

FCC Radio Test Report

FCC ID : HDC-649B
Equipment : WiFi6 module
Brand Name : **ADTRAN**[®]
Model Name : W649bYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")
Applicant : Adtran
901 Explorer Blvd., Huntsville, AL 35806, USA
Manufacturer : XAVi Technologies Corporation
22F., No.69, Sec. 2, Guangfu Rd., Sanchong Dist., New Taipei City 241, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.407

The product was received on Aug. 31, 2021, and testing was started from Sep. 09, 2021 and completed on Sep. 18, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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TEL : 886-3-3273456
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Report Template No.: HE1-D1 Ver4.2
FCC ID: HDC-649B

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: Ben Tseng

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5850	a, n (HT20), ac (VHT20), ax(HEW20)	5745-5825	149-165 [5]
5725-5850	n (HT40), ac (VHT40), ax(HEW40)	5755-5795	151-159 [2]
5725-5850	ac (VHT80) , ax(HEW80)	5775	155 [1]

Non-Beamforming

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11ax HEW20	20	4TX
5.725-5.85GHz	802.11ax HEW40	40	4TX
5.725-5.85GHz	802.11ax HEW80	80	4TX

Beamforming

Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11ax HEW20-BF	20	4TX
5.725-5.85GHz	802.11ax HEW40-BF	40	4TX
5.725-5.85GHz	802.11ax HEW80-BF	80	4TX

Note:

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	GALTRONICS	60-3523-03-2	PCB	U.FL	3.99
2	GALTRONICS	60-2888-03-2	PCB	U.FL	3.99
3	GALTRONICS	60-2791-03	PCB	U.FL	2.12
4	GALTRONICS	60-2808-03	PCB	U.FL	2.12

Note 1: The EUT has four antennas.

For 5GHz function:

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

Ant. 1~4 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Test Fixture		
EUT Function	☐	Outdoor AP	☒ Indoor AP
	☐	Fixed P2P AP	☐ Outdoor/Indoor Client
Beamforming Function	☒	With beamforming	☐ Without beamforming
Resource Unit(802.11ax)	☒	Full RU	☐ Partial RU
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

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11a_Nss1,(6Mbps)_4TX	0.859	0.66	1.397m	1k
802.11ax HEW20_Nss1,(MCS0)_4TX	0.613	2.13	312.5u	10k
802.11ax HEW40_Nss1,(MCS0)_4TX	0.601	2.21	312.5u	10k
802.11ax HEW80_Nss1,(MCS0)_4TX	0.598	2.23	297.188u	10k

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

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq$ 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	0.973	0.12	3.784m	300
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	0.954	0.2	1.921m	1k
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	0.908	0.42	945.938u	3k

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

1.1.5 Table for Multiple Listing

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

Model Name	Description
W649bYYYYYY(Y can be 0-9, a-z, A-Z, blank, "+" or "-" or "#")	All the models are identical, the different model served as marketing strategy.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 789033 D02 v02r01

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel Lin	20.1~22.6°C / 54~62%	18/Sep/2021
RF Conducted	TH06-HY	Johnny Yu	20.1~26.9°C / 50~60%	15/Sep/2021
Radiated	03CH02-HY	Daniel Lin	20.8~26.7°C / 52~64%	09/Sep/2021~11/Sep/2021
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Non-Beamforming

Test Software	QATool_Dbg
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5745MHz	21.5
5785MHz	22
5825MHz	23
802.11ax HEW20_Nss1,(MCS0)_4TX	-
5745MHz	20.5
5785MHz	20.5
5825MHz	21.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
5755MHz	20
5795MHz	20.5
802.11ax HEW80_Nss1,(MCS0)_4TX	-
5775MHz	19

Beamforming

Test Software	CMD
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Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
5745MHz	34
5785MHz	35
5825MHz	35
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
5755MHz	33
5795MHz	34
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-
5775MHz	33

2.2 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 Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Test Fixture 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	Test Fixture Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

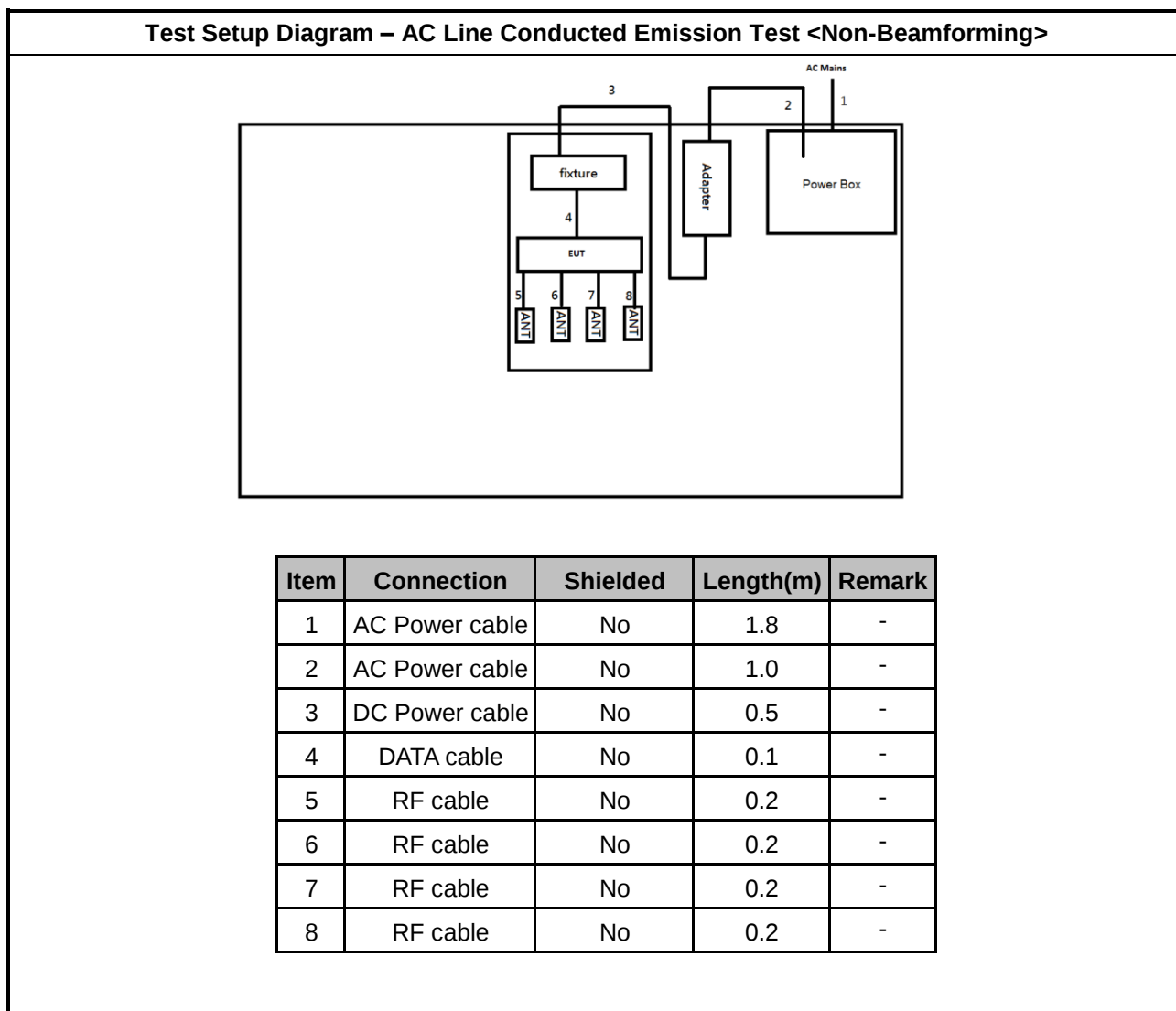


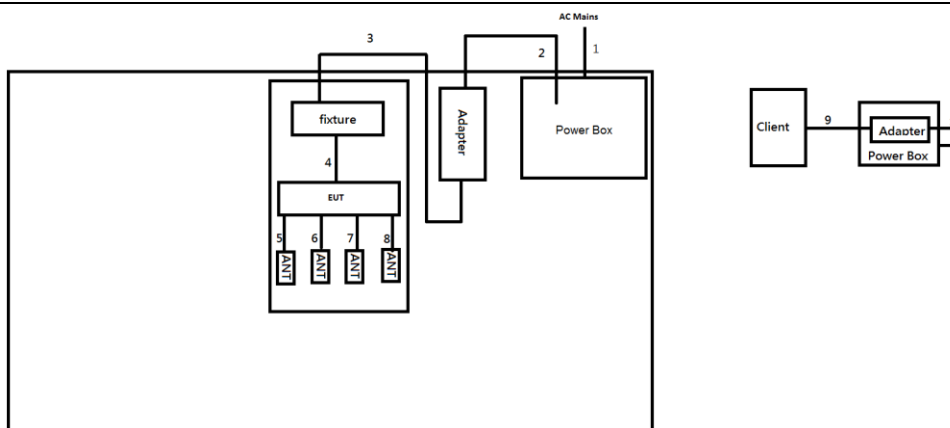
2.3 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	ADTRAN	841-T6	-	-
4	Adapter for Fixture	MASS POWER	S050-1A120400B3	-	-
5	BF Client	ADTRAN	841-T6	-	-
6	Adapter for BF Client	MASS POWER	S050-1A120400B3	-	-

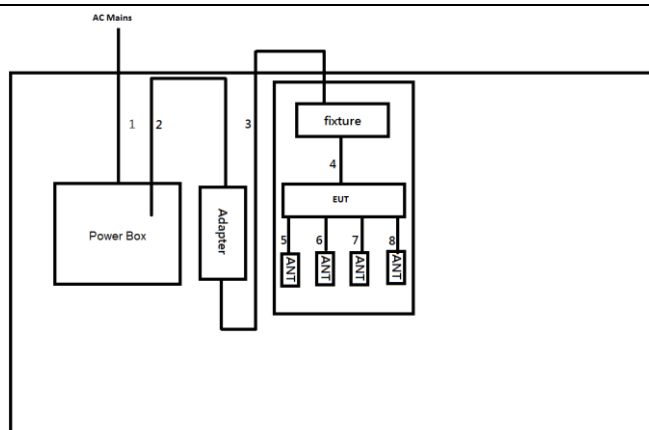
Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture	ADTRAN	841-T6	-	Provided by Customer
2	Adapter	MASS POWER	S050-1A120400B3	-	Provided by Customer
3	Client	ADTRAN	841-T6	-	Remote / Provided by Customer
4	Adapter	MASS POWER	S050-1A120400B3	-	Remote / Provided by Customer

2.4 Test Setup Diagram

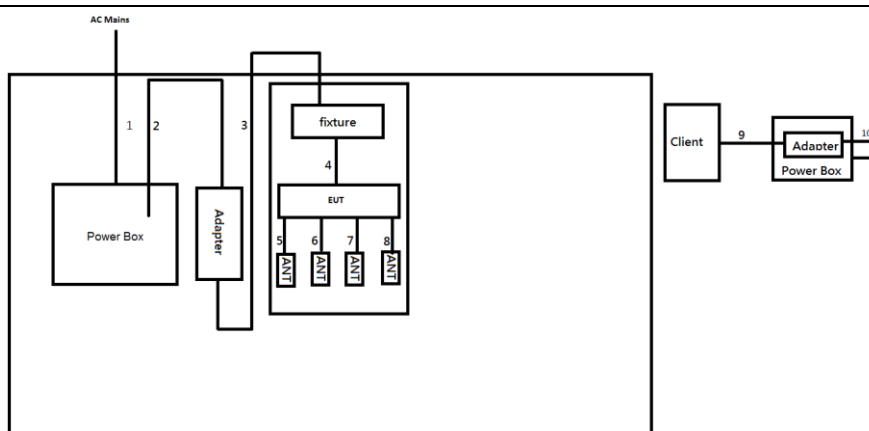


Test Setup Diagram – AC Line Conducted Emission Test <Beamforming>


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.0	-
3	DC Power cable	No	0.5	-
4	DATA cable	No	0.1	-
5	RF cable	No	0.2	-
6	RF cable	No	0.2	-
7	RF cable	No	0.2	-
8	RF cable	No	0.2	-
9	DC Power cable	No	0.5	-
10	AC Power cable	No	1.0	-

Test Setup Diagram - Radiated Test <Non-Beamforming>


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.0	-
3	DC Power cable	No	0.5	-
4	DATA cable	No	0.1	-
5	RF cable	No	0.2	-
6	RF cable	No	0.2	-
7	RF cable	No	0.2	-
8	RF cable	No	0.2	-

Test Setup Diagram - Radiated Test <Beamforming>


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.0	-
3	DC Power cable	No	0.5	-
4	DATA cable	No	0.1	-
5	RF cable	No	0.2	-
6	RF cable	No	0.2	-
7	RF cable	No	0.2	-
8	RF cable	No	0.2	-
9	DC Power cable	No	0.5	-
10	AC Power cable	No	1.0	-

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

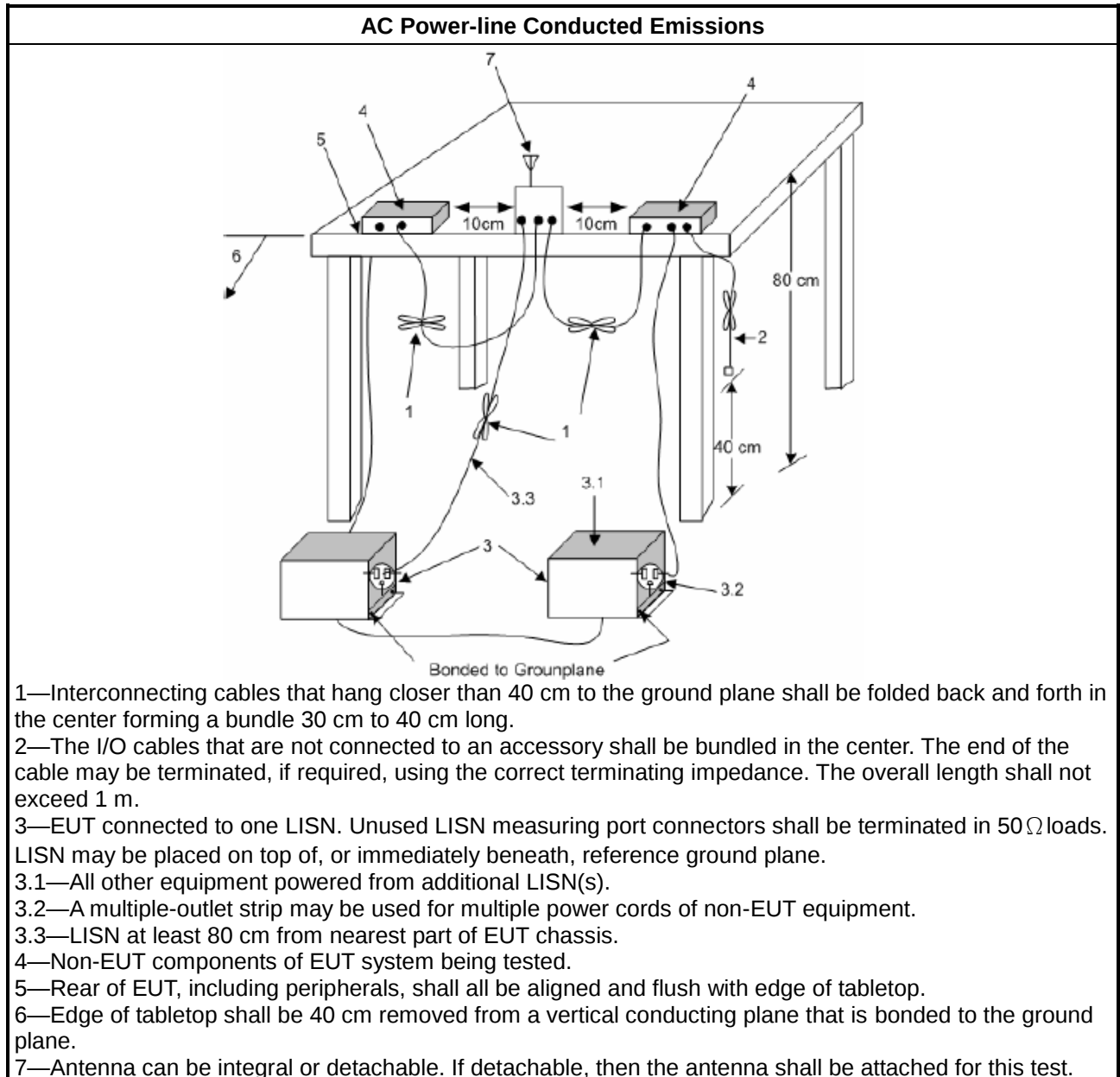
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 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.

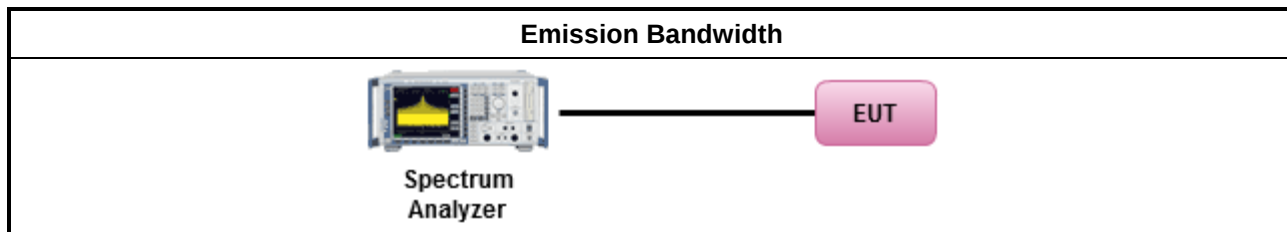
3.2.2 Measuring Instruments

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.	

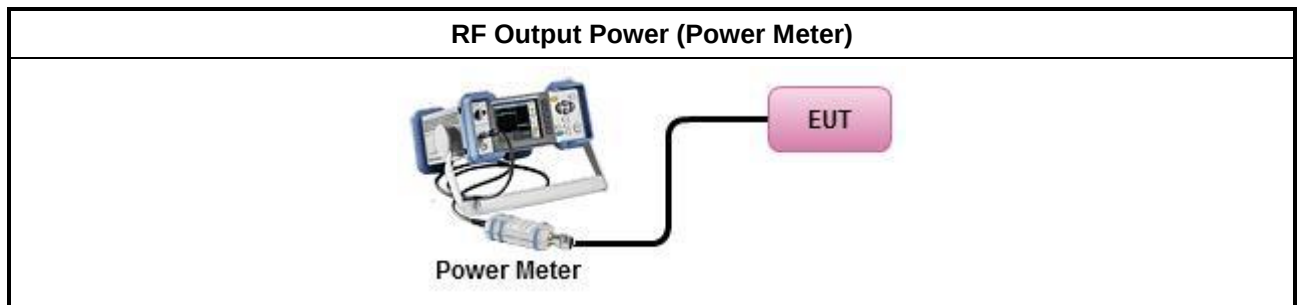
3.3.2 Measuring Instruments

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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

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 he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz G_{TX} = the maximum transmitting antenna directional gain in dBi.	

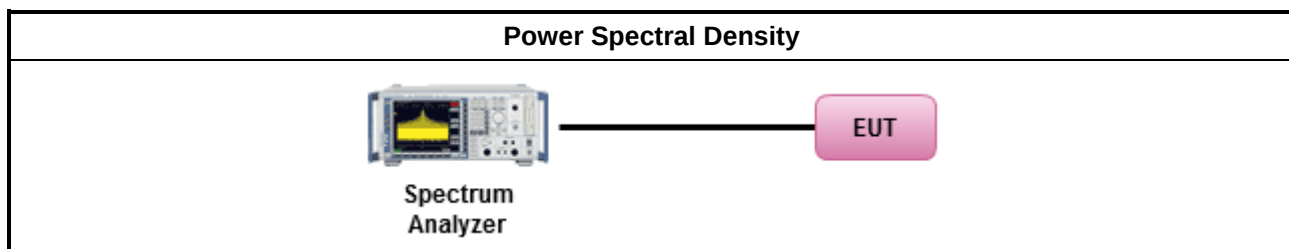
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
☐ Refer as KDB 789033, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
Duty cycle ≥ 98%	
☐ Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).	
Duty cycle < 98%	
☒ Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☐ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (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

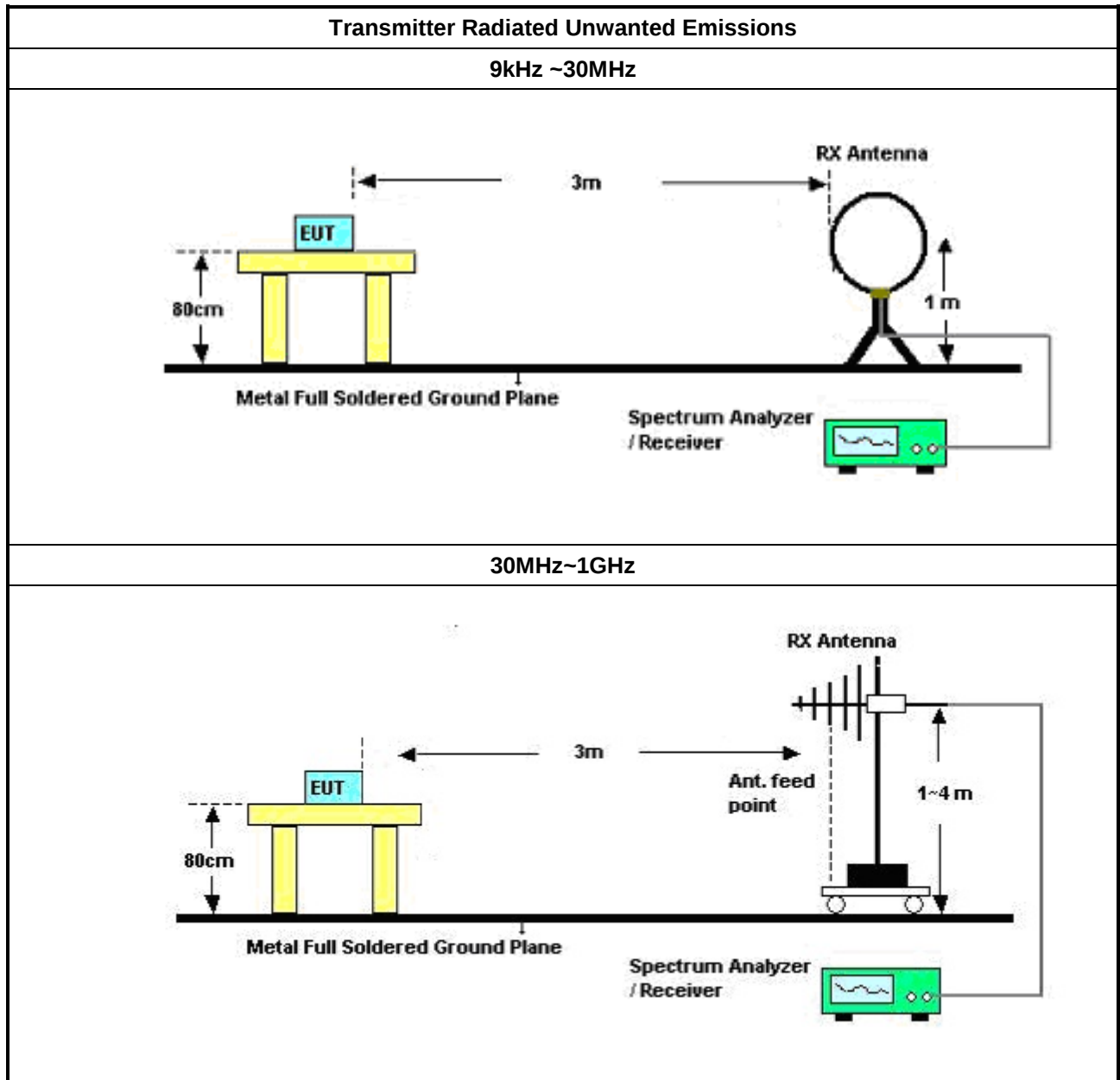
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 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.

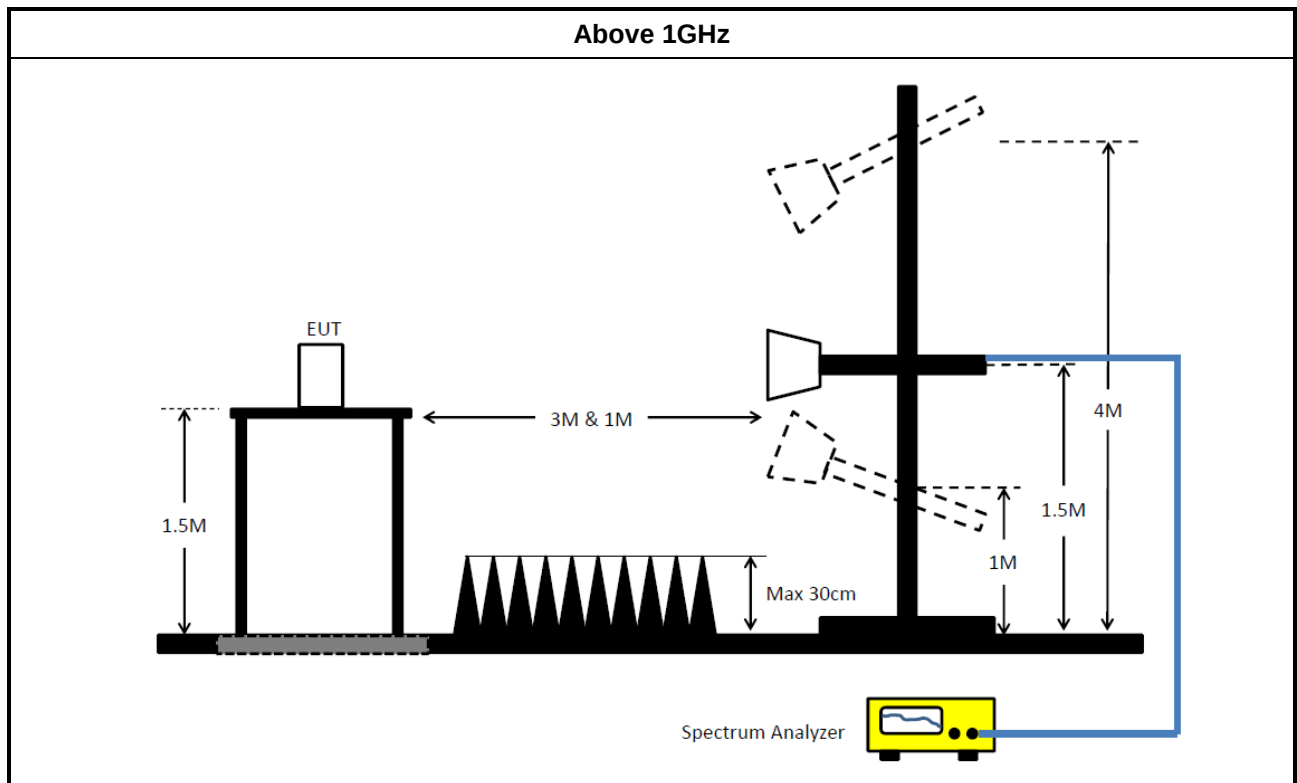
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 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.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	19/Apr/2021	18/Apr/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	15/Sep/2021	14/Sep/2022

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	25/Mar/2021	24/Mar/2022
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	25/Mar/2021	24/Mar/2022

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	23/Oct/2020	22/Oct/2021
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022



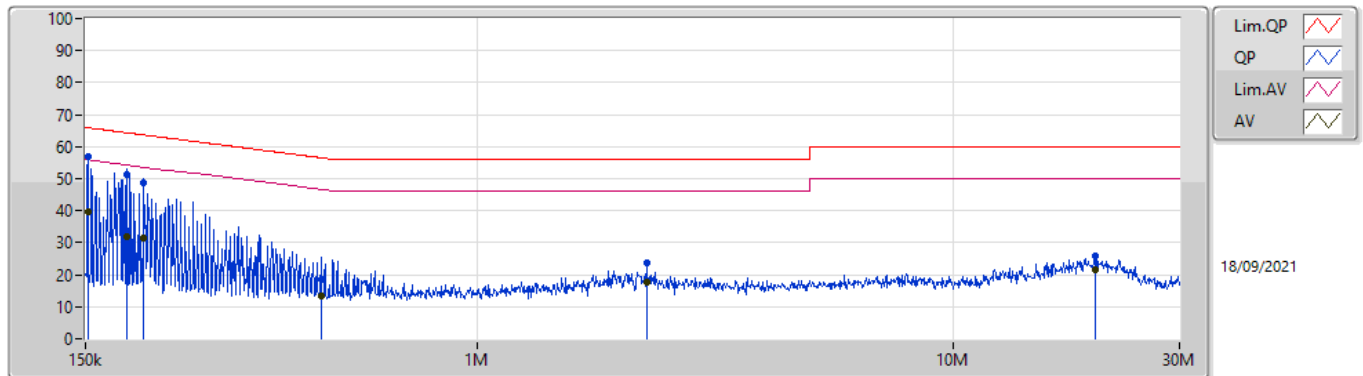
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	151.807k	57.09	65.90	-8.81	Line

Mode Configure

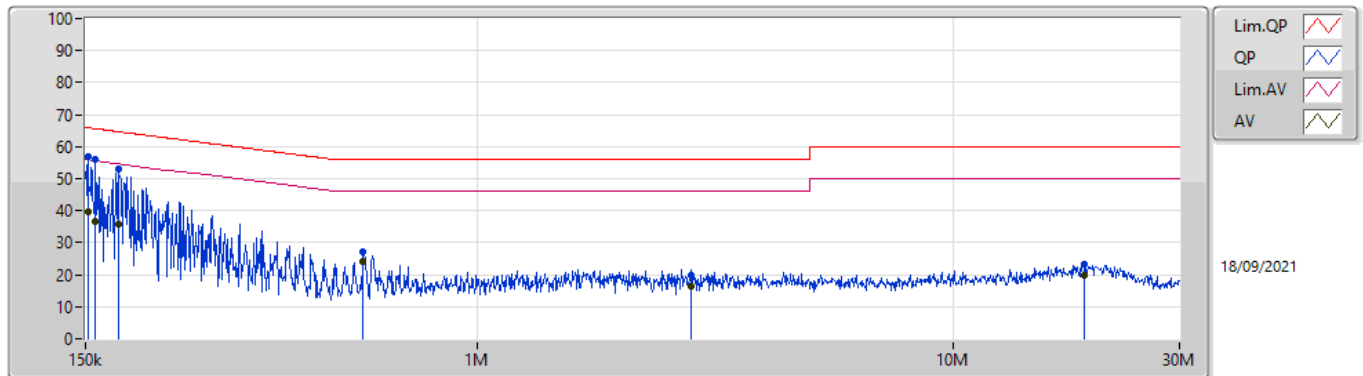
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.807k	57.09	65.90	-8.81	Line	-
Mode 1	Pass	AV	151.807k	39.84	55.90	-16.06	Line	-
Mode 1	Pass	QP	183.87k	51.10	64.30	-13.20	Line	-
Mode 1	Pass	AV	183.87k	32.01	54.30	-22.29	Line	-
Mode 1	Pass	QP	199.152k	48.60	63.65	-15.05	Line	-
Mode 1	Pass	AV	199.152k	31.61	53.65	-22.04	Line	-
Mode 1	Pass	QP	469.822k	18.64	56.52	-37.88	Line	-
Mode 1	Pass	AV	469.822k	13.32	46.52	-33.20	Line	-
Mode 1	Pass	QP	2.274M	23.87	56.00	-32.13	Line	-
Mode 1	Pass	AV	2.274M	17.56	46.00	-28.44	Line	-
Mode 1	Pass	QP	19.948M	25.74	60.00	-34.26	Line	-
Mode 1	Pass	AV	19.948M	21.49	50.00	-28.51	Line	-
Mode 1	Pass	QP	151.807k	56.86	65.90	-9.04	Neutral	-
Mode 1	Pass	AV	151.807k	39.86	55.90	-16.04	Neutral	-
Mode 1	Pass	QP	157.361k	55.83	65.60	-9.77	Neutral	-
Mode 1	Pass	AV	157.361k	36.81	55.60	-18.79	Neutral	-
Mode 1	Pass	QP	176.674k	52.98	64.64	-11.66	Neutral	-
Mode 1	Pass	AV	176.674k	35.57	54.64	-19.07	Neutral	-
Mode 1	Pass	QP	575.907k	27.02	56.00	-28.98	Neutral	-
Mode 1	Pass	AV	575.907k	24.31	46.00	-21.69	Neutral	-
Mode 1	Pass	QP	2.81M	19.74	56.00	-36.26	Neutral	-
Mode 1	Pass	AV	2.81M	16.50	46.00	-29.50	Neutral	-
Mode 1	Pass	QP	18.939M	23.46	60.00	-36.54	Neutral	-
Mode 1	Pass	AV	18.939M	19.72	50.00	-30.28	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.807k	57.09	65.90	-8.81	19.62	Line	-	37.47	9.69	0.04	9.89			
AV	151.807k	39.84	55.90	-16.06	19.62	Line	-	20.22	9.69	0.04	9.89			
QP	183.87k	51.10	64.30	-13.20	19.61	Line	-	31.49	9.68	0.04	9.89			
AV	183.87k	32.01	54.30	-22.29	19.61	Line	-	12.40	9.68	0.04	9.89			
QP	199.152k	48.60	63.65	-15.05	19.61	Line	-	28.99	9.68	0.04	9.89			
AV	199.152k	31.61	53.65	-22.04	19.61	Line	-	12.00	9.68	0.04	9.89			
QP	469.822k	18.64	56.52	-37.88	19.62	Line	-	-0.98	9.67	0.06	9.89			
AV	469.822k	13.32	46.52	-33.20	19.62	Line	-	-6.30	9.67	0.06	9.89			
QP	2.274M	23.87	56.00	-32.13	19.67	Line	-	4.20	9.68	0.11	9.88			
AV	2.274M	17.56	46.00	-28.44	19.67	Line	-	-2.11	9.68	0.11	9.88			
QP	19.948M	25.74	60.00	-34.26	19.86	Line	-	5.88	9.67	0.30	9.89			
AV	19.948M	21.49	50.00	-28.51	19.86	Line	-	1.63	9.67	0.30	9.89			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.807k	56.86	65.90	-9.04	19.62	Neutral	-	37.24	9.69	0.04	9.89			
AV	151.807k	39.86	55.90	-16.04	19.62	Neutral	-	20.24	9.69	0.04	9.89			
QP	157.361k	55.83	65.60	-9.77	19.62	Neutral	-	36.21	9.69	0.04	9.89			
AV	157.361k	36.81	55.60	-18.79	19.62	Neutral	-	17.19	9.69	0.04	9.89			
QP	176.674k	52.98	64.64	-11.66	19.61	Neutral	-	33.37	9.68	0.04	9.89			
AV	176.674k	35.57	54.64	-19.07	19.61	Neutral	-	15.96	9.68	0.04	9.89			
QP	575.907k	27.02	56.00	-28.98	19.63	Neutral	-	7.39	9.67	0.07	9.89			
AV	575.907k	24.31	46.00	-21.69	19.63	Neutral	-	4.68	9.67	0.07	9.89			
QP	2.81M	19.74	56.00	-36.26	19.68	Neutral	-	0.06	9.68	0.12	9.88			
AV	2.81M	16.50	46.00	-29.50	19.68	Neutral	-	-3.18	9.68	0.12	9.88			
QP	18.939M	23.46	60.00	-36.54	19.93	Neutral	-	3.53	9.75	0.29	9.89			
AV	18.939M	19.72	50.00	-30.28	19.93	Neutral	-	-0.21	9.75	0.29	9.89			



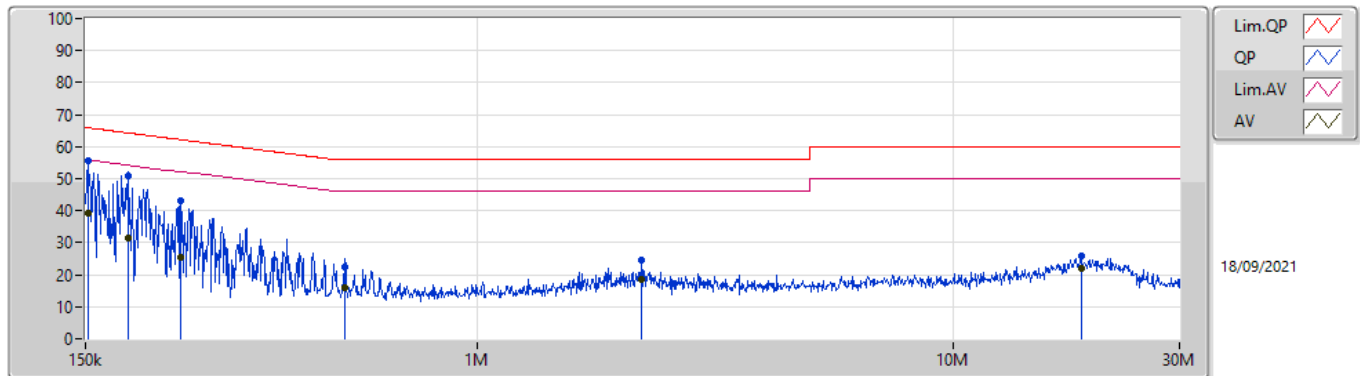
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	152.414k	55.60	65.87	-10.27	Line

Mode Configure

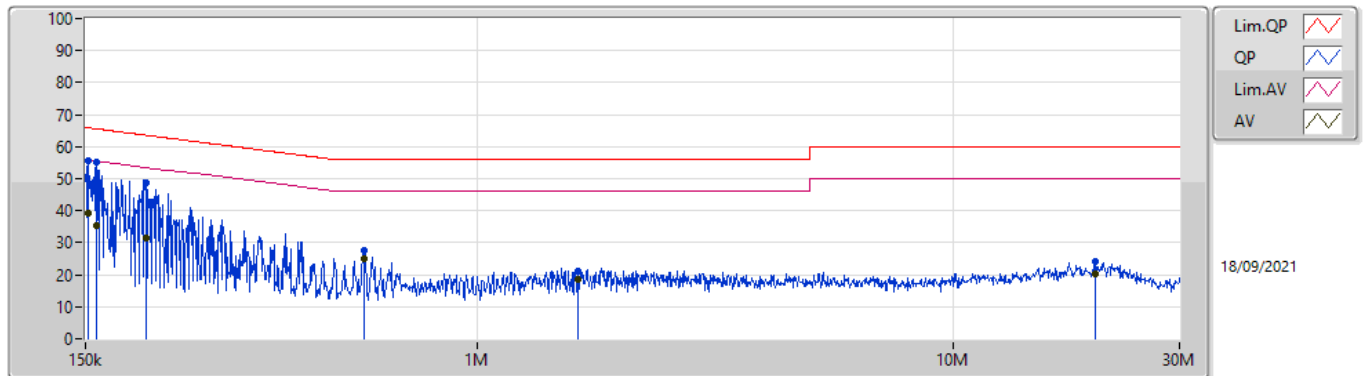
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	152.414k	55.60	65.87	-10.27	Line	-
Mode 1	Pass	AV	152.414k	39.02	55.87	-16.85	Line	-
Mode 1	Pass	QP	184.605k	51.00	64.28	-13.28	Line	-
Mode 1	Pass	AV	184.605k	31.66	54.28	-22.62	Line	-
Mode 1	Pass	QP	237.393k	43.31	62.20	-18.89	Line	-
Mode 1	Pass	AV	237.393k	25.29	52.20	-26.91	Line	-
Mode 1	Pass	QP	527.486k	22.43	56.00	-33.57	Line	-
Mode 1	Pass	AV	527.486k	15.74	46.00	-30.26	Line	-
Mode 1	Pass	QP	2.211M	24.74	56.00	-31.26	Line	-
Mode 1	Pass	AV	2.211M	18.68	46.00	-27.32	Line	-
Mode 1	Pass	QP	18.639M	26.06	60.00	-33.94	Line	-
Mode 1	Pass	AV	18.639M	21.96	50.00	-28.04	Line	-
Mode 1	Pass	QP	152.414k	55.59	65.87	-10.28	Neutral	-
Mode 1	Pass	AV	152.414k	39.20	55.87	-16.67	Neutral	-
Mode 1	Pass	QP	158.622k	55.25	65.54	-10.29	Neutral	-
Mode 1	Pass	AV	158.622k	35.44	55.54	-20.10	Neutral	-
Mode 1	Pass	QP	201.551k	48.89	63.55	-14.66	Neutral	-
Mode 1	Pass	AV	201.551k	31.59	53.55	-21.96	Neutral	-
Mode 1	Pass	QP	578.211k	27.51	56.00	-28.49	Neutral	-
Mode 1	Pass	AV	578.211k	25.16	46.00	-20.84	Neutral	-
Mode 1	Pass	QP	1.632M	21.10	56.00	-34.90	Neutral	-
Mode 1	Pass	AV	1.632M	18.65	46.00	-27.35	Neutral	-
Mode 1	Pass	QP	19.948M	24.02	60.00	-35.98	Neutral	-
Mode 1	Pass	AV	19.948M	20.12	50.00	-29.88	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	55.60	65.87	-10.27	19.62	Line	-	35.98	9.69	0.04	9.89			
AV	152.414k	39.02	55.87	-16.85	19.62	Line	-	19.40	9.69	0.04	9.89			
QP	184.605k	51.00	64.28	-13.28	19.61	Line	-	31.39	9.68	0.04	9.89			
AV	184.605k	31.66	54.28	-22.62	19.61	Line	-	12.05	9.68	0.04	9.89			
QP	237.393k	43.31	62.20	-18.89	19.61	Line	-	23.70	9.68	0.04	9.89			
AV	237.393k	25.29	52.20	-26.91	19.61	Line	-	5.68	9.68	0.04	9.89			
QP	527.486k	22.43	56.00	-33.57	19.63	Line	-	2.80	9.67	0.07	9.89			
AV	527.486k	15.74	46.00	-30.26	19.63	Line	-	-3.89	9.67	0.07	9.89			
QP	2.211M	24.74	56.00	-31.26	19.67	Line	-	5.07	9.68	0.11	9.88			
AV	2.211M	18.68	46.00	-27.32	19.67	Line	-	-0.99	9.68	0.11	9.88			
QP	18.639M	26.06	60.00	-33.94	19.86	Line	-	6.20	9.68	0.29	9.89			
AV	18.639M	21.96	50.00	-28.04	19.86	Line	-	2.10	9.68	0.29	9.89			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	55.59	65.87	-10.28	19.62	Neutral	-	35.97	9.69	0.04	9.89			
AV	152.414k	39.20	55.87	-16.67	19.62	Neutral	-	19.58	9.69	0.04	9.89			
QP	158.622k	55.25	65.54	-10.29	19.62	Neutral	-	35.63	9.69	0.04	9.89			
AV	158.622k	35.44	55.54	-20.10	19.62	Neutral	-	15.82	9.69	0.04	9.89			
QP	201.551k	48.89	63.55	-14.66	19.61	Neutral	-	29.28	9.68	0.04	9.89			
AV	201.551k	31.59	53.55	-21.96	19.61	Neutral	-	11.98	9.68	0.04	9.89			
QP	578.211k	27.51	56.00	-28.49	19.63	Neutral	-	7.88	9.67	0.07	9.89			
AV	578.211k	25.16	46.00	-20.84	19.63	Neutral	-	5.53	9.67	0.07	9.89			
QP	1.632M	21.10	56.00	-34.90	19.65	Neutral	-	1.45	9.68	0.09	9.88			
AV	1.632M	18.65	46.00	-27.35	19.65	Neutral	-	-1.00	9.68	0.09	9.88			
QP	19.948M	24.02	60.00	-35.98	19.94	Neutral	-	4.08	9.75	0.30	9.89			
AV	19.948M	20.12	50.00	-29.88	19.94	Neutral	-	0.18	9.75	0.30	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	15.09M	24.438M	24M4D1D	14.97M	17.811M
802.11ax HEW20_Nss1,(MCS0)_4TX	15.57M	23.478M	23M5D1D	15.09M	19.22M
802.11ax HEW40_Nss1,(MCS0)_4TX	35.1M	38.921M	38M9D1D	35.04M	38.381M
802.11ax HEW80_Nss1,(MCS0)_4TX	75.12M	77.721M	77M7D1D	75.12M	77.361M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	15.03M	18.441M	15.03M	18.021M	15.09M	18.441M	15.09M	17.811M
5785MHz	Pass	500k	14.97M	19.34M	15.09M	18.111M	15.03M	18.621M	15.09M	18.261M
5825MHz	Pass	500k	15.06M	23.538M	15.09M	24.438M	15.09M	24.168M	15.06M	21.649M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	15.12M	19.64M	15.12M	19.46M	15.3M	19.58M	15.15M	19.34M
5785MHz	Pass	500k	15.12M	19.52M	15.3M	19.22M	15.12M	19.37M	15.57M	19.37M
5825MHz	Pass	500k	15.12M	22.099M	15.12M	23.358M	15.09M	23.478M	15.15M	20.66M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	35.1M	38.741M	35.04M	38.561M	35.04M	38.921M	35.04M	38.441M
5795MHz	Pass	500k	35.04M	38.741M	35.1M	38.381M	35.04M	38.681M	35.04M	38.621M
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.12M	77.721M	75.12M	77.481M	75.12M	77.601M	75.12M	77.361M

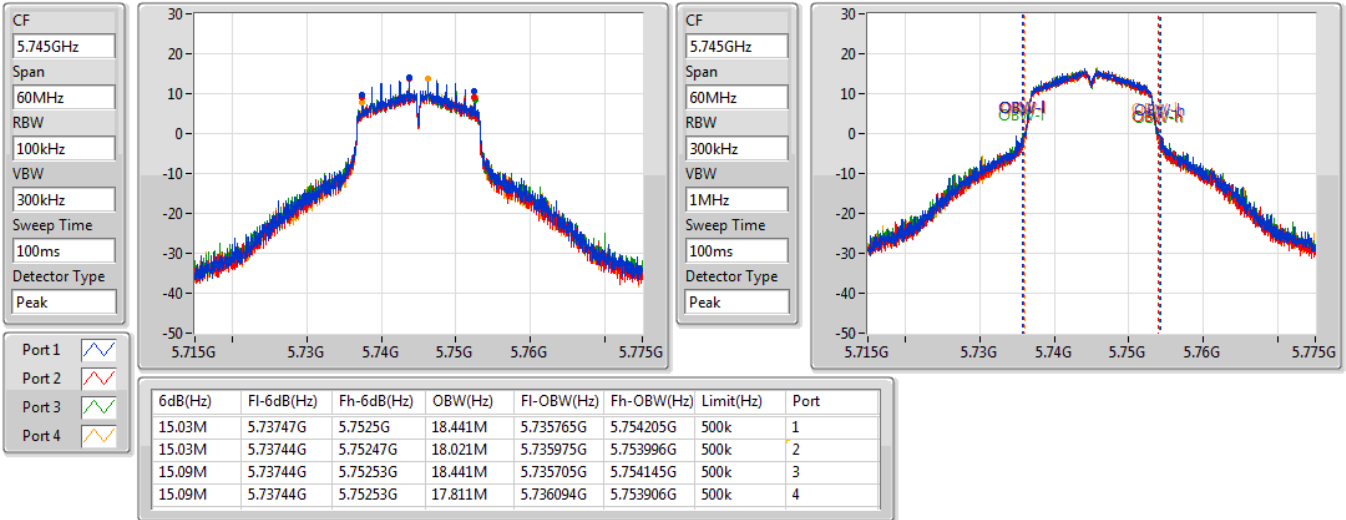
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11a_Nss1,(6Mbps)_4TX

EBW

5745MHz

15/09/2021

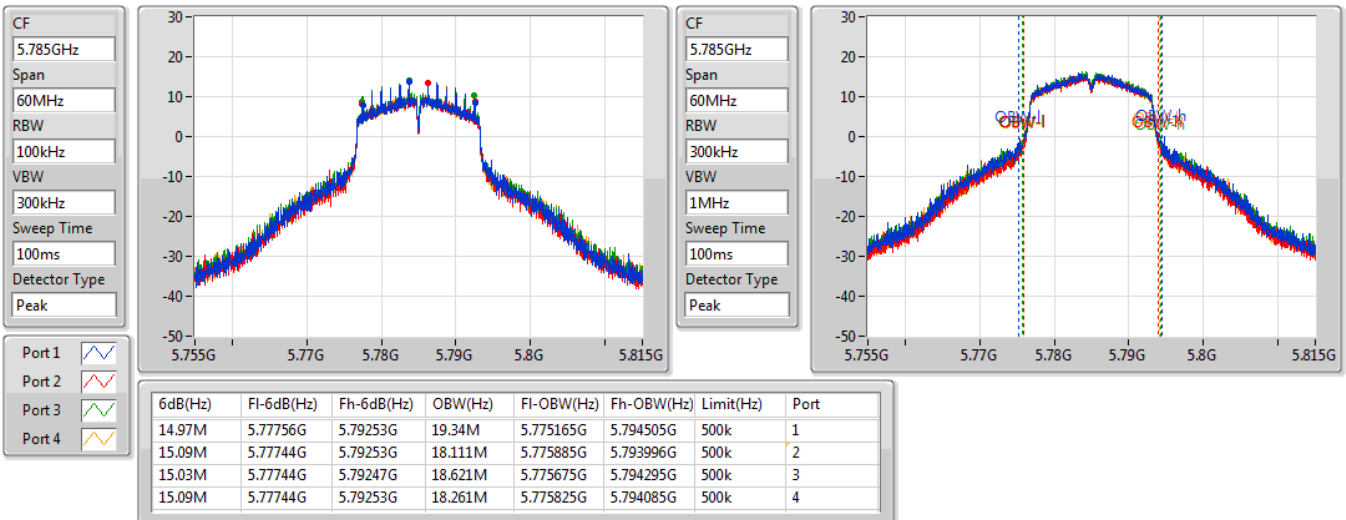


802.11a_Nss1,(6Mbps)_4TX

EBW

5785MHz

15/09/2021

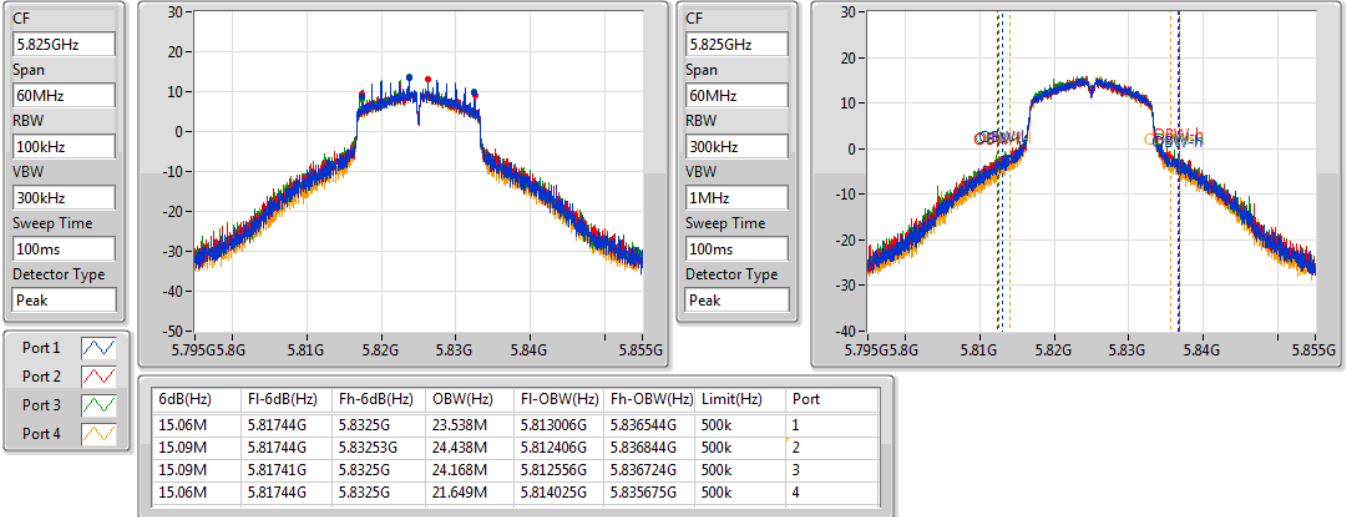


802.11a_Nss1,(6Mbps)_4TX

EBW

5825MHz

15/09/2021

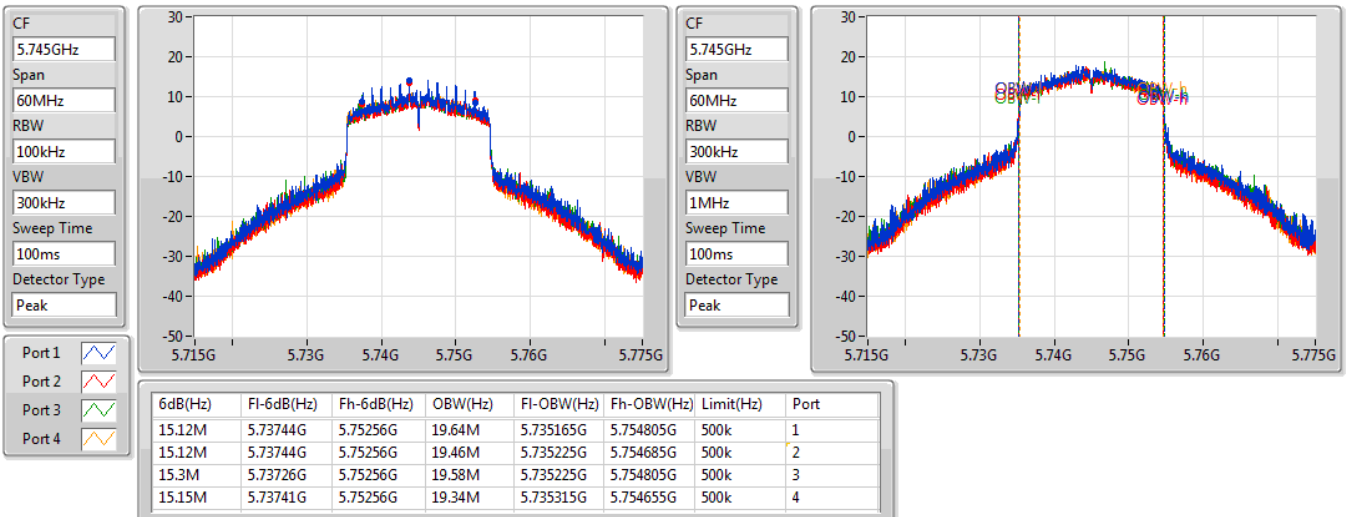


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5745MHz

15/09/2021

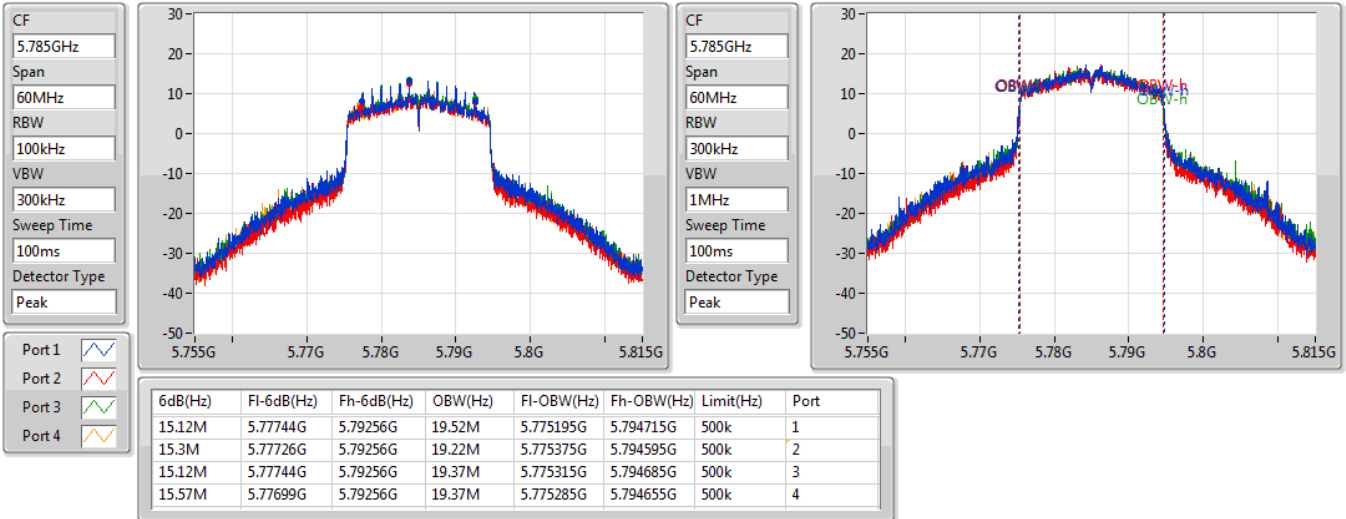


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5785MHz

15/09/2021

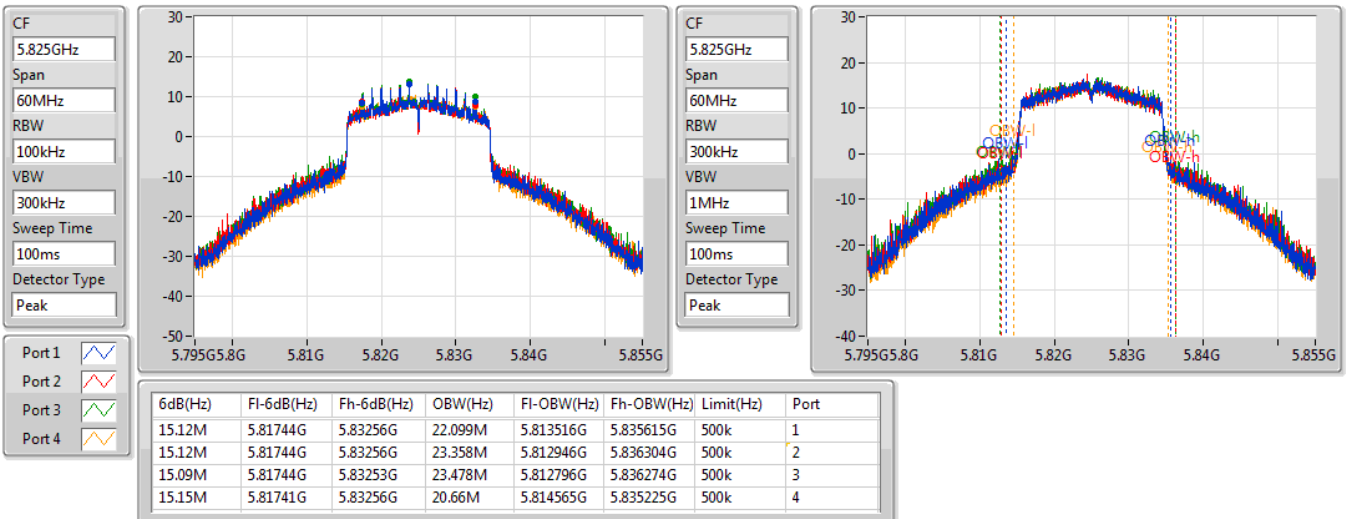


802.11ax HEW20_Nss1,(MCS0)_4TX

EBW

5825MHz

15/09/2021

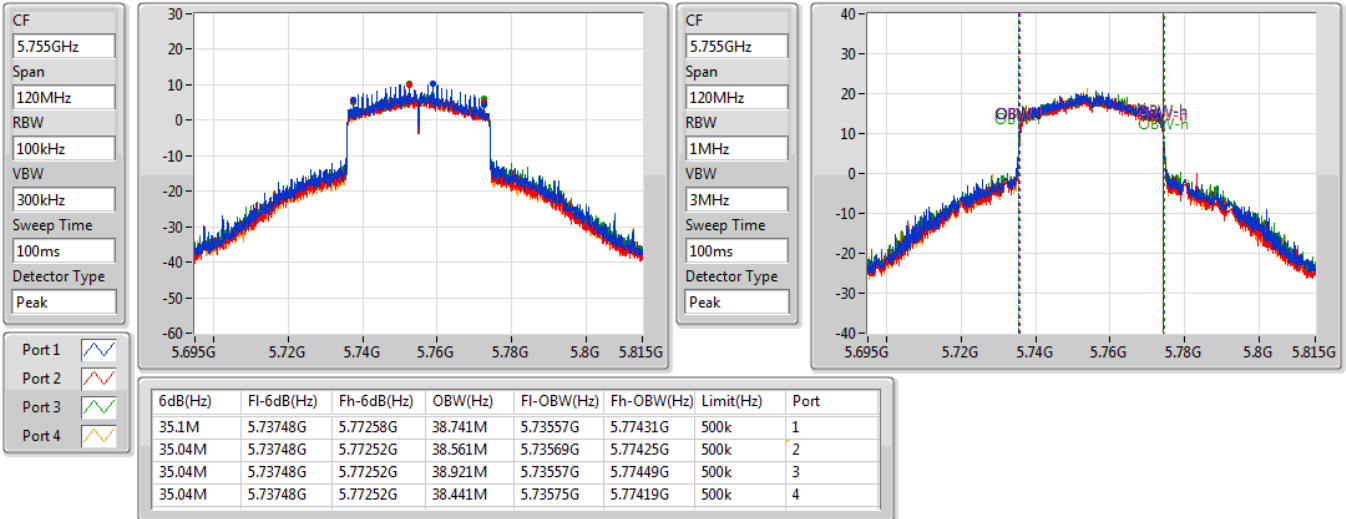


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5755MHz

15/09/2021

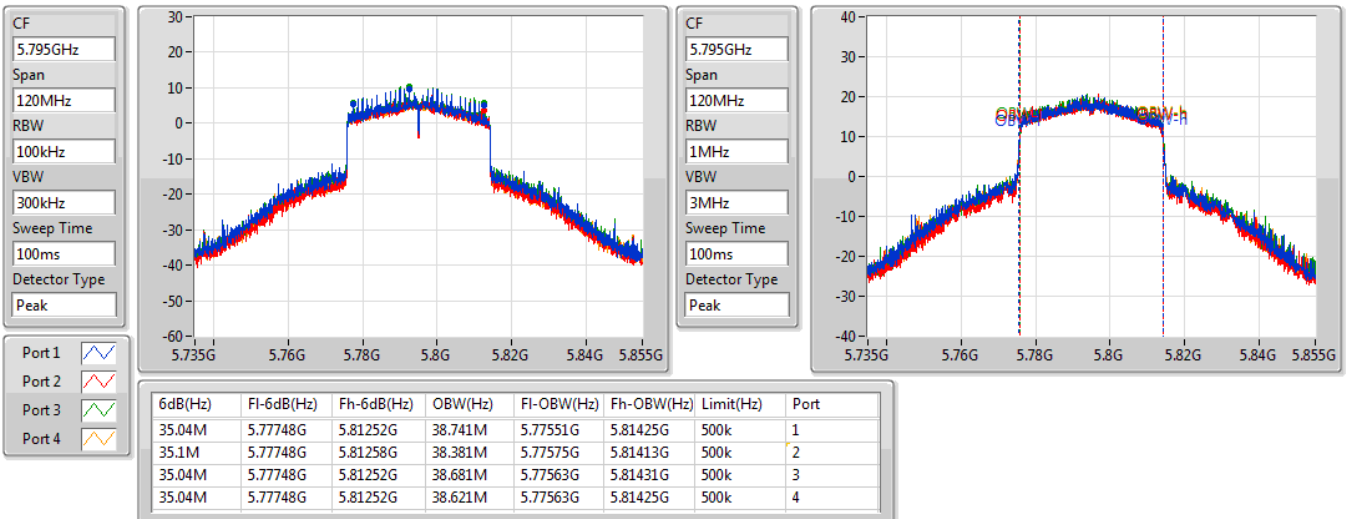


802.11ax HEW40_Nss1,(MCS0)_4TX

EBW

5795MHz

15/09/2021

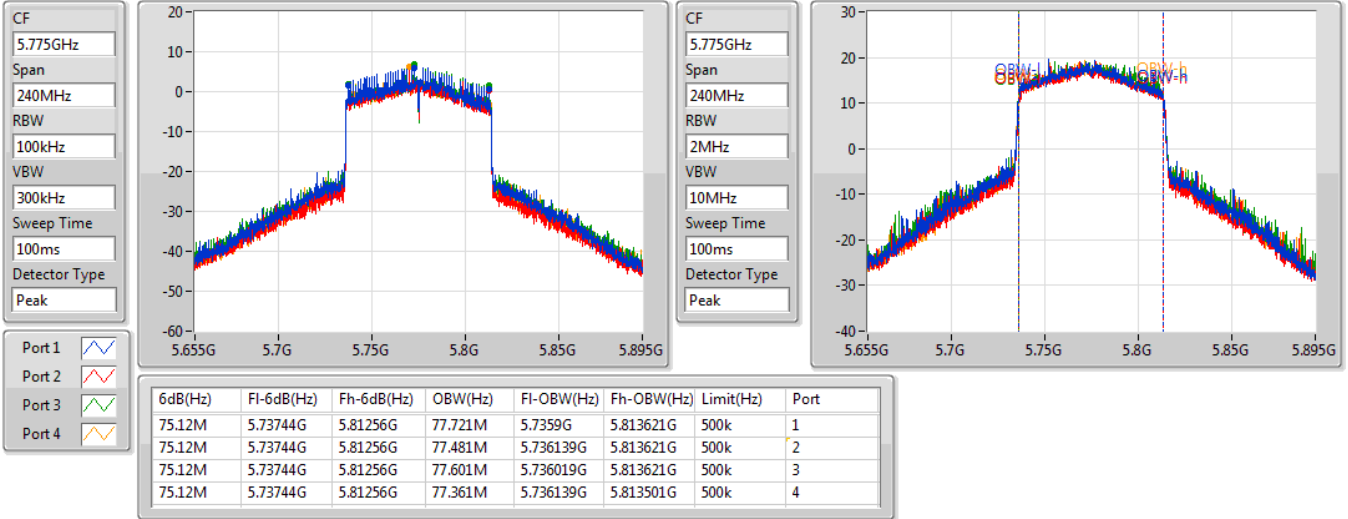


802.11ax HEW80_Nss1,(MCS0)_4TX

EBW

5775MHz

15/09/2021



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	18.72M	19.13M	19M1D1D	14.55M	18.891M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	37.56M	38.021M	38M0D1D	34.56M	37.661M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	77.52M	77.721M	77M7D1D	75.12M	77.361M

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

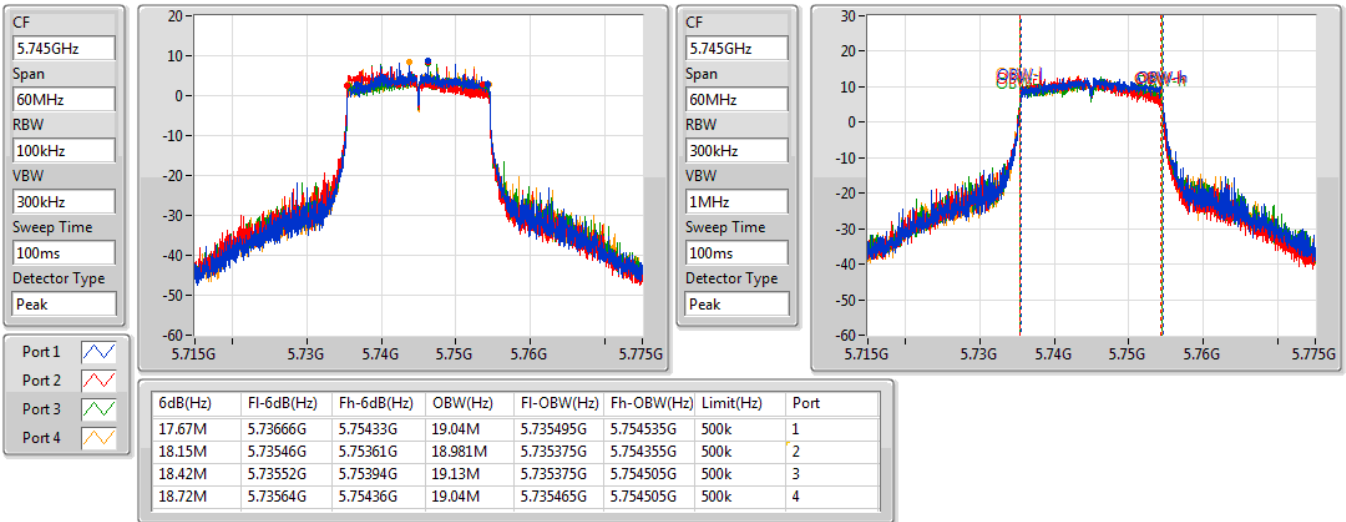
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	17.67M	19.04M	18.15M	18.981M	18.42M	19.13M	18.72M	19.04M
5785MHz	Pass	500k	15.96M	18.921M	15.03M	18.921M	15.3M	18.891M	15.63M	18.921M
5825MHz	Pass	500k	14.55M	18.951M	16.23M	18.921M	16.11M	18.951M	16.38M	18.921M
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	34.56M	37.721M	35.1M	37.661M	35.34M	37.781M	35.1M	37.661M
5795MHz	Pass	500k	37.44M	38.021M	37.2M	37.901M	37.32M	37.961M	37.56M	37.961M
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.12M	77.361M	76.44M	77.601M	77.52M	77.721M	76.08M	77.481M

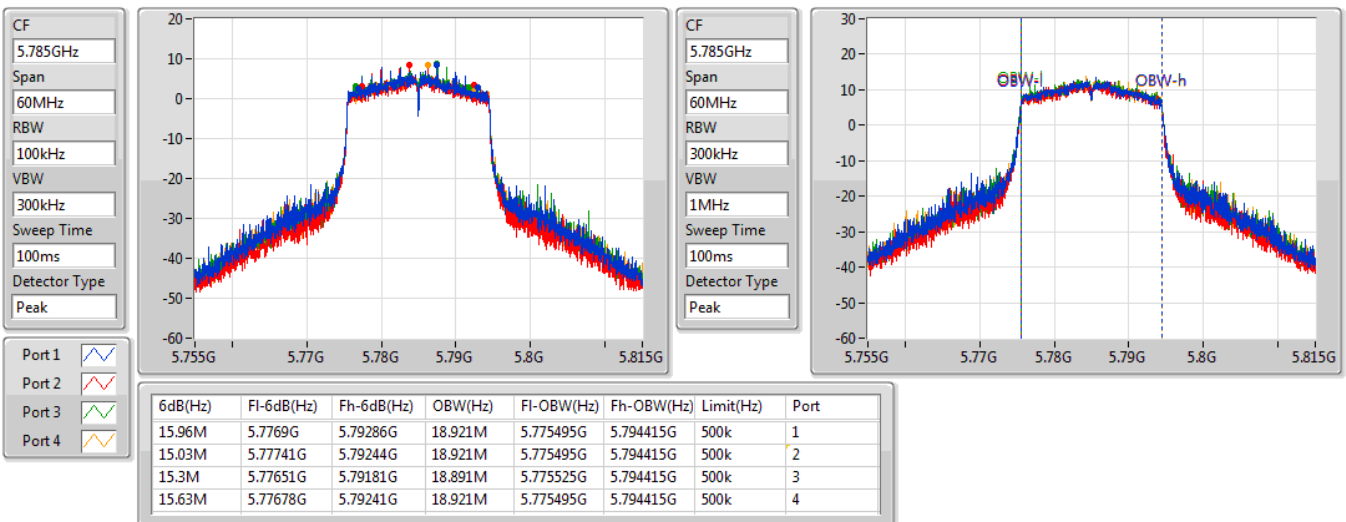
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5745MHz

15/09/2021

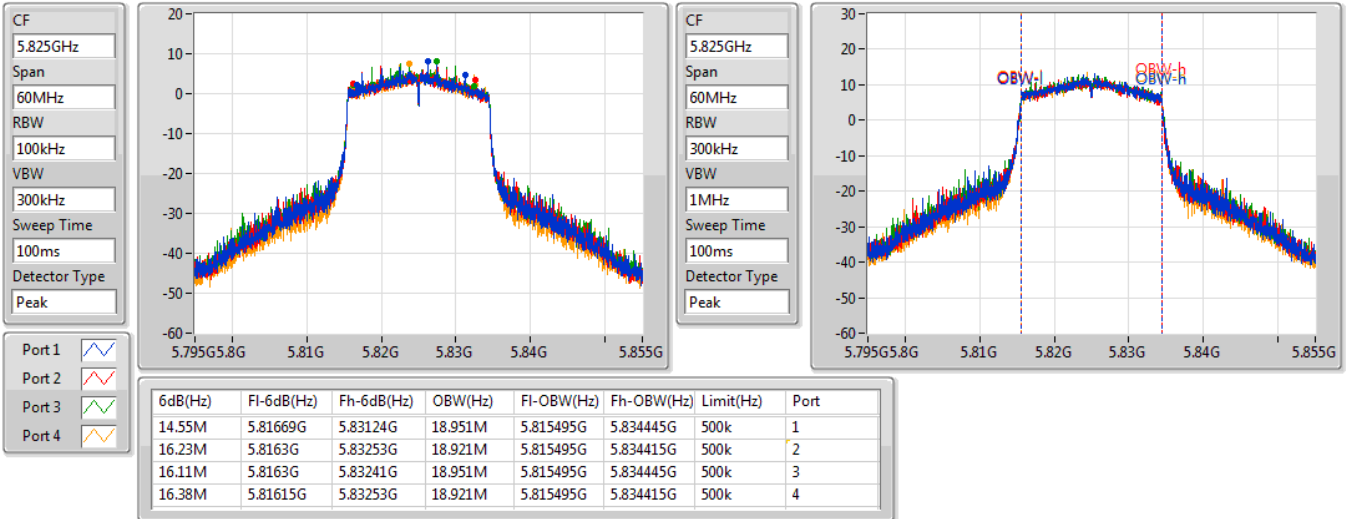

802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5785MHz

15/09/2021

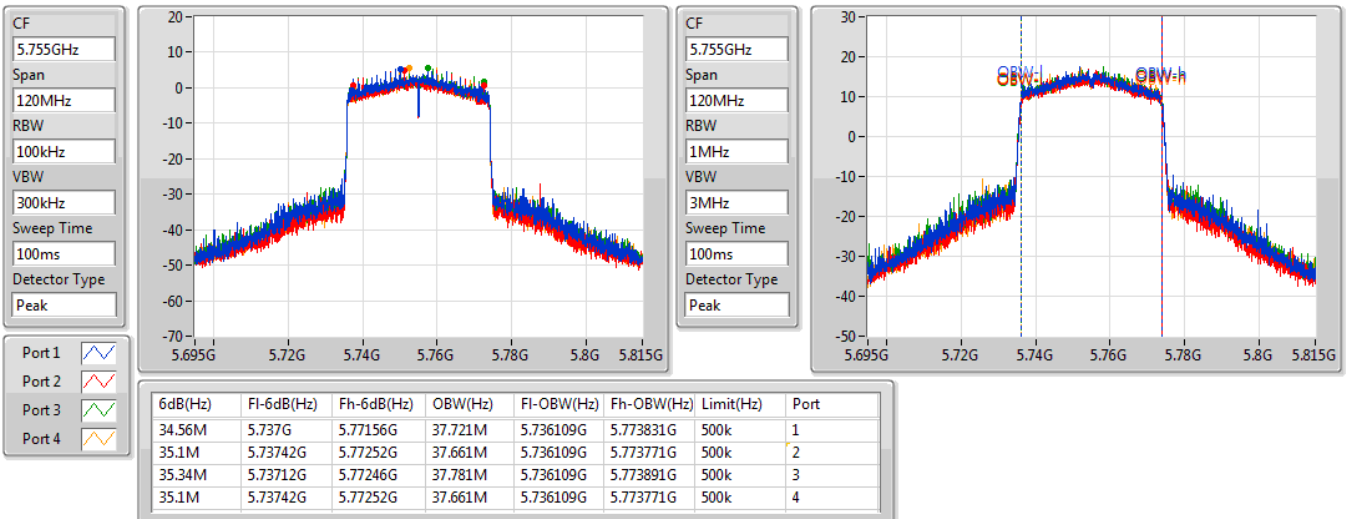


802.11ax HEW20-BF_Nss1,(MCS0)_4TX
EBW
5825MHz

15/09/2021

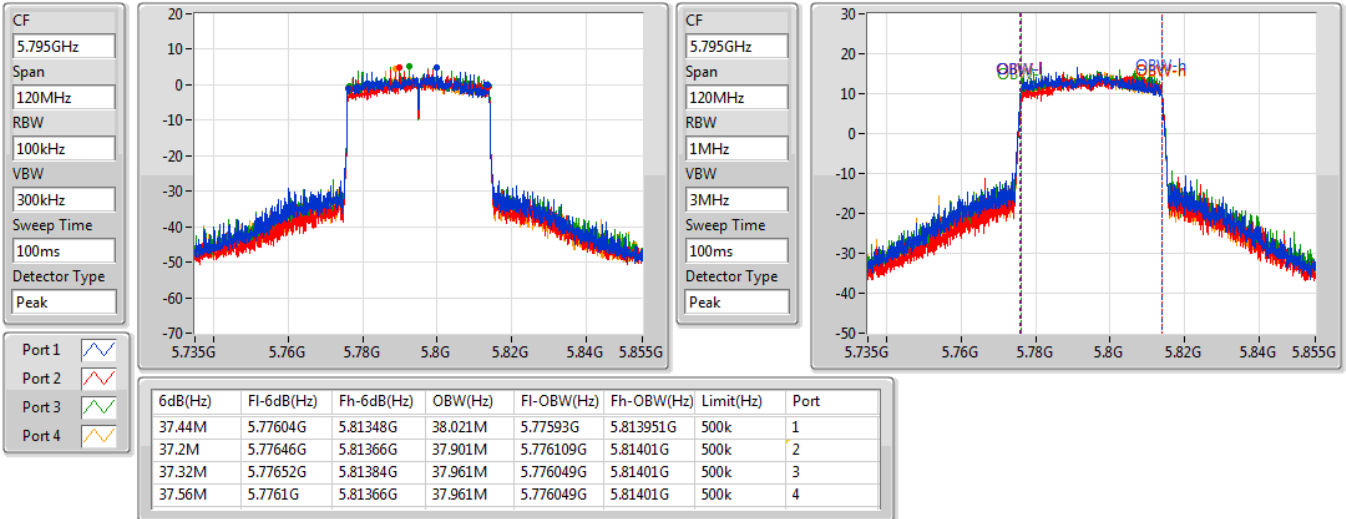

802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5755MHz

15/09/2021

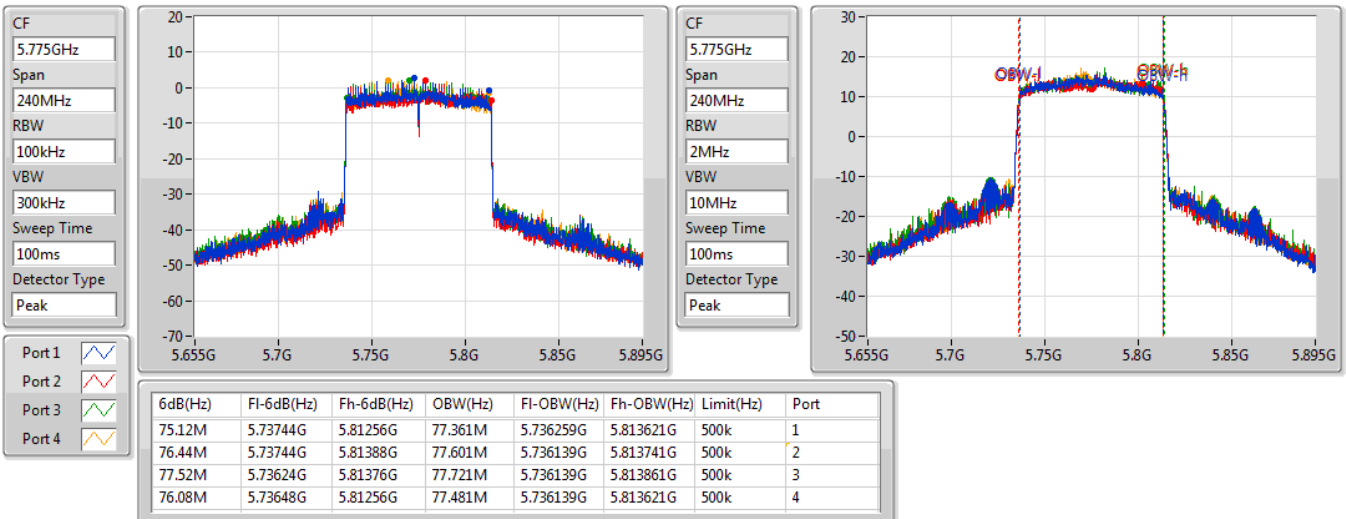


802.11ax HEW40-BF_Nss1,(MCS0)_4TX
EBW
5795MHz

15/09/2021


802.11ax HEW80-BF_Nss1,(MCS0)_4TX
EBW
5775MHz

15/09/2021





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.81	0.95719	33.80	2.39883
802.11ax HEW20_Nss1,(MCS0)_4TX	29.90	0.97724	33.89	2.44906
802.11ax HEW40_Nss1,(MCS0)_4TX	29.55	0.90157	33.54	2.25944
802.11ax HEW80_Nss1,(MCS0)_4TX	28.51	0.70958	32.50	1.77828



Average Power_Non Beamforming

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	3.99	24.04	23.60	23.79	23.73	29.81	30.00	33.80	36.00
5785MHz	Pass	3.99	23.73	23.48	23.98	23.54	29.71	30.00	33.70	36.00
5825MHz	Pass	3.99	23.70	23.52	23.84	23.56	29.68	30.00	33.67	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	3.99	24.24	23.60	23.81	23.84	29.90	30.00	33.89	36.00
5785MHz	Pass	3.99	23.50	23.10	23.73	23.36	29.45	30.00	33.44	36.00
5825MHz	Pass	3.99	23.53	23.46	23.65	23.53	29.56	30.00	33.55	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	3.99	23.77	23.29	23.57	23.48	29.55	30.00	33.54	36.00
5795MHz	Pass	3.99	23.34	22.99	23.71	23.27	29.36	30.00	33.35	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	3.99	22.29	22.22	22.84	22.58	28.51	30.00	32.50	36.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	26.29	0.42560	35.42	3.48337
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	26.24	0.42073	35.37	3.44350
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	26.22	0.41879	35.35	3.42768

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	9.13	20.62	20.21	19.92	20.28	26.29	26.87	35.42	36.00
5785MHz	Pass	9.13	20.22	19.74	20.45	20.18	26.18	26.87	35.31	36.00
5825MHz	Pass	9.13	19.98	19.68	20.39	19.90	26.02	26.87	35.15	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	9.13	20.55	19.80	20.31	20.19	26.24	26.87	35.37	36.00
5795MHz	Pass	9.13	20.12	19.57	20.34	19.95	26.02	26.87	35.15	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	9.13	20.11	19.90	20.39	20.37	26.22	26.87	35.35	36.00

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



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	16.21	25.34
802.11ax HEW20_Nss1,(MCS0)_4TX	15.75	24.88
802.11ax HEW40_Nss1,(MCS0)_4TX	13.04	22.17
802.11ax HEW80_Nss1,(MCS0)_4TX	8.49	17.62

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	9.13	10.55	10.13	10.37	10.27	16.21	26.87	25.34	36.00
5785MHz	Pass	9.13	10.05	9.81	10.62	10.16	16.08	26.87	25.21	36.00
5825MHz	Pass	9.13	9.88	9.72	10.10	9.84	15.84	26.87	24.97	36.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	9.13	10.23	9.69	9.91	9.85	15.75	26.87	24.88	36.00
5785MHz	Pass	9.13	9.60	9.13	9.48	9.49	15.32	26.87	24.45	36.00
5825MHz	Pass	9.13	9.59	9.27	9.69	9.41	15.14	26.87	24.27	36.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	9.13	7.14	7.44	7.24	7.41	13.04	26.87	22.17	36.00
5795MHz	Pass	9.13	7.00	6.65	7.80	6.59	12.56	26.87	21.69	36.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	9.13	2.65	2.31	3.18	2.99	8.49	26.87	17.62	36.00

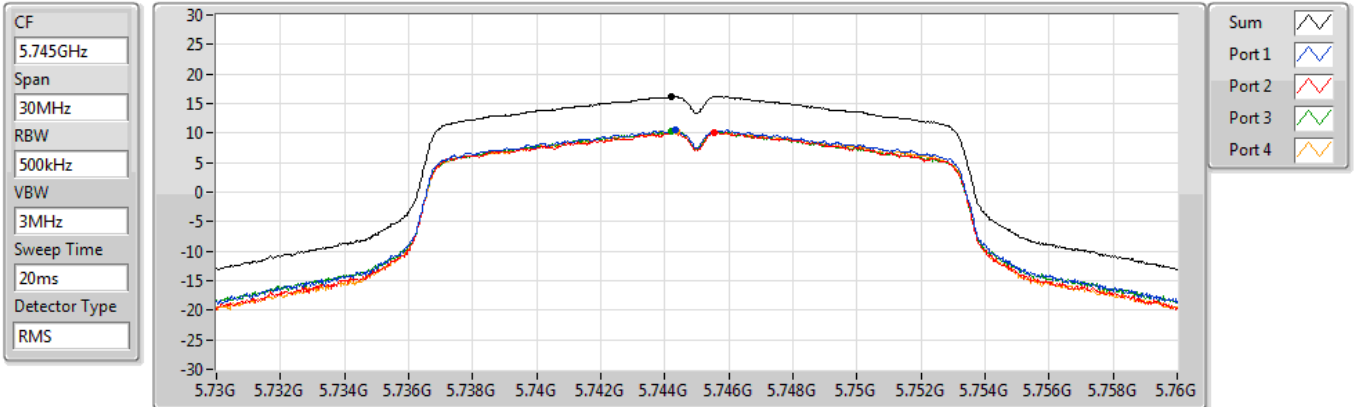
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_4TX

PSD

5745MHz

15/09/2021



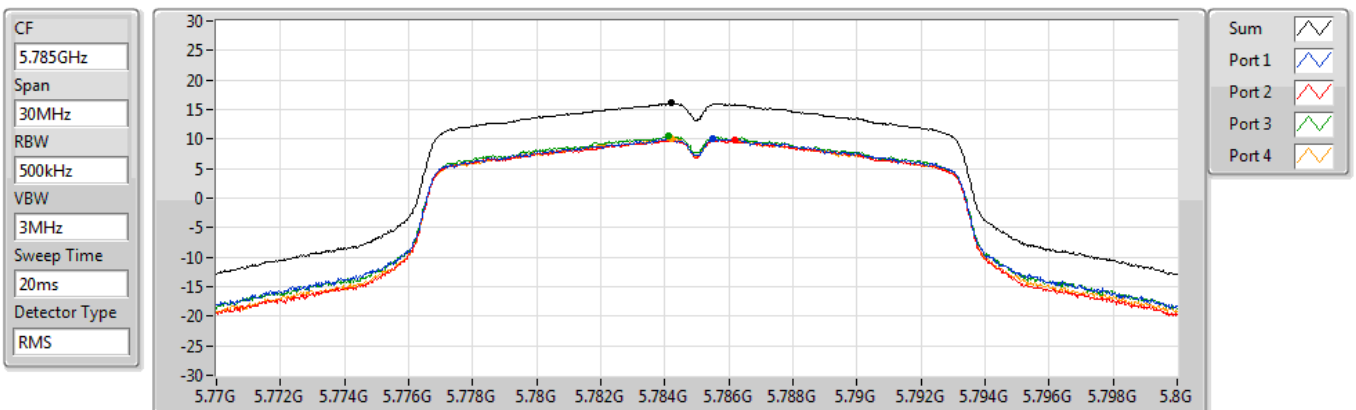
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.21	16.21	10.55	10.13	10.37	10.27

802.11a_Nss1,(6Mbps)_4TX

PSD

5785MHz

15/09/2021



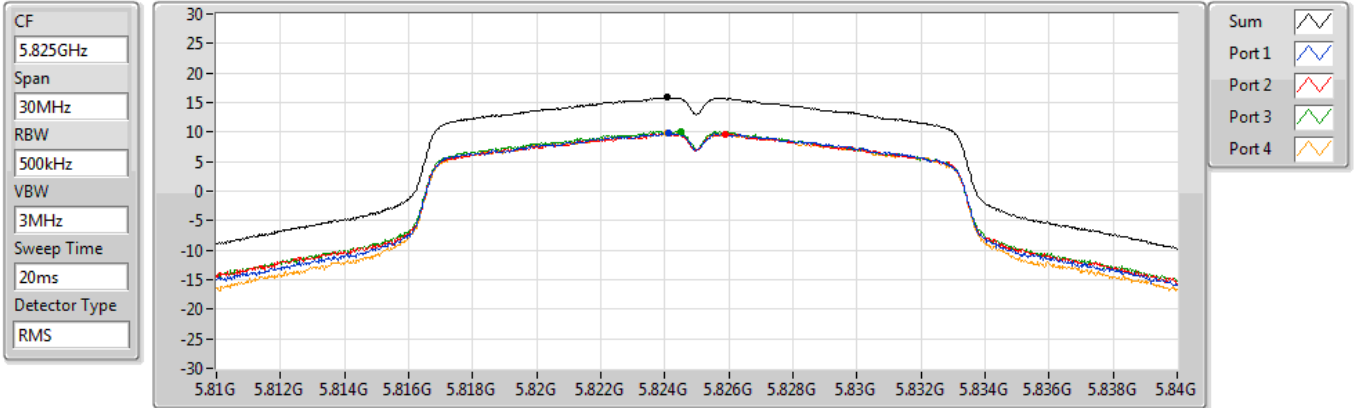
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
16.08	16.08	10.05	9.81	10.62	10.16

802.11a_Nss1,(6Mbps)_4TX

PSD

5825MHz

15/09/2021

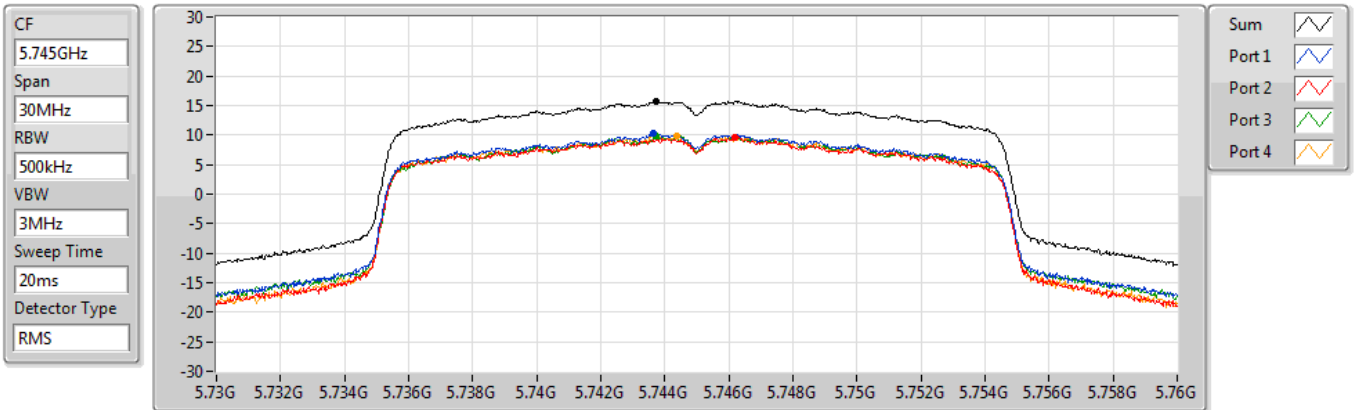


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5745MHz

15/09/2021

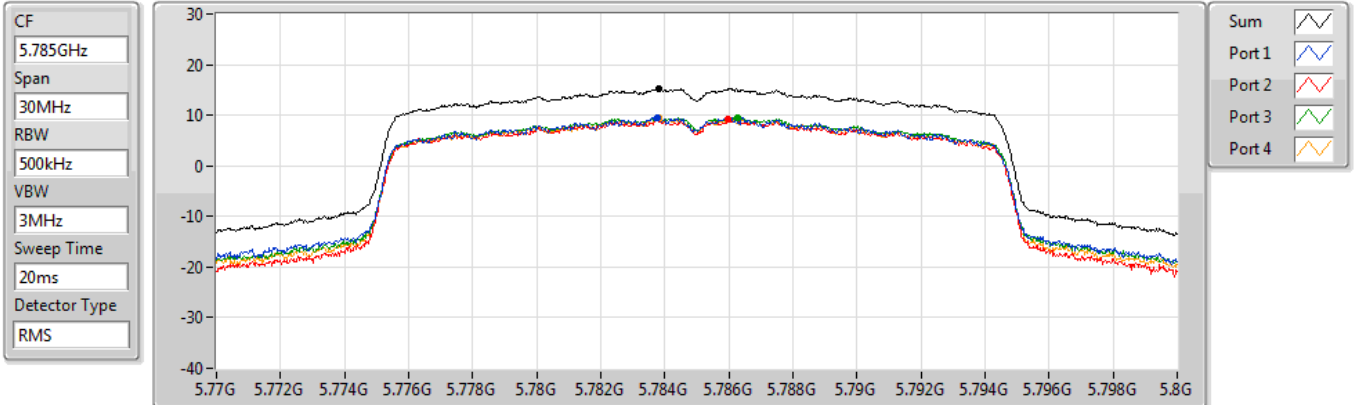


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5785MHz

15/09/2021

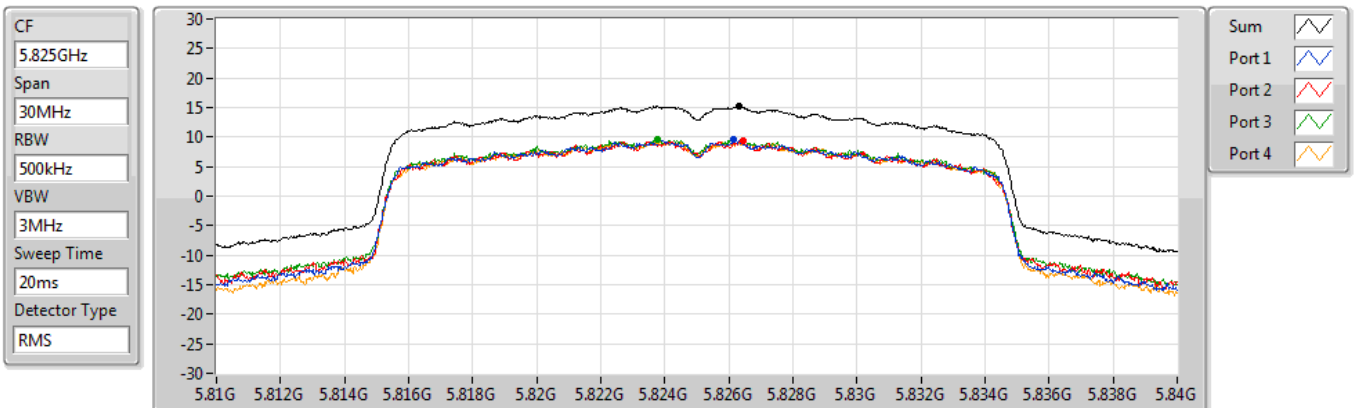


802.11ax HEW20_Nss1,(MCS0)_4TX

PSD

5825MHz

15/09/2021

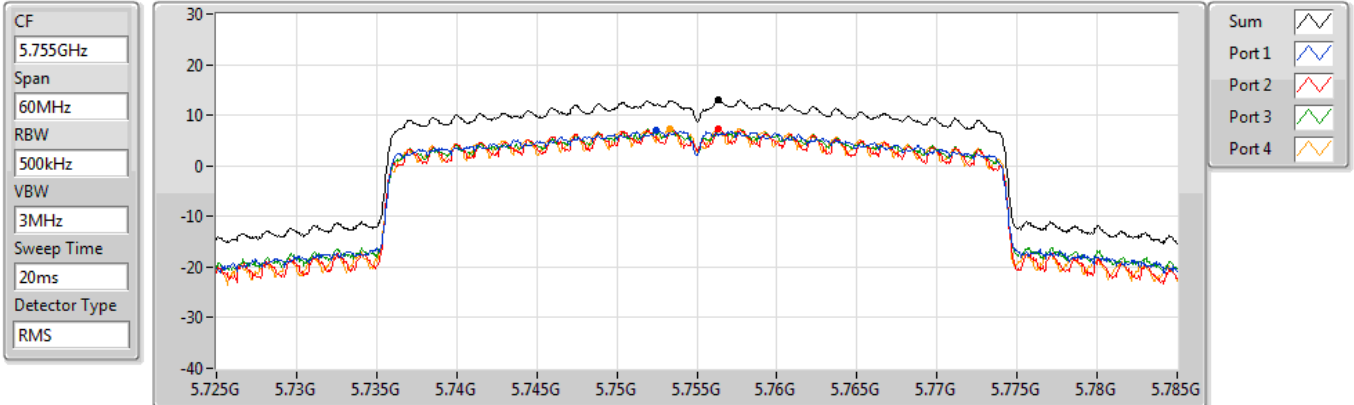


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5755MHz

15/09/2021

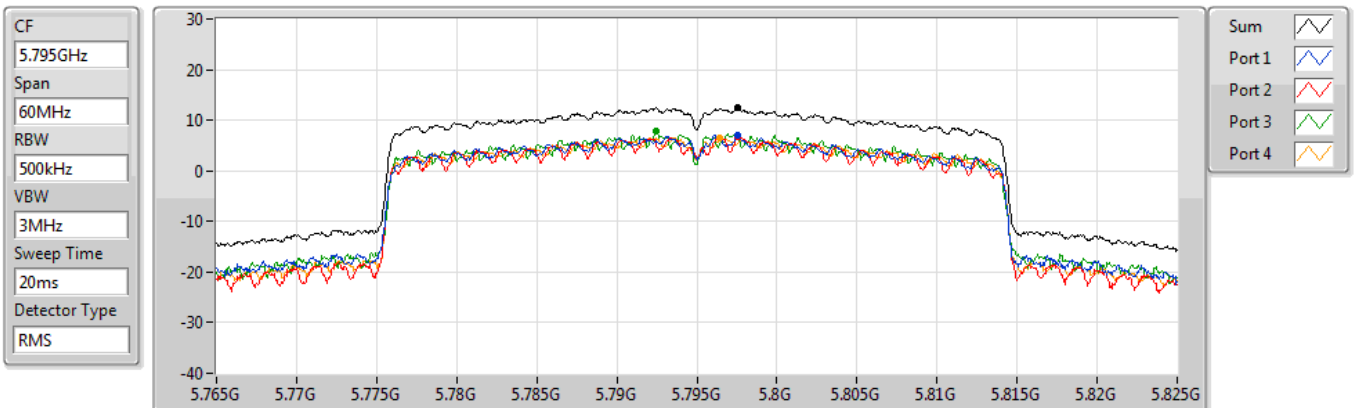


802.11ax HEW40_Nss1,(MCS0)_4TX

PSD

5795MHz

15/09/2021

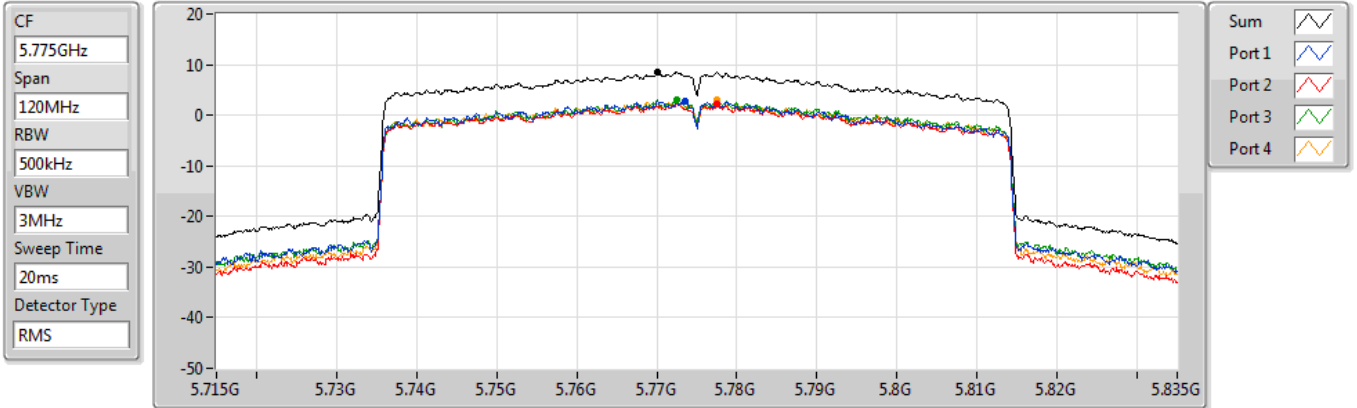


802.11ax HEW80_Nss1,(MCS0)_4TX

5775MHz

PSD

15/09/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.49	8.49	2.65	2.31	3.18	2.99



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	11.57	20.70
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	8.85	17.98
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	4.32	13.45

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



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	9.13	5.48	5.29	4.39	4.91	10.67	26.87	19.80	36.00
5785MHz	Pass	9.13	5.59	5.19	6.17	5.62	11.57	26.87	20.70	36.00
5825MHz	Pass	9.13	5.30	5.17	5.83	5.03	11.08	26.87	20.21	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	9.13	3.30	2.53	3.00	2.73	8.85	26.87	17.98	36.00
5795MHz	Pass	9.13	1.32	0.83	1.51	1.31	6.98	26.87	16.11	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	9.13	-1.33	-2.05	-1.60	-0.60	4.32	26.87	13.45	36.00

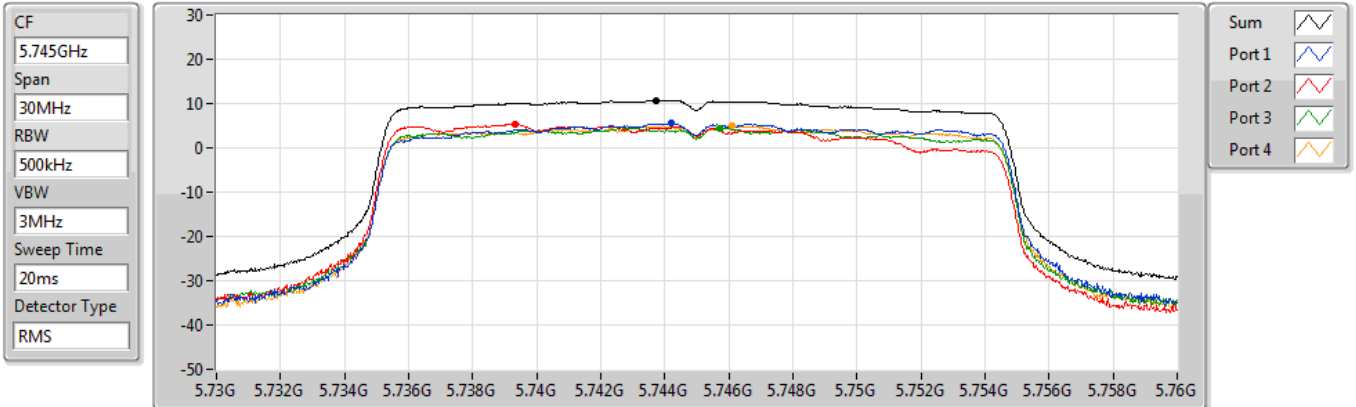
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5745MHz

15/09/2021



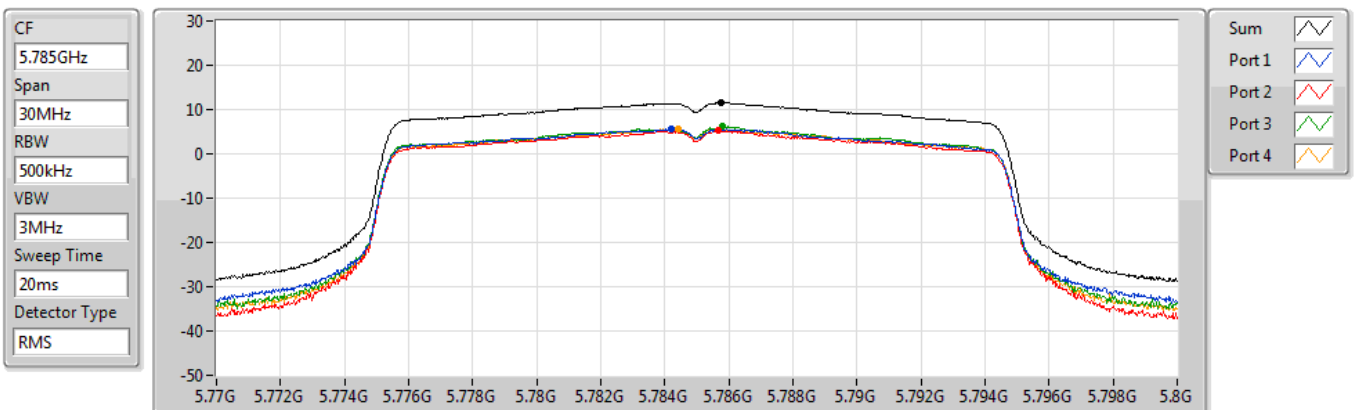
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.67	10.67	5.48	5.29	4.39	4.91

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5785MHz

15/09/2021



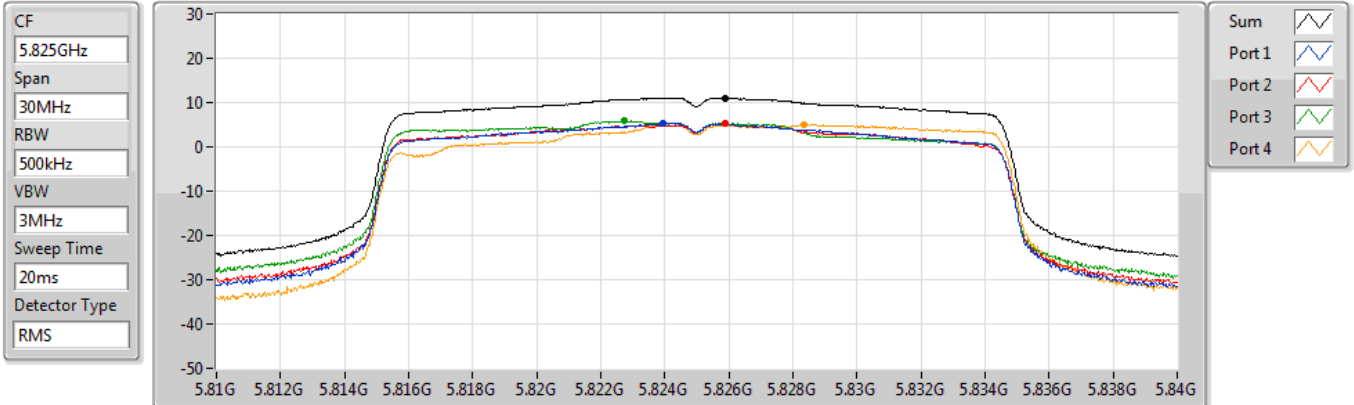
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.57	11.57	5.59	5.19	6.17	5.62

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

PSD

5825MHz

15/09/2021



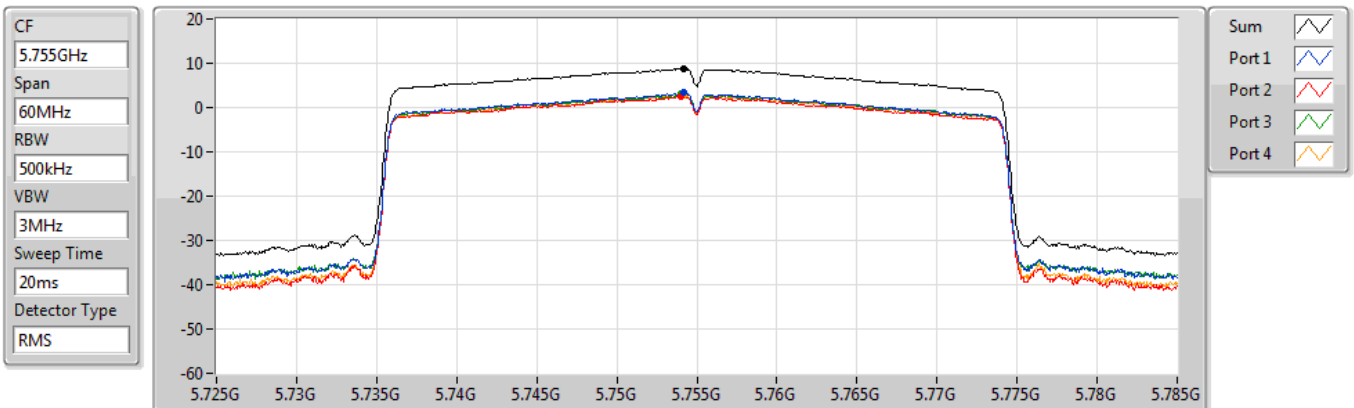
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.08	11.08	5.30	5.17	5.83	5.03

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5755MHz

15/09/2021



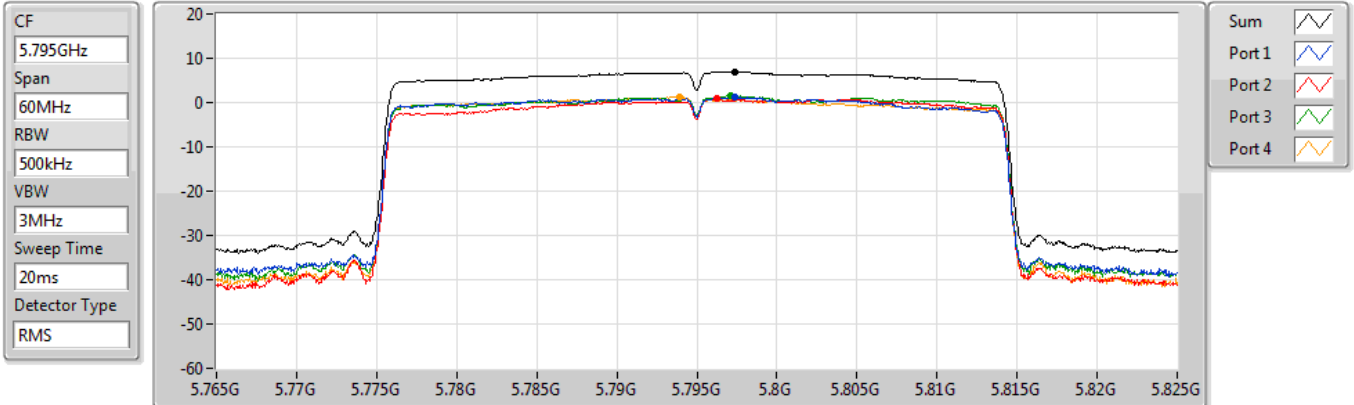
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
8.85	8.85	3.30	2.53	3.00	2.73

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

PSD

5795MHz

15/09/2021



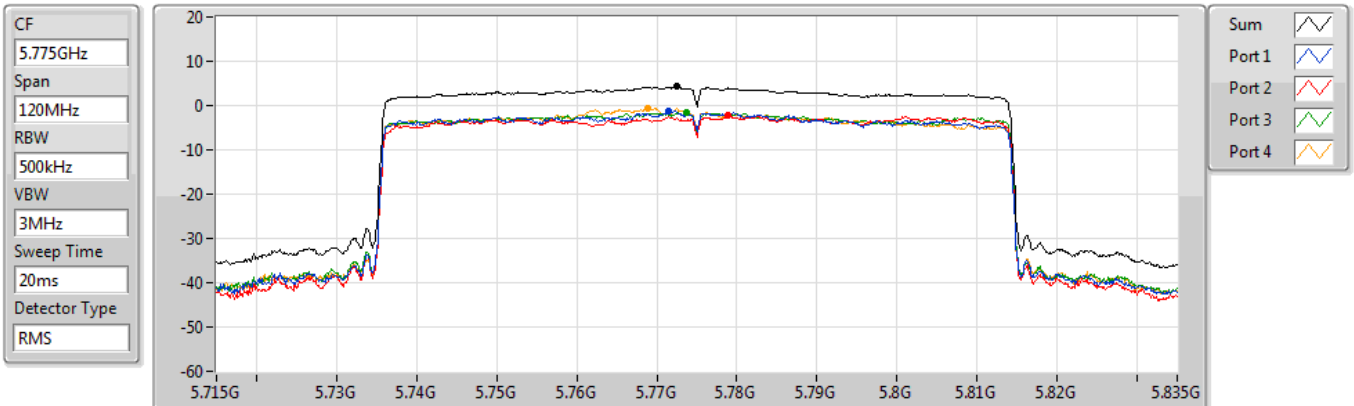
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.98	6.98	1.32	0.83	1.51	1.31

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

PSD

5775MHz

15/09/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.32	4.32	-1.33	-2.05	-1.60	-0.60



Summary

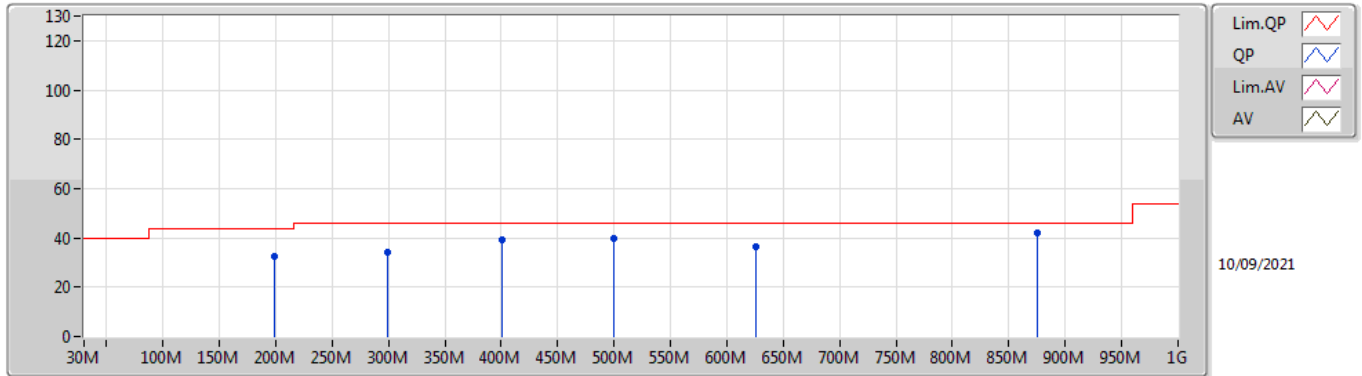
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	875.84M	42.16	46.00	-3.84	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	198.78M	32.78	43.50	-10.72	3	Vertical	0	1.00	-
5775MHz	Pass	PK	299.66M	33.97	46.00	-12.03	3	Vertical	0	1.00	-
5775MHz	Pass	PK	400.54M	39.36	46.00	-6.64	3	Vertical	0	1.00	-
5775MHz	Pass	PK	499.48M	39.71	46.00	-6.29	3	Vertical	0	1.00	-
5775MHz	Pass	PK	625.58M	36.52	46.00	-9.48	3	Vertical	0	1.00	-
5775MHz	Pass	PK	875.84M	42.16	46.00	-3.84	3	Vertical	0	1.00	-
5775MHz	Pass	PK	198.78M	29.16	43.50	-14.34	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	299.66M	30.32	46.00	-15.68	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	375.32M	36.54	46.00	-9.46	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	625.58M	32.83	46.00	-13.17	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	802.12M	34.39	46.00	-11.61	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	875.84M	40.40	46.00	-5.60	3	Horizontal	360	1.00	-

802.11ax HEW80_Nss1,(MCS0)_4TX

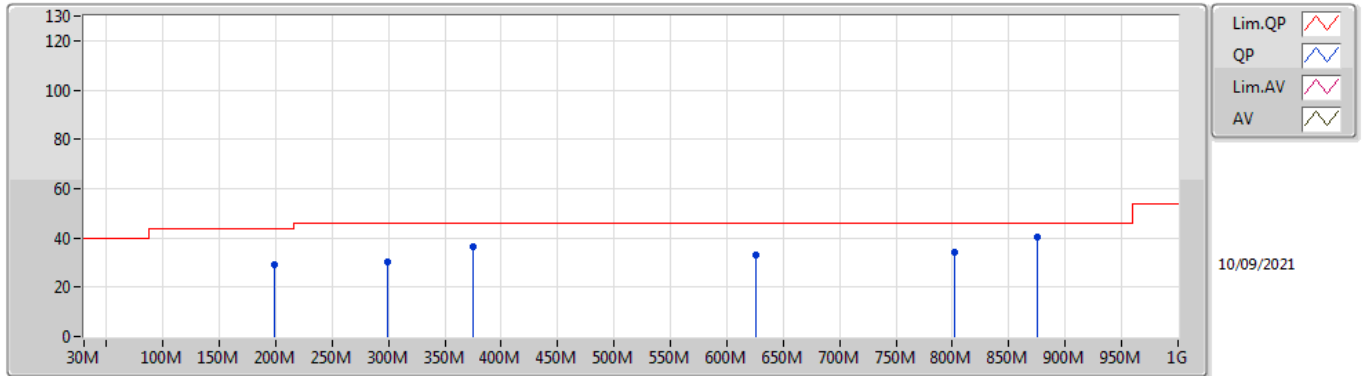
5775MHz_Test fixture



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	198.78M	32.78	43.50	-10.72	-10.83	3	Vertical	0	1.00	-	43.61	14.55	1.95	27.33
PK	299.66M	33.97	46.00	-12.03	-6.37	3	Vertical	0	1.00	-	40.34	18.33	2.36	27.06
PK	400.54M	39.36	46.00	-6.64	-3.99	3	Vertical	0	1.00	-	43.35	21.05	2.74	27.78
PK	499.48M	39.71	46.00	-6.29	-2.52	3	Vertical	0	1.00	-	42.23	22.75	3.08	28.35
PK	625.58M	36.52	46.00	-9.48	-0.60	3	Vertical	0	1.00	-	37.12	24.30	3.41	28.31
PK	875.84M	42.16	46.00	-3.84	2.08	3	Vertical	0	1.00	-	40.08	25.64	4.05	27.61

802.11ax HEW80_Nss1,(MCS0)_4TX

5775MHz_Test fixture



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	198.78M	29.16	43.50	-14.34	-10.83	3	Horizontal	360	1.00	-	39.99	14.55	1.95	27.33
PK	299.66M	30.32	46.00	-15.68	-6.37	3	Horizontal	360	1.00	-	36.69	18.33	2.36	27.06
PK	375.32M	36.54	46.00	-9.46	-4.84	3	Horizontal	360	1.00	-	41.38	20.07	2.65	27.56
PK	625.58M	32.83	46.00	-13.17	-0.60	3	Horizontal	360	1.00	-	33.43	24.30	3.41	28.31
PK	802.12M	34.39	46.00	-11.61	1.06	3	Horizontal	360	1.00	-	33.33	25.05	3.88	27.87
PK	875.84M	40.40	46.00	-5.60	2.08	3	Horizontal	360	1.00	-	38.32	25.64	4.05	27.61



Summary

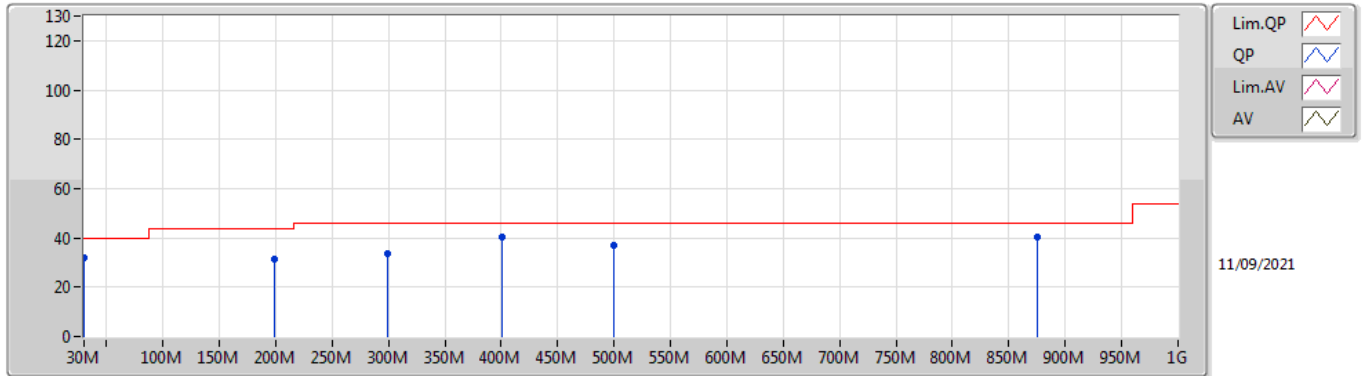
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	Pass	PK	716.76M	41.64	46.00	-4.36	3	Horizontal	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	PK	30M	32.10	40.00	-7.90	3	Vertical	0	1.00	-
5775MHz	Pass	PK	198.78M	31.34	43.50	-12.16	3	Vertical	0	1.00	-
5775MHz	Pass	PK	299.66M	33.89	46.00	-12.11	3	Vertical	0	1.00	-
5775MHz	Pass	PK	400.54M	40.07	46.00	-5.93	3	Vertical	0	1.00	-
5775MHz	Pass	PK	499.48M	36.89	46.00	-9.11	3	Vertical	0	1.00	-
5775MHz	Pass	PK	875.84M	40.42	46.00	-5.58	3	Vertical	0	1.00	-
5775MHz	Pass	PK	30M	30.63	40.00	-9.37	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	115.36M	27.43	43.50	-16.07	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	198.78M	33.31	43.50	-10.19	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	375.32M	36.83	46.00	-9.17	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	716.76M	41.64	46.00	-4.36	3	Horizontal	360	1.00	-
5775MHz	Pass	PK	875.84M	37.90	46.00	-8.10	3	Horizontal	360	1.00	-

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

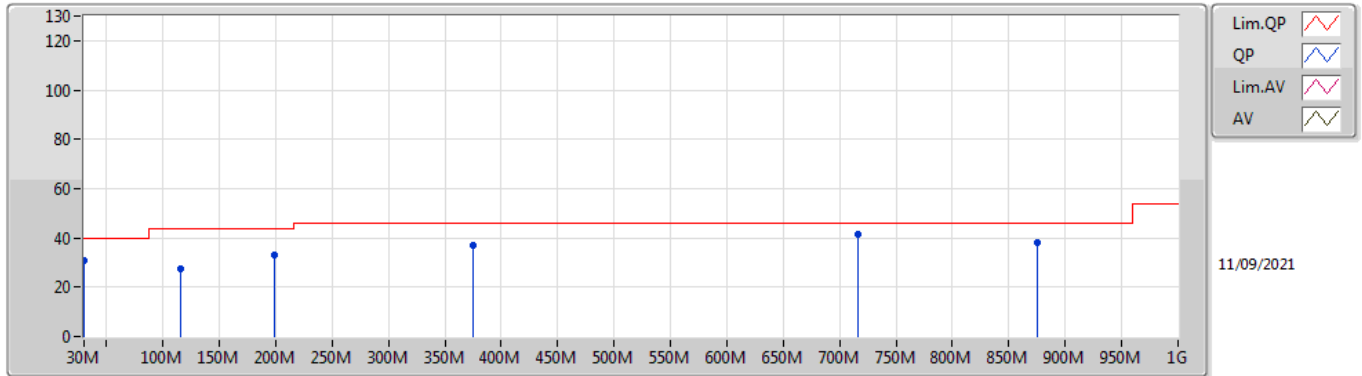
5775MHz_Test fixture



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	30M	32.10	40.00	-7.90	-2.87	3	Vertical	0	1.00	-	34.97	23.26	0.86	26.99
PK	198.78M	31.34	43.50	-12.16	-10.83	3	Vertical	0	1.00	-	42.17	14.55	1.95	27.33
PK	299.66M	33.89	46.00	-12.11	-6.37	3	Vertical	0	1.00	-	40.26	18.33	2.36	27.06
PK	400.54M	40.07	46.00	-5.93	-3.99	3	Vertical	0	1.00	-	44.06	21.05	2.74	27.78
PK	499.48M	36.89	46.00	-9.11	-2.52	3	Vertical	0	1.00	-	39.41	22.75	3.08	28.35
PK	875.84M	40.42	46.00	-5.58	2.08	3	Vertical	0	1.00	-	38.34	25.64	4.05	27.61

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_Test fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	30.63	40.00	-9.37	-2.87	3	Horizontal	360	1.00	-	33.50	23.26	0.86	26.99
PK	115.36M	27.43	43.50	-16.07	-8.92	3	Horizontal	360	1.00	-	36.35	17.36	1.51	27.79
PK	198.78M	33.31	43.50	-10.19	-10.83	3	Horizontal	360	1.00	-	44.14	14.55	1.95	27.33
PK	375.32M	36.83	46.00	-9.17	-4.84	3	Horizontal	360	1.00	-	41.67	20.07	2.65	27.56
PK	716.76M	41.64	46.00	-4.36	-0.18	3	Horizontal	360	1.00	-	41.82	24.37	3.63	28.18
PK	875.84M	37.90	46.00	-8.10	2.08	3	Horizontal	360	1.00	-	35.82	25.64	4.05	27.61



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	Pass	PK	5.6382G	60.20	68.20	-8.00	3	Vertical	270	2.99	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	11.4916G	49.71	54.00	-4.29	3	Horizontal	322	1.13	-
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	PK	5.6446G	66.19	68.20	-2.01	3	Vertical	309	1.38	-
802.11ax HEW80_Nss1,(MCS0)_4TX	Pass	PK	5.643G	65.06	68.20	-3.14	3	Vertical	283	2.24	-

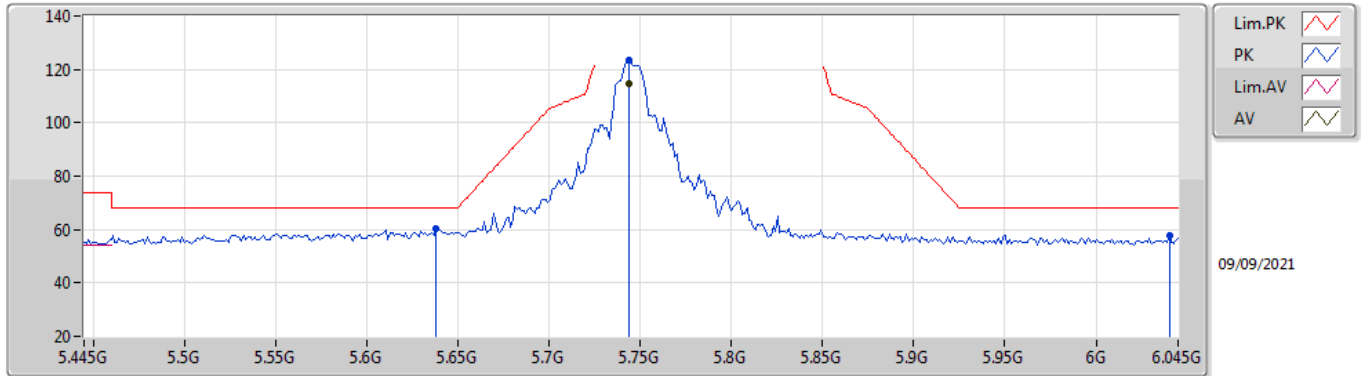
Result

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	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7438G	114.42	Inf	-Inf	3	Vertical	270	2.99	-
5745MHz	Pass	PK	5.6382G	60.20	68.20	-8.00	3	Vertical	270	2.99	-
5745MHz	Pass	PK	5.7438G	123.68	Inf	-Inf	3	Vertical	270	2.99	-
5745MHz	Pass	PK	6.0402G	57.89	68.20	-10.31	3	Vertical	270	2.99	-
5745MHz	Pass	AV	5.7462G	104.35	Inf	-Inf	3	Horizontal	337	1.48	-
5745MHz	Pass	PK	5.5026G	57.11	68.20	-11.09	3	Horizontal	337	1.48	-
5745MHz	Pass	PK	5.7462G	113.38	Inf	-Inf	3	Horizontal	337	1.48	-
5745MHz	Pass	PK	5.937G	57.68	68.20	-10.52	3	Horizontal	337	1.48	-
5745MHz	Pass	AV	11.49222G	42.50	54.00	-11.50	3	Vertical	81	1.40	-
5745MHz	Pass	PK	11.49086G	55.43	74.00	-18.57	3	Vertical	81	1.40	-
5745MHz	Pass	AV	11.49176G	42.57	54.00	-11.43	3	Horizontal	168	2.22	-
5745MHz	Pass	PK	11.49176G	56.44	74.00	-17.56	3	Horizontal	168	2.22	-
5785MHz	Pass	AV	5.785G	114.26	Inf	-Inf	3	Vertical	269	1.21	-
5785MHz	Pass	PK	5.6134G	58.89	68.20	-9.31	3	Vertical	269	1.21	-
5785MHz	Pass	PK	5.7838G	123.69	Inf	-Inf	3	Vertical	269	1.21	-
5785MHz	Pass	PK	5.9362G	58.62	68.20	-9.58	3	Vertical	269	1.21	-
5785MHz	Pass	AV	5.7862G	104.29	Inf	-Inf	3	Horizontal	339	1.45	-
5785MHz	Pass	PK	5.6182G	57.89	68.20	-10.31	3	Horizontal	339	1.45	-
5785MHz	Pass	PK	5.7862G	113.12	Inf	-Inf	3	Horizontal	339	1.45	-
5785MHz	Pass	PK	6.049G	57.73	68.20	-10.47	3	Horizontal	339	1.45	-
5785MHz	Pass	AV	11.65207G	44.71	54.00	-9.29	3	Vertical	58	1.73	-
5785MHz	Pass	PK	11.65088G	57.91	74.00	-16.09	3	Vertical	58	1.73	-
5785MHz	Pass	AV	11.6522G	44.88	54.00	-9.12	3	Horizontal	357	1.76	-
5785MHz	Pass	PK	11.65181G	59.67	74.00	-14.33	3	Horizontal	357	1.76	-
5825MHz	Pass	AV	5.8238G	114.47	Inf	-Inf	3	Vertical	269	2.90	-
5825MHz	Pass	PK	5.6198G	58.95	68.20	-9.25	3	Vertical	269	2.90	-
5825MHz	Pass	PK	5.8238G	124.32	Inf	-Inf	3	Vertical	269	2.90	-
5825MHz	Pass	PK	5.9426G	57.11	68.20	-11.09	3	Vertical	269	2.90	-
5825MHz	Pass	AV	5.8262G	104.36	Inf	-Inf	3	Horizontal	338	1.31	-
5825MHz	Pass	PK	5.543G	56.69	68.20	-11.51	3	Horizontal	338	1.31	-
5825MHz	Pass	PK	5.8262G	112.96	Inf	-Inf	3	Horizontal	338	1.31	-
5825MHz	Pass	PK	5.9426G	57.40	68.20	-10.80	3	Horizontal	338	1.31	-
5825MHz	Pass	AV	11.65215G	43.69	54.00	-10.31	3	Vertical	360	1.29	-
5825MHz	Pass	PK	11.65224G	57.06	74.00	-16.94	3	Vertical	360	1.29	-
5825MHz	Pass	AV	11.65242G	44.80	54.00	-9.20	3	Horizontal	10	1.12	-
5825MHz	Pass	PK	11.6504G	57.71	74.00	-16.29	3	Horizontal	10	1.12	-
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.745G	114.85	Inf	-Inf	3	Vertical	311	1.45	-
5745MHz	Pass	PK	5.6322G	60.79	68.20	-7.41	3	Vertical	311	1.45	-
5745MHz	Pass	PK	5.745G	122.88	Inf	-Inf	3	Vertical	311	1.45	-
5745MHz	Pass	PK	6.0162G	58.90	68.20	-9.30	3	Vertical	311	1.45	-
5745MHz	Pass	AV	5.745G	105.98	Inf	-Inf	3	Horizontal	182	1.00	-
5745MHz	Pass	PK	5.5938G	57.95	68.20	-10.25	3	Horizontal	182	1.00	-
5745MHz	Pass	PK	5.7498G	115.33	Inf	-Inf	3	Horizontal	182	1.00	-
5745MHz	Pass	PK	5.9874G	58.15	68.20	-10.05	3	Horizontal	182	1.00	-
5745MHz	Pass	AV	11.49G	49.60	54.00	-4.40	3	Vertical	222	1.51	-
5745MHz	Pass	PK	11.49068G	60.71	74.00	-13.29	3	Vertical	222	1.51	-
5745MHz	Pass	AV	11.4916G	49.71	54.00	-4.29	3	Horizontal	322	1.13	-
5745MHz	Pass	PK	11.49152G	61.75	74.00	-12.25	3	Horizontal	322	1.13	-
5785MHz	Pass	AV	5.785G	113.90	Inf	-Inf	3	Vertical	311	1.04	-
5785MHz	Pass	PK	5.6158G	59.87	68.20	-8.33	3	Vertical	311	1.04	-
5785MHz	Pass	PK	5.785G	123.17	Inf	-Inf	3	Vertical	311	1.04	-
5785MHz	Pass	PK	5.9698G	58.68	68.20	-9.52	3	Vertical	311	1.04	-
5785MHz	Pass	AV	5.7838G	103.91	Inf	-Inf	3	Horizontal	160	1.23	-
5785MHz	Pass	PK	5.545G	57.40	68.20	-10.80	3	Horizontal	160	1.23	-
5785MHz	Pass	PK	5.785G	112.54	Inf	-Inf	3	Horizontal	160	1.23	-
5785MHz	Pass	PK	5.9674G	58.47	68.20	-9.73	3	Horizontal	160	1.23	-
5785MHz	Pass	PK	11.56384G	58.91	74.00	-15.09	3	Vertical	239	1.53	-
5785MHz	Pass	AV	11.56872G	48.48	54.00	-5.52	3	Vertical	239	1.53	-
5785MHz	Pass	AV	11.57168G	48.51	54.00	-5.49	3	Horizontal	328	1.01	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5785MHz	Pass	PK	11.57156G	58.44	74.00	-15.56	3	Horizontal	328	1.01	-
5825MHz	Pass	AV	5.8262G	114.34	Inf	-Inf	3	Vertical	279	2.33	-
5825MHz	Pass	PK	5.6486G	59.35	68.20	-8.85	3	Vertical	279	2.33	-
5825MHz	Pass	PK	5.8214G	122.86	Inf	-Inf	3	Vertical	279	2.33	-
5825MHz	Pass	PK	5.9726G	58.10	68.20	-10.10	3	Vertical	279	2.33	-
5825MHz	Pass	AV	5.825G	104.67	Inf	-Inf	3	Horizontal	183	1.40	-
5825MHz	Pass	PK	5.567G	57.46	68.20	-10.74	3	Horizontal	183	1.40	-
5825MHz	Pass	PK	5.8298G	113.65	Inf	-Inf	3	Horizontal	183	1.40	-
5825MHz	Pass	PK	6.0674G	58.65	68.20	-9.55	3	Horizontal	183	1.40	-
5825MHz	Pass	AV	11.65044G	47.16	54.00	-6.84	3	Vertical	249	1.50	-
5825MHz	Pass	PK	11.65132G	57.09	74.00	-16.91	3	Vertical	249	1.50	-
5825MHz	Pass	AV	11.65164G	48.89	54.00	-5.11	3	Horizontal	323	1.08	-
5825MHz	Pass	PK	11.65184G	59.57	74.00	-14.43	3	Horizontal	323	1.08	-
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	5.7538G	110.95	Inf	-Inf	3	Vertical	309	1.38	-
5755MHz	Pass	PK	5.6446G	66.19	68.20	-2.01	3	Vertical	309	1.38	-
5755MHz	Pass	PK	5.755G	122.23	Inf	-Inf	3	Vertical	309	1.38	-
5755MHz	Pass	PK	5.9518G	58.13	68.20	-10.07	3	Vertical	309	1.38	-
5755MHz	Pass	AV	5.7562G	100.27	Inf	-Inf	3	Horizontal	156	1.74	-
5755MHz	Pass	PK	5.6446G	60.54	68.20	-7.66	3	Horizontal	156	1.74	-
5755MHz	Pass	PK	5.7562G	108.91	Inf	-Inf	3	Horizontal	156	1.74	-
5755MHz	Pass	PK	6.0322G	58.25	68.20	-9.95	3	Horizontal	156	1.74	-
5755MHz	Pass	AV	11.51096G	45.42	54.00	-8.58	3	Vertical	75	1.69	-
5755MHz	Pass	PK	11.512G	56.30	74.00	-17.70	3	Vertical	75	1.69	-
5755MHz	Pass	AV	11.51032G	45.74	54.00	-8.26	3	Horizontal	214	1.50	-
5755MHz	Pass	PK	11.51064G	56.37	74.00	-17.63	3	Horizontal	214	1.50	-
5795MHz	Pass	AV	5.795G	111.43	Inf	-Inf	3	Vertical	308	1.00	-
5795MHz	Pass	PK	5.6342G	62.22	68.20	-5.98	3	Vertical	308	1.00	-
5795MHz	Pass	PK	5.795G	120.44	Inf	-Inf	3	Vertical	308	1.00	-
5795MHz	Pass	PK	6.0554G	59.16	68.20	-9.04	3	Vertical	308	1.00	-
5795MHz	Pass	AV	5.7914G	101.94	Inf	-Inf	3	Horizontal	156	1.73	-
5795MHz	Pass	PK	5.5922G	58.10	68.20	-10.10	3	Horizontal	156	1.73	-
5795MHz	Pass	PK	5.7914G	112.18	Inf	-Inf	3	Horizontal	156	1.73	-
5795MHz	Pass	PK	6.0758G	59.73	68.20	-8.47	3	Horizontal	156	1.73	-
5795MHz	Pass	AV	11.58856G	46.26	54.00	-7.74	3	Vertical	242	1.50	-
5795MHz	Pass	PK	11.5788G	56.05	74.00	-17.95	3	Vertical	242	1.50	-
5795MHz	Pass	AV	11.58624G	46.11	54.00	-7.89	3	Horizontal	46	1.48	-
5795MHz	Pass	PK	11.59192G	57.13	74.00	-16.87	3	Horizontal	46	1.48	-
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	5.7774G	105.64	Inf	-Inf	3	Vertical	283	2.24	-
5775MHz	Pass	PK	5.643G	65.06	68.20	-3.14	3	Vertical	283	2.24	-
5775MHz	Pass	PK	5.7774G	114.87	Inf	-Inf	3	Vertical	283	2.24	-
5775MHz	Pass	PK	6.057G	58.29	68.20	-9.91	3	Vertical	283	2.24	-
5775MHz	Pass	AV	5.7786G	94.89	Inf	-Inf	3	Horizontal	183	1.00	-
5775MHz	Pass	PK	5.6454G	59.15	68.20	-9.05	3	Horizontal	183	1.00	-
5775MHz	Pass	PK	5.7738G	103.41	Inf	-Inf	3	Horizontal	183	1.00	-
5775MHz	Pass	PK	5.9598G	57.95	68.20	-10.25	3	Horizontal	183	1.00	-
5775MHz	Pass	AV	11.53024G	45.78	54.00	-8.22	3	Vertical	213	1.08	-
5775MHz	Pass	PK	11.56072G	55.35	74.00	-18.65	3	Vertical	213	1.08	-
5775MHz	Pass	AV	11.54584G	45.40	54.00	-8.60	3	Horizontal	164	1.00	-
5775MHz	Pass	PK	11.53352G	55.78	74.00	-18.22	3	Horizontal	164	1.00	-

802.11a_Nss1,(6Mbps)_4TX

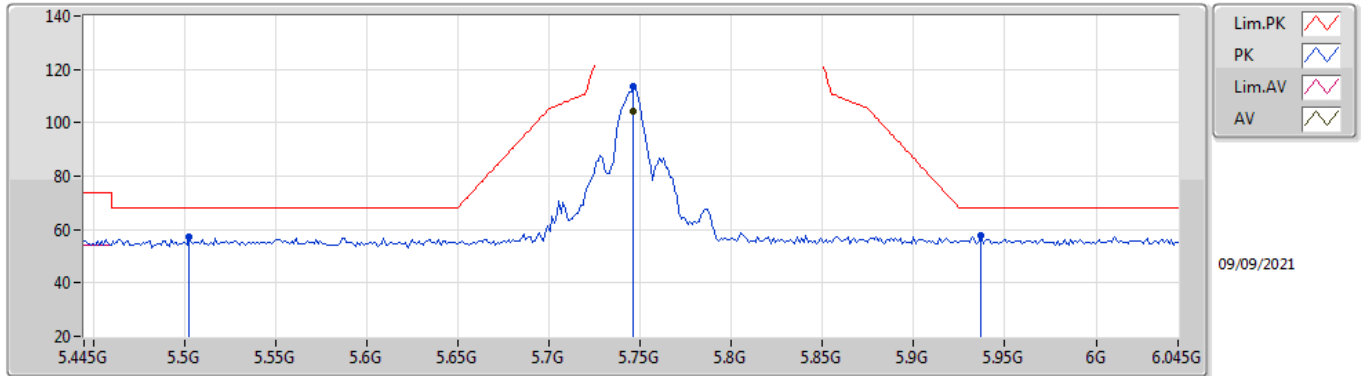
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7438G	114.42	Inf	-Inf	7.21	3	Vertical	270	2.99	-	107.21	31.99	9.50	34.28
PK	5.6382G	60.20	68.20	-8.00	6.82	3	Vertical	270	2.99	-	53.38	31.62	9.47	34.27
PK	5.7438G	123.68	Inf	-Inf	7.21	3	Vertical	270	2.99	-	116.47	31.99	9.50	34.28
PK	6.0402G	57.89	68.20	-10.31	7.90	3	Vertical	270	2.99	-	49.99	32.50	9.71	34.31

802.11a_Nss1,(6Mbps)_4TX

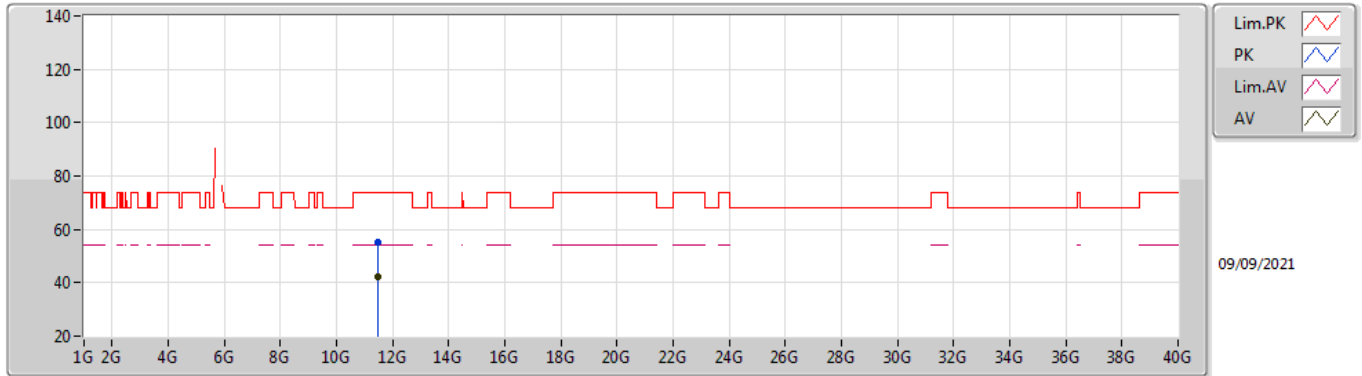
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7462G	104.35	Inf	-Inf	7.21	3	Horizontal	337	1.48	-	97.14	31.99	9.50	34.28
PK	5.5026G	57.11	68.20	-11.09	6.92	3	Horizontal	337	1.48	-	50.19	31.80	9.38	34.26
PK	5.7462G	113.38	Inf	-Inf	7.21	3	Horizontal	337	1.48	-	106.17	31.99	9.50	34.28
PK	5.937G	57.68	68.20	-10.52	7.83	3	Horizontal	337	1.48	-	49.85	32.50	9.63	34.30

802.11a_Nss1,(6Mbps)_4TX

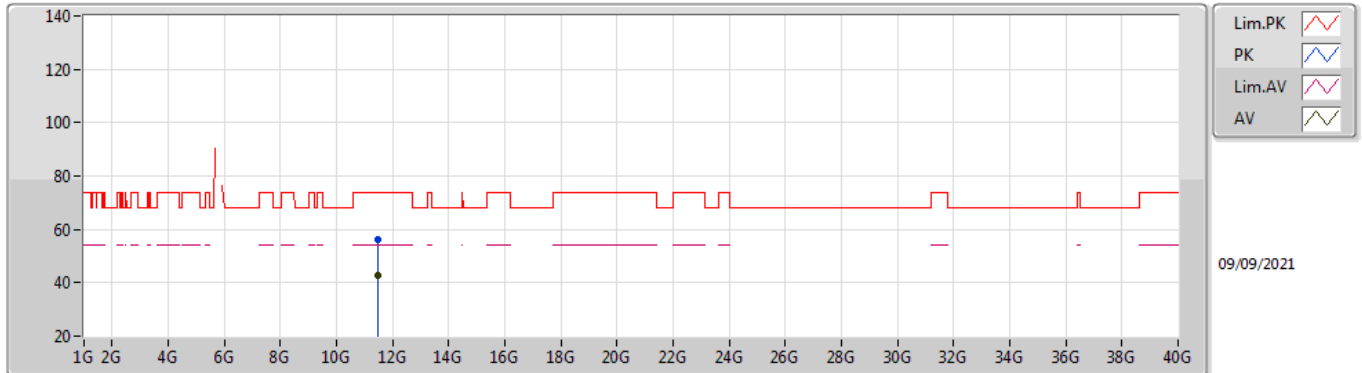
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49222G	42.50	54.00	-11.50	18.76	3	Vertical	81	1.40	-	23.74	40.08	12.84	34.16
PK	11.49086G	55.43	74.00	-18.57	18.76	3	Vertical	81	1.40	-	36.67	40.08	12.84	34.16

802.11a_Nss1,(6Mbps)_4TX

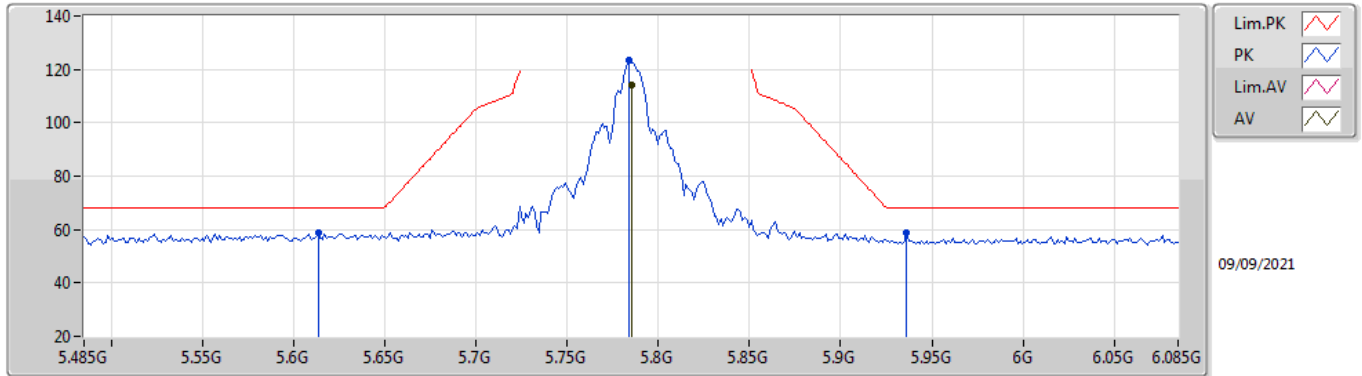
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49176G	42.57	54.00	-11.43	18.76	3	Horizontal	168	2.22	-	23.81	40.08	12.84	34.16
PK	11.49176G	56.44	74.00	-17.56	18.76	3	Horizontal	168	2.22	-	37.68	40.08	12.84	34.16

802.11a_Nss1,(6Mbps)_4TX

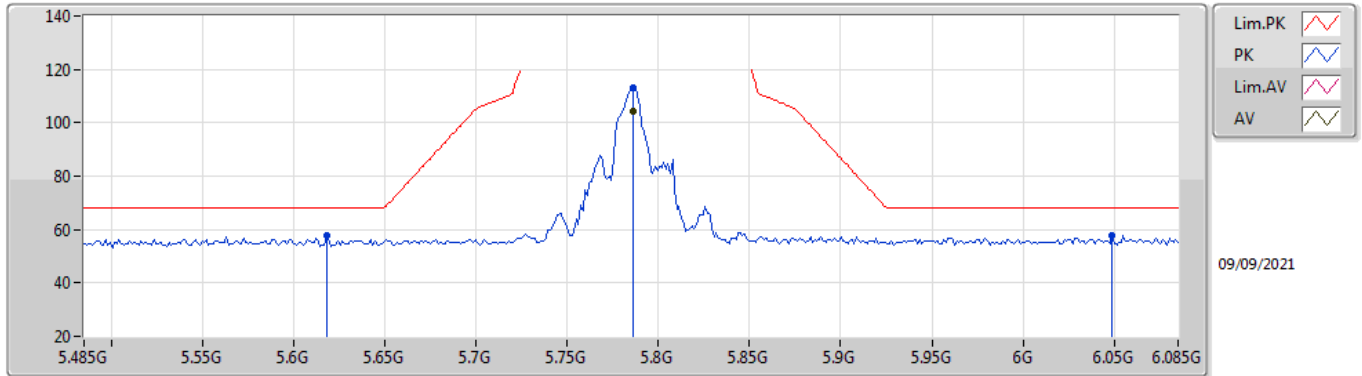
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.785G	114.26	Inf	-Inf	7.30	3	Vertical	269	1.21	-	106.96	32.07	9.52	34.29
PK	5.6134G	58.89	68.20	-9.31	6.86	3	Vertical	269	1.21	-	52.03	31.67	9.46	34.27
PK	5.7838G	123.69	Inf	-Inf	7.30	3	Vertical	269	1.21	-	116.39	32.07	9.52	34.29
PK	5.9362G	58.62	68.20	-9.58	7.83	3	Vertical	269	1.21	-	50.79	32.50	9.63	34.30

802.11a_Nss1,(6Mbps)_4TX

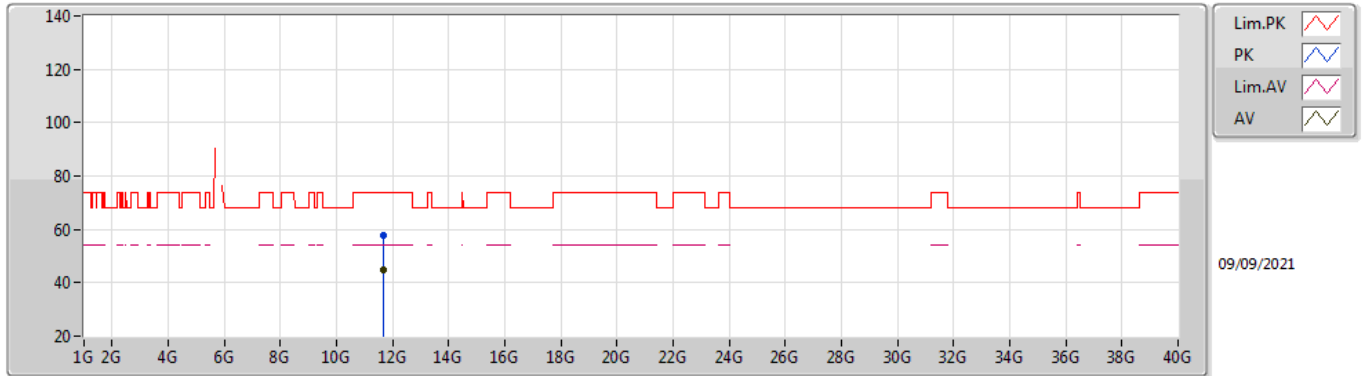
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7862G	104.29	Inf	-Inf	7.30	3	Horizontal	339	1.45	-	96.99	32.07	9.52	34.29
PK	5.6182G	57.89	68.20	-10.31	6.86	3	Horizontal	339	1.45	-	51.03	31.66	9.47	34.27
PK	5.7862G	113.12	Inf	-Inf	7.30	3	Horizontal	339	1.45	-	105.82	32.07	9.52	34.29
PK	6.049G	57.73	68.20	-10.47	7.91	3	Horizontal	339	1.45	-	49.82	32.50	9.72	34.31

802.11a_Nss1,(6Mbps)_4TX

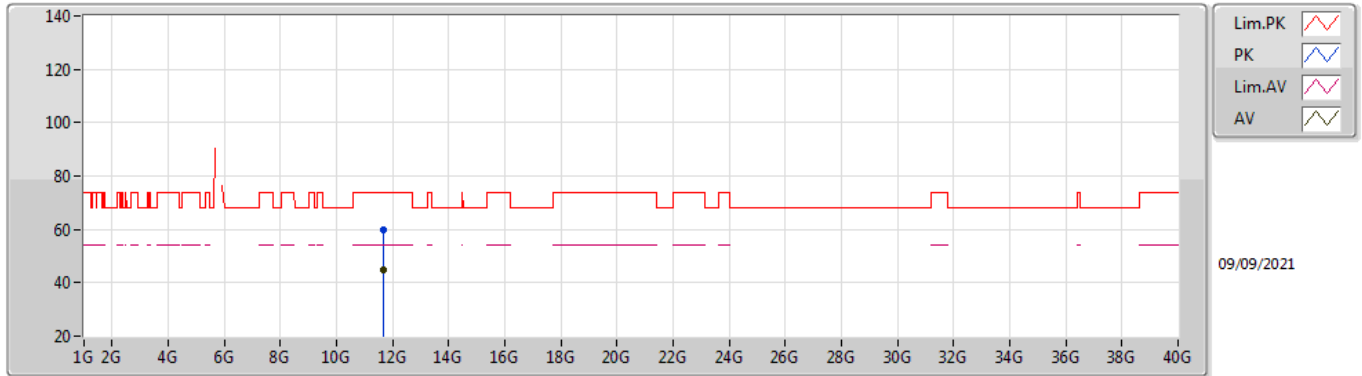
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.65207G	44.71	54.00	-9.29	18.16	3	Vertical	58	1.73	-	26.55	39.49	12.90	34.23
PK	11.65088G	57.91	74.00	-16.09	18.16	3	Vertical	58	1.73	-	39.75	39.49	12.90	34.23

802.11a_Nss1,(6Mbps)_4TX

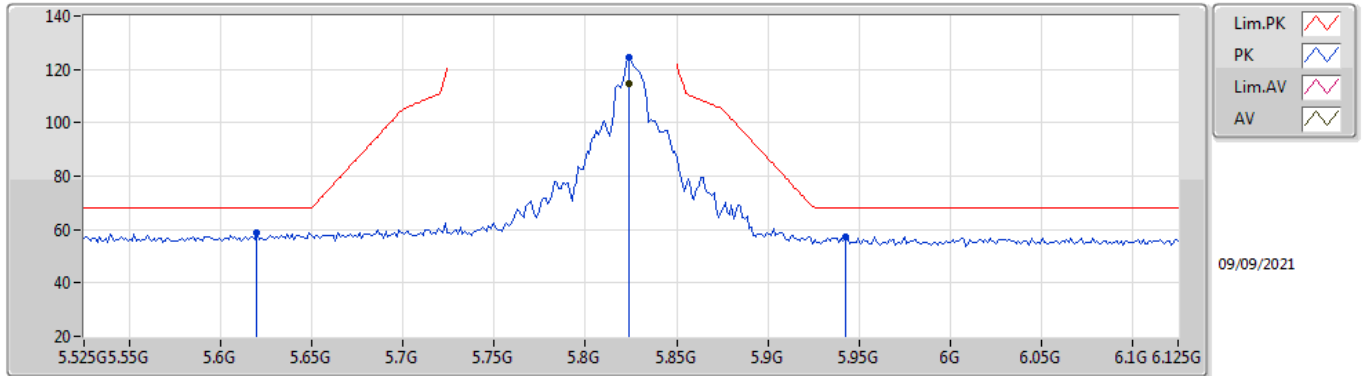
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6522G	44.88	54.00	-9.12	18.16	3	Horizontal	357	1.76	-	26.72	39.49	12.90	34.23
PK	11.65181G	59.67	74.00	-14.33	18.16	3	Horizontal	357	1.76	-	41.51	39.49	12.90	34.23

802.11a_Nss1,(6Mbps)_4TX

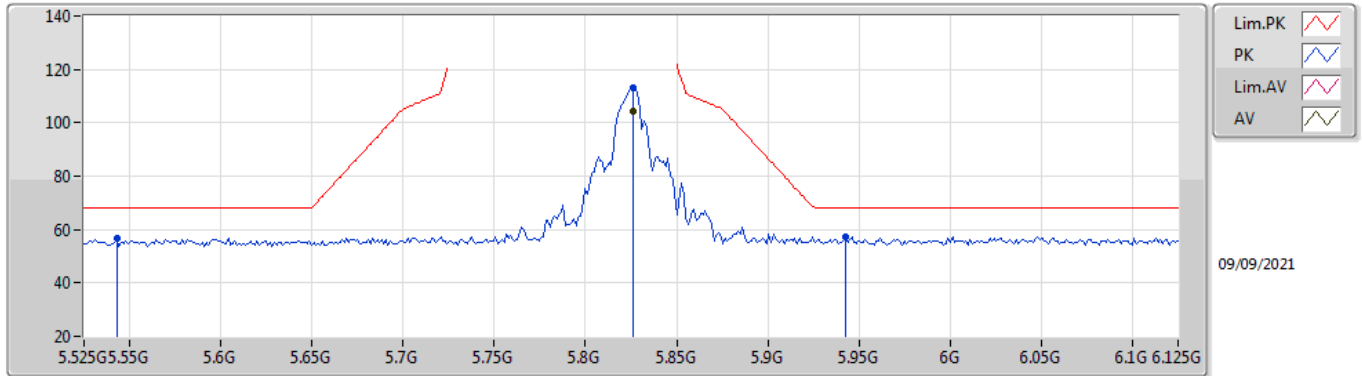
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8238G	114.47	Inf	-Inf	7.45	3	Vertical	269	2.90	-	107.02	32.20	9.54	34.29
PK	5.6198G	58.95	68.20	-9.25	6.86	3	Vertical	269	2.90	-	52.09	31.66	9.47	34.27
PK	5.8238G	124.32	Inf	-Inf	7.45	3	Vertical	269	2.90	-	116.87	32.20	9.54	34.29
PK	5.9426G	57.11	68.20	-11.09	7.83	3	Vertical	269	2.90	-	49.28	32.50	9.63	34.30

802.11a_Nss1,(6Mbps)_4TX

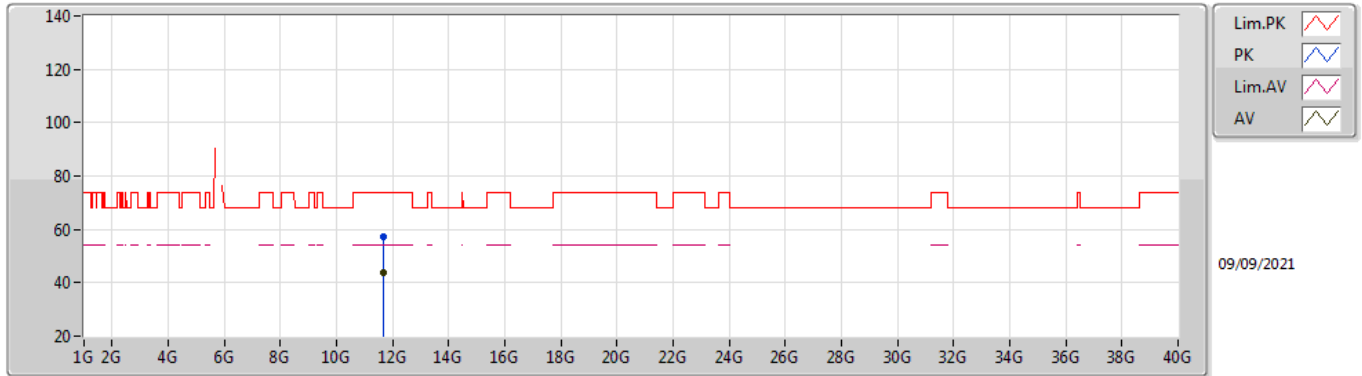
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8262G	104.36	Inf	-Inf	7.45	3	Horizontal	338	1.31	-	96.91	32.20	9.54	34.29
PK	5.543G	56.69	68.20	-11.51	6.95	3	Horizontal	338	1.31	-	49.74	31.80	9.41	34.26
PK	5.8262G	112.96	Inf	-Inf	7.45	3	Horizontal	338	1.31	-	105.51	32.20	9.54	34.29
PK	5.9426G	57.40	68.20	-10.80	7.83	3	Horizontal	338	1.31	-	49.57	32.50	9.63	34.30

802.11a_Nss1,(6Mbps)_4TX

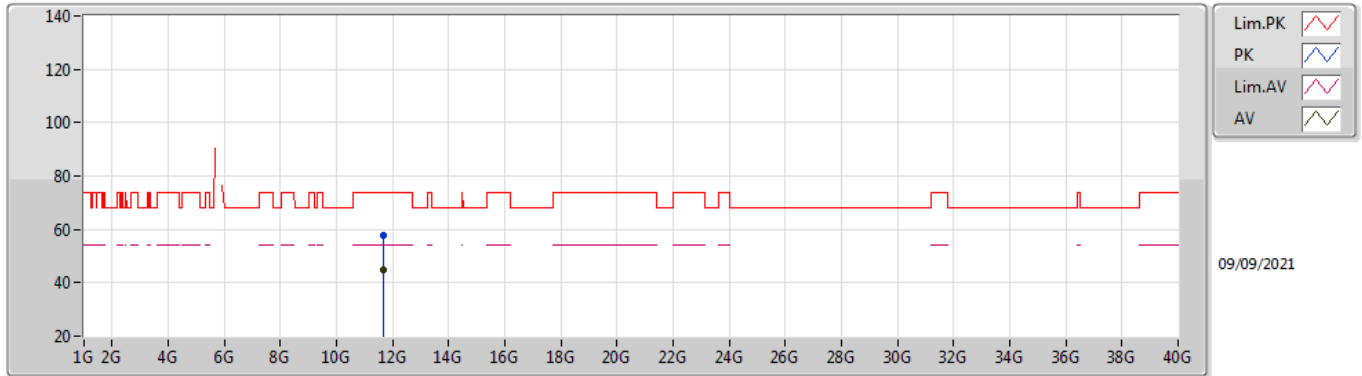
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.65215G	43.69	54.00	-10.31	18.16	3	Vertical	360	1.29	-	25.53	39.49	12.90	34.23
PK	11.65224G	57.06	74.00	-16.94	18.16	3	Vertical	360	1.29	-	38.90	39.49	12.90	34.23

802.11a_Nss1,(6Mbps)_4TX

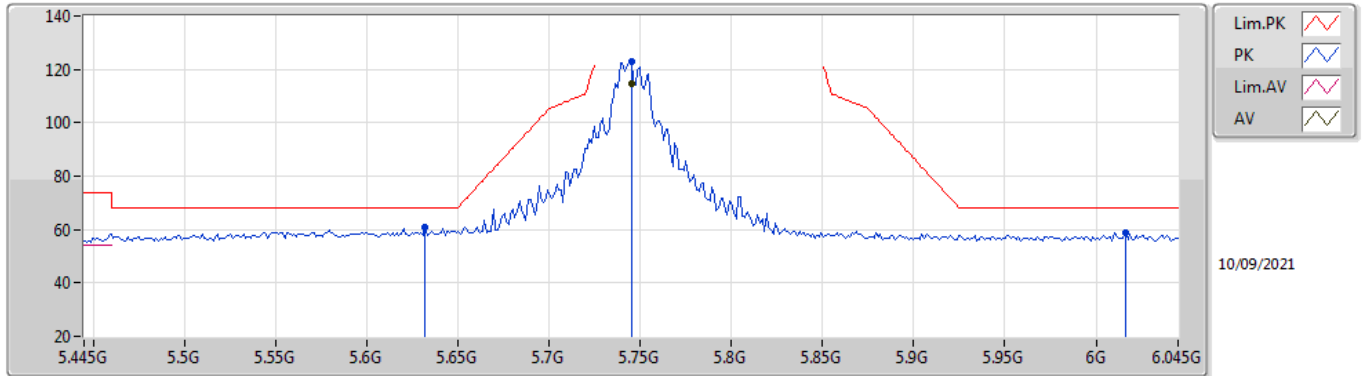
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.65242G	44.80	54.00	-9.20	18.16	3	Horizontal	10	1.12	-	26.64	39.49	12.90	34.23
PK	11.6504G	57.71	74.00	-16.29	18.17	3	Horizontal	10	1.12	-	39.54	39.50	12.90	34.23

802.11ax HEW20_Nss1,(MCS0)_4TX

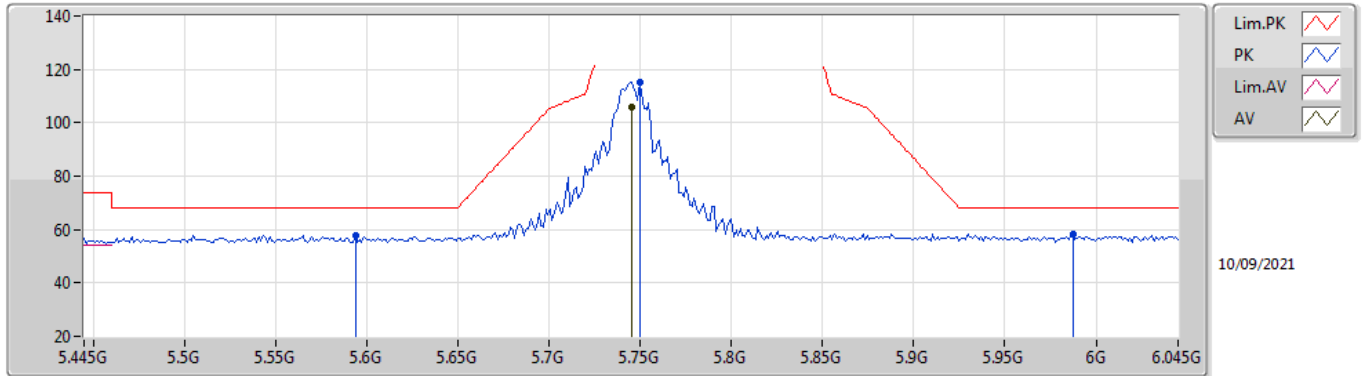
5745MHz_TX



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	5.745G	114.85	Inf	-Inf	7.21	3	Vertical	311	1.45	-	107.64	31.99	9.50	34.28
PK	5.6322G	60.79	68.20	-7.41	6.84	3	Vertical	311	1.45	-	53.95	31.64	9.47	34.27
PK	5.745G	122.88	Inf	-Inf	7.21	3	Vertical	311	1.45	-	115.67	31.99	9.50	34.28
PK	6.0162G	58.90	68.20	-9.30	7.88	3	Vertical	311	1.45	-	51.02	32.50	9.69	34.31

802.11ax HEW20_Nss1,(MCS0)_4TX

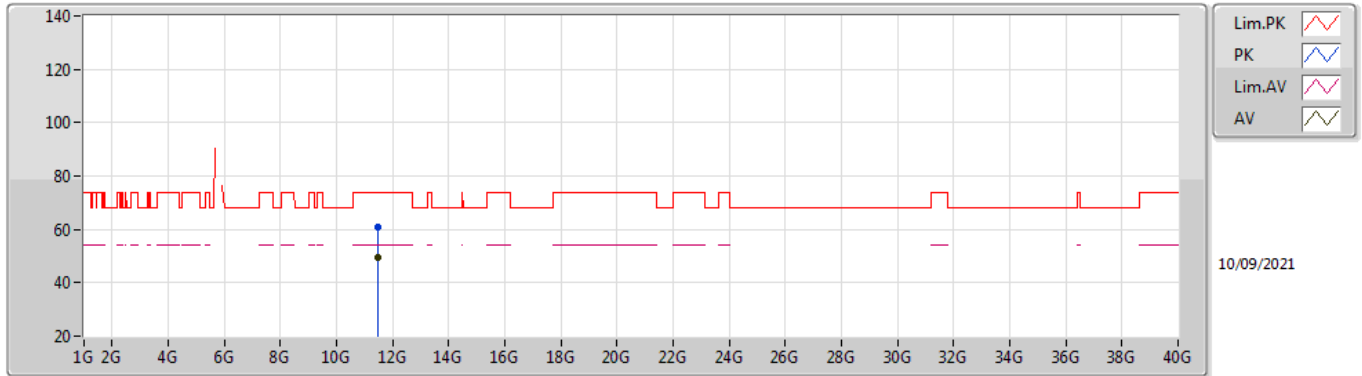
5745MHz_TX



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	5.745G	105.98	Inf	-Inf	7.21	3	Horizontal	182	1.00	-	98.77	31.99	9.50	34.28
PK	5.5938G	57.95	68.20	-10.25	6.90	3	Horizontal	182	1.00	-	51.05	31.71	9.46	34.27
PK	5.7498G	115.33	Inf	-Inf	7.22	3	Horizontal	182	1.00	-	108.11	32.00	9.50	34.28
PK	5.9874G	58.15	68.20	-10.05	7.86	3	Horizontal	182	1.00	-	50.29	32.50	9.67	34.31

802.11ax HEW20_Nss1,(MCS0)_4TX

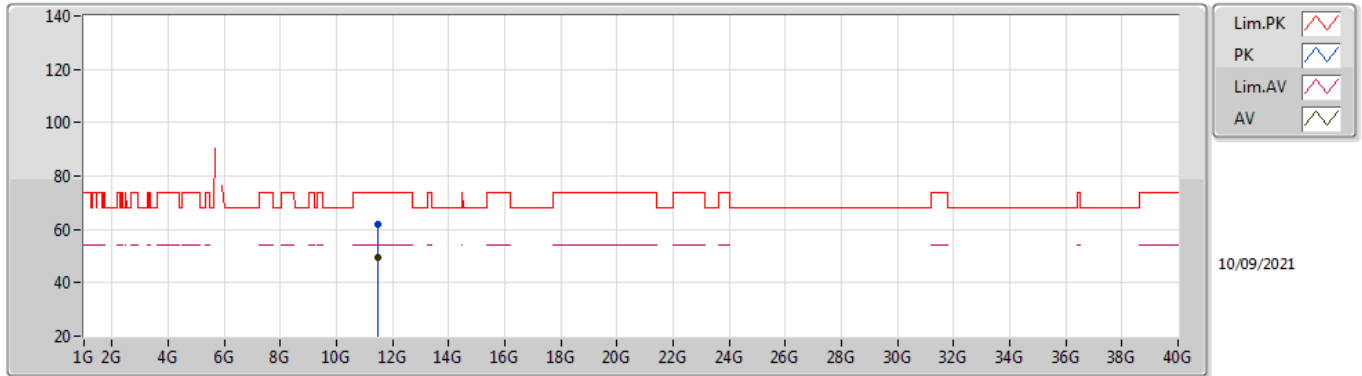
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.49G	49.60	54.00	-4.40	18.76	3	Vertical	222	1.51	-	30.84	40.08	12.84	34.16
PK	11.49068G	60.71	74.00	-13.29	18.76	3	Vertical	222	1.51	-	41.95	40.08	12.84	34.16

802.11ax HEW20_Nss1,(MCS0)_4TX

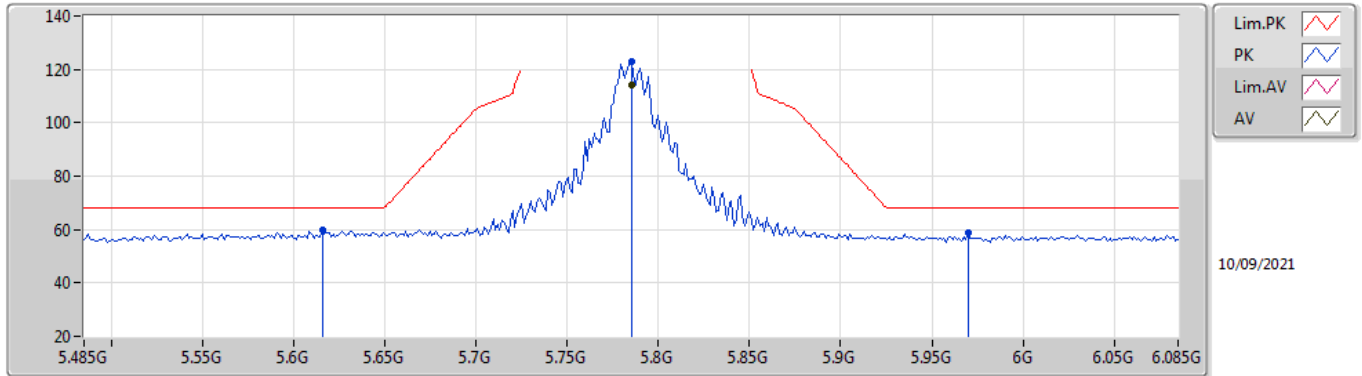
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.4916G	49.71	54.00	-4.29	18.76	3	Horizontal	322	1.13	-	30.95	40.08	12.84	34.16
PK	11.49152G	61.75	74.00	-12.25	18.76	3	Horizontal	322	1.13	-	42.99	40.08	12.84	34.16

802.11ax HEW20_Nss1,(MCS0)_4TX

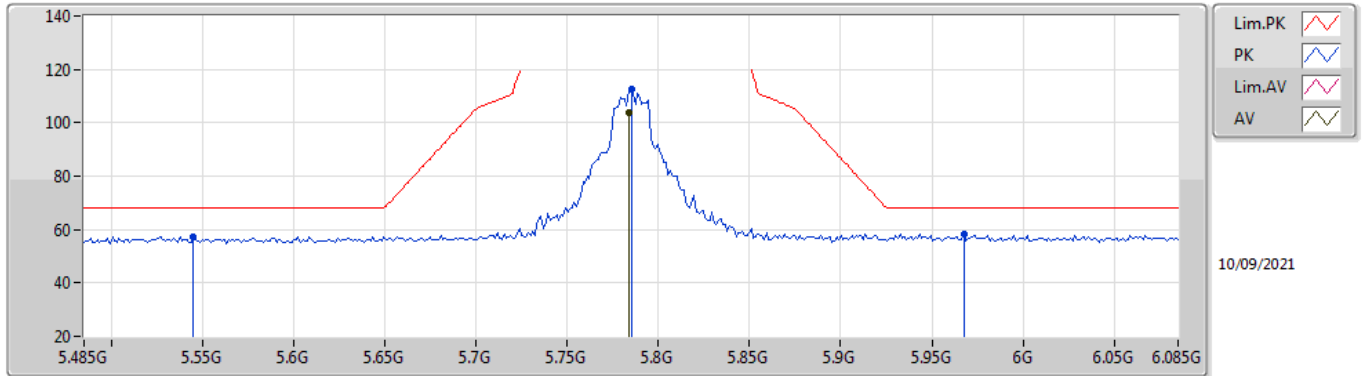
5785MHz_TX



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	5.785G	113.90	Inf	-Inf	7.30	3	Vertical	311	1.04	-	106.60	32.07	9.52	34.29
PK	5.6158G	59.87	68.20	-8.33	6.86	3	Vertical	311	1.04	-	53.01	31.67	9.46	34.27
PK	5.785G	123.17	Inf	-Inf	7.30	3	Vertical	311	1.04	-	115.87	32.07	9.52	34.29
PK	5.9698G	58.68	68.20	-9.52	7.85	3	Vertical	311	1.04	-	50.83	32.50	9.66	34.31

802.11ax HEW20_Nss1,(MCS0)_4TX

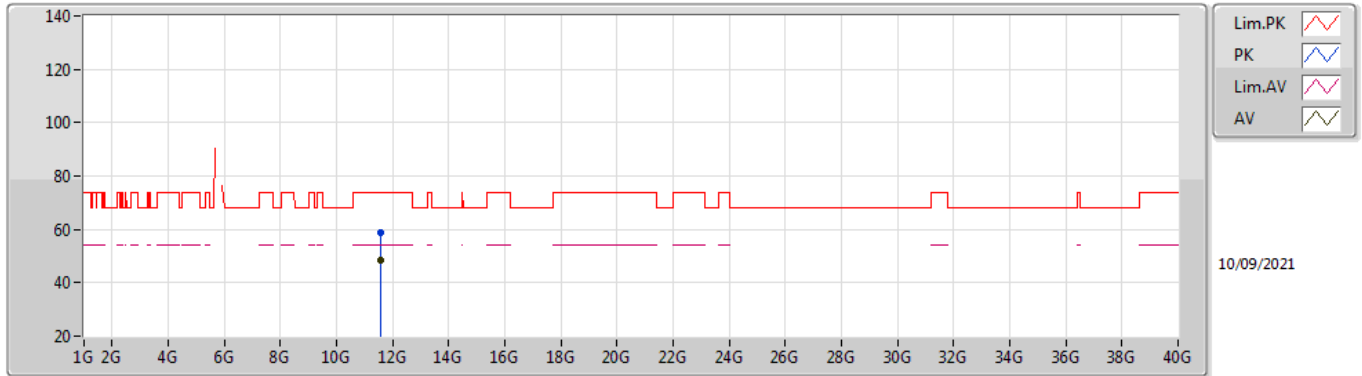
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7838G	103.91	Inf	-Inf	7.30	3	Horizontal	160	1.23	-	96.61	32.07	9.52	34.29
PK	5.545G	57.40	68.20	-10.80	6.96	3	Horizontal	160	1.23	-	50.44	31.80	9.42	34.26
PK	5.785G	112.54	Inf	-Inf	7.30	3	Horizontal	160	1.23	-	105.24	32.07	9.52	34.29
PK	5.9674G	58.47	68.20	-9.73	7.84	3	Horizontal	160	1.23	-	50.63	32.50	9.65	34.31

802.11ax HEW20_Nss1,(MCS0)_4TX

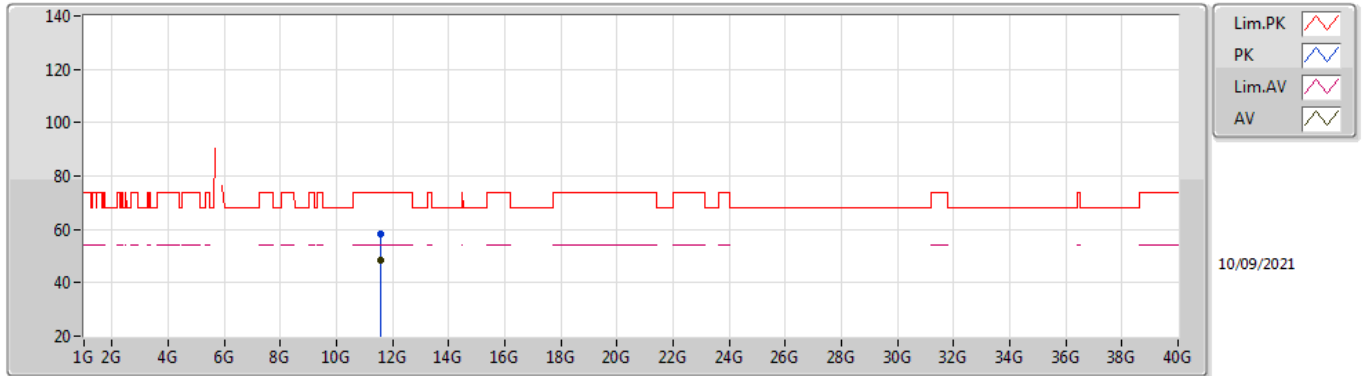
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	11.56384G	58.91	74.00	-15.09	18.59	3	Vertical	239	1.53	-	40.32	39.91	12.87	34.19
AV	11.56872G	48.48	54.00	-5.52	18.57	3	Vertical	239	1.53	-	29.91	39.89	12.87	34.19

802.11ax HEW20_Nss1,(MCS0)_4TX

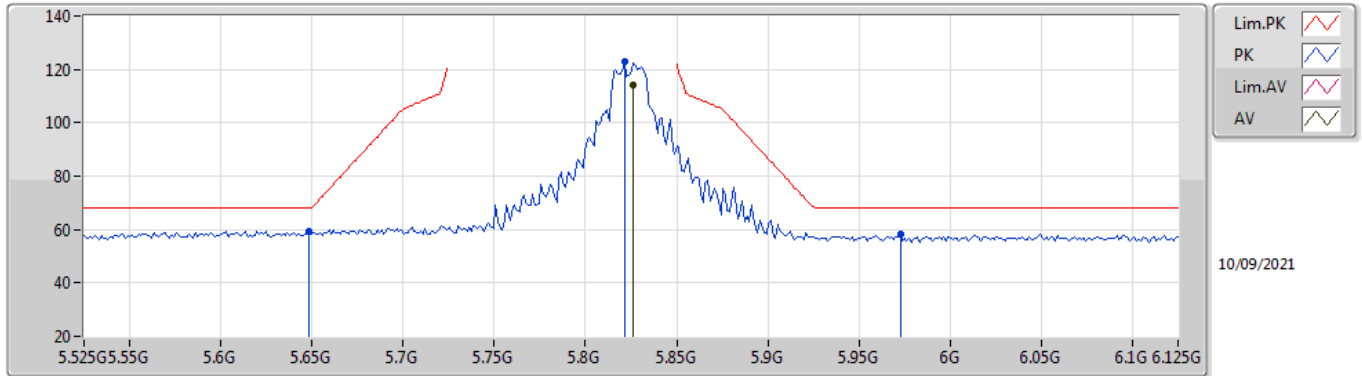
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57168G	48.51	54.00	-5.49	18.56	3	Horizontal	328	1.01	-	29.95	39.88	12.87	34.19
PK	11.57156G	58.44	74.00	-15.56	18.57	3	Horizontal	328	1.01	-	39.87	39.89	12.87	34.19

802.11ax HEW20_Nss1,(MCS0)_4TX

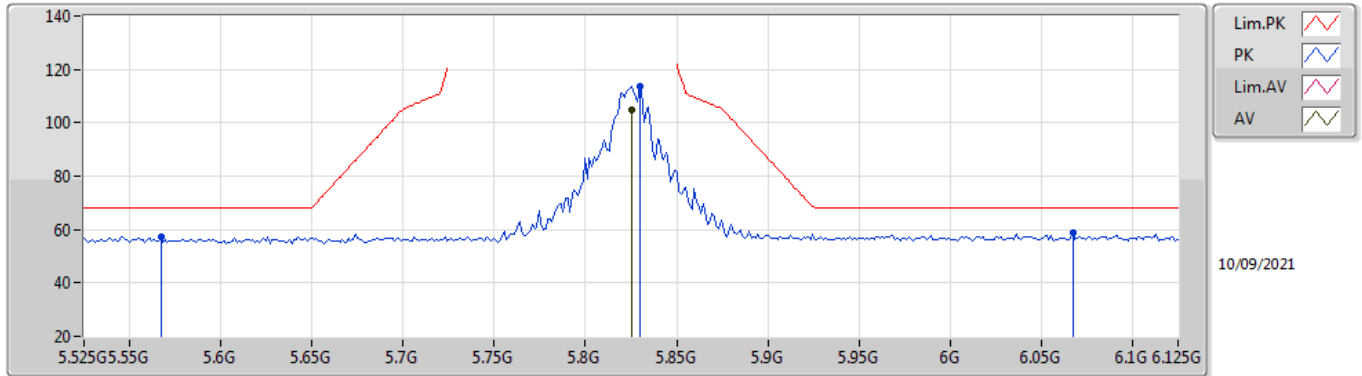
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.8262G	114.34	Inf	-Inf	7.45	3	Vertical	279	2.33	-	106.89	32.20	9.54	34.29
PK	5.6486G	59.35	68.20	-8.85	6.80	3	Vertical	279	2.33	-	52.55	31.60	9.47	34.27
PK	5.8214G	122.86	Inf	-Inf	7.44	3	Vertical	279	2.33	-	115.42	32.19	9.54	34.29
PK	5.9726G	58.10	68.20	-10.10	7.85	3	Vertical	279	2.33	-	50.25	32.50	9.66	34.31

802.11ax HEW20_Nss1,(MCS0)_4TX

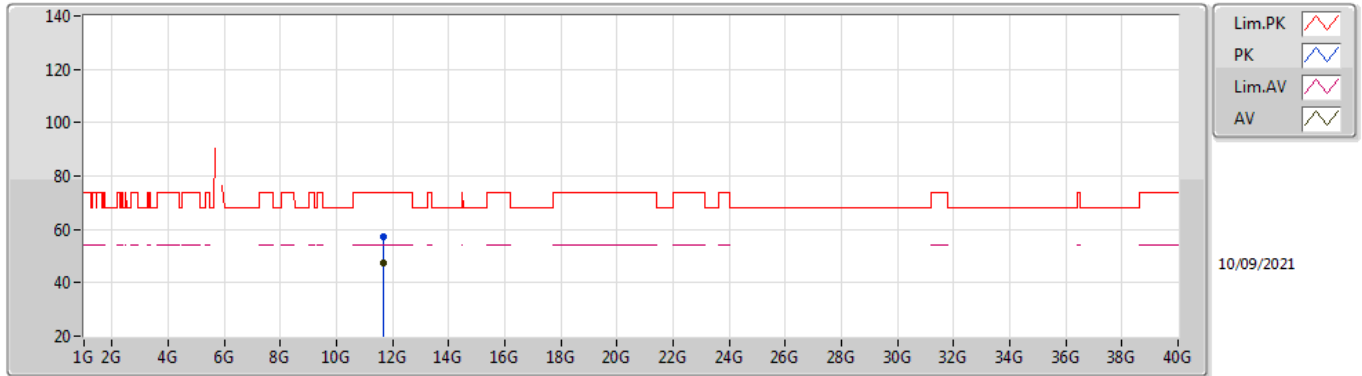
5825MHz_TX



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	5.825G	104.67	Inf	-Inf	7.45	3	Horizontal	183	1.40	-	97.22	32.20	9.54	34.29
PK	5.567G	57.46	68.20	-10.74	6.93	3	Horizontal	183	1.40	-	50.53	31.77	9.43	34.27
PK	5.8298G	113.65	Inf	-Inf	7.47	3	Horizontal	183	1.40	-	106.18	32.22	9.54	34.29
PK	6.0674G	58.65	68.20	-9.55	7.88	3	Horizontal	183	1.40	-	50.77	32.47	9.73	34.32

802.11ax HEW20_Nss1,(MCS0)_4TX

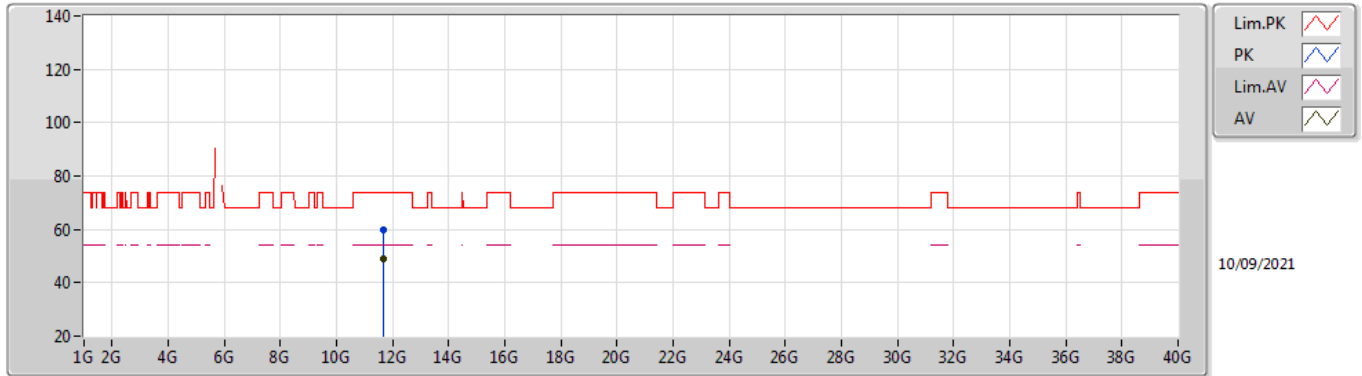
5825MHz_TX



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	11.65044G	47.16	54.00	-6.84	18.17	3	Vertical	249	1.50	-	28.99	39.50	12.90	34.23
PK	11.65132G	57.09	74.00	-16.91	18.16	3	Vertical	249	1.50	-	38.93	39.49	12.90	34.23

802.11ax HEW20_Nss1,(MCS0)_4TX

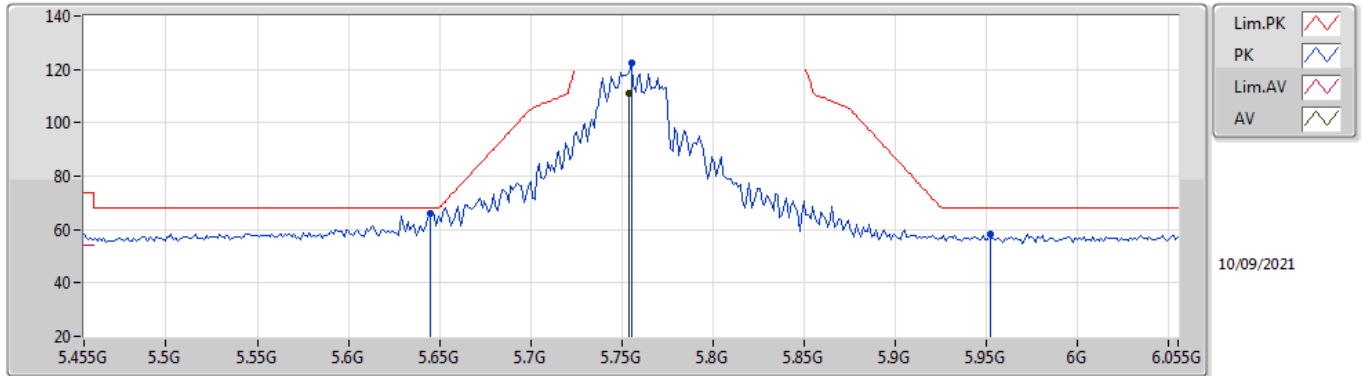
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.65164G	48.89	54.00	-5.11	18.16	3	Horizontal	323	1.08	-	30.73	39.49	12.90	34.23
PK	11.65184G	59.57	74.00	-14.43	18.16	3	Horizontal	323	1.08	-	41.41	39.49	12.90	34.23

802.11ax HEW40_Nss1,(MCS0)_4TX

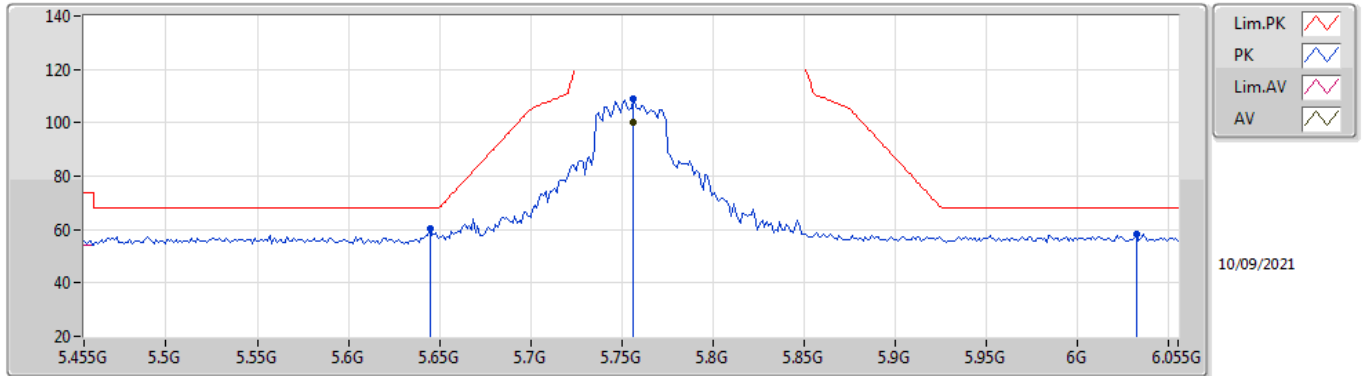
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7538G	110.95	Inf	-Inf	7.23	3	Vertical	309	1.38	-	103.72	32.01	9.51	34.29
PK	5.6446G	66.19	68.20	-2.01	6.81	3	Vertical	309	1.38	-	59.38	31.61	9.47	34.27
PK	5.755G	122.23	Inf	-Inf	7.23	3	Vertical	309	1.38	-	115.00	32.01	9.51	34.29
PK	5.9518G	58.13	68.20	-10.07	7.83	3	Vertical	309	1.38	-	50.30	32.50	9.64	34.31

802.11ax HEW40_Nss1,(MCS0)_4TX

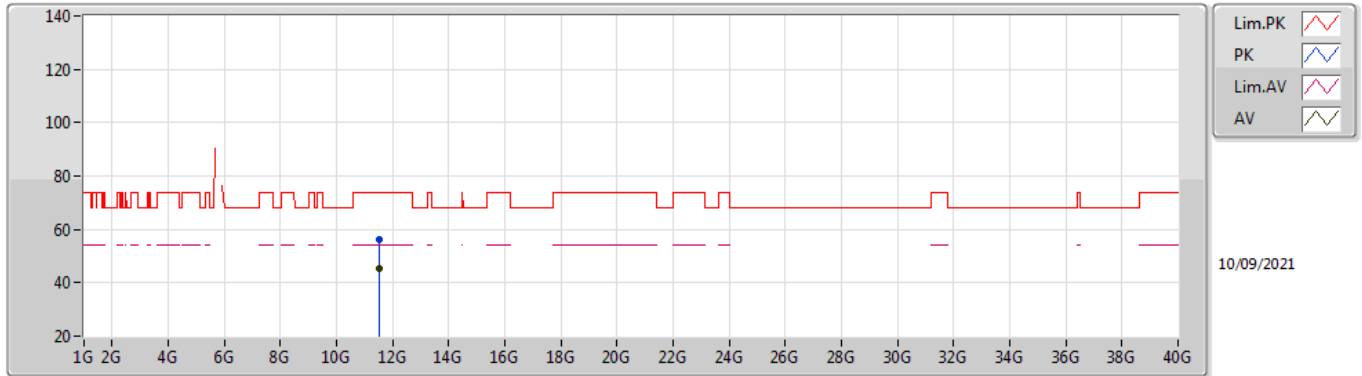
5755MHz_TX



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	5.7562G	100.27	Inf	-Inf	7.23	3	Horizontal	156	1.74	-	93.04	32.01	9.51	34.29
PK	5.6446G	60.54	68.20	-7.66	6.81	3	Horizontal	156	1.74	-	53.73	31.61	9.47	34.27
PK	5.7562G	108.91	Inf	-Inf	7.23	3	Horizontal	156	1.74	-	101.68	32.01	9.51	34.29
PK	6.0322G	58.25	68.20	-9.95	7.90	3	Horizontal	156	1.74	-	50.35	32.50	9.71	34.31

802.11ax HEW40_Nss1,(MCS0)_4TX

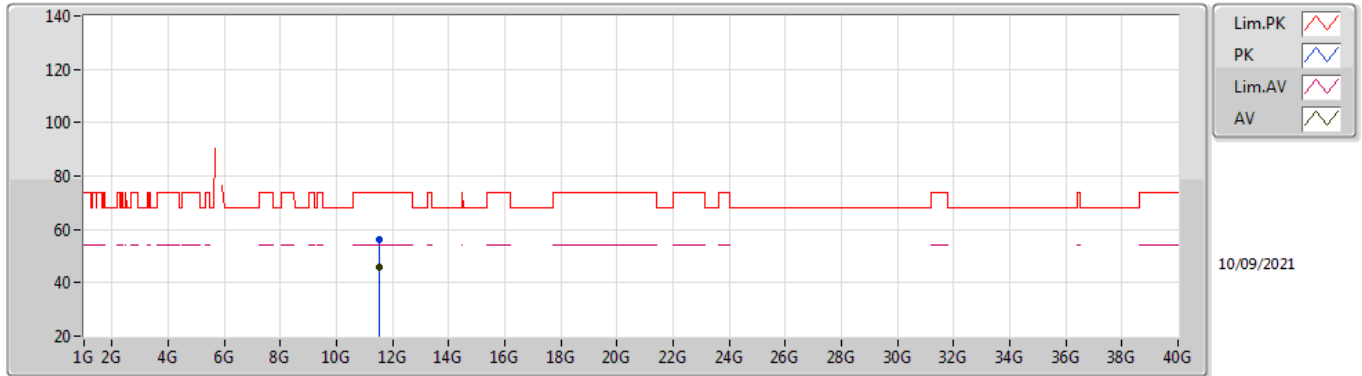
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.51096G	45.42	54.00	-8.58	18.74	3	Vertical	75	1.69	-	26.68	40.07	12.84	34.17
PK	11.512G	56.30	74.00	-17.70	18.74	3	Vertical	75	1.69	-	37.56	40.06	12.85	34.17

802.11ax HEW40_Nss1,(MCS0)_4TX

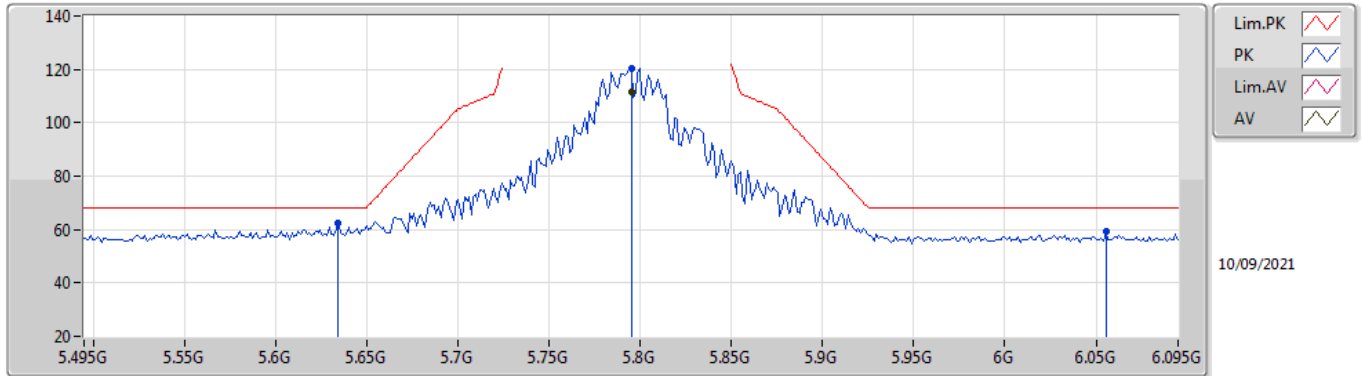
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.51032G	45.74	54.00	-8.26	18.75	3	Horizontal	214	1.50	-	26.99	40.07	12.84	34.16
PK	11.51064G	56.37	74.00	-17.63	18.74	3	Horizontal	214	1.50	-	37.63	40.07	12.84	34.17

802.11ax HEW40_Nss1,(MCS0)_4TX

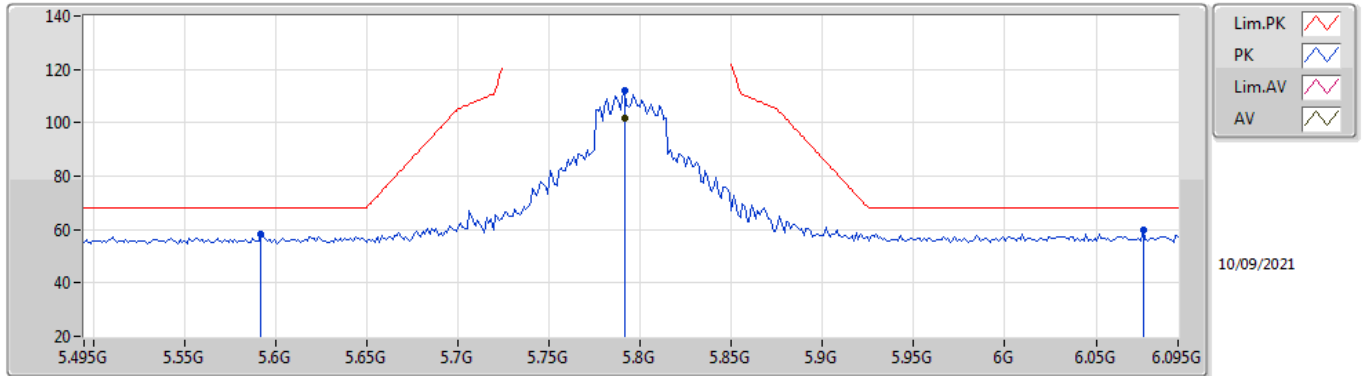
5795MHz_TX



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	5.795G	111.43	Inf	-Inf	7.32	3	Vertical	308	1.00	-	104.11	32.09	9.52	34.29
PK	5.6342G	62.22	68.20	-5.98	6.83	3	Vertical	308	1.00	-	55.39	31.63	9.47	34.27
PK	5.795G	120.44	Inf	-Inf	7.32	3	Vertical	308	1.00	-	113.12	32.09	9.52	34.29
PK	6.0554G	59.16	68.20	-9.04	7.90	3	Vertical	308	1.00	-	51.26	32.49	9.72	34.31

802.11ax HEW40_Nss1,(MCS0)_4TX

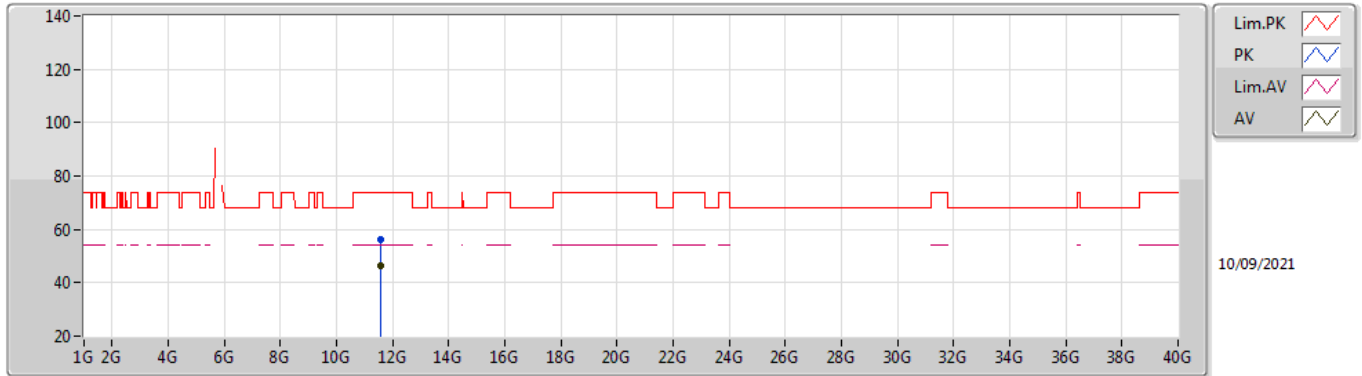
5795MHz_TX



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	101.94	Inf	-Inf	7.31	3	Horizontal	156	1.73	-	94.63	32.08	9.52	34.29
PK	5.5922G	58.10	68.20	-10.10	6.90	3	Horizontal	156	1.73	-	51.20	31.72	9.45	34.27
PK	5.7914G	112.18	Inf	-Inf	7.31	3	Horizontal	156	1.73	-	104.87	32.08	9.52	34.29
PK	6.0758G	59.73	68.20	-8.47	7.87	3	Horizontal	156	1.73	-	51.86	32.45	9.74	34.32

802.11ax HEW40_Nss1,(MCS0)_4TX

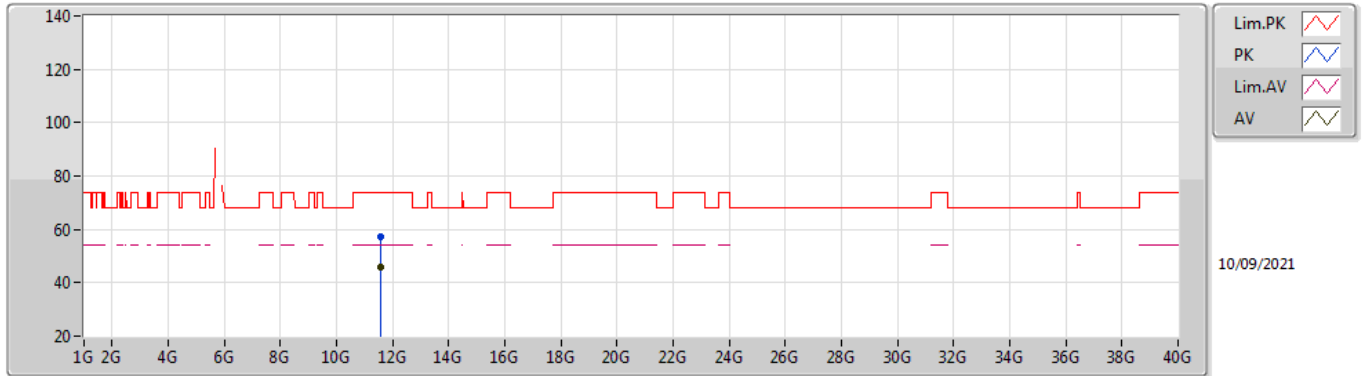
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.58856G	46.26	54.00	-7.74	18.51	3	Vertical	242	1.50	-	27.75	39.83	12.88	34.20
PK	11.5788G	56.05	74.00	-17.95	18.53	3	Vertical	242	1.50	-	37.52	39.86	12.87	34.20

802.11ax HEW40_Nss1,(MCS0)_4TX

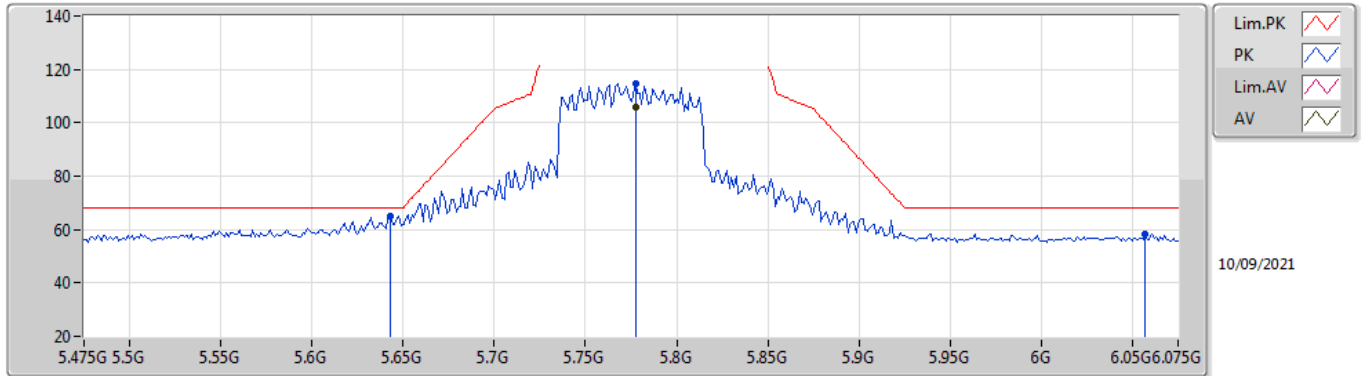
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.58624G	46.11	54.00	-7.89	18.52	3	Horizontal	46	1.48	-	27.59	39.84	12.88	34.20
PK	11.59192G	57.13	74.00	-16.87	18.50	3	Horizontal	46	1.48	-	38.63	39.82	12.88	34.20

802.11ax HEW80_Nss1,(MCS0)_4TX

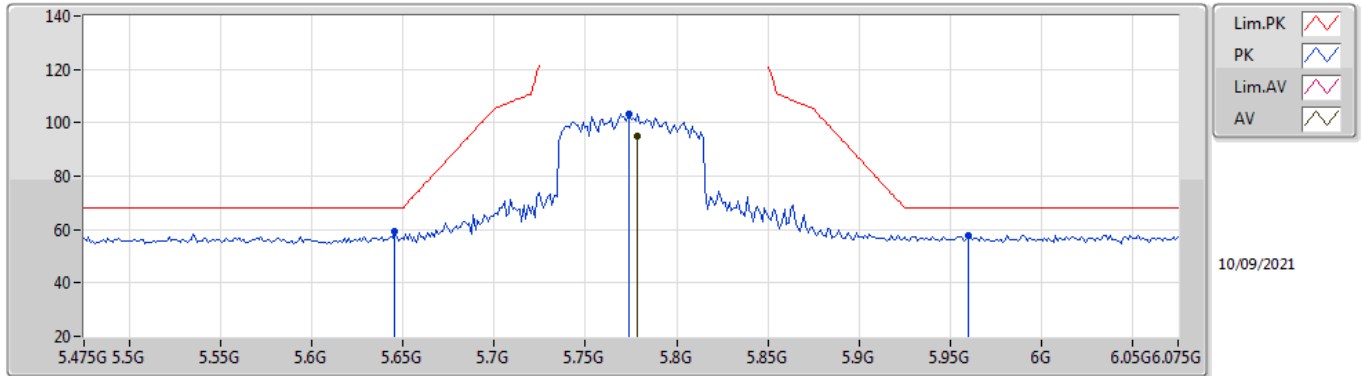
5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7774G	105.64	Inf	-Inf	7.27	3	Vertical	283	2.24	-	98.37	32.05	9.51	34.29
PK	5.643G	65.06	68.20	-3.14	6.81	3	Vertical	283	2.24	-	58.25	31.61	9.47	34.27
PK	5.774G	114.87	Inf	-Inf	7.27	3	Vertical	283	2.24	-	107.60	32.05	9.51	34.29
PK	6.057G	58.29	68.20	-9.91	7.91	3	Vertical	283	2.24	-	50.38	32.49	9.73	34.31

802.11ax HEW80_Nss1,(MCS0)_4TX

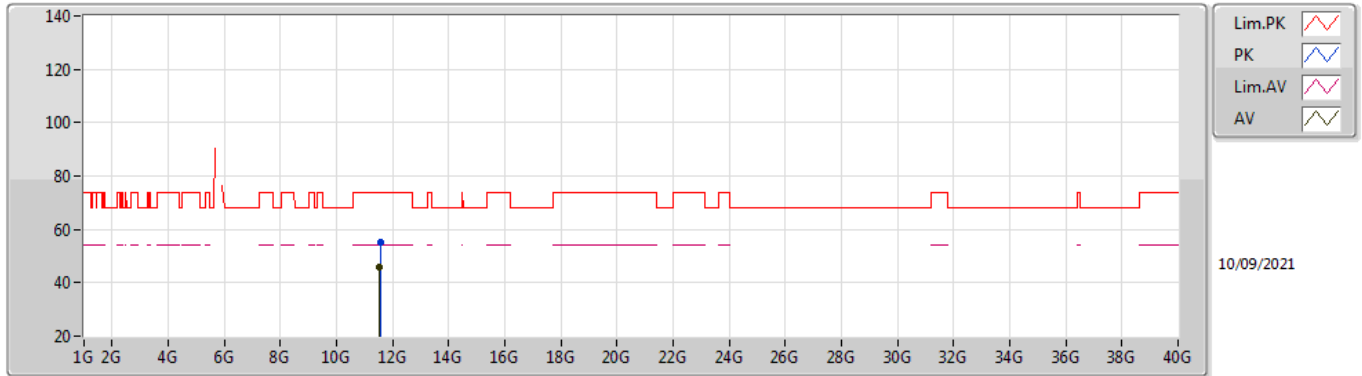
5775MHz_TX



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	5.7786G	94.89	Inf	-Inf	7.28	3	Horizontal	183	1.00	-	87.61	32.06	9.51	34.29
PK	5.6454G	59.15	68.20	-9.05	6.81	3	Horizontal	183	1.00	-	52.34	31.61	9.47	34.27
PK	5.7738G	103.41	Inf	-Inf	7.27	3	Horizontal	183	1.00	-	96.14	32.05	9.51	34.29
PK	5.9598G	57.95	68.20	-10.25	7.84	3	Horizontal	183	1.00	-	50.11	32.50	9.65	34.31

802.11ax HEW80_Nss1,(MCS0)_4TX

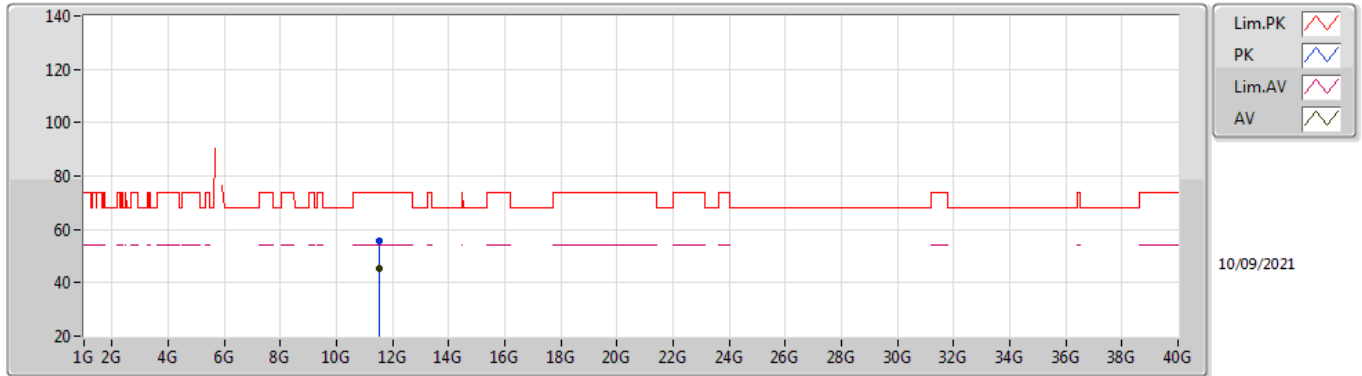
5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.53024G	45.78	54.00	-8.22	18.69	3	Vertical	213	1.08	-	27.09	40.01	12.85	34.17
PK	11.56072G	55.35	74.00	-18.65	18.60	3	Vertical	213	1.08	-	36.75	39.92	12.87	34.19

802.11ax HEW80_Nss1,(MCS0)_4TX

5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.54584G	45.40	54.00	-8.60	18.64	3	Horizontal	164	1.00	-	26.76	39.96	12.86	34.18
PK	11.53352G	55.78	74.00	-18.22	18.67	3	Horizontal	164	1.00	-	37.11	40.00	12.85	34.18



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	Pass	PK	5.613G	58.93	68.20	-9.27	3	Vertical	52	1.54	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	Pass	PK	6.0442G	58.94	68.20	-9.26	3	Horizontal	222	1.44	-
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	Pass	PK	5.6358G	66.98	68.20	-1.22	3	Vertical	48	1.46	-

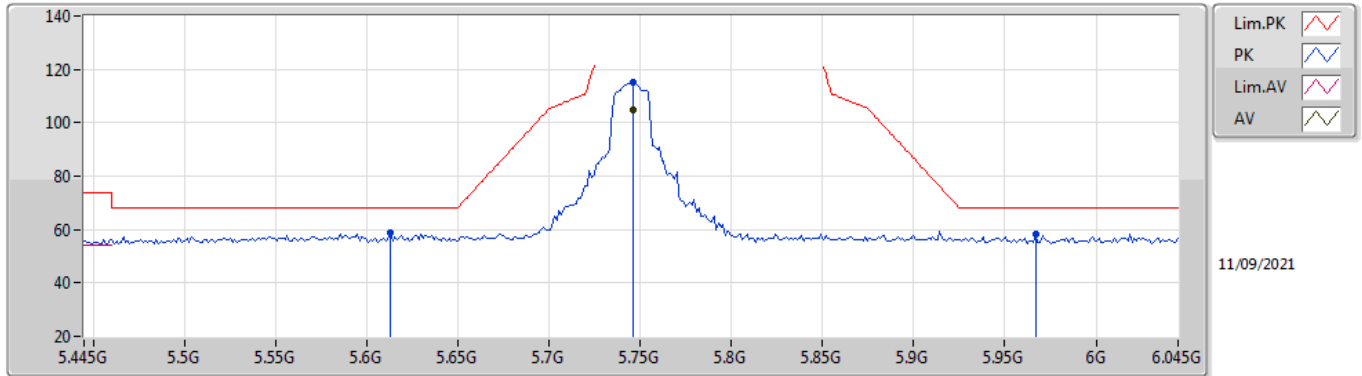
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	AV	5.7462G	104.85	Inf	-Inf	3	Vertical	52	1.54	-
5745MHz	Pass	PK	5.613G	58.93	68.20	-9.27	3	Vertical	52	1.54	-
5745MHz	Pass	PK	5.7462G	115.37	Inf	-Inf	3	Vertical	52	1.54	-
5745MHz	Pass	PK	5.967G	58.52	68.20	-9.68	3	Vertical	52	1.54	-
5745MHz	Pass	AV	5.7462G	92.47	Inf	-Inf	3	Horizontal	222	1.46	-
5745MHz	Pass	PK	5.6046G	57.64	68.20	-10.56	3	Horizontal	222	1.46	-
5745MHz	Pass	PK	5.7426G	103.77	Inf	-Inf	3	Horizontal	222	1.46	-
5745MHz	Pass	PK	5.9382G	57.66	68.20	-10.54	3	Horizontal	222	1.46	-
5745MHz	Pass	AV	11.49676G	42.47	54.00	-11.53	3	Vertical	290	2.10	-
5745MHz	Pass	PK	11.48476G	56.10	74.00	-17.90	3	Vertical	290	2.10	-
5745MHz	Pass	AV	11.49668G	42.39	54.00	-11.61	3	Horizontal	89	1.47	-
5745MHz	Pass	PK	11.49524G	56.39	74.00	-17.61	3	Horizontal	89	1.47	-
5785MHz	Pass	AV	5.7838G	103.79	Inf	-Inf	3	Vertical	44	1.49	-
5785MHz	Pass	PK	5.539G	58.63	68.20	-9.57	3	Vertical	44	1.49	-
5785MHz	Pass	PK	5.785G	114.97	Inf	-Inf	3	Vertical	44	1.49	-
5785MHz	Pass	PK	6.0514G	57.83	68.20	-10.37	3	Vertical	44	1.49	-
5785MHz	Pass	AV	5.7838G	91.13	Inf	-Inf	3	Horizontal	223	1.38	-
5785MHz	Pass	PK	5.5378G	57.50	68.20	-10.70	3	Horizontal	223	1.38	-
5785MHz	Pass	PK	5.7802G	102.23	Inf	-Inf	3	Horizontal	223	1.38	-
5785MHz	Pass	PK	6.0634G	58.36	68.20	-9.84	3	Horizontal	223	1.38	-
5785MHz	Pass	AV	11.56284G	41.95	54.00	-12.05	3	Vertical	124	2.11	-
5785MHz	Pass	PK	11.56408G	55.46	74.00	-18.54	3	Vertical	124	2.11	-
5785MHz	Pass	AV	11.56056G	42.08	54.00	-11.92	3	Horizontal	197	2.45	-
5785MHz	Pass	PK	11.57104G	55.65	74.00	-18.35	3	Horizontal	197	2.45	-
5825MHz	Pass	AV	5.8238G	103.60	Inf	-Inf	3	Vertical	49	1.40	-
5825MHz	Pass	PK	5.5994G	58.02	68.20	-10.18	3	Vertical	49	1.40	-
5825MHz	Pass	PK	5.8286G	114.71	Inf	-Inf	3	Vertical	49	1.40	-
5825MHz	Pass	PK	5.9606G	58.35	68.20	-9.85	3	Vertical	49	1.40	-
5825MHz	Pass	AV	5.8262G	91.60	Inf	-Inf	3	Horizontal	224	1.32	-
5825MHz	Pass	PK	5.5862G	56.91	68.20	-11.29	3	Horizontal	224	1.32	-
5825MHz	Pass	PK	5.8274G	104.20	Inf	-Inf	3	Horizontal	224	1.32	-
5825MHz	Pass	PK	6.0254G	58.06	68.20	-10.14	3	Horizontal	224	1.32	-
5825MHz	Pass	AV	11.6552G	41.49	54.00	-12.51	3	Vertical	53	1.50	-
5825MHz	Pass	PK	11.65064G	54.74	74.00	-19.26	3	Vertical	53	1.50	-
5825MHz	Pass	AV	11.6578G	41.50	54.00	-12.50	3	Horizontal	334	1.50	-
5825MHz	Pass	PK	11.64648G	54.73	74.00	-19.27	3	Horizontal	334	1.50	-
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	AV	5.7562G	101.28	Inf	-Inf	3	Vertical	52	1.53	-
5755MHz	Pass	PK	5.5462G	58.40	68.20	-9.80	3	Vertical	52	1.53	-
5755MHz	Pass	PK	5.7586G	113.39	Inf	-Inf	3	Vertical	52	1.53	-
5755MHz	Pass	PK	5.9482G	58.09	68.20	-10.11	3	Vertical	52	1.53	-
5755MHz	Pass	AV	5.7574G	90.38	Inf	-Inf	3	Horizontal	222	1.44	-
5755MHz	Pass	PK	5.545G	57.35	68.20	-10.85	3	Horizontal	222	1.44	-
5755MHz	Pass	PK	5.7598G	103.58	Inf	-Inf	3	Horizontal	222	1.44	-
5755MHz	Pass	PK	6.0442G	58.94	68.20	-9.26	3	Horizontal	222	1.44	-
5755MHz	Pass	AV	11.51336G	42.62	54.00	-11.38	3	Vertical	135	1.50	-
5755MHz	Pass	PK	11.51224G	56.18	74.00	-17.82	3	Vertical	135	1.50	-
5755MHz	Pass	AV	11.52584G	42.63	54.00	-11.37	3	Horizontal	68	2.68	-
5755MHz	Pass	PK	11.50832G	55.69	74.00	-18.31	3	Horizontal	68	2.68	-
5795MHz	Pass	AV	5.7938G	99.71	Inf	-Inf	3	Vertical	74	1.50	-
5795MHz	Pass	PK	5.621G	58.21	68.20	-9.99	3	Vertical	74	1.50	-
5795MHz	Pass	PK	5.7914G	111.66	Inf	-Inf	3	Vertical	74	1.50	-
5795MHz	Pass	PK	6.0794G	57.85	68.20	-10.35	3	Vertical	74	1.50	-
5795MHz	Pass	AV	5.7962G	89.46	Inf	-Inf	3	Horizontal	223	1.35	-
5795MHz	Pass	PK	5.513G	57.16	68.20	-11.04	3	Horizontal	223	1.35	-
5795MHz	Pass	PK	5.7962G	101.32	Inf	-Inf	3	Horizontal	223	1.35	-
5795MHz	Pass	PK	6.0578G	58.41	68.20	-9.79	3	Horizontal	223	1.35	-
5795MHz	Pass	AV	11.57408G	42.27	54.00	-11.73	3	Vertical	279	1.50	-
5795MHz	Pass	PK	11.60984G	55.21	74.00	-18.79	3	Vertical	279	1.50	-
5795MHz	Pass	AV	11.57176G	42.22	54.00	-11.78	3	Horizontal	322	1.50	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5795MHz	Pass	PK	11.58016G	55.61	74.00	-18.39	3	Horizontal	322	1.50	-
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	AV	5.7774G	100.57	Inf	-Inf	3	Vertical	48	1.46	-
5775MHz	Pass	PK	5.6358G	66.98	68.20	-1.22	3	Vertical	48	1.46	-
5775MHz	Pass	PK	5.7774G	110.17	Inf	-Inf	3	Vertical	48	1.46	-
5775MHz	Pass	PK	6.0222G	58.25	68.20	-9.95	3	Vertical	48	1.46	-
5775MHz	Pass	AV	5.7738G	86.82	Inf	-Inf	3	Horizontal	222	1.50	-
5775MHz	Pass	PK	5.541G	58.76	68.20	-9.44	3	Horizontal	222	1.50	-
5775MHz	Pass	PK	5.7678G	97.38	Inf	-Inf	3	Horizontal	222	1.50	-
5775MHz	Pass	PK	6.0042G	58.63	68.20	-9.57	3	Horizontal	222	1.50	-
5775MHz	Pass	AV	11.5448G	44.32	54.00	-9.68	3	Vertical	13	1.50	-
5775MHz	Pass	PK	11.5416G	55.90	74.00	-18.10	3	Vertical	13	1.50	-
5775MHz	Pass	AV	11.5364G	44.19	54.00	-9.81	3	Horizontal	187	2.51	-
5775MHz	Pass	PK	11.56576G	56.16	74.00	-17.84	3	Horizontal	187	2.51	-

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

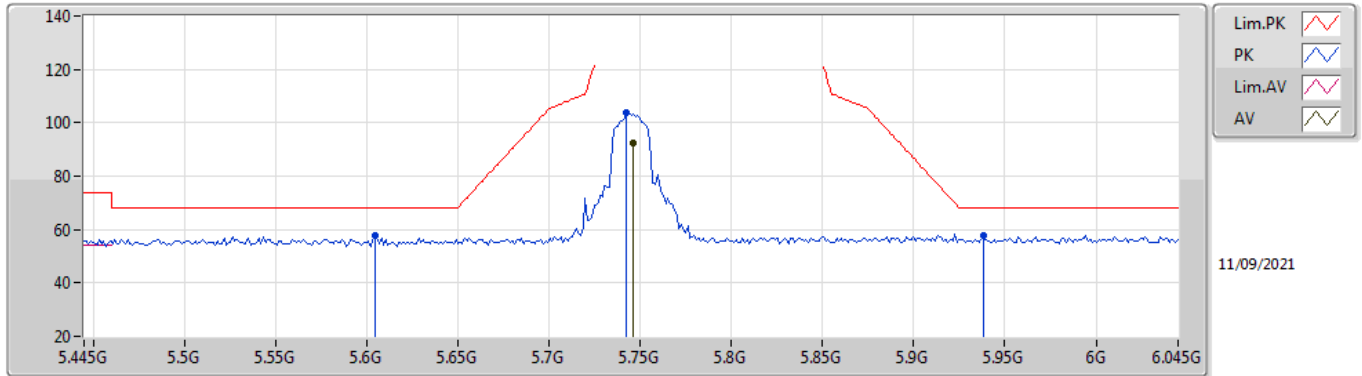
5745MHz_TX



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	5.7462G	104.85	Inf	-Inf	7.21	3	Vertical	52	1.54	-	97.64	31.99	9.50	34.28
PK	5.613G	58.93	68.20	-9.27	6.86	3	Vertical	52	1.54	-	52.07	31.67	9.46	34.27
PK	5.7462G	115.37	Inf	-Inf	7.21	3	Vertical	52	1.54	-	108.16	31.99	9.50	34.28
PK	5.967G	58.52	68.20	-9.68	7.84	3	Vertical	52	1.54	-	50.68	32.50	9.65	34.31

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

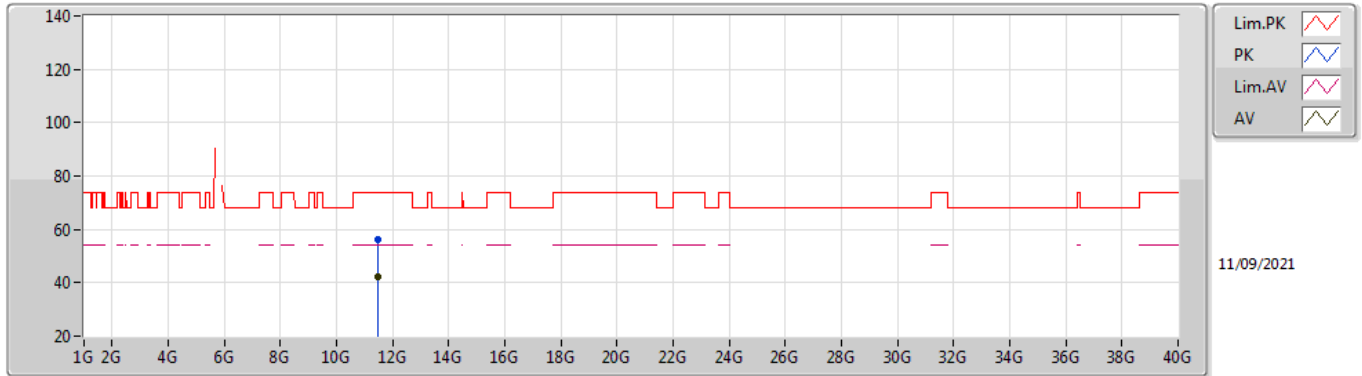
5745MHz_TX



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	5.7462G	92.47	Inf	-Inf	7.21	3	Horizontal	222	1.46	-	85.26	31.99	9.50	34.28
PK	5.6046G	57.64	68.20	-10.56	6.88	3	Horizontal	222	1.46	-	50.76	31.69	9.46	34.27
PK	5.7426G	103.77	Inf	-Inf	7.21	3	Horizontal	222	1.46	-	96.56	31.99	9.50	34.28
PK	5.9382G	57.66	68.20	-10.54	7.83	3	Horizontal	222	1.46	-	49.83	32.50	9.63	34.30

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

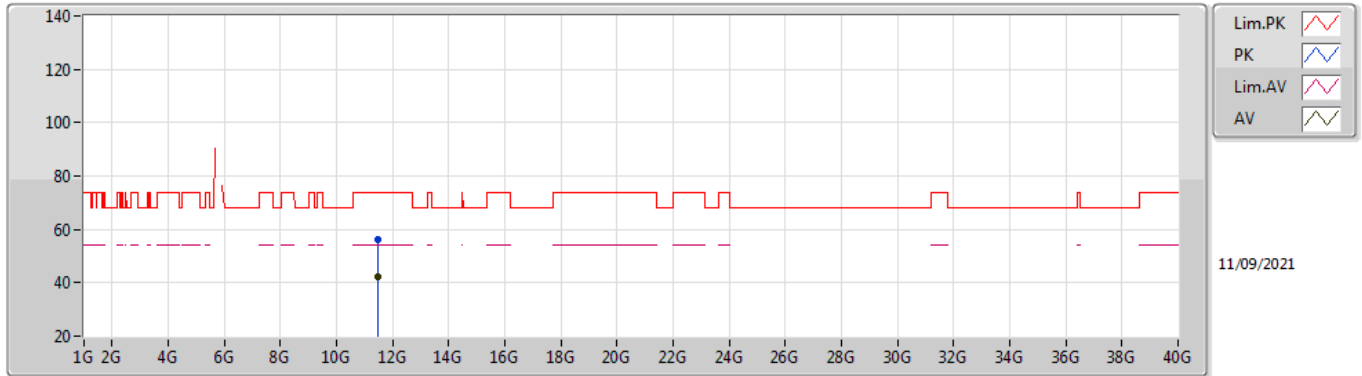
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49676G	42.47	54.00	-11.53	18.77	3	Vertical	290	2.10	-	23.70	40.09	12.84	34.16
PK	11.48476G	56.10	74.00	-17.90	18.74	3	Vertical	290	2.10	-	37.36	40.07	12.83	34.16

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

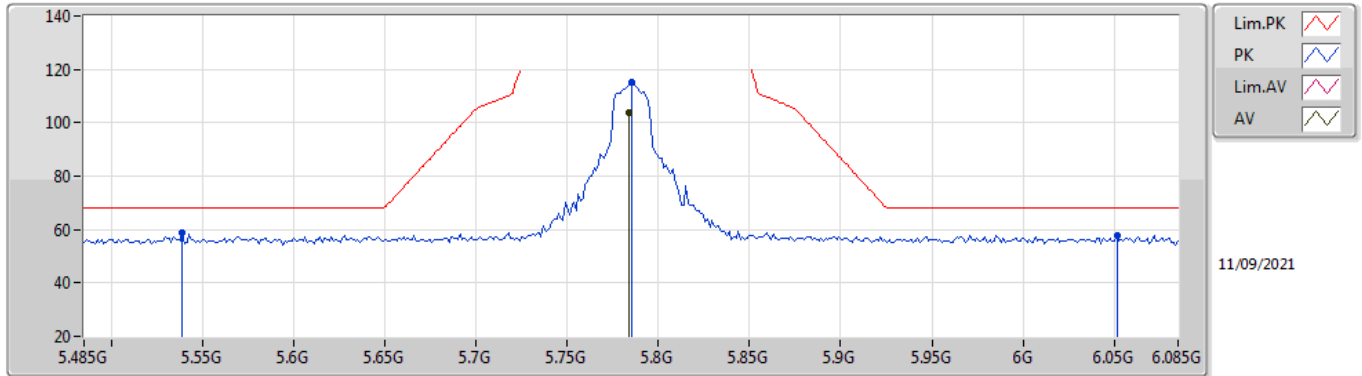
5745MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.49668G	42.39	54.00	-11.61	18.77	3	Horizontal	89	1.47	-	23.62	40.09	12.84	34.16
PK	11.49524G	56.39	74.00	-17.61	18.77	3	Horizontal	89	1.47	-	37.62	40.09	12.84	34.16

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

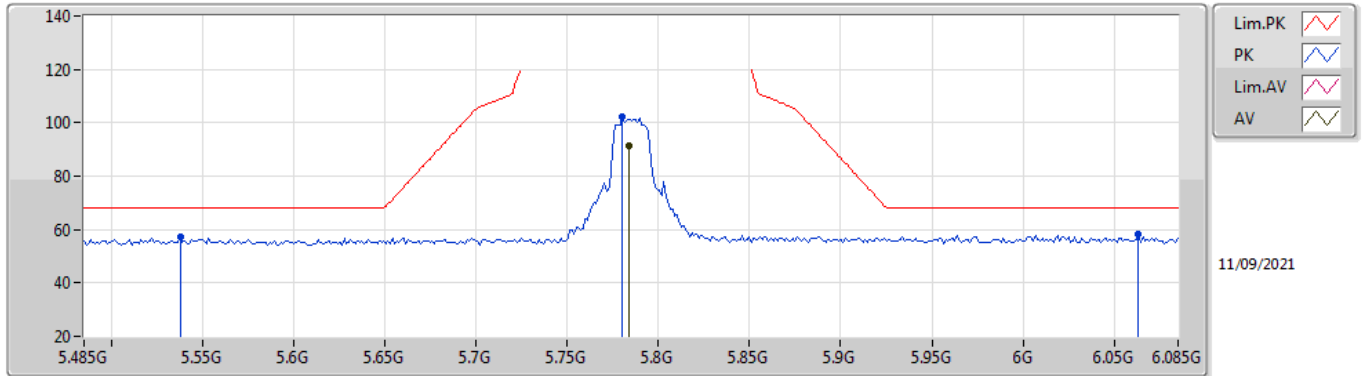
5785MHz_TX



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	5.7838G	103.79	Inf	-Inf	7.30	3	Vertical	44	1.49	-	96.49	32.07	9.52	34.29
PK	5.539G	58.63	68.20	-9.57	6.95	3	Vertical	44	1.49	-	51.68	31.80	9.41	34.26
PK	5.785G	114.97	Inf	-Inf	7.30	3	Vertical	44	1.49	-	107.67	32.07	9.52	34.29
PK	6.0514G	57.83	68.20	-10.37	7.91	3	Vertical	44	1.49	-	49.92	32.50	9.72	34.31

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

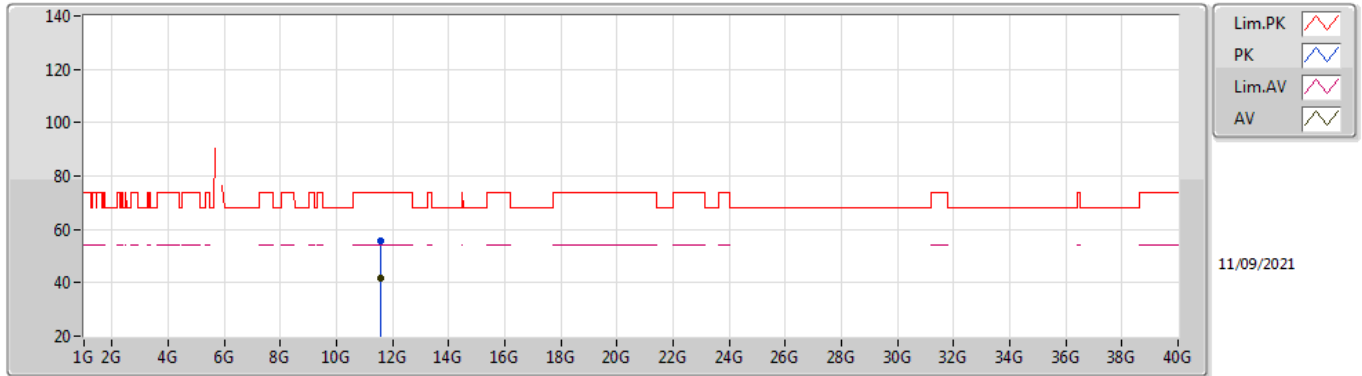
5785MHz_TX



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	5.7838G	91.13	Inf	-Inf	7.30	3	Horizontal	223	1.38	-	83.83	32.07	9.52	34.29
PK	5.5378G	57.50	68.20	-10.70	6.95	3	Horizontal	223	1.38	-	50.55	31.80	9.41	34.26
PK	5.7802G	102.23	Inf	-Inf	7.28	3	Horizontal	223	1.38	-	94.95	32.06	9.51	34.29
PK	6.0634G	58.36	68.20	-9.84	7.88	3	Horizontal	223	1.38	-	50.48	32.47	9.73	34.32

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

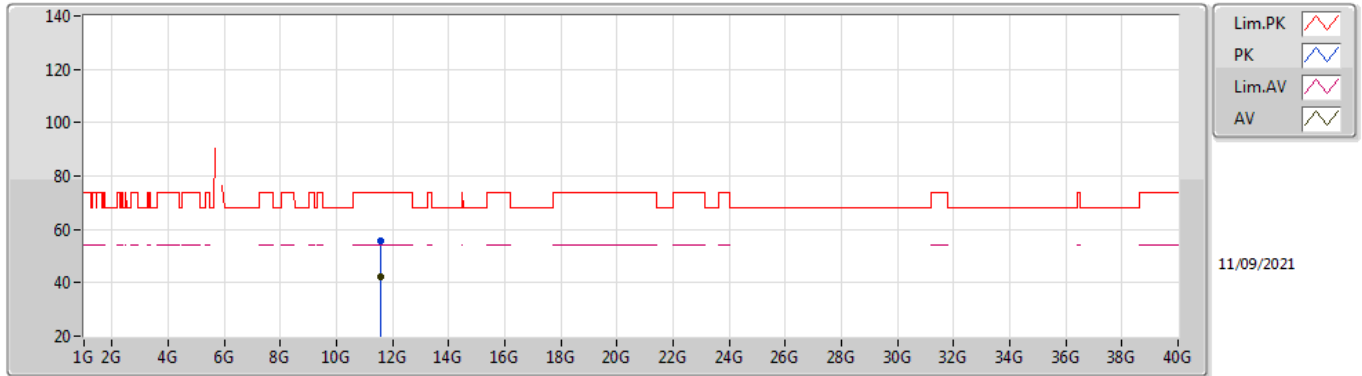
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56284G	41.95	54.00	-12.05	18.59	3	Vertical	124	2.11	-	23.36	39.91	12.87	34.19
PK	11.56408G	55.46	74.00	-18.54	18.59	3	Vertical	124	2.11	-	36.87	39.91	12.87	34.19

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

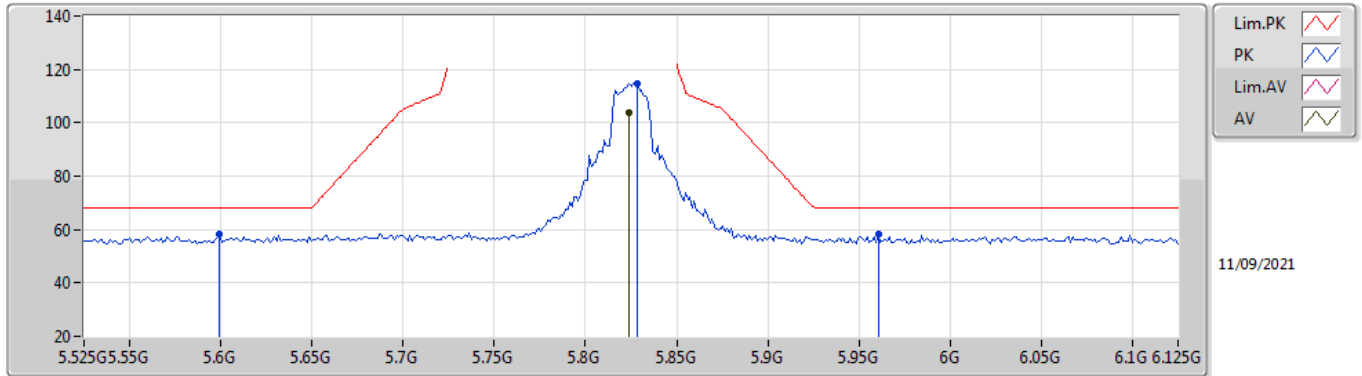
5785MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.56056G	42.08	54.00	-11.92	18.60	3	Horizontal	197	2.45	-	23.48	39.92	12.87	34.19
PK	11.57104G	55.65	74.00	-18.35	18.57	3	Horizontal	197	2.45	-	37.08	39.89	12.87	34.19

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

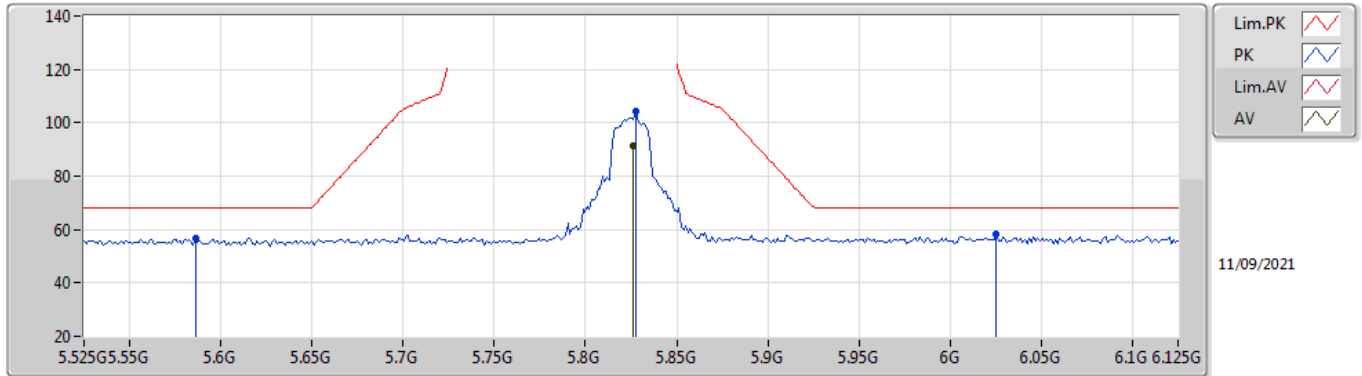
5825MHz_TX



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	103.60	Inf	-Inf	7.45	3	Vertical	49	1.40	-	96.15	32.20	9.54	34.29
PK	5.5994G	58.02	68.20	-10.18	6.89	3	Vertical	49	1.40	-	51.13	31.70	9.46	34.27
PK	5.8286G	114.71	Inf	-Inf	7.46	3	Vertical	49	1.40	-	107.25	32.21	9.54	34.29
PK	5.9606G	58.35	68.20	-9.85	7.84	3	Vertical	49	1.40	-	50.51	32.50	9.65	34.31

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

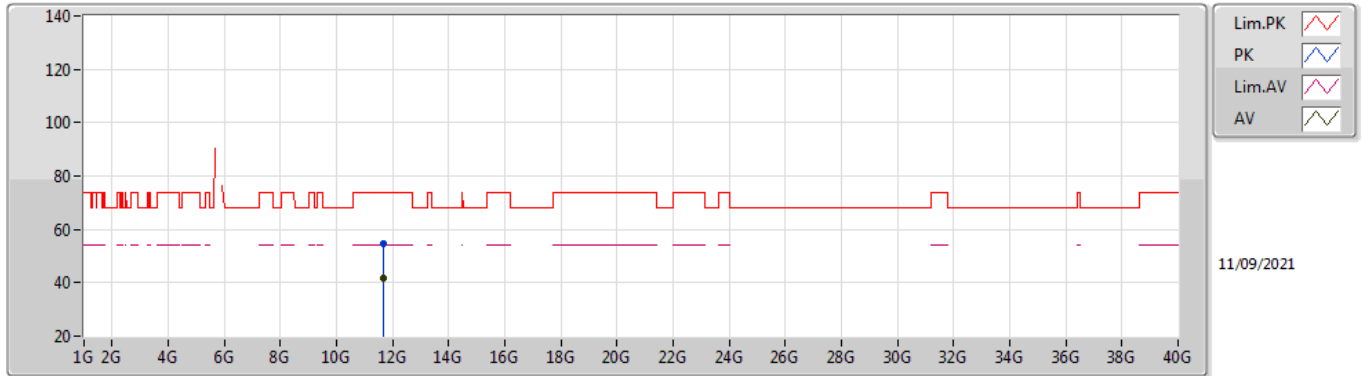
5825MHz_TX



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	5.8262G	91.60	Inf	-Inf	7.45	3	Horizontal	224	1.32	-	84.15	32.20	9.54	34.29
PK	5.862G	56.91	68.20	-11.29	6.91	3	Horizontal	224	1.32	-	50.00	31.73	9.45	34.27
PK	5.8274G	104.20	Inf	-Inf	7.46	3	Horizontal	224	1.32	-	96.74	32.21	9.54	34.29
PK	6.0254G	58.06	68.20	-10.14	7.89	3	Horizontal	224	1.32	-	50.17	32.50	9.70	34.31

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

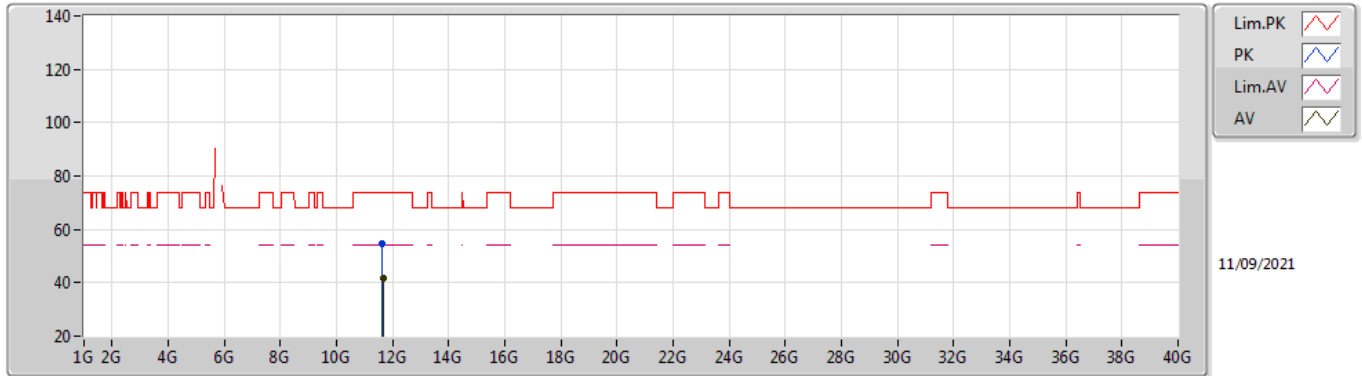
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6552G	41.49	54.00	-12.51	18.15	3	Vertical	53	1.50	-	23.34	39.47	12.91	34.23
PK	11.65064G	54.74	74.00	-19.26	18.17	3	Vertical	53	1.50	-	36.57	39.50	12.90	34.23

802.11ax HEW20-BF_Nss1,(MCS0)_4TX

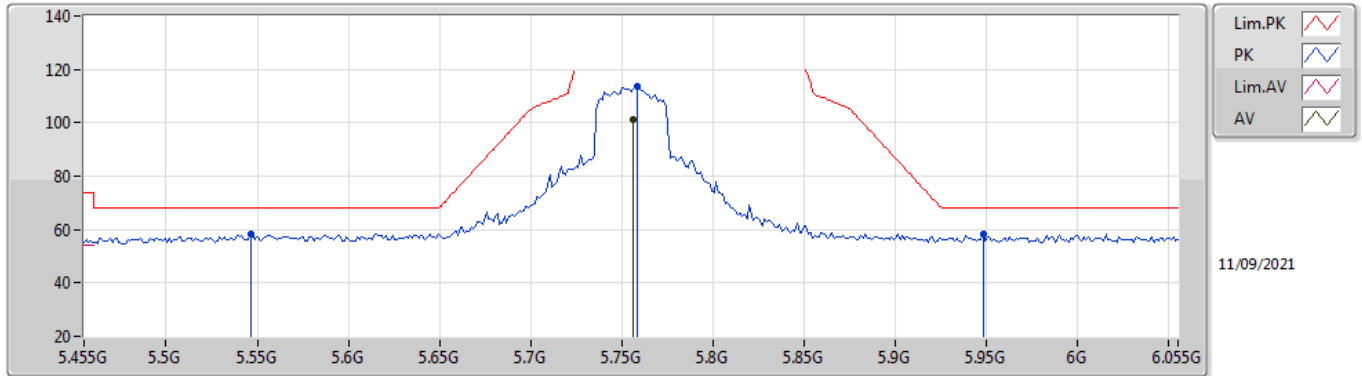
5825MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.6578G	41.50	54.00	-12.50	18.12	3	Horizontal	334	1.50	-	23.38	39.45	12.91	34.24
PK	11.64648G	54.73	74.00	-19.27	18.19	3	Horizontal	334	1.50	-	36.54	39.52	12.90	34.23

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

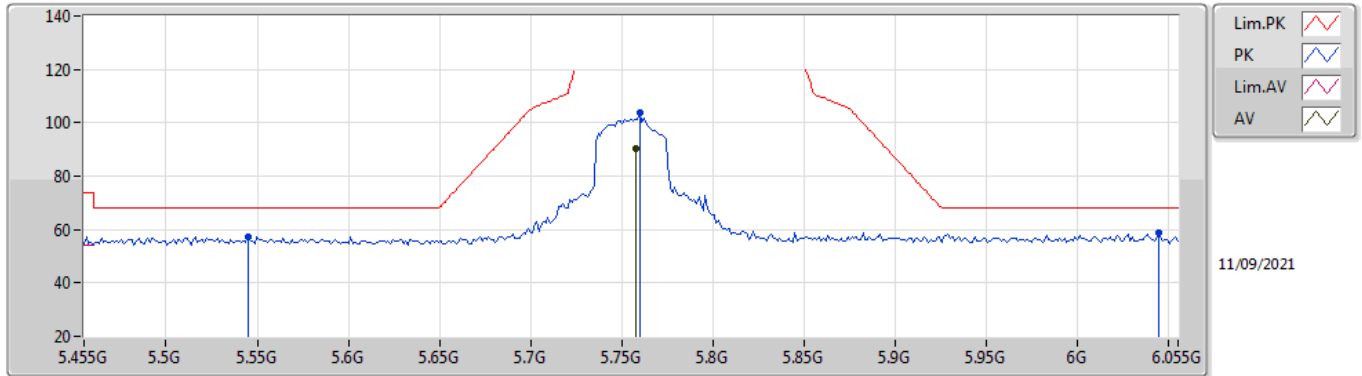
5755MHz_TX



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	5.7562G	101.28	Inf	-Inf	7.23	3	Vertical	52	1.53	-	94.05	32.01	9.51	34.29
PK	5.5462G	58.40	68.20	-9.80	6.96	3	Vertical	52	1.53	-	51.44	31.80	9.42	34.26
PK	5.7586G	113.39	Inf	-Inf	7.24	3	Vertical	52	1.53	-	106.15	32.02	9.51	34.29
PK	5.9482G	58.09	68.20	-10.11	7.84	3	Vertical	52	1.53	-	50.25	32.50	9.64	34.30

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

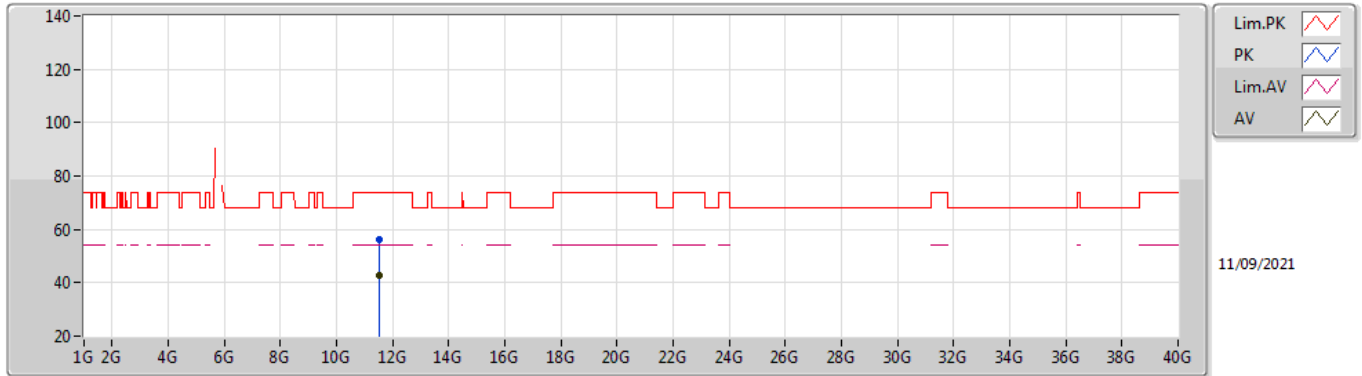
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7574G	90.38	Inf	-Inf	7.23	3	Horizontal	222	1.44	-	83.15	32.01	9.51	34.29
PK	5.545G	57.35	68.20	-10.85	6.96	3	Horizontal	222	1.44	-	50.39	31.80	9.42	34.26
PK	5.7598G	103.58	Inf	-Inf	7.24	3	Horizontal	222	1.44	-	96.34	32.02	9.51	34.29
PK	6.0442G	58.94	68.20	-9.26	7.91	3	Horizontal	222	1.44	-	51.03	32.50	9.72	34.31

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

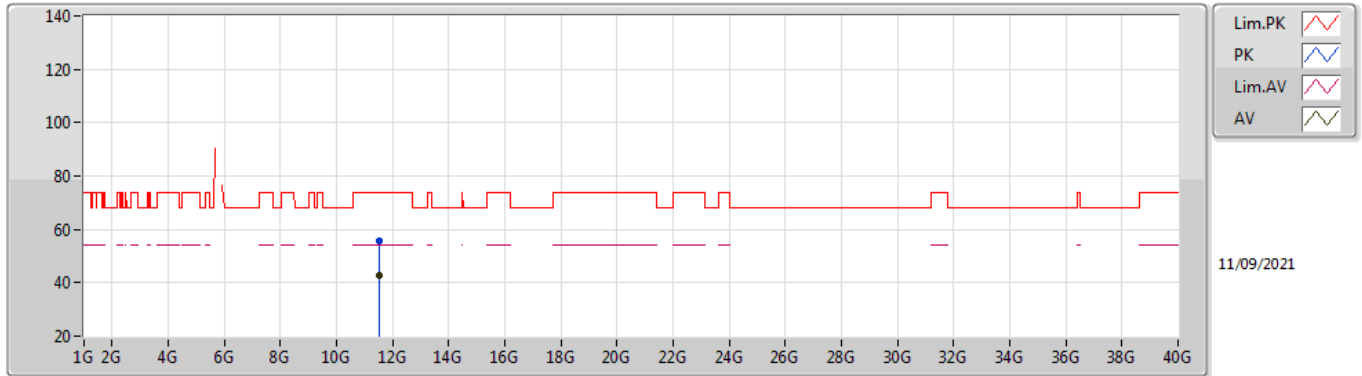
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.51336G	42.62	54.00	-11.38	18.74	3	Vertical	135	1.50	-	23.88	40.06	12.85	34.17
PK	11.51224G	56.18	74.00	-17.82	18.74	3	Vertical	135	1.50	-	37.44	40.06	12.85	34.17

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

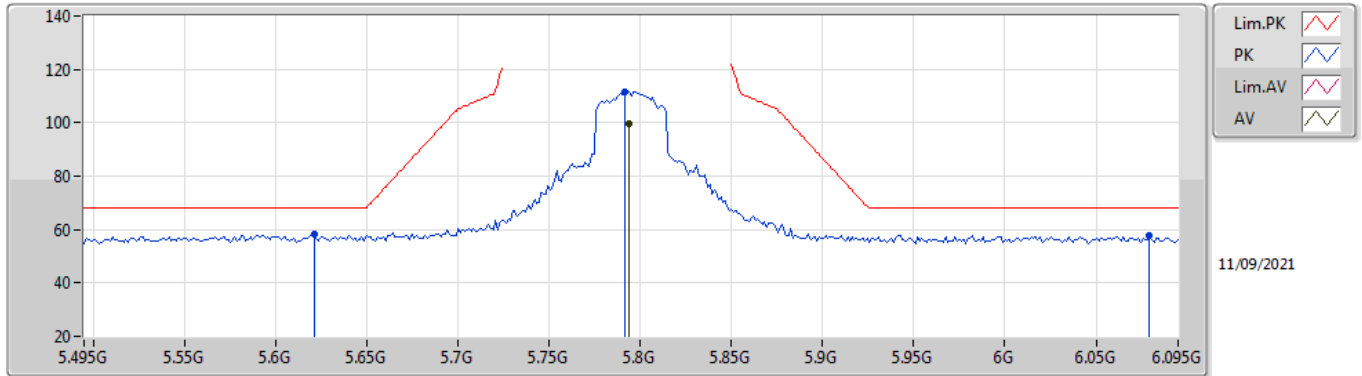
5755MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.52584G	42.63	54.00	-11.37	18.70	3	Horizontal	68	2.68	-	23.93	40.02	12.85	34.17
PK	11.50832G	55.69	74.00	-18.31	18.76	3	Horizontal	68	2.68	-	36.93	40.08	12.84	34.16

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

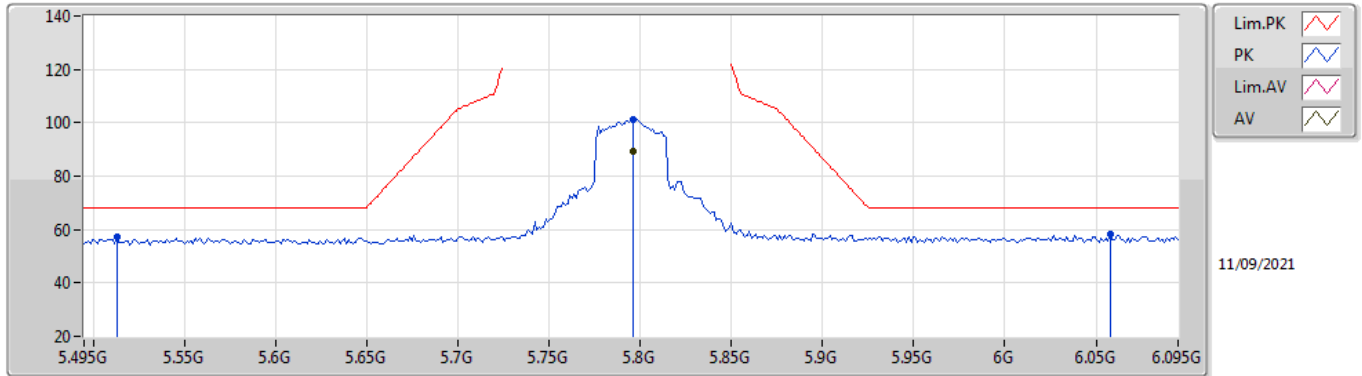
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7938G	99.71	Inf	-Inf	7.32	3	Vertical	74	1.50	-	92.39	32.09	9.52	34.29
PK	5.621G	58.21	68.20	-9.99	6.86	3	Vertical	74	1.50	-	51.35	31.66	9.47	34.27
PK	5.7914G	111.66	Inf	-Inf	7.31	3	Vertical	74	1.50	-	104.35	32.08	9.52	34.29
PK	6.0794G	57.85	68.20	-10.35	7.86	3	Vertical	74	1.50	-	49.99	32.44	9.74	34.32

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

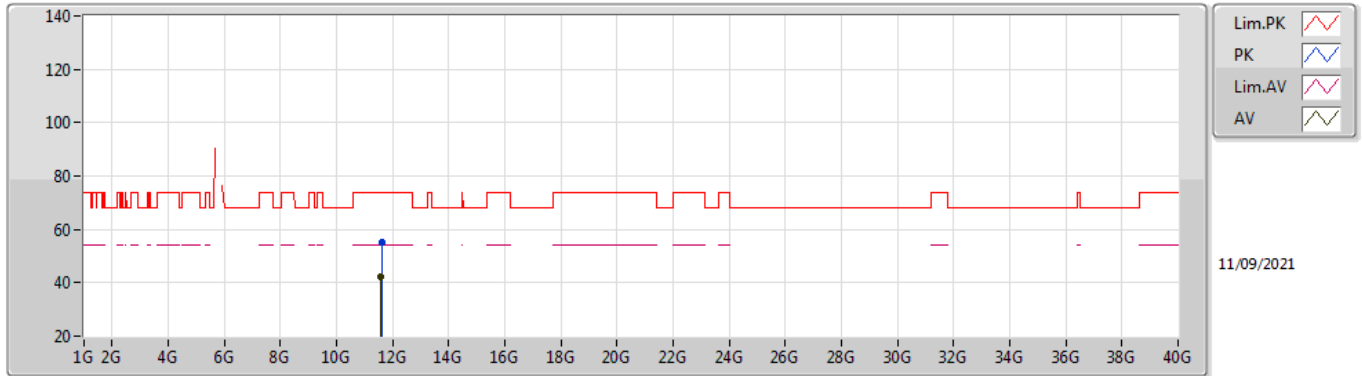
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	5.7962G	89.46	Inf	-Inf	7.32	3	Horizontal	223	1.35	-	82.14	32.09	9.52	34.29
PK	5.513G	57.16	68.20	-11.04	6.93	3	Horizontal	223	1.35	-	50.23	31.80	9.39	34.26
PK	5.7962G	101.32	Inf	-Inf	7.32	3	Horizontal	223	1.35	-	94.00	32.09	9.52	34.29
PK	6.0578G	58.41	68.20	-9.79	7.90	3	Horizontal	223	1.35	-	50.51	32.48	9.73	34.31

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

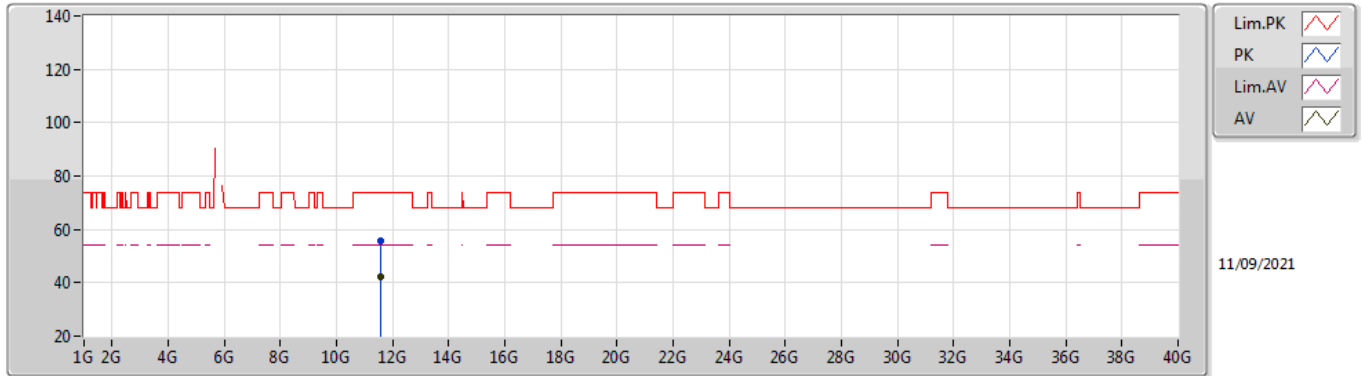
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57408G	42.27	54.00	-11.73	18.55	3	Vertical	279	1.50	-	23.72	39.88	12.87	34.20
PK	11.60984G	55.21	74.00	-18.79	18.42	3	Vertical	279	1.50	-	36.79	39.74	12.89	34.21

802.11ax HEW40-BF_Nss1,(MCS0)_4TX

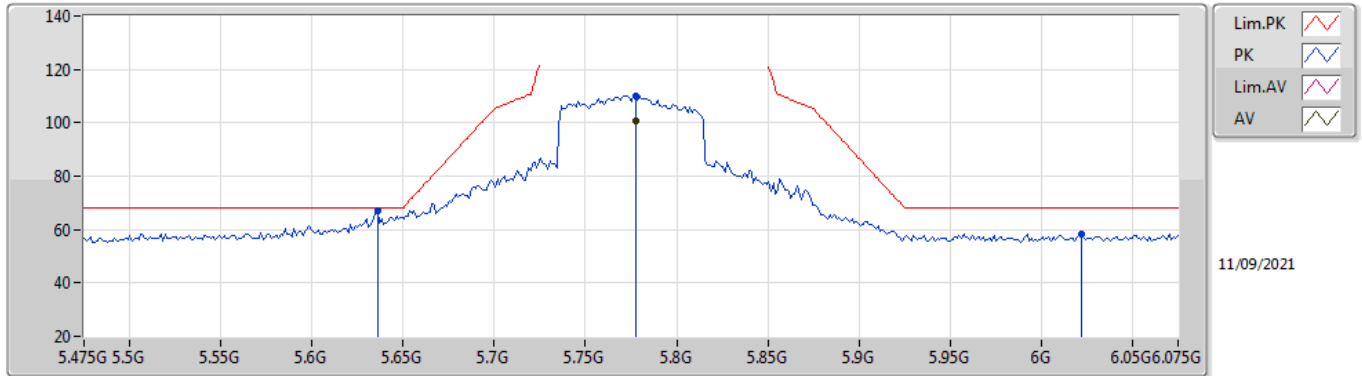
5795MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.57176G	42.22	54.00	-11.78	18.56	3	Horizontal	322	1.50	-	23.66	39.88	12.87	34.19
PK	11.58016G	55.61	74.00	-18.39	18.53	3	Horizontal	322	1.50	-	37.08	39.86	12.87	34.20

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

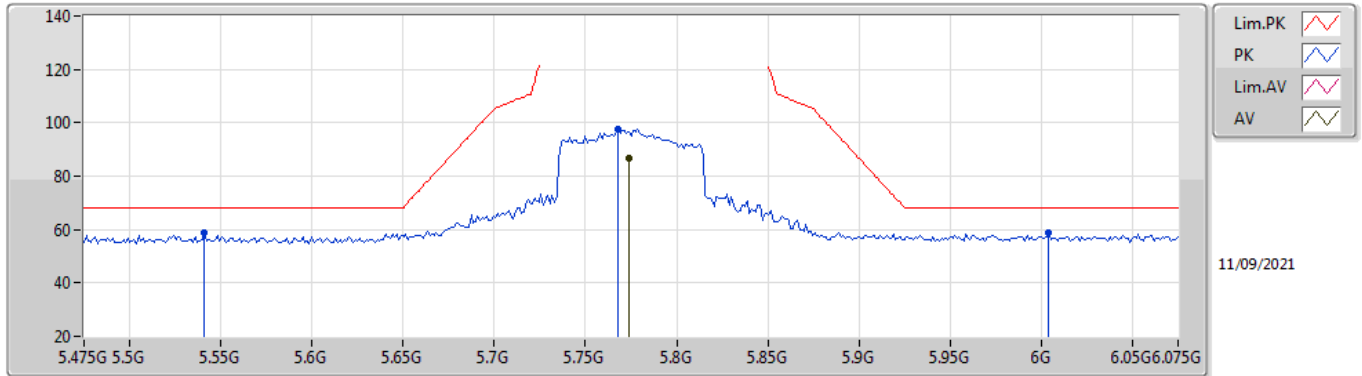
5775MHz_TX



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	5.7774G	100.57	Inf	-Inf	7.27	3	Vertical	48	1.46	-	93.30	32.05	9.51	34.29
PK	5.6358G	66.98	68.20	-1.22	6.83	3	Vertical	48	1.46	-	60.15	31.63	9.47	34.27
PK	5.7774G	110.17	Inf	-Inf	7.27	3	Vertical	48	1.46	-	102.90	32.05	9.51	34.29
PK	6.0222G	58.25	68.20	-9.95	7.89	3	Vertical	48	1.46	-	50.36	32.50	9.70	34.31

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

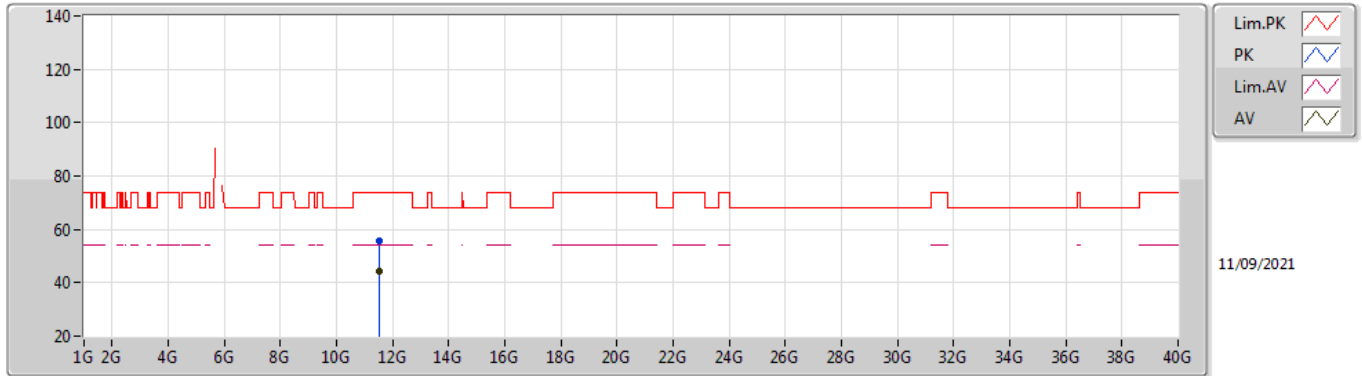
5775MHz_TX



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	5.7738G	86.82	Inf	-Inf	7.27	3	Horizontal	222	1.50	-	79.55	32.05	9.51	34.29
PK	5.541G	58.76	68.20	-9.44	6.95	3	Horizontal	222	1.50	-	51.81	31.80	9.41	34.26
PK	5.7678G	97.38	Inf	-Inf	7.26	3	Horizontal	222	1.50	-	90.12	32.04	9.51	34.29
PK	6.0042G	58.63	68.20	-9.57	7.87	3	Horizontal	222	1.50	-	50.76	32.50	9.68	34.31

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

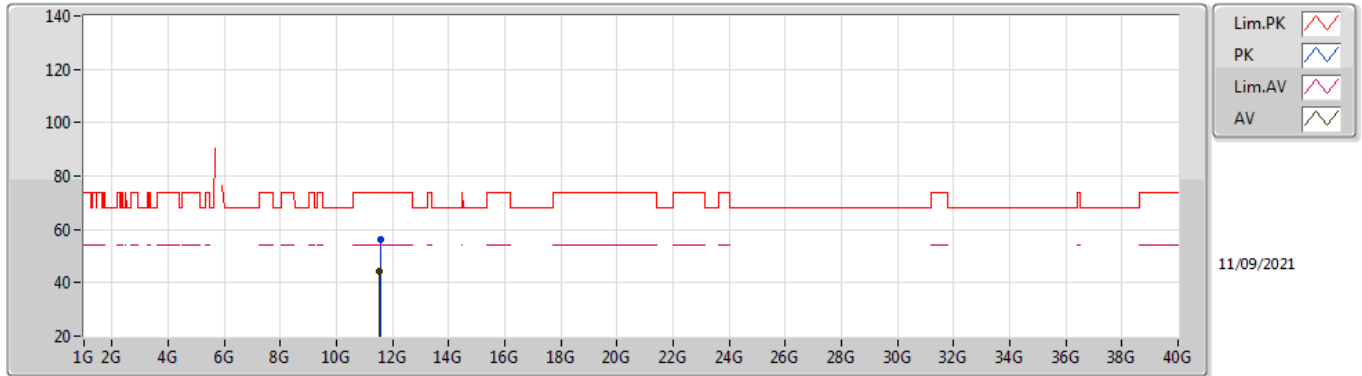
5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5448G	44.32	54.00	-9.68	18.65	3	Vertical	13	1.50	-	25.67	39.97	12.86	34.18
PK	11.5416G	55.90	74.00	-18.10	18.66	3	Vertical	13	1.50	-	37.24	39.98	12.86	34.18

802.11ax HEW80-BF_Nss1,(MCS0)_4TX

5775MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	11.5364G	44.19	54.00	-9.81	18.67	3	Horizontal	187	2.51	-	25.52	39.99	12.86	34.18
PK	11.56576G	56.16	74.00	-17.84	18.58	3	Horizontal	187	2.51	-	37.58	39.90	12.87	34.19