

FCC Test Report

FCC ID : SWX-AFAP
Equipment : AMPLIFI ALIEN
Brand Name : UBIQUITI
Model Name : AFi-ALN-P
Applicant : Ubiquiti Inc.
685 Third Avenue, New York,
New York 10017 USA
Manufacturer : Ubiquiti Inc.
685 Third Avenue, New York,
New York 10017 USA
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 18, 2018, and testing was started from Sep. 27, 2018 and completed on Oct. 17, 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.



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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History of this test report

[illegible]

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: Sam 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	a, n (HT20), ac (VHT20), ax (HEW 20)	5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850	n (HT40), ac (VHT40), ax (HEW 40)	5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850	ac (VHT80), ax (HEW 80)	5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.725-5.85GHz	802.11a	20	8TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	8TX
5.725-5.85GHz	802.11ax HEW20	20	8TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	8TX
5.725-5.85GHz	802.11ax HEW40	40	8TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80	80	8TX
5.725-5.85GHz	802.11ax HEW80	80	8TX

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.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.
- The resource unit of HEW 20, HEW 40, HEW 80 only support full loading.

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
6	-	-	internal antenna	I-PEX
7	-	-	internal antenna	I-PEX
8	-	-	internal antenna	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	U-NII-1	U-NII-3
1	1	4	3.5	3.5
2	2	4	3.5	3.5
3	3	4	3.5	3.5
4	4	4	3.5	3.5
5	5	-	-	3.5
6	6	-	-	3.5
7	7	-	-	3.5
8	8	-	-	3.5

Note 1: The EUT has eight antennas.

For 2.4GHz function:

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

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

For 5GHz function:

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

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

For IEEE 802.11 a/n/ac/ax mode (8TX/8RX)

At U-NII-3, Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3), Ant. 4 (port 4), Ant. 5 (port 5), Ant. 6 (port 6), Ant. 7 (port 7) and Ant. 8 (port 8) 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) $\geq 1/T$
802.11a	0.969	0.14	2.066m	1k
802.11ac VHT20	0.987	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ac VHT40	0.973	0.12	2.437m	1k
802.11ac VHT80	0.947	0.24	1.15m	1k
802.11ax HEW20	0.959	0.18	5.447m	300
802.11ax HEW40	0.958	0.19	5.44m	300
802.11ax HEW80	0.958	0.19	5.44m	300

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
- ♦ KDB 414788 D01 v01r01

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	Edward	24.2~25.3°C / 63.1~67.2%	15/Aug/2019
RF Conducted (U-NII-1)	TH01-HY	Gary	22.5~26.2°C / 63~67%	07/Oct/2019
RF Conducted (U-NII-3)	TH01-HY	Gary	23.5~25.6°C / 65~68%	27/Sep/2018~ 28/Sep/2018
Radiated (Below 1G)	03CH03-HY	Edward	24.5~26°C / 53~58%	28/Aug/2019
Radiated (U-NII-1 Above 1G)	03CH02-HY	Edward	23.7~26°C / 52~58%	05/Oct/2019
Radiated (U-NII-3 Above 1G)	03CH02-HY	Edward	23.5~27°C / 54~59%	16/Oct/2019~ 17/Oct/2019
Radiated (Co-location)	03CH02-HY	Edward	23.5~27°C / 54~59%	16/Oct/2019~ 17/Oct/2019

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software	QDART 00037.27 (U-NII-1) CMD (U-NII-3)
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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

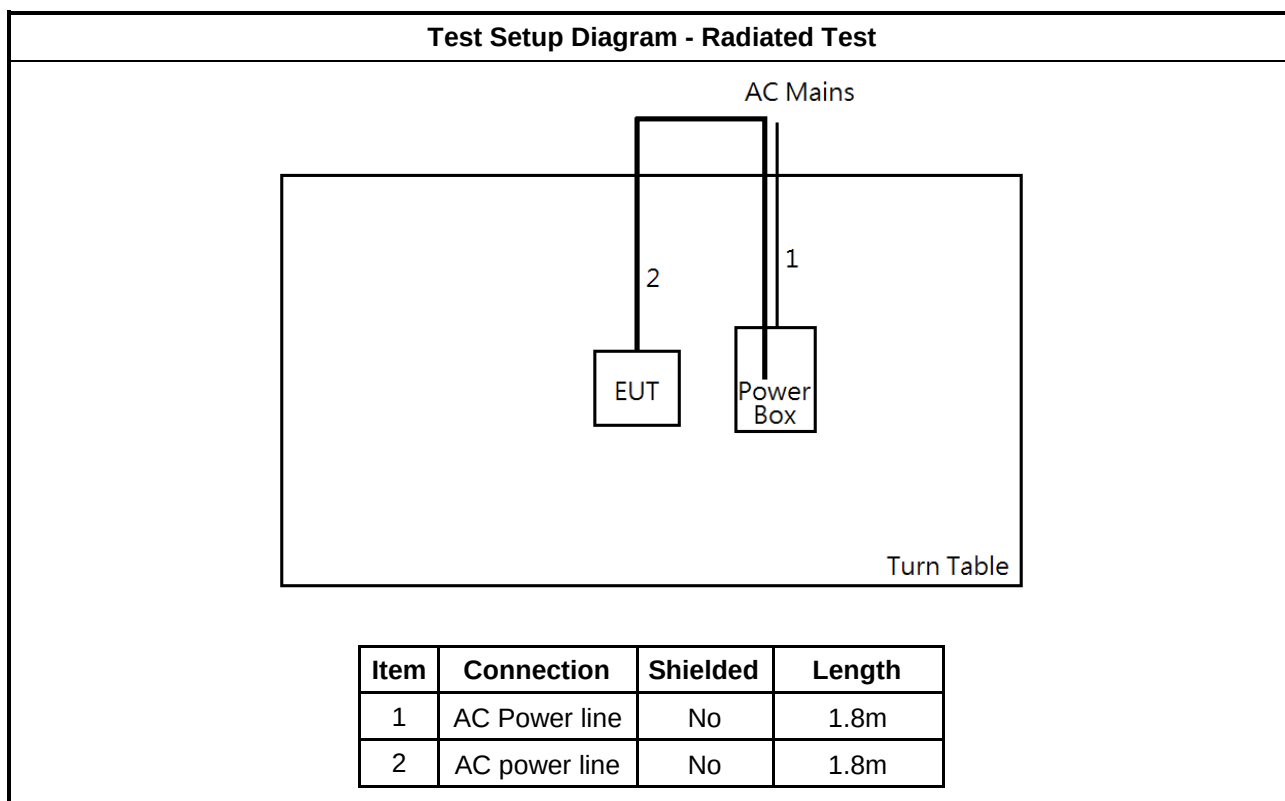
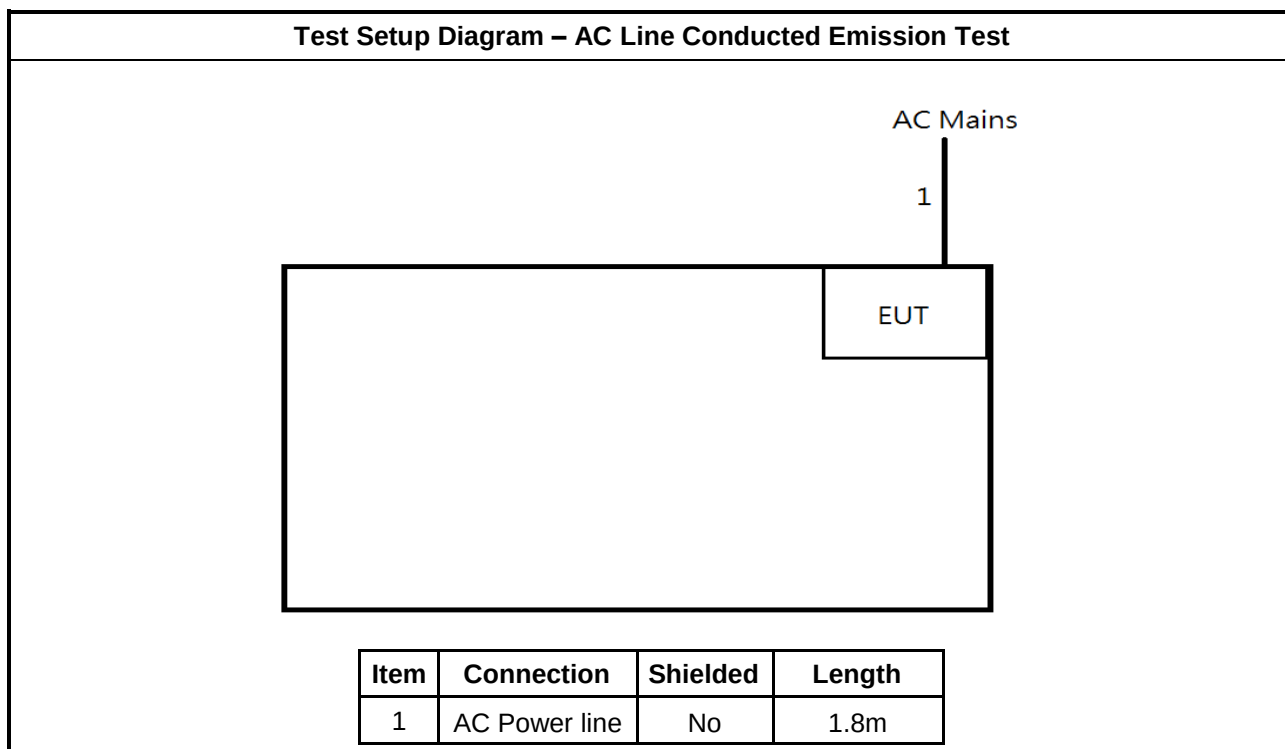
The Worst Case Mode for Following Conformance Tests			
Tests Item	Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest 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	CTX
1	WLAN 2.4GHz +WLAN 5GHz
Refer to Sporton Test Report No.: FA891806-05 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

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

2.5 Test Setup Diagram



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.

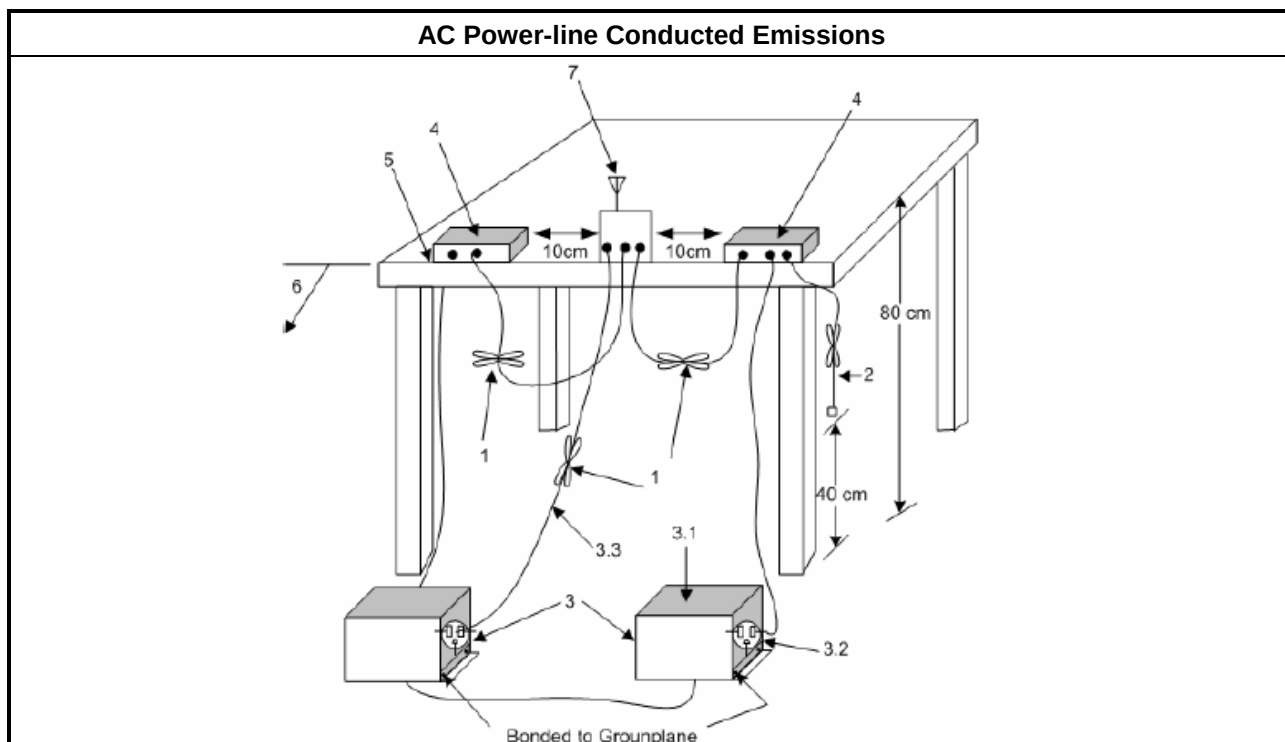
3.1.2 Measuring Instruments

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



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 $\geq$ 500kHz.

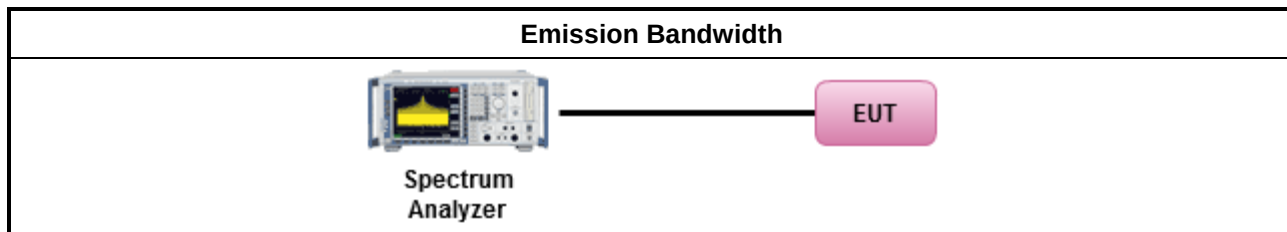
3.2.2 Measuring Instruments

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



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.	

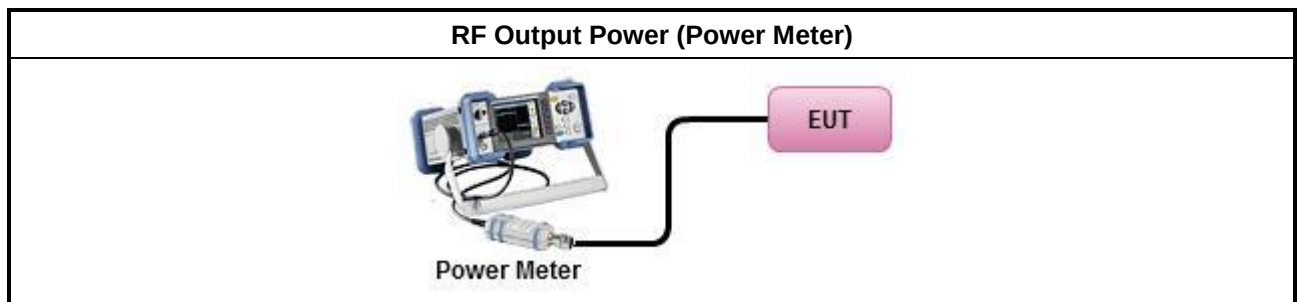
3.3.2 Measuring Instruments

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 $\geq 98\%$
☐	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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup



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 the 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.	

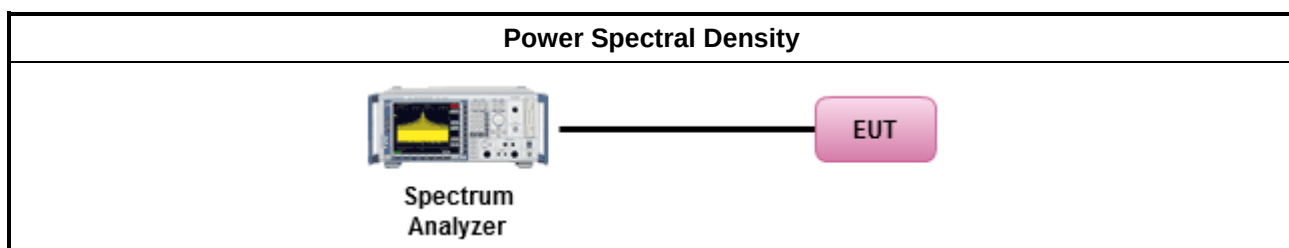
3.4.2 Measuring Instruments

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: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

3.4.4 Test Setup



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).

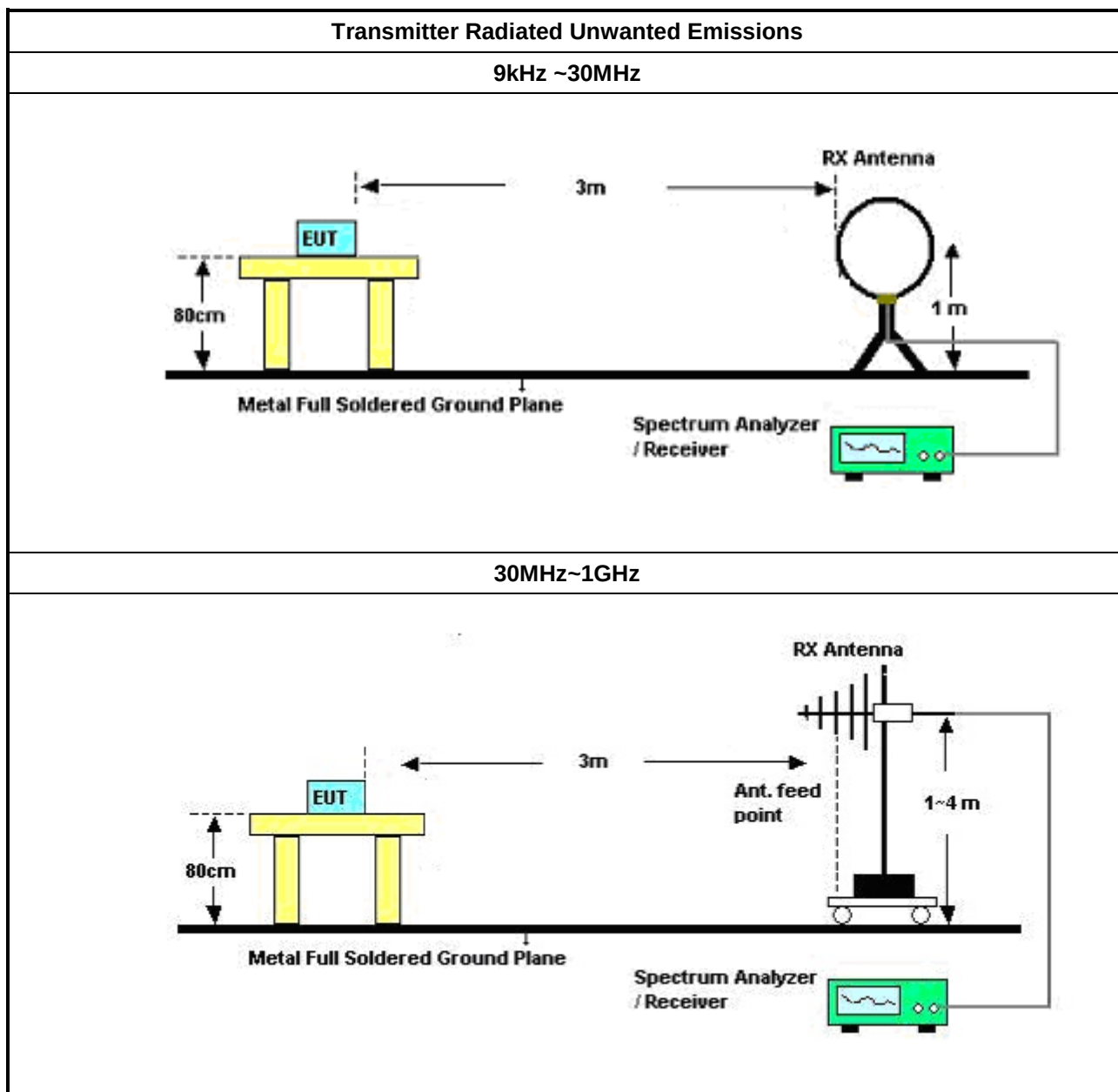
3.5.2 Measuring Instruments

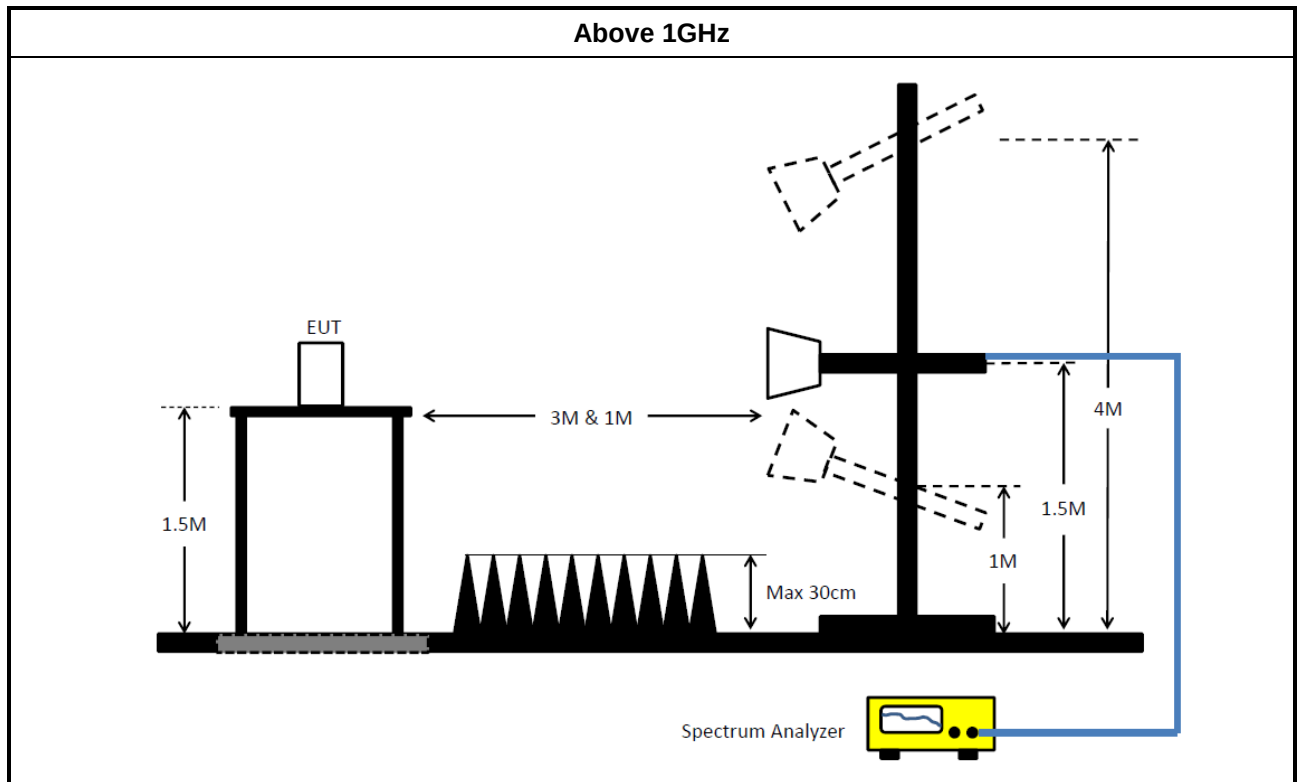
Refer a test equipment and calibration data table in this test report.

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 $\geq$ 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.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

3.5.4 Test Setup





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	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
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 (U-NII-1)

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
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	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Conducted Test (U-NII-3)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
RF Cable-1m	HUBER+SUHNER	MY37332/4	RF Cable - 44	30MHz~1GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY37332/4	RF Cable - 44	1GHz~18GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY37333/4	RF Cable - 45	30MHz~1GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY37333/4	RF Cable - 45	1GHz~18GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY37334/4	RF Cable - 46	30MHz~1GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY37334/4	RF Cable - 46	1GHz~18GHz	26/Jan/2018	25/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY33066/4	RF Cable - 30	1 to 18GHz	17/Jan/2018	16/Jan/2019
RF Cable-1m	HUBER+SUHNER	MY33067/4	RF Cable - 31	30 to 1000MHz	17/Jan/2018	16/Jan/2019
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2018	25/Oct/2019
Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

Instrument for Radiated Test (Below 1G)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02Jul/2019	01/Jul/2020
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Mar/2019	25/Mar/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112D / MTJ6102-05	2678 / 001	30MHz ~ 2GHz	06/Jul/2019	05/Jul/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020

Instrument for Radiated Test (Above 1G)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Mar/2019	25/Mar/2020
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112D / MTJ6102-05	2678 / 001	30MHz ~ 2GHz	06/Jul/2019	05/Jul/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

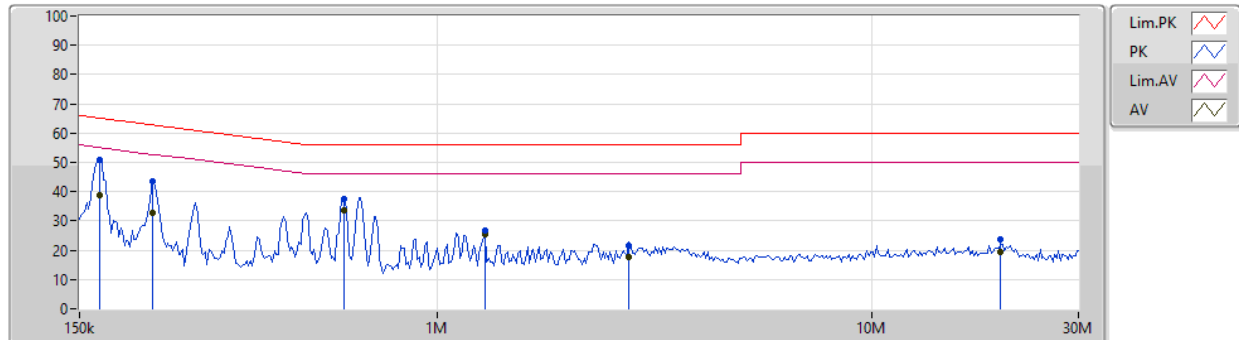
Instrument for Radiated Test (Co-location)

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	9/Apr/2019	8/Apr/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	AC mains mode		

16/08/2019

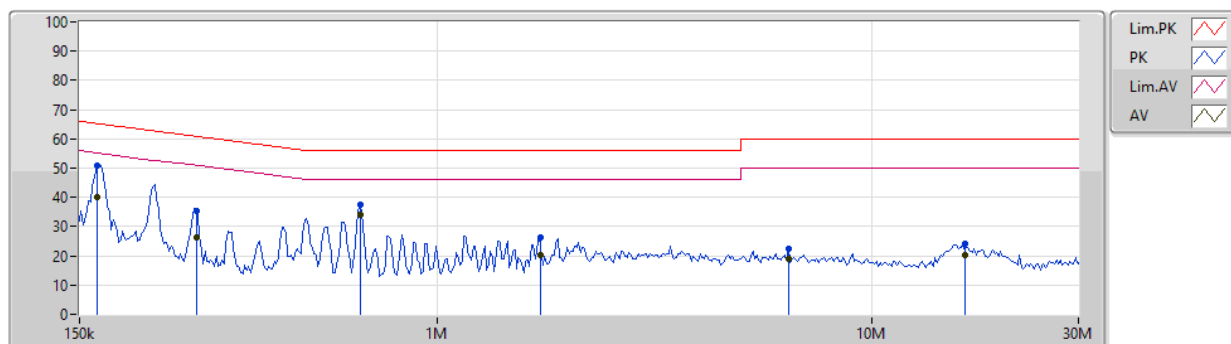


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	167.35k	50.70	65.08	-14.38	19.48	Neutral	-	31.22	9.60	0.01	9.87			
AV	167.35k	38.87	55.08	-16.21	19.48	Neutral	-	19.39	9.60	0.01	9.87			
QP	221.118k	43.38	62.77	-19.39	19.47	Neutral	-	23.91	9.59	0.01	9.87			
AV	221.118k	32.80	52.77	-19.97	19.47	Neutral	-	13.33	9.59	0.01	9.87			
QP	610.106k	37.50	56.00	-18.50	19.48	Neutral	-	18.02	9.59	0.01	9.88			
AV	610.106k	33.73	46.00	-12.27	19.48	Neutral	"Worst"	14.25	9.59	0.01	9.88			
QP	1.287M	26.86	56.00	-29.14	19.50	Neutral	-	7.36	9.60	0.02	9.88			
AV	1.287M	25.43	46.00	-20.57	19.50	Neutral	-	5.93	9.60	0.02	9.88			
QP	2.769M	21.34	56.00	-34.66	19.54	Neutral	-	1.80	9.61	0.04	9.89			
AV	2.769M	17.58	46.00	-28.42	19.54	Neutral	-	-1.96	9.61	0.04	9.89			
QP	19.856M	23.67	60.00	-36.33	19.69	Neutral	-	3.98	9.68	0.11	9.90			
AV	19.856M	19.58	50.00	-30.42	19.69	Neutral	-	-0.11	9.68	0.11	9.90			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	AC mains mode		

16/08/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	164.942k	50.95	65.22	-14.27	19.48	Line	-	31.47	9.60	0.01	9.87			
AV	164.942k	39.96	55.22	-15.26	19.48	Line	-	20.48	9.60	0.01	9.87			
QP	279.065k	35.38	60.84	-25.46	19.48	Line	-	15.90	9.60	0.01	9.87			
AV	279.065k	26.25	50.84	-24.59	19.48	Line	-	6.77	9.60	0.01	9.87			
QP	666.301k	37.46	56.00	-18.54	19.49	Line	-	17.97	9.60	0.01	9.88			
AV	666.301k	34.03	46.00	-11.97	19.49	Line	"Worst"	14.54	9.60	0.01	9.88			
QP	1.729M	26.10	56.00	-29.90	19.54	Line	-	6.56	9.62	0.03	9.89			
AV	1.729M	20.43	46.00	-25.57	19.54	Line	-	0.89	9.62	0.03	9.89			
QP	6.443M	22.22	60.00	-37.78	19.60	Line	-	2.62	9.65	0.06	9.89			
AV	6.443M	19.00	50.00	-31.00	19.60	Line	-	-0.60	9.65	0.06	9.89			
QP	16.458M	24.22	60.00	-35.78	19.64	Line	-	4.58	9.64	0.10	9.90			
AV	16.458M	20.24	50.00	-29.76	19.64	Line	-	0.60	9.64	0.10	9.90			

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	36.69M	17.601M	17M6D1D	19.11M	16.402M
802.11ac VHT20_Nss1,(MCS0)_4TX	37.35M	18.141M	18M1D1D	20.34M	17.571M
802.11ac VHT40_Nss1,(MCS0)_4TX	40.26M	36.042M	36M0D1D	39.12M	35.862M
802.11ac VHT80_Nss1,(MCS0)_4TX	83.52M	75.802M	75M8D1D	82.44M	75.682M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	16.375M	16.592M	16M6D1D	15.65M	16.442M
802.11ac VHT20_Nss1,(MCS0)_8TX	17.625M	17.616M	17M6D1D	16.8M	17.566M
802.11ac VHT40_Nss1,(MCS0)_8TX	36.35M	36.132M	36M1D1D	29.7M	36.032M
802.11ac VHT80_Nss1,(MCS0)_8TX	76.3M	75.562M	75M6D1D	55.1M	75.262M
802.11ax HEW20_Nss1,(MCS0)_8TX	19M	18.941M	18M9D1D	16.9M	18.866M
802.11ax HEW40_Nss1,(MCS0)_8TX	37.95M	37.781M	37M8D1D	33.8M	37.631M
802.11ax HEW80_Nss1,(MCS0)_8TX	77.5M	77.061M	77M1D1D	60.5M	76.962M

Max-N dB = Maximum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for UNII-3 band / Maximum 26dB down bandwidth for other band; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

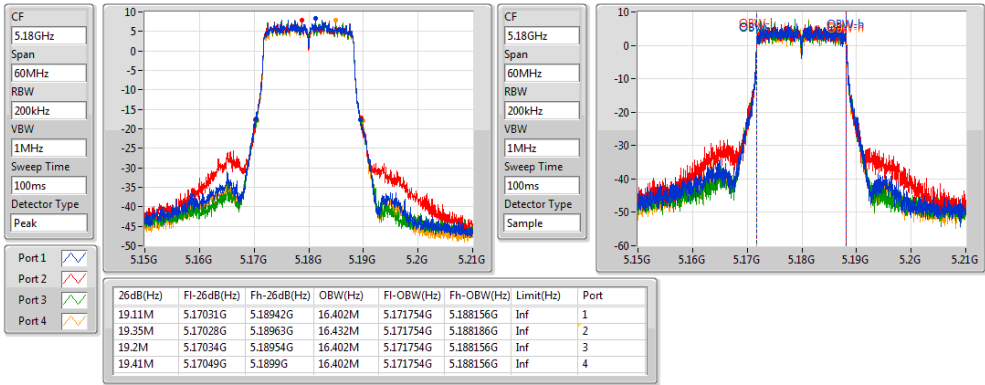
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW	Port 3-N dB	Port 3-OBW	Port 4-N dB	Port 4-OBW	Port 5-N dB	Port 5-OBW	Port 6-N dB	Port 6-OBW	Port 7-N dB	Port 7-OBW	Port 8-N dB	Port 8-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	19.11M	16.402M	19.35M	16.432M	19.2M	16.402M	19.41M	16.402M								
5200MHz	Pass	Inf	20.34M	16.402M	20.1M	16.462M	20.46M	16.462M	19.83M	16.402M								
5240MHz	Pass	Inf	36.45M	16.912M	35.79M	16.912M	33.15M	16.852M	36.69M	17.601M								
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.325M	16.567M	16.325M	16.467M	16.375M	16.542M	15.65M	16.442M	16.325M	16.442M	16.375M	16.492M	16.325M	16.517M	16.325M	16.467M
5785MHz	Pass	500k	16.325M	16.442M	16.35M	16.592M	16.35M	16.467M	16.35M	16.542M	16.325M	16.567M	16.325M	16.492M	16.375M	16.567M	16.375M	16.492M
5825MHz	Pass	500k	16.35M	16.542M	15.7M	16.467M	16.375M	16.517M	16.3M	16.442M	16.325M	16.467M	16.35M	16.517M	16.35M	16.517M	16.375M	16.492M
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.34M	17.571M	20.34M	17.631M	20.55M	17.601M	20.43M	17.601M								
5200MHz	Pass	Inf	21.57M	17.661M	21.27M	17.691M	22.32M	17.691M	21.33M	17.631M								
5240MHz	Pass	Inf	36.27M	17.871M	35.7M	17.901M	35.76M	17.841M	37.35M	18.141M								
802.11ac_VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	17.525M	17.591M	17.525M	17.591M	17.575M	17.591M	16.9M	17.566M	17.275M	17.616M	17.575M	17.591M	17.575M	17.591M	16.9M	17.566M
5785MHz	Pass	500k	17.625M	17.591M	17.15M	17.591M	17.575M	17.616M	17.125M	17.616M	16.9M	17.591M	16.8M	17.591M	17.575M	17.591M	16.9M	17.591M
5825MHz	Pass	500k	16.875M	17.566M	17.525M	17.591M	17.575M	17.566M	17.525M	17.591M	17.55M	17.616M	17.575M	17.591M	17.575M	17.566M	17.55M	17.591M
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.66M	35.862M	39.6M	35.862M	39.3M	35.862M	39.12M	35.982M								
5230MHz	Pass	Inf	40.26M	35.982M	39.9M	35.982M	39.72M	36.042M	39.48M	35.982M								
802.11ac_VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	36.3M	36.082M	36.35M	36.082M	35.9M	36.132M	36M	36.082M	36.35M	36.082M	35.65M	36.032M	36.35M	36.082M	35.45M	36.032M
5795MHz	Pass	500k	36.3M	36.032M	29.7M	36.082M	35.05M	36.082M	34.65M	36.132M	31.05M	36.032M	35.2M	36.082M	34.85M	36.132M	36.25M	36.032M
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.52M	75.682M	83.4M	75.682M	83.16M	75.682M	82.44M	75.802M								
802.11ac_VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.7M	75.562M	55.1M	75.562M	76.3M	75.462M	69.5M	75.462M	69.9M	75.262M	74.4M	75.462M	75.7M	75.562M	71.3M	75.262M
802.11ax_HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.45M	18.941M	16.9M	18.916M	19M	18.916M	17.825M	18.866M	18.675M	18.866M	18.525M	18.941M	18.925M	18.891M	18.825M	18.916M
5785MHz	Pass	500k	18.925M	18.891M	18.45M	18.916M	18.65M	18.891M	18.975M	18.916M	18.65M	18.891M	18.95M	18.891M	18.825M	18.916M	18.45M	18.866M
5825MHz	Pass	500k	18.125M	18.916M	18.875M	18.916M	18.225M	18.916M	18.55M	18.916M	19M	18.891M	18.825M	18.916M	18.4M	18.941M	18.975M	18.916M
802.11ax_HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.15M	37.681M	37.8M	37.781M	37.25M	37.681M	33.8M	37.731M	36.85M	37.731M	37.75M	37.731M	36.7M	37.781M	37.75M	37.631M
5795MHz	Pass	500k	37.8M	37.631M	34.65M	37.681M	37.7M	37.681M	37.75M	37.731M	37.5M	37.781M	37.85M	37.681M	37.95M	37.731M	37.15M	37.681M
802.11ax_HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	77.4M	76.962M	69.6M	77.061M	73.9M	77.061M	76.4M	77.061M	74.8M	77.061M	75.4M	77.061M	77.5M	76.962M	60.5M	77.061M

Port X-N dB = Port X 6dB down bandwidth for UNII-3 band / 26dB down bandwidth for other band; Port X-OBW = Port X 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_4TX

EBW

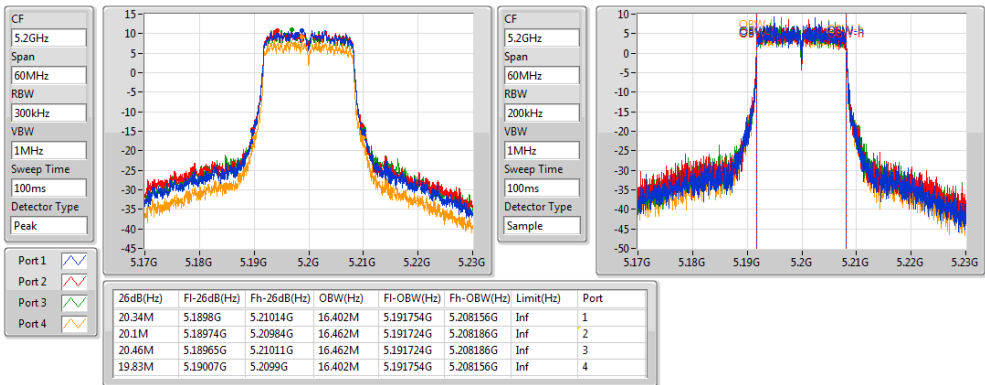
5180MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

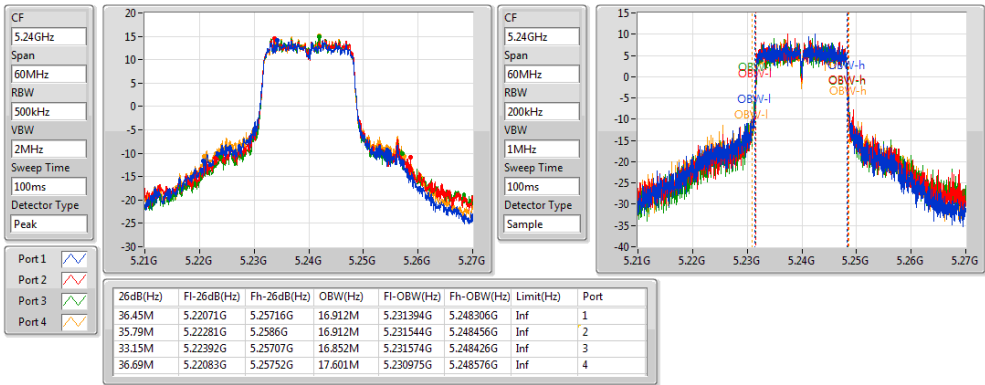
5200MHz



802.11a_Nss1,(6Mbps)_4TX

EBW

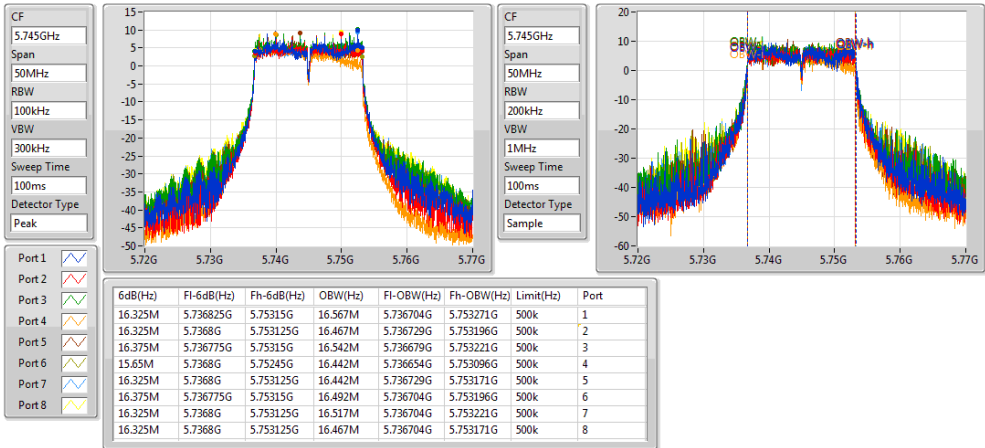
5240MHz



802.11a_Nss1,(6Mbps)_8TX

EBW

5745MHz



802.11a_Nss1,(6Mbps)_8TX

EBW

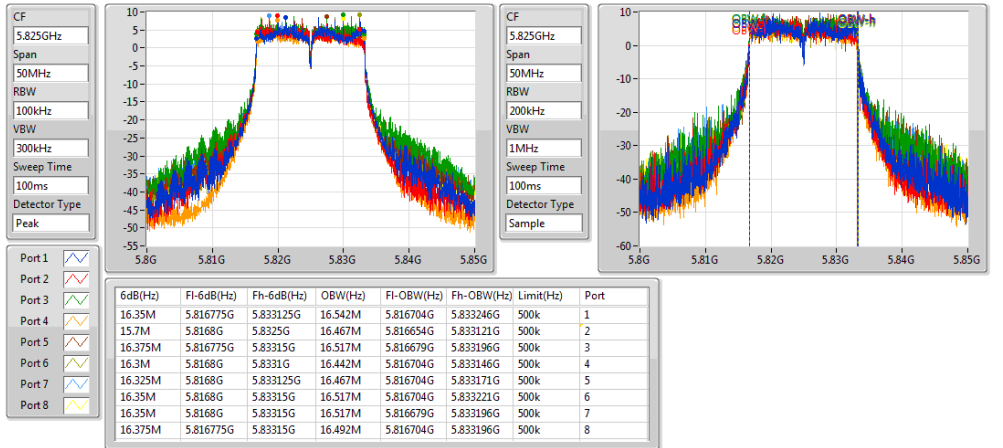
5785MHz



802.11a_Nss1,(6Mbps)_8TX

EBW

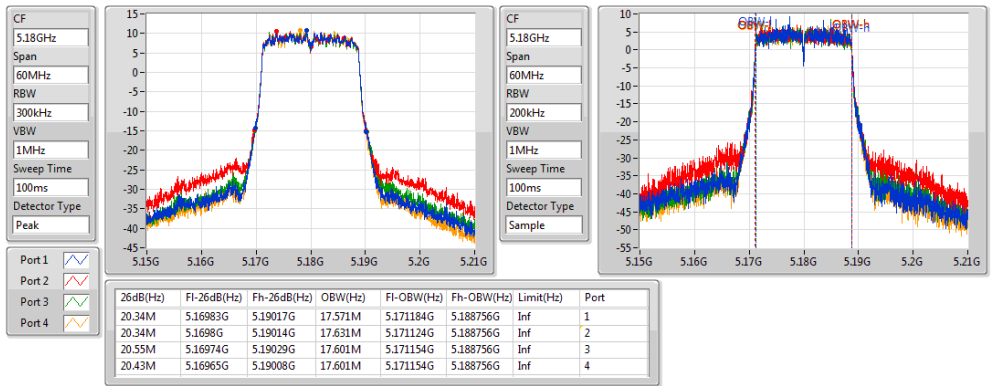
5825MHz



802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

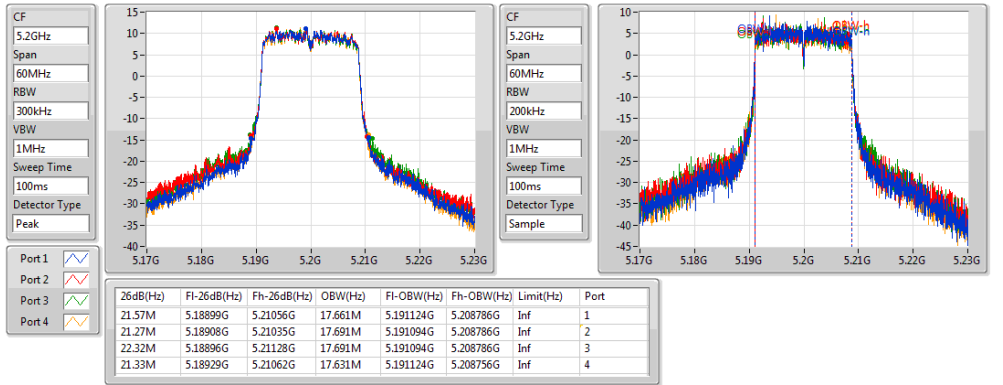
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802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

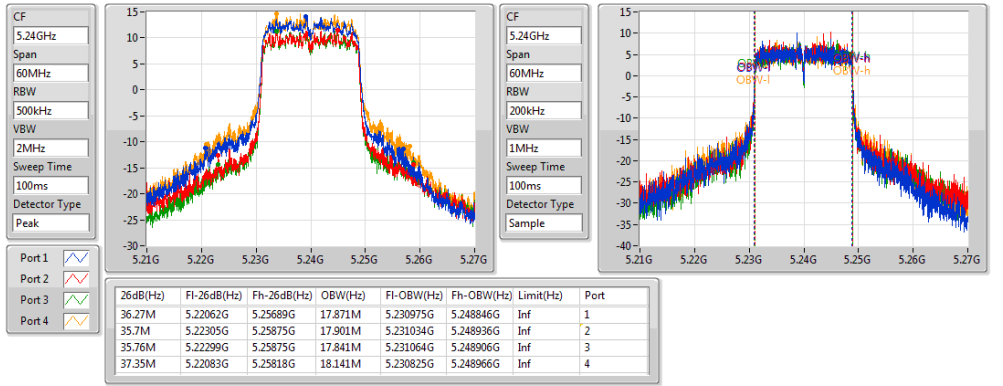
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802.11ac VHT20_Nss1,(MCS0)_4TX

EBW

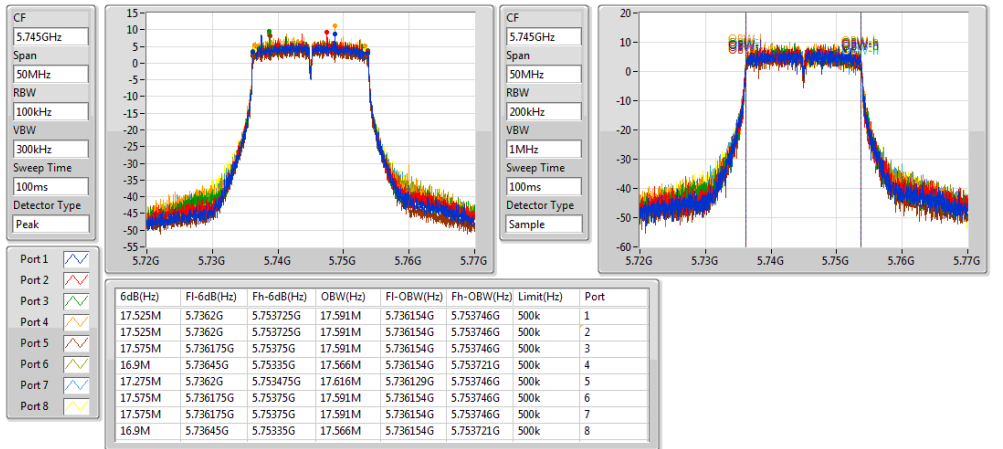
5240MHz



802.11ac VHT20_Nss1,(MCS0)_8TX

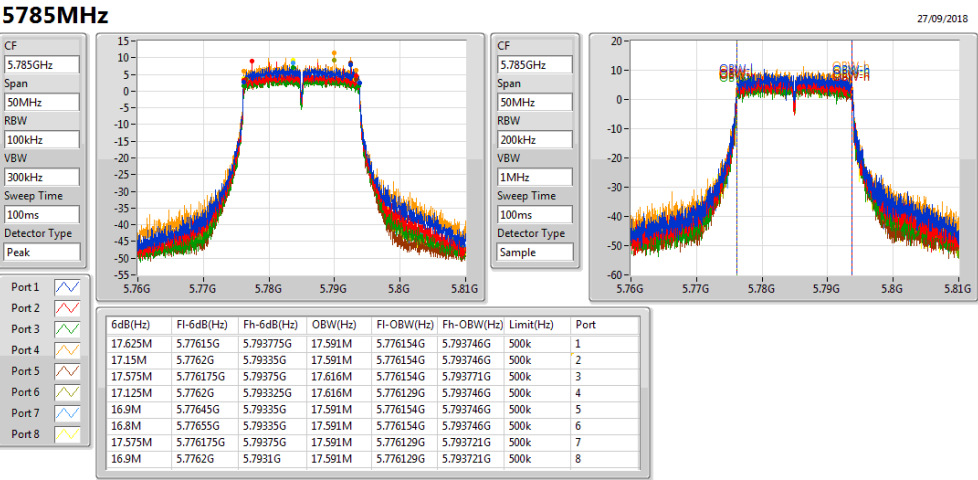
EBW

5745MHz



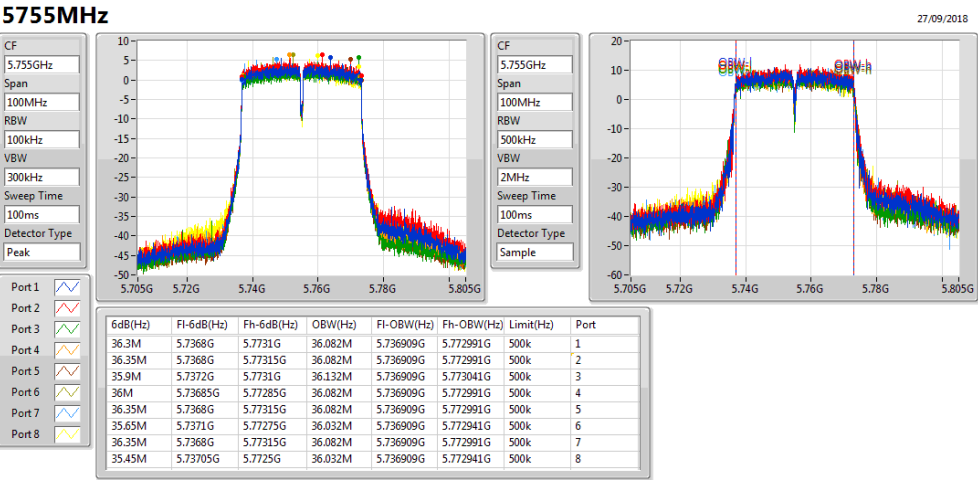
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EBW



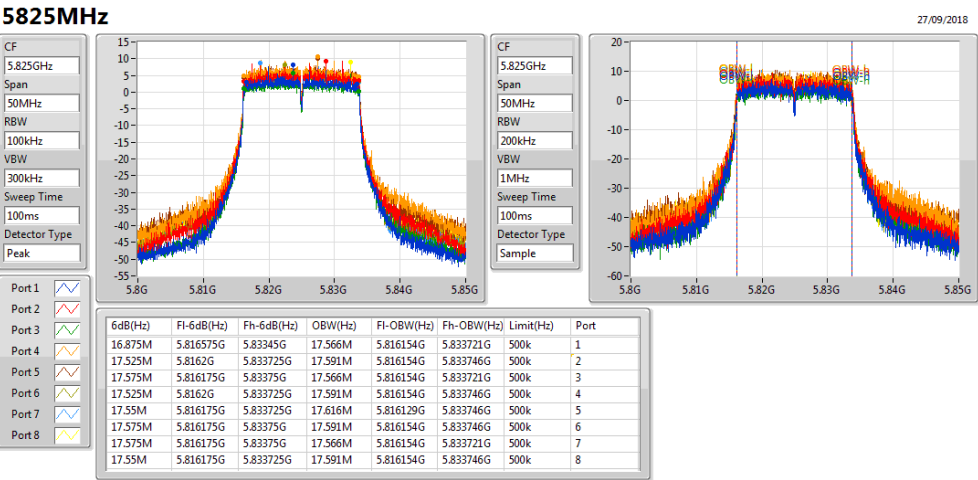
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EBW



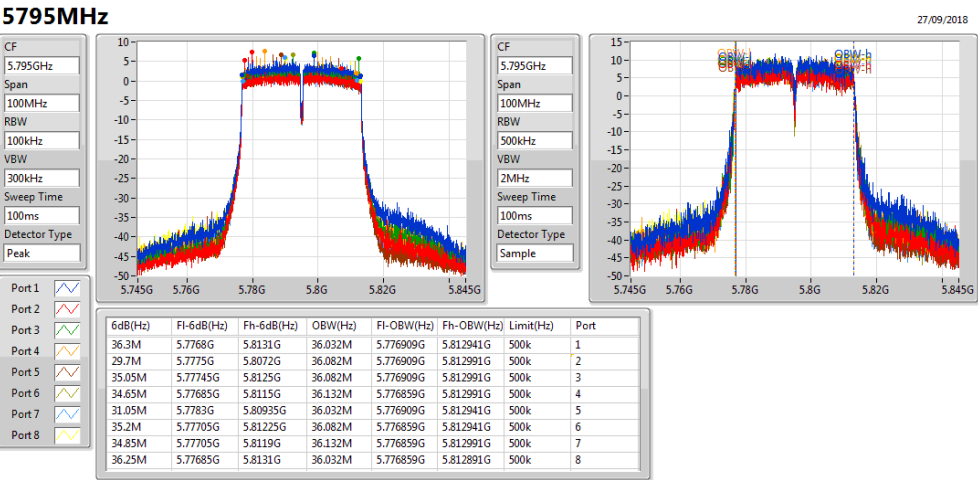
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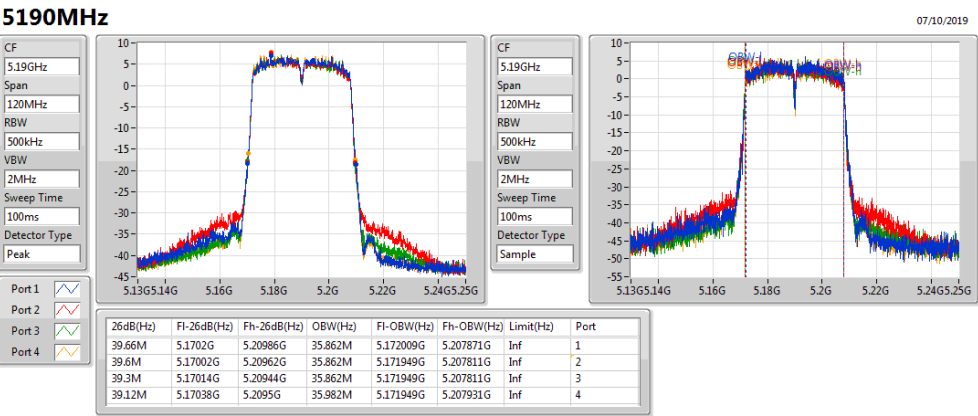
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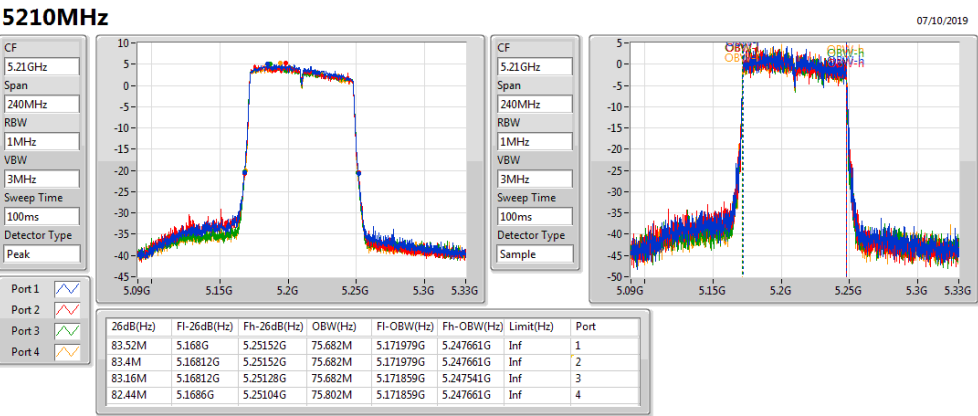
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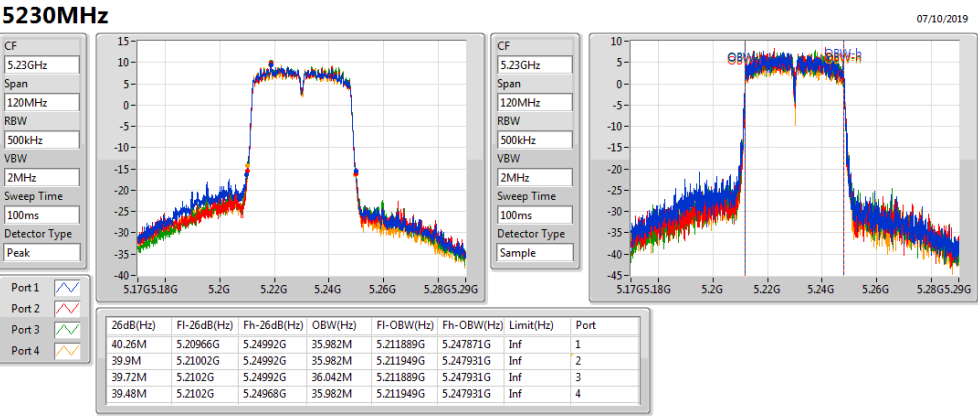
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EBW



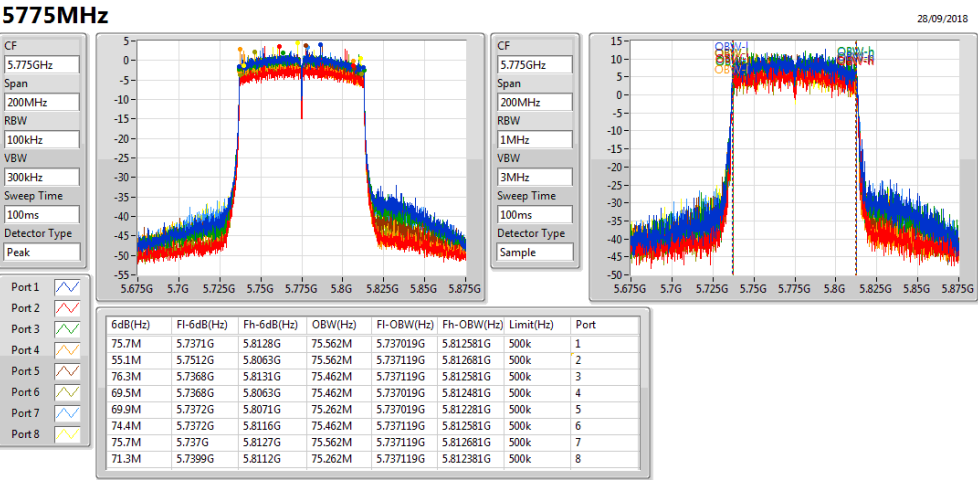
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EBW



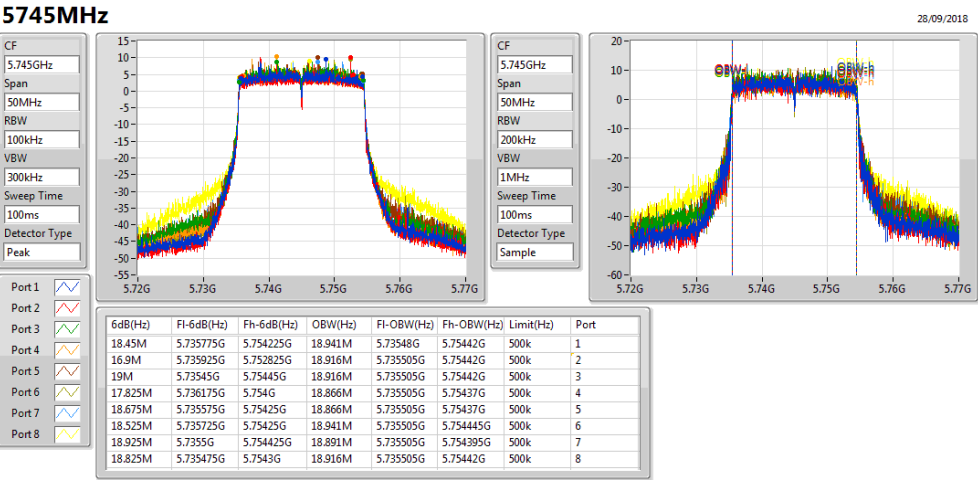
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EBW



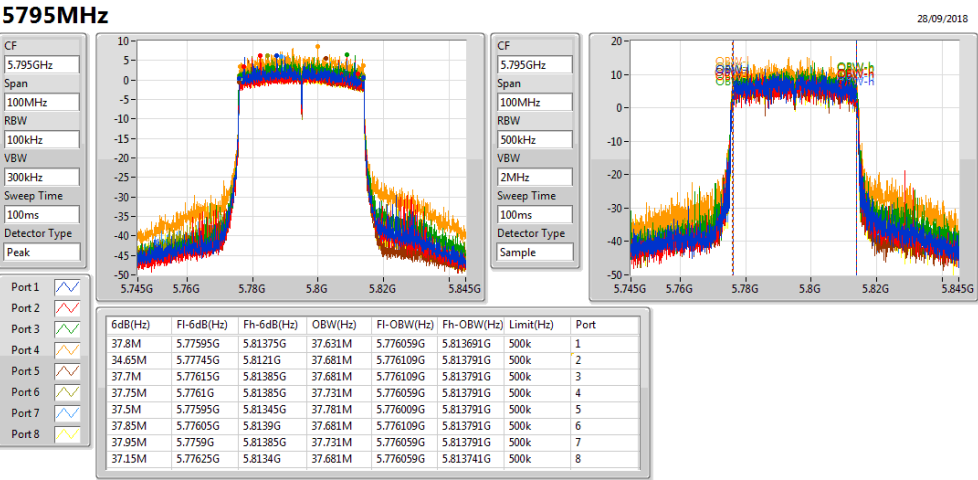
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW



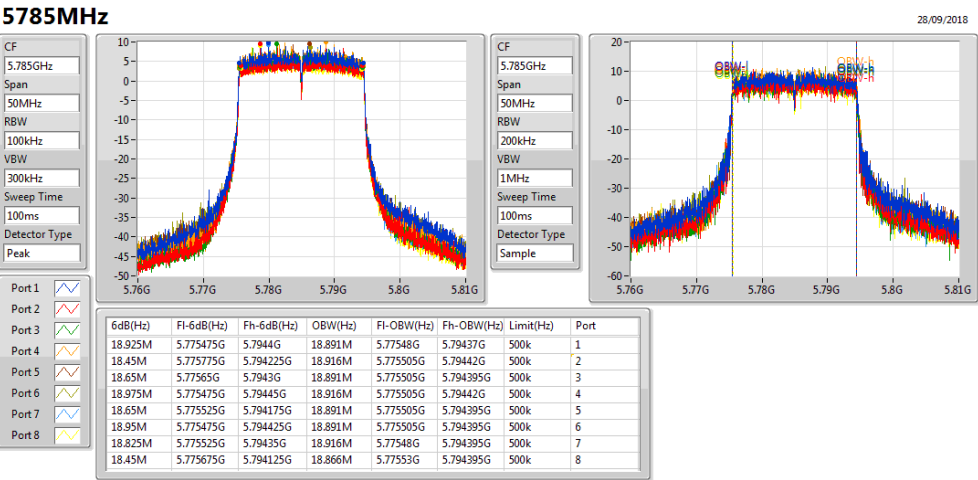
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EBW



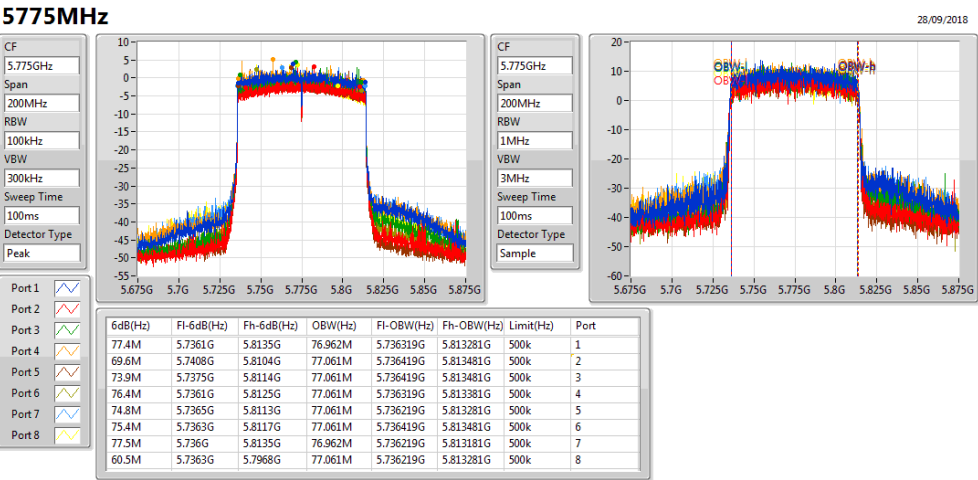
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EBW



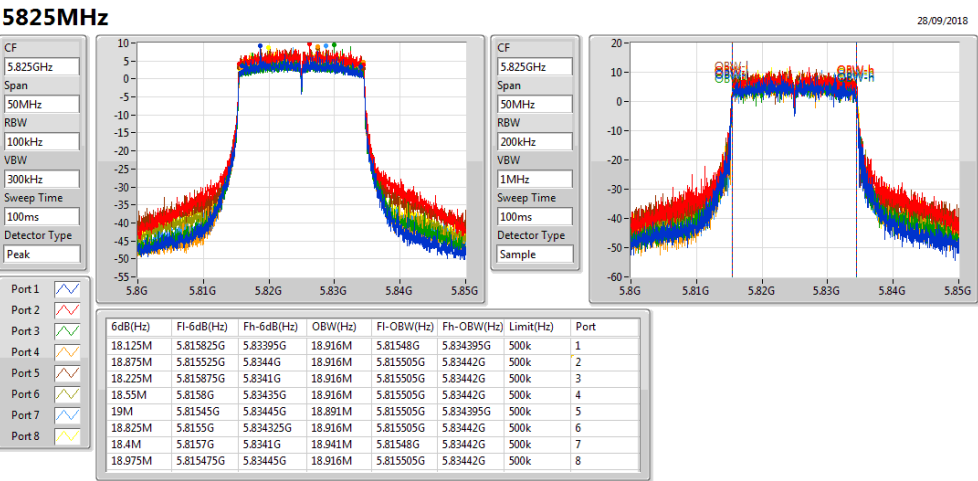
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EBW



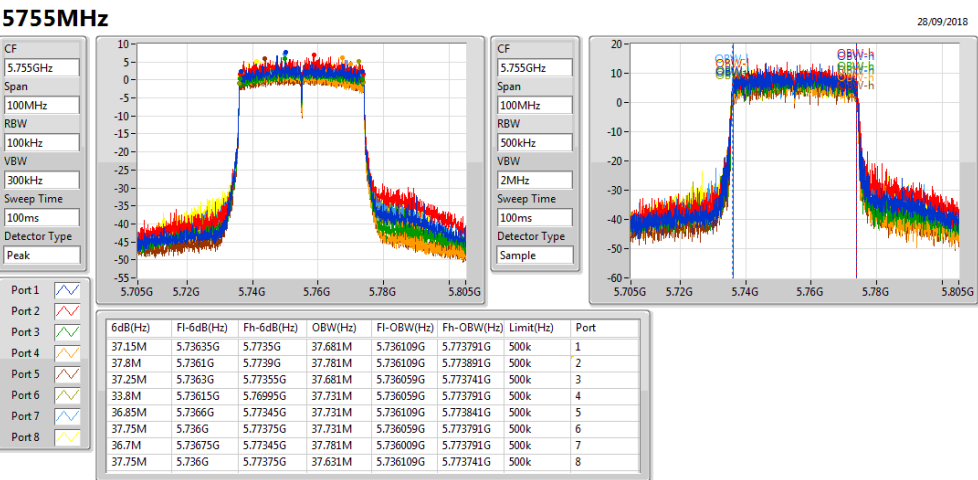
802.11ax HEW20_Nss1,(MCS0)_8TX

EBW



802.11ax HEW40_Nss1,(MCS0)_8TX

EBW





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	26.03	0.40087	29.53	0.89743
802.11ac VHT20_Nss1,(MCS0)_4TX	25.80	0.38019	29.30	0.85114
802.11ac VHT40_Nss1,(MCS0)_4TX	23.89	0.24491	27.39	0.54828
802.11ac VHT80_Nss1,(MCS0)_4TX	19.32	0.08551	22.82	0.19143
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	29.38	0.86696	35.88	3.87258
802.11ac VHT20_Nss1,(MCS0)_8TX	29.21	0.83368	35.71	3.72392
802.11ac VHT40_Nss1,(MCS0)_8TX	29.78	0.95060	33.28	2.12814
802.11ac VHT80_Nss1,(MCS0)_8TX	29.74	0.94189	33.24	2.10863
802.11ax HEW20_Nss1,(MCS0)_8TX	29.45	0.88105	35.95	3.93550
802.11ax HEW40_Nss1,(MCS0)_8TX	29.89	0.97499	33.39	2.18273
802.11ax HEW80_Nss1,(MCS0)_8TX	29.79	0.95280	33.29	2.13304



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Port 5 (dBm)	Port 6 (dBm)	Port 7 (dBm)	Port 8 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.50	17.90	17.93	17.72	17.61					23.81	30.00	27.31	36.00
5200MHz	Pass	3.50	19.20	19.16	18.93	18.86					25.06	30.00	28.56	36.00
5240MHz	Pass	3.50	19.95	20.17	19.96	19.94					26.03	30.00	29.53	36.00
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.50	20.32	20.14	21.28	19.23	20.33	20.43	20.32	20.46	29.38	29.50	35.88	36.00
5785MHz	Pass	6.50	20.48	20.56	18.74	22.09	20.10	19.82	19.87	19.89	29.32	29.50	35.82	36.00
5825MHz	Pass	6.50	19.70	19.56	20.61	18.77	20.46	20.07	20.48	20.02	29.03	29.50	35.53	36.00
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	3.50	18.87	18.76	18.70	18.67					24.77	30.00	28.27	36.00
5200MHz	Pass	3.50	19.37	19.45	19.38	19.24					25.38	30.00	28.88	36.00
5240MHz	Pass	3.50	19.69	19.99	19.81	19.61					25.80	30.00	29.30	36.00
802.11ac_VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.50	19.80	20.18	20.61	21.07	18.85	20.52	20.40	19.62	29.21	29.50	35.71	36.00
5785MHz	Pass	6.50	21.06	19.78	18.99	21.51	19.21	19.15	20.02	19.72	29.05	29.50	35.55	36.00
5825MHz	Pass	6.50	17.99	19.93	17.66	21.31	21.36	20.01	20.07	20.29	29.03	29.50	35.53	36.00
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	3.50	16.11	15.72	15.73	15.43					21.77	30.00	25.27	36.00
5230MHz	Pass	3.50	18.16	18.01	17.88	17.37					23.89	30.00	27.39	36.00
802.11ac_VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	3.50	20.71	21.59	19.92	20.54	20.44	20.50	20.33	19.98	29.56	30.00	33.06	36.00
5795MHz	Pass	3.50	22.01	19.26	20.93	21.60	19.74	20.97	19.84	20.92	29.78	30.00	33.28	36.00
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	3.50	13.74	13.34	13.11	12.98					19.32	30.00	22.82	36.00
802.11ac_VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	3.50	21.88	18.87	21.64	19.85	21.15	19.80	21.36	20.21	29.74	30.00	33.24	36.00
802.11ax_HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	6.50	19.99	19.29	20.64	19.63	20.76	20.19	20.18	20.70	29.23	29.50	35.73	36.00
5785MHz	Pass	6.50	21.24	19.46	19.98	21.51	20.60	20.72	20.13	19.13	29.45	29.50	35.95	36.00
5825MHz	Pass	6.50	19.16	21.47	19.14	19.59	21.29	20.40	19.69	20.61	29.28	29.50	35.78	36.00
802.11ax_HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	3.50	21.11	22.48	20.40	19.37	19.01	20.11	21.13	20.19	29.63	30.00	33.13	36.00
5795MHz	Pass	3.50	20.36	19.41	21.33	23.19	19.60	21.21	20.88	19.52	29.89	30.00	33.39	36.00
802.11ax_HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	3.50	22.02	19.26	21.23	22.44	19.46	20.26	20.15	20.12	29.79	30.00	33.29	36.00

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



Summary

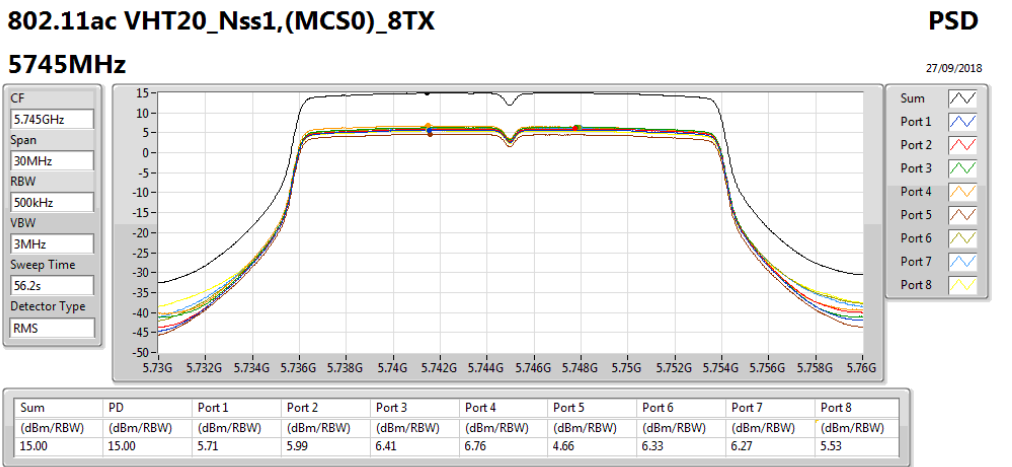
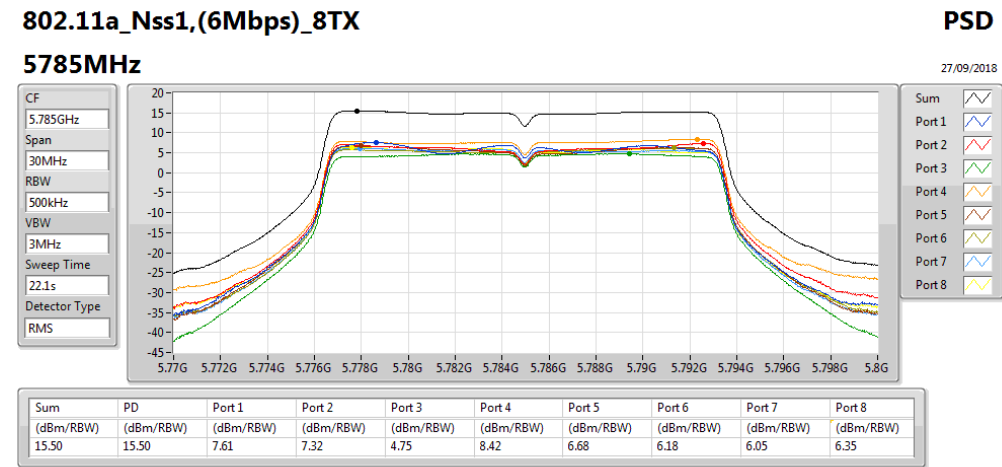
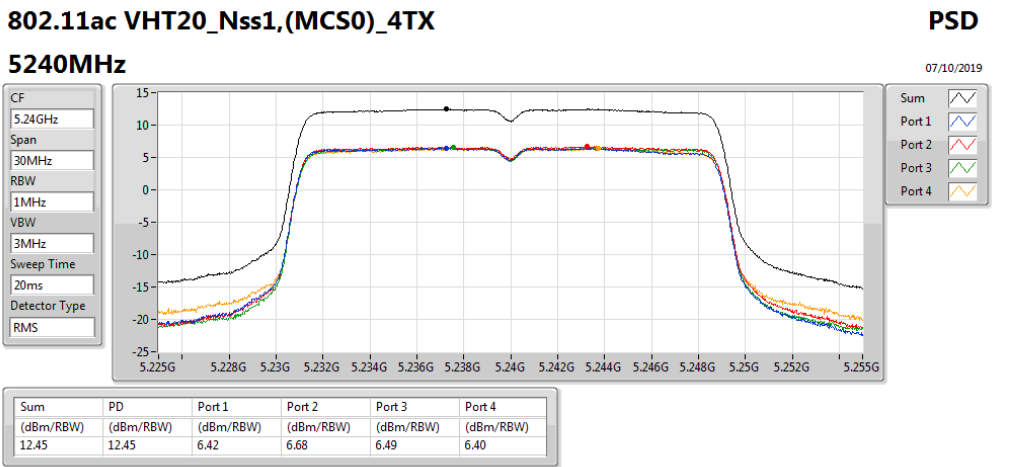
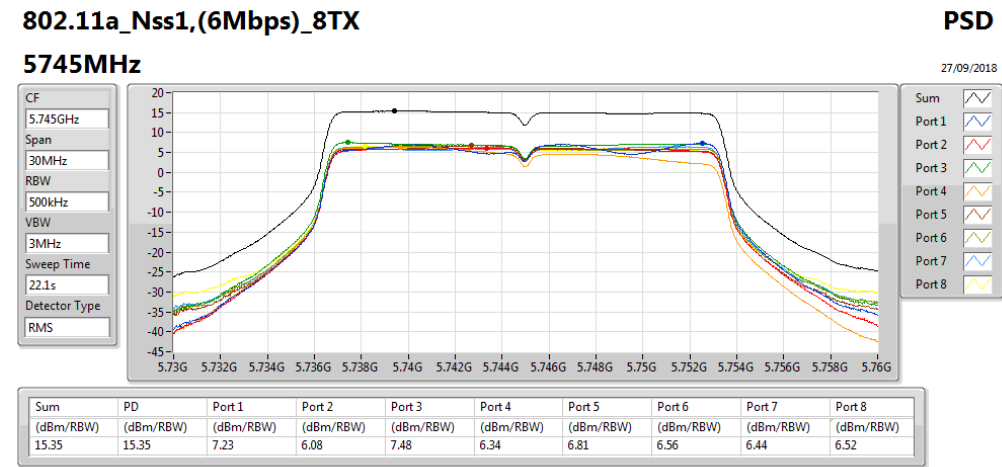
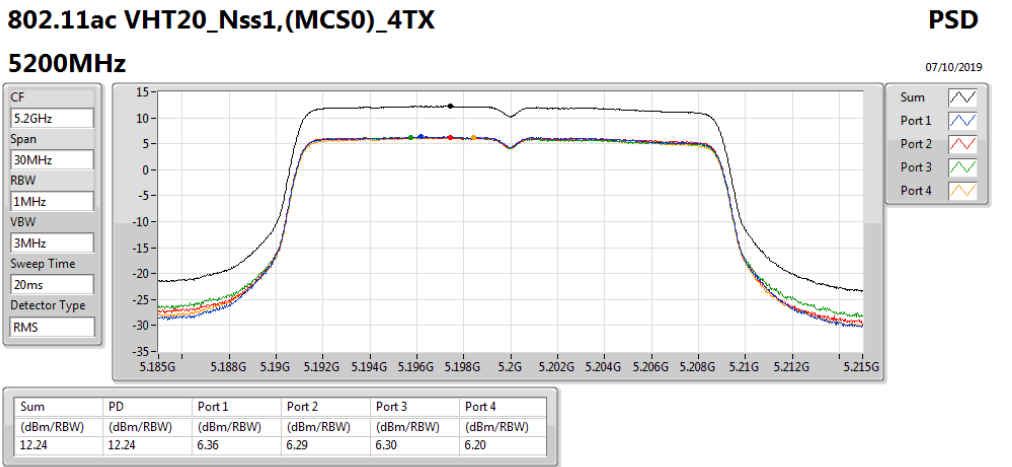
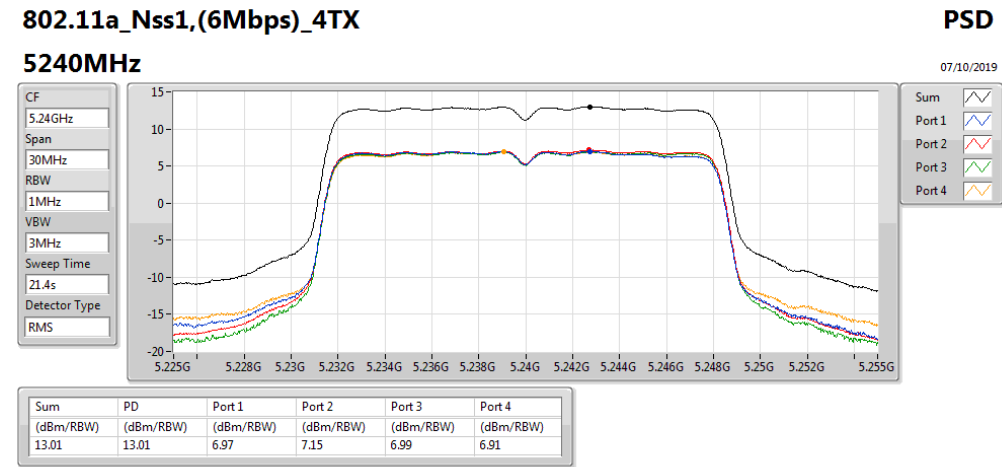
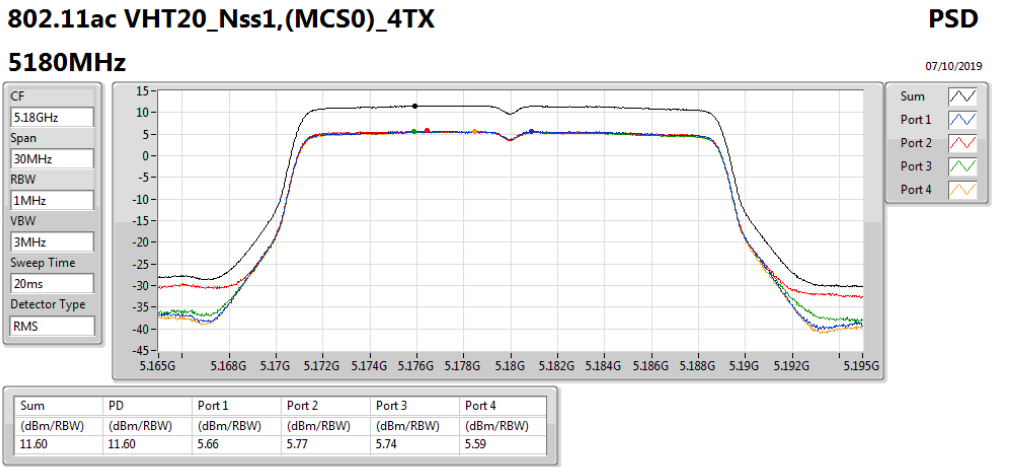
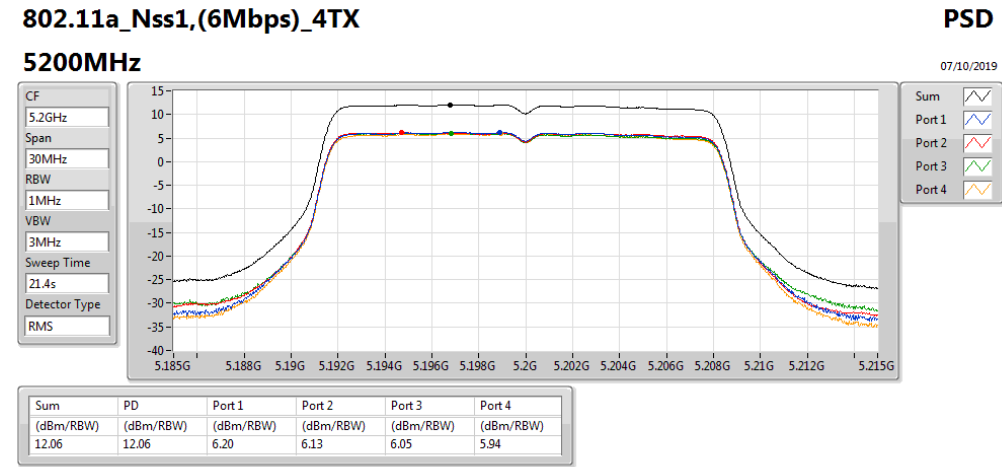
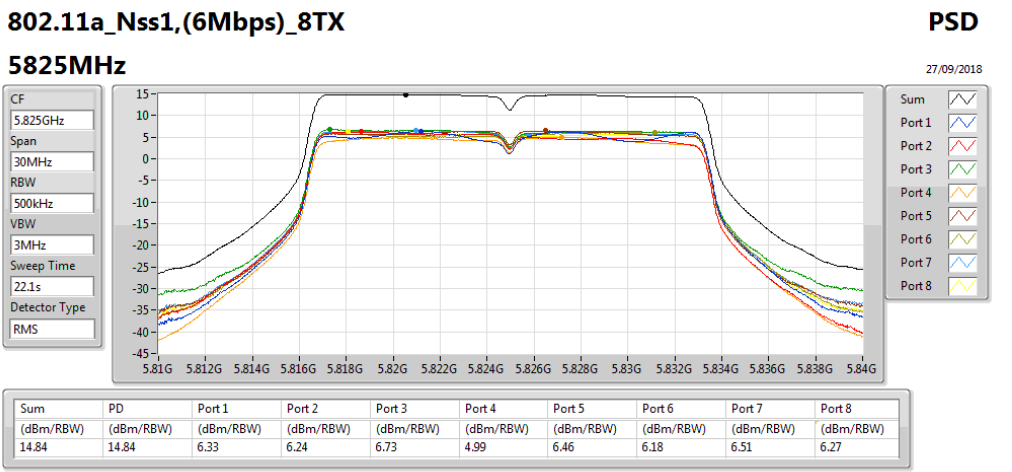
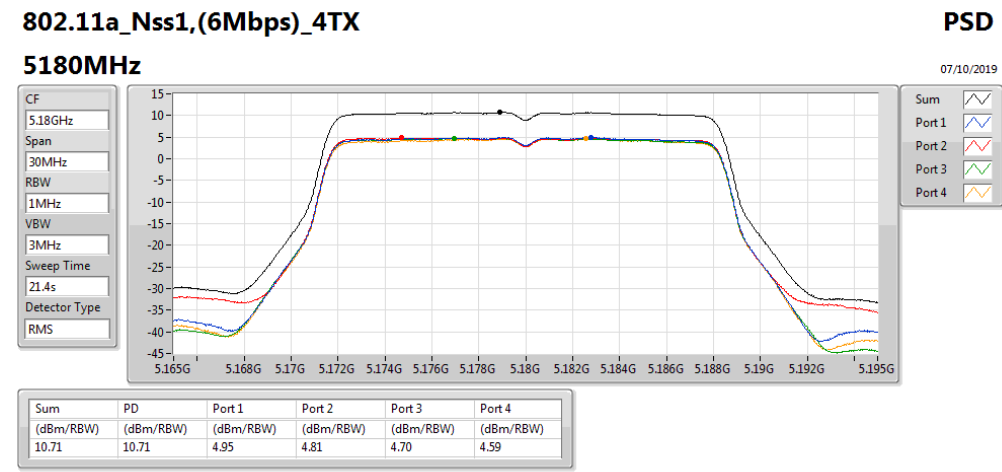
Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	13.01	22.53
802.11ac VHT20_Nss1,(MCS0)_4TX	12.45	21.97
802.11ac VHT40_Nss1,(MCS0)_4TX	8.00	17.52
802.11ac VHT80_Nss1,(MCS0)_4TX	0.42	9.94
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_8TX	15.50	28.03
802.11ac VHT20_Nss1,(MCS0)_8TX	15.11	27.64
802.11ac VHT40_Nss1,(MCS0)_8TX	12.49	25.02
802.11ac VHT80_Nss1,(MCS0)_8TX	9.44	21.97
802.11ax HEW20_Nss1,(MCS0)_8TX	15.13	27.66
802.11ax HEW40_Nss1,(MCS0)_8TX	12.29	24.82
802.11ax HEW80_Nss1,(MCS0)_8TX	9.24	21.77

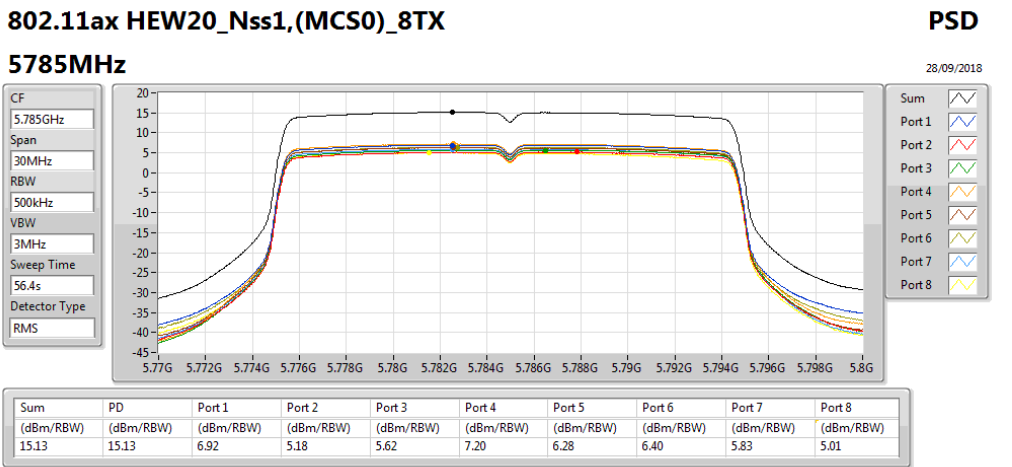
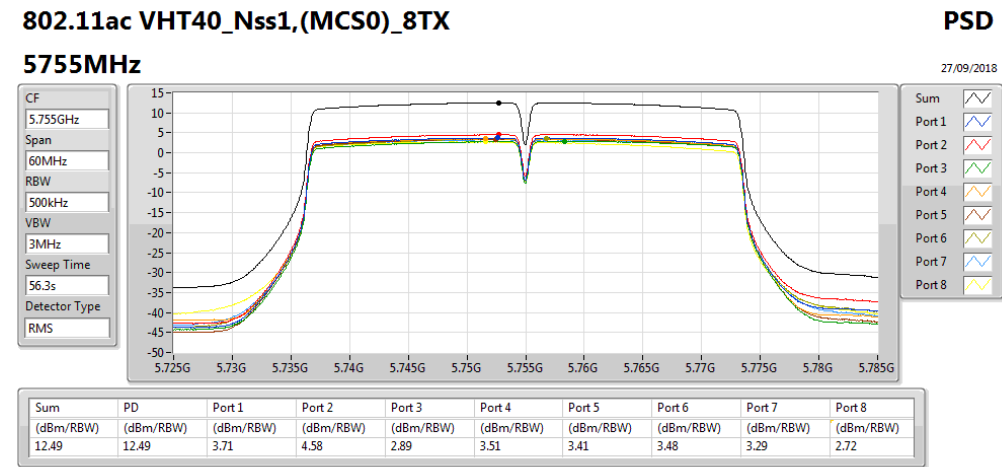
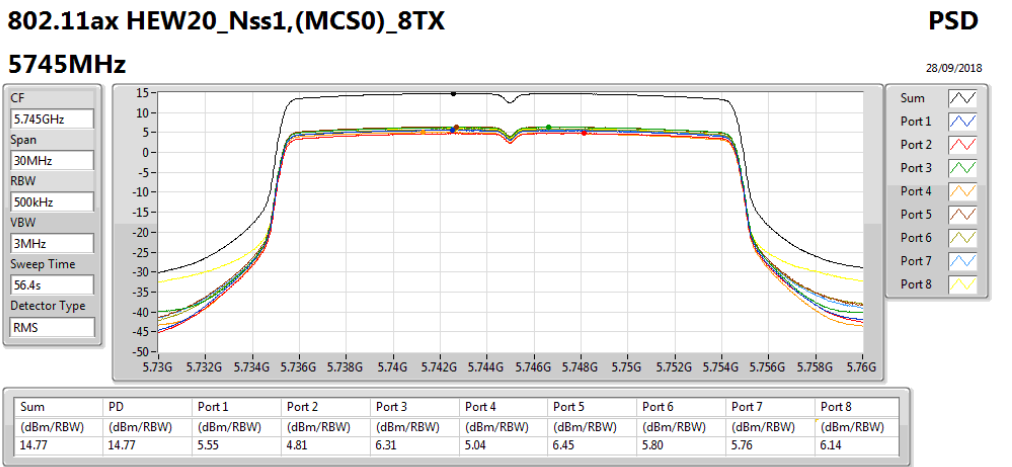
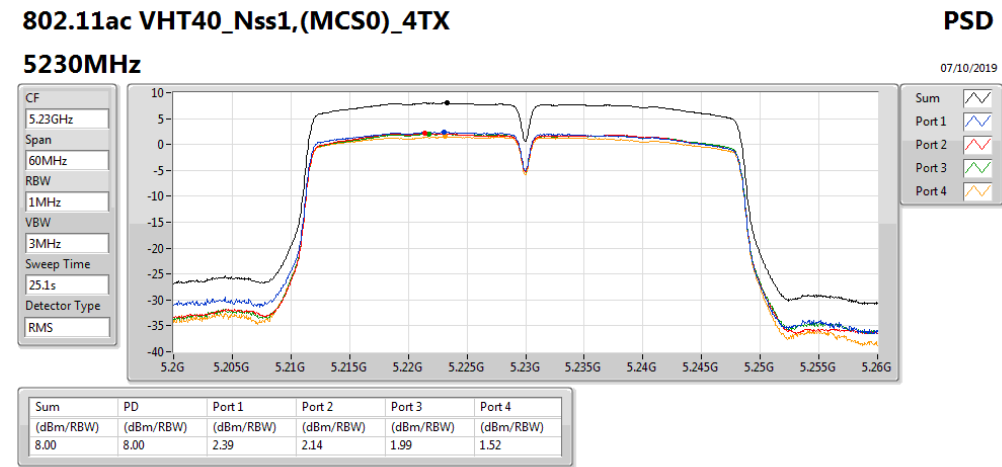
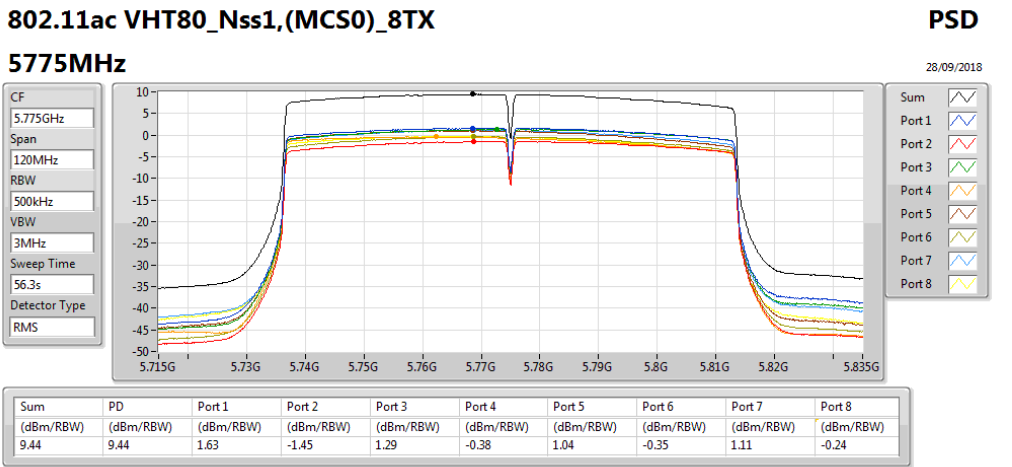
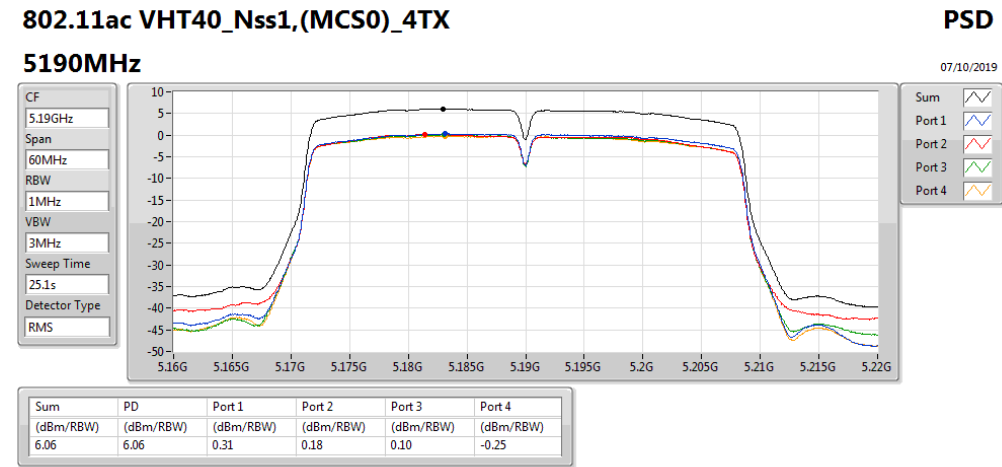
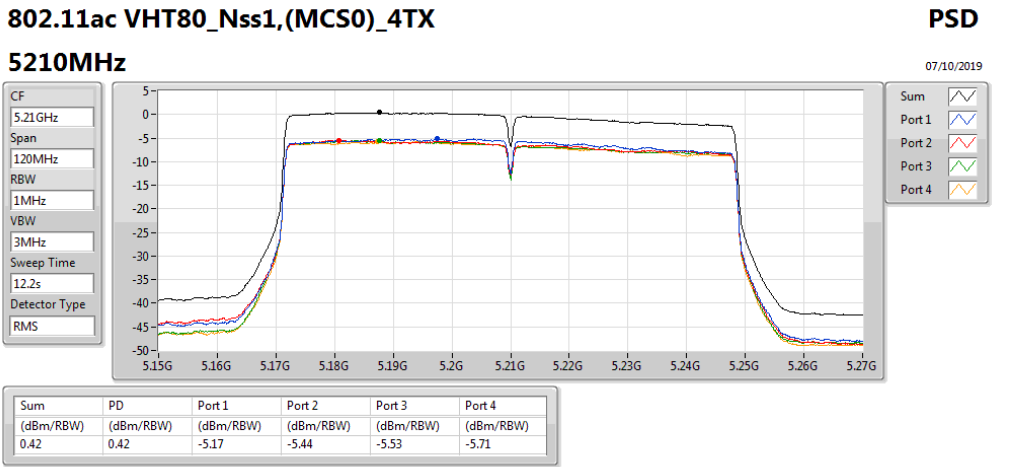
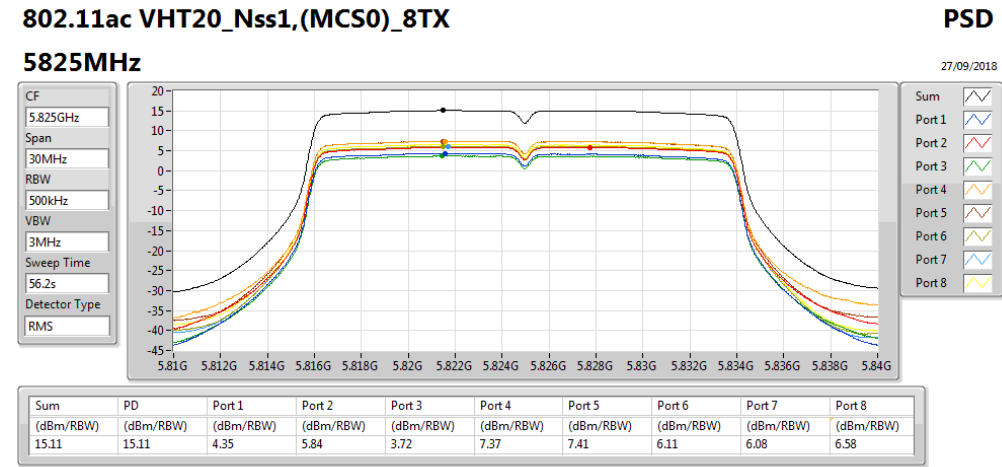
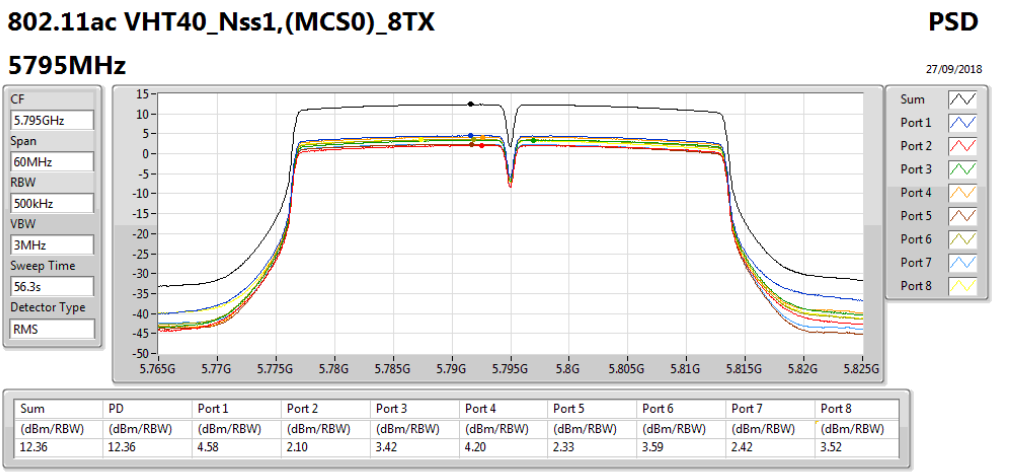
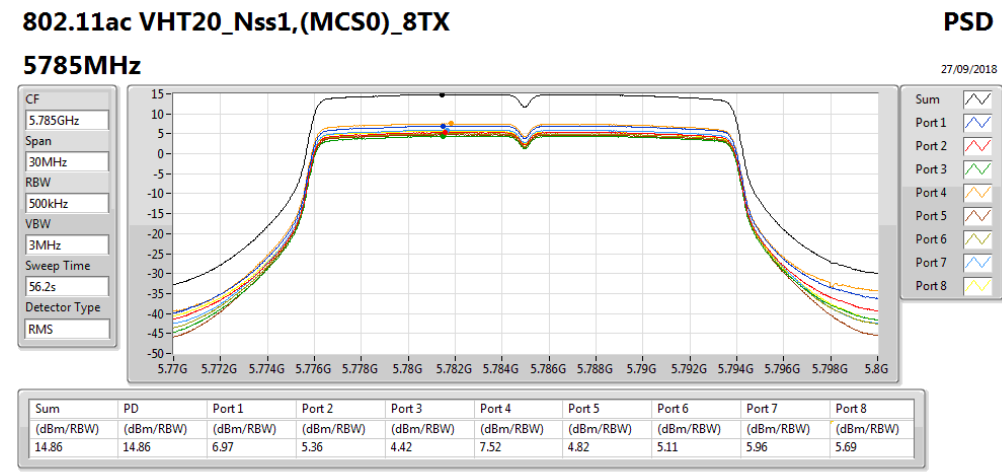
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	Port 5 (dBm/RBW)	Port 6 (dBm/RBW)	Port 7 (dBm/RBW)	Port 8 (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	9.52	4.95	4.81	4.70	4.59					10.71	13.48	20.23	23.00
5200MHz	Pass	9.52	6.20	6.13	6.05	5.94					12.06	13.48	21.58	23.00
5240MHz	Pass	9.52	6.97	7.15	6.99	6.91					13.01	13.48	22.53	23.00
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	12.53	7.23	6.08	7.48	6.34	6.81	6.56	6.44	6.52	15.35	23.47	27.88	36.00
5785MHz	Pass	12.53	7.61	7.32	4.75	8.42	6.68	6.18	6.05	6.35	15.50	23.47	28.03	36.00
5825MHz	Pass	12.53	6.33	6.24	6.73	4.99	6.46	6.18	6.51	6.27	14.84	23.47	27.37	36.00
802.11a_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	9.52	5.66	5.77	5.74	5.59					11.60	13.48	21.12	23.00
5200MHz	Pass	9.52	6.36	6.29	6.30	6.20					12.24	13.48	21.76	23.00
5240MHz	Pass	9.52	6.42	6.68	6.49	6.40					12.45	13.48	21.97	23.00
802.11ac_VHT20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	12.53	5.71	5.99	6.41	6.76	4.66	6.33	6.27	5.53	15.00	23.47	27.53	36.00
5785MHz	Pass	12.53	6.97	5.36	4.42	7.52	4.82	5.11	5.96	5.69	14.86	23.47	27.39	36.00
5825MHz	Pass	12.53	4.35	5.84	3.72	7.37	7.41	6.11	6.08	6.58	15.11	23.47	27.64	36.00
802.11ac_VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	9.52	0.31	0.18	0.10	-0.25					6.06	13.48	15.58	23.00
5230MHz	Pass	9.52	2.39	2.14	1.99	1.52					8.00	13.48	17.52	23.00
802.11ac_VHT40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	12.53	3.71	4.58	2.89	3.51	3.41	3.48	3.29	2.72	12.49	23.47	25.02	36.00
5795MHz	Pass	12.53	4.58	2.10	3.42	4.20	2.33	3.59	2.42	3.52	12.36	23.47	24.89	36.00
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	9.52	-5.17	-5.44	-5.53	-5.71					0.42	13.48	9.94	23.00
802.11ac_VHT80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	12.53	1.63	-1.45	1.29	-0.38	1.04	-0.35	1.11	-0.24	9.44	23.47	21.97	36.00
802.11ax_HEW20_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	12.53	5.55	4.81	6.31	5.04	6.45	5.80	5.76	6.14	14.77	23.47	27.30	36.00
5785MHz	Pass	12.53	6.92	5.18	5.62	7.20	6.28	6.40	5.83	5.01	15.13	23.47	27.66	36.00
5825MHz	Pass	12.53	4.80	7.08	4.68	5.19	6.85	5.94	5.19	5.99	14.82	23.47	27.35	36.00
802.11ax_HEW40_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	12.53	3.51	4.88	2.85	1.86	1.39	2.50	3.50	2.84	12.04	23.47	24.57	36.00
5795MHz	Pass	12.53	2.73	1.84	3.64	5.73	2.07	3.61	3.28	1.88	12.29	23.47	24.82	36.00
802.11ax_HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	12.53	1.28	-1.39	0.50	1.72	-1.19	-0.30	0.74	-0.35	9.24	23.47	21.77	36.00

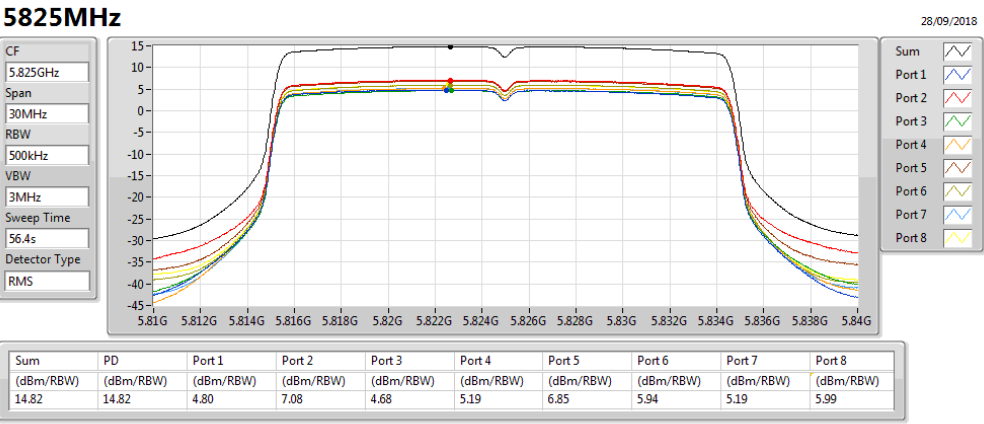
DG = Directional Gain; For UNII-1, UNII-2A and UNII-2C, **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;





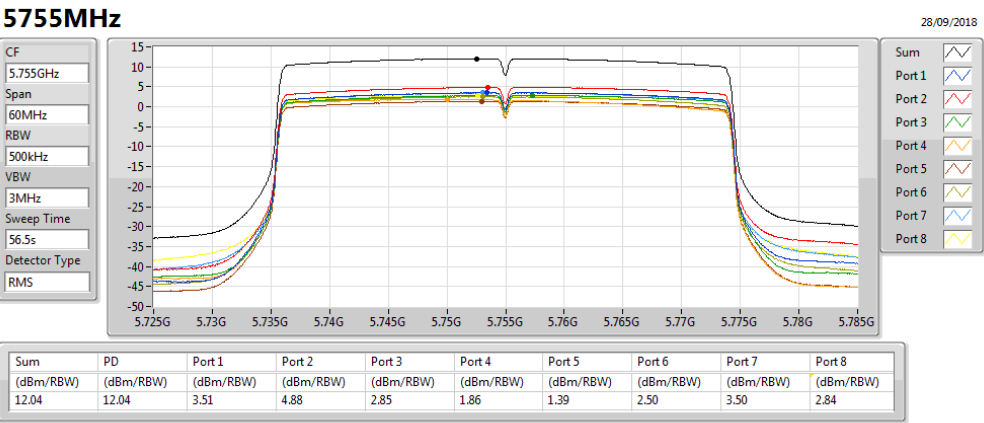
802.11ax HEW20_Nss1,(MCS0)_8TX

PSD



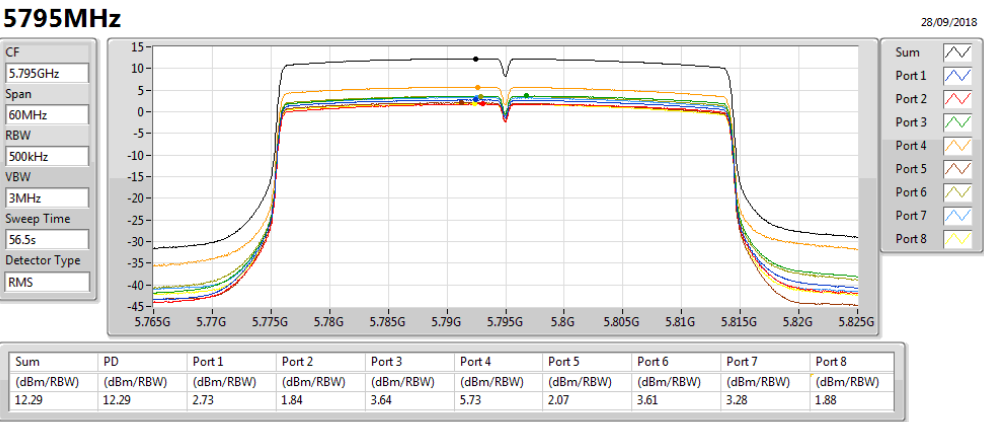
802.11ax HEW40_Nss1,(MCS0)_8TX

PSD



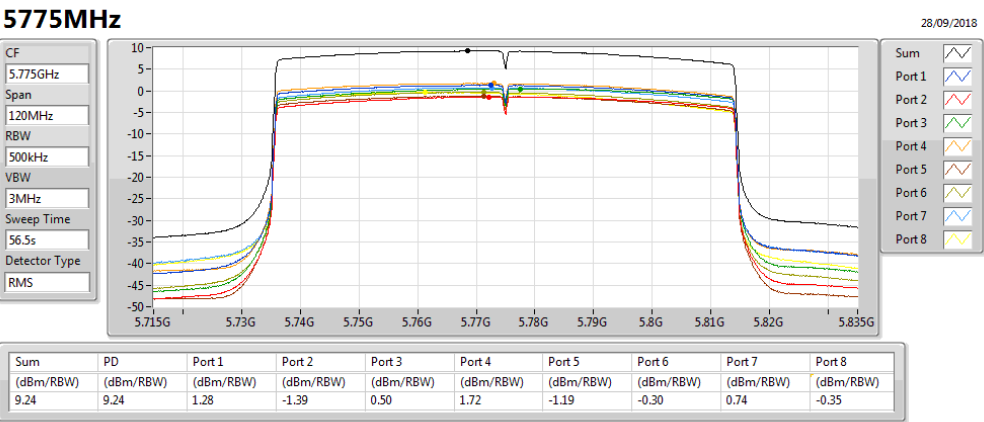
802.11ax HEW40_Nss1,(MCS0)_8TX

PSD



802.11ax HEW80_Nss1,(MCS0)_8TX

PSD





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	QP	41.64M	38.69	40.00	-1.31	3	Vertical	235	1.33	-

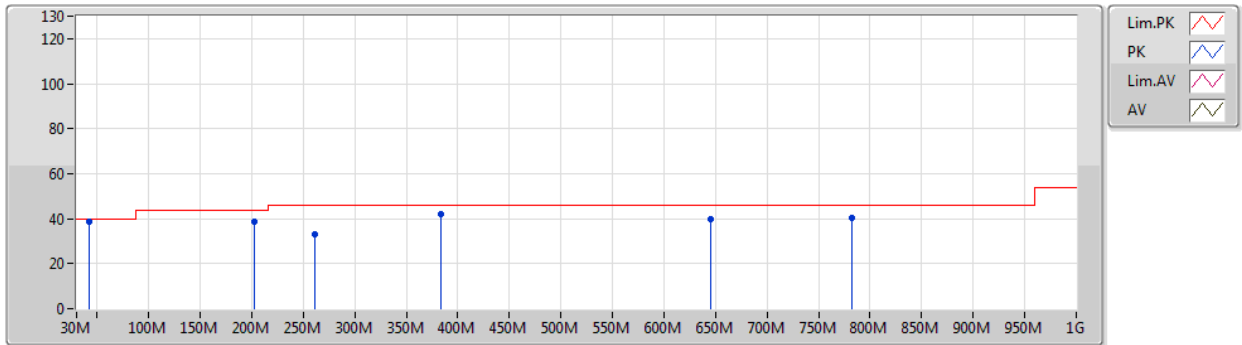
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ac_VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz_switching power supply	Pass	PK	202.66M	38.61	43.50	-4.89	3	Vertical	360	1.00	-
5210MHz_switching power supply	Pass	PK	260.86M	33.22	46.00	-12.78	3	Vertical	360	1.00	-
5210MHz_switching power supply	Pass	PK	383.08M	41.89	46.00	-4.11	3	Vertical	360	1.00	-
5210MHz_switching power supply	Pass	PK	644.98M	39.67	46.00	-6.33	3	Vertical	360	1.00	-
5210MHz_switching power supply	Pass	PK	782.72M	40.58	46.00	-5.42	3	Vertical	360	1.00	-
5210MHz_switching power supply	Pass	QP	41.64M	38.69	40.00	-1.31	3	Vertical	235	1.33	-
5210MHz_switching power supply	Pass	PK	39.7M	36.46	40.00	-3.54	3	Horizontal	0	1.00	-
5210MHz_switching power supply	Pass	PK	200.72M	39.03	43.50	-4.47	3	Horizontal	0	1.00	-
5210MHz_switching power supply	Pass	PK	258.92M	33.41	46.00	-12.59	3	Horizontal	0	1.00	-
5210MHz_switching power supply	Pass	PK	363.68M	36.09	46.00	-9.91	3	Horizontal	0	1.00	-
5210MHz_switching power supply	Pass	PK	547.98M	38.62	46.00	-7.38	3	Horizontal	0	1.00	-
5210MHz_switching power supply	Pass	PK	761.38M	40.57	46.00	-5.43	3	Horizontal	0	1.00	-

802.11ac VHT80_Nss1,(MCS0)_4TX

28/08/2019

5210MHz_switching power supply

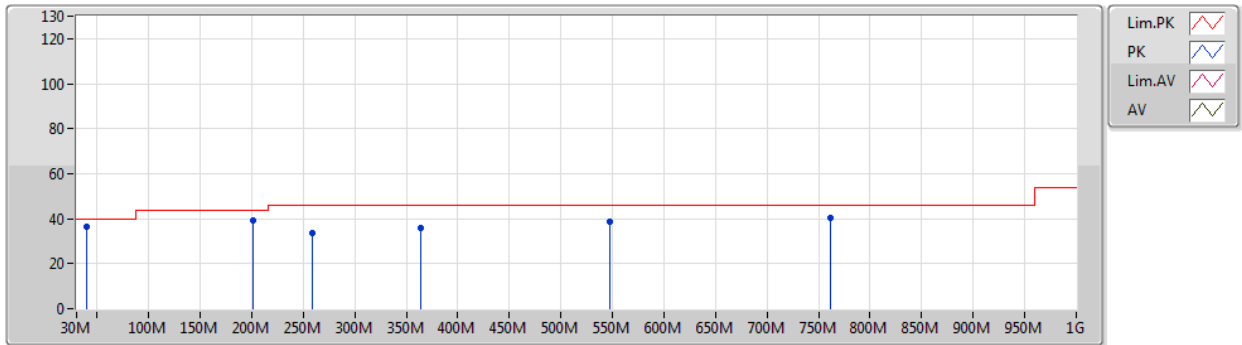


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	202.66M	38.61	43.50	-4.89	-10.58	3	Vertical	360	1.00	-	49.19	14.45	2.35	27.38
PK	260.86M	33.22	46.00	-12.78	-5.76	3	Vertical	360	1.00	-	38.98	18.66	2.76	27.18
PK	383.08M	41.89	46.00	-4.11	-4.38	3	Vertical	360	1.00	-	46.27	20.20	3.16	27.74
PK	644.98M	39.67	46.00	-6.33	-0.50	3	Vertical	360	1.00	-	40.17	24.25	3.78	28.53
PK	782.72M	40.58	46.00	-5.42	1.01	3	Vertical	360	1.00	-	39.57	25.08	4.15	28.22
QP	41.64M	38.69	40.00	-1.31	-10.28	3	Vertical	235	1.33	-	48.97	16.72	0.68	27.68

802.11ac VHT80_Nss1,(MCS0)_4TX

28/08/2019

5210MHz_switching power supply



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	39.7M	36.46	40.00	-3.54	-9.42	3	Horizontal	0	1.00	-	45.88	17.62	0.64	27.68
PK	200.72M	39.03	43.50	-4.47	-10.60	3	Horizontal	0	1.00	-	49.63	14.47	2.32	27.39
PK	258.92M	33.41	46.00	-12.59	-5.85	3	Horizontal	0	1.00	-	39.26	18.57	2.76	27.18
PK	363.68M	36.09	46.00	-9.91	-4.58	3	Horizontal	0	1.00	-	40.67	19.89	3.13	27.60
PK	547.98M	38.62	46.00	-7.38	-1.37	3	Horizontal	0	1.00	-	39.99	23.68	3.58	28.63
PK	761.38M	40.57	46.00	-5.43	0.85	3	Horizontal	0	1.00	-	39.72	25.01	4.13	28.29



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	AV	5.1468G	52.37	54.00	-1.63	3	Vertical	307	2.51	-
802.11ac VHT20_Nss1,(MCS0)_4TX	Pass	AV	5.1486G	53.96	54.00	-0.04	3	Vertical	311	2.55	-
802.11ac VHT40_Nss1,(MCS0)_4TX	Pass	AV	5.146G	53.85	54.00	-0.15	3	Vertical	313	2.48	-
802.11ac VHT80_Nss1,(MCS0)_4TX	Pass	AV	5.146G	53.71	54.00	-0.29	3	Vertical	316	2.51	-
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_8TX	Pass	AV	11.48998G	53.82	54.00	-0.18	3	Horizontal	294	1.47	-
802.11ax HEW20_Nss1,(MCS0)_8TX	Pass	AV	11.49001G	53.84	54.00	-0.16	3	Horizontal	292	1.49	-
802.11ax HEW40_Nss1,(MCS0)_8TX	Pass	PK	5.9318G	67.96	68.20	-0.24	3	Horizontal	88	1.27	-
802.11ax HEW80_Nss1,(MCS0)_8TX	Pass	PK	5.925G	67.89	68.20	-0.31	3	Horizontal	88	1.25	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1488G	52.00	54.00	-2.00	3	Vertical	296	2.50	-
5180MHz	Pass	AV	5.1768G	107.09	Inf	-Inf	3	Vertical	296	2.50	-
5180MHz	Pass	PK	5.1474G	64.58	74.00	-9.42	3	Vertical	296	2.50	-
5180MHz	Pass	PK	5.1766G	116.24	Inf	-Inf	3	Vertical	296	2.50	-
5180MHz	Pass	AV	5.136G	47.54	54.00	-6.46	3	Horizontal	195	1.50	-
5180MHz	Pass	AV	5.1766G	102.59	Inf	-Inf	3	Horizontal	195	1.50	-
5180MHz	Pass	PK	5.136G	59.17	74.00	-14.83	3	Horizontal	195	1.50	-
5180MHz	Pass	PK	5.1766G	111.77	Inf	-Inf	3	Horizontal	195	1.50	-
5180MHz	Pass	AV	15.54264G	46.57	54.00	-7.43	3	Vertical	209	1.00	-
5180MHz	Pass	PK	10.3555G	54.89	68.20	-13.31	3	Vertical	51	1.00	-
5180MHz	Pass	PK	15.54412G	59.44	74.00	-14.56	3	Vertical	209	1.00	-
5180MHz	Pass	AV	15.5445G	47.18	54.00	-6.82	3	Horizontal	120	1.29	-
5180MHz	Pass	PK	10.35966G	55.13	68.20	-13.07	3	Horizontal	118	1.58	-
5180MHz	Pass	PK	15.54414G	58.93	74.00	-15.07	3	Horizontal	120	1.29	-
5200MHz	Pass	AV	5.1468G	52.37	54.00	-1.63	3	Vertical	307	2.51	-
5200MHz	Pass	AV	5.1952G	107.80	Inf	-Inf	3	Vertical	307	2.51	-
5200MHz	Pass	PK	5.1464G	65.10	74.00	-8.90	3	Vertical	307	2.51	-
5200MHz	Pass	PK	5.1956G	116.44	Inf	-Inf	3	Vertical	307	2.51	-
5200MHz	Pass	AV	5.1484G	49.76	54.00	-4.24	3	Horizontal	191	1.50	-
5200MHz	Pass	AV	5.1968G	104.62	Inf	-Inf	3	Horizontal	191	1.50	-
5200MHz	Pass	PK	5.1488G	60.53	74.00	-13.47	3	Horizontal	191	1.50	-
5200MHz	Pass	PK	5.1968G	113.65	Inf	-Inf	3	Horizontal	191	1.50	-
5200MHz	Pass	AV	15.60156G	47.94	54.00	-6.06	3	Vertical	59	1.78	-
5200MHz	Pass	PK	10.39644G	56.21	68.20	-11.99	3	Vertical	57	1.00	-
5200MHz	Pass	PK	15.601G	60.26	74.00	-13.74	3	Vertical	59	1.78	-
5200MHz	Pass	AV	15.60258G	51.12	54.00	-2.88	3	Horizontal	134	1.45	-
5200MHz	Pass	PK	10.39546G	56.13	68.20	-12.07	3	Horizontal	118	1.50	-
5200MHz	Pass	PK	15.6042G	63.51	74.00	-10.49	3	Horizontal	134	1.45	-
5240MHz	Pass	AV	5.15G	51.80	54.00	-2.20	3	Vertical	298	2.51	-
5240MHz	Pass	AV	5.237G	110.40	Inf	-Inf	3	Vertical	298	2.51	-
5240MHz	Pass	AV	5.3504G	45.16	54.00	-8.84	3	Vertical	298	2.51	-
5240MHz	Pass	PK	5.1452G	63.11	74.00	-10.89	3	Vertical	298	2.51	-
5240MHz	Pass	PK	5.237G	119.54	Inf	-Inf	3	Vertical	298	2.51	-
5240MHz	Pass	PK	5.3702G	56.77	74.00	-17.23	3	Vertical	298	2.51	-
5240MHz	Pass	AV	5.15G	50.27	54.00	-3.73	3	Horizontal	188	1.50	-
5240MHz	Pass	AV	5.237G	106.36	Inf	-Inf	3	Horizontal	188	1.50	-
5240MHz	Pass	AV	5.3504G	44.98	54.00	-9.02	3	Horizontal	188	1.50	-
5240MHz	Pass	PK	5.1452G	62.44	74.00	-11.56	3	Horizontal	188	1.50	-
5240MHz	Pass	PK	5.2376G	115.36	Inf	-Inf	3	Horizontal	188	1.50	-
5240MHz	Pass	PK	5.354G	55.98	74.00	-18.02	3	Horizontal	188	1.50	-
5240MHz	Pass	AV	15.7193G	50.27	54.00	-3.73	3	Vertical	18	1.47	-
5240MHz	Pass	PK	10.47634G	59.29	68.20	-8.91	3	Vertical	51	1.00	-
5240MHz	Pass	PK	15.7205G	62.77	74.00	-11.23	3	Vertical	18	1.47	-
5240MHz	Pass	AV	15.71506G	51.05	54.00	-2.95	3	Horizontal	136	2.18	-
5240MHz	Pass	PK	10.4765G	60.45	68.20	-7.75	3	Horizontal	107	1.50	-
5240MHz	Pass	PK	15.7151G	63.56	74.00	-10.44	3	Horizontal	136	2.18	-
802.11ac_VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5180MHz	Pass	AV	5.1486G	53.96	54.00	-0.04	3	Vertical	311	2.55	-
5180MHz	Pass	AV	5.1768G	107.01	Inf	-Inf	3	Vertical	311	2.55	-
5180MHz	Pass	PK	5.1494G	67.76	74.00	-6.24	3	Vertical	311	2.55	-
5180MHz	Pass	PK	5.1762G	118.20	Inf	-Inf	3	Vertical	311	2.55	-
5180MHz	Pass	AV	5.1374G	48.68	54.00	-5.32	3	Horizontal	209	1.70	-
5180MHz	Pass	AV	5.1766G	103.49	Inf	-Inf	3	Horizontal	209	1.70	-
5180MHz	Pass	PK	5.1372G	63.95	74.00	-10.05	3	Horizontal	209	1.70	-
5180MHz	Pass	PK	5.1762G	114.58	Inf	-Inf	3	Horizontal	209	1.70	-
5180MHz	Pass	AV	15.54342G	45.60	54.00	-8.40	3	Vertical	109	1.34	-
5180MHz	Pass	PK	10.35388G	54.75	68.20	-13.45	3	Vertical	68	1.01	-
5180MHz	Pass	PK	15.5427G	59.48	74.00	-14.52	3	Vertical	109	1.34	-
5180MHz	Pass	AV	15.54492G	46.14	54.00	-7.86	3	Horizontal	119	1.40	-
5180MHz	Pass	PK	10.35382G	57.12	68.20	-11.08	3	Horizontal	106	1.62	-
5180MHz	Pass	PK	15.54444G	59.79	74.00	-14.21	3	Horizontal	119	1.40	-
5200MHz	Pass	AV	5.1484G	52.30	54.00	-1.70	3	Vertical	314	2.44	-
5200MHz	Pass	AV	5.1956G	107.75	Inf	-Inf	3	Vertical	314	2.44	-
5200MHz	Pass	PK	5.1472G	66.35	74.00	-7.65	3	Vertical	314	2.44	-
5200MHz	Pass	PK	5.1956G	119.07	Inf	-Inf	3	Vertical	314	2.44	-
5200MHz	Pass	AV	5.1484G	49.37	54.00	-4.63	3	Horizontal	209	1.76	-
5200MHz	Pass	AV	5.1968G	104.37	Inf	-Inf	3	Horizontal	209	1.76	-
5200MHz	Pass	PK	5.1476G	62.23	74.00	-11.77	3	Horizontal	209	1.76	-
5200MHz	Pass	PK	5.1964G	115.72	Inf	-Inf	3	Horizontal	209	1.76	-
5200MHz	Pass	AV	15.60312G	46.35	54.00	-7.65	3	Vertical	69	2.50	-
5200MHz	Pass	PK	10.39376G	58.59	68.20	-9.61	3	Vertical	63	1.48	-
5200MHz	Pass	PK	15.60462G	60.14	74.00	-13.86	3	Vertical	69	2.50	-
5200MHz	Pass	AV	15.60324G	49.39	54.00	-4.61	3	Horizontal	133	1.40	-
5200MHz	Pass	PK	10.39382G	60.78	68.20	-7.42	3	Horizontal	128	1.47	-
5200MHz	Pass	PK	15.6066G	63.48	74.00	-10.52	3	Horizontal	133	1.40	-
5240MHz	Pass	AV	5.15G	51.16	54.00	-2.84	3	Vertical	315	2.52	-
5240MHz	Pass	AV	5.234G	108.95	Inf	-Inf	3	Vertical	315	2.52	-
5240MHz	Pass	AV	5.35G	44.60	54.00	-9.40	3	Vertical	315	2.52	-
5240MHz	Pass	PK	5.15G	65.11	74.00	-8.89	3	Vertical	315	2.52	-
5240MHz	Pass	PK	5.234G	120.32	Inf	-Inf	3	Vertical	315	2.52	-
5240MHz	Pass	PK	5.3504G	56.75	74.00	-17.25	3	Vertical	315	2.52	-
5240MHz	Pass	AV	5.1464G	49.77	54.00	-4.23	3	Horizontal	339	2.08	-
5240MHz	Pass	AV	5.2466G	106.72	Inf	-Inf	3	Horizontal	339	2.08	-
5240MHz	Pass	AV	5.35G	43.58	54.00	-10.42	3	Horizontal	339	2.08	-
5240MHz	Pass	PK	5.1476G	64.91	74.00	-9.09	3	Horizontal	339	2.08	-
5240MHz	Pass	PK	5.2478G	118.42	Inf	-Inf	3	Horizontal	339	2.08	-
5240MHz	Pass	PK	5.3804G	55.78	74.00	-18.22	3	Horizontal	339	2.08	-
5240MHz	Pass	AV	15.72756G	50.16	54.00	-3.84	3	Vertical	55	1.86	-
5240MHz	Pass	PK	10.47232G	59.09	68.20	-9.11	3	Vertical	66	1.45	-
5240MHz	Pass	PK	15.7263G	63.81	74.00	-10.19	3	Vertical	55	1.86	-
5240MHz	Pass	AV	15.71646G	51.81	54.00	-2.19	3	Horizontal	150	1.36	-
5240MHz	Pass	PK	10.4722G	61.53	68.20	-6.67	3	Horizontal	125	1.46	-
5240MHz	Pass	PK	15.71628G	65.40	74.00	-8.60	3	Horizontal	150	1.36	-
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.146G	53.85	54.00	-0.15	3	Vertical	313	2.48	-
5190MHz	Pass	AV	5.1868G	102.01	Inf	-Inf	3	Vertical	313	2.48	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5190MHz	Pass	PK	5.1456G	67.70	74.00	-6.30	3	Vertical	313	2.48	-
5190MHz	Pass	PK	5.1864G	112.12	Inf	-Inf	3	Vertical	313	2.48	-
5190MHz	Pass	AV	5.1468G	50.87	54.00	-3.13	3	Horizontal	209	1.69	-
5190MHz	Pass	AV	5.1864G	98.23	Inf	-Inf	3	Horizontal	209	1.69	-
5190MHz	Pass	PK	5.1456G	65.75	74.00	-8.25	3	Horizontal	209	1.69	-
5190MHz	Pass	PK	5.186G	108.20	Inf	-Inf	3	Horizontal	209	1.69	-
5190MHz	Pass	AV	15.5592G	45.52	54.00	-8.48	3	Vertical	0	1.56	-
5190MHz	Pass	PK	10.37178G	52.79	68.20	-15.41	3	Vertical	64	1.03	-
5190MHz	Pass	PK	15.56196G	58.46	74.00	-15.54	3	Vertical	0	1.56	-
5190MHz	Pass	AV	15.55506G	45.58	54.00	-8.42	3	Horizontal	157	2.21	-
5190MHz	Pass	PK	10.37172G	53.44	68.20	-14.76	3	Horizontal	129	1.48	-
5190MHz	Pass	PK	15.56718G	59.01	74.00	-14.99	3	Horizontal	157	2.21	-
5230MHz	Pass	AV	5.1456G	53.10	54.00	-0.90	3	Vertical	318	2.65	-
5230MHz	Pass	AV	5.2264G	103.54	Inf	-Inf	3	Vertical	318	2.65	-
5230MHz	Pass	PK	5.146G	69.60	74.00	-4.40	3	Vertical	318	2.65	-
5230MHz	Pass	PK	5.2256G	113.30	Inf	-Inf	3	Vertical	318	2.65	-
5230MHz	Pass	AV	5.1464G	51.51	54.00	-2.49	3	Horizontal	209	1.74	-
5230MHz	Pass	AV	5.2272G	100.64	Inf	-Inf	3	Horizontal	209	1.74	-
5230MHz	Pass	PK	5.1456G	67.36	74.00	-6.64	3	Horizontal	209	1.74	-
5230MHz	Pass	PK	5.2272G	110.44	Inf	-Inf	3	Horizontal	209	1.74	-
5230MHz	Pass	AV	15.68874G	46.60	54.00	-7.40	3	Vertical	55	1.48	-
5230MHz	Pass	PK	10.45292G	53.38	68.20	-14.82	3	Vertical	60	1.42	-
5230MHz	Pass	PK	15.68808G	58.89	74.00	-15.11	3	Vertical	55	1.48	-
5230MHz	Pass	AV	15.69264G	46.75	54.00	-7.25	3	Horizontal	132	1.49	-
5230MHz	Pass	PK	10.45802G	53.37	68.20	-14.83	3	Horizontal	65	1.64	-
5230MHz	Pass	PK	15.6927G	59.69	74.00	-14.31	3	Horizontal	132	1.49	-
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.146G	53.71	54.00	-0.29	3	Vertical	316	2.51	-
5210MHz	Pass	AV	5.186G	96.18	Inf	-Inf	3	Vertical	316	2.51	-
5210MHz	Pass	AV	5.353G	43.67	54.00	-10.33	3	Vertical	316	2.51	-
5210MHz	Pass	PK	5.145G	65.71	74.00	-8.29	3	Vertical	316	2.51	-
5210MHz	Pass	PK	5.186G	105.59	Inf	-Inf	3	Vertical	316	2.51	-
5210MHz	Pass	PK	5.447G	55.55	74.00	-18.45	3	Vertical	316	2.51	-
5210MHz	Pass	AV	5.145G	51.64	54.00	-2.36	3	Horizontal	212	1.76	-
5210MHz	Pass	AV	5.187G	92.45	Inf	-Inf	3	Horizontal	212	1.76	-
5210MHz	Pass	AV	5.351G	43.48	54.00	-10.52	3	Horizontal	212	1.76	-
5210MHz	Pass	PK	5.146G	64.07	74.00	-9.93	3	Horizontal	212	1.76	-
5210MHz	Pass	PK	5.187G	101.86	Inf	-Inf	3	Horizontal	212	1.76	-
5210MHz	Pass	PK	5.395G	55.54	74.00	-18.46	3	Horizontal	212	1.76	-
5210MHz	Pass	AV	15.61896G	44.85	54.00	-9.15	3	Vertical	272	1.49	-
5210MHz	Pass	PK	10.405G	53.21	68.20	-14.99	3	Vertical	355	2.86	-
5210MHz	Pass	PK	15.62238G	58.30	74.00	-15.70	3	Vertical	272	1.49	-
5210MHz	Pass	AV	15.62268G	44.82	54.00	-9.18	3	Horizontal	231	2.83	-
5210MHz	Pass	PK	10.42558G	52.57	68.20	-15.63	3	Horizontal	245	1.37	-
5210MHz	Pass	PK	15.64398G	57.68	74.00	-16.32	3	Horizontal	231	2.83	-
802.11a_Nss1,(6Mbps)_8TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7402G	112.45	Inf	-Inf	3	Vertical	112	1.50	-
5745MHz	Pass	PK	5.6082G	60.07	68.20	-8.13	3	Vertical	112	1.50	-
5745MHz	Pass	PK	5.7402G	121.51	Inf	-Inf	3	Vertical	112	1.50	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	5.9634G	60.96	68.20	-7.24	3	Vertical	112	1.50	-
5745MHz	Pass	AV	5.7366G	112.95	Inf	-Inf	3	Horizontal	94	1.29	-
5745MHz	Pass	PK	5.6454G	61.12	68.20	-7.08	3	Horizontal	94	1.29	-
5745MHz	Pass	PK	5.7378G	122.78	Inf	-Inf	3	Horizontal	94	1.29	-
5745MHz	Pass	PK	5.9778G	60.58	68.20	-7.62	3	Horizontal	94	1.29	-
5745MHz	Pass	AV	11.48982G	49.24	54.00	-4.76	3	Vertical	228	1.54	-
5745MHz	Pass	PK	11.48716G	60.86	74.00	-13.14	3	Vertical	228	1.54	-
5745MHz	Pass	PK	17.24328G	65.15	68.20	-3.05	3	Vertical	335	1.47	-
5745MHz	Pass	AV	11.48998G	53.82	54.00	-0.18	3	Horizontal	294	1.47	-
5745MHz	Pass	PK	11.48985G	62.29	74.00	-11.71	3	Horizontal	294	1.47	-
5745MHz	Pass	PK	17.23842G	67.70	68.20	-0.50	3	Horizontal	307	1.50	-
5785MHz	Pass	AV	5.7826G	113.30	Inf	-Inf	3	Vertical	35	1.08	-
5785MHz	Pass	PK	5.5906G	60.29	68.20	-7.91	3	Vertical	35	1.08	-
5785MHz	Pass	PK	5.7838G	122.15	Inf	-Inf	3	Vertical	35	1.08	-
5785MHz	Pass	PK	5.9338G	60.53	68.20	-7.67	3	Vertical	35	1.08	-
5785MHz	Pass	AV	5.7886G	112.89	Inf	-Inf	3	Horizontal	97	1.32	-
5785MHz	Pass	PK	5.605G	60.85	68.20	-7.35	3	Horizontal	97	1.32	-
5785MHz	Pass	PK	5.7886G	121.82	Inf	-Inf	3	Horizontal	97	1.32	-
5785MHz	Pass	PK	5.9422G	60.60	68.20	-7.60	3	Horizontal	97	1.32	-
5785MHz	Pass	AV	11.57204G	48.43	54.00	-5.57	3	Vertical	350	1.34	-
5785MHz	Pass	PK	11.58398G	60.82	74.00	-13.18	3	Vertical	350	1.34	-
5785MHz	Pass	PK	17.34582G	67.24	68.20	-0.96	3	Vertical	334	1.44	-
5785MHz	Pass	AV	11.57G	52.46	54.00	-1.54	3	Horizontal	297	1.48	-
5785MHz	Pass	PK	11.57012G	61.37	74.00	-12.63	3	Horizontal	297	1.48	-
5785MHz	Pass	PK	17.34858G	67.55	68.20	-0.65	3	Horizontal	110	1.30	-
5825MHz	Pass	AV	5.8238G	111.00	Inf	-Inf	3	Vertical	279	2.49	-
5825MHz	Pass	PK	5.5382G	60.73	68.20	-7.47	3	Vertical	279	2.49	-
5825MHz	Pass	PK	5.8238G	121.27	Inf	-Inf	3	Vertical	279	2.49	-
5825MHz	Pass	PK	5.939G	61.74	68.20	-6.46	3	Vertical	279	2.49	-
5825MHz	Pass	AV	5.8274G	112.70	Inf	-Inf	3	Horizontal	93	1.24	-
5825MHz	Pass	PK	5.6342G	60.44	68.20	-7.76	3	Horizontal	93	1.24	-
5825MHz	Pass	PK	5.8286G	123.46	Inf	-Inf	3	Horizontal	93	1.24	-
5825MHz	Pass	PK	5.939G	60.53	68.20	-7.67	3	Horizontal	93	1.24	-
5825MHz	Pass	AV	11.65198G	49.57	54.00	-4.43	3	Vertical	350	1.26	-
5825MHz	Pass	PK	11.65174G	62.57	74.00	-11.43	3	Vertical	350	1.26	-
5825MHz	Pass	PK	17.48748G	67.06	68.20	-1.14	3	Vertical	201	1.74	-
5825MHz	Pass	AV	11.65006G	51.27	54.00	-2.73	3	Horizontal	294	1.43	-
5825MHz	Pass	PK	11.65012G	61.71	74.00	-12.29	3	Horizontal	294	1.43	-
5825MHz	Pass	PK	17.47602G	67.79	68.20	-0.41	3	Horizontal	302	1.50	-
802.11ax HEW20_Nss1,(MCS0).8TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.739G	113.16	Inf	-Inf	3	Vertical	360	2.41	-
5745MHz	Pass	PK	5.6454G	61.24	68.20	-6.96	3	Vertical	360	2.41	-
5745MHz	Pass	PK	5.7378G	122.55	Inf	-Inf	3	Vertical	360	2.41	-
5745MHz	Pass	PK	5.9658G	60.60	68.20	-7.60	3	Vertical	360	2.41	-
5745MHz	Pass	AV	5.7498G	113.52	Inf	-Inf	3	Horizontal	83	1.29	-
5745MHz	Pass	PK	5.565G	61.32	68.20	-6.88	3	Horizontal	83	1.29	-
5745MHz	Pass	PK	5.7486G	122.96	Inf	-Inf	3	Horizontal	83	1.29	-
5745MHz	Pass	PK	5.9406G	60.61	68.20	-7.59	3	Horizontal	83	1.29	-
5745MHz	Pass	AV	11.48994G	48.20	54.00	-5.80	3	Vertical	144	1.50	-

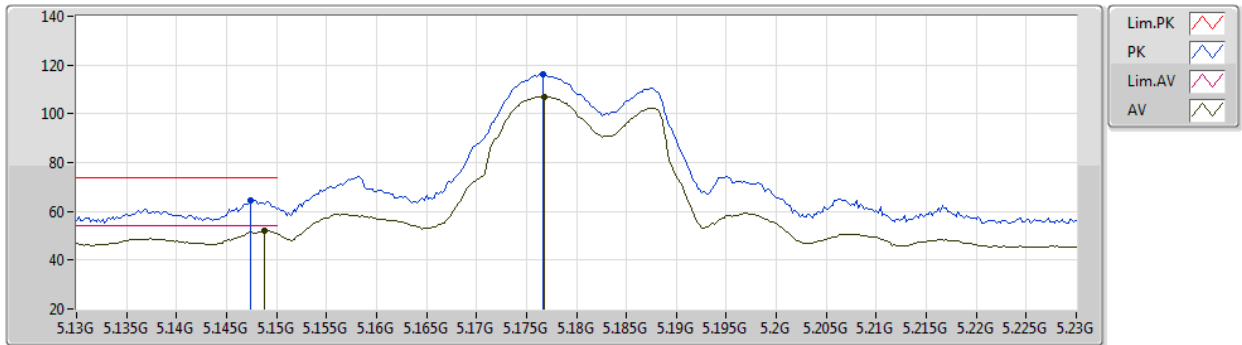
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5745MHz	Pass	PK	11.49048G	60.36	74.00	-13.64	3	Vertical	144	1.50	-
5745MHz	Pass	PK	17.24016G	65.67	68.20	-2.53	3	Vertical	325	1.46	-
5745MHz	Pass	AV	11.49001G	53.84	54.00	-0.16	3	Horizontal	292	1.49	-
5745MHz	Pass	PK	11.49G	62.90	74.00	-11.10	3	Horizontal	292	1.49	-
5745MHz	Pass	PK	17.23314G	65.76	68.20	-2.44	3	Horizontal	301	1.36	-
5785MHz	Pass	AV	5.791G	114.27	Inf	-Inf	3	Vertical	56	2.90	-
5785MHz	Pass	PK	5.599G	60.62	68.20	-7.58	3	Vertical	56	2.90	-
5785MHz	Pass	PK	5.7898G	126.92	Inf	-Inf	3	Vertical	56	2.90	-
5785MHz	Pass	PK	5.9626G	60.74	68.20	-7.46	3	Vertical	56	2.90	-
5785MHz	Pass	AV	5.7862G	111.67	Inf	-Inf	3	Horizontal	217	1.31	-
5785MHz	Pass	PK	5.5114G	60.62	68.20	-7.58	3	Horizontal	217	1.31	-
5785MHz	Pass	PK	5.7874G	122.55	Inf	-Inf	3	Horizontal	217	1.31	-
5785MHz	Pass	PK	5.9326G	60.75	68.20	-7.45	3	Horizontal	217	1.31	-
5785MHz	Pass	AV	11.57G	47.73	54.00	-6.27	3	Vertical	0	1.46	-
5785MHz	Pass	PK	11.55998G	60.78	74.00	-13.22	3	Vertical	0	1.46	-
5785MHz	Pass	PK	17.3499G	67.02	68.20	-1.18	3	Vertical	16	1.06	-
5785MHz	Pass	AV	11.57G	52.00	54.00	-2.00	3	Horizontal	297	1.50	-
5785MHz	Pass	PK	11.571G	61.25	74.00	-12.75	3	Horizontal	297	1.50	-
5785MHz	Pass	PK	17.35384G	67.35	68.20	-0.85	3	Horizontal	112	1.46	-
5825MHz	Pass	AV	5.819G	113.07	Inf	-Inf	3	Vertical	277	2.41	-
5825MHz	Pass	PK	5.627G	61.10	68.20	-7.10	3	Vertical	277	2.41	-
5825MHz	Pass	PK	5.819G	124.20	Inf	-Inf	3	Vertical	277	2.41	-
5825MHz	Pass	PK	5.927G	60.98	68.20	-7.22	3	Vertical	277	2.41	-
5825MHz	Pass	AV	5.8226G	111.84	Inf	-Inf	3	Horizontal	56	2.57	-
5825MHz	Pass	PK	5.5478G	60.26	68.20	-7.94	3	Horizontal	56	2.57	-
5825MHz	Pass	PK	5.8238G	123.15	Inf	-Inf	3	Horizontal	56	2.57	-
5825MHz	Pass	PK	5.969G	60.85	68.20	-7.35	3	Horizontal	56	2.57	-
5825MHz	Pass	AV	11.65006G	48.24	54.00	-5.76	3	Vertical	358	1.26	-
5825MHz	Pass	PK	11.66278G	61.28	74.00	-12.72	3	Vertical	358	1.26	-
5825MHz	Pass	PK	17.47086G	67.15	68.20	-1.05	3	Vertical	196	1.00	-
5825MHz	Pass	AV	11.65006G	51.93	54.00	-2.07	3	Horizontal	294	1.48	-
5825MHz	Pass	PK	11.65024G	61.20	74.00	-12.80	3	Horizontal	294	1.48	-
5825MHz	Pass	PK	17.4716G	67.98	68.20	-0.22	3	Horizontal	27	1.49	-
802.11ax HEW40_Nss1,(MCS0).8TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	5.767G	108.64	Inf	-Inf	3	Vertical	196	1.50	-
5755MHz	Pass	PK	5.6434G	62.51	68.20	-5.69	3	Vertical	196	1.50	-
5755MHz	Pass	PK	5.7658G	120.11	Inf	-Inf	3	Vertical	196	1.50	-
5755MHz	Pass	PK	5.9302G	61.12	68.20	-7.08	3	Vertical	196	1.50	-
5755MHz	Pass	AV	5.749G	112.49	Inf	-Inf	3	Horizontal	85	1.36	-
5755MHz	Pass	PK	5.6446G	67.81	68.20	-0.39	3	Horizontal	85	1.36	-
5755MHz	Pass	PK	5.7478G	122.62	Inf	-Inf	3	Horizontal	85	1.36	-
5755MHz	Pass	PK	5.9242G	62.27	68.79	-6.52	3	Horizontal	85	1.36	-
5755MHz	Pass	AV	11.51004G	49.50	54.00	-4.50	3	Vertical	227	2.45	-
5755MHz	Pass	PK	11.50991G	61.65	74.00	-12.35	3	Vertical	227	2.45	-
5755MHz	Pass	PK	17.26676G	66.31	68.20	-1.89	3	Vertical	200	1.50	-
5755MHz	Pass	AV	11.51001G	52.94	54.00	-1.06	3	Horizontal	290	1.45	-
5755MHz	Pass	PK	11.5102G	62.58	74.00	-11.42	3	Horizontal	290	1.45	-
5755MHz	Pass	PK	17.26668G	67.11	68.20	-1.09	3	Horizontal	16	1.00	-
5795MHz	Pass	AV	5.7974G	112.13	Inf	-Inf	3	Vertical	23	1.93	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	PK	5.6042G	61.32	68.20	-6.88	3	Vertical	23	1.93	-
5795MHz	Pass	PK	5.7962G	123.84	Inf	-Inf	3	Vertical	23	1.93	-
5795MHz	Pass	PK	5.9342G	64.15	68.20	-4.05	3	Vertical	23	1.93	-
5795MHz	Pass	AV	5.7914G	112.58	Inf	-Inf	3	Horizontal	88	1.27	-
5795MHz	Pass	PK	5.6462G	63.28	68.20	-4.92	3	Horizontal	88	1.27	-
5795MHz	Pass	PK	5.7902G	124.54	Inf	-Inf	3	Horizontal	88	1.27	-
5795MHz	Pass	PK	5.9318G	67.96	68.20	-0.24	3	Horizontal	88	1.27	-
5795MHz	Pass	AV	11.59011G	47.88	54.00	-6.12	3	Vertical	0	1.50	-
5795MHz	Pass	PK	11.58976G	60.91	74.00	-13.09	3	Vertical	0	1.50	-
5795MHz	Pass	PK	17.3804G	67.70	68.20	-0.50	3	Vertical	334	1.07	-
5795MHz	Pass	AV	11.59002G	52.54	54.00	-1.46	3	Horizontal	296	1.47	-
5795MHz	Pass	PK	11.59011G	62.37	74.00	-11.63	3	Horizontal	296	1.47	-
5795MHz	Pass	PK	17.38202G	67.95	68.20	-0.25	3	Horizontal	24	1.04	-
802.11ax HEW80_Nss1,(MCS0)_8TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	5.7546G	105.54	Inf	-Inf	3	Vertical	271	2.98	-
5775MHz	Pass	PK	5.6502G	67.12	68.35	-1.23	3	Vertical	271	2.98	-
5775MHz	Pass	PK	5.7546G	117.28	Inf	-Inf	3	Vertical	271	2.98	-
5775MHz	Pass	PK	5.9322G	65.47	68.20	-2.73	3	Vertical	271	2.98	-
5775MHz	Pass	AV	5.7714G	106.93	Inf	-Inf	3	Horizontal	88	1.25	-
5775MHz	Pass	PK	5.6442G	66.83	68.20	-1.37	3	Horizontal	88	1.25	-
5775MHz	Pass	PK	5.7726G	118.49	Inf	-Inf	3	Horizontal	88	1.25	-
5775MHz	Pass	PK	5.925G	67.89	68.20	-0.31	3	Horizontal	88	1.25	-
5775MHz	Pass	AV	11.54996G	48.21	54.00	-5.79	3	Vertical	224	2.87	-
5775MHz	Pass	PK	11.55007G	60.83	74.00	-13.17	3	Vertical	224	2.87	-
5775MHz	Pass	PK	17.32448G	66.30	68.20	-1.90	3	Vertical	47	1.50	-
5775MHz	Pass	AV	11.54992G	52.92	54.00	-1.08	3	Horizontal	320	1.42	-
5775MHz	Pass	PK	11.54998G	62.21	74.00	-11.79	3	Horizontal	320	1.42	-
5775MHz	Pass	PK	17.32291G	66.25	68.20	-1.95	3	Horizontal	357	1.50	-

802.11a_Nss1,(6Mbps)_4TX

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5180MHz_TX

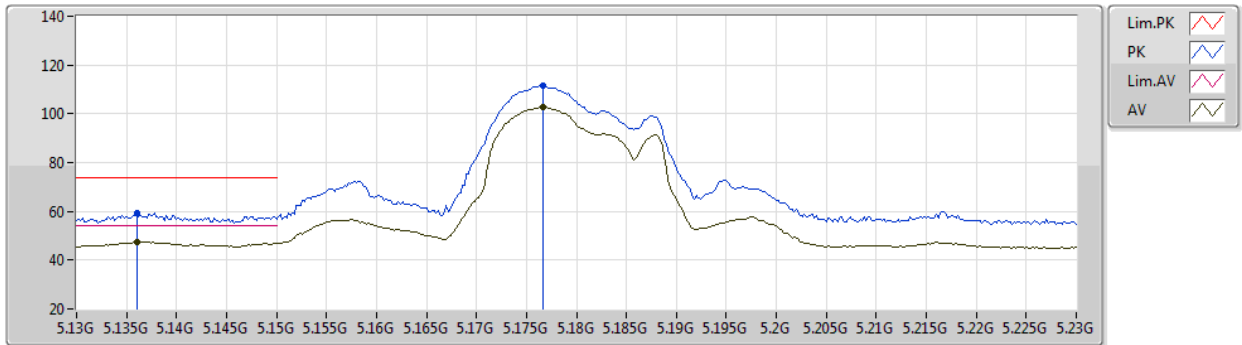


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1488G	52.00	54.00	-2.00	2.58	3	Vertical	296	2.50	-	49.42	31.90	5.48	34.80
AV	5.1768G	107.09	Inf	-Inf	2.54	3	Vertical	296	2.50	-	104.55	31.85	5.49	34.80
PK	5.1474G	64.58	74.00	-9.42	2.59	3	Vertical	296	2.50	-	61.99	31.91	5.48	34.80
PK	5.1766G	116.24	Inf	-Inf	2.54	3	Vertical	296	2.50	-	113.70	31.85	5.49	34.80

802.11a_Nss1,(6Mbps)_4TX

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5180MHz_TX

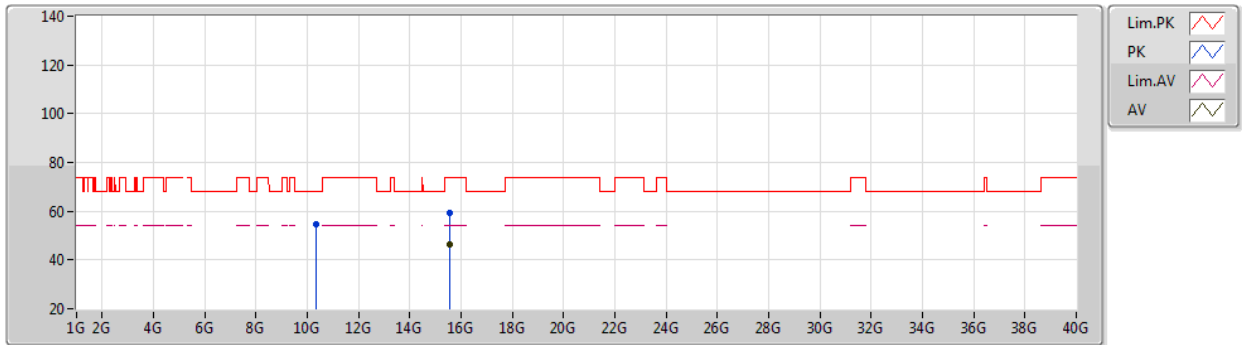


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.136G	47.54	54.00	-6.46	2.60	3	Horizontal	195	1.50	-	44.94	31.93	5.47	34.80
AV	5.1766G	102.59	Inf	-Inf	2.54	3	Horizontal	195	1.50	-	100.05	31.85	5.49	34.80
PK	5.136G	59.17	74.00	-14.83	2.60	3	Horizontal	195	1.50	-	56.57	31.93	5.47	34.80
PK	5.1766G	111.77	Inf	-Inf	2.54	3	Horizontal	195	1.50	-	109.23	31.85	5.49	34.80

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5180MHz_TX

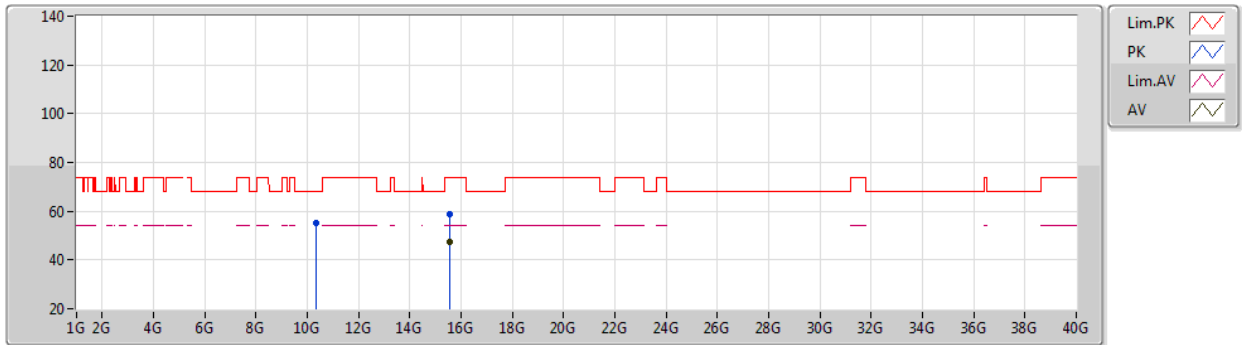


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.54264G	46.57	54.00	-7.43	14.24	3	Vertical	209	1.00	-	32.33	38.99	10.13	34.88
PK	10.3555G	54.89	68.20	-13.31	12.13	3	Vertical	51	1.00	-	42.76	39.46	7.88	35.21
PK	15.54412G	59.44	74.00	-14.56	14.24	3	Vertical	209	1.00	-	45.20	38.99	10.13	34.88

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5180MHz_TX

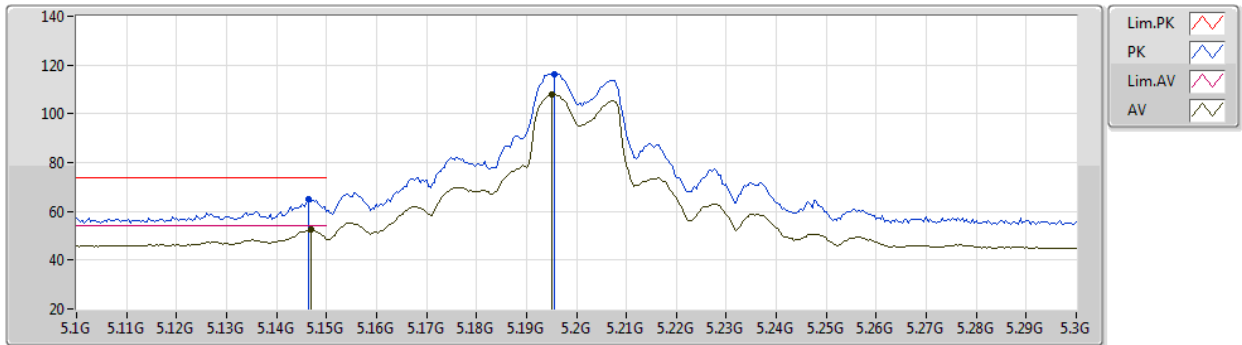


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.5445G	47.18	54.00	-6.82	14.24	3	Horizontal	120	1.29	-	32.94	38.99	10.13	34.88
PK	10.35966G	55.13	68.20	-13.07	12.14	3	Horizontal	118	1.58	-	42.99	39.47	7.88	35.21
PK	15.54414G	58.93	74.00	-15.07	14.24	3	Horizontal	120	1.29	-	44.69	38.99	10.13	34.88

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5200MHz_TX

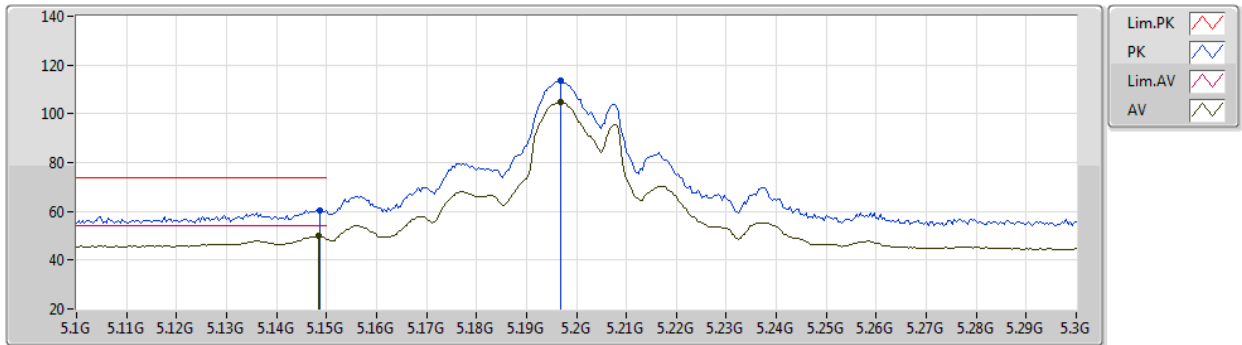


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1468G	52.37	54.00	-1.63	2.59	3	Vertical	307	2.51	-	49.78	31.91	5.48	34.80
AV	5.1952G	107.80	Inf	-Inf	2.51	3	Vertical	307	2.51	-	105.29	31.81	5.50	34.80
PK	5.1464G	65.10	74.00	-8.90	2.59	3	Vertical	307	2.51	-	62.51	31.91	5.48	34.80
PK	5.1956G	116.44	Inf	-Inf	2.51	3	Vertical	307	2.51	-	113.93	31.81	5.50	34.80

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5200MHz_TX

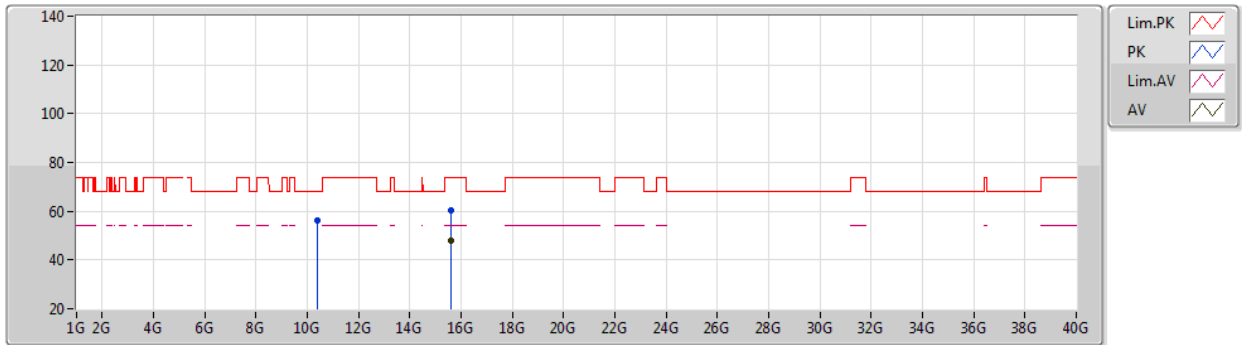


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1484G	49.76	54.00	-4.24	2.58	3	Horizontal	191	1.50	-	47.18	31.90	5.48	34.80
AV	5.1968G	104.62	Inf	-Inf	2.51	3	Horizontal	191	1.50	-	102.11	31.81	5.50	34.80
PK	5.1488G	60.53	74.00	-13.47	2.58	3	Horizontal	191	1.50	-	57.95	31.90	5.48	34.80
PK	5.1968G	113.65	Inf	-Inf	2.51	3	Horizontal	191	1.50	-	111.14	31.81	5.50	34.80

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5200MHz_TX

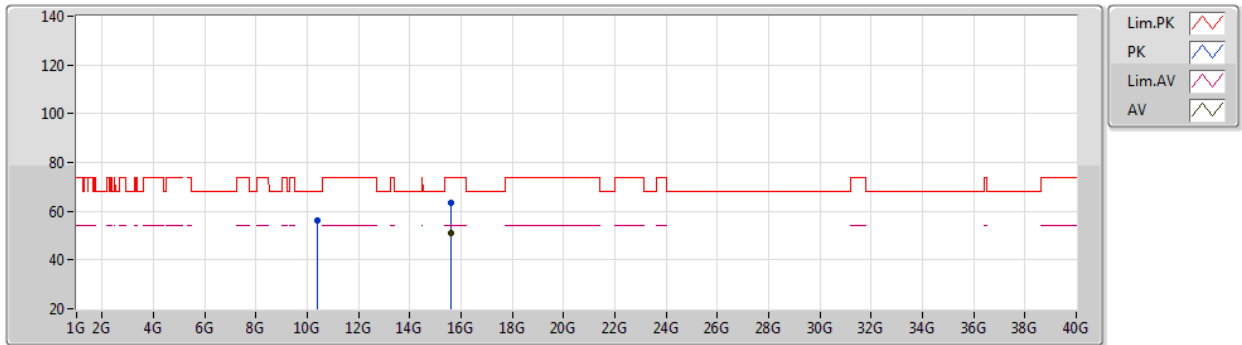


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.60156G	47.94	54.00	-6.06	14.00	3	Vertical	59	1.78	-	33.94	38.77	10.16	34.93
PK	10.39644G	56.21	68.20	-11.99	12.25	3	Vertical	57	1.00	-	43.96	39.52	7.90	35.17
PK	15.601G	60.26	74.00	-13.74	14.01	3	Vertical	59	1.78	-	46.25	38.78	10.16	34.93

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5200MHz_TX

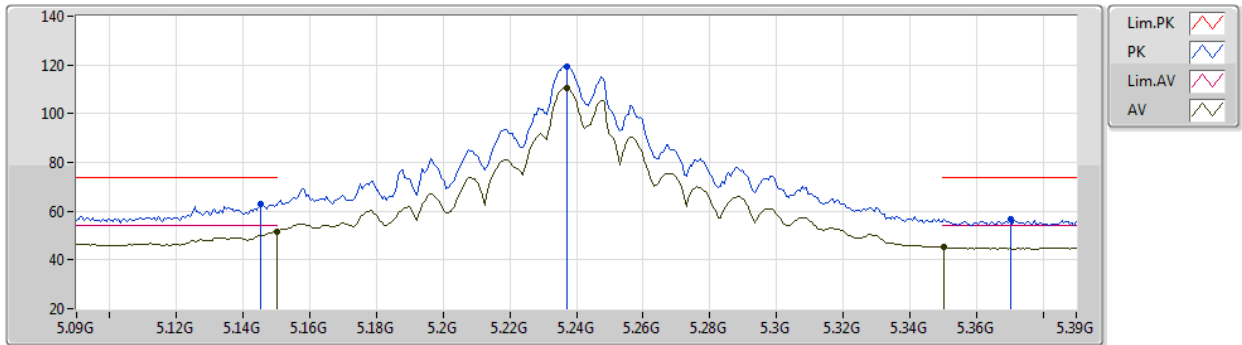


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.60258G	51.12	54.00	-2.88	14.00	3	Horizontal	134	1.45	-	37.12	38.77	10.16	34.93
PK	10.39546G	56.13	68.20	-12.07	12.23	3	Horizontal	118	1.50	-	43.90	39.51	7.90	35.18
PK	15.6042G	63.51	74.00	-10.49	13.99	3	Horizontal	134	1.45	-	49.52	38.76	10.16	34.93

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5240MHz_TX

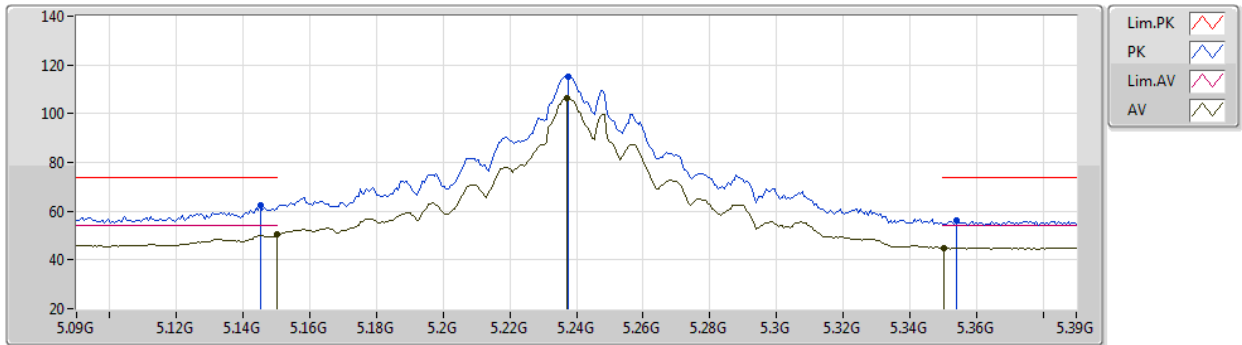


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	51.80	54.00	-2.20	2.58	3	Vertical	298	2.51	-	49.22	31.90	5.48	34.80
AV	5.237G	110.40	Inf	-Inf	2.37	3	Vertical	298	2.51	-	108.03	31.65	5.52	34.80
AV	5.3504G	45.16	54.00	-8.84	2.34	3	Vertical	298	2.51	-	42.82	31.55	5.59	34.80
PK	5.1452G	63.11	74.00	-10.89	2.59	3	Vertical	298	2.51	-	60.52	31.91	5.48	34.80
PK	5.237G	119.54	Inf	-Inf	2.37	3	Vertical	298	2.51	-	117.17	31.65	5.52	34.80
PK	5.3702G	56.77	74.00	-17.23	2.41	3	Vertical	298	2.51	-	54.36	31.61	5.60	34.80

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5240MHz_TX

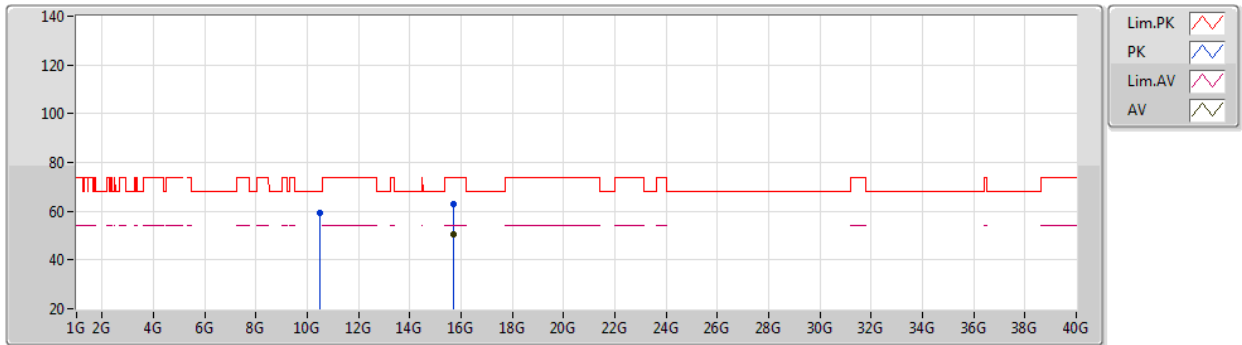


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	50.27	54.00	-3.73	2.58	3	Horizontal	188	1.50	-	47.69	31.90	5.48	34.80
AV	5.237G	106.36	Inf	-Inf	2.37	3	Horizontal	188	1.50	-	103.99	31.65	5.52	34.80
AV	5.3504G	44.98	54.00	-9.02	2.34	3	Horizontal	188	1.50	-	42.64	31.55	5.59	34.80
PK	5.1452G	62.44	74.00	-11.56	2.59	3	Horizontal	188	1.50	-	59.85	31.91	5.48	34.80
PK	5.2376G	115.36	Inf	-Inf	2.37	3	Horizontal	188	1.50	-	112.99	31.65	5.52	34.80
PK	5.354G	55.98	74.00	-18.02	2.35	3	Horizontal	188	1.50	-	53.63	31.56	5.59	34.80

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5240MHz_TX

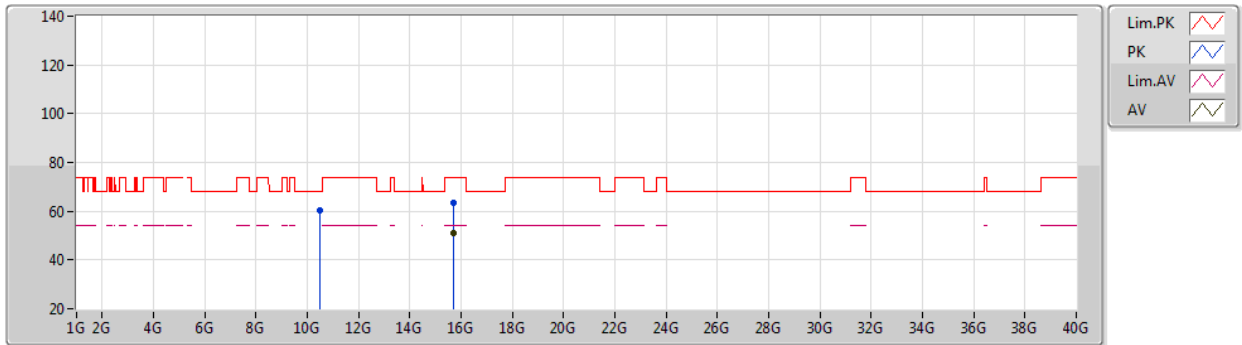


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.7193G	50.27	54.00	-3.73	13.53	3	Vertical	18	1.47	-	36.74	38.34	10.23	35.04
PK	10.47634G	59.29	68.20	-8.91	12.44	3	Vertical	51	1.00	-	46.85	39.62	7.93	35.11
PK	15.7205G	62.77	74.00	-11.23	13.52	3	Vertical	18	1.47	-	49.25	38.33	10.23	35.04

802.11a_Nss1,(6Mbps)_4TX

05/10/2019

5240MHz_TX

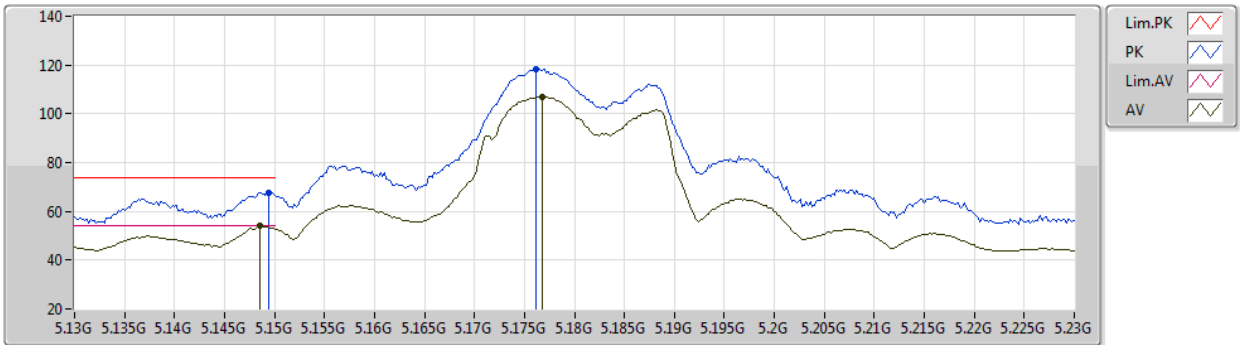


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.71506G	51.05	54.00	-2.95	13.55	3	Horizontal	136	2.18	-	37.50	38.35	10.23	35.03
PK	10.4765G	60.45	68.20	-7.75	12.44	3	Horizontal	107	1.50	-	48.01	39.62	7.93	35.11
PK	15.7151G	63.56	74.00	-10.44	13.55	3	Horizontal	136	2.18	-	50.01	38.35	10.23	35.03

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5180MHz_TX

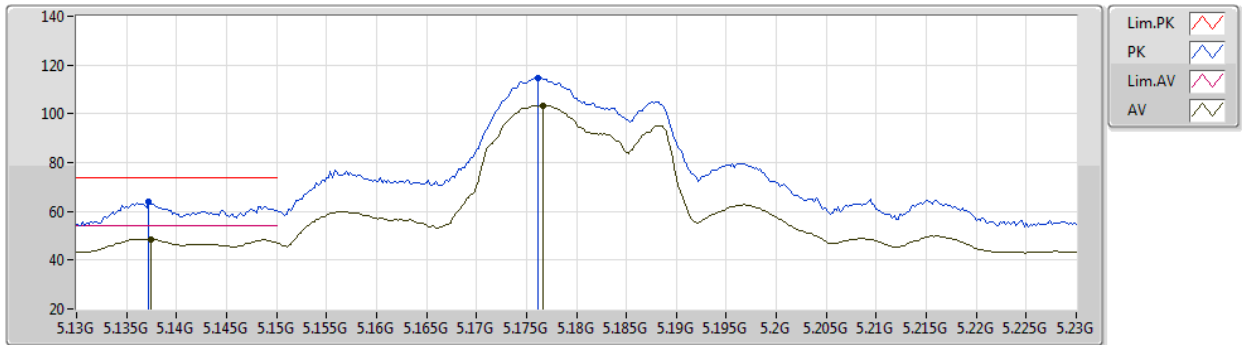


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1486G	53.96	54.00	-0.04	4.36	3	Vertical	311	2.55	-	49.60	31.76	7.03	34.43
AV	5.1768G	107.01	Inf	-Inf	4.42	3	Vertical	311	2.55	-	102.59	31.77	7.07	34.42
PK	5.1494G	67.76	74.00	-6.24	4.37	3	Vertical	311	2.55	-	63.39	31.76	7.04	34.43
PK	5.1762G	118.20	Inf	-Inf	4.42	3	Vertical	311	2.55	-	113.78	31.77	7.07	34.42

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5180MHz_TX

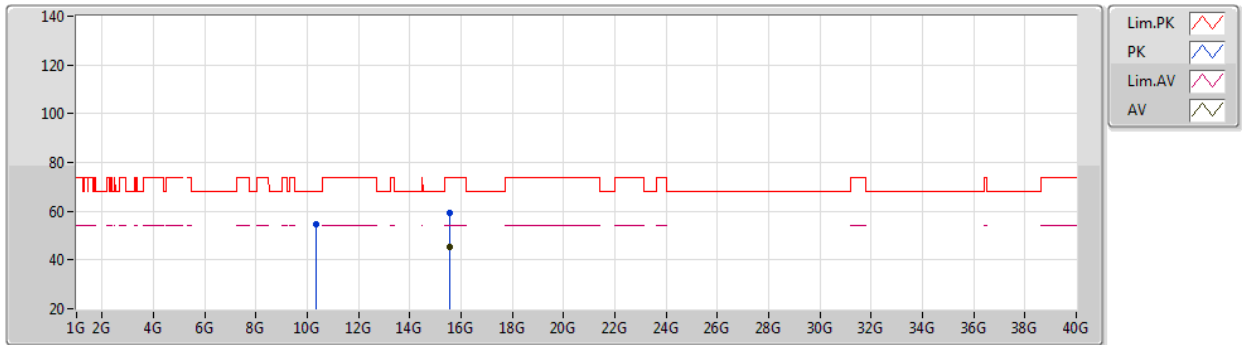


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1374G	48.68	54.00	-5.32	4.34	3	Horizontal	209	1.70	-	44.34	31.75	7.02	34.43
AV	5.1766G	103.49	Inf	-Inf	4.42	3	Horizontal	209	1.70	-	99.07	31.77	7.07	34.42
PK	5.1372G	63.95	74.00	-10.05	4.34	3	Horizontal	209	1.70	-	59.61	31.75	7.02	34.43
PK	5.1762G	114.58	Inf	-Inf	4.42	3	Horizontal	209	1.70	-	110.16	31.77	7.07	34.42

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5180MHz_TX

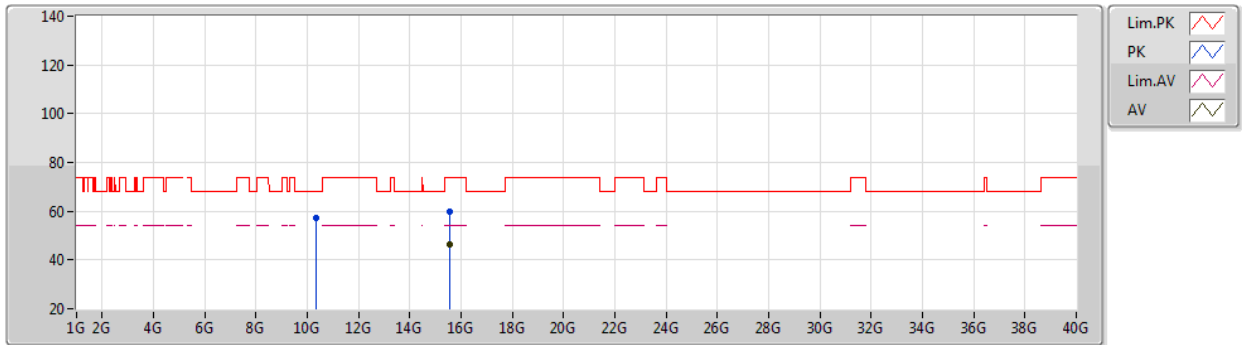


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.54342G	45.60	54.00	-8.40	17.00	3	Vertical	109	1.34	-	28.60	38.79	12.82	34.61
PK	10.35388G	54.75	68.20	-13.45	14.78	3	Vertical	68	1.01	-	39.97	39.36	10.33	34.91
PK	15.5427G	59.48	74.00	-14.52	17.00	3	Vertical	109	1.34	-	42.48	38.79	12.82	34.61

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5180MHz_TX

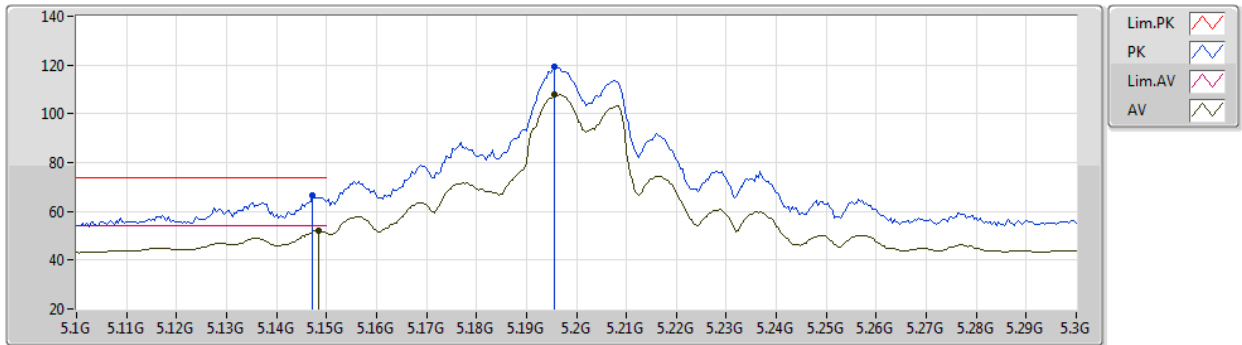


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.54492G	46.14	54.00	-7.86	16.99	3	Horizontal	119	1.40	-	29.15	38.78	12.82	34.61
PK	10.35382G	57.12	68.20	-11.08	14.78	3	Horizontal	106	1.62	-	42.34	39.36	10.33	34.91
PK	15.54444G	59.79	74.00	-14.21	17.00	3	Horizontal	119	1.40	-	42.79	38.79	12.82	34.61

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5200MHz_TX

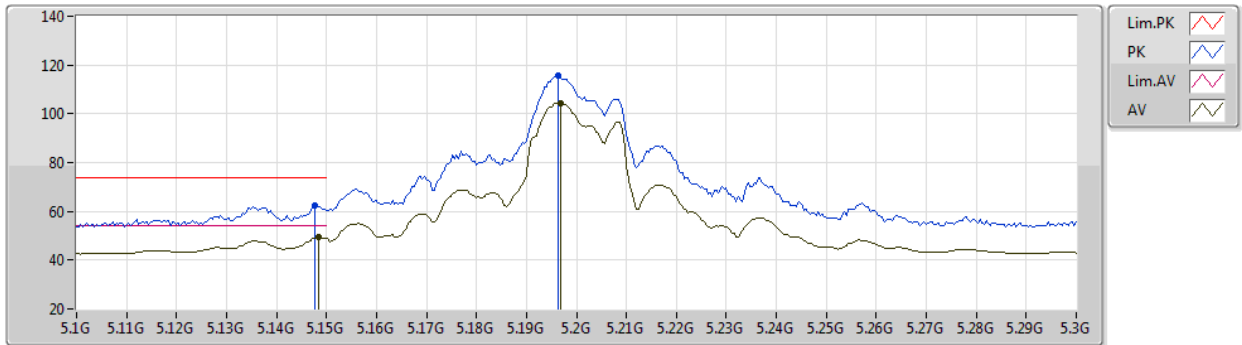


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1484G	52.30	54.00	-1.70	4.36	3	Vertical	314	2.44	-	47.94	31.76	7.03	34.43
AV	5.1956G	107.75	Inf	-Inf	4.45	3	Vertical	314	2.44	-	103.30	31.78	7.09	34.42
PK	5.1472G	66.35	74.00	-7.65	4.36	3	Vertical	314	2.44	-	61.99	31.76	7.03	34.43
PK	5.1956G	119.07	Inf	-Inf	4.45	3	Vertical	314	2.44	-	114.62	31.78	7.09	34.42

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5200MHz_TX

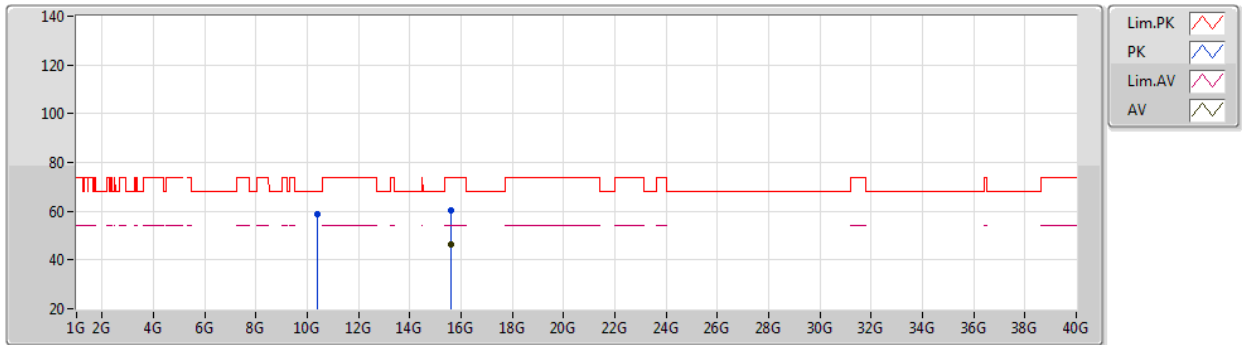


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1484G	49.37	54.00	-4.63	4.36	3	Horizontal	209	1.76	-	45.01	31.76	7.03	34.43
AV	5.1968G	104.37	Inf	-Inf	4.46	3	Horizontal	209	1.76	-	99.91	31.78	7.10	34.42
PK	5.1476G	62.23	74.00	-11.77	4.36	3	Horizontal	209	1.76	-	57.87	31.76	7.03	34.43
PK	5.1964G	115.72	Inf	-Inf	4.45	3	Horizontal	209	1.76	-	111.27	31.78	7.09	34.42

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5200MHz_TX

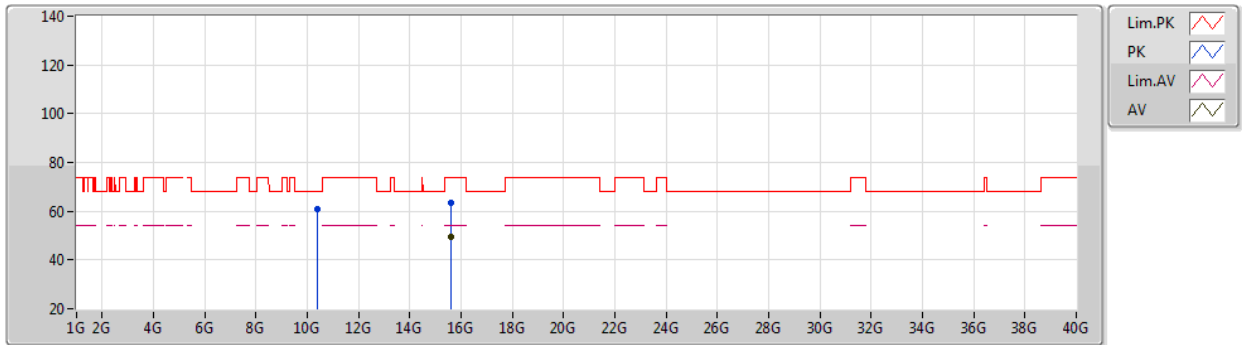


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.60312G	46.35	54.00	-7.65	16.80	3	Vertical	69	2.50	-	29.55	38.57	12.91	34.68
PK	10.39376G	58.59	68.20	-9.61	14.87	3	Vertical	63	1.48	-	43.72	39.41	10.33	34.87
PK	15.60462G	60.14	74.00	-13.86	16.80	3	Vertical	69	2.50	-	43.34	38.56	12.92	34.68

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5200MHz_TX

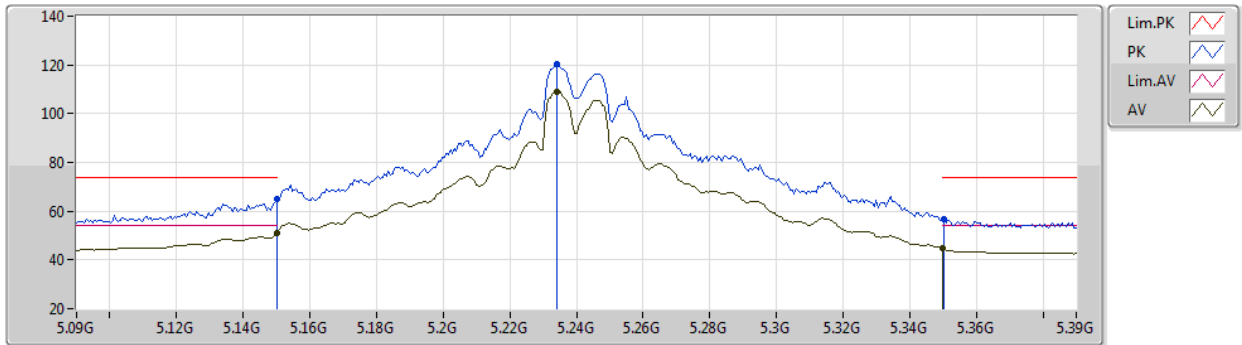


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.60324G	49.39	54.00	-4.61	16.80	3	Horizontal	133	1.40	-	32.59	38.57	12.91	34.68
PK	10.39382G	60.78	68.20	-7.42	14.87	3	Horizontal	128	1.47	-	45.91	39.41	10.33	34.87
PK	15.6066G	63.48	74.00	-10.52	16.79	3	Horizontal	133	1.40	-	46.69	38.56	12.92	34.69

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5240MHz_TX

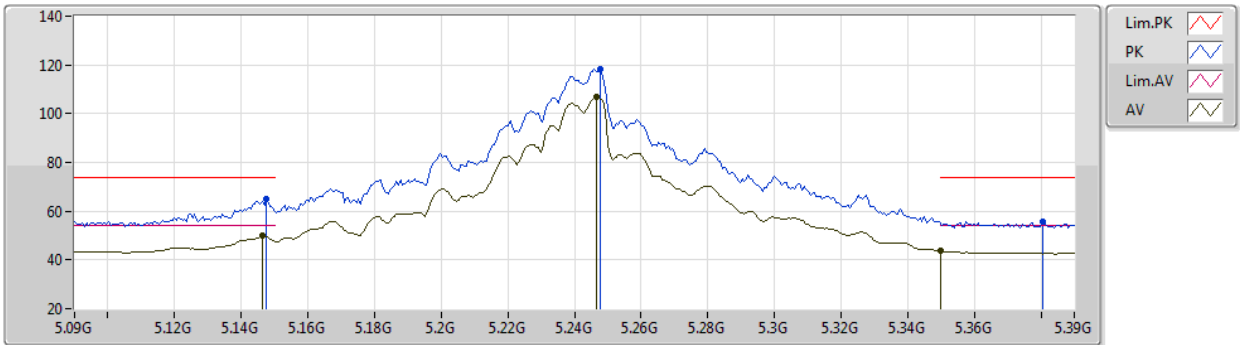


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.15G	51.16	54.00	-2.84	4.38	3	Vertical	315	2.52	-	46.78	31.76	7.04	34.42
AV	5.234G	108.95	Inf	-Inf	4.51	3	Vertical	315	2.52	-	104.44	31.79	7.14	34.42
AV	5.35G	44.60	54.00	-9.40	4.72	3	Vertical	315	2.52	-	39.88	31.84	7.29	34.41
PK	5.15G	65.11	74.00	-8.89	4.38	3	Vertical	315	2.52	-	60.73	31.76	7.04	34.42
PK	5.234G	120.32	Inf	-Inf	4.51	3	Vertical	315	2.52	-	115.81	31.79	7.14	34.42
PK	5.3504G	56.75	74.00	-17.25	4.72	3	Vertical	315	2.52	-	52.03	31.84	7.29	34.41

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5240MHz_TX

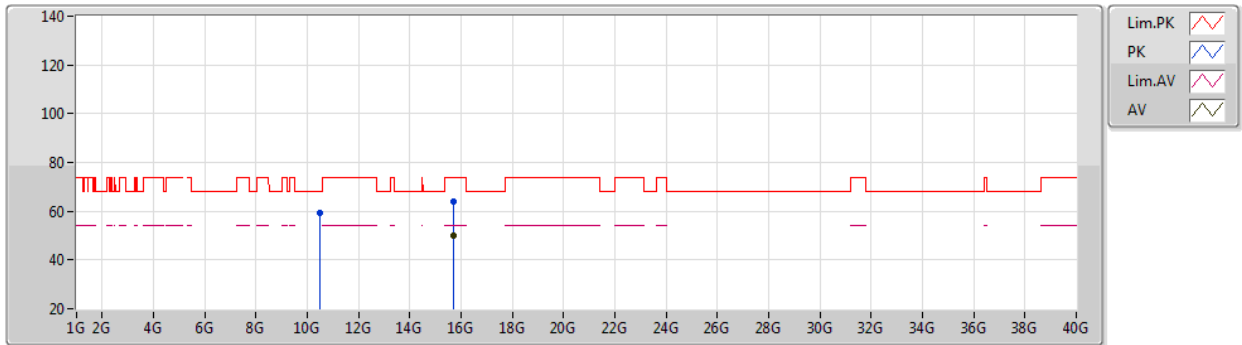


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1464G	49.77	54.00	-4.23	4.36	3	Horizontal	339	2.08	-	45.41	31.76	7.03	34.43
AV	5.2466G	106.72	Inf	-Inf	4.54	3	Horizontal	339	2.08	-	102.18	31.80	7.16	34.42
AV	5.35G	43.58	54.00	-10.42	4.72	3	Horizontal	339	2.08	-	38.86	31.84	7.29	34.41
PK	5.1476G	64.91	74.00	-9.09	4.36	3	Horizontal	339	2.08	-	60.55	31.76	7.03	34.43
PK	5.2478G	118.42	Inf	-Inf	4.54	3	Horizontal	339	2.08	-	113.88	31.80	7.16	34.42
PK	5.3804G	55.78	74.00	-18.22	4.77	3	Horizontal	339	2.08	-	51.01	31.85	7.33	34.41

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5240MHz_TX

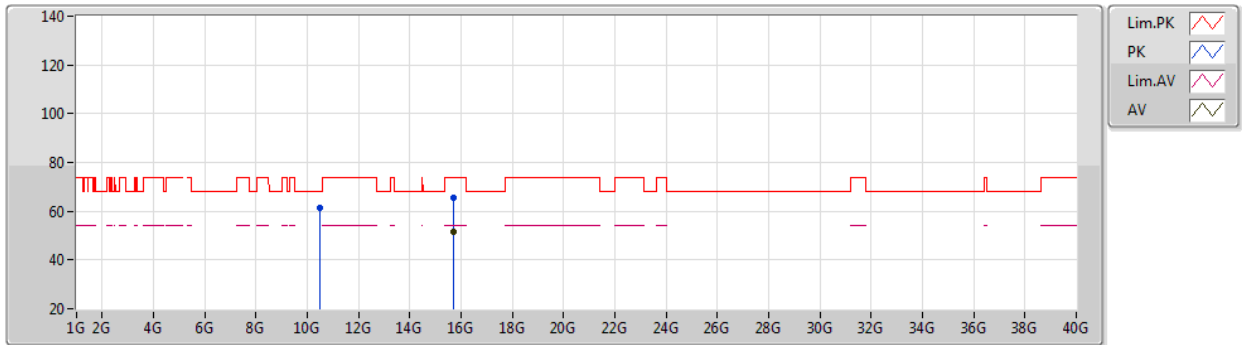


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.72756G	50.16	54.00	-3.84	16.39	3	Vertical	55	1.86	-	33.77	38.11	13.11	34.83
PK	10.47232G	59.09	68.20	-9.11	15.05	3	Vertical	66	1.45	-	44.04	39.51	10.35	34.81
PK	15.7263G	63.81	74.00	-10.19	16.39	3	Vertical	55	1.86	-	47.42	38.11	13.11	34.83

802.11ac VHT20_Nss1,(MCS0)_4TX

05/10/2019

5240MHz_TX

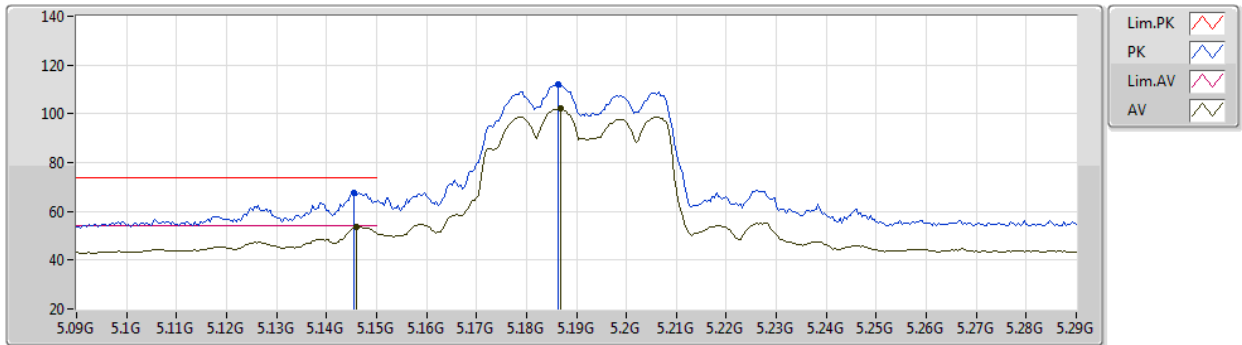


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.71646G	51.81	54.00	-2.19	16.42	3	Horizontal	150	1.36	-	35.39	38.15	13.09	34.82
PK	10.4722G	61.53	68.20	-6.67	15.05	3	Horizontal	125	1.46	-	46.48	39.51	10.35	34.81
PK	15.71628G	65.40	74.00	-8.60	16.42	3	Horizontal	150	1.36	-	48.98	38.15	13.09	34.82

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5190MHz_TX

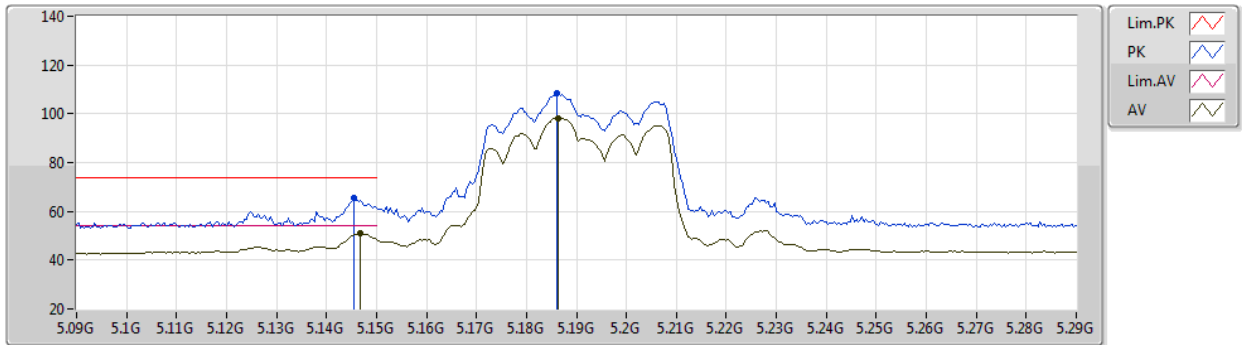


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.146G	53.85	54.00	-0.15	4.36	3	Vertical	313	2.48	-	49.49	31.76	7.03	34.43
AV	5.1868G	102.01	Inf	-Inf	4.43	3	Vertical	313	2.48	-	97.58	31.77	7.08	34.42
PK	5.1456G	67.70	74.00	-6.30	4.36	3	Vertical	313	2.48	-	63.34	31.76	7.03	34.43
PK	5.1864G	112.12	Inf	-Inf	4.43	3	Vertical	313	2.48	-	107.69	31.77	7.08	34.42

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5190MHz_TX

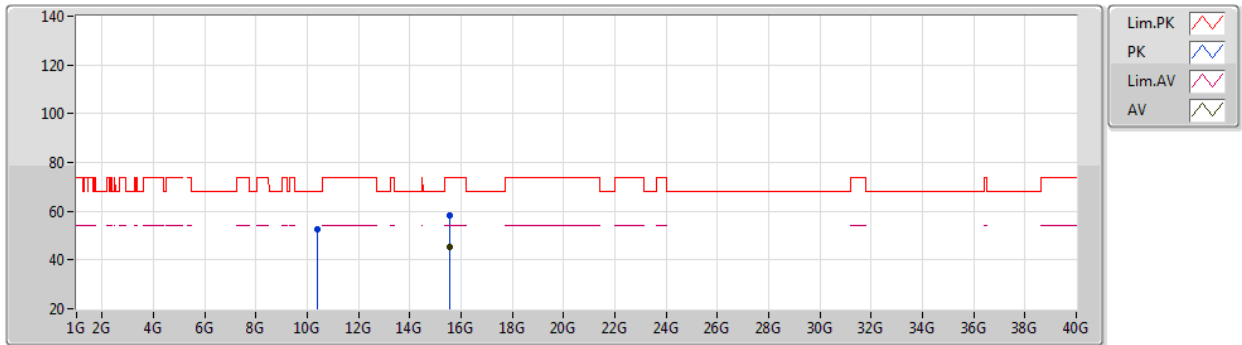


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1468G	50.87	54.00	-3.13	4.36	3	Horizontal	209	1.69	-	46.51	31.76	7.03	34.43
AV	5.1864G	98.23	Inf	-Inf	4.43	3	Horizontal	209	1.69	-	93.80	31.77	7.08	34.42
PK	5.1456G	65.75	74.00	-8.25	4.36	3	Horizontal	209	1.69	-	61.39	31.76	7.03	34.43
PK	5.186G	108.20	Inf	-Inf	4.43	3	Horizontal	209	1.69	-	103.77	31.77	7.08	34.42

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5190MHz_TX

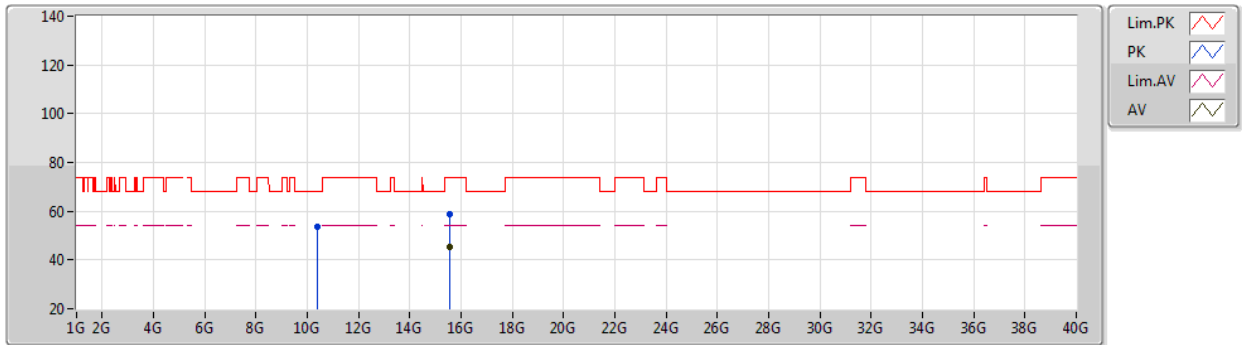


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.5592G	45.52	54.00	-8.48	16.94	3	Vertical	0	1.56	-	28.58	38.73	12.84	34.63
PK	10.37178G	52.79	68.20	-15.41	14.82	3	Vertical	64	1.03	-	37.97	39.38	10.33	34.89
PK	15.56196G	58.46	74.00	-15.54	16.94	3	Vertical	0	1.56	-	41.52	38.72	12.85	34.63

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5190MHz_TX

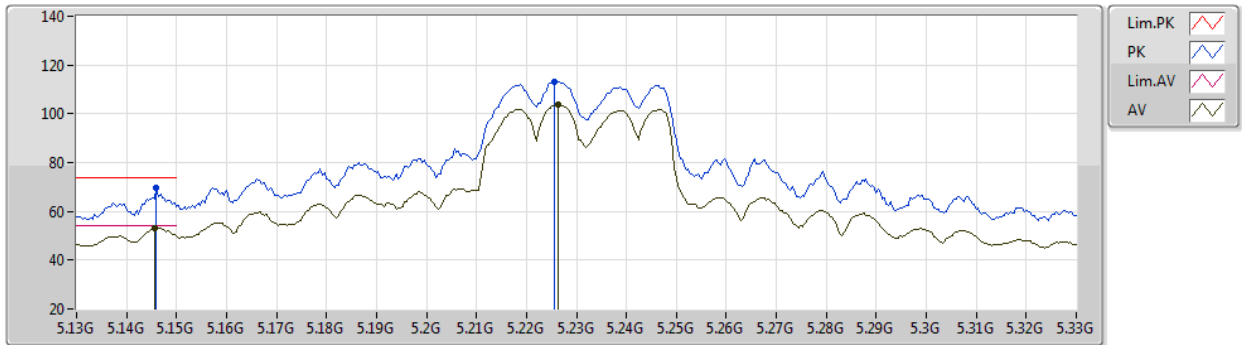


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.55506G	45.58	54.00	-8.42	16.97	3	Horizontal	157	2.21	-	28.61	38.75	12.84	34.62
PK	10.37172G	53.44	68.20	-14.76	14.82	3	Horizontal	129	1.48	-	38.62	39.38	10.33	34.89
PK	15.56718G	59.01	74.00	-14.99	16.92	3	Horizontal	157	2.21	-	42.09	38.70	12.86	34.64

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5230MHz_TX

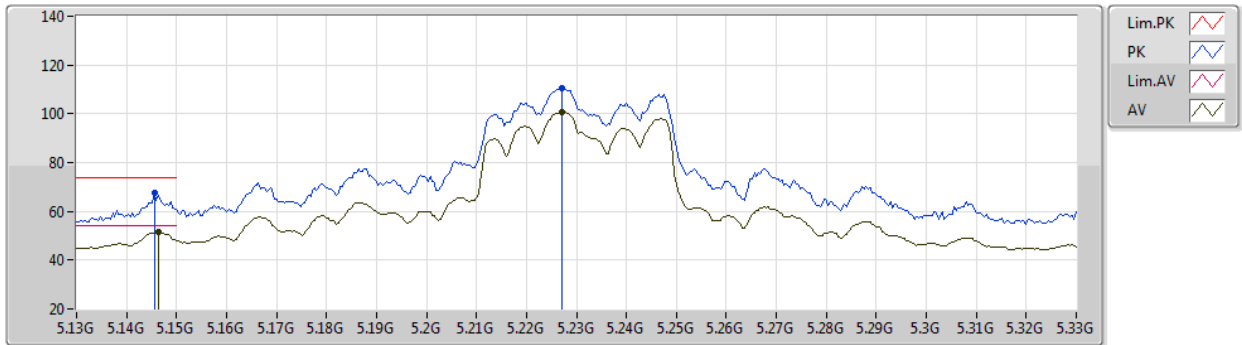


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1456G	53.10	54.00	-0.90	4.36	3	Vertical	318	2.65	-	48.74	31.76	7.03	34.43
AV	5.2264G	103.54	Inf	-Inf	4.50	3	Vertical	318	2.65	-	99.04	31.79	7.13	34.42
PK	5.146G	69.60	74.00	-4.40	4.36	3	Vertical	318	2.65	-	65.24	31.76	7.03	34.43
PK	5.2256G	113.30	Inf	-Inf	4.50	3	Vertical	318	2.65	-	108.80	31.79	7.13	34.42

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5230MHz_TX

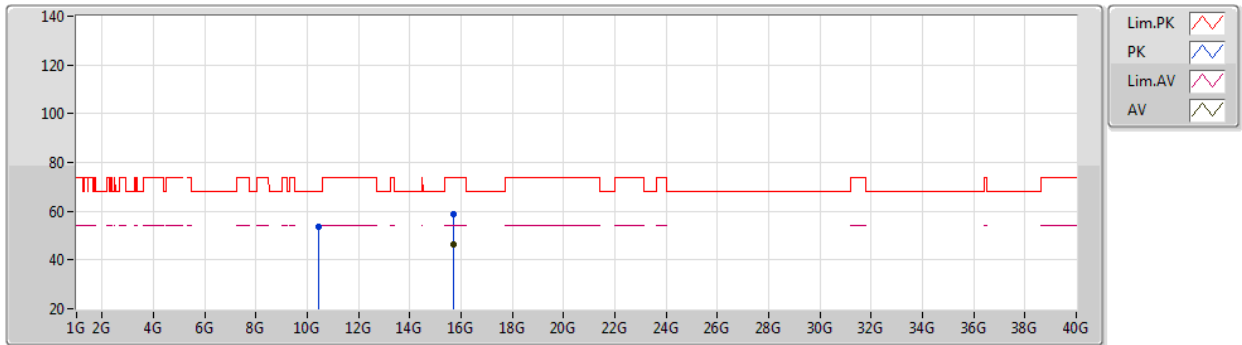


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1464G	51.51	54.00	-2.49	4.36	3	Horizontal	209	1.74	-	47.15	31.76	7.03	34.43
AV	5.2272G	100.64	Inf	-Inf	4.50	3	Horizontal	209	1.74	-	96.14	31.79	7.13	34.42
PK	5.1456G	67.36	74.00	-6.64	4.36	3	Horizontal	209	1.74	-	63.00	31.76	7.03	34.43
PK	5.2272G	110.44	Inf	-Inf	4.50	3	Horizontal	209	1.74	-	105.94	31.79	7.13	34.42

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5230MHz_TX

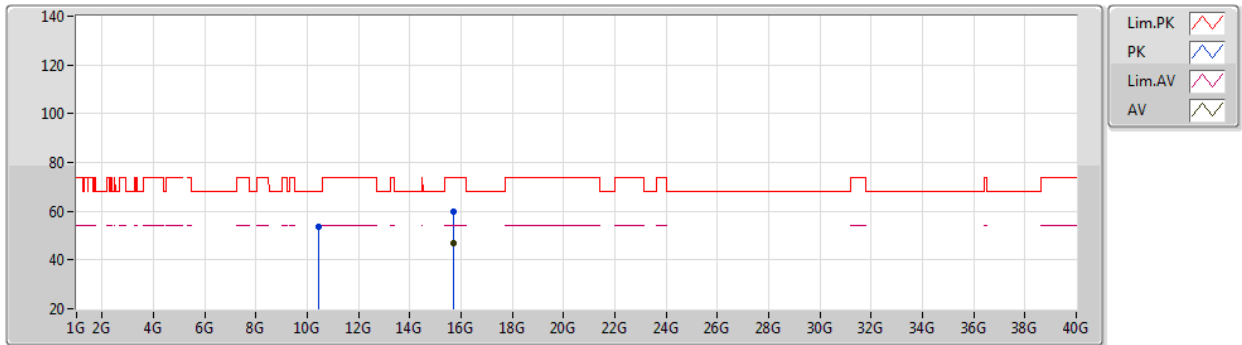


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.68874G	46.60	54.00	-7.40	16.52	3	Vertical	55	1.48	-	30.08	38.25	13.05	34.78
PK	10.45292G	53.38	68.20	-14.82	15.01	3	Vertical	60	1.42	-	38.37	39.49	10.34	34.82
PK	15.68808G	58.89	74.00	-15.11	16.52	3	Vertical	55	1.48	-	42.37	38.25	13.05	34.78

802.11ac VHT40_Nss1,(MCS0)_4TX

05/10/2019

5230MHz_TX

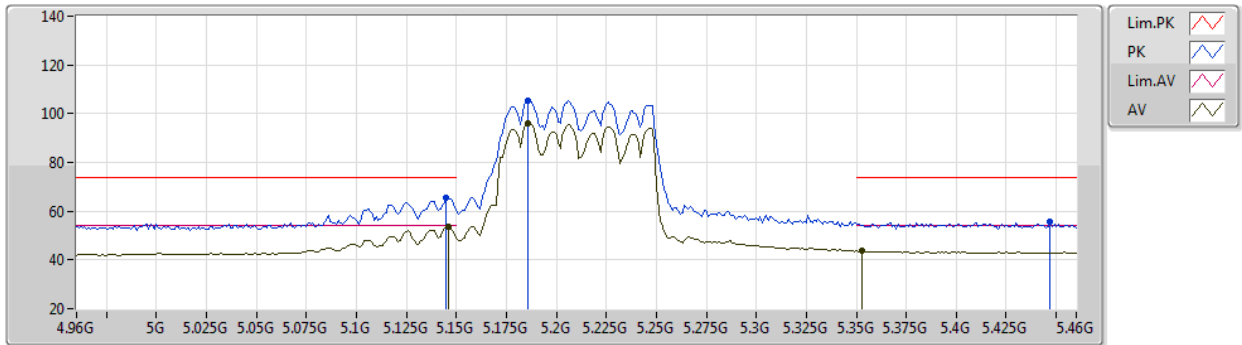


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.69264G	46.75	54.00	-7.25	16.50	3	Horizontal	132	1.49	-	30.25	38.24	13.05	34.79
PK	10.45802G	53.37	68.20	-14.83	15.03	3	Horizontal	65	1.64	-	38.34	39.50	10.35	34.82
PK	15.6927G	59.69	74.00	-14.31	16.50	3	Horizontal	132	1.49	-	43.19	38.24	13.05	34.79

802.11ac VHT80_Nss1,(MCS0)_4TX

05/10/2019

5210MHz_TX

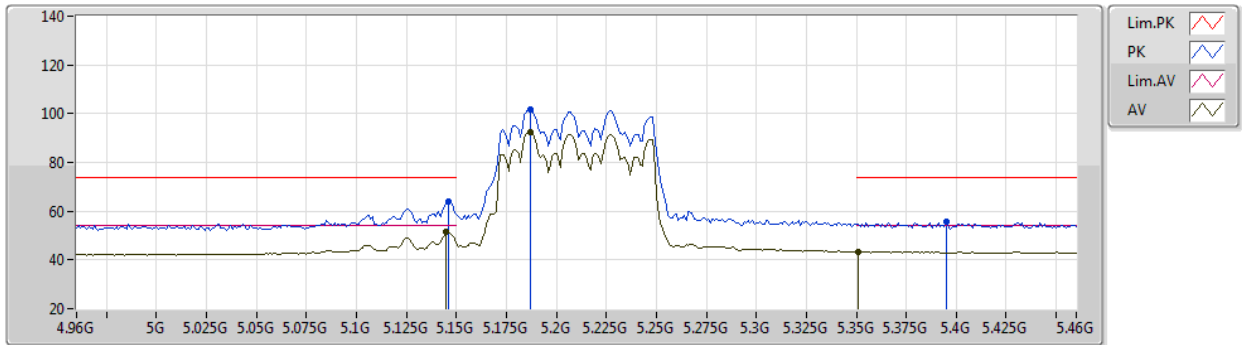


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.146G	53.71	54.00	-0.29	4.36	3	Vertical	316	2.51	-	49.35	31.76	7.03	34.43
AV	5.186G	96.18	Inf	-Inf	4.43	3	Vertical	316	2.51	-	91.75	31.77	7.08	34.42
AV	5.353G	43.67	54.00	-10.33	4.72	3	Vertical	316	2.51	-	38.95	31.84	7.29	34.41
PK	5.145G	65.71	74.00	-8.29	4.36	3	Vertical	316	2.51	-	61.35	31.76	7.03	34.43
PK	5.186G	105.59	Inf	-Inf	4.43	3	Vertical	316	2.51	-	101.16	31.77	7.08	34.42
PK	5.447G	55.55	74.00	-18.45	4.88	3	Vertical	316	2.51	-	50.67	31.88	7.41	34.41

802.11ac VHT80_Nss1,(MCS0)_4TX

05/10/2019

5210MHz_TX

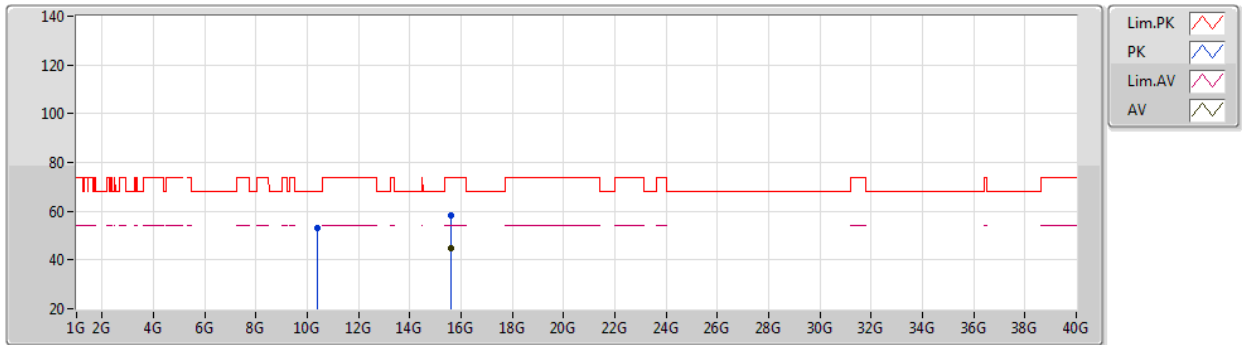


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.145G	51.64	54.00	-2.36	4.36	3	Horizontal	212	1.76	-	47.28	31.76	7.03	34.43
AV	5.187G	92.45	Inf	-Inf	4.43	3	Horizontal	212	1.76	-	88.02	31.77	7.08	34.42
AV	5.351G	43.48	54.00	-10.52	4.72	3	Horizontal	212	1.76	-	38.76	31.84	7.29	34.41
PK	5.146G	64.07	74.00	-9.93	4.36	3	Horizontal	212	1.76	-	59.71	31.76	7.03	34.43
PK	5.187G	101.86	Inf	-Inf	4.43	3	Horizontal	212	1.76	-	97.43	31.77	7.08	34.42
PK	5.395G	55.54	74.00	-18.46	4.79	3	Horizontal	212	1.76	-	50.75	31.86	7.34	34.41

802.11ac VHT80_Nss1,(MCS0)_4TX

05/10/2019

5210MHz_TX

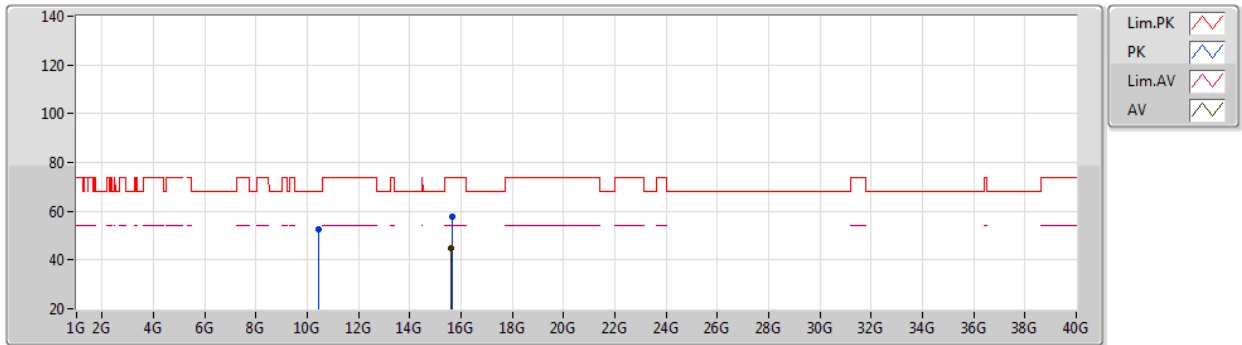


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.61896G	44.85	54.00	-9.15	16.75	3	Vertical	272	1.49	-	28.10	38.51	12.94	34.70
PK	10.405G	53.21	68.20	-14.99	14.91	3	Vertical	355	2.86	-	38.30	39.43	10.34	34.86
PK	15.62238G	58.30	74.00	-15.70	16.74	3	Vertical	272	1.49	-	41.56	38.50	12.94	34.70

802.11ac VHT80_Nss1,(MCS0)_4TX

05/10/2019

5210MHz_TX

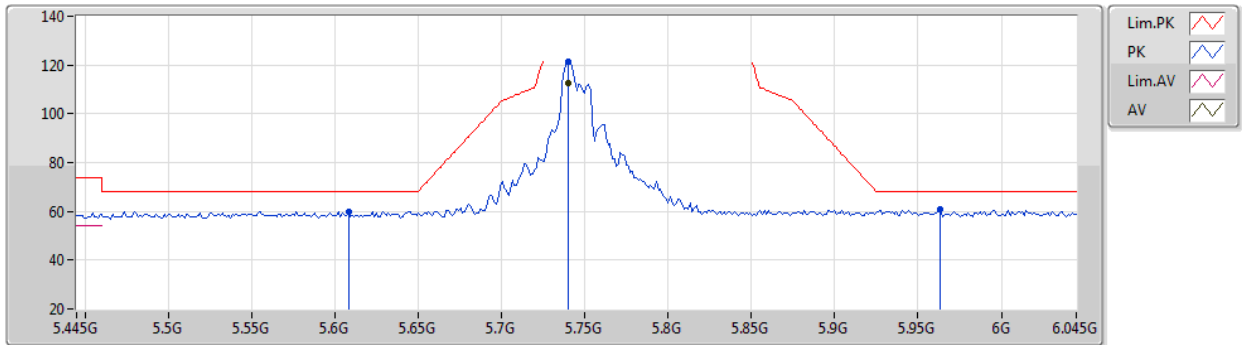


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	15.62268G	44.82	54.00	-9.18	16.74	3	Horizontal	231	2.83	-	28.08	38.50	12.94	34.70
PK	10.42558G	52.57	68.20	-15.63	14.94	3	Horizontal	245	1.37	-	37.63	39.45	10.34	34.85
PK	15.64398G	57.68	74.00	-16.32	16.67	3	Horizontal	231	2.83	-	41.01	38.42	12.98	34.73

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5745MHz_TX

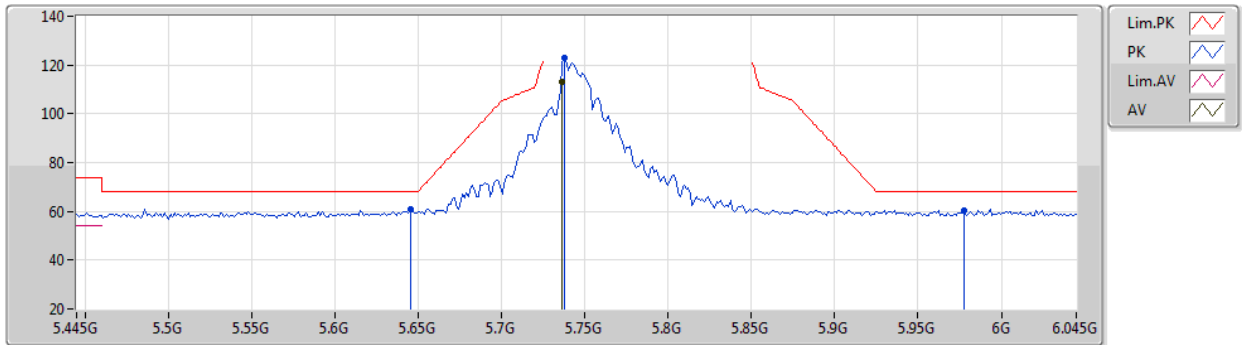


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7402G	112.45	Inf	-Inf	8.26	3	Vertical	112	1.50	-	104.19	31.92	10.41	34.07
PK	5.6082G	60.07	68.20	-8.13	7.80	3	Vertical	112	1.50	-	52.27	31.62	10.25	34.07
PK	5.7402G	121.51	Inf	-Inf	8.26	3	Vertical	112	1.50	-	113.25	31.92	10.41	34.07
PK	5.9634G	60.96	68.20	-7.24	8.89	3	Vertical	112	1.50	-	52.07	32.40	10.57	34.08

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5745MHz_TX

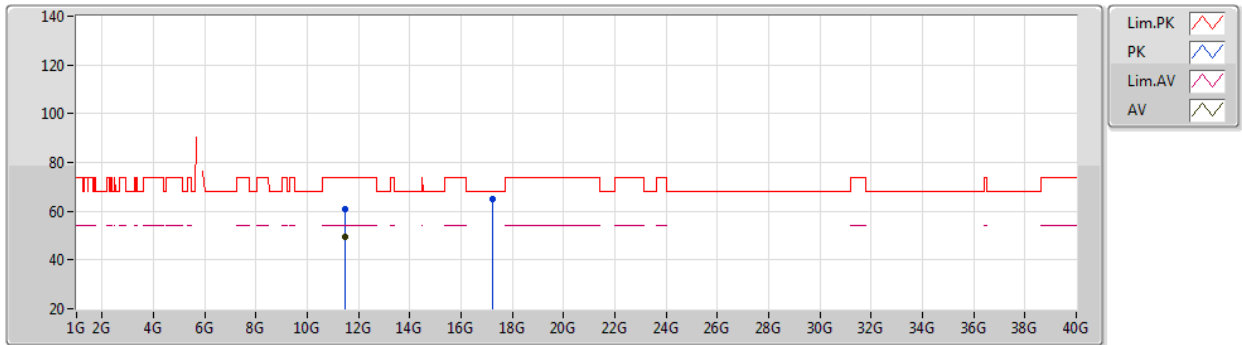


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7366G	112.95	Inf	-Inf	8.25	3	Horizontal	94	1.29	-	104.70	31.91	10.41	34.07
PK	5.6454G	61.12	68.20	-7.08	7.92	3	Horizontal	94	1.29	-	53.20	31.69	10.30	34.07
PK	5.7378G	122.78	Inf	-Inf	8.25	3	Horizontal	94	1.29	-	114.53	31.91	10.41	34.07
PK	5.9778G	60.58	68.20	-7.62	8.89	3	Horizontal	94	1.29	-	51.69	32.40	10.57	34.08

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5745MHz_TX

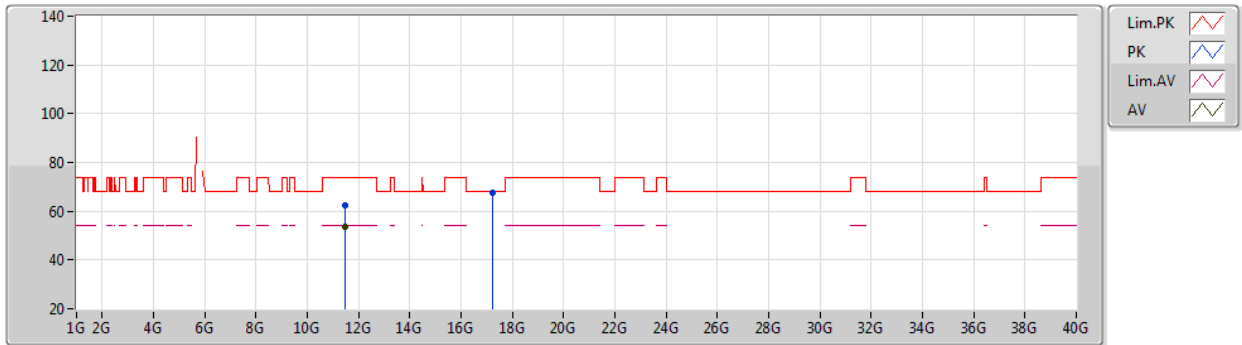


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.48982G	49.24	54.00	-4.76	18.99	3	Vertical	228	1.54	-	30.25	39.56	13.62	34.19
PK	11.48716G	60.86	74.00	-13.14	19.00	3	Vertical	228	1.54	-	41.86	39.57	13.62	34.19
PK	17.24328G	65.15	68.20	-3.05	23.02	3	Vertical	335	1.47	-	42.13	41.88	14.62	33.48

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5745MHz_TX

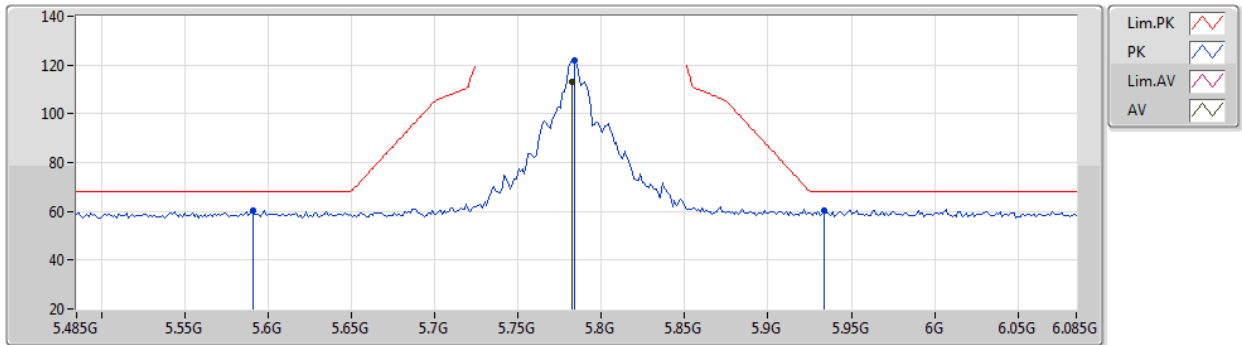


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.48998G	53.82	54.00	-0.18	18.99	3	Horizontal	294	1.47	-	34.83	39.56	13.62	34.19
PK	11.48985G	62.29	74.00	-11.71	18.99	3	Horizontal	294	1.47	-	43.30	39.56	13.62	34.19
PK	17.23842G	67.70	68.20	-0.50	22.99	3	Horizontal	307	1.50	-	44.71	41.85	14.62	33.48

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5785MHz_TX

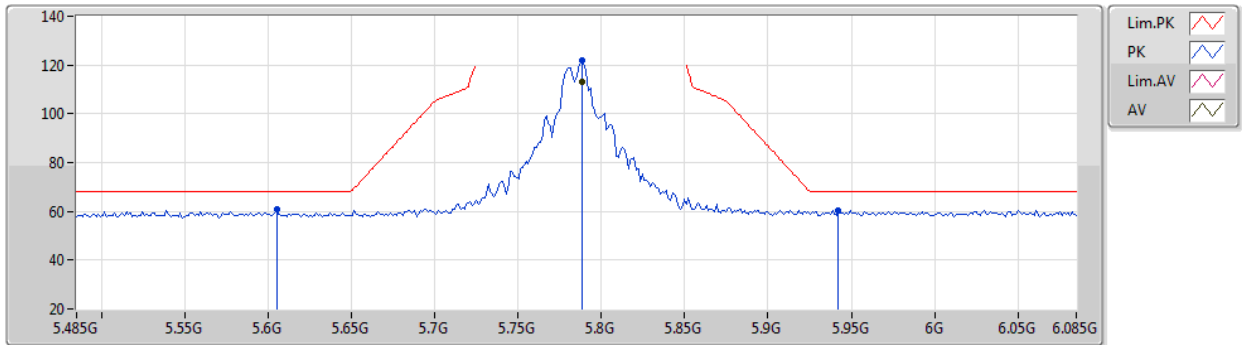


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7826G	113.30	Inf	-Inf	8.44	3	Vertical	35	1.08	-	104.86	32.05	10.47	34.08
PK	5.5906G	60.29	68.20	-7.91	7.79	3	Vertical	35	1.08	-	52.50	31.62	10.24	34.07
PK	5.7838G	122.15	Inf	-Inf	8.44	3	Vertical	35	1.08	-	113.71	32.05	10.47	34.08
PK	5.9338G	60.53	68.20	-7.67	8.87	3	Vertical	35	1.08	-	51.66	32.40	10.55	34.08

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5785MHz_TX

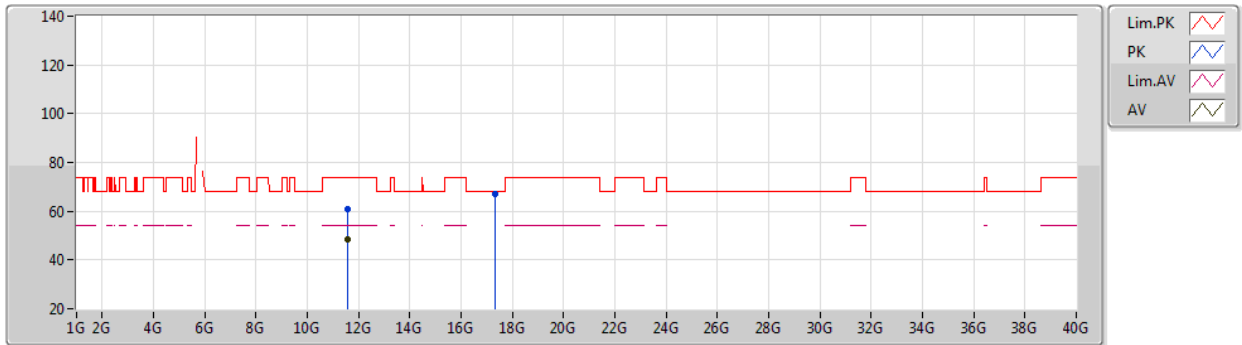


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7886G	112.89	Inf	-Inf	8.46	3	Horizontal	97	1.32	-	104.43	32.07	10.47	34.08
PK	5.605G	60.85	68.20	-7.35	7.79	3	Horizontal	97	1.32	-	53.06	31.61	10.25	34.07
PK	5.7886G	121.82	Inf	-Inf	8.46	3	Horizontal	97	1.32	-	113.36	32.07	10.47	34.08
PK	5.9422G	60.60	68.20	-7.60	8.88	3	Horizontal	97	1.32	-	51.72	32.40	10.56	34.08

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5785MHz_TX

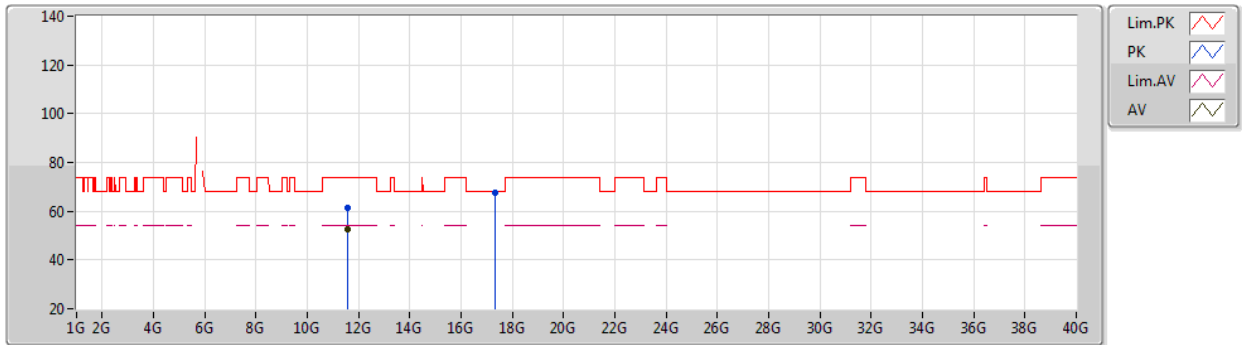


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57204G	48.43	54.00	-5.57	18.94	3	Vertical	350	1.34	-	29.49	39.46	13.67	34.19
PK	11.58398G	60.82	74.00	-13.18	18.91	3	Vertical	350	1.34	-	41.91	39.44	13.67	34.20
PK	17.34582G	67.24	68.20	-0.96	23.78	3	Vertical	334	1.44	-	43.46	42.59	14.69	33.50

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5785MHz_TX

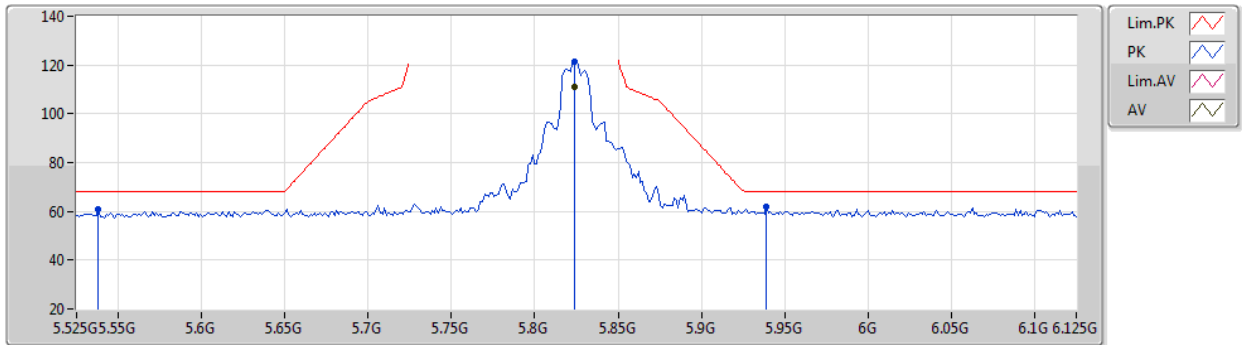


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57G	52.46	54.00	-1.54	18.94	3	Horizontal	297	1.48	-	33.52	39.46	13.67	34.19
PK	11.57012G	61.37	74.00	-12.63	18.94	3	Horizontal	297	1.48	-	42.43	39.46	13.67	34.19
PK	17.34858G	67.55	68.20	-0.65	23.80	3	Horizontal	110	1.30	-	43.75	42.61	14.69	33.50

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5825MHz_TX

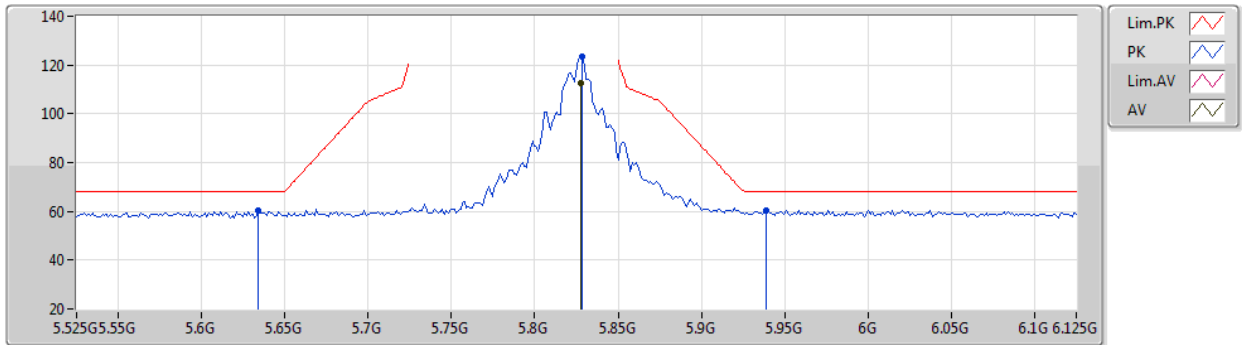


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8238G	111.00	Inf	-Inf	8.59	3	Vertical	279	2.49	-	102.41	32.17	10.50	34.08
PK	5.5382G	60.73	68.20	-7.47	7.88	3	Vertical	279	2.49	-	52.85	31.72	10.23	34.07
PK	5.8238G	121.27	Inf	-Inf	8.59	3	Vertical	279	2.49	-	112.68	32.17	10.50	34.08
PK	5.939G	61.74	68.20	-6.46	8.87	3	Vertical	279	2.49	-	52.87	32.40	10.55	34.08

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5825MHz_TX

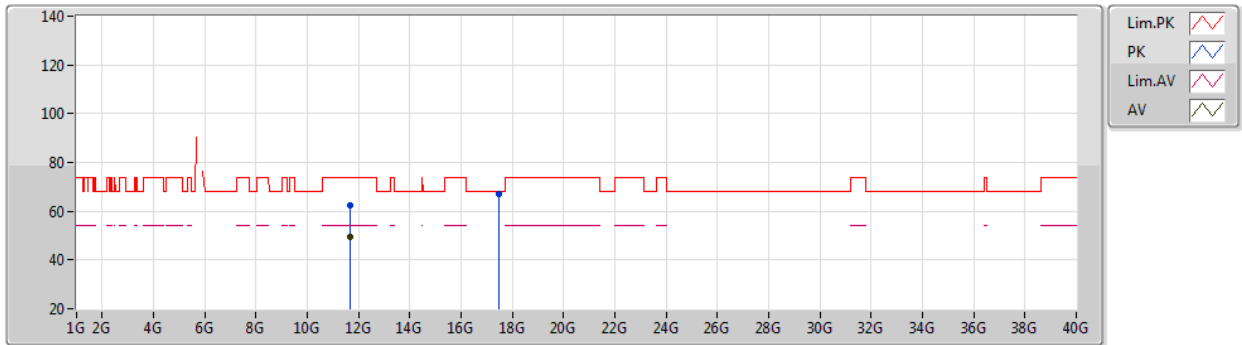


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8274G	112.70	Inf	-Inf	8.60	3	Horizontal	93	1.24	-	104.10	32.18	10.50	34.08
PK	5.6342G	60.44	68.20	-7.76	7.88	3	Horizontal	93	1.24	-	52.56	31.67	10.28	34.07
PK	5.8286G	123.46	Inf	-Inf	8.61	3	Horizontal	93	1.24	-	114.85	32.19	10.50	34.08
PK	5.939G	60.53	68.20	-7.67	8.87	3	Horizontal	93	1.24	-	51.66	32.40	10.55	34.08

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5825MHz_TX

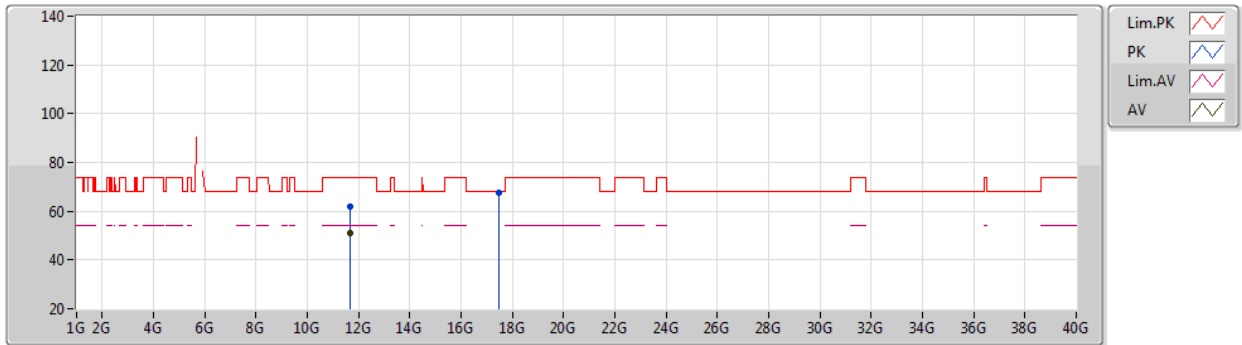


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65198G	49.57	54.00	-4.43	18.86	3	Vertical	350	1.26	-	30.71	39.35	13.71	34.20
PK	11.65174G	62.57	74.00	-11.43	18.86	3	Vertical	350	1.26	-	43.71	39.35	13.71	34.20
PK	17.48748G	67.06	68.20	-1.14	24.82	3	Vertical	201	1.74	-	42.24	43.56	14.79	33.53

802.11a_Nss1,(6Mbps)_8TX

16/10/2019

5825MHz_TX

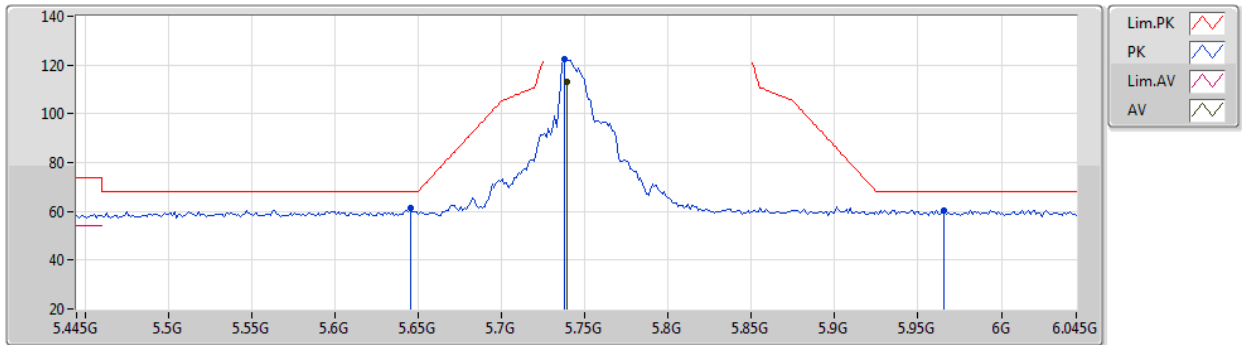


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65006G	51.27	54.00	-2.73	18.86	3	Horizontal	294	1.43	-	32.41	39.35	13.71	34.20
PK	11.65012G	61.71	74.00	-12.29	18.86	3	Horizontal	294	1.43	-	42.85	39.35	13.71	34.20
PK	17.47602G	67.79	68.20	-0.41	24.74	3	Horizontal	302	1.50	-	43.05	43.48	14.79	33.53

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5745MHz_TX

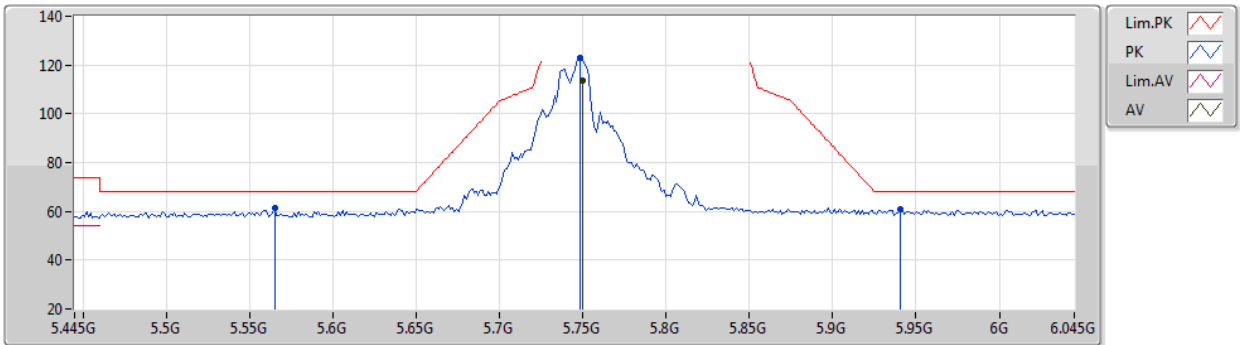


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.739G	113.16	Inf	-Inf	8.26	3	Vertical	360	2.41	-	104.90	31.92	10.41	34.07
PK	5.6454G	61.24	68.20	-6.96	7.92	3	Vertical	360	2.41	-	53.32	31.69	10.30	34.07
PK	5.7378G	122.55	Inf	-Inf	8.25	3	Vertical	360	2.41	-	114.30	31.91	10.41	34.07
PK	5.9658G	60.60	68.20	-7.60	8.89	3	Vertical	360	2.41	-	51.71	32.40	10.57	34.08

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5745MHz_TX

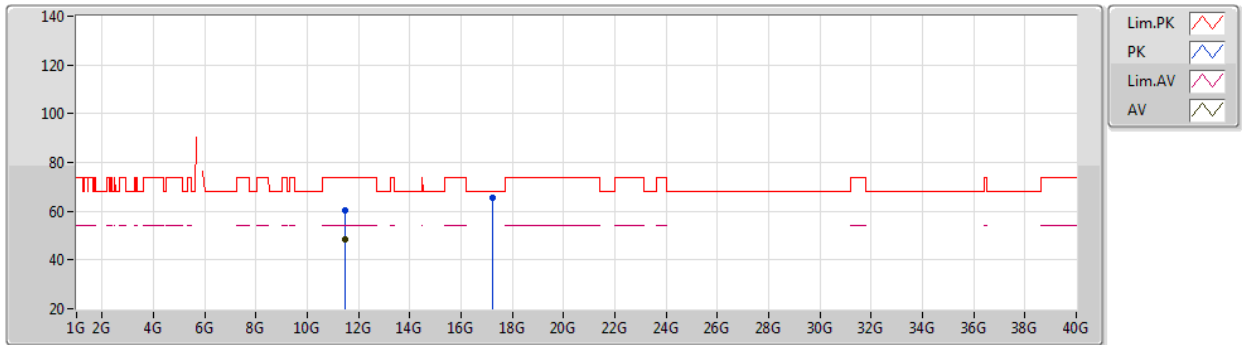


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7498G	113.52	Inf	-Inf	8.31	3	Horizontal	83	1.29	-	105.21	31.95	10.43	34.07
PK	5.565G	61.32	68.20	-6.88	7.83	3	Horizontal	83	1.29	-	53.49	31.67	10.23	34.07
PK	5.7486G	122.96	Inf	-Inf	8.30	3	Horizontal	83	1.29	-	114.66	31.95	10.42	34.07
PK	5.9406G	60.61	68.20	-7.59	8.88	3	Horizontal	83	1.29	-	51.73	32.40	10.56	34.08

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5745MHz_TX

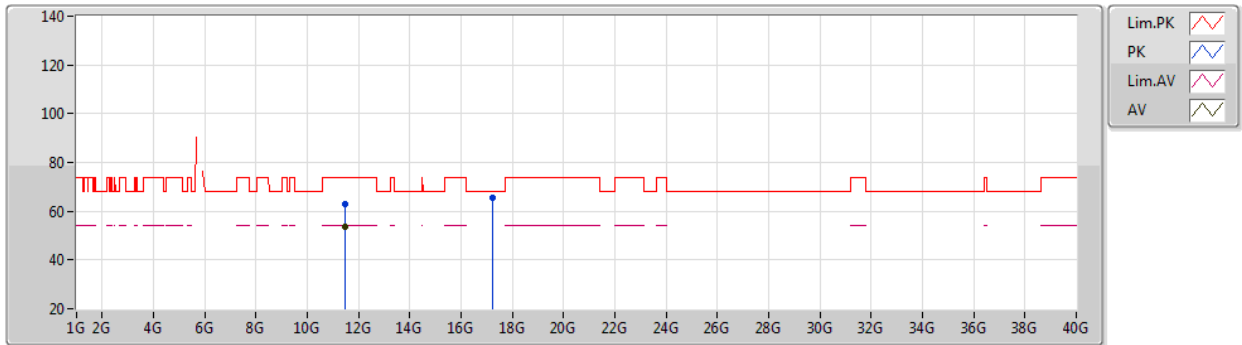


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.48994G	48.20	54.00	-5.80	18.99	3	Vertical	144	1.50	-	29.21	39.56	13.62	34.19
PK	11.49048G	60.36	74.00	-13.64	18.99	3	Vertical	144	1.50	-	41.37	39.56	13.62	34.19
PK	17.24016G	65.67	68.20	-2.53	23.00	3	Vertical	325	1.46	-	42.67	41.86	14.62	33.48

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5745MHz_TX

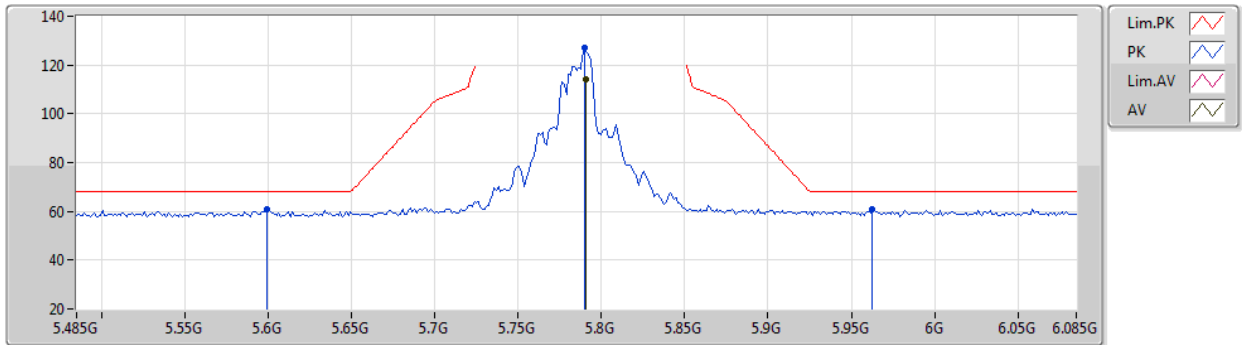


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.49001G	53.84	54.00	-0.16	18.99	3	Horizontal	292	1.49	-	34.85	39.56	13.62	34.19
PK	11.49G	62.90	74.00	-11.10	18.99	3	Horizontal	292	1.49	-	43.91	39.56	13.62	34.19
PK	17.23314G	65.76	68.20	-2.44	22.94	3	Horizontal	301	1.36	-	42.82	41.81	14.61	33.48

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5785MHz_TX

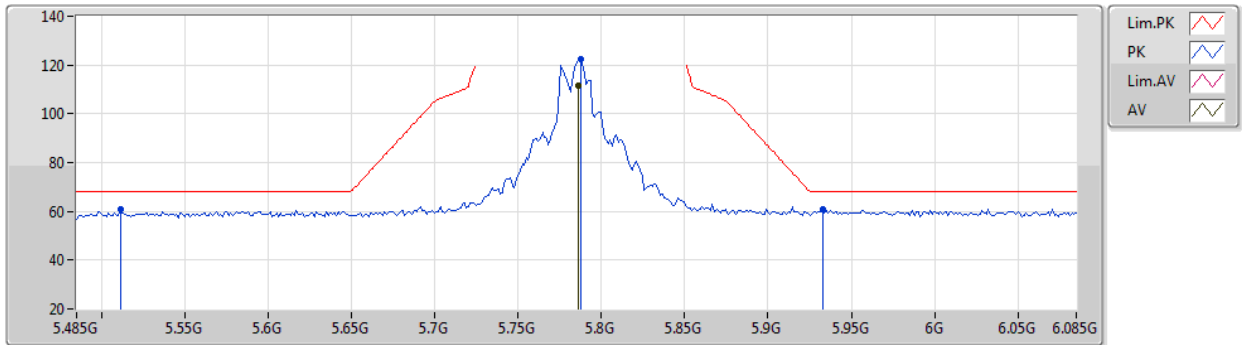


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.791G	114.27	Inf	-Inf	8.47	3	Vertical	56	2.90	-	105.80	32.07	10.48	34.08
PK	5.599G	60.62	68.20	-7.58	7.77	3	Vertical	56	2.90	-	52.85	31.60	10.24	34.07
PK	5.7898G	126.92	Inf	-Inf	8.46	3	Vertical	56	2.90	-	118.46	32.07	10.47	34.08
PK	5.9626G	60.74	68.20	-7.46	8.89	3	Vertical	56	2.90	-	51.85	32.40	10.57	34.08

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5785MHz_TX

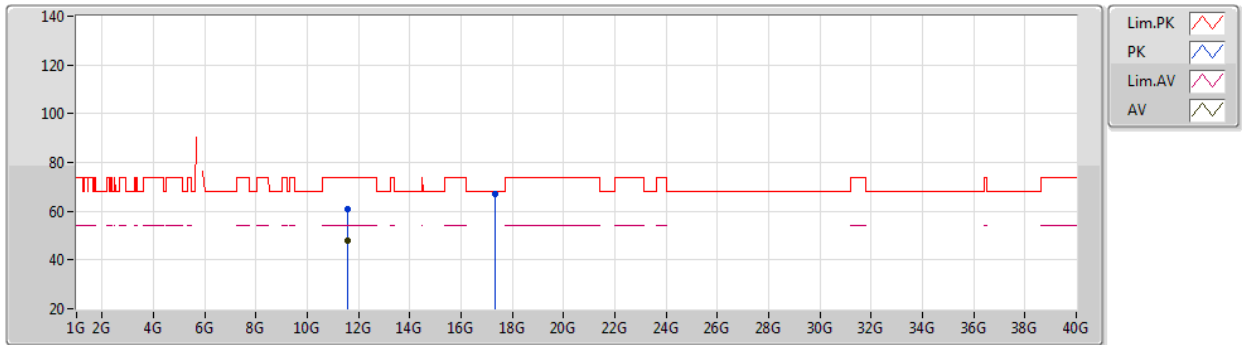


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7862G	111.67	Inf	-Inf	8.45	3	Horizontal	217	1.31	-	103.22	32.06	10.47	34.08
PK	5.5114G	60.62	68.20	-7.58	7.93	3	Horizontal	217	1.31	-	52.69	31.78	10.22	34.07
PK	5.7874G	122.55	Inf	-Inf	8.45	3	Horizontal	217	1.31	-	114.10	32.06	10.47	34.08
PK	5.9326G	60.75	68.20	-7.45	8.87	3	Horizontal	217	1.31	-	51.88	32.40	10.55	34.08

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5785MHz_TX

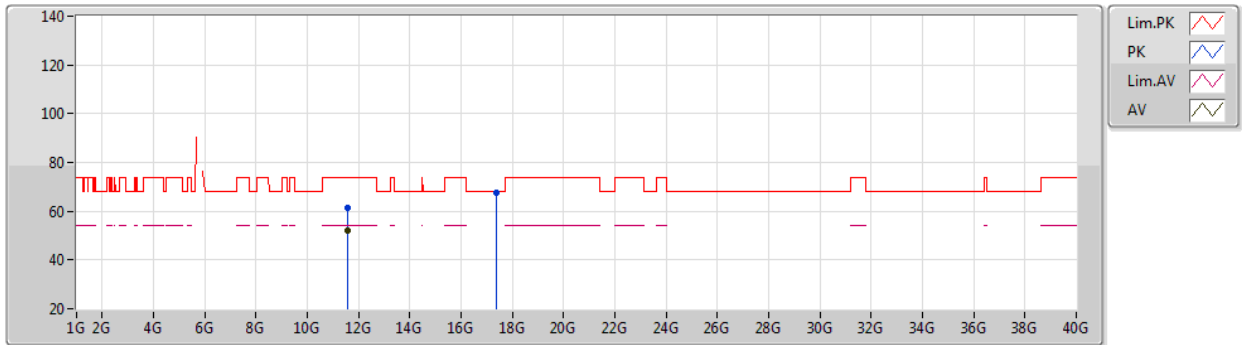


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57G	47.73	54.00	-6.27	18.94	3	Vertical	0	1.46	-	28.79	39.46	13.67	34.19
PK	11.55998G	60.78	74.00	-13.22	18.94	3	Vertical	0	1.46	-	41.84	39.47	13.66	34.19
PK	17.3499G	67.02	68.20	-1.18	23.81	3	Vertical	16	1.06	-	43.21	42.61	14.70	33.50

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5785MHz_TX

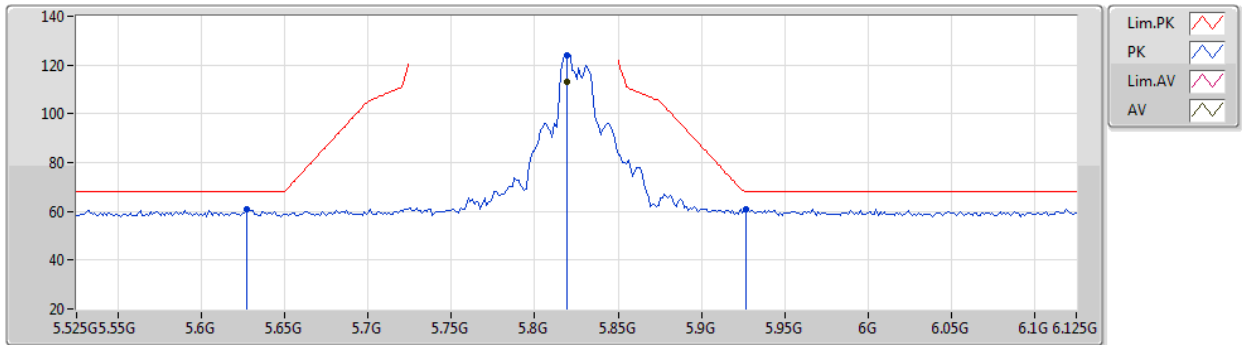


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.57G	52.00	54.00	-2.00	18.94	3	Horizontal	297	1.50	-	33.06	39.46	13.67	34.19
PK	11.571G	61.25	74.00	-12.75	18.94	3	Horizontal	297	1.50	-	42.31	39.46	13.67	34.19
PK	17.35384G	67.35	68.20	-0.85	23.84	3	Horizontal	112	1.46	-	43.51	42.64	14.70	33.50

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5825MHz_TX

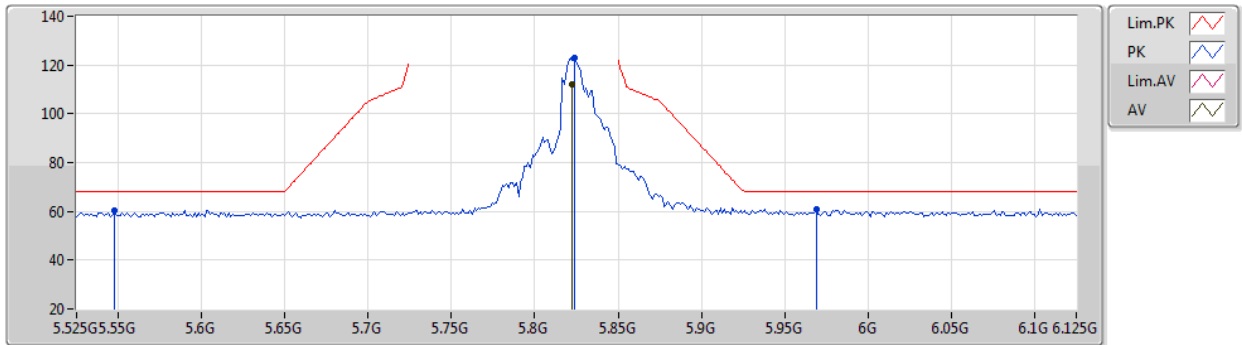


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.819G	113.07	Inf	-Inf	8.58	3	Vertical	277	2.41	-	104.49	32.16	10.50	34.08
PK	5.627G	61.10	68.20	-7.10	7.86	3	Vertical	277	2.41	-	53.24	31.65	10.28	34.07
PK	5.819G	124.20	Inf	-Inf	8.58	3	Vertical	277	2.41	-	115.62	32.16	10.50	34.08
PK	5.927G	60.98	68.20	-7.22	8.87	3	Vertical	277	2.41	-	52.11	32.40	10.55	34.08

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5825MHz_TX

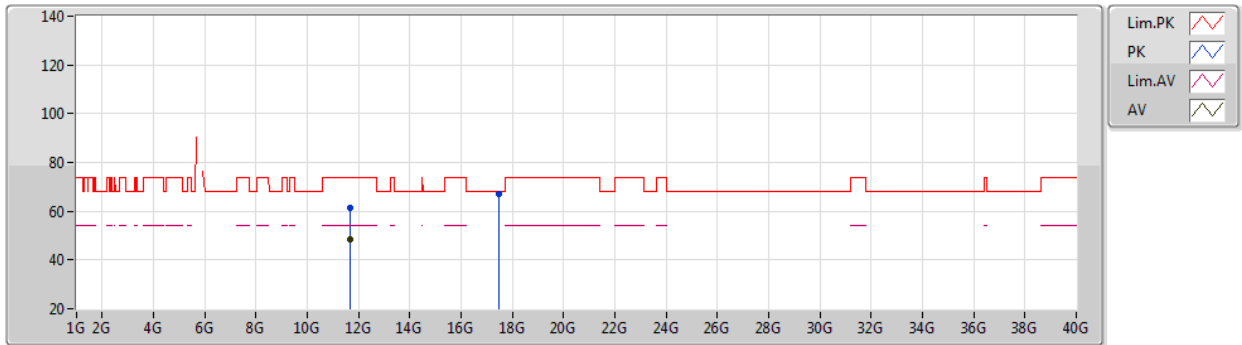


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8226G	111.84	Inf	-Inf	8.59	3	Horizontal	56	2.57	-	103.25	32.17	10.50	34.08
PK	5.5478G	60.26	68.20	-7.94	7.86	3	Horizontal	56	2.57	-	52.40	31.70	10.23	34.07
PK	5.8238G	123.15	Inf	-Inf	8.59	3	Horizontal	56	2.57	-	114.56	32.17	10.50	34.08
PK	5.969G	60.85	68.20	-7.35	8.89	3	Horizontal	56	2.57	-	51.96	32.40	10.57	34.08

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5825MHz_TX

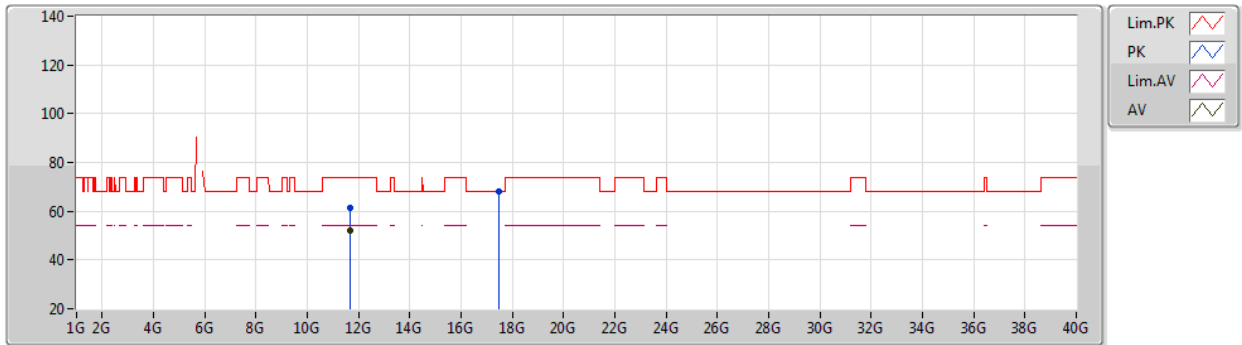


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65006G	48.24	54.00	-5.76	18.86	3	Vertical	358	1.26	-	29.38	39.35	13.71	34.20
PK	11.66278G	61.28	74.00	-12.72	18.86	3	Vertical	358	1.26	-	42.42	39.34	13.72	34.20
PK	17.47086G	67.15	68.20	-1.05	24.71	3	Vertical	196	1.00	-	42.44	43.45	14.78	33.52

802.11ax HEW20_Nss1,(MCS0)_8TX

17/10/2019

5825MHz_TX

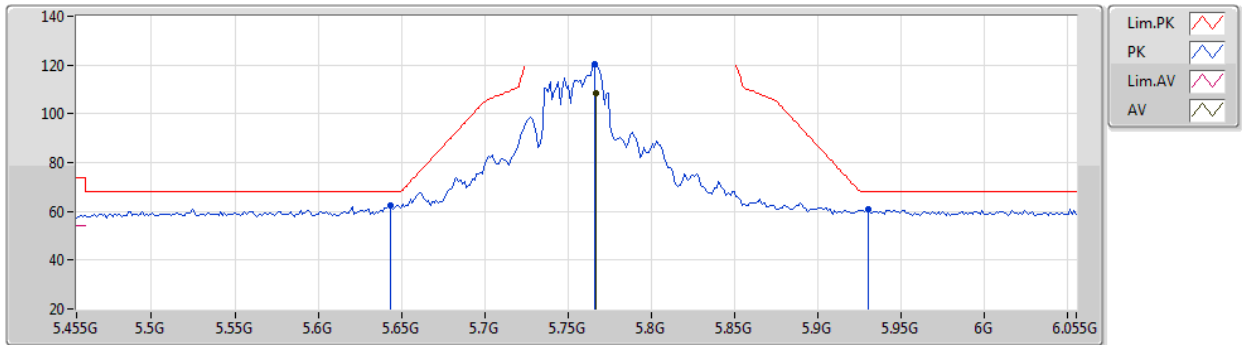


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.65006G	51.93	54.00	-2.07	18.86	3	Horizontal	294	1.48	-	33.07	39.35	13.71	34.20
PK	11.65024G	61.20	74.00	-12.80	18.86	3	Horizontal	294	1.48	-	42.34	39.35	13.71	34.20
PK	17.4716G	67.98	68.20	-0.22	24.71	3	Horizontal	27	1.49	-	43.27	43.45	14.78	33.52

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5755MHz_TX

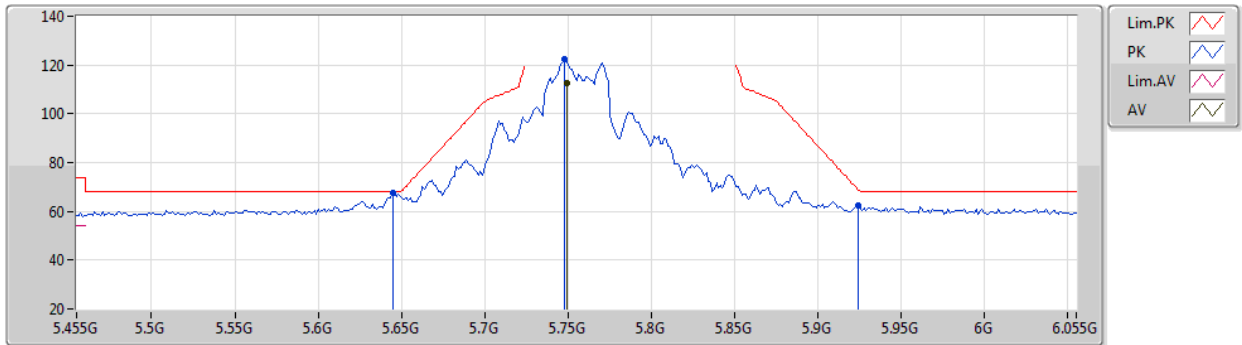


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.767G	108.64	Inf	-Inf	8.37	3	Vertical	196	1.50	-	100.27	32.00	10.45	34.08
PK	5.6434G	62.51	68.20	-5.69	7.92	3	Vertical	196	1.50	-	54.59	31.69	10.30	34.07
PK	5.7658G	120.11	Inf	-Inf	8.37	3	Vertical	196	1.50	-	111.74	32.00	10.45	34.08
PK	5.9302G	61.12	68.20	-7.08	8.87	3	Vertical	196	1.50	-	52.25	32.40	10.55	34.08

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5755MHz_TX

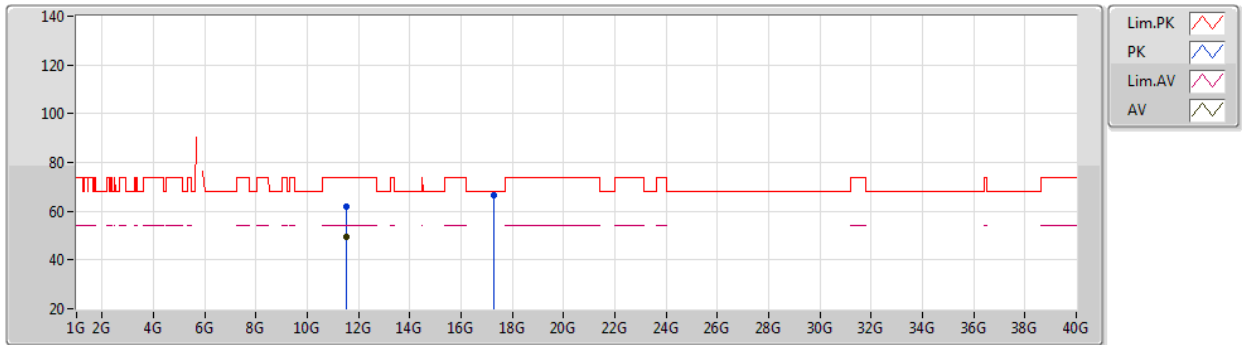


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.749G	112.49	Inf	-Inf	8.30	3	Horizontal	85	1.36	-	104.19	31.95	10.42	34.07
PK	5.6446G	67.81	68.20	-0.39	7.92	3	Horizontal	85	1.36	-	59.89	31.69	10.30	34.07
PK	5.7478G	122.62	Inf	-Inf	8.29	3	Horizontal	85	1.36	-	114.33	31.94	10.42	34.07
PK	5.9242G	62.27	68.79	-6.52	8.87	3	Horizontal	85	1.36	-	53.40	32.40	10.55	34.08

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5755MHz_TX

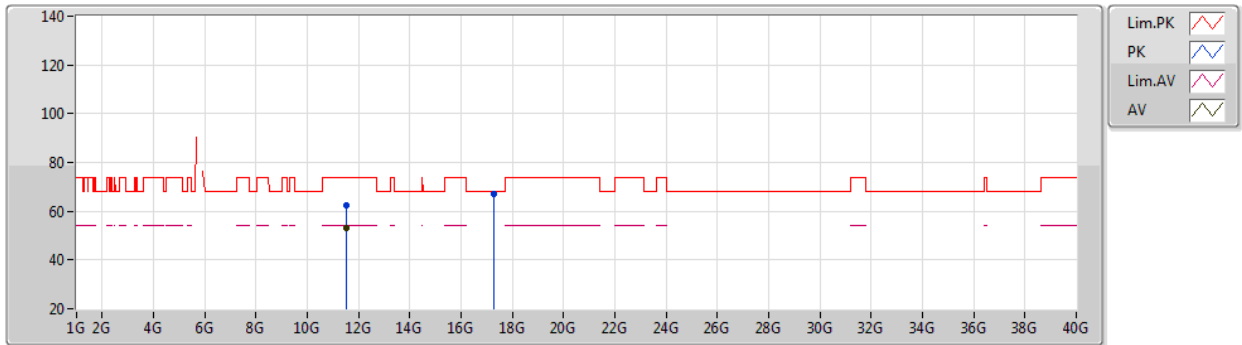


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.51004G	49.50	54.00	-4.50	18.98	3	Vertical	227	2.45	-	30.52	39.54	13.63	34.19
PK	11.50991G	61.65	74.00	-12.35	18.98	3	Vertical	227	2.45	-	42.67	39.54	13.63	34.19
PK	17.26676G	66.31	68.20	-1.89	23.20	3	Vertical	200	1.50	-	43.11	42.04	14.64	33.48

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5755MHz_TX

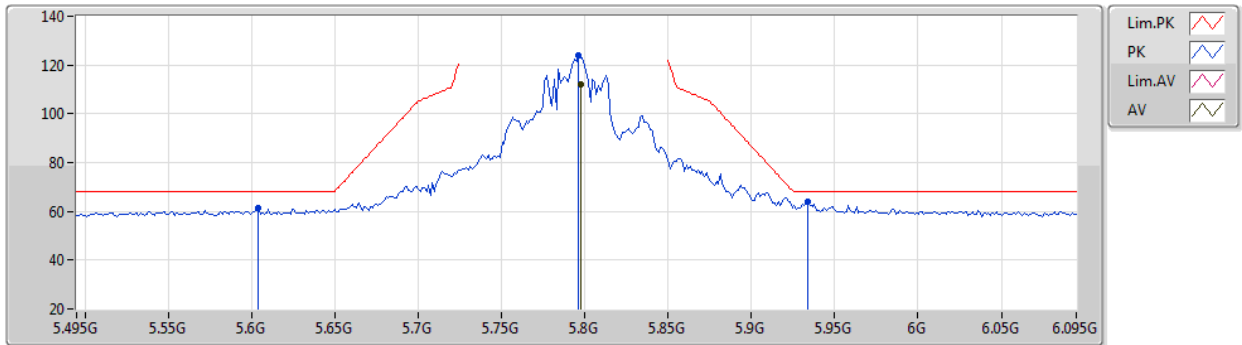


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.51001G	52.94	54.00	-1.06	18.98	3	Horizontal	290	1.45	-	33.96	39.54	13.63	34.19
PK	11.5102G	62.58	74.00	-11.42	18.98	3	Horizontal	290	1.45	-	43.60	39.54	13.63	34.19
PK	17.26668G	67.11	68.20	-1.09	23.20	3	Horizontal	16	1.00	-	43.91	42.04	14.64	33.48

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5795MHz_TX

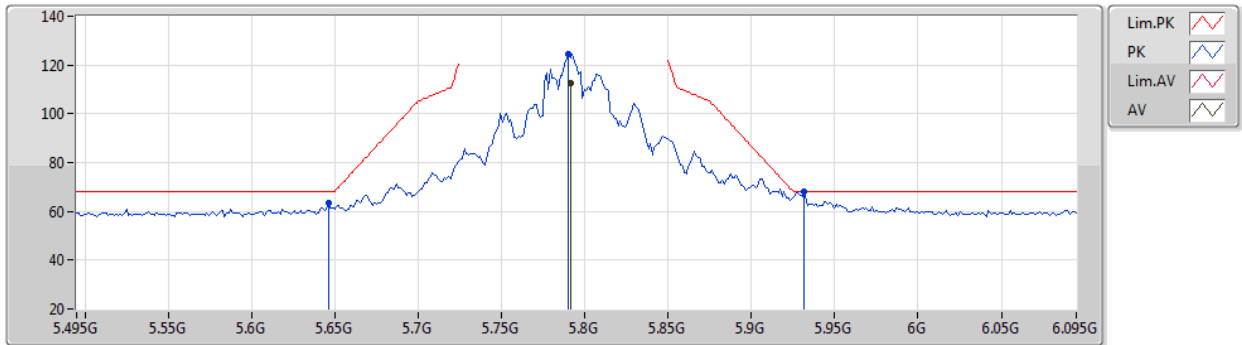


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7974G	112.13	Inf	-Inf	8.49	3	Vertical	23	1.93	-	103.64	32.09	10.48	34.08
PK	5.6042G	61.32	68.20	-6.88	7.79	3	Vertical	23	1.93	-	53.53	31.61	10.25	34.07
PK	5.7962G	123.84	Inf	-Inf	8.49	3	Vertical	23	1.93	-	115.35	32.09	10.48	34.08
PK	5.9342G	64.15	68.20	-4.05	8.87	3	Vertical	23	1.93	-	55.28	32.40	10.55	34.08

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5795MHz_TX

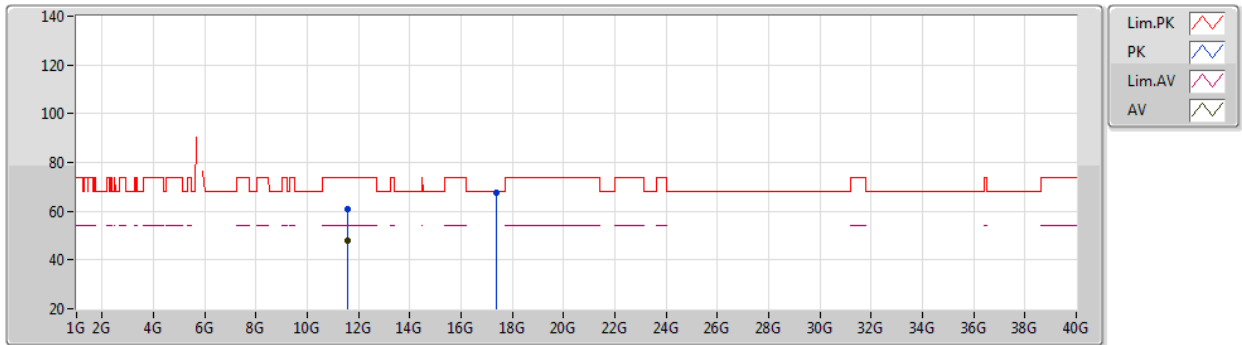


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7914G	112.58	Inf	-Inf	8.47	3	Horizontal	88	1.27	-	104.11	32.07	10.48	34.08
PK	5.6462G	63.28	68.20	-4.92	7.92	3	Horizontal	88	1.27	-	55.36	31.69	10.30	34.07
PK	5.7902G	124.54	Inf	-Inf	8.47	3	Horizontal	88	1.27	-	116.07	32.07	10.48	34.08
PK	5.9318G	67.96	68.20	-0.24	8.87	3	Horizontal	88	1.27	-	59.09	32.40	10.55	34.08

802.11ax HEW40_Nss1,(MCS0)_8TX

17/10/2019

5795MHz_TX

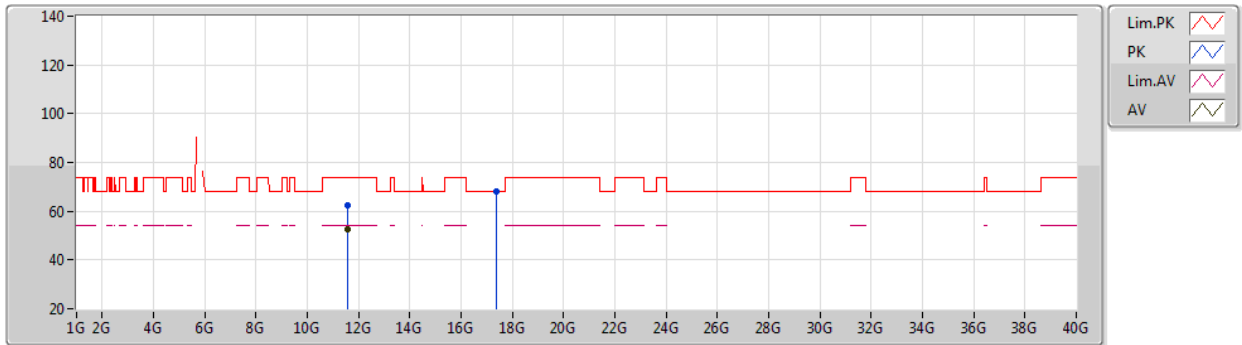


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.59011G	47.88	54.00	-6.12	18.91	3	Vertical	0	1.50	-	28.97	39.43	13.68	34.20
PK	11.58976G	60.91	74.00	-13.09	18.91	3	Vertical	0	1.50	-	42.00	39.43	13.68	34.20
PK	17.3804G	67.70	68.20	-0.50	24.03	3	Vertical	334	1.07	-	43.67	42.82	14.72	33.51

802.11ax HEW40_Nss1,(MCS0)_8TX

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5795MHz_TX

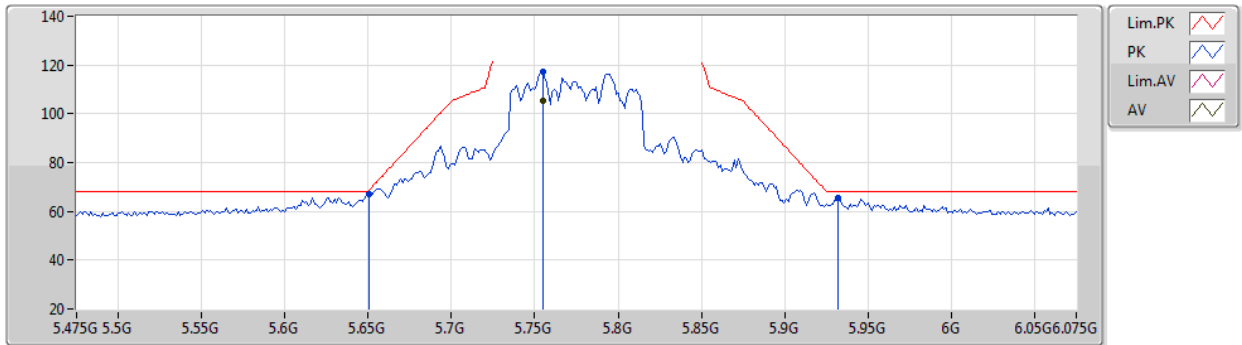


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.59002G	52.54	54.00	-1.46	18.91	3	Horizontal	296	1.47	-	33.63	39.43	13.68	34.20
PK	11.59011G	62.37	74.00	-11.63	18.91	3	Horizontal	296	1.47	-	43.46	39.43	13.68	34.20
PK	17.38202G	67.95	68.20	-0.25	24.05	3	Horizontal	24	1.04	-	43.90	42.84	14.72	33.51

802.11ax HEW80_Nss1,(MCS0)_8TX

17/10/2019

5775MHz_TX

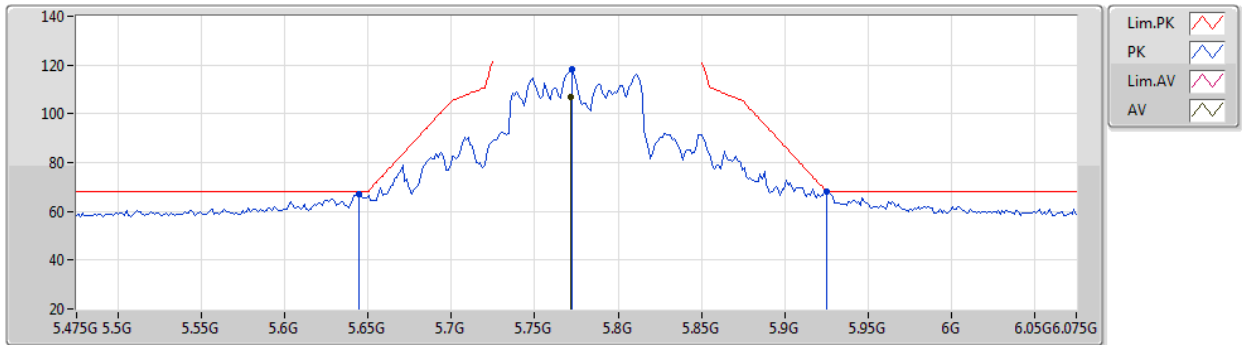


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7546G	105.54	Inf	-Inf	8.31	3	Vertical	271	2.98	-	97.23	31.96	10.43	34.08
PK	5.6502G	67.12	68.35	-1.23	7.93	3	Vertical	271	2.98	-	59.19	31.70	10.30	34.07
PK	5.7546G	117.28	Inf	-Inf	8.31	3	Vertical	271	2.98	-	108.97	31.96	10.43	34.08
PK	5.9322G	65.47	68.20	-2.73	8.87	3	Vertical	271	2.98	-	56.60	32.40	10.55	34.08

802.11ax HEW80_Nss1,(MCS0)_8TX

17/10/2019

5775MHz_TX

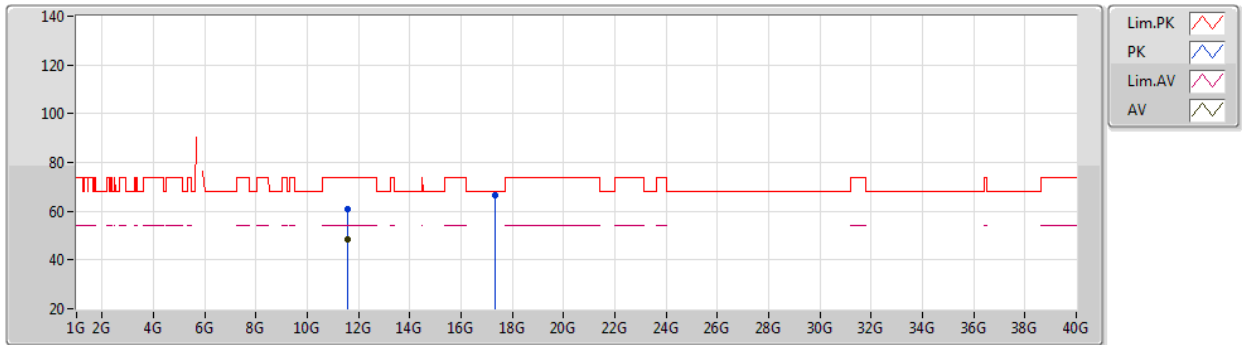


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.7714G	106.93	Inf	-Inf	8.38	3	Horizontal	88	1.25	-	98.55	32.01	10.45	34.08
PK	5.6442G	66.83	68.20	-1.37	7.92	3	Horizontal	88	1.25	-	58.91	31.69	10.30	34.07
PK	5.7726G	118.49	Inf	-Inf	8.39	3	Horizontal	88	1.25	-	110.10	32.02	10.45	34.08
PK	5.925G	67.89	68.20	-0.31	8.87	3	Horizontal	88	1.25	-	59.02	32.40	10.55	34.08

802.11ax HEW80_Nss1,(MCS0)_8TX

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5775MHz_TX

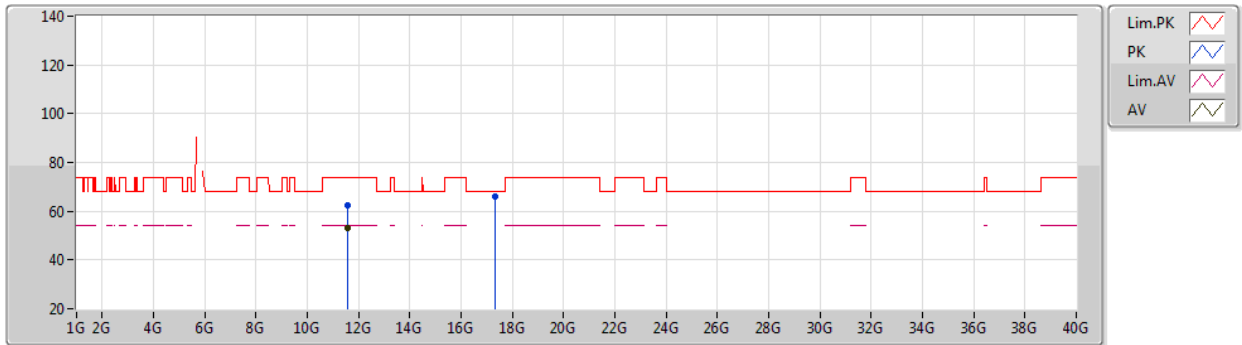


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.54996G	48.21	54.00	-5.79	18.95	3	Vertical	224	2.87	-	29.26	39.49	13.65	34.19
PK	11.55007G	60.83	74.00	-13.17	18.94	3	Vertical	224	2.87	-	41.89	39.48	13.65	34.19
PK	17.32448G	66.30	68.20	-1.90	23.63	3	Vertical	47	1.50	-	42.67	42.44	14.68	33.49

802.11ax HEW80_Nss1,(MCS0)_8TX

17/10/2019

5775MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.54992G	52.92	54.00	-1.08	18.95	3	Horizontal	320	1.42	-	33.97	39.49	13.65	34.19
PK	11.54998G	62.21	74.00	-11.79	18.95	3	Horizontal	320	1.42	-	43.26	39.49	13.65	34.19
PK	17.32291G	66.25	68.20	-1.95	23.62	3	Horizontal	357	1.50	-	42.63	42.43	14.68	33.49

Summary

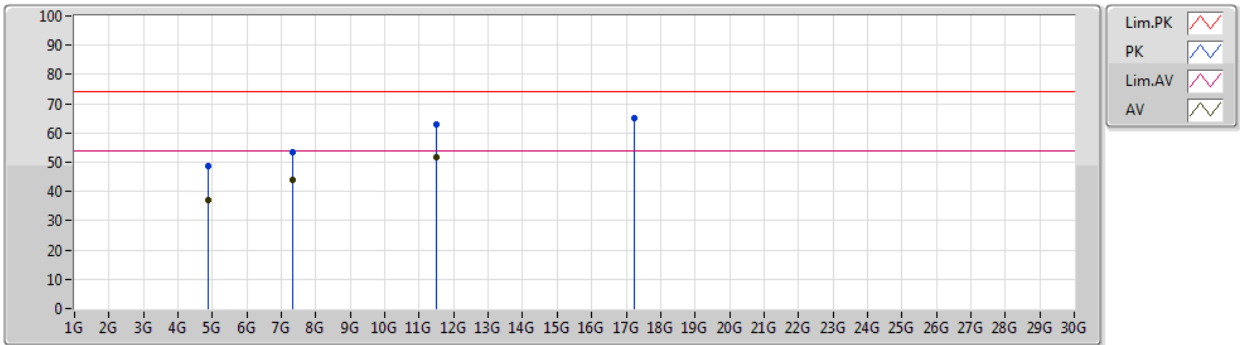
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Condition
Mode 1	Pass	PK	11.49003G	53.88	54.00	-0.12	18.99	Horizontal

Mode Configure

Mode	Configure
Mode 1	2.4G+5G

Radiation-above 1GHz_Mode 1

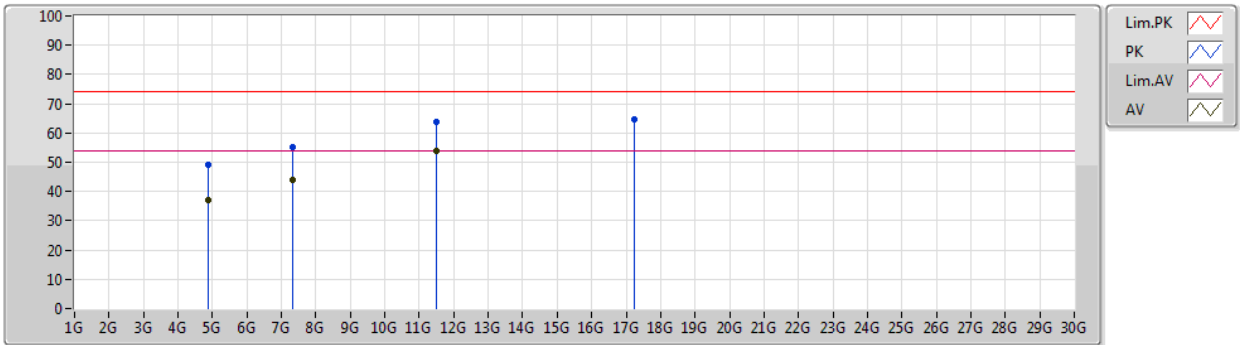
17/10/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87306G	37.22	54.00	-16.78	7.03	3	Vertical	101	2.99	-	30.19	31.10	9.98	34.05
AV	7.3149G	43.89	54.00	-10.11	13.32	3	Vertical	50	2.46	-	30.57	36.29	11.30	34.27
AV	11.48992G	51.58	54.00	-2.42	18.99	3	Vertical	230	2.48	-	32.59	39.56	13.62	34.19
PK	4.87378G	48.72	74.00	-25.28	7.03	3	Vertical	101	2.99	-	41.69	31.10	9.98	34.05
PK	7.31024G	53.34	74.00	-20.66	13.32	3	Vertical	50	2.46	-	40.02	36.29	11.30	34.27
PK	11.48988G	62.75	74.00	-11.25	18.99	3	Vertical	230	2.48	-	43.76	39.56	13.62	34.19
PK	17.23634G	64.92	74.00	-9.08	22.96	3	Vertical	48	1.69	-	41.96	41.83	14.61	33.48

Radiation-above 1GHz_Mode 1

17/10/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87402G	36.95	54.00	-17.05	7.03	3	Horizontal	79	1.30	-	29.92	31.10	9.98	34.05
AV	7.31044G	43.80	54.00	-10.20	13.32	3	Horizontal	294	2.31	-	30.48	36.29	11.30	34.27
AV	11.49003G	53.88	54.00	-0.12	18.99	3	Horizontal	293	1.50	-	34.89	39.56	13.62	34.19
PK	4.87402G	48.93	74.00	-25.07	7.03	3	Horizontal	79	1.30	-	41.90	31.10	9.98	34.05
PK	7.31135G	54.98	74.00	-19.02	13.32	3	Horizontal	294	2.31	-	41.66	36.29	11.30	34.27
PK	11.49012G	63.65	74.00	-10.35	18.99	3	Horizontal	293	1.50	-	44.66	39.56	13.62	34.19
PK	17.2331G	64.45	74.00	-9.55	22.94	3	Horizontal	160	2.17	-	41.51	41.81	14.61	33.48