FCC Test Report

Equipment	:	**Wireless 802.11 a/ac+b/g/n PCBA module**
Brand Name	:	**Extreme Networks**
Model No.	:	**AP3917k/AP7662k**
FCC ID	:	**QXO-AP3917K**
Standard	:	**47 CFR FCC Part 15.407**
Operating Band	:	**5150 MHz – 5250 MHz** **5725 MHz – 5850 MHz**
Applicant	:	**Extreme Networks, Inc.** **6480 Via Del Oro San Jose CA 95119 United States Of America**
Manufacturer	:	**Senao Networks, Inc.** **3F, No. 529, Chung Cheng Rd. Hsintien Taipei Taiwan**
Function	:	**☒ Outdoor; ☐ Indoor; ☐ Fixed P2P** **☐ Client**
TPC Function	:	**TPC**

The product sample received on Sep. 21, 2017 and completely tested on Oct. 07, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Phoenix Chen / Assistant Manager

Testing Laboratory 1190

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Summary of Test Result

Conformance Test Specifications			
Report Clause	**Ref. Std. Clause**	**Description**	**Result**
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied

Revision History

Report No.	Version	Description	Issued Date
FR780809AO	Rev. 01	Initial issue of report	Oct. 31, 2017

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ac VHT20	20	2TX
5.725-5.85GHz	802.11ac VHT20	20	2TX
5.15-5.25GHz	802.11ac VHT40	40	2TX
5.725-5.85GHz	802.11ac VHT40	40	2TX
5.15-5.25GHz	802.11ac VHT80	80	2TX
5.725-5.85GHz	802.11ac VHT80	80	2TX

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	-	-	Omni	I-PEX	7.75
2	2	-	-	Omni	I-PEX	7.75

Note. Elevation angle above 30° Max gain (dBi): -6.05

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
Note: Only conducted power was measured for BF mode and the non-BF was worse than BF, therefore only the non-BF was full evaluated.				

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.955	0.2	2.065m	1k
802.11ac VHT20	0.977	0.101	5.013m	300
802.11ac VHT40	0.969	0.137	2.437m	1k
802.11ac VHT80	0.936	0.287	1.149m	1k

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 v01r04
- KDB 644545 D03 v01
- KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location			
☒	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.			
☐	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	Ryan Hsiao	24.6°C / 65%	07/Oct/2017
Radiated	03CH02-HY	Lynus Tsai	23.3°C / 57%	29/Sep/2017
AC Conduction	CO04-HY	Eric lee	24.8°C / 61.2%	04/Oct/2017

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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)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	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
Freq. Stability	Abbreviation	Remark
-40°C	-	-
-30°C	-	-
-20°C	-	-
-10°C	-	-
0°C	-	-
10°C	-	-
20°C	-	-
30°C	-	-
40°C	-	-
50°C	-	-
60°C	-	-
70°C	-	-
138V	-	-
120V	-	-
102V	-	-

2.2 Test Channel Mode

Test Software Version	QRCT 3.0.174.0

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	20
5200MHz	22
5240MHz	22
5745MHz	24
5785MHz	23
5825MHz	23.5
802.11ac VHT20_Nss1,(MCS0)_2TX	-
5180MHz	20.5
5200MHz	22
5240MHz	22
5745MHz	24
5785MHz	24
5825MHz	23.5
802.11ac VHT40_Nss1,(MCS0)_2TX	-
5190MHz	16.5
5230MHz	21.5
5755MHz	24
5795MHz	24
802.11ac VHT80_Nss1,(MCS0)_2TX	-
5210MHz	15.5
5775MHz	22

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	PoE mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	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.		
Operating Mode < 1GHz	CTX		
1	PoE mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
2	Zigbee+WLAN 2.4GHz+WLAN 5GHz
3	Bluetooth+WLAN 2.4GHz+4.9G
4	Zigbee+WLAN 2.4GHz+4.9G
Refer to Sporton Test Report No.: FA780809 for Co-location RF Exposure Evaluation.	

2.4 Support Equipment

Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	PoE	EnGenius	EPA5006GP	-
4	AC Source	G.W	APS-9102	-

Note: Support equipment No.3 was provided by customer.

Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	PoE	EnGenius	EPA5006GP	-

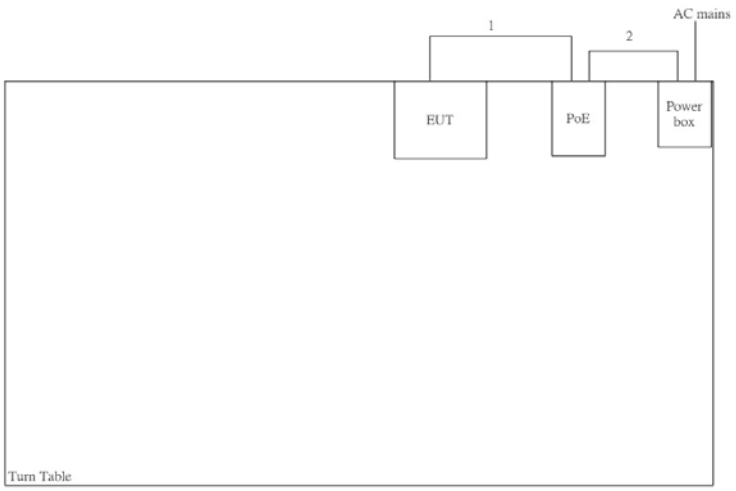
Note: Support equipment No.1 was provided by customer.

Support Equipment – AC Conduction				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	PoE	EnGenius	EPA5006GP	-

Note: Support equipment No.1 was provided by customer.

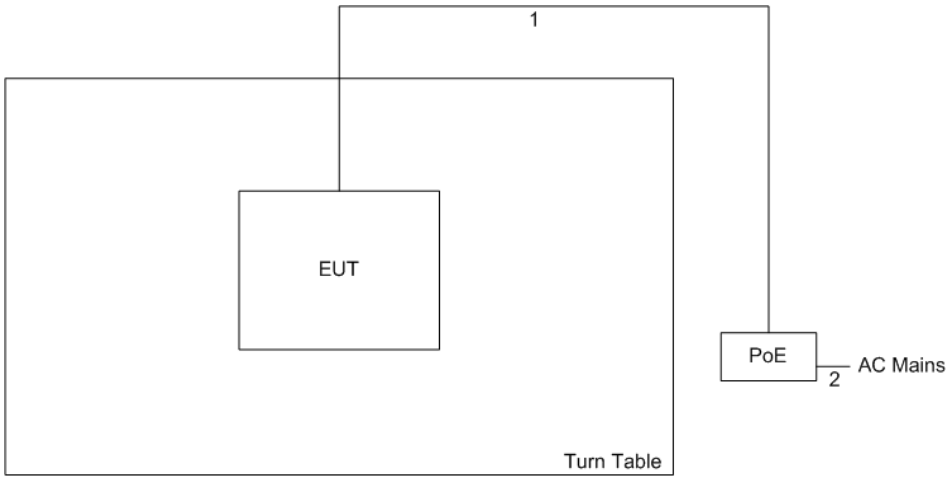
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	RJ-45 cable	No	3m
2	AC power line	No	0.5m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	RJ45 cable	No	10m
2	AC Power line	No	0.5m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

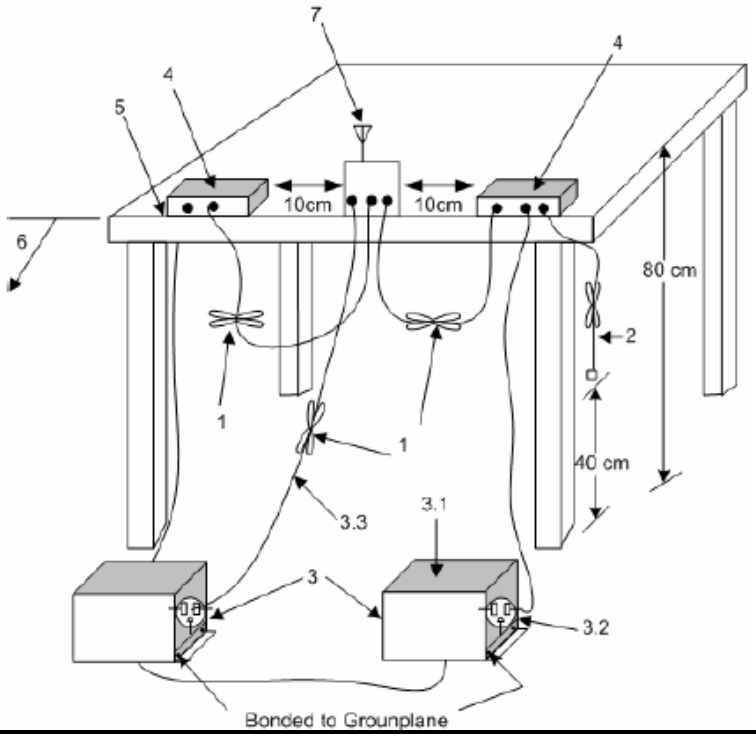
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

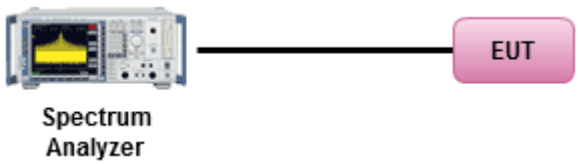
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method		
▪	For the emission bandwidth shall be measured using one of the options below:	
	☒	Refer as KDB 789033, clause C for EBW and clause D for OBW measurement.
	☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.
	☐	Refer as IC RSS-Gen, clause 6.6 for bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm]
	▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W If G_{TX} > 23 dBi, then P_{Out} = 30 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Conducted Output Power	
	Duty cycle ≥ 98%
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ 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
	☒ Refer as KDB 789033, clause E Method PM (using an RF average power meter).
▪ For conducted measurement.	
	▪ 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.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

RF Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C.1~C.2

3.3.6 Test Result of Max E.I.R.P at any elevation angle above 30 degrees

Refer as Appendix C.3

3.4 Peak Power Spectral Density

3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 23 dBi, then P_{Out} = 17 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6)..
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = 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 **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

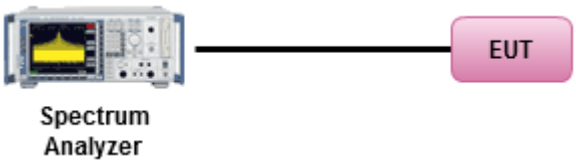
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ 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:		
	☐ 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%	
	☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
	Duty cycle < 98%	
	☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
▪ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		▪ 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.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 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).	

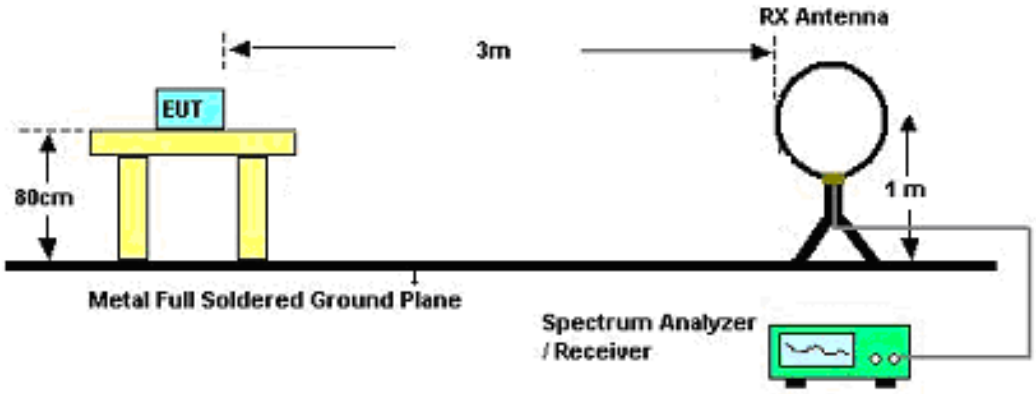
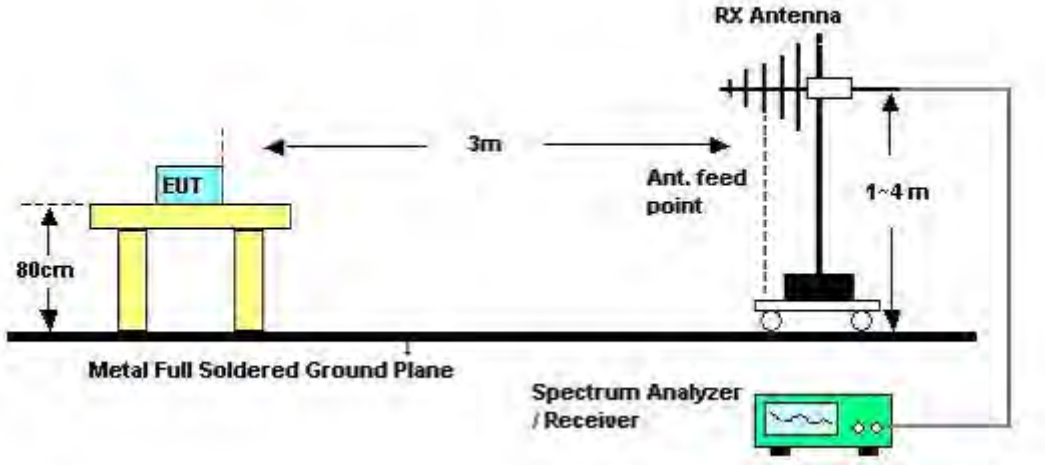
3.5.2 Measuring Instruments

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

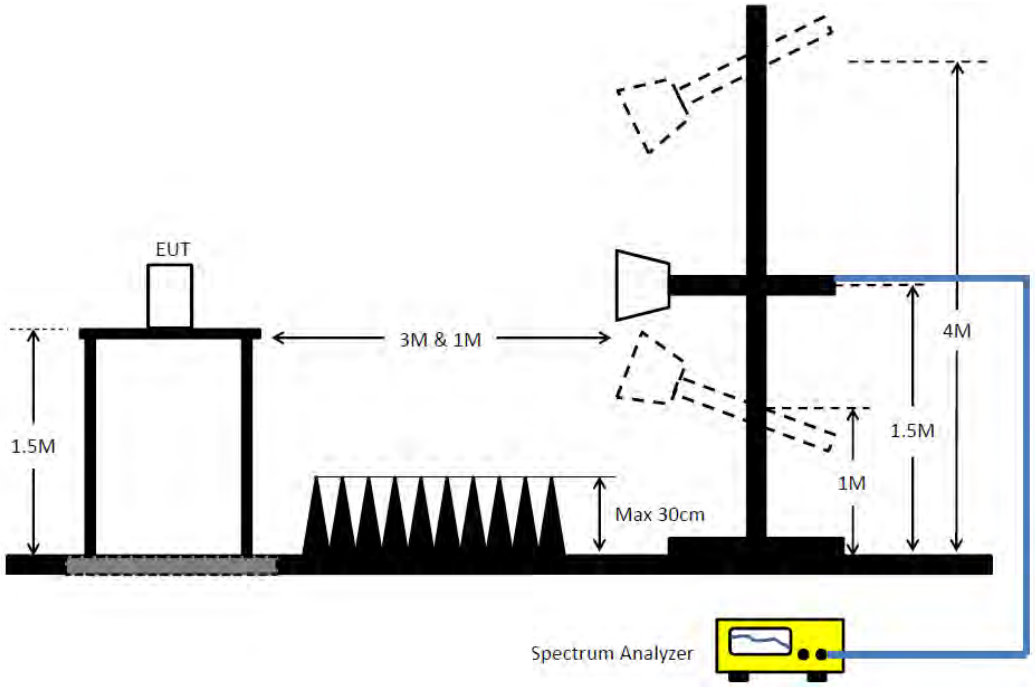
3.5.3 Test Procedures

Test Method
▪ 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).
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
▪ For the transmitter unwanted emissions shall be measured using following options below:
▪ Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
▪ Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒ Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒ Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
▪ For radiated measurement.
▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
▪ The any unwanted emissions level shall not exceed the fundamental emission level.
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

3.6 Frequency Stability

3.6.1 Frequency Stability Limit

Frequency Stability Limit
UNII Devices
▪ In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
IEEE Std. 802.11
▪ The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band.

3.6.2 Measuring Instruments

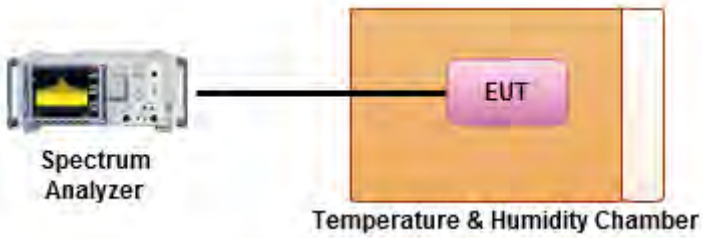
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method		
▪	Refer as ANSI C63.10, clause 6.8 for frequency stability tests	
	▪	Frequency stability with respect to ambient temperature
	▪	Frequency stability when varying supply voltage

3.6.4 Test Setup

Frequency Stability



3.6.5 Test Result of Frequency Stability

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100921	10 kHz ~ 30 MHz	21/Oct/2016	20/Oct/2017

NCR : Non-Calibration Require

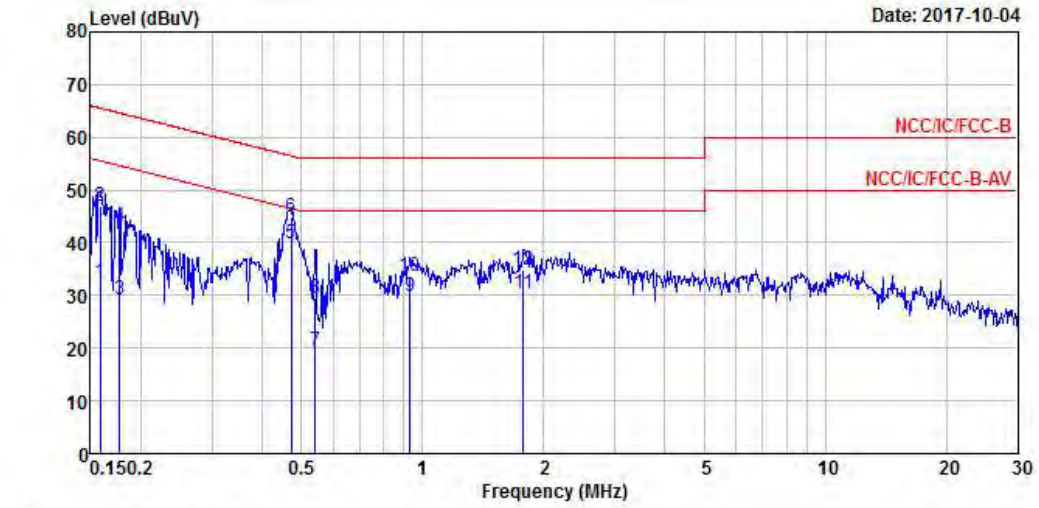
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	21/Oct/2016	20/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	28/Jun/2018
Amplifier	Ketsight	83017A	MY53270197	1GHz-26.5GHz	19/Sep/2017	18/Sep/2018
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	11/May/2017	10/May/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz-40GHz	06/Feb/2017	05/Feb/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	09/Sep/2017	08/Sep/2018
Amplifier	MITEQ	JS44-18004000 -33-8P	1840917	18GHz-40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	TESEQ	HLA 6120	31244	9KHz-30MHz	02/Mar/2017	01/Mar/2018
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018
Receiver	R&S	ESU3	102052	9kHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz~26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz~26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100℃	10/May/2017	09/May/2018
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12582/4	30MHz~26.5GHz	25/Aug/2017	24/Aug/2018

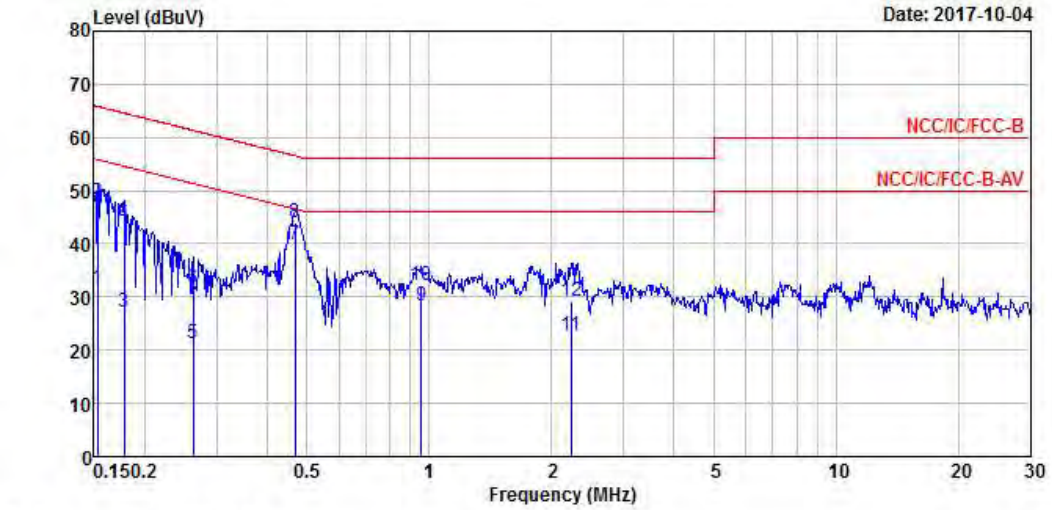
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	PoE mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15816	32.33	-23.23	55.56	22.49	9.61	0.23	Average
2	0.15816	46.98	-18.58	65.56	37.14	9.61	0.23	QP
3	0.17678	29.31	-25.33	54.64	19.41	9.64	0.26	Average
4	0.17678	43.13	-21.51	64.64	33.23	9.64	0.26	QP
5 MAX	0.47110	39.81	-6.68	46.49	30.09	9.62	0.10	Average
6	0.47110	44.85	-11.64	56.49	35.13	9.62	0.10	QP
7	0.54068	19.57	-26.43	46.00	9.85	9.62	0.10	Average
8	0.54068	29.41	-26.59	56.00	19.69	9.62	0.10	QP
9	0.93314	29.87	-16.13	46.00	20.18	9.59	0.10	Average
10	0.93314	33.78	-22.22	56.00	24.09	9.59	0.10	QP
11	1.78103	30.29	-15.71	46.00	20.38	9.64	0.27	Average
12	1.78103	34.70	-21.30	56.00	24.79	9.64	0.27	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	PoE mode		



		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.15321	31.63	-24.19	55.82	21.75	9.66	0.22	Average
2		0.15321	47.95	-17.87	65.82	38.07	9.66	0.22	QP
3		0.17772	27.10	-27.49	54.59	17.18	9.65	0.27	Average
4		0.17772	43.74	-20.85	64.59	33.82	9.65	0.27	QP
5		0.26303	21.37	-29.97	51.34	11.49	9.66	0.22	Average
6		0.26303	31.57	-29.77	61.34	21.69	9.66	0.22	QP
7	MAX	0.46861	39.72	-6.82	46.54	29.95	9.67	0.10	Average
8		0.46861	44.10	-12.44	56.54	34.33	9.67	0.10	QP
9		0.95819	28.37	-17.63	46.00	18.64	9.63	0.10	Average
10		0.95819	32.28	-23.72	56.00	22.55	9.63	0.10	QP
11		2.23675	22.66	-23.34	46.00	12.60	9.79	0.27	Average
12		2.23675	29.32	-26.68	56.00	19.26	9.79	0.27	QP

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.85M	16.442M	16M4D1D	19M	16.392M
802.11ac VHT20_Nss1,(MCS0)_2TX	25.45M	17.691M	17M7D1D	19.925M	17.616M
802.11ac VHT40_Nss1,(MCS0)_2TX	40.05M	35.982M	36M0D1D	39.45M	35.982M
802.11ac VHT80_Nss1,(MCS0)_2TX	83.3M	75.762M	75M8D1D	83.1M	75.762M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.35M	16.542M	16M5D1D	16.325M	16.467M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.575M	17.791M	17M8D1D	17.55M	17.666M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.45M	36.432M	36M4D1D	34.1M	36.082M
802.11ac VHT80_Nss1,(MCS0)_2TX	76.1M	75.862M	75M9D1D	74.4M	75.662M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

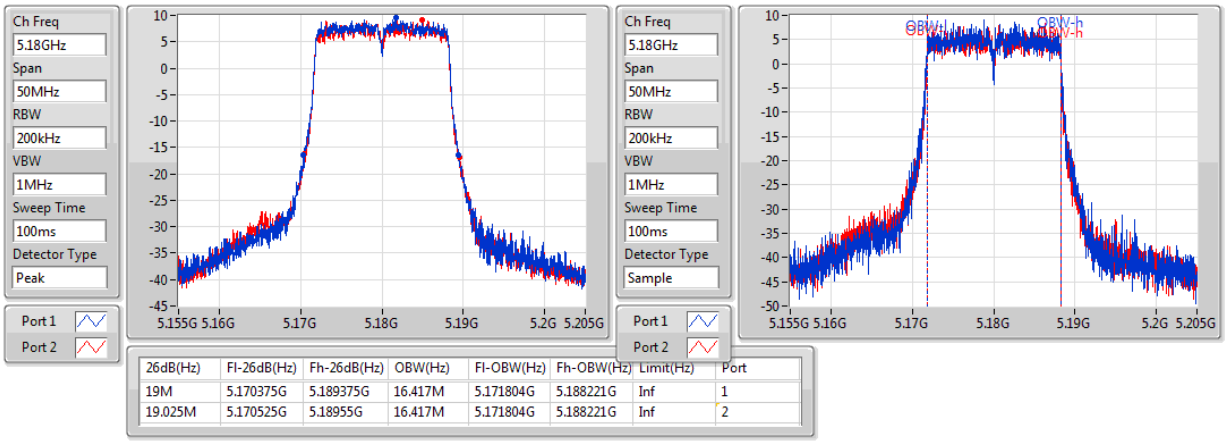
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19M	16.417M	19.025M	16.417M
5200MHz	Pass	Inf	19.7M	16.442M	19.375M	16.392M
5240MHz	Pass	Inf	20.85M	16.392M	19.475M	16.442M
5745MHz	Pass	500k	16.35M	16.467M	16.35M	16.542M
5785MHz	Pass	500k	16.325M	16.467M	16.325M	16.492M
5825MHz	Pass	500k	16.325M	16.517M	16.35M	16.517M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.925M	17.616M	20.3M	17.616M
5200MHz	Pass	Inf	22.7M	17.691M	25.45M	17.641M
5240MHz	Pass	Inf	22.8M	17.691M	20.65M	17.641M
5745MHz	Pass	500k	17.55M	17.666M	17.575M	17.791M
5785MHz	Pass	500k	17.575M	17.666M	17.575M	17.741M
5825MHz	Pass	500k	17.55M	17.691M	17.55M	17.716M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.45M	35.982M	39.45M	35.982M
5230MHz	Pass	Inf	39.7M	35.982M	40.05M	35.982M
5755MHz	Pass	500k	35.35M	36.082M	34.1M	36.182M
5795MHz	Pass	500k	35.45M	36.282M	35.35M	36.432M
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	83.1M	75.762M	83.3M	75.762M
5775MHz	Pass	500k	76.1M	75.862M	74.4M	75.662M

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

802.11a_Nss1,(6Mbps)_2TX EBW

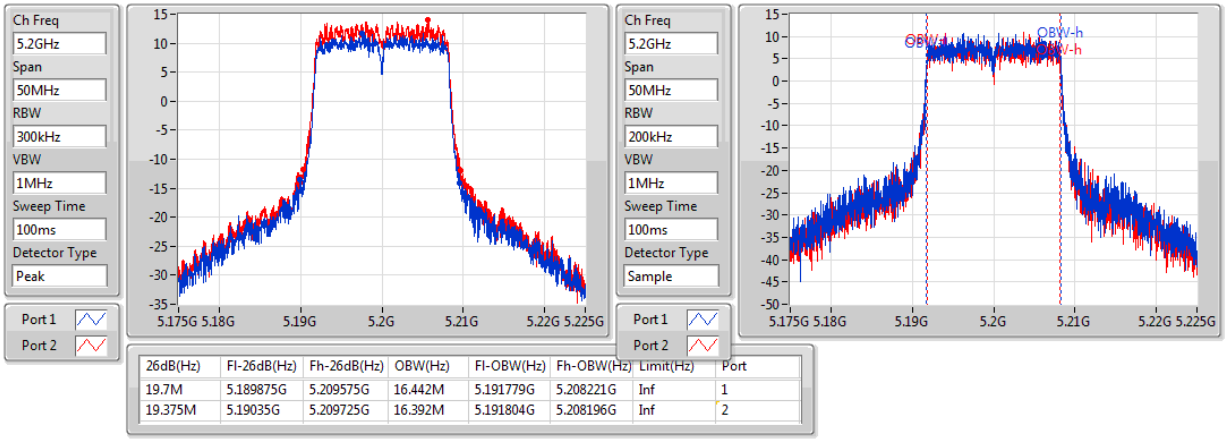
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19M	5.170375G	5.189375G	16.417M	5.171804G	5.188221G	Inf	1
19.025M	5.170525G	5.18955G	16.417M	5.171804G	5.188221G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

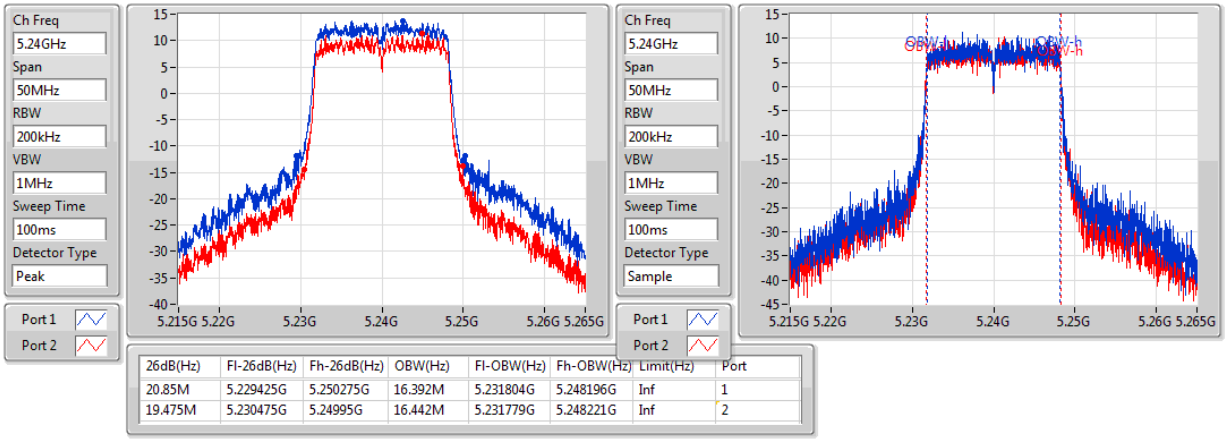
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.7M	5.189875G	5.209575G	16.442M	5.191779G	5.208221G	Inf	1
19.375M	5.19035G	5.209725G	16.392M	5.191804G	5.208196G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

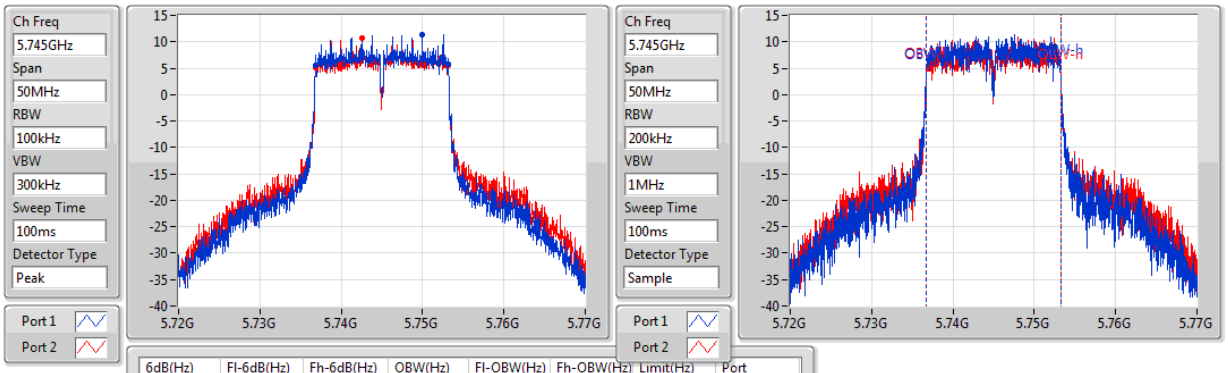
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.85M	5.229425G	5.250275G	16.392M	5.231804G	5.248196G	Inf	1
19.475M	5.230475G	5.24995G	16.442M	5.231779G	5.248221G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

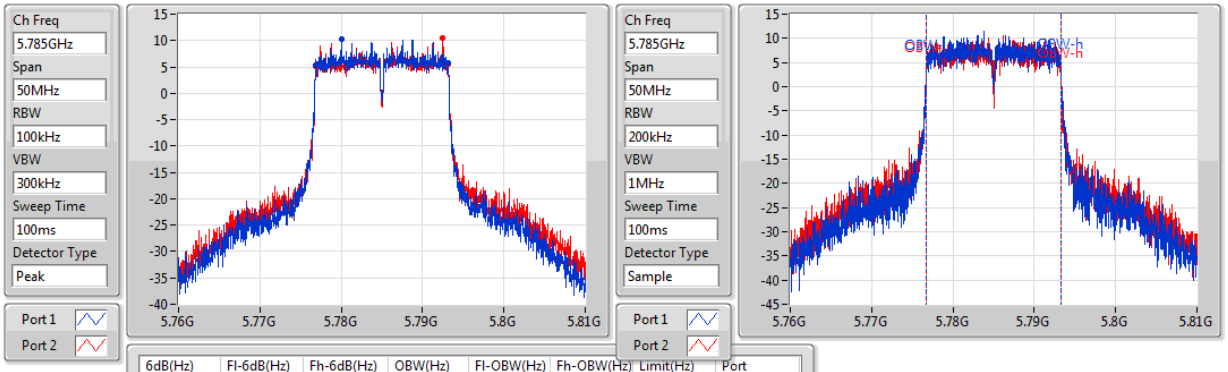
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	5.736825G	5.753175G	16.467M	5.736754G	5.753221G	500k	1
16.35M	5.736825G	5.753175G	16.542M	5.736754G	5.753296G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

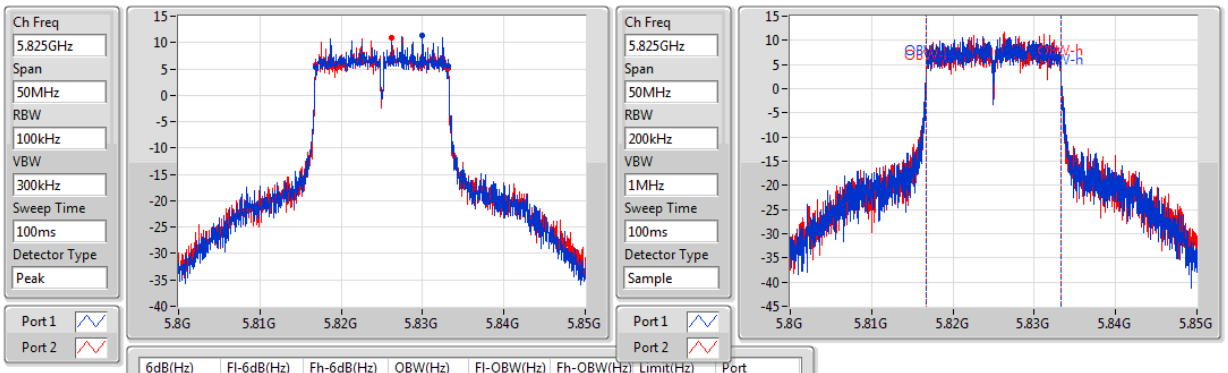
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.77685G	5.793175G	16.467M	5.776779G	5.793246G	500k	1
16.325M	5.77685G	5.793175G	16.492M	5.776754G	5.793246G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

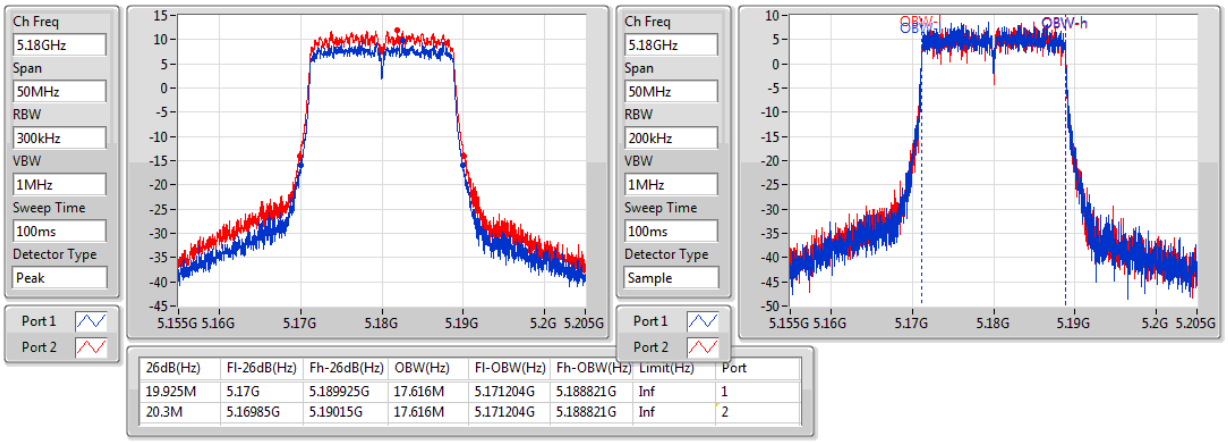
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	5.81685G	5.833175G	16.517M	5.816754G	5.833271G	500k	1
16.35M	5.816825G	5.833175G	16.517M	5.816729G	5.833246G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

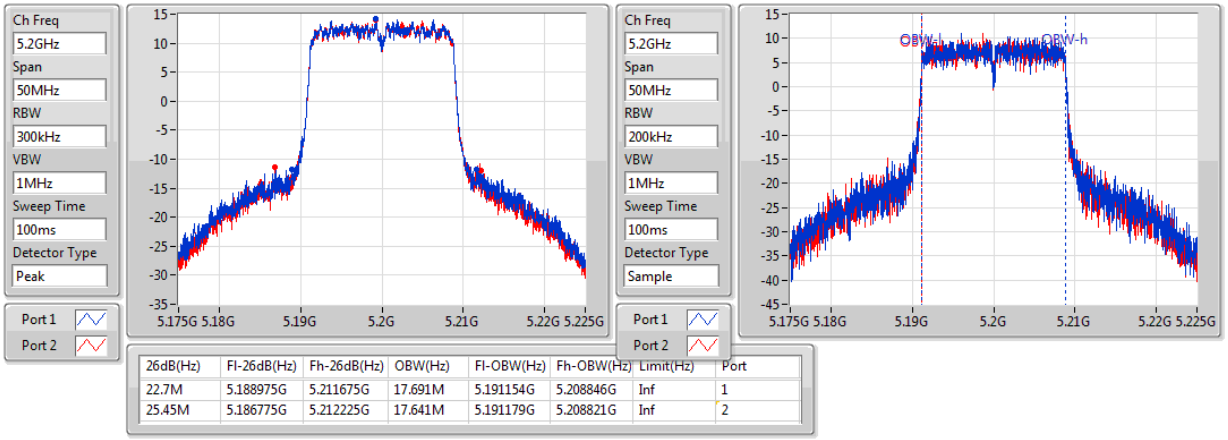
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.925M	5.17G	5.189925G	17.616M	5.171204G	5.188821G	Inf	1
20.3M	5.16985G	5.19015G	17.616M	5.171204G	5.188821G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

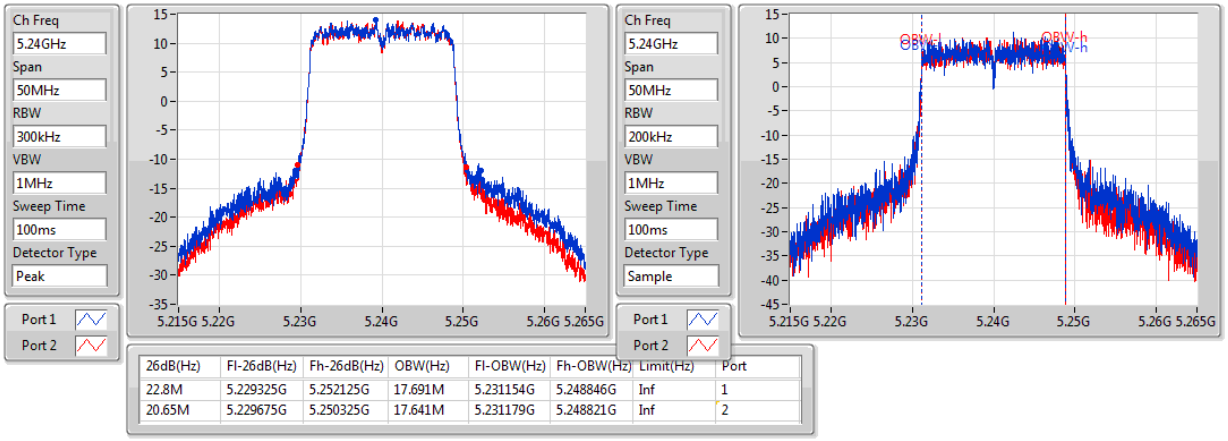
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.7M	5.188975G	5.211675G	17.691M	5.191154G	5.208846G	Inf	1
25.45M	5.186775G	5.212225G	17.641M	5.191179G	5.208821G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX EBW

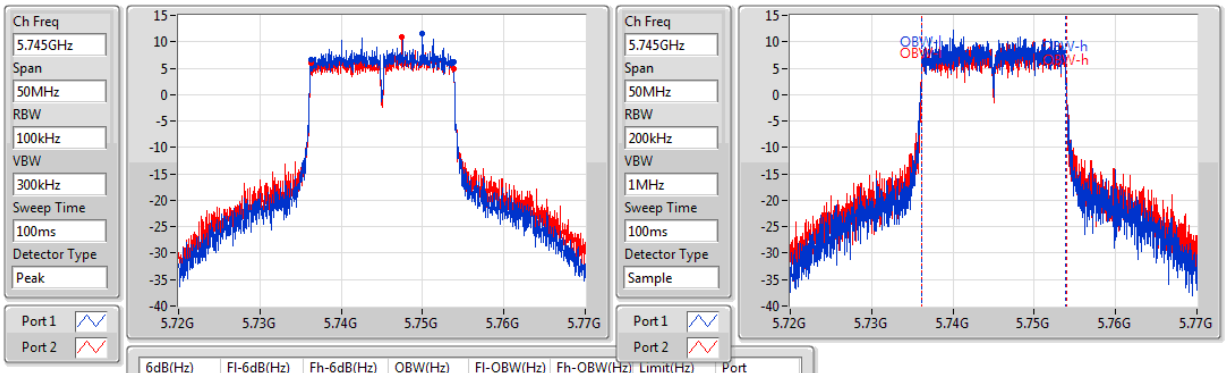
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.8M	5.229325G	5.252125G	17.691M	5.231154G	5.248846G	Inf	1
20.65M	5.229675G	5.250325G	17.641M	5.231179G	5.248821G	Inf	2

802.11ac VHT20_Nss1,(MCS0)_2TX **EBW**

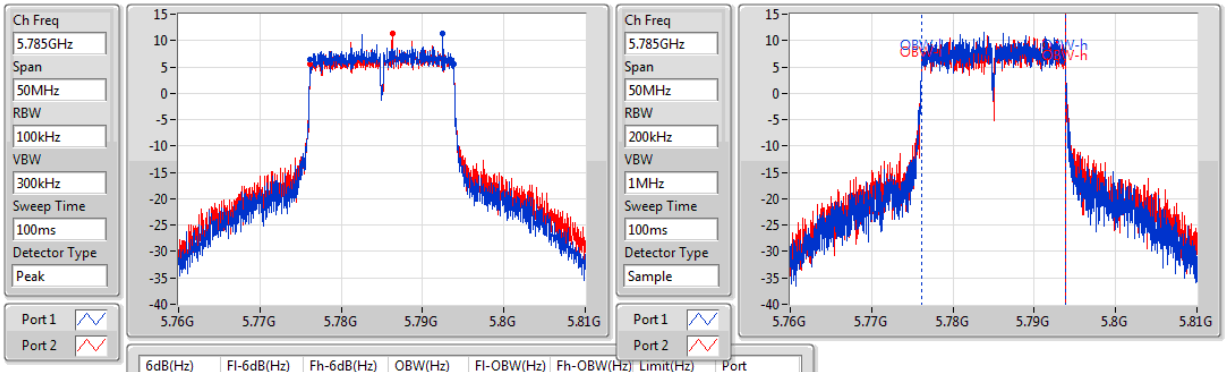
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.73625G	5.7538G	17.666M	5.736179G	5.753846G	500k	1
17.575M	5.73625G	5.753825G	17.791M	5.736129G	5.753921G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX **EBW**

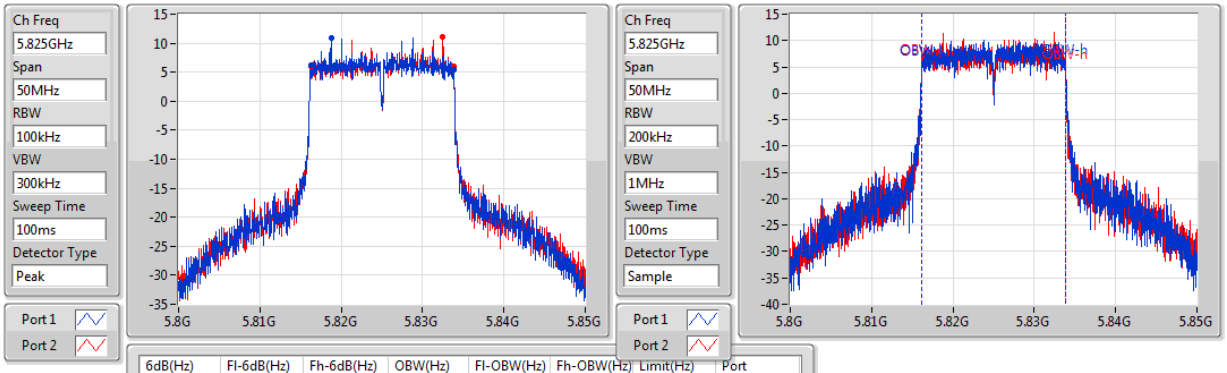
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	5.776225G	5.7938G	17.666M	5.776154G	5.793821G	500k	1
17.575M	5.776225G	5.7938G	17.741M	5.776129G	5.793871G	500k	2

802.11ac VHT20_Nss1,(MCS0)_2TX **EBW**

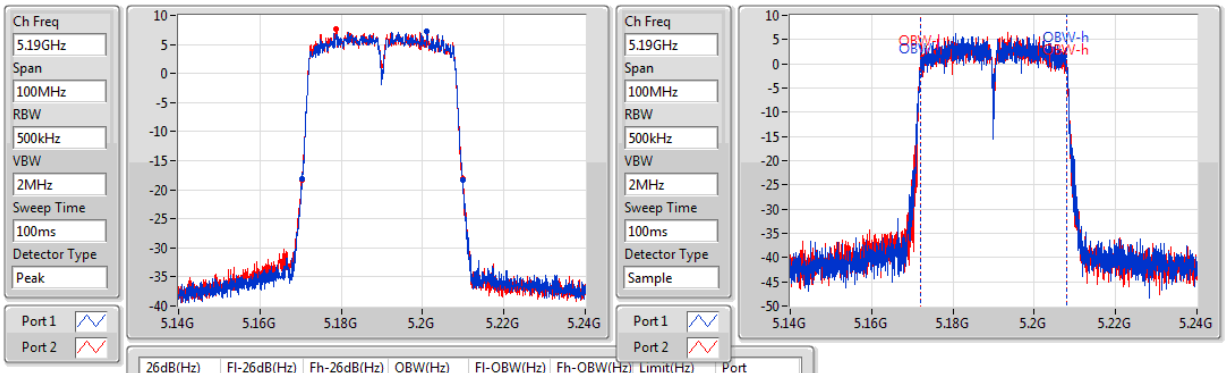
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	5.81625G	5.8338G	17.691M	5.816179G	5.833871G	500k	1
17.55M	5.81625G	5.8338G	17.716M	5.816154G	5.833871G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

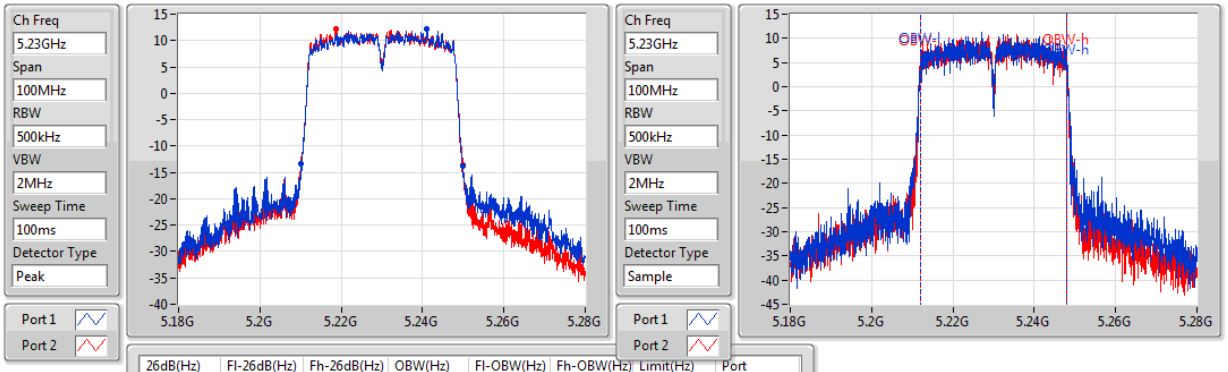
5190MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.45M	5.1704G	5.20985G	35.982M	5.172009G	5.207991G	Inf	1
39.45M	5.17035G	5.2098G	35.982M	5.172009G	5.207991G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

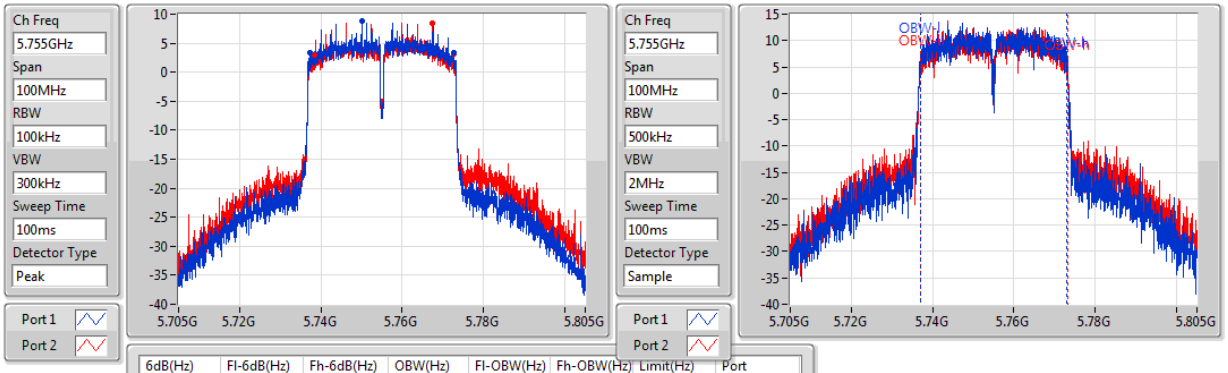
5230MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.7M	5.2102G	5.2499G	35.982M	5.212009G	5.247991G	Inf	1
40.05M	5.21G	5.25005G	35.982M	5.212009G	5.247991G	Inf	2

802.11ac VHT40_Nss1,(MCS0)_2TX EBW

5755MHz

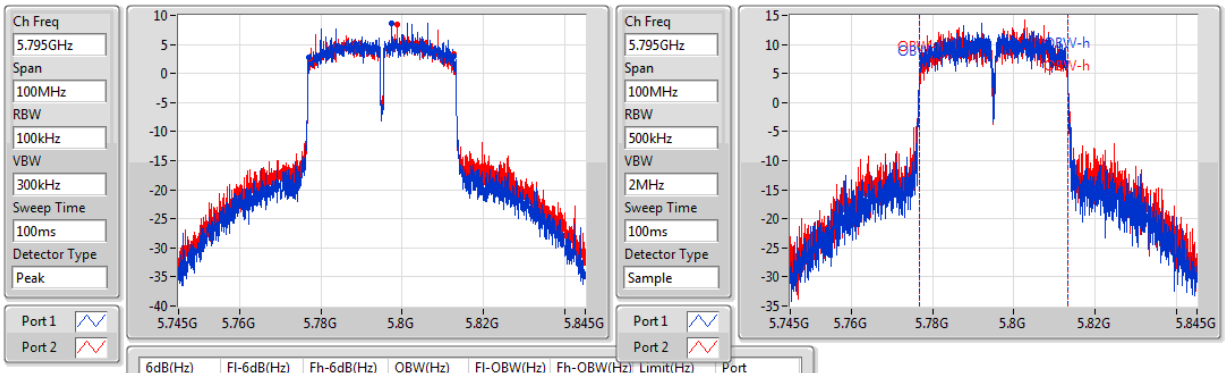


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.35M	5.73725G	5.7726G	36.082M	5.736959G	5.773041G	500k	1
34.1M	5.7385G	5.7726G	36.182M	5.736959G	5.773141G	500k	2

802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

5795MHz

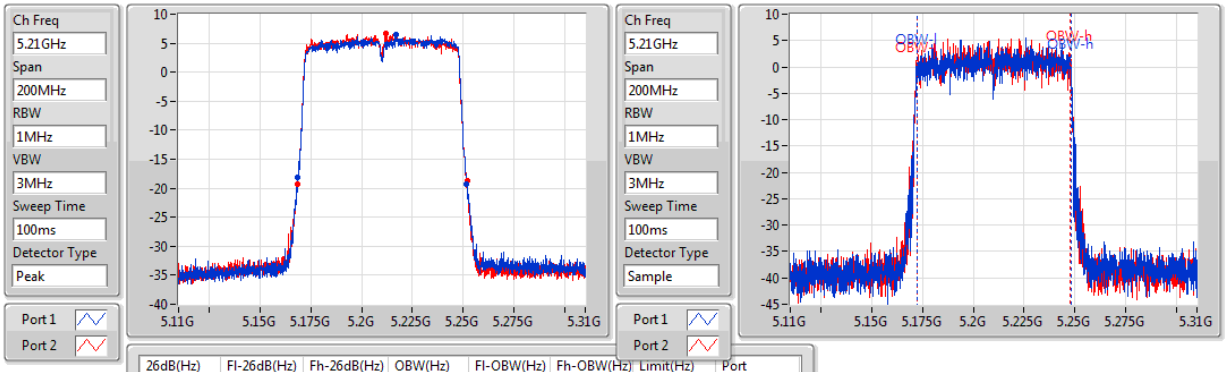


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.45M	5.7771G	5.81255G	36.282M	5.776859G	5.813141G	500k	1
35.35M	5.7772G	5.81255G	36.432M	5.776809G	5.813241G	500k	2

802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5210MHz

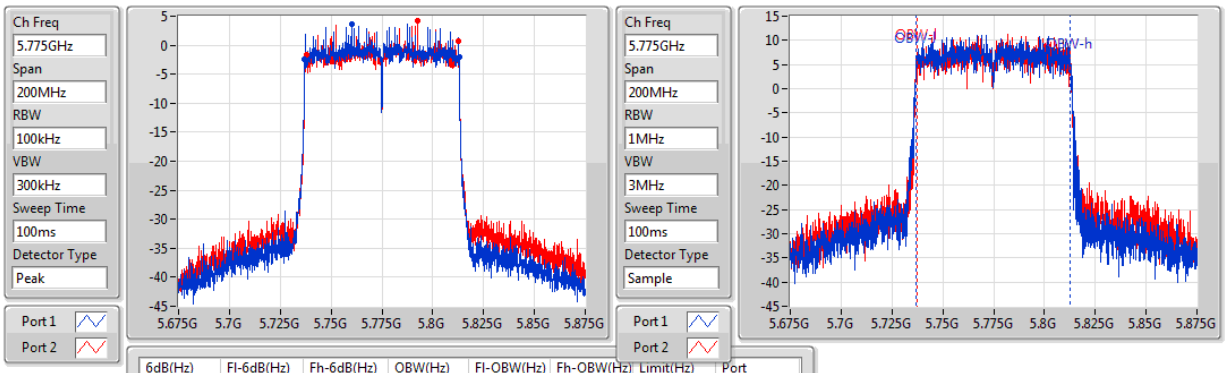


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
83.1M	5.1686G	5.2517G	75.762M	5.172219G	5.247981G	Inf	1
83.3M	5.1685G	5.2518G	75.762M	5.172119G	5.247881G	Inf	2

802.11ac VHT80_Nss1,(MCS0)_2TX

EBW

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.1M	5.7368G	5.8129G	75.862M	5.737019G	5.812881G	500k	1
74.4M	5.7381G	5.8125G	75.662M	5.737119G	5.812781G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	25.35	0.34277	33.10	2.04174
802.11ac VHT20_Nss1,(MCS0)_2TX	25.38	0.34514	33.13	2.05589
802.11ac VHT40_Nss1,(MCS0)_2TX	24.55	0.28510	32.30	1.69824
802.11ac VHT80_Nss1,(MCS0)_2TX	18.21	0.06622	25.96	0.39446
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.91	0.61802	35.66	3.68129
802.11ac VHT20_Nss1,(MCS0)_2TX	27.72	0.59156	35.47	3.52371
802.11ac VHT40_Nss1,(MCS0)_2TX	27.67	0.58479	35.42	3.48337
802.11ac VHT80_Nss1,(MCS0)_2TX	23.95	0.24831	31.70	1.47911

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.75	20.28	20.01	23.16	28.25	30.91	36.00
5200MHz	Pass	7.75	22.56	22.11	25.35	28.25	33.10	36.00
5240MHz	Pass	7.75	22.29	21.86	25.09	28.25	32.84	36.00
5745MHz	Pass	7.75	25.25	24.51	27.91	28.25	35.66	36.00
5785MHz	Pass	7.75	22.32	22.05	25.20	28.25	32.95	36.00
5825MHz	Pass	7.75	22.71	22.63	25.68	28.25	33.43	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	7.75	20.70	20.44	23.58	28.25	31.33	36.00
5200MHz	Pass	7.75	22.57	22.16	25.38	28.25	33.13	36.00
5240MHz	Pass	7.75	22.36	21.92	25.16	28.25	32.91	36.00
5745MHz	Pass	7.75	25.06	24.32	27.72	28.25	35.47	36.00
5785MHz	Pass	7.75	24.71	24.38	27.56	28.25	35.31	36.00
5825MHz	Pass	7.75	22.76	22.60	25.69	28.25	33.44	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	7.75	16.76	16.66	19.72	28.25	27.47	36.00
5230MHz	Pass	7.75	21.59	21.48	24.55	28.25	32.30	36.00
5755MHz	Pass	7.75	24.67	24.19	27.45	28.25	35.20	36.00
5795MHz	Pass	7.75	24.77	24.54	27.67	28.25	35.42	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	7.75	15.19	15.21	18.21	28.25	25.96	36.00
5775MHz	Pass	7.75	21.06	20.82	23.95	28.25	31.70	36.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	22.37	0.17258	33.13	2.05589
802.11ac VHT40_Nss1,(MCS0)_2TX	21.54	0.14256	32.30	1.69824
802.11ac VHT80_Nss1,(MCS0)_2TX	15.20	0.03311	25.96	0.39446
5.725-5.85GHz	-	-	-	-
802.11ac VHT20_Nss1,(MCS0)_2TX	24.71	0.29580	35.47	3.52371
802.11ac VHT40_Nss1,(MCS0)_2TX	24.66	0.29242	35.42	3.48337
802.11ac VHT80_Nss1,(MCS0)_2TX	20.94	0.12417	31.70	1.47911

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	10.76	17.69	17.43	20.57	25.24	31.33	36.00
5200MHz	Pass	10.76	19.56	19.15	22.37	25.24	33.13	36.00
5240MHz	Pass	10.76	19.35	18.91	22.15	25.24	32.91	36.00
5745MHz	Pass	10.76	22.05	21.31	24.71	25.24	35.47	36.00
5785MHz	Pass	10.76	21.70	21.37	24.55	25.24	35.31	36.00
5825MHz	Pass	10.76	19.75	19.59	22.68	25.24	33.44	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	10.76	13.75	13.65	16.71	25.24	27.47	36.00
5230MHz	Pass	10.76	18.58	18.47	21.54	25.24	32.30	36.00
5755MHz	Pass	10.76	21.66	21.18	24.44	25.24	35.20	36.00
5795MHz	Pass	10.76	21.76	21.53	24.66	25.24	35.42	36.00
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	10.76	12.18	12.2	15.20	25.24	25.96	36.00
5775MHz	Pass	10.76	18.05	17.81	20.94	25.24	31.70	36.00

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

Mode	Frequency	Modulation	Channel	Data Rate	Conducted Pass Setting	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Elevation angle above 30° Max gain (dBi)	Elevation angle above 30° Max EIRP (dBm)	EIRP Power Limit (dBm)	Result
Non BF (ANT 0+1)	5180MHz	OFDM	Ch36	6M	20	20.28	20.01	23.16	-6.050	17.11	21.00	Pass
	5200MHz	OFDM	Ch40	6M	22	22.56	22.11	25.35	-6.050	19.30	21.00	Pass
	5240MHz	OFDM	Ch48	6M	22	22.29	21.86	25.09	-6.050	19.04	21.00	Pass

Mode	Frequency	Modulation	Channel	Data Rate	Conducted Pass Setting	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Elevation angle above 30° Max gain (dBi)	Elevation angle above 30° Max EIRP (dBm)	EIRP Power Limit (dBm)	Result
Non BF (ANT 0+1)	5180MHz	VHT20	Ch36	MCS0-NSS1	20.5	20.7	20.44	23.58	-6.050	17.53	21.00	Pass
	5200MHz	VHT20	Ch40	MCS0-NSS1	22	22.57	22.16	25.38	-6.050	19.33	21.00	Pass
	5240MHz	VHT20	Ch48	MCS0-NSS1	22	22.36	21.92	25.16	-6.050	19.11	21.00	Pass
	5190MHz	VHT40	Ch38	MCS0-NSS1	16.5	16.76	16.66	19.72	-6.050	13.67	21.00	Pass
	5230MHz	VHT40	Ch46	MCS0-NSS1	21.5	21.59	21.48	24.55	-6.050	18.50	21.00	Pass
	5210MHz	VHT80	Ch42	MCS0-NSS1	15.5	15.19	15.21	18.21	-6.050	12.16	21.00	Pass

Mode	Frequency	Modulation	Channel	Data Rate	Conducted Pass Setting	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Elevation angle above 30° Max gain (dBi)	Elevation angle above 30° Max EIRP (dBm)	EIRP Power Limit (dBm)	Result
BF	5180MHz	VHT20	Ch36	MCS0-NSS1	17.5	17.69	17.43	20.57	-3.040	17.53	21.00	Pass
	5200MHz	VHT20	Ch40	MCS0-NSS1	19	19.56	19.15	22.37	-3.040	19.33	21.00	Pass
	5240MHz	VHT20	Ch48	MCS0-NSS1	19	19.35	18.91	22.15	-3.040	19.11	21.00	Pass
	5190MHz	VHT40	Ch38	MCS0-NSS1	13.5	13.75	13.65	16.71	-3.040	13.67	21.00	Pass
	5230MHz	VHT40	Ch46	MCS0-NSS1	18.5	18.58	18.47	21.54	-3.040	18.50	21.00	Pass
	5210MHz	VHT80	Ch42	MCS0-NSS1	12.5	12.18	12.2	15.20	-3.040	12.16	21.00	Pass

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.18	22.94
802.11ac VHT20_Nss1,(MCS0)_2TX	11.95	22.71
802.11ac VHT40_Nss1,(MCS0)_2TX	8.47	19.23
802.11ac VHT80_Nss1,(MCS0)_2TX	-0.96	9.80
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	11.66	22.42
802.11ac VHT20_Nss1,(MCS0)_2TX	11.44	22.20
802.11ac VHT40_Nss1,(MCS0)_2TX	9.32	20.08
802.11ac VHT80_Nss1,(MCS0)_2TX	3.71	14.47

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

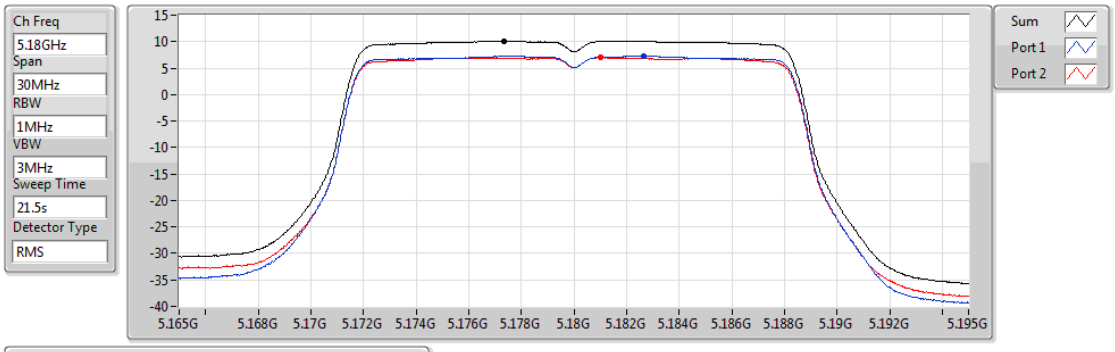
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	10.76	7.28	6.98	10.07	12.24	20.83	Inf
5200MHz	Pass	10.76	9.52	8.94	12.18	12.24	22.94	Inf
5240MHz	Pass	10.76	9.46	8.86	12.14	12.24	22.90	Inf
5745MHz	Pass	10.76	8.77	8.54	11.66	25.24	22.42	Inf
5785MHz	Pass	10.76	8.00	8.04	11.01	25.24	21.77	Inf
5825MHz	Pass	10.76	8.37	8.52	11.44	25.24	22.20	Inf
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	10.76	7.34	7.42	10.38	12.24	21.14	Inf
5200MHz	Pass	10.76	9.11	8.83	11.95	12.24	22.71	Inf
5240MHz	Pass	10.76	9.06	8.77	11.92	12.24	22.68	Inf
5745MHz	Pass	10.76	8.40	8.00	11.21	25.24	21.97	Inf
5785MHz	Pass	10.76	8.51	8.38	11.44	25.24	22.20	Inf
5825MHz	Pass	10.76	7.95	8.16	11.05	25.24	21.81	Inf
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	10.76	0.73	0.76	3.70	12.24	14.46	Inf
5230MHz	Pass	10.76	5.48	5.53	8.47	12.24	19.23	Inf
5755MHz	Pass	10.76	6.11	6.15	9.13	25.24	19.89	Inf
5795MHz	Pass	10.76	6.16	6.44	9.32	25.24	20.08	Inf
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	10.76	-3.97	-3.95	-0.96	12.24	9.80	Inf
5775MHz	Pass	10.76	0.61	0.80	3.71	25.24	14.47	Inf

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;

802.11a_Nss1,(6Mbps)_2TX PSD

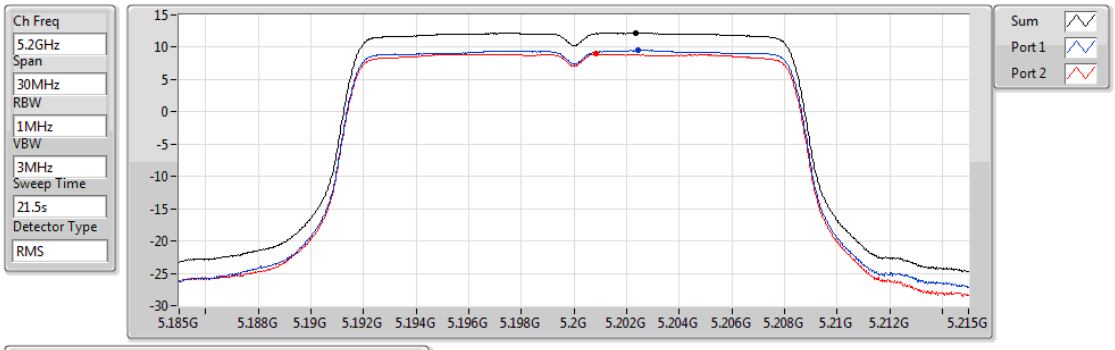
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.07	10.07	7.28	6.98

802.11a_Nss1,(6Mbps)_2TX PSD

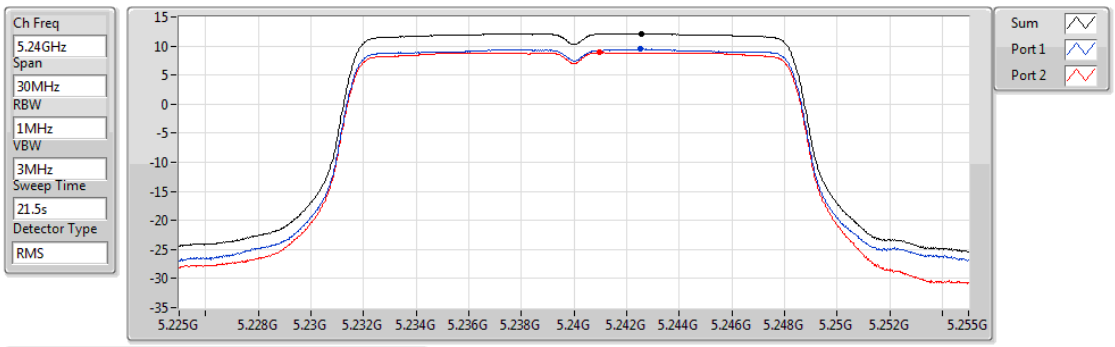
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.18	12.18	9.52	8.94

802.11a_Nss1,(6Mbps)_2TX PSD

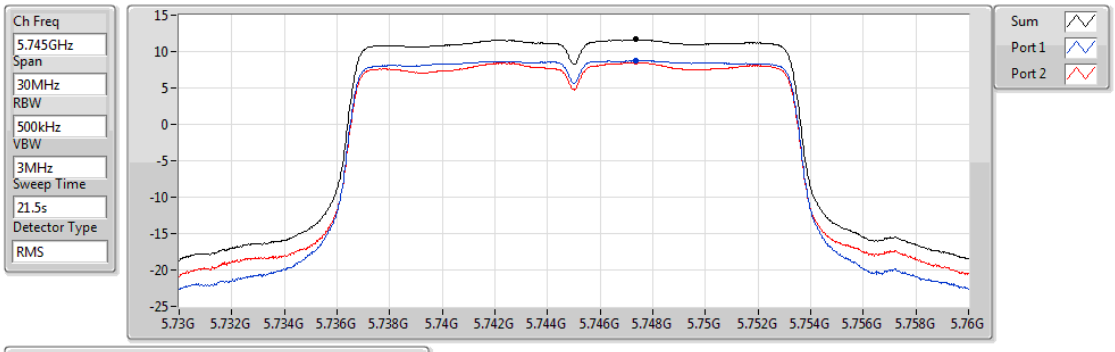
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.14	12.14	9.46	8.86

802.11a_Nss1,(6Mbps)_2TX PSD

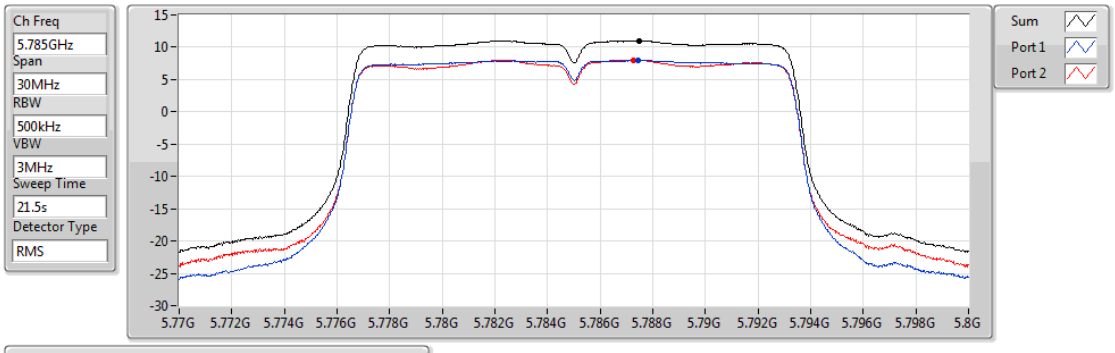
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.66	11.66	8.77	8.54

802.11a_Nss1,(6Mbps)_2TX PSD

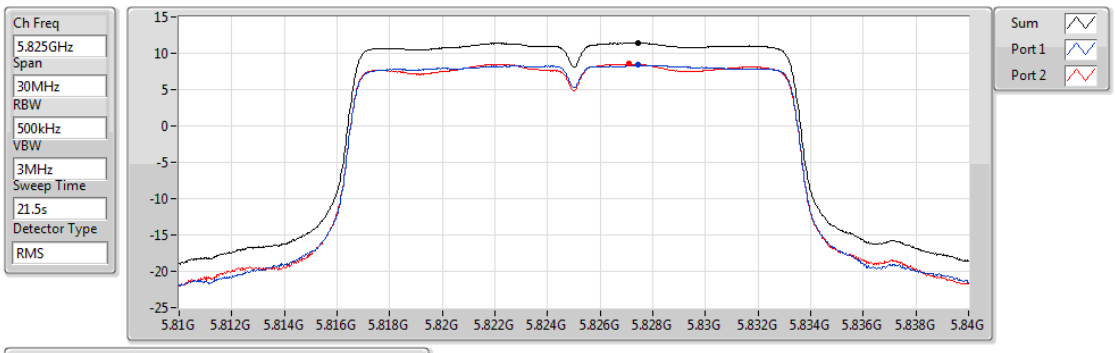
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.01	11.01	8.00	8.04

802.11a_Nss1,(6Mbps)_2TX PSD

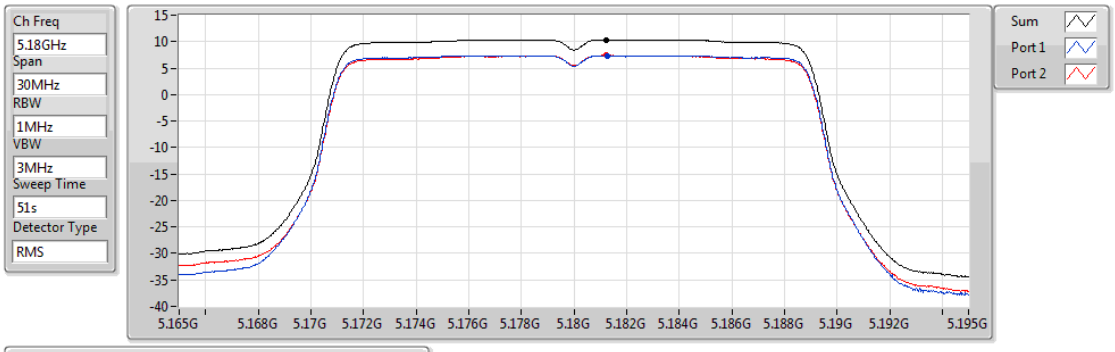
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.44	11.44	8.37	8.52

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

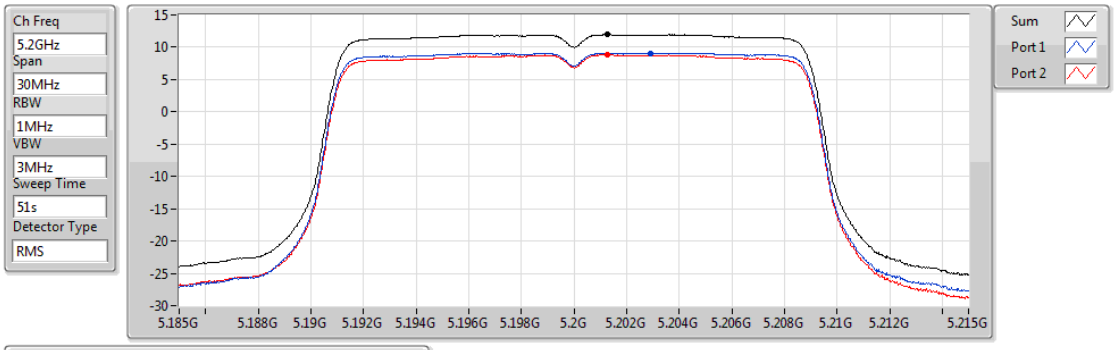
5180MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.38	10.38	7.34	7.42

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

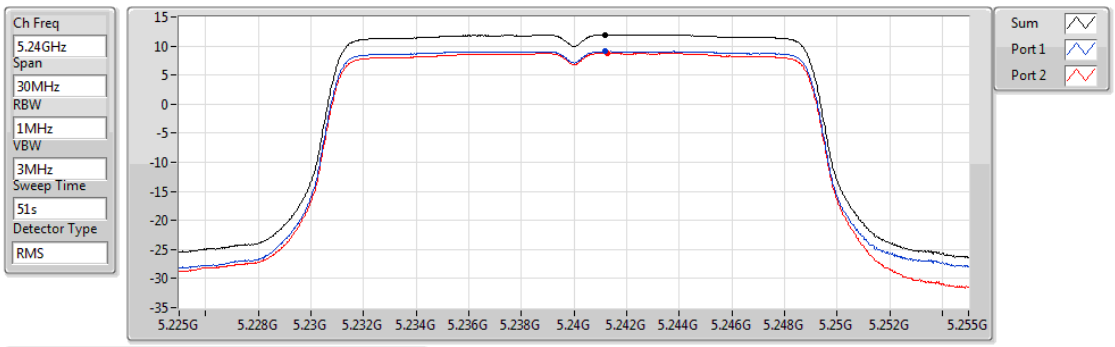
5200MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.95	11.95	9.11	8.83

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

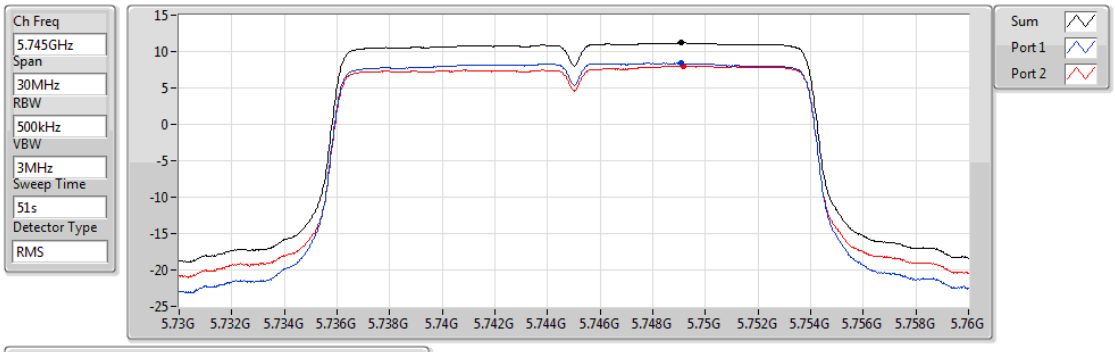
5240MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.92	11.92	9.06	8.77

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

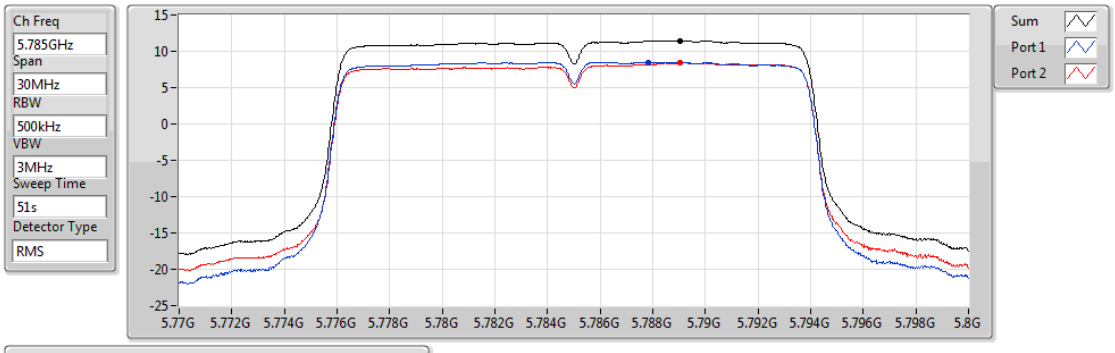
5745MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.21	11.21	8.40	8.00

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

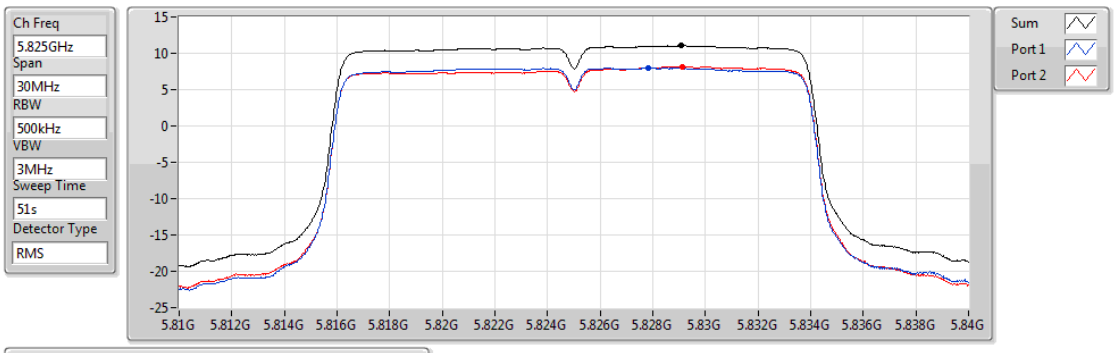
5785MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.44	11.44	8.51	8.38

802.11ac VHT20_Nss1,(MCS0)_2TX PSD

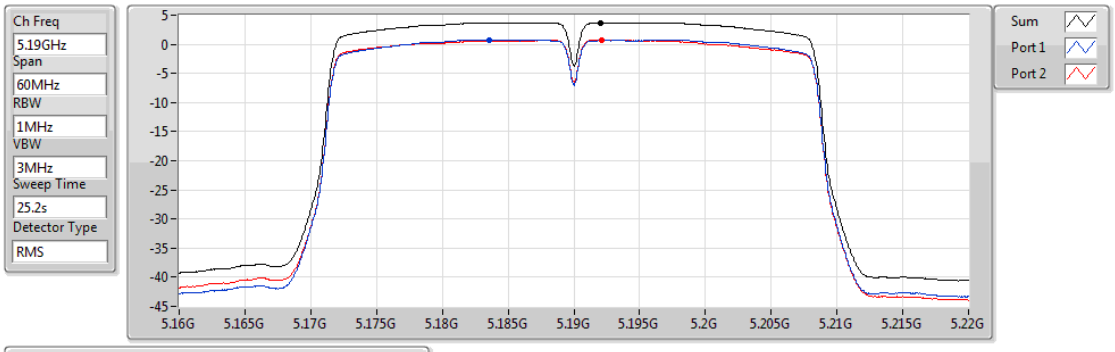
5825MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.05	11.05	7.95	8.16

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

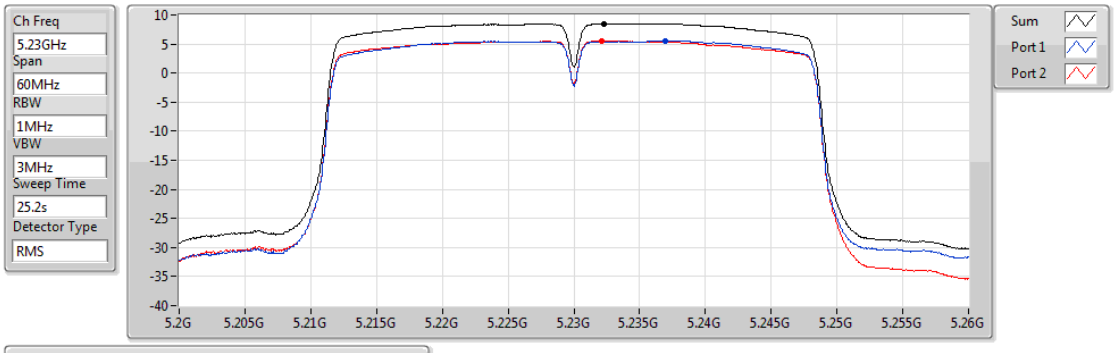
5190MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.70	3.70	0.73	0.76

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

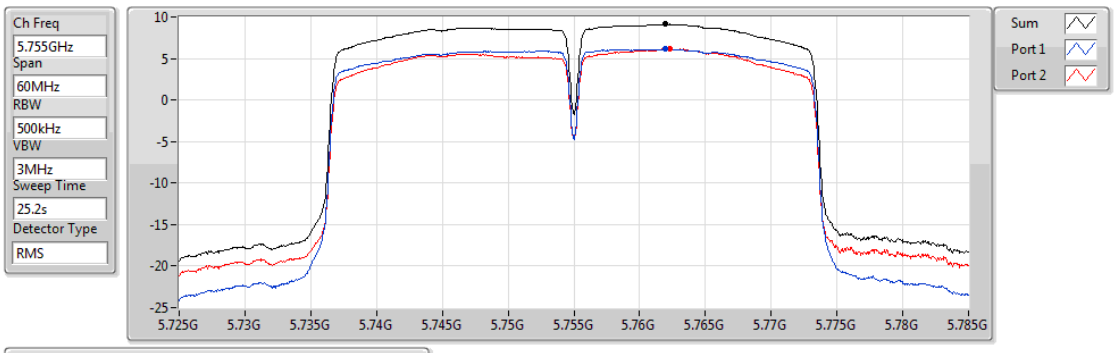
5230MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.47	8.47	5.48	5.53

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

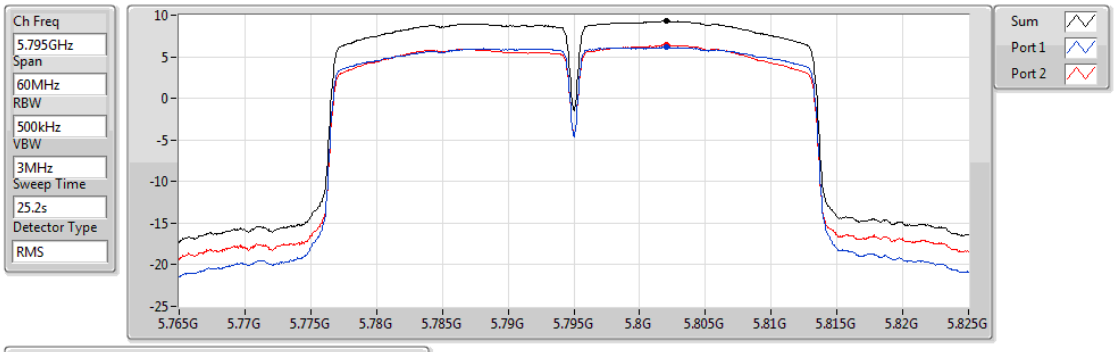
5755MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.13	9.13	6.11	6.15

802.11ac VHT40_Nss1,(MCS0)_2TX PSD

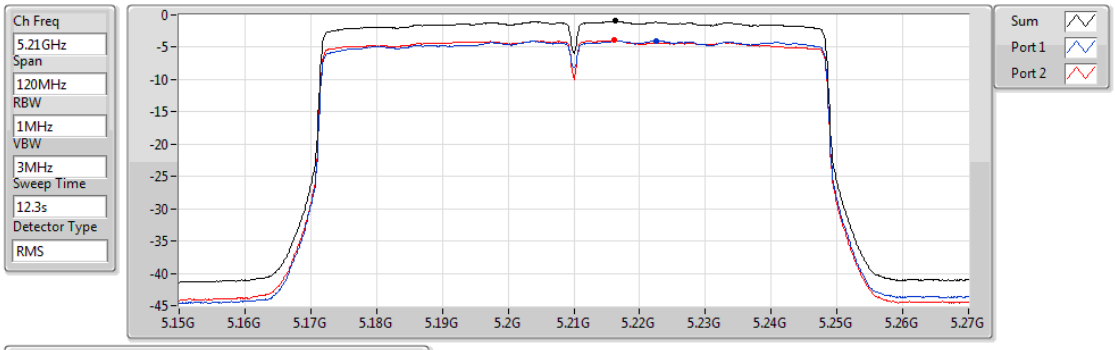
5795MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.32	9.32	6.16	6.44

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

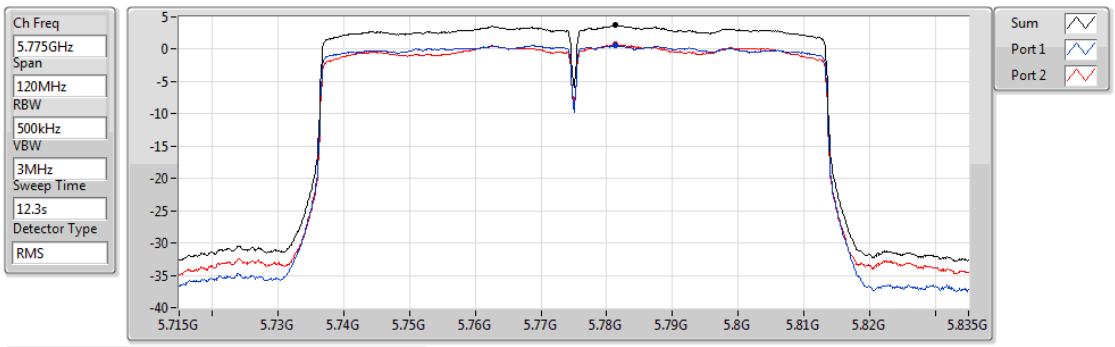
5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.96	-0.96	-3.97	-3.95

802.11ac VHT80_Nss1,(MCS0)_2TX PSD

5775MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.71	3.71	0.61	0.80

Summary

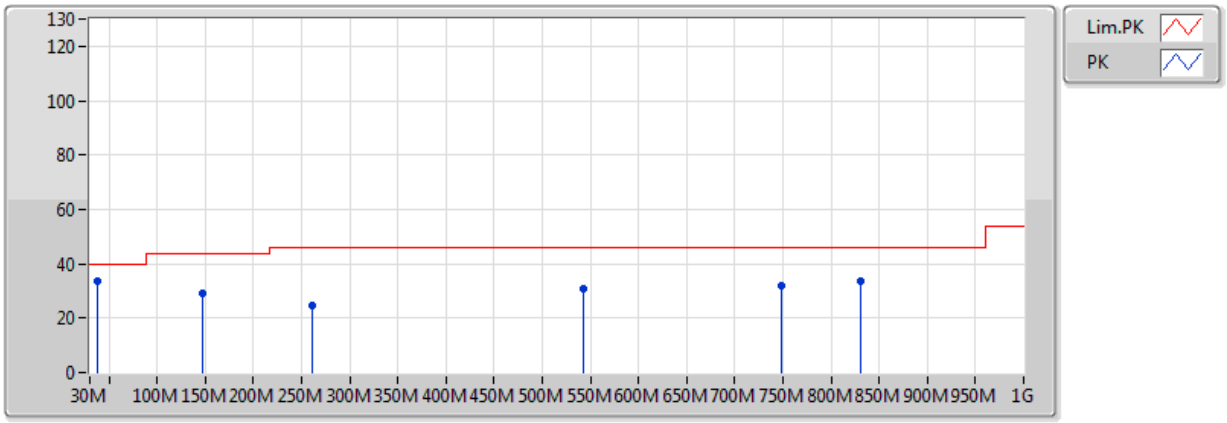
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	QP	37.76M	33.77	40.00	-6.23	-8.27	3	Vertical	340	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	45.52M	33.33	40.00	-6.67	-11.84	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	82.38M	27.57	40.00	-12.43	-13.97	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	146.4M	29.36	43.50	-14.14	-10.21	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	342.34M	27.79	46.00	-18.21	-5.80	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	540.22M	30.87	46.00	-15.13	-1.39	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	740.04M	38.17	46.00	-7.83	0.49	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	146.4M	28.89	43.50	-14.61	-10.21	3	Vertical	0	1.00	-
5775MHz	Pass	PK	260.86M	24.41	46.00	-21.59	-6.41	3	Vertical	0	1.00	-
5775MHz	Pass	PK	542.16M	30.86	46.00	-15.14	-1.34	3	Vertical	0	1.00	-
5775MHz	Pass	PK	747.8M	31.87	46.00	-14.13	0.65	3	Vertical	0	1.00	-
5775MHz	Pass	PK	831.22M	33.49	46.00	-12.51	1.73	3	Vertical	0	1.00	-
5775MHz	Pass	QP	37.76M	33.77	40.00	-6.23	-8.27	3	Vertical	340	1.00	-

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_PoE

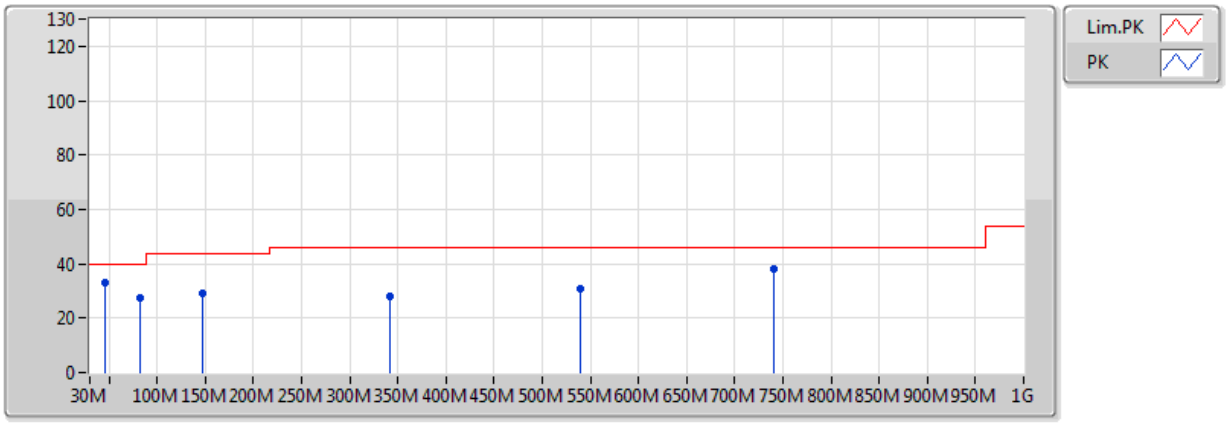


EUT= Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	146.4M	28.89	43.50	-14.61	-10.21	3	Vertical	0	1.00	-	39.10	15.70	1.73	27.64
PK	260.86M	24.41	46.00	-21.59	-6.41	3	Vertical	0	1.00	-	30.82	18.62	2.28	27.30
PK	542.16M	30.86	46.00	-15.14	-1.34	3	Vertical	0	1.00	-	32.20	23.62	3.57	28.52
PK	747.8M	31.87	46.00	-14.13	0.65	3	Vertical	0	1.00	-	31.22	24.71	4.17	28.23
PK	831.22M	33.49	46.00	-12.51	1.73	3	Vertical	0	1.00	-	31.76	25.09	4.59	27.95
QP	37.76M	33.77	40.00	-6.23	-8.27	3	Vertical	340	1.00	-	42.04	18.63	0.84	27.74

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_PoE



EUT= Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	45.52M	33.33	40.00	-6.67	-11.84	3	Horizontal	360	1.00	-	45.17	14.78	1.00	27.62
PK	82.38M	27.57	40.00	-12.43	-13.97	3	Horizontal	360	1.00	-	41.54	12.41	1.34	27.72
PK	146.4M	29.36	43.50	-14.14	-10.21	3	Horizontal	360	1.00	-	39.57	15.70	1.73	27.64
PK	342.34M	27.79	46.00	-18.21	-5.80	3	Horizontal	360	1.00	-	33.59	19.13	2.59	27.52
PK	540.22M	30.87	46.00	-15.13	-1.39	3	Horizontal	360	1.00	-	32.26	23.57	3.56	28.52
PK	740.04M	38.17	46.00	-7.83	0.49	3	Horizontal	360	1.00	-	37.68	24.59	4.16	28.26

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.1472G	53.17	54.00	-0.83	2.90	3	Vertical	319	1.60	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	5.1426G	53.28	54.00	-0.72	2.89	3	Vertical	162	1.50	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	5.149995G	53.65	54.00	-0.35	2.90	3	Vertical	355	1.67	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	AV	5.149995G	53.80	54.00	-0.20	2.90	3	Vertical	354	1.71	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	17.47632G	53.21	54.00	-0.79	21.90	3	Vertical	178	1.82	-
802.11ac VHT20_Nss1,(MCS0)_2TX	Pass	AV	17.2335G	53.07	54.00	-0.93	20.07	3	Horizontal	161	1.62	-
802.11ac VHT40_Nss1,(MCS0)_2TX	Pass	AV	17.3886G	53.21	54.00	-0.79	21.24	3	Horizontal	160	1.56	-
802.11ac VHT80_Nss1,(MCS0)_2TX	Pass	PK	5.643G	67.45	68.20	-0.75	3.39	3	Vertical	323	1.55	-

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1472G	53.17	54.00	-0.83	2.90	3	Vertical	319	1.60	-
5180MHz	Pass	AV	5.1818G	108.35	Inf	-Inf	2.93	3	Vertical	319	1.60	-
5180MHz	Pass	PK	5.147G	65.98	74.00	-8.02	2.90	3	Vertical	319	1.60	-
5180MHz	Pass	PK	5.1766G	117.03	Inf	-Inf	2.93	3	Vertical	319	1.60	-
5180MHz	Pass	AV	15.52668G	48.19	54.00	-5.81	16.87	3	Horizontal	225	2.41	-
5180MHz	Pass	PK	15.5379G	61.30	74.00	-12.70	16.83	3	Horizontal	225	2.41	-
5180MHz	Pass	AV	15.5268G	47.99	54.00	-6.01	16.87	3	Vertical	175	1.13	-
5180MHz	Pass	PK	15.53544G	61.56	74.00	-12.44	16.84	3	Vertical	175	1.13	-
5200MHz	Pass	AV	5.1468G	52.93	54.00	-1.07	2.90	3	Vertical	319	1.50	-
5200MHz	Pass	AV	5.202G	111.57	Inf	-Inf	2.95	3	Vertical	319	1.50	-
5200MHz	Pass	PK	5.1468G	67.36	74.00	-6.64	2.90	3	Vertical	319	1.50	-
5200MHz	Pass	PK	5.1968G	120.11	Inf	-Inf	2.95	3	Vertical	319	1.50	-
5200MHz	Pass	AV	15.585G	46.86	54.00	-7.14	16.66	3	Horizontal	259	1.12	-
5200MHz	Pass	PK	15.61098G	60.10	74.00	-13.90	16.56	3	Horizontal	259	1.12	-
5200MHz	Pass	AV	15.58926G	46.86	54.00	-7.14	16.64	3	Vertical	269	1.64	-
5200MHz	Pass	PK	15.5967G	60.15	74.00	-13.85	16.61	3	Vertical	269	1.64	-
5240MHz	Pass	AV	5.147G	47.26	54.00	-6.74	2.90	3	Vertical	317	1.50	-
5240MHz	Pass	AV	5.2418G	112.85	Inf	-Inf	3.00	3	Vertical	317	1.50	-
5240MHz	Pass	AV	5.3642G	46.09	54.00	-7.91	3.12	3	Vertical	317	1.50	-
5240MHz	Pass	PK	5.141G	58.94	74.00	-15.06	2.89	3	Vertical	317	1.50	-
5240MHz	Pass	PK	5.2364G	121.53	Inf	-Inf	2.99	3	Vertical	317	1.50	-
5240MHz	Pass	PK	5.3786G	57.48	74.00	-16.52	3.14	3	Vertical	317	1.50	-
5240MHz	Pass	AV	15.71328G	45.05	54.00	-8.95	16.19	3	Horizontal	185	1.46	-
5240MHz	Pass	PK	15.71532G	58.57	74.00	-15.43	16.18	3	Horizontal	185	1.46	-
5240MHz	Pass	AV	15.7134G	45.02	54.00	-8.98	16.19	3	Vertical	192	1.05	-
5240MHz	Pass	PK	15.70728G	58.31	74.00	-15.69	16.21	3	Vertical	192	1.05	-
5745MHz	Pass	AV	5.7474G	113.27	Inf	-Inf	3.47	3	Vertical	335	1.50	-
5745MHz	Pass	PK	5.6514G	60.88	69.24	-8.36	3.40	3	Vertical	335	1.50	-
5745MHz	Pass	PK	5.7414G	121.93	Inf	-Inf	3.47	3	Vertical	335	1.50	-
5745MHz	Pass	PK	5.9322G	58.52	68.20	-9.68	3.63	3	Vertical	335	1.50	-
5745MHz	Pass	AV	17.2347G	52.87	54.00	-1.13	20.08	3	Horizontal	197	1.74	-
5745MHz	Pass	PK	17.22978G	66.78	74.00	-7.22	20.05	3	Horizontal	197	1.74	-
5745MHz	Pass	AV	17.23554G	53.10	54.00	-0.90	20.09	3	Vertical	194	1.31	-
5745MHz	Pass	PK	17.235G	67.17	74.00	-6.83	20.08	3	Vertical	194	1.31	-
5785MHz	Pass	AV	5.7826G	113.07	Inf	-Inf	3.50	3	Vertical	335	1.62	-
5785MHz	Pass	PK	5.6302G	58.25	68.20	-9.95	3.38	3	Vertical	335	1.62	-
5785MHz	Pass	PK	5.7814G	122.12	Inf	-Inf	3.50	3	Vertical	335	1.62	-
5785MHz	Pass	PK	5.9278G	58.95	68.20	-9.25	3.62	3	Vertical	335	1.62	-
5785MHz	Pass	AV	17.3556G	51.99	54.00	-2.01	20.99	3	Horizontal	160	1.50	-
5785MHz	Pass	PK	17.361G	66.43	74.00	-7.57	21.03	3	Horizontal	160	1.50	-
5785MHz	Pass	AV	17.3556G	52.94	54.00	-1.06	20.99	3	Vertical	172	1.81	-
5785MHz	Pass	PK	17.36148G	68.38	74.00	-5.62	21.03	3	Vertical	172	1.81	-
5825MHz	Pass	AV	5.8274G	113.62	Inf	-Inf	3.53	3	Vertical	335	1.65	-
5825MHz	Pass	PK	5.6486G	58.22	68.20	-9.98	3.39	3	Vertical	335	1.65	-
5825MHz	Pass	PK	5.8322G	121.91	Inf	-Inf	3.54	3	Vertical	335	1.65	-
5825MHz	Pass	PK	5.9282G	60.99	68.20	-7.21	3.62	3	Vertical	335	1.65	-
5825MHz	Pass	AV	17.47626G	52.68	54.00	-1.32	21.90	3	Horizontal	162	1.50	-

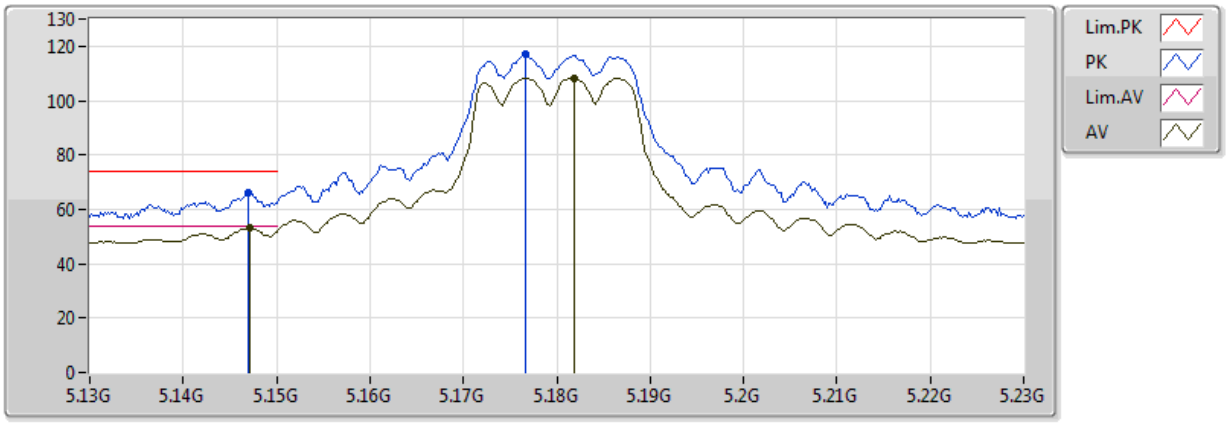
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	17.48118G	68.69	74.00	-5.31	21.93	3	Horizontal	162	1.50	-
5825MHz	Pass	AV	17.47632G	53.21	54.00	-0.79	21.90	3	Vertical	178	1.82	-
5825MHz	Pass	PK	17.4762G	68.87	74.00	-5.13	21.90	3	Vertical	178	1.82	-
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1426G	53.28	54.00	-0.72	2.89	3	Vertical	162	1.50	-
5180MHz	Pass	AV	5.179G	110.29	Inf	-Inf	2.93	3	Vertical	1	1.71	-
5180MHz	Pass	PK	5.149G	68.31	74.00	-5.69	2.90	3	Vertical	1	1.71	-
5180MHz	Pass	PK	5.1814G	118.88	Inf	-Inf	2.93	3	Vertical	1	1.71	-
5180MHz	Pass	AV	15.52716G	47.54	54.00	-6.46	16.87	3	Horizontal	146	1.77	-
5180MHz	Pass	PK	15.52908G	60.72	74.00	-13.28	16.86	3	Horizontal	146	1.77	-
5180MHz	Pass	AV	15.5274G	47.48	54.00	-6.52	16.87	3	Vertical	58	1.11	-
5180MHz	Pass	PK	15.52908G	61.31	74.00	-12.69	16.86	3	Vertical	58	1.11	-
5200MHz	Pass	AV	5.1416G	52.98	54.00	-1.02	2.89	3	Vertical	1	1.81	-
5200MHz	Pass	AV	5.1988G	113.00	Inf	-Inf	2.95	3	Vertical	1	1.81	-
5200MHz	Pass	PK	5.1388G	67.91	74.00	-6.09	2.89	3	Vertical	1	1.81	-
5200MHz	Pass	PK	5.2016G	121.84	Inf	-Inf	2.95	3	Vertical	1	1.81	-
5200MHz	Pass	AV	15.58566G	46.65	54.00	-7.35	16.65	3	Horizontal	92	1.18	-
5200MHz	Pass	PK	15.5943G	59.79	74.00	-14.21	16.62	3	Horizontal	92	1.18	-
5200MHz	Pass	AV	15.58818G	46.69	54.00	-7.31	16.64	3	Vertical	270	2.47	-
5200MHz	Pass	PK	15.58614G	60.31	74.00	-13.69	16.65	3	Vertical	270	2.47	-
5240MHz	Pass	AV	5.1362G	47.89	54.00	-6.11	2.89	3	Vertical	359	1.77	-
5240MHz	Pass	AV	5.2388G	114.56	Inf	-Inf	2.99	3	Vertical	359	1.77	-
5240MHz	Pass	AV	5.3756G	46.63	54.00	-7.37	3.14	3	Vertical	359	1.77	-
5240MHz	Pass	PK	5.1356G	59.00	74.00	-15.00	2.89	3	Vertical	359	1.77	-
5240MHz	Pass	PK	5.2382G	123.06	Inf	-Inf	2.99	3	Vertical	359	1.77	-
5240MHz	Pass	PK	5.366G	57.80	74.00	-16.20	3.13	3	Vertical	359	1.77	-
5240MHz	Pass	AV	15.70536G	44.66	54.00	-9.34	16.22	3	Horizontal	346	1.42	-
5240MHz	Pass	PK	15.72048G	58.06	74.00	-15.94	16.16	3	Horizontal	346	1.42	-
5240MHz	Pass	AV	15.70788G	44.59	54.00	-9.41	16.21	3	Vertical	175	1.09	-
5240MHz	Pass	PK	15.70554G	57.77	74.00	-16.23	16.22	3	Vertical	175	1.09	-
5745MHz	Pass	AV	5.7522G	113.36	Inf	-Inf	3.48	3	Vertical	335	1.52	-
5745MHz	Pass	PK	5.6502G	60.65	68.35	-7.70	3.40	3	Vertical	335	1.52	-
5745MHz	Pass	PK	5.7498G	122.16	Inf	-Inf	3.47	3	Vertical	335	1.52	-
5745MHz	Pass	PK	5.9418G	58.20	68.20	-10.00	3.63	3	Vertical	335	1.52	-
5745MHz	Pass	AV	17.2335G	53.07	54.00	-0.93	20.07	3	Horizontal	161	1.62	-
5745MHz	Pass	PK	17.23266G	67.65	74.00	-6.35	20.07	3	Horizontal	161	1.62	-
5745MHz	Pass	AV	17.23578G	52.78	54.00	-1.22	20.09	3	Vertical	186	1.35	-
5745MHz	Pass	PK	17.23392G	66.71	74.00	-7.29	20.08	3	Vertical	186	1.35	-
5785MHz	Pass	AV	5.7934G	111.92	Inf	-Inf	3.51	3	Vertical	332	1.54	-
5785MHz	Pass	PK	5.6446G	58.20	68.20	-10.00	3.39	3	Vertical	332	1.54	-
5785MHz	Pass	PK	5.7922G	120.42	Inf	-Inf	3.50	3	Vertical	332	1.54	-
5785MHz	Pass	PK	5.935G	58.28	68.20	-9.92	3.63	3	Vertical	332	1.54	-
5785MHz	Pass	AV	17.35584G	53.05	54.00	-0.95	20.99	3	Horizontal	160	1.44	-
5785MHz	Pass	PK	17.35476G	67.71	74.00	-6.29	20.98	3	Horizontal	160	1.44	-
5785MHz	Pass	AV	17.35806G	53.06	54.00	-0.94	21.01	3	Vertical	176	1.84	-
5785MHz	Pass	PK	17.35374G	69.15	74.00	-4.85	20.98	3	Vertical	176	1.84	-
5825MHz	Pass	AV	5.8262G	112.11	Inf	-Inf	3.53	3	Vertical	5	1.52	-
5825MHz	Pass	PK	5.6054G	57.92	68.20	-10.28	3.35	3	Vertical	5	1.52	-
5825MHz	Pass	PK	5.8262G	121.20	Inf	-Inf	3.53	3	Vertical	5	1.52	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz	Pass	PK	5.927G	62.74	68.20	-5.46	3.62	3	Vertical	5	1.52	-
5825MHz	Pass	AV	17.47908G	52.42	54.00	-1.58	21.92	3	Horizontal	161	1.49	-
5825MHz	Pass	PK	17.47968G	67.24	74.00	-6.76	21.92	3	Horizontal	161	1.49	-
5825MHz	Pass	AV	17.48088G	52.94	54.00	-1.06	21.93	3	Vertical	176	1.85	-
5825MHz	Pass	PK	17.48022G	69.48	74.00	-4.52	21.93	3	Vertical	176	1.85	-
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.149995G	53.65	54.00	-0.35	2.90	3	Vertical	355	1.67	-
5190MHz	Pass	AV	5.188G	103.39	Inf	-Inf	2.94	3	Vertical	355	1.67	-
5190MHz	Pass	PK	5.1476G	64.26	74.00	-9.74	2.90	3	Vertical	355	1.67	-
5190MHz	Pass	PK	5.1872G	111.62	Inf	-Inf	2.94	3	Vertical	355	1.67	-
5190MHz	Pass	AV	15.555G	47.31	54.00	-6.69	16.77	3	Horizontal	61	1.93	-
5190MHz	Pass	PK	15.55878G	60.22	74.00	-13.78	16.75	3	Horizontal	61	1.93	-
5190MHz	Pass	AV	15.55908G	47.25	54.00	-6.75	16.75	3	Vertical	206	1.23	-
5190MHz	Pass	PK	15.56436G	60.22	74.00	-13.78	16.73	3	Vertical	206	1.23	-
5230MHz	Pass	AV	5.149995G	53.57	54.00	-0.43	2.90	3	Vertical	3	1.71	-
5230MHz	Pass	AV	5.2316G	109.68	Inf	-Inf	2.98	3	Vertical	3	1.71	-
5230MHz	Pass	PK	5.149995G	66.27	74.00	-7.73	2.90	3	Vertical	3	1.71	-
5230MHz	Pass	PK	5.2324G	117.28	Inf	-Inf	2.99	3	Vertical	3	1.71	-
5230MHz	Pass	AV	15.6753G	45.05	54.00	-8.95	16.33	3	Horizontal	147	1.35	-
5230MHz	Pass	PK	15.68508G	58.26	74.00	-15.74	16.29	3	Horizontal	147	1.35	-
5230MHz	Pass	AV	15.67518G	45.05	54.00	-8.95	16.33	3	Vertical	106	2.00	-
5230MHz	Pass	PK	15.69006G	59.11	74.00	-14.89	16.28	3	Vertical	106	2.00	-
5755MHz	Pass	AV	5.7586G	110.72	Inf	-Inf	7.66	3	Vertical	334	1.89	-
5755MHz	Pass	PK	5.6506G	66.13	68.64	-2.51	7.45	3	Vertical	334	1.89	-
5755MHz	Pass	PK	5.7574G	121.07	Inf	-Inf	7.65	3	Vertical	334	1.89	-
5755MHz	Pass	PK	5.9626G	61.02	68.20	-7.18	8.03	3	Vertical	334	1.89	-
5755MHz	Pass	AV	17.277G	49.95	54.00	-4.05	20.40	3	Horizontal	360	1.50	-
5755MHz	Pass	PK	17.25954G	63.24	74.00	-10.76	20.27	3	Horizontal	360	1.50	-
5755MHz	Pass	AV	17.26566G	50.15	54.00	-3.85	20.32	3	Vertical	360	1.50	-
5755MHz	Pass	PK	17.2638G	65.42	74.00	-8.58	20.30	3	Vertical	360	1.50	-
5795MHz	Pass	AV	5.8034G	110.03	Inf	-Inf	3.51	3	Vertical	327	1.53	-
5795MHz	Pass	PK	5.6414G	60.41	68.20	-7.79	3.39	3	Vertical	327	1.53	-
5795MHz	Pass	PK	5.8034G	118.30	Inf	-Inf	3.51	3	Vertical	327	1.53	-
5795MHz	Pass	PK	5.9258G	64.16	68.20	-4.04	3.62	3	Vertical	327	1.53	-
5795MHz	Pass	AV	17.3886G	53.21	54.00	-0.79	21.24	3	Horizontal	160	1.56	-
5795MHz	Pass	PK	17.38776G	66.14	74.00	-7.86	21.23	3	Horizontal	160	1.56	-
5795MHz	Pass	AV	17.38884G	52.96	54.00	-1.04	21.24	3	Vertical	174	1.38	-
5795MHz	Pass	PK	17.38848G	66.79	74.00	-7.21	21.24	3	Vertical	174	1.38	-
802.11ac VHT80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.149995G	53.80	54.00	-0.20	2.90	3	Vertical	354	1.71	-
5210MHz	Pass	AV	5.228G	99.94	Inf	-Inf	2.98	3	Vertical	354	1.71	-
5210MHz	Pass	AV	5.352G	47.98	54.00	-6.02	3.11	3	Vertical	354	1.71	-
5210MHz	Pass	PK	5.149995G	65.54	74.00	-8.46	2.90	3	Vertical	354	1.71	-
5210MHz	Pass	PK	5.228G	108.47	Inf	-Inf	2.98	3	Vertical	354	1.71	-
5210MHz	Pass	PK	5.36G	59.13	74.00	-14.87	3.12	3	Vertical	354	1.71	-
5210MHz	Pass	AV	15.62232G	46.01	54.00	-7.99	16.52	3	Horizontal	257	2.21	-
5210MHz	Pass	PK	15.62394G	59.48	74.00	-14.52	16.52	3	Horizontal	257	2.21	-
5210MHz	Pass	AV	15.61644G	46.02	54.00	-7.98	16.54	3	Vertical	352	1.79	-
5210MHz	Pass	PK	15.636G	59.45	74.00	-14.55	16.47	3	Vertical	352	1.79	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5775MHz	Pass	AV	5.763G	103.34	Inf	-Inf	3.48	3	Vertical	323	1.55	-
5775MHz	Pass	PK	5.643G	67.45	68.20	-0.75	3.39	3	Vertical	323	1.55	-
5775MHz	Pass	PK	5.7822G	111.75	Inf	-Inf	3.50	3	Vertical	323	1.55	-
5775MHz	Pass	PK	5.9274G	66.23	68.20	-1.97	3.62	3	Vertical	323	1.55	-
5775MHz	Pass	AV	17.6178G	52.47	54.00	-1.53	22.94	3	Horizontal	3	1.98	-
5775MHz	Pass	PK	17.577G	64.95	74.00	-9.05	22.64	3	Horizontal	3	1.98	-
5775MHz	Pass	AV	17.6226G	52.57	54.00	-1.43	22.98	3	Vertical	319	2.01	-
5775MHz	Pass	PK	17.5938G	65.64	74.00	-8.36	22.77	3	Vertical	319	2.01	-

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

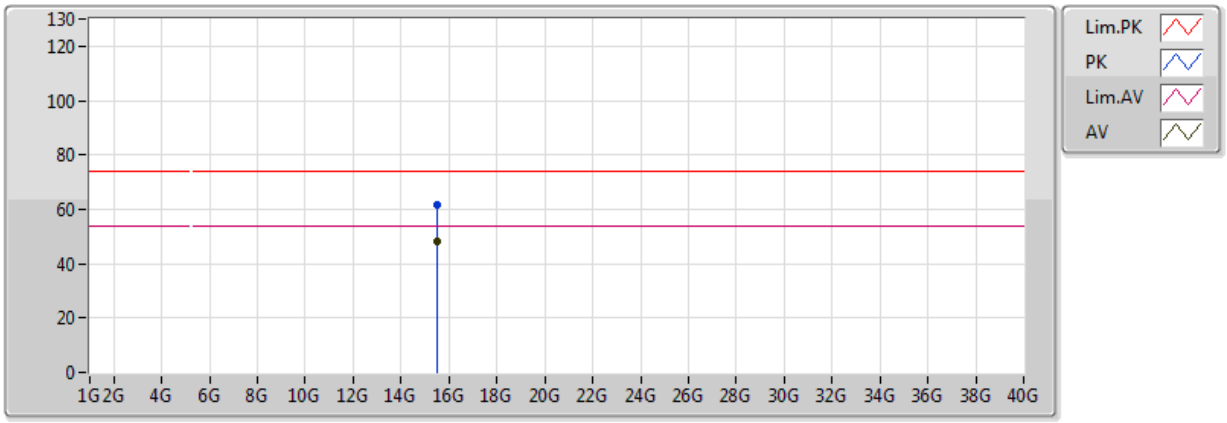


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1472G	53.17	54.00	-0.83	2.90	3	Vertical	319	1.60	-	50.28	31.62	6.48	35.21
AV	5.1818G	108.35	Inf	-Inf	2.93	3	Vertical	319	1.60	-	105.42	31.65	6.49	35.20
PK	5.147G	65.98	74.00	-8.02	2.90	3	Vertical	319	1.60	-	63.08	31.62	6.48	35.21
PK	5.1766G	117.03	Inf	-Inf	2.93	3	Vertical	319	1.60	-	114.10	31.64	6.49	35.20

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

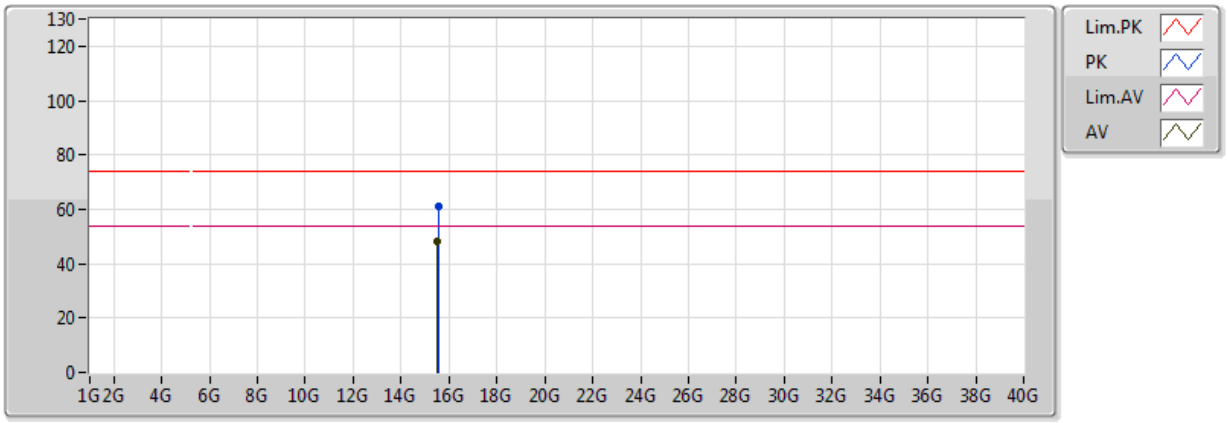


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.5268G	47.99	54.00	-6.01	16.87	3	Vertical	175	1.13	-	31.12	38.90	9.95	31.98
PK	15.53544G	61.56	74.00	-12.44	16.84	3	Vertical	175	1.13	-	44.72	38.87	9.95	31.98

802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX

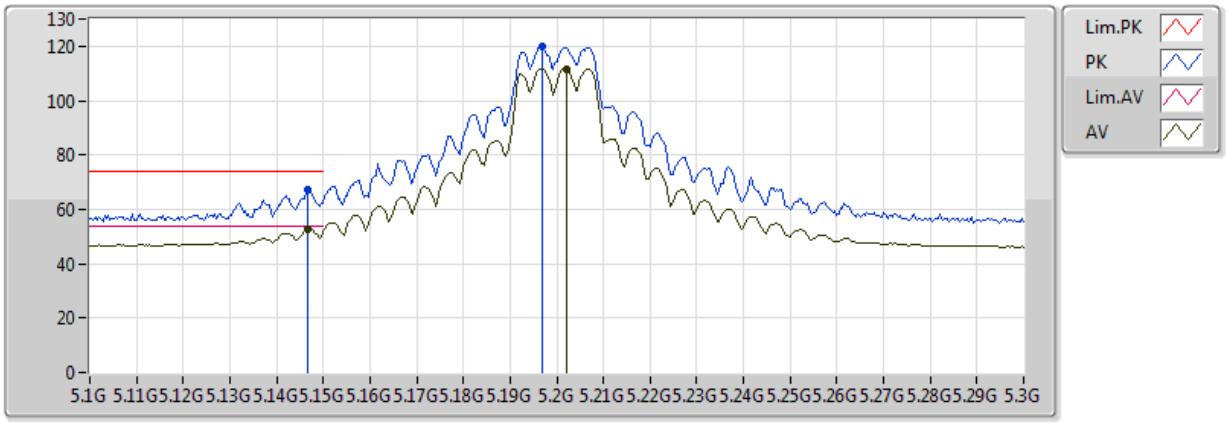


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.52668G	48.19	54.00	-5.81	16.87	3	Horizontal	225	2.41	-	31.32	38.90	9.95	31.98
PK	15.5379G	61.30	74.00	-12.70	16.83	3	Horizontal	225	2.41	-	44.47	38.86	9.95	31.98

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

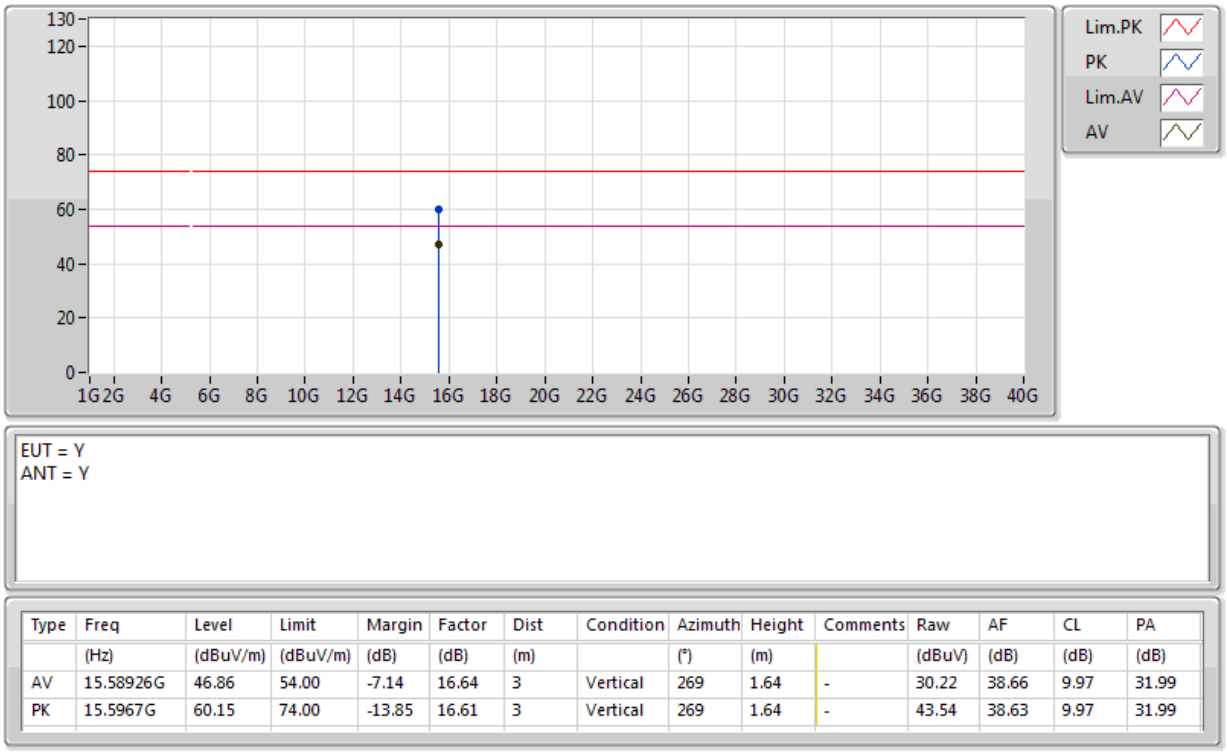


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1468G	52.93	54.00	-1.07	2.90	3	Vertical	319	1.50	-	50.04	31.62	6.48	35.21
AV	5.202G	111.57	Inf	-Inf	2.95	3	Vertical	319	1.50	-	108.62	31.66	6.49	35.20
PK	5.1468G	67.36	74.00	-6.64	2.90	3	Vertical	319	1.50	-	64.46	31.62	6.48	35.21
PK	5.1968G	120.11	Inf	-Inf	2.95	3	Vertical	319	1.50	-	117.17	31.66	6.49	35.20

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

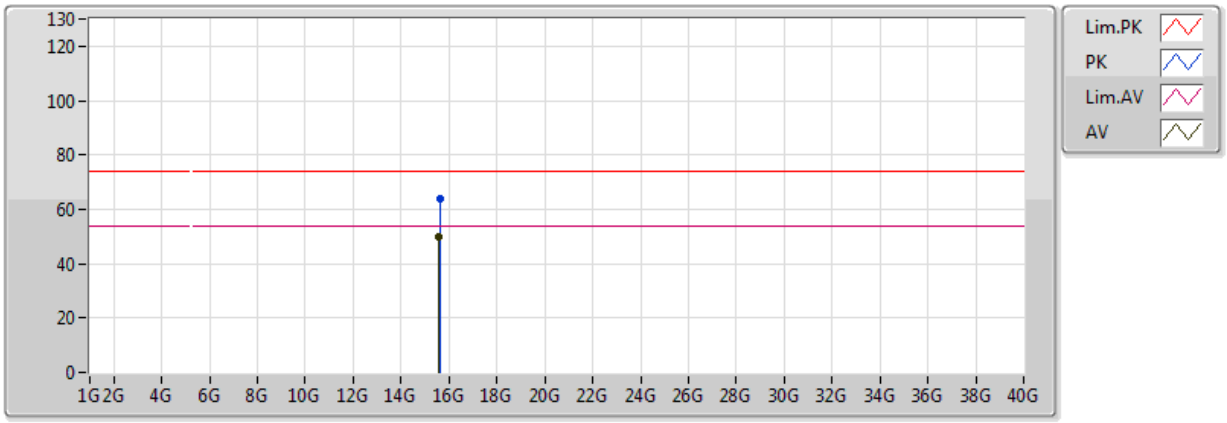


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.58926G	46.86	54.00	-7.14	16.64	3	Vertical	269	1.64	-	30.22	38.66	9.97	31.99
PK	15.5967G	60.15	74.00	-13.85	16.61	3	Vertical	269	1.64	-	43.54	38.63	9.97	31.99

802.11a_Nss1,(6Mbps)_2TX

5200MHz_TX

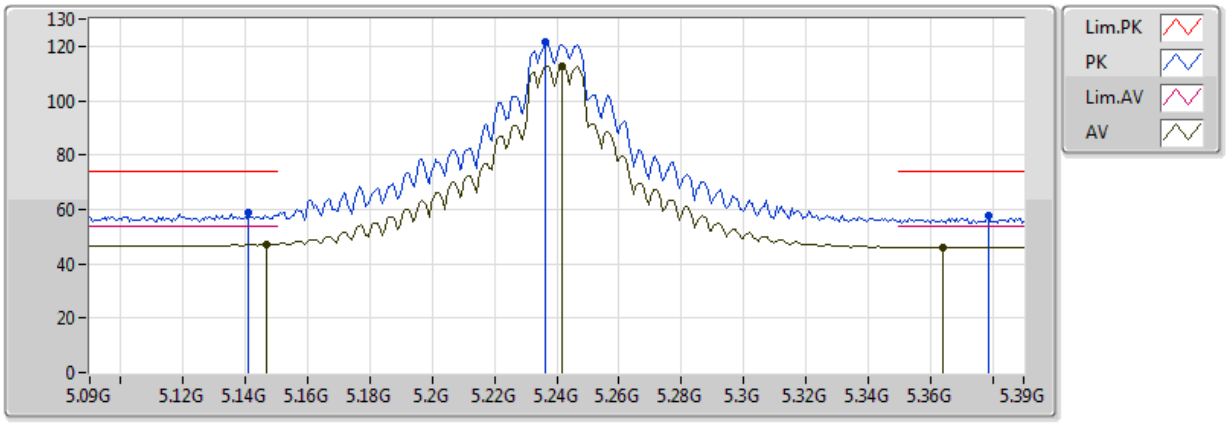


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.58614G	49.90	54.00	-4.10	16.65	3	Horizontal	42	2.39	-	33.25	38.67	9.97	31.99
PK	15.60456G	63.72	74.00	-10.28	16.59	3	Horizontal	42	2.39	-	47.13	38.60	9.97	31.99

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

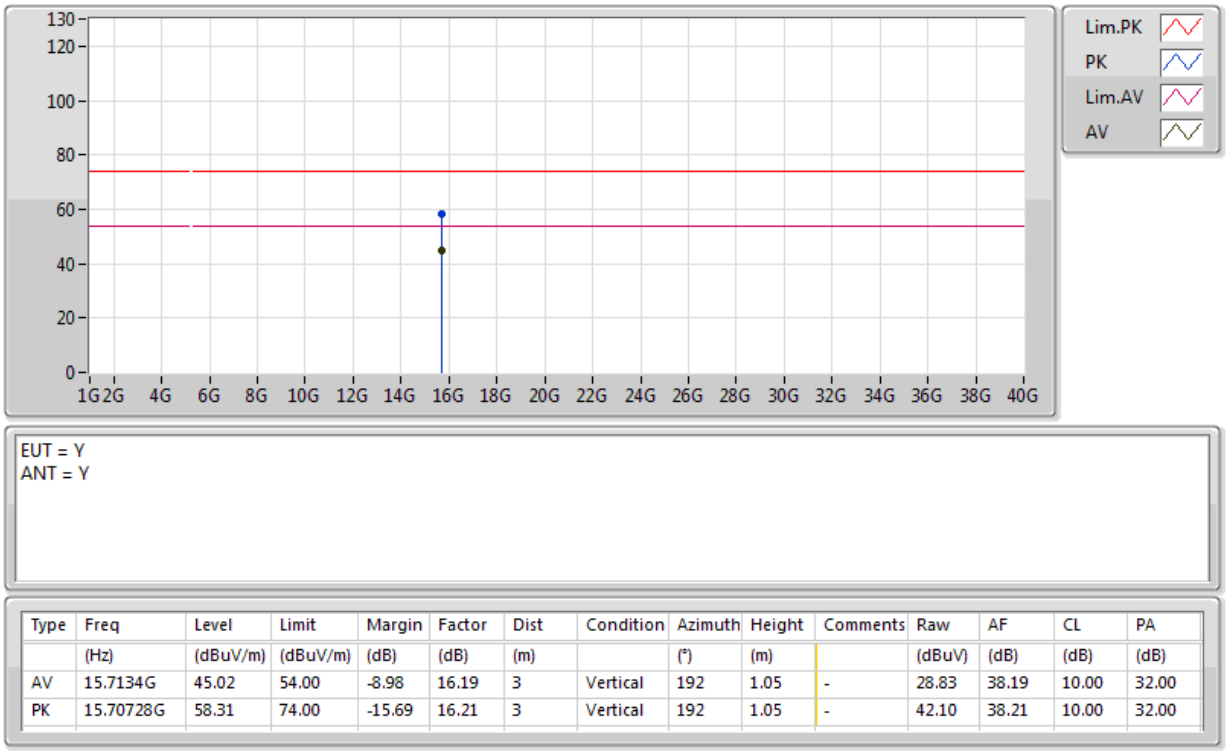


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.147G	47.26	54.00	-6.74	2.90	3	Vertical	317	1.50	-	44.36	31.62	6.48	35.21
AV	5.2418G	112.85	Inf	-Inf	3.00	3	Vertical	317	1.50	-	109.85	31.69	6.50	35.20
AV	5.3642G	46.09	54.00	-7.91	3.12	3	Vertical	317	1.50	-	42.96	31.79	6.52	35.18
PK	5.141G	58.94	74.00	-15.06	2.89	3	Vertical	317	1.50	-	56.05	31.61	6.48	35.21
PK	5.2364G	121.53	Inf	-Inf	2.99	3	Vertical	317	1.50	-	118.54	31.69	6.50	35.20
PK	5.3786G	57.48	74.00	-16.52	3.14	3	Vertical	317	1.50	-	54.34	31.80	6.52	35.18

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

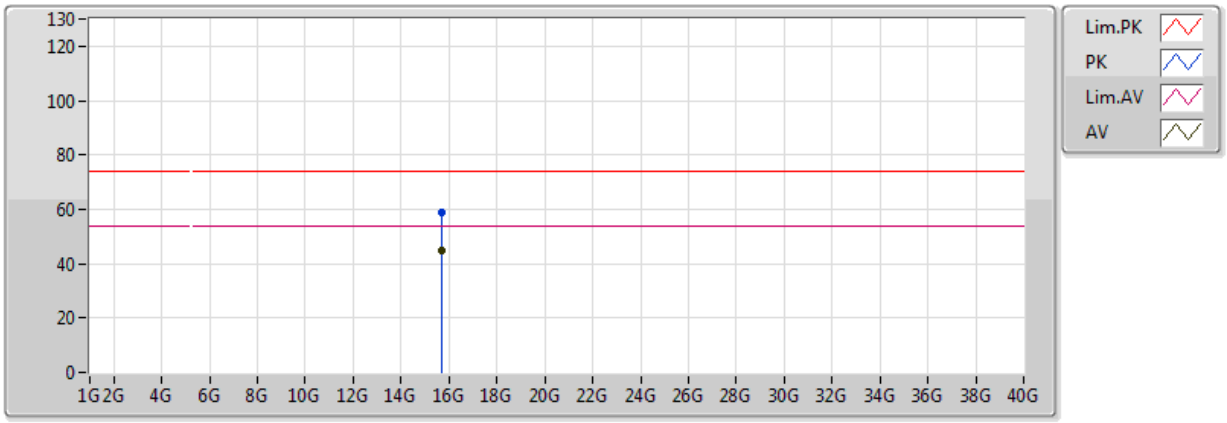


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.7134G	45.02	54.00	-8.98	16.19	3	Vertical	192	1.05	-	28.83	38.19	10.00	32.00
PK	15.70728G	58.31	74.00	-15.69	16.21	3	Vertical	192	1.05	-	42.10	38.21	10.00	32.00

802.11a_Nss1,(6Mbps)_2TX

5240MHz_TX

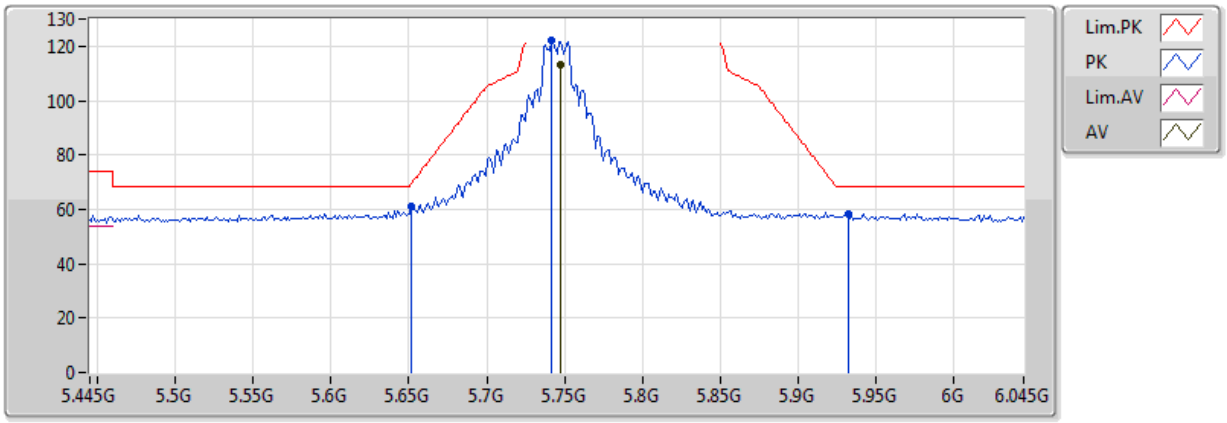


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.71328G	45.05	54.00	-8.95	16.19	3	Horizontal	185	1.46	-	28.86	38.19	10.00	32.00
PK	15.71532G	58.57	74.00	-15.43	16.18	3	Horizontal	185	1.46	-	42.39	38.18	10.00	32.00

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

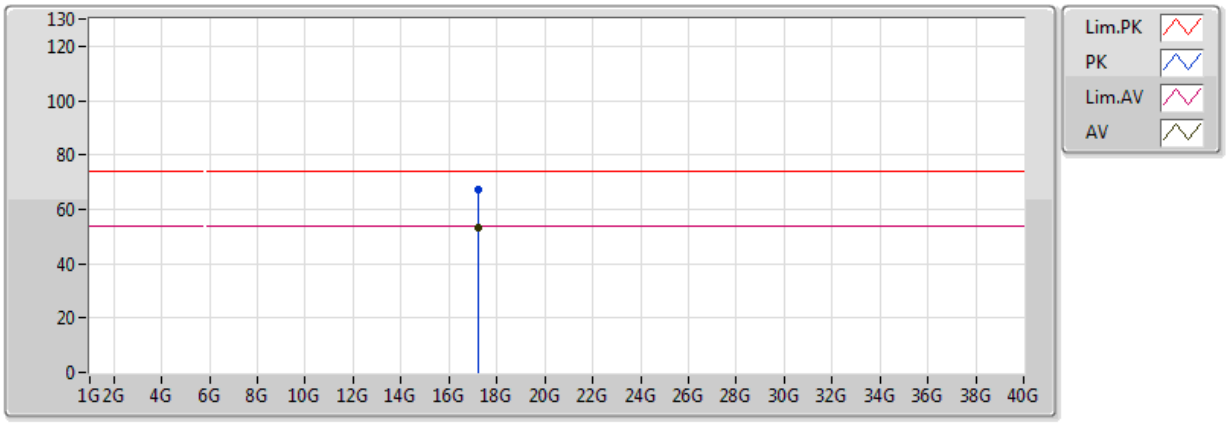


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7474G	113.27	Inf	-Inf	3.47	3	Vertical	335	1.50	-	109.80	32.20	6.46	35.18
PK	5.6514G	60.88	69.24	-8.36	3.40	3	Vertical	335	1.50	-	57.48	32.08	6.49	35.18
PK	5.7414G	121.93	Inf	-Inf	3.47	3	Vertical	335	1.50	-	118.46	32.19	6.46	35.18
PK	5.9322G	58.52	68.20	-9.68	3.63	3	Vertical	335	1.50	-	54.89	32.42	6.40	35.19

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

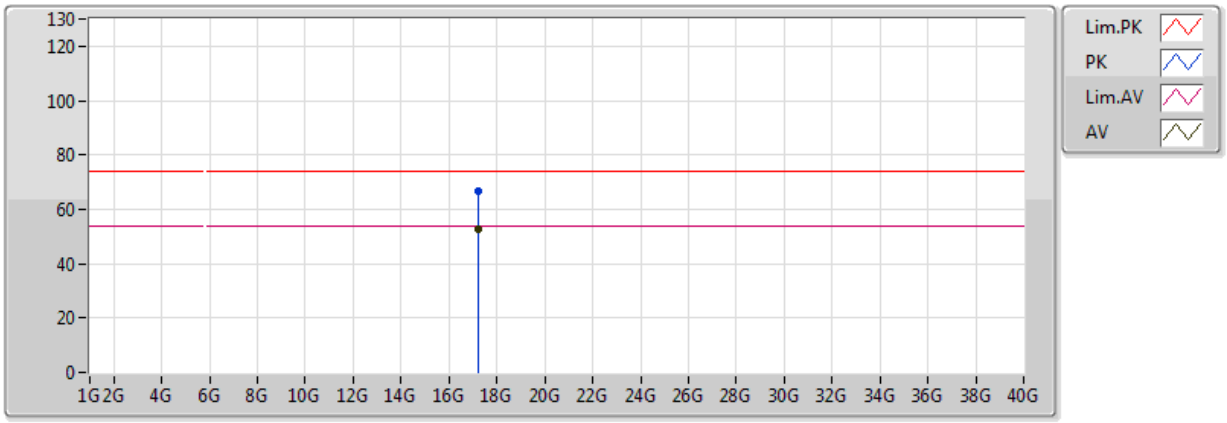


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.23554G	53.10	54.00	-0.90	20.09	3	Vertical	194	1.31	-	33.01	41.60	10.47	31.98
PK	17.235G	67.17	74.00	-6.83	20.08	3	Vertical	194	1.31	-	47.09	41.60	10.47	31.98

802.11a_Nss1,(6Mbps)_2TX

5745MHz_TX

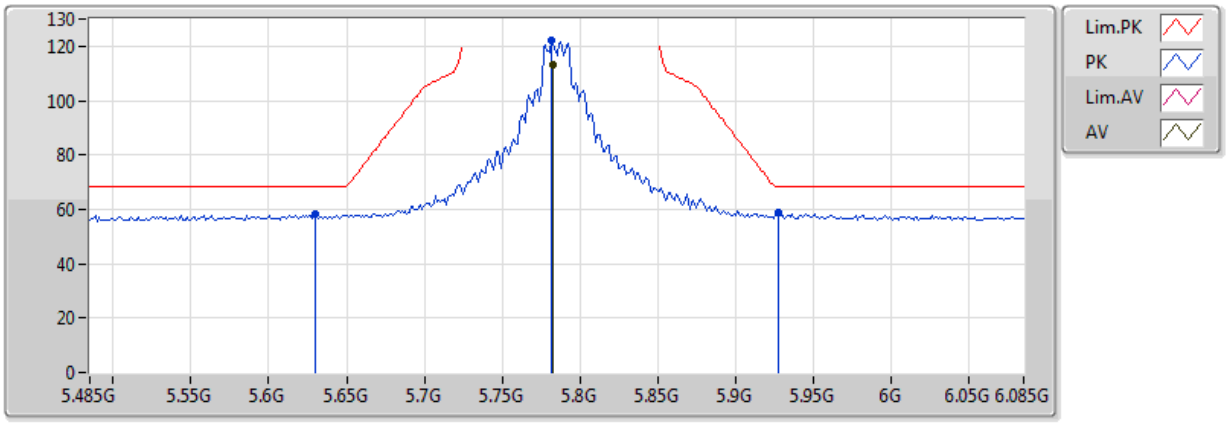


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.2347G	52.87	54.00	-1.13	20.08	3	Horizontal	197	1.74	-	32.79	41.60	10.47	31.98
PK	17.22978G	66.78	74.00	-7.22	20.05	3	Horizontal	197	1.74	-	46.74	41.56	10.47	31.98

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

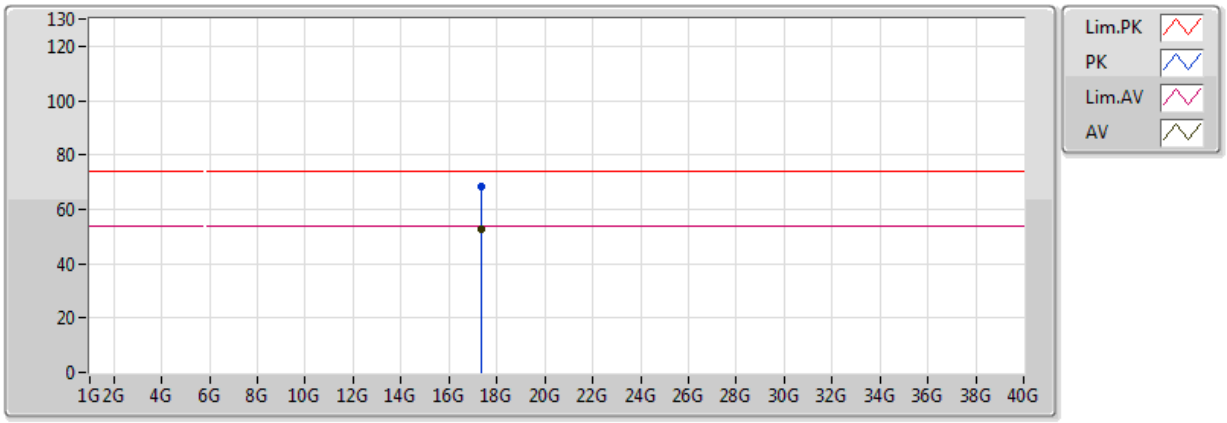


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7826G	113.07	Inf	-Inf	3.50	3	Vertical	335	1.62	-	109.57	32.24	6.45	35.19
PK	5.6302G	58.25	68.20	-9.95	3.38	3	Vertical	335	1.62	-	54.88	32.06	6.50	35.18
PK	5.7814G	122.12	Inf	-Inf	3.50	3	Vertical	335	1.62	-	118.62	32.24	6.45	35.19
PK	5.9278G	58.95	68.20	-9.25	3.62	3	Vertical	335	1.62	-	55.33	32.41	6.40	35.19

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

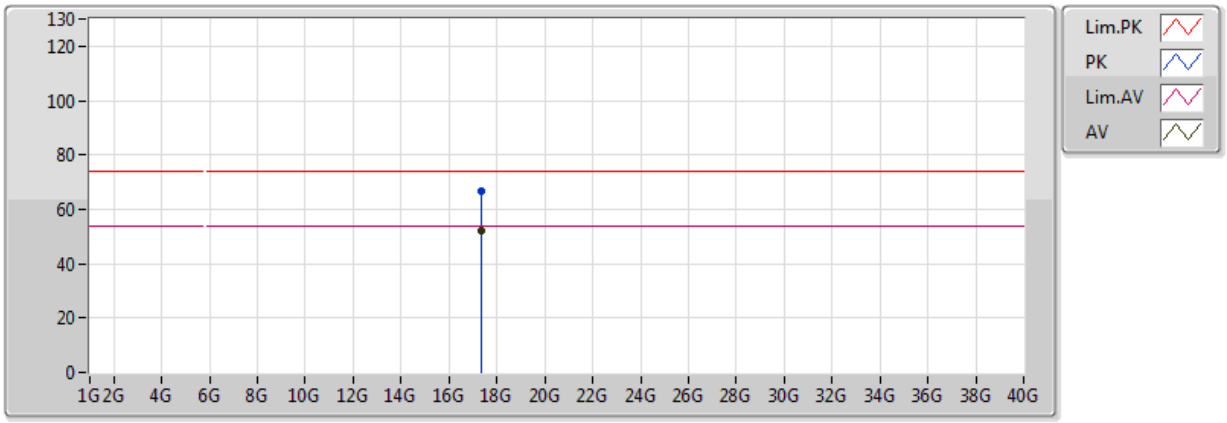


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.3556G	52.94	54.00	-1.06	20.99	3	Vertical	172	1.81	-	31.95	42.42	10.53	31.95
PK	17.36148G	68.38	74.00	-5.62	21.03	3	Vertical	172	1.81	-	47.35	42.46	10.53	31.95

802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX

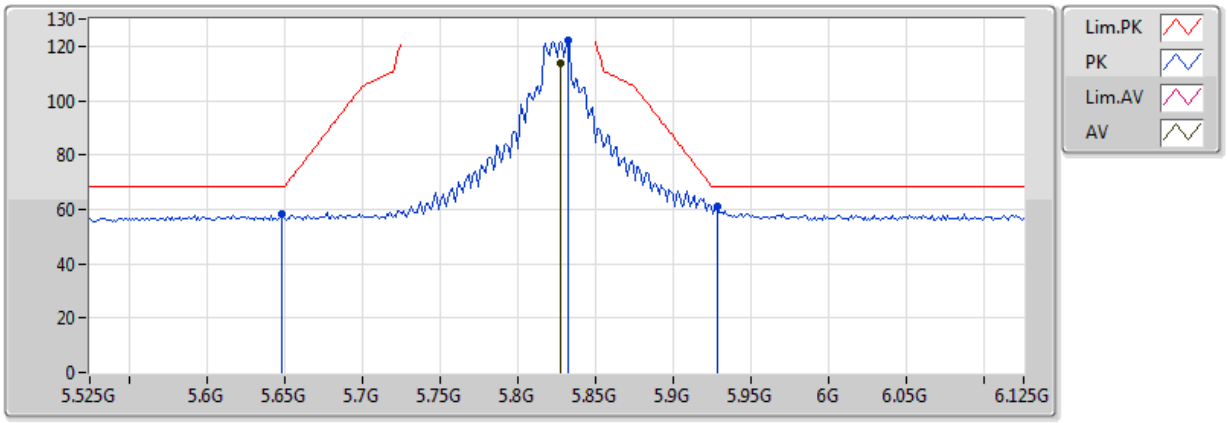


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.3556G	51.99	54.00	-2.01	20.99	3	Horizontal	160	1.50	-	31.00	42.42	10.53	31.95
PK	17.361G	66.43	74.00	-7.57	21.03	3	Horizontal	160	1.50	-	45.40	42.45	10.53	31.95

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

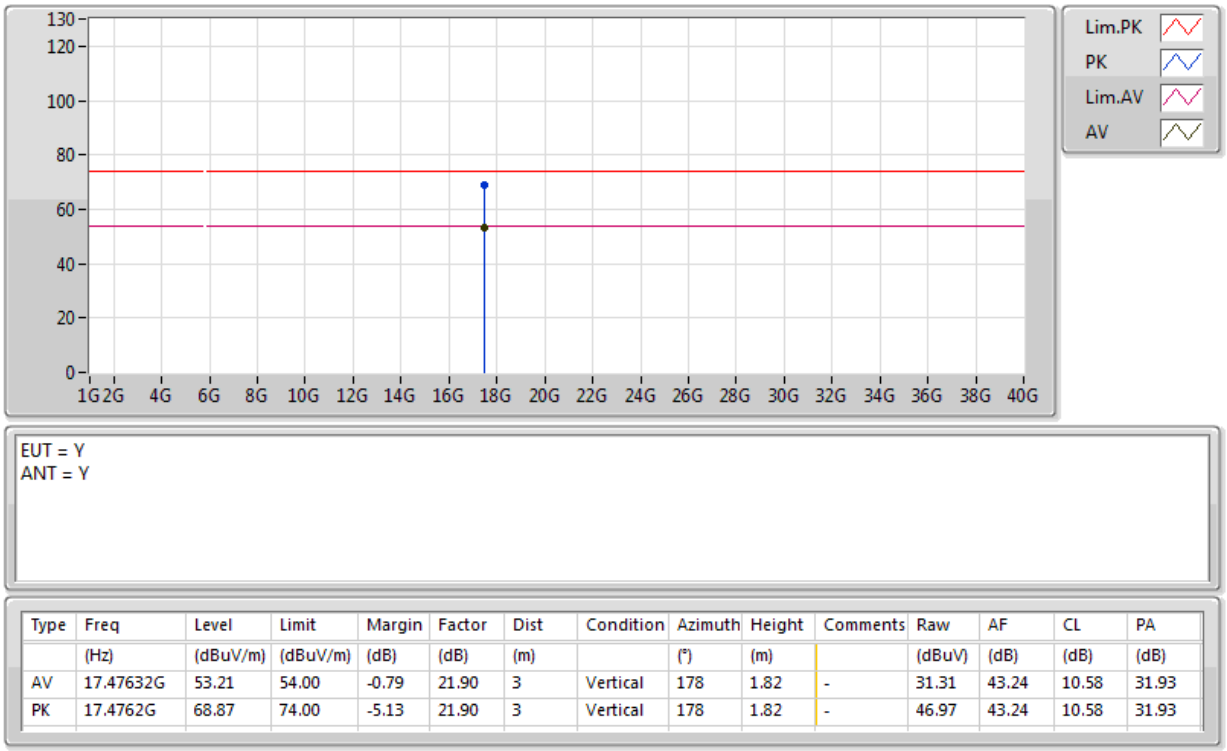


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8274G	113.62	Inf	-Inf	3.53	3	Vertical	335	1.65	-	110.08	32.29	6.43	35.19
PK	5.6486G	58.22	68.20	-9.98	3.39	3	Vertical	335	1.65	-	54.82	32.08	6.50	35.18
PK	5.8322G	121.91	Inf	-Inf	3.54	3	Vertical	335	1.65	-	118.37	32.30	6.43	35.19
PK	5.9282G	60.99	68.20	-7.21	3.62	3	Vertical	335	1.65	-	57.37	32.41	6.40	35.19

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

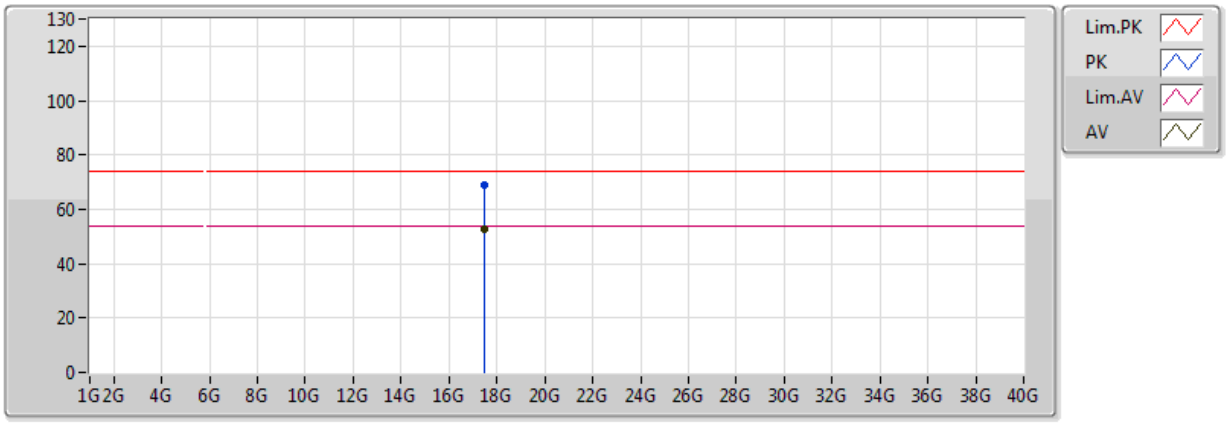


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.47632G	53.21	54.00	-0.79	21.90	3	Vertical	178	1.82	-	31.31	43.24	10.58	31.93
PK	17.4762G	68.87	74.00	-5.13	21.90	3	Vertical	178	1.82	-	46.97	43.24	10.58	31.93

802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX

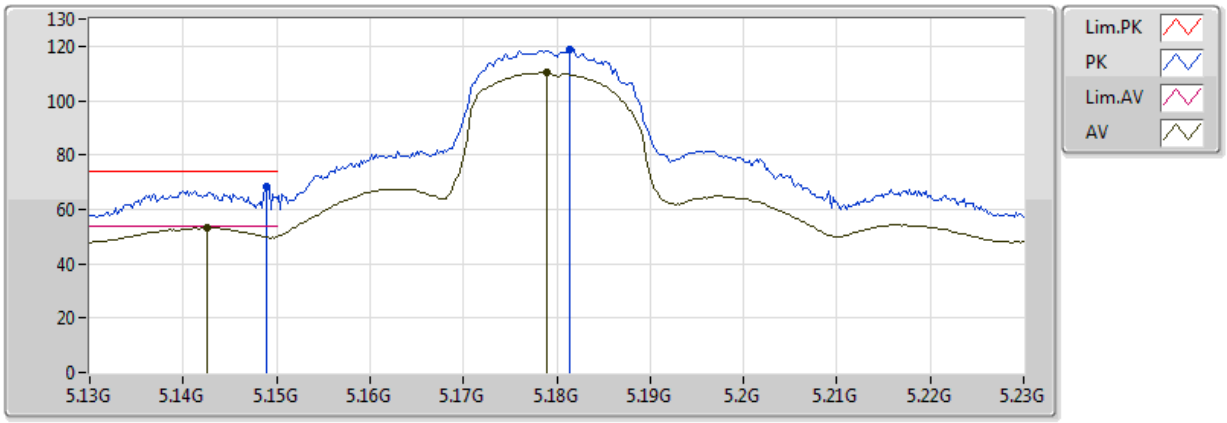


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.47626G	52.68	54.00	-1.32	21.90	3	Horizontal	162	1.50	-	30.78	43.24	10.58	31.93
PK	17.48118G	68.69	74.00	-5.31	21.93	3	Horizontal	162	1.50	-	46.76	43.27	10.59	31.92

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

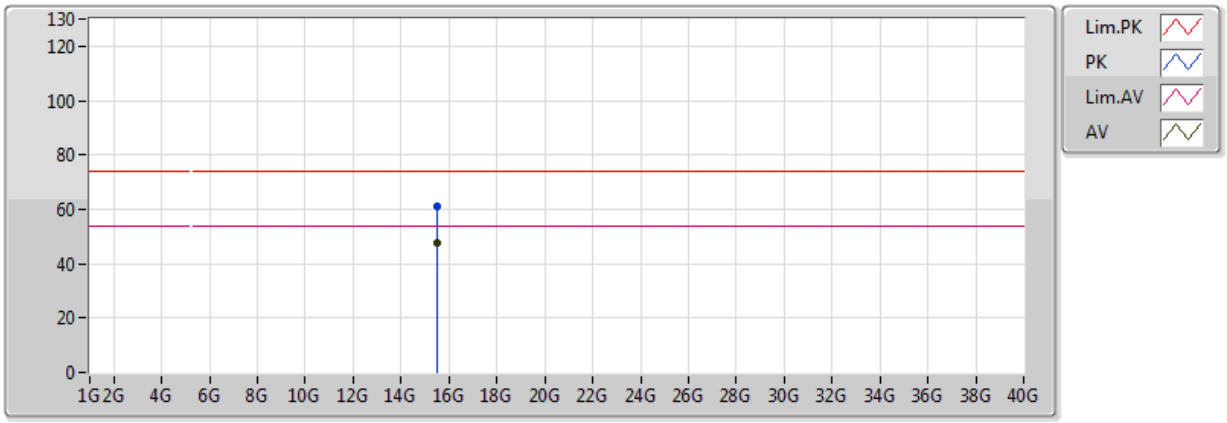


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1426G	53.28	54.00	-0.72	2.89	3	Vertical	1	1.71	-	50.39	31.61	6.48	35.21
AV	5.179G	110.29	Inf	-Inf	2.93	3	Vertical	1	1.71	-	107.36	31.64	6.49	35.20
PK	5.149G	68.31	74.00	-5.69	2.90	3	Vertical	1	1.71	-	65.41	31.62	6.48	35.21
PK	5.1814G	118.88	Inf	-Inf	2.93	3	Vertical	1	1.71	-	115.95	31.65	6.49	35.20

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

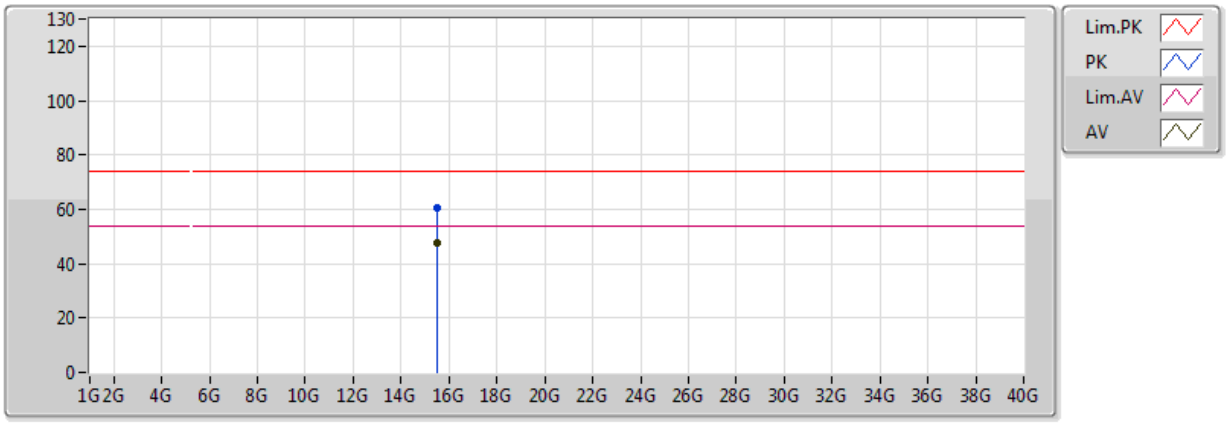


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.5274G	47.48	54.00	-6.52	16.87	3	Vertical	58	1.11	-	30.61	38.90	9.95	31.98
PK	15.52908G	61.31	74.00	-12.69	16.86	3	Vertical	58	1.11	-	44.45	38.89	9.95	31.98

802.11ac VHT20_Nss1,(MCS0)_2TX

5180MHz_TX

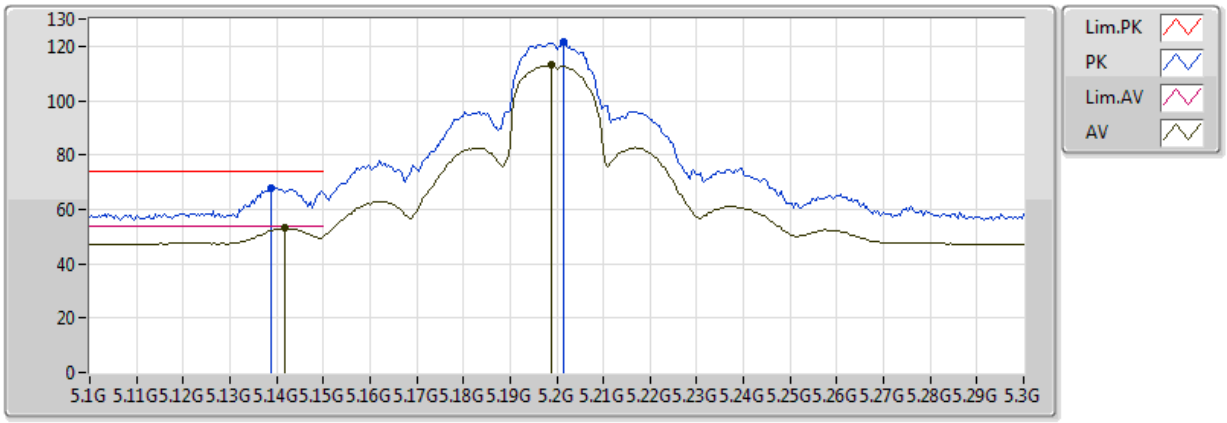


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.52716G	47.54	54.00	-6.46	16.87	3	Horizontal	146	1.77	-	30.67	38.90	9.95	31.98
PK	15.52908G	60.72	74.00	-13.28	16.86	3	Horizontal	146	1.77	-	43.86	38.89	9.95	31.98

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

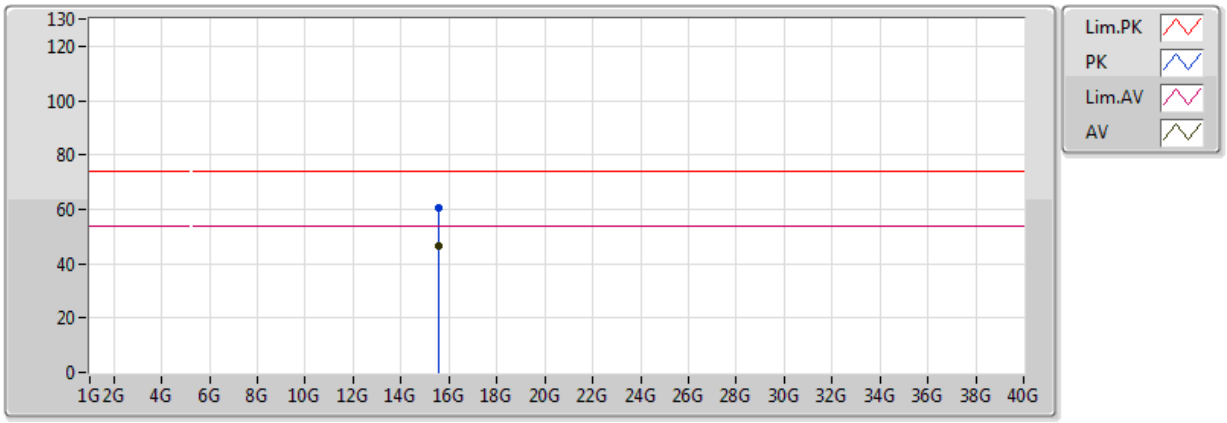


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1416G	52.98	54.00	-1.02	2.89	3	Vertical	1	1.81	-	50.09	31.61	6.48	35.21
AV	5.1988G	113.00	Inf	-Inf	2.95	3	Vertical	1	1.81	-	110.05	31.66	6.49	35.20
PK	5.1388G	67.91	74.00	-6.09	2.89	3	Vertical	1	1.81	-	65.02	31.61	6.48	35.21
PK	5.2016G	121.84	Inf	-Inf	2.95	3	Vertical	1	1.81	-	118.89	31.66	6.49	35.20

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

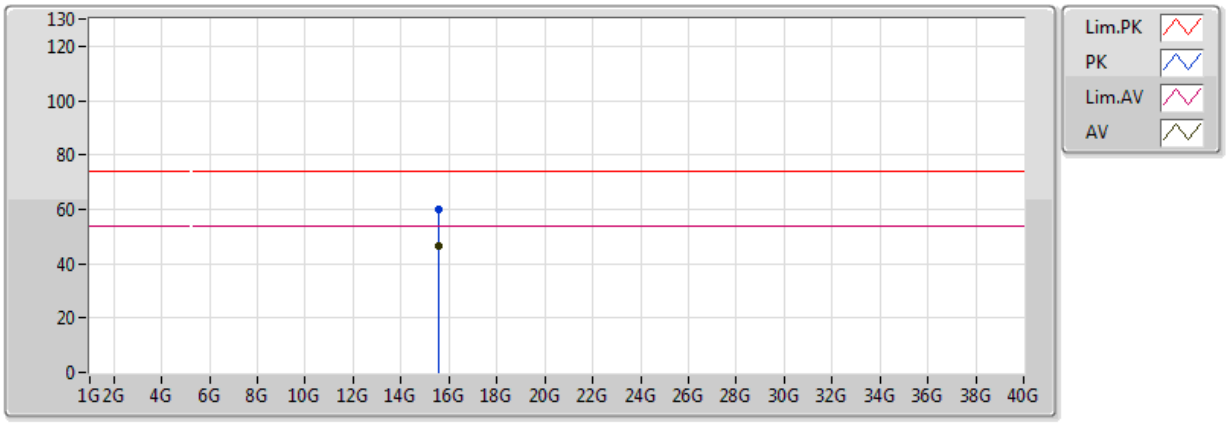


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.58818G	46.69	54.00	-7.31	16.64	3	Vertical	270	2.47	-	30.04	38.66	9.97	31.99
PK	15.58614G	60.31	74.00	-13.69	16.65	3	Vertical	270	2.47	-	43.66	38.67	9.97	31.99

802.11ac VHT20_Nss1,(MCS0)_2TX

5200MHz_TX

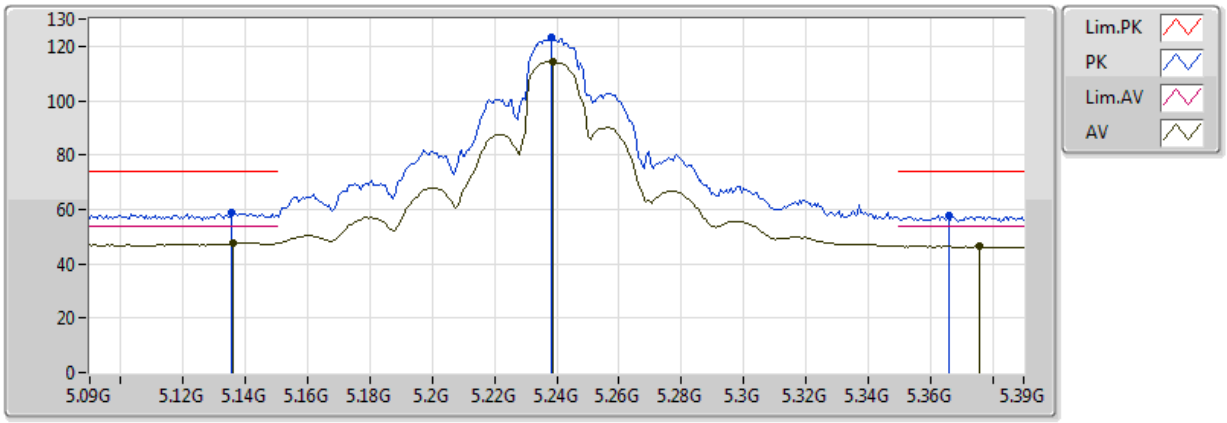


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.58566G	46.65	54.00	-7.35	16.65	3	Horizontal	92	1.18	-	29.99	38.67	9.97	31.99
PK	15.5943G	59.79	74.00	-14.21	16.62	3	Horizontal	92	1.18	-	43.17	38.64	9.97	31.99

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

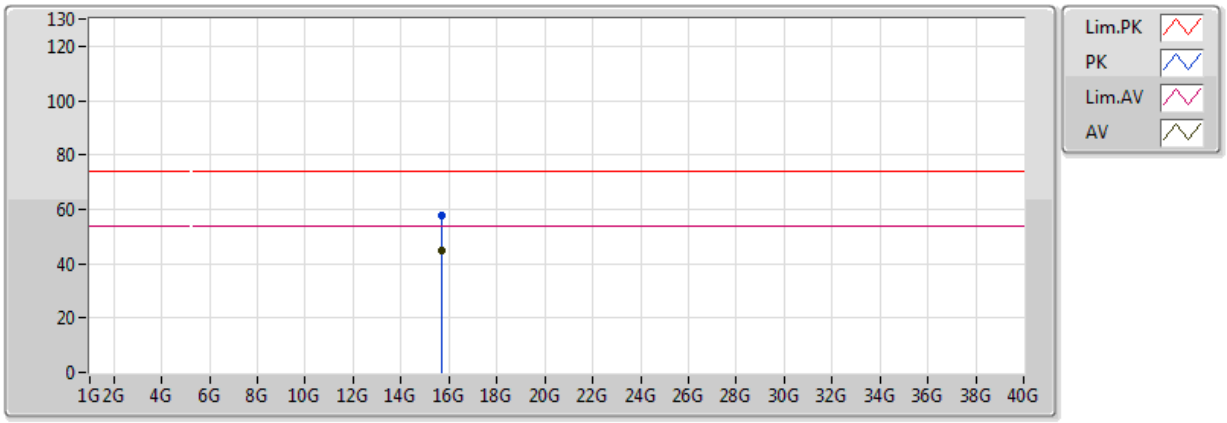


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1362G	47.89	54.00	-6.11	2.89	3	Vertical	359	1.77	-	45.01	31.61	6.48	35.21
AV	5.2388G	114.56	Inf	-Inf	2.99	3	Vertical	359	1.77	-	111.56	31.69	6.50	35.20
AV	5.3756G	46.63	54.00	-7.37	3.14	3	Vertical	359	1.77	-	43.49	31.80	6.52	35.18
PK	5.1356G	59.00	74.00	-15.00	2.89	3	Vertical	359	1.77	-	56.11	31.61	6.48	35.21
PK	5.2382G	123.06	Inf	-Inf	2.99	3	Vertical	359	1.77	-	120.07	31.69	6.50	35.20
PK	5.366G	57.80	74.00	-16.20	3.13	3	Vertical	359	1.77	-	54.67	31.79	6.52	35.18

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

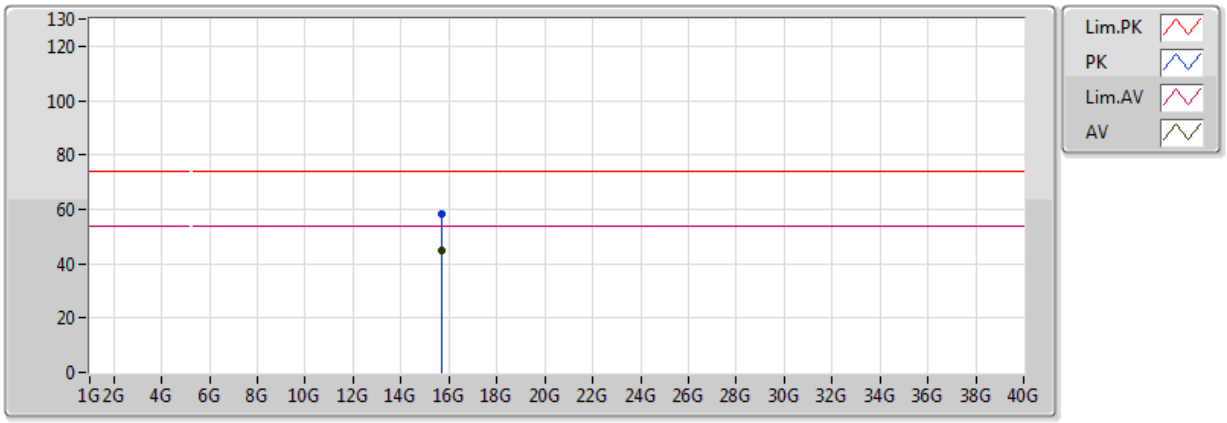


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.70788G	44.59	54.00	-9.41	16.21	3	Vertical	175	1.09	-	28.38	38.21	10.00	32.00
PK	15.70554G	57.77	74.00	-16.23	16.22	3	Vertical	175	1.09	-	41.55	38.22	10.00	32.00

802.11ac VHT20_Nss1,(MCS0)_2TX

5240MHz_TX

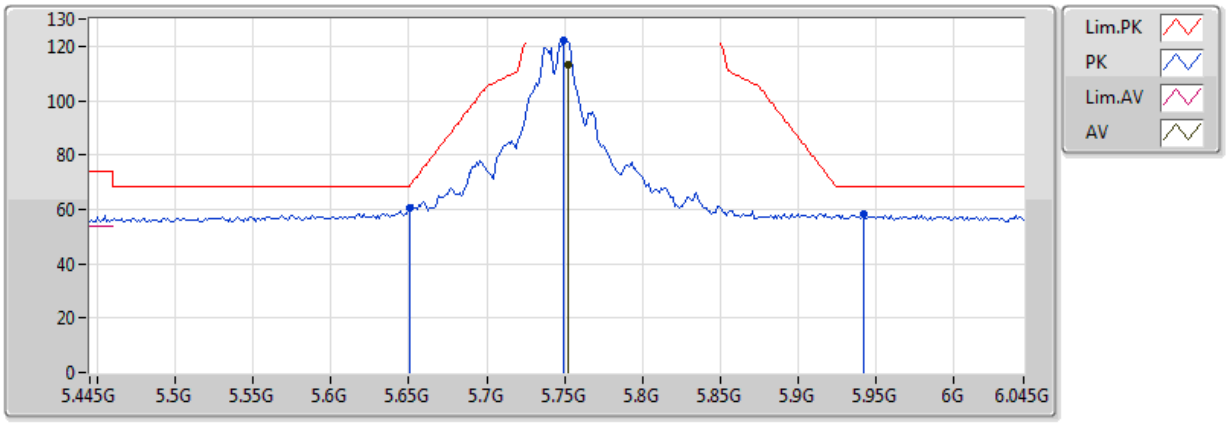


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.70536G	44.66	54.00	-9.34	16.22	3	Horizontal	346	1.42	-	28.44	38.22	10.00	32.00
PK	15.72048G	58.06	74.00	-15.94	16.16	3	Horizontal	346	1.42	-	41.89	38.16	10.00	32.00

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

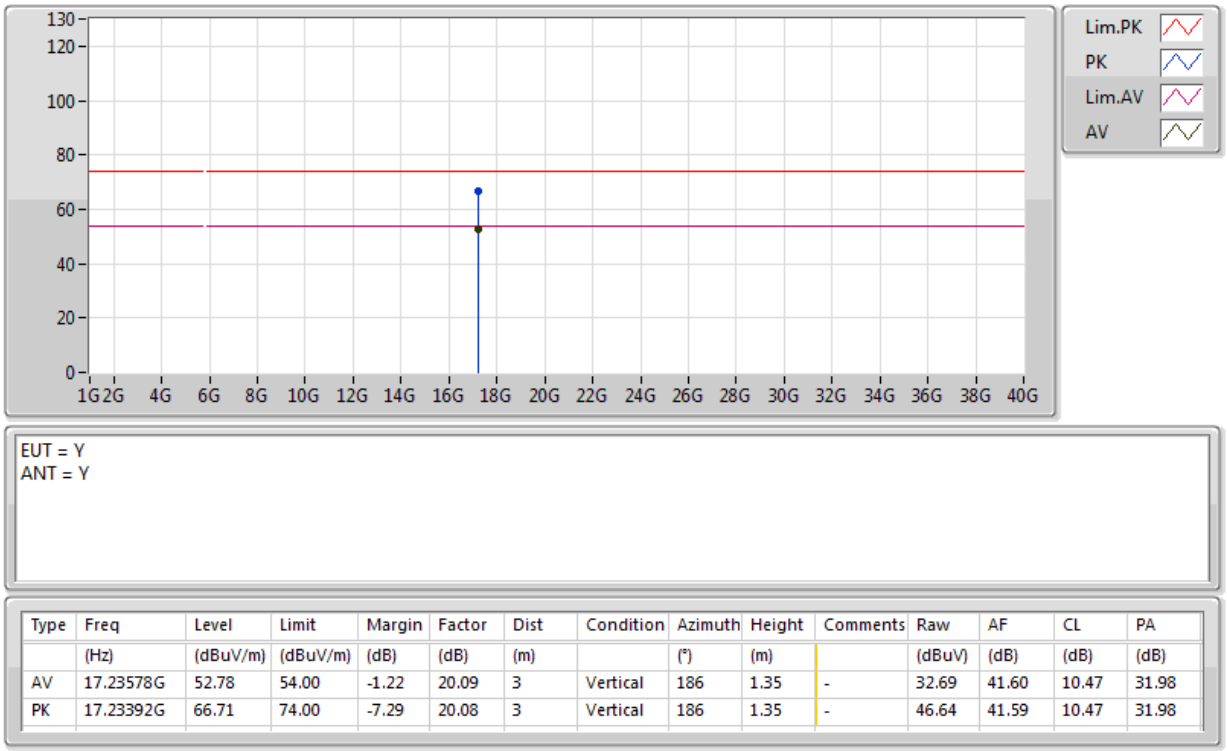


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7522G	113.36	Inf	-Inf	3.48	3	Vertical	335	1.52	-	109.89	32.20	6.46	35.19
PK	5.6502G	60.65	68.35	-7.70	3.40	3	Vertical	335	1.52	-	57.25	32.08	6.49	35.18
PK	5.7498G	122.16	Inf	-Inf	3.47	3	Vertical	335	1.52	-	118.68	32.20	6.46	35.18
PK	5.9418G	58.20	68.20	-10.00	3.63	3	Vertical	335	1.52	-	54.57	32.43	6.40	35.19

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

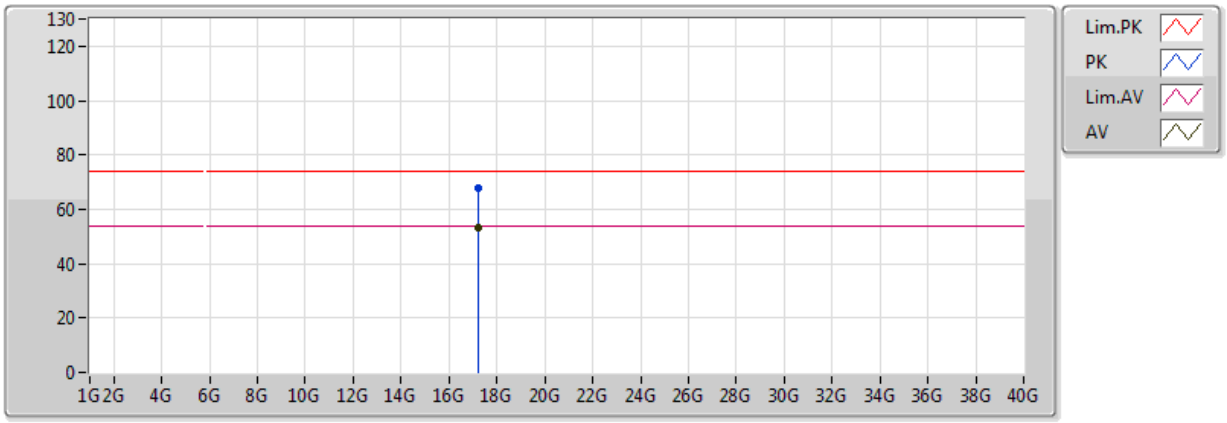


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.23578G	52.78	54.00	-1.22	20.09	3	Vertical	186	1.35	-	32.69	41.60	10.47	31.98
PK	17.23392G	66.71	74.00	-7.29	20.08	3	Vertical	186	1.35	-	46.64	41.59	10.47	31.98

802.11ac VHT20_Nss1,(MCS0)_2TX

5745MHz_TX

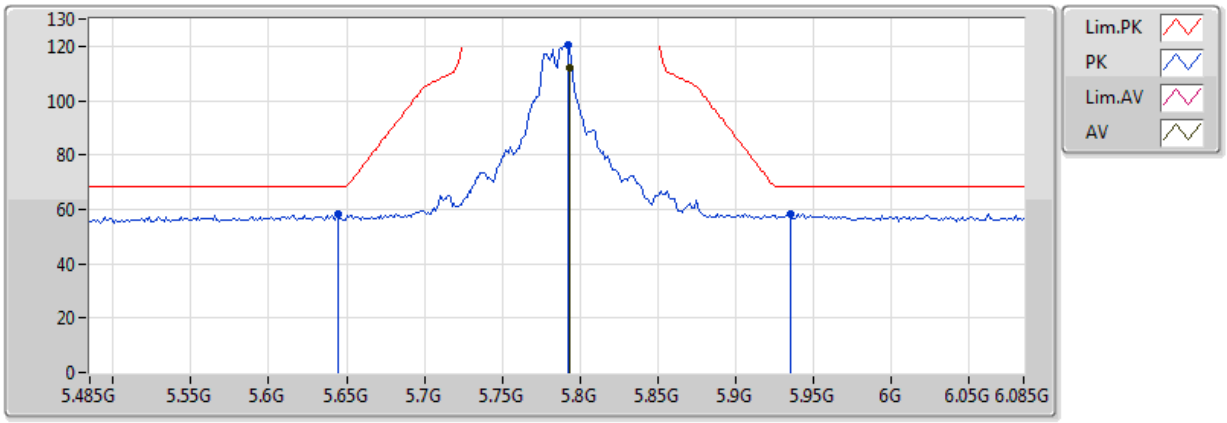


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.2335G	53.07	54.00	-0.93	20.07	3	Horizontal	161	1.62	-	32.99	41.59	10.47	31.98
PK	17.23266G	67.65	74.00	-6.35	20.07	3	Horizontal	161	1.62	-	47.58	41.58	10.47	31.98

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

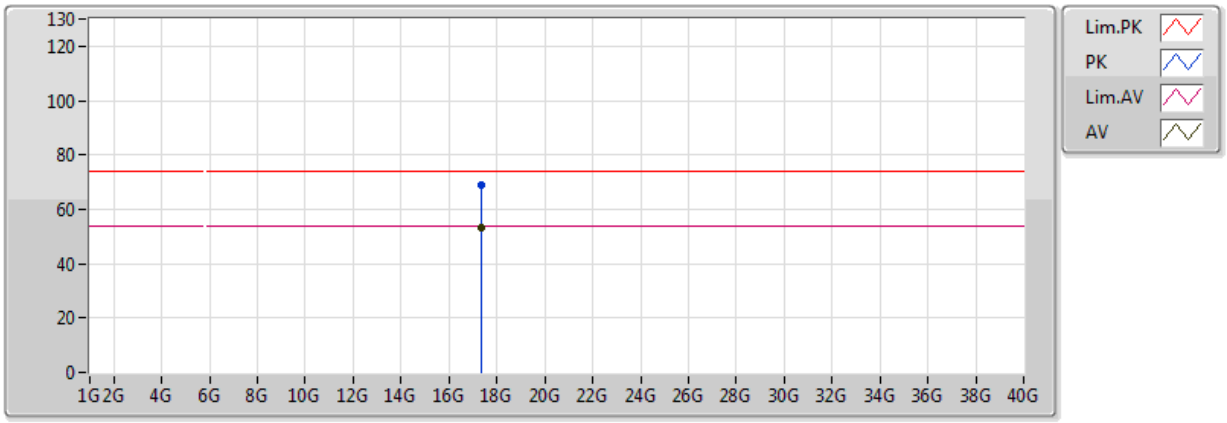


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7934G	111.92	Inf	-Inf	3.51	3	Vertical	332	1.54	-	108.42	32.25	6.44	35.19
PK	5.6446G	58.20	68.20	-10.00	3.39	3	Vertical	332	1.54	-	54.81	32.07	6.50	35.18
PK	5.7922G	120.42	Inf	-Inf	3.50	3	Vertical	332	1.54	-	116.92	32.25	6.44	35.19
PK	5.935G	58.28	68.20	-9.92	3.63	3	Vertical	332	1.54	-	54.65	32.42	6.40	35.19

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

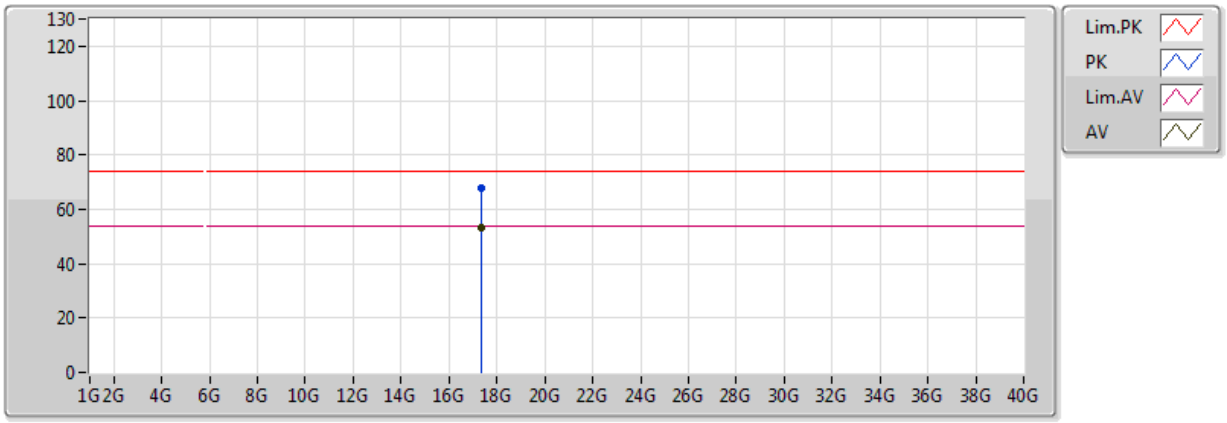


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.35806G	53.06	54.00	-0.94	21.01	3	Vertical	176	1.84	-	32.05	42.43	10.53	31.95
PK	17.35374G	69.15	74.00	-4.85	20.98	3	Vertical	176	1.84	-	48.17	42.41	10.53	31.96

802.11ac VHT20_Nss1,(MCS0)_2TX

5785MHz_TX

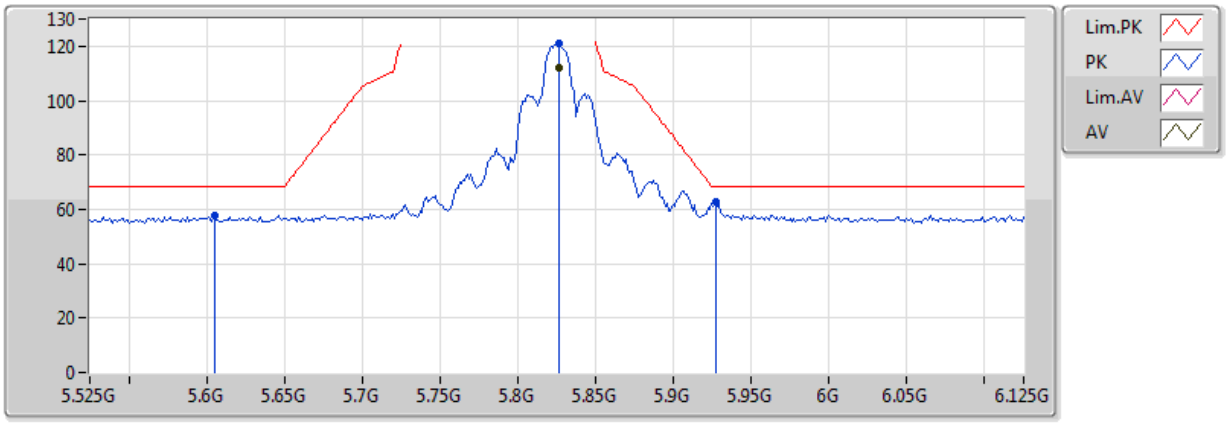


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.35584G	53.05	54.00	-0.95	20.99	3	Horizontal	160	1.44	-	32.06	42.42	10.53	31.95
PK	17.35476G	67.71	74.00	-6.29	20.98	3	Horizontal	160	1.44	-	46.73	42.41	10.53	31.95

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

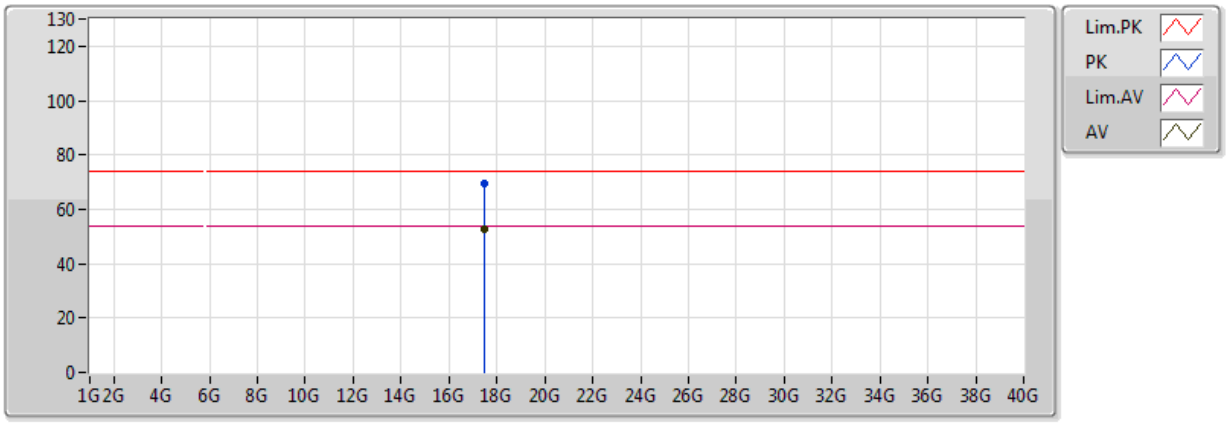


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8262G	112.11	Inf	-Inf	3.53	3	Vertical	5	1.52	-	108.57	32.29	6.43	35.19
PK	5.6054G	57.92	68.20	-10.28	3.35	3	Vertical	5	1.52	-	54.56	32.03	6.51	35.18
PK	5.8262G	121.20	Inf	-Inf	3.53	3	Vertical	5	1.52	-	117.66	32.29	6.43	35.19
PK	5.927G	62.74	68.20	-5.46	3.62	3	Vertical	5	1.52	-	59.12	32.41	6.40	35.19

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

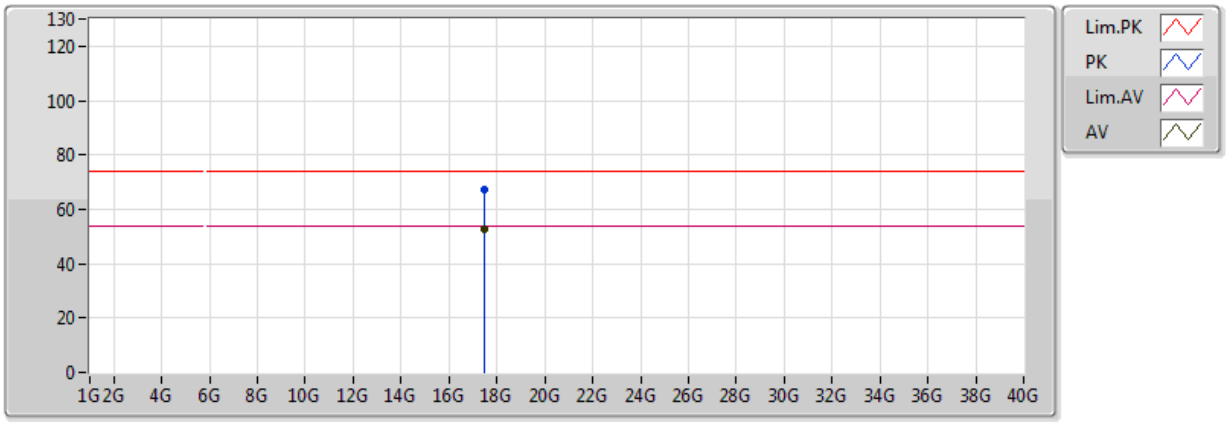


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.48088G	52.94	54.00	-1.06	21.93	3	Vertical	176	1.85	-	31.01	43.27	10.59	31.92
PK	17.48022G	69.48	74.00	-4.52	21.93	3	Vertical	176	1.85	-	47.55	43.27	10.59	31.92

802.11ac VHT20_Nss1,(MCS0)_2TX

5825MHz_TX

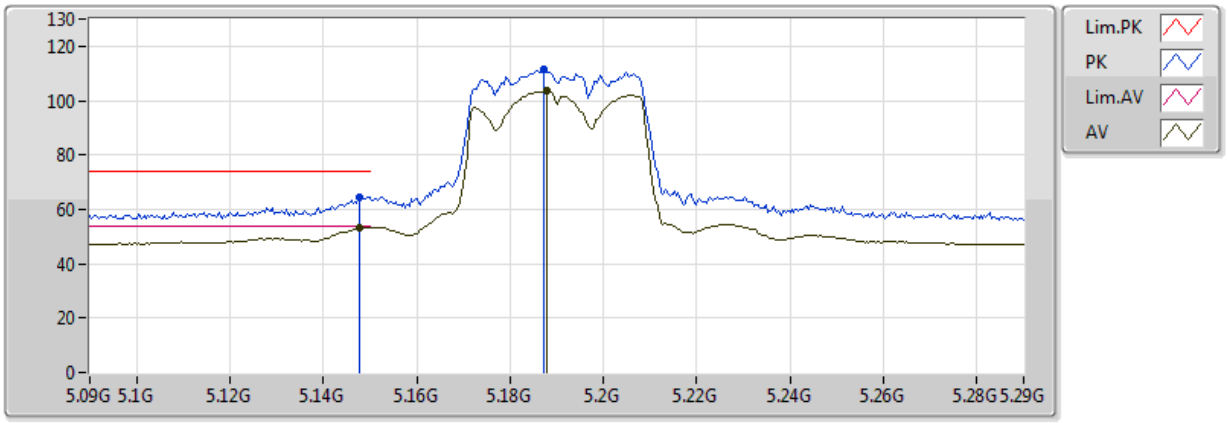


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.47908G	52.42	54.00	-1.58	21.92	3	Horizontal	161	1.49	-	30.51	43.26	10.59	31.93
PK	17.47968G	67.24	74.00	-6.76	21.92	3	Horizontal	161	1.49	-	45.32	43.26	10.59	31.92

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

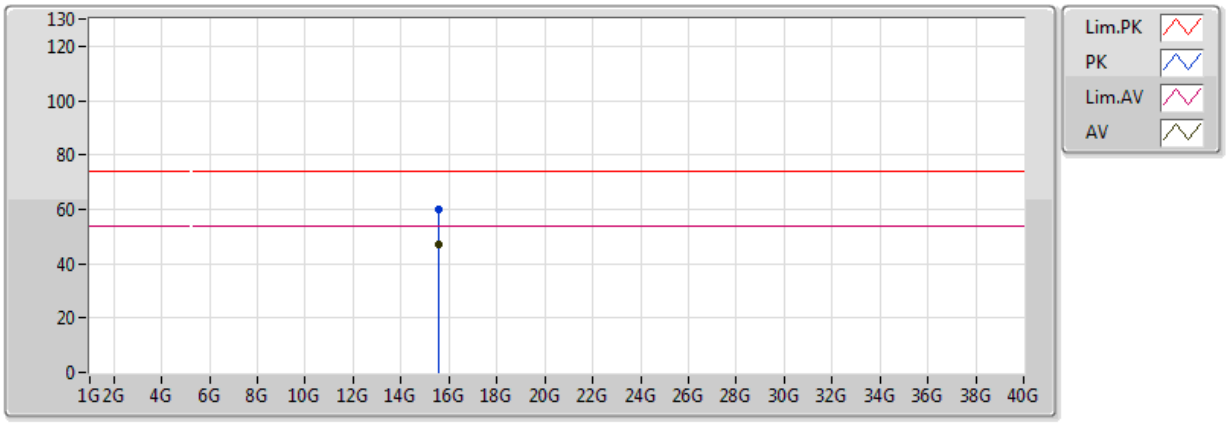


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.1476G	53.25	54.00	-0.75	2.90	3	Vertical	335	1.67	-	50.35	31.62	6.48	35.21
AV	5.188G	103.39	Inf	-Inf	2.94	3	Vertical	355	1.67	-	100.45	31.65	6.49	35.20
PK	5.1476G	64.26	74.00	-9.74	2.90	3	Vertical	355	1.67	-	61.36	31.62	6.48	35.21
PK	5.1872G	111.62	Inf	-Inf	2.94	3	Vertical	355	1.67	-	108.69	31.65	6.49	35.20

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

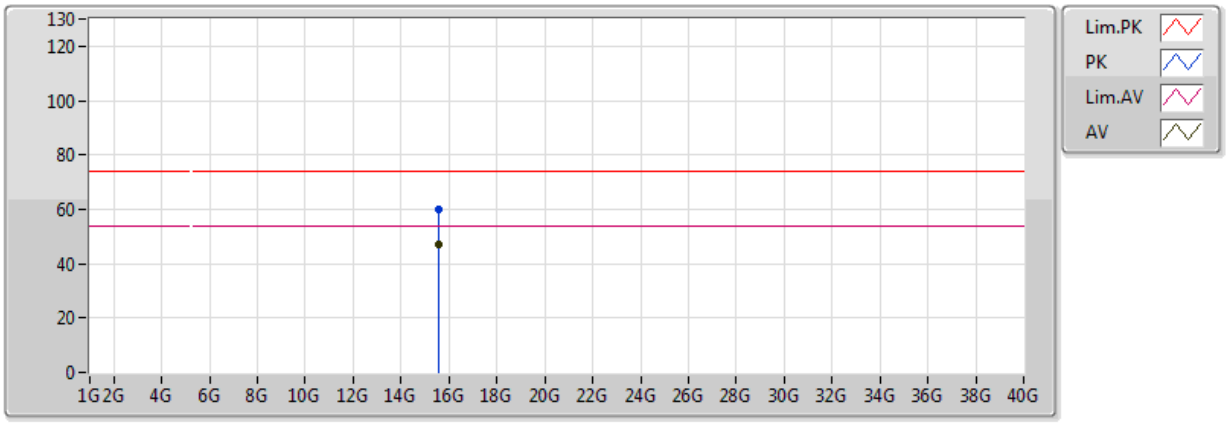


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.55908G	47.25	54.00	-6.75	16.75	3	Vertical	206	1.23	-	30.50	38.78	9.96	31.98
PK	15.56436G	60.22	74.00	-13.78	16.73	3	Vertical	206	1.23	-	43.49	38.76	9.96	31.99

802.11ac VHT40_Nss1,(MCS0)_2TX

5190MHz_TX

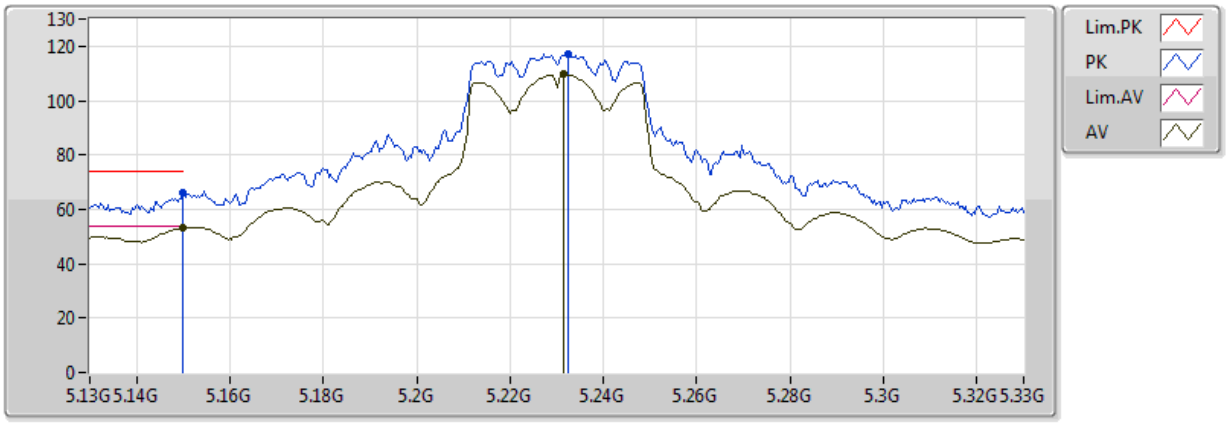


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.555G	47.31	54.00	-6.69	16.77	3	Horizontal	61	1.93	-	30.54	38.79	9.96	31.98
PK	15.55878G	60.22	74.00	-13.78	16.75	3	Horizontal	61	1.93	-	43.47	38.78	9.96	31.98

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

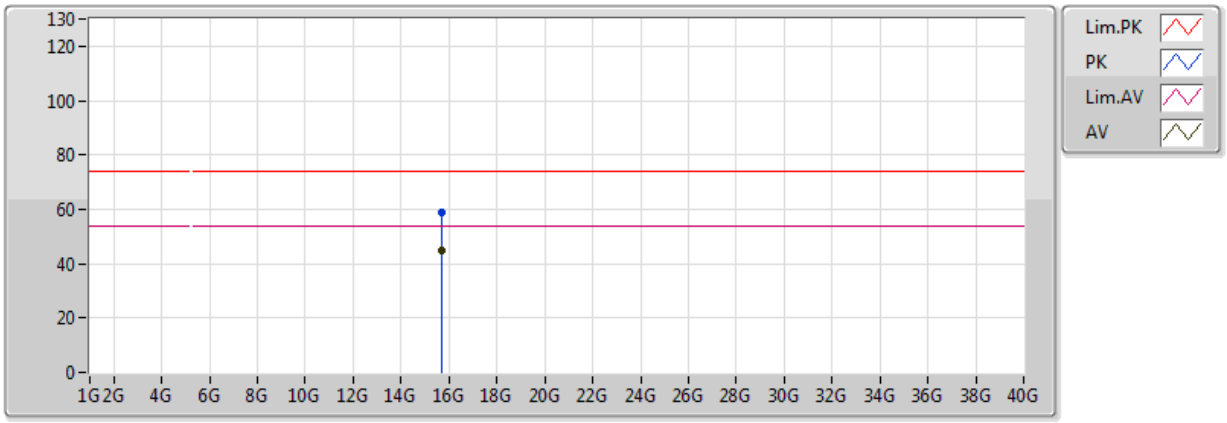


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	53.12	54.00	-0.88	2.90	3	Vertical	3	1.71	-	50.22	31.62	6.48	35.21
AV	5.2316G	109.68	Inf	-Inf	2.98	3	Vertical	3	1.71	-	106.70	31.69	6.50	35.20
PK	5.149995G	66.27	74.00	-7.73	2.90	3	Vertical	3	1.71	-	63.37	31.62	6.48	35.21
PK	5.2324G	117.28	Inf	-Inf	2.99	3	Vertical	3	1.71	-	114.30	31.69	6.50	35.20

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

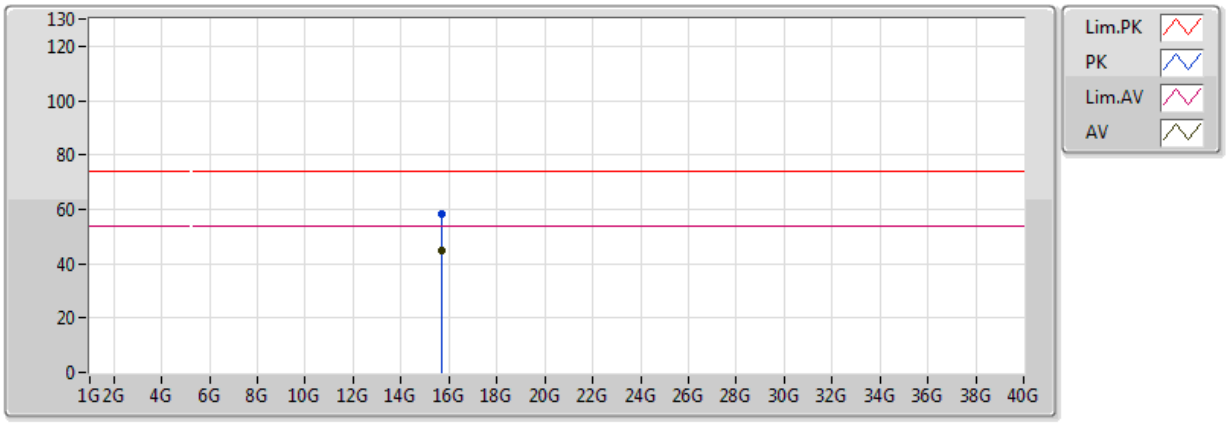


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.67518G	45.05	54.00	-8.95	16.33	3	Vertical	106	2.00	-	28.72	38.33	9.99	31.99
PK	15.69006G	59.11	74.00	-14.89	16.28	3	Vertical	106	2.00	-	42.84	38.28	9.99	32.00

802.11ac VHT40_Nss1,(MCS0)_2TX

5230MHz_TX

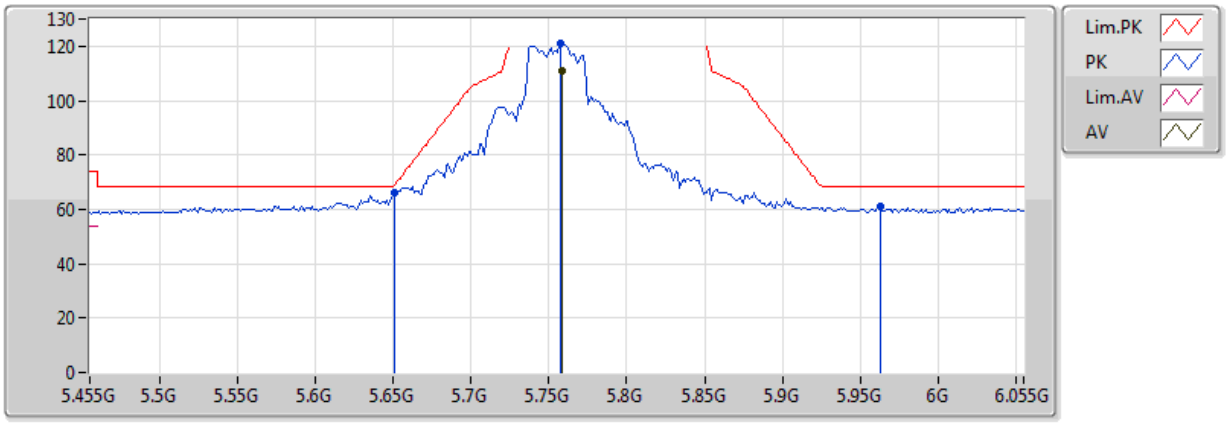


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.6753G	45.05	54.00	-8.95	16.33	3	Horizontal	147	1.35	-	28.73	38.33	9.99	31.99
PK	15.68508G	58.26	74.00	-15.74	16.29	3	Horizontal	147	1.35	-	41.96	38.30	9.99	31.99

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

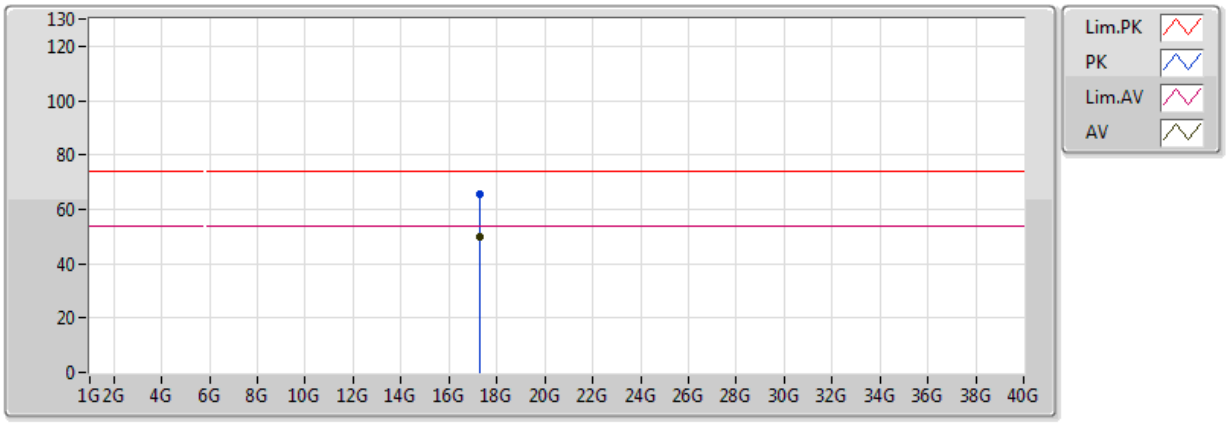


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7586G	110.72	Inf	-Inf	7.66	3	Vertical	334	1.89	-	103.06	32.21	5.86	30.41
PK	5.6506G	66.13	68.64	-2.51	7.45	3	Vertical	334	1.89	-	58.68	32.04	5.78	30.36
PK	5.7574G	121.07	Inf	-Inf	7.65	3	Vertical	334	1.89	-	113.42	32.21	5.86	30.41
PK	5.9626G	61.02	68.20	-7.18	8.03	3	Vertical	334	1.89	-	52.99	32.54	6.00	30.51

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

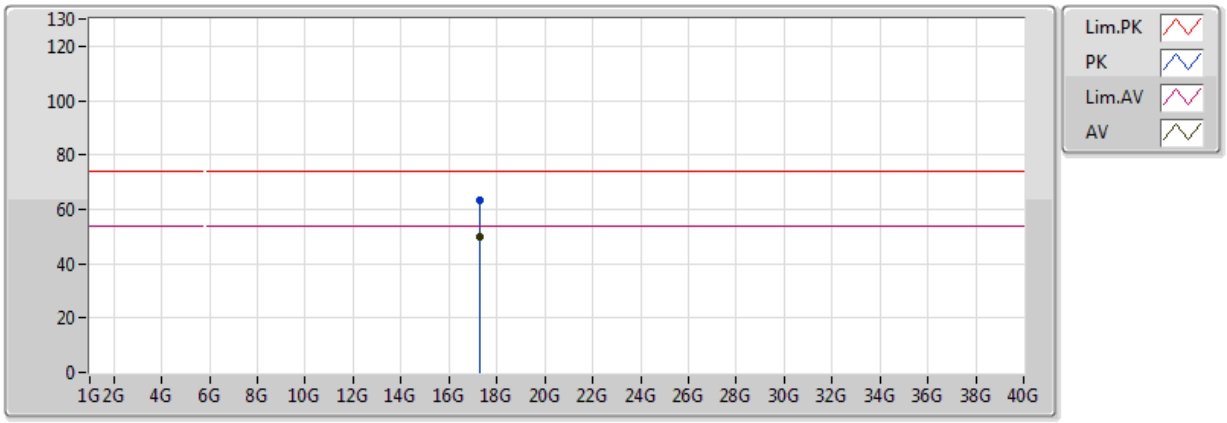


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.26566G	50.15	54.00	-3.85	20.32	3	Vertical	360	1.50	-	29.83	41.81	10.48	31.98
PK	17.2638G	65.42	74.00	-8.58	20.30	3	Vertical	360	1.50	-	45.12	41.79	10.48	31.98

802.11ac VHT40_Nss1,(MCS0)_2TX

5755MHz_TX

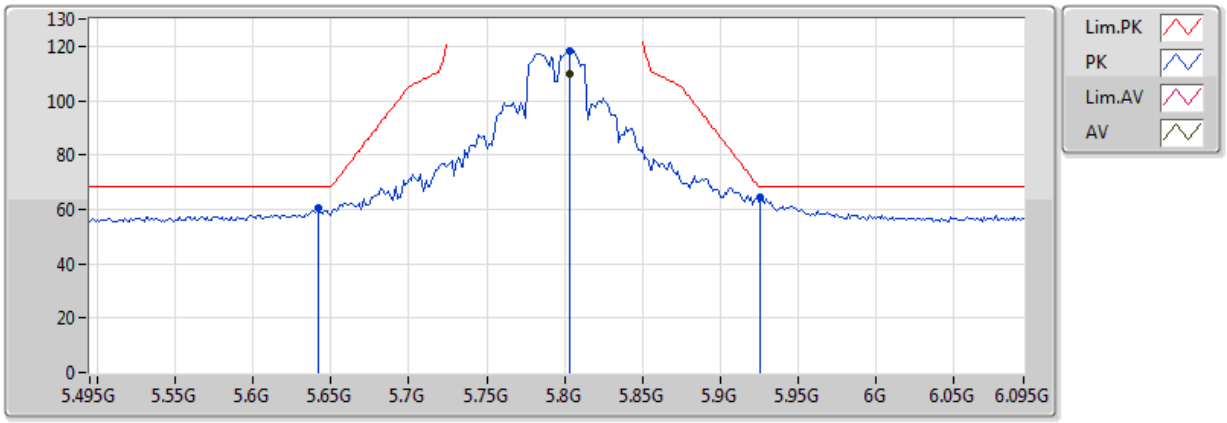


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.277G	49.95	54.00	-4.05	20.40	3	Horizontal	360	1.50	-	29.55	41.88	10.49	31.97
PK	17.25954G	63.24	74.00	-10.76	20.27	3	Horizontal	360	1.50	-	42.97	41.76	10.48	31.98

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

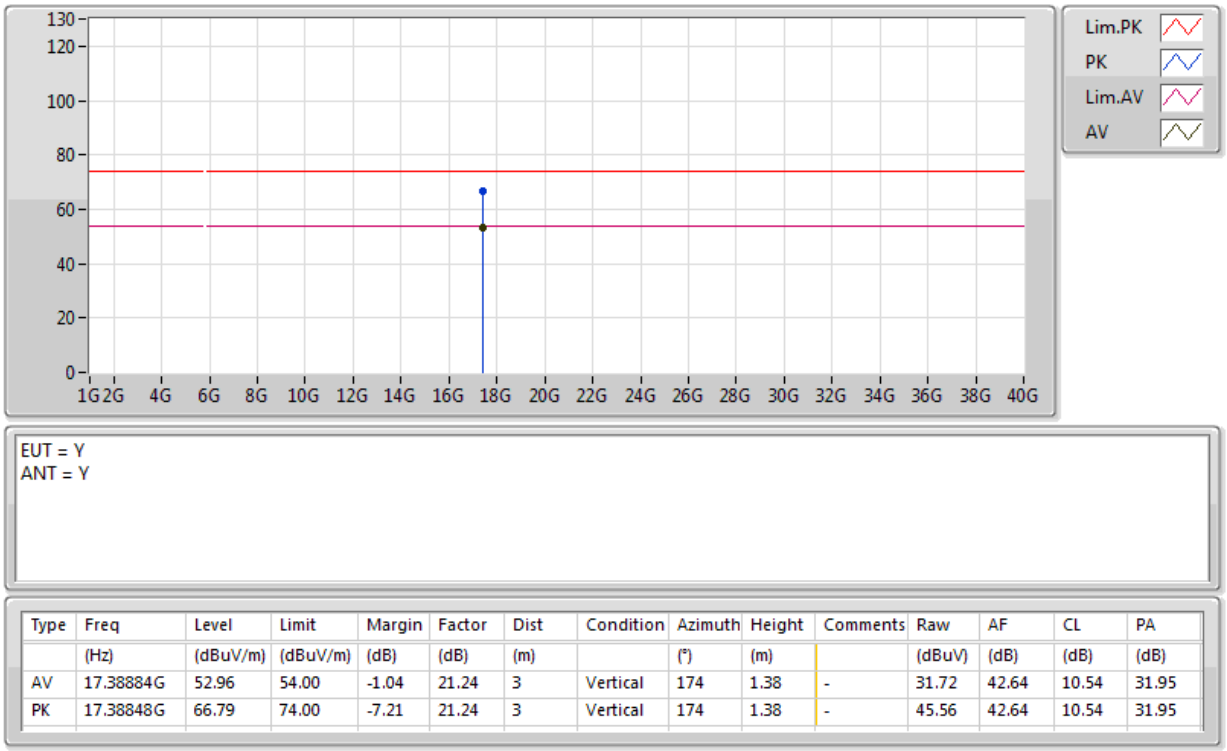


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8034G	110.03	Inf	-Inf	3.51	3	Vertical	327	1.53	-	106.51	32.26	6.44	35.19
PK	5.6414G	60.41	68.20	-7.79	3.39	3	Vertical	327	1.53	-	57.02	32.07	6.50	35.18
PK	5.8034G	118.30	Inf	-Inf	3.51	3	Vertical	327	1.53	-	114.78	32.26	6.44	35.19
PK	5.9258G	64.16	68.20	-4.04	3.62	3	Vertical	327	1.53	-	60.54	32.41	6.40	35.19

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

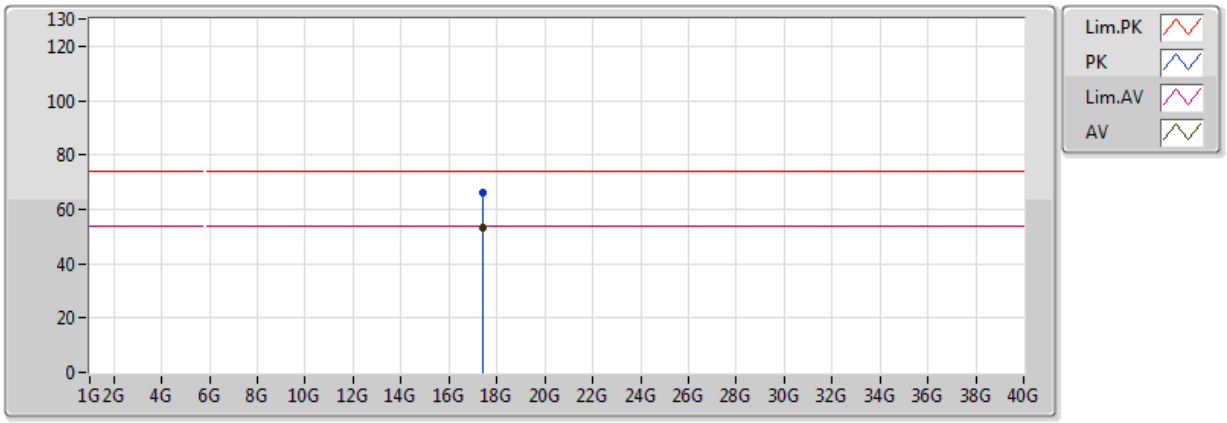


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.38884G	52.96	54.00	-1.04	21.24	3	Vertical	174	1.38	-	31.72	42.64	10.54	31.95
PK	17.38848G	66.79	74.00	-7.21	21.24	3	Vertical	174	1.38	-	45.56	42.64	10.54	31.95

802.11ac VHT40_Nss1,(MCS0)_2TX

5795MHz_TX

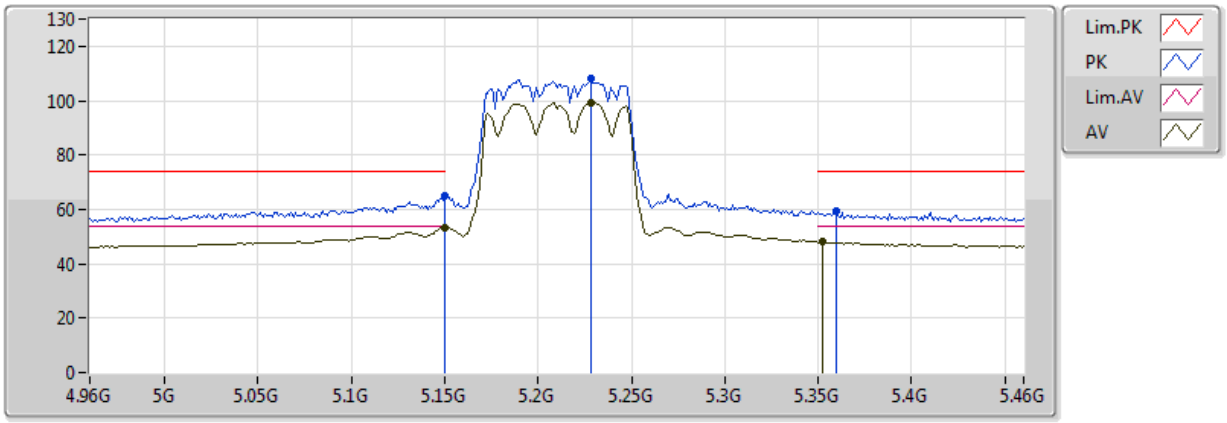


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.3886G	53.21	54.00	-0.79	21.24	3	Horizontal	160	1.56	-	31.97	42.64	10.54	31.95
PK	17.38776G	66.14	74.00	-7.86	21.23	3	Horizontal	160	1.56	-	44.91	42.64	10.54	31.95

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

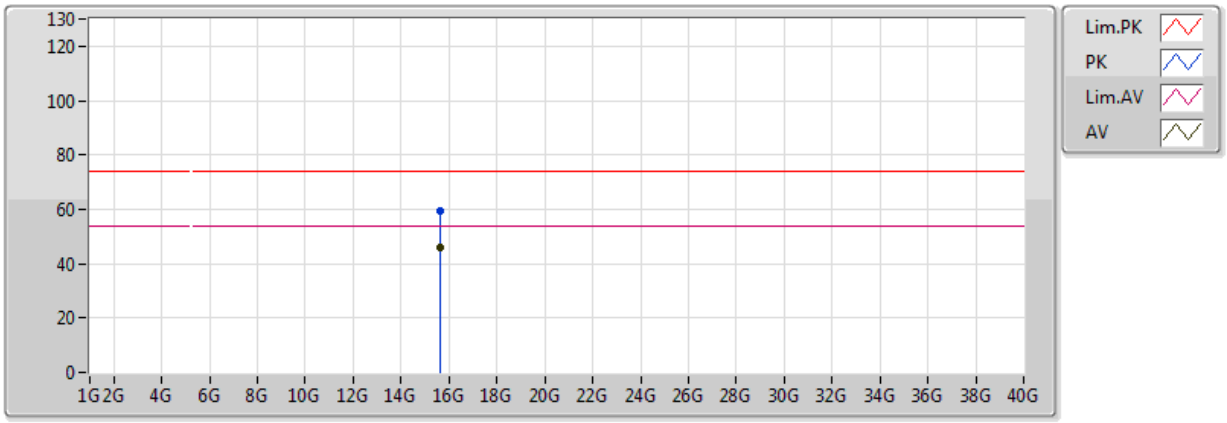


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.149995G	53.27	54.00	-0.73	2.90	3	Vertical	354	1.71	-	50.37	31.62	6.48	35.21
AV	5.228G	99.41	Inf	-Inf	2.98	3	Vertical	354	1.71	-	96.43	31.68	6.50	35.20
AV	5.352G	47.98	54.00	-6.02	3.11	3	Vertical	354	1.71	-	44.87	31.78	6.52	35.18
PK	5.149995G	65.01	74.00	-8.99	2.90	3	Vertical	354	1.71	-	62.11	31.62	6.48	35.21
PK	5.228G	107.94	Inf	-Inf	2.98	3	Vertical	354	1.71	-	104.96	31.68	6.50	35.20
PK	5.36G	59.13	74.00	-14.87	3.12	3	Vertical	354	1.71	-	56.01	31.79	6.52	35.18

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

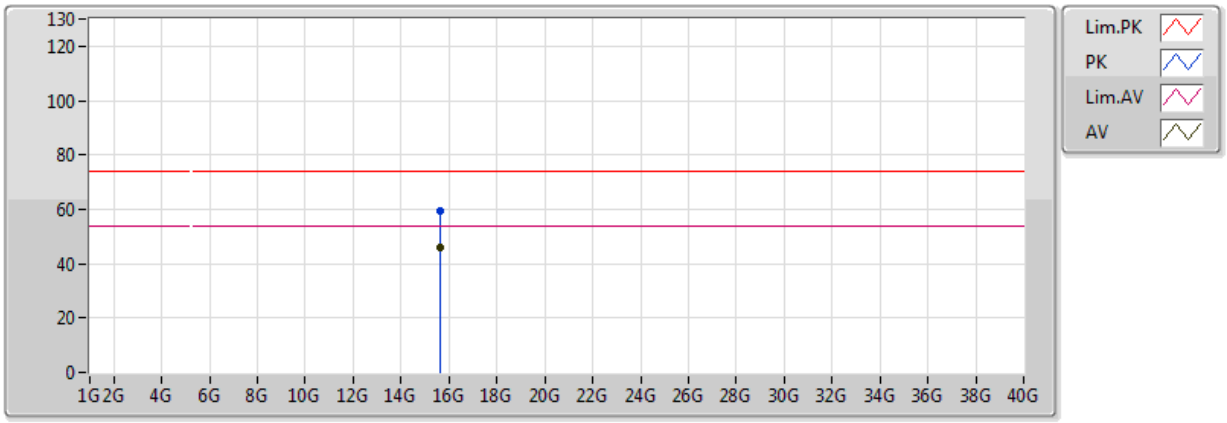


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.61644G	46.02	54.00	-7.98	16.54	3	Vertical	352	1.79	-	29.48	38.56	9.97	31.99
PK	15.636G	59.45	74.00	-14.55	16.47	3	Vertical	352	1.79	-	42.98	38.48	9.98	31.99

802.11ac VHT80_Nss1,(MCS0)_2TX

5210MHz_TX

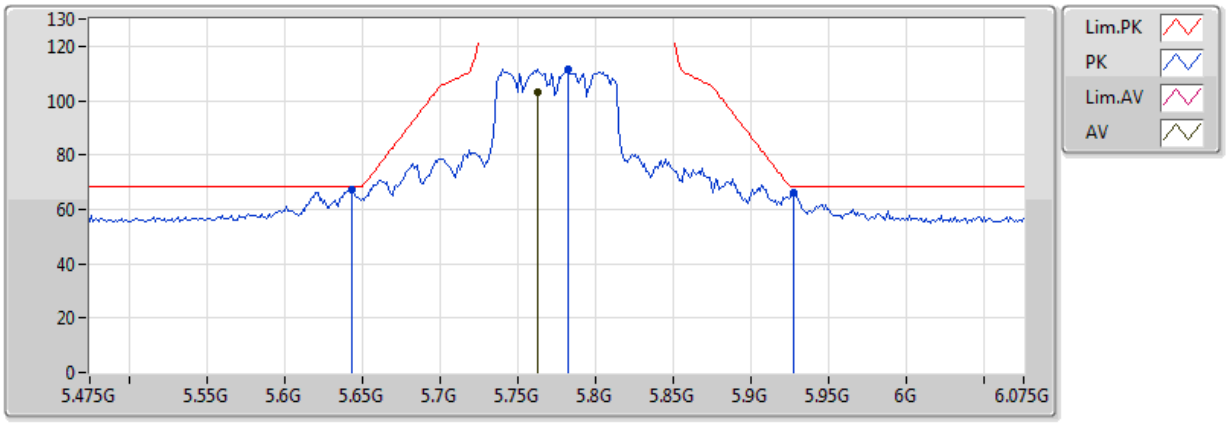


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	15.62232G	46.01	54.00	-7.99	16.52	3	Horizontal	257	2.21	-	29.49	38.54	9.98	31.99
PK	15.62394G	59.48	74.00	-14.52	16.52	3	Horizontal	257	2.21	-	42.97	38.53	9.98	31.99

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

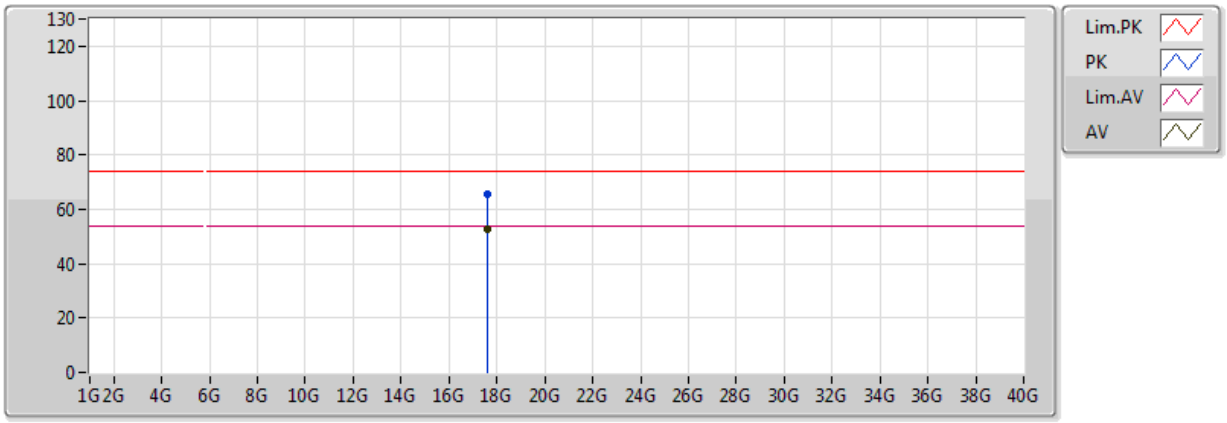


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.763G	103.34	Inf	-Inf	3.48	3	Vertical	323	1.55	-	99.86	32.22	6.45	35.19
PK	5.643G	67.45	68.20	-0.75	3.39	3	Vertical	323	1.55	-	64.07	32.07	6.50	35.18
PK	5.7822G	111.75	Inf	-Inf	3.50	3	Vertical	323	1.55	-	108.25	32.24	6.45	35.19
PK	5.9274G	66.23	68.20	-1.97	3.62	3	Vertical	323	1.55	-	62.61	32.41	6.40	35.19

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX

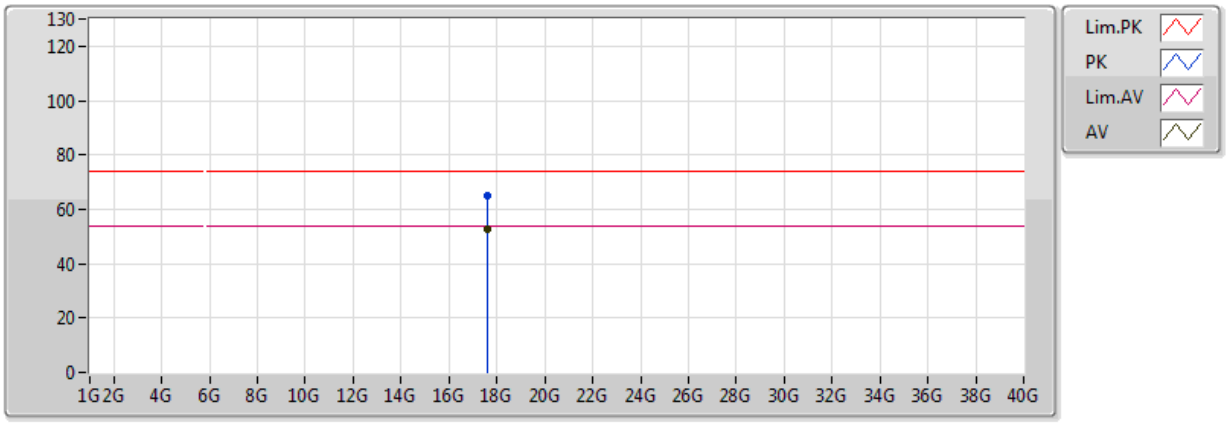


EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.6226G	52.57	54.00	-1.43	22.98	3	Vertical	319	2.01	-	29.59	44.23	10.65	31.91
PK	17.5938G	65.64	74.00	-8.36	22.77	3	Vertical	319	2.01	-	42.88	44.04	10.64	31.91

802.11ac VHT80_Nss1,(MCS0)_2TX

5775MHz_TX



EUT = Y
ANT = Y

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	17.6178G	52.47	54.00	-1.53	22.94	3	Horizontal	3	1.98	-	29.53	44.20	10.65	31.91
PK	17.577G	64.95	74.00	-9.05	22.64	3	Horizontal	3	1.98	-	42.31	43.92	10.63	31.91

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
5.725-5.85GHz	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	5.745G	5.745035378G	6.158	20	1	0 min

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5745MHz_-40°C	Pass	5.745G	5.74501663G	2.895	20	1	0 min
5745MHz_-40°C	Pass	5.745G	5.74501664G	2.897	20	1	2 min
5745MHz_-40°C	Pass	5.745G	5.74501663G	2.895	20	1	5 min
5745MHz_-40°C	Pass	5.745G	5.74501663G	2.895	20	1	10 min
5745MHz_-30°C	Pass	5.745G	5.74501525G	2.654	20	1	0 min
5745MHz_-30°C	Pass	5.745G	5.74501518G	2.642	20	1	2 min
5745MHz_-30°C	Pass	5.745G	5.74501517G	2.641	20	1	5 min
5745MHz_-30°C	Pass	5.745G	5.74501515G	2.637	20	1	10 min
5745MHz_-20°C	Pass	5.745G	5.74501395G	2.428	20	1	0 min
5745MHz_-20°C	Pass	5.745G	5.74501393G	2.425	20	1	2 min
5745MHz_-20°C	Pass	5.745G	5.74501389G	2.417	20	1	5 min
5745MHz_-20°C	Pass	5.745G	5.74501383G	2.408	20	1	10 min
5745MHz_-10°C	Pass	5.745G	5.74501200G	2.089	20	1	0 min
5745MHz_-10°C	Pass	5.745G	5.74501199G	2.087	20	1	2 min
5745MHz_-10°C	Pass	5.745G	5.74501197G	2.083	20	1	5 min
5745MHz_-10°C	Pass	5.745G	5.74501190G	2.072	20	1	10 min
5745MHz_0°C	Pass	5.745G	5.74500497G	0.865	20	1	0 min
5745MHz_0°C	Pass	5.745G	5.74500487G	0.848	20	1	2 min
5745MHz_0°C	Pass	5.745G	5.74500481G	0.838	20	1	5 min
5745MHz_0°C	Pass	5.745G	5.74500476G	0.828	20	1	10 min
5745MHz_10°C	Pass	5.745G	5.74501201G	2.091	20	1	0 min
5745MHz_10°C	Pass	5.745G	5.74501207G	2.101	20	1	2 min
5745MHz_10°C	Pass	5.745G	5.74501209G	2.104	20	1	5 min
5745MHz_10°C	Pass	5.745G	5.74501213G	2.111	20	1	10 min
5745MHz_20°C	Pass	5.745G	5.74503538G	6.158	20	1	0 min
5745MHz_20°C	Pass	5.745G	5.74503537G	6.157	20	1	2 min
5745MHz_20°C	Pass	5.745G	5.74503537G	6.157	20	1	5 min
5745MHz_20°C	Pass	5.745G	5.74503537G	6.157	20	1	10 min
5745MHz_30°C	Pass	5.745G	5.74503361G	5.85	20	1	0 min
5745MHz_30°C	Pass	5.745G	5.74503357G	5.843	20	1	2 min
5745MHz_30°C	Pass	5.745G	5.74503354G	5.838	20	1	5 min
5745MHz_30°C	Pass	5.745G	5.74503352G	5.834	20	1	10 min
5745MHz_40°C	Pass	5.745G	5.74501786G	3.108	20	1	0 min
5745MHz_40°C	Pass	5.745G	5.74501778G	3.095	20	1	2 min
5745MHz_40°C	Pass	5.745G	5.74501769G	3.08	20	1	5 min
5745MHz_40°C	Pass	5.745G	5.74501763G	3.068	20	1	10 min
5745MHz_50°C	Pass	5.745G	5.74500783G	1.363	20	1	0 min
5745MHz_50°C	Pass	5.745G	5.74500781G	1.359	20	1	2 min
5745MHz_50°C	Pass	5.745G	5.74500776G	1.351	20	1	5 min
5745MHz_50°C	Pass	5.745G	5.74500773G	1.345	20	1	10 min
5745MHz_60°C	Pass	5.745G	5.74500546G	0.951	20	1	0 min
5745MHz_60°C	Pass	5.745G	5.74500545G	0.949	20	1	2 min
5745MHz_60°C	Pass	5.745G	5.74500546G	0.95	20	1	5 min

Frequency Stability Result

Appendix F

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port	Remark
5745MHz_60°C	Pass	5.745G	5.74500545G	0.949	20	1	10 min
5745MHz_70°C	Pass	5.745G	5.74501803G	3.139	20	1	0 min
5745MHz_70°C	Pass	5.745G	5.74501807G	3.145	20	1	2 min
5745MHz_70°C	Pass	5.745G	5.74501811G	3.152	20	1	5 min
5745MHz_70°C	Pass	5.745G	5.74501814G	3.157	20	1	10 min
5745MHz_138V	Pass	5.745G	5.74503530G	6.145	20	1	0 min
5745MHz_138V	Pass	5.745G	5.74503530G	6.144	20	1	2 min
5745MHz_138V	Pass	5.745G	5.74503529G	6.142	20	1	5 min
5745MHz_138V	Pass	5.745G	5.74503531G	6.146	20	1	10 min
5745MHz_120V	Pass	5.745G	5.74503531G	6.146	20	1	0 min
5745MHz_120V	Pass	5.745G	5.74503531G	6.146	20	1	2 min
5745MHz_120V	Pass	5.745G	5.74503530G	6.145	20	1	5 min
5745MHz_120V	Pass	5.745G	5.74503529G	6.143	20	1	10 min
5745MHz_102V	Pass	5.745G	5.74503531G	6.146	20	1	0 min
5745MHz_102V	Pass	5.745G	5.74503529G	6.143	20	1	2 min
5745MHz_102V	Pass	5.745G	5.74503530G	6.144	20	1	5 min
5745MHz_102V	Pass	5.745G	5.74503529G	6.142	20	1	10 min