



# FCC Test Report

Equipment : cnPilot E501S Outdoor  
Brand Name : Cambium Networks  
Model No. : cnPilot E501S Outdoor  
FCC ID : Z8H89FT0029  
Standard : 47 CFR FCC Part 15.407  
Operating Band : 5250 MHz – 5350 MHz  
5470 MHz – 5725 MHz  
Applicant : Cambium Networks Inc.  
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008,  
USA  
Manufacturer : Cambium Networks Inc.  
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008,  
USA  
Function :  Outdoor;  Indoor;  Fixed P2P  
 Client  
TPC Function : TPC

The product sample received on Feb. 15, 2017 and completely tested on Mar. 06, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

  
Cliff Chang  
SPORTON INTERNATIONAL INC.





# Table of Contents

**1 GENERAL DESCRIPTION .....5**

1.1 Information.....5

1.2 Testing Applied Standards .....7

1.3 Testing Location Information .....7

1.4 Measurement Uncertainty .....8

**2 TEST CONFIGURATION OF EUT .....9**

2.1 Test Channel Mode .....9

2.2 The Worst Case Measurement Configuration.....10

2.3 EUT Operation during Test .....10

2.4 Accessories .....10

2.5 Support Equipment.....10

2.6 Test Setup Diagram .....11

**3 TRANSMITTER TEST RESULT .....12**

3.1 Emission Bandwidth .....12

3.2 Maximum Conducted Output Power .....13

3.3 Peak Power Spectral Density.....15

3.4 Unwanted Emissions.....18

3.5 Frequency Stability.....21

**4 TEST EQUIPMENT AND CALIBRATION DATA .....22**

**APPENDIX A. TEST RESULTS OF EMISSION BANDWIDTH**

**APPENDIX B. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER**

**APPENDIX C. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY**

**APPENDIX D. TEST RESULTS OF UNWANTED EMISSIONS**

**APPENDIX E. TEST RESULTS OF FREQUENCY STABILITY**

**APPENDIX F. TEST PHOTOS**

**PHOTOGRAPHS OF EUT V01**



## Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.407(a)	Emission Bandwidth	Complied
3.2	15.407(a)	Maximum Conducted Output Power	Complied
3.3	15.407(a)	Peak Power Spectral Density	Complied
3.4	15.407(b)	Unwanted Emissions	Complied
3.5	15.407(g)	Frequency Stability	Complied



### **Revision History**

<b>Report No.</b>	<b>Version</b>	<b>Description</b>	<b>Issued Date</b>
FR721518-01	Rev. 01	Initial issue of report	May 19, 2017



# 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		5500-5700	100-140 [11]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]

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	802.11ac 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
5.47-5.725GHz	802.11a	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and 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**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
						2.4GHz	5GHz
1	1, 2	Cambium	A005332	Embedded Ant.	I-PEX	10.5	-
2	1, 2	Cambium	A005332	Embedded Ant.	I-PEX	-	13

Note: The EUT has two antennas.

**<For 2.4GHz Band>**

**For IEEE 802.11b/g/n mode (2TX/2RX)**

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

Port 1, Port 2 could transmit/receive simultaneously.

**<For 5GHz Band>**

**For IEEE 802.11a/n/ac mode (2TX/2RX)**

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

Port 1, Port 2 could transmit/receive simultaneously.

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)
802.11a	0.957	0.191
802.11ac VHT20	0.946	0.241
802.11ac VHT40	0.925	0.339
802.11ac VHT80	0.878	0.565

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From PoE		
<b>Beamforming Function</b>	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	
<b>Weather Band</b>	<input checked="" type="checkbox"/> With 5600~5650MHz	<input type="checkbox"/> Without 5600~5650MHz	

**1.1.5 Table for Class III Change**

This product is an extension of original one reported under Sporton project number: FR721518

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

Modifications	Performance Checking
Adding 5GHz band 2 and band 3 (5250~5350 MHz, 5470~5725 MHz) for this device.	<ol style="list-style-type: none"> <li>1. Emission Bandwidth.</li> <li>2. Maximum Conducted Output Power.</li> <li>3. Peak Power Spectral Density.</li> <li>4. Unwanted Emissions above 1GHz.</li> <li>5. Frequency Stability.</li> </ol>



### 1.2 Testing Applied 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 v01r03
- ◆ FCC KDB 644545 D03 v01
- ◆ FCC KDB 662911 D01 v02r01

### 1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
<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	TH01-CB	Serway Lin	25°C / 56%	Feb. 18, 2017~ Mar. 06, 2017
Radiated	03CH01-CB	Justin Lin/Welson Chen	22°C / 54%	Feb. 15, 2017~ Feb. 23, 2017

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



### 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Radiated Emission (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%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	$9.74 \times 10^{-8}$	Confidence levels of 95%
Frequency Stability	$6.06 \times 10^{-8}$	Confidence levels of 95%





## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
802.11a_(6Mbps)_2TX	-
5260MHz	11.5
5300MHz	11.5
5320MHz	11.5
5500MHz	11
5580MHz	11.5
5700MHz	12
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5260MHz	11.5
5300MHz	11.5
5320MHz	11.5
5500MHz	11
5580MHz	11.5
5700MHz	12
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5270MHz	14.5
5310MHz	14.5
5510MHz	14.5
5550MHz	14.5
5670MHz	14.5
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5290MHz	10
5530MHz	10
5610MHz	15

**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 Frequency Stability
<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 Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 5GHz +WLAN 2.4GHz
Refer to Sporton Test Report No.: FA721518-01 for Co-location RF Exposure Evaluation.	

Note 1: The EUT can only be used in Y-axis position.

Note 2: The PoE below is for measurement only, would not be marked.

Support Unit	Brand	Model	FCC ID
PoE	Cambium Networks	NET-P30-56IN	DoC

## 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

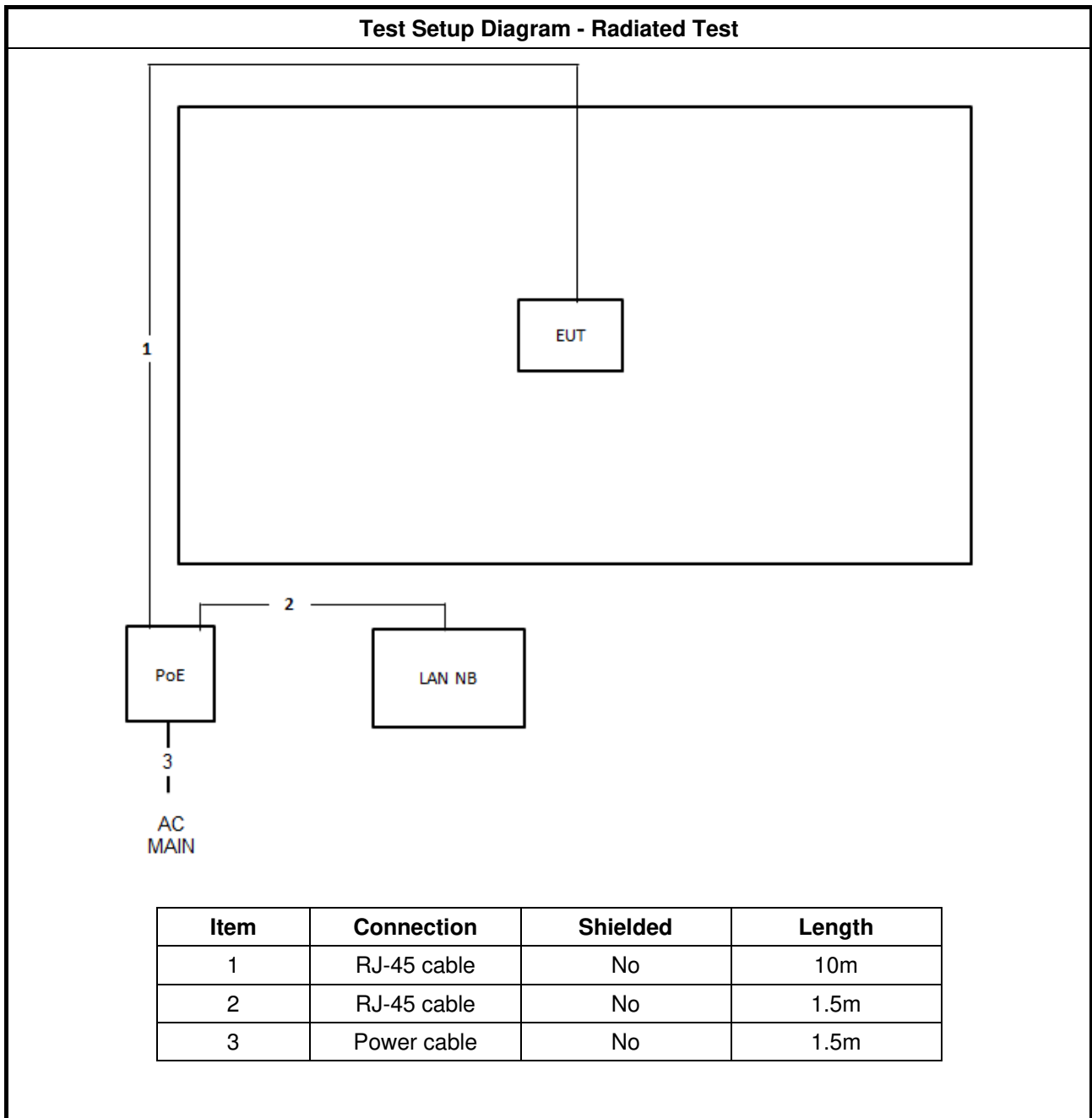
## 2.4 Accessories

Wall-mounted rack (1)*1
Wall-mounted rack (2)*2 (Set)

## 2.5 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	PoE	Cambium Networks	NET-P30-56IN	DoC

## 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 type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 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 $\geq$ 500kHz.

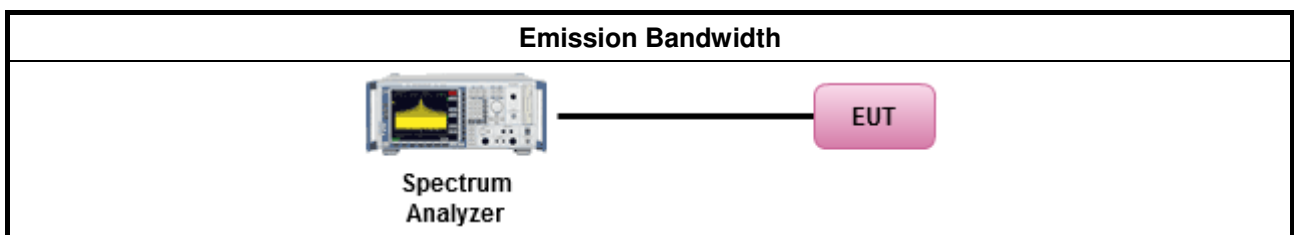
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> <li>For the emission bandwidth shall be measured using one of the options below:           <table border="1" data-bbox="204 1429 1276 1572"> <tr> <td><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> </li> </ul>		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input checked="" type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						

##### 3.1.4 Test Setup



##### 3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



### 3.2 Maximum 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 125</math>mW [21dBm]</li> <li>▪ Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>▪ Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul>
<input 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 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 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .	
<input type="checkbox"/> For the 5.725-5.85 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.	

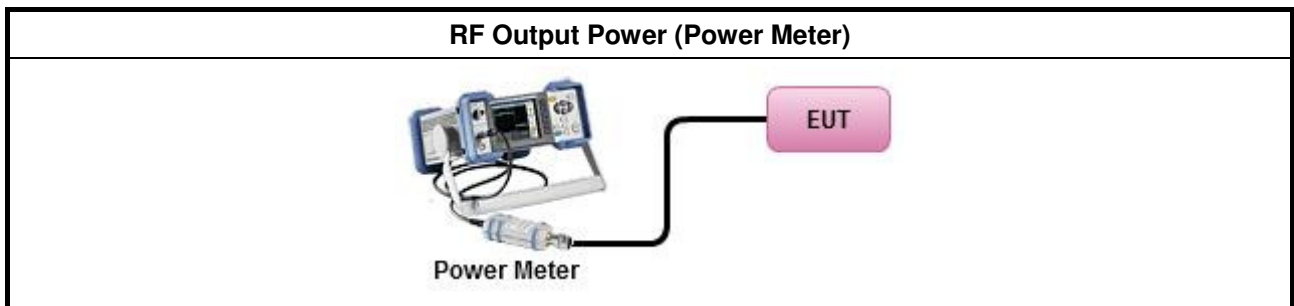
### 3.2.2 Measuring Instruments

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 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



### 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:	
	<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 type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) $\leq 4$ dBm/MHz and 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 and the e.i.r.p. peak power spectral density (PPSD) $\leq 17$ dBm/MHz.	
	<ul style="list-style-type: none"> <li>▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where <math>\theta</math> is the angle above the local horizontal plane (of the Earth) as shown below:            -13 dBW/MHz for <math>0^\circ \leq \theta &lt; 8^\circ</math> ; -13 - 0.716 (<math>\theta</math>-8) dBW/MHz for <math>8^\circ \leq \theta &lt; 40^\circ</math>            -35.9 - 1.22 (<math>\theta</math>-40) dBW/MHz for <math>40^\circ \leq \theta \leq 45^\circ</math> ; -42 dBW/MHz for <math>\theta &gt; 45^\circ</math></li> </ul>
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 17$ dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<p><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</p> <p><b>G<sub>TX</sub></b> = the maximum transmitting antenna directional gain in dBi.</p>	

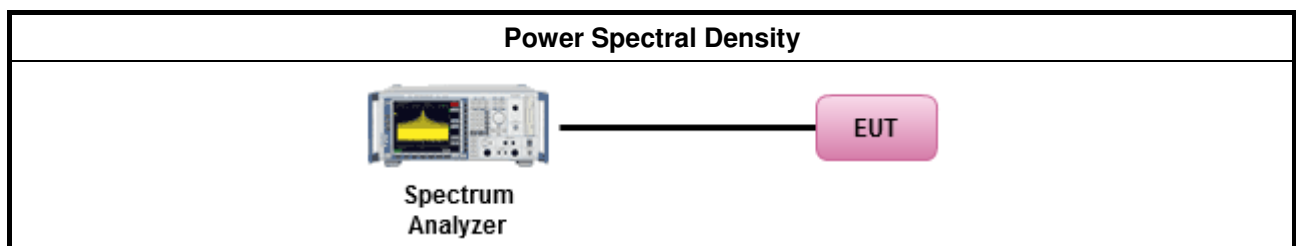
#### 3.3.2 Measuring Instruments

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 Radiated 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

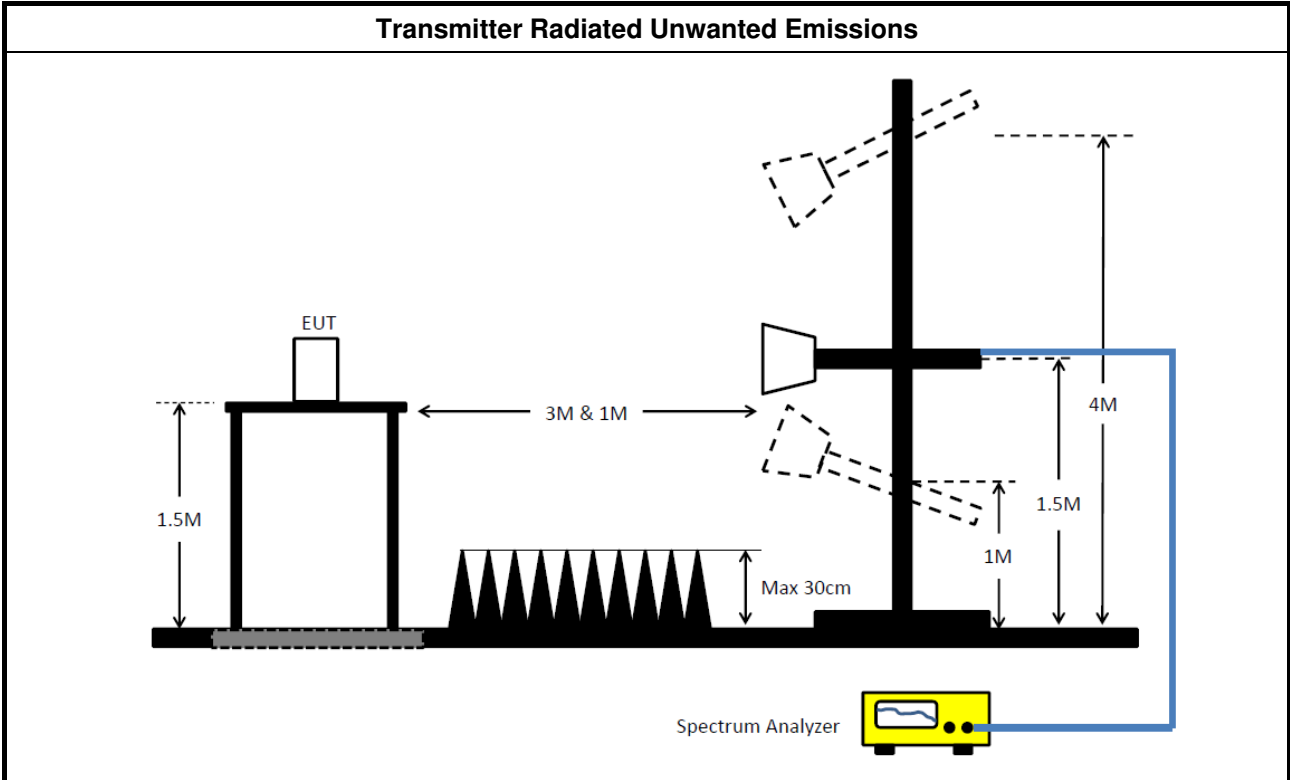
### 3.4.2 Measuring Instruments

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 <math>\geq</math> 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 H)2) for unwanted emissions into non-restricted bands.</li> <li>▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.                   <ul style="list-style-type: none"> <li><input type="checkbox"/> Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW <math>\geq</math> 1/T, where T is pulse time.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.2 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 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

### 3.5 Frequency Stability

#### 3.5.1 Frequency Stability Limit

Frequency Stability Limit
<b>UNII Devices</b>
<ul style="list-style-type: none"> <li>In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.</li> </ul>
<b>LE-LAN Devices</b>
<ul style="list-style-type: none"> <li>N/A</li> </ul>
<b>IEEE Std. 802.11</b>
<ul style="list-style-type: none"> <li>The transmitter center frequency tolerance shall be <math>\pm 20</math> ppm maximum for the 5 GHz band and <math>\pm 25</math> ppm maximum for the 2.4 GHz band.</li> </ul>

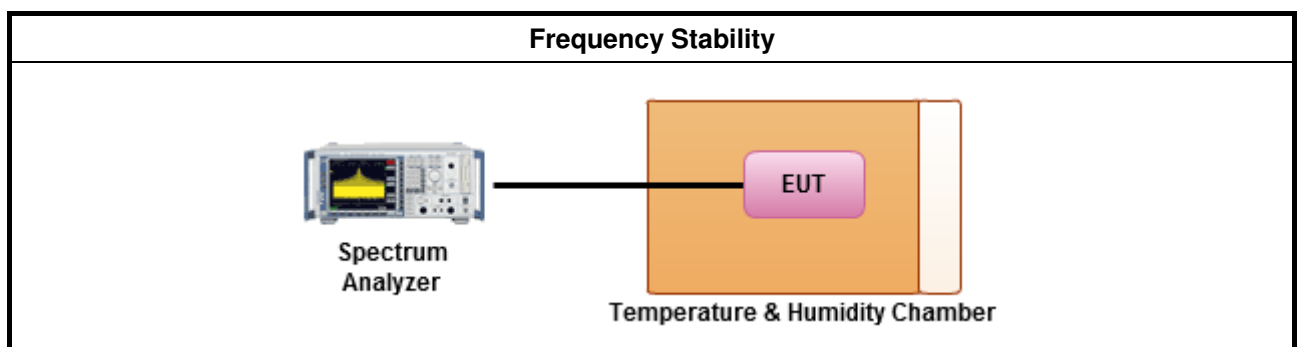
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.8 for frequency stability tests</li> </ul>
<ul style="list-style-type: none"> <li>Frequency stability with respect to ambient temperature</li> </ul>
<ul style="list-style-type: none"> <li>Frequency stability when varying supply voltage</li> </ul>
<ul style="list-style-type: none"> <li>Extreme temperature is <math>-40^{\circ}\text{C}\sim 70^{\circ}\text{C}</math>.</li> </ul>

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Frequency Stability

Refer as Appendix E



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 21, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11a_(6Mbps)_2TX	-	-	-	-	-
5.25-5.35GHz	22.65M	16.542M	16M5D1D	21.45M	16.442M
5.47-5.725GHz	22.9M	16.517M	16M5D1D	21.925M	16.467M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-
5.25-5.35GHz	24.35M	17.716M	17M7D1D	22.675M	17.691M
5.47-5.725GHz	23.6M	17.716M	17M7D1D	22.875M	17.691M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-
5.25-5.35GHz	45.25M	36.282M	36M3D1D	43.15M	36.232M
5.47-5.725GHz	45.8M	36.282M	36M3D1D	44M	36.182M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-
5.25-5.35GHz	86.8M	75.862M	75M9D1D	86M	75.562M
5.47-5.725GHz	87.3M	75.962M	76M0D1D	85.8M	75.662M

**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;

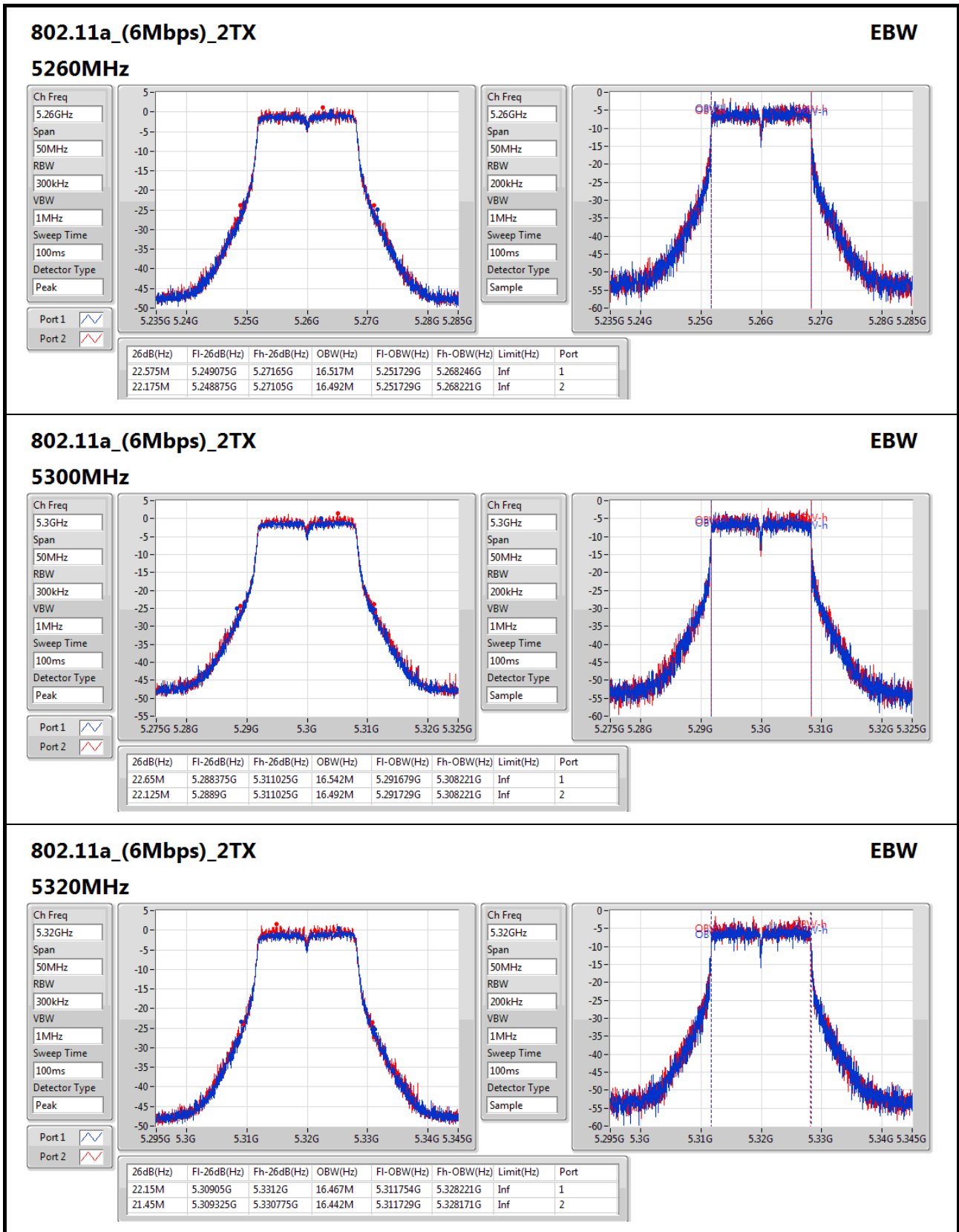


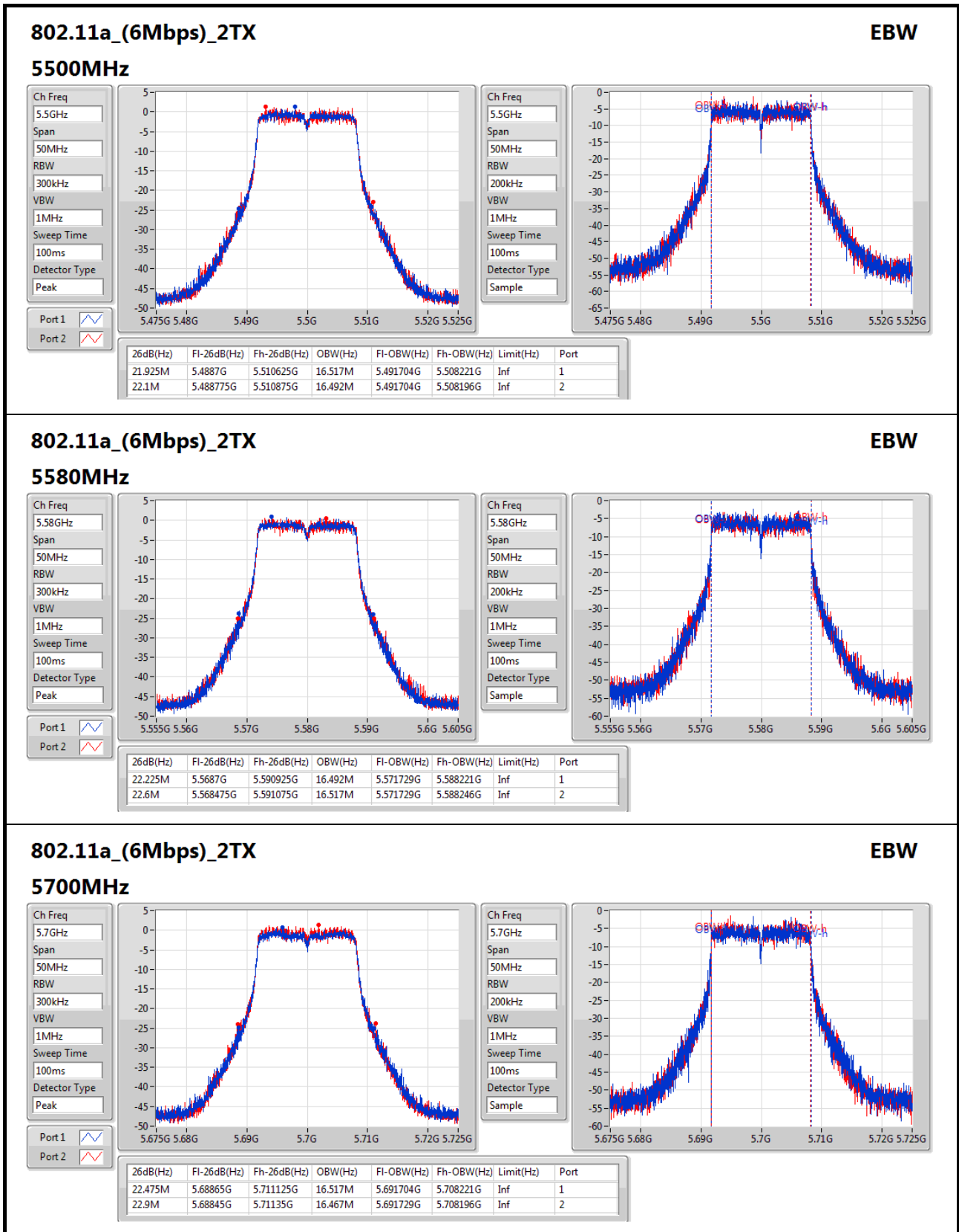
**Result**

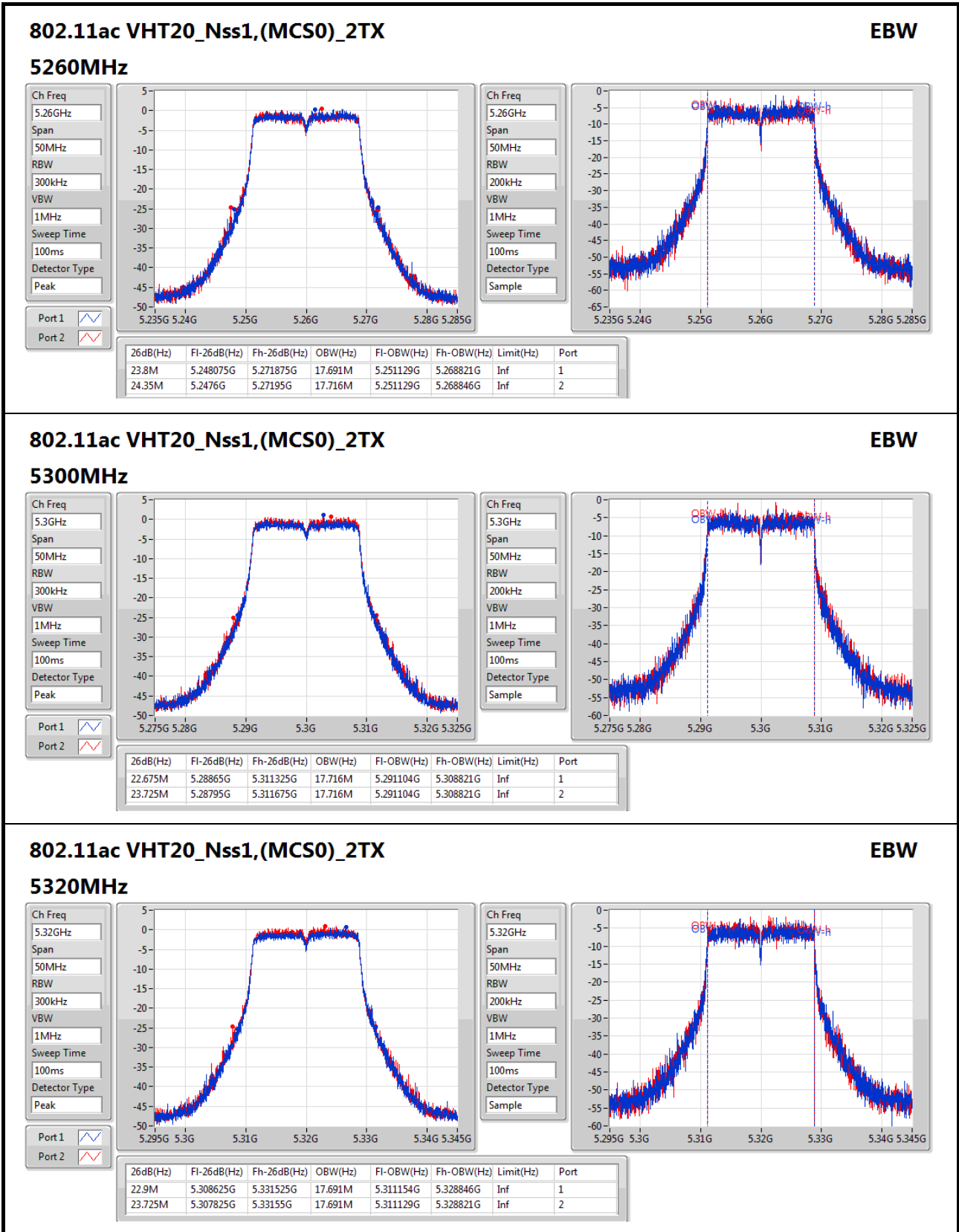
Mode	Result	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_(6Mbps)_2TX	-	-	-	-	-
5260MHz	Pass	22.575M	16.517M	22.175M	16.492M
5300MHz	Pass	22.65M	16.542M	22.125M	16.492M
5320MHz	Pass	22.15M	16.467M	21.45M	16.442M
5500MHz	Pass	21.925M	16.517M	22.1M	16.492M
5580MHz	Pass	22.225M	16.492M	22.6M	16.517M
5700MHz	Pass	22.475M	16.517M	22.9M	16.467M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-
5260MHz	Pass	23.8M	17.691M	24.35M	17.716M
5300MHz	Pass	22.675M	17.716M	23.725M	17.716M
5320MHz	Pass	22.9M	17.691M	23.725M	17.691M
5500MHz	Pass	23.475M	17.716M	23.5M	17.691M
5580MHz	Pass	23.6M	17.716M	23.5M	17.691M
5700MHz	Pass	22.875M	17.691M	22.95M	17.691M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-
5270MHz	Pass	43.15M	36.232M	44.8M	36.232M
5310MHz	Pass	45.25M	36.282M	44.9M	36.282M
5510MHz	Pass	45.8M	36.182M	45.1M	36.282M
5550MHz	Pass	45.25M	36.282M	44.2M	36.282M
5670MHz	Pass	45M	36.182M	44M	36.182M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-
5290MHz	Pass	86.8M	75.562M	86M	75.862M
5530MHz	Pass	87.1M	75.962M	87.3M	75.662M
5610MHz	Pass	85.8M	75.762M	86.4M	75.662M

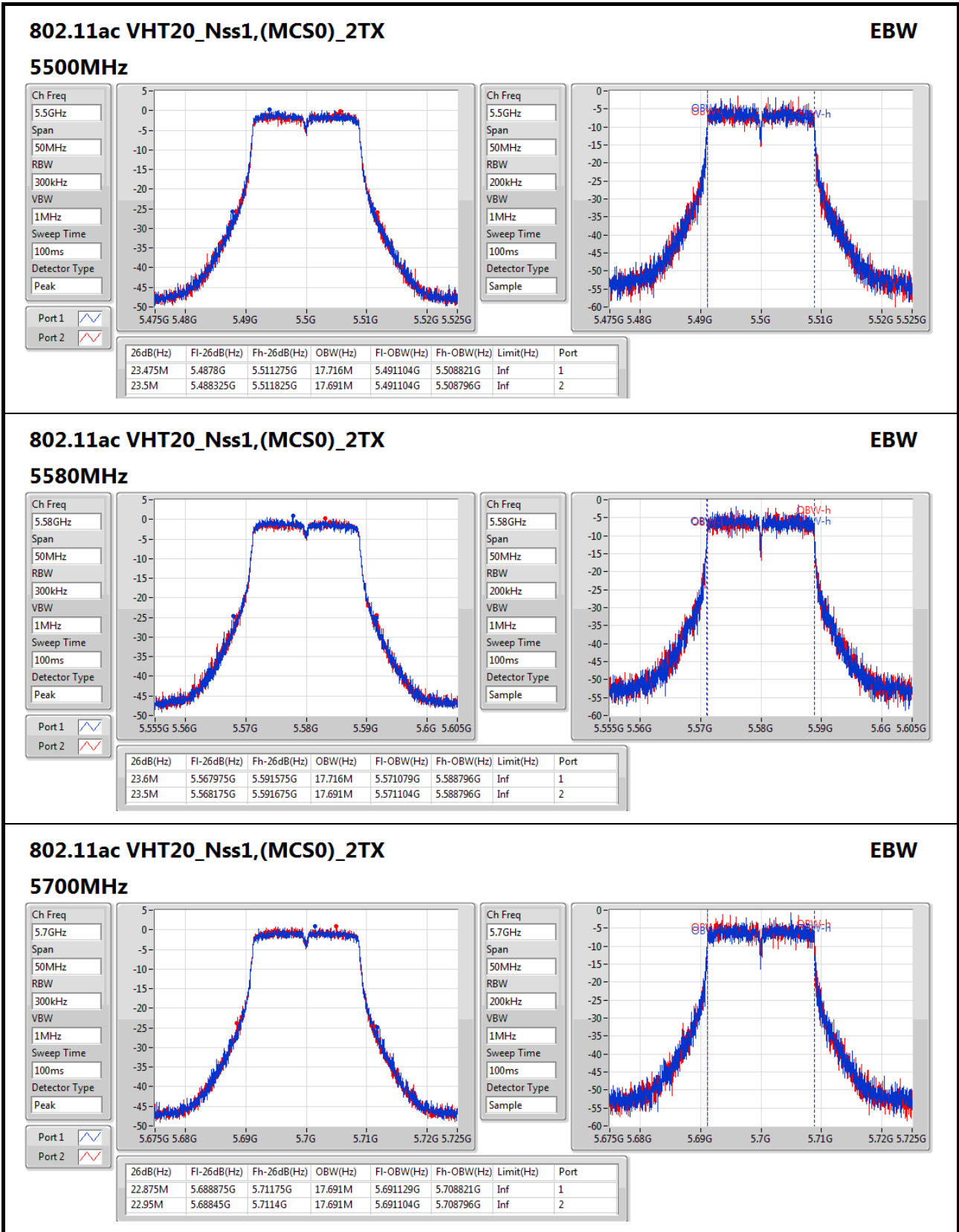
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
**Port X-OBW** = Port X 99% occupied bandwidth;

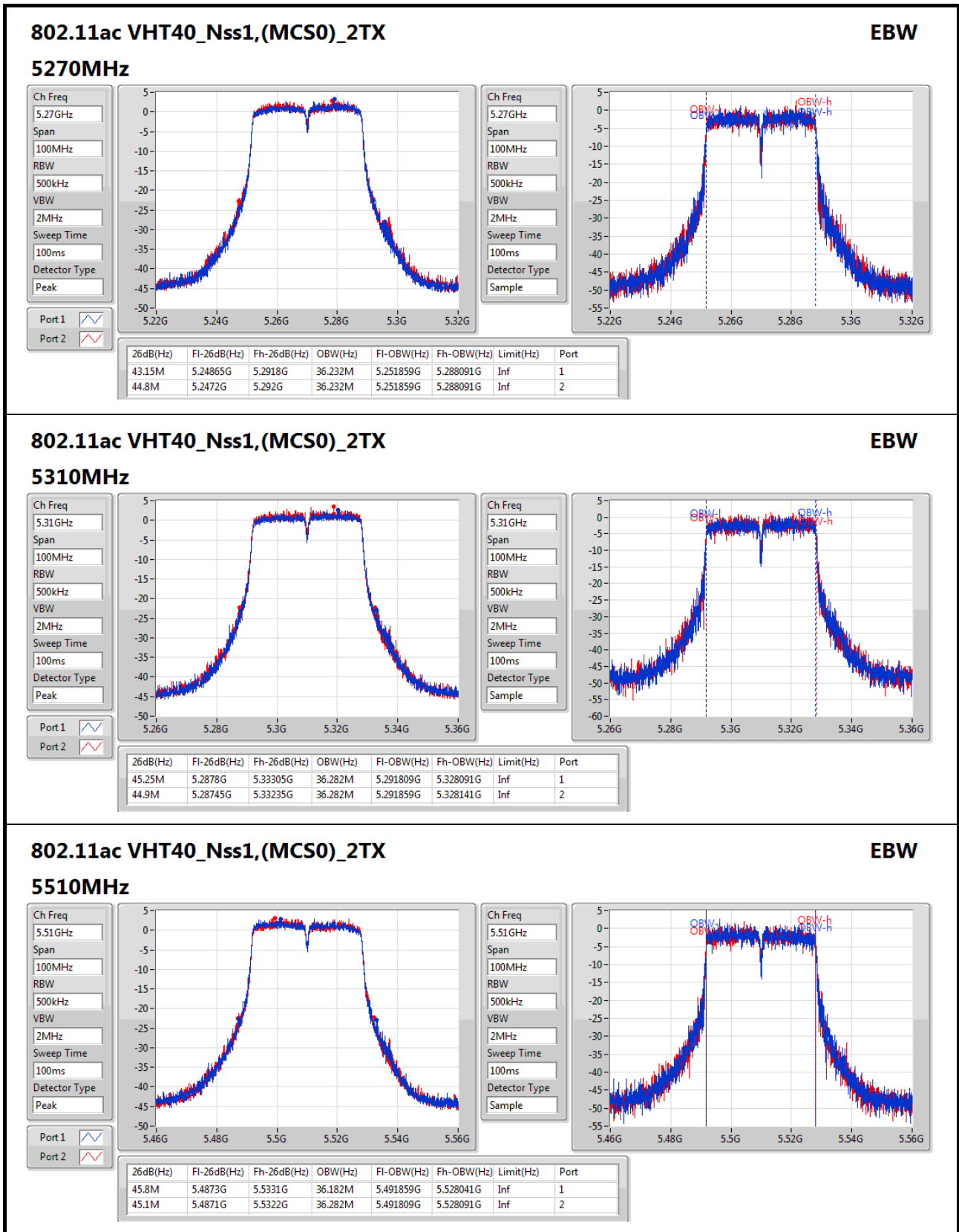


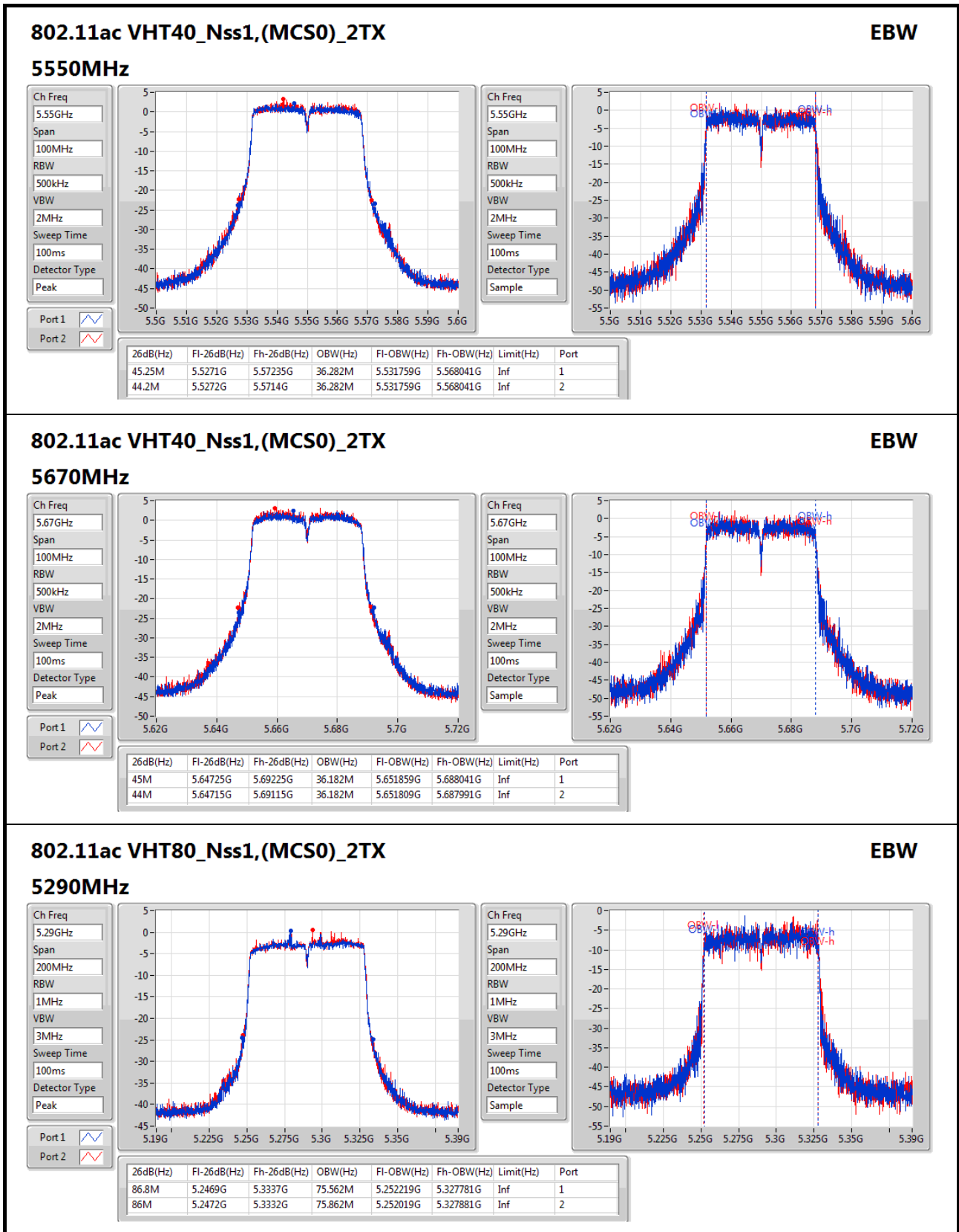


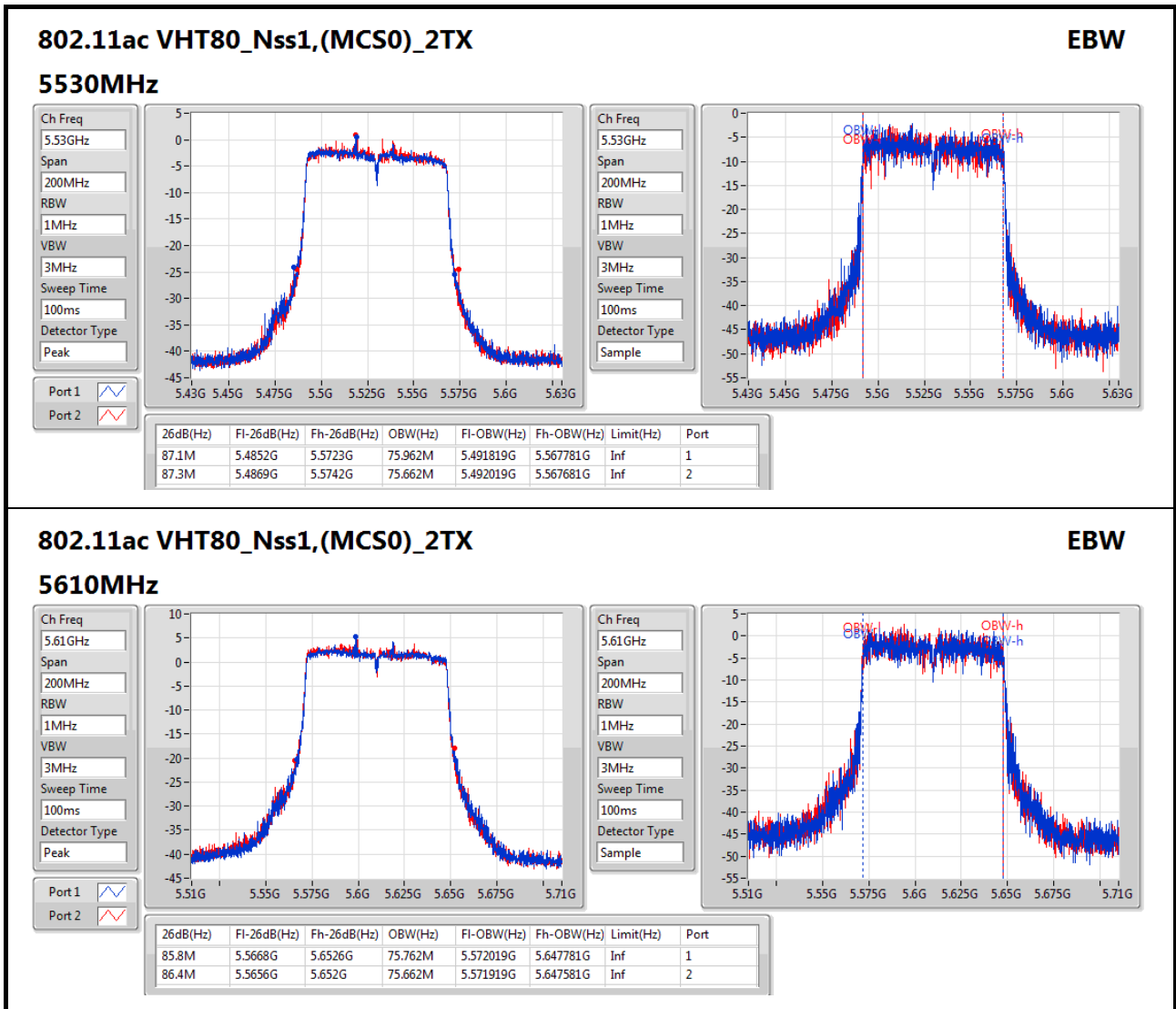














**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
802.11a_(6Mbps)_2TX	-	-	-	-
5.25-5.35GHz	14.25	0.02661	27.25	0.53088
5.47-5.725GHz	14.42	0.02767	27.42	0.55208
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	14.31	0.02698	27.31	0.53827
5.47-5.725GHz	14.40	0.02754	27.40	0.54954
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	16.93	0.04932	29.93	0.98401
5.47-5.725GHz	16.97	0.04977	29.97	0.99312
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-
5.25-5.35GHz	12.22	0.01667	25.22	0.33266
5.47-5.725GHz	16.96	0.04966	29.96	0.99083





**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	13.00	11.29	11.18	14.25	16.98	27.25	30.00
5300MHz	Pass	13.00	11.03	11.22	14.14	16.98	27.14	30.00
5320MHz	Pass	13.00	11.08	11.39	14.25	16.98	27.25	30.00
5500MHz	Pass	13.00	11.43	11.31	14.38	16.98	27.38	30.00
5580MHz	Pass	13.00	11.24	11.05	14.16	16.98	27.16	30.00
5700MHz	Pass	13.00	11.32	11.49	14.42	16.98	27.42	30.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5260MHz	Pass	13.00	11.22	11.16	14.20	16.98	27.20	30.00
5300MHz	Pass	13.00	11.01	11.27	14.15	16.98	27.15	30.00
5320MHz	Pass	13.00	11.13	11.46	14.31	16.98	27.31	30.00
5500MHz	Pass	13.00	11.45	11.33	14.40	16.98	27.40	30.00
5580MHz	Pass	13.00	11.12	11.04	14.09	16.98	27.09	30.00
5700MHz	Pass	13.00	11.27	11.49	14.39	16.98	27.39	30.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5270MHz	Pass	13.00	13.98	13.86	16.93	16.98	29.93	30.00
5310MHz	Pass	13.00	13.71	13.89	16.81	16.98	29.81	30.00
5510MHz	Pass	13.00	14.07	13.84	16.97	16.98	29.97	30.00
5550MHz	Pass	13.00	13.66	13.72	16.70	16.98	29.70	30.00
5670MHz	Pass	13.00	13.59	13.81	16.71	16.98	29.71	30.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5290MHz	Pass	13.00	9.15	9.27	12.22	16.98	25.22	30.00
5530MHz	Pass	13.00	9.34	9.43	12.40	16.98	25.40	30.00
5610MHz	Pass	13.00	13.88	14.02	16.96	16.98	29.96	30.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
802.11a_(6Mbps)_2TX	-	-
5.25-5.35GHz	0.89	16.90
5.47-5.725GHz	0.97	16.98
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-
5.25-5.35GHz	0.97	16.98
5.47-5.725GHz	0.95	16.96
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-
5.25-5.35GHz	0.68	16.69
5.47-5.725GHz	0.81	16.82
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-
5.25-5.35GHz	-6.67	9.34
5.47-5.725GHz	-1.92	14.09

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

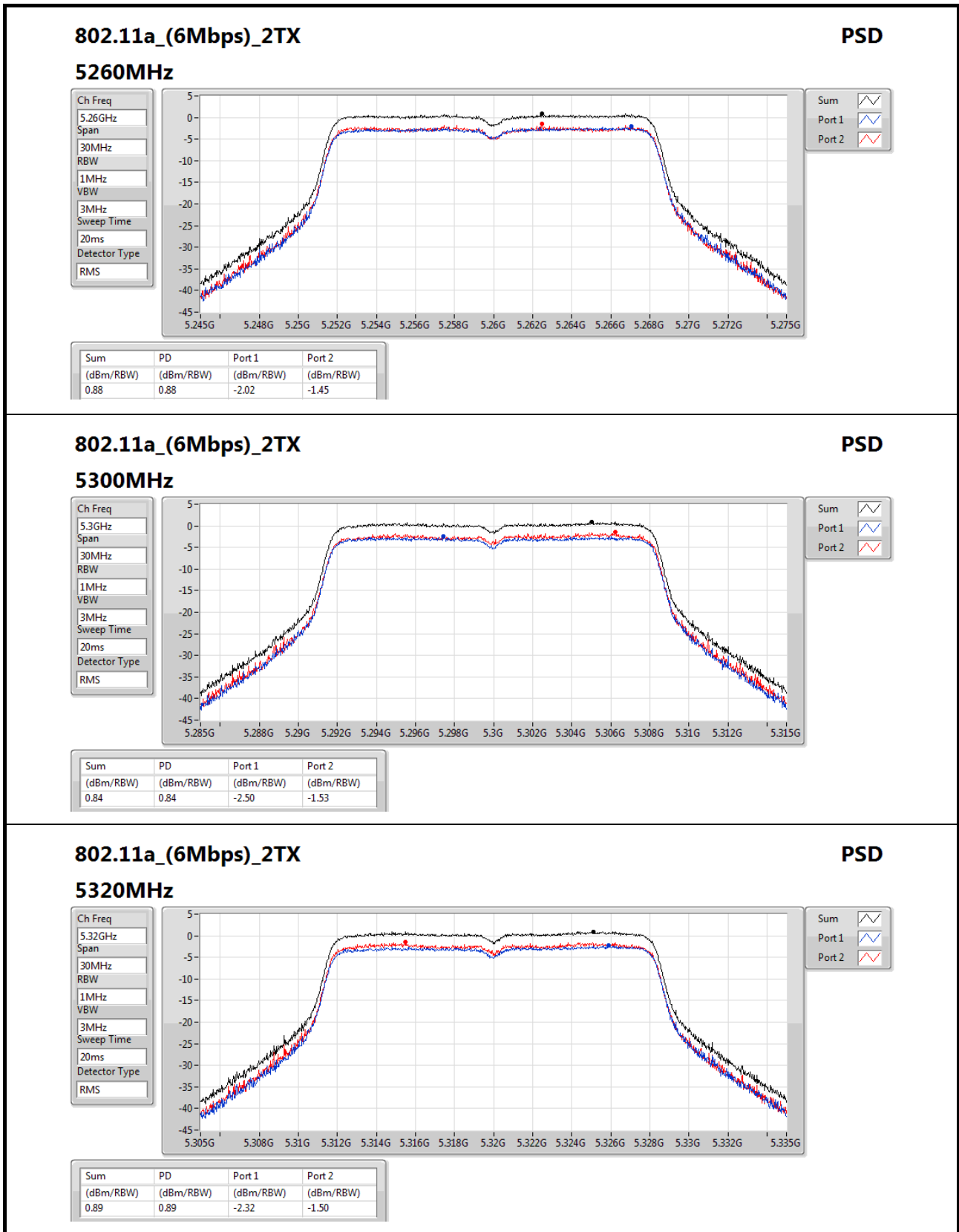


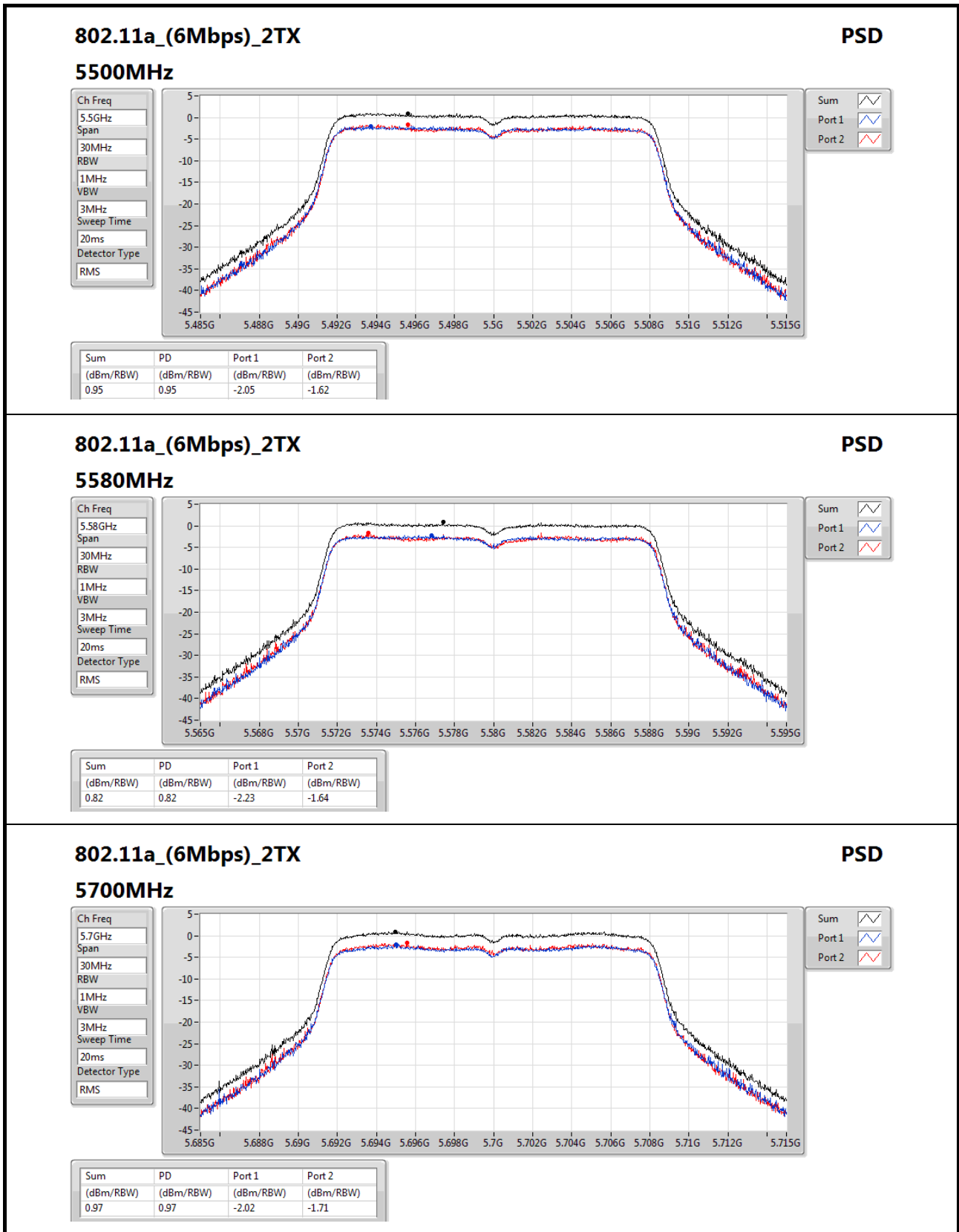
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	16.01	-2.02	-1.45	0.88	0.99
5300MHz	Pass	16.01	-2.50	-1.53	0.84	0.99
5320MHz	Pass	16.01	-2.32	-1.50	0.89	0.99
5500MHz	Pass	16.01	-2.05	-1.62	0.95	0.99
5580MHz	Pass	16.01	-2.23	-1.64	0.82	0.99
5700MHz	Pass	16.01	-2.02	-1.71	0.97	0.99
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	16.01	-1.90	-2.01	0.81	0.99
5300MHz	Pass	16.01	-2.45	-1.74	0.76	0.99
5320MHz	Pass	16.01	-2.07	-1.64	0.97	0.99
5500MHz	Pass	16.01	-1.76	-1.93	0.95	0.99
5580MHz	Pass	16.01	-1.90	-1.95	0.74	0.99
5700MHz	Pass	16.01	-1.94	-1.77	0.94	0.99
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	16.01	-2.21	-2.08	0.68	0.99
5310MHz	Pass	16.01	-2.44	-1.90	0.56	0.99
5510MHz	Pass	16.01	-1.73	-1.97	0.81	0.99
5550MHz	Pass	16.01	-2.60	-2.03	0.49	0.99
5670MHz	Pass	16.01	-2.64	-2.14	0.50	0.99
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	16.01	-9.62	-9.58	-6.67	0.99
5530MHz	Pass	16.01	-9.55	-9.28	-6.40	0.99
5610MHz	Pass	16.01	-4.84	-4.74	-1.92	0.99

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

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




**802.11a\_(6Mbps)\_2TX**
**PSD**

**5700MHz**

Ch Freq  
5.7GHz

Span  
30MHz

RBW  
1MHz

VBW  
3MHz

Sweep Time  
20ms

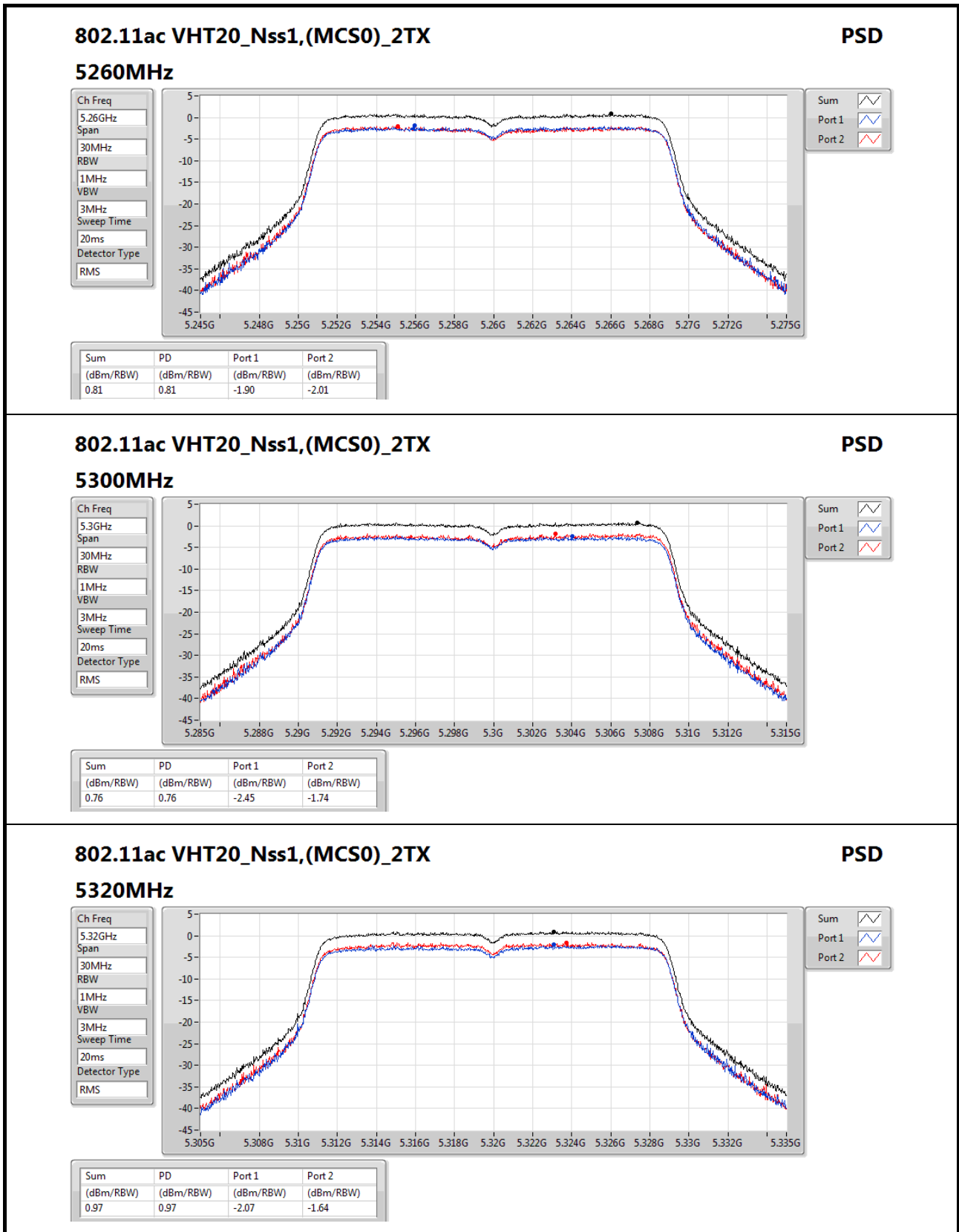
Detector Type  
RMS

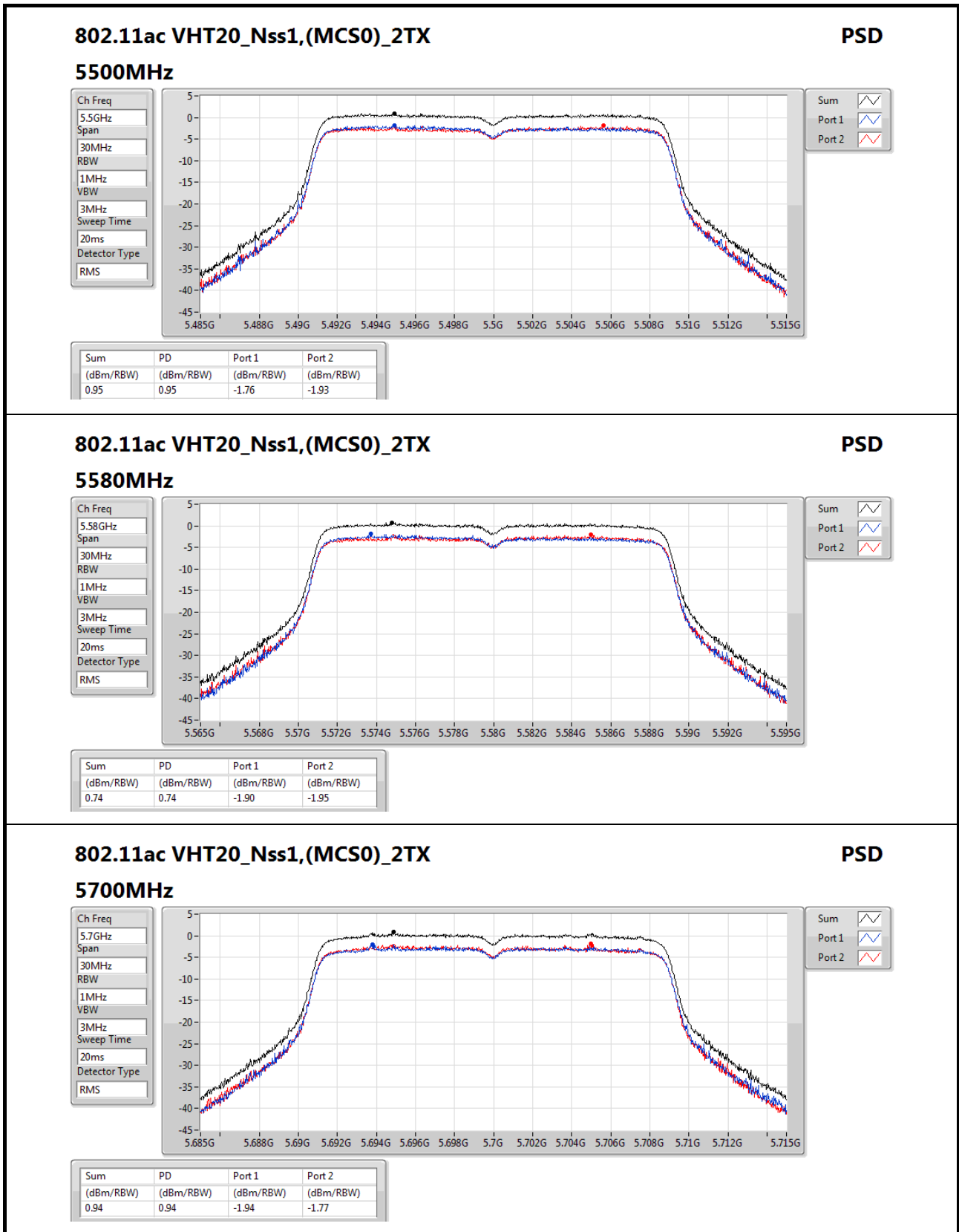
Sum

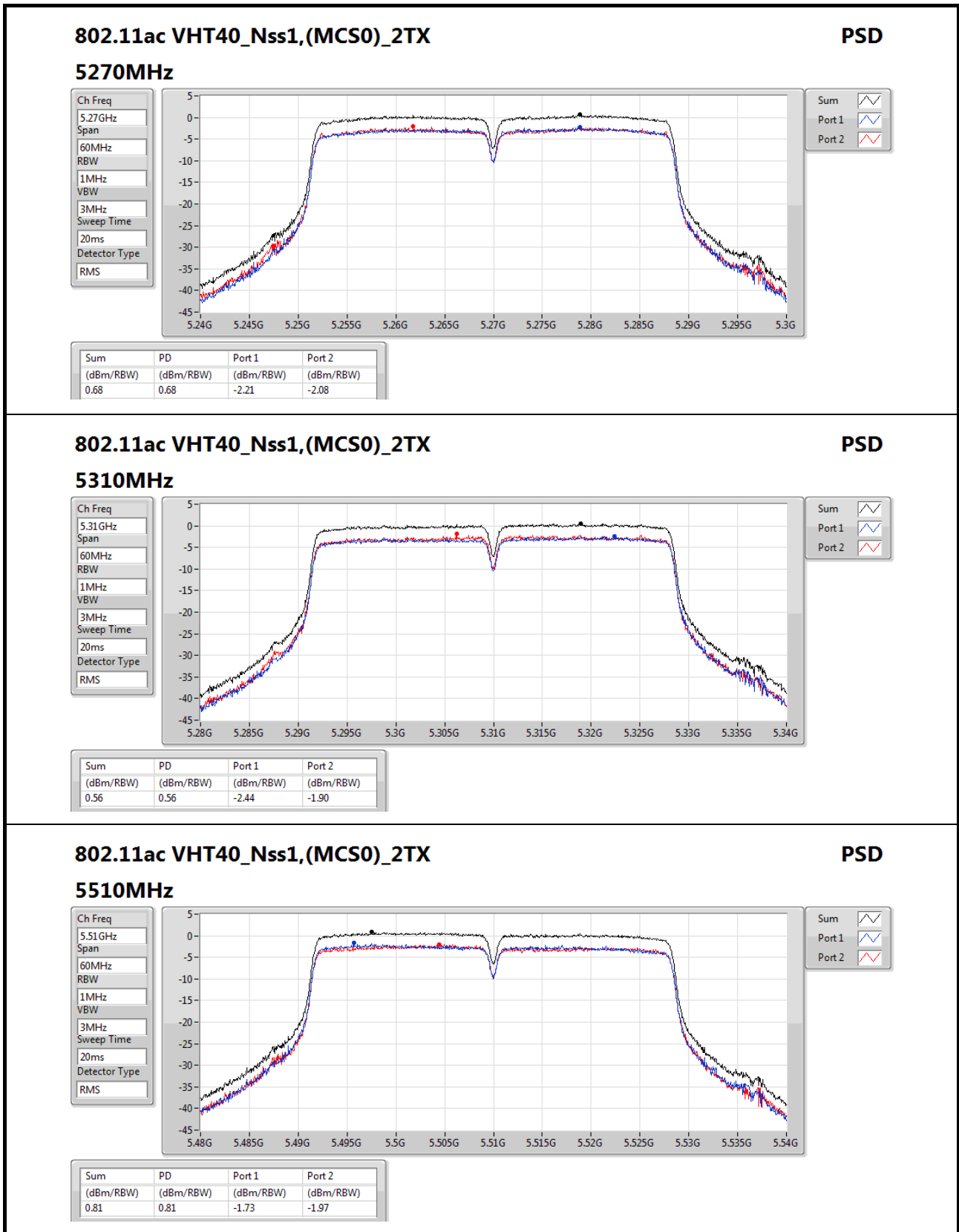
Port 1

Port 2

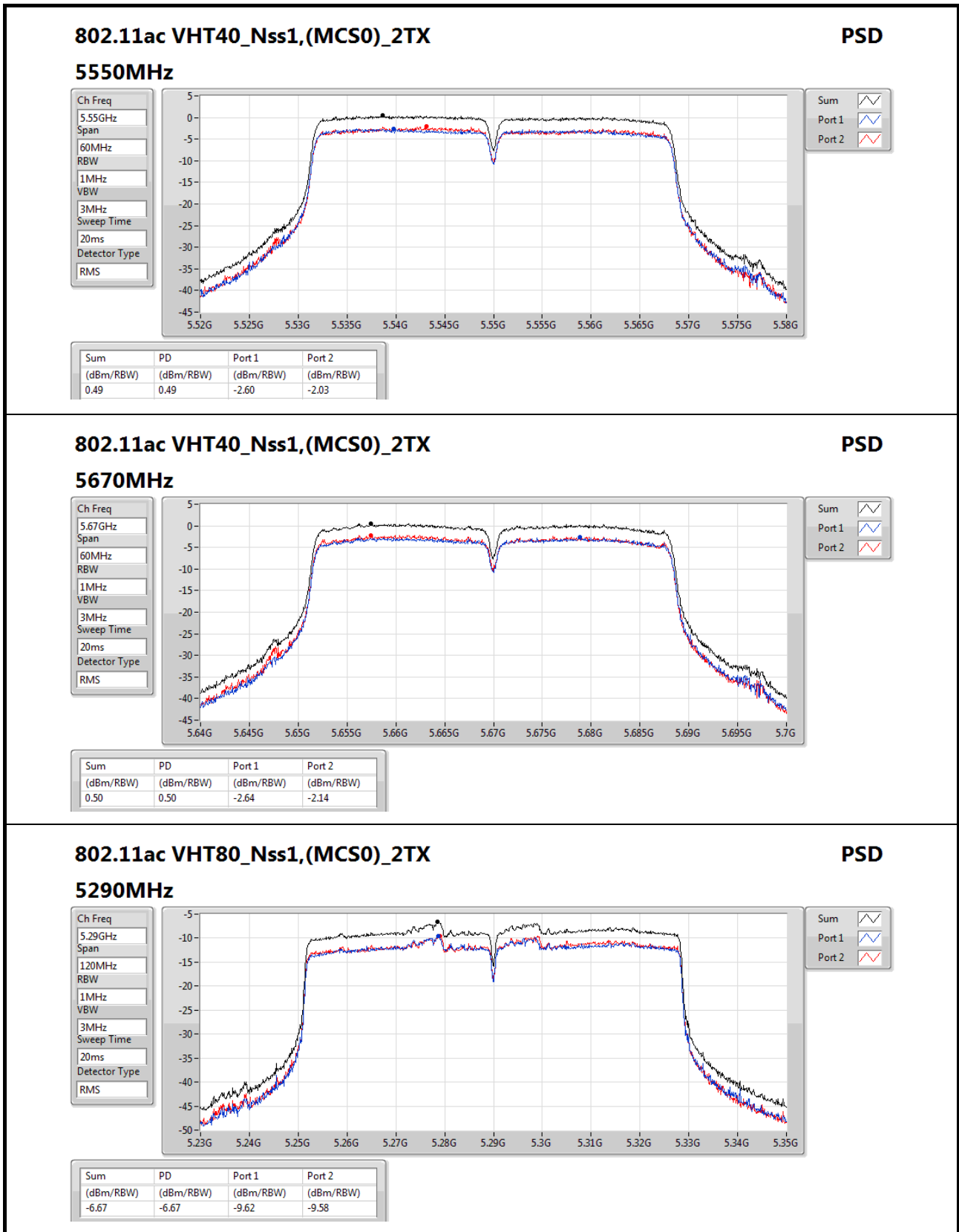
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.97	0.97	-2.02	-1.71










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

**5290MHz**

Ch Freq  
5.29GHz

Span  
120MHz

RBW  
1MHz

VBW  
3MHz

Sweep Time  
20ms

Detector Type  
RMS

Sum

Port 1

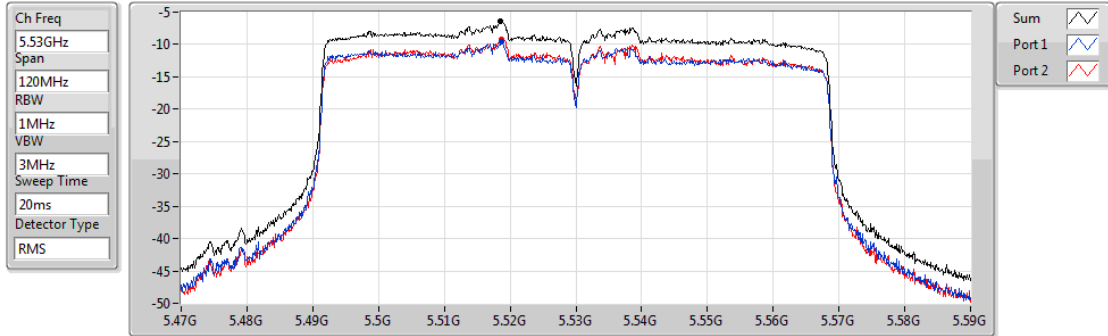
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.67	-6.67	-9.62	-9.58

802.11ac VHT80\_Nss1,(MCS0)\_2TX

PSD

5530MHz

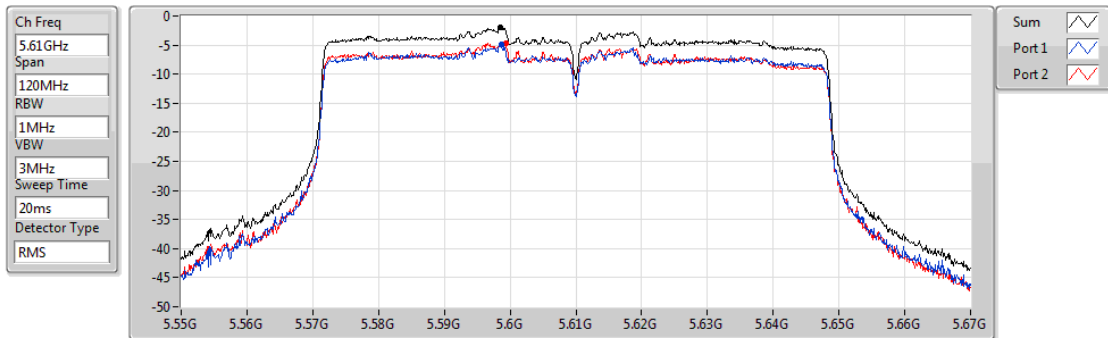


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.40	-6.40	-9.55	-9.28

802.11ac VHT80\_Nss1,(MCS0)\_2TX

PSD

5610MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.92	-1.92	-4.84	-4.74

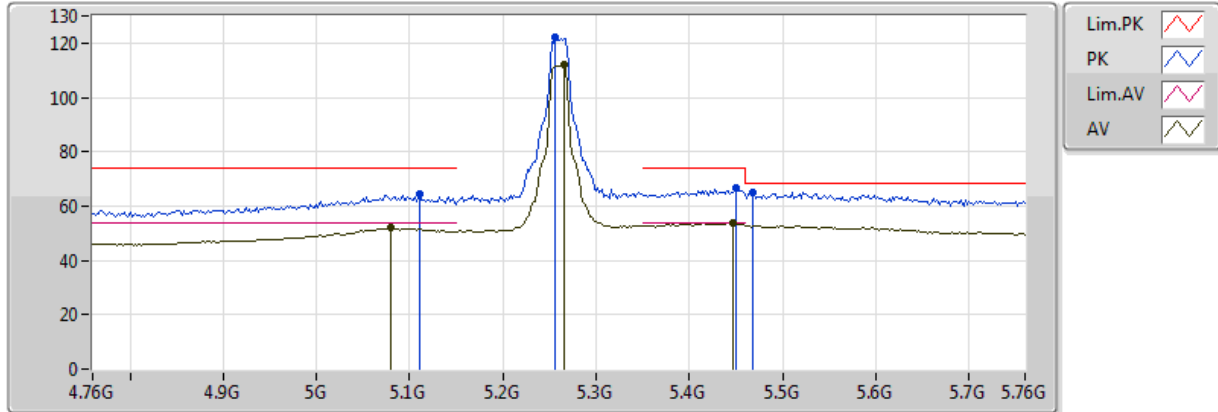


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5.25-5.35GHz	Pass	AV	5.414G	53.91	54.00	-0.09	5.20	3	V	1	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5260MHz\_TX

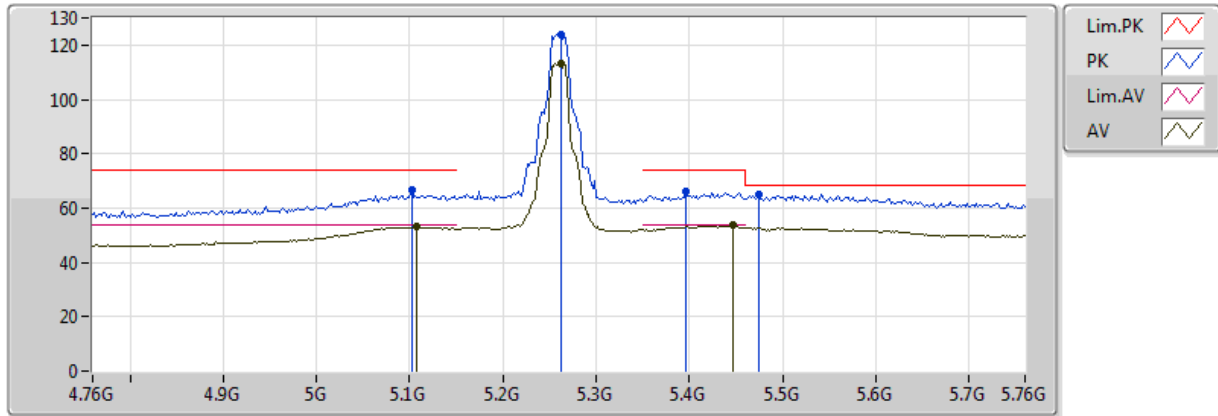


20170216  
 EUT\_Y\_2TX  
 Setting:23  
 04-J-4-12  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.08G	51.85	54.00	-2.15	4.52	3	V	0	1.50	-
AV	5.266G	112.07	Inf	-Inf	5.02	3	V	0	1.50	-
AV	5.446G	53.85	54.00	-0.15	5.35	3	V	0	1.50	-
PK	5.11G	64.48	74.00	-9.52	4.63	3	V	0	1.50	-
PK	5.256G	121.92	Inf	-Inf	5.01	3	V	0	1.50	-
PK	5.45G	66.90	74.00	-7.10	5.37	3	V	0	1.50	-
PK	5.468G	64.93	68.20	-3.27	5.45	3	V	0	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5260MHz\_TX

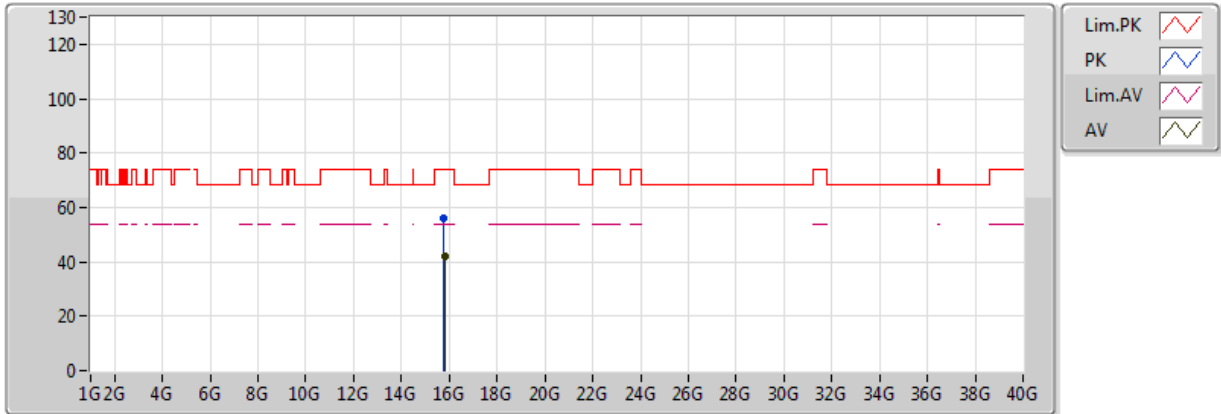


20170216  
 EUT\_Y\_2TX  
 Setting:23  
 04-J-4-12  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.108G	53.09	54.00	-0.91	4.63	3	H	354	1.50	-
AV	5.262G	113.15	Inf	-Inf	5.02	3	H	354	1.50	-
AV	5.446G	53.78	54.00	-0.22	5.35	3	H	354	1.50	-
PK	5.102G	66.47	74.00	-7.53	4.61	3	H	354	1.50	-
PK	5.262G	124.05	Inf	-Inf	5.02	3	H	354	1.50	-
PK	5.396G	66.00	74.00	-8.00	5.14	3	H	354	1.50	-
PK	5.474G	64.87	68.20	-3.33	5.48	3	H	354	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5260MHz\_TX

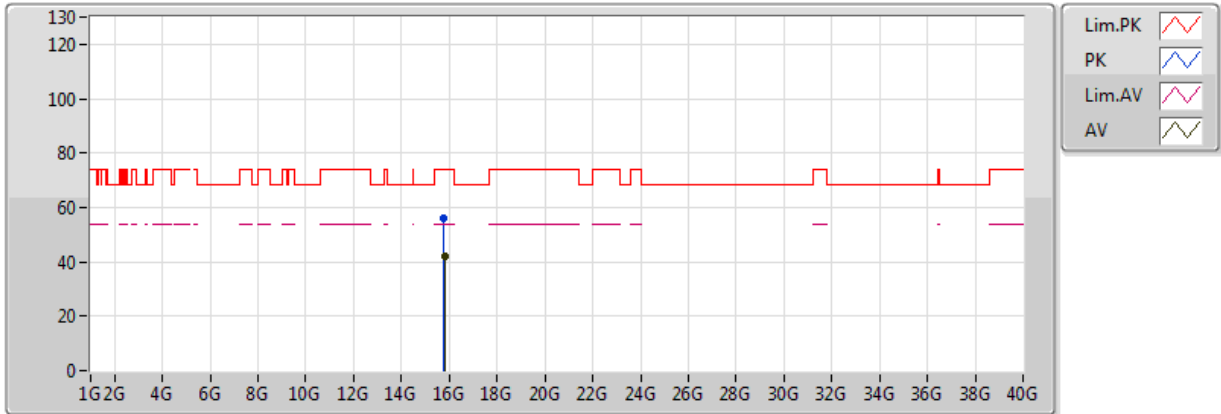


20170216  
 EUT\_Y\_2TX  
 Setting:23  
 04-J-4  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.79488G	41.93	54.00	-12.07	15.59	3	V	124	1.68	-
PK	15.77826G	56.05	74.00	-17.95	15.60	3	V	124	1.68	-

### 802.11a\_(6Mbps)\_2TX

### 5260MHz\_TX

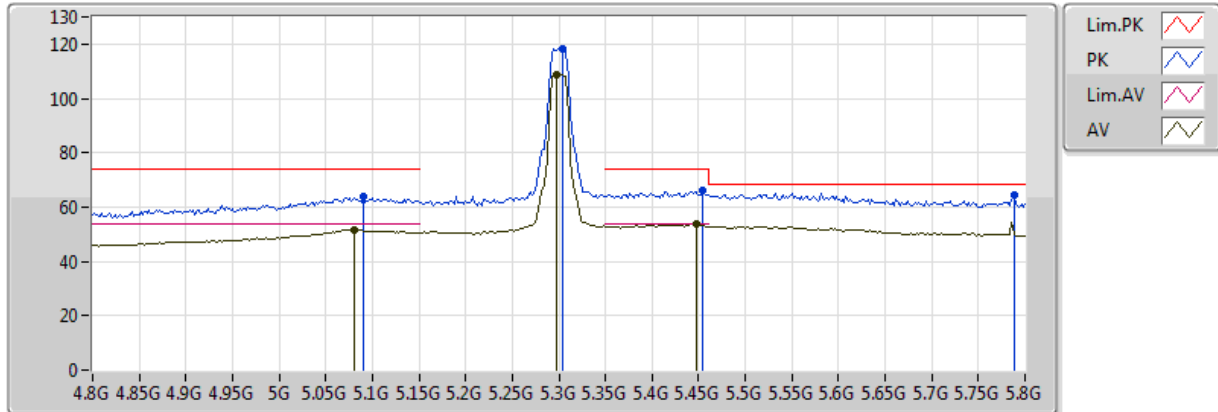


20170216  
EUT\_Y\_2TX  
Setting:23  
04-J-4  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.79248G	41.81	54.00	-12.19	15.59	3	H	114	2.25	-
PK	15.7701G	56.08	74.00	-17.92	15.61	3	H	114	2.25	-

### 802.11a\_(6Mbps)\_2TX

### 5300MHz\_TX



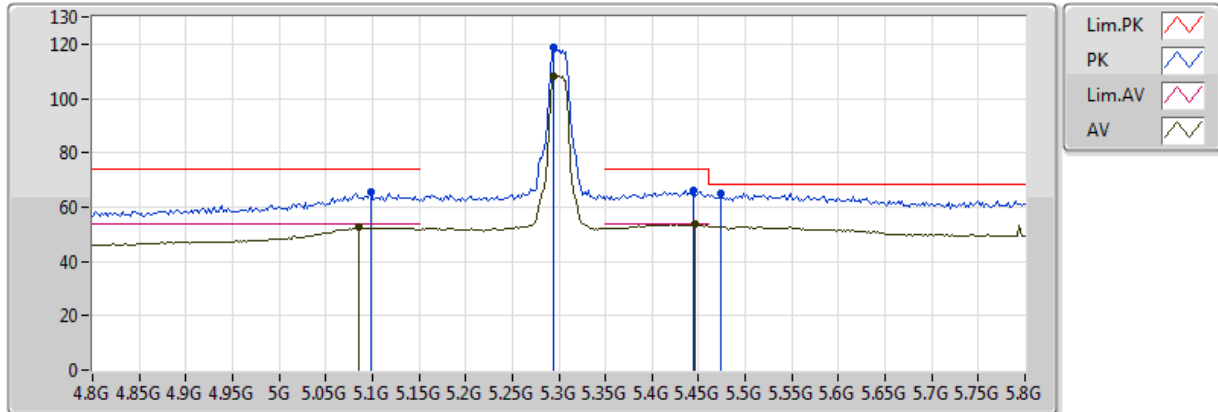
20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4-12  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.08G	51.67	54.00	-2.33	4.52	3	V	2	1.51	-
AV	5.298G	108.55	Inf	-Inf	5.06	3	V	2	1.51	-
AV	5.448G	53.61	54.00	-0.39	5.36	3	V	2	1.51	-
PK	5.09G	63.98	74.00	-10.02	4.56	3	V	2	1.51	-
PK	5.304G	118.37	Inf	-Inf	5.06	3	V	2	1.51	-
PK	5.454G	66.02	74.00	-7.98	5.39	3	V	2	1.51	-
PK	5.788G	64.19	68.20	-4.01	6.38	3	V	2	1.51	-



### 802.11a\_(6Mbps)\_2TX

### 5300MHz\_TX

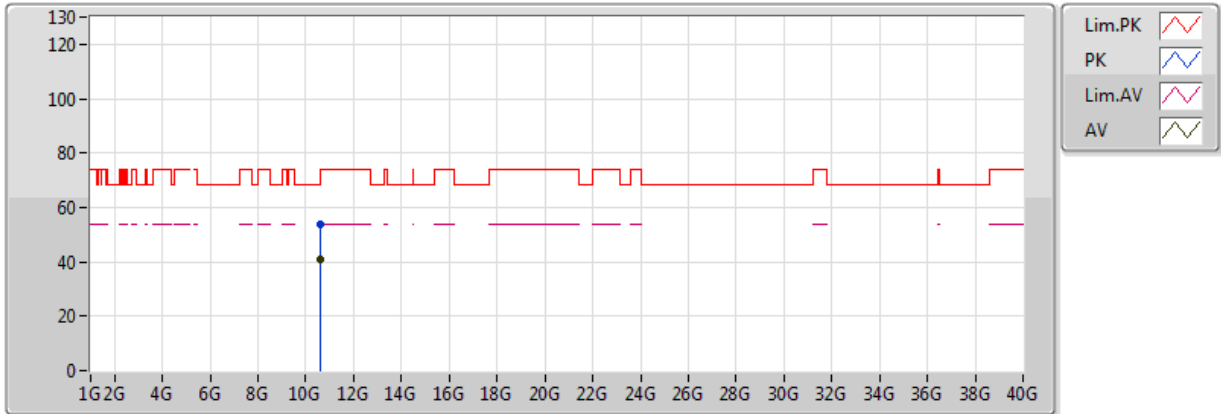


20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4-12  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.086G	52.55	54.00	-1.45	4.54	3	H	347	1.50	-
AV	5.294G	108.32	Inf	-Inf	5.05	3	H	347	1.50	-
AV	5.446G	53.70	54.00	-0.30	5.35	3	H	347	1.50	-
PK	5.098G	65.58	74.00	-8.42	4.59	3	H	347	1.50	-
PK	5.294G	118.63	Inf	-Inf	5.05	3	H	347	1.50	-
PK	5.444G	66.37	74.00	-7.63	5.34	3	H	347	1.50	-
PK	5.474G	65.18	68.20	-3.02	5.48	3	H	347	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5300MHz\_TX

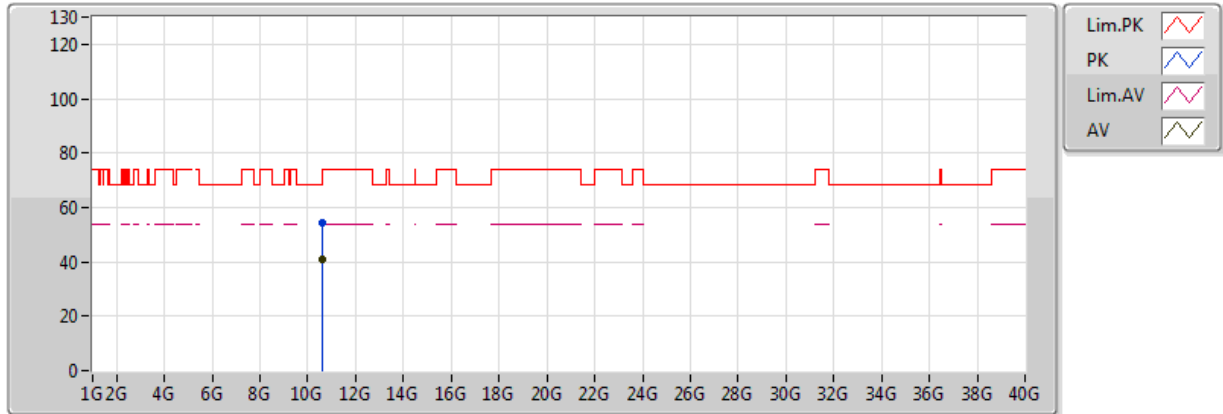


20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.60972G	40.87	54.00	-13.13	14.06	3	V	83	1.73	-
PK	10.61308G	53.52	74.00	-20.48	14.07	3	V	83	1.73	-

### 802.11a\_(6Mbps)\_2TX

### 5300MHz\_TX

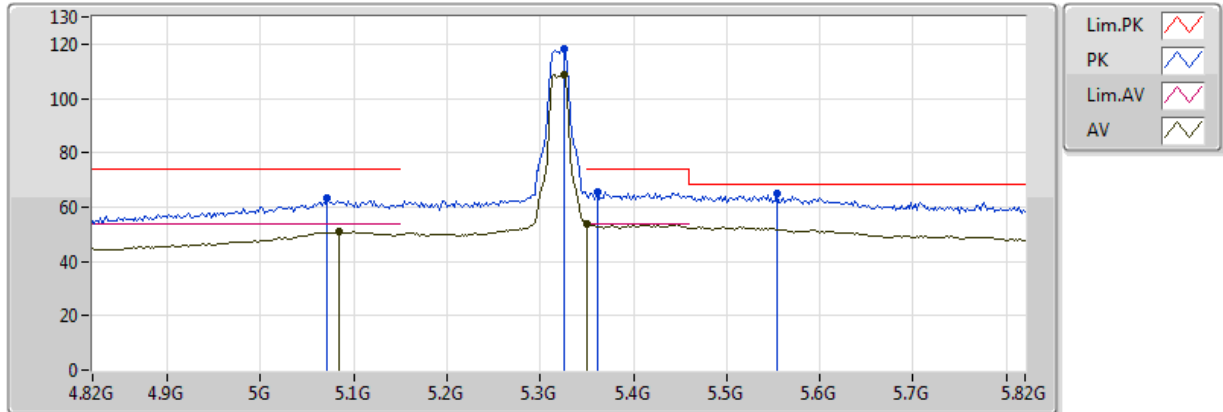


20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.61338G	40.73	54.00	-13.27	14.07	3	H	100	1.75	-
PK	10.61104G	54.10	74.00	-19.90	14.07	3	H	100	1.75	-

### 802.11a\_(6Mbps)\_2TX

### 5320MHz\_TX

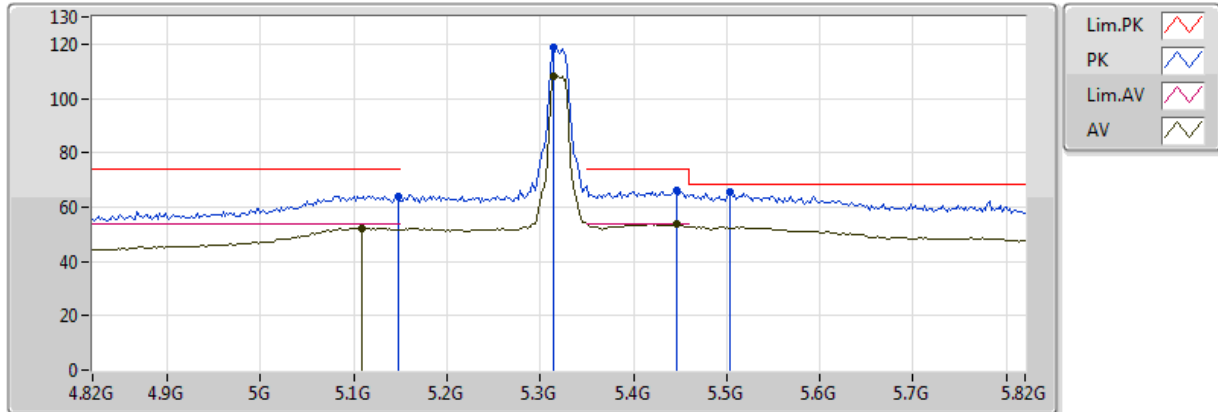


20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4-10  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.084G	50.88	54.00	-3.12	4.54	3	V	0	1.53	-
AV	5.326G	108.76	Inf	-Inf	5.08	3	V	0	1.53	-
AV	5.350005G	53.88	54.00	-0.12	5.10	3	V	0	1.53	-
PK	5.072G	63.47	74.00	-10.53	4.49	3	V	0	1.53	-
PK	5.326G	118.17	Inf	-Inf	5.08	3	V	0	1.53	-
PK	5.362G	65.50	74.00	-8.50	5.11	3	V	0	1.53	-
PK	5.554G	64.87	68.20	-3.33	5.90	3	V	0	1.53	-

### 802.11a\_(6Mbps)\_2TX

### 5320MHz\_TX

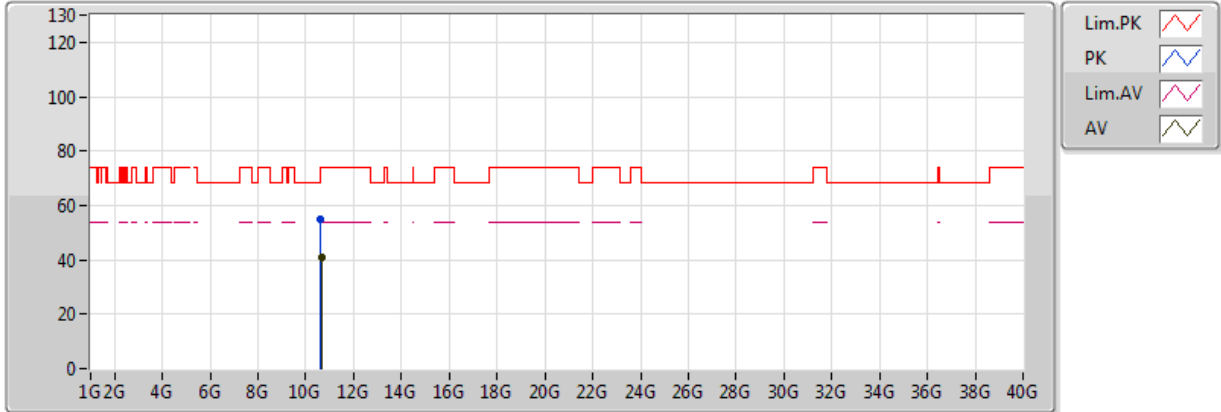


20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4-10  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.108G	52.27	54.00	-1.73	4.63	3	H	346	1.50	-
AV	5.314G	108.20	Inf	-Inf	5.07	3	H	346	1.50	-
AV	5.446G	53.81	54.00	-0.19	5.35	3	H	346	1.50	-
PK	5.148G	64.15	74.00	-9.85	4.77	3	H	346	1.50	-
PK	5.314G	118.54	Inf	-Inf	5.07	3	H	346	1.50	-
PK	5.446G	65.99	74.00	-8.01	5.35	3	H	346	1.50	-
PK	5.504G	65.40	68.20	-2.80	5.62	3	H	346	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5320MHz\_TX

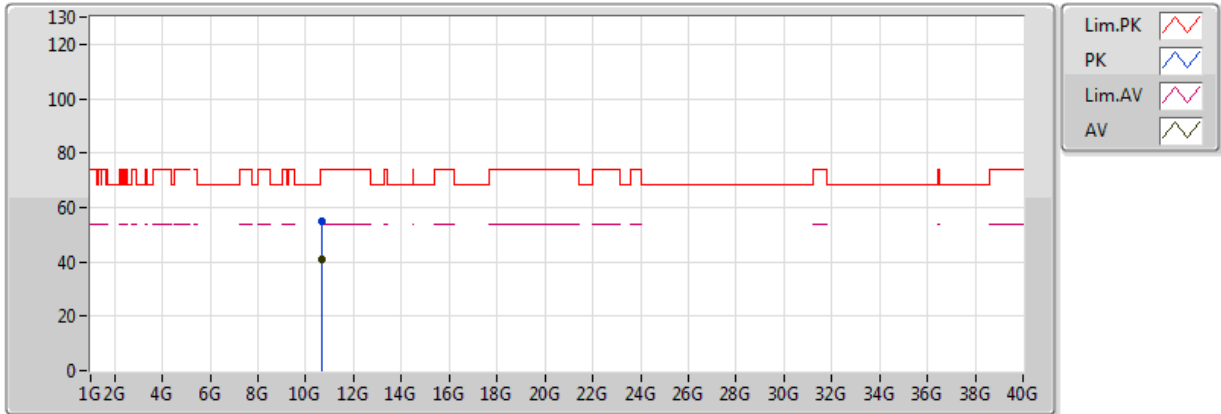


20170216  
 EUT\_Y\_2TX  
 Setting:19.5  
 04-J-4  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.64762G	41.11	54.00	-12.89	14.12	3	V	24	2.18	-
PK	10.6283G	55.06	74.00	-18.94	14.09	3	V	24	2.18	-

### 802.11a\_(6Mbps)\_2TX

### 5320MHz\_TX

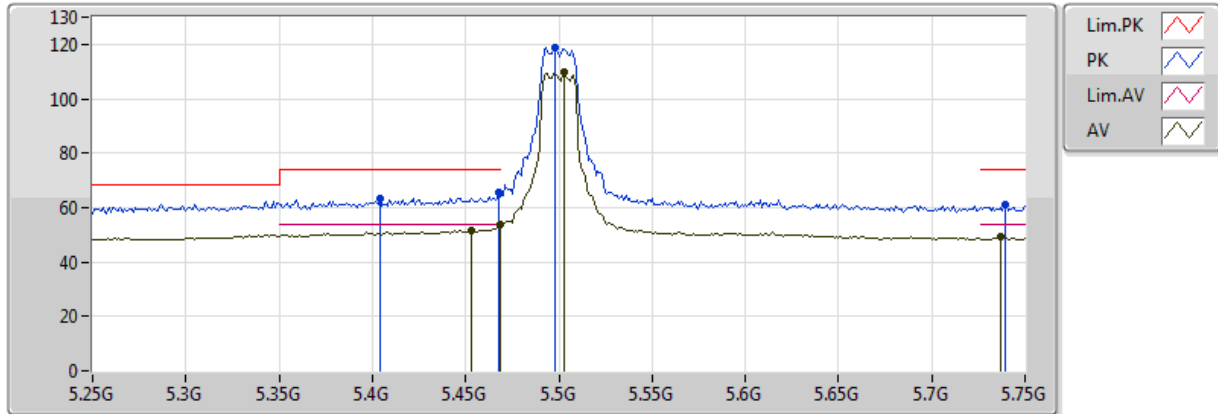


20170216  
EUT\_Y\_2TX  
Setting:19.5  
04-J-4  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.6517G	41.17	54.00	-12.83	14.12	3	H	253	1.97	-
PK	10.64396G	54.88	74.00	-19.12	14.11	3	H	253	1.97	-

### 802.11a\_(6Mbps)\_2TX

### 5500MHz\_TX



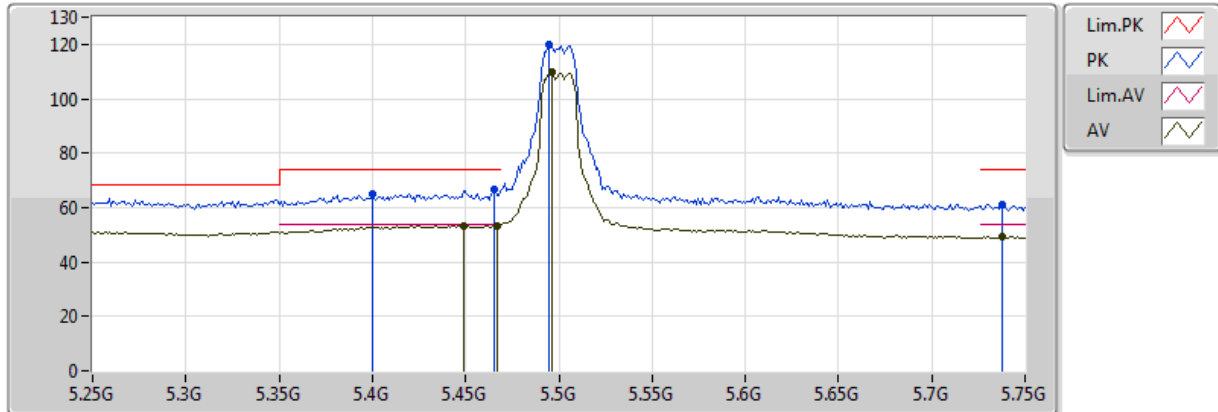
20170217  
EUT\_Y\_2TX  
Setting:19  
04-J-5-12  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.453G	51.72	54.00	-2.28	5.38	3	V	0	1.50	-
AV	5.469G	53.69	54.00	-0.31	5.46	3	V	0	1.50	-
AV	5.503G	109.71	Inf	-Inf	5.62	3	V	0	1.50	-
AV	5.737G	49.27	54.00	-4.73	6.31	3	V	0	1.50	-
PK	5.468G	65.37	74.00	-8.63	5.45	3	V	0	1.50	-
PK	5.498G	119.06	Inf	-Inf	5.59	3	V	0	1.50	-
PK	5.739G	60.89	74.00	-13.11	6.32	3	V	0	1.50	-
PK	5.404G	63.04	74.00	-10.96	5.16	3	V	0	1.50	-



### 802.11a\_(6Mbps)\_2TX

### 5500MHz\_TX

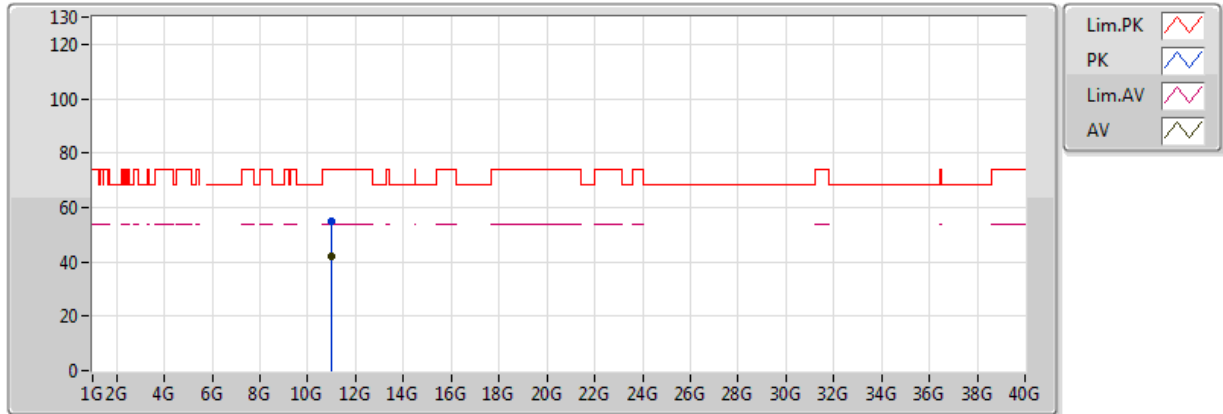


20170217  
EUT\_Y\_2TX  
Setting:19  
04-J-5-12  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.449G	53.34	54.00	-0.66	5.37	3	H	352	1.50	-
AV	5.467G	53.49	54.00	-0.51	5.45	3	H	352	1.50	-
AV	5.496G	109.71	Inf	-Inf	5.58	3	H	352	1.50	-
AV	5.738G	49.38	54.00	-4.62	6.32	3	H	352	1.50	-
PK	5.465G	66.66	74.00	-7.34	5.44	3	H	352	1.50	-
PK	5.495G	119.69	Inf	-Inf	5.58	3	H	352	1.50	-
PK	5.738G	61.24	74.00	-12.76	6.32	3	H	352	1.50	-
PK	5.4G	64.76	74.00	-9.24	5.14	3	H	352	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5500MHz\_TX

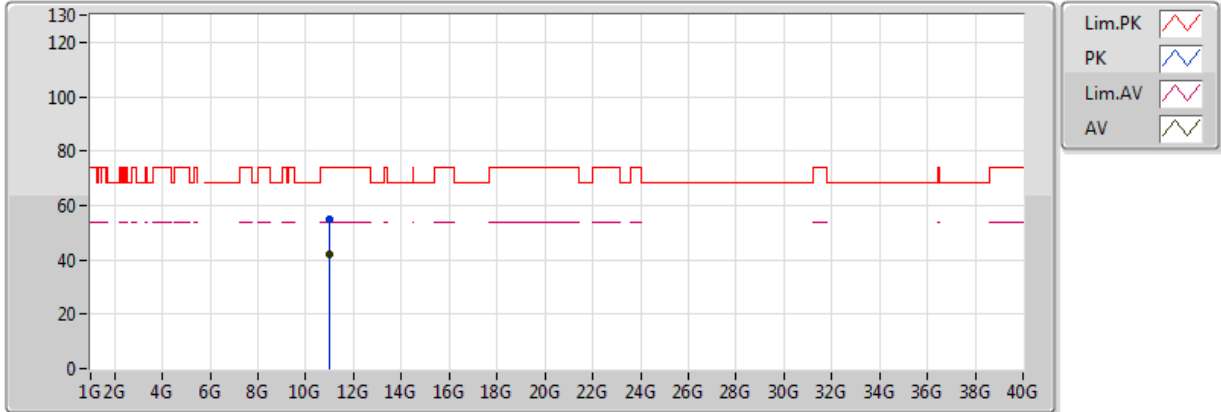


20170217  
 EUT\_Y\_2TX  
 Setting:19  
 04-J-5  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.0147G	41.90	54.00	-12.10	14.63	3	V	261	2.45	-
PK	10.99712G	54.79	74.00	-19.21	14.63	3	V	261	2.45	-

### 802.11a\_(6Mbps)\_2TX

### 5500MHz\_TX

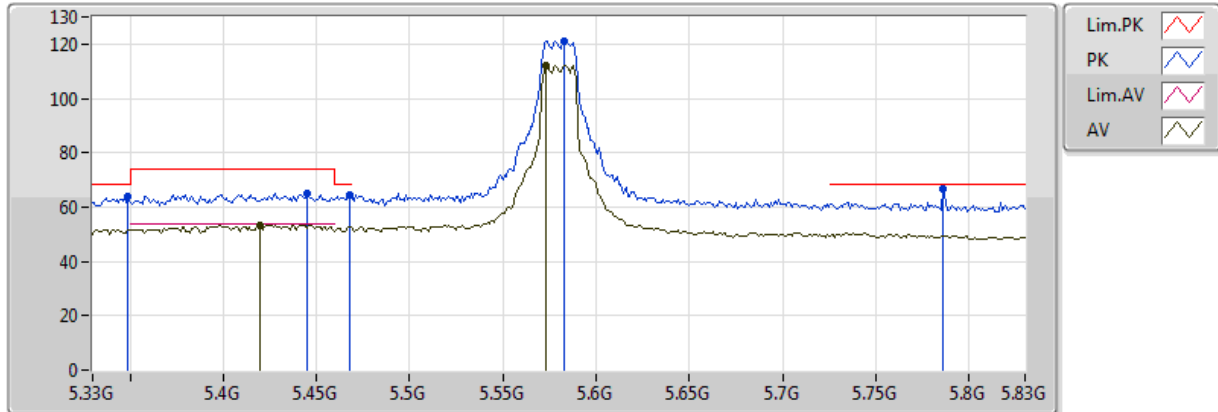


20170217  
EUT\_Y\_2TX  
Setting:19  
04-J-5  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.01416G	42.04	54.00	-11.96	14.63	3	H	119	1.86	-
PK	11.00342G	54.82	74.00	-19.18	14.63	3	H	119	1.86	-

### 802.11a\_(6Mbps)\_2TX

### 5580MHz\_TX

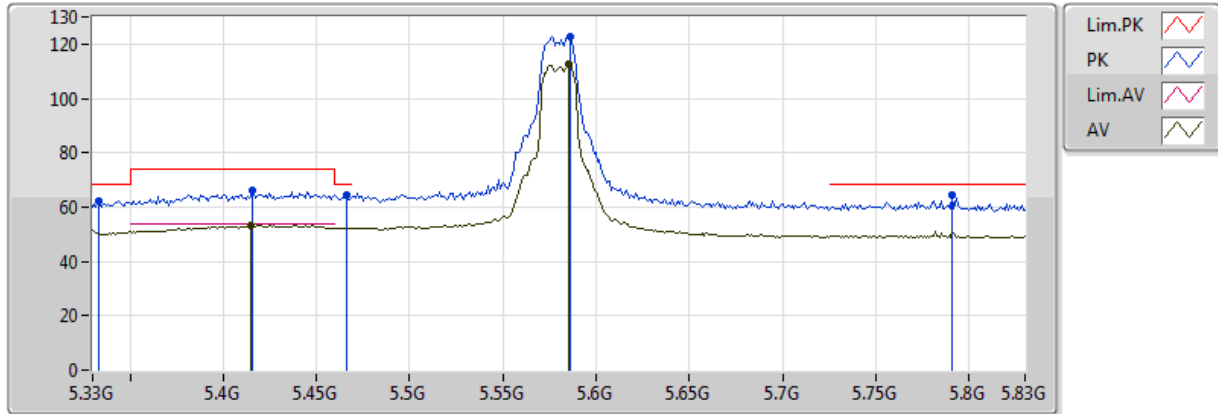


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-5-12  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.42G	53.48	54.00	-0.52	5.23	3	V	360	1.50	-
AV	5.573G	112.25	Inf	-Inf	6.00	3	V	360	1.50	-
PK	5.349G	64.02	68.20	-4.18	5.10	3	V	346	1.50	-
PK	5.445G	64.94	74.00	-9.06	5.35	3	V	360	1.50	-
PK	5.468G	64.63	68.20	-3.57	5.45	3	V	360	1.50	-
PK	5.583G	121.26	Inf	-Inf	6.06	3	V	360	1.50	-
PK	5.786G	66.95	68.20	-1.25	6.37	3	V	360	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5580MHz\_TX

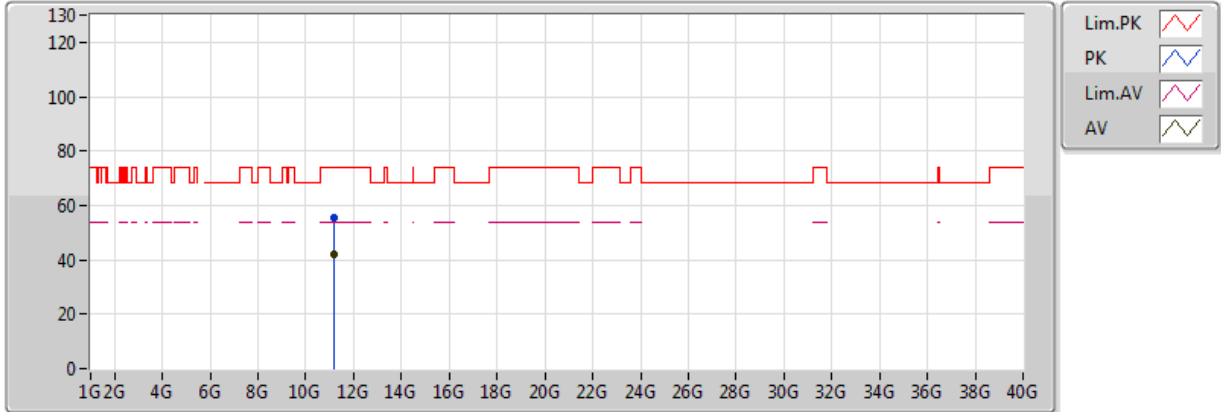


20170217  
EUT\_Y\_2TX  
Setting:21  
04-J-5-12  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.415G	53.17	54.00	-0.83	5.21	3	H	346	1.50	-
AV	5.585G	112.59	Inf	-Inf	6.07	3	H	346	1.50	-
PK	5.333G	62.30	68.20	-5.90	5.09	3	H	346	1.50	-
PK	5.416G	66.38	74.00	-7.62	5.21	3	H	346	1.50	-
PK	5.466G	64.50	68.20	-3.70	5.44	3	H	346	1.50	-
PK	5.586G	122.82	Inf	-Inf	6.07	3	H	346	1.50	-
PK	5.791G	64.26	68.20	-3.94	6.38	3	H	346	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5580MHz\_TX

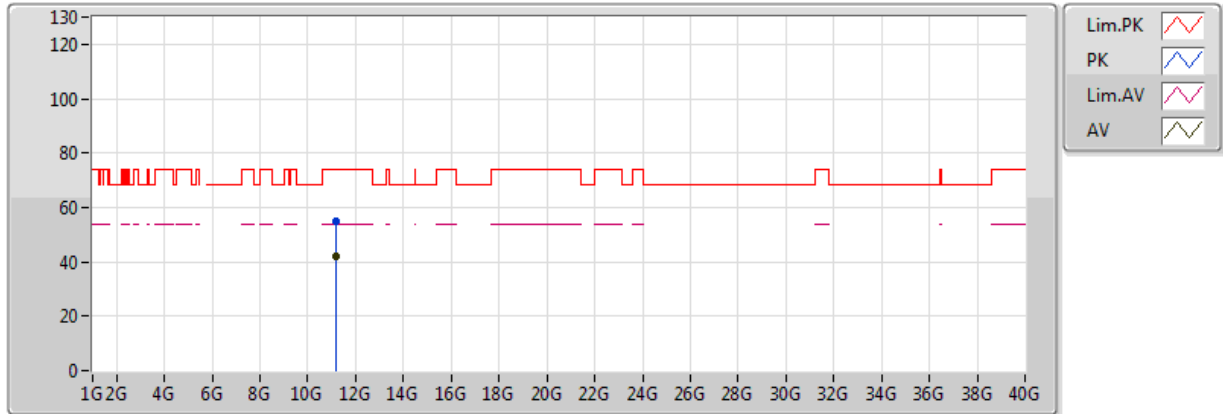


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-5  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.17398G	42.00	54.00	-12.00	14.67	3	V	358	1.70	-
PK	11.1624G	55.71	74.00	-18.29	14.67	3	V	358	1.70	-

### 802.11a\_(6Mbps)\_2TX

### 5580MHz\_TX

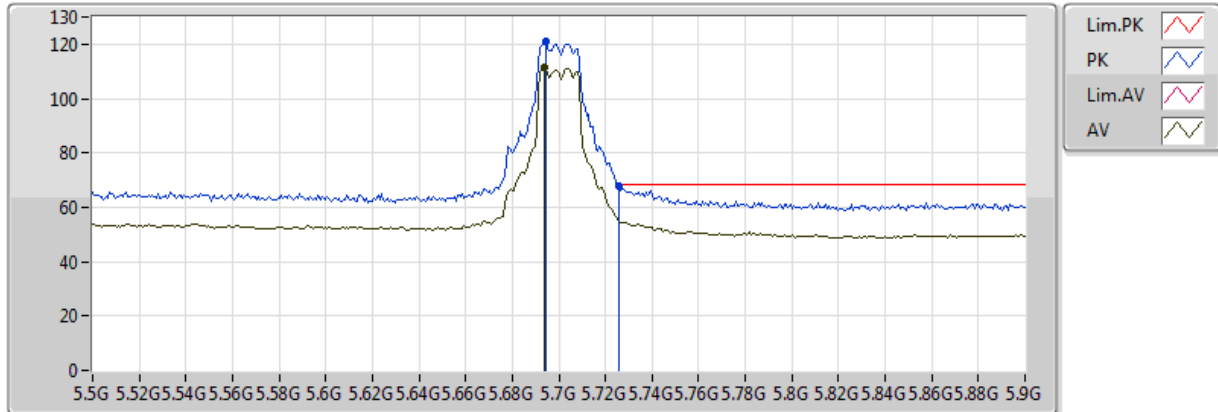


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-5  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.1669G	41.90	54.00	-12.10	14.67	3	H	137	1.67	-
PK	11.16942G	55.12	74.00	-18.88	14.67	3	H	137	1.67	-

### 802.11a\_(6Mbps)\_2TX

### 5700MHz\_TX



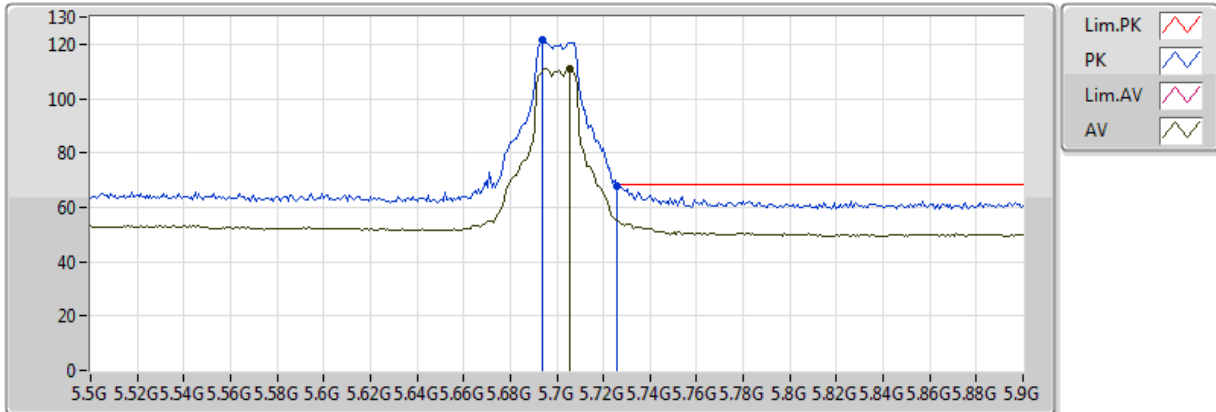
20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5-12  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.6936G	111.38	Inf	-Inf	6.26	3	V	360	1.50	-
PK	5.6944G	120.84	Inf	-Inf	6.26	3	V	360	1.50	-
PK	5.7256G	68.00	68.20	-0.20	6.30	3	V	360	1.50	-



### 802.11a\_(6Mbps)\_2TX

### 5700MHz\_TX

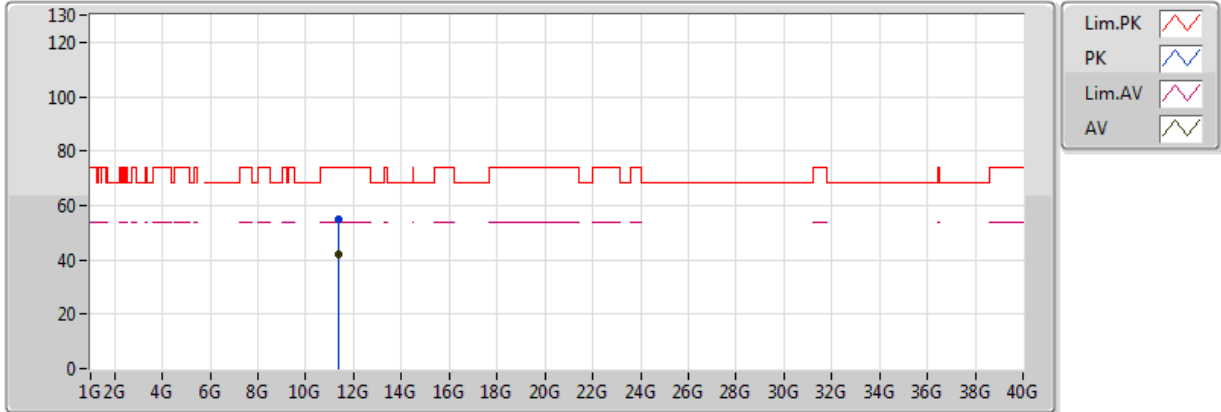


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-5-12  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.7056G	111.05	Inf	-Inf	6.28	3	H	1	1.50	-
PK	5.6936G	121.37	Inf	-Inf	6.26	3	H	1	1.50	-
PK	5.7256G	67.90	68.20	-0.30	6.30	3	H	1	1.50	-

### 802.11a\_(6Mbps)\_2TX

### 5700MHz\_TX

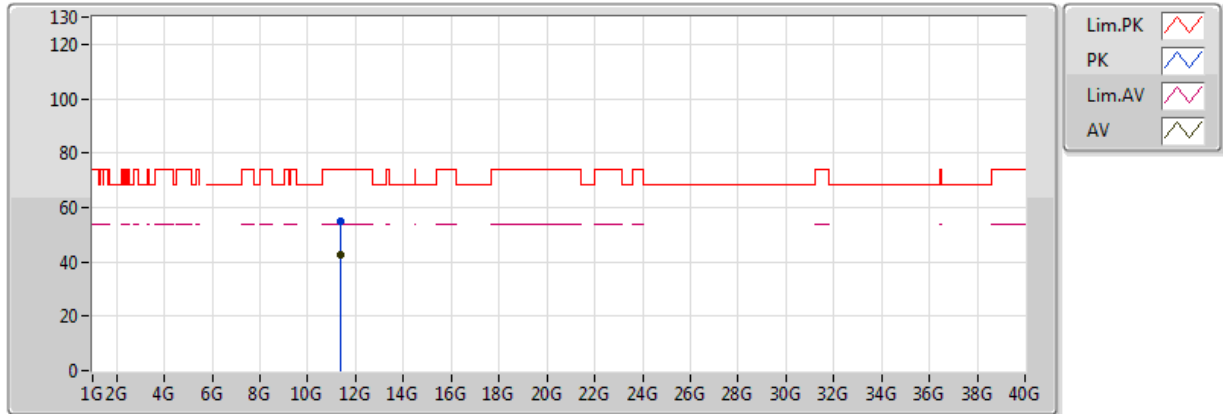


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5  
 FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.38536G	42.09	54.00	-11.91	14.72	3	V	305	1.82	-
PK	11.38668G	55.19	74.00	-18.81	14.72	3	V	305	1.82	-

### 802.11a\_(6Mbps)\_2TX

### 5700MHz\_TX

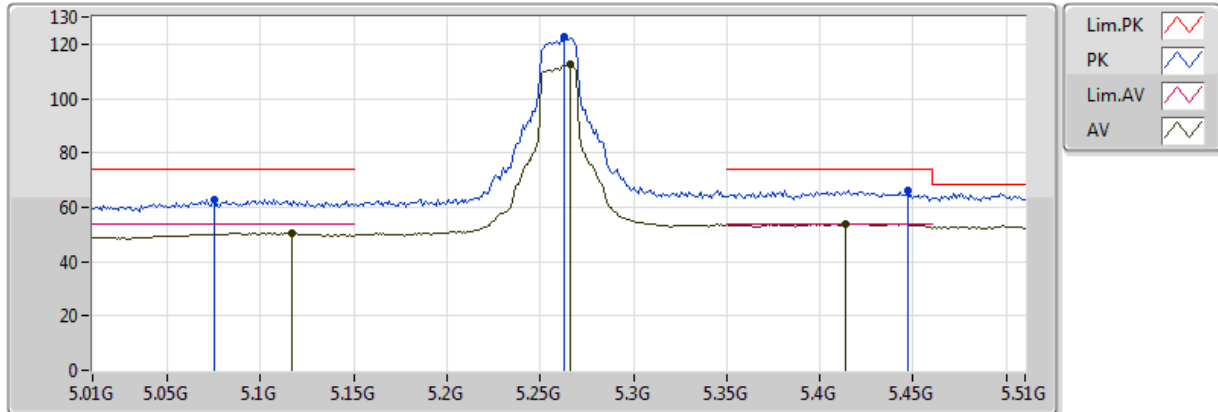


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-5  
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.39832G	42.40	54.00	-11.60	14.73	3	H	142	1.99	-
PK	11.38734G	54.89	74.00	-19.11	14.72	3	H	142	1.99	-

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

### 5260MHz\_TX

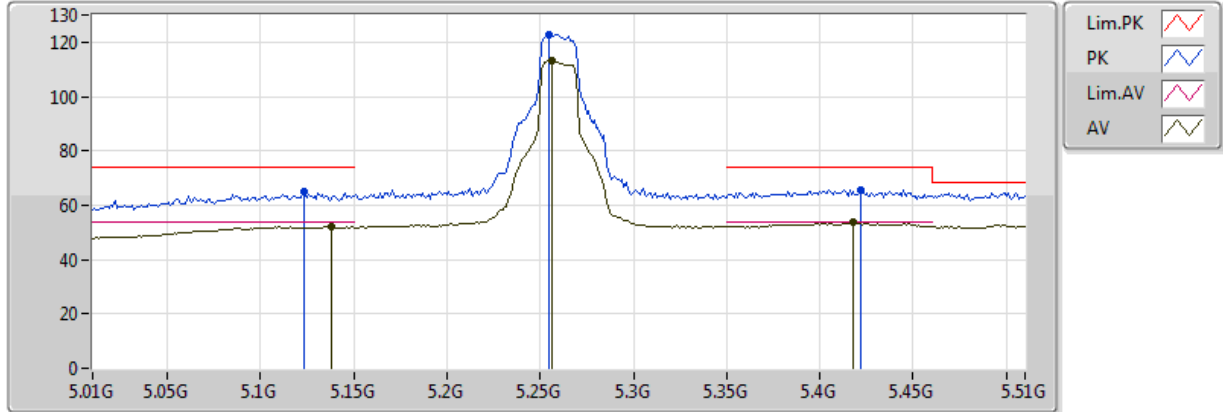


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-5-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.117G	50.53	54.00	-3.47	4.66	3	V	1	1.50	-
AV	5.266G	112.42	Inf	-Inf	5.02	3	V	1	1.50	-
AV	5.414G	53.91	54.00	-0.09	5.20	3	V	1	1.50	-
PK	5.075G	62.71	74.00	-11.29	4.50	3	V	1	1.50	-
PK	5.263G	122.89	Inf	-Inf	5.02	3	V	1	1.50	-
PK	5.447G	65.96	74.00	-8.04	5.36	3	V	1	1.50	-

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

### 5260MHz\_TX

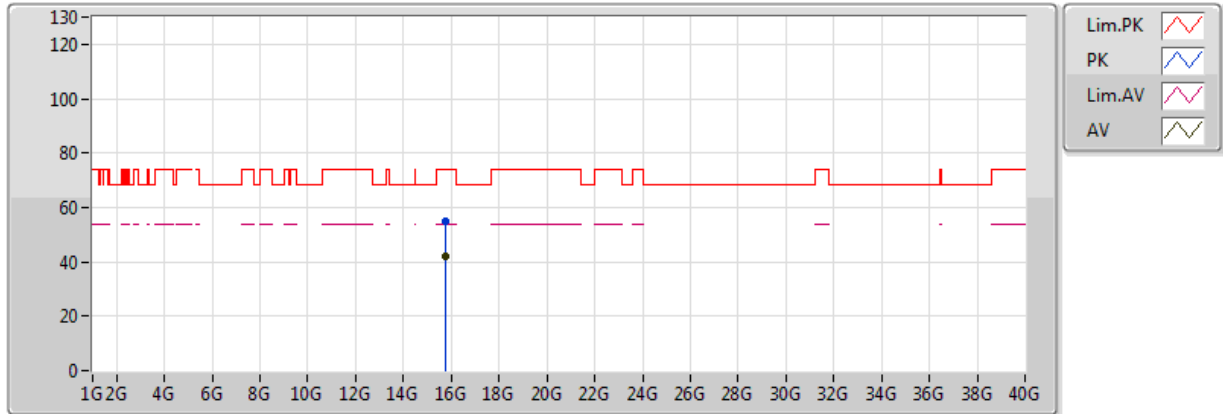


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-5-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.138G	52.21	54.00	-1.79	4.73	3	H	358	1.49	-
AV	5.256G	113.14	Inf	-Inf	5.01	3	H	358	1.49	-
AV	5.418G	53.57	54.00	-0.43	5.22	3	H	358	1.49	-
PK	5.123G	64.91	74.00	-9.09	4.68	3	H	358	1.49	-
PK	5.255G	122.74	Inf	-Inf	5.01	3	H	358	1.49	-
PK	5.422G	65.68	74.00	-8.32	5.24	3	H	358	1.49	-

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

### 5260MHz\_TX

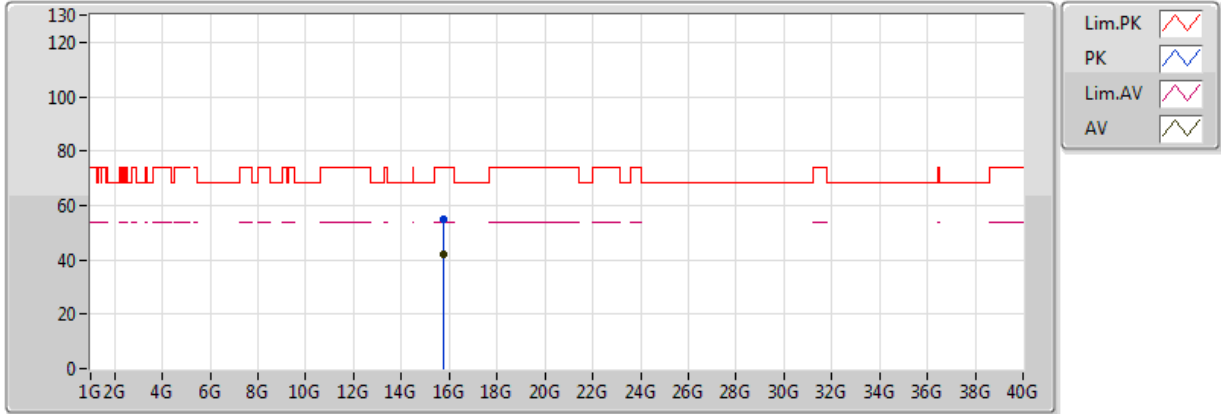


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-5  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.79068G	42.21	54.00	-11.79	15.60	3	V	199	1.21	-
PK	15.7668G	54.92	74.00	-19.08	15.61	3	V	199	1.21	-

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

### 5260MHz\_TX

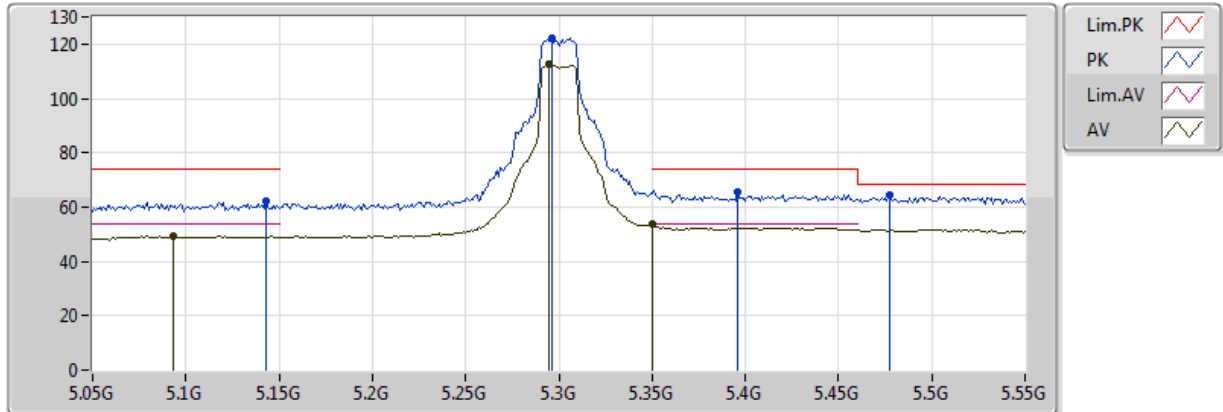


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.78744G	42.19	54.00	-11.81	15.60	3	H	255	2.02	-
PK	15.7863G	54.92	74.00	-19.08	15.60	3	H	255	2.02	-

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

### 5300MHz\_TX



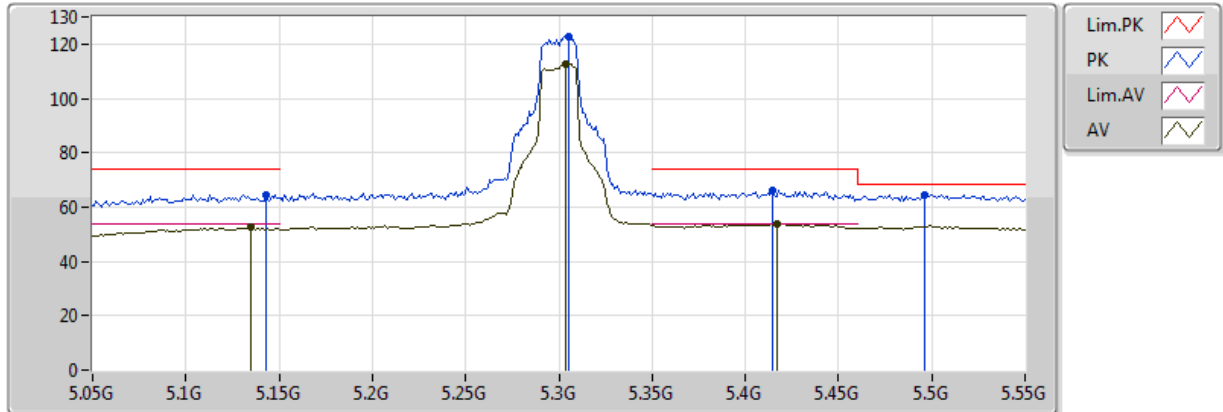
20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.093G	49.10	54.00	-4.90	4.57	3	V	1	1.50	-
AV	5.295G	112.51	Inf	-Inf	5.05	3	V	1	1.50	-
AV	5.350005G	53.64	54.00	-0.36	5.10	3	V	1	1.50	-
PK	5.143G	62.37	74.00	-11.63	4.75	3	V	1	1.50	-
PK	5.296G	122.18	Inf	-Inf	5.06	3	V	1	1.50	-
PK	5.477G	64.46	68.20	-3.74	5.49	3	V	1	1.50	-
PK	5.396G	65.50	74.00	-8.50	5.14	3	V	1	1.50	-



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

### 5300MHz\_TX

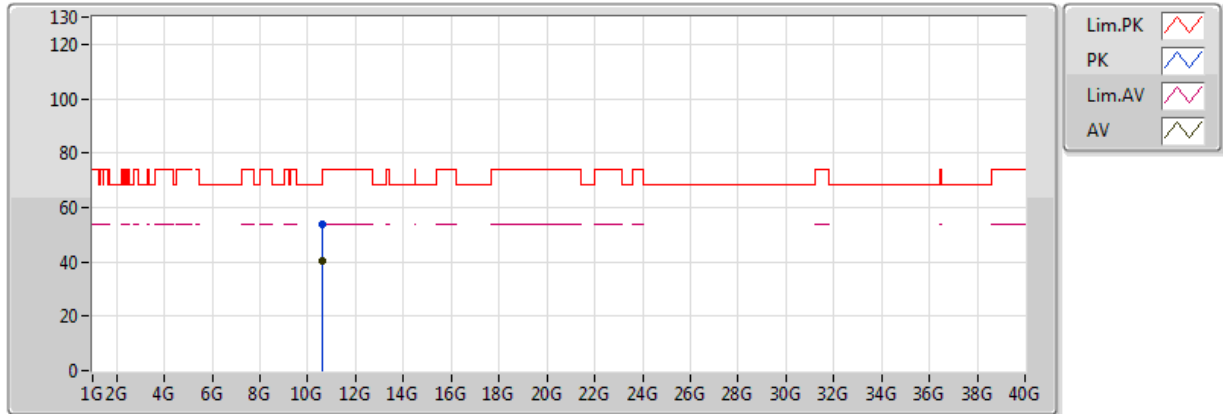


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.135G	52.46	54.00	-1.54	4.72	3	H	357	1.50	-
AV	5.304G	112.78	Inf	-Inf	5.06	3	H	357	1.50	-
AV	5.417G	53.71	54.00	-0.29	5.22	3	H	357	1.50	-
PK	5.143G	64.58	74.00	-9.42	4.75	3	H	357	1.50	-
PK	5.305G	122.55	Inf	-Inf	5.06	3	H	357	1.50	-
PK	5.496G	64.58	68.20	-3.62	5.58	3	H	357	1.50	-
PK	5.415G	66.14	74.00	-7.86	5.21	3	H	357	1.50	-

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

### 5300MHz\_TX

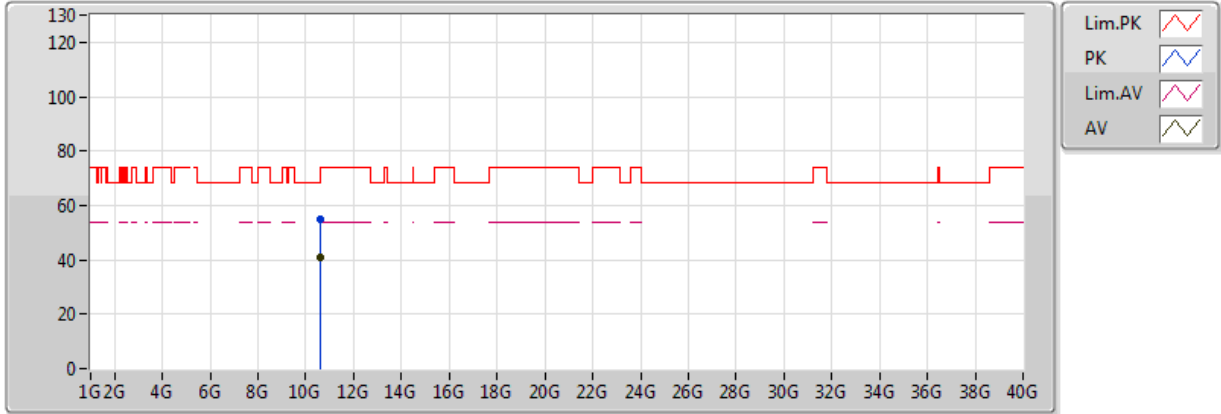


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.600452G	40.58	54.00	-13.42	14.05	3	V	38	1.13	-
PK	10.600812G	53.60	74.00	-20.40	14.05	3	V	38	1.13	-

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

### 5300MHz\_TX

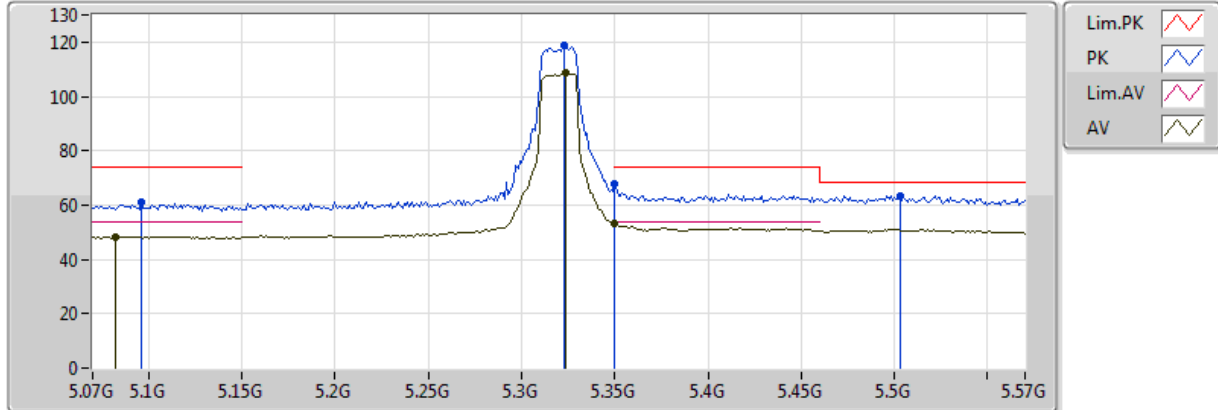


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.600188G	40.96	54.00	-13.04	14.05	3	H	210	1.12	-
PK	10.600552G	55.00	74.00	-19.00	14.05	3	H	210	1.12	-

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

### 5320MHz\_TX

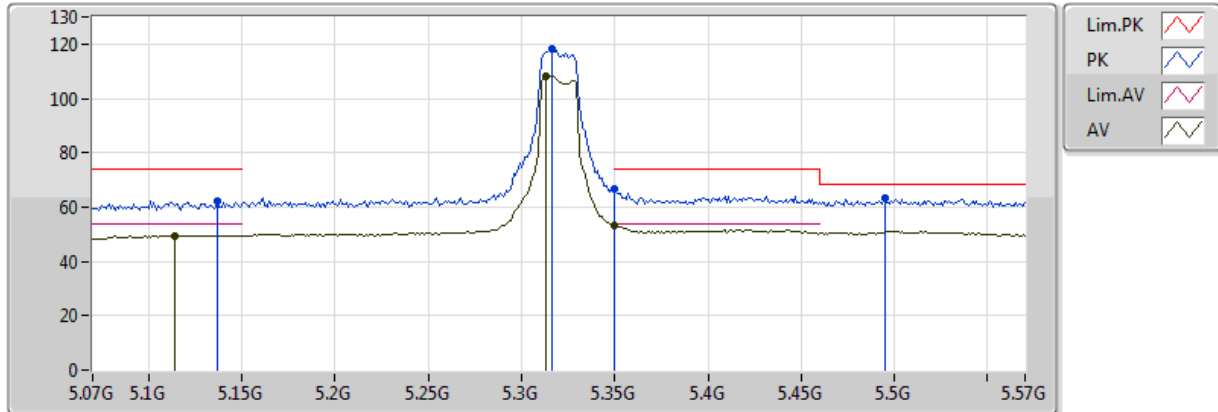


20170217  
EUT\_Y\_2TX  
Setting:18.5  
04-J-5-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.082G	48.46	54.00	-5.54	4.53	3	V	0	1.50	-
AV	5.324G	108.71	Inf	-Inf	5.08	3	V	0	1.50	-
AV	5.350005G	53.29	54.00	-0.71	5.10	3	V	0	1.50	-
PK	5.096G	60.90	74.00	-13.10	4.58	3	V	0	1.50	-
PK	5.323G	118.63	Inf	-Inf	5.08	3	V	0	1.50	-
PK	5.350005G	67.65	74.00	-6.35	5.10	3	V	0	1.50	-
PK	5.503G	63.58	68.20	-4.62	5.62	3	V	0	1.50	-

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

### 5320MHz\_TX

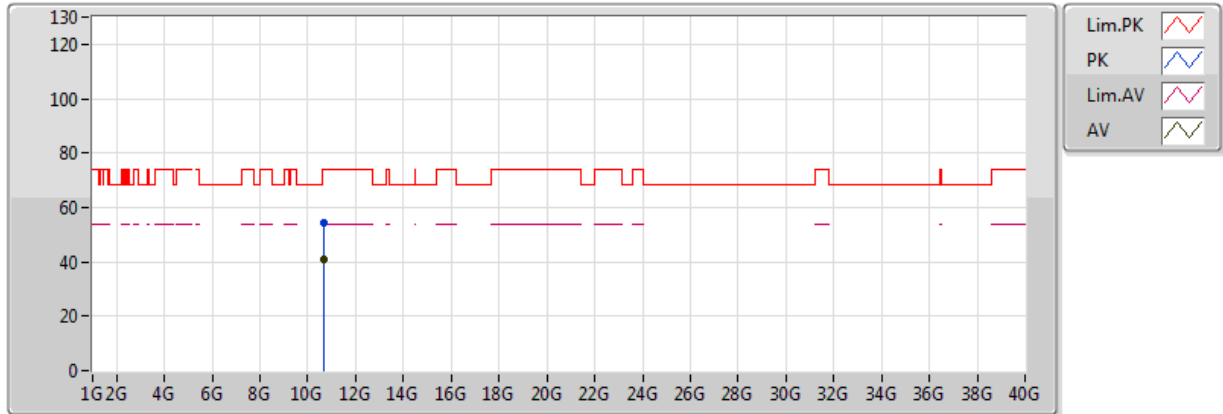


20170217  
 EUT\_Y\_2TX  
 Setting:18.5  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.114G	49.49	54.00	-4.51	4.65	3	H	352	1.48	-
AV	5.313G	108.34	Inf	-Inf	5.07	3	H	352	1.48	-
AV	5.350005G	53.36	54.00	-0.64	5.10	3	H	352	1.48	-
PK	5.137G	62.25	74.00	-11.75	4.73	3	H	352	1.48	-
PK	5.316G	118.51	Inf	-Inf	5.07	3	H	352	1.48	-
PK	5.350005G	66.59	74.00	-7.41	5.10	3	H	352	1.48	-
PK	5.495G	63.50	68.20	-4.70	5.58	3	H	352	1.48	-

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

### 5320MHz\_TX

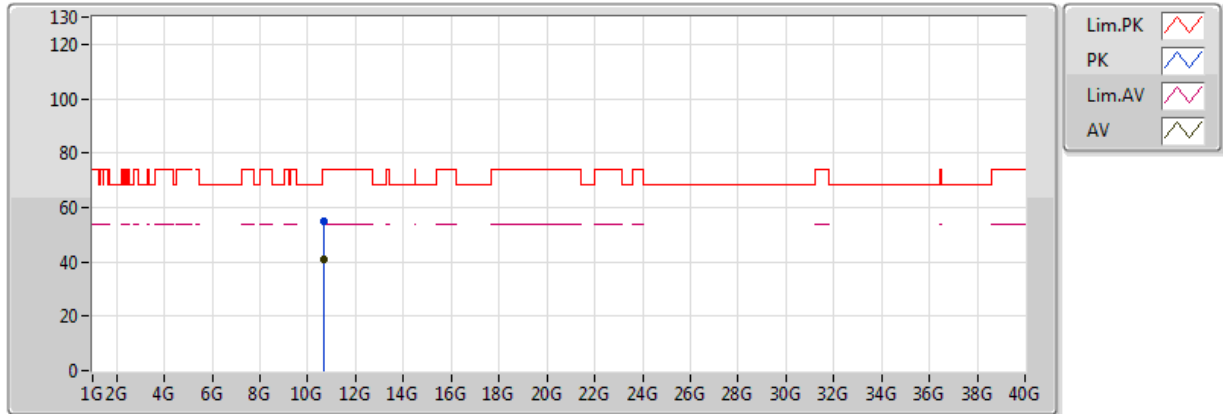


20170217  
 EUT\_Y\_2TX  
 Setting:18.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.63926G	41.10	54.00	-12.90	14.11	3	V	123	1.91	-
PK	10.640416G	54.23	74.00	-19.77	14.11	3	V	123	1.91	-

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

### 5320MHz\_TX

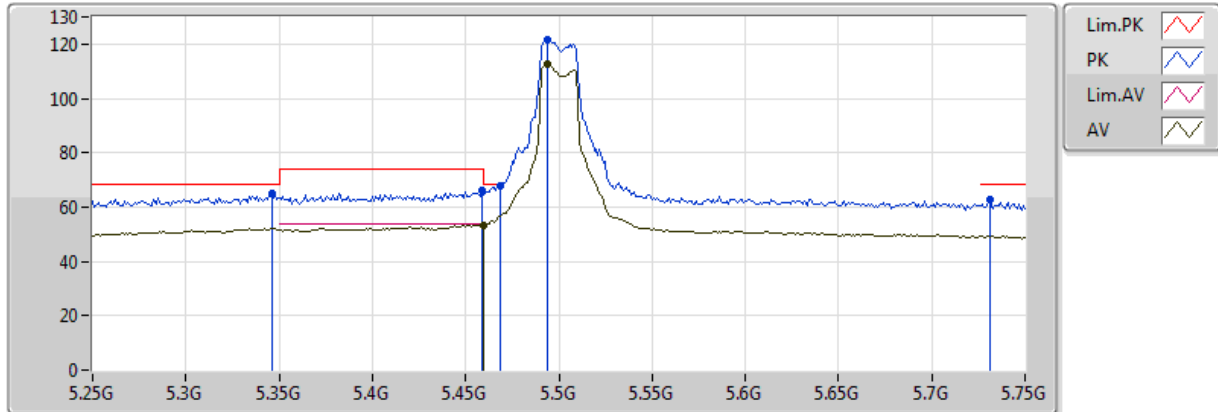


20170217  
 EUT\_Y\_2TX  
 Setting:18.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.640228G	41.18	54.00	-12.82	14.11	3	H	236	1.49	-
PK	10.639168G	54.72	74.00	-19.28	14.11	3	H	236	1.49	-

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

### 5500MHz\_TX



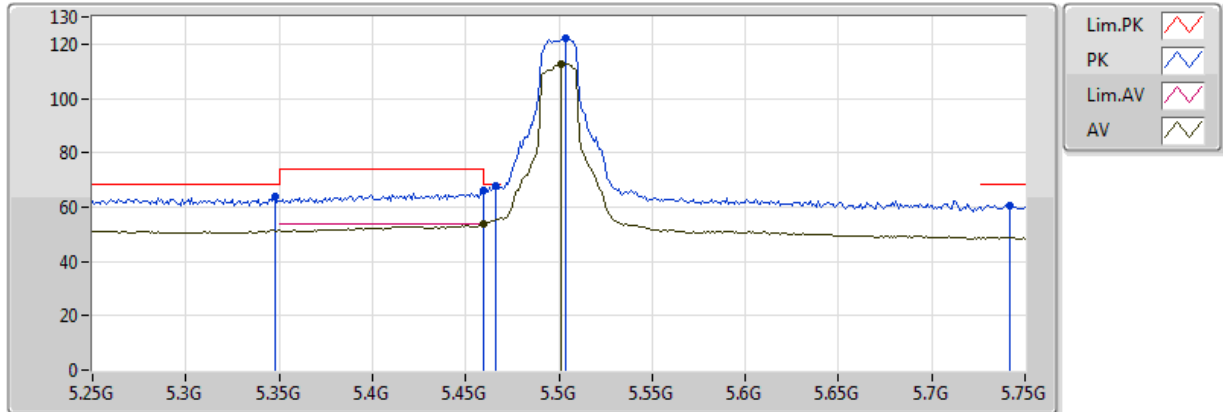
20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.46G	53.48	54.00	-0.52	5.42	3	V	360	1.45	-
AV	5.494G	112.48	Inf	-Inf	5.57	3	V	360	1.45	-
PK	5.346G	64.97	68.20	-3.23	5.10	3	V	360	1.45	-
PK	5.459G	65.94	74.00	-8.06	5.41	3	V	360	1.45	-
PK	5.469G	68.06	68.20	-0.14	5.46	3	V	360	1.45	-
PK	5.494G	121.83	Inf	-Inf	5.57	3	V	360	1.45	-
PK	5.731G	62.57	68.20	-5.63	6.31	3	V	360	1.45	-



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

### 5500MHz\_TX

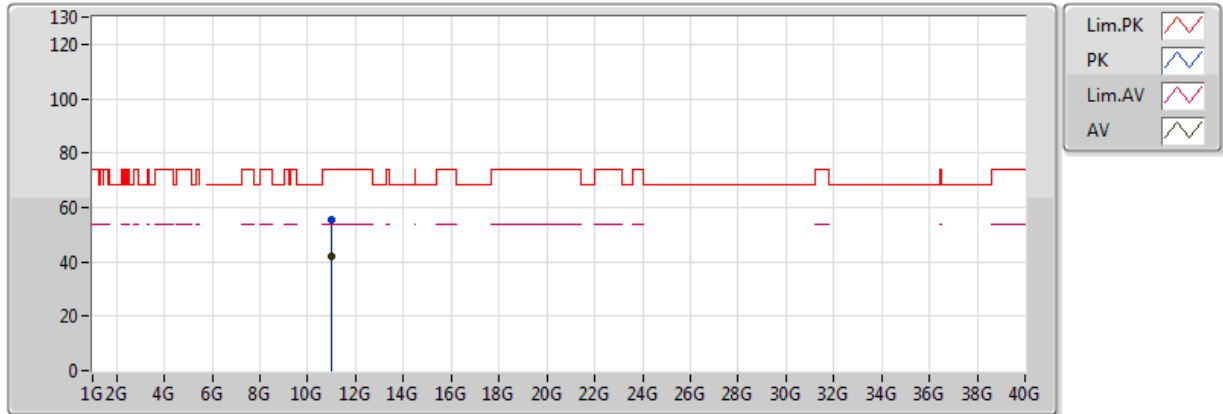


20170217  
EUT\_Y\_2TX  
Setting:21  
04-J-5-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.46G	53.74	54.00	-0.26	5.42	3	H	351	1.50	-
AV	5.501G	112.62	Inf	-Inf	5.61	3	H	351	1.50	-
PK	5.348G	63.92	68.20	-4.28	5.10	3	H	351	1.50	-
PK	5.46G	66.26	74.00	-7.74	5.42	3	H	351	1.50	-
PK	5.466G	68.05	68.20	-0.15	5.44	3	H	351	1.50	-
PK	5.504G	122.27	Inf	-Inf	5.62	3	H	351	1.50	-
PK	5.742G	60.61	68.20	-7.59	6.32	3	H	351	1.50	-

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

### 5500MHz\_TX

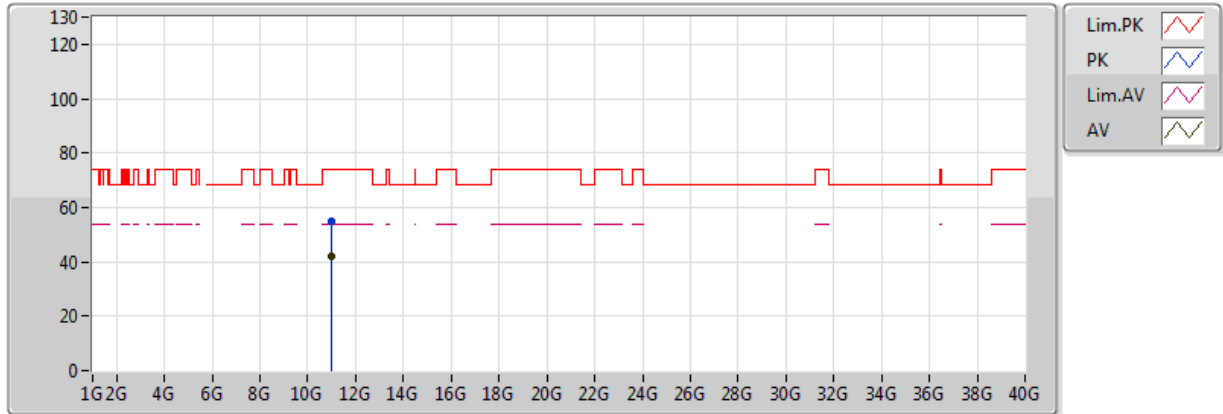


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.000264G	41.78	54.00	-12.22	14.63	3	V	340	1.32	-
PK	11.00022G	55.52	74.00	-18.48	14.63	3	V	340	1.32	-

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

### 5500MHz\_TX

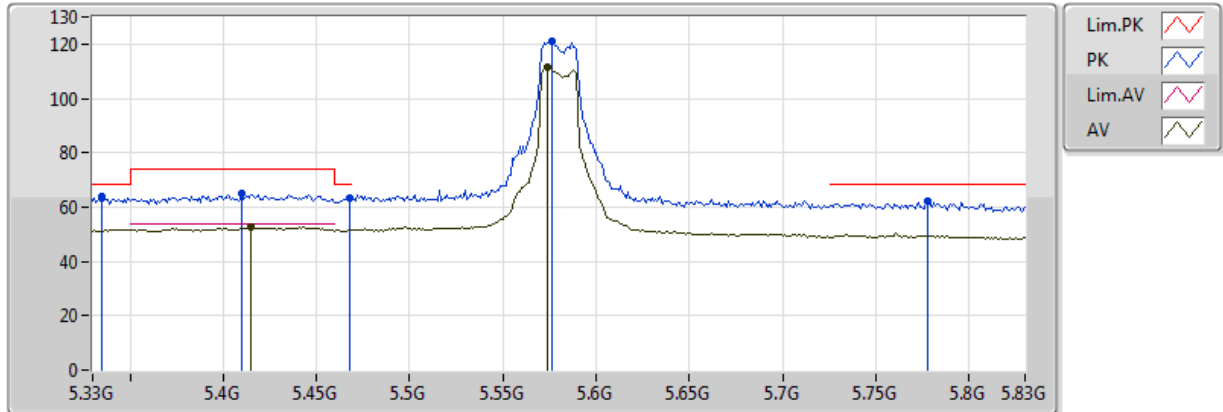


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.000636G	41.75	54.00	-12.25	14.63	3	H	26	1.89	-
PK	10.99928G	54.97	74.00	-19.03	14.63	3	H	26	1.89	-

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

### 5580MHz\_TX

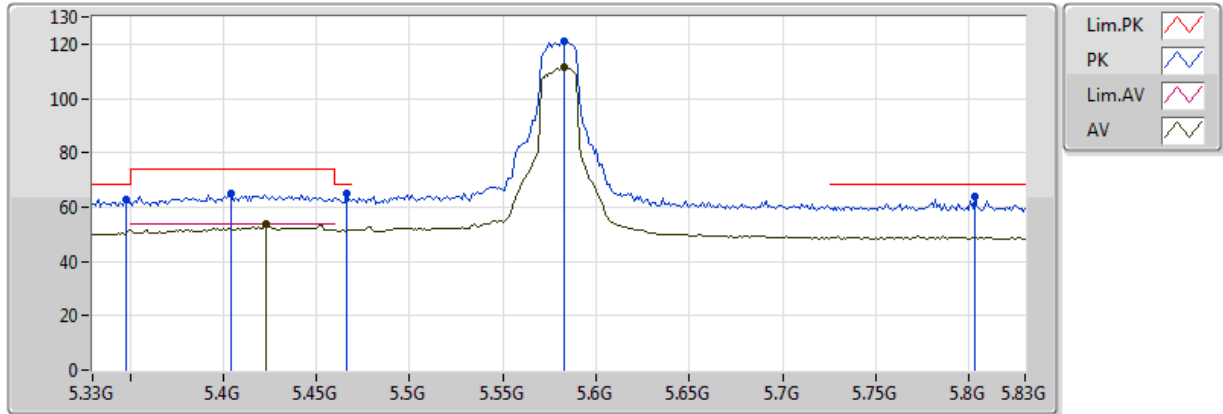


20170217  
 EUT\_Y\_2TX  
 Setting:20.5  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.415G	52.59	54.00	-1.41	5.21	3	V	359	1.49	-
AV	5.574G	111.45	Inf	-Inf	6.01	3	V	359	1.49	-
PK	5.335G	63.63	68.20	-4.57	5.09	3	V	359	1.49	-
PK	5.41G	64.75	74.00	-9.25	5.19	3	V	359	1.49	-
PK	5.468G	63.42	68.20	-4.78	5.45	3	V	359	1.49	-
PK	5.576G	121.08	Inf	-Inf	6.02	3	V	359	1.49	-
PK	5.778G	62.08	68.20	-6.12	6.36	3	V	359	1.49	-

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

### 5580MHz\_TX

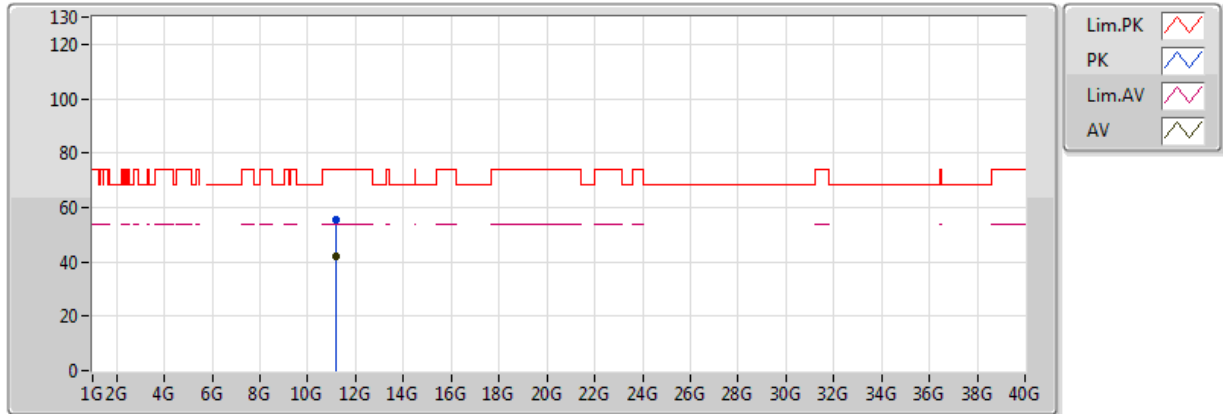


20170217  
 EUT\_Y\_2TX  
 Setting:20.5  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.423G	53.89	54.00	-0.11	5.25	3	H	343	1.50	-
AV	5.583G	111.37	Inf	-Inf	6.06	3	H	343	1.50	-
PK	5.348G	62.74	68.20	-5.46	5.10	3	H	343	1.50	-
PK	5.404G	65.02	74.00	-8.98	5.16	3	H	343	1.50	-
PK	5.466G	65.23	68.20	-2.97	5.44	3	H	343	1.50	-
PK	5.583G	121.25	Inf	-Inf	6.06	3	H	343	1.50	-
PK	5.803G	64.09	68.20	-4.11	6.41	3	H	343	1.50	-

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

### 5580MHz\_TX

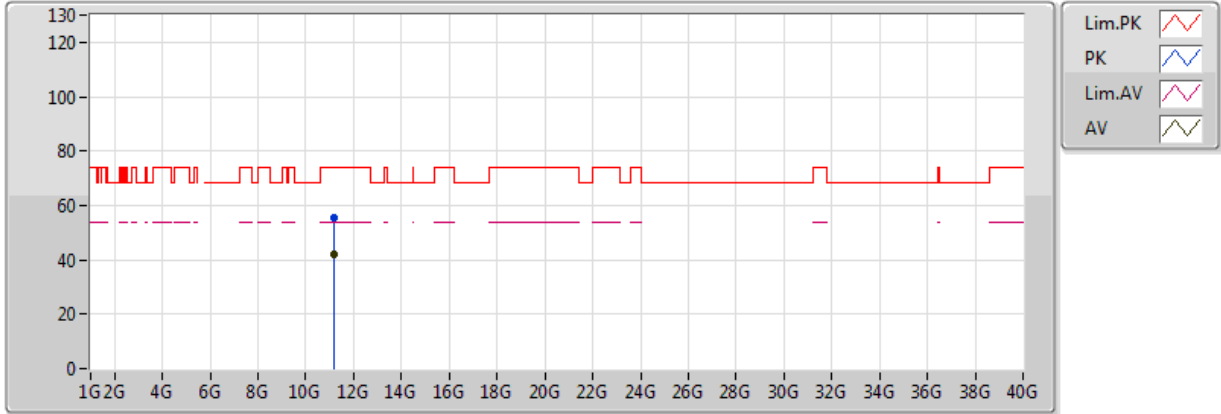


20170217  
 EUT\_Y\_2TX  
 Setting:20.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.159968G	41.85	54.00	-12.15	14.67	3	V	259	2.21	-
PK	11.160244G	55.63	74.00	-18.37	14.67	3	V	259	2.21	-

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

### 5580MHz\_TX

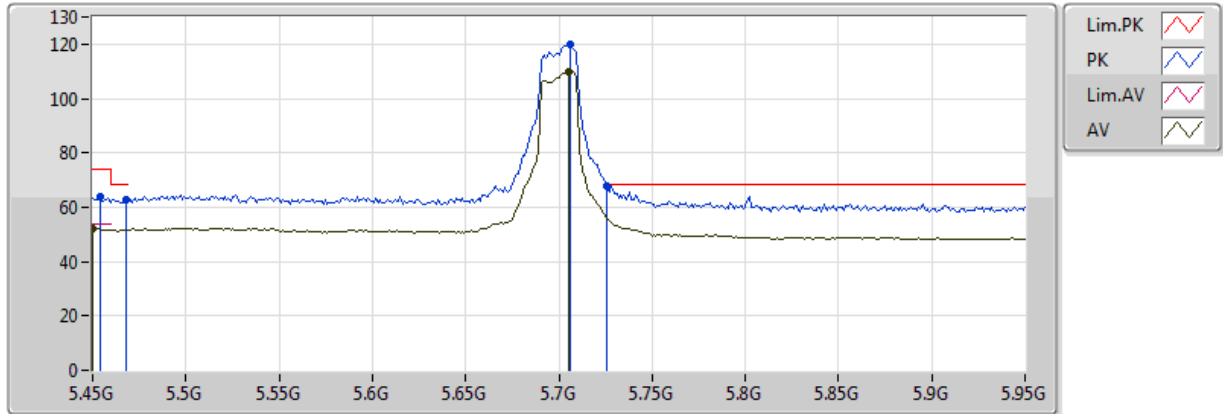


20170217  
 EUT\_Y\_2TX  
 Setting:20.5  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.159672G	41.80	54.00	-12.20	14.67	3	H	6	2.05	-
PK	11.159016G	55.49	74.00	-18.51	14.67	3	H	6	2.05	-

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

### 5700MHz\_TX



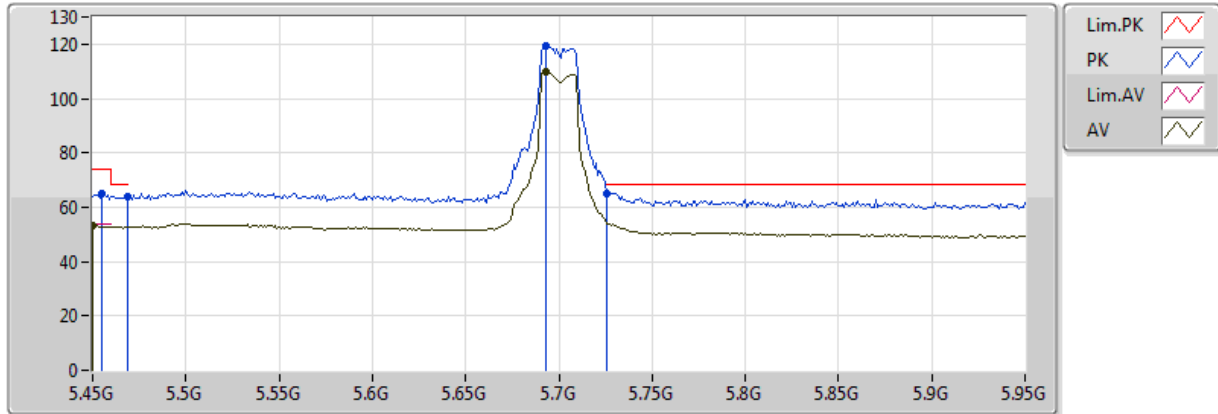
20170217  
 EUT\_Y\_2TX  
 Setting:20  
 04-J-5-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.45G	52.07	54.00	-1.93	5.37	3	V	358	1.50	-
AV	5.705G	110.03	Inf	-Inf	6.28	3	V	358	1.50	-
PK	5.454G	64.04	74.00	-9.96	5.39	3	V	358	1.50	-
PK	5.468G	62.97	68.20	-5.23	5.45	3	V	358	1.50	-
PK	5.706G	119.89	Inf	-Inf	6.28	3	V	358	1.50	-
PK	5.726G	68.02	68.20	-0.18	6.30	3	V	358	1.50	-



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

### 5700MHz\_TX

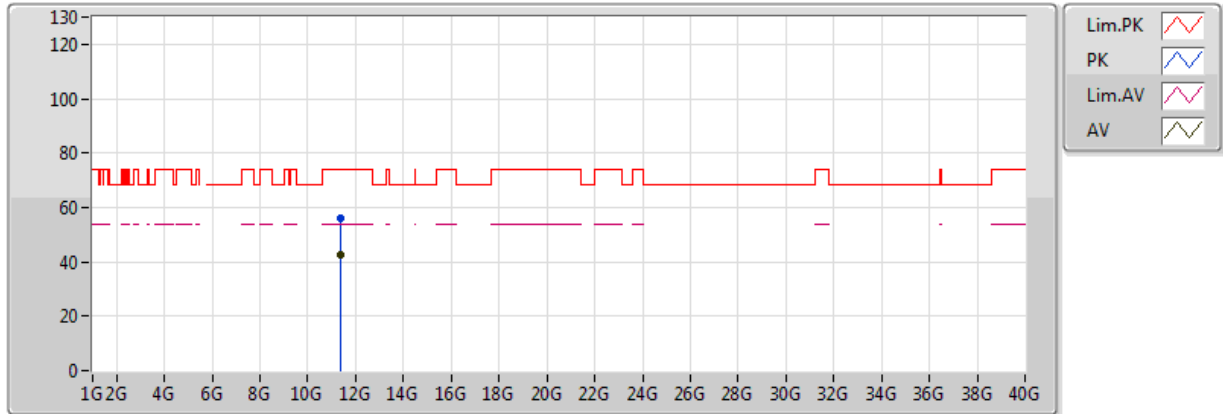


20170217  
EUT\_Y\_2TX  
Setting:20  
04-J-5-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.45G	53.33	54.00	-0.67	5.37	3	H	5	1.50	-
AV	5.693G	110.04	Inf	-Inf	6.26	3	H	5	1.50	-
PK	5.455G	64.98	74.00	-9.02	5.39	3	H	5	1.50	-
PK	5.469G	64.13	68.20	-4.07	5.46	3	H	5	1.50	-
PK	5.693G	119.25	Inf	-Inf	6.26	3	H	5	1.50	-
PK	5.726G	65.14	68.20	-3.06	6.30	3	H	5	1.50	-

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

### 5700MHz\_TX

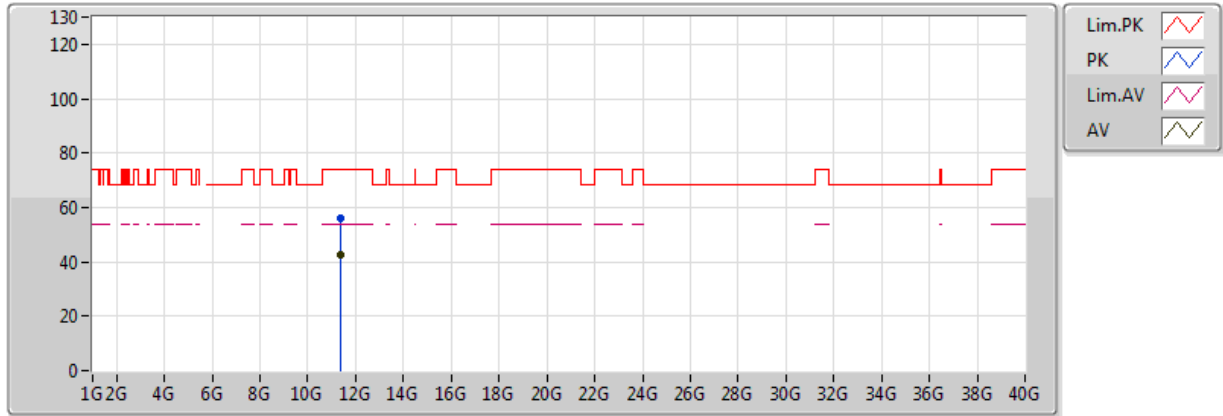


20170217  
 EUT\_Y\_2TX  
 Setting:20  
 04-J-5  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.400008G	42.46	54.00	-11.54	14.73	3	V	104	1.68	-
PK	11.399152G	55.87	74.00	-18.13	14.73	3	V	104	1.68	-

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

### 5700MHz\_TX

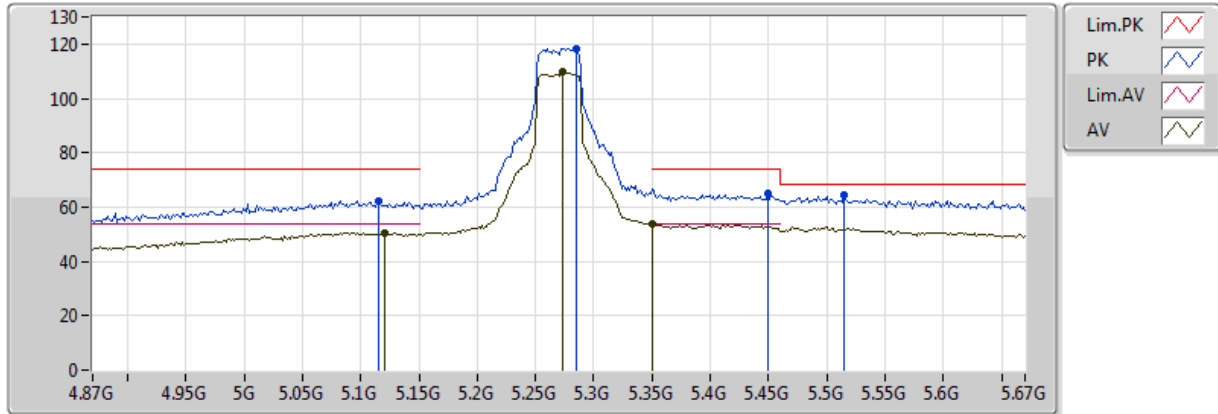


20170217  
EUT\_Y\_2TX  
Setting:20  
04-J-5  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.400092G	42.33	54.00	-11.67	14.73	3	H	358	1.34	-
PK	11.399228G	55.78	74.00	-18.22	14.73	3	H	358	1.34	-

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

### 5270MHz\_TX

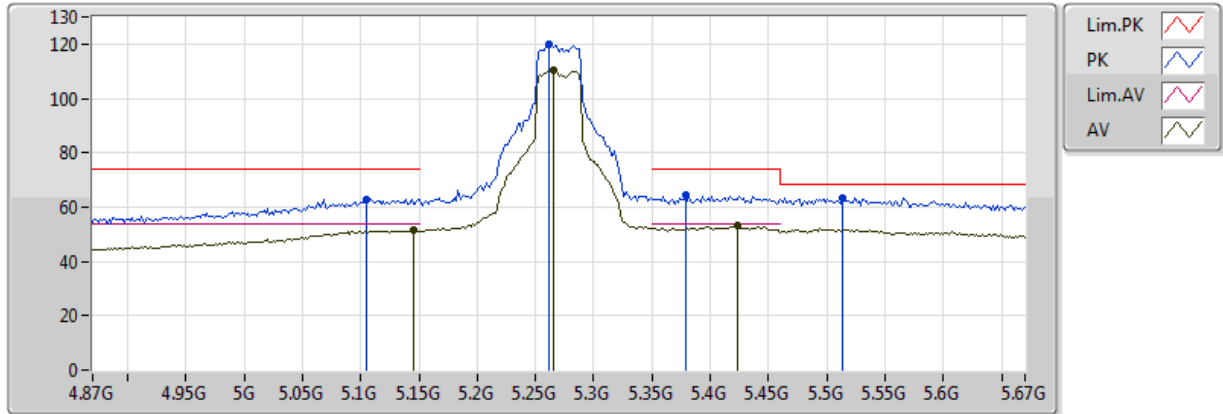


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-4-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1212G	50.68	54.00	-3.32	4.67	3	V	5	1.40	-
AV	5.2732G	109.56	Inf	-Inf	5.03	3	V	5	1.40	-
AV	5.350005G	53.86	54.00	-0.14	5.10	3	V	5	1.40	-
PK	5.1148G	62.27	74.00	-11.73	4.65	3	V	5	1.40	-
PK	5.2844G	118.27	Inf	-Inf	5.04	3	V	5	1.40	-
PK	5.4492G	64.85	74.00	-9.15	5.37	3	V	5	1.40	-
PK	5.5148G	64.22	68.20	-3.98	5.68	3	V	5	1.40	-

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

### 5270MHz\_TX

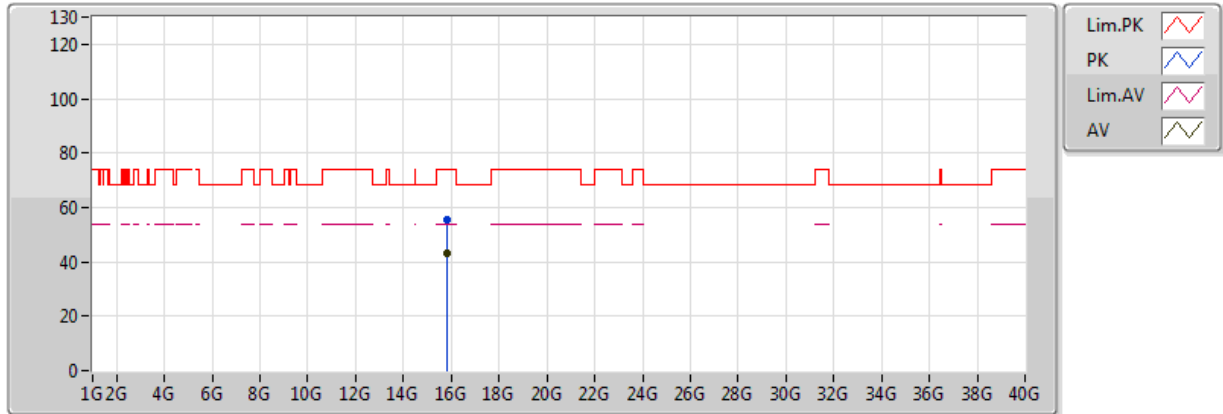


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1452G	51.43	54.00	-2.57	4.76	3	H	0	1.50	-
AV	5.2652G	110.51	Inf	-Inf	5.02	3	H	0	1.50	-
AV	5.4236G	53.00	54.00	-1.00	5.25	3	H	0	1.50	-
PK	5.1052G	62.84	74.00	-11.16	4.62	3	H	0	1.50	-
PK	5.262G	119.82	Inf	-Inf	5.02	3	H	0	1.50	-
PK	5.3788G	64.20	74.00	-9.80	5.12	3	H	0	1.50	-
PK	5.5132G	63.47	68.20	-4.73	5.67	3	H	0	1.50	-

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

### 5270MHz\_TX

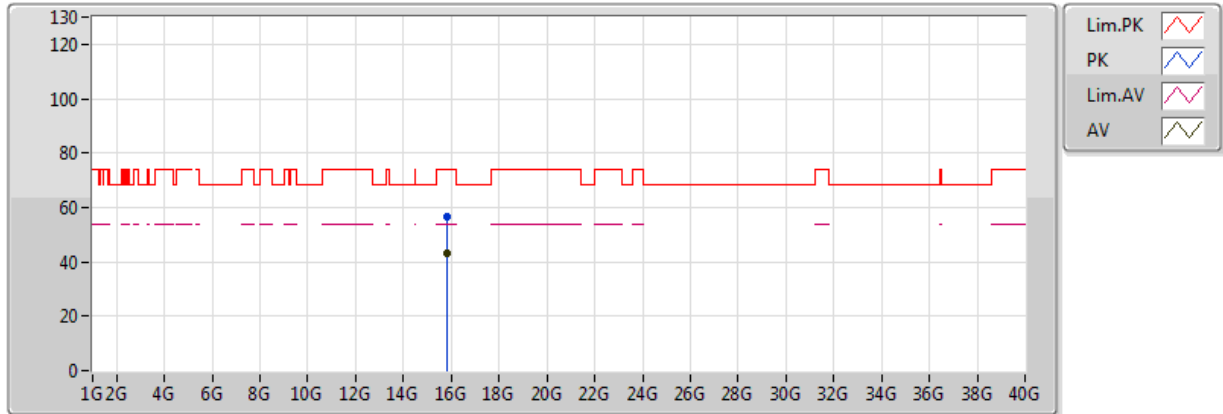


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-4  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.810708G	43.15	54.00	-10.85	15.58	3	V	263	2.43	-
PK	15.809396G	55.60	74.00	-18.40	15.58	3	V	263	2.43	-

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

### 5270MHz\_TX

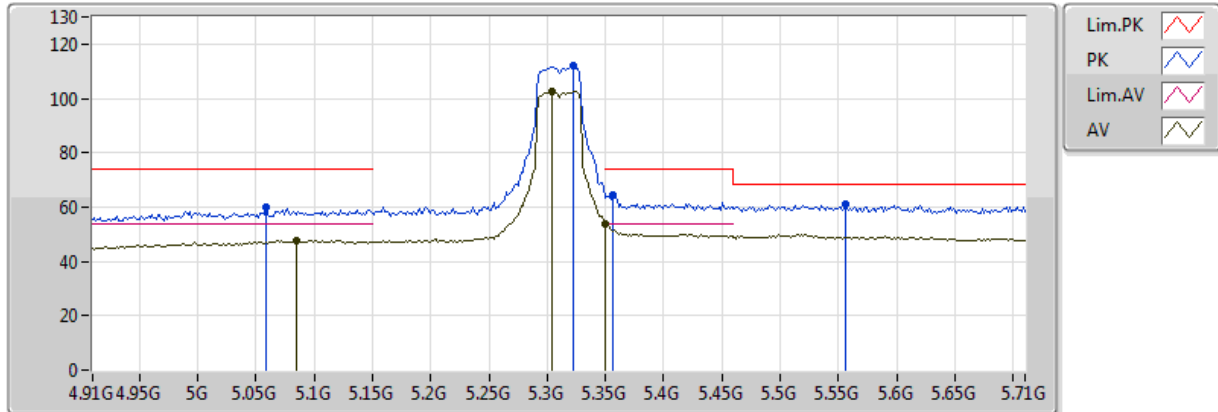


20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-4  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.810692G	42.88	54.00	-11.12	15.58	3	H	263	1.23	-
PK	15.81078G	56.43	74.00	-17.57	15.58	3	H	263	1.23	-

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

### 5310MHz\_TX



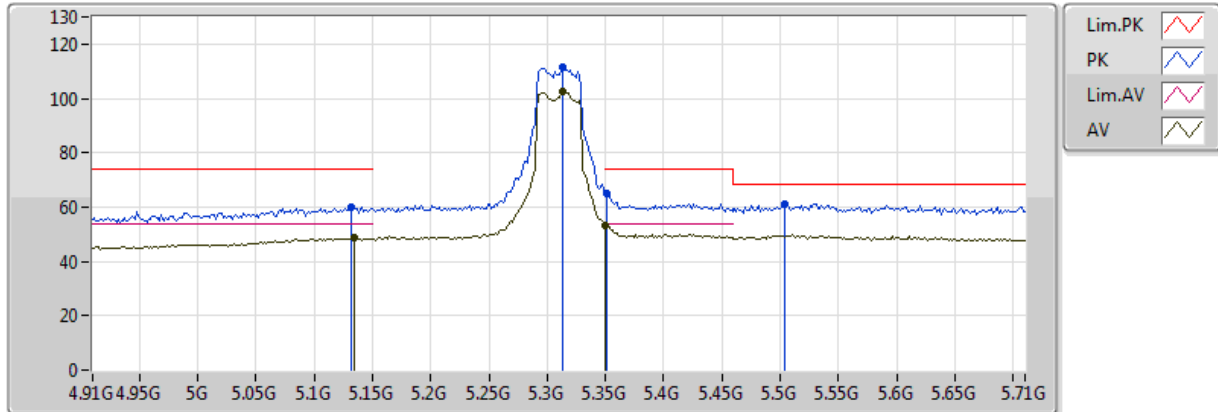
20170217  
 EUT\_Y\_2TX  
 Setting:15  
 04-J-4-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.0844G	47.68	54.00	-6.32	4.54	3	V	5	1.50	-
AV	5.3036G	102.77	Inf	-Inf	5.06	3	V	5	1.50	-
AV	5.350005G	53.90	54.00	-0.10	5.10	3	V	5	1.50	-
PK	5.0588G	60.09	74.00	-13.91	4.44	3	V	5	1.50	-
PK	5.3228G	112.33	Inf	-Inf	5.08	3	V	5	1.50	-
PK	5.3564G	64.19	74.00	-9.81	5.11	3	V	5	1.50	-
PK	5.5564G	61.03	68.20	-7.17	5.91	3	V	5	1.50	-



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

### 5310MHz\_TX

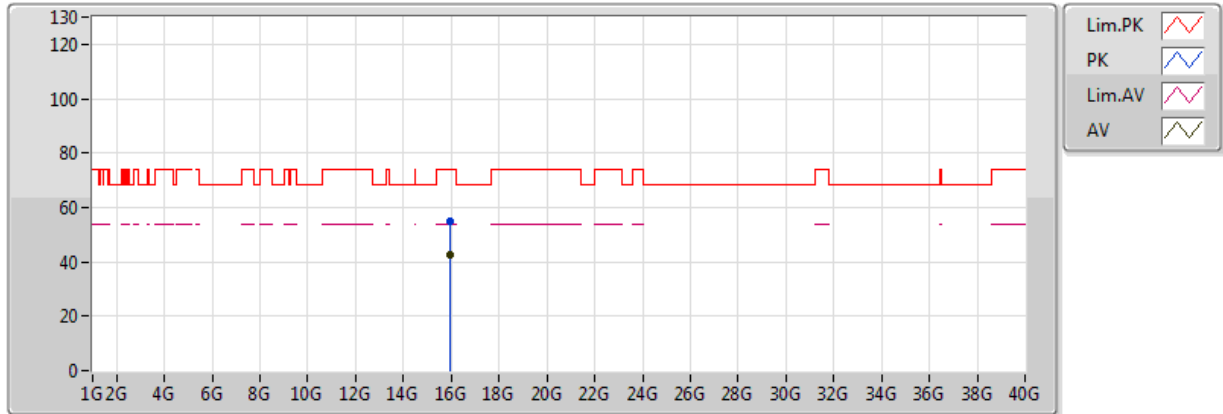


20170217  
EUT\_Y\_2TX  
Setting:15  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.134G	48.84	54.00	-5.16	4.72	3	H	359	1.50	-
AV	5.3132G	102.49	Inf	-Inf	5.07	3	H	359	1.50	-
AV	5.350005G	53.47	54.00	-0.53	5.10	3	H	359	1.50	-
PK	5.1324G	59.88	74.00	-14.12	4.71	3	H	359	1.50	-
PK	5.3132G	111.70	Inf	-Inf	5.07	3	H	359	1.50	-
PK	5.3516G	64.95	74.00	-9.05	5.10	3	H	359	1.50	-
PK	5.5036G	61.14	68.20	-7.06	5.62	3	H	359	1.50	-

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

### 5310MHz\_TX

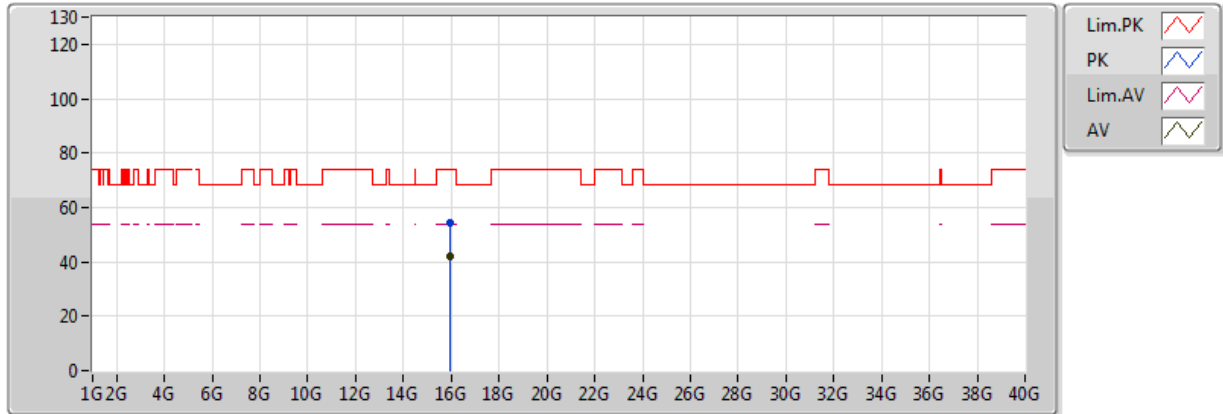


20170217  
 EUT\_Y\_2TX  
 Setting:15  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.929688G	42.37	54.00	-11.63	15.52	3	V	119	2.22	-
PK	15.9297G	54.90	74.00	-19.10	15.52	3	V	119	2.22	-

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

### 5310MHz\_TX

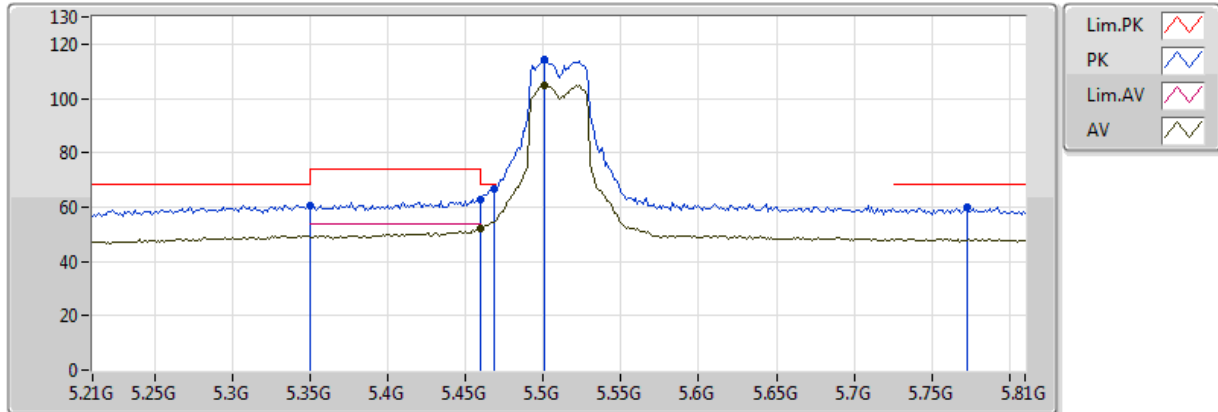


20170217  
 EUT\_Y\_2TX  
 Setting:15  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.930752G	42.16	54.00	-11.84	15.52	3	H	259	1.65	-
PK	15.929992G	54.32	74.00	-19.68	15.52	3	H	259	1.65	-

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

### 5510MHz\_TX

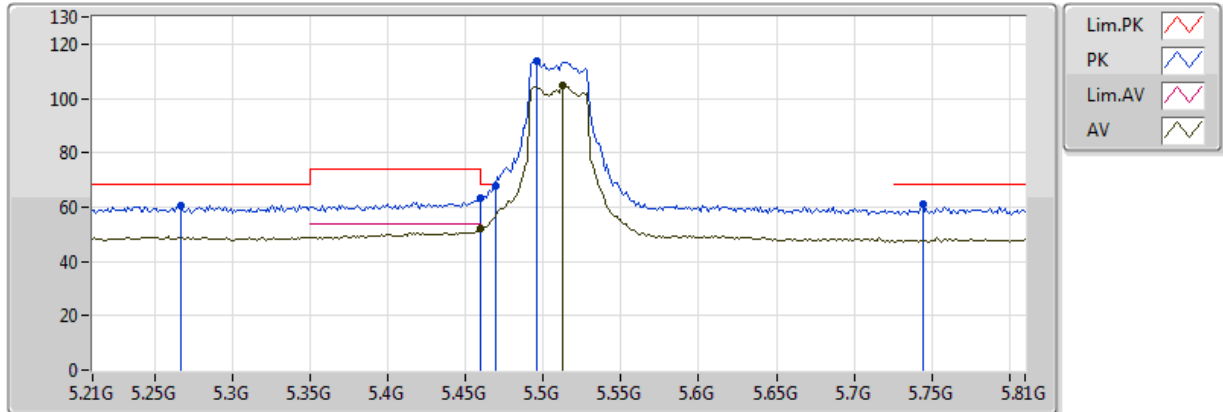


20170217  
EUT\_Y\_2TX  
Setting:15  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.459995G	52.14	54.00	-1.86	5.42	3	V	0	1.57	-
AV	5.5004G	104.78	Inf	-Inf	5.60	3	V	0	1.57	-
PK	5.349995G	60.77	68.20	-7.43	5.10	3	V	0	1.57	-
PK	5.4596G	63.00	74.00	-11.00	5.41	3	V	0	1.57	-
PK	5.468G	66.49	68.20	-1.71	5.45	3	V	0	1.57	-
PK	5.5004G	114.23	Inf	-Inf	5.60	3	V	0	1.57	-
PK	5.7728G	60.17	68.20	-8.03	6.36	3	V	0	1.57	-

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

### 5510MHz\_TX

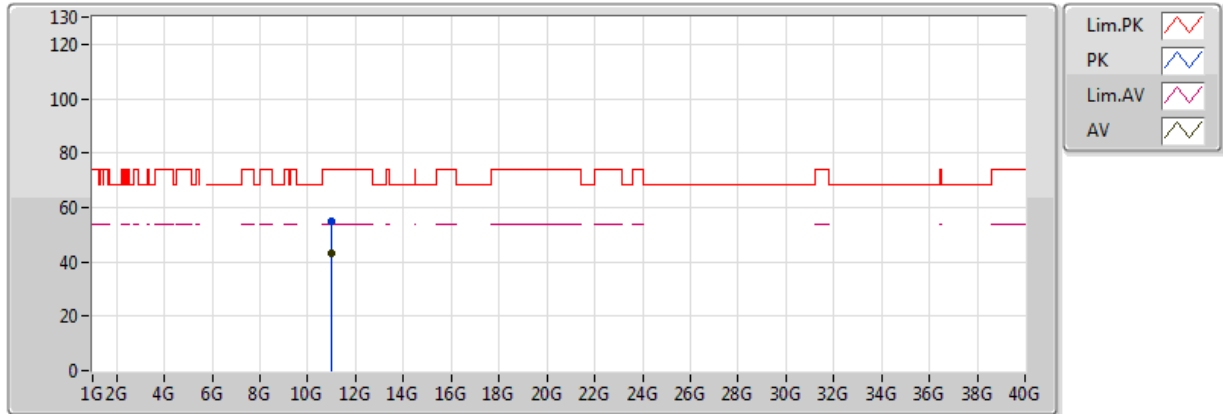


20170217  
EUT\_Y\_2TX  
Setting:15  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.459995G	51.90	54.00	-2.10	5.42	3	V	353	1.50	-
AV	5.5124G	104.62	Inf	-Inf	5.67	3	V	353	1.50	-
PK	5.2664G	60.62	68.20	-7.58	5.02	3	V	353	1.50	-
PK	5.4596G	63.18	74.00	-10.82	5.41	3	V	353	1.50	-
PK	5.4692G	68.07	68.20	-0.13	5.46	3	V	353	1.50	-
PK	5.4956G	113.55	Inf	-Inf	5.58	3	V	353	1.50	-
PK	5.744G	60.88	68.20	-7.32	6.32	3	V	353	1.50	-

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

### 5510MHz\_TX

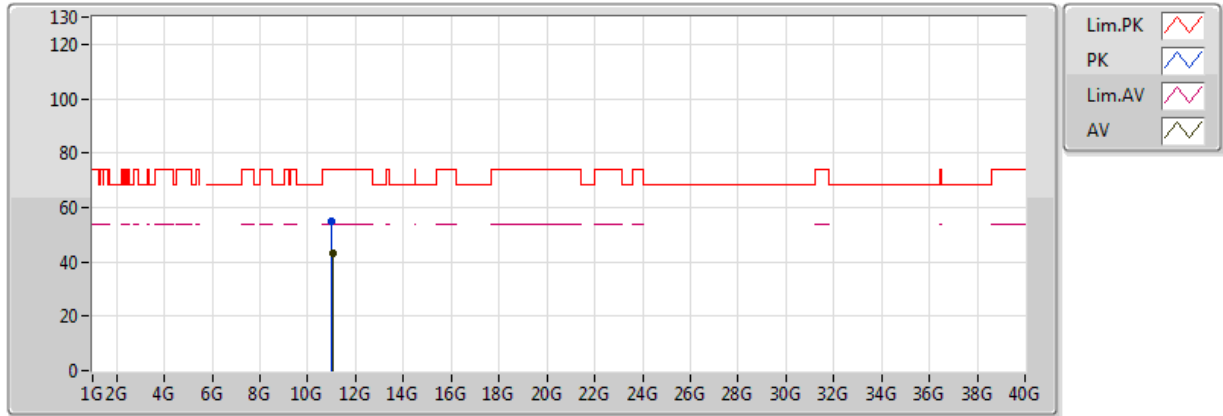


20170217  
 EUT\_Y\_2TX  
 Setting:15  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.020104G	42.93	54.00	-11.07	14.63	3	V	307	2.32	-
PK	11.019416G	55.11	74.00	-18.89	14.63	3	V	307	2.32	-

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

### 5510MHz\_TX

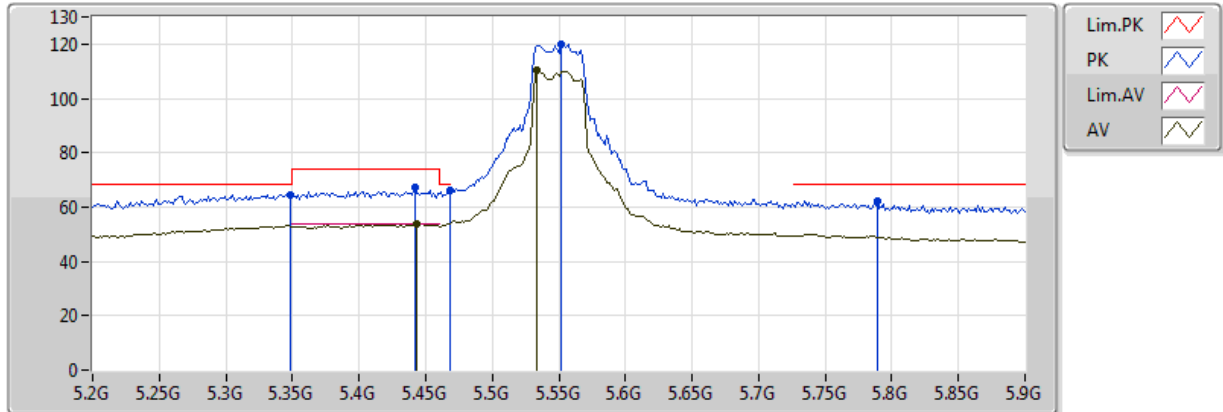


20170217  
EUT\_Y\_2TX  
Setting:15  
04-J-4  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.02092G	43.25	54.00	-10.75	14.64	3	H	14	2.20	-
PK	11.019284G	55.18	74.00	-18.82	14.63	3	H	14	2.20	-

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

### 5550MHz\_TX



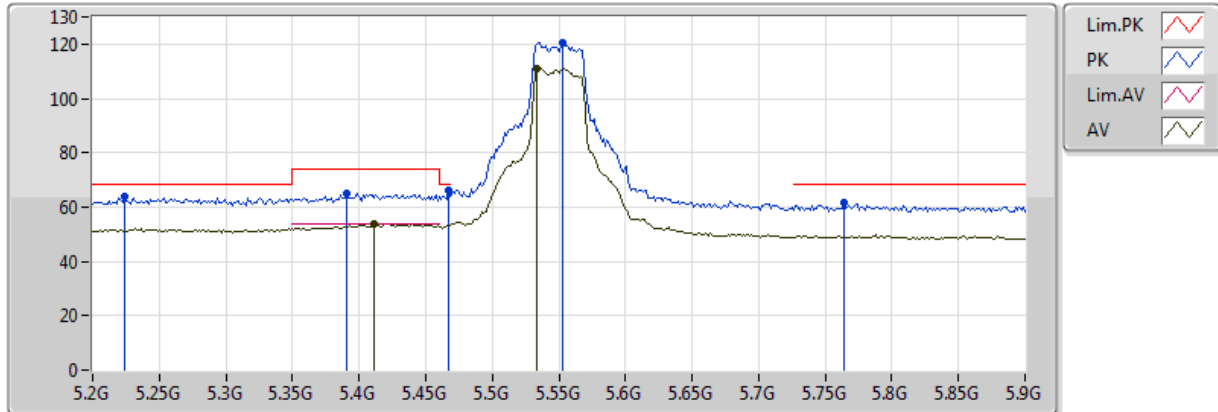
20170217  
EUT\_Y\_2TX  
Setting:22.5  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4436G	53.90	54.00	-0.10	5.34	3	V	1	1.50	-
AV	5.5332G	110.12	Inf	-Inf	5.78	3	V	1	1.50	-
PK	5.3484G	64.40	68.20	-3.80	5.10	3	V	1	1.50	-
PK	5.4422G	67.00	74.00	-7.00	5.33	3	V	1	1.50	-
PK	5.4688G	66.20	68.20	-2.00	5.46	3	V	1	1.50	-
PK	5.5514G	119.86	Inf	-Inf	5.88	3	V	1	1.50	-
PK	5.7894G	62.10	68.20	-6.10	6.38	3	V	1	1.50	-



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

### 5550MHz\_TX

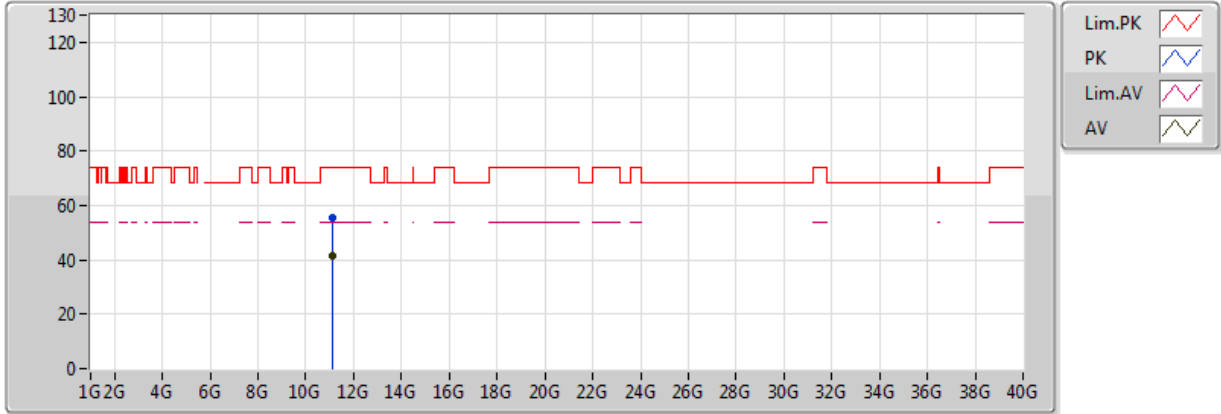


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-4-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4114G	53.71	54.00	-0.29	5.19	3	H	355	1.50	-
AV	5.5332G	111.07	Inf	-Inf	5.78	3	H	355	1.50	-
PK	5.2238G	63.90	68.20	-4.30	4.98	3	H	355	1.50	-
PK	5.3904G	65.12	74.00	-8.88	5.13	3	H	355	1.50	-
PK	5.4674G	65.85	68.20	-2.35	5.45	3	H	355	1.50	-
PK	5.5528G	120.54	Inf	-Inf	5.89	3	H	355	1.50	-
PK	5.7642G	61.39	68.20	-6.81	6.35	3	H	355	1.50	-

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

### 5550MHz\_TX

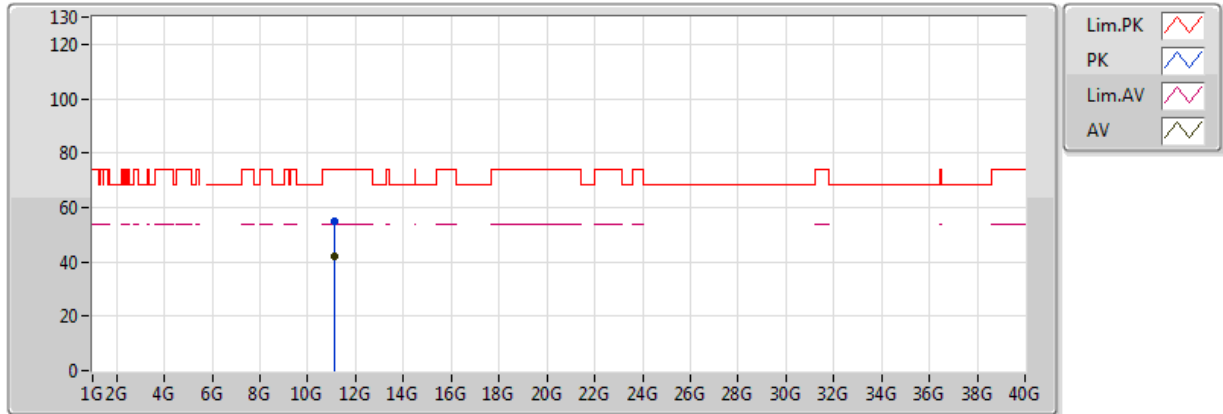


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.100572G	41.74	54.00	-12.26	14.65	3	V	47	1.24	-
PK	11.09906G	55.51	74.00	-18.49	14.65	3	V	47	1.24	-

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

### 5550MHz\_TX

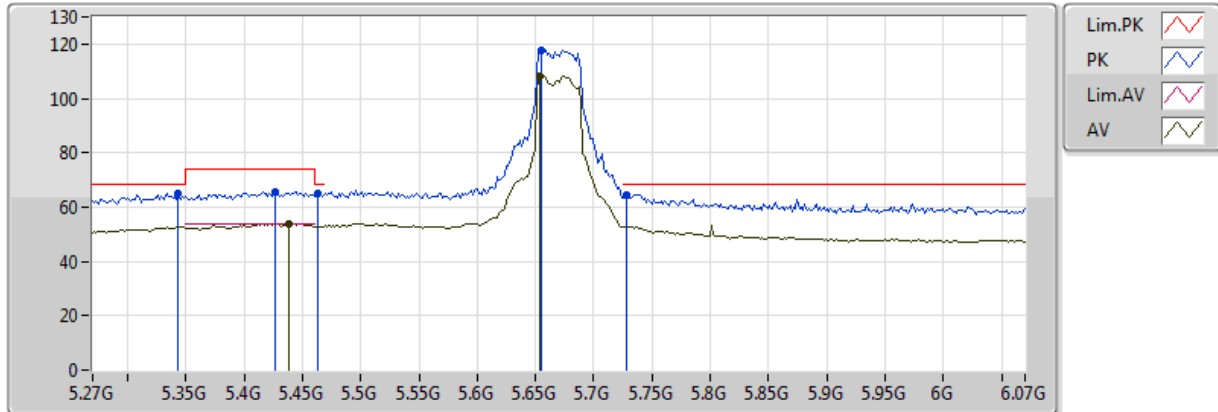


20170217  
 EUT\_Y\_2TX  
 Setting:22.5  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.100632G	41.79	54.00	-12.21	14.65	3	H	182	1.70	-
PK	11.099272G	54.89	74.00	-19.11	14.65	3	H	182	1.70	-

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

### 5670MHz\_TX

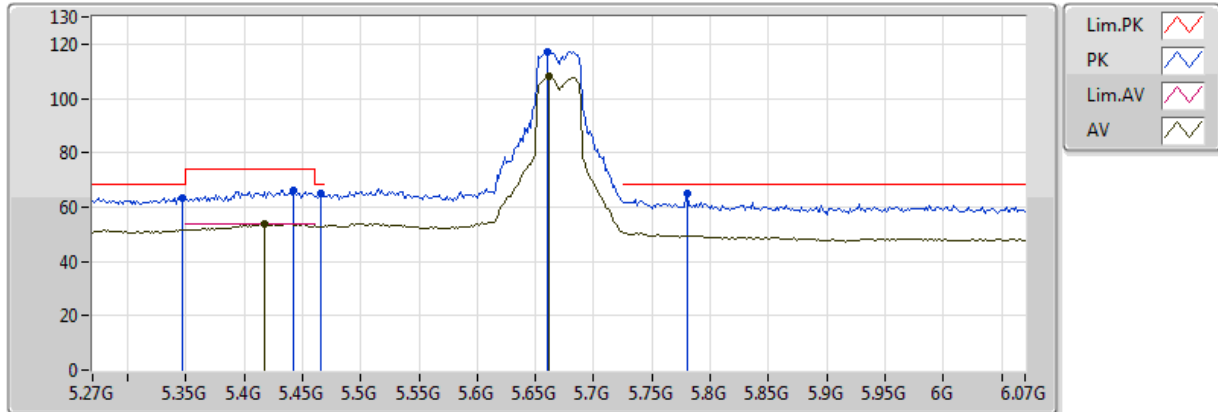


20170217  
EUT\_Y\_2TX  
Setting:21  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.438G	53.99	54.00	-0.01	5.31	3	V	355	1.50	-
AV	5.654G	108.17	Inf	-Inf	6.21	3	V	355	1.50	-
PK	5.3436G	65.19	68.20	-3.01	5.09	3	V	355	1.50	-
PK	5.4268G	65.57	74.00	-8.43	5.26	3	V	355	1.50	-
PK	5.4636G	64.96	68.20	-3.24	5.43	3	V	355	1.50	-
PK	5.6556G	117.95	Inf	-Inf	6.22	3	V	355	1.50	-
PK	5.7276G	64.50	68.20	-3.70	6.30	3	V	355	1.50	-

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

### 5670MHz\_TX

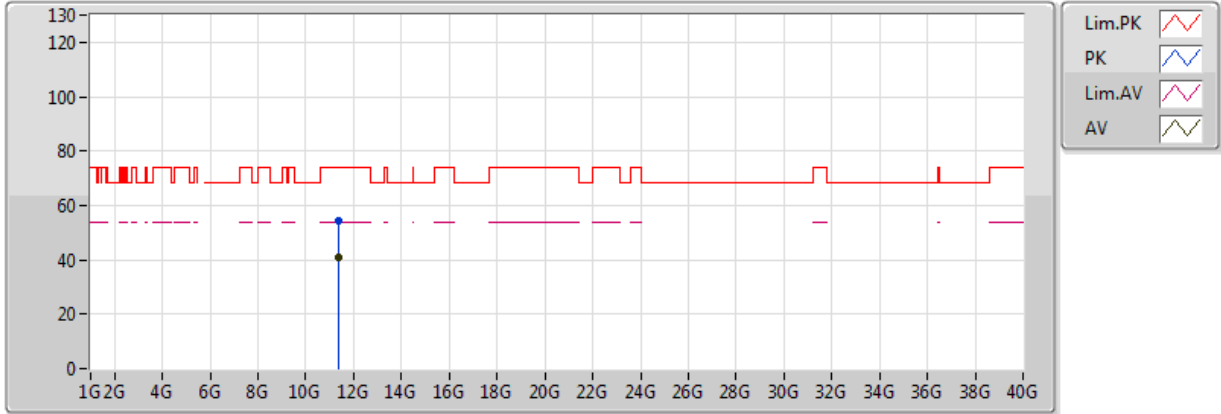


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-4-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4172G	53.95	54.00	-0.05	5.22	3	H	345	1.50	-
AV	5.662G	107.95	Inf	-Inf	6.22	3	H	345	1.50	-
PK	5.3468G	63.45	68.20	-4.75	5.10	3	H	345	1.50	-
PK	5.4428G	66.29	74.00	-7.71	5.34	3	H	345	1.50	-
PK	5.4652G	64.81	68.20	-3.39	5.44	3	H	345	1.50	-
PK	5.6604G	117.13	Inf	-Inf	6.22	3	H	345	1.50	-
PK	5.7804G	64.77	68.20	-3.43	6.37	3	H	345	1.50	-

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

### 5670MHz\_TX

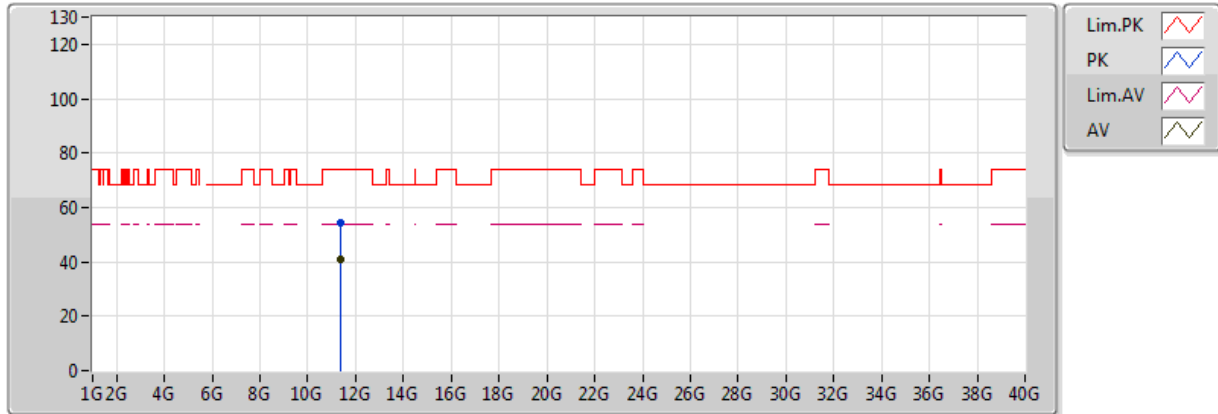


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.340608G	41.10	54.00	-12.90	14.71	3	V	76	1.29	-
PK	11.340524G	54.41	74.00	-19.59	14.71	3	V	76	1.29	-

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

### 5670MHz\_TX

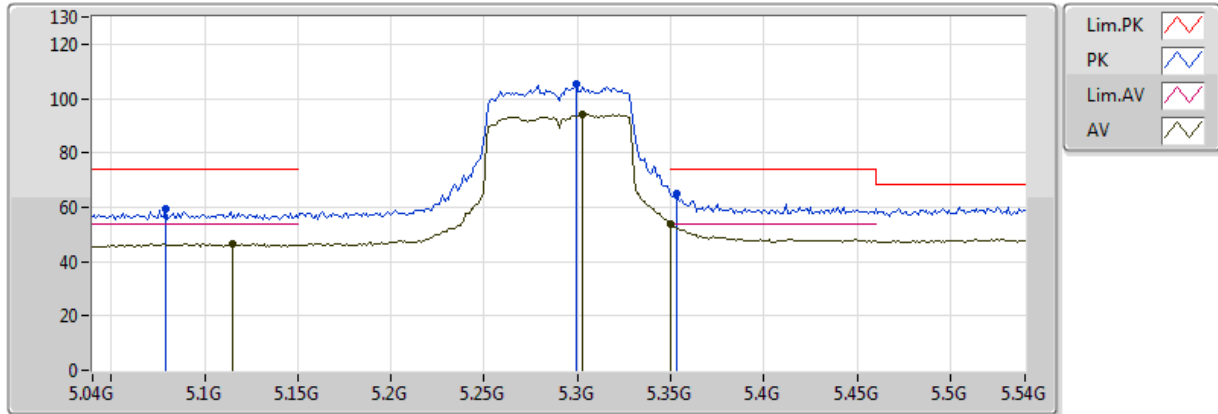


20170217  
 EUT\_Y\_2TX  
 Setting:21  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.339948G	40.98	54.00	-13.02	14.71	3	H	274	1.06	-
PK	11.340992G	54.46	74.00	-19.54	14.71	3	H	274	1.06	-

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

### 5290MHz\_TX



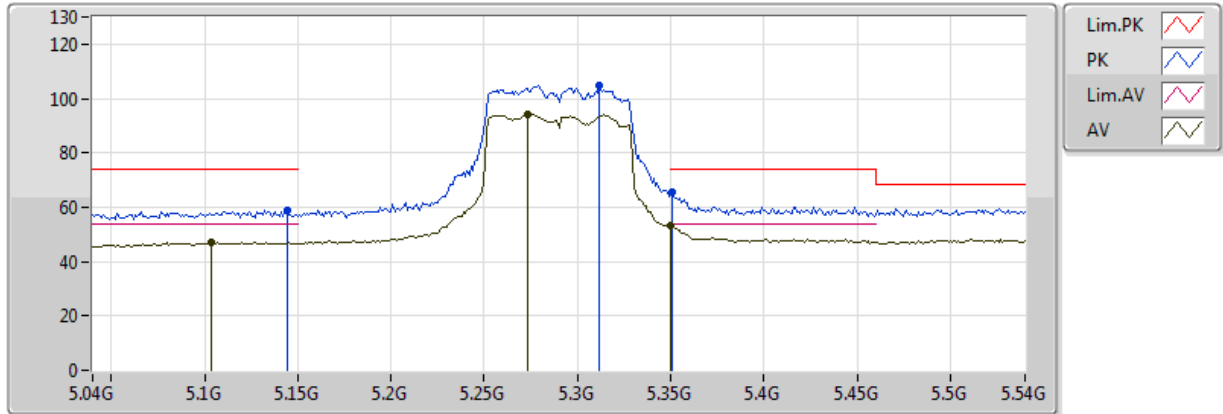
20170217  
 EUT\_Y\_2TX  
 Setting:10  
 04-J-4-10  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.115G	46.69	54.00	-7.31	4.65	3	V	0	1.51	-
AV	5.303G	94.23	Inf	-Inf	5.06	3	V	0	1.51	-
AV	5.350005G	53.66	54.00	-0.34	5.10	3	V	0	1.51	-
PK	5.079G	59.39	74.00	-14.61	4.52	3	V	0	1.51	-
PK	5.299G	105.54	Inf	-Inf	5.06	3	V	0	1.51	-
PK	5.353G	65.02	74.00	-8.98	5.10	3	V	0	1.51	-



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

### 5290MHz\_TX

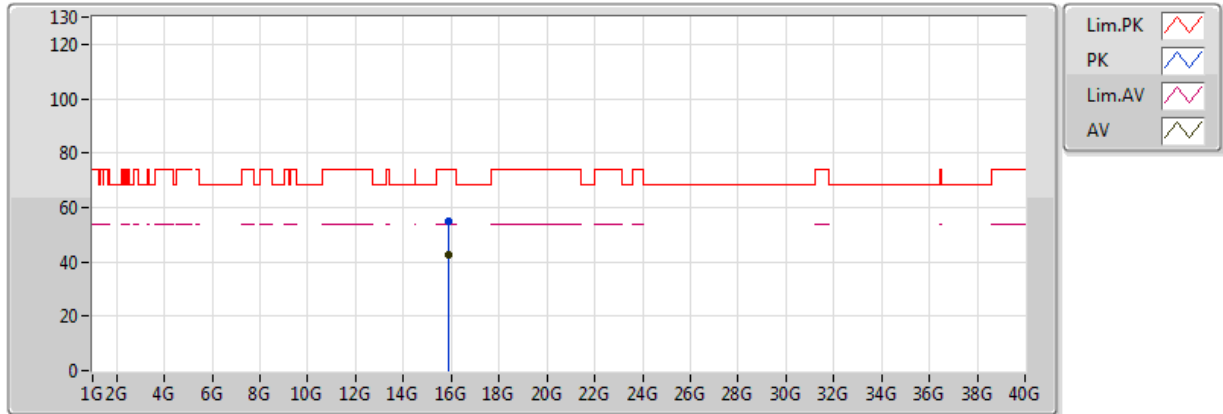


20170217  
EUT\_Y\_2TX  
Setting:10  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.104G	47.12	54.00	-6.88	4.61	3	H	0	1.50	-
AV	5.273G	93.98	Inf	-Inf	5.03	3	H	0	1.50	-
AV	5.350005G	53.08	54.00	-0.92	5.10	3	H	0	1.50	-
PK	5.144G	58.93	74.00	-15.07	4.75	3	H	0	1.50	-
PK	5.312G	104.71	Inf	-Inf	5.07	3	H	0	1.50	-
PK	5.351G	65.57	74.00	-8.43	5.10	3	H	0	1.50	-

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

### 5290MHz\_TX

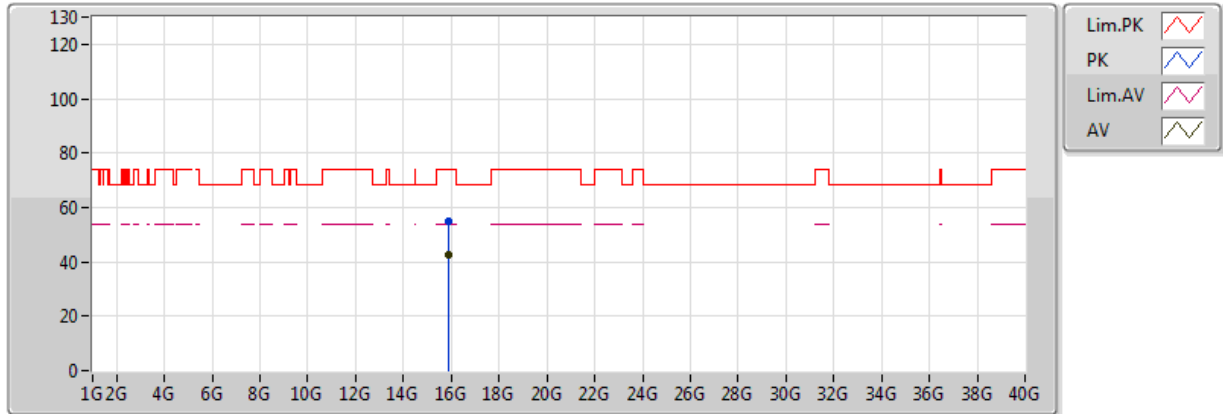


20170217  
 EUT\_Y\_2TX  
 Setting:10  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.86952G	42.51	54.00	-11.49	15.55	3	V	303	1.20	-
PK	15.869572G	54.70	74.00	-19.30	15.55	3	V	303	1.20	-

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

### 5290MHz\_TX

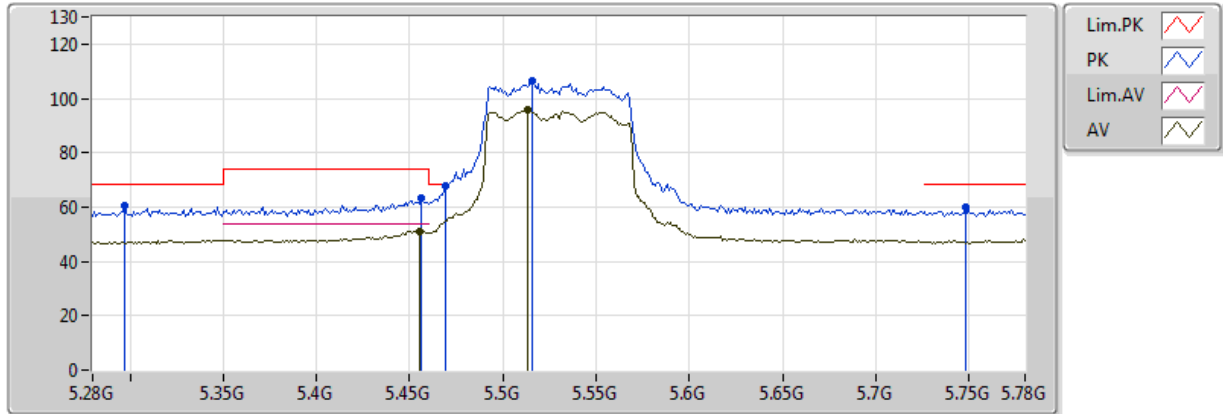


20170217  
EUT\_Y\_2TX  
Setting:10  
04-J-4  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.86924G	42.46	54.00	-11.54	15.55	3	H	290	1.67	-
PK	15.869364G	55.02	74.00	-18.98	15.55	3	H	290	1.67	-

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

### 5530MHz\_TX

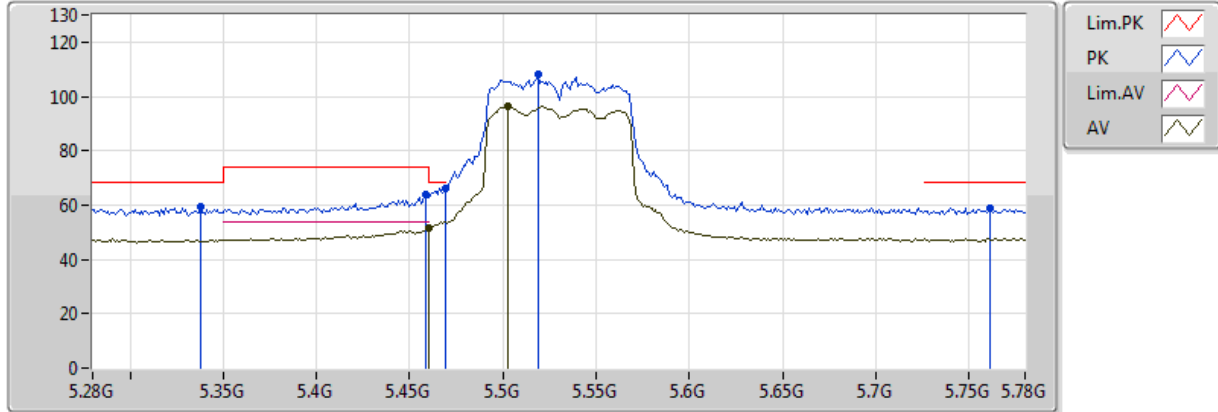


20170217  
EUT\_Y\_2TX  
Setting:10  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.455G	51.16	54.00	-2.84	5.39	3	V	2	1.50	-
AV	5.513G	95.90	Inf	-Inf	5.67	3	V	2	1.50	-
PK	5.297G	60.34	68.20	-7.86	5.06	3	V	2	1.50	-
PK	5.456G	63.56	74.00	-10.44	5.40	3	V	2	1.50	-
PK	5.469G	68.04	68.20	-0.16	5.46	3	V	2	1.50	-
PK	5.516G	106.42	Inf	-Inf	5.69	3	V	2	1.50	-
PK	5.748G	59.88	68.20	-8.32	6.33	3	V	2	1.50	-

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

### 5530MHz\_TX

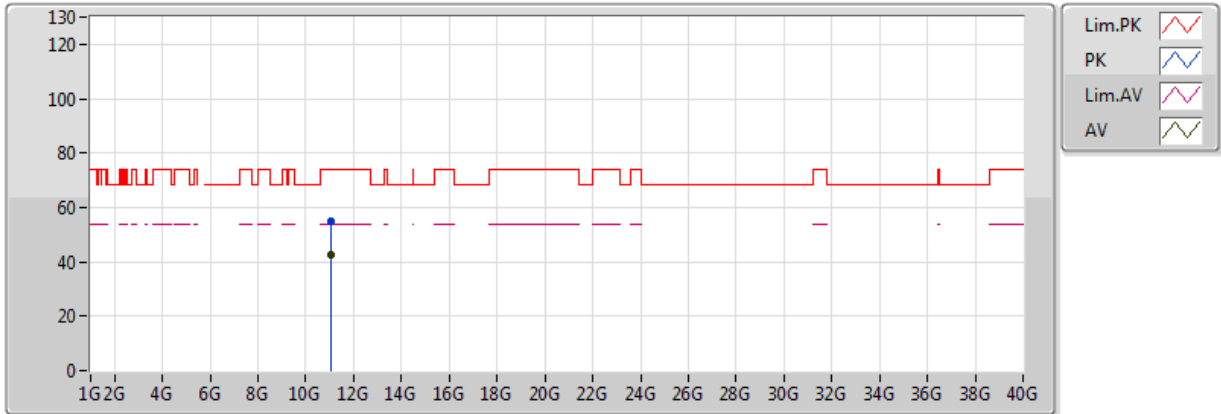


20170217  
EUT\_Y\_2TX  
Setting:10  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.46G	51.61	54.00	-2.39	5.42	3	H	350	1.50	-
AV	5.503G	96.53	Inf	-Inf	5.62	3	H	350	1.50	-
PK	5.338G	59.54	68.20	-8.66	5.09	3	H	350	1.50	-
PK	5.459G	63.62	74.00	-10.38	5.41	3	H	350	1.50	-
PK	5.469G	66.28	68.20	-1.92	5.46	3	H	350	1.50	-
PK	5.519G	108.12	Inf	-Inf	5.70	3	H	350	1.50	-
PK	5.761G	58.82	68.20	-9.38	6.34	3	H	350	1.50	-

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

### 5530MHz\_TX

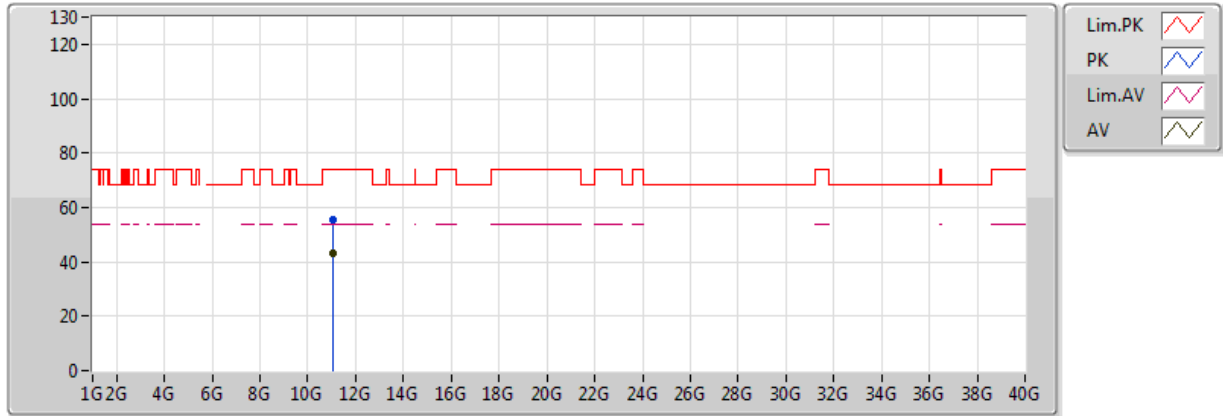


20170217  
 EUT\_Y\_2TX  
 Setting:10  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.060372G	42.70	54.00	-11.30	14.64	3	V	137	2.33	-
PK	11.060568G	54.95	74.00	-19.05	14.64	3	V	137	2.33	-

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

### 5530MHz\_TX

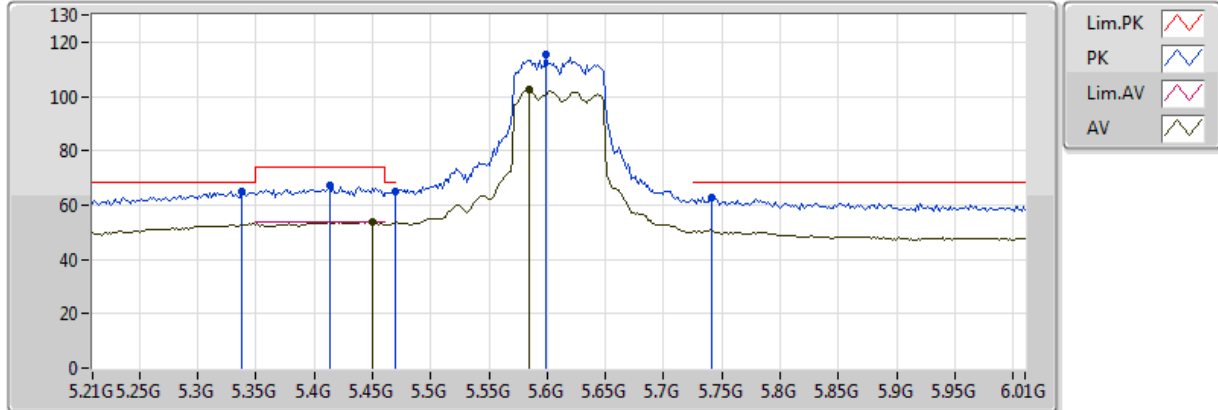


20170217  
EUT\_Y\_2TX  
Setting:10  
04-J-4  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.060048G	42.89	54.00	-11.11	14.64	3	H	141	1.59	-
PK	11.059416G	55.37	74.00	-18.63	14.64	3	H	141	1.59	-

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

### 5610MHz\_TX



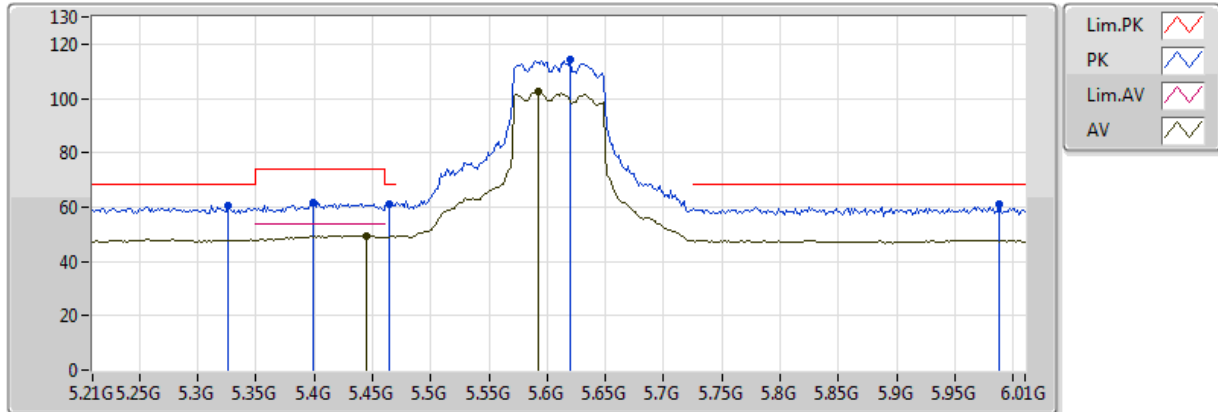
20170217  
EUT\_Y\_2TX  
Setting:18  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.45G	53.97	54.00	-0.03	5.37	3	V	1	1.50	-
AV	5.5844G	102.27	Inf	-Inf	6.06	3	V	1	1.50	-
PK	5.338G	65.07	68.20	-3.13	5.09	3	V	1	1.50	-
PK	5.4132G	67.23	74.00	-6.77	5.20	3	V	1	1.50	-
PK	5.4692G	64.73	68.20	-3.47	5.46	3	V	1	1.50	-
PK	5.5988G	115.20	Inf	-Inf	6.14	3	V	1	1.50	-
PK	5.7412G	62.81	68.20	-5.39	6.32	3	V	1	1.50	-



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

### 5610MHz\_TX

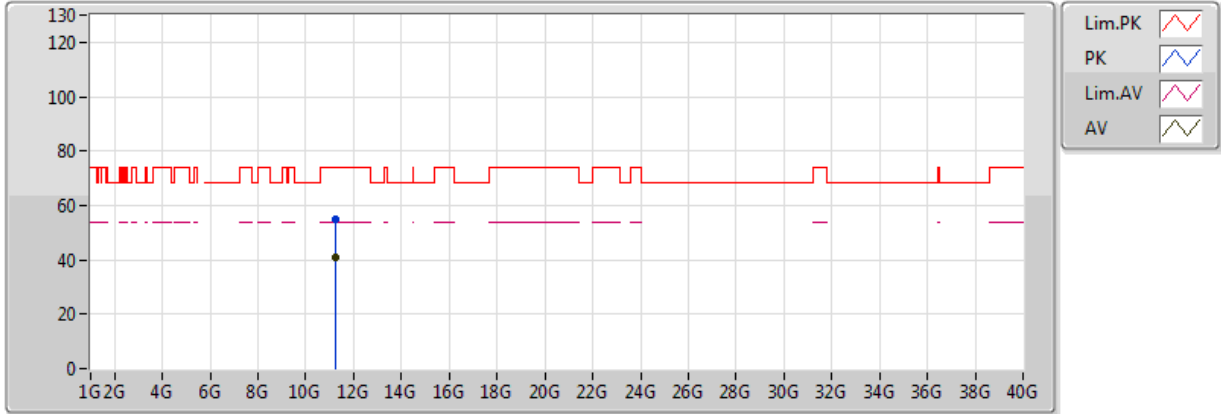


20170217  
EUT\_Y\_2TX  
Setting:18  
04-J-4-10  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4452G	49.47	54.00	-4.53	5.35	3	H	349	1.51	-
AV	5.5924G	102.53	Inf	-Inf	6.11	3	H	349	1.51	-
PK	5.3268G	60.58	68.20	-7.62	5.08	3	H	349	1.51	-
PK	5.3988G	61.69	74.00	-12.31	5.14	3	H	349	1.51	-
PK	5.4644G	60.99	68.20	-7.21	5.44	3	H	349	1.51	-
PK	5.6196G	114.04	Inf	-Inf	6.17	3	H	349	1.51	-
PK	5.9876G	60.95	68.20	-7.25	7.48	3	H	349	1.51	-

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

### 5610MHz\_TX

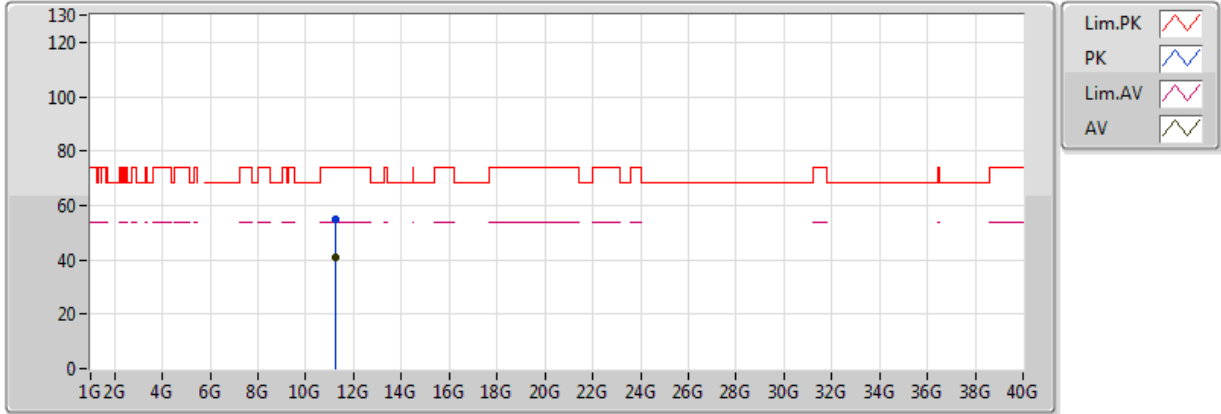


20170217  
EUT\_Y\_2TX  
Setting:18  
04-J-4  
FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.220688G	41.15	54.00	-12.85	14.68	3	V	48	2.49	-
PK	11.219608G	54.77	74.00	-19.23	14.68	3	V	48	2.49	-

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

### 5610MHz\_TX



20170217  
 EUT\_Y\_2TX  
 Setting:18  
 04-J-4  
 FSU(100015)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.219008G	41.18	54.00	-12.82	14.68	3	H	212	1.84	-
PK	11.22056G	54.64	74.00	-19.36	14.68	3	H	212	1.84	-



**Mode: 20 MHz / Port 2**  
**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9801	5299.9800	5299.9792	5299.9785
110.00	5299.9793	5299.9783	5299.9782	5299.9773
93.50	5299.9783	5299.9776	5299.9766	5299.9765
Max. Deviation (MHz)	0.0217	0.0224	0.0234	0.0235
Max. Deviation (ppm)	4.09	4.23	4.42	4.43
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5299.9855	5299.9849	5299.9839	5299.9829
-30	5299.9843	5299.9837	5299.9829	5299.9824
-20	5299.9838	5299.9836	5299.9829	5299.9826
-10	5299.9824	5299.9820	5299.9813	5299.9807
0	5299.9822	5299.9814	5299.9806	5299.9803
10	5299.9812	5299.9810	5299.9800	5299.9790
20	5299.9793	5299.9786	5299.9776	5299.9772
30	5299.9784	5299.9774	5299.9764	5299.9760
40	5299.9781	5299.9779	5299.9769	5299.9768
50	5299.9771	5299.9765	5299.9756	5299.9749
60	5299.9762	5299.9761	5299.9759	5299.9751
70	5299.9744	5299.9737	5299.9730	5299.9722
Max. Deviation (MHz)	0.0256	0.0263	0.0270	0.0278
Max. Deviation (ppm)	4.83	4.96	5.09	5.25
Result	Pass			

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9802	5579.9794	5579.9792	5579.9783
110.00	5579.9793	5579.9787	5579.9781	5579.9772
93.50	5579.9792	5579.9782	5579.9772	5579.9762
Max. Deviation (MHz)	0.0208	0.0218	0.0228	0.0238
Max. Deviation (ppm)	3.73	3.91	4.09	4.27
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5579.9854	5579.9845	5579.9837	5579.9835
-30	5579.9844	5579.9839	5579.9833	5579.9823
-20	5579.9831	5579.9824	5579.9821	5579.9818
-10	5579.9830	5579.9826	5579.9817	5579.9811
0	5579.9815	5579.9810	5579.9804	5579.9802
10	5579.9801	5579.9794	5579.9785	5579.9779
20	5579.9793	5579.9790	5579.9786	5579.9783
30	5579.9784	5579.9774	5579.9769	5579.9768
40	5579.9779	5579.9776	5579.9766	5579.9765
50	5579.9766	5579.9763	5579.9761	5579.9753
60	5579.9758	5579.9749	5579.9739	5579.9731
70	5579.9740	5579.9739	5579.9735	5579.9727
Max. Deviation (MHz)	0.0260	0.0261	0.0265	0.0273
Max. Deviation (ppm)	4.66	4.68	4.75	4.89
Result	Pass			



**Mode: 40 MHz / Port 2**  
**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5309.9798	5309.9790	5309.9781	5309.9772
110.00	5309.9793	5309.9787	5309.9783	5309.9773
93.50	5309.9789	5309.9783	5309.9778	5309.9774
Max. Deviation (MHz)	0.0211	0.0217	0.0222	0.0228
Max. Deviation (ppm)	3.97	4.09	4.18	4.29
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5310 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5309.9858	5309.9848	5309.9839	5309.9838
-30	5309.9856	5309.9850	5309.9849	5309.9848
-20	5309.9848	5309.9845	5309.9838	5309.9829
-10	5309.9834	5309.9824	5309.9821	5309.9813
0	5309.9818	5309.9815	5309.9809	5309.9803
10	5309.9798	5309.9796	5309.9793	5309.9783
20	5309.9793	5309.9789	5309.9788	5309.9786
30	5309.9784	5309.9779	5309.9774	5309.9766
40	5309.9766	5309.9760	5309.9756	5309.9755
50	5309.9758	5309.9753	5309.9746	5309.9737
60	5309.9748	5309.9738	5309.9731	5309.9728
70	5309.9728	5309.9720	5309.9715	5309.9706
Max. Deviation (MHz)	0.0272	0.0280	0.0285	0.0294
Max. Deviation (ppm)	5.12	5.27	5.37	5.54
Result	Pass			

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5549.9798	5549.9789	5549.9781	5549.9780
110.00	5549.9793	5549.9787	5549.9784	5549.9774
93.50	5549.9789	5549.9780	5549.9775	5549.9769
Max. Deviation (MHz)	0.0211	0.0220	0.0225	0.0231
Max. Deviation (ppm)	3.80	3.96	4.05	4.16
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5550 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5549.9858	5549.9852	5549.9846	5549.9837
-30	5549.9855	5549.9847	5549.9841	5549.9837
-20	5549.9854	5549.9847	5549.9839	5549.9833
-10	5549.9836	5549.9835	5549.9826	5549.9822
0	5549.9828	5549.9823	5549.9819	5549.9813
10	5549.9809	5549.9805	5549.9804	5549.9802
20	5549.9793	5549.9791	5549.9784	5549.9783
30	5549.9784	5549.9777	5549.9773	5549.9768
40	5549.9767	5549.9763	5549.9762	5549.9756
50	5549.9763	5549.9756	5549.9747	5549.9743
60	5549.9747	5549.9737	5549.9735	5549.9732
70	5549.9733	5549.9730	5549.9726	5549.9719
Max. Deviation (MHz)	0.0267	0.0270	0.0274	0.0281
Max. Deviation (ppm)	4.81	4.86	4.94	5.06
Result	Pass			



**Mode: 80 MHz / Port 2**  
**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5289.9801	5289.9792	5289.9789	5289.9784
110.00	5289.9793	5289.9785	5289.9780	5289.9777
93.50	5289.9784	5289.9776	5289.9771	5289.9765
Max. Deviation (MHz)	0.0216	0.0224	0.0229	0.0235
Max. Deviation (ppm)	4.08	4.23	4.33	4.44
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5290 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5289.9854	5289.9847	5289.9841	5289.9839
-30	5289.9844	5289.9836	5289.9830	5289.9826
-20	5289.9840	5289.9835	5289.9825	5289.9818
-10	5289.9836	5289.9835	5289.9833	5289.9824
0	5289.9816	5289.9809	5289.9800	5289.9799
10	5289.9807	5289.9800	5289.9796	5289.9787
20	5289.9793	5289.9792	5289.9788	5289.9786
30	5289.9784	5289.9777	5289.9768	5289.9765
40	5289.9771	5289.9762	5289.9753	5289.9748
50	5289.9761	5289.9757	5289.9753	5289.9749
60	5289.9746	5289.9736	5289.9726	5289.9716
70	5289.9729	5289.9724	5289.9720	5289.9715
Max. Deviation (MHz)	0.0271	0.0276	0.0280	0.0285
Max. Deviation (ppm)	5.12	5.22	5.29	5.39
Result	Pass			

**Voltage vs. Frequency Stability**

Voltage (V)	Measurement Frequency (MHz)			
	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5529.9800	5529.9793	5529.9792	5529.9786
110.00	5529.9793	5529.9791	5529.9782	5529.9778
93.50	5529.9788	5529.9785	5529.9777	5529.9769
Max. Deviation (MHz)	0.0212	0.0215	0.0223	0.0231
Max. Deviation (ppm)	3.83	3.89	4.03	4.18
Result	Pass			

**Temperature vs. Frequency Stability**

Temperature (°C)	Measurement Frequency (MHz)			
	5530 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5529.9847	5529.9841	5529.9832	5529.9827
-30	5529.9836	5529.9831	5529.9826	5529.9817
-20	5529.9829	5529.9828	5529.9824	5529.9820
-10	5529.9827	5529.9821	5529.9819	5529.9817
0	5529.9821	5529.9818	5529.9812	5529.9810
10	5529.9801	5529.9795	5529.9788	5529.9782
20	5529.9793	5529.9784	5529.9781	5529.9777
30	5529.9784	5529.9781	5529.9777	5529.9768
40	5529.9779	5529.9774	5529.9768	5529.9763
50	5529.9767	5529.9757	5529.9748	5529.9741
60	5529.9760	5529.9751	5529.9744	5529.9738
70	5529.9751	5529.9746	5529.9740	5529.9733
Max. Deviation (MHz)	0.0249	0.0254	0.0260	0.0267
Max. Deviation (ppm)	4.50	4.59	4.70	4.83
Result	Pass			