



# RADIO TEST REPORT

**FCC ID** : RSL-TQ6602GEN2  
**Equipment** : IEEE802.11ax dual-radio 5G/2.4GHz 4x4+4x4 wireless AP  
**Brand Name** : Allied Telesis  
**Model Name** : AT-TQ6602 GEN2 , AT-TQm6602 GEN2  
**Applicant** : Allied Telesis K.K  
2nd. TOC Bldg.7-21-11 Nishi-Gotanda, Shinagawa-ku  
Tokyo 1430031 Japan  
**Manufacturer** : Allied Telesis K.K  
2nd. TOC Bldg.7-21-11 Nishi-Gotanda, Shinagawa-ku  
Tokyo 1430031 Japan  
**Standard** : 47 CFR FCC Part 15.407

The product was received on Aug. 02, 2021, and testing was started from Aug. 16, 2021 and completed on Nov. 23, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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



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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	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
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HEW20	20	4TX
5.15-5.25GHz	802.11ax HEW20-BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HEW40	40	4TX
5.15-5.25GHz	802.11ax HEW40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HEW80	80	4TX
5.15-5.25GHz	802.11ax HEW80-BF	80	4TX



5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

**Note:**

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



1.1.2 Antenna Information

Ant.	Port		Brand	P/N	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	3	3	WNC	ATKK RANQ-AK72	PIFA	I-PEX	Note 1
2	4	4	WNC	ATKK RANQ-AK72	PIFA	I-PEX	
3	2	2	WNC	ATKK RANQ-AK72	PIFA	I-PEX	
4	1	1	WNC	ATKK RANQ-AK72	PIFA	I-PEX	

Note 1:

Ant.	Gain (dBi)				
	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	2.59	1.68	3.13	3.65	3.46
2	3	1.6	1.93	1.82	2.4
3	3.02	1.87	1.74	1.77	2.77
4	1.42	1.87	2.75	4.23	4.42
<b>Directional Gain (dBi) (4T1S)</b>	5.78	4.17	3.25	4.49	4.48
<b>Directional Gain (dBi) (4T2S)</b>	3.02	1.87	3.13	4.23	4.42
<b>Directional Gain (dBi) (4T4S)</b>	0.3	-1.27	-1.11	-0.39	0.18

Note 2: The above information was declared by manufacturer.

Note 3: The directional gain is measured which follows the procedure of KDB 662911 D03. The antenna report is provided in the operational description for this application.

Note 4:

**For 2.4GHz function:**

**For IEEE 802.11b/g/n/VHT/ax (4TX/4RX):**

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

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

**For 5GHz function:**

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

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

Port 1, Port 2, Pot 3 and Port 4 could transmit/receive simultaneously



**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.934	0.3	1.46m	1k
802.11ax HEW20	0.968	0.14	5.02m	300
802.11ax HEW40	0.964	0.16	5.49m	300
802.11ax HEW80	0.944	0.25	5.49m	300

Note:

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From power adapter or PoE			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming		
	For 802.11n/ax/VHT in 2.4GHz, 802.11n/ac/ax in 5GHz.			
<b>Function</b>	<input type="checkbox"/> Outdoor P2M	<input checked="" type="checkbox"/> Indoor P2M		
	<input type="checkbox"/> Fixed P2P	<input type="checkbox"/> Client		
<b>Test Software Version</b>	QLibDemo-MSVC10_Txpower.exe			

Note: The above information was declared by manufacturer.

**1.1.5 Table for Multiple Listing**

Model Name	Description
AT-TQ6602 GEN2	All the models are identical; different models serve as marketing strategy.
AT-TQm6602 GEN2	

Note 1: From the above models, model: AT-TQ6602 GEN2 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.





### 1.2 Applicable Standards

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

- ◆ 47 CFR FCC Part 15
- ◆ ANSI C63.10-2013
- ◆ FCC KDB 789033 D02 v02r01

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

- ◆ FCC KDB 662911 D03 v01
- ◆ FCC KDB 412172 D01 v01r01
- ◆ FCC KDB 414788 D01 v01r01

### 1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	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	TH01-CB	Brian Sun	21.2~21.4 / 55~61	Oct. 04, 2021~ Nov. 09, 2021
Radiated (Below 1GHz)	10CH01-CB	Wei Li	22~24 / 54~58	Aug. 17, 2021~ Nov. 23, 2021
Radiated (Above1GHz)	03CH02-CB	Simmon Chang	24.4-25.5 / 55-58	Oct. 01, 2021~ Oct. 04, 2021
Radiated (Radiated Emission Co-location)	03CH01-CB	Simmon Chang	23.9-24.2 / 56-59	Nov. 18, 2021
AC Conduction	CO01-CB	Wei Li	23~24 / 56~59	Aug. 16, 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
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
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

For non-beamforming mode:

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	21
5200MHz	24
5240MHz	22
5745MHz	21.5
5785MHz	24
5825MHz	24
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5180MHz	20.5
5200MHz	24
5240MHz	22
5745MHz	21.5
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	21
5795MHz	24
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5210MHz	17.5
5775MHz	19.5



For beamforming mode:

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5180MHz	20.5
5200MHz	24
5240MHz	22
5745MHz	21.5
5785MHz	24
5825MHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5190MHz	17.5
5230MHz	21.5
5755MHz	21
5795MHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5210MHz	17.5
5775MHz	19.5

Note:

- ♦ HEW20/HEW40/HEW80 covers HT20/HT40/VHT20/VHT40/VHT80, due to similar modulation. The power setting for HT20/HT40/VHT20/VHT40/VHT80 are the same or lower than HEW20/HEW40/HEW80
- ♦ 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>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	Normal Link
1	Normal Link - EUT + Adapter
2	Normal Link - EUT + PoE 2
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emission Bandwidth Maximum Output Power 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 &lt; 1GHz</b>	Normal Link
1	Normal Link: EUT in Z axis + Adapter
2	Normal Link: EUT in Y axis + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	Normal Link: EUT in Z axis + PoE 2
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	Normal Link: EUT in X axis + PoE 2
For operating mode 3 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
The EUT was performed at X axis, Y axis and Z axis position. The worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z axis



<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Radiated Emission Co-location
<b>Test Condition</b>	Radiated measurement
<b>Operating Mode</b>	Normal Link
The EUT was performed at X axis, Y axis and Z axis position from Emissions in Restricted Frequency Bands above 1GHz. The worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z axis-WLAN 2.4GHz+WLAN 5GHz
Refer to Appendix F for Radiated Emission Co-location.	

<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA152531-01 for Co-location RF Exposure Evaluation.	

Note: The Adapter and PoE was for measurement only, would not be marketed.  
The detail information as below

<b>Support Unit</b>	<b>Brand</b>	<b>Model Name</b>
Adapter	APD	DA-48Z12
PoE 1	Symbol	PD-9001GR/AT/AC
PoE 2	DELTA	ADP-60HR B

### 2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

### 2.4 Accessories

Wall-mounted rack\*1



## 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	5G LAN1 PC	DELL	T3400	N/A
B	5G LAN2 PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	Adapter	APD	DA-48Z12	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	DELTA	ADP-60HR B	N/A
B	5G LAN1 PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	5G LAN2 PC	DELL	T3400	N/A

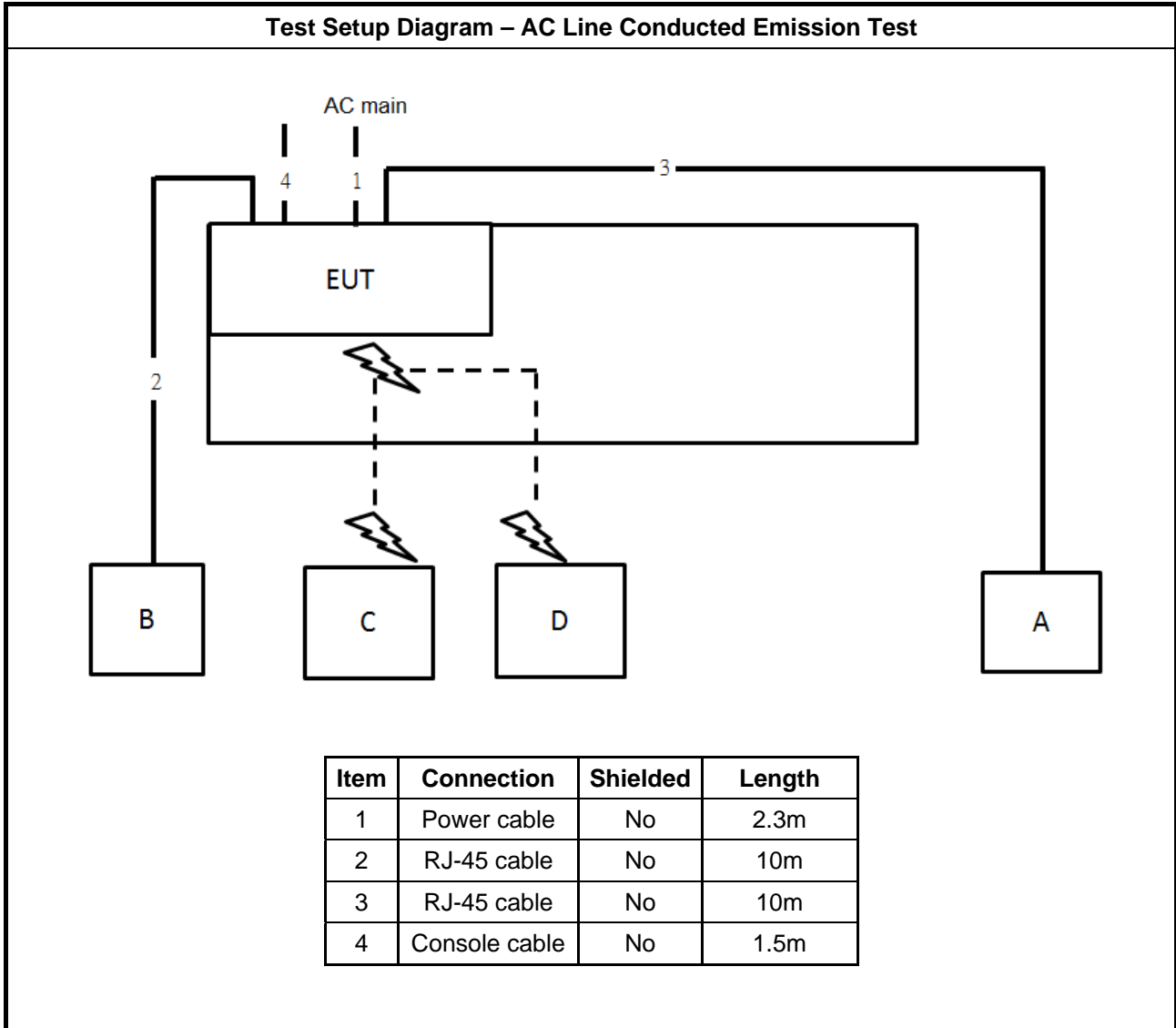
For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Symbol	PD-9001GR/AT/AC	N/A

For Radiated (Radiated Emission Co-location):

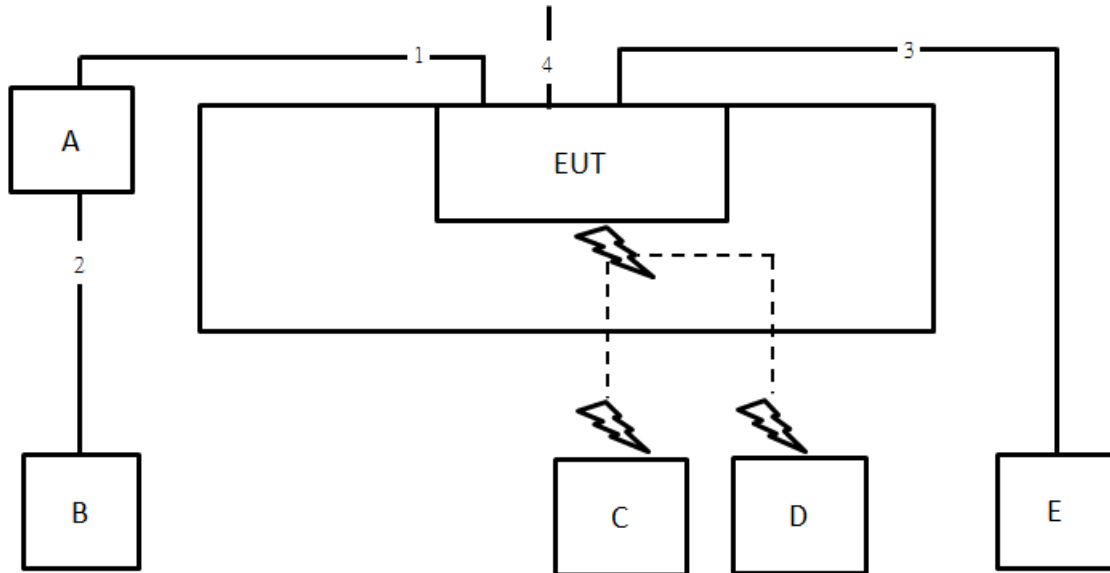
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	PoE	Symbol	PD-9001GR/AT/AC	N/A
C	NB	DELL	E4300	N/A
D	NB	DELL	E4300	N/A

## 2.6 Test Setup Diagram



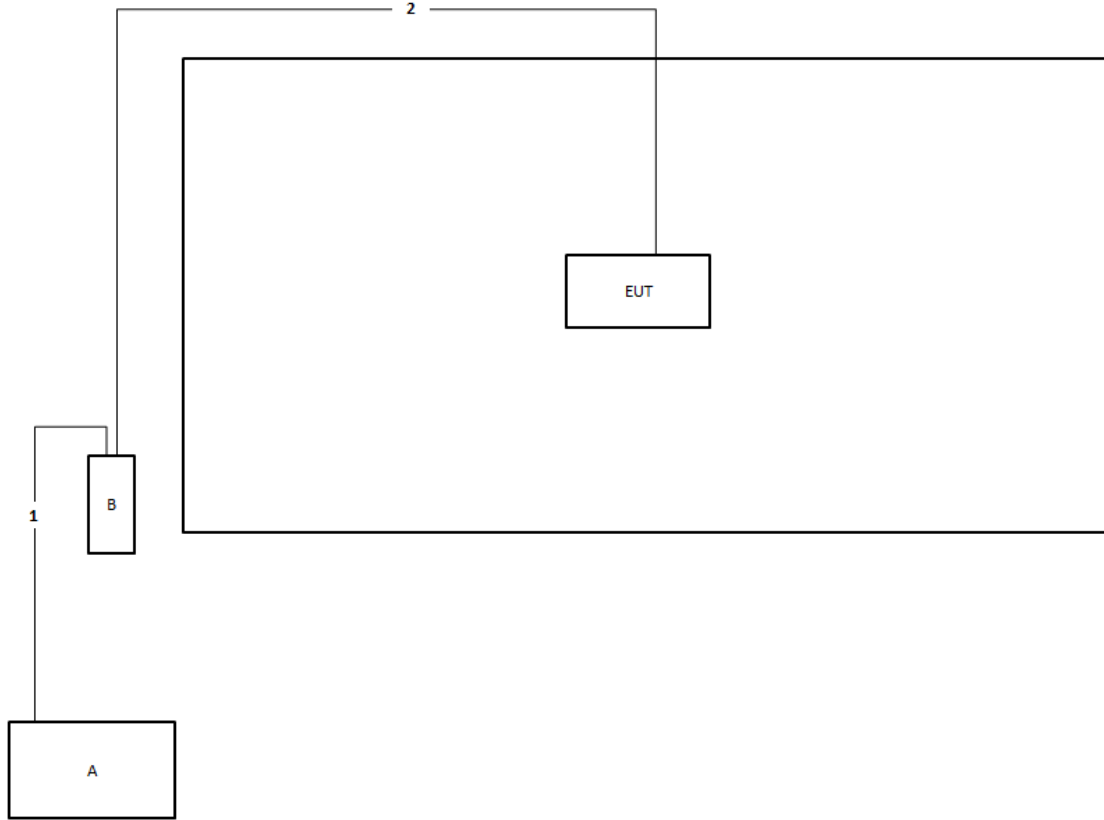


**Test Setup Diagram - Radiated Test < 1GHz**



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

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



Item	Connection	Shielded	Length
1	RJ-45 cable	No	0.5m
2	RJ-45 cable	No	10m



### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

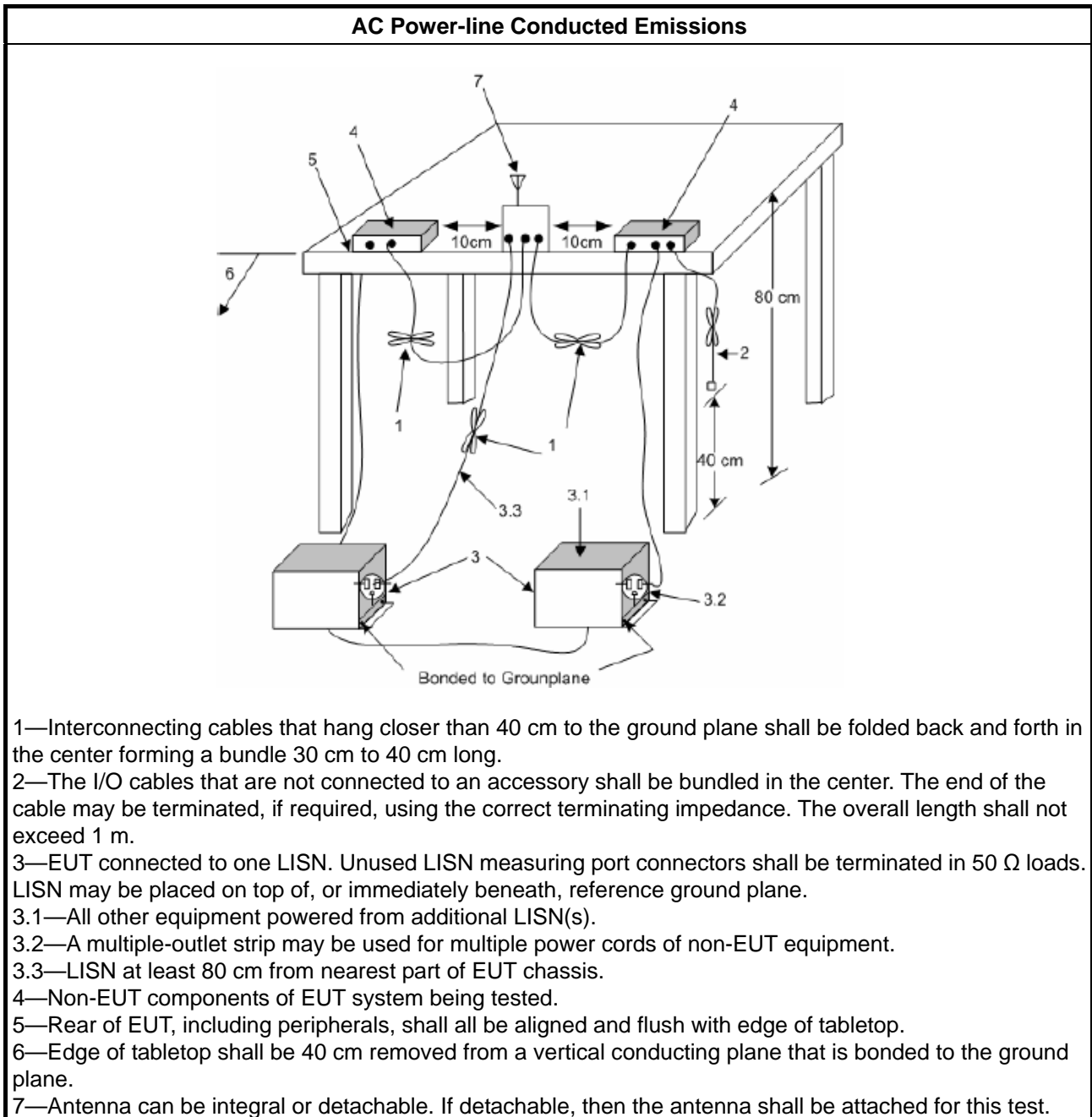
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

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

Refer as Appendix A

### 3.2 Emission Bandwidth

#### 3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
<b>UNII Devices</b>	
<input checked="" 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 ≥ 500kHz.
<input type="checkbox"/>	For the 5.85-5.895 GHz band, 6 dB emission bandwidth ≥ 500kHz.
<b>LE-LAN Devices</b>	
<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 ≥ 500kHz.

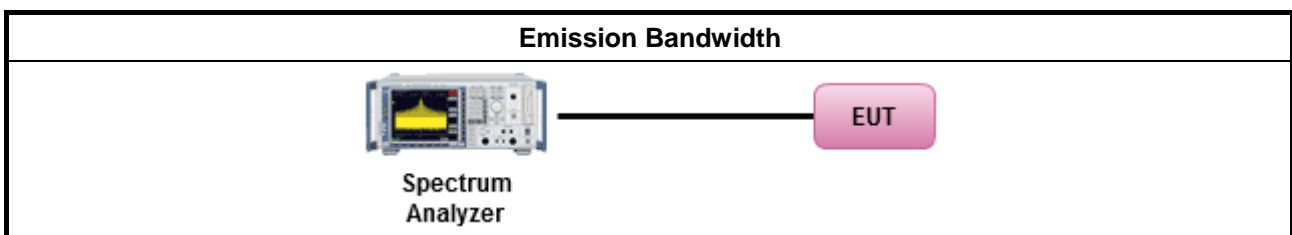
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method	
<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.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Output Power

#### 3.3.1 Limit

<b>Maximum Output Power Limit</b>	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125</math>mW [21dBm]</li> <li>▪ Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>▪ Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul>
<input 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"> <li>▪ Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>
<b>Maximum EIRP Limit</b>	
<input type="checkbox"/> For the 5.85-5.895 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Indoor AP &amp; subordinate device &lt; 36 dBm</li> <li>▪ Client device &lt; 30 dBm</li> </ul>
<b>LE-LAN Devices</b>	
<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"> <li>▪ Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>

lesser of 1 W.

$P_{Out}$  = maximum conducted output power in dBm,  
 $G_{TX}$  = the maximum transmitting antenna directional gain in dBi.

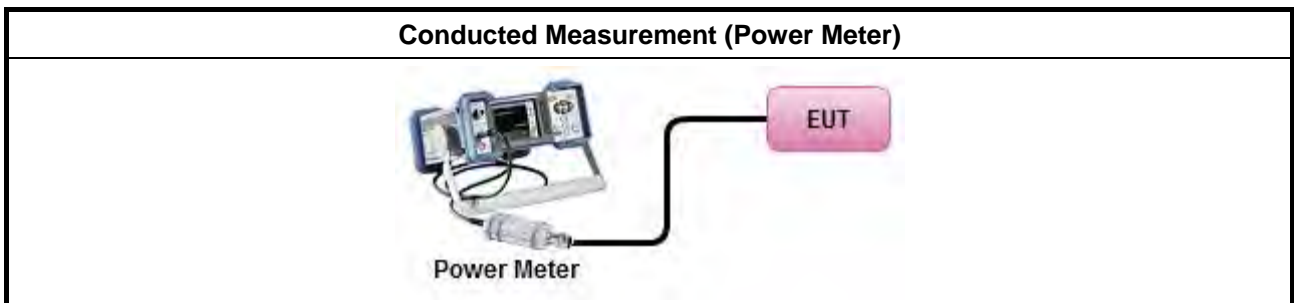
### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

Test Method	
	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.
	<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.
	<ul style="list-style-type: none"> <li>Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"</li> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> <li>Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.</li> </ul>

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Output Power

Refer as Appendix C



### 3.4 Power Spectral Density

#### 3.4.1 Limit

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





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.

**3.4.2 Measuring Instruments**

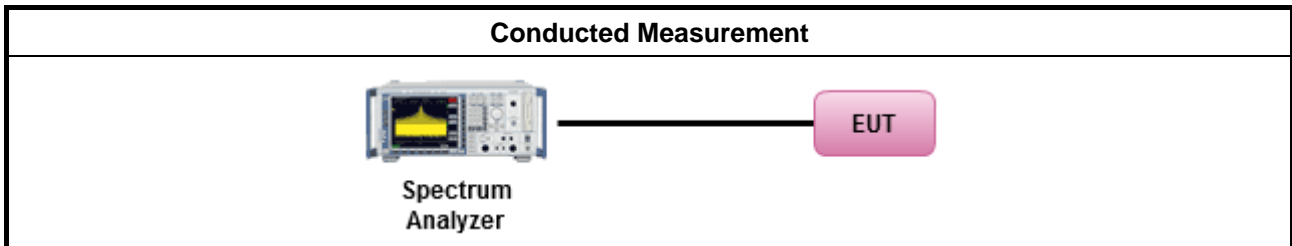
Refer a test equipment and calibration data table in this test report.

**3.4.3 Test Procedures**

Test Method	
	<ul style="list-style-type: none"> <li>▪ 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 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"> <li>▪ 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])</li> </ul>

Test Method	
	$EIRP_{total} = PPSD_{total} + DG$
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> <li>Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"</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>Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.</li> </ul>

**3.4.4 Test Setup**



**3.4.5 Test Result of Power Spectral Density**

Refer as Appendix D



### 3.5 Unwanted Emissions

#### 3.5.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input checked="" 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 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>	

**3.5.2 Measuring Instruments**

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

**3.5.3 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:               <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td> <ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.</li> <li>▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.</li> </ul> </td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).</td> </tr> <tr> <td><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><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.</td> </tr> </table> </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> <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>▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.</li> <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.               <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td> <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> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul> </td> </tr> </table> </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> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</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> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> <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>														

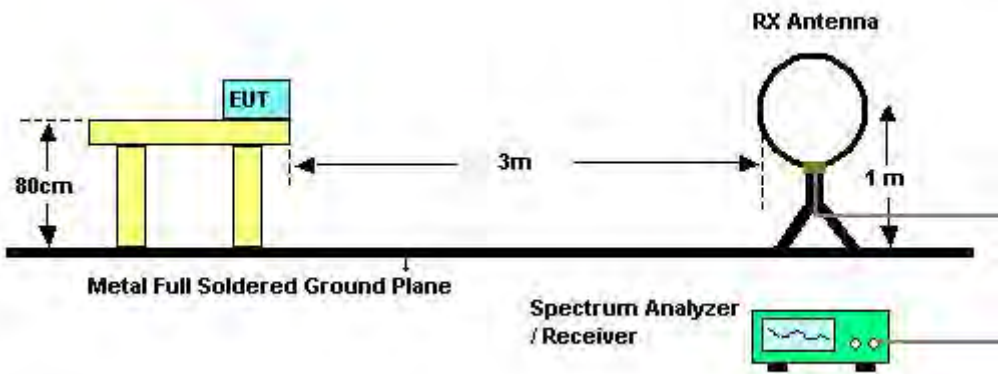
**Test Method**

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

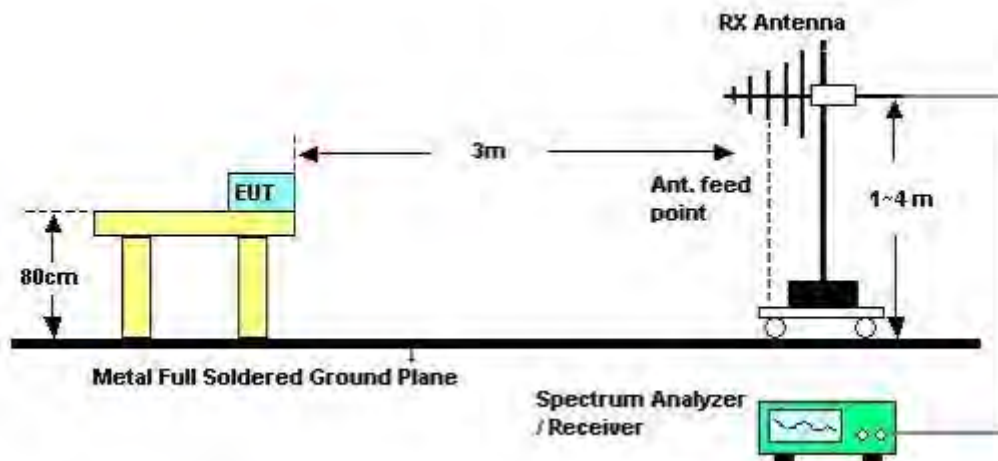
**3.5.4 Test Setup**

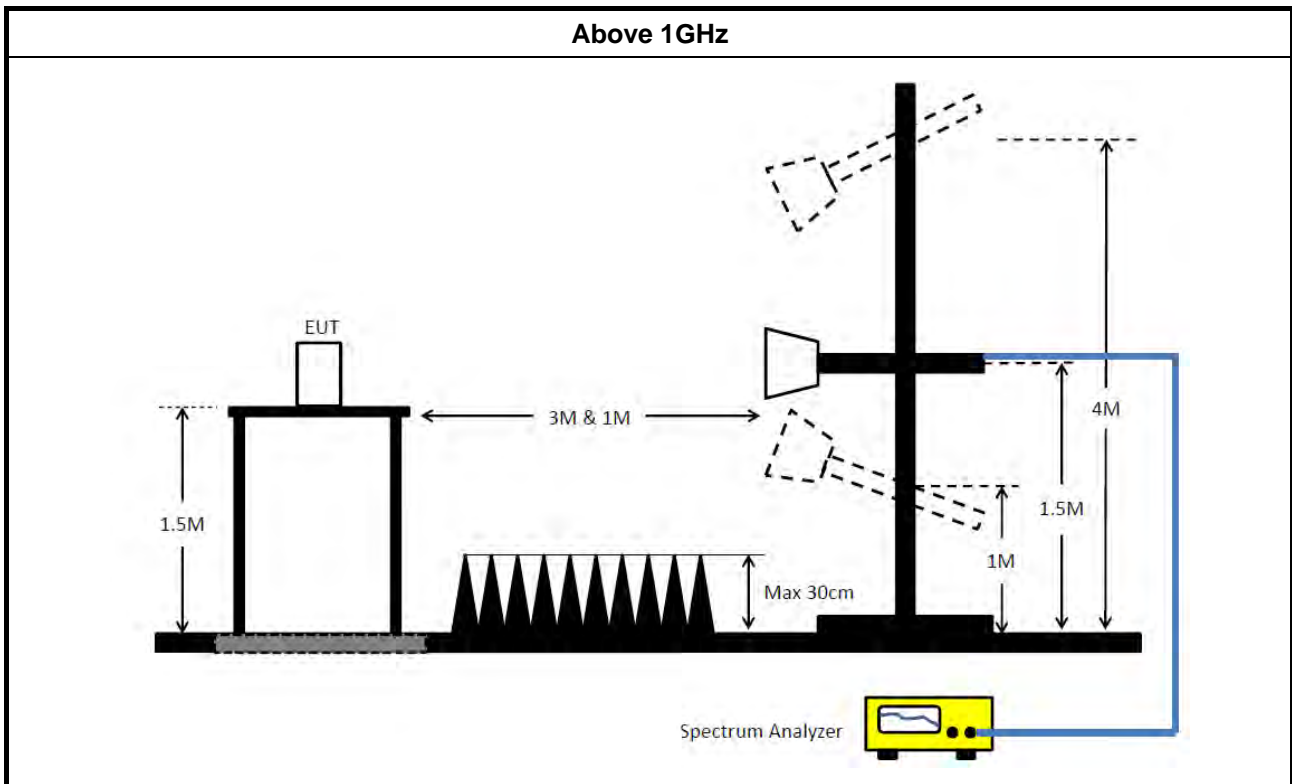
**Transmitter Radiated Unwanted Emissions**

**9kHz ~30MHz**



**30MHz~1GHz**





**3.5.5 Measurement Results Calculation**

The measured Level is calculated using:

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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

**3.5.7 Test Result of Transmitter Unwanted Emissions**

Refer as Appendix E



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 28, 2021	Jan. 27, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 11, 2021	Mar. 10, 2022	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 19, 2021	Oct. 18, 2022	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 20, 2020	Oct. 19, 2021	Radiation (10CH01-CB)
High Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 19, 2021	Oct. 18, 2022	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Chase & EMCI	CBL6111A &N-6-06	1543 &AT-N0609	30MHz ~ 1GHz	Jul. 01, 2021	Jun. 30, 2022	Radiation (10CH01-CB)
EMI Test Receiver	Rohde& Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde& Schwarz	FSV30	101026	9kHz ~ 30GHz	Mar. 08, 2021	Mar. 07, 2022	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (10CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 07, 2021	May 06, 2022	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 14, 2021	Sep. 13, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 20, 2021	May 19, 2022	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 03, 2021	May 02, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)





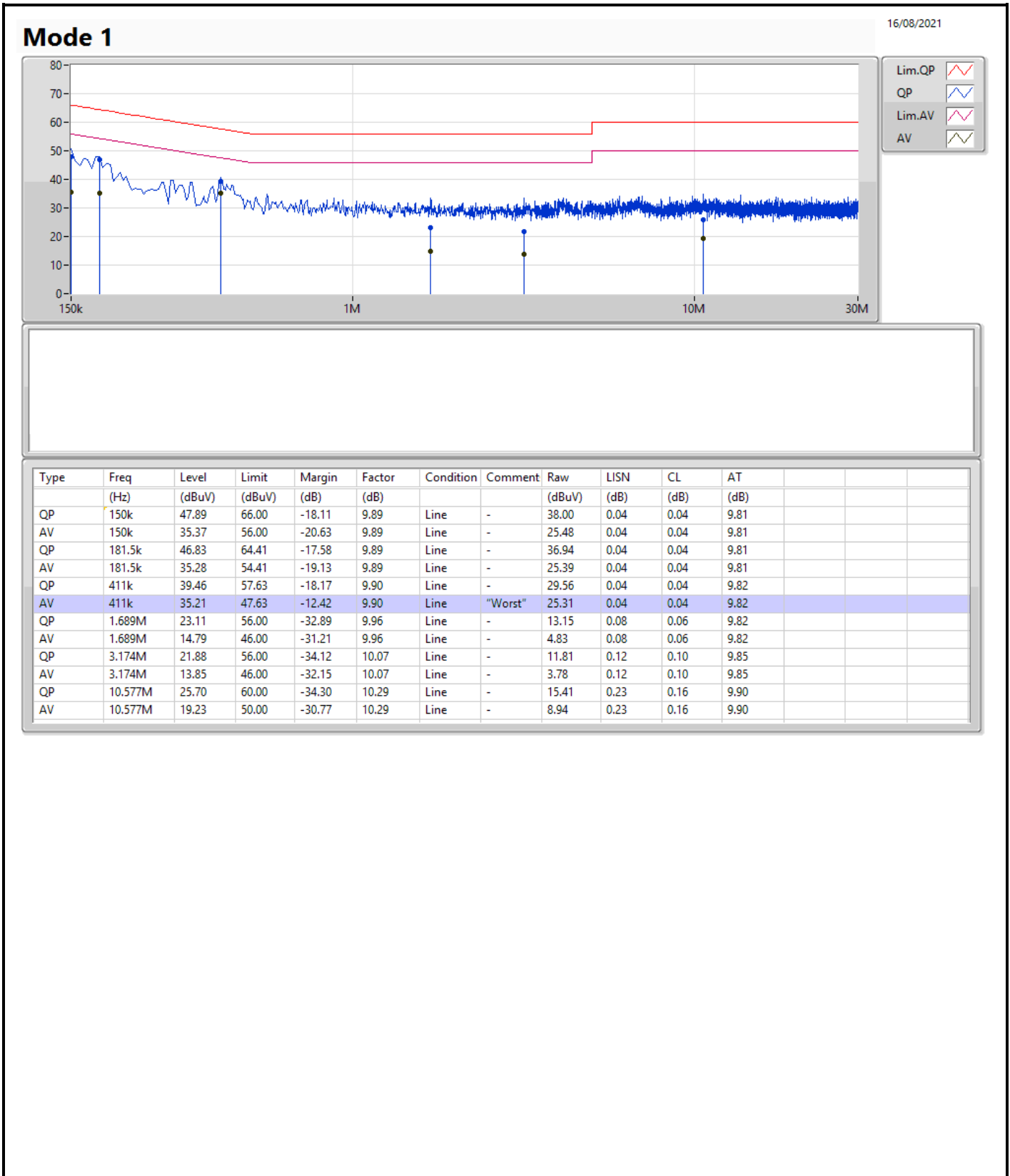
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 23, 2021	Feb. 22, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

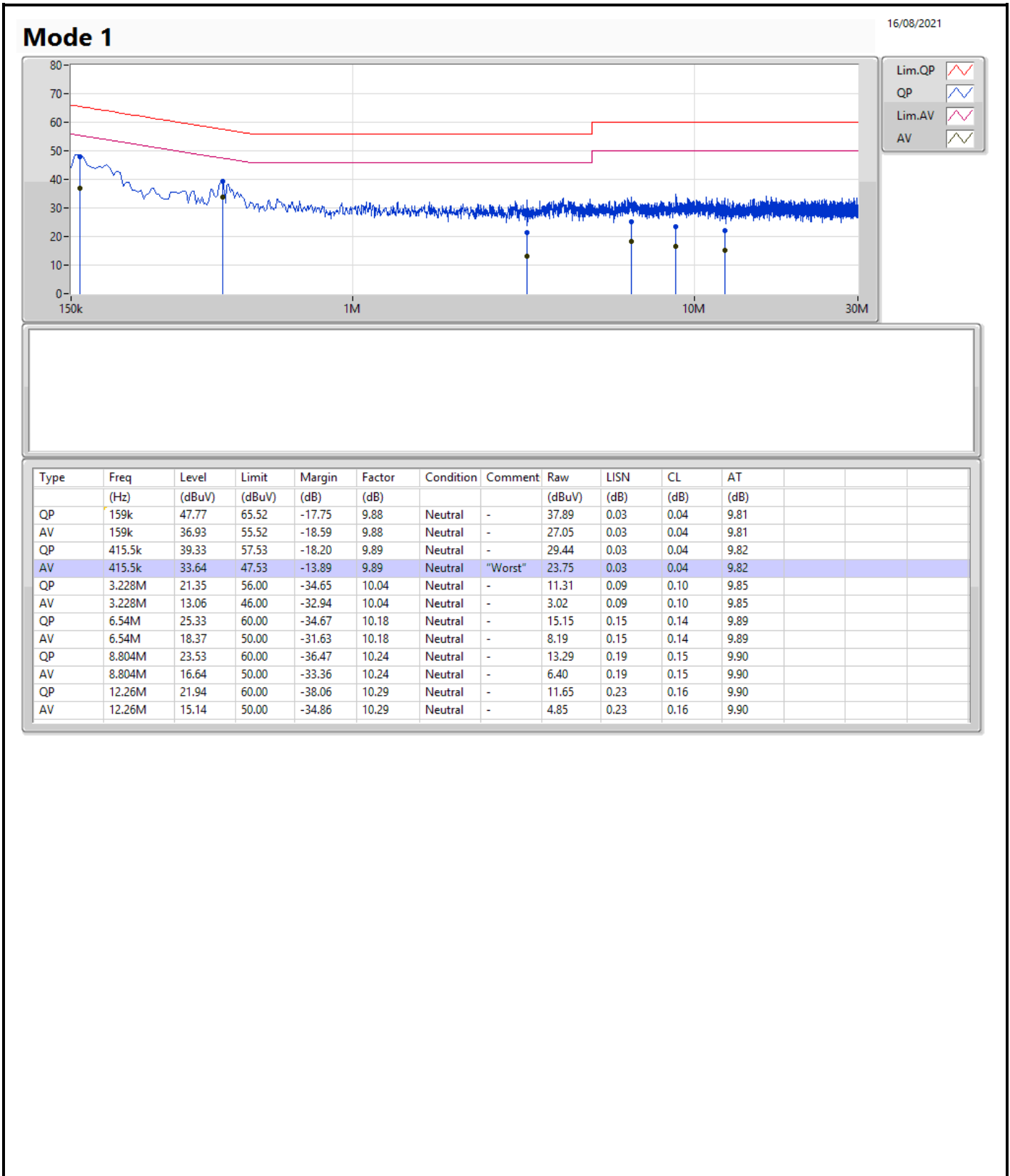
Note: Calibration Interval of instruments listed above is one year.  
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	411k	35.21	47.63	-12.42	Line





**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	42.63M	29.085M	29M1D1D	20.64M	16.432M
802.11ax HEW20_Nss1,(MCS0)_4TX	47.01M	27.826M	27M8D1D	21.33M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	74.7M	39.94M	39M9D1D	40.74M	37.841M
802.11ax HEW80_Nss1,(MCS0)_4TX	83.04M	77.601M	77M6D1D	81.84M	77.361M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.32M	30.375M	30M4D1D	15.06M	17.271M
802.11ax HEW20_Nss1,(MCS0)_4TX	19.05M	30.525M	30M5D1D	17.58M	19.31M
802.11ax HEW40_Nss1,(MCS0)_4TX	38.16M	59.07M	59M1D1D	35.4M	38.981M
802.11ax HEW80_Nss1,(MCS0)_4TX	76.2M	78.201M	78M2D1D	74.52M	77.721M

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	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	24.9M	16.612M	23.91M	16.702M	24.57M	16.582M	20.64M	16.432M
5200MHz	Pass	Inf	39.54M	25.457M	39.69M	22.999M	42.63M	29.085M	39.48M	24.858M
5240MHz	Pass	Inf	33.42M	17.121M	34.83M	17.781M	33.93M	18.111M	26.94M	17.061M
5745MHz	Pass	500k	15.42M	17.271M	16.02M	17.271M	15.06M	20.06M	15.36M	20.84M
5785MHz	Pass	500k	15.42M	29.775M	16.29M	27.496M	15.69M	29.625M	15.66M	26.987M
5825MHz	Pass	500k	16.32M	27.076M	16.32M	27.856M	15.72M	30.375M	15.36M	27.946M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.88M	18.891M	23.58M	19.07M	23.55M	18.951M	21.33M	18.921M
5200MHz	Pass	Inf	46.89M	22.549M	41.52M	20.06M	47.01M	27.826M	43.11M	22.879M
5240MHz	Pass	Inf	34.77M	19.28M	33.78M	19.28M	31.05M	19.25M	33.81M	19.25M
5745MHz	Pass	500k	18.75M	19.7M	18.66M	19.31M	17.91M	24.528M	18.06M	20.81M
5785MHz	Pass	500k	18.03M	28.726M	18.81M	26.957M	17.58M	28.006M	19.05M	27.076M
5825MHz	Pass	500k	18.63M	24.168M	18.75M	25.757M	18.6M	30.525M	19.02M	25.187M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.04M	38.141M	40.74M	37.901M	41.22M	38.081M	40.86M	37.841M
5230MHz	Pass	Inf	64.02M	38.741M	74.7M	39.4M	73.74M	39.94M	66.3M	38.381M
5755MHz	Pass	500k	36.54M	39.58M	37.86M	38.981M	36.06M	54.513M	36.48M	49.295M
5795MHz	Pass	500k	35.88M	53.253M	38.16M	53.853M	38.04M	59.07M	35.4M	55.232M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.68M	77.601M	82.2M	77.481M	83.04M	77.361M	81.84M	77.361M
5775MHz	Pass	500k	75.36M	77.721M	74.64M	77.841M	76.2M	78.201M	74.52M	77.841M

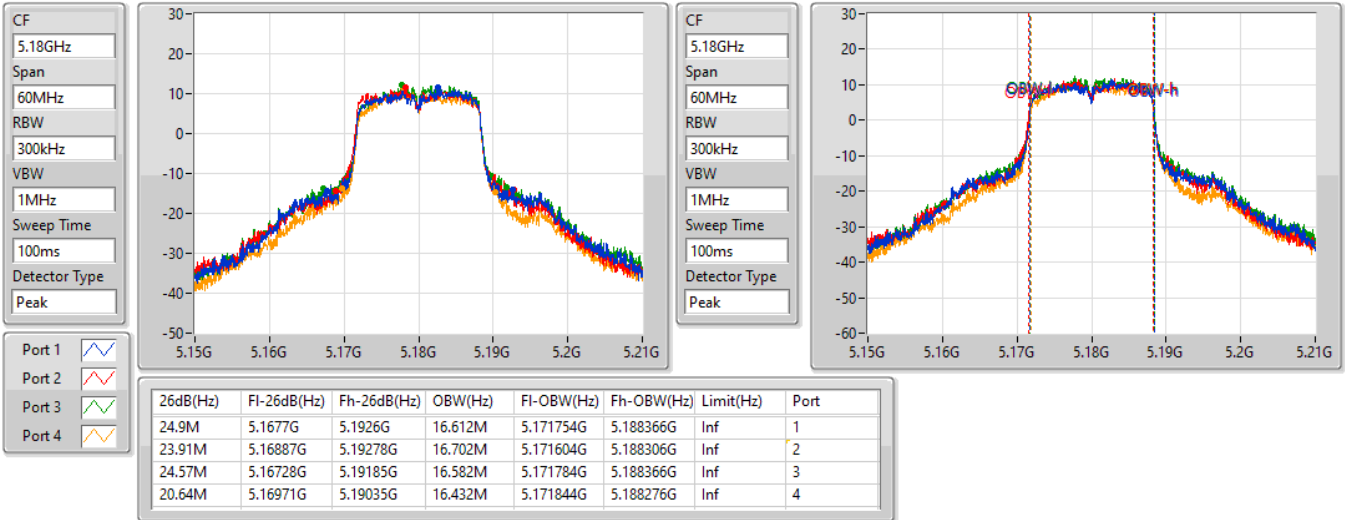
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
 Port X-OBW = Port X 99% occupied bandwidth

802.11a\_Nss1,(6Mbps)\_4TX

EBW

5180MHz

04/10/2021

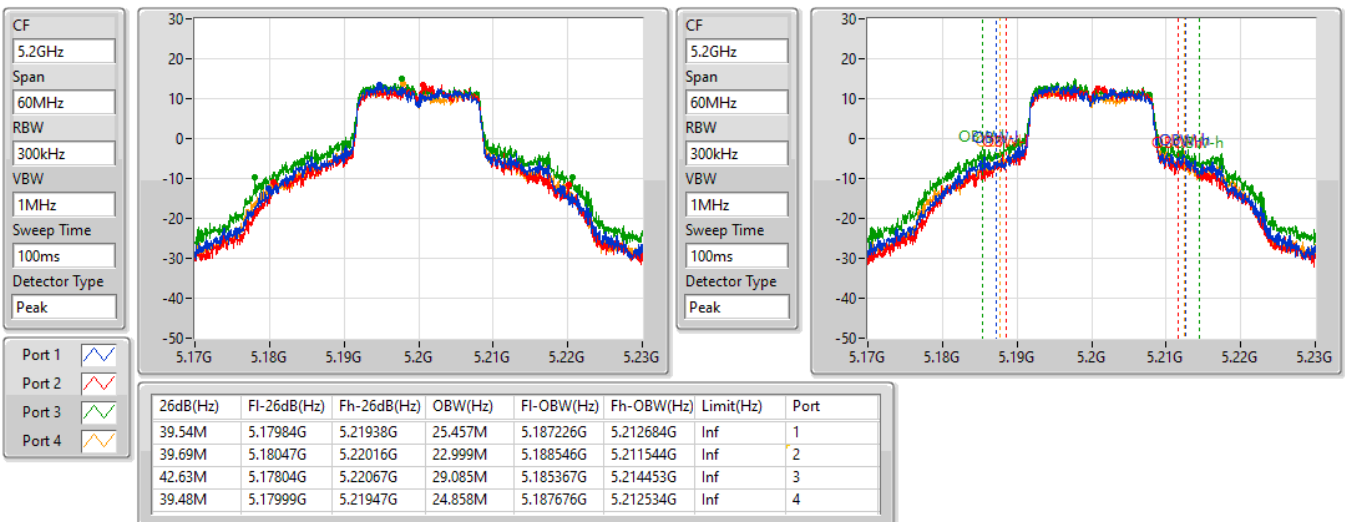


802.11a\_Nss1,(6Mbps)\_4TX

EBW

5200MHz

04/10/2021

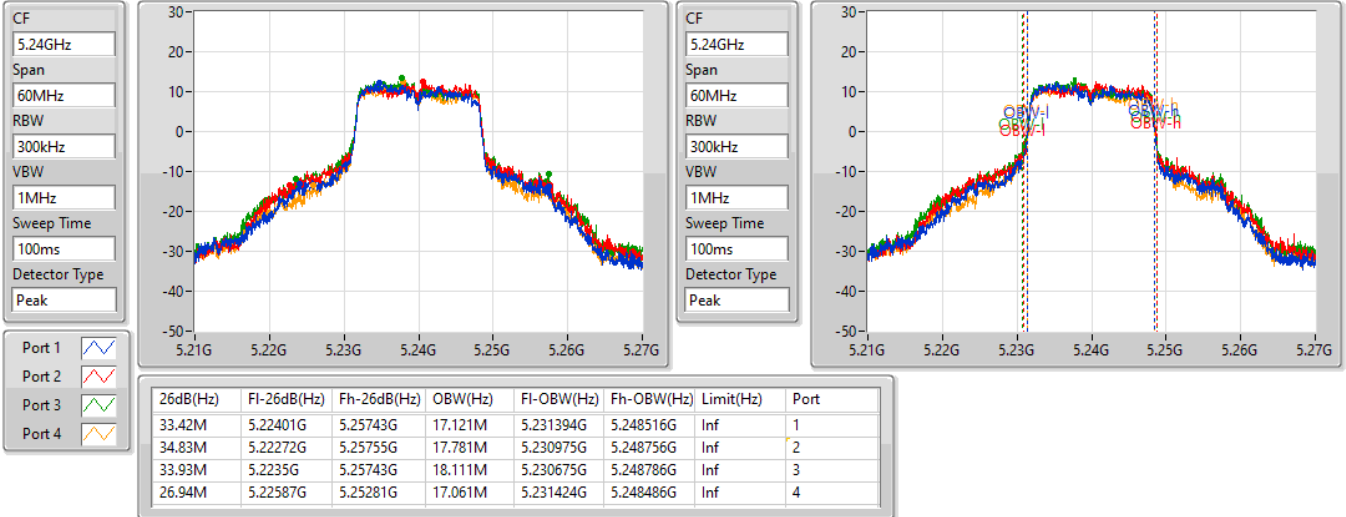


### 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5240MHz

04/10/2021

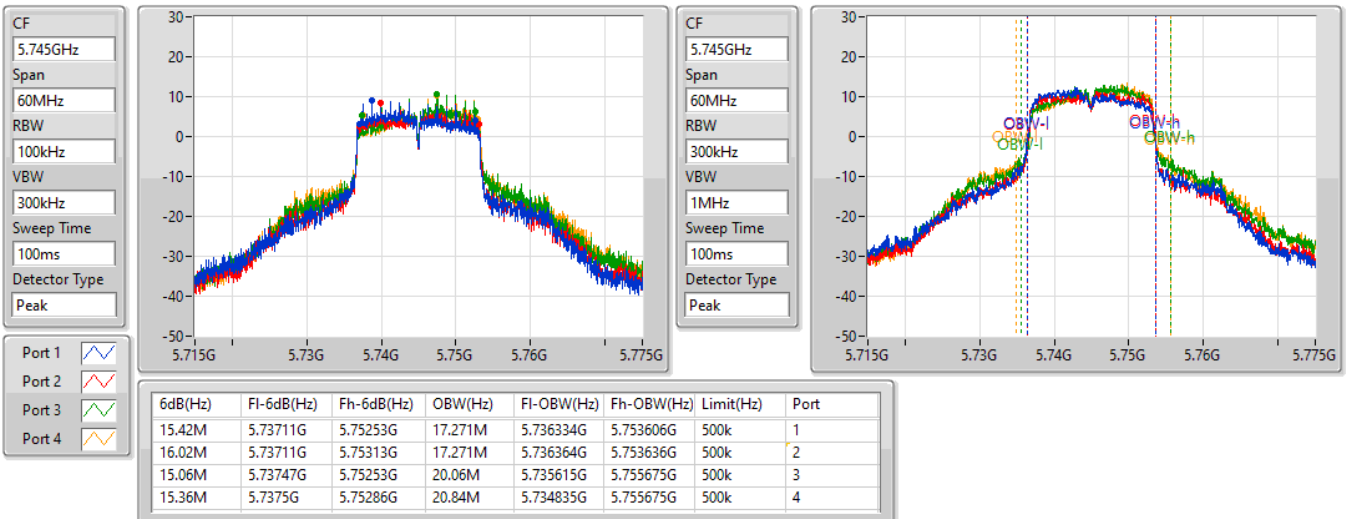


### 802.11a\_Nss1,(6Mbps)\_4TX

EBW

5745MHz

04/10/2021



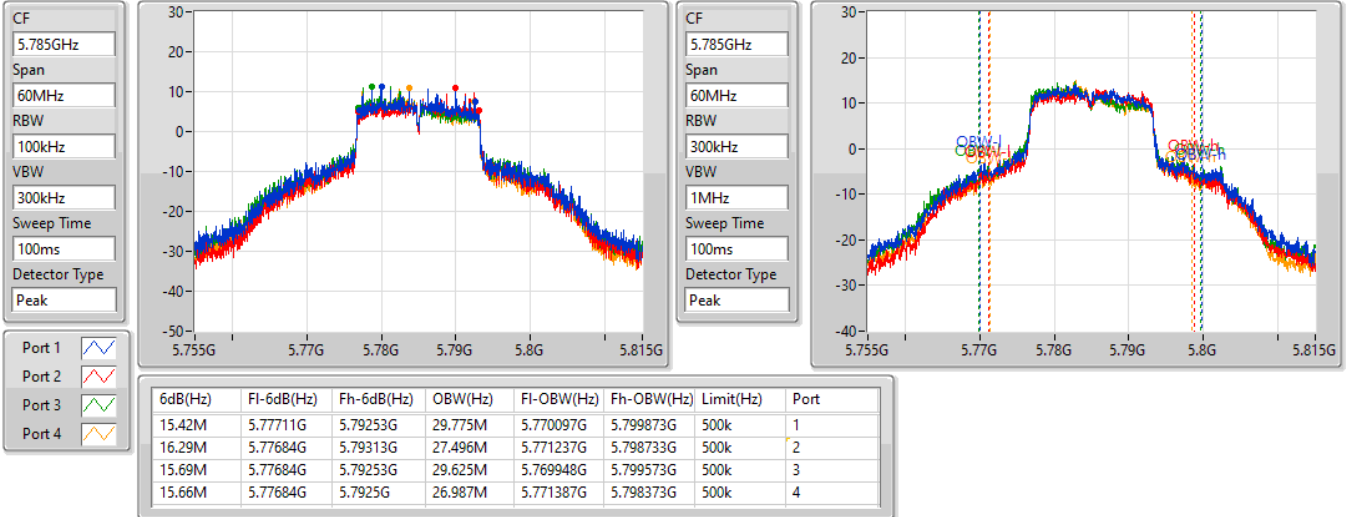


802.11a\_Nss1,(6Mbps)\_4TX

EBW

5785MHz

04/10/2021

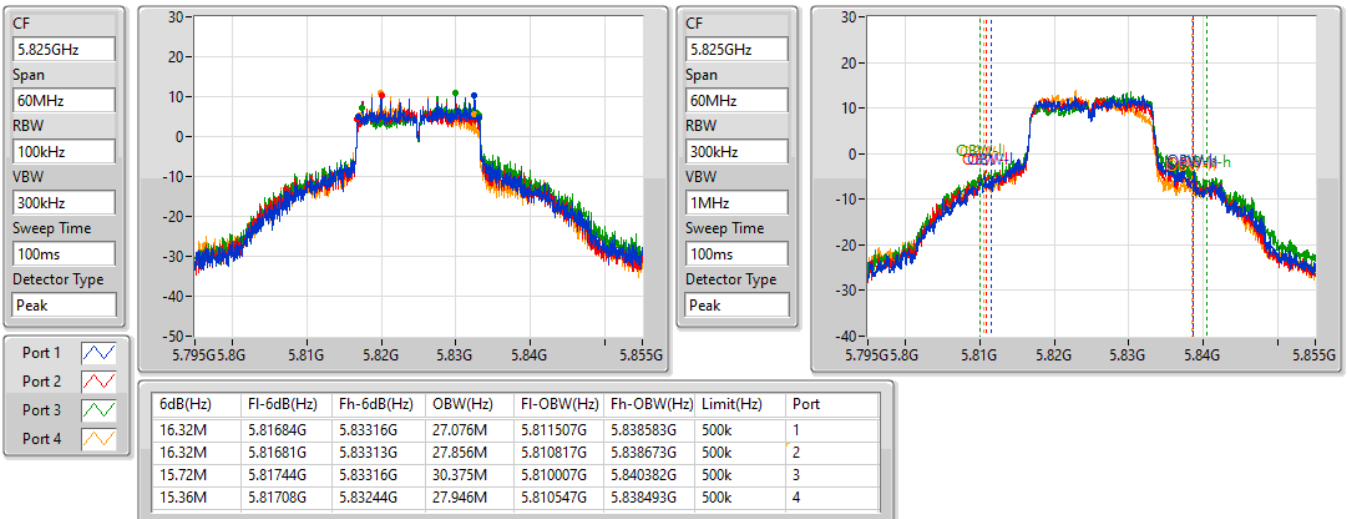


802.11a\_Nss1,(6Mbps)\_4TX

EBW

5825MHz

04/10/2021

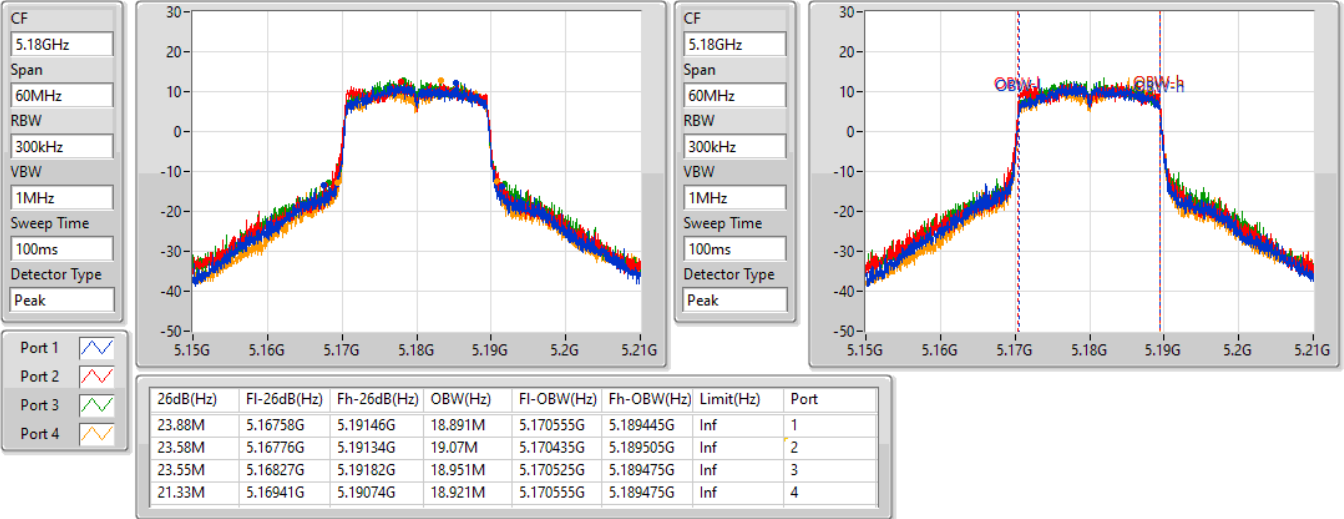


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5180MHz

04/10/2021

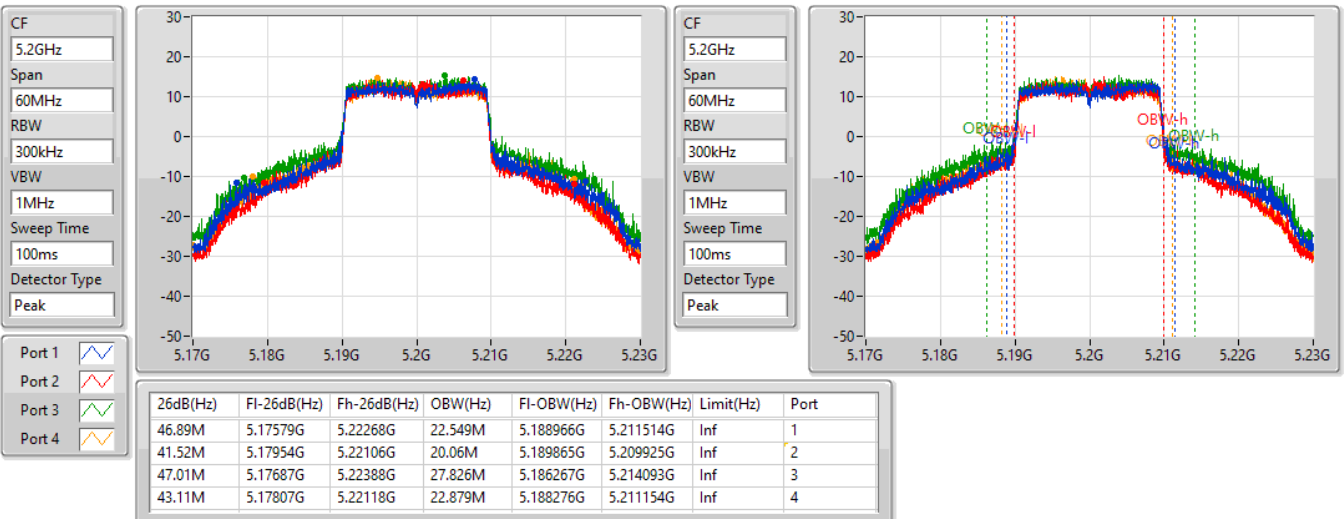


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5200MHz

04/10/2021

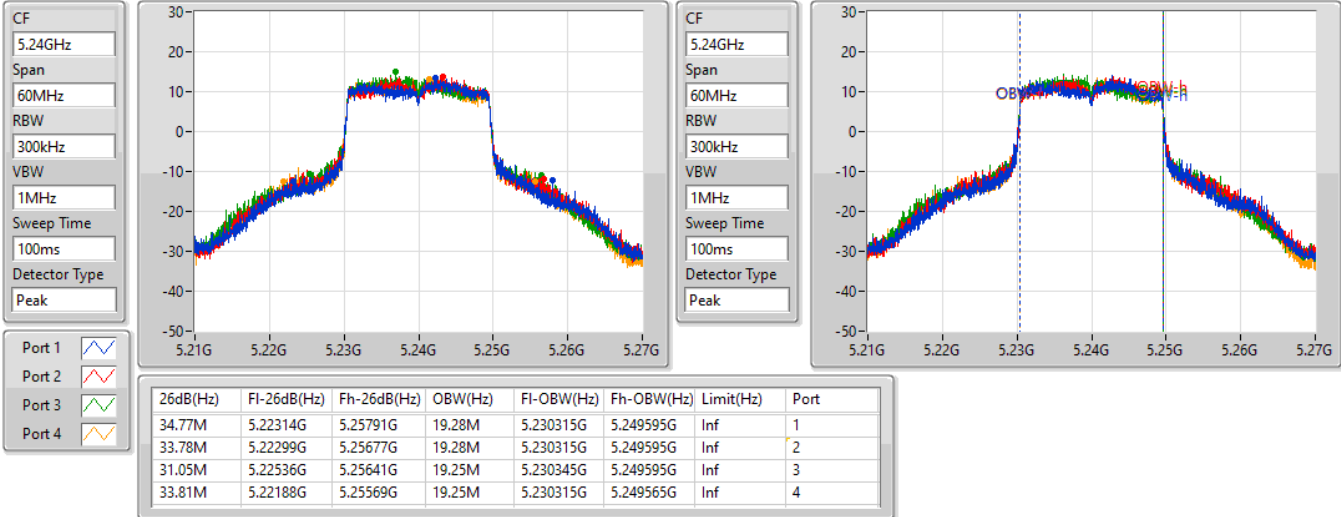


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5240MHz

04/10/2021

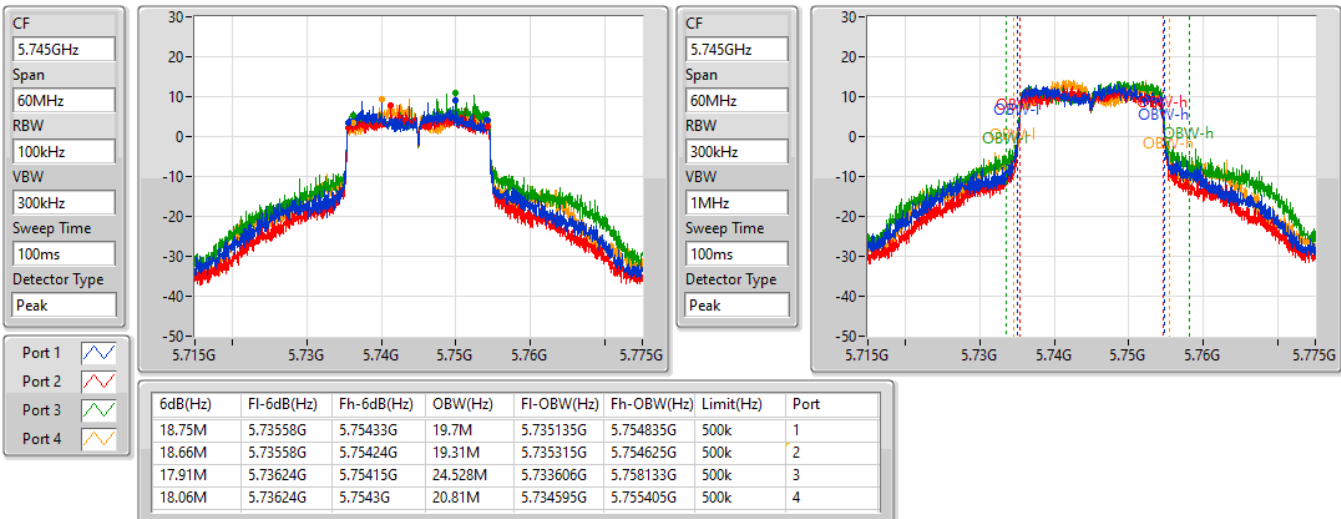


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5745MHz

04/10/2021

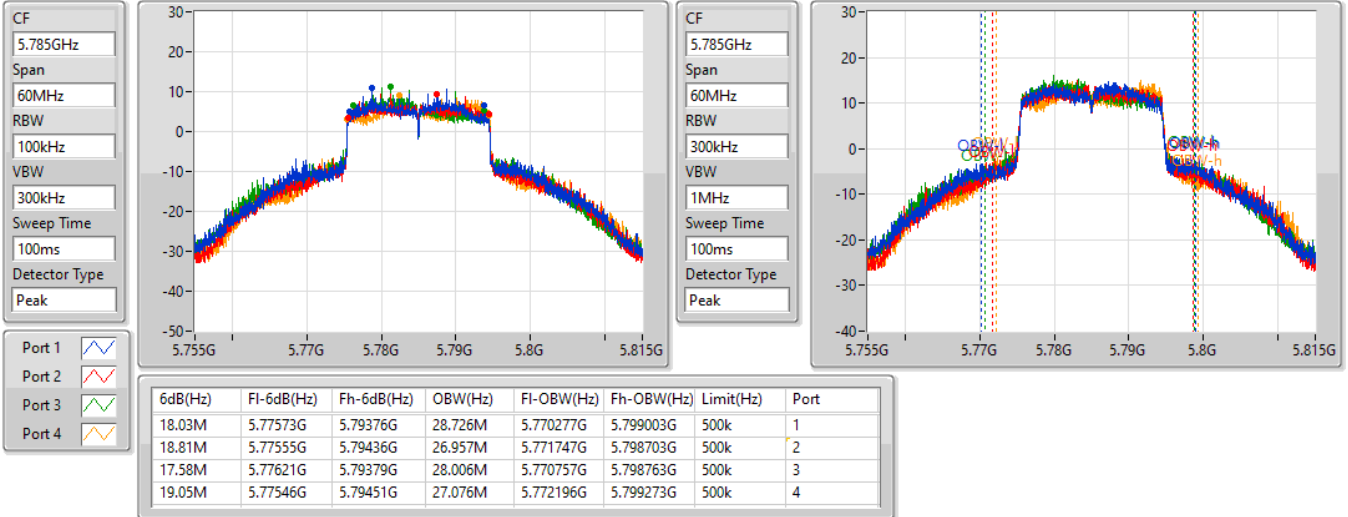


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5785MHz

04/10/2021

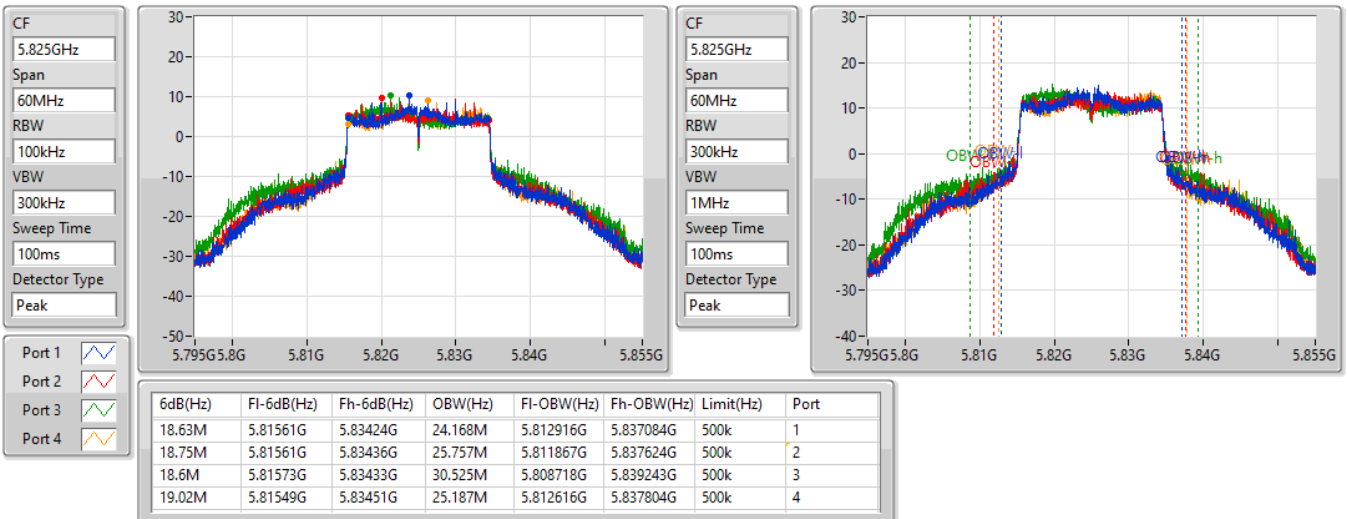


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5825MHz

04/10/2021



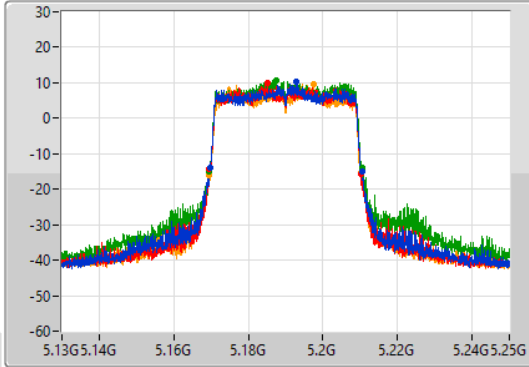
802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

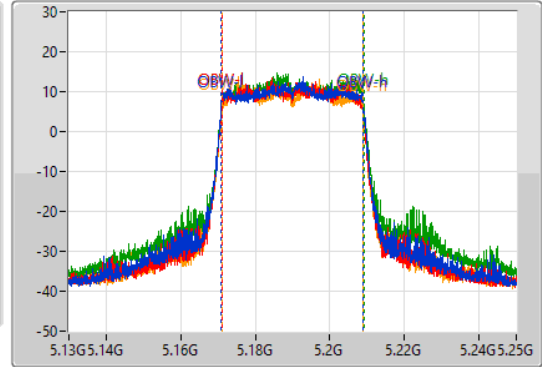
5190MHz

04/10/2021

CF  
5.19GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.19GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.04M	5.16966G	5.2107G	38.141M	5.17087G	5.20901G	Inf	1
40.74M	5.16954G	5.21028G	37.901M	5.17099G	5.208891G	Inf	2
41.22M	5.16936G	5.21058G	38.081M	5.17099G	5.20907G	Inf	3
40.86M	5.16942G	5.21028G	37.841M	5.171049G	5.208891G	Inf	4

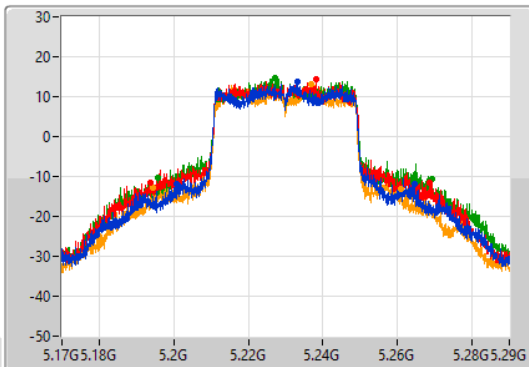
802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

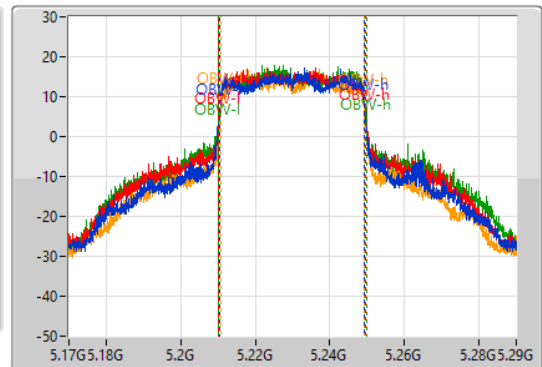
5230MHz

04/10/2021

CF  
5.23GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.23GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
64.02M	5.2006G	5.26462G	38.741M	5.21057G	5.24931G	Inf	1
74.7M	5.19376G	5.26846G	39.4M	5.21021G	5.24961G	Inf	2
73.74M	5.19562G	5.26936G	39.94M	5.21003G	5.24997G	Inf	3
66.3M	5.19448G	5.26078G	38.381M	5.21075G	5.24913G	Inf	4

802.11ax HEW40\_Nss1,(MCS0)\_4TX

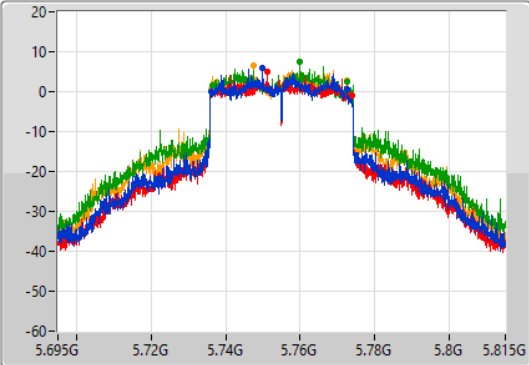
EBW

5755MHz

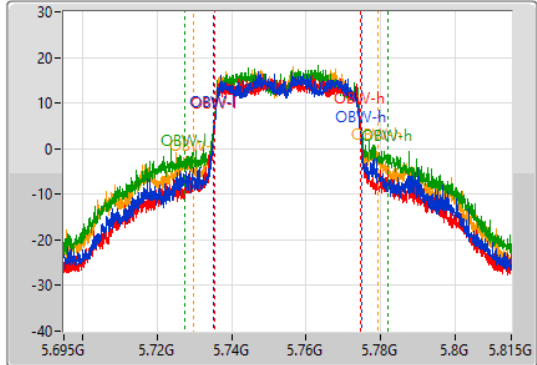
04/10/2021

CF: 5.755GHz  
 Span: 120MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak

Port 1: [Waveform icon]  
 Port 2: [Waveform icon]  
 Port 3: [Waveform icon]  
 Port 4: [Waveform icon]



CF: 5.755GHz  
 Span: 120MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.54M	5.73598G	5.77252G	39.58M	5.73527G	5.77485G	500k	1
37.86M	5.73604G	5.7739G	38.981M	5.73545G	5.77443G	500k	2
36.06M	5.73646G	5.77252G	54.513M	5.727294G	5.781807G	500k	3
36.48M	5.73598G	5.77246G	49.295M	5.729873G	5.779168G	500k	4

802.11ax HEW40\_Nss1,(MCS0)\_4TX

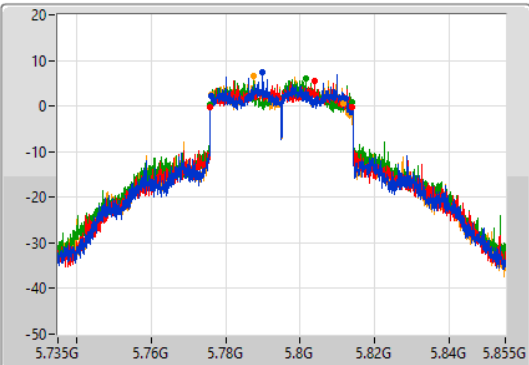
EBW

5795MHz

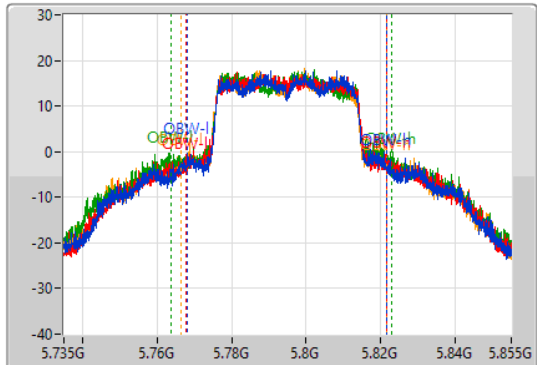
04/10/2021

CF: 5.795GHz  
 Span: 120MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak

Port 1: [Waveform icon]  
 Port 2: [Waveform icon]  
 Port 3: [Waveform icon]  
 Port 4: [Waveform icon]



CF: 5.795GHz  
 Span: 120MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.88M	5.77622G	5.8121G	53.253M	5.768193G	5.821447G	500k	1
38.16M	5.77586G	5.81402G	53.853M	5.767834G	5.821687G	500k	2
38.04M	5.77592G	5.81396G	59.07M	5.763816G	5.822886G	500k	3
35.4M	5.77604G	5.81144G	55.232M	5.766334G	5.821567G	500k	4

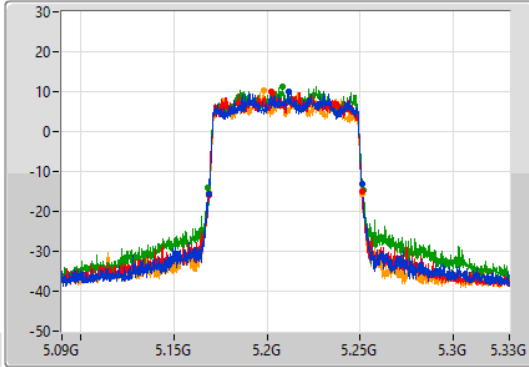
802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

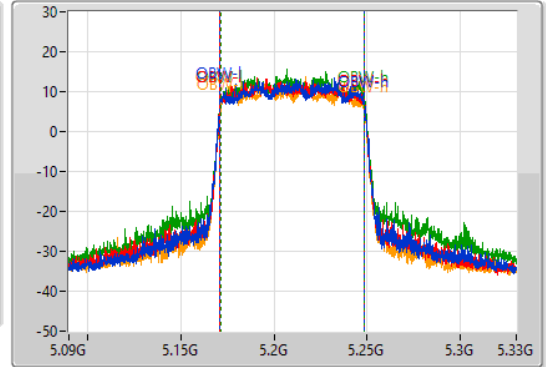
5210MHz

04/10/2021

CF  
5.21GHz  
Span  
240MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.21GHz  
Span  
240MHz  
RBW  
2MHz  
VBW  
10MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.68M	5.1686G	5.25128G	77.601M	5.171139G	5.248741G	Inf	1
82.2M	5.16884G	5.25104G	77.481M	5.171139G	5.248621G	Inf	2
83.04M	5.16848G	5.25152G	77.361M	5.171379G	5.248741G	Inf	3
81.84M	5.16896G	5.2508G	77.361M	5.171259G	5.248621G	Inf	4

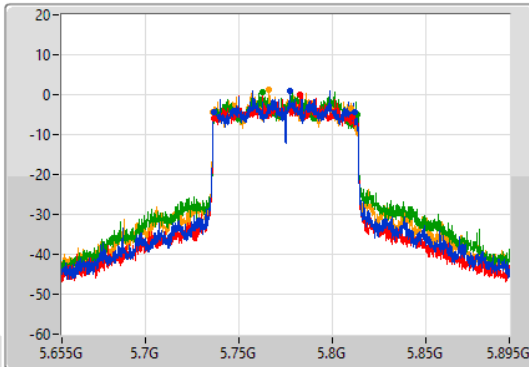
802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

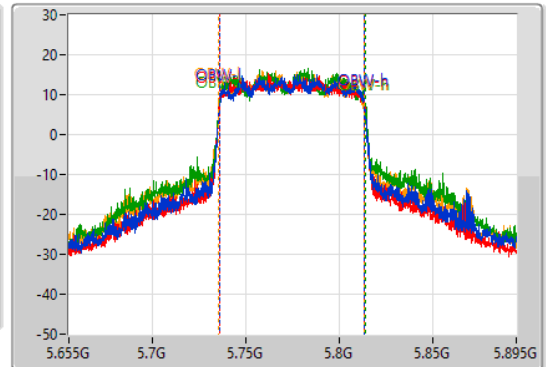
5775MHz

04/10/2021

CF  
5.775GHz  
Span  
240MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.775GHz  
Span  
240MHz  
RBW  
2MHz  
VBW  
10MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.36M	5.73648G	5.81184G	77.721M	5.7359G	5.813621G	500k	1
74.64M	5.73624G	5.81088G	77.841M	5.7359G	5.813741G	500k	2
76.2M	5.73732G	5.81352G	78.201M	5.7359G	5.8141G	500k	3
74.52M	5.73588G	5.8104G	77.841M	5.73554G	5.813381G	500k	4



For non-beamforming mode

**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	28.27	0.67143
802.11ax HEW20_Nss1,(MCS0)_4TX	28.17	0.65615
802.11ax HEW40_Nss1,(MCS0)_4TX	27.07	0.50933
802.11ax HEW80_Nss1,(MCS0)_4TX	22.89	0.19454
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	27.91	0.61802
802.11ax HEW20_Nss1,(MCS0)_4TX	27.88	0.61376
802.11ax HEW40_Nss1,(MCS0)_4TX	27.64	0.58076
802.11ax HEW80_Nss1,(MCS0)_4TX	24.81	0.30269





Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.87	19.85	20.03	20.71	19.44	26.05	30.00
5200MHz	Pass	1.87	22.09	22.02	22.94	21.88	28.27	30.00
5240MHz	Pass	1.87	20.59	20.59	21.30	20.47	26.77	30.00
5745MHz	Pass	4.42	20.29	20.09	20.98	20.89	26.60	30.00
5785MHz	Pass	4.42	22.03	21.61	22.09	21.80	27.91	30.00
5825MHz	Pass	4.42	21.60	21.44	21.76	21.58	27.62	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	1.87	19.55	19.86	20.23	19.18	25.74	30.00
5200MHz	Pass	1.87	21.89	21.79	22.82	22.01	28.17	30.00
5240MHz	Pass	1.87	20.72	21.00	21.33	20.78	26.98	30.00
5745MHz	Pass	4.42	20.61	20.18	21.33	20.97	26.81	30.00
5785MHz	Pass	4.42	21.91	21.76	22.06	21.71	27.88	30.00
5825MHz	Pass	4.42	21.62	21.37	19.83	21.31	27.11	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	1.87	16.90	16.73	17.97	16.41	23.06	30.00
5230MHz	Pass	1.87	20.60	21.35	21.72	20.40	27.07	30.00
5755MHz	Pass	4.42	20.56	20.34	21.74	21.32	27.05	30.00
5795MHz	Pass	4.42	20.97	21.72	21.99	21.72	27.64	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	1.87	16.66	16.59	17.81	16.23	22.89	30.00
5775MHz	Pass	4.42	18.49	18.27	19.33	18.97	24.81	30.00

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



For beamforming mode

**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.17	0.65615
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	27.07	0.50933
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.89	0.19454
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	27.88	0.61376
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	27.64	0.58076
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	24.81	0.30269



**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.17	19.55	19.86	20.23	19.18	25.74	30.00
5200MHz	Pass	4.17	21.89	21.79	22.82	22.01	28.17	30.00
5240MHz	Pass	4.17	20.72	21	21.33	20.78	26.98	30.00
5745MHz	Pass	4.48	20.61	20.18	21.33	20.97	26.81	30.00
5785MHz	Pass	4.48	21.91	21.76	22.06	21.71	27.88	30.00
5825MHz	Pass	4.48	21.62	21.37	19.83	21.31	27.11	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.17	16.9	16.73	17.97	16.41	23.06	30.00
5230MHz	Pass	4.17	20.6	21.35	21.72	20.4	27.07	30.00
5755MHz	Pass	4.48	20.56	20.34	21.74	21.32	27.05	30.00
5795MHz	Pass	4.48	20.97	21.72	21.99	21.72	27.64	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.17	16.66	16.59	17.81	16.23	22.89	30.00
5775MHz	Pass	4.48	18.49	18.27	19.33	18.97	24.81	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_4TX	14.87
802.11ax HEW20_Nss1,(MCS0)_4TX	13.78
802.11ax HEW40_Nss1,(MCS0)_4TX	10.33
802.11ax HEW80_Nss1,(MCS0)_4TX	3.38
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_4TX	13.57
802.11ax HEW20_Nss1,(MCS0)_4TX	12.58
802.11ax HEW40_Nss1,(MCS0)_4TX	9.67
802.11ax HEW80_Nss1,(MCS0)_4TX	4.28

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)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.17	7.08	7.01	7.51	6.51	12.75	17.00
5200MHz	Pass	4.17	9.20	9.19	9.74	8.76	14.87	17.00
5240MHz	Pass	4.17	8.03	8.16	8.55	7.55	13.58	17.00
5745MHz	Pass	4.48	6.33	5.61	7.28	6.91	12.03	30.00
5785MHz	Pass	4.48	7.70	7.18	8.12	8.17	13.57	30.00
5825MHz	Pass	4.48	6.57	6.34	7.25	7.36	12.31	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.17	6.01	6.17	6.61	5.78	11.81	17.00
5200MHz	Pass	4.17	8.13	8.34	8.77	8.77	13.78	17.00
5240MHz	Pass	4.17	7.18	7.33	7.95	7.19	12.91	17.00
5745MHz	Pass	4.48	5.59	4.89	6.75	6.90	11.33	30.00
5785MHz	Pass	4.48	7.05	6.19	7.72	6.85	12.58	30.00
5825MHz	Pass	4.48	6.98	5.63	6.98	6.11	11.99	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.17	0.80	0.35	2.05	0.57	6.19	17.00
5230MHz	Pass	4.17	4.65	4.91	5.98	4.42	10.33	17.00
5755MHz	Pass	4.48	3.04	2.00	4.03	4.21	9.14	30.00
5795MHz	Pass	4.48	3.76	3.47	4.25	4.15	9.67	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.17	-2.39	-2.40	-0.84	-2.32	3.38	17.00
5775MHz	Pass	4.48	-1.93	-2.74	-0.75	-0.72	4.28	30.00

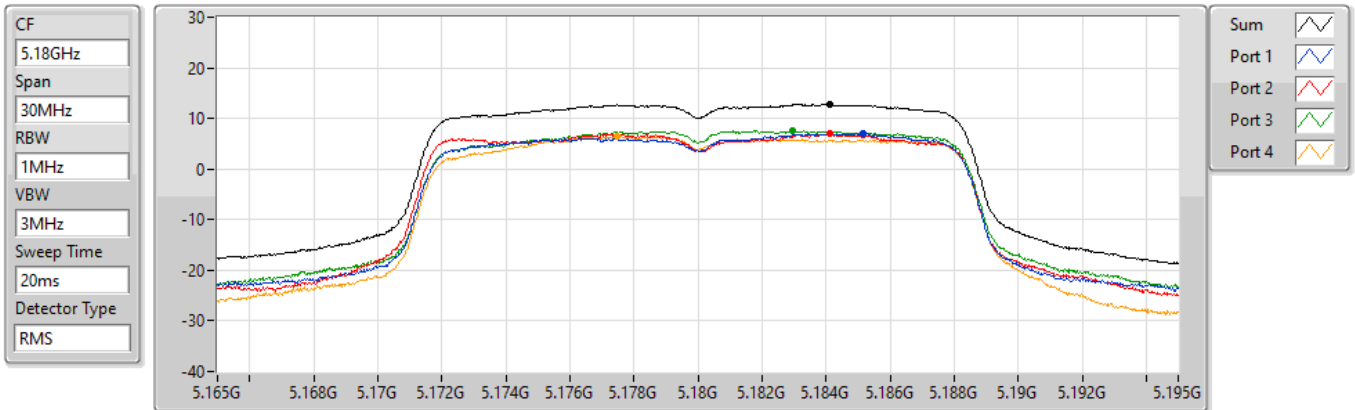
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;  
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

#### 5180MHz

04/10/2021



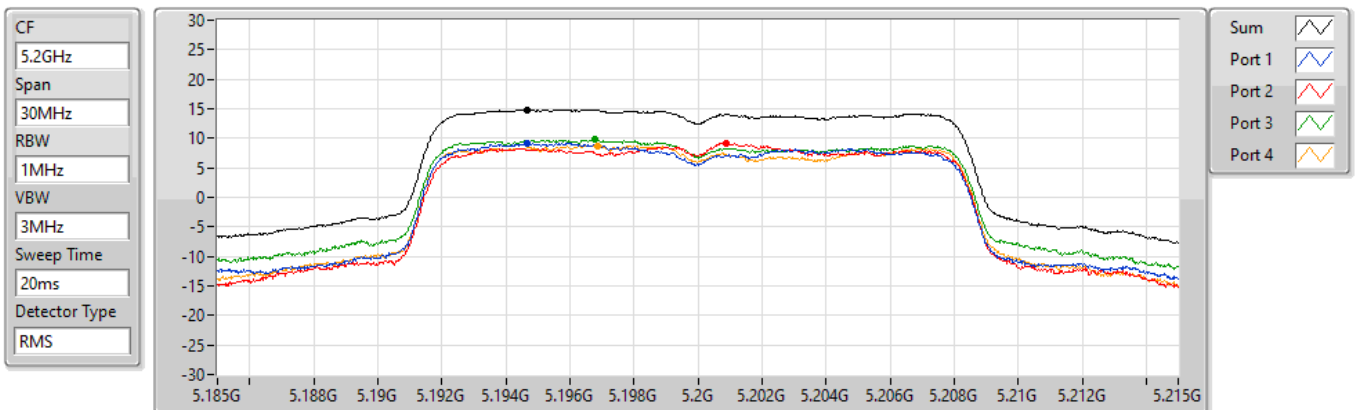
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.75	12.75	7.08	7.01	7.51	6.51

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

#### 5200MHz

04/10/2021



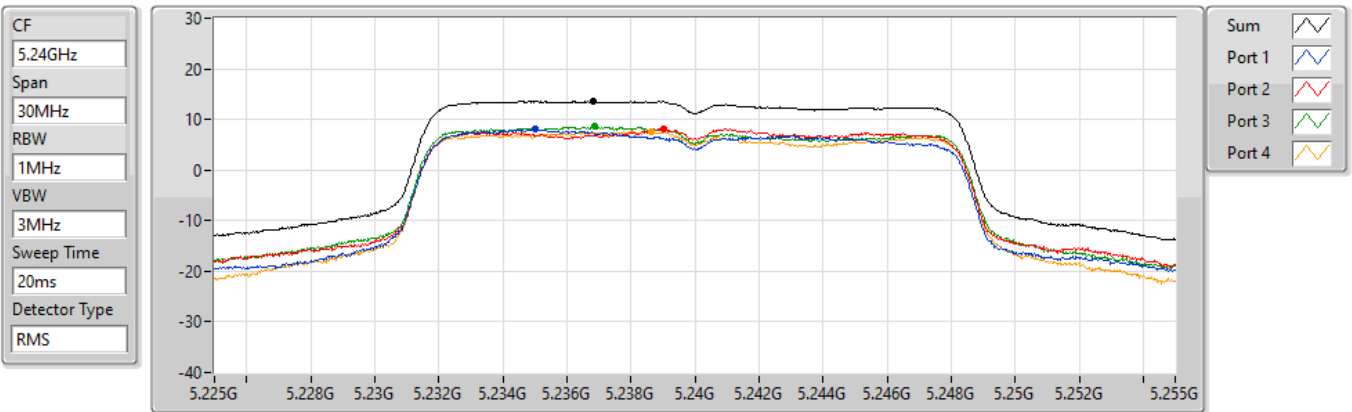
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.87	14.87	9.20	9.19	9.74	8.76

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5240MHz

04/10/2021



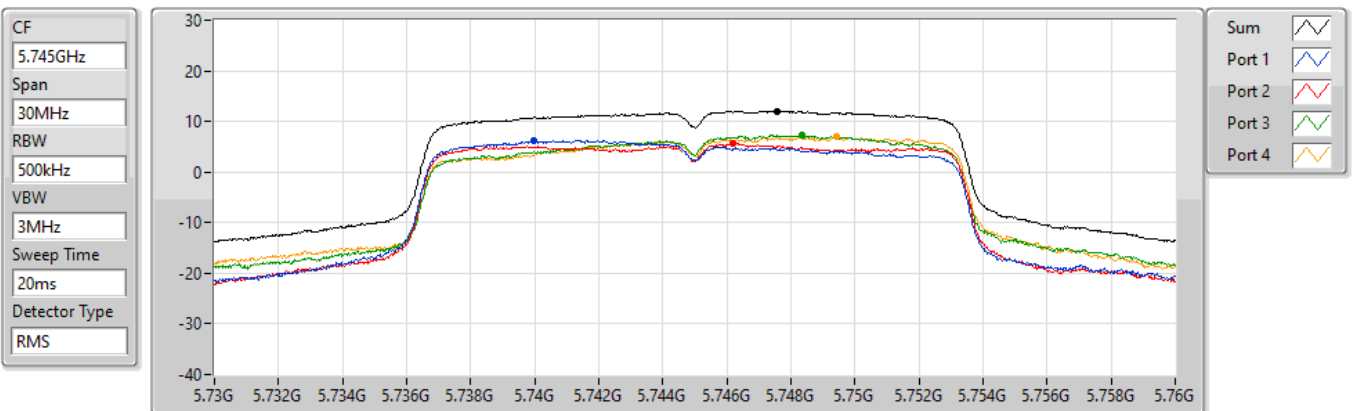
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.58	13.58	8.03	8.16	8.55	7.55

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5745MHz

04/10/2021



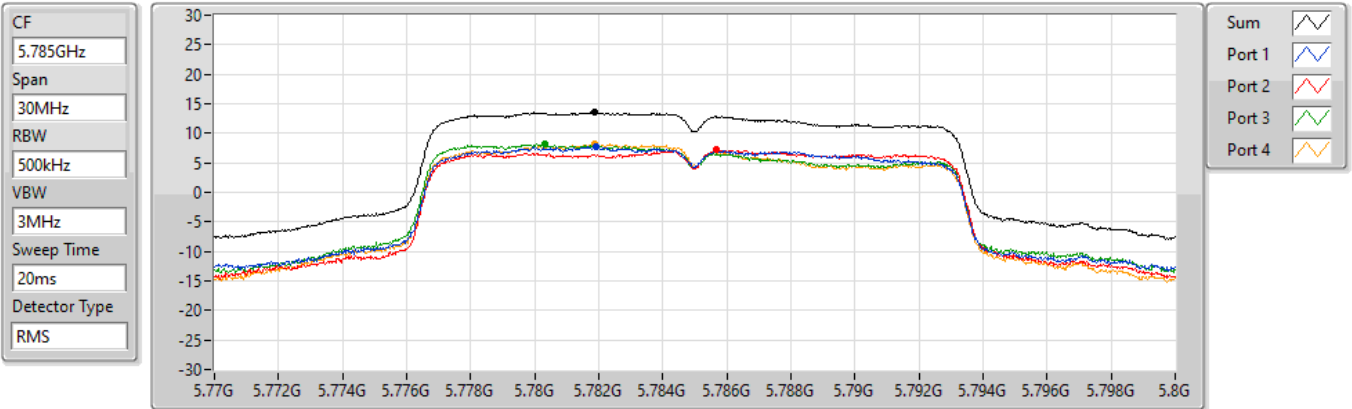
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.03	12.03	6.33	5.61	7.28	6.91

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5785MHz

04/10/2021



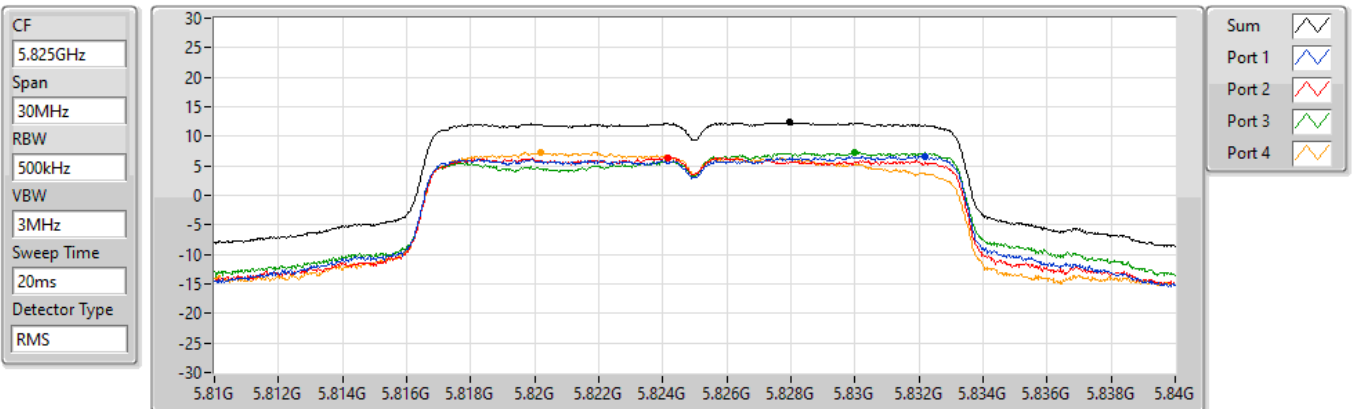
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.57	13.57	7.70	7.18	8.12	8.17

### 802.11a\_Nss1,(6Mbps)\_4TX

### PSD

5825MHz

04/10/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.31	12.31	6.57	6.34	7.25	7.36

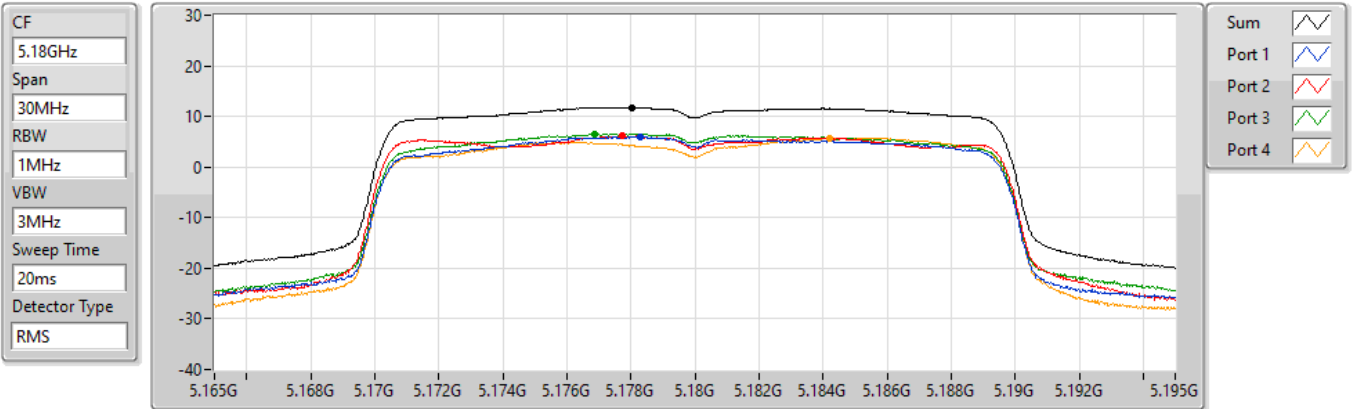


### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### PSD

#### 5180MHz

04/10/2021



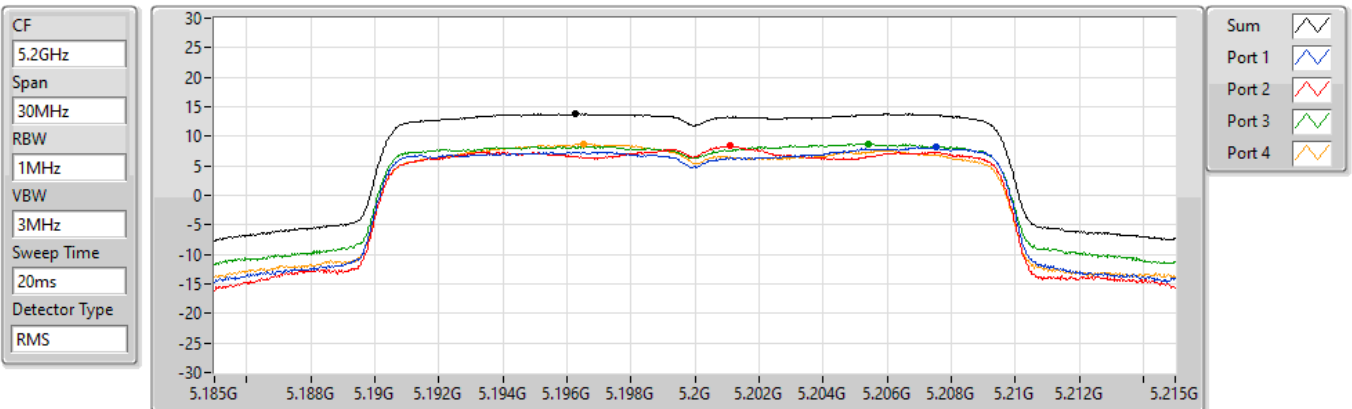
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.81	11.81	6.01	6.17	6.61	5.78

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### PSD

#### 5200MHz

04/10/2021



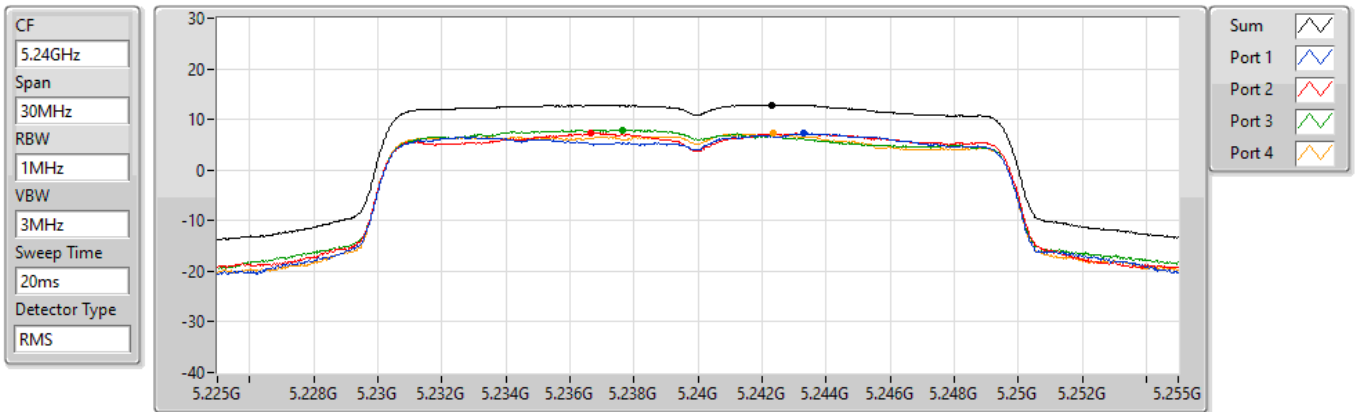
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.78	13.78	8.13	8.34	8.77	8.77

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5240MHz

04/10/2021



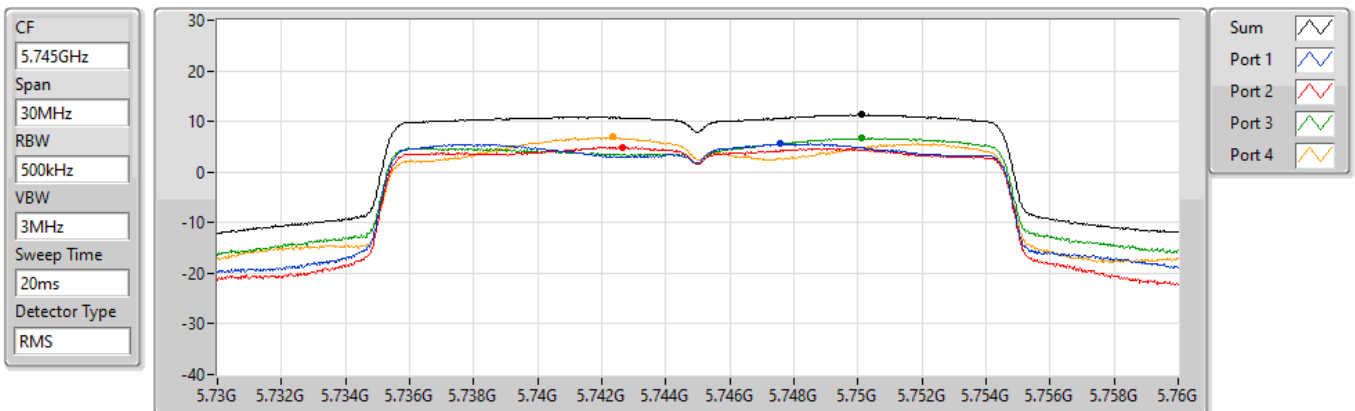
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.91	12.91	7.18	7.33	7.95	7.19

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5745MHz

04/10/2021



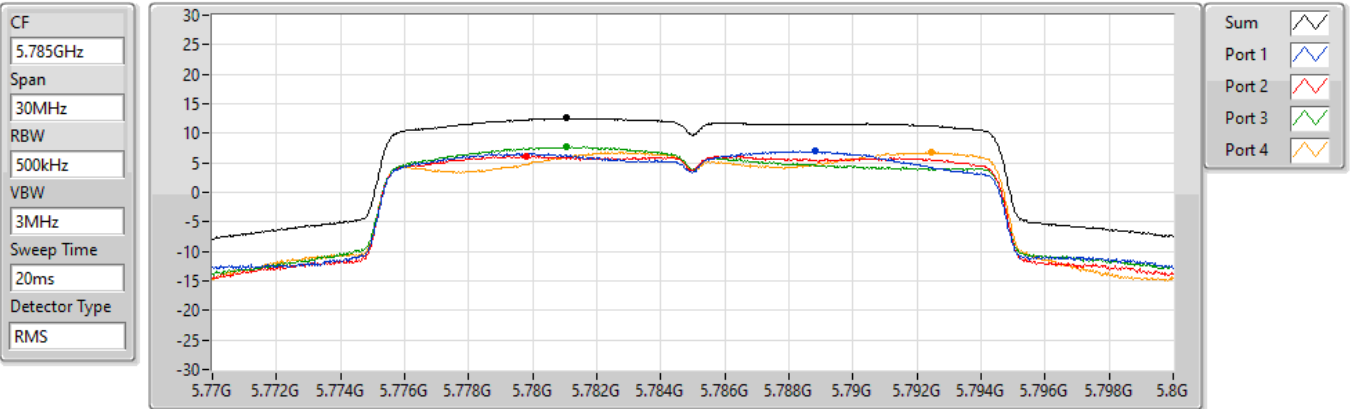
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.33	11.33	5.59	4.89	6.75	6.90

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

5785MHz

04/10/2021



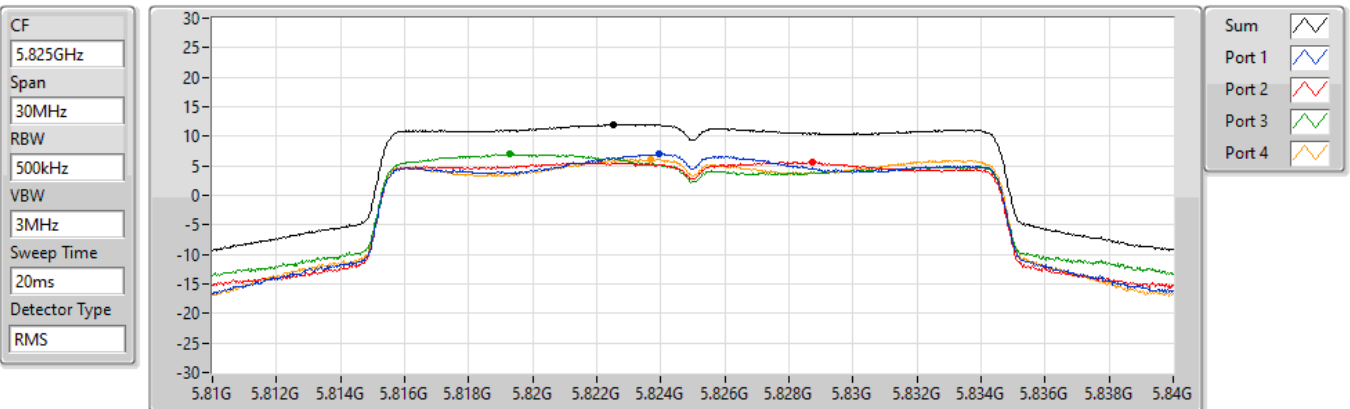
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.58	12.58	7.05	6.19	7.72	6.85

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

5825MHz

04/10/2021



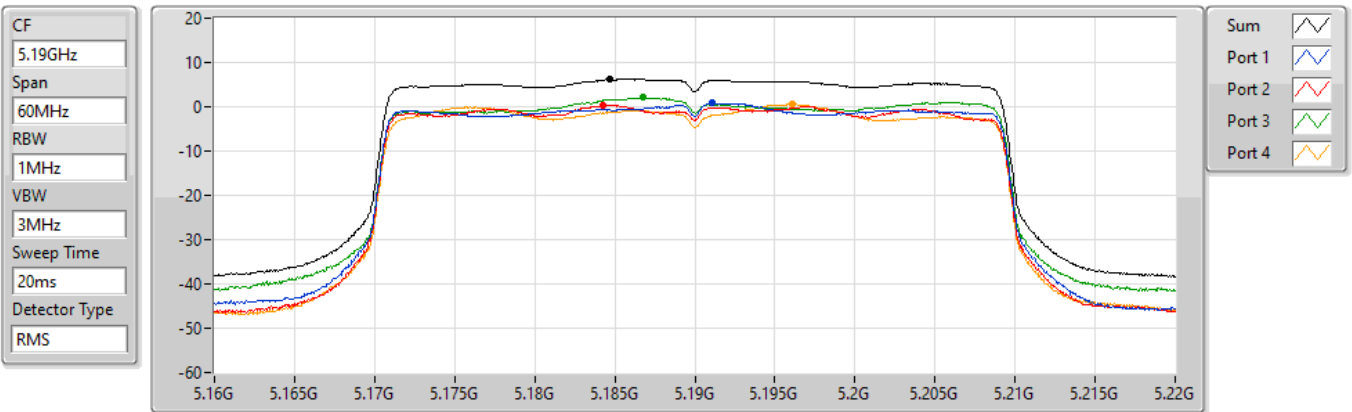
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.99	11.99	6.98	5.63	6.98	6.11

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5190MHz

04/10/2021



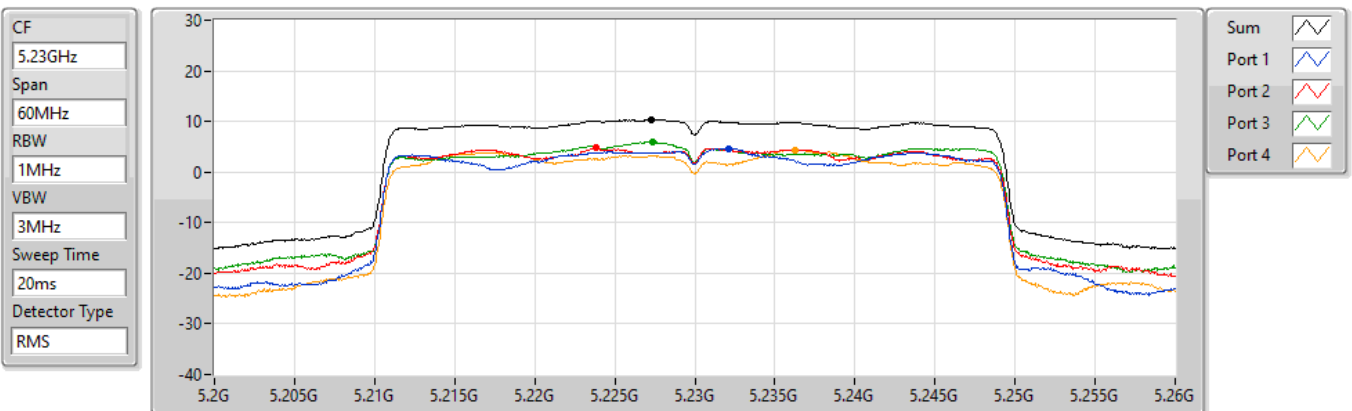
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.19	6.19	0.80	0.35	2.05	0.57

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5230MHz

04/10/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.33	10.33	4.65	4.91	5.98	4.42

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5755MHz

04/10/2021

CF  
5.755GHz

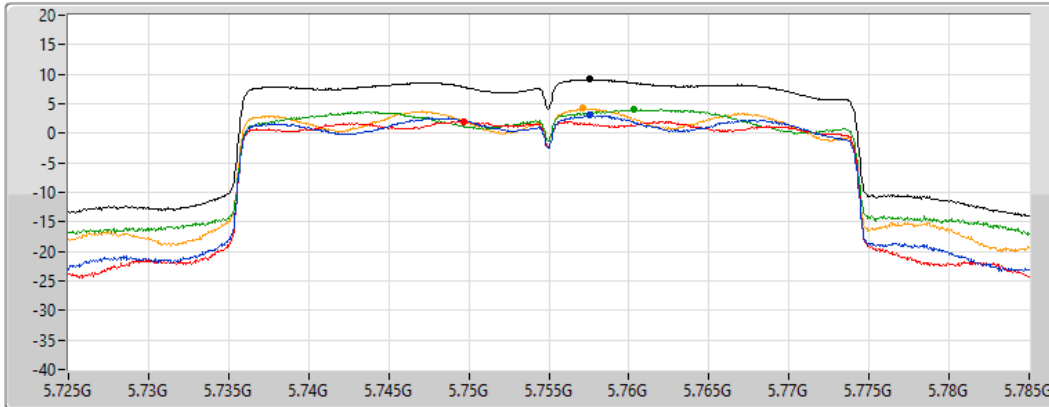
Span  
60MHz


RBW  
500kHz


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)
9.14	9.14	3.04	2.00	4.03	4.21

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5795MHz

04/10/2021

CF  
5.795GHz

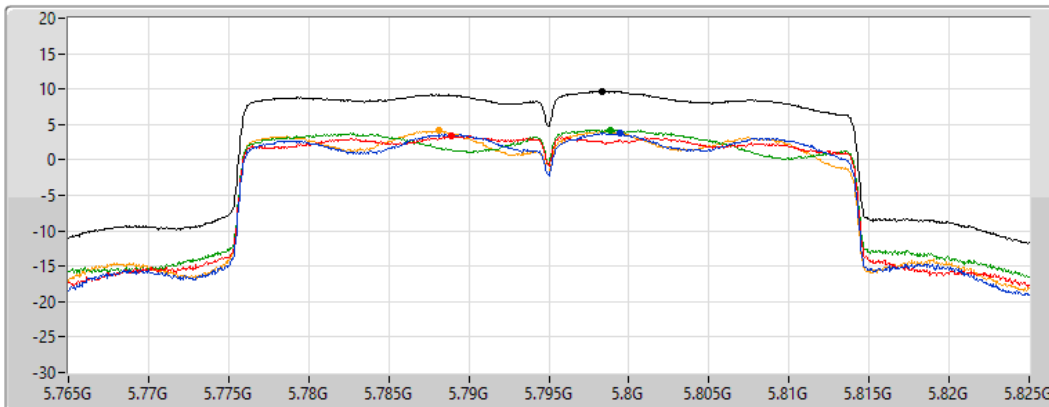
Span  
60MHz


RBW  
500kHz


VBW  
3MHz


Sweep Time  
20ms


Detector Type  
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

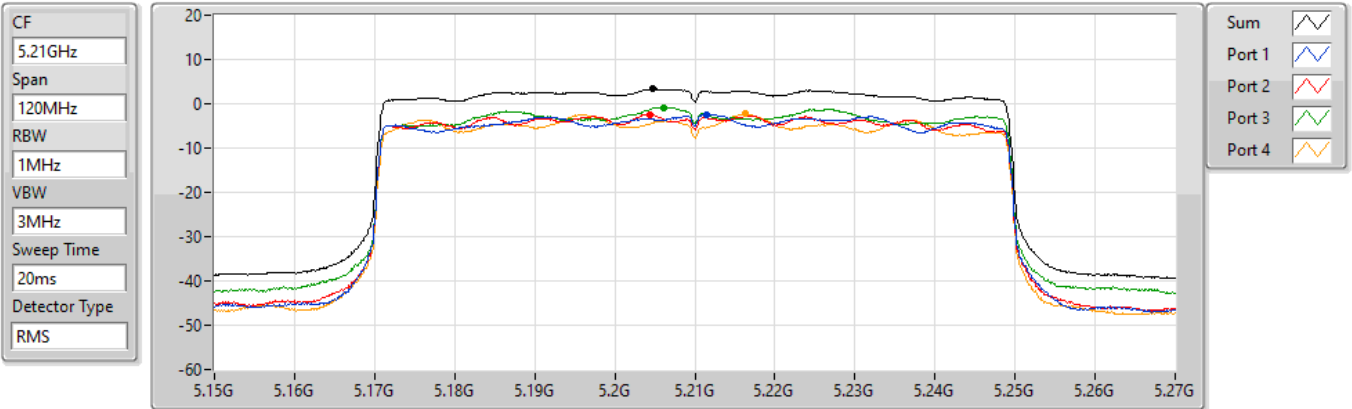
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.67	9.67	3.76	3.47	4.25	4.15

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

5210MHz

04/10/2021



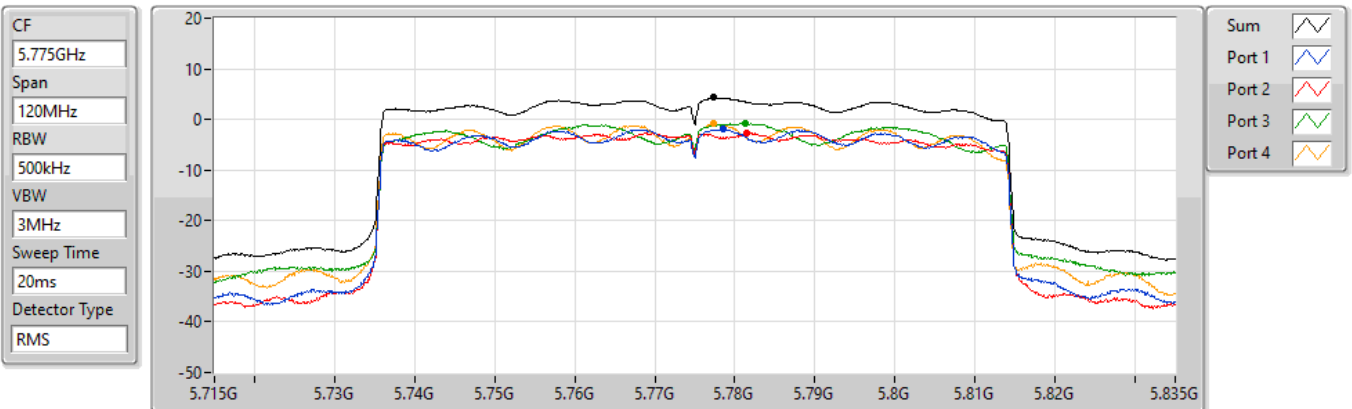
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.38	3.38	-2.39	-2.40	-0.84	-2.32

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

5775MHz

04/10/2021



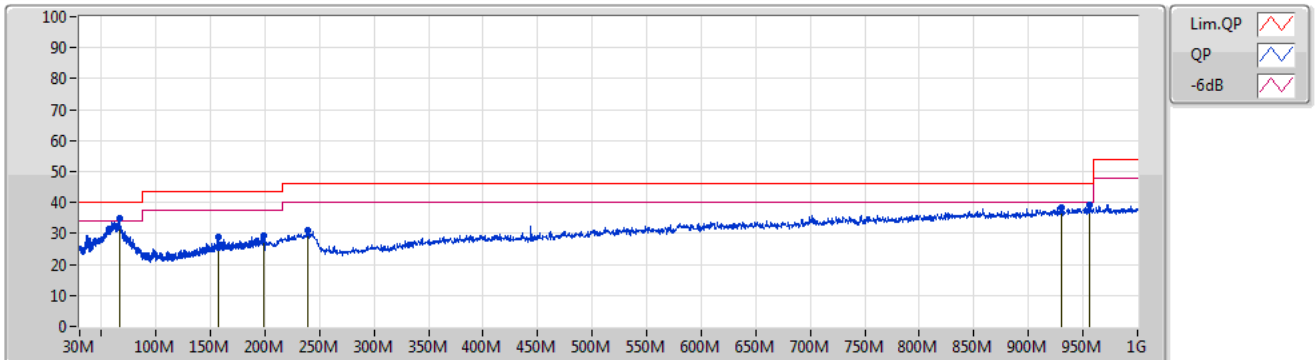
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.28	4.28	-1.93	-2.74	-0.75	-0.72



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	66.64M	34.78	40.00	-5.22	Vertical

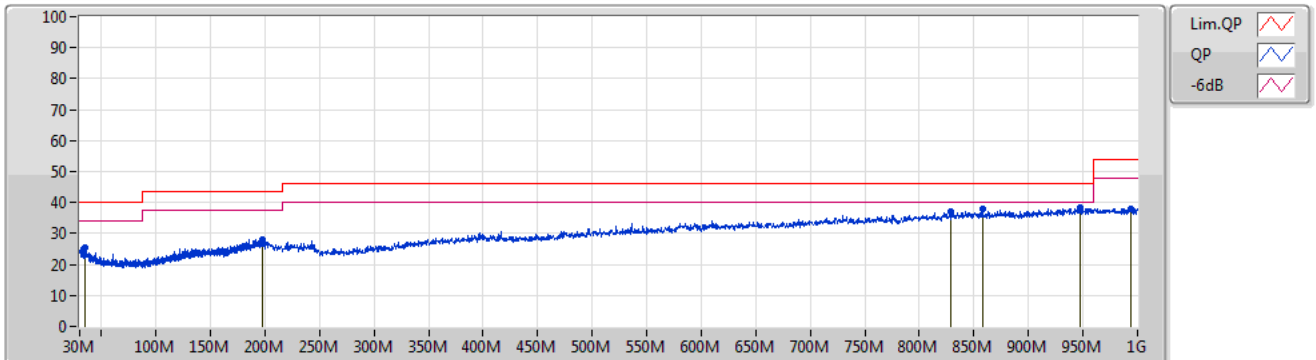
17/08/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	66.64M	34.78	40.00	-5.22	-16.59	3	Vertical	356	2.00	"Worst"	51.37	9.43	1.83	27.85
PK	157.76M	28.77	43.50	-14.73	-12.44	3	Vertical	351	2.00	-	41.21	11.90	3.18	27.52
PK	198.81M	29.23	43.50	-14.27	-9.01	3	Vertical	296	3.00	-	38.24	14.58	3.69	27.28
PK	238.8M	30.83	46.00	-15.17	-10.15	3	Vertical	360	4.00	-	40.98	12.93	3.31	26.39
PK	930.4M	38.30	46.00	-7.70	2.31	3	Vertical	359	3.00	-	35.99	21.93	6.84	26.46
PK	955.6M	39.27	46.00	-6.73	2.76	3	Vertical	250	1.00	-	36.51	22.10	7.00	26.34



17/08/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	35.27M	25.61	40.00	-14.39	-14.01	3	Horizontal	209	1.00	-	39.62	12.70	1.21	27.92
PK	197.79M	28.21	43.50	-15.29	-9.12	3	Horizontal	309	1.00	-	37.33	14.48	3.68	27.28
PK	828.4M	37.08	46.00	-8.92	0.54	3	Horizontal	0	4.00	-	36.54	21.11	6.41	26.98
PK	857.6M	37.91	46.00	-8.09	1.22	3	Horizontal	27	2.00	-	36.69	21.54	6.52	26.84
PK	946.8M	38.18	46.00	-7.82	2.81	3	Horizontal	341	1.00	"Worst"	35.37	22.20	6.97	26.36
PK	994M	38.12	54.00	-15.88	3.24	3	Horizontal	311	1.00	-	34.88	22.54	7.00	26.30

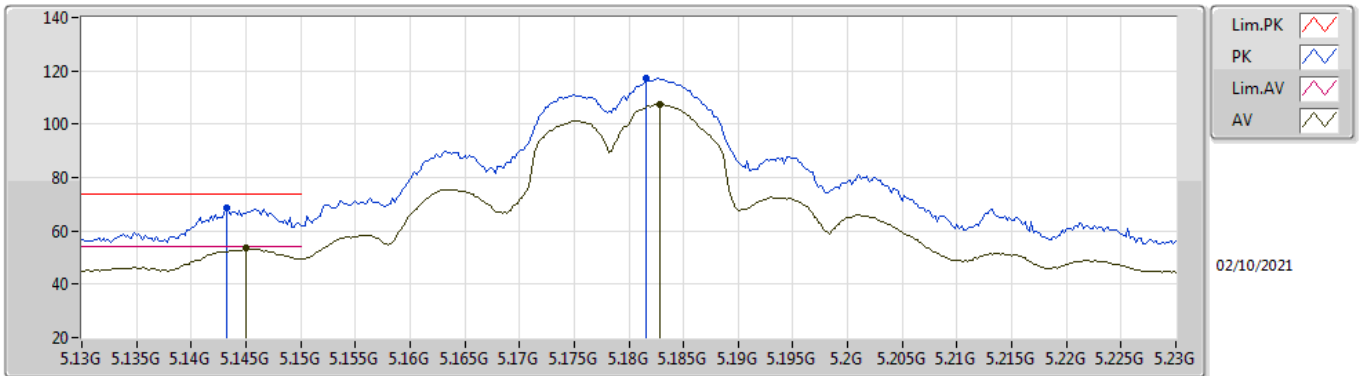


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	PK	17.241G	68.11	68.20	-0.09	3	Horizontal	142	3.00	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TnomVnom

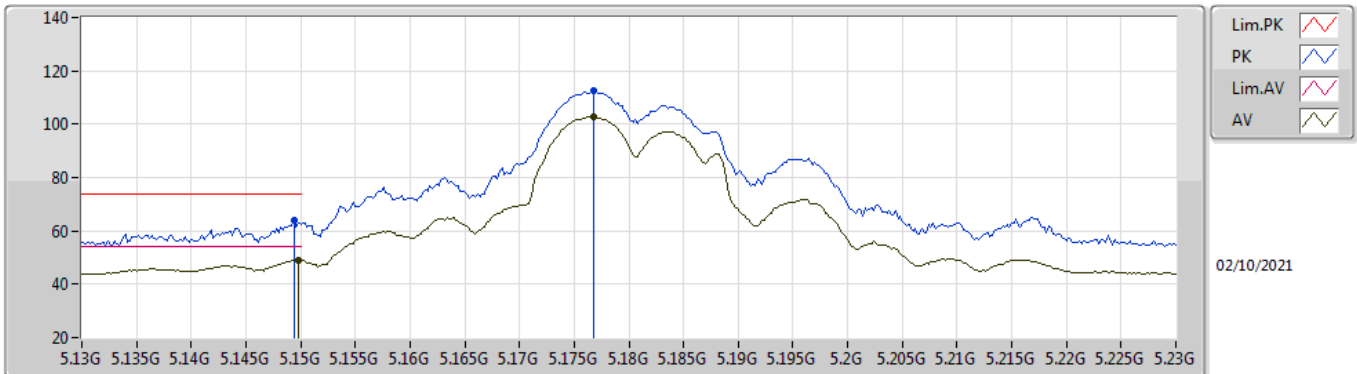


EUT\_Z\_4TX  
Setting 21  
02-B-N-2-10

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	5.1432G	68.56	74.00	-5.44	62.22	3	Vertical	272	2.56	-	33.50	4.99	32.15
AV	5.145G	53.46	54.00	-0.54	47.12	3	Vertical	272	2.56	-	33.50	4.99	32.15
PK	5.1816G	117.11	Inf	-Inf	110.70	3	Vertical	272	2.56	-	33.50	5.06	32.15
AV	5.1828G	107.25	Inf	-Inf	100.83	3	Vertical	272	2.56	-	33.50	5.07	32.15

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TnomVnom

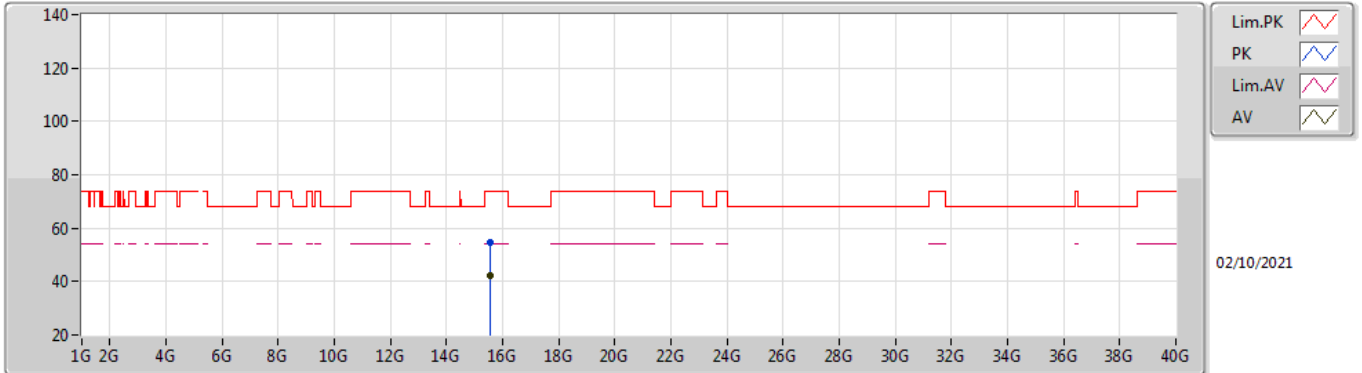


EUT\_Z\_4TX  
Setting 21  
02-B-N-2-10

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	5.1494G	63.92	74.00	-10.08	57.57	3	Horizontal	209	2.16	-	33.50	5.00	32.15
AV	5.1498G	48.96	54.00	-5.04	42.61	3	Horizontal	209	2.16	-	33.50	5.00	32.15
PK	5.1768G	112.64	Inf	-Inf	106.24	3	Horizontal	209	2.16	-	33.50	5.05	32.15
AV	5.1768G	102.89	Inf	-Inf	96.49	3	Horizontal	209	2.16	-	33.50	5.05	32.15

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TnomVnom

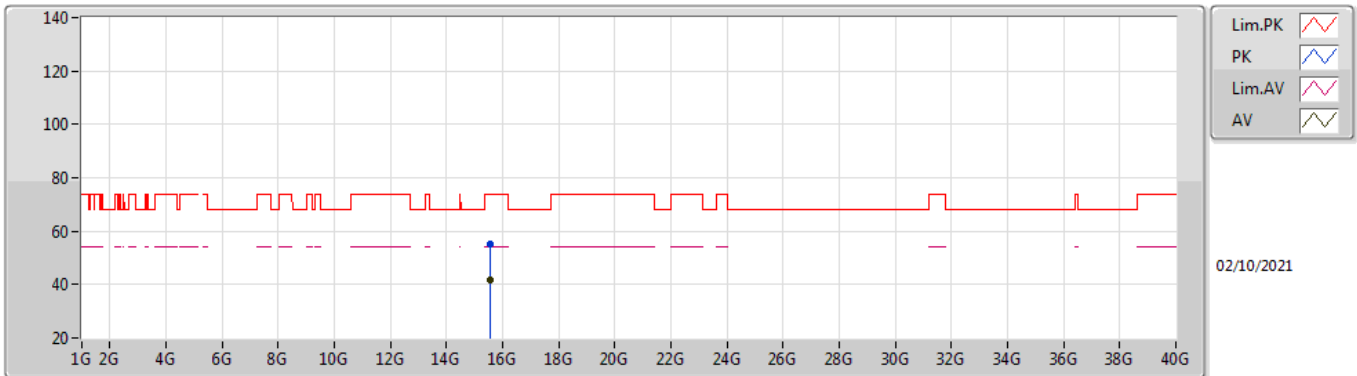


EUT\_Z\_4TX  
Setting 21  
02-B-N-2

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	15.5364G	54.90	74.00	-19.10	41.26	3	Vertical	213	2.11	-	37.79	9.04	33.19
AV	15.537G	42.03	54.00	-11.97	28.39	3	Vertical	213	2.11	-	37.79	9.04	33.19

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TnomVnom

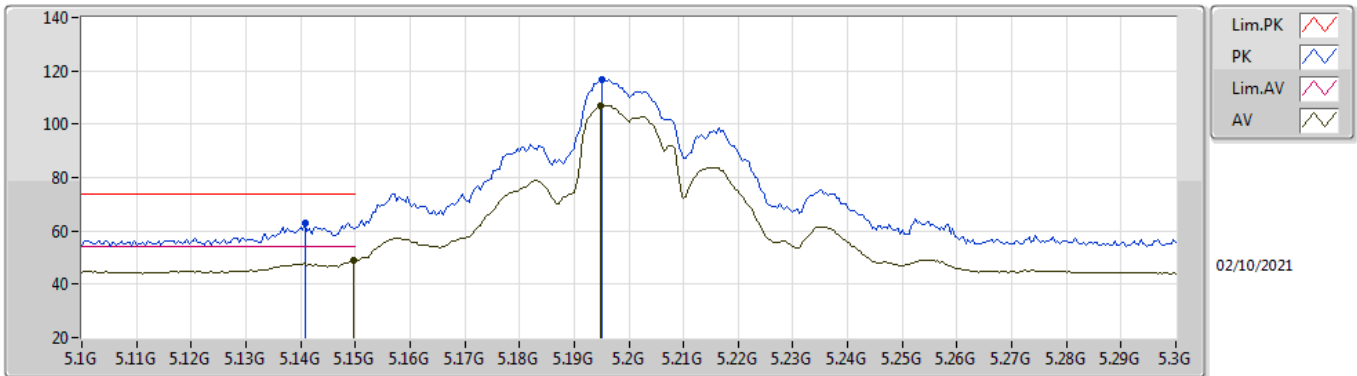


EUT\_Z\_4TX  
Setting 21  
02-B-N-2

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	15.546G	55.32	74.00	-18.68	41.72	3	Horizontal	194	2.08	-	37.76	9.04	33.20
AV	15.5441G	41.57	54.00	-12.43	27.96	3	Horizontal	194	2.08	-	37.77	9.04	33.20

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TnomVnom

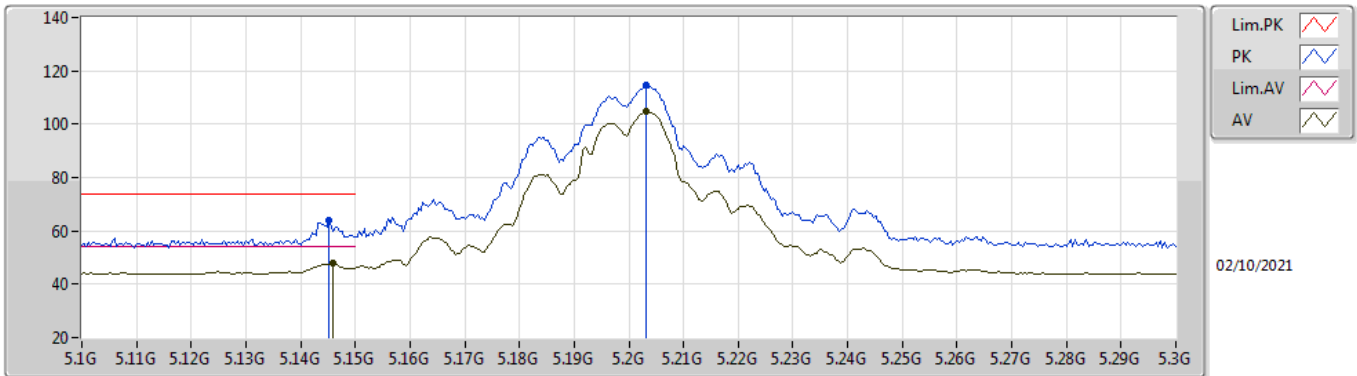


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.1408G	63.10	74.00	-10.90	56.77	3	Vertical	11	2.19	-	33.50	4.98	32.15
AV	5.1496G	49.05	54.00	-4.95	42.70	3	Vertical	11	2.19	-	33.50	5.00	32.15
PK	5.1952G	116.55	Inf	-Inf	110.11	3	Vertical	11	2.19	-	33.50	5.09	32.15
AV	5.1948G	106.99	Inf	-Inf	100.55	3	Vertical	11	2.19	-	33.50	5.09	32.15

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TnomVnom



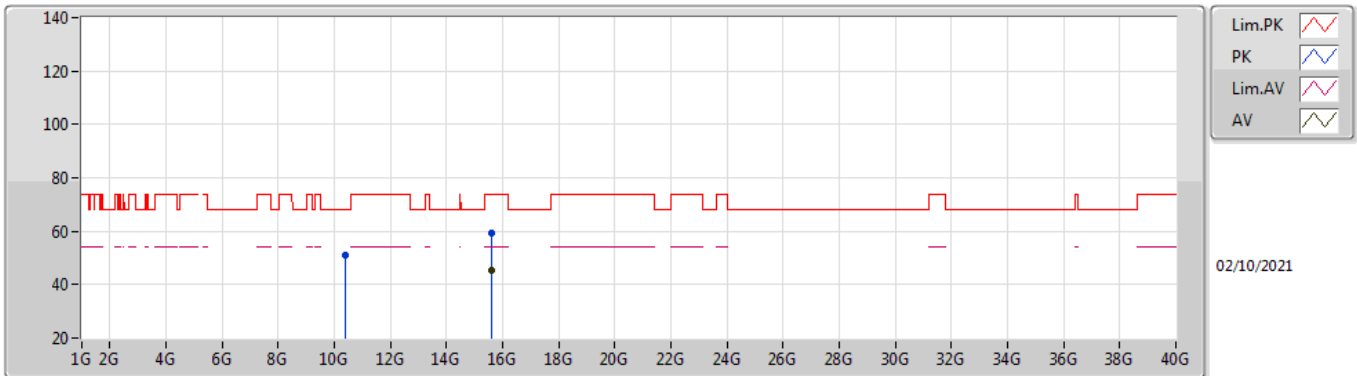
EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.1452G	64.02	74.00	-9.98	57.68	3	Horizontal	214	2.32	-	33.50	4.99	32.15
AV	5.146G	47.82	54.00	-6.18	41.48	3	Horizontal	214	2.32	-	33.50	4.99	32.15
PK	5.2032G	114.59	Inf	-Inf	108.13	3	Horizontal	214	2.32	-	33.51	5.10	32.15
AV	5.2032G	104.79	Inf	-Inf	98.33	3	Horizontal	214	2.32	-	33.51	5.10	32.15



### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TnomVnom

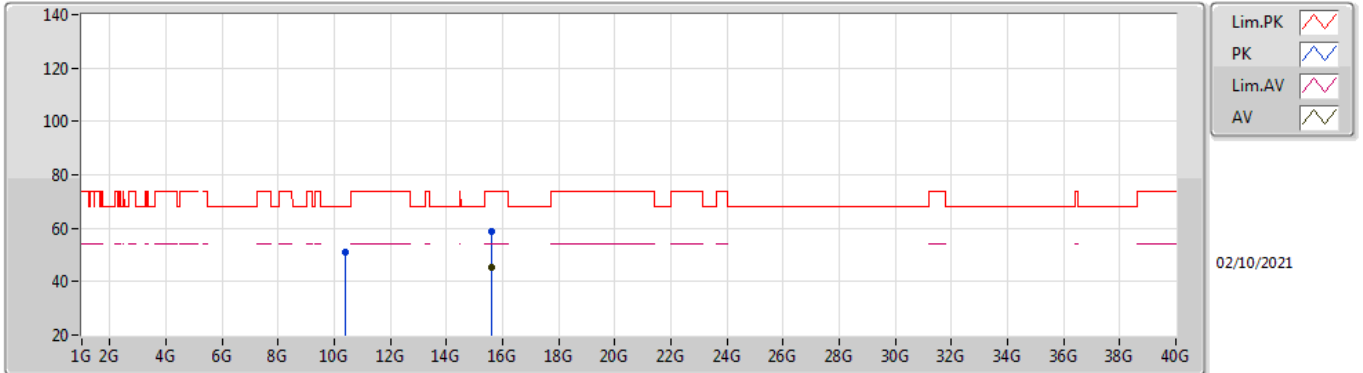


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	10.3985G	51.21	68.20	-16.99	38.55	3	Vertical	145	2.63	-	38.40	7.24	32.98
PK	15.5947G	59.38	74.00	-14.62	45.96	3	Vertical	196	1.71	-	37.62	9.06	33.26
AV	15.5968G	45.24	54.00	-8.76	31.83	3	Vertical	196	1.71	-	37.61	9.06	33.26

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TnomVnom

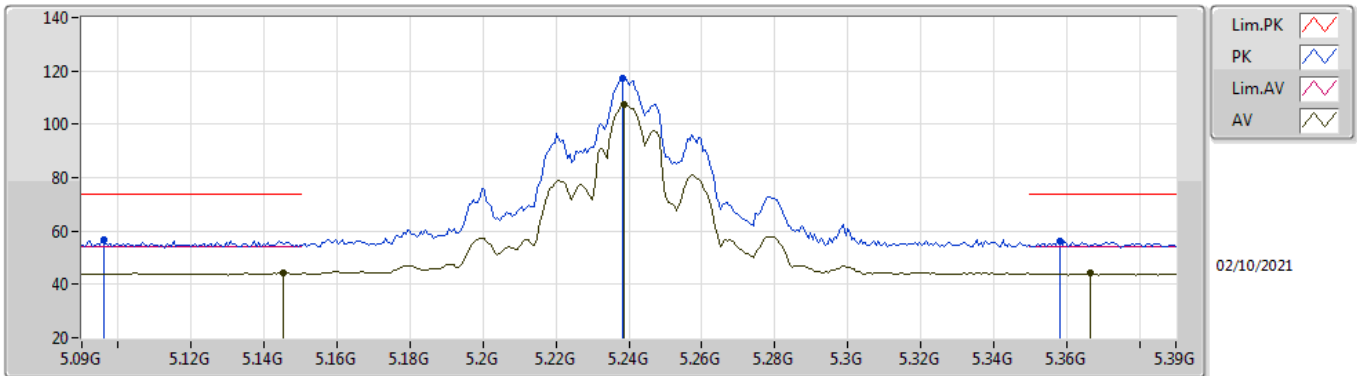


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	10.382G	50.91	68.20	-17.29	38.23	3	Horizontal	343	1.61	-	38.42	7.23	32.97
PK	15.582G	58.90	74.00	-15.10	45.45	3	Horizontal	112	2.11	-	37.64	9.06	33.25
AV	15.5967G	45.39	54.00	-8.61	31.98	3	Horizontal	112	2.11	-	37.61	9.06	33.26

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TnomVnom

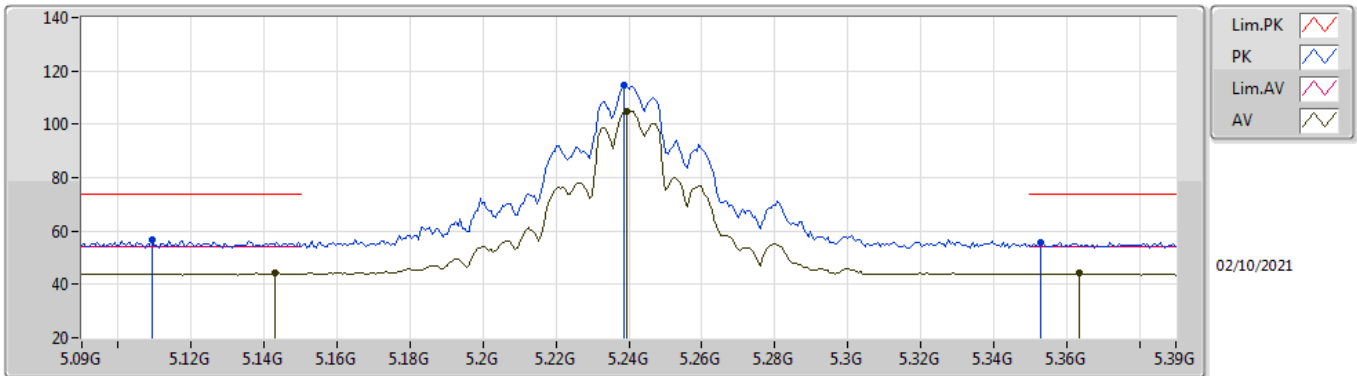


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.096G	56.94	74.00	-17.06	50.72	3	Vertical	189	2.01	-	33.48	4.89	32.15
AV	5.1452G	44.43	54.00	-9.57	38.09	3	Vertical	189	2.01	-	33.50	4.99	32.15
PK	5.2382G	117.14	Inf	-Inf	110.63	3	Vertical	189	2.01	-	33.58	5.08	32.15
AV	5.2388G	107.38	Inf	-Inf	100.87	3	Vertical	189	2.01	-	33.58	5.08	32.15
PK	5.3582G	56.07	74.00	-17.93	49.47	3	Vertical	189	2.01	-	33.72	5.02	32.14
AV	5.3666G	44.09	54.00	-9.91	37.48	3	Vertical	189	2.01	-	33.73	5.02	32.14

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TnomVnom

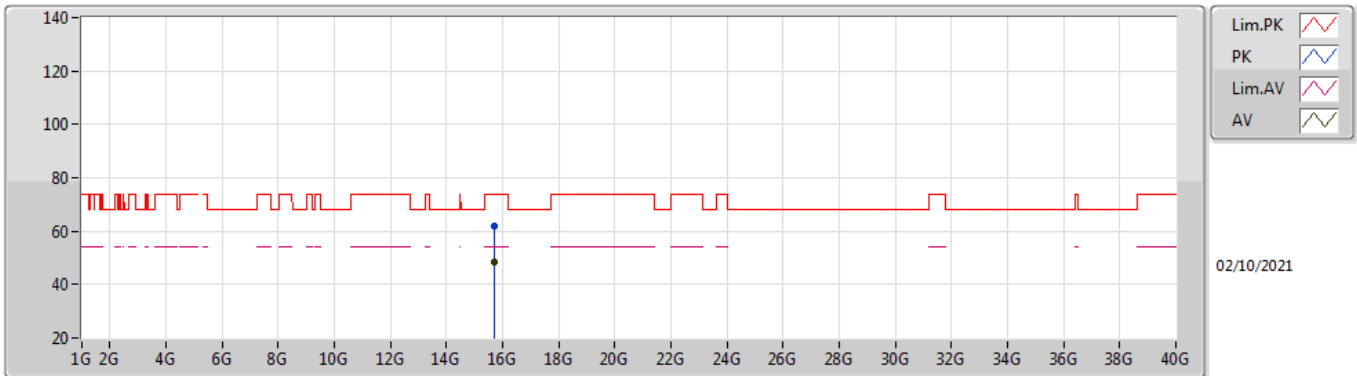


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.1092G	56.66	74.00	-17.34	50.39	3	Horizontal	213	2.26	-	33.50	4.92	32.15
AV	5.1428G	44.31	54.00	-9.69	37.97	3	Horizontal	213	2.26	-	33.50	4.99	32.15
PK	5.2388G	114.58	Inf	-Inf	108.07	3	Horizontal	213	2.26	-	33.58	5.08	32.15
AV	5.2394G	104.99	Inf	-Inf	98.48	3	Horizontal	213	2.26	-	33.58	5.08	32.15
PK	5.3528G	55.82	74.00	-18.18	49.23	3	Horizontal	213	2.26	-	33.71	5.02	32.14
AV	5.3636G	44.12	54.00	-9.88	37.51	3	Horizontal	213	2.26	-	33.73	5.02	32.14

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TnomVnom

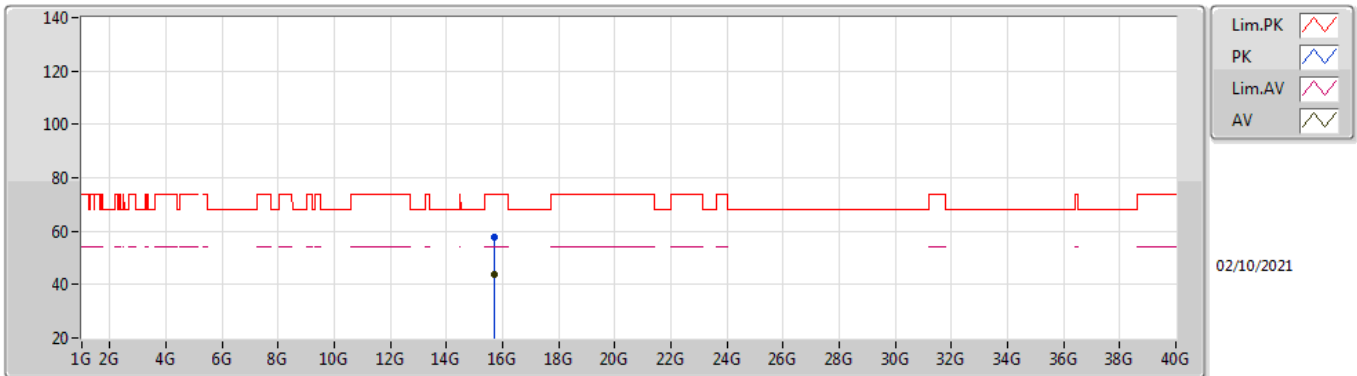


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	15.7145G	61.72	74.00	-12.28	48.62	3	Vertical	194	1.74	-	37.40	9.10	33.40
AV	15.713G	48.21	54.00	-5.79	35.11	3	Vertical	194	1.74	-	37.40	9.10	33.40

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TnomVnom

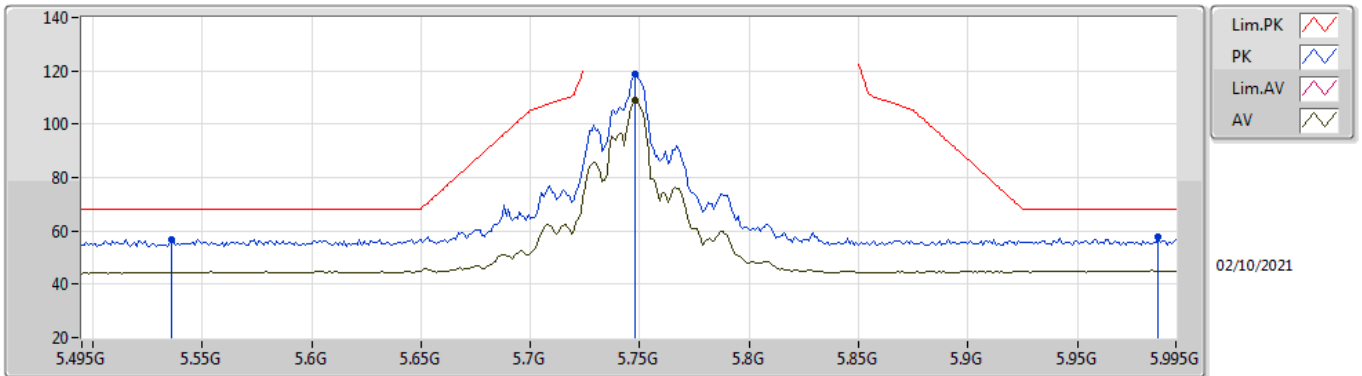


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	15.7144G	57.57	74.00	-16.43	44.47	3	Horizontal	351	2.59	-	37.40	9.10	33.40
AV	15.7228G	44.04	54.00	-9.96	30.95	3	Horizontal	351	2.59	-	37.40	9.10	33.41

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TnomVnom

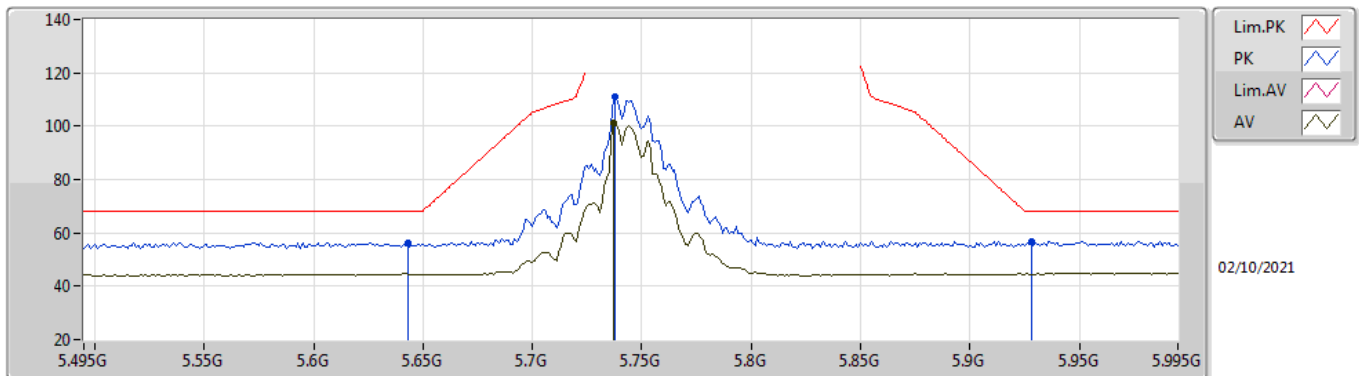


EUT\_Z\_4TX  
Setting 21.5  
02-B-N-2-10

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	5.536G	56.76	68.20	-11.44	49.85	3	Vertical	213	2.27	-	33.90	5.14	32.13
PK	5.748G	119.02	Inf	-Inf	112.31	3	Vertical	213	2.27	-	33.80	5.05	32.14
AV	5.748G	109.14	Inf	-Inf	102.43	3	Vertical	213	2.27	-	33.80	5.05	32.14
PK	5.987G	57.63	68.20	-10.57	50.13	3	Vertical	213	2.27	-	34.10	5.56	32.16

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TnomVnom



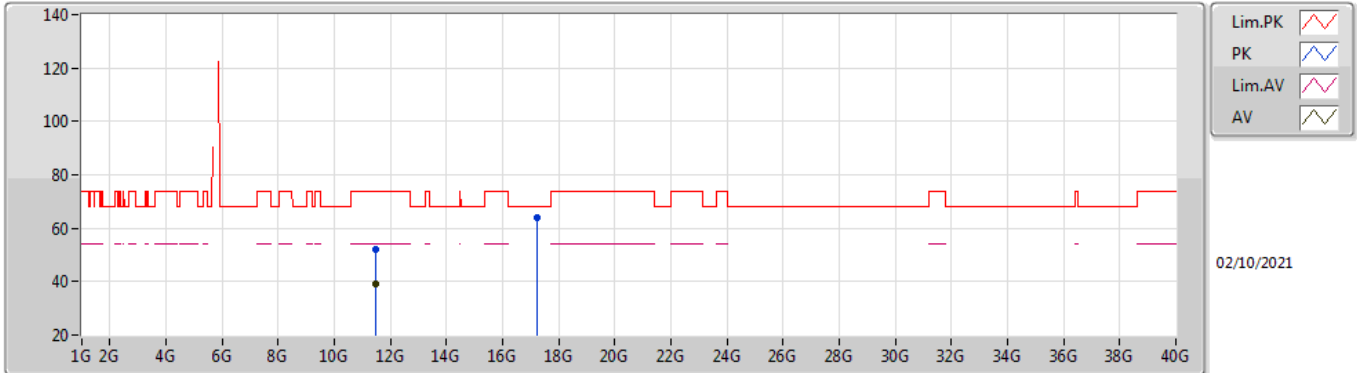
EUT\_Z\_4TX  
Setting 21.5  
02-B-N-2-10

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	56.42	68.20	-11.78	49.59	3	Horizontal	105	2.96	-	33.81	5.16	32.14
PK	5.738G	110.97	Inf	-Inf	104.27	3	Horizontal	105	2.96	-	33.78	5.06	32.14
AV	5.737G	101.33	Inf	-Inf	94.64	3	Horizontal	105	2.96	-	33.77	5.06	32.14
PK	5.928G	56.97	68.20	-11.23	49.69	3	Horizontal	105	2.96	-	34.06	5.38	32.16



### 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TnomVnom

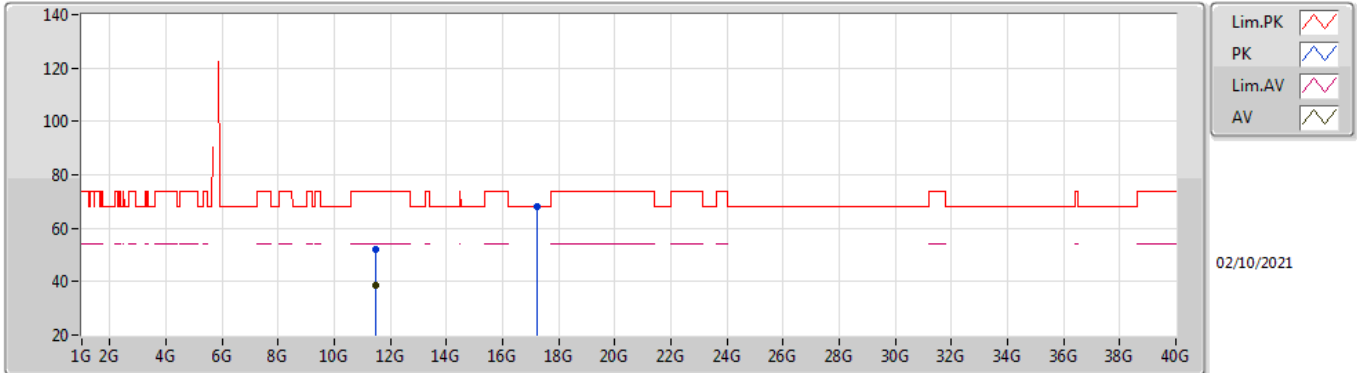


EUT\_Z\_4TX  
Setting 21.5  
02-B-N-2

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	11.4859G	51.96	74.00	-22.04	38.59	3	Vertical	53	2.65	-	38.97	7.62	33.22
AV	11.4829G	39.04	54.00	-14.96	25.67	3	Vertical	53	2.65	-	38.97	7.62	33.22
PK	17.2424G	64.15	68.20	-4.05	45.96	3	Vertical	278	1.85	-	42.13	9.32	33.26

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TnomVnom

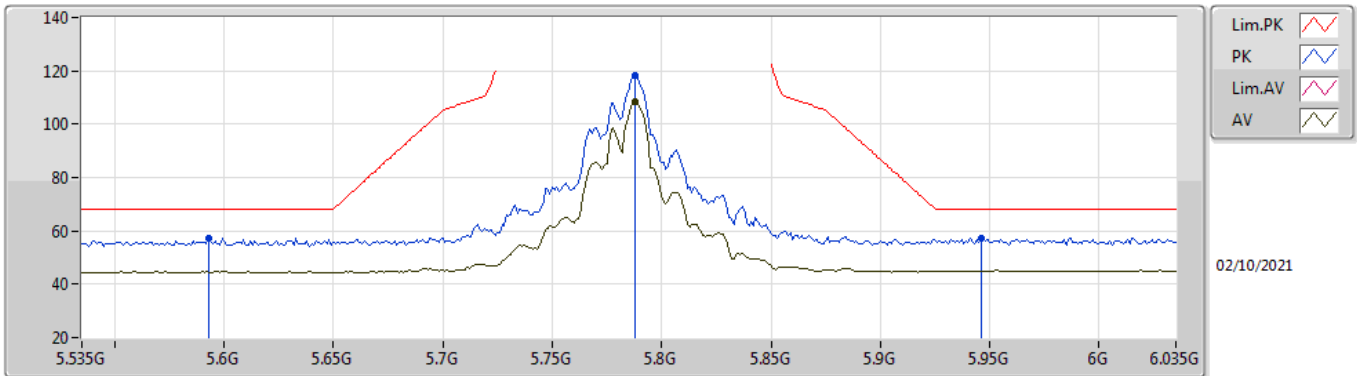


EUT\_Z\_4TX  
Setting 21.5  
02-B-N-2

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	11.4938G	51.82	74.00	-22.18	38.43	3	Horizontal	46	2.54	-	38.99	7.62	33.22
AV	11.4834G	38.77	54.00	-15.23	25.40	3	Horizontal	46	2.54	-	38.97	7.62	33.22
PK	17.2377G	67.99	68.20	-0.21	49.83	3	Horizontal	162	2.45	-	42.11	9.32	33.27

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TnomVnom

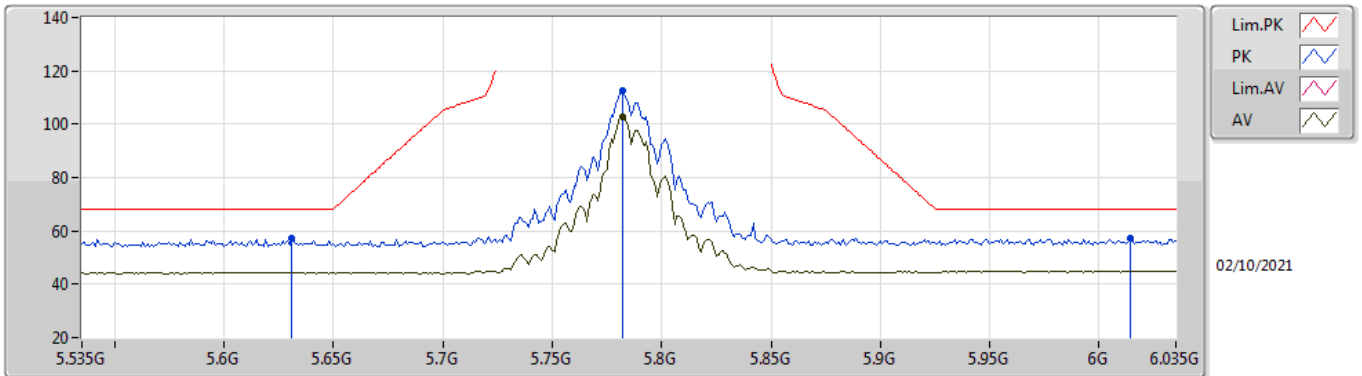


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.593G	57.03	68.20	-11.17	50.08	3	Vertical	331	2.19	-	33.90	5.19	32.14
PK	5.788G	118.31	Inf	-Inf	111.73	3	Vertical	331	2.19	-	33.72	5.01	32.15
AV	5.788G	108.33	Inf	-Inf	101.75	3	Vertical	331	2.19	-	33.72	5.01	32.15
PK	5.946G	57.46	68.20	-10.74	50.09	3	Vertical	331	2.19	-	34.09	5.44	32.16

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TnomVnom

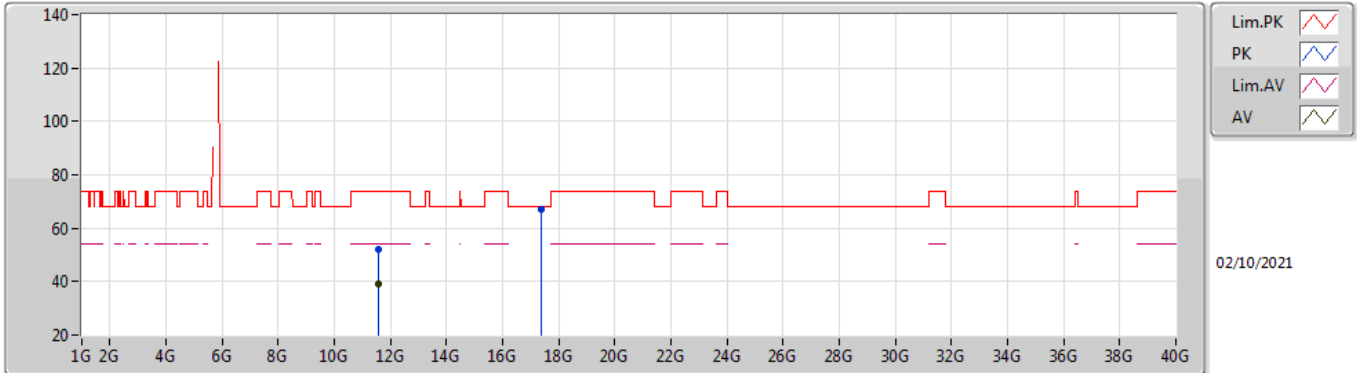


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.631G	57.00	68.20	-11.20	50.13	3	Horizontal	59	2.96	-	33.84	5.17	32.14
PK	5.782G	112.83	Inf	-Inf	106.22	3	Horizontal	59	2.96	-	33.74	5.02	32.15
AV	5.782G	103.00	Inf	-Inf	96.39	3	Horizontal	59	2.96	-	33.74	5.02	32.15
PK	6.014G	57.05	68.20	-11.15	49.47	3	Horizontal	59	2.96	-	34.16	5.58	32.16

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TnomVnom

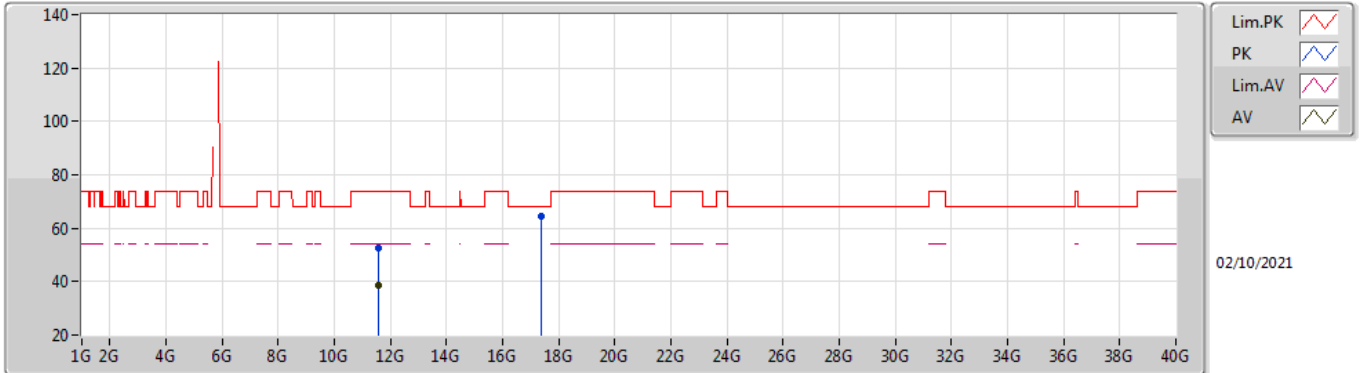


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	11.5812G	51.95	74.00	-22.05	38.30	3	Vertical	200	2.28	-	39.24	7.65	33.24
AV	11.5707G	39.18	54.00	-14.82	25.56	3	Vertical	200	2.28	-	39.21	7.65	33.24
PK	17.3624G	66.99	68.20	-1.21	47.98	3	Vertical	276	2.15	-	42.80	9.34	33.13

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TnomVnom

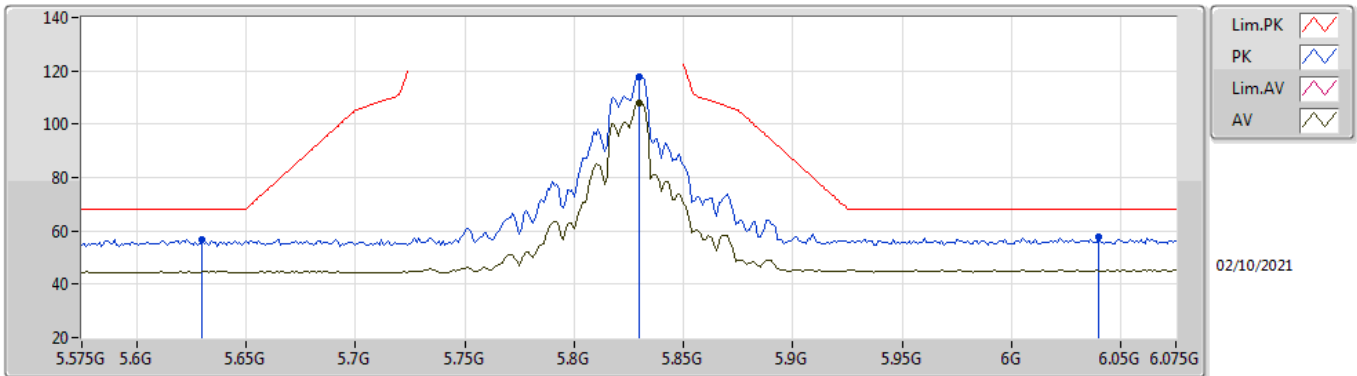


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	11.5807G	52.65	74.00	-21.35	39.00	3	Horizontal	317	2.13	-	39.24	7.65	33.24
AV	11.5883G	38.87	54.00	-15.13	25.19	3	Horizontal	317	2.13	-	39.26	7.66	33.24
PK	17.3614G	64.46	68.20	-3.74	45.46	3	Horizontal	168	2.78	-	42.79	9.34	33.13

802.11a\_Nss1,(6Mbps)\_4TX

5825MHz\_TnomVnom

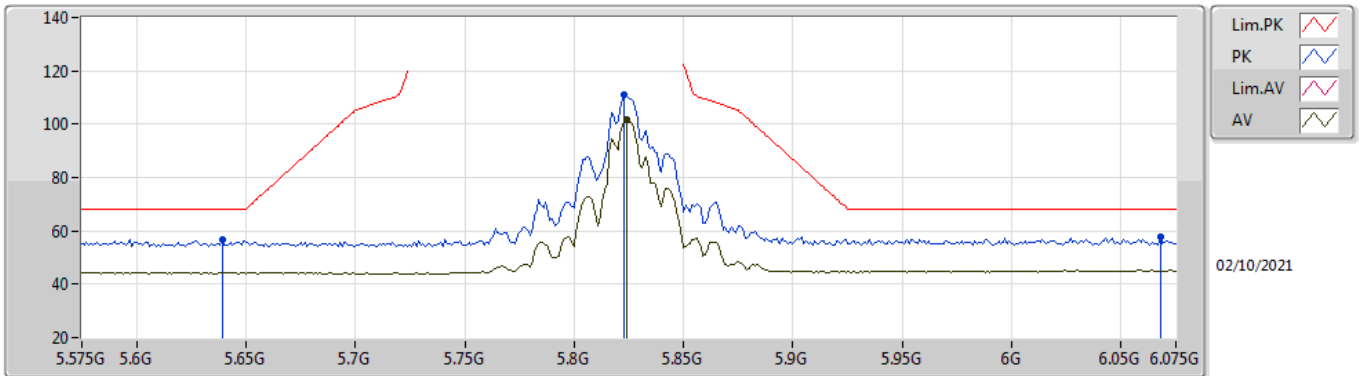


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.63G	56.73	68.20	-11.47	49.86	3	Vertical	51	2.28	-	33.84	5.17	32.14
PK	5.83G	117.66	Inf	-Inf	110.96	3	Vertical	51	2.28	-	33.76	5.09	32.15
AV	5.83G	108.00	Inf	-Inf	101.30	3	Vertical	51	2.28	-	33.76	5.09	32.15
PK	6.04G	57.52	68.20	-10.68	49.88	3	Vertical	51	2.28	-	34.26	5.54	32.16

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TnomVnom



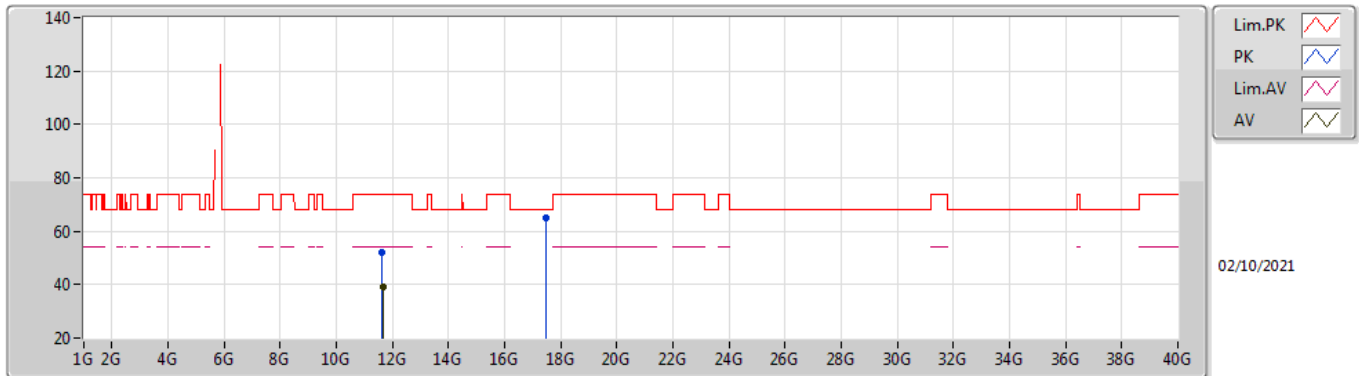
EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	56.66	68.20	-11.54	49.82	3	Horizontal	305	2.15	-	33.82	5.16	32.14
PK	5.823G	111.04	Inf	-Inf	104.37	3	Horizontal	305	2.15	-	33.75	5.07	32.15
AV	5.824G	101.52	Inf	-Inf	94.85	3	Horizontal	305	2.15	-	33.75	5.07	32.15
PK	6.068G	57.61	68.20	-10.59	49.93	3	Horizontal	305	2.15	-	34.34	5.50	32.16



### 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TnomVnom

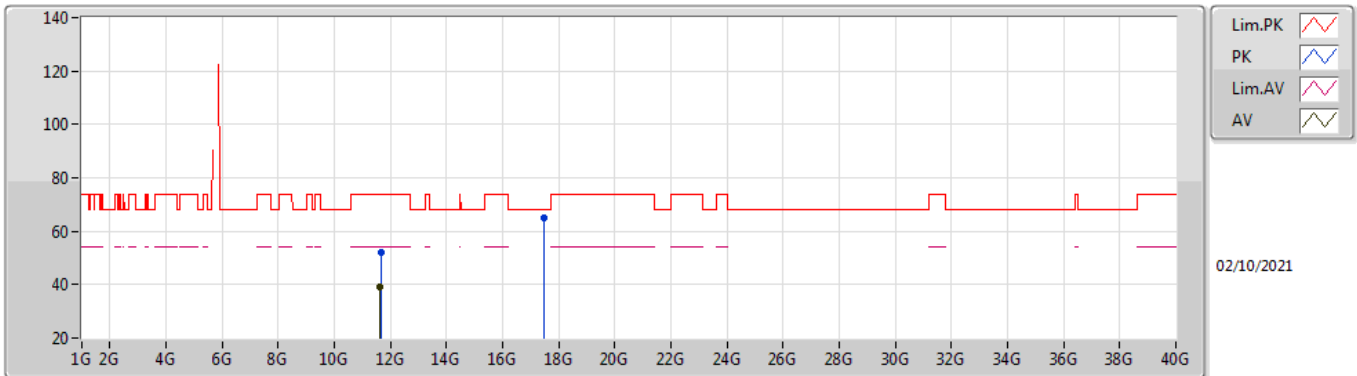


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	11.6459G	52.30	74.00	-21.70	38.53	3	Vertical	196	1.02	-	39.35	7.68	33.26
AV	11.6738G	38.95	54.00	-15.05	25.16	3	Vertical	196	1.02	-	39.37	7.69	33.27
PK	17.479G	65.07	68.20	-3.13	45.06	3	Vertical	277	1.95	-	43.65	9.35	32.99

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TnomVnom

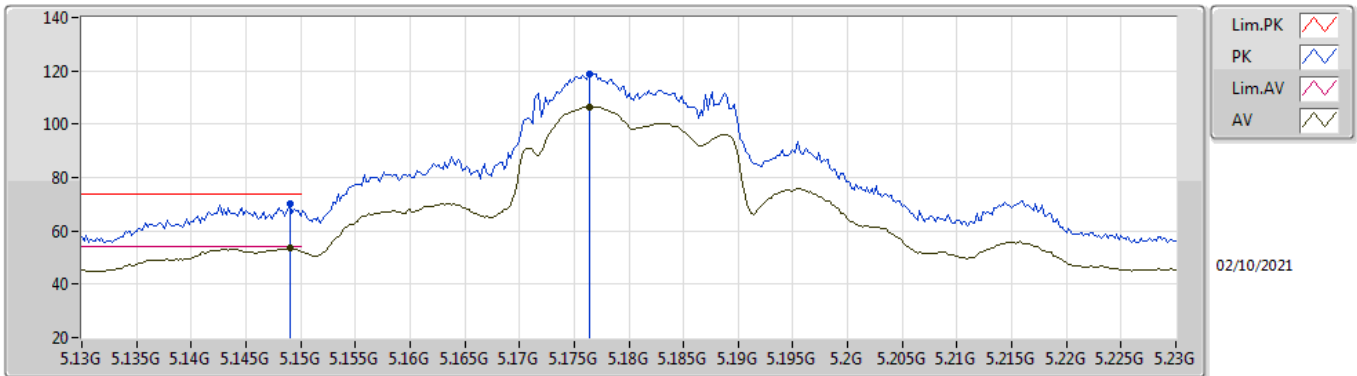


EUT\_Z\_4TX  
Setting 24  
02-B-N-2

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	11.6483G	52.12	74.00	-21.88	38.35	3	Horizontal	63	1.02	-	39.35	7.68	33.26
AV	11.6322G	38.98	54.00	-15.02	25.23	3	Horizontal	63	1.02	-	39.33	7.67	33.25
PK	17.477G	65.18	68.20	-3.02	45.19	3	Horizontal	172	2.79	-	43.64	9.35	33.00

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TnomVnom

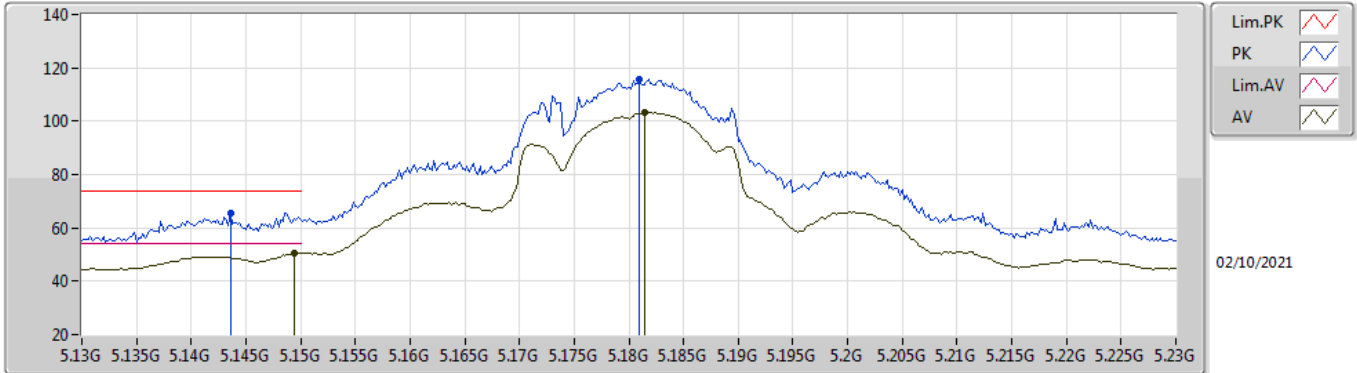


EUT\_Z\_4TX  
Setting 20.5  
02-B-N-2-10

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	5.149G	70.07	74.00	-3.93	63.72	3	Vertical	271	2.33	-	33.50	5.00	32.15
AV	5.149G	53.54	54.00	-0.46	47.19	3	Vertical	271	2.33	-	33.50	5.00	32.15
PK	5.1764G	119.03	Inf	-Inf	112.63	3	Vertical	271	2.33	-	33.50	5.05	32.15
AV	5.1764G	106.61	Inf	-Inf	100.21	3	Vertical	271	2.33	-	33.50	5.05	32.15

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TnomVnom

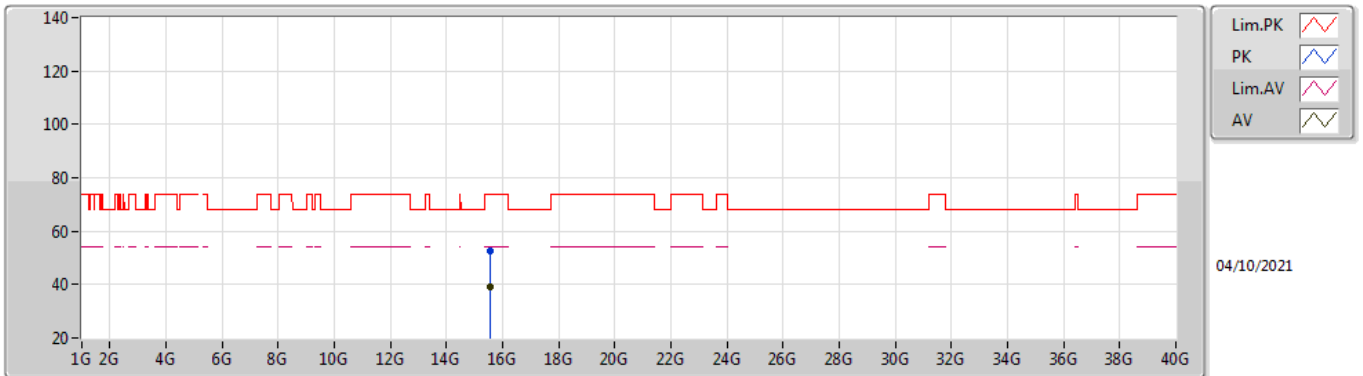


EUT Z\_4TX  
Setting 20.5  
02-B-N-2-10

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	5.1436G	65.69	74.00	-8.31	59.35	3	Horizontal	326	2.56	-	33.50	4.99	32.15
AV	5.1494G	50.76	54.00	-3.24	44.41	3	Horizontal	326	2.56	-	33.50	5.00	32.15
PK	5.181G	115.68	Inf	-Inf	109.27	3	Horizontal	326	2.56	-	33.50	5.06	32.15
AV	5.1814G	103.17	Inf	-Inf	96.76	3	Horizontal	326	2.56	-	33.50	5.06	32.15

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TnomVnom

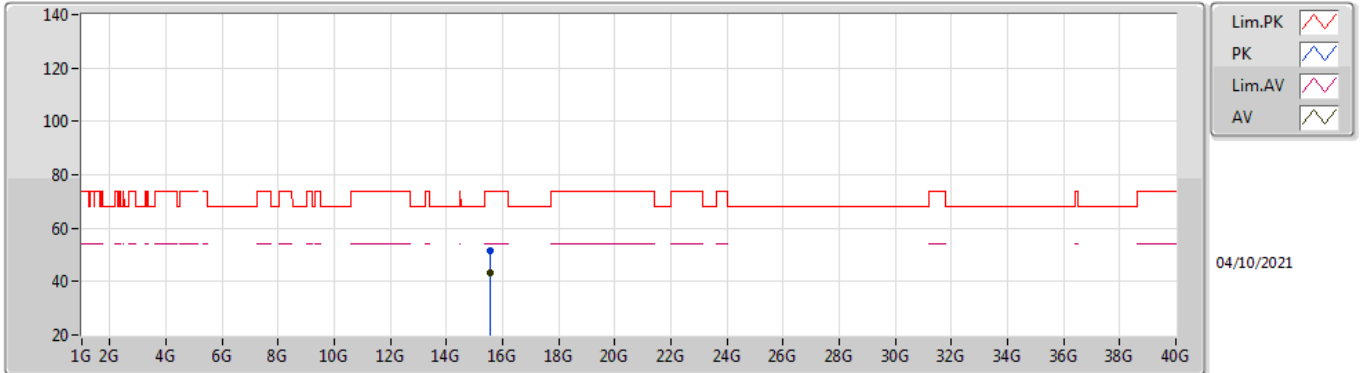


EUT Z\_4TX  
Setting 20.5  
02-B-S-8

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	15.53884G	52.49	74.00	-21.51	38.87	3	Vertical	155	1.70	-	37.78	9.04	33.20
AV	15.53704G	39.01	54.00	-14.99	25.37	3	Vertical	155	1.70	-	37.79	9.04	33.19

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TnomVnom

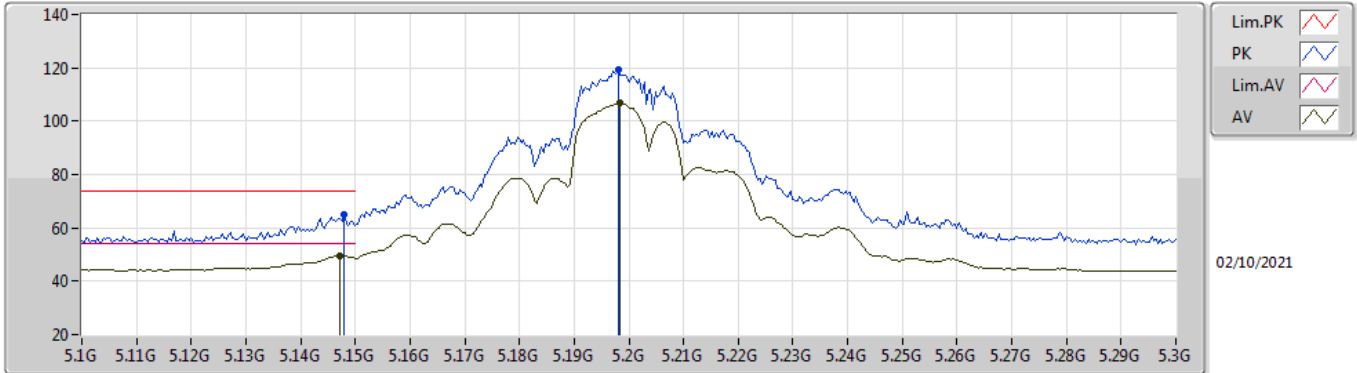


EUT Z\_4TX  
Setting 20.5  
02-B-S-8

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	15.5439G	51.76	74.00	-22.24	38.15	3	Horizontal	224	2.17	-	37.77	9.04	33.20
AV	15.53998G	43.03	54.00	-10.97	29.41	3	Horizontal	224	2.17	-	37.78	9.04	33.20

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TnomVnom

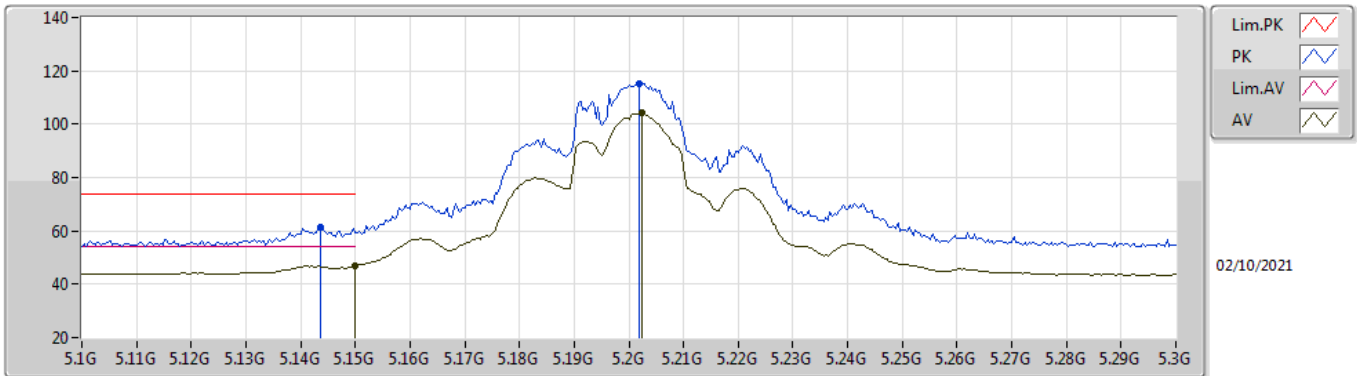


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.148G	64.81	74.00	-9.19	58.46	3	Vertical	273	2.21	-	33.50	5.00	32.15
AV	5.1472G	49.73	54.00	-4.27	43.39	3	Vertical	273	2.21	-	33.50	4.99	32.15
PK	5.198G	119.35	Inf	-Inf	112.90	3	Vertical	273	2.21	-	33.50	5.10	32.15
AV	5.1984G	106.67	Inf	-Inf	100.22	3	Vertical	273	2.21	-	33.50	5.10	32.15

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TnomVnom



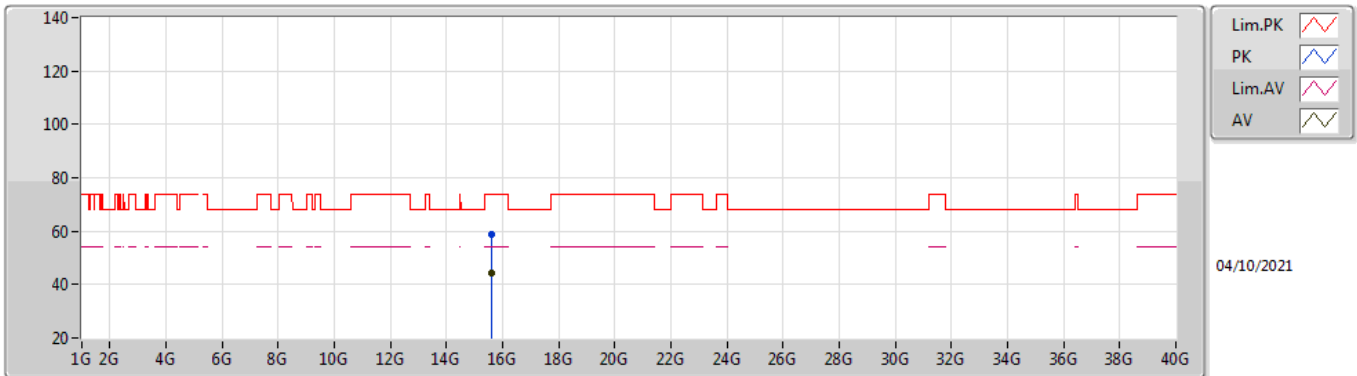
EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.1436G	61.39	74.00	-12.61	55.05	3	Horizontal	141	2.34	-	33.50	4.99	32.15
AV	5.15G	46.85	54.00	-7.15	40.50	3	Horizontal	141	2.34	-	33.50	5.00	32.15
PK	5.202G	115.40	Inf	-Inf	108.95	3	Horizontal	141	2.34	-	33.50	5.10	32.15
AV	5.2024G	104.07	Inf	-Inf	97.62	3	Horizontal	141	2.34	-	33.50	5.10	32.15



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TnomVnom

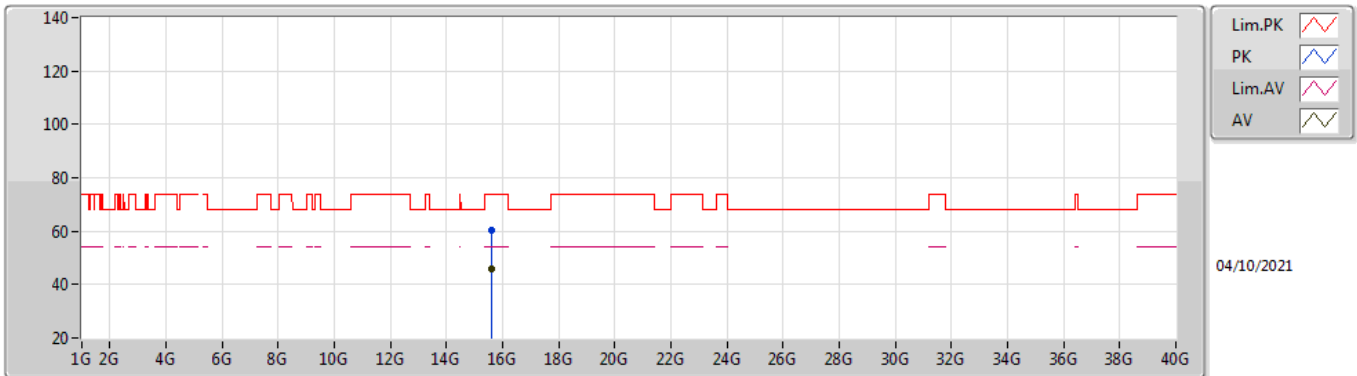


EUT\_Z\_4TX  
Setting 24  
02-B-S-8

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	15.59408G	58.79	74.00	-15.21	45.37	3	Vertical	194	1.76	-	37.62	9.06	33.26
AV	15.59612G	44.12	54.00	-9.88	30.71	3	Vertical	194	1.76	-	37.61	9.06	33.26

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TnomVnom

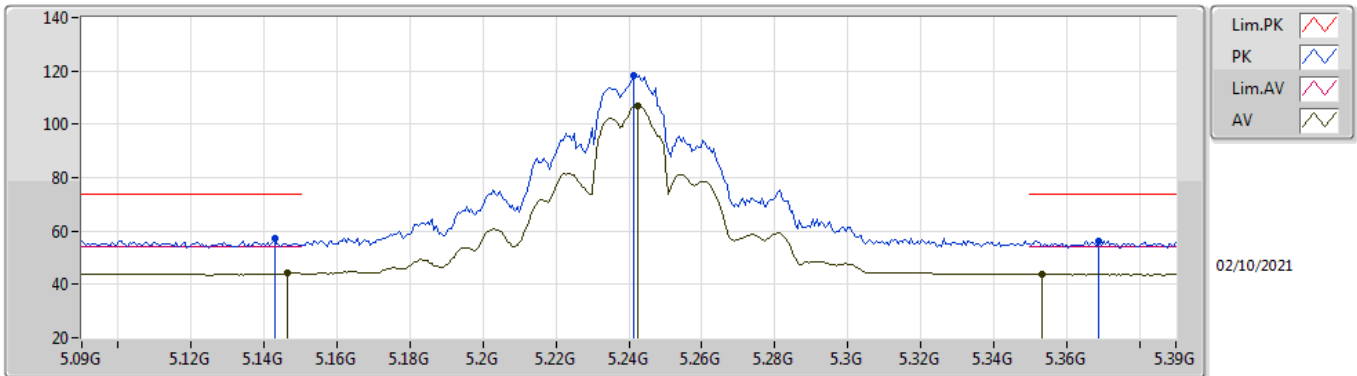


EUT\_Z\_4TX  
Setting 24  
02-B-S-8

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	15.59028G	60.50	74.00	-13.50	47.07	3	Horizontal	220	1.72	-	37.63	9.06	33.26
AV	15.594G	45.65	54.00	-8.35	32.23	3	Horizontal	220	1.72	-	37.62	9.06	33.26

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TnomVnom

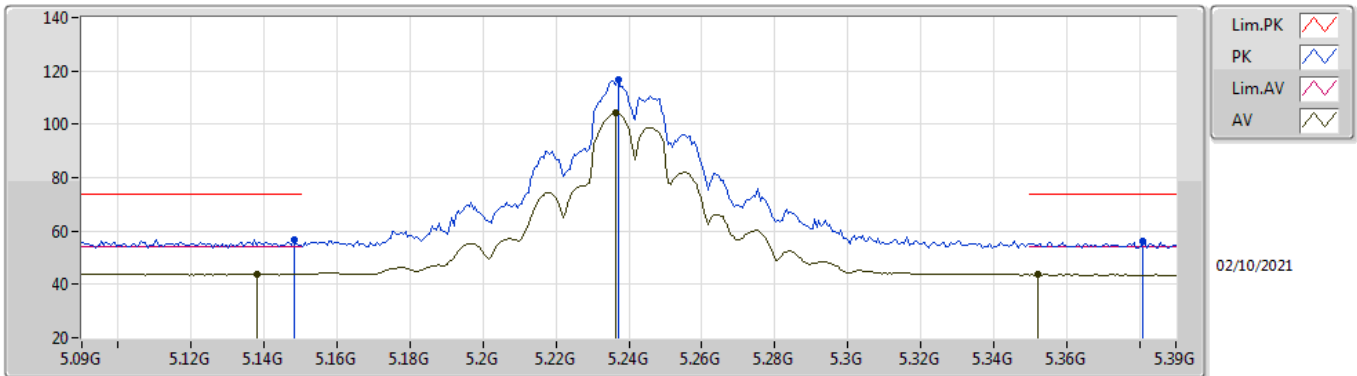


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.1428G	57.07	74.00	-16.93	50.73	3	Vertical	12	2.38	-	33.50	4.99	32.15
AV	5.1464G	44.16	54.00	-9.84	37.82	3	Vertical	12	2.38	-	33.50	4.99	32.15
PK	5.2412G	118.45	Inf	-Inf	111.94	3	Vertical	12	2.38	-	33.58	5.08	32.15
AV	5.2424G	106.79	Inf	-Inf	100.28	3	Vertical	12	2.38	-	33.58	5.08	32.15
PK	5.369G	56.45	74.00	-17.55	49.83	3	Vertical	12	2.38	-	33.74	5.02	32.14
AV	5.3534G	43.81	54.00	-10.19	37.22	3	Vertical	12	2.38	-	33.71	5.02	32.14

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TnomVnom

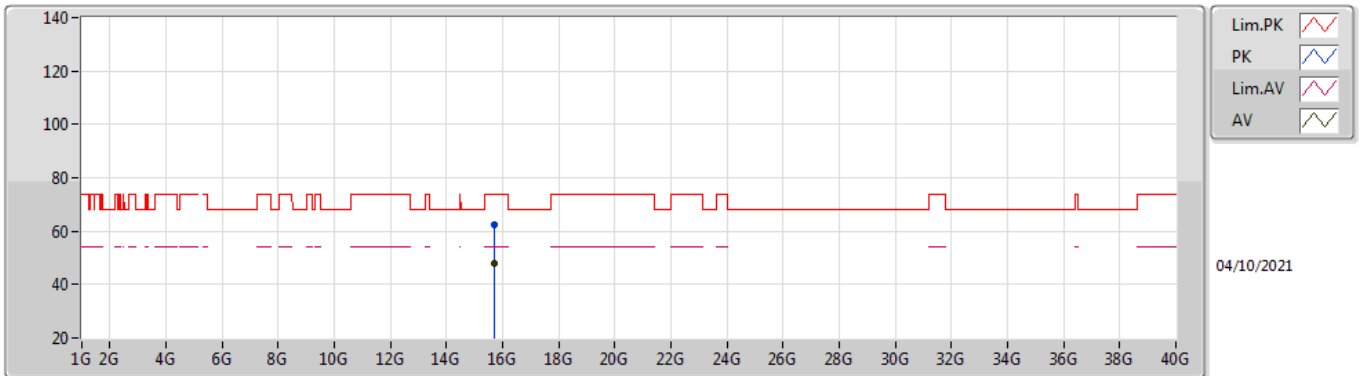


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.1482G	56.97	74.00	-17.03	50.62	3	Horizontal	327	2.39	-	33.50	5.00	32.15
AV	5.138G	43.91	54.00	-10.09	37.58	3	Horizontal	327	2.39	-	33.50	4.98	32.15
PK	5.237G	116.68	Inf	-Inf	110.18	3	Horizontal	327	2.39	-	33.57	5.08	32.15
AV	5.2364G	104.30	Inf	-Inf	97.80	3	Horizontal	327	2.39	-	33.57	5.08	32.15
PK	5.381G	56.10	74.00	-17.90	49.47	3	Horizontal	327	2.39	-	33.76	5.01	32.14
AV	5.3522G	43.67	54.00	-10.33	37.09	3	Horizontal	327	2.39	-	33.70	5.02	32.14

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TnomVnom

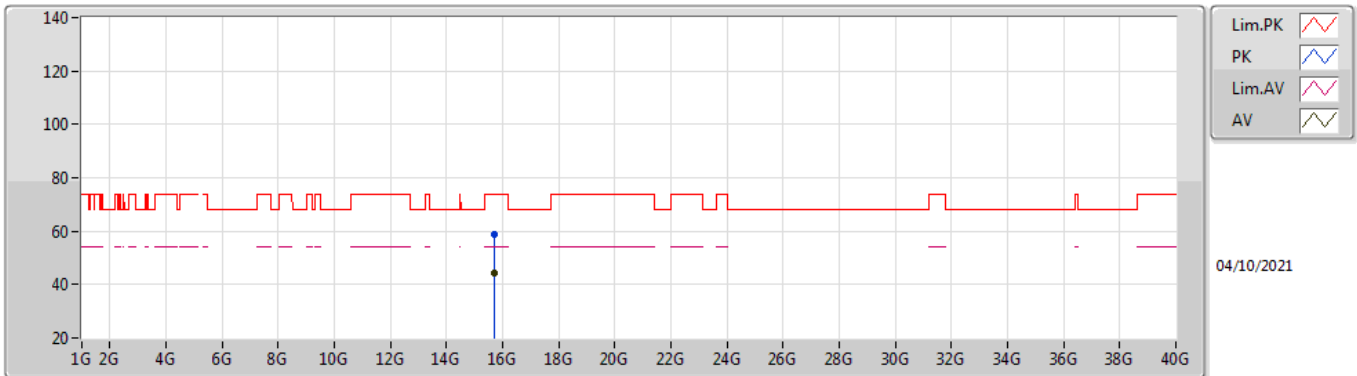


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	15.71852G	62.39	74.00	-11.61	49.30	3	Vertical	194	1.78	-	37.40	9.10	33.41
AV	15.7162G	47.72	54.00	-6.28	34.63	3	Vertical	194	1.78	-	37.40	9.10	33.41

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TnomVnom

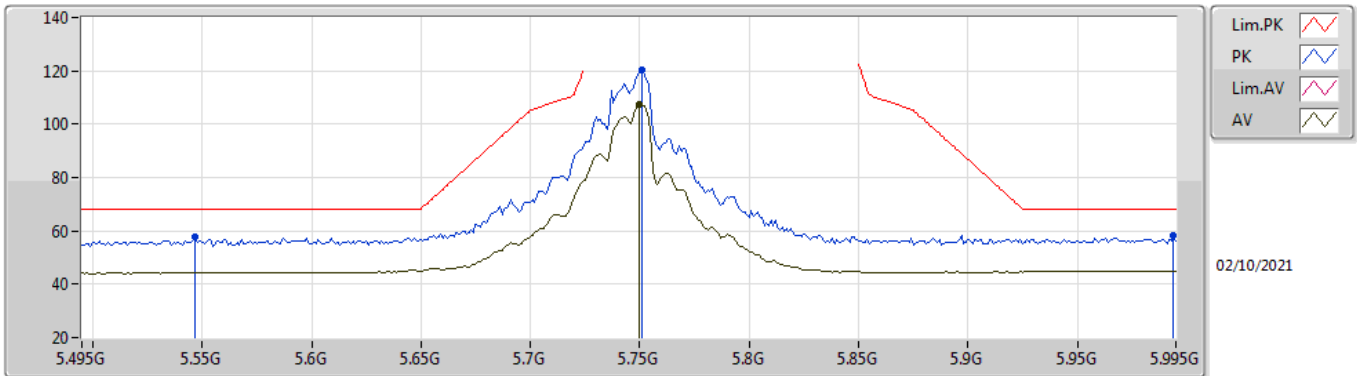


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	15.72304G	58.86	74.00	-15.14	45.77	3	Horizontal	120	2.09	-	37.40	9.10	33.41
AV	15.71372G	44.21	54.00	-9.79	31.11	3	Horizontal	120	2.09	-	37.40	9.10	33.40

802.11ax HEW20\_Nss1,(MCS0)\_4TX

5745MHz\_TnomVnom

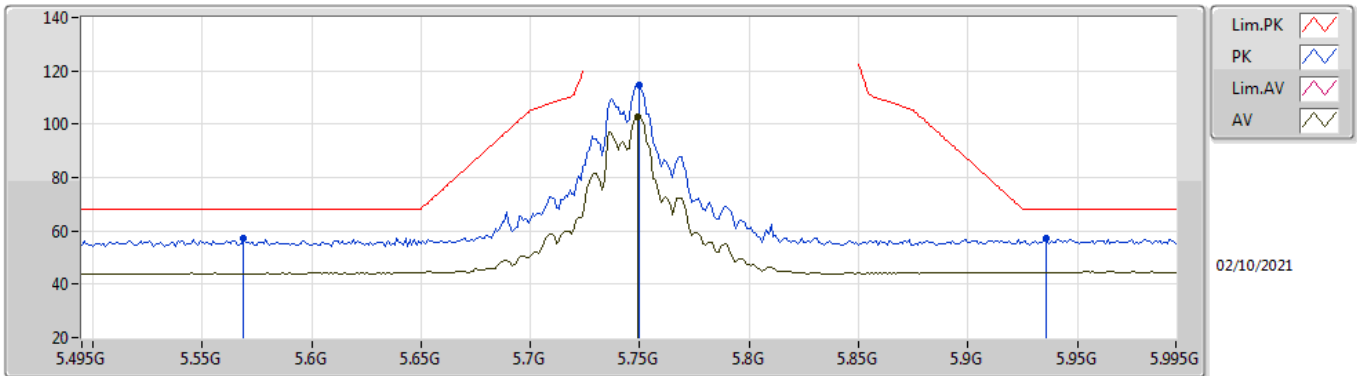


EUT Z\_4TX  
Setting 21.5  
02-B-N-2-10

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	5.547G	57.60	68.20	-10.60	50.68	3	Vertical	333	2.36	-	33.90	5.15	32.13
PK	5.751G	120.45	Inf	-Inf	113.75	3	Vertical	333	2.36	-	33.80	5.05	32.15
AV	5.75G	107.58	Inf	-Inf	100.87	3	Vertical	333	2.36	-	33.80	5.05	32.14
PK	5.994G	58.33	68.20	-9.87	50.81	3	Vertical	333	2.36	-	34.10	5.58	32.16

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TnomVnom



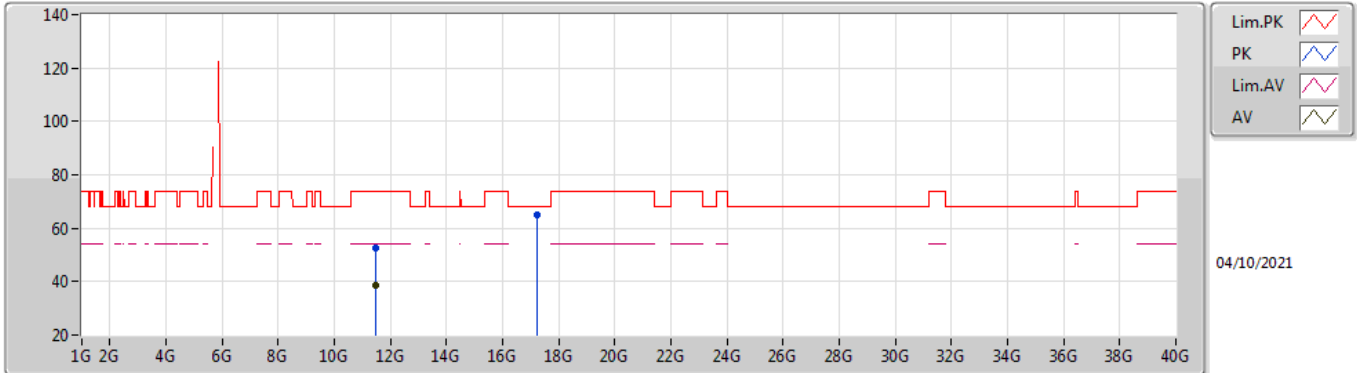
EUT Z\_4TX  
Setting 21.5  
02-B-N-2-10

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	5.569G	57.35	68.20	-10.85	50.41	3	Horizontal	209	2.09	-	33.90	5.17	32.13
PK	5.75G	114.80	Inf	-Inf	108.09	3	Horizontal	209	2.09	-	33.80	5.05	32.14
AV	5.749G	102.99	Inf	-Inf	96.28	3	Horizontal	209	2.09	-	33.80	5.05	32.14
PK	5.936G	57.39	68.20	-10.81	50.07	3	Horizontal	209	2.09	-	34.07	5.41	32.16



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TnomVnom

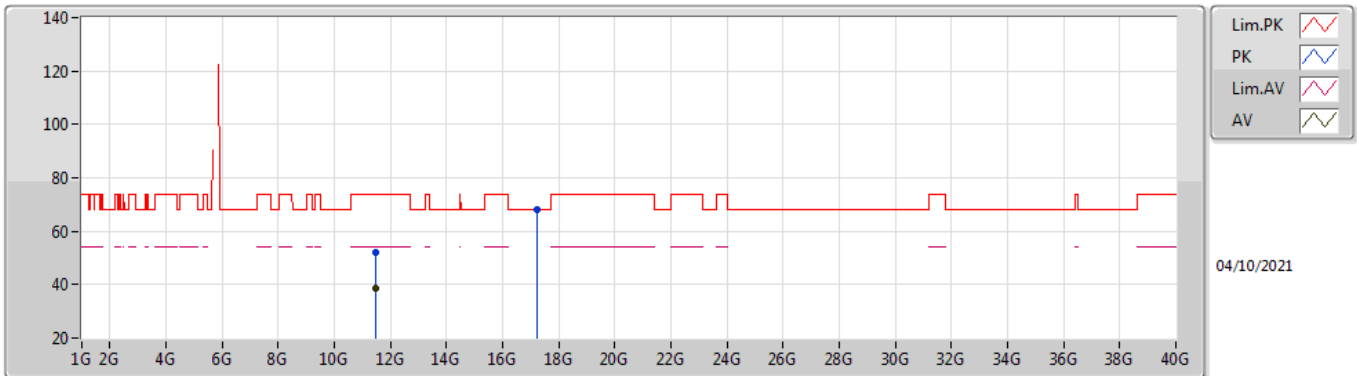


EUT\_Z\_4TX  
Setting 21.5  
02-B-S-8

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	11.49338G	52.33	74.00	-21.67	38.94	3	Vertical	62	1.75	-	38.99	7.62	33.22
AV	11.48968G	38.38	54.00	-15.62	25.00	3	Vertical	62	1.75	-	38.98	7.62	33.22
PK	17.2395G	65.13	68.20	-3.07	46.96	3	Vertical	278	1.92	-	42.12	9.32	33.27

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TnomVnom

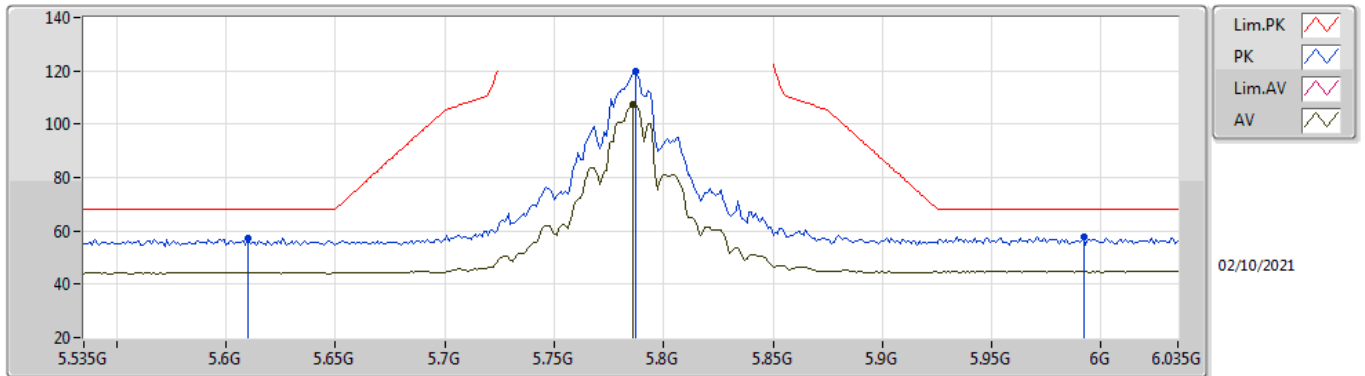


EUT\_Z\_4TX  
Setting 21.5  
02-B-S-8

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	11.48732G	52.24	74.00	-21.76	38.87	3	Horizontal	81	2.83	-	38.97	7.62	33.22
AV	11.48626G	38.45	54.00	-15.55	25.08	3	Horizontal	81	2.83	-	38.97	7.62	33.22
PK	17.241G	68.11	68.20	-0.09	49.94	3	Horizontal	142	3.00	-	42.12	9.32	33.27

802.11ax HEW20\_Nss1,(MCS0)\_4TX

5785MHz\_TnomVnom

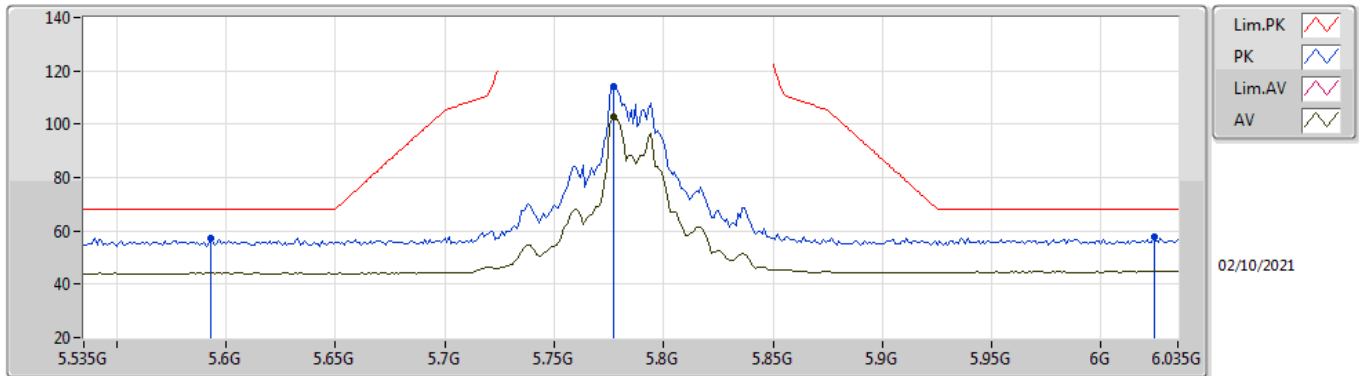


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.61G	57.50	68.20	-10.70	50.57	3	Vertical	259	2.69	-	33.88	5.19	32.14
PK	5.787G	119.64	Inf	-Inf	113.05	3	Vertical	259	2.69	-	33.73	5.01	32.15
AV	5.786G	107.60	Inf	-Inf	101.01	3	Vertical	259	2.69	-	33.73	5.01	32.15
PK	5.992G	57.75	68.20	-10.45	50.23	3	Vertical	259	2.69	-	34.10	5.58	32.16

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TnomVnom

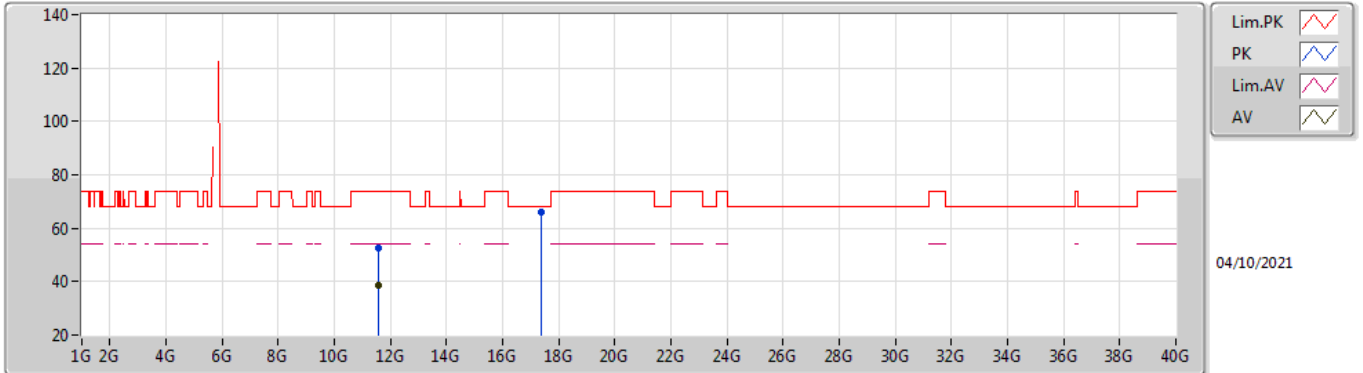


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.593G	57.39	68.20	-10.81	50.44	3	Horizontal	140	2.28	-	33.90	5.19	32.14
PK	5.777G	114.19	Inf	-Inf	107.57	3	Horizontal	140	2.28	-	33.75	5.02	32.15
AV	5.777G	102.61	Inf	-Inf	95.99	3	Horizontal	140	2.28	-	33.75	5.02	32.15
PK	6.024G	57.70	68.20	-10.50	50.10	3	Horizontal	140	2.28	-	34.20	5.56	32.16

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TnomVnom

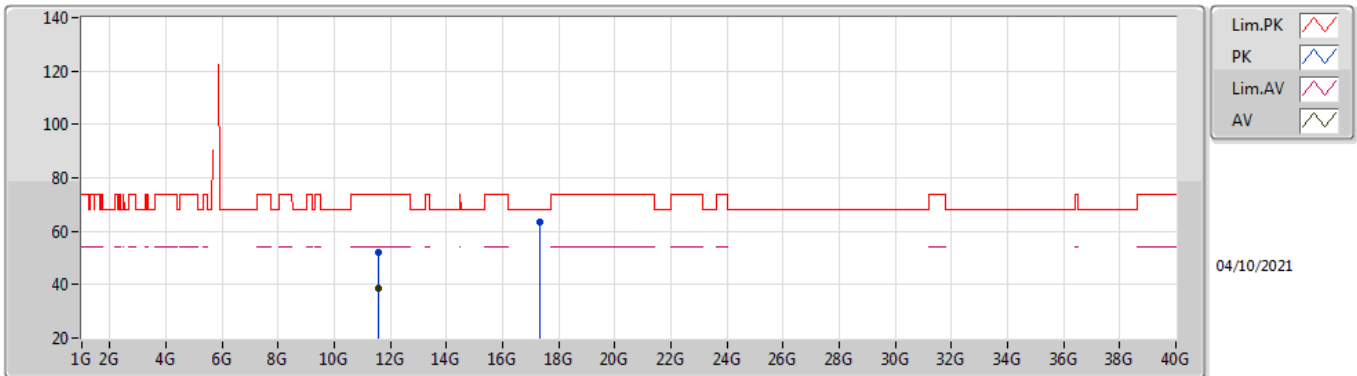


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	11.57246G	52.59	74.00	-21.41	38.96	3	Vertical	249	2.93	-	39.22	7.65	33.24
AV	11.57186G	38.47	54.00	-15.53	24.84	3	Vertical	249	2.93	-	39.22	7.65	33.24
PK	17.353G	65.96	68.20	-2.24	47.04	3	Vertical	278	2.03	-	42.72	9.34	33.14

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TnomVnom

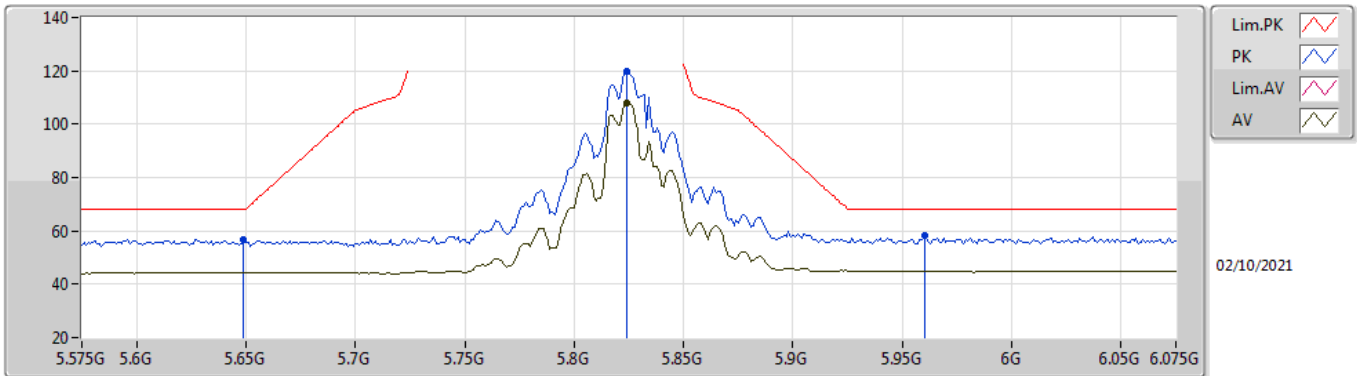


EUT\_Z\_4TX  
Setting 24  
02-B-S-8

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	11.57212G	52.01	74.00	-21.99	38.38	3	Horizontal	3	1.26	-	39.22	7.65	33.24
AV	11.5685G	38.53	54.00	-15.47	24.91	3	Horizontal	3	1.26	-	39.21	7.65	33.24
PK	17.3476G	63.27	68.20	-4.93	44.40	3	Horizontal	200	2.80	-	42.68	9.33	33.14

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TnomVnom

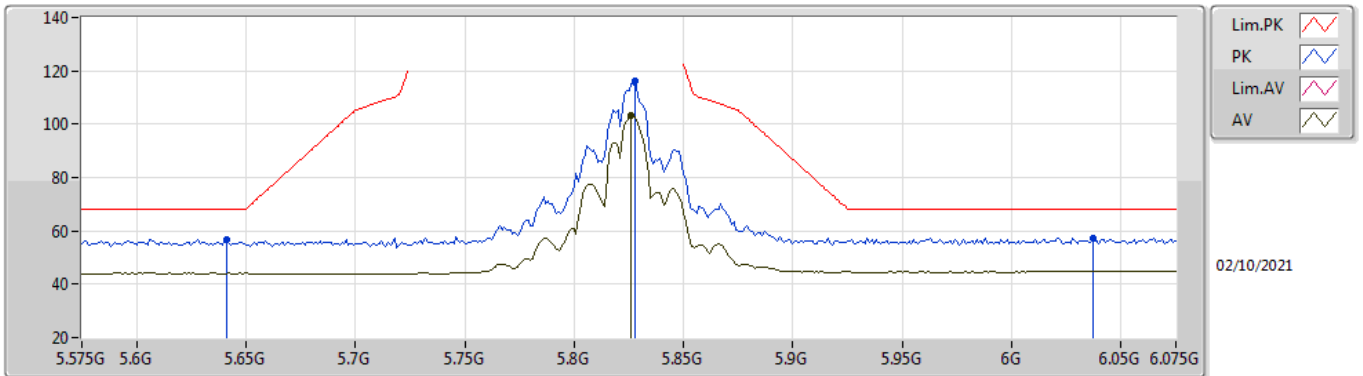


EUT Z\_4TX  
Setting 24  
02-B-N-2-10

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	56.74	68.20	-11.46	49.93	3	Vertical	90	2.31	-	33.80	5.15	32.14
PK	5.824G	119.66	Inf	-Inf	112.99	3	Vertical	90	2.31	-	33.75	5.07	32.15
AV	5.824G	107.85	Inf	-Inf	101.18	3	Vertical	90	2.31	-	33.75	5.07	32.15
PK	5.96G	58.20	68.20	-10.00	50.78	3	Vertical	90	2.31	-	34.10	5.48	32.16

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TnomVnom



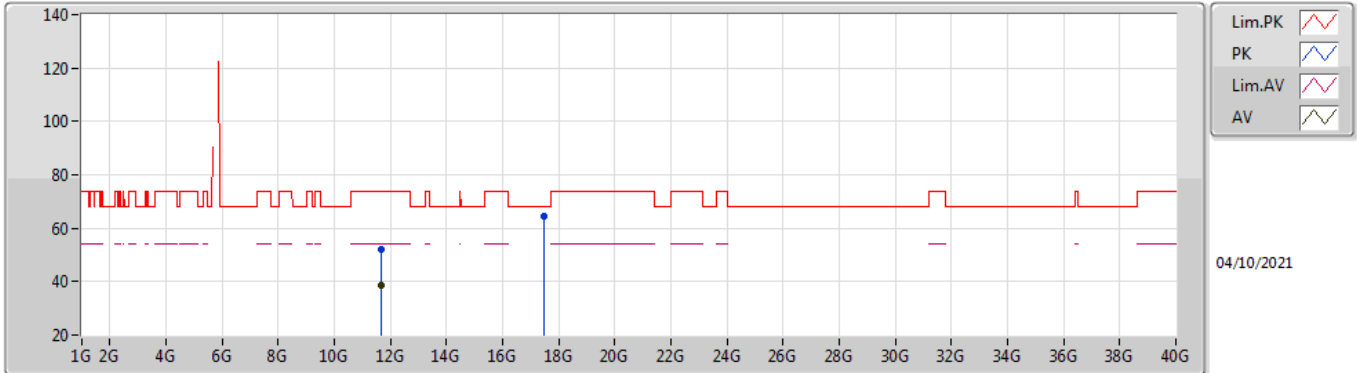
EUT Z\_4TX  
Setting 24  
02-B-N-2-10

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	56.74	68.20	-11.46	49.90	3	Horizontal	332	2.60	-	33.82	5.16	32.14
PK	5.828G	116.00	Inf	-Inf	109.31	3	Horizontal	332	2.60	-	33.76	5.08	32.15
AV	5.826G	103.36	Inf	-Inf	96.68	3	Horizontal	332	2.60	-	33.75	5.08	32.15
PK	6.037G	57.42	68.20	-10.78	49.79	3	Horizontal	332	2.60	-	34.25	5.54	32.16



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TnomVnom

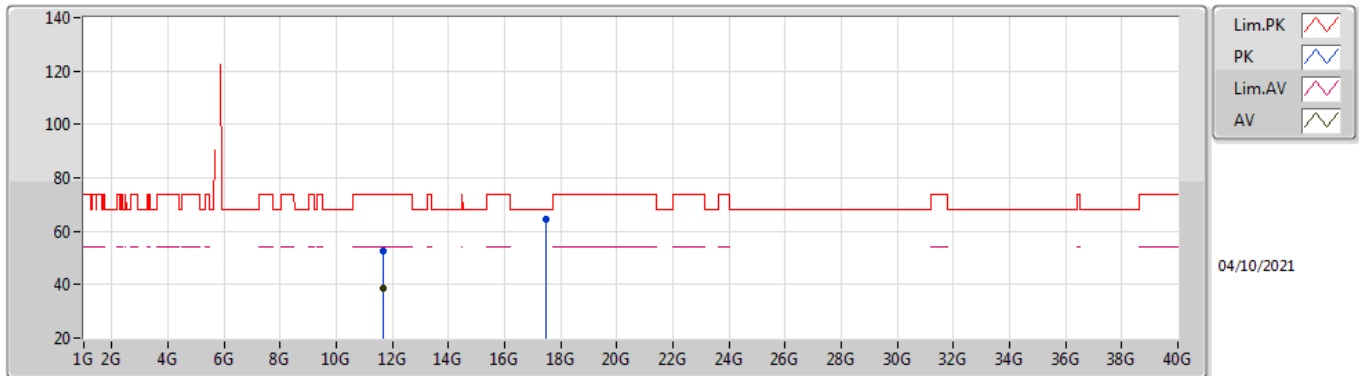


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	11.65158G	52.12	74.00	-21.88	38.35	3	Vertical	98	2.18	-	39.35	7.68	33.26
AV	11.65482G	38.56	54.00	-15.44	24.79	3	Vertical	98	2.18	-	39.35	7.68	33.26
PK	17.47906G	64.44	68.20	-3.76	44.43	3	Vertical	24	1.40	-	43.65	9.35	32.99

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TnomVnom

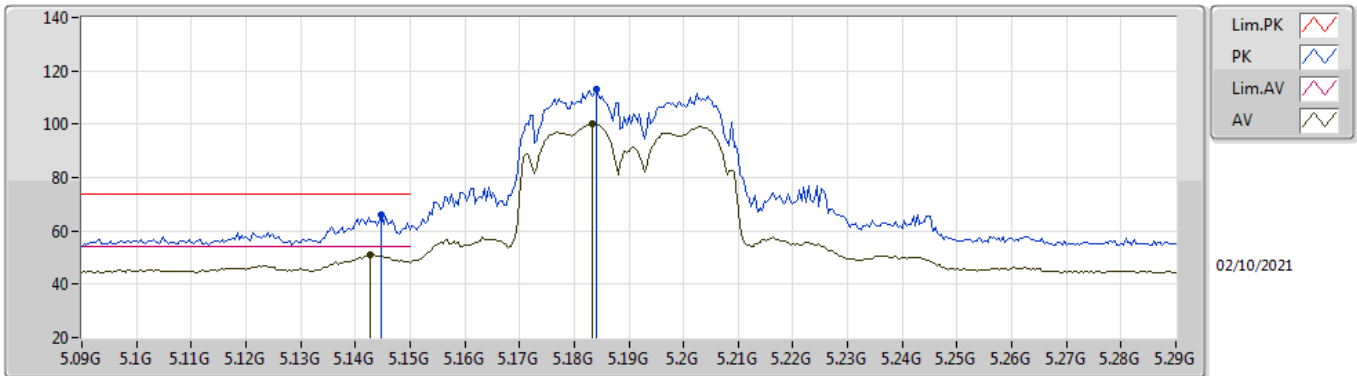


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	11.65448G	52.52	74.00	-21.48	38.75	3	Horizontal	300	2.65	-	39.35	7.68	33.26
AV	11.65174G	38.59	54.00	-15.41	24.82	3	Horizontal	300	2.65	-	39.35	7.68	33.26
PK	17.4788G	64.34	68.20	-3.86	44.33	3	Horizontal	197	1.43	-	43.65	9.35	32.99

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TnomVnom

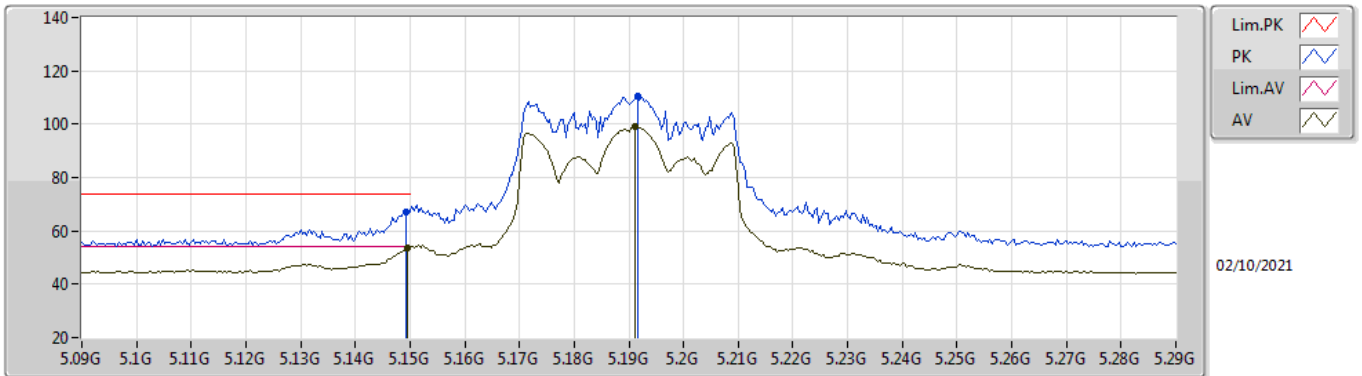


EUT\_Z\_4TX  
Setting 17.5  
02-B-N-2-10

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	5.1448G	65.78	74.00	-8.22	59.44	3	Vertical	267	2.30	-	33.50	4.99	32.15
AV	5.1428G	51.01	54.00	-2.99	44.67	3	Vertical	267	2.30	-	33.50	4.99	32.15
PK	5.184G	112.88	Inf	-Inf	106.46	3	Vertical	267	2.30	-	33.50	5.07	32.15
AV	5.1832G	100.26	Inf	-Inf	93.84	3	Vertical	267	2.30	-	33.50	5.07	32.15

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

#### 5190MHz\_TnomVnom

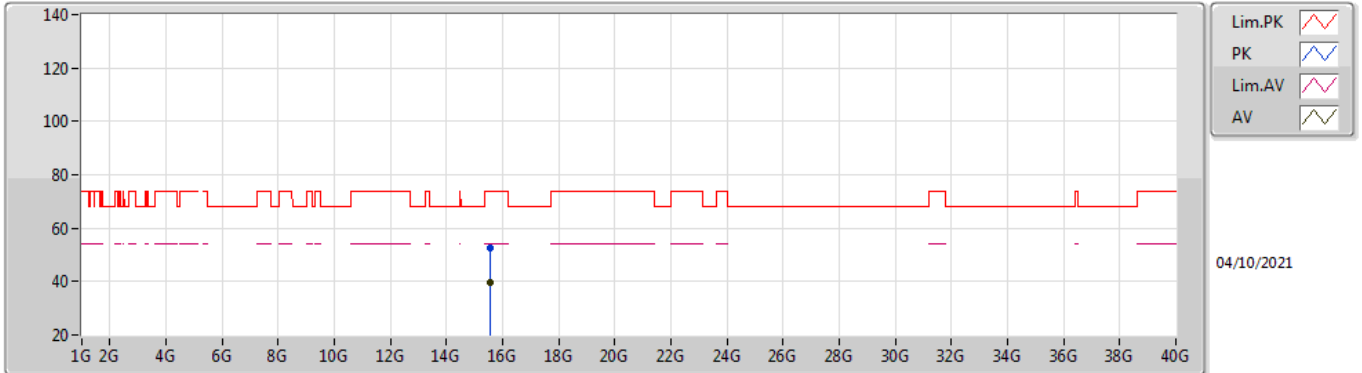


EUT Z\_4TX  
Setting 17.5  
02-B-N-2-10

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	5.1492G	66.99	74.00	-7.01	60.64	3	Horizontal	327	2.61	-	33.50	5.00	32.15
AV	5.1496G	53.72	54.00	-0.28	47.37	3	Horizontal	327	2.61	-	33.50	5.00	32.15
PK	5.1916G	110.50	Inf	-Inf	104.07	3	Horizontal	327	2.61	-	33.50	5.08	32.15
AV	5.1912G	99.02	Inf	-Inf	92.59	3	Horizontal	327	2.61	-	33.50	5.08	32.15

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TnomVnom

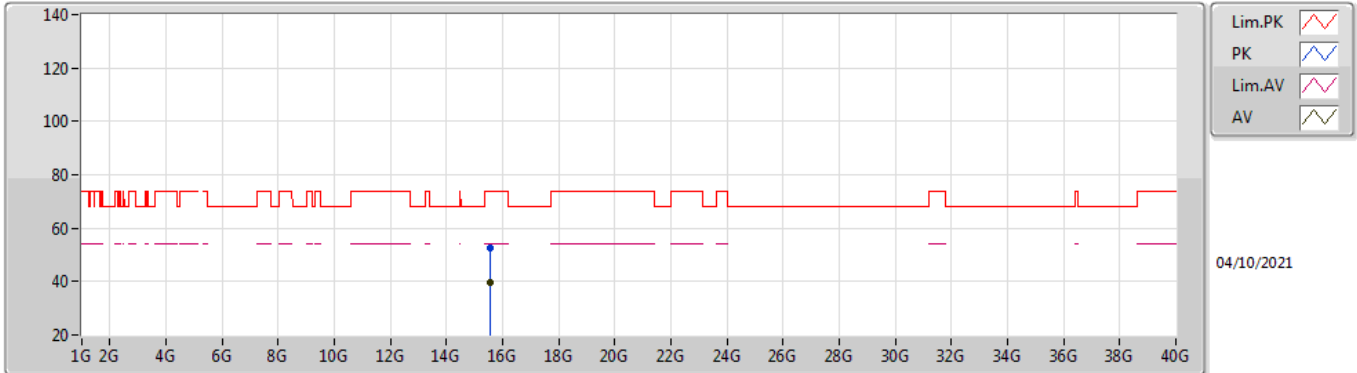


EUT Z\_4TX  
Setting 17.5  
02-B-S-8

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	15.56754G	52.40	74.00	-21.60	38.88	3	Vertical	130	2.08	-	37.70	9.05	33.23
AV	15.56502G	39.45	54.00	-14.55	25.93	3	Vertical	130	2.08	-	37.70	9.05	33.23

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TnomVnom

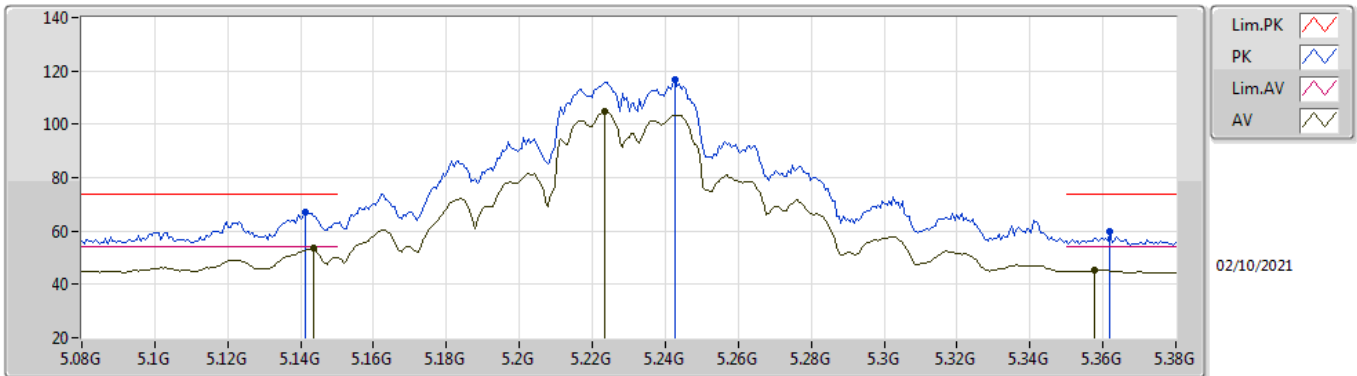


EUT Z\_4TX  
Setting 17.5  
02-B-S-8

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	15.57002G	52.53	74.00	-21.47	39.02	3	Horizontal	317	1.85	-	37.69	9.05	33.23
AV	15.56556G	39.50	54.00	-14.50	25.98	3	Horizontal	317	1.85	-	37.70	9.05	33.23

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TnomVnom

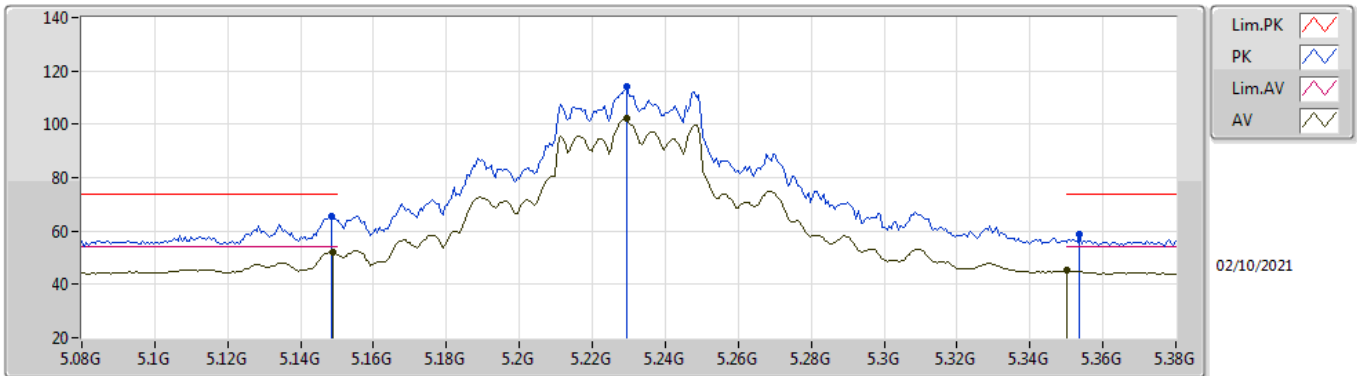


EUT\_Z\_4TX  
Setting 21.5  
02-B-N-2-10

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	5.1412G	67.29	74.00	-6.71	60.96	3	Vertical	270	2.09	-	33.50	4.98	32.15
AV	5.1436G	53.68	54.00	-0.32	47.34	3	Vertical	270	2.09	-	33.50	4.99	32.15
PK	5.2426G	116.53	Inf	-Inf	110.01	3	Vertical	270	2.09	-	33.59	5.08	32.15
AV	5.2234G	104.87	Inf	-Inf	98.38	3	Vertical	270	2.09	-	33.55	5.09	32.15
PK	5.362G	60.05	74.00	-13.95	53.45	3	Vertical	270	2.09	-	33.72	5.02	32.14
AV	5.3578G	45.35	54.00	-8.65	38.75	3	Vertical	270	2.09	-	33.72	5.02	32.14

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TnomVnom



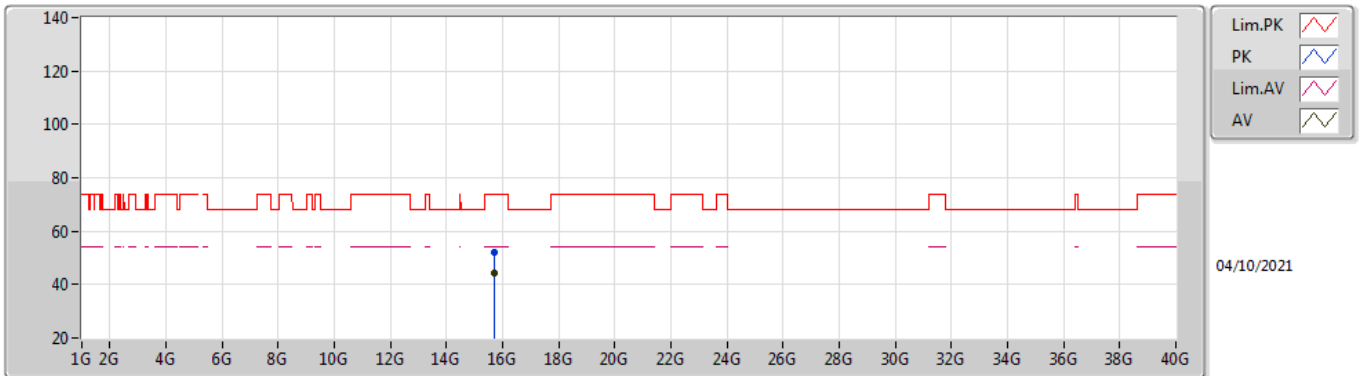
EUT\_Z\_4TX  
Setting 21.5  
02-B-N-2-10

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	5.1484G	65.34	74.00	-8.66	58.99	3	Horizontal	242	2.44	-	33.50	5.00	32.15
AV	5.149G	51.98	54.00	-2.02	45.63	3	Horizontal	242	2.44	-	33.50	5.00	32.15
PK	5.2294G	114.02	Inf	-Inf	107.52	3	Horizontal	242	2.44	-	33.56	5.09	32.15
AV	5.2294G	101.99	Inf	-Inf	95.49	3	Horizontal	242	2.44	-	33.56	5.09	32.15
PK	5.3536G	58.55	74.00	-15.45	51.96	3	Horizontal	242	2.44	-	33.71	5.02	32.14
AV	5.35G	45.11	54.00	-8.89	38.52	3	Horizontal	242	2.44	-	33.70	5.03	32.14



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TnomVnom

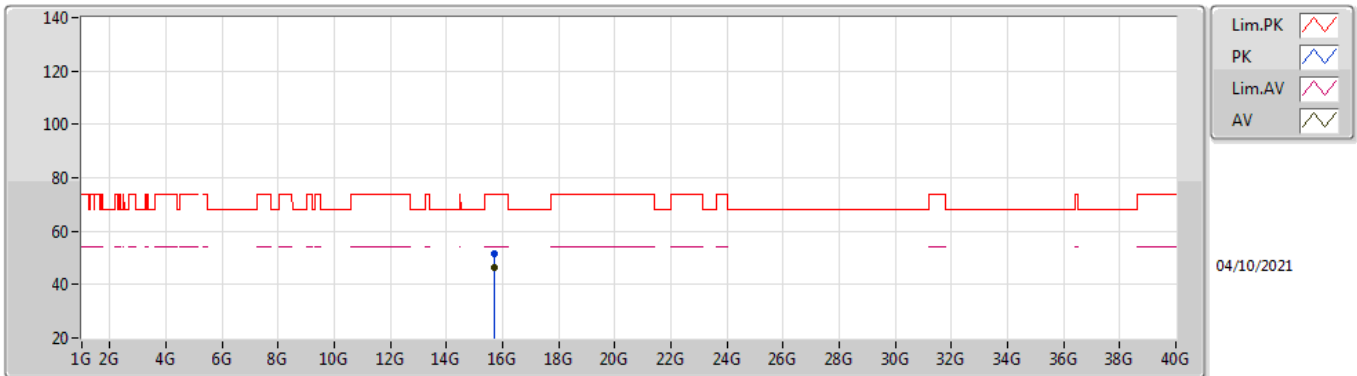


EUT\_Z\_4TX  
Setting 21.5  
02-B-S-8

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	15.69464G	52.09	74.00	-21.91	38.97	3	Vertical	150	2.05	-	37.41	9.09	33.38
AV	15.6873G	44.55	54.00	-9.45	31.40	3	Vertical	150	2.05	-	37.43	9.09	33.37

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TnomVnom

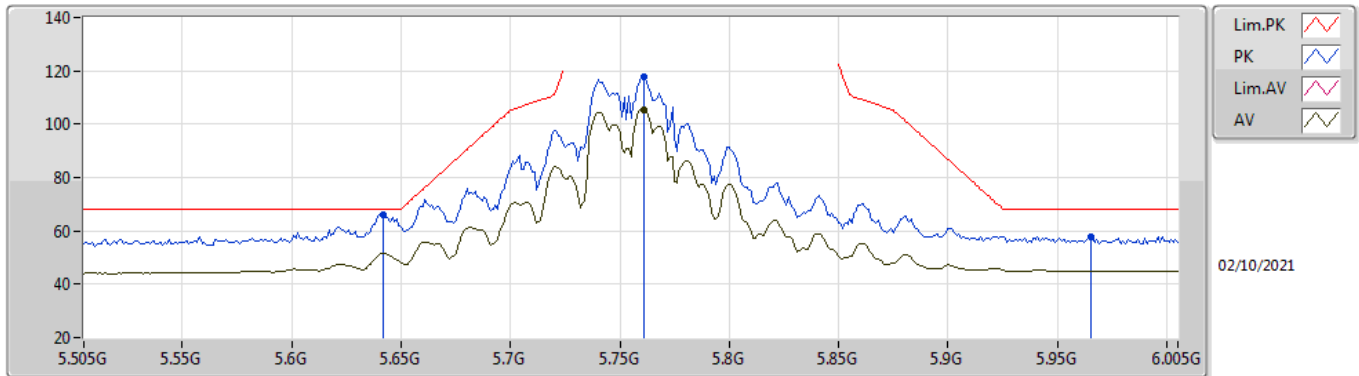


EUT\_Z\_4TX  
Setting 21.5  
02-B-S-8

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	15.68686G	51.54	74.00	-22.46	38.39	3	Horizontal	134	1.34	-	37.43	9.09	33.37
AV	15.69378G	46.45	54.00	-7.55	33.33	3	Horizontal	134	1.34	-	37.41	9.09	33.38

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TnomVnom

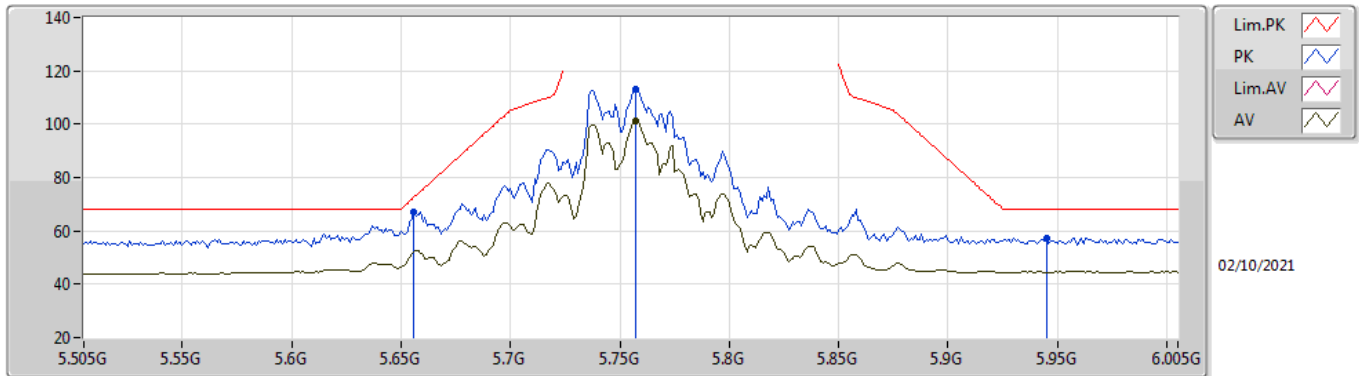


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	66.19	68.20	-2.01	59.35	3	Vertical	88	2.26	-	33.82	5.16	32.14
PK	5.761G	117.77	Inf	-Inf	111.10	3	Vertical	88	2.26	-	33.78	5.04	32.15
AV	5.761G	105.56	Inf	-Inf	98.89	3	Vertical	88	2.26	-	33.78	5.04	32.15
PK	5.965G	57.85	68.20	-10.35	50.42	3	Vertical	88	2.26	-	34.10	5.49	32.16

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TnomVnom

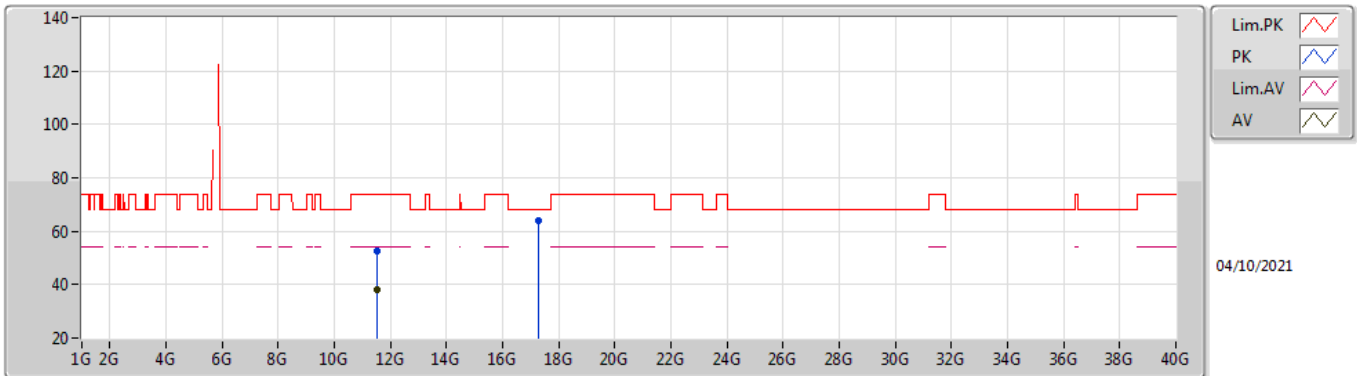


EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	5.656G	67.25	72.64	-5.39	60.46	3	Horizontal	107	2.95	-	33.79	5.14	32.14
PK	5.757G	113.35	Inf	-Inf	106.67	3	Horizontal	107	2.95	-	33.79	5.04	32.15
AV	5.757G	101.19	Inf	-Inf	94.51	3	Horizontal	107	2.95	-	33.79	5.04	32.15
PK	5.945G	57.43	68.20	-10.77	50.06	3	Horizontal	107	2.95	-	34.09	5.44	32.16

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TnomVnom



EUT Z\_4TX  
Setting 24  
02-B-S-8

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	11.51054G	52.61	74.00	-21.39	39.17	3	Vertical	337	2.23	-	39.03	7.63	33.22
AV	11.51276G	38.27	54.00	-15.73	24.82	3	Vertical	337	2.23	-	39.04	7.63	33.22
PK	17.262G	63.78	68.20	-4.42	45.50	3	Vertical	277	1.79	-	42.19	9.33	33.24

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TnomVnom

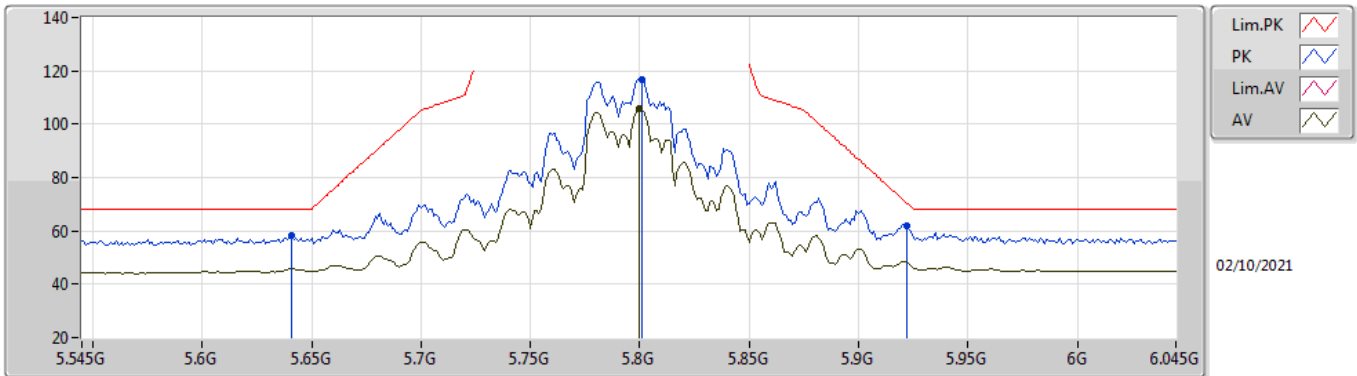


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	11.51062G	52.31	74.00	-21.69	38.87	3	Horizontal	112	1.80	-	39.03	7.63	33.22
AV	11.50524G	38.22	54.00	-15.78	24.79	3	Horizontal	112	1.80	-	39.02	7.63	33.22
PK	17.26248G	67.42	68.20	-0.78	49.14	3	Horizontal	142	3.00	-	42.19	9.33	33.24

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TnomVnom

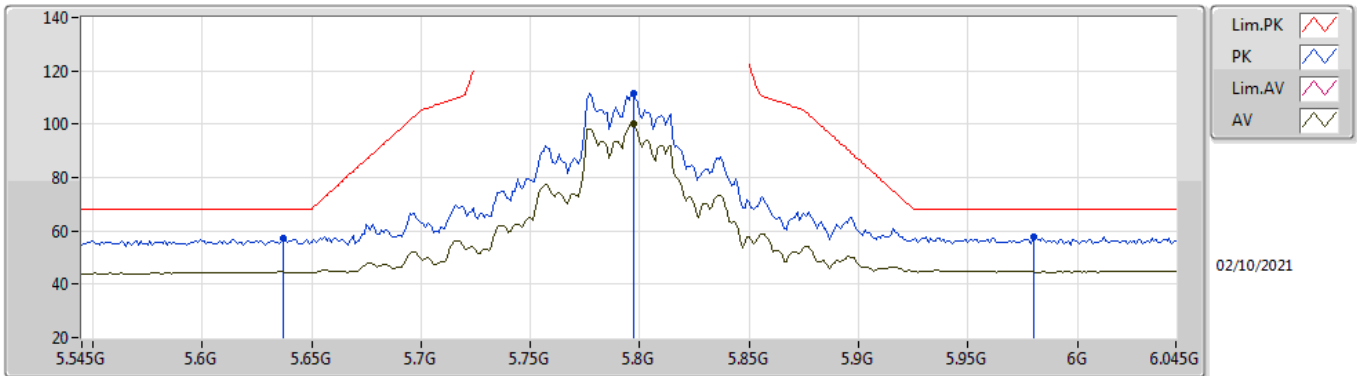


EUT Z\_4TX  
Setting 24  
02-B-N-2-10

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	58.13	68.20	-10.07	51.29	3	Vertical	86	2.22	-	33.82	5.16	32.14
PK	5.801G	116.97	Inf	-Inf	110.42	3	Vertical	86	2.22	-	33.70	5.00	32.15
AV	5.8G	105.70	Inf	-Inf	99.15	3	Vertical	86	2.22	-	33.70	5.00	32.15
PK	5.922G	62.08	70.42	-8.34	54.83	3	Vertical	86	2.22	-	34.04	5.37	32.16

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TnomVnom



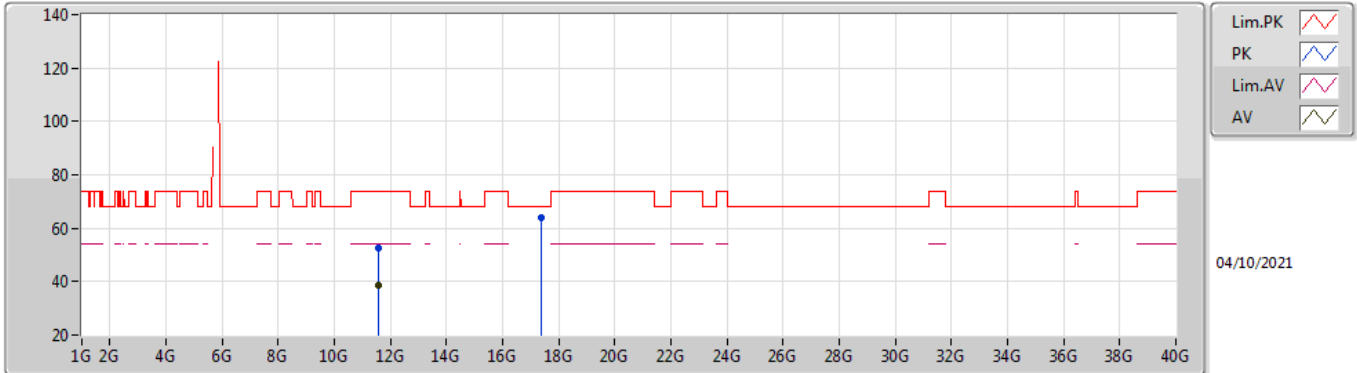
EUT\_Z\_4TX  
Setting 24  
02-B-N-2-10

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	57.35	68.20	-10.85	50.50	3	Horizontal	105	2.48	-	33.83	5.16	32.14
PK	5.797G	111.80	Inf	-Inf	105.24	3	Horizontal	105	2.48	-	33.71	5.00	32.15
AV	5.797G	100.29	Inf	-Inf	93.73	3	Horizontal	105	2.48	-	33.71	5.00	32.15
PK	5.98G	57.91	68.20	-10.29	50.43	3	Horizontal	105	2.48	-	34.10	5.54	32.16



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TnomVnom

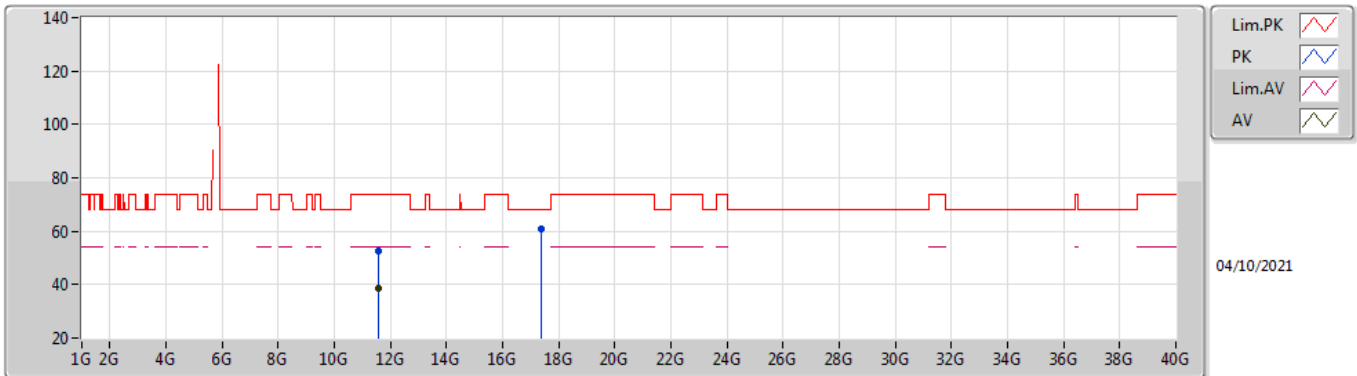


EUT Z\_4TX  
Setting 24  
02-B-S-8

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	11.59186G	52.75	74.00	-21.25	39.05	3	Vertical	285	1.53	-	39.28	7.66	33.24
AV	11.59044G	38.48	54.00	-15.52	24.79	3	Vertical	285	1.53	-	39.27	7.66	33.24
PK	17.39112G	64.22	68.20	-3.98	44.94	3	Vertical	277	2.57	-	43.03	9.34	33.09

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TnomVnom

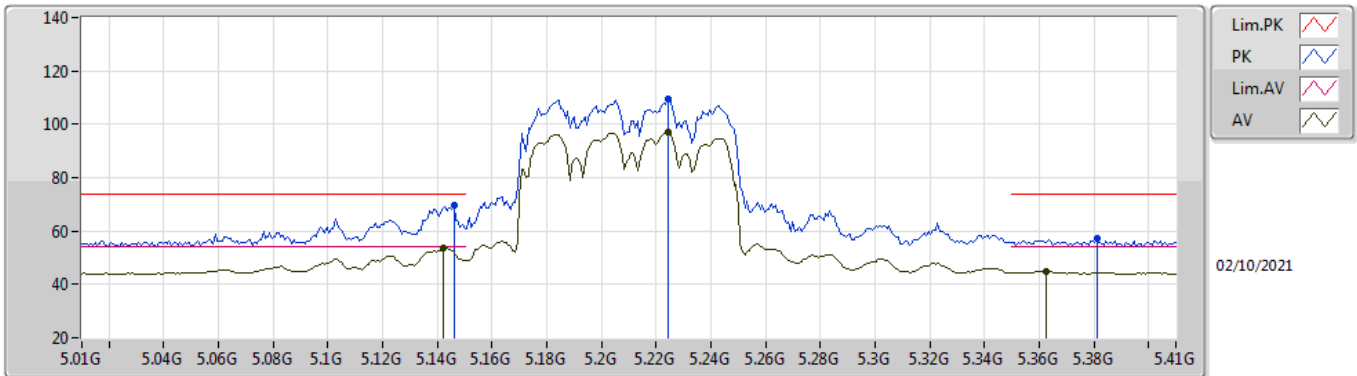


EUT\_Z\_4TX  
Setting 24  
02-B-S-8

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	11.58916G	52.50	74.00	-21.50	38.81	3	Horizontal	72	1.15	-	39.27	7.66	33.24
AV	11.5949G	38.47	54.00	-15.53	24.77	3	Horizontal	72	1.15	-	39.28	7.66	33.24
PK	17.38848G	61.11	68.20	-7.09	41.86	3	Horizontal	185	2.27	-	43.01	9.34	33.10

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TnomVnom

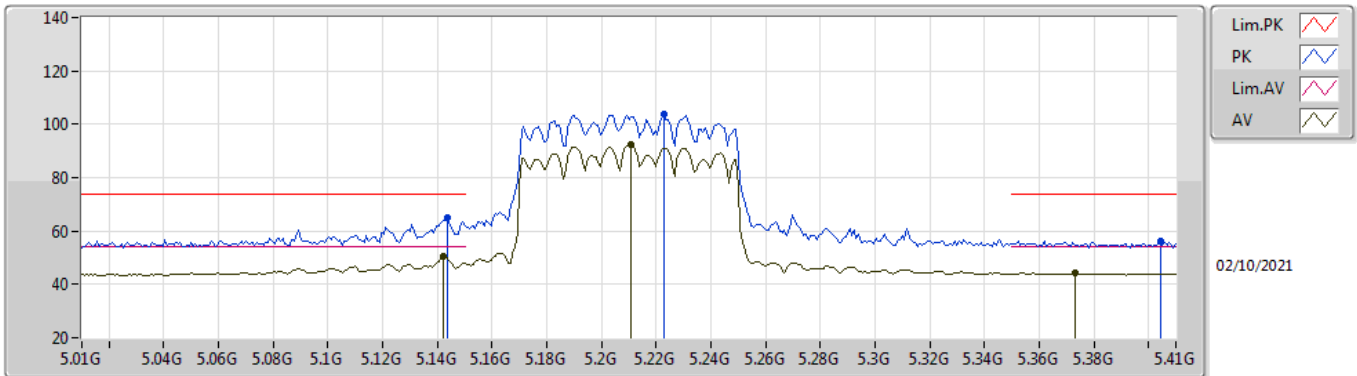


EUT\_Z\_4TX  
Setting 17.5  
02-B-N-2-10

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	5.146G	69.75	74.00	-4.25	63.41	3	Vertical	267	2.21	-	33.50	4.99	32.15
AV	5.142G	53.64	54.00	-0.36	47.31	3	Vertical	267	2.21	-	33.50	4.98	32.15
PK	5.2244G	109.44	Inf	-Inf	102.95	3	Vertical	267	2.21	-	33.55	5.09	32.15
AV	5.2244G	96.83	Inf	-Inf	90.34	3	Vertical	267	2.21	-	33.55	5.09	32.15
PK	5.3812G	57.13	74.00	-16.87	50.50	3	Vertical	267	2.21	-	33.76	5.01	32.14
AV	5.3628G	44.85	54.00	-9.15	38.24	3	Vertical	267	2.21	-	33.73	5.02	32.14

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TnomVnom

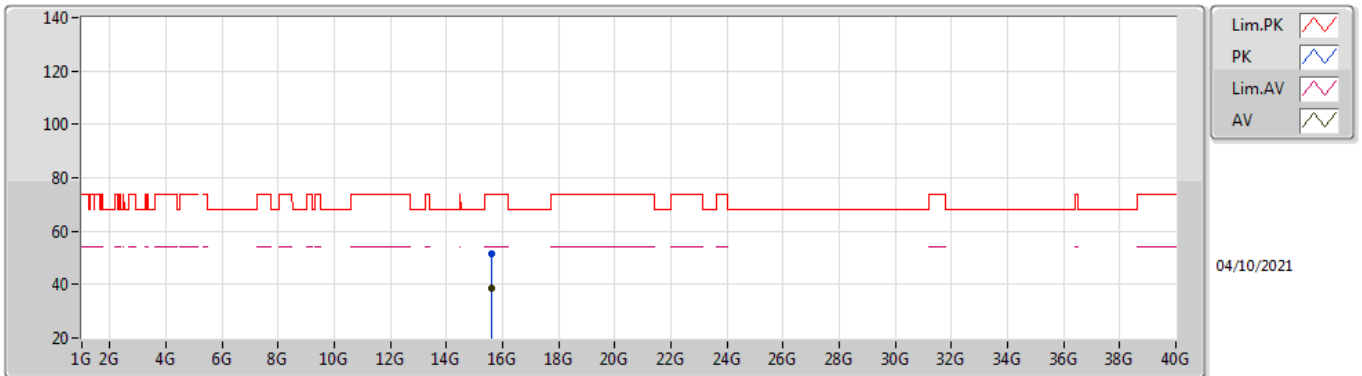


EUT\_Z\_4TX  
Setting 17.5  
02-B-N-2-10

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	5.1436G	65.02	74.00	-8.98	58.68	3	Horizontal	213	2.38	-	33.50	4.99	32.15
AV	5.142G	50.37	54.00	-3.63	44.04	3	Horizontal	213	2.38	-	33.50	4.98	32.15
PK	5.2228G	103.58	Inf	-Inf	97.09	3	Horizontal	213	2.38	-	33.55	5.09	32.15
AV	5.2108G	92.61	Inf	-Inf	86.15	3	Horizontal	213	2.38	-	33.52	5.09	32.15
PK	5.4044G	56.02	74.00	-17.98	49.35	3	Horizontal	213	2.38	-	33.81	5.00	32.14
AV	5.3732G	44.16	54.00	-9.84	37.54	3	Horizontal	213	2.38	-	33.75	5.01	32.14

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TnomVnom

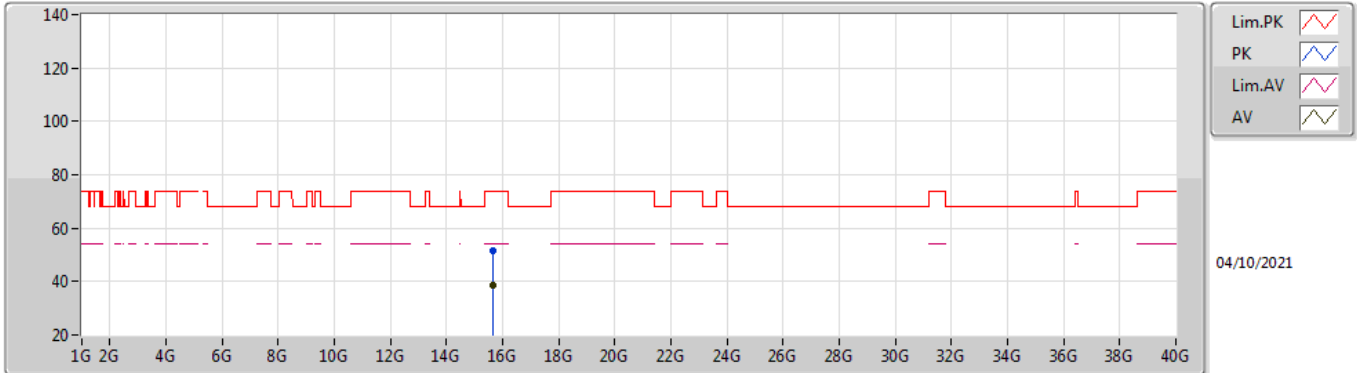


EUT\_Z\_4TX  
Setting 17.5  
02-B-S-8

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	15.6295G	51.78	74.00	-22.22	38.47	3	Vertical	106	1.88	-	37.54	9.07	33.30
AV	15.62876G	38.42	54.00	-15.58	25.11	3	Vertical	106	1.88	-	37.54	9.07	33.30

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TnomVnom

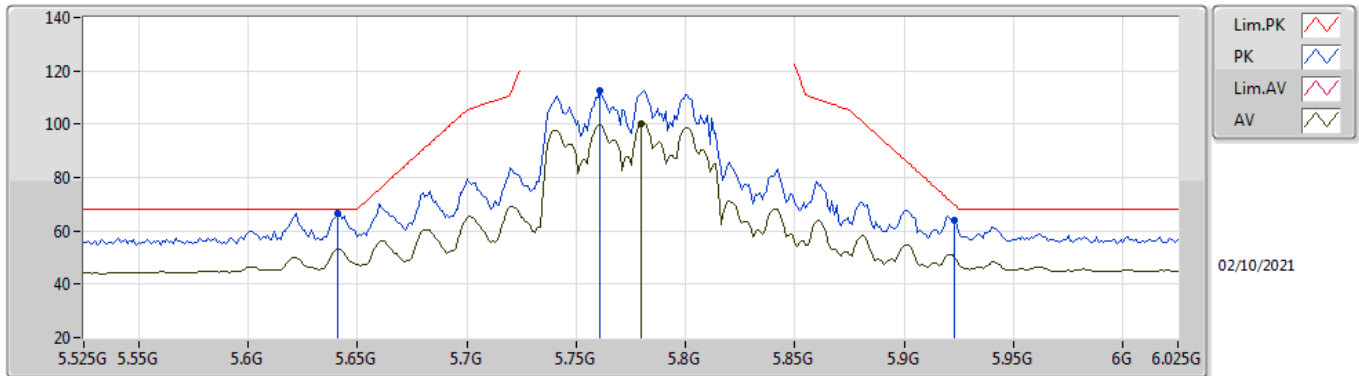


EUT Z\_4TX  
Setting 17.5  
02-B-S-8

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	15.63342G	51.39	74.00	-22.61	38.10	3	Horizontal	73	2.41	-	37.53	9.07	33.31
AV	15.63448G	38.46	54.00	-15.54	25.17	3	Horizontal	73	2.41	-	37.53	9.07	33.31

802.11ax HEW80\_Nss1,(MCS0)\_4TX

5775MHz\_TnomVnom

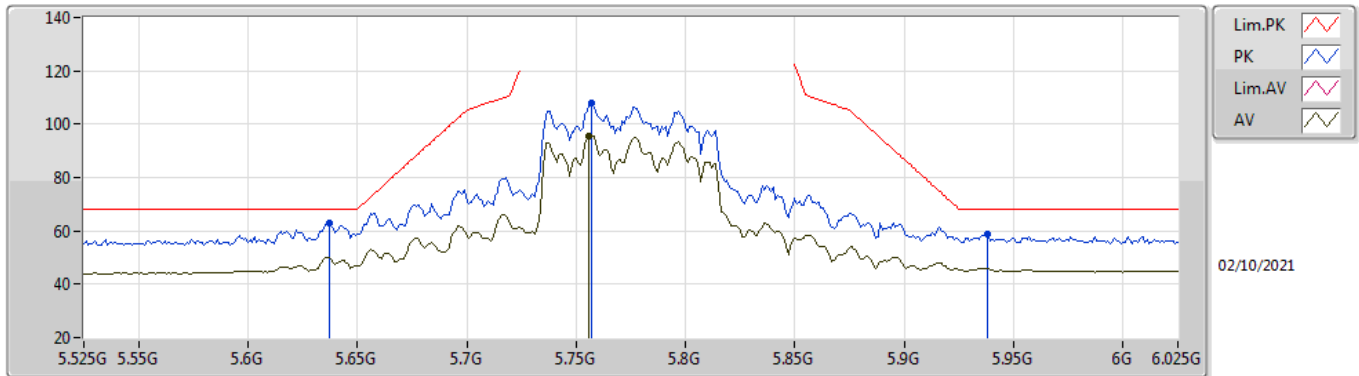


EUT\_Z\_4TX  
Setting 19.5  
02-B-N-2-10

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	66.70	68.20	-1.50	59.86	3	Vertical	87	2.44	-	33.82	5.16	32.14
PK	5.761G	112.63	Inf	-Inf	105.96	3	Vertical	87	2.44	-	33.78	5.04	32.15
AV	5.78G	100.31	Inf	-Inf	93.70	3	Vertical	87	2.44	-	33.74	5.02	32.15
PK	5.923G	64.09	69.68	-5.59	56.83	3	Vertical	87	2.44	-	34.05	5.37	32.16

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

#### 5775MHz\_TnomVnom



02/10/2021

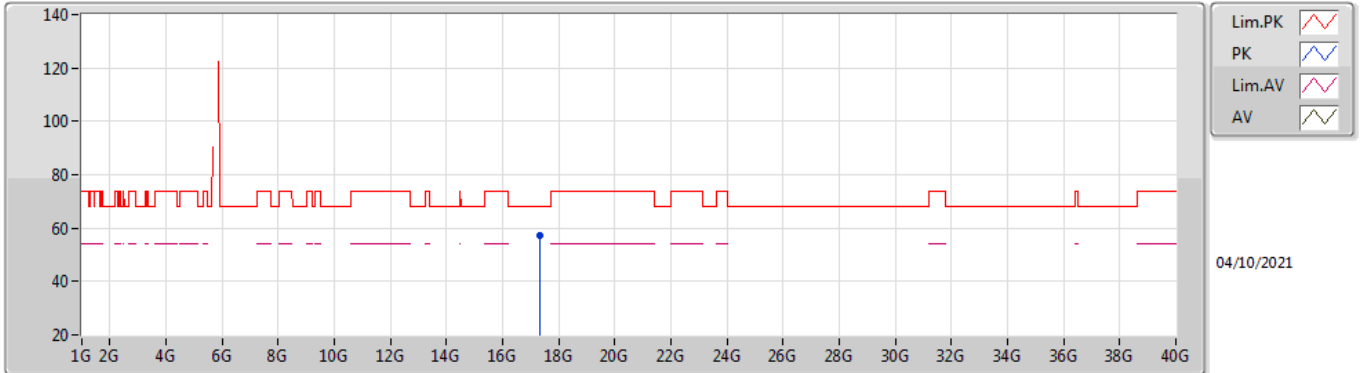
EUT Z\_4TX  
Setting 19.5  
02-B-N-2-10

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	63.00	68.20	-5.20	56.15	3	Horizontal	106	2.36	-	33.83	5.16	32.14
PK	5.757G	107.78	Inf	-Inf	101.10	3	Horizontal	106	2.36	-	33.79	5.04	32.15
AV	5.756G	95.48	Inf	-Inf	88.80	3	Horizontal	106	2.36	-	33.79	5.04	32.15
PK	5.938G	58.91	68.20	-9.29	51.58	3	Horizontal	106	2.36	-	34.08	5.41	32.16



802.11ax HEW80\_Nss1,(MCS0)\_4TX

5775MHz\_TnomVnom

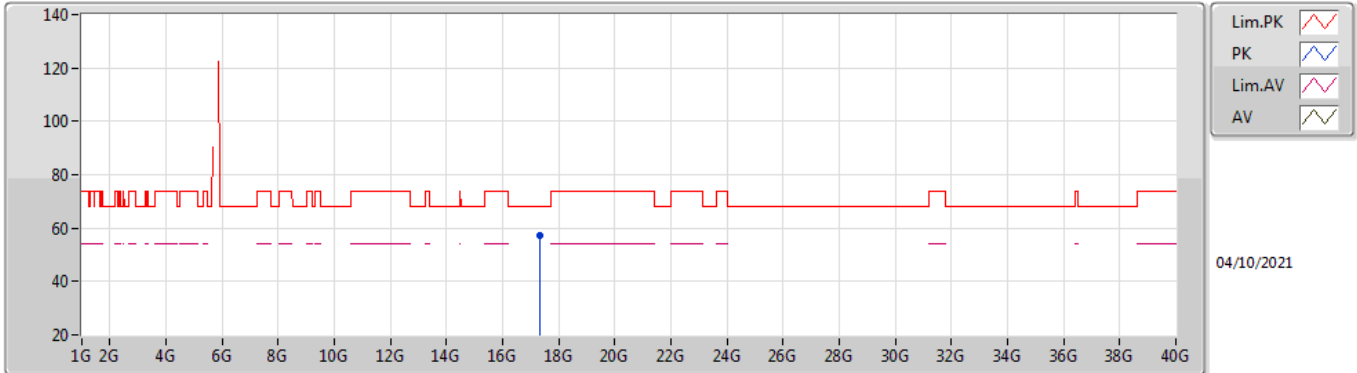


EUT\_Z\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	17.32528G	57.07	68.20	-11.13	38.41	3	Vertical	197	2.28	-	42.50	9.33	33.17

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

### 5775MHz\_TnomVnom



EUT\_Z\_4TX  
Setting 19.5  
02-B-S-8

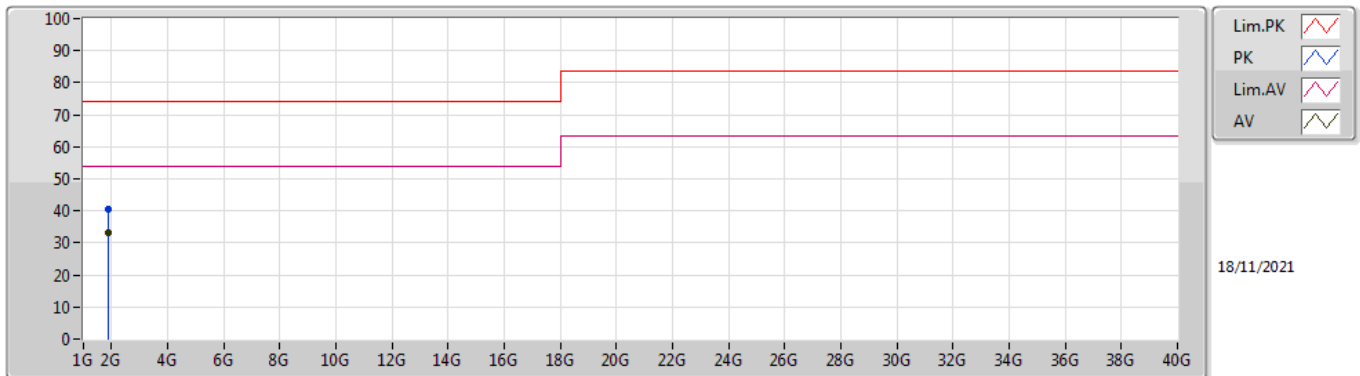
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	17.3235G	57.10	68.20	-11.10	38.45	3	Horizontal	67	2.98	-	42.49	9.33	33.17



**Summary**

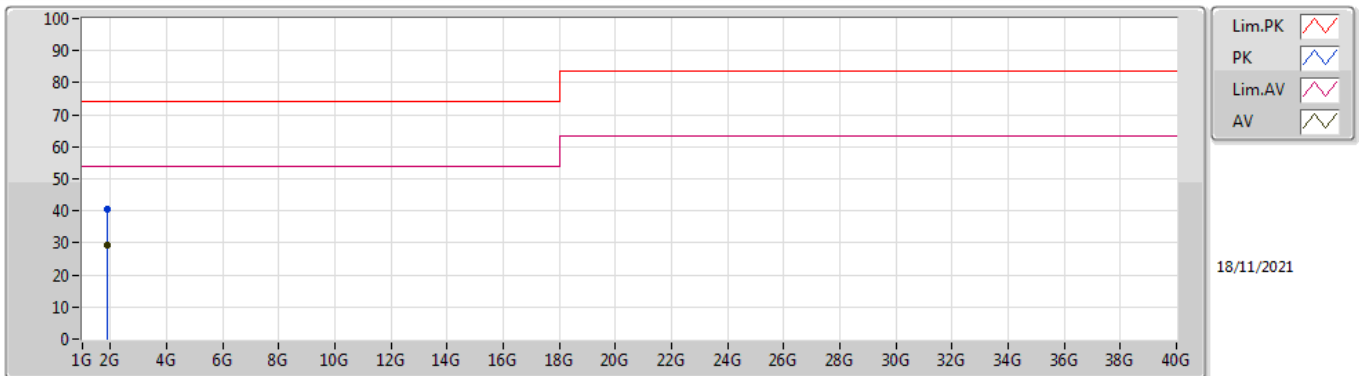
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.90102G	33.12	54.00	-20.88	Vertical

### Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.90258G	40.56	74.00	-33.44	-3.37	3	Vertical	18	1.31	-	43.93	25.91	4.15	33.43
AV	1.90102G	33.12	54.00	-20.88	-3.38	3	Vertical	18	1.31	-	36.50	25.90	4.15	33.43

### Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.9009G	40.58	74.00	-33.42	-3.38	3	Horizontal	358	1.22	-	43.96	25.90	4.15	33.43
AV	1.9021G	29.17	54.00	-24.83	-3.37	3	Horizontal	358	1.22	-	32.54	25.91	4.15	33.43