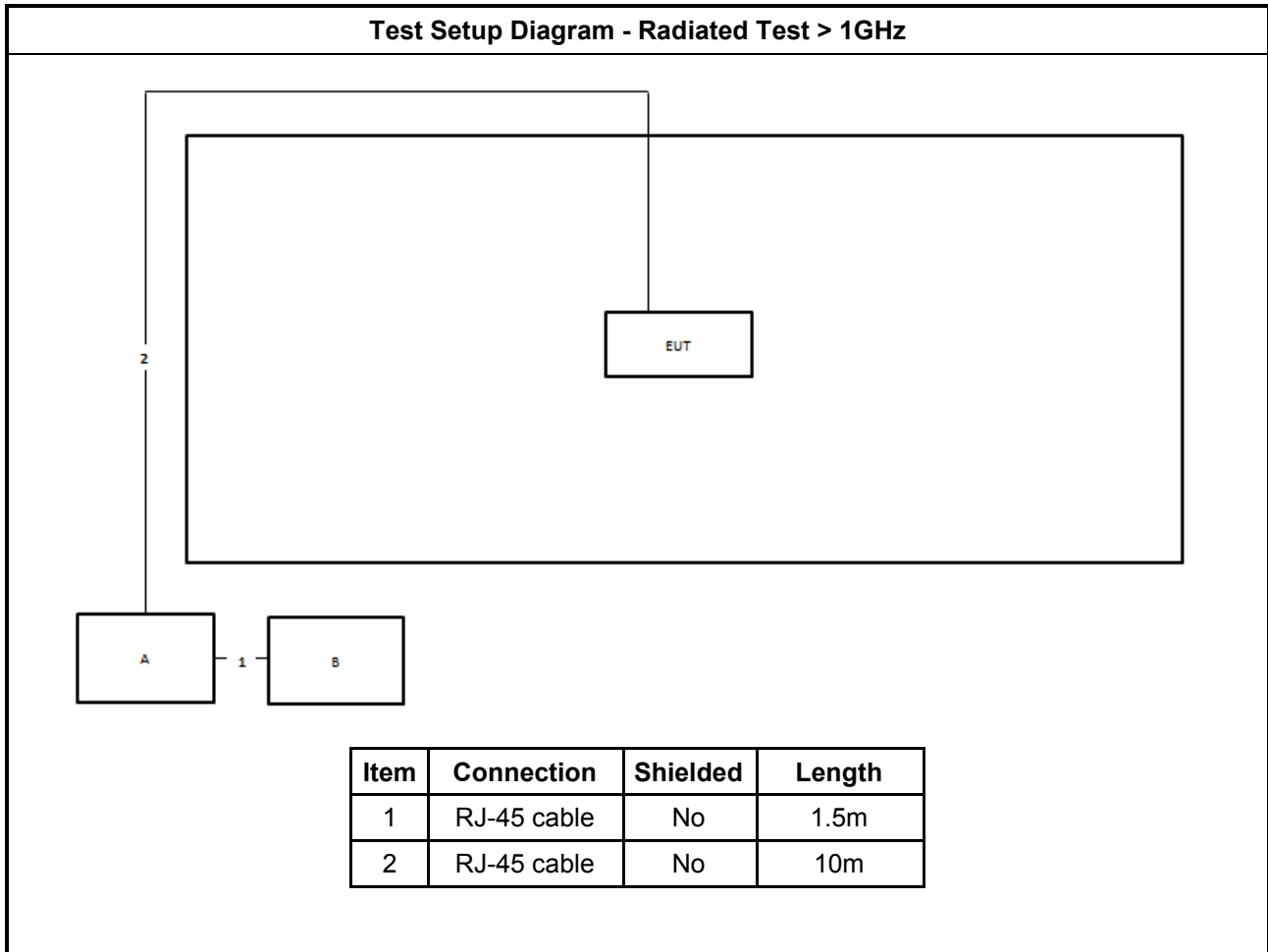
Others
RJ-45 cable*1: Non-shielded, 0.1m
Wall-mounted rack*1

## 2.5 Support Equipment

For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	NET-P30-56IN	N/A
B	Notebook	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	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/>	For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth $\geq$ 500kHz.

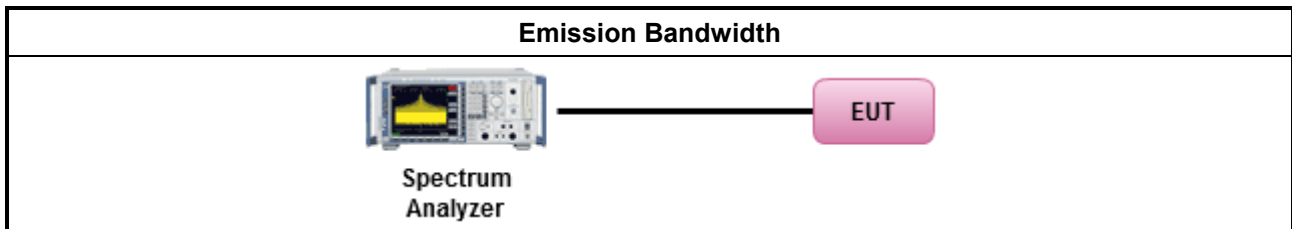
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, 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 EIRP Output Power

#### 3.2.1 Limit

Maximum EIRP Output Power Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.85-5.895 GHz band:	
<input type="checkbox"/>	Indoor AP & subordinate device < 36 dBm
<input type="checkbox"/>	Client device < 30 dBm

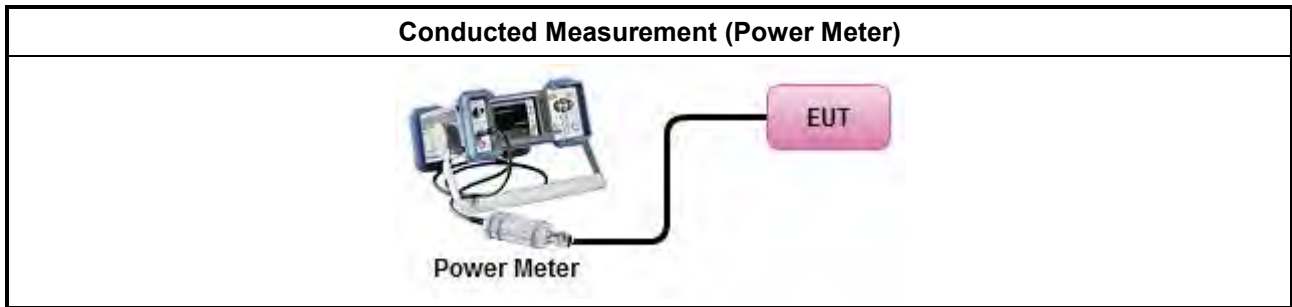
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method	
Average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, 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 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/> For conducted measurement.	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>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.</li> <li>If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>
<input type="checkbox"/> For radiated measurement.	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
<input type="checkbox"/>	Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum EIRP Output Power

Refer as Appendix B





### 3.3 EIRP Power Spectral Density

#### 3.3.1 Limit

EIRP Power Spectral Density Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.85-5.895 GHz band:	
<input type="checkbox"/>	Indoor AP & subordinate device < 20dBm/MHz
<input type="checkbox"/>	Client device < 14dBm/MHz

#### 3.3.2 Measuring Instruments

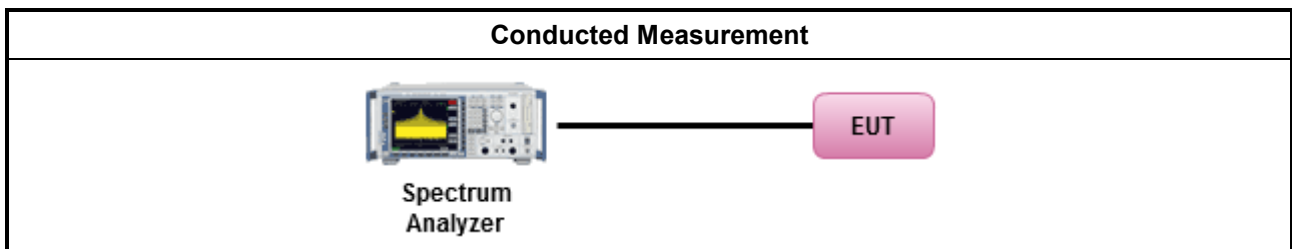
Refer a test equipment and calibration data table in this test report.

#### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>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:</li> </ul>	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, 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 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, 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 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/> For conducted measurement.	
<ul style="list-style-type: none"> <li>If the EUT supports multiple transmit chains using options given below:</li> </ul>	
<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

Test Method	
	<p>emission limits,</p> <p><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.</p> <p>▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods:  <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = PPSD_{total} + DG</math></p>
	<input type="checkbox"/> For radiated measurement.
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

**3.3.4 Test Setup**



**3.3.5 Test Result of EIRP 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 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 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. (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.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall



be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

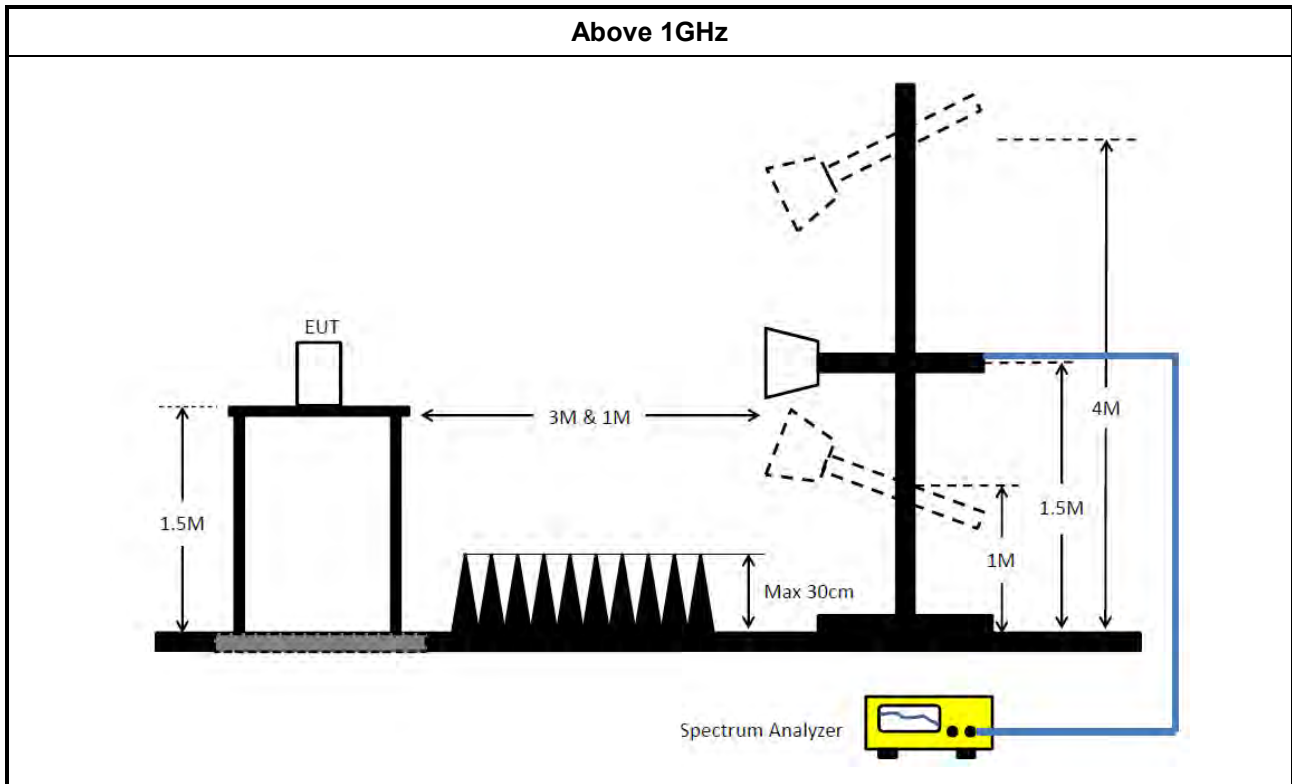
**3.4.2 Measuring Instruments**

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"> <li>▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).</li> </ul>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.</li> </ul>
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, 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 D02, 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"> <li>▪ For radiated measurement.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>
<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>	

### 3.4.4 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 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS · Lindgren	3115	6821	750MHz~18GHz z	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz ~26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz ~26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)



<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Characteristics</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>	<b>Remark</b>
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.895GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.29M	37.112M	37M1D1D	15.09M	28.483M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.81M	40.848M	40M8D1D	11.28M	18.901M
802.11ax HEW40_Nss1,(MCS0)_2TX	35.34M	69.034M	69MOD1D	27.48M	37.879M
802.11ax HEW80_Nss1,(MCS0)_2TX	71.88M	78.067M	78M1D1D	61.32M	76.902M
802.11ax HEW160_Nss1,(MCS0)_2TX	113.52M	155.215M	155MD1D	83.28M	155.029M
5.85-5.895GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	15M	16.338M	16M3D1D	12.48M	16.252M
802.11ax HEW20_Nss1,(MCS0)_2TX	16.8M	19.166M	19M2D1D	12.54M	18.893M

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)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5845MHz	Pass	500k	16.29M	37.112M	15.09M	28.483M
5865MHz	Pass	500k	13.8M	16.311M	14.43M	16.252M
5885MHz	Pass	500k	12.48M	16.338M	15M	16.258M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5845MHz	Pass	500k	18.81M	40.848M	17.07M	28.18M
5885MHz	Pass	500k	11.28M	19.324M	16.74M	18.901M
5865MHz	Pass	500k	12.54M	19.166M	16.8M	18.893M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5835MHz	Pass	500k	33.78M	69.034M	27.48M	41.324M
5875MHz	Pass	500k	29.94M	39.089M	35.34M	37.879M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5855MHz	Pass	500k	61.32M	78.067M	71.88M	76.902M
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5815MHz	Pass	500k	113.52M	155.215M	83.28M	155.029M

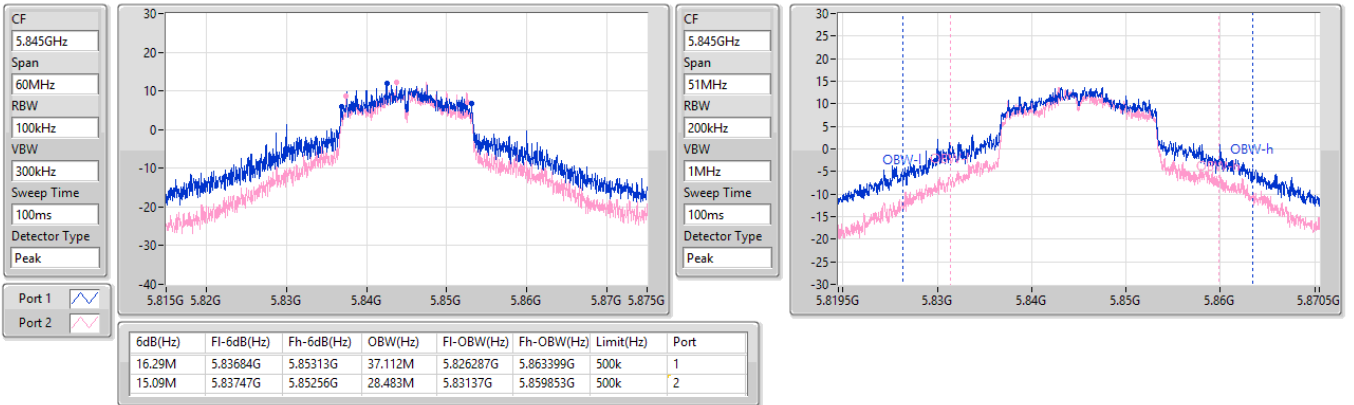
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
 Port X-OBW = Port X 99% occupied bandwidth

5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5845MHz

14/11/2022

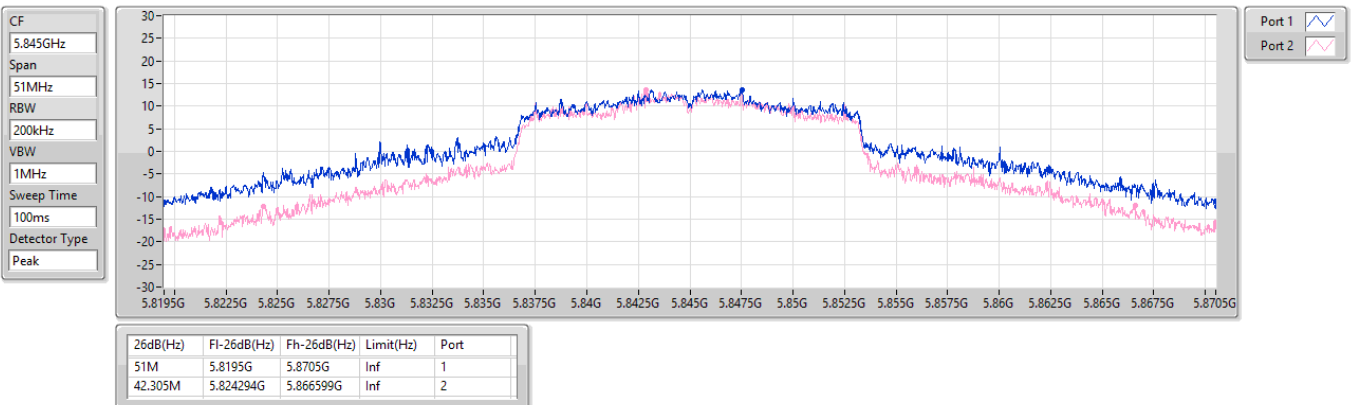


5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5845MHz

14/11/2022

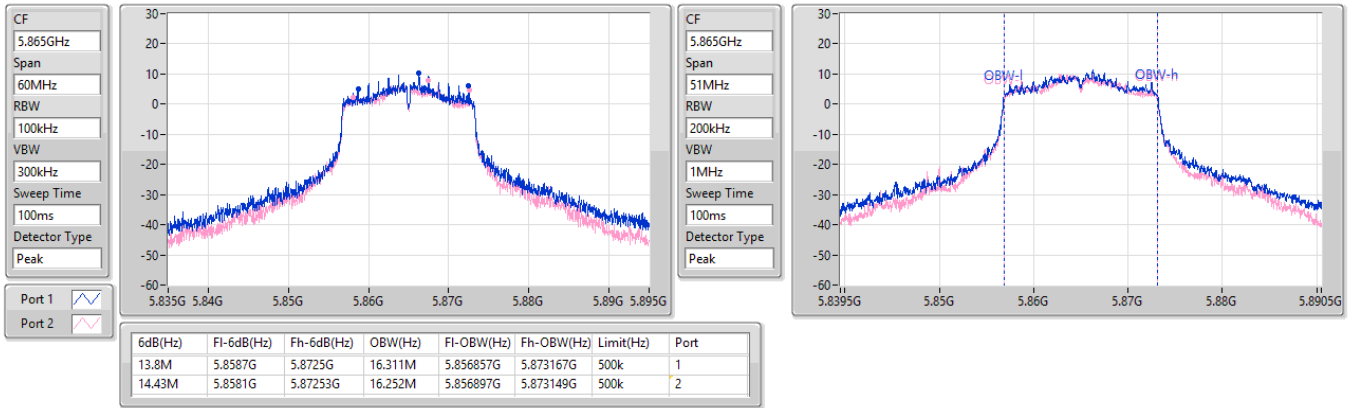


5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5865MHz

14/11/2022

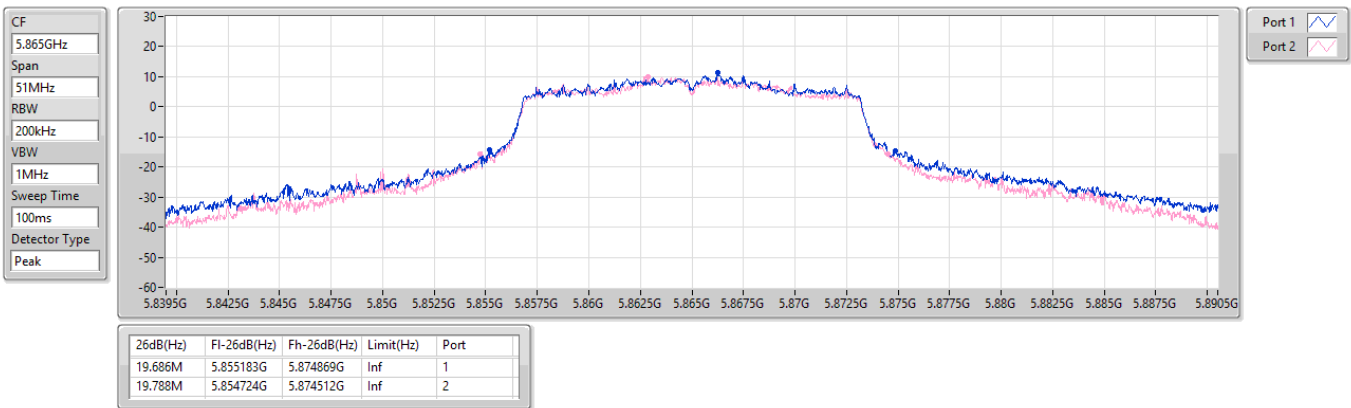


5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5865MHz

14/11/2022

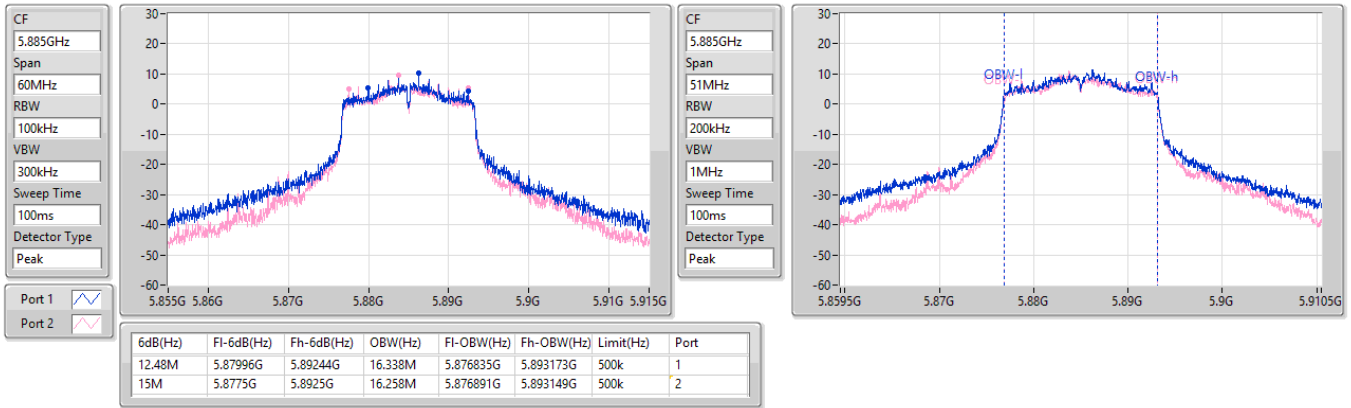


5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5885MHz

14/11/2022

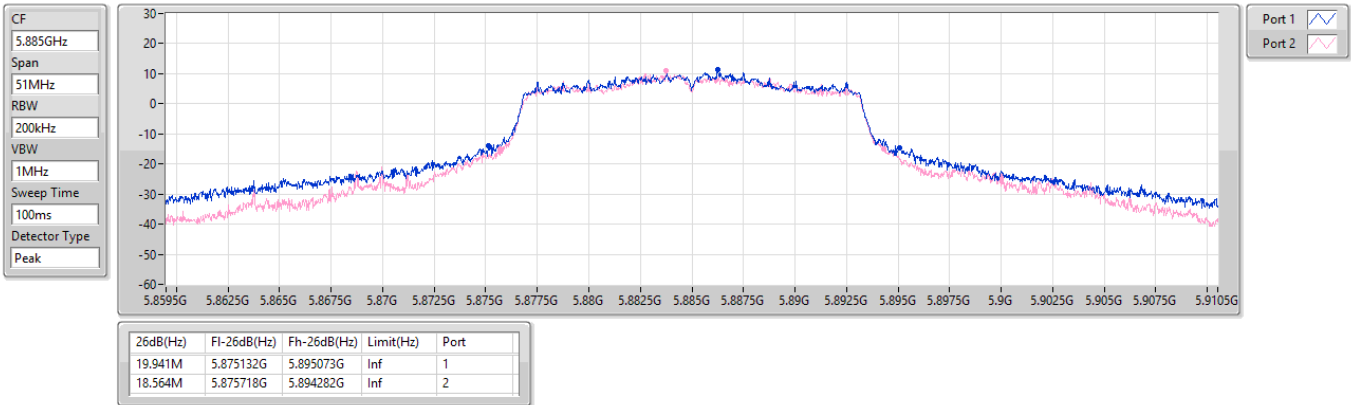


5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5885MHz

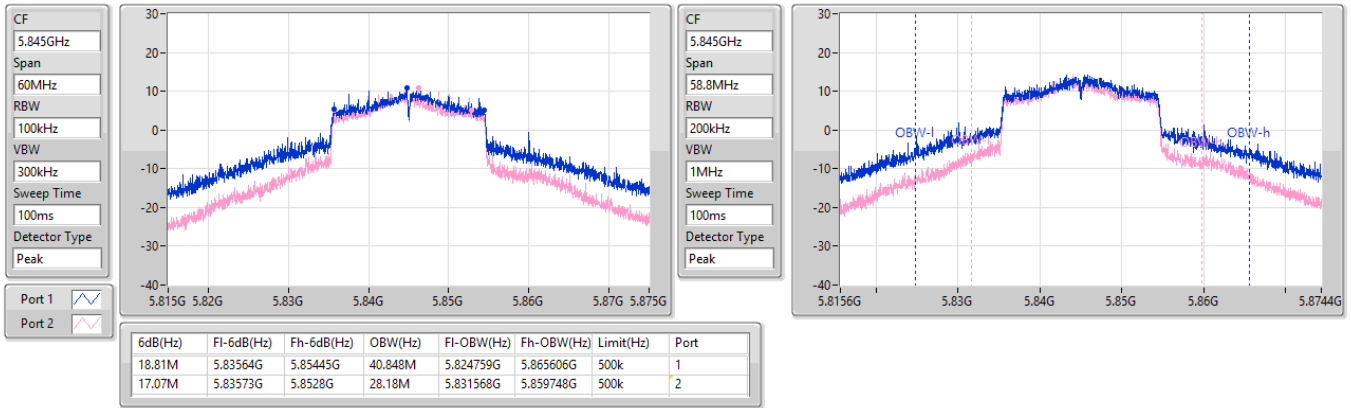
14/11/2022



5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX  
5845MHz

EBW

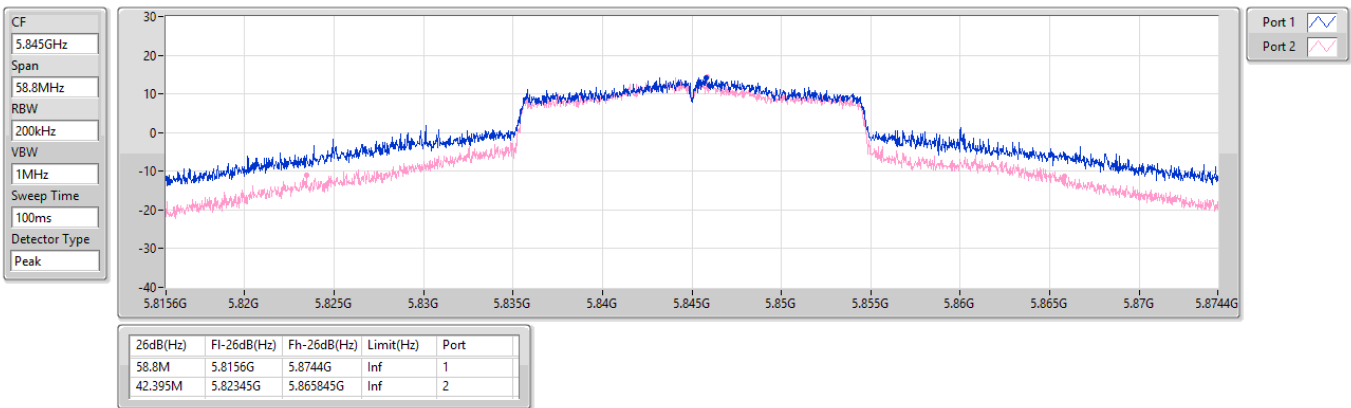
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5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX  
5845MHz

EBW

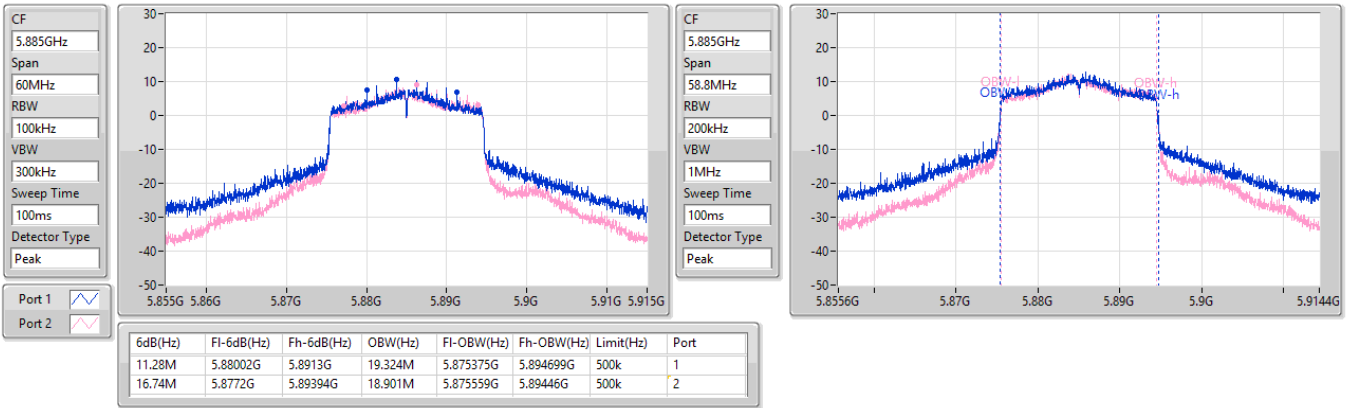
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5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX  
5885MHz

EBW

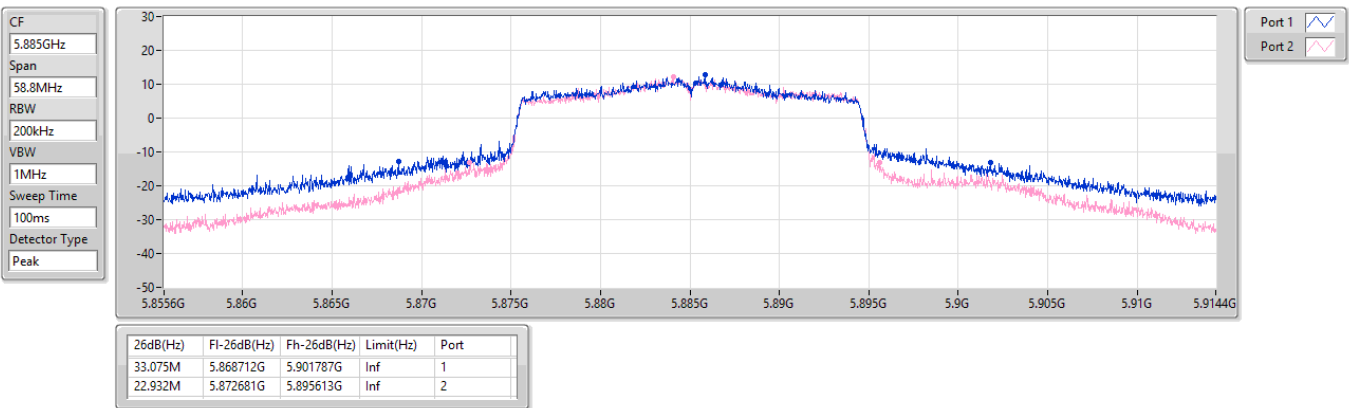
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5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX  
5885MHz

EBW

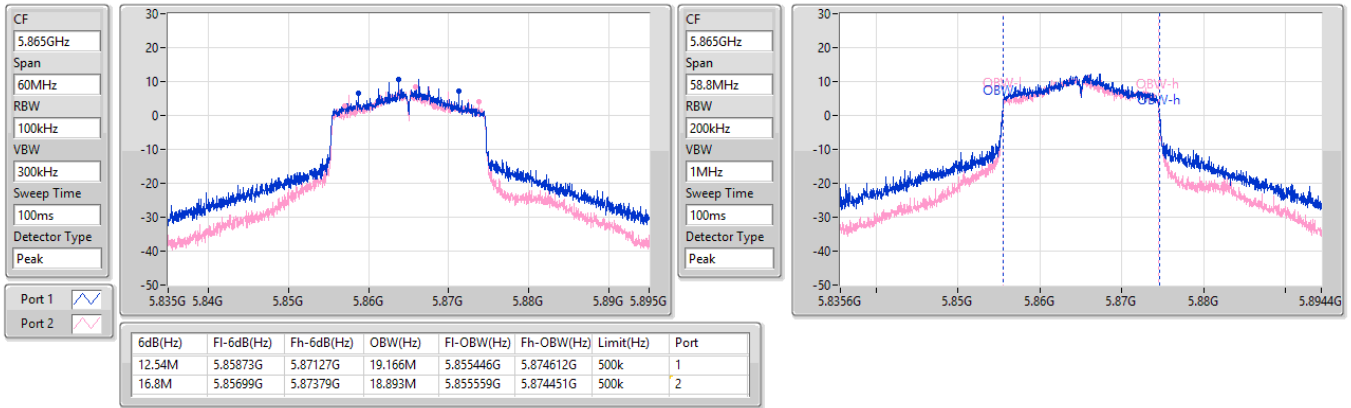
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5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX  
5865MHz

EBW

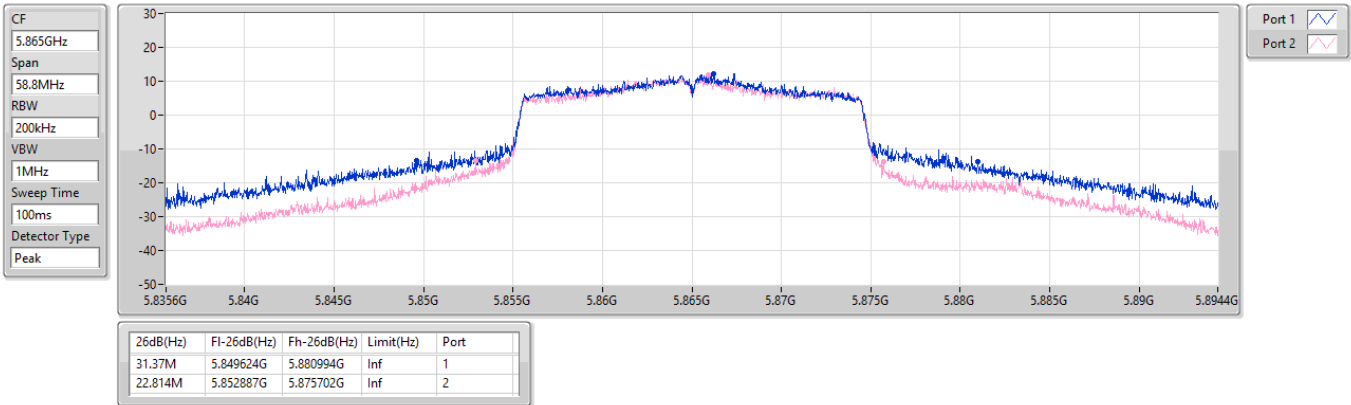
14/11/2022



5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX  
5865MHz

EBW

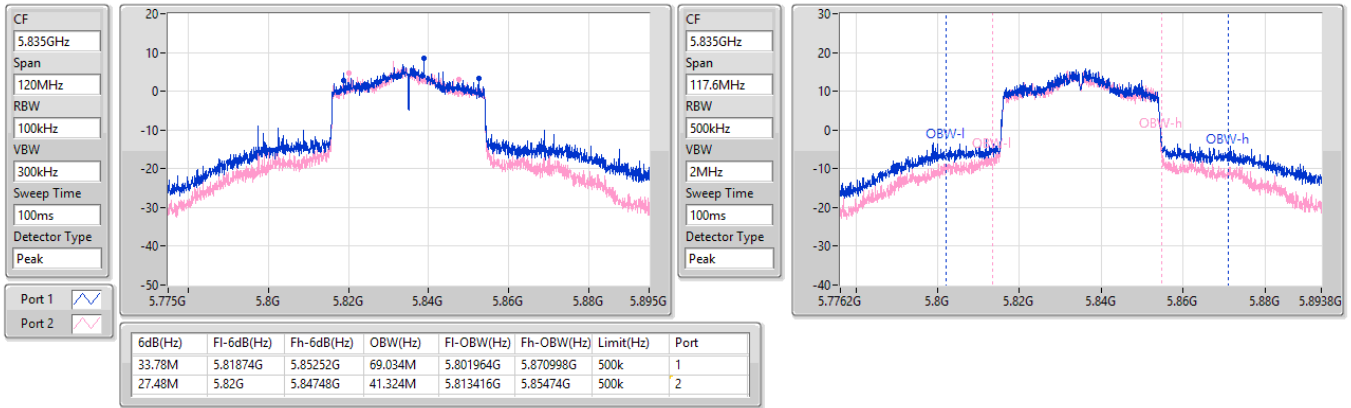
14/11/2022



5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX  
5835MHz

EBW

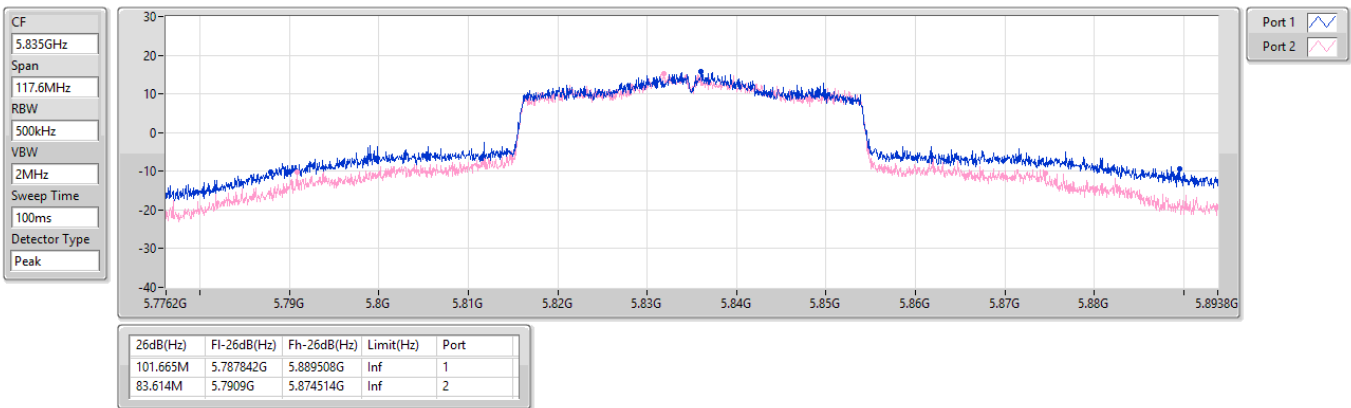
14/11/2022



5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX  
5835MHz

EBW

14/11/2022

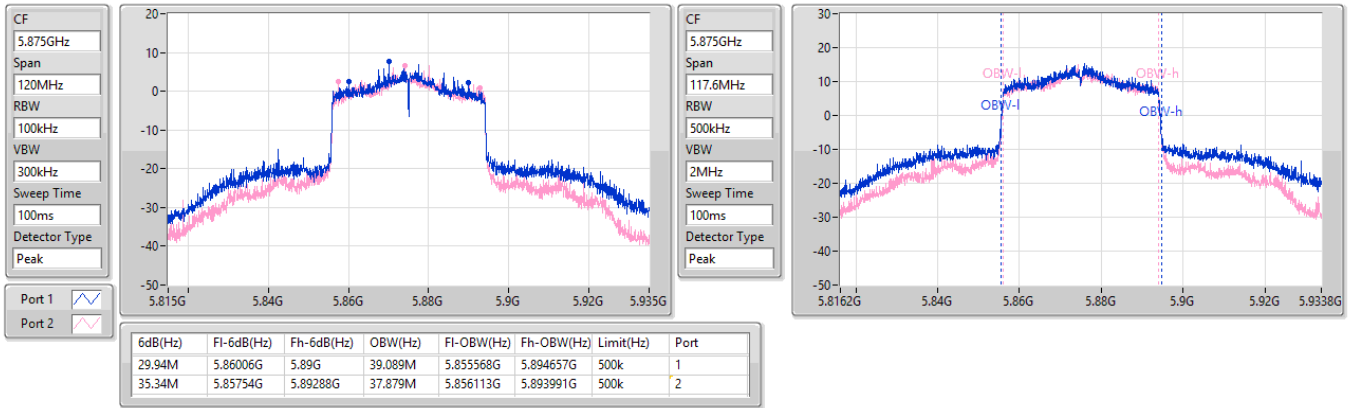




5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX  
5875MHz

EBW

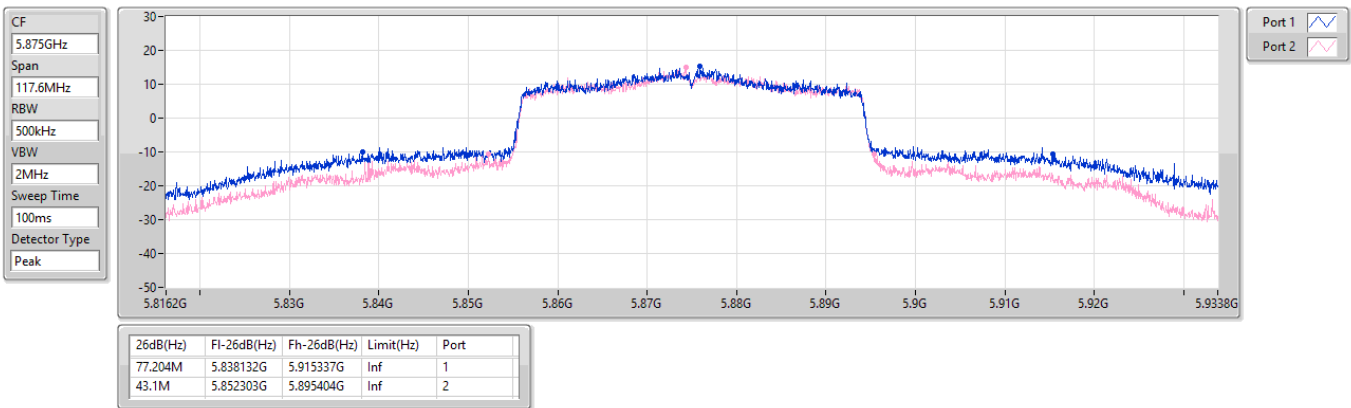
14/11/2022



5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX  
5875MHz

EBW

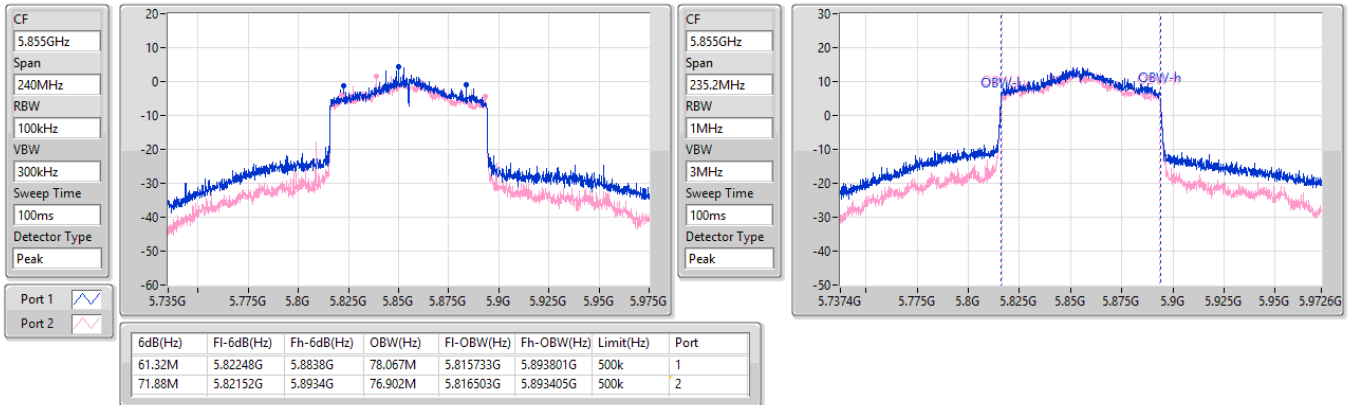
14/11/2022



5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX  
5855MHz

EBW

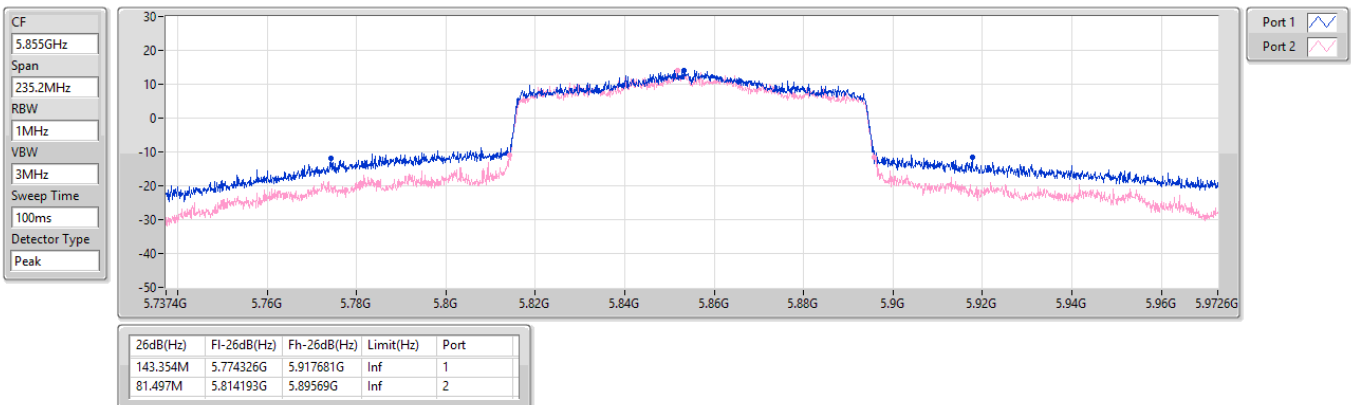
14/11/2022



5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX  
5855MHz

EBW

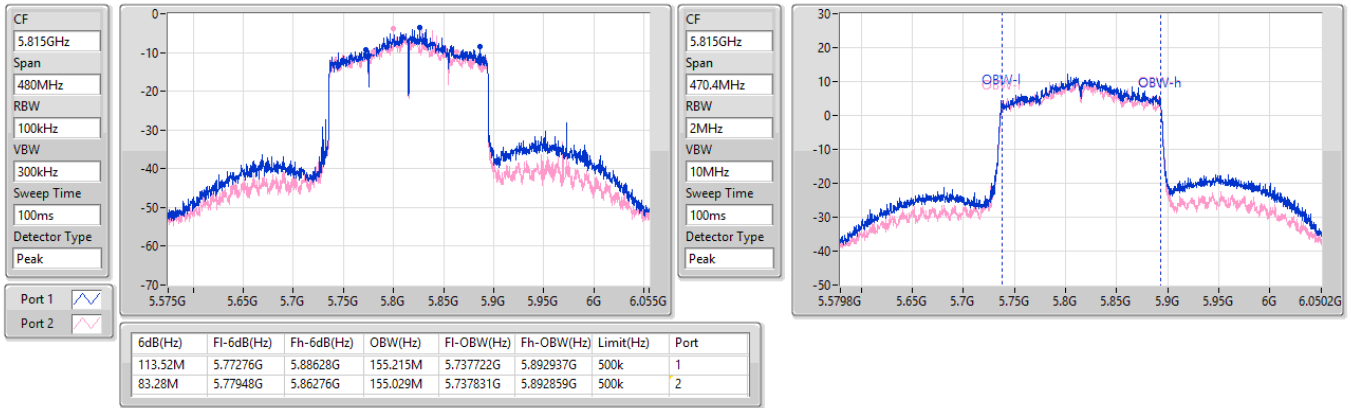
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5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX  
5815MHz

EBW

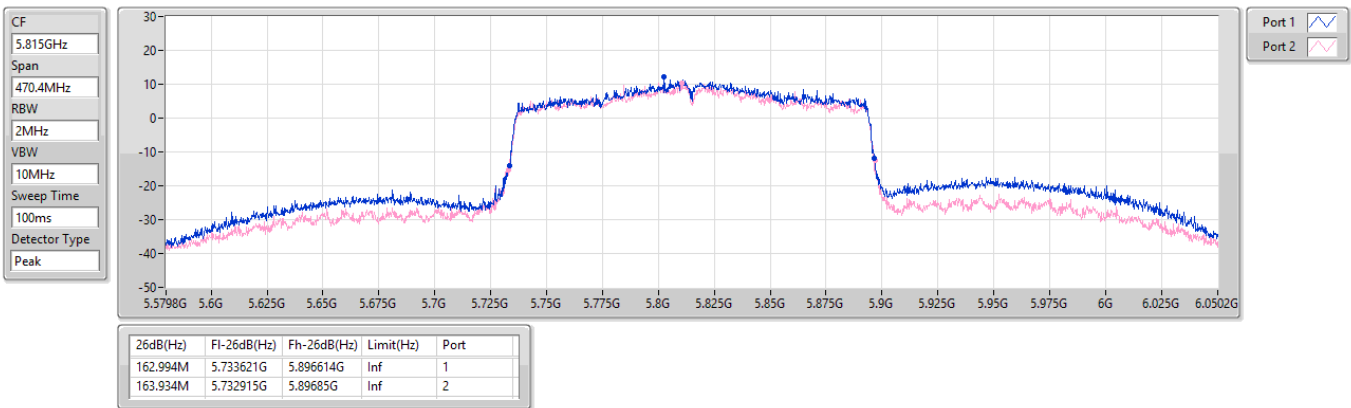
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5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX  
5815MHz

EBW

14/11/2022





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.19	0.33037	30.70	1.17490
802.11ax HEW20_Nss1,(MCS0)_2TX	24.85	0.30549	30.36	1.08643
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.85	0.30549	33.36	2.16770
802.11ax HEW40_Nss1,(MCS0)_2TX	23.92	0.24660	29.43	0.87700
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.92	0.24660	32.43	1.74985
802.11ax HEW80_Nss1,(MCS0)_2TX	21.59	0.14421	27.10	0.51286
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	21.59	0.14421	30.10	1.02329
802.11ax HEW160_Nss1,(MCS0)_2TX	18.44	0.06982	23.95	0.24831
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	18.44	0.06982	26.95	0.49545
5.85-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.76	0.14997	27.27	0.53333
802.11ax HEW20_Nss1,(MCS0)_2TX	22.46	0.17620	27.97	0.62661
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.46	0.17620	30.97	1.25026



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5845MHz	Pass	5.51	22.58	21.74	25.19	30.00	30.70	36.00
5865MHz	Pass	5.51	19.09	18.38	21.76	Inf	27.27	36.00
5885MHz	Pass	5.51	19.08	18.36	21.75	Inf	27.26	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5845MHz	Pass	5.51	22.28	21.34	24.85	30.00	30.36	36.00
5885MHz	Pass	5.51	19.87	19.59	22.74	Inf	28.25	36.00
5865MHz	Pass	5.51	19.71	19.18	22.46	Inf	27.97	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5835MHz	Pass	5.51	21.12	20.69	23.92	30.00	29.43	36.00
5875MHz	Pass	5.51	20.09	19.6	22.86	Inf	28.37	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5855MHz	Pass	5.51	18.98	18.14	21.59	30.00	27.10	36.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5815MHz	Pass	5.51	15.94	14.84	18.44	30.00	23.95	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5845MHz	Pass	8.51	22.28	21.34	24.85	30.00	33.36	36.00
5885MHz	Pass	8.51	19.87	19.59	22.74	Inf	31.25	36.00
5865MHz	Pass	8.51	19.71	19.18	22.46	Inf	30.97	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5835MHz	Pass	8.51	21.12	20.69	23.92	30.00	32.43	36.00
5875MHz	Pass	8.51	20.09	19.6	22.86	Inf	31.37	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5855MHz	Pass	8.51	18.98	18.14	21.59	30.00	30.10	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5815MHz	Pass	8.51	15.94	14.84	18.44	30.00	26.95	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)_2TX	10.44	18.95
802.11ax HEW20_Nss1,(MCS0)_2TX	11.36	19.87
802.11ax HEW40_Nss1,(MCS0)_2TX	8.95	17.46
802.11ax HEW80_Nss1,(MCS0)_2TX	4.90	13.41
802.11ax HEW160_Nss1,(MCS0)_2TX	-4.85	3.66
5.85-5.895GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.47	19.98
802.11ax HEW20_Nss1,(MCS0)_2TX	11.04	19.55

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)	PD (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	8.51	7.84	7.15	10.44	18.95	20.00
5865MHz	Pass	8.51	8.27	8.15	11.11	19.62	20.00
5885MHz	Pass	8.51	8.86	8.47	11.47	19.98	20.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	8.51	7.45	6.51	9.97	18.48	20.00
5885MHz	Pass	8.51	8.54	8.51	11.36	19.87	20.00
5865MHz	Pass	8.51	8.37	8.05	11.04	19.55	20.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5835MHz	Pass	8.51	2.09	2.02	5.05	13.56	20.00
5875MHz	Pass	8.51	6.07	5.98	8.95	17.46	20.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5855MHz	Pass	8.51	2.04	1.94	4.90	13.41	20.00
802.11ax HEW160_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5815MHz	Pass	8.51	-7.23	-8.38	-4.85	3.66	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;

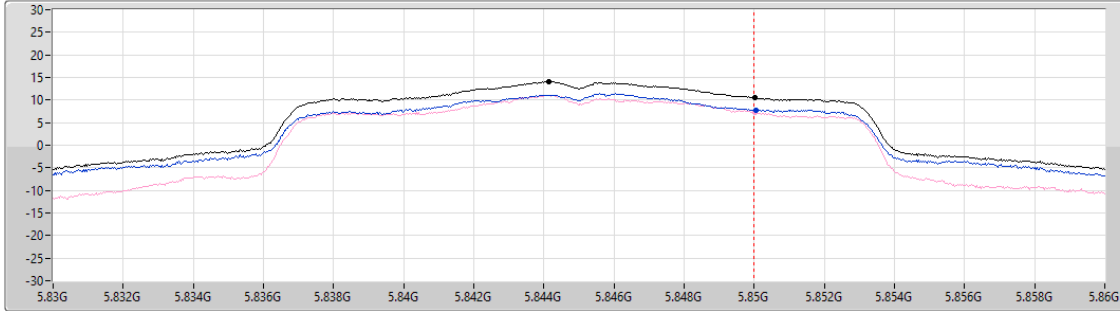
5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX




PSD

5845MHz

14/11/2022

CF  
5.845GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2 

5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
14.03	11.02	500k	-3.01

5850-5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.44	10.44	7.84	7.15

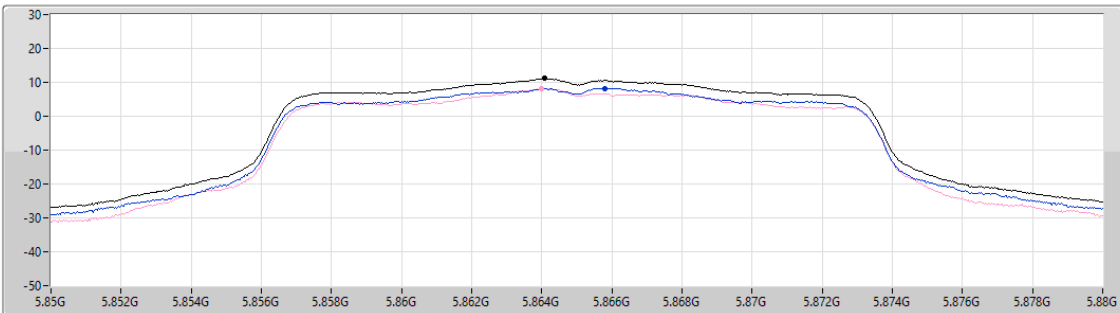
5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX




PSD

5865MHz

14/11/2022

CF  
5.865GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.11	11.11	8.27	8.15



5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

PSD

5885MHz

14/11/2022

CF  
5.885GHz

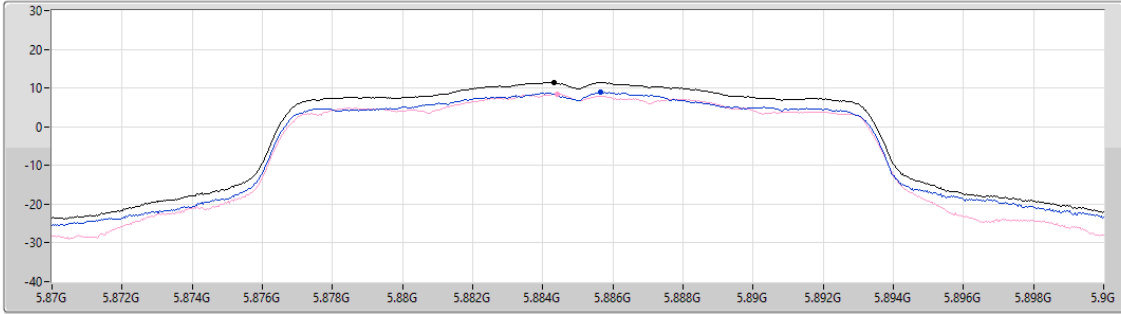
Span  
30MHz


RBW  
1MHz


VBW  
3MHz


Sweep Time  
20ms

Detector Type  
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.47	11.47	8.86	8.47

5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

5845MHz

14/11/2022

CF  
5.845GHz

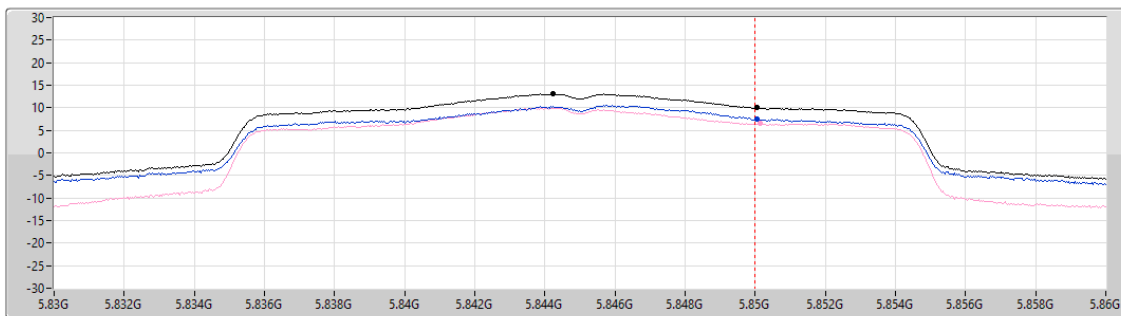
Span  
30MHz


RBW  
1MHz


VBW  
3MHz


Sweep Time  
20ms

Detector Type  
RMS



Sum 

Port 1 

Port 2 

5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
13.09	10.08	500k	-3.01

5850-5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.97	9.97	7.45	6.51

5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

5885MHz

14/11/2022

CF  
5.885GHz

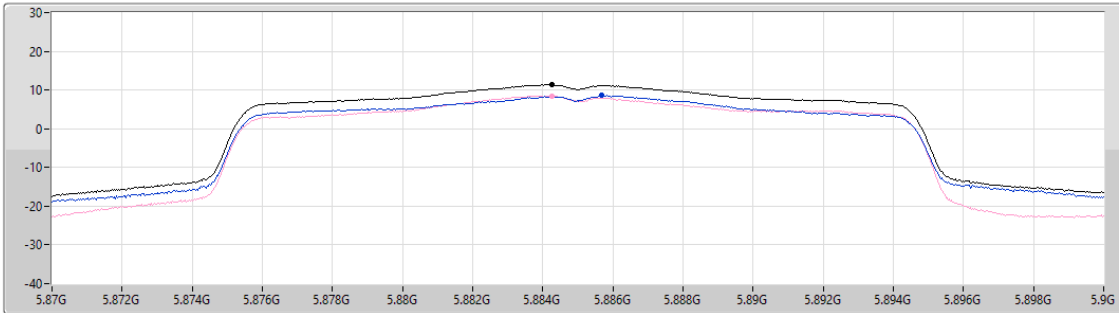
Span  
30MHz


RBW  
1MHz


VBW  
3MHz


Sweep Time  
20ms

Detector Type  
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.36	11.36	8.54	8.51

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

5865MHz

14/11/2022

CF  
5.865GHz

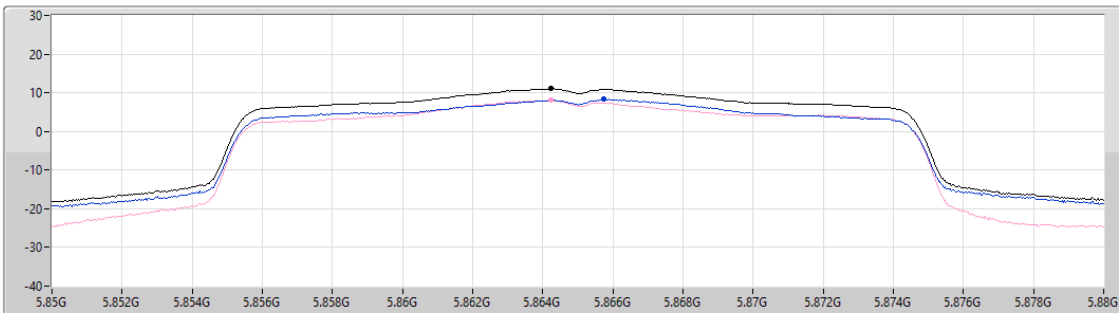
Span  
30MHz


RBW  
1MHz


VBW  
3MHz


Sweep Time  
20ms

Detector Type  
RMS



Sum 

Port 1 

Port 2 

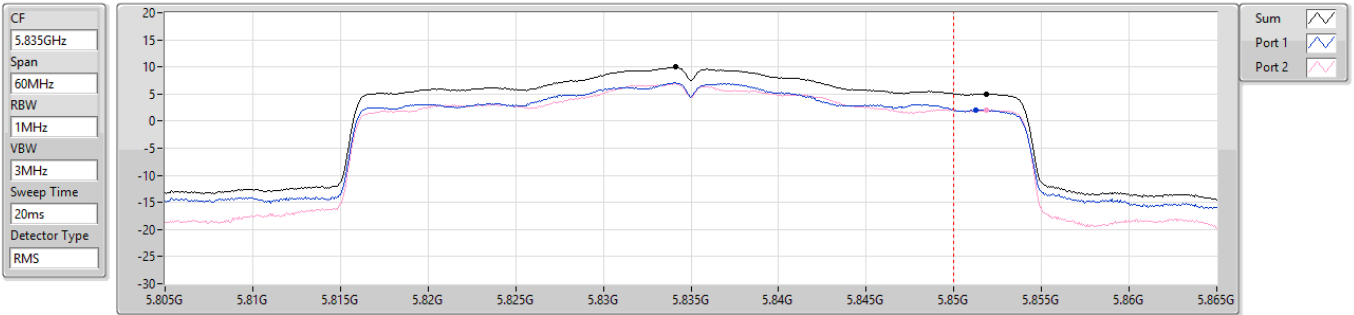
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.04	11.04	8.37	8.05

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

5835MHz

14/11/2022



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
9.97	6.96	500k	-3.01

5850-5895MHz

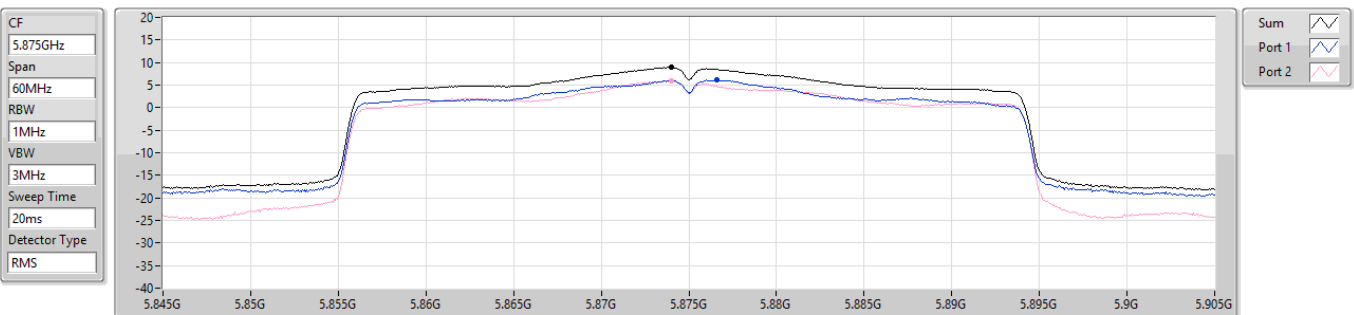
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.05	5.05	2.09	2.02

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

5875MHz

14/11/2022



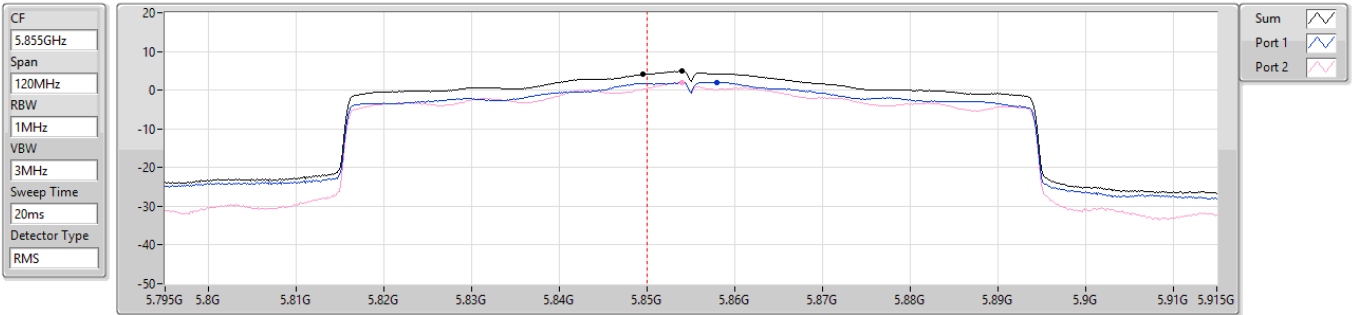
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.95	8.95	6.07	5.98

5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX

PSD

5855MHz

14/11/2022



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
4.06	1.05	500k	-3.01

5850-5895MHz

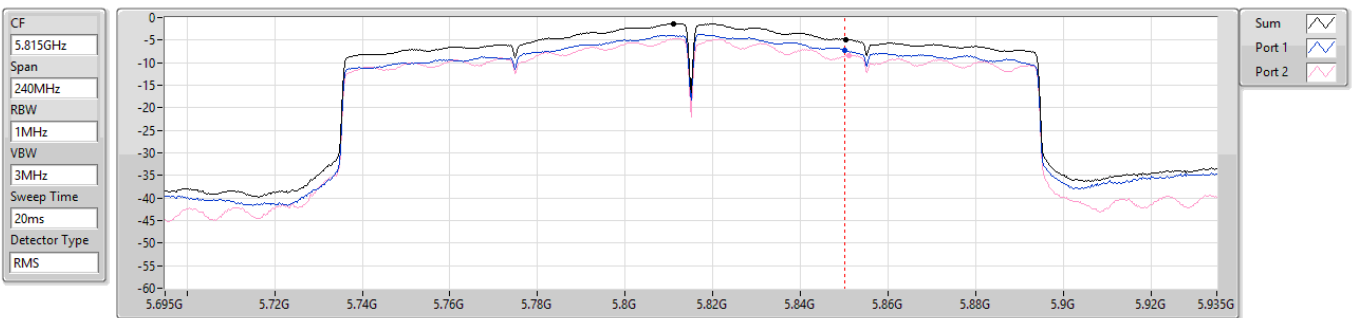
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.90	4.90	2.04	1.94

5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX

PSD

5815MHz

14/11/2022



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
-1.32	-4.33	500k	-3.01

5850-5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.85	-4.85	-7.23	-8.38

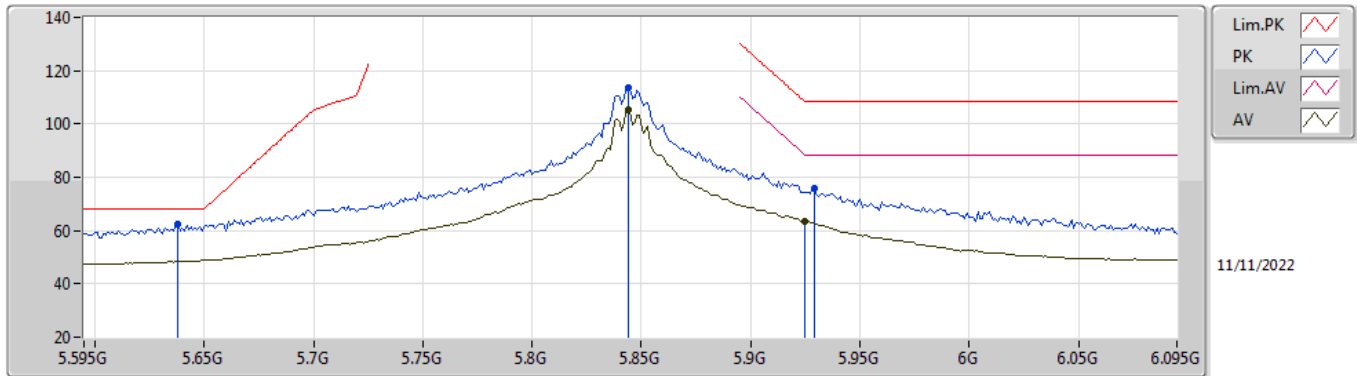


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.646G	68.09	68.20	-0.11	3	Vertical	338	2.16	-

5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5845MHz\_TX

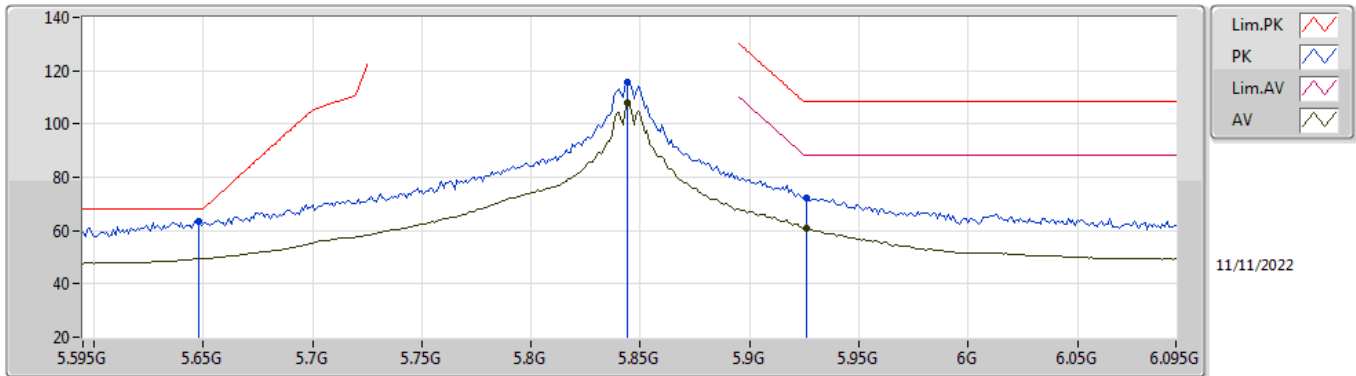


EUT\_Y\_2TX  
Setting 23  
05-M-B-5-10

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	62.51	68.20	-5.69	57.62	3	Vertical	354	2.19	-	33.00	6.40	34.51
PK	5.844G	113.44	Inf	-Inf	107.71	3	Vertical	354	2.19	-	33.99	6.42	34.68
AV	5.844G	105.50	Inf	-Inf	99.77	3	Vertical	354	2.19	-	33.99	6.42	34.68
PK	5.929G	75.66	108.20	-32.54	69.74	3	Vertical	354	2.19	-	34.20	6.46	34.74
RMS	5.925G	63.32	88.20	-24.88	57.40	3	Vertical	354	2.19	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5845MHz\_TX

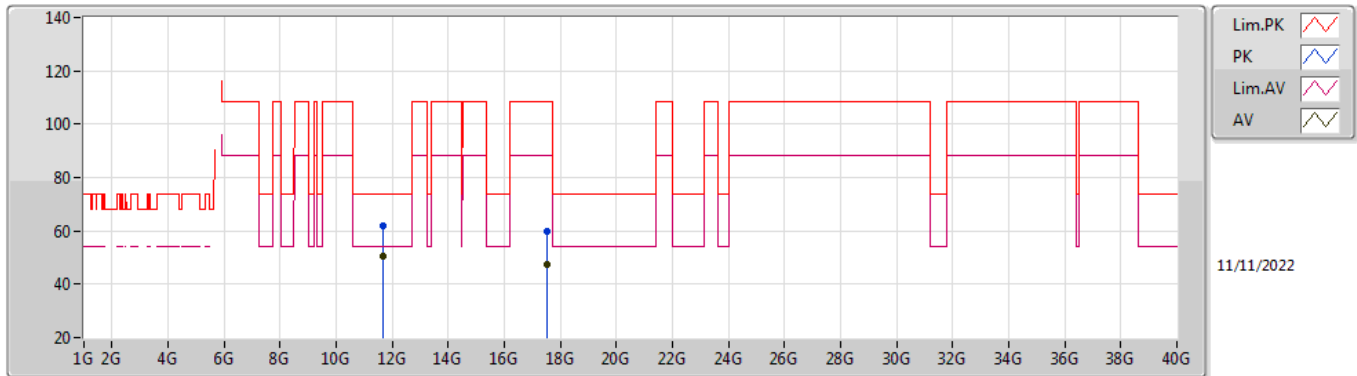


EUT Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	63.56	68.20	-4.64	58.68	3	Horizontal	70	2.30	-	33.00	6.40	34.52
PK	5.844G	115.53	Inf	-Inf	109.80	3	Horizontal	70	2.30	-	33.99	6.42	34.68
AV	5.844G	107.71	Inf	-Inf	101.98	3	Horizontal	70	2.30	-	33.99	6.42	34.68
PK	5.926G	72.37	108.20	-35.83	66.45	3	Horizontal	70	2.30	-	34.20	6.46	34.74
RMS	5.926G	60.80	88.20	-27.40	54.88	3	Horizontal	70	2.30	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5845MHz\_TX



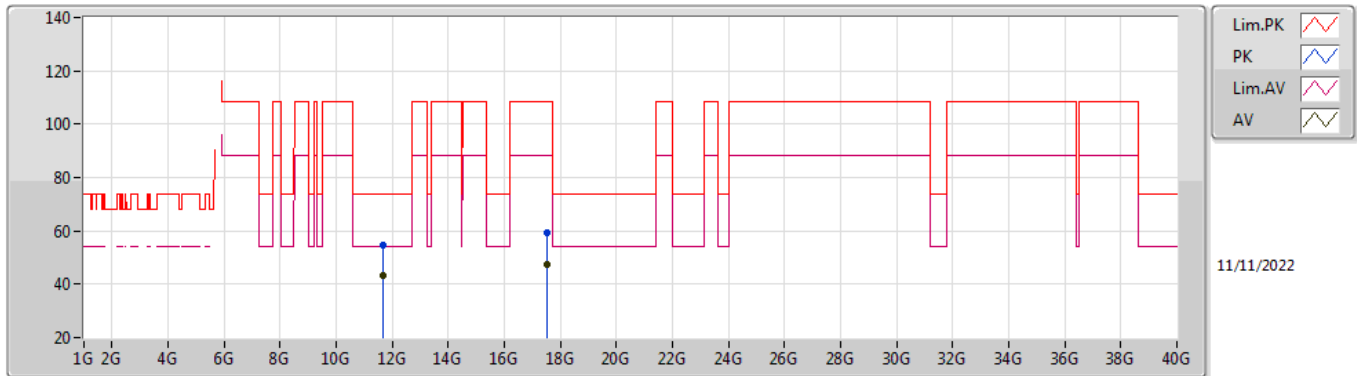
EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.69174G	61.92	74.00	-12.08	47.37	3	Vertical	319	1.76	-	38.52	9.28	33.25
AV	11.6903G	50.48	54.00	-3.52	35.92	3	Vertical	319	1.76	-	38.52	9.28	33.24
PK	17.54388G	60.03	108.20	-48.17	41.03	3	Vertical	248	1.86	-	39.32	11.52	31.84
AV	17.54136G	47.51	88.20	-40.69	28.52	3	Vertical	248	1.86	-	39.31	11.52	31.84



5.725-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5845MHz\_TX

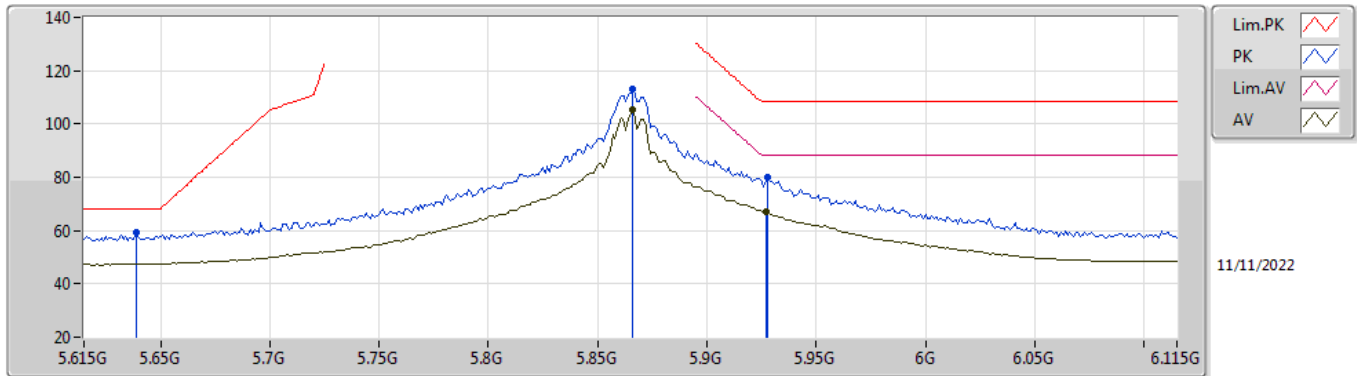


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.69168G	54.71	74.00	-19.29	40.16	3	Horizontal	18	1.97	-	38.52	9.28	33.25
AV	11.68988G	43.10	54.00	-10.90	28.54	3	Horizontal	18	1.97	-	38.52	9.28	33.24
PK	17.54274G	59.37	108.20	-48.83	40.38	3	Horizontal	237	2.09	-	39.31	11.52	31.84
AV	17.54172G	47.42	88.20	-40.78	28.43	3	Horizontal	237	2.09	-	39.31	11.52	31.84

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5865MHz\_TX

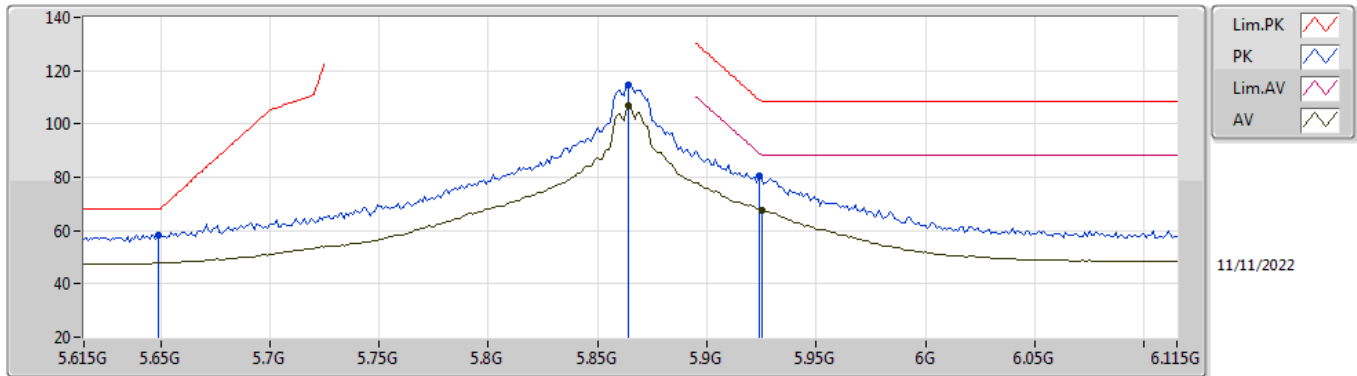


EUT Y\_2TX  
Setting 23  
05-M-B-5-10

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	59.45	68.20	-8.75	54.56	3	Vertical	336	2.06	-	33.00	6.40	34.51
PK	5.866G	113.06	Inf	-Inf	107.26	3	Vertical	336	2.06	-	34.06	6.43	34.69
AV	5.866G	105.19	Inf	-Inf	99.39	3	Vertical	336	2.06	-	34.06	6.43	34.69
PK	5.928G	79.81	108.20	-28.39	73.89	3	Vertical	336	2.06	-	34.20	6.46	34.74
RMS	5.927G	67.19	88.20	-21.01	61.27	3	Vertical	336	2.06	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5865MHz\_TX

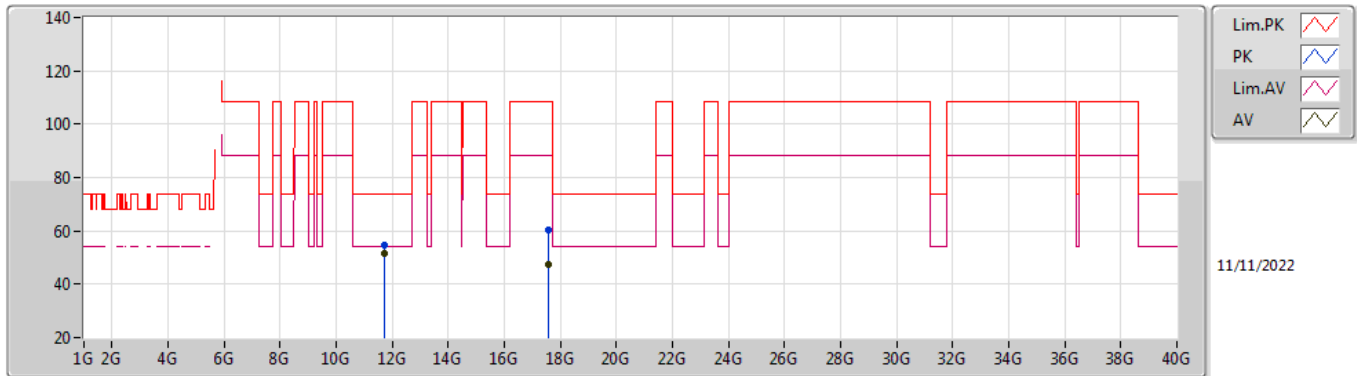


EUT\_Y\_2TX  
Setting 23  
05-M-B-5-10

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	5.649G	58.27	68.20	-9.93	53.39	3	Horizontal	74	2.72	-	33.00	6.40	34.52
PK	5.864G	114.85	Inf	-Inf	109.05	3	Horizontal	74	2.72	-	34.06	6.43	34.69
AV	5.864G	107.11	Inf	-Inf	101.31	3	Horizontal	74	2.72	-	34.06	6.43	34.69
PK	5.924G	80.74	108.93	-28.19	74.82	3	Horizontal	74	2.72	-	34.20	6.46	34.74
RMS	5.925G	67.65	88.20	-20.55	61.73	3	Horizontal	74	2.72	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5865MHz\_TX

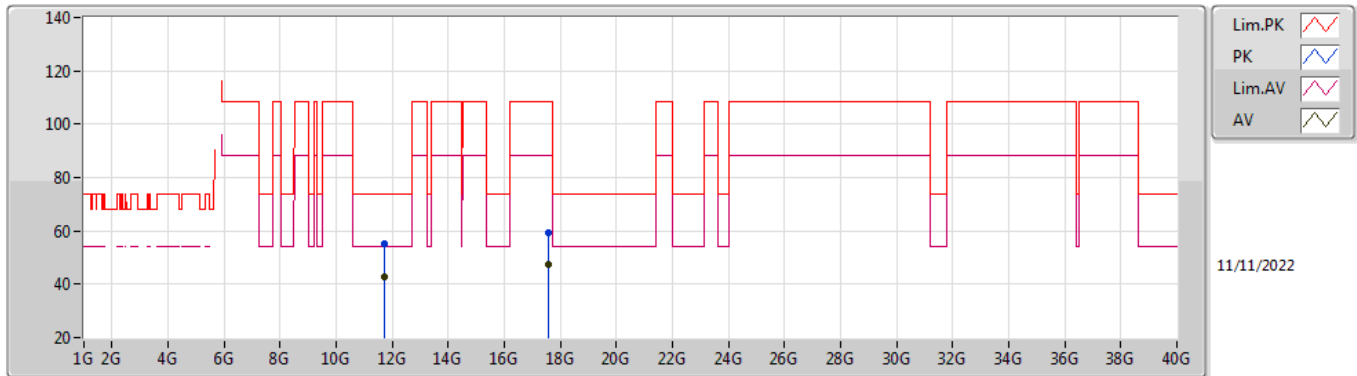


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.72816G	54.79	74.00	-19.21	40.32	3	Vertical	319	2.29	-	38.47	9.29	33.29
AV	11.73072G	51.66	54.00	-2.34	37.20	3	Vertical	319	2.29	-	38.47	9.29	33.30
PK	17.59086G	60.32	108.20	-47.88	41.14	3	Vertical	294	1.38	-	39.55	11.54	31.91
AV	17.5875G	47.37	88.20	-40.83	28.20	3	Vertical	294	1.38	-	39.54	11.54	31.91

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5865MHz\_TX

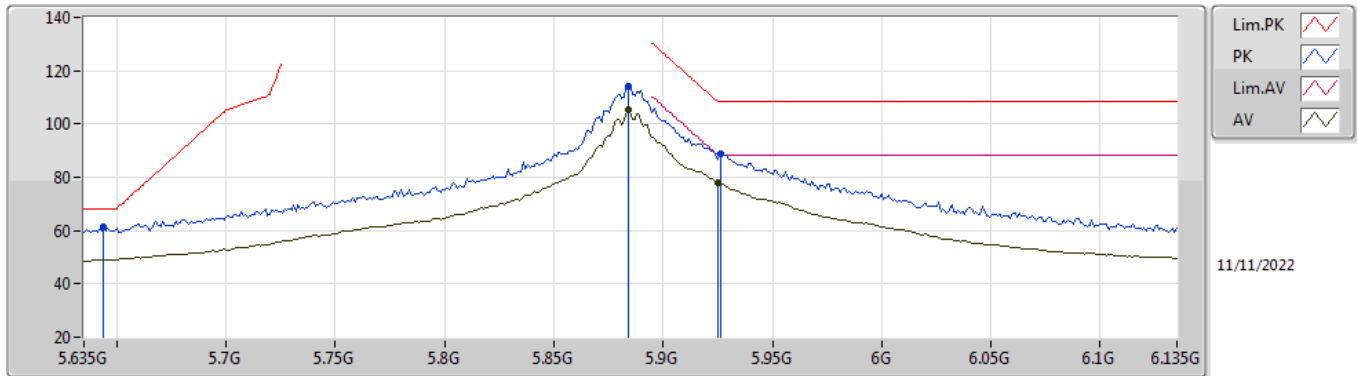


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.73142G	55.31	74.00	-18.69	40.85	3	Horizontal	166	2.32	-	38.47	9.29	33.30
AV	11.72976G	42.98	54.00	-11.02	28.51	3	Horizontal	166	2.32	-	38.47	9.29	33.29
PK	17.59182G	59.22	108.20	-48.98	40.03	3	Horizontal	81	1.25	-	39.56	11.54	31.91
AV	17.59326G	47.59	88.20	-40.61	28.39	3	Horizontal	81	1.25	-	39.57	11.54	31.91

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5885MHz\_TX

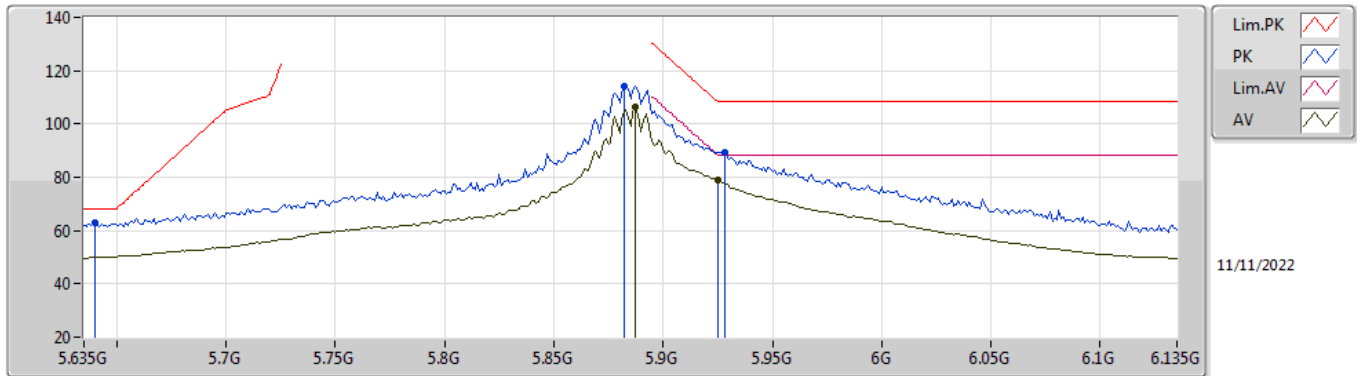


EUT Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	5.644G	61.54	68.20	-6.66	56.66	3	Vertical	350	2.06	-	33.00	6.40	34.52
PK	5.884G	114.31	Inf	-Inf	108.44	3	Vertical	350	2.06	-	34.14	6.44	34.71
AV	5.884G	105.30	Inf	-Inf	99.43	3	Vertical	350	2.06	-	34.14	6.44	34.71
PK	5.926G	88.99	108.20	-19.21	83.07	3	Vertical	350	2.06	-	34.20	6.46	34.74
RMS	5.925G	77.85	88.20	-10.35	71.93	3	Vertical	350	2.06	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5885MHz\_TX

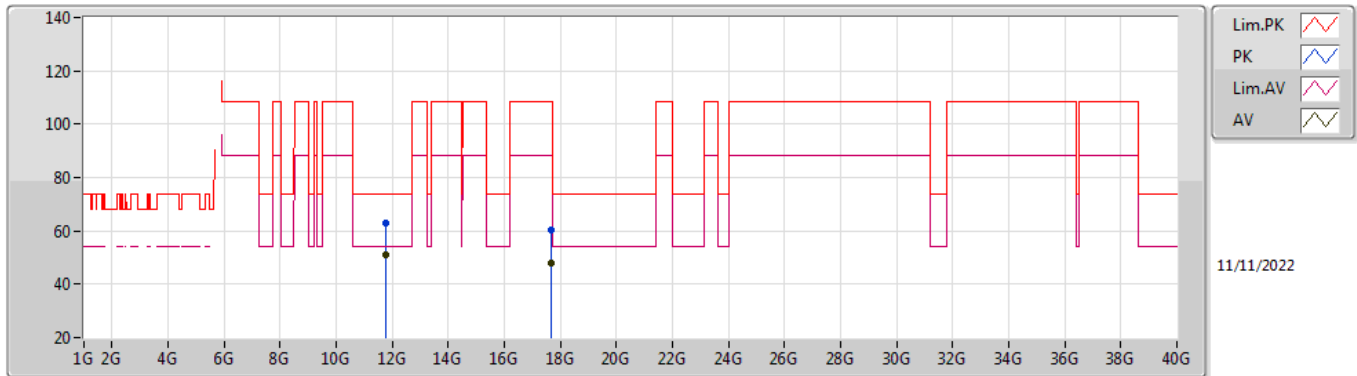


EUT Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	5.64G	63.11	68.20	-5.09	58.22	3	Horizontal	89	1.76	-	33.00	6.40	34.51
PK	5.882G	114.22	Inf	-Inf	108.36	3	Horizontal	89	1.76	-	34.13	6.44	34.71
AV	5.887G	106.20	Inf	-Inf	100.32	3	Horizontal	89	1.76	-	34.15	6.44	34.71
PK	5.928G	89.35	108.20	-18.85	83.43	3	Horizontal	89	1.76	-	34.20	6.46	34.74
RMS	5.925G	78.89	88.20	-9.31	72.97	3	Horizontal	89	1.76	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5885MHz\_TX



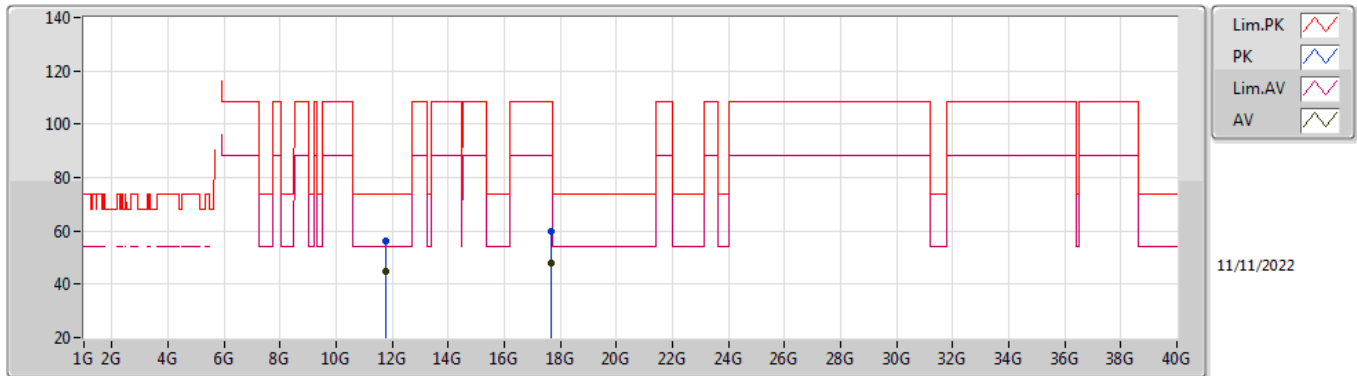
EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.77222G	62.82	74.00	-11.18	48.43	3	Vertical	318	2.25	-	38.43	9.31	33.35
AV	11.77084G	51.22	54.00	-2.78	36.83	3	Vertical	318	2.25	-	38.43	9.31	33.35
PK	17.65888G	60.35	108.20	-47.85	40.79	3	Vertical	300	2.74	-	40.01	11.56	32.01
AV	17.65602G	47.98	88.20	-40.22	28.43	3	Vertical	300	2.74	-	39.99	11.56	32.00



5.85-5.895GHz\_802.11a\_Nss1,(6Mbps)\_2TX

5885MHz\_TX

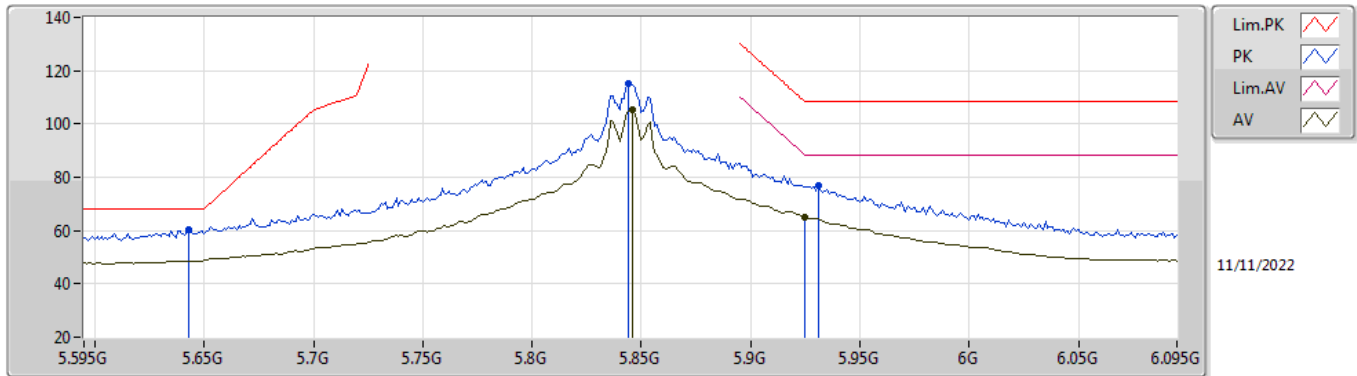


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.77174G	56.41	74.00	-17.59	42.02	3	Horizontal	26	1.85	-	38.43	9.31	33.35
AV	11.7703G	44.84	54.00	-9.16	30.45	3	Horizontal	26	1.85	-	38.43	9.31	33.35
PK	17.65188G	59.75	108.20	-48.45	40.23	3	Horizontal	217	1.95	-	39.96	11.56	32.00
AV	17.6631G	47.96	88.20	-40.24	28.36	3	Horizontal	217	1.95	-	40.04	11.57	32.01

5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5845MHz\_TX

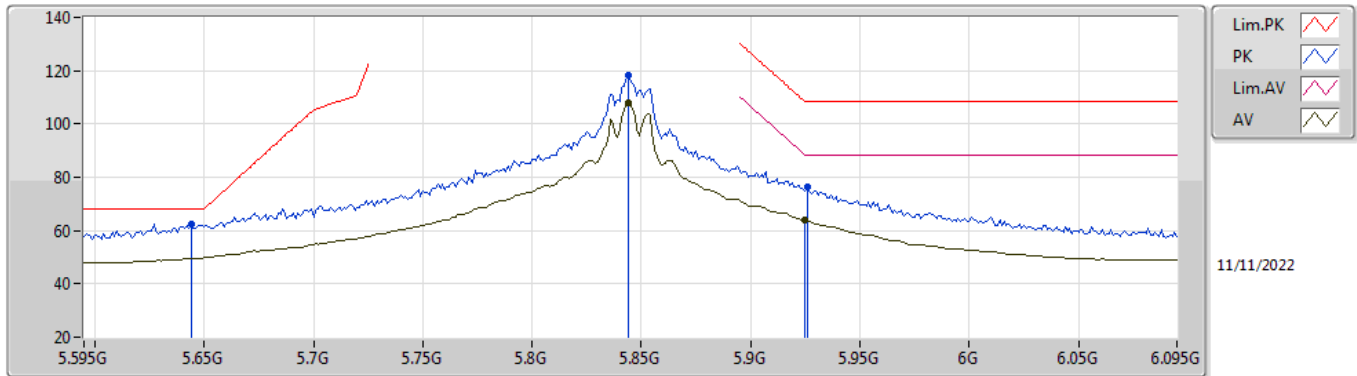


EUT\_Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	60.18	68.20	-8.02	55.29	3	Vertical	341	2.18	-	33.00	6.40	34.51
PK	5.844G	115.31	Inf	-Inf	109.58	3	Vertical	341	2.18	-	33.99	6.42	34.68
AV	5.846G	105.43	Inf	-Inf	99.70	3	Vertical	341	2.18	-	33.99	6.42	34.68
PK	5.931G	77.03	108.20	-31.17	71.10	3	Vertical	341	2.18	-	34.20	6.47	34.74
RMS	5.925G	64.82	88.20	-23.38	58.90	3	Vertical	341	2.18	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5845MHz\_TX

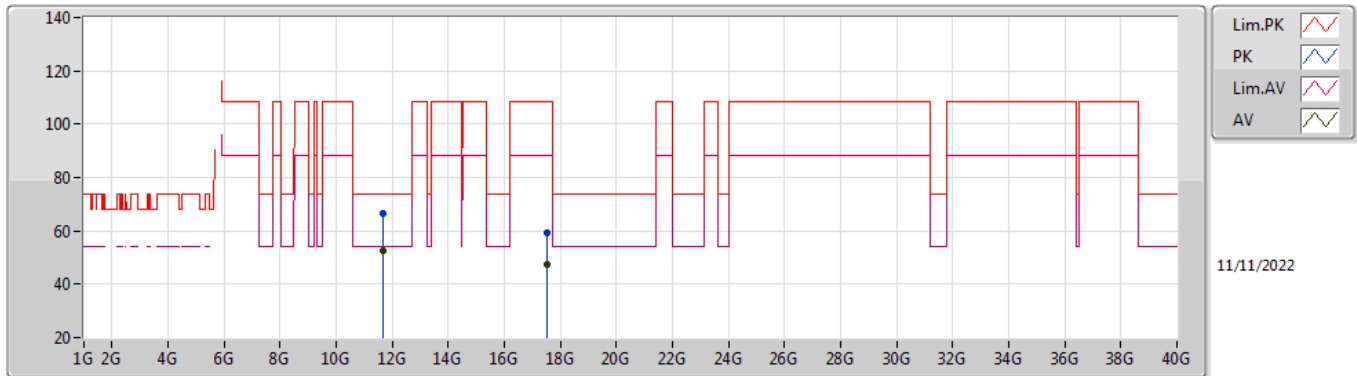


EUT\_Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	5.644G	62.53	68.20	-5.67	57.65	3	Horizontal	71	2.26	-	33.00	6.40	34.52
PK	5.844G	118.47	Inf	-Inf	112.74	3	Horizontal	71	2.26	-	33.99	6.42	34.68
AV	5.844G	107.95	Inf	-Inf	102.22	3	Horizontal	71	2.26	-	33.99	6.42	34.68
PK	5.926G	76.41	108.20	-31.79	70.49	3	Horizontal	71	2.26	-	34.20	6.46	34.74
RMS	5.925G	63.80	88.20	-24.40	57.88	3	Horizontal	71	2.26	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5845MHz\_TX

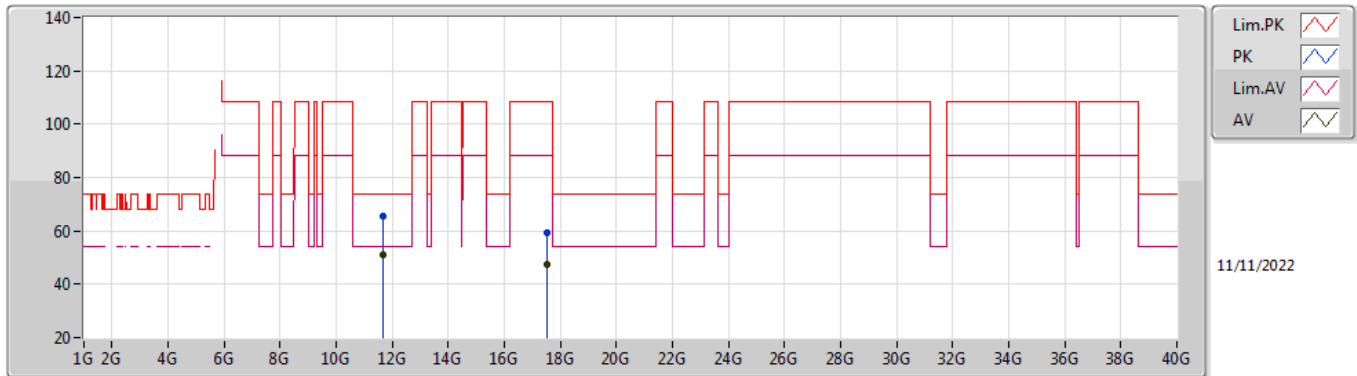


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.69066G	66.79	74.00	-7.21	52.23	3	Vertical	319	2.27	-	38.52	9.28	33.24
AV	11.68988G	52.45	54.00	-1.55	37.89	3	Vertical	319	2.27	-	38.52	9.28	33.24
PK	17.53542G	59.56	108.20	-48.64	40.60	3	Vertical	129	2.54	-	39.28	11.51	31.83
AV	17.53872G	47.41	88.20	-40.79	28.44	3	Vertical	129	2.54	-	39.29	11.52	31.84

5.725-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5845MHz\_TX

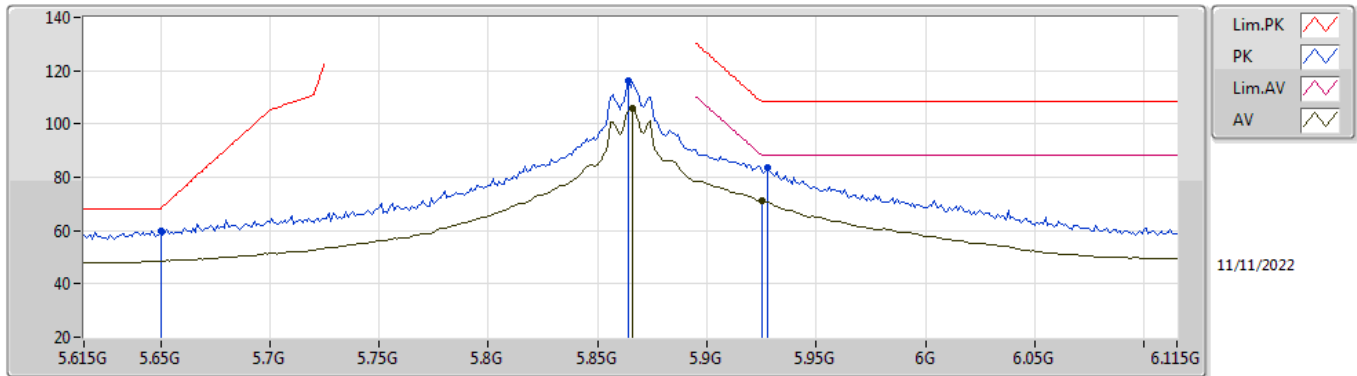


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.6909G	65.42	74.00	-8.58	50.86	3	Horizontal	50	2.77	-	38.52	9.28	33.24
AV	11.69072G	51.07	54.00	-2.93	36.51	3	Horizontal	50	2.77	-	38.52	9.28	33.24
PK	17.5212G	59.20	108.20	-49.00	40.29	3	Horizontal	188	1.27	-	39.21	11.51	31.81
AV	17.5383G	47.22	88.20	-40.98	28.25	3	Horizontal	188	1.27	-	39.29	11.52	31.84

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5865MHz\_TX

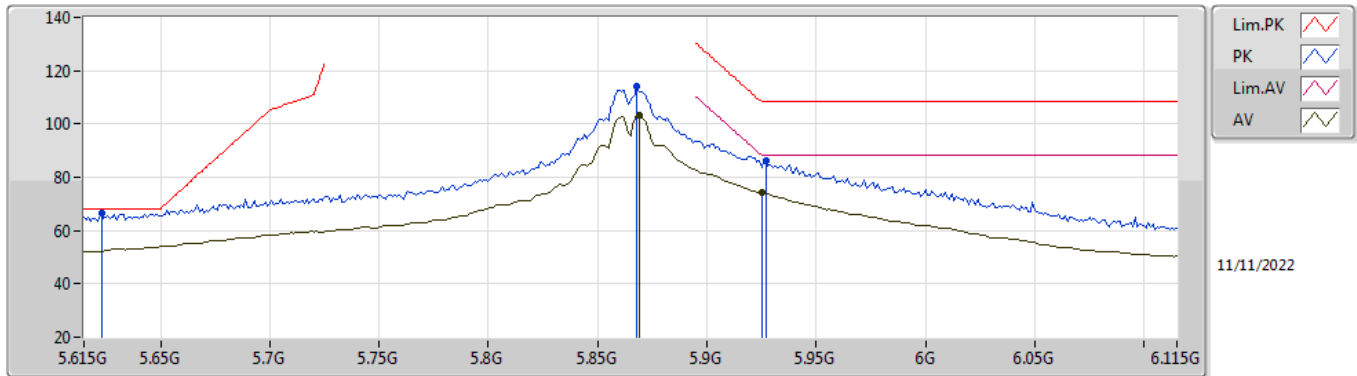


EUT\_Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	59.87	68.20	-8.33	54.99	3	Vertical	336	1.87	-	33.00	6.40	34.52
PK	5.864G	116.32	Inf	-Inf	110.52	3	Vertical	336	1.87	-	34.06	6.43	34.69
AV	5.866G	105.76	Inf	-Inf	99.96	3	Vertical	336	1.87	-	34.06	6.43	34.69
PK	5.928G	83.87	108.20	-24.33	77.95	3	Vertical	336	1.87	-	34.20	6.46	34.74
RMS	5.925G	71.06	88.20	-17.14	65.14	3	Vertical	336	1.87	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5865MHz\_TX

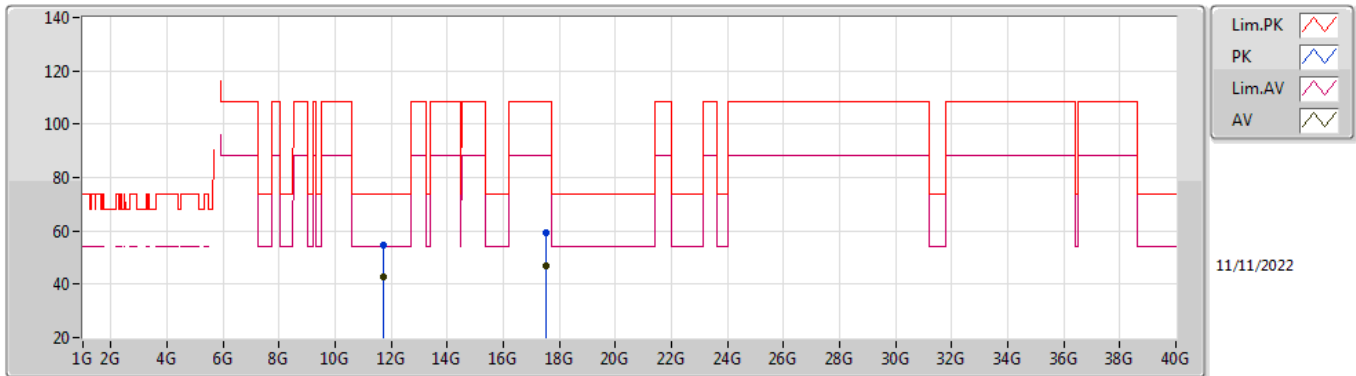


EUT Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	5.623G	66.40	68.20	-1.80	61.50	3	Horizontal	86	1.06	-	33.00	6.40	34.50
PK	5.868G	114.19	Inf	-Inf	108.38	3	Horizontal	86	1.06	-	34.07	6.43	34.69
AV	5.869G	103.43	Inf	-Inf	97.62	3	Horizontal	86	1.06	-	34.08	6.43	34.70
PK	5.927G	86.03	108.20	-22.17	80.11	3	Horizontal	86	1.06	-	34.20	6.46	34.74
RMS	5.925G	74.34	88.20	-13.86	68.42	3	Horizontal	86	1.06	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5865MHz\_TX



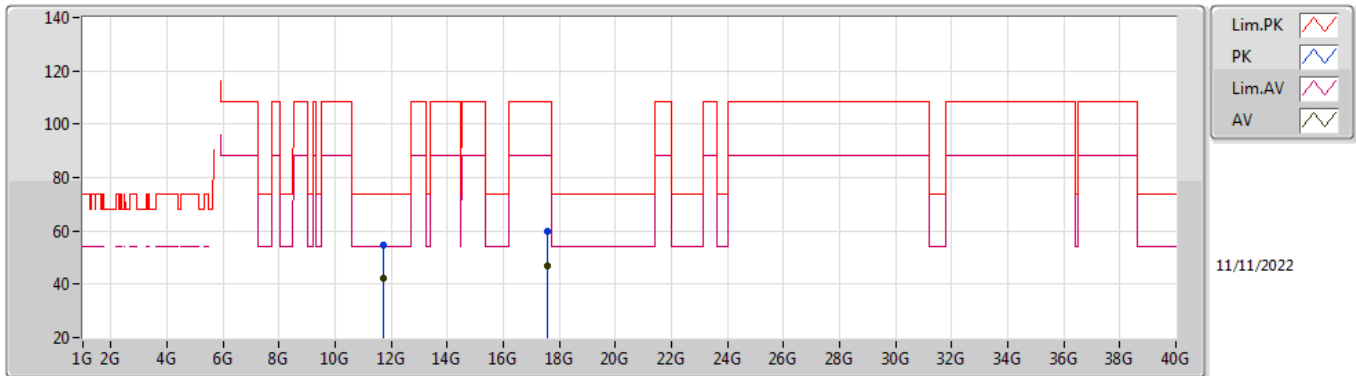
EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.7198G	54.83	74.00	-19.17	40.34	3	Vertical	249	2.34	-	38.48	9.29	33.28
AV	11.73576G	42.56	54.00	-11.44	28.11	3	Vertical	249	2.34	-	38.46	9.29	33.30
PK	17.52954G	59.44	108.20	-48.76	40.50	3	Vertical	205	2.21	-	39.25	11.51	31.82
AV	17.54916G	47.02	88.20	-41.18	28.00	3	Vertical	205	2.21	-	39.35	11.52	31.85



5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5865MHz\_TX

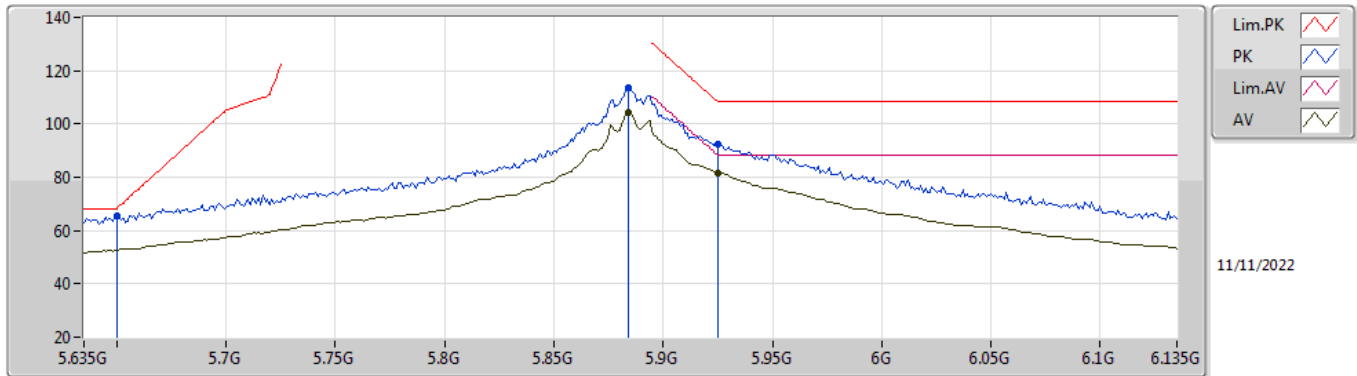


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.71584G	54.67	74.00	-19.33	40.18	3	Horizontal	302	1.21	-	38.48	9.29	33.28
AV	11.73228G	42.40	54.00	-11.60	27.94	3	Horizontal	302	1.21	-	38.47	9.29	33.30
PK	17.5956G	59.66	108.20	-48.54	40.46	3	Horizontal	242	2.02	-	39.58	11.54	31.92
AV	17.58378G	46.86	88.20	-41.34	27.71	3	Horizontal	242	2.02	-	39.52	11.53	31.90

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5885MHz\_TX

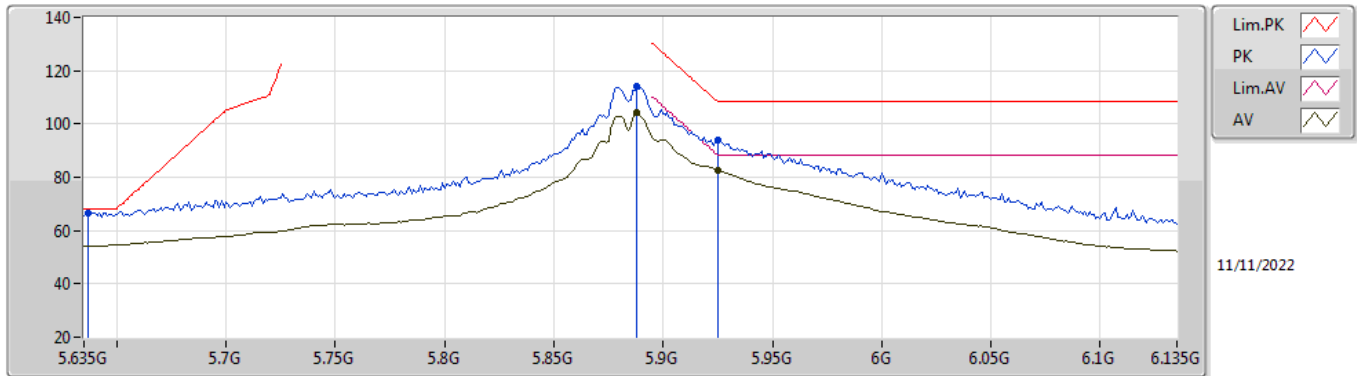


EUT Y\_2TX  
Setting 23  
05-M-B-5-10

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	65.43	68.20	-2.77	60.55	3	Vertical	344	2.07	-	33.00	6.40	34.52
PK	5.884G	113.61	Inf	-Inf	107.74	3	Vertical	344	2.07	-	34.14	6.44	34.71
AV	5.884G	104.29	Inf	-Inf	98.42	3	Vertical	344	2.07	-	34.14	6.44	34.71
PK	5.925G	92.66	108.20	-15.54	86.74	3	Vertical	344	2.07	-	34.20	6.46	34.74
RMS	5.925G	81.78	88.20	-6.42	75.86	3	Vertical	344	2.07	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5885MHz\_TX

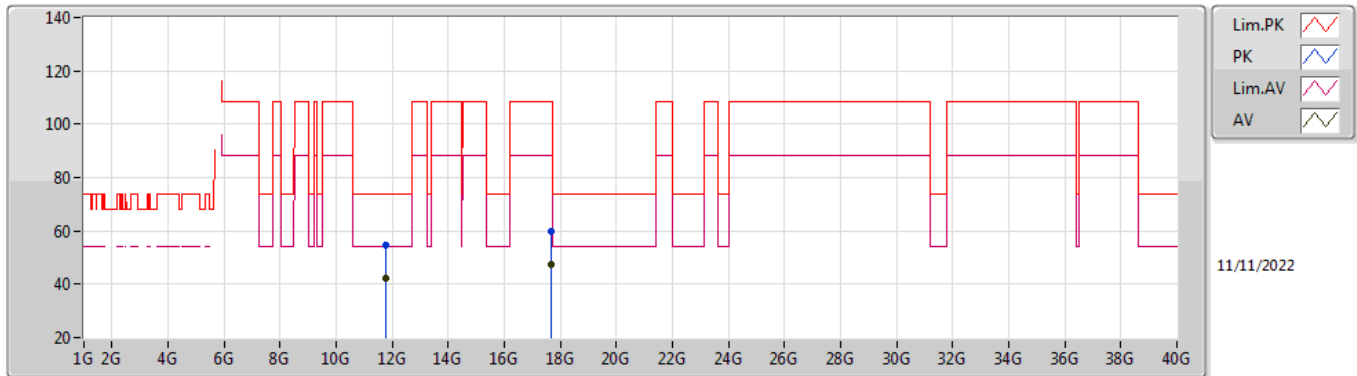


EUT Y\_2TX  
 Setting 23  
 05-M-B-5-10

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	5.637G	66.72	68.20	-1.48	61.83	3	Horizontal	88	1.15	-	33.00	6.40	34.51
PK	5.888G	114.01	Inf	-Inf	108.13	3	Horizontal	88	1.15	-	34.15	6.44	34.71
AV	5.888G	104.34	Inf	-Inf	98.46	3	Horizontal	88	1.15	-	34.15	6.44	34.71
PK	5.925G	94.11	108.20	-14.09	88.19	3	Horizontal	88	1.15	-	34.20	6.46	34.74
RMS	5.925G	82.61	88.20	-5.59	76.69	3	Horizontal	88	1.15	-	34.20	6.46	34.74

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5885MHz\_TX

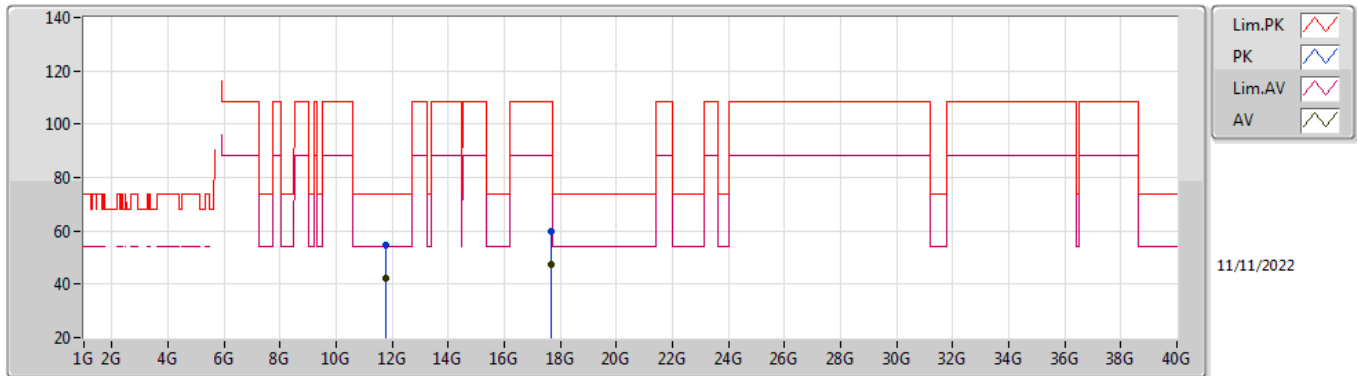


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.77082G	54.44	74.00	-19.56	40.05	3	Vertical	152	1.54	-	38.43	9.31	33.35
AV	11.7674G	42.12	54.00	-11.88	27.72	3	Vertical	152	1.54	-	38.43	9.31	33.34
PK	17.65042G	59.83	108.20	-48.37	40.32	3	Vertical	60	1.26	-	39.95	11.56	32.00
AV	17.65652G	47.40	88.20	-40.80	27.85	3	Vertical	60	1.26	-	40.00	11.56	32.01

5.85-5.895GHz\_802.11ax HEW20\_Nss1,(MCS0)\_2TX

5885MHz\_TX

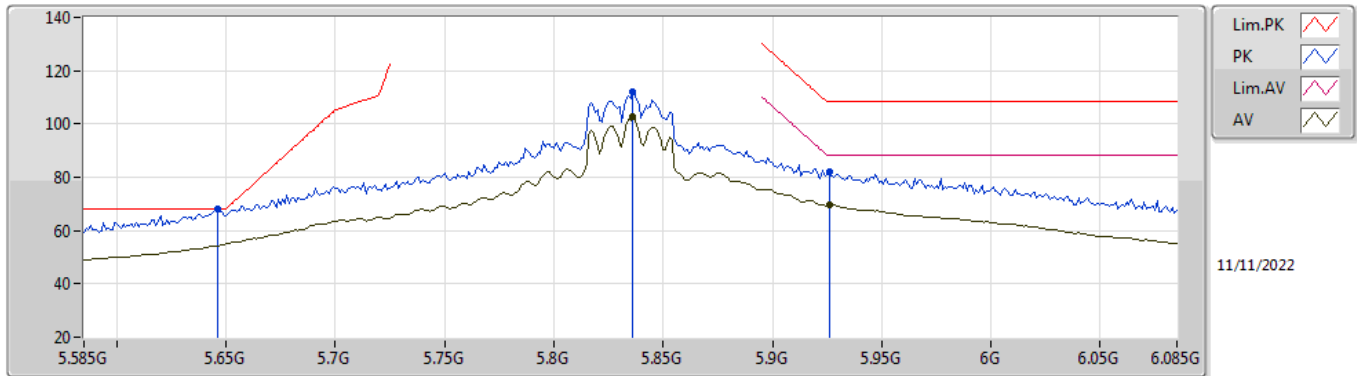


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.77168G	54.41	74.00	-19.59	40.02	3	Horizontal	120	2.59	-	38.43	9.31	33.35
AV	11.76898G	42.06	54.00	-11.94	27.66	3	Horizontal	120	2.59	-	38.43	9.31	33.34
PK	17.65766G	59.63	108.20	-48.57	40.08	3	Horizontal	355	1.46	-	40.00	11.56	32.01
AV	17.65744G	47.50	88.20	-40.70	27.95	3	Horizontal	355	1.46	-	40.00	11.56	32.01

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5835MHz\_TX

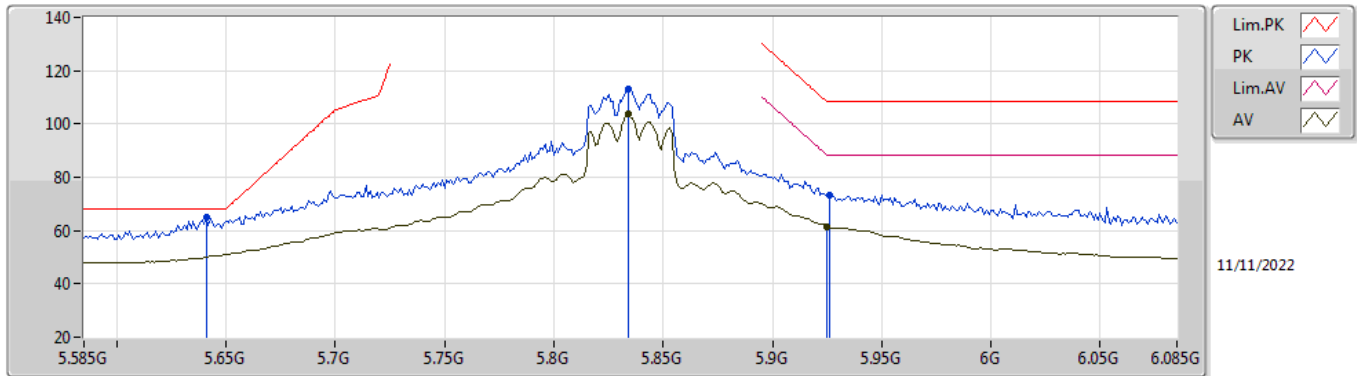


EUT Y\_2TX  
Setting 21  
05-M-B-5-10

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	5.646G	68.09	68.20	-0.11	63.21	3	Vertical	338	2.16	-	33.00	6.40	34.52
PK	5.836G	112.31	Inf	-Inf	106.59	3	Vertical	338	2.16	-	33.97	6.42	34.67
AV	5.836G	102.64	Inf	-Inf	96.92	3	Vertical	338	2.16	-	33.97	6.42	34.67
PK	5.926G	81.99	108.20	-26.21	76.07	3	Vertical	338	2.16	-	34.20	6.46	34.74
RMS	5.926G	69.62	88.20	-18.58	63.70	3	Vertical	338	2.16	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5835MHz\_TX

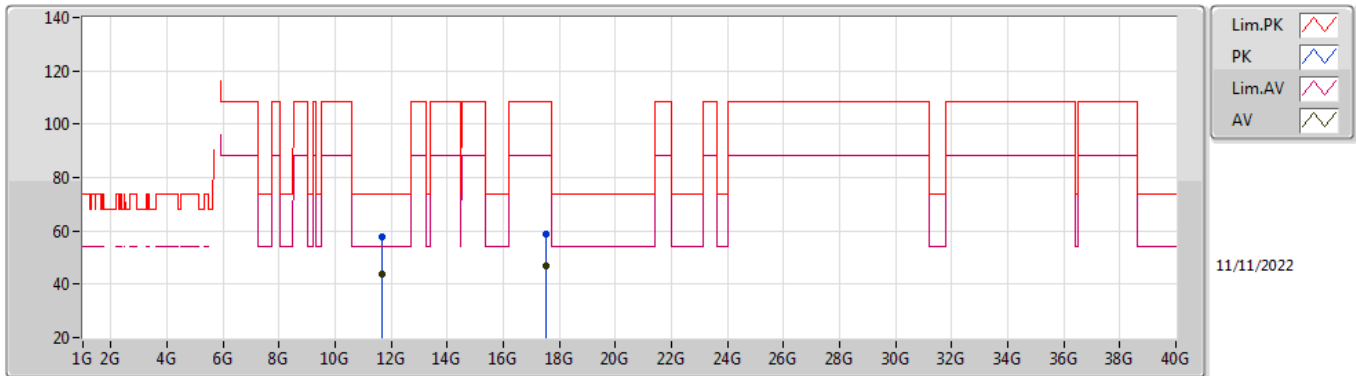


EUT Y\_2TX  
 Setting 21  
 05-M-B-5-10

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	5.641G	64.96	68.20	-3.24	60.07	3	Horizontal	72	2.28	-	33.00	6.40	34.51
PK	5.834G	113.20	Inf	-Inf	107.48	3	Horizontal	72	2.28	-	33.97	6.42	34.67
AV	5.834G	103.97	Inf	-Inf	98.25	3	Horizontal	72	2.28	-	33.97	6.42	34.67
PK	5.926G	73.45	108.20	-34.75	67.53	3	Horizontal	72	2.28	-	34.20	6.46	34.74
RMS	5.925G	61.56	88.20	-26.64	55.64	3	Horizontal	72	2.28	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5835MHz\_TX



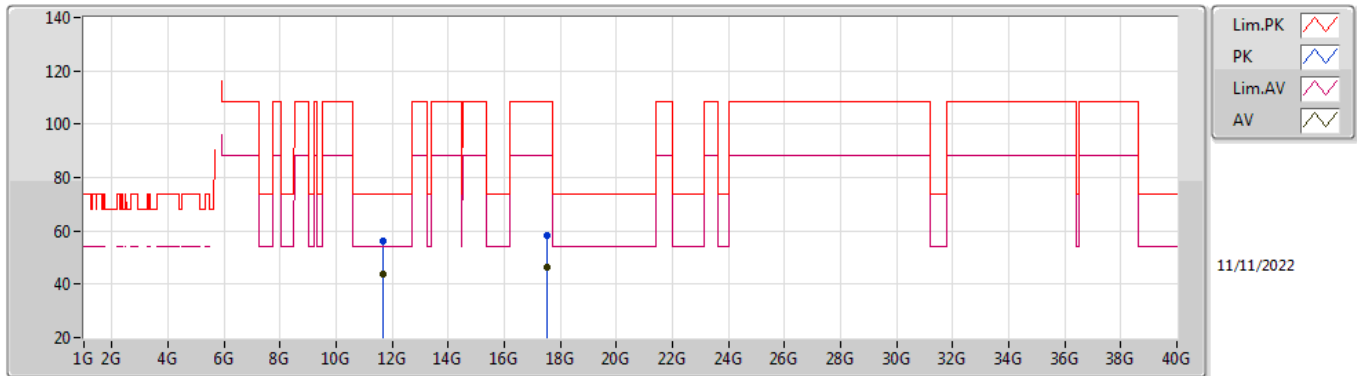
EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.67492G	57.56	74.00	-16.44	42.96	3	Vertical	87	2.33	-	38.55	9.27	33.22
AV	11.67488G	43.68	54.00	-10.32	29.08	3	Vertical	87	2.33	-	38.55	9.27	33.22
PK	17.50844G	58.86	108.20	-49.34	40.01	3	Vertical	153	1.94	-	39.14	11.50	31.79
AV	17.5095G	46.81	88.20	-41.39	27.95	3	Vertical	153	1.94	-	39.15	11.50	31.79



5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5835MHz\_TX

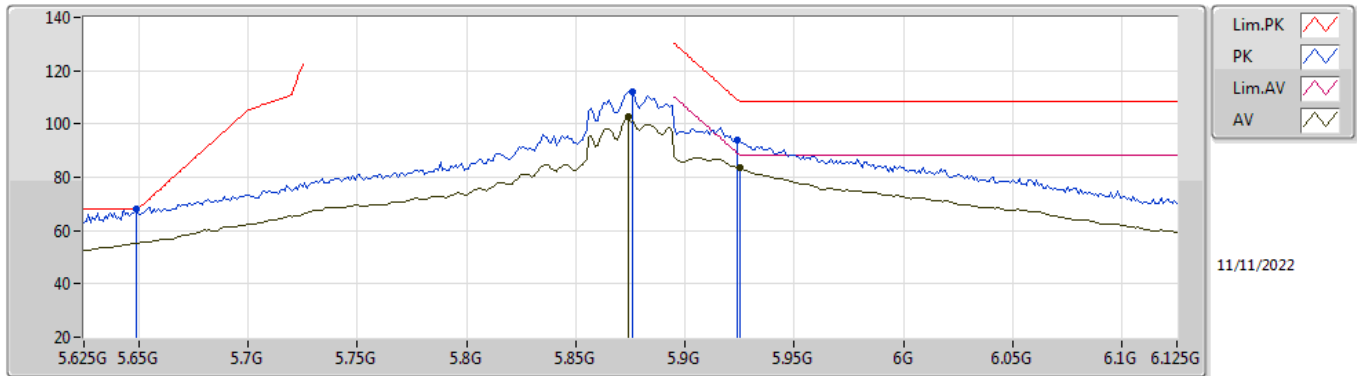


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.6747G	56.28	74.00	-17.72	41.68	3	Horizontal	161	1.68	-	38.55	9.27	33.22
AV	11.67488G	43.61	54.00	-10.39	29.01	3	Horizontal	161	1.68	-	38.55	9.27	33.22
PK	17.50282G	58.14	108.20	-50.06	39.31	3	Horizontal	194	1.11	-	39.11	11.50	31.78
AV	17.50898G	46.60	88.20	-41.60	27.75	3	Horizontal	194	1.11	-	39.14	11.50	31.79

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5875MHz\_TX

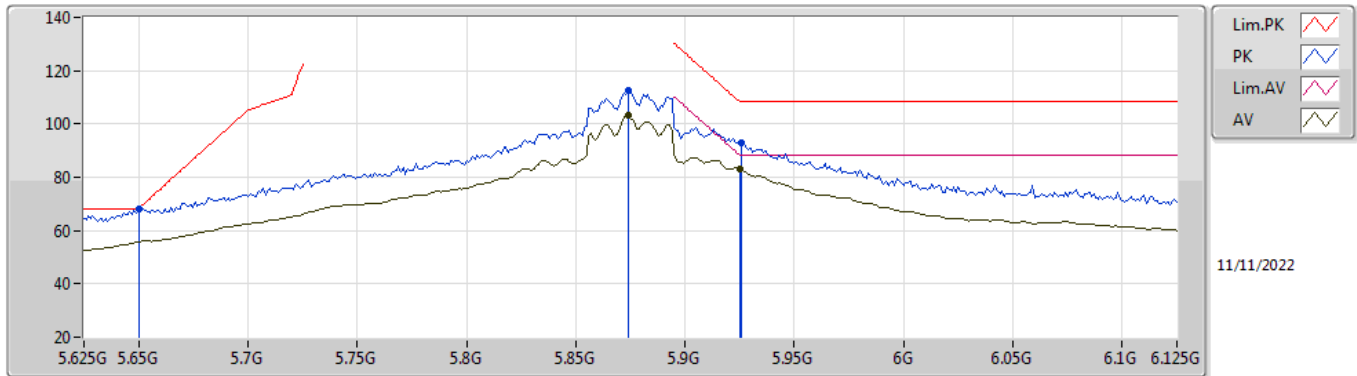


EUT Y\_2TX  
 Setting 22  
 05-M-B-5-10

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	5.649G	67.95	68.20	-0.25	63.07	3	Vertical	345	2.10	-	33.00	6.40	34.52
PK	5.876G	112.26	Inf	-Inf	106.42	3	Vertical	345	2.10	-	34.10	6.44	34.70
AV	5.874G	102.57	Inf	-Inf	96.73	3	Vertical	345	2.10	-	34.10	6.44	34.70
PK	5.924G	94.08	108.93	-14.85	88.16	3	Vertical	345	2.10	-	34.20	6.46	34.74
RMS	5.925G	83.49	88.20	-4.71	77.57	3	Vertical	345	2.10	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5875MHz\_TX

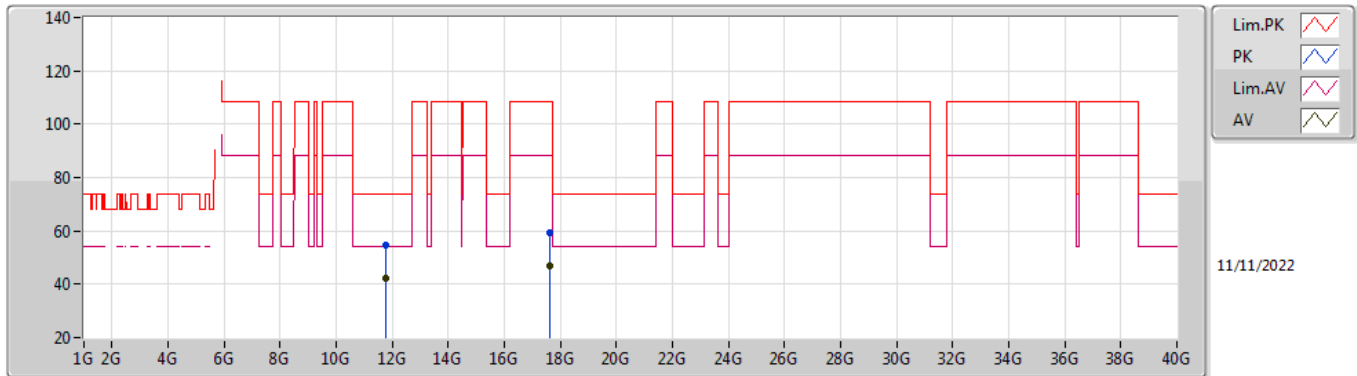


EUT Y\_2TX  
 Setting 22  
 05-M-B-5-10

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	68.07	68.20	-0.13	63.19	3	Horizontal	73	2.75	-	33.00	6.40	34.52
PK	5.874G	112.61	Inf	-Inf	106.77	3	Horizontal	73	2.75	-	34.10	6.44	34.70
AV	5.874G	103.47	Inf	-Inf	97.63	3	Horizontal	73	2.75	-	34.10	6.44	34.70
PK	5.926G	92.69	108.20	-15.51	86.77	3	Horizontal	73	2.75	-	34.20	6.46	34.74
RMS	5.925G	83.02	88.20	-5.18	77.10	3	Horizontal	73	2.75	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5875MHz\_TX

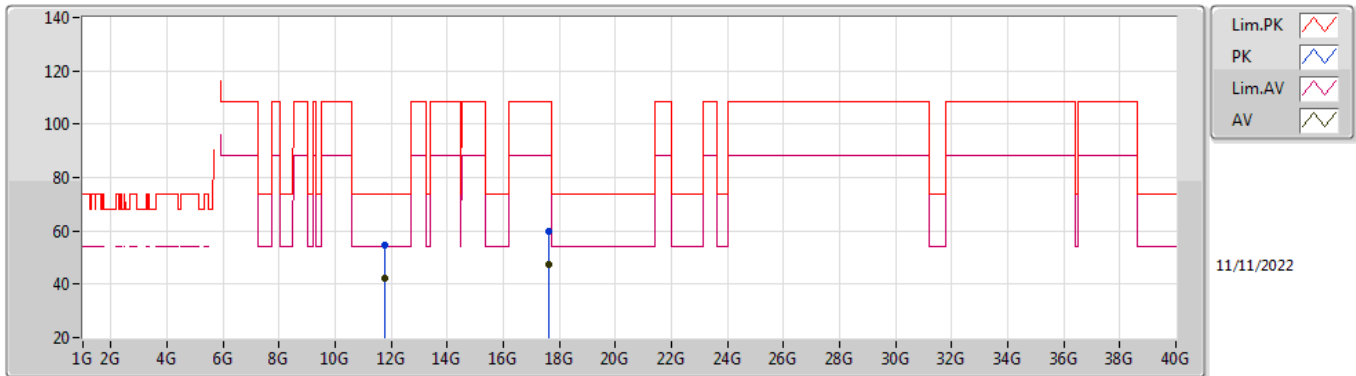


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.75296G	54.66	74.00	-19.34	40.23	3	Vertical	211	2.59	-	38.45	9.30	33.32
AV	11.74592G	42.21	54.00	-11.79	27.77	3	Vertical	211	2.59	-	38.45	9.30	33.31
PK	17.62694G	59.42	108.20	-48.78	40.04	3	Vertical	280	1.03	-	39.79	11.55	31.96
AV	17.627G	47.01	88.20	-41.19	27.63	3	Vertical	280	1.03	-	39.79	11.55	31.96

5.725-5.895GHz\_802.11ax HEW40\_Nss1,(MCS0)\_2TX

5875MHz\_TX

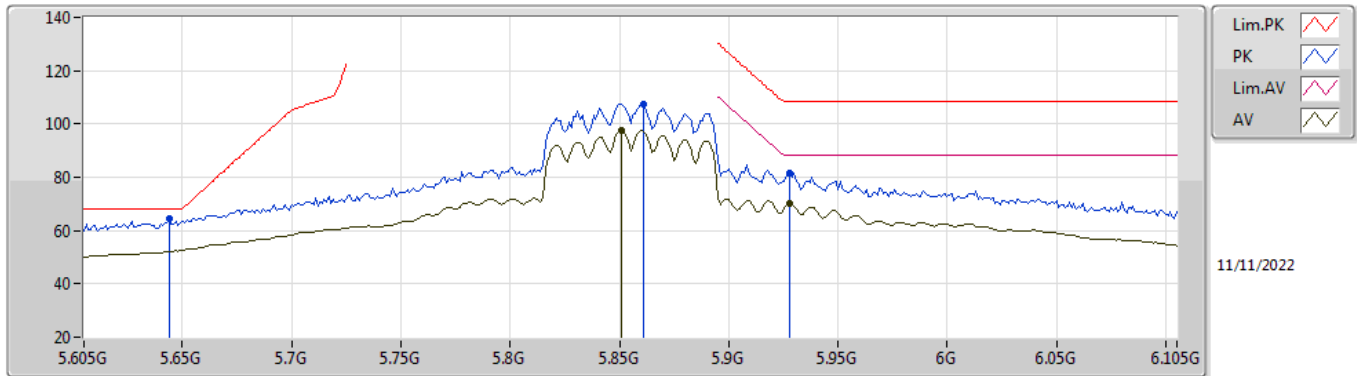


EUT\_Z\_2TX  
 Setting 23  
 05-M-B-5

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	11.75018G	54.53	74.00	-19.47	40.10	3	Horizontal	263	1.49	-	38.45	9.30	33.32
AV	11.74656G	42.20	54.00	-11.80	27.77	3	Horizontal	263	1.49	-	38.45	9.30	33.32
PK	17.62288G	59.94	108.20	-48.26	40.59	3	Horizontal	148	2.31	-	39.76	11.55	31.96
AV	17.62362G	47.19	88.20	-41.01	27.83	3	Horizontal	148	2.31	-	39.77	11.55	31.96

5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX

5855MHz\_TX

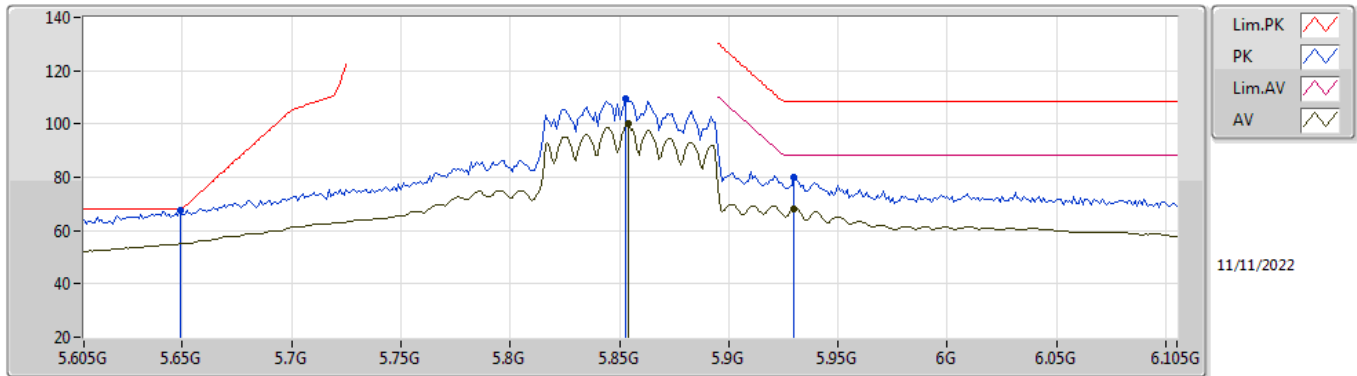


EUT Y\_2TX  
Setting 19  
05-M-B-5-10

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	5.644G	64.31	68.20	-3.89	59.43	3	Vertical	8	1.00	-	33.00	6.40	34.52
PK	5.861G	107.53	Inf	-Inf	101.75	3	Vertical	8	1.00	-	34.04	6.43	34.69
AV	5.851G	97.72	Inf	-Inf	91.97	3	Vertical	8	1.00	-	34.00	6.43	34.68
PK	5.928G	81.77	108.20	-26.43	75.85	3	Vertical	8	1.00	-	34.20	6.46	34.74
RMS	5.928G	70.19	88.20	-18.01	64.27	3	Vertical	8	1.00	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX

5855MHz\_TX

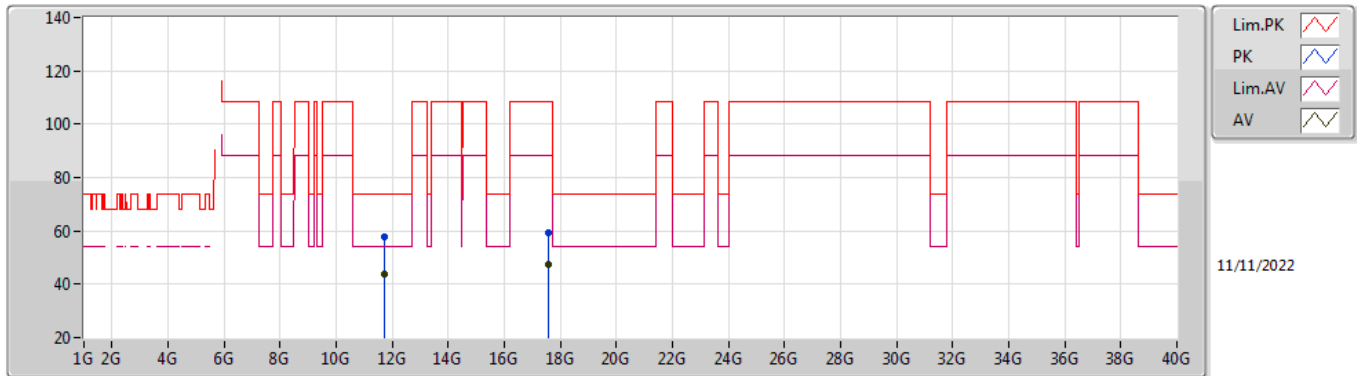


EUT Y\_2TX  
 Setting 19  
 05-M-B-5-10

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	5.649G	67.75	68.20	-0.45	62.87	3	Horizontal	66	2.26	-	33.00	6.40	34.52
PK	5.853G	109.54	Inf	-Inf	103.78	3	Horizontal	66	2.26	-	34.01	6.43	34.68
AV	5.854G	100.05	Inf	-Inf	94.28	3	Horizontal	66	2.26	-	34.02	6.43	34.68
PK	5.93G	79.79	108.20	-28.41	73.87	3	Horizontal	66	2.26	-	34.20	6.46	34.74
RMS	5.93G	68.32	88.20	-19.88	62.40	3	Horizontal	66	2.26	-	34.20	6.46	34.74

5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX

5855MHz\_TX



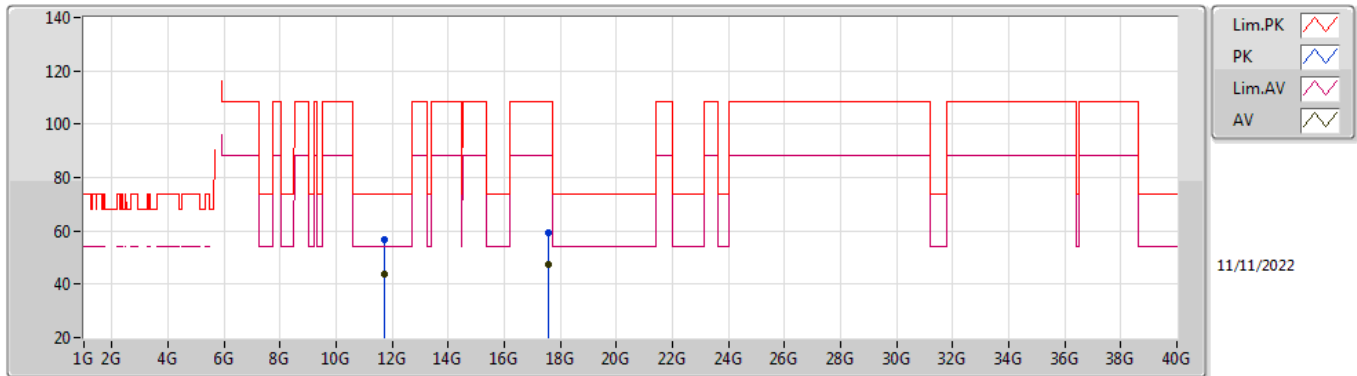
EUT\_Z\_2TX  
 Setting 19  
 05-M-B-5

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	11.70504G	57.68	74.00	-16.32	43.17	3	Vertical	310	2.34	-	38.49	9.28	33.26
AV	11.7051G	43.56	54.00	-10.44	29.05	3	Vertical	310	2.34	-	38.49	9.28	33.26
PK	17.5659G	59.44	108.20	-48.76	40.35	3	Vertical	340	1.22	-	39.43	11.53	31.87
AV	17.5637G	47.18	88.20	-41.02	28.10	3	Vertical	340	1.22	-	39.42	11.53	31.87



5.725-5.895GHz\_802.11ax HEW80\_Nss1,(MCS0)\_2TX

5855MHz\_TX

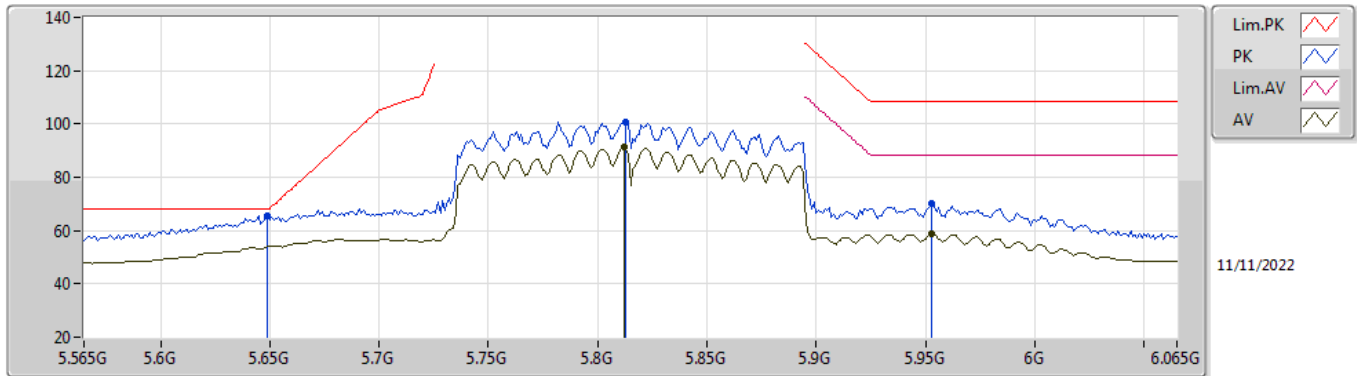


EUT\_Z\_2TX  
 Setting 19  
 05-M-B-5

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	11.7052G	56.69	74.00	-17.31	42.18	3	Horizontal	106	2.30	-	38.49	9.28	33.26
AV	11.70504G	43.71	54.00	-10.29	29.20	3	Horizontal	106	2.30	-	38.49	9.28	33.26
PK	17.56604G	59.48	108.20	-48.72	40.40	3	Horizontal	273	1.63	-	39.43	11.53	31.88
AV	17.5613G	47.16	88.20	-41.04	28.10	3	Horizontal	273	1.63	-	39.41	11.52	31.87

5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX

5815MHz\_TX

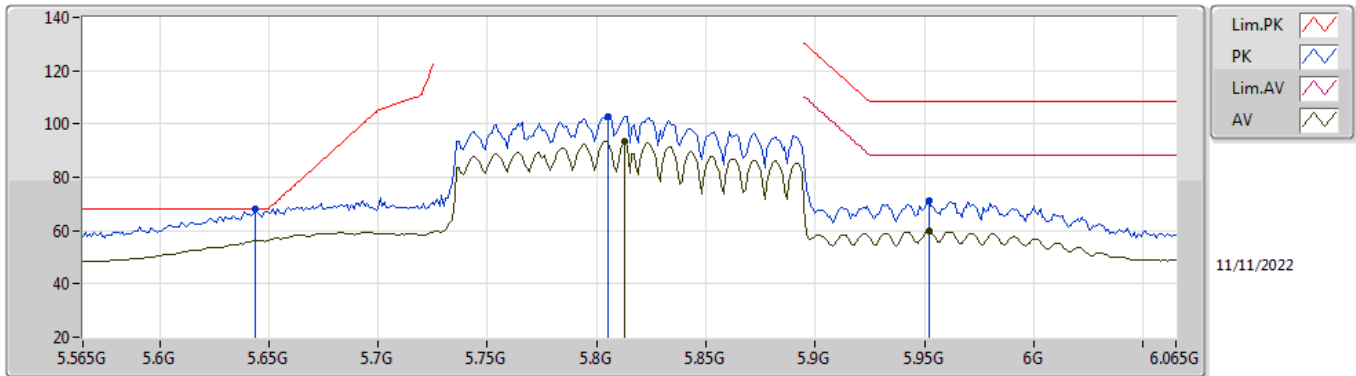


EUT\_Y\_2TX  
 Setting 15.5  
 05-M-B-5-10

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	5.649G	65.39	68.20	-2.81	60.51	3	Vertical	356	2.21	-	33.00	6.40	34.52
PK	5.813G	100.85	Inf	-Inf	95.16	3	Vertical	356	2.21	-	33.93	6.41	34.65
AV	5.812G	91.16	Inf	-Inf	85.48	3	Vertical	356	2.21	-	33.92	6.41	34.65
PK	5.953G	70.33	108.20	-37.87	64.41	3	Vertical	356	2.21	-	34.20	6.48	34.76
RMS	5.953G	58.66	88.20	-29.54	52.74	3	Vertical	356	2.21	-	34.20	6.48	34.76

5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX

5815MHz\_TX

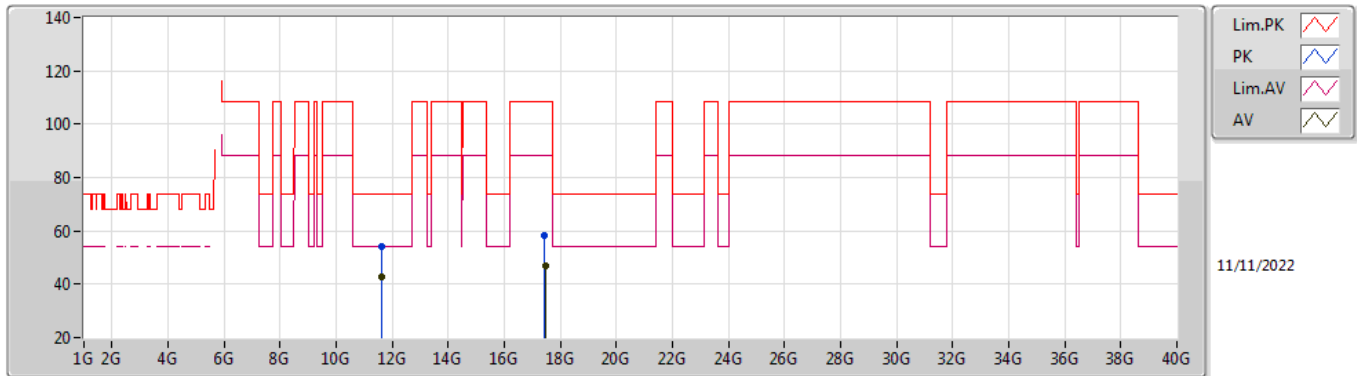


EUT Y\_2TX  
Setting 15.5  
05-M-B-5-10

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	5.644G	67.85	68.20	-0.35	62.97	3	Horizontal	77	1.97	-	33.00	6.40	34.52
PK	5.805G	102.84	Inf	-Inf	97.17	3	Horizontal	77	1.97	-	33.91	6.40	34.64
AV	5.813G	93.54	Inf	-Inf	87.85	3	Horizontal	77	1.97	-	33.93	6.41	34.65
PK	5.952G	70.99	108.20	-37.21	65.07	3	Horizontal	77	1.97	-	34.20	6.48	34.76
RMS	5.952G	59.79	88.20	-28.41	53.87	3	Horizontal	77	1.97	-	34.20	6.48	34.76

5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX

5815MHz\_TX

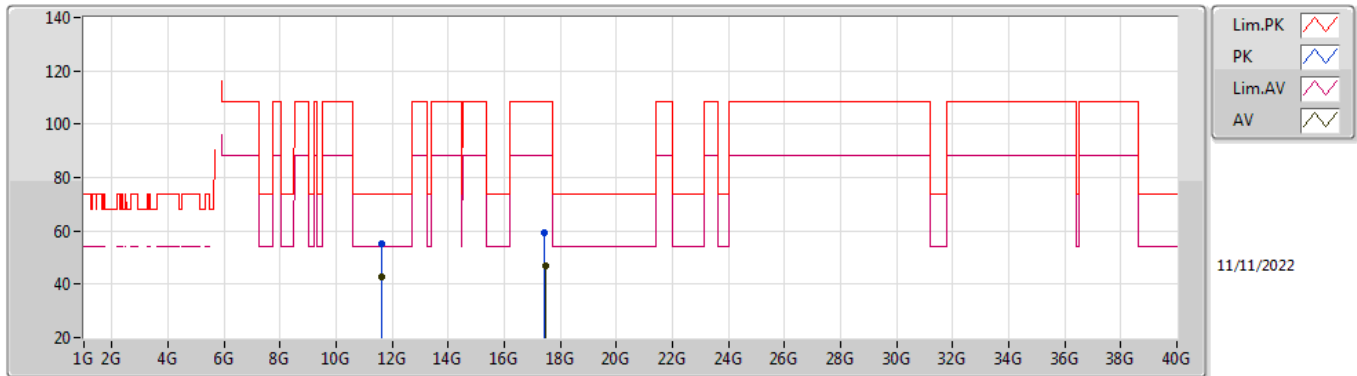


EUT\_Z\_2TX  
 Setting 15.5  
 05-M-B-5

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	11.61632G	54.31	74.00	-19.69	39.54	3	Vertical	20	1.57	-	38.67	9.25	33.15
AV	11.61962G	42.73	54.00	-11.27	27.97	3	Vertical	20	1.57	-	38.66	9.25	33.15
PK	17.43258G	58.38	108.20	-49.82	39.77	3	Vertical	110	1.64	-	38.90	11.47	31.76
AV	17.4582G	46.66	88.20	-41.54	27.98	3	Vertical	110	1.64	-	38.97	11.48	31.77

5.725-5.895GHz\_802.11ax HEW160\_Nss1,(MCS0)\_2TX

5815MHz\_TX



EUT\_Z\_2TX  
 Setting 15.5  
 05-M-B-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	11.6297G	55.29	74.00	-18.71	40.57	3	Horizontal	116	1.50	-	38.64	9.25	33.17
AV	11.62148G	42.80	54.00	-11.20	28.05	3	Horizontal	116	1.50	-	38.66	9.25	33.16
PK	17.4251G	59.49	108.20	-48.71	40.90	3	Horizontal	56	1.20	-	38.88	11.47	31.76
AV	17.4594G	46.67	88.20	-41.53	27.98	3	Horizontal	56	1.20	-	38.98	11.48	31.77