

FCC Radio Test Report

FCC ID : 2ABLK-GS2029E
Equipment : GigaSpire
Brand Name : Calix
Model Name : u4.2 GS2029E
Applicant : Calix Inc.
1035 N. McDowell Blvd. Petaluma, CA94954 U.S.A.
Manufacturer : Calix Inc.
1035 N. McDowell Blvd. Petaluma, CA94954 U.S.A.
Standard : 47 CFR FCC Part 15.407

The product was received on Sep. 30, 2024, and testing was started from Oct. 16, 2024 and completed on Nov. 12, 2024. 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.)



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Report Template No.: HE1-D1 Ver4.5
FCC ID: 2ABLK-GS2029E

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: Ben Tseng

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]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]
5725-5850		5775	155 [1]

Non-Beamforming

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

Beamforming

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	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
5.725-5.85GHz	802.11ax HEW40-BF	40	2TX
5.15-5.25GHz	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	Pegatron	1415-0AVK000	dipole	I-PEX	2.4G
2	Pegatron	1415-0AVJ000	dipole	I-PEX	2.4G
3	Pegatron	1415-0AVH000	dipole	I-PEX	5G
4	Pegatron	1415-0AVG000	dipole	I-PEX	5G

Ant.	Port	Gain (dBi)				
		2.4G	5G			
			UNII-1	UNII-2A	UNII-2C	UNII-3
1	1	3.26	-	-	-	-
2	2	2.75	-	-	-	-
3	1	-	3.43	3.51	3.58	3.91
4	2	-	3.08	3.51	3.36	3.39

		Composite Gain (dBi)				
		2.4G	5G			
			UNII-1	UNII-2A	UNII-2C	UNII-3
DG [1SS]		4.1	4.6	4.5	4.8	5.1

Note 1: The EUT has four antennas.

For 2.4GHz function:

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

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

1.1.3 EUT Information

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

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11a_Nss1,(6Mbps)_2TX	0.961	0.17	1.977m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.977	0.1	5.419m	200
802.11ax HEW40_Nss1,(MCS0)_2TX	0.977	0.1	3.842m	300
802.11ax HEW80_Nss1,(MCS0)_2TX	0.958	0.19	2.201m	500

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

Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.977	0.1	5.419m	200
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.977	0.1	3.842m	300
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	0.958	0.19	2.201m	500

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

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 662911 D01 v02r01
- ♦ KDB 662911 D03 v01
- ♦ 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	22.1~23.6°C / 53~58%	25/Oct/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		FAX: 886-3-318-0287	
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH26-HY	Andy Wang	20.3~21.8°C / 50~56%	16/Oct/2024~24/Oct/2024
Radiated (Co-location)	03CH26-HY	Rian Chung	20.3~21.7°C / 54~56%	12/Nov/2024
RF Conducted	TH06-HY	Johnny Yu	23.4~23.9°C / 52~55%	24/Oct/2024

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	Qualcomm® Radio Control Toolkit v4.0
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Non-Beamforming

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5180MHz	22
5200MHz	24
5240MHz	24
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5180MHz	23.5
5200MHz	24
5240MHz	24
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5190MHz	21
5230MHz	24
5755MHz	24
5795MHz	24
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5210MHz	19.5
5775MHz	22

**Beamforming**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
5180MHz	23.5
5200MHz	24
5240MHz	24
5745MHz	24
5785MHz	24
5825MHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
5190MHz	21
5230MHz	24
5755MHz	24
5795MHz	24
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-
5210MHz	19.5
5775MHz	22

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	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
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA491301 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	



2.3 Accessories

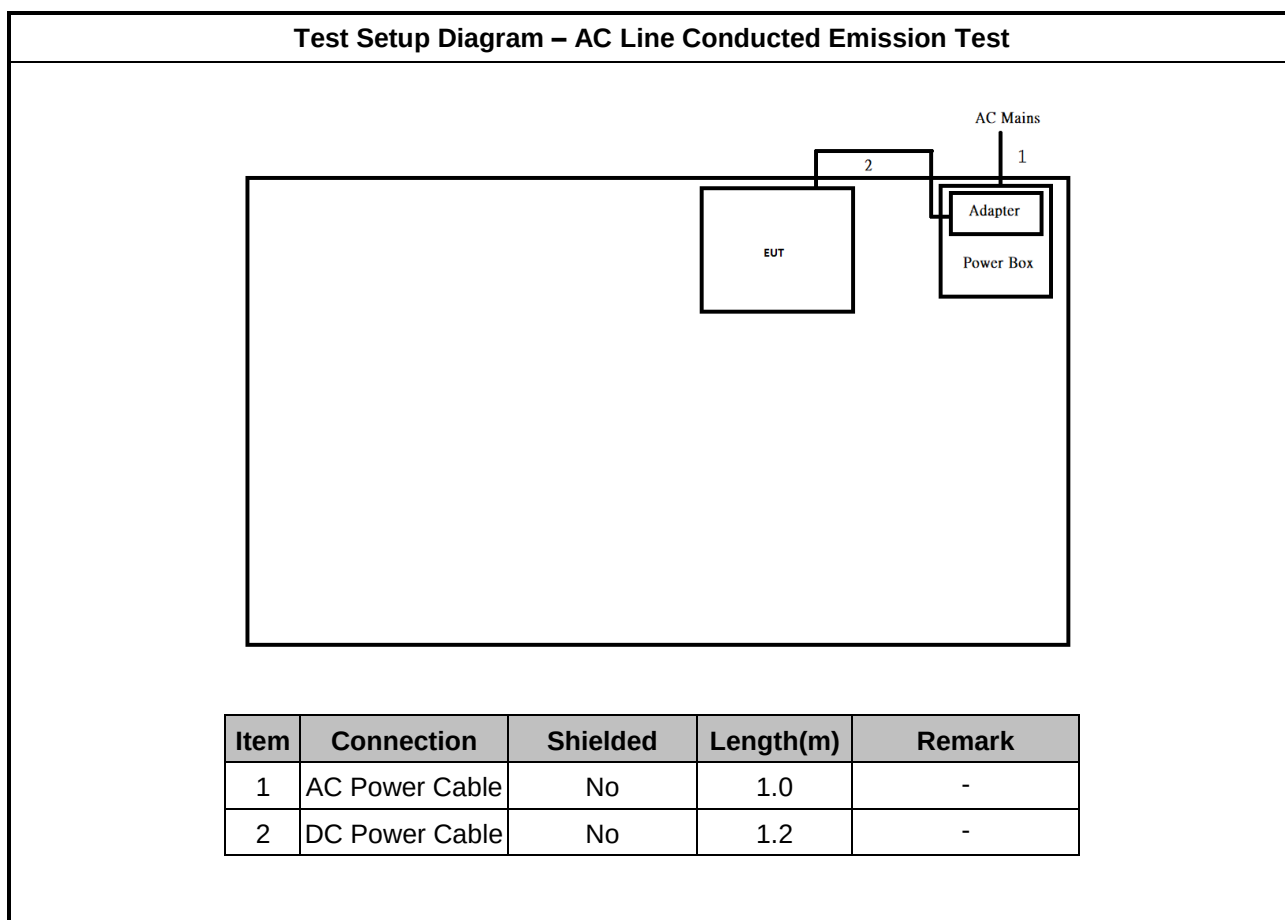
Accessories				
AC/DC Adaptor	Brand Name	MOSO	Model Name	MS-V2000R120-024Q0-US
	Power Rating	I/P: 100- 240Vac, 0.7A, O/P: 12.0 Vdc, 2.0 A		

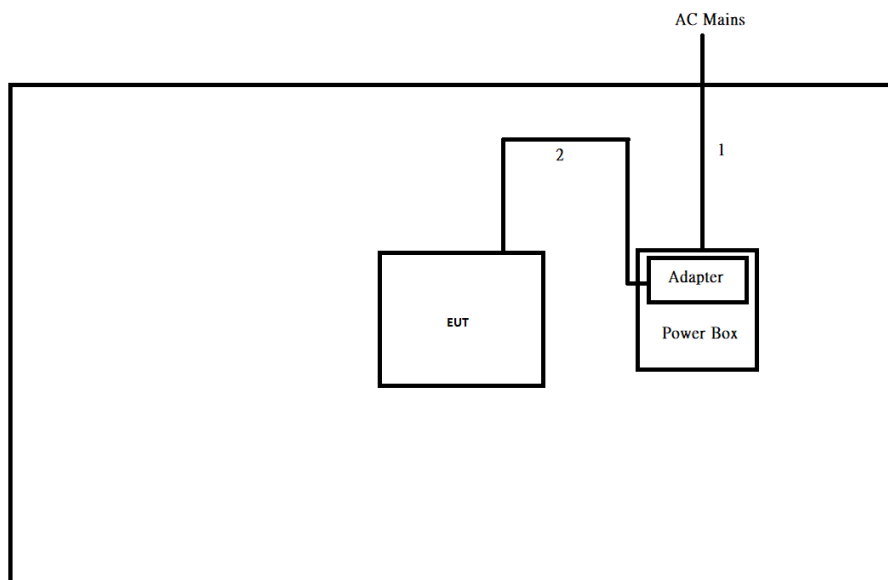
Reminder: Regarding to more detail and other information, please refer to user manual.

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	-	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.2	-

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

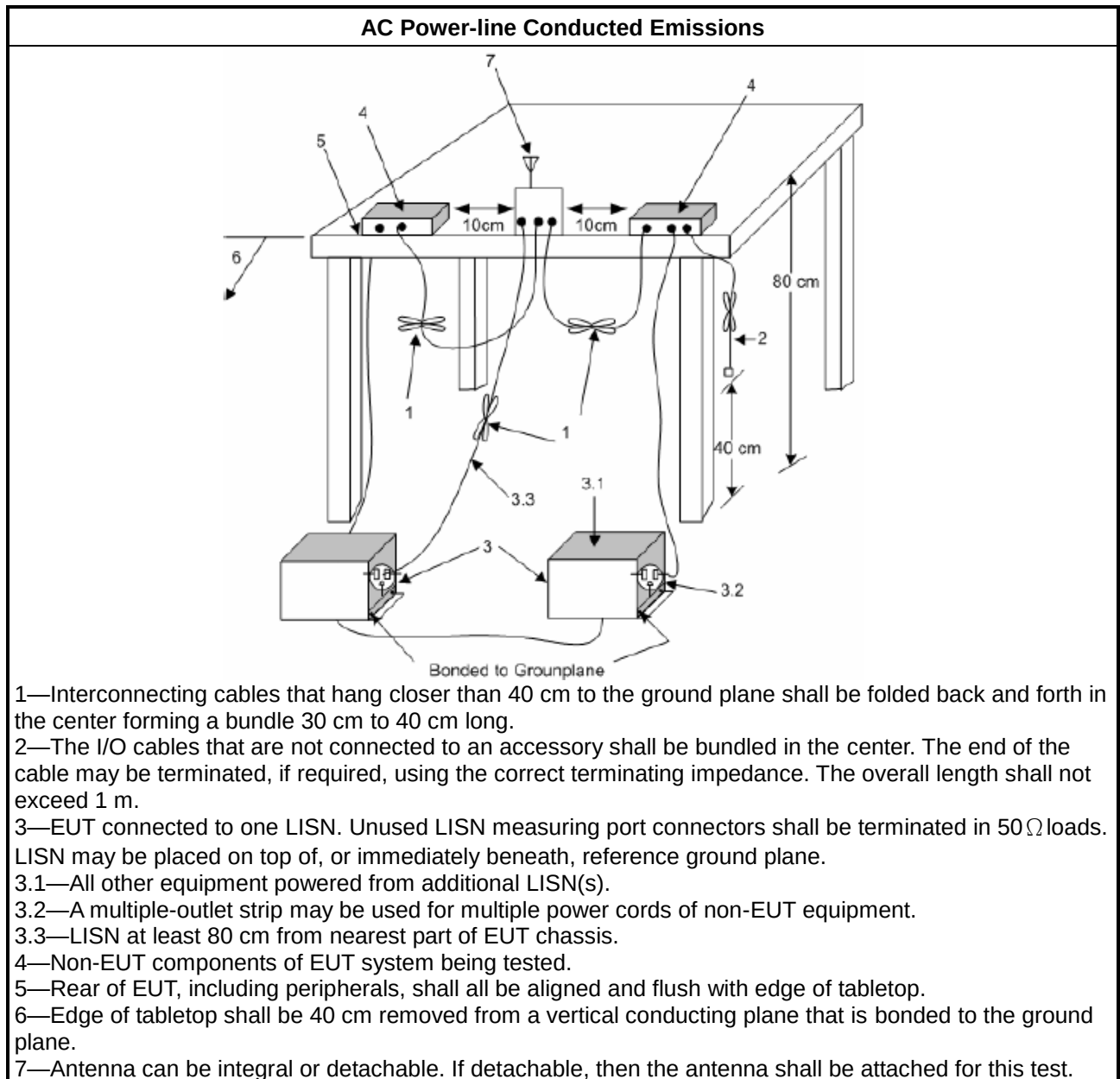
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

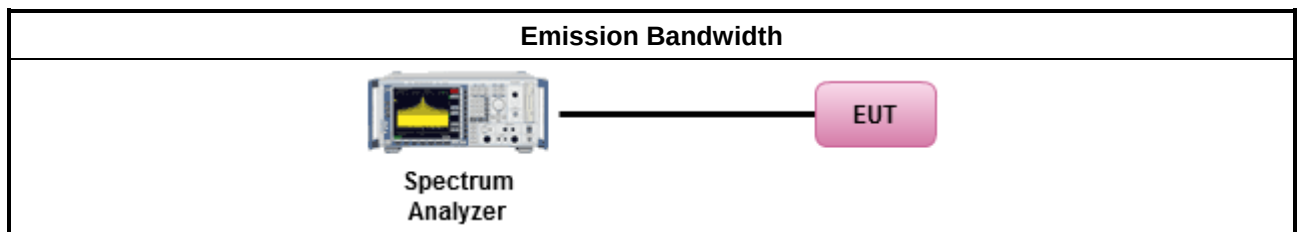
3.2.2 Measuring Instruments

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.	

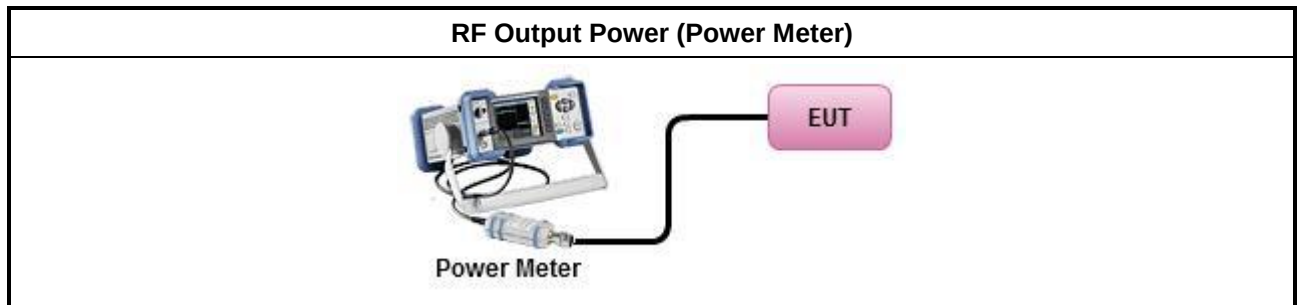
3.3.2 Measuring Instruments

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



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.	

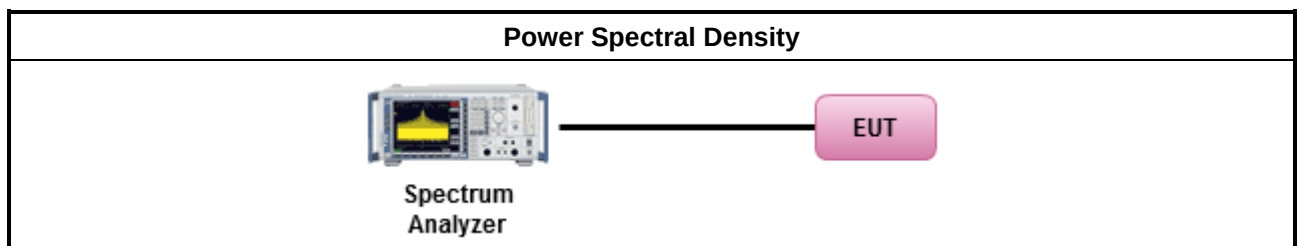
3.4.2 Measuring Instruments

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

3.4.4 Test Setup



3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	5.650-5700 GHz: e.i.r.p. -27 ~ 10 dBm [68.2 ~ 105.2 dBuV/m@3m] 5.700-5720 GHz: e.i.r.p. 10 ~ 15.6 dBm [105.2 ~ 110.8 dBuV/m@3m] 5.720-5725 GHz: e.i.r.p. 15.6 ~ 27 dBm [110.8 ~ 122.2 dBuV/m@3m] 5.850-5.855 GHz: e.i.r.p. 27 ~ 15.6 dBm [122.2 ~ 110.8 dBuV/m@3m] 5.855-5.875 GHz: e.i.r.p. 15.6 ~ 10 dBm [110.8 ~ 105.2 dBuV/m@3m] 5.875-5.925 GHz: e.i.r.p. 10 ~ -27 dBm [105.2 ~ 68.2dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

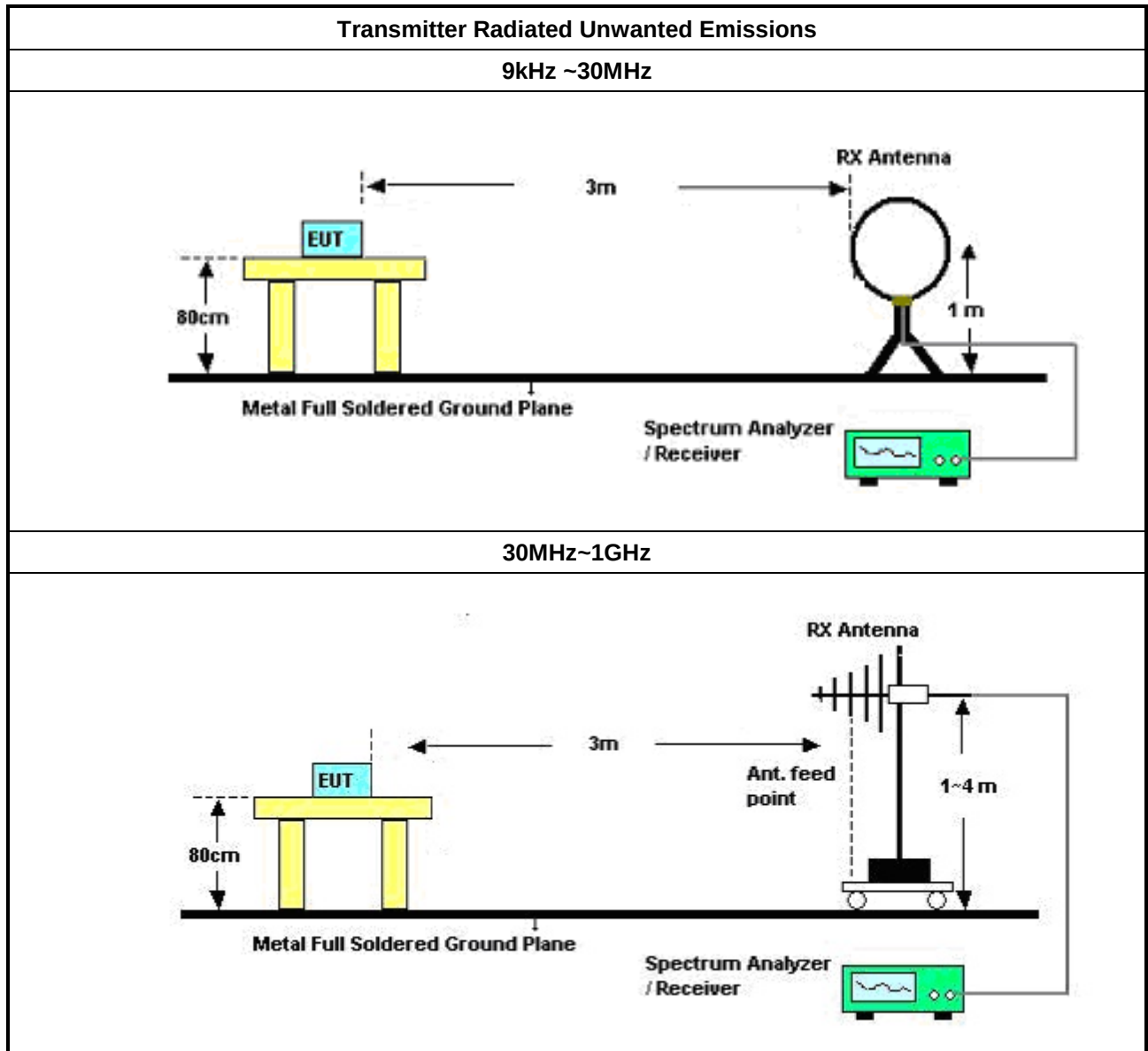
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 789033, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as KDB 789033, clause G)1) for unwanted emissions into restricted bands.
☒	Refer as KDB 789033, G)6) Method VB (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW.
☒	Refer as KDB 789033, clause G)5) (ANSI C63.10, clause 4.1.4.2.2), measurement procedure peak limit.
For radiated measurement.	
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
The any unwanted emissions level shall not exceed the fundamental emission level.	
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

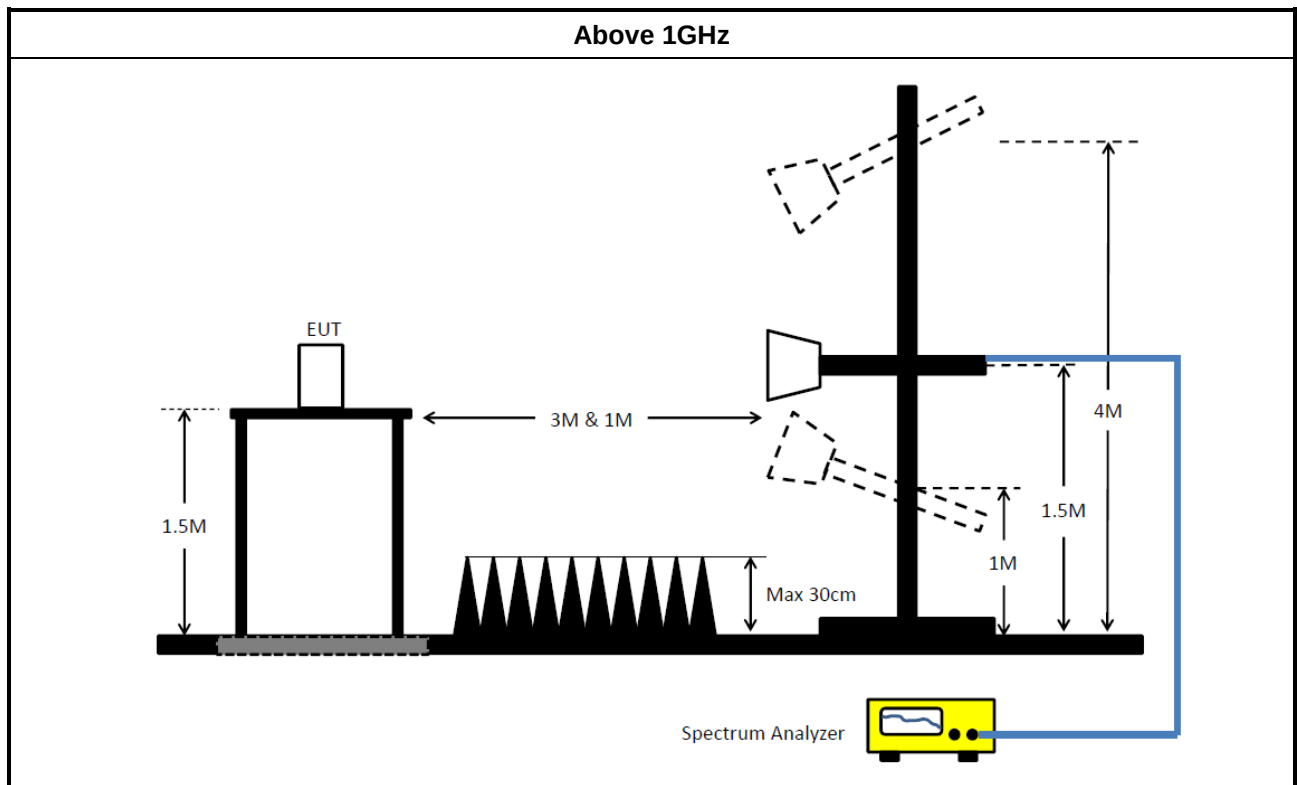
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.5.5 Test Setup





3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

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

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
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	FSV3044	101410	10Hz~44GHz	17/Nov/2023	16/Nov/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15407_NII	Sporton	V5.11.20	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	27/Dec/2023	26/Dec/2024
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	05/Oct/2024	04/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	05/Jun/2024	04/Jun/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	18/Oct/2023	17/Oct/2024
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Preamplifier	Agilent	8449B	3008A02602	1GHz ~18GHz	15/Mar/2024	14/Mar/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.18	NA	NA	NA	NA

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
SENSE-EMI	Sporton	V5.11.8	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

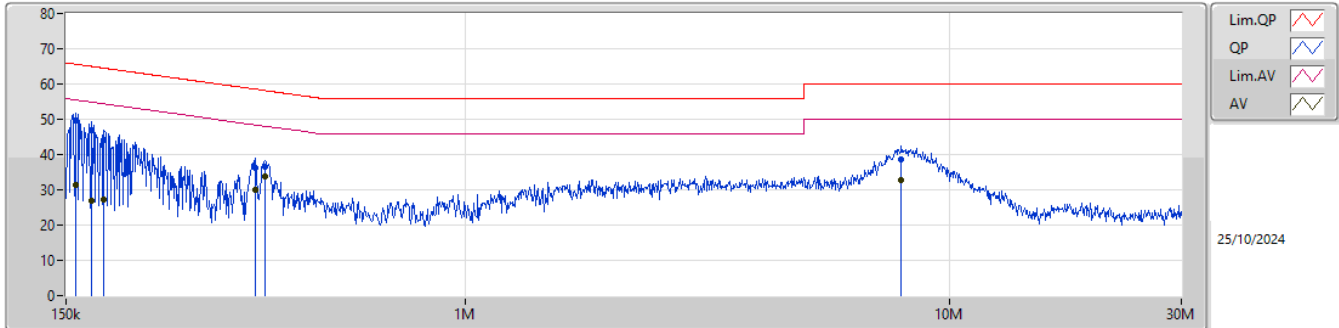
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	384.811k	34.99	48.18	-13.19	Neutral

Result

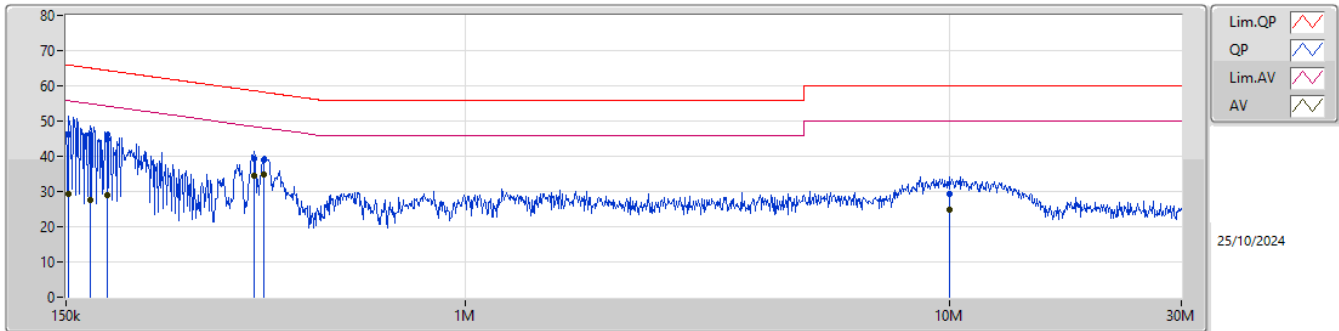
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.361k	49.49	65.60	-16.11	Line
Mode 1	Pass	AV	157.361k	31.35	55.60	-24.25	Line
Mode 1	Pass	QP	169.76k	46.74	64.97	-18.23	Line
Mode 1	Pass	AV	169.76k	26.90	54.97	-28.07	Line
Mode 1	Pass	QP	179.518k	44.02	64.51	-20.49	Line
Mode 1	Pass	AV	179.518k	27.19	54.51	-27.32	Line
Mode 1	Pass	QP	368.279k	36.24	58.54	-22.30	Line
Mode 1	Pass	AV	368.279k	29.92	48.54	-18.62	Line
Mode 1	Pass	QP	386.35k	36.46	58.14	-21.68	Line
Mode 1	Pass	AV	386.35k	33.64	48.14	-14.50	Line
Mode 1	Pass	QP	7.932M	38.59	60.00	-21.41	Line
Mode 1	Pass	AV	7.932M	32.78	50.00	-17.22	Line
Mode 1	Pass	QP	151.807k	46.16	65.90	-19.74	Neutral
Mode 1	Pass	AV	151.807k	29.39	55.90	-26.51	Neutral
Mode 1	Pass	QP	168.41k	46.33	65.04	-18.71	Neutral
Mode 1	Pass	AV	168.41k	27.66	55.04	-27.38	Neutral
Mode 1	Pass	QP	182.408k	44.75	64.37	-19.62	Neutral
Mode 1	Pass	AV	182.408k	29.13	54.37	-25.24	Neutral
Mode 1	Pass	QP	366.811k	39.45	58.58	-19.13	Neutral
Mode 1	Pass	AV	366.811k	34.49	48.58	-14.09	Neutral
Mode 1	Pass	QP	384.811k	38.87	58.18	-19.31	Neutral
Mode 1	Pass	AV	384.811k	34.99	48.18	-13.19	Neutral
Mode 1	Pass	QP	9.999M	29.19	60.00	-30.81	Neutral
Mode 1	Pass	AV	9.999M	24.69	50.00	-25.31	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	157.361k	49.49	65.60	-16.11	19.70	Line	-	29.79	9.66	0.07	9.97						
AV	157.361k	31.35	55.60	-24.25	19.70	Line	-	11.65	9.66	0.07	9.97						
QP	169.76k	46.74	64.97	-18.23	19.71	Line	-	27.03	9.66	0.08	9.97						
AV	169.76k	26.90	54.97	-28.07	19.71	Line	-	7.19	9.66	0.08	9.97						
QP	179.518k	44.02	64.51	-20.49	19.70	Line	-	24.32	9.65	0.08	9.97						
AV	179.518k	27.19	54.51	-27.32	19.70	Line	-	7.49	9.65	0.08	9.97						
QP	368.279k	36.24	58.54	-22.30	19.75	Line	-	16.49	9.65	0.12	9.98						
AV	368.279k	29.92	48.54	-18.62	19.75	Line	-	10.17	9.65	0.12	9.98						
QP	386.35k	36.46	58.14	-21.68	19.75	Line	-	16.71	9.65	0.12	9.98						
AV	386.35k	33.64	48.14	-14.50	19.75	Line	-	13.89	9.65	0.12	9.98						
QP	7.932M	38.59	60.00	-21.41	19.74	Line	-	18.85	9.70	0.06	9.98						
AV	7.932M	32.78	50.00	-17.22	19.74	Line	-	13.04	9.70	0.06	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	151.807k	46.16	65.90	-19.74	19.64	Neutral	-	26.52	9.60	0.07	9.97						
AV	151.807k	29.39	55.90	-26.51	19.64	Neutral	-	9.75	9.60	0.07	9.97						
QP	168.41k	46.33	65.04	-18.71	19.65	Neutral	-	26.68	9.60	0.08	9.97						
AV	168.41k	27.66	55.04	-27.38	19.65	Neutral	-	8.01	9.60	0.08	9.97						
QP	182.408k	44.75	64.37	-19.62	19.65	Neutral	-	25.10	9.60	0.08	9.97						
AV	182.408k	29.13	54.37	-25.24	19.65	Neutral	-	9.48	9.60	0.08	9.97						
QP	366.811k	39.45	58.58	-19.13	19.70	Neutral	-	19.75	9.60	0.12	9.98						
AV	366.811k	34.49	48.58	-14.09	19.70	Neutral	-	14.79	9.60	0.12	9.98						
QP	384.811k	38.87	58.18	-19.31	19.70	Neutral	-	19.17	9.60	0.12	9.98						
AV	384.811k	34.99	48.18	-13.19	19.70	Neutral	-	15.29	9.60	0.12	9.98						
QP	9.999M	29.19	60.00	-30.81	19.69	Neutral	-	9.50	9.66	0.05	9.98						
AV	9.999M	24.69	50.00	-25.31	19.69	Neutral	-	5.00	9.66	0.05	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	20.185M	16.434M	16M4D1D	19.03M	16.33M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.12M	18.951M	19M0D1D	19.855M	18.842M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.03M	37.833M	37M8D1D	39.27M	37.586M
802.11ax HEW80_Nss1,(MCS0)_2TX	80.96M	77.288M	77M3D1D	80.52M	76.757M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.445M	16.4M	16M4D1D	15.895M	16.341M
802.11ax HEW20_Nss1,(MCS0)_2TX	19.03M	18.961M	19M0D1D	18.37M	18.853M
802.11ax HEW40_Nss1,(MCS0)_2TX	38.06M	37.846M	37M8D1D	37.4M	37.746M
802.11ax HEW80_Nss1,(MCS0)_2TX	77.88M	77.284M	77M3D1D	77.66M	76.886M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	19.195M	16.33M	19.03M	16.405M
5200MHz	Pass	Inf	19.195M	16.393M	20.185M	16.434M
5240MHz	Pass	Inf	19.69M	16.409M	19.69M	16.377M
5745MHz	Pass	500k	16.445M	16.375M	15.895M	16.383M
5785MHz	Pass	500k	16.39M	16.4M	16.335M	16.394M
5825MHz	Pass	500k	16.39M	16.341M	16.39M	16.376M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.35M	18.872M	19.855M	18.842M
5200MHz	Pass	Inf	21.12M	18.951M	20.13M	18.948M
5240MHz	Pass	Inf	20.46M	18.893M	20.35M	18.87M
5745MHz	Pass	500k	19.03M	18.915M	19.03M	18.938M
5785MHz	Pass	500k	18.975M	18.869M	19.03M	18.853M
5825MHz	Pass	500k	19.03M	18.961M	18.37M	18.895M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	41.03M	37.605M	39.27M	37.833M
5230MHz	Pass	Inf	39.6M	37.788M	39.71M	37.586M
5755MHz	Pass	500k	37.4M	37.846M	38.06M	37.746M
5795MHz	Pass	500k	37.95M	37.844M	38.06M	37.815M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	80.96M	77.288M	80.52M	76.757M
5775MHz	Pass	500k	77.88M	77.284M	77.66M	76.886M

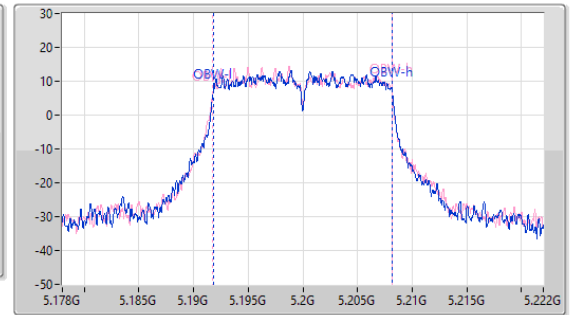
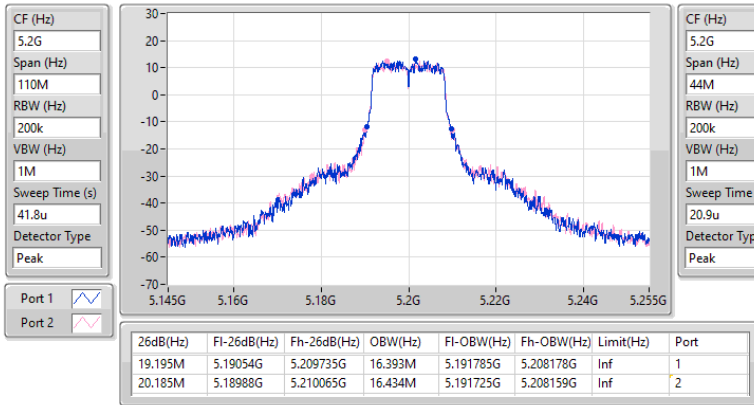
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

5200MHz

24/10/2024

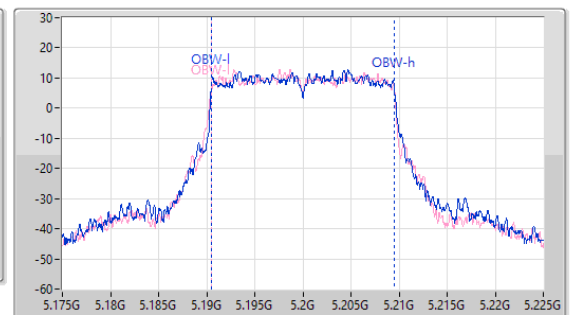
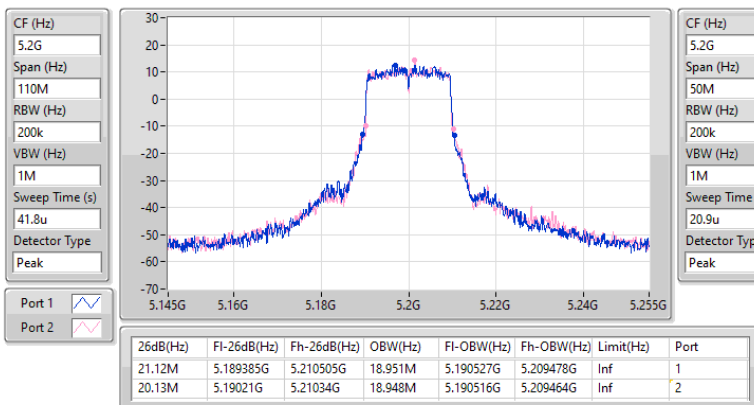


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

24/10/2024

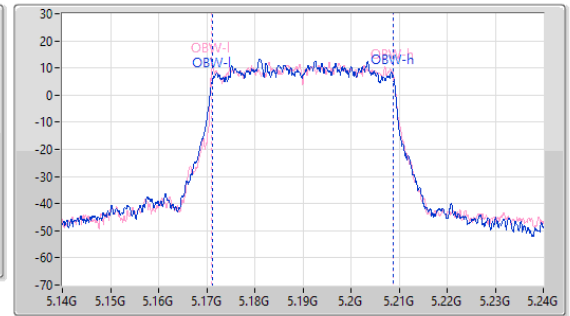
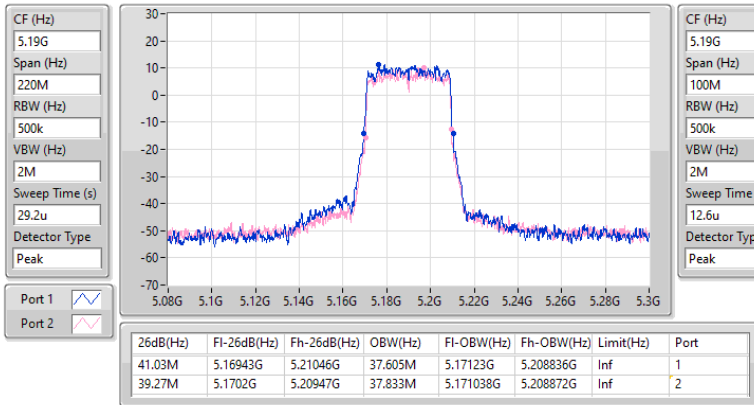


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

24/10/2024

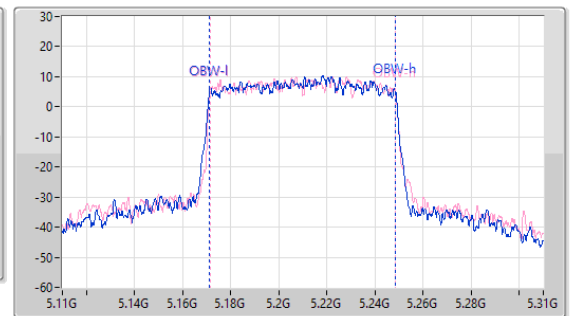
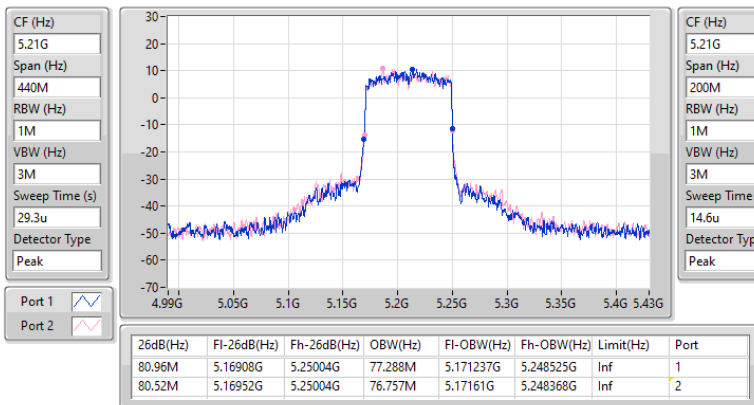


5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

24/10/2024

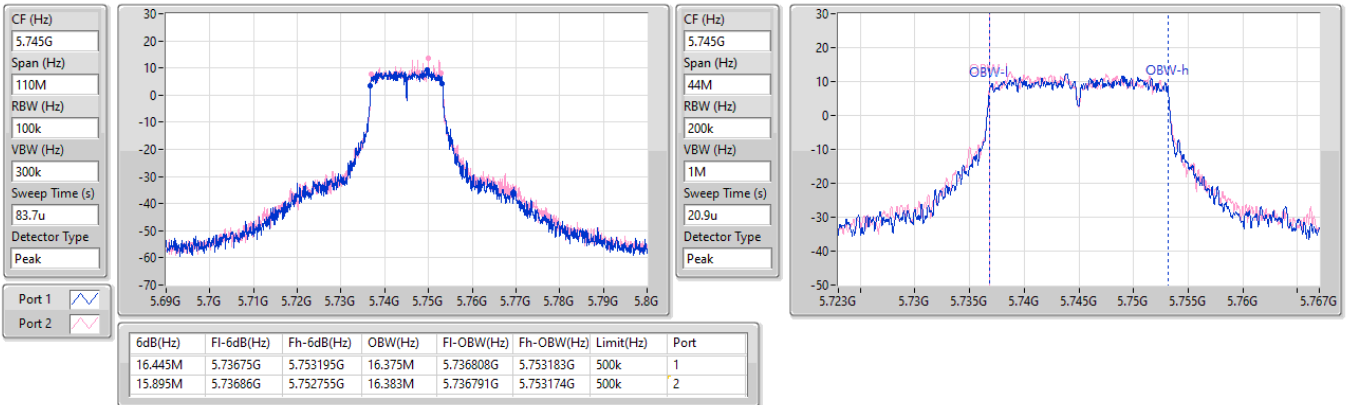


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

24/10/2024

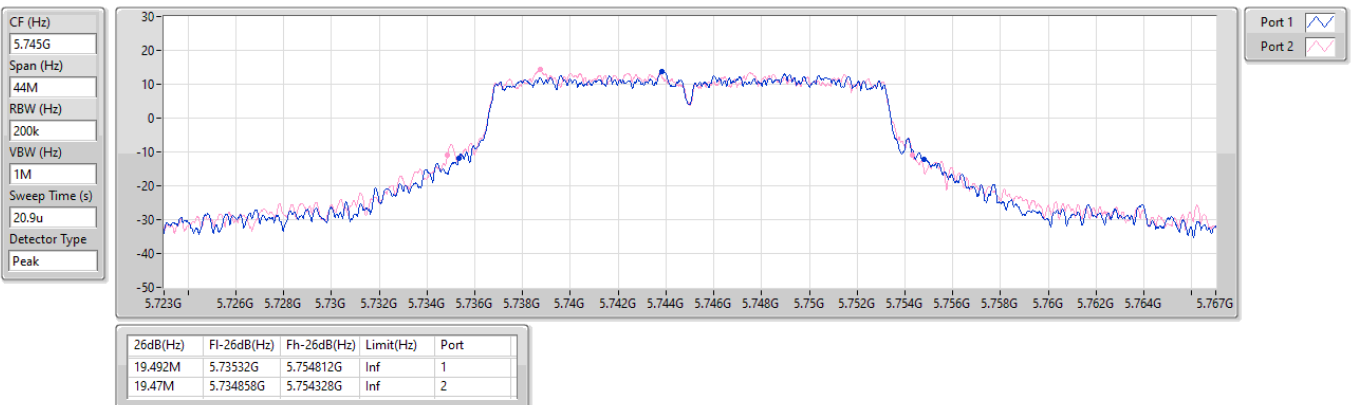


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

EBW

5745MHz

24/10/2024

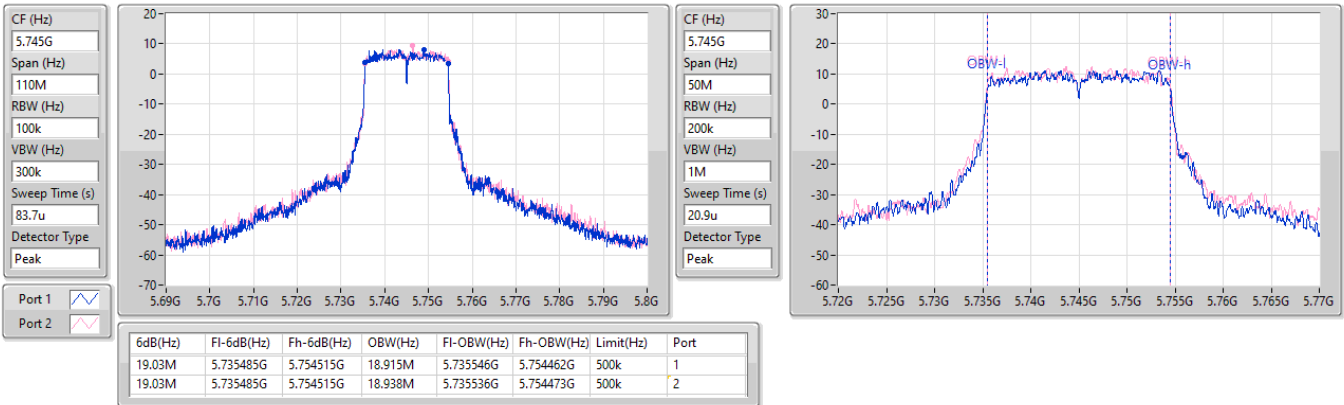


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

24/10/2024

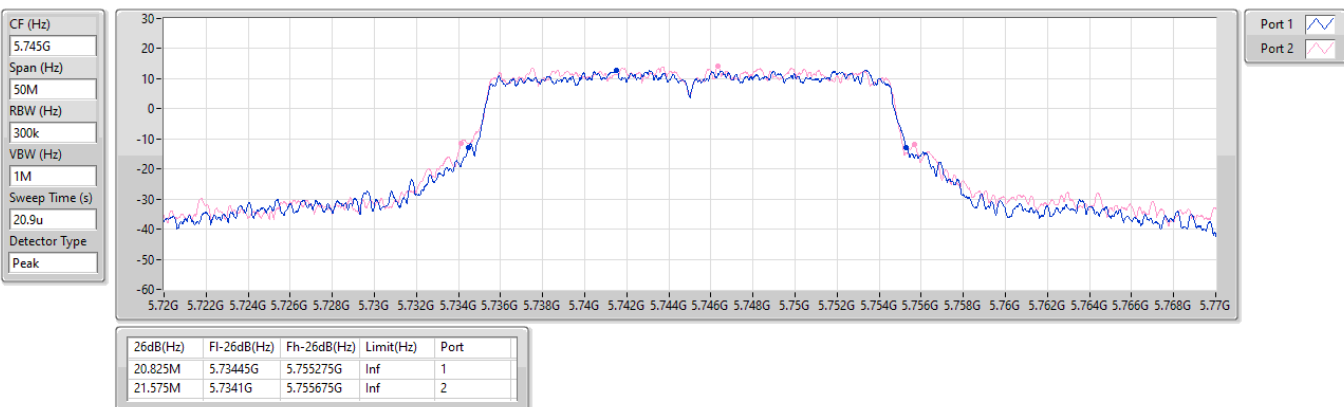


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

5745MHz

24/10/2024

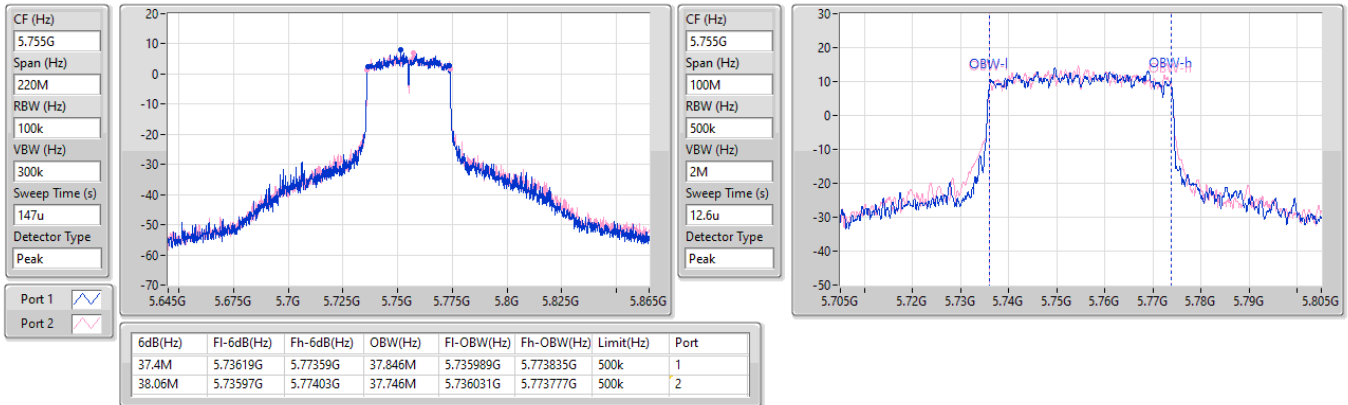


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

24/10/2024

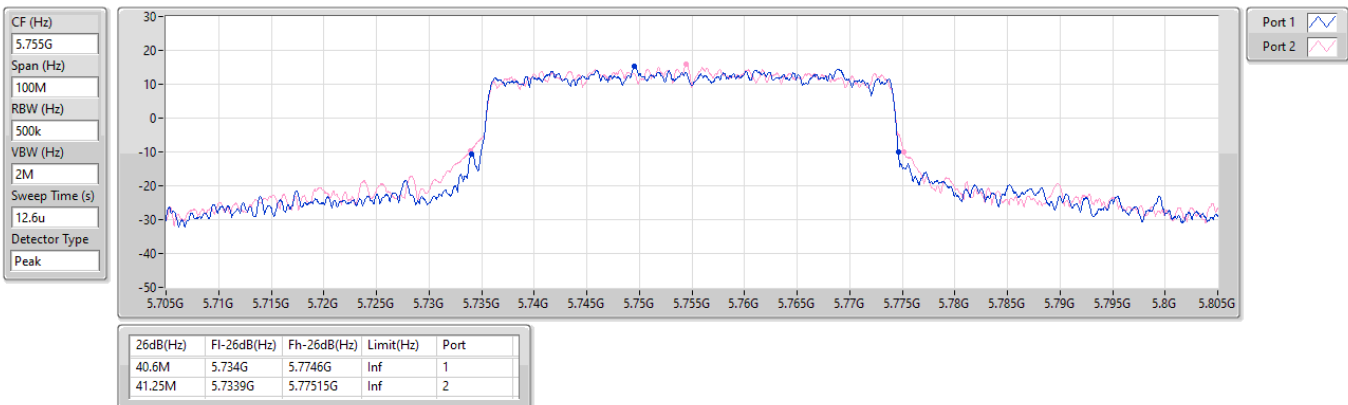


5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

5755MHz

24/10/2024

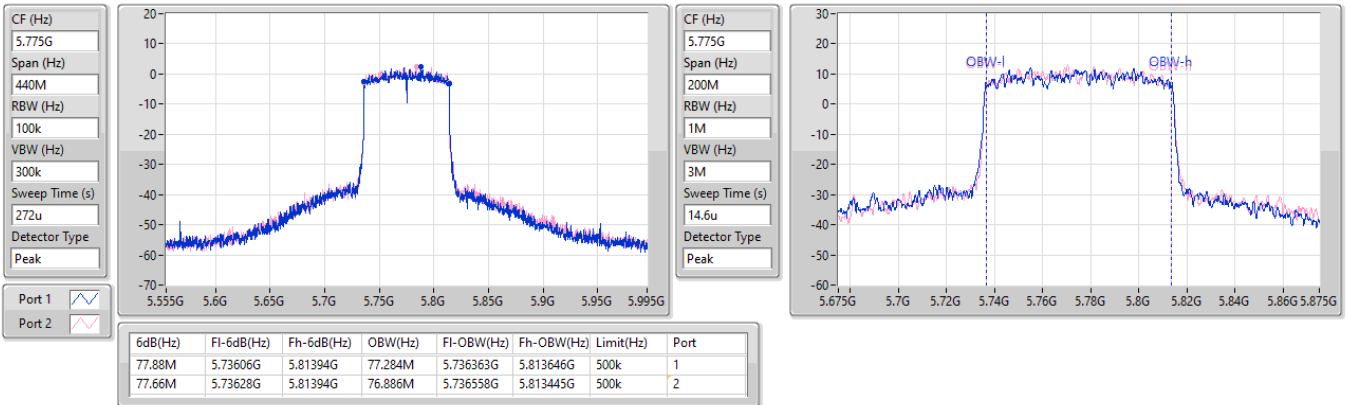


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

24/10/2024

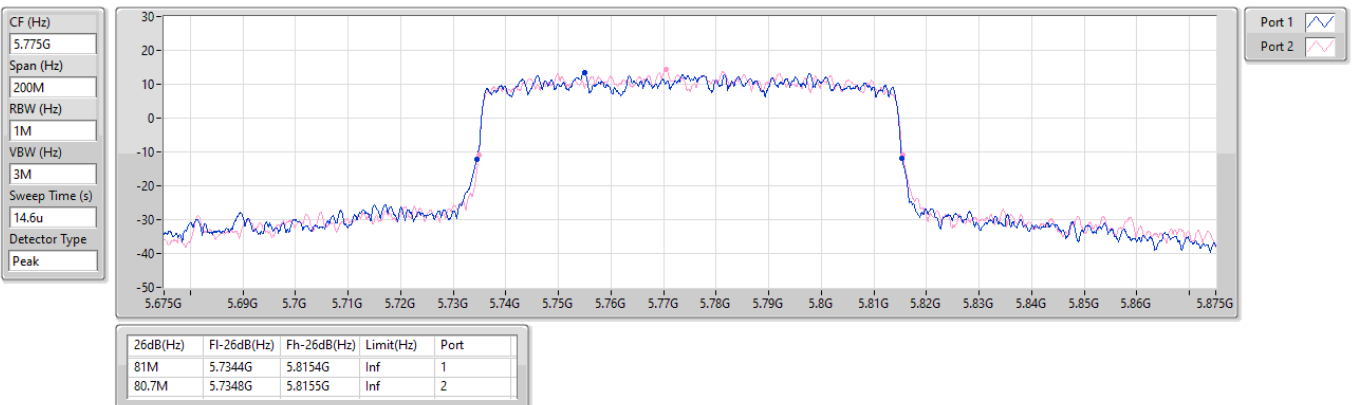


5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

EBW

5775MHz

24/10/2024





Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.14	0.51761	30.57	1.14025
802.11ax HEW20_Nss1,(MCS0)_2TX	26.77	0.47534	30.20	1.04713
802.11ax HEW40_Nss1,(MCS0)_2TX	27.15	0.51880	30.58	1.14288
802.11ax HEW80_Nss1,(MCS0)_2TX	22.84	0.19231	26.27	0.42364
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	26.84	0.48306	30.75	1.18850
802.11ax HEW20_Nss1,(MCS0)_2TX	26.37	0.43351	30.28	1.06660
802.11ax HEW40_Nss1,(MCS0)_2TX	26.85	0.48417	30.76	1.19124
802.11ax HEW80_Nss1,(MCS0)_2TX	24.84	0.30479	28.75	0.74989



Average Power_Non-Beamforming

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.43	22.21	22.40	25.32	30.00	28.75	Inf
5200MHz	Pass	3.43	24.09	24.16	27.14	30.00	30.57	Inf
5240MHz	Pass	3.43	24.01	24.13	27.08	30.00	30.51	Inf
5745MHz	Pass	3.91	23.65	23.83	26.75	30.00	30.66	Inf
5785MHz	Pass	3.91	23.70	23.96	26.84	30.00	30.75	Inf
5825MHz	Pass	3.91	23.72	23.89	26.82	30.00	30.73	Inf
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	3.43	23.29	23.55	26.43	30.00	29.86	Inf
5200MHz	Pass	3.43	23.69	23.82	26.77	30.00	30.20	Inf
5240MHz	Pass	3.43	23.46	23.77	26.63	30.00	30.06	Inf
5745MHz	Pass	3.91	23.13	23.43	26.29	30.00	30.20	Inf
5785MHz	Pass	3.91	23.19	23.48	26.35	30.00	30.26	Inf
5825MHz	Pass	3.91	23.29	23.42	26.37	30.00	30.28	Inf
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	3.43	21.40	21.54	24.48	30.00	27.91	Inf
5230MHz	Pass	3.43	24.12	24.15	27.15	30.00	30.58	Inf
5755MHz	Pass	3.91	23.66	23.84	26.76	30.00	30.67	Inf
5795MHz	Pass	3.91	23.81	23.86	26.85	30.00	30.76	Inf
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	3.43	19.81	19.84	22.84	30.00	26.27	Inf
5775MHz	Pass	3.91	21.72	21.93	24.84	30.00	28.75	Inf

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

**Summary**

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	26.66	0.46345	31.26	1.33660
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	27.03	0.50466	31.63	1.45546
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	22.71	0.18664	27.31	0.53827
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	26.26	0.42267	31.36	1.36773
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	26.74	0.47206	31.84	1.52757
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	24.69	0.29444	29.79	0.95280

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.60	23.15	23.43	26.30	30.00	30.90	Inf
5200MHz	Pass	4.60	23.59	23.70	26.66	30.00	31.26	Inf
5240MHz	Pass	4.60	23.31	23.62	26.48	30.00	31.08	Inf
5745MHz	Pass	5.10	23.03	23.33	26.19	30.00	31.29	Inf
5785MHz	Pass	5.10	23.06	23.36	26.22	30.00	31.32	Inf
5825MHz	Pass	5.10	23.19	23.31	26.26	30.00	31.36	Inf
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.60	21.30	21.44	24.38	30.00	28.98	Inf
5230MHz	Pass	4.60	24.00	24.03	27.03	30.00	31.63	Inf
5755MHz	Pass	5.10	23.53	23.73	26.64	30.00	31.74	Inf
5795MHz	Pass	5.10	23.69	23.76	26.74	30.00	31.84	Inf
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.60	19.66	19.74	22.71	30.00	27.31	Inf
5775MHz	Pass	5.10	21.57	21.78	24.69	30.00	29.79	Inf

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	14.47	19.07
802.11ax HEW20_Nss1,(MCS0)_2TX	13.48	18.08
802.11ax HEW40_Nss1,(MCS0)_2TX	11.07	15.67
802.11ax HEW80_Nss1,(MCS0)_2TX	3.85	8.45
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	12.63	17.73
802.11ax HEW20_Nss1,(MCS0)_2TX	11.56	16.66
802.11ax HEW40_Nss1,(MCS0)_2TX	9.26	14.36
802.11ax HEW80_Nss1,(MCS0)_2TX	4.41	9.51

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.60	9.70	10.06	12.80	17.00	17.40	23.00
5200MHz	Pass	4.60	11.46	11.69	14.47	17.00	19.07	23.00
5240MHz	Pass	4.60	11.32	11.64	14.42	17.00	19.02	23.00
5745MHz	Pass	5.10	9.61	9.79	12.55	30.00	17.65	36.00
5785MHz	Pass	5.10	9.66	9.77	12.63	30.00	17.73	36.00
5825MHz	Pass	5.10	9.55	9.90	12.59	30.00	17.69	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5180MHz	Pass	4.60	9.94	10.40	13.15	17.00	17.75	23.00
5200MHz	Pass	4.60	10.37	10.67	13.48	17.00	18.08	23.00
5240MHz	Pass	4.60	10.29	10.55	13.32	17.00	17.92	23.00
5745MHz	Pass	5.10	8.54	8.67	11.51	30.00	16.61	36.00
5785MHz	Pass	5.10	8.51	8.88	11.56	30.00	16.66	36.00
5825MHz	Pass	5.10	8.51	8.68	11.51	30.00	16.61	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5190MHz	Pass	4.60	5.30	5.59	8.40	17.00	13.00	23.00
5230MHz	Pass	4.60	8.03	8.21	11.07	17.00	15.67	23.00
5755MHz	Pass	5.10	6.13	6.42	9.22	30.00	14.32	36.00
5795MHz	Pass	5.10	6.30	6.41	9.26	30.00	14.36	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
5210MHz	Pass	4.60	1.05	1.01	3.85	17.00	8.45	23.00
5775MHz	Pass	5.10	1.49	1.64	4.41	30.00	9.51	36.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

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

PSD

5200MHz

24/10/2024

CF (Hz)
5.2G

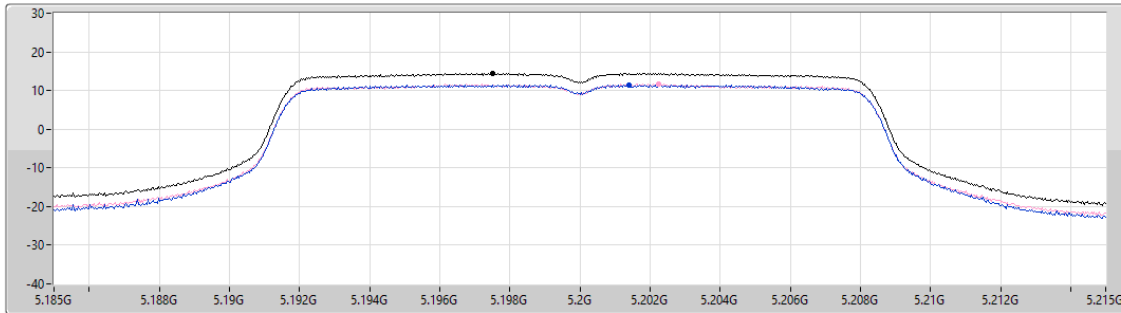
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
20.484

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.47	14.47	11.46	11.69

Sum ☒

Port 1 ☒

Port 2 ☒

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

PSD

5200MHz

24/10/2024

CF (Hz)
5.2G

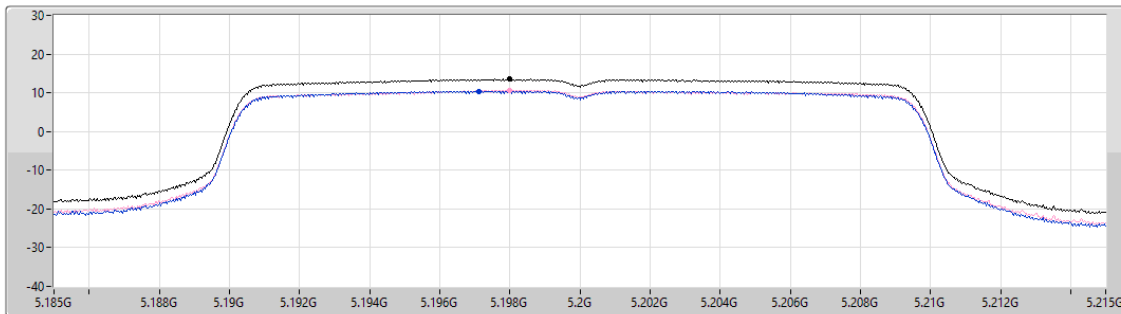
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
55.041

Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.48	13.48	10.37	10.67

Sum ☒

Port 1 ☒

Port 2 ☒

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

PSD

5230MHz

24/10/2024

CF (Hz)
5.23G

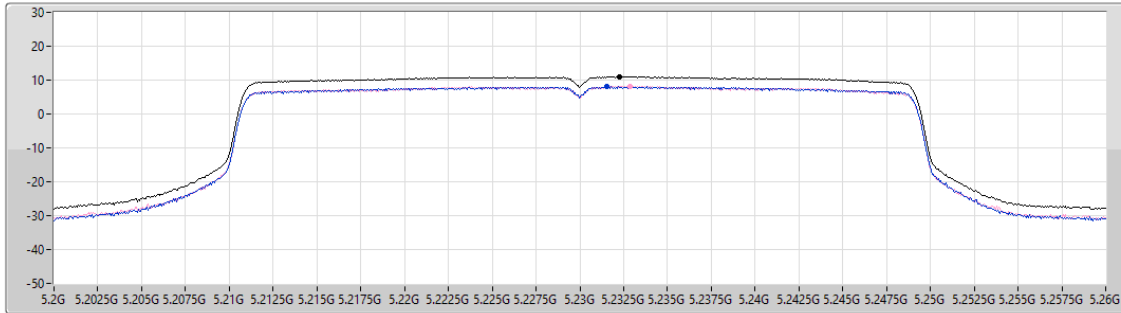
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
38.964

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
11.07	11.07	8.03	8.21

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

PSD

5210MHz

24/10/2024

CF (Hz)
5.21G

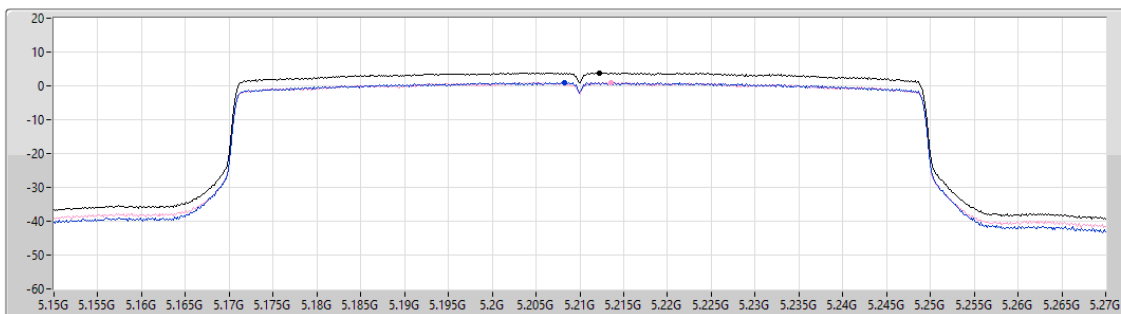
Span (Hz)
120M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
22.454

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.85	3.85	1.05	1.01

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

PSD

5785MHz

24/10/2024

CF (Hz)
5.785G

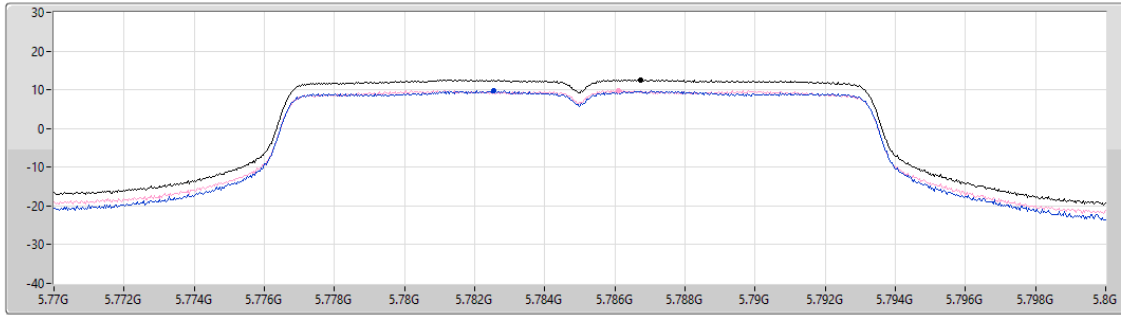
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
20.484

Detector Type
RMS



Sum (dBm/Hz)	PD (dBm/Hz)	Port 1 (dBm/Hz)	Port 2 (dBm/Hz)
12.63	12.63	9.66	9.77

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

PSD

5785MHz

24/10/2024

CF (Hz)
5.785G

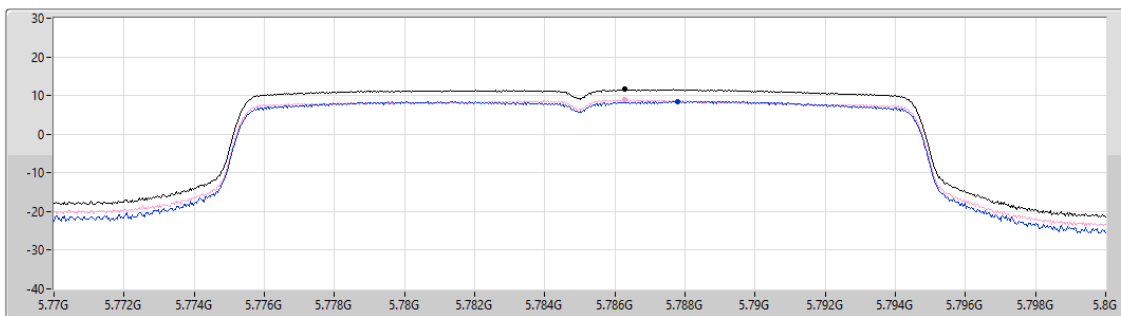
Span (Hz)
30M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
55.041

Detector Type
RMS



Sum (dBm/Hz)	PD (dBm/Hz)	Port 1 (dBm/Hz)	Port 2 (dBm/Hz)
11.56	11.56	8.51	8.88

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

PSD

5795MHz

24/10/2024

CF (Hz)
5.795G

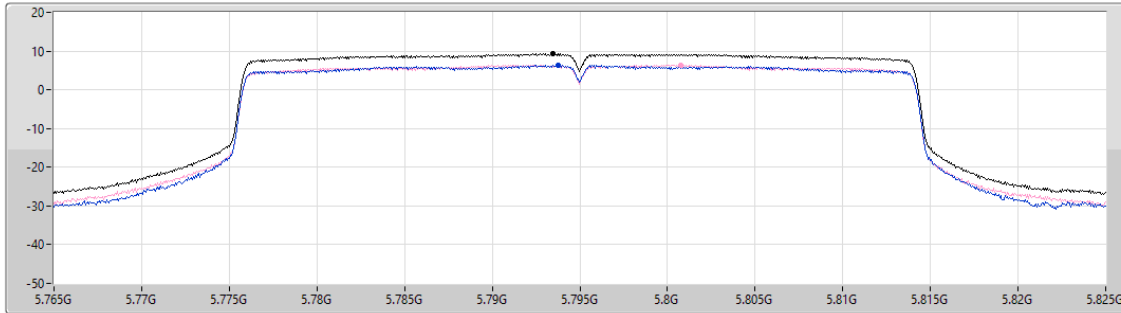
Span (Hz)
60M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
38.964

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
9.26	9.26	6.30	6.41

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

PSD

5775MHz

24/10/2024

CF (Hz)
5.775G

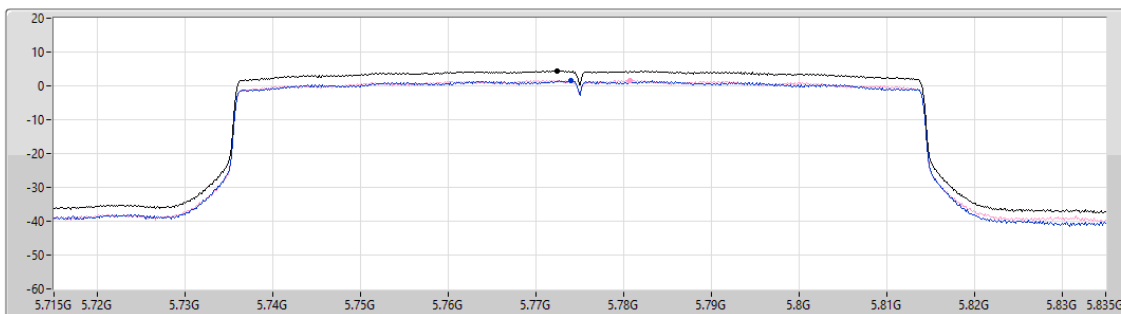
Span (Hz)
120M

RBW (Hz)
500k

VBW (Hz)
3M

Sweep Time (s)
22.454

Detector Type
RMS



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.41	4.41	1.49	1.64



Summary

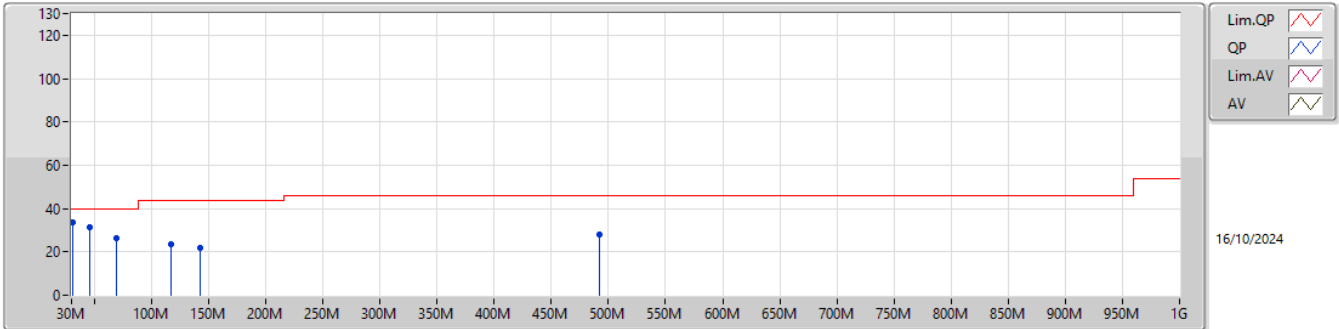
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	QP	30.85M	33.59	40.00	-6.41	3	Vertical	256	1.00

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_Adapter	Pass	PK	45.52M	31.50	40.00	-8.50	3	Vertical	0	1.00
5775MHz_Adapter	Pass	PK	68.8M	26.15	40.00	-13.85	3	Vertical	0	1.00
5775MHz_Adapter	Pass	PK	117.3M	23.76	43.50	-19.74	3	Vertical	0	1.00
5775MHz_Adapter	Pass	PK	142.52M	21.72	43.50	-21.78	3	Vertical	0	1.00
5775MHz_Adapter	Pass	PK	491.72M	27.75	46.00	-18.25	3	Vertical	0	1.00
5775MHz_Adapter	Pass	QP	30.85M	33.59	40.00	-6.41	3	Vertical	256	1.00
5775MHz_Adapter	Pass	PK	30M	21.98	40.00	-18.02	3	Horizontal	0	1.00
5775MHz_Adapter	Pass	PK	68.8M	24.17	40.00	-15.83	3	Horizontal	0	1.00
5775MHz_Adapter	Pass	PK	111.48M	26.45	43.50	-17.05	3	Horizontal	0	1.00
5775MHz_Adapter	Pass	PK	138.64M	22.31	43.50	-21.19	3	Horizontal	0	1.00
5775MHz_Adapter	Pass	PK	243.4M	20.49	46.00	-25.51	3	Horizontal	0	1.00
5775MHz_Adapter	Pass	PK	497.54M	24.64	46.00	-21.36	3	Horizontal	0	1.00

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

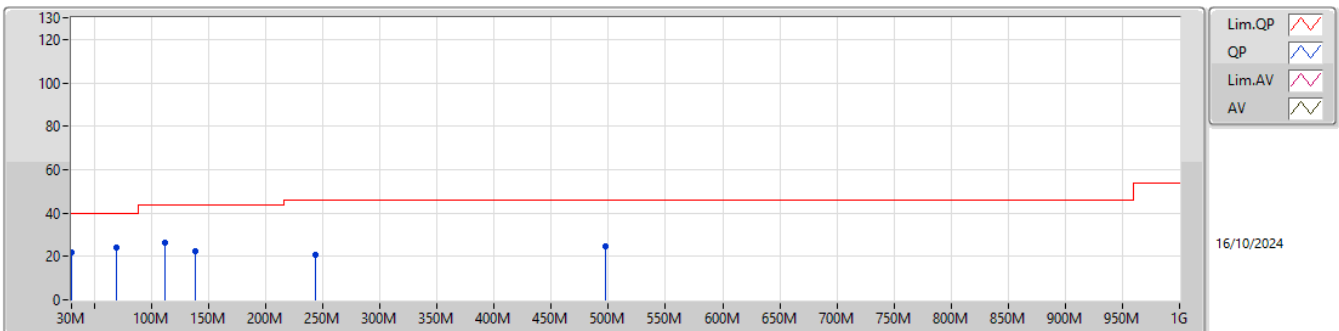
5775MHz_Adapter



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	45.52M	31.50	40.00	-8.50	-27.06	3	Vertical	0	1.00	58.56	16.89	0.64	44.59
PK	68.8M	26.15	40.00	-13.85	-31.55	3	Vertical	0	1.00	57.70	12.36	0.81	44.72
PK	117.3M	23.76	43.50	-19.74	-26.14	3	Vertical	0	1.00	49.90	17.43	1.05	44.62
PK	142.52M	21.72	43.50	-21.78	-25.92	3	Vertical	0	1.00	47.64	17.60	1.13	44.65
PK	491.72M	27.75	46.00	-18.25	-17.90	3	Vertical	0	1.00	45.65	23.99	2.08	43.97
QP	30.85M	33.59	40.00	-6.41	-19.57	3	Vertical	256	1.00	53.16	24.21	0.56	44.34

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

5775MHz_Adapter



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	30M	21.98	40.00	-18.02	-19.10	3	Horizontal	0	1.00	41.08	24.67	0.55	44.32
PK	68.8M	24.17	40.00	-15.83	-31.55	3	Horizontal	0	1.00	55.72	12.36	0.81	44.72
PK	111.48M	26.45	43.50	-17.05	-26.43	3	Horizontal	0	1.00	52.88	17.16	1.02	44.61
PK	138.64M	22.31	43.50	-21.19	-26.03	3	Horizontal	0	1.00	48.34	17.50	1.12	44.65
PK	243.4M	20.49	46.00	-25.51	-25.16	3	Horizontal	0	1.00	45.65	17.83	1.46	44.45
PK	497.54M	24.64	46.00	-21.36	-17.78	3	Horizontal	0	1.00	42.42	24.08	2.10	43.96

**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	5.15G	52.60	54.00	-1.40	3	Vertical	154	1.50
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	5.1476G	52.27	54.00	-1.73	3	Vertical	152	1.50
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.1476G	53.33	54.00	-0.67	3	Vertical	154	1.50
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	AV	5.142G	53.64	54.00	-0.36	3	Vertical	153	1.50
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	PK	6.0742G	66.32	68.20	-1.88	3	Vertical	234	1.72
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	17.23884G	64.69	68.20	-3.51	3	Horizontal	224	1.50
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	PK	5.971G	66.05	68.20	-2.15	3	Vertical	230	1.50
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	PK	5.643G	66.60	68.20	-1.60	3	Vertical	230	1.50

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	5.15G	52.60	54.00	-1.40	3	Vertical	154	1.50
5180MHz	Pass	AV	5.1754G	110.58	Inf	-Inf	3	Vertical	154	1.50
5180MHz	Pass	PK	5.1498G	65.27	74.00	-8.73	3	Vertical	154	1.50
5180MHz	Pass	PK	5.175G	120.66	Inf	-Inf	3	Vertical	154	1.50
5180MHz	Pass	AV	15.53868G	42.96	54.00	-11.04	3	Vertical	21	1.83
5180MHz	Pass	PK	10.35988G	53.60	68.20	-14.60	3	Vertical	168	2.83
5180MHz	Pass	PK	15.53406G	54.93	74.00	-19.07	3	Vertical	21	1.83
5180MHz	Pass	AV	15.5526G	43.04	54.00	-10.96	3	Horizontal	4	1.38
5180MHz	Pass	PK	10.36396G	53.53	68.20	-14.67	3	Horizontal	45	1.50
5180MHz	Pass	PK	15.54906G	55.41	74.00	-18.59	3	Horizontal	4	1.38
5200MHz	Pass	AV	5.1456G	50.68	54.00	-3.32	3	Vertical	154	1.50
5200MHz	Pass	AV	5.1956G	112.20	Inf	-Inf	3	Vertical	154	1.50
5200MHz	Pass	PK	5.1412G	63.68	74.00	-10.32	3	Vertical	154	1.50
5200MHz	Pass	PK	5.1956G	122.08	Inf	-Inf	3	Vertical	154	1.50
5200MHz	Pass	AV	15.60192G	46.78	54.00	-7.22	3	Vertical	350	2.03
5200MHz	Pass	PK	10.39988G	53.19	68.20	-15.01	3	Vertical	168	1.96
5200MHz	Pass	PK	15.59328G	62.34	74.00	-11.66	3	Vertical	350	2.03
5200MHz	Pass	AV	15.60084G	45.12	54.00	-8.88	3	Horizontal	305	2.34
5200MHz	Pass	PK	10.39874G	55.53	68.20	-12.67	3	Horizontal	63	1.71
5200MHz	Pass	PK	15.59598G	62.59	74.00	-11.41	3	Horizontal	305	2.34
5240MHz	Pass	AV	5.1488G	49.78	54.00	-4.22	3	Vertical	154	1.37
5240MHz	Pass	AV	5.2382G	112.84	Inf	-Inf	3	Vertical	154	1.37
5240MHz	Pass	AV	5.3762G	51.10	54.00	-2.90	3	Vertical	154	1.37
5240MHz	Pass	PK	5.0972G	62.93	74.00	-11.07	3	Vertical	154	1.37
5240MHz	Pass	PK	5.2382G	124.42	Inf	-Inf	3	Vertical	154	1.37
5240MHz	Pass	PK	5.3546G	62.95	74.00	-11.05	3	Vertical	154	1.37
5240MHz	Pass	AV	15.72084G	45.25	54.00	-8.75	3	Vertical	349	1.95
5240MHz	Pass	PK	10.4755G	53.06	68.20	-15.14	3	Vertical	167	2.06
5240MHz	Pass	PK	15.72084G	60.39	74.00	-13.61	3	Vertical	349	1.95
5240MHz	Pass	AV	15.71886G	43.29	54.00	-10.71	3	Horizontal	45	3.00
5240MHz	Pass	PK	10.47922G	54.55	68.20	-13.65	3	Horizontal	37	1.60
5240MHz	Pass	PK	15.72798G	56.30	74.00	-17.70	3	Horizontal	45	3.00
5745MHz	Pass	AV	5.4486G	48.62	54.00	-5.38	3	Vertical	229	1.50
5745MHz	Pass	AV	5.7462G	112.15	Inf	-Inf	3	Vertical	229	1.50
5745MHz	Pass	PK	5.6298G	62.72	68.20	-5.48	3	Vertical	229	1.50
5745MHz	Pass	PK	5.7474G	123.00	Inf	-Inf	3	Vertical	229	1.50
5745MHz	Pass	PK	5.9874G	64.37	68.20	-3.83	3	Vertical	229	1.50
5745MHz	Pass	AV	11.49186G	48.68	54.00	-5.32	3	Vertical	19	1.83
5745MHz	Pass	PK	11.4918G	60.83	74.00	-13.17	3	Vertical	19	1.83
5745MHz	Pass	PK	17.23074G	65.00	68.20	-3.20	3	Vertical	137	2.25
5745MHz	Pass	AV	11.48784G	46.84	54.00	-7.16	3	Horizontal	0	1.48
5745MHz	Pass	PK	11.49744G	58.96	74.00	-15.04	3	Horizontal	0	1.48
5745MHz	Pass	PK	17.229G	64.24	68.20	-3.96	3	Horizontal	227	1.50
5785MHz	Pass	AV	5.7886G	113.48	Inf	-Inf	3	Vertical	234	1.72
5785MHz	Pass	PK	5.6242G	63.37	68.20	-4.83	3	Vertical	234	1.72
5785MHz	Pass	PK	5.7886G	123.69	Inf	-Inf	3	Vertical	234	1.72
5785MHz	Pass	PK	6.0742G	66.32	68.20	-1.88	3	Vertical	234	1.72
5785MHz	Pass	AV	11.57144G	49.97	54.00	-4.03	3	Vertical	18	1.78
5785MHz	Pass	PK	11.57204G	62.20	74.00	-11.80	3	Vertical	18	1.78
5785MHz	Pass	PK	17.35656G	57.77	68.20	-10.43	3	Vertical	222	1.46
5785MHz	Pass	AV	11.56802G	52.12	54.00	-1.88	3	Horizontal	49	2.73
5785MHz	Pass	PK	11.56874G	64.35	74.00	-9.65	3	Horizontal	49	2.73
5785MHz	Pass	PK	17.34816G	61.31	68.20	-6.89	3	Horizontal	229	1.46
5825MHz	Pass	AV	5.8214G	112.66	Inf	-Inf	3	Vertical	228	1.72
5825MHz	Pass	PK	5.639G	63.12	68.20	-5.08	3	Vertical	228	1.72
5825MHz	Pass	PK	5.8214G	123.00	Inf	-Inf	3	Vertical	228	1.72
5825MHz	Pass	PK	6.0746G	65.32	68.20	-2.88	3	Vertical	228	1.72
5825MHz	Pass	AV	11.65102G	50.86	54.00	-3.14	3	Vertical	14	1.96
5825MHz	Pass	PK	11.65204G	63.55	74.00	-10.45	3	Vertical	14	1.96
5825MHz	Pass	PK	17.472G	55.75	68.20	-12.45	3	Vertical	221	1.50

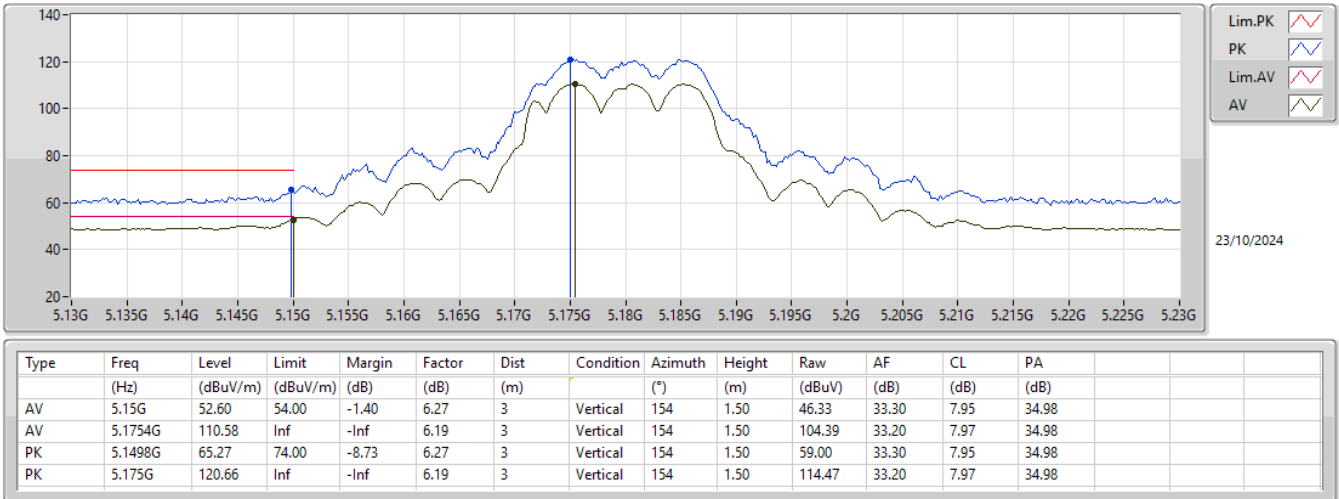
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5825MHz	Pass	AV	11.6491G	48.66	54.00	-5.34	3	Horizontal	219	2.76
5825MHz	Pass	PK	11.64394G	60.30	74.00	-13.70	3	Horizontal	219	2.76
5825MHz	Pass	PK	17.47734G	56.09	68.20	-12.11	3	Horizontal	227	1.50
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1476G	52.27	54.00	-1.73	3	Vertical	152	1.50
5180MHz	Pass	AV	5.176G	110.69	Inf	-Inf	3	Vertical	152	1.50
5180MHz	Pass	PK	5.1482G	69.35	74.00	-4.65	3	Vertical	152	1.50
5180MHz	Pass	PK	5.1758G	124.27	Inf	-Inf	3	Vertical	152	1.50
5180MHz	Pass	AV	15.5418G	43.16	54.00	-10.84	3	Vertical	39	1.83
5180MHz	Pass	PK	10.3555G	53.28	68.20	-14.92	3	Vertical	169	1.99
5180MHz	Pass	PK	15.5346G	59.98	74.00	-14.02	3	Vertical	39	1.83
5180MHz	Pass	AV	15.5382G	44.17	54.00	-9.83	3	Horizontal	306	2.45
5180MHz	Pass	PK	10.3696G	54.15	68.20	-14.05	3	Horizontal	44	1.50
5180MHz	Pass	PK	15.53784G	60.37	74.00	-13.63	3	Horizontal	306	2.45
5200MHz	Pass	AV	5.15G	49.92	54.00	-4.08	3	Vertical	152	1.49
5200MHz	Pass	AV	5.2016G	110.65	Inf	-Inf	3	Vertical	152	1.49
5200MHz	Pass	PK	5.1492G	63.72	74.00	-10.28	3	Vertical	152	1.49
5200MHz	Pass	PK	5.2016G	124.78	Inf	-Inf	3	Vertical	152	1.49
5200MHz	Pass	AV	15.60468G	44.60	54.00	-9.40	3	Vertical	351	2.17
5200MHz	Pass	PK	10.39994G	53.80	68.20	-14.40	3	Vertical	161	2.07
5200MHz	Pass	PK	15.59622G	61.14	74.00	-12.86	3	Vertical	351	2.17
5200MHz	Pass	AV	15.60252G	43.59	54.00	-10.41	3	Horizontal	307	2.68
5200MHz	Pass	PK	10.40234G	53.99	68.20	-14.21	3	Horizontal	45	1.52
5200MHz	Pass	PK	15.59616G	58.18	74.00	-15.82	3	Horizontal	307	2.68
5240MHz	Pass	AV	5.1494G	49.03	54.00	-4.97	3	Vertical	153	1.50
5240MHz	Pass	AV	5.2364G	110.82	Inf	-Inf	3	Vertical	153	1.50
5240MHz	Pass	AV	5.3762G	50.56	54.00	-3.44	3	Vertical	153	1.50
5240MHz	Pass	PK	5.1482G	62.26	74.00	-11.74	3	Vertical	153	1.50
5240MHz	Pass	PK	5.2364G	124.41	Inf	-Inf	3	Vertical	153	1.50
5240MHz	Pass	PK	5.3816G	62.38	74.00	-11.62	3	Vertical	153	1.50
5240MHz	Pass	AV	15.71598G	43.71	54.00	-10.29	3	Vertical	351	2.00
5240MHz	Pass	PK	10.48024G	53.54	68.20	-14.66	3	Vertical	163	2.01
5240MHz	Pass	PK	15.72246G	60.27	74.00	-13.73	3	Vertical	351	2.00
5240MHz	Pass	AV	15.71964G	42.09	54.00	-11.91	3	Horizontal	169	1.50
5240MHz	Pass	PK	10.48864G	54.50	68.20	-13.70	3	Horizontal	46	1.50
5240MHz	Pass	PK	15.71874G	55.65	74.00	-18.35	3	Horizontal	169	1.50
5745MHz	Pass	AV	5.4498G	47.40	54.00	-6.60	3	Vertical	230	1.50
5745MHz	Pass	AV	5.7438G	110.21	Inf	-Inf	3	Vertical	230	1.50
5745MHz	Pass	PK	5.5158G	62.53	68.20	-5.67	3	Vertical	230	1.50
5745MHz	Pass	PK	5.7426G	122.34	Inf	-Inf	3	Vertical	230	1.50
5745MHz	Pass	PK	6.0306G	63.66	68.20	-4.54	3	Vertical	230	1.50
5745MHz	Pass	AV	11.4942G	47.16	54.00	-6.84	3	Vertical	8	2.01
5745MHz	Pass	PK	11.49408G	59.68	74.00	-14.32	3	Vertical	8	2.01
5745MHz	Pass	PK	17.24376G	62.32	68.20	-5.88	3	Vertical	222	1.43
5745MHz	Pass	AV	11.49012G	46.05	54.00	-7.95	3	Horizontal	220	2.72
5745MHz	Pass	PK	11.4909G	58.67	74.00	-15.33	3	Horizontal	220	2.72
5745MHz	Pass	PK	17.23884G	64.69	68.20	-3.51	3	Horizontal	224	1.50
5785MHz	Pass	AV	5.7886G	111.02	Inf	-Inf	3	Vertical	228	1.50
5785MHz	Pass	PK	5.641G	63.01	68.20	-5.19	3	Vertical	228	1.50
5785MHz	Pass	PK	5.7874G	125.14	Inf	-Inf	3	Vertical	228	1.50
5785MHz	Pass	PK	6.0526G	64.08	68.20	-4.12	3	Vertical	228	1.50
5785MHz	Pass	AV	11.57354G	48.60	54.00	-5.40	3	Vertical	19	1.69
5785MHz	Pass	PK	11.57102G	61.35	74.00	-12.65	3	Vertical	19	1.69
5785MHz	Pass	PK	17.34474G	61.14	68.20	-7.06	3	Vertical	220	1.49
5785MHz	Pass	AV	11.56898G	47.37	54.00	-6.63	3	Horizontal	217	2.73
5785MHz	Pass	PK	11.56868G	59.94	74.00	-14.06	3	Horizontal	217	2.73
5785MHz	Pass	PK	17.35536G	62.75	68.20	-5.45	3	Horizontal	228	1.50
5825MHz	Pass	AV	5.8286G	111.24	Inf	-Inf	3	Vertical	228	1.60
5825MHz	Pass	PK	5.6342G	62.89	68.20	-5.31	3	Vertical	228	1.60
5825MHz	Pass	PK	5.8274G	124.70	Inf	-Inf	3	Vertical	228	1.60
5825MHz	Pass	PK	6.0518G	64.65	68.20	-3.55	3	Vertical	228	1.60
5825MHz	Pass	AV	11.65282G	49.05	54.00	-4.95	3	Vertical	15	1.73

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5825MHz	Pass	PK	11.65414G	63.41	74.00	-10.59	3	Vertical	15	1.73
5825MHz	Pass	PK	17.48412G	59.32	68.20	-8.88	3	Vertical	221	1.50
5825MHz	Pass	AV	11.64886G	46.67	54.00	-7.33	3	Horizontal	220	2.89
5825MHz	Pass	PK	11.63806G	58.91	74.00	-15.09	3	Horizontal	220	2.89
5825MHz	Pass	PK	17.4765G	61.58	68.20	-6.62	3	Horizontal	227	1.50
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	AV	5.148G	52.89	54.00	-1.11	3	Vertical	152	1.50
5190MHz	Pass	AV	5.186G	105.96	Inf	-Inf	3	Vertical	152	1.50
5190MHz	Pass	PK	5.1484G	66.20	74.00	-7.80	3	Vertical	152	1.50
5190MHz	Pass	PK	5.196G	118.79	Inf	-Inf	3	Vertical	152	1.50
5190MHz	Pass	AV	15.57084G	42.34	54.00	-11.66	3	Vertical	348	2.13
5190MHz	Pass	PK	10.37976G	53.50	68.20	-14.70	3	Vertical	159	1.90
5190MHz	Pass	PK	15.55044G	55.46	74.00	-18.54	3	Vertical	348	2.13
5190MHz	Pass	AV	15.57984G	42.17	54.00	-11.83	3	Horizontal	171	1.50
5190MHz	Pass	PK	10.38912G	52.79	68.20	-15.41	3	Horizontal	53	1.22
5190MHz	Pass	PK	15.56748G	55.93	74.00	-18.07	3	Horizontal	171	1.50
5230MHz	Pass	AV	5.1476G	53.33	54.00	-0.67	3	Vertical	154	1.50
5230MHz	Pass	AV	5.2364G	108.65	Inf	-Inf	3	Vertical	154	1.50
5230MHz	Pass	PK	5.148G	67.27	74.00	-6.73	3	Vertical	154	1.50
5230MHz	Pass	PK	5.2264G	122.93	Inf	-Inf	3	Vertical	154	1.50
5230MHz	Pass	AV	15.69636G	44.26	54.00	-9.74	3	Vertical	349	2.05
5230MHz	Pass	PK	10.45988G	52.62	68.20	-15.58	3	Vertical	168	2.02
5230MHz	Pass	PK	15.6876G	58.47	74.00	-15.53	3	Vertical	349	2.05
5230MHz	Pass	AV	15.69636G	42.28	54.00	-11.72	3	Horizontal	29	1.50
5230MHz	Pass	PK	10.47488G	53.86	68.20	-14.34	3	Horizontal	39	1.58
5230MHz	Pass	PK	15.70848G	55.08	74.00	-18.92	3	Horizontal	29	1.50
5755MHz	Pass	AV	5.4562G	48.24	54.00	-5.76	3	Vertical	230	1.50
5755MHz	Pass	AV	5.7538G	108.75	Inf	-Inf	3	Vertical	230	1.50
5755MHz	Pass	PK	5.6482G	64.29	68.20	-3.91	3	Vertical	230	1.50
5755MHz	Pass	PK	5.7538G	121.17	Inf	-Inf	3	Vertical	230	1.50
5755MHz	Pass	PK	5.971G	66.05	68.20	-2.15	3	Vertical	230	1.50
5755MHz	Pass	AV	11.51312G	45.71	54.00	-8.29	3	Vertical	15	1.93
5755MHz	Pass	PK	11.513G	58.46	74.00	-15.54	3	Vertical	15	1.93
5755MHz	Pass	PK	17.25888G	61.04	68.20	-7.16	3	Vertical	220	1.44
5755MHz	Pass	AV	11.50916G	44.97	54.00	-9.03	3	Horizontal	219	2.77
5755MHz	Pass	PK	11.50916G	57.24	74.00	-16.76	3	Horizontal	219	2.77
5755MHz	Pass	PK	17.2548G	63.59	68.20	-4.61	3	Horizontal	229	1.55
5795MHz	Pass	AV	5.7986G	109.42	Inf	-Inf	3	Vertical	228	1.50
5795MHz	Pass	PK	5.5046G	63.59	68.20	-4.61	3	Vertical	228	1.50
5795MHz	Pass	PK	5.7878G	122.65	Inf	-Inf	3	Vertical	228	1.50
5795MHz	Pass	PK	5.9594G	65.45	68.20	-2.75	3	Vertical	228	1.50
5795MHz	Pass	AV	11.59264G	47.03	54.00	-6.97	3	Vertical	13	1.92
5795MHz	Pass	PK	11.58652G	59.91	74.00	-14.09	3	Vertical	13	1.92
5795MHz	Pass	PK	17.37816G	58.68	68.20	-9.52	3	Vertical	219	1.50
5795MHz	Pass	AV	11.58904G	45.83	54.00	-8.17	3	Horizontal	219	2.82
5795MHz	Pass	PK	11.5882G	58.08	74.00	-15.92	3	Horizontal	219	2.82
5795MHz	Pass	PK	17.38308G	61.08	68.20	-7.12	3	Horizontal	220	1.50
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	AV	5.142G	53.64	54.00	-0.36	3	Vertical	153	1.50
5210MHz	Pass	AV	5.211G	101.60	Inf	-Inf	3	Vertical	153	1.50
5210MHz	Pass	AV	5.376G	50.89	54.00	-3.11	3	Vertical	153	1.50
5210MHz	Pass	PK	5.131G	67.11	74.00	-6.89	3	Vertical	153	1.50
5210MHz	Pass	PK	5.202G	114.22	Inf	-Inf	3	Vertical	153	1.50
5210MHz	Pass	PK	5.388G	62.53	74.00	-11.47	3	Vertical	153	1.50
5210MHz	Pass	AV	15.57624G	42.36	54.00	-11.64	3	Vertical	326	1.50
5210MHz	Pass	PK	10.40872G	53.03	68.20	-15.17	3	Vertical	163	1.90
5210MHz	Pass	PK	15.5892G	55.54	74.00	-18.46	3	Vertical	326	1.50
5210MHz	Pass	AV	15.57048G	42.34	54.00	-11.66	3	Horizontal	190	1.50
5210MHz	Pass	PK	10.4392G	52.76	68.20	-15.44	3	Horizontal	99	1.50
5210MHz	Pass	PK	15.58536G	55.99	74.00	-18.01	3	Horizontal	190	1.50
5775MHz	Pass	AV	5.763G	103.74	Inf	-Inf	3	Vertical	230	1.50
5775MHz	Pass	PK	5.643G	66.60	68.20	-1.60	3	Vertical	230	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5775MHz	Pass	PK	5.7534G	116.63	Inf	-Inf	3	Vertical	230	1.50
5775MHz	Pass	PK	6.0462G	64.36	68.20	-3.84	3	Vertical	230	1.50
5775MHz	Pass	AV	11.56296G	43.46	54.00	-10.54	3	Vertical	0	1.89
5775MHz	Pass	PK	11.57376G	55.64	74.00	-18.36	3	Vertical	0	1.89
5775MHz	Pass	PK	17.29092G	54.79	68.20	-13.41	3	Vertical	220	1.50
5775MHz	Pass	AV	11.55648G	44.53	54.00	-9.47	3	Horizontal	43	2.65
5775MHz	Pass	PK	11.53728G	57.12	74.00	-16.88	3	Horizontal	43	2.65
5775MHz	Pass	PK	17.29332G	55.38	68.20	-12.82	3	Horizontal	220	1.54

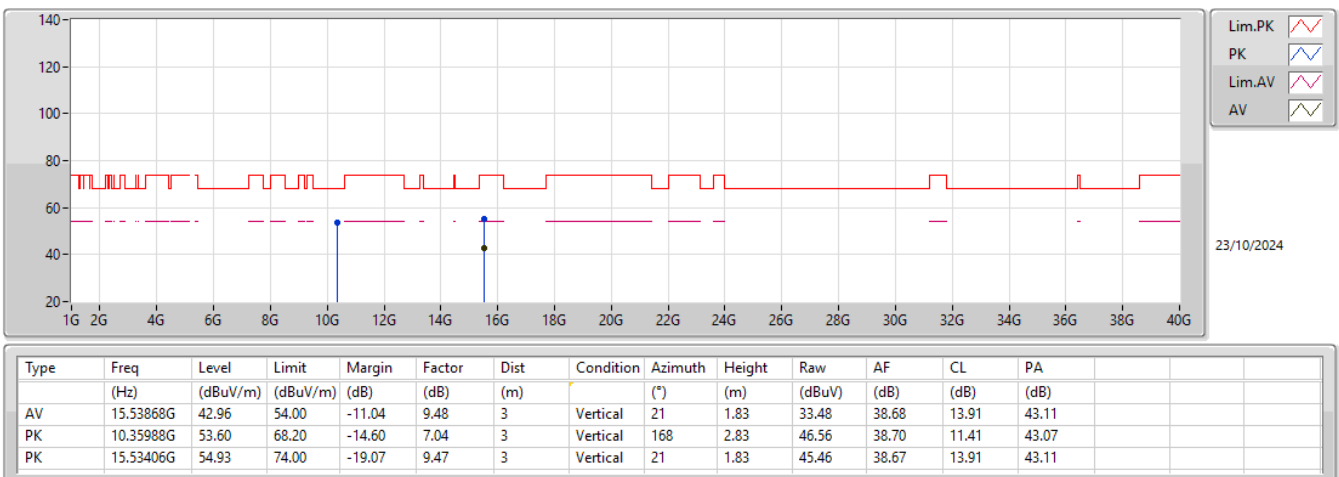
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



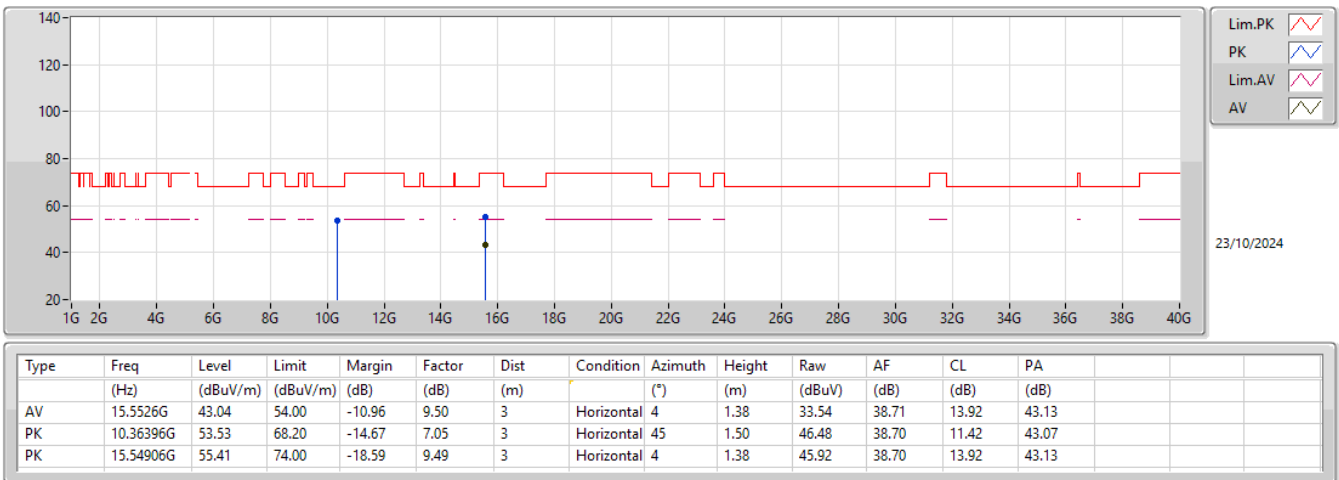
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



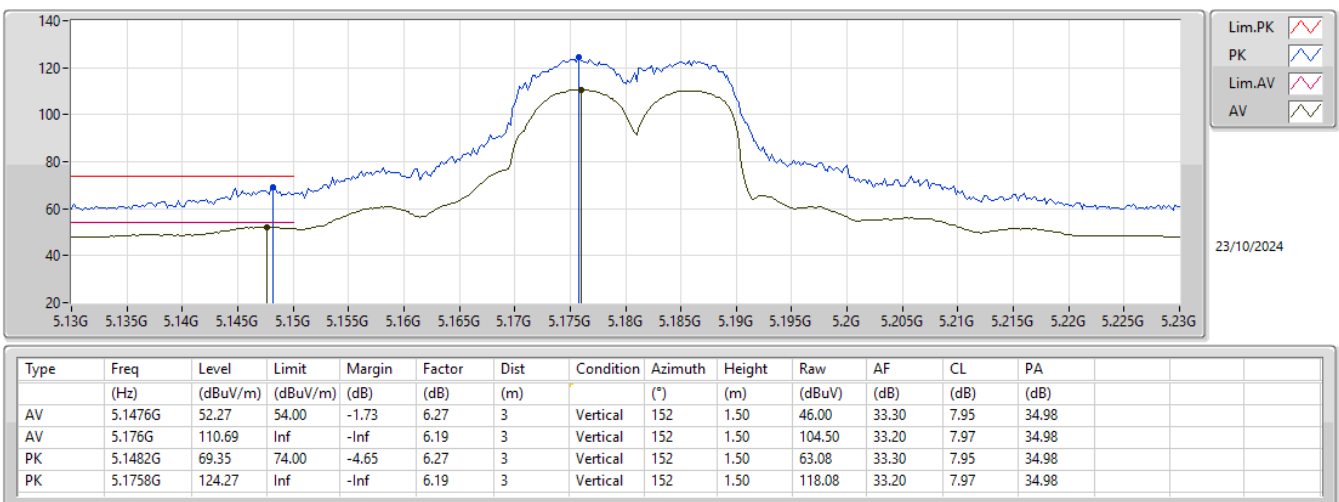
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

5180MHz_TX



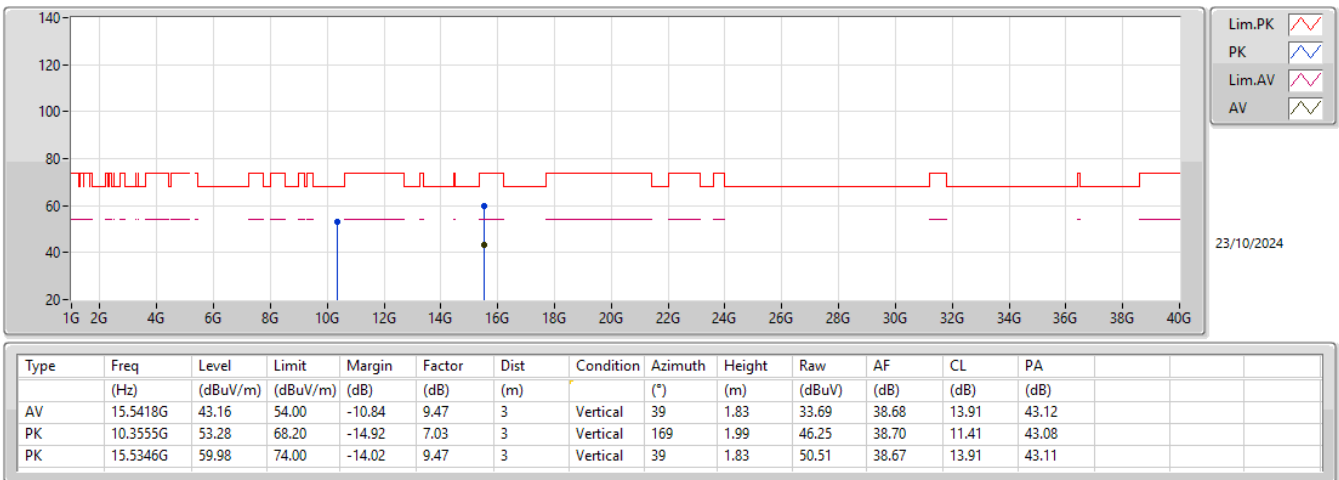
5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5180MHz_TX



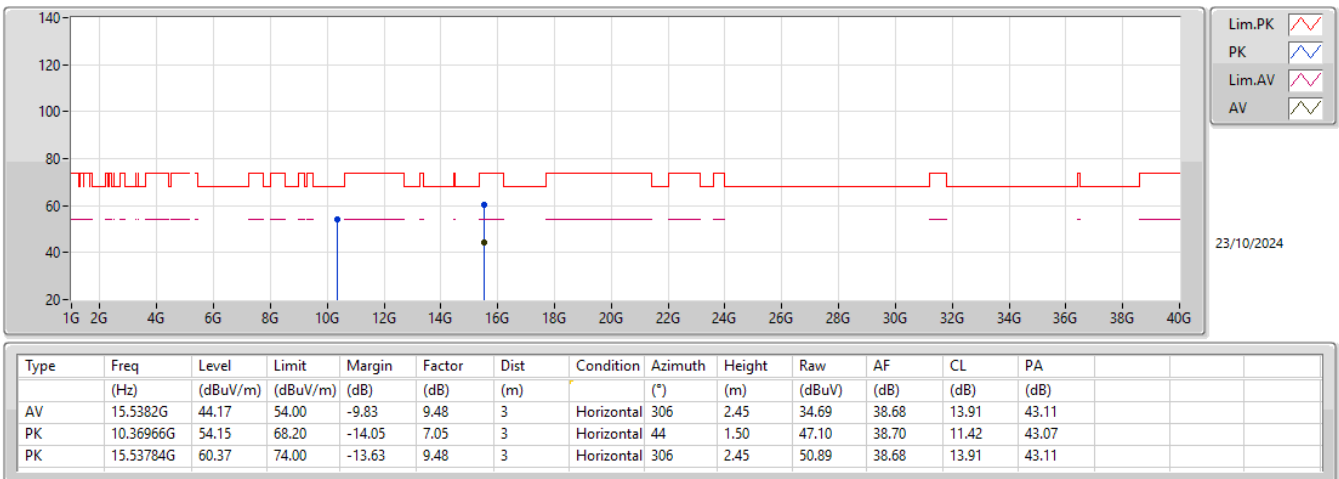
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5180MHz_TX



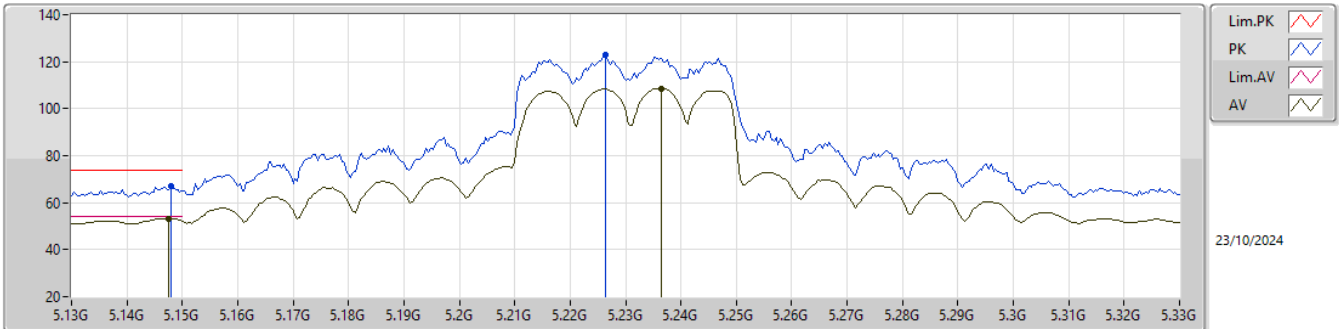
5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5180MHz_TX



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

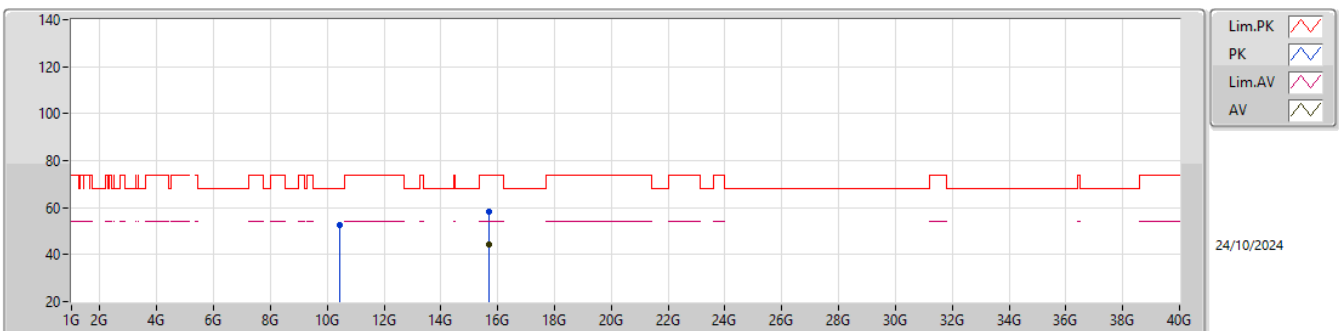
5230MHz_TX



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	5.1476G	53.33	54.00	-0.67	6.27	3	Vertical	154	1.50	47.06	33.30	7.95	34.98
AV	5.2364G	108.65	Inf	-Inf	6.13	3	Vertical	154	1.50	102.52	33.10	8.02	34.99
PK	5.148G	67.27	74.00	-6.73	6.27	3	Vertical	154	1.50	61.00	33.30	7.95	34.98
PK	5.2264G	122.93	Inf	-Inf	6.12	3	Vertical	154	1.50	116.81	33.10	8.01	34.99

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

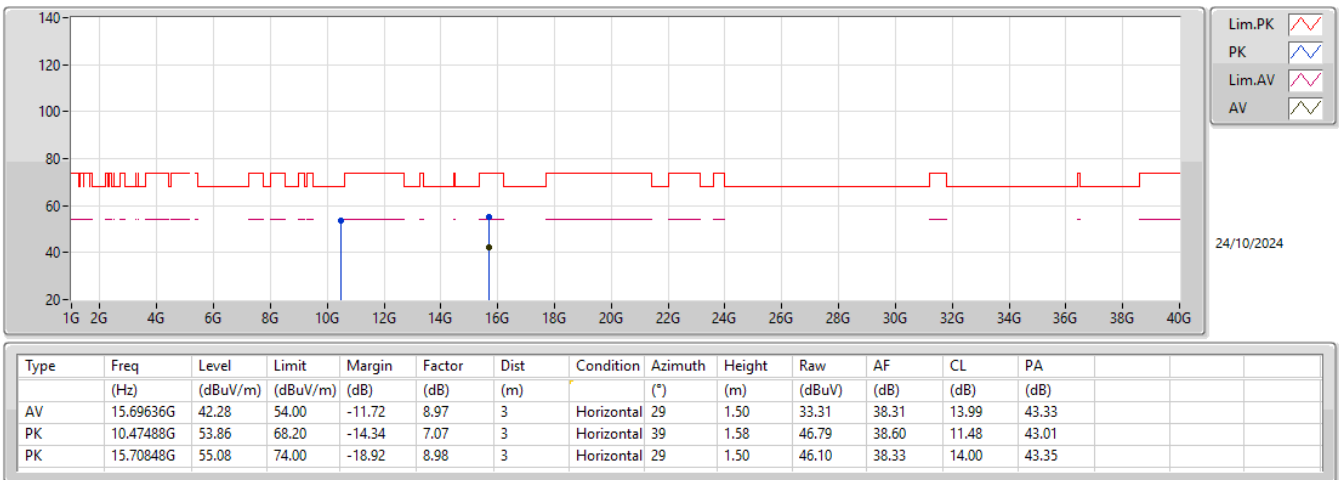
5230MHz_TX



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	15.69636G	44.26	54.00	-9.74	8.97	3	Vertical	349	2.05	35.29	38.31	13.99	43.33
PK	10.45988G	52.62	68.20	-15.58	7.06	3	Vertical	168	2.02	45.56	38.60	11.47	43.01
PK	15.6876G	58.47	74.00	-15.53	8.99	3	Vertical	349	2.05	49.48	38.32	13.99	43.32

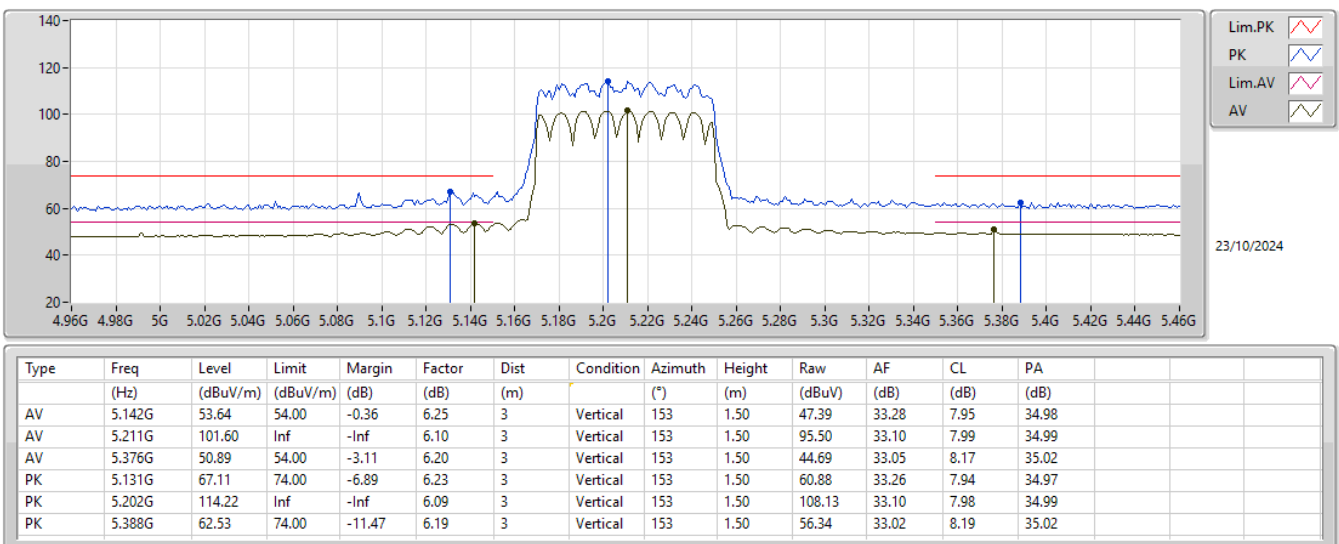
5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5230MHz_TX



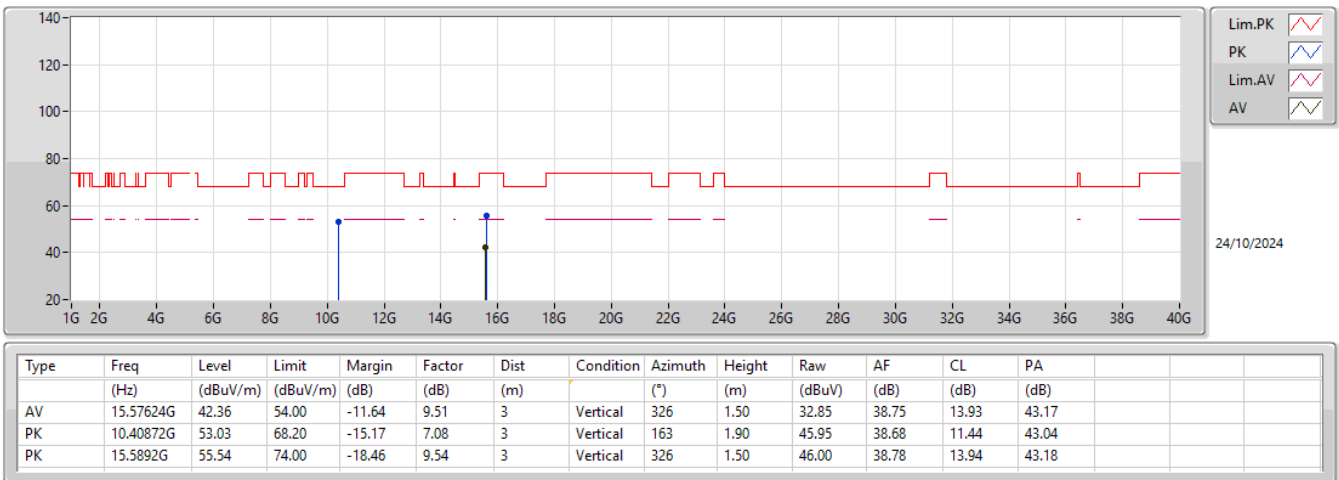
5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TX



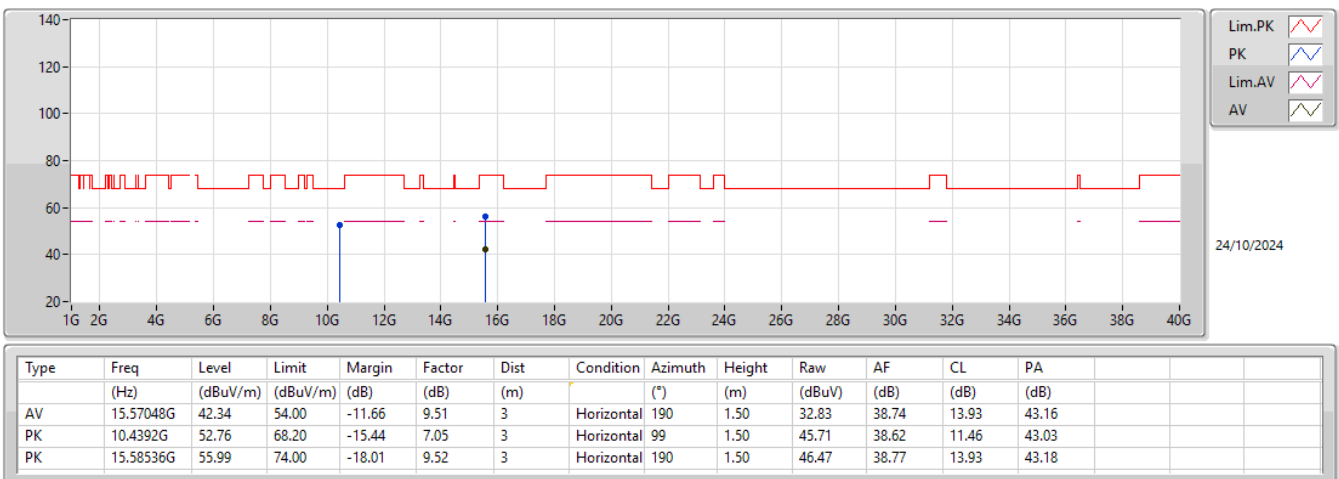
5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TX



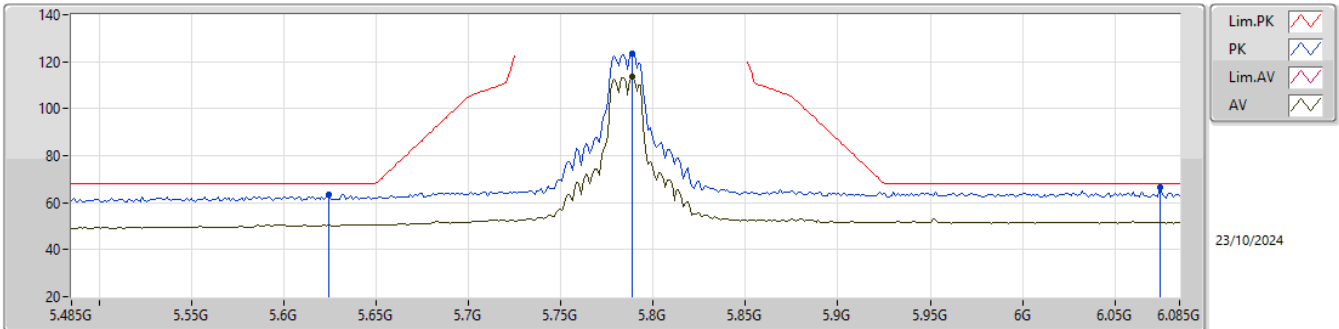
5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5210MHz_TX



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

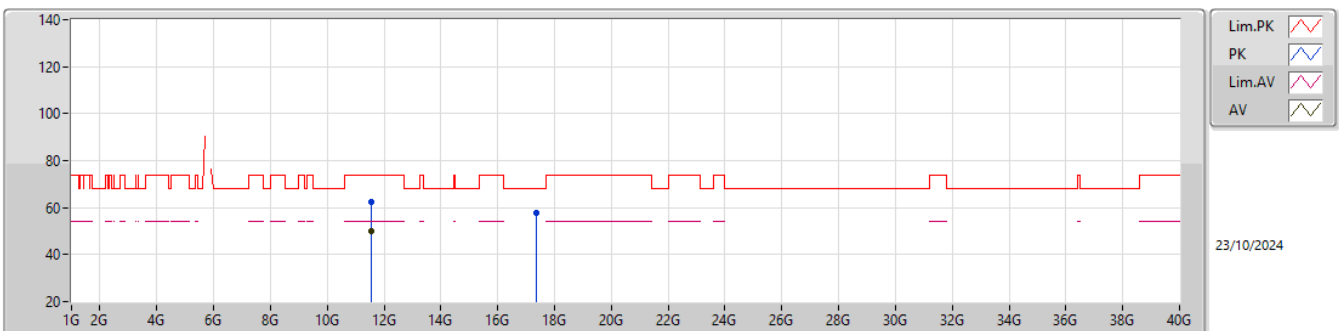
5785MHz_TX



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	5.7886G	113.48	Inf	-Inf	7.69	3	Vertical	234	1.72	105.79	34.13	8.60	35.04
PK	5.6242G	63.37	68.20	-4.83	6.63	3	Vertical	234	1.72	56.74	33.30	8.37	35.04
PK	5.7886G	123.69	Inf	-Inf	7.69	3	Vertical	234	1.72	116.00	34.13	8.60	35.04
PK	6.0742G	66.32	68.20	-1.88	7.92	3	Vertical	234	1.72	58.40	34.30	8.69	35.07

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

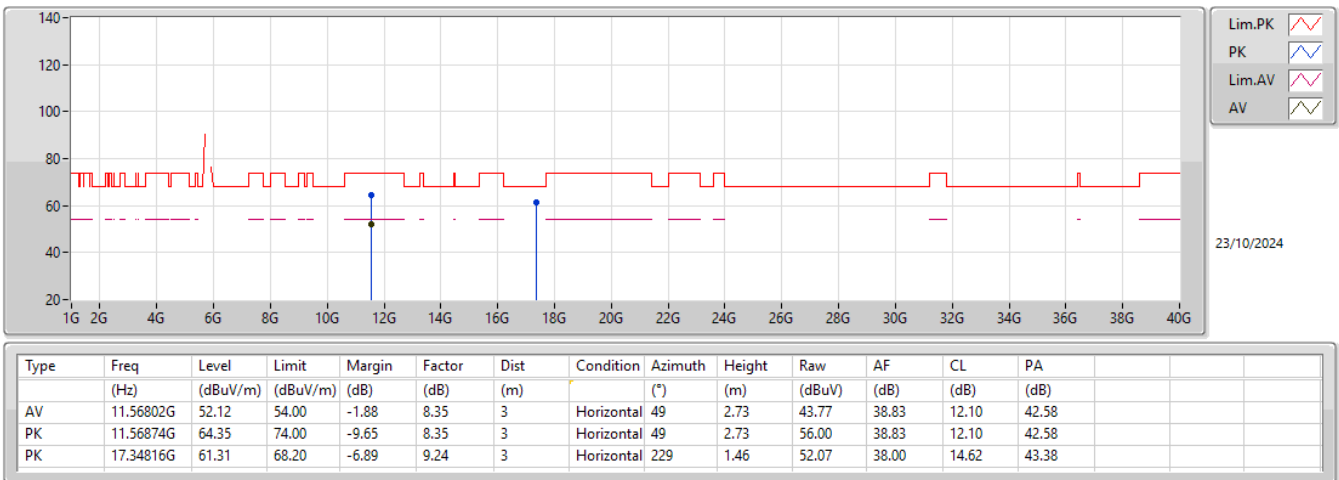
5785MHz_TX



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	11.57144G	49.97	54.00	-4.03	8.33	3	Vertical	18	1.78	41.64	38.81	12.10	42.58
PK	11.57204G	62.20	74.00	-11.80	8.33	3	Vertical	18	1.78	53.87	38.81	12.10	42.58
PK	17.35656G	57.77	68.20	-10.43	9.26	3	Vertical	222	1.46	48.51	38.01	14.62	43.37

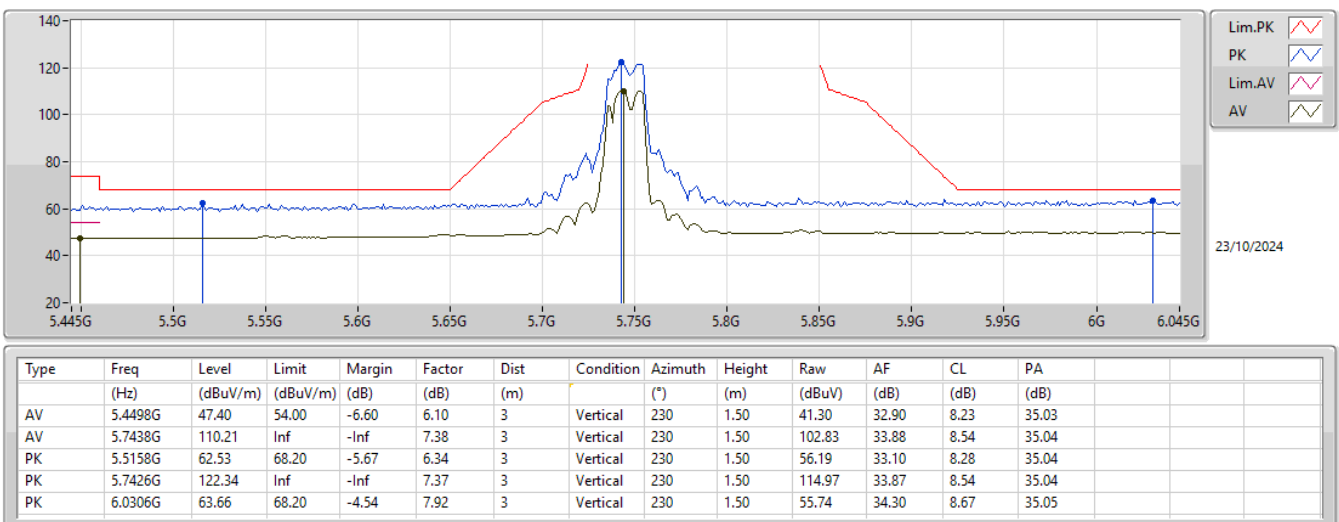
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_2TX

5785MHz_TX



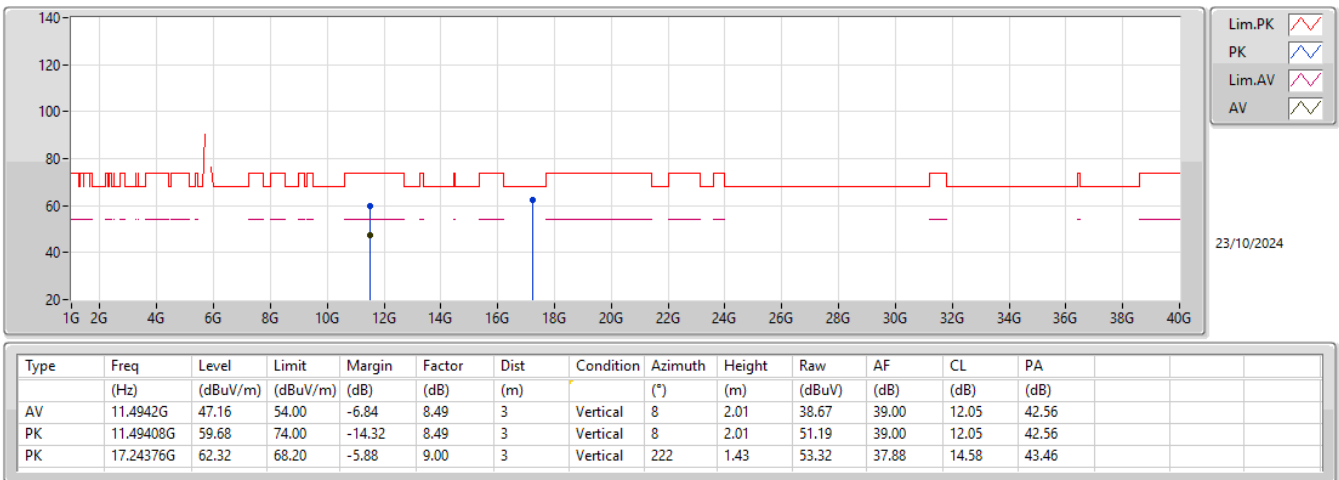
5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

5745MHz_TX



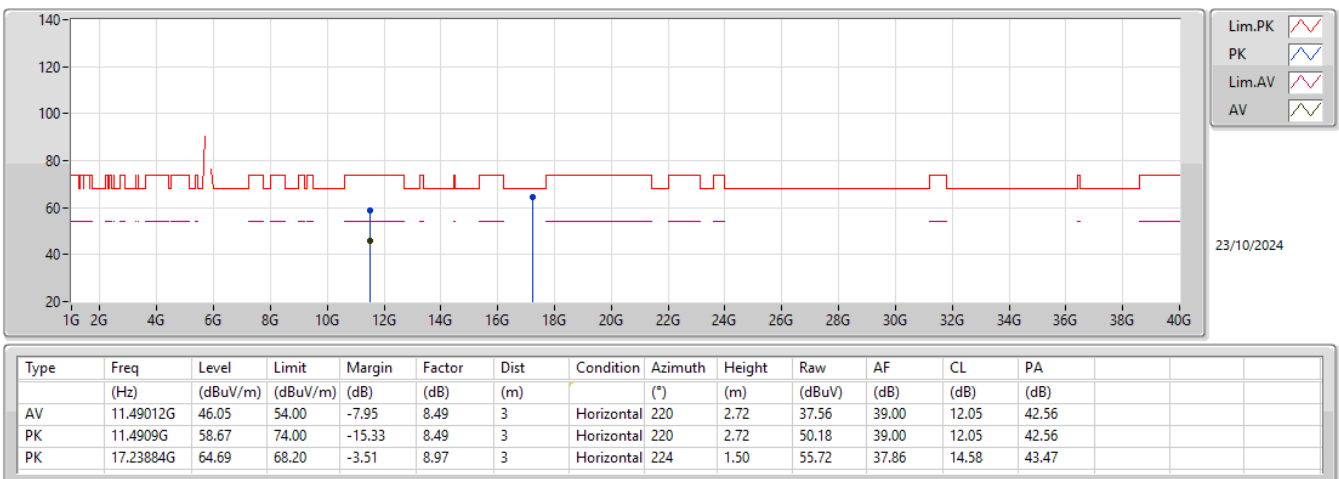
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TX



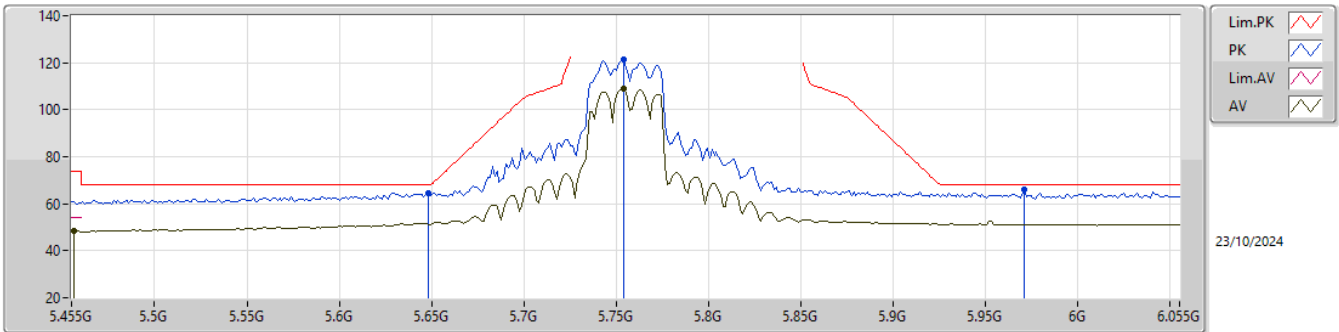
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

5745MHz_TX



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

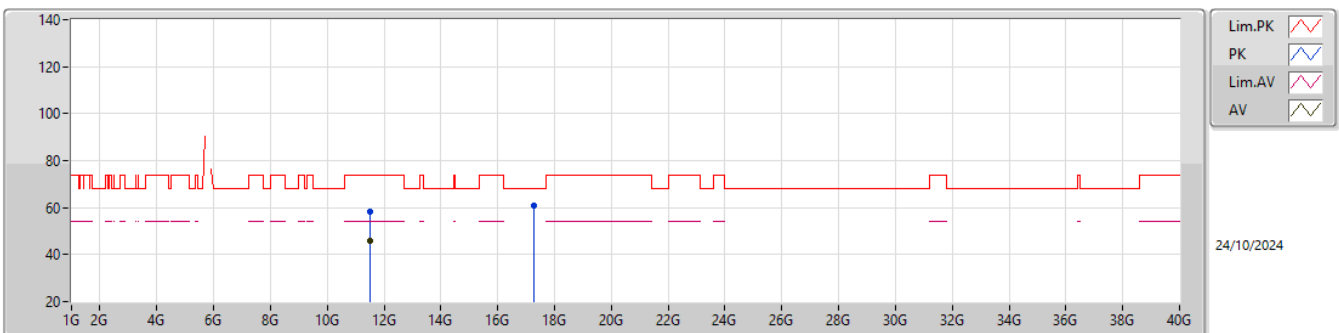
5755MHz_TX



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	5.4562G	48.24	54.00	-5.76	6.13	3	Vertical	230	1.50	42.11	32.92	8.24	35.03
AV	5.7538G	108.75	Inf	-Inf	7.43	3	Vertical	230	1.50	101.32	33.92	8.55	35.04
PK	5.6482G	64.29	68.20	-3.91	6.75	3	Vertical	230	1.50	57.54	33.39	8.40	35.04
PK	5.7538G	121.17	Inf	-Inf	7.43	3	Vertical	230	1.50	113.74	33.92	8.55	35.04
PK	5.971G	66.05	68.20	-2.15	7.91	3	Vertical	230	1.50	58.14	34.30	8.65	35.04

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

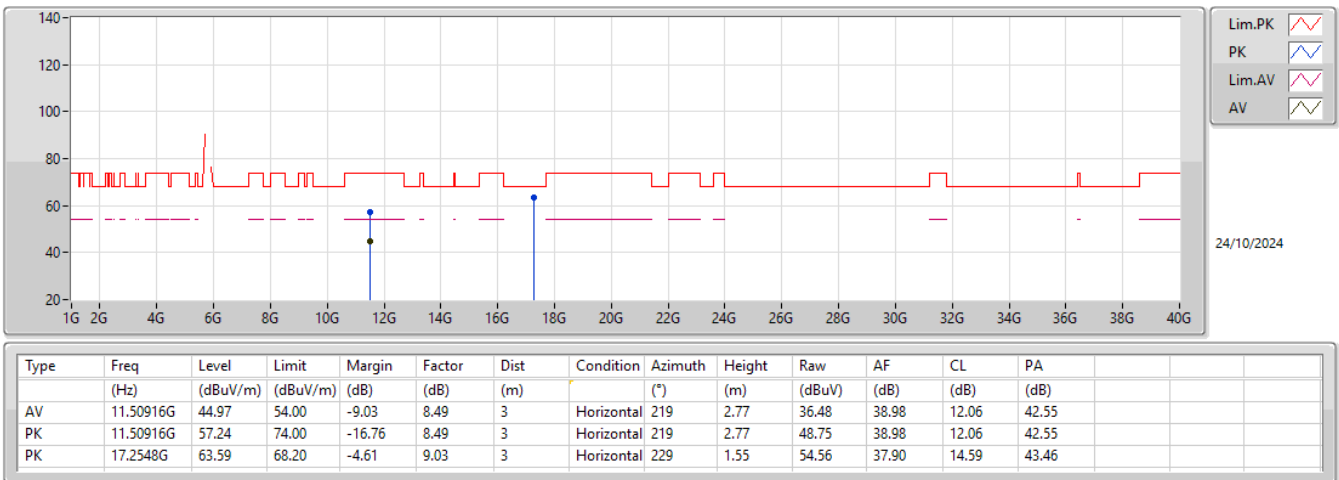
5755MHz_TX



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	11.51312G	45.71	54.00	-8.29	8.47	3	Vertical	15	1.93	37.24	38.97	12.06	42.56
PK	11.513G	58.46	74.00	-15.54	8.47	3	Vertical	15	1.93	49.99	38.97	12.06	42.56
PK	17.25888G	61.04	68.20	-7.16	9.04	3	Vertical	220	1.44	52.00	37.90	14.59	43.45

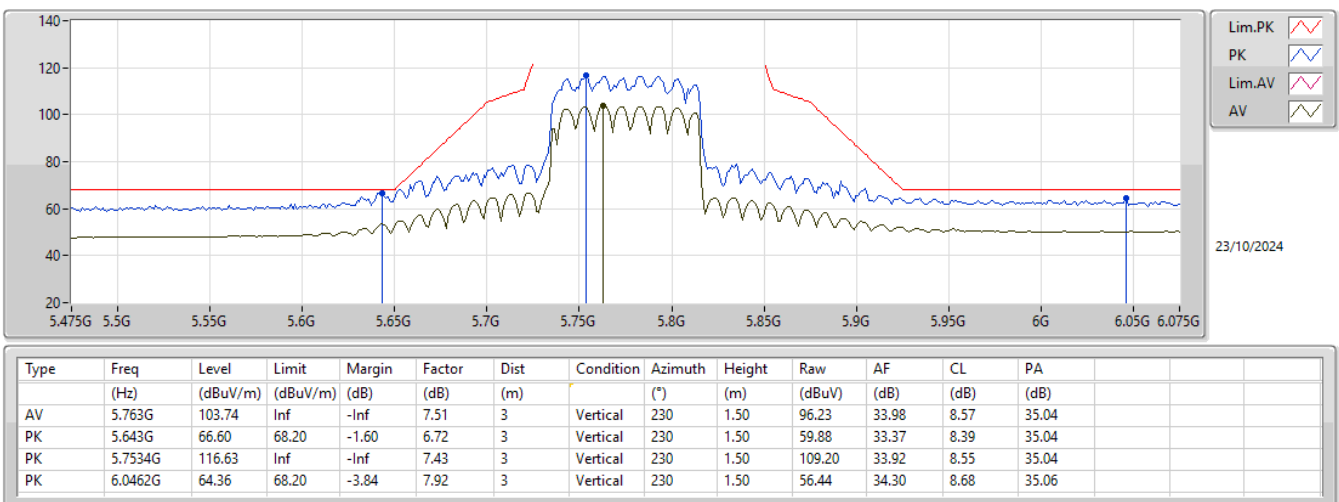
5.725-5.85GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

5755MHz_TX



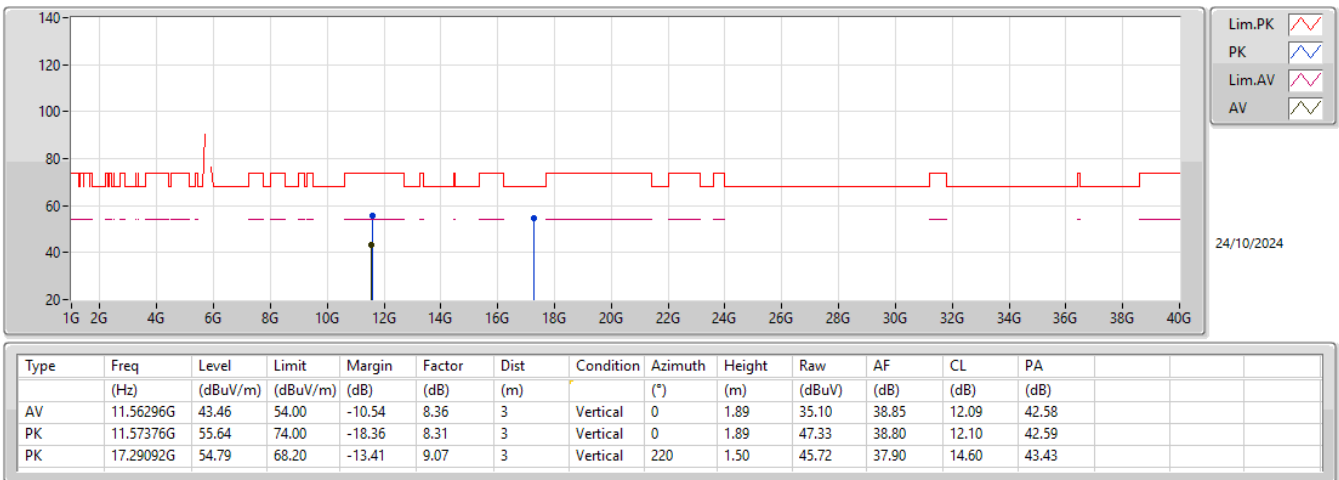
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TX



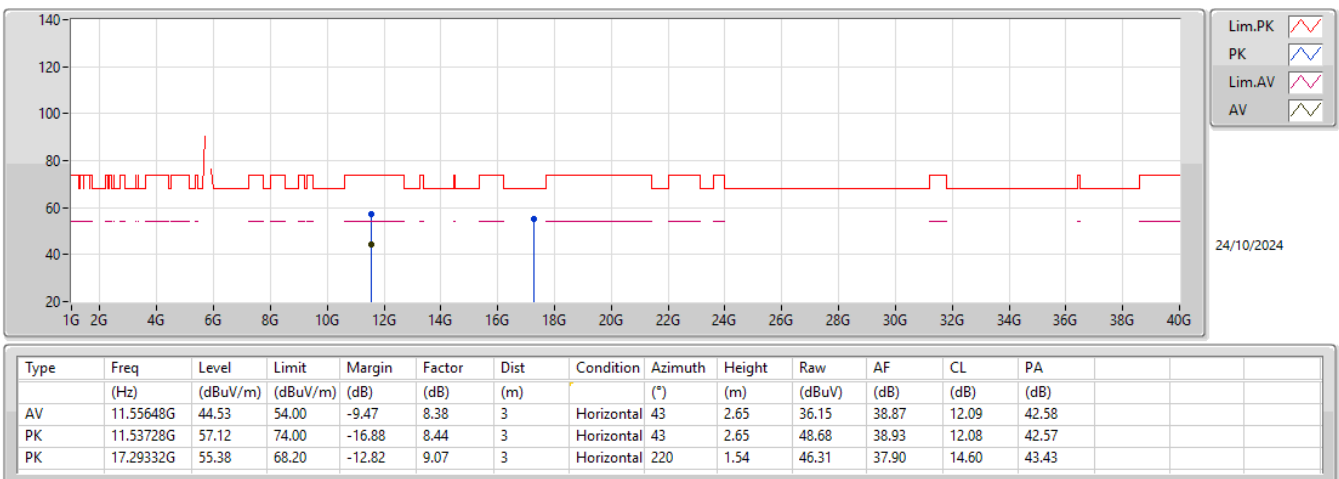
5.725-5.85GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

5775MHz_TX



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

5775MHz_TX





Summary

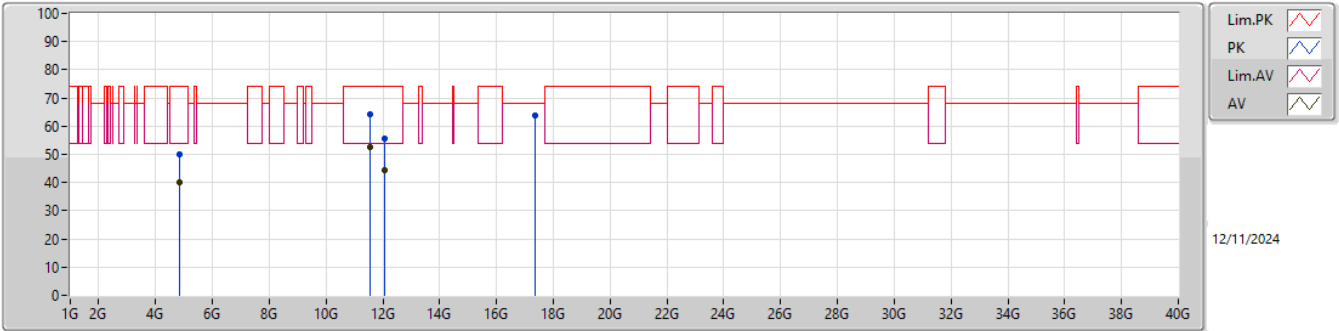
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	12.06168G	53.79	54.00	-0.21	Horizontal



Result

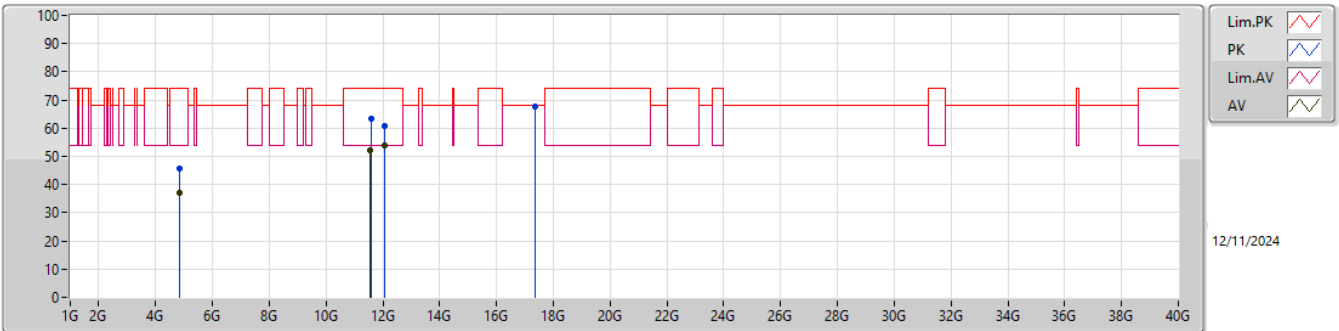
Mode Mode 1	Configure 2.4G+5G
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Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.824G	39.98	54.00	-14.02	-5.35	3	Vertical	65	1.91	-	45.33	32.70	7.73	45.78
AV	11.5715G	52.74	54.00	-1.26	8.33	3	Vertical	298	1.73	-	44.41	38.81	12.10	42.58
AV	12.06156G	44.60	54.00	-9.40	8.79	3	Vertical	322	1.73	-	35.81	39.20	12.36	42.77
PK	4.82382G	50.05	74.00	-23.95	-5.35	3	Vertical	65	1.91	-	55.40	32.70	7.73	45.78
PK	11.57042G	64.09	74.00	-9.91	8.34	3	Vertical	298	1.73	-	55.75	38.82	12.10	42.58
PK	12.06096G	55.41	74.00	-18.59	8.79	3	Vertical	322	1.73	-	46.62	39.20	12.36	42.77
PK	17.35968G	63.97	68.20	-4.23	9.27	3	Vertical	134	1.54	-	54.70	38.02	14.62	43.37

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)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
AV	4.824G	37.25	54.00	-16.75	-5.35	3	Horizontal	258	1.94	-	42.60	32.70	7.73	45.78
AV	11.56778G	51.94	54.00	-2.06	8.35	3	Horizontal	336	2.40	-	43.59	38.83	12.10	42.58
AV	12.06168G	53.79	54.00	-0.21	8.79	3	Horizontal	315	1.63	-	45.00	39.20	12.36	42.77
PK	4.82418G	45.88	74.00	-28.12	-5.35	3	Horizontal	258	1.94	-	51.23	32.70	7.73	45.78
PK	11.57414G	63.50	74.00	-10.50	8.31	3	Horizontal	336	2.40	-	55.19	38.80	12.10	42.59
PK	12.05826G	60.64	74.00	-13.36	8.79	3	Horizontal	315	1.63	-	51.85	39.20	12.36	42.77
PK	17.35302G	67.81	68.20	-0.39	9.25	3	Horizontal	158	1.61	-	58.56	38.01	14.62	43.38