

FCC Radio Test Report

FCC ID : TVE-241102
Contains FCC ID : RI7FN990A28HP
Equipment : Secured Network Extension Device
Brand Name : FORTINET
Model Name : FortiExtenderVehicle 511Gxxxxxxxxxx,
FORTIEXTENDERVEHICLE-511Gxxxxxxxxxx,
FEV-511Gxxxxxxxxxx
(where "x" can be used as "A-Z", or "0-9", or "-", or blank for
software changes or marketing purposes only)
Applicant : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Manufacturer : Fortinet, Inc.
909 Kifer Road, Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.407

The product was received on Nov. 26, 2024, and testing was started from Dec. 22, 2024 and completed on Apr. 02, 2025. 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: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	12
1.3 Testing Location Information	12
1.4 Measurement Uncertainty	12
2 TEST CONFIGURATION OF EUT.....	13
2.1 Test Channel Mode	13
2.2 The Worst Case Measurement Configuration.....	19
2.3 Accessories	20
2.4 Support Equipment.....	20
2.5 Test Setup Diagram	21
3 TRANSMITTER TEST RESULT	24
3.1 AC Power-line Conducted Emissions	24
3.2 Emission Bandwidth	26
3.3 Maximum Conducted Output Power	27
3.4 Peak Power Spectral Density.....	29
3.5 Unwanted Emissions.....	31
4 TEST EQUIPMENT AND CALIBRATION DATA	35
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS	
APPENDIX F. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	

[illegible]

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Barry Hsiao

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [11]
Straddle 5720		5720	144 [1]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [5]
Straddle 5710		5710	142 [1]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5610	106-122 [2]
Straddle 5690		5690	138 [1]
5725-5850		5775	155 [1]

Non-Beamforming Indoor

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Non-Beamforming_Outdoor

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	2TX
5.25-5.35GHz	802.11a	20	2TX
5.47-5.725GHz	802.11a	20	2TX
5.725-5.85GHz	802.11a	20	2TX
5.15-5.25GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.725-5.85GHz	802.11ax HEW20	20	2TX
5.15-5.25GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.725-5.85GHz	802.11ax HEW40	40	2TX
5.15-5.25GHz	802.11ax HEW80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX
5.725-5.85GHz	802.11ax HEW80	80	2TX

Beamforming_Indoor

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Beamforming_Outdoor

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11ax HEW20-BF	20	2TX
5.25-5.35GHz	802.11ax HEW20-BF	20	2TX
5.47-5.725GHz	802.11ax HEW20-BF	20	2TX
5.725-5.85GHz	802.11ax HEW20-BF	20	2TX
5.15-5.25GHz	802.11ax HEW40-BF	40	2TX
5.25-5.35GHz	802.11ax HEW40-BF	40	2TX
5.47-5.725GHz	802.11ax HEW40-BF	40	2TX
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	802.11ax HEW80-BF	80	2TX
5.25-5.35GHz	802.11ax HEW80-BF	80	2TX
5.47-5.725GHz	802.11ax HEW80-BF	80	2TX
5.725-5.85GHz	802.11ax HEW80-BF	80	2TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40, HEW80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Evaluated HEW20/HEW40/HEW80 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	TAOGLAS	MA1505.AK.001	MIMO	SMA	WWAN
					GPS
2	WHA YU	ANT DIPOLE 2/5/6GHz C496-510189-A BLACK	Dipole	Reverse SMA	Radio 2_2.4G+ Radio 1_5G
3	WHA YU	ANT DIPOLE 2/5/6GHz C496-510189-A BLACK	Dipole	Reverse SMA	Radio 2_2.4G+ Radio 1_5G
4	WHA YU	ANT DIPOLE 2GHz C496-510188-A BLACK	Dipole	Reverse SMA	BT

Note : Antenna 1 Gain See note 2.

Ant.	Port	Gain (dBi)			
		2.4G	5G	BT	GPS
1	1	-	-	-	4.54
2	1	2.08	2.41	-	-
3	2	2.08	2.41	-	-
4	1	-	-	1.8	-

Note 1: The EUT has four antennas.

For WWAN function:

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

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX) < **Radio 2** >

Ant. 2 (port 1) and Ant. 3 (port 2) could receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode(2TX/2RX) < **Radio 1** >

Ant. 2 (port 1) and Ant. 3 (port 2) could receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 4 could transmit/receive.

**Note 2**

Operating Band	Freq. (MHz)	Antenna Gain			
		ANT1(Main0)	ANT1(MIMO1)	ANT1(Main2)	ANT1(MIMO3)
☒ WCDMA Band II	1850 - 1910	1.7			
☒ WCDMA Band IV	1710 - 1755	3.8			
☒ WCDMA Band V	824 - 849	1.6			
☒ LTE Band 2	1850 - 1910	1.7			
☒ LTE Band 4	1710 - 1755	3.8			
☒ LTE Band 5	824 - 849	1.6			
☒ LTE Band 7	2500 - 2570	1.9			
☒ LTE Band 12	699 - 716	2.4			
☒ LTE Band 13	777 - 787	1.2			
☒ LTE Band 14	788 - 798	-0.3			
☒ LTE Band 17	704 - 716	2.4			
☒ LTE Band 25	1850 - 1915	1.7			
☒ LTE Band 26	814 - 849	0.3			
☒ LTE Band 30	2305 - 2315	1			
☒ LTE Band 38	2570 - 2620	0.8			
☒ LTE Band 41	2496 - 2690	1.9			
☒ LTE Band 42	3450 - 3550 3550 - 3600	0.4			
☒ LTE Band 43	3600 - 3700	-0.4			
☒ LTE Band 48	3550 - 3700	0.4			
☒ LTE Band 66	1710 - 1780	3.8			
☒ LTE Band 71	663 - 698	1.9			
☒ 5G Band n2	1850 - 1910	1.7			
☒ 5G Band n5	824- 849	1.6			
☒ 5G Band n7	2500 - 2570	1.9			
☒ 5G Band n12	699 - 716	2.4			
☒ 5G Band n13	777 - 787	1.2			
☒ 5G Band n14	788 - 798	-0.3			
☒ 5G Band n25	1850 - 1915	1.7			
☒ 5G Band n26	814 - 849	0.3			
☒ 5G Band n30	2305 - 2315	1			
☒ 5G Band n38	2570 - 2620	0.8			
☒ 5G Band n41	2496 - 2690	1.9			
☒ 5G Band n48	3550 - 3700	0.4			
☒ 5G Band n66	1710 - 1780	3.8			
☒ 5G Band n71	663 - 698	1.9			
☒ 5G Band n77	3450 - 3980	0.9			
☒ 5G Band n78	3450 - 3800	0.9			

Note 3: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ch}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ch}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ch}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / Battery		
EUT Function	☒ Outdoor AP	☒ Indoor AP	
	☐ Fixed P2P AP	☐ Client	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
TPC Function	☒ With TPC Function	☐ Without TPC Function	
Weather Band	☒ With 5600~5650MHz	☐ Without 5600~5650MHz	
Resource Unit	☒ Full RU	☐ Partial RU	
	☐ MRU(static preamble puncturing)	☐ MRU(dynamic preamble puncturing)	
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_Indoor

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_2TX	0.962	0.17	1.981m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.799	0.97	5.45m	200
802.11ax HEW40_Nss1,(MCS0)_2TX	0.797	0.99	5.45m	200
802.11ax HEW80_Nss1,(MCS0)_2TX	0.798	0.98	5.45m	200

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

Non-Beamforming_Outdoor

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_2TX	0.962	0.17	1.981m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.799	0.97	5.45m	200
802.11ax HEW40_Nss1,(MCS0)_2TX	0.797	0.99	5.45m	200
802.11ax HEW80_Nss1,(MCS0)_2TX	0.798	0.98	5.45m	200

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

Beamforming_Indoor

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.799	0.97	5.45m	200
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.797	0.99	5.45m	200
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.798	0.98	5.45m	200

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

Beamforming_Outdoor

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.799	0.97	5.45m	200
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.797	0.99	5.45m	200
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.798	0.98	5.45m	200

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
FortiExtenderVehicle 511Gxxxxxxxxxx, FORTIEXTENDERVEHICLE-511Gxxxxxxxxxx, FEV-511Gxxxxxxxxxx (where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)	All the models are identical, the different model served as marketing strategy.

From the above models, model: FEV-511G was selected as representative model for the test and its data was recorded in this report.

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	Simon Cheng	21.7~23.5°C / 53~56%	02/Apr/2025
RF Conducted	TH07-HY	Raven Chien	22.8~23.2°C / 52~56%	28/Dec/2024~08/Jan/2025
Radiated (Co-location)	03CH02-HY	Daniel Lin	20.2~21.1°C / 51~53%	31/Dec/2024
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated_ Below 1GHz	03CH24-HY	Jack Tang	21.5~21.6°C / 51~52%	27/Dec/2024, 02/Apr/2025
Radiated_ Above 1GHz	03CH24-HY	Billy Wang	22.2~23.4°C / 50~52%	22/Dec/2024~07/Feb/2025

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
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 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

Test Software Version	qdart_conn.win.1.0_installer_00099
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Non-Beamforming_Indoor

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	16
5200MHz	18.5
5240MHz	19
5260MHz	19
5300MHz	19
5320MHz	17.5
5500MHz	18.5
5580MHz	19
5700MHz	16
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	19
5785MHz	19
5825MHz	19
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	16.5
5200MHz	18.5
5240MHz	19
5260MHz	19
5300MHz	19
5320MHz	17.5
5500MHz	19
5580MHz	19
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	19
5785MHz	19



Mode	Power Setting
5825MHz	19
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	14.5
5230MHz	18.5
5270MHz	19
5310MHz	16
5510MHz	16.5
5550MHz	19
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
5755MHz	19
5795MHz	19
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	14.5
5290MHz	15.5
5530MHz	15.5
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	18
5690MHz Straddle 5.725-5.85GHz	18
5775MHz	17

**Non-Beamforming_Outdoor**

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	16
5200MHz	18
5240MHz	18.5
5260MHz	19
5300MHz	19
5320MHz	17.5
5500MHz	18.5
5580MHz	19
5700MHz	16
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	19
5785MHz	19
5825MHz	19
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	16.5
5200MHz	18
5240MHz	19
5260MHz	19
5300MHz	19
5320MHz	17.5
5500MHz	19
5580MHz	19
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	19
5785MHz	19
5825MHz	19
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	14.5
5230MHz	18
5270MHz	19
5310MHz	16



Mode	Power Setting
5510MHz	16.5
5550MHz	19
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
5755MHz	19
5795MHz	19
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	14.5
5290MHz	15.5
5530MHz	15.5
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	18
5690MHz Straddle 5.725-5.85GHz	18
5775MHz	17

**Beamforming_Indoor**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	16.5
5200MHz	18.5
5240MHz	19
5260MHz	19
5300MHz	19
5320MHz	17.5
5500MHz	19
5580MHz	19
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	19
5785MHz	19
5825MHz	19
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	14.5
5230MHz	18.5
5270MHz	19
5310MHz	16
5510MHz	16.5
5550MHz	19
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
5755MHz	19
5795MHz	19
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	14.5
5290MHz	15.5
5530MHz	15.5
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	18
5690MHz Straddle 5.725-5.85GHz	18
5775MHz	17

**Beamforming_Outdoor**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	16.5
5200MHz	18
5240MHz	19
5260MHz	19
5300MHz	19
5320MHz	17.5
5500MHz	19
5580MHz	19
5700MHz	15.5
5720MHz Straddle 5.47-5.725GHz	19
5720MHz Straddle 5.725-5.85GHz	19
5745MHz	19
5785MHz	19
5825MHz	19
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	14.5
5230MHz	18
5270MHz	19
5310MHz	16
5510MHz	16.5
5550MHz	19
5670MHz	16
5710MHz Straddle 5.47-5.725GHz	18.5
5710MHz Straddle 5.725-5.85GHz	18.5
5755MHz	19
5795MHz	19
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	14.5
5290MHz	15.5
5530MHz	15.5
5610MHz	17
5690MHz Straddle 5.47-5.725GHz	18
5690MHz Straddle 5.725-5.85GHz	18
5775MHz	17

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	Adapter 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	Car charger mode		
2	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated measurement
Operating Mode	CTX
1	Radio 1_5G + Radio 2_2.4G+ Bluetooth + WWAN
Refer to Sporton Test Report No.: FA4N2608 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter	Brand Name	ASIAN	Model Name	WA-36W12R
	Power Rating	I/P: 100- 240Vac 50-60Hz, 0.9A Max, O/P: 12Vdc, 3.0A, 36.0W		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
Vehicle Power Adapter (Car Charger)	Brand Name	HUAI YANG	Model Name	FEVCBL-2M3-C
	Power Rating	I/P:12 Vdc, 2.0 A or 24 Vdc,1.0 A, O/P:12 Vdc, 2.0 A or 24 Vdc,1.0 A		
	Power Cord	2.3meter, non-shielded cable, w/o ferrite core		
Bluetooth Antenna *1	Brand Name	WHA YU	Model Name	ANT DIPOLE 2GHz C496-510188-A BLACK
Wi-Fi Antenna *2	Brand Name	WHA YU	Model Name	ANT DIPOLE 2/5/6GHz C496-510189-A BLACK

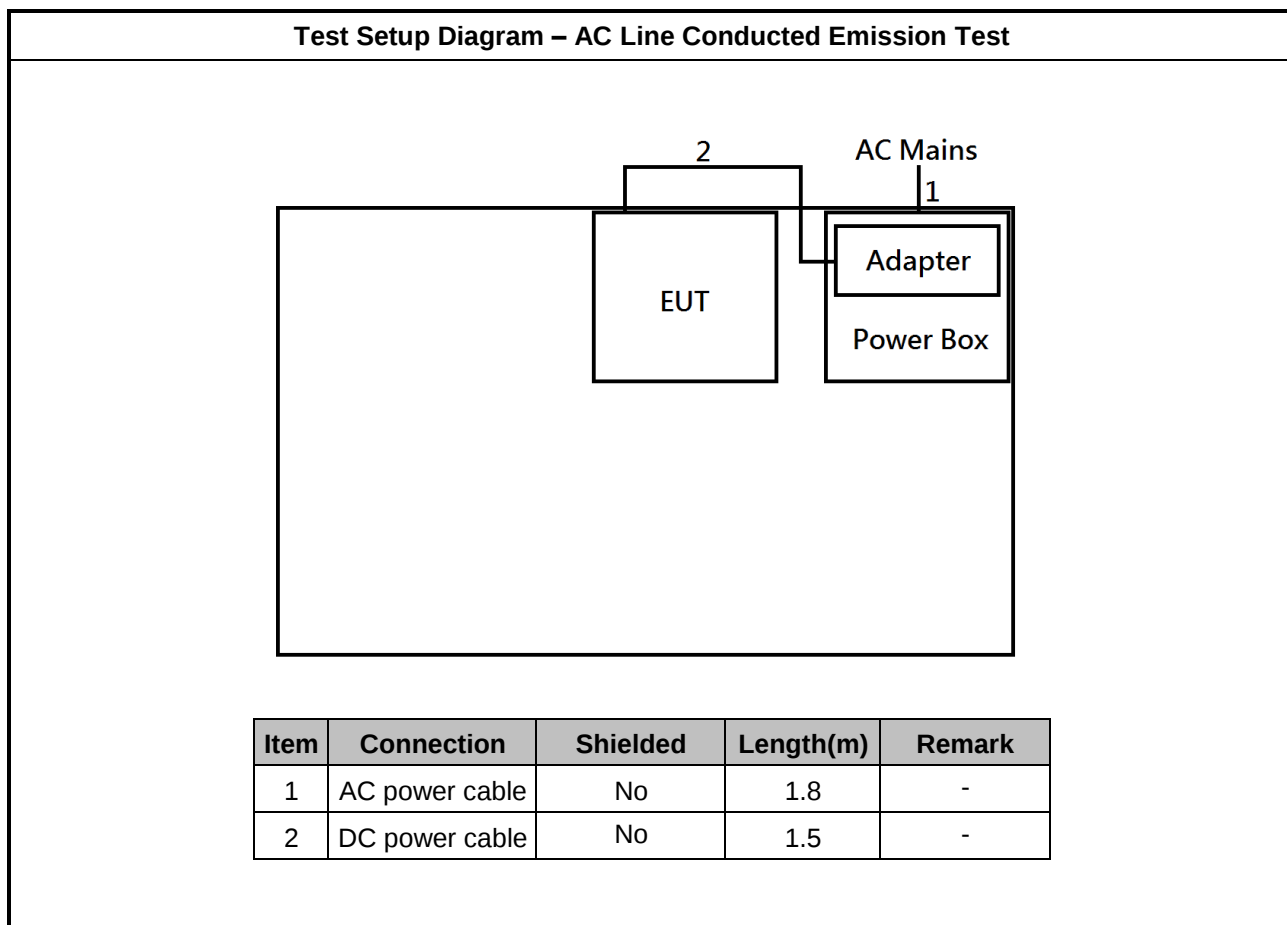
Reminder: Regarding to more detail and other information, please refer to user manual.

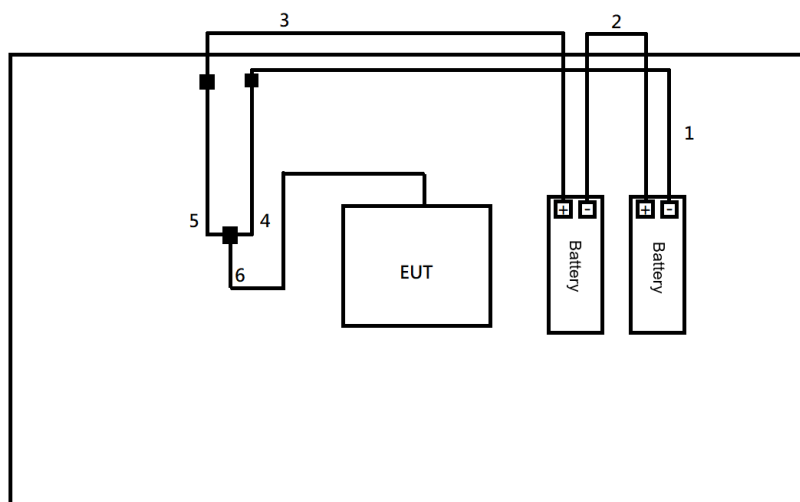
2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-
4	DC Power cable	MiSUMi	WTN1223-BLACK	-	-
5	DC Power cable	MiSUMi	WTN1223-RED	-	-
6	Car Charger Switch	Sporton	Sporton	-	Provided by Sporton

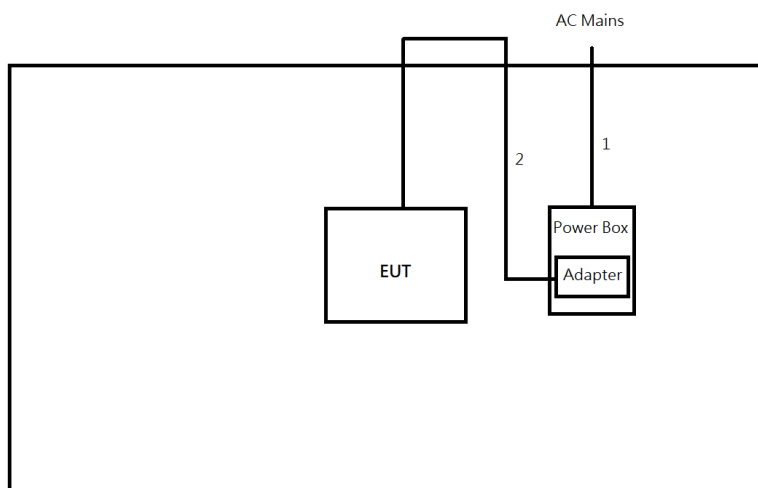
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Battery	YUASA	145G51	-	-
2	Battery	YUASA	115F51	-	-
3	DC Power cable*2	MiSUMi	WTN1223-BLACK	-	-
4	DC Power cable	MiSUMi	WTN1223-RED	-	-
5	Car Charger Switch	Sporton	Sporton	-	Provided by Sporton

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test_Car charger mode


Item	Connection	Shielded	Length(m)	Remark
1	DC Power cable	No	1.0	-
2	DC Power cable	No	1.0	-
3	DC Power cable	No	1.0	-
4	DC Power cable(-)	No	0.1	-
5	DC Power cable(+)	No	0.1	-
6	DC Power cable	No	2.3	-

Test Setup Diagram - Radiated Test_Adapter mode


Item	Connection	Shielded	Length(m)	Remark
1	AC power cable	No	1.8	-
2	DC power cable	No	1.5	-

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

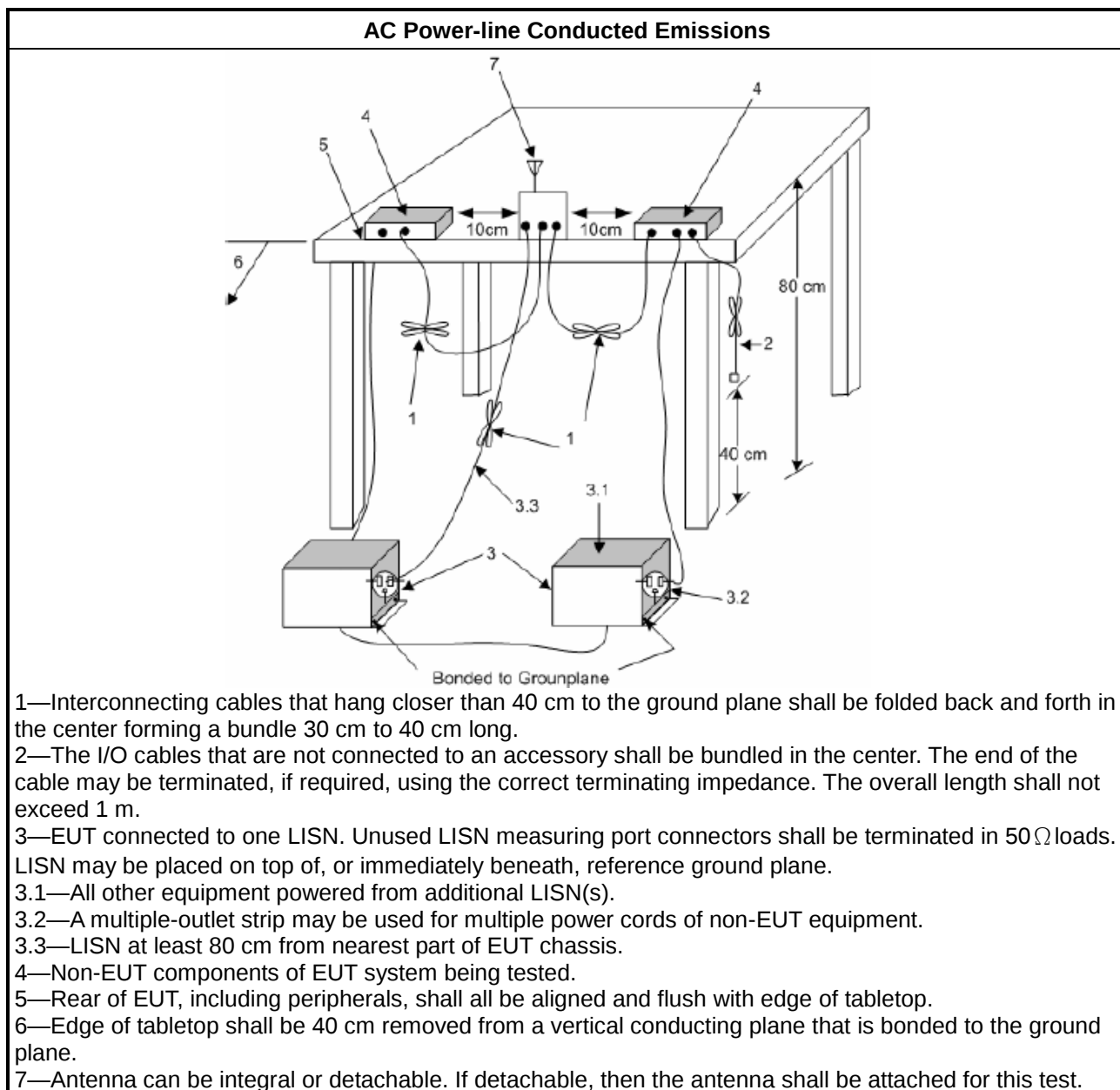
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

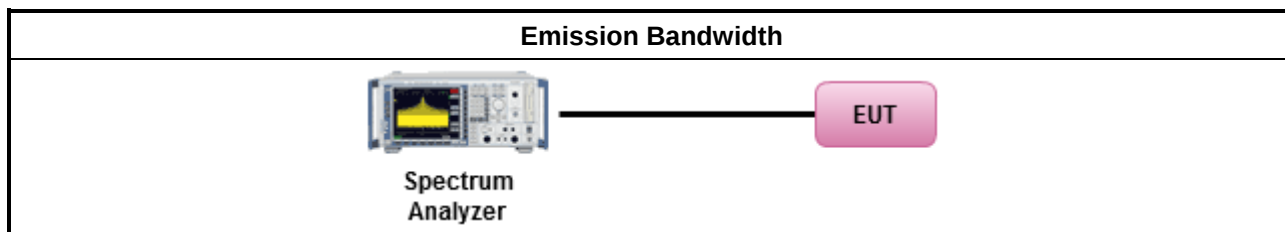
3.2.2 Measuring Instruments

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 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 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 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 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 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 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 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 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

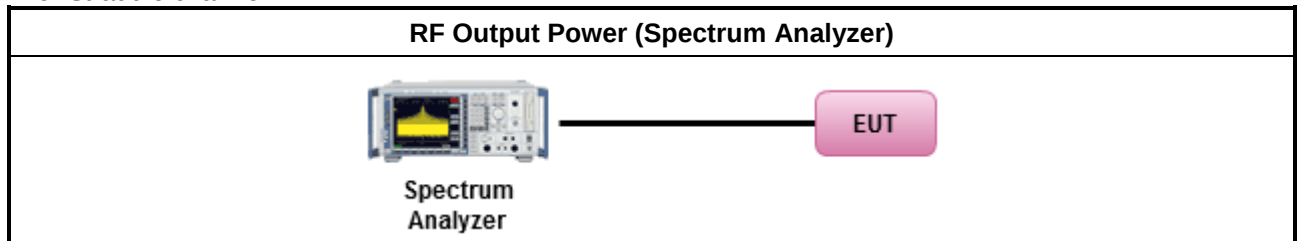
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

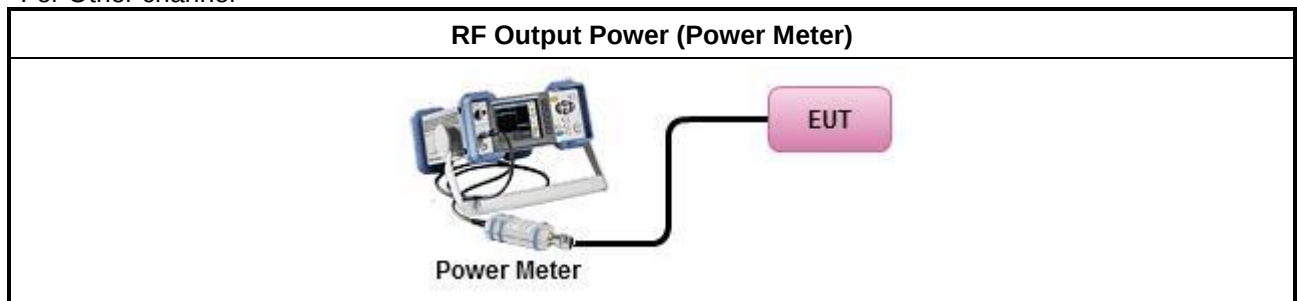
Test Method	
Maximum Conducted Output Power	
	Duty cycle $\geq 98\%$
☐	Refer as KDB 789033, clause E Method SA-2 (spectral trace averaging).
	Duty cycle $< 98\%$
☒	Refer as KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
☒	Refer as KDB 789033, clause E Method PM (using an RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.3.4 Test Setup

For Straddle channel



For Other channel



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 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 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 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.	

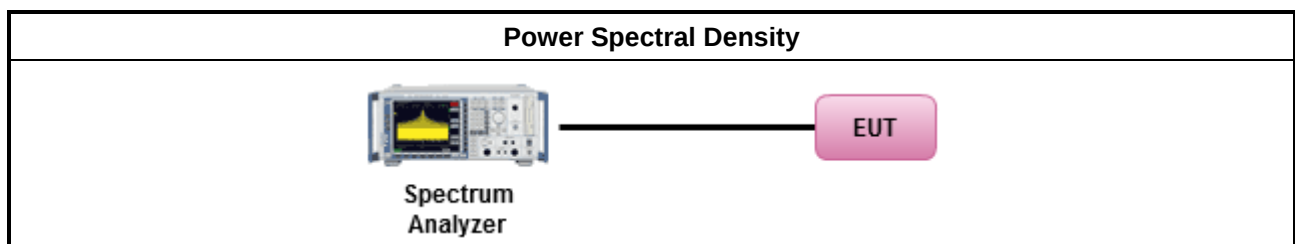
3.4.2 Measuring Instruments

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, F5) 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

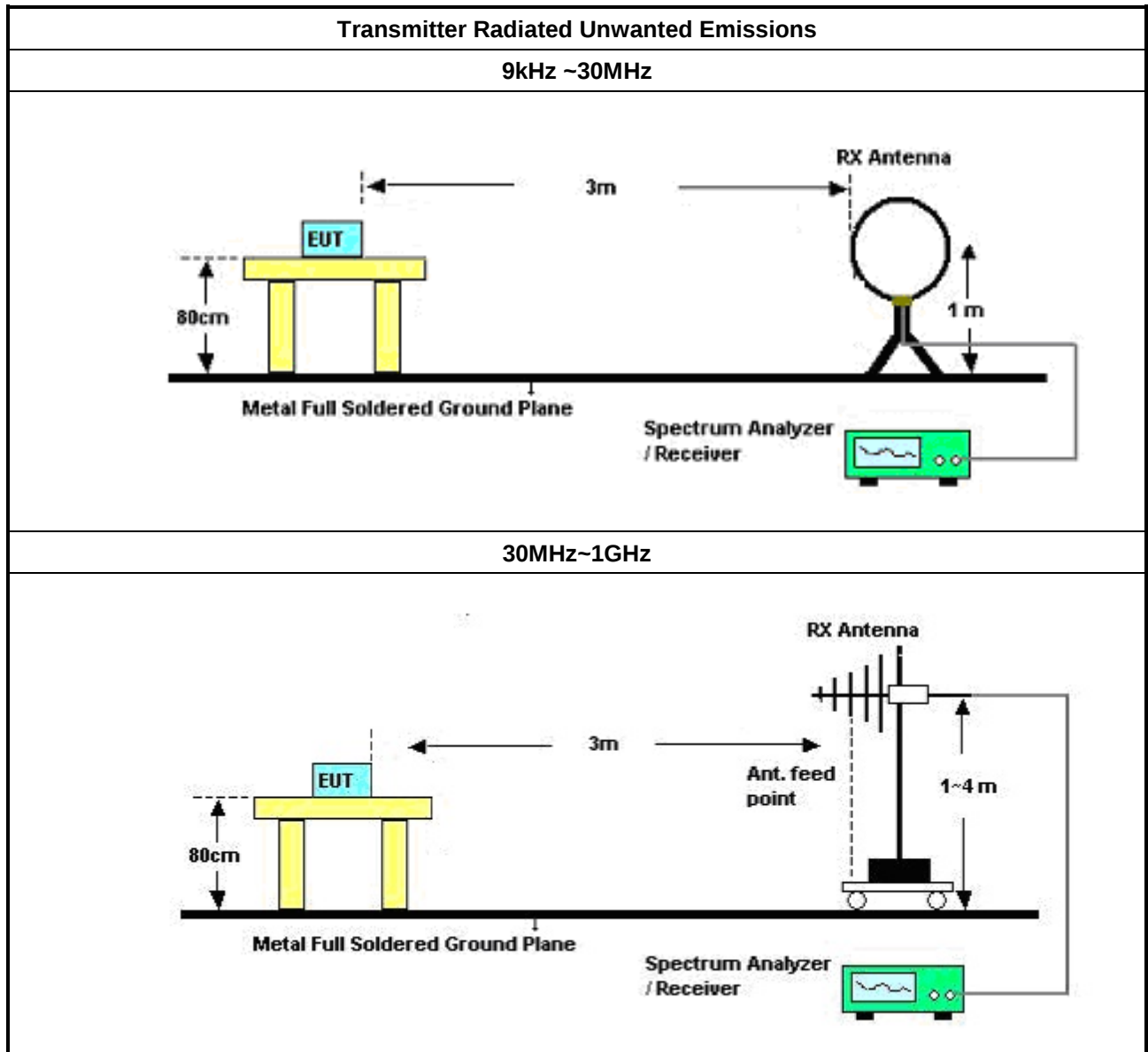
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above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

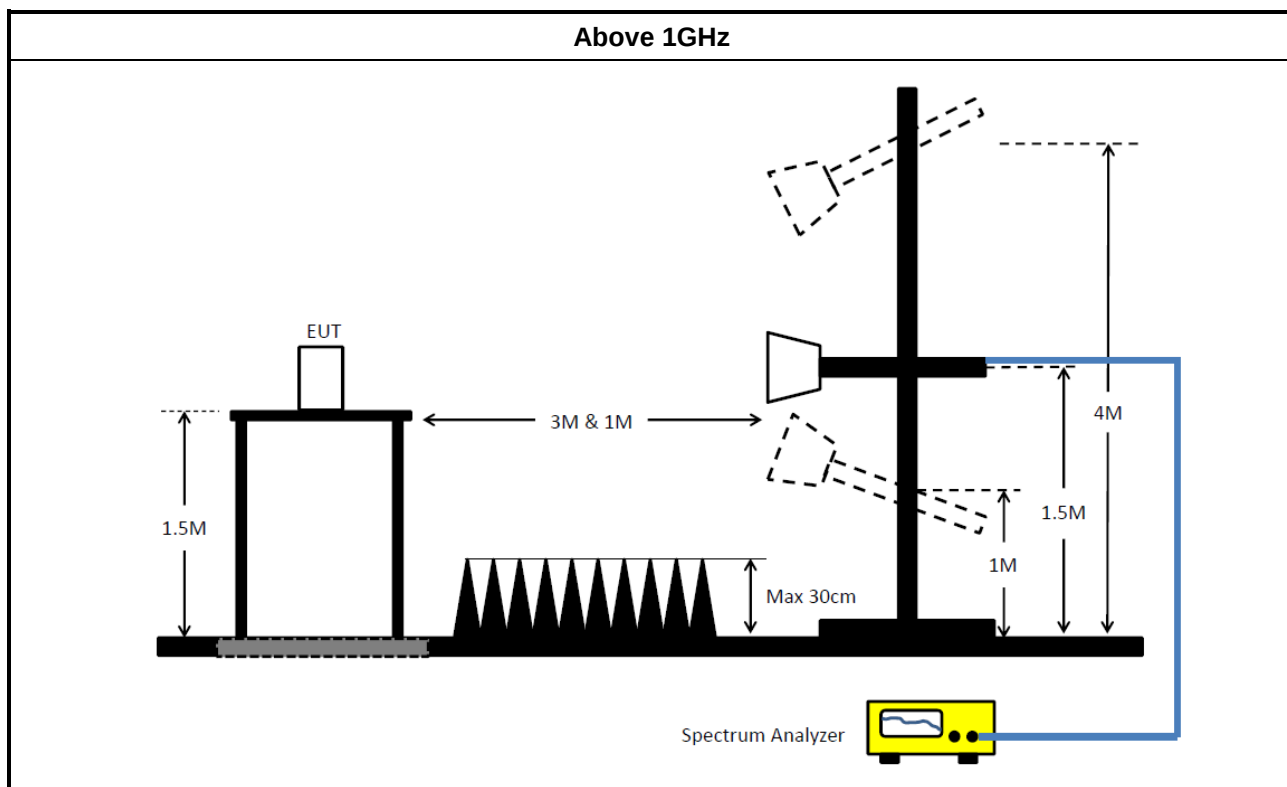
3.5.4 Measurement Results Calculation

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	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	11/Oct/2024	10/Oct/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	9kHz~40GHz	02/Feb/2024	01/Feb/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	2105003	300MHz~40GHz	13/Sep/2024	12/Sep/2025
Pulse Sensor	Anritsu	MA2411B	1911254	300MHz~40GHz	13/Sep/2024	12/Sep/2025
SENSE-15407_NII	Sporton	V5.11.21	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH24-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	30MHz~1GHz 3m	16/Aug/2024	15/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH24-HY	1GHz~18GHz 3m	30/Jul/2024	29/Jul/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101345	10Hz~44GHz	27/Aug/2024	26/Aug/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 6dB Attenuator	TESEQ / Woken	CBL 6112D / 00800N1D01N-06	35376 / 02	30MHz~1GHz	14/Apr/2024	13/Apr/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02744	1GHz~18GHz	15/Aug/2024	14/Aug/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	05/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	03CH24-cable-01	9kHz~40GHz	01/Oct/2024	30/Sep/2025
Pre-Amplifier	Agilent	8447D	2944A06292	30MHz~1GHz	18/Apr/2024	17/Apr/2025
Amplifier	EM	EM01G18G	060870	1GHz ~18GHz	12/Aug/2024	11/Aug/2025
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-NII	Sporton	V5.11.22	NA	NA	NA	NA

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	15/Feb/2024	14/Feb/2025
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

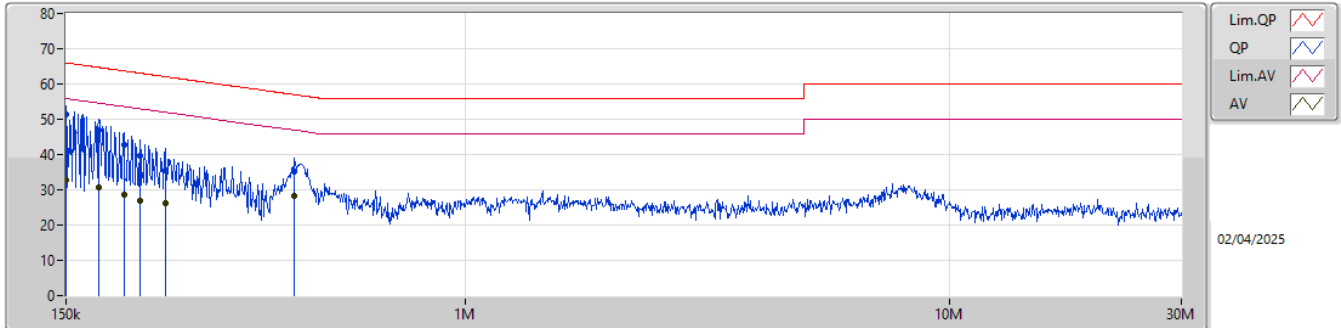
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	51.27	66.00	-14.73	Line

Result

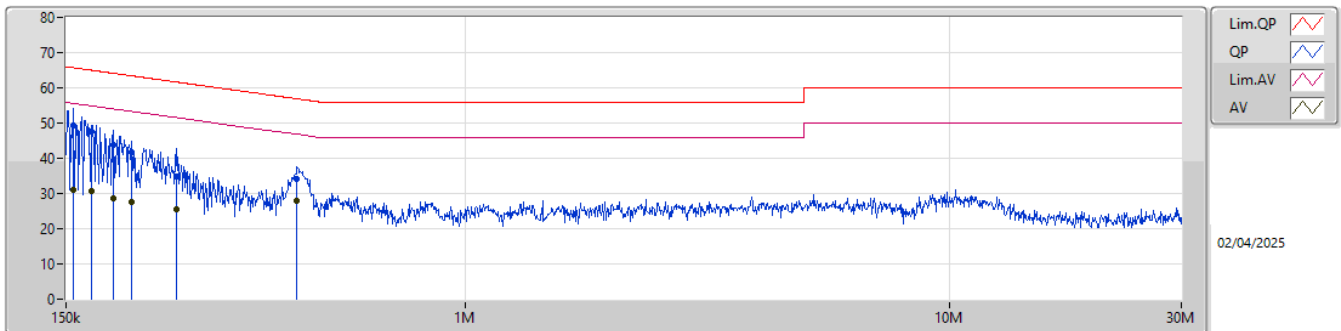
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	51.27	66.00	-14.73	Line
Mode 1	Pass	AV	150k	32.64	56.00	-23.36	Line
Mode 1	Pass	QP	175.269k	46.92	64.70	-17.78	Line
Mode 1	Pass	AV	175.269k	30.84	54.70	-23.86	Line
Mode 1	Pass	QP	197.568k	42.64	63.71	-21.07	Line
Mode 1	Pass	AV	197.568k	28.73	53.71	-24.98	Line
Mode 1	Pass	QP	213.137k	39.74	63.07	-23.33	Line
Mode 1	Pass	AV	213.137k	26.86	53.07	-26.21	Line
Mode 1	Pass	QP	240.253k	35.46	62.08	-26.62	Line
Mode 1	Pass	AV	240.253k	26.31	52.08	-25.77	Line
Mode 1	Pass	QP	444.284k	35.15	56.98	-21.83	Line
Mode 1	Pass	AV	444.284k	28.21	46.98	-18.77	Line
Mode 1	Pass	QP	155.487k	49.23	65.69	-16.46	Neutral
Mode 1	Pass	AV	155.487k	30.89	55.69	-24.80	Neutral
Mode 1	Pass	QP	169.084k	47.51	65.01	-17.50	Neutral
Mode 1	Pass	AV	169.084k	30.66	55.01	-24.35	Neutral
Mode 1	Pass	QP	187.577k	43.87	64.15	-20.28	Neutral
Mode 1	Pass	AV	187.577k	28.49	54.15	-25.66	Neutral
Mode 1	Pass	QP	204.796k	41.56	63.42	-21.86	Neutral
Mode 1	Pass	AV	204.796k	27.66	53.42	-25.76	Neutral
Mode 1	Pass	QP	253.051k	34.94	61.66	-26.72	Neutral
Mode 1	Pass	AV	253.051k	25.54	51.66	-26.12	Neutral
Mode 1	Pass	QP	449.637k	33.99	56.88	-22.89	Neutral
Mode 1	Pass	AV	449.637k	28.08	46.88	-18.80	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	150k	51.27	66.00	-14.73	19.55	Line	-	31.72	9.57	0.01	9.97						
AV	150k	32.64	56.00	-23.36	19.55	Line	-	13.09	9.57	0.01	9.97						
QP	175.269k	46.92	64.70	-17.78	20.22	Line	-	26.70	10.24	0.01	9.97						
AV	175.269k	30.84	54.70	-23.86	20.22	Line	-	10.62	10.24	0.01	9.97						
QP	197.568k	42.64	63.71	-21.07	19.96	Line	-	22.68	9.98	0.01	9.97						
AV	197.568k	28.73	53.71	-24.98	19.96	Line	-	8.77	9.98	0.01	9.97						
QP	213.137k	39.74	63.07	-23.33	19.84	Line	-	19.90	9.86	0.01	9.97						
AV	213.137k	26.86	53.07	-26.21	19.84	Line	-	7.02	9.86	0.01	9.97						
QP	240.253k	35.46	62.08	-26.62	19.69	Line	-	15.77	9.70	0.02	9.97						
AV	240.253k	26.31	52.08	-25.77	19.69	Line	-	6.62	9.70	0.02	9.97						
QP	444.284k	35.15	56.98	-21.83	20.04	Line	-	15.11	10.03	0.03	9.98						
AV	444.284k	28.21	46.98	-18.77	20.04	Line	-	8.17	10.03	0.03	9.98						

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	155.487k	49.23	65.69	-16.46	20.01	Neutral	-	29.22	10.03	0.01	9.97						
AV	155.487k	30.89	55.69	-24.80	20.01	Neutral	-	10.88	10.03	0.01	9.97						
QP	169.084k	47.51	65.01	-17.50	20.27	Neutral	-	27.24	10.29	0.01	9.97						
AV	169.084k	30.66	55.01	-24.35	20.27	Neutral	-	10.39	10.29	0.01	9.97						
QP	187.577k	43.87	64.15	-20.28	20.09	Neutral	-	23.78	10.11	0.01	9.97						
AV	187.577k	28.49	54.15	-25.66	20.09	Neutral	-	8.40	10.11	0.01	9.97						
QP	204.796k	41.56	63.42	-21.86	19.92	Neutral	-	21.64	9.94	0.01	9.97						
AV	204.796k	27.66	53.42	-25.76	19.92	Neutral	-	7.74	9.94	0.01	9.97						
QP	253.051k	34.94	61.66	-26.72	19.67	Neutral	-	15.27	9.68	0.02	9.97						
AV	253.051k	25.54	51.66	-26.12	19.67	Neutral	-	5.87	9.68	0.02	9.97						
QP	449.637k	33.99	56.88	-22.89	20.05	Neutral	-	13.94	10.04	0.03	9.98						
AV	449.637k	28.08	46.88	-18.80	20.05	Neutral	-	8.03	10.04	0.03	9.98						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	38.115M	22.561M	22M6D1D	20.515M	16.448M
802.11ax HEW20_Nss1,(MCS0)_2TX	39.82M	19.94M	19M9D1D	21.12M	18.891M
802.11ax HEW40_Nss1,(MCS0)_2TX	60.39M	38.281M	38M3D1D	40.15M	37.681M
802.11ax HEW80_Nss1,(MCS0)_2TX	79.86M	77.161M	77M2D1D	79.2M	77.061M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.315M	17.019M	17M0D1D	18.81M	16.448M
802.11ax HEW20_Nss1,(MCS0)_2TX	25.465M	19.065M	19M1D1D	20.13M	18.966M
802.11ax HEW40_Nss1,(MCS0)_2TX	65.56M	38.031M	38M0D1D	39.16M	37.581M
802.11ax HEW80_Nss1,(MCS0)_2TX	79.64M	77.161M	77M2D1D	79.64M	77.061M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.32M	16.536M	16M5D1D	18.92M	13.478M
802.11ax HEW20_Nss1,(MCS0)_2TX	24.97M	18.991M	19M0D1D	18.81M	14.453M
802.11ax HEW40_Nss1,(MCS0)_2TX	63.58M	38.031M	38M0D1D	39.05M	33.828M
802.11ax HEW80_Nss1,(MCS0)_2TX	104.925M	77.361M	77M4D1D	78.76M	73.313M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.39M	19.152M	19M2D1D	3.16M	9.275M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.14M	19.24M	19M2D1D	4.52M	7.836M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.17M	48.276M	48M3D1D	4.08M	22.709M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.88M	77.361M	77M4D1D	3.62M	33.303M

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	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.515M	16.448M	21.505M	16.514M
5200MHz	Pass	Inf	38.115M	22.561M	29.315M	16.91M
5240MHz	Pass	Inf	23.21M	16.47M	21.23M	16.47M
5260MHz	Pass	Inf	26.675M	16.536M	24.97M	16.514M
5300MHz	Pass	Inf	22.77M	16.558M	29.315M	17.019M
5320MHz	Pass	Inf	18.81M	16.448M	22.33M	16.47M
5500MHz	Pass	Inf	20.735M	16.404M	20.845M	16.426M
5580MHz	Pass	Inf	21.065M	16.492M	23.32M	16.536M
5700MHz	Pass	Inf	18.92M	16.426M	20.405M	16.47M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	20.25M	14.468M	19.395M	13.478M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	10.135M	3.16M	9.275M
5745MHz	Pass	500k	16.39M	16.866M	16.335M	16.844M
5785MHz	Pass	500k	16.39M	18.317M	15.95M	19.152M
5825MHz	Pass	500k	16.39M	16.602M	16.39M	17.877M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.56M	18.941M	24.42M	19.09M
5200MHz	Pass	Inf	39.82M	19.94M	23.595M	18.991M
5240MHz	Pass	Inf	23.65M	18.941M	21.12M	18.891M
5260MHz	Pass	Inf	25.465M	19.04M	23.155M	18.991M
5300MHz	Pass	Inf	22.66M	18.966M	21.615M	18.966M
5320MHz	Pass	Inf	20.13M	18.966M	22M	19.065M
5500MHz	Pass	Inf	21.89M	18.991M	21.285M	18.816M
5580MHz	Pass	Inf	20.955M	18.916M	24.97M	18.916M
5700MHz	Pass	Inf	21.505M	18.966M	21.065M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	19.92M	14.498M	18.81M	14.453M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	9.375M	4.52M	7.836M
5745MHz	Pass	500k	19.03M	19.09M	19.03M	19.09M
5785MHz	Pass	500k	19.03M	19.14M	18.975M	19.215M
5825MHz	Pass	500k	19.14M	18.916M	19.03M	19.24M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.48M	37.681M	40.15M	37.681M
5230MHz	Pass	Inf	60.39M	38.281M	44.99M	37.881M
5270MHz	Pass	Inf	65.56M	38.031M	63.25M	37.981M
5310MHz	Pass	Inf	39.49M	37.681M	39.16M	37.581M
5510MHz	Pass	Inf	40.04M	37.781M	39.05M	37.581M
5550MHz	Pass	Inf	63.58M	38.031M	46.09M	37.881M
5670MHz	Pass	Inf	39.82M	37.731M	39.6M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.13M	34.213M	43.855M	33.828M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	25.007M	4.1M	22.709M
5755MHz	Pass	500k	38.17M	38.181M	38.06M	40.33M
5795MHz	Pass	500k	38.06M	40.58M	38.06M	48.276M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	79.86M	77.161M	79.2M	77.061M
5290MHz	Pass	Inf	79.64M	77.161M	79.64M	77.061M



5530MHz	Pass	Inf	78.76M	77.261M	80.3M	76.962M
5610MHz	Pass	Inf	78.76M	77.061M	86.68M	77.361M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	104.925M	73.388M	100.425M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.14M	34.283M	3.62M	33.303M
5775MHz	Pass	500k	77.88M	77.361M	75.9M	77.261M

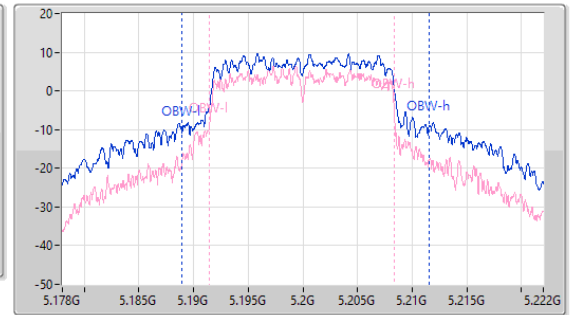
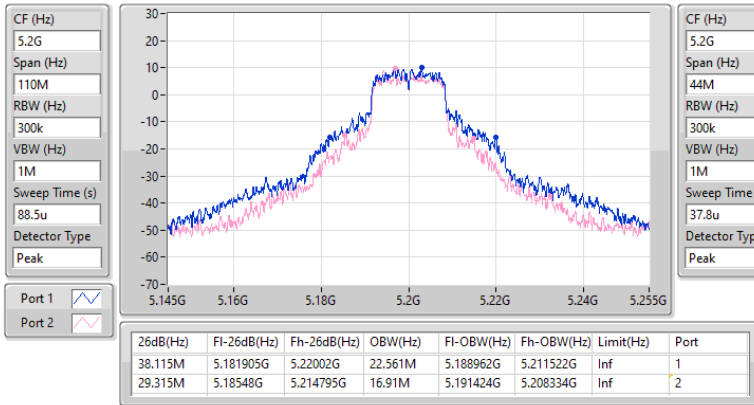
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

29/12/2024

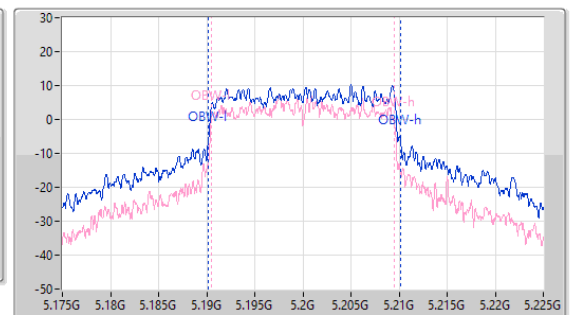
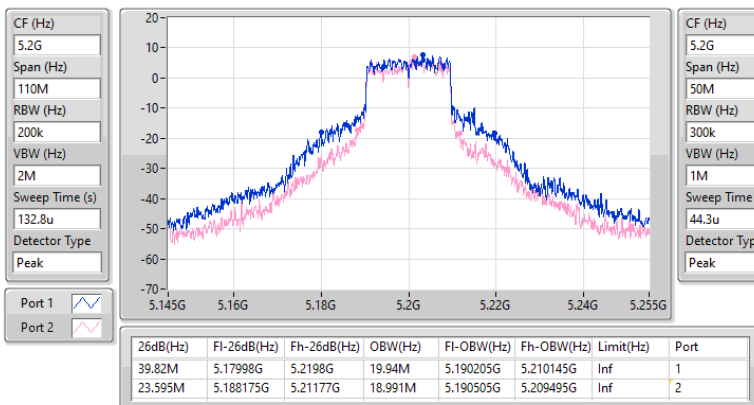


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

29/12/2024

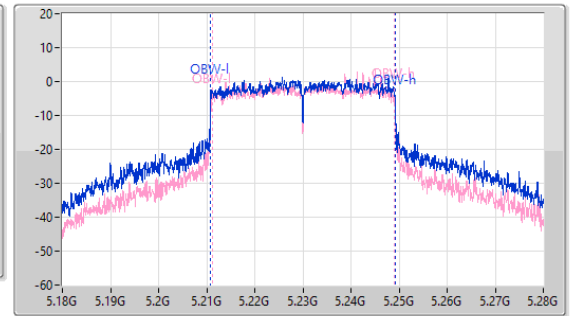
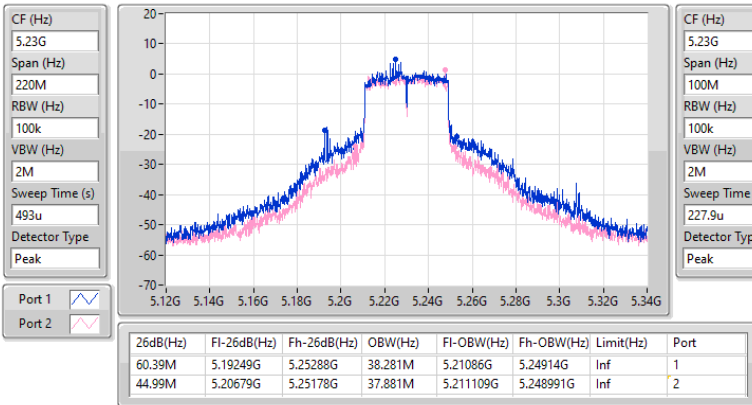


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

29/12/2024

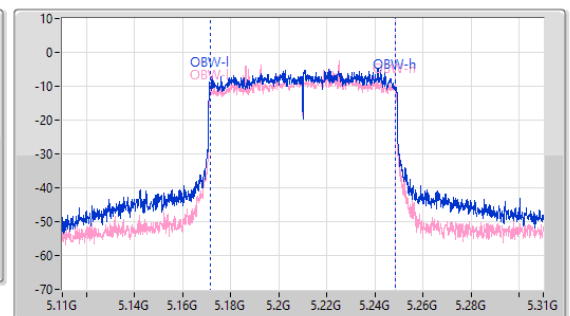
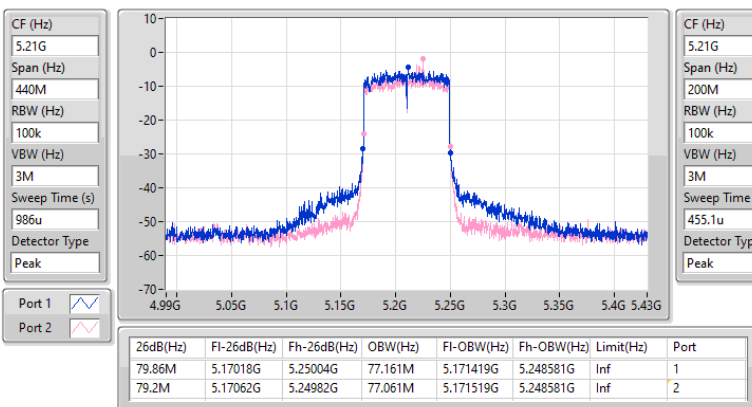


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

29/12/2024

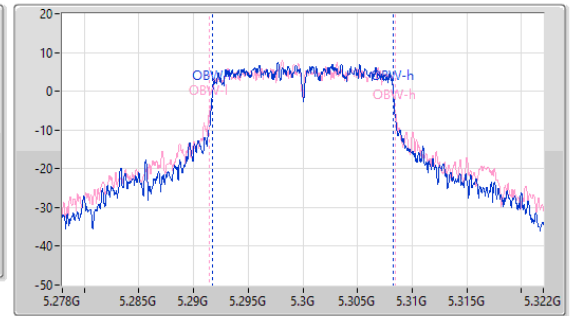
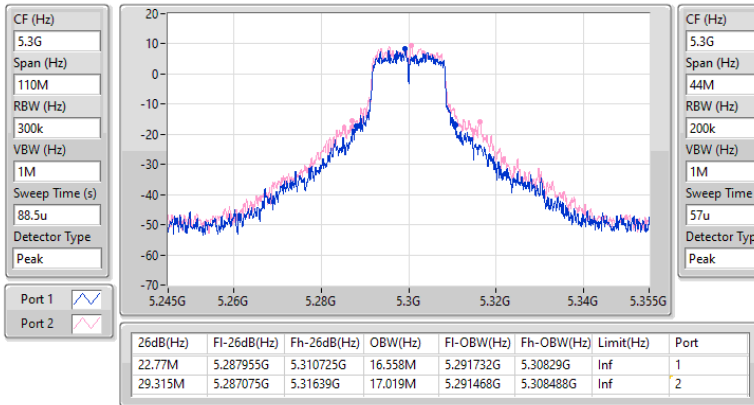


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

29/12/2024

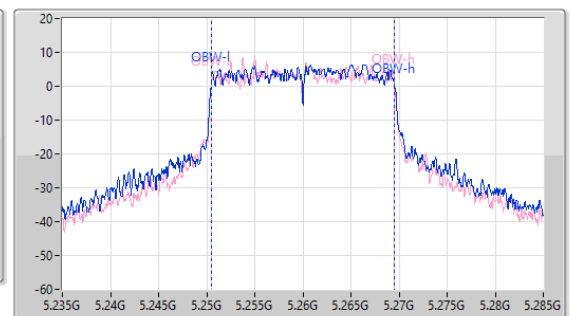
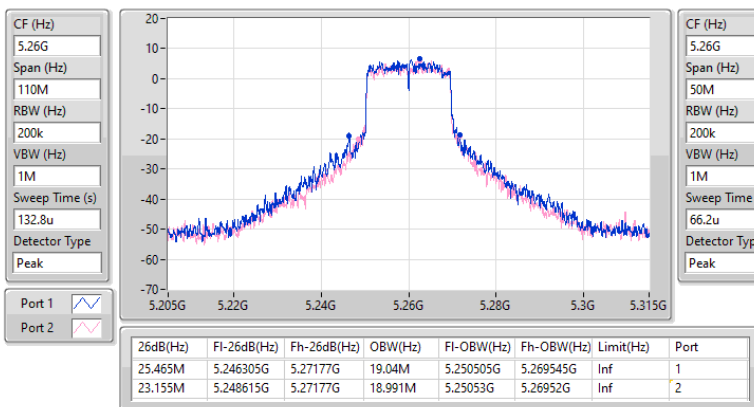


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

29/12/2024

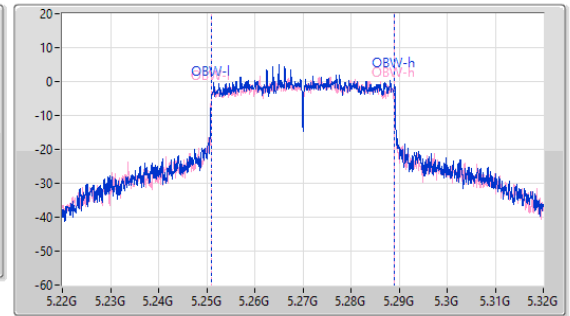
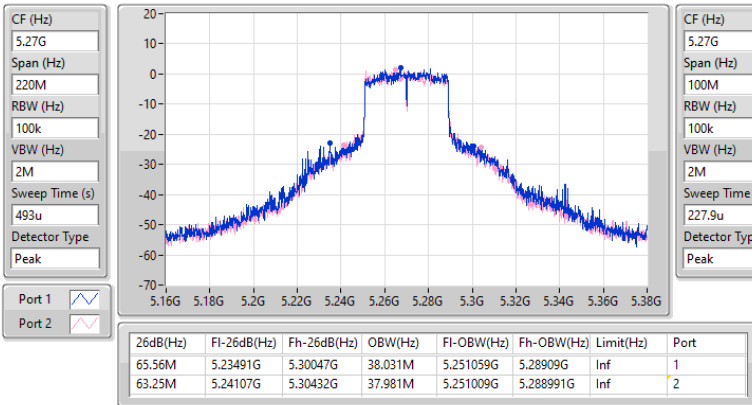


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5270MHz

29/12/2024

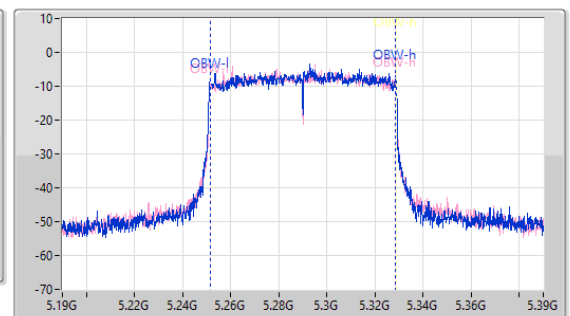
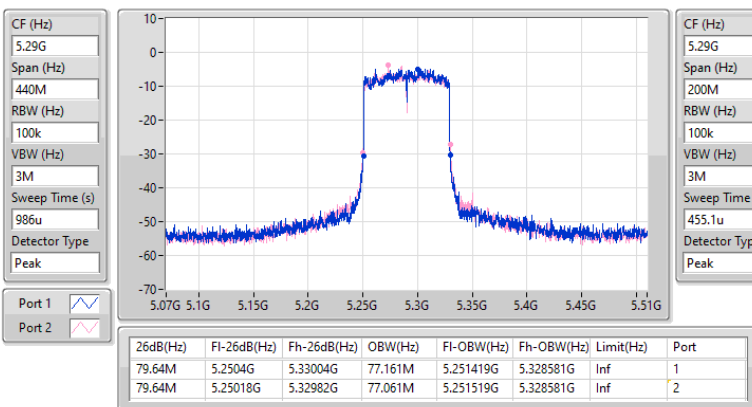


5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

29/12/2024

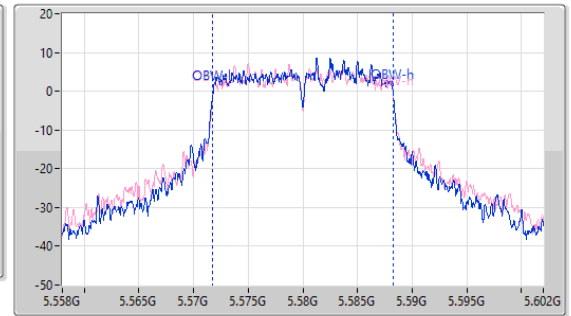
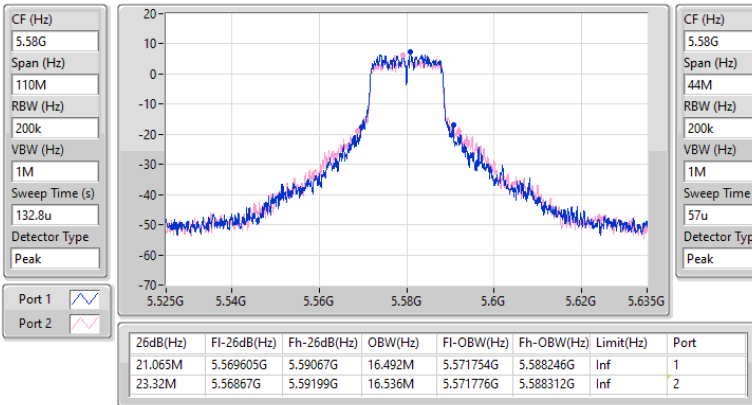


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

29/12/2024

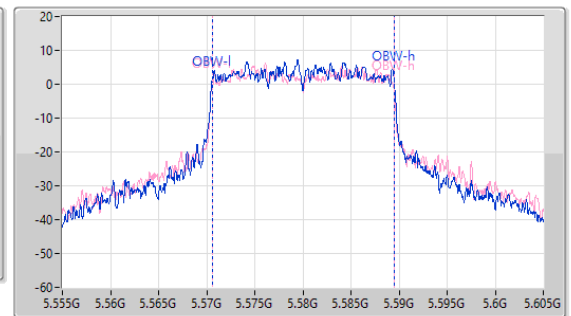
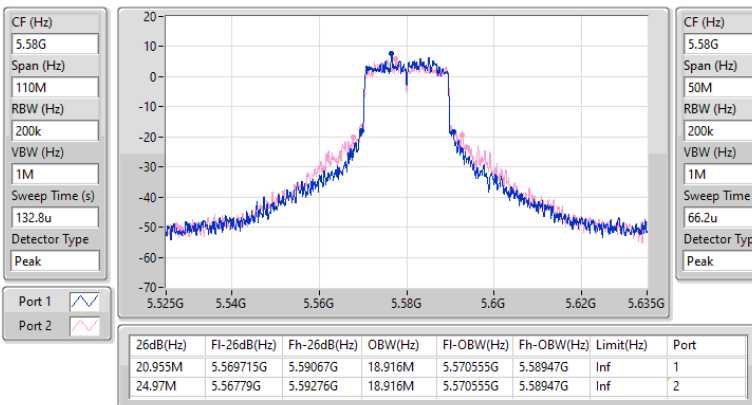


5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

29/12/2024

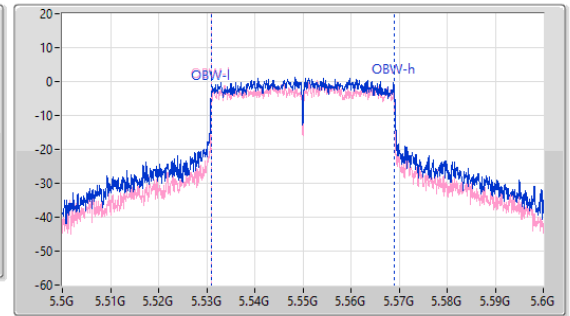
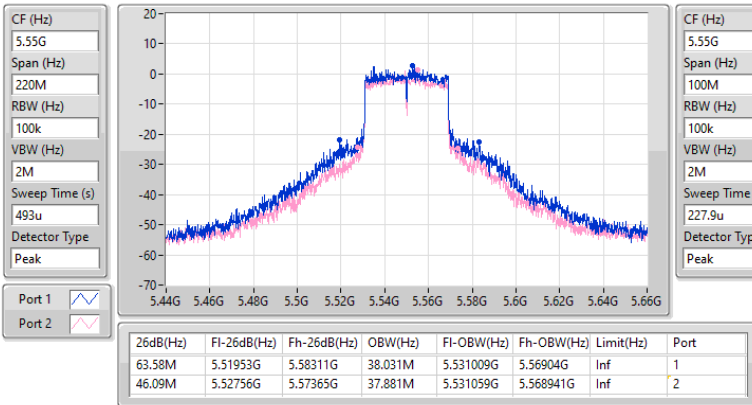


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5550MHz

29/12/2024

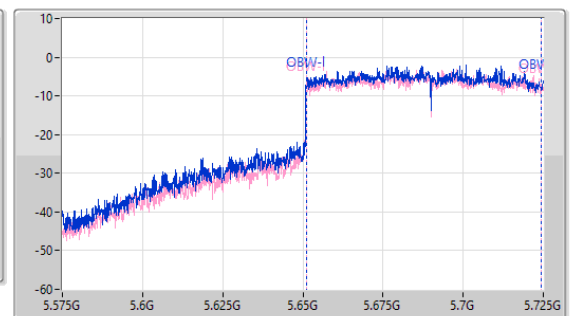
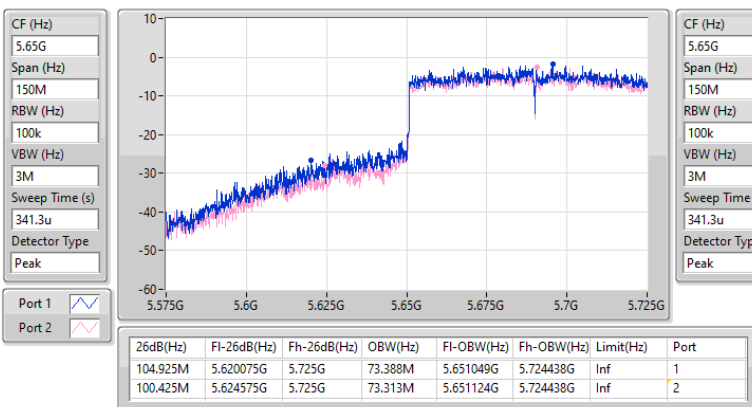


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

29/12/2024

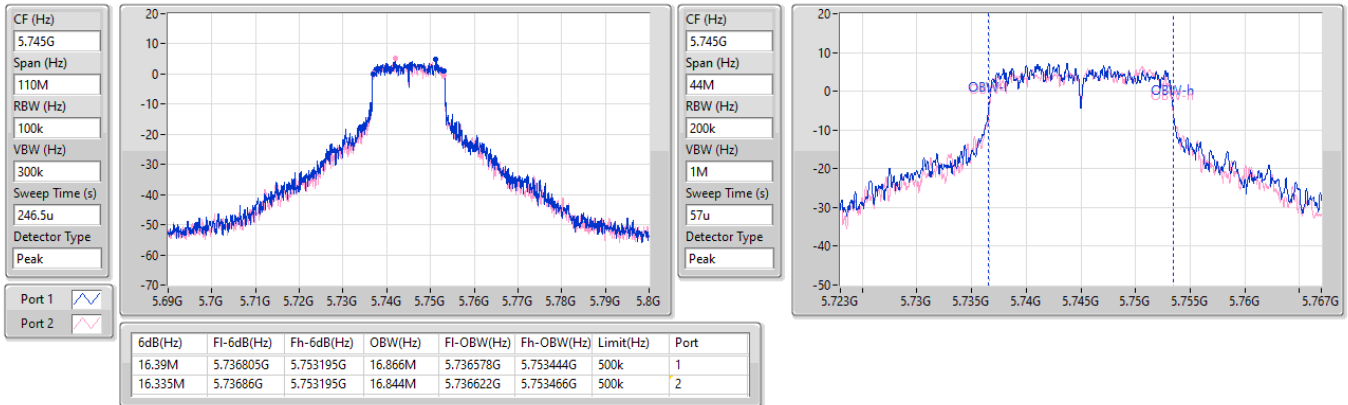


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

29/12/2024

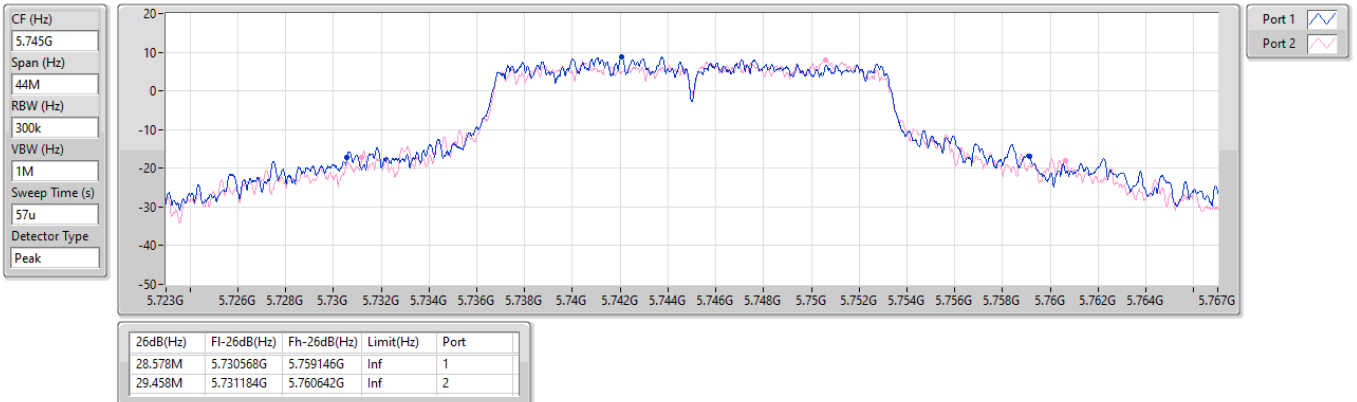


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

29/12/2024

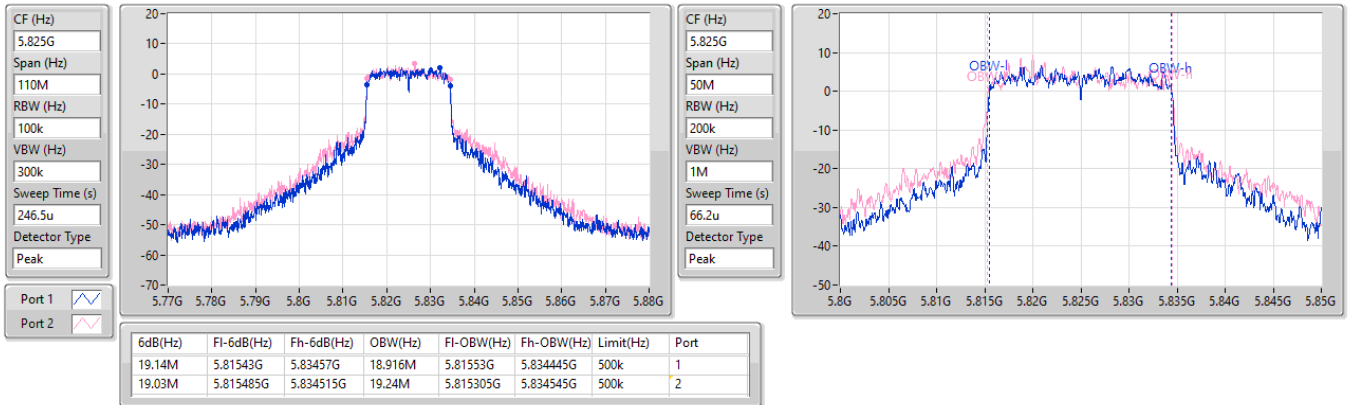


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

29/12/2024

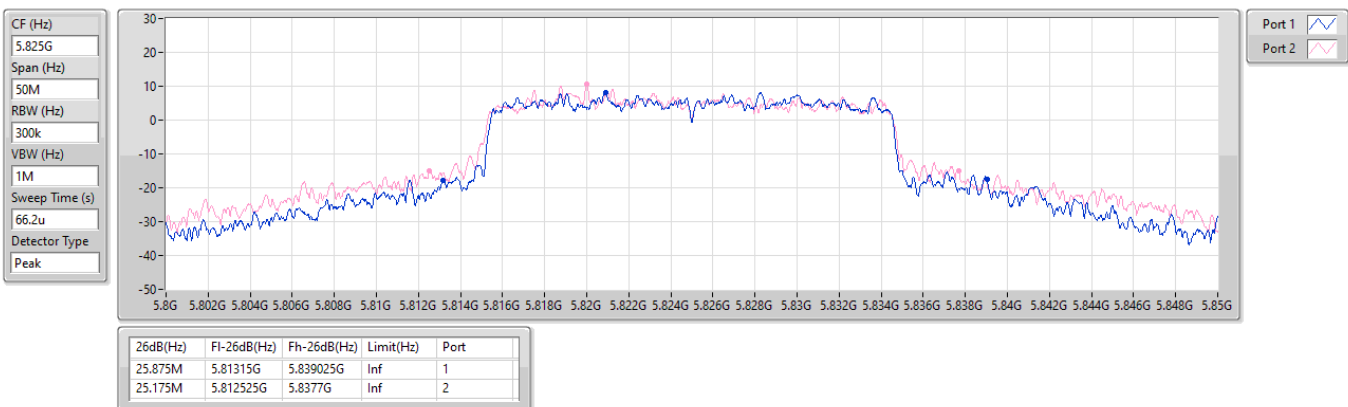


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

29/12/2024

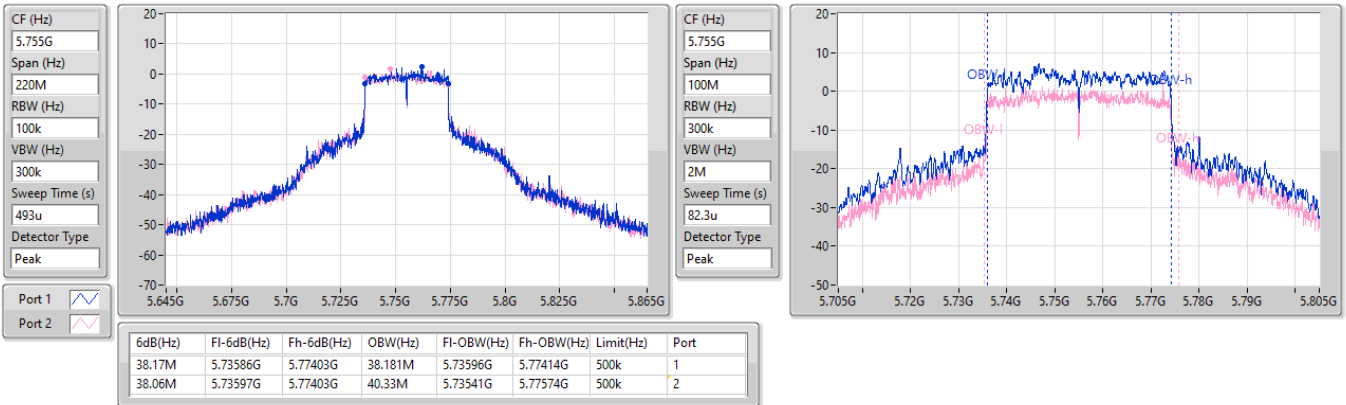


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

29/12/2024

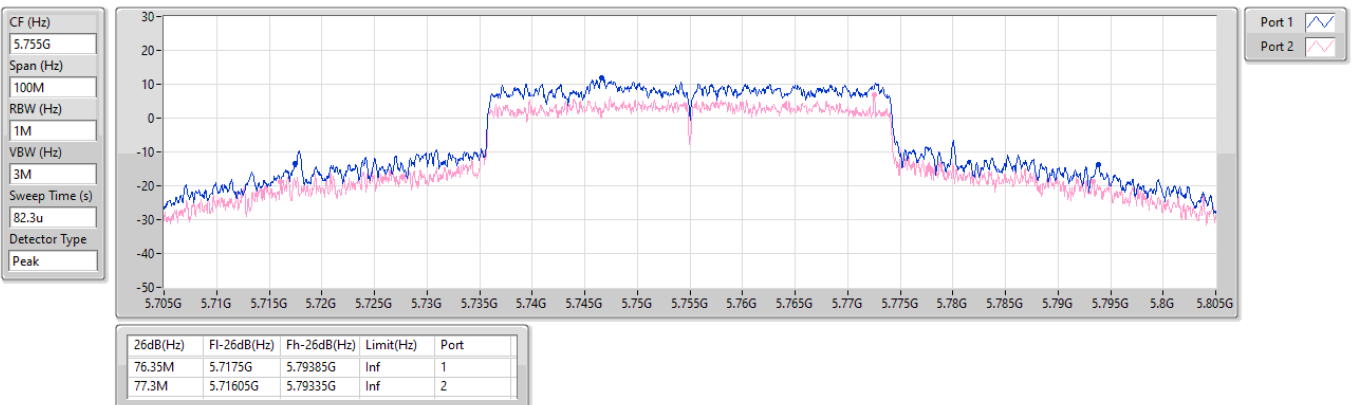


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

29/12/2024

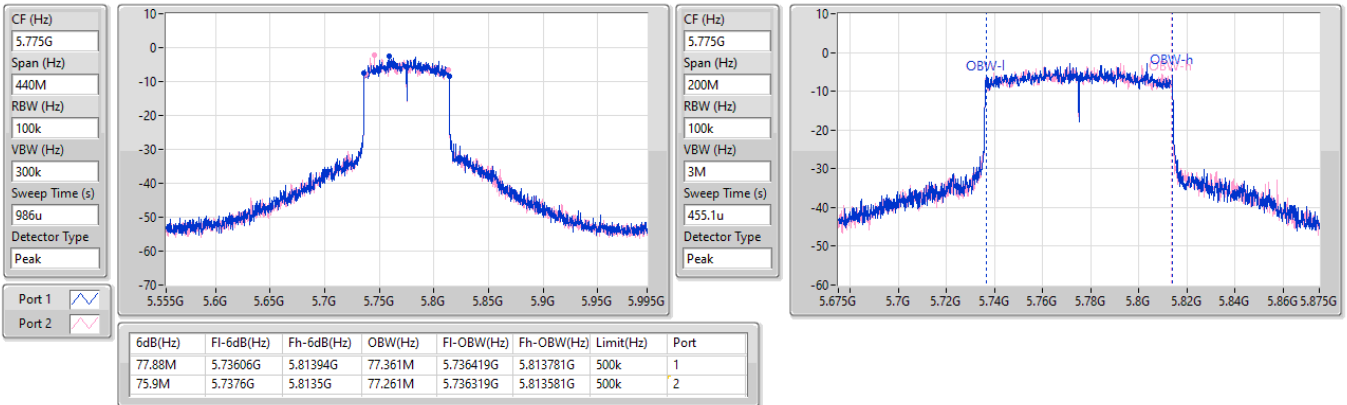


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

29/12/2024

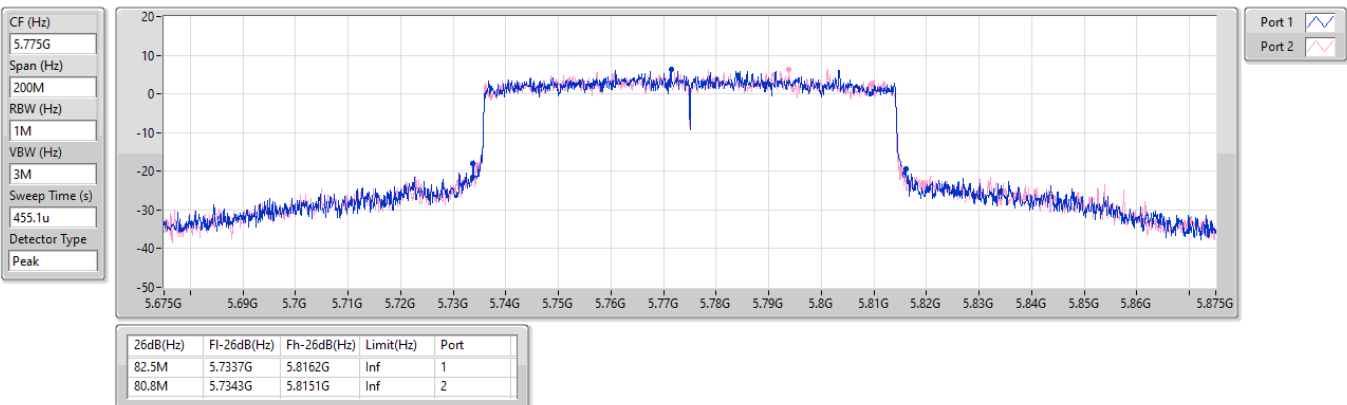


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

29/12/2024



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.33M	16.58M	16M6D1D	19.525M	16.404M
802.11ax HEW20_Nss1,(MCS0)_2TX	24.42M	19.09M	19M1D1D	21.12M	18.891M
802.11ax HEW40_Nss1,(MCS0)_2TX	43.67M	37.781M	37M8D1D	40.15M	37.681M
802.11ax HEW80_Nss1,(MCS0)_2TX	79.86M	77.161M	77M2D1D	79.2M	77.061M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	29.315M	17.019M	17M0D1D	18.81M	16.448M
802.11ax HEW20_Nss1,(MCS0)_2TX	25.465M	19.065M	19M1D1D	20.13M	18.966M
802.11ax HEW40_Nss1,(MCS0)_2TX	65.56M	38.031M	38M0D1D	39.16M	37.581M
802.11ax HEW80_Nss1,(MCS0)_2TX	79.64M	77.161M	77M2D1D	79.64M	77.061M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	23.32M	16.536M	16M5D1D	18.92M	13.478M
802.11ax HEW20_Nss1,(MCS0)_2TX	24.97M	18.991M	19M0D1D	18.81M	14.453M
802.11ax HEW40_Nss1,(MCS0)_2TX	63.58M	38.031M	38M0D1D	39.05M	33.828M
802.11ax HEW80_Nss1,(MCS0)_2TX	104.925M	77.361M	77M4D1D	78.76M	73.313M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.39M	19.152M	19M2D1D	3.16M	9.275M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.14M	19.24M	19M2D1D	4.52M	7.836M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.17M	48.276M	48M3D1D	4.08M	22.709M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.88M	77.361M	77M4D1D	3.62M	33.303M

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	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.515M	16.448M	21.505M	16.514M
5200MHz	Pass	Inf	22.33M	16.448M	21.175M	16.404M
5240MHz	Pass	Inf	21.725M	16.58M	19.525M	16.404M
5260MHz	Pass	Inf	26.675M	16.536M	24.97M	16.514M
5300MHz	Pass	Inf	22.77M	16.558M	29.315M	17.019M
5320MHz	Pass	Inf	18.81M	16.448M	22.33M	16.47M
5500MHz	Pass	Inf	20.735M	16.404M	20.845M	16.426M
5580MHz	Pass	Inf	21.065M	16.492M	23.32M	16.536M
5700MHz	Pass	Inf	18.92M	16.426M	20.405M	16.47M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	20.25M	14.468M	19.395M	13.478M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.18M	10.135M	3.16M	9.275M
5745MHz	Pass	500k	16.39M	16.866M	16.335M	16.844M
5785MHz	Pass	500k	16.39M	18.317M	15.95M	19.152M
5825MHz	Pass	500k	16.39M	16.602M	16.39M	17.877M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	21.56M	18.941M	24.42M	19.09M
5200MHz	Pass	Inf	23.76M	19.04M	23.485M	19.04M
5240MHz	Pass	Inf	23.65M	18.941M	21.12M	18.891M
5260MHz	Pass	Inf	25.465M	19.04M	23.155M	18.991M
5300MHz	Pass	Inf	22.66M	18.966M	21.615M	18.966M
5320MHz	Pass	Inf	20.13M	18.966M	22M	19.065M
5500MHz	Pass	Inf	21.89M	18.991M	21.285M	18.816M
5580MHz	Pass	Inf	20.955M	18.916M	24.97M	18.916M
5700MHz	Pass	Inf	21.505M	18.966M	21.065M	18.916M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	19.92M	14.498M	18.81M	14.453M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	9.375M	4.52M	7.836M
5745MHz	Pass	500k	19.03M	19.09M	19.03M	19.09M
5785MHz	Pass	500k	19.03M	19.14M	18.975M	19.215M
5825MHz	Pass	500k	19.14M	18.916M	19.03M	19.24M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	40.48M	37.681M	40.15M	37.681M
5230MHz	Pass	Inf	43.67M	37.781M	41.25M	37.781M
5270MHz	Pass	Inf	65.56M	38.031M	63.25M	37.981M
5310MHz	Pass	Inf	39.49M	37.681M	39.16M	37.581M
5510MHz	Pass	Inf	40.04M	37.781M	39.05M	37.581M
5550MHz	Pass	Inf	63.58M	38.031M	46.09M	37.881M
5670MHz	Pass	Inf	39.82M	37.731M	39.6M	37.781M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	53.13M	34.213M	43.855M	33.828M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	25.007M	4.1M	22.709M
5755MHz	Pass	500k	38.17M	38.181M	38.06M	40.33M
5795MHz	Pass	500k	38.06M	40.58M	38.06M	48.276M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	79.86M	77.161M	79.2M	77.061M
5290MHz	Pass	Inf	79.64M	77.161M	79.64M	77.061M



5530MHz	Pass	Inf	78.76M	77.261M	80.3M	76.962M
5610MHz	Pass	Inf	78.76M	77.061M	86.68M	77.361M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	104.925M	73.388M	100.425M	73.313M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.14M	34.283M	3.62M	33.303M
5775MHz	Pass	500k	77.88M	77.361M	75.9M	77.261M

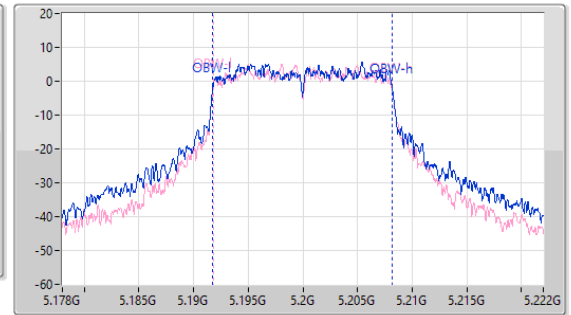
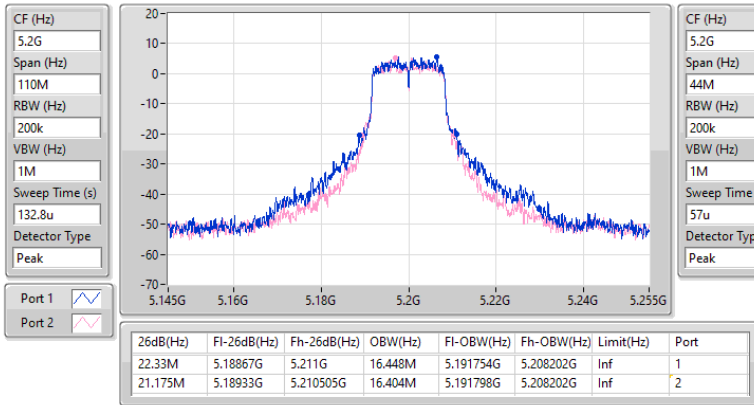
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5200MHz

08/01/2025

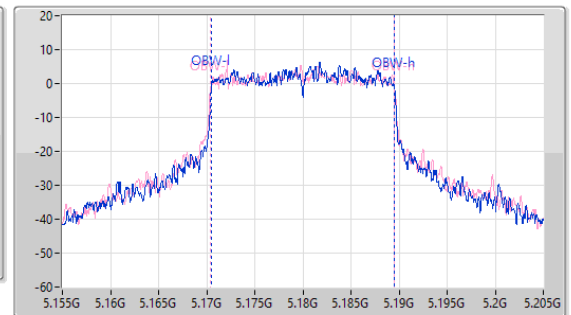
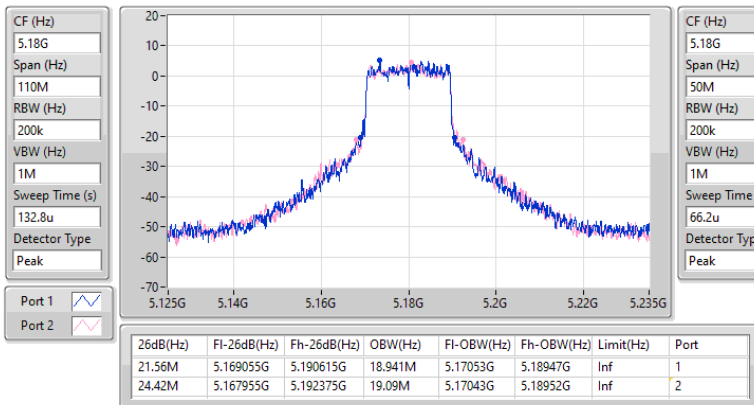


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5180MHz

29/12/2024

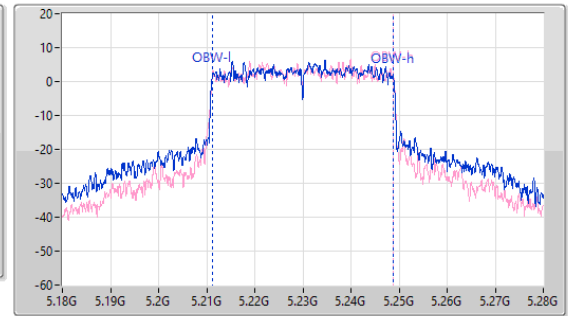
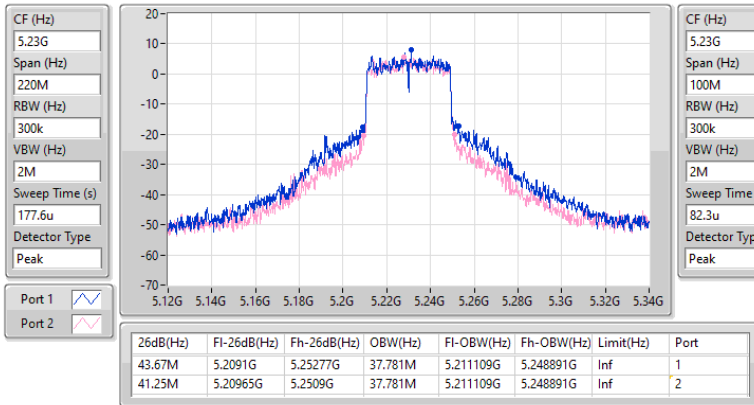


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

08/01/2025

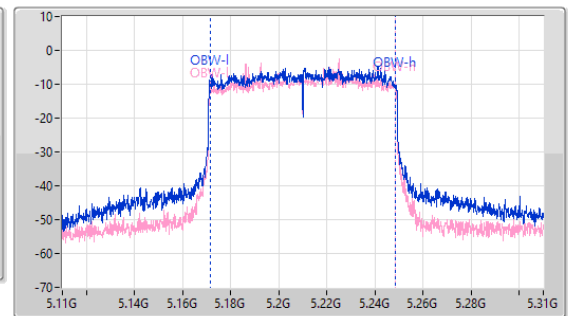
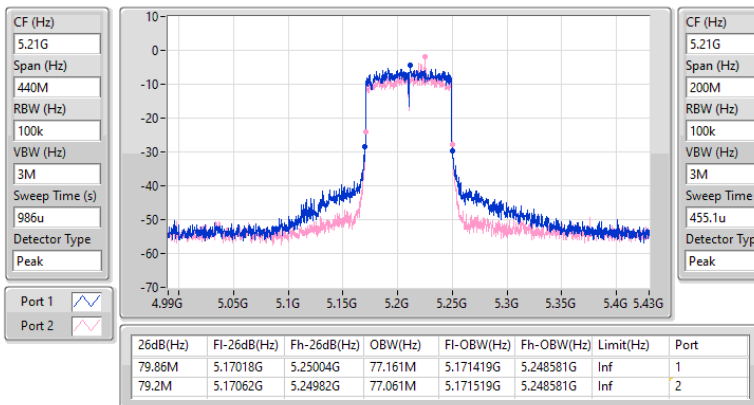


5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

29/12/2024

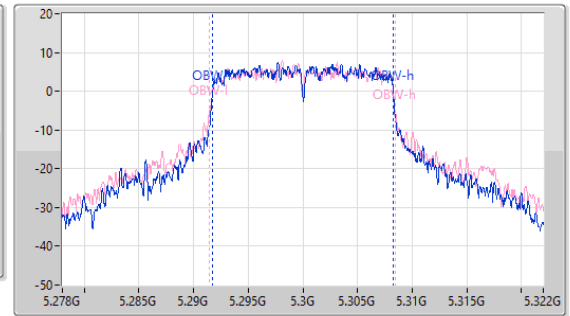
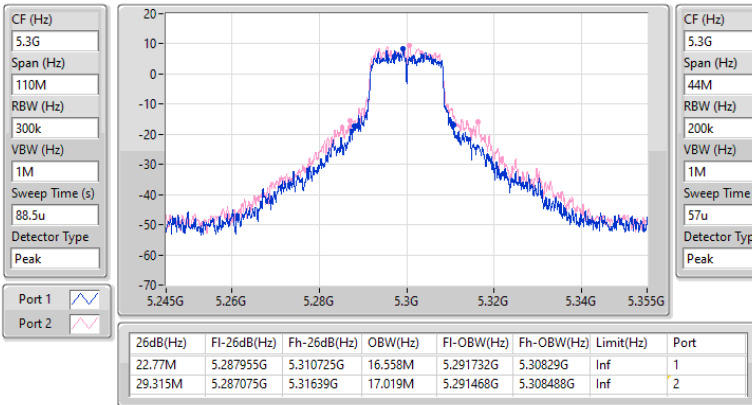


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5300MHz

29/12/2024

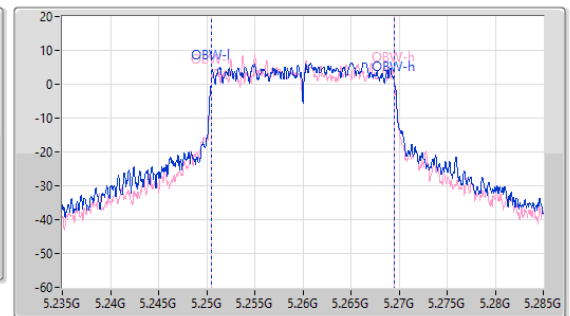
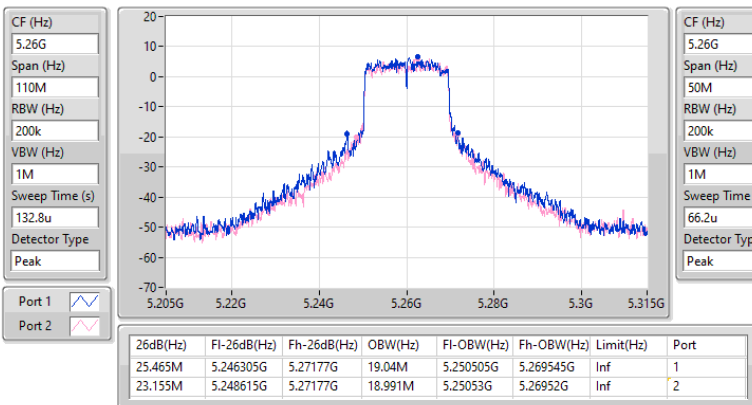


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5260MHz

29/12/2024

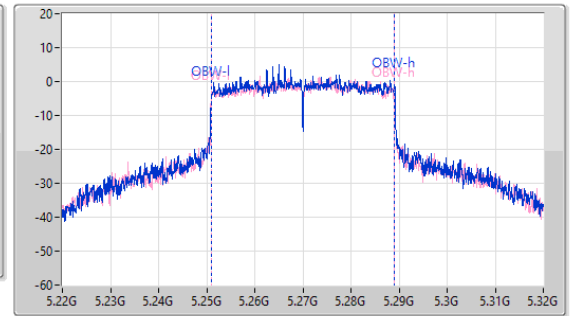
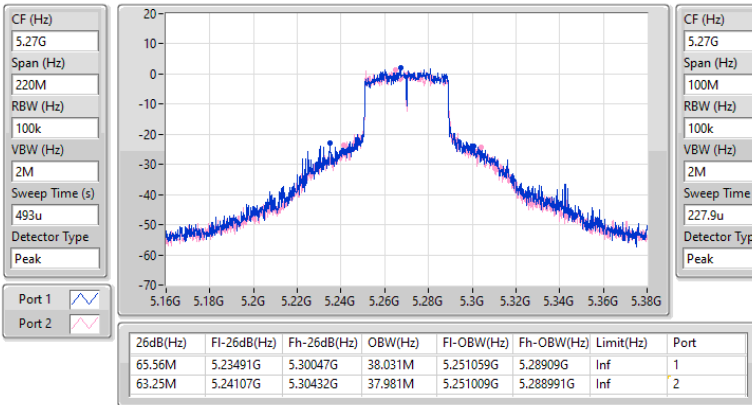


5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5270MHz

29/12/2024

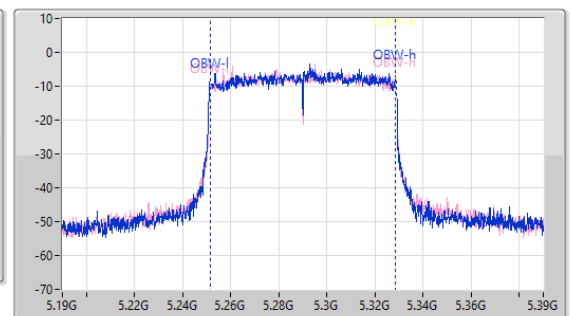
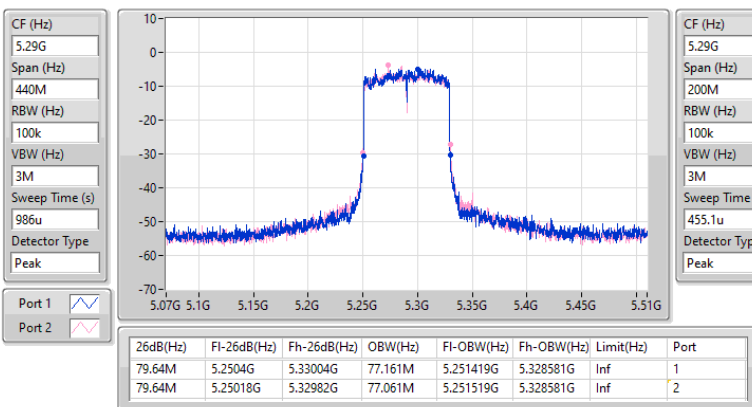


5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5290MHz

29/12/2024

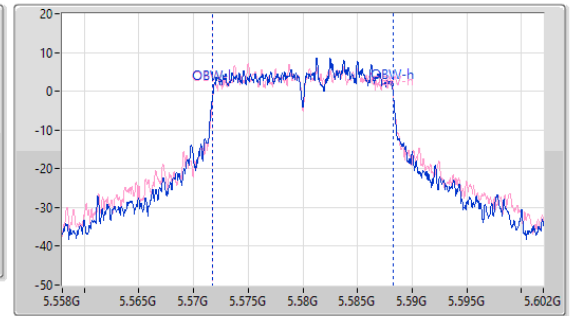
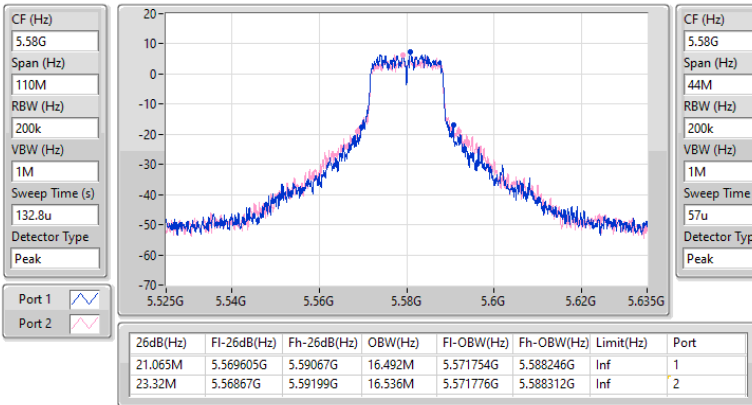


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5580MHz

29/12/2024

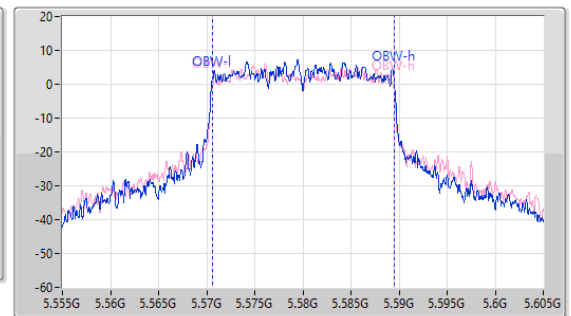
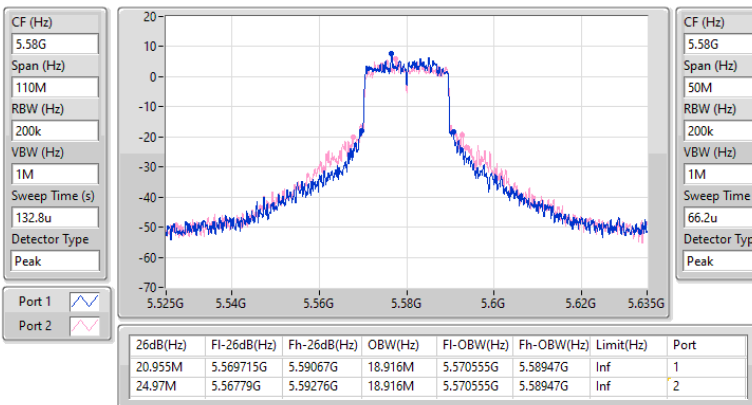


5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5580MHz

29/12/2024

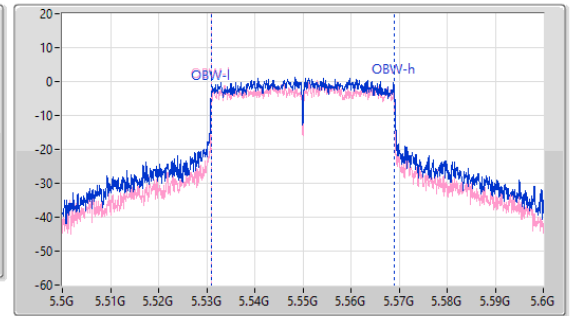
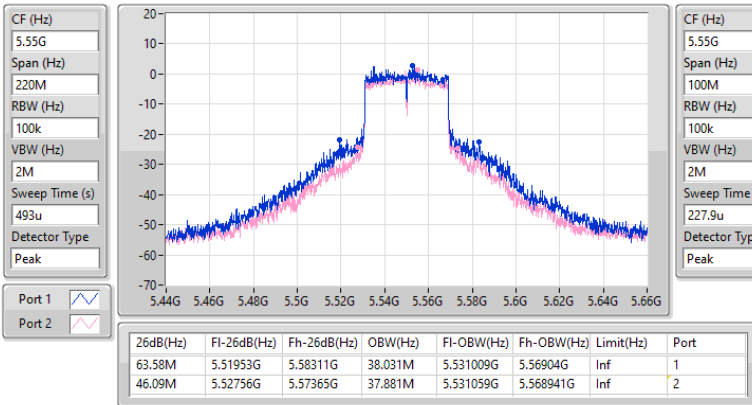


5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5550MHz

29/12/2024

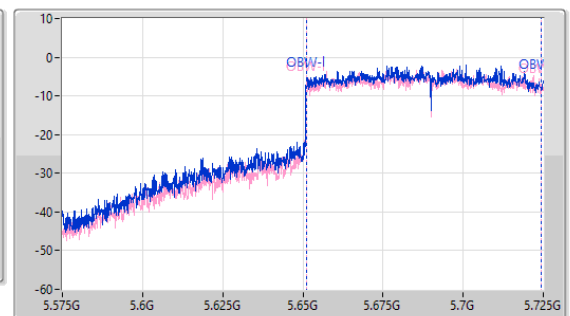
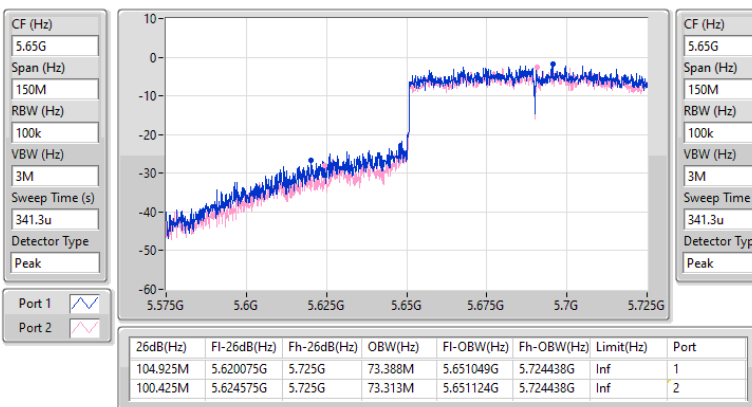


5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

29/12/2024

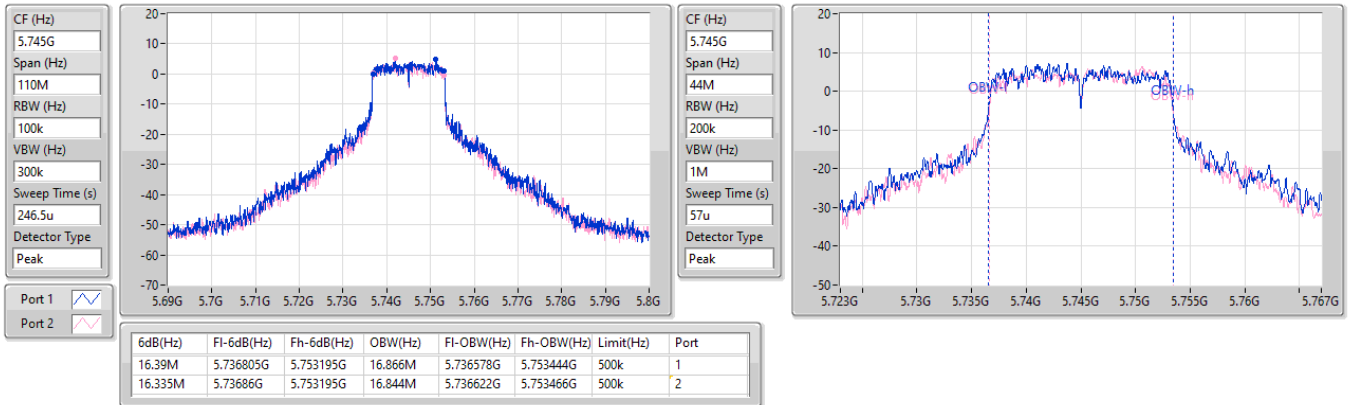


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

29/12/2024

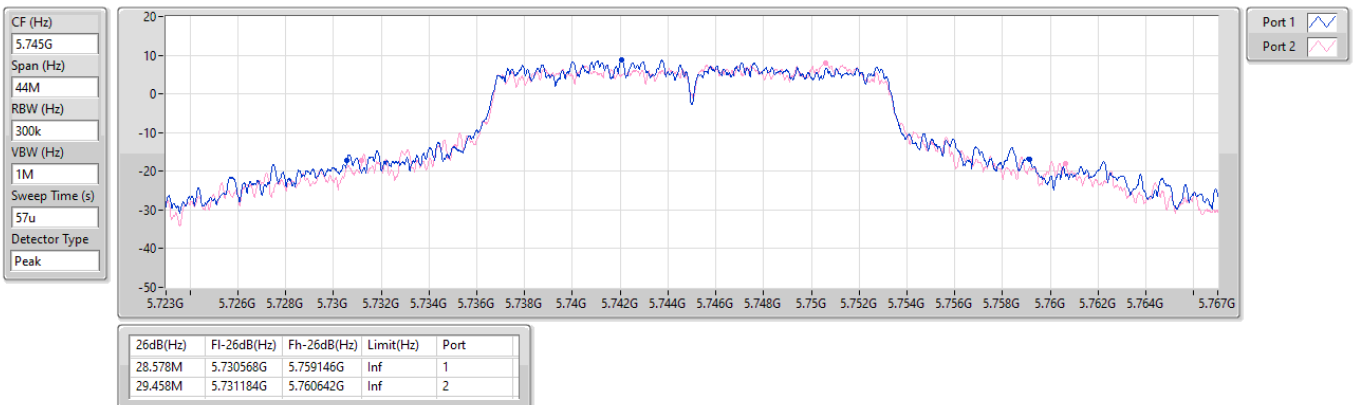


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

29/12/2024

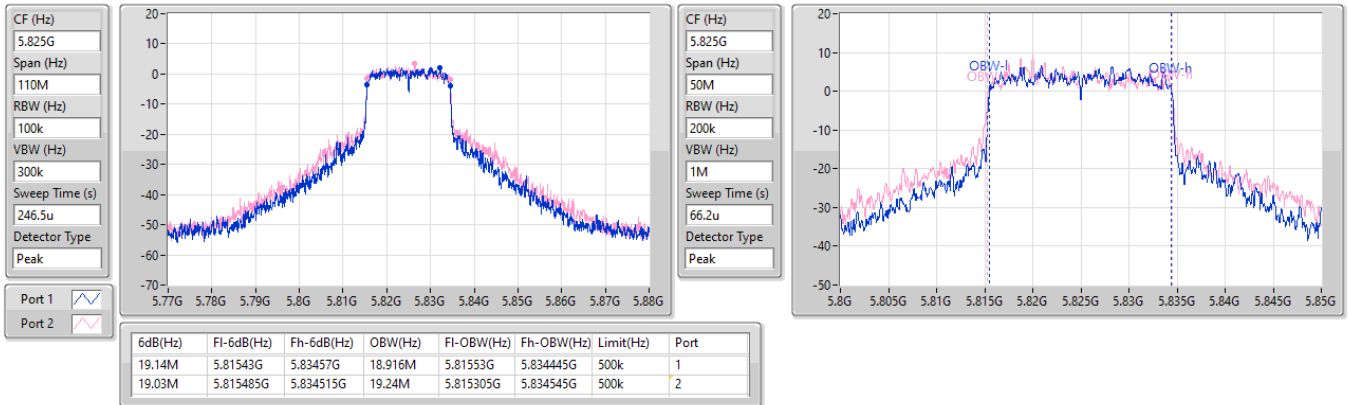


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

29/12/2024

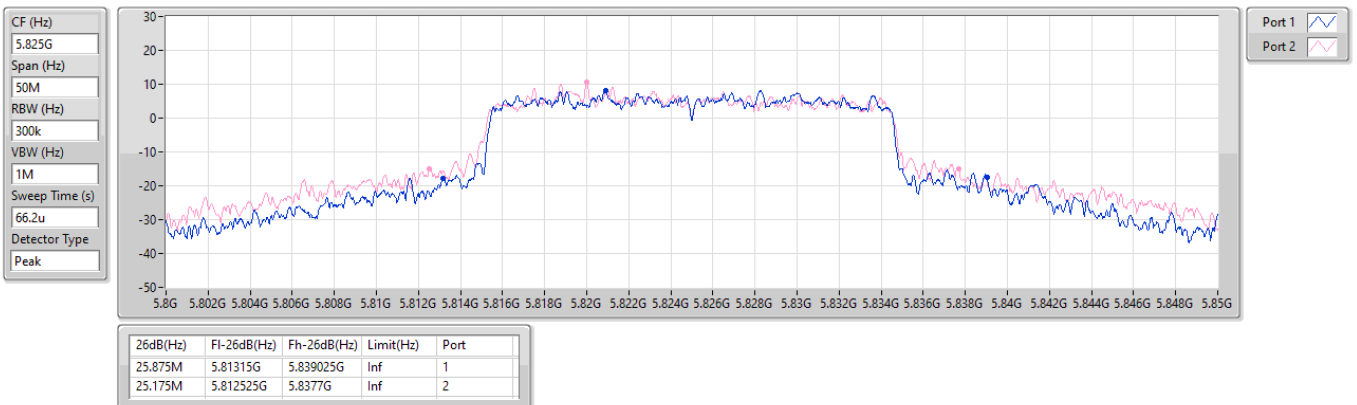


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5825MHz

29/12/2024

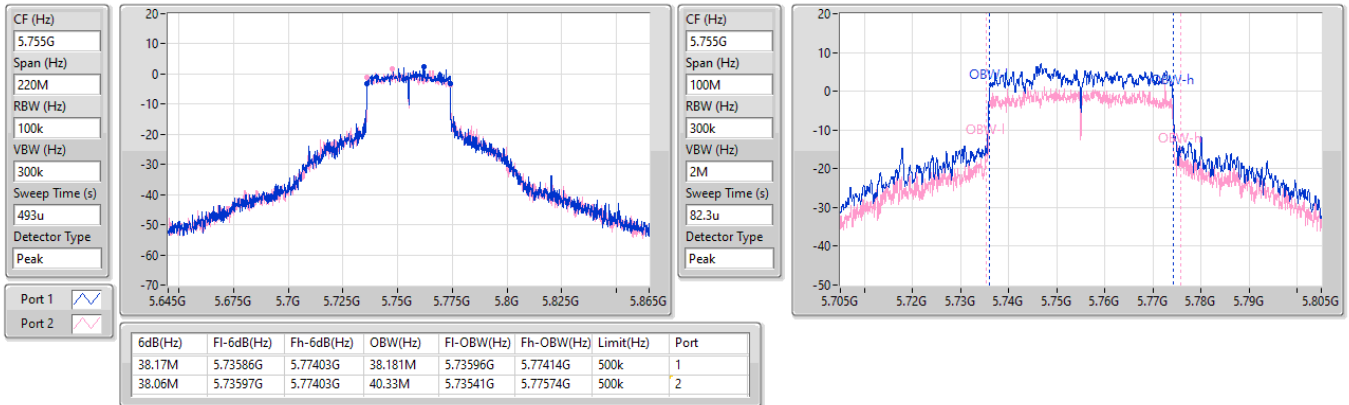


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

29/12/2024

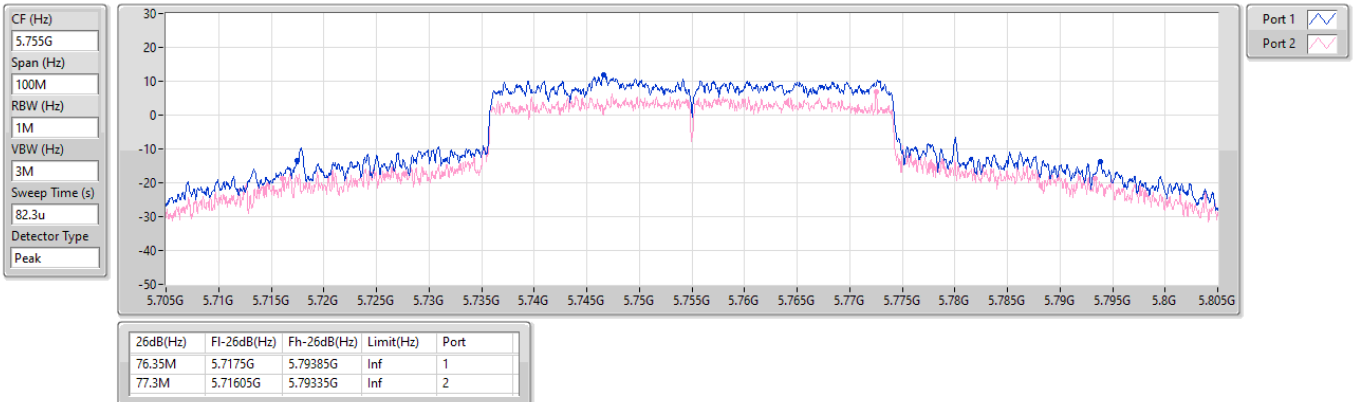


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

29/12/2024

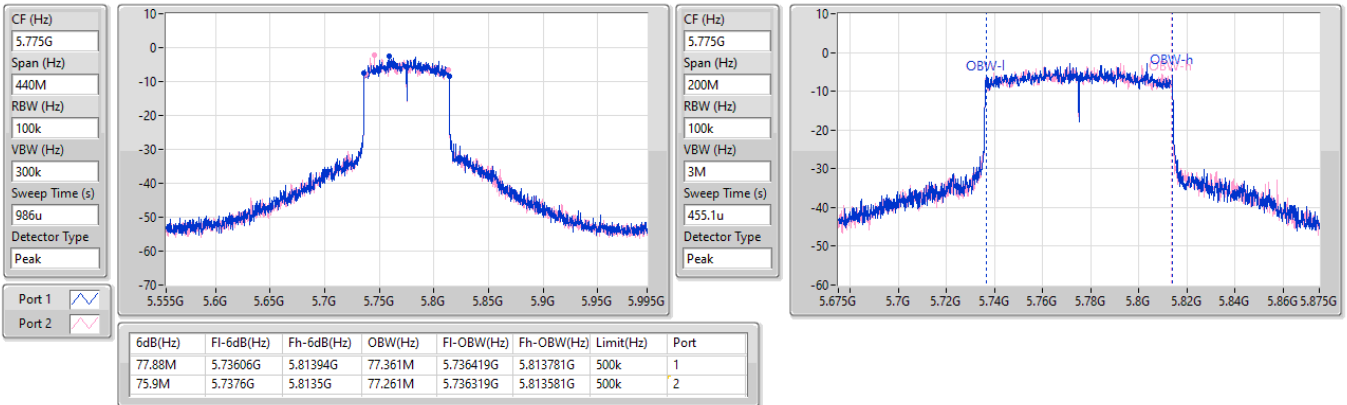


5.725-5.85GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

29/12/2024

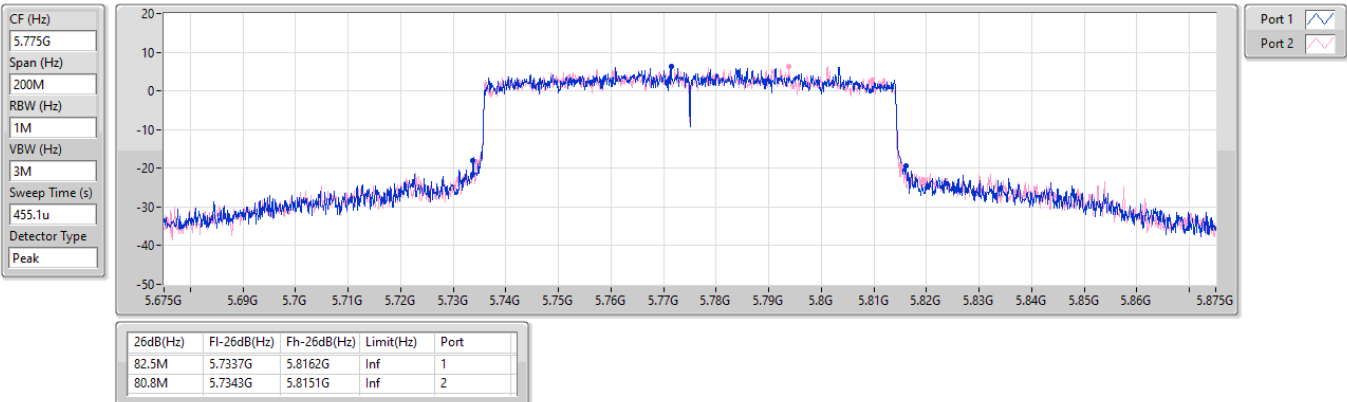


5.725-5.85GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

29/12/2024



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	21.79	0.15101
802.11ax HEW20_Nss1,(MCS0)_2TX	21.47	0.14028
802.11ax HEW40_Nss1,(MCS0)_2TX	21.37	0.13709
802.11ax HEW80_Nss1,(MCS0)_2TX	17.51	0.05636
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	22.02	0.15922
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40_Nss1,(MCS0)_2TX	21.94	0.15631
802.11ax HEW80_Nss1,(MCS0)_2TX	18.46	0.07015
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.92	0.12359
802.11ax HEW20_Nss1,(MCS0)_2TX	20.94	0.12417
802.11ax HEW40_Nss1,(MCS0)_2TX	21.62	0.14521
802.11ax HEW80_Nss1,(MCS0)_2TX	20.52	0.11272
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	21.98	0.15776
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40_Nss1,(MCS0)_2TX	22.31	0.17022
802.11ax HEW80_Nss1,(MCS0)_2TX	19.85	0.09661

Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	2.41	16.31	16.41	19.37	30.00
5200MHz	Pass	2.41	19.31	18.18	21.79	30.00
5240MHz	Pass	2.41	18.33	17.53	20.96	30.00
5260MHz	Pass	2.41	18.63	18.09	21.38	23.98
5300MHz	Pass	2.41	19.02	19.00	22.02	23.98
5320MHz	Pass	2.41	17.11	17.94	20.56	23.74
5500MHz	Pass	2.41	18.12	17.69	20.92	23.98
5580MHz	Pass	2.41	18.12	17.57	20.86	23.98
5700MHz	Pass	2.41	16.12	15.42	18.79	23.77
5720MHz Straddle 5.47-5.725GHz	Pass	2.41	17.69	17.32	20.52	23.88
5720MHz Straddle 5.725-5.85GHz	Pass	2.41	11.70	11.05	14.40	30.00
5745MHz	Pass	2.41	18.60	18.16	21.40	30.00
5785MHz	Pass	2.41	19.10	18.83	21.98	30.00
5825MHz	Pass	2.41	18.26	18.22	21.25	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	2.41	16.46	16.31	19.40	30.00
5200MHz	Pass	2.41	19.09	17.72	21.47	30.00
5240MHz	Pass	2.41	17.86	17.12	20.52	30.00
5260MHz	Pass	2.41	18.20	17.60	20.92	23.98
5300MHz	Pass	2.41	18.60	18.76	21.69	23.98
5320MHz	Pass	2.41	16.67	17.44	20.08	23.98
5500MHz	Pass	2.41	18.19	17.66	20.94	23.98
5580MHz	Pass	2.41	17.88	17.28	20.60	23.98
5700MHz	Pass	2.41	15.16	14.40	17.81	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	2.41	17.44	16.79	20.14	23.74
5720MHz Straddle 5.725-5.85GHz	Pass	2.41	11.79	10.94	14.40	30.00
5745MHz	Pass	2.41	18.24	17.75	21.01	30.00
5785MHz	Pass	2.41	18.80	18.55	21.69	30.00
5825MHz	Pass	2.41	17.90	17.73	20.83	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	2.41	15.09	14.68	17.90	30.00
5230MHz	Pass	2.41	18.86	17.79	21.37	30.00
5270MHz	Pass	2.41	19.11	18.75	21.94	23.98
5310MHz	Pass	2.41	15.90	16.23	19.08	23.98
5510MHz	Pass	2.41	16.39	15.60	19.02	23.98
5550MHz	Pass	2.41	19.25	17.87	21.62	23.98
5670MHz	Pass	2.41	15.51	15.50	18.52	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	2.41	18.75	17.77	21.30	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	2.41	8.64	7.51	11.12	30.00
5755MHz	Pass	2.41	19.07	18.81	21.95	30.00
5795MHz	Pass	2.41	19.26	19.34	22.31	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	2.41	15.11	13.79	17.51	30.00
5290MHz	Pass	2.41	15.55	15.34	18.46	23.98



Average Power Non-Beamforming Indoor

Appendix C.1

5530MHz	Pass	2.41	15.85	13.91	18.00	23.98
5610MHz	Pass	2.41	16.15	16.40	19.29	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	2.41	17.52	17.49	20.52	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	2.41	4.28	3.49	6.91	30.00
5775MHz	Pass	2.41	16.93	16.74	19.85	30.00

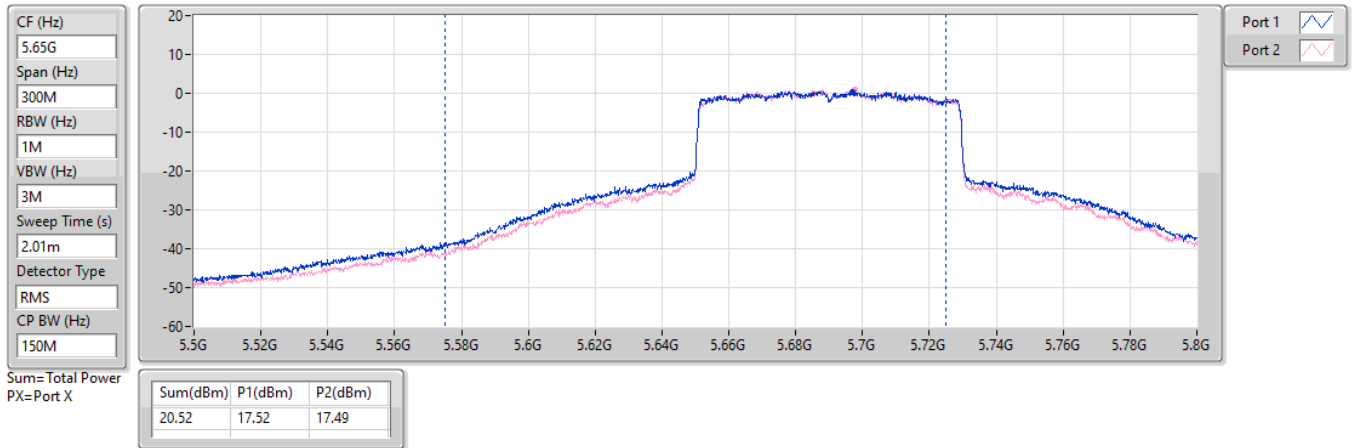
DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

29/12/2024



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	21.38	0.13740
802.11ax HEW20_Nss1,(MCS0)_2TX	21.13	0.12972
802.11ax HEW40_Nss1,(MCS0)_2TX	20.98	0.12531
802.11ax HEW80_Nss1,(MCS0)_2TX	17.51	0.05636
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	22.02	0.15922
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40_Nss1,(MCS0)_2TX	21.94	0.15631
802.11ax HEW80_Nss1,(MCS0)_2TX	18.46	0.07015
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.92	0.12359
802.11ax HEW20_Nss1,(MCS0)_2TX	20.94	0.12417
802.11ax HEW40_Nss1,(MCS0)_2TX	21.62	0.14521
802.11ax HEW80_Nss1,(MCS0)_2TX	20.52	0.11272
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	21.98	0.15776
802.11ax HEW20_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40_Nss1,(MCS0)_2TX	22.31	0.17022
802.11ax HEW80_Nss1,(MCS0)_2TX	19.85	0.09661



Average Power_Non-Beamforming_Outdoor

Appendix C.2

Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit	EIRP [Phi 30°]	EIRP [Phi 30°] Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-		
5180MHz	Pass	2.41	16.31	16.41	19.37	30.00	19.26	21.00
5200MHz	Pass	2.41	18.65	18.08	21.38	30.00	20.55	21.00
5240MHz	Pass	2.41	17.99	17.33	20.68	30.00	20.67	21.00
5260MHz	Pass	2.41	18.63	18.09	21.38	23.98		
5300MHz	Pass	2.41	19.02	19.00	22.02	23.98		
5320MHz	Pass	2.41	17.11	17.94	20.56	23.74		
5500MHz	Pass	2.41	18.12	17.69	20.92	23.98		
5580MHz	Pass	2.41	18.12	17.57	20.86	23.98		
5700MHz	Pass	2.41	16.12	15.42	18.79	23.77		
5720MHz Straddle 5.47-5.725GHz	Pass	2.41	17.69	17.32	20.52	23.88		
5720MHz Straddle 5.725-5.85GHz	Pass	2.41	11.70	11.05	14.40	30.00		
5745MHz	Pass	2.41	18.60	18.16	21.40	30.00		
5785MHz	Pass	2.41	19.10	18.83	21.98	30.00		
5825MHz	Pass	2.41	18.26	18.22	21.25	30.00		
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-		
5180MHz	Pass	2.41	16.46	16.31	19.40	30.00	18.95	21.00
5200MHz	Pass	2.41	18.56	17.62	21.13	30.00	20.44	21.00
5240MHz	Pass	2.41	17.86	17.12	20.52	30.00	19.78	21.00
5260MHz	Pass	2.41	18.20	17.60	20.92	23.98		
5300MHz	Pass	2.41	18.60	18.76	21.69	23.98		
5320MHz	Pass	2.41	16.67	17.44	20.08	23.98		
5500MHz	Pass	2.41	18.19	17.66	20.94	23.98		
5580MHz	Pass	2.41	17.88	17.28	20.60	23.98		
5700MHz	Pass	2.41	15.16	14.40	17.81	23.98		
5720MHz Straddle 5.47-5.725GHz	Pass	2.41	17.44	16.79	20.14	23.74		
5720MHz Straddle 5.725-5.85GHz	Pass	2.41	11.79	10.94	14.40	30.00		
5745MHz	Pass	2.41	18.24	17.75	21.01	30.00		
5785MHz	Pass	2.41	18.80	18.55	21.69	30.00		
5825MHz	Pass	2.41	17.90	17.73	20.83	30.00		
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-		
5190MHz	Pass	2.41	15.09	14.68	17.90	30.00	17.45	21.00
5230MHz	Pass	2.41	18.31	17.60	20.98	30.00	20.28	21.00
5270MHz	Pass	2.41	19.11	18.75	21.94	23.98		
5310MHz	Pass	2.41	15.90	16.23	19.08	23.98		
5510MHz	Pass	2.41	16.39	15.60	19.02	23.98		
5550MHz	Pass	2.41	19.25	17.87	21.62	23.98		
5670MHz	Pass	2.41	15.51	15.50	18.52	23.98		
5710MHz Straddle 5.47-5.725GHz	Pass	2.41	18.75	17.77	21.30	23.98		
5710MHz Straddle 5.725-5.85GHz	Pass	2.41	8.64	7.51	11.12	30.00		
5755MHz	Pass	2.41	19.07	18.81	21.95	30.00		
5795MHz	Pass	2.41	19.26	19.34	22.31	30.00		
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-		
5210MHz	Pass	2.41	15.11	13.79	17.51	30.00	16.74	21.00



Average Power Non-Beamforming Outdoor

Appendix C.2

5290MHz	Pass	2.41	15.55	15.34	18.46	23.98		
5530MHz	Pass	2.41	15.85	13.91	18.00	23.98		
5610MHz	Pass	2.41	16.15	16.40	19.29	23.98		
5690MHz Straddle 5.47-5.725GHz	Pass	2.41	17.52	17.49	20.52	23.98		
5690MHz Straddle 5.725-5.85GHz	Pass	2.41	4.28	3.49	6.91	30.00		
5775MHz	Pass	2.41	16.93	16.74	19.85	30.00		

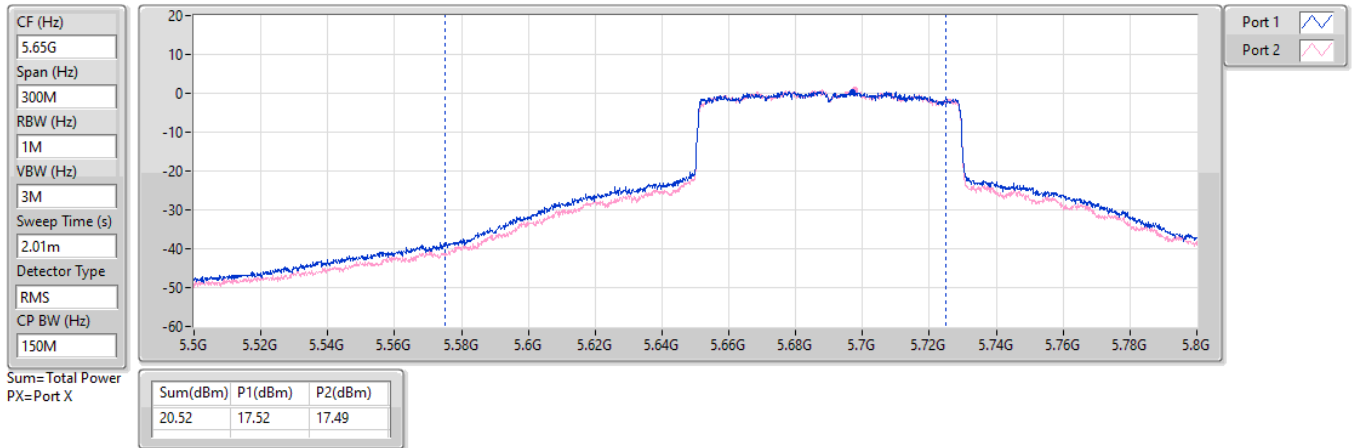
DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

29/12/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.47	0.14028
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.37	0.13709
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	17.51	0.05636
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.94	0.15631
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.46	0.07015
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.94	0.12417
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.62	0.14521
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.52	0.11272
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.31	0.17022
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.85	0.09661



Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.42	16.46	16.31	19.40	30.00
5200MHz	Pass	5.42	19.09	17.72	21.47	30.00
5240MHz	Pass	5.42	17.86	17.12	20.52	30.00
5260MHz	Pass	5.42	18.20	17.60	20.92	23.98
5300MHz	Pass	5.42	18.60	18.76	21.69	23.98
5320MHz	Pass	5.42	16.67	17.44	20.08	23.98
5500MHz	Pass	5.42	18.19	17.66	20.94	23.98
5580MHz	Pass	5.42	17.88	17.28	20.60	23.98
5700MHz	Pass	5.42	15.16	14.40	17.81	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	5.42	17.44	16.79	20.14	23.98
5720MHz Straddle 5.725-5.85GHz	Pass	5.42	11.79	10.94	14.40	30.00
5745MHz	Pass	5.42	18.24	17.75	21.01	30.00
5785MHz	Pass	5.42	18.80	18.55	21.69	30.00
5825MHz	Pass	5.42	17.90	17.73	20.83	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.42	15.09	14.68	17.90	30.00
5230MHz	Pass	5.42	18.86	17.79	21.37	30.00
5270MHz	Pass	5.42	19.11	18.75	21.94	23.98
5310MHz	Pass	5.42	15.90	16.23	19.08	23.98
5510MHz	Pass	5.42	16.39	15.60	19.02	23.98
5550MHz	Pass	5.42	19.25	17.87	21.62	23.98
5670MHz	Pass	5.42	15.51	15.50	18.52	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	5.42	18.75	17.77	21.30	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	5.42	8.64	7.51	11.12	30.00
5755MHz	Pass	5.42	19.07	18.81	21.95	30.00
5795MHz	Pass	5.42	19.26	19.34	22.31	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.42	15.11	13.79	17.51	30.00
5290MHz	Pass	5.42	15.55	15.34	18.46	23.98
5530MHz	Pass	5.42	15.85	13.91	18.00	23.98
5610MHz	Pass	5.42	16.15	16.40	19.29	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	5.42	17.52	17.49	20.52	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	5.42	4.28	3.49	6.91	30.00
5775MHz	Pass	5.42	16.93	16.74	19.85	30.00

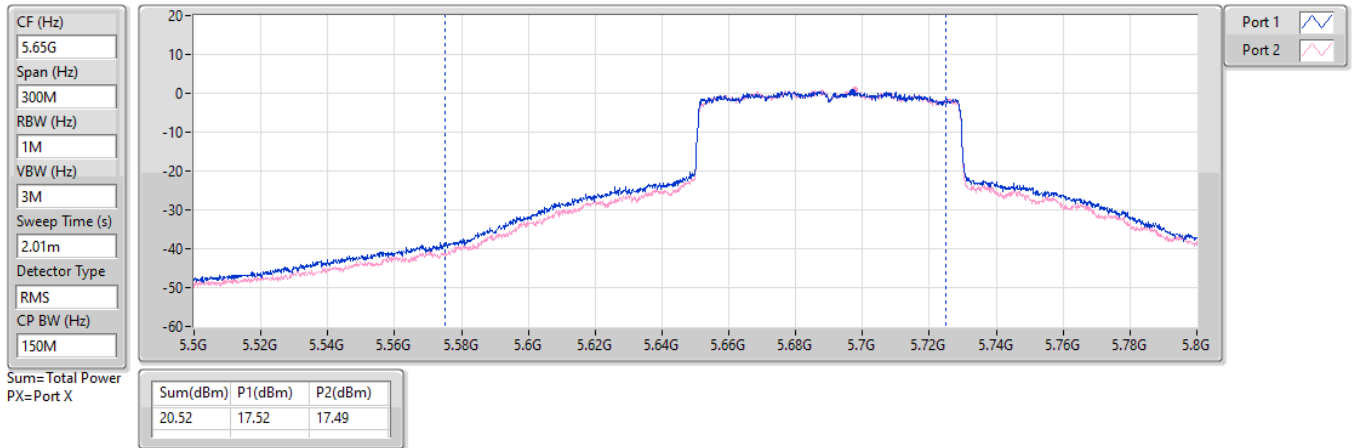
DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

29/12/2024



**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.13	0.12972
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.98	0.12531
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	17.51	0.05636
5.25-5.35GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.94	0.15631
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.46	0.07015
5.47-5.725GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	20.94	0.12417
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.62	0.14521
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	20.52	0.11272
5.725-5.85GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	21.69	0.14757
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	22.31	0.17022
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.85	0.09661



Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.42	16.46	16.31	19.40	30.00
5200MHz	Pass	5.42	18.56	17.62	21.13	30.00
5240MHz	Pass	5.42	17.86	17.12	20.52	30.00
5260MHz	Pass	5.42	18.20	17.60	20.92	23.98
5300MHz	Pass	5.42	18.60	18.76	21.69	23.98
5320MHz	Pass	5.42	16.67	17.44	20.08	23.98
5500MHz	Pass	5.42	18.19	17.66	20.94	23.98
5580MHz	Pass	5.42	17.88	17.28	20.60	23.98
5700MHz	Pass	5.42	15.16	14.40	17.81	23.98
5720MHz Straddle 5.47-5.725GHz	Pass	5.42	17.44	16.79	20.14	23.98
5720MHz Straddle 5.725-5.85GHz	Pass	5.42	11.79	10.94	14.40	30.00
5745MHz	Pass	5.42	18.24	17.75	21.01	30.00
5785MHz	Pass	5.42	18.80	18.55	21.69	30.00
5825MHz	Pass	5.42	17.90	17.73	20.83	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.42	15.09	14.68	17.90	30.00
5230MHz	Pass	5.42	18.31	17.60	20.98	30.00
5270MHz	Pass	5.42	19.11	18.75	21.94	23.98
5310MHz	Pass	5.42	15.90	16.23	19.08	23.98
5510MHz	Pass	5.42	16.39	15.60	19.02	23.98
5550MHz	Pass	5.42	19.25	17.87	21.62	23.98
5670MHz	Pass	5.42	15.51	15.50	18.52	23.98
5710MHz Straddle 5.47-5.725GHz	Pass	5.42	18.75	17.77	21.30	23.98
5710MHz Straddle 5.725-5.85GHz	Pass	5.42	8.64	7.51	11.12	30.00
5755MHz	Pass	5.42	19.07	18.81	21.95	30.00
5795MHz	Pass	5.42	19.26	19.34	22.31	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.42	15.11	13.79	17.51	30.00
5290MHz	Pass	5.42	15.55	15.34	18.46	23.98
5530MHz	Pass	5.42	15.85	13.91	18.00	23.98
5610MHz	Pass	5.42	16.15	16.40	19.29	23.98
5690MHz Straddle 5.47-5.725GHz	Pass	5.42	17.52	17.49	20.52	23.98
5690MHz Straddle 5.725-5.85GHz	Pass	5.42	4.28	3.49	6.91	30.00
5775MHz	Pass	5.42	16.93	16.74	19.85	30.00

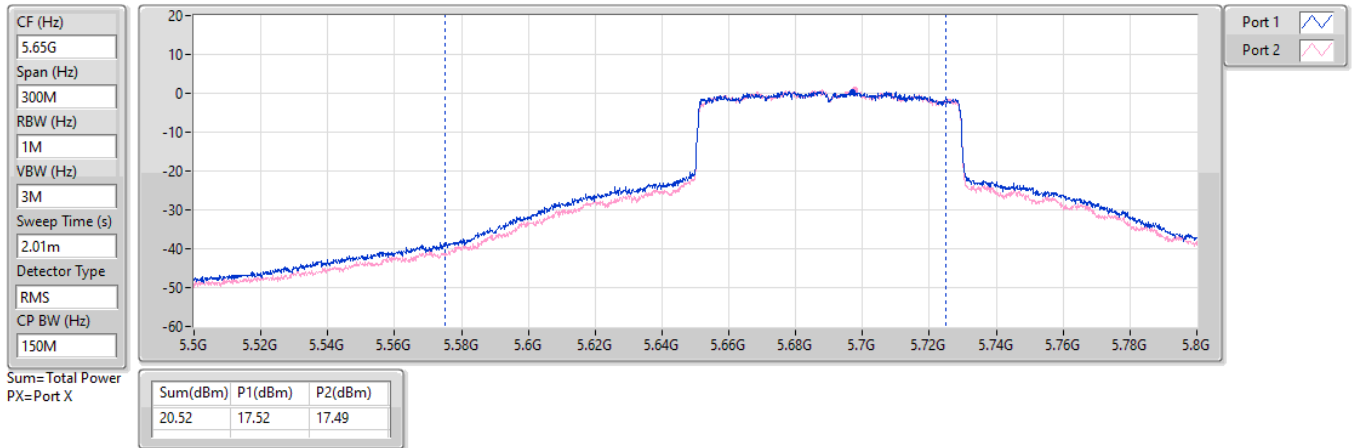
DG = Directional Gain; Port X = Port X output power
Inf = There's no restriction for the limit.

5.47-5.725GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

AV Power

5690MHz Straddle 5.47-5.725GHz_TX

29/12/2024





Summary

Mode	PD
	(dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	9.28
802.11ax HEW20_Nss1,(MCS0)_2TX	9.14
802.11ax HEW40_Nss1,(MCS0)_2TX	6.19
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.31
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	9.37
802.11ax HEW20_Nss1,(MCS0)_2TX	9.39
802.11ax HEW40_Nss1,(MCS0)_2TX	6.73
802.11ax HEW80_Nss1,(MCS0)_2TX	0.49
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.88
802.11ax HEW20_Nss1,(MCS0)_2TX	8.82
802.11ax HEW40_Nss1,(MCS0)_2TX	6.51
802.11ax HEW80_Nss1,(MCS0)_2TX	2.81
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	7.75
802.11ax HEW20_Nss1,(MCS0)_2TX	7.63
802.11ax HEW40_Nss1,(MCS0)_2TX	5.47
802.11ax HEW80_Nss1,(MCS0)_2TX	0.37

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

Result

Mode	Result	DG	Port 1	Port 2	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.42	3.93	3.91	6.89	17.00
5200MHz	Pass	5.42	6.91	5.83	9.28	17.00
5240MHz	Pass	5.42	6.06	5.21	8.49	17.00
5260MHz	Pass	5.42	6.21	5.55	8.64	11.00
5300MHz	Pass	5.42	6.70	6.29	9.37	11.00
5320MHz	Pass	5.42	4.80	5.24	7.86	11.00
5500MHz	Pass	5.42	5.45	5.17	7.95	11.00
5580MHz	Pass	5.42	5.81	5.14	8.26	11.00
5700MHz	Pass	5.42	3.77	3.27	6.40	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.42	6.19	5.60	8.88	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.42	4.14	3.98	6.89	30.00
5745MHz	Pass	5.42	4.55	4.08	7.21	30.00
5785MHz	Pass	5.42	5.05	4.90	7.75	30.00
5825MHz	Pass	5.42	4.21	4.26	7.00	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.42	4.41	4.18	7.28	17.00
5200MHz	Pass	5.42	6.79	5.50	9.14	17.00
5240MHz	Pass	5.42	5.96	4.82	8.30	17.00
5260MHz	Pass	5.42	6.26	5.46	8.66	11.00
5300MHz	Pass	5.42	6.65	6.26	9.39	11.00
5320MHz	Pass	5.42	4.73	5.16	7.85	11.00
5500MHz	Pass	5.42	5.84	5.37	8.42	11.00
5580MHz	Pass	5.42	5.54	4.98	8.16	11.00
5700MHz	Pass	5.42	3.12	2.63	5.85	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.42	6.06	5.67	8.82	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.42	4.04	3.11	6.24	30.00
5745MHz	Pass	5.42	4.41	4.01	7.12	30.00
5785MHz	Pass	5.42	4.90	4.61	7.63	30.00
5825MHz	Pass	5.42	4.03	4.25	6.96	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.42	0.31	-0.28	3.01	17.00
5230MHz	Pass	5.42	3.87	2.76	6.19	17.00
5270MHz	Pass	5.42	4.18	3.51	6.73	11.00
5310MHz	Pass	5.42	1.14	1.14	4.08	11.00
5510MHz	Pass	5.42	1.40	0.46	3.81	11.00
5550MHz	Pass	5.42	4.08	2.65	6.28	11.00
5670MHz	Pass	5.42	0.78	0.70	3.75	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.42	3.83	3.23	6.51	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.42	1.06	-0.27	3.40	30.00
5755MHz	Pass	5.42	2.48	2.26	5.25	30.00
5795MHz	Pass	5.42	2.59	2.60	5.47	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.42	-2.54	-4.08	-0.31	17.00
5290MHz	Pass	5.42	-2.20	-2.84	0.49	11.00



PSD_Non-Beamforming_Indoor

Appendix D.1

5530MHz	Pass	5.42	-2.29	-4.14	-0.36	11.00
5610MHz	Pass	5.42	-1.70	-1.42	1.36	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.42	0.13	-0.47	2.81	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.42	-3.63	-4.15	-0.92	30.00
5775MHz	Pass	5.42	-2.38	-2.65	0.37	30.00

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;
Inf = There's no restriction for the limit.

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

29/12/2024

CF (Hz)
5.2G

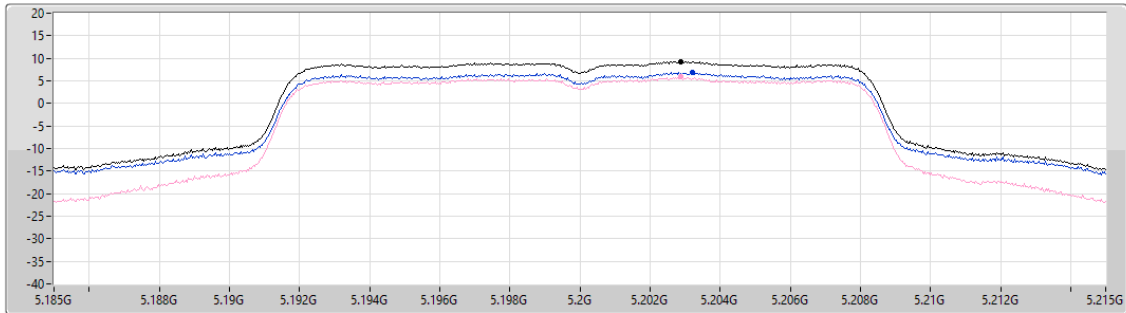
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.58

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.28	9.28	6.91	5.83

5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

29/12/2024

CF (Hz)
5.2G

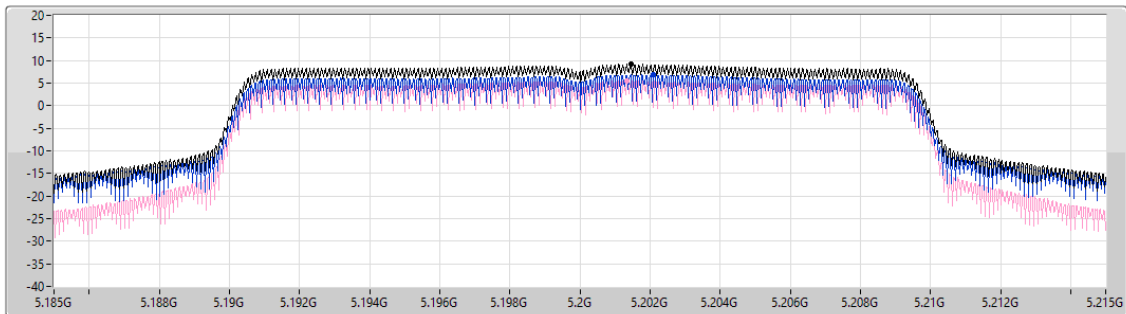
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.14	9.14	6.79	5.50

5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

29/12/2024

CF (Hz)
5.23G

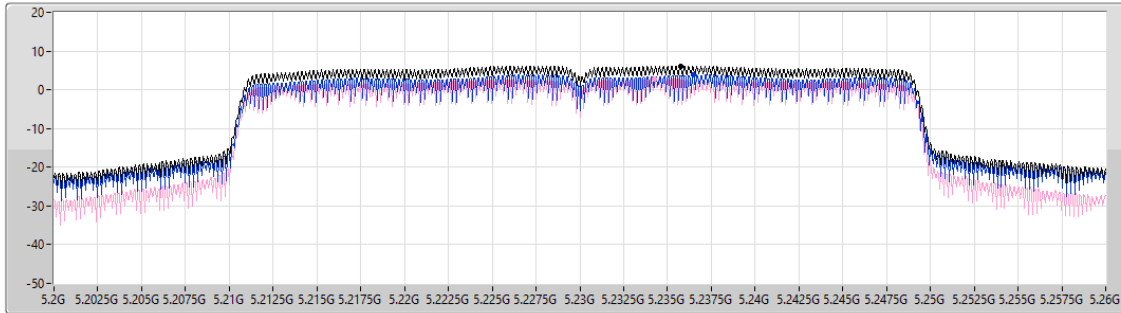
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.19	6.19	3.87	2.76

5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

29/12/2024

CF (Hz)
5.21G

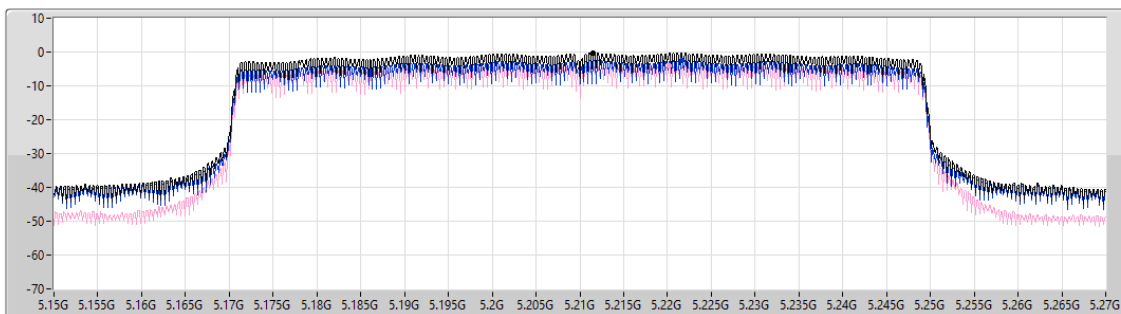
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.31	-0.31	-2.54	-4.08

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

29/12/2024

CF (Hz)
5.3G

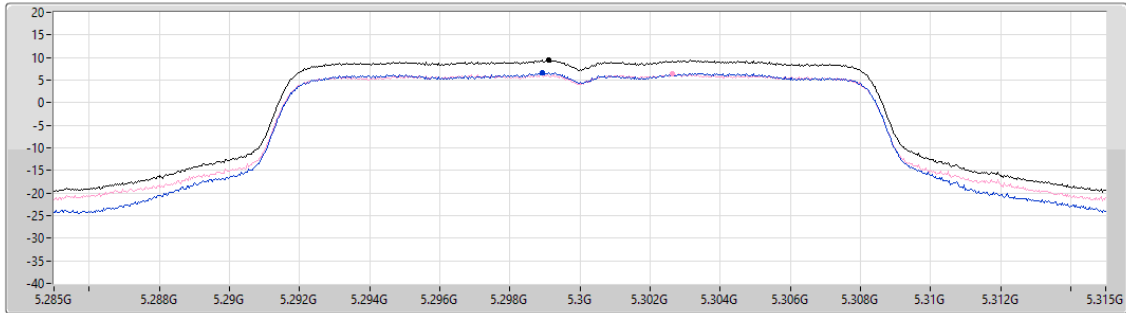
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.58

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.37	9.37	6.70	6.29

Sum ☒

Port 1 ☐

Port 2 ☐

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5300MHz

29/12/2024

CF (Hz)
5.3G

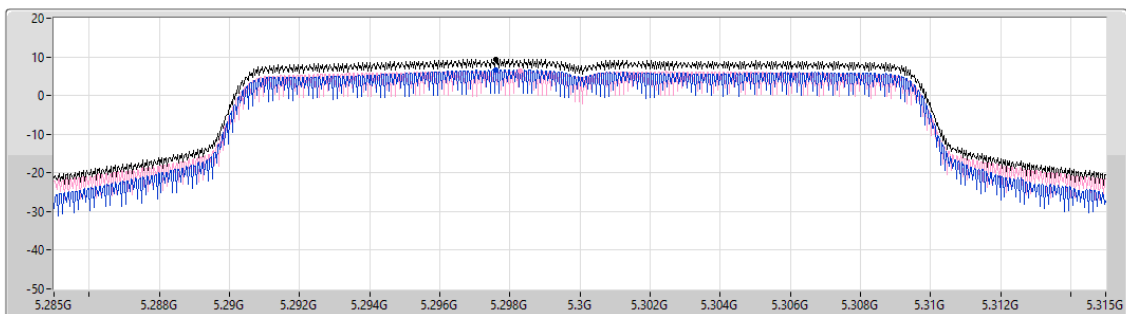
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
9.39	9.39	6.65	6.26

Sum ☒

Port 1 ☐

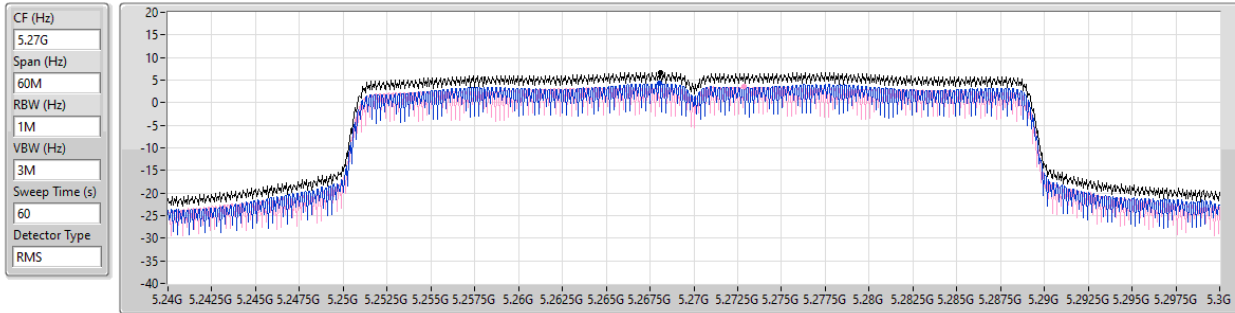
Port 2 ☐

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5270MHz

29/12/2024



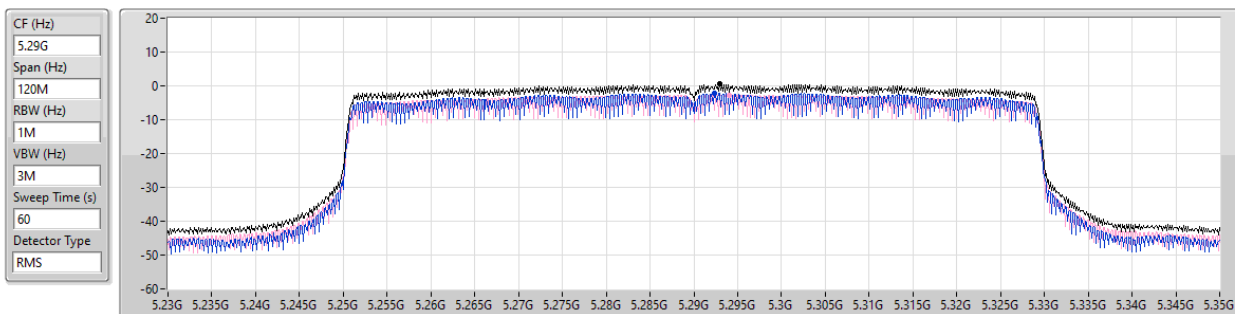
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.73	6.73	4.18	3.51

5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

PSD

5290MHz

29/12/2024



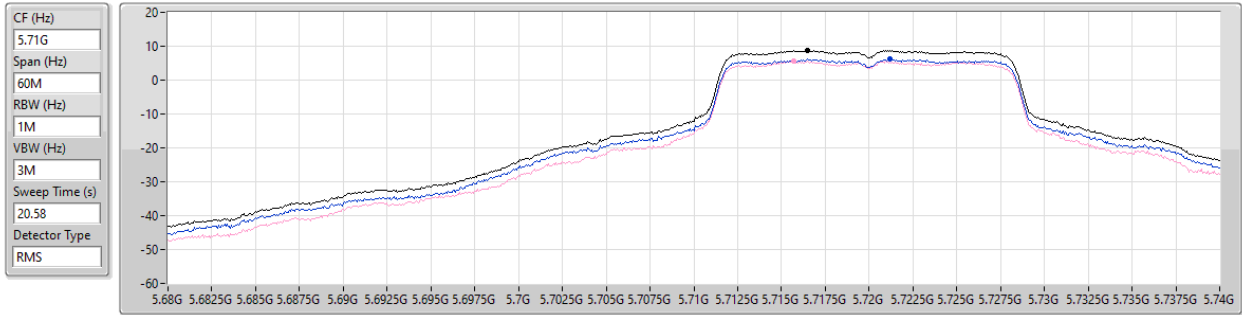
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.49	0.49	-2.20	-2.84

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

29/12/2024



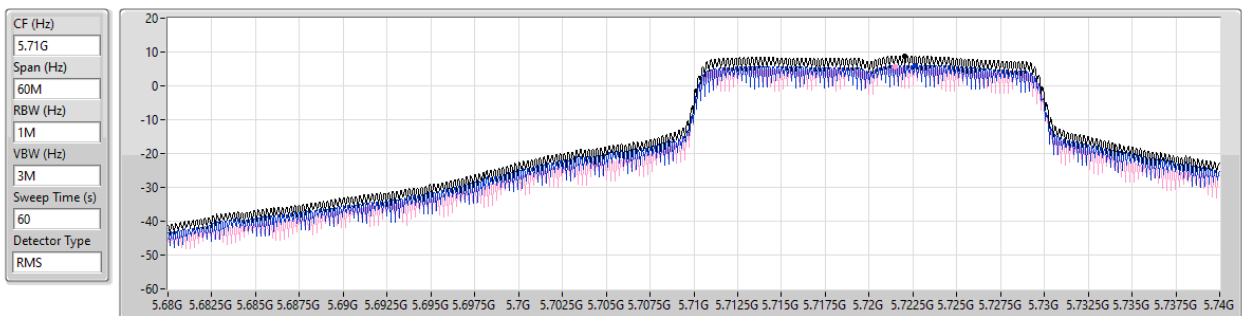
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.88	8.88	6.19	5.60

5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

29/12/2024



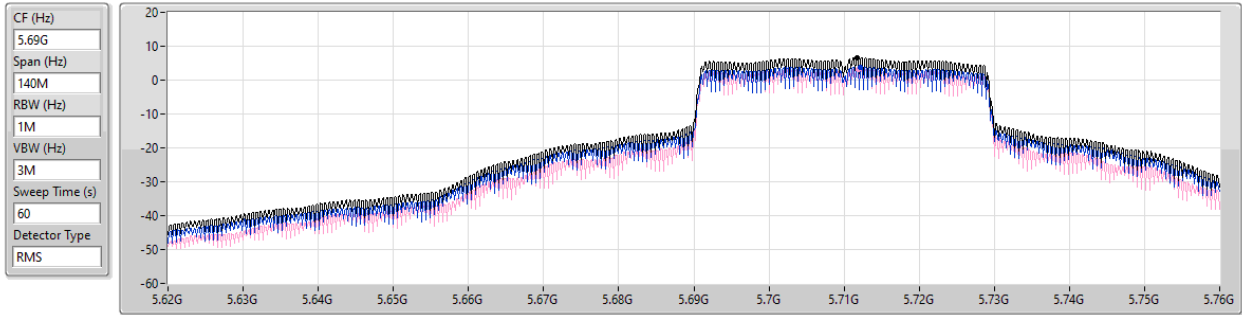
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.82	8.82	6.06	5.67

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

29/12/2024



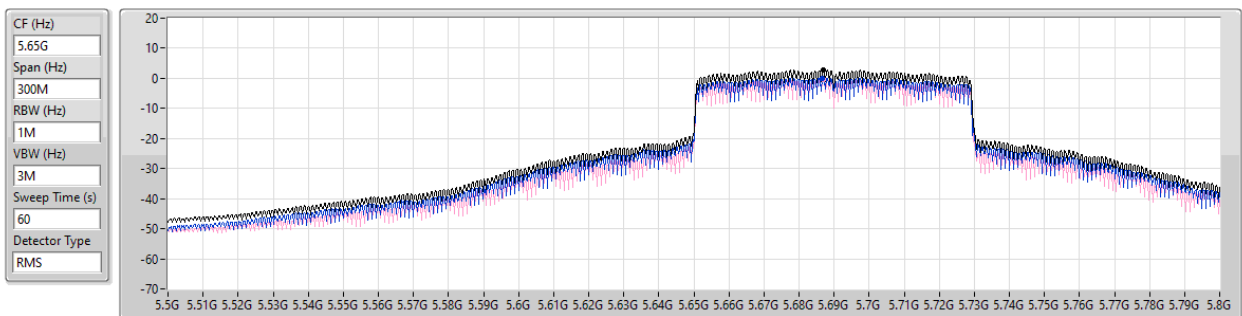
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.51	6.51	3.83	3.23

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

29/12/2024



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.81	2.81	0.13	-0.47

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

29/12/2024

CF (Hz)
5.785G

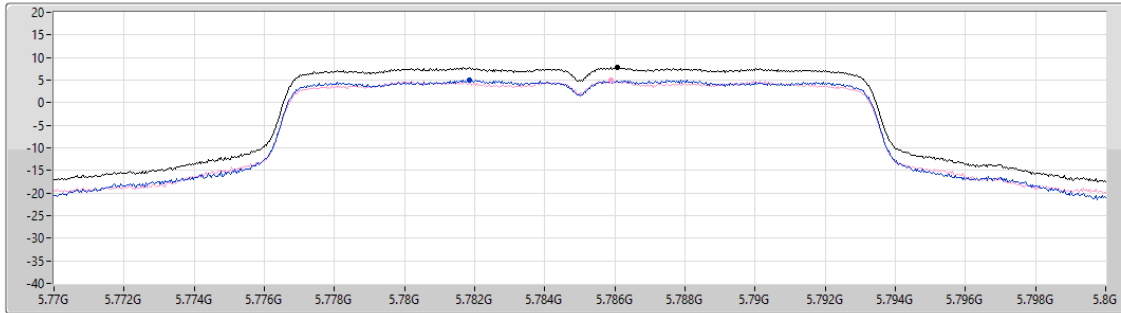
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20.58

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.75	7.75	5.05	4.90

Sum ☒

Port 1 ☒

Port 2 ☒

5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

29/12/2024

CF (Hz)
5.785G

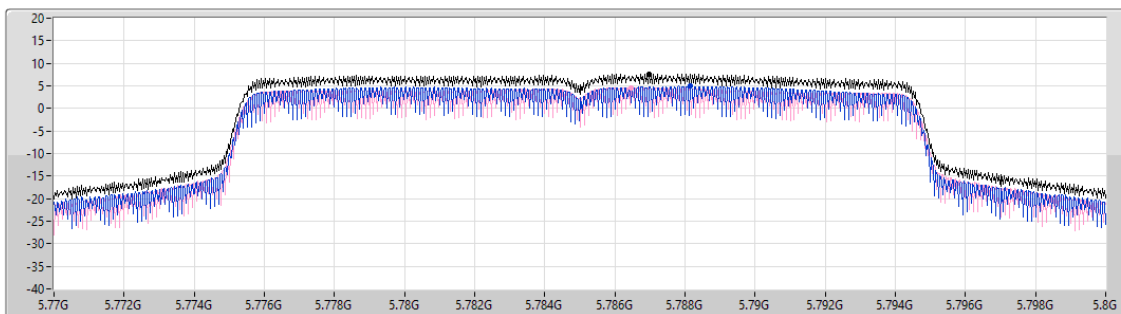
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
7.63	7.63	4.90	4.61

Sum ☒

Port 1 ☒

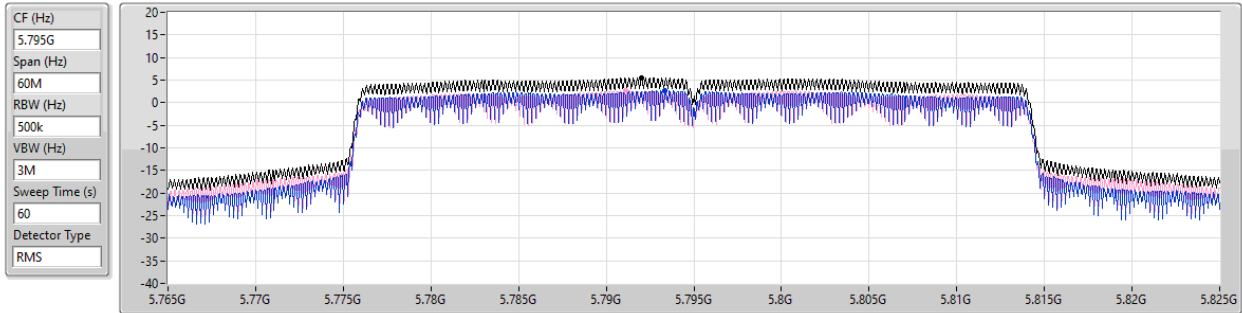
Port 2 ☒

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

29/12/2024



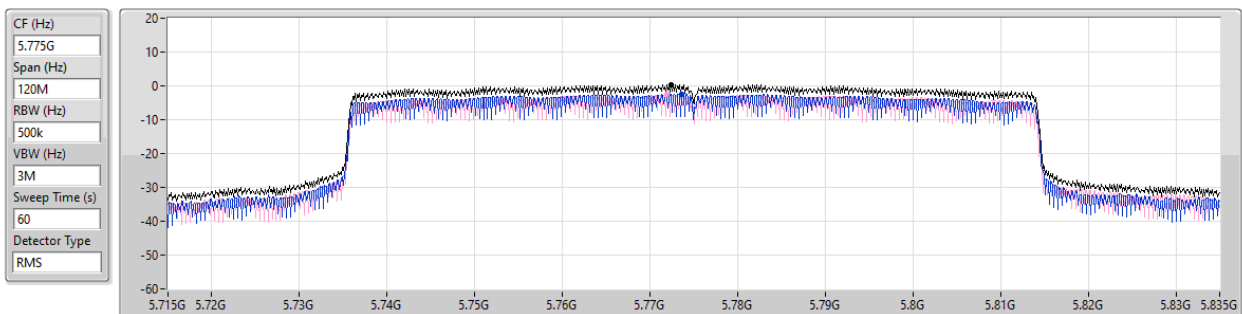
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.47	5.47	2.59	2.60

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

29/12/2024



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.37	0.37	-2.38	-2.65



Summary

Mode	PD
	(dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.95
802.11ax HEW20_Nss1,(MCS0)_2TX	8.78
802.11ax HEW40_Nss1,(MCS0)_2TX	5.98
802.11ax HEW80_Nss1,(MCS0)_2TX	-0.31
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	9.37
802.11ax HEW20_Nss1,(MCS0)_2TX	9.39
802.11ax HEW40_Nss1,(MCS0)_2TX	6.73
802.11ax HEW80_Nss1,(MCS0)_2TX	0.49
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	8.88
802.11ax HEW20_Nss1,(MCS0)_2TX	8.82
802.11ax HEW40_Nss1,(MCS0)_2TX	6.51
802.11ax HEW80_Nss1,(MCS0)_2TX	2.81
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_2TX	7.75
802.11ax HEW20_Nss1,(MCS0)_2TX	7.63
802.11ax HEW40_Nss1,(MCS0)_2TX	5.47
802.11ax HEW80_Nss1,(MCS0)_2TX	0.37

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

Result

Mode	Result	DG	Port 1	Port 2	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.42	3.93	3.91	6.89	17.00
5200MHz	Pass	5.42	6.28	5.78	8.95	17.00
5240MHz	Pass	5.42	5.58	4.84	8.05	17.00
5260MHz	Pass	5.42	6.21	5.55	8.64	11.00
5300MHz	Pass	5.42	6.70	6.29	9.37	11.00
5320MHz	Pass	5.42	4.80	5.24	7.86	11.00
5500MHz	Pass	5.42	5.45	5.17	7.95	11.00
5580MHz	Pass	5.42	5.81	5.14	8.26	11.00
5700MHz	Pass	5.42	3.77	3.27	6.40	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.42	6.19	5.60	8.88	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.42	4.14	3.98	6.89	30.00
5745MHz	Pass	5.42	4.55	4.08	7.21	30.00
5785MHz	Pass	5.42	5.05	4.90	7.75	30.00
5825MHz	Pass	5.42	4.21	4.26	7.00	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	5.42	4.41	4.18	7.28	17.00
5200MHz	Pass	5.42	6.19	5.47	8.78	17.00
5240MHz	Pass	5.42	5.96	4.82	8.30	17.00
5260MHz	Pass	5.42	6.26	5.46	8.66	11.00
5300MHz	Pass	5.42	6.65	6.26	9.39	11.00
5320MHz	Pass	5.42	4.73	5.16	7.85	11.00
5500MHz	Pass	5.42	5.84	5.37	8.42	11.00
5580MHz	Pass	5.42	5.54	4.98	8.16	11.00
5700MHz	Pass	5.42	3.12	2.63	5.85	11.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.42	6.06	5.67	8.82	11.00
5720MHz Straddle 5.725-5.85GHz	Pass	5.42	4.04	3.11	6.24	30.00
5745MHz	Pass	5.42	4.41	4.01	7.12	30.00
5785MHz	Pass	5.42	4.90	4.61	7.63	30.00
5825MHz	Pass	5.42	4.03	4.25	6.96	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	5.42	0.31	-0.28	3.01	17.00
5230MHz	Pass	5.42	3.51	2.73	5.98	17.00
5270MHz	Pass	5.42	4.18	3.51	6.73	11.00
5310MHz	Pass	5.42	1.14	1.14	4.08	11.00
5510MHz	Pass	5.42	1.40	0.46	3.81	11.00
5550MHz	Pass	5.42	4.08	2.65	6.28	11.00
5670MHz	Pass	5.42	0.78	0.70	3.75	11.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.42	3.83	3.23	6.51	11.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.42	1.06	-0.27	3.40	30.00
5755MHz	Pass	5.42	2.48	2.26	5.25	30.00
5795MHz	Pass	5.42	2.59	2.60	5.47	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	5.42	-2.54	-4.08	-0.31	17.00
5290MHz	Pass	5.42	-2.20	-2.84	0.49	11.00



PSD_Non-Beamforming_Outdoor

Appendix D.2

5530MHz	Pass	5.42	-2.29	-4.14	-0.36	11.00
5610MHz	Pass	5.42	-1.70	-1.42	1.36	11.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.42	0.13	-0.47	2.81	11.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.42	-3.63	-4.15	-0.92	30.00
5775MHz	Pass	5.42	-2.38	-2.65	0.37	30.00

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;
Inf = There's no restriction for the limit.

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

08/01/2025

CF (Hz)
5.2G

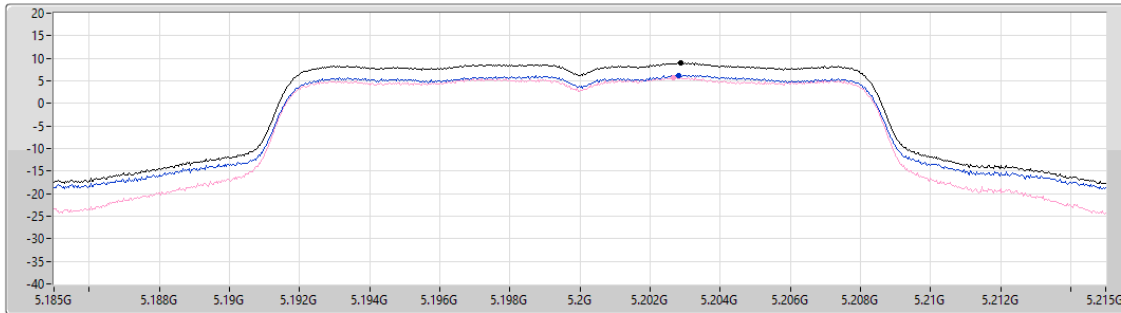
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.58

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
8.95	8.95	6.28	5.78

5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5200MHz

08/01/2025

CF (Hz)
5.2G

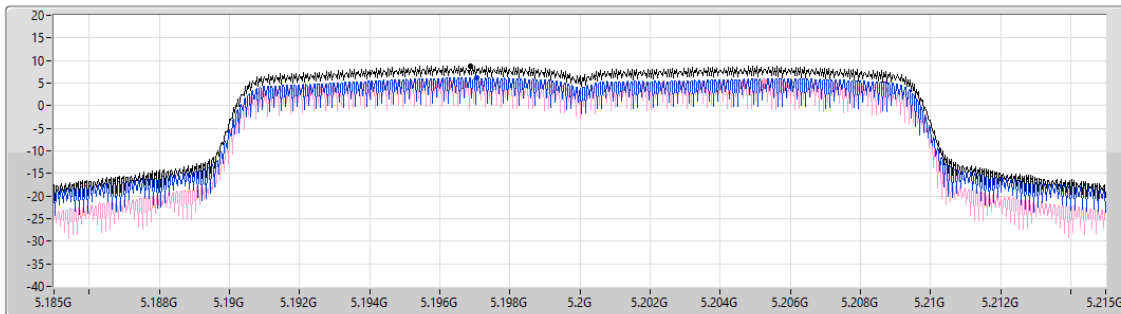
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum ☒

Port 1 ☒

Port 2 ☒

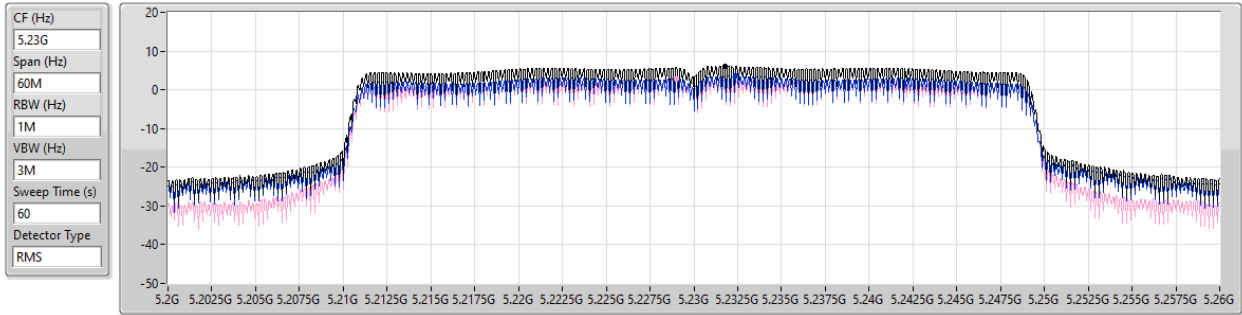
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
8.78	8.78	6.19	5.47

5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5230MHz

08/01/2025



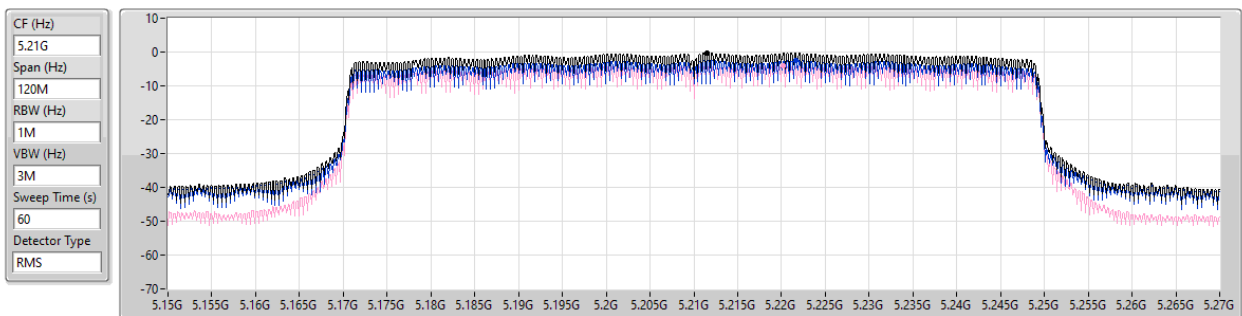
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.98	5.98	3.51	2.73

5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

PSD

5210MHz

29/12/2024



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-0.31	-0.31	-2.54	-4.08

5.25-5.35GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5300MHz

29/12/2024

CF (Hz)
5.3G

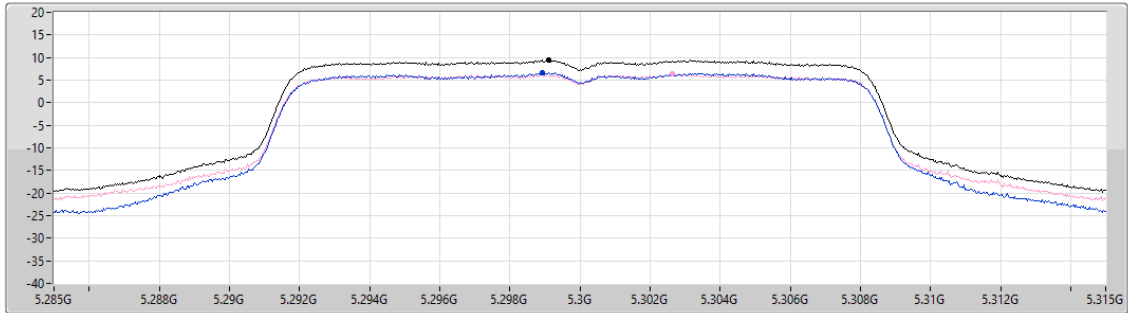
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.58

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.37	9.37	6.70	6.29

Sum ☒

Port 1 ☐

Port 2 ☐

5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5300MHz

29/12/2024

CF (Hz)
5.3G

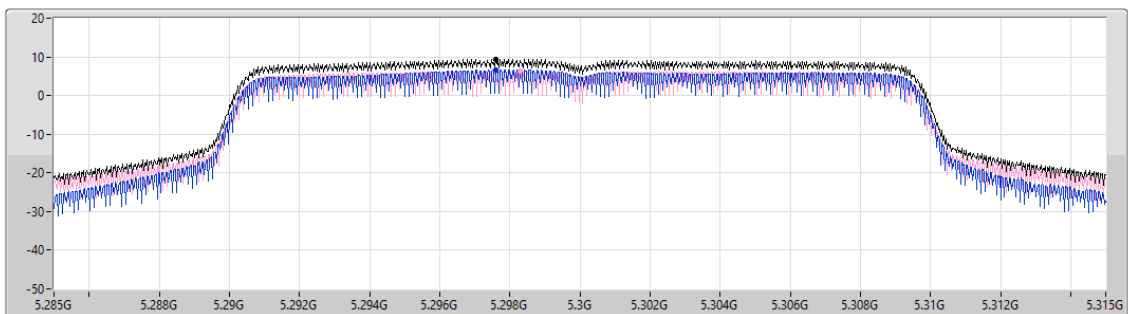
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.39	9.39	6.65	6.26

Sum ☒

Port 1 ☐

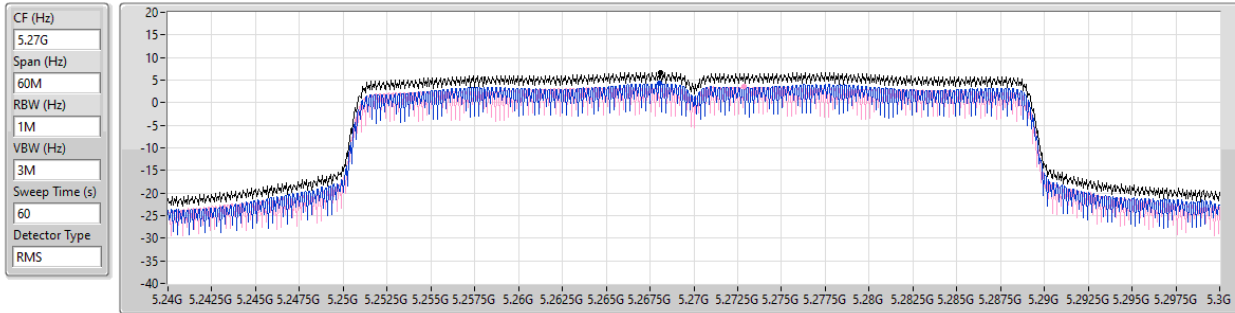
Port 2 ☐

5.25-5.35GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

PSD

5270MHz

29/12/2024



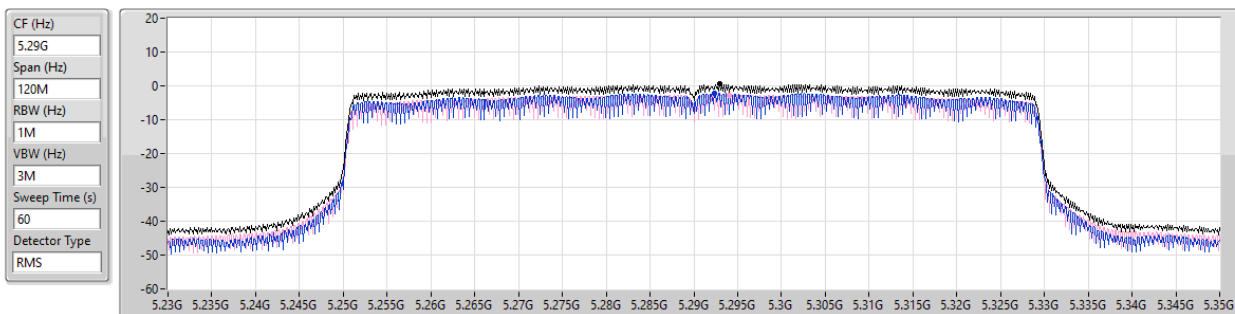
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
6.73	6.73	4.18	3.51

5.25-5.35GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

PSD

5290MHz

29/12/2024



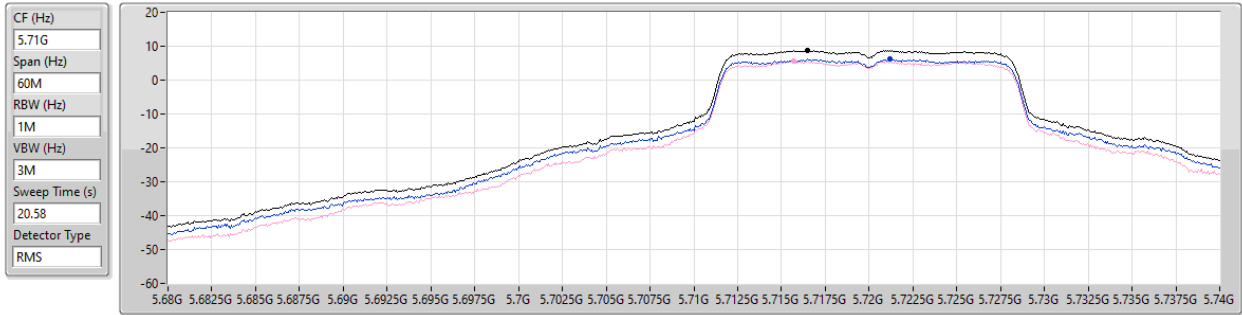
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.49	0.49	-2.20	-2.84

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

29/12/2024



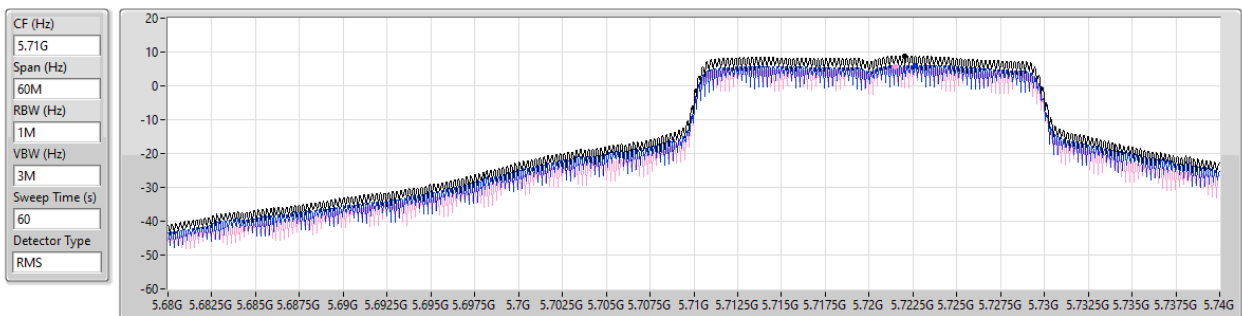
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.88	8.88	6.19	5.60

5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

29/12/2024



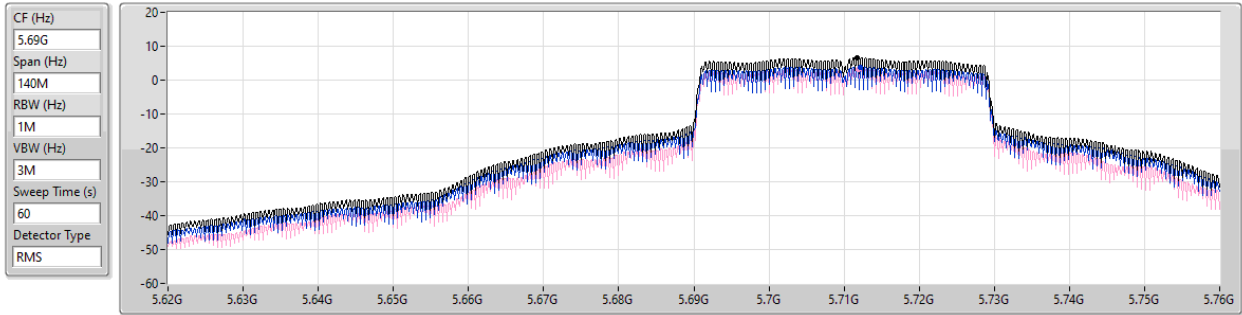
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
8.82	8.82	6.06	5.67

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5710MHz Straddle 5.47-5.725GHz

29/12/2024



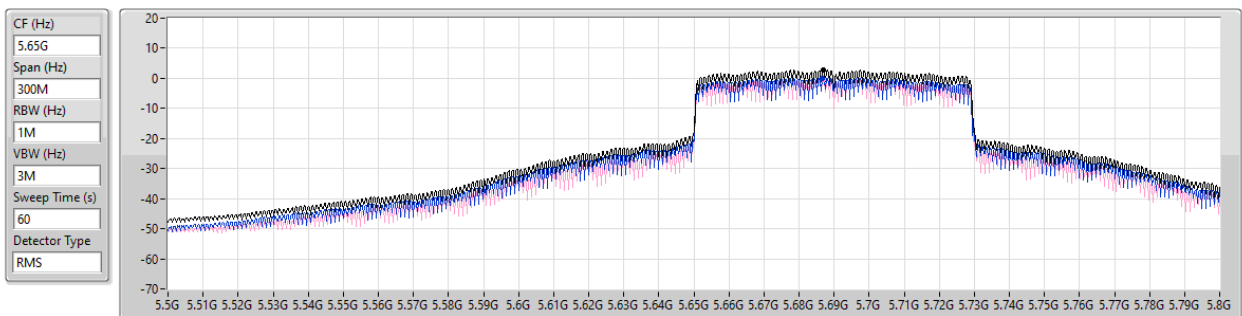
Sum	PD	Port 1	Port 2
(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)
6.51	6.51	3.83	3.23

5.47-5.725GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5690MHz Straddle 5.47-5.725GHz

29/12/2024



Sum	PD	Port 1	Port 2
(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)	(dBm/100Hz)
2.81	2.81	0.13	-0.47

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5785MHz

29/12/2024

CF (Hz)
5.785G

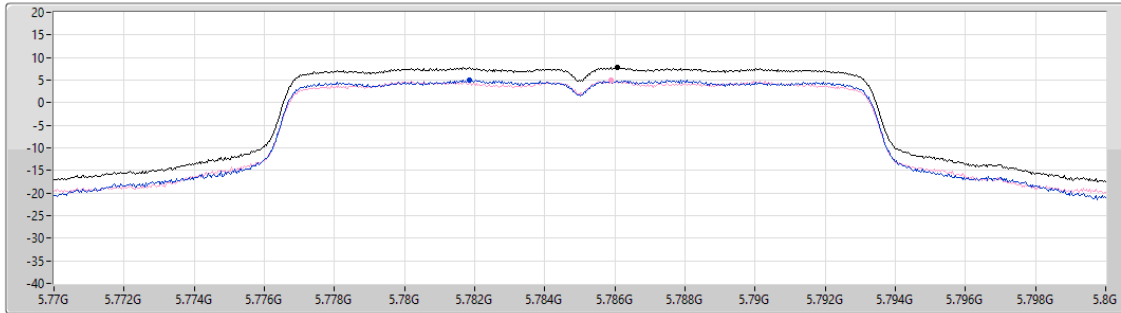
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20.58

Detector Type
RMS



Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
7.75	7.75	5.05	4.90

Sum ☒

Port 1 ☒

Port 2 ☒

5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5785MHz

29/12/2024

CF (Hz)
5.785G

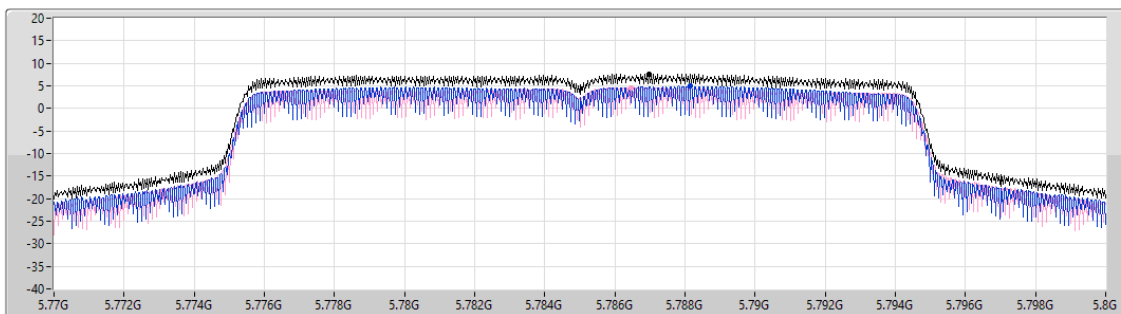
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
7.63	7.63	4.90	4.61

Sum ☒

Port 1 ☒

Port 2 ☒

5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

5795MHz

29/12/2024

CF (Hz)
5.795G

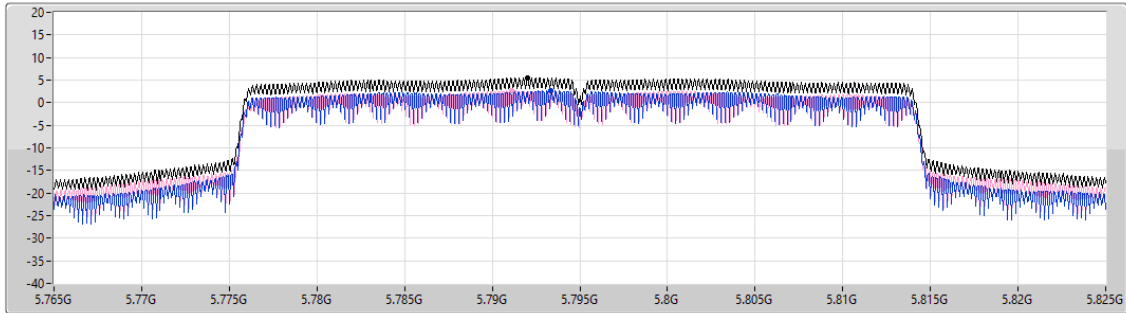
Span (Hz)
60M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
5.47	5.47	2.59	2.60

Sum ☐

Port 1 ☐

Port 2 ☐

5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

PSD

5775MHz

29/12/2024

CF (Hz)
5.775G

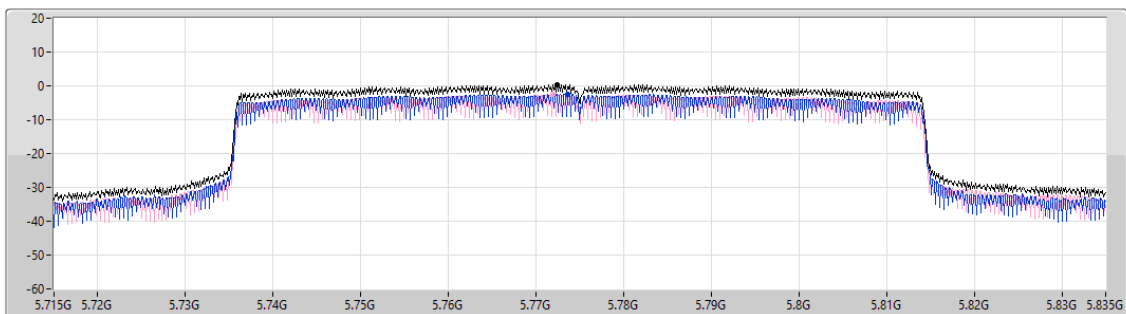
Span (Hz)
120M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.37	0.37	-2.38	-2.65

Sum ☐

Port 1 ☐

Port 2 ☐



Summary

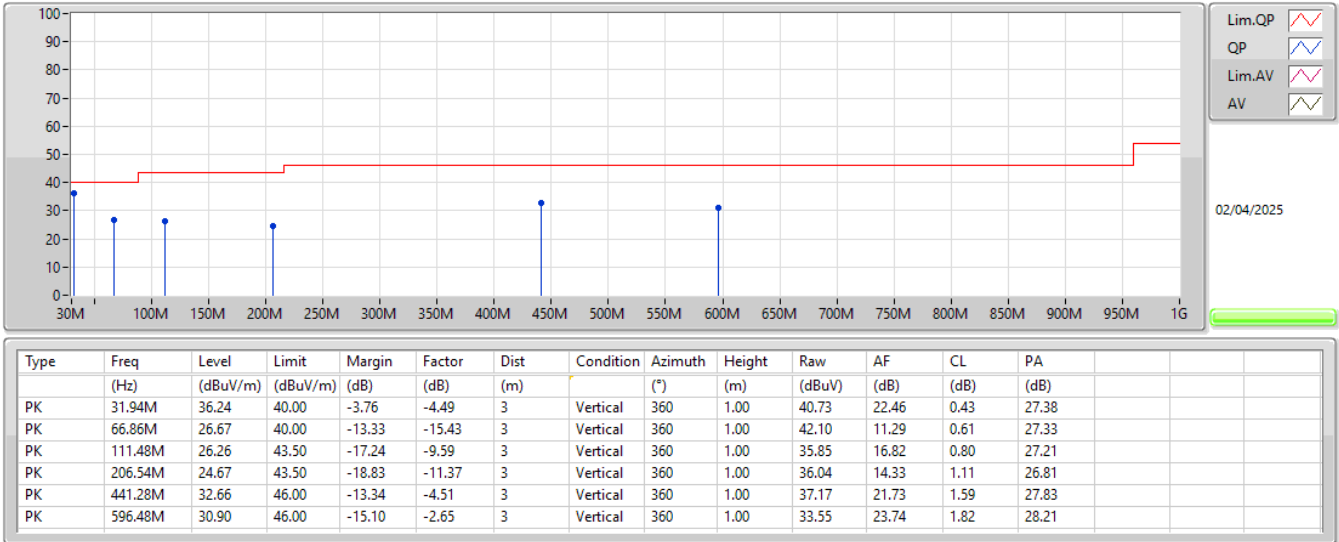
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	31.94M	36.24	40.00	-3.76	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5775MHz;Car charger	Pass	PK	68.8M	25.26	40.00	-14.74	3	Vertical	0	1.00
5775MHz;Car charger	Pass	PK	227.88M	37.85	46.00	-8.15	3	Vertical	0	1.00
5775MHz;Car charger	Pass	PK	299.66M	30.16	46.00	-15.84	3	Vertical	0	1.00
5775MHz;Car charger	Pass	PK	435.46M	34.10	46.00	-11.90	3	Vertical	0	1.00
5775MHz;Car charger	Pass	PK	710.94M	30.52	46.00	-15.48	3	Vertical	0	1.00
5775MHz;Car charger	Pass	PK	747.8M	30.52	46.00	-15.48	3	Vertical	0	1.00
5775MHz;Car charger	Pass	PK	227.88M	32.59	46.00	-13.41	3	Horizontal	360	1.00
5775MHz;Car charger	Pass	PK	293.84M	29.53	46.00	-16.47	3	Horizontal	360	1.00
5775MHz;Car charger	Pass	PK	433.52M	35.57	46.00	-10.43	3	Horizontal	360	1.00
5775MHz;Car charger	Pass	PK	524.7M	27.54	46.00	-18.46	3	Horizontal	360	1.00
5775MHz;Car charger	Pass	PK	709M	35.55	46.00	-10.45	3	Horizontal	360	1.00
5775MHz;Car charger	Pass	PK	960M	28.95	46.00	-17.05	3	Horizontal	360	1.00
5775MHz;Adapter	Pass	PK	31.94M	36.24	40.00	-3.76	3	Vertical	360	1.00
5775MHz;Adapter	Pass	PK	66.86M	26.67	40.00	-13.33	3	Vertical	360	1.00
5775MHz;Adapter	Pass	PK	111.48M	26.26	43.50	-17.24	3	Vertical	360	1.00
5775MHz;Adapter	Pass	PK	206.54M	24.67	43.50	-18.83	3	Vertical	360	1.00
5775MHz;Adapter	Pass	PK	441.28M	32.66	46.00	-13.34	3	Vertical	360	1.00
5775MHz;Adapter	Pass	PK	596.48M	30.90	46.00	-15.10	3	Vertical	360	1.00
5775MHz;Adapter	Pass	PK	31.94M	27.27	40.00	-12.73	3	Horizontal	0	1.00
5775MHz;Adapter	Pass	PK	107.6M	28.54	43.50	-14.96	3	Horizontal	0	1.00
5775MHz;Adapter	Pass	PK	206.54M	33.36	43.50	-10.14	3	Horizontal	0	1.00
5775MHz;Adapter	Pass	PK	332.64M	29.30	46.00	-16.70	3	Horizontal	0	1.00
5775MHz;Adapter	Pass	PK	435.46M	33.07	46.00	-12.93	3	Horizontal	0	1.00
5775MHz;Adapter	Pass	PK	652.74M	29.79	46.00	-16.21	3	Horizontal	0	1.00

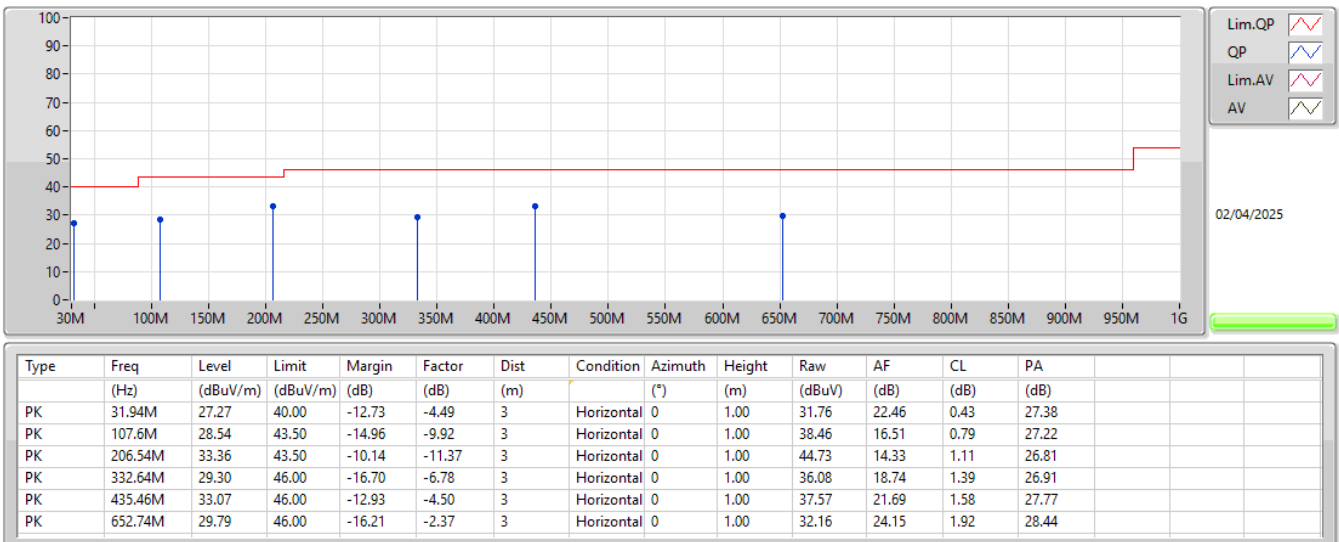
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_Adapter



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_Adapter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.148G	51.87	54.00	-2.13	3	Horizontal	306	2.47
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	5.1456G	52.30	54.00	-1.70	3	Horizontal	307	2.48
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.1456G	51.72	54.00	-2.28	3	Horizontal	307	2.47
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	5.15G	52.59	54.00	-1.41	3	Horizontal	306	1.49
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	AV	5.3514G	53.86	54.00	-0.14	3	Horizontal	304	1.55
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	5.3528G	52.69	54.00	-1.31	3	Horizontal	305	1.68
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.354G	53.49	54.00	-0.51	3	Horizontal	304	1.70
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	5.354G	53.84	54.00	-0.16	3	Horizontal	305	1.55
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.7276G	66.37	68.20	-1.83	3	Horizontal	306	2.46
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	5.47G	67.65	68.20	-0.55	3	Horizontal	304	2.49
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.4628G	67.46	68.20	-0.74	3	Horizontal	304	2.72
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	5.727G	67.54	68.20	-0.66	3	Horizontal	306	2.44
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	5.963G	62.73	68.20	-5.47	3	Horizontal	303	2.48
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	5.9534G	62.98	68.20	-5.22	3	Horizontal	302	2.38
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.9522G	63.04	68.20	-5.16	3	Horizontal	302	2.41
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	5.6454G	67.43	68.20	-0.77	3	Horizontal	303	2.30

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.148G	51.87	54.00	-2.13	3	Horizontal	306	2.47
5180MHz	Pass	AV	5.1826G	103.33	Inf	-Inf	3	Horizontal	306	2.47
5180MHz	Pass	PK	5.148G	66.69	74.00	-7.31	3	Horizontal	306	2.47
5180MHz	Pass	PK	5.1822G	113.30	Inf	-Inf	3	Horizontal	306	2.47
5180MHz	Pass	PK	10.35972G	50.75	68.20	-17.45	3	Vertical	152	2.17
5180MHz	Pass	PK	10.3696G	50.67	68.20	-17.53	3	Horizontal	114	1.85
5200MHz	Pass	AV	5.15G	49.85	54.00	-4.15	3	Horizontal	305	2.29
5200MHz	Pass	AV	5.2008G	105.22	Inf	-Inf	3	Horizontal	305	2.29
5200MHz	Pass	PK	5.1488G	64.21	74.00	-9.79	3	Horizontal	305	2.29
5200MHz	Pass	PK	5.2008G	115.19	Inf	-Inf	3	Horizontal	305	2.29
5200MHz	Pass	PK	10.39552G	51.14	68.20	-17.06	3	Vertical	154	1.50
5200MHz	Pass	PK	10.3998G	52.14	68.20	-16.06	3	Horizontal	137	2.88
5240MHz	Pass	AV	5.1458G	46.61	54.00	-7.39	3	Horizontal	304	1.63
5240MHz	Pass	AV	5.243G	104.86	Inf	-Inf	3	Horizontal	304	1.63
5240MHz	Pass	AV	5.3762G	48.50	54.00	-5.50	3	Horizontal	304	1.63
5240MHz	Pass	PK	5.138G	59.63	74.00	-14.37	3	Horizontal	304	1.63
5240MHz	Pass	PK	5.243G	114.90	Inf	-Inf	3	Horizontal	304	1.63
5240MHz	Pass	PK	5.3516G	61.13	74.00	-12.87	3	Horizontal	304	1.63
5240MHz	Pass	PK	10.4776G	50.84	68.20	-17.36	3	Vertical	220	1.36
5240MHz	Pass	PK	10.483G	50.40	68.20	-17.80	3	Horizontal	109	1.77
5260MHz	Pass	AV	5.14G	45.82	54.00	-8.18	3	Horizontal	306	1.60
5260MHz	Pass	AV	5.263G	105.29	Inf	-Inf	3	Horizontal	306	1.60
5260MHz	Pass	AV	5.353G	47.79	54.00	-6.21	3	Horizontal	306	1.60
5260MHz	Pass	PK	5.1436G	58.78	74.00	-15.22	3	Horizontal	306	1.60
5260MHz	Pass	PK	5.263G	115.34	Inf	-Inf	3	Horizontal	306	1.60
5260MHz	Pass	PK	5.3632G	60.53	74.00	-13.47	3	Horizontal	306	1.60
5260MHz	Pass	PK	10.52884G	51.80	68.20	-16.40	3	Vertical	147	1.28
5260MHz	Pass	PK	10.5154G	50.57	68.20	-17.63	3	Horizontal	172	2.78
5300MHz	Pass	AV	5.2948G	105.95	Inf	-Inf	3	Horizontal	306	1.58
5300MHz	Pass	AV	5.35G	48.39	54.00	-5.61	3	Horizontal	306	1.58
5300MHz	Pass	PK	5.3048G	116.32	Inf	-Inf	3	Horizontal	306	1.58
5300MHz	Pass	PK	5.35G	61.05	74.00	-12.95	3	Horizontal	306	1.58
5300MHz	Pass	PK	10.60416G	52.39	74.00	-21.61	3	Vertical	151	1.31
5300MHz	Pass	PK	10.597G	50.86	68.20	-17.34	3	Horizontal	170	1.50
5320MHz	Pass	AV	5.3228G	105.68	Inf	-Inf	3	Horizontal	304	1.55
5320MHz	Pass	AV	5.3514G	53.86	54.00	-0.14	3	Horizontal	304	1.55
5320MHz	Pass	PK	5.322G	115.92	Inf	-Inf	3	Horizontal	304	1.55
5320MHz	Pass	PK	5.351G	67.06	74.00	-6.94	3	Horizontal	304	1.55
5320MHz	Pass	AV	10.63992G	39.04	54.00	-14.96	3	Vertical	147	1.50
5320MHz	Pass	PK	10.63068G	51.93	74.00	-22.07	3	Vertical	147	1.50
5320MHz	Pass	AV	10.64756G	39.19	54.00	-14.81	3	Horizontal	105	1.00
5320MHz	Pass	PK	10.64692G	51.65	74.00	-22.35	3	Horizontal	105	1.00
5500MHz	Pass	AV	5.4584G	49.12	54.00	-4.88	3	Horizontal	304	2.71
5500MHz	Pass	AV	5.5032G	106.15	Inf	-Inf	3	Horizontal	304	2.71
5500MHz	Pass	PK	5.4582G	62.86	74.00	-11.14	3	Horizontal	304	2.71
5500MHz	Pass	PK	5.468G	66.05	68.20	-2.15	3	Horizontal	304	2.71
5500MHz	Pass	PK	5.4988G	117.33	Inf	-Inf	3	Horizontal	304	2.71
5500MHz	Pass	AV	10.99444G	39.14	54.00	-14.86	3	Vertical	142	2.99
5500MHz	Pass	PK	11.00476G	51.01	74.00	-22.99	3	Vertical	142	2.99
5500MHz	Pass	AV	10.99516G	39.41	54.00	-14.59	3	Horizontal	32	1.56
5500MHz	Pass	PK	10.9948G	51.04	74.00	-22.96	3	Horizontal	32	1.56
5580MHz	Pass	AV	5.4552G	46.60	54.00	-7.40	3	Horizontal	305	2.56
5580MHz	Pass	AV	5.5836G	105.55	Inf	-Inf	3	Horizontal	305	2.56
5580MHz	Pass	PK	5.4534G	59.75	74.00	-14.25	3	Horizontal	305	2.56
5580MHz	Pass	PK	5.466G	59.71	68.20	-8.49	3	Horizontal	305	2.56
5580MHz	Pass	PK	5.5782G	115.73	Inf	-Inf	3	Horizontal	305	2.56
5580MHz	Pass	PK	5.7258G	60.22	68.20	-7.98	3	Horizontal	305	2.56
5580MHz	Pass	AV	11.15976G	39.28	54.00	-14.72	3	Vertical	145	1.27
5580MHz	Pass	PK	11.1554G	51.81	74.00	-22.19	3	Vertical	145	1.27
5580MHz	Pass	AV	11.15724G	39.72	54.00	-14.28	3	Horizontal	28	2.43

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5580MHz	Pass	PK	11.15352G	51.61	74.00	-22.39	3	Horizontal	28	2.43
5700MHz	Pass	AV	5.7032G	104.93	Inf	-Inf	3	Horizontal	306	2.46
5700MHz	Pass	PK	5.6984G	114.91	Inf	-Inf	3	Horizontal	306	2.46
5700MHz	Pass	PK	5.7276G	66.37	68.20	-1.83	3	Horizontal	306	2.46
5700MHz	Pass	AV	11.39692G	39.63	54.00	-14.37	3	Vertical	138	1.48
5700MHz	Pass	PK	11.40828G	51.99	74.00	-22.01	3	Vertical	138	1.48
5700MHz	Pass	AV	11.39972G	40.08	54.00	-13.92	3	Horizontal	32	1.27
5700MHz	Pass	PK	11.40932G	51.70	74.00	-22.30	3	Horizontal	32	1.27
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4356G	46.48	54.00	-7.52	3	Horizontal	302	2.35
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7188G	107.35	Inf	-Inf	3	Horizontal	302	2.35
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4428G	59.55	74.00	-14.45	3	Horizontal	302	2.35
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4608G	58.53	68.20	-9.67	3	Horizontal	302	2.35
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7188G	117.53	Inf	-Inf	3	Horizontal	302	2.35
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9792G	62.17	68.20	-6.03	3	Horizontal	302	2.35
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44232G	39.71	54.00	-14.29	3	Vertical	138	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44432G	51.71	74.00	-22.29	3	Vertical	138	1.50
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43848G	41.02	54.00	-12.98	3	Horizontal	29	2.14
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44988G	52.01	74.00	-21.99	3	Horizontal	29	2.14
5745MHz	Pass	AV	5.445G	46.47	54.00	-7.53	3	Horizontal	303	2.45
5745MHz	Pass	AV	5.7462G	107.34	Inf	-Inf	3	Horizontal	303	2.45
5745MHz	Pass	PK	5.5362G	60.12	68.20	-8.08	3	Horizontal	303	2.45
5745MHz	Pass	PK	5.7414G	117.85	Inf	-Inf	3	Horizontal	303	2.45
5745MHz	Pass	PK	6.021G	62.67	68.20	-5.53	3	Horizontal	303	2.45
5745MHz	Pass	AV	11.493G	39.86	54.00	-14.14	3	Vertical	137	1.65
5745MHz	Pass	PK	11.48812G	51.64	74.00	-22.36	3	Vertical	137	1.65
5745MHz	Pass	AV	11.48944G	40.25	54.00	-13.75	3	Horizontal	30	1.36
5745MHz	Pass	PK	11.49088G	51.71	74.00	-22.29	3	Horizontal	30	1.36
5785MHz	Pass	AV	5.78855G	108.23	Inf	-Inf	3	Horizontal	303	2.40
5785MHz	Pass	PK	5.59616G	59.97	68.20	-8.23	3	Horizontal	303	2.40
5785MHz	Pass	PK	5.78855G	118.30	Inf	-Inf	3	Horizontal	303	2.40
5785MHz	Pass	PK	6.07048G	62.36	68.20	-5.84	3	Horizontal	303	2.40
5785MHz	Pass	AV	11.56928G	39.50	54.00	-14.50	3	Vertical	286	1.50
5785MHz	Pass	PK	11.56772G	51.66	74.00	-22.34	3	Vertical	286	1.50
5785MHz	Pass	AV	11.56784G	39.88	54.00	-14.12	3	Horizontal	138	1.50
5785MHz	Pass	PK	11.56632G	52.33	74.00	-21.67	3	Horizontal	138	1.50
5825MHz	Pass	AV	5.8286G	107.01	Inf	-Inf	3	Horizontal	303	2.48
5825MHz	Pass	PK	5.6258G	60.70	68.20	-7.50	3	Horizontal	303	2.48
5825MHz	Pass	PK	5.8286G	117.15	Inf	-Inf	3	Horizontal	303	2.48
5825MHz	Pass	PK	5.963G	62.73	68.20	-5.47	3	Horizontal	303	2.48
5825MHz	Pass	AV	11.64996G	39.46	54.00	-14.54	3	Vertical	124	2.42
5825MHz	Pass	PK	11.64988G	51.23	74.00	-22.77	3	Vertical	124	2.42
5825MHz	Pass	AV	11.64804G	39.12	54.00	-14.88	3	Horizontal	148	1.57
5825MHz	Pass	PK	11.64296G	50.90	74.00	-23.10	3	Horizontal	148	1.57
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1456G	52.30	54.00	-1.70	3	Horizontal	307	2.48
5180MHz	Pass	AV	5.1846G	102.51	Inf	-Inf	3	Horizontal	307	2.48
5180MHz	Pass	PK	5.144G	66.59	74.00	-7.41	3	Horizontal	307	2.48
5180MHz	Pass	PK	5.1752G	115.68	Inf	-Inf	3	Horizontal	307	2.48
5180MHz	Pass	PK	10.35992G	51.33	68.20	-16.87	3	Vertical	153	2.18
5180MHz	Pass	PK	10.3612G	50.84	68.20	-17.36	3	Horizontal	113	1.68
5200MHz	Pass	AV	5.15G	50.48	54.00	-3.52	3	Horizontal	306	2.69
5200MHz	Pass	AV	5.1988G	104.48	Inf	-Inf	3	Horizontal	306	2.69
5200MHz	Pass	PK	5.15G	62.92	74.00	-11.08	3	Horizontal	306	2.69
5200MHz	Pass	PK	5.1992G	118.42	Inf	-Inf	3	Horizontal	306	2.69
5200MHz	Pass	PK	10.40048G	51.46	68.20	-16.74	3	Vertical	152	2.16
5200MHz	Pass	PK	10.39468G	50.61	68.20	-17.59	3	Horizontal	110	1.75
5240MHz	Pass	AV	5.1428G	46.16	54.00	-7.84	3	Horizontal	305	2.59
5240MHz	Pass	AV	5.2388G	103.29	Inf	-Inf	3	Horizontal	305	2.59
5240MHz	Pass	AV	5.3762G	47.62	54.00	-6.38	3	Horizontal	305	2.59
5240MHz	Pass	PK	5.1326G	60.09	74.00	-13.91	3	Horizontal	305	2.59
5240MHz	Pass	PK	5.2388G	116.62	Inf	-Inf	3	Horizontal	305	2.59
5240MHz	Pass	PK	5.3852G	60.63	74.00	-13.37	3	Horizontal	305	2.59

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5240MHz	Pass	PK	10.48708G	51.22	68.20	-16.98	3	Vertical	144	1.65
5240MHz	Pass	PK	10.48348G	50.26	68.20	-17.94	3	Horizontal	101	1.18
5260MHz	Pass	AV	5.1496G	45.45	54.00	-8.55	3	Horizontal	305	2.52
5260MHz	Pass	AV	5.2636G	103.69	Inf	-Inf	3	Horizontal	305	2.52
5260MHz	Pass	AV	5.3596G	46.94	54.00	-7.06	3	Horizontal	305	2.52
5260MHz	Pass	PK	5.1484G	58.38	74.00	-15.62	3	Horizontal	305	2.52
5260MHz	Pass	PK	5.263G	116.62	Inf	-Inf	3	Horizontal	305	2.52
5260MHz	Pass	PK	5.3578G	60.61	74.00	-13.39	3	Horizontal	305	2.52
5260MHz	Pass	PK	10.51608G	50.19	68.20	-18.01	3	Vertical	147	1.48
5260MHz	Pass	PK	10.52592G	50.46	68.20	-17.74	3	Horizontal	100	1.50
5300MHz	Pass	AV	5.3044G	104.95	Inf	-Inf	3	Horizontal	304	1.68
5300MHz	Pass	AV	5.3544G	47.59	54.00	-6.41	3	Horizontal	304	1.68
5300MHz	Pass	PK	5.3056G	118.41	Inf	-Inf	3	Horizontal	304	1.68
5300MHz	Pass	PK	5.3536G	60.82	74.00	-13.18	3	Horizontal	304	1.68
5300MHz	Pass	PK	10.59364G	50.58	68.20	-17.62	3	Vertical	146	2.11
5300MHz	Pass	AV	10.60352G	38.33	54.00	-15.67	3	Horizontal	312	1.50
5300MHz	Pass	PK	10.59868G	50.69	68.20	-17.51	3	Horizontal	312	1.50
5320MHz	Pass	AV	5.3248G	104.14	Inf	-Inf	3	Horizontal	305	1.68
5320MHz	Pass	AV	5.3528G	52.69	54.00	-1.31	3	Horizontal	305	1.68
5320MHz	Pass	PK	5.3144G	118.44	Inf	-Inf	3	Horizontal	305	1.68
5320MHz	Pass	PK	5.3532G	67.78	74.00	-6.22	3	Horizontal	305	1.68
5320MHz	Pass	AV	10.63988G	38.76	54.00	-15.24	3	Vertical	146	2.12
5320MHz	Pass	PK	10.6486G	51.29	74.00	-22.71	3	Vertical	146	2.12
5320MHz	Pass	AV	10.63488G	38.28	54.00	-15.72	3	Horizontal	304	1.50
5320MHz	Pass	PK	10.6424G	51.02	74.00	-22.98	3	Horizontal	304	1.50
5500MHz	Pass	AV	5.4538G	48.47	54.00	-5.53	3	Horizontal	304	2.49
5500MHz	Pass	AV	5.503G	105.49	Inf	-Inf	3	Horizontal	304	2.49
5500MHz	Pass	PK	5.4538G	61.88	74.00	-12.12	3	Horizontal	304	2.49
5500MHz	Pass	PK	5.47G	67.65	68.20	-0.55	3	Horizontal	304	2.49
5500MHz	Pass	PK	5.5036G	119.40	Inf	-Inf	3	Horizontal	304	2.49
5500MHz	Pass	AV	11.0002G	38.40	54.00	-15.60	3	Vertical	360	2.94
5500MHz	Pass	PK	11.0002G	50.94	74.00	-23.06	3	Vertical	360	2.94
5500MHz	Pass	AV	10.99972G	38.92	54.00	-15.08	3	Horizontal	29	2.37
5500MHz	Pass	PK	11.00388G	51.93	74.00	-22.07	3	Horizontal	29	2.37
5580MHz	Pass	AV	5.4336G	46.08	54.00	-7.92	3	Horizontal	303	2.41
5580MHz	Pass	AV	5.5782G	104.21	Inf	-Inf	3	Horizontal	303	2.41
5580MHz	Pass	PK	5.457G	59.47	74.00	-14.53	3	Horizontal	303	2.41
5580MHz	Pass	PK	5.4684G	58.81	68.20	-9.39	3	Horizontal	303	2.41
5580MHz	Pass	PK	5.5776G	117.48	Inf	-Inf	3	Horizontal	303	2.41
5580MHz	Pass	PK	5.7282G	60.17	68.20	-8.03	3	Horizontal	303	2.41
5580MHz	Pass	AV	11.161G	38.51	54.00	-15.49	3	Vertical	137	2.83
5580MHz	Pass	PK	11.15252G	51.56	74.00	-22.44	3	Vertical	137	2.83
5580MHz	Pass	AV	11.15452G	38.16	54.00	-15.84	3	Horizontal	0	1.50
5580MHz	Pass	PK	11.16296G	50.54	74.00	-23.46	3	Horizontal	0	1.50
5700MHz	Pass	AV	5.6976G	102.83	Inf	-Inf	3	Horizontal	302	2.37
5700MHz	Pass	PK	5.6976G	116.18	Inf	-Inf	3	Horizontal	302	2.37
5700MHz	Pass	PK	5.7276G	66.16	68.20	-2.04	3	Horizontal	302	2.37
5700MHz	Pass	AV	11.39304G	38.67	54.00	-15.33	3	Vertical	312	1.43
5700MHz	Pass	PK	11.40276G	51.01	74.00	-22.99	3	Vertical	312	1.43
5700MHz	Pass	AV	11.39456G	38.96	54.00	-15.04	3	Horizontal	20	2.94
5700MHz	Pass	PK	11.39656G	51.65	74.00	-22.35	3	Horizontal	20	2.94
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.4548G	45.95	54.00	-8.05	3	Horizontal	302	2.38
5720MHz Straddle 5.47-5.725GHz	Pass	AV	5.7176G	106.30	Inf	-Inf	3	Horizontal	302	2.38
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4416G	59.70	74.00	-14.30	3	Horizontal	302	2.38
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.4608G	58.64	68.20	-9.56	3	Horizontal	302	2.38
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.7176G	118.05	Inf	-Inf	3	Horizontal	302	2.38
5720MHz Straddle 5.47-5.725GHz	Pass	PK	5.9228G	61.99	68.20	-6.21	3	Horizontal	302	2.38
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.44436G	39.01	54.00	-14.99	3	Vertical	136	1.53
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44772G	51.47	74.00	-22.53	3	Vertical	136	1.53
5720MHz Straddle 5.47-5.725GHz	Pass	AV	11.43948G	39.91	54.00	-14.09	3	Horizontal	30	1.27
5720MHz Straddle 5.47-5.725GHz	Pass	PK	11.44968G	52.38	74.00	-21.62	3	Horizontal	30	1.27
5745MHz	Pass	AV	5.451G	46.03	54.00	-7.97	3	Horizontal	302	2.53

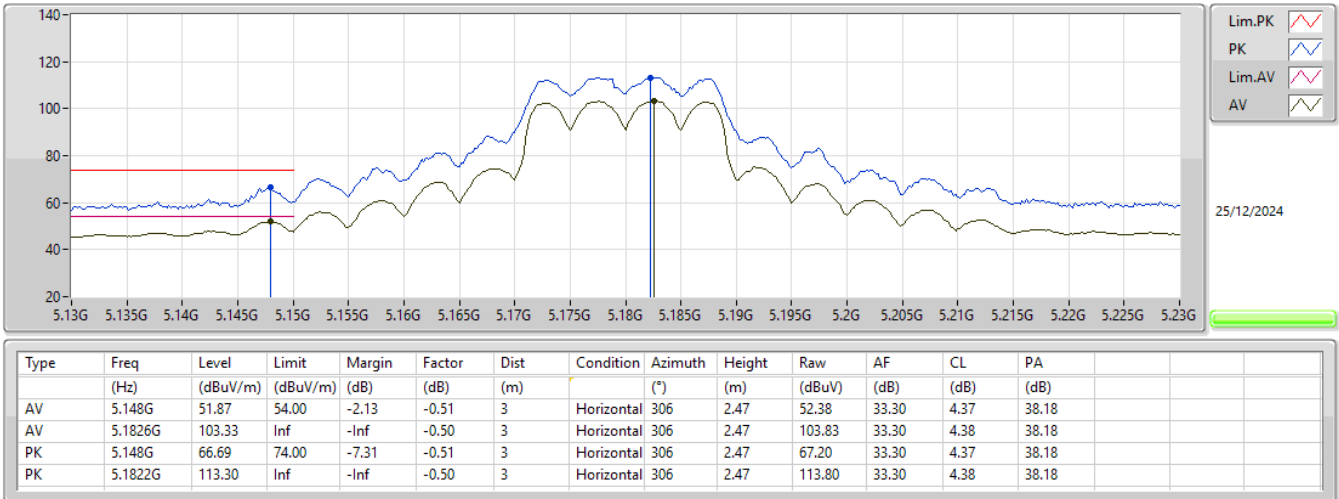
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5745MHz	Pass	AV	5.7414G	105.82	Inf	-Inf	3	Horizontal	302	2.53
5745MHz	Pass	PK	5.5602G	60.26	68.20	-7.94	3	Horizontal	302	2.53
5745MHz	Pass	PK	5.7414G	117.91	Inf	-Inf	3	Horizontal	302	2.53
5745MHz	Pass	PK	5.9598G	62.39	68.20	-5.81	3	Horizontal	302	2.53
5745MHz	Pass	AV	11.49224G	38.80	54.00	-15.20	3	Vertical	185	1.50
5745MHz	Pass	PK	11.49084G	51.39	74.00	-22.61	3	Vertical	185	1.50
5745MHz	Pass	AV	11.48948G	39.49	54.00	-14.51	3	Horizontal	31	1.32
5745MHz	Pass	PK	11.4918G	52.61	74.00	-21.39	3	Horizontal	31	1.32
5785MHz	Pass	AV	5.78734G	106.93	Inf	-Inf	3	Horizontal	303	2.40
5785MHz	Pass	PK	5.59858G	60.24	68.20	-7.96	3	Horizontal	303	2.40
5785MHz	Pass	PK	5.78613G	119.40	Inf	-Inf	3	Horizontal	303	2.40
5785MHz	Pass	PK	6.0487G	62.56	68.20	-5.64	3	Horizontal	303	2.40
5785MHz	Pass	AV	11.57048G	38.69	54.00	-15.31	3	Vertical	315	2.88
5785MHz	Pass	PK	11.56648G	52.30	74.00	-21.70	3	Vertical	315	2.88
5785MHz	Pass	AV	11.56668G	39.38	54.00	-14.62	3	Horizontal	149	1.50
5785MHz	Pass	PK	11.575G	51.74	74.00	-22.26	3	Horizontal	149	1.50
5825MHz	Pass	AV	5.8262G	105.47	Inf	-Inf	3	Horizontal	302	2.38
5825MHz	Pass	PK	5.5358G	61.47	68.20	-6.73	3	Horizontal	302	2.38
5825MHz	Pass	PK	5.8178G	117.28	Inf	-Inf	3	Horizontal	302	2.38
5825MHz	Pass	PK	5.9534G	62.98	68.20	-5.22	3	Horizontal	302	2.38
5825MHz	Pass	AV	11.64852G	38.60	54.00	-15.40	3	Vertical	134	2.09
5825MHz	Pass	PK	11.64564G	51.97	74.00	-22.03	3	Vertical	134	2.09
5825MHz	Pass	AV	11.64768G	38.43	54.00	-15.57	3	Horizontal	147	1.50
5825MHz	Pass	PK	11.64404G	51.57	74.00	-22.43	3	Horizontal	147	1.50
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.1456G	51.72	54.00	-2.28	3	Horizontal	307	2.47
5190MHz	Pass	AV	5.1948G	98.14	Inf	-Inf	3	Horizontal	307	2.47
5190MHz	Pass	PK	5.146G	66.62	74.00	-7.38	3	Horizontal	307	2.47
5190MHz	Pass	PK	5.1752G	110.68	Inf	-Inf	3	Horizontal	307	2.47
5190MHz	Pass	PK	10.38496G	51.15	68.20	-17.05	3	Vertical	152	2.23
5190MHz	Pass	PK	10.3882G	50.06	68.20	-18.14	3	Horizontal	207	1.12
5230MHz	Pass	AV	5.1468G	49.05	54.00	-4.95	3	Horizontal	305	1.62
5230MHz	Pass	AV	5.2356G	101.47	Inf	-Inf	3	Horizontal	305	1.62
5230MHz	Pass	PK	5.1472G	63.32	74.00	-10.68	3	Horizontal	305	1.62
5230MHz	Pass	PK	5.236G	114.77	Inf	-Inf	3	Horizontal	305	1.62
5230MHz	Pass	PK	10.45252G	50.18	68.20	-18.02	3	Vertical	148	1.50
5230MHz	Pass	PK	10.4578G	51.03	68.20	-17.17	3	Horizontal	211	1.50
5270MHz	Pass	AV	5.2764G	102.05	Inf	-Inf	3	Horizontal	304	1.43
5270MHz	Pass	AV	5.3552G	50.79	54.00	-3.21	3	Horizontal	304	1.43
5270MHz	Pass	PK	5.2764G	116.89	Inf	-Inf	3	Horizontal	304	1.43
5270MHz	Pass	PK	5.3556G	66.80	74.00	-7.20	3	Horizontal	304	1.43
5270MHz	Pass	PK	10.53148G	52.00	68.20	-16.20	3	Vertical	148	1.48
5270MHz	Pass	PK	10.5404G	50.38	68.20	-17.82	3	Horizontal	171	1.50
5310MHz	Pass	AV	5.3144G	100.29	Inf	-Inf	3	Horizontal	304	1.70
5310MHz	Pass	AV	5.354G	53.49	54.00	-0.51	3	Horizontal	304	1.70
5310MHz	Pass	PK	5.3136G	112.81	Inf	-Inf	3	Horizontal	304	1.70
5310MHz	Pass	PK	5.3512G	68.88	74.00	-5.12	3	Horizontal	304	1.70
5310MHz	Pass	AV	10.61996G	38.55	54.00	-15.45	3	Vertical	215	1.95
5310MHz	Pass	PK	10.61496G	51.25	74.00	-22.75	3	Vertical	215	1.95
5310MHz	Pass	AV	10.61672G	38.07	54.00	-15.93	3	Horizontal	292	1.50
5310MHz	Pass	PK	10.61512G	50.86	74.00	-23.14	3	Horizontal	292	1.50
5510MHz	Pass	AV	5.4568G	50.54	54.00	-3.46	3	Horizontal	304	2.72
5510MHz	Pass	AV	5.506G	100.07	Inf	-Inf	3	Horizontal	304	2.72
5510MHz	Pass	PK	5.4584G	67.09	74.00	-6.91	3	Horizontal	304	2.72
5510MHz	Pass	PK	5.4628G	67.46	68.20	-0.74	3	Horizontal	304	2.72
5510MHz	Pass	PK	5.5164G	113.40	Inf	-Inf	3	Horizontal	304	2.72
5510MHz	Pass	AV	11.01312G	38.20	54.00	-15.80	3	Vertical	54	1.50
5510MHz	Pass	PK	11.01732G	51.25	74.00	-22.75	3	Vertical	54	1.50
5510MHz	Pass	AV	11.01644G	38.21	54.00	-15.79	3	Horizontal	239	1.50
5510MHz	Pass	PK	11.01296G	51.19	74.00	-22.81	3	Horizontal	239	1.50
5550MHz	Pass	AV	5.4596G	48.19	54.00	-5.81	3	Horizontal	302	2.47
5550MHz	Pass	AV	5.5484G	102.12	Inf	-Inf	3	Horizontal	302	2.47

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5550MHz	Pass	PK	5.4592G	61.38	74.00	-12.62	3	Horizontal	302	2.47
5550MHz	Pass	PK	5.4688G	64.15	68.20	-4.05	3	Horizontal	302	2.47
5550MHz	Pass	PK	5.5472G	114.72	Inf	-Inf	3	Horizontal	302	2.47
5550MHz	Pass	AV	11.10872G	38.12	54.00	-15.88	3	Vertical	124	2.28
5550MHz	Pass	PK	11.09368G	51.29	74.00	-22.71	3	Vertical	124	2.28
5550MHz	Pass	AV	11.10684G	38.20	54.00	-15.80	3	Horizontal	33	2.37
5550MHz	Pass	PK	11.09284G	51.30	74.00	-22.70	3	Horizontal	33	2.37
5670MHz	Pass	AV	5.673G	100.58	Inf	-Inf	3	Horizontal	303	2.37
5670MHz	Pass	PK	5.6616G	113.21	Inf	-Inf	3	Horizontal	303	2.37
5670MHz	Pass	PK	5.7264G	66.00	68.20	-2.20	3	Horizontal	303	2.37
5670MHz	Pass	AV	11.33136G	38.52	54.00	-15.48	3	Vertical	15	2.39
5670MHz	Pass	PK	11.3348G	51.39	74.00	-22.61	3	Vertical	15	2.39
5670MHz	Pass	AV	11.34672G	38.58	54.00	-15.42	3	Horizontal	114	1.50
5670MHz	Pass	PK	11.34828G	52.20	74.00	-21.80	3	Horizontal	114	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.452G	46.02	54.00	-7.98	3	Horizontal	303	2.36
5710MHz Straddle 5.47-5.725GHz	Pass	AV	5.7124G	104.33	Inf	-Inf	3	Horizontal	303	2.36
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4124G	59.56	74.00	-14.44	3	Horizontal	303	2.36
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.4604G	59.24	68.20	-8.96	3	Horizontal	303	2.36
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.7028G	116.70	Inf	-Inf	3	Horizontal	303	2.36
5710MHz Straddle 5.47-5.725GHz	Pass	PK	5.9392G	62.09	68.20	-6.11	3	Horizontal	303	2.36
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.4116G	38.59	54.00	-15.41	3	Vertical	184	1.49
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.4228G	51.30	74.00	-22.70	3	Vertical	184	1.49
5710MHz Straddle 5.47-5.725GHz	Pass	AV	11.416G	39.20	54.00	-14.80	3	Horizontal	27	1.50
5710MHz Straddle 5.47-5.725GHz	Pass	PK	11.41876G	51.11	74.00	-22.89	3	Horizontal	27	1.50
5755MHz	Pass	AV	5.4574G	45.83	54.00	-8.17	3	Horizontal	302	2.41
5755MHz	Pass	AV	5.7574G	103.92	Inf	-Inf	3	Horizontal	302	2.41
5755MHz	Pass	PK	5.6458G	62.35	68.20	-5.85	3	Horizontal	302	2.41
5755MHz	Pass	PK	5.7478G	118.01	Inf	-Inf	3	Horizontal	302	2.41
5755MHz	Pass	PK	6.0106G	62.59	68.20	-5.61	3	Horizontal	302	2.41
5755MHz	Pass	AV	11.50512G	38.81	54.00	-15.19	3	Vertical	84	1.23
5755MHz	Pass	PK	11.51208G	52.18	74.00	-21.82	3	Vertical	84	1.23
5755MHz	Pass	AV	11.50652G	39.18	54.00	-14.82	3	Horizontal	30	2.14
5755MHz	Pass	PK	11.51716G	52.81	74.00	-21.19	3	Horizontal	30	2.14
5795MHz	Pass	AV	5.7962G	104.36	Inf	-Inf	3	Horizontal	302	2.41
5795MHz	Pass	PK	5.6282G	60.35	68.20	-7.85	3	Horizontal	302	2.41
5795MHz	Pass	PK	5.777G	116.80	Inf	-Inf	3	Horizontal	302	2.41
5795MHz	Pass	PK	5.9522G	63.04	68.20	-5.16	3	Horizontal	302	2.41
5795MHz	Pass	AV	11.58532G	38.52	54.00	-15.48	3	Vertical	309	1.50
5795MHz	Pass	PK	11.58968G	50.91	74.00	-23.09	3	Vertical	309	1.50
5795MHz	Pass	AV	11.58436G	38.76	54.00	-15.24	3	Horizontal	37	1.13
5795MHz	Pass	PK	11.5908G	51.00	74.00	-23.00	3	Horizontal	37	1.13
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.15G	52.59	54.00	-1.41	3	Horizontal	306	1.49
5210MHz	Pass	AV	5.221G	94.70	Inf	-Inf	3	Horizontal	306	1.49
5210MHz	Pass	AV	5.351G	48.02	54.00	-5.98	3	Horizontal	306	1.49
5210MHz	Pass	PK	5.141G	68.15	74.00	-5.85	3	Horizontal	306	1.49
5210MHz	Pass	PK	5.221G	107.91	Inf	-Inf	3	Horizontal	306	1.49
5210MHz	Pass	PK	5.459G	61.28	74.00	-12.72	3	Horizontal	306	1.49
5210MHz	Pass	PK	10.41256G	50.64	68.20	-17.56	3	Vertical	120	1.50
5210MHz	Pass	PK	10.42672G	50.85	68.20	-17.35	3	Horizontal	301	2.38
5290MHz	Pass	AV	5.145G	46.28	54.00	-7.72	3	Horizontal	305	1.55
5290MHz	Pass	AV	5.285G	96.15	Inf	-Inf	3	Horizontal	305	1.55
5290MHz	Pass	AV	5.354G	53.84	54.00	-0.16	3	Horizontal	305	1.55
5290MHz	Pass	PK	5.147G	59.76	74.00	-14.24	3	Horizontal	305	1.55
5290MHz	Pass	PK	5.306G	109.18	Inf	-Inf	3	Horizontal	305	1.55
5290MHz	Pass	PK	5.356G	70.94	74.00	-3.06	3	Horizontal	305	1.55
5290MHz	Pass	PK	5.488G	60.92	68.20	-7.28	3	Horizontal	305	1.55
5290MHz	Pass	PK	10.57432G	51.28	68.20	-16.92	3	Vertical	147	1.44
5290MHz	Pass	PK	10.58572G	50.60	68.20	-17.60	3	Horizontal	27	1.50
5530MHz	Pass	AV	5.35G	45.56	54.00	-8.44	3	Horizontal	303	2.43
5530MHz	Pass	AV	5.453G	51.06	54.00	-2.94	3	Horizontal	303	2.43
5530MHz	Pass	AV	5.534G	96.10	Inf	-Inf	3	Horizontal	303	2.43

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5530MHz	Pass	PK	5.333G	58.74	68.20	-9.46	3	Horizontal	303	2.43
5530MHz	Pass	PK	5.443G	65.16	74.00	-8.84	3	Horizontal	303	2.43
5530MHz	Pass	PK	5.464G	64.70	68.20	-3.50	3	Horizontal	303	2.43
5530MHz	Pass	PK	5.544G	108.88	Inf	-Inf	3	Horizontal	303	2.43
5530MHz	Pass	PK	5.766G	61.00	68.20	-7.20	3	Horizontal	303	2.43
5530MHz	Pass	AV	11.06252G	38.04	54.00	-15.96	3	Vertical	153	2.93
5530MHz	Pass	PK	11.068G	50.93	74.00	-23.07	3	Vertical	153	2.93
5530MHz	Pass	AV	11.063G	38.07	54.00	-15.93	3	Horizontal	170	1.50
5530MHz	Pass	PK	11.05916G	50.65	74.00	-23.35	3	Horizontal	170	1.50
5610MHz	Pass	AV	5.458G	47.54	54.00	-6.46	3	Horizontal	306	2.44
5610MHz	Pass	AV	5.608G	97.78	Inf	-Inf	3	Horizontal	306	2.44
5610MHz	Pass	PK	5.455G	60.89	74.00	-13.11	3	Horizontal	306	2.44
5610MHz	Pass	PK	5.467G	63.99	68.20	-4.21	3	Horizontal	306	2.44
5610MHz	Pass	PK	5.608G	111.29	Inf	-Inf	3	Horizontal	306	2.44
5610MHz	Pass	PK	5.727G	67.54	68.20	-0.66	3	Horizontal	306	2.44
5610MHz	Pass	AV	11.21916G	38.02	54.00	-15.98	3	Vertical	144	1.50
5610MHz	Pass	PK	11.2222G	51.20	74.00	-22.80	3	Vertical	144	1.50
5610MHz	Pass	AV	11.21976G	38.02	54.00	-15.98	3	Horizontal	168	1.50
5610MHz	Pass	PK	11.2196G	50.35	74.00	-23.65	3	Horizontal	168	1.50
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.4596G	46.55	54.00	-7.45	3	Horizontal	304	2.37
5690MHz Straddle 5.47-5.725GHz	Pass	AV	5.6876G	99.98	Inf	-Inf	3	Horizontal	304	2.37
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.4524G	60.21	74.00	-13.79	3	Horizontal	304	2.37
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.468G	58.98	68.20	-9.22	3	Horizontal	304	2.37
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.6864G	113.56	Inf	-Inf	3	Horizontal	304	2.37
5690MHz Straddle 5.47-5.725GHz	Pass	PK	5.8556G	66.16	68.20	-2.04	3	Horizontal	304	2.37
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.3792G	38.76	54.00	-15.24	3	Vertical	278	1.22
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37668G	50.90	74.00	-23.10	3	Vertical	278	1.22
5690MHz Straddle 5.47-5.725GHz	Pass	AV	11.3796G	39.08	54.00	-14.92	3	Horizontal	31	1.25
5690MHz Straddle 5.47-5.725GHz	Pass	PK	11.37396G	51.61	74.00	-22.39	3	Horizontal	31	1.25
5775MHz	Pass	AV	5.763G	98.44	Inf	-Inf	3	Horizontal	303	2.30
5775MHz	Pass	PK	5.6454G	67.43	68.20	-0.77	3	Horizontal	303	2.30
5775MHz	Pass	PK	5.7714G	112.03	Inf	-Inf	3	Horizontal	303	2.30
5775MHz	Pass	PK	5.9238G	61.99	69.09	-7.10	3	Horizontal	303	2.30
5775MHz	Pass	AV	11.54036G	38.93	54.00	-15.07	3	Vertical	155	1.50
5775MHz	Pass	PK	11.55672G	51.52	74.00	-22.48	3	Vertical	155	1.50
5775MHz	Pass	AV	11.54G	38.71	54.00	-15.29	3	Horizontal	140	2.56
5775MHz	Pass	PK	11.549G	51.09	74.00	-22.91	3	Horizontal	140	2.56

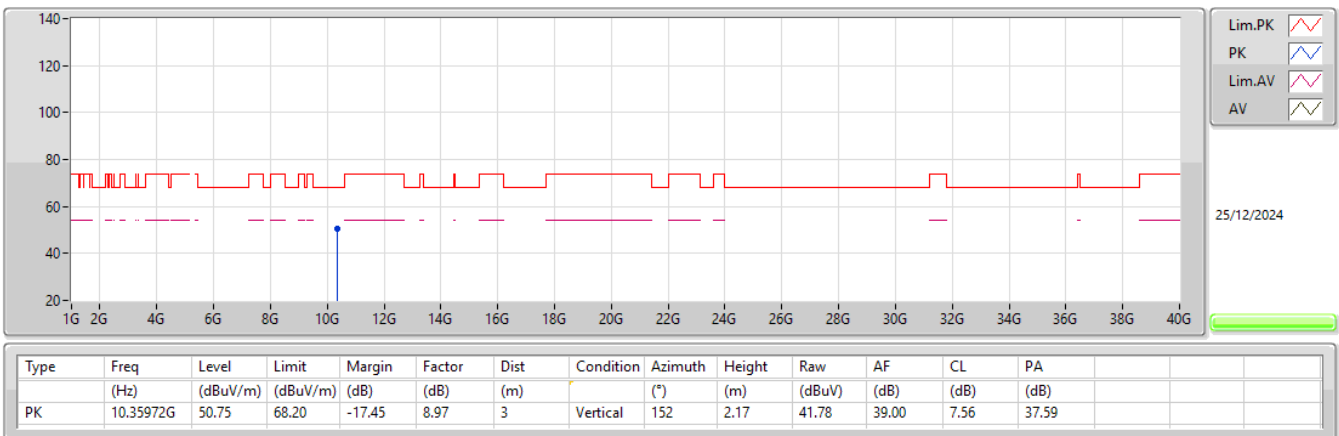
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



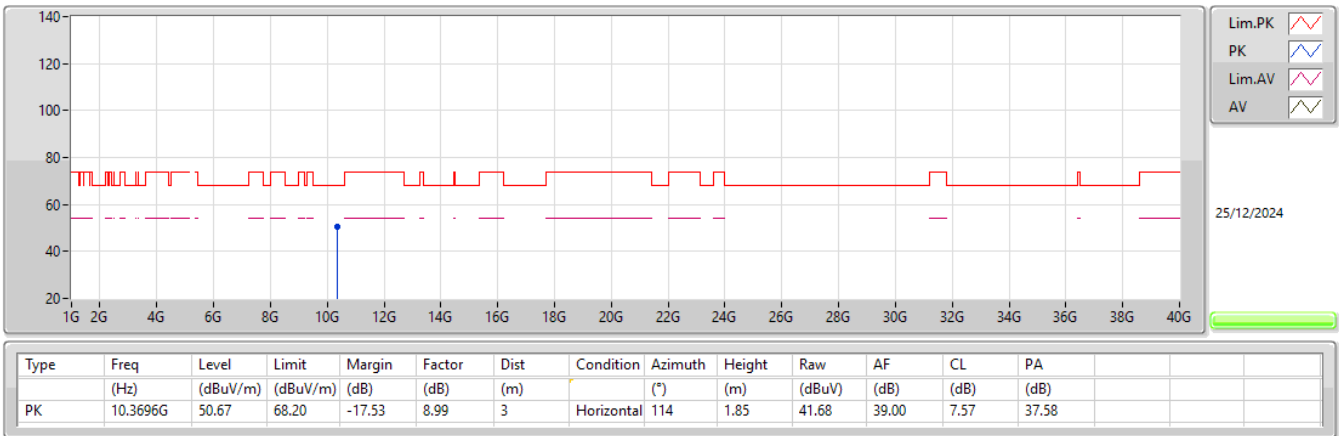
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



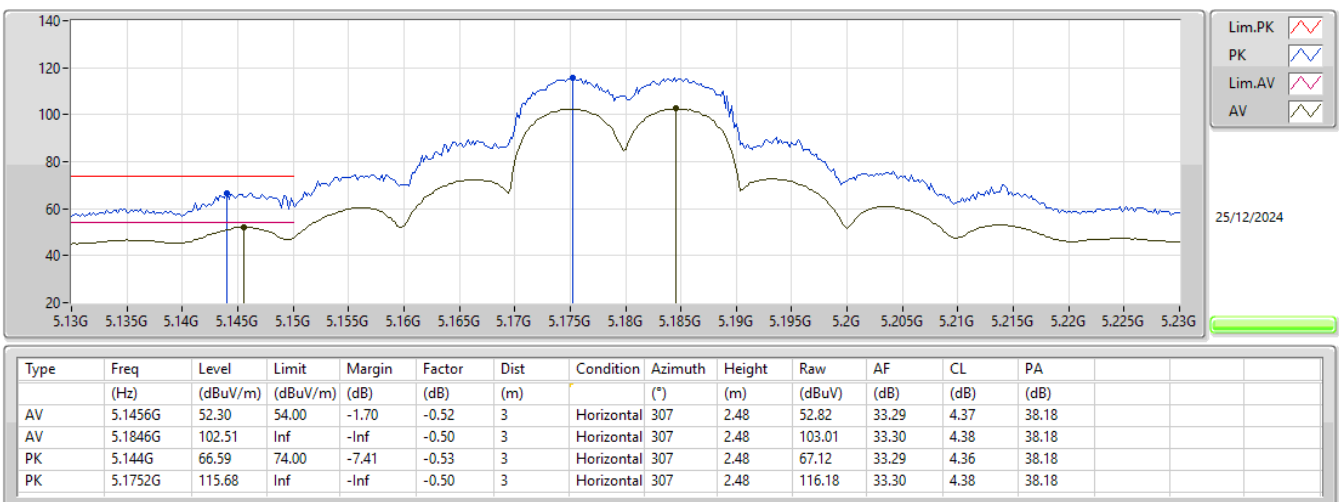
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5180MHz_TX



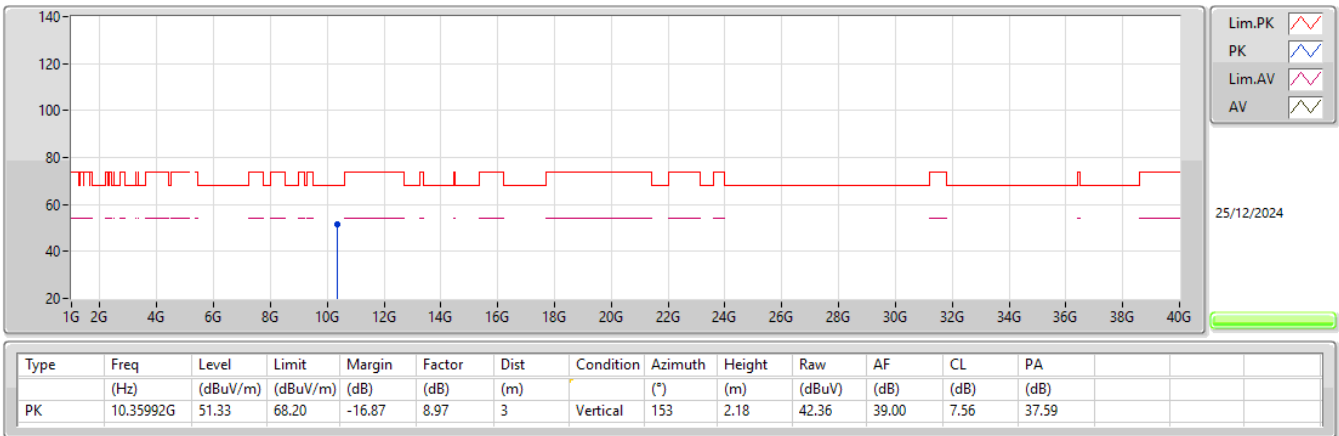
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5180MHz_TX



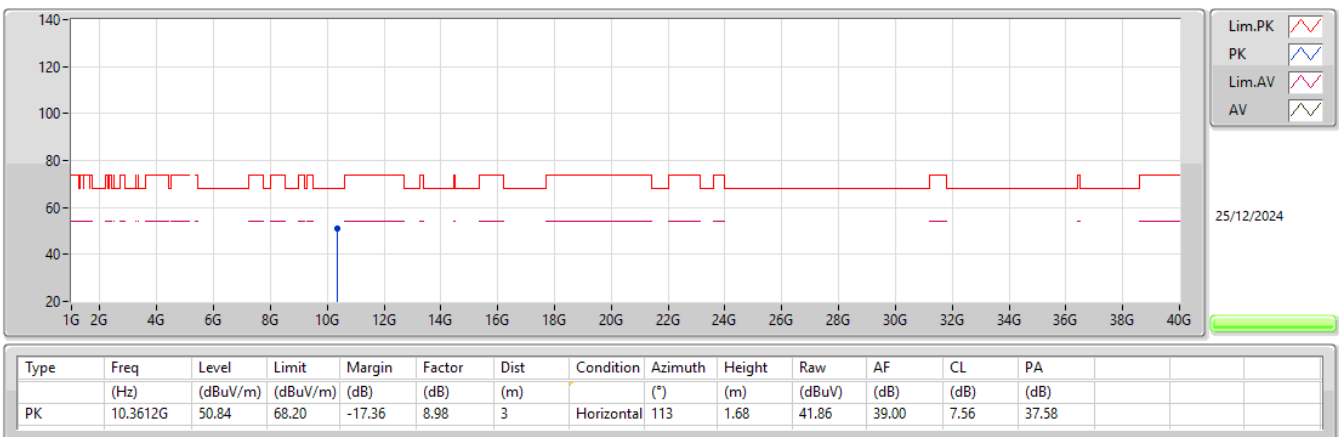
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5180MHz_TX



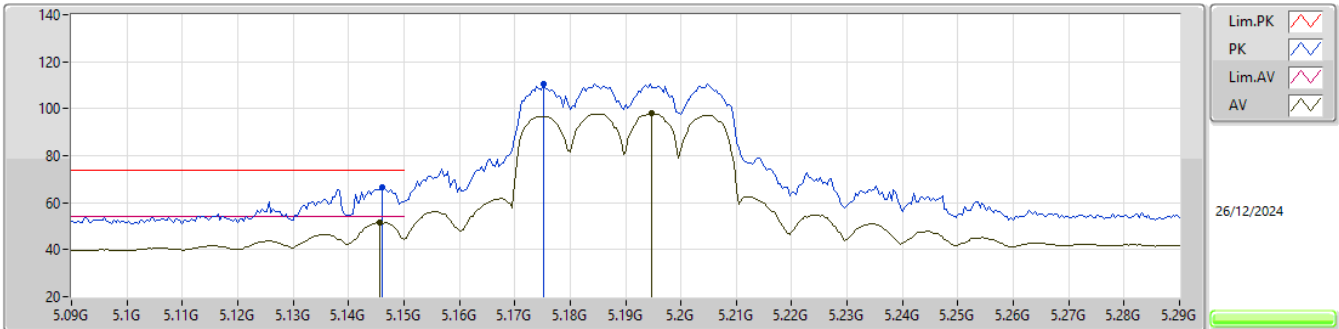
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TX



5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

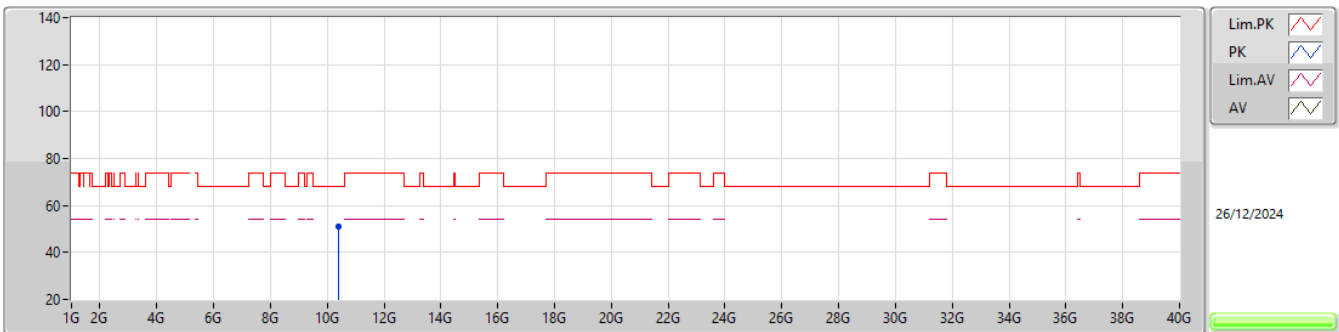
5190MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.1456G	51.72	54.00	-2.28	-0.52	3	Horizontal	307	2.47	52.24	33.29	4.37	38.18
AV	5.1948G	98.14	Inf	-Inf	-0.49	3	Horizontal	307	2.47	98.63	33.30	4.39	38.18
PK	5.146G	66.62	74.00	-7.38	-0.52	3	Horizontal	307	2.47	67.14	33.29	4.37	38.18
PK	5.1752G	110.68	Inf	-Inf	-0.50	3	Horizontal	307	2.47	111.18	33.30	4.38	38.18

5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

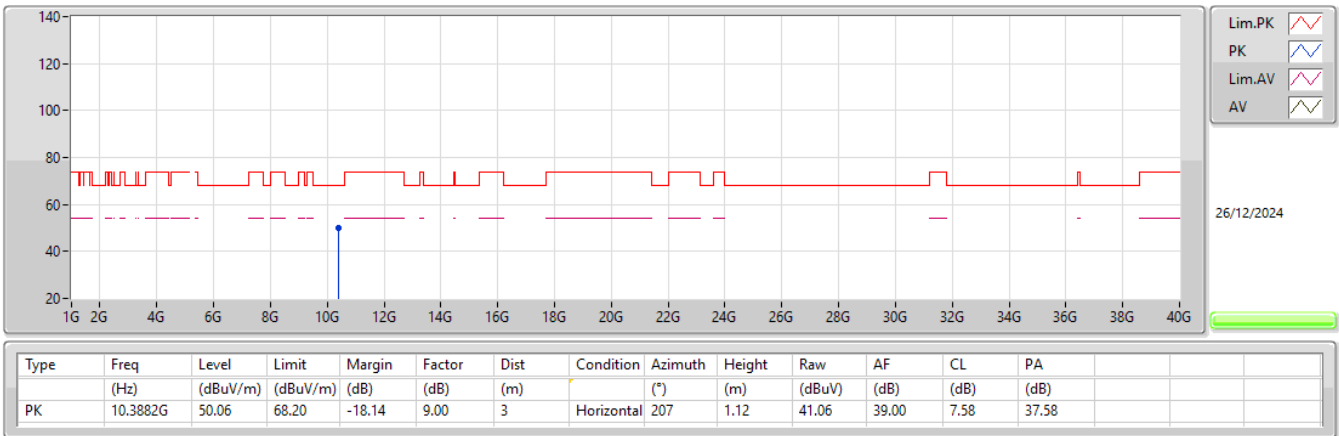
5190MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	10.38496G	51.15	68.20	-17.05	9.00	3	Vertical	152	2.23	42.15	39.00	7.58	37.58

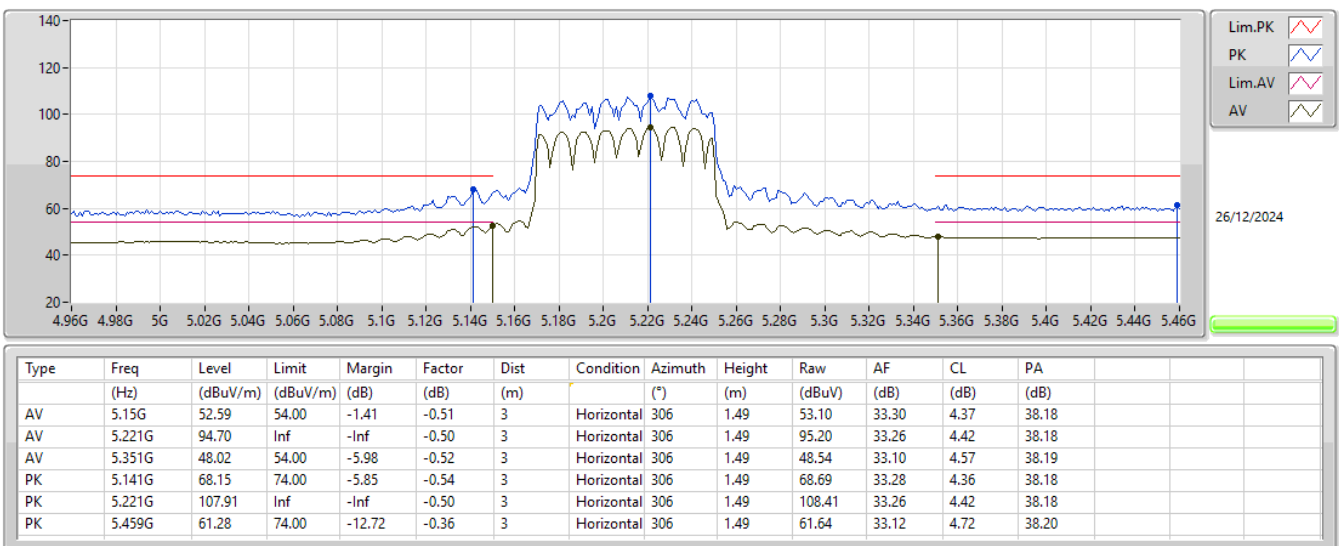
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5190MHz_TX



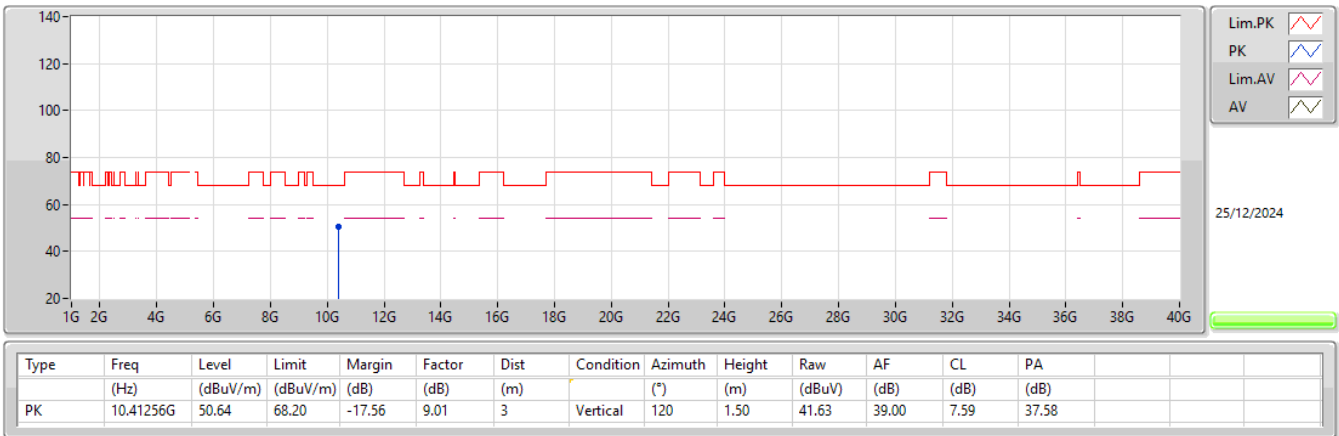
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5210MHz_TX



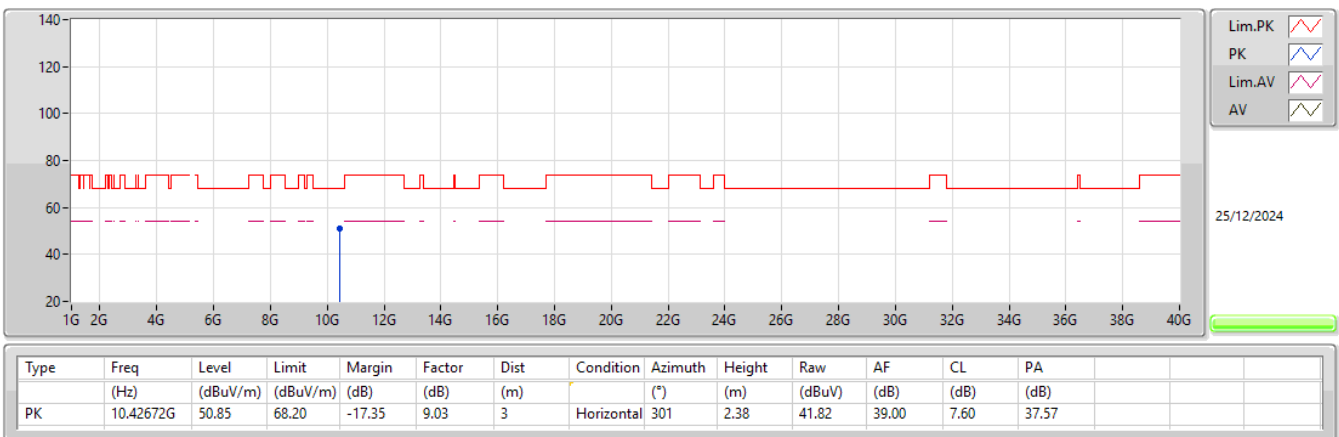
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5210MHz_TX



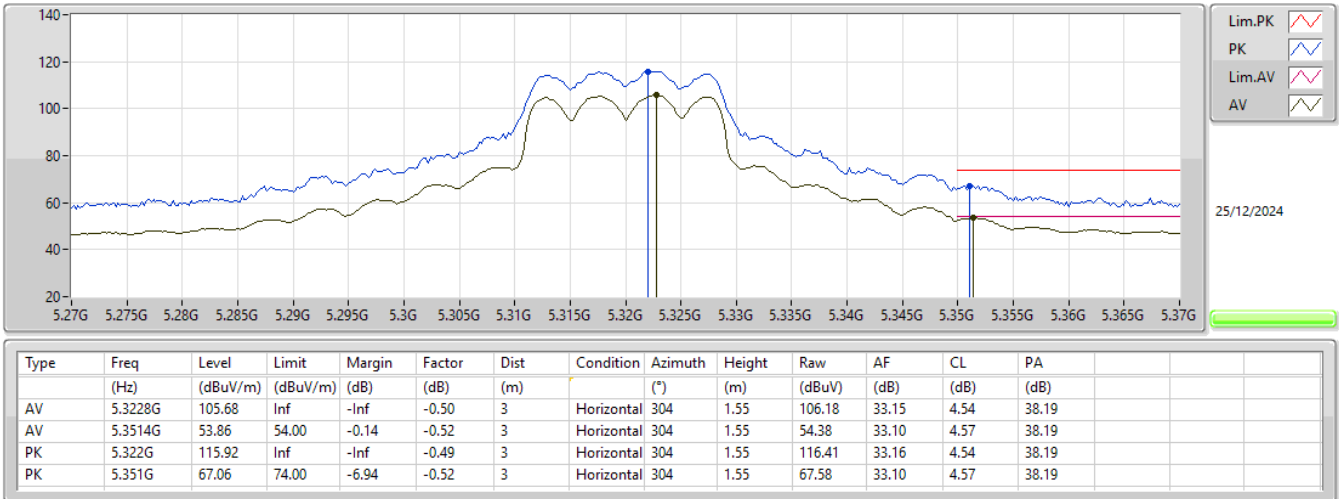
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5210MHz_TX



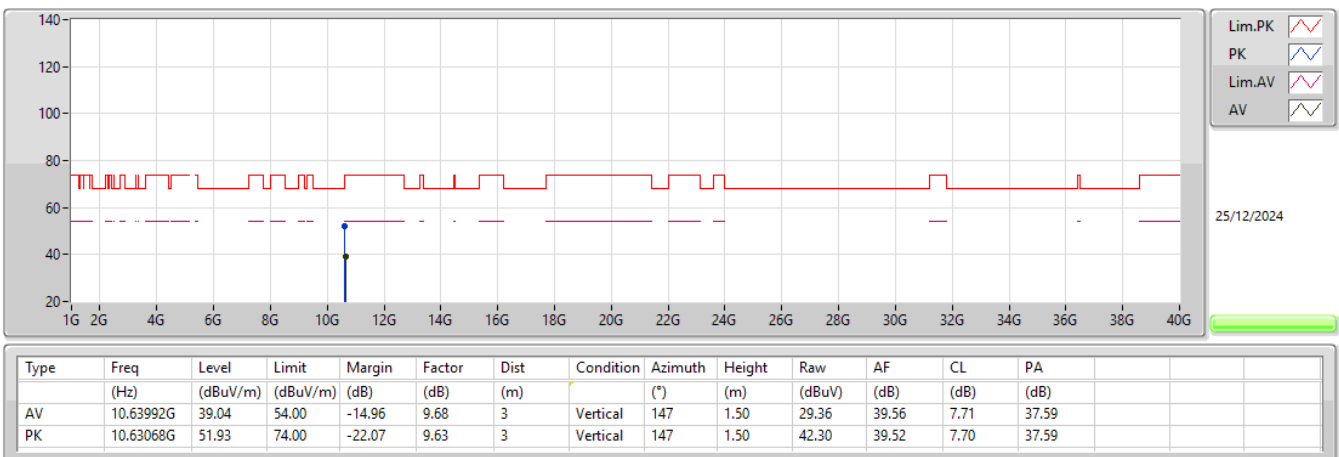
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5320MHz_TX



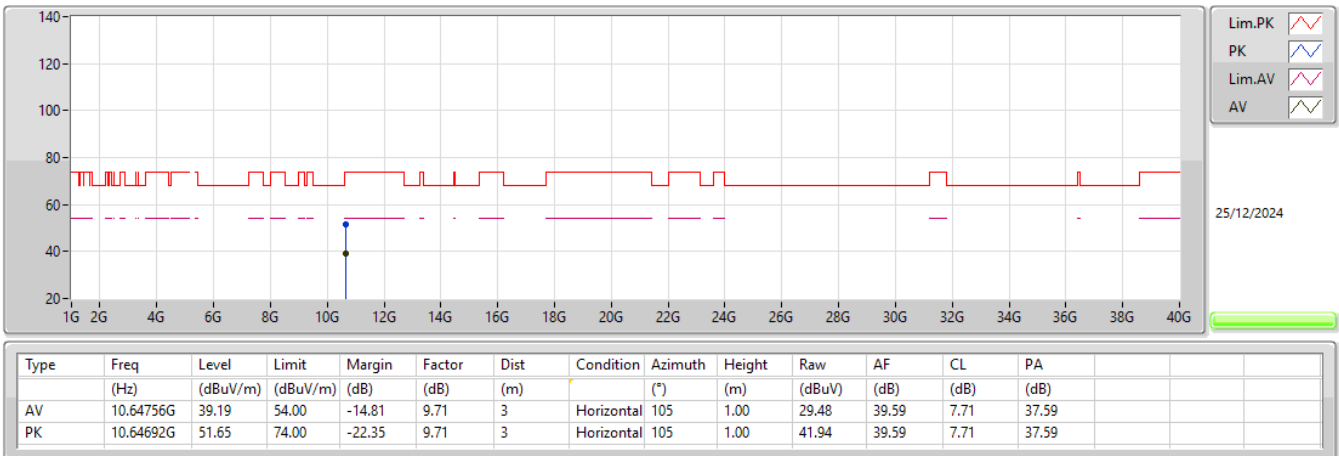
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5320MHz_TX



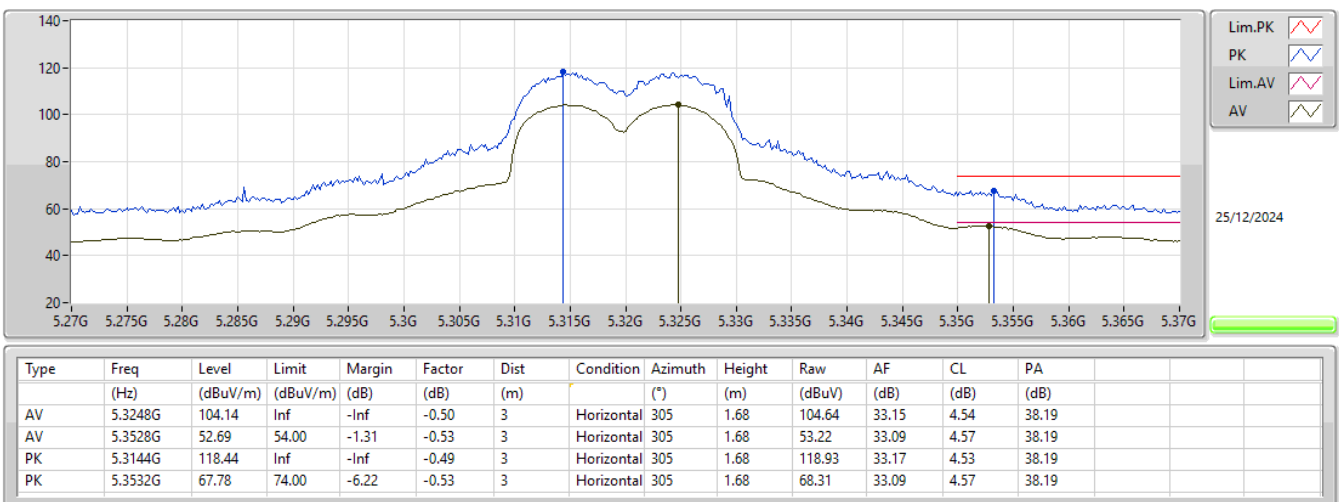
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5320MHz_TX



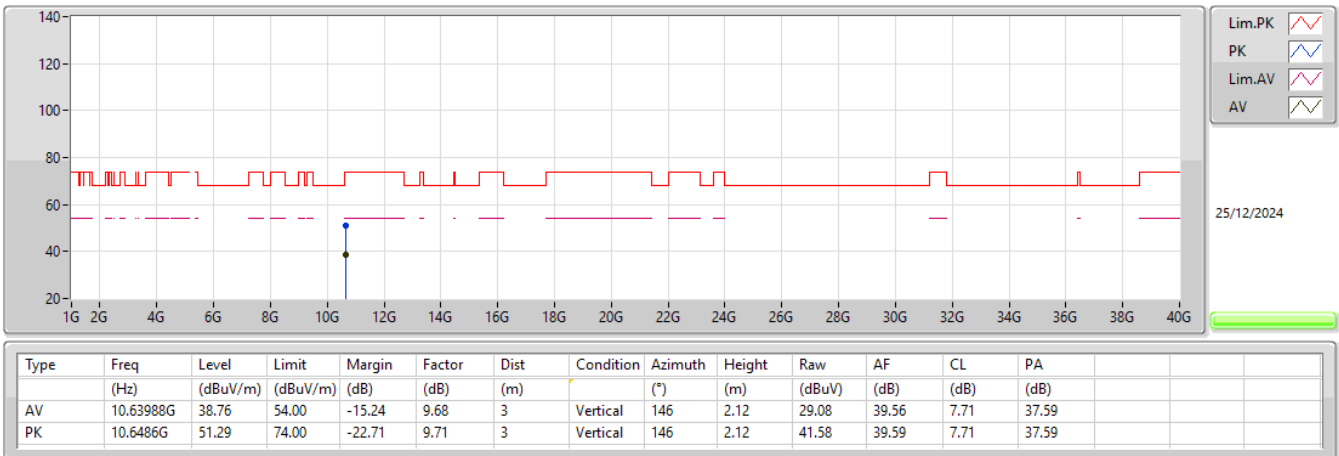
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5320MHz_TX



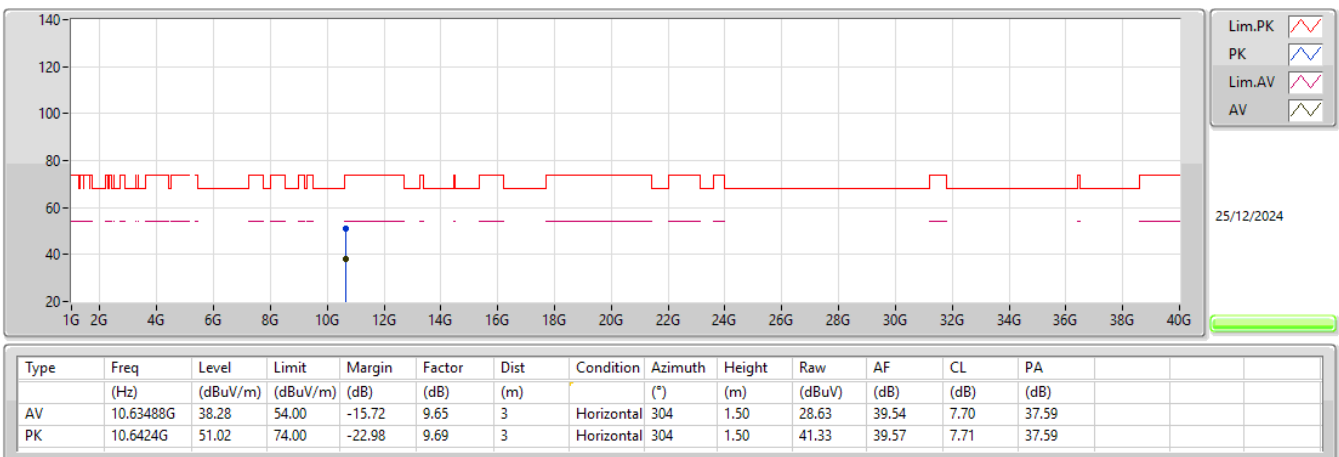
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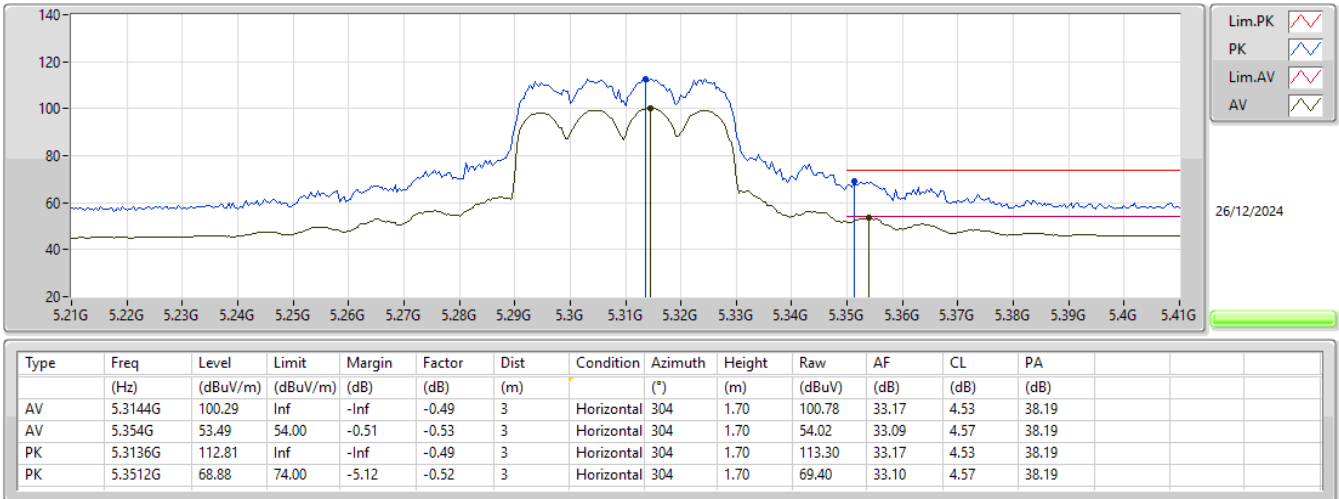
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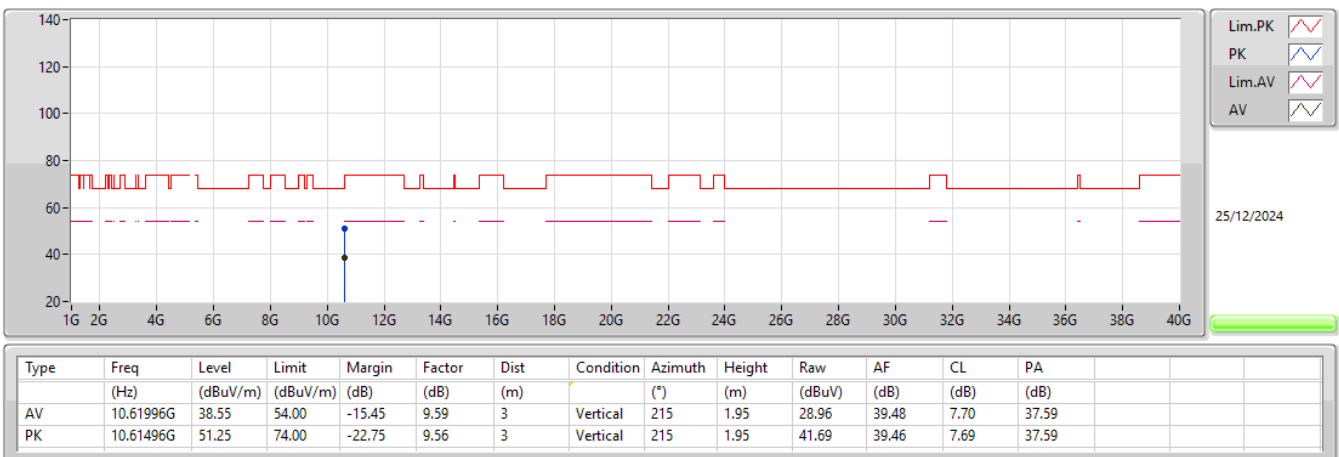
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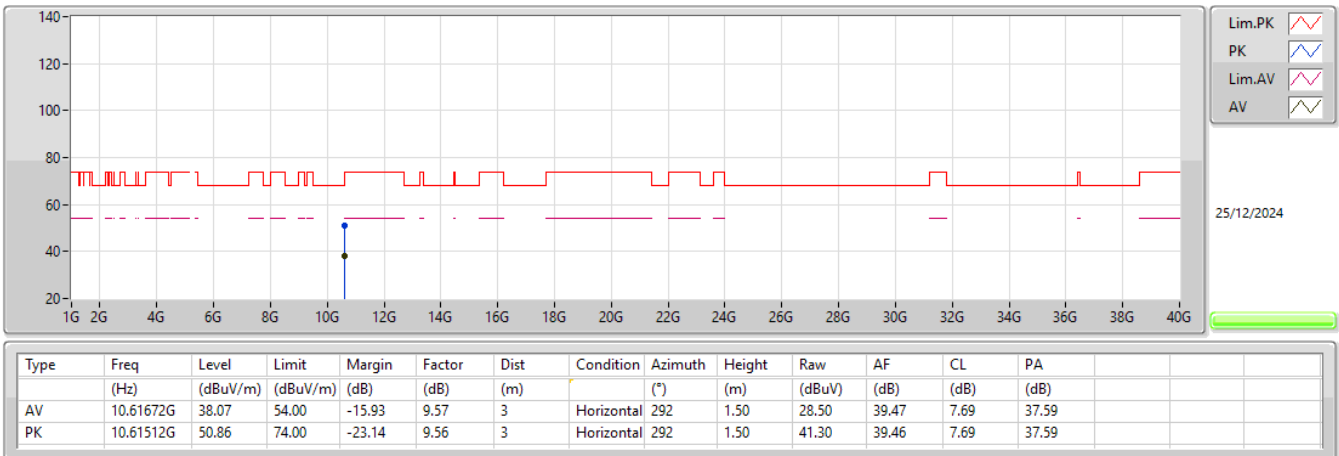
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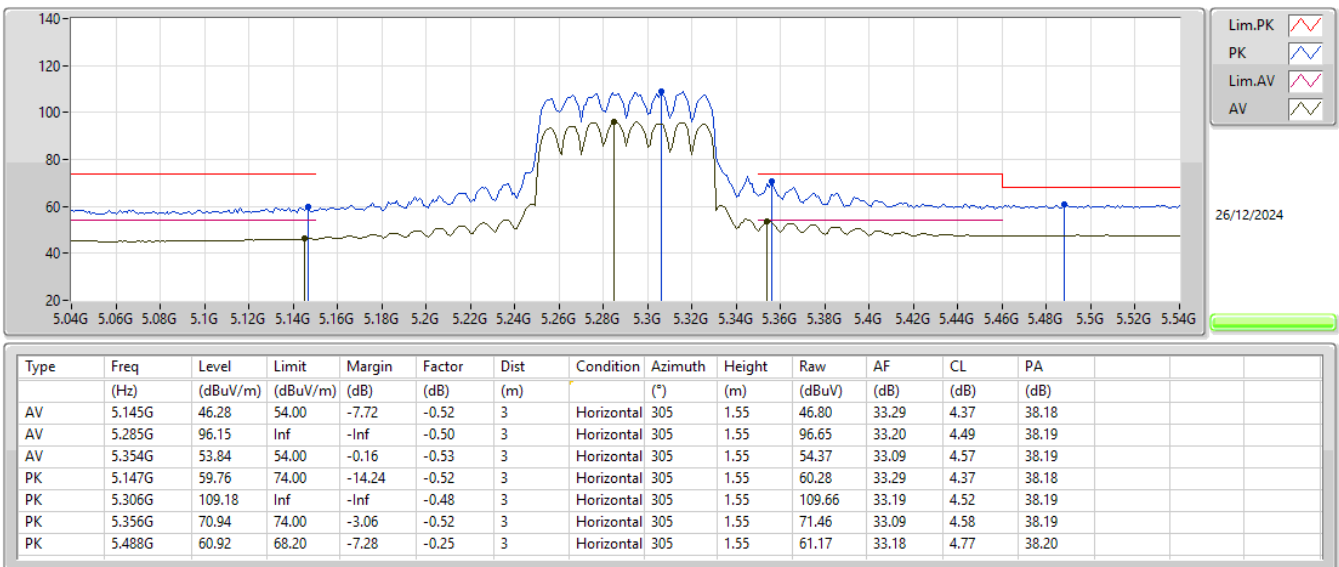
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5310MHz_TX



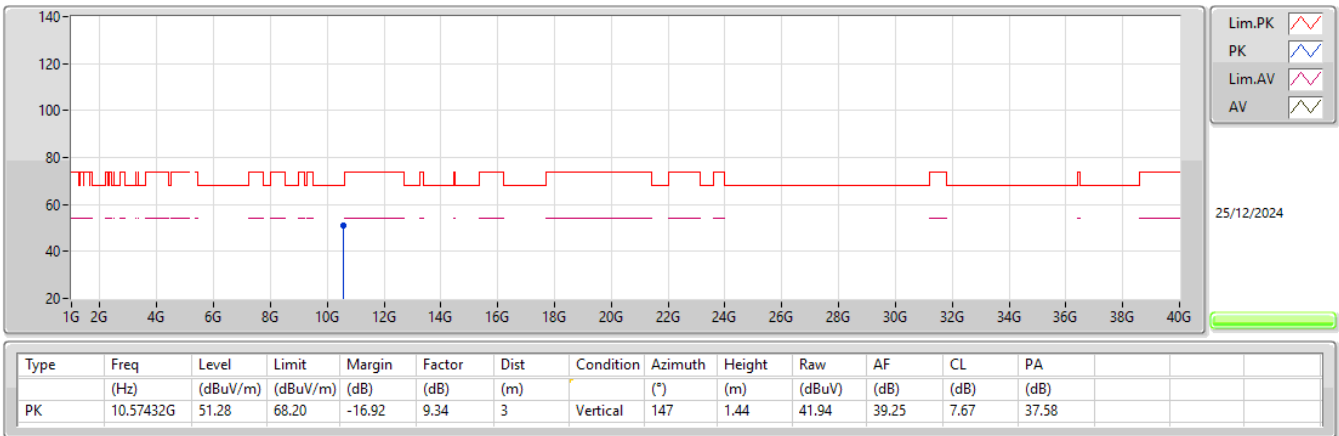
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5290MHz_TX



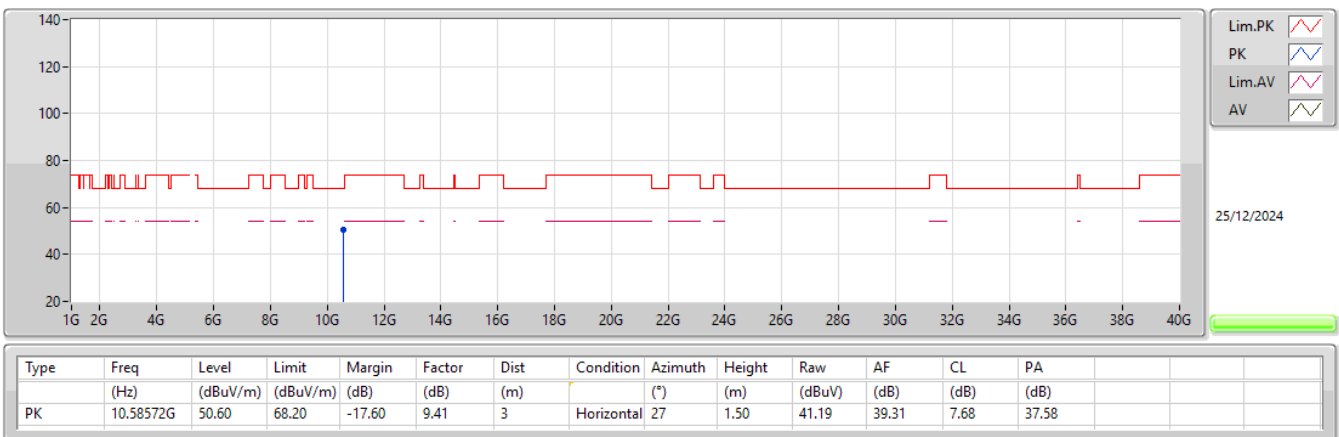
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5290MHz_TX



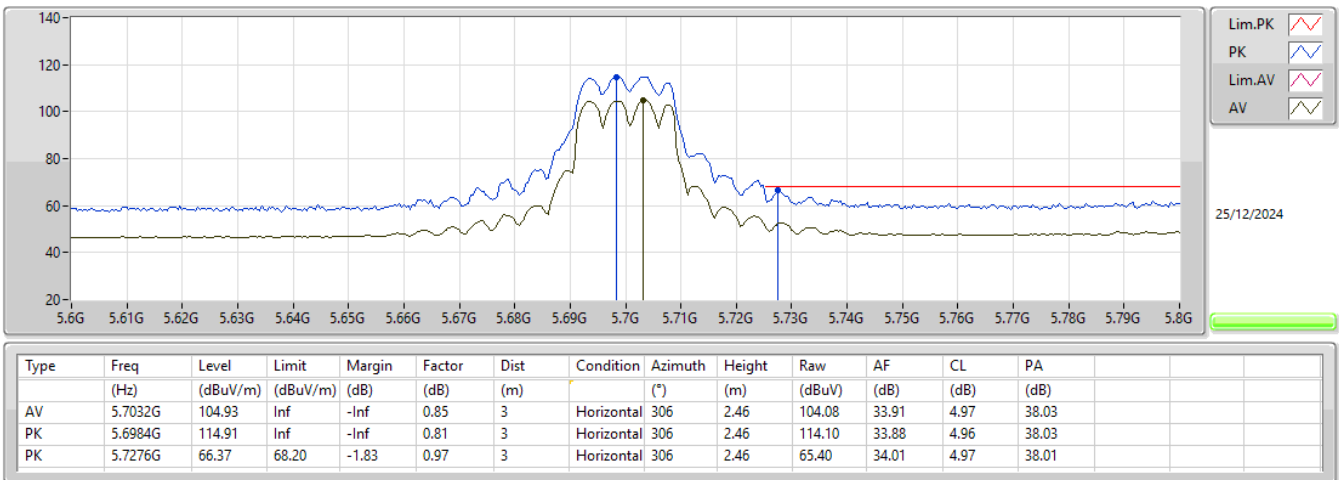
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5290MHz_TX



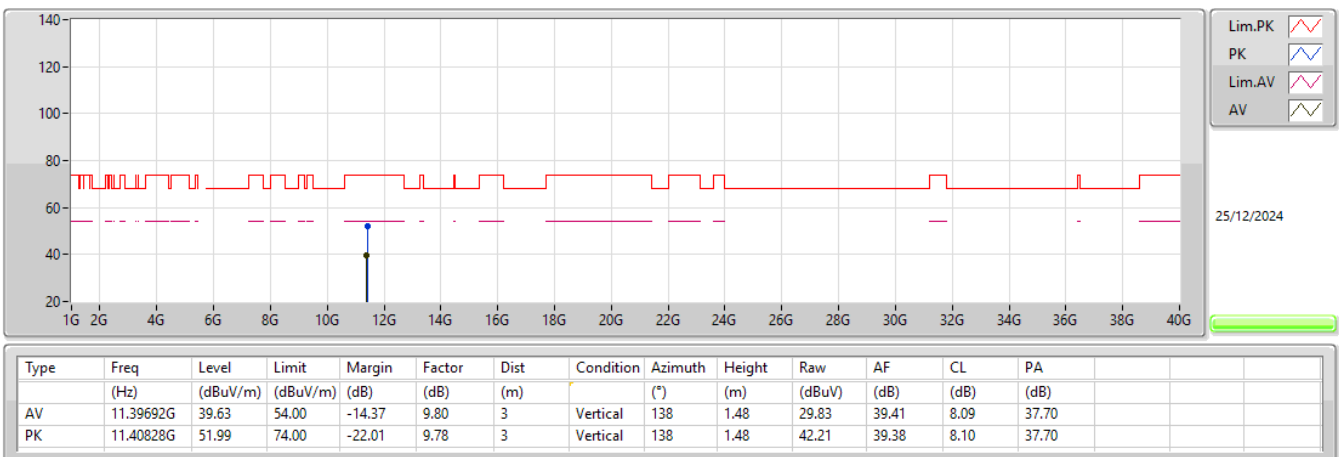
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX



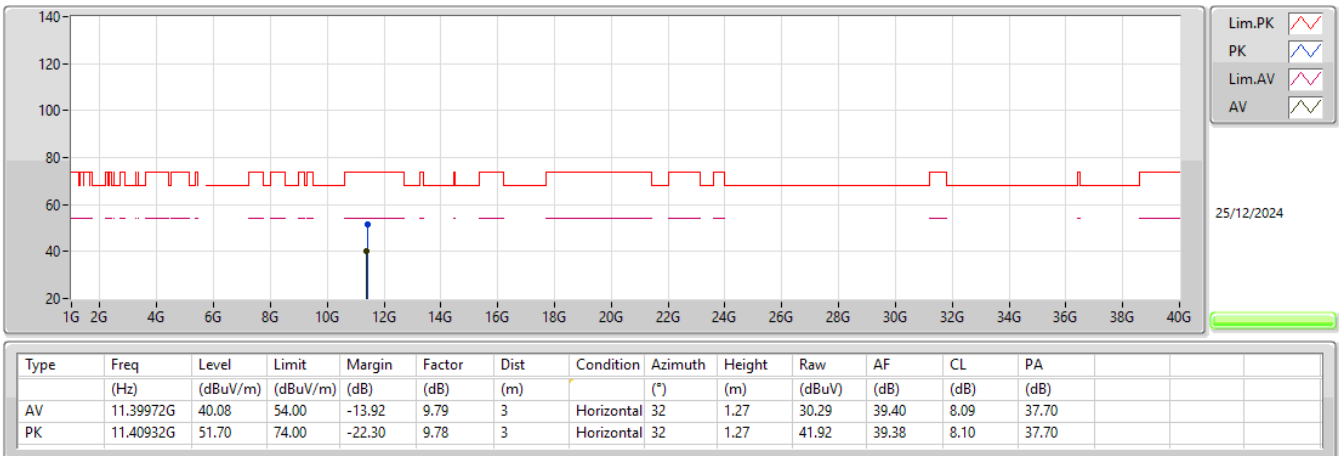
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_2TX

5700MHz_TX



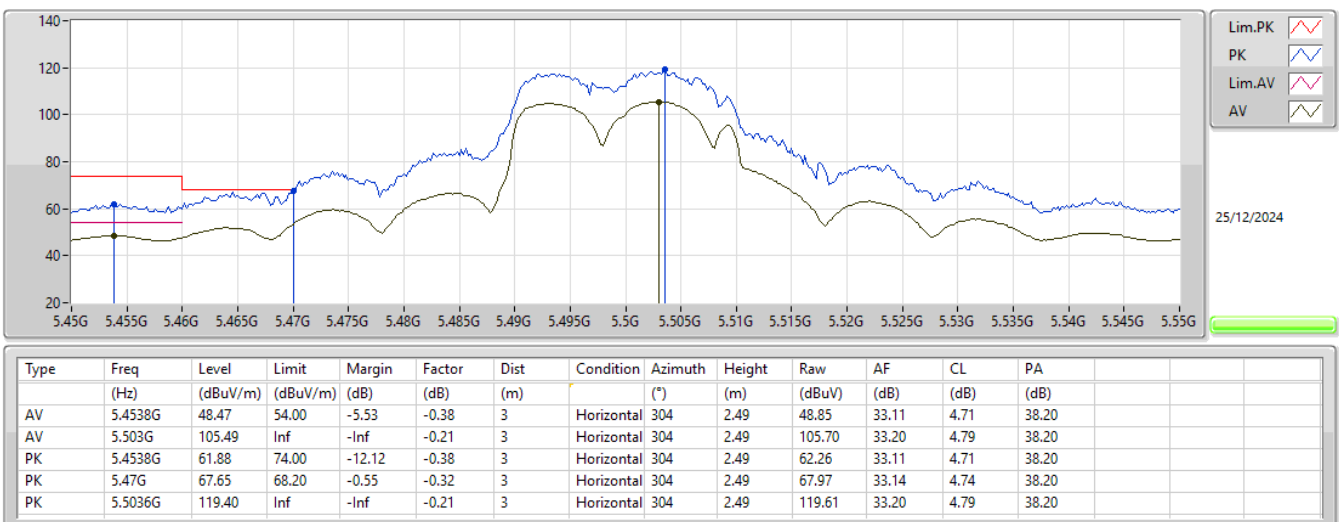
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5700MHz_TX



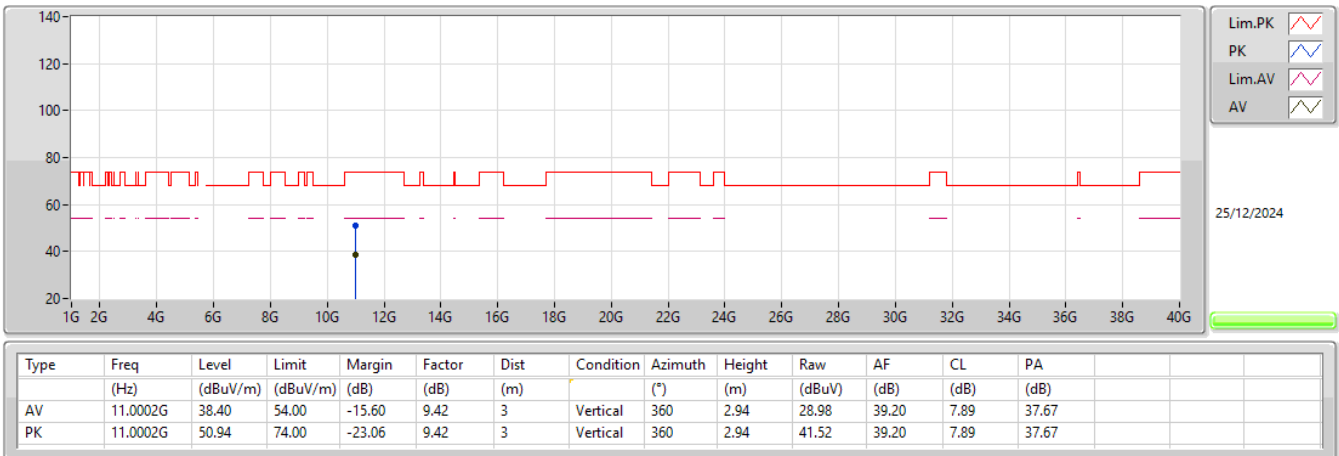
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5500MHz_TX



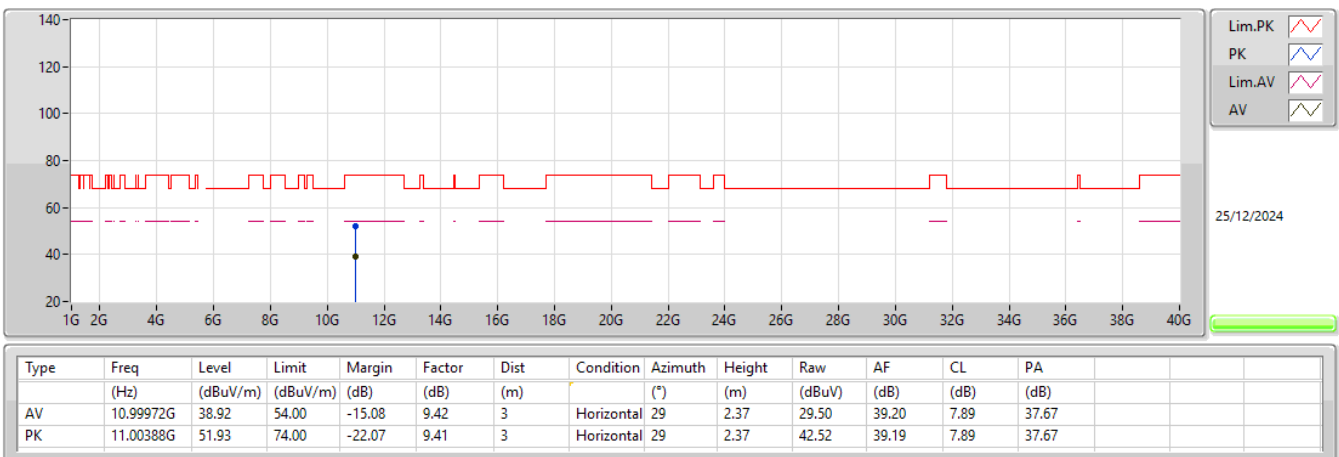
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5500MHz_TX



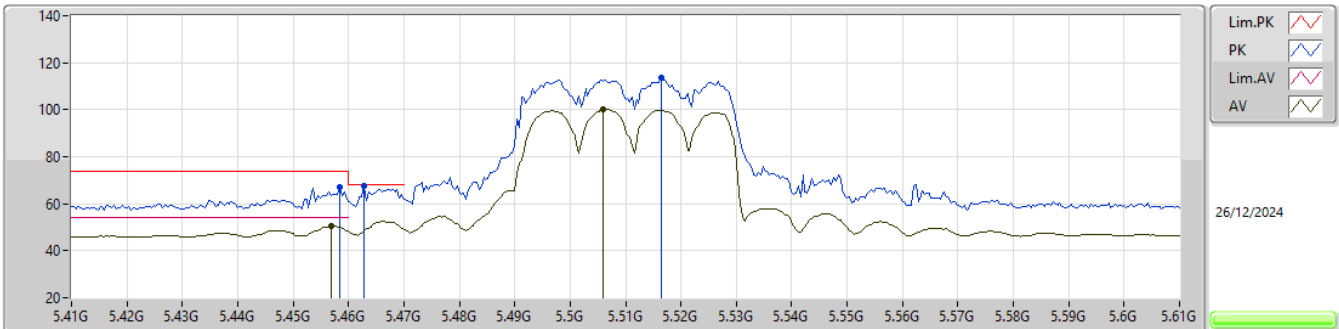
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TX



5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

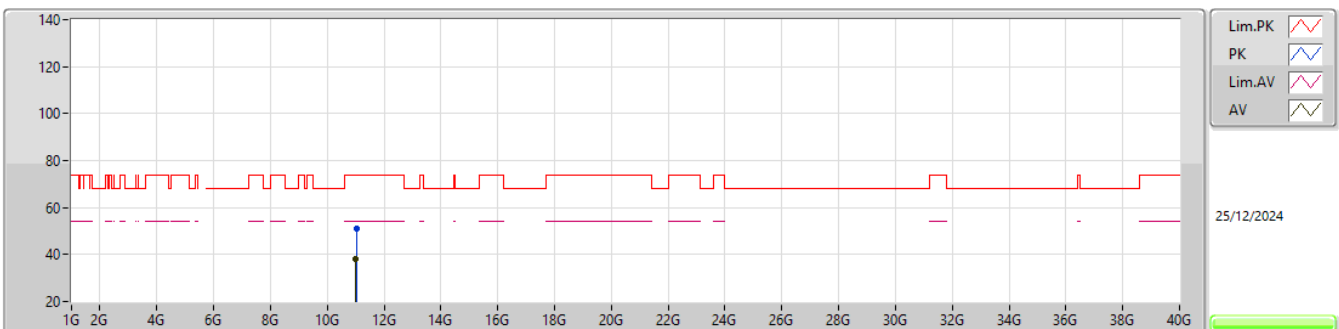
5510MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.4568G	50.54	54.00	-3.46	-0.37	3	Horizontal	304	2.72	50.91	33.11	4.72	38.20
AV	5.506G	100.07	Inf	-Inf	-0.20	3	Horizontal	304	2.72	100.27	33.20	4.79	38.19
PK	5.4584G	67.09	74.00	-6.91	-0.36	3	Horizontal	304	2.72	67.45	33.12	4.72	38.20
PK	5.4628G	67.46	68.20	-0.74	-0.34	3	Horizontal	304	2.72	67.80	33.13	4.73	38.20
PK	5.5164G	113.40	Inf	-Inf	-0.18	3	Horizontal	304	2.72	113.58	33.20	4.81	38.19

5.47-5.725GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

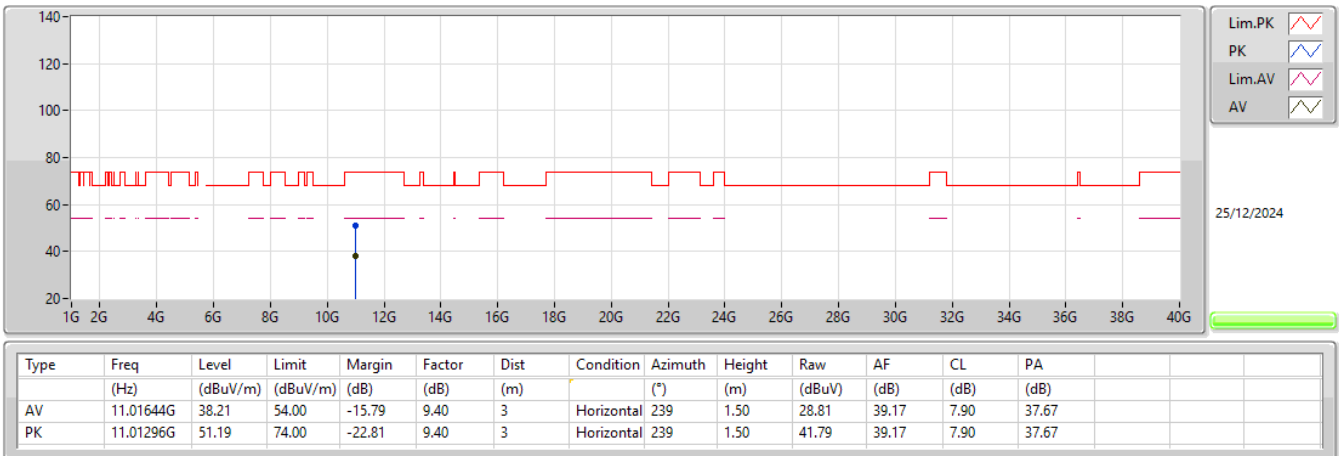
5510MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.01312G	38.20	54.00	-15.80	9.40	3	Vertical	54	1.50	28.80	39.17	7.90	37.67
PK	11.01732G	51.25	74.00	-22.75	9.40	3	Vertical	54	1.50	41.85	39.17	7.90	37.67

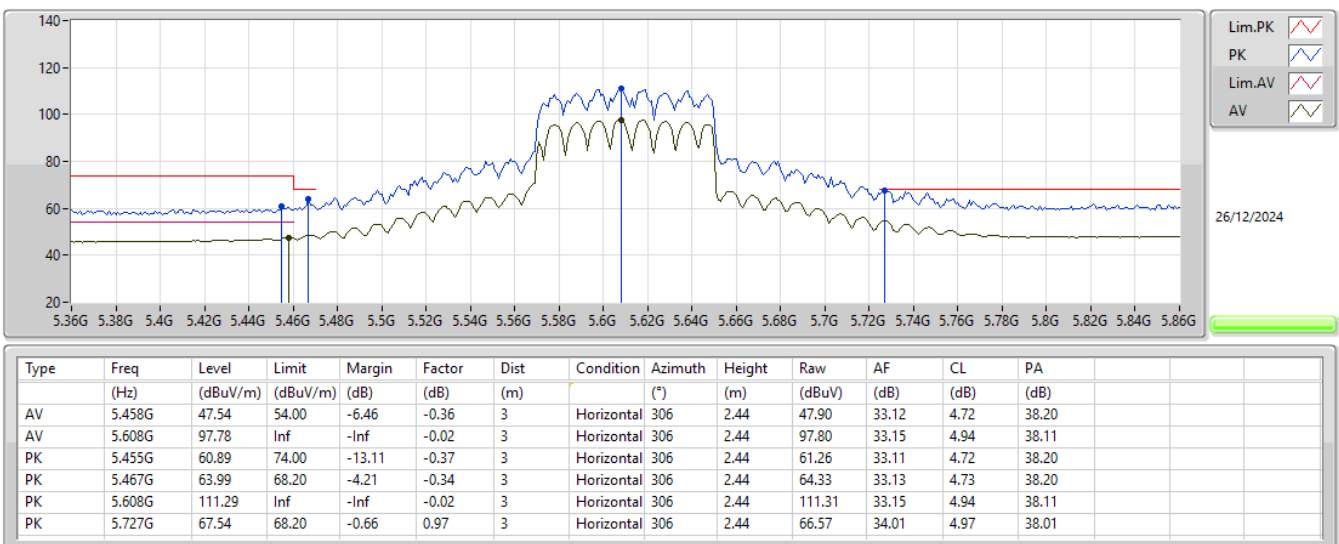
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5510MHz_TX



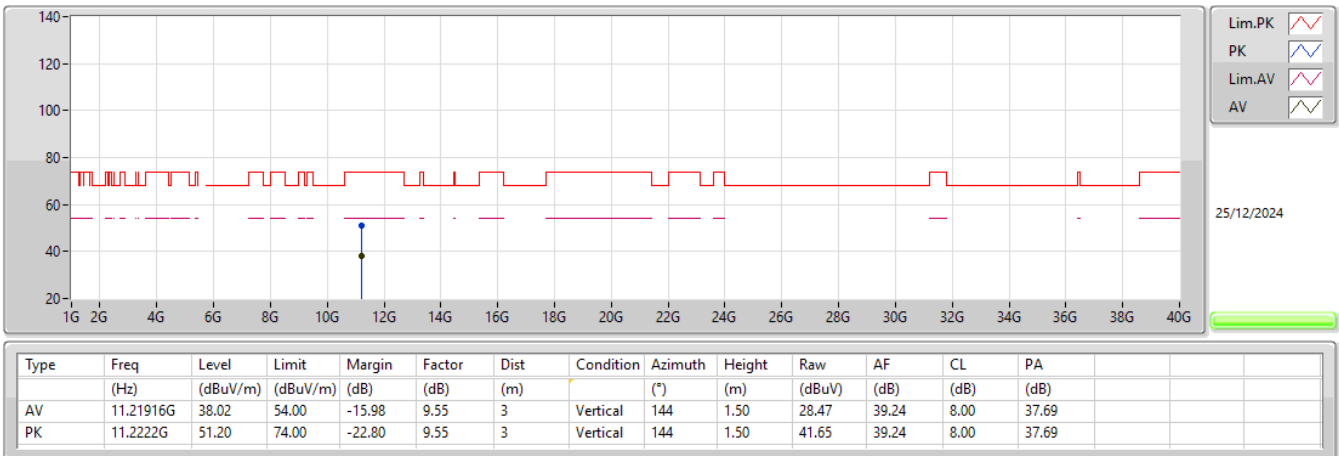
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5610MHz_TX



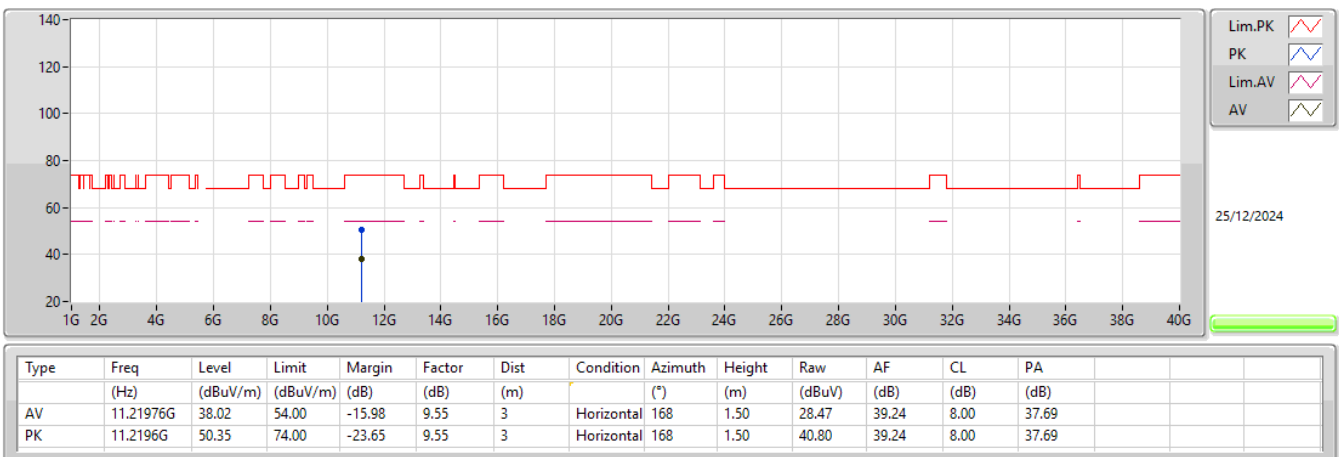
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5610MHz_TX



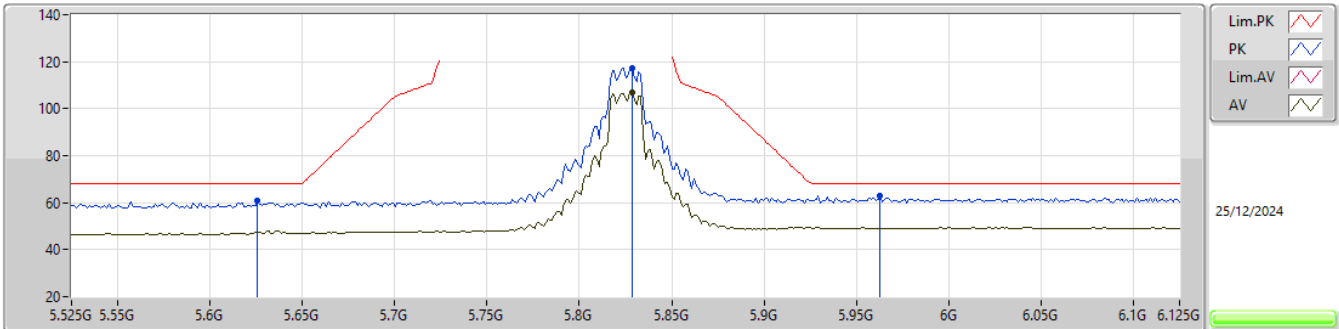
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5610MHz_TX



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

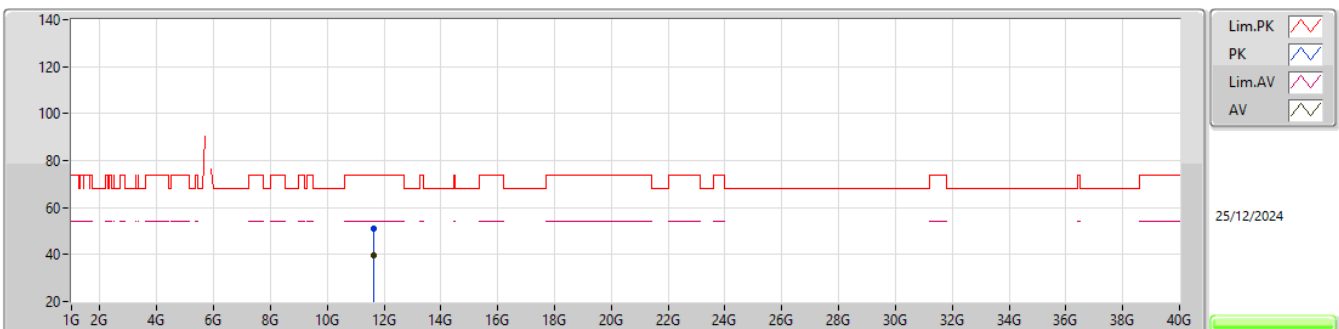
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8286G	107.01	Inf	-Inf	1.47	3	Horizontal	303	2.48	105.54	34.36	5.03	37.92
PK	5.6258G	60.70	68.20	-7.50	0.11	3	Horizontal	303	2.48	60.59	33.25	4.95	38.09
PK	5.8286G	117.15	Inf	-Inf	1.47	3	Horizontal	303	2.48	115.68	34.36	5.03	37.92
PK	5.963G	62.73	68.20	-5.47	1.92	3	Horizontal	303	2.48	60.81	34.50	5.23	37.81

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

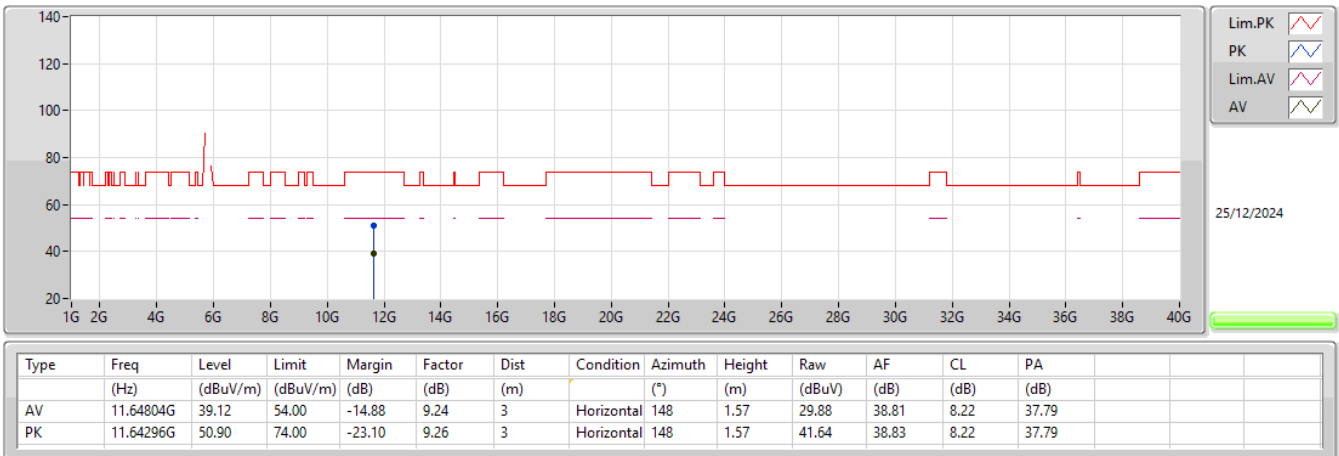
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.64996G	39.46	54.00	-14.54	9.23	3	Vertical	124	2.42	30.23	38.80	8.22	37.79
PK	11.64988G	51.23	74.00	-22.77	9.23	3	Vertical	124	2.42	42.00	38.80	8.22	37.79

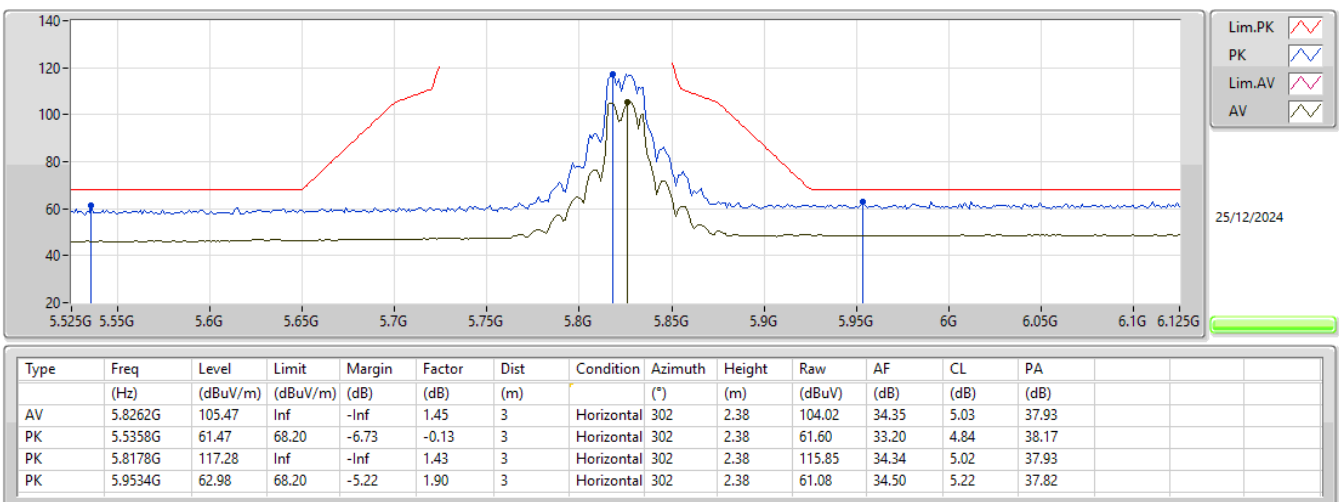
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5825MHz_TX



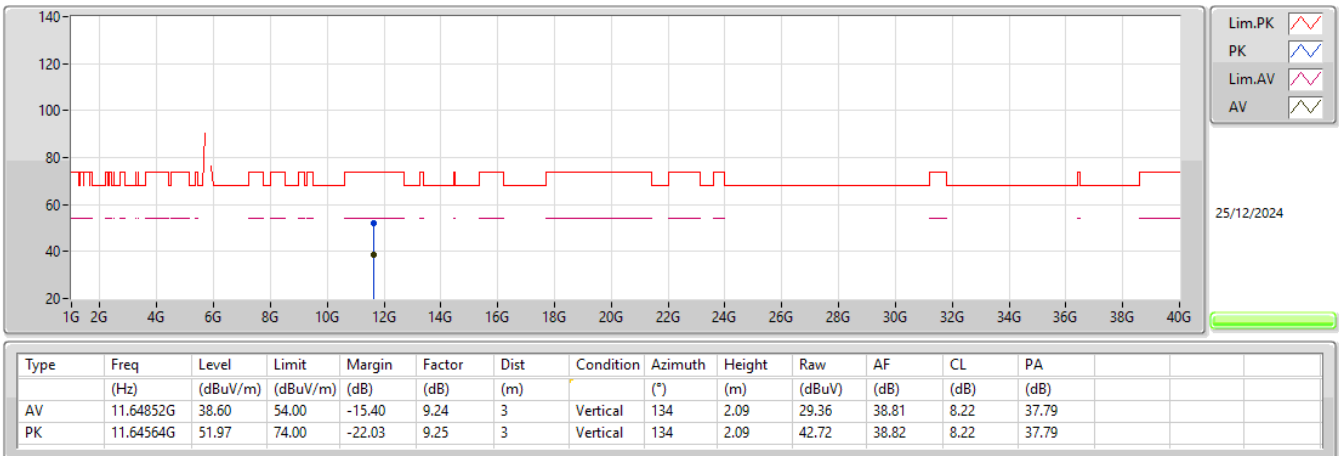
5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5825MHz_TX



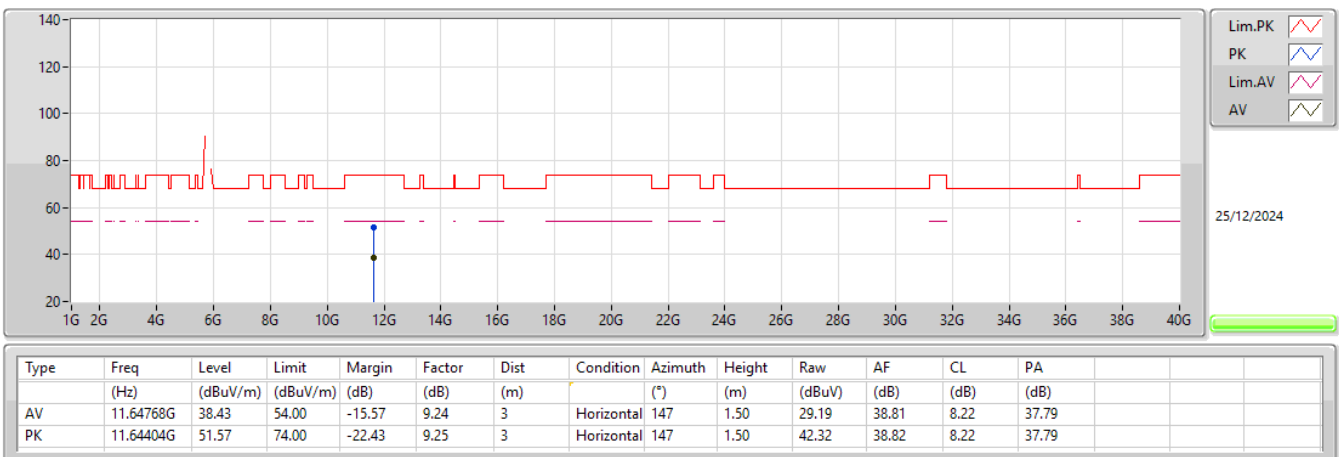
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5825MHz_TX



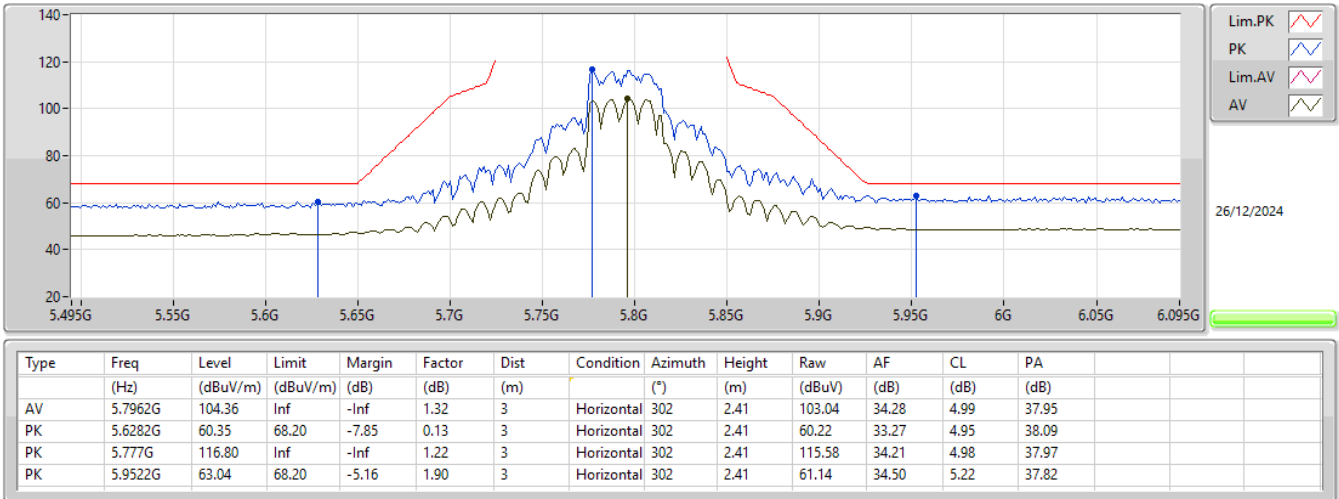
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5825MHz_TX



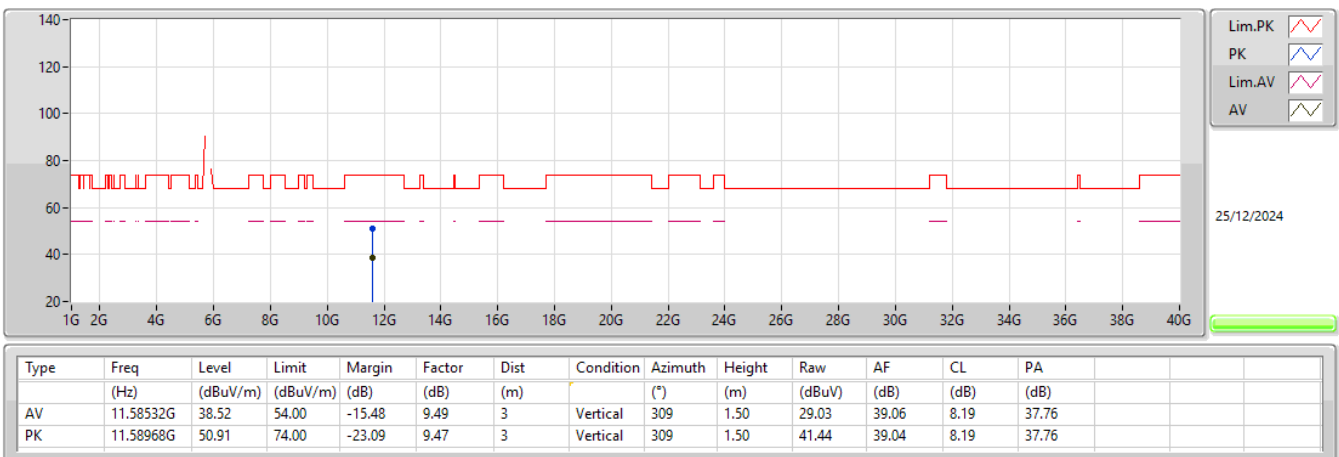
5.725-5.85GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

5795MHz_TX



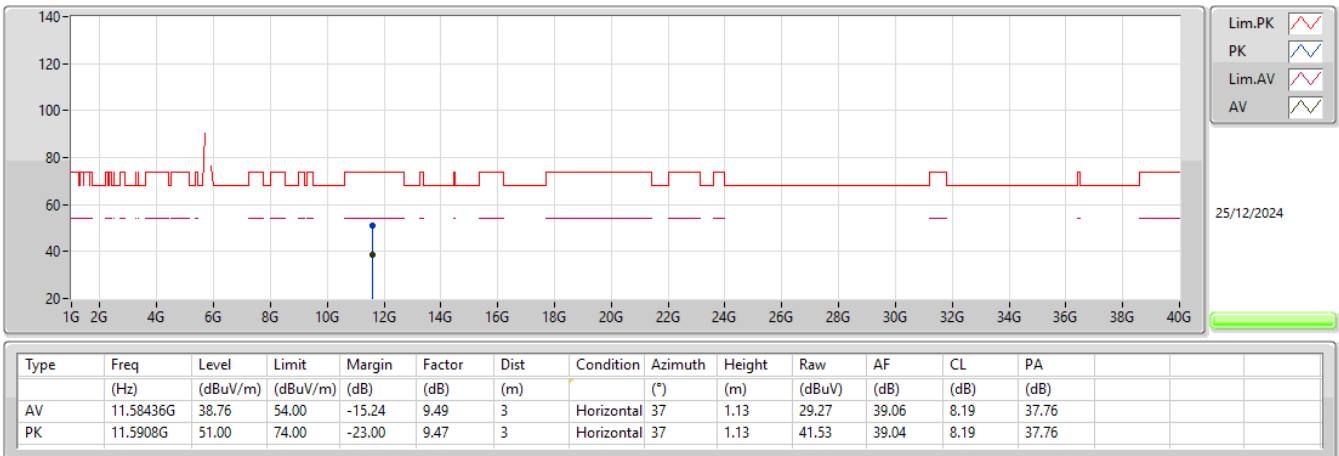
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5795MHz_TX



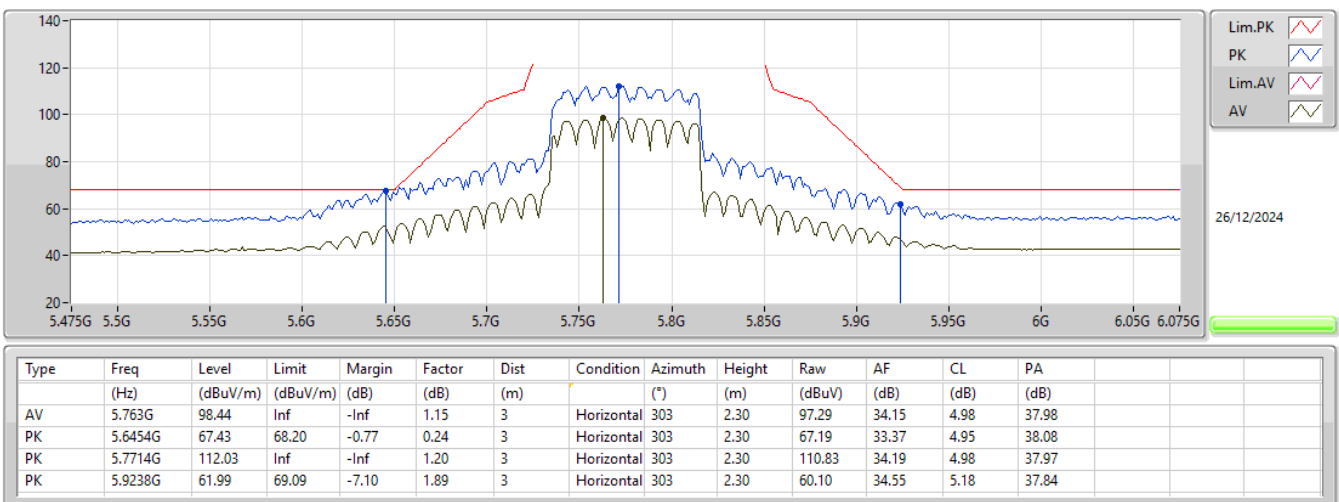
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5795MHz_TX



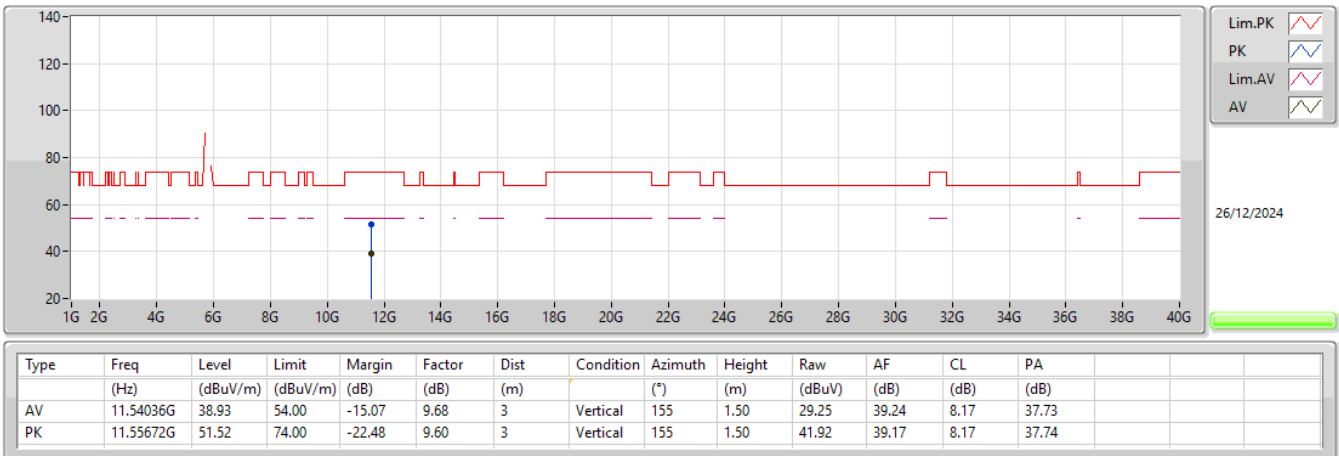
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TX



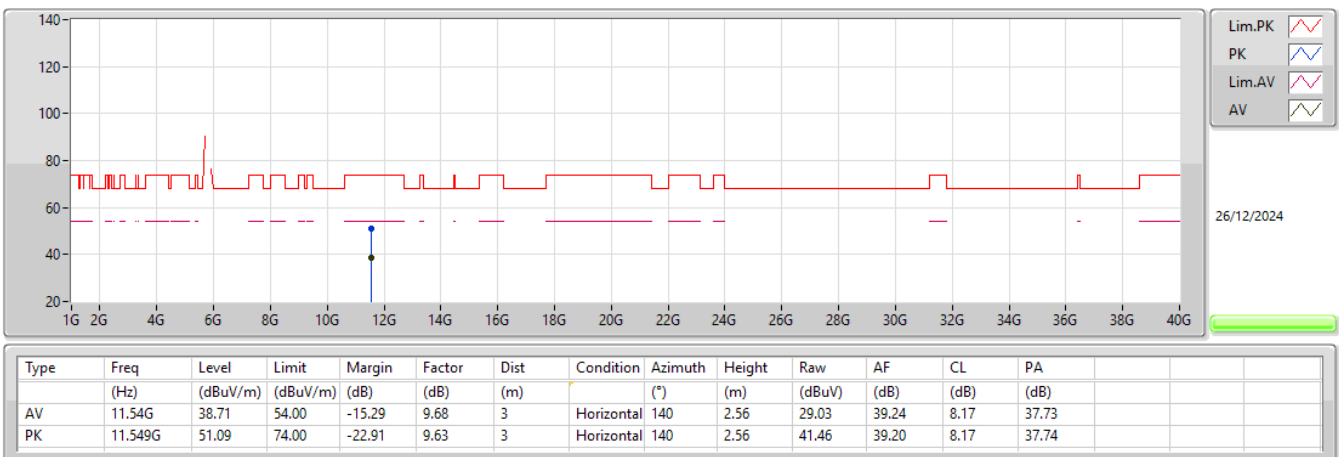
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TX



5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TX





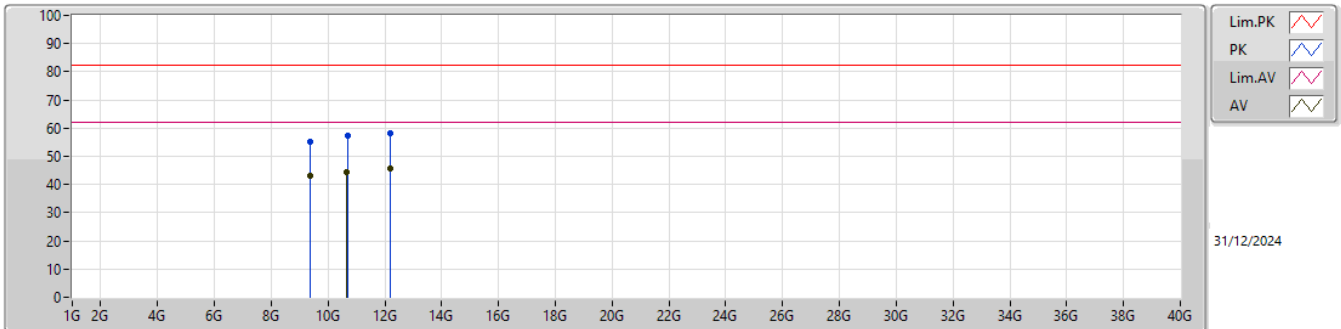
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	13.388G	47.35	62.20	-14.85	Horizontal

Result

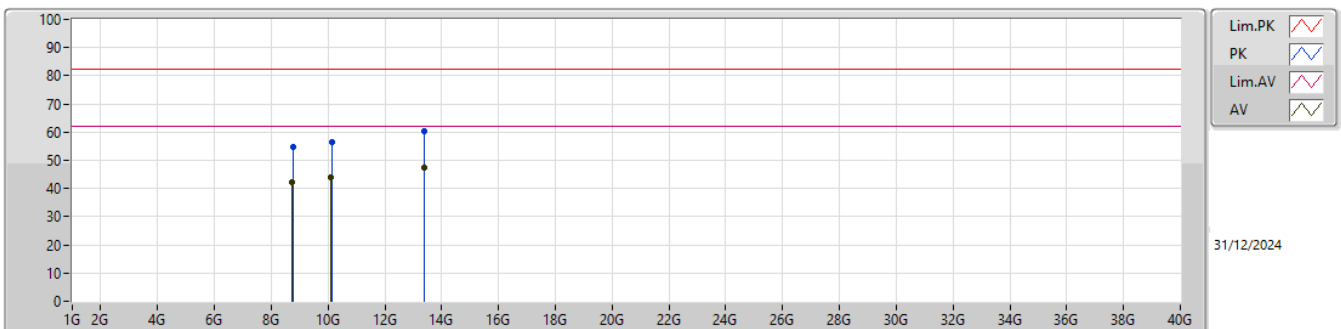
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	9.377G	43.16	62.20	-19.04	3	Vertical	360	1.01
Mode 1	Pass	AV	10.675G	44.47	62.20	-17.73	3	Vertical	42	3.00
Mode 1	Pass	AV	12.183G	45.49	62.20	-16.71	3	Vertical	360	2.42
Mode 1	Pass	PK	9.362G	55.21	82.20	-26.99	3	Vertical	360	1.01
Mode 1	Pass	PK	10.69G	57.34	82.20	-24.86	3	Vertical	42	3.00
Mode 1	Pass	PK	12.198G	58.34	82.20	-23.86	3	Vertical	360	2.42
Mode 1	Pass	AV	8.75021G	42.16	62.20	-20.04	3	Horizontal	360	1.50
Mode 1	Pass	AV	10.117G	43.88	62.20	-18.32	3	Horizontal	240	3.00
Mode 1	Pass	AV	13.388G	47.35	62.20	-14.85	3	Horizontal	65	2.00
Mode 1	Pass	PK	8.755G	54.54	82.20	-27.66	3	Horizontal	360	1.50
Mode 1	Pass	PK	10.132G	56.61	82.20	-25.59	3	Horizontal	240	3.00
Mode 1	Pass	PK	13.403G	60.34	82.20	-21.86	3	Horizontal	65	2.00

Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	9.377G	43.16	62.20	-19.04	13.16	3	Vertical	360	1.01	30.00	38.41	9.57	34.82
AV	10.675G	44.47	62.20	-17.73	14.93	3	Vertical	42	3.00	29.54	38.95	10.41	34.43
AV	12.183G	45.49	62.20	-16.71	16.18	3	Vertical	360	2.42	29.31	39.20	10.82	33.84
PK	9.362G	55.21	82.20	-26.99	13.08	3	Vertical	360	1.01	42.13	38.35	9.54	34.81
PK	10.69G	57.34	82.20	-24.86	14.91	3	Vertical	42	3.00	42.43	38.92	10.41	34.42
PK	12.198G	58.34	82.20	-23.86	16.20	3	Vertical	360	2.42	42.14	39.20	10.83	33.83

Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	8.75021G	42.16	62.20	-20.04	11.86	3	Horizontal	360	1.50	30.30	37.70	8.98	34.82
AV	10.117G	43.88	62.20	-18.32	13.85	3	Horizontal	240	3.00	30.03	38.53	10.28	34.96
AV	13.388G	47.35	62.20	-14.85	19.49	3	Horizontal	65	2.00	27.86	40.10	11.53	32.14
PK	8.755G	54.54	82.20	-27.66	11.87	3	Horizontal	360	1.50	42.67	37.71	8.98	34.82
PK	10.132G	56.61	82.20	-25.59	13.89	3	Horizontal	240	3.00	42.72	38.56	10.28	34.95
PK	13.403G	60.34	82.20	-21.86	19.53	3	Horizontal	65	2.00	40.81	40.11	11.54	32.12