FCC Test Report

FCC ID	:	**SWX-UDMB**
Equipment	:	**UniFi Dream Machine Beacon**
Brand Name	:	**UBIQUITI**
Model Name	:	**UDM-B**
Applicant	:	**Ubiquiti Networks, Inc. 685 Third Avenue, 27th Floor New York, New York 10017 USA**
Manufacturer	:	**Ubiquiti Networks, Inc. 685 Third Avenue, 27th Floor New York, New York 10017 USA**
Standard	:	**47 CFR FCC Part 15.407**

The product was received on Mar. 19, 2019, and testing was started from Mar. 20, 2019 and completed on Mar. 28, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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

Allen Lin

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS

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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR870420-10AN	01	Initial issue of report	Apr. 17, 2019

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Conducted Output Power	PASS	-
3.4	15.407(a)	Peak Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
None

Reviewed by: Jackson Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
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	4TX
5.725-5.85GHz	802.11a	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	-	-	internal antenna	I-PEX
2	-	-	internal antenna	I-PEX
3	-	-	internal antenna	I-PEX
4	-	-	internal antenna	I-PEX
5	-	-	internal antenna	I-PEX

Ant.	2.4G		5G		BT	
	Port	Gain (dBi)	Port	Gain (dBi)	Port	Gain (dBi)
1	1	4.5	4	5	-	-
2	2	4.5	3	5	-	-
3	-	-	2	5	-	-
4	-	-	1	5	-	-
5	-	-	-	-	1	1

Note 1: The EUT has five antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

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

For BT function:

For Bluetooth mode (1TX/1RX)

Ant. 5 (port 1) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition					
EUT Power Type	From AC mains				
EUT Function	☐	Outdoor	☒	Indoor	
	☐	Fixed P2P	☐	Client	
Beamforming Function	☐	With beamforming	☒	Without beamforming	
TPC Function	☒	With TPC Function	☐	Without TPC Function	

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	0.796	0.99	1.398m	1k
802.11ac VHT20	0.784	1.06	1.19m	1k
802.11ac VHT40	0.638	1.95	595.625u	3k
802.11ac VHT80	0.481	3.18	296.875u	10k

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

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- KDB 789033 D02 v02r01
- 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
AC Conduction	CO04-HY	Lego	22.8~24.1°C / 64.1~67.6%	22/Mar/2019~ 28/Mar/2019
RF Conducted	TH01-HY	Barry	20.8~22.9°C / 51.8~61.9%	20/Mar/2019~ 26/Mar/2019
Radiated	03CH03-HY	Justin	19.2~23.4°C / 51.2~56.7%	21/Mar/2019~ 28/Mar/2019

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software	DoS

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	AC mains mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density
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	AC mains 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
Test Condition	Radiated measurement
Operating Mode	Normal link
1	WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: Appendix G for Radiated Emission Co-location	
Operating Mode	CTX
2	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA870420-10 for Co-location RF Exposure Evaluation.	

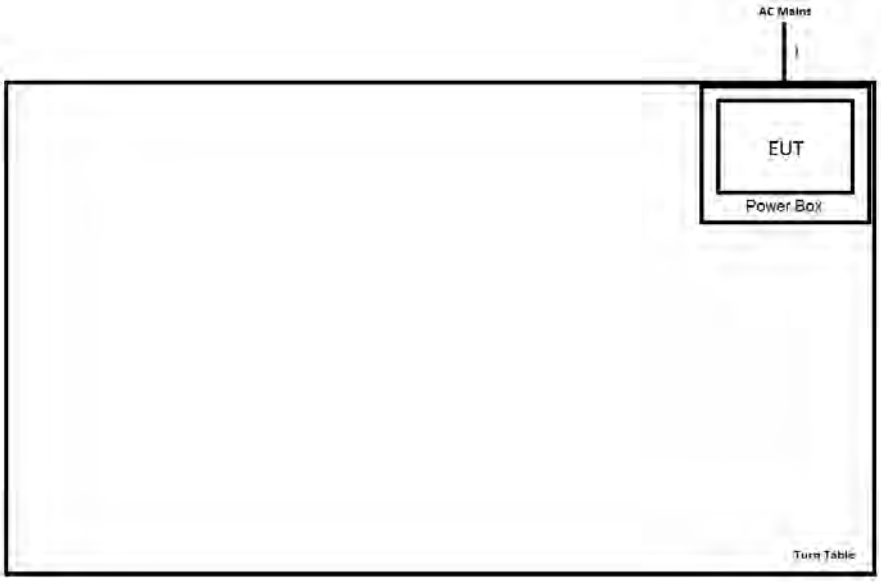
2.4 Support Equipment

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	Fixture	-	-	-

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

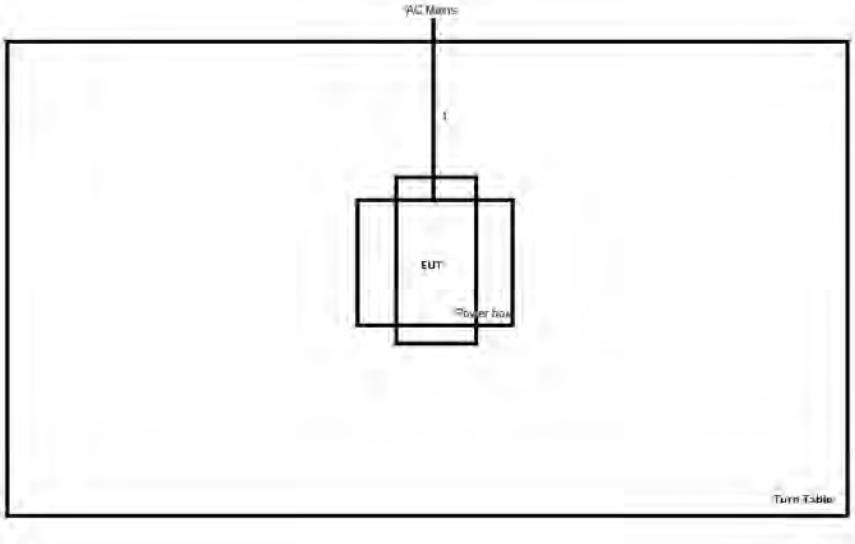
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length
1	AC Power line	No	1.5 m

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length
1	AC Power line	No	1.8m

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

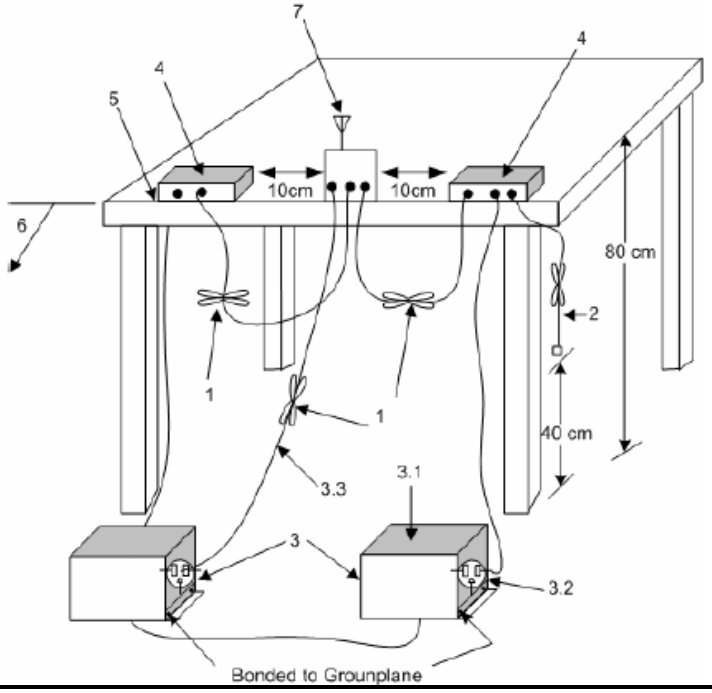
Refer a test equipment and calibration data table in this test report.

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, N/A
☐ For the 5.47-5.725 GHz band, N/A
☒ For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

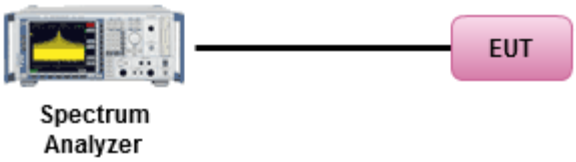
3.2.2 Measuring Instruments

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 6.7 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

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.	

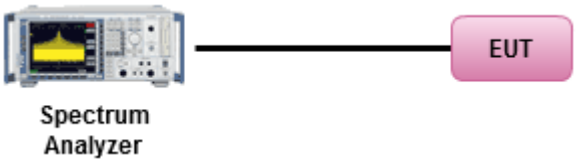
3.4.2 Measuring Instruments

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
 Spectrum Analyzer

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.

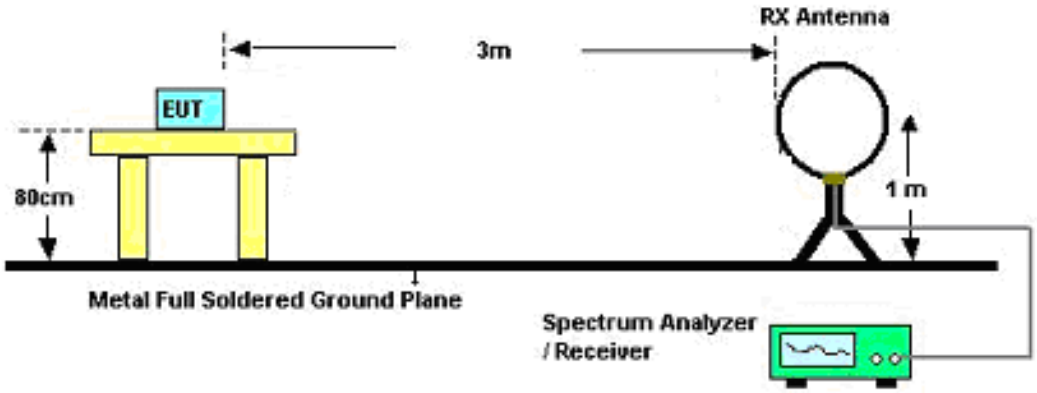
3.5.3 Test Procedures

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.		

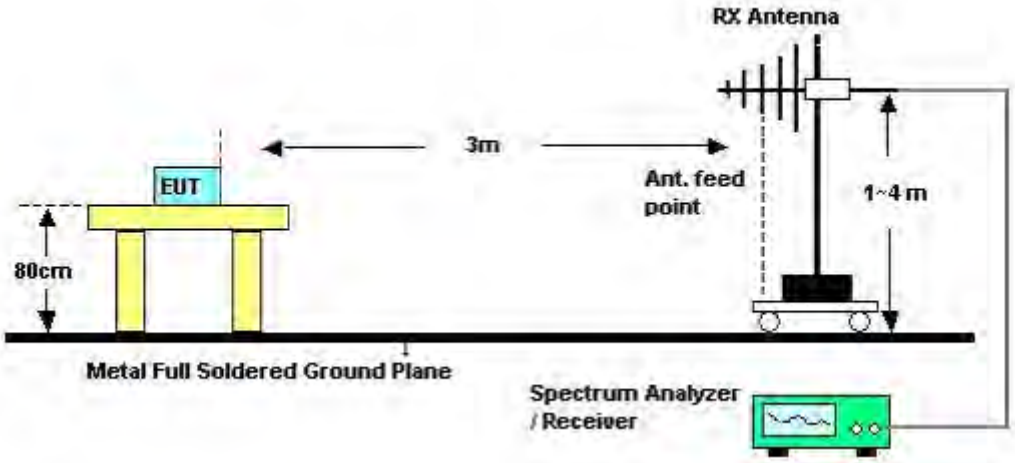
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

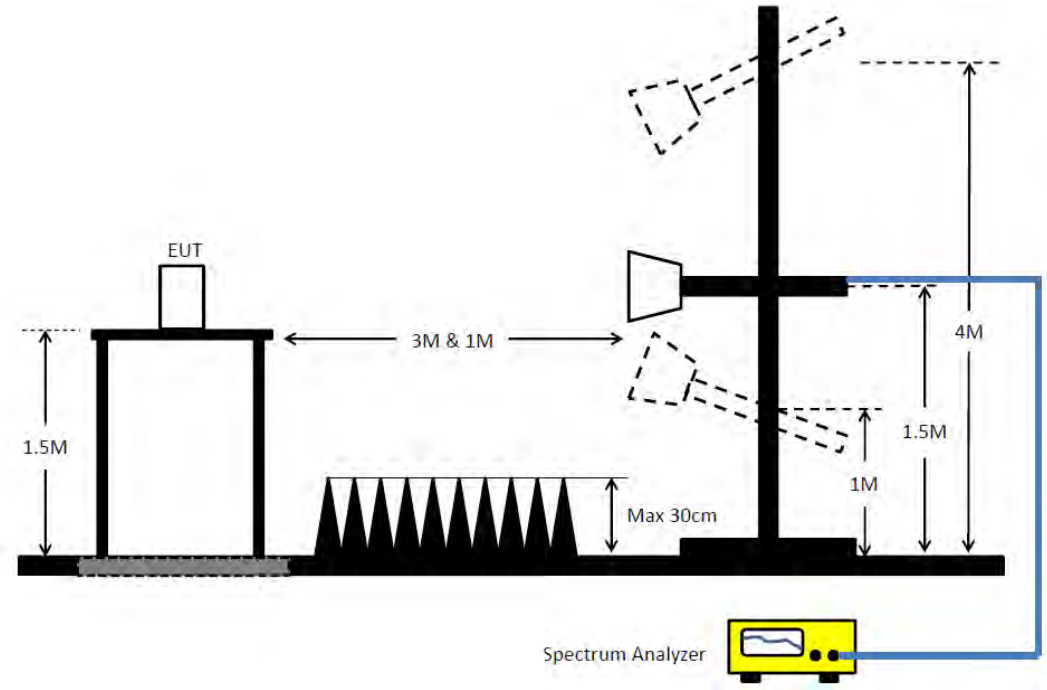
9kHz ~30MHz



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 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	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz ~ 63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz ~ 40GHz	13/Mar/2019	12/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz ~ 40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~ 18G	11/Jan/2019	10/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~ 18G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable - 05	30MHz ~ 1G	11/Jan/2019	10/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable - 05	1G ~ 18G	11/Jan/2019	10/Jan/2020

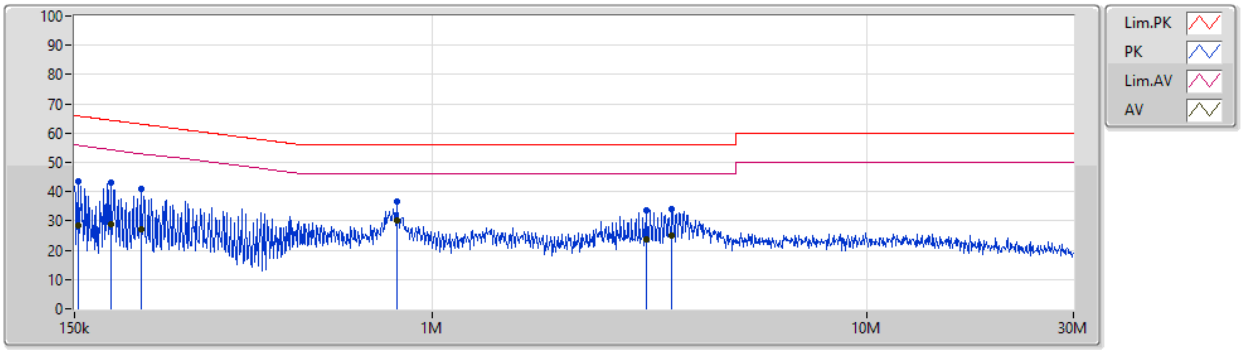
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz 3m	30/Oct/2018	29/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	30/Oct/2018	29/Oct/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
Bilog Antenna with 5dB Pad	ETS	3142B & MTJ6102-05	00022055	26 MHz - 3 GHz	19/Nov/2018	18/Nov/2019
Microwave System Preamplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	05/Sep/2018	04/Sep/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	29/Jan/2018	28/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX 106	MY34918/4	1GHz ~ 40GHz	21/Mar/2019	20/Mar/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	09/Mar/2019	08/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019

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

AC Conduction

22/03/2019

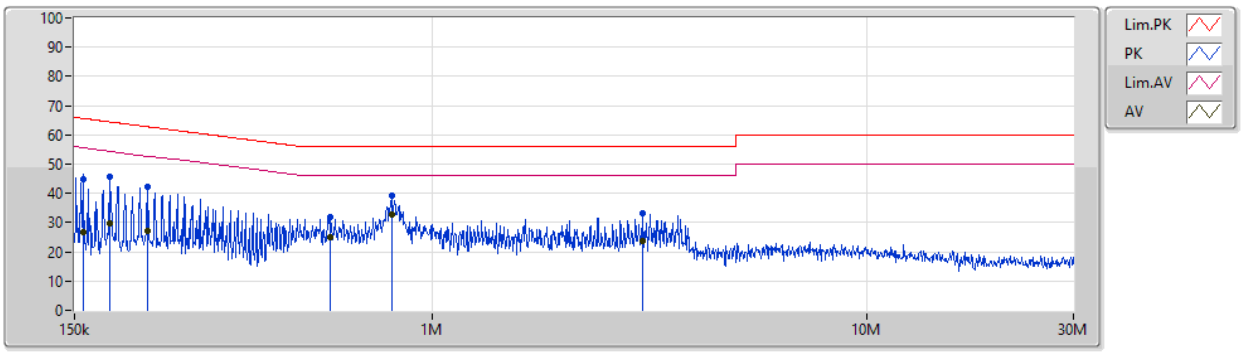


Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	153.024k	43.61	65.83	-22.22	19.48	Neutral	-	24.13	9.60	0.01	9.87
AV	153.024k	28.33	55.83	-27.50	19.48	Neutral	-	8.85	9.60	0.01	9.87
QP	181.681k	43.25	64.41	-21.16	19.47	Neutral	-	23.78	9.59	0.01	9.87
AV	181.681k	28.93	54.41	-25.48	19.47	Neutral	-	9.46	9.59	0.01	9.87
QP	213.137k	40.93	63.07	-22.14	19.47	Neutral	-	21.46	9.59	0.01	9.87
AV	213.137k	27.06	53.07	-26.01	19.47	Neutral	-	7.59	9.59	0.01	9.87
QP	828.172k	36.83	56.00	-19.17	19.49	Neutral	-	17.34	9.59	0.02	9.88
AV	828.172k	30.36	46.00	-15.64	19.49	Neutral	"Worst"	10.87	9.59	0.02	9.88
QP	3.117M	33.51	56.00	-22.49	19.54	Neutral	-	13.97	9.61	0.04	9.89
AV	3.117M	23.81	46.00	-22.19	19.54	Neutral	-	4.27	9.61	0.04	9.89
QP	3.57M	33.91	56.00	-22.09	19.54	Neutral	-	14.37	9.61	0.04	9.89
AV	3.57M	25.09	46.00	-20.91	19.54	Neutral	-	5.55	9.61	0.04	9.89

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

AC Conduction

22/03/2019



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	156.734k	44.86	65.64	-20.78	19.48	Line	-	25.38	9.60	0.01	9.87
AV	156.734k	26.87	55.64	-28.77	19.48	Line	-	7.39	9.60	0.01	9.87
QP	180.957k	45.52	64.43	-18.91	19.48	Line	-	26.04	9.60	0.01	9.87
AV	180.957k	29.65	54.43	-24.78	19.48	Line	-	10.17	9.60	0.01	9.87
QP	220.933k	42.12	62.79	-20.67	19.48	Line	-	22.64	9.60	0.01	9.87
AV	220.933k	27.01	52.79	-25.78	19.48	Line	-	7.53	9.60	0.01	9.87
QP	580.524k	31.82	56.00	-24.18	19.48	Line	-	12.34	9.59	0.01	9.88
AV	580.524k	25.17	46.00	-20.83	19.48	Line	-	5.69	9.59	0.01	9.88
QP	805.349k	39.11	56.00	-16.89	19.50	Line	-	19.61	9.60	0.02	9.88
AV	805.349k	32.62	46.00	-13.38	19.50	Line	"Worst"	13.12	9.60	0.02	9.88
QP	3.043M	33.27	56.00	-22.73	19.56	Line	-	13.71	9.63	0.04	9.89
AV	3.043M	23.64	46.00	-22.36	19.56	Line	-	4.08	9.63	0.04	9.89

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.95M	16.567M	16M6D1D	19.6M	16.342M
802.11ac VHT20_Nss1,(MCS0)_4TX	34.05M	17.741M	17M7D1D	19.95M	17.566M
802.11ac VHT40_Nss1,(MCS0)_4TX	71.65M	36.232M	36M2D1D	40.05M	35.932M
802.11ac VHT80_Nss1,(MCS0)_4TX	81.1M	75.162M	75M2D1D	79.7M	74.863M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	15.275M	22.614M	22M6D1D	13.825M	16.517M
802.11ac VHT20_Nss1,(MCS0)_4TX	15.925M	19.74M	19M7D1D	14.925M	17.891M
802.11ac VHT40_Nss1,(MCS0)_4TX	35.1M	39.38M	39M4D1D	33.2M	36.732M
802.11ac VHT80_Nss1,(MCS0)_4TX	75M	75.462M	75M5D1D	61.3M	75.162M

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

Result

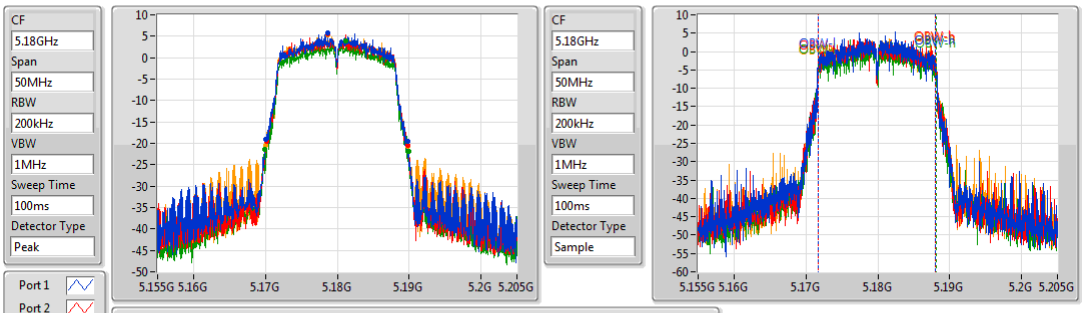
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.75M	16.317M	19.6M	16.342M	20M	16.367M	19.725M	16.392M
5200MHz	Pass	Inf	29.95M	16.492M	28.25M	16.492M	27.025M	16.417M	28.625M	16.442M
5240MHz	Pass	Inf	26.725M	16.467M	28.525M	16.567M	26.775M	16.392M	27M	16.442M
5745MHz	Pass	500k	15M	17.191M	13.825M	18.266M	15.05M	17.316M	15.1M	17.316M
5785MHz	Pass	500k	15.05M	16.692M	15.075M	19.215M	14.95M	17.091M	14.4M	22.614M
5825MHz	Pass	500k	15M	16.517M	15.075M	16.792M	15.05M	16.542M	15.275M	16.742M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.525M	17.566M	19.95M	17.566M	19.95M	17.591M	20.25M	17.591M
5200MHz	Pass	Inf	33.75M	17.641M	34.05M	17.741M	31.225M	17.641M	28.975M	17.641M
5240MHz	Pass	Inf	30.3M	17.641M	33.325M	17.691M	27.575M	17.591M	27.725M	17.641M
5745MHz	Pass	500k	14.975M	17.891M	15.575M	18.216M	14.925M	18.091M	15.025M	17.891M
5785MHz	Pass	500k	15.1M	17.941M	15.925M	19.74M	15.075M	18.266M	15.1M	18.341M
5825MHz	Pass	500k	15.025M	17.916M	15.925M	19.315M	15.075M	17.966M	15.9M	18.266M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.4M	35.932M	40.05M	35.982M	40.15M	35.932M	40.25M	35.932M
5230MHz	Pass	Inf	40.1M	36.032M	40.95M	36.032M	39.9M	35.932M	68.35M	36.032M
5755MHz	Pass	500k	35.1M	37.831M	35.1M	37.781M	35.1M	37.381M	35.05M	36.932M
5795MHz	Pass	500k	35M	36.732M	34.4M	39.38M	35.1M	36.882M	33.2M	37.981M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.1M	75.062M	79.7M	75.162M	80.1M	75.162M	79.9M	74.863M
5775MHz	Pass	500k	68.9M	75.462M	66.2M	75.162M	61.3M	75.262M	75M	75.462M

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

802.11a_Nss1,(6Mbps)_4TX **EBW**

5180MHz

25/03/2019

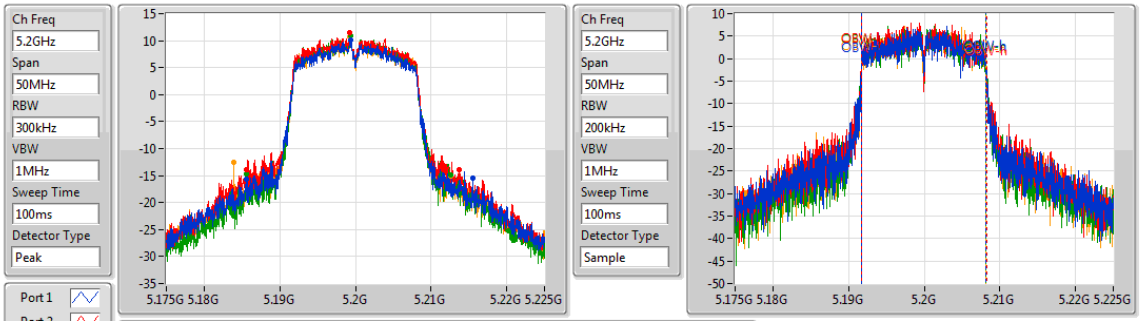


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.75M	5.17005G	5.1898G	16.317M	5.171754G	5.188071G	Inf	1
19.6M	5.17015G	5.18975G	16.342M	5.171729G	5.188071G	Inf	2
20M	5.16995G	5.18995G	16.367M	5.171729G	5.188096G	Inf	3
19.725M	5.1701G	5.189825G	16.392M	5.171704G	5.188096G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5200MHz

14/03/2018

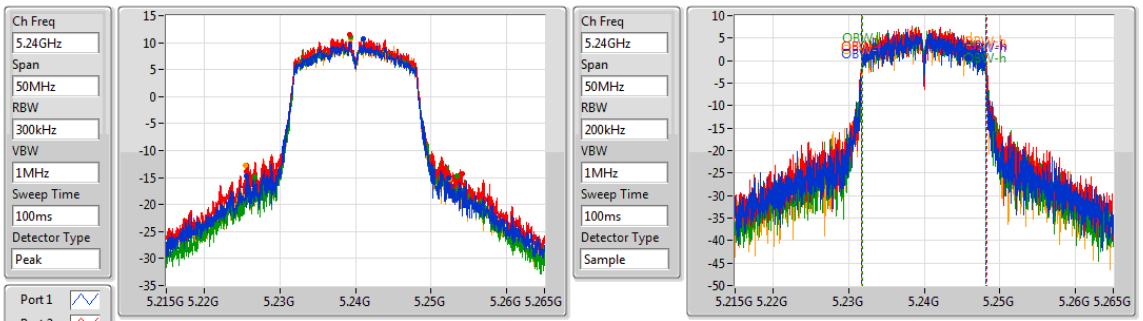


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.95M	5.185525G	5.215475G	16.492M	5.191704G	5.208196G	Inf	1
28.25M	5.185525G	5.213775G	16.492M	5.191729G	5.208221G	Inf	2
27.025M	5.185625G	5.21265G	16.417M	5.191779G	5.208196G	Inf	3
28.625M	5.183975G	5.2126G	16.442M	5.191754G	5.208196G	Inf	4

802.11a_Nss1,(6Mbps)_4TX **EBW**

5240MHz

14/03/2018



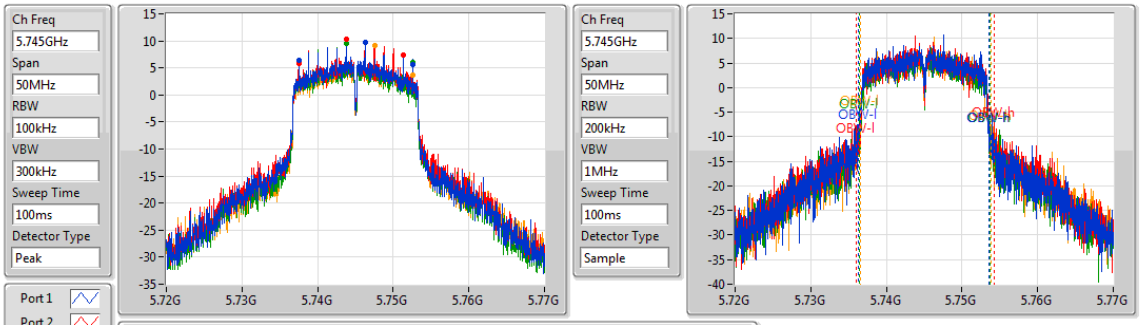
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.725M	5.2256G	5.252325G	16.467M	5.231729G	5.248196G	Inf	1
28.525M	5.22555G	5.254075G	16.567M	5.231679G	5.248246G	Inf	2
26.775M	5.2267G	5.253475G	16.392M	5.231804G	5.248196G	Inf	3
27M	5.22545G	5.25245G	16.442M	5.231729G	5.248171G	Inf	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

14/03/2018



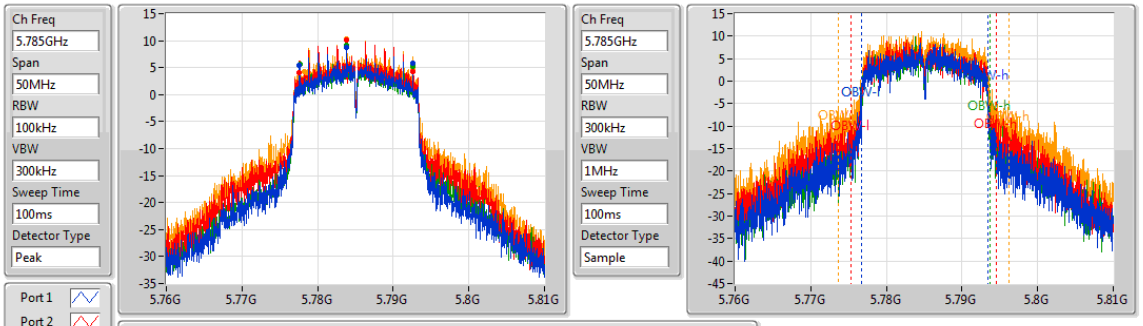
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	5.7376G	5.7526G	17.191M	5.736354G	5.753546G	500k	1
13.825M	5.7375G	5.751325G	18.266M	5.735955G	5.75422G	500k	2
15.05M	5.737525G	5.752575G	17.316M	5.736454G	5.753771G	500k	3
15.1M	5.737525G	5.752625G	17.316M	5.736554G	5.753871G	500k	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

14/03/2018



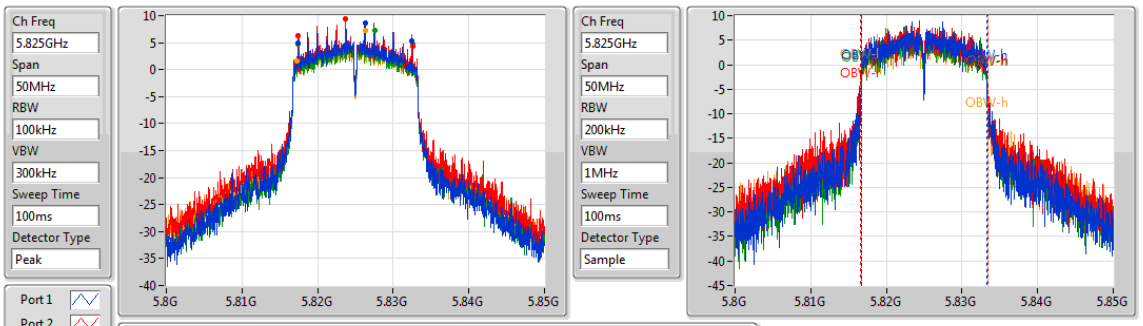
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	5.777575G	5.792625G	16.692M	5.776704G	5.793396G	500k	1
15.075M	5.777525G	5.7926G	19.215M	5.77538G	5.794595G	500k	2
14.95M	5.777625G	5.792575G	17.091M	5.776679G	5.793771G	500k	3
14.4M	5.778225G	5.792625G	22.614M	5.773656G	5.796269G	500k	4

802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

20/03/2018



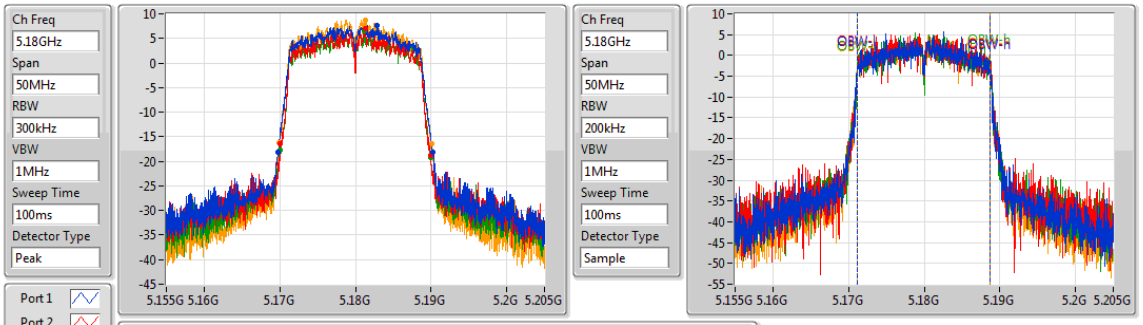
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15M	5.817475G	5.832475G	16.517M	5.816704G	5.833221G	500k	1
15.075M	5.817475G	5.83255G	16.792M	5.816579G	5.833371G	500k	2
15.05M	5.817475G	5.832525G	16.542M	5.816704G	5.833246G	500k	3
15.275M	5.81725G	5.832525G	16.742M	5.816629G	5.833371G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5180MHz

20/03/2018



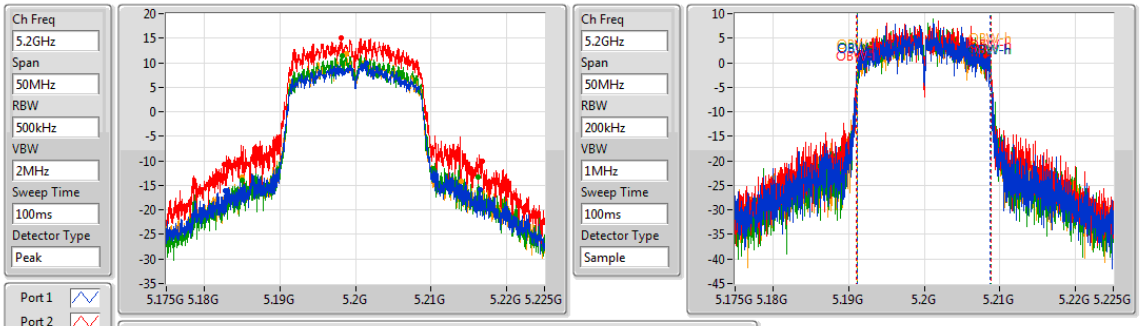
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.525M	5.169725G	5.19025G	17.566M	5.171179G	5.188746G	Inf	1
19.95M	5.170025G	5.189975G	17.566M	5.171179G	5.188746G	Inf	2
19.95M	5.169975G	5.189925G	17.591M	5.171179G	5.188771G	Inf	3
20.25M	5.169875G	5.190125G	17.591M	5.171179G	5.188771G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5200MHz

14/03/2018



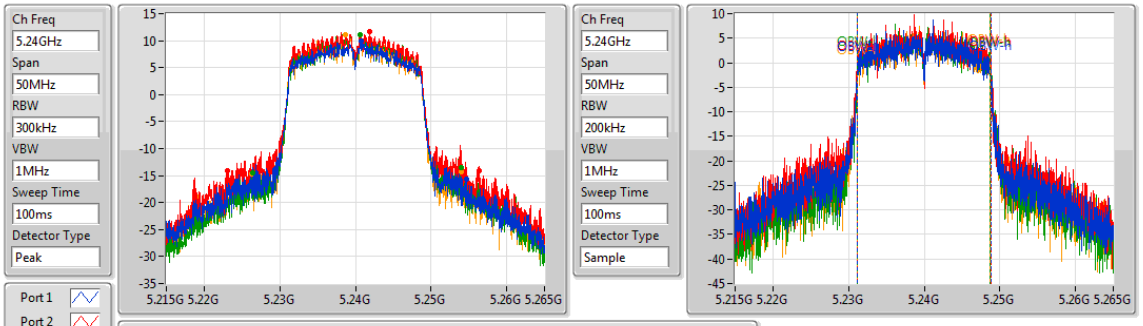
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.75M	5.182775G	5.216525G	17.641M	5.191129G	5.208771G	Inf	1
34.05M	5.182675G	5.216725G	17.741M	5.191079G	5.208821G	Inf	2
31.225M	5.184975G	5.2162G	17.641M	5.191179G	5.208821G	Inf	3
28.975M	5.18505G	5.214025G	17.641M	5.191154G	5.208796G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5240MHz

14/03/2018



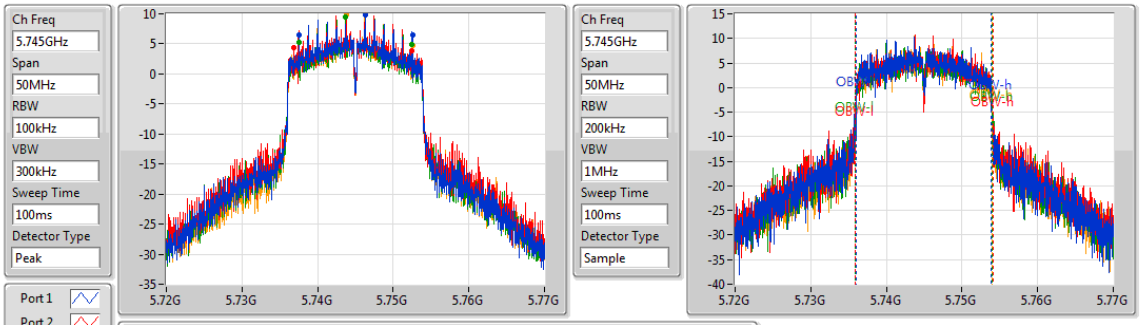
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.3M	5.22435G	5.25465G	17.641M	5.231154G	5.248796G	Inf	1
33.325M	5.22305G	5.256375G	17.691M	5.231104G	5.248796G	Inf	2
27.575M	5.226475G	5.25405G	17.591M	5.231179G	5.248771G	Inf	3
27.725M	5.226275G	5.254G	17.641M	5.231129G	5.248771G	Inf	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5745MHz

14/03/2018



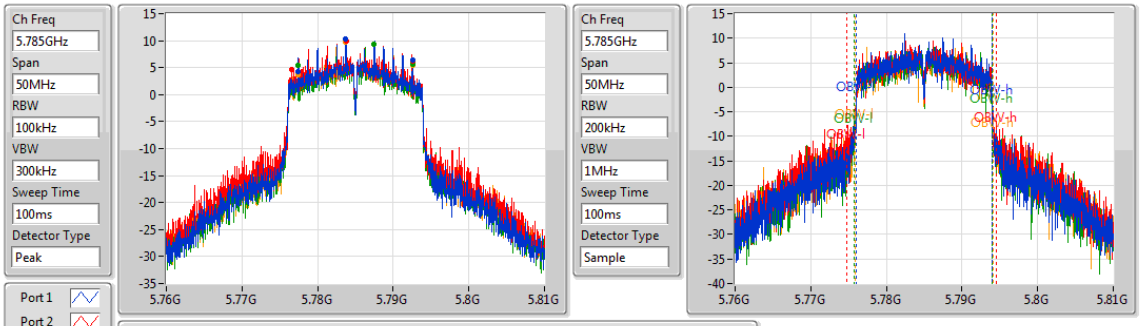
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.975M	5.73755G	5.752525G	17.891M	5.736004G	5.753896G	500k	1
15.575M	5.736875G	5.75245G	18.216M	5.73588G	5.754095G	500k	2
14.925M	5.73755G	5.752475G	18.091M	5.73588G	5.753971G	500k	3
15.025M	5.737525G	5.75255G	17.891M	5.736054G	5.753946G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5785MHz

14/03/2018



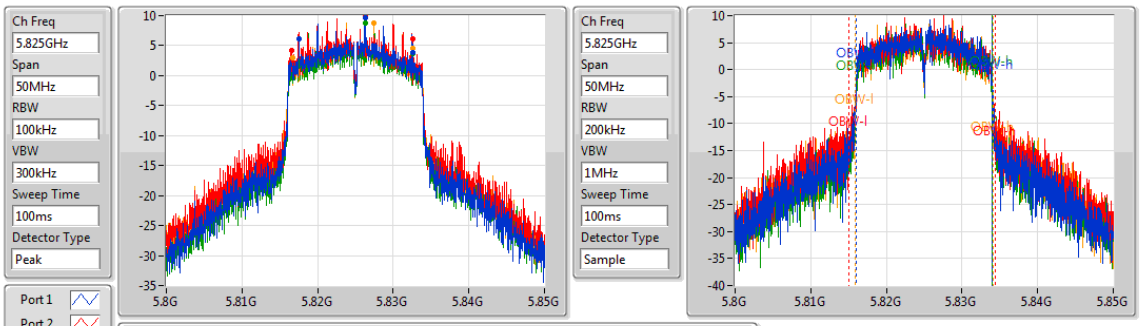
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	5.77745G	5.79255G	17.941M	5.776004G	5.793946G	500k	1
15.925M	5.776625G	5.79255G	19.74M	5.77478G	5.79452G	500k	2
15.075M	5.777475G	5.79255G	18.266M	5.77578G	5.794045G	500k	3
15.1M	5.77745G	5.79255G	18.341M	5.77583G	5.79417G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

5825MHz

14/03/2018



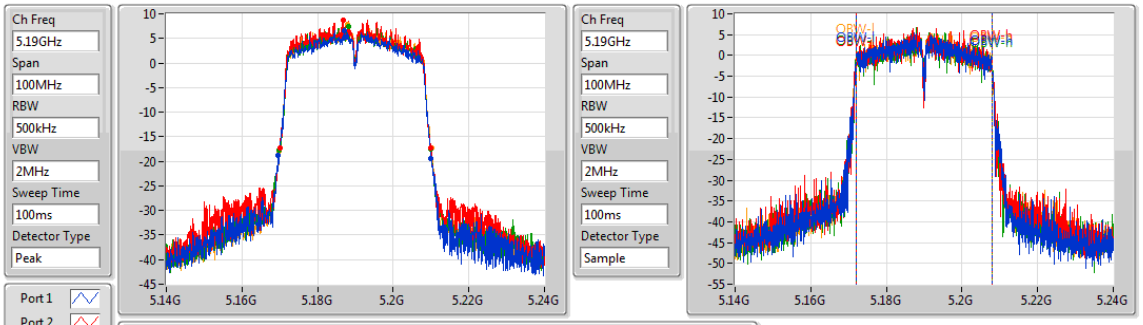
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.025M	5.81755G	5.832575G	17.916M	5.816004G	5.833921G	500k	1
15.925M	5.816625G	5.83255G	19.315M	5.81508G	5.834395G	500k	2
15.075M	5.8175G	5.832575G	17.966M	5.816029G	5.833996G	500k	3
15.9M	5.81665G	5.83255G	18.266M	5.815855G	5.83412G	500k	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5190MHz

20/03/2018



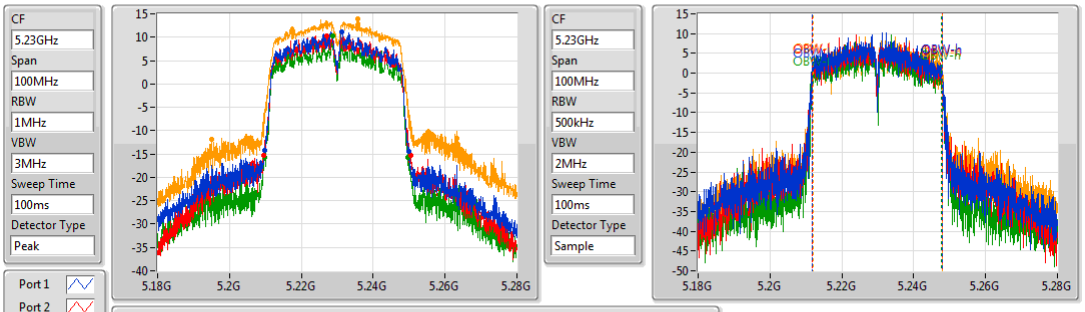
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.4M	5.16965G	5.21005G	35.932M	5.171959G	5.207891G	Inf	1
40.05M	5.16995G	5.21G	35.982M	5.171959G	5.207941G	Inf	2
40.15M	5.16985G	5.21G	35.932M	5.171959G	5.207891G	Inf	3
40.25M	5.16985G	5.2101G	35.932M	5.171959G	5.207891G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5230MHz

25/03/2019



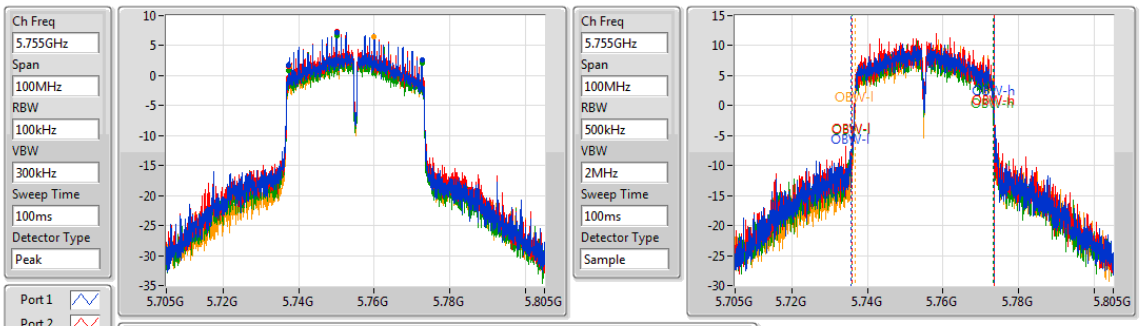
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.1M	5.2098G	5.2499G	36.032M	5.211809G	5.247841G	Inf	1
40.95M	5.2096G	5.25055G	36.032M	5.211859G	5.247891G	Inf	2
39.9M	5.2098G	5.2497G	35.932M	5.211809G	5.247741G	Inf	3
68.35M	5.195G	5.26335G	36.032M	5.211909G	5.247941G	Inf	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5755MHz

14/03/2018



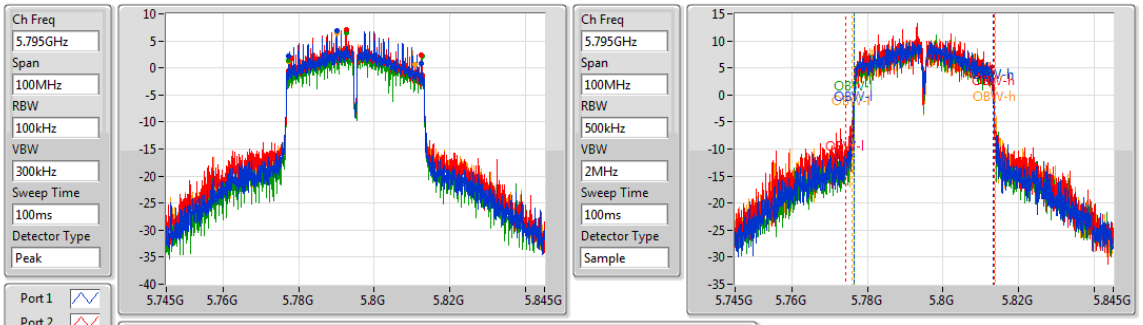
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.1M	5.73745G	5.77255G	37.831M	5.73566G	5.773491G	500k	1
35.1M	5.73745G	5.77255G	37.781M	5.73586G	5.773641G	500k	2
35.1M	5.73745G	5.77255G	37.381M	5.73596G	5.773341G	500k	3
35.05M	5.7375G	5.77255G	36.932M	5.736659G	5.773591G	500k	4

802.11ac VHT40_Nss1,(MCS0)_4TX

EBW

5795MHz

14/03/2018



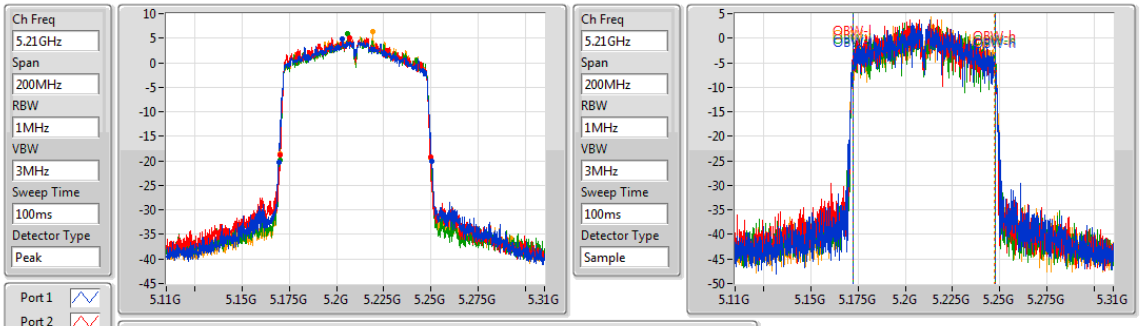
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	5.77745G	5.81245G	36.732M	5.776509G	5.813241G	500k	1
34.4M	5.7781G	5.8125G	39.38M	5.77416G	5.813541G	500k	2
35.1M	5.77745G	5.81255G	36.882M	5.776459G	5.813341G	500k	3
33.2M	5.77745G	5.81065G	37.981M	5.77586G	5.813841G	500k	4

802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5210MHz

20/03/2018



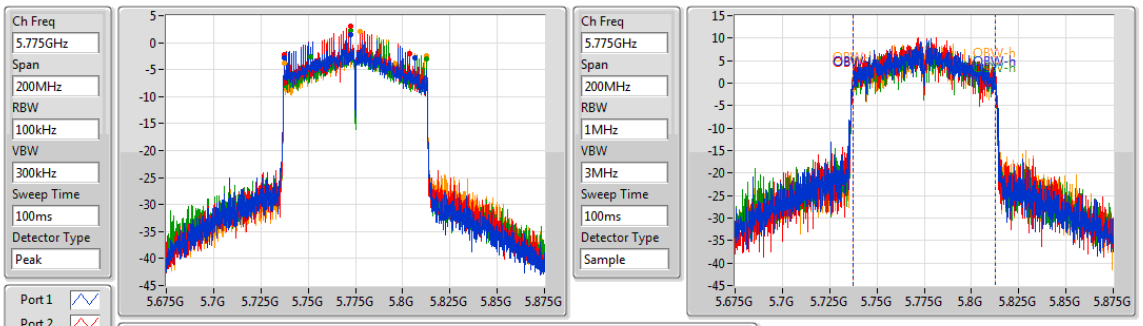
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.1M	5.1694G	5.2505G	75.062M	5.172319G	5.247381G	Inf	1
79.7M	5.1701G	5.2498G	75.162M	5.172219G	5.247381G	Inf	2
80.1M	5.1699G	5.25G	75.162M	5.172319G	5.247481G	Inf	3
79.9M	5.17G	5.2499G	74.863M	5.172419G	5.247281G	Inf	4

802.11ac VHT80_Nss1,(MCS0)_4TX

EBW

5775MHz

20/03/2018



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
68.9M	5.7374G	5.8063G	75.462M	5.737119G	5.812581G	500k	1
66.2M	5.7375G	5.8037G	75.162M	5.737319G	5.812481G	500k	2
61.3M	5.7512G	5.8125G	75.262M	5.737219G	5.812481G	500k	3
75M	5.7375G	5.8125G	75.462M	5.737319G	5.812781G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	24.07	0.25527	29.07	0.80724
802.11ac VHT20_Nss1,(MCS0)_4TX	24.31	0.26977	29.31	0.85310
802.11ac VHT40_Nss1,(MCS0)_4TX	24.24	0.26546	29.24	0.83946
802.11ac VHT80_Nss1,(MCS0)_4TX	17.52	0.05649	22.52	0.17865
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	25.67	0.36898	30.67	1.16681
802.11ac VHT20_Nss1,(MCS0)_4TX	25.82	0.38194	30.82	1.20781
802.11ac VHT40_Nss1,(MCS0)_4TX	25.85	0.38459	30.85	1.21619
802.11ac VHT80_Nss1,(MCS0)_4TX	23.14	0.20606	28.14	0.65163

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.00	16.84	16.91	14.21	15.59	22.04	30.00	27.04	36.00
5200MHz	Pass	5.00	18.47	17.05	17.65	18.15	23.88	30.00	28.88	36.00
5240MHz	Pass	5.00	18.52	17.98	17.71	17.95	24.07	30.00	29.07	36.00
5745MHz	Pass	5.00	18.90	18.73	19.46	20.68	25.53	30.00	30.53	36.00
5785MHz	Pass	5.00	19.54	19.31	19.84	19.88	25.67	30.00	30.67	36.00
5825MHz	Pass	5.00	18.54	18.24	19.14	19.13	24.80	30.00	29.80	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.00	16.46	15.36	15.78	15.74	21.87	30.00	26.87	36.00
5200MHz	Pass	5.00	18.98	17.81	17.94	18.35	24.31	30.00	29.31	36.00
5240MHz	Pass	5.00	18.42	17.64	17.65	17.75	23.90	30.00	28.90	36.00
5745MHz	Pass	5.00	19.57	19.18	19.93	19.91	25.68	30.00	30.68	36.00
5785MHz	Pass	5.00	19.64	19.24	19.98	19.81	25.70	30.00	30.70	36.00
5825MHz	Pass	5.00	19.65	19.12	20.42	19.92	25.82	30.00	30.82	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.00	15.01	13.92	14.01	14.22	20.33	30.00	25.33	36.00
5230MHz	Pass	5.00	18.69	18.37	16.71	18.79	24.24	30.00	29.24	36.00
5755MHz	Pass	5.00	19.77	19.29	20.04	19.93	25.79	30.00	30.79	36.00
5795MHz	Pass	5.00	19.97	19.36	19.85	20.09	25.85	30.00	30.85	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	5.00	12.45	11.18	11.29	10.89	17.52	30.00	22.52	36.00
5775MHz	Pass	5.00	17.11	16.65	17.57	17.09	23.14	30.00	28.14	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	11.91	22.93
802.11ac VHT20_Nss1,(MCS0)_4TX	11.78	22.80
802.11ac VHT40_Nss1,(MCS0)_4TX	9.22	20.24
802.11ac VHT80_Nss1,(MCS0)_4TX	1.08	12.10
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	12.54	23.56
802.11ac VHT20_Nss1,(MCS0)_4TX	12.54	23.56
802.11ac VHT40_Nss1,(MCS0)_4TX	9.63	20.65
802.11ac VHT80_Nss1,(MCS0)_4TX	5.36	16.38

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

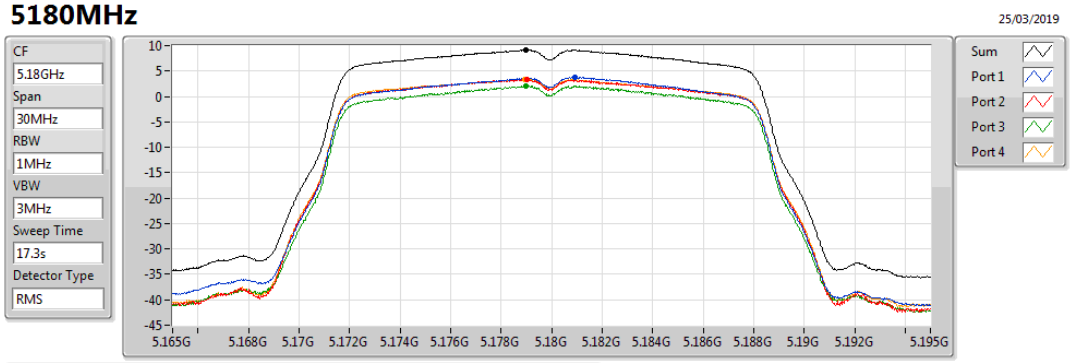
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.02	3.77	3.31	2.10	3.41	9.10	11.98	20.12	23.00
5200MHz	Pass	11.02	6.64	6.17	4.65	5.99	11.84	11.98	22.86	23.00
5240MHz	Pass	11.02	6.49	6.10	4.58	6.48	11.91	11.98	22.93	23.00
5745MHz	Pass	11.02	6.81	6.96	6.12	6.20	12.54	24.98	23.56	36.00
5785MHz	Pass	11.02	5.96	6.94	6.02	6.80	12.46	24.98	23.48	36.00
5825MHz	Pass	11.02	5.97	5.88	5.15	4.93	11.47	24.98	22.49	36.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	11.02	4.11	4.83	4.37	4.38	10.41	11.98	21.43	23.00
5200MHz	Pass	11.02	6.49	5.95	4.91	5.87	11.78	11.98	22.80	23.00
5240MHz	Pass	11.02	6.13	5.39	4.31	5.95	11.39	11.98	22.41	23.00
5745MHz	Pass	11.02	6.59	6.95	6.22	6.32	12.50	24.98	23.52	36.00
5785MHz	Pass	11.02	6.63	7.01	6.09	6.49	12.54	24.98	23.56	36.00
5825MHz	Pass	11.02	6.25	6.63	5.55	6.11	12.12	24.98	23.14	36.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	11.02	0.71	0.66	0.54	0.49	6.57	11.98	17.59	23.00
5230MHz	Pass	11.02	3.94	3.54	1.80	3.58	9.22	11.98	20.24	23.00
5755MHz	Pass	11.02	3.87	3.83	3.12	3.15	9.50	24.98	20.52	36.00
5795MHz	Pass	11.02	3.79	4.00	3.14	3.54	9.63	24.98	20.65	36.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	11.02	-4.78	-4.78	-4.94	-4.69	1.08	11.98	12.10	23.00
5775MHz	Pass	11.02	-0.50	0.03	-0.89	-0.87	5.36	24.98	16.38	36.00

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

802.11a_Nss1,(6Mbps)_4TX PSD

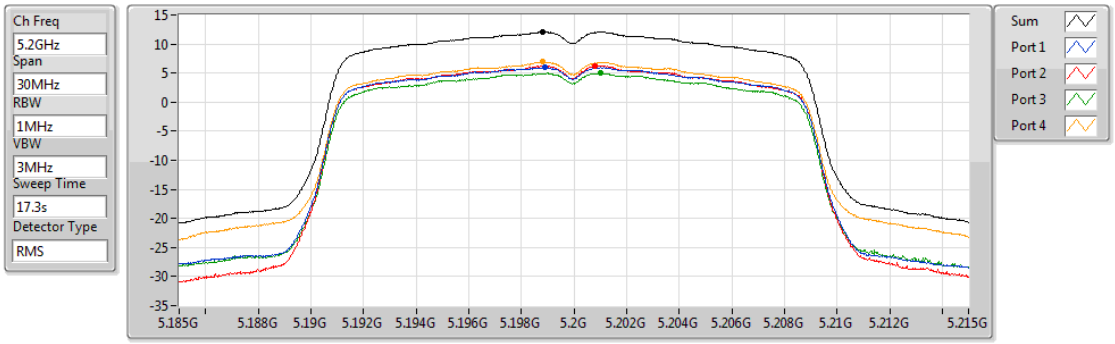
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.10	9.10	3.77	3.31	2.10	3.41

802.11a_Nss1,(6Mbps)_4TX PSD

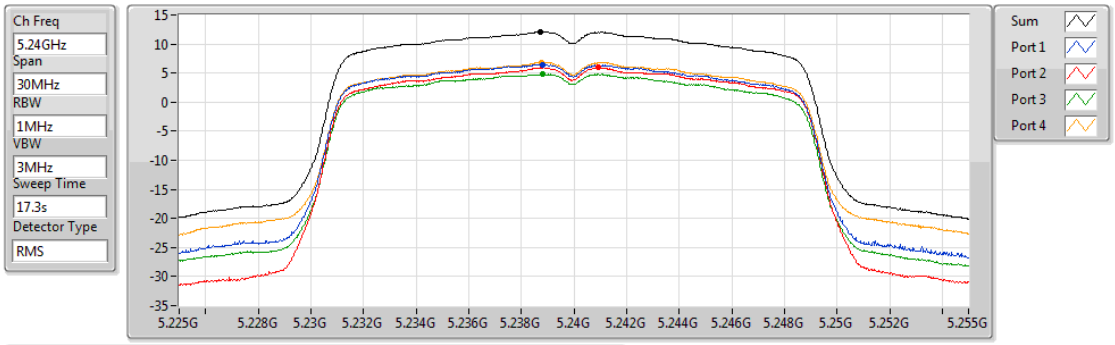
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.06	12.06	5.94	6.28	4.99	6.94

802.11a_Nss1,(6Mbps)_4TX PSD

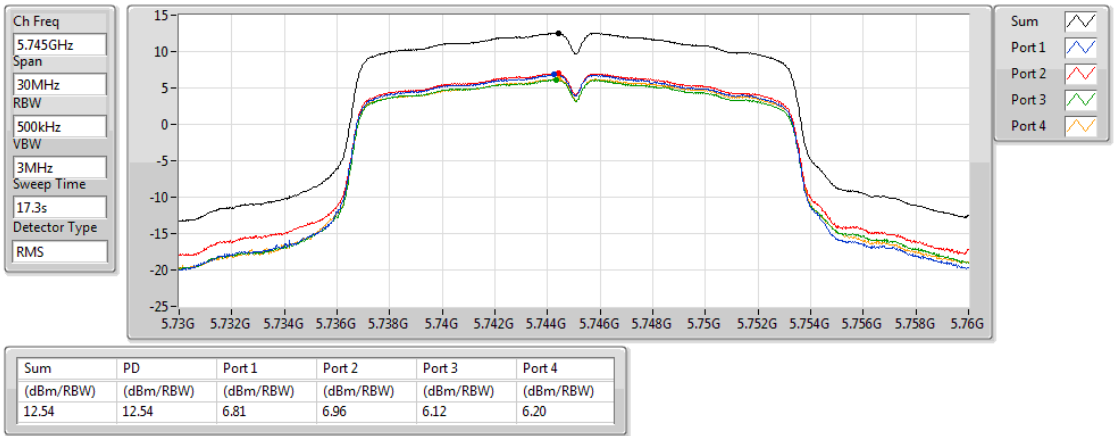
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.10	12.10	6.50	5.94	4.80	6.89

802.11a_Nss1,(6Mbps)_4TX PSD

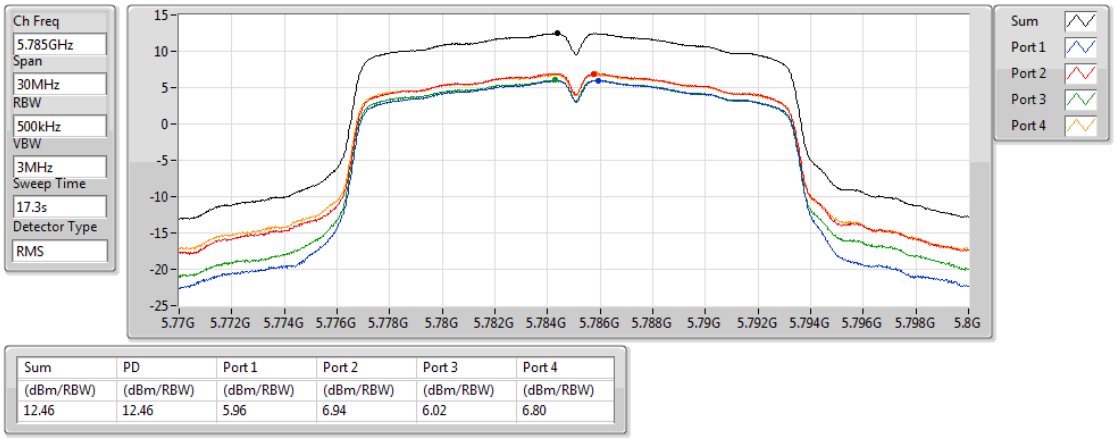
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.54	12.54	6.81	6.96	6.12	6.20

802.11a_Nss1,(6Mbps)_4TX PSD

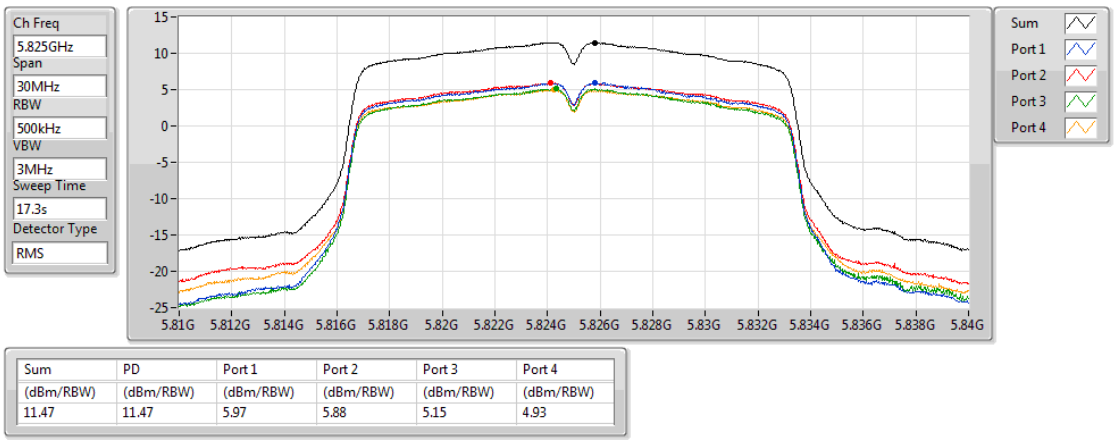
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.46	12.46	5.96	6.94	6.02	6.80

802.11a_Nss1,(6Mbps)_4TX PSD

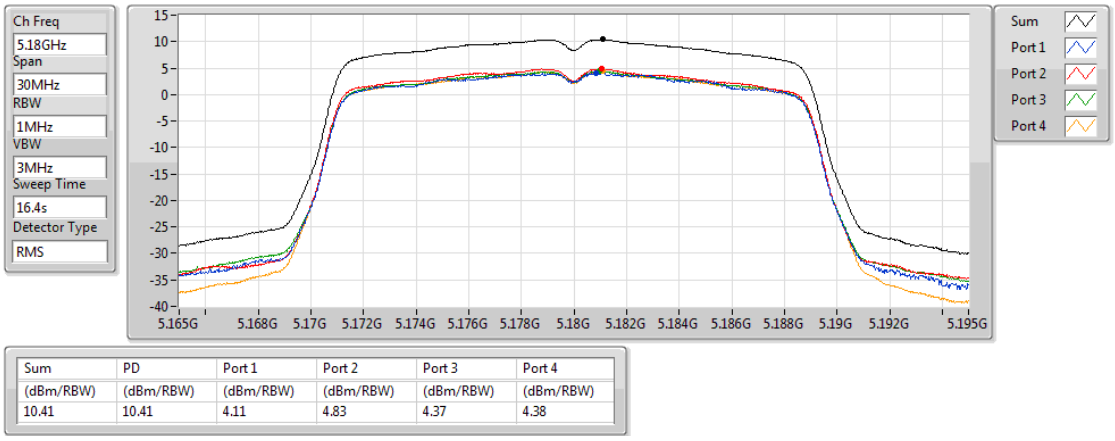
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.47	11.47	5.97	5.88	5.15	4.93

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

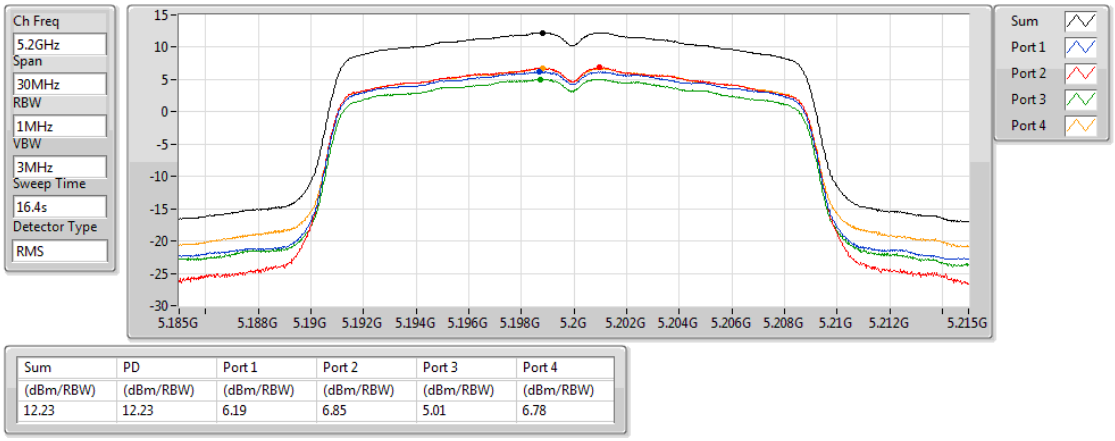
5180MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.41	10.41	4.11	4.83	4.37	4.38

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

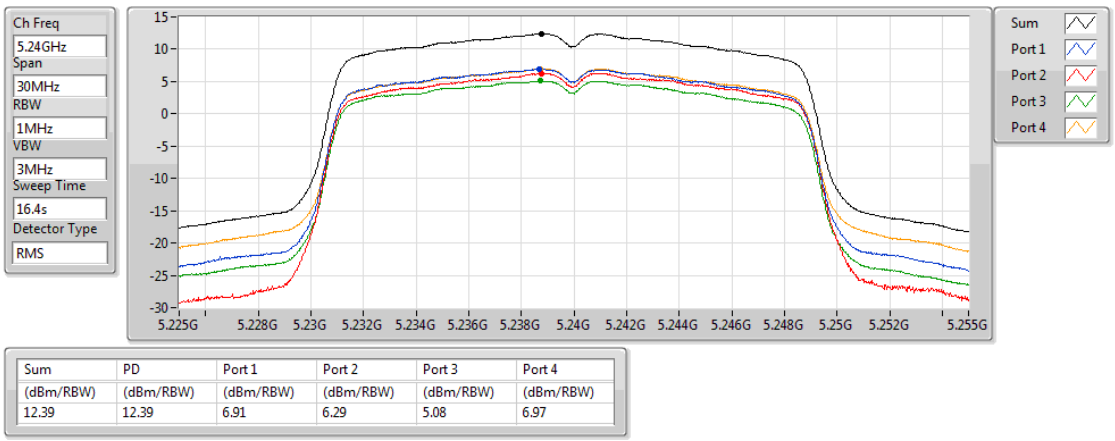
5200MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.23	12.23	6.19	6.85	5.01	6.78

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

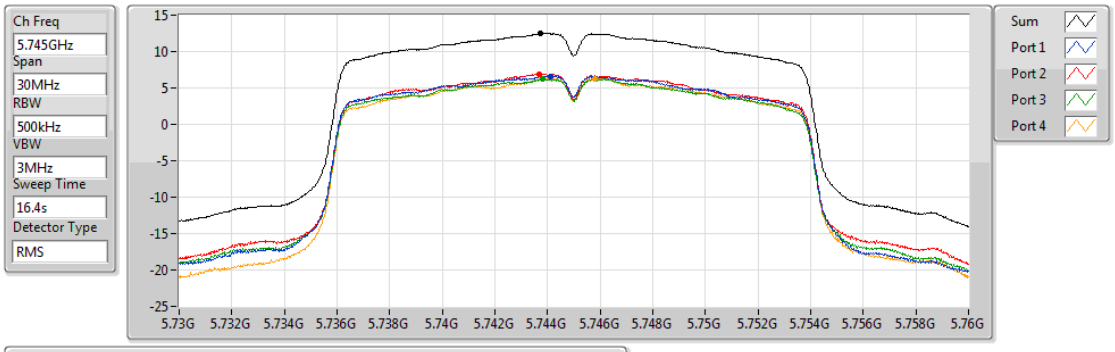
5240MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.39	12.39	6.91	6.29	5.08	6.97

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

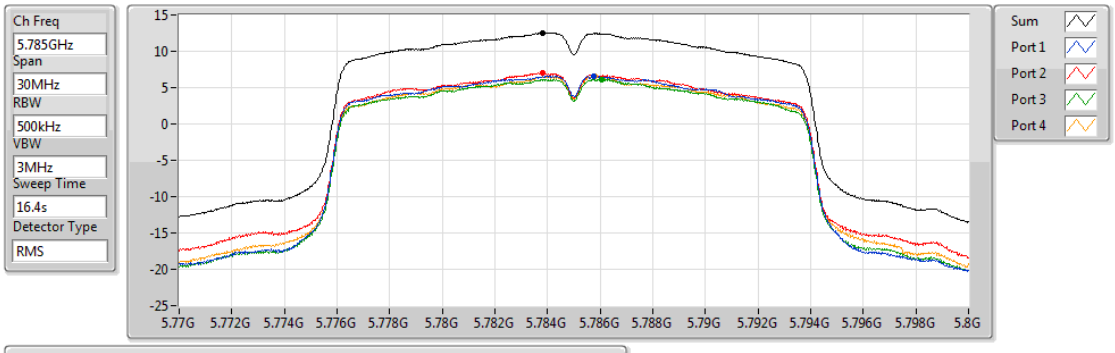
5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.50	12.50	6.59	6.95	6.22	6.32

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

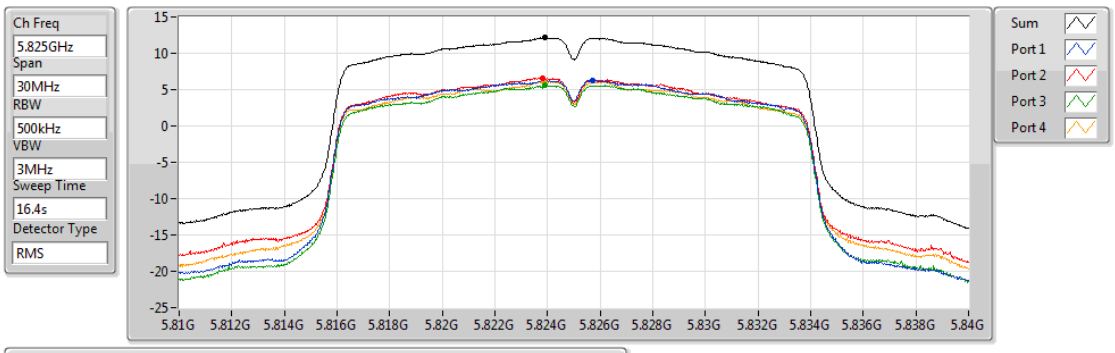
5785MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.54	12.54	6.63	7.01	6.09	6.49

802.11ac VHT20_Nss1,(MCS0)_4TX PSD

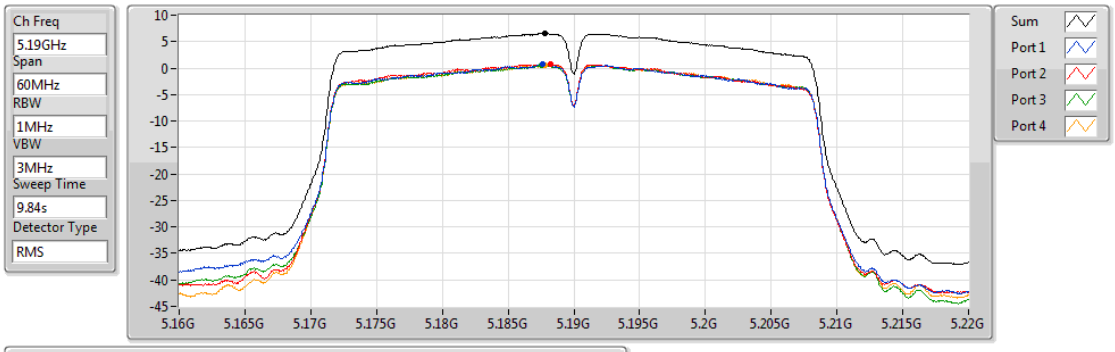
5825MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.12	12.12	6.25	6.63	5.55	6.11

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

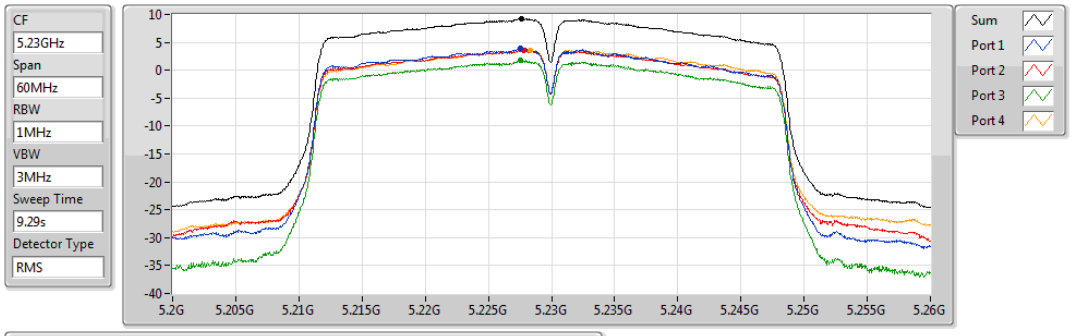
5190MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.57	6.57	0.71	0.66	0.54	0.49

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

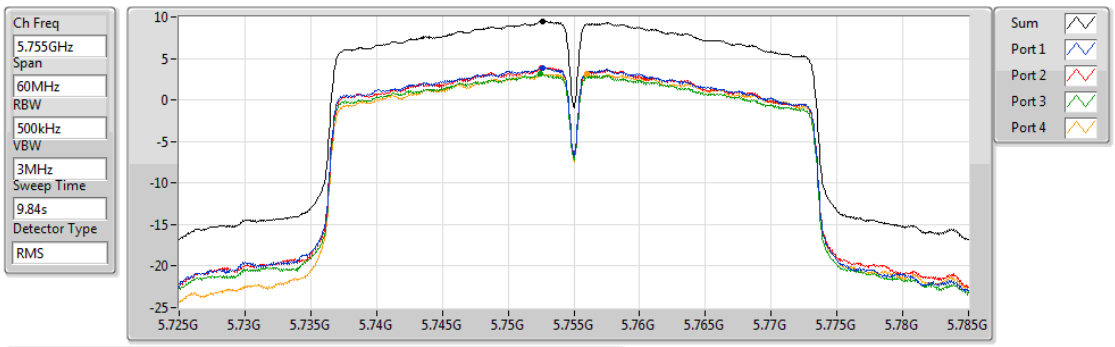
5230MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.22	9.22	3.94	3.54	1.80	3.58

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

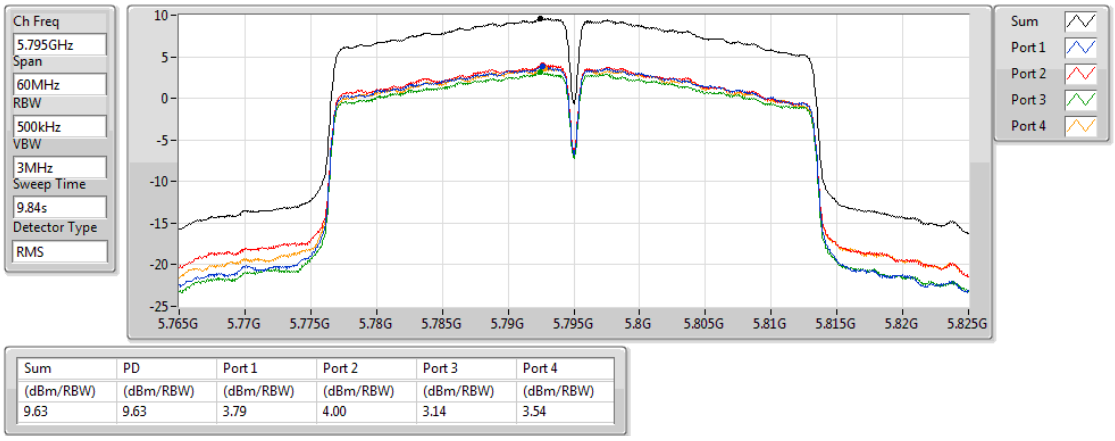
5755MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.50	9.50	3.87	3.83	3.12	3.15

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

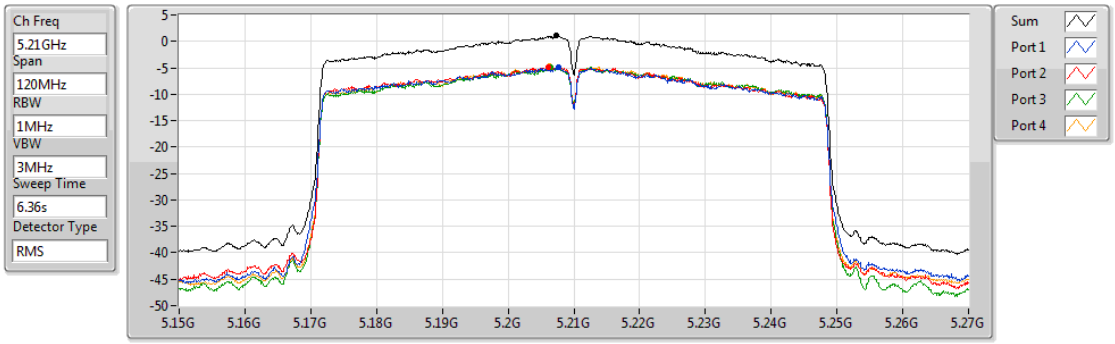
5795MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.63	9.63	3.79	4.00	3.14	3.54

802.11ac VHT80_Nss1,(MCS0)_4TX PSD

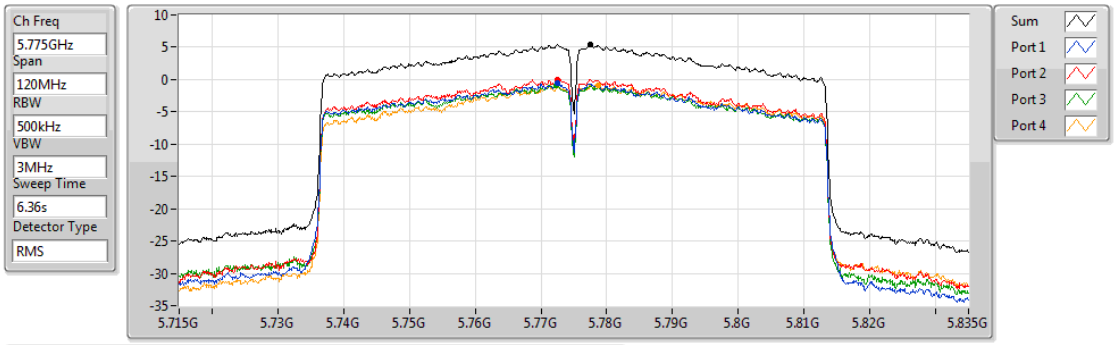
5210MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.08	1.08	-4.78	-4.78	-4.94	-4.69

802.11ac VHT80_Nss1,(MCS0)_4TX PSD

5775MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.36	5.36	-0.50	0.03	-0.89	-0.87

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)_4TX	Pass	QP	119.24M	40.37	43.50	-3.13	-8.00	3	Horizontal	87	1.00	-

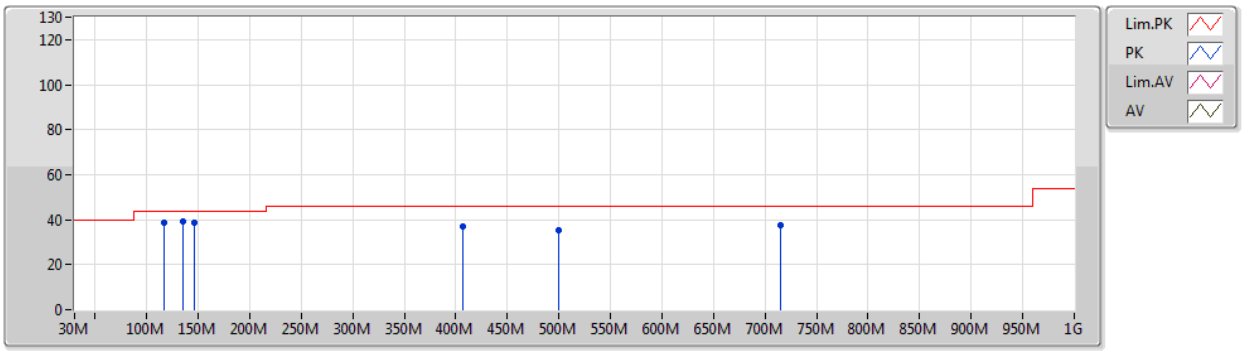
Result

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)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz_AC Mains	Pass	PK	406.36M	36.86	46.00	-9.14	-2.94	3	Vertical	360	1.00	-
5775MHz_AC Mains	Pass	PK	499.48M	35.36	46.00	-10.64	-1.58	3	Vertical	360	1.00	-
5775MHz_AC Mains	Pass	PK	714.82M	37.80	46.00	-8.20	0.58	3	Vertical	360	1.00	-
5775MHz_AC Mains	Pass	QP	117.3M	38.41	43.50	-5.09	-8.10	3	Vertical	131	1.00	-
5775MHz_AC Mains	Pass	QP	134.76M	39.00	43.50	-4.50	-8.33	3	Vertical	189	1.00	-
5775MHz_AC Mains	Pass	QP	146.4M	38.75	43.50	-4.75	-9.25	3	Vertical	201	1.00	-
5775MHz_AC Mains	Pass	PK	144.46M	39.08	43.50	-4.42	-9.12	3	Horizontal	360	1.00	-
5775MHz_AC Mains	Pass	PK	218.18M	34.18	46.00	-11.82	-10.06	3	Horizontal	360	1.00	-
5775MHz_AC Mains	Pass	PK	303.54M	34.27	46.00	-11.73	-5.83	3	Horizontal	360	1.00	-
5775MHz_AC Mains	Pass	PK	394.72M	34.16	46.00	-11.84	-3.60	3	Horizontal	360	1.00	-
5775MHz_AC Mains	Pass	PK	499.48M	29.34	46.00	-16.66	-1.58	3	Horizontal	360	1.00	-
5775MHz_AC Mains	Pass	QP	119.24M	40.37	43.50	-3.13	-8.00	3	Horizontal	87	1.00	-

802.11ac VHT80_Nss1,(MCS0)_4TX

23/03/2019

5775MHz_AC Mains

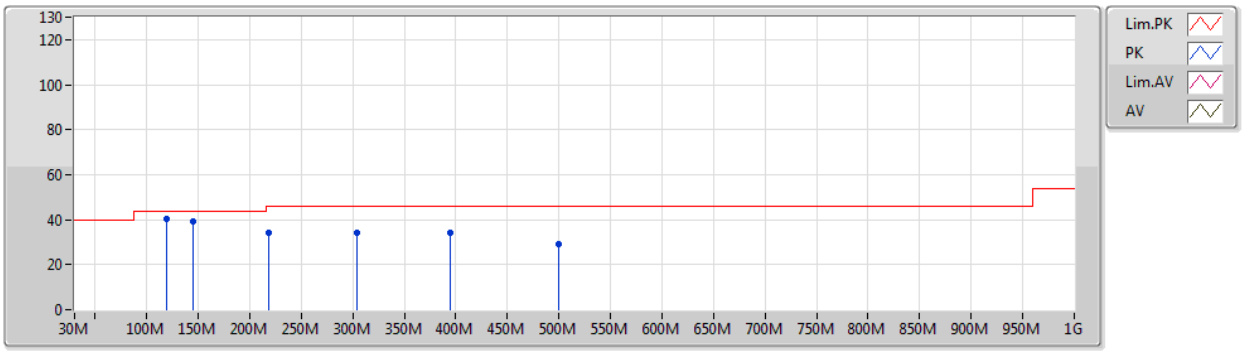


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	406.36M	36.86	46.00	-9.14	-2.94	3	Vertical	360	1.00	-
PK	499.48M	35.36	46.00	-10.64	-1.58	3	Vertical	360	1.00	-
PK	714.82M	37.80	46.00	-8.20	0.58	3	Vertical	360	1.00	-
QP	117.3M	38.41	43.50	-5.09	-8.10	3	Vertical	131	1.00	-
QP	134.76M	39.00	43.50	-4.50	-8.33	3	Vertical	189	1.00	-
QP	146.4M	38.75	43.50	-4.75	-9.25	3	Vertical	201	1.00	-

802.11ac VHT80_Nss1,(MCS0)_4TX

23/03/2019

5775MHz_AC Mains



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	144.46M	39.08	43.50	-4.42	-9.12	3	Horizontal	360	1.00	-
PK	218.18M	34.18	46.00	-11.82	-10.06	3	Horizontal	360	1.00	-
PK	303.54M	34.27	46.00	-11.73	-5.83	3	Horizontal	360	1.00	-
PK	394.72M	34.16	46.00	-11.84	-3.60	3	Horizontal	360	1.00	-
PK	499.48M	29.34	46.00	-16.66	-1.58	3	Horizontal	360	1.00	-
QP	119.24M	40.37	43.50	-3.13	-8.00	3	Horizontal	87	1.00	-

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)_4TX	Pass	AV	5.1488G	53.88	54.00	-0.12	7.99	3	Horizontal	189	2.54	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	AV	5.15G	49.99	54.00	-4.01	4.09	3	Horizontal	176	2.68	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	AV	5.15G	53.86	54.00	-0.14	4.09	3	Horizontal	166	1.01	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	AV	5.149G	53.94	54.00	-0.06	4.09	3	Horizontal	170	1.01	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	11.65024G	51.90	54.00	-2.10	15.51	3	Horizontal	188	2.57	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	AV	11.56958G	49.48	54.00	-4.52	15.53	3	Horizontal	184	2.55	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	PK	5.6518G	63.57	69.53	-5.96	4.81	3	Horizontal	191	1.50	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	PK	5.6502G	62.38	68.35	-5.97	4.80	3	Vertical	182	1.08	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TX	Pass	AV	5.1494G	52.43	54.00	-1.57	7.99	3	Vertical	284	1.60	-
5180MHz_TX	Pass	AV	5.1818G	102.56	Inf	-Inf	7.97	3	Vertical	284	1.60	-
5180MHz_TX	Pass	PK	5.1498G	69.35	74.00	-4.65	7.99	3	Vertical	284	1.60	-
5180MHz_TX	Pass	PK	5.1814G	110.71	Inf	-Inf	7.97	3	Vertical	284	1.60	-
5180MHz_TX	Pass	AV	5.1488G	53.88	54.00	-0.12	7.99	3	Horizontal	189	2.54	-
5180MHz_TX	Pass	AV	5.1788G	105.44	Inf	-Inf	7.97	3	Horizontal	189	2.54	-
5180MHz_TX	Pass	PK	5.1494G	68.08	74.00	-5.92	7.99	3	Horizontal	189	2.54	-
5180MHz_TX	Pass	PK	5.1792G	113.89	Inf	-Inf	7.97	3	Horizontal	189	2.54	-
5180MHz_TX	Pass	AV	10.35622G	44.24	Inf	-Inf	14.30	3	Vertical	180	1.32	-
5180MHz_TX	Pass	PK	10.35358G	56.71	68.20	-11.49	14.30	3	Vertical	180	1.32	-
5180MHz_TX	Pass	AV	10.35652G	44.07	Inf	-Inf	14.30	3	Horizontal	158	2.89	-
5180MHz_TX	Pass	PK	10.35772G	56.93	68.20	-11.27	14.30	3	Horizontal	158	2.89	-
5200MHz_TX	Pass	AV	5.1496G	50.30	54.00	-3.70	7.99	3	Vertical	299	1.40	-
5200MHz_TX	Pass	AV	5.2012G	105.35	Inf	-Inf	7.95	3	Vertical	299	1.40	-
5200MHz_TX	Pass	PK	5.1484G	62.59	74.00	-11.41	7.99	3	Vertical	299	1.40	-
5200MHz_TX	Pass	PK	5.2012G	113.01	Inf	-Inf	7.95	3	Vertical	299	1.40	-
5200MHz_TX	Pass	AV	5.15G	51.61	54.00	-2.39	7.99	3	Horizontal	174	2.54	-
5200MHz_TX	Pass	AV	5.1984G	107.61	Inf	-Inf	7.95	3	Horizontal	174	2.54	-
5200MHz_TX	Pass	PK	5.1484G	64.01	74.00	-9.99	7.99	3	Horizontal	174	2.54	-
5200MHz_TX	Pass	PK	5.1984G	116.43	Inf	-Inf	7.95	3	Horizontal	174	2.54	-
5200MHz_TX	Pass	AV	10.40006G	46.55	Inf	-Inf	14.42	3	Vertical	146	1.01	-
5200MHz_TX	Pass	PK	10.4018G	59.73	68.20	-8.47	14.42	3	Vertical	146	1.01	-
5200MHz_TX	Pass	AV	10.39796G	45.81	Inf	-Inf	14.41	3	Horizontal	168	2.99	-
5200MHz_TX	Pass	PK	10.3955G	59.21	68.20	-8.99	14.40	3	Horizontal	168	2.99	-
5240MHz_TX	Pass	AV	5.1404G	49.63	54.00	-4.37	8.00	3	Vertical	298	1.56	-
5240MHz_TX	Pass	AV	5.2412G	105.58	Inf	-Inf	7.88	3	Vertical	298	1.56	-
5240MHz_TX	Pass	AV	5.3516G	49.27	54.00	-4.73	7.93	3	Vertical	298	1.56	-
5240MHz_TX	Pass	PK	5.0924G	60.89	74.00	-13.11	8.00	3	Vertical	298	1.56	-
5240MHz_TX	Pass	PK	5.2412G	113.47	Inf	-Inf	7.88	3	Vertical	298	1.56	-
5240MHz_TX	Pass	PK	5.3798G	60.80	74.00	-13.20	8.03	3	Vertical	298	1.56	-
5240MHz_TX	Pass	AV	5.1194G	50.12	54.00	-3.88	8.01	3	Horizontal	189	2.64	-
5240MHz_TX	Pass	AV	5.2388G	107.43	Inf	-Inf	7.87	3	Horizontal	189	2.64	-
5240MHz_TX	Pass	AV	5.3618G	49.35	54.00	-4.65	7.96	3	Horizontal	189	2.64	-
5240MHz_TX	Pass	PK	5.1344G	61.11	74.00	-12.89	8.00	3	Horizontal	189	2.64	-
5240MHz_TX	Pass	PK	5.2394G	116.01	Inf	-Inf	7.87	3	Horizontal	189	2.64	-
5240MHz_TX	Pass	PK	5.3726G	60.53	74.00	-13.47	8.00	3	Horizontal	189	2.64	-
5240MHz_TX	Pass	AV	10.48204G	44.01	Inf	-Inf	14.64	3	Vertical	177	1.66	-
5240MHz_TX	Pass	PK	10.4854G	57.03	68.20	-11.17	14.65	3	Vertical	177	1.66	-
5240MHz_TX	Pass	AV	10.47352G	46.23	Inf	-Inf	14.61	3	Horizontal	168	2.92	-
5240MHz_TX	Pass	PK	10.47514G	58.92	68.20	-9.28	14.62	3	Horizontal	168	2.92	-
5745MHz_TX	Pass	AV	5.7462G	107.78	Inf	-Inf	8.77	3	Vertical	201	1.39	-
5745MHz_TX	Pass	PK	5.493G	61.78	68.20	-6.42	8.57	3	Vertical	201	1.39	-
5745MHz_TX	Pass	PK	5.7462G	115.25	Inf	-Inf	8.77	3	Vertical	201	1.39	-
5745MHz_TX	Pass	PK	5.9706G	61.90	68.20	-6.30	9.30	3	Vertical	201	1.39	-
5745MHz_TX	Pass	AV	5.7438G	109.96	Inf	-Inf	8.76	3	Horizontal	167	1.40	-
5745MHz_TX	Pass	PK	5.6142G	62.29	68.20	-5.91	8.50	3	Horizontal	167	1.40	-
5745MHz_TX	Pass	PK	5.7438G	118.53	Inf	-Inf	8.76	3	Horizontal	167	1.40	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz_TX	Pass	PK	5.955G	62.36	68.20	-5.84	9.28	3	Horizontal	167	1.40	-
5745MHz_TX	Pass	AV	11.48982G	47.09	54.00	-6.91	15.56	3	Vertical	124	1.26	-
5745MHz_TX	Pass	PK	11.48988G	59.60	74.00	-14.40	15.56	3	Vertical	124	1.26	-
5745MHz_TX	Pass	AV	11.48766G	49.20	54.00	-4.80	15.57	3	Horizontal	180	2.49	-
5745MHz_TX	Pass	PK	11.48826G	62.71	74.00	-11.29	15.57	3	Horizontal	180	2.49	-
5785MHz_TX	Pass	AV	5.7862G	107.70	Inf	-Inf	8.88	3	Vertical	201	1.49	-
5785MHz_TX	Pass	PK	5.6086G	61.16	68.20	-7.04	8.50	3	Vertical	201	1.49	-
5785MHz_TX	Pass	PK	5.7862G	115.17	Inf	-Inf	8.88	3	Vertical	201	1.49	-
5785MHz_TX	Pass	PK	5.9638G	62.14	68.20	-6.06	9.28	3	Vertical	201	1.49	-
5785MHz_TX	Pass	AV	5.7862G	109.96	Inf	-Inf	8.88	3	Horizontal	172	1.50	-
5785MHz_TX	Pass	PK	5.5474G	61.91	68.20	-6.29	8.56	3	Horizontal	172	1.50	-
5785MHz_TX	Pass	PK	5.785G	118.22	Inf	-Inf	8.88	3	Horizontal	172	1.50	-
5785MHz_TX	Pass	PK	5.9314G	62.03	68.20	-6.17	9.23	3	Horizontal	172	1.50	-
5785MHz_TX	Pass	AV	11.57G	47.19	54.00	-6.81	15.53	3	Vertical	121	1.29	-
5785MHz_TX	Pass	PK	11.56832G	59.95	74.00	-14.05	15.53	3	Vertical	121	1.29	-
5785MHz_TX	Pass	AV	11.5724G	47.33	54.00	-6.67	15.54	3	Horizontal	170	2.81	-
5785MHz_TX	Pass	PK	11.57168G	59.92	74.00	-14.08	15.53	3	Horizontal	170	2.81	-
5825MHz_TX	Pass	AV	5.8274G	108.84	Inf	-Inf	8.98	3	Vertical	136	1.50	-
5825MHz_TX	Pass	PK	5.6006G	61.35	68.20	-6.85	8.48	3	Vertical	136	1.50	-
5825MHz_TX	Pass	PK	5.8274G	116.86	Inf	-Inf	8.98	3	Vertical	136	1.50	-
5825MHz_TX	Pass	PK	5.9366G	61.96	68.20	-6.24	9.25	3	Vertical	136	1.50	-
5825MHz_TX	Pass	AV	5.8238G	110.47	Inf	-Inf	8.97	3	Horizontal	168	1.44	-
5825MHz_TX	Pass	PK	5.6366G	61.54	68.20	-6.66	8.55	3	Horizontal	168	1.44	-
5825MHz_TX	Pass	PK	5.8238G	119.10	Inf	-Inf	8.97	3	Horizontal	168	1.44	-
5825MHz_TX	Pass	PK	5.9882G	61.98	68.20	-6.22	9.33	3	Horizontal	168	1.44	-
5825MHz_TX	Pass	AV	11.64796G	47.51	54.00	-6.49	15.50	3	Vertical	121	1.70	-
5825MHz_TX	Pass	PK	11.6464G	61.05	74.00	-12.95	15.51	3	Vertical	121	1.70	-
5825MHz_TX	Pass	AV	11.65024G	51.90	54.00	-2.10	15.51	3	Horizontal	188	2.57	-
5825MHz_TX	Pass	PK	11.65006G	64.26	74.00	-9.74	15.51	3	Horizontal	188	2.57	-
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz_TX	Pass	AV	5.1474G	45.83	54.00	-8.17	4.09	3	Vertical	283	1.50	-
5180MHz_TX	Pass	AV	5.1822G	99.18	Inf	-Inf	4.12	3	Vertical	283	1.50	-
5180MHz_TX	Pass	PK	5.1472G	59.34	74.00	-14.66	4.09	3	Vertical	283	1.50	-
5180MHz_TX	Pass	PK	5.1824G	109.46	Inf	-Inf	4.12	3	Vertical	283	1.50	-
5180MHz_TX	Pass	AV	5.15G	49.99	54.00	-4.01	4.09	3	Horizontal	176	2.68	-
5180MHz_TX	Pass	AV	5.1796G	103.88	Inf	-Inf	4.12	3	Horizontal	176	2.68	-
5180MHz_TX	Pass	PK	5.1492G	65.55	74.00	-8.45	4.09	3	Horizontal	176	2.68	-
5180MHz_TX	Pass	PK	5.179G	112.50	Inf	-Inf	4.12	3	Horizontal	176	2.68	-
5180MHz_TX	Pass	AV	10.35994G	45.85	Inf	-Inf	14.30	3	Vertical	151	1.19	-
5180MHz_TX	Pass	PK	10.36018G	58.16	68.20	-10.04	14.30	3	Vertical	151	1.19	-
5180MHz_TX	Pass	AV	10.36072G	44.69	Inf	-Inf	14.31	3	Horizontal	172	1.62	-
5180MHz_TX	Pass	PK	10.35682G	57.64	68.20	-10.56	14.30	3	Horizontal	172	1.62	-
5200MHz_TX	Pass	AV	5.1484G	45.63	54.00	-8.37	4.09	3	Vertical	283	1.50	-
5200MHz_TX	Pass	AV	5.1972G	101.78	Inf	-Inf	4.15	3	Vertical	283	1.50	-
5200MHz_TX	Pass	PK	5.1468G	59.10	74.00	-14.90	4.09	3	Vertical	283	1.50	-
5200MHz_TX	Pass	PK	5.2024G	112.33	Inf	-Inf	4.15	3	Vertical	283	1.50	-
5200MHz_TX	Pass	AV	5.15G	49.38	54.00	-4.62	4.09	3	Horizontal	174	1.15	-
5200MHz_TX	Pass	AV	5.1996G	106.34	Inf	-Inf	4.15	3	Horizontal	174	1.15	-
5200MHz_TX	Pass	PK	5.146G	64.81	74.00	-9.19	4.09	3	Horizontal	174	1.15	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5200MHz_TX	Pass	PK	5.1988G	115.90	Inf	-Inf	4.15	3	Horizontal	174	1.15	-
5200MHz_TX	Pass	AV	10.40018G	45.81	Inf	-Inf	14.42	3	Vertical	177	1.50	-
5200MHz_TX	Pass	PK	10.39814G	58.63	68.20	-9.57	14.41	3	Vertical	177	1.50	-
5200MHz_TX	Pass	AV	10.4015G	47.12	Inf	-Inf	14.42	3	Horizontal	169	2.99	-
5200MHz_TX	Pass	PK	10.397G	60.98	68.20	-7.22	14.41	3	Horizontal	169	2.99	-
5240MHz_TX	Pass	AV	5.1308G	44.73	54.00	-9.27	4.07	3	Vertical	279	1.58	-
5240MHz_TX	Pass	AV	5.2424G	102.52	Inf	-Inf	4.20	3	Vertical	279	1.58	-
5240MHz_TX	Pass	AV	5.3624G	44.02	54.00	-9.98	4.34	3	Vertical	279	1.58	-
5240MHz_TX	Pass	PK	5.1482G	57.63	74.00	-16.37	4.09	3	Vertical	279	1.58	-
5240MHz_TX	Pass	PK	5.2424G	112.92	Inf	-Inf	4.20	3	Vertical	279	1.58	-
5240MHz_TX	Pass	PK	5.3774G	56.27	74.00	-17.73	4.36	3	Vertical	279	1.58	-
5240MHz_TX	Pass	AV	5.144G	46.37	54.00	-7.63	4.09	3	Horizontal	170	1.16	-
5240MHz_TX	Pass	AV	5.2394G	106.02	Inf	-Inf	4.19	3	Horizontal	170	1.16	-
5240MHz_TX	Pass	AV	5.3516G	45.03	54.00	-8.97	4.32	3	Horizontal	170	1.16	-
5240MHz_TX	Pass	PK	5.1236G	58.48	74.00	-15.52	4.05	3	Horizontal	170	1.16	-
5240MHz_TX	Pass	PK	5.2388G	115.52	Inf	-Inf	4.19	3	Horizontal	170	1.16	-
5240MHz_TX	Pass	PK	5.3648G	56.87	74.00	-17.13	4.34	3	Horizontal	170	1.16	-
5240MHz_TX	Pass	AV	10.4797G	45.54	Inf	-Inf	14.64	3	Vertical	149	1.21	-
5240MHz_TX	Pass	PK	10.48456G	58.42	68.20	-9.78	14.65	3	Vertical	149	1.21	-
5240MHz_TX	Pass	AV	10.47772G	46.53	Inf	-Inf	14.63	3	Horizontal	171	1.64	-
5240MHz_TX	Pass	PK	10.48372G	60.17	68.20	-8.03	14.65	3	Horizontal	171	1.64	-
5745MHz_TX	Pass	AV	5.745G	105.34	Inf	-Inf	5.00	3	Vertical	192	1.13	-
5745MHz_TX	Pass	PK	5.6382G	58.01	68.20	-10.19	4.79	3	Vertical	192	1.13	-
5745MHz_TX	Pass	PK	5.7438G	113.74	Inf	-Inf	5.00	3	Vertical	192	1.13	-
5745MHz_TX	Pass	PK	5.9598G	57.45	68.20	-10.75	5.43	3	Vertical	192	1.13	-
5745MHz_TX	Pass	AV	5.745G	107.45	Inf	-Inf	5.00	3	Horizontal	172	1.46	-
5745MHz_TX	Pass	PK	5.631G	58.69	68.20	-9.51	4.77	3	Horizontal	172	1.46	-
5745MHz_TX	Pass	PK	5.7438G	116.22	Inf	-Inf	5.00	3	Horizontal	172	1.46	-
5745MHz_TX	Pass	PK	5.9622G	57.78	68.20	-10.42	5.44	3	Horizontal	172	1.46	-
5745MHz_TX	Pass	AV	11.48958G	47.28	54.00	-6.72	15.56	3	Vertical	124	1.23	-
5745MHz_TX	Pass	PK	11.48442G	60.04	74.00	-13.96	15.57	3	Vertical	124	1.23	-
5745MHz_TX	Pass	AV	11.48928G	49.16	54.00	-4.84	15.57	3	Horizontal	177	2.47	-
5745MHz_TX	Pass	PK	11.48946G	62.08	74.00	-11.92	15.56	3	Horizontal	177	2.47	-
5785MHz_TX	Pass	AV	5.7862G	104.87	Inf	-Inf	5.08	3	Vertical	180	1.28	-
5785MHz_TX	Pass	PK	5.5678G	57.32	68.20	-10.88	4.63	3	Vertical	180	1.28	-
5785MHz_TX	Pass	PK	5.7862G	115.16	Inf	-Inf	5.08	3	Vertical	180	1.28	-
5785MHz_TX	Pass	PK	5.9698G	57.25	68.20	-10.95	5.46	3	Vertical	180	1.28	-
5785MHz_TX	Pass	AV	5.7874G	108.31	Inf	-Inf	5.08	3	Horizontal	168	2.53	-
5785MHz_TX	Pass	PK	5.6338G	58.52	68.20	-9.68	4.78	3	Horizontal	168	2.53	-
5785MHz_TX	Pass	PK	5.7826G	117.36	Inf	-Inf	5.07	3	Horizontal	168	2.53	-
5785MHz_TX	Pass	PK	5.9434G	57.23	68.20	-10.97	5.41	3	Horizontal	168	2.53	-
5785MHz_TX	Pass	AV	11.5697G	47.38	54.00	-6.62	15.53	3	Vertical	142	2.91	-
5785MHz_TX	Pass	PK	11.5748G	60.01	74.00	-13.99	15.54	3	Vertical	142	2.91	-
5785MHz_TX	Pass	AV	11.56958G	49.48	54.00	-4.52	15.53	3	Horizontal	184	2.55	-
5785MHz_TX	Pass	PK	11.56922G	62.53	74.00	-11.47	15.53	3	Horizontal	184	2.55	-
5825MHz_TX	Pass	AV	5.8262G	100.74	Inf	-Inf	5.17	3	Vertical	182	1.43	-
5825MHz_TX	Pass	PK	5.6114G	57.85	68.20	-10.35	4.73	3	Vertical	182	1.43	-
5825MHz_TX	Pass	PK	5.8262G	110.48	Inf	-Inf	5.17	3	Vertical	182	1.43	-
5825MHz_TX	Pass	PK	5.927G	57.66	68.20	-10.54	5.37	3	Vertical	182	1.43	-

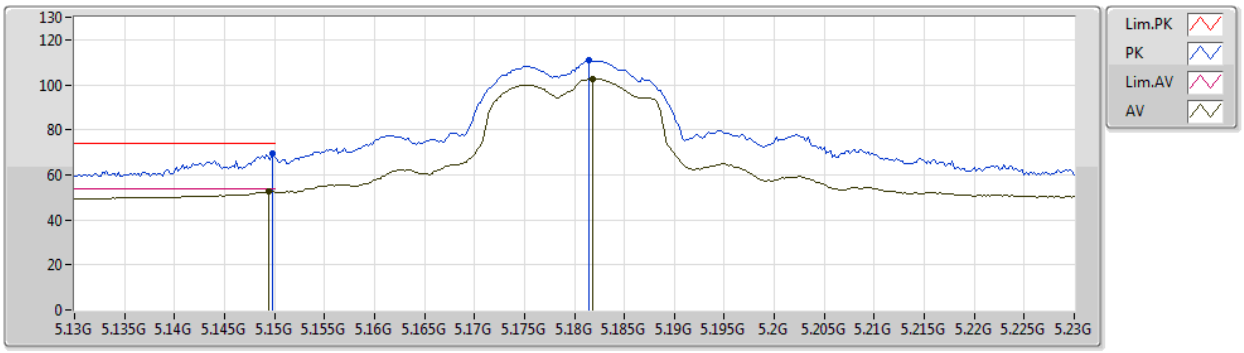
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5825MHz_TX	Pass	AV	5.8262G	103.98	Inf	-Inf	5.17	3	Horizontal	171	2.47	-
5825MHz_TX	Pass	PK	5.6198G	57.26	68.20	-10.94	4.75	3	Horizontal	171	2.47	-
5825MHz_TX	Pass	PK	5.8262G	113.58	Inf	-Inf	5.17	3	Horizontal	171	2.47	-
5825MHz_TX	Pass	PK	5.9318G	58.82	68.20	-9.38	5.38	3	Horizontal	171	2.47	-
5825MHz_TX	Pass	AV	11.64664G	45.00	54.00	-9.00	15.50	3	Vertical	173	1.38	-
5825MHz_TX	Pass	PK	11.65612G	57.36	74.00	-16.64	15.50	3	Vertical	173	1.38	-
5825MHz_TX	Pass	AV	11.65156G	46.39	54.00	-7.61	15.51	3	Horizontal	207	2.13	-
5825MHz_TX	Pass	PK	11.64706G	58.44	74.00	-15.56	15.50	3	Horizontal	207	2.13	-
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz_TX	Pass	AV	5.1476G	47.76	54.00	-6.24	4.09	3	Vertical	282	1.58	-
5190MHz_TX	Pass	AV	5.1872G	95.95	Inf	-Inf	4.13	3	Vertical	282	1.58	-
5190MHz_TX	Pass	PK	5.15G	60.81	74.00	-13.19	4.09	3	Vertical	282	1.58	-
5190MHz_TX	Pass	PK	5.192G	104.66	Inf	-Inf	4.14	3	Vertical	282	1.58	-
5190MHz_TX	Pass	AV	5.1492G	52.57	54.00	-1.43	4.09	3	Horizontal	167	1.05	-
5190MHz_TX	Pass	AV	5.1844G	100.41	Inf	-Inf	4.13	3	Horizontal	167	1.05	-
5190MHz_TX	Pass	PK	5.1444G	65.75	74.00	-8.25	4.09	3	Horizontal	167	1.05	-
5190MHz_TX	Pass	PK	5.1992G	108.58	Inf	-Inf	4.15	3	Horizontal	167	1.05	-
5190MHz_TX	Pass	AV	10.38154G	43.75	Inf	-Inf	14.36	3	Vertical	60	1.50	-
5190MHz_TX	Pass	PK	10.37528G	56.51	68.20	-11.69	14.35	3	Vertical	60	1.50	-
5190MHz_TX	Pass	AV	10.3797G	43.93	Inf	-Inf	14.36	3	Horizontal	58	1.50	-
5190MHz_TX	Pass	PK	10.39242G	55.74	68.20	-12.46	14.39	3	Horizontal	58	1.50	-
5230MHz_TX	Pass	AV	5.148G	46.94	54.00	-7.06	4.09	3	Vertical	280	1.75	-
5230MHz_TX	Pass	AV	5.2272G	100.71	Inf	-Inf	4.18	3	Vertical	280	1.75	-
5230MHz_TX	Pass	PK	5.1384G	59.49	74.00	-14.51	4.07	3	Vertical	280	1.75	-
5230MHz_TX	Pass	PK	5.2272G	109.61	Inf	-Inf	4.18	3	Vertical	280	1.75	-
5230MHz_TX	Pass	AV	5.15G	53.86	54.00	-0.14	4.09	3	Horizontal	166	1.01	-
5230MHz_TX	Pass	AV	5.2288G	104.21	Inf	-Inf	4.18	3	Horizontal	166	1.01	-
5230MHz_TX	Pass	PK	5.1496G	65.59	74.00	-8.41	4.09	3	Horizontal	166	1.01	-
5230MHz_TX	Pass	PK	5.2288G	112.49	Inf	-Inf	4.18	3	Horizontal	166	1.01	-
5230MHz_TX	Pass	AV	10.45574G	45.69	Inf	-Inf	14.57	3	Vertical	143	1.11	-
5230MHz_TX	Pass	PK	10.4504G	57.03	68.20	-11.17	14.56	3	Vertical	143	1.11	-
5230MHz_TX	Pass	AV	10.45658G	45.89	Inf	-Inf	14.57	3	Horizontal	168	1.69	-
5230MHz_TX	Pass	PK	10.45322G	57.87	68.20	-10.33	14.56	3	Horizontal	168	1.69	-
5755MHz_TX	Pass	AV	5.7538G	102.28	Inf	-Inf	5.02	3	Vertical	174	1.95	-
5755MHz_TX	Pass	PK	5.6482G	60.60	68.20	-7.60	4.81	3	Vertical	174	1.95	-
5755MHz_TX	Pass	PK	5.7538G	111.70	Inf	-Inf	5.02	3	Vertical	174	1.95	-
5755MHz_TX	Pass	PK	5.9578G	57.88	68.20	-10.32	5.43	3	Vertical	174	1.95	-
5755MHz_TX	Pass	AV	5.7574G	103.67	Inf	-Inf	5.03	3	Horizontal	191	1.50	-
5755MHz_TX	Pass	PK	5.6518G	63.57	69.53	-5.96	4.81	3	Horizontal	191	1.50	-
5755MHz_TX	Pass	PK	5.7526G	112.11	Inf	-Inf	5.01	3	Horizontal	191	1.50	-
5755MHz_TX	Pass	PK	5.9302G	57.39	68.20	-10.81	5.38	3	Horizontal	191	1.50	-
5755MHz_TX	Pass	AV	11.52122G	44.52	54.00	-9.48	15.55	3	Vertical	100	1.50	-
5755MHz_TX	Pass	PK	11.50202G	56.45	74.00	-17.55	15.55	3	Vertical	100	1.50	-
5755MHz_TX	Pass	AV	11.50958G	46.91	54.00	-7.09	15.55	3	Horizontal	190	2.61	-
5755MHz_TX	Pass	PK	11.5088G	59.24	74.00	-14.76	15.55	3	Horizontal	190	2.61	-
5795MHz_TX	Pass	AV	5.7938G	104.51	Inf	-Inf	5.09	3	Vertical	177	2.05	-
5795MHz_TX	Pass	PK	5.6426G	57.84	68.20	-10.36	4.80	3	Vertical	177	2.05	-
5795MHz_TX	Pass	PK	5.7938G	113.38	Inf	-Inf	5.09	3	Vertical	177	2.05	-
5795MHz_TX	Pass	PK	5.9414G	60.17	68.20	-8.03	5.41	3	Vertical	177	2.05	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz_TX	Pass	AV	5.7974G	105.20	Inf	-Inf	5.11	3	Horizontal	195	1.50	-
5795MHz_TX	Pass	PK	5.6438G	59.25	68.20	-8.95	4.80	3	Horizontal	195	1.50	-
5795MHz_TX	Pass	PK	5.7962G	113.90	Inf	-Inf	5.10	3	Horizontal	195	1.50	-
5795MHz_TX	Pass	PK	5.9258G	59.59	68.20	-8.61	5.37	3	Horizontal	195	1.50	-
5795MHz_TX	Pass	AV	11.5897G	47.14	54.00	-6.86	15.53	3	Vertical	141	2.91	-
5795MHz_TX	Pass	PK	11.5894G	58.17	74.00	-15.83	15.53	3	Vertical	141	2.91	-
5795MHz_TX	Pass	AV	11.58982G	46.39	54.00	-7.61	15.53	3	Horizontal	21	1.70	-
5795MHz_TX	Pass	PK	11.57938G	57.71	74.00	-16.29	15.53	3	Horizontal	21	1.70	-
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz_TX	Pass	AV	5.142G	50.10	54.00	-3.90	4.09	3	Vertical	284	1.84	-
5210MHz_TX	Pass	AV	5.207G	91.88	Inf	-Inf	4.15	3	Vertical	284	1.84	-
5210MHz_TX	Pass	AV	5.429G	46.02	54.00	-7.98	4.42	3	Vertical	284	1.84	-
5210MHz_TX	Pass	PK	5.148G	61.87	74.00	-12.13	4.09	3	Vertical	284	1.84	-
5210MHz_TX	Pass	PK	5.207G	99.39	Inf	-Inf	4.15	3	Vertical	284	1.84	-
5210MHz_TX	Pass	PK	5.449G	56.11	74.00	-17.89	4.44	3	Vertical	284	1.84	-
5210MHz_TX	Pass	AV	5.149G	53.94	54.00	-0.06	4.09	3	Horizontal	170	1.01	-
5210MHz_TX	Pass	AV	5.209G	96.24	Inf	-Inf	4.16	3	Horizontal	170	1.01	-
5210MHz_TX	Pass	AV	5.402G	46.59	54.00	-7.41	4.39	3	Horizontal	170	1.01	-
5210MHz_TX	Pass	PK	5.134G	65.64	74.00	-8.36	4.07	3	Horizontal	170	1.01	-
5210MHz_TX	Pass	PK	5.219G	104.80	Inf	-Inf	4.17	3	Horizontal	170	1.01	-
5210MHz_TX	Pass	PK	5.35G	56.78	74.00	-17.22	4.32	3	Horizontal	170	1.01	-
5210MHz_TX	Pass	AV	10.43284G	45.18	Inf	-Inf	14.51	3	Vertical	281	1.50	-
5210MHz_TX	Pass	PK	10.4095G	55.95	68.20	-12.25	14.44	3	Vertical	281	1.50	-
5210MHz_TX	Pass	AV	10.4113G	45.16	Inf	-Inf	14.45	3	Horizontal	40	1.50	-
5210MHz_TX	Pass	PK	10.42072G	55.59	68.20	-12.61	14.47	3	Horizontal	40	1.50	-
5775MHz_TX	Pass	AV	5.7714G	85.11	Inf	-Inf	5.06	3	Vertical	182	1.08	-
5775MHz_TX	Pass	PK	5.6502G	62.38	68.35	-5.97	4.80	3	Vertical	182	1.08	-
5775MHz_TX	Pass	PK	5.7762G	101.12	Inf	-Inf	5.06	3	Vertical	182	1.08	-
5775MHz_TX	Pass	PK	5.9274G	58.48	68.20	-9.72	5.37	3	Vertical	182	1.08	-
5775MHz_TX	Pass	AV	5.7774G	94.74	Inf	-Inf	5.06	3	Horizontal	193	1.50	-
5775MHz_TX	Pass	PK	5.6118G	57.82	68.20	-10.38	4.73	3	Horizontal	193	1.50	-
5775MHz_TX	Pass	PK	5.7714G	103.63	Inf	-Inf	5.06	3	Horizontal	193	1.50	-
5775MHz_TX	Pass	PK	5.955G	57.05	68.20	-11.15	5.43	3	Horizontal	193	1.50	-
5775MHz_TX	Pass	AV	11.55354G	45.60	54.00	-8.40	15.54	3	Vertical	16	1.50	-
5775MHz_TX	Pass	PK	11.55798G	55.73	74.00	-18.27	15.54	3	Vertical	16	1.50	-
5775MHz_TX	Pass	AV	11.56158G	45.46	54.00	-8.54	15.53	3	Horizontal	267	1.50	-
5775MHz_TX	Pass	PK	11.54976G	56.62	74.00	-17.38	15.54	3	Horizontal	267	1.50	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5180MHz_TX

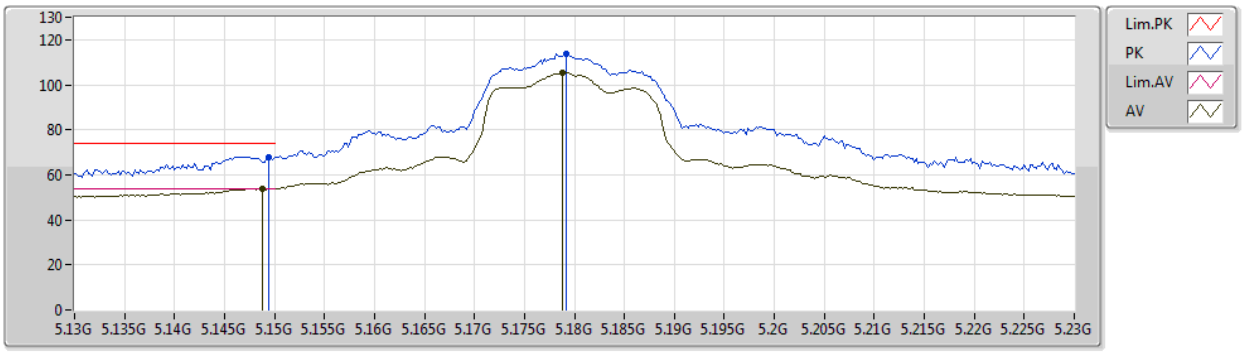


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1494G	52.43	54.00	-1.57	7.99	3	Vertical	284	1.60	-
AV	5.1818G	102.56	Inf	-Inf	7.97	3	Vertical	284	1.60	-
PK	5.1498G	69.35	74.00	-4.65	7.99	3	Vertical	284	1.60	-
PK	5.1814G	110.71	Inf	-Inf	7.97	3	Vertical	284	1.60	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5180MHz_TX

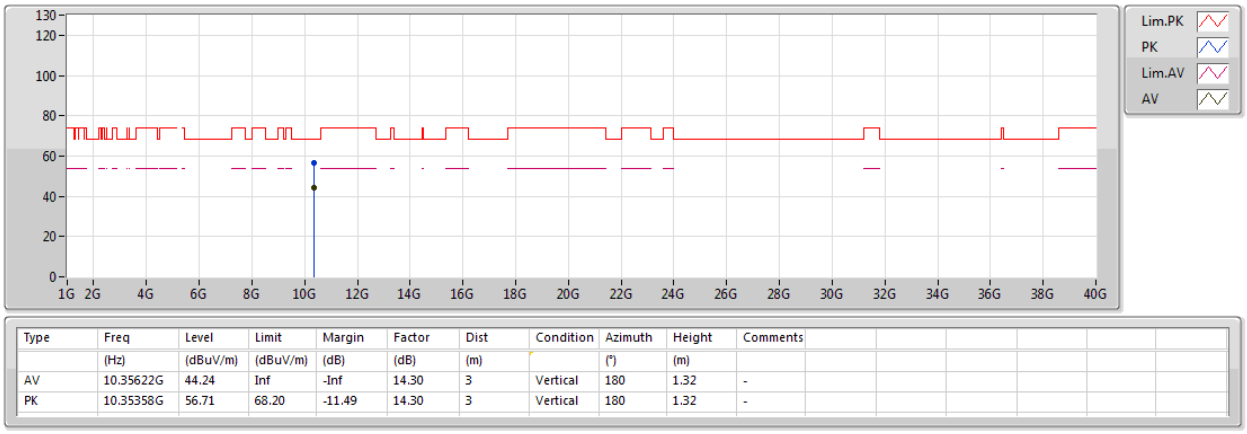


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1488G	53.88	54.00	-0.12	7.99	3	Horizontal	189	2.54	-
AV	5.1788G	105.44	Inf	-Inf	7.97	3	Horizontal	189	2.54	-
PK	5.1494G	68.08	74.00	-5.92	7.99	3	Horizontal	189	2.54	-
PK	5.1792G	113.89	Inf	-Inf	7.97	3	Horizontal	189	2.54	-

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TX

22/03/2019

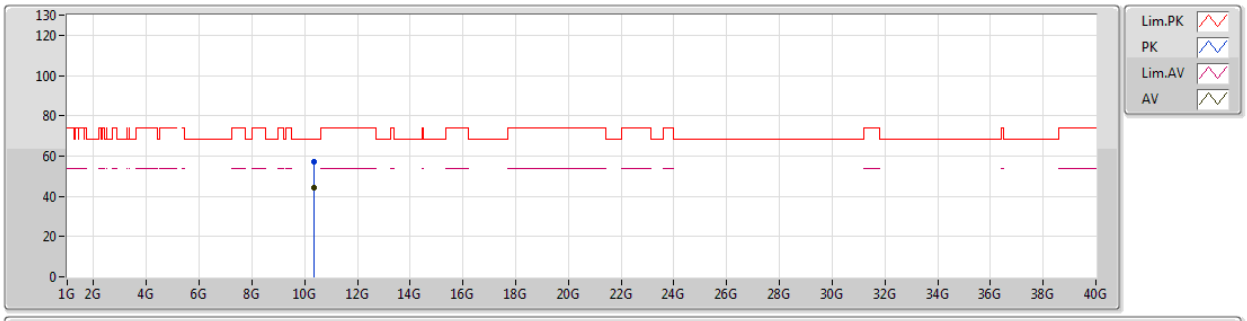


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.35622G	44.24	Inf	-Inf	14.30	3	Vertical	180	1.32	-
PK	10.35358G	56.71	68.20	-11.49	14.30	3	Vertical	180	1.32	-

802.11a_Nss1,(6Mbps)_4TX

5180MHz_TX

22/03/2019

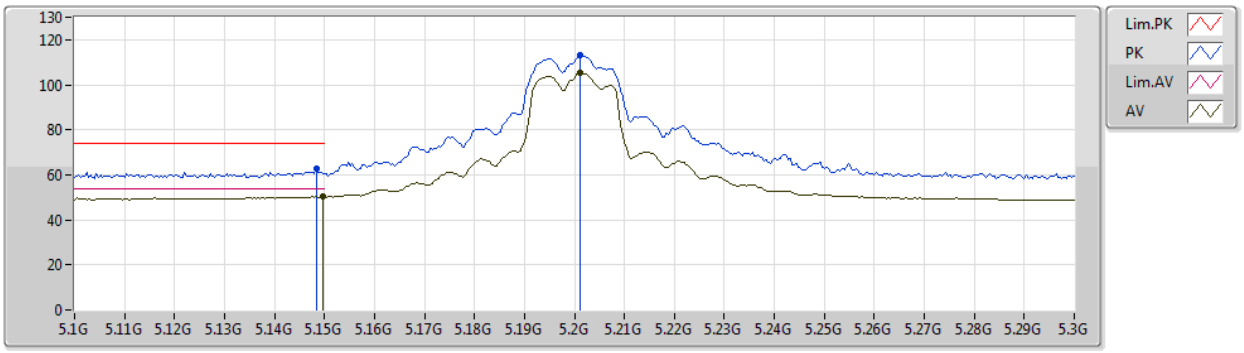


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.35652G	44.07	Inf	-Inf	14.30	3	Horizontal	158	2.89	-
PK	10.35772G	56.93	68.20	-11.27	14.30	3	Horizontal	158	2.89	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5200MHz_TX

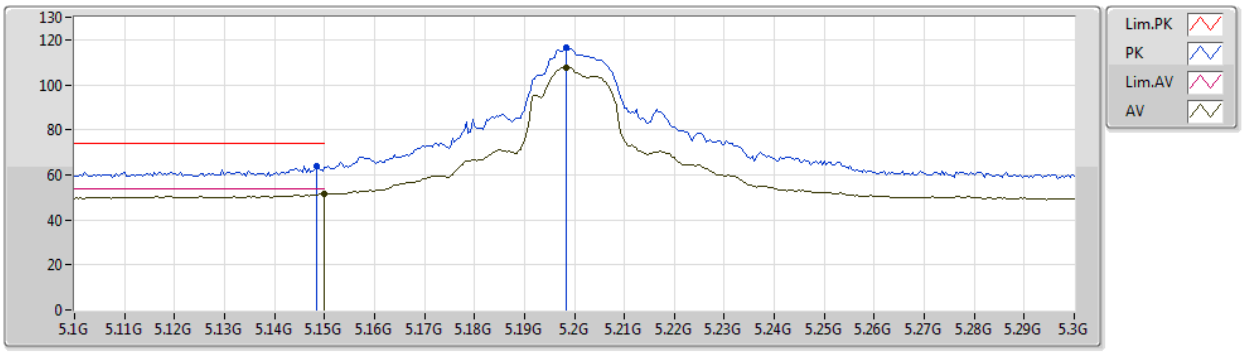


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1496G	50.30	54.00	-3.70	7.99	3	Vertical	299	1.40	-
AV	5.2012G	105.35	Inf	-Inf	7.95	3	Vertical	299	1.40	-
PK	5.1484G	62.59	74.00	-11.41	7.99	3	Vertical	299	1.40	-
PK	5.2012G	113.01	Inf	-Inf	7.95	3	Vertical	299	1.40	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5200MHz_TX

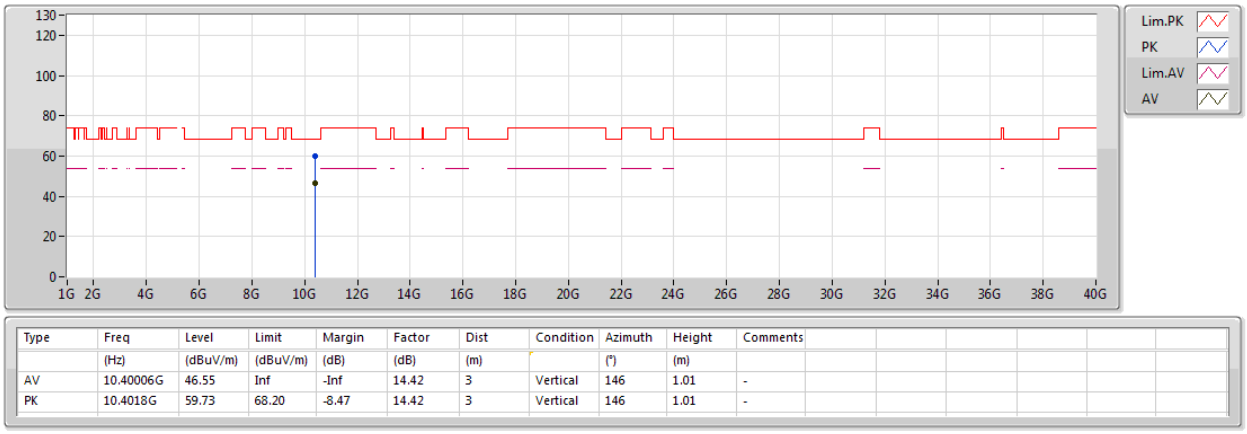


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	51.61	54.00	-2.39	7.99	3	Horizontal	174	2.54	-
AV	5.1984G	107.61	Inf	-Inf	7.95	3	Horizontal	174	2.54	-
PK	5.1484G	64.01	74.00	-9.99	7.99	3	Horizontal	174	2.54	-
PK	5.1984G	116.43	Inf	-Inf	7.95	3	Horizontal	174	2.54	-

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TX

22/03/2019

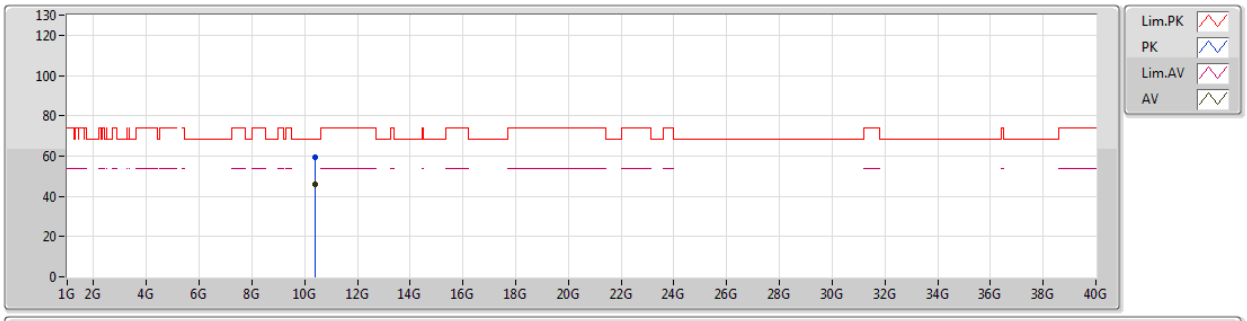


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.40006G	46.55	Inf	-Inf	14.42	3	Vertical	146	1.01	-
PK	10.4018G	59.73	68.20	-8.47	14.42	3	Vertical	146	1.01	-

802.11a_Nss1,(6Mbps)_4TX

5200MHz_TX

22/03/2019

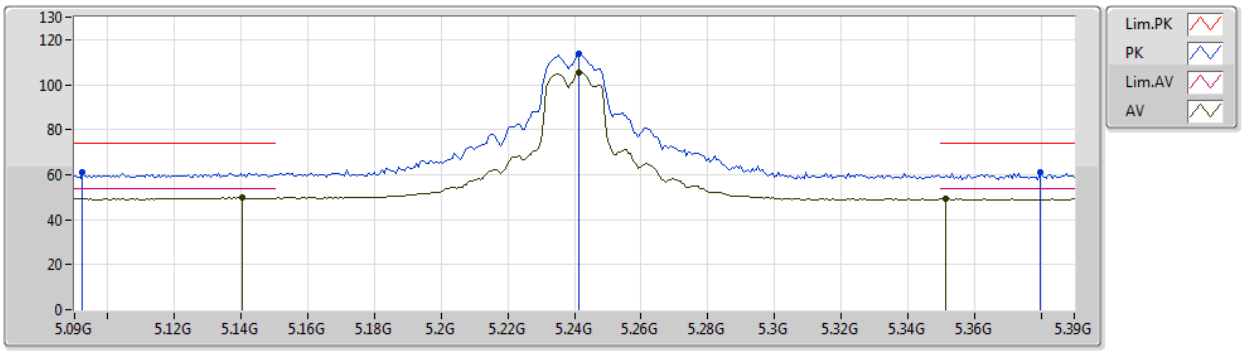


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.39796G	45.81	Inf	-Inf	14.41	3	Horizontal	168	2.99	-
PK	10.3955G	59.21	68.20	-8.99	14.40	3	Horizontal	168	2.99	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5240MHz_TX

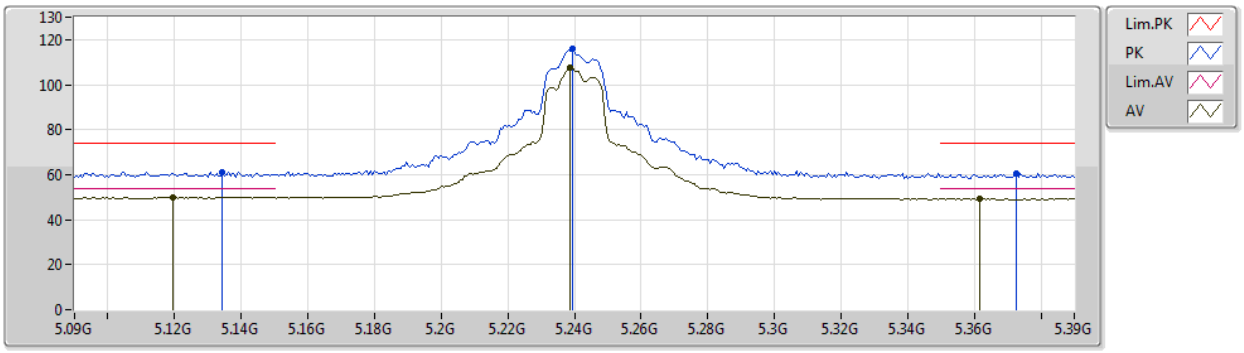


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1404G	49.63	54.00	-4.37	8.00	3	Vertical	298	1.56	-
AV	5.2412G	105.58	Inf	-Inf	7.88	3	Vertical	298	1.56	-
AV	5.3516G	49.27	54.00	-4.73	7.93	3	Vertical	298	1.56	-
PK	5.0924G	60.89	74.00	-13.11	8.00	3	Vertical	298	1.56	-
PK	5.2412G	113.47	Inf	-Inf	7.88	3	Vertical	298	1.56	-
PK	5.3798G	60.80	74.00	-13.20	8.03	3	Vertical	298	1.56	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5240MHz_TX

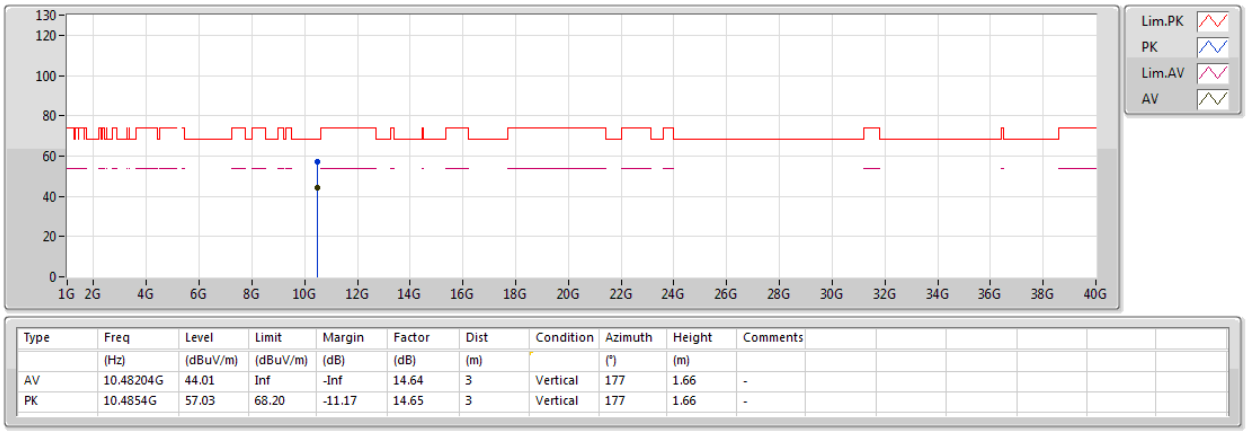


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1194G	50.12	54.00	-3.88	8.01	3	Horizontal	189	2.64	-
AV	5.2388G	107.43	Inf	-Inf	7.87	3	Horizontal	189	2.64	-
AV	5.3618G	49.35	54.00	-4.65	7.96	3	Horizontal	189	2.64	-
PK	5.1344G	61.11	74.00	-12.89	8.00	3	Horizontal	189	2.64	-
PK	5.2394G	116.01	Inf	-Inf	7.87	3	Horizontal	189	2.64	-
PK	5.3726G	60.53	74.00	-13.47	8.00	3	Horizontal	189	2.64	-

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TX

22/03/2019

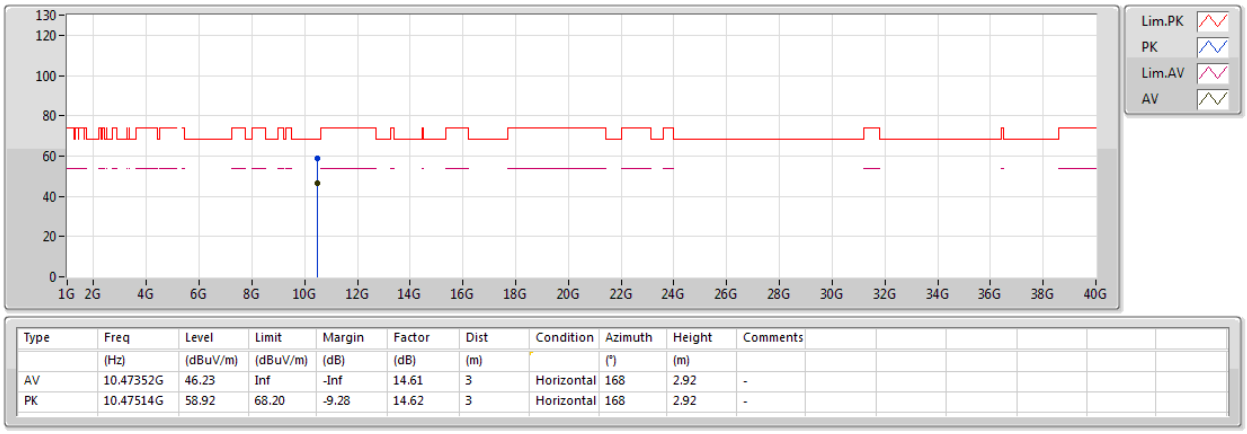


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.48204G	44.01	Inf	-Inf	14.64	3	Vertical	177	1.66	-
PK	10.4854G	57.03	68.20	-11.17	14.65	3	Vertical	177	1.66	-

802.11a_Nss1,(6Mbps)_4TX

5240MHz_TX

22/03/2019

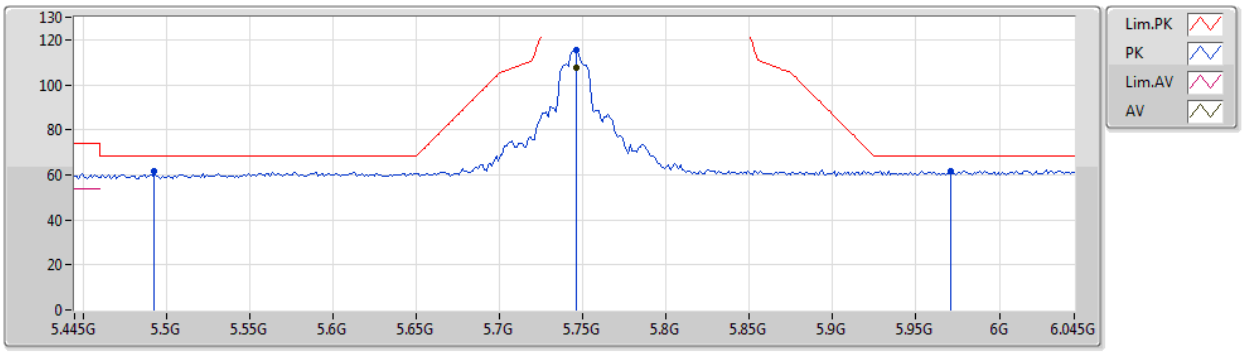


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.47352G	46.23	Inf	-Inf	14.61	3	Horizontal	168	2.92	-
PK	10.47514G	58.92	68.20	-9.28	14.62	3	Horizontal	168	2.92	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5745MHz_TX

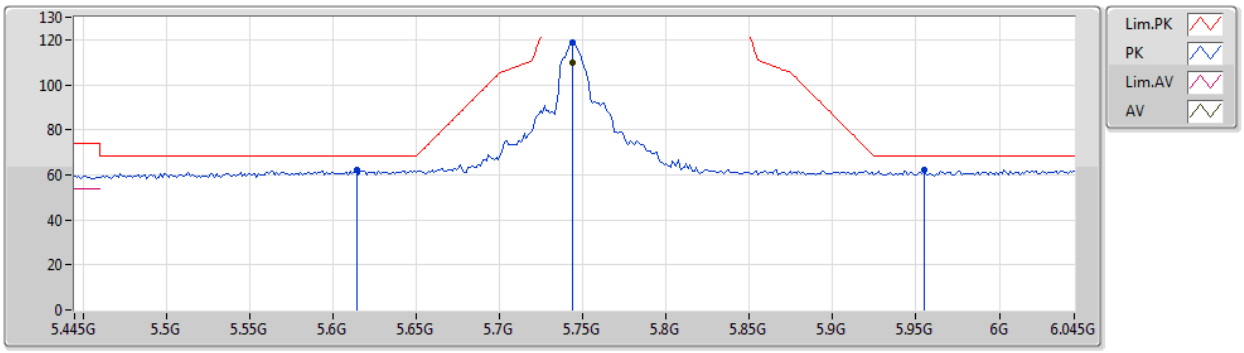


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7462G	107.78	Inf	-Inf	8.77	3	Vertical	201	1.39	-
PK	5.493G	61.78	68.20	-6.42	8.57	3	Vertical	201	1.39	-
PK	5.7462G	115.25	Inf	-Inf	8.77	3	Vertical	201	1.39	-
PK	5.9706G	61.90	68.20	-6.30	9.30	3	Vertical	201	1.39	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5745MHz_TX

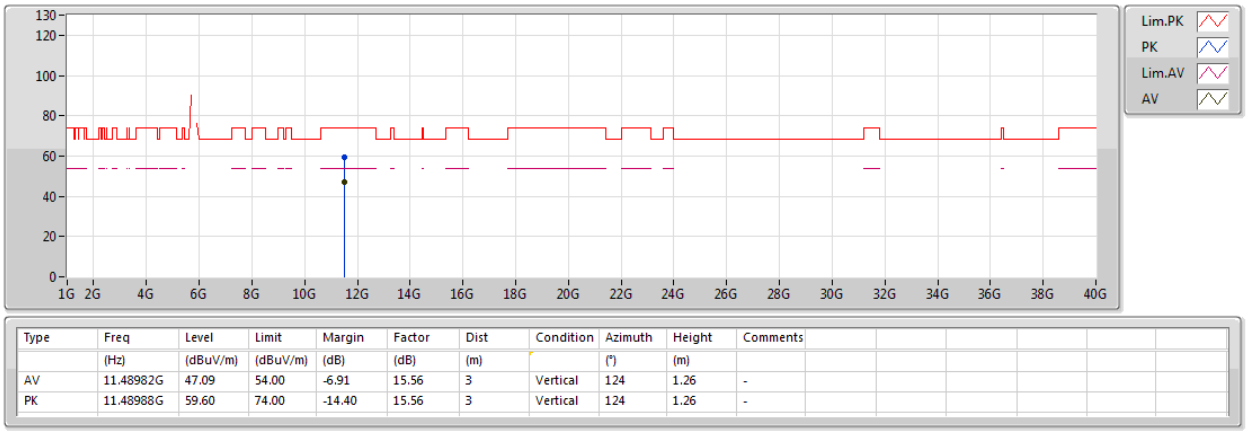


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7438G	109.96	Inf	-Inf	8.76	3	Horizontal	167	1.40	-
PK	5.6142G	62.29	68.20	-5.91	8.50	3	Horizontal	167	1.40	-
PK	5.7438G	118.53	Inf	-Inf	8.76	3	Horizontal	167	1.40	-
PK	5.955G	62.36	68.20	-5.84	9.28	3	Horizontal	167	1.40	-

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TX

22/03/2019

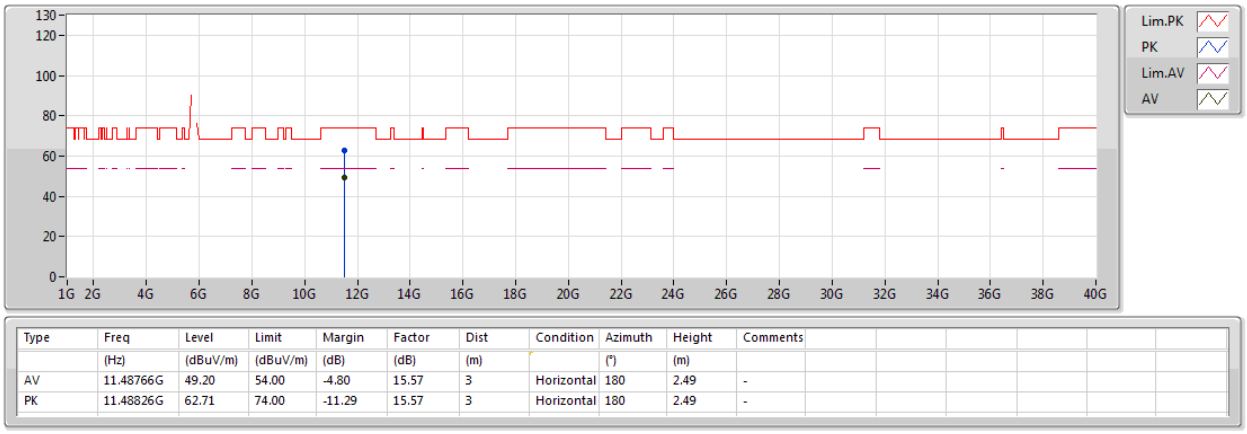


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.48982G	47.09	54.00	-6.91	15.56	3	Vertical	124	1.26	-
PK	11.48988G	59.60	74.00	-14.40	15.56	3	Vertical	124	1.26	-

802.11a_Nss1,(6Mbps)_4TX

5745MHz_TX

22/03/2019

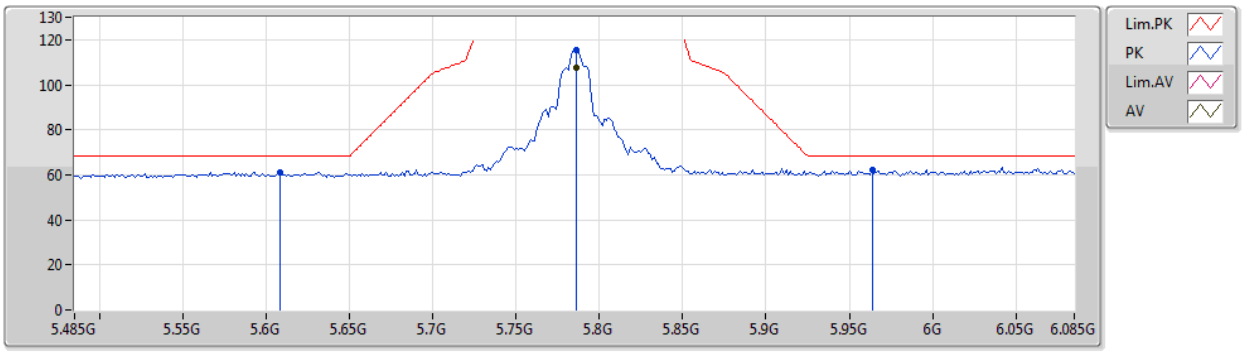


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.48766G	49.20	54.00	-4.80	15.57	3	Horizontal	180	2.49	-
PK	11.48826G	62.71	74.00	-11.29	15.57	3	Horizontal	180	2.49	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5785MHz_TX

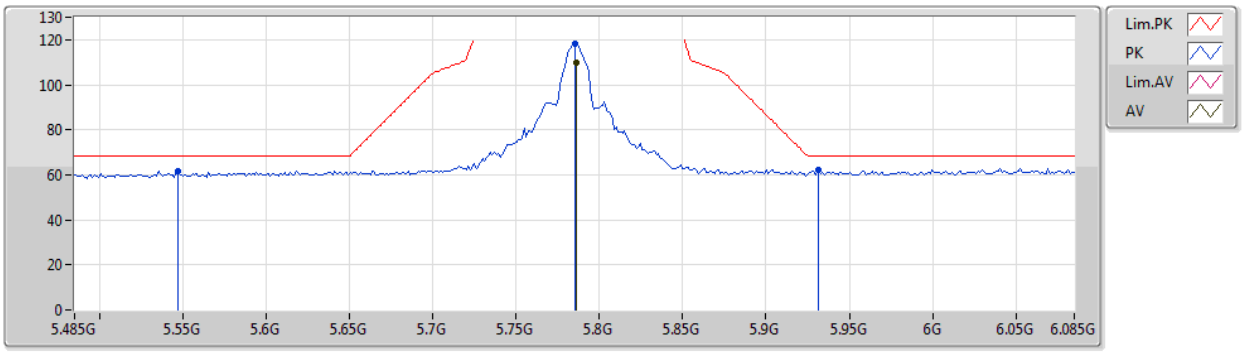


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7862G	107.70	Inf	-Inf	8.88	3	Vertical	201	1.49	-
PK	5.6086G	61.16	68.20	-7.04	8.50	3	Vertical	201	1.49	-
PK	5.7862G	115.17	Inf	-Inf	8.88	3	Vertical	201	1.49	-
PK	5.9638G	62.14	68.20	-6.06	9.28	3	Vertical	201	1.49	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5785MHz_TX

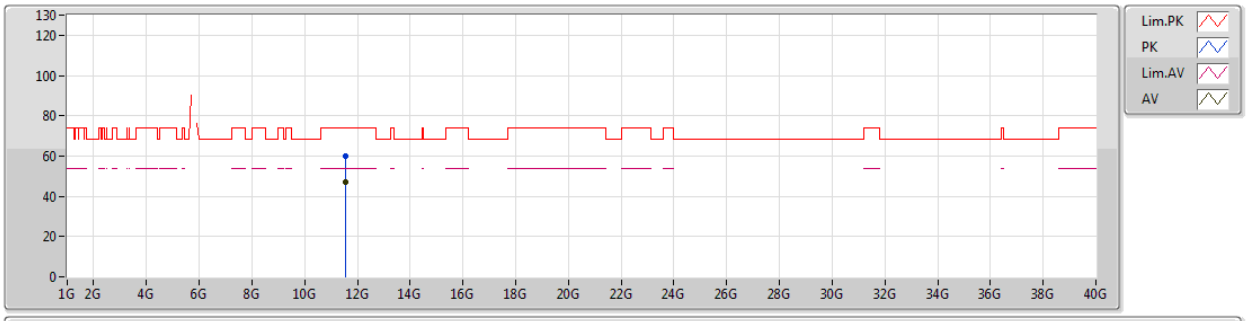


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7862G	109.96	Inf	-Inf	8.88	3	Horizontal	172	1.50	-
PK	5.5474G	61.91	68.20	-6.29	8.56	3	Horizontal	172	1.50	-
PK	5.785G	118.22	Inf	-Inf	8.88	3	Horizontal	172	1.50	-
PK	5.9314G	62.03	68.20	-6.17	9.23	3	Horizontal	172	1.50	-

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TX

22/03/2019

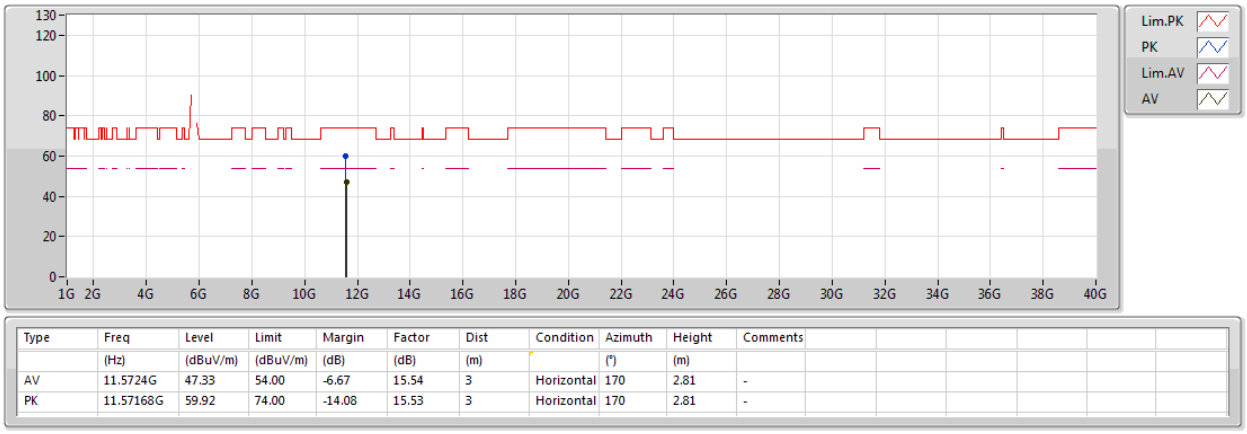


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.57G	47.19	54.00	-6.81	15.53	3	Vertical	121	1.29	-
PK	11.56832G	59.95	74.00	-14.05	15.53	3	Vertical	121	1.29	-

802.11a_Nss1,(6Mbps)_4TX

5785MHz_TX

22/03/2019

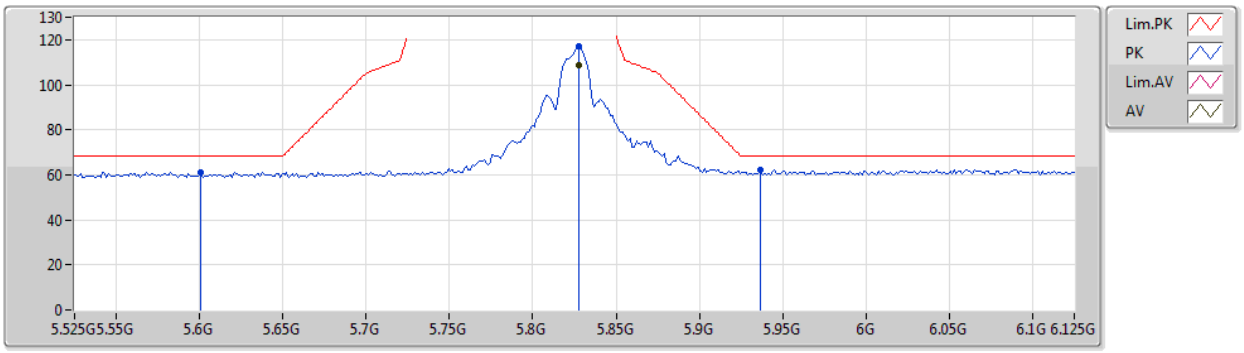


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5724G	47.33	54.00	-6.67	15.54	3	Horizontal	170	2.81	-
PK	11.57168G	59.92	74.00	-14.08	15.53	3	Horizontal	170	2.81	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5825MHz_TX

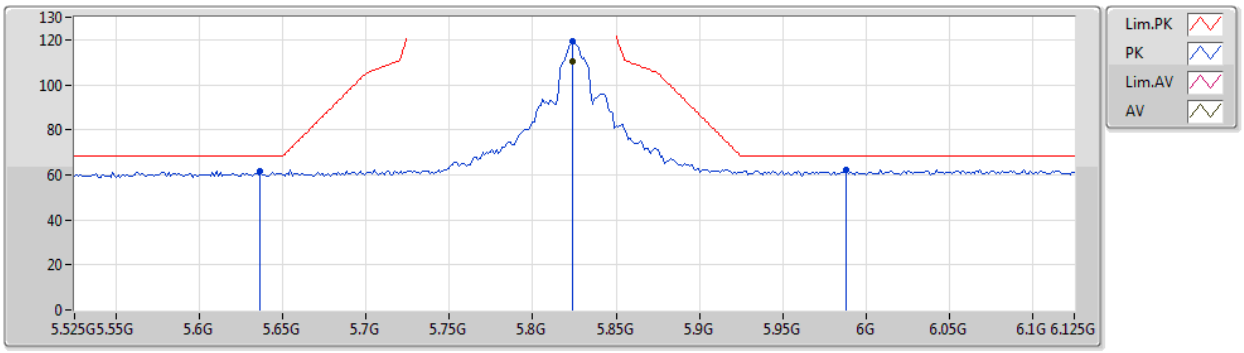


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8274G	108.84	Inf	-Inf	8.98	3	Vertical	136	1.50	-
PK	5.6006G	61.35	68.20	-6.85	8.48	3	Vertical	136	1.50	-
PK	5.8274G	116.86	Inf	-Inf	8.98	3	Vertical	136	1.50	-
PK	5.9366G	61.96	68.20	-6.24	9.25	3	Vertical	136	1.50	-

802.11a_Nss1,(6Mbps)_4TX

22/03/2019

5825MHz_TX

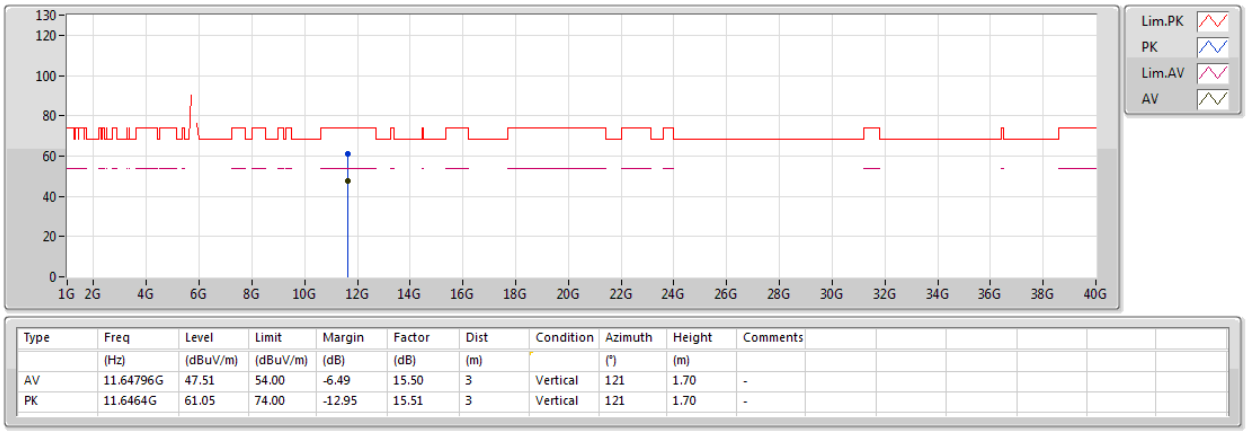


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8238G	110.47	Inf	-Inf	8.97	3	Horizontal	168	1.44	-
PK	5.6366G	61.54	68.20	-6.66	8.55	3	Horizontal	168	1.44	-
PK	5.8238G	119.10	Inf	-Inf	8.97	3	Horizontal	168	1.44	-
PK	5.9882G	61.98	68.20	-6.22	9.33	3	Horizontal	168	1.44	-

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX

22/03/2019

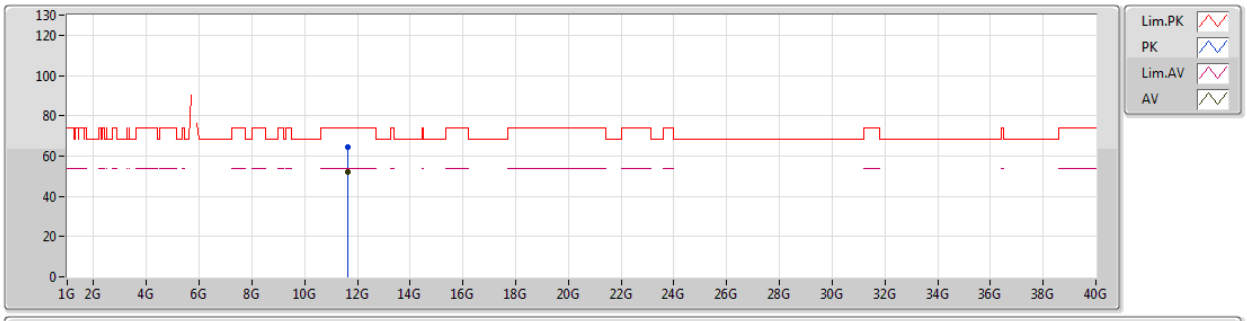


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.64796G	47.51	54.00	-6.49	15.50	3	Vertical	121	1.70	-
PK	11.6464G	61.05	74.00	-12.95	15.51	3	Vertical	121	1.70	-

802.11a_Nss1,(6Mbps)_4TX

5825MHz_TX

22/03/2019

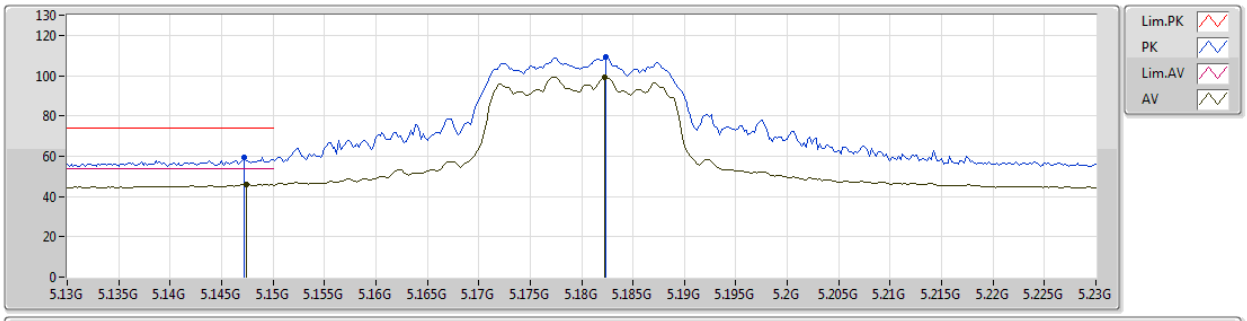


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.65024G	51.90	54.00	-2.10	15.51	3	Horizontal	188	2.57	-
PK	11.65006G	64.26	74.00	-9.74	15.51	3	Horizontal	188	2.57	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

22/03/2019

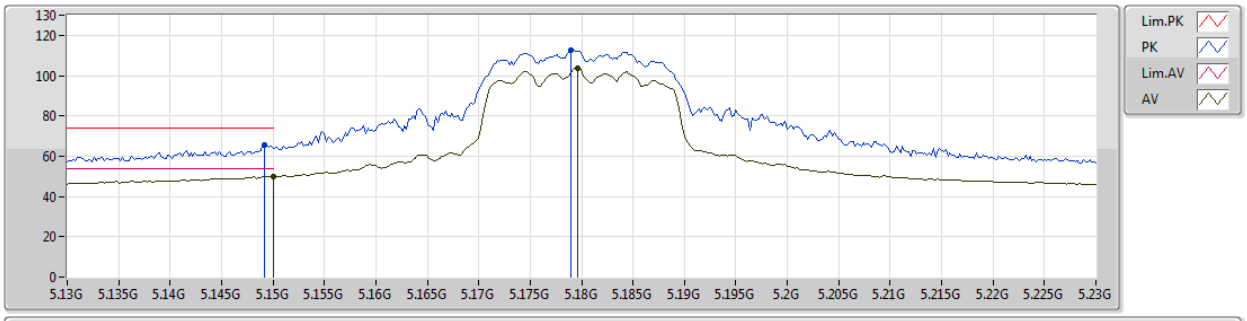


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1474G	45.83	54.00	-8.17	4.09	3	Vertical	283	1.50	-
AV	5.1822G	99.18	Inf	-Inf	4.12	3	Vertical	283	1.50	-
PK	5.1472G	59.34	74.00	-14.66	4.09	3	Vertical	283	1.50	-
PK	5.1824G	109.46	Inf	-Inf	4.12	3	Vertical	283	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

22/03/2019

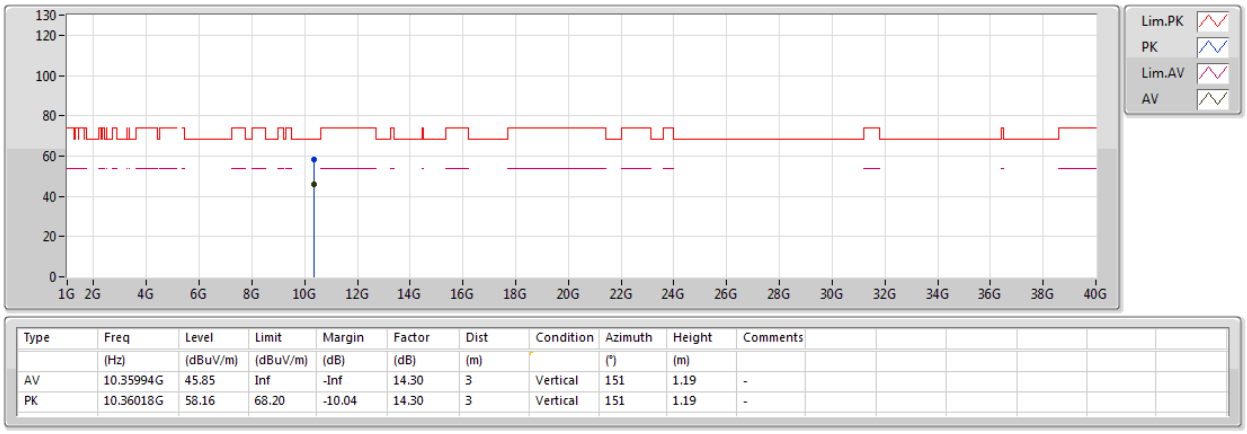


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	49.99	54.00	-4.01	4.09	3	Horizontal	176	2.68	-
AV	5.1796G	103.88	Inf	-Inf	4.12	3	Horizontal	176	2.68	-
PK	5.1492G	65.55	74.00	-8.45	4.09	3	Horizontal	176	2.68	-
PK	5.179G	112.50	Inf	-Inf	4.12	3	Horizontal	176	2.68	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

22/03/2019

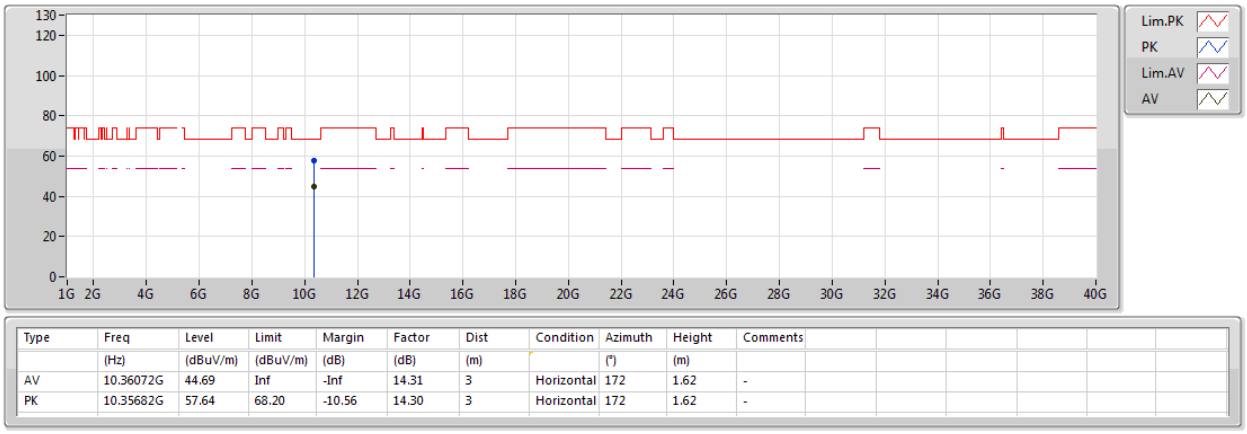


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.35994G	45.85	Inf	-Inf	14.30	3	Vertical	151	1.19	-
PK	10.36018G	58.16	68.20	-10.04	14.30	3	Vertical	151	1.19	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5180MHz_TX

22/03/2019

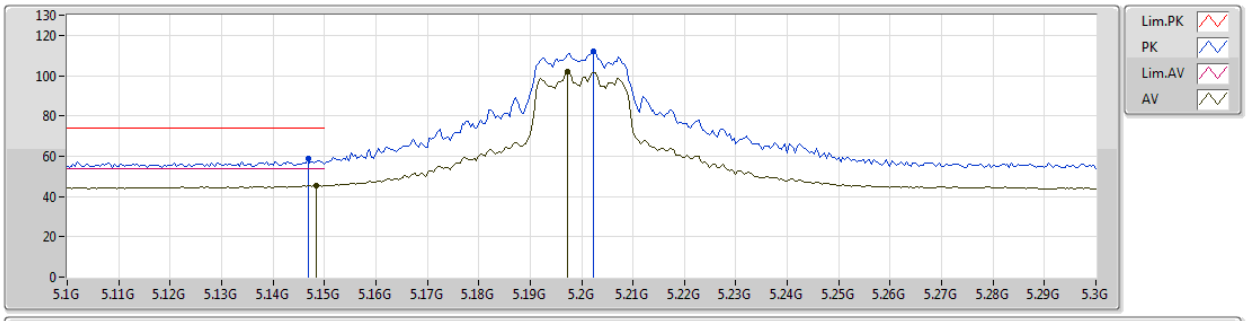


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.36072G	44.69	Inf	-Inf	14.31	3	Horizontal	172	1.62	-
PK	10.35682G	57.64	68.20	-10.56	14.30	3	Horizontal	172	1.62	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

22/03/2019

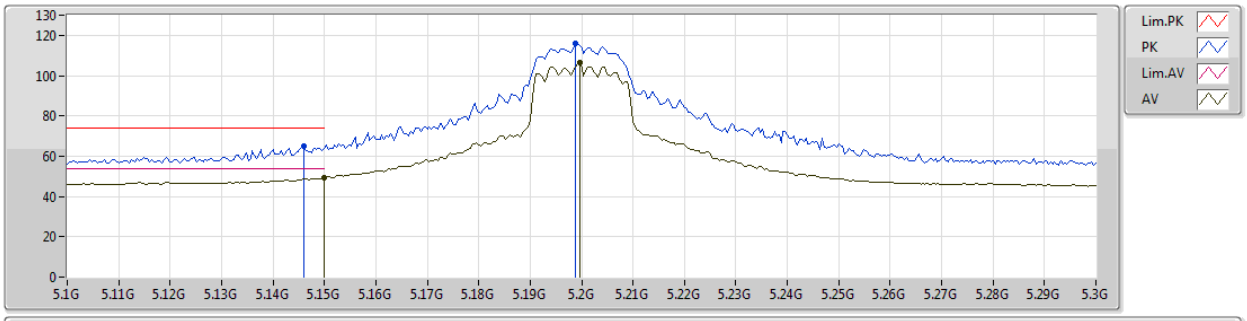


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1484G	45.63	54.00	-8.37	4.09	3	Vertical	283	1.50	-
AV	5.1972G	101.78	Inf	-Inf	4.15	3	Vertical	283	1.50	-
PK	5.1468G	59.10	74.00	-14.90	4.09	3	Vertical	283	1.50	-
PK	5.2024G	112.33	Inf	-Inf	4.15	3	Vertical	283	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

22/03/2019

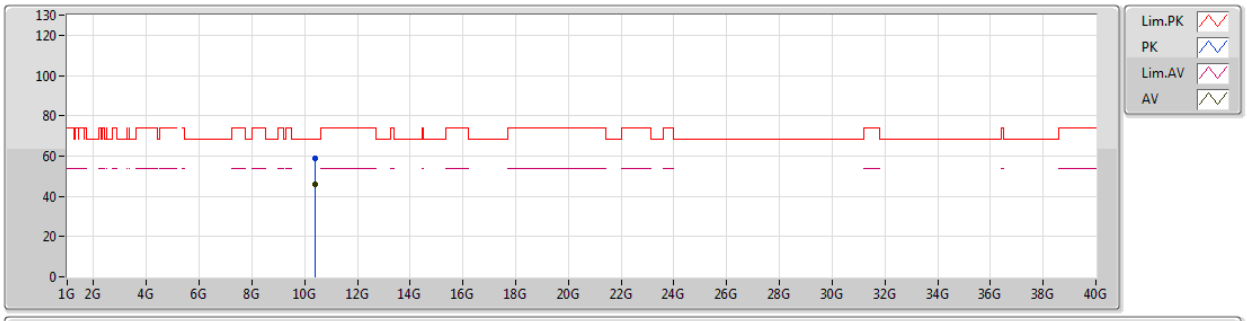


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	49.38	54.00	-4.62	4.09	3	Horizontal	174	1.15	-
AV	5.1996G	106.34	Inf	-Inf	4.15	3	Horizontal	174	1.15	-
PK	5.146G	64.81	74.00	-9.19	4.09	3	Horizontal	174	1.15	-
PK	5.1988G	115.90	Inf	-Inf	4.15	3	Horizontal	174	1.15	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

22/03/2019

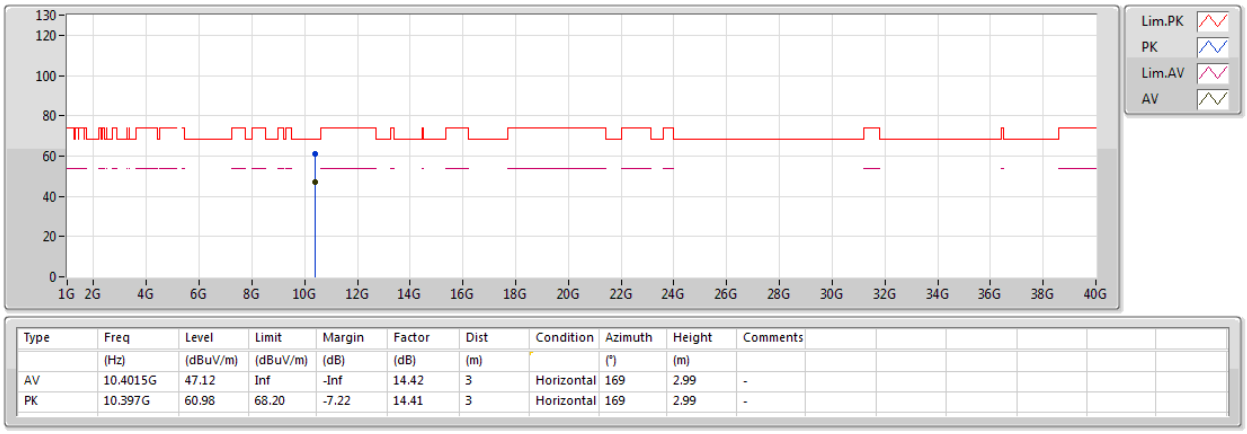


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.40018G	45.81	Inf	-Inf	14.42	3	Vertical	177	1.50	-
PK	10.39814G	58.63	68.20	-9.57	14.41	3	Vertical	177	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5200MHz_TX

22/03/2019

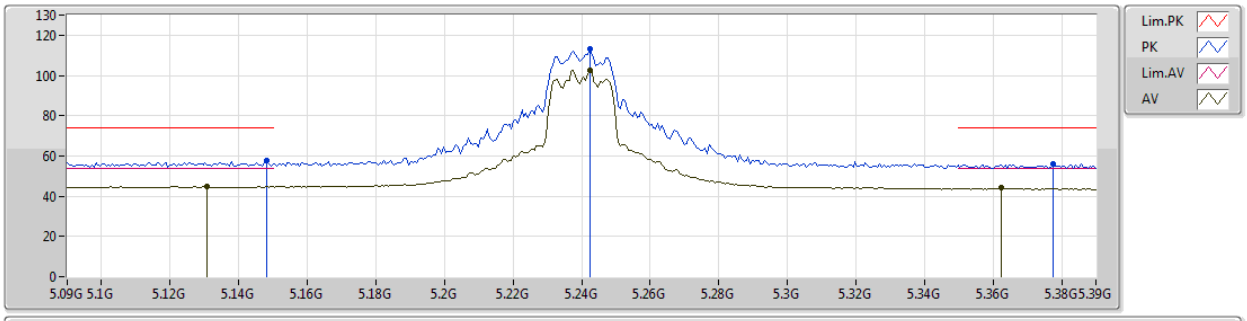


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.4015G	47.12	Inf	-Inf	14.42	3	Horizontal	169	2.99	-
PK	10.397G	60.98	68.20	-7.22	14.41	3	Horizontal	169	2.99	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

22/03/2019

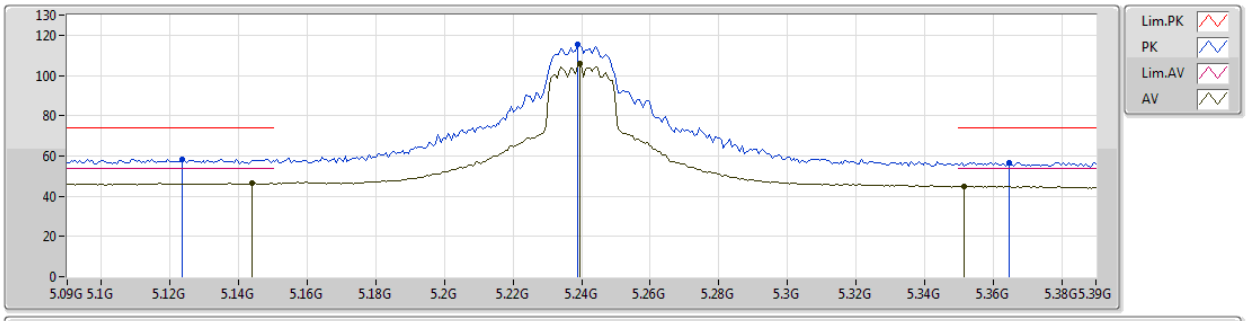


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1308G	44.73	54.00	-9.27	4.07	3	Vertical	279	1.58	-
AV	5.2424G	102.52	Inf	-Inf	4.20	3	Vertical	279	1.58	-
AV	5.3624G	44.02	54.00	-9.98	4.34	3	Vertical	279	1.58	-
PK	5.1482G	57.63	74.00	-16.37	4.09	3	Vertical	279	1.58	-
PK	5.2424G	112.92	Inf	-Inf	4.20	3	Vertical	279	1.58	-
PK	5.3774G	56.27	74.00	-17.73	4.36	3	Vertical	279	1.58	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

22/03/2019

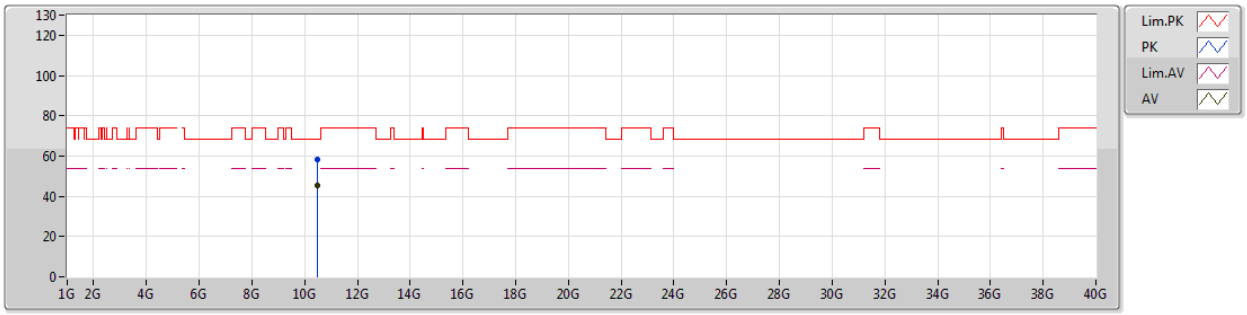


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.144G	46.37	54.00	-7.63	4.09	3	Horizontal	170	1.16	-
AV	5.2394G	106.02	Inf	-Inf	4.19	3	Horizontal	170	1.16	-
AV	5.3516G	45.03	54.00	-8.97	4.32	3	Horizontal	170	1.16	-
PK	5.1236G	58.48	74.00	-15.52	4.05	3	Horizontal	170	1.16	-
PK	5.2388G	115.52	Inf	-Inf	4.19	3	Horizontal	170	1.16	-
PK	5.3648G	56.87	74.00	-17.13	4.34	3	Horizontal	170	1.16	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

22/03/2019

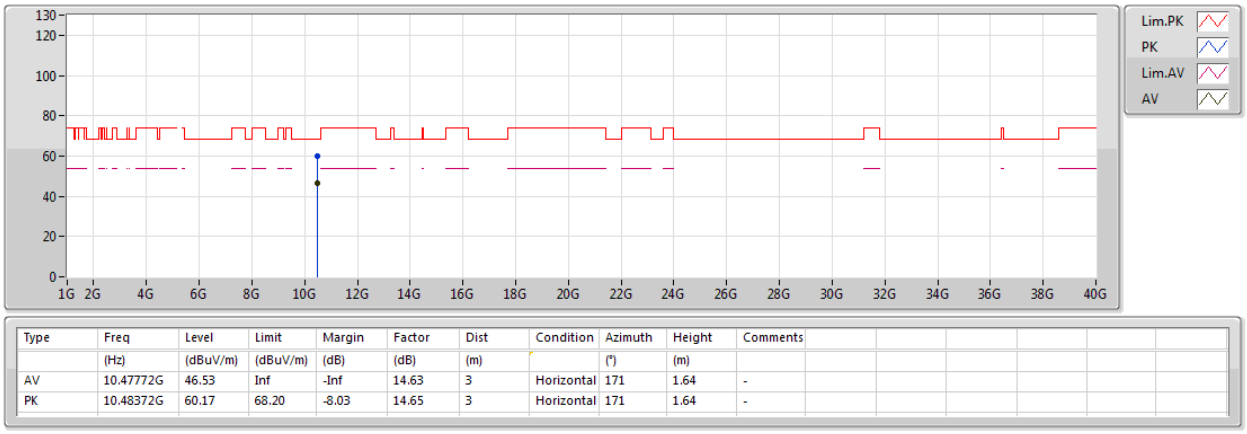


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.4797G	45.54	Inf	-Inf	14.64	3	Vertical	149	1.21	-
PK	10.48456G	58.42	68.20	-9.78	14.65	3	Vertical	149	1.21	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5240MHz_TX

22/03/2019

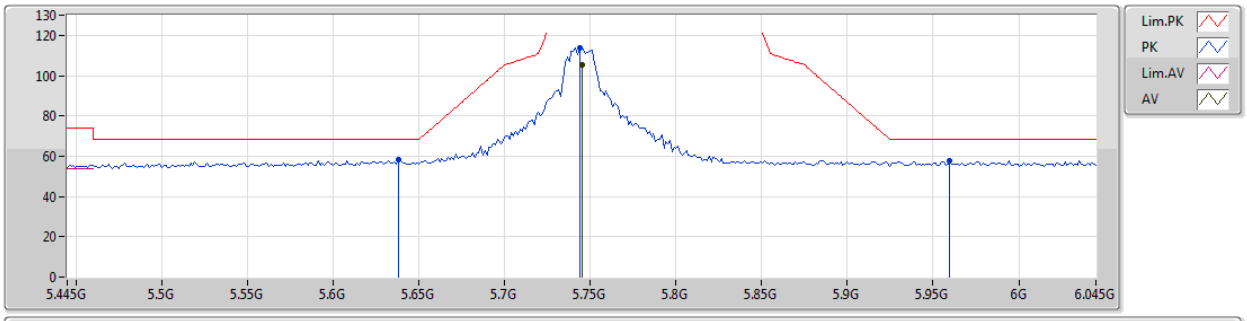


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.47772G	46.53	Inf	-Inf	14.63	3	Horizontal	171	1.64	-
PK	10.48372G	60.17	68.20	-8.03	14.65	3	Horizontal	171	1.64	-

802.11ac VHT20_Nss1,(MCS0)_4TX

22/03/2019

5745MHz_TX

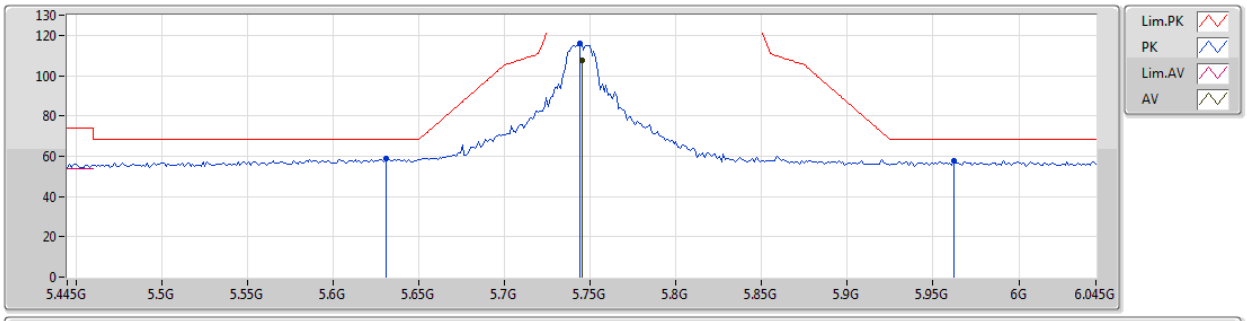


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.745G	105.34	Inf	-Inf	5.00	3	Vertical	192	1.13	-
PK	5.6382G	58.01	68.20	-10.19	4.79	3	Vertical	192	1.13	-
PK	5.7438G	113.74	Inf	-Inf	5.00	3	Vertical	192	1.13	-
PK	5.9598G	57.45	68.20	-10.75	5.43	3	Vertical	192	1.13	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_TX

22/03/2019

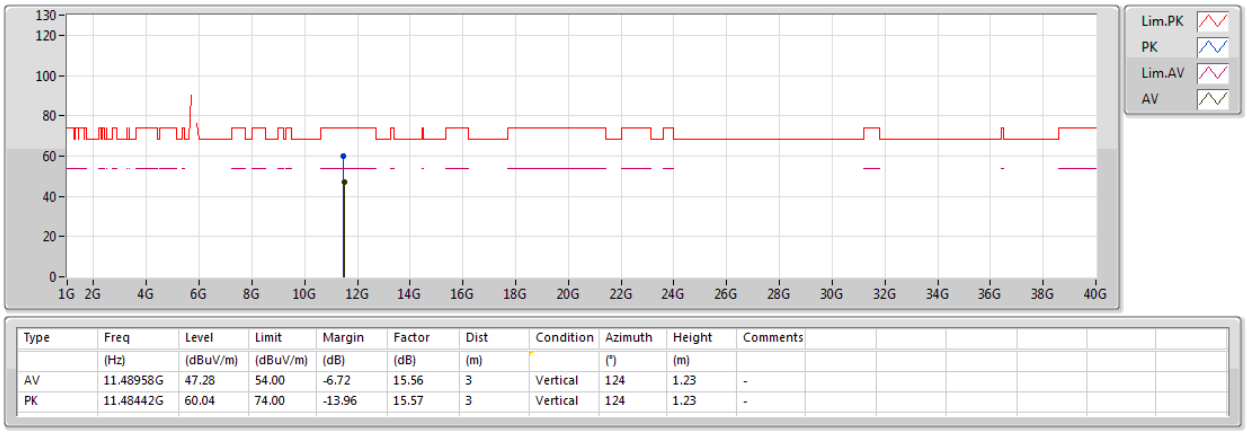


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.745G	107.45	Inf	-Inf	5.00	3	Horizontal	172	1.46	-
PK	5.631G	58.69	68.20	-9.51	4.77	3	Horizontal	172	1.46	-
PK	5.7438G	116.22	Inf	-Inf	5.00	3	Horizontal	172	1.46	-
PK	5.9622G	57.78	68.20	-10.42	5.44	3	Horizontal	172	1.46	-

802.11ac VHT20_Nss1,(MCS0)_4TX

22/03/2019

5745MHz_TX

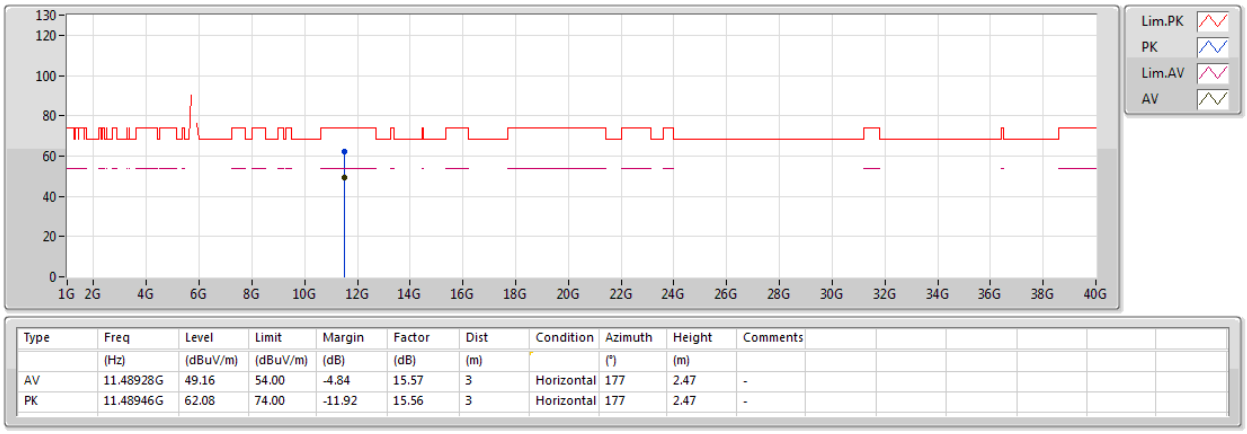


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.48958G	47.28	54.00	-6.72	15.56	3	Vertical	124	1.23	-
PK	11.48442G	60.04	74.00	-13.96	15.57	3	Vertical	124	1.23	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5745MHz_TX

22/03/2019

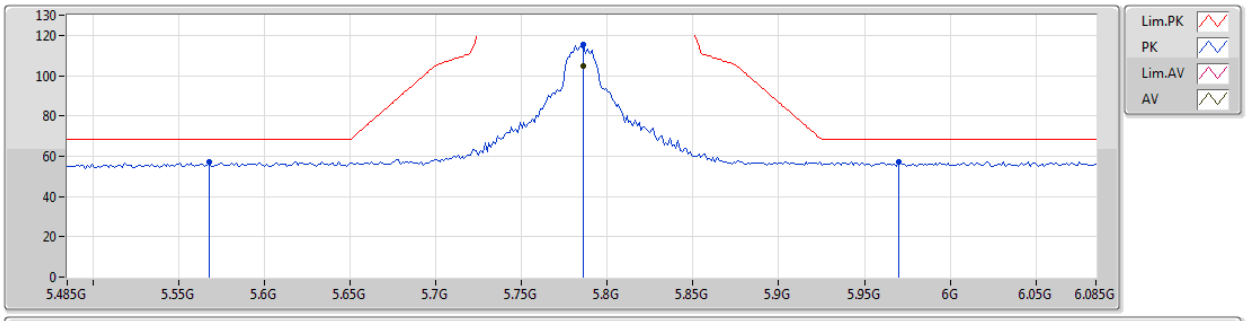


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.48928G	49.16	54.00	-4.84	15.57	3	Horizontal	177	2.47	-
PK	11.48946G	62.08	74.00	-11.92	15.56	3	Horizontal	177	2.47	-

802.11ac VHT20_Nss1,(MCS0)_4TX

22/03/2019

5785MHz_TX

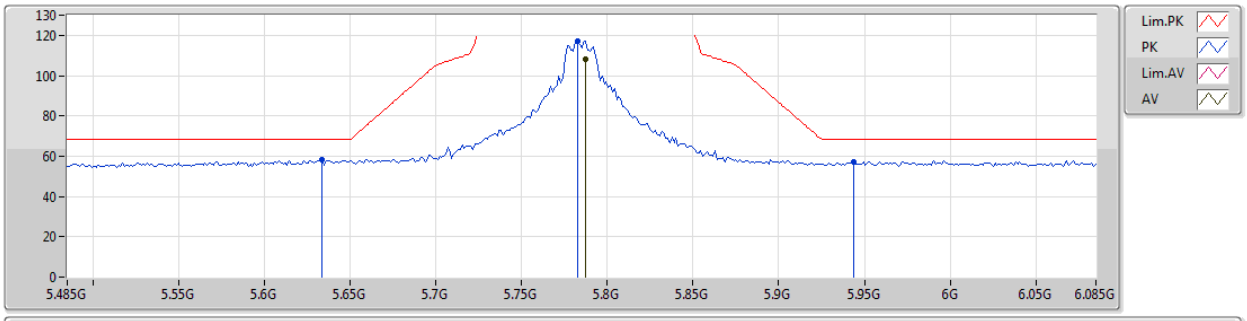


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7862G	104.87	Inf	-Inf	5.08	3	Vertical	180	1.28	-
PK	5.5678G	57.32	68.20	-10.88	4.63	3	Vertical	180	1.28	-
PK	5.7862G	115.16	Inf	-Inf	5.08	3	Vertical	180	1.28	-
PK	5.9698G	57.25	68.20	-10.95	5.46	3	Vertical	180	1.28	-

802.11ac VHT20_Nss1,(MCS0)_4TX

22/03/2019

5785MHz_TX

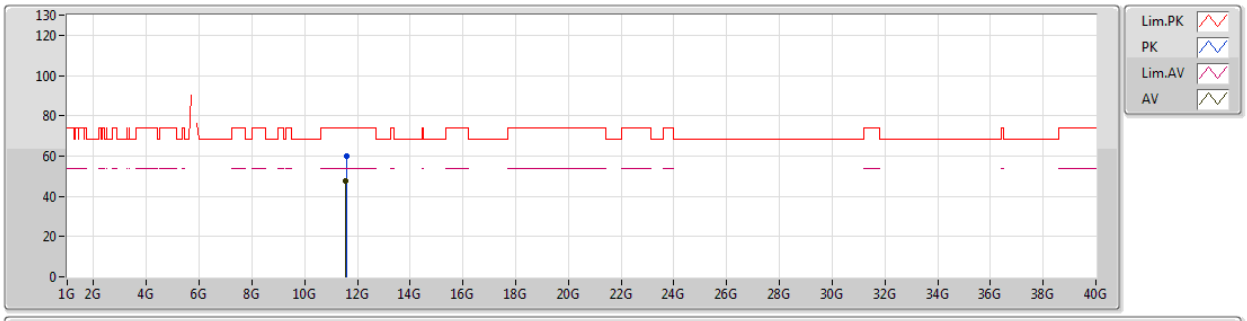


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7874G	108.31	Inf	-Inf	5.08	3	Horizontal	168	2.53	-
PK	5.6338G	58.52	68.20	-9.68	4.78	3	Horizontal	168	2.53	-
PK	5.7826G	117.36	Inf	-Inf	5.07	3	Horizontal	168	2.53	-
PK	5.9434G	57.23	68.20	-10.97	5.41	3	Horizontal	168	2.53	-

802.11ac VHT20_Nss1,(MCS0)_4TX

22/03/2019

5785MHz_TX

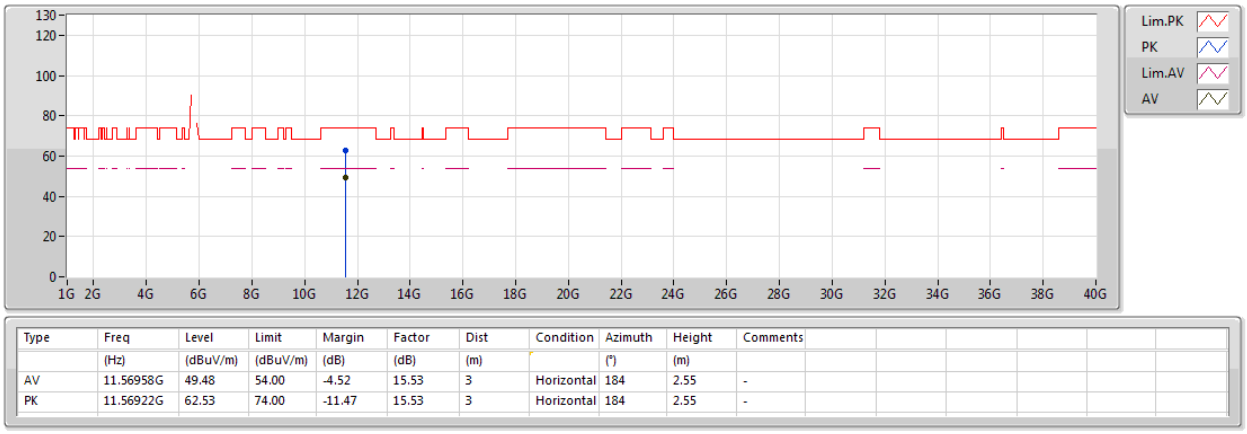


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5697G	47.38	54.00	-6.62	15.53	3	Vertical	142	2.91	-
PK	11.5748G	60.01	74.00	-13.99	15.54	3	Vertical	142	2.91	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5785MHz_TX

22/03/2019

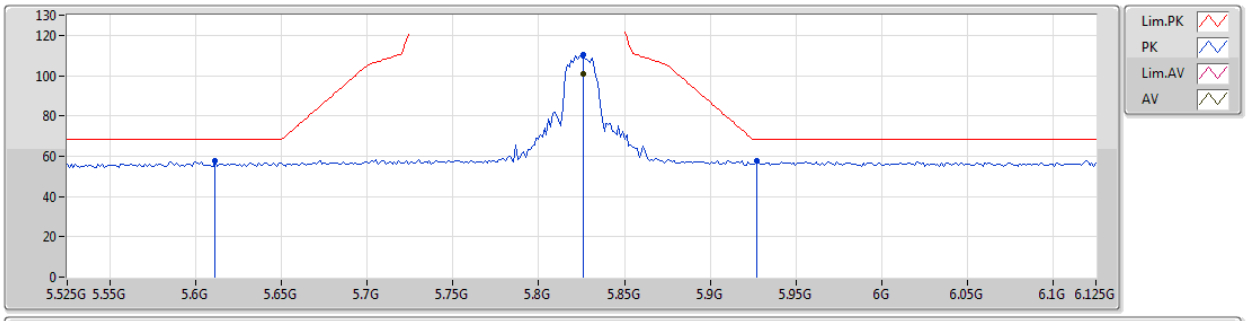


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.56958G	49.48	54.00	-4.52	15.53	3	Horizontal	184	2.55	-
PK	11.56922G	62.53	74.00	-11.47	15.53	3	Horizontal	184	2.55	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_TX

22/03/2019

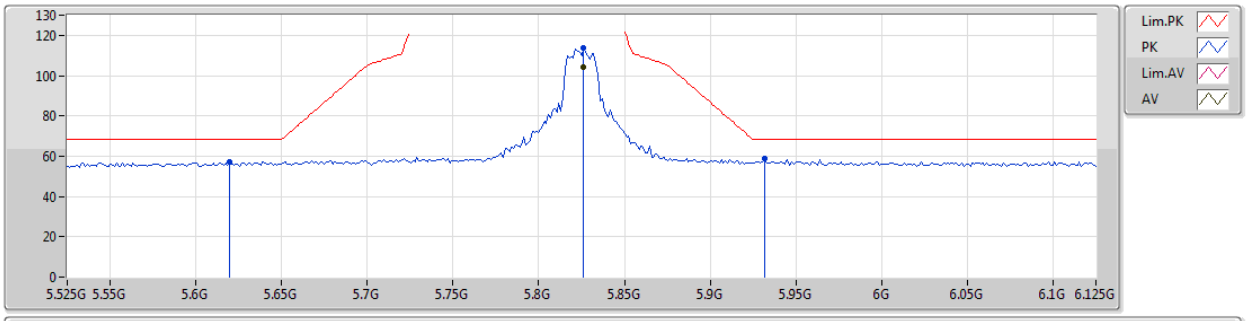


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8262G	100.74	Inf	-Inf	5.17	3	Vertical	182	1.43	-
PK	5.6114G	57.85	68.20	-10.35	4.73	3	Vertical	182	1.43	-
PK	5.8262G	110.48	Inf	-Inf	5.17	3	Vertical	182	1.43	-
PK	5.927G	57.66	68.20	-10.54	5.37	3	Vertical	182	1.43	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_TX

22/03/2019

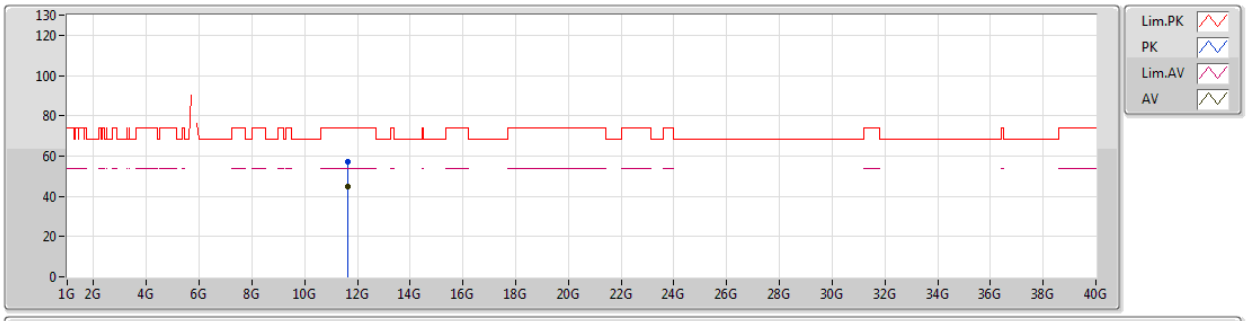


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.8262G	103.98	Inf	-Inf	5.17	3	Horizontal	171	2.47	-
PK	5.6198G	57.26	68.20	-10.94	4.75	3	Horizontal	171	2.47	-
PK	5.8262G	113.58	Inf	-Inf	5.17	3	Horizontal	171	2.47	-
PK	5.9318G	58.82	68.20	-9.38	5.38	3	Horizontal	171	2.47	-

802.11ac VHT20_Nss1,(MCS0)_4TX

22/03/2019

5825MHz_TX

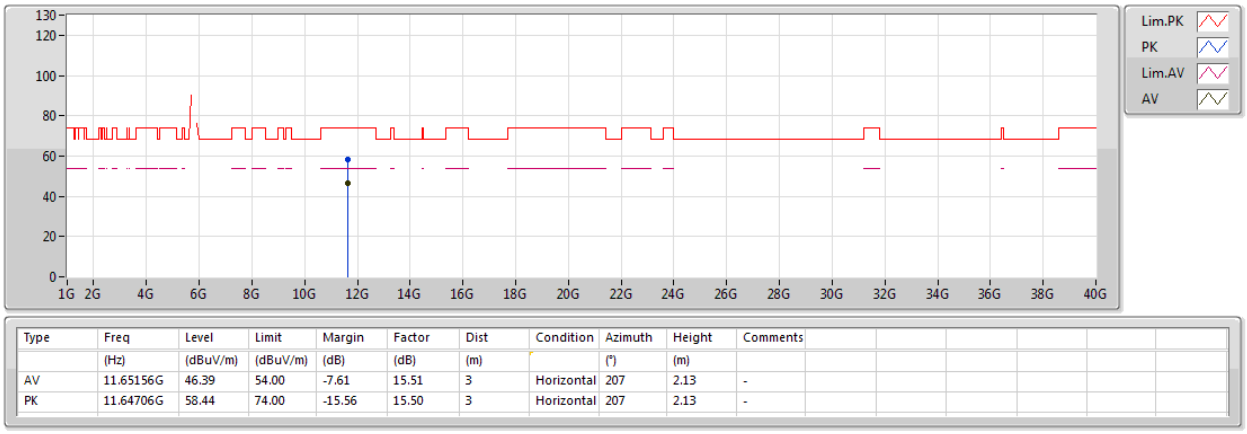


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.64664G	45.00	54.00	-9.00	15.50	3	Vertical	173	1.38	-
PK	11.65612G	57.36	74.00	-16.64	15.50	3	Vertical	173	1.38	-

802.11ac VHT20_Nss1,(MCS0)_4TX

5825MHz_TX

22/03/2019

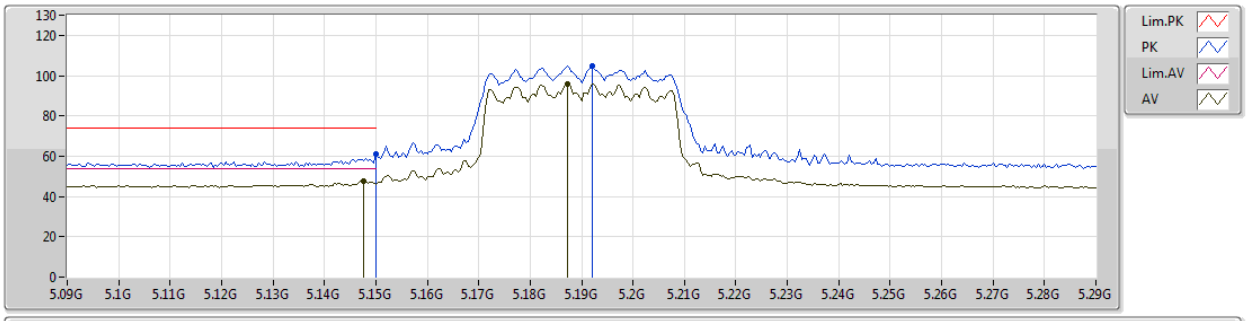


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.65156G	46.39	54.00	-7.61	15.51	3	Horizontal	207	2.13	-
PK	11.64706G	58.44	74.00	-15.56	15.50	3	Horizontal	207	2.13	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

22/03/2019

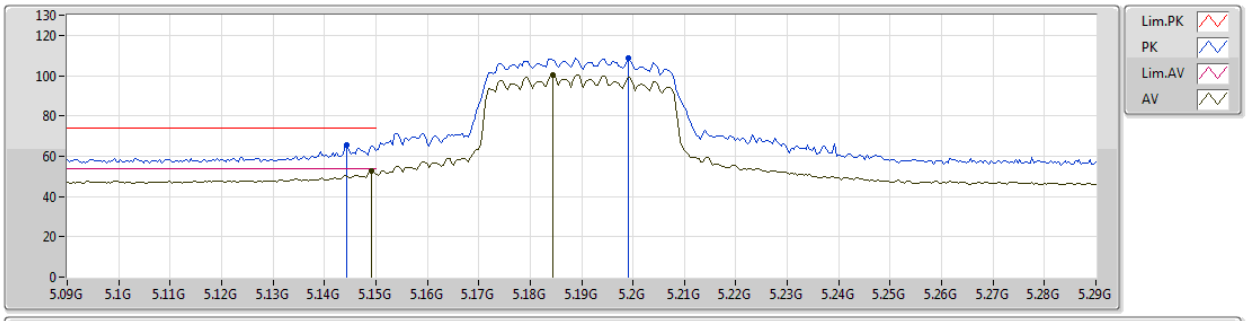


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1476G	47.76	54.00	-6.24	4.09	3	Vertical	282	1.58	-
AV	5.1872G	95.95	Inf	-Inf	4.13	3	Vertical	282	1.58	-
PK	5.15G	60.81	74.00	-13.19	4.09	3	Vertical	282	1.58	-
PK	5.192G	104.66	Inf	-Inf	4.14	3	Vertical	282	1.58	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

22/03/2019

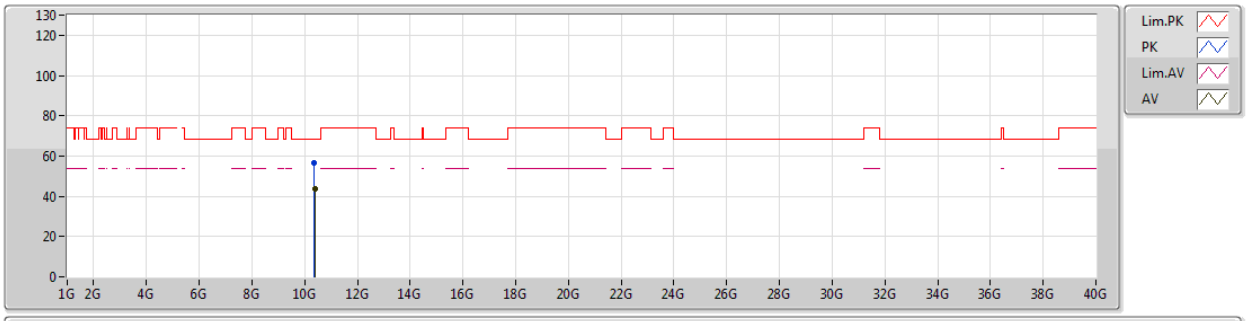


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.1492G	52.57	54.00	-1.43	4.09	3	Horizontal	167	1.05	-
AV	5.1844G	100.41	Inf	-Inf	4.13	3	Horizontal	167	1.05	-
PK	5.1444G	65.75	74.00	-8.25	4.09	3	Horizontal	167	1.05	-
PK	5.1992G	108.58	Inf	-Inf	4.15	3	Horizontal	167	1.05	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

22/03/2019

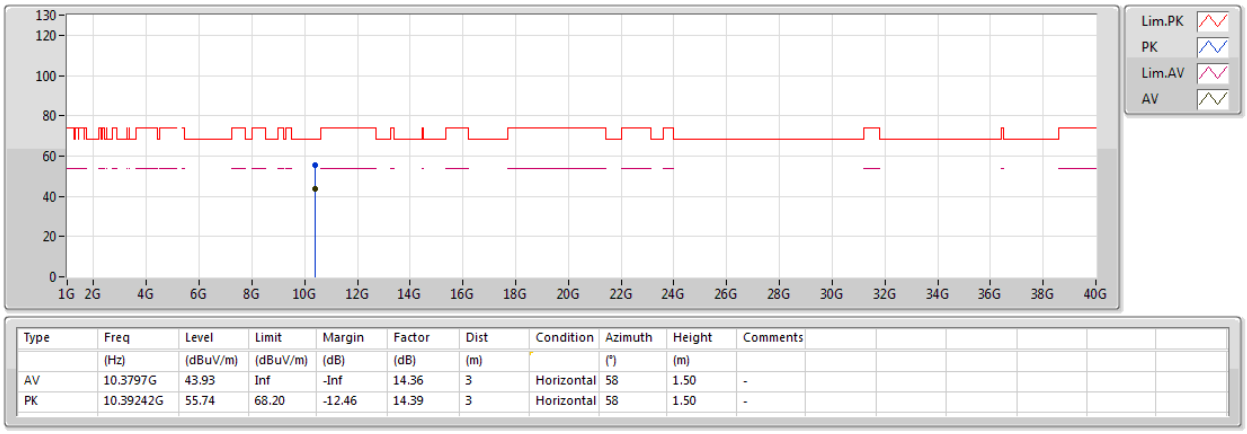


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.38154G	43.75	Inf	-Inf	14.36	3	Vertical	60	1.50	-
PK	10.37528G	56.51	68.20	-11.69	14.35	3	Vertical	60	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5190MHz_TX

22/03/2019

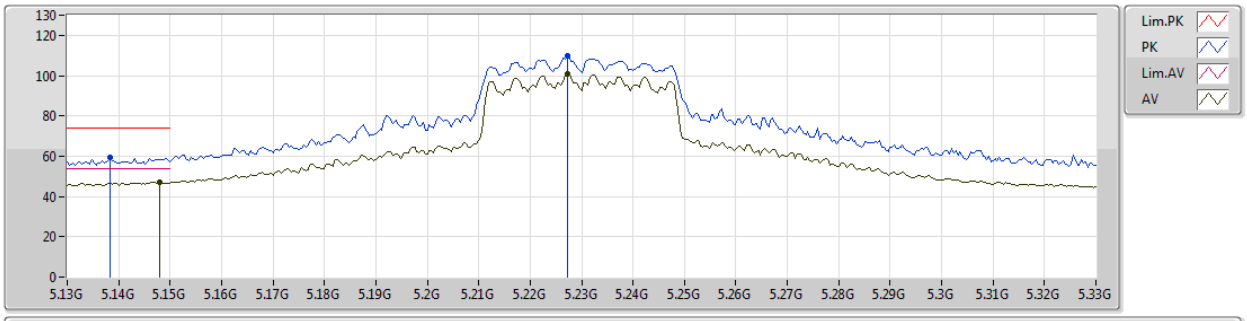


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.3797G	43.93	Inf	-Inf	14.36	3	Horizontal	58	1.50	-
PK	10.39242G	55.74	68.20	-12.46	14.39	3	Horizontal	58	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

22/03/2019

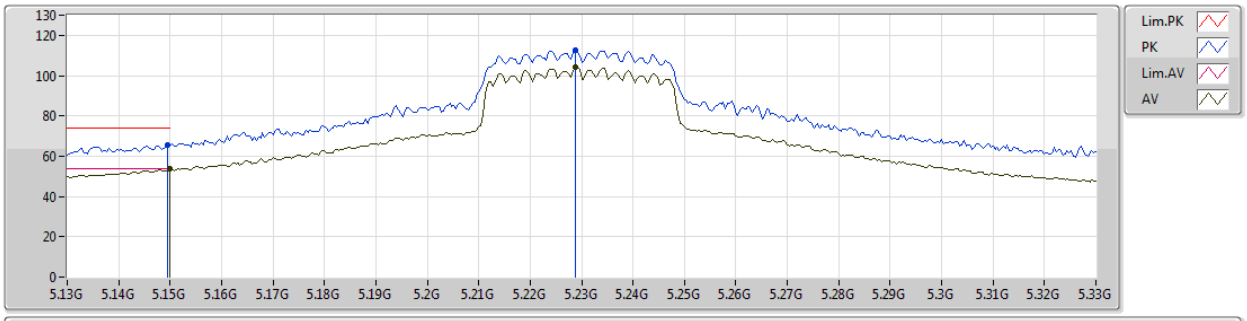


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.148G	46.94	54.00	-7.06	4.09	3	Vertical	280	1.75	-
AV	5.2272G	100.71	Inf	-Inf	4.18	3	Vertical	280	1.75	-
PK	5.1384G	59.49	74.00	-14.51	4.07	3	Vertical	280	1.75	-
PK	5.2272G	109.61	Inf	-Inf	4.18	3	Vertical	280	1.75	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

22/03/2019

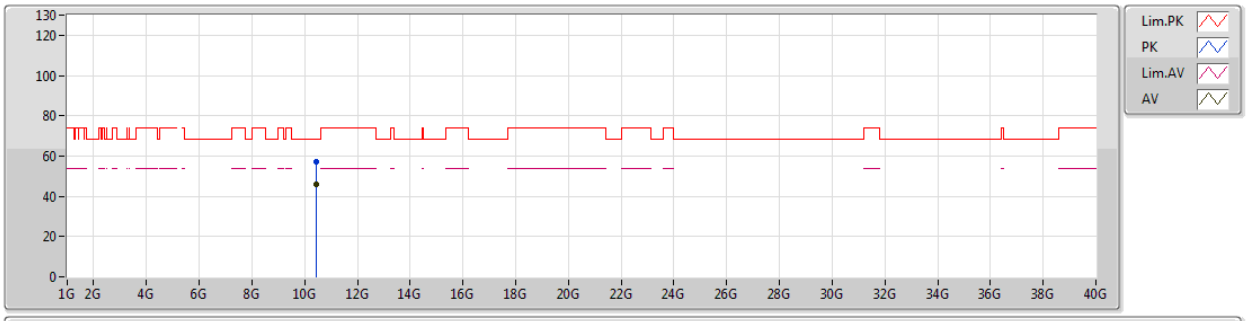


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.15G	53.86	54.00	-0.14	4.09	3	Horizontal	166	1.01	-
AV	5.2288G	104.21	Inf	-Inf	4.18	3	Horizontal	166	1.01	-
PK	5.1496G	65.59	74.00	-8.41	4.09	3	Horizontal	166	1.01	-
PK	5.2288G	112.49	Inf	-Inf	4.18	3	Horizontal	166	1.01	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

22/03/2019

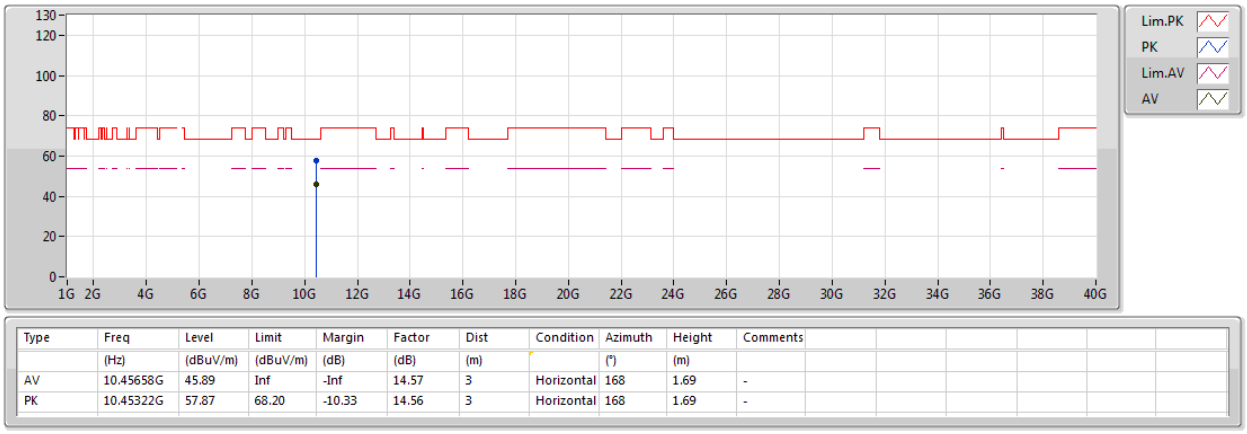


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.45574G	45.69	Inf	-Inf	14.57	3	Vertical	143	1.11	-
PK	10.4504G	57.03	68.20	-11.17	14.56	3	Vertical	143	1.11	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5230MHz_TX

22/03/2019

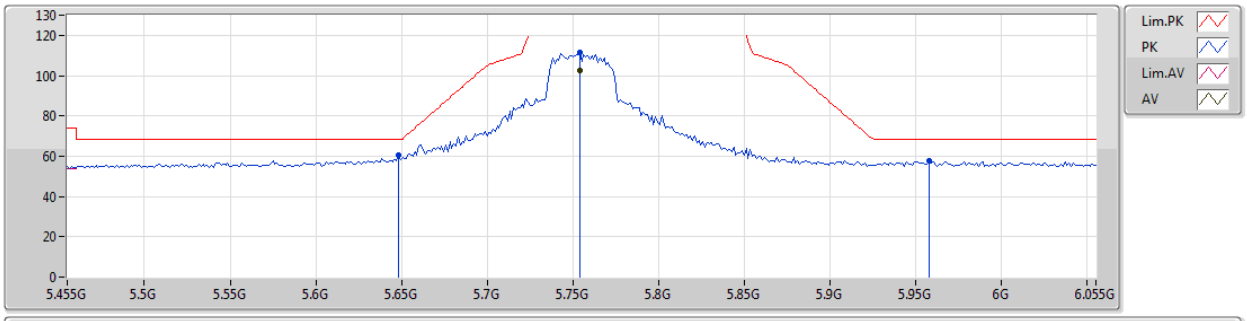


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.45658G	45.89	Inf	-Inf	14.57	3	Horizontal	168	1.69	-
PK	10.45322G	57.87	68.20	-10.33	14.56	3	Horizontal	168	1.69	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_TX

22/03/2019

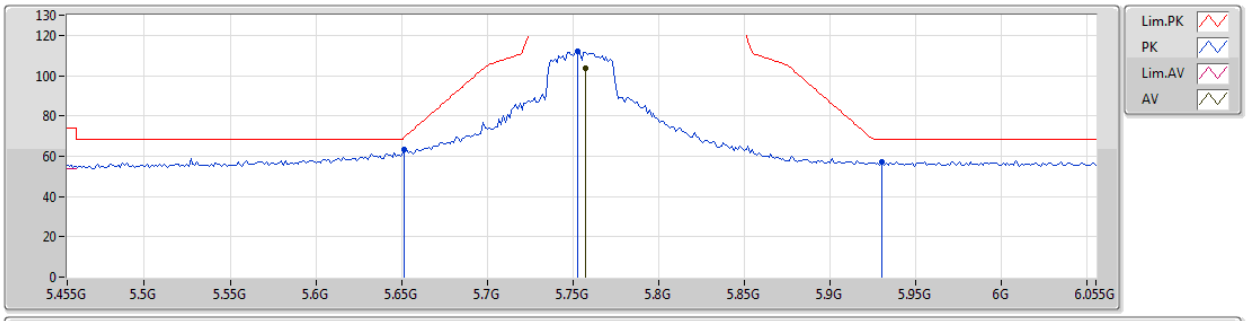


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7538G	102.28	Inf	-Inf	5.02	3	Vertical	174	1.95	-
PK	5.6482G	60.60	68.20	-7.60	4.81	3	Vertical	174	1.95	-
PK	5.7538G	111.70	Inf	-Inf	5.02	3	Vertical	174	1.95	-
PK	5.9578G	57.88	68.20	-10.32	5.43	3	Vertical	174	1.95	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_TX

22/03/2019

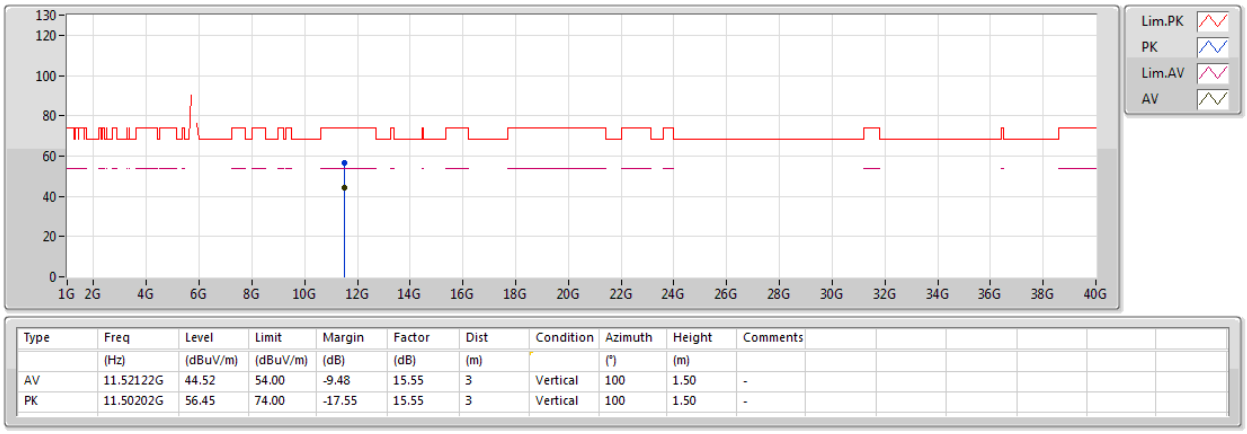


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7574G	103.67	Inf	-Inf	5.03	3	Horizontal	191	1.50	-
PK	5.6518G	63.57	69.53	-5.96	4.81	3	Horizontal	191	1.50	-
PK	5.7526G	112.11	Inf	-Inf	5.01	3	Horizontal	191	1.50	-
PK	5.9302G	57.39	68.20	-10.81	5.38	3	Horizontal	191	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5755MHz_TX

22/03/2019

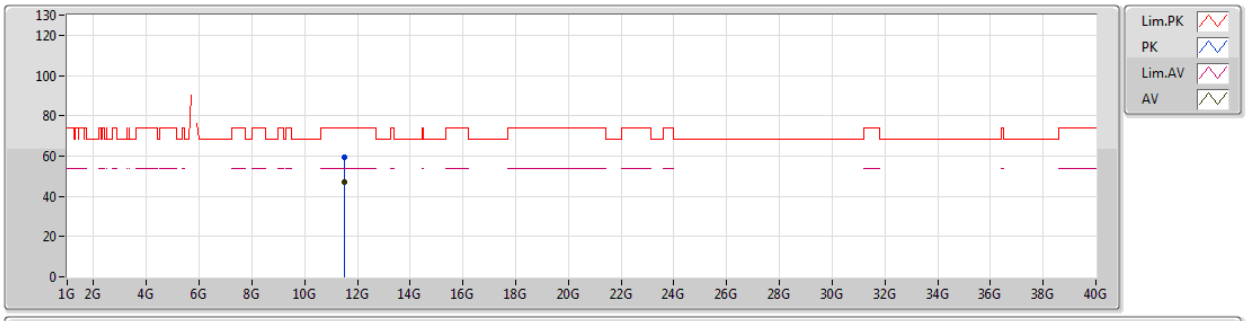


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.52122G	44.52	54.00	-9.48	15.55	3	Vertical	100	1.50	-
PK	11.50202G	56.45	74.00	-17.55	15.55	3	Vertical	100	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

22/03/2019

5755MHz_TX

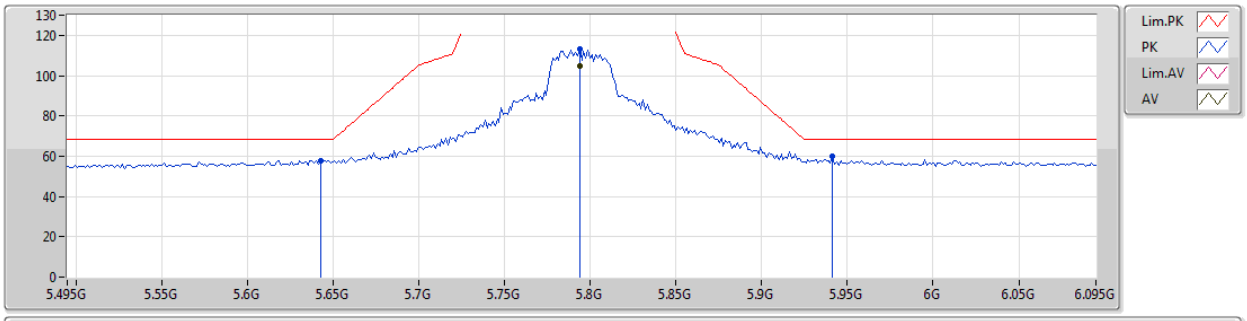


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.50958G	46.91	54.00	-7.09	15.55	3	Horizontal	190	2.61	-
PK	11.5088G	59.24	74.00	-14.76	15.55	3	Horizontal	190	2.61	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_TX

22/03/2019

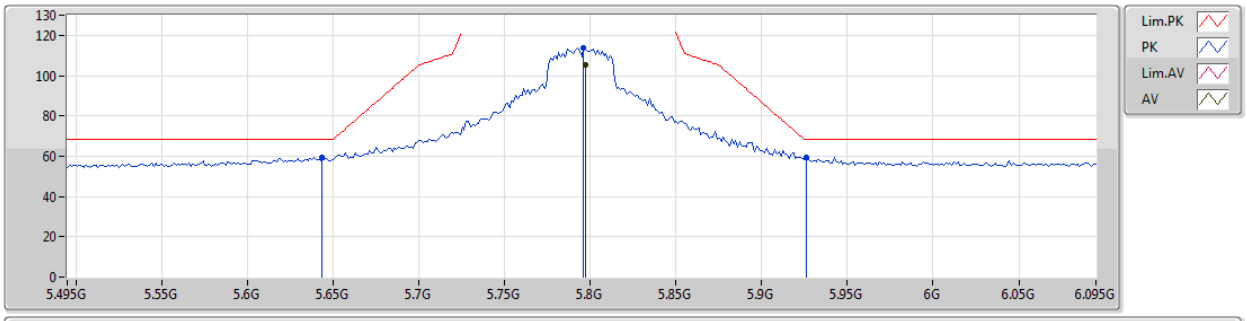


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7938G	104.51	Inf	-Inf	5.09	3	Vertical	177	2.05	-
PK	5.6426G	57.84	68.20	-10.36	4.80	3	Vertical	177	2.05	-
PK	5.7938G	113.38	Inf	-Inf	5.09	3	Vertical	177	2.05	-
PK	5.9414G	60.17	68.20	-8.03	5.41	3	Vertical	177	2.05	-

802.11ac VHT40_Nss1,(MCS0)_4TX

5795MHz_TX

22/03/2019

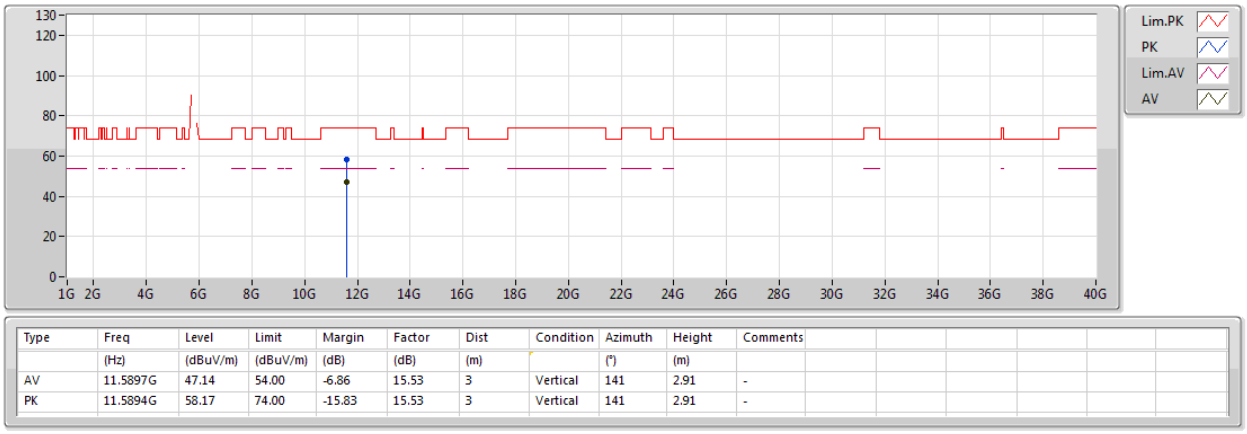


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7974G	105.20	Inf	-Inf	5.11	3	Horizontal	195	1.50	-
PK	5.6438G	59.25	68.20	-8.95	4.80	3	Horizontal	195	1.50	-
PK	5.7962G	113.90	Inf	-Inf	5.10	3	Horizontal	195	1.50	-
PK	5.9258G	59.59	68.20	-8.61	5.37	3	Horizontal	195	1.50	-

802.11ac VHT40_Nss1,(MCS0)_4TX

22/03/2019

5795MHz_TX

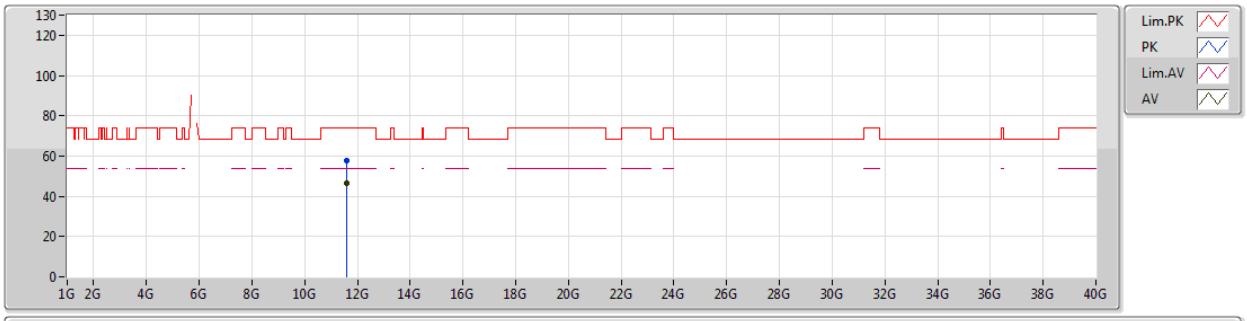


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.5897G	47.14	54.00	-6.86	15.53	3	Vertical	141	2.91	-
PK	11.5894G	58.17	74.00	-15.83	15.53	3	Vertical	141	2.91	-

802.11ac VHT40_Nss1,(MCS0)_4TX

22/03/2019

5795MHz_TX

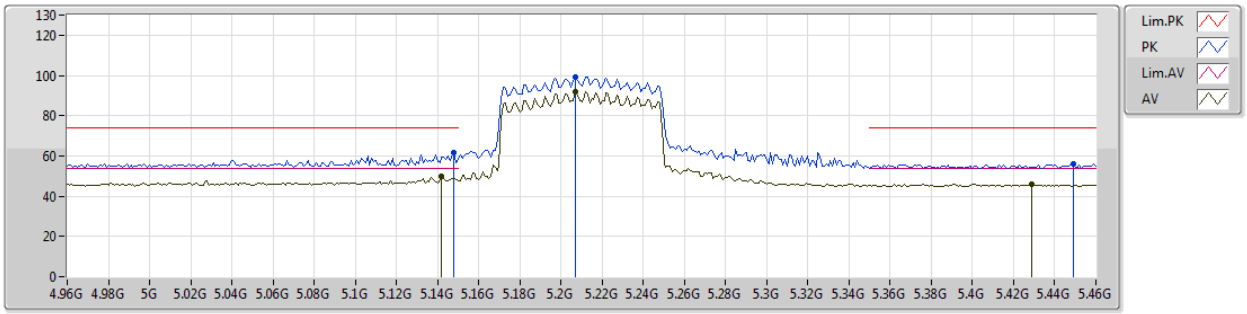


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.58982G	46.39	54.00	-7.61	15.53	3	Horizontal	21	1.70	-
PK	11.57938G	57.71	74.00	-16.29	15.53	3	Horizontal	21	1.70	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

22/03/2019

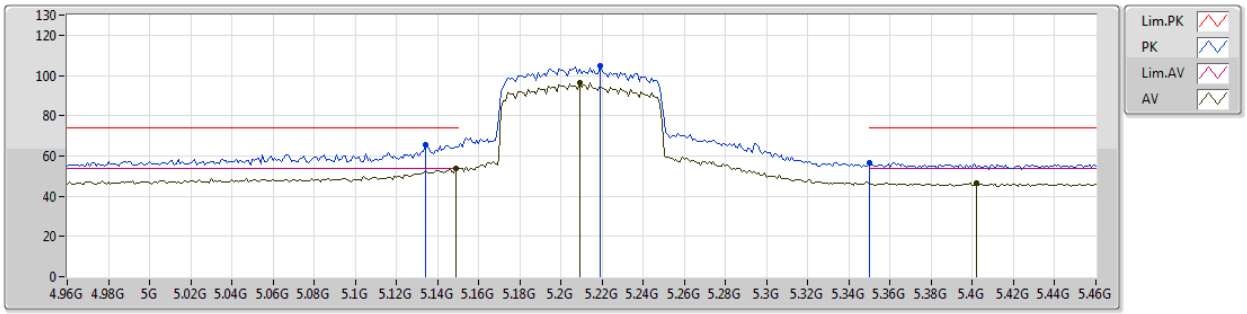


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.142G	50.10	54.00	-3.90	4.09	3	Vertical	284	1.84	-
AV	5.207G	91.88	Inf	-Inf	4.15	3	Vertical	284	1.84	-
AV	5.429G	46.02	54.00	-7.98	4.42	3	Vertical	284	1.84	-
PK	5.148G	61.87	74.00	-12.13	4.09	3	Vertical	284	1.84	-
PK	5.207G	99.39	Inf	-Inf	4.15	3	Vertical	284	1.84	-
PK	5.449G	56.11	74.00	-17.89	4.44	3	Vertical	284	1.84	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

22/03/2019

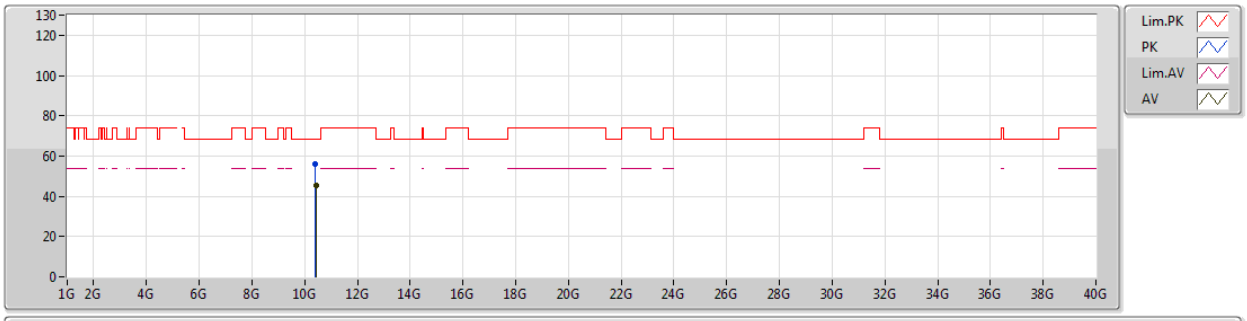


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.149G	53.94	54.00	-0.06	4.09	3	Horizontal	170	1.01	-
AV	5.209G	96.24	Inf	-Inf	4.16	3	Horizontal	170	1.01	-
AV	5.402G	46.59	54.00	-7.41	4.39	3	Horizontal	170	1.01	-
PK	5.134G	65.64	74.00	-8.36	4.07	3	Horizontal	170	1.01	-
PK	5.219G	104.80	Inf	-Inf	4.17	3	Horizontal	170	1.01	-
PK	5.35G	56.78	74.00	-17.22	4.32	3	Horizontal	170	1.01	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

22/03/2019

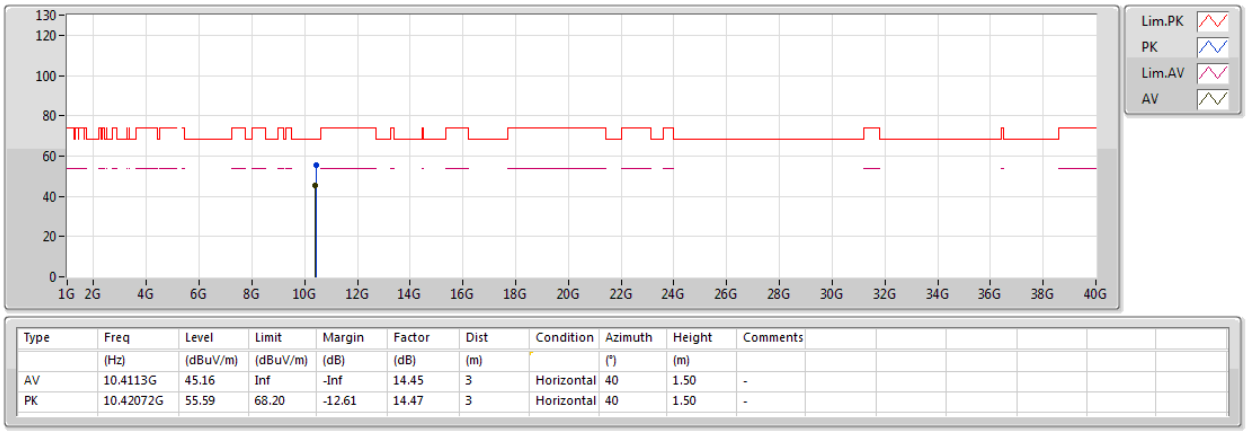


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.43284G	45.18	Inf	-Inf	14.51	3	Vertical	281	1.50	-
PK	10.4095G	55.95	68.20	-12.25	14.44	3	Vertical	281	1.50	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5210MHz_TX

22/03/2019

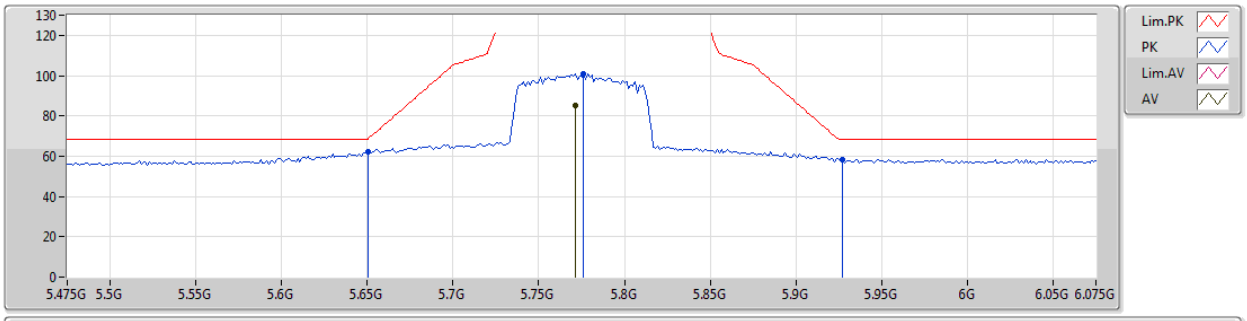


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	10.4113G	45.16	Inf	-Inf	14.45	3	Horizontal	40	1.50	-
PK	10.42072G	55.59	68.20	-12.61	14.47	3	Horizontal	40	1.50	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

22/03/2019

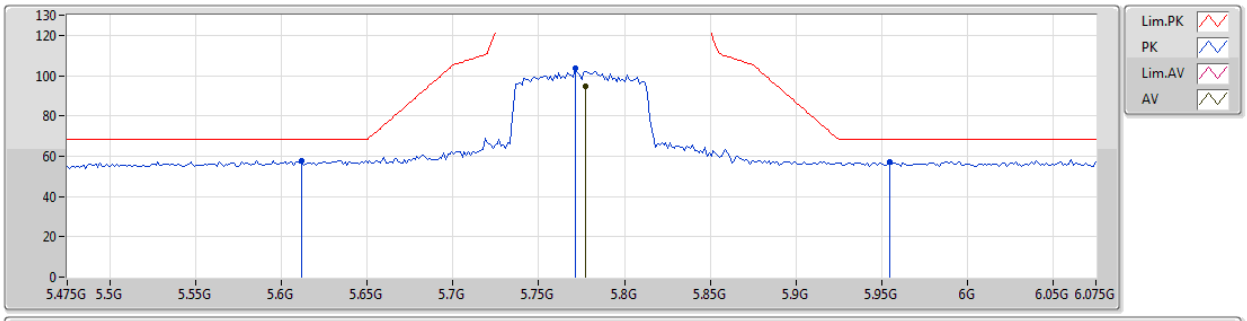


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7714G	85.11	Inf	-Inf	5.06	3	Vertical	182	1.08	-
PK	5.6502G	62.38	68.35	-5.97	4.80	3	Vertical	182	1.08	-
PK	5.7762G	101.12	Inf	-Inf	5.06	3	Vertical	182	1.08	-
PK	5.9274G	58.48	68.20	-9.72	5.37	3	Vertical	182	1.08	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

22/03/2019

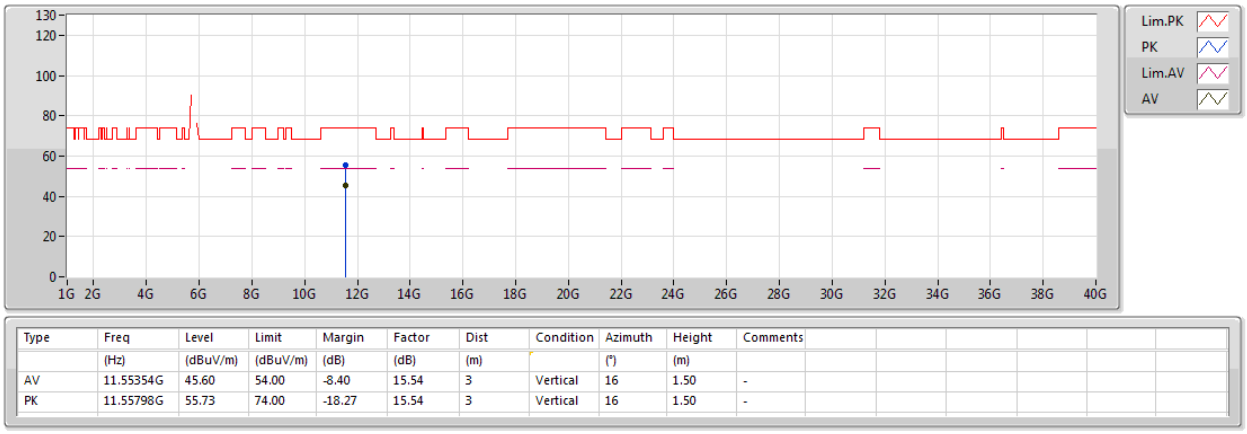


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	5.7774G	94.74	Inf	-Inf	5.06	3	Horizontal	193	1.50	-
PK	5.6118G	57.82	68.20	-10.38	4.73	3	Horizontal	193	1.50	-
PK	5.7714G	103.63	Inf	-Inf	5.06	3	Horizontal	193	1.50	-
PK	5.955G	57.05	68.20	-11.15	5.43	3	Horizontal	193	1.50	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

22/03/2019

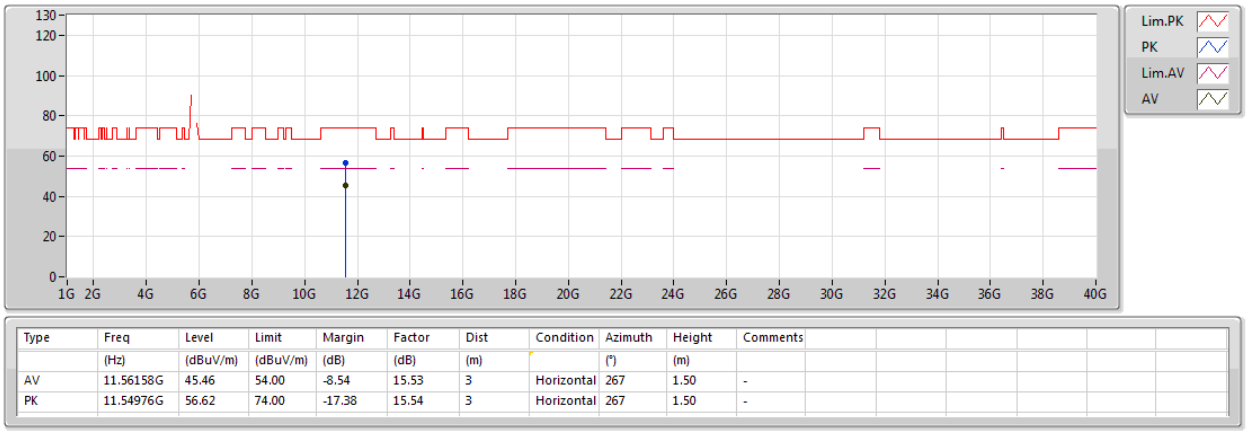


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.55354G	45.60	54.00	-8.40	15.54	3	Vertical	16	1.50	-
PK	11.55798G	55.73	74.00	-18.27	15.54	3	Vertical	16	1.50	-

802.11ac VHT80_Nss1,(MCS0)_4TX

5775MHz_TX

22/03/2019



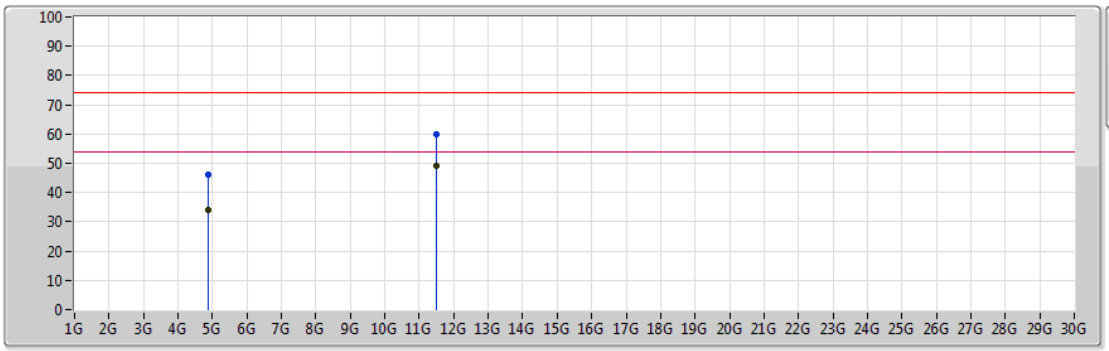
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	11.56158G	45.46	54.00	-8.54	15.53	3	Horizontal	267	1.50	-
PK	11.54976G	56.62	74.00	-17.38	15.54	3	Horizontal	267	1.50	-

Summary

Mode	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition	Azimuth (°)	Height (m)
Mode 1	AV	11.5895G	47.53	54.00	-6.47	14.92	Horizontal	103	2.56

Mode 1

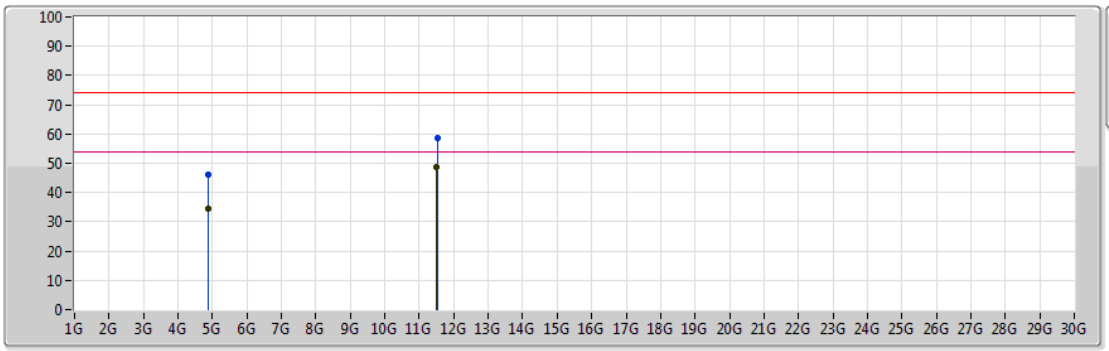
28/03/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.8892G	34.22	54.00	-19.78	6.67	3	Vertical	323	1.14	-
AV	11.5086G	49.02	54.00	-4.98	17.17	3	Vertical	307	1.01	-
PK	4.8874G	45.92	74.00	-28.08	6.67	3	Vertical	323	1.14	-
PK	11.5098G	60.01	74.00	-13.99	17.17	3	Vertical	307	1.01	-

Mode 1

28/03/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.8893G	34.31	54.00	-19.69	6.67	3	Horizontal	177	1.40	-
AV	11.5099G	48.84	54.00	-5.16	17.17	3	Horizontal	40	1.49	-
PK	4.8889G	45.98	74.00	-28.02	6.67	3	Horizontal	177	1.40	-
PK	11.5192G	58.44	74.00	-15.56	17.17	3	Horizontal	40	1.49	-