



# FCC Test Report

**FCC ID** : UIDDG3450P2  
**Equipment** : Data Gateway  
**Brand Name** : ARRIS  
**Model Name** : DG3450  
**Applicant** : ARRIS  
3871 Lakefield Drive, #300 Suwanee, GA 30024  
**Manufacturer** : ARRIS  
3871 Lakefield Drive, #300 Suwanee, GA 30024  
**Standard** : 47 CFR FCC Part 15.407

The product was received on Mar. 05, 2019, and testing was started from Mar. 06, 2019 and completed on Mar. 13, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## Summary of Test Result

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

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and explanations:**

None

**Reviewed by:** Jackson Tsai

**Report Producer:** Ann Hou



# 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]
Straddle 5720		5720	144 [1]
5250-5350	n (HT40), ac (VHT40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5250-5350	ac (VHT80)	5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	4TX
5.47-5.725GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	4TX
5.25-5.35GHz	802.11ac VHT20	20	4TX
5.47-5.725GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.25-5.35GHz	802.11ac VHT40	40	4TX
5.47-5.725GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.25-5.35GHz	802.11ac VHT80	80	4TX
5.47-5.725GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX

Note:

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



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
4	ARRIS	DG3450	PIFA	N/A
5	ARRIS	DG3450	PIFA	N/A
6	ARRIS	DG3450	PIFA	N/A
7	ARRIS	DG3450	PIFA	N/A

Ant.	Port	U-NII-2A		U-NII-2C	
		Channel(MHz)	Gain (dBi)	Channel(MHz)	Gain (dBi)
4~7	1~4	5260	3.78	5500	4.918
		5300	3.89	5560	5.091
		5320	3.89	5700	5.2
		5270	3.78	5510	4.918
		5310	3.89	5550	5.091
		5290	3.78	5670	5.091
		-	-	5530	4.918
		-	-	5610	5.091

For 5GHz function:

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

Ant. 4 (port 1), Ant. 5 (port 2), Ant. 6 (port 3) and Ant. 7 (port 4) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	<input type="checkbox"/>	Outdoor	<input checked="" type="checkbox"/> Indoor
	<input type="checkbox"/>	Fixed P2P	<input type="checkbox"/> Client
Beamforming Function	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/> Without beamforming
TPC Function	<input checked="" type="checkbox"/>	With TPC Function	<input type="checkbox"/> Without TPC Function
Weather Band	<input checked="" type="checkbox"/>	With 5600~5650MHz	<input type="checkbox"/> Without 5600~5650MHz
Type of EUT			
<input checked="" type="checkbox"/>	Stand-alone		
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
<input type="checkbox"/>	Other:		



1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.695	1.58	1.399m	1k
802.11ac VHT20	0.655	1.838	1.319m	1k
802.11ac VHT40	0.742	1.296	658.75u	3k
802.11ac VHT80	0.619	2.083	318.75u	10k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Table for Multiple Listing

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

Brand Name	Model Name	Description
ARRIS	DG3450	There are two enclosures for EUT. All samples are identical, only the color and enclosures are different.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR911904AN

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

Modifications	Performance Checking
U-NII-2A and U-NII-2C were added	Emission Bandwidth, Maximum Conducted Output Power , Peak Power Spectral Density, Unwanted Emissions were evaluated.

## 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
- ◆ KDB 789033 D02 v02r01

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

- ◆ KDB 662911 D01 v02r01

## 1.3 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Clara	23.3~23.9°C / 63~65%	12/Mar/2019~ 13/Mar/2019
Radiated	03CH09-HY	Jeff	23.6~24.1°C / 51.2~51.8%	06/Mar/2019~ 07/Mar/2019

## 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%





## 2 Test Configuration of EUT

### 2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

### 2.2 Test Channel Mode


Test Software	DoS
---------------	-----

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5260MHz	23 21 19 26
5300MHz	21 19 17 24
5320MHz	20 19 17 23
5500MHz	14 13 16 16
5580MHz	14 13 16 16
5700MHz	15 13 16 18
5720MHz Straddle 5.47-5.725GHz	14 14 15 18
5720MHz Straddle 5.725-5.85GHz	14 14 15 18
802.11ac VHT20_Nss4,(MCS0)_4TX	-
5260MHz	24 24 20 27
5300MHz	23 21 19 26
5320MHz	22 21 19 25
5500MHz	16 15 18 18
5580MHz	15 14 17 18
5700MHz	16 14 17 19
5720MHz Straddle 5.47-5.725GHz	17 17 18 19
5720MHz Straddle 5.725-5.85GHz	17 17 18 19
802.11ac VHT40_Nss4,(MCS0)_4TX	-
5270MHz	24 22 20 27
5310MHz	22 21 19 25
5510MHz	14 13 16 16
5550MHz	15 13 16 16

Mode	Power Setting
5670MHz	14 15 15 17
5710MHz Straddle 5.47-5.725GHz	15 15 16 19
5710MHz Straddle 5.725-5.85GHz	15 15 16 19
802.11ac VHT80_Nss4,(MCS0)_4TX	-
5290MHz	20 18 16 23
5530MHz	14 13 16 16
5610MHz	15 13 16 18
5690MHz Straddle 5.47-5.725GHz	15 15 16 19
5690MHz Straddle 5.725-5.85GHz	15 15 16 19

### 2.3 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Unwanted Emissions
<b>Test Condition</b>	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
<b>Operating Mode &lt; 1GHz</b>	CTX
1	Adapter mode
<b>Operating Mode &gt; 1GHz</b>	CTX
<b>Orthogonal Planes of EUT</b>	<b>Y Plane</b> 
<b>Worst Planes of EUT</b>	V

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Simultaneous Transmission Analysis
<b>Operating Mode</b>	CTX
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Sporton Test Report No.: FA911904-01 for Co-location RF Exposure Evaluation.	

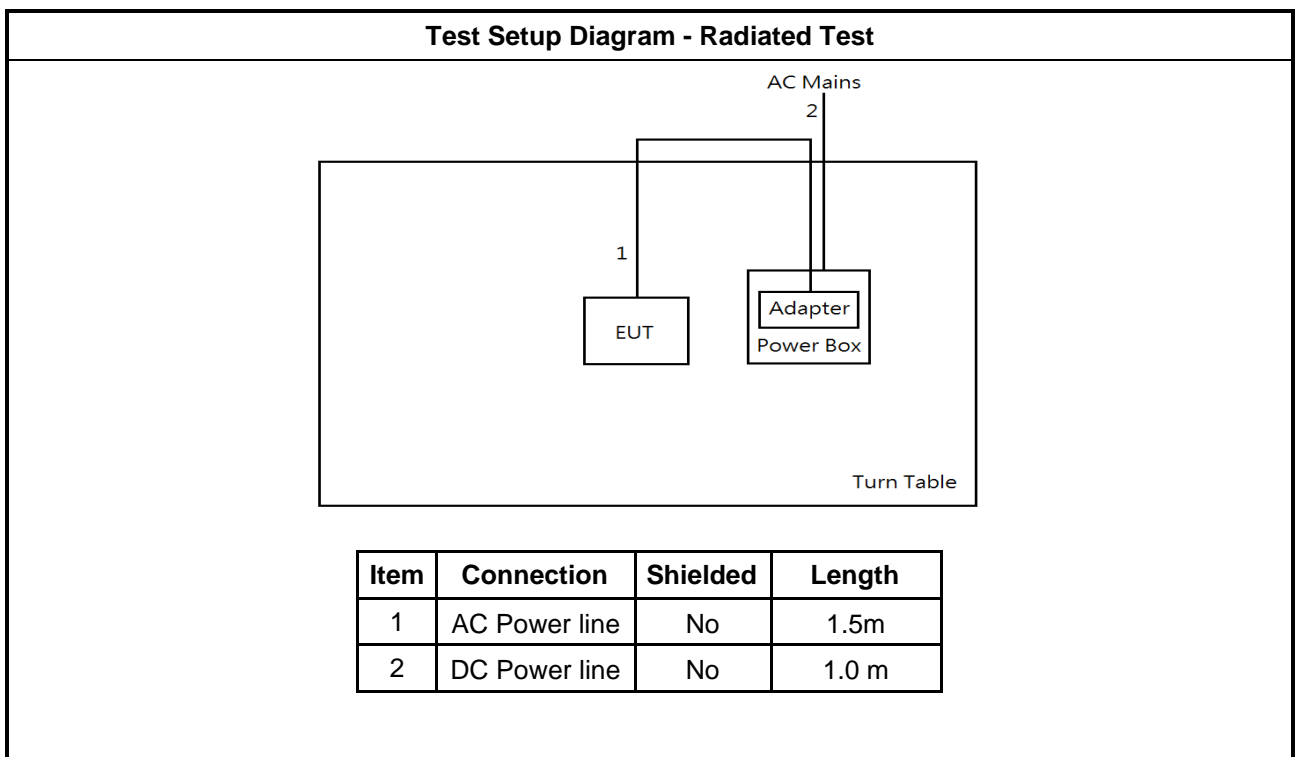
## 2.4 Accessories and Support Equipment

Accessories				
AC Adapter (US Plug)	<b>Brand Name</b>	ARRIS	<b>Model Name</b>	NBS36H120300VU
	<b>Power Rating</b>	I/P: 100- 240Vac, 0.8A, O/P: 12Vdc, 3A		
	<b>Power Cord</b>	1.8 meter, non-shielded cable, w/o ferrite core		
RJ45	<b>Power Cord</b>	1.0 meter, non-shielded cable, w/o ferrite core		

Reminder: Regarding to more detail and other information, please refer to user manual.

Support Equipment - RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC

## 2.5 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, N/A
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, N/A
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

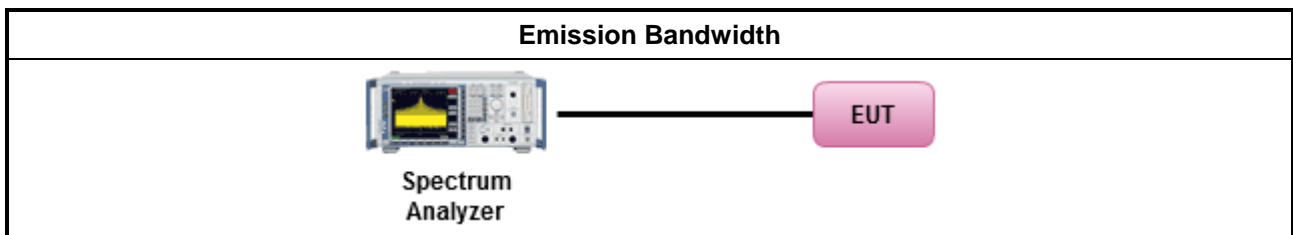
##### 3.1.2 Measuring Instruments

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:</li> </ul>	
<input checked="" type="checkbox"/>	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 6.7 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 125mW</math> [21dBm]</li> <li>▪ Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>▪ Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul>
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .	
<input 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.	

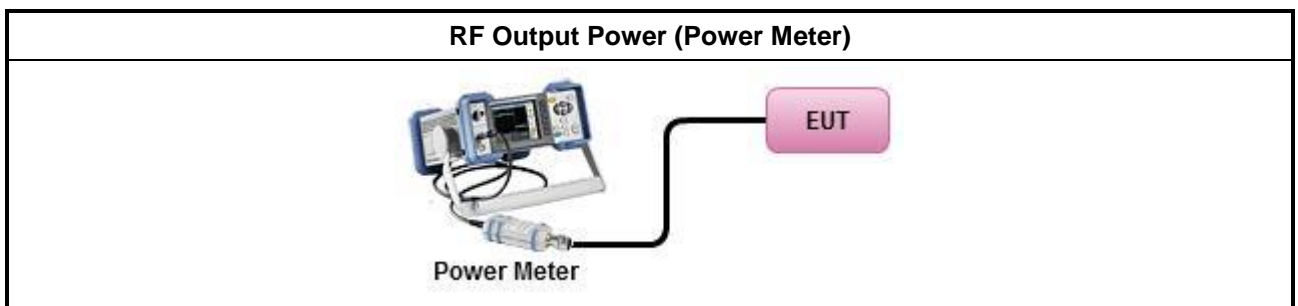
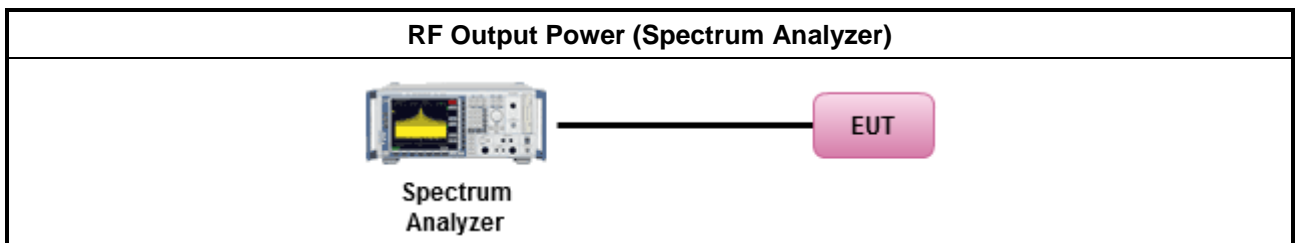
#### 3.2.2 Measuring Instruments

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>	
	Duty cycle $\geq 98\%$ <input type="checkbox"/> Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$ <input checked="" type="checkbox"/> Refer as 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 KDB 789033, clause E Method PM (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 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:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul>
<input checked="" type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .	
<input checked="" type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<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>	

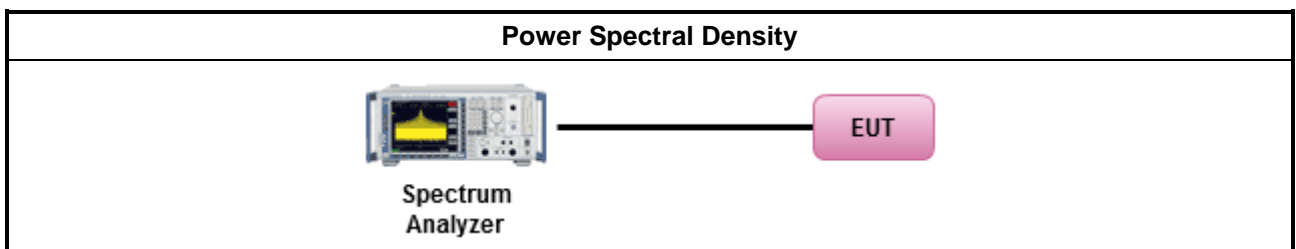
#### 3.3.2 Measuring Instruments

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 KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
Duty cycle < 98%	
<input checked="" type="checkbox"/>	Refer as 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>	
	<ul style="list-style-type: none"> <li>▪ Measure and sum the spectra across the outputs. Refer as 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.</li> </ul>
	<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.

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
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	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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).

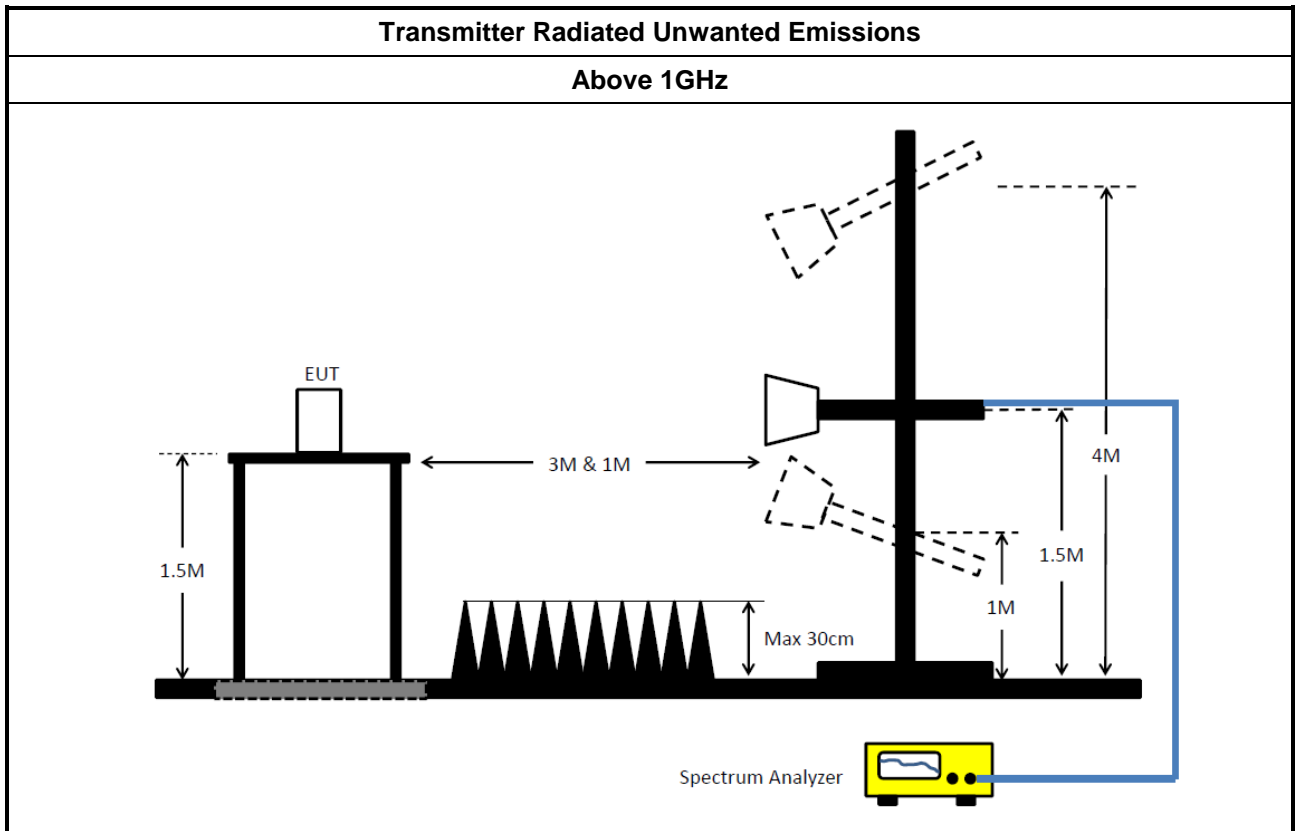
### 3.4.2 Measuring Instruments

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:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.</li> </ul>
	<input checked="" type="checkbox"/> Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
	<input checked="" type="checkbox"/> Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For radiated measurement.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>
<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>	

### 3.4.4 Test Setup



### 3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

### 3.5 Test Equipment and Calibration Data

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	10Hz~40GHz	18/Jul/2018	17/Jul/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

**Instrument for Radiated Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	31/Jul/2018	30/Jul/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.575M	16.617M	16M6D1D	19.425M	16.417M
802.11ac VHT20_Nss4,(MCS0)_4TX	20.875M	17.741M	17M7D1D	19.8M	17.516M
802.11ac VHT40_Nss4,(MCS0)_4TX	41M	36.282M	36M3D1D	39.95M	35.732M
802.11ac VHT80_Nss4,(MCS0)_4TX	81.8M	75.562M	75M6D1D	80.8M	75.262M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	20.5M	16.517M	16M5D1D	15.015M	13.193M
802.11ac VHT20_Nss4,(MCS0)_4TX	20.825M	17.591M	17M6D1D	15.09M	13.748M
802.11ac VHT40_Nss4,(MCS0)_4TX	41.15M	36.282M	36M3D1D	35.35M	32.919M
802.11ac VHT80_Nss4,(MCS0)_4TX	82M	75.862M	75M9D1D	75.6M	72.414M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	3.14M	3.638M	3M64D1D	3.12M	3.478M
802.11ac VHT20_Nss4,(MCS0)_4TX	3.52M	3.958M	3M96D1D	3.36M	3.878M
802.11ac VHT40_Nss4,(MCS0)_4TX	3.16M	3.598M	3M60D1D	2.9M	3.538M
802.11ac VHT80_Nss4,(MCS0)_4TX	3.12M	3.718M	3M72D1D	2.86M	3.438M

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

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

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

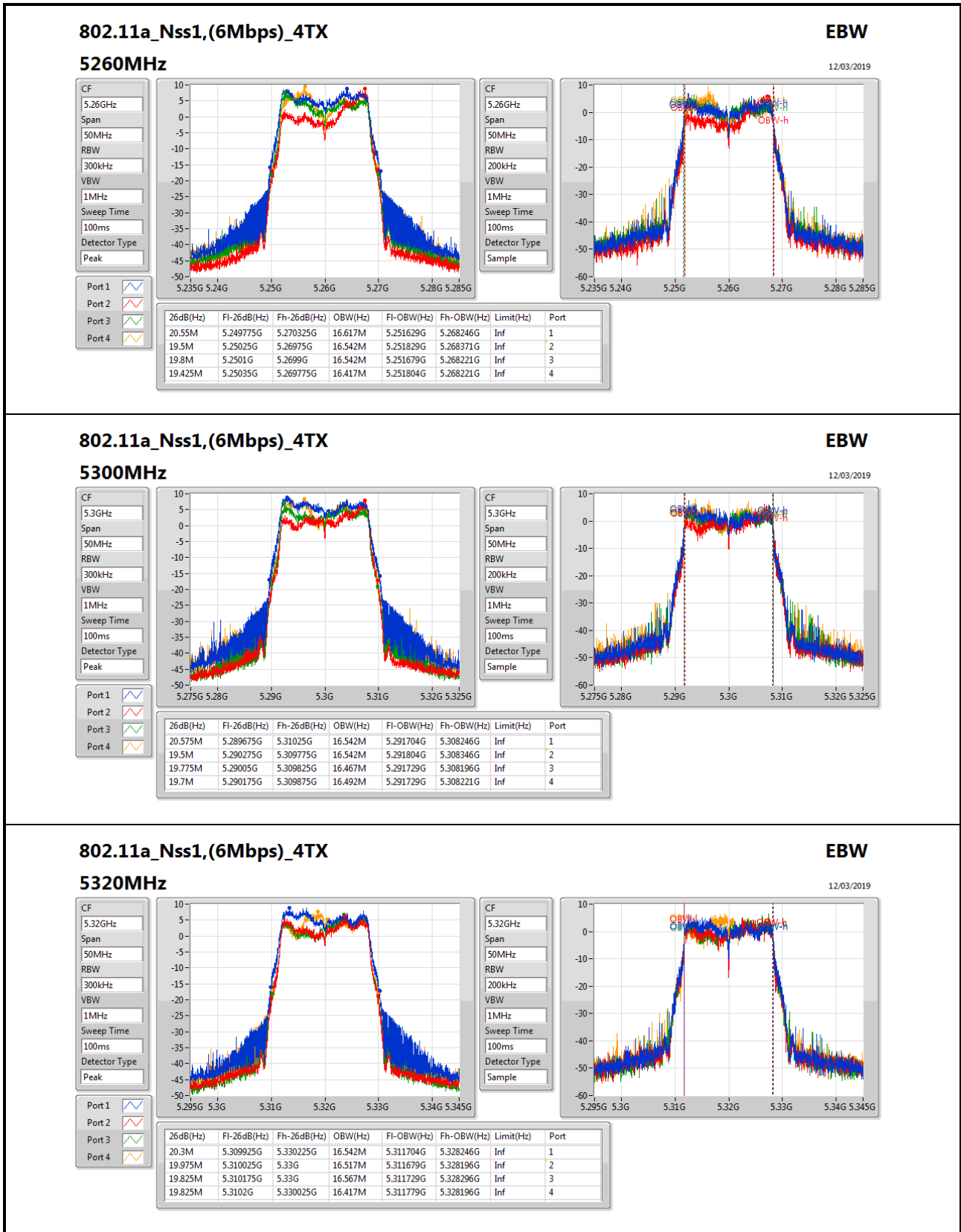
**Min-OBW** = Minimum 99% occupied bandwidth;

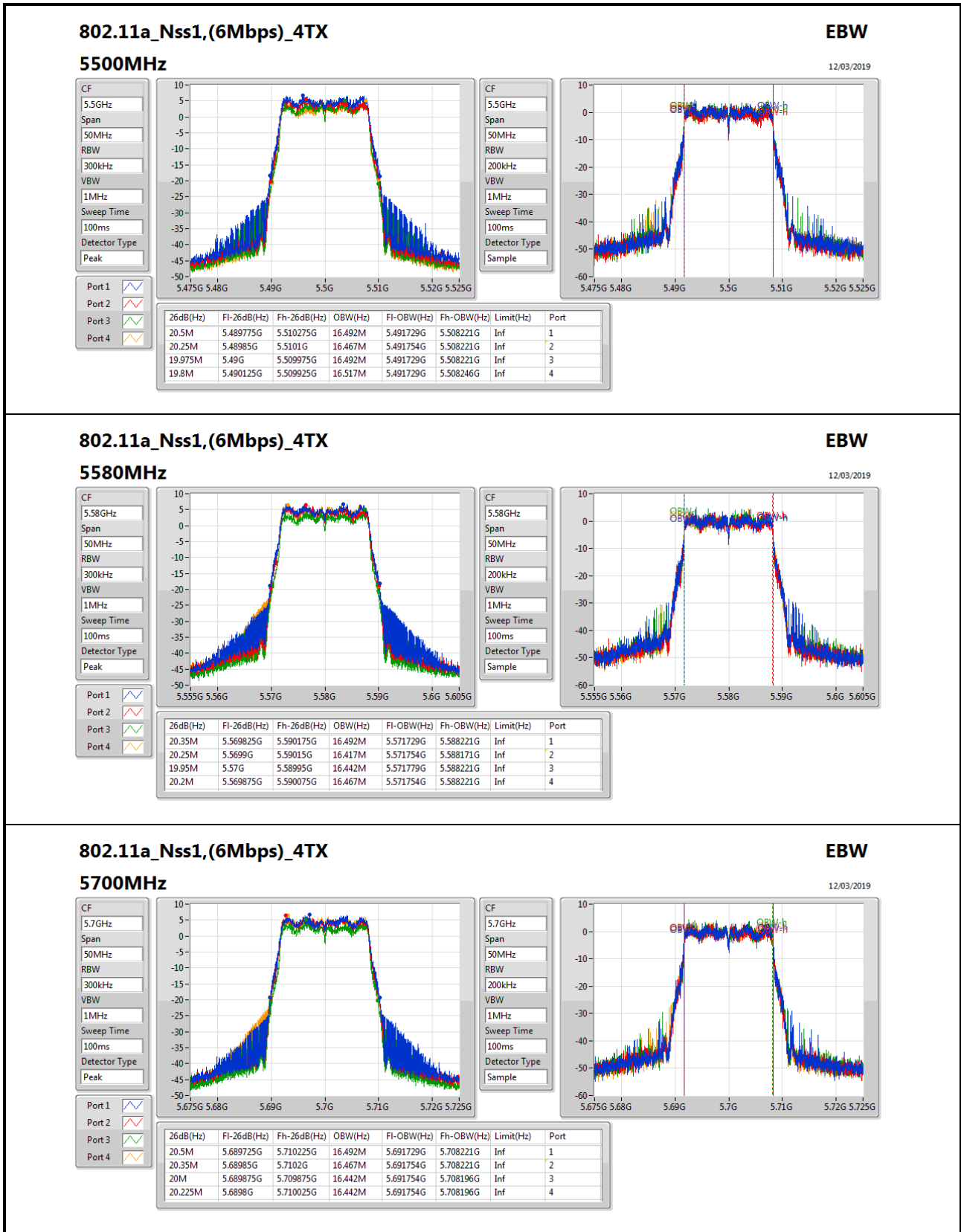
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.55M	16.617M	19.5M	16.542M	19.8M	16.542M	19.425M	16.417M
5300MHz	Pass	Inf	20.575M	16.542M	19.5M	16.542M	19.775M	16.467M	19.7M	16.492M
5320MHz	Pass	Inf	20.3M	16.542M	19.975M	16.517M	19.825M	16.567M	19.825M	16.417M
5500MHz	Pass	Inf	20.5M	16.492M	20.25M	16.467M	19.975M	16.492M	19.8M	16.517M
5580MHz	Pass	Inf	20.35M	16.492M	20.25M	16.417M	19.95M	16.442M	20.2M	16.467M
5700MHz	Pass	Inf	20.5M	16.492M	20.35M	16.467M	20M	16.442M	20.225M	16.442M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.15M	13.238M	15.06M	13.193M	15.015M	13.208M	15.105M	13.208M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.538M	3.12M	3.578M	3.14M	3.638M	3.14M	3.478M
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	Inf	20.7M	17.641M	19.8M	17.741M	20.575M	17.616M	19.8M	17.566M
5300MHz	Pass	Inf	20.625M	17.566M	20.5M	17.691M	20.6M	17.616M	20.475M	17.541M
5320MHz	Pass	Inf	20.65M	17.616M	20.875M	17.641M	20.45M	17.616M	20.3M	17.516M
5500MHz	Pass	Inf	20.825M	17.566M	20.55M	17.516M	20.5M	17.541M	20.55M	17.591M
5580MHz	Pass	Inf	20.625M	17.541M	20.425M	17.516M	20.525M	17.566M	20.65M	17.591M
5700MHz	Pass	Inf	20.575M	17.541M	20.4M	17.541M	20.425M	17.566M	20.5M	17.591M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.18M	13.763M	15.12M	13.748M	15.15M	13.763M	15.09M	13.748M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.5M	3.898M	3.52M	3.958M	3.36M	3.878M	3.52M	3.938M
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	Inf	40.75M	36.032M	39.95M	35.732M	40.65M	35.982M	40.6M	35.932M
5310MHz	Pass	Inf	40.65M	36.082M	40.7M	36.032M	40.55M	36.032M	41M	36.282M
5510MHz	Pass	Inf	40.85M	36.182M	41.15M	36.232M	40.85M	36.182M	41M	36.282M
5550MHz	Pass	Inf	41M	36.132M	41.1M	36.232M	40.6M	36.232M	40.95M	36.232M
5670MHz	Pass	Inf	41.1M	36.182M	41.15M	36.182M	40.9M	36.132M	41.1M	36.182M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.49M	32.989M	35.525M	32.989M	35.35M	32.919M	35.595M	32.954M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.14M	3.538M	2.9M	3.538M	3.14M	3.538M	3.16M	3.598M
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	Inf	81.8M	75.562M	80.8M	75.262M	81.4M	75.562M	81.4M	75.262M
5530MHz	Pass	Inf	81.9M	75.762M	81.7M	75.662M	81.2M	75.662M	81.6M	75.662M
5610MHz	Pass	Inf	82M	75.862M	81.4M	75.662M	81.2M	75.462M	81.2M	75.562M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	76.125M	72.489M	75.825M	72.564M	75.6M	72.414M	75.675M	72.714M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	2.9M	3.718M	3.12M	3.518M	3.12M	3.438M	2.86M	3.518M

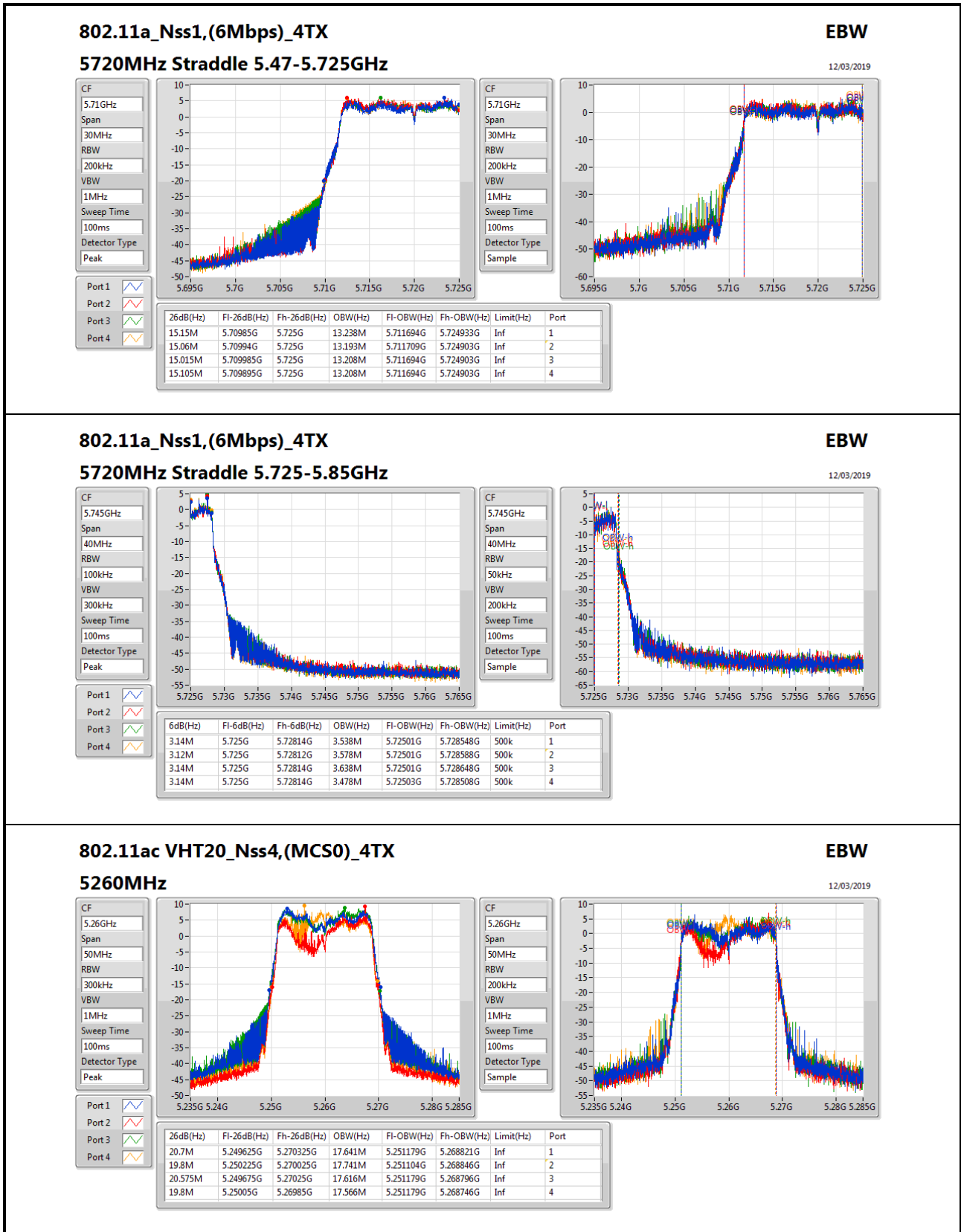
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

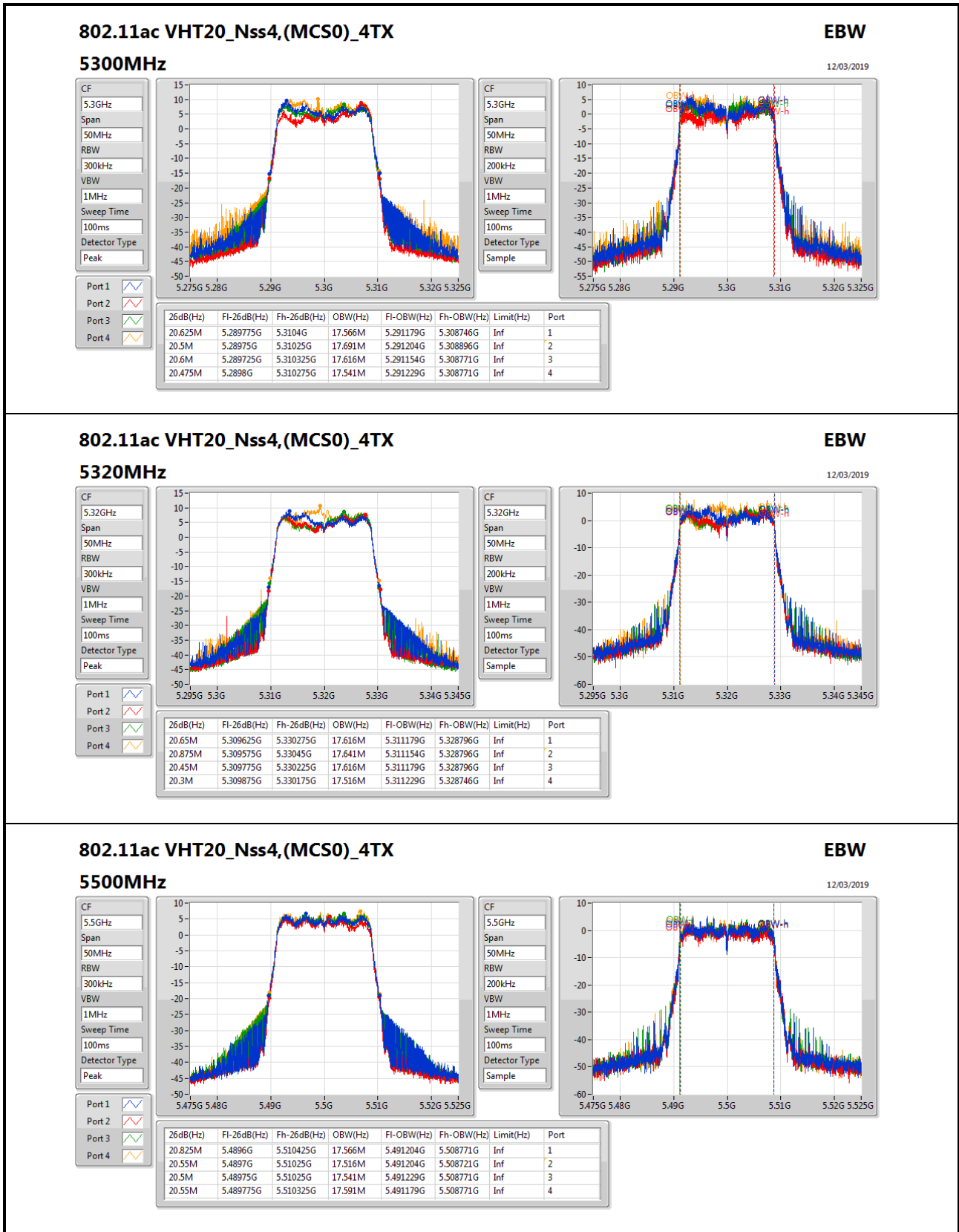
**Port X-OBW** = Port X 99% occupied bandwidth;

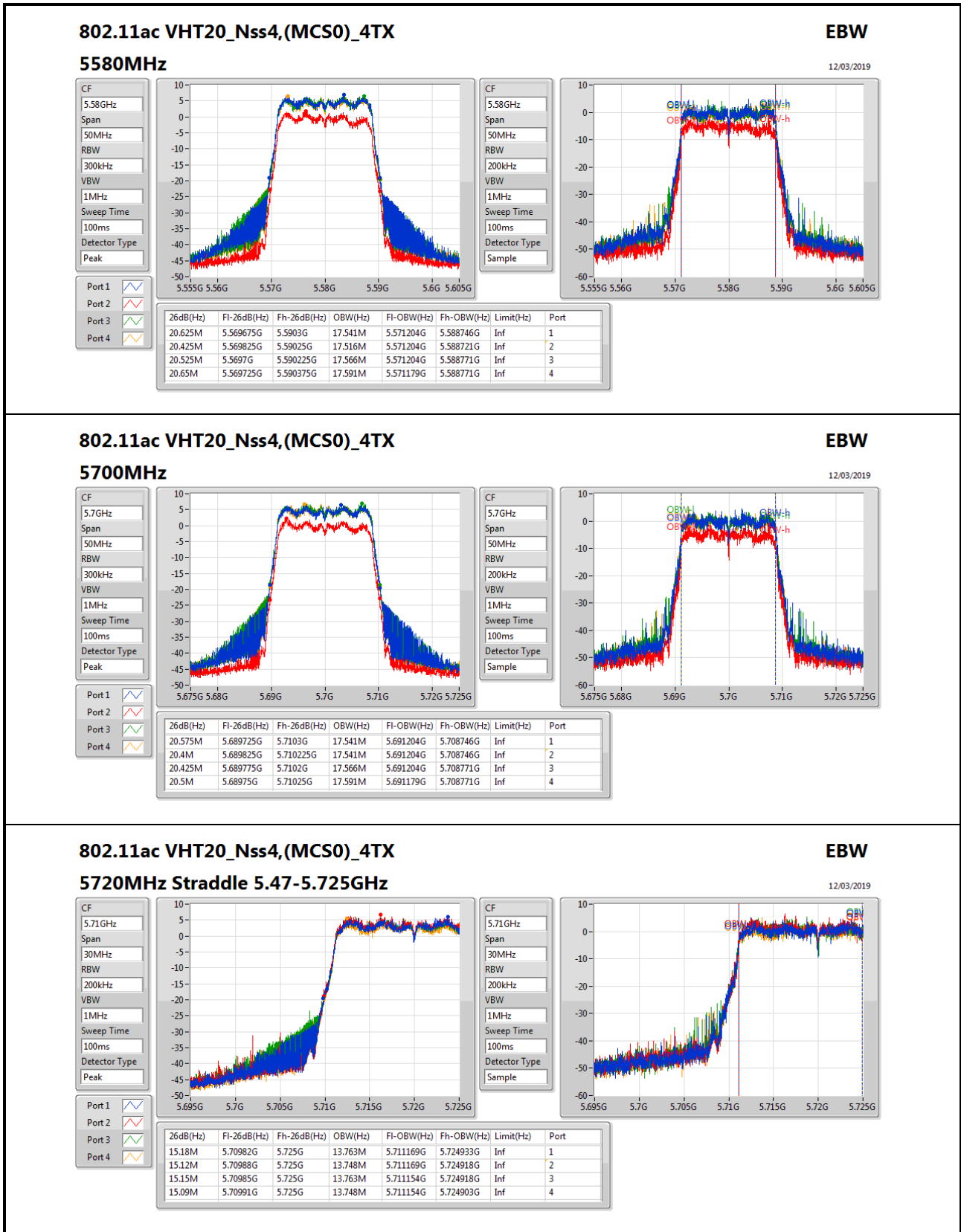


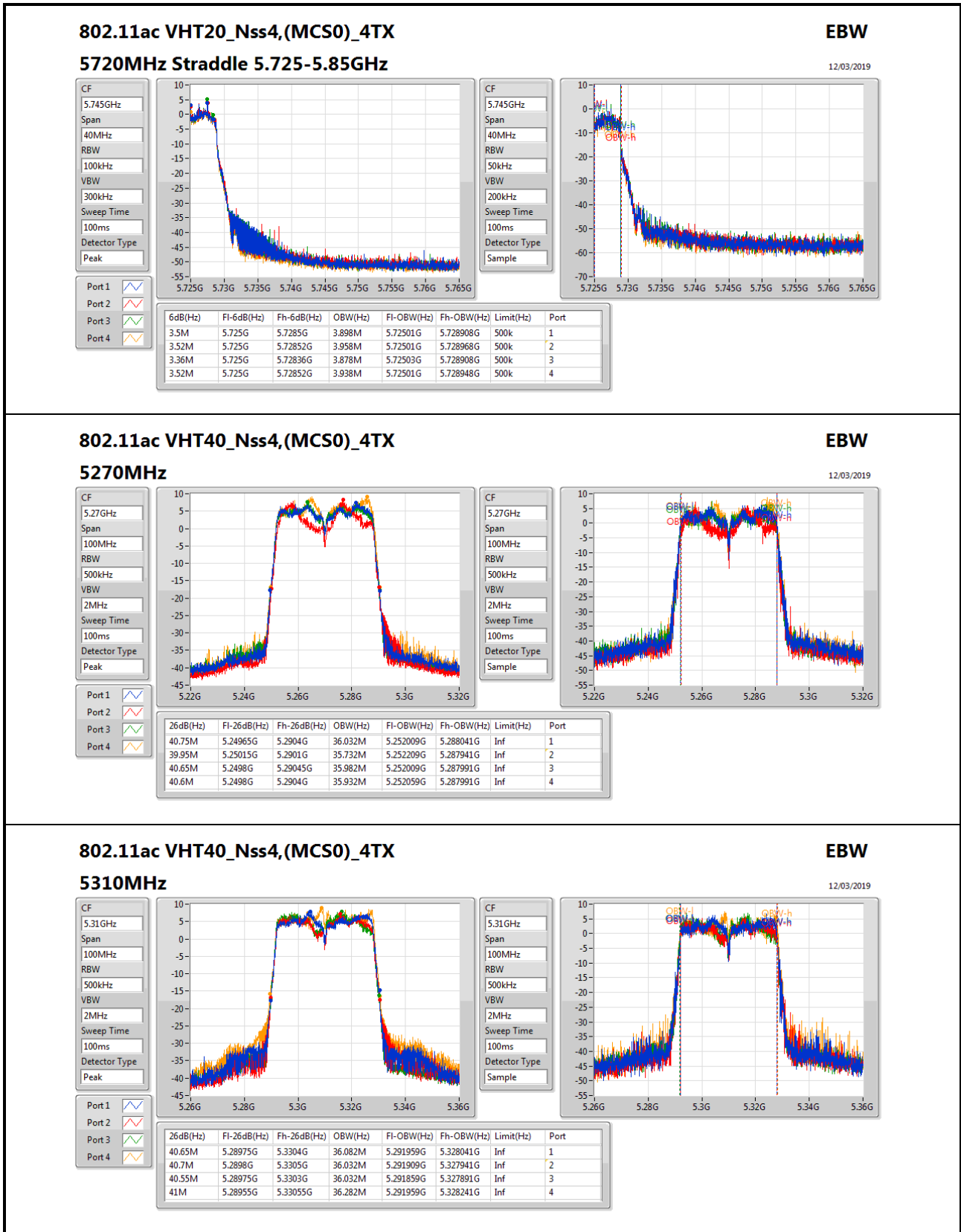


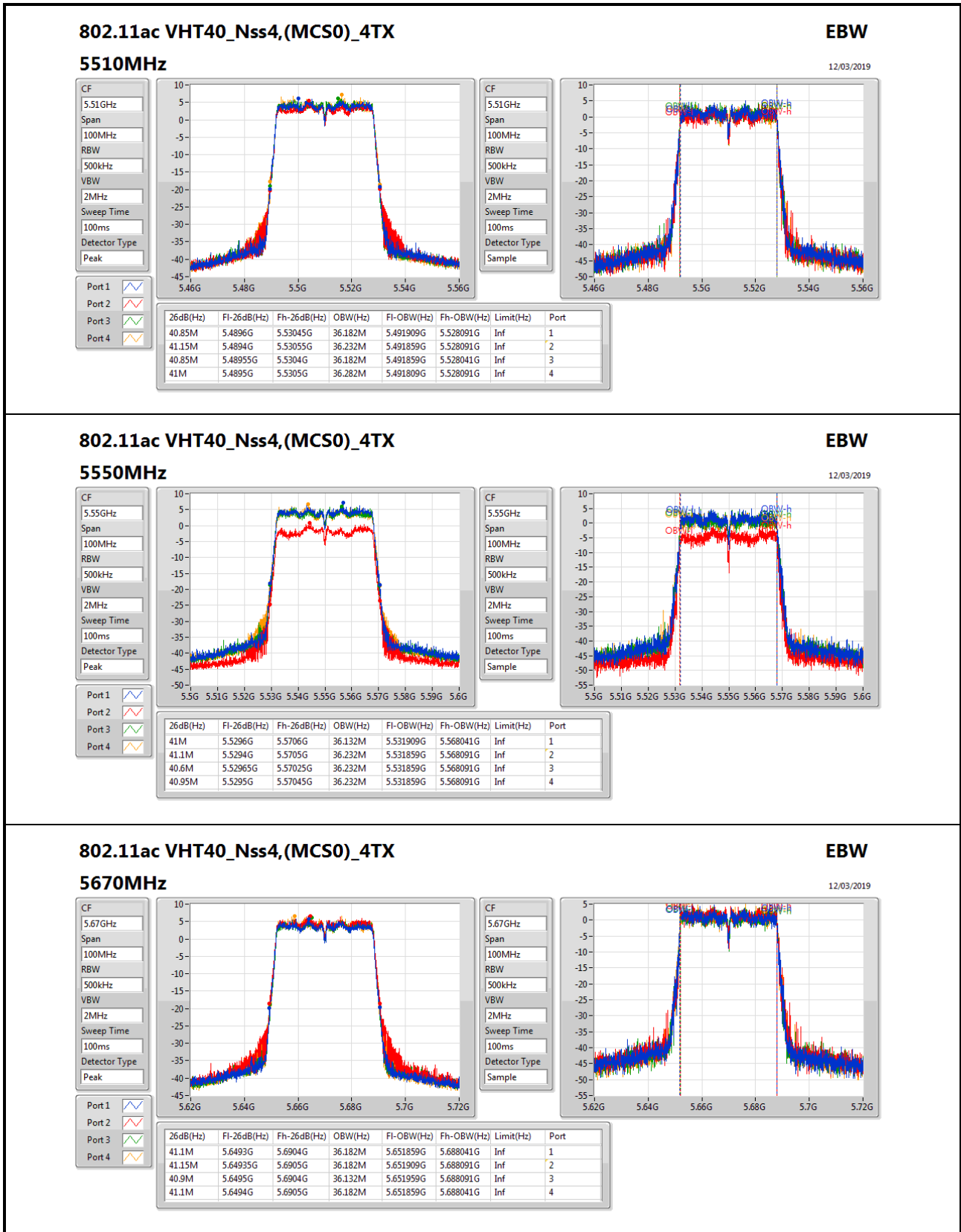


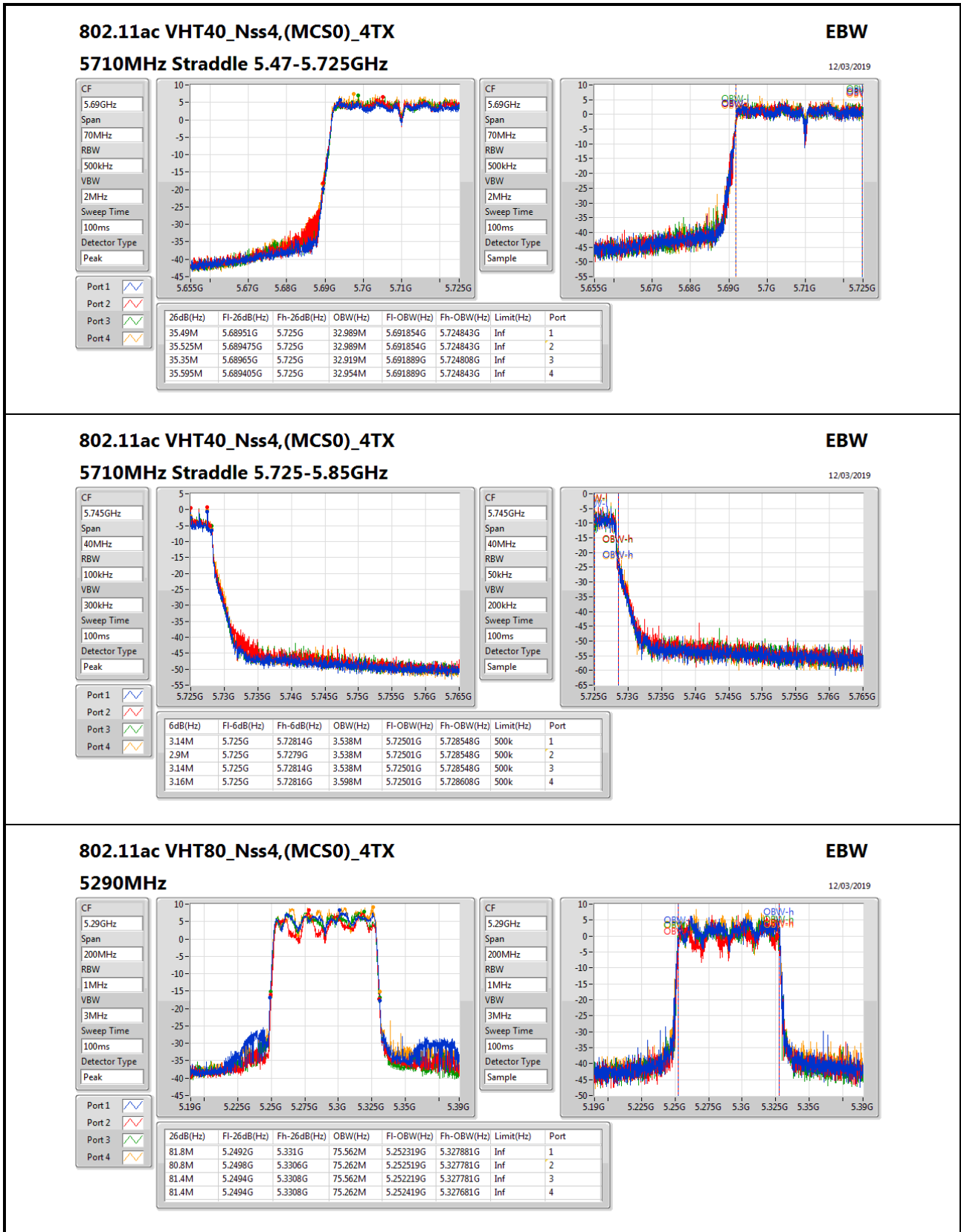


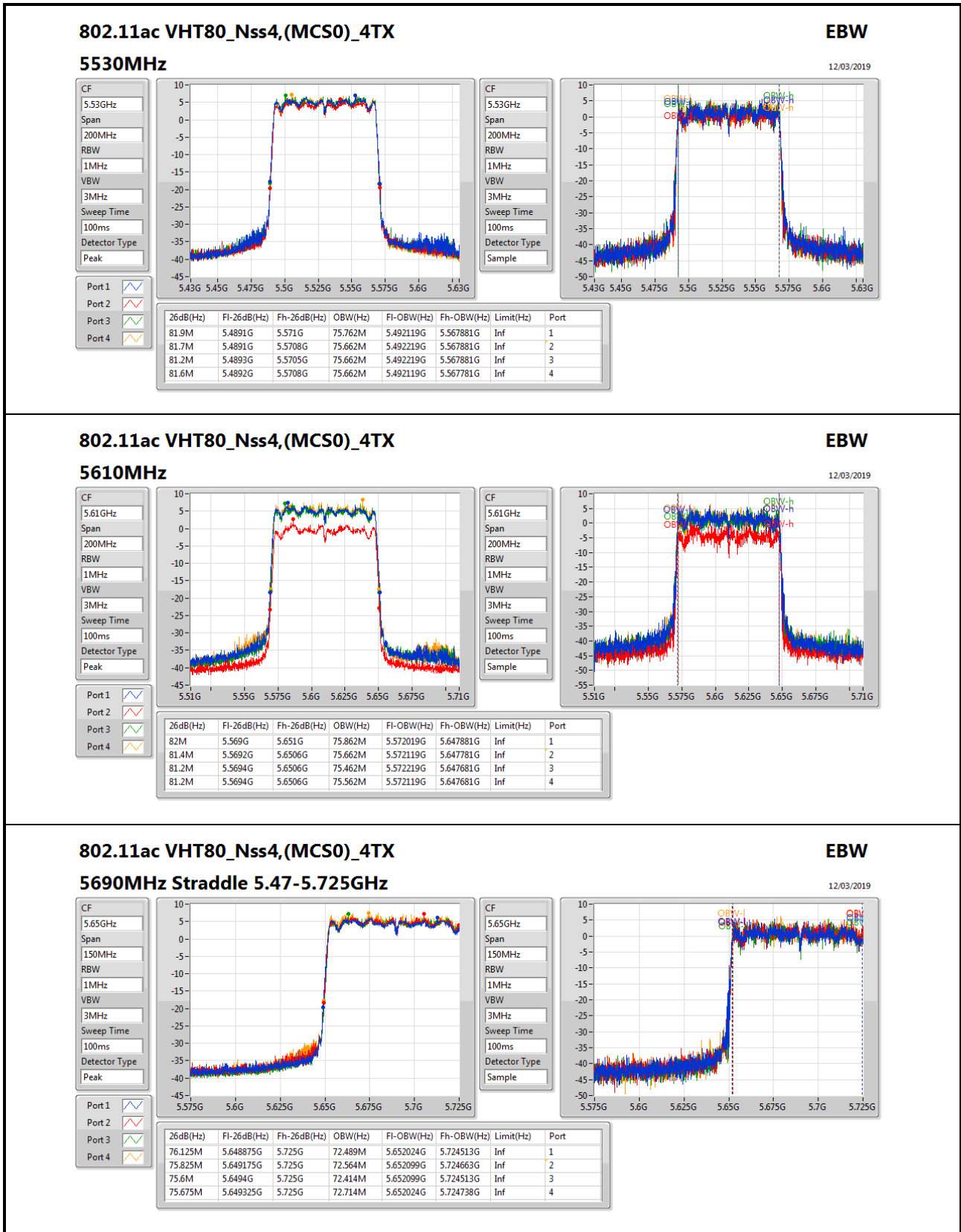


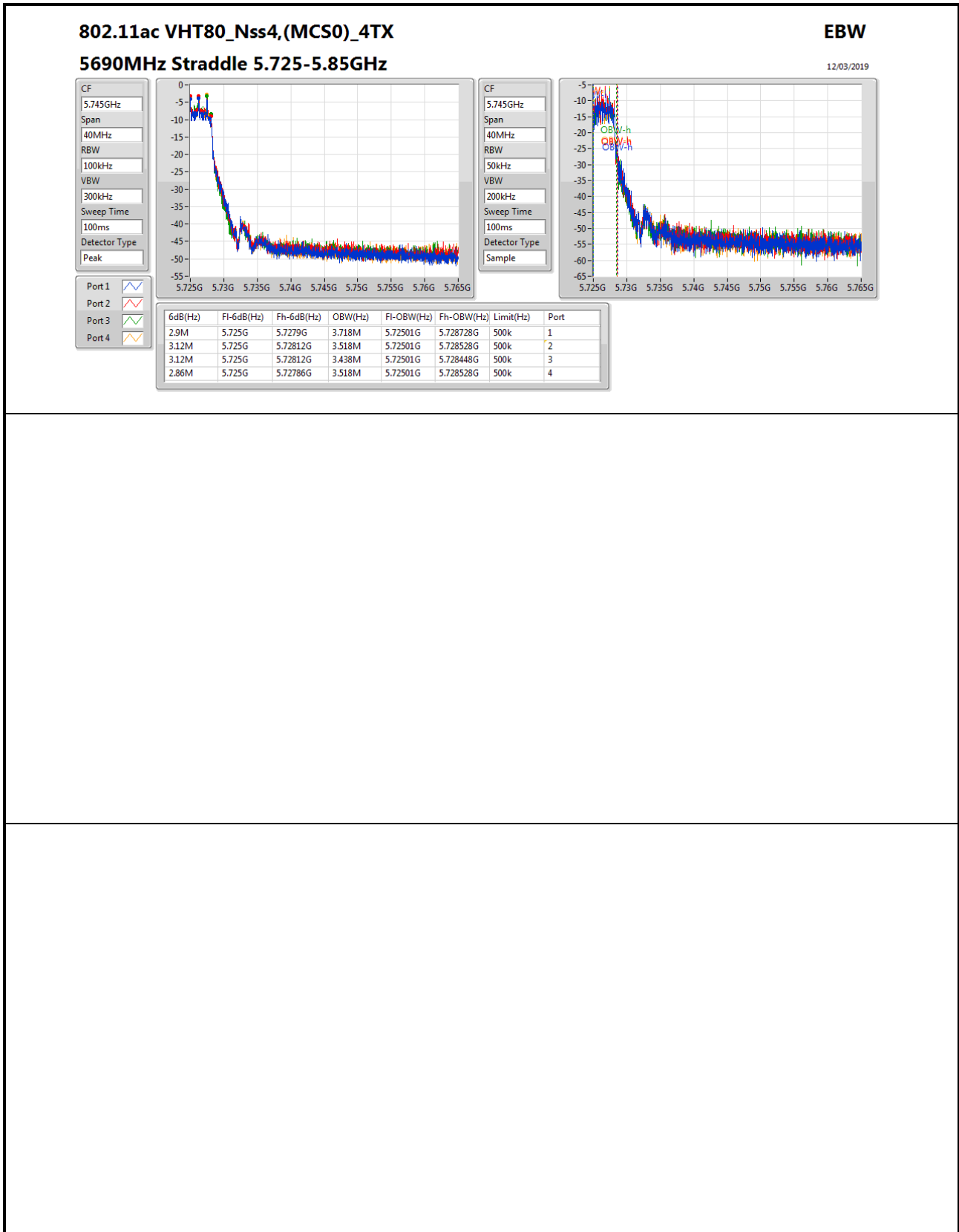
















**Summary**

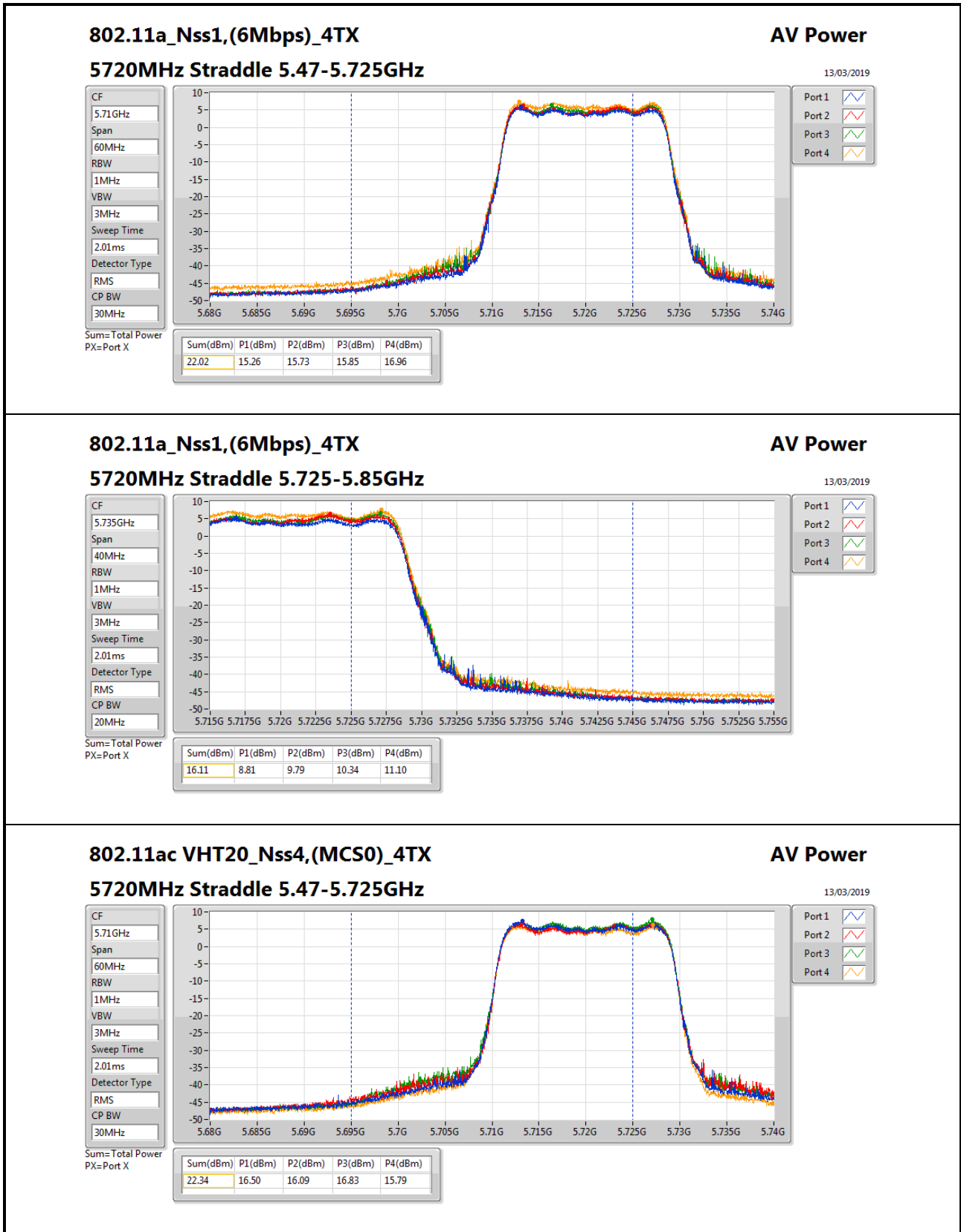
Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.42	0.21979	27.31	0.53827
802.11ac VHT20_Nss4,(MCS0)_4TX	23.56	0.22699	27.45	0.55590
802.11ac VHT40_Nss4,(MCS0)_4TX	23.95	0.24831	27.83	0.60674
802.11ac VHT80_Nss4,(MCS0)_4TX	21.59	0.14421	25.37	0.34435
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	23.70	0.23442	28.79	0.75683
802.11ac VHT20_Nss4,(MCS0)_4TX	23.76	0.23768	28.81	0.76033
802.11ac VHT40_Nss4,(MCS0)_4TX	23.96	0.24889	29.05	0.80353
802.11ac VHT80_Nss4,(MCS0)_4TX	23.89	0.24491	29.09	0.81096
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.11	0.04083	21.31	0.13521
802.11ac VHT20_Nss4,(MCS0)_4TX	16.95	0.04955	22.15	0.16406
802.11ac VHT40_Nss4,(MCS0)_4TX	13.00	0.01995	18.20	0.06607
802.11ac VHT80_Nss4,(MCS0)_4TX	9.84	0.00964	15.04	0.03192



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	3.78	17.42	15.59	17.44	18.29	23.31	23.88	27.09	29.88
5300MHz	Pass	3.89	16.81	15.12	16.29	17.62	22.57	23.90	26.46	29.90
5320MHz	Pass	3.89	17.15	16.57	17.00	18.60	23.42	23.97	27.31	29.97
5500MHz	Pass	4.92	17.15	16.38	17.47	18.33	23.41	23.97	28.33	29.97
5580MHz	Pass	5.09	17.56	16.92	17.67	18.43	23.70	24.00	28.79	30.00
5700MHz	Pass	5.20	17.20	16.53	17.69	18.51	23.56	24.00	28.76	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.20	15.26	15.73	15.85	16.96	22.02	22.77	27.22	28.77
5720MHz Straddle 5.725-5.85GHz	Pass	5.20	8.81	9.79	10.34	11.10	16.11	30.00	21.31	36.00
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	3.78	17.40	16.23	17.09	18.00	23.25	23.97	27.03	29.97
5300MHz	Pass	3.89	17.83	15.95	17.24	18.52	23.50	24.00	27.39	30.00
5320MHz	Pass	3.89	17.75	16.58	17.56	18.11	23.56	24.00	27.45	30.00
5500MHz	Pass	4.92	18.06	16.81	18.21	17.76	23.76	24.00	28.68	30.00
5580MHz	Pass	5.09	17.86	16.85	18.05	17.93	23.72	24.00	28.81	30.00
5700MHz	Pass	5.20	17.51	16.39	17.96	17.39	23.37	24.00	28.57	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.20	16.50	16.09	16.83	15.79	22.34	22.79	27.54	28.79
5720MHz Straddle 5.725-5.85GHz	Pass	5.20	10.74	11.12	11.55	10.19	16.95	30.00	22.15	36.00
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	3.78	18.24	16.66	17.86	18.72	23.95	24.00	27.73	30.00
5310MHz	Pass	3.89	17.95	17.05	17.68	18.80	23.94	24.00	27.83	30.00
5510MHz	Pass	4.92	17.84	17.45	17.51	17.38	23.57	24.00	28.49	30.00
5550MHz	Pass	5.09	18.68	17.78	17.64	17.54	23.96	24.00	29.05	30.00
5670MHz	Pass	5.09	17.57	18.62	17.08	17.31	23.71	24.00	28.80	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.20	17.08	17.88	17.44	17.54	23.51	24.00	28.71	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.20	7.07	7.20	6.78	6.87	13.00	30.00	18.20	36.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	3.78	16.00	14.49	15.19	16.35	21.59	24.00	25.37	30.00
5530MHz	Pass	4.92	17.65	17.22	17.25	17.09	23.33	24.00	28.25	30.00
5610MHz	Pass	5.09	18.15	17.57	17.33	17.96	23.78	24.00	28.87	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.20	17.82	18.29	17.38	17.94	23.89	24.00	29.09	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.20	3.71	4.25	3.37	3.91	9.84	30.00	15.04	36.00

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



**802.11ac VHT20\_Nss4,(MCS0)\_4TX**

**5720MHz Straddle 5.47-5.725GHz**

**AV Power**

13/03/2019

CF

5.71GHz

Span

60MHz

RBW

1MHz

VBW

3MHz

Sweep Time

2.01ms

Detector Type

RMS

CP BW

30MHz

Port 1

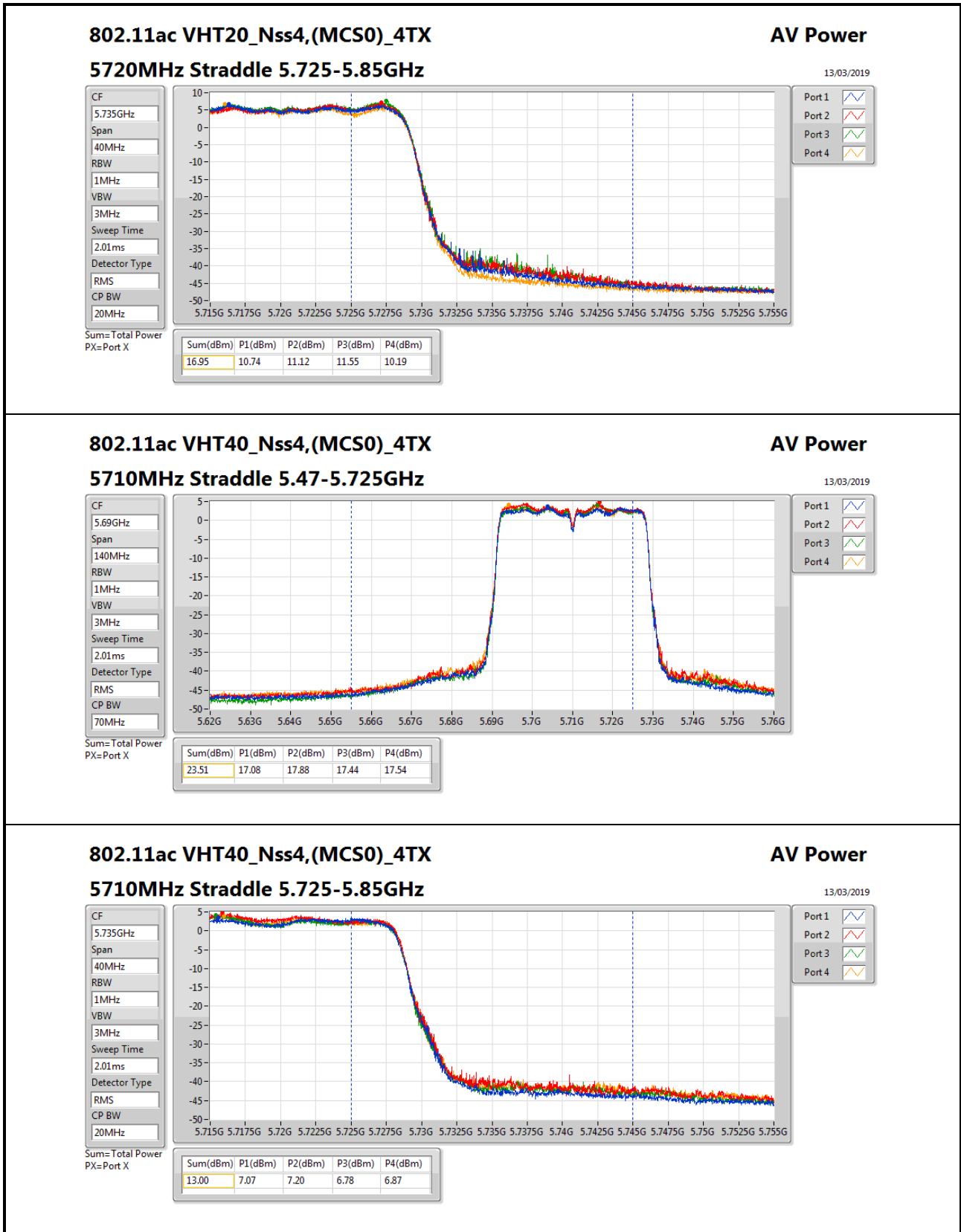
Port 2

Port 3

Port 4

Sum=Total Power  
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
22.34	16.50	16.09	16.83	15.79



**802.11ac VHT40\_Nss4,(MCS0)\_4TX**

**5710MHz Straddle 5.725-5.85GHz**

**AV Power**

13/03/2019

CF

5.735GHz

Span

40MHz

RBW

1MHz

VBW

3MHz

Sweep Time

2.01ms

Detector Type

RMS

CP BW

20MHz

Port 1

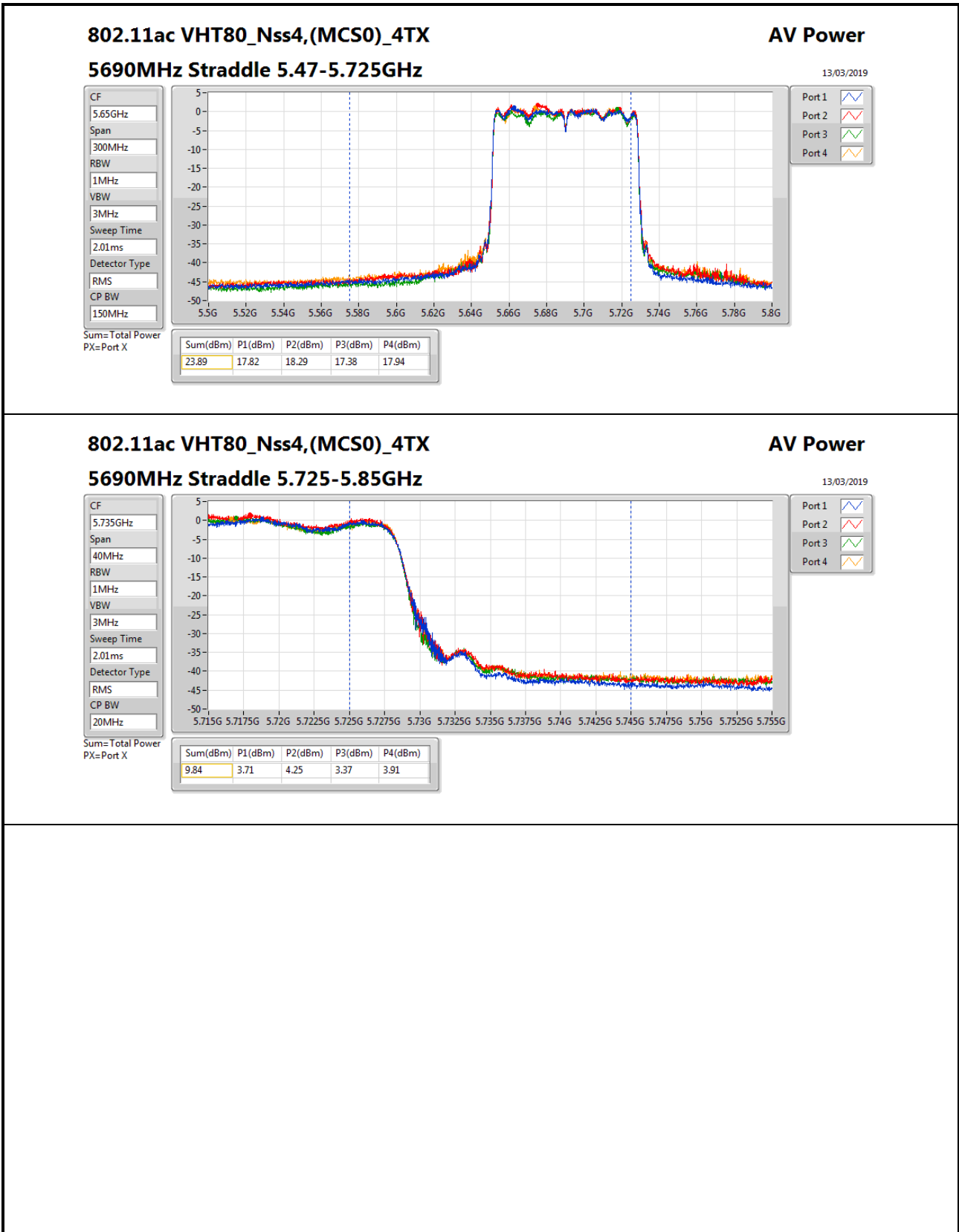
Port 2

Port 3

Port 4

Sum=Total Power  
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
13.00	7.07	7.20	6.78	6.87





Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	10.95	14.84
802.11ac VHT20_Nss4,(MCS0)_4TX	10.98	14.87
802.11ac VHT40_Nss4,(MCS0)_4TX	8.88	12.66
802.11ac VHT80_Nss4,(MCS0)_4TX	3.80	7.58
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	10.98	16.07
802.11ac VHT20_Nss4,(MCS0)_4TX	10.89	16.09
802.11ac VHT40_Nss4,(MCS0)_4TX	8.45	13.54
802.11ac VHT80_Nss4,(MCS0)_4TX	5.44	10.56
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	9.07	14.27
802.11ac VHT20_Nss4,(MCS0)_4TX	9.32	14.52
802.11ac VHT40_Nss4,(MCS0)_4TX	5.50	10.70
802.11ac VHT80_Nss4,(MCS0)_4TX	2.73	7.93

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

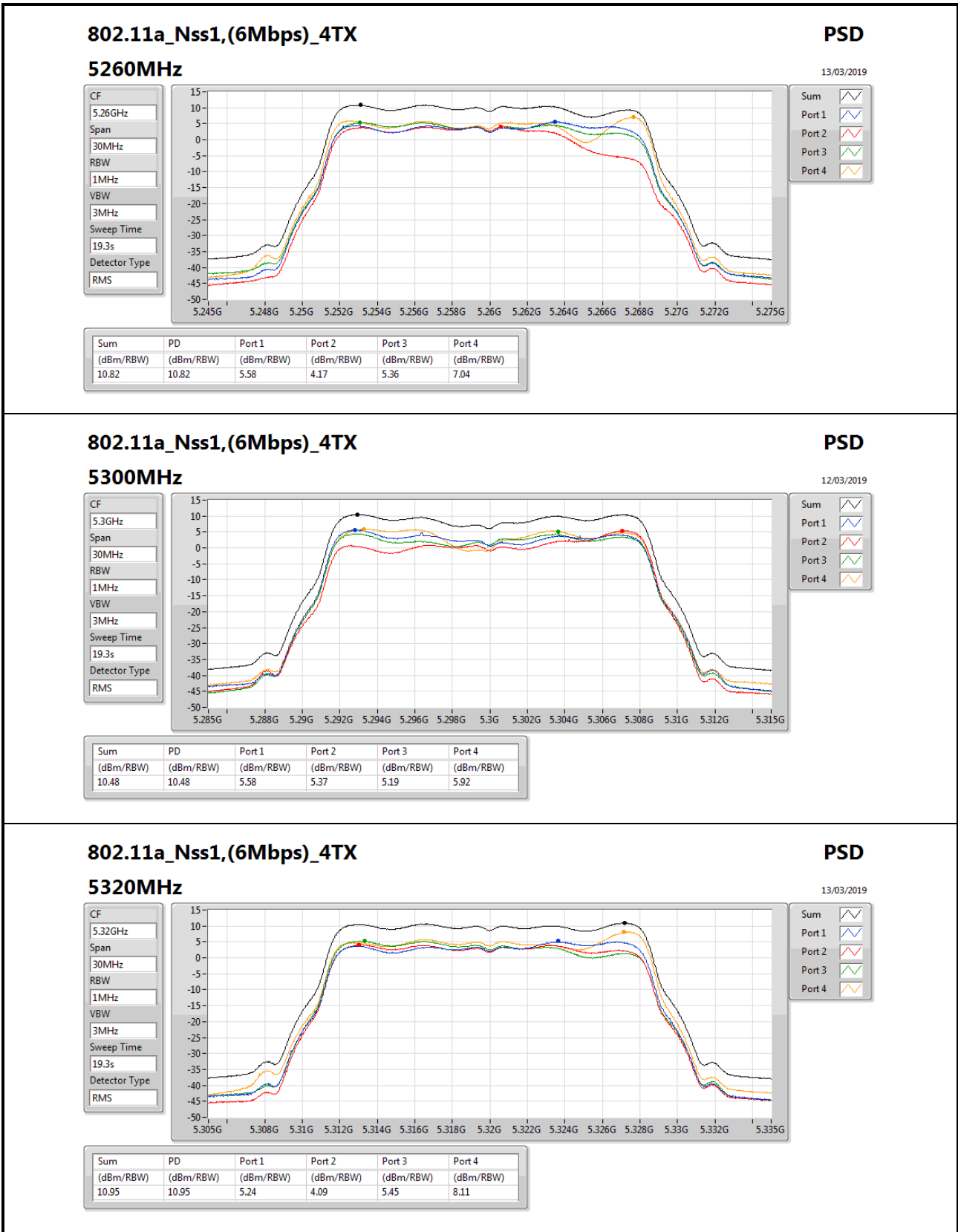


Result

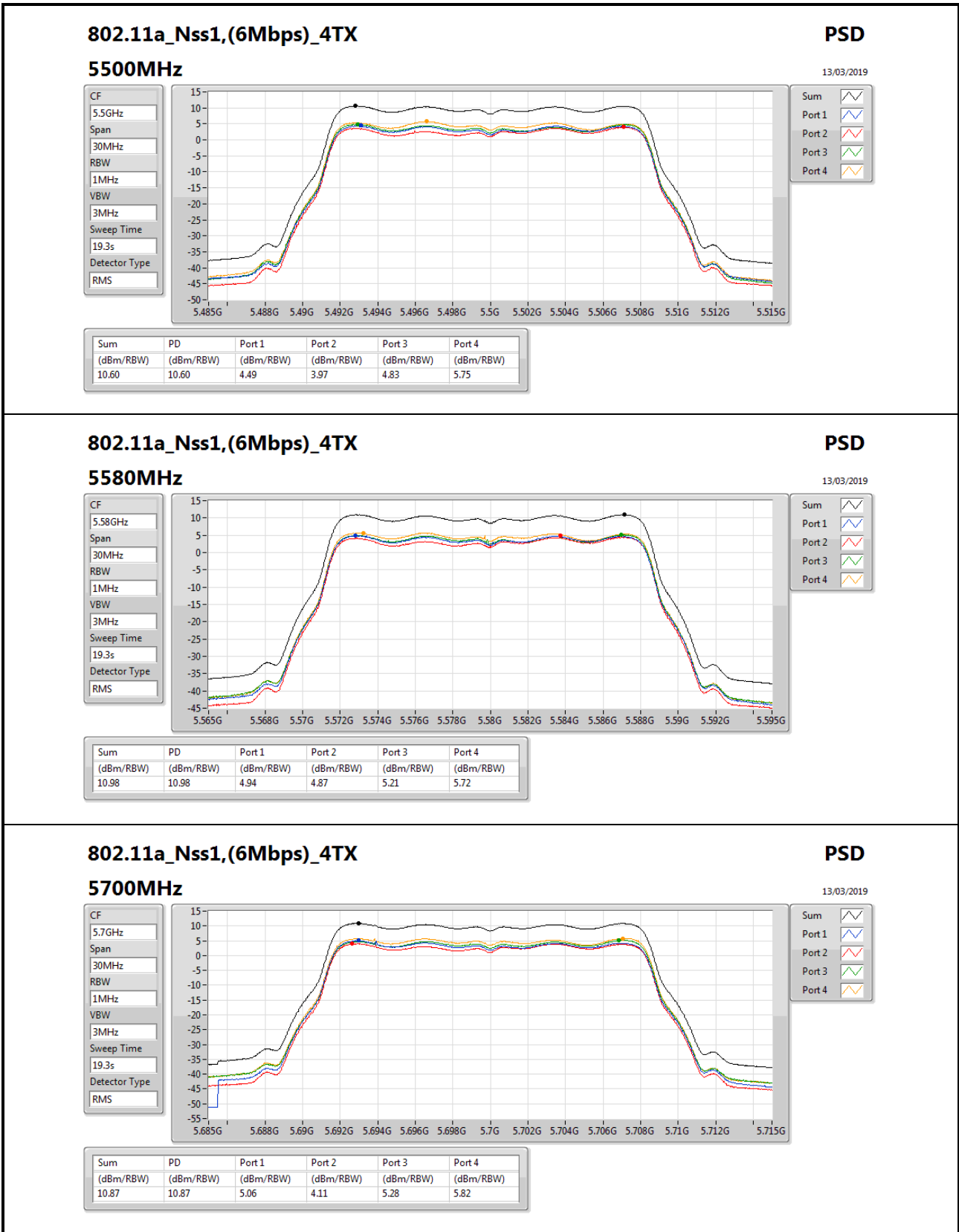
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	3.78	5.58	4.17	5.36	7.04	10.82	11.00	14.60	17.00
5300MHz	Pass	3.89	5.58	5.37	5.19	5.92	10.48	11.00	14.37	17.00
5320MHz	Pass	3.89	5.24	4.09	5.45	8.11	10.95	11.00	14.84	17.00
5500MHz	Pass	4.92	4.49	3.97	4.83	5.75	10.60	11.00	15.52	17.00
5580MHz	Pass	5.09	4.94	4.87	5.21	5.72	10.98	11.00	16.07	17.00
5700MHz	Pass	5.20	5.06	4.11	5.28	5.82	10.87	11.00	16.07	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.20	3.82	4.48	4.27	5.70	10.57	11.00	15.77	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.20	1.92	2.64	3.17	4.26	9.07	30.00	14.27	36.00
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	3.78	5.40	6.25	5.74	7.16	10.78	11.00	14.56	17.00
5300MHz	Pass	3.89	6.09	5.28	4.80	6.85	10.98	11.00	14.87	17.00
5320MHz	Pass	3.89	5.90	3.99	5.68	7.17	10.50	11.00	14.39	17.00
5500MHz	Pass	4.92	5.04	4.22	5.49	4.73	10.59	11.00	15.51	17.00
5580MHz	Pass	5.09	5.03	4.20	4.98	4.95	10.67	11.00	15.76	17.00
5700MHz	Pass	5.20	5.22	3.66	5.18	4.54	10.45	11.00	15.65	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.20	5.41	5.09	5.13	4.11	10.89	11.00	16.09	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.20	3.01	3.24	4.14	2.93	9.32	30.00	14.52	36.00
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	3.78	3.33	3.93	3.36	5.82	8.88	11.00	12.66	17.00
5310MHz	Pass	3.89	3.02	3.08	2.62	4.61	8.42	11.00	12.31	17.00
5510MHz	Pass	4.92	2.30	2.28	1.99	2.19	8.08	11.00	13.00	17.00
5550MHz	Pass	5.09	3.04	2.61	2.10	2.23	8.45	11.00	13.54	17.00
5670MHz	Pass	5.09	2.13	3.09	1.88	1.70	8.13	11.00	13.22	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.20	2.27	2.81	2.18	2.23	8.13	11.00	13.33	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.20	-0.29	-0.04	-0.85	-0.49	5.50	30.00	10.70	36.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	3.78	-1.31	-1.53	-1.83	-0.41	3.80	11.00	7.58	17.00
5530MHz	Pass	4.92	-0.56	-0.45	-0.42	-1.13	5.14	11.00	10.06	17.00
5610MHz	Pass	5.09	-0.10	-0.42	-0.80	-0.06	5.44	11.00	10.53	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.20	-0.31	0.11	-0.75	-0.30	5.36	11.00	10.56	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.20	-3.31	-2.60	-3.52	-3.39	2.73	30.00	7.93	36.00

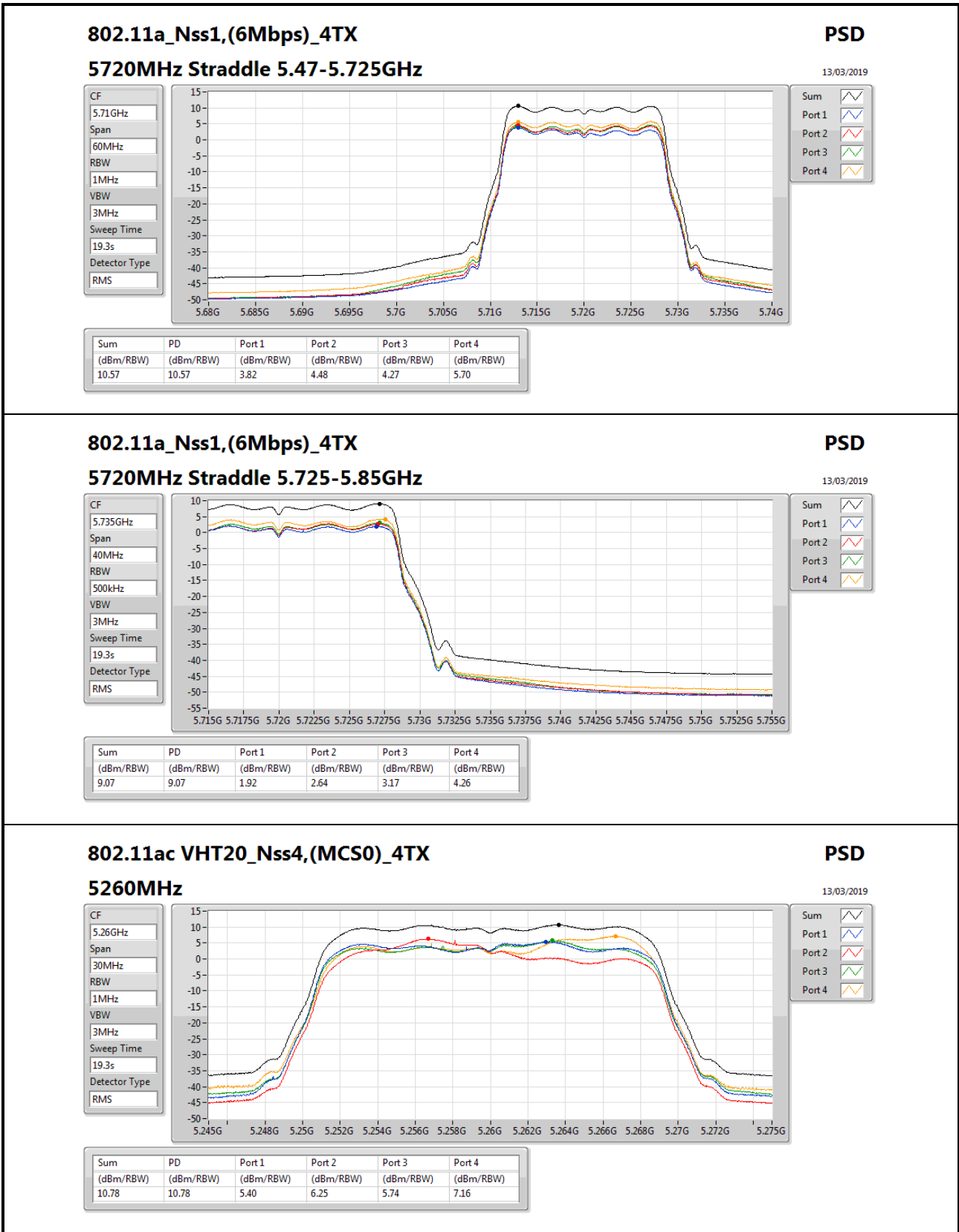
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

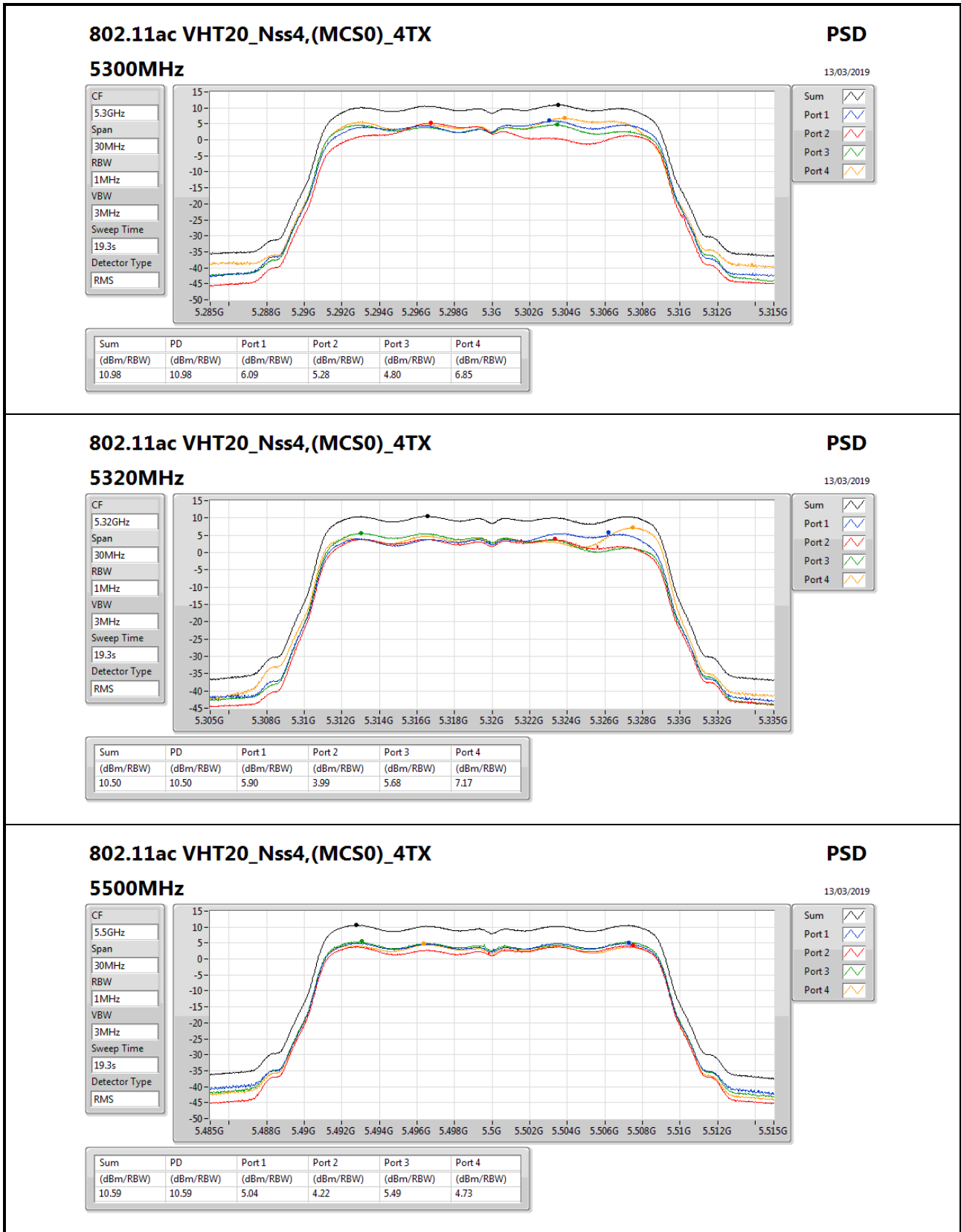
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;

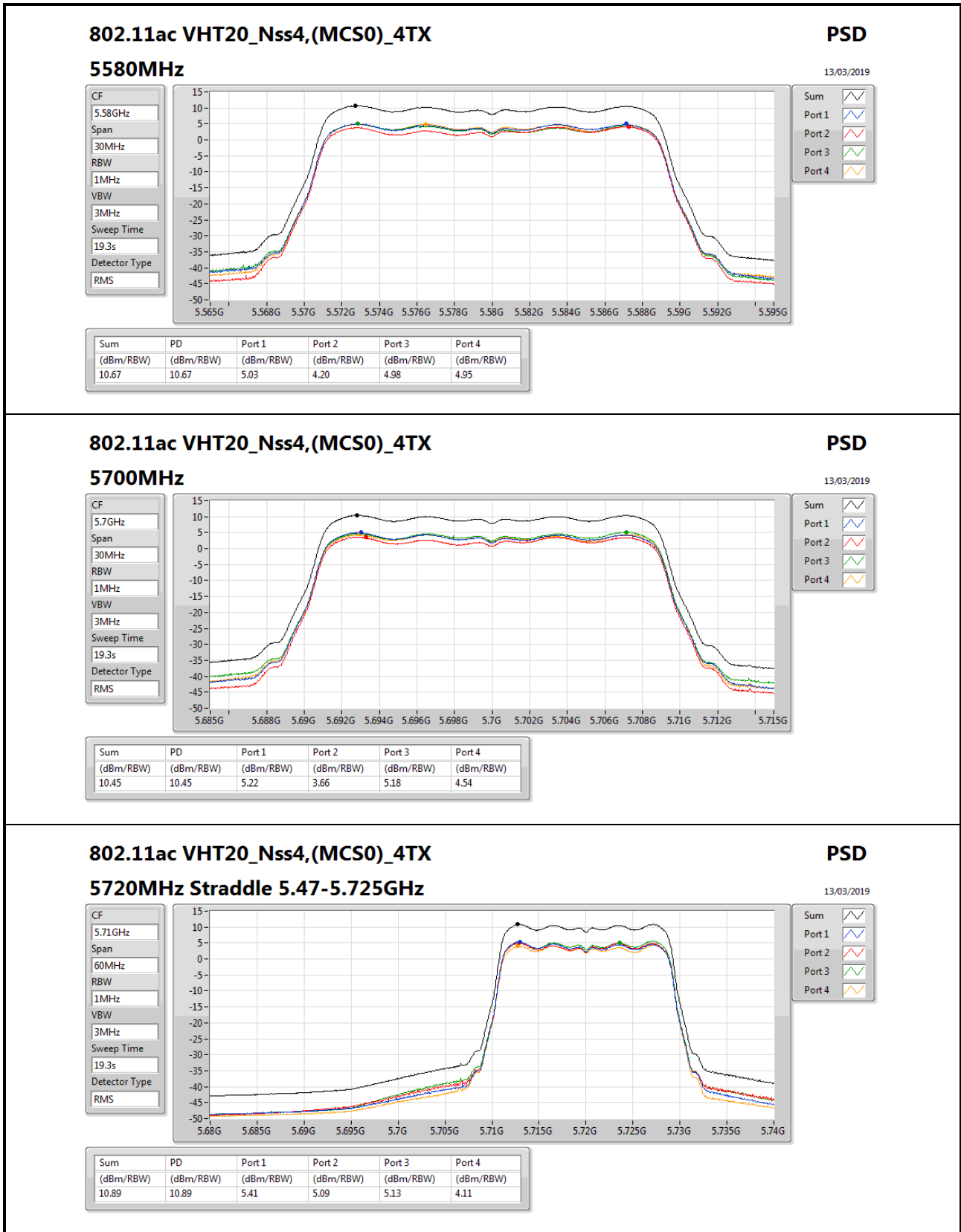


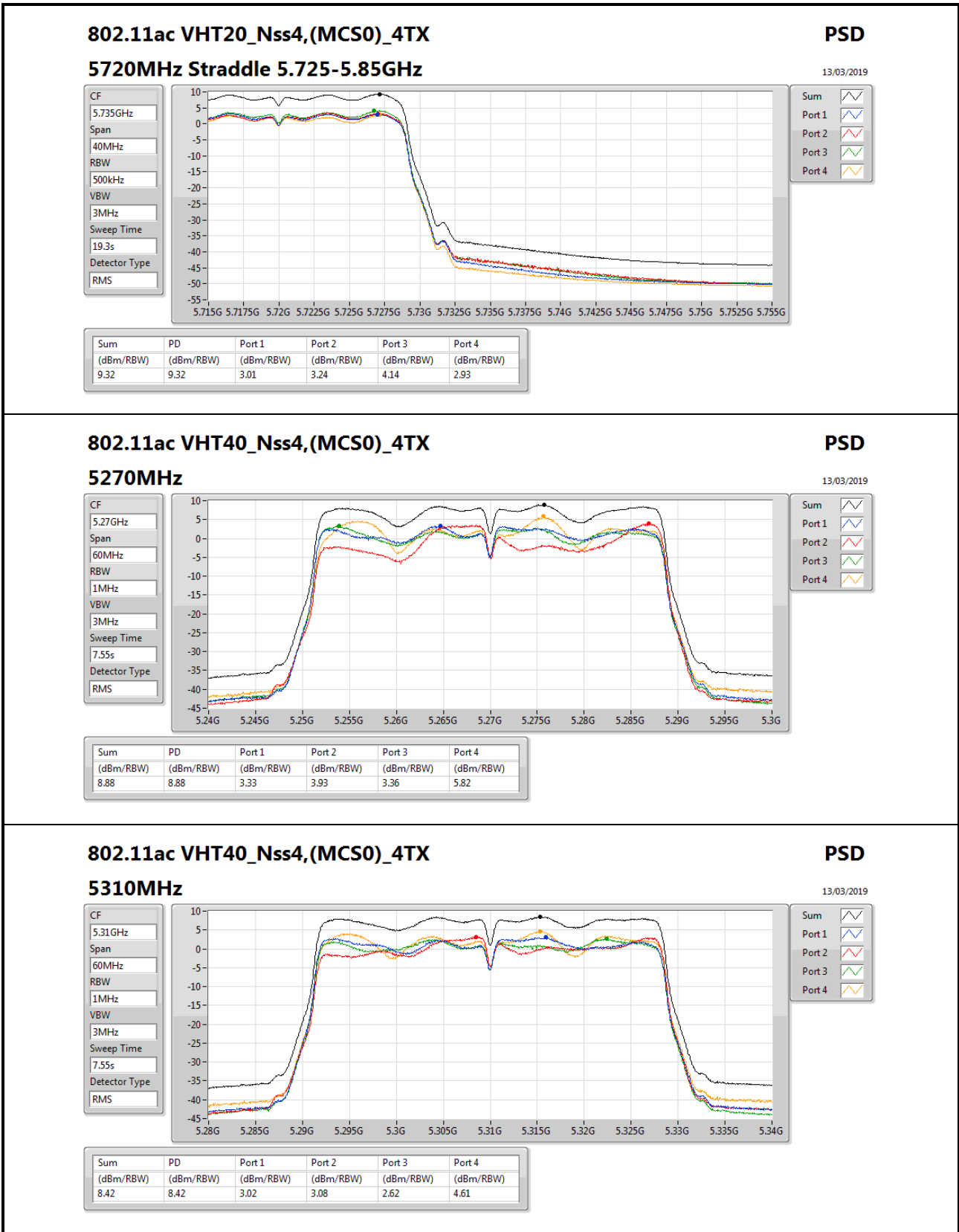


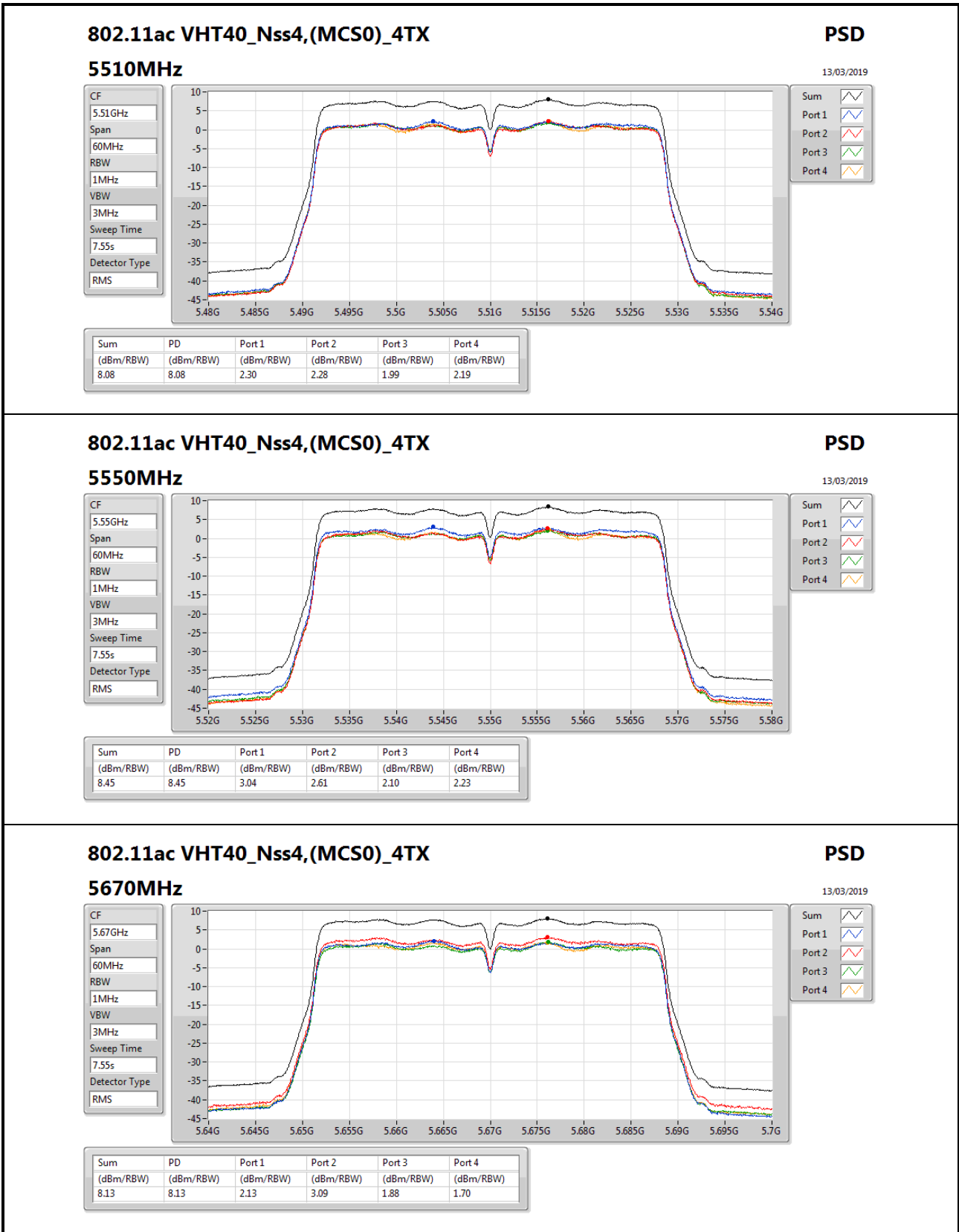


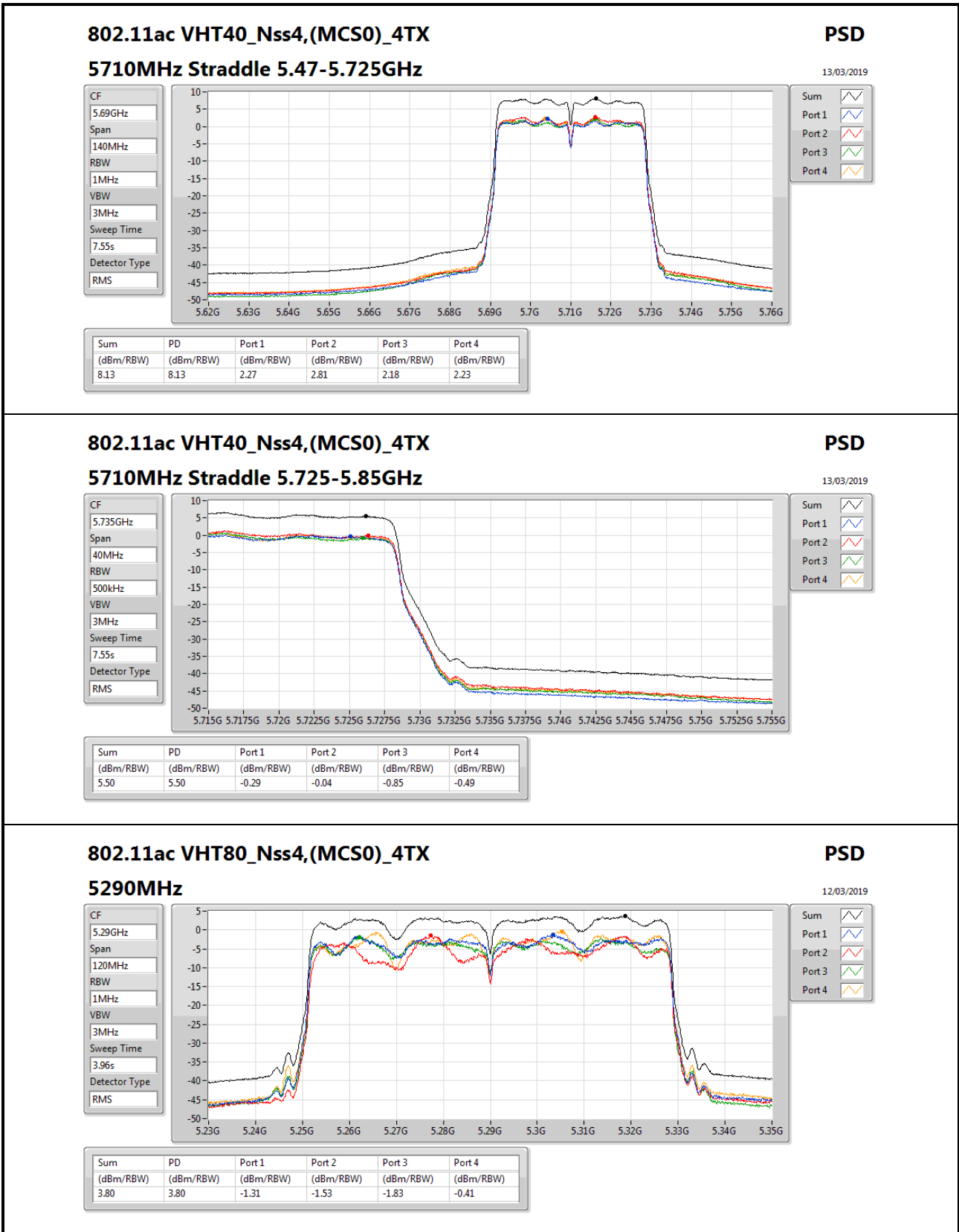


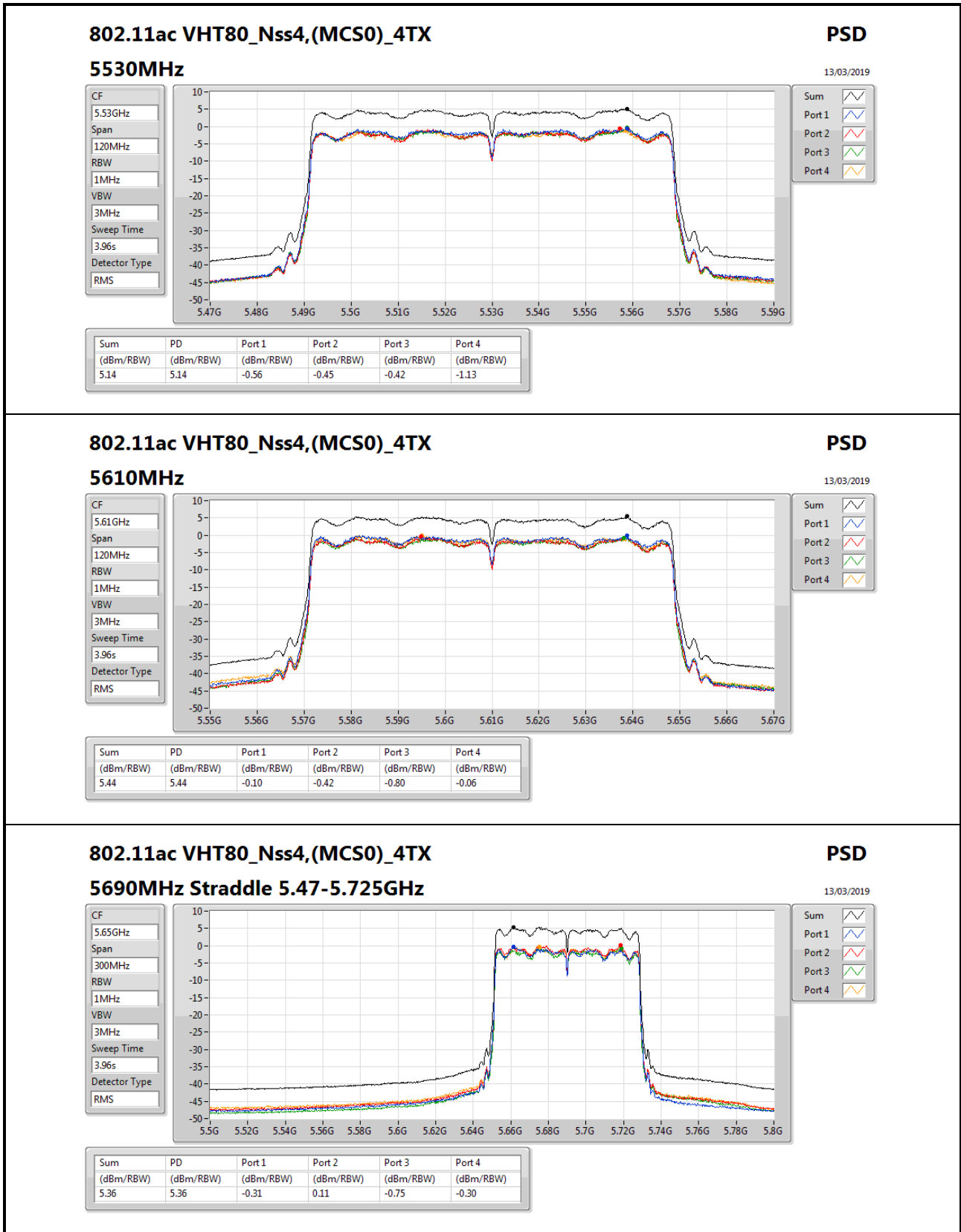




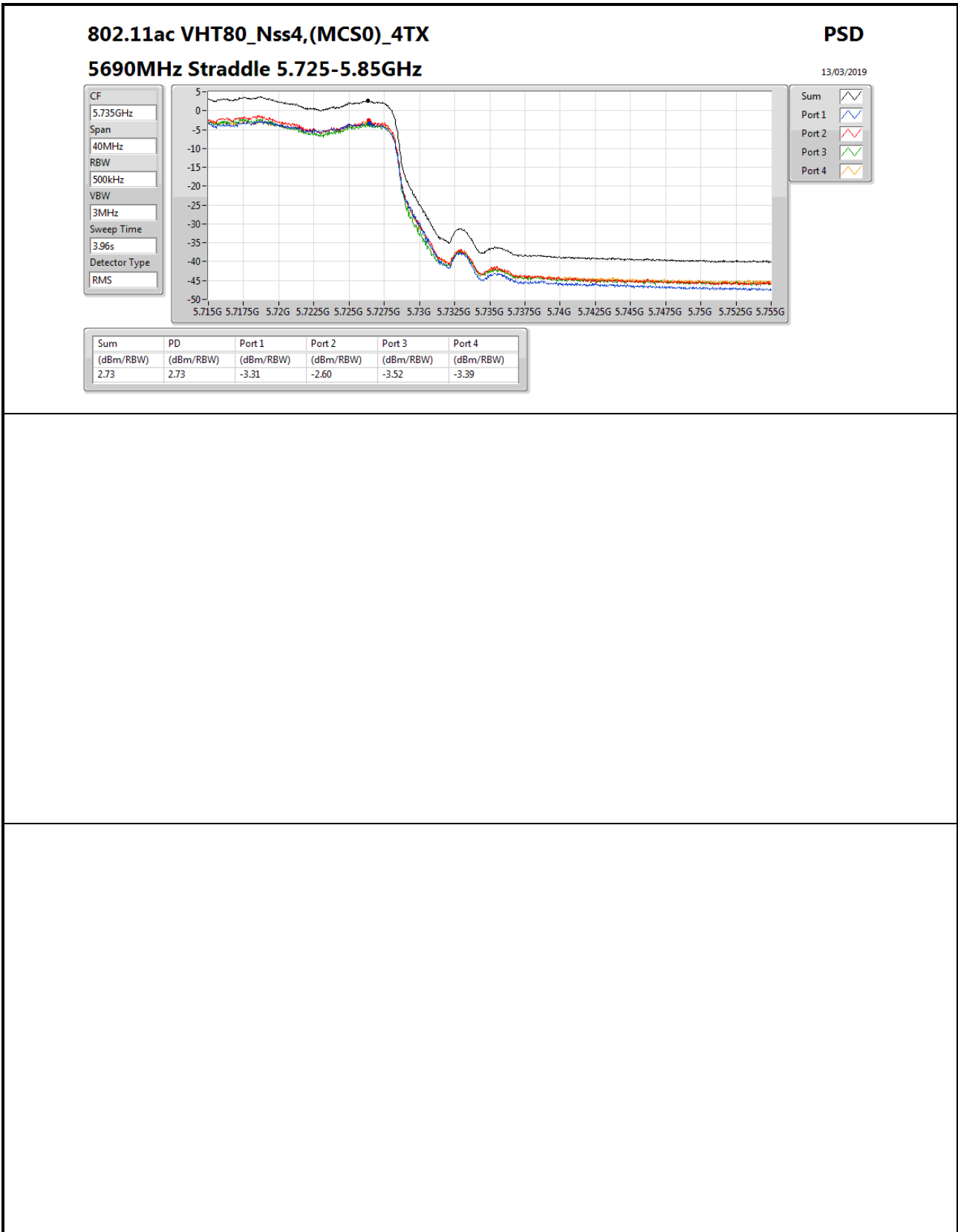














Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	10.52006G	53.94	54.00	-0.06	13.29	3	Vertical	269	1.77	-
802.11ac VHT20_Nss4,(MCS0)_4TX	Pass	AV	10.5275G	53.92	54.00	-0.08	13.30	3	Vertical	283	2.17	-
802.11ac VHT40_Nss4,(MCS0)_4TX	Pass	AV	5.3516G	53.15	54.00	-0.85	2.97	3	Horizontal	289	2.10	-
802.11ac VHT80_Nss4,(MCS0)_4TX	Pass	AV	5.355G	53.04	54.00	-0.96	2.97	3	Horizontal	316	2.19	-
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	11.15778G	53.83	54.00	-0.17	13.88	3	Vertical	290	1.72	-
802.11ac VHT20_Nss4,(MCS0)_4TX	Pass	PK	5.466G	68.03	68.20	-0.17	3.11	3	Horizontal	295	1.59	-
802.11ac VHT40_Nss4,(MCS0)_4TX	Pass	PK	5.7312G	68.08	68.20	-0.12	3.59	3	Vertical	279	2.93	-
802.11ac VHT80_Nss4,(MCS0)_4TX	Pass	AV	5.4572G	53.71	54.00	-0.29	3.09	3	Horizontal	315	1.47	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1424G	44.91	54.00	-9.09	2.74	3	Vertical	287	2.97	-
5260MHz	Pass	AV	5.2558G	109.27	Inf	-Inf	2.86	3	Vertical	287	2.97	-
5260MHz	Pass	AV	5.3824G	46.04	54.00	-7.96	3.01	3	Vertical	287	2.97	-
5260MHz	Pass	PK	5.137G	57.39	74.00	-16.61	2.73	3	Vertical	287	2.97	-
5260MHz	Pass	PK	5.2564G	118.11	Inf	-Inf	2.86	3	Vertical	287	2.97	-
5260MHz	Pass	PK	5.41G	57.94	74.00	-16.06	3.04	3	Vertical	287	2.97	-
5260MHz	Pass	AV	5.146G	48.19	54.00	-5.81	2.74	3	Horizontal	316	2.18	-
5260MHz	Pass	AV	5.2666G	114.65	Inf	-Inf	2.88	3	Horizontal	316	2.18	-
5260MHz	Pass	AV	5.3542G	49.31	54.00	-4.69	2.97	3	Horizontal	316	2.18	-
5260MHz	Pass	PK	5.1268G	60.62	74.00	-13.38	2.72	3	Horizontal	316	2.18	-
5260MHz	Pass	PK	5.2672G	123.92	Inf	-Inf	2.88	3	Horizontal	316	2.18	-
5260MHz	Pass	PK	5.3572G	61.13	74.00	-12.87	2.97	3	Horizontal	316	2.18	-
5260MHz	Pass	AV	10.52006G	53.94	54.00	-0.06	13.29	3	Vertical	269	1.77	-
5260MHz	Pass	PK	10.52012G	68.14	74.00	-5.86	13.29	3	Vertical	269	1.77	-
5260MHz	Pass	AV	10.5203G	52.72	54.00	-1.28	13.29	3	Horizontal	298	1.45	-
5260MHz	Pass	PK	10.51982G	66.21	74.00	-7.79	13.29	3	Horizontal	298	1.45	-
5300MHz	Pass	AV	5.2932G	109.79	Inf	-Inf	2.91	3	Vertical	306	2.16	-
5300MHz	Pass	AV	5.352G	50.53	54.00	-3.47	2.97	3	Vertical	306	2.16	-
5300MHz	Pass	PK	5.2932G	118.78	Inf	-Inf	2.91	3	Vertical	306	2.16	-
5300MHz	Pass	PK	5.354G	67.77	74.00	-6.23	2.97	3	Vertical	306	2.16	-
5300MHz	Pass	AV	5.3068G	114.66	Inf	-Inf	2.91	3	Horizontal	307	2.21	-
5300MHz	Pass	AV	5.35G	53.60	54.00	-0.40	2.96	3	Horizontal	307	2.21	-
5300MHz	Pass	PK	5.3064G	123.23	Inf	-Inf	2.91	3	Horizontal	307	2.21	-
5300MHz	Pass	PK	5.3652G	67.86	74.00	-6.14	2.99	3	Horizontal	307	2.21	-
5300MHz	Pass	AV	10.60624G	53.40	54.00	-0.60	13.41	3	Vertical	290	2.10	-
5300MHz	Pass	PK	10.60786G	65.86	74.00	-8.14	13.41	3	Vertical	290	2.10	-
5300MHz	Pass	AV	10.6018G	52.26	54.00	-1.74	13.40	3	Horizontal	273	2.25	-
5300MHz	Pass	PK	10.60072G	65.38	74.00	-8.62	13.40	3	Horizontal	273	2.25	-
5320MHz	Pass	AV	5.3132G	106.94	Inf	-Inf	2.93	3	Vertical	12	1.54	-
5320MHz	Pass	AV	5.3518G	52.71	54.00	-1.29	2.97	3	Vertical	12	1.54	-
5320MHz	Pass	PK	5.3158G	115.61	Inf	-Inf	2.93	3	Vertical	12	1.54	-
5320MHz	Pass	PK	5.353G	72.44	74.00	-1.56	2.97	3	Vertical	12	1.54	-
5320MHz	Pass	AV	5.3268G	110.10	Inf	-Inf	2.95	3	Horizontal	302	1.58	-
5320MHz	Pass	AV	5.35G	53.31	54.00	-0.69	2.96	3	Horizontal	302	1.58	-
5320MHz	Pass	PK	5.327G	118.52	Inf	-Inf	2.95	3	Horizontal	302	1.58	-
5320MHz	Pass	PK	5.351G	69.62	74.00	-4.38	2.97	3	Horizontal	302	1.58	-
5320MHz	Pass	AV	10.63376G	47.71	54.00	-6.29	13.44	3	Vertical	298	1.70	-
5320MHz	Pass	PK	10.6334G	60.24	74.00	-13.76	13.44	3	Vertical	298	1.70	-
5320MHz	Pass	AV	10.63616G	45.80	54.00	-8.20	13.45	3	Horizontal	238	1.56	-
5320MHz	Pass	PK	10.63616G	58.24	74.00	-15.76	13.45	3	Horizontal	238	1.56	-
5500MHz	Pass	AV	5.4544G	45.61	54.00	-8.39	3.09	3	Vertical	25	1.46	-
5500MHz	Pass	AV	5.4928G	106.32	Inf	-Inf	3.13	3	Vertical	25	1.46	-
5500MHz	Pass	PK	5.4668G	63.97	68.20	-4.23	3.11	3	Vertical	25	1.46	-
5500MHz	Pass	PK	5.493G	115.08	Inf	-Inf	3.14	3	Vertical	25	1.46	-
5500MHz	Pass	AV	5.4572G	43.37	54.00	-10.63	3.09	3	Horizontal	64	2.02	-
5500MHz	Pass	AV	5.5078G	99.40	Inf	-Inf	3.16	3	Horizontal	64	2.02	-
5500MHz	Pass	PK	5.469G	67.64	68.20	-0.56	3.10	3	Horizontal	64	2.02	-

Remark :

Page No. : D2 of D104

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5500MHz	Pass	PK	5.5076G	108.09	Inf	-Inf	3.16	3	Horizontal	64	2.02	-
5500MHz	Pass	AV	11.00186G	43.37	54.00	-10.63	13.96	3	Vertical	270	1.66	-
5500MHz	Pass	PK	11.00066G	55.79	74.00	-18.21	13.96	3	Vertical	270	1.66	-
5500MHz	Pass	AV	10.99772G	43.28	54.00	-10.72	13.95	3	Horizontal	235	1.70	-
5500MHz	Pass	PK	11.00504G	55.12	74.00	-18.88	13.96	3	Horizontal	235	1.70	-
5580MHz	Pass	AV	5.4546G	45.30	54.00	-8.70	3.09	3	Vertical	14	1.50	-
5580MHz	Pass	AV	5.5734G	111.69	Inf	-Inf	3.28	3	Vertical	14	1.50	-
5580MHz	Pass	PK	5.4636G	58.21	68.20	-9.99	3.10	3	Vertical	14	1.50	-
5580MHz	Pass	PK	5.5734G	120.86	Inf	-Inf	3.28	3	Vertical	14	1.50	-
5580MHz	Pass	PK	5.7288G	57.21	68.20	-10.99	3.59	3	Vertical	14	1.50	-
5580MHz	Pass	AV	5.4486G	47.55	54.00	-6.45	3.08	3	Horizontal	307	1.60	-
5580MHz	Pass	AV	5.5866G	115.85	Inf	-Inf	3.31	3	Horizontal	307	1.60	-
5580MHz	Pass	PK	5.4684G	65.30	68.20	-2.90	3.11	3	Horizontal	307	1.60	-
5580MHz	Pass	PK	5.5866G	125.46	Inf	-Inf	3.31	3	Horizontal	307	1.60	-
5580MHz	Pass	PK	5.7276G	62.08	68.20	-6.12	3.59	3	Horizontal	307	1.60	-
5580MHz	Pass	AV	11.15778G	53.83	54.00	-0.17	13.88	3	Vertical	290	1.72	-
5580MHz	Pass	PK	11.15724G	66.74	74.00	-7.26	13.88	3	Vertical	290	1.72	-
5580MHz	Pass	AV	11.16132G	52.16	54.00	-1.84	13.87	3	Horizontal	259	2.15	-
5580MHz	Pass	PK	11.16114G	65.18	74.00	-8.82	13.87	3	Horizontal	259	2.15	-
5700MHz	Pass	AV	5.6932G	102.23	Inf	-Inf	3.53	3	Vertical	302	1.44	-
5700MHz	Pass	PK	5.6928G	111.11	Inf	-Inf	3.52	3	Vertical	302	1.44	-
5700MHz	Pass	PK	5.726G	61.13	68.20	-7.07	3.59	3	Vertical	302	1.44	-
5700MHz	Pass	AV	5.7072G	107.84	Inf	-Inf	3.56	3	Horizontal	309	1.62	-
5700MHz	Pass	PK	5.7068G	117.15	Inf	-Inf	3.55	3	Horizontal	309	1.62	-
5700MHz	Pass	PK	5.7252G	67.59	68.20	-0.61	3.59	3	Horizontal	309	1.62	-
5700MHz	Pass	AV	11.39376G	41.96	54.00	-12.04	13.73	3	Vertical	331	2.06	-
5700MHz	Pass	PK	11.39856G	54.82	74.00	-19.18	13.73	3	Vertical	331	2.06	-
5700MHz	Pass	AV	11.40144G	42.00	54.00	-12.00	13.74	3	Horizontal	259	2.14	-
5700MHz	Pass	PK	11.391G	54.19	74.00	-19.81	13.74	3	Horizontal	259	2.14	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4356G	47.63	54.00	-6.37	3.06	3	Vertical	258	2.76	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7128G	111.56	Inf	-Inf	3.56	3	Vertical	258	2.76	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4692G	59.55	68.20	-8.65	3.10	3	Vertical	258	2.76	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.714G	120.72	Inf	-Inf	3.56	3	Vertical	258	2.76	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8748G	58.15	68.20	-10.05	3.88	3	Vertical	258	2.76	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4512G	49.01	54.00	-4.99	3.09	3	Horizontal	196	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7128G	112.99	Inf	-Inf	3.56	3	Horizontal	196	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4644G	60.47	68.20	-7.73	3.11	3	Horizontal	196	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7128G	122.33	Inf	-Inf	3.56	3	Horizontal	196	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.8724G	59.43	68.20	-8.77	3.88	3	Horizontal	196	1.60	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43994G	53.60	54.00	-0.40	13.72	3	Vertical	307	1.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43988G	65.70	74.00	-8.30	13.72	3	Vertical	307	1.95	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44132G	51.88	54.00	-2.12	13.72	3	Horizontal	233	1.36	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44066G	64.07	74.00	-9.93	13.72	3	Horizontal	233	1.36	-
802.11ac VHT20_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5260MHz	Pass	AV	5.1118G	44.74	54.00	-9.26	2.70	3	Vertical	289	1.96	-
5260MHz	Pass	AV	5.2534G	106.43	Inf	-Inf	2.86	3	Vertical	289	1.96	-
5260MHz	Pass	AV	5.3722G	45.56	54.00	-8.44	2.99	3	Vertical	289	1.96	-
5260MHz	Pass	PK	5.1154G	57.09	74.00	-16.91	2.70	3	Vertical	289	1.96	-
5260MHz	Pass	PK	5.2528G	115.30	Inf	-Inf	2.86	3	Vertical	289	1.96	-

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5260MHz	Pass	PK	5.3704G	58.32	74.00	-15.68	2.99	3	Vertical	289	1.96	-
5260MHz	Pass	AV	5.1454G	47.47	54.00	-6.53	2.74	3	Horizontal	297	2.22	-
5260MHz	Pass	AV	5.2672G	112.34	Inf	-Inf	2.88	3	Horizontal	297	2.22	-
5260MHz	Pass	AV	5.3872G	48.52	54.00	-5.48	3.01	3	Horizontal	297	2.22	-
5260MHz	Pass	PK	5.1286G	59.89	74.00	-14.11	2.72	3	Horizontal	297	2.22	-
5260MHz	Pass	PK	5.2666G	120.92	Inf	-Inf	2.88	3	Horizontal	297	2.22	-
5260MHz	Pass	PK	5.3842G	60.60	74.00	-13.40	3.01	3	Horizontal	297	2.22	-
5260MHz	Pass	AV	10.5275G	53.92	54.00	-0.08	13.30	3	Vertical	283	2.17	-
5260MHz	Pass	PK	10.52522G	67.61	74.00	-6.39	13.30	3	Vertical	283	2.17	-
5260MHz	Pass	AV	10.52036G	52.91	54.00	-1.09	13.29	3	Horizontal	285	1.47	-
5260MHz	Pass	PK	10.51922G	65.47	74.00	-8.53	13.29	3	Horizontal	285	1.47	-
5300MHz	Pass	AV	5.2936G	109.80	Inf	-Inf	2.91	3	Vertical	3	1.46	-
5300MHz	Pass	AV	5.3516G	52.97	54.00	-1.03	2.97	3	Vertical	3	1.46	-
5300MHz	Pass	PK	5.2932G	119.72	Inf	-Inf	2.91	3	Vertical	3	1.46	-
5300MHz	Pass	PK	5.3516G	69.59	74.00	-4.41	2.97	3	Vertical	3	1.46	-
5300MHz	Pass	AV	5.3072G	113.69	Inf	-Inf	2.92	3	Horizontal	289	1.51	-
5300MHz	Pass	AV	5.358G	53.43	54.00	-0.57	2.97	3	Horizontal	289	1.51	-
5300MHz	Pass	PK	5.3076G	122.56	Inf	-Inf	2.92	3	Horizontal	289	1.51	-
5300MHz	Pass	PK	5.3652G	71.30	74.00	-2.70	2.99	3	Horizontal	289	1.51	-
5300MHz	Pass	AV	10.59502G	53.78	54.00	-0.22	13.39	3	Vertical	298	1.98	-
5300MHz	Pass	PK	10.59592G	67.49	74.00	-6.51	13.39	3	Vertical	298	1.98	-
5300MHz	Pass	AV	10.59658G	52.51	54.00	-1.49	13.39	3	Horizontal	226	1.63	-
5300MHz	Pass	PK	10.59706G	65.84	74.00	-8.16	13.39	3	Horizontal	226	1.63	-
5320MHz	Pass	AV	5.3164G	106.08	Inf	-Inf	2.93	3	Vertical	277	2.89	-
5320MHz	Pass	AV	5.35G	51.55	54.00	-2.45	2.96	3	Vertical	277	2.89	-
5320MHz	Pass	PK	5.3162G	116.26	Inf	-Inf	2.93	3	Vertical	277	2.89	-
5320MHz	Pass	PK	5.3546G	69.61	74.00	-4.39	2.97	3	Vertical	277	2.89	-
5320MHz	Pass	AV	5.3126G	106.90	Inf	-Inf	2.93	3	Horizontal	208	1.68	-
5320MHz	Pass	AV	5.351G	53.80	54.00	-0.20	2.97	3	Horizontal	208	1.68	-
5320MHz	Pass	PK	5.3126G	116.26	Inf	-Inf	2.93	3	Horizontal	208	1.68	-
5320MHz	Pass	PK	5.3522G	73.86	74.00	-0.14	2.97	3	Horizontal	208	1.68	-
5320MHz	Pass	AV	10.64384G	47.90	54.00	-6.10	13.46	3	Vertical	268	1.76	-
5320MHz	Pass	PK	10.64312G	61.52	74.00	-12.48	13.46	3	Vertical	268	1.76	-
5320MHz	Pass	AV	10.63712G	46.36	54.00	-7.64	13.45	3	Horizontal	220	1.50	-
5320MHz	Pass	PK	10.6352G	59.67	74.00	-14.33	13.45	3	Horizontal	220	1.50	-
5500MHz	Pass	AV	5.4132G	44.69	54.00	-9.31	3.04	3	Vertical	4	1.50	-
5500MHz	Pass	AV	5.4932G	102.66	Inf	-Inf	3.14	3	Vertical	4	1.50	-
5500MHz	Pass	PK	5.466G	58.43	68.20	-9.77	3.11	3	Vertical	4	1.50	-
5500MHz	Pass	PK	5.4932G	111.37	Inf	-Inf	3.14	3	Vertical	4	1.50	-
5500MHz	Pass	AV	5.4272G	48.94	54.00	-5.06	3.06	3	Horizontal	292	1.52	-
5500MHz	Pass	AV	5.5068G	107.27	Inf	-Inf	3.15	3	Horizontal	292	1.52	-
5500MHz	Pass	PK	5.4668G	67.02	68.20	-1.18	3.11	3	Horizontal	292	1.52	-
5500MHz	Pass	PK	5.5068G	116.00	Inf	-Inf	3.15	3	Horizontal	292	1.52	-
5500MHz	Pass	AV	11.00936G	42.41	54.00	-11.59	13.95	3	Vertical	0	1.14	-
5500MHz	Pass	PK	11.00696G	55.81	74.00	-18.19	13.96	3	Vertical	0	1.14	-
5500MHz	Pass	AV	11.0074G	42.63	54.00	-11.37	13.96	3	Horizontal	33	1.50	-
5500MHz	Pass	PK	11.00052G	55.24	74.00	-18.76	13.96	3	Horizontal	33	1.50	-
5580MHz	Pass	AV	5.4534G	45.80	54.00	-8.20	3.09	3	Vertical	357	1.50	-
5580MHz	Pass	AV	5.5728G	111.16	Inf	-Inf	3.28	3	Vertical	357	1.50	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5580MHz	Pass	PK	5.4666G	60.38	68.20	-7.82	3.11	3	Vertical	357	1.50	-
5580MHz	Pass	PK	5.5734G	121.69	Inf	-Inf	3.28	3	Vertical	357	1.50	-
5580MHz	Pass	PK	5.7288G	57.33	68.20	-10.87	3.59	3	Vertical	357	1.50	-
5580MHz	Pass	AV	5.4486G	48.32	54.00	-5.68	3.08	3	Horizontal	295	1.59	-
5580MHz	Pass	AV	5.5872G	115.53	Inf	-Inf	3.31	3	Horizontal	295	1.59	-
5580MHz	Pass	PK	5.466G	68.03	68.20	-0.17	3.11	3	Horizontal	295	1.59	-
5580MHz	Pass	PK	5.5866G	124.35	Inf	-Inf	3.31	3	Horizontal	295	1.59	-
5580MHz	Pass	PK	5.727G	64.14	68.20	-4.06	3.59	3	Horizontal	295	1.59	-
5580MHz	Pass	AV	11.15688G	52.86	54.00	-1.14	13.88	3	Vertical	267	1.64	-
5580MHz	Pass	PK	11.1543G	66.03	74.00	-7.97	13.88	3	Vertical	267	1.64	-
5580MHz	Pass	AV	11.15928G	51.43	54.00	-2.57	13.87	3	Horizontal	110	2.65	-
5580MHz	Pass	PK	11.1591G	64.83	74.00	-9.17	13.87	3	Horizontal	110	2.65	-
5700MHz	Pass	AV	5.6928G	101.40	Inf	-Inf	3.52	3	Vertical	285	1.50	-
5700MHz	Pass	PK	5.6928G	110.72	Inf	-Inf	3.52	3	Vertical	285	1.50	-
5700MHz	Pass	PK	5.726G	59.68	68.20	-8.52	3.59	3	Vertical	285	1.50	-
5700MHz	Pass	AV	5.7076G	106.85	Inf	-Inf	3.56	3	Horizontal	293	1.50	-
5700MHz	Pass	PK	5.7064G	115.62	Inf	-Inf	3.55	3	Horizontal	293	1.50	-
5700MHz	Pass	PK	5.726G	67.63	68.20	-0.57	3.59	3	Horizontal	293	1.50	-
5700MHz	Pass	AV	11.38734G	41.83	54.00	-12.17	13.74	3	Vertical	200	1.50	-
5700MHz	Pass	PK	11.40474G	55.27	74.00	-18.73	13.74	3	Vertical	200	1.50	-
5700MHz	Pass	AV	11.40702G	41.92	54.00	-12.08	13.74	3	Horizontal	19	1.46	-
5700MHz	Pass	PK	11.39718G	54.54	74.00	-19.46	13.73	3	Horizontal	19	1.46	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4536G	45.62	54.00	-8.38	3.09	3	Vertical	274	1.61	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7128G	110.97	Inf	-Inf	3.56	3	Vertical	274	1.61	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.462G	58.39	68.20	-9.81	3.10	3	Vertical	274	1.61	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7128G	121.51	Inf	-Inf	3.56	3	Vertical	274	1.61	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.852G	58.31	68.20	-9.89	3.84	3	Vertical	274	1.61	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4476G	48.25	54.00	-5.75	3.08	3	Horizontal	280	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7272G	115.64	Inf	-Inf	3.59	3	Horizontal	280	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.462G	60.09	68.20	-8.11	3.10	3	Horizontal	280	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7272G	124.10	Inf	-Inf	3.59	3	Horizontal	280	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.87G	59.33	68.20	-8.87	3.88	3	Horizontal	280	1.71	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43922G	53.34	54.00	-0.66	13.72	3	Vertical	304	1.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.43916G	65.85	74.00	-8.15	13.72	3	Vertical	304	1.94	-
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43994G	53.06	54.00	-0.94	13.72	3	Horizontal	238	2.11	-
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44018G	65.42	74.00	-8.58	13.72	3	Horizontal	238	2.11	-
802.11ac VHT40_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5270MHz	Pass	AV	5.264G	105.16	Inf	-Inf	2.87	3	Vertical	349	1.50	-
5270MHz	Pass	AV	5.3516G	49.41	54.00	-4.59	2.97	3	Vertical	349	1.50	-
5270MHz	Pass	PK	5.2636G	113.90	Inf	-Inf	2.87	3	Vertical	349	1.50	-
5270MHz	Pass	PK	5.3532G	62.68	74.00	-11.32	2.97	3	Vertical	349	1.50	-
5270MHz	Pass	AV	5.2584G	108.52	Inf	-Inf	2.87	3	Horizontal	295	1.75	-
5270MHz	Pass	AV	5.3564G	53.04	54.00	-0.96	2.97	3	Horizontal	295	1.75	-
5270MHz	Pass	PK	5.2572G	117.03	Inf	-Inf	2.86	3	Horizontal	295	1.75	-
5270MHz	Pass	PK	5.3556G	68.43	74.00	-5.57	2.97	3	Horizontal	295	1.75	-
5270MHz	Pass	AV	10.54606G	51.05	54.00	-2.95	13.32	3	Vertical	268	2.12	-
5270MHz	Pass	PK	10.5454G	62.24	74.00	-11.76	13.32	3	Vertical	268	2.12	-
5270MHz	Pass	AV	10.54G	49.64	54.00	-4.36	13.31	3	Horizontal	272	1.44	-
5270MHz	Pass	PK	10.54024G	61.37	74.00	-12.63	13.31	3	Horizontal	272	1.44	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5310MHz	Pass	AV	5.304G	100.37	Inf	-Inf	2.91	3	Vertical	353	1.47	-
5310MHz	Pass	AV	5.35G	48.66	54.00	-5.34	2.96	3	Vertical	353	1.47	-
5310MHz	Pass	PK	5.3036G	109.03	Inf	-Inf	2.91	3	Vertical	353	1.47	-
5310MHz	Pass	PK	5.3504G	66.20	74.00	-7.80	2.97	3	Vertical	353	1.47	-
5310MHz	Pass	AV	5.2988G	103.65	Inf	-Inf	2.91	3	Horizontal	289	2.10	-
5310MHz	Pass	AV	5.3516G	53.15	54.00	-0.85	2.97	3	Horizontal	289	2.10	-
5310MHz	Pass	PK	5.3168G	113.45	Inf	-Inf	2.93	3	Horizontal	289	2.10	-
5310MHz	Pass	PK	5.3548G	72.22	74.00	-1.78	2.97	3	Horizontal	289	2.10	-
5310MHz	Pass	AV	10.61262G	45.22	54.00	-8.78	13.42	3	Vertical	261	1.69	-
5310MHz	Pass	PK	10.61274G	56.81	74.00	-17.19	13.42	3	Vertical	261	1.69	-
5310MHz	Pass	AV	10.61976G	44.52	54.00	-9.48	13.43	3	Horizontal	236	2.18	-
5310MHz	Pass	PK	10.6212G	56.55	74.00	-17.45	13.43	3	Horizontal	236	2.18	-
5510MHz	Pass	AV	5.46G	46.59	54.00	-7.41	3.10	3	Vertical	2	1.82	-
5510MHz	Pass	AV	5.5224G	99.27	Inf	-Inf	3.19	3	Vertical	2	1.82	-
5510MHz	Pass	PK	5.4628G	66.28	68.20	-1.92	3.10	3	Vertical	2	1.82	-
5510MHz	Pass	PK	5.5224G	107.84	Inf	-Inf	3.19	3	Vertical	2	1.82	-
5510MHz	Pass	AV	5.46G	48.75	54.00	-5.25	3.10	3	Horizontal	193	1.63	-
5510MHz	Pass	AV	5.5224G	102.58	Inf	-Inf	3.19	3	Horizontal	193	1.63	-
5510MHz	Pass	PK	5.462G	67.61	68.20	-0.59	3.10	3	Horizontal	193	1.63	-
5510MHz	Pass	PK	5.5216G	110.92	Inf	-Inf	3.19	3	Horizontal	193	1.63	-
5510MHz	Pass	AV	11.01682G	43.49	54.00	-10.51	13.95	3	Vertical	97	1.50	-
5510MHz	Pass	PK	11.02348G	56.16	74.00	-17.84	13.95	3	Vertical	97	1.50	-
5510MHz	Pass	AV	11.01364G	43.83	54.00	-10.17	13.95	3	Horizontal	89	1.50	-
5510MHz	Pass	PK	11.02132G	56.20	74.00	-17.80	13.95	3	Horizontal	89	1.50	-
5550MHz	Pass	AV	5.4576G	49.27	54.00	-4.73	3.09	3	Vertical	270	2.53	-
5550MHz	Pass	AV	5.5444G	105.26	Inf	-Inf	3.22	3	Vertical	270	2.53	-
5550MHz	Pass	PK	5.4644G	64.48	68.20	-3.72	3.11	3	Vertical	270	2.53	-
5550MHz	Pass	PK	5.5444G	113.78	Inf	-Inf	3.22	3	Vertical	270	2.53	-
5550MHz	Pass	AV	5.46G	51.81	54.00	-2.19	3.10	3	Horizontal	193	1.73	-
5550MHz	Pass	AV	5.5616G	107.14	Inf	-Inf	3.26	3	Horizontal	193	1.73	-
5550MHz	Pass	PK	5.4624G	67.54	68.20	-0.66	3.10	3	Horizontal	193	1.73	-
5550MHz	Pass	PK	5.5412G	115.62	Inf	-Inf	3.23	3	Horizontal	193	1.73	-
5550MHz	Pass	AV	11.08692G	44.94	54.00	-9.06	13.91	3	Vertical	260	2.00	-
5550MHz	Pass	PK	11.10414G	56.52	74.00	-17.48	13.90	3	Vertical	260	2.00	-
5550MHz	Pass	AV	11.08608G	43.69	54.00	-10.31	13.91	3	Horizontal	293	1.27	-
5550MHz	Pass	PK	11.09814G	55.50	74.00	-18.50	13.90	3	Horizontal	293	1.27	-
5670MHz	Pass	AV	5.6832G	104.18	Inf	-Inf	3.51	3	Vertical	279	2.93	-
5670MHz	Pass	PK	5.6826G	113.29	Inf	-Inf	3.51	3	Vertical	279	2.93	-
5670MHz	Pass	PK	5.7312G	68.08	68.20	-0.12	3.59	3	Vertical	279	2.93	-
5670MHz	Pass	AV	5.682G	106.70	Inf	-Inf	3.50	3	Horizontal	225	1.70	-
5670MHz	Pass	PK	5.6814G	114.82	Inf	-Inf	3.50	3	Horizontal	225	1.70	-
5670MHz	Pass	PK	5.7414G	67.83	68.20	-0.37	3.62	3	Horizontal	225	1.70	-
5670MHz	Pass	AV	11.34072G	44.11	54.00	-9.89	13.77	3	Vertical	341	1.90	-
5670MHz	Pass	PK	11.33862G	56.02	74.00	-17.98	13.77	3	Vertical	341	1.90	-
5670MHz	Pass	AV	11.33166G	42.96	54.00	-11.04	13.77	3	Horizontal	243	1.58	-
5670MHz	Pass	PK	11.35374G	55.18	74.00	-18.82	13.76	3	Horizontal	243	1.58	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4532G	50.57	54.00	-3.43	3.09	3	Vertical	283	2.91	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.704G	107.89	Inf	-Inf	3.55	3	Vertical	283	2.91	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4676G	61.32	68.20	-6.88	3.11	3	Vertical	283	2.91	-

Remark :

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Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.704G	116.17	Inf	-Inf	3.55	3	Vertical	283	2.91	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.8684G	61.12	68.20	-7.08	3.88	3	Vertical	283	2.91	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.4532G	53.16	54.00	-0.84	3.09	3	Horizontal	311	2.11	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.716G	111.20	Inf	-Inf	3.56	3	Horizontal	311	2.11	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.464G	64.86	68.20	-3.34	3.10	3	Horizontal	311	2.11	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.716G	119.76	Inf	-Inf	3.56	3	Horizontal	311	2.11	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.8564G	63.14	68.20	-5.06	3.85	3	Horizontal	311	2.11	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.42012G	49.55	54.00	-4.45	13.73	3	Vertical	333	2.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41982G	61.29	74.00	-12.71	13.73	3	Vertical	333	2.00	-
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.42168G	46.52	54.00	-7.48	13.73	3	Horizontal	261	1.50	-
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.42198G	58.91	74.00	-15.09	13.73	3	Horizontal	261	1.50	-
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5290MHz	Pass	AV	5.12G	46.63	54.00	-7.37	2.70	3	Vertical	304	2.61	-
5290MHz	Pass	AV	5.305G	96.44	Inf	-Inf	2.91	3	Vertical	304	2.61	-
5290MHz	Pass	AV	5.357G	48.97	54.00	-5.03	2.97	3	Vertical	304	2.61	-
5290MHz	Pass	PK	5.147G	56.55	74.00	-17.45	2.74	3	Vertical	304	2.61	-
5290MHz	Pass	PK	5.305G	104.79	Inf	-Inf	2.91	3	Vertical	304	2.61	-
5290MHz	Pass	PK	5.514G	57.45	68.20	-10.75	3.17	3	Vertical	304	2.61	-
5290MHz	Pass	AV	5.126G	48.78	54.00	-5.22	2.72	3	Horizontal	316	2.19	-
5290MHz	Pass	AV	5.317G	100.82	Inf	-Inf	2.93	3	Horizontal	316	2.19	-
5290MHz	Pass	AV	5.355G	53.04	54.00	-0.96	2.97	3	Horizontal	316	2.19	-
5290MHz	Pass	PK	5.149G	59.47	74.00	-14.53	2.74	3	Horizontal	316	2.19	-
5290MHz	Pass	PK	5.316G	108.31	Inf	-Inf	2.93	3	Horizontal	316	2.19	-
5290MHz	Pass	PK	5.533G	60.28	68.20	-7.92	3.21	3	Horizontal	316	2.19	-
5290MHz	Pass	AV	10.58012G	45.81	54.00	-8.19	13.37	3	Vertical	311	1.46	-
5290MHz	Pass	PK	10.5917G	55.55	74.00	-18.45	13.38	3	Vertical	311	1.46	-
5290MHz	Pass	AV	10.57992G	44.58	54.00	-9.42	13.37	3	Horizontal	234	1.50	-
5290MHz	Pass	PK	10.57984G	55.33	74.00	-18.67	13.37	3	Horizontal	234	1.50	-
5530MHz	Pass	AV	5.46G	48.55	54.00	-5.45	3.10	3	Vertical	26	1.50	-
5530MHz	Pass	AV	5.543G	96.81	Inf	-Inf	3.22	3	Vertical	26	1.50	-
5530MHz	Pass	PK	5.464G	65.78	68.20	-2.42	3.10	3	Vertical	26	1.50	-
5530MHz	Pass	PK	5.543G	104.01	Inf	-Inf	3.22	3	Vertical	26	1.50	-
5530MHz	Pass	PK	5.776G	57.42	68.20	-10.78	3.69	3	Vertical	26	1.50	-
5530MHz	Pass	AV	5.458G	51.32	54.00	-2.68	3.09	3	Horizontal	314	1.56	-
5530MHz	Pass	AV	5.558G	101.72	Inf	-Inf	3.25	3	Horizontal	314	1.56	-
5530MHz	Pass	PK	5.466G	67.81	68.20	-0.39	3.11	3	Horizontal	314	1.56	-
5530MHz	Pass	PK	5.518G	109.27	Inf	-Inf	3.18	3	Horizontal	314	1.56	-
5530MHz	Pass	PK	5.756G	59.10	68.20	-9.10	3.65	3	Horizontal	314	1.56	-
5530MHz	Pass	AV	11.07458G	44.88	54.00	-9.12	13.92	3	Vertical	328	1.50	-
5530MHz	Pass	PK	11.05094G	55.55	74.00	-18.45	13.93	3	Vertical	328	1.50	-
5530MHz	Pass	AV	11.07098G	45.11	54.00	-8.89	13.92	3	Horizontal	318	1.44	-
5530MHz	Pass	PK	11.07494G	55.72	74.00	-18.28	13.92	3	Horizontal	318	1.44	-
5610MHz	Pass	AV	5.4552G	49.23	54.00	-4.77	3.09	3	Vertical	306	1.48	-
5610MHz	Pass	AV	5.5836G	100.20	Inf	-Inf	3.31	3	Vertical	306	1.48	-
5610MHz	Pass	PK	5.4648G	60.05	68.20	-8.15	3.11	3	Vertical	306	1.48	-
5610MHz	Pass	PK	5.5824G	107.48	Inf	-Inf	3.31	3	Vertical	306	1.48	-
5610MHz	Pass	PK	5.742G	61.35	68.20	-6.85	3.62	3	Vertical	306	1.48	-
5610MHz	Pass	AV	5.46G	51.94	54.00	-2.06	3.10	3	Horizontal	307	1.65	-
5610MHz	Pass	AV	5.637G	104.70	Inf	-Inf	3.41	3	Horizontal	307	1.65	-

Remark :

Page No. : D7 of D104

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)





Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5610MHz	Pass	PK	5.462G	60.58	68.20	-7.62	3.10	3	Horizontal	307	1.65	-
5610MHz	Pass	PK	5.637G	113.45	Inf	-Inf	3.41	3	Horizontal	307	1.65	-
5610MHz	Pass	PK	5.735G	67.43	68.20	-0.77	3.60	3	Horizontal	307	1.65	-
5610MHz	Pass	AV	11.21772G	44.28	54.00	-9.72	13.84	3	Vertical	75	1.50	-
5610MHz	Pass	PK	11.21928G	55.40	74.00	-18.60	13.84	3	Vertical	75	1.50	-
5610MHz	Pass	AV	11.21868G	44.56	54.00	-9.44	13.84	3	Horizontal	63	1.50	-
5610MHz	Pass	PK	11.2194G	55.72	74.00	-18.28	13.84	3	Horizontal	63	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4068G	50.17	54.00	-3.83	3.02	3	Vertical	30	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6624G	102.78	Inf	-Inf	3.46	3	Vertical	30	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4632G	59.50	68.20	-8.70	3.10	3	Vertical	30	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6612G	110.41	Inf	-Inf	3.46	3	Vertical	30	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8616G	60.11	68.20	-8.09	3.86	3	Vertical	30	1.50	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4572G	53.71	54.00	-0.29	3.09	3	Horizontal	315	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6768G	107.19	Inf	-Inf	3.49	3	Horizontal	315	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4656G	63.32	68.20	-4.88	3.11	3	Horizontal	315	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6756G	114.86	Inf	-Inf	3.49	3	Horizontal	315	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.858G	65.47	68.20	-2.73	3.85	3	Horizontal	315	1.47	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.39158G	45.44	54.00	-8.56	13.74	3	Vertical	329	1.37	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.3896G	55.57	74.00	-18.43	13.74	3	Vertical	329	1.37	-
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.38084G	44.13	54.00	-9.87	13.74	3	Horizontal	191	1.86	-
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.38096G	54.80	74.00	-19.20	13.74	3	Horizontal	191	1.86	-

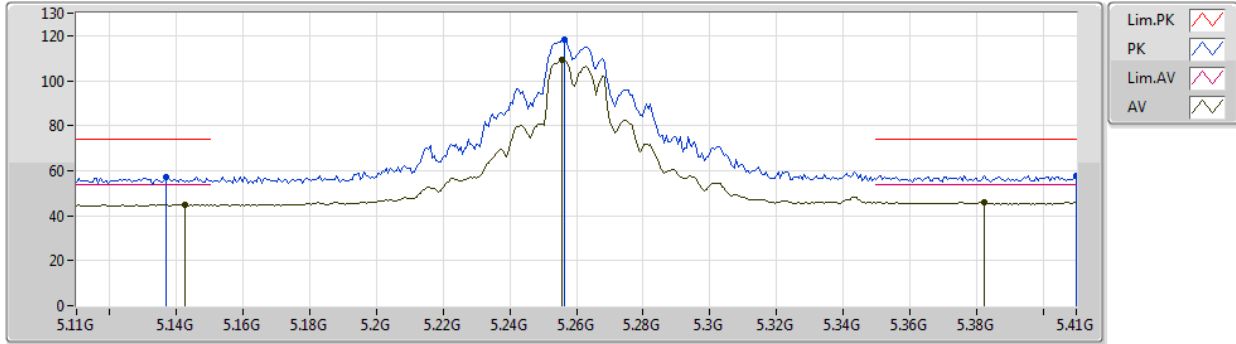
Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5260MHz\_TX

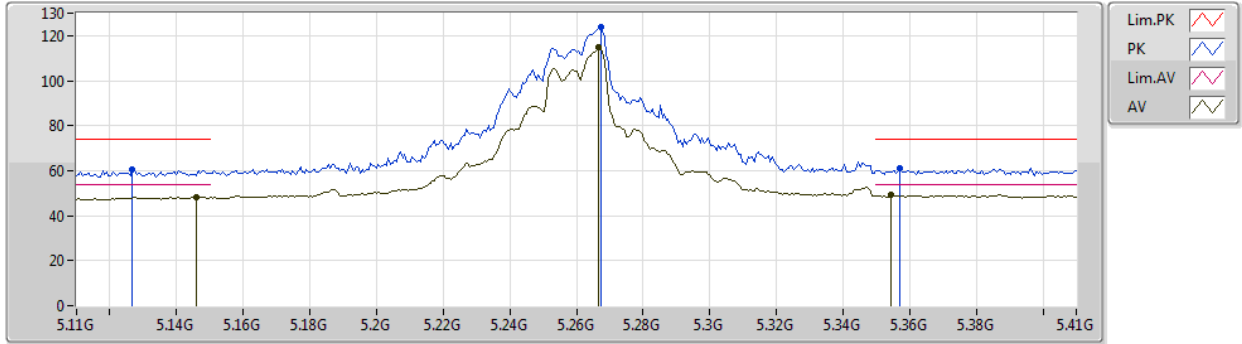


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1424G	44.91	54.00	-9.09	2.74	3	Vertical	287	2.97	-	42.17	31.59	5.42	34.27
AV	5.2558G	109.27	Inf	-Inf	2.86	3	Vertical	287	2.97	-	106.41	31.65	5.50	34.29
AV	5.3824G	46.04	54.00	-7.96	3.01	3	Vertical	287	2.97	-	43.03	31.73	5.59	34.31
PK	5.137G	57.39	74.00	-16.61	2.73	3	Vertical	287	2.97	-	54.66	31.58	5.42	34.27
PK	5.2564G	118.11	Inf	-Inf	2.86	3	Vertical	287	2.97	-	115.25	31.65	5.50	34.29
PK	5.41G	57.94	74.00	-16.06	3.04	3	Vertical	287	2.97	-	54.90	31.75	5.61	34.32

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5260MHz\_TX



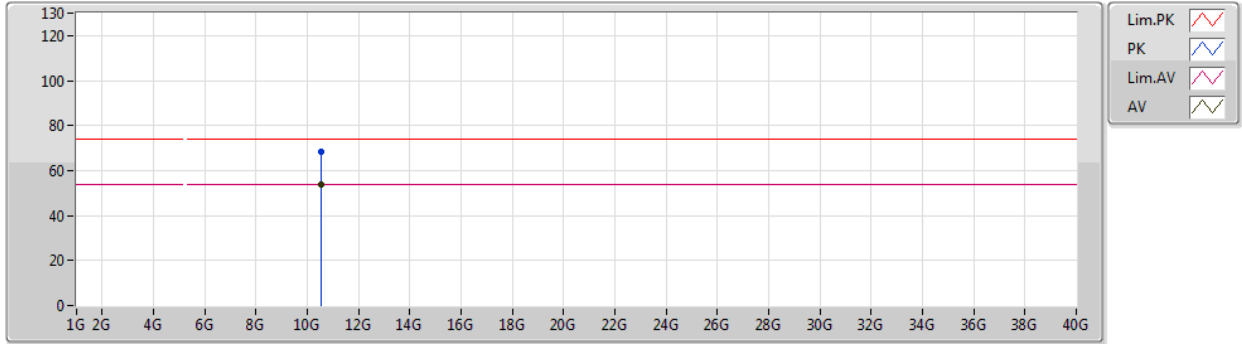
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AV	5.146G	48.19	54.00	-5.81	2.74	3	Horizontal	316	2.18	-	45.45	31.59	5.42	34.27
AV	5.2666G	114.65	Inf	-Inf	2.88	3	Horizontal	316	2.18	-	111.77	31.66	5.51	34.29
AV	5.3542G	49.31	54.00	-4.69	2.97	3	Horizontal	316	2.18	-	46.34	31.71	5.57	34.31
PK	5.1268G	60.62	74.00	-13.38	2.72	3	Horizontal	316	2.18	-	57.90	31.58	5.41	34.27
PK	5.2672G	123.92	Inf	-Inf	2.88	3	Horizontal	316	2.18	-	121.04	31.66	5.51	34.29
PK	5.3572G	61.13	74.00	-12.87	2.97	3	Horizontal	316	2.18	-	58.16	31.71	5.57	34.31



802.11a\_Nss1,(6Mbps)\_4TX

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5260MHz\_TX



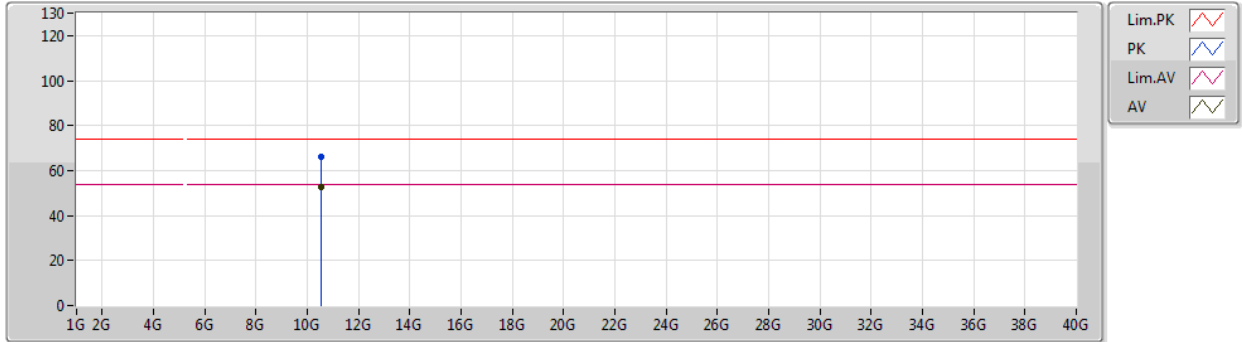
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AV	10.52006G	53.94	54.00	-0.06	13.29	3	Vertical	269	1.77	-	40.65	39.82	7.98	34.51
PK	10.52012G	68.14	74.00	-5.86	13.29	3	Vertical	269	1.77	-	54.85	39.82	7.98	34.51



802.11a\_Nss1,(6Mbps)\_4TX

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5260MHz\_TX

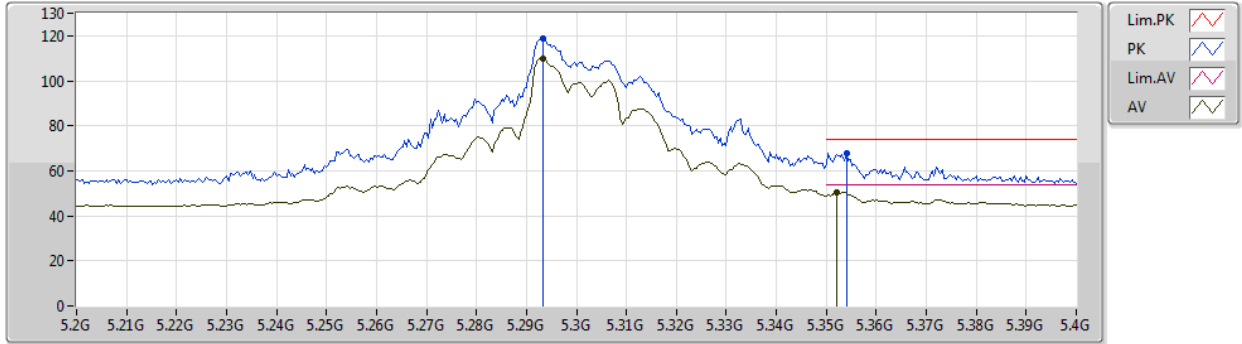


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AV	10.5203G	52.72	54.00	-1.28	13.29	3	Horizontal	298	1.45	-	39.43	39.82	7.98	34.51
PK	10.51982G	66.21	74.00	-7.79	13.29	3	Horizontal	298	1.45	-	52.92	39.82	7.98	34.51

802.11a\_Nss1,(6Mbps)\_4TX

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5300MHz\_TX

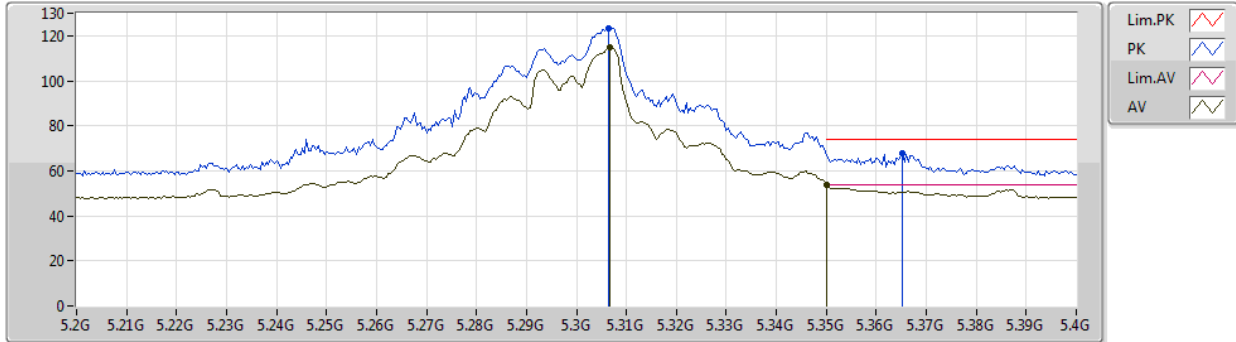


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.2932G	109.79	Inf	-Inf	2.91	3	Vertical	306	2.16	-	106.88	31.68	5.53	34.30
AV	5.352G	50.53	54.00	-3.47	2.97	3	Vertical	306	2.16	-	47.56	31.71	5.57	34.31
PK	5.2932G	118.78	Inf	-Inf	2.91	3	Vertical	306	2.16	-	115.87	31.68	5.53	34.30
PK	5.354G	67.77	74.00	-6.23	2.97	3	Vertical	306	2.16	-	64.80	31.71	5.57	34.31

802.11a\_Nss1,(6Mbps)\_4TX

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5300MHz\_TX



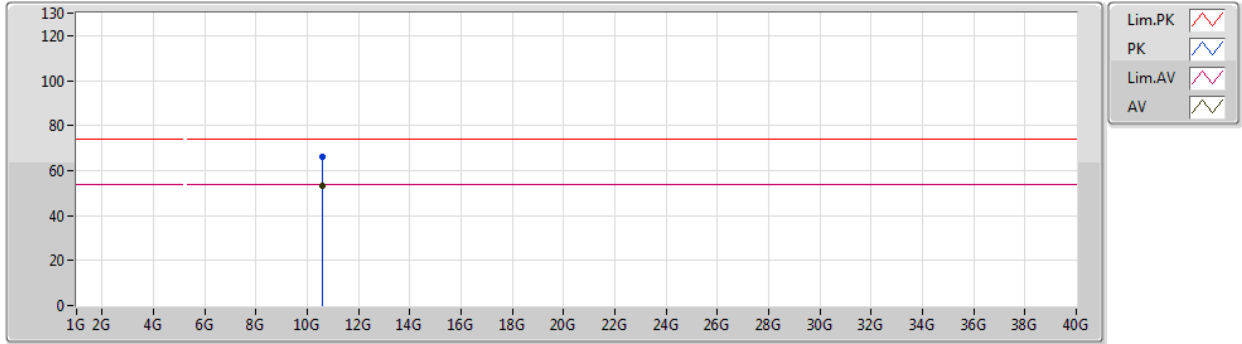
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AV	5.3068G	114.66	Inf	-Inf	2.91	3	Horizontal	307	2.21	-	111.75	31.68	5.53	34.30
AV	5.35G	53.60	54.00	-0.40	2.96	3	Horizontal	307	2.21	-	50.64	31.71	5.56	34.31
PK	5.3064G	123.23	Inf	-Inf	2.91	3	Horizontal	307	2.21	-	120.32	31.68	5.53	34.30
PK	5.3652G	67.86	74.00	-6.14	2.99	3	Horizontal	307	2.21	-	64.87	31.72	5.58	34.31



802.11a\_Nss1,(6Mbps)\_4TX

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5300MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.60624G	53.40	54.00	-0.60	13.41	3	Vertical	290	2.10	-	39.99	39.91	7.99	34.49
PK	10.60786G	65.86	74.00	-8.14	13.41	3	Vertical	290	2.10	-	52.45	39.91	7.99	34.49

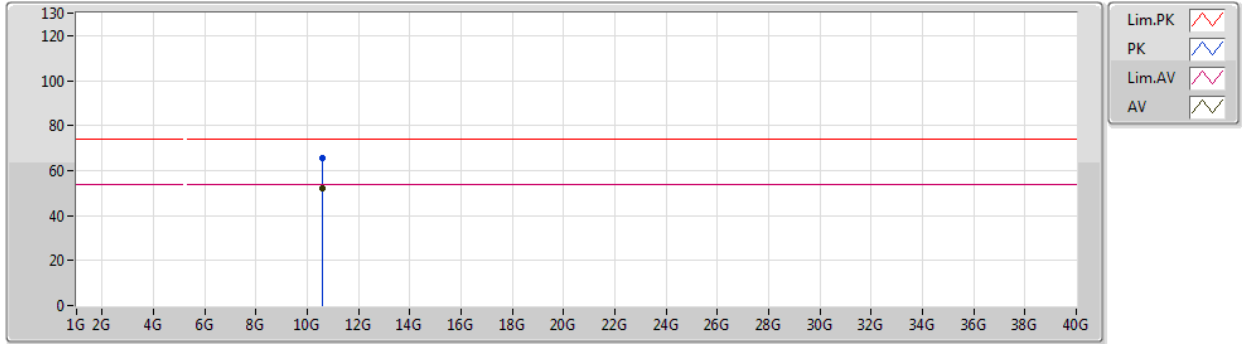




802.11a\_Nss1,(6Mbps)\_4TX

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5300MHz\_TX

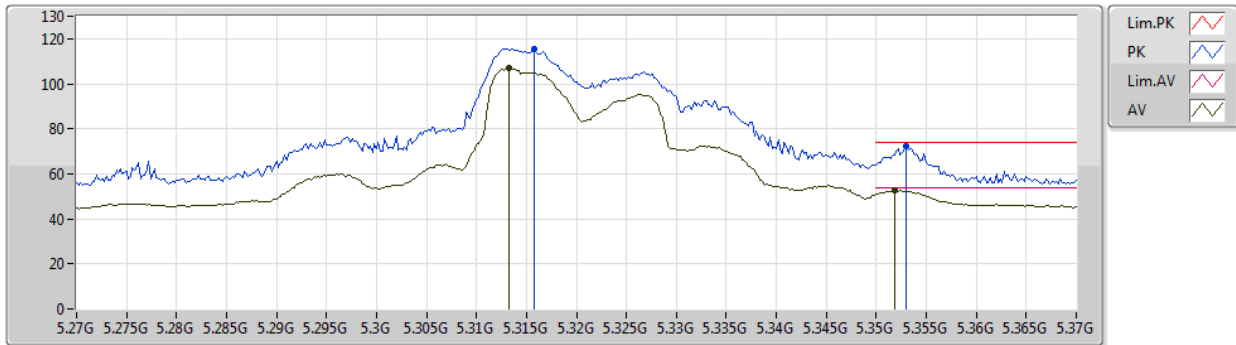


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.6018G	52.26	54.00	-1.74	13.40	3	Horizontal	273	2.25	-	38.86	39.90	7.99	34.49
PK	10.60072G	65.38	74.00	-8.62	13.40	3	Horizontal	273	2.25	-	51.98	39.90	7.99	34.49

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5320MHz\_TX



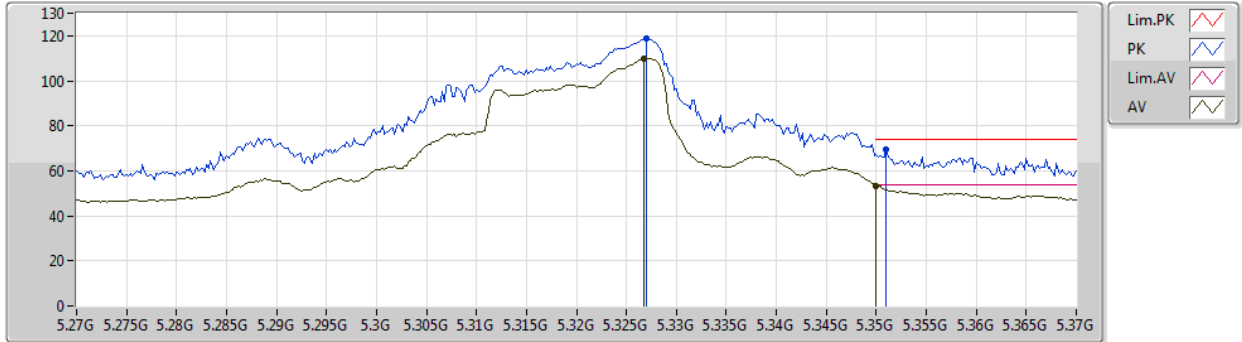
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AV	5.3132G	106.94	Inf	-Inf	2.93	3	Vertical	12	1.54	-	104.01	31.69	5.54	34.30
AV	5.3518G	52.71	54.00	-1.29	2.97	3	Vertical	12	1.54	-	49.74	31.71	5.57	34.31
PK	5.3158G	115.61	Inf	-Inf	2.93	3	Vertical	12	1.54	-	112.68	31.69	5.54	34.30
PK	5.353G	72.44	74.00	-1.56	2.97	3	Vertical	12	1.54	-	69.47	31.71	5.57	34.31



802.11a\_Nss1,(6Mbps)\_4TX

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5320MHz\_TX



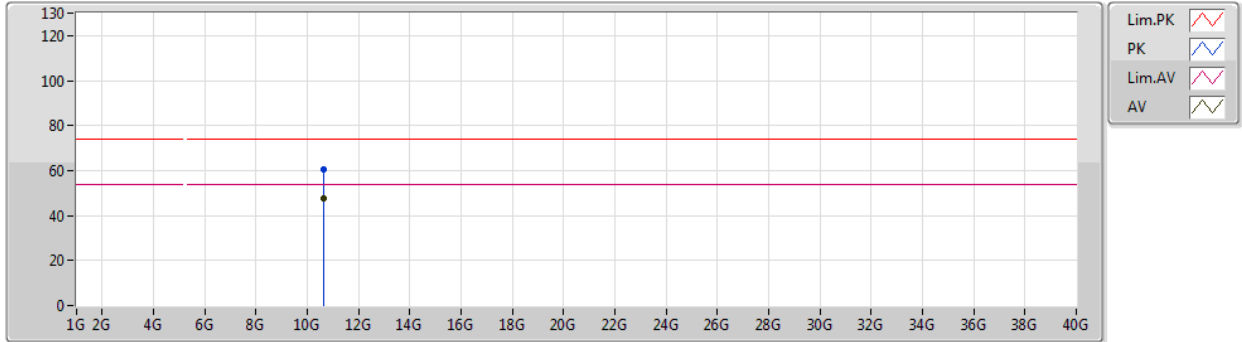
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AV	5.3268G	110.10	Inf	-Inf	2.95	3	Horizontal	302	1.58	-	107.15	31.70	5.55	34.30
AV	5.35G	53.31	54.00	-0.69	2.96	3	Horizontal	302	1.58	-	50.35	31.71	5.56	34.31
PK	5.327G	118.52	Inf	-Inf	2.95	3	Horizontal	302	1.58	-	115.57	31.70	5.55	34.30
PK	5.351G	69.62	74.00	-4.38	2.97	3	Horizontal	302	1.58	-	66.65	31.71	5.57	34.31



802.11a\_Nss1,(6Mbps)\_4TX

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5320MHz\_TX



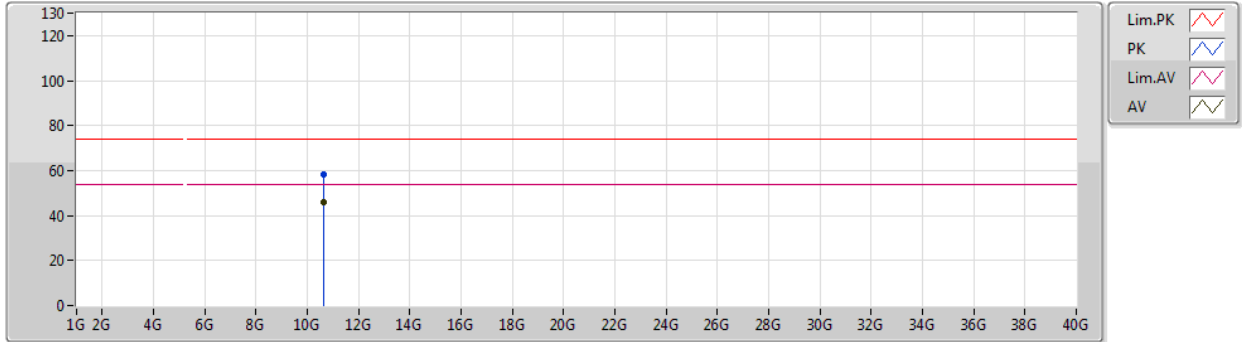
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AV	10.63376G	47.71	54.00	-6.29	13.44	3	Vertical	298	1.70	-	34.27	39.93	7.99	34.48
PK	10.6334G	60.24	74.00	-13.76	13.44	3	Vertical	298	1.70	-	46.80	39.93	7.99	34.48



802.11a\_Nss1,(6Mbps)\_4TX

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5320MHz\_TX

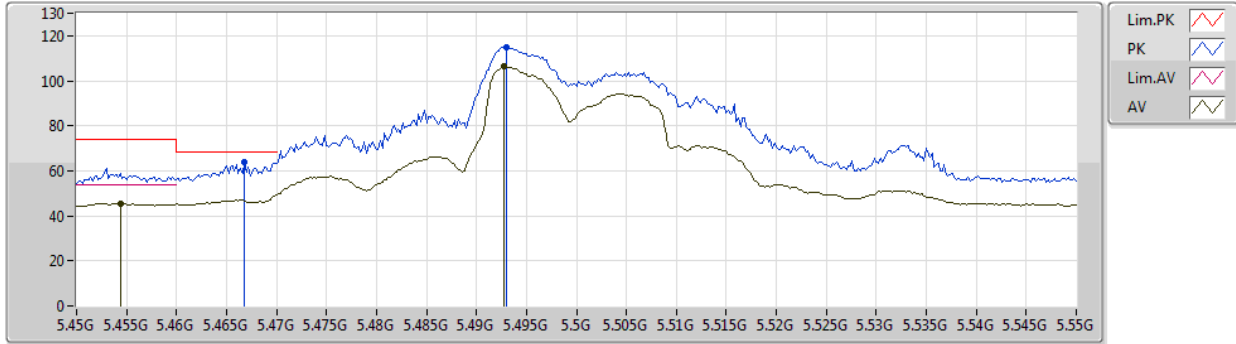


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.63616G	45.80	54.00	-8.20	13.45	3	Horizontal	238	1.56	-	32.35	39.94	7.99	34.48
PK	10.63616G	58.24	74.00	-15.76	13.45	3	Horizontal	238	1.56	-	44.79	39.94	7.99	34.48

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5500MHz\_TX



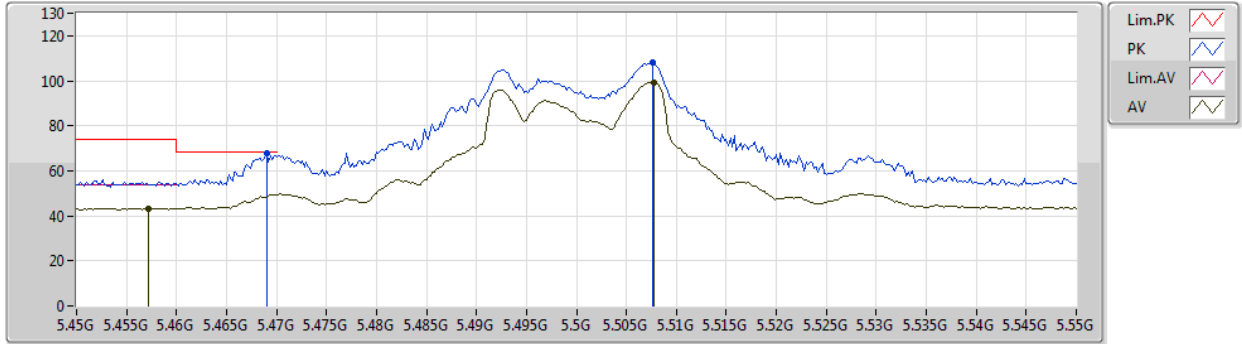
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AV	5.4544G	45.61	54.00	-8.39	3.09	3	Vertical	25	1.46	-	42.52	31.77	5.64	34.32
AV	5.4928G	106.32	Inf	-Inf	3.13	3	Vertical	25	1.46	-	103.19	31.80	5.66	34.33
PK	5.4668G	63.97	68.20	-4.23	3.11	3	Vertical	25	1.46	-	60.86	31.78	5.65	34.32
PK	5.493G	115.08	Inf	-Inf	3.14	3	Vertical	25	1.46	-	111.94	31.80	5.67	34.33



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5500MHz\_TX



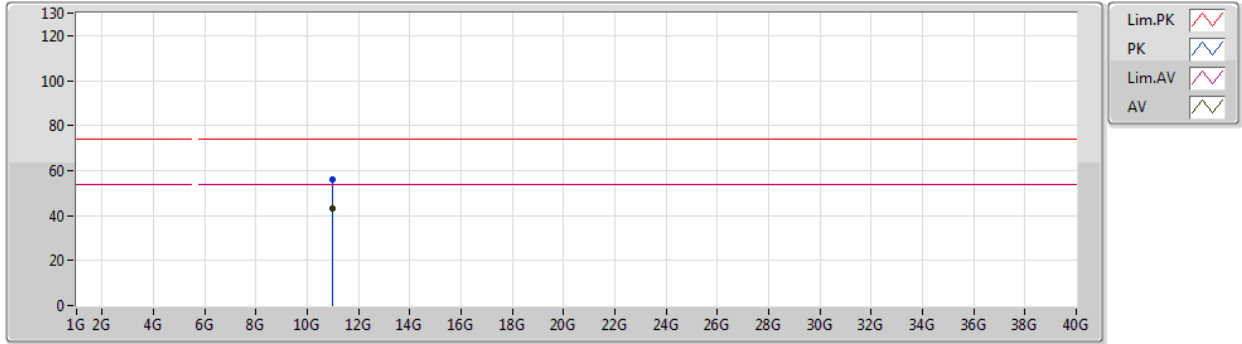
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AV	5.4572G	43.37	54.00	-10.63	3.09	3	Horizontal	64	2.02	-	40.28	31.77	5.64	34.32
AV	5.5078G	99.40	Inf	-Inf	3.16	3	Horizontal	64	2.02	-	96.24	31.81	5.68	34.33
PK	5.469G	67.64	68.20	-0.56	3.10	3	Horizontal	64	2.02	-	64.54	31.78	5.65	34.33
PK	5.5076G	108.09	Inf	-Inf	3.16	3	Horizontal	64	2.02	-	104.93	31.81	5.68	34.33



802.11a\_Nss1,(6Mbps)\_4TX

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5500MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.00186G	43.37	54.00	-10.63	13.96	3	Vertical	270	1.66	-	29.41	40.30	8.02	34.36
PK	11.00066G	55.79	74.00	-18.21	13.96	3	Vertical	270	1.66	-	41.83	40.30	8.02	34.36

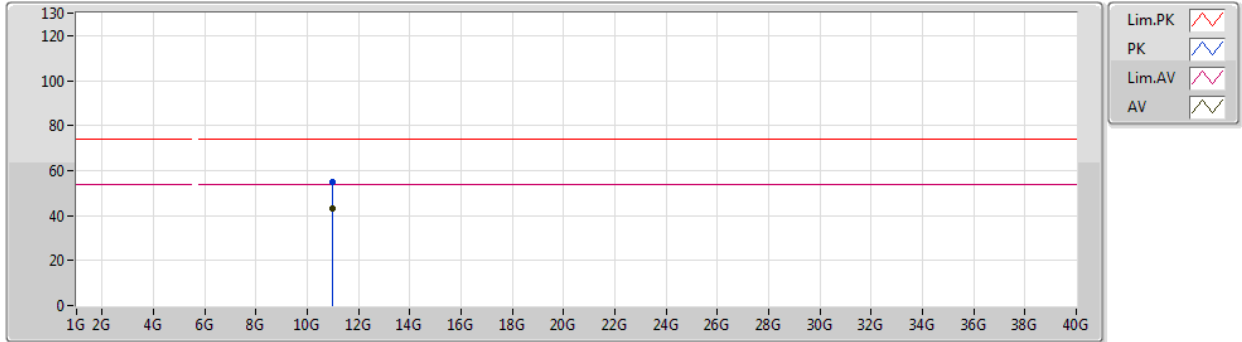




802.11a\_Nss1,(6Mbps)\_4TX

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5500MHz\_TX

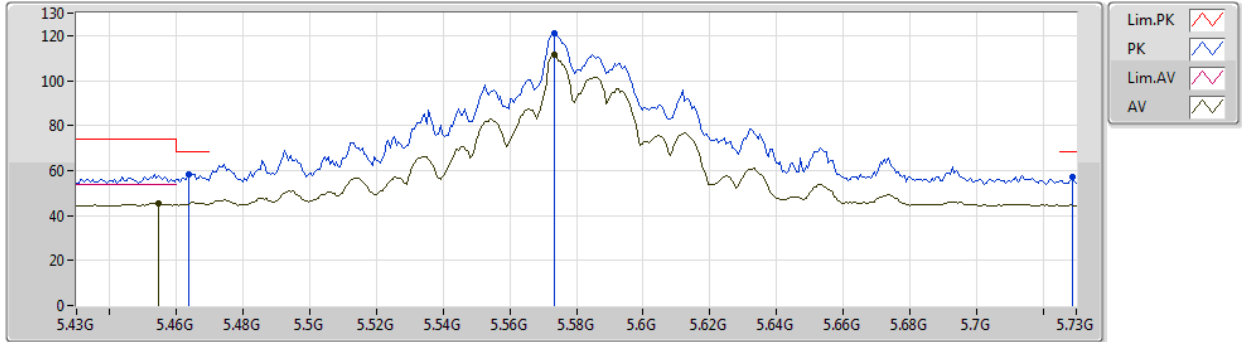


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.99772G	43.28	54.00	-10.72	13.95	3	Horizontal	235	1.70	-	29.33	40.30	8.01	34.36
PK	11.00504G	55.12	74.00	-18.88	13.96	3	Horizontal	235	1.70	-	41.16	40.30	8.02	34.36

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5580MHz\_TX

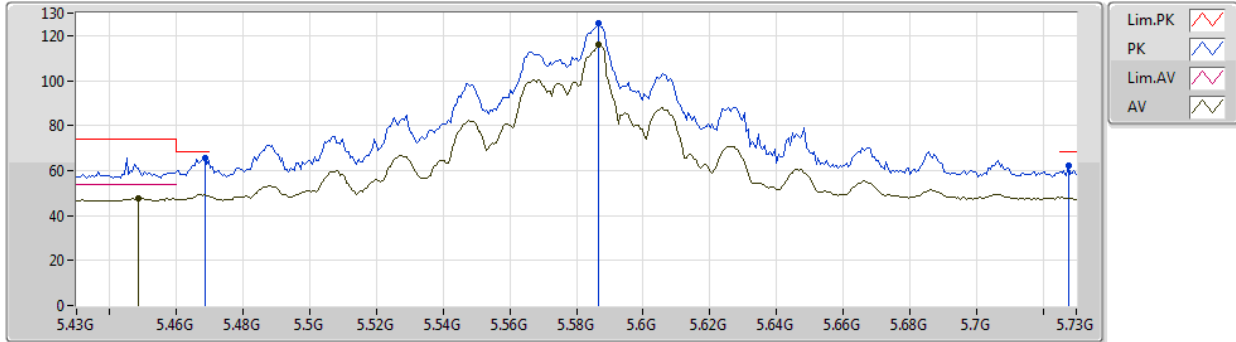


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4546G	45.30	54.00	-8.70	3.09	3	Vertical	14	1.50	-	42.21	31.77	5.64	34.32
AV	5.5734G	111.69	Inf	-Inf	3.28	3	Vertical	14	1.50	-	108.41	31.90	5.72	34.34
PK	5.4636G	58.21	68.20	-9.99	3.10	3	Vertical	14	1.50	-	55.11	31.78	5.64	34.32
PK	5.5734G	120.86	Inf	-Inf	3.28	3	Vertical	14	1.50	-	117.58	31.90	5.72	34.34
PK	5.7288G	57.21	68.20	-10.99	3.59	3	Vertical	14	1.50	-	53.62	32.12	5.83	34.36

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5580MHz\_TX



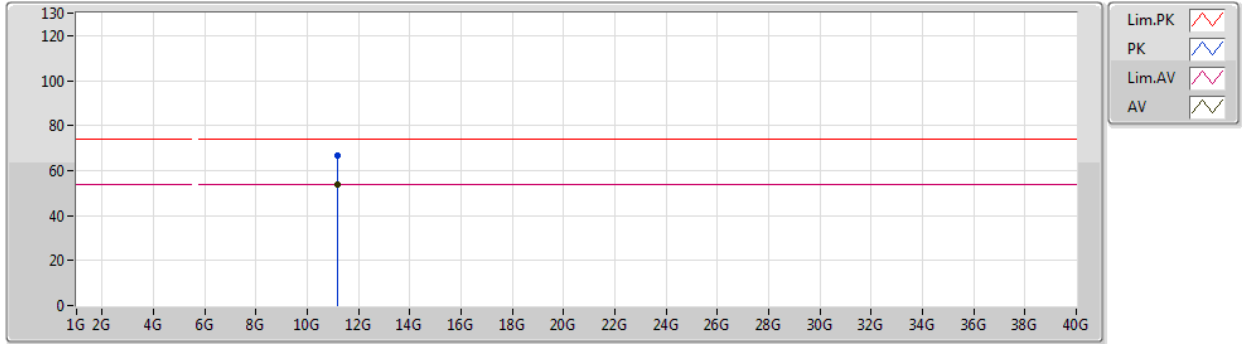
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AV	5.4486G	47.55	54.00	-6.45	3.08	3	Horizontal	307	1.60	-	44.47	31.77	5.63	34.32
AV	5.5866G	115.85	Inf	-Inf	3.31	3	Horizontal	307	1.60	-	112.54	31.92	5.73	34.34
PK	5.4684G	65.30	68.20	-2.90	3.11	3	Horizontal	307	1.60	-	62.19	31.78	5.65	34.32
PK	5.5866G	125.46	Inf	-Inf	3.31	3	Horizontal	307	1.60	-	122.15	31.92	5.73	34.34
PK	5.7276G	62.08	68.20	-6.12	3.59	3	Horizontal	307	1.60	-	58.49	32.12	5.83	34.36



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5580MHz\_TX



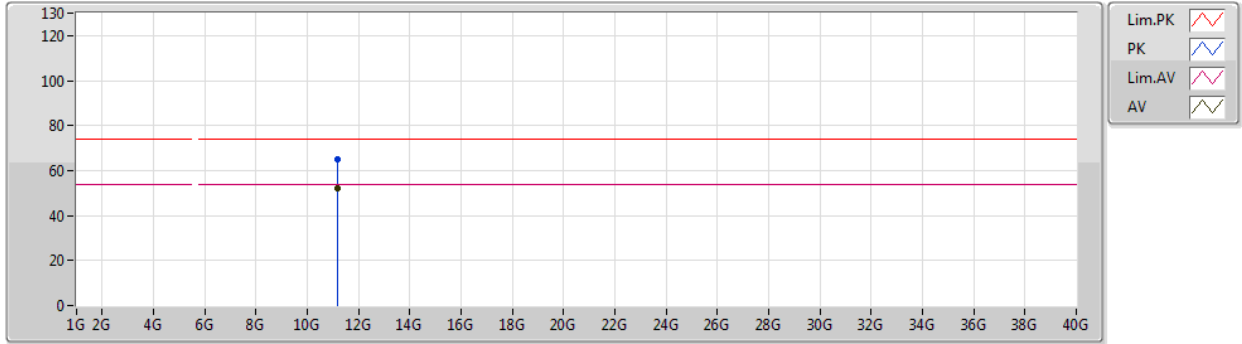
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AV	11.15778G	53.83	54.00	-0.17	13.88	3	Vertical	290	1.72	-	39.95	40.21	8.03	34.36
PK	11.15724G	66.74	74.00	-7.26	13.88	3	Vertical	290	1.72	-	52.86	40.21	8.03	34.36



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5580MHz\_TX



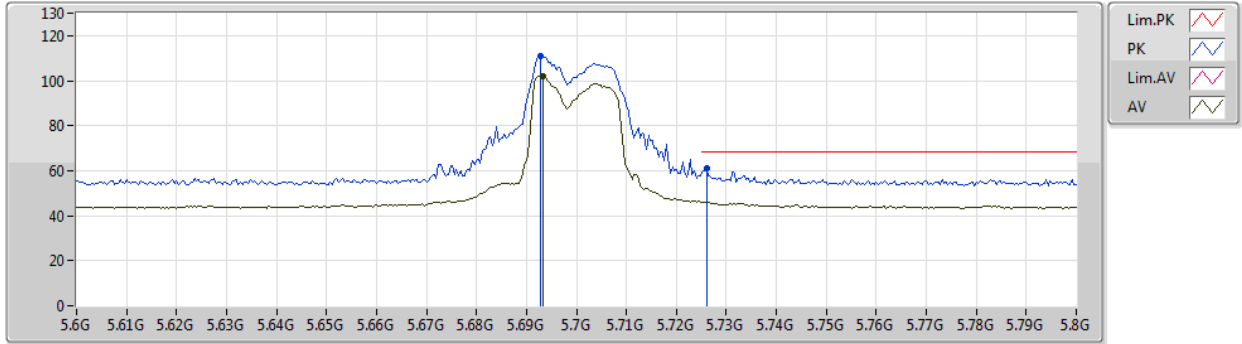
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AV	11.16132G	52.16	54.00	-1.84	13.87	3	Horizontal	259	2.15	-	38.29	40.20	8.03	34.36
PK	11.16114G	65.18	74.00	-8.82	13.87	3	Horizontal	259	2.15	-	51.31	40.20	8.03	34.36



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5700MHz\_TX



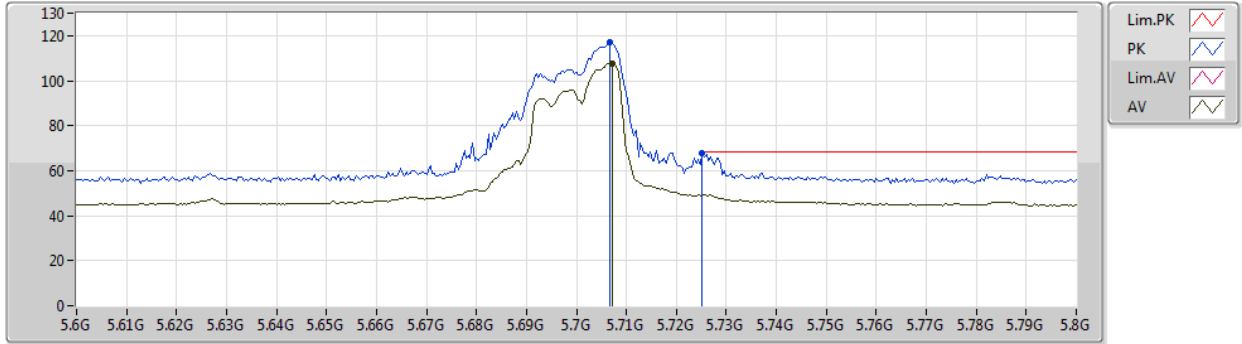
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AV	5.6932G	102.23	Inf	-Inf	3.53	3	Vertical	302	1.44	-	98.70	32.07	5.81	34.35
PK	5.6928G	111.11	Inf	-Inf	3.52	3	Vertical	302	1.44	-	107.59	32.07	5.80	34.35
PK	5.726G	61.13	68.20	-7.07	3.59	3	Vertical	302	1.44	-	57.54	32.12	5.83	34.36



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5700MHz\_TX



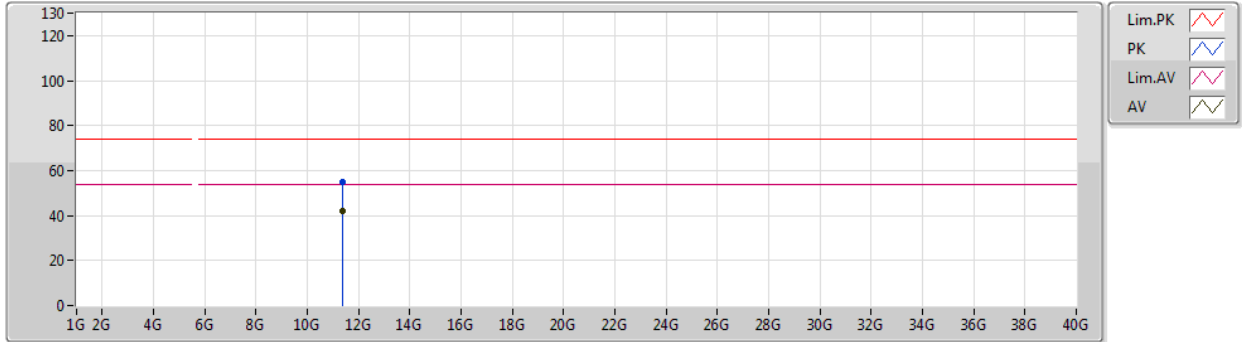
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AV	5.7072G	107.84	Inf	-Inf	3.56	3	Horizontal	309	1.62	-	104.28	32.09	5.82	34.35
PK	5.7068G	117.15	Inf	-Inf	3.55	3	Horizontal	309	1.62	-	113.60	32.09	5.81	34.35
PK	5.7252G	67.59	68.20	-0.61	3.59	3	Horizontal	309	1.62	-	64.00	32.12	5.83	34.36



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5700MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.39376G	41.96	54.00	-12.04	13.73	3	Vertical	331	2.06	-	28.23	40.06	8.04	34.37
PK	11.39856G	54.82	74.00	-19.18	13.73	3	Vertical	331	2.06	-	41.09	40.06	8.04	34.37

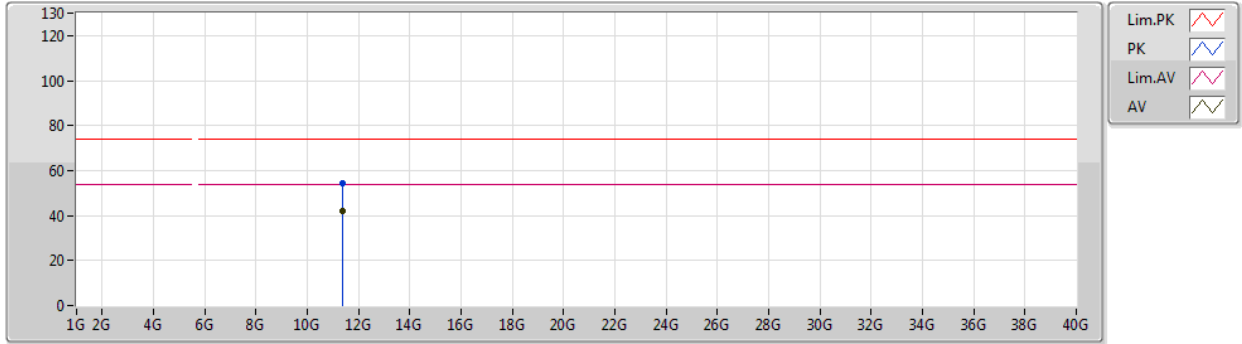




802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5700MHz\_TX

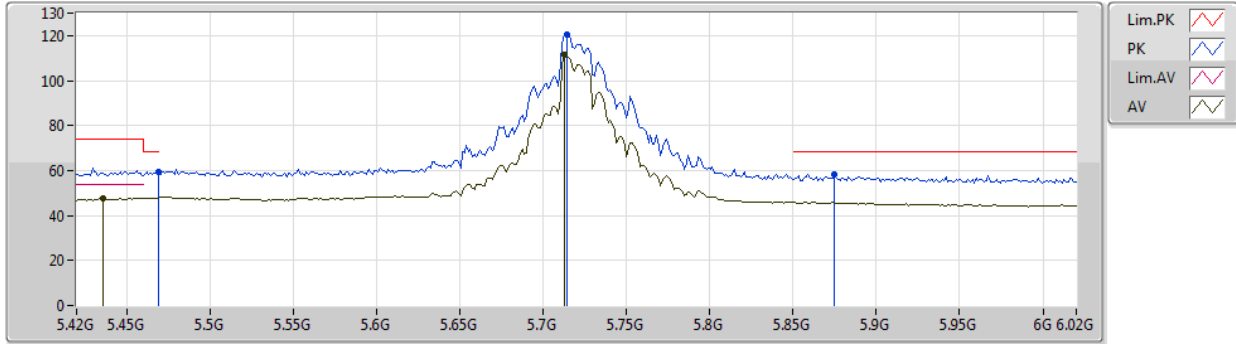


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.40144G	42.00	54.00	-12.00	13.74	3	Horizontal	259	2.14	-	28.26	40.06	8.05	34.37
PK	11.391G	54.19	74.00	-19.81	13.74	3	Horizontal	259	2.14	-	40.45	40.07	8.04	34.37

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5720MHz Straddle 5.47-5.725GHz\_TX

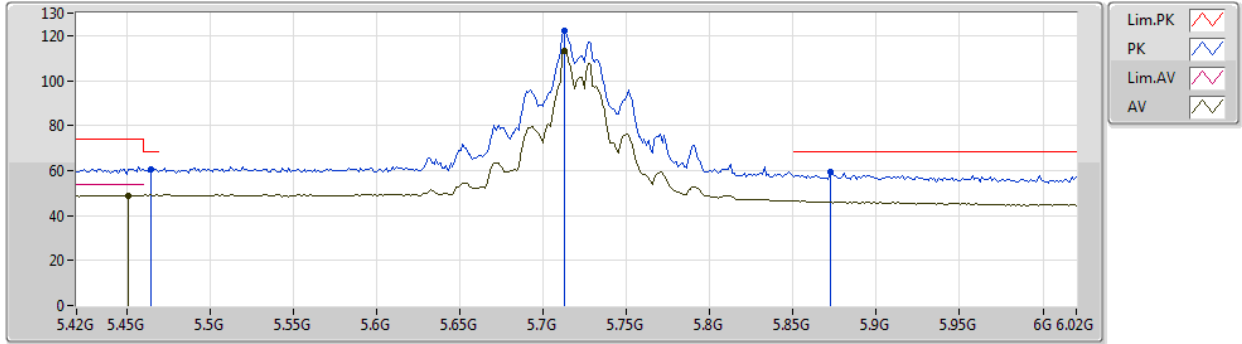


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4356G	47.63	54.00	-6.37	3.06	3	Vertical	258	2.76	-	44.57	31.76	5.62	34.32
AV	5.7128G	111.56	Inf	-Inf	3.56	3	Vertical	258	2.76	-	108.00	32.10	5.82	34.36
PK	5.4692G	59.55	68.20	-8.65	3.10	3	Vertical	258	2.76	-	56.45	31.78	5.65	34.33
PK	5.714G	120.72	Inf	-Inf	3.56	3	Vertical	258	2.76	-	117.16	32.10	5.82	34.36
PK	5.8748G	58.15	68.20	-10.05	3.88	3	Vertical	258	2.76	-	54.27	32.32	5.93	34.37

802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5720MHz Straddle 5.47-5.725GHz\_TX



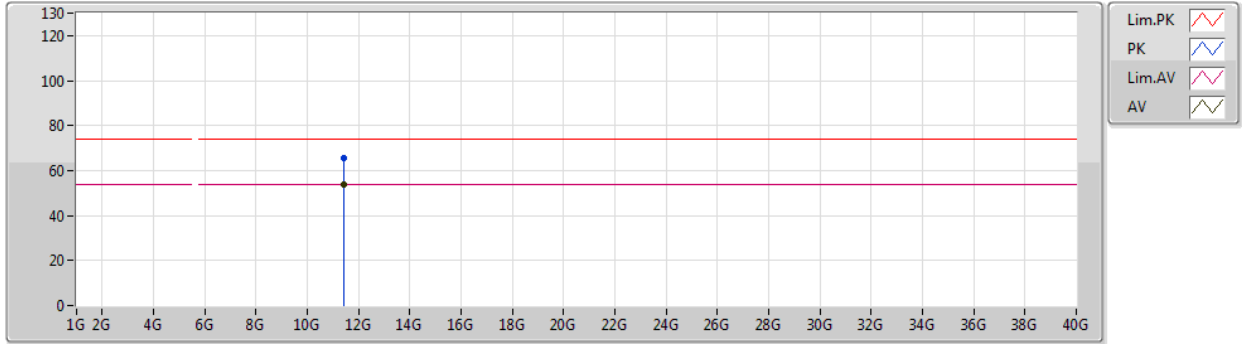
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AV	5.4512G	49.01	54.00	-4.99	3.09	3	Horizontal	196	1.60	-	45.92	31.77	5.64	34.32
AV	5.7128G	112.99	Inf	-Inf	3.56	3	Horizontal	196	1.60	-	109.43	32.10	5.82	34.36
PK	5.4644G	60.47	68.20	-7.73	3.11	3	Horizontal	196	1.60	-	57.36	31.78	5.65	34.32
PK	5.7128G	122.33	Inf	-Inf	3.56	3	Horizontal	196	1.60	-	118.77	32.10	5.82	34.36
PK	5.8724G	59.43	68.20	-8.77	3.88	3	Horizontal	196	1.60	-	55.55	32.32	5.93	34.37



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5720MHz\_TX



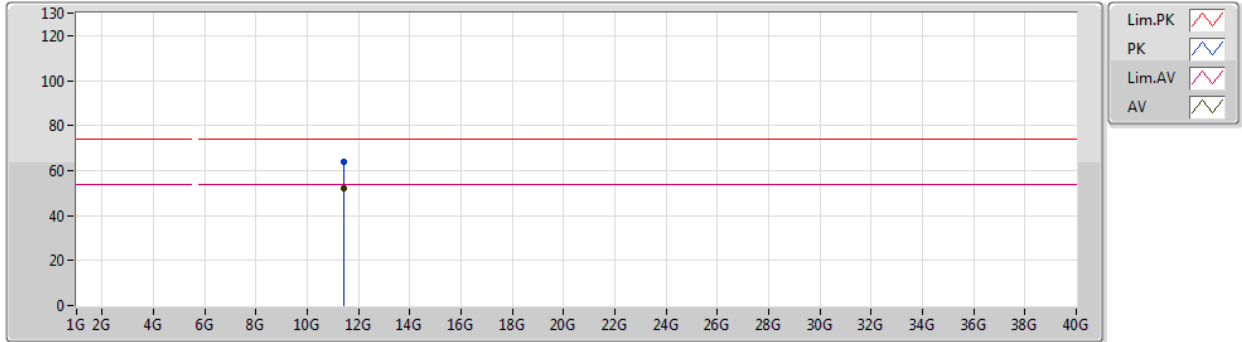
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AV	11.43994G	53.60	54.00	-0.40	13.72	3	Vertical	307	1.95	-	39.88	40.04	8.05	34.37
PK	11.43988G	65.70	74.00	-8.30	13.72	3	Vertical	307	1.95	-	51.98	40.04	8.05	34.37



802.11a\_Nss1,(6Mbps)\_4TX

06/03/2019

5720MHz\_TX

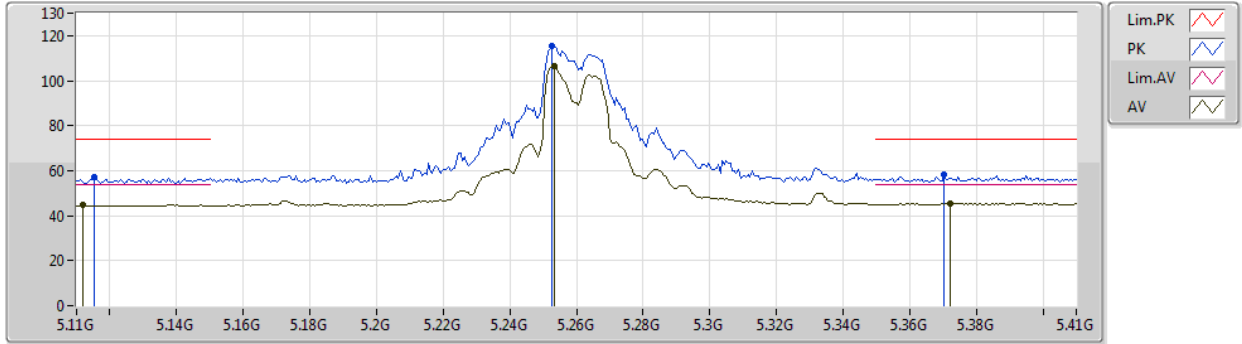


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.44132G	51.88	54.00	-2.12	13.72	3	Horizontal	233	1.36	-	38.16	40.04	8.05	34.37
PK	11.44066G	64.07	74.00	-9.93	13.72	3	Horizontal	233	1.36	-	50.35	40.04	8.05	34.37

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5260MHz\_TX

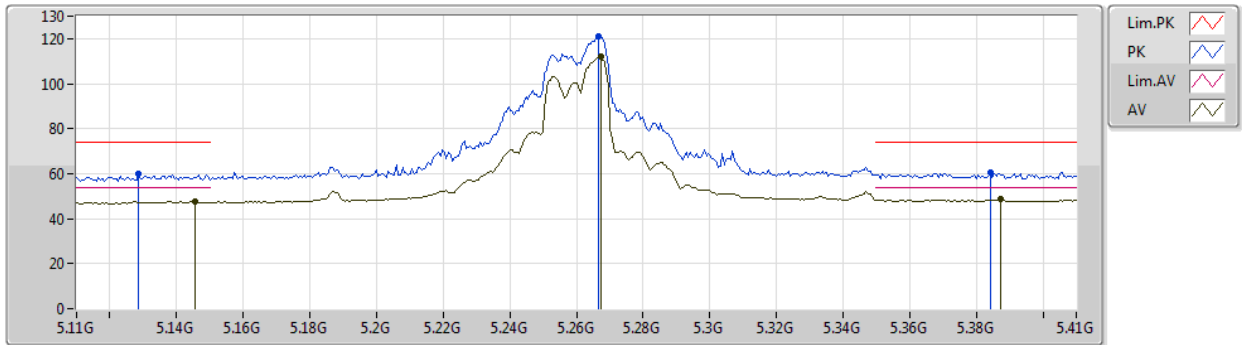


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1118G	44.74	54.00	-9.26	2.70	3	Vertical	289	1.96	-	42.04	31.57	5.40	34.27
AV	5.2534G	106.43	Inf	-Inf	2.86	3	Vertical	289	1.96	-	103.57	31.65	5.50	34.29
AV	5.3722G	45.56	54.00	-8.44	2.99	3	Vertical	289	1.96	-	42.57	31.72	5.58	34.31
PK	5.1154G	57.09	74.00	-16.91	2.70	3	Vertical	289	1.96	-	54.39	31.57	5.40	34.27
PK	5.2528G	115.30	Inf	-Inf	2.86	3	Vertical	289	1.96	-	112.44	31.65	5.50	34.29
PK	5.3704G	58.32	74.00	-15.68	2.99	3	Vertical	289	1.96	-	55.33	31.72	5.58	34.31

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5260MHz\_TX



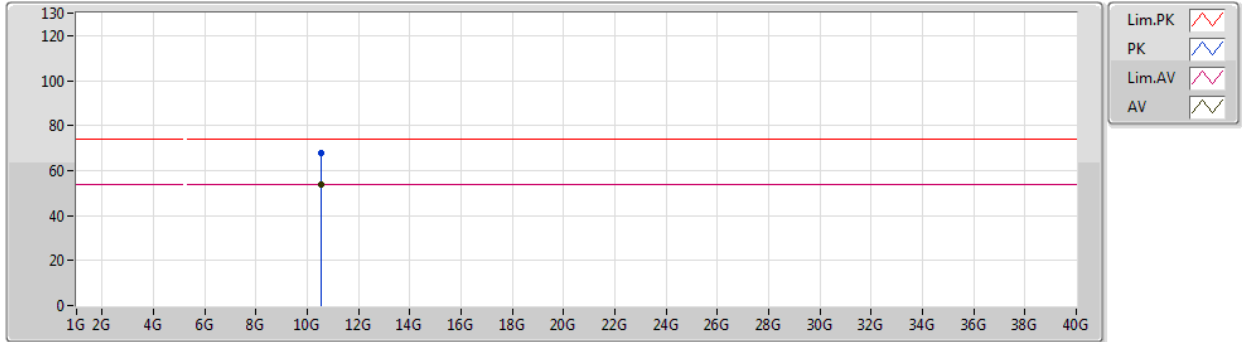
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1454G	47.47	54.00	-6.53	2.74	3	Horizontal	297	2.22	-	44.73	31.59	5.42	34.27
AV	5.2672G	112.34	Inf	-Inf	2.88	3	Horizontal	297	2.22	-	109.46	31.66	5.51	34.29
AV	5.3872G	48.52	54.00	-5.48	3.01	3	Horizontal	297	2.22	-	45.51	31.73	5.59	34.31
PK	5.1286G	59.89	74.00	-14.11	2.72	3	Horizontal	297	2.22	-	57.17	31.58	5.41	34.27
PK	5.2666G	120.92	Inf	-Inf	2.88	3	Horizontal	297	2.22	-	118.04	31.66	5.51	34.29
PK	5.3842G	60.60	74.00	-13.40	3.01	3	Horizontal	297	2.22	-	57.59	31.73	5.59	34.31



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5260MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.5275G	53.92	54.00	-0.08	13.30	3	Vertical	283	2.17	-	40.62	39.83	7.98	34.51
PK	10.5252G	67.61	74.00	-6.39	13.30	3	Vertical	283	2.17	-	54.31	39.83	7.98	34.51

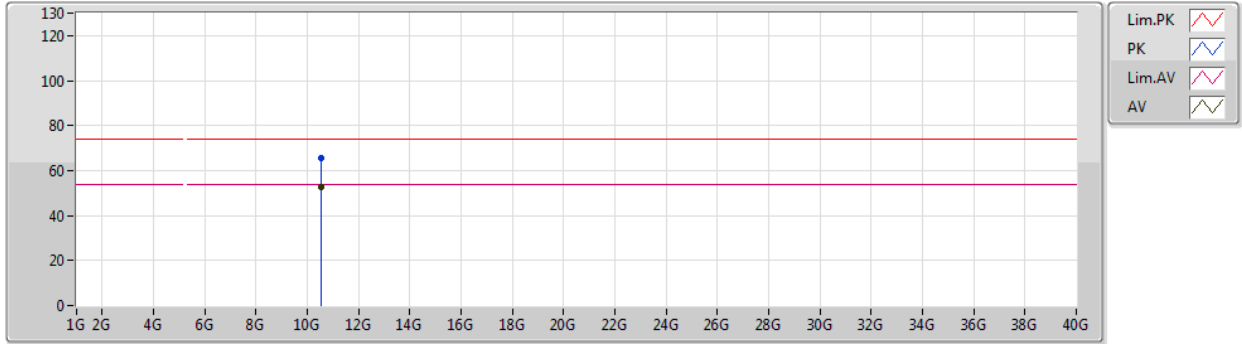




802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5260MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.52036G	52.91	54.00	-1.09	13.29	3	Horizontal	285	1.47	-	39.62	39.82	7.98	34.51
PK	10.51922G	65.47	74.00	-8.53	13.29	3	Horizontal	285	1.47	-	52.18	39.82	7.98	34.51

Remark :

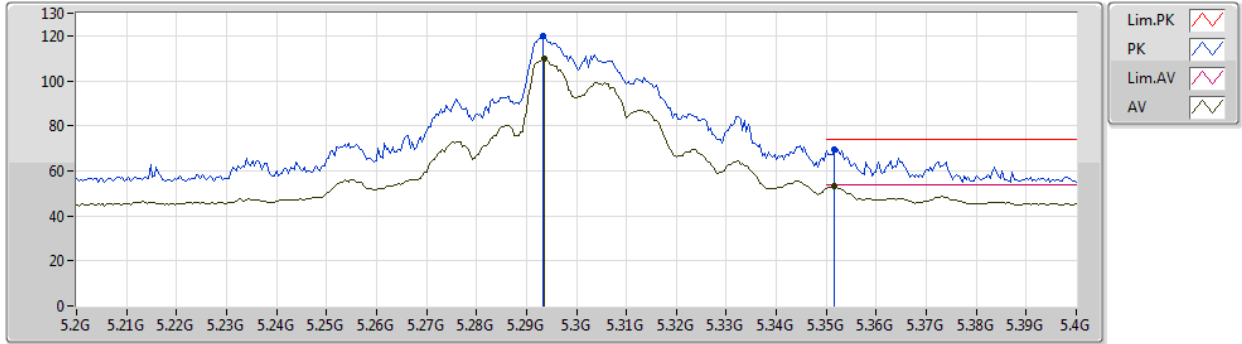
Page No. : D40 of D104

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5300MHz\_TX

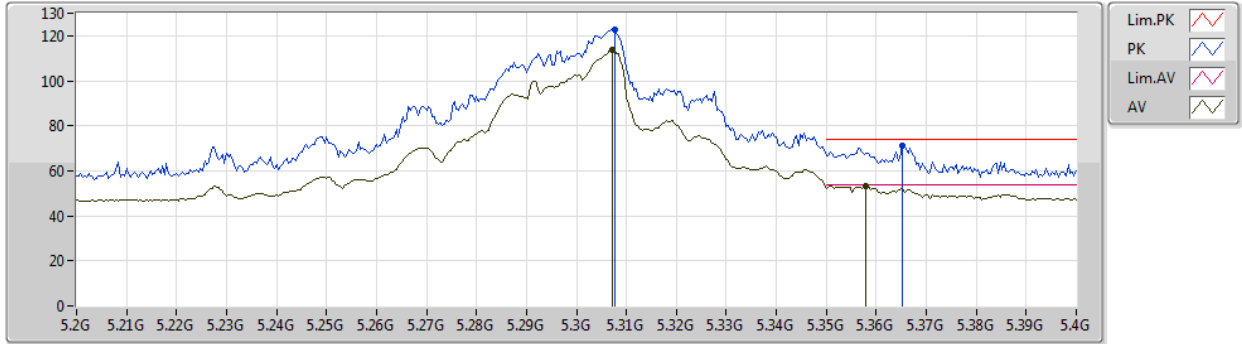


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.2936G	109.80	Inf	-Inf	2.91	3	Vertical	3	1.46	-	106.89	31.68	5.53	34.30
AV	5.3516G	52.97	54.00	-1.03	2.97	3	Vertical	3	1.46	-	50.00	31.71	5.57	34.31
PK	5.2932G	119.72	Inf	-Inf	2.91	3	Vertical	3	1.46	-	116.81	31.68	5.53	34.30
PK	5.3516G	69.59	74.00	-4.41	2.97	3	Vertical	3	1.46	-	66.62	31.71	5.57	34.31

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5300MHz\_TX



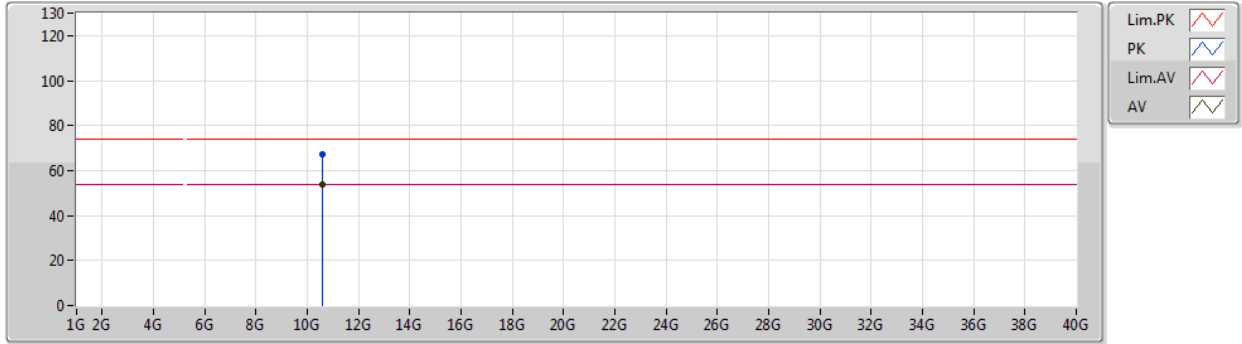
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AV	5.3072G	113.69	Inf	-Inf	2.92	3	Horizontal	289	1.51	-	110.77	31.68	5.54	34.30
AV	5.358G	53.43	54.00	-0.57	2.97	3	Horizontal	289	1.51	-	50.46	31.71	5.57	34.31
PK	5.3076G	122.56	Inf	-Inf	2.92	3	Horizontal	289	1.51	-	119.64	31.68	5.54	34.30
PK	5.3652G	71.30	74.00	-2.70	2.99	3	Horizontal	289	1.51	-	68.31	31.72	5.58	34.31



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5300MHz\_TX



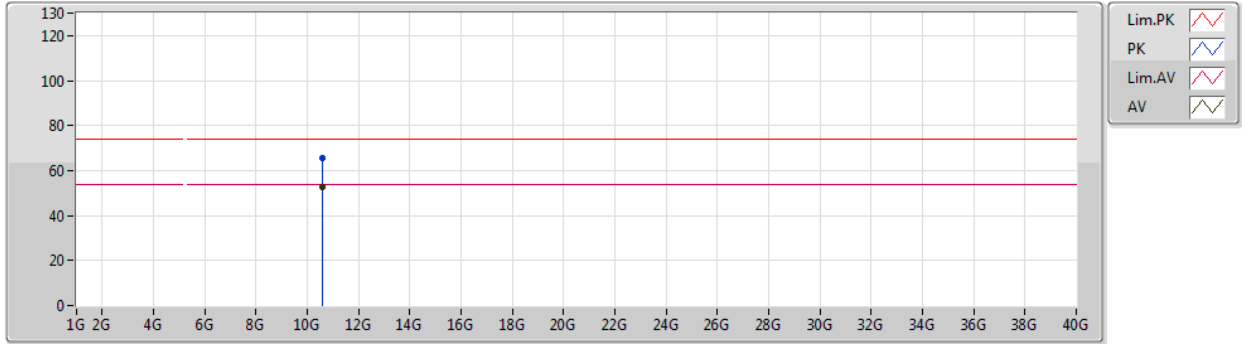
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.59502G	53.78	54.00	-0.22	13.39	3	Vertical	298	1.98	-	40.39	39.90	7.98	34.49
PK	10.59592G	67.49	74.00	-6.51	13.39	3	Vertical	298	1.98	-	54.10	39.90	7.98	34.49



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5300MHz\_TX

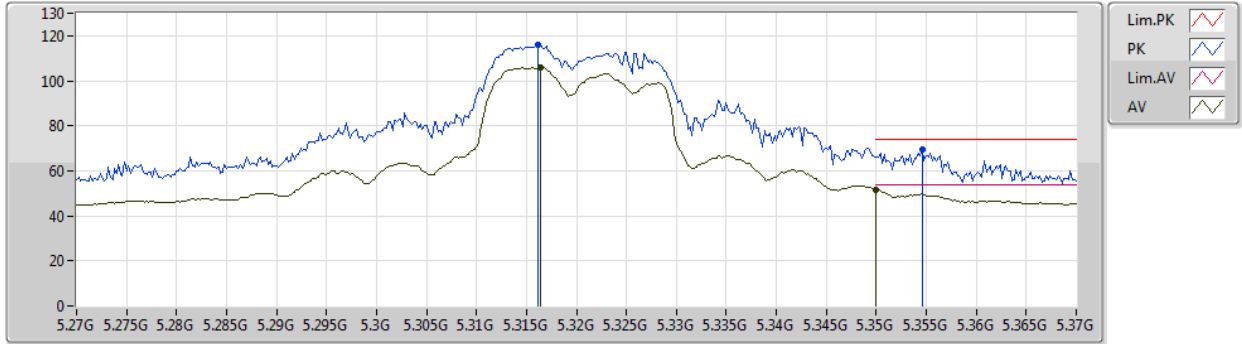


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.59658G	52.51	54.00	-1.49	13.39	3	Horizontal	226	1.63	-	39.12	39.90	7.98	34.49
PK	10.59706G	65.84	74.00	-8.16	13.39	3	Horizontal	226	1.63	-	52.45	39.90	7.98	34.49

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5320MHz\_TX

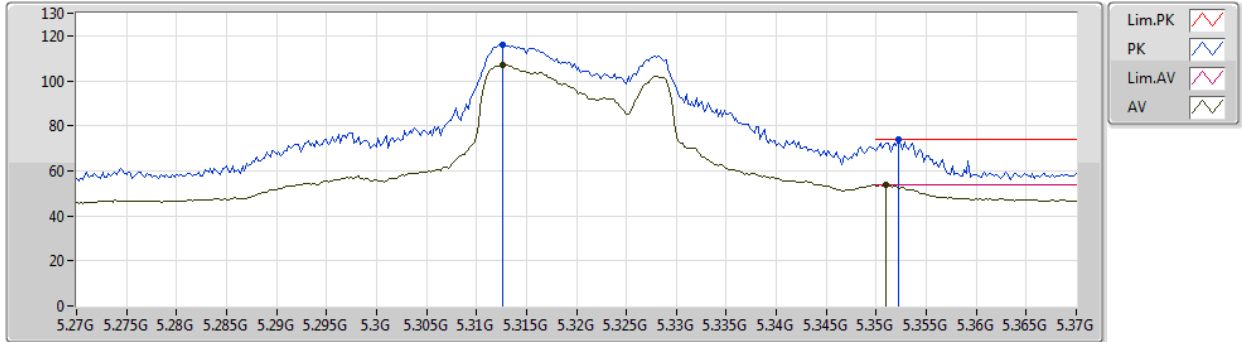


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3164G	106.08	Inf	-Inf	2.93	3	Vertical	277	2.89	-	103.15	31.69	5.54	34.30
AV	5.35G	51.55	54.00	-2.45	2.96	3	Vertical	277	2.89	-	48.59	31.71	5.56	34.31
PK	5.3162G	116.26	Inf	-Inf	2.93	3	Vertical	277	2.89	-	113.33	31.69	5.54	34.30
PK	5.3546G	69.61	74.00	-4.39	2.97	3	Vertical	277	2.89	-	66.64	31.71	5.57	34.31

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5320MHz\_TX



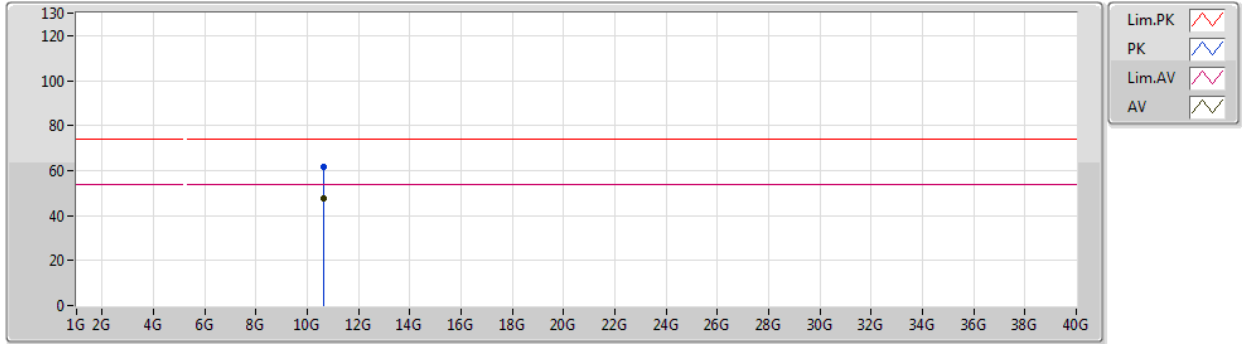
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.3126G	106.90	Inf	-Inf	2.93	3	Horizontal	208	1.68	-	103.97	31.69	5.54	34.30
AV	5.351G	53.80	54.00	-0.20	2.97	3	Horizontal	208	1.68	-	50.83	31.71	5.57	34.31
PK	5.3126G	116.26	Inf	-Inf	2.93	3	Horizontal	208	1.68	-	113.33	31.69	5.54	34.30
PK	5.3522G	73.86	74.00	-0.14	2.97	3	Horizontal	208	1.68	-	70.89	31.71	5.57	34.31



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5320MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.64384G	47.90	54.00	-6.10	13.46	3	Vertical	268	1.76	-	34.44	39.94	7.99	34.47
PK	10.64312G	61.52	74.00	-12.48	13.46	3	Vertical	268	1.76	-	48.06	39.94	7.99	34.47

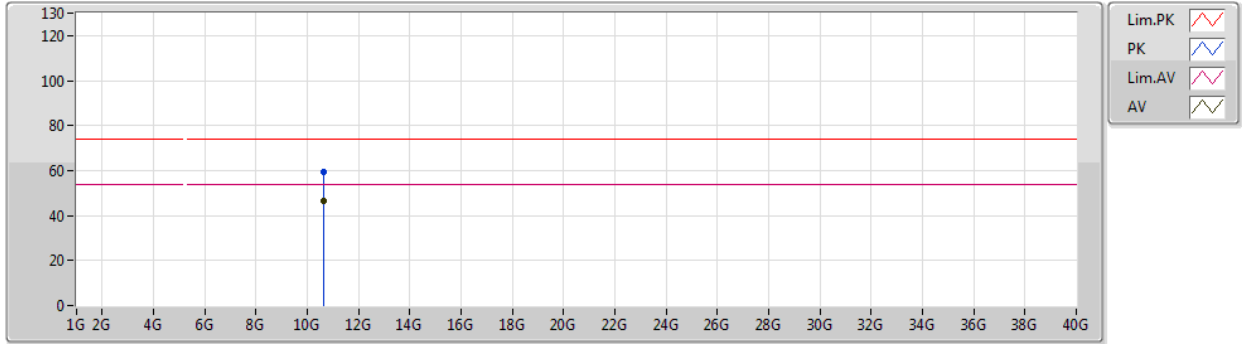




802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5320MHz\_TX

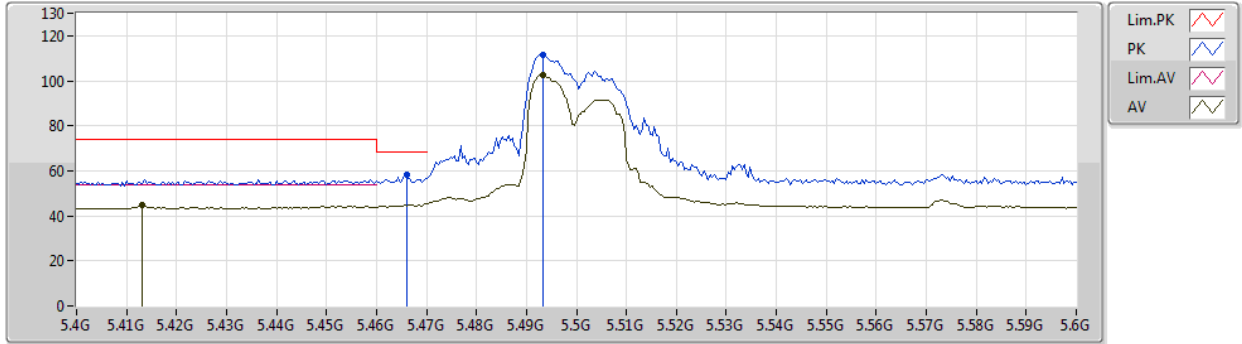


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.63712G	46.36	54.00	-7.64	13.45	3	Horizontal	220	1.50	-	32.91	39.94	7.99	34.48
PK	10.6352G	59.67	74.00	-14.33	13.45	3	Horizontal	220	1.50	-	46.22	39.94	7.99	34.48

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5500MHz\_TX

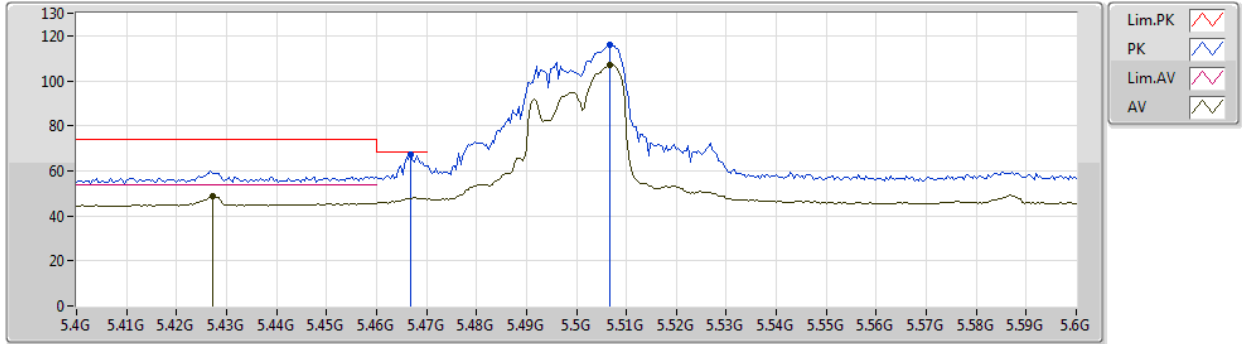


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4132G	44.69	54.00	-9.31	3.04	3	Vertical	4	1.50	-	41.65	31.75	5.61	34.32
AV	5.4932G	102.66	Inf	-Inf	3.14	3	Vertical	4	1.50	-	99.52	31.80	5.67	34.33
PK	5.466G	58.43	68.20	-9.77	3.11	3	Vertical	4	1.50	-	55.32	31.78	5.65	34.32
PK	5.4932G	111.37	Inf	-Inf	3.14	3	Vertical	4	1.50	-	108.23	31.80	5.67	34.33

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5500MHz\_TX



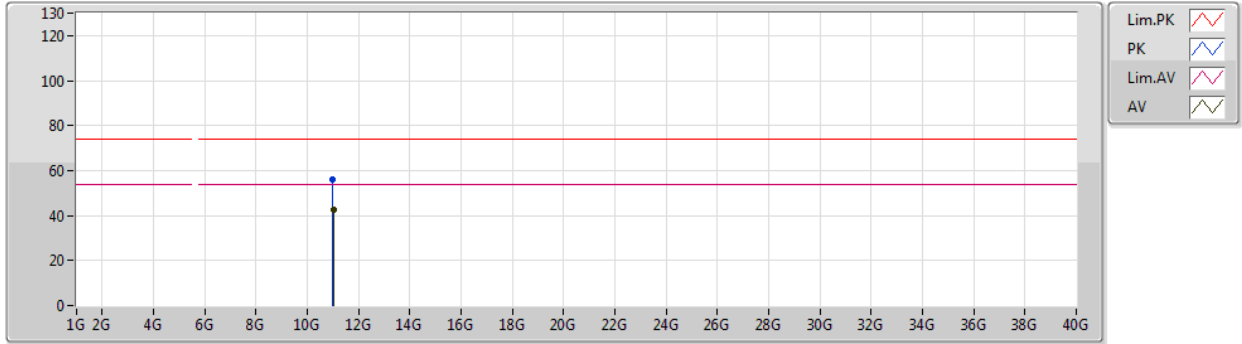
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AV	5.4272G	48.94	54.00	-5.06	3.06	3	Horizontal	292	1.52	-	45.88	31.76	5.62	34.32
AV	5.5068G	107.27	Inf	-Inf	3.15	3	Horizontal	292	1.52	-	104.12	31.81	5.67	34.33
PK	5.4668G	67.02	68.20	-1.18	3.11	3	Horizontal	292	1.52	-	63.91	31.78	5.65	34.32
PK	5.5068G	116.00	Inf	-Inf	3.15	3	Horizontal	292	1.52	-	112.85	31.81	5.67	34.33



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5500MHz\_TX



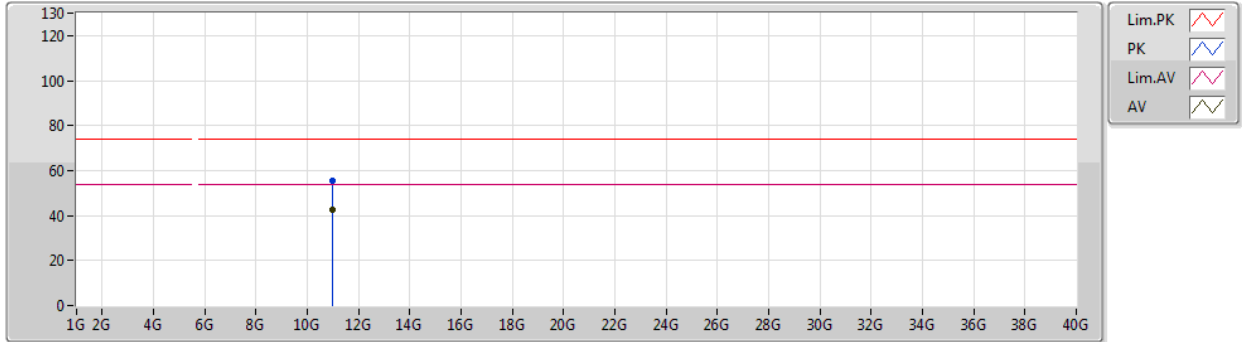
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AV	11.00936G	42.41	54.00	-11.59	13.95	3	Vertical	0	1.14	-	28.46	40.29	8.02	34.36
PK	11.00696G	55.81	74.00	-18.19	13.96	3	Vertical	0	1.14	-	41.85	40.30	8.02	34.36



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5500MHz\_TX

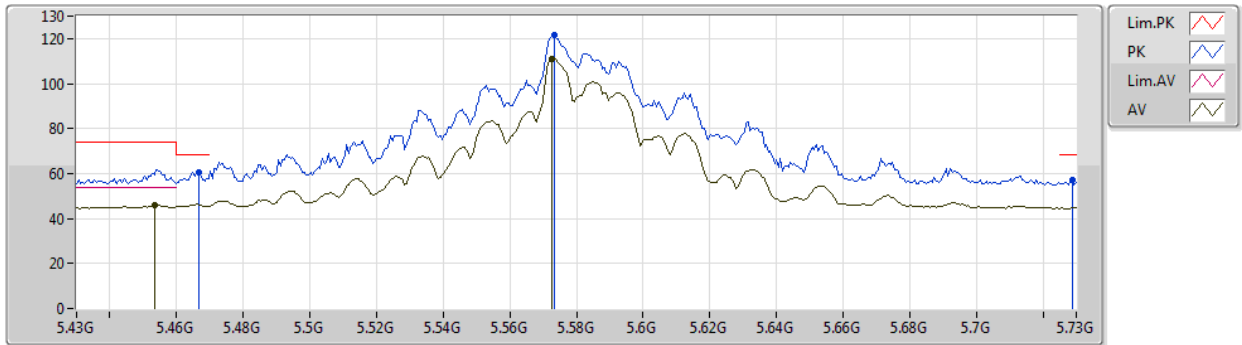


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.0074G	42.63	54.00	-11.37	13.96	3	Horizontal	33	1.50	-	28.67	40.30	8.02	34.36
PK	11.00052G	55.24	74.00	-18.76	13.96	3	Horizontal	33	1.50	-	41.28	40.30	8.02	34.36

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5580MHz\_TX

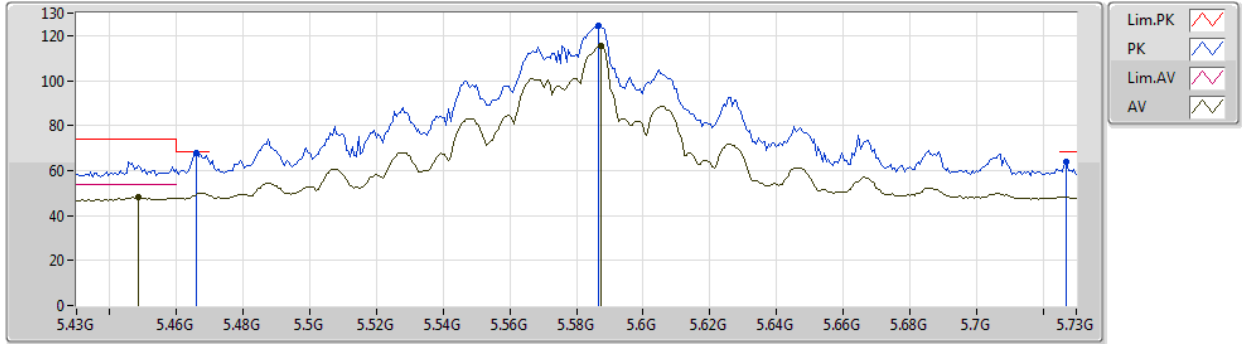


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4534G	45.80	54.00	-8.20	3.09	3	Vertical	357	1.50	-	42.71	31.77	5.64	34.32
AV	5.5728G	111.16	Inf	-Inf	3.28	3	Vertical	357	1.50	-	107.88	31.90	5.72	34.34
PK	5.4666G	60.38	68.20	-7.82	3.11	3	Vertical	357	1.50	-	57.27	31.78	5.65	34.32
PK	5.5734G	121.69	Inf	-Inf	3.28	3	Vertical	357	1.50	-	118.41	31.90	5.72	34.34
PK	5.7288G	57.33	68.20	-10.87	3.59	3	Vertical	357	1.50	-	53.74	32.12	5.83	34.36

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5580MHz\_TX



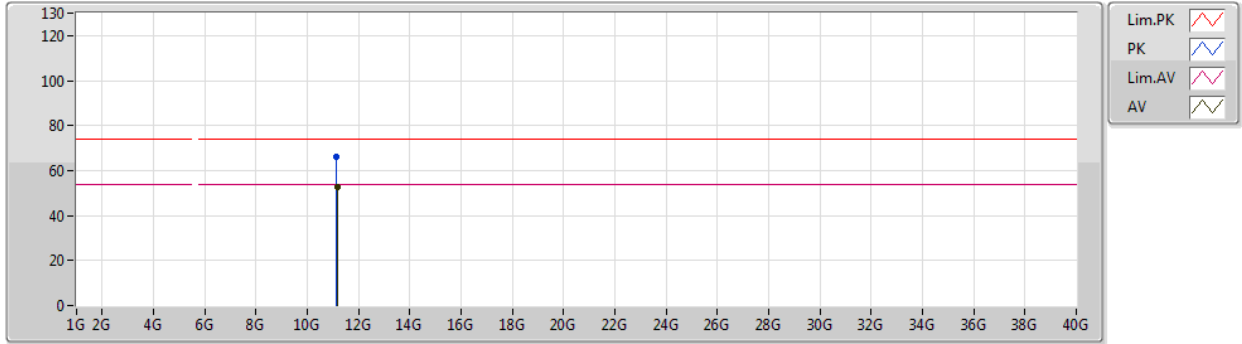
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4486G	48.32	54.00	-5.68	3.08	3	Horizontal	295	1.59	-	45.24	31.77	5.63	34.32
AV	5.5872G	115.53	Inf	-Inf	3.31	3	Horizontal	295	1.59	-	112.22	31.92	5.73	34.34
PK	5.466G	68.03	68.20	-0.17	3.11	3	Horizontal	295	1.59	-	64.92	31.78	5.65	34.32
PK	5.5866G	124.35	Inf	-Inf	3.31	3	Horizontal	295	1.59	-	121.04	31.92	5.73	34.34
PK	5.727G	64.14	68.20	-4.06	3.59	3	Horizontal	295	1.59	-	60.55	32.12	5.83	34.36



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5580MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15688G	52.86	54.00	-1.14	13.88	3	Vertical	267	1.64	-	38.98	40.21	8.03	34.36
PK	11.1543G	66.03	74.00	-7.97	13.88	3	Vertical	267	1.64	-	52.15	40.21	8.03	34.36

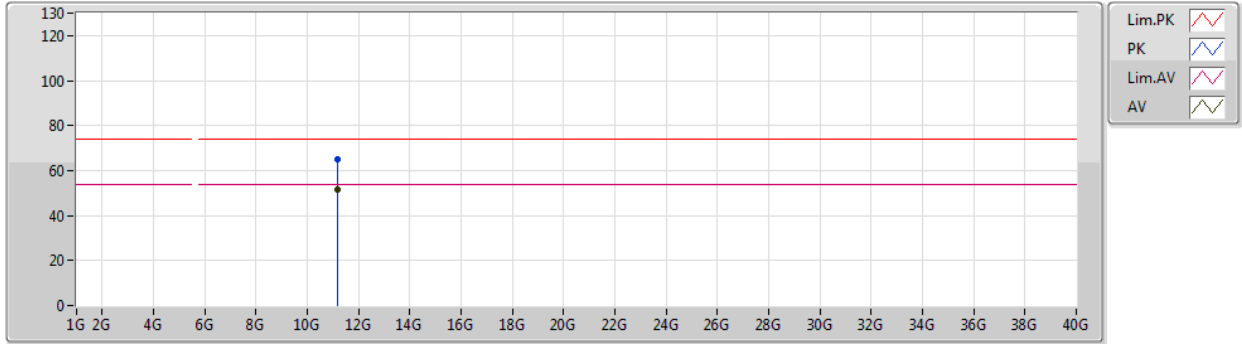




802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5580MHz\_TX

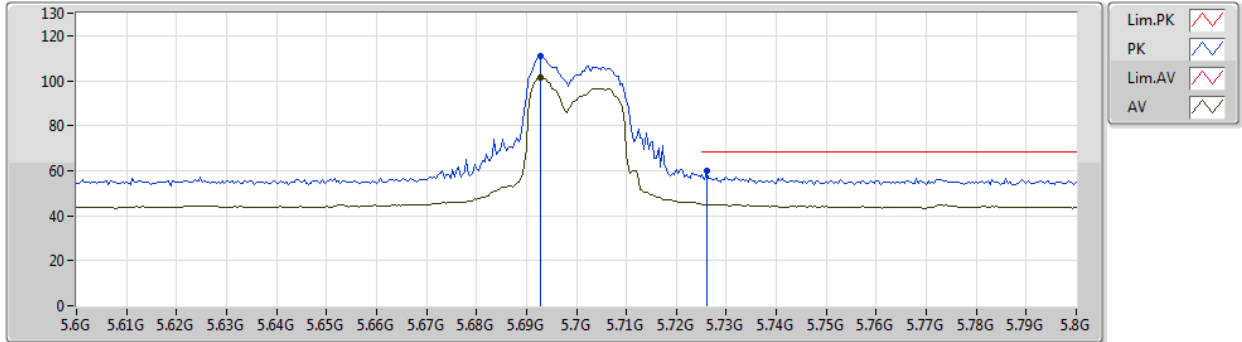


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.15928G	51.43	54.00	-2.57	13.87	3	Horizontal	110	2.65	-	37.56	40.20	8.03	34.36
PK	11.1591G	64.83	74.00	-9.17	13.87	3	Horizontal	110	2.65	-	50.96	40.20	8.03	34.36

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5700MHz\_TX



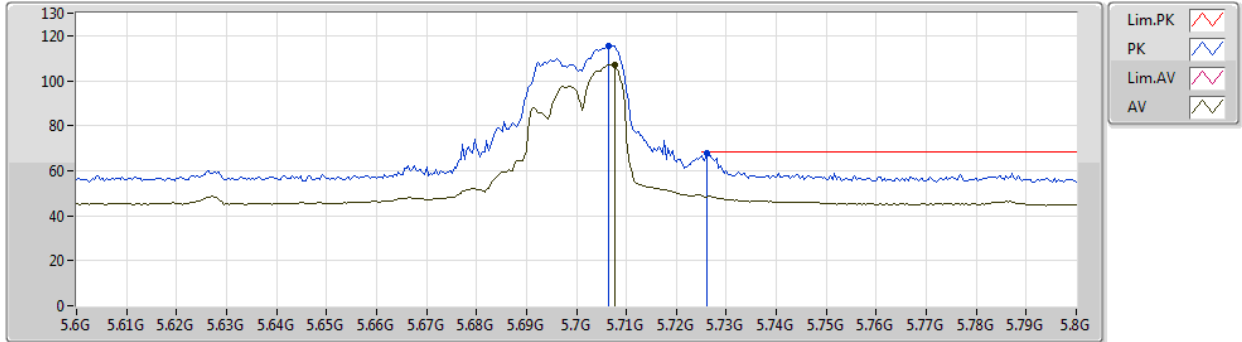
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AV	5.6928G	101.40	Inf	-Inf	3.52	3	Vertical	285	1.50	-	97.88	32.07	5.80	34.35
PK	5.6928G	110.72	Inf	-Inf	3.52	3	Vertical	285	1.50	-	107.20	32.07	5.80	34.35
PK	5.726G	59.68	68.20	-8.52	3.59	3	Vertical	285	1.50	-	56.09	32.12	5.83	34.36



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5700MHz\_TX



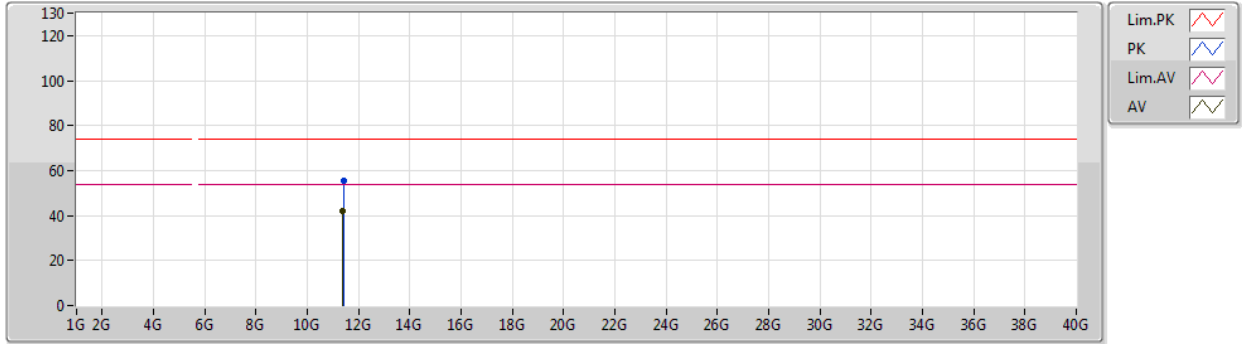
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7076G	106.85	Inf	-Inf	3.56	3	Horizontal	293	1.50	-	103.29	32.09	5.82	34.35
PK	5.7064G	115.62	Inf	-Inf	3.55	3	Horizontal	293	1.50	-	112.07	32.09	5.81	34.35
PK	5.726G	67.63	68.20	-0.57	3.59	3	Horizontal	293	1.50	-	64.04	32.12	5.83	34.36



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5700MHz\_TX



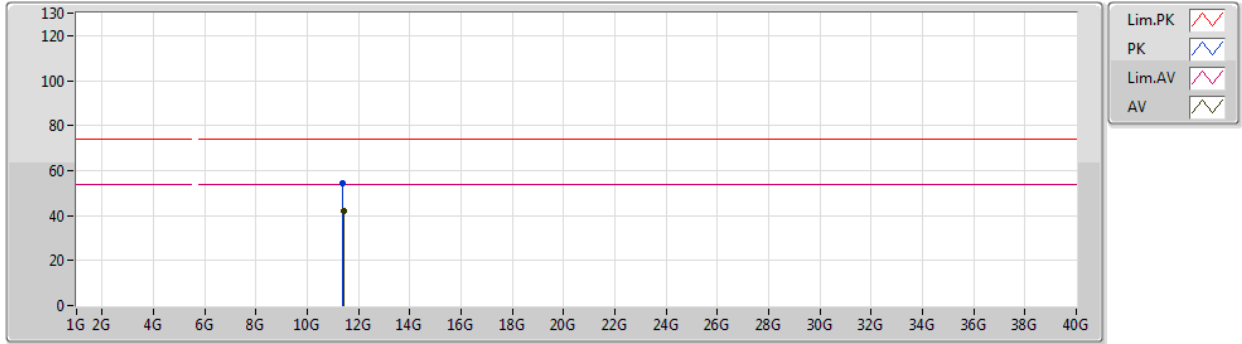
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AV	11.38734G	41.83	54.00	-12.17	13.74	3	Vertical	200	1.50	-	28.09	40.07	8.04	34.37
PK	11.40474G	55.27	74.00	-18.73	13.74	3	Vertical	200	1.50	-	41.53	40.06	8.05	34.37



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5700MHz\_TX

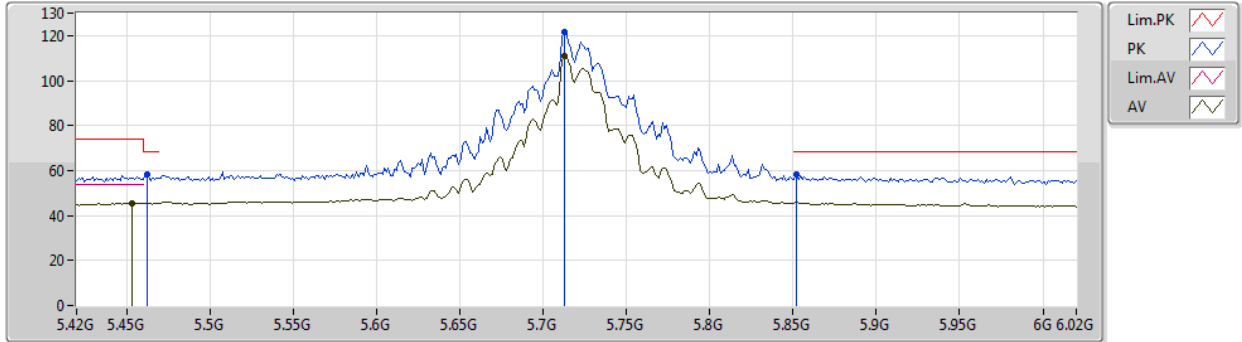


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.40702G	41.92	54.00	-12.08	13.74	3	Horizontal	19	1.46	-	28.18	40.06	8.05	34.37
PK	11.39718G	54.54	74.00	-19.46	13.73	3	Horizontal	19	1.46	-	40.81	40.06	8.04	34.37

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5720MHz Straddle 5.47-5.725GHz\_TX

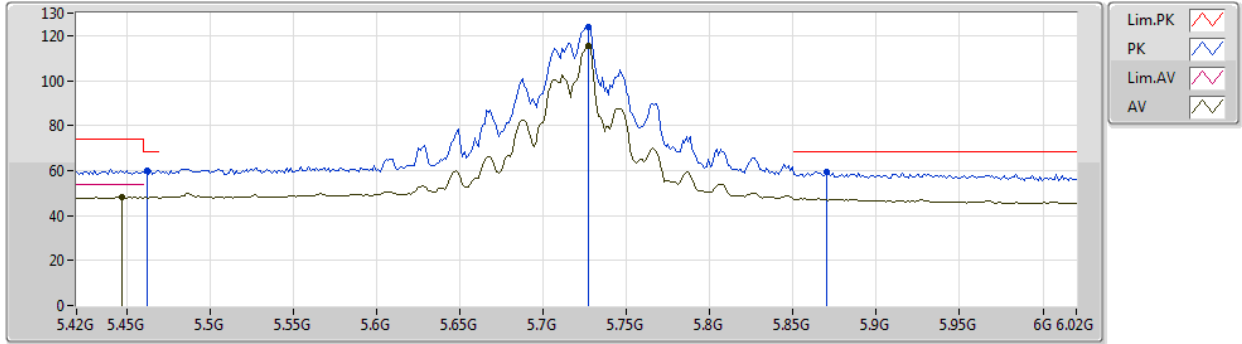


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4536G	45.62	54.00	-8.38	3.09	3	Vertical	274	1.61	-	42.53	31.77	5.64	34.32
AV	5.7128G	110.97	Inf	-Inf	3.56	3	Vertical	274	1.61	-	107.41	32.10	5.82	34.36
PK	5.462G	58.39	68.20	-9.81	3.10	3	Vertical	274	1.61	-	55.29	31.78	5.64	34.32
PK	5.7128G	121.51	Inf	-Inf	3.56	3	Vertical	274	1.61	-	117.95	32.10	5.82	34.36
PK	5.852G	58.31	68.20	-9.89	3.84	3	Vertical	274	1.61	-	54.47	32.29	5.92	34.37

802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5720MHz Straddle 5.47-5.725GHz\_TX



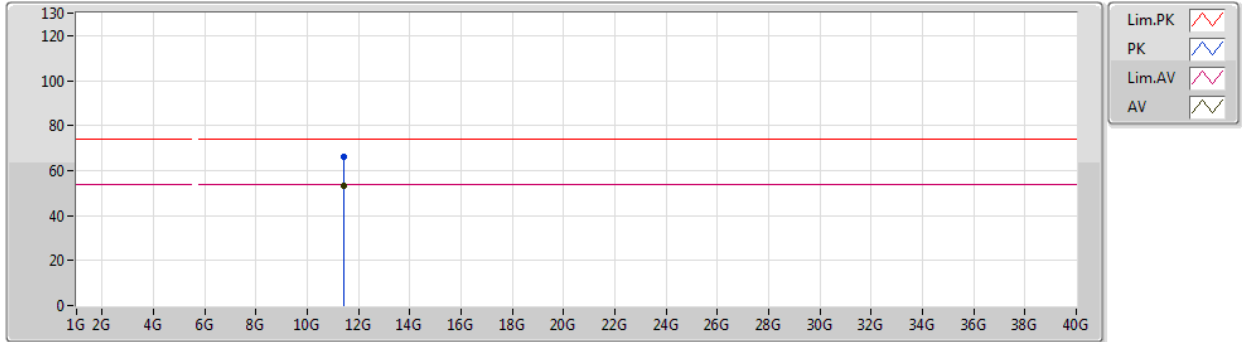
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4476G	48.25	54.00	-5.75	3.08	3	Horizontal	280	1.71	-	45.17	31.77	5.63	34.32
AV	5.7272G	115.64	Inf	-Inf	3.59	3	Horizontal	280	1.71	-	112.05	32.12	5.83	34.36
PK	5.462G	60.09	68.20	-8.11	3.10	3	Horizontal	280	1.71	-	56.99	31.78	5.64	34.32
PK	5.7272G	124.10	Inf	-Inf	3.59	3	Horizontal	280	1.71	-	120.51	32.12	5.83	34.36
PK	5.87G	59.33	68.20	-8.87	3.88	3	Horizontal	280	1.71	-	55.45	32.32	5.93	34.37



802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5720MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.43922G	53.34	54.00	-0.66	13.72	3	Vertical	304	1.94	-	39.62	40.04	8.05	34.37
PK	11.43916G	65.85	74.00	-8.15	13.72	3	Vertical	304	1.94	-	52.13	40.04	8.05	34.37

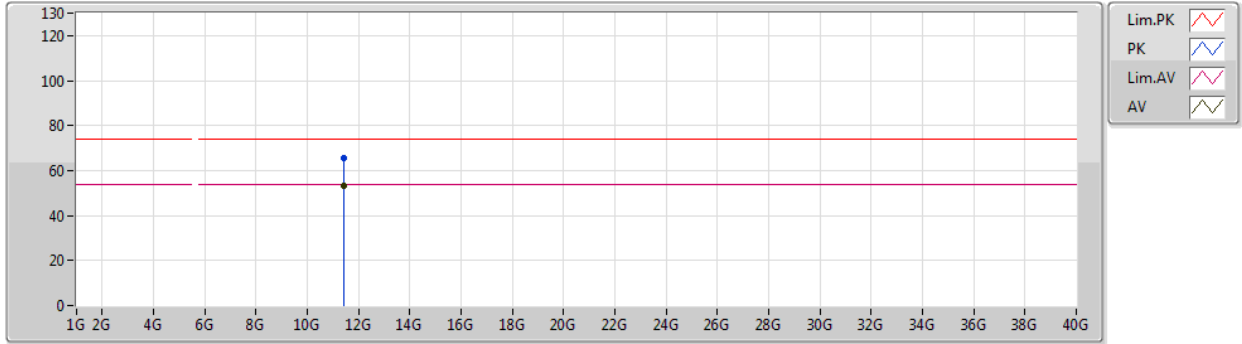




802.11ac VHT20\_Nss4,(MCS0)\_4TX

06/03/2019

5720MHz\_TX

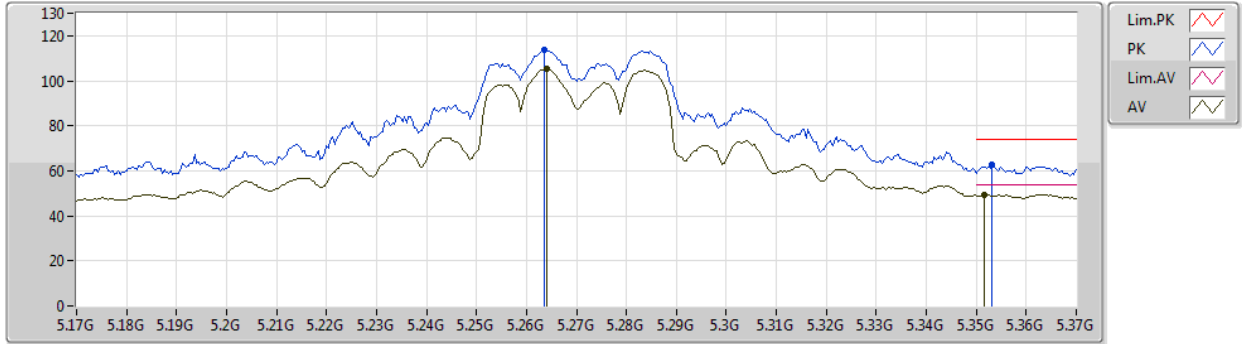


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.43994G	53.06	54.00	-0.94	13.72	3	Horizontal	238	2.11	-	39.34	40.04	8.05	34.37
PK	11.44018G	65.42	74.00	-8.58	13.72	3	Horizontal	238	2.11	-	51.70	40.04	8.05	34.37

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5270MHz\_TX

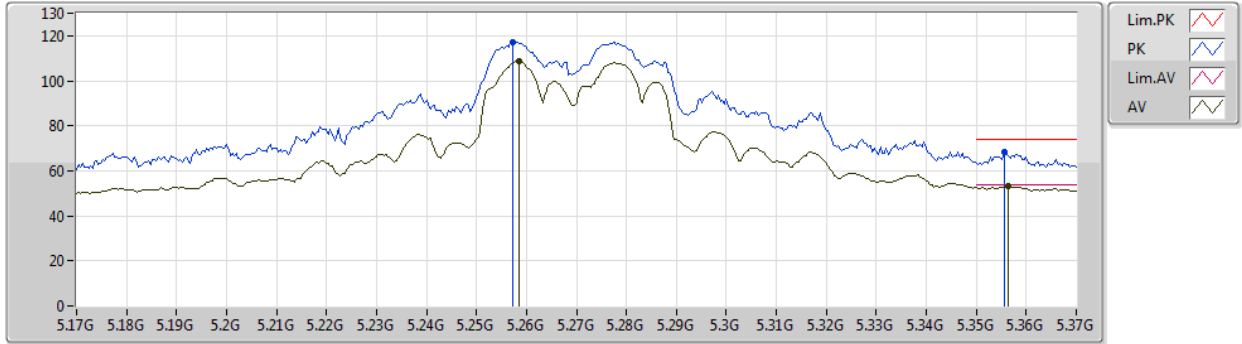


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.264G	105.16	Inf	-Inf	2.87	3	Vertical	349	1.50	-	102.29	31.66	5.50	34.29
AV	5.3516G	49.41	54.00	-4.59	2.97	3	Vertical	349	1.50	-	46.44	31.71	5.57	34.31
PK	5.2636G	113.90	Inf	-Inf	2.87	3	Vertical	349	1.50	-	111.03	31.66	5.50	34.29
PK	5.3532G	62.68	74.00	-11.32	2.97	3	Vertical	349	1.50	-	59.71	31.71	5.57	34.31

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5270MHz\_TX



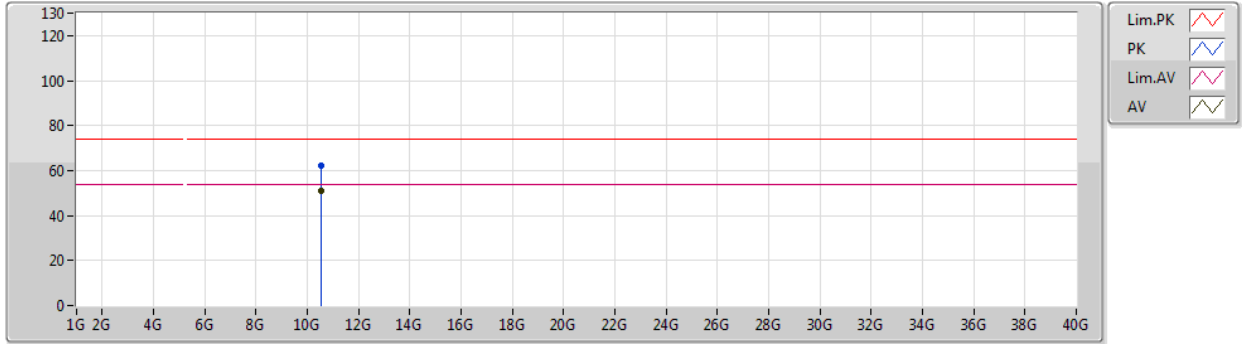
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.2584G	108.52	Inf	-Inf	2.87	3	Horizontal	295	1.75	-	105.65	31.66	5.50	34.29
AV	5.3564G	53.04	54.00	-0.96	2.97	3	Horizontal	295	1.75	-	50.07	31.71	5.57	34.31
PK	5.2572G	117.03	Inf	-Inf	2.86	3	Horizontal	295	1.75	-	114.17	31.65	5.50	34.29
PK	5.3556G	68.43	74.00	-5.57	2.97	3	Horizontal	295	1.75	-	65.46	31.71	5.57	34.31



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5270MHz\_TX



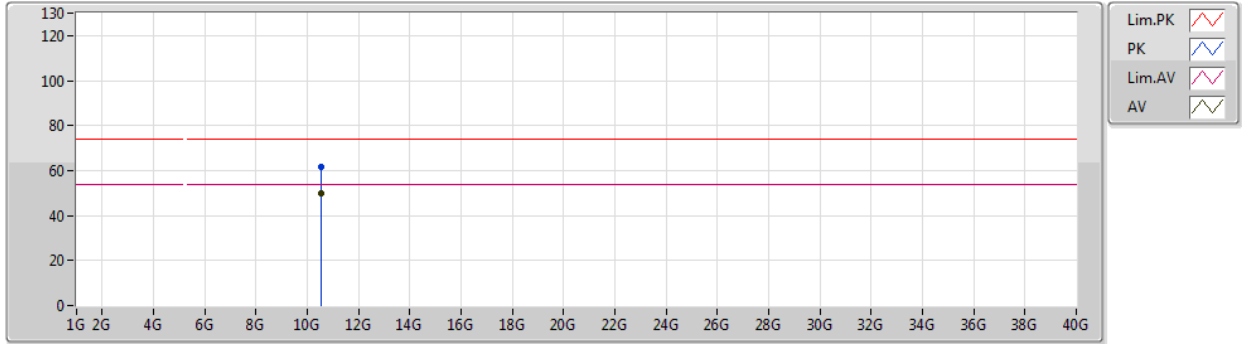
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.54606G	51.05	54.00	-2.95	13.32	3	Vertical	268	2.12	-	37.73	39.85	7.98	34.51
PK	10.5454G	62.24	74.00	-11.76	13.32	3	Vertical	268	2.12	-	48.92	39.85	7.98	34.51



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5270MHz\_TX

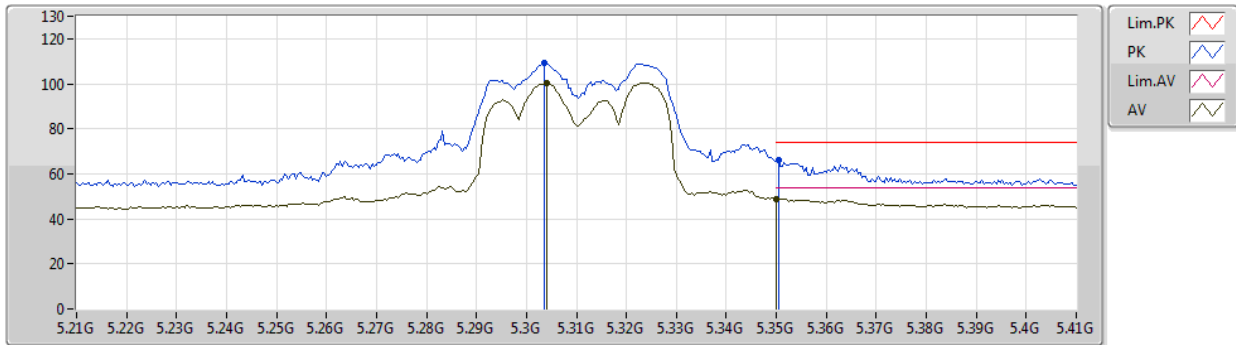


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.54G	49.64	54.00	-4.36	13.31	3	Horizontal	272	1.44	-	36.33	39.84	7.98	34.51
PK	10.54024G	61.37	74.00	-12.63	13.31	3	Horizontal	272	1.44	-	48.06	39.84	7.98	34.51

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5310MHz\_TX

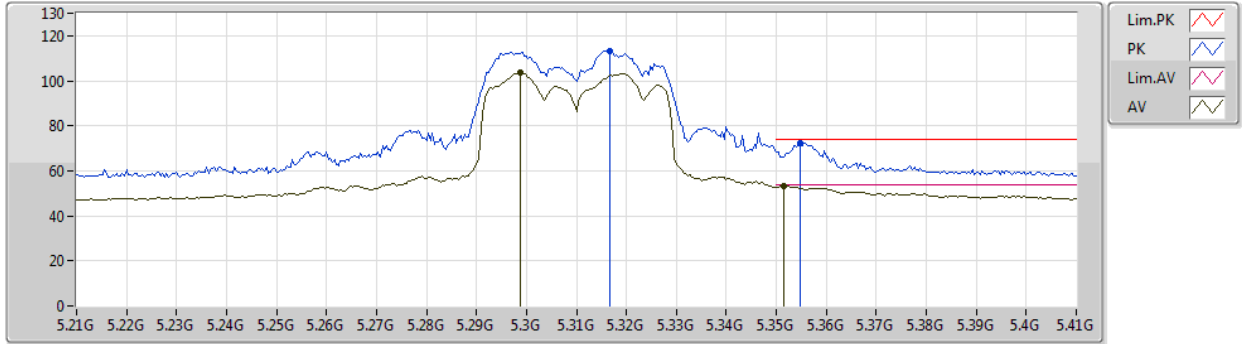


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.304G	100.37	Inf	-Inf	2.91	3	Vertical	353	1.47	-	97.46	31.68	5.53	34.30
AV	5.35G	48.66	54.00	-5.34	2.96	3	Vertical	353	1.47	-	45.70	31.71	5.56	34.31
PK	5.3036G	109.03	Inf	-Inf	2.91	3	Vertical	353	1.47	-	106.12	31.68	5.53	34.30
PK	5.3504G	66.20	74.00	-7.80	2.97	3	Vertical	353	1.47	-	63.23	31.71	5.57	34.31

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5310MHz\_TX



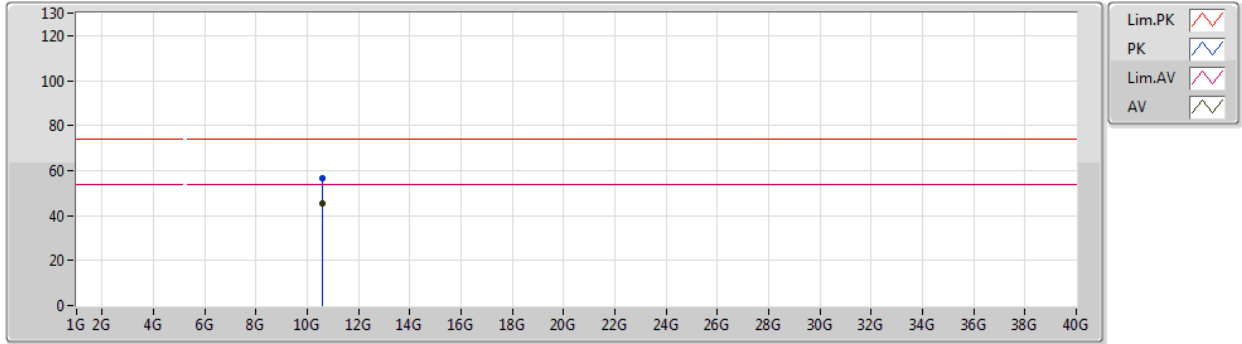
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AV	5.2988G	103.65	Inf	-Inf	2.91	3	Horizontal	289	2.10	-	100.74	31.68	5.53	34.30
AV	5.3516G	53.15	54.00	-0.85	2.97	3	Horizontal	289	2.10	-	50.18	31.71	5.57	34.31
PK	5.3168G	113.45	Inf	-Inf	2.93	3	Horizontal	289	2.10	-	110.52	31.69	5.54	34.30
PK	5.3548G	72.22	74.00	-1.78	2.97	3	Horizontal	289	2.10	-	69.25	31.71	5.57	34.31



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5310MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.61262G	45.22	54.00	-8.78	13.42	3	Vertical	261	1.69	-	31.80	39.91	7.99	34.48
PK	10.61274G	56.81	74.00	-17.19	13.42	3	Vertical	261	1.69	-	43.39	39.91	7.99	34.48

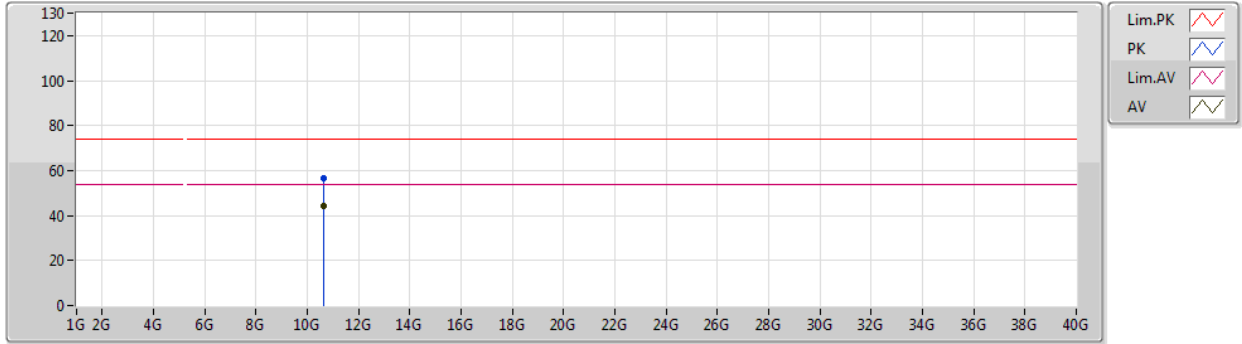




802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5310MHz\_TX

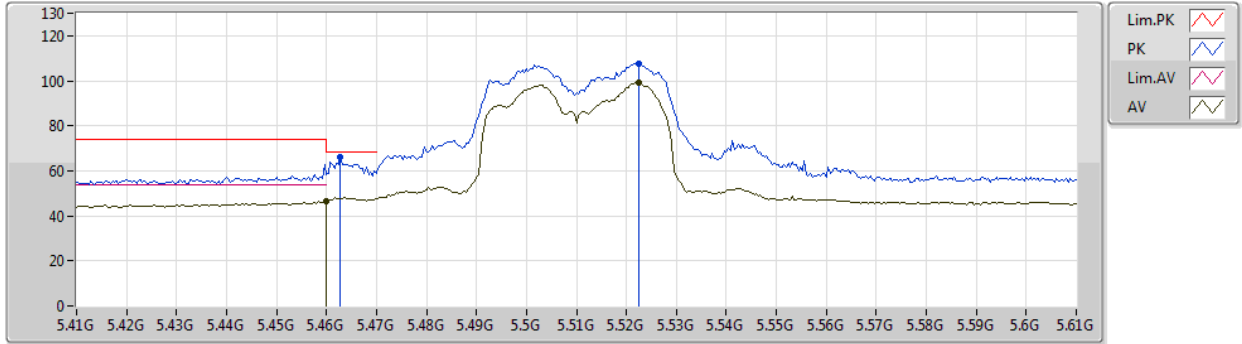


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.61976G	44.52	54.00	-9.48	13.43	3	Horizontal	236	2.18	-	31.09	39.92	7.99	34.48
PK	10.6212G	56.55	74.00	-17.45	13.43	3	Horizontal	236	2.18	-	43.12	39.92	7.99	34.48

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5510MHz\_TX

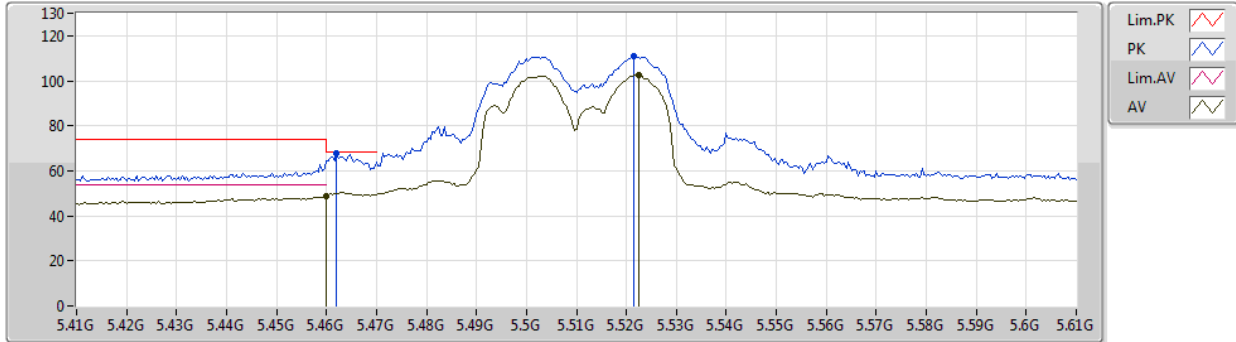


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	46.59	54.00	-7.41	3.10	3	Vertical	2	1.82	-	43.49	31.78	5.64	34.32
AV	5.5224G	99.27	Inf	-Inf	3.19	3	Vertical	2	1.82	-	96.08	31.83	5.69	34.33
PK	5.4628G	66.28	68.20	-1.92	3.10	3	Vertical	2	1.82	-	63.18	31.78	5.64	34.32
PK	5.5224G	107.84	Inf	-Inf	3.19	3	Vertical	2	1.82	-	104.65	31.83	5.69	34.33

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5510MHz\_TX



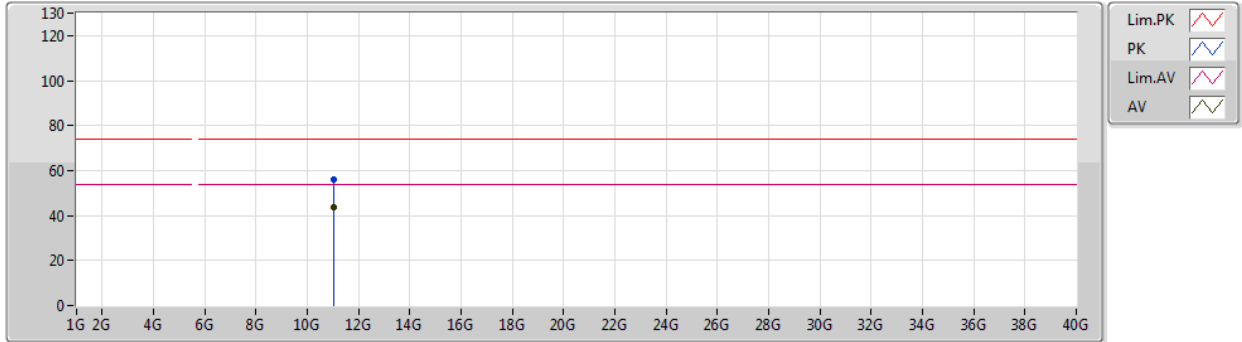
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AV	5.46G	48.75	54.00	-5.25	3.10	3	Horizontal	193	1.63	-	45.65	31.78	5.64	34.32
AV	5.5224G	102.58	Inf	-Inf	3.19	3	Horizontal	193	1.63	-	99.39	31.83	5.69	34.33
PK	5.462G	67.61	68.20	-0.59	3.10	3	Horizontal	193	1.63	-	64.51	31.78	5.64	34.32
PK	5.5216G	110.92	Inf	-Inf	3.19	3	Horizontal	193	1.63	-	107.73	31.83	5.69	34.33



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5510MHz\_TX



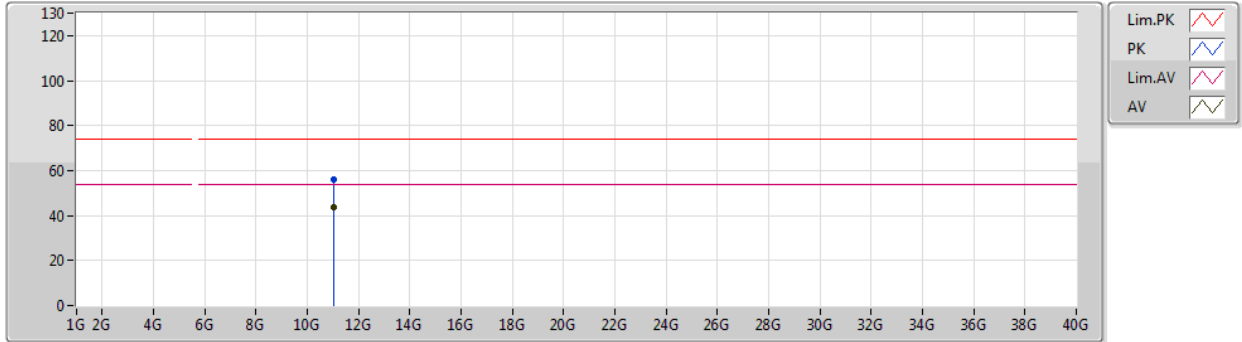
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AV	11.01682G	43.49	54.00	-10.51	13.95	3	Vertical	97	1.50	-	29.54	40.29	8.02	34.36
PK	11.02348G	56.16	74.00	-17.84	13.95	3	Vertical	97	1.50	-	42.21	40.29	8.02	34.36



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5510MHz\_TX

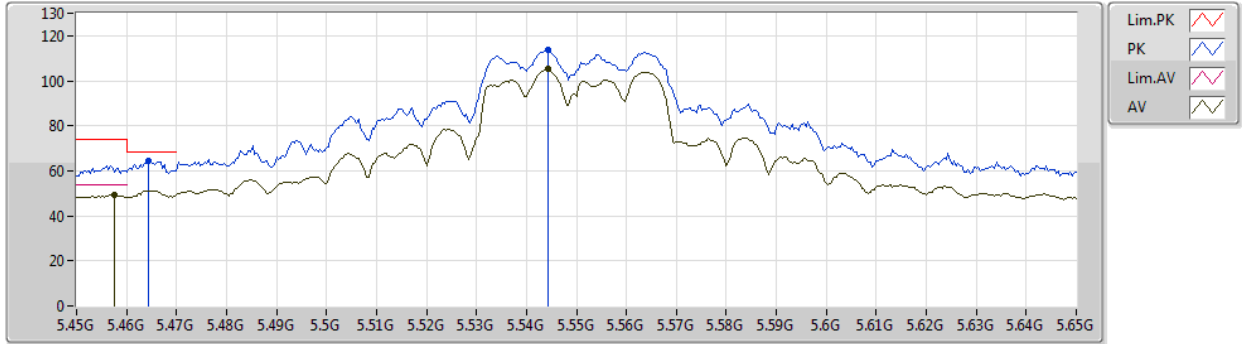


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.01364G	43.83	54.00	-10.17	13.95	3	Horizontal	89	1.50	-	29.88	40.29	8.02	34.36
PK	11.02132G	56.20	74.00	-17.80	13.95	3	Horizontal	89	1.50	-	42.25	40.29	8.02	34.36

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5550MHz\_TX

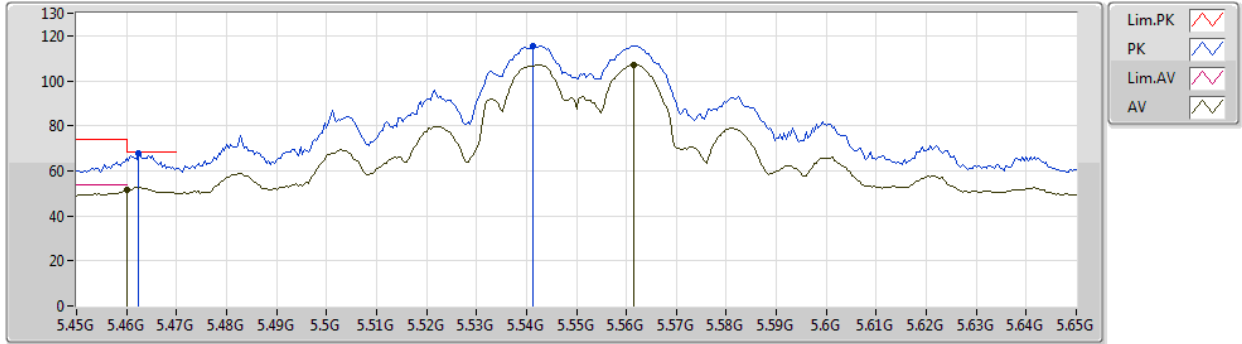


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4576G	49.27	54.00	-4.73	3.09	3	Vertical	270	2.53	-	46.18	31.77	5.64	34.32
AV	5.5444G	105.26	Inf	-Inf	3.22	3	Vertical	270	2.53	-	102.04	31.86	5.70	34.34
PK	5.4644G	64.48	68.20	-3.72	3.11	3	Vertical	270	2.53	-	61.37	31.78	5.65	34.32
PK	5.5444G	113.78	Inf	-Inf	3.22	3	Vertical	270	2.53	-	110.56	31.86	5.70	34.34

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5550MHz\_TX



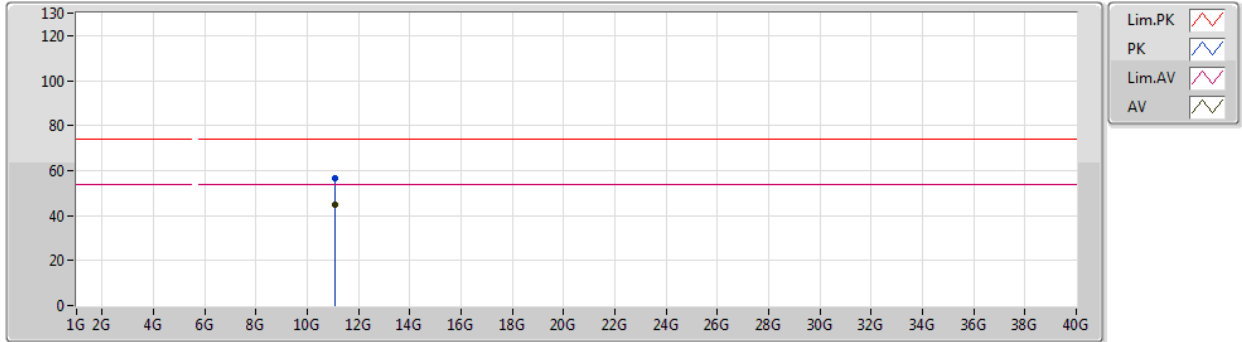
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AV	5.46G	51.81	54.00	-2.19	3.10	3	Horizontal	193	1.73	-	48.71	31.78	5.64	34.32
AV	5.5616G	107.14	Inf	-Inf	3.26	3	Horizontal	193	1.73	-	103.88	31.89	5.71	34.34
PK	5.4624G	67.54	68.20	-0.66	3.10	3	Horizontal	193	1.73	-	64.44	31.78	5.64	34.32
PK	5.5412G	115.62	Inf	-Inf	3.23	3	Horizontal	193	1.73	-	112.39	31.86	5.70	34.33



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5550MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.08692G	44.94	54.00	-9.06	13.91	3	Vertical	260	2.00	-	31.03	40.25	8.02	34.36
PK	11.10414G	56.52	74.00	-17.48	13.90	3	Vertical	260	2.00	-	42.62	40.24	8.02	34.36

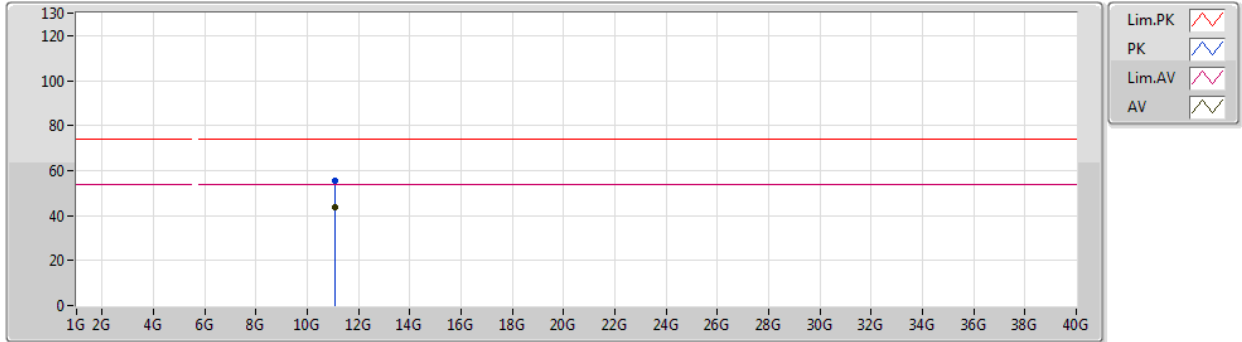




802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5550MHz\_TX

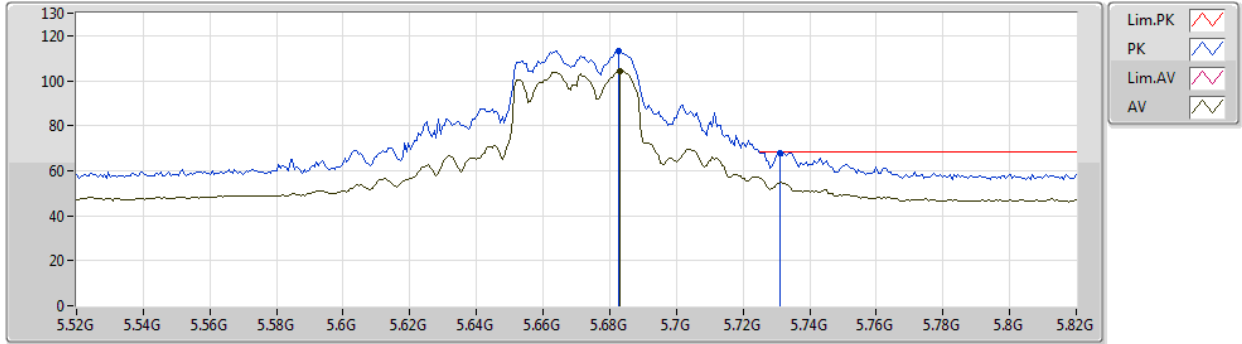


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.08608G	43.69	54.00	-10.31	13.91	3	Horizontal	293	1.27	-	29.78	40.25	8.02	34.36
PK	11.09814G	55.50	74.00	-18.50	13.90	3	Horizontal	293	1.27	-	41.60	40.24	8.02	34.36

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5670MHz\_TX



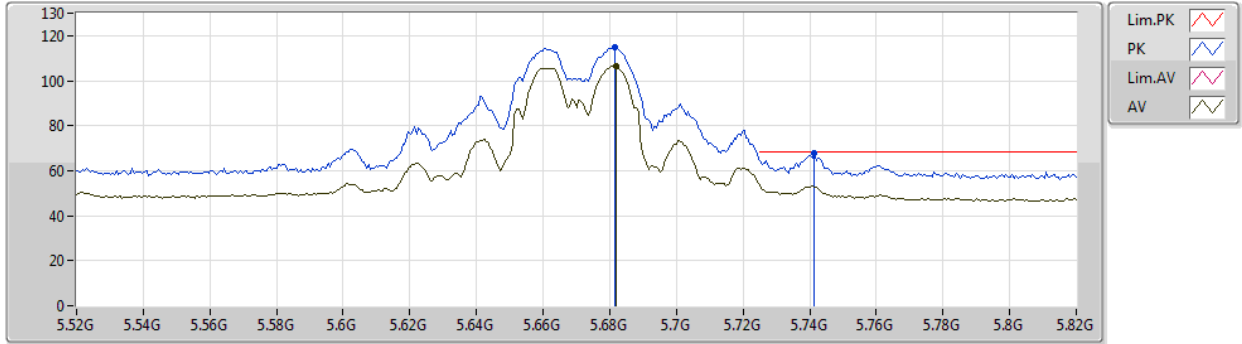
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.6832G	104.18	Inf	-Inf	3.51	3	Vertical	279	2.93	-	100.67	32.06	5.80	34.35
PK	5.6826G	113.29	Inf	-Inf	3.51	3	Vertical	279	2.93	-	109.78	32.06	5.80	34.35
PK	5.7312G	68.08	68.20	-0.12	3.59	3	Vertical	279	2.93	-	64.49	32.12	5.83	34.36



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5670MHz\_TX



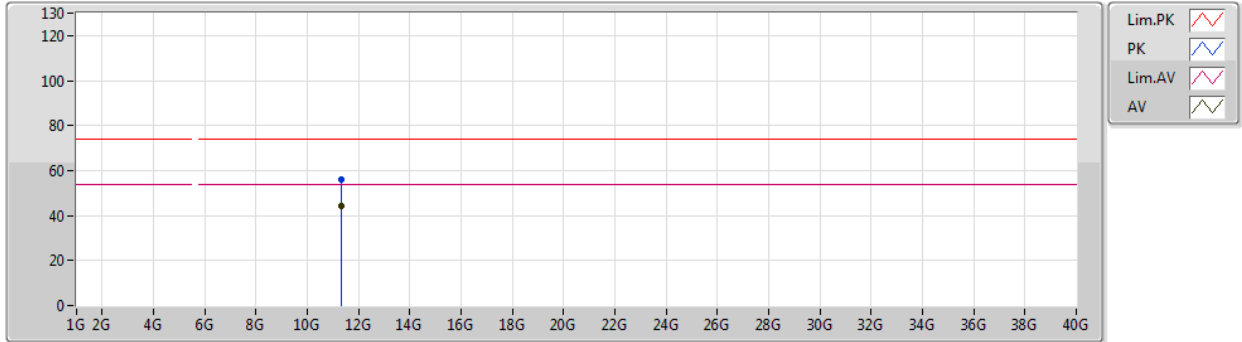
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.682G	106.70	Inf	-Inf	3.50	3	Horizontal	225	1.70	-	103.20	32.05	5.80	34.35
PK	5.6814G	114.82	Inf	-Inf	3.50	3	Horizontal	225	1.70	-	111.32	32.05	5.80	34.35
PK	5.7414G	67.83	68.20	-0.37	3.62	3	Horizontal	225	1.70	-	64.21	32.14	5.84	34.36



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5670MHz\_TX



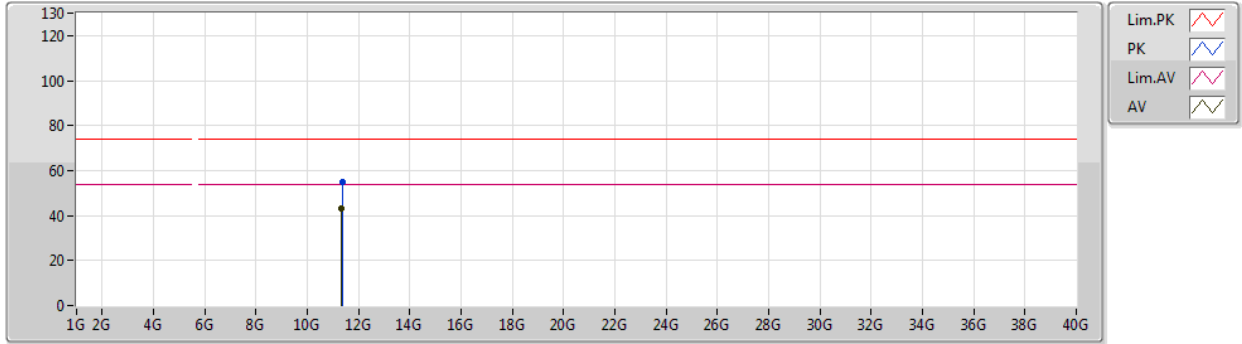
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AV	11.34072G	44.11	54.00	-9.89	13.77	3	Vertical	341	1.90	-	30.34	40.10	8.04	34.37
PK	11.33862G	56.02	74.00	-17.98	13.77	3	Vertical	341	1.90	-	42.25	40.10	8.04	34.37



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5670MHz\_TX

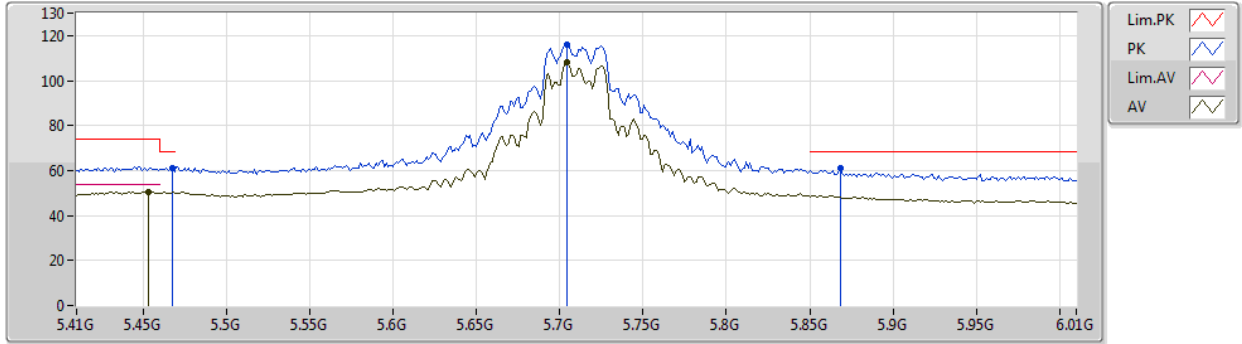


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.33166G	42.96	54.00	-11.04	13.77	3	Horizontal	243	1.58	-	29.19	40.10	8.04	34.37
PK	11.35374G	55.18	74.00	-18.82	13.76	3	Horizontal	243	1.58	-	41.42	40.09	8.04	34.37

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5710MHz Straddle 5.47-5.725GHz\_TX

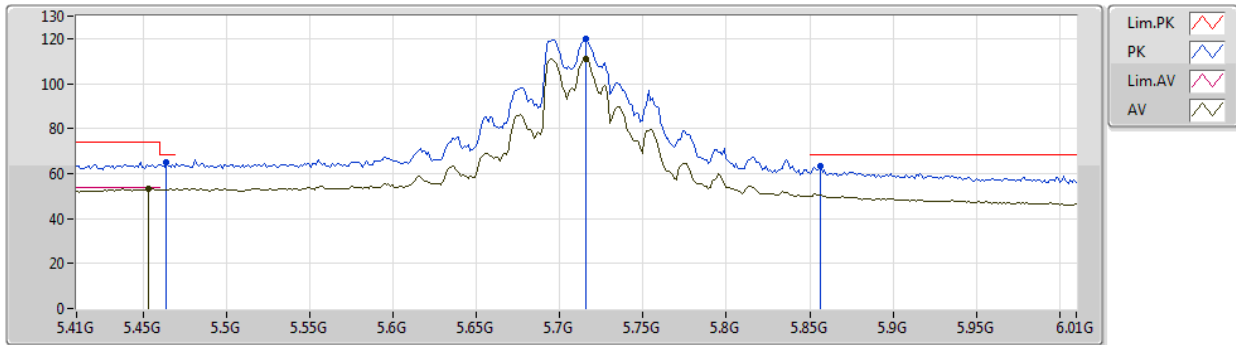


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4532G	50.57	54.00	-3.43	3.09	3	Vertical	283	2.91	-	47.48	31.77	5.64	34.32
AV	5.704G	107.89	Inf	-Inf	3.55	3	Vertical	283	2.91	-	104.34	32.09	5.81	34.35
PK	5.4676G	61.32	68.20	-6.88	3.11	3	Vertical	283	2.91	-	58.21	31.78	5.65	34.32
PK	5.704G	116.17	Inf	-Inf	3.55	3	Vertical	283	2.91	-	112.62	32.09	5.81	34.35
PK	5.8684G	61.12	68.20	-7.08	3.88	3	Vertical	283	2.91	-	57.24	32.32	5.93	34.37

802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5710MHz Straddle 5.47-5.725GHz\_TX



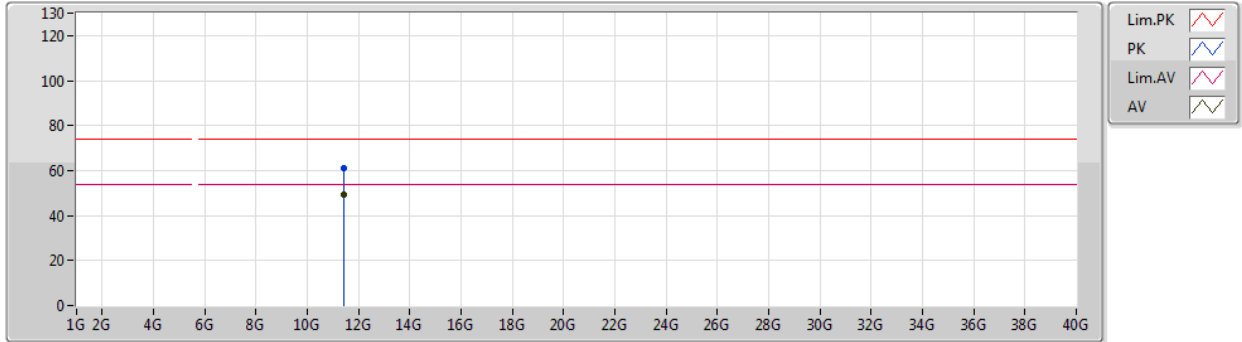
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AV	5.4532G	53.16	54.00	-0.84	3.09	3	Horizontal	311	2.11	-	50.07	31.77	5.64	34.32
AV	5.716G	111.20	Inf	-Inf	3.56	3	Horizontal	311	2.11	-	107.64	32.10	5.82	34.36
PK	5.464G	64.86	68.20	-3.34	3.10	3	Horizontal	311	2.11	-	61.76	31.78	5.64	34.32
PK	5.716G	119.76	Inf	-Inf	3.56	3	Horizontal	311	2.11	-	116.20	32.10	5.82	34.36
PK	5.8564G	63.14	68.20	-5.06	3.85	3	Horizontal	311	2.11	-	59.29	32.30	5.92	34.37



802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5710MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.42012G	49.55	54.00	-4.45	13.73	3	Vertical	333	2.00	-	35.82	40.05	8.05	34.37
PK	11.41982G	61.29	74.00	-12.71	13.73	3	Vertical	333	2.00	-	47.56	40.05	8.05	34.37

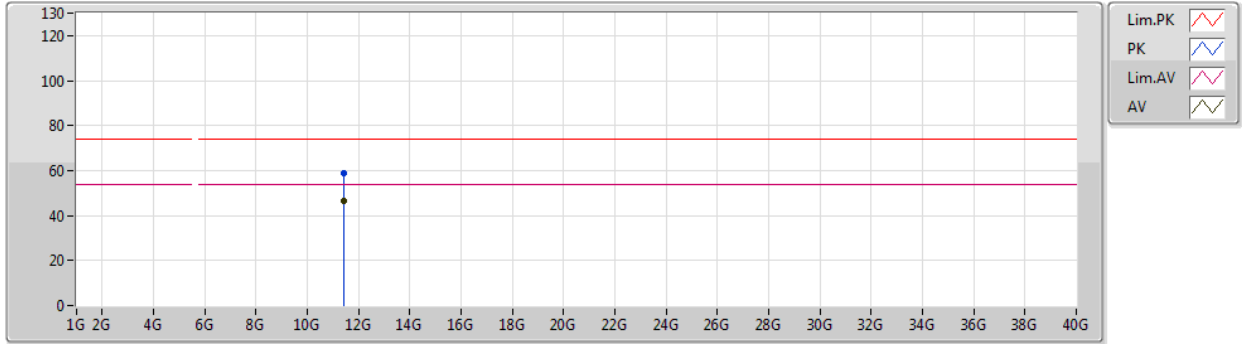




802.11ac VHT40\_Nss4,(MCS0)\_4TX

06/03/2019

5710MHz\_TX

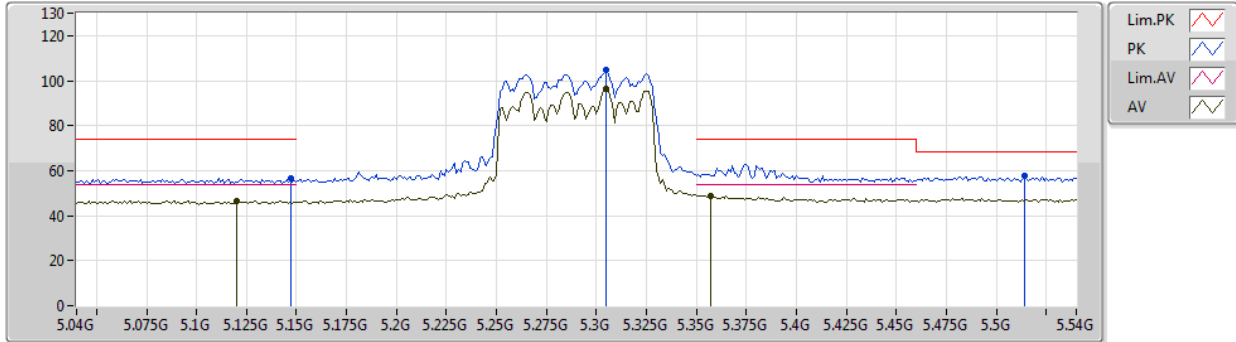


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.42168G	46.52	54.00	-7.48	13.73	3	Horizontal	261	1.50	-	32.79	40.05	8.05	34.37
PK	11.42198G	58.91	74.00	-15.09	13.73	3	Horizontal	261	1.50	-	45.18	40.05	8.05	34.37

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5290MHz\_TX

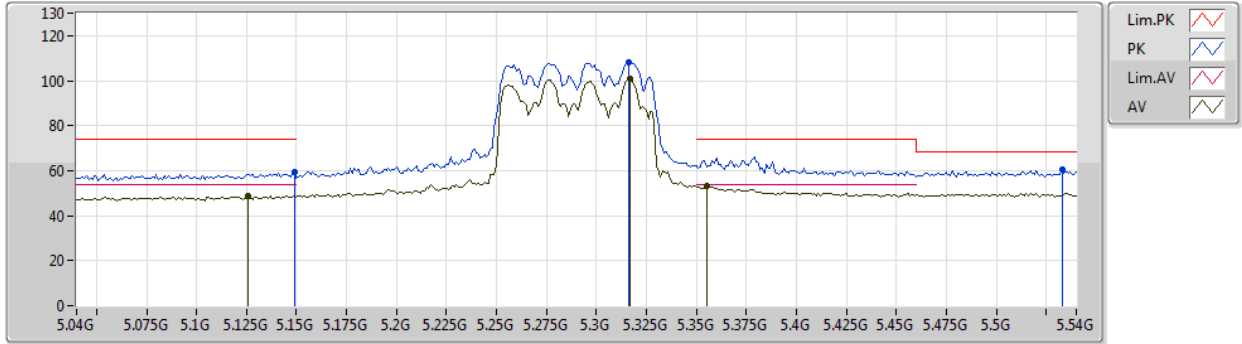


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.12G	46.63	54.00	-7.37	2.70	3	Vertical	304	2.61	-	43.93	31.57	5.40	34.27
AV	5.305G	96.44	Inf	-Inf	2.91	3	Vertical	304	2.61	-	93.53	31.68	5.53	34.30
AV	5.357G	48.97	54.00	-5.03	2.97	3	Vertical	304	2.61	-	46.00	31.71	5.57	34.31
PK	5.147G	56.55	74.00	-17.45	2.74	3	Vertical	304	2.61	-	53.81	31.59	5.42	34.27
PK	5.305G	104.79	Inf	-Inf	2.91	3	Vertical	304	2.61	-	101.88	31.68	5.53	34.30
PK	5.514G	57.45	68.20	-10.75	3.17	3	Vertical	304	2.61	-	54.28	31.82	5.68	34.33

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5290MHz\_TX



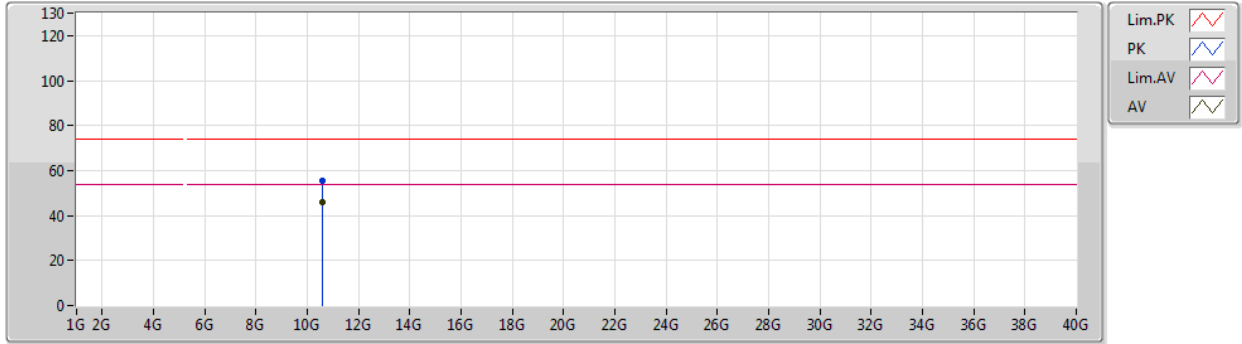
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.126G	48.78	54.00	-5.22	2.72	3	Horizontal	316	2.19	-	46.06	31.58	5.41	34.27
AV	5.317G	100.82	Inf	-Inf	2.93	3	Horizontal	316	2.19	-	97.89	31.69	5.54	34.30
AV	5.355G	53.04	54.00	-0.96	2.97	3	Horizontal	316	2.19	-	50.07	31.71	5.57	34.31
PK	5.149G	59.47	74.00	-14.53	2.74	3	Horizontal	316	2.19	-	56.73	31.59	5.42	34.27
PK	5.316G	108.31	Inf	-Inf	2.93	3	Horizontal	316	2.19	-	105.38	31.69	5.54	34.30
PK	5.533G	60.28	68.20	-7.92	3.21	3	Horizontal	316	2.19	-	57.07	31.85	5.69	34.33



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5290MHz\_TX



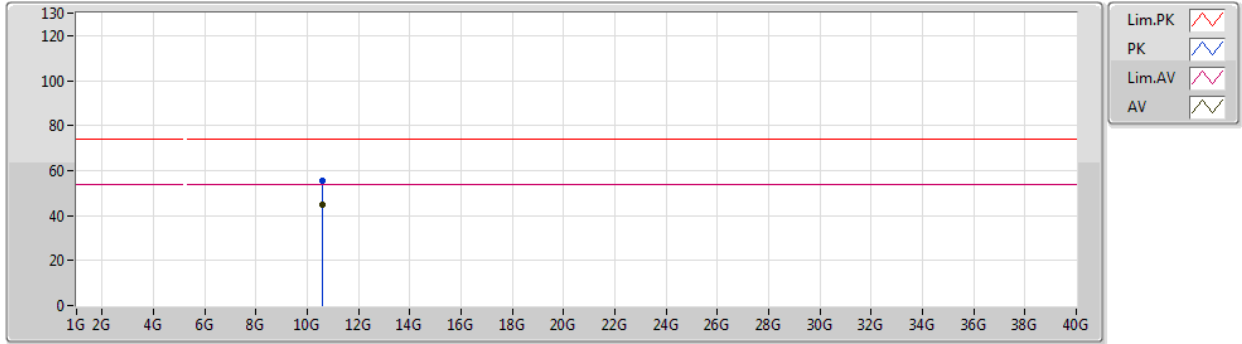
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AV	10.58012G	45.81	54.00	-8.19	13.37	3	Vertical	311	1.46	-	32.44	39.88	7.98	34.49
PK	10.5917G	55.55	74.00	-18.45	13.38	3	Vertical	311	1.46	-	42.17	39.89	7.98	34.49



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5290MHz\_TX

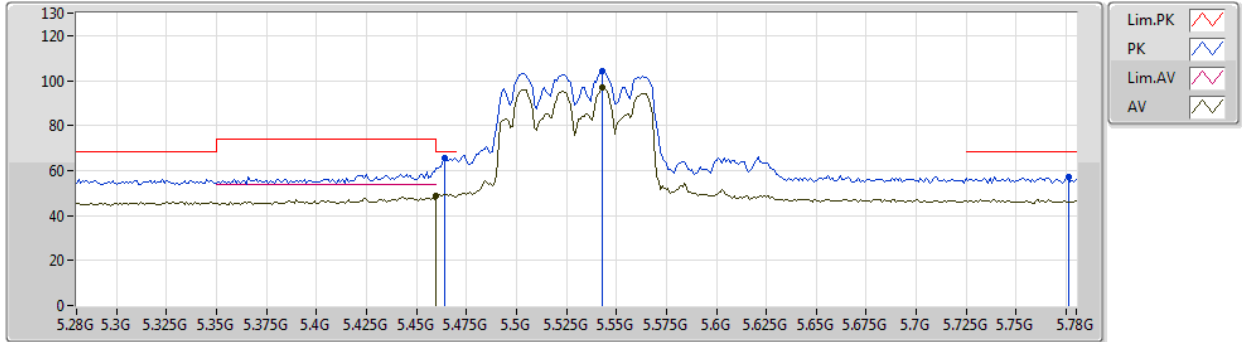


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	10.57992G	44.58	54.00	-9.42	13.37	3	Horizontal	234	1.50	-	31.21	39.88	7.98	34.49
PK	10.57984G	55.33	74.00	-18.67	13.37	3	Horizontal	234	1.50	-	41.96	39.88	7.98	34.49

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5530MHz\_TX

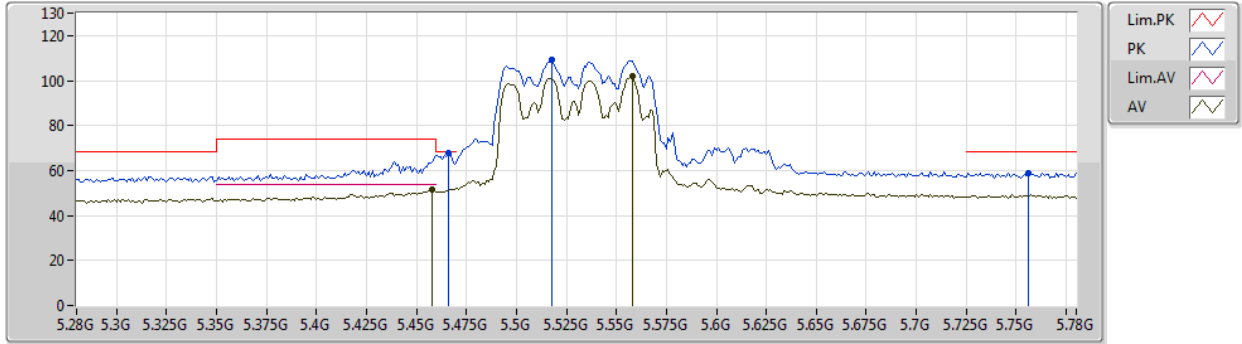


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.46G	48.55	54.00	-5.45	3.10	3	Vertical	26	1.50	-	45.45	31.78	5.64	34.32
AV	5.543G	96.81	Inf	-Inf	3.22	3	Vertical	26	1.50	-	93.59	31.86	5.70	34.34
PK	5.464G	65.78	68.20	-2.42	3.10	3	Vertical	26	1.50	-	62.68	31.78	5.64	34.32
PK	5.543G	104.01	Inf	-Inf	3.22	3	Vertical	26	1.50	-	100.79	31.86	5.70	34.34
PK	5.776G	57.42	68.20	-10.78	3.69	3	Vertical	26	1.50	-	53.73	32.19	5.86	34.36

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5530MHz\_TX



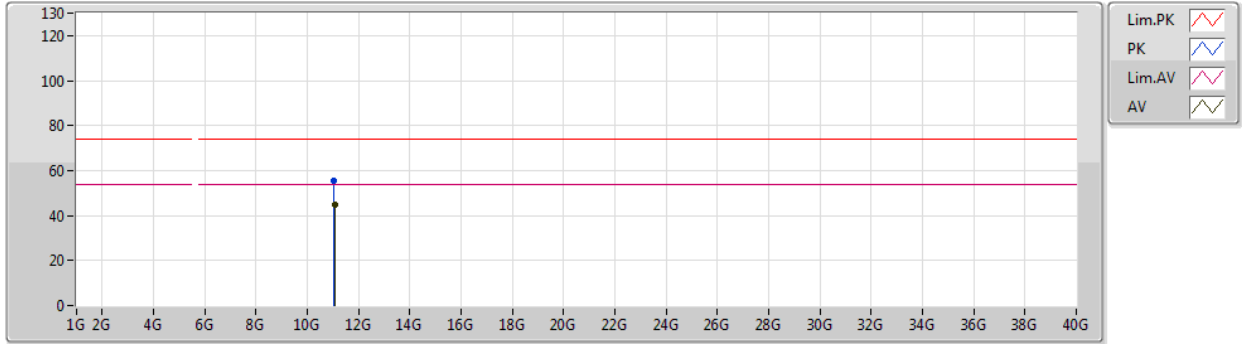
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.458G	51.32	54.00	-2.68	3.09	3	Horizontal	314	1.56	-	48.23	31.77	5.64	34.32
AV	5.558G	101.72	Inf	-Inf	3.25	3	Horizontal	314	1.56	-	98.47	31.88	5.71	34.34
PK	5.466G	67.81	68.20	-0.39	3.11	3	Horizontal	314	1.56	-	64.70	31.78	5.65	34.32
PK	5.518G	109.27	Inf	-Inf	3.18	3	Horizontal	314	1.56	-	106.09	31.83	5.68	34.33
PK	5.756G	59.10	68.20	-9.10	3.65	3	Horizontal	314	1.56	-	55.45	32.16	5.85	34.36



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5530MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.07458G	44.88	54.00	-9.12	13.92	3	Vertical	328	1.50	-	30.96	40.26	8.02	34.36
PK	11.05094G	55.55	74.00	-18.45	13.93	3	Vertical	328	1.50	-	41.62	40.27	8.02	34.36

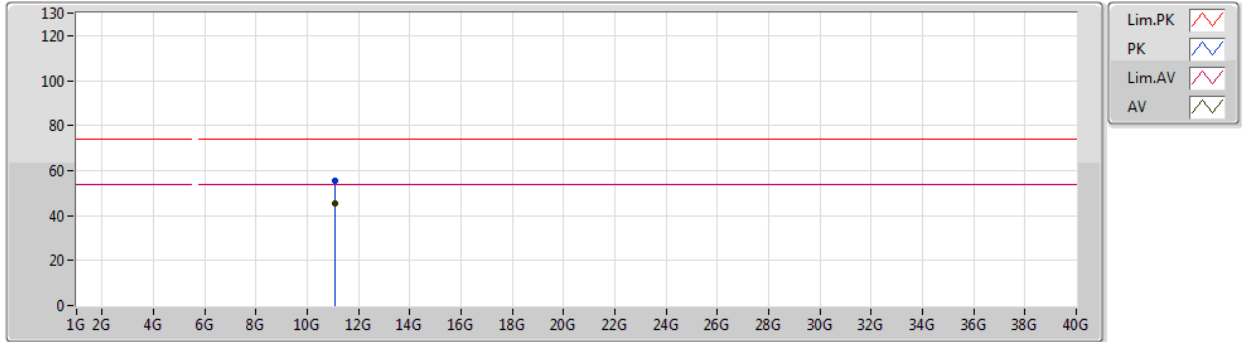




802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5530MHz\_TX

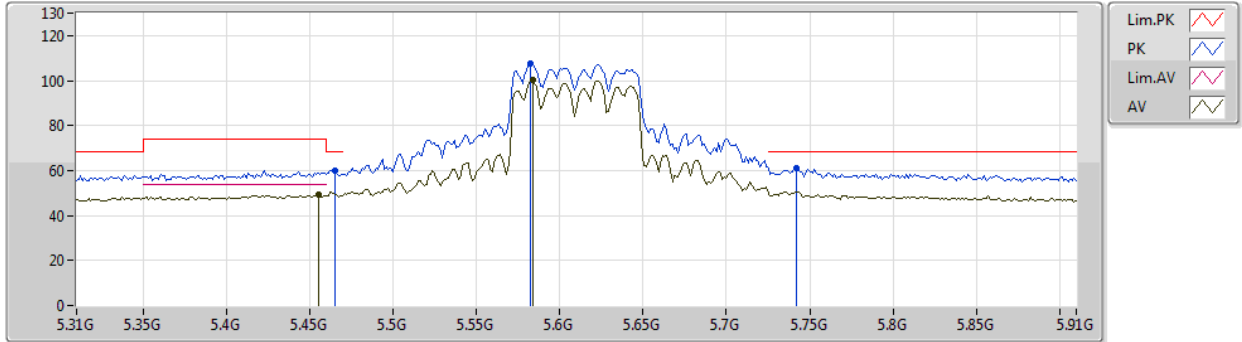


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.07098G	45.11	54.00	-8.89	13.92	3	Horizontal	318	1.44	-	31.19	40.26	8.02	34.36
PK	11.07494G	55.72	74.00	-18.28	13.92	3	Horizontal	318	1.44	-	41.80	40.26	8.02	34.36

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5610MHz\_TX

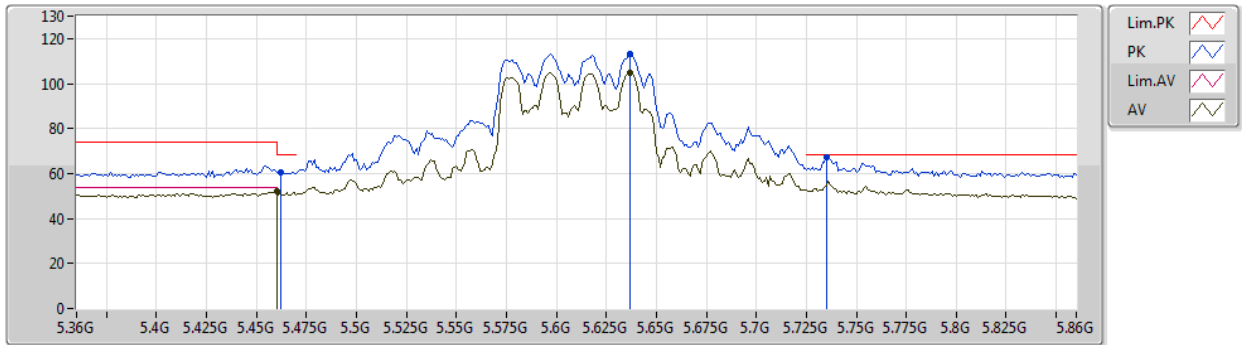


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4552G	49.23	54.00	-4.77	3.09	3	Vertical	306	1.48	-	46.14	31.77	5.64	34.32
AV	5.5836G	100.20	Inf	-Inf	3.31	3	Vertical	306	1.48	-	96.89	31.92	5.73	34.34
PK	5.4648G	60.05	68.20	-8.15	3.11	3	Vertical	306	1.48	-	56.94	31.78	5.65	34.32
PK	5.5824G	107.48	Inf	-Inf	3.31	3	Vertical	306	1.48	-	104.17	31.92	5.73	34.34
PK	5.742G	61.35	68.20	-6.85	3.62	3	Vertical	306	1.48	-	57.73	32.14	5.84	34.36

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5610MHz\_TX



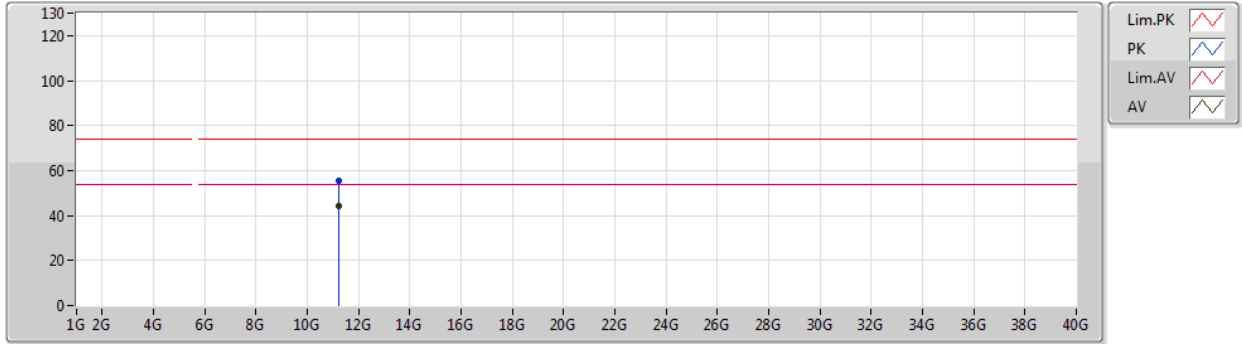
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AV	5.46G	51.94	54.00	-2.06	3.10	3	Horizontal	307	1.65	-	48.84	31.78	5.64	34.32
AV	5.637G	104.70	Inf	-Inf	3.41	3	Horizontal	307	1.65	-	101.29	31.99	5.77	34.35
PK	5.462G	60.58	68.20	-7.62	3.10	3	Horizontal	307	1.65	-	57.48	31.78	5.64	34.32
PK	5.637G	113.45	Inf	-Inf	3.41	3	Horizontal	307	1.65	-	110.04	31.99	5.77	34.35
PK	5.735G	67.43	68.20	-0.77	3.60	3	Horizontal	307	1.65	-	63.83	32.13	5.83	34.36



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5610MHz\_TX



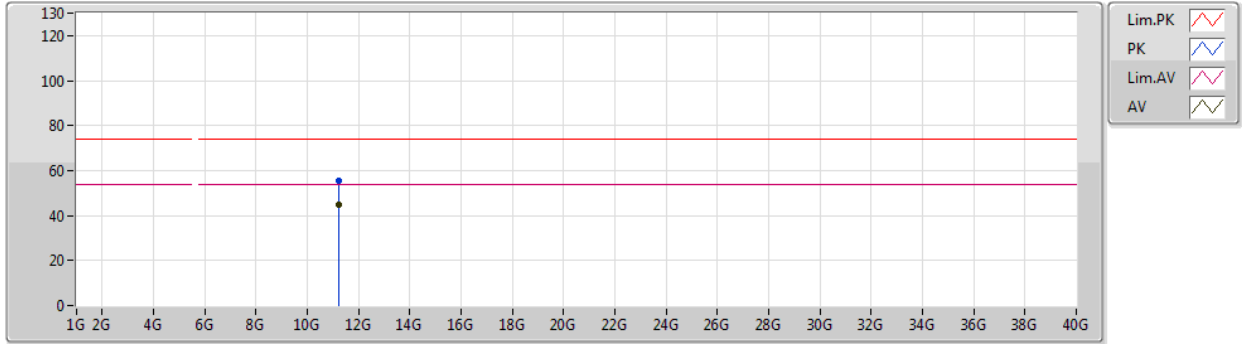
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AV	11.21772G	44.28	54.00	-9.72	13.84	3	Vertical	75	1.50	-	30.44	40.17	8.03	34.36
PK	11.21928G	55.40	74.00	-18.60	13.84	3	Vertical	75	1.50	-	41.56	40.17	8.03	34.36



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5610MHz\_TX



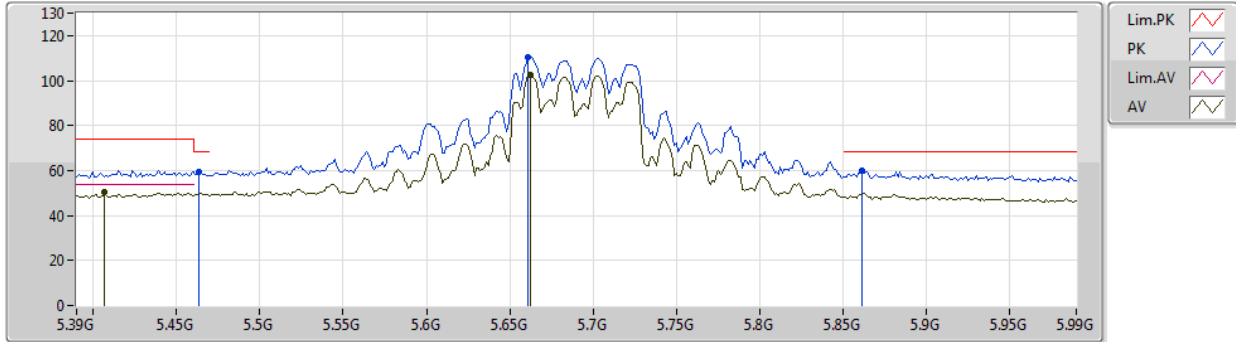
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AV	11.21868G	44.56	54.00	-9.44	13.84	3	Horizontal	63	1.50	-	30.72	40.17	8.03	34.36
PK	11.2194G	55.72	74.00	-18.28	13.84	3	Horizontal	63	1.50	-	41.88	40.17	8.03	34.36



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5690MHz Straddle 5.47-5.725GHz\_TX

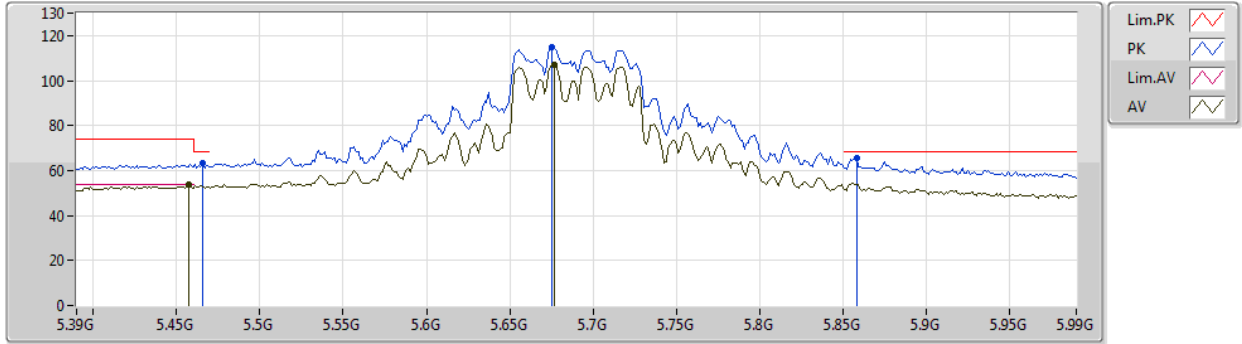


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4068G	50.17	54.00	-3.83	3.02	3	Vertical	30	1.50	-	47.15	31.74	5.60	34.32
AV	5.6624G	102.78	Inf	-Inf	3.46	3	Vertical	30	1.50	-	99.32	32.03	5.78	34.35
PK	5.4632G	59.50	68.20	-8.70	3.10	3	Vertical	30	1.50	-	56.40	31.78	5.64	34.32
PK	5.6612G	110.41	Inf	-Inf	3.46	3	Vertical	30	1.50	-	106.95	32.03	5.78	34.35
PK	5.8616G	60.11	68.20	-8.09	3.86	3	Vertical	30	1.50	-	56.25	32.31	5.92	34.37

802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5690MHz Straddle 5.47-5.725GHz\_TX



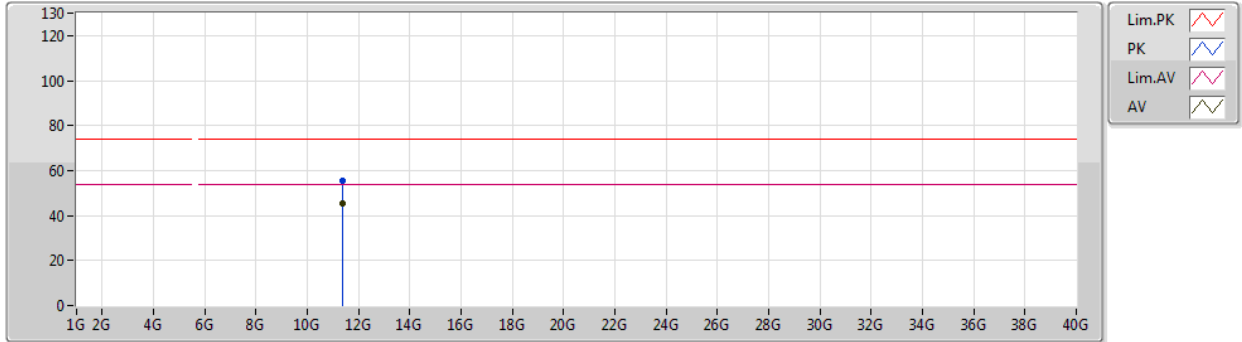
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4572G	53.71	54.00	-0.29	3.09	3	Horizontal	315	1.47	-	50.62	31.77	5.64	34.32
AV	5.6768G	107.19	Inf	-Inf	3.49	3	Horizontal	315	1.47	-	103.70	32.05	5.79	34.35
PK	5.4656G	63.32	68.20	-4.88	3.11	3	Horizontal	315	1.47	-	60.21	31.78	5.65	34.32
PK	5.6756G	114.86	Inf	-Inf	3.49	3	Horizontal	315	1.47	-	111.37	32.05	5.79	34.35
PK	5.858G	65.47	68.20	-2.73	3.85	3	Horizontal	315	1.47	-	61.62	32.30	5.92	34.37



802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5690MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.39158G	45.44	54.00	-8.56	13.74	3	Vertical	329	1.37	-	31.70	40.07	8.04	34.37
PK	11.3896G	55.57	74.00	-18.43	13.74	3	Vertical	329	1.37	-	41.83	40.07	8.04	34.37

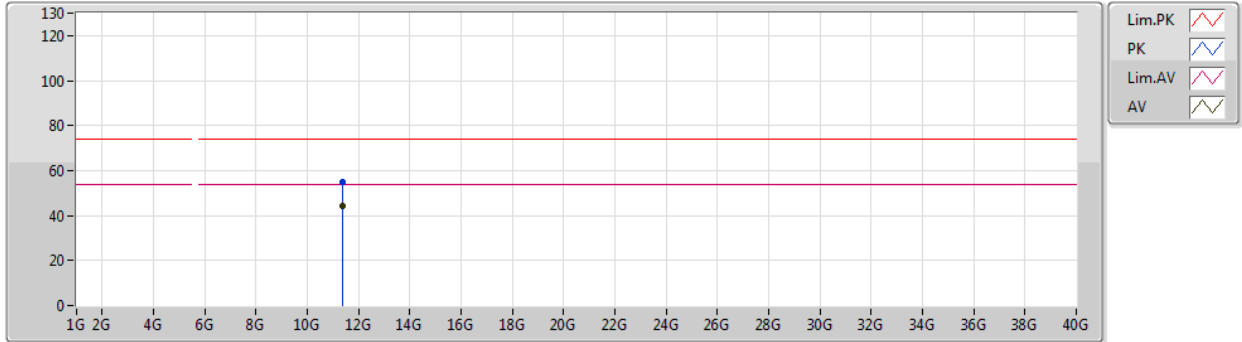




802.11ac VHT80\_Nss4,(MCS0)\_4TX

06/03/2019

5690MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.38084G	44.13	54.00	-9.87	13.74	3	Horizontal	191	1.86	-	30.39	40.07	8.04	34.37
PK	11.38096G	54.80	74.00	-19.20	13.74	3	Horizontal	191	1.86	-	41.06	40.07	8.04	34.37