



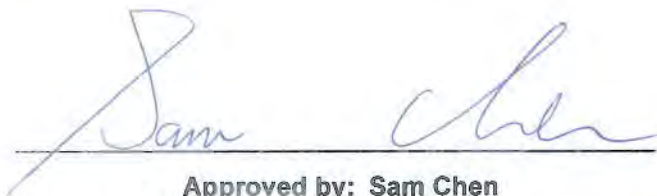
# FCC RADIO TEST REPORT

**FCC ID** : RAX-AIOS4-0F  
**Equipment** : HEOS 4.X Platform Module  
**Brand Name** : Arcadyan  
**Model Name** : AIOS4.0S, AIOS4.0V, AIOS4.0R, AIOS4.0F  
**Applicant** : Arcadyan Technology Corporation  
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan  
**Manufacturer** : Arcadyan Technology Corporation  
No.8, Sec.2, Guangfu Rd., Hsinchu, 30071 Taiwan  
**Standard** : 47 CFR FCC Part 15.407

The product was received on Jul. 22, 2015, and testing was started from Aug. 22, 2015 and completed on Nov. 19, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

  
Approved by: Sam Chen

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Note: Reference to Sporton Project No.: 581110

**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: **Viola Huang**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20)	5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5690	106-138 [3]

**For Radio: R0**

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11n HT20-BF	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ac VHT20-BF	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11n HT40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT40-BF	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ac VHT80-BF	80	2TX
5.47-5.725GHz	802.11a	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11n HT20-BF	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ac VHT20-BF	20	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11n HT40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT40-BF	40	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ac VHT80-BF	80	2TX
5.725-5.85GHz	802.11a	20	2TX
5.725-5.85GHz	802.11n HT20	20	2TX
5.725-5.85GHz	802.11n HT20-BF	20	2TX



<b>Band</b>	<b>Mode</b>	<b>BWch (MHz)</b>	<b>Nant</b>
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20-BF	20	2TX
5.725-5.85GHz	802.11n HT40	40	2TX
5.725-5.85GHz	802.11n HT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40-BF	40	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80-BF	80	2TX

**For Radio: R1**

<b>Band</b>	<b>Mode</b>	<b>BWch (MHz)</b>	<b>Nant</b>
5.25-5.35GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX

**Note:**

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

**1.1.2 Antenna Information**

Radio	Set	Brand	P/N	Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
R0	1	Airgain	N2420DG3-T2L-PK1-G30U	PIFA Antenna	I-PEX	3.10	3.66
	2	Airgain	N2420DG3-T2L-PK1-G100U	PIFA Antenna	I-PEX	3.10	3.66
	3	Airgain	N2420DG3-T2L-PK1-G600U	PIFA Antenna	I-PEX	3.10	3.66
	4	Airgain	N2425D-T2L-PK1-G30U	PIFA Antenna	I-PEX	1.90	3.50
	5	Airgain	N2425D-T2R-PK1-G150U	PIFA Antenna	I-PEX	1.90	3.50
	6	Airgain	N2425D-T2R-PK1-G30U	PIFA Antenna	I-PEX	1.90	3.50
	7	Airgain	N2425D-T2R-PK1-G500U	PIFA Antenna	I-PEX	1.90	3.50
R1	8	Airgain	N5X20B-T2L-PK1-G100U	PIFA Antenna	I-PEX	-	2.90
	9	Airgain	N5X20B-T2L-PK1-G600U	PIFA Antenna	I-PEX	-	2.90
R0/R1	10	Arcadyan	WN9722A-DM	Dipole Antenna	I-PEX	2.94	3.19
	11	Arcadyan	WN9722A-DM-300mm	Dipole Antenna	I-PEX	2.76	2.63
	12	Arcadyan	WN9722A-DM-500mm	Dipole Antenna	I-PEX	1.99	2.59

Note: 1. The above information was declared by manufacturer.

2. The EUT has twelve sets of antenna, and each set contains two antennas.

3. For Conducted measurement, only the highest gain antennas "set 10" was tested and recorded in the report.

4. For Radiated measurement:

Because set 8~9 are the same type antennas, only the higher gain antennas "set 8" was tested and recorded in the report.

Because set 10~12 are the same type antennas, only the higher gain antennas "set 10" was tested and recorded in the report.

5. The EUT has two radios, Radio: R0 supports Bluetooth / 2.4GHz WLAN / 5GHz WLAN band 1~4 function, Radio: R1 supports 5GHz WLAN band 1~4 function.

6. For WLAN function: Chain 1 (Port 1) and Chain 2 (Port 2) could transmit/receive simultaneously.



### 1.1.3 Mode Test Duty Cycle

For Radio: R1 / Band 2

Test Mode: Mode 1 (PIFA antenna)

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.060	2.090	98.56	0.06	0.01
802.11ac MCS0/Nss1 VHT20	1.920	1.950	98.46	0.07	0.01
802.11ac MCS0/Nss1 VHT40	0.921	0.966	95.34	0.21	1.09
802.11ac MCS0/Nss1 VHT80	0.430	0.493	87.22	0.59	2.33

Test Mode: Mode 2 (Dipole antenna)

Mode	On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.038	2.076	98.17	0.08	0.01
802.11ac MCS0/Nss1 VHT20	1.916	1.950	98.26	0.08	0.01
802.11ac MCS0/Nss1 VHT40	0.908	0.953	95.28	0.21	1.10
802.11ac MCS0/Nss1 VHT80	0.429	0.486	88.27	0.54	2.33

For Radio: R1 / Band 3

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.958	0.19	2.066m	1k
802.11ac VHT20	0.986	0.06	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ac VHT40	0.972	0.12	953.75u	3k
802.11ac VHT80	0.944	0.25	461.25u	3k

Note:

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





1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From host system			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	For 802.11n/ac in 5GHz radio 0 Band 1~Band 4			
<b>Weather Band</b>	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/>	Without 5600~5650MHz
<b>Function</b>	<input type="checkbox"/>	Outdoor P2M	<input checked="" type="checkbox"/>	Indoor P2M
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/>	Client
<b>TPC Function</b>	<input checked="" type="checkbox"/>	With TPC	<input type="checkbox"/>	Without TPC
<b>Test Software Version</b>	Mtool 2.0.1.6			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
AIOS4.0S	All the models are identical, the different model names served as marketing strategy.
AIOS4.0V	
AIOS4.0R	
AIOS4.0F	

From the above models, model: AIOS4.0S was selected as representative model for the test and its data was recorded in this report.

1.1.6 Table for Radio

Radio	Operate Mode	Function	CPU	Antenna
R0	Slave without radar detection (STA mode)	Bluetooth / 2.4GHz WLAN / 5GHz WLAN band 1~4	1G / 1.25G	Set 1~7, 10~12
R1	Master (AP mode)	5GHz WLAN band 1~4	1G / 1.25G	Set 8~12

Note: CPU 1.25G covers CPU 1G, due to it is the highest CPU speed.



### 1.1.7 Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR581110AD

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

<b>Modifications</b>	<b>Performance Checking</b>
1. Adding 5GHz WLAN band 2~3 non-beamforming (5250~5350 MHz, 5470~5725 MHz) for Radio: R1 Master (AP mode).	1. Emission Bandwidth 2. Maximum Conducted Output Power 3. Peak Power Spectral Density 4. Unwanted Emissions above 1GHz
2. Remove the Beamforming mode of Radio (R1).	There's no influence on this test report.



### 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
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 412172 D01 v01r01

### 1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted (For Radio: R1 Band 2)	TH01-CB	Eddie Weng	25°C / 60%	Aug. 22, 2015 ~ Sep. 08, 2015
RF Conducted (For Radio: Radio 1 Band 3)	TH01-CB	Owen Hsu	24.8~25.4°C / 61~64%	Aug. 21, 2019 ~ Nov. 19, 2019
Radiated (For Radio: R1 Band 2)	03CH01-CB	Kenneth Huang	24°C / 61%	Aug. 23, 2015 ~ Aug. 28, 2015
Radiated (For Radio: R1 Band 3)	03CH06-CB	KJ Chang	24.6~26.3°C / 61~63%	Aug. 14, 2019 ~ Aug. 21, 2019

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



### 1.4 Measurement Uncertainty

**For Radio: R1 Band 2**

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%

**For Radio: R1 Band 3**

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

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	2.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For Radio: R1 / Band 2

Mode	Test Frequency (MHz)		
	NCB: 20MHz		
	5260MHz	5300MHz	5320MHz
802.11a	86	81	77
802.11ac MCS0/Nss1 VHT20	86	81	76
Mode	NCB: 40MHz		
802.11ac MCS0/Nss1 VHT40	5270MHz	5310MHz	
	79	64	
Mode	NCB: 80MHz		
802.11ac MCS0/Nss1 VHT80	5290MHz		
	64		



For Radio: R1 / Band 3

Mode	PowerSetting
802.11a_Nss1,(6Mbps)_2TX	-
5500MHz	56
5580MHz	54
5700MHz	60
5720MHz Straddle 5.47-5.725GHz	61
5720MHz Straddle 5.725-5.85GHz	61
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5500MHz	61
5580MHz	58
5700MHz	63
5720MHz Straddle 5.47-5.725GHz	65
5720MHz Straddle 5.725-5.85GHz	65
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5510MHz	42
5550MHz	58
5670MHz	61
5710MHz Straddle 5.47-5.725GHz	65
5710MHz Straddle 5.725-5.85GHz	65
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5530MHz	43
5610MHz	67
5690MHz Straddle 5.47-5.725GHz	72
5690MHz Straddle 5.725-5.85GHz	72

Note:

- ♦ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
<b>Test Condition</b>	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Unwanted Emissions
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &gt; 1GHz</b>	CTX
	The EUT was performed at X axis, Y axis and Z axis position for unwanted emissions above 1GHz test, and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT in X axis with set 8 antenna_R1 Band 2
2	EUT in X axis with set 10 antenna_R1 Band 2
3	EUT in X axis with set 8 antenna_R1 Band 3
4	EUT in X axis with set 10 antenna_R1 Band 3

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 2.4 Accessories

N/A



## 2.5 Support Equipment

For Radiated (above 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test fixture	Arcadyan	WN9722A-DM Test Jig	N/A
B	Notebook	DELL	E4300	N/A
C	Notebook	DELL	E4300	N/A
D	WLAN module	Boardcom	BCM943162ZP	QDS-BRCM1075

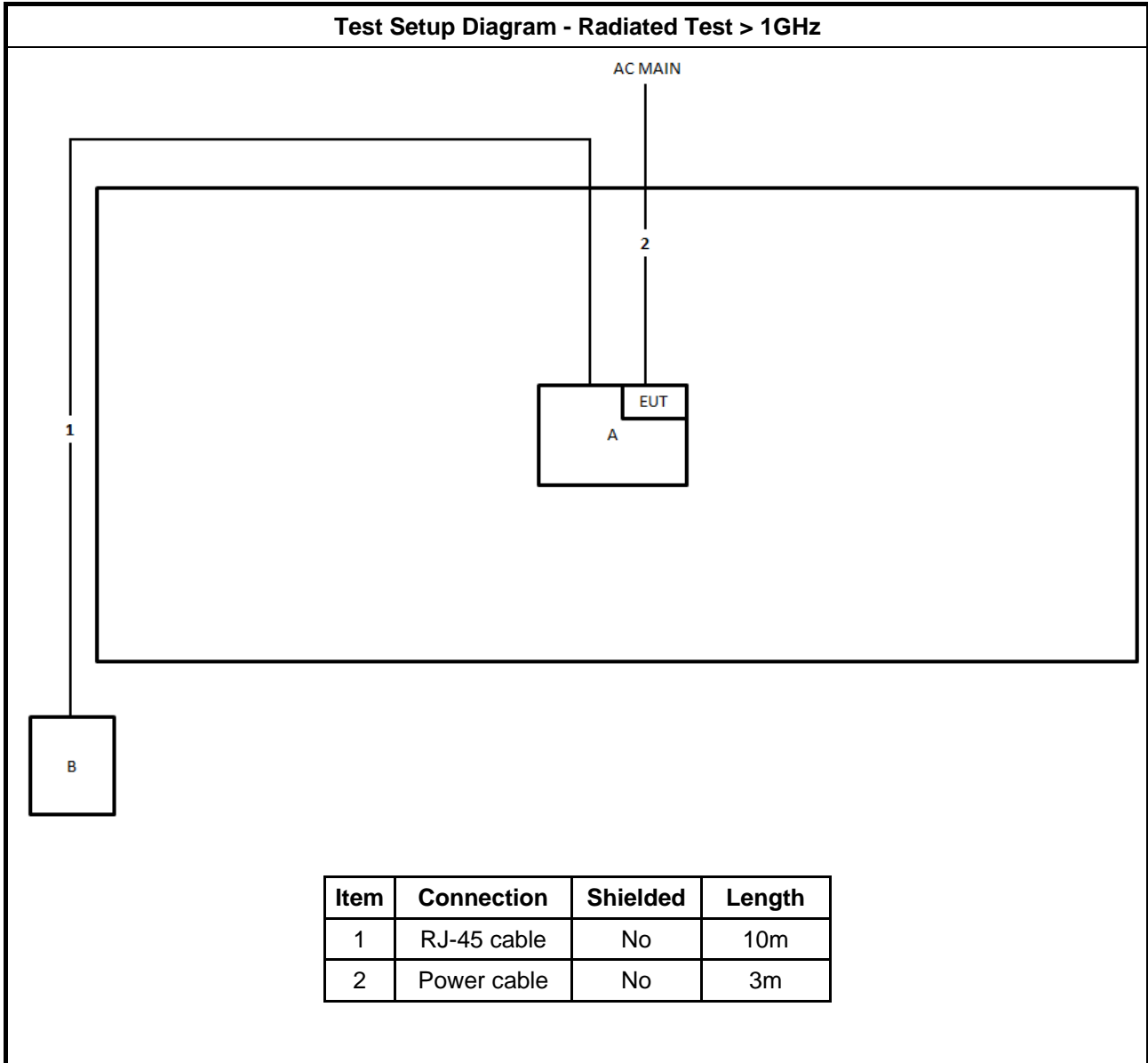
For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Test fixture	Arcadyan	WN9722A-DM Test Jig	N/A





## 2.6 Test Setup Diagram



### 3 Transmitter Test Result

#### 3.1 Emission Bandwidth

##### 3.1.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
<b>UNII Devices</b>	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input checked="" 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 checked="" 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.
<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.

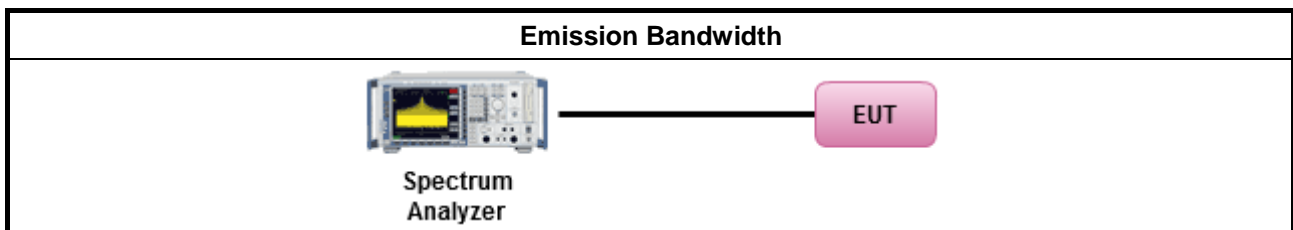
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:               <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</li> <li><input type="checkbox"/> Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</li> </ul> </li> </ul>	

##### 3.1.4 Test Setup





### **3.1.5 Test Result of Emission Bandwidth**

Refer as Appendix A



### 3.2 Maximum Conducted Output Power

#### 3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
<b>UNII Devices</b>	
<input 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 125mW</math> [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 checked="" 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 checked="" 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>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>
$P_{Out}$ = maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

### 3.2.2 Measuring Instruments

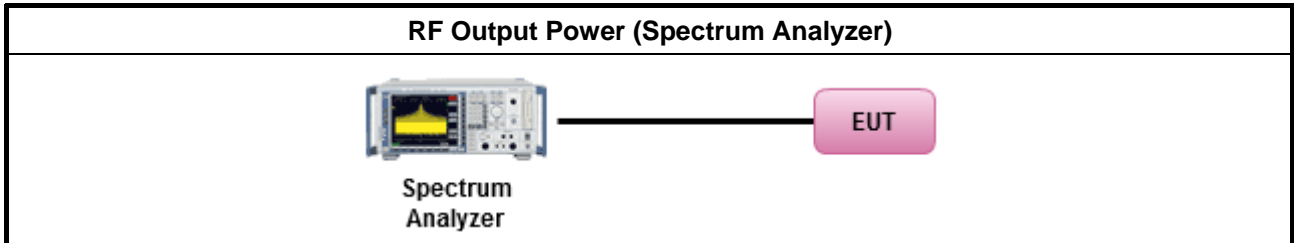
Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

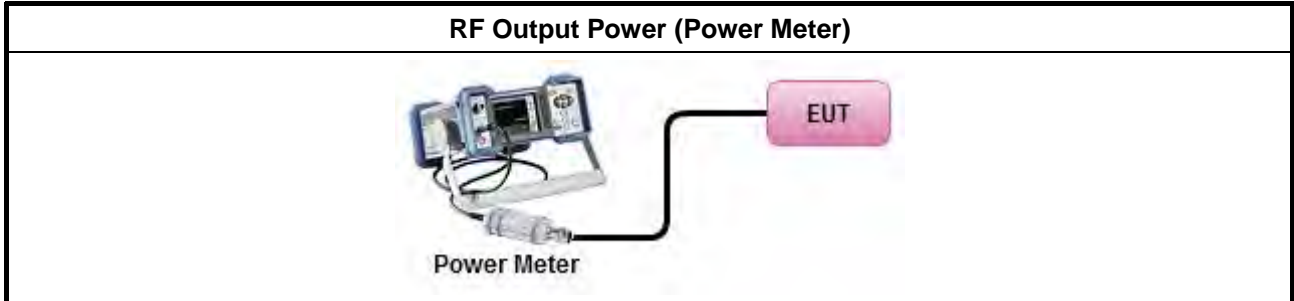
Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
Average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<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> </ul>	
<ul style="list-style-type: none"> <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>	

### 3.2.4 Test Setup

For straddel channel



For other channel



### 3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B



### 3.3 Peak Power Spectral Density

#### 3.3.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
<b>UNII Devices</b>	
<input type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<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 checked="" 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 checked="" 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:
<input type="checkbox"/>	<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>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.
<input type="checkbox"/>	<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-8</math>) dBW/MHz for <math>8^\circ \leq \theta &lt; 40^\circ</math>  -35.9 - 1.22 (<math>\theta-40</math>) 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:
<input type="checkbox"/>	<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</b> = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz <b>G<sub>TX</sub></b> = the maximum transmitting antenna directional gain in dBi.	

#### 3.3.2 Measuring Instruments

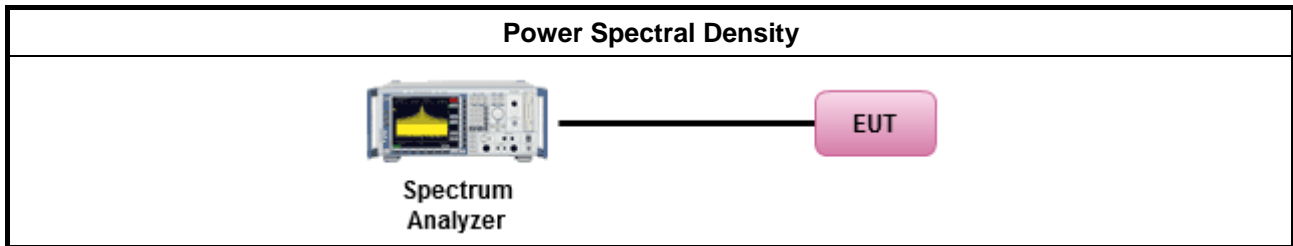
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <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, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
[duty cycle ≥ 98% or external video / power trigger]	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<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])  <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>	

### 3.3.4 Test Setup



### 3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C





### 3.4 Unwanted Emissions

#### 3.4.1 Transmitter Unwanted Emissions Limit

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

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" 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.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of



linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

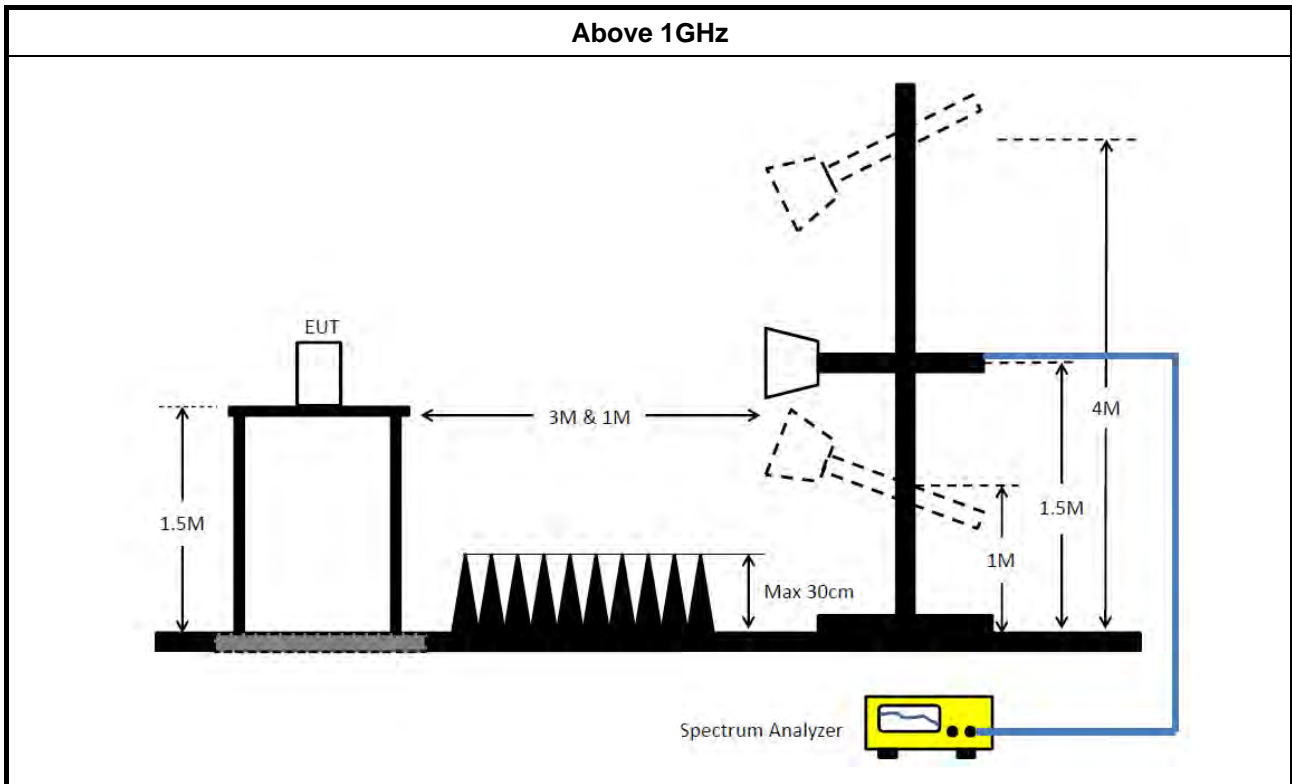
**3.4.2 Measuring Instruments**

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

**3.4.3 Test Procedures**

Test Method	
	<ul style="list-style-type: none"> <li>▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:               <ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> <li>▪ Refer as FCC KDB 789033, clause G)1) for unwanted emissions into restricted bands.                   <ul style="list-style-type: none"> <li><input type="checkbox"/> Refer as FCC KDB 789033, G)6) Method AD (Trace Averaging).</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, G)6) Method VB (Reduced VBW).</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause G)5) measurement procedure peak limit.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.</li> </ul> </li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For radiated measurement.               <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> </li> </ul>
	<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>

### 3.4.4 Test Setup



### 3.4.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

### 3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 28, 2014	Oct. 27, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2015	Jul. 20, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 12, 2015	Jan. 11, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 25, 2014	Nov. 24, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 06, 2014	Nov. 05, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Nov. 14, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	1 GHz ~ 40 GHz	Nov. 15, 2014	Nov. 14, 2015	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz~26.5GHz	May 08, 2019	May 07, 2020	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100979	9kHz~40GHz	Dec. 12, 2014	Dec. 11, 2015	Conducted (TH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2015	Jun. 01, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	May 30, 2019	May 29, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~26.5 GHz	Nov. 15, 2014	Nov. 14, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)



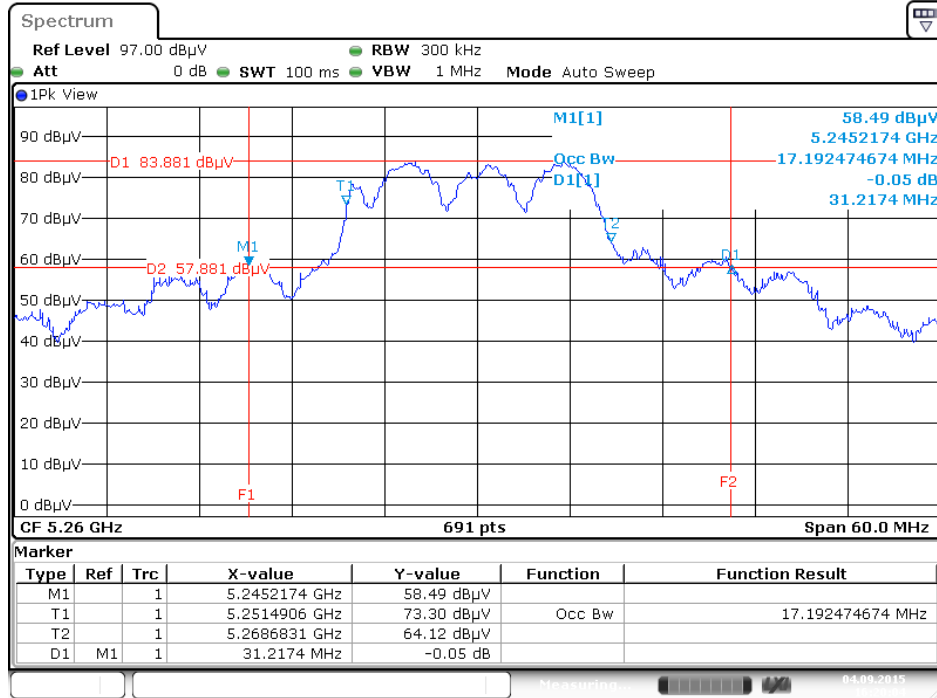
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Nov. 15, 2014	Nov. 14, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Nov. 15, 2014	Nov. 14, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Nov. 15, 2014	Nov. 14, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz –26.5 GHz	Nov. 15, 2014	Nov. 14, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz –26.5 GHz	Oct. 07, 2019	Oct. 06, 2020	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 03, 2014	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

**Result**

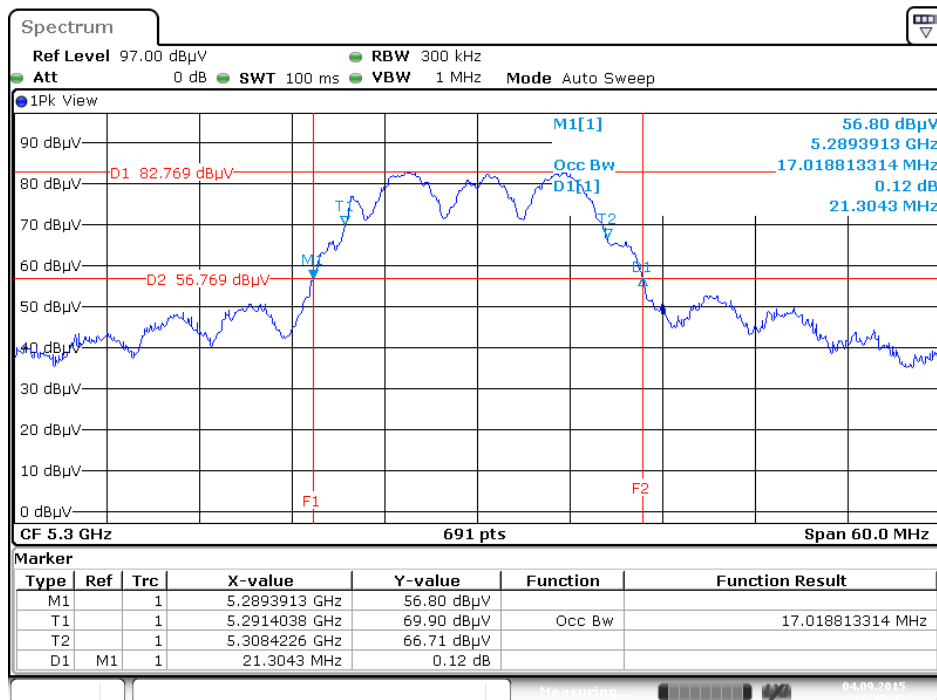
Mode	Frequency	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5260 MHz	31.22	17.19
	5300 MHz	21.30	17.02
	5320 MHz	21.30	16.67
802.11ac MCS0/Nss1 VHT20	5260 MHz	35.48	17.45
	5300 MHz	21.30	17.80
	5320 MHz	21.57	17.71
802.11ac MCS0/Nss1 VHT40	5270 MHz	70.87	37.48
	5310 MHz	40.73	37.05
802.11ac MCS0/Nss1 VHT80	5290 MHz	81.45	76.12

**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2  
5260 MHz**



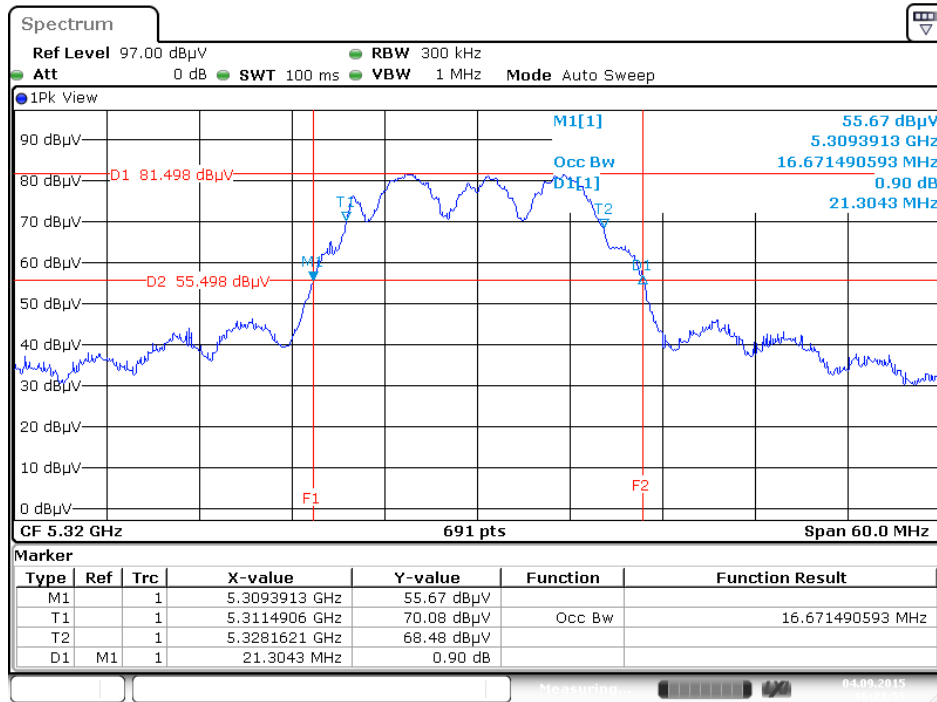
Date: 4 SEP. 2015 16:20:04

**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2  
5300 MHz**



Date: 4 SEP. 2015 16:20:43

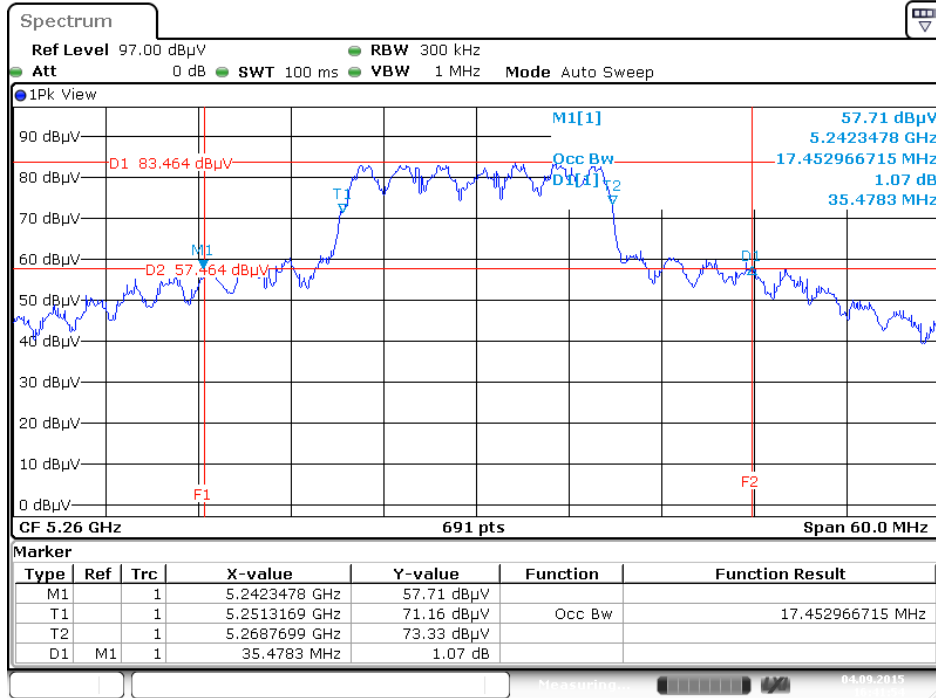
**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2  
5320 MHz**



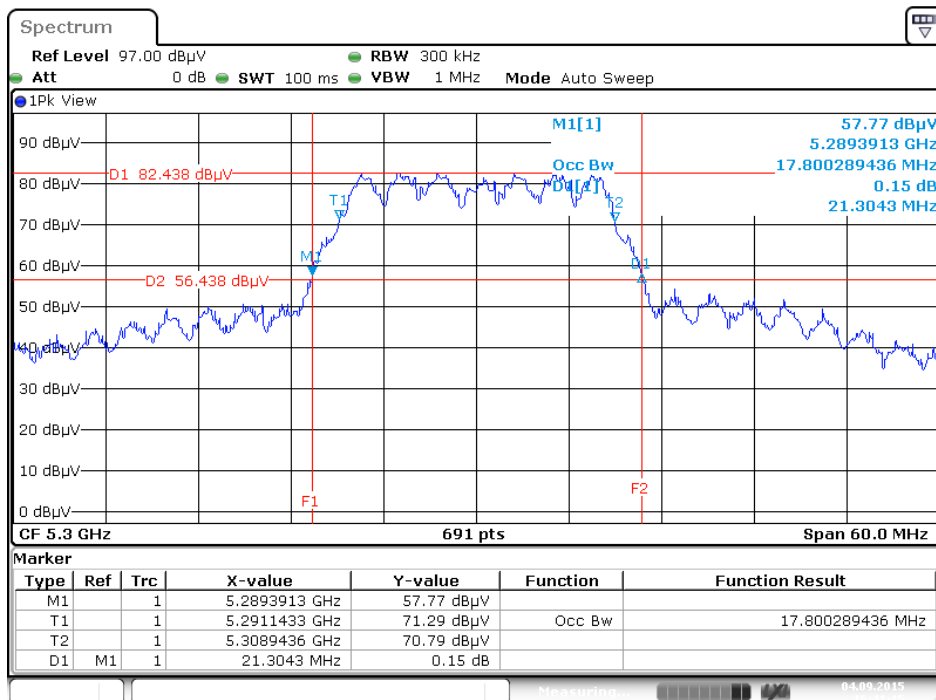
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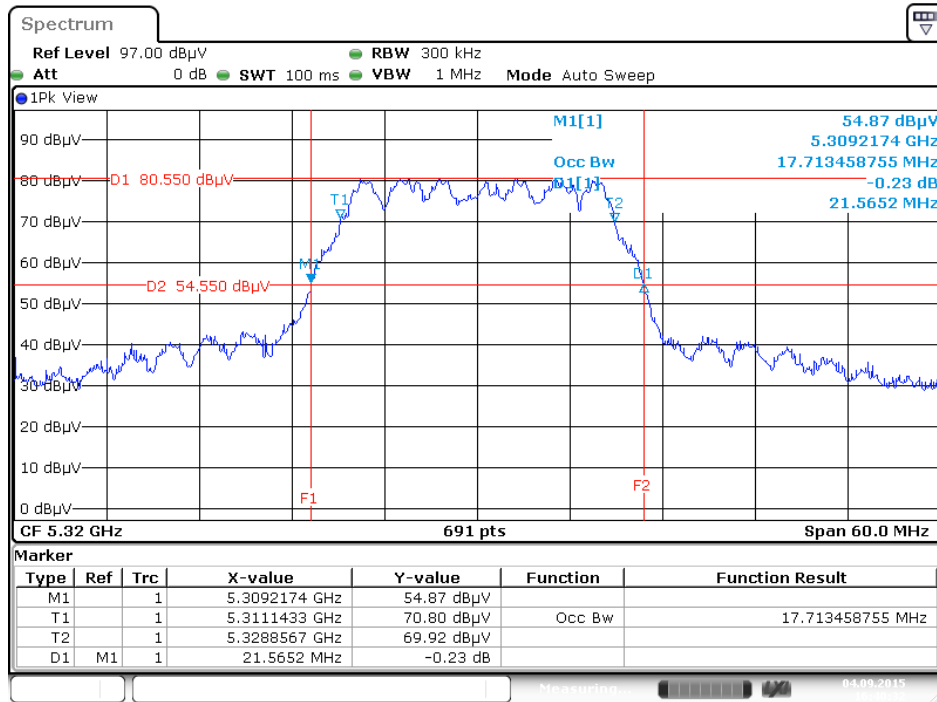
**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 5260 MHz**



**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 5300 MHz**

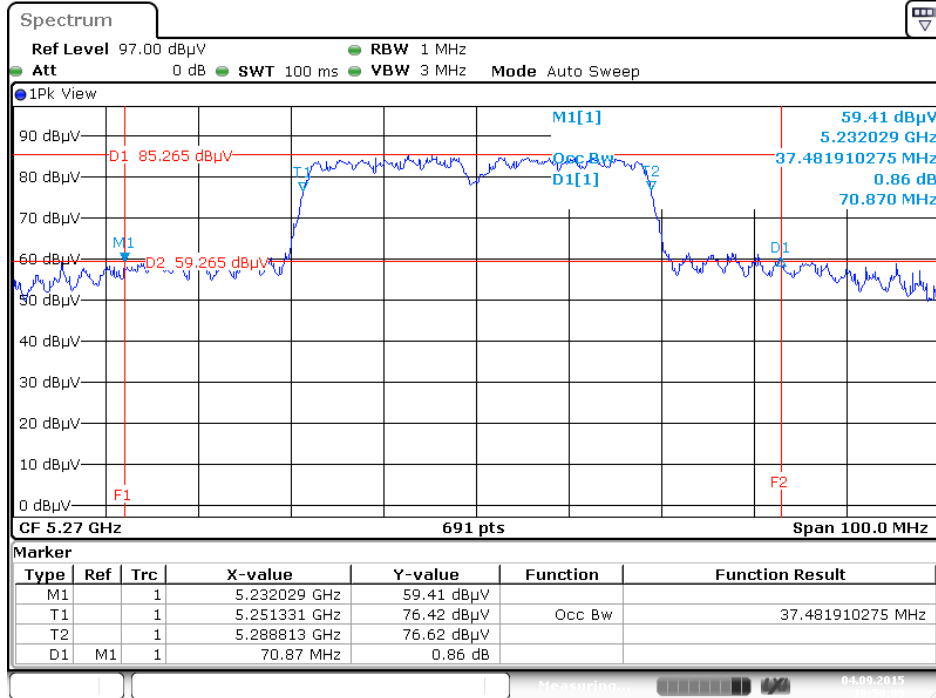


**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 5320 MHz**



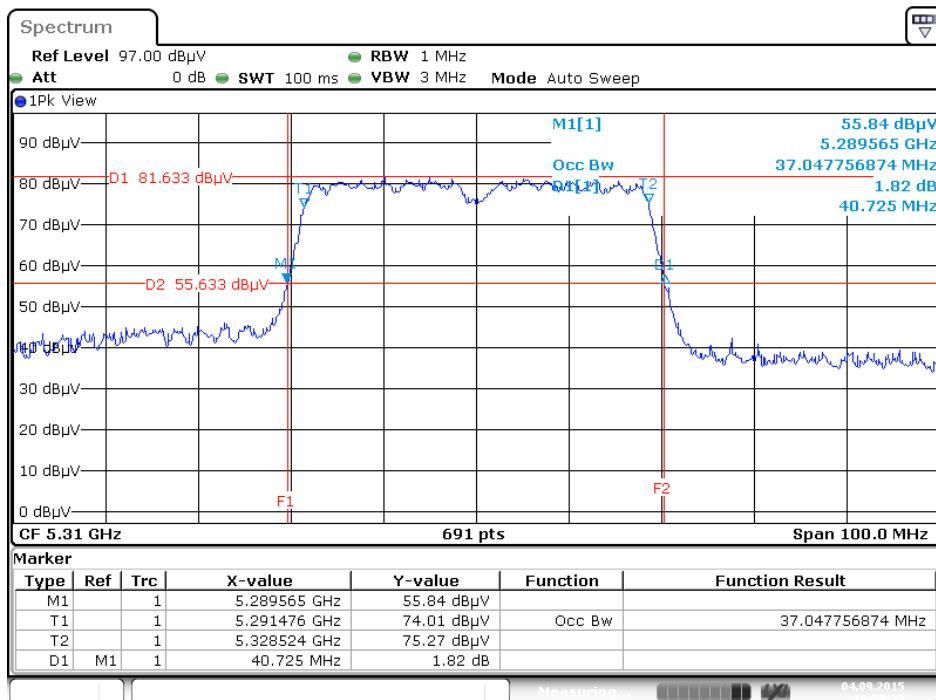
Date: 4 SEP 2015 16:40:33

**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 5270 MHz**



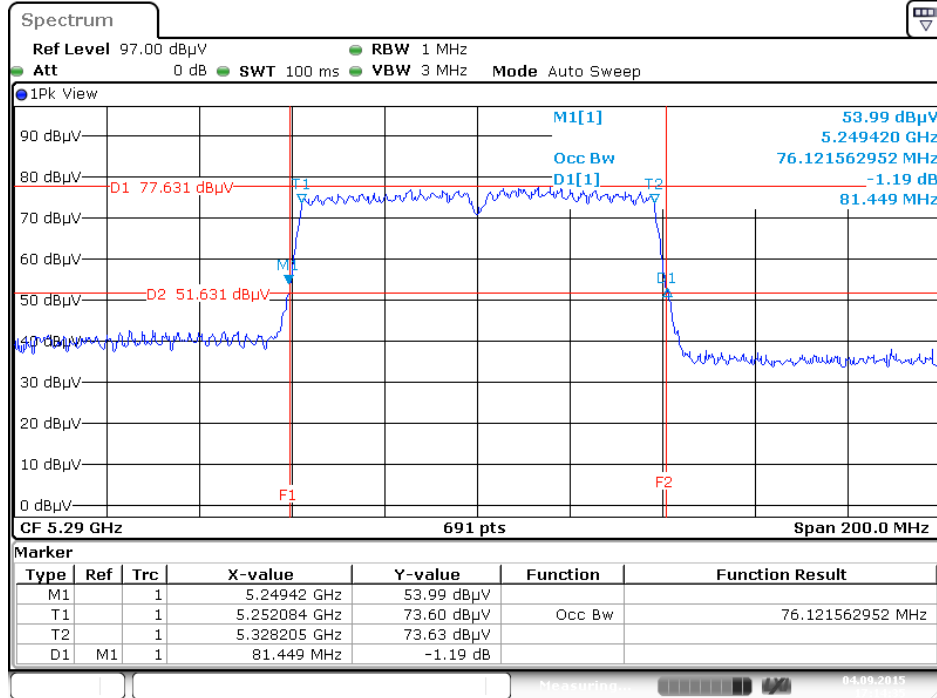
Date: 4 SEP. 2015 16:50:01

**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 5310 MHz**



Date: 4 SEP. 2015 16:50:31

**26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 5290 MHz**



Date: 4 SEP. 2015 17:14:35



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.84M	16.672M	16M7D1D	15.96M	13.358M
802.11ac VHT20_Nss1,(MCS0)_2TX	22.08M	17.841M	17M8D1D	15.96M	13.973M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.5M	36.342M	36M3D1D	34.965M	32.989M
802.11ac VHT80_Nss1,(MCS0)_2TX	82.2M	75.802M	75M8D1D	76.275M	72.564M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	3.16M	4.278M	4M28D1D	3.12M	4.258M
802.11ac VHT20_Nss1,(MCS0)_2TX	3.74M	4.378M	4M38D1D	3.74M	4.358M
802.11ac VHT40_Nss1,(MCS0)_2TX	3.12M	4.158M	4M16D1D	3.12M	3.678M
802.11ac VHT80_Nss1,(MCS0)_2TX	3.12M	37.101M	37M1D1D	3.12M	36.582M

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

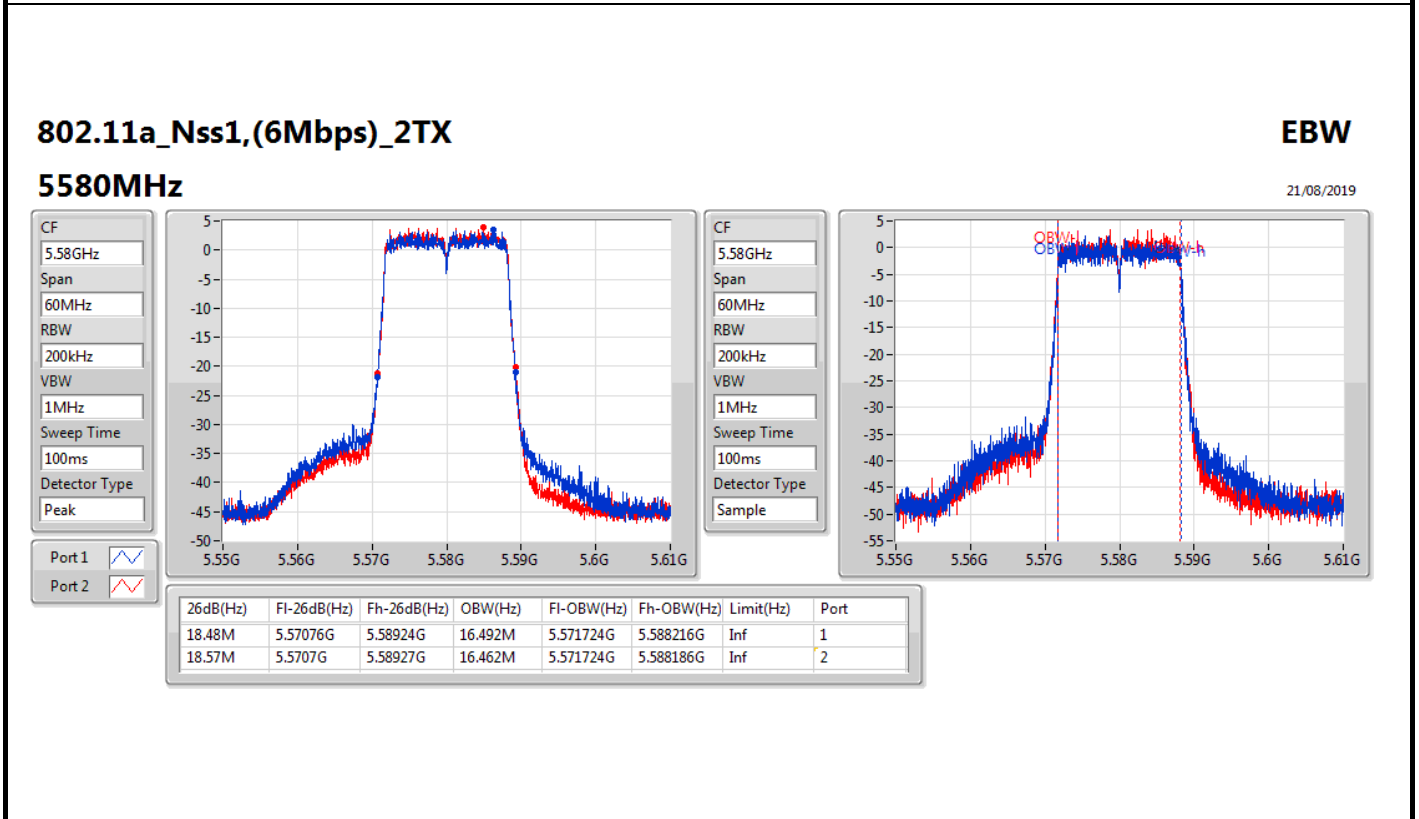
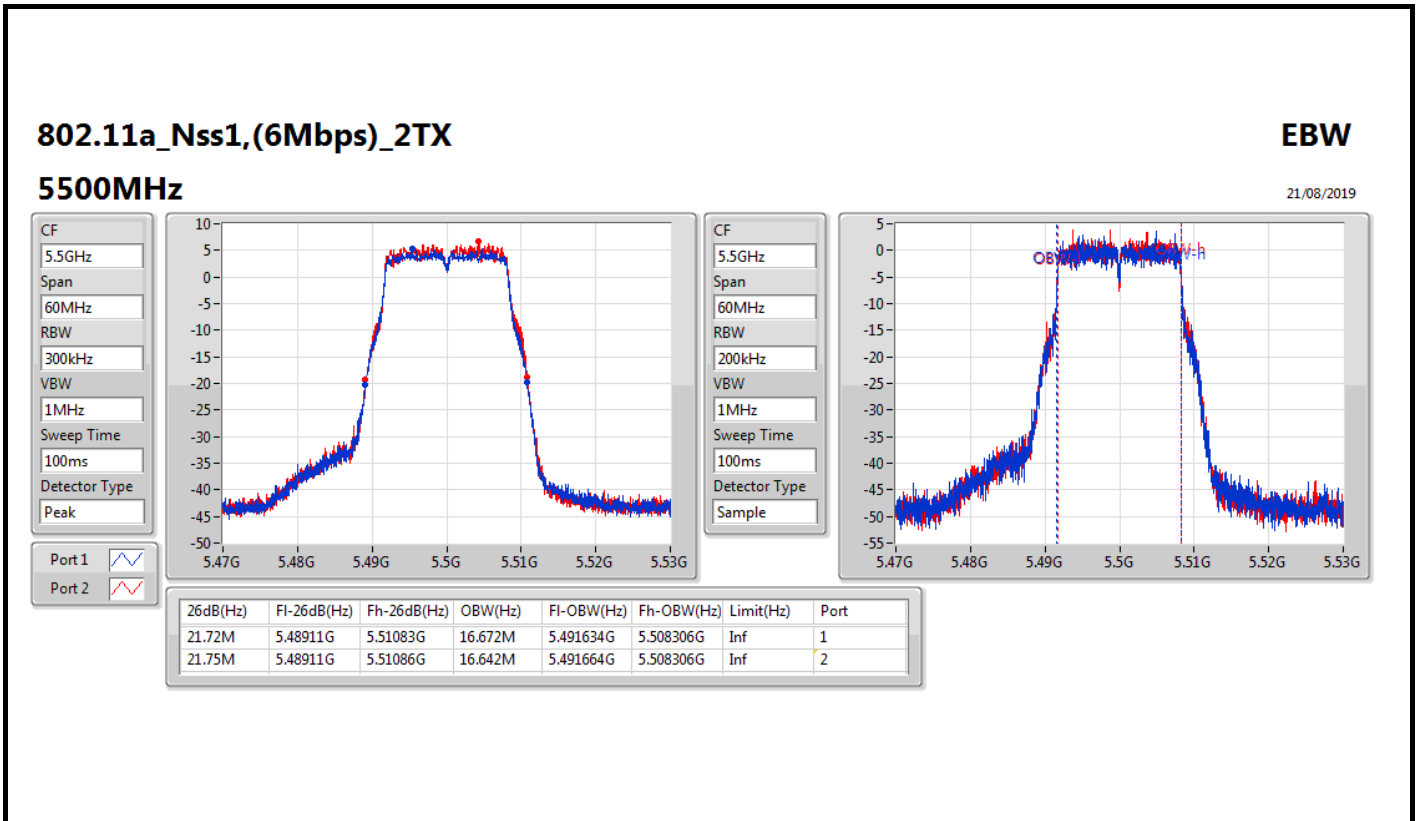
**Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	Inf	21.72M	16.672M	21.75M	16.642M
5580MHz	Pass	Inf	18.48M	16.492M	18.57M	16.462M
5700MHz	Pass	Inf	21.72M	16.642M	21.84M	16.642M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.975M	13.403M	15.96M	13.358M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.16M	4.278M	3.12M	4.258M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	Inf	22.08M	17.841M	21.99M	17.811M
5580MHz	Pass	Inf	18.99M	17.421M	18.9M	17.451M
5700MHz	Pass	Inf	21.96M	17.781M	21.75M	17.781M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.96M	13.973M	15.96M	13.988M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.74M	4.358M	3.74M	4.378M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	Inf	40.26M	36.342M	39.78M	36.222M
5550MHz	Pass	Inf	40.38M	36.282M	39.84M	36.282M
5670MHz	Pass	Inf	40.5M	36.342M	39.84M	36.342M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.385M	32.989M	34.965M	33.093M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	4.158M	3.12M	3.678M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	Inf	82.2M	75.682M	81.6M	75.802M
5610MHz	Pass	Inf	82.08M	75.802M	81.84M	75.682M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.275M	72.564M	76.35M	72.564M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	37.101M	3.12M	36.582M

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

**Port X-OBW** = Port X 99% occupied bandwidth;

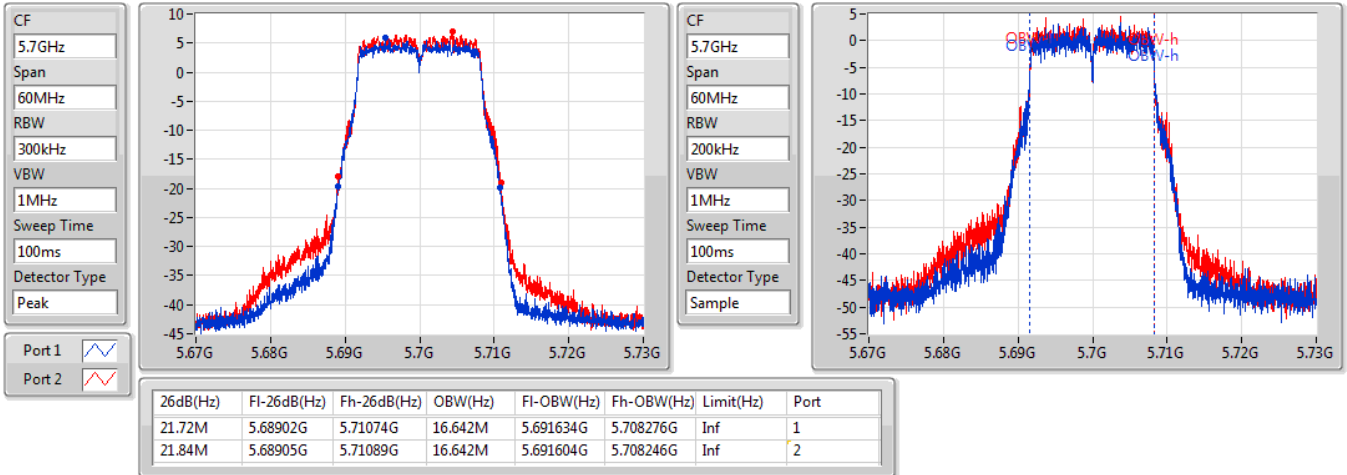


802.11a\_Nss1,(6Mbps)\_2TX

EBW

5700MHz

21/08/2019

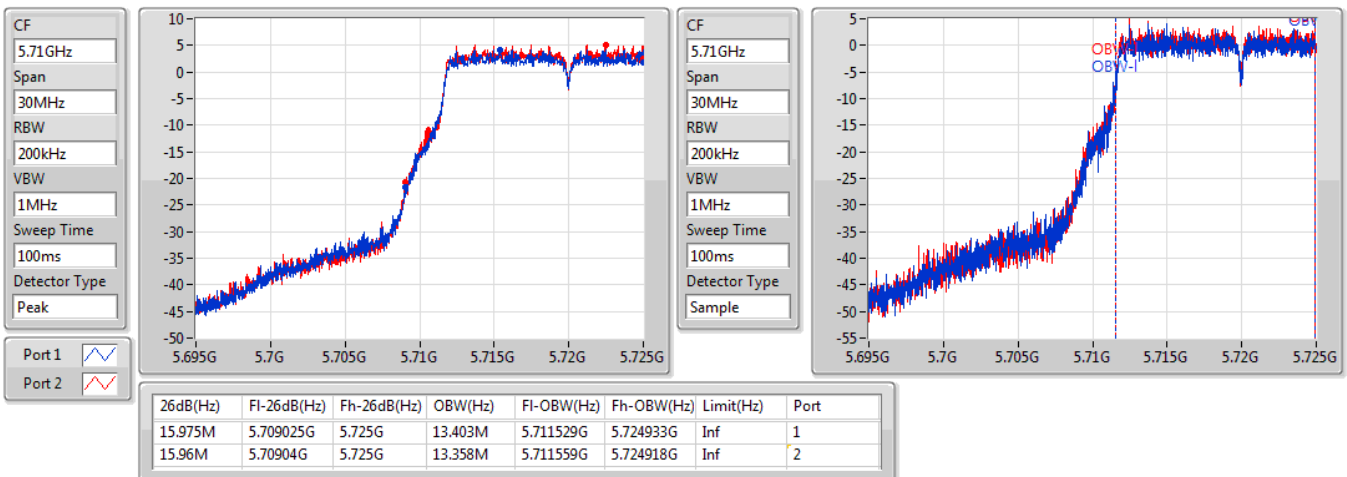


802.11a\_Nss1,(6Mbps)\_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

21/08/2019



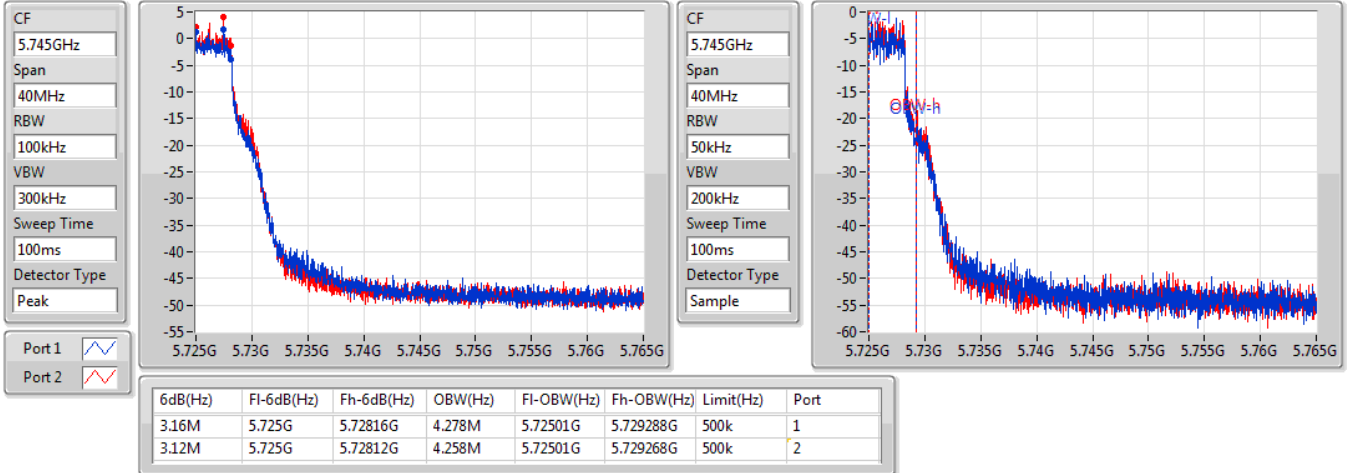


### 802.11a\_Nss1,(6Mbps)\_2TX

EBW

#### 5720MHz Straddle 5.725-5.85GHz

21/08/2019

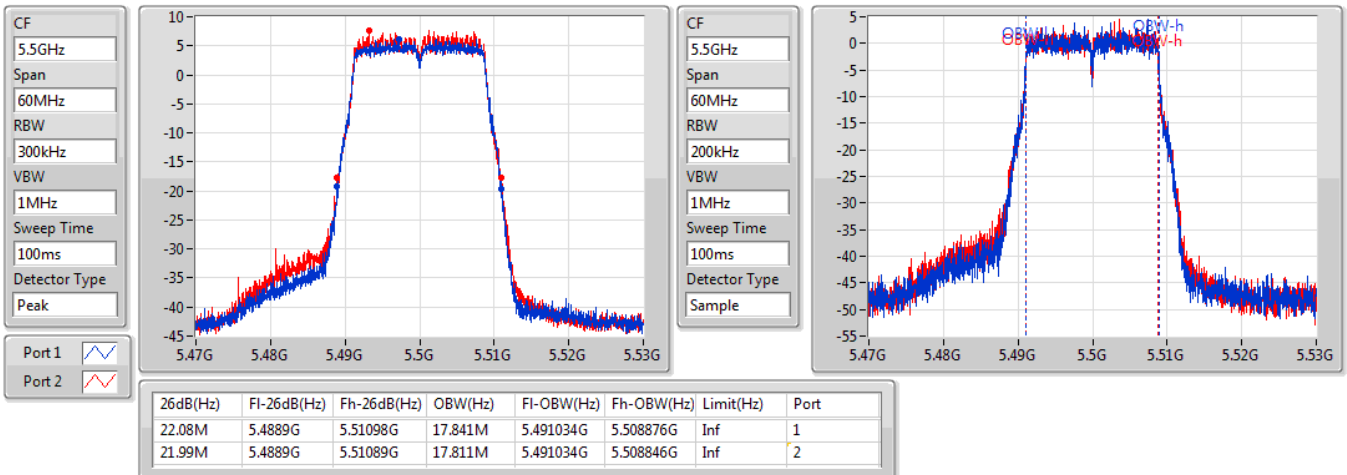


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

#### 5500MHz

21/08/2019



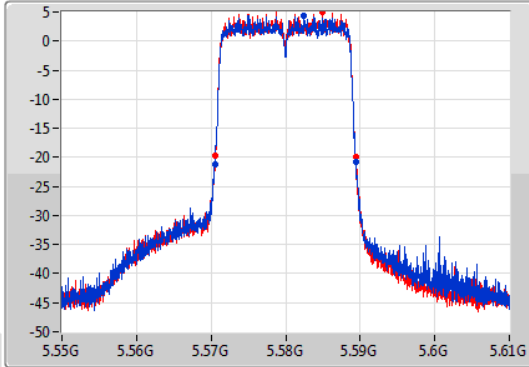
802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

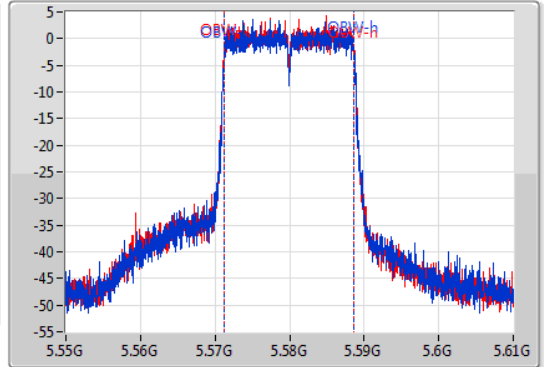
5580MHz

21/08/2019

CF  
5.58GHz  
Span  
60MHz  
RBW  
200kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.58GHz  
Span  
60MHz  
RBW  
200kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.99M	5.57049G	5.58948G	17.421M	5.571244G	5.588666G	Inf	1
18.9M	5.57055G	5.58945G	17.451M	5.571214G	5.588666G	Inf	2

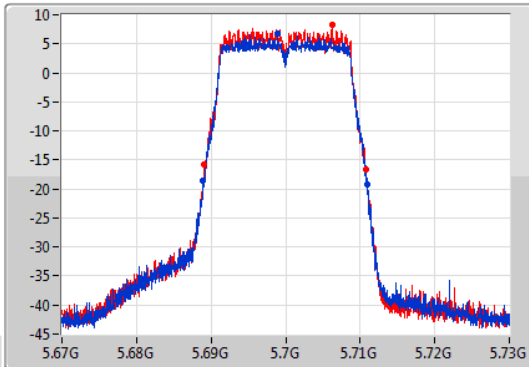
802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

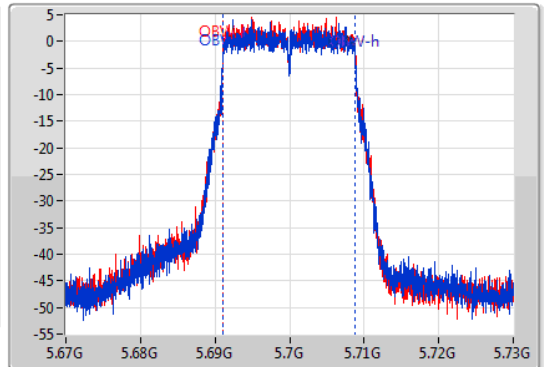
5700MHz

21/08/2019

CF  
5.7GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.7GHz  
Span  
60MHz  
RBW  
200kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Sample



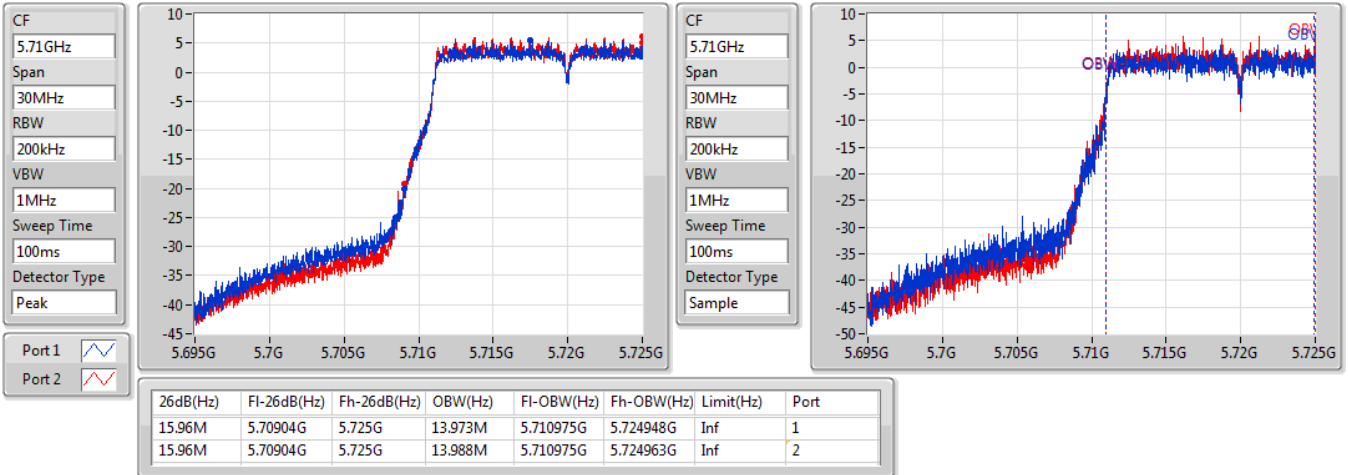
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.96M	5.68896G	5.71092G	17.781M	5.691064G	5.708846G	Inf	1
21.75M	5.68908G	5.71083G	17.781M	5.691064G	5.708846G	Inf	2

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

#### 5720MHz Straddle 5.47-5.725GHz

21/08/2019

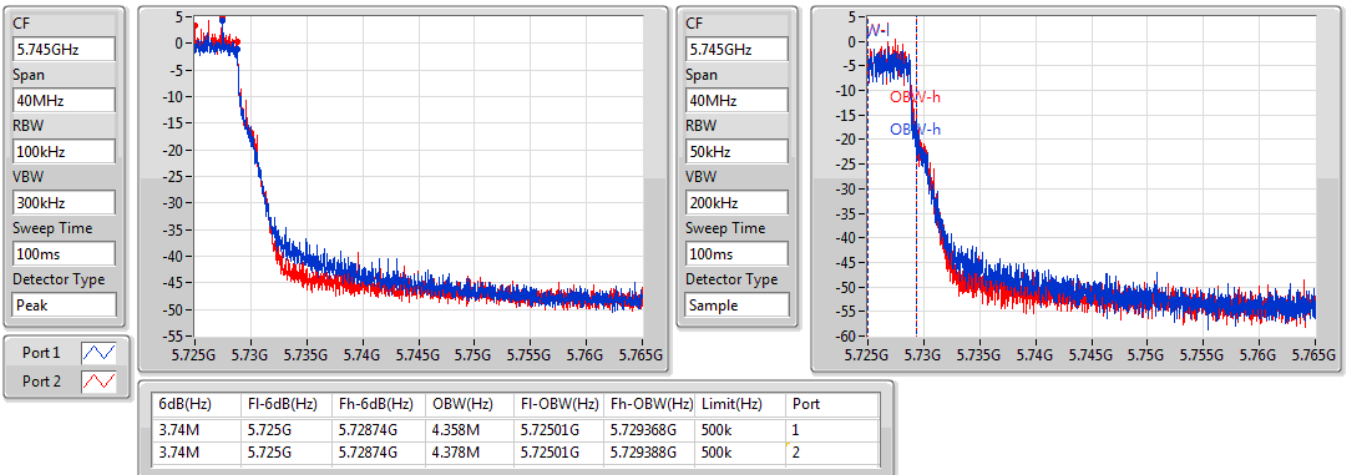


### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

#### 5720MHz Straddle 5.725-5.85GHz

21/08/2019



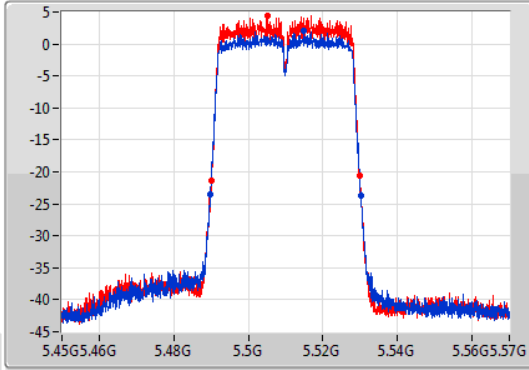
802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

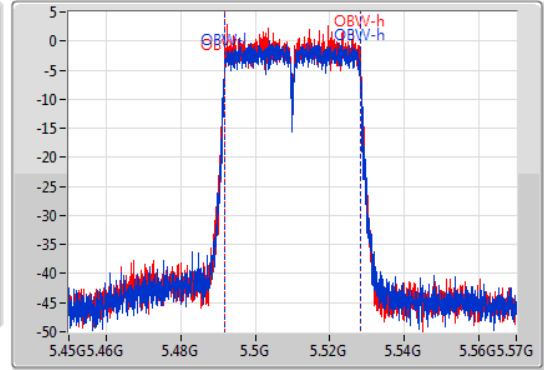
5510MHz

21/08/2019

CF  
5.51GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.51GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.48984G	5.5301G	36.342M	5.491769G	5.528111G	Inf	1
39.78M	5.49008G	5.52986G	36.222M	5.491829G	5.528051G	Inf	2

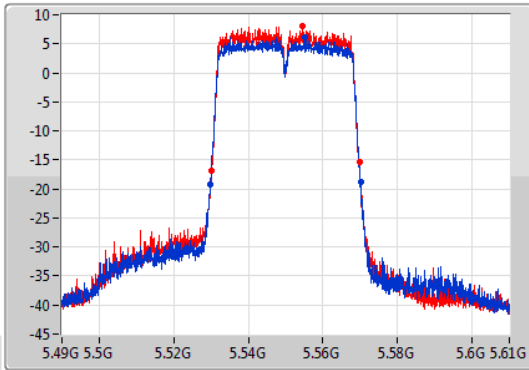
802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

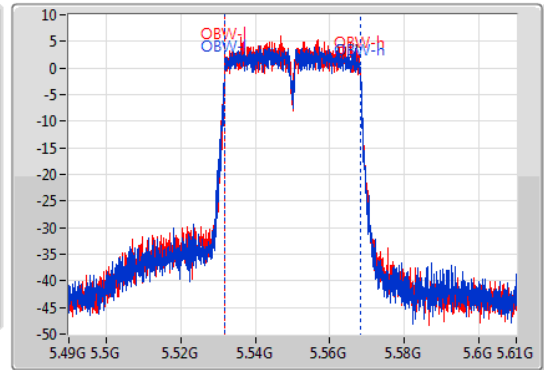
5550MHz

21/08/2019

CF  
5.55GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.55GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.38M	5.52972G	5.5701G	36.282M	5.531829G	5.568111G	Inf	1
39.84M	5.53008G	5.56992G	36.282M	5.531769G	5.568051G	Inf	2

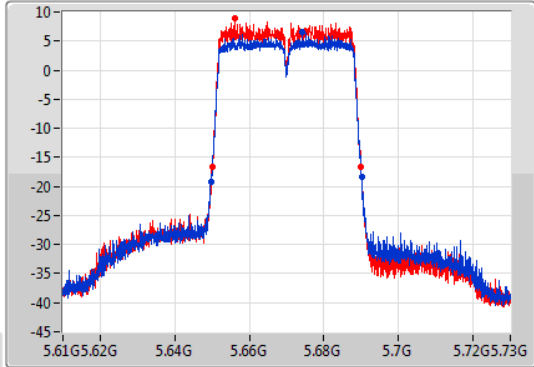
802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

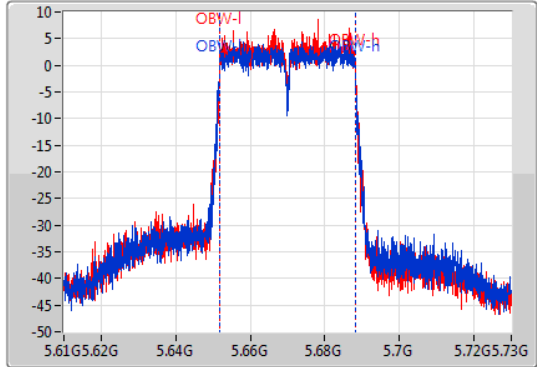
5670MHz

21/08/2019

CF  
5.67GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.67GHz  
Span  
120MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Sample



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.5M	5.64966G	5.69016G	36.342M	5.651769G	5.688111G	Inf	1
39.84M	5.65002G	5.68986G	36.342M	5.651769G	5.688111G	Inf	2

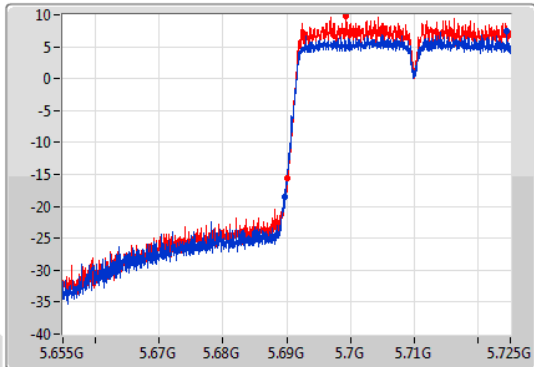
802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

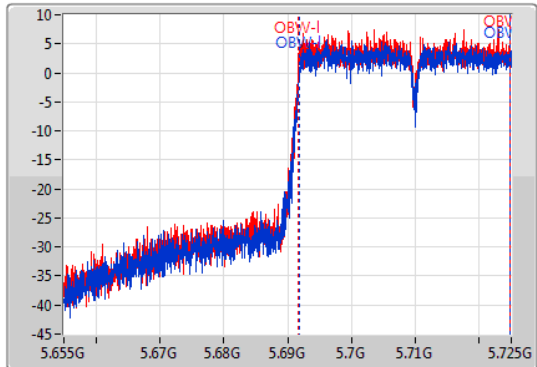
5710MHz Straddle 5.47-5.725GHz

21/08/2019

CF  
5.69GHz  
Span  
70MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.69GHz  
Span  
70MHz  
RBW  
500kHz  
VBW  
2MHz  
Sweep Time  
100ms  
Detector Type  
Sample



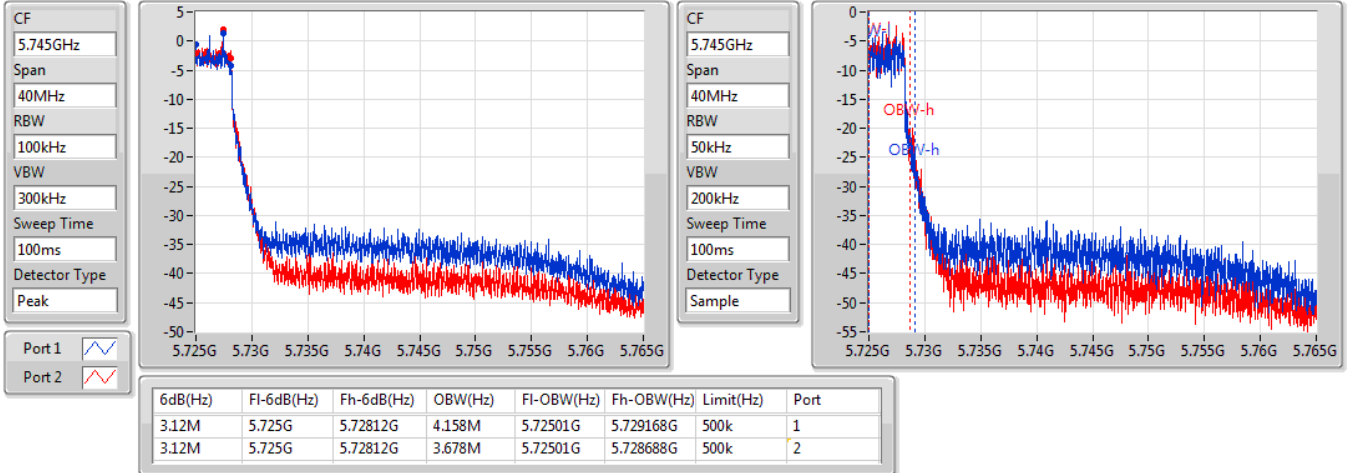
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.385M	5.689615G	5.725G	32.989M	5.691819G	5.724808G	Inf	1
34.965M	5.690035G	5.725G	33.093M	5.691749G	5.724843G	Inf	2

### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

#### 5710MHz Straddle 5.725-5.85GHz

21/08/2019

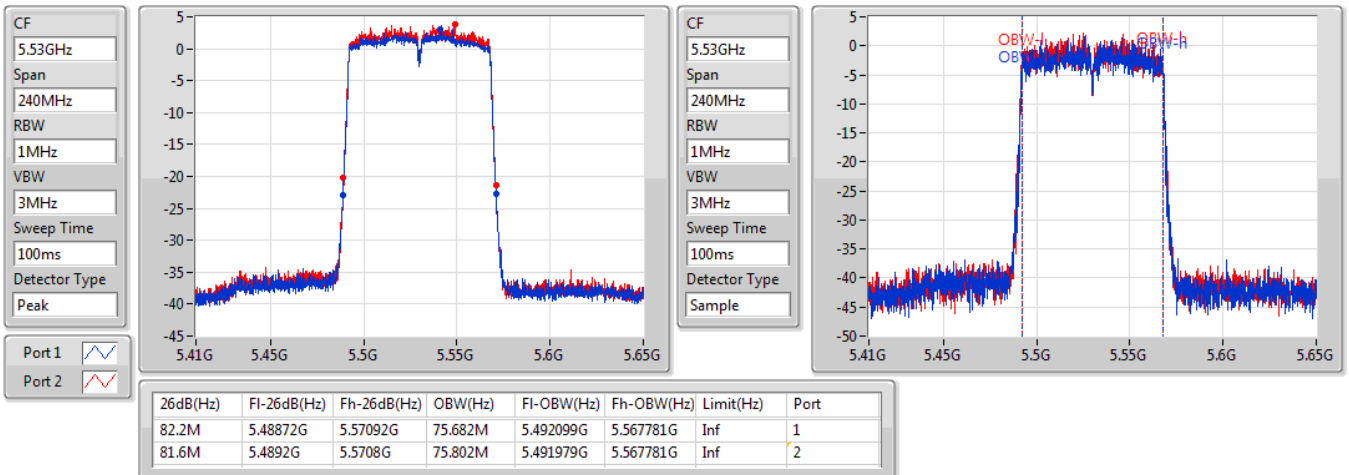


### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

EBW

#### 5530MHz

21/08/2019

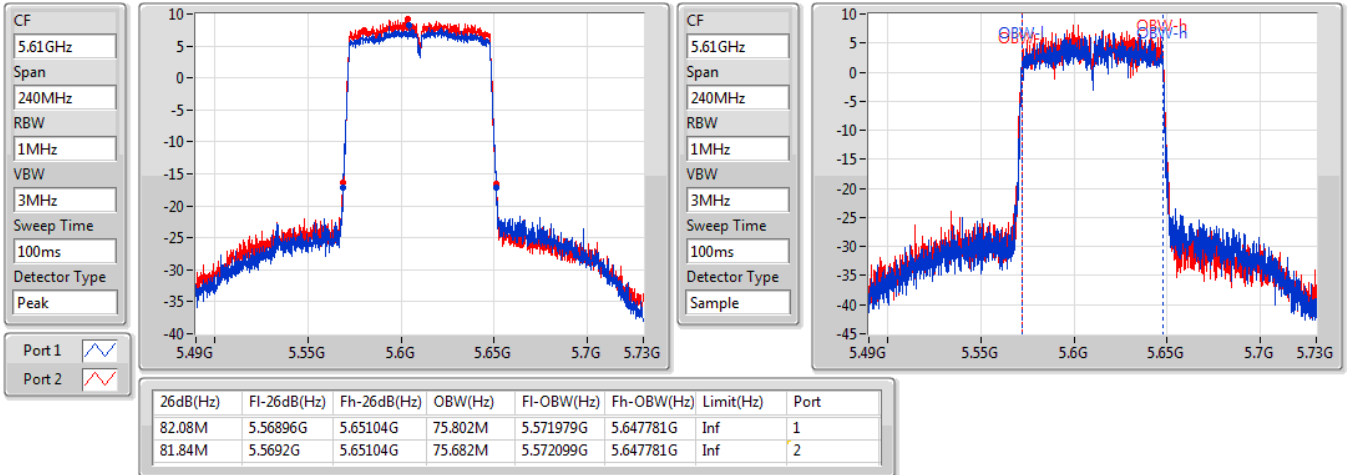


802.11ac VHT80\_Nss1,(MCS0)\_2TX

EBW

5610MHz

21/08/2019

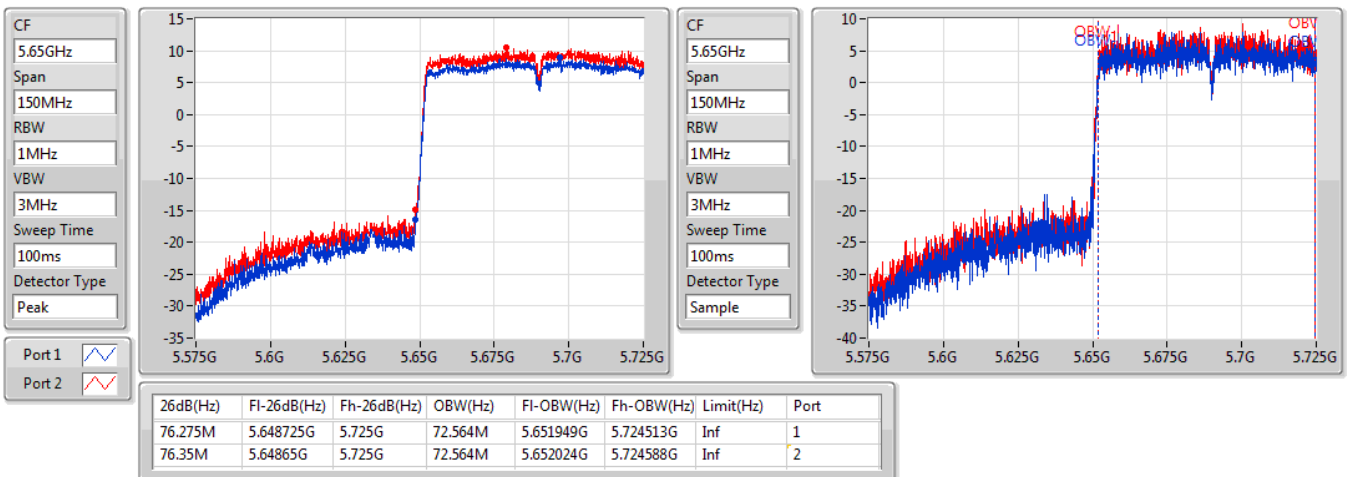


802.11ac VHT80\_Nss1,(MCS0)\_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

21/08/2019

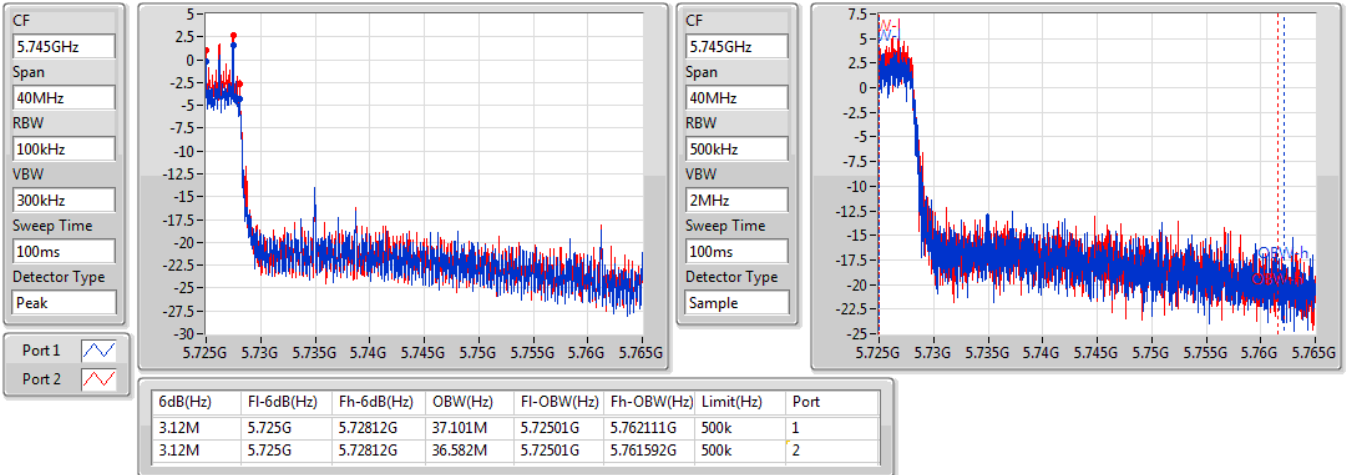


**802.11ac VHT80\_Nss1,(MCS0)\_2TX**

**EBW**

**5690MHz Straddle 5.725-5.85GHz**

21/08/2019







Result

Mode	Frequency	DG (dBi)	Conducted Power (dBm)			Max. Limit (dBm)	Result
			Chain 1	Chain 2	Total		
802.11a	5260 MHz	3.19	19.82	20.85	23.38	23.98	PASS
	5300 MHz	3.19	18.94	19.93	22.47	23.98	PASS
	5320 MHz	3.19	17.84	18.86	21.39	23.98	PASS
802.11ac MCS0/Nss1 VHT20	5260 MHz	3.19	19.86	21.00	23.48	23.98	PASS
	5300 MHz	3.19	18.82	19.65	22.27	23.98	PASS
	5320 MHz	3.19	17.68	18.36	21.04	23.98	PASS
802.11ac MCS0/Nss1 VHT40	5270 MHz	3.19	18.98	19.96	22.51	23.98	PASS
	5310 MHz	3.19	15.38	16.41	18.94	23.98	PASS
802.11ac MCS0/Nss1 VHT80	5290 MHz	3.19	14.87	15.71	18.32	23.98	PASS



Summary

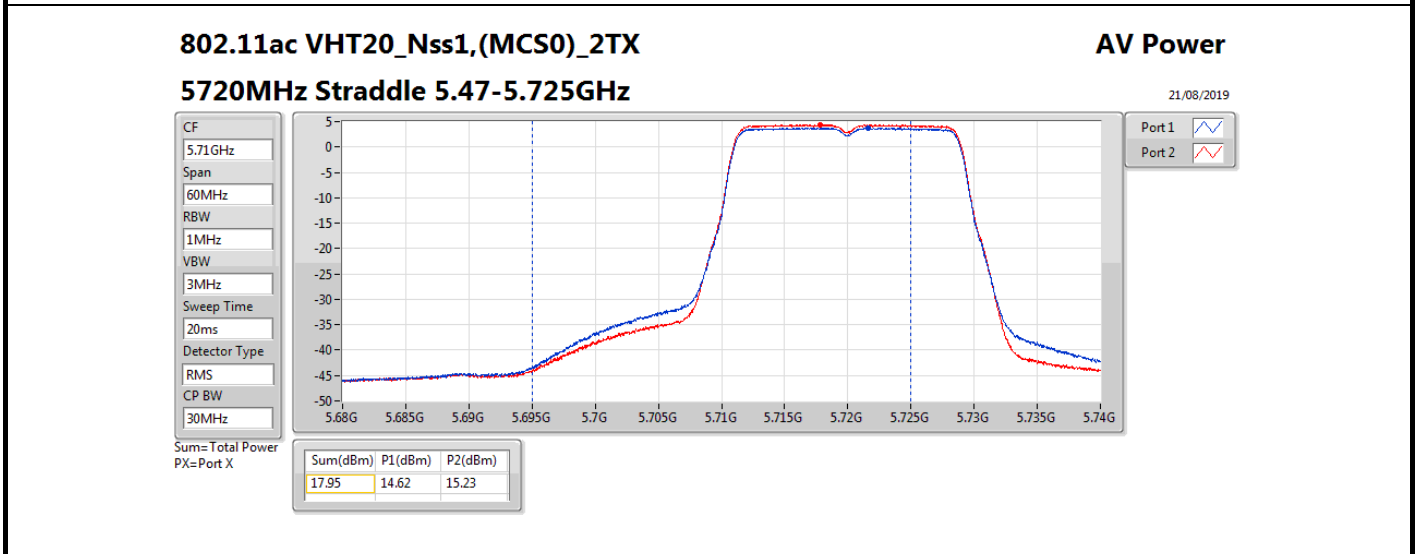
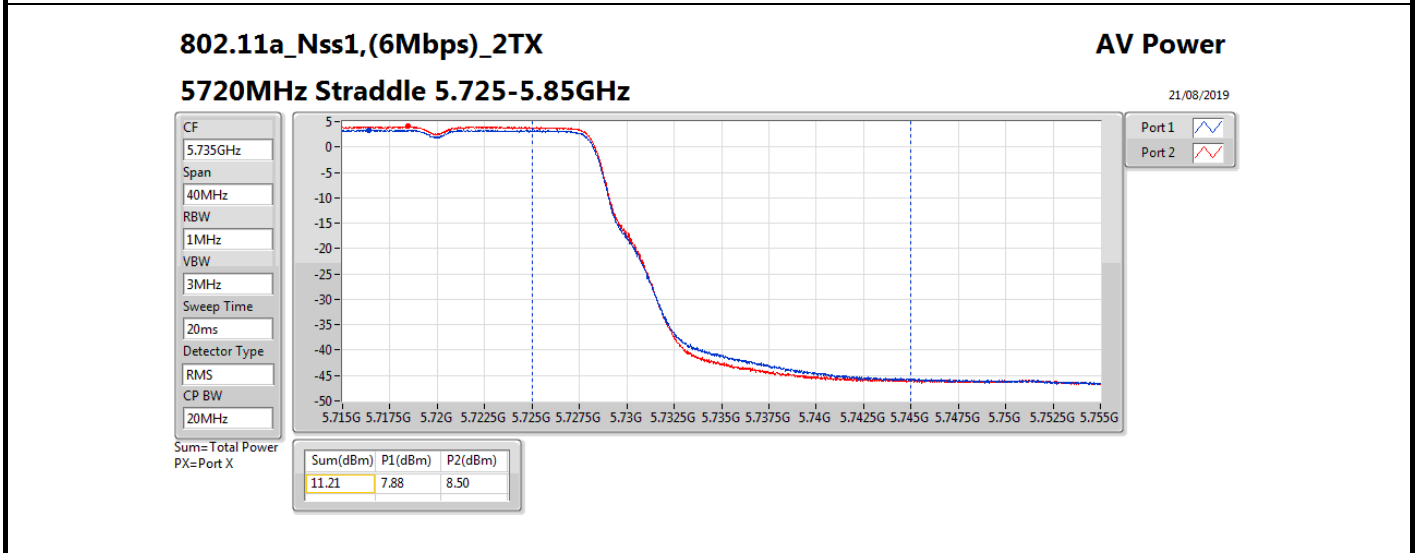
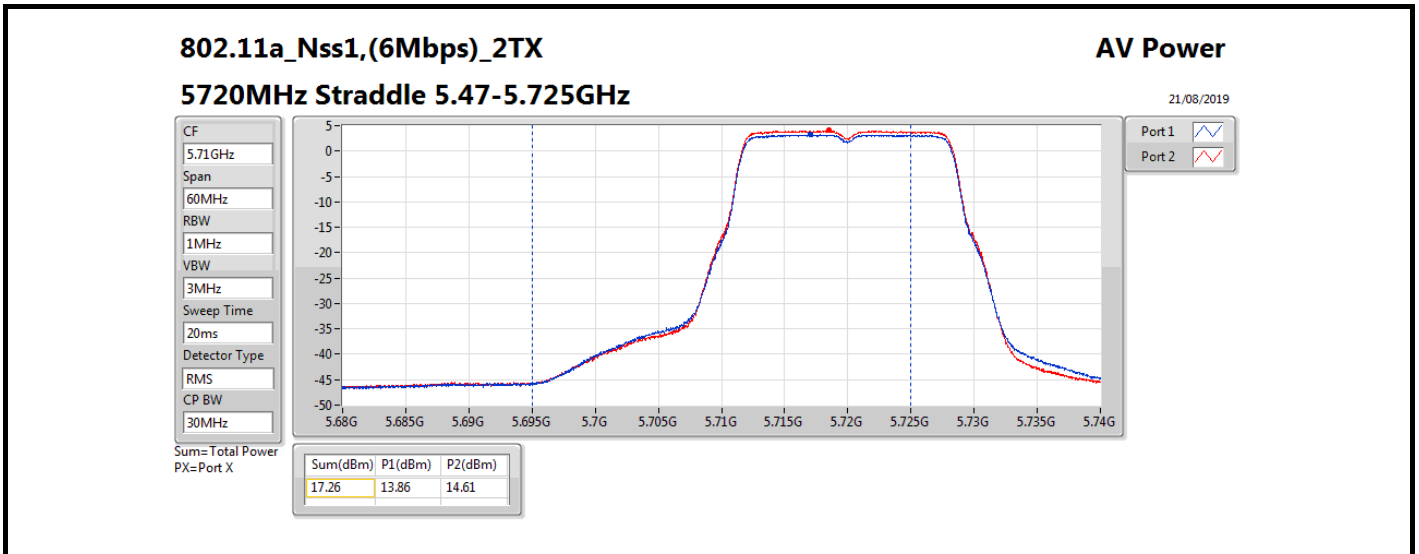
Mode	Total Power (dBm)	Total Power (W)
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	17.67	0.05848
802.11ac VHT20_Nss1,(MCS0)_2TX	18.54	0.07145
802.11ac VHT40_Nss1,(MCS0)_2TX	19.34	0.08590
802.11ac VHT80_Nss1,(MCS0)_2TX	21.00	0.12589
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.21	0.01321
802.11ac VHT20_Nss1,(MCS0)_2TX	12.48	0.01770
802.11ac VHT40_Nss1,(MCS0)_2TX	9.12	0.00817
802.11ac VHT80_Nss1,(MCS0)_2TX	6.85	0.00484

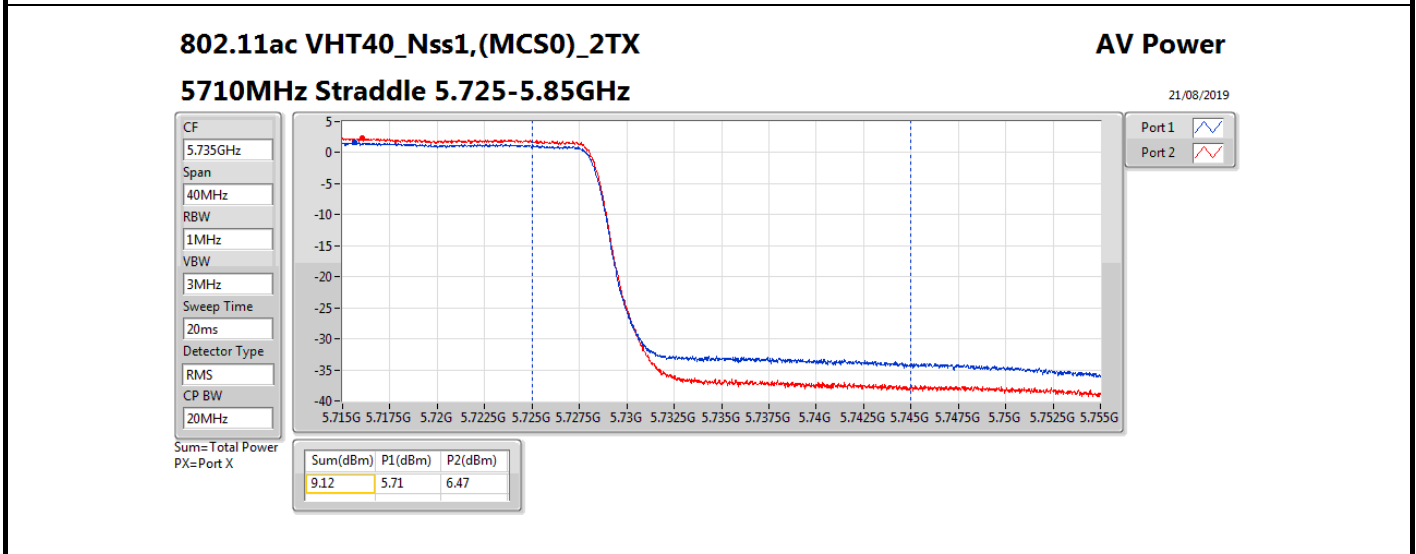
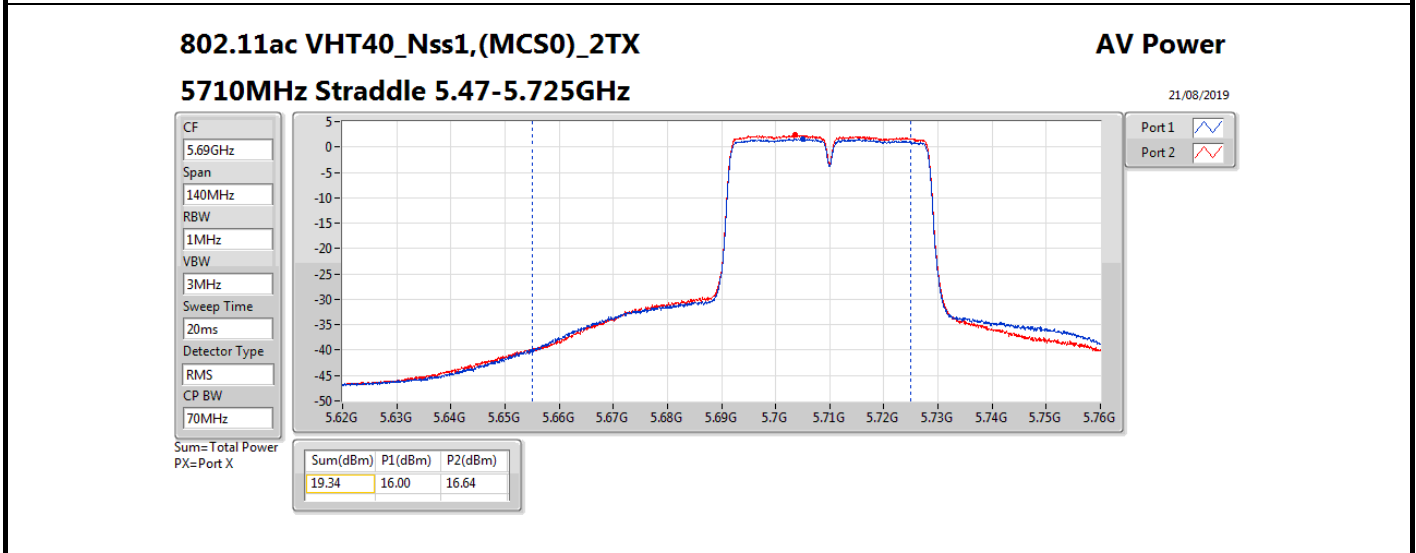
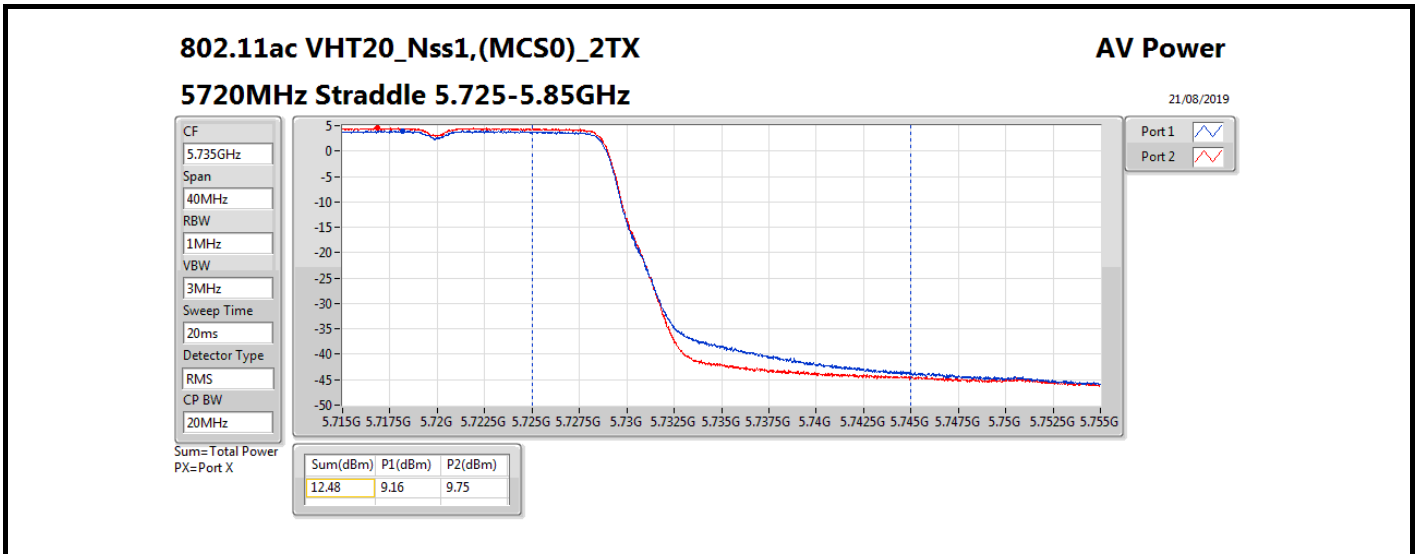


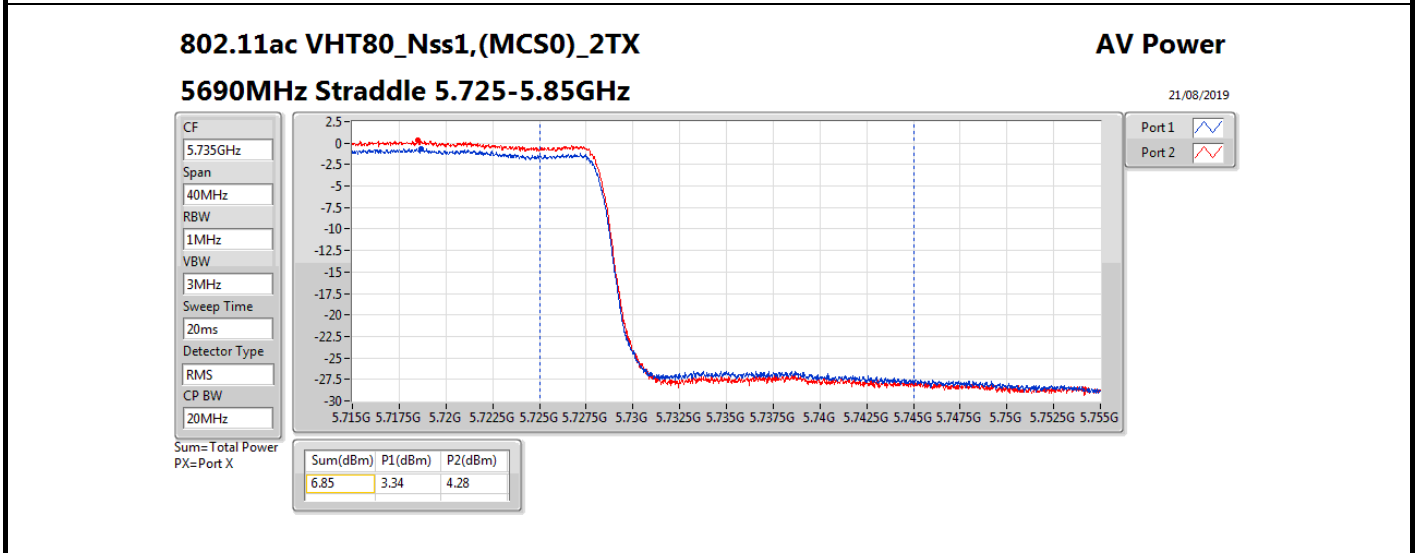
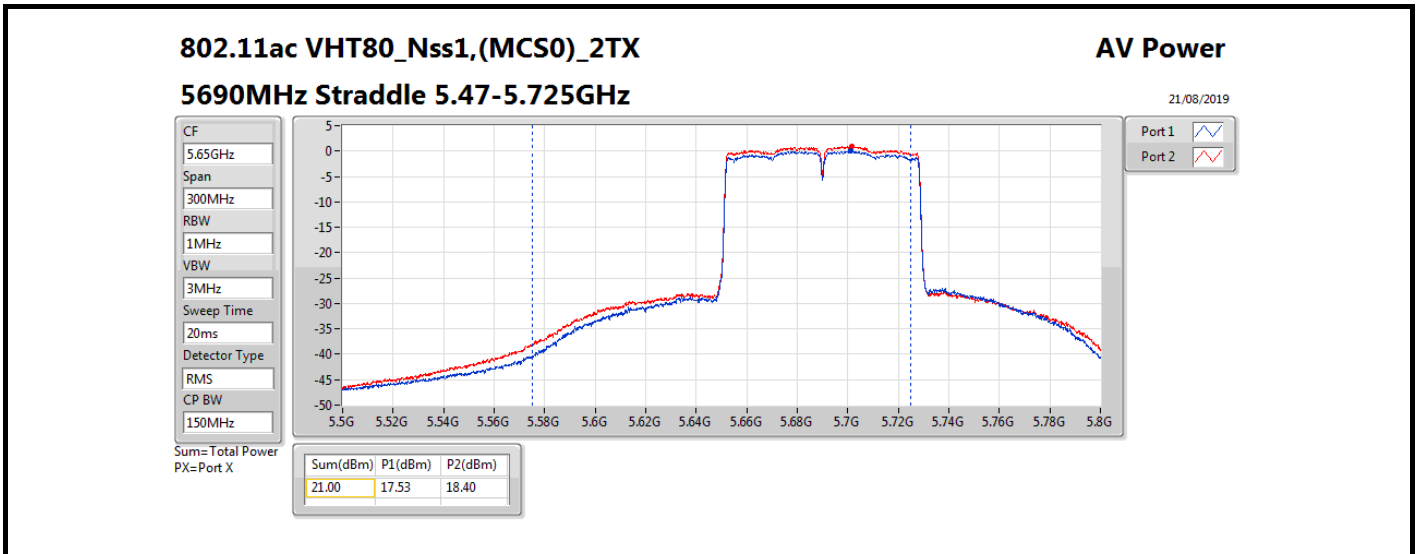
Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	3.19	14.15	14.62	17.40	23.98
5580MHz	Pass	3.19	13.66	14.19	16.94	23.67
5700MHz	Pass	3.19	14.30	15.00	17.67	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.19	13.86	14.61	17.26	23.03
5720MHz Straddle 5.725-5.85GHz	Pass	3.19	7.88	8.50	11.21	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	3.19	15.09	15.43	18.27	23.98
5580MHz	Pass	3.19	14.55	14.88	17.73	23.76
5700MHz	Pass	3.19	15.09	15.92	18.54	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	3.19	14.62	15.23	17.95	23.03
5720MHz Straddle 5.725-5.85GHz	Pass	3.19	9.16	9.75	12.48	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	3.19	11.54	12.05	14.81	23.98
5550MHz	Pass	3.19	15.25	15.43	18.35	23.98
5670MHz	Pass	3.19	15.23	16.07	18.68	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	3.19	16.00	16.64	19.34	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	3.19	5.71	6.47	9.12	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	3.19	11.03	11.50	14.28	23.98
5610MHz	Pass	3.19	16.40	17.04	19.74	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	3.19	17.53	18.40	21.00	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	3.19	3.34	4.28	6.85	30.00

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



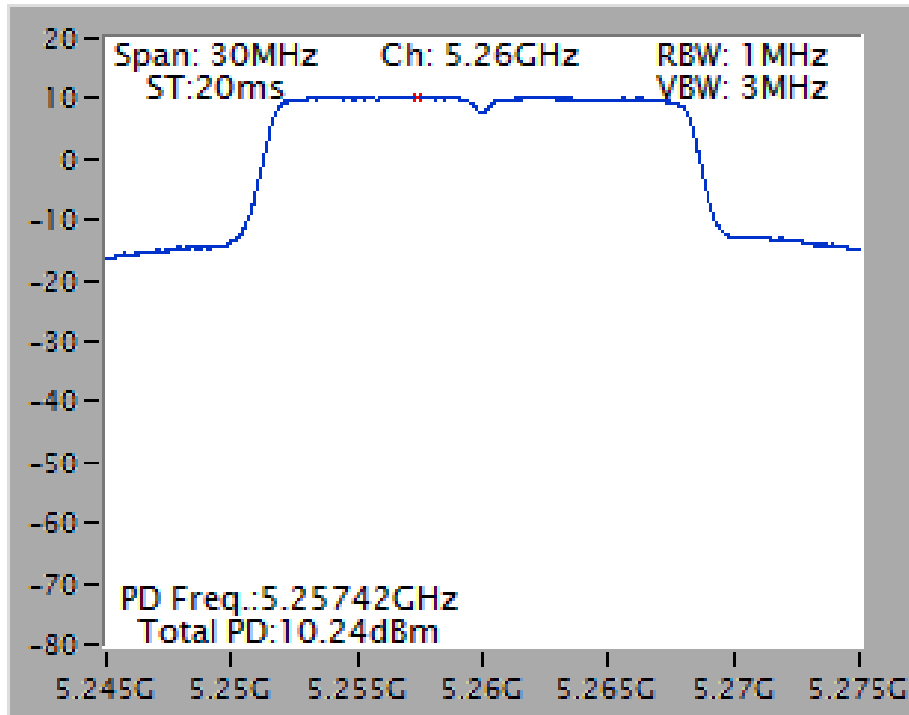




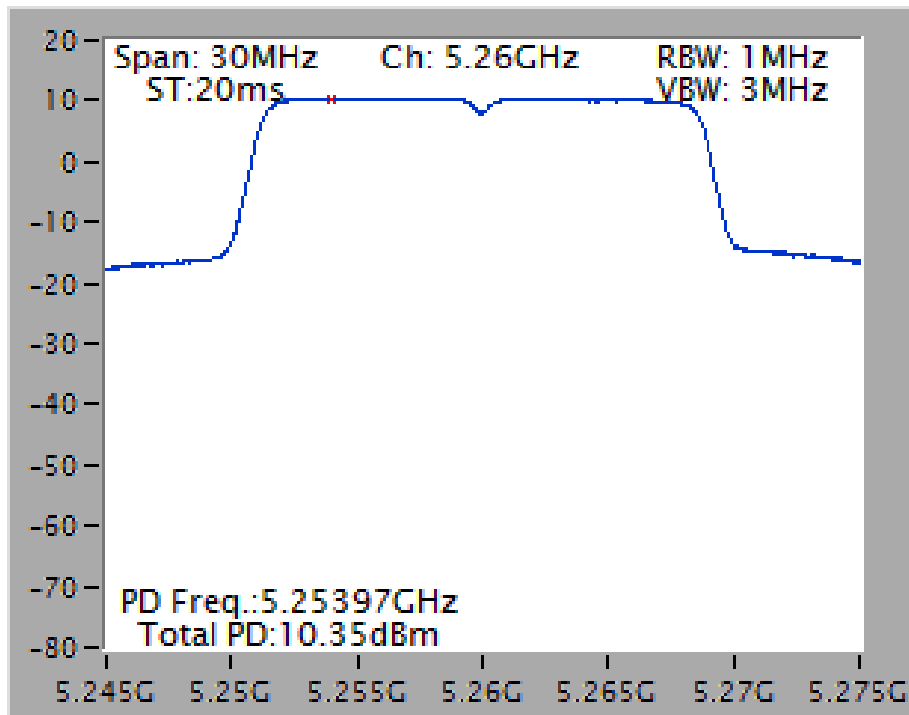
**Result**

Mode	Frequency	DG (dBi)	Power Density (dBm/MHz)	Max. Limit (dBm)	Result
802.11a	5260 MHz	6.20	10.24	10.80	PASS
	5300 MHz	6.20	9.34	10.80	PASS
	5320 MHz	6.20	8.30	10.80	PASS
802.11ac MCS0/Nss1 VHT20	5260 MHz	6.20	10.35	10.80	PASS
	5300 MHz	6.20	9.15	10.80	PASS
	5320 MHz	6.20	8.04	10.80	PASS
802.11ac MCS0/Nss1 VHT40	5270 MHz	6.20	6.46	10.80	PASS
	5310 MHz	6.20	2.85	10.80	PASS
802.11ac MCS0/Nss1 VHT80	5290 MHz	6.20	-0.62	10.80	PASS

Power Density Plot on Configuration IEEE 802.11a / Chain 1 + Chain 2 / 5260 MHz

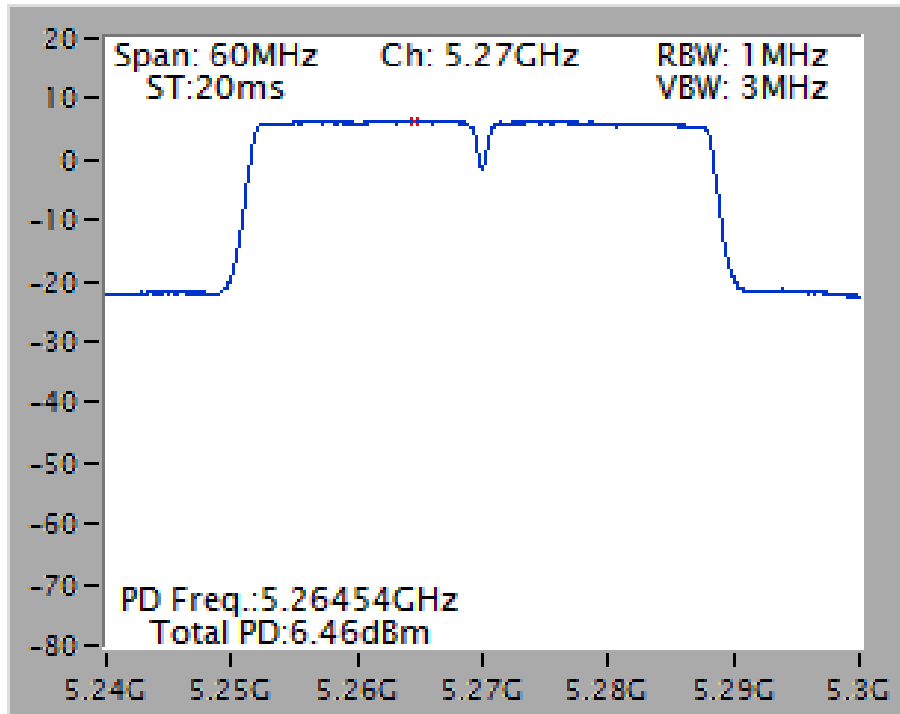


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 1 + Chain 2 / 5260 MHz

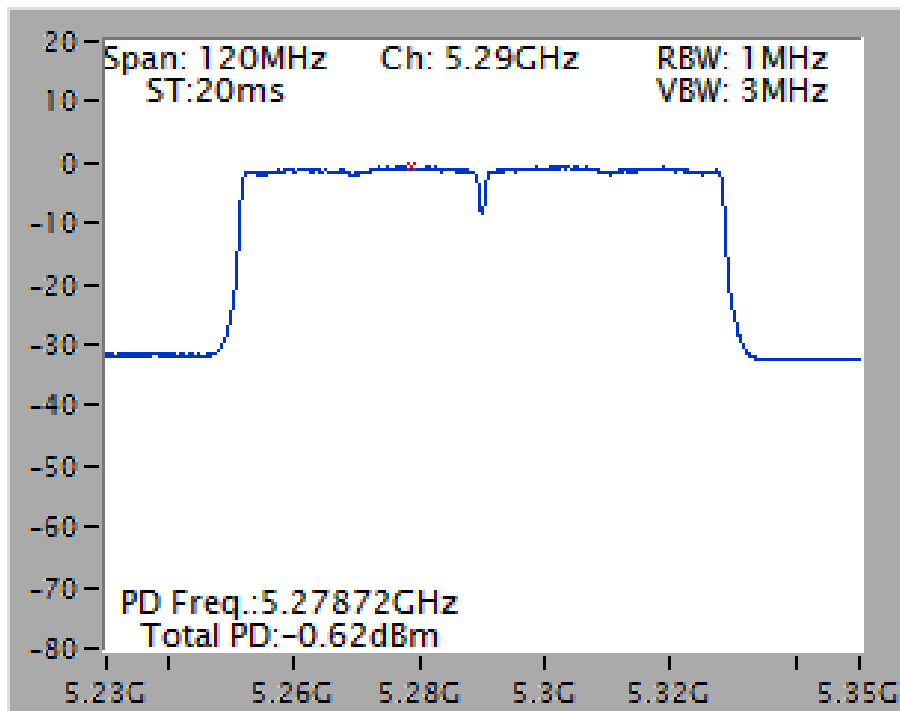




Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 1 + Chain 2 / 5270 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 1 + Chain 2 / 5290 MHz





Summary

Mode	PD (dBm/RBW)
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	5.05
802.11ac VHT20_Nss1,(MCS0)_2TX	5.56
802.11ac VHT40_Nss1,(MCS0)_2TX	3.43
802.11ac VHT80_Nss1,(MCS0)_2TX	2.08
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	3.39
802.11ac VHT20_Nss1,(MCS0)_2TX	4.02
802.11ac VHT40_Nss1,(MCS0)_2TX	1.50
802.11ac VHT80_Nss1,(MCS0)_2TX	0.94

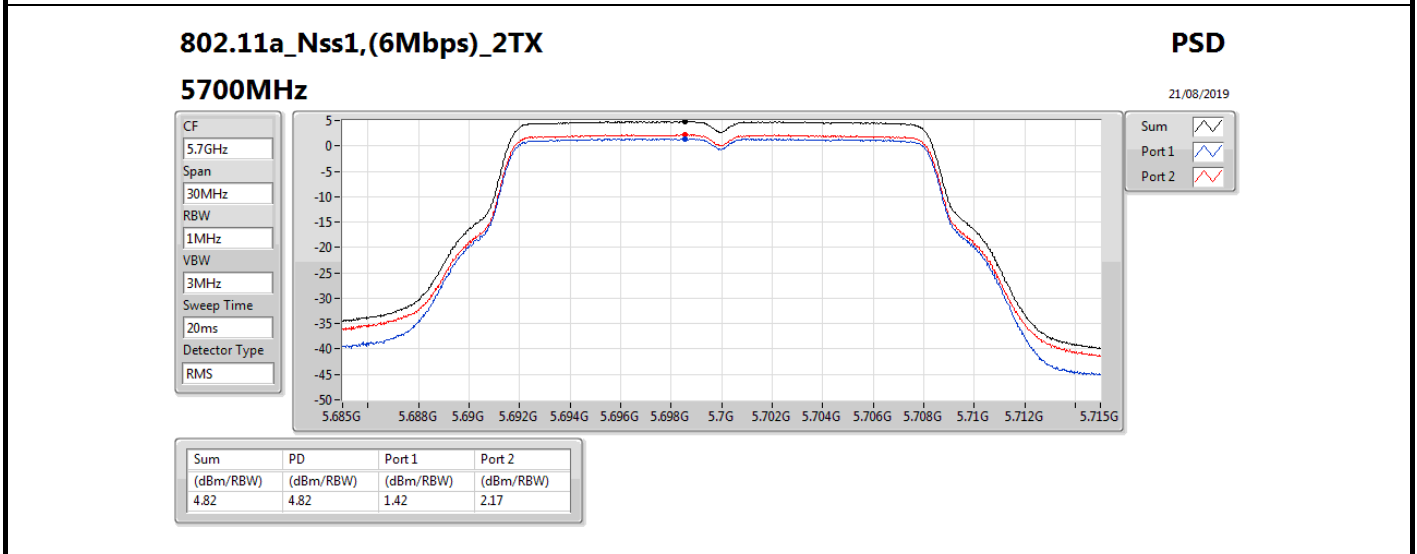
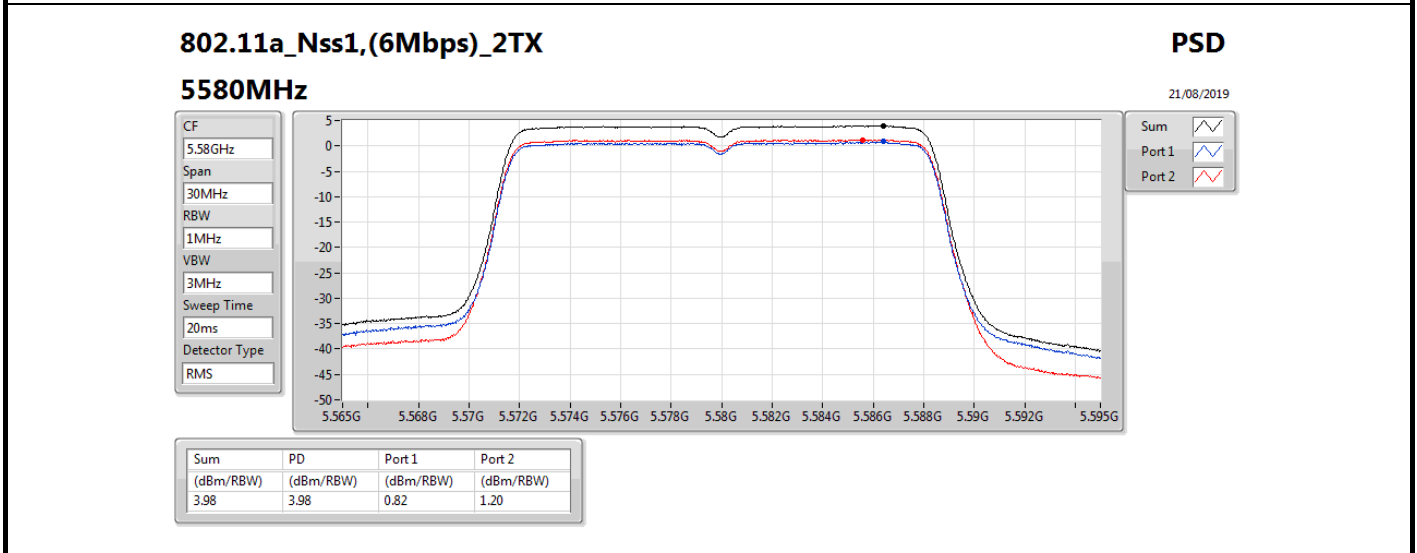
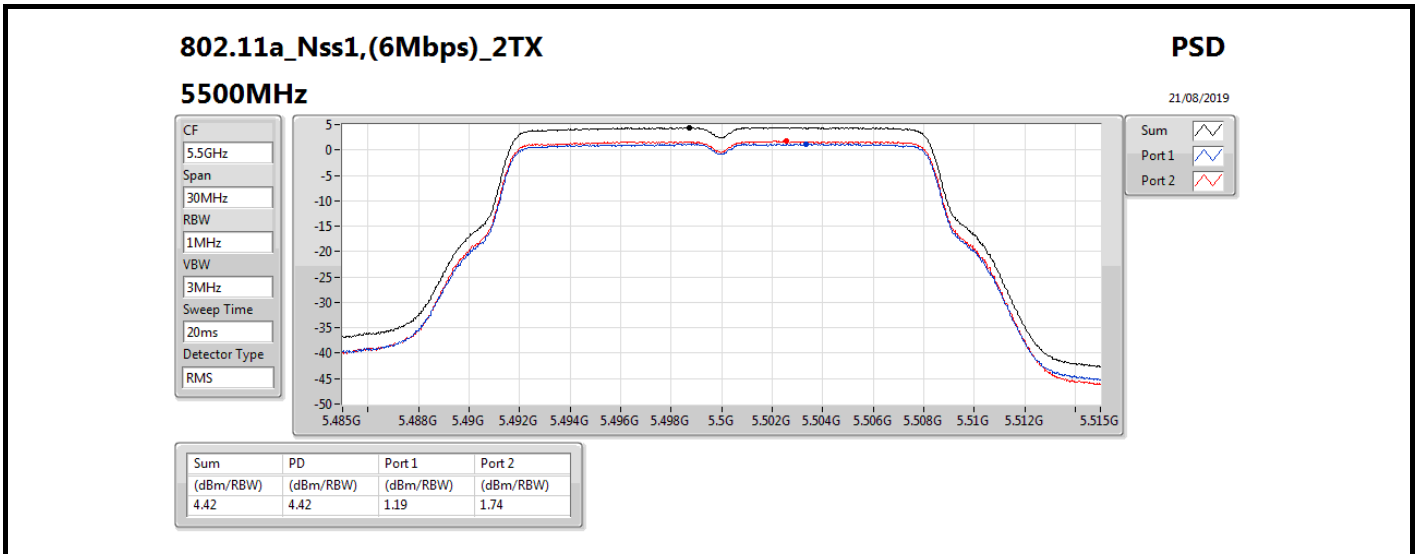
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

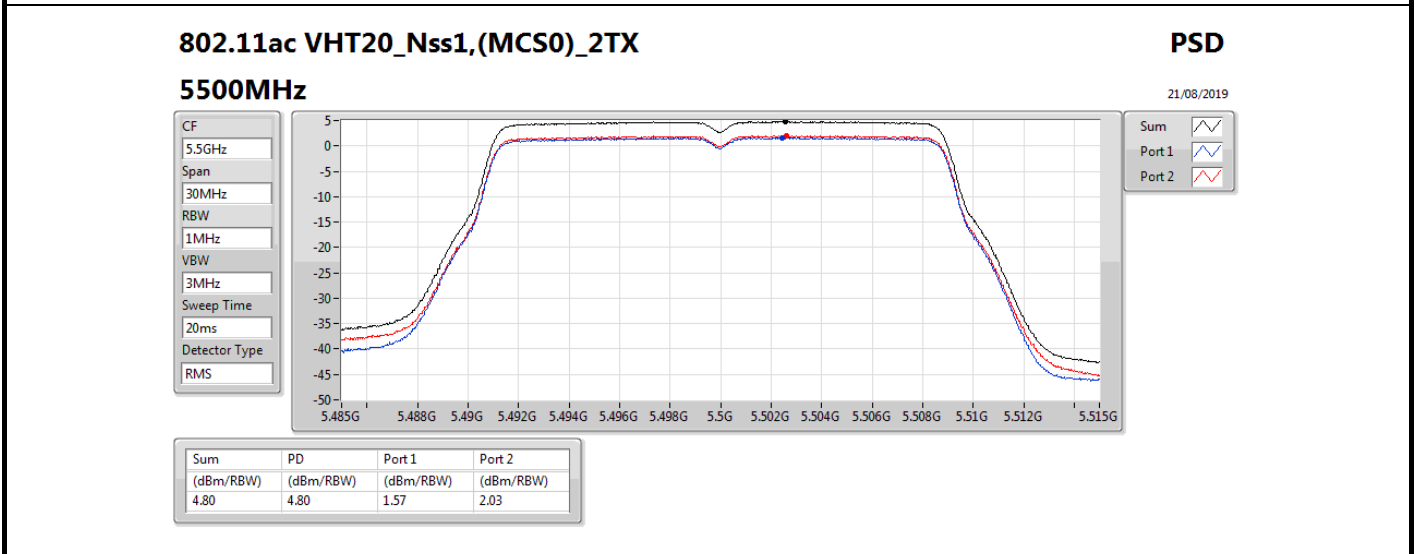
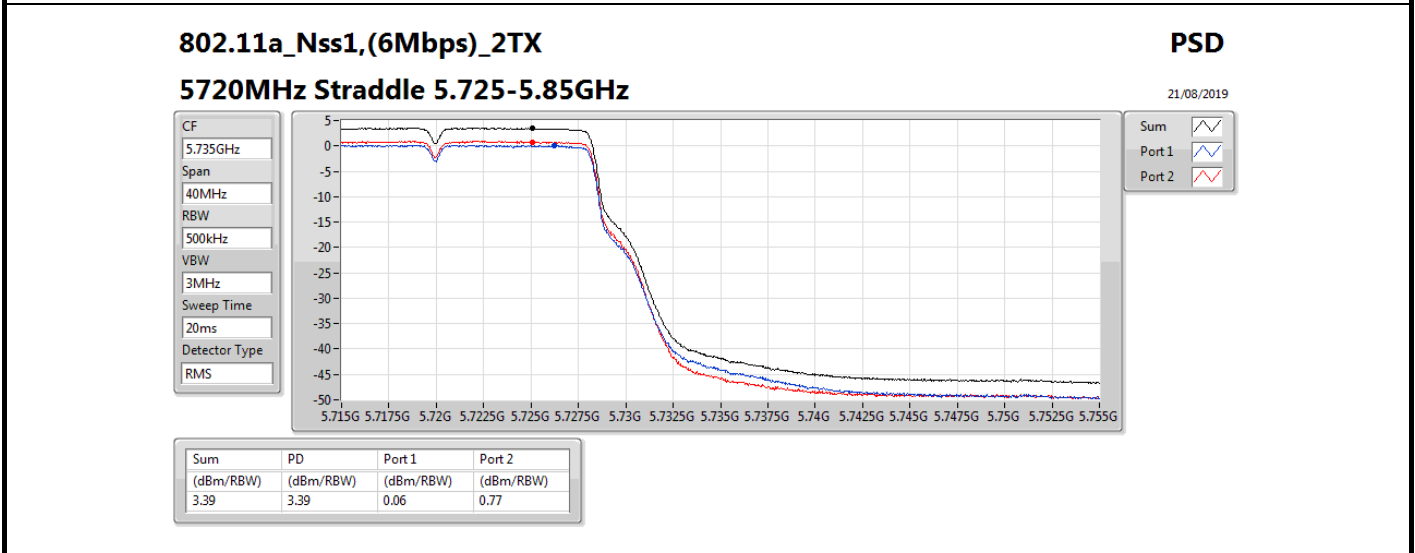
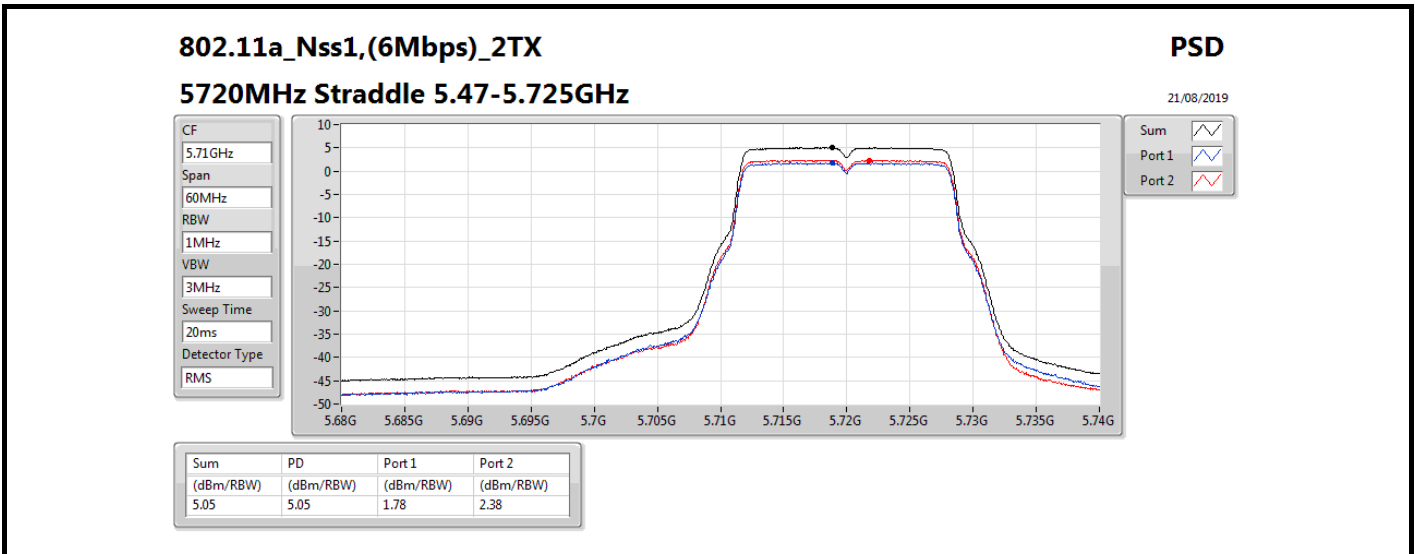
**Result**

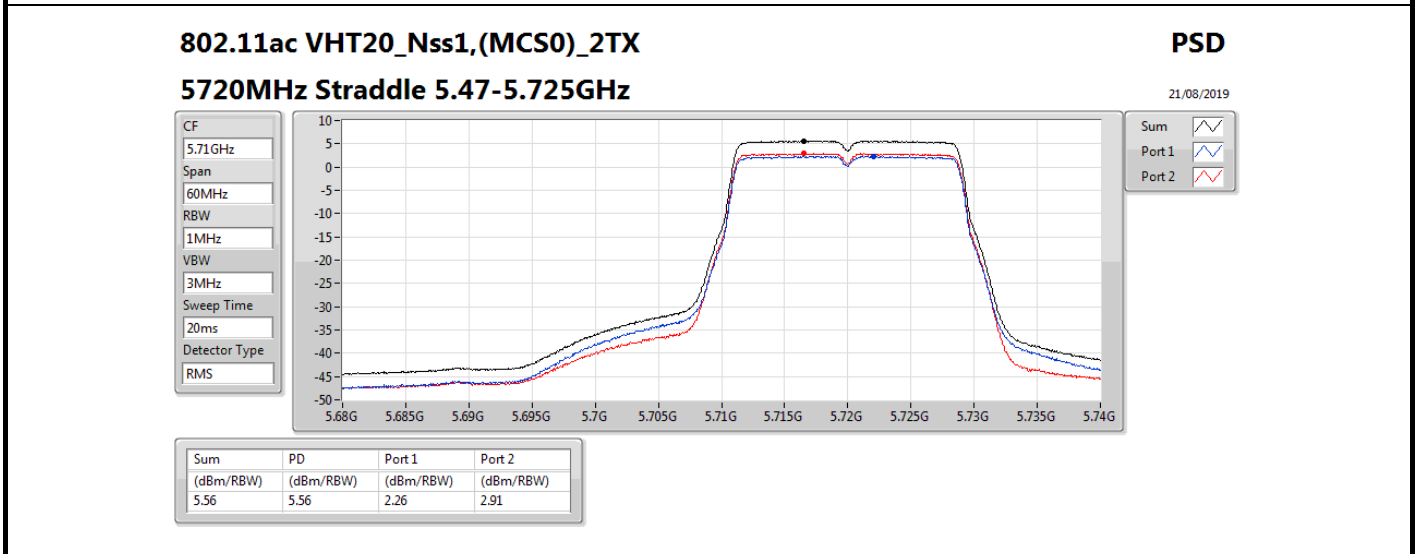
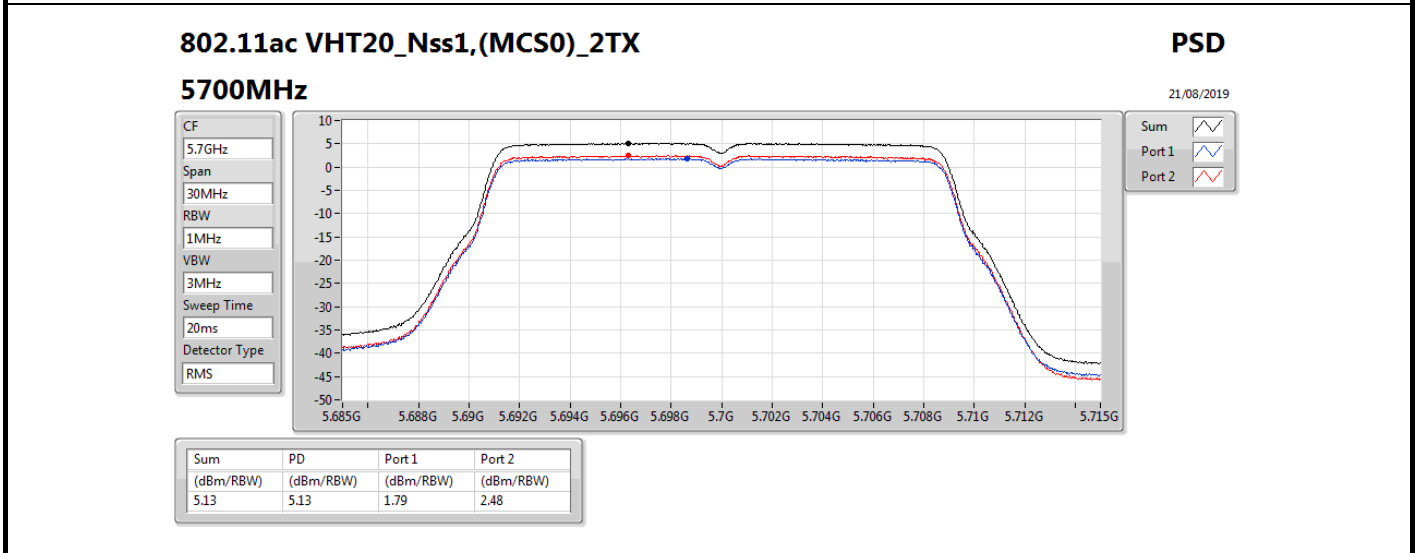
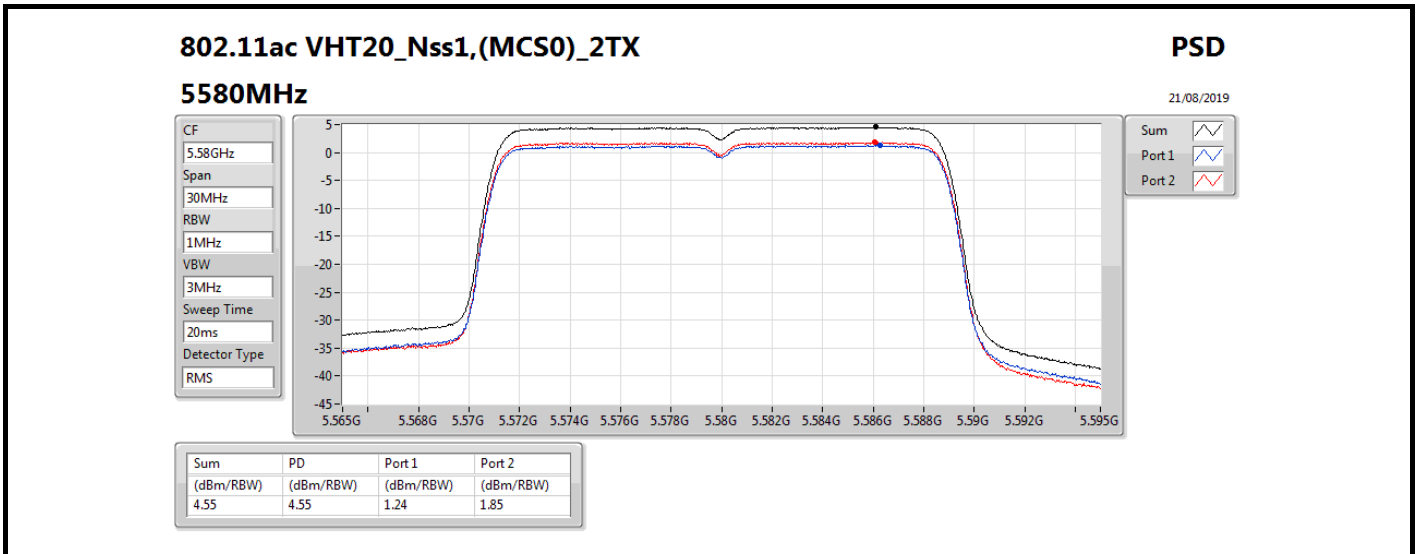
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5500MHz	Pass	6.20	1.19	1.74	4.42	10.80
5580MHz	Pass	6.20	0.82	1.20	3.98	10.80
5700MHz	Pass	6.20	1.42	2.17	4.82	10.80
5720MHz Straddle 5.47-5.725GHz	Pass	6.20	1.78	2.38	5.05	10.80
5720MHz Straddle 5.725-5.85GHz	Pass	6.20	0.06	0.77	3.39	29.80
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5500MHz	Pass	6.20	1.57	2.03	4.80	10.80
5580MHz	Pass	6.20	1.24	1.85	4.55	10.80
5700MHz	Pass	6.20	1.79	2.48	5.13	10.80
5720MHz Straddle 5.47-5.725GHz	Pass	6.20	2.26	2.91	5.56	10.80
5720MHz Straddle 5.725-5.85GHz	Pass	6.20	0.72	1.38	4.02	29.80
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5510MHz	Pass	6.20	-4.87	-4.12	-1.50	10.80
5550MHz	Pass	6.20	-0.86	-0.48	2.33	10.80
5670MHz	Pass	6.20	-0.91	-0.14	2.45	10.80
5710MHz Straddle 5.47-5.725GHz	Pass	6.20	0.10	0.71	3.43	10.80
5710MHz Straddle 5.725-5.85GHz	Pass	6.20	-1.77	-1.27	1.50	29.80
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5530MHz	Pass	6.20	-7.95	-7.41	-4.73	10.80
5610MHz	Pass	6.20	-2.58	-1.73	0.84	10.80
5690MHz Straddle 5.47-5.725GHz	Pass	6.20	-1.45	-0.47	2.08	10.80
5690MHz Straddle 5.725-5.85GHz	Pass	6.20	-2.54	-1.59	0.94	29.80

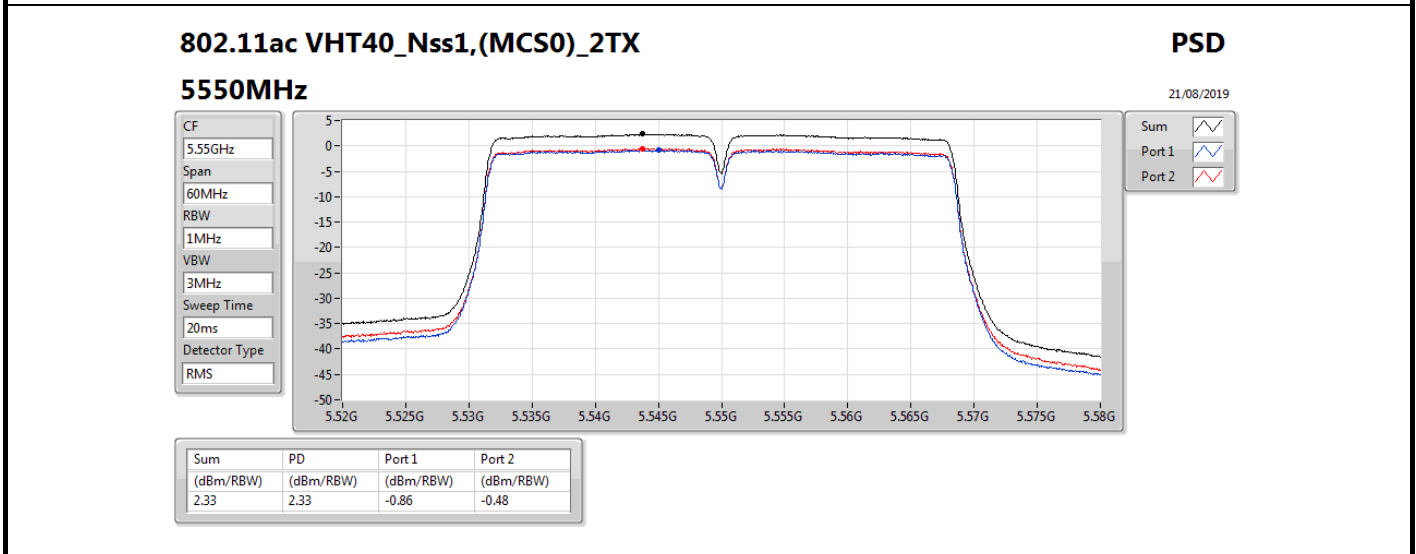
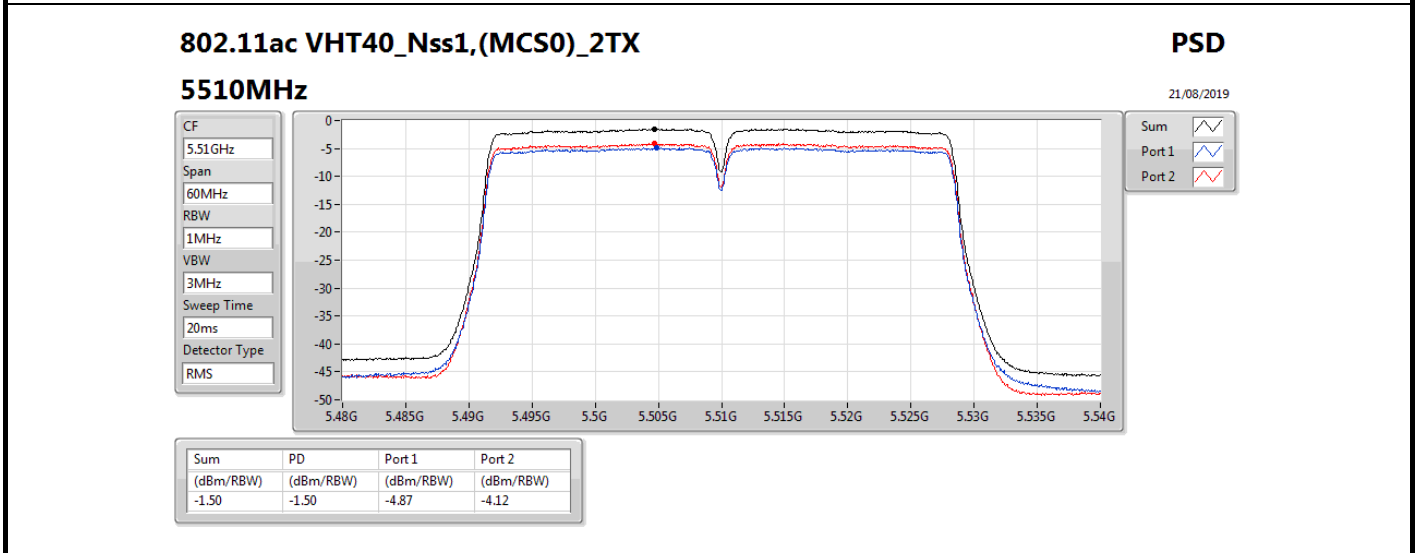
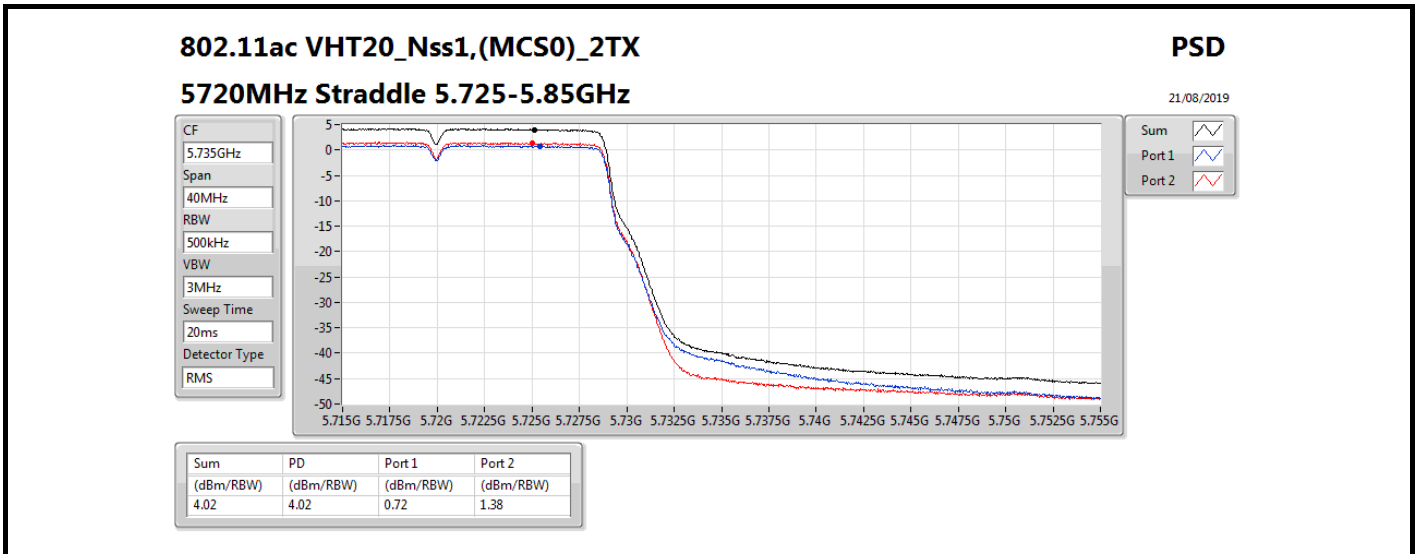
**DG** = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

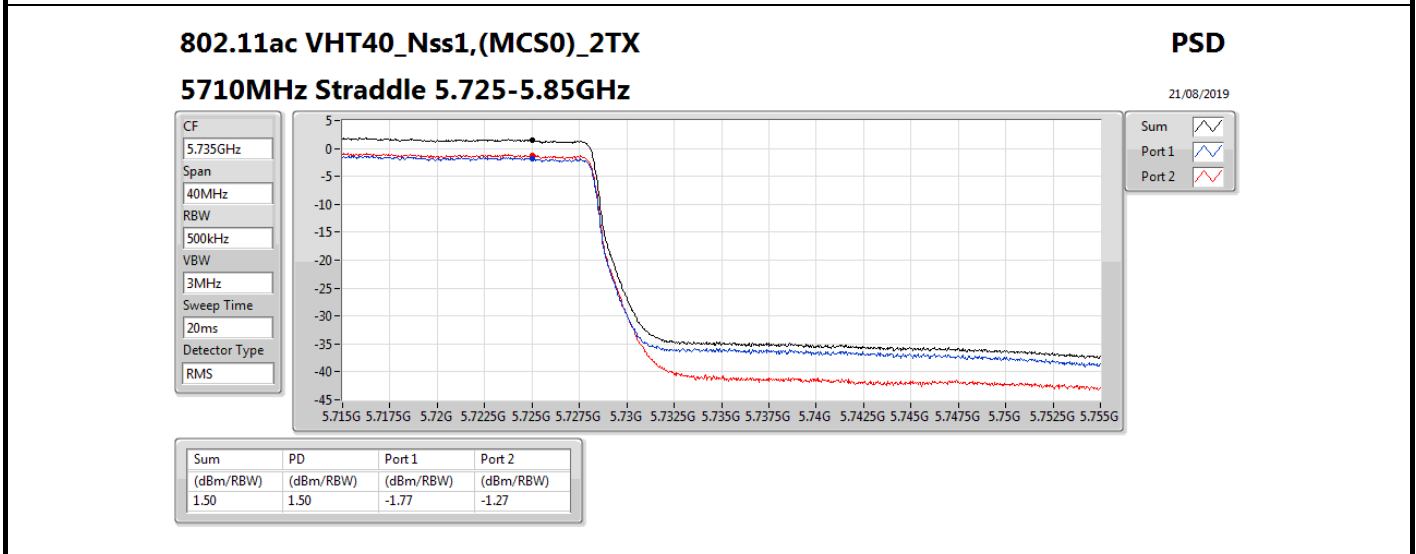
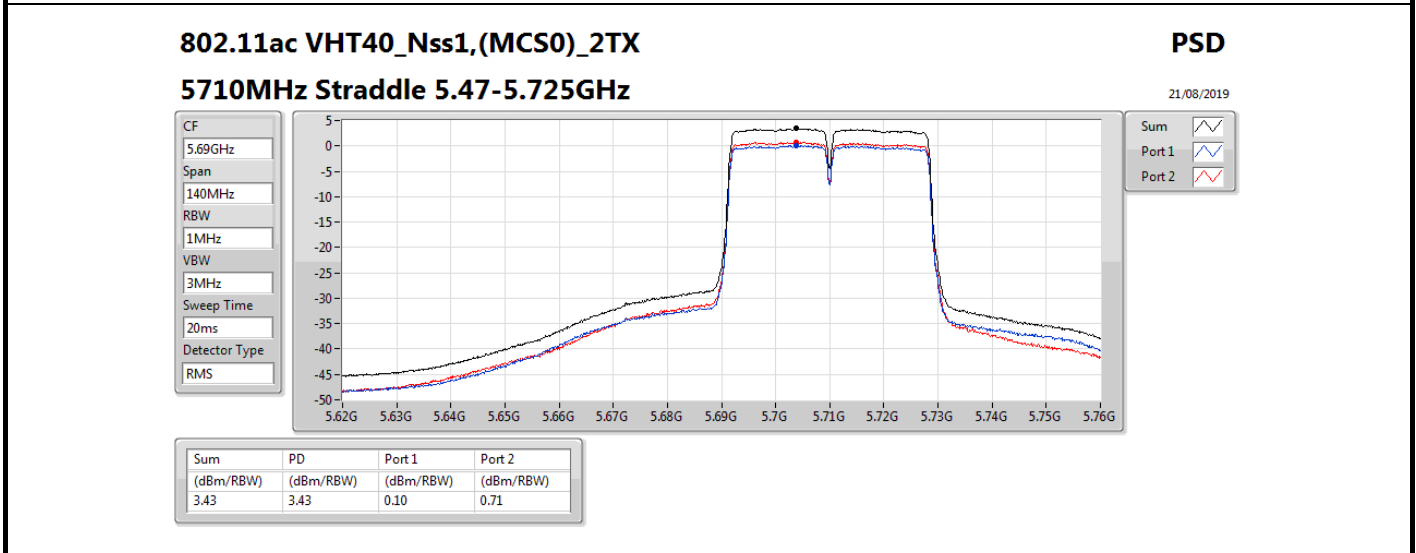
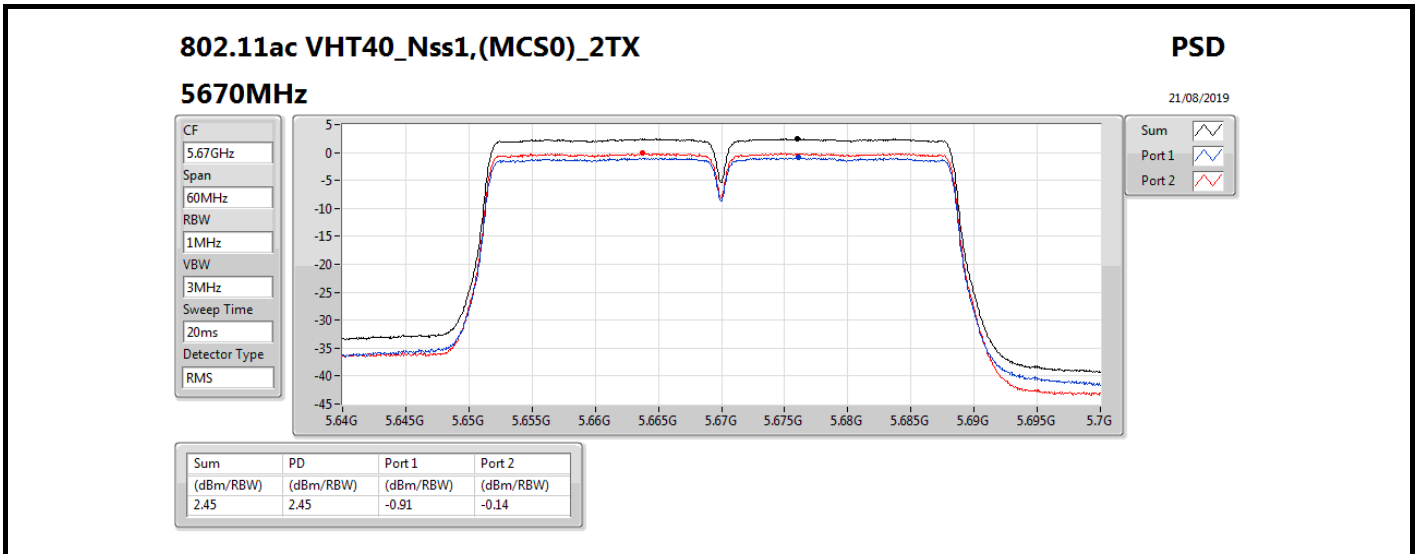
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;



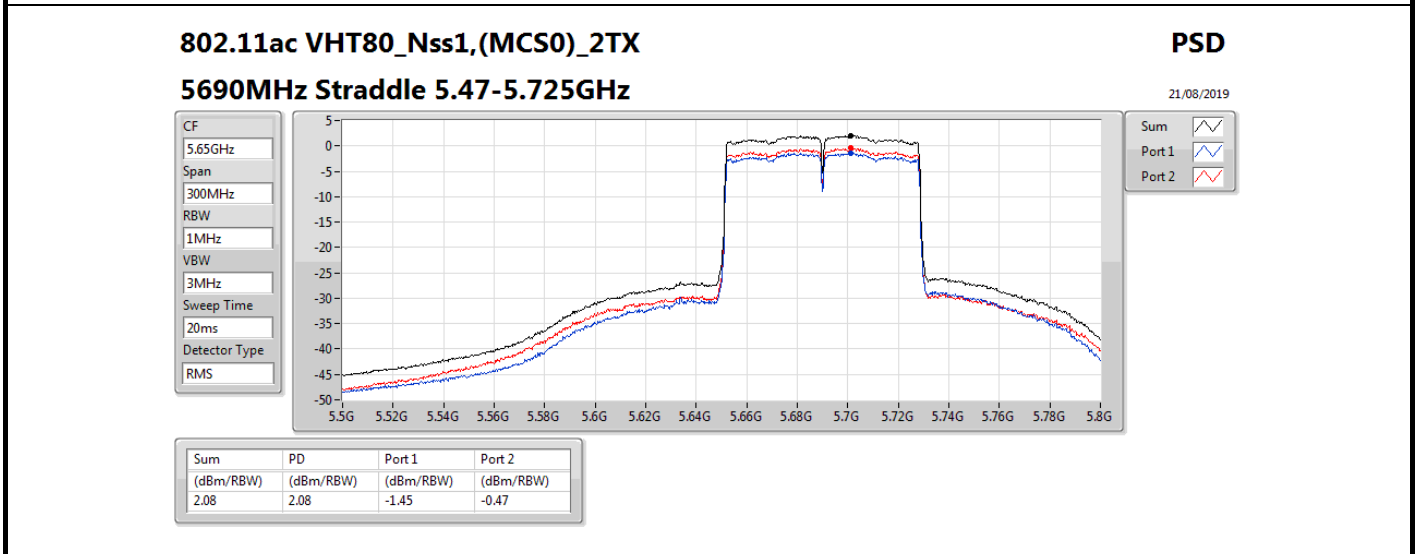
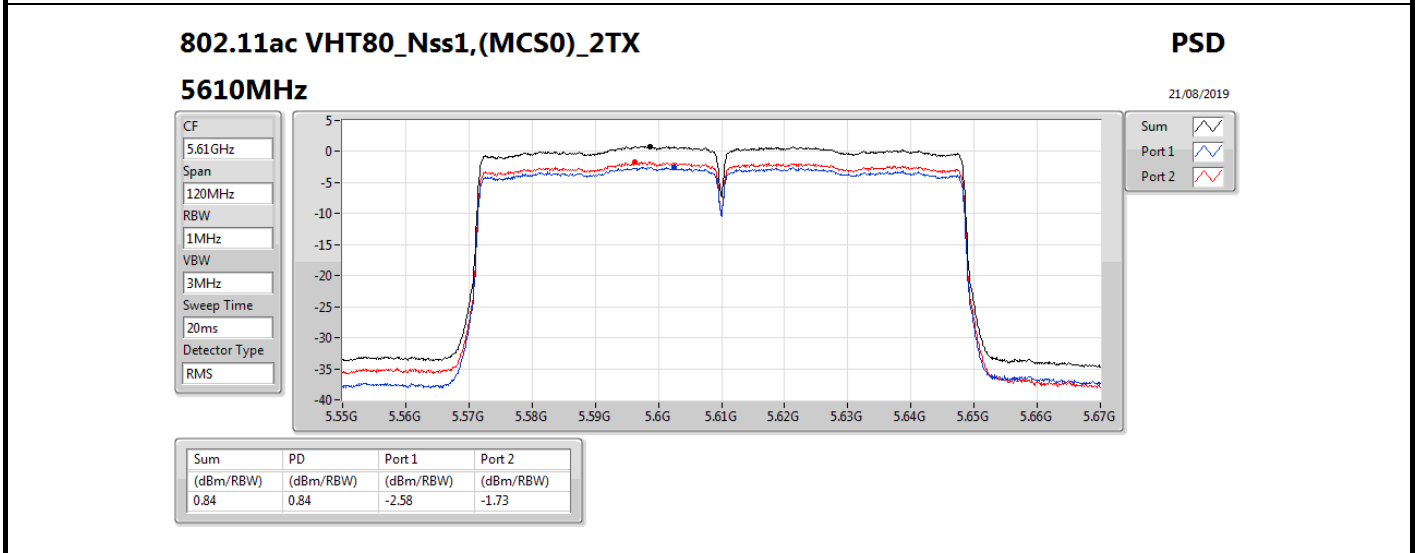
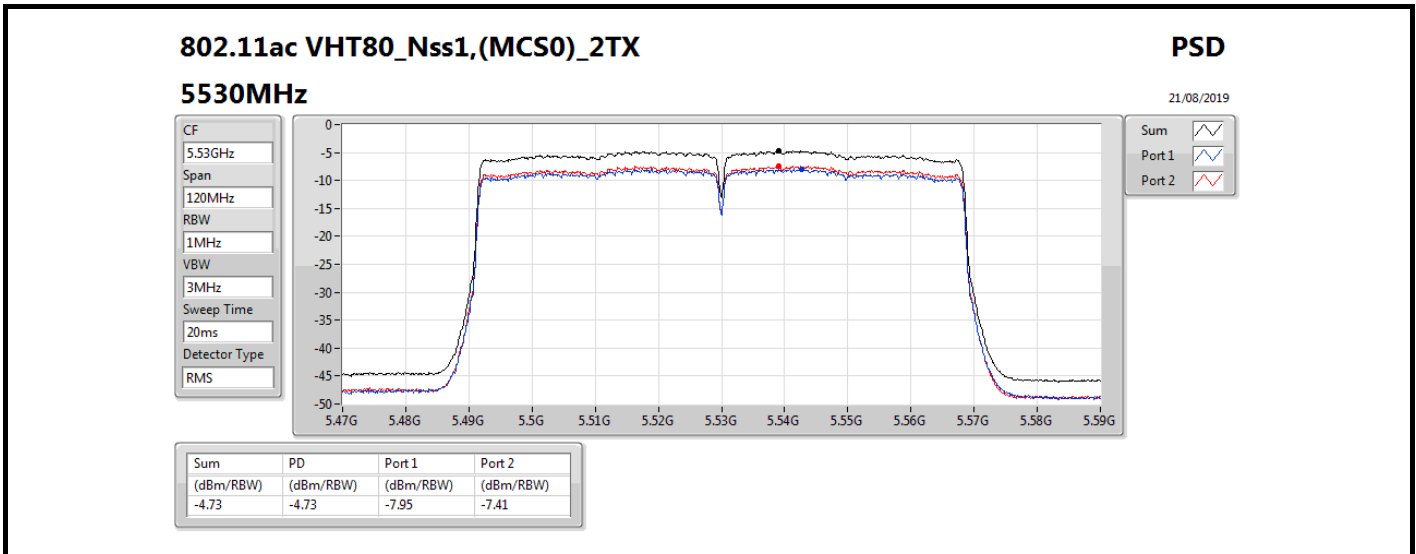


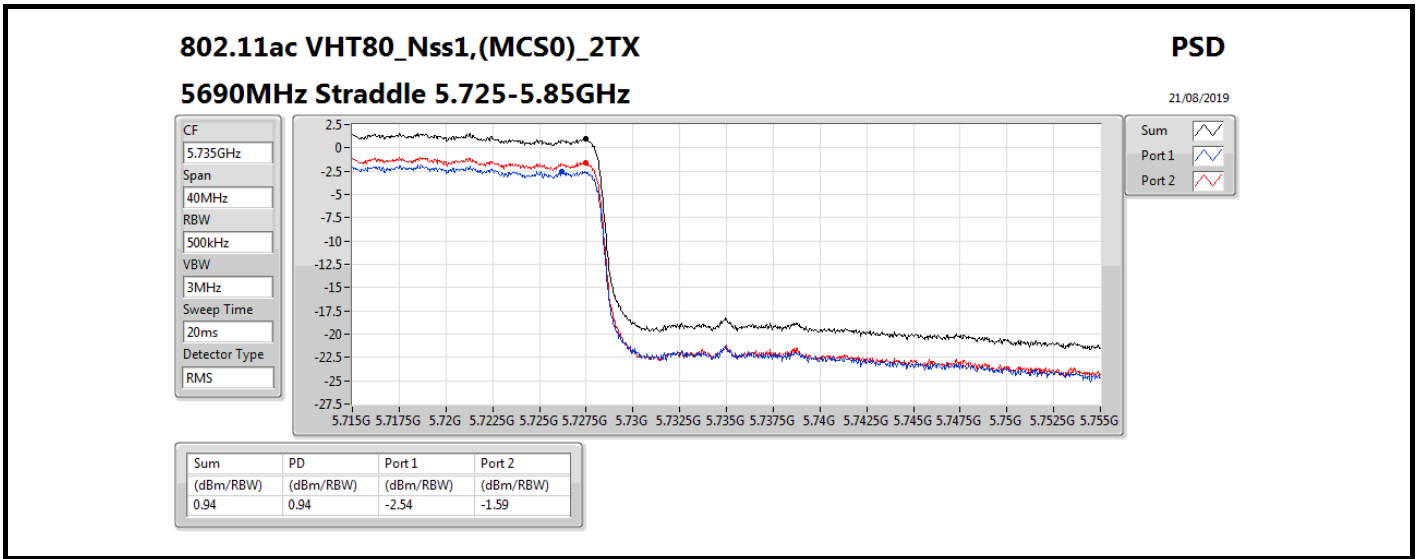














**Results for Radiated Emissions (1GHz~40GHz)**

<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 52 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15780.90	59.50	74.00	-14.50	43.12	12.57	37.76	33.95	174	353	Peak	HORIZONTAL
2	15781.41	46.26	54.00	-7.74	29.88	12.57	37.76	33.95	174	353	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15777.50	49.53	54.00	-4.47	33.15	12.57	37.76	33.95	178	336	Average	VERTICAL
2	15777.63	62.69	74.00	-11.31	46.31	12.57	37.76	33.95	178	336	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 60 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10600.10	46.93	54.00	-7.07	32.00	10.16	38.40	33.63	178	345	Average	HORIZONTAL
2	10600.13	61.87	74.00	-12.13	46.94	10.16	38.40	33.63	178	345	Peak	HORIZONTAL
3	15895.27	57.76	74.00	-16.24	41.67	12.57	37.57	34.05	178	300	Peak	HORIZONTAL
4	15901.03	44.51	54.00	-9.49	28.45	12.57	37.54	34.05	178	300	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10598.78	67.28	74.00	-6.72	52.35	10.16	38.40	33.63	196	287	Peak	VERTICAL
2	10599.42	50.95	54.00	-3.05	36.02	10.16	38.40	33.63	196	287	Average	VERTICAL
3	15896.78	58.57	74.00	-15.43	42.48	12.57	37.57	34.05	178	26	Peak	VERTICAL
4	15896.96	45.21	54.00	-8.79	29.12	12.57	37.57	34.05	178	26	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10640.22	60.57	74.00	-13.43	45.56	10.21	38.40	33.60	176	344	Peak	HORIZONTAL
2	10640.24	45.63	54.00	-8.37	30.62	10.21	38.40	33.60	176	344	Average	HORIZONTAL
3	15958.73	44.20	54.00	-9.80	28.31	12.56	37.46	34.13	176	299	Average	HORIZONTAL
4	15964.42	57.45	74.00	-16.55	41.56	12.56	37.46	34.13	176	299	Peak	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10638.91	65.75	74.00	-8.25	50.74	10.21	38.40	33.60	202	288	Peak	VERTICAL
2	10639.41	49.81	54.00	-4.19	34.80	10.21	38.40	33.60	202	288	Average	VERTICAL
3	15960.90	44.72	54.00	-9.28	28.83	12.56	37.46	34.13	179	26	Average	VERTICAL
4	15961.73	59.19	74.00	-14.81	43.30	12.56	37.46	34.13	179	26	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15777.76	60.30	74.00	-13.70	43.92	12.57	37.76	33.95	147	88	Peak	HORIZONTAL
2	15787.40	47.07	54.00	-6.93	30.72	12.57	37.73	33.95	147	88	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15776.76	49.10	54.00	-4.90	32.70	12.57	37.76	33.93	154	20	Average	VERTICAL
2	15781.16	61.50	74.00	-12.50	45.12	12.57	37.76	33.95	154	20	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10600.68	46.46	54.00	-7.54	31.53	10.16	38.40	33.63	146	288	Average	HORIZONTAL
2	10603.08	59.13	74.00	-14.87	44.16	10.19	38.40	33.62	146	288	Peak	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10598.28	63.32	74.00	-10.68	48.39	10.16	38.40	33.63	145	296	Peak	VERTICAL
2	10600.76	48.59	54.00	-5.41	33.62	10.19	38.40	33.62	145	296	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.00	57.05	74.00	-16.95	42.04	10.21	38.40	33.60	139	289	Peak	HORIZONTAL
2	10639.08	45.37	54.00	-8.63	30.36	10.21	38.40	33.60	139	289	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10635.68	62.47	74.00	-11.53	47.46	10.21	38.40	33.60	123	297	Peak	VERTICAL
2	10640.84	47.72	54.00	-6.28	32.71	10.21	38.40	33.60	123	297	Average	VERTICAL





<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 23, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15814.00	60.78	74.00	-13.22	44.49	12.57	37.70	33.98	128	299	Peak	HORIZONTAL
2	15817.32	47.15	54.00	-6.85	30.88	12.57	37.68	33.98	128	299	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15806.32	46.99	54.00	-7.01	30.70	12.57	37.70	33.98	122	299	Average	VERTICAL
2	15817.68	59.29	74.00	-14.71	43.02	12.57	37.68	33.98	122	299	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 23, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10614.48	55.67	74.00	-18.33	40.70	10.19	38.40	33.62	146	128	Peak	HORIZONTAL
2	10625.16	42.16	54.00	-11.84	27.19	10.19	38.40	33.62	146	128	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10627.76	43.12	54.00	-10.88	28.11	10.21	38.40	33.60	136	287	Average	VERTICAL
2	10629.64	55.58	74.00	-18.42	40.57	10.21	38.40	33.60	136	287	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 23, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15868.08	47.60	54.00	-6.40	31.47	12.57	37.59	34.03	128	254	Average	HORIZONTAL
2	15869.32	60.47	74.00	-13.53	44.34	12.57	37.59	34.03	128	254	Peak	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15870.36	60.21	74.00	-13.79	44.08	12.57	37.59	34.03	133	221	Peak	VERTICAL
2	15873.52	47.38	54.00	-6.62	31.25	12.57	37.59	34.03	133	221	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 52 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15780.34	59.17	74.00	-14.83	42.79	12.57	37.76	33.95	140	51	Peak	HORIZONTAL
2	15781.06	45.75	54.00	-8.25	29.37	12.57	37.76	33.95	140	51	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15777.10	46.62	54.00	-7.38	30.22	12.57	37.76	33.93	173	325	Average	VERTICAL
2	15777.40	59.70	74.00	-14.30	43.32	12.57	37.76	33.95	173	325	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 60 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10598.24	59.31	74.00	-14.69	44.38	10.16	38.40	33.63	157	53	Peak	HORIZONTAL
2	10599.21	45.61	54.00	-8.39	30.68	10.16	38.40	33.63	157	53	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10596.09	47.21	54.00	-6.79	32.28	10.16	38.40	33.63	167	282	Average	VERTICAL
2	10600.26	60.55	74.00	-13.45	45.62	10.16	38.40	33.63	167	282	Peak	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10635.51	57.88	74.00	-16.12	42.87	10.21	38.40	33.60	188	45	Peak	HORIZONTAL
2	10639.98	44.99	54.00	-9.01	29.98	10.21	38.40	33.60	188	45	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10640.40	61.01	74.00	-12.99	46.00	10.21	38.40	33.60	165	277	Peak	VERTICAL
2	10641.01	47.74	54.00	-6.26	32.73	10.21	38.40	33.60	165	277	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15779.95	56.84	74.00	-17.16	40.46	12.57	37.76	33.95	143	279	Peak	HORIZONTAL
2	15782.72	44.91	54.00	-9.09	28.56	12.57	37.73	33.95	143	279	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15778.33	58.99	74.00	-15.01	42.61	12.57	37.76	33.95	141	320	Peak	VERTICAL
2	15780.72	45.89	54.00	-8.11	29.51	12.57	37.76	33.95	141	320	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 60 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10596.04	57.93	74.00	-16.07	43.00	10.16	38.40	33.63	164	44	Peak	HORIZONTAL
2	10599.74	44.47	54.00	-9.53	29.54	10.16	38.40	33.63	164	44	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10599.89	59.39	74.00	-14.61	44.46	10.16	38.40	33.63	155	274	Peak	VERTICAL
2	10600.11	46.55	54.00	-7.45	31.62	10.16	38.40	33.63	155	274	Average	VERTICAL





<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.25	43.90	54.00	-10.10	28.89	10.21	38.40	33.60	139	283	Average	HORIZONTAL
2	10641.52	56.66	74.00	-17.34	41.65	10.21	38.40	33.60	139	283	Peak	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10639.57	59.58	74.00	-14.42	44.57	10.21	38.40	33.60	159	269	Peak	VERTICAL
2	10641.01	45.65	54.00	-8.35	30.64	10.21	38.40	33.60	159	269	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15806.07	58.30	74.00	-15.70	42.01	12.57	37.70	33.98	156	23	Peak	HORIZONTAL
2	15807.69	44.78	54.00	-9.22	28.49	12.57	37.70	33.98	156	23	Average	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15805.46	57.63	74.00	-16.37	41.34	12.57	37.70	33.98	161	164	Peak	VERTICAL
2	15806.06	44.58	54.00	-9.42	28.29	12.57	37.70	33.98	161	164	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT40 CH 62 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10621.20	42.56	54.00	-11.44	27.59	10.19	38.40	33.62	147	150	Average	HORIZONTAL
2	10624.74	55.07	74.00	-18.93	40.10	10.19	38.40	33.62	147	150	Peak	HORIZONTAL

**Vertical**

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	10621.75	55.67	74.00	-18.33	40.70	10.19	38.40	33.62	172	287	Peak	VERTICAL
2	10624.44	43.00	54.00	-11.00	28.03	10.19	38.40	33.62	172	287	Average	VERTICAL



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Horizontal**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15868.45	44.53	54.00	-9.47	28.40	12.57	37.59	34.03	157	103	Average	HORIZONTAL
2	15868.69	57.43	74.00	-16.57	41.30	12.57	37.59	34.03	157	103	Peak	HORIZONTAL

**Vertical**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	15865.32	57.97	74.00	-16.03	41.81	12.57	37.62	34.03	139	231	Peak	VERTICAL
2	15874.04	44.48	54.00	-9.52	28.35	12.57	37.59	34.03	139	231	Average	VERTICAL

**Note:**

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.



**Test Result of Band Edge and Fundamental Emissions**

<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 24, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Channel 52**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5113.60	45.99	54.00	-8.01	39.21	6.14	33.69	33.05	169	309	Average	VERTICAL
2	5123.80	58.92	74.00	-15.08	52.09	6.17	33.71	33.05	169	309	Peak	VERTICAL
3	5264.80	119.33	74.00			6.34	33.93	33.06	169	309	Peak	VERTICAL
4	5265.40	108.73	54.00			6.34	33.93	33.06	169	309	Average	VERTICAL
5	5350.00	48.04	54.00	-5.96	40.57	6.47	34.06	33.06	169	309	Average	VERTICAL
6	5366.20	60.52	74.00	-13.48	53.02	6.47	34.09	33.06	169	309	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz

**Channel 60**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5295.19	105.01	54.00			6.37	33.98	33.06	169	301	Average	VERTICAL
2	5295.83	115.53	74.00			6.37	33.98	33.06	169	301	Peak	VERTICAL
3	5350.00	50.20	54.00	-3.80	42.73	6.47	34.06	33.06	169	301	Average	VERTICAL
4	5354.81	64.46	74.00	-9.54	56.99	6.47	34.06	33.06	169	301	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

**Channel 64**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5315.60	113.96	74.00			6.40	34.01	33.06	157	304	Peak	VERTICAL
2	5325.40	103.09	54.00			6.43	34.01	33.06	157	304	Average	VERTICAL
3	5350.20	52.96	54.00	-1.04	45.49	6.47	34.06	33.06	157	304	Average	VERTICAL
4	5350.40	67.96	74.00	-6.04	60.49	6.47	34.06	33.06	157	304	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 23, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Channel 52**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5117.20	47.89	54.00	-6.11	41.11	6.14	33.69	33.05	170	306	Average	VERTICAL
2	5136.40	61.32	74.00	-12.68	54.49	6.17	33.71	33.05	170	306	Peak	VERTICAL
3	5257.60	109.81	54.00			6.34	33.90	33.06	170	306	Average	VERTICAL
4	5257.60	121.17	74.00			6.34	33.90	33.06	170	306	Peak	VERTICAL
5	5350.00	50.28	54.00	-3.72	42.81	6.47	34.06	33.06	170	306	Average	VERTICAL
6	5354.20	63.79	74.00	-10.21	56.32	6.47	34.06	33.06	170	306	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

**Channel 60**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5295.20	105.39	54.00			6.37	33.98	33.06	178	309	Average	VERTICAL
2	5297.60	116.67	74.00			6.40	33.98	33.06	178	309	Peak	VERTICAL
3	5350.00	52.78	54.00	-1.22	45.31	6.47	34.06	33.06	178	309	Average	VERTICAL
4	5356.80	65.51	74.00	-8.49	58.04	6.47	34.06	33.06	178	309	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

**Channel 64**

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5315.20	103.33	54.00			6.40	34.01	33.06	166	277	Average	VERTICAL
2	5326.00	114.64	74.00			6.43	34.01	33.06	166	277	Peak	VERTICAL
3	5350.00	52.90	54.00	-1.10	45.43	6.47	34.06	33.06	166	277	Average	VERTICAL
4	5350.80	67.10	74.00	-6.90	59.63	6.47	34.06	33.06	166	277	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 23, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Channel 54**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5262.40	102.57	54.00			6.34	33.93	33.06	144	304	Average	VERTICAL
2	5264.80	112.00	74.00			6.34	33.93	33.06	144	304	Peak	VERTICAL
3	5350.00	52.94	54.00	-1.06	45.47	6.47	34.06	33.06	144	304	Average	VERTICAL
4	5350.40	64.83	74.00	-9.17	57.36	6.47	34.06	33.06	144	304	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

**Channel 62**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5307.60	98.73	54.00			6.40	33.98	33.06	119	306	Average	VERTICAL
2	5312.40	108.83	74.00			6.40	34.01	33.06	119	306	Peak	VERTICAL
3	5352.80	52.66	54.00	-1.34	45.19	6.47	34.06	33.06	119	306	Average	VERTICAL
4	5354.40	65.64	74.00	-8.36	58.17	6.47	34.06	33.06	119	306	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 23, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 1 (PIFA antenna)		

**Channel 58**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5145.77	58.71	74.00	-15.29	51.81	6.21	33.74	33.05	164	308	Peak	VERTICAL
2	5150.00	47.65	54.00	-6.35	40.75	6.21	33.74	33.05	164	308	Average	VERTICAL
3	5297.21	105.86	74.00			6.40	33.98	33.06	164	308	Peak	VERTICAL
4	5302.82	95.83	54.00			6.40	33.98	33.06	164	308	Average	VERTICAL
5	5350.00	52.99	54.00	-1.01	45.52	6.47	34.06	33.06	164	308	Average	VERTICAL
6	5350.00	65.73	74.00	-8.27	58.26	6.47	34.06	33.06	164	308	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.





<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11a CH 52, 60, 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Channel 52**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5146.54	58.37	74.00	-15.63	51.47	6.21	33.74	33.05	256	312	Peak	VERTICAL
2	5150.00	46.50	54.00	-7.50	39.60	6.21	33.74	33.05	256	312	Average	VERTICAL
3	5265.29	107.32	54.00			6.34	33.93	33.06	256	312	Average	VERTICAL
4	5265.29	118.33	74.00			6.34	33.93	33.06	256	312	Peak	VERTICAL
5	5350.00	46.60	54.00	-7.40	39.13	6.47	34.06	33.06	256	312	Average	VERTICAL
6	5351.35	60.01	74.00	-13.99	52.54	6.47	34.06	33.06	256	312	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

**Channel 60**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5296.15	114.79	74.00			6.37	33.98	33.06	255	302	Peak	VERTICAL
2	5305.45	103.92	54.00			6.40	33.98	33.06	255	302	Average	VERTICAL
3	5350.00	49.15	54.00	-4.85	41.68	6.47	34.06	33.06	255	302	Average	VERTICAL
4	5353.53	61.71	74.00	-12.29	54.24	6.47	34.06	33.06	255	302	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

**Channel 64**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5315.03	114.37	74.00			6.40	34.01	33.06	266	306	Peak	VERTICAL
2	5315.19	103.16	54.00			6.40	34.01	33.06	266	306	Average	VERTICAL
3	5350.29	51.52	54.00	-2.48	44.05	6.47	34.06	33.06	266	306	Average	VERTICAL
4	5350.29	67.22	74.00	-6.78	59.75	6.47	34.06	33.06	266	306	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT20 CH 52, 60, 64 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Channel 52**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5147.50	46.50	54.00	-7.50	39.60	6.21	33.74	33.05	261	307	Average	VERTICAL
2	5150.00	58.77	74.00	-15.23	51.87	6.21	33.74	33.05	261	307	Peak	VERTICAL
3	5262.89	117.82	74.00			6.34	33.93	33.06	261	307	Peak	VERTICAL
4	5265.29	106.95	54.00			6.34	33.93	33.06	261	307	Average	VERTICAL
5	5350.39	46.67	54.00	-7.33	39.20	6.47	34.06	33.06	261	307	Average	VERTICAL
6	5371.06	59.33	74.00	-14.67	51.83	6.47	34.09	33.06	261	307	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5260 MHz.

**Channel 60**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5302.56	114.17	74.00			6.40	33.98	33.06	252	307	Peak	VERTICAL
2	5305.13	103.31	54.00			6.40	33.98	33.06	252	307	Average	VERTICAL
3	5350.00	49.45	54.00	-4.55	41.98	6.47	34.06	33.06	252	307	Average	VERTICAL
4	5351.92	61.90	74.00	-12.10	54.43	6.47	34.06	33.06	252	307	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5300 MHz.

**Channel 64**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5315.19	102.06	54.00			6.40	34.01	33.06	224	309	Average	VERTICAL
2	5315.35	112.81	74.00			6.40	34.01	33.06	224	309	Peak	VERTICAL
3	5350.00	51.82	54.00	-2.18	44.35	6.47	34.06	33.06	224	309	Average	VERTICAL
4	5350.13	67.00	74.00	-7.00	59.53	6.47	34.06	33.06	224	309	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5320 MHz.



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Channel 54**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5265.19	102.21	54.00			6.34	33.93	33.06	214	308	Average	VERTICAL
2	5267.44	111.79	74.00			6.34	33.93	33.06	214	308	Peak	VERTICAL
3	5350.00	51.03	54.00	-2.97	43.56	6.47	34.06	33.06	214	308	Average	VERTICAL
4	5354.30	62.17	74.00	-11.83	54.70	6.47	34.06	33.06	214	308	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5270 MHz.

**Channel 62**

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5294.94	107.13	74.00			6.37	33.98	33.06	267	309	Peak	VERTICAL
2	5315.13	97.76	54.00			6.40	34.01	33.06	267	309	Average	VERTICAL
3	5354.87	51.65	54.00	-2.35	44.18	6.47	34.06	33.06	267	309	Average	VERTICAL
4	5359.36	64.21	74.00	-9.79	56.74	6.47	34.06	33.06	267	309	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 5310 MHz.



<b>Temperature</b>	24°C	<b>Humidity</b>	61%
<b>Test Engineer</b>	Kenneth Huang	<b>Configurations</b>	IEEE 802.11ac MCS0/Nss1 VHT80 CH 58 / Chain 1 + Chain 2
<b>Test Date</b>	Aug. 28, 2015	<b>Test Function</b>	Non-beamforming function
<b>Test Mode</b>	Mode 2 (Dipole antenna)		

**Channel 58**

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	5133.75	59.75	74.00	-14.25	52.92	6.17	33.71	33.05	220	309	Peak	VERTICAL
2	5144.97	48.44	54.00	-5.56	41.54	6.21	33.74	33.05	220	309	Average	VERTICAL
3	5277.98	95.51	54.00			6.37	33.95	33.06	220	309	Average	VERTICAL
4	5285.19	105.24	74.00			6.37	33.95	33.06	220	309	Peak	VERTICAL
5	5350.00	51.24	54.00	-2.76	43.77	6.47	34.06	33.06	220	309	Average	VERTICAL
6	5353.30	64.03	74.00	-9.97	56.56	6.47	34.06	33.06	220	309	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 5290 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level



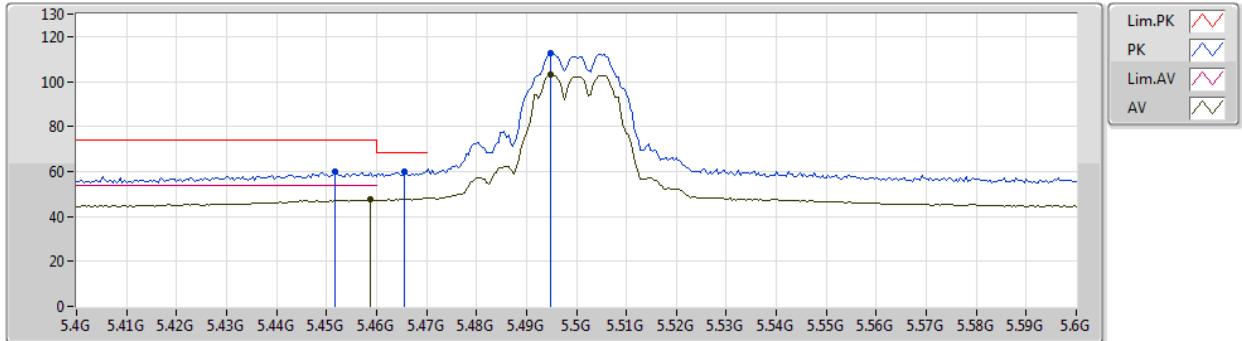
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.46G	52.92	54.00	-1.08	5.02	3	Vertical	71	2.29	-

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5500MHz\_TX



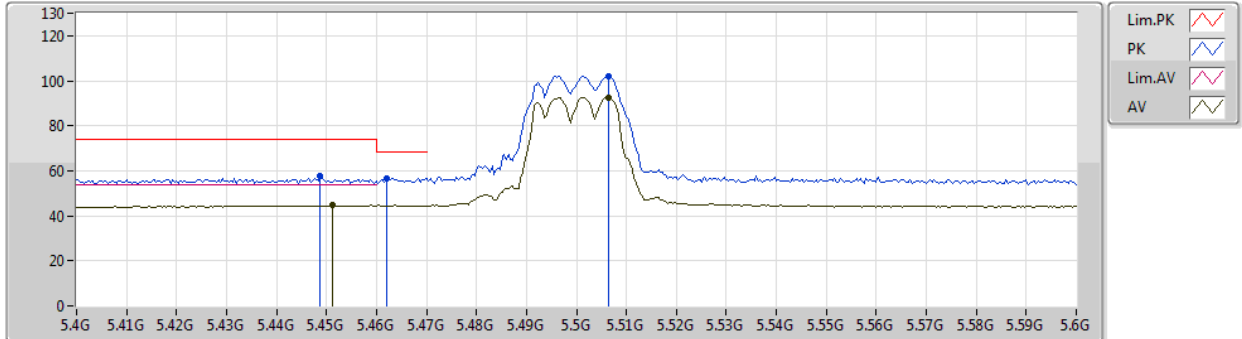
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 Setting 56  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4516G	60.11	74.00	-13.89	4.99	3	Vertical	76	1.01	-	55.12
AV	5.4588G	47.38	54.00	-6.62	5.02	3	Vertical	76	1.01	-	42.36
PK	5.4656G	60.02	68.20	-8.18	5.03	3	Vertical	76	1.01	-	54.99
PK	5.4948G	112.76	Inf	-Inf	5.09	3	Vertical	76	1.01	-	107.67
AV	5.4948G	103.04	Inf	-Inf	5.09	3	Vertical	76	1.01	-	97.95

802.11a\_Nss1,(6Mbps)\_2TX

5500MHz\_TX

17/08/2019



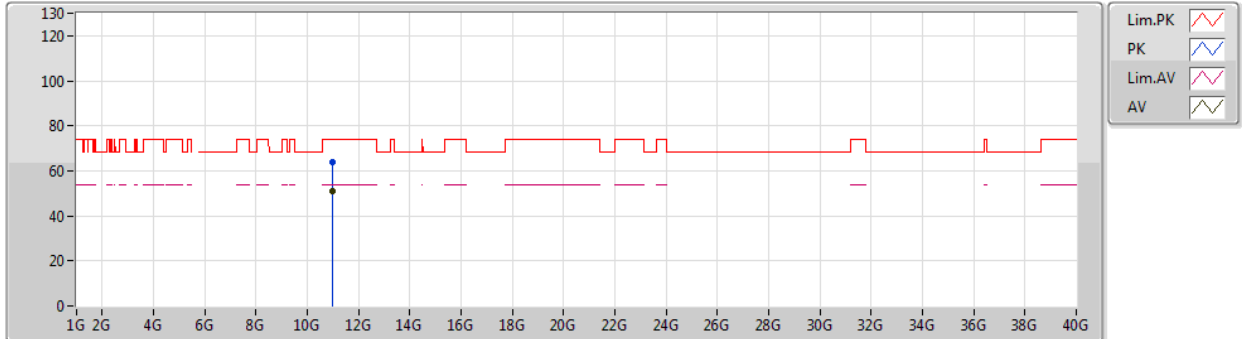
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 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4488G	57.80	74.00	-16.20	5.00	3	Horizontal	359	2.98	-	52.80
AV	5.4512G	44.63	54.00	-9.37	4.99	3	Horizontal	359	2.98	-	39.64
PK	5.462G	56.74	68.20	-11.46	5.02	3	Horizontal	359	2.98	-	51.72
PK	5.5064G	102.13	Inf	-Inf	5.09	3	Horizontal	359	2.98	-	97.04
AV	5.5064G	92.70	Inf	-Inf	5.09	3	Horizontal	359	2.98	-	87.61

802.11a\_Nss1,(6Mbps)\_2TX

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5500MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 56  
 06-B-4  
 FSP(100142)  
 R1

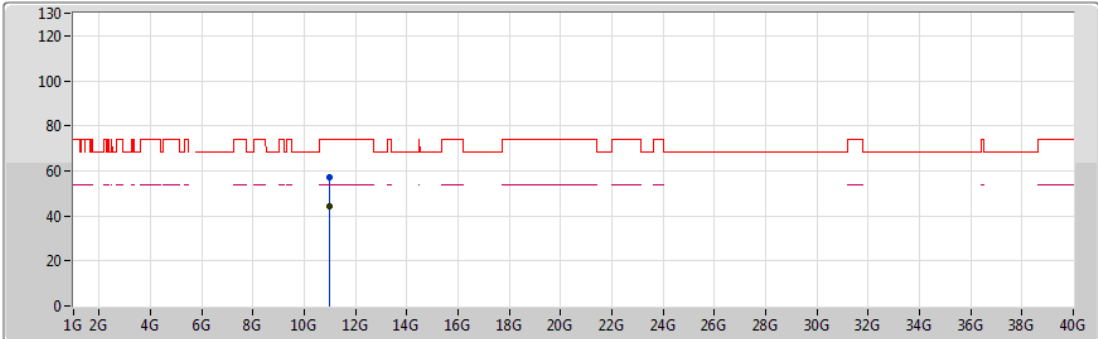
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PK	11.00088G	64.00	74.00	-10.00	14.16	3	Vertical	68	2.17	-	49.84
AV	10.99624G	50.86	54.00	-3.14	14.16	3	Vertical	68	2.17	-	36.70







### 802.11a\_Nss1,(6Mbps)\_2TX

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### 5500MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

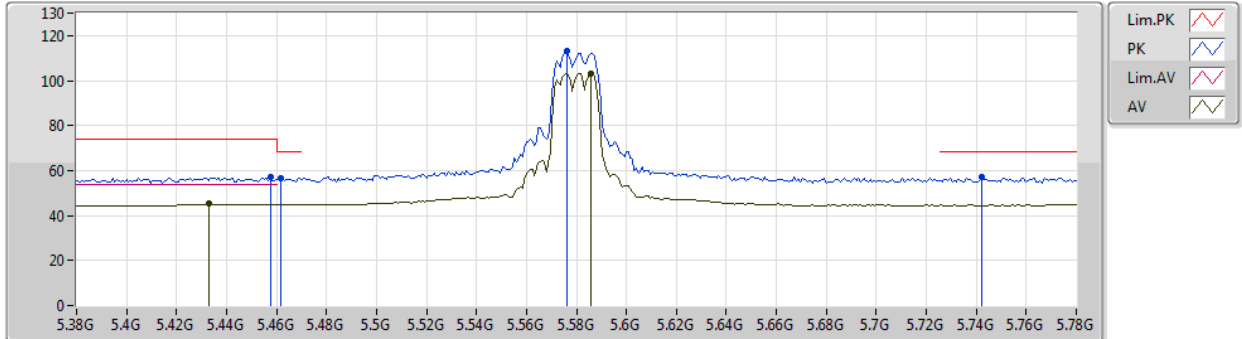
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 FSP(100142)  
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.00008G	57.29	74.00	-16.71	14.16	3	Horizontal	51	1.01	-	43.13
AV	11.00032G	44.27	54.00	-9.73	14.16	3	Horizontal	51	1.01	-	30.11

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5580MHz\_TX



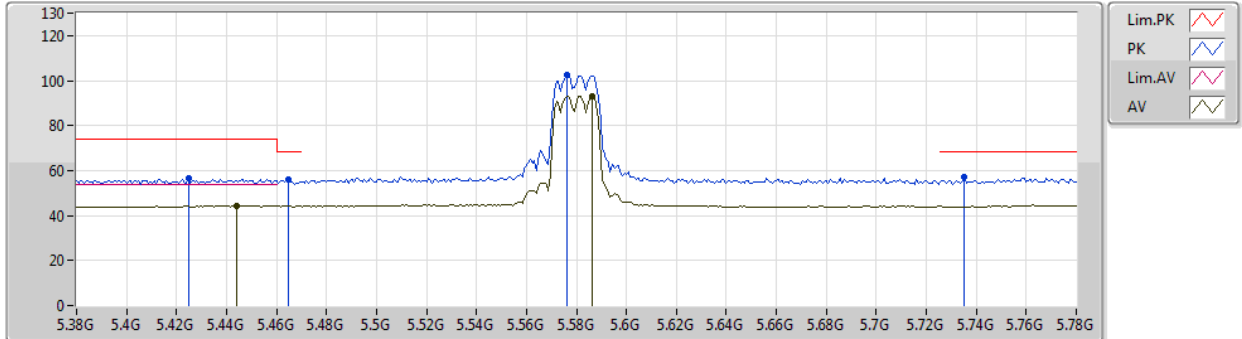
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4576G	57.13	74.00	-16.87	5.01	3	Vertical	73	2.34	-	52.12
AV	5.4328G	45.20	54.00	-8.80	4.96	3	Vertical	73	2.34	-	40.24
PK	5.4616G	56.69	68.20	-11.51	5.02	3	Vertical	73	2.34	-	51.67
PK	5.576G	112.94	Inf	-Inf	4.96	3	Vertical	73	2.34	-	107.98
AV	5.5856G	103.29	Inf	-Inf	4.94	3	Vertical	73	2.34	-	98.35
PK	5.7424G	57.01	68.20	-11.19	5.23	3	Vertical	73	2.34	-	51.78

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5580MHz\_TX



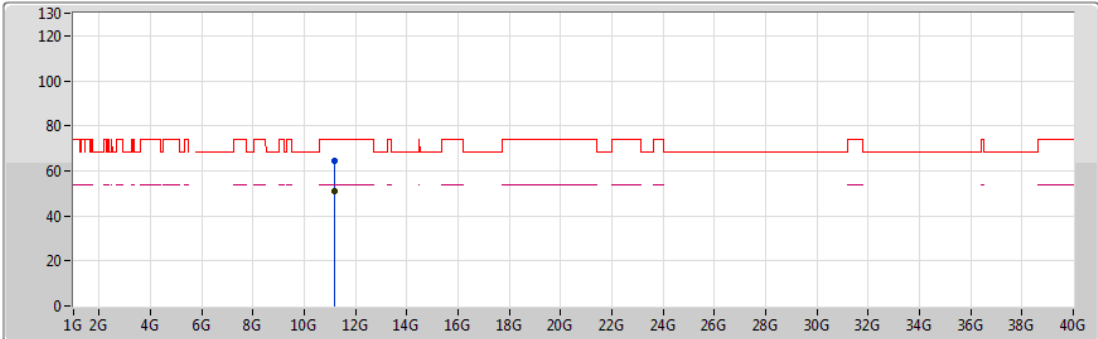
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 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4248G	56.66	74.00	-17.34	4.94	3	Horizontal	1	2.87	-	51.72
AV	5.444G	44.38	54.00	-9.62	4.99	3	Horizontal	1	2.87	-	39.39
PK	5.4648G	55.76	68.20	-12.44	5.03	3	Horizontal	1	2.87	-	50.73
PK	5.576G	102.48	Inf	-Inf	4.96	3	Horizontal	1	2.87	-	97.52
AV	5.5864G	93.15	Inf	-Inf	4.94	3	Horizontal	1	2.87	-	88.21
PK	5.7352G	56.99	68.20	-11.21	5.20	3	Horizontal	1	2.87	-	51.79

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5580MHz\_TX



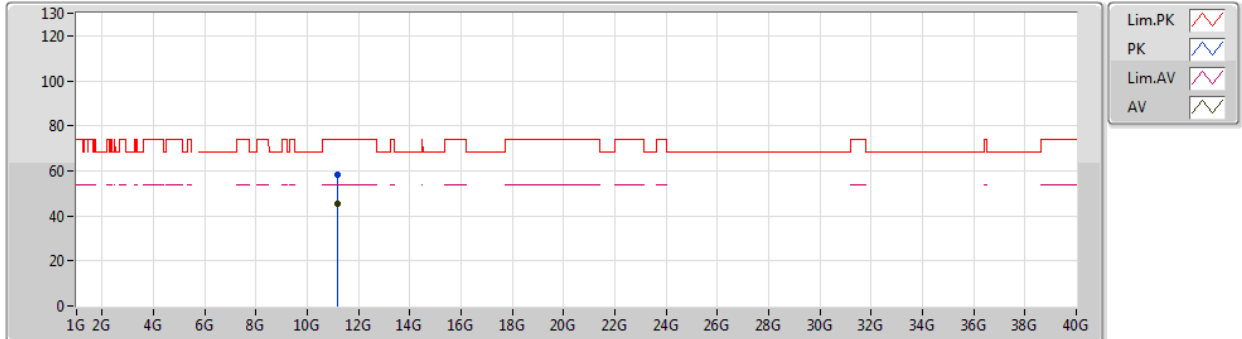
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 Setting 54  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.16048G	64.32	74.00	-9.68	13.88	3	Vertical	69	2.13	-	50.44
AV	11.156G	50.99	54.00	-3.01	13.89	3	Vertical	69	2.13	-	37.10

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5580MHz\_TX



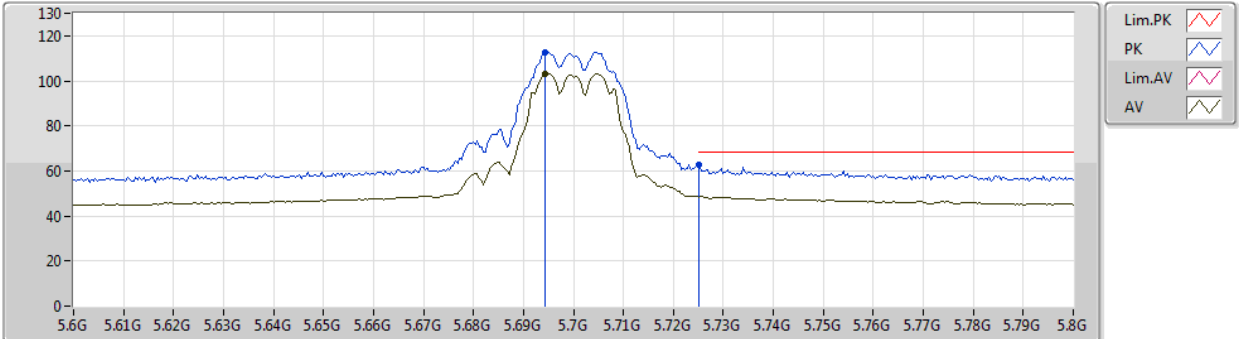
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 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.1612G	58.45	74.00	-15.55	13.88	3	Horizontal	35	1.98	-	44.57
AV	11.16192G	45.48	54.00	-8.52	13.88	3	Horizontal	35	1.98	-	31.60

802.11a\_Nss1,(6Mbps)\_2TX

5700MHz\_TX

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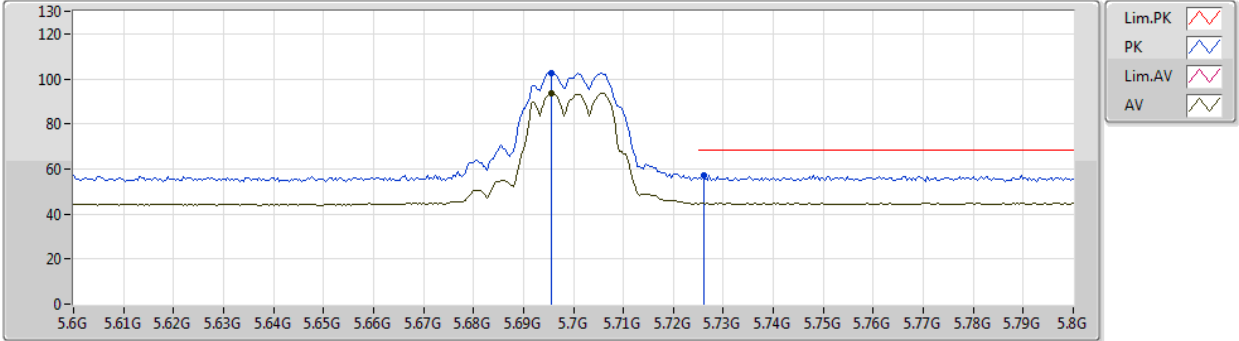
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 Setting 60  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6944G	112.84	Inf	-Inf	5.04	3	Vertical	76	1.01	-	107.80
AV	5.6944G	103.23	Inf	-Inf	5.04	3	Vertical	76	1.01	-	98.19
PK	5.7252G	62.75	68.20	-5.45	5.16	3	Vertical	76	1.01	-	57.59

802.11a\_Nss1,(6Mbps)\_2TX

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5700MHz\_TX



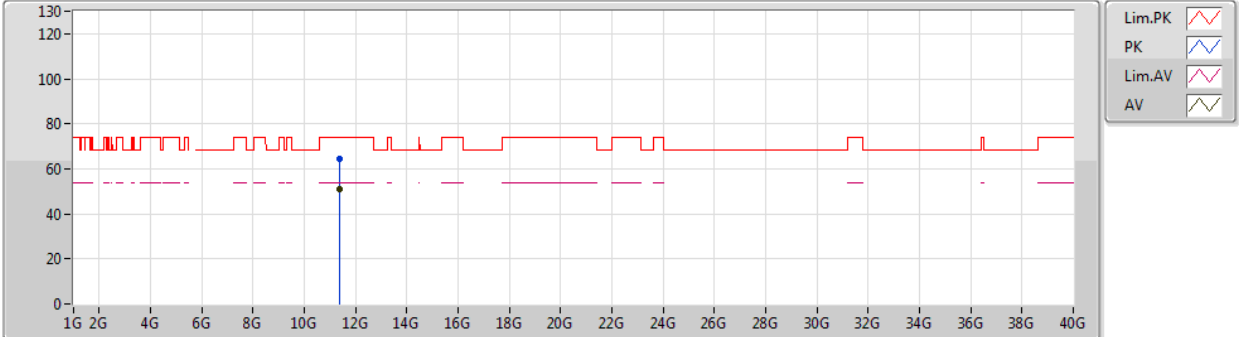
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 Setting 60  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6956G	102.78	Inf	-Inf	5.05	3	Horizontal	31	1.00	-	97.73
AV	5.6956G	93.55	Inf	-Inf	5.05	3	Horizontal	31	1.00	-	88.50
PK	5.726G	57.42	68.20	-10.78	5.16	3	Horizontal	31	1.00	-	52.26

### 802.11a\_Nss1,(6Mbps)\_2TX

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### 5700MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 60  
 06-B-4  
 FSP(100142)  
 R1

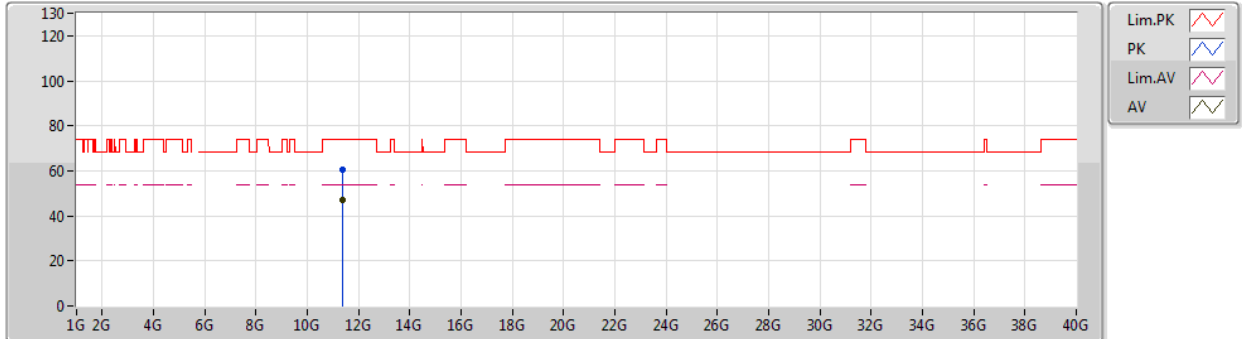
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PK	11.40048G	64.56	74.00	-9.44	13.46	3	Vertical	69	2.16	-	51.10
AV	11.40072G	50.79	54.00	-3.21	13.46	3	Vertical	69	2.16	-	37.33



### 802.11a\_Nss1,(6Mbps)\_2TX

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### 5700MHz\_TX



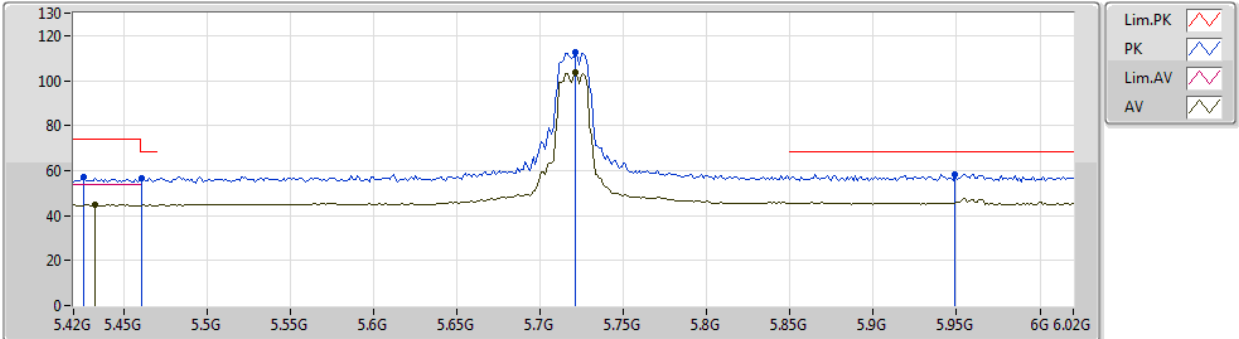
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 Setting 60  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.40032G	60.34	74.00	-13.66	13.46	3	Horizontal	12	2.23	-	46.88
AV	11.40032G	47.04	54.00	-6.96	13.46	3	Horizontal	12	2.23	-	33.58

802.11a\_Nss1,(6Mbps)\_2TX

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5720MHz Straddle 5.47-5.725GHz\_TX



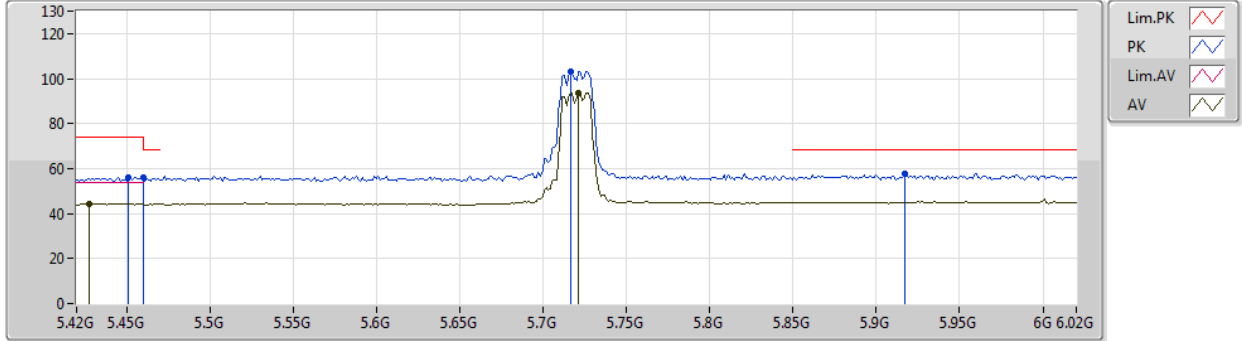
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 Setting 61  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.426G	57.17	74.00	-16.83	4.95	3	Vertical	72	2.32	-	52.22
AV	5.4332G	45.00	54.00	-9.00	4.96	3	Vertical	72	2.32	-	40.04
PK	5.4608G	56.73	68.20	-11.47	5.02	3	Vertical	72	2.32	-	51.71
PK	5.7212G	112.65	Inf	-Inf	5.14	3	Vertical	72	2.32	-	107.51
AV	5.7212G	103.45	Inf	-Inf	5.14	3	Vertical	72	2.32	-	98.31
PK	5.9492G	58.51	68.20	-9.69	5.79	3	Vertical	72	2.32	-	52.72

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



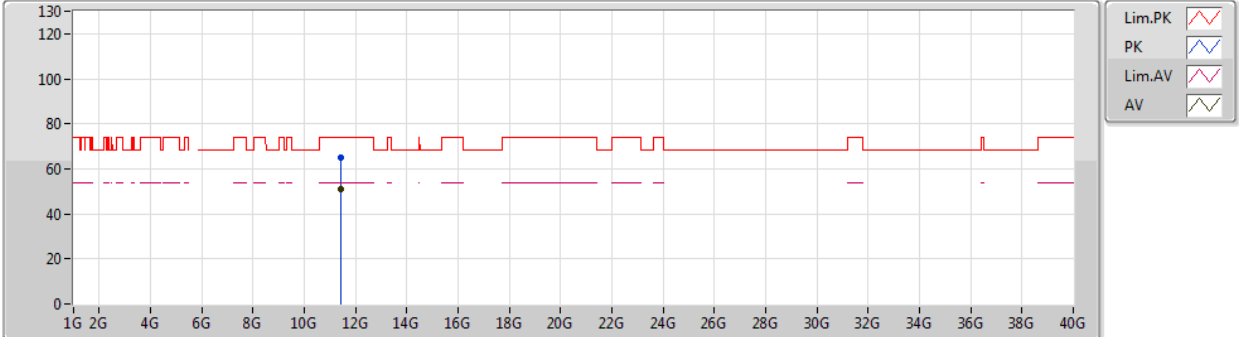
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4512G	56.20	74.00	-17.80	4.99	3	Horizontal	50	1.02	-	51.21
AV	5.4272G	44.29	54.00	-9.71	4.95	3	Horizontal	50	1.02	-	39.34
PK	5.46G	55.87	68.20	-12.33	5.02	3	Horizontal	50	1.02	-	50.85
PK	5.7164G	103.20	Inf	-Inf	5.12	3	Horizontal	50	1.02	-	98.08
AV	5.7212G	93.83	Inf	-Inf	5.14	3	Horizontal	50	1.02	-	88.69
PK	5.9168G	57.58	68.20	-10.62	5.79	3	Horizontal	50	1.02	-	51.79

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



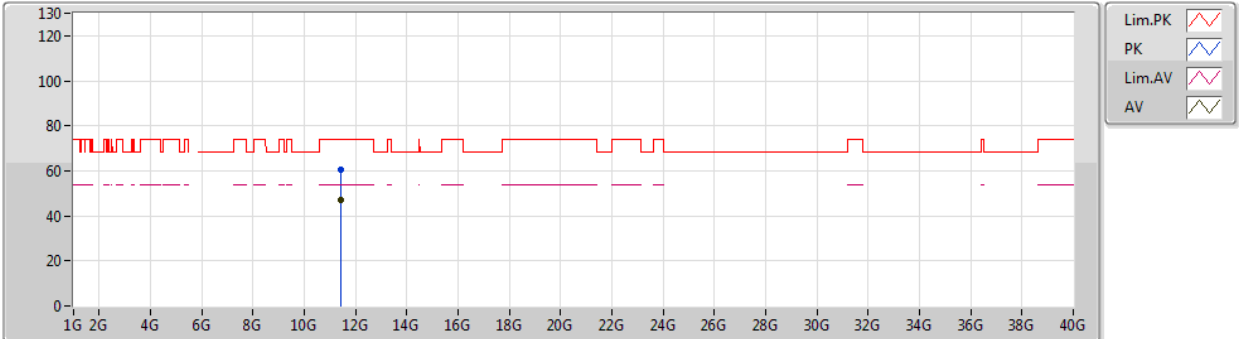
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.44072G	64.96	74.00	-9.04	13.39	3	Vertical	69	2.13	-	51.57
AV	11.44072G	50.80	54.00	-3.20	13.39	3	Vertical	69	2.13	-	37.41

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



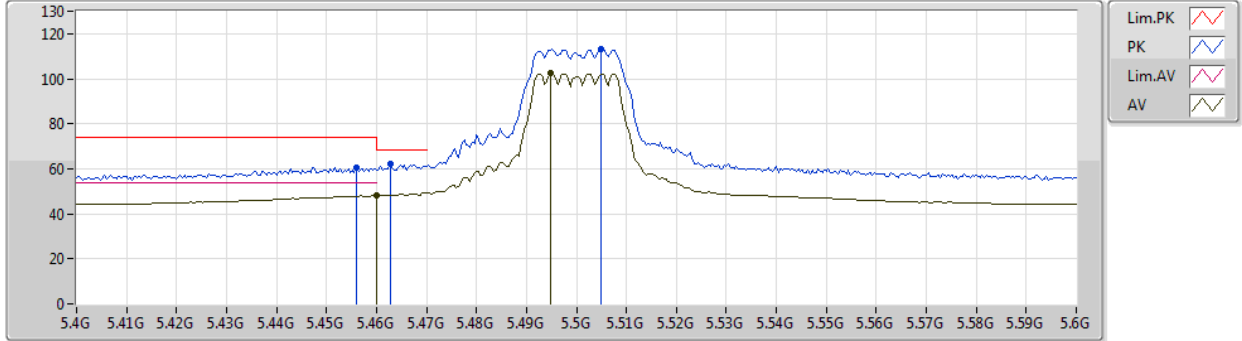
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.4404G	60.53	74.00	-13.47	13.39	3	Horizontal	14	1.99	-	47.14
AV	11.44064G	46.95	54.00	-7.05	13.39	3	Horizontal	14	1.99	-	33.56

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5500MHz\_TX



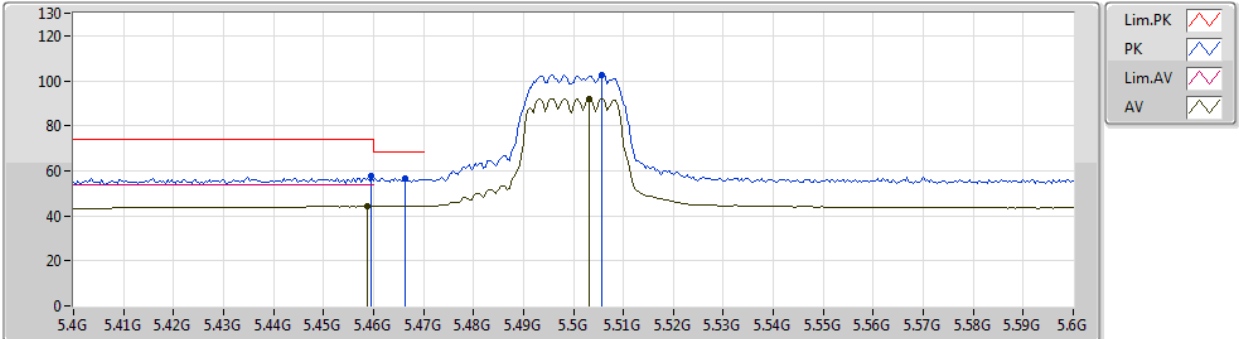
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.456G	60.61	74.00	-13.39	5.00	3	Vertical	76	1.01	-	55.61
AV	5.46G	48.12	54.00	-5.88	5.02	3	Vertical	76	1.01	-	43.10
PK	5.4628G	62.17	68.20	-6.03	5.03	3	Vertical	76	1.01	-	57.14
PK	5.5048G	113.14	Inf	-Inf	5.09	3	Vertical	76	1.01	-	108.05
AV	5.4948G	102.35	Inf	-Inf	5.09	3	Vertical	76	1.01	-	97.26

802.11ac VHT20\_Nss1,(MCS0)\_2TX

5500MHz\_TX

17/08/2019



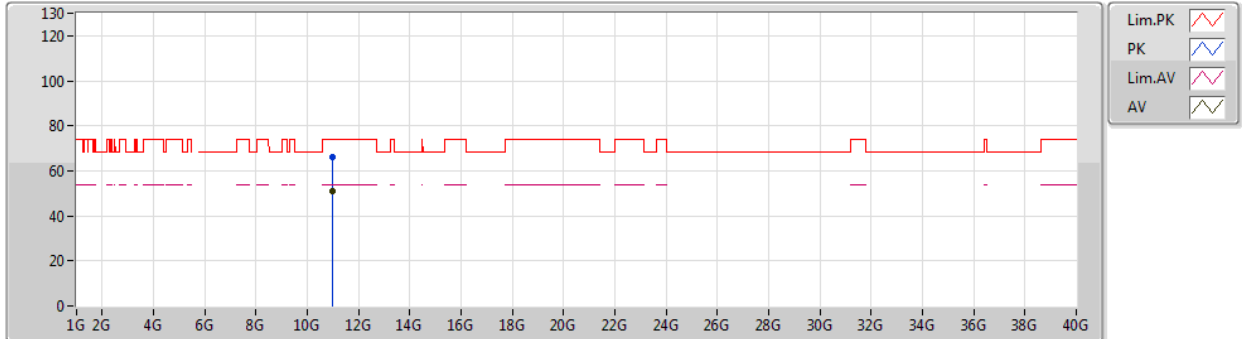
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4596G	57.84	74.00	-16.16	5.02	3	Horizontal	1	2.99	-	52.82
AV	5.4588G	44.18	54.00	-9.82	5.02	3	Horizontal	1	2.99	-	39.16
PK	5.4664G	56.74	68.20	-11.46	5.03	3	Horizontal	1	2.99	-	51.71
PK	5.5056G	102.72	Inf	-Inf	5.09	3	Horizontal	1	2.99	-	97.63
AV	5.5032G	91.96	Inf	-Inf	5.09	3	Horizontal	1	2.99	-	86.87

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5500MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4  
 FSP(100142)  
 R1

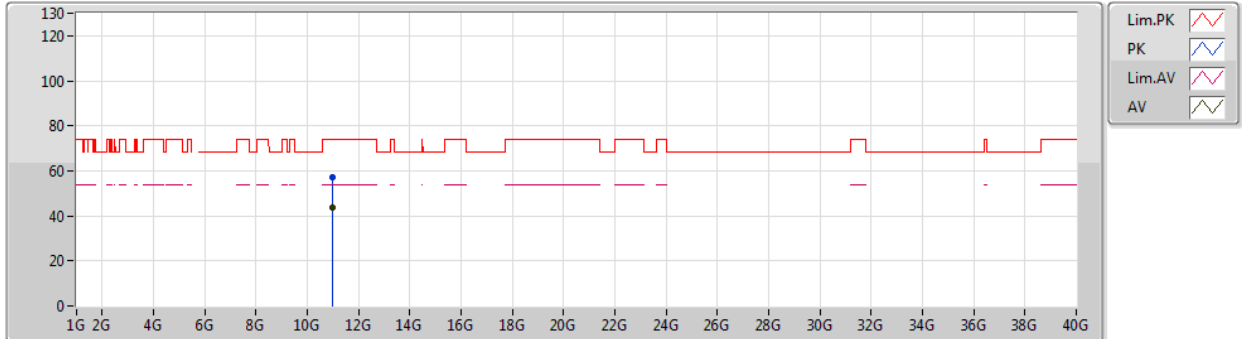
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.00584G	66.39	74.00	-7.61	14.15	3	Vertical	67	2.13	-	52.24
AV	11.0008G	50.78	54.00	-3.22	14.16	3	Vertical	67	2.13	-	36.62



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

### 5500MHz\_TX



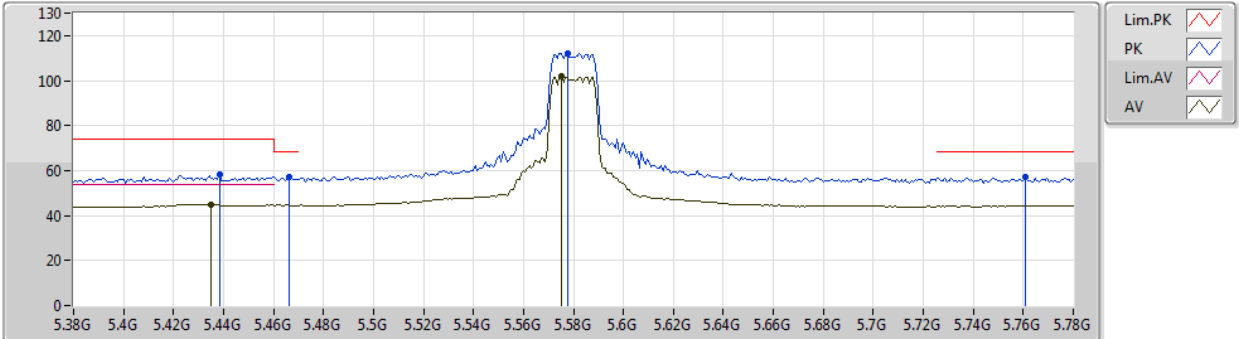
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	10.98816G	57.30	74.00	-16.70	14.14	3	Horizontal	87	2.93	-	43.16
AV	10.99944G	43.56	54.00	-10.44	14.16	3	Horizontal	87	2.93	-	29.40

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5580MHz\_TX



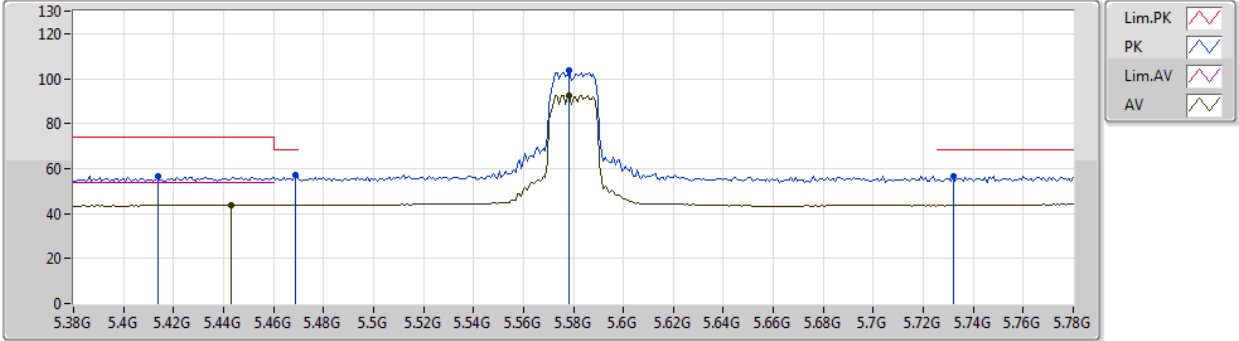
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 58  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4384G	58.13	74.00	-15.87	4.97	3	Vertical	78	1.01	-	53.16
AV	5.4352G	44.94	54.00	-9.06	4.96	3	Vertical	78	1.01	-	39.98
PK	5.4664G	57.20	68.20	-11.00	5.03	3	Vertical	78	1.01	-	52.17
PK	5.5776G	112.34	Inf	-Inf	4.95	3	Vertical	78	1.01	-	107.39
AV	5.5752G	101.81	Inf	-Inf	4.96	3	Vertical	78	1.01	-	96.85
PK	5.7608G	57.36	68.20	-10.84	5.31	3	Vertical	78	1.01	-	52.05

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5580MHz\_TX



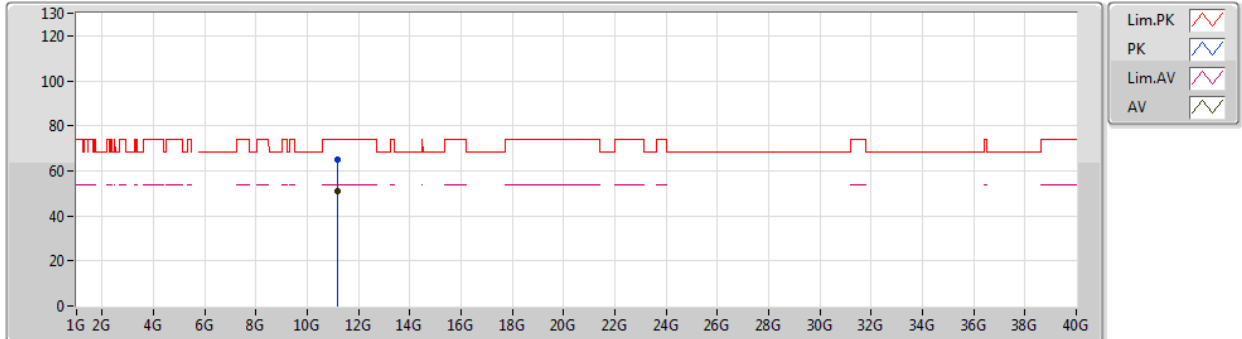
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 58  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4136G	56.80	74.00	-17.20	4.92	3	Horizontal	0	2.89	-	51.88
AV	5.4432G	43.82	54.00	-10.18	4.99	3	Horizontal	0	2.89	-	38.83
PK	5.4688G	57.19	68.20	-11.01	5.04	3	Horizontal	0	2.89	-	52.15
PK	5.5784G	103.49	Inf	-Inf	4.95	3	Horizontal	0	2.89	-	98.54
AV	5.5784G	92.33	Inf	-Inf	4.95	3	Horizontal	0	2.89	-	87.38
PK	5.732G	56.77	68.20	-11.43	5.19	3	Horizontal	0	2.89	-	51.58

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5580MHz\_TX



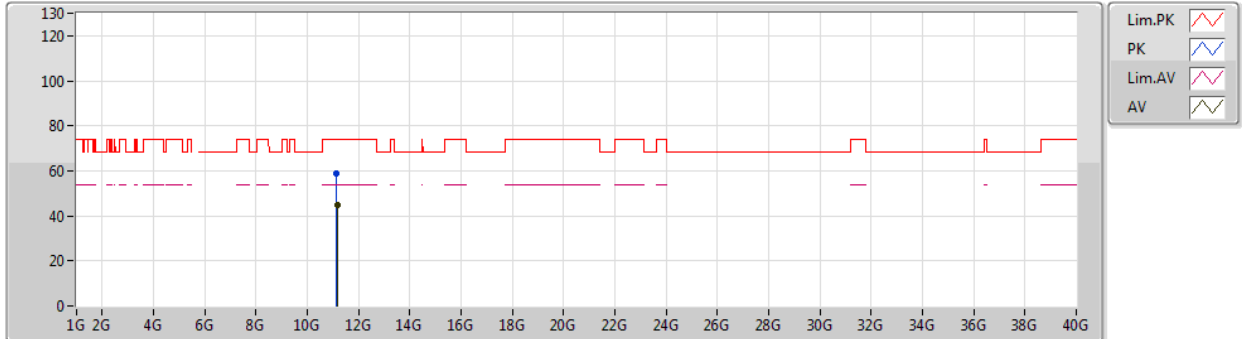
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 Setting 58  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.16544G	65.18	74.00	-8.82	13.87	3	Vertical	69	2.11	-	51.31
AV	11.16048G	50.94	54.00	-3.06	13.88	3	Vertical	69	2.11	-	37.06

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5580MHz\_TX



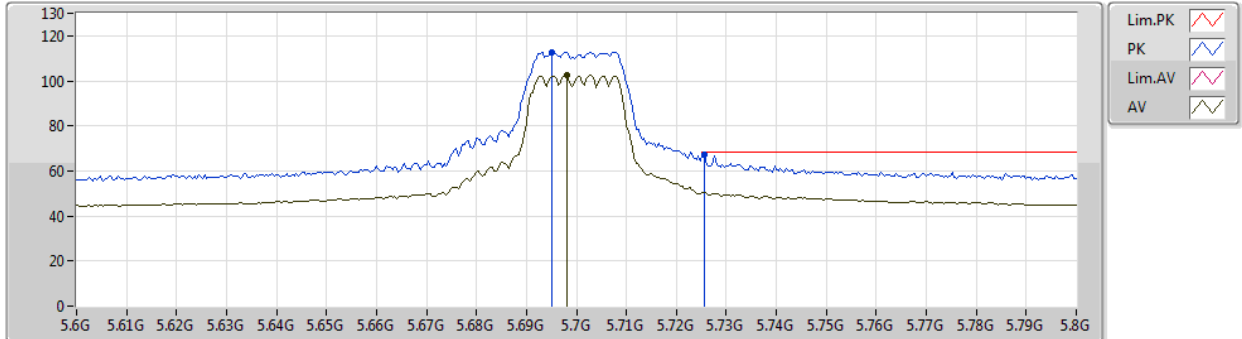
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 Setting 58  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.15344G	58.56	74.00	-15.44	13.90	3	Horizontal	32	2.27	-	44.66
AV	11.16096G	44.66	54.00	-9.34	13.88	3	Horizontal	32	2.27	-	30.78

802.11ac VHT20\_Nss1,(MCS0)\_2TX

16/08/2019

5700MHz\_TX



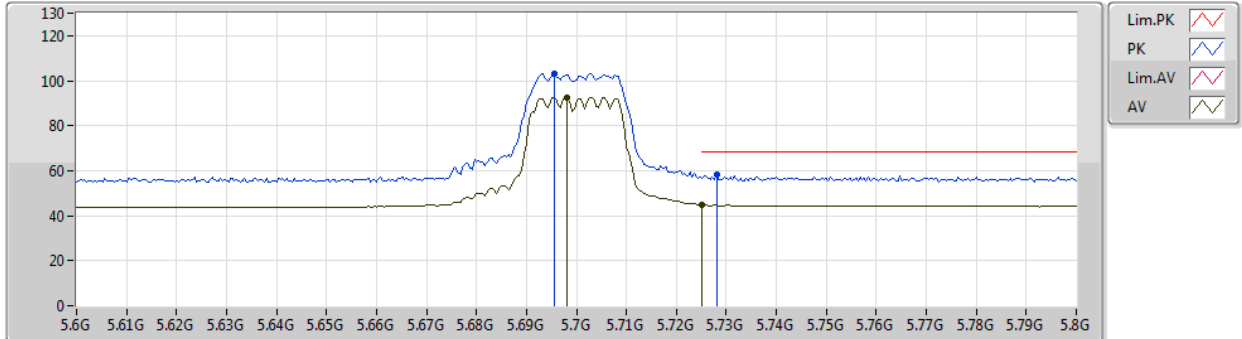
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 Setting 63  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6952G	112.80	Inf	-Inf	5.05	3	Vertical	73	2.30	-	107.75
AV	5.698G	102.35	Inf	-Inf	5.05	3	Vertical	73	2.30	-	97.30
PK	5.7256G	66.99	68.20	-1.21	5.16	3	Vertical	73	2.30	-	61.83

802.11ac VHT20\_Nss1,(MCS0)\_2TX

16/08/2019

5700MHz\_TX



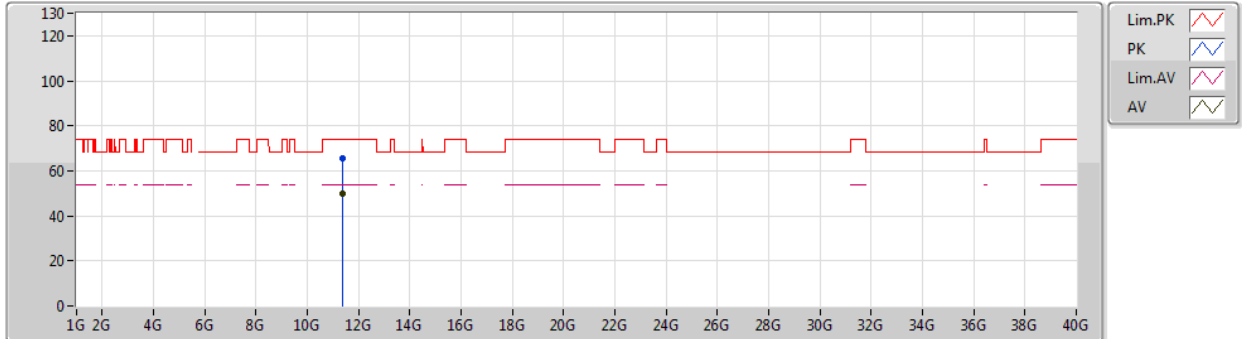
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 Setting 63  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6956G	103.22	Inf	-Inf	5.05	3	Horizontal	33	1.01	-	98.17
AV	5.698G	92.45	Inf	-Inf	5.05	3	Horizontal	33	1.01	-	87.40
PK	5.728G	58.35	68.20	-9.85	5.17	3	Horizontal	33	1.01	-	53.18
AV	5.7252G	44.87	Inf	-Inf	5.16	3	Horizontal	33	1.01	-	39.71

802.11ac VHT20\_Nss1,(MCS0)\_2TX

16/08/2019

5700MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 63  
 06-B-4  
 FSP(100142)  
 R1

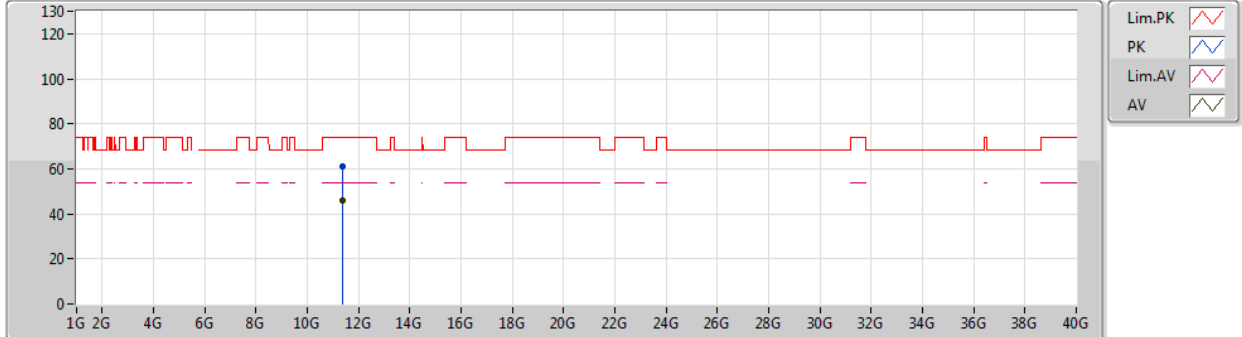
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.4G	65.36	74.00	-8.64	13.46	3	Vertical	69	2.07	-	51.90
AV	11.40016G	49.91	54.00	-4.09	13.46	3	Vertical	69	2.07	-	36.45



802.11ac VHT20\_Nss1,(MCS0)\_2TX

16/08/2019

5700MHz\_TX



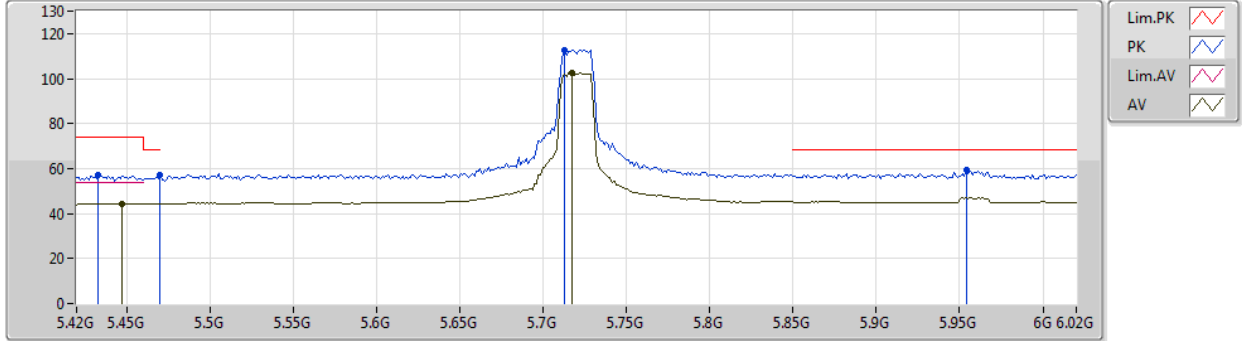
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 63  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.40076G	60.93	74.00	-13.07	13.46	3	Horizontal	12	2.00	-	47.47
AV	11.40016G	46.01	54.00	-7.99	13.46	3	Horizontal	12	2.00	-	32.55

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



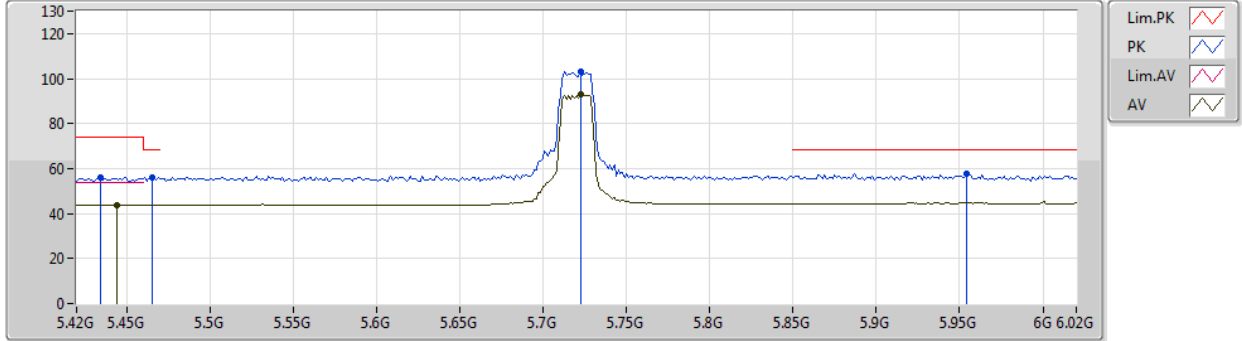
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4332G	57.05	74.00	-16.95	4.96	3	Vertical	74	2.33	-	52.09
AV	5.4476G	44.37	54.00	-9.63	5.00	3	Vertical	74	2.33	-	39.37
PK	5.47G	56.91	68.20	-11.29	5.04	3	Vertical	74	2.33	-	51.87
PK	5.7128G	112.54	Inf	-Inf	5.10	3	Vertical	74	2.33	-	107.44
AV	5.7176G	102.55	Inf	-Inf	5.12	3	Vertical	74	2.33	-	97.43
PK	5.954G	59.13	68.20	-9.07	5.79	3	Vertical	74	2.33	-	53.34

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



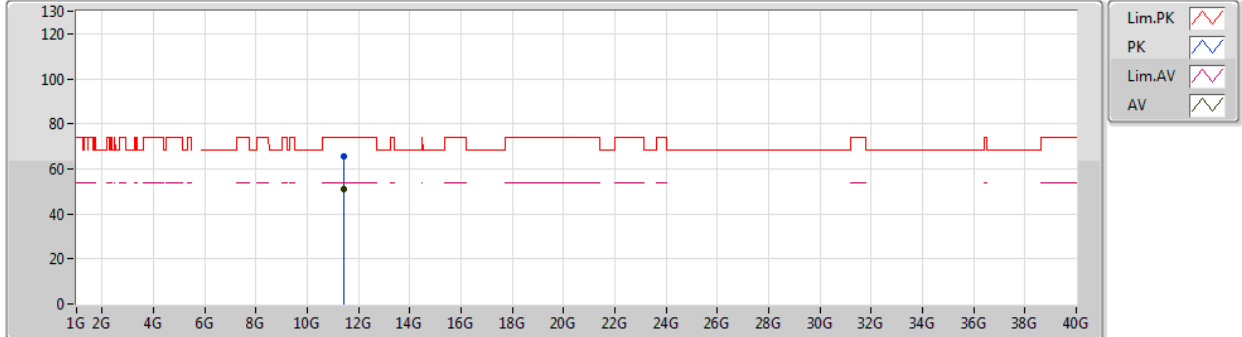
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4344G	56.06	74.00	-17.94	4.96	3	Horizontal	35	1.01	-	51.10
AV	5.444G	43.86	54.00	-10.14	4.99	3	Horizontal	35	1.01	-	38.87
PK	5.4656G	56.06	68.20	-12.14	5.03	3	Horizontal	35	1.01	-	51.03
PK	5.7224G	103.24	Inf	-Inf	5.15	3	Horizontal	35	1.01	-	98.09
AV	5.7224G	92.78	Inf	-Inf	5.15	3	Horizontal	35	1.01	-	87.63
PK	5.954G	57.75	68.20	-10.45	5.79	3	Horizontal	35	1.01	-	51.96

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



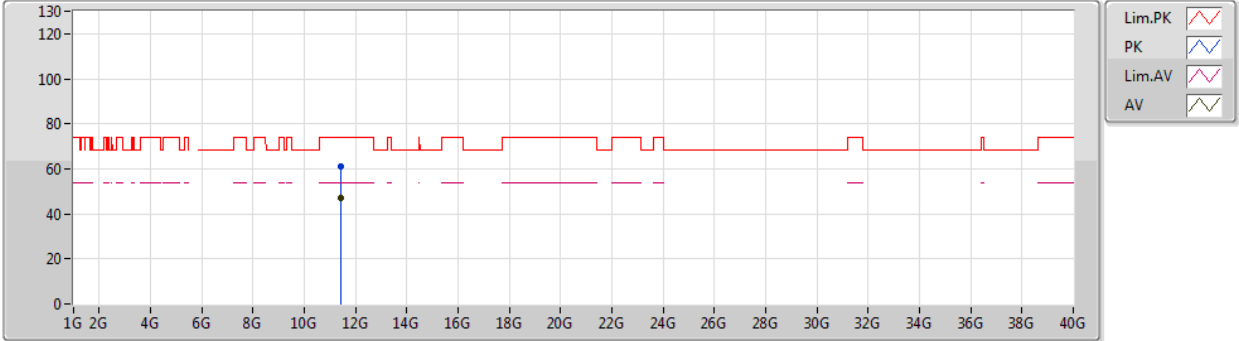
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.44584G	65.53	74.00	-8.47	13.38	3	Vertical	69	2.10	-	52.15
AV	11.44016G	50.78	54.00	-3.22	13.39	3	Vertical	69	2.10	-	37.39

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



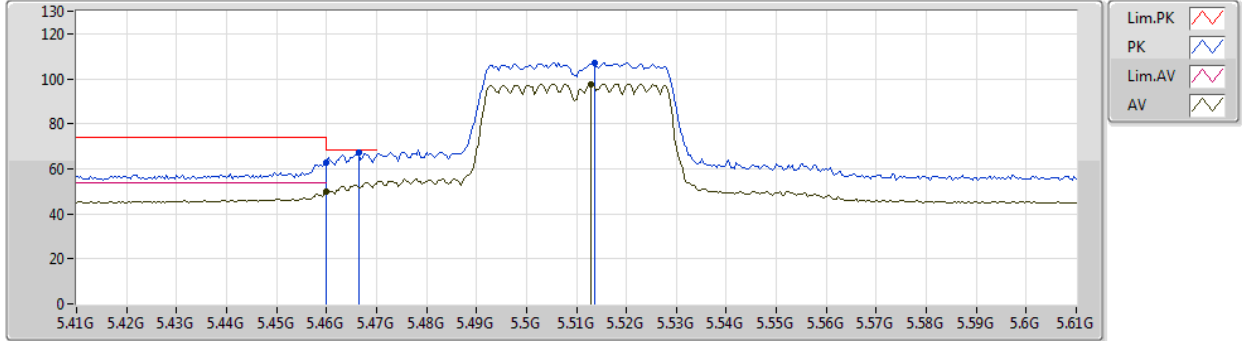
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.44288G	60.97	74.00	-13.03	13.39	3	Horizontal	14	2.00	-	47.58
AV	11.4404G	46.82	54.00	-7.18	13.39	3	Horizontal	14	2.00	-	33.43

802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5510MHz\_TX



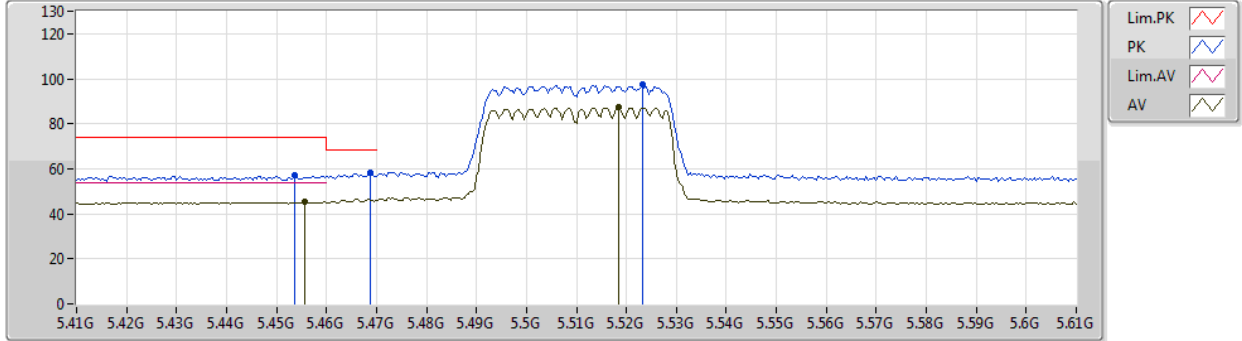
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 42  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.46G	62.48	74.00	-11.52	5.02	3	Vertical	71	2.33	-	57.46
AV	5.46G	49.83	54.00	-4.17	5.02	3	Vertical	71	2.33	-	44.81
PK	5.4664G	66.98	68.20	-1.22	5.03	3	Vertical	71	2.33	-	61.95
PK	5.5136G	107.10	Inf	-Inf	5.07	3	Vertical	71	2.33	-	102.03
AV	5.5128G	97.74	Inf	-Inf	5.07	3	Vertical	71	2.33	-	92.67

802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5510MHz\_TX



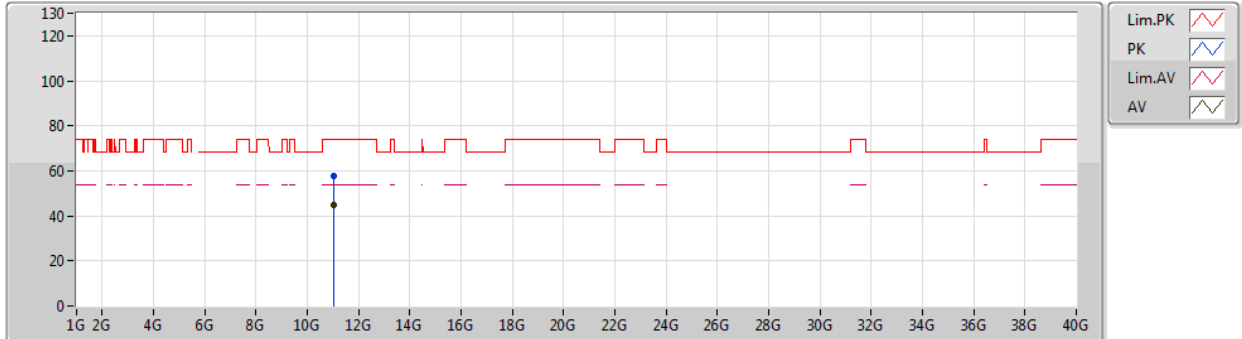
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 42  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4536G	57.11	74.00	-16.89	5.00	3	Horizontal	2	2.09	-	52.11
AV	5.4556G	45.51	54.00	-8.49	5.00	3	Horizontal	2	2.09	-	40.51
PK	5.4688G	58.17	68.20	-10.03	5.04	3	Horizontal	2	2.09	-	53.13
PK	5.5232G	97.40	Inf	-Inf	5.05	3	Horizontal	2	2.09	-	92.35
AV	5.5184G	87.15	Inf	-Inf	5.06	3	Horizontal	2	2.09	-	82.09

802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5510MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 42  
 06-B-4  
 FSP(100142)  
 R1

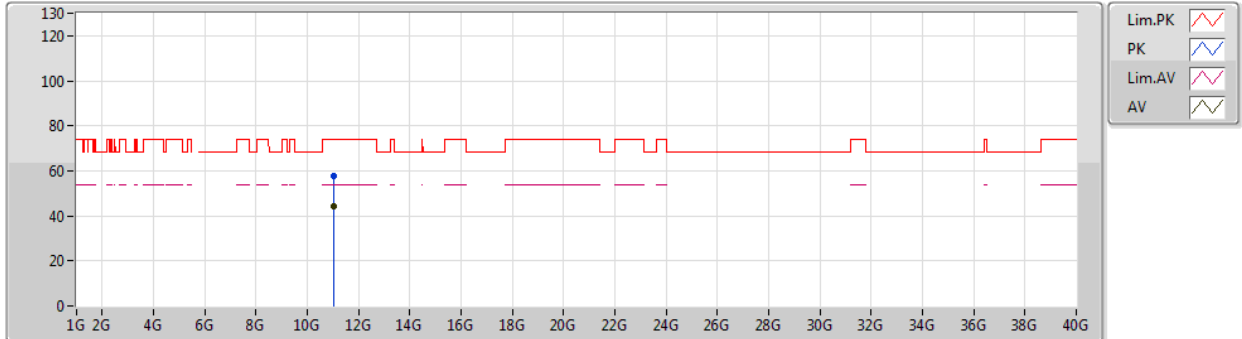
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.0252G	57.76	74.00	-16.24	14.11	3	Vertical	71	2.15	-	43.65
AV	11.02816G	45.03	54.00	-8.97	14.11	3	Vertical	71	2.15	-	30.92



802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5510MHz\_TX



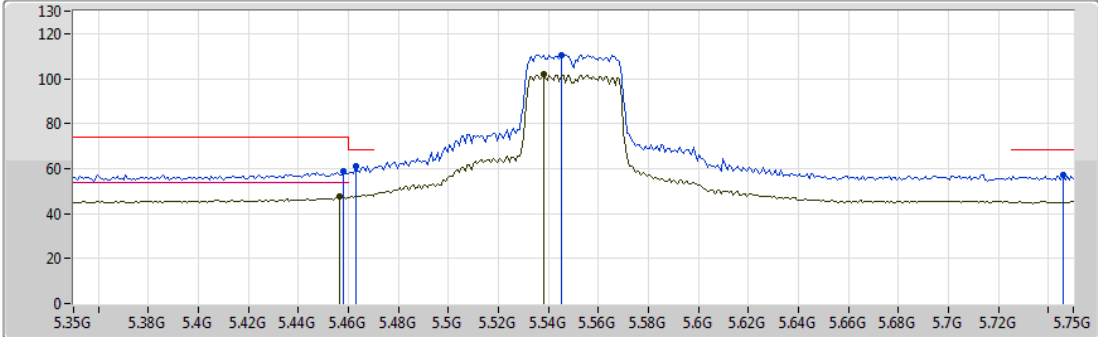
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 42  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.03312G	57.55	74.00	-16.45	14.10	3	Horizontal	254	1.17	-	43.45
AV	11.03616G	44.03	54.00	-9.97	14.10	3	Horizontal	254	1.17	-	29.93

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5550MHz\_TX



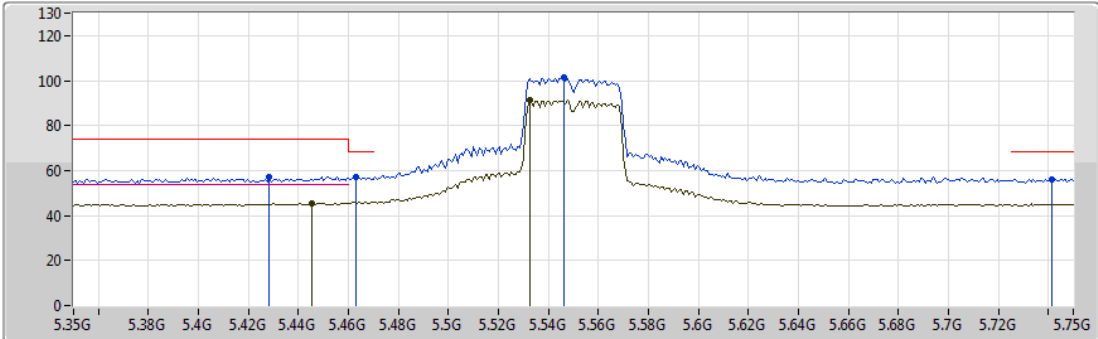
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 58  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.458G	58.98	74.00	-15.02	5.01	3	Vertical	73	2.37	-	53.97
AV	5.4564G	47.77	54.00	-6.23	5.00	3	Vertical	73	2.37	-	42.77
PK	5.4628G	61.15	68.20	-7.05	5.03	3	Vertical	73	2.37	-	56.12
PK	5.5452G	110.49	Inf	-Inf	5.01	3	Vertical	73	2.37	-	105.48
AV	5.538G	101.86	Inf	-Inf	5.02	3	Vertical	73	2.37	-	96.84
PK	5.746G	56.88	68.20	-11.32	5.25	3	Vertical	73	2.37	-	51.63

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5550MHz\_TX



Legend for the spectrum plot:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Magenta line)
- AV (Green line)

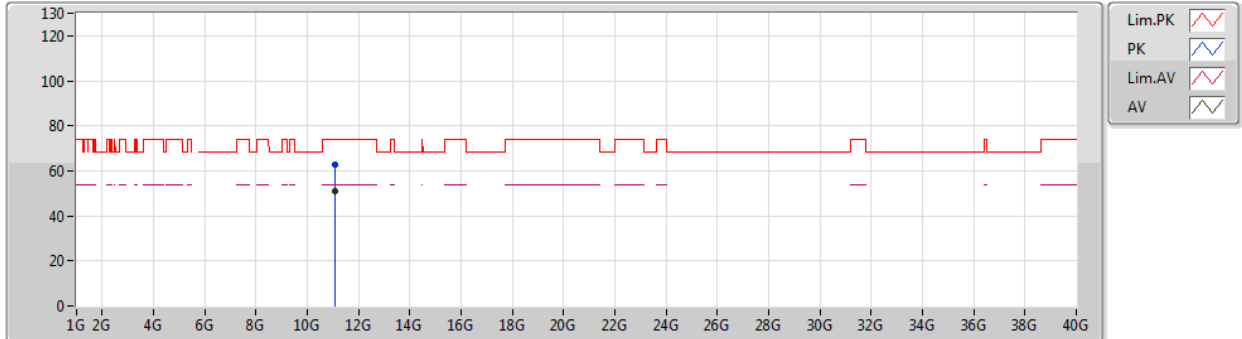
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 58  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4284G	57.40	74.00	-16.60	4.96	3	Horizontal	226	1.13	-	52.44
AV	5.4452G	45.59	54.00	-8.41	4.99	3	Horizontal	226	1.13	-	40.60
PK	5.4628G	57.05	68.20	-11.15	5.03	3	Horizontal	226	1.13	-	52.02
PK	5.546G	101.35	Inf	-Inf	5.01	3	Horizontal	226	1.13	-	96.34
AV	5.5324G	91.23	Inf	-Inf	5.05	3	Horizontal	226	1.13	-	86.18
PK	5.7412G	56.31	68.20	-11.89	5.22	3	Horizontal	226	1.13	-	51.09

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5550MHz\_TX



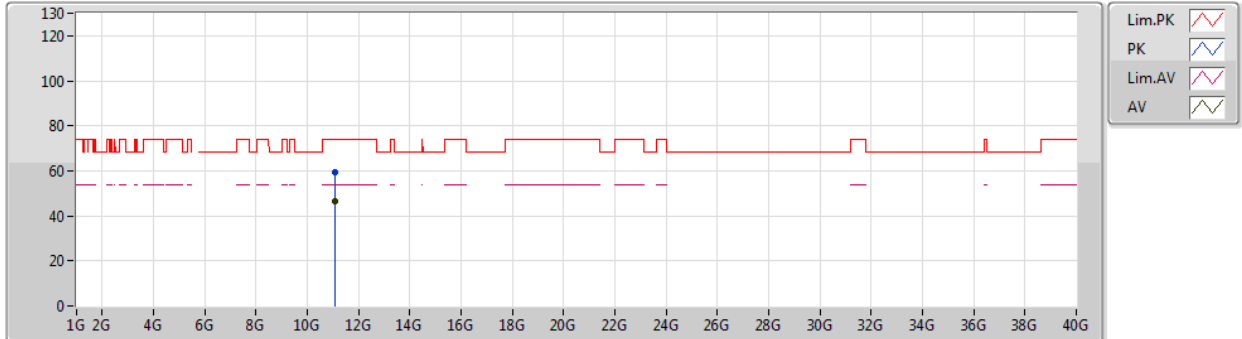
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 58  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.09812G	63.02	74.00	-10.98	13.98	3	Vertical	69	2.14	-	49.04
AV	11.09808G	50.88	54.00	-3.12	13.98	3	Vertical	69	2.14	-	36.90

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5550MHz\_TX



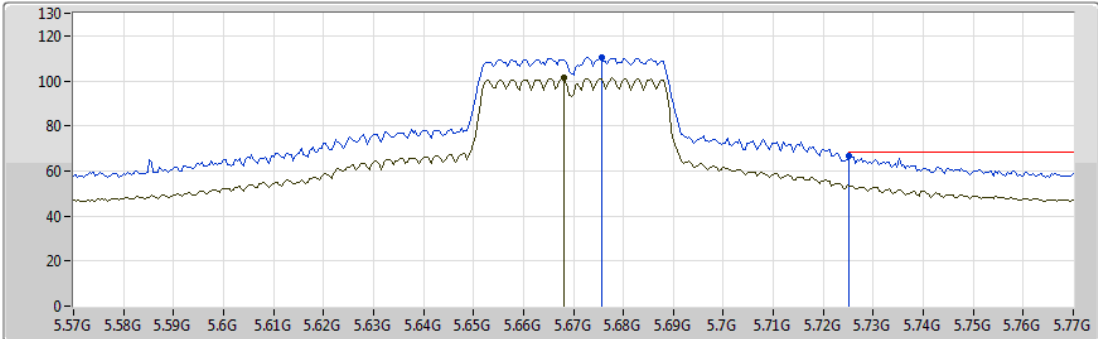
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 Setting 58  
 06-B-4  
 FSP(100142)  
 R1





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.10052G	59.18	74.00	-14.82	13.98	3	Horizontal	36	1.92	-	45.20
AV	11.10592G	46.38	54.00	-7.62	13.97	3	Horizontal	36	1.92	-	32.41

802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5670MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

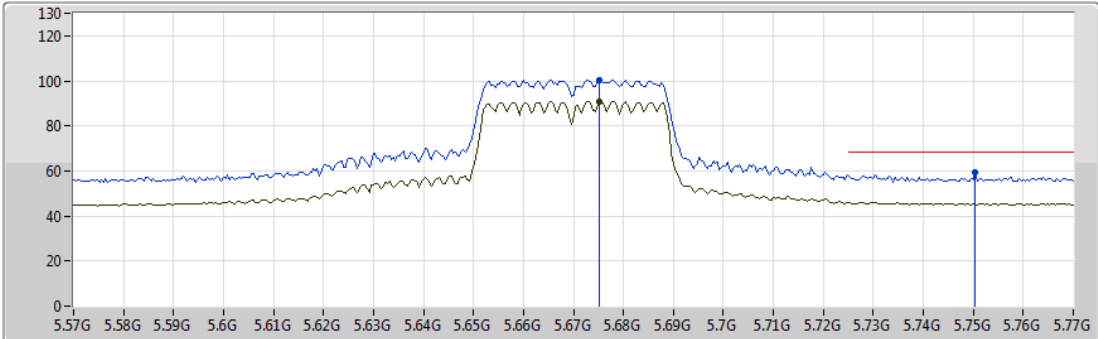
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6756G	110.33	Inf	-Inf	5.02	3	Vertical	75	2.20	-	105.31
AV	5.668G	101.29	Inf	-Inf	5.00	3	Vertical	75	2.20	-	96.29
PK	5.7252G	66.96	68.20	-1.24	5.16	3	Vertical	75	2.20	-	61.80

802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5670MHz\_TX



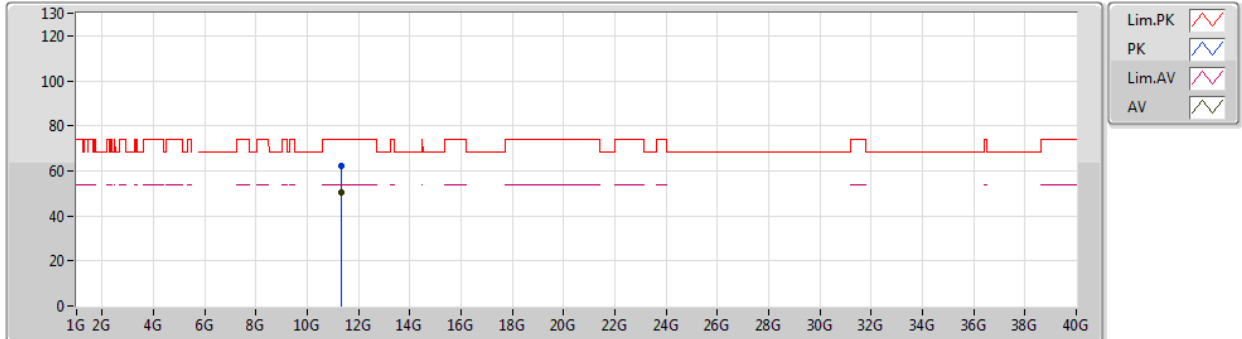
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6752G	100.49	Inf	-Inf	5.02	3	Horizontal	20	1.03	-	95.47
AV	5.6752G	90.93	Inf	-Inf	5.02	3	Horizontal	20	1.03	-	85.91
PK	5.7504G	59.23	68.20	-8.97	5.26	3	Horizontal	20	1.03	-	53.97

802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5670MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4  
 FSP(100142)  
 R1

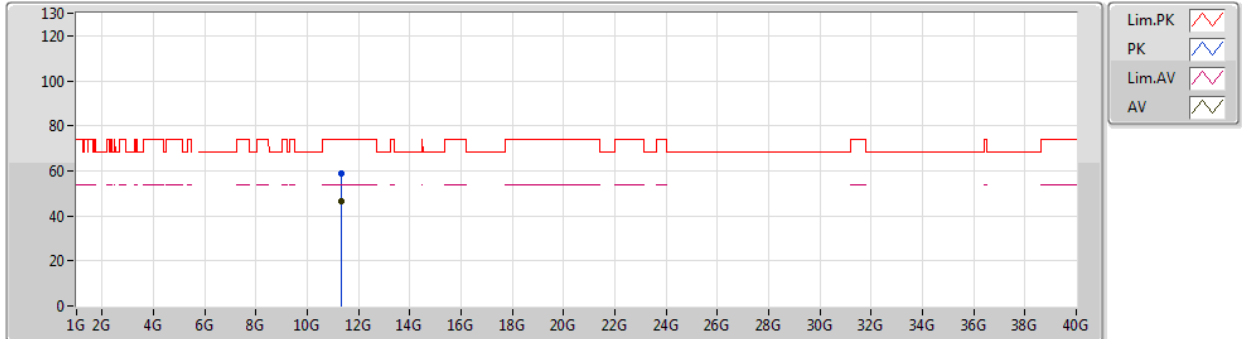
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.34492G	62.22	74.00	-11.78	13.55	3	Vertical	68	2.01	-	48.67
AV	11.34024G	50.43	54.00	-3.57	13.56	3	Vertical	68	2.01	-	36.87



802.11ac VHT40\_Nss1,(MCS0)\_2TX

16/08/2019

5670MHz\_TX



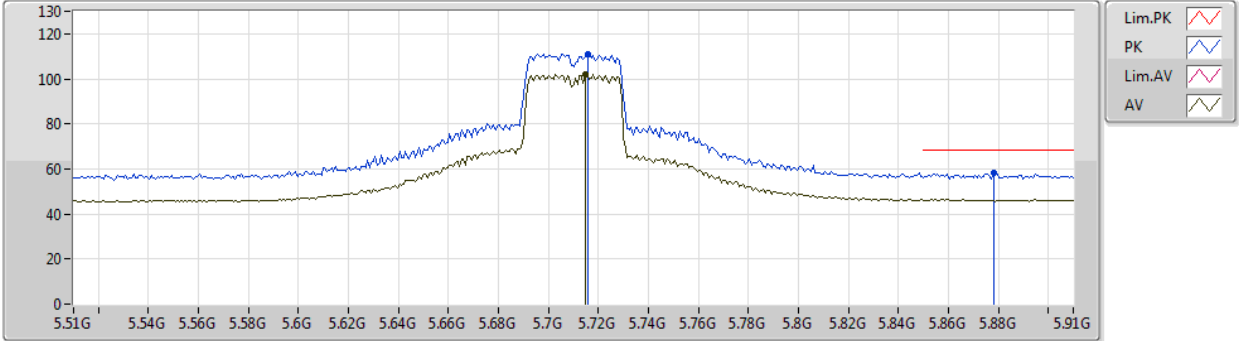
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 61  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.34G	58.84	74.00	-15.16	13.56	3	Horizontal	16	1.96	-	45.28
AV	11.3404G	46.43	54.00	-7.57	13.56	3	Horizontal	16	1.96	-	32.87

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



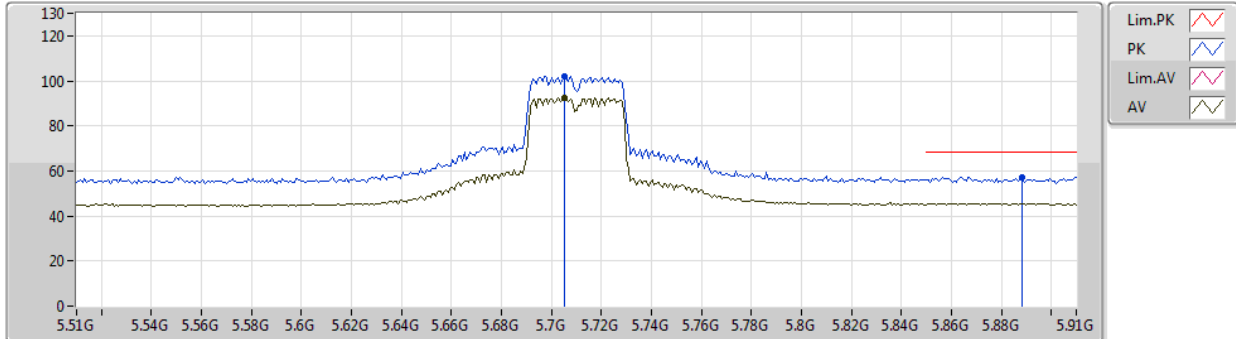
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.7156G	110.87	Inf	-Inf	5.11	3	Vertical	74	2.25	-	105.76
AV	5.7148G	101.89	Inf	-Inf	5.11	3	Vertical	74	2.25	-	96.78
PK	5.878G	58.24	68.20	-9.96	5.72	3	Vertical	74	2.25	-	52.52

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



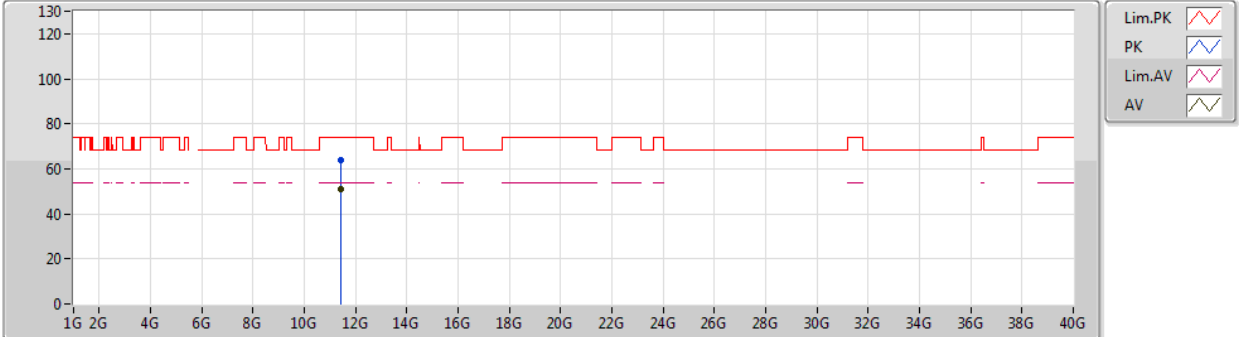
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.7052G	101.96	Inf	-Inf	5.07	3	Horizontal	19	1.04	-	96.89
AV	5.7052G	92.29	Inf	-Inf	5.07	3	Horizontal	19	1.04	-	87.22
PK	5.8884G	57.31	68.20	-10.89	5.75	3	Horizontal	19	1.04	-	51.56

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



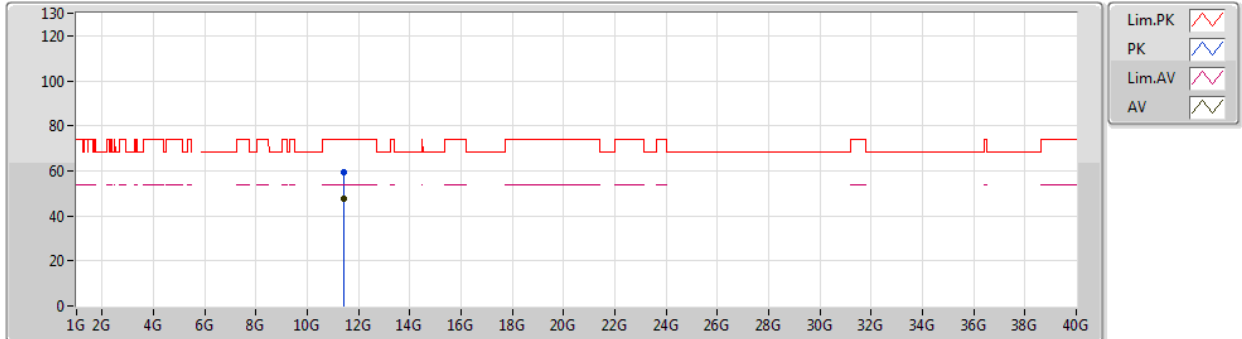
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.41792G	63.66	74.00	-10.34	13.43	3	Vertical	69	1.94	-	50.23
AV	11.41804G	50.99	54.00	-3.01	13.43	3	Vertical	69	1.94	-	37.56

802.11ac VHT40\_Nss1,(MCS0)\_2TX

17/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



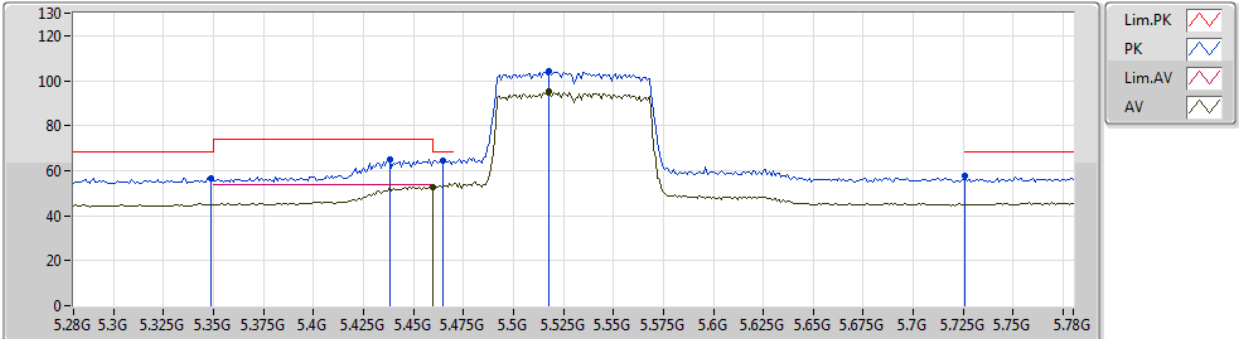
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 65  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.42036G	59.60	74.00	-14.40	13.43	3	Horizontal	18	1.94	-	46.17
AV	11.42024G	47.66	54.00	-6.34	13.43	3	Horizontal	18	1.94	-	34.23

802.11ac VHT80\_Nss1,(MCS0)\_2TX

5530MHz\_TX

16/08/2019



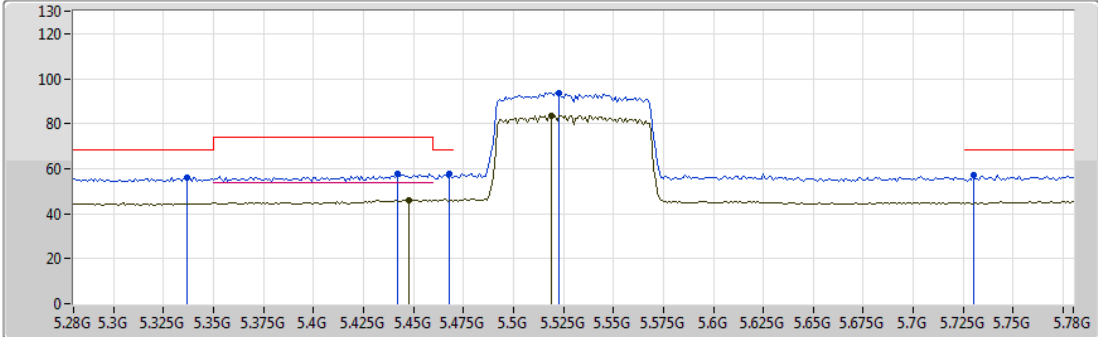
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 43  
 06-B-4-10  
 FSP(100142)  
 R1





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.349G	56.50	68.20	-11.70	4.66	3	Vertical	71	2.29	-	51.84
PK	5.438G	65.20	74.00	-8.80	4.97	3	Vertical	71	2.29	-	60.23
PK	5.465G	64.71	68.20	-3.49	5.03	3	Vertical	71	2.29	-	59.68
AV	5.46G	52.92	54.00	-1.08	5.02	3	Vertical	71	2.29	-	47.90
PK	5.518G	103.99	Inf	-Inf	5.06	3	Vertical	71	2.29	-	98.93
AV	5.518G	95.20	Inf	-Inf	5.06	3	Vertical	71	2.29	-	90.14
PK	5.726G	57.70	68.20	-10.50	5.16	3	Vertical	71	2.29	-	52.54

802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5530MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

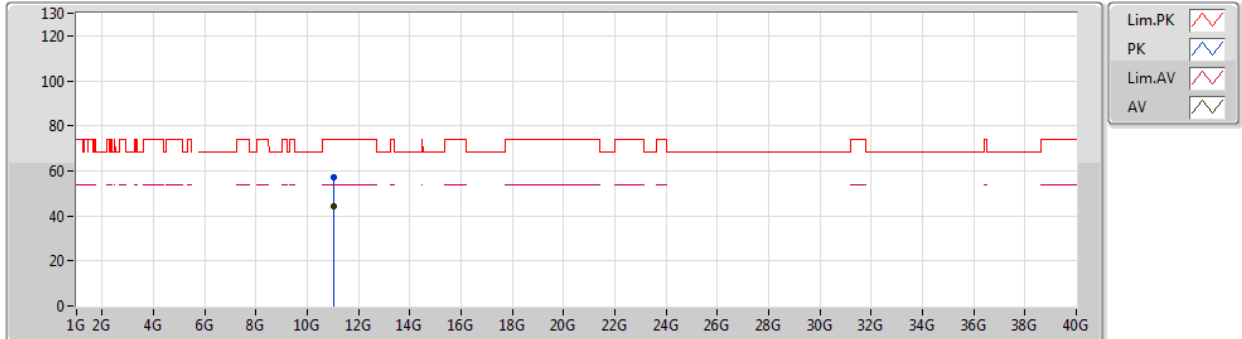
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 43  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.337G	56.03	68.20	-12.17	4.60	3	Horizontal 2	2.07	-	-	51.43
PK	5.442G	57.80	74.00	-16.20	4.98	3	Horizontal 2	2.07	-	-	52.82
AV	5.448G	46.22	54.00	-7.78	5.00	3	Horizontal 2	2.07	-	-	41.22
PK	5.468G	57.69	68.20	-10.51	5.04	3	Horizontal 2	2.07	-	-	52.65
PK	5.523G	93.81	Inf	-Inf	5.05	3	Horizontal 2	2.07	-	-	88.76
AV	5.519G	83.71	Inf	-Inf	5.06	3	Horizontal 2	2.07	-	-	78.65
PK	5.73G	57.21	68.20	-10.99	5.17	3	Horizontal 2	2.07	-	-	52.04

802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5530MHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 43  
 06-B-4  
 FSP(100142)  
 R1

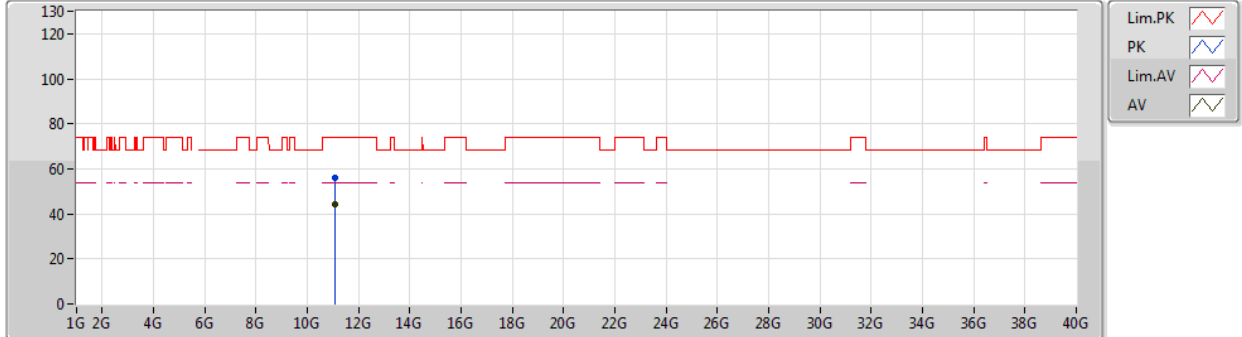
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.02272G	56.95	74.00	-17.05	14.12	3	Vertical	249	2.11	-	42.83
AV	11.04496G	44.53	54.00	-9.47	14.08	3	Vertical	249	2.11	-	30.45



802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5530MHz\_TX



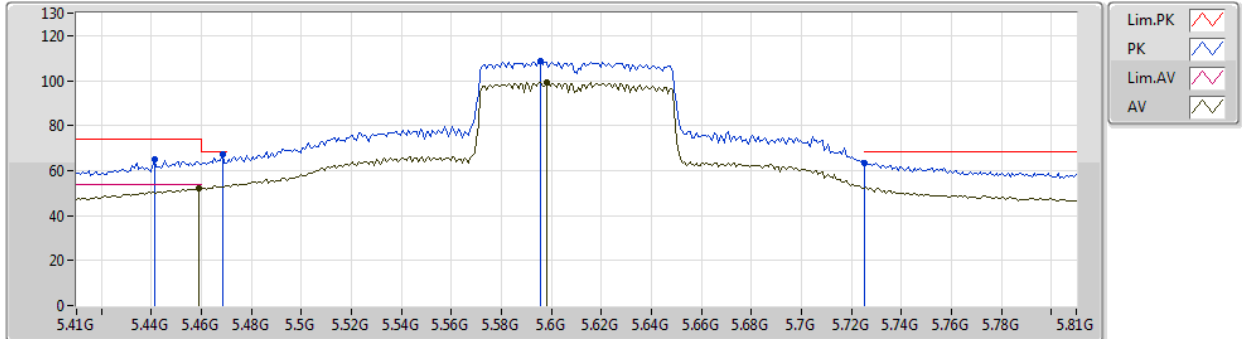
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 43  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.07632G	56.30	74.00	-17.70	14.03	3	Horizontal	170	1.39	-	42.27
AV	11.05904G	44.16	54.00	-9.84	14.05	3	Horizontal	170	1.39	-	30.11

802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5610MHz\_TX



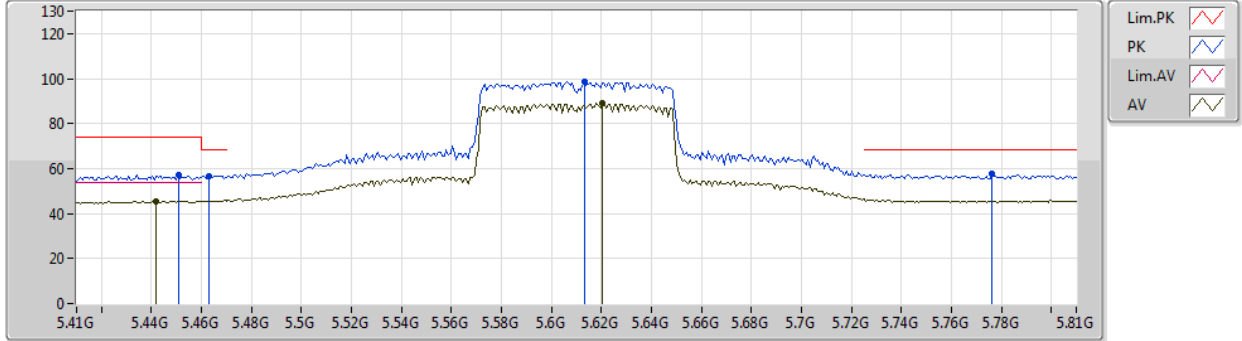
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 67  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4412G	65.02	74.00	-8.98	4.97	3	Vertical	255	2.44	-	60.05
PK	5.4684G	67.10	68.20	-1.10	5.04	3	Vertical	255	2.44	-	62.06
AV	5.4588G	51.91	54.00	-2.09	5.02	3	Vertical	255	2.44	-	46.89
PK	5.5956G	108.55	Inf	-Inf	4.92	3	Vertical	255	2.44	-	103.63
AV	5.598G	99.45	Inf	-Inf	4.91	3	Vertical	255	2.44	-	94.54
PK	5.7252G	63.57	68.20	-4.63	5.16	3	Vertical	255	2.44	-	58.41

802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5610MHz\_TX



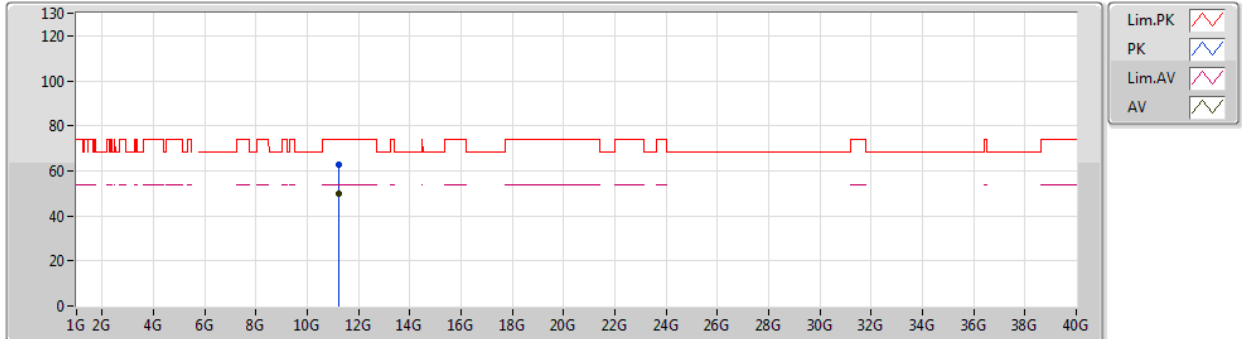
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 67  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4508G	57.31	74.00	-16.69	4.99	3	Horizontal	200	1.01	-	52.32
AV	5.442G	45.62	54.00	-8.38	4.98	3	Horizontal	200	1.01	-	40.64
PK	5.4628G	56.73	68.20	-11.47	5.03	3	Horizontal	200	1.01	-	51.70
PK	5.6132G	98.55	Inf	-Inf	4.92	3	Horizontal	200	1.01	-	93.63
AV	5.6204G	89.08	Inf	-Inf	4.94	3	Horizontal	200	1.01	-	84.14
PK	5.7764G	57.46	68.20	-10.74	5.38	3	Horizontal	200	1.01	-	52.08

802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5610MHz\_TX



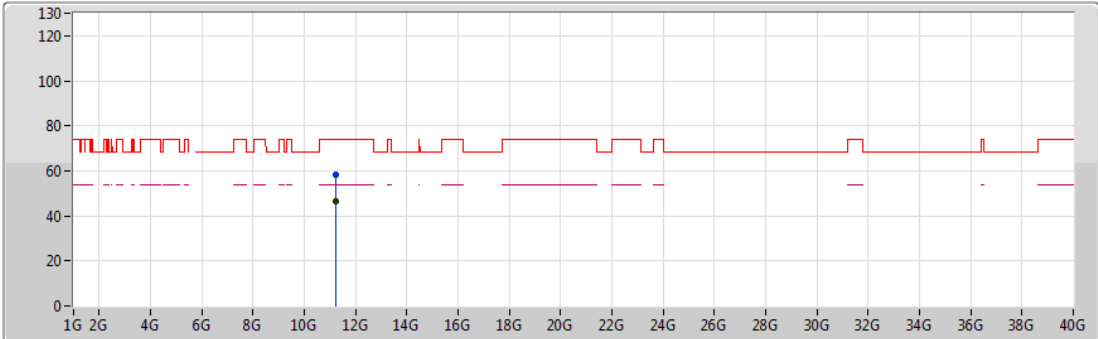
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 67  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.22032G	62.91	74.00	-11.09	13.78	3	Vertical	248	2.17	-	49.13
AV	11.21824G	50.05	54.00	-3.95	13.78	3	Vertical	248	2.17	-	36.27

802.11ac VHT80\_Nss1,(MCS0)\_2TX

16/08/2019

5610MHz\_TX



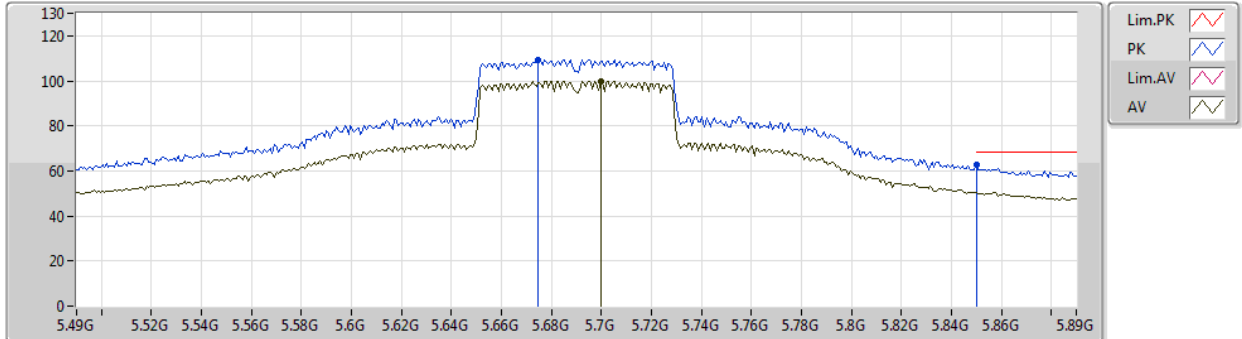
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 67  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.24128G	58.52	74.00	-15.48	13.74	3	Horizontal	215	1.99	-	44.78
AV	11.216G	46.26	54.00	-7.74	13.79	3	Horizontal	215	1.99	-	32.47

802.11ac VHT80\_Nss1,(MCS0)\_2TX

17/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



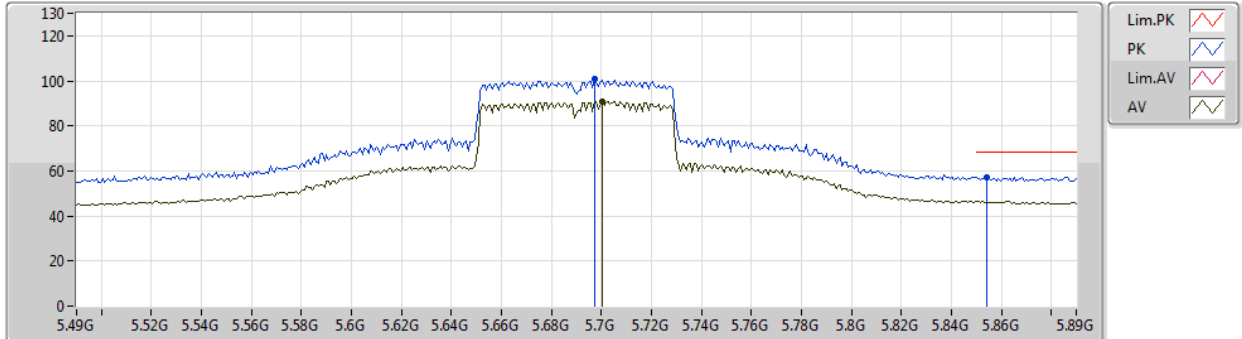
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 72  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6748G	109.54	Inf	-Inf	5.01	3	Vertical	77	1.01	-	104.53
AV	5.6996G	99.90	Inf	-Inf	5.05	3	Vertical	77	1.01	-	94.85
PK	5.85G	62.61	68.20	-5.59	5.64	3	Vertical	77	1.01	-	56.97

802.11ac VHT80\_Nss1,(MCS0)\_2TX

17/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



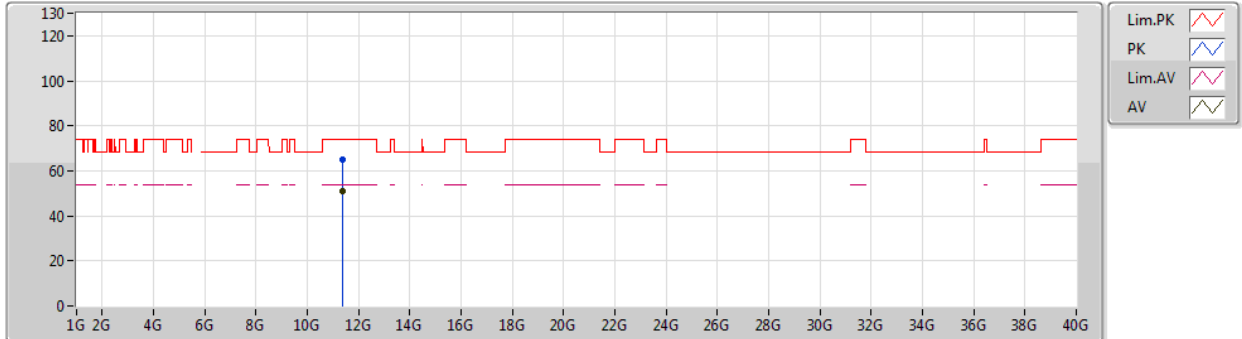
EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 72  
 06-B-4-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6972G	100.93	Inf	-Inf	5.05	3	Horizontal	19	1.06	-	95.88
AV	5.7004G	90.96	Inf	-Inf	5.05	3	Horizontal	19	1.06	-	85.91
PK	5.854G	57.28	68.20	-10.92	5.65	3	Horizontal	19	1.06	-	51.63

802.11ac VHT80\_Nss1,(MCS0)\_2TX

17/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 72  
 06-B-4  
 FSP(100142)  
 R1

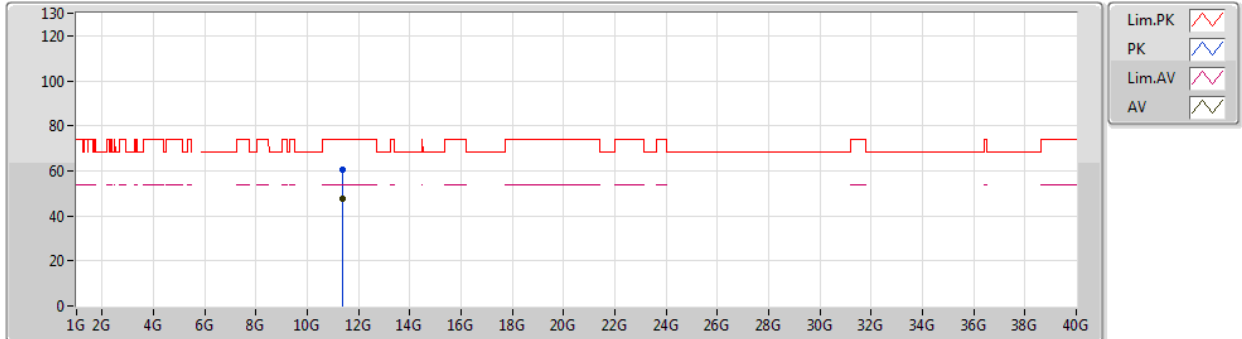
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.382726G	65.13	74.00	-8.87	13.50	3	Vertical	68	1.99	-	51.63
AV	11.38276G	50.98	54.00	-3.02	13.50	3	Vertical	68	1.99	-	37.48



802.11ac VHT80\_Nss1,(MCS0)\_2TX

17/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



EUT\_X\_2TX\_Pifa(N5X20B-T2L-PK1-G100U)  
 Setting 72  
 06-B-4  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.37312G	60.30	74.00	-13.70	13.50	3	Horizontal	14	1.93	-	46.80
AV	11.3778G	47.73	54.00	-6.27	13.50	3	Horizontal	14	1.93	-	34.23



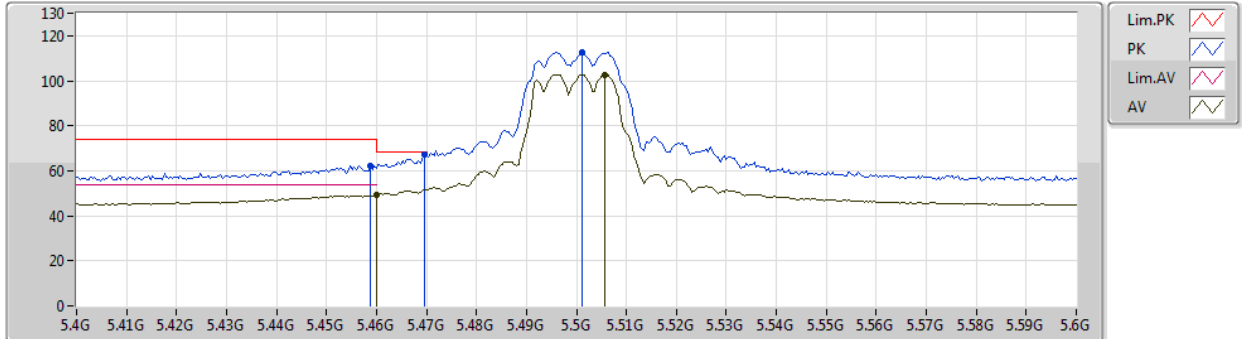
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	PK	5.4688G	67.19	68.20	-1.01	5.04	3	Vertical	23	2.32	-

802.11a\_Nss1,(6Mbps)\_2TX

5500MHz\_TX

15/08/2019



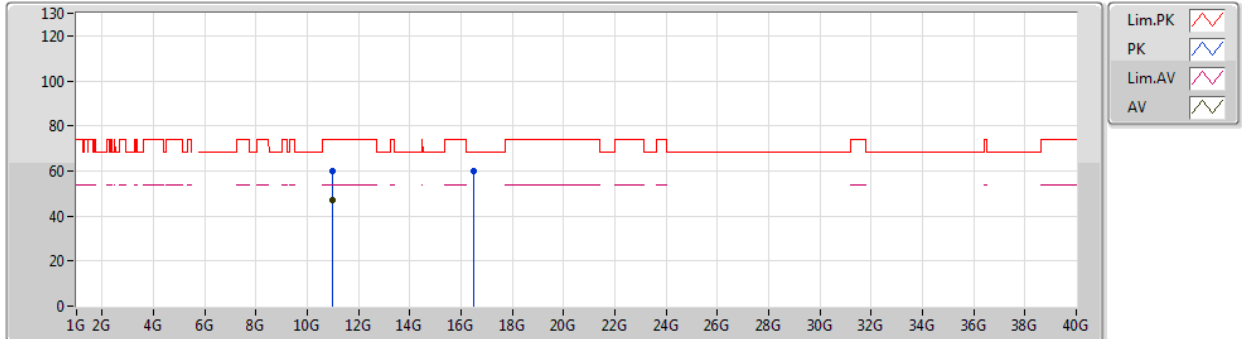
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 68  
 06-J-5-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4588G	62.21	74.00	-11.79	5.02	3	Vertical	172	2.95	-	57.19
AV	5.46G	49.24	54.00	-4.76	5.02	3	Vertical	172	2.95	-	44.22
PK	5.4696G	67.12	68.20	-1.08	5.04	3	Vertical	172	2.95	-	62.08
PK	5.5012G	112.56	Inf	-Inf	5.10	3	Vertical	172	2.95	-	107.46
AV	5.5056G	102.76	Inf	-Inf	5.09	3	Vertical	172	2.95	-	97.67

802.11a\_Nss1,(6Mbps)\_2TX

15/08/2019

5500MHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 68  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.00522G	60.13	74.00	-13.87	14.15	3	Vertical	294	1.92	-	45.98
AV	11.00084G	46.85	54.00	-7.15	14.16	3	Vertical	294	1.92	-	32.69
PK	16.5069G	59.77	68.20	-8.43	14.68	3	Vertical	279	2.05	-	45.09

### 802.11a\_Nss1,(6Mbps)\_2TX

15/08/2019

### 5500MHz\_TX



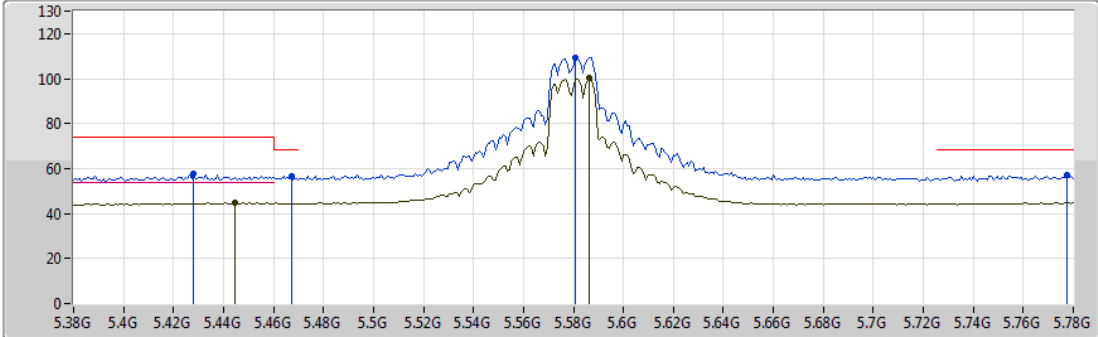
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 68  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.00054G	63.44	74.00	-10.56	14.16	3	Horizontal	233	1.91	-	49.28
AV	11.00042G	49.37	54.00	-4.63	14.16	3	Horizontal	233	1.91	-	35.21
PK	16.49142G	60.73	68.20	-7.47	14.63	3	Horizontal	106	1.79	-	46.10

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5580MHz\_TX



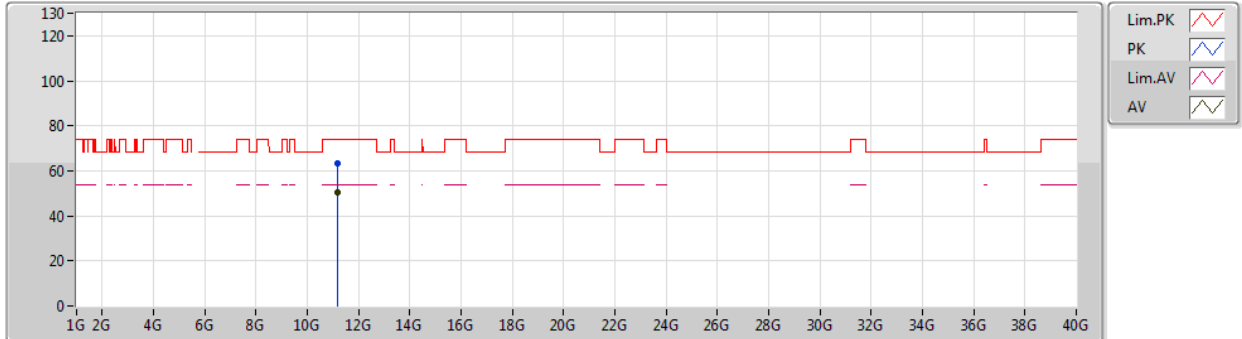
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 76  
 06-J-5-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.428G	57.62	74.00	-16.38	4.96	3	Vertical	192	1.00	-	52.66
AV	5.4448G	44.70	54.00	-9.30	4.99	3	Vertical	192	1.00	-	39.71
PK	5.4672G	56.75	68.20	-11.45	5.03	3	Vertical	192	1.00	-	51.72
PK	5.5808G	109.38	Inf	-Inf	4.95	3	Vertical	192	1.00	-	104.43
AV	5.5864G	100.06	Inf	-Inf	4.94	3	Vertical	192	1.00	-	95.12
PK	5.7776G	56.97	68.20	-11.23	5.38	3	Vertical	192	1.00	-	51.59

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5580MHz\_TX



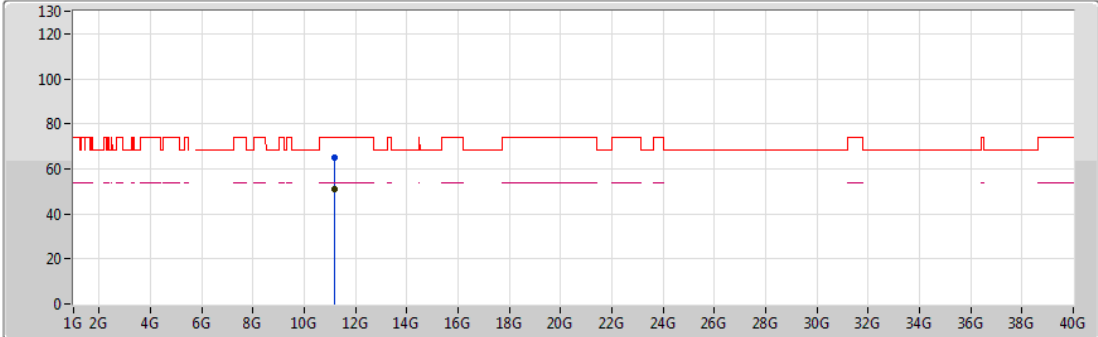
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 76  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.1604G	63.58	74.00	-10.42	13.88	3	Vertical	339	1.97	-	49.70
AV	11.15984G	50.19	54.00	-3.81	13.88	3	Vertical	339	1.97	-	36.31

### 802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

### 5580MHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 76  
 06-J-5  
 FSP(100142)  
 R1

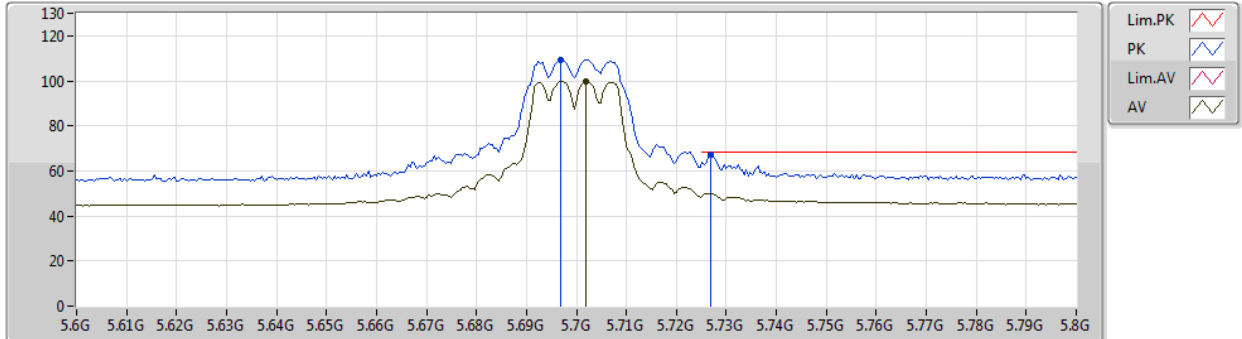
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.16024G	64.72	74.00	-9.28	13.88	3	Horizontal	44	1.85	-	50.84
AV	11.16024G	50.95	54.00	-3.05	13.88	3	Horizontal	44	1.85	-	37.07



802.11a\_Nss1,(6Mbps)\_2TX

15/08/2019

5700MHz\_TX



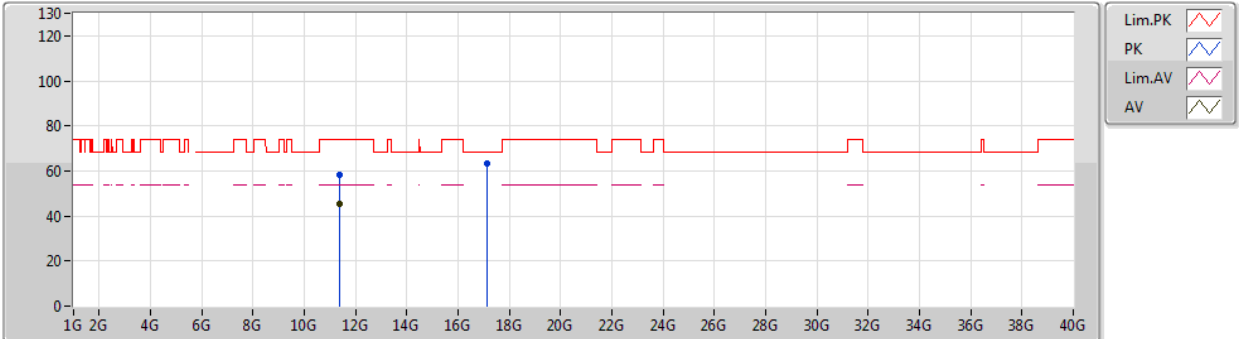
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 69  
 06-J-5-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6968G	109.38	Inf	-Inf	5.05	3	Vertical	204	2.08	-	104.33
AV	5.702G	99.73	Inf	-Inf	5.06	3	Vertical	204	2.08	-	94.67
PK	5.7268G	67.06	68.20	-1.14	5.17	3	Vertical	204	2.08	-	61.89

### 802.11a\_Nss1,(6Mbps)\_2TX

15/08/2019

### 5700MHz\_TX



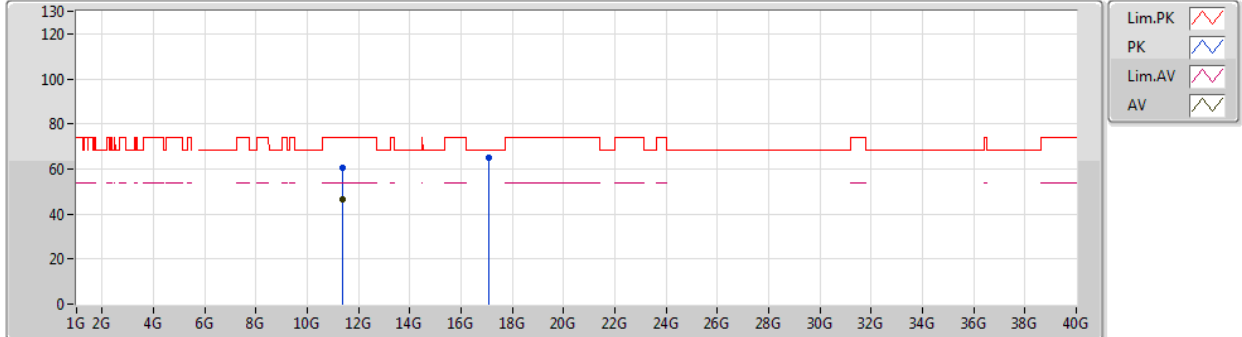
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 69  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.39634G	58.33	74.00	-15.67	13.48	3	Vertical	195	1.50	-	44.85
AV	11.40126G	45.21	54.00	-8.79	13.46	3	Vertical	195	1.50	-	31.75
PK	17.112G	63.08	68.20	-5.12	17.58	3	Vertical	108	2.27	-	45.50

### 802.11a\_Nss1,(6Mbps)\_2TX

16/08/2019

### 5700MHz\_TX



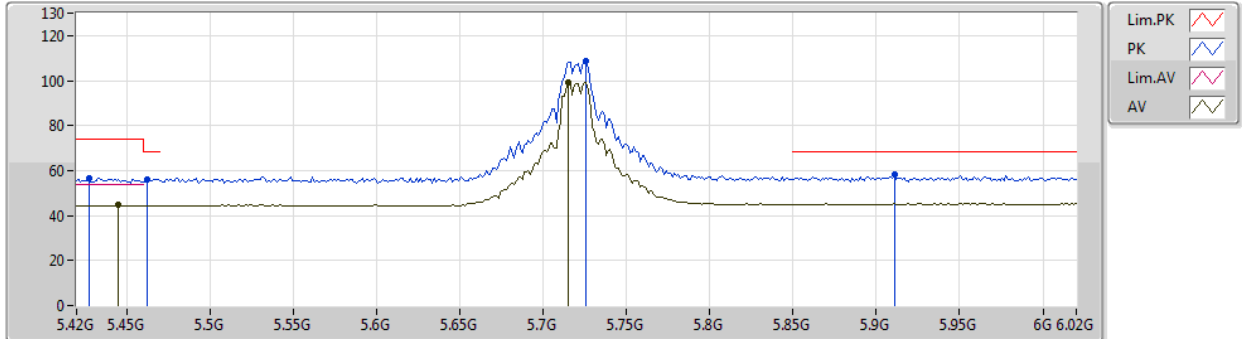
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 69  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.39928G	60.30	74.00	-13.70	13.46	3	Horizontal	230	1.94	-	46.84
AV	11.4003G	46.78	54.00	-7.22	13.46	3	Horizontal	230	1.94	-	33.32
PK	17.09704G	64.98	68.20	-3.22	17.41	3	Horizontal	326	1.77	-	47.57

802.11a\_Nss1,(6Mbps)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



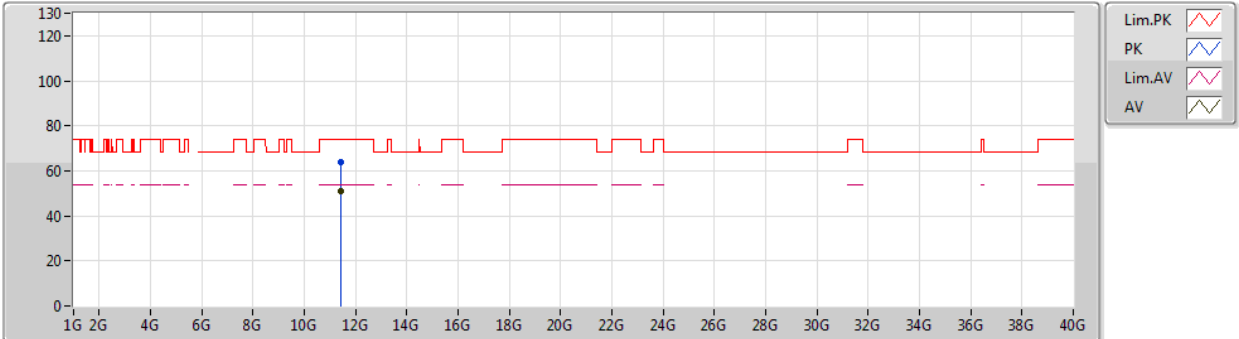
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 81  
 06-J-5-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4272G	56.60	74.00	-17.40	4.95	3	Vertical	183	1.01	-	51.65
AV	5.4452G	44.64	54.00	-9.36	4.99	3	Vertical	183	1.01	-	39.65
PK	5.462G	56.18	68.20	-12.02	5.02	3	Vertical	183	1.01	-	51.16
PK	5.726G	108.62	Inf	-Inf	5.16	3	Vertical	183	1.01	-	103.46
AV	5.7152G	99.29	Inf	-Inf	5.11	3	Vertical	183	1.01	-	94.18
PK	5.9108G	58.03	68.20	-10.17	5.79	3	Vertical	183	1.01	-	52.24

802.11a\_Nss1,(6Mbps)\_2TX

16/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



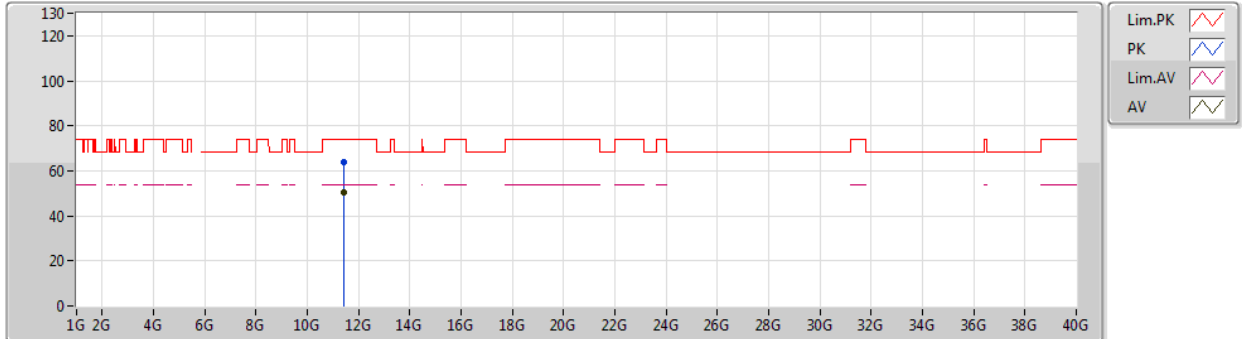
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 81  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.4456G	63.79	74.00	-10.21	13.38	3	Vertical	329	1.71	-	50.41
AV	11.44192G	50.77	54.00	-3.23	13.39	3	Vertical	329	1.71	-	37.38

802.11a\_Nss1,(6Mbps)\_2TX

16/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



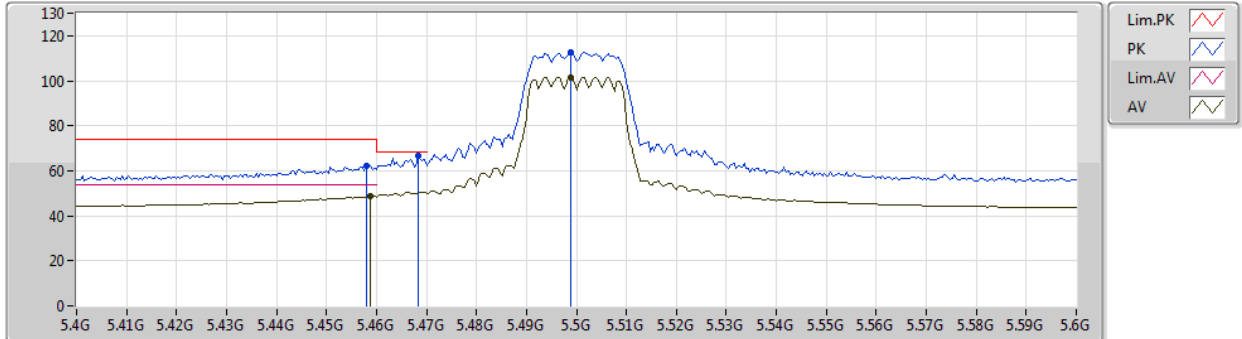
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 81  
 06-J-5  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.44032G	64.12	74.00	-9.88	13.39	3	Horizontal	29	1.87	-	50.73
AV	11.44G	50.56	54.00	-3.44	13.39	3	Horizontal	29	1.87	-	37.17

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5500MHz\_TX



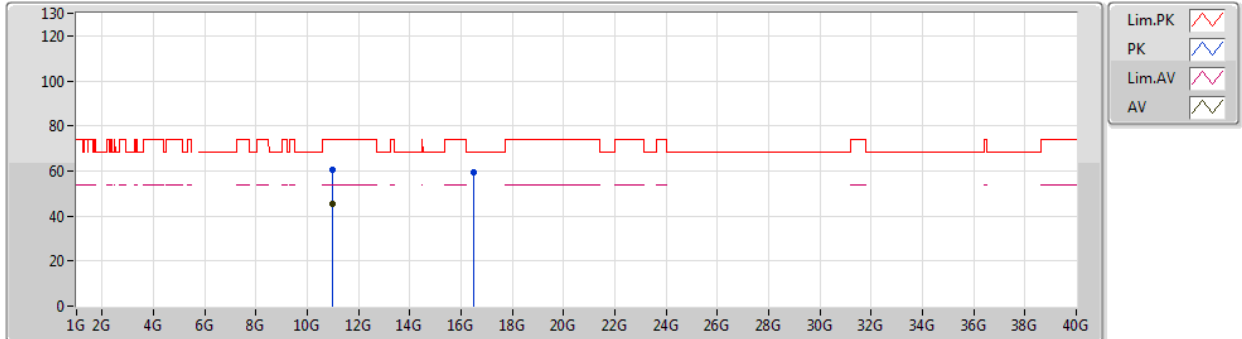
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 67  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.458G	62.16	74.00	-11.84	5.01	3	Vertical	22	2.34	-	57.15
AV	5.4588G	48.75	54.00	-5.25	5.02	3	Vertical	22	2.34	-	43.73
PK	5.4684G	66.84	68.20	-1.36	5.04	3	Vertical	22	2.34	-	61.80
PK	5.4988G	112.51	Inf	-Inf	5.10	3	Vertical	22	2.34	-	107.41
AV	5.4988G	101.38	Inf	-Inf	5.10	3	Vertical	22	2.34	-	96.28

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5500MHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 67  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.00232G	60.65	74.00	-13.35	14.16	3	Vertical	44	2.69	-	46.49
AV	11.00016G	45.65	54.00	-8.35	14.16	3	Vertical	44	2.69	-	31.49
PK	16.50288G	59.45	68.20	-8.75	14.67	3	Vertical	1	2.50	-	44.78



802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5500MHz\_TX



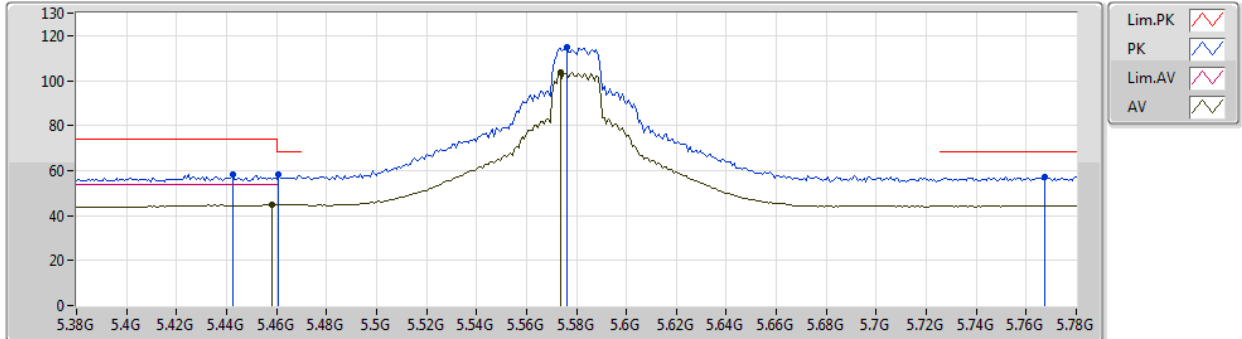
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 67  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.003G	61.71	74.00	-12.29	14.16	3	Horizontal	344	2.23	-	47.55
AV	11.00036G	46.50	54.00	-7.50	14.16	3	Horizontal	344	2.23	-	32.34
PK	16.4982G	60.55	68.20	-7.65	14.65	3	Horizontal	71	1.89	-	45.90

### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

### 5580MHz\_TX



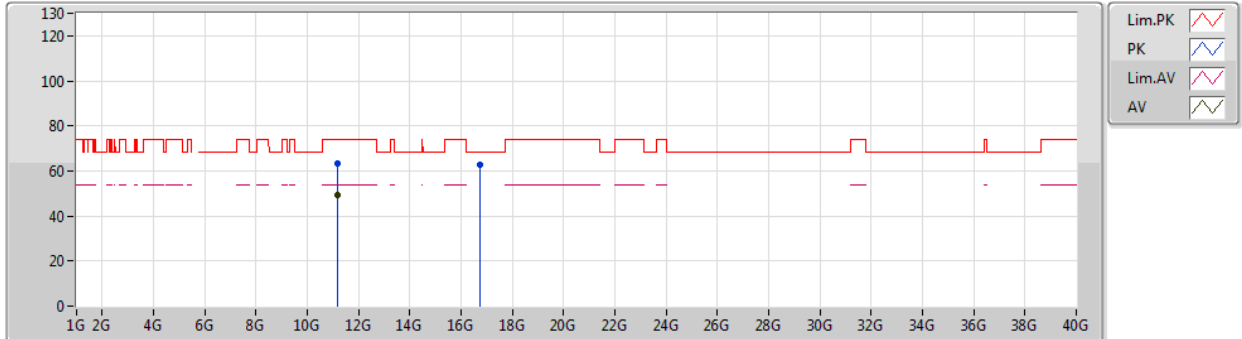
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4424G	58.13	74.00	-15.87	4.98	3	Vertical	25	2.90	-	53.15
AV	5.4584G	44.74	54.00	-9.26	5.02	3	Vertical	25	2.90	-	39.72
PK	5.4608G	58.20	68.20	-10.00	5.02	3	Vertical	25	2.90	-	53.18
PK	5.576G	114.70	Inf	-Inf	4.96	3	Vertical	25	2.90	-	109.74
AV	5.5736G	103.64	Inf	-Inf	4.96	3	Vertical	25	2.90	-	98.68
PK	5.7672G	57.17	68.20	-11.03	5.34	3	Vertical	25	2.90	-	51.83

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5580MHz\_TX



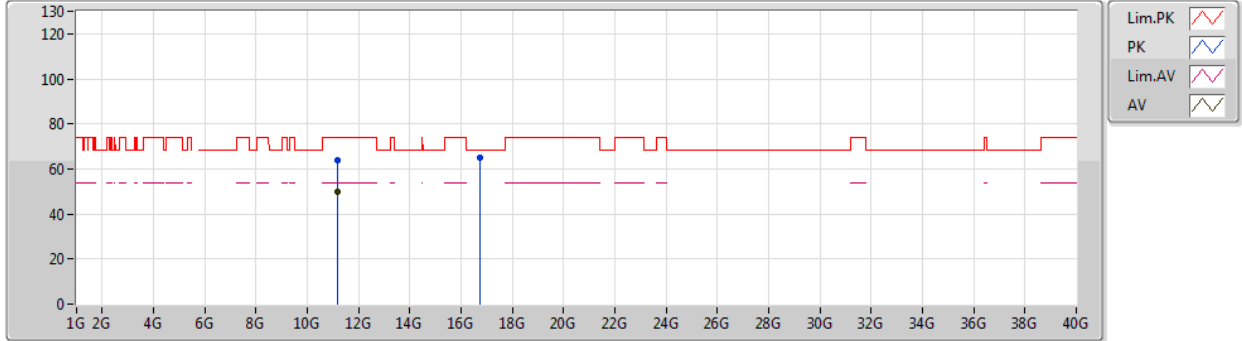
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.16084G	63.44	74.00	-10.56	13.88	3	Vertical	11	1.81	-	49.56
AV	11.16084G	49.42	54.00	-4.58	13.88	3	Vertical	11	1.81	-	35.54
PK	16.73862G	62.65	68.20	-5.55	15.48	3	Vertical	12	2.43	-	47.17

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5580MHz\_TX



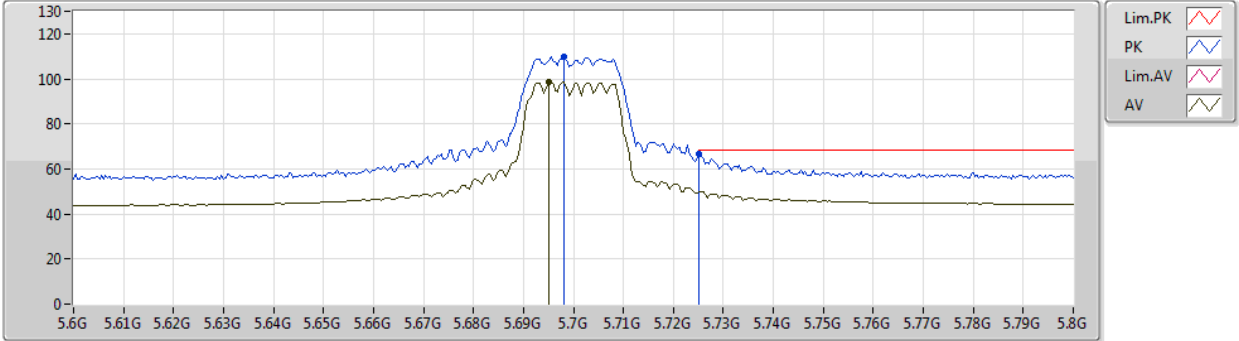
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.17038G	63.98	74.00	-10.02	13.86	3	Horizontal	43	1.96	-	50.12
AV	11.16036G	49.77	54.00	-4.23	13.88	3	Horizontal	43	1.96	-	35.89
PK	16.74294G	64.89	68.20	-3.31	15.50	3	Horizontal	298	2.57	-	49.39

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5700MHz\_TX



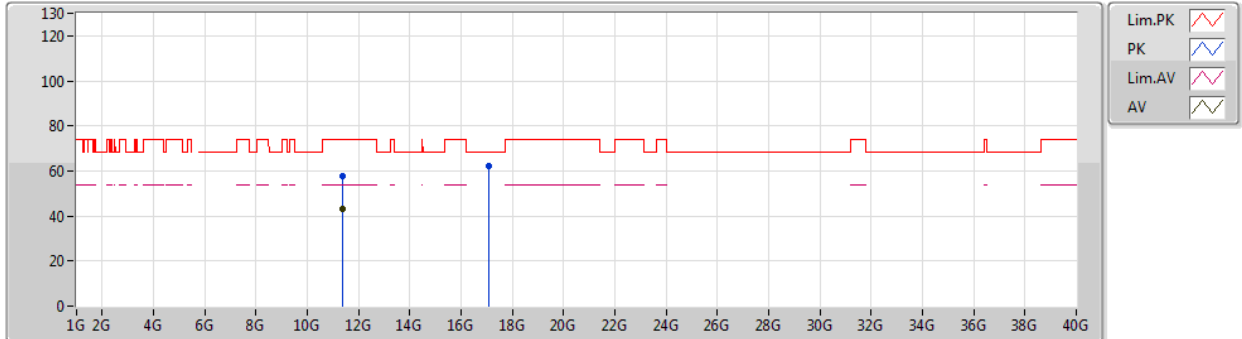
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 69  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.698G	109.82	Inf	-Inf	5.05	3	Vertical	33	2.14	-	104.77
AV	5.6952G	98.36	Inf	-Inf	5.05	3	Vertical	33	2.14	-	93.31
PK	5.7252G	66.63	68.20	-1.57	5.16	3	Vertical	33	2.14	-	61.47

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5700MHz\_TX



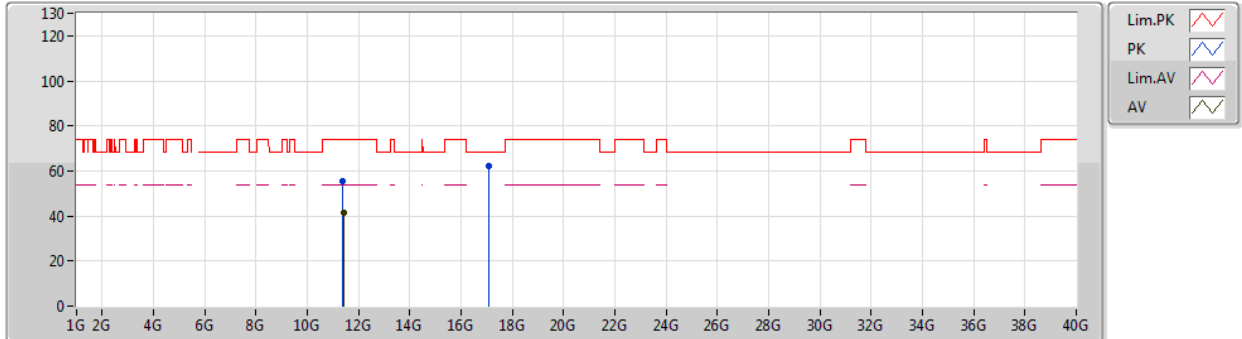
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 69  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.4016G	57.87	74.00	-16.13	13.46	3	Vertical	60	1.87	-	44.41
AV	11.39932G	43.26	54.00	-10.74	13.46	3	Vertical	60	1.87	-	29.80
PK	17.09904G	62.01	68.20	-6.19	17.43	3	Vertical	330	2.15	-	44.58

802.11ac VHT20\_Nss1,(MCS0)\_2TX

15/08/2019

5700MHz\_TX



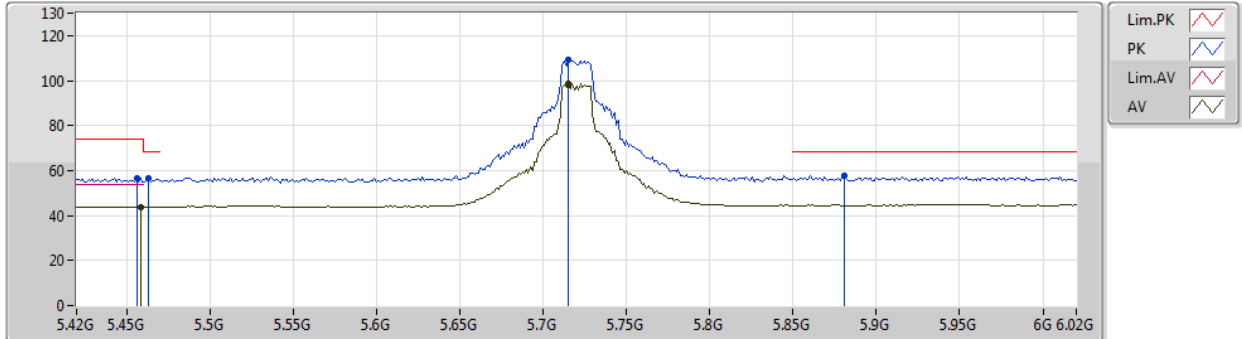
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 69  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.3914G	55.46	74.00	-18.54	13.48	3	Horizontal	75	1.65	-	41.98
AV	11.4058G	41.40	54.00	-12.60	13.45	3	Horizontal	75	1.65	-	27.95
PK	17.1004G	62.29	68.20	-5.91	17.45	3	Horizontal	307	2.03	-	44.84

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 83  
 06-K-3-10  
 FSP(100142)  
 R1

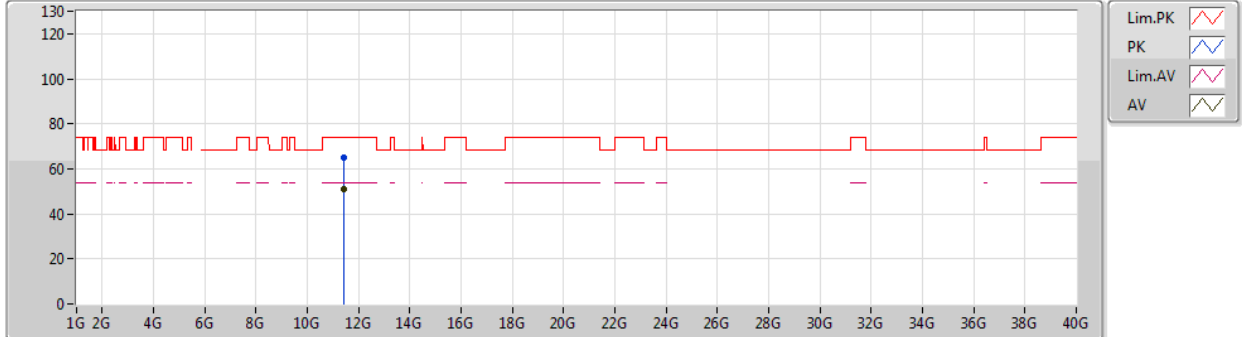
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.456G	56.43	74.00	-17.57	5.00	3	Vertical	183	1.00	-	51.43
AV	5.4584G	43.97	54.00	-10.03	5.02	3	Vertical	183	1.00	-	38.95
PK	5.4632G	56.63	68.20	-11.57	5.03	3	Vertical	183	1.00	-	51.60
PK	5.7152G	109.33	Inf	-Inf	5.11	3	Vertical	183	1.00	-	104.22
AV	5.7152G	98.70	Inf	-Inf	5.11	3	Vertical	183	1.00	-	93.59
PK	5.8808G	57.81	68.20	-10.39	5.73	3	Vertical	183	1.00	-	52.08



802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



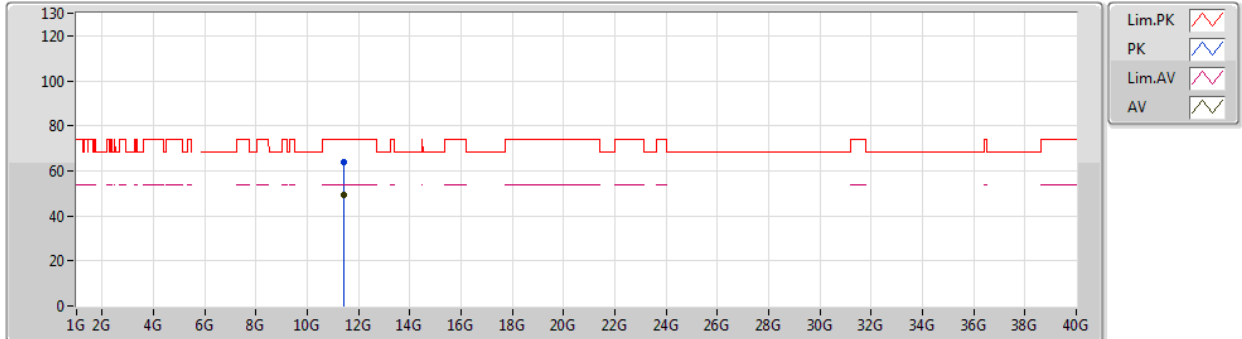
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 83  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.4428G	65.10	74.00	-8.90	13.39	3	Vertical	328	1.77	-	51.71
AV	11.44072G	50.96	54.00	-3.04	13.39	3	Vertical	328	1.77	-	37.57

802.11ac VHT20\_Nss1,(MCS0)\_2TX

17/08/2019

5720MHz Straddle 5.47-5.725GHz\_TX



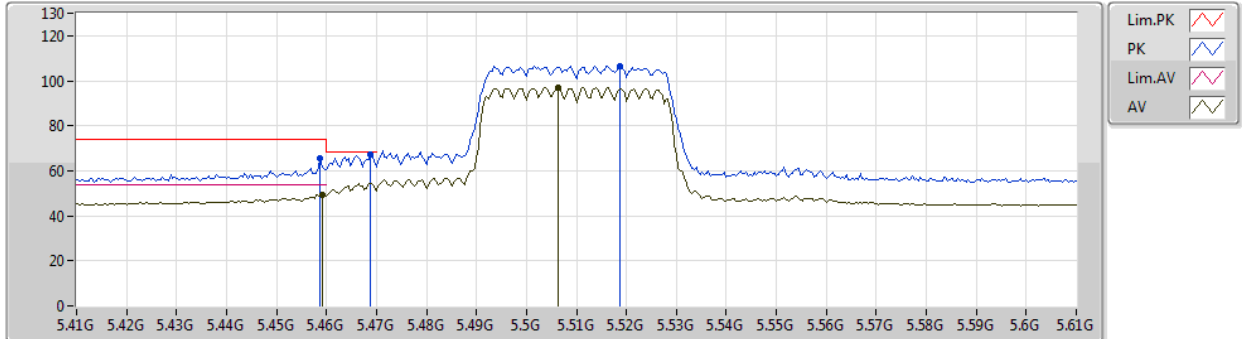
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 83  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.4404G	63.97	74.00	-10.03	13.39	3	Horizontal	28	1.88	-	50.58
AV	11.44016G	49.49	54.00	-4.51	13.39	3	Horizontal	28	1.88	-	36.10

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5510MHz\_TX



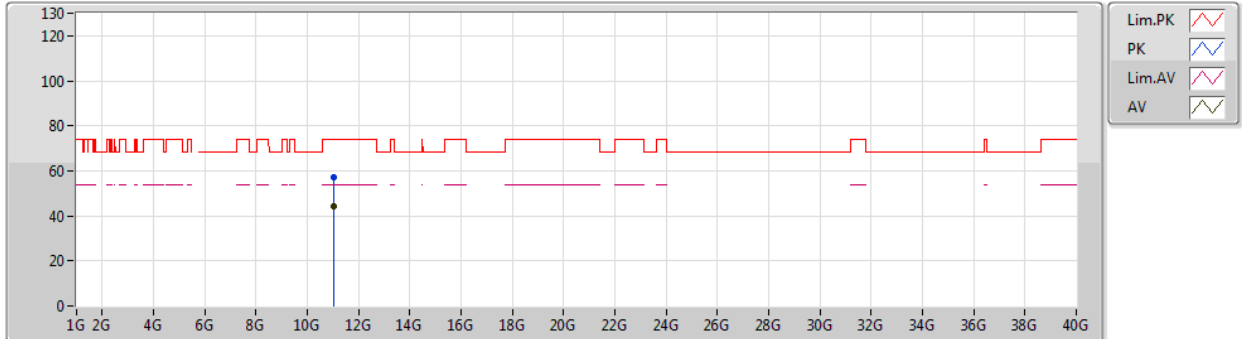
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 50  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4588G	65.58	74.00	-8.42	5.02	3	Vertical	23	2.32	-	60.56
AV	5.4592G	49.43	54.00	-4.57	5.02	3	Vertical	23	2.32	-	44.41
PK	5.4688G	67.19	68.20	-1.01	5.04	3	Vertical	23	2.32	-	62.15
PK	5.5188G	106.69	Inf	-Inf	5.06	3	Vertical	23	2.32	-	101.63
AV	5.5064G	97.05	Inf	-Inf	5.09	3	Vertical	23	2.32	-	91.96

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5510MHz\_TX



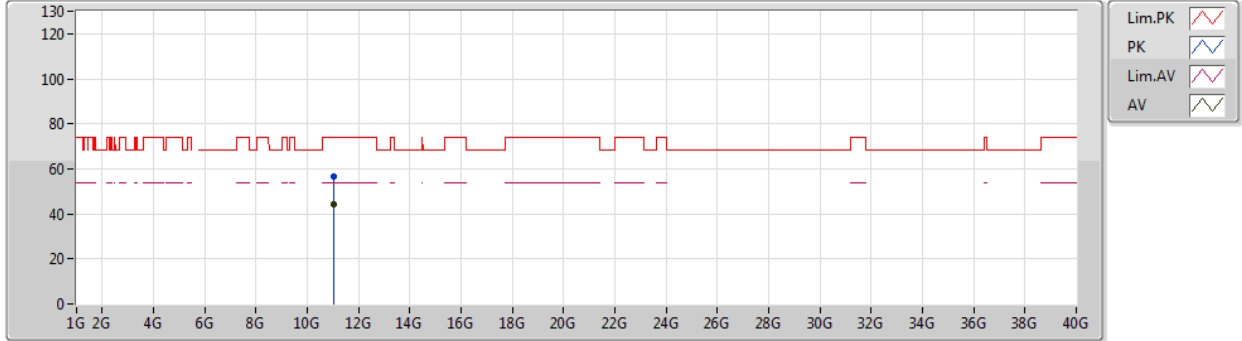
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 50  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.02102G	57.13	74.00	-16.87	14.12	3	Vertical	168	1.49	-	43.01
AV	11.01202G	44.24	54.00	-9.76	14.14	3	Vertical	168	1.49	-	30.10

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5510MHz\_TX



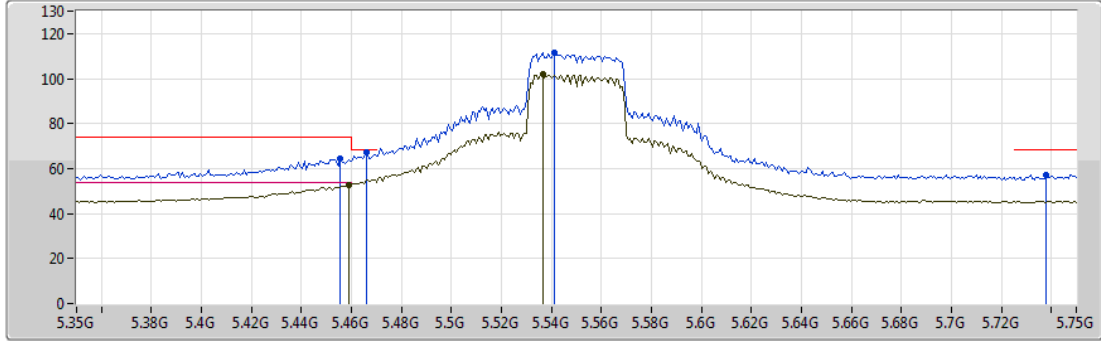
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 50  
 06-K-3  
 FSP(100142)  
 R1





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.02438G	56.63	74.00	-17.37	14.11	3	Horizontal	333	1.43	-	42.52
AV	11.01784G	44.17	54.00	-9.83	14.12	3	Horizontal	333	1.43	-	30.05

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5550MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

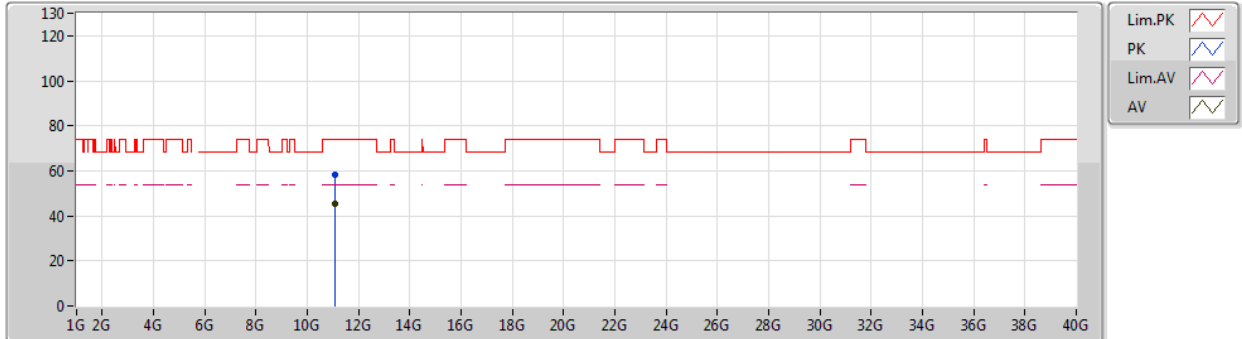
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 72  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4556G	64.39	74.00	-9.61	5.00	3	Vertical	24	2.25	-	59.39
AV	5.4588G	52.59	54.00	-1.41	5.02	3	Vertical	24	2.25	-	47.57
PK	5.466G	67.18	68.20	-1.02	5.03	3	Vertical	24	2.25	-	62.15
PK	5.5412G	111.43	Inf	-Inf	5.02	3	Vertical	24	2.25	-	106.41
AV	5.5364G	101.95	Inf	-Inf	5.04	3	Vertical	24	2.25	-	96.91
PK	5.738G	57.18	68.20	-11.02	5.21	3	Vertical	24	2.25	-	51.97

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5550MHz\_TX



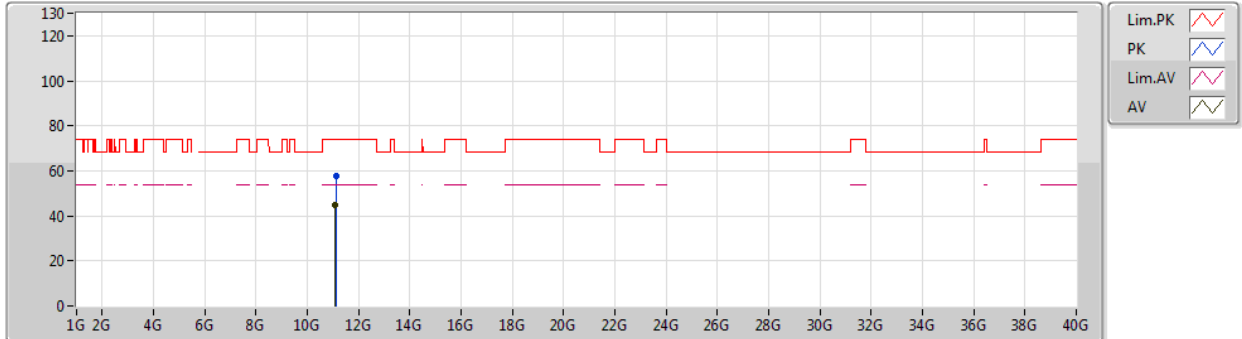
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 72  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.10112G	58.35	74.00	-15.65	13.98	3	Vertical	10	1.78	-	44.37
AV	11.096G	45.64	54.00	-8.36	13.99	3	Vertical	10	1.78	-	31.65

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5550MHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 72  
 06-K-3  
 FSP(100142)  
 R1

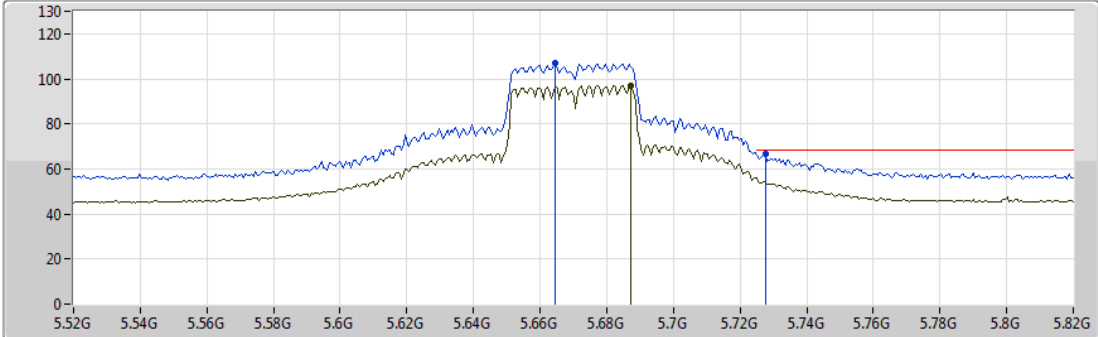
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.11152G	57.54	74.00	-16.46	13.96	3	Horizontal	353	2.14	-	43.58
AV	11.09904G	44.70	54.00	-9.30	13.98	3	Horizontal	353	2.14	-	30.72






802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5670MHz\_TX



Legend for the spectrum plot:

- Lim.PK 
- PK 
- Lim.AV 
- AV 

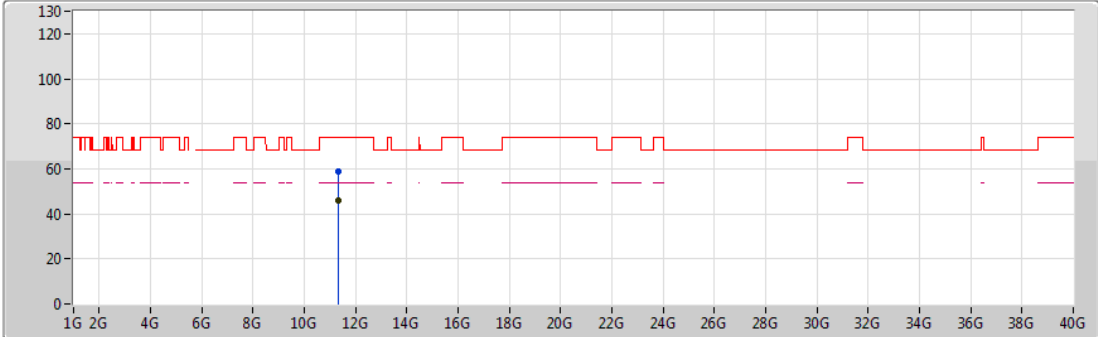
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 72  
 06-K-3-10  
 FSP(100142)  
 R1





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.6646G	106.97	Inf	-Inf	4.99	3	Vertical	173	1.01	-	101.98
AV	5.6874G	96.88	Inf	-Inf	5.04	3	Vertical	173	1.01	-	91.84
PK	5.7276G	66.73	68.20	-1.47	5.17	3	Vertical	173	1.01	-	61.56

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5670MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

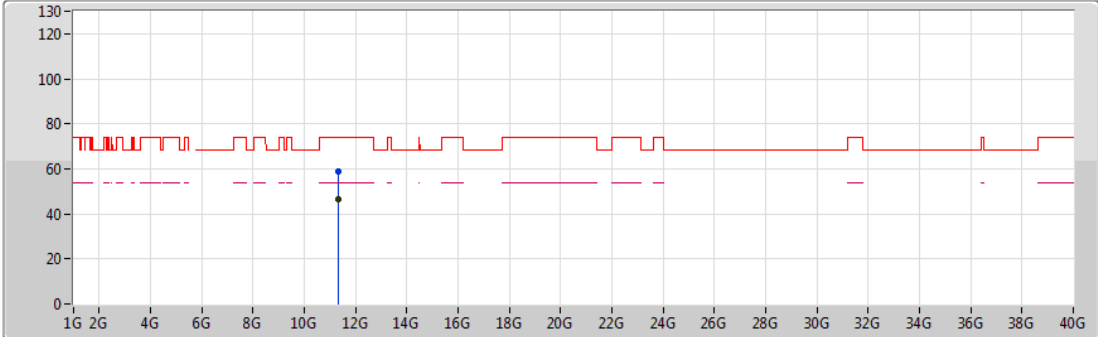
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 72  
 06-K-3  
 FSP(100142)  
 R1





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.34522G	58.72	74.00	-15.28	13.55	3	Vertical	44	1.87	-	45.17
AV	11.33244G	46.13	54.00	-7.87	13.57	3	Vertical	44	1.87	-	32.56

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5670MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV 

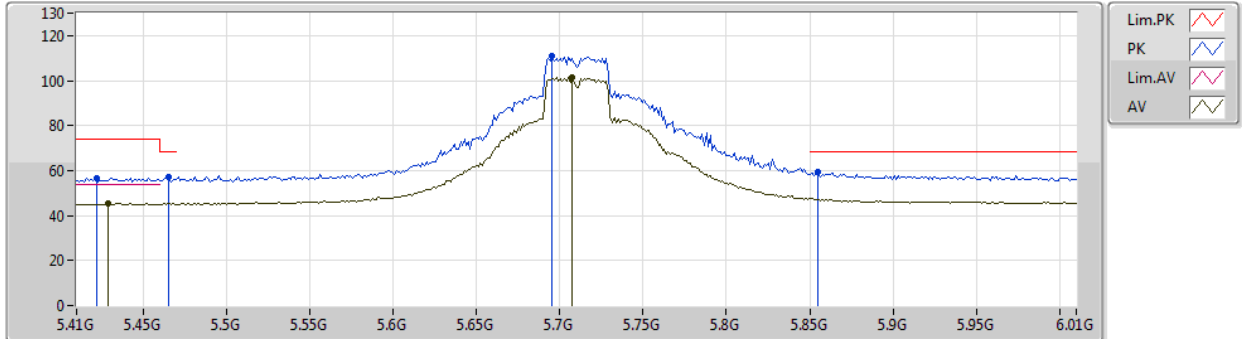
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 72  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.33988G	59.01	74.00	-14.99	13.56	3	Horizontal	353	1.95	-	45.45
AV	11.34006G	46.62	54.00	-7.38	13.56	3	Horizontal	353	1.95	-	33.06

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



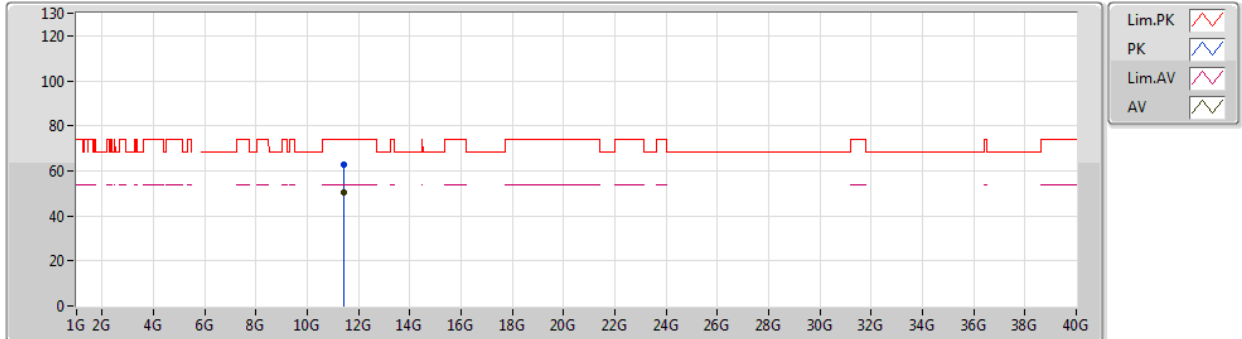
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.422G	56.65	74.00	-17.35	4.93	3	Vertical	39	2.42	-	51.72
AV	5.4292G	45.32	54.00	-8.68	4.96	3	Vertical	39	2.42	-	40.36
PK	5.4652G	57.08	68.20	-11.12	5.03	3	Vertical	39	2.42	-	52.05
PK	5.6956G	110.72	Inf	-Inf	5.05	3	Vertical	39	2.42	-	105.67
AV	5.7076G	101.52	Inf	-Inf	5.09	3	Vertical	39	2.42	-	96.43
PK	5.8552G	59.18	68.20	-9.02	5.66	3	Vertical	39	2.42	-	53.52

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



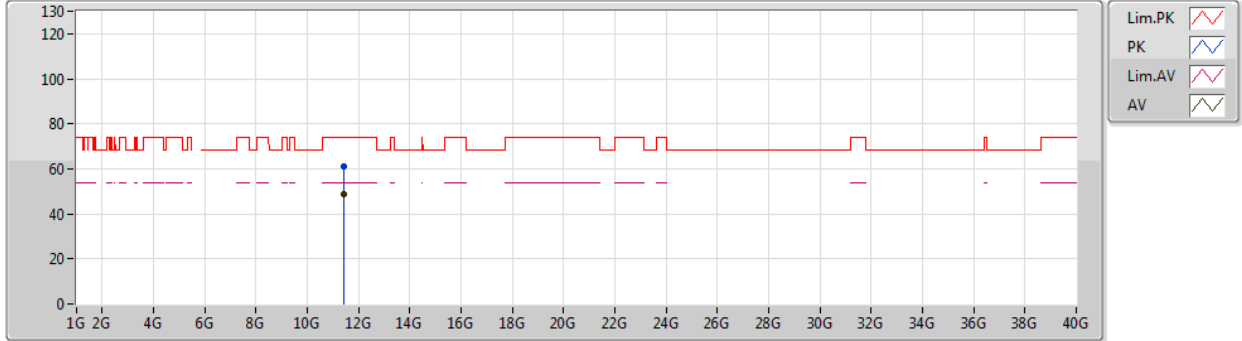
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.43808G	62.86	74.00	-11.14	13.39	3	Vertical	50	1.77	-	49.47
AV	11.41904G	50.44	54.00	-3.56	13.43	3	Vertical	50	1.77	-	37.01

802.11ac VHT40\_Nss1,(MCS0)\_2TX

15/08/2019

5710MHz Straddle 5.47-5.725GHz\_TX



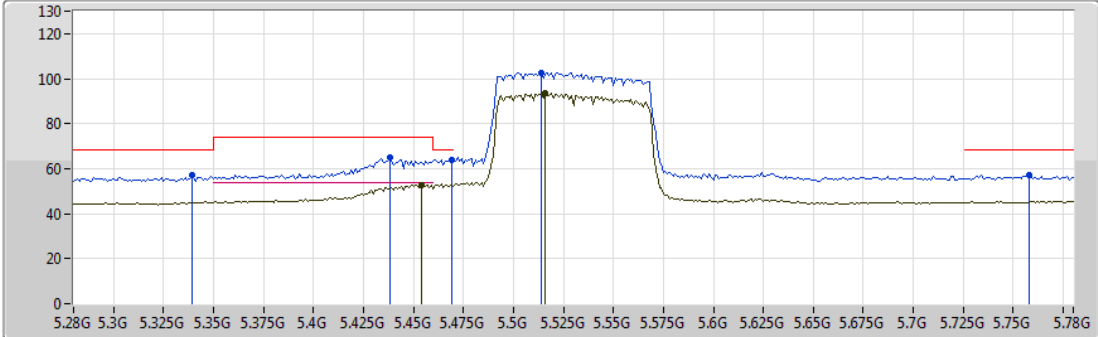
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.42016G	61.04	74.00	-12.96	13.43	3	Horizontal	47	1.87	-	47.61
AV	11.42024G	48.96	54.00	-5.04	13.43	3	Horizontal	47	1.87	-	35.53

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5530MHz\_TX



Legend for the spectrum plot:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Magenta line)
- AV (Green line)

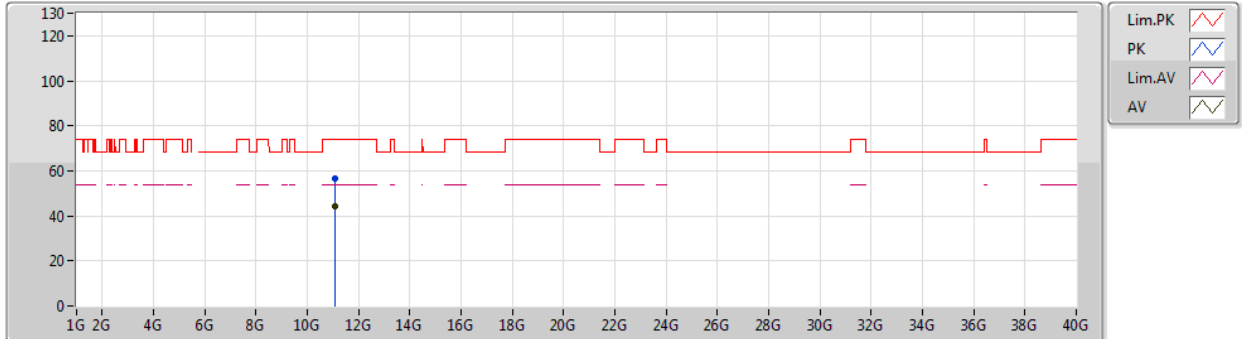
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 51  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.339G	57.42	68.20	-10.78	4.61	3	Vertical	23	2.30	-	52.81
PK	5.438G	64.82	74.00	-9.18	4.97	3	Vertical	23	2.30	-	59.85
AV	5.454G	52.88	54.00	-1.12	5.00	3	Vertical	23	2.30	-	47.88
PK	5.469G	63.97	68.20	-4.23	5.04	3	Vertical	23	2.30	-	58.93
PK	5.514G	102.65	Inf	-Inf	5.07	3	Vertical	23	2.30	-	97.58
AV	5.516G	93.77	Inf	-Inf	5.07	3	Vertical	23	2.30	-	88.70
PK	5.758G	57.29	68.20	-10.91	5.30	3	Vertical	23	2.30	-	51.99

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5530MHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 51  
 06-K-3  
 FSP(100142)  
 R1

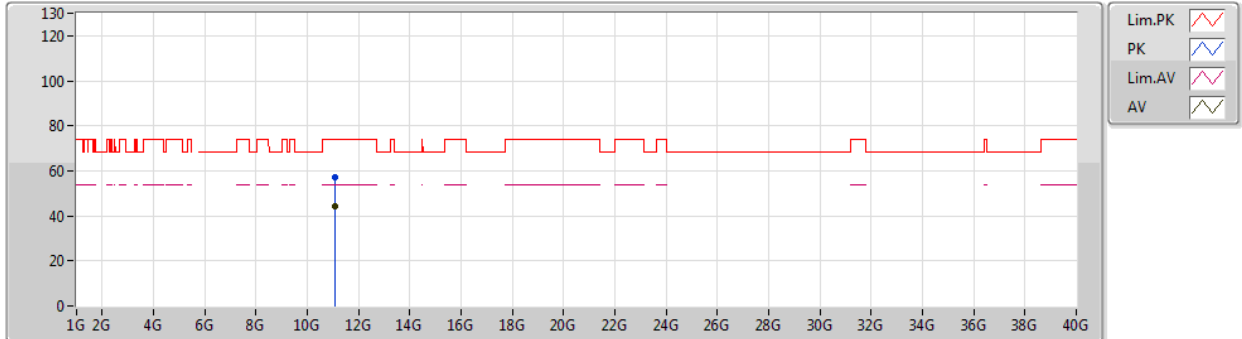
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.06546G	56.68	74.00	-17.32	14.04	3	Vertical	137	1.35	-	42.64
AV	11.06942G	44.11	54.00	-9.89	14.04	3	Vertical	137	1.35	-	30.07



802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5530MHz\_TX



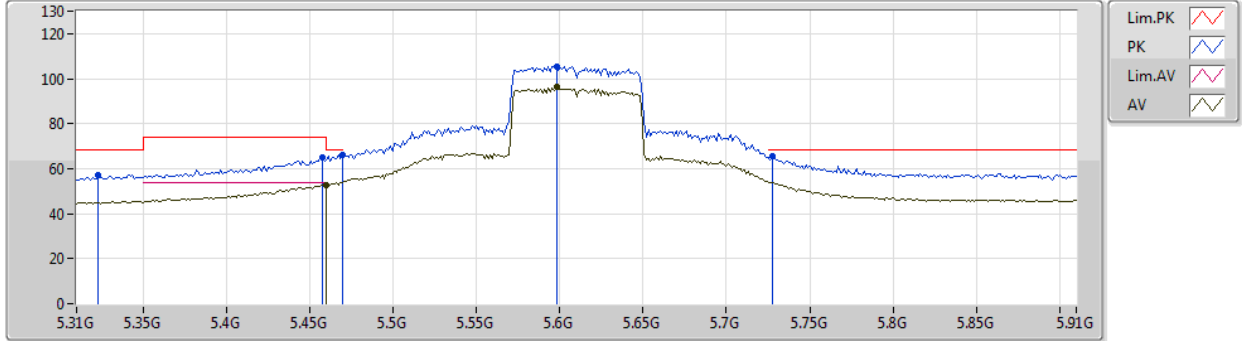
EUT\_X\_2TX\_Dipole(WN9722A-DM)  
 Setting 51  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.06198G	57.04	74.00	-16.96	14.05	3	Horizontal	76	2.81	-	42.99
AV	11.0622G	44.06	54.00	-9.94	14.05	3	Horizontal	76	2.81	-	30.01

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5610MHz\_TX



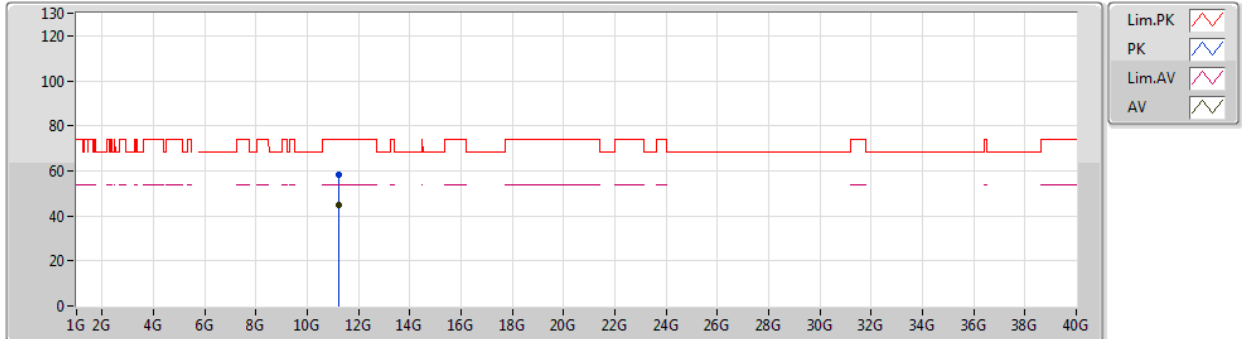
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 70  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.3232G	56.98	68.20	-11.22	4.53	3	Vertical	31	2.22	-	52.45
PK	5.4576G	65.22	74.00	-8.78	5.01	3	Vertical	31	2.22	-	60.21
AV	5.46G	52.79	54.00	-1.21	5.02	3	Vertical	31	2.22	-	47.77
PK	5.4696G	66.03	68.20	-2.17	5.04	3	Vertical	31	2.22	-	60.99
PK	5.598G	105.57	Inf	-Inf	4.91	3	Vertical	31	2.22	-	100.66
AV	5.598G	96.13	Inf	-Inf	4.91	3	Vertical	31	2.22	-	91.22
PK	5.7276G	65.37	68.20	-2.83	5.17	3	Vertical	31	2.22	-	60.20

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5610MHz\_TX



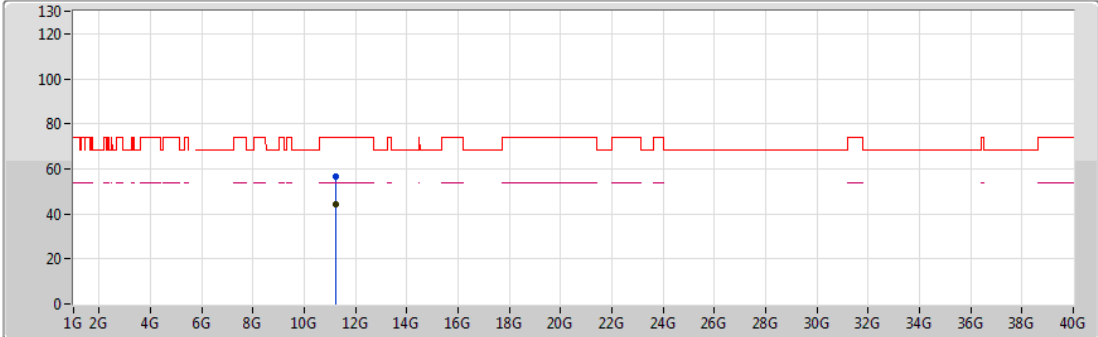
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 70  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.22846G	58.10	74.00	-15.90	13.76	3	Vertical	125	2.31	-	44.34
AV	11.21268G	44.73	54.00	-9.27	13.79	3	Vertical	125	2.31	-	30.94

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5610MHz\_TX



Legend for the plot:

- Lim.PK (Red dashed line)
- PK (Blue line with dot)
- Lim.AV (Magenta dashed line)
- AV (Black line with dot)

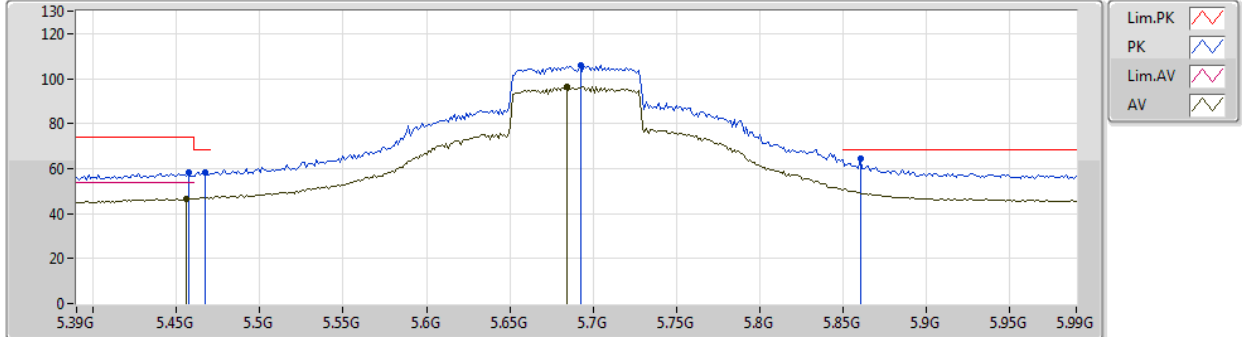
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 70  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.20716G	56.39	74.00	-17.61	13.80	3	Horizontal	113	2.10	-	42.59
AV	11.2059G	44.07	54.00	-9.93	13.80	3	Horizontal	113	2.10	-	30.27

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



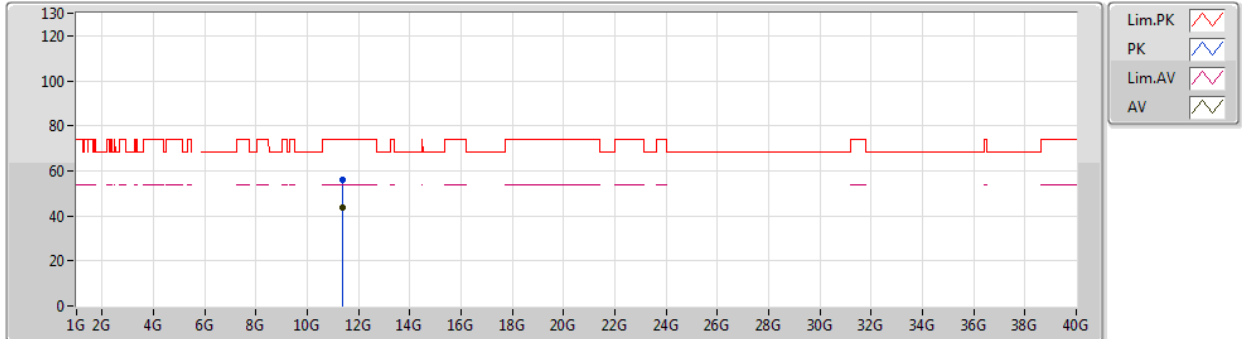
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3-10  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	5.4572G	58.18	74.00	-15.82	5.00	3	Vertical	171	1.02	-	53.18
AV	5.456G	46.60	54.00	-7.40	5.00	3	Vertical	171	1.02	-	41.60
PK	5.4668G	58.41	68.20	-9.79	5.03	3	Vertical	171	1.02	-	53.38
PK	5.6924G	105.97	Inf	-Inf	5.03	3	Vertical	171	1.02	-	100.94
AV	5.684G	96.29	Inf	-Inf	5.03	3	Vertical	171	1.02	-	91.26
PK	5.8604G	64.19	68.20	-4.01	5.67	3	Vertical	171	1.02	-	58.52

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



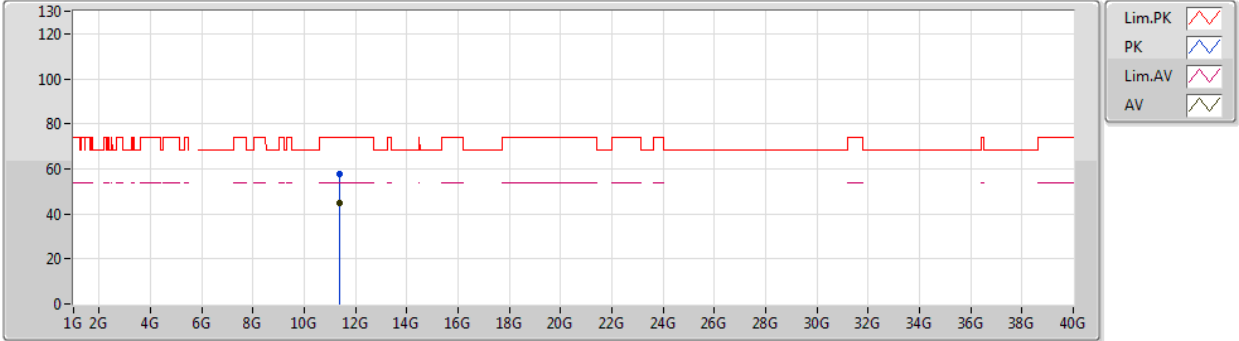
EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.37544G	56.31	74.00	-17.69	13.51	3	Vertical	17	1.48	-	42.80
AV	11.3774G	43.73	54.00	-10.27	13.50	3	Vertical	17	1.48	-	30.23

802.11ac VHT80\_Nss1,(MCS0)\_2TX

15/08/2019

5690MHz Straddle 5.47-5.725GHz\_TX



EUT X\_2TX\_Dipole(WN9722A-DM)  
 Setting 100  
 06-K-3  
 FSP(100142)  
 R1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	11.38G	57.78	74.00	-16.22	13.50	3	Horizontal	46	1.99	-	44.28
AV	11.38028G	45.04	54.00	-8.96	13.50	3	Horizontal	46	1.99	-	31.54