



RADIO TEST REPORT

FCC ID : Z8H89FT0088
Equipment : ePMP 5 GHz Force 4518 SM
Brand Name : Cambium Networks
Model Name : ePMP 5 GHz Force 4518 SM
Model Number : C058940P132A
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA
Manufacturer : Cambium Networks, Ltd.
Ashburton, TQ13 7UP, UK
Standard : 47 CFR FCC Part 15.407

The product was received on Jul. 22, 2025, and testing was started from Aug. 04, 2025 and completed on Aug. 06, 2025. We, Sporton International Inc. Hsinchu 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 variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
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Report Template No.: CB-A12_1 Ver1.4



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	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Output Power	PASS	-
3.3	15.407(a)	Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



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]
5150-5250	n (HT40), ac (VHT40), ax (HEW40)	5190-5230	38-46 [2]
5150-5250	ac (VHT80), ax (HEW80)	5210	42 [1]

Band	Mode	BWch (MHz)	Nant
5.150-5.25GHz	802.11a	20	2TX
5.150-5.25GHz	802.11n HT20	20	2TX
5.150-5.25GHz	802.11ac VHT20	20	2TX
5.150-5.25GHz	802.11ax HEW20	20	2TX
5.150-5.25GHz	802.11n HT40	40	2TX
5.150-5.25GHz	802.11ac VHT40	40	2TX
5.150-5.25GHz	802.11ax HEW40	40	2TX
5.150-5.25GHz	802.11ac VHT80	80	2TX
5.150-5.25GHz	802.11ax HEW80	80	2TX

Note:

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



1.1.2 Antenna Information

Ant.	Port	Antenna Polarization	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	2	Vertical	Cambium	Force 4518	Patch	I-Pex	Note1
2	1	Horizontal	Cambium	Force 4518	Patch	I-Pex	

Note1

Ant.	Port	Gain (dBi)	
		UNII1	UNII3
1	2	14.97	17.89
2	1	15.06	15.43

Note2: The antenna is the cross-polarized antenna; it doesn't need to evaluate array gain.

Note3: The above information was declared by manufacturer.

For 5GHz function:**For IEEE 802.11a/n/ac/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11a_Nss 1,(6D)	0.628	2.02	1.981m	1k
802.11ax HEW20_Nss 1,(M0)	0.919	0.37	5.45m	200
802.11ax HEW40_Nss 1,(M0)	0.87	0.6	5.45m	200
802.11ax HEW80_Nss 1,(M0)	0.918	0.37	5.45m	200

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	Power from PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☐	Indoor P2M
	☒	Fixed P2P	☐	Client
	☐	Point-to-multipoint	☒	Point-to-point
Channel Puncturing Function	☐	Supported Static Puncturing		
	☐	Supported Dynamic Puncturing (Reduce BW)		
	☒	Unsupported		
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QRCT 4.0.00194.0			

Note: The above information was declared by manufacturer.



1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR472329-01

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Adding support for the 5GHz UNII1 bands.	1. Emission Bandwidth 2. Maximum Output Power 3. Power Spectral Density 4. Unwanted Emissions (Above 1GHz)



1.2 Applicable 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
- ♦ FCC KDB 789033 D02 v02r01

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

- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location Information				
Test Lab. : Sporton International Inc. Hsinchu Laboratory				
Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)				
(TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085				
Test site Designation No. TW3787 with FCC.				
Conformity Assessment Body Identifier (CABID) TW3787 with ISED.				

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Lee	21.7~22.8 / 59~63	Aug. 04, 2025~ Aug. 06, 2025
Radiated above	03CH01-CB	Eason Chen	21.3~22.3 / 58~61	Aug. 05, 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))

Parameter	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
802.11ax HEW20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
802.11ax HEW40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
802.11ax HEW80_Nss1,(MCS0)_2TX
5210MHz

Note:

- ♦ HEW20 / HEW40 / HEW80 covers HT20 / HT40 / VHT20 / VHT40 / VHT80 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 / VHT80 is the same or lower than HEW20 / HEW40 / HEW80.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Conducted measurement at transmit chains
Operating Mode > 1GHz	CTX (Harmonic & Bandedge)
1	EUT

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 (Cabinet) After evaluating, and the worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Y axis

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
PoE 1	CWT	P015P01	INPUT: 100-240V~, 0.5A, 50/60Hz OUTPUT: 30.0V, 0.5A, 15.0W
PoE 2	CWT	P015U06	AC INPUT: 100-240V~, 0.5A, 50/60Hz DC OUTPUT: 56.0V, 0.268A, 15.0W

2.5 Support Equipment

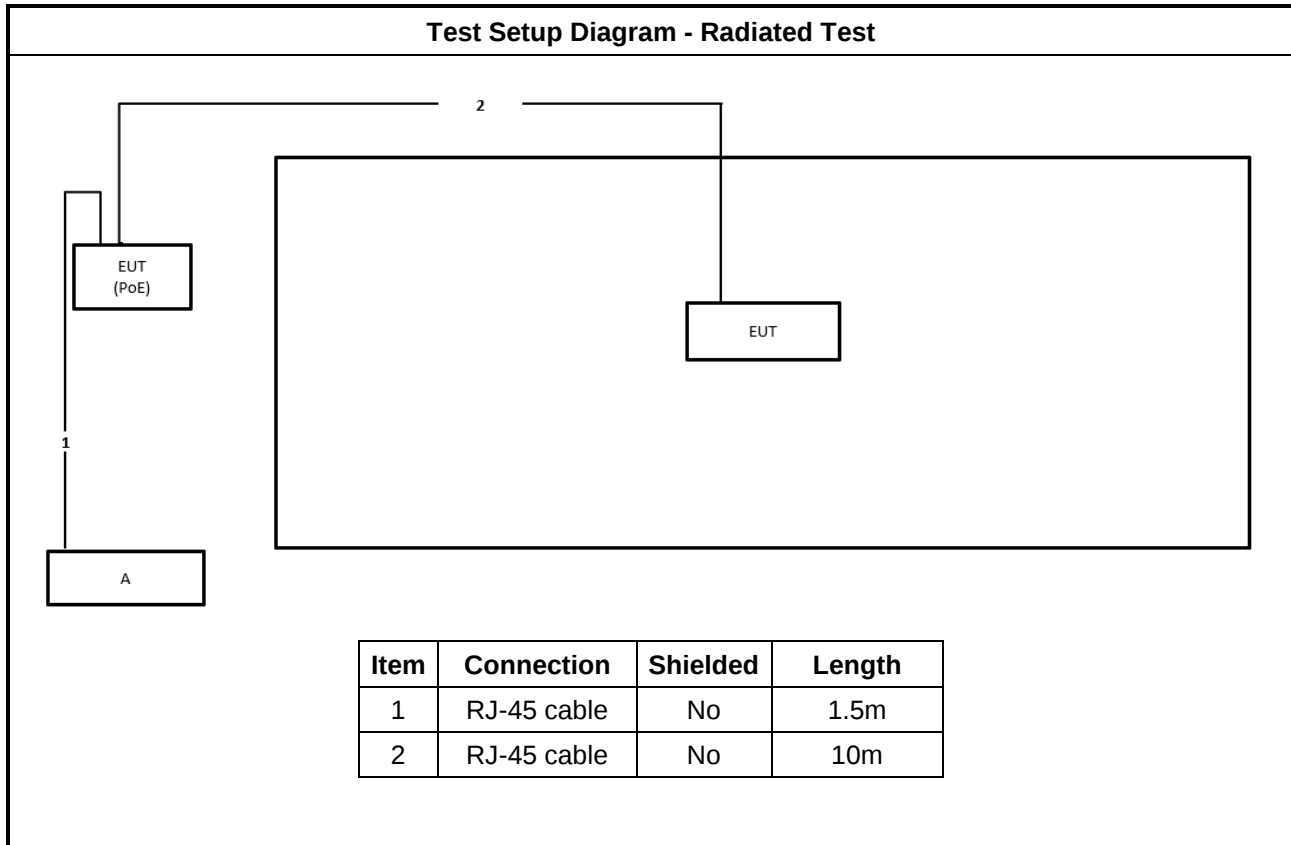
For Radiated:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	Lenovo	ThinkBook 15 G4 IAP	N/A

For RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E6230	N/A

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

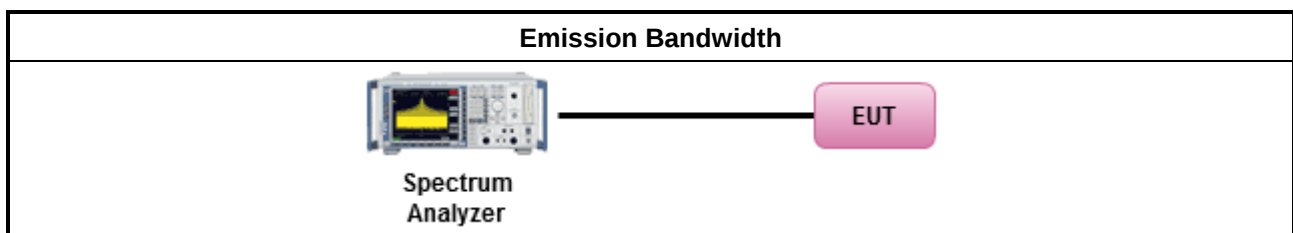
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.1.4 Test Setup





3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A



3.2 Maximum Output Power

3.2.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm]
☐	Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
☐	Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$.
☐	Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.	
☐ For the 5.725-5.85 GHz band:	
☐	Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
☐	Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band:	
☐	For other devices: The maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.25-5.35 GHz band:	
☐	For other devices: The maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log 10 B, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	



☐ For the 5.725-5.85 GHz band:	
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$.
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

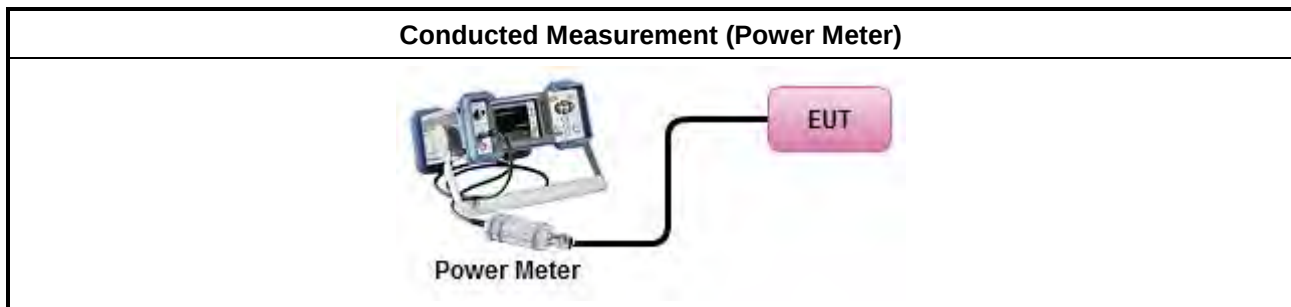
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
	Average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, 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 FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐ For radiated measurement.	
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Output Power

Refer as Appendix B



3.3 Power Spectral Density

3.3.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.	
☐	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; -13 - 0.716 ($\theta$-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐ 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.	

3.3.2 Measuring Instruments

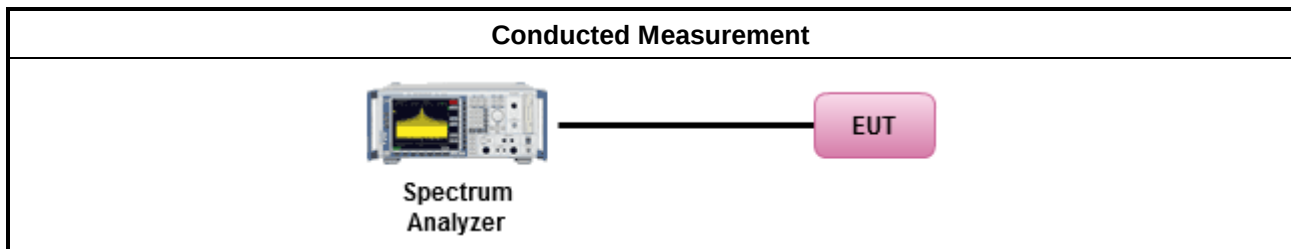
Refer a test equipment and calibration data table in this test report.



3.3.3 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 FCC KDB 789033 D02, 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% or external video / power trigger]	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033 D02, 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:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
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]) $EIRP_{total} = PPSD_{total} + DG$	
☐ For radiated measurement.	
- Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing" - Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz. - Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.	

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C



3.4 Unwanted Emissions

3.4.1 Transmitter 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	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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).



3.4.2 Measuring Instruments

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

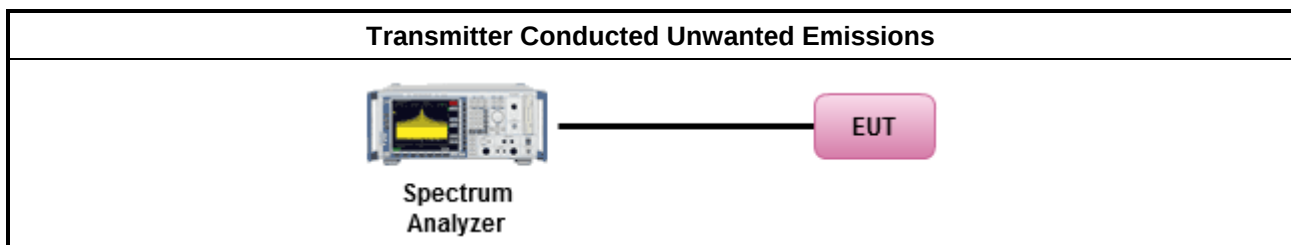
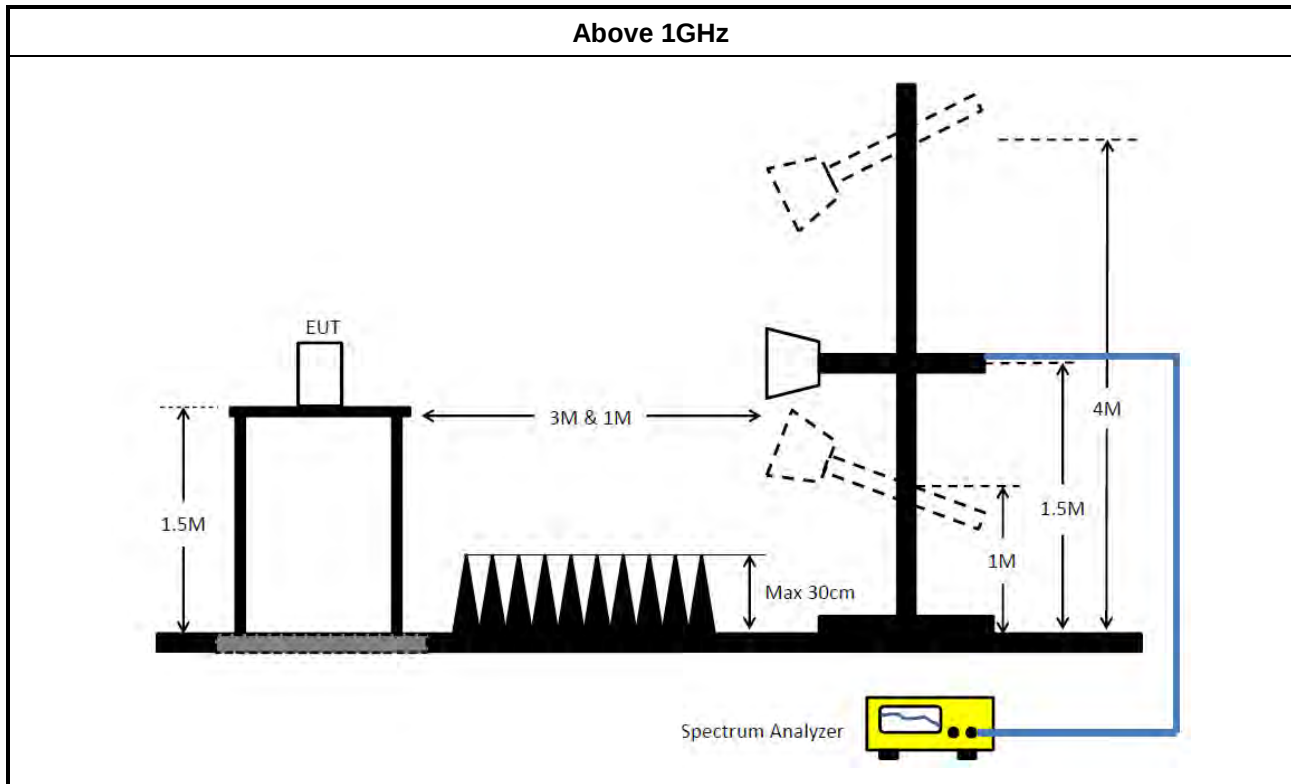
3.4.3 Test Procedures

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 FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033 D02, clause G)5) 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.	



Test Method	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 789033 D02, clause G)3).	
	▪ For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.4.4 Test Setup



3.4.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.4.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 03, 2025	May 02, 2026	Radiation (03CH01-CB)
Horn Antenna	ETS-Lindgren	3115	00143147	750MHz~18GHz z	Oct. 18, 2024	Oct. 17, 2025	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 23, 2024	Sep. 22, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 16, 2025	May 15, 2026	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 25, 2024	Nov. 24, 2025	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2024	Dec. 11, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-1540 7_NII	V5.11. 23	5.15GHz- 7.115GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2025	May 26, 2026	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~18 GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~ 40GHz	Sep. 13, 2024	Sep. 12, 2025	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~ 40GHz	Sep. 13, 2024	Sep. 12, 2025	Conducted (TH01-CB)
Test Software	SPORTON	SENSE-1540 7_NII	V5.11. 23	5.15GHz- 7.115GHz	N.C.R.	N.C.R.	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

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	20.24M	16.412M	16M4D1D	18.59M	16.378M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.285M	18.956M	19M0D1D	20.35M	18.901M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.37M	37.764M	37M8D1D	39.6M	37.663M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.62M	77.096M	77M1D1D	81.18M	77.052M

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

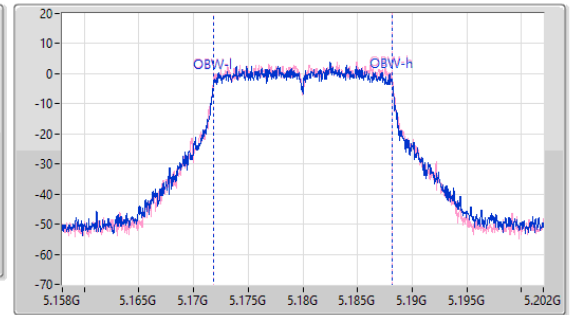
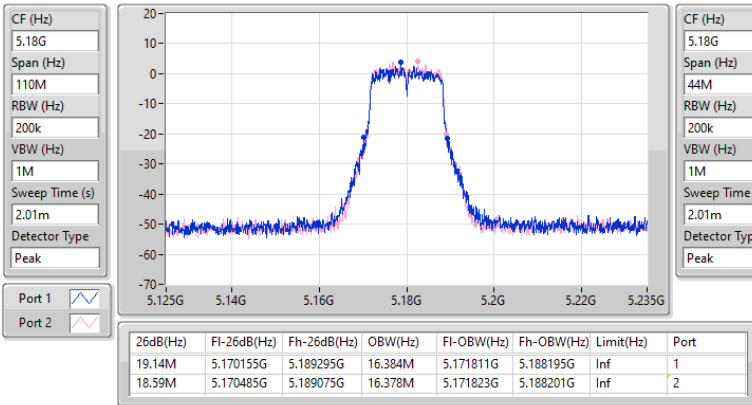
Result

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	19.14M	16.384M	18.59M	16.378M
5200MHz	Pass	Inf	19.305M	16.412M	19.03M	16.393M
5240MHz	Pass	Inf	20.24M	16.401M	19.745M	16.4M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	Inf	20.735M	18.912M	20.35M	18.906M
5200MHz	Pass	Inf	20.625M	18.956M	20.735M	18.901M
5240MHz	Pass	Inf	20.845M	18.913M	21.285M	18.927M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	Inf	39.6M	37.663M	40.26M	37.747M
5230MHz	Pass	Inf	40.04M	37.764M	40.37M	37.731M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	Inf	81.62M	77.096M	81.18M	77.052M

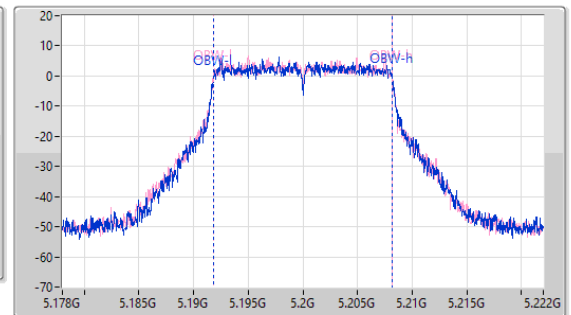
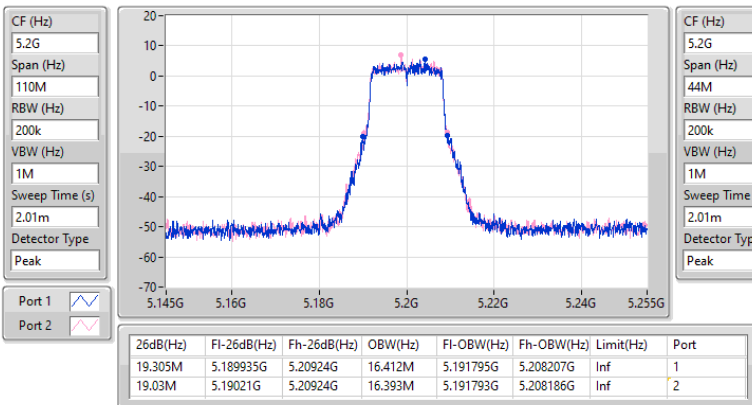
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5180MHz

04/08/2025

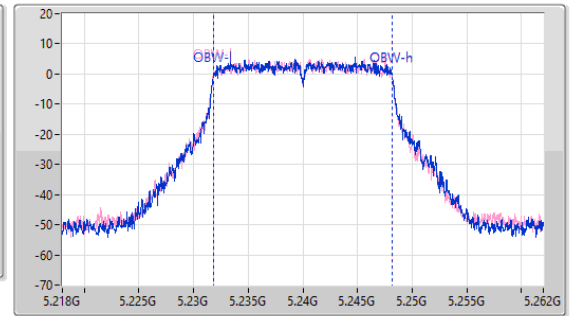
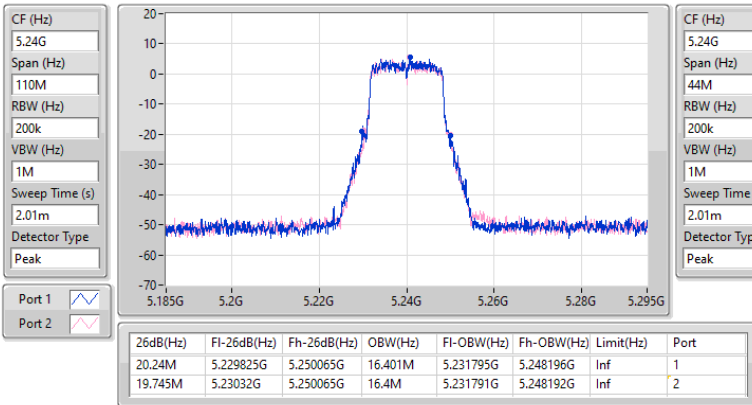

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5200MHz

04/08/2025

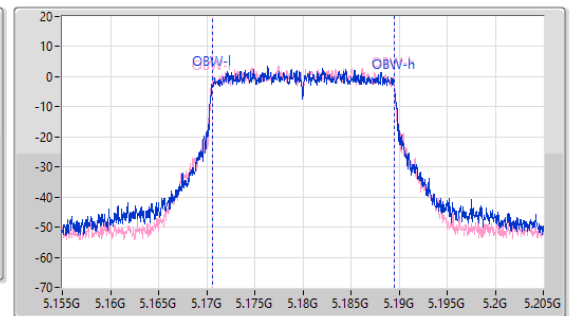
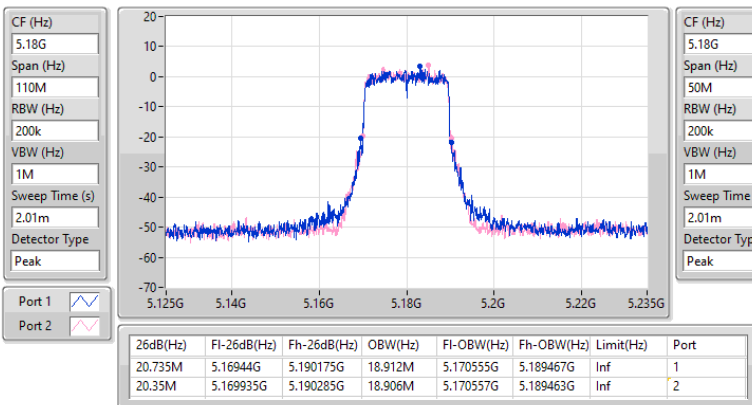


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX
EBW
5240MHz

04/08/2025


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX
EBW
5180MHz

04/08/2025

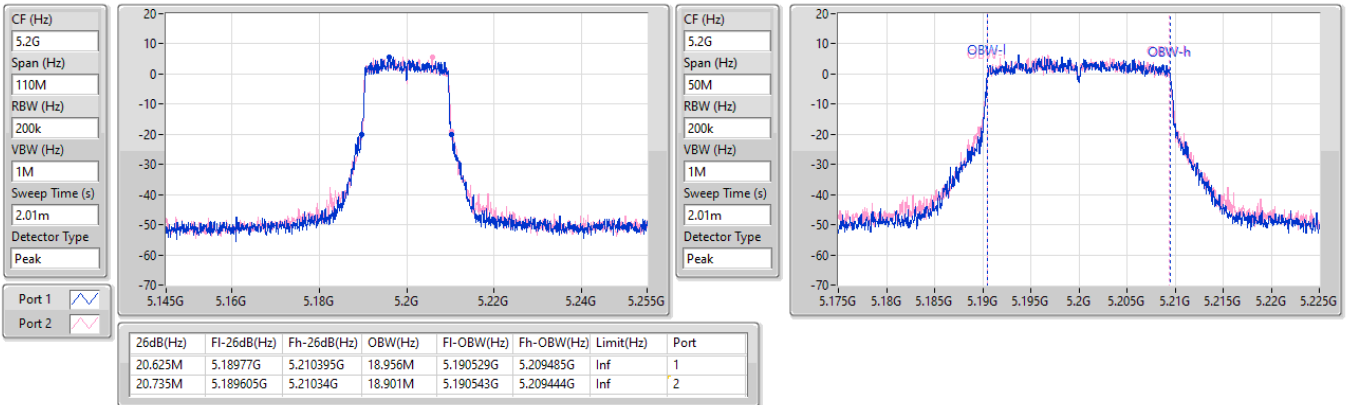


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5200MHz

04/08/2025

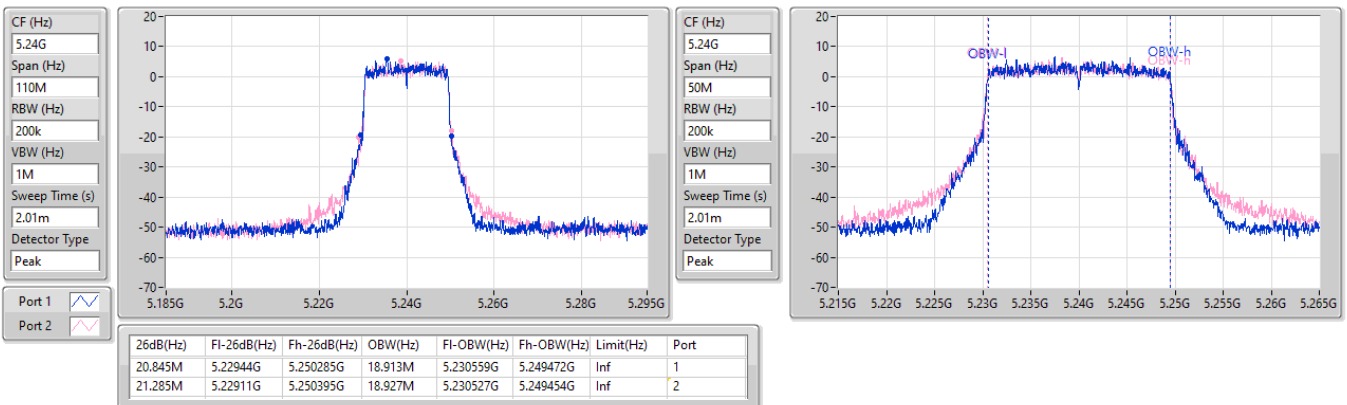


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

EBW

5240MHz

04/08/2025

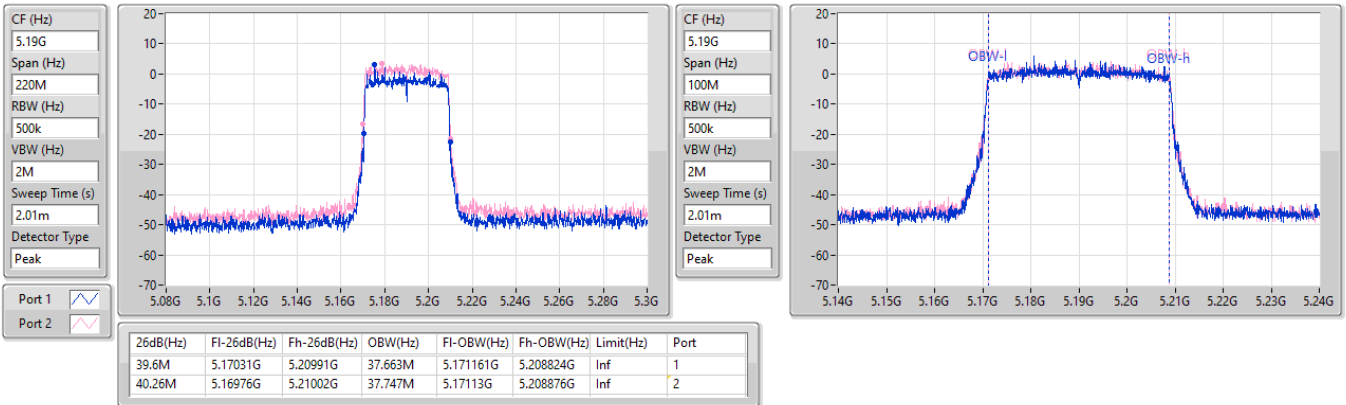


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5190MHz

04/08/2025

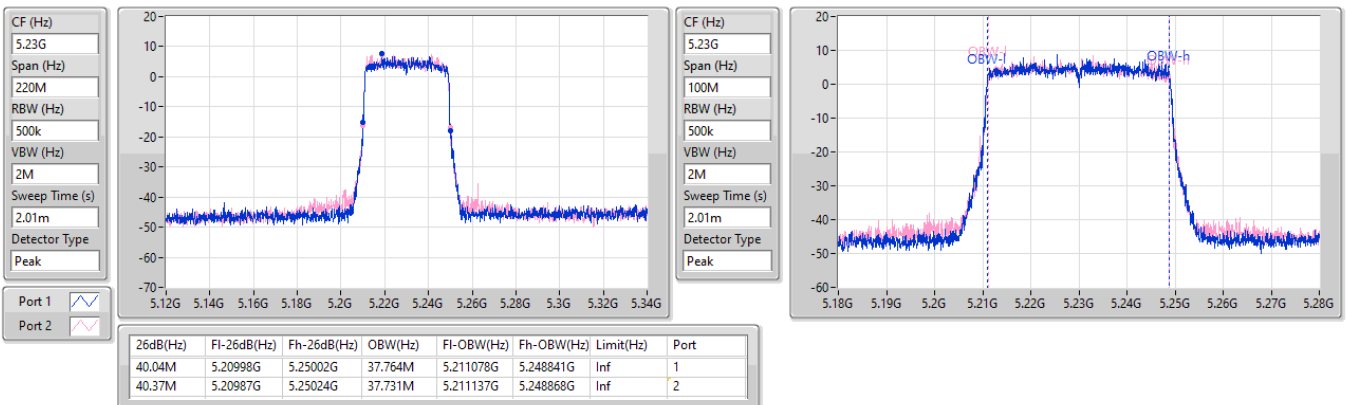


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

5230MHz

04/08/2025

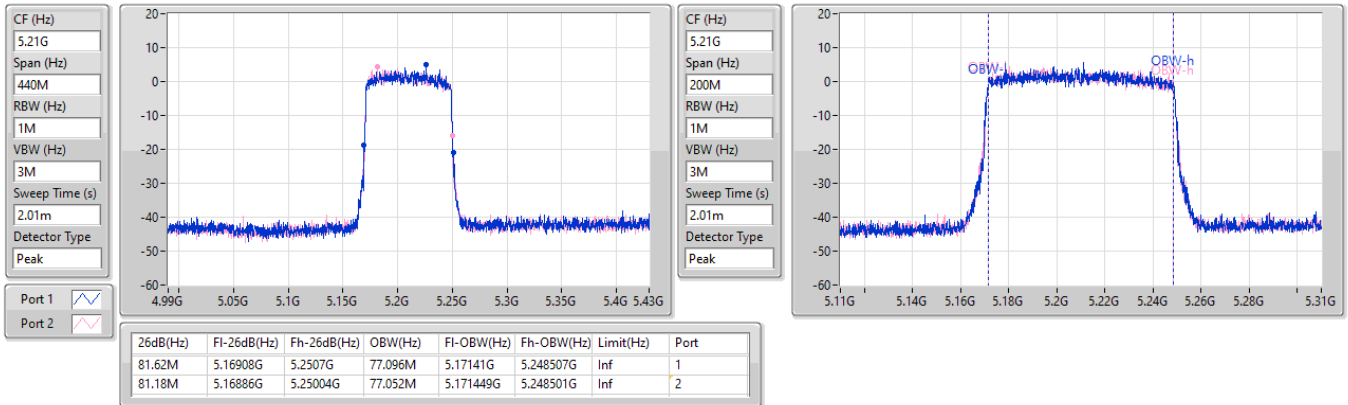


5.15-5.25GHz_802.11ax_HEW80_Nss1,(MCS0)_2TX

EBW

5210MHz

04/08/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	20.22	0.10520
802.11ax HEW20_Nss1,(MCS0)_2TX	20.05	0.10116
802.11ax HEW40_Nss1,(MCS0)_2TX	19.80	0.09550
802.11ax HEW80_Nss1,(MCS0)_2TX	16.12	0.04093



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	15.06	14.57	15.16	17.89	30.00
5200MHz	Pass	15.06	17.09	17.33	20.22	30.00
5240MHz	Pass	15.06	17.07	17.11	20.10	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	15.06	14.56	14.82	17.70	30.00
5200MHz	Pass	15.06	16.96	17.12	20.05	30.00
5240MHz	Pass	15.06	16.69	16.76	19.74	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	15.06	13.12	13.47	16.31	30.00
5230MHz	Pass	15.06	16.72	16.85	19.80	30.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	15.06	13.03	13.19	16.12	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_2TX	9.15
802.11ax HEW20_Nss1,(MCS0)_2TX	7.11
802.11ax HEW40_Nss1,(MCS0)_2TX	4.31
802.11ax HEW80_Nss1,(MCS0)_2TX	-2.60

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)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5180MHz	Pass	15.06	3.97	4.42	6.01	17.00
5200MHz	Pass	15.06	6.52	6.58	9.15	17.00
5240MHz	Pass	15.06	6.54	6.39	9.02	17.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5180MHz	Pass	15.06	1.50	1.94	4.66	17.00
5200MHz	Pass	15.06	4.28	4.09	7.11	17.00
5240MHz	Pass	15.06	4.31	3.98	7.05	17.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5190MHz	Pass	15.06	-2.32	-2.02	0.81	17.00
5230MHz	Pass	15.06	1.53	1.47	4.31	17.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5210MHz	Pass	15.06	-5.40	-5.53	-2.60	17.00

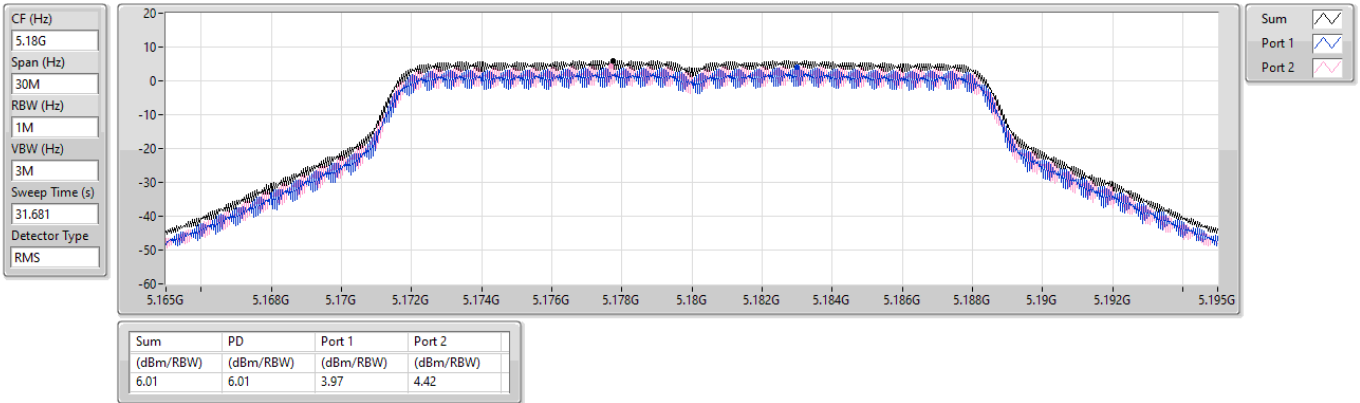
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

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

PSD

5180MHz

06/08/2025

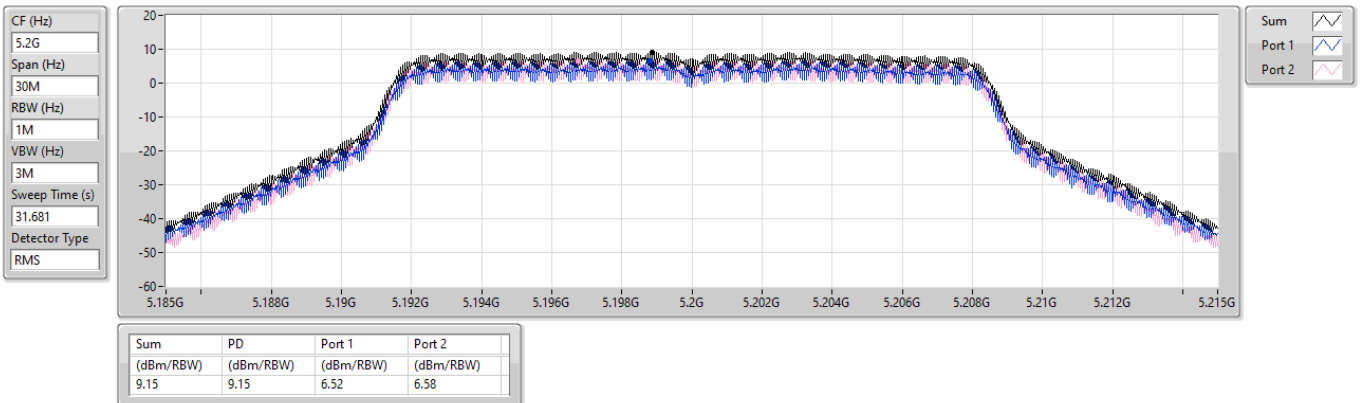


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5200MHz

06/08/2025



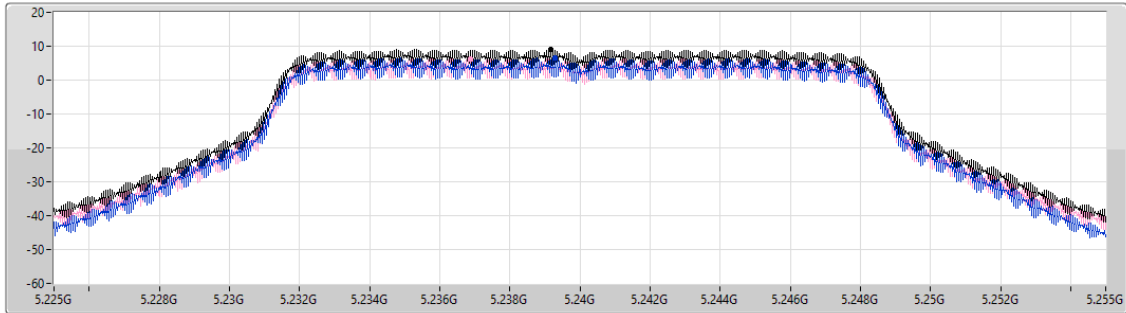
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

PSD

5240MHz

06/08/2025

CF (Hz)
5.24G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
31.681
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.02	9.02	6.54	6.39

Sum
Port 1
Port 2

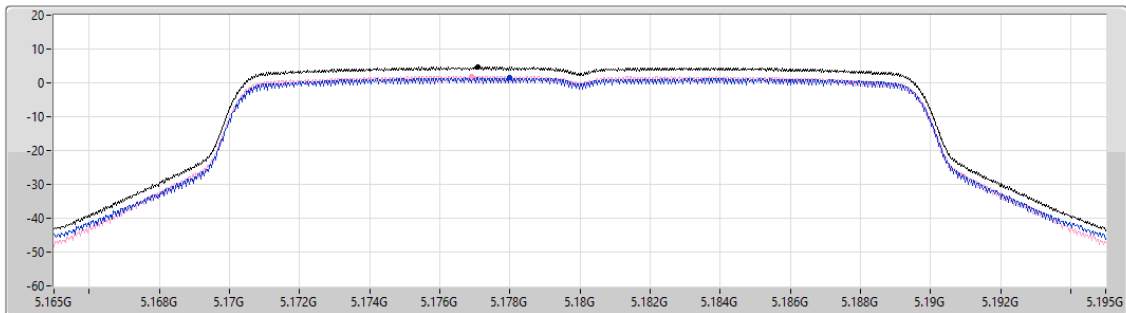
5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

PSD

5180MHz

06/08/2025

CF (Hz)
5.18G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
59.09
Detector Type
RMS



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.66	4.66	1.50	1.94

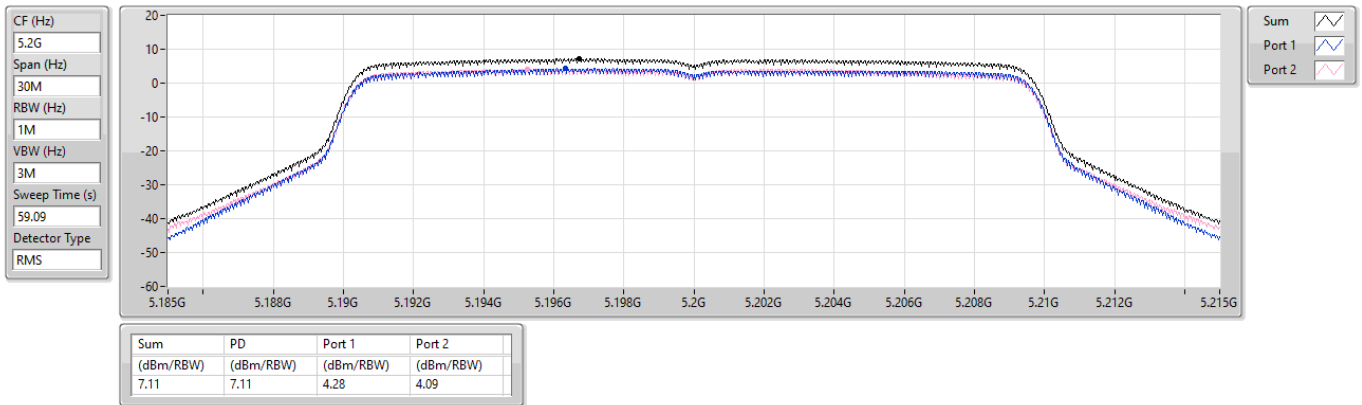
Sum
Port 1
Port 2

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

PSD

5200MHz

06/08/2025

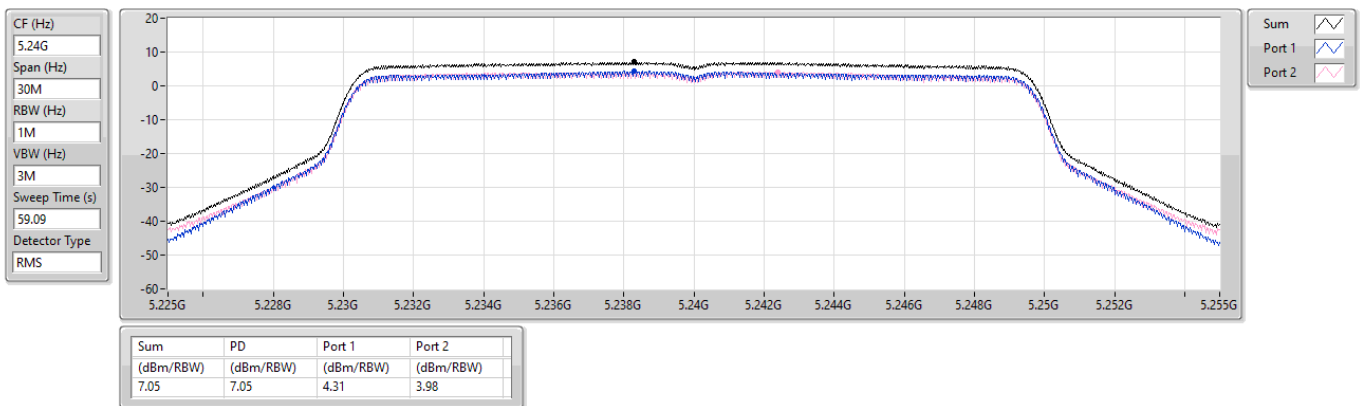


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

5240MHz

06/08/2025



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

PSD

5190MHz

06/08/2025

CF (Hz)
5.19G

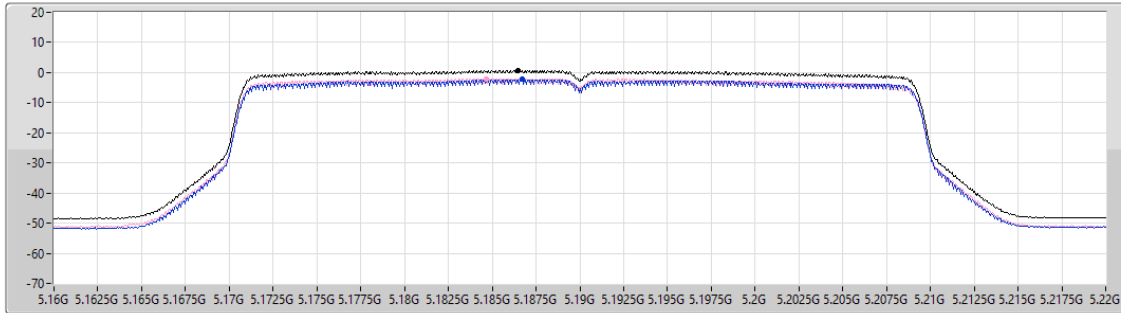
Span (Hz)
60M

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/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.81	0.81	-2.32	-2.02

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

PSD

5230MHz

06/08/2025

CF (Hz)
5.23G

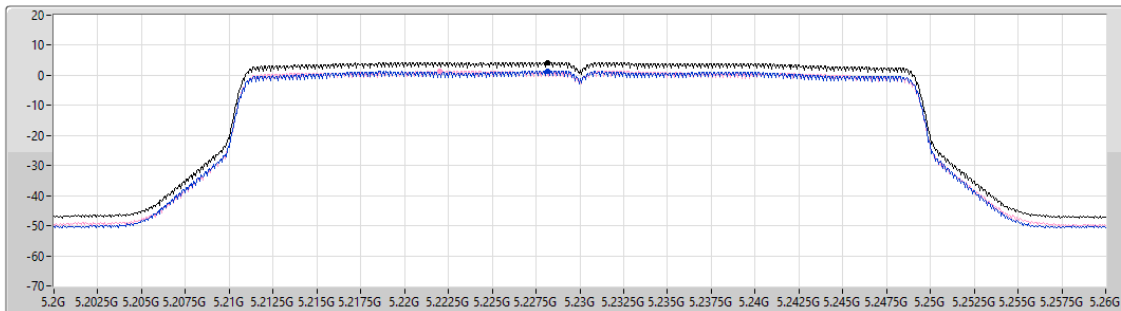
Span (Hz)
60M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
60

Detector Type
RMS



Sum

Port 1

Port 2

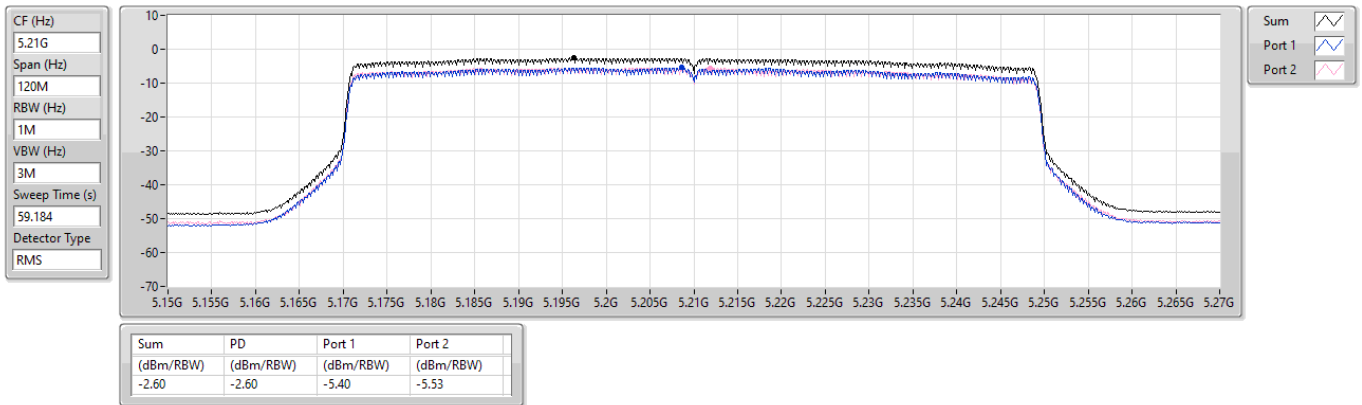
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
4.31	4.31	1.53	1.47

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

PSD

5210MHz

06/08/2025





Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	EIRP (dBm)	Psum (dBm)	P2 (dBm)	P1 (dBm)	Limit (dBm)	Margin (dB)	DG (dB)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1(6Mbps)_2TX	Pass	1G	8G	AV	-46.68	-61.74	-62.57	-69.31	-41.20	-5.48	15.06
802.11ax HEW20_Nss1(MCS0)_2TX	Pass	1G	8G	AV	-47.72	-62.78	-63.69	-70.01	-41.20	-6.52	15.06
802.11ax HEW40_Nss1(MCS0)_2TX	Pass	1G	8G	AV	-46.68	-61.74	-63.88	-65.84	-41.20	-5.48	15.06
802.11ax HEW80_Nss1(MCS0)_2TX	Pass	1G	8G	AV	-50.03	-65.09	-66.88	-69.79	-41.20	-8.83	15.06

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX



Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)	P2 (dBm)
802.11a_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	1G	8G	AV	5.088G	15.06	-69.44	-65.94	-64.34	-49.28	-41.20	-8.08	-65.94
5180MHz	Pass	1G	8G	AV	5.36538G	15.06	-73.14	-68.50	-67.22	-52.16	-41.20	-10.96	-68.50
5180MHz	Pass	1G	8G	PK	5.12475G	15.06	-60.78	-58.42	-56.43	-41.37	-21.20	-20.17	-58.42
5180MHz	Pass	1G	8G	PK	5.3645G	15.06	-66.34	-59.56	-58.73	-43.67	-21.20	-22.47	-59.56
5180MHz	Pass	1G	8G	PK	5.522G	15.06	-63.85	-67.24	-62.21	-47.15	-27.00	-20.15	-67.24
5200MHz	Pass	1G	8G	AV	5.10725G	15.06	-69.31	-62.57	-61.74	-46.68	-41.20	-5.48	-62.57
5200MHz	Pass	1G	8G	AV	5.3505G	15.06	-68.90	-68.07	-65.45	-50.39	-41.20	-9.19	-68.07
5200MHz	Pass	1G	8G	PK	5.10113G	15.06	-62.16	-53.51	-52.95	-37.89	-21.20	-16.69	-53.51
5200MHz	Pass	1G	8G	PK	5.35138G	15.06	-58.37	-60.22	-56.19	-41.13	-21.20	-19.93	-60.22
5200MHz	Pass	1G	8G	PK	5.522G	15.06	-63.03	-68.28	-61.90	-46.84	-27.00	-19.84	-68.28
5240MHz	Pass	1G	8G	AV	5.088G	15.06	-66.72	-66.22	-63.45	-48.39	-41.20	-7.19	-66.22
5240MHz	Pass	1G	8G	AV	5.35313G	15.06	-68.85	-70.81	-66.71	-51.65	-41.20	-10.45	-70.81
5240MHz	Pass	1G	8G	PK	5.09938G	15.06	-58.71	-58.21	-55.44	-40.38	-21.20	-19.18	-58.21
5240MHz	Pass	1G	8G	PK	5.382G	15.06	-61.40	-60.00	-57.63	-42.57	-21.20	-21.37	-60.00
5240MHz	Pass	1G	8G	PK	5.5255G	15.06	-63.15	-68.78	-62.10	-47.04	-27.00	-20.04	-68.78
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	1G	8G	AV	5.088G	15.06	-70.27	-66.82	-65.20	-50.14	-41.20	-8.94	-66.82
5180MHz	Pass	1G	8G	AV	5.36275G	15.06	-73.40	-69.58	-68.07	-53.01	-41.20	-11.81	-69.58
5180MHz	Pass	1G	8G	PK	5.08538G	15.06	-64.42	-58.11	-57.20	-42.14	-21.20	-20.94	-58.11
5180MHz	Pass	1G	8G	PK	5.36713G	15.06	-66.12	-59.78	-58.87	-43.81	-21.20	-22.61	-59.78
5180MHz	Pass	1G	8G	PK	5.51588G	15.06	-63.29	-69.32	-62.32	-47.26	-27.00	-20.26	-69.32
5200MHz	Pass	1G	8G	AV	5.10725G	15.06	-70.01	-63.69	-62.78	-47.72	-41.20	-6.52	-63.69
5200MHz	Pass	1G	8G	AV	5.35225G	15.06	-68.31	-69.09	-65.67	-50.61	-41.20	-9.41	-69.09
5200MHz	Pass	1G	8G	PK	5.10025G	15.06	-62.28	-54.42	-53.76	-38.70	-21.20	-17.50	-54.42
5200MHz	Pass	1G	8G	PK	5.35313G	15.06	-61.49	-59.80	-57.55	-42.49	-21.20	-21.29	-59.80
5200MHz	Pass	1G	8G	PK	5.54388G	15.06	-62.26	-69.94	-61.58	-46.52	-27.00	-19.52	-69.94
5240MHz	Pass	1G	8G	AV	5.088G	15.06	-67.25	-66.31	-63.74	-48.68	-41.20	-7.48	-66.31
5240MHz	Pass	1G	8G	AV	5.3505G	15.06	-69.70	-70.35	-67.00	-51.94	-41.20	-10.74	-70.35
5240MHz	Pass	1G	8G	PK	5.053G	15.06	-63.83	-55.86	-55.22	-40.16	-21.20	-18.96	-55.86
5240MHz	Pass	1G	8G	PK	5.3505G	15.06	-60.61	-61.52	-58.03	-42.97	-21.20	-21.77	-61.52
5240MHz	Pass	1G	8G	PK	5.53425G	15.06	-62.81	-69.01	-61.88	-46.82	-27.00	-19.82	-69.01
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	1G	8G	AV	5.088G	15.06	-70.85	-67.67	-65.96	-50.90	-41.20	-9.70	-67.67
5190MHz	Pass	1G	8G	AV	5.35225G	15.06	-73.48	-71.40	-69.31	-54.25	-41.20	-13.05	-71.40
5190MHz	Pass	1G	8G	PK	5.10638G	15.06	-61.85	-59.30	-57.38	-42.32	-21.20	-21.12	-59.30
5190MHz	Pass	1G	8G	PK	5.35225G	15.06	-64.27	-62.01	-59.98	-44.92	-21.20	-23.72	-62.01
5190MHz	Pass	1G	8G	PK	5.529G	15.06	-64.60	-68.62	-63.15	-48.09	-27.00	-21.09	-68.62
5230MHz	Pass	1G	8G	AV	5.1195G	15.06	-65.84	-63.88	-61.74	-46.68	-41.20	-5.48	-63.88
5230MHz	Pass	1G	8G	AV	5.35225G	15.06	-66.60	-67.68	-64.10	-49.04	-41.20	-7.84	-67.68
5230MHz	Pass	1G	8G	PK	5.11775G	15.06	-56.52	-54.58	-52.43	-37.37	-21.20	-16.17	-54.58
5230MHz	Pass	1G	8G	PK	5.35138G	15.06	-57.29	-58.69	-54.92	-39.86	-21.20	-18.66	-58.69
5230MHz	Pass	1G	8G	PK	5.522G	15.06	-63.50	-69.27	-62.48	-47.42	-27.00	-20.42	-69.27
802.11ax HEW80_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	1G	8G	AV	5.12563G	15.06	-69.79	-66.88	-65.09	-50.03	-41.20	-8.83	-66.88
5210MHz	Pass	1G	8G	AV	5.3505G	15.06	-70.61	-69.61	-67.07	-52.01	-41.20	-10.81	-69.61
5210MHz	Pass	1G	8G	PK	5.11425G	15.06	-62.50	-57.09	-55.99	-40.93	-21.20	-19.73	-57.09
5210MHz	Pass	1G	8G	PK	5.35488G	15.06	-62.71	-61.87	-59.26	-44.20	-21.20	-23.00	-61.87
5210MHz	Pass	1G	8G	PK	5.53338G	15.06	-62.78	-68.39	-61.73	-46.67	-27.00	-19.67	-68.39

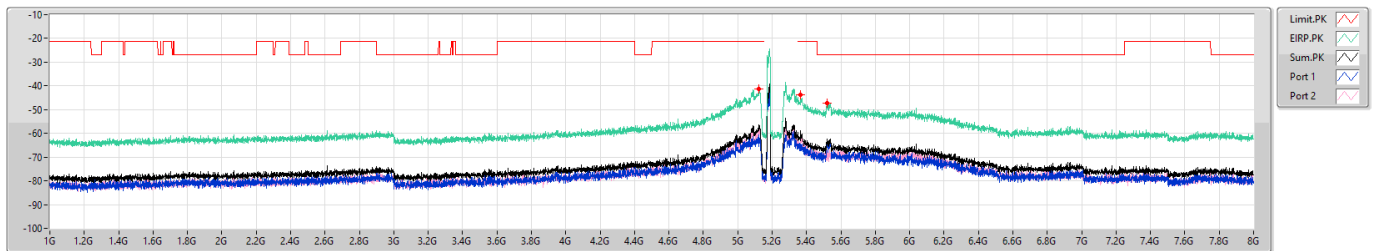
DG = Directional Gain; PX=Port X; Psum=P1+P2+...PX

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

CSE Other [PK]

5180MHz

06/08/2025



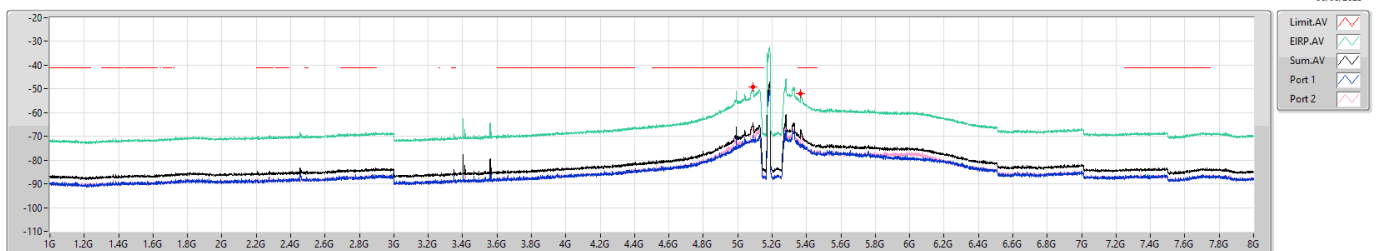
F.Start(Hz)	F.Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.12475G	-41.37	-21.20	-20.17	15.06	0.00	-56.43	-60.78	-58.42
1G	8G	1M	PK	5.3645G	-43.67	-21.20	-22.47	15.06	0.00	-58.73	-66.34	-59.56
1G	8G	1M	PK	5.522G	-47.15	-27.00	-20.15	15.06	0.00	-62.21	-63.85	-67.24

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

CSE Other [AV]

5180MHz

06/08/2025



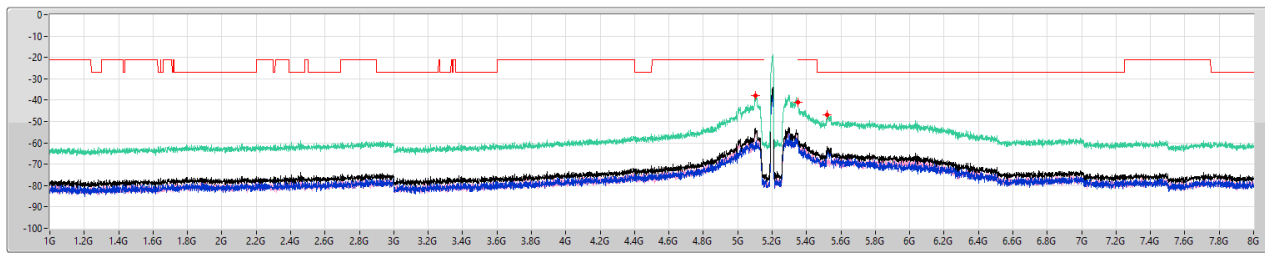
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1G	8G	1M	AV	5.088G	-49.28	-41.20	-8.08	15.06	0.00	-64.34	-69.44	-65.94
1G	8G	1M	AV	5.36538G	-52.16	-41.20	-10.96	15.06	0.00	-67.22	-73.14	-68.50

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

CSE Other [PK]

5200MHz

06/08/2025



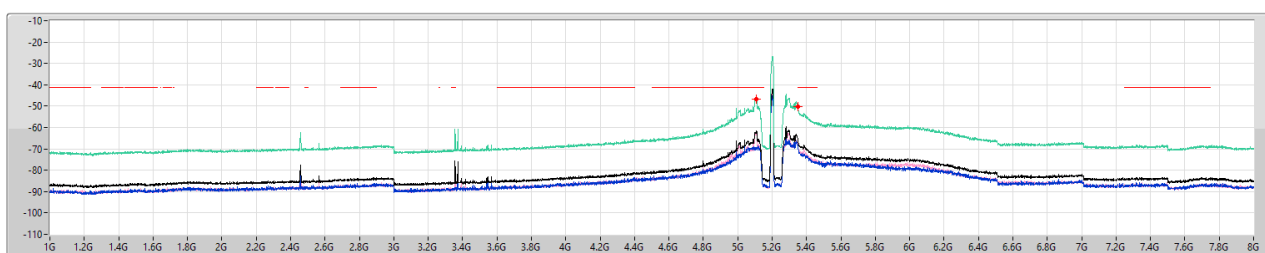
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref1(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.10113G	-37.89	-21.20	-16.69	15.06	0.00	-52.95	-62.16	-53.51
1G	8G	1M	PK	5.35138G	-41.13	-21.20	-19.93	15.06	0.00	-56.19	-58.37	-60.22
1G	8G	1M	PK	5.522G	-46.84	-27.00	-19.84	15.06	0.00	-61.90	-63.03	-66.28

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

CSE Other [AV]

5200MHz

06/08/2025



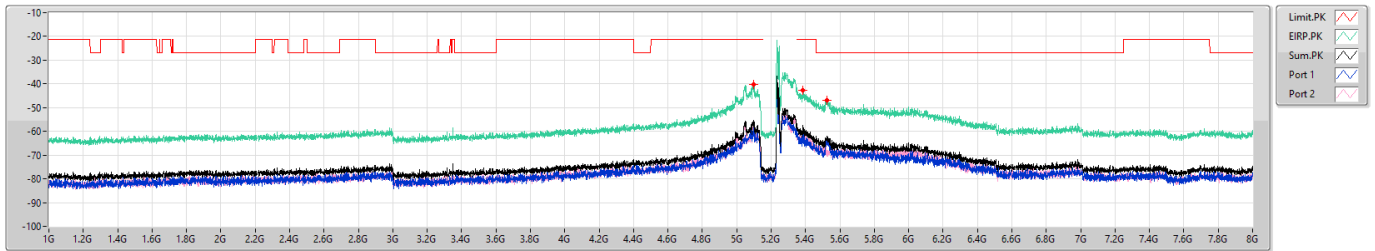
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref1(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.10725G	-46.68	-41.20	-5.48	15.06	0.00	-61.74	-69.31	-62.57
1G	8G	1M	AV	5.3505G	-50.39	-41.20	-9.19	15.06	0.00	-65.45	-68.90	-68.07

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

CSE Other [PK]

5240MHz

06/08/2025

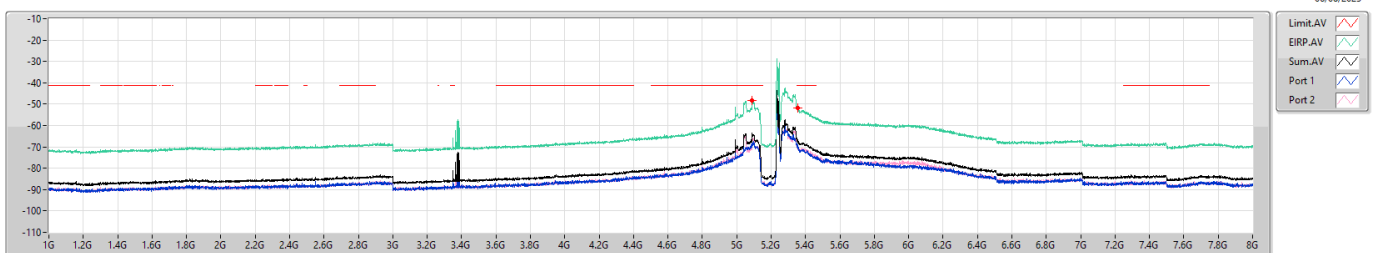


5.15-5.25GHz_802.11a_Nss1,(6Mbps)_2TX

CSE Other [AV]

5240MHz

06/08/2025

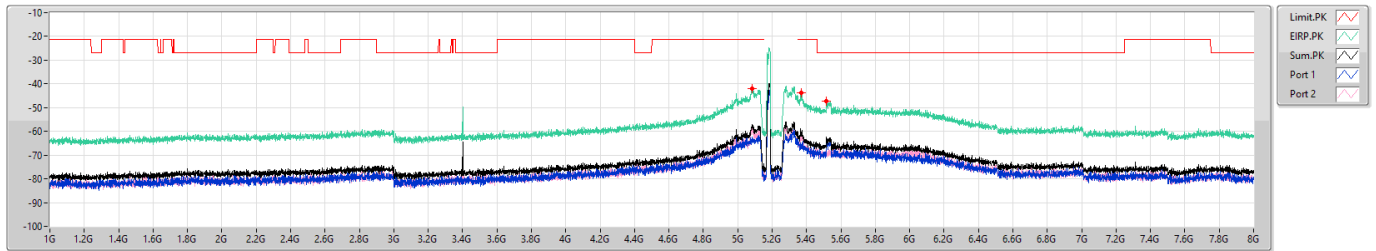


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

CSE Other [PK]

5180MHz

06/08/2025



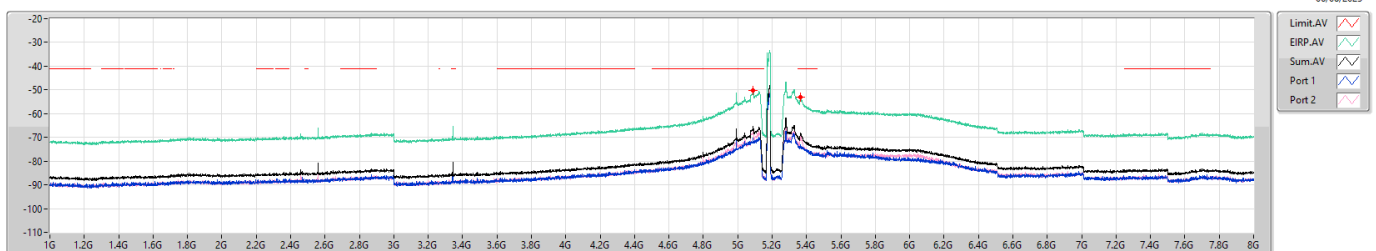
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.08538G	-42.14	-21.20	-20.94	15.06	0.00	-57.20	-64.42	-58.11
1G	8G	1M	PK	5.36713G	-43.81	-21.20	-22.61	15.06	0.00	-58.87	-66.12	-59.78
1G	8G	1M	PK	5.51588G	-47.26	-27.00	-20.26	15.06	0.00	-62.32	-63.29	-69.32

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

CSE Other [AV]

5180MHz

06/08/2025



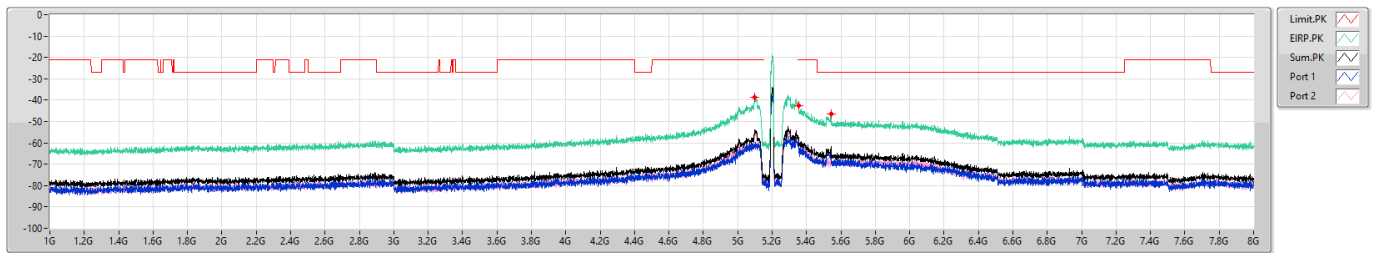
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.088G	-50.14	-41.20	-8.94	15.06	0.00	-65.20	-70.27	-66.82
1G	8G	1M	AV	5.36275G	-53.01	-41.20	-11.81	15.06	0.00	-68.07	-73.40	-69.58

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

CSE Other [PK]

5200MHz

06/08/2025



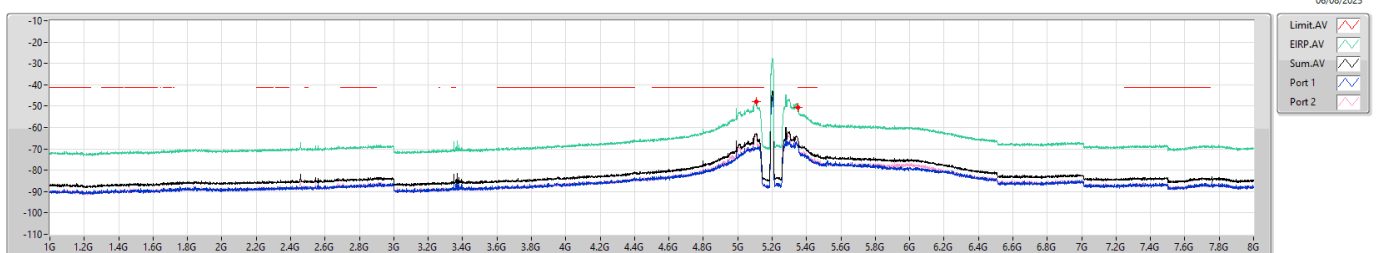
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.10025G	-38.70	-21.20	-17.50	15.06	0.00	-53.76	-62.28	-54.42
1G	8G	1M	PK	5.35313G	-42.49	-21.20	-21.29	15.06	0.00	-57.55	-61.49	-59.80
1G	8G	1M	PK	5.54388G	-46.52	-27.00	-19.52	15.06	0.00	-61.58	-62.26	-69.94

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

CSE Other [AV]

5200MHz

06/08/2025



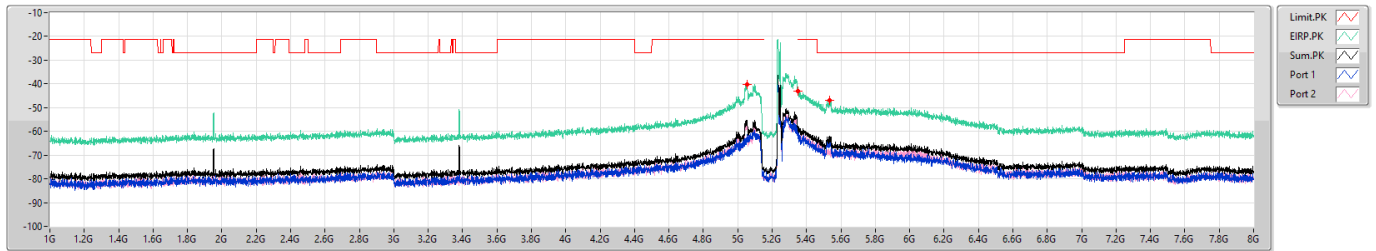
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.10725G	-47.72	-41.20	-6.52	15.06	0.00	-62.78	-70.01	-63.69
1G	8G	1M	AV	5.35225G	-50.61	-41.20	-9.41	15.06	0.00	-65.67	-68.31	-69.09

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

CSE Other [PK]

5240MHz

06/08/2025



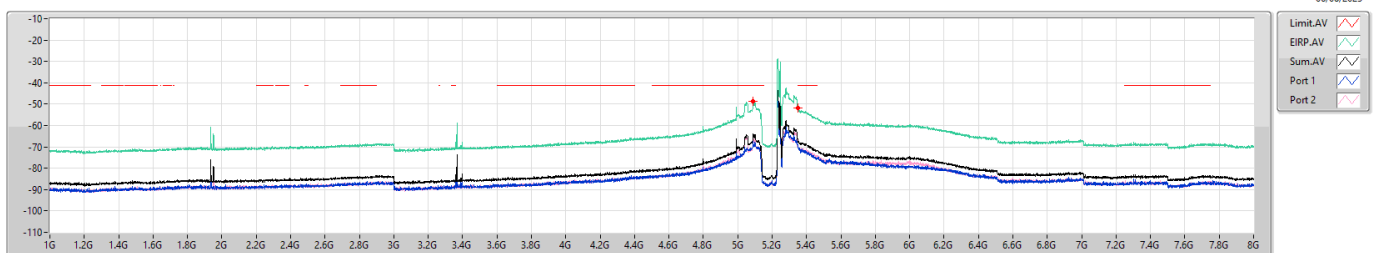
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.053G	-40.16	-21.20	-18.96	15.06	0.00	-55.22	-63.83	-55.86
1G	8G	1M	PK	5.3505G	-42.97	-21.20	-21.77	15.06	0.00	-58.03	-60.61	-61.52
1G	8G	1M	PK	5.53425G	-46.82	-27.00	-19.82	15.06	0.00	-61.88	-62.81	-69.01

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

CSE Other [AV]

5240MHz

06/08/2025



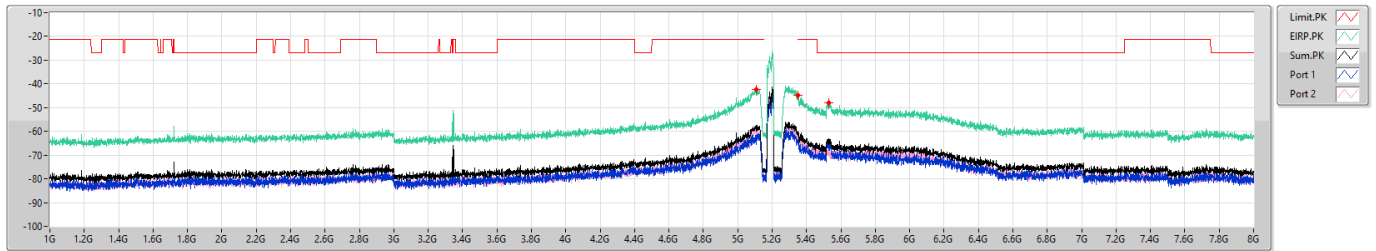
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.088G	-48.68	-41.20	-7.48	15.06	0.00	-63.74	-67.25	-66.31
1G	8G	1M	AV	5.3505G	-51.94	-41.20	-10.74	15.06	0.00	-67.00	-69.70	-70.35

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

CSE Other [PK]

5190MHz

06/08/2025

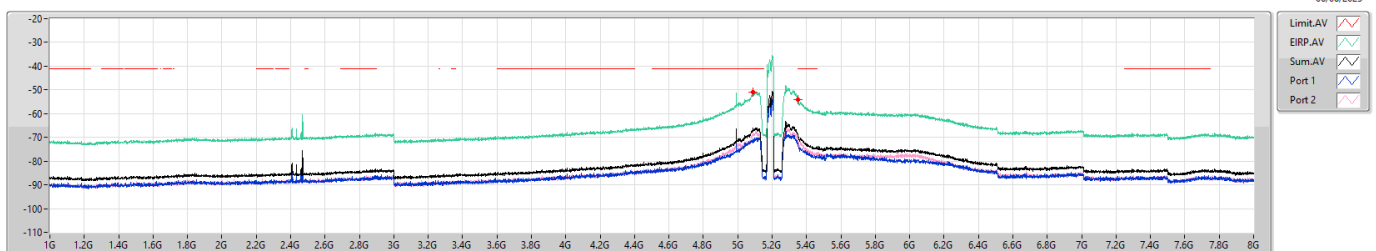


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSE Other [AV]

5190MHz

06/08/2025

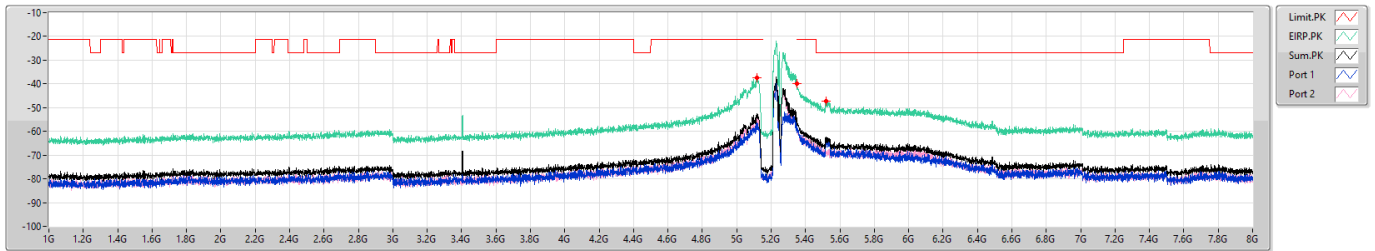


5.15-5.25GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

CSE Other [PK]

5230MHz

06/08/2025



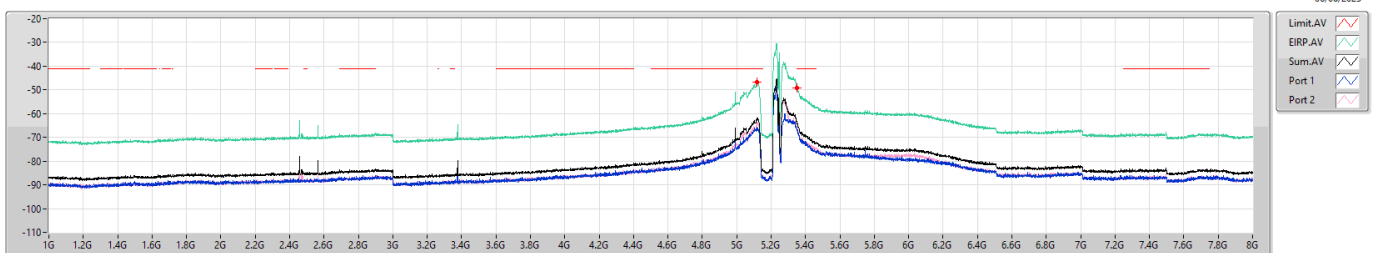
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref1(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.11775G	-37.37	-21.20	-16.17	15.06	0.00	-52.43	-56.52	-54.58
1G	8G	1M	PK	5.35138G	-39.86	-21.20	-18.66	15.06	0.00	-54.92	-57.29	-56.89
1G	8G	1M	PK	5.522G	-47.42	-27.00	-20.42	15.06	0.00	-62.48	-63.50	-69.27

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

CSE Other [AV]

5230MHz

06/08/2025



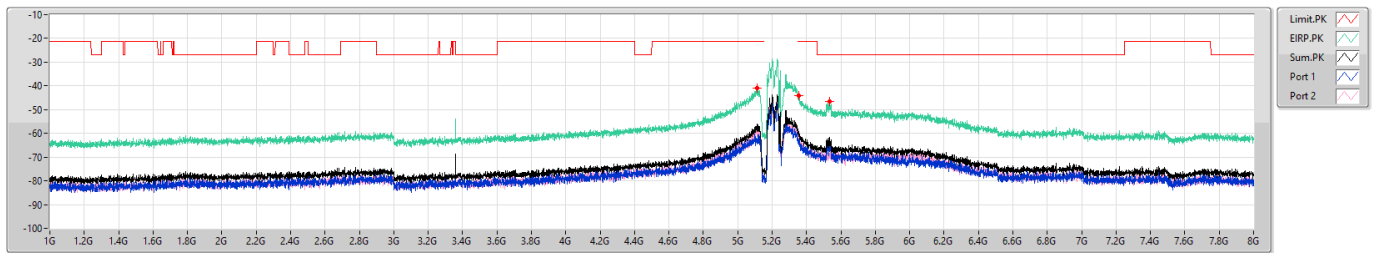
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1G	8G	1M	AV	5.1195G	-46.68	-41.20	-5.48	15.06	0.00	-61.74	-65.84	-63.88
1G	8G	1M	AV	5.35225G	-49.04	-41.20	-7.84	15.06	0.00	-64.10	-66.60	-67.68

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

CSE Other [PK]

5210MHz

06/08/2025



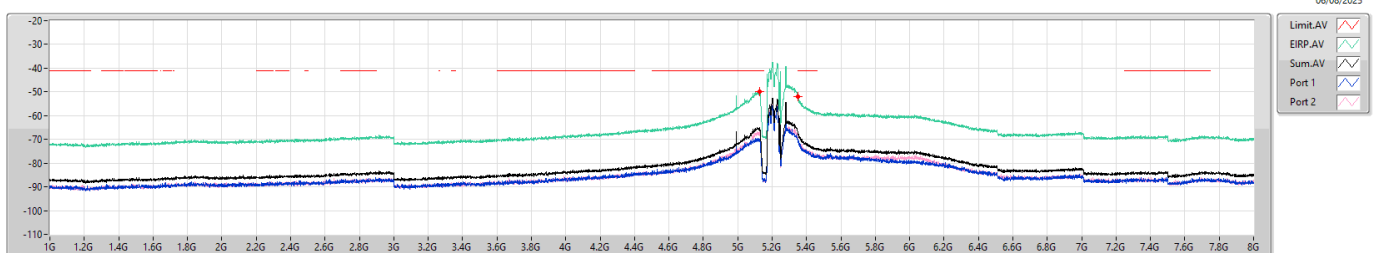
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	PK	5.11425G	-40.93	-21.20	-19.73	15.06	0.00	-55.99	-62.50	-57.09
1G	8G	1M	PK	5.35486G	-44.20	-21.20	-23.00	15.06	0.00	-59.26	-62.71	-61.87
1G	8G	1M	PK	5.53338G	-46.67	-27.00	-19.67	15.06	0.00	-61.73	-62.78	-68.39

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

CSE Other [AV]

5210MHz

06/08/2025



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	RefI(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
1G	8G	1M	AV	5.12563G	-50.03	-41.20	-8.83	15.06	0.00	-65.09	-69.79	-66.88
1G	8G	1M	AV	5.3505G	-52.01	-41.20	-10.81	15.06	0.00	-67.07	-70.61	-69.61



Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	EIRP (dBm)	Psum (dBm)	P2 (dBm)	P1 (dBm)	Limit (dBm)	Margin (dB)	DG (dBi)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1(6Mbps)_2TX	Pass	8G	40G	AV	-47.35	-62.41	-65.22	-65.62	-41.20	-6.15	15.06
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	8G	40G	AV	-48.03	-63.09	-65.80	-66.43	-41.20	-6.83	15.06
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	8G	40G	AV	-51.87	-66.93	-69.60	-70.30	-41.20	-10.67	15.06
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	8G	40G	AV	-56.57	-71.63	-73.16	-76.89	-41.20	-15.37	15.06

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)	P2 (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8G	40G	AV	10.6G	15.06	-87.70	-88.34	-85.00	-69.94	-41.20	-28.74	-88.34
5180MHz	Pass	8G	40G	AV	15.543G	15.06	-72.68	-70.13	-68.21	-53.15	-41.20	-11.95	-70.13
5180MHz	Pass	8G	40G	PK	10.344G	15.06	-81.67	-78.13	-76.54	-61.48	-27.00	-34.48	-78.13
5180MHz	Pass	8G	40G	PK	15.542G	15.06	-66.36	-60.22	-59.27	-44.21	-21.20	-23.01	-60.22
5200MHz	Pass	8G	40G	AV	10.6G	15.06	-87.94	-87.71	-84.81	-69.75	-41.20	-28.55	-87.71
5200MHz	Pass	8G	40G	AV	15.599G	15.06	-65.62	-65.22	-62.41	-47.35	-41.20	-6.15	-65.22
5200MHz	Pass	8G	40G	PK	10.414G	15.06	-77.92	-80.37	-75.96	-60.90	-27.00	-33.90	-80.37
5200MHz	Pass	8G	40G	PK	15.599G	15.06	-63.42	-57.56	-56.56	-41.50	-21.20	-20.30	-57.56
5240MHz	Pass	8G	40G	AV	10.6G	15.06	-88.43	-88.25	-85.33	-70.27	-41.20	-29.07	-88.25
5240MHz	Pass	8G	40G	AV	15.718G	15.06	-67.95	-67.61	-64.77	-49.71	-41.20	-8.51	-67.61
5240MHz	Pass	8G	40G	PK	10.469G	15.06	-81.34	-76.89	-75.56	-60.50	-27.00	-33.50	-76.89
5240MHz	Pass	8G	40G	PK	15.708G	15.06	-58.30	-62.98	-57.03	-41.97	-21.20	-20.77	-62.98
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8G	40G	AV	10.6G	15.06	-88.15	-88.59	-85.35	-70.29	-41.20	-29.09	-88.59
5180MHz	Pass	8G	40G	AV	15.542G	15.06	-74.34	-72.08	-70.05	-54.99	-41.20	-13.79	-72.08
5180MHz	Pass	8G	40G	PK	10.355G	15.06	-78.09	-81.63	-76.50	-61.44	-27.00	-34.44	-81.63
5180MHz	Pass	8G	40G	PK	33.384G	15.06	-68.36	-70.10	-66.13	-51.07	-27.00	-24.07	-70.10
5200MHz	Pass	8G	40G	AV	10.6G	15.06	-87.95	-88.49	-85.20	-70.14	-41.20	-28.94	-88.49
5200MHz	Pass	8G	40G	AV	15.601G	15.06	-66.43	-65.80	-63.09	-48.03	-41.20	-6.83	-65.80
5200MHz	Pass	8G	40G	PK	10.391G	15.06	-80.77	-79.98	-77.35	-62.29	-27.00	-35.29	-79.98
5200MHz	Pass	8G	40G	PK	15.597G	15.06	-58.99	-58.10	-55.51	-40.45	-21.20	-19.25	-58.10
5240MHz	Pass	8G	40G	AV	10.6G	15.06	-88.83	-88.36	-85.58	-70.52	-41.20	-29.32	-88.36
5240MHz	Pass	8G	40G	AV	15.72G	15.06	-68.57	-68.69	-65.62	-50.56	-41.20	-9.36	-68.69
5240MHz	Pass	8G	40G	PK	10.468G	15.06	-77.43	-78.96	-75.12	-60.06	-27.00	-33.06	-78.96
5240MHz	Pass	8G	40G	PK	15.714G	15.06	-59.52	-61.04	-57.20	-42.14	-21.20	-20.94	-61.04
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8G	40G	AV	10.6G	15.06	-88.62	-88.20	-85.39	-70.33	-41.20	-29.13	-88.20
5190MHz	Pass	8G	40G	AV	15.557G	15.06	-74.11	-73.21	-70.63	-55.57	-41.20	-14.37	-73.21
5190MHz	Pass	8G	40G	PK	10.352G	15.06	-79.55	-79.34	-76.43	-61.37	-27.00	-34.37	-79.34
5190MHz	Pass	8G	40G	PK	33.325G	15.06	-70.29	-68.05	-66.02	-50.96	-27.00	-23.96	-68.05
5230MHz	Pass	8G	40G	AV	10.6G	15.06	-88.39	-87.96	-85.16	-70.10	-41.20	-28.90	-87.96
5230MHz	Pass	8G	40G	AV	15.699G	15.06	-70.30	-69.60	-66.93	-51.87	-41.20	-10.67	-69.60
5230MHz	Pass	8G	40G	PK	10.485G	15.06	-79.03	-79.11	-76.06	-61.00	-27.00	-34.00	-79.11
5230MHz	Pass	8G	40G	PK	15.7G	15.06	-61.85	-62.48	-59.14	-44.08	-21.20	-22.88	-62.48
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	8G	40G	AV	10.6G	15.06	-88.94	-88.38	-85.64	-70.58	-41.20	-29.38	-88.38
5210MHz	Pass	8G	40G	AV	15.598G	15.06	-76.89	-73.16	-71.63	-56.57	-41.20	-15.37	-73.16
5210MHz	Pass	8G	40G	PK	10.492G	15.06	-78.85	-77.94	-75.36	-60.30	-27.00	-33.30	-77.94
5210MHz	Pass	8G	40G	PK	32.74G	15.06	-68.52	-70.10	-66.23	-51.17	-27.00	-24.17	-70.10

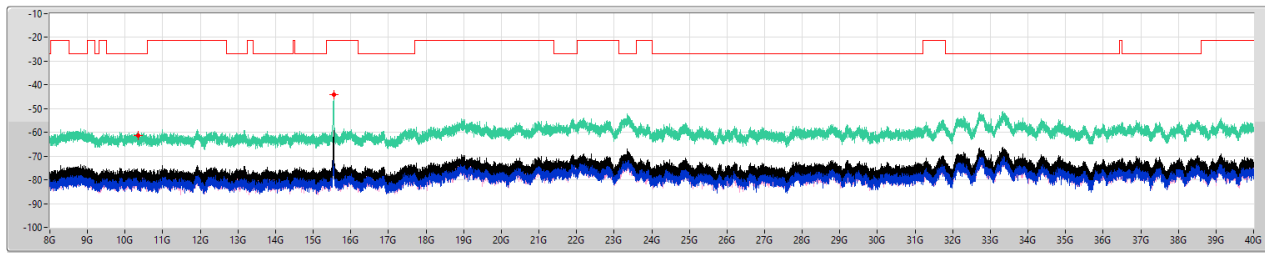
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

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

CSE [PK]

5180MHz

06/08/2025



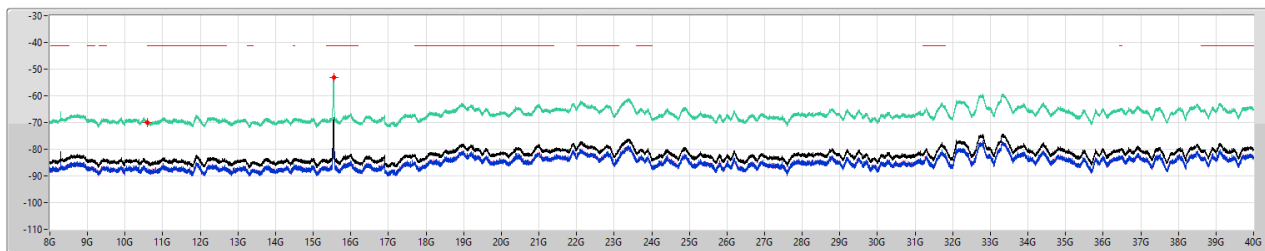
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8G	40G	1M	PK	10.344G	-61.48	-27.00	-34.48	15.06	0.00	-76.54	-81.67	-78.13
8G	40G	1M	PK	15.542G	-44.21	-21.20	-23.01	15.06	0.00	-59.27	-66.36	-60.22

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

CSE [AV]

5180MHz

06/08/2025



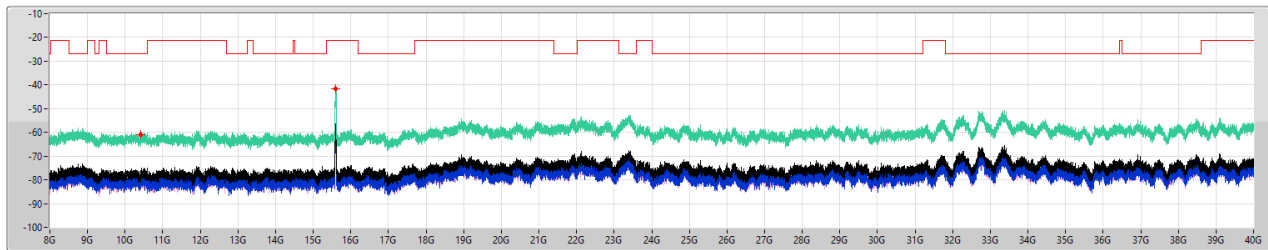
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8G	40G	1M	AV	10.6G	-69.94	-41.20	-28.74	15.06	0.00	-85.00	-87.70	-88.34
8G	40G	1M	AV	15.543G	-53.15	-41.20	-11.95	15.06	0.00	-68.21	-72.68	-70.13

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

CSE [PK]

5200MHz

06/08/2025



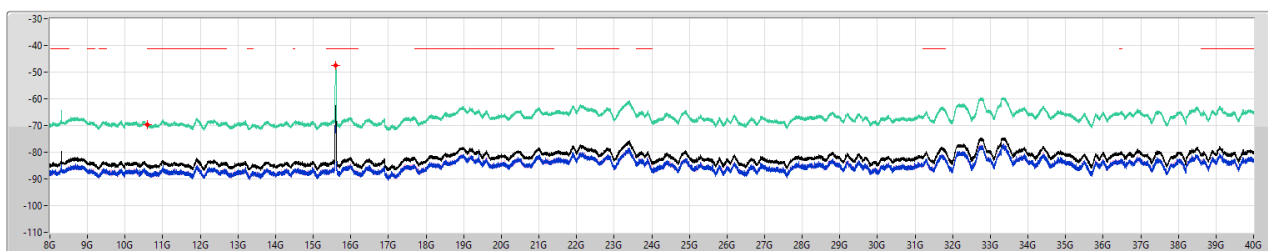
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8G	40G	1M	PK	10.414G	-60.90	-27.00	-33.90	15.06	0.00	-75.96	-77.92	-80.37
8G	40G	1M	PK	15.599G	-41.50	-21.20	-20.30	15.06	0.00	-56.56	-63.42	-57.56

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

CSE [AV]

5200MHz

06/08/2025



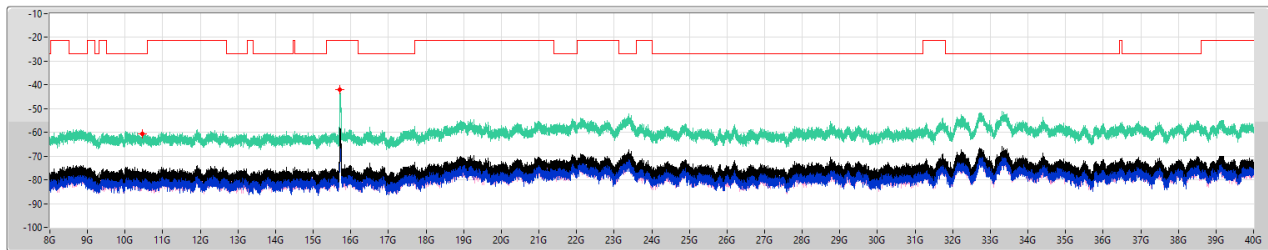
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8G	40G	1M	AV	10.6G	-69.75	-41.20	-28.55	15.06	0.00	-84.81	-87.94	-87.71
8G	40G	1M	AV	15.599G	-47.35	-41.20	-6.15	15.06	0.00	-62.41	-65.62	-65.22

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

CSE [PK]

5240MHz

06/08/2025



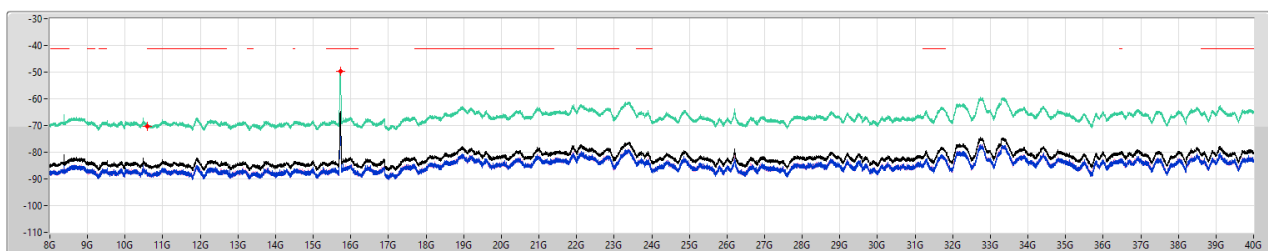
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8G	40G	1M	PK	10.469G	-60.50	-27.00	-33.50	15.06	0.00	-75.56	-81.34	-76.89
8G	40G	1M	PK	15.708G	-41.97	-21.20	-20.77	15.06	0.00	-57.03	-58.30	-62.98

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

CSE [AV]

5240MHz

06/08/2025



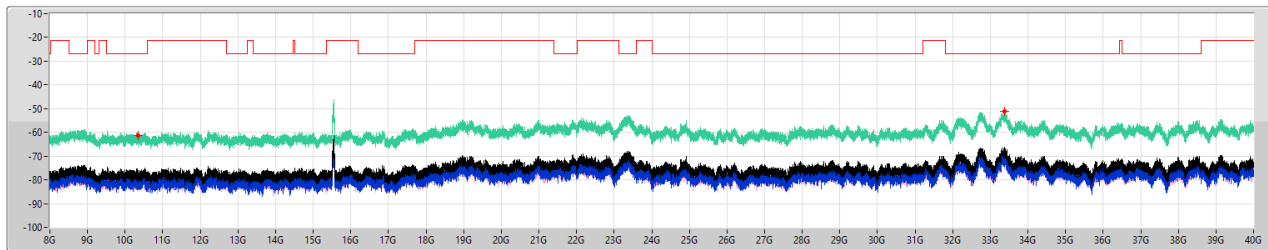
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8G	40G	1M	AV	10.6G	-70.27	-41.20	-29.07	15.06	0.00	-85.33	-88.43	-88.25
8G	40G	1M	AV	15.718G	-49.71	-41.20	-8.51	15.06	0.00	-64.77	-67.95	-67.61

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

CSE [PK]

5180MHz

06/08/2025



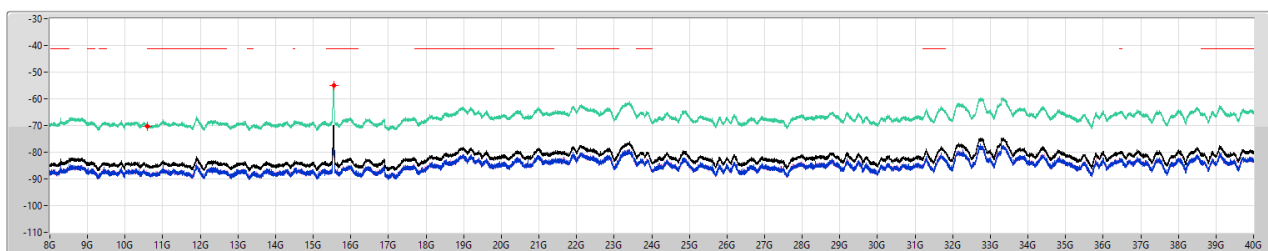
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8G	40G	1M	PK	10.355G	-61.44	-27.00	-34.44	15.06	0.00	-76.50	-78.09	-81.63
8G	40G	1M	PK	33.384G	-51.07	-27.00	-24.07	15.06	0.00	-66.13	-68.36	-70.10

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

CSE [AV]

5180MHz

06/08/2025



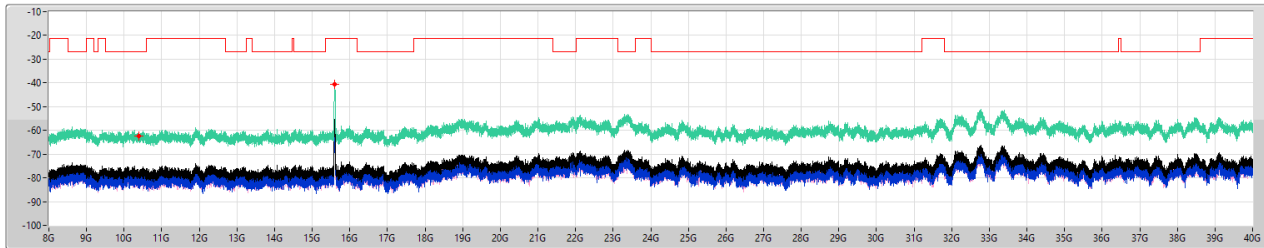
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8G	40G	1M	AV	10.6G	-70.29	-41.20	-29.09	15.06	0.00	-85.35	-88.15	-88.59
8G	40G	1M	AV	15.542G	-54.99	-41.20	-13.79	15.06	0.00	-70.05	-74.34	-72.08

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

CSE [PK]

5200MHz

06/08/2025



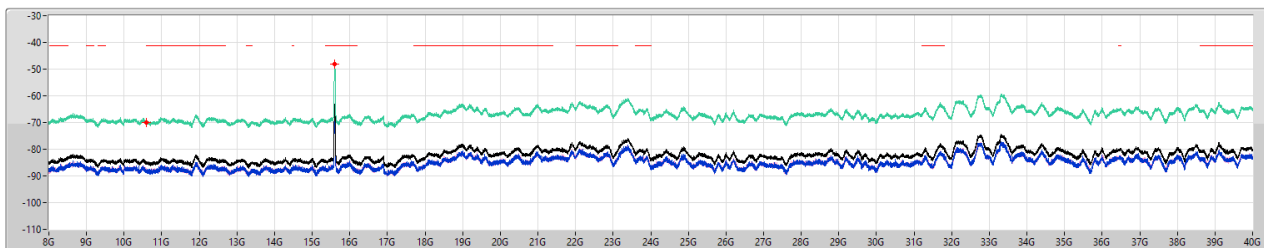
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	40G	1M	PK	10.391G	-62.29	-27.00	-35.29	15.06	0.00	-77.35	-80.77	-79.98
8G	40G	1M	PK	15.597G	-40.45	-21.20	-19.25	15.06	0.00	-55.51	-58.99	-58.10

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

CSE [AV]

5200MHz

06/08/2025



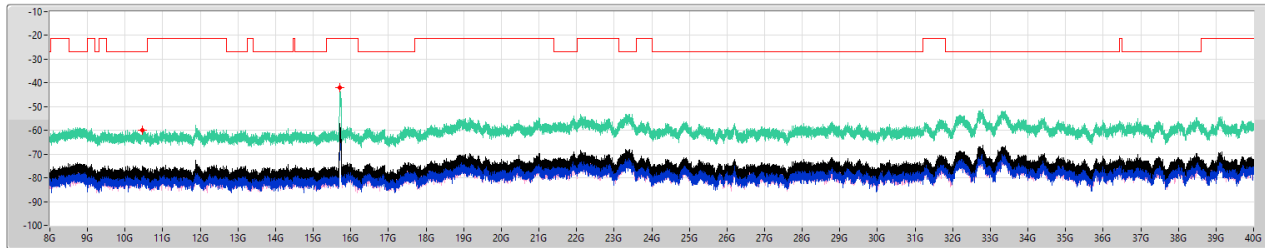
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8G	40G	1M	AV	10.6G	-70.14	-41.20	-28.94	15.06	0.00	-85.20	-87.95	-88.49
8G	40G	1M	AV	15.601G	-48.03	-41.20	-6.83	15.06	0.00	-63.09	-66.43	-65.80

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

CSE [PK]

5240MHz

06/08/2025



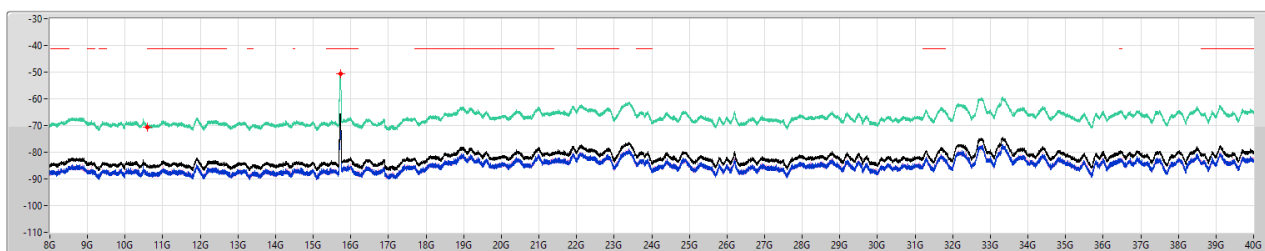
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	40G	1M	PK	10.468G	-60.06	-27.00	-33.06	15.06	0.00	-75.12	-77.43	-78.96
8G	40G	1M	PK	15.714G	-42.14	-21.20	-20.94	15.06	0.00	-57.20	-59.52	-61.04

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

CSE [AV]

5240MHz

06/08/2025



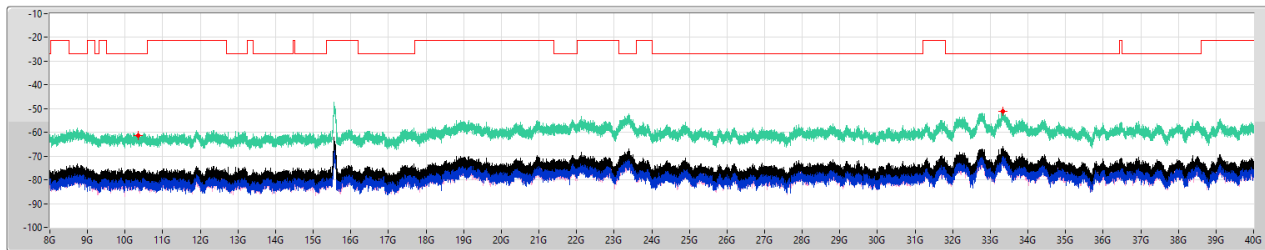
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8G	40G	1M	AV	10.6G	-70.52	-41.20	-29.32	15.06	0.00	-85.58	-88.83	-88.36
8G	40G	1M	AV	15.72G	-50.56	-41.20	-9.36	15.06	0.00	-65.62	-68.57	-68.69

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

CSE [PK]

5190MHz

06/08/2025



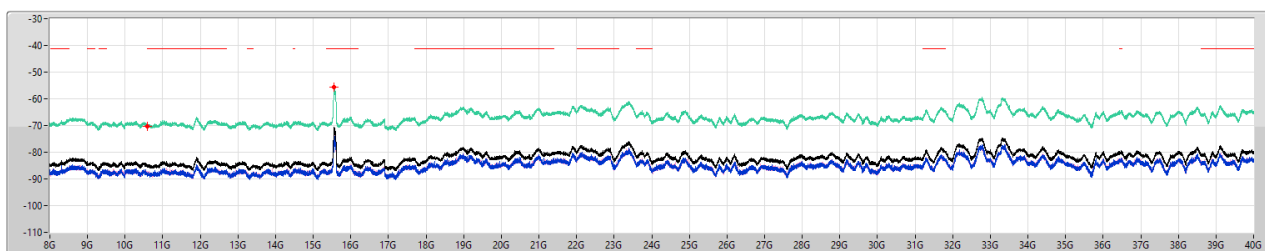
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	40G	1M	PK	10.352G	-61.37	-27.00	-34.37	15.06	0.00	-76.43	-79.55	-79.34
8G	40G	1M	PK	33.325G	-50.96	-27.00	-23.96	15.06	0.00	-66.02	-70.29	-68.05

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

CSE [AV]

5190MHz

06/08/2025



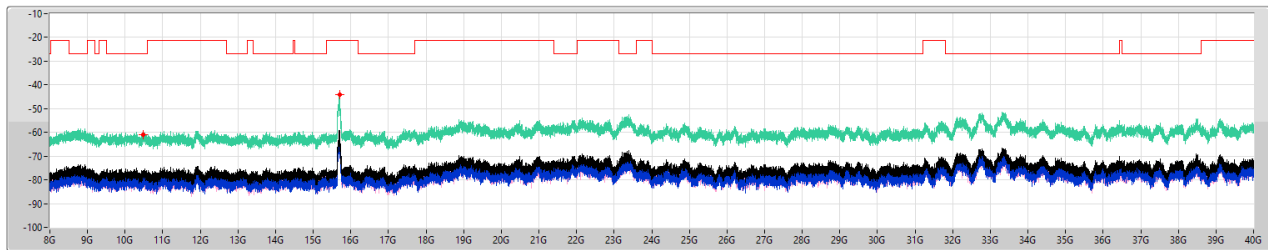
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	40G	1M	AV	10.6G	-70.33	-41.20	-29.13	15.06	0.00	-85.39	-88.62	-88.20
8G	40G	1M	AV	15.557G	-55.57	-41.20	-14.37	15.06	0.00	-70.63	-74.11	-73.21

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

CSE [PK]

5230MHz

06/08/2025



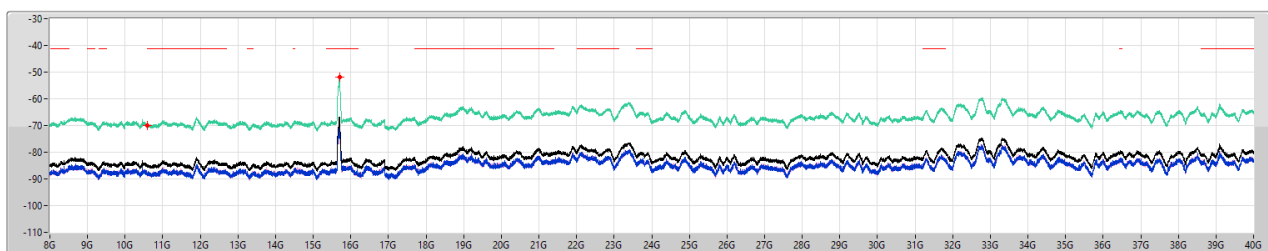
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	40G	1M	PK	10.485G	-61.00	-27.00	-34.00	15.06	0.00	-76.06	-79.03	-79.11
8G	40G	1M	PK	15.7G	-44.08	-21.20	-22.88	15.06	0.00	-59.14	-61.85	-62.48

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

CSE [AV]

5230MHz

06/08/2025



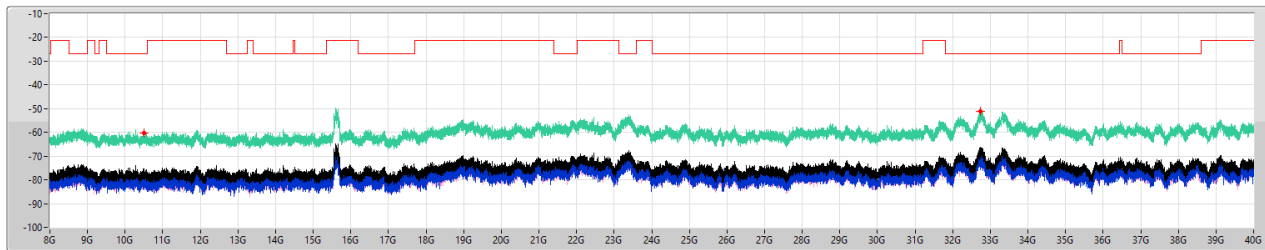
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8G	40G	1M	AV	10.6G	-70.10	-41.20	-28.90	15.06	0.00	-85.16	-88.39	-87.96
8G	40G	1M	AV	15.699G	-51.87	-41.20	-10.67	15.06	0.00	-66.93	-70.30	-69.60

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

CSE [PK]

5210MHz

06/08/2025



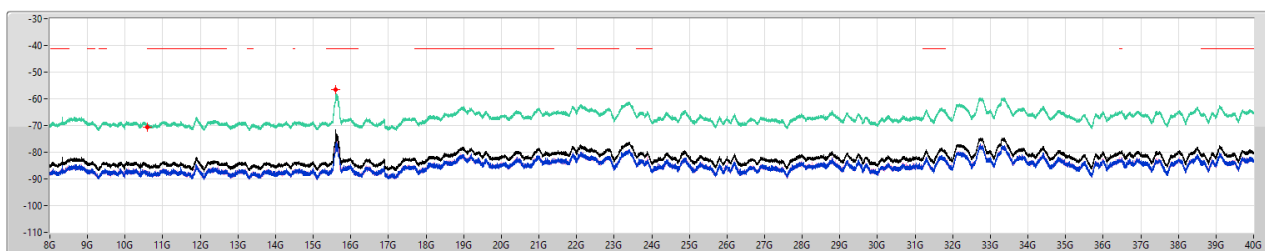
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8G	40G	1M	PK	10.492G	-60.30	-27.00	-33.30	15.06	0.00	-75.36	-78.85	-77.94
8G	40G	1M	PK	32.74G	-51.17	-27.00	-24.17	15.06	0.00	-66.23	-68.52	-70.10

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

CSE [AV]

5210MHz

06/08/2025



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
8G	40G	1M	AV	10.6G	-70.58	-41.20	-29.38	15.06	0.00	-85.64	-88.94	-88.38
8G	40G	1M	AV	15.598G	-56.57	-41.20	-15.37	15.06	0.00	-71.63	-76.89	-73.16

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	Pass	5.11G	5.39G	AV	5.14052G	15.06	-62.22	-58.06	-56.65	-41.59	-41.20	-0.39
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	5.11G	5.39G	AV	5.1499G	15.06	-59.89	-59.09	-56.46	-41.40	-41.20	-0.20
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	5.07G	5.43G	AV	5.13588G	15.06	-59.99	-58.87	-56.38	-41.32	-41.20	-0.12
802.11ax HEW80_Nss1,(MCS0)_2TX	Pass	4.99G	5.51G	AV	5.14756G	15.06	-59.55	-60.03	-56.77	-41.71	-41.20	-0.51

DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

Result

Mode	Result	F-Start (Hz)	F-Stop (Hz)	Type	Freq (Hz)	DG (dBi)	P1 (dBm)	P2 (dBm)	Psum (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
802.11a_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.11G	5.39G	AV	5.1499G	15.06	-60.51	-59.05	-56.71	-41.65	-41.20	-0.45
5180MHz	Pass	5.11G	5.39G	AV	5.36634G	15.06	-61.40	-61.08	-58.23	-43.17	-41.20	-1.97
5180MHz	Pass	5.11G	5.39G	PK	5.14976G	15.06	-49.03	-46.11	-44.32	-29.26	-21.20	-8.06
5180MHz	Pass	5.11G	5.39G	PK	5.35808G	15.06	-49.02	-49.65	-46.31	-31.25	-21.20	-10.05
5200MHz	Pass	5.11G	5.39G	AV	5.14976G	15.06	-59.93	-59.49	-56.69	-41.63	-41.20	-0.43
5200MHz	Pass	5.11G	5.39G	AV	5.35178G	15.06	-61.18	-61.13	-58.14	-43.08	-41.20	-1.88
5200MHz	Pass	5.11G	5.39G	PK	5.14682G	15.06	-48.79	-45.66	-43.94	-28.88	-21.20	-7.68
5200MHz	Pass	5.11G	5.39G	PK	5.35514G	15.06	-49.36	-48.57	-45.94	-30.88	-21.20	-9.68
5240MHz	Pass	5.11G	5.39G	AV	5.14052G	15.06	-62.22	-58.06	-56.65	-41.59	-41.20	-0.39
5240MHz	Pass	5.11G	5.39G	AV	5.35108G	15.06	-61.11	-61.50	-58.29	-43.23	-41.20	-2.03
5240MHz	Pass	5.11G	5.39G	PK	5.14192G	15.06	-50.97	-45.54	-44.45	-29.39	-21.20	-8.19
5240MHz	Pass	5.11G	5.39G	PK	5.35164G	15.06	-48.91	-48.27	-45.57	-30.51	-21.20	-9.31
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	5.11G	5.39G	AV	5.1499G	15.06	-59.89	-59.09	-56.46	-41.40	-41.20	-0.20
5180MHz	Pass	5.11G	5.39G	AV	5.36844G	15.06	-61.45	-61.20	-58.31	-43.25	-41.20	-2.05
5180MHz	Pass	5.11G	5.39G	PK	5.1499G	15.06	-46.71	-47.65	-44.14	-29.08	-21.20	-7.88
5180MHz	Pass	5.11G	5.39G	PK	5.36816G	15.06	-50.90	-47.13	-45.61	-30.55	-21.20	-9.35
5200MHz	Pass	5.11G	5.39G	AV	5.14878G	15.06	-60.39	-59.29	-56.79	-41.73	-41.20	-0.53
5200MHz	Pass	5.11G	5.39G	AV	5.3501G	15.06	-61.33	-61.11	-58.21	-43.15	-41.20	-1.95
5200MHz	Pass	5.11G	5.39G	PK	5.1478G	15.06	-48.32	-46.59	-44.36	-29.30	-21.20	-8.10
5200MHz	Pass	5.11G	5.39G	PK	5.35192G	15.06	-49.30	-49.01	-46.14	-31.08	-21.20	-9.88
5240MHz	Pass	5.11G	5.39G	AV	5.13576G	15.06	-61.12	-58.61	-56.68	-41.62	-41.20	-0.42
5240MHz	Pass	5.11G	5.39G	AV	5.3781G	15.06	-61.31	-61.46	-58.37	-43.31	-41.20	-2.11
5240MHz	Pass	5.11G	5.39G	PK	5.14948G	15.06	-50.12	-46.19	-44.71	-29.65	-21.20	-8.45
5240MHz	Pass	5.11G	5.39G	PK	5.3802G	15.06	-48.80	-48.74	-45.76	-30.70	-21.20	-9.50
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	5.07G	5.43G	AV	5.14938G	15.06	-61.66	-59.01	-57.13	-42.07	-41.20	-0.87
5190MHz	Pass	5.07G	5.43G	AV	5.36988G	15.06	-61.56	-61.42	-58.48	-43.42	-41.20	-2.22
5190MHz	Pass	5.07G	5.43G	PK	5.14164G	15.06	-49.76	-45.91	-44.41	-29.35	-21.20	-8.15
5190MHz	Pass	5.07G	5.43G	PK	5.4021G	15.06	-49.19	-49.03	-46.10	-31.04	-21.20	-9.84
5230MHz	Pass	5.07G	5.43G	AV	5.13588G	15.06	-59.99	-58.87	-56.38	-41.32	-41.20	-0.12
5230MHz	Pass	5.07G	5.43G	AV	5.35026G	15.06	-60.95	-60.98	-57.95	-42.89	-41.20	-1.69
5230MHz	Pass	5.07G	5.43G	PK	5.13588G	15.06	-48.34	-46.85	-44.52	-29.46	-21.20	-8.26
5230MHz	Pass	5.07G	5.43G	PK	5.40048G	15.06	-49.07	-48.19	-45.60	-30.54	-21.20	-9.34
802.11ax HEW80_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.99G	5.51G	AV	5.14756G	15.06	-59.55	-60.03	-56.77	-41.71	-41.20	-0.51
5210MHz	Pass	4.99G	5.51G	AV	5.3527G	15.06	-61.36	-61.42	-58.38	-43.32	-41.20	-2.12
5210MHz	Pass	4.99G	5.51G	PK	5.14938G	15.06	-43.44	-49.20	-42.42	-27.36	-21.20	-6.16
5210MHz	Pass	4.99G	5.51G	PK	5.45748G	15.06	-48.60	-49.40	-45.97	-30.91	-21.20	-9.71
5210MHz	Pass	4.99G	5.51G	PK	5.46632G	15.06	-48.87	-49.02	-45.93	-30.87	-27.00	-3.87

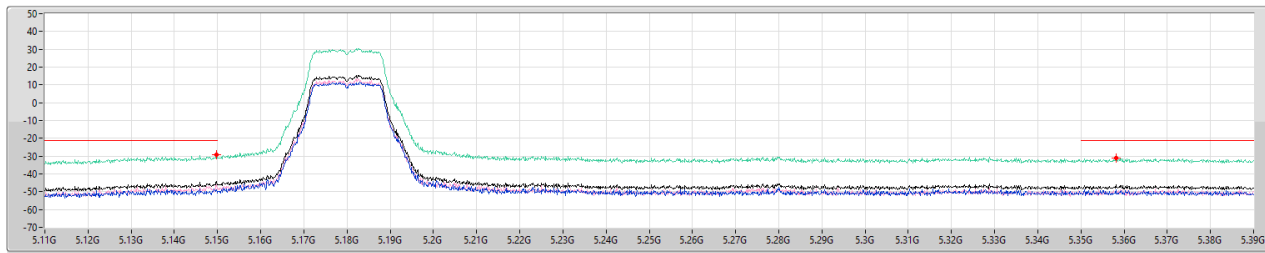
DG = Directional Gain ; PX=Port X; Psum=P1+P2+...PX

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

CSE Bandedge [PK]

5180MHz

06/08/2025



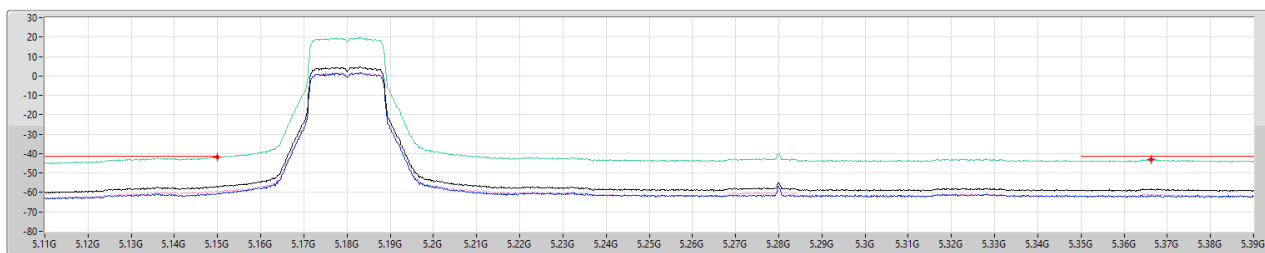
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5.11G	5.39G	1M	PK	5.14976G	-29.26	-21.20	-8.06	15.06	0.00	-44.32	-49.03	-46.11
5.11G	5.39G	1M	PK	5.35808G	-31.25	-21.20	-10.05	15.06	0.00	-46.31	-49.02	-49.65

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

CSE Bandedge [AV]

5180MHz

06/08/2025



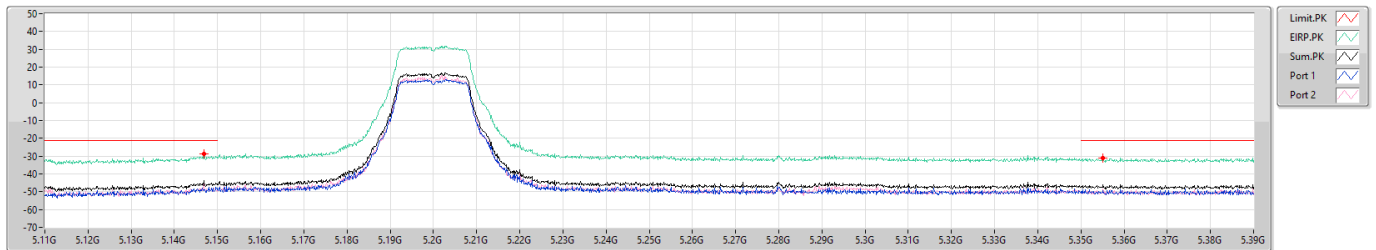
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5.11G	5.39G	1M	AV	5.1499G	-41.65	-41.20	-0.45	15.06	0.00	-56.71	-60.51	-59.05
5.11G	5.39G	1M	AV	5.36634G	-43.17	-41.20	-1.97	15.06	0.00	-58.23	-61.40	-61.08

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

CSE Bandedge [PK]

5200MHz

06/08/2025



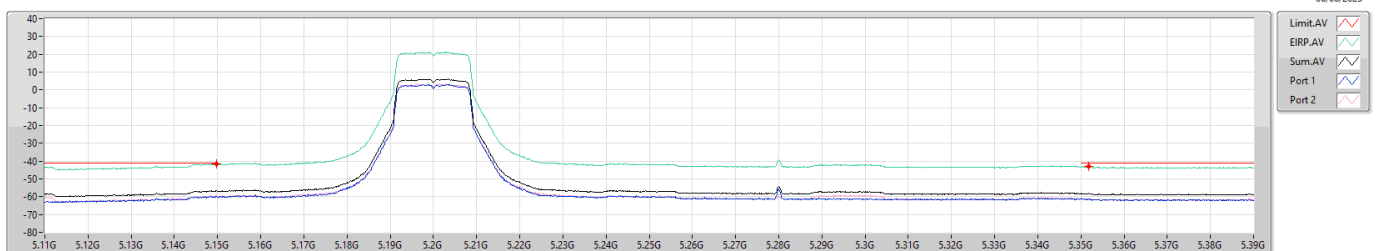
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5.11G	5.39G	1M	PK	5.14682G	-28.88	-21.20	-7.68	15.06	0.00	-43.94	-48.79	-45.66
5.11G	5.39G	1M	PK	5.35514G	-30.88	-21.20	-9.68	15.06	0.00	-45.94	-49.36	-48.57

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

CSE Bandedge [AV]

5200MHz

06/08/2025



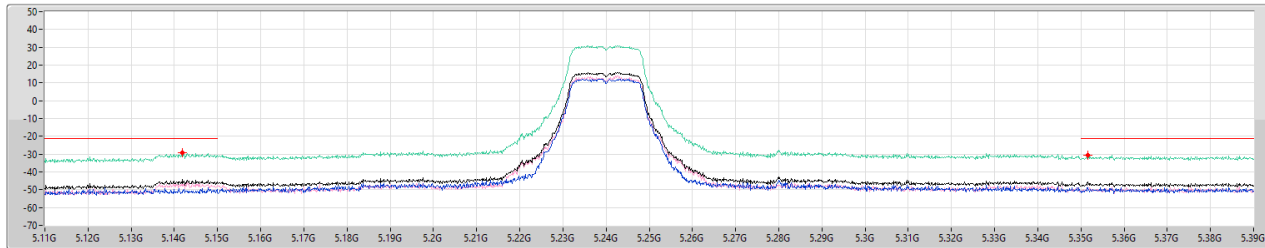
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5.11G	5.39G	1M	AV	5.14976G	-41.63	-41.20	-0.43	15.06	0.00	-56.69	-59.93	-59.49
5.11G	5.39G	1M	AV	5.35178G	-43.08	-41.20	-1.88	15.06	0.00	-58.14	-61.18	-61.13

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

CSE Bandedge [PK]

5240MHz

06/08/2025



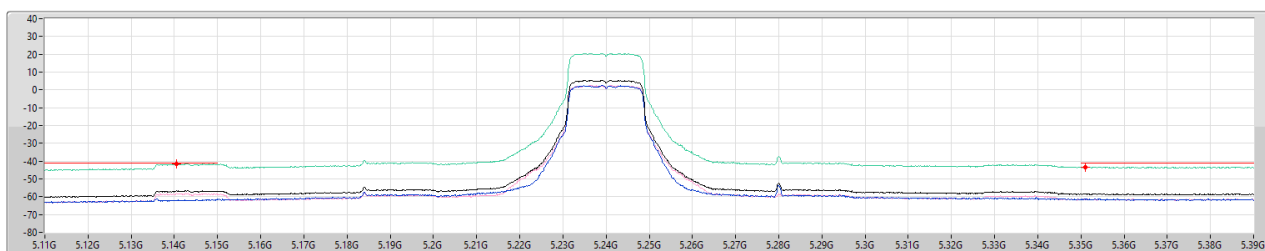
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5.11G	5.39G	1M	PK	5.14192G	-29.39	-21.20	-8.19	15.06	0.00	-44.45	-50.97	-45.54
5.11G	5.39G	1M	PK	5.35164G	-30.51	-21.20	-9.31	15.06	0.00	-45.57	-48.91	-48.27

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

CSE Bandedge [AV]

5240MHz

06/08/2025



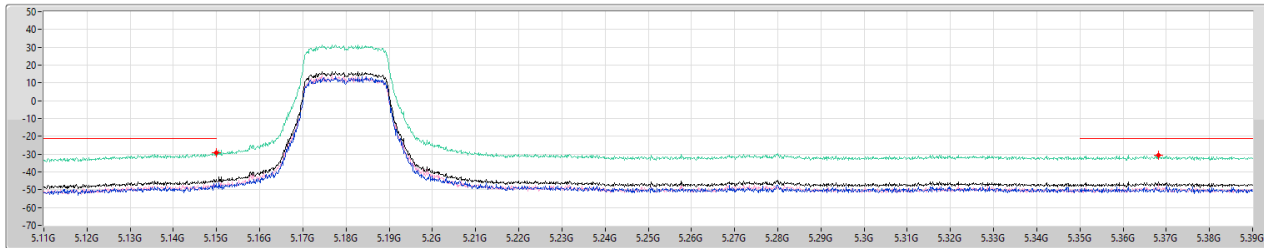
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5.11G	5.39G	1M	AV	5.14052G	-41.59	-41.20	-0.39	15.06	0.00	-56.65	-62.22	-58.06
5.11G	5.39G	1M	AV	5.35108G	-43.23	-41.20	-2.03	15.06	0.00	-58.29	-61.11	-61.50

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

CSE Bandedge [PK]

5180MHz

06/08/2025



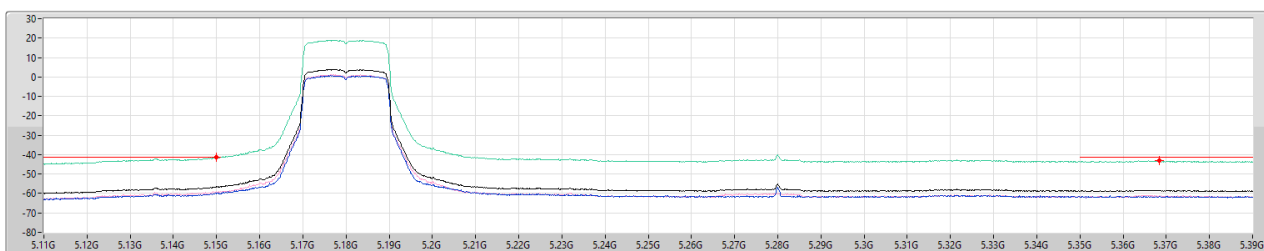
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5.11G	5.39G	1M	PK	5.1499G	-29.08	-21.20	-7.88	15.06	0.00	-44.14	-46.71	-47.65
5.11G	5.39G	1M	PK	5.36816G	-30.55	-21.20	-9.35	15.06	0.00	-45.61	-50.90	-47.13

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

CSE Bandedge [AV]

5180MHz

06/08/2025



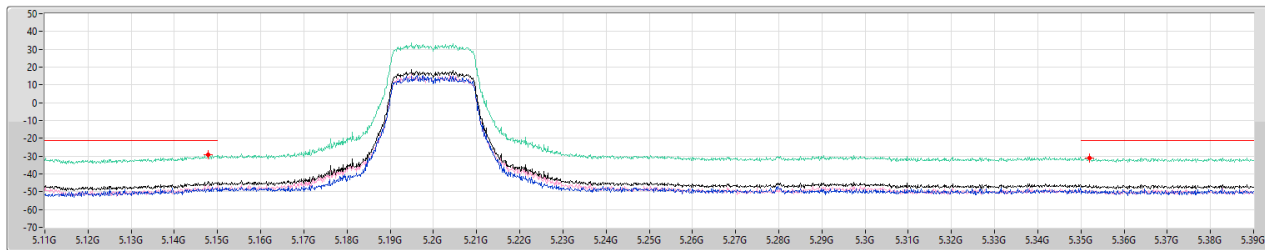
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5.11G	5.39G	1M	AV	5.1499G	-41.40	-41.20	-0.20	15.06	0.00	-56.46	-59.89	-59.09
5.11G	5.39G	1M	AV	5.36844G	-43.25	-41.20	-2.05	15.06	0.00	-58.31	-61.45	-61.20

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

CSE Bandedge [PK]

5200MHz

06/08/2025



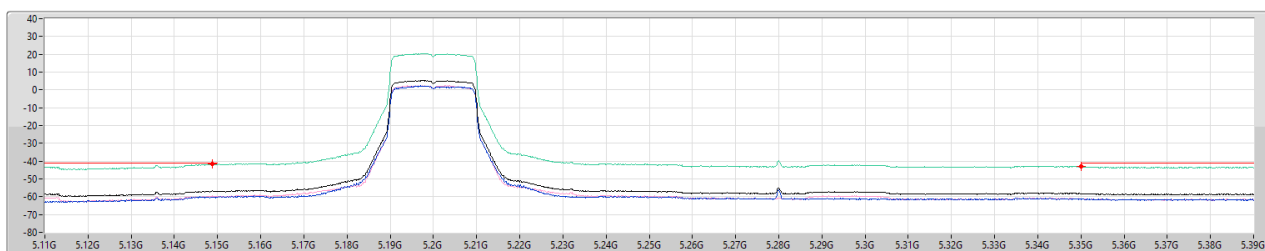
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5.11G	5.39G	1M	PK	5.1478G	-29.30	-21.20	-8.10	15.06	0.00	-44.36	-48.32	-46.59
5.11G	5.39G	1M	PK	5.35192G	-31.08	-21.20	-9.88	15.06	0.00	-46.14	-49.30	-49.01

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

CSE Bandedge [AV]

5200MHz

06/08/2025



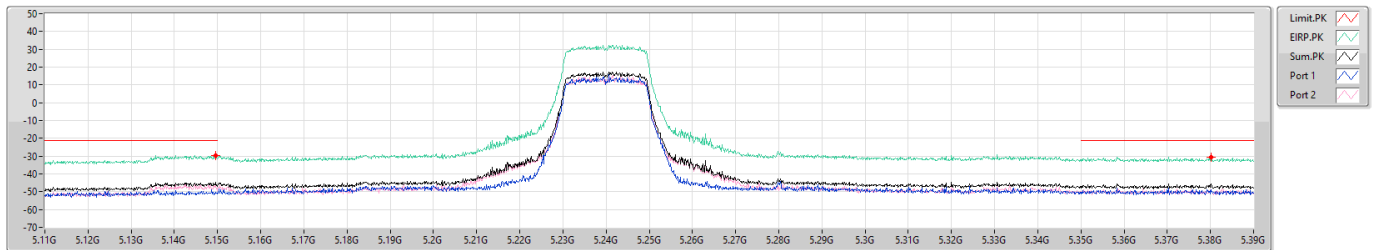
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5.11G	5.39G	1M	AV	5.14878G	-41.73	-41.20	-0.53	15.06	0.00	-56.79	-60.39	-59.29
5.11G	5.39G	1M	AV	5.3501G	-43.15	-41.20	-1.95	15.06	0.00	-58.21	-61.33	-61.11

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

CSE Bandedge [PK]

5240MHz

06/08/2025

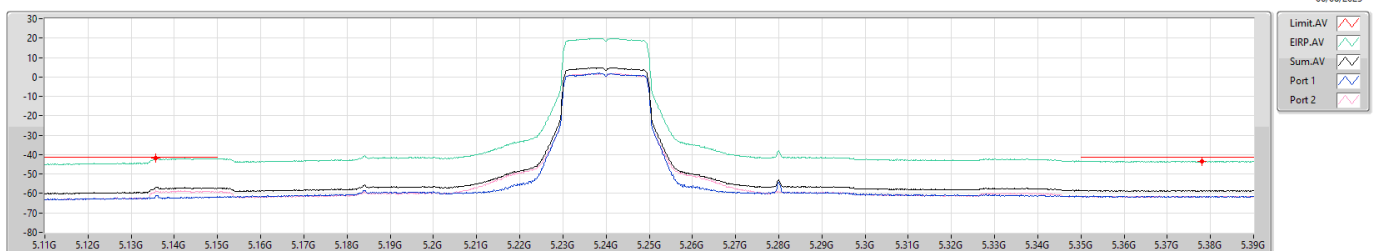


5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

CSE Bandedge [AV]

5240MHz

06/08/2025

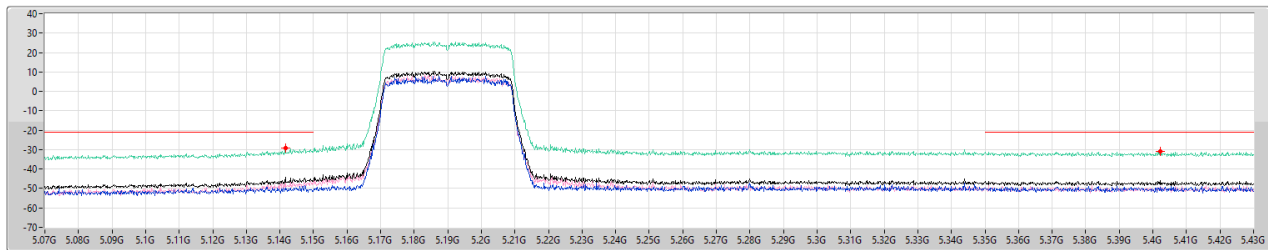


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

CSE Bandedge [PK]

5190MHz

06/08/2025

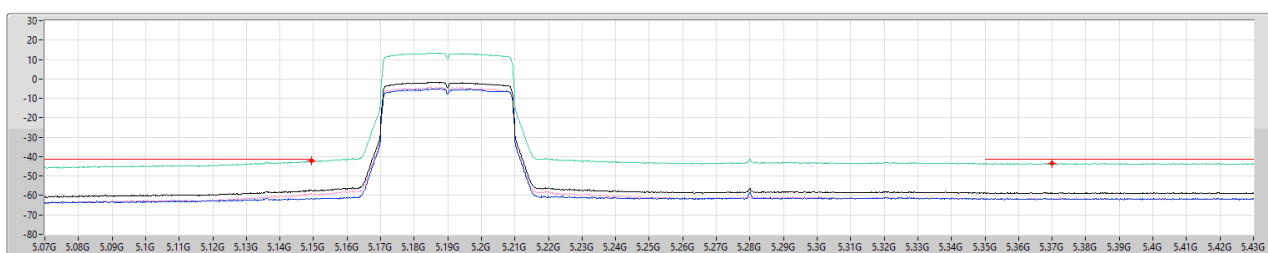


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

CSE Bandedge [AV]

5190MHz

06/08/2025

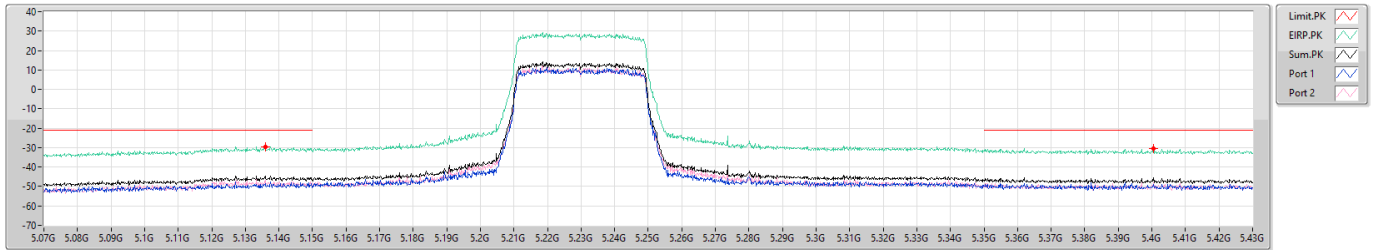


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

CSE Bandedge [PK]

5230MHz

06/08/2025

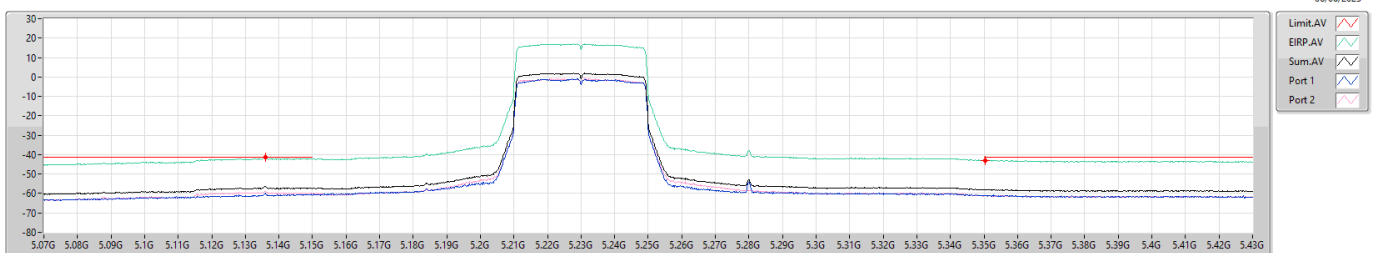


5.15-5.25GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

CSE Bandedge [AV]

5230MHz

06/08/2025

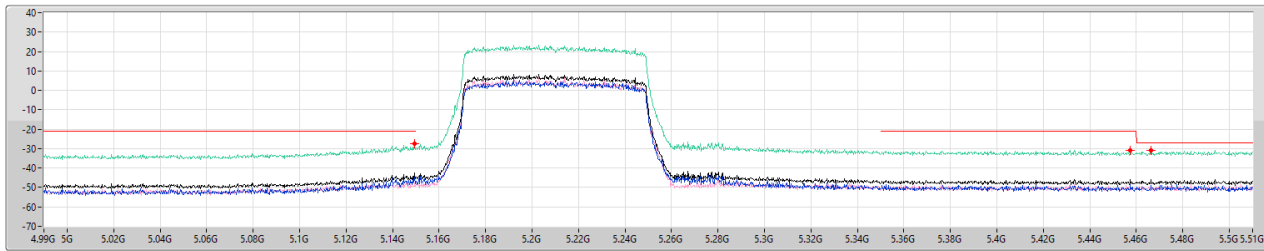


5.15-5.25GHz_802.11ax HEW80_Nss1,(MCS0)_2TX

CSE Bandedge [PK]

5210MHz

06/08/2025



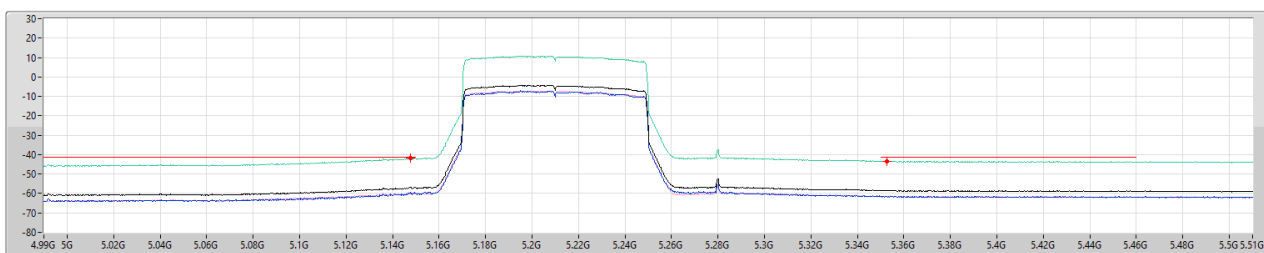
F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.99G	5.51G	1M	PK	5.14938G	-27.36	-21.20	-6.16	15.06	0.00	-42.42	-43.44	-49.20
4.99G	5.51G	1M	PK	5.45748G	-30.91	-21.20	-9.71	15.06	0.00	-45.97	-48.60	-49.40
4.99G	5.51G	1M	PK	5.46632G	-30.87	-27.00	-3.87	15.06	0.00	-45.93	-48.87	-49.02

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

CSE Bandedge [AV]

5210MHz

06/08/2025



F-Start(Hz)	F-Stop(Hz)	RBW(Hz)	Type	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Margin(dB)	DG(dB)	Ref(dB)	Psum(dBm)	P1(dBm)	P2(dBm)
4.99G	5.51G	1M	AV	5.14756G	-41.71	-41.20	-0.51	15.06	0.00	-56.77	-59.55	-60.03
4.99G	5.51G	1M	AV	5.3527G	-43.32	-41.20	-2.12	15.06	0.00	-58.38	-61.36	-61.42

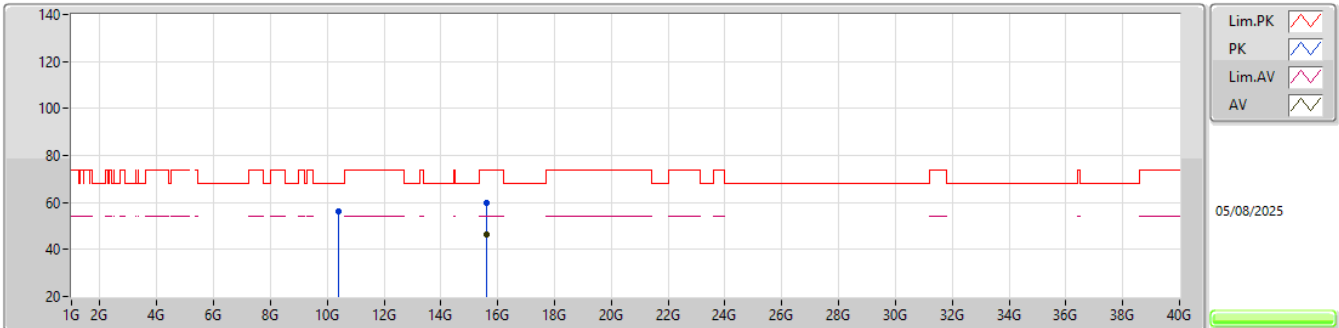


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1.(6Mbps)_2TX	Pass	AV	15.59862G	46.61	54.00	-7.39	3	Vertical	61	1.20	-

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

5200MHz_TX

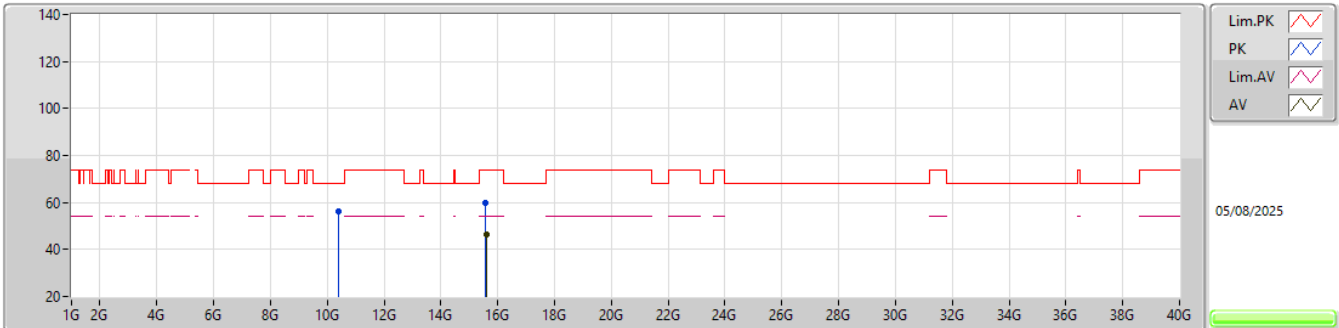


EUT_V_2TX
Setting 18
01-U-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.41167G	56.42	68.20	-11.78	39.45	3	Vertical	131	2.41	-	38.72	10.74	32.49			
PK	15.59547G	59.75	74.00	-14.25	40.46	3	Vertical	61	1.20	-	38.42	13.61	32.74			
AV	15.59862G	46.61	54.00	-7.39	27.33	3	Vertical	61	1.20	-	38.41	13.61	32.74			

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

5200MHz_TX



EUT V_2TX
Setting 18
01-U-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	10.38962G	56.29	68.20	-11.91	39.36	3	Horizontal	218	1.80	-	38.72	10.72	32.51			
PK	15.585G	59.60	74.00	-14.40	40.26	3	Horizontal	195	2.25	-	38.46	13.61	32.73			
AV	15.60975G	46.45	54.00	-7.55	27.24	3	Horizontal	195	2.25	-	38.34	13.61	32.74			