

FCC Radio Test Report

FCC ID : WS2-WG7A5101
Equipment : WIFI Module
Brand Name : Jorjin
Model Name : WG7A51-01
Applicant : JORJIN TECHNOLOGIES INC.
17F-1, No.239, Sec. 1, Datong Rd., Xizhi
Dist., New Taipei City 22161, Taiwan, R.O.C.
Manufacturer : JORJIN TECHNOLOGIES INC.
17F-1, No.239, Sec. 1, Datong Rd., Xizhi
Dist., New Taipei City 22161, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.407

The product was received on Jan. 22, 2025, and testing was started from Mar. 11, 2025 and completed on Apr. 23, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Only Employ DC Power Supply
3.1	15.407(a)	Emission Bandwidth	PASS	-
3.2	15.407(a)	Maximum Conducted Output Power	PASS	-
3.3	15.407(a)	Peak Power Spectral Density	PASS	-
3.4	15.407(b)	Unwanted Emissions	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

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), ax (HEW20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [8]
5725-5850		5745-5825	149-165 [5]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.25-5.35GHz	802.11a	20	1TX
5.47-5.725GHz	802.11a	20	1TX
5.725-5.85GHz	802.11a	20	1TX
5.15-5.25GHz	802.11ax HEW20	20	1TX
5.25-5.35GHz	802.11ax HEW20	20	1TX
5.47-5.725GHz	802.11ax HEW20	20	1TX
5.725-5.85GHz	802.11ax HEW20	20	1TX

Note:

- ♦ 11a, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Evaluated HEW20 mode only due to the similar modulation. The power setting of HT20 mode are the same or lower than HEW20.

**1.1.2 Antenna Information**

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	Unictron Technologies Corporation	AA077U	Chip Ant	Reverse SMA	2.4G+5G+BT

Ant.	Port	Gain (dBi)		
		2.4G	5G	Bluetooth
1	1	1.4	2.3	1.4

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax mode (1TX/1RX)

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

For 5GHz function:

For IEEE 802.11 a/n/ax mode (1TX/1RX)

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

For BT function:

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

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Test Fixture		
EUT Function	☐ Outdoor AP	☐ Indoor AP	
	☐ Fixed P2P AP	☒ Client	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
TPC Function	☐ With TPC Function	☒ Without TPC Function	
Weather Band	☐ With 5600~5650MHz	☒ Without 5600~5650MHz	
Resource Unit	☒ Full RU	☐ Partial RU	
	☐ MRU(static preamble puncturing)	☐ MRU(dynamic preamble puncturing)	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11a_Nss1,(6Mbps)_1TX	0.497	3.04	201.25u	5k
802.11ax HEW20_Nss1,(MCS0)_1TX	0.47	3.28	184.375u	10k

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 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
RF Conducted	TH07-HY	Xun Hsieh	23.5~24.1℃ / 50~53%	23/Apr/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH25-HY	Henry Ho	22.6~23.2℃ / 51~53%	11/Mar/2025~20/Mar/2025

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Emission Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Unwanted Emissions	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	Radio Tool 2.3.0.rt
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Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	21
5200MHz	21
5240MHz	21
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	21
5580MHz	21
5700MHz	19
5745MHz	21
5785MHz	21
5825MHz	21
802.11ax HEW20_Nss1,(MCS0)_1TX	-
5180MHz	19
5200MHz	21
5240MHz	21
5260MHz	21
5300MHz	21
5320MHz	21
5500MHz	21
5580MHz	21
5700MHz	17
5745MHz	21
5785MHz	21
5825MHz	21

2.2 The Worst Case Measurement Configuration

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	Fixture Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

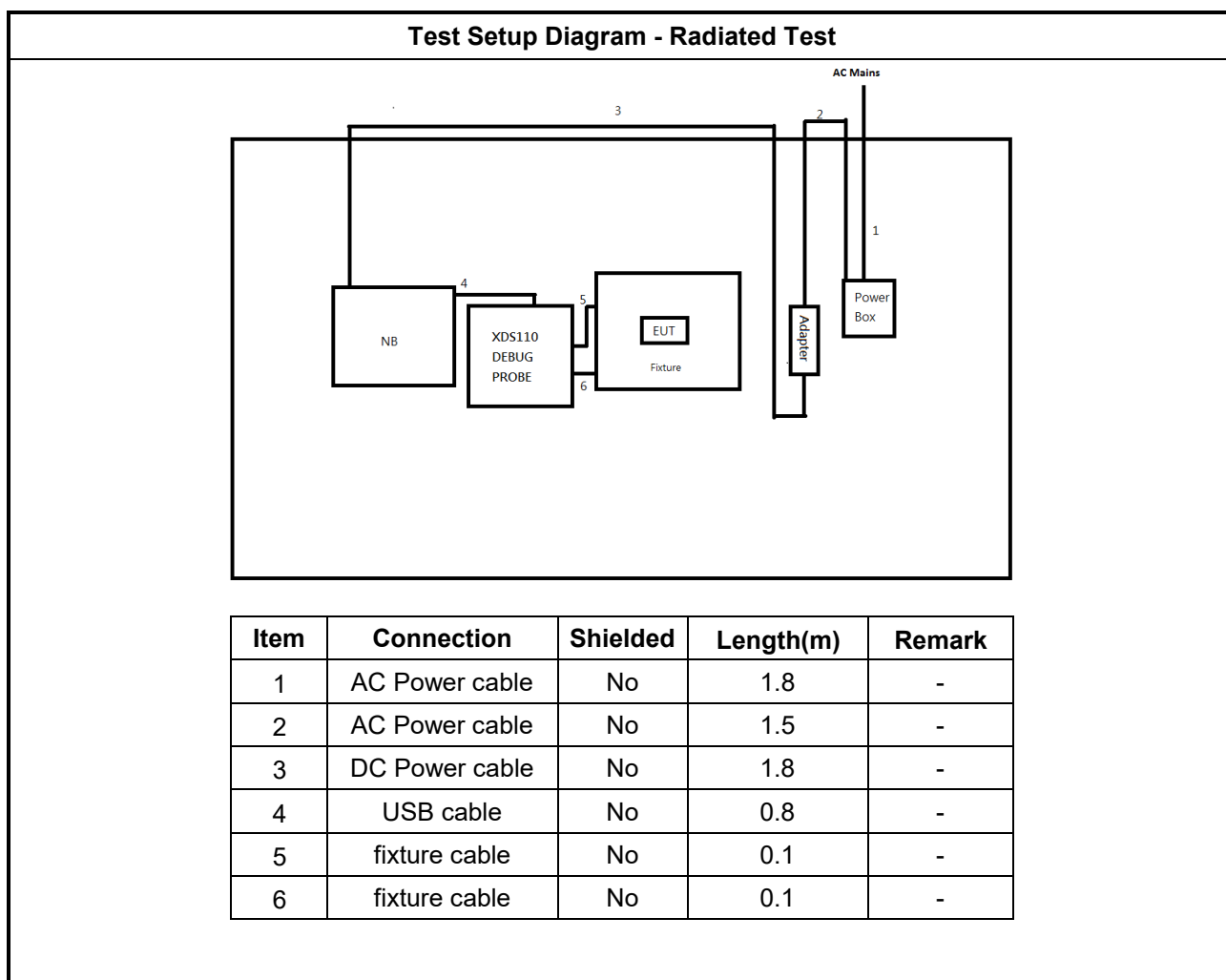


2.3 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Test fixture	Texas Instruments	Sitara AM3358	-	Provided by Customer
4	XDSUO DEBUG PROBE	TEXAS INSTRUMENTS	TMDSEMU110-U	-	Provided by Customer
5	USB Cable	Sporton	USB cable-1	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter for NB	DELL	HA65NM130	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	Notebook	DELL	E5410	-	-
4	Test fixture	Texas Instruments	Sitara AM3358	-	Provided by Customer
5	XDSUO DEBUG PROBE	TEXAS INSTRUMENTS	TMDSEMU110-U	-	Provided by Customer
6	USB Cable	Sporton	USB cable-1	-	-

2.4 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, 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.

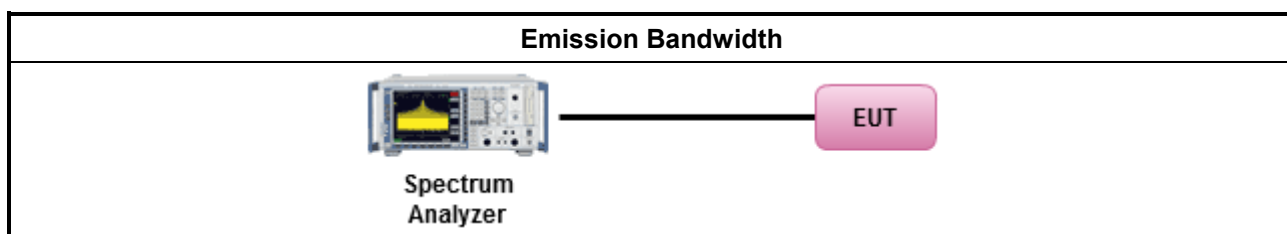
3.1.2 Measuring Instruments

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 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 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.	

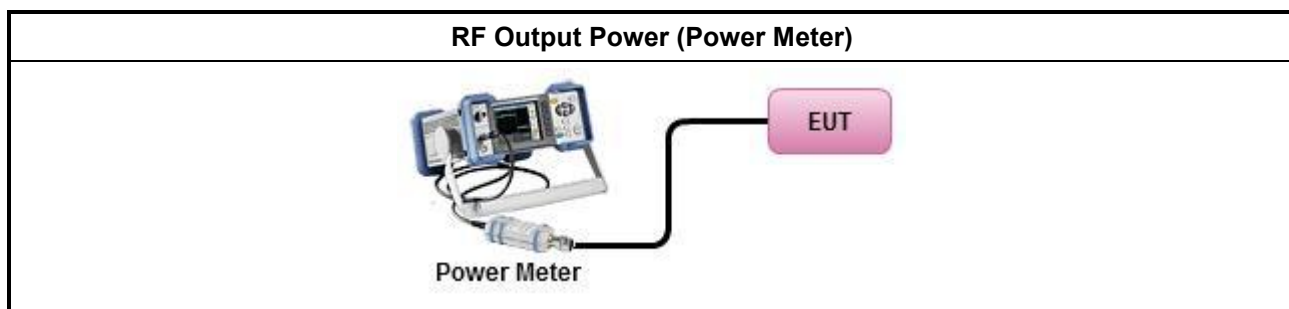
3.2.2 Measuring Instruments

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

3.2.3 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]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 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.	

3.3.2 Measuring Instruments

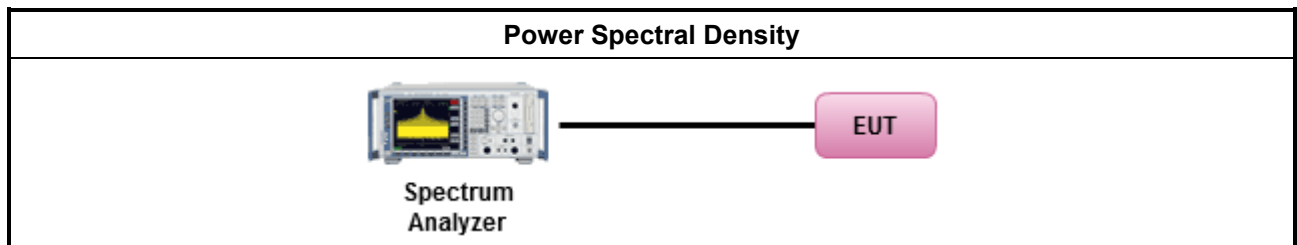
Refer a test equipment and calibration data table in this test report.

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 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 $\geq 98\%$
☐	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)
☐	For conducted measurement.

Test Method	
	- 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]) $EIRP_{total} = PPSD_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 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).

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

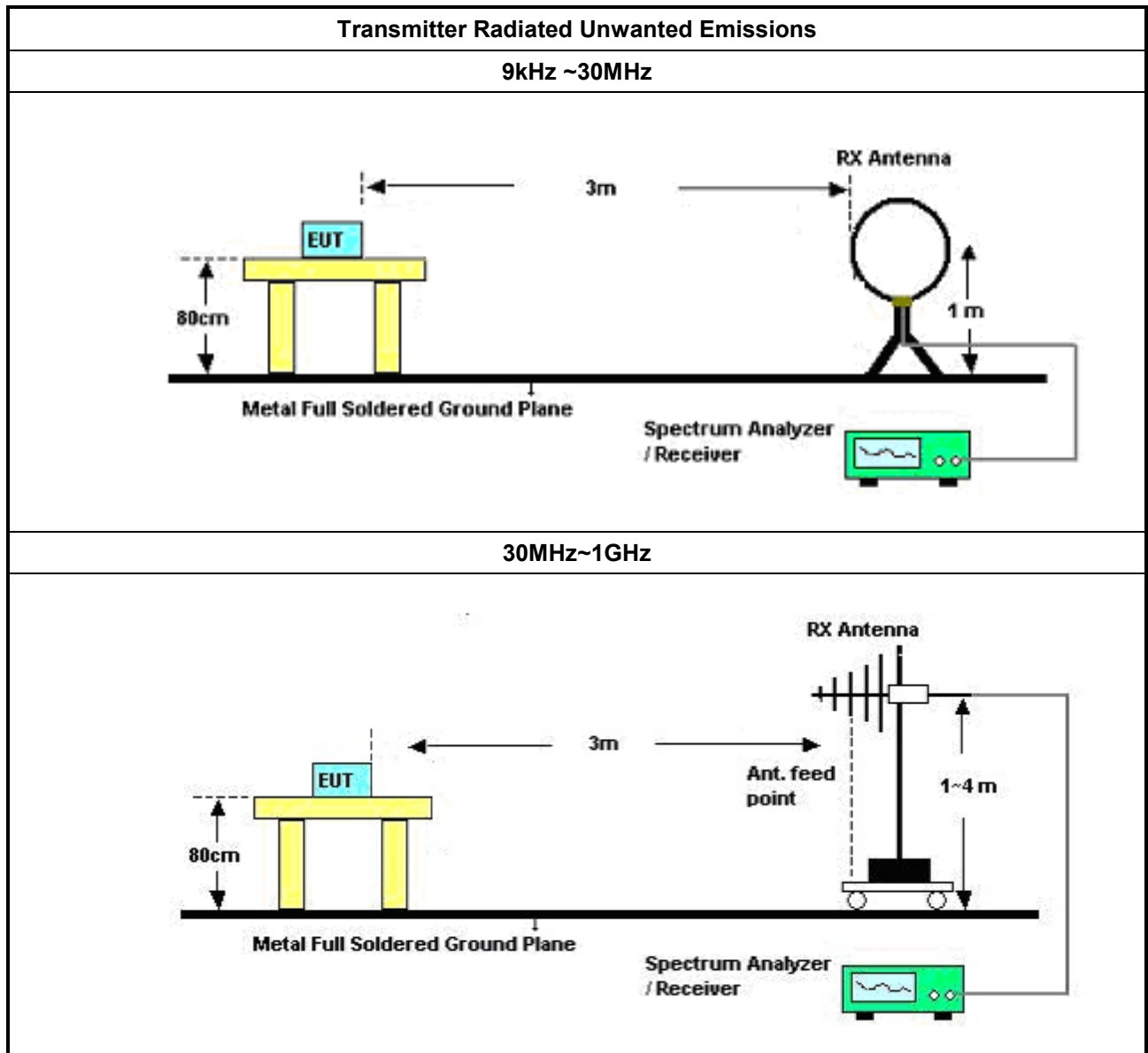
Test Method	
Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above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

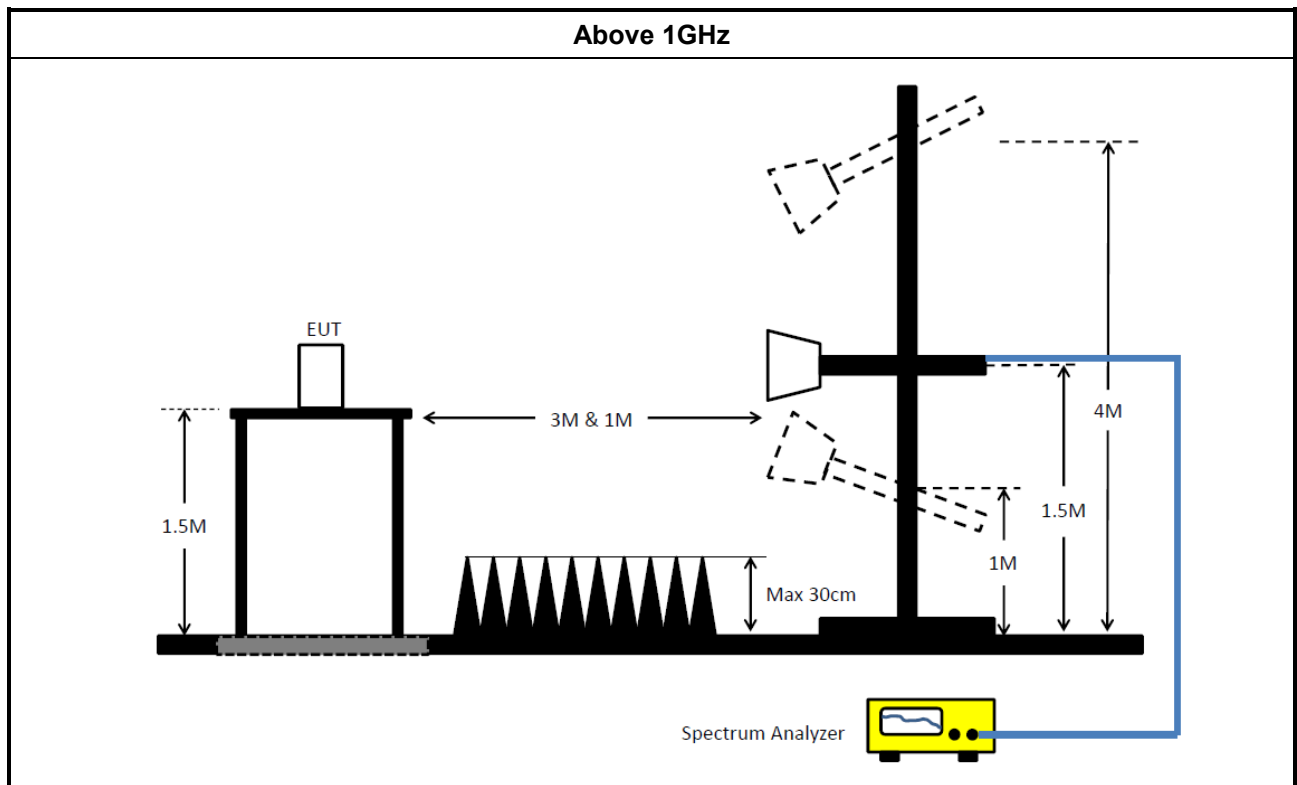
3.4.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.5 Test Setup





3.4.6 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.

3.4.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV3044	101439	10Hz~44GHz	23/Dec/2024	22/Dec/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15407_NII	Sporton	V5.11.23	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	03CH25-HY	30MHz~1GHz 3m	20/Jul/2024	19/Jul/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH25-HY	1GHz~18GHz 3m	08/Aug/2024	07/Aug/2025
ESR7 EMI Test Receiver	ROHDE & SCHWARZ	ESR7	102956	9kHz~3.6GHz	27/Aug/2024	26/Aug/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101410	10Hz~44GHz	18/Nov/2024	17/Nov/2025
Loop Antenna	TESEQ	HLA 6120	65417	9kHz~30MHz	17/Oct/2024	16/Oct/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63537/001	30MHz~1GHz	30/May/2024	29/May/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02876	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	9kHz~1GHz	24/Apr/2024	23/Apr/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB007	1GHz~40GHz	15/Feb/2025	14/Feb/2026
Preamplifier	SGH	PRAMP 903	20230515-1	25MHz~3GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-3	1GHz~18GHz	24/May/2024	23/May/2025
Preamplifier	EMCI	EM01G18G	060940	1GHz~18GHz	22/Oct/2024	21/Oct/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-15407-NII	Sporton	V5.11.23	NA	NA	NA	NA

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)_1TX	25.52M	16.995M	17MOD1D	21.065M	16.91M
802.11ax HEW20_Nss1,(MCS0)_1TX	24.97M	19.056M	19M1D1D	21.065M	18.926M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	25.63M	17.245M	17M2D1D	21.12M	17.006M
802.11ax HEW20_Nss1,(MCS0)_1TX	24.09M	18.97M	19MOD1D	21.725M	18.788M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	21.835M	16.865M	16M9D1D	20.625M	16.49M
802.11ax HEW20_Nss1,(MCS0)_1TX	23.375M	18.957M	19MOD1D	20.9M	18.784M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.06M	17.371M	17M4D1D	14.465M	16.556M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.205M	18.963M	19MOD1D	14.685M	18.719M

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)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	25.52M	16.924M
5200MHz	Pass	Inf	21.45M	16.91M
5240MHz	Pass	Inf	21.065M	16.995M
5260MHz	Pass	Inf	25.63M	17.118M
5300MHz	Pass	Inf	21.12M	17.006M
5320MHz	Pass	Inf	25.08M	17.245M
5500MHz	Pass	Inf	21.01M	16.865M
5580MHz	Pass	Inf	21.835M	16.729M
5700MHz	Pass	Inf	20.625M	16.49M
5745MHz	Pass	500k	16.06M	16.556M
5785MHz	Pass	500k	14.465M	16.887M
5825MHz	Pass	500k	15.07M	17.371M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.065M	18.926M
5200MHz	Pass	Inf	24.97M	19.056M
5240MHz	Pass	Inf	22.715M	19.03M
5260MHz	Pass	Inf	24.09M	18.959M
5300MHz	Pass	Inf	21.725M	18.97M
5320MHz	Pass	Inf	23.87M	18.788M
5500MHz	Pass	Inf	23.375M	18.957M
5580MHz	Pass	Inf	22.495M	18.948M
5700MHz	Pass	Inf	20.9M	18.784M
5745MHz	Pass	500k	18.205M	18.893M
5785MHz	Pass	500k	14.685M	18.963M
5825MHz	Pass	500k	15.125M	18.719M

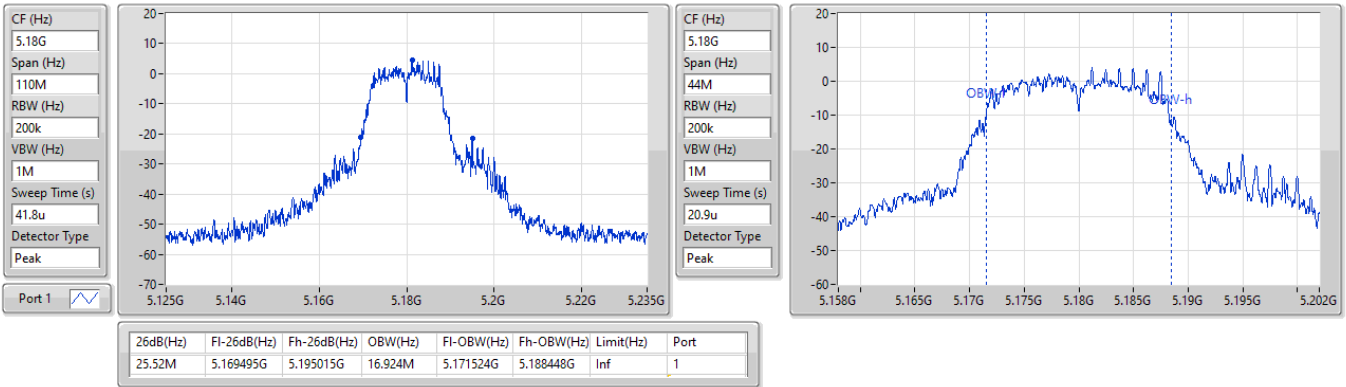
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5180MHz

23/04/2025

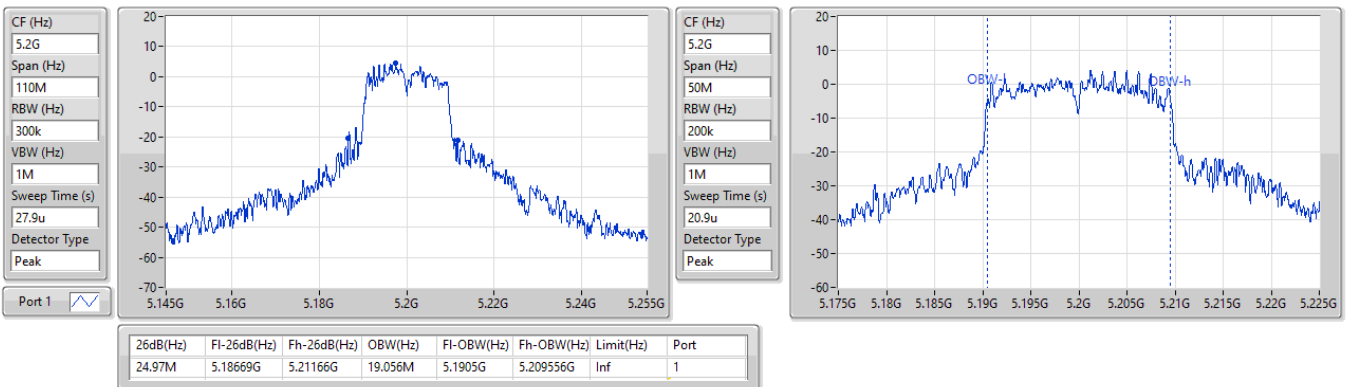


5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

EBW

5200MHz

23/04/2025

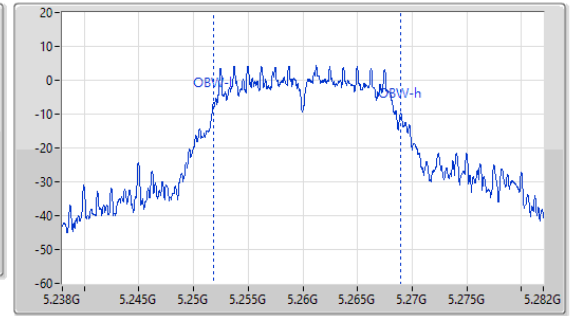
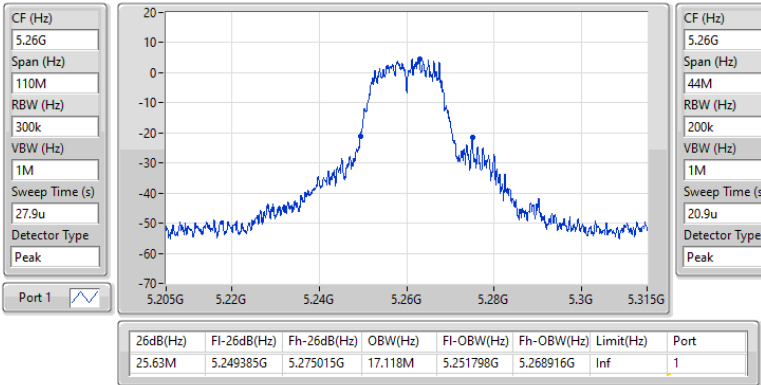


5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5260MHz

23/04/2025

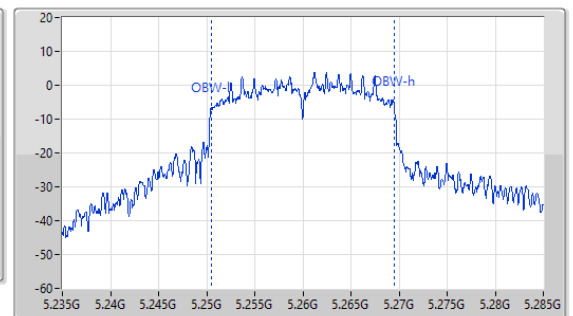
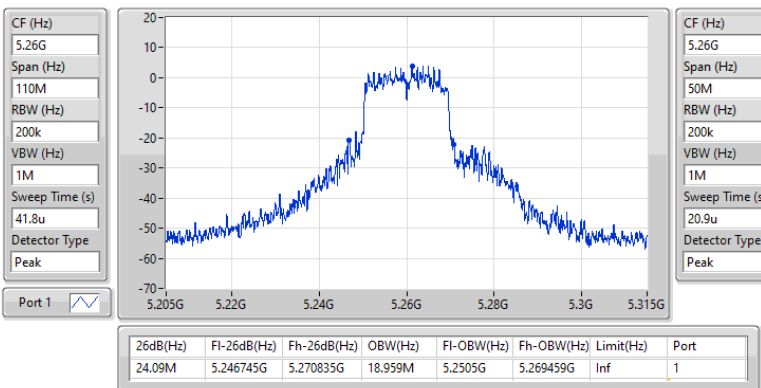


5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

EBW

5260MHz

23/04/2025

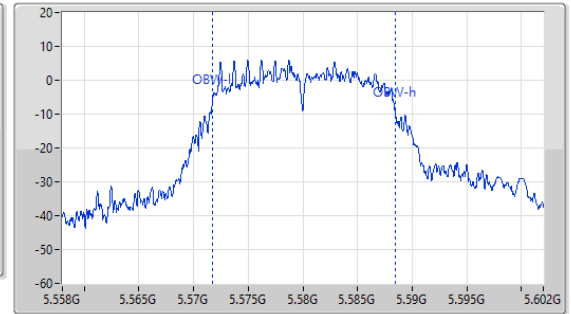
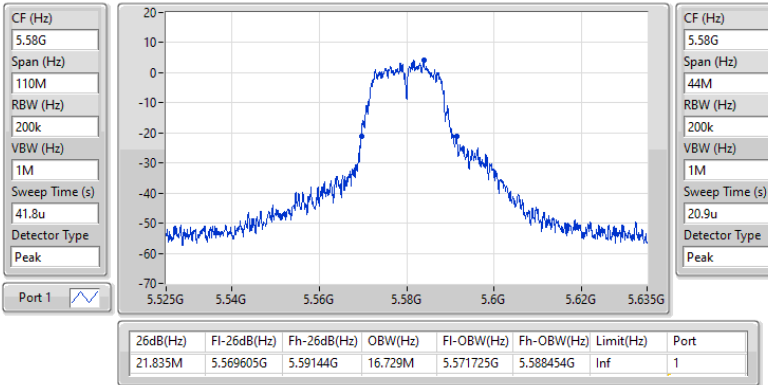


5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5580MHz

23/04/2025

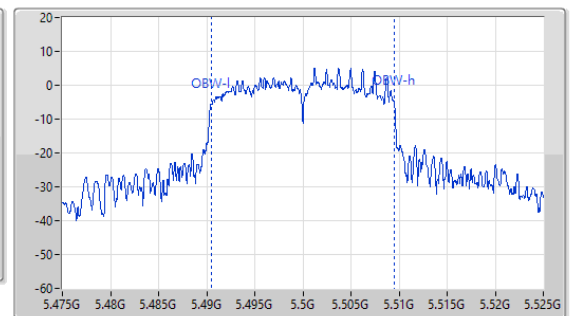
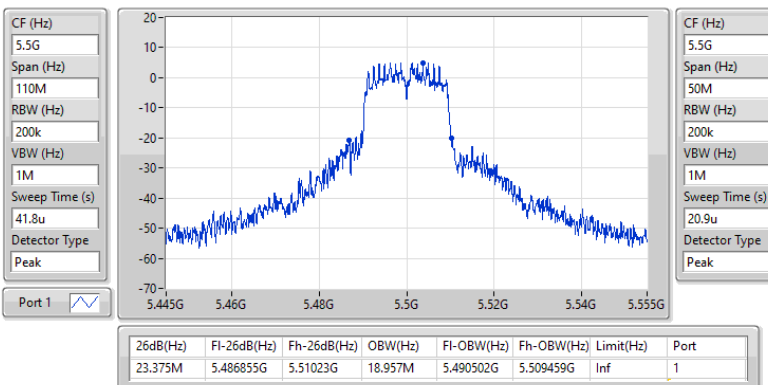


5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5500MHz

23/04/2025

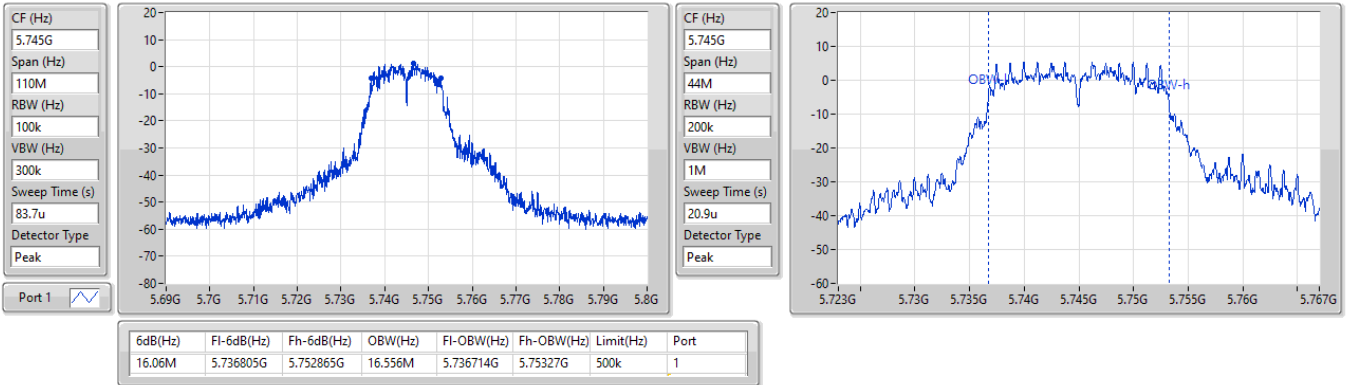


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

23/04/2025

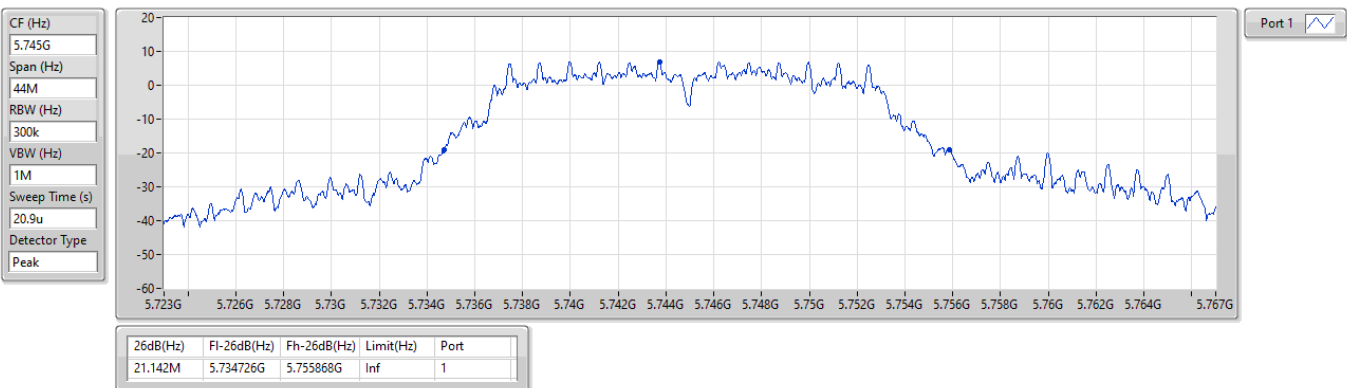


5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

EBW

5745MHz

23/04/2025

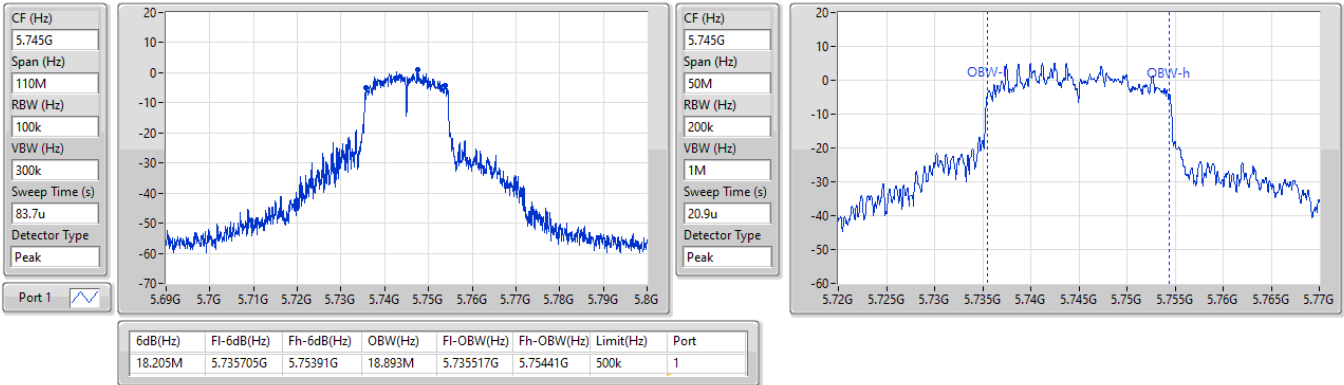


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

23/04/2025

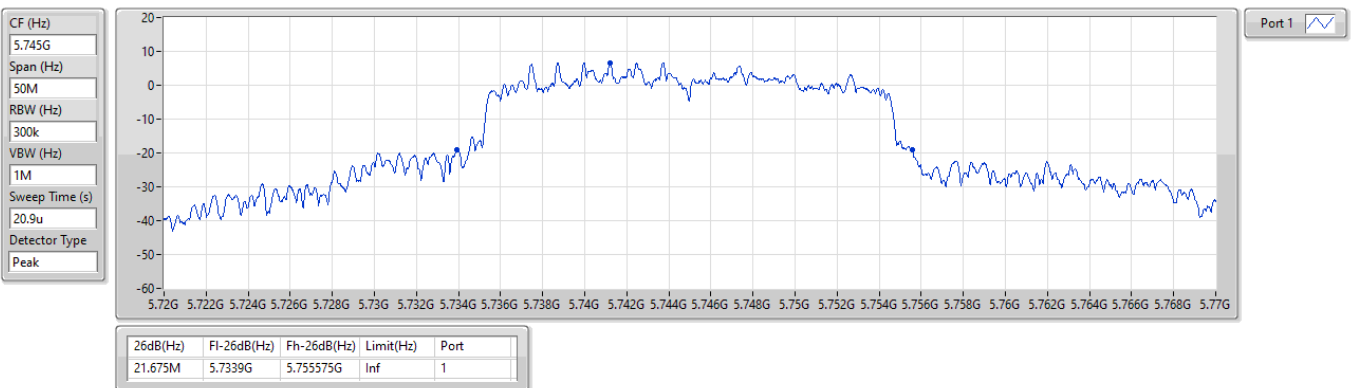


5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

5745MHz

23/04/2025



Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	13.01	0.02000
802.11ax HEW20_Nss1,(MCS0)_1TX	13.00	0.01995
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	13.42	0.02198
802.11ax HEW20_Nss1,(MCS0)_1TX	13.45	0.02213
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	14.86	0.03062
802.11ax HEW20_Nss1,(MCS0)_1TX	14.84	0.03048
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	14.18	0.02618
802.11ax HEW20_Nss1,(MCS0)_1TX	14.19	0.02624

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	2.30	13.01	13.01	23.98
5200MHz	Pass	2.30	12.78	12.78	23.98
5240MHz	Pass	2.30	12.40	12.40	23.98
5260MHz	Pass	2.30	12.89	12.89	23.98
5300MHz	Pass	2.30	13.29	13.29	23.98
5320MHz	Pass	2.30	13.42	13.42	23.98
5500MHz	Pass	2.30	14.14	14.14	23.98
5580MHz	Pass	2.30	14.86	14.86	23.98
5700MHz	Pass	2.30	12.95	12.95	23.98
5745MHz	Pass	2.30	14.18	14.18	30.00
5785MHz	Pass	2.30	13.61	13.61	30.00
5825MHz	Pass	2.30	12.94	12.94	30.00
802.11ax_HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	2.30	12.19	12.19	23.98
5200MHz	Pass	2.30	13.00	13.00	23.98
5240MHz	Pass	2.30	12.62	12.62	23.98
5260MHz	Pass	2.30	12.80	12.80	23.98
5300MHz	Pass	2.30	13.28	13.28	23.98
5320MHz	Pass	2.30	13.45	13.45	23.98
5500MHz	Pass	2.30	14.18	14.18	23.98
5580MHz	Pass	2.30	14.84	14.84	23.98
5700MHz	Pass	2.30	10.87	10.87	23.98
5745MHz	Pass	2.30	14.19	14.19	30.00
5785MHz	Pass	2.30	13.58	13.58	30.00
5825MHz	Pass	2.30	12.94	12.94	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)_1TX	2.06
802.11ax HEW20_Nss1,(MCS0)_1TX	1.97
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_1TX	2.61
802.11ax HEW20_Nss1,(MCS0)_1TX	2.37
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_1TX	3.85
802.11ax HEW20_Nss1,(MCS0)_1TX	3.57
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	1.85
802.11ax HEW20_Nss1,(MCS0)_1TX	1.75

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	2.30	2.06	2.06	11.00
5200MHz	Pass	2.30	1.71	1.71	11.00
5240MHz	Pass	2.30	1.43	1.43	11.00
5260MHz	Pass	2.30	1.95	1.95	11.00
5300MHz	Pass	2.30	2.36	2.36	11.00
5320MHz	Pass	2.30	2.61	2.61	11.00
5500MHz	Pass	2.30	3.01	3.01	11.00
5580MHz	Pass	2.30	3.85	3.85	11.00
5700MHz	Pass	2.30	2.00	2.00	11.00
5745MHz	Pass	2.30	1.85	1.85	30.00
5785MHz	Pass	2.30	1.24	1.24	30.00
5825MHz	Pass	2.30	0.45	0.45	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	2.30	1.20	1.20	11.00
5200MHz	Pass	2.30	1.97	1.97	11.00
5240MHz	Pass	2.30	1.52	1.52	11.00
5260MHz	Pass	2.30	1.73	1.73	11.00
5300MHz	Pass	2.30	2.32	2.32	11.00
5320MHz	Pass	2.30	2.37	2.37	11.00
5500MHz	Pass	2.30	2.85	2.85	11.00
5580MHz	Pass	2.30	3.57	3.57	11.00
5700MHz	Pass	2.30	-0.31	-0.31	11.00
5745MHz	Pass	2.30	1.75	1.75	30.00
5785MHz	Pass	2.30	1.16	1.16	30.00
5825MHz	Pass	2.30	0.43	0.43	30.00

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

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

Inf = There's no restriction for the limit.

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5180MHz

23/04/2025

CF (Hz)
5.18G

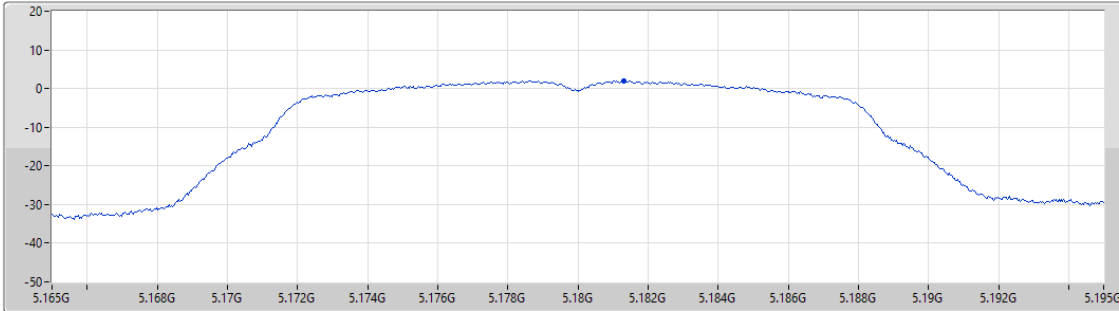
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
4.066

Detector Type
RMS



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.06	2.06	2.06

5.15-5.25GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

5200MHz

23/04/2025

CF (Hz)
5.2G

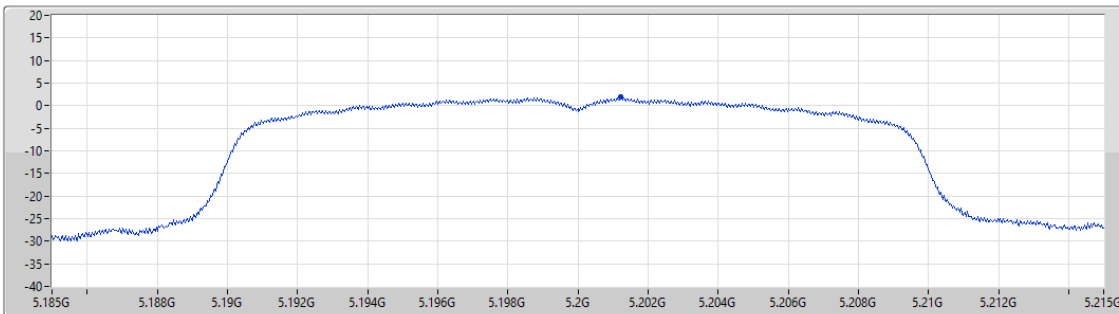
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
3.284

Detector Type
RMS



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.97	1.97	1.97

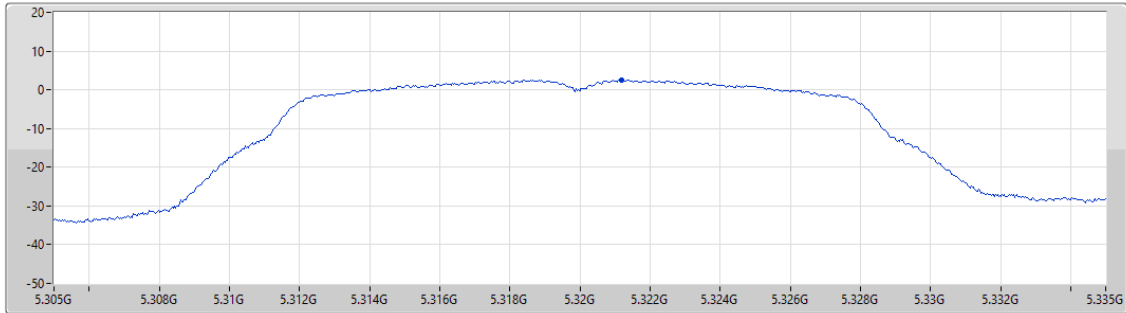
5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5320MHz

23/04/2025

CF (Hz)
5.32G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
4.066
Detector Type
RMS



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.61	2.61	2.61

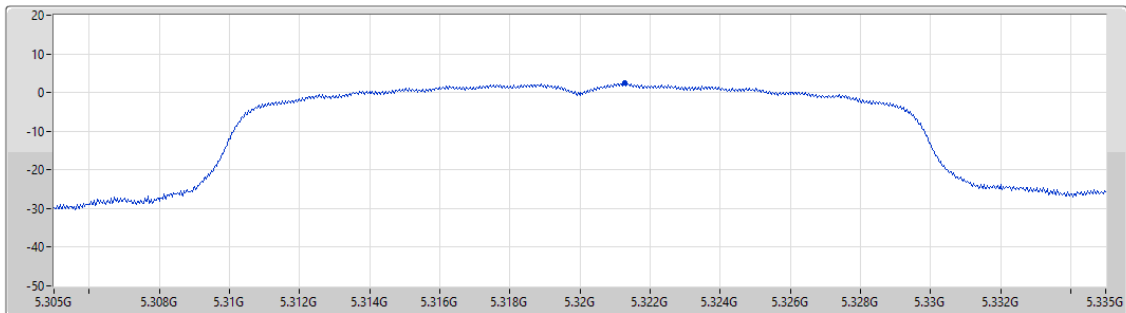
5.25-5.35GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

5320MHz

23/04/2025

CF (Hz)
5.32G
Span (Hz)
30M
RBW (Hz)
1M
VBW (Hz)
3M
Sweep Time (s)
3.284
Detector Type
RMS



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.37	2.37	2.37

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5580MHz

23/04/2025

CF (Hz)
5.58G

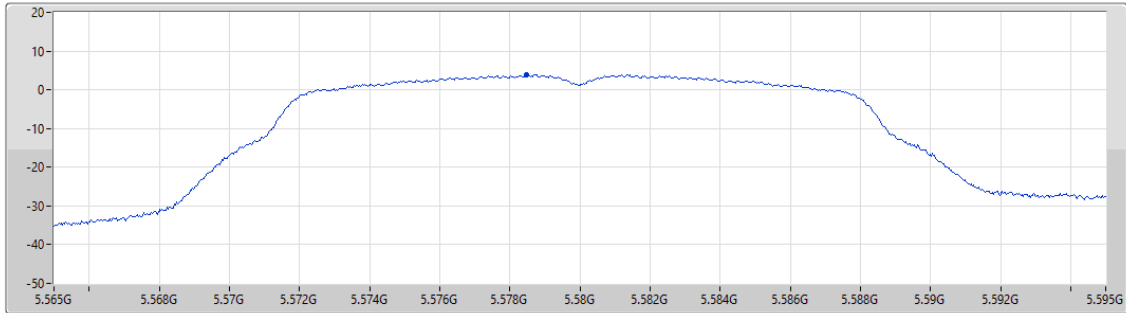
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
4.066

Detector Type
RMS



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.85	3.85	3.85

5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

5580MHz

23/04/2025

CF (Hz)
5.58G

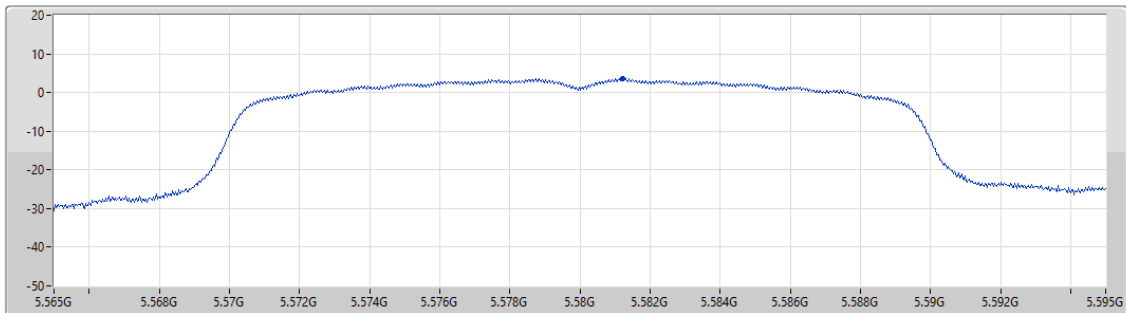
Span (Hz)
30M

RBW (Hz)
1M

VBW (Hz)
3M

Sweep Time (s)
3.284

Detector Type
RMS



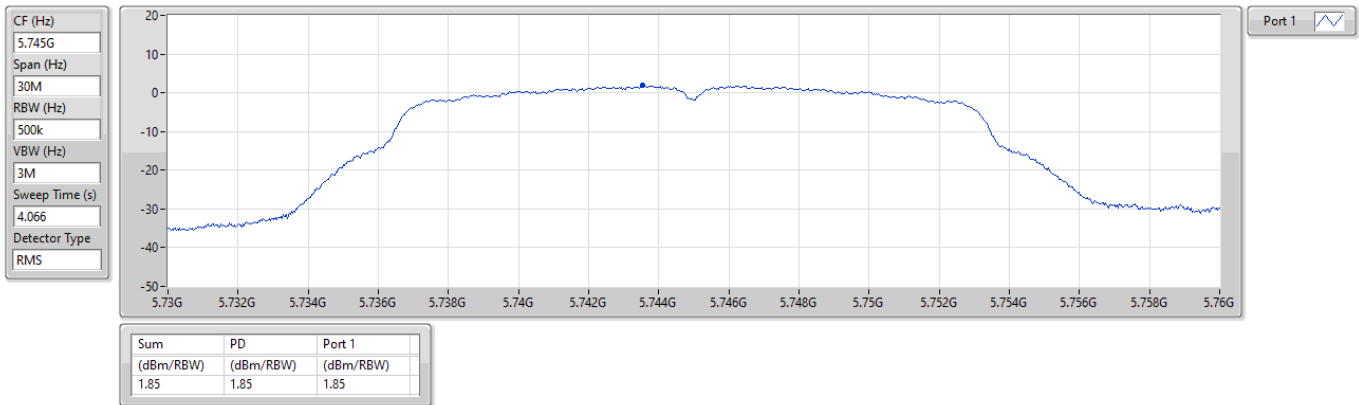
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
3.57	3.57	3.57

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

PSD

5745MHz

23/04/2025

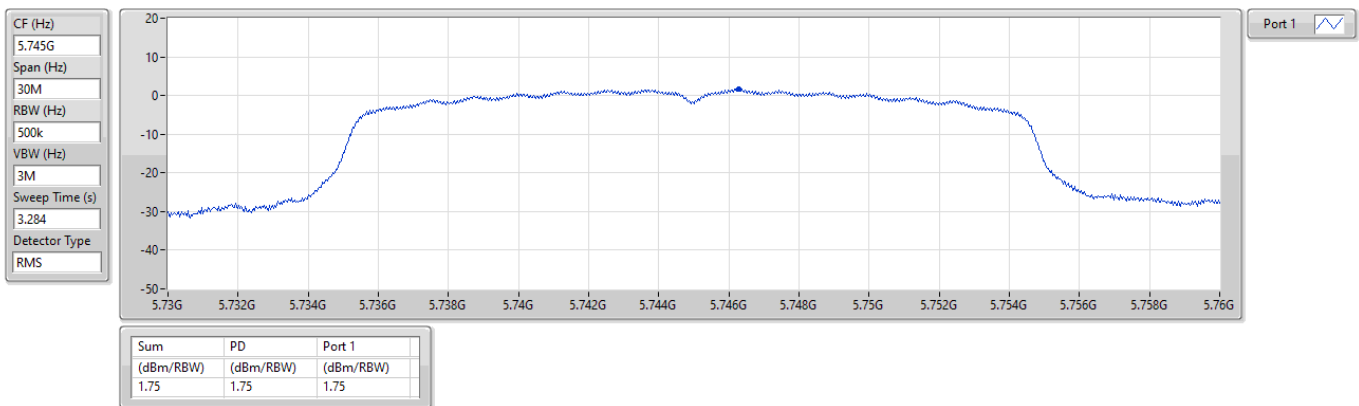


5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

5745MHz

23/04/2025





Summary

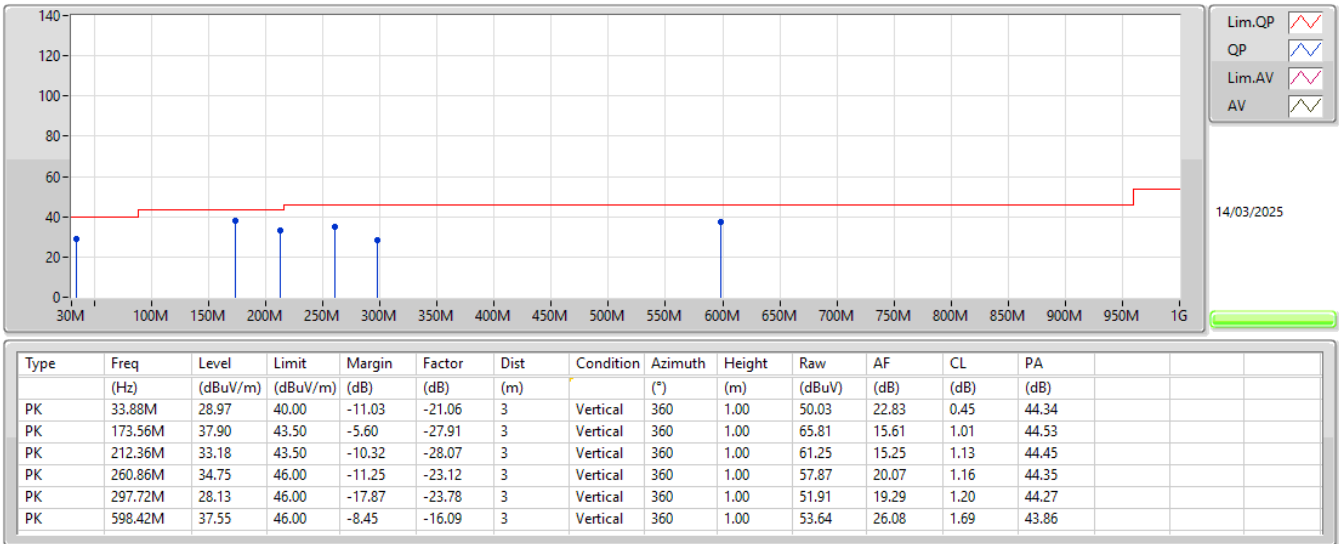
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	712.88M	40.89	46.00	-5.11	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5825MHz_Fixture	Pass	PK	33.88M	28.97	40.00	-11.03	3	Vertical	360	1.00
5825MHz_Fixture	Pass	PK	173.56M	37.90	43.50	-5.60	3	Vertical	360	1.00
5825MHz_Fixture	Pass	PK	212.36M	33.18	43.50	-10.32	3	Vertical	360	1.00
5825MHz_Fixture	Pass	PK	260.86M	34.75	46.00	-11.25	3	Vertical	360	1.00
5825MHz_Fixture	Pass	PK	297.72M	28.13	46.00	-17.87	3	Vertical	360	1.00
5825MHz_Fixture	Pass	PK	598.42M	37.55	46.00	-8.45	3	Vertical	360	1.00
5825MHz_Fixture	Pass	PK	30M	34.43	40.00	-5.57	3	Horizontal	0	1.00
5825MHz_Fixture	Pass	PK	119.24M	28.23	43.50	-15.27	3	Horizontal	0	1.00
5825MHz_Fixture	Pass	PK	239.52M	40.33	46.00	-5.67	3	Horizontal	0	1.00
5825MHz_Fixture	Pass	PK	297.72M	38.08	46.00	-7.92	3	Horizontal	0	1.00
5825MHz_Fixture	Pass	PK	418M	35.08	46.00	-10.92	3	Horizontal	0	1.00
5825MHz_Fixture	Pass	PK	712.88M	40.89	46.00	-5.11	3	Horizontal	0	1.00

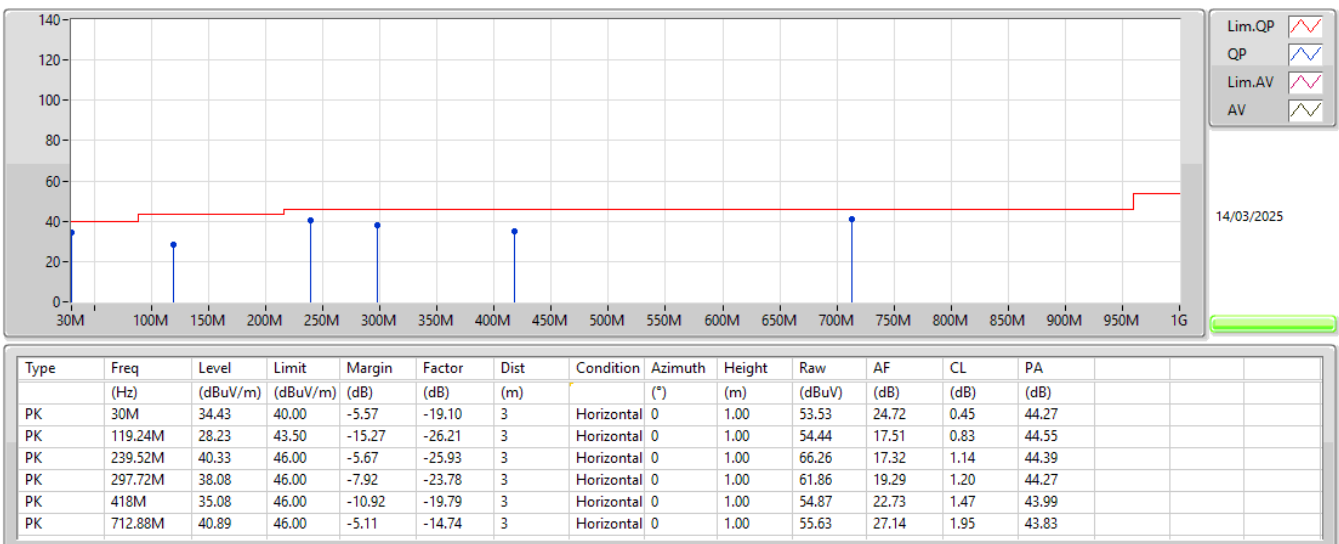
5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5825MHz_Fixture



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5825MHz_Fixture



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)_1TX	Pass	AV	5.1494G	48.92	54.00	-5.08	3	Horizontal	53	1.50
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	5.15G	52.50	54.00	-1.50	3	Horizontal	98	1.00
5.25-5.35GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	5.3508G	48.47	54.00	-5.53	3	Horizontal	57	1.01
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	5.35G	52.80	54.00	-1.20	3	Horizontal	101	1.00
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	PK	5.4698G	65.99	68.20	-2.21	3	Horizontal	48	1.00
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	5.4678G	67.61	68.20	-0.59	3	Horizontal	219	2.98
5.725-5.85GHz	-	-	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	AV	11.64982G	46.69	54.00	-7.31	3	Vertical	50	1.27
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	11.48994G	47.00	54.00	-7.00	3	Vertical	134	2.97

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.1494G	48.92	54.00	-5.08	3	Horizontal	53	1.50
5180MHz	Pass	AV	5.1784G	95.44	Inf	-Inf	3	Horizontal	53	1.50
5180MHz	Pass	PK	5.1486G	62.28	74.00	-11.72	3	Horizontal	53	1.50
5180MHz	Pass	PK	5.179G	104.55	Inf	-Inf	3	Horizontal	53	1.50
5180MHz	Pass	PK	10.36126G	52.39	68.20	-15.81	3	Vertical	49	1.50
5180MHz	Pass	PK	10.3627G	52.08	68.20	-16.12	3	Horizontal	51	1.50
5200MHz	Pass	AV	5.1172G	46.30	54.00	-7.70	3	Horizontal	53	1.50
5200MHz	Pass	AV	5.2012G	95.15	Inf	-Inf	3	Horizontal	53	1.50
5200MHz	Pass	PK	5.1392G	57.69	74.00	-16.31	3	Horizontal	53	1.50
5200MHz	Pass	PK	5.1968G	104.40	Inf	-Inf	3	Horizontal	53	1.50
5200MHz	Pass	PK	10.4033G	52.73	68.20	-15.47	3	Vertical	50	1.28
5200MHz	Pass	PK	10.40114G	52.28	68.20	-15.92	3	Horizontal	50	1.50
5240MHz	Pass	AV	5.1416G	45.77	54.00	-8.23	3	Horizontal	54	1.50
5240MHz	Pass	AV	5.2388G	94.96	Inf	-Inf	3	Horizontal	54	1.50
5240MHz	Pass	AV	5.3516G	46.01	54.00	-7.99	3	Horizontal	54	1.50
5240MHz	Pass	PK	5.1488G	57.59	74.00	-16.41	3	Horizontal	54	1.50
5240MHz	Pass	PK	5.2382G	103.79	Inf	-Inf	3	Horizontal	54	1.50
5240MHz	Pass	PK	5.3666G	58.12	74.00	-15.88	3	Horizontal	54	1.50
5240MHz	Pass	PK	10.4713G	51.40	68.20	-16.80	3	Vertical	55	1.50
5240MHz	Pass	PK	10.48042G	51.89	68.20	-16.31	3	Horizontal	50	1.61
5260MHz	Pass	AV	5.1256G	45.95	54.00	-8.05	3	Horizontal	58	1.00
5260MHz	Pass	AV	5.2612G	96.59	Inf	-Inf	3	Horizontal	58	1.00
5260MHz	Pass	AV	5.3902G	46.19	54.00	-7.81	3	Horizontal	58	1.00
5260MHz	Pass	PK	5.1256G	57.28	74.00	-16.72	3	Horizontal	58	1.00
5260MHz	Pass	PK	5.2612G	105.64	Inf	-Inf	3	Horizontal	58	1.00
5260MHz	Pass	PK	5.4082G	58.00	74.00	-16.00	3	Horizontal	58	1.00
5260MHz	Pass	PK	10.52768G	52.55	68.20	-15.65	3	Vertical	51	1.28
5260MHz	Pass	PK	10.51034G	52.32	68.20	-15.88	3	Horizontal	51	1.50
5300MHz	Pass	AV	5.2984G	97.27	Inf	-Inf	3	Horizontal	56	1.07
5300MHz	Pass	AV	5.3812G	46.21	54.00	-7.79	3	Horizontal	56	1.07
5300MHz	Pass	PK	5.3024G	105.87	Inf	-Inf	3	Horizontal	56	1.07
5300MHz	Pass	PK	5.3572G	57.84	74.00	-16.16	3	Horizontal	56	1.07
5300MHz	Pass	AV	10.60006G	44.11	54.00	-9.89	3	Vertical	65	2.92
5300MHz	Pass	PK	10.59976G	52.70	68.20	-15.50	3	Vertical	65	2.92
5300MHz	Pass	AV	10.60006G	42.09	54.00	-11.91	3	Horizontal	51	1.56
5300MHz	Pass	PK	10.5913G	52.03	68.20	-16.17	3	Horizontal	51	1.56
5320MHz	Pass	AV	5.3184G	97.60	Inf	-Inf	3	Horizontal	57	1.01
5320MHz	Pass	AV	5.3508G	48.47	54.00	-5.53	3	Horizontal	57	1.01
5320MHz	Pass	PK	5.3188G	107.15	Inf	-Inf	3	Horizontal	57	1.01
5320MHz	Pass	PK	5.35G	61.98	74.00	-12.02	3	Horizontal	57	1.01
5320MHz	Pass	AV	10.63988G	42.47	54.00	-11.53	3	Vertical	60	1.25
5320MHz	Pass	PK	10.65314G	51.61	74.00	-22.39	3	Vertical	60	1.25
5320MHz	Pass	AV	10.63994G	41.80	54.00	-12.20	3	Horizontal	48	1.50
5320MHz	Pass	PK	10.65044G	51.90	74.00	-22.10	3	Horizontal	48	1.50
5500MHz	Pass	AV	5.4572G	46.98	54.00	-7.02	3	Horizontal	48	1.00
5500MHz	Pass	AV	5.5016G	101.09	Inf	-Inf	3	Horizontal	48	1.00
5500MHz	Pass	PK	5.46G	59.62	74.00	-14.38	3	Horizontal	48	1.00
5500MHz	Pass	PK	5.4698G	65.99	68.20	-2.21	3	Horizontal	48	1.00
5500MHz	Pass	PK	5.499G	110.49	Inf	-Inf	3	Horizontal	48	1.00
5500MHz	Pass	AV	10.9973G	41.04	54.00	-12.96	3	Vertical	49	1.62
5500MHz	Pass	PK	11.00282G	51.78	74.00	-22.22	3	Vertical	49	1.62
5500MHz	Pass	AV	10.9946G	40.25	54.00	-13.75	3	Horizontal	50	1.40
5500MHz	Pass	PK	10.99172G	50.83	74.00	-23.17	3	Horizontal	50	1.40
5580MHz	Pass	AV	5.4408G	46.51	54.00	-7.49	3	Horizontal	49	1.00
5580MHz	Pass	AV	5.5782G	101.81	Inf	-Inf	3	Horizontal	49	1.00
5580MHz	Pass	PK	5.4384G	57.36	74.00	-16.64	3	Horizontal	49	1.00
5580MHz	Pass	PK	5.469G	56.87	68.20	-11.33	3	Horizontal	49	1.00
5580MHz	Pass	PK	5.5782G	110.95	Inf	-Inf	3	Horizontal	49	1.00
5580MHz	Pass	PK	5.7276G	58.13	68.20	-10.07	3	Horizontal	49	1.00
5580MHz	Pass	AV	11.16G	41.49	54.00	-12.51	3	Vertical	47	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5580MHz	Pass	PK	11.15364G	52.20	74.00	-21.80	3	Vertical	47	1.50
5580MHz	Pass	AV	11.157G	40.14	54.00	-13.86	3	Horizontal	357	2.82
5580MHz	Pass	PK	11.16438G	51.33	74.00	-22.67	3	Horizontal	357	2.82
5700MHz	Pass	AV	5.6984G	101.27	Inf	-Inf	3	Horizontal	50	1.00
5700MHz	Pass	PK	5.6984G	110.57	Inf	-Inf	3	Horizontal	50	1.00
5700MHz	Pass	PK	5.726G	64.48	68.20	-3.72	3	Horizontal	50	1.00
5700MHz	Pass	AV	11.39994G	43.88	54.00	-10.12	3	Vertical	52	1.50
5700MHz	Pass	PK	11.39718G	53.35	74.00	-20.65	3	Vertical	52	1.50
5700MHz	Pass	AV	11.39952G	41.62	54.00	-12.38	3	Horizontal	57	1.77
5700MHz	Pass	PK	11.40702G	52.34	74.00	-21.66	3	Horizontal	57	1.77
5745MHz	Pass	AV	5.457G	45.71	54.00	-8.29	3	Horizontal	50	1.00
5745MHz	Pass	AV	5.7462G	101.83	Inf	-Inf	3	Horizontal	50	1.00
5745MHz	Pass	PK	5.5974G	57.51	68.20	-10.69	3	Horizontal	50	1.00
5745MHz	Pass	PK	5.745G	110.92	Inf	-Inf	3	Horizontal	50	1.00
5745MHz	Pass	PK	5.9958G	59.39	68.20	-8.81	3	Horizontal	50	1.00
5745MHz	Pass	AV	11.49G	46.11	54.00	-7.89	3	Vertical	53	2.01
5745MHz	Pass	PK	11.49528G	55.96	74.00	-18.04	3	Vertical	53	2.01
5745MHz	Pass	AV	11.48928G	42.19	54.00	-11.81	3	Horizontal	59	1.62
5745MHz	Pass	PK	11.48868G	52.60	74.00	-21.40	3	Horizontal	59	1.62
5785MHz	Pass	AV	5.7826G	100.94	Inf	-Inf	3	Horizontal	51	1.00
5785MHz	Pass	PK	5.6314G	58.28	68.20	-9.92	3	Horizontal	51	1.00
5785MHz	Pass	PK	5.7862G	110.69	Inf	-Inf	3	Horizontal	51	1.00
5785MHz	Pass	PK	6.0454G	59.22	68.20	-8.98	3	Horizontal	51	1.00
5785MHz	Pass	AV	11.56994G	44.69	54.00	-9.31	3	Vertical	53	1.50
5785MHz	Pass	PK	11.5715G	55.03	74.00	-18.97	3	Vertical	53	1.50
5785MHz	Pass	AV	11.56976G	41.87	54.00	-12.13	3	Horizontal	56	1.50
5785MHz	Pass	PK	11.55548G	52.37	74.00	-21.63	3	Horizontal	56	1.50
5825MHz	Pass	AV	5.8238G	99.81	Inf	-Inf	3	Horizontal	51	1.00
5825MHz	Pass	PK	5.6342G	58.08	68.20	-10.12	3	Horizontal	51	1.00
5825MHz	Pass	PK	5.8238G	108.73	Inf	-Inf	3	Horizontal	51	1.00
5825MHz	Pass	PK	5.9558G	59.88	68.20	-8.32	3	Horizontal	51	1.00
5825MHz	Pass	AV	11.64982G	46.69	54.00	-7.31	3	Vertical	50	1.27
5825MHz	Pass	PK	11.64868G	56.16	74.00	-17.84	3	Vertical	50	1.27
5825MHz	Pass	AV	11.65006G	41.60	54.00	-12.40	3	Horizontal	50	1.50
5825MHz	Pass	PK	11.647G	51.84	74.00	-22.16	3	Horizontal	50	1.50
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	AV	5.15G	52.50	54.00	-1.50	3	Horizontal	98	1.00
5180MHz	Pass	AV	5.1832G	96.42	Inf	-Inf	3	Horizontal	98	1.00
5180MHz	Pass	PK	5.1472G	64.58	74.00	-9.42	3	Horizontal	98	1.00
5180MHz	Pass	PK	5.1844G	107.17	Inf	-Inf	3	Horizontal	98	1.00
5180MHz	Pass	PK	10.3603G	53.72	68.20	-14.48	3	Vertical	187	2.70
5180MHz	Pass	PK	10.36942G	51.64	68.20	-16.56	3	Horizontal	17	1.50
5200MHz	Pass	AV	5.1264G	47.29	54.00	-6.71	3	Horizontal	217	3.00
5200MHz	Pass	AV	5.2016G	95.33	Inf	-Inf	3	Horizontal	217	3.00
5200MHz	Pass	PK	5.1492G	58.76	74.00	-15.24	3	Horizontal	217	3.00
5200MHz	Pass	PK	5.204G	105.97	Inf	-Inf	3	Horizontal	217	3.00
5200MHz	Pass	PK	10.39988G	54.57	68.20	-13.63	3	Vertical	193	2.51
5200MHz	Pass	PK	10.41056G	51.57	68.20	-16.63	3	Horizontal	273	2.46
5240MHz	Pass	AV	5.1332G	46.77	54.00	-7.23	3	Horizontal	99	1.00
5240MHz	Pass	AV	5.2376G	95.53	Inf	-Inf	3	Horizontal	99	1.00
5240MHz	Pass	AV	5.3618G	47.21	54.00	-6.79	3	Horizontal	99	1.00
5240MHz	Pass	PK	5.1344G	57.17	74.00	-16.83	3	Horizontal	99	1.00
5240MHz	Pass	PK	5.2346G	106.17	Inf	-Inf	3	Horizontal	99	1.00
5240MHz	Pass	PK	5.3708G	57.29	74.00	-16.71	3	Horizontal	99	1.00
5240MHz	Pass	PK	10.48018G	53.11	68.20	-15.09	3	Vertical	131	2.27
5240MHz	Pass	PK	10.48144G	52.19	68.20	-16.01	3	Horizontal	61	2.69
5260MHz	Pass	AV	5.15G	46.70	54.00	-7.30	3	Horizontal	214	1.00
5260MHz	Pass	AV	5.2588G	94.91	Inf	-Inf	3	Horizontal	214	1.00
5260MHz	Pass	AV	5.3518G	47.24	54.00	-6.76	3	Horizontal	214	1.00
5260MHz	Pass	PK	5.1352G	57.72	74.00	-16.28	3	Horizontal	214	1.00
5260MHz	Pass	PK	5.2576G	104.82	Inf	-Inf	3	Horizontal	214	1.00
5260MHz	Pass	PK	5.4082G	57.79	74.00	-16.21	3	Horizontal	214	1.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5260MHz	Pass	PK	10.52G	54.00	68.20	-14.20	3	Vertical	189	2.57
5260MHz	Pass	PK	10.5305G	52.02	68.20	-16.18	3	Horizontal	298	2.92
5300MHz	Pass	AV	5.3012G	94.82	Inf	-Inf	3	Horizontal	216	1.00
5300MHz	Pass	AV	5.3812G	47.37	54.00	-6.63	3	Horizontal	216	1.00
5300MHz	Pass	PK	5.2972G	105.29	Inf	-Inf	3	Horizontal	216	1.00
5300MHz	Pass	PK	5.35G	57.97	74.00	-16.03	3	Horizontal	216	1.00
5300MHz	Pass	PK	10.59538G	51.50	68.20	-16.70	3	Vertical	213	1.02
5300MHz	Pass	PK	10.59004G	51.44	68.20	-16.76	3	Horizontal	211	2.73
5320MHz	Pass	AV	5.3178G	95.53	Inf	-Inf	3	Horizontal	101	1.00
5320MHz	Pass	AV	5.35G	52.80	54.00	-1.20	3	Horizontal	101	1.00
5320MHz	Pass	PK	5.3232G	105.70	Inf	-Inf	3	Horizontal	101	1.00
5320MHz	Pass	PK	5.3502G	68.44	74.00	-5.56	3	Horizontal	101	1.00
5320MHz	Pass	AV	10.63982G	43.27	54.00	-10.73	3	Vertical	213	1.00
5320MHz	Pass	PK	10.6412G	52.01	74.00	-21.99	3	Vertical	213	1.00
5320MHz	Pass	AV	10.63994G	41.96	54.00	-12.04	3	Horizontal	136	2.51
5320MHz	Pass	PK	10.64564G	52.84	74.00	-21.16	3	Horizontal	136	2.51
5500MHz	Pass	AV	5.4592G	50.66	54.00	-3.34	3	Horizontal	219	2.98
5500MHz	Pass	AV	5.501G	98.10	Inf	-Inf	3	Horizontal	219	2.98
5500MHz	Pass	PK	5.4588G	63.20	74.00	-10.80	3	Horizontal	219	2.98
5500MHz	Pass	PK	5.4678G	67.61	68.20	-0.59	3	Horizontal	219	2.98
5500MHz	Pass	PK	5.4982G	108.64	Inf	-Inf	3	Horizontal	219	2.98
5500MHz	Pass	AV	10.98962G	41.28	54.00	-12.72	3	Vertical	45	2.48
5500MHz	Pass	PK	10.9895G	51.06	74.00	-22.94	3	Vertical	45	2.48
5500MHz	Pass	AV	11.00324G	41.12	54.00	-12.88	3	Horizontal	208	2.49
5500MHz	Pass	PK	10.9943G	51.23	74.00	-22.77	3	Horizontal	208	2.49
5580MHz	Pass	AV	5.4546G	46.63	54.00	-7.37	3	Horizontal	222	2.97
5580MHz	Pass	AV	5.5818G	99.06	Inf	-Inf	3	Horizontal	222	2.97
5580MHz	Pass	PK	5.4336G	57.28	74.00	-16.72	3	Horizontal	222	2.97
5580MHz	Pass	PK	5.4672G	57.88	68.20	-10.32	3	Horizontal	222	2.97
5580MHz	Pass	PK	5.5818G	109.83	Inf	-Inf	3	Horizontal	222	2.97
5580MHz	Pass	PK	5.7252G	58.41	68.20	-9.79	3	Horizontal	222	2.97
5580MHz	Pass	AV	11.16006G	41.66	54.00	-12.34	3	Vertical	186	2.92
5580MHz	Pass	PK	11.16036G	51.47	74.00	-22.53	3	Vertical	186	2.92
5580MHz	Pass	AV	11.16768G	41.09	54.00	-12.91	3	Horizontal	341	2.92
5580MHz	Pass	PK	11.1606G	51.56	74.00	-22.44	3	Horizontal	341	2.92
5700MHz	Pass	AV	5.6992G	97.14	Inf	-Inf	3	Horizontal	221	3.00
5700MHz	Pass	PK	5.698G	107.99	Inf	-Inf	3	Horizontal	221	3.00
5700MHz	Pass	PK	5.726G	65.75	68.20	-2.45	3	Horizontal	221	3.00
5700MHz	Pass	AV	11.39988G	42.70	54.00	-11.30	3	Vertical	262	1.07
5700MHz	Pass	PK	11.385G	51.81	74.00	-22.19	3	Vertical	262	1.07
5700MHz	Pass	AV	11.3988G	42.57	54.00	-11.43	3	Horizontal	298	3.00
5700MHz	Pass	PK	11.39976G	52.38	74.00	-21.62	3	Horizontal	298	3.00
5745MHz	Pass	AV	5.4534G	46.60	54.00	-7.40	3	Horizontal	219	2.82
5745MHz	Pass	AV	5.7462G	99.27	Inf	-Inf	3	Horizontal	219	2.82
5745MHz	Pass	PK	5.589G	57.88	68.20	-10.32	3	Horizontal	219	2.82
5745MHz	Pass	PK	5.7426G	110.79	Inf	-Inf	3	Horizontal	219	2.82
5745MHz	Pass	PK	5.9394G	59.11	68.20	-9.09	3	Horizontal	219	2.82
5745MHz	Pass	AV	11.48994G	47.00	54.00	-7.00	3	Vertical	134	2.97
5745MHz	Pass	PK	11.4867G	55.55	74.00	-18.45	3	Vertical	134	2.97
5745MHz	Pass	AV	11.49222G	41.92	54.00	-12.08	3	Horizontal	347	1.50
5745MHz	Pass	PK	11.47578G	52.12	74.00	-21.88	3	Horizontal	347	1.50
5785MHz	Pass	AV	5.7838G	98.71	Inf	-Inf	3	Horizontal	220	2.78
5785MHz	Pass	PK	5.617G	57.97	68.20	-10.23	3	Horizontal	220	2.78
5785MHz	Pass	PK	5.7838G	108.91	Inf	-Inf	3	Horizontal	220	2.78
5785MHz	Pass	PK	5.9254G	59.71	68.20	-8.49	3	Horizontal	220	2.78
5785MHz	Pass	AV	11.57192G	44.65	54.00	-9.35	3	Vertical	66	2.62
5785MHz	Pass	PK	11.57126G	55.03	74.00	-18.97	3	Vertical	66	2.62
5785MHz	Pass	AV	11.57216G	42.44	54.00	-11.56	3	Horizontal	25	3.00
5785MHz	Pass	PK	11.56478G	51.56	74.00	-22.44	3	Horizontal	25	3.00
5825MHz	Pass	AV	5.8262G	97.83	Inf	-Inf	3	Horizontal	223	2.84
5825MHz	Pass	PK	5.6174G	57.97	68.20	-10.23	3	Horizontal	223	2.84
5825MHz	Pass	PK	5.8238G	108.62	Inf	-Inf	3	Horizontal	223	2.84



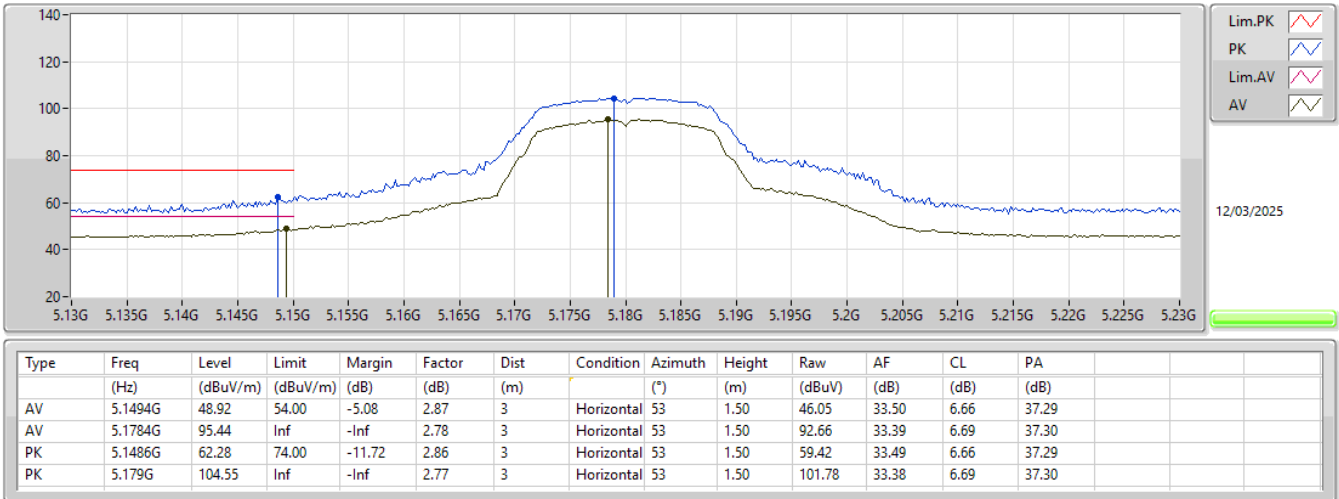
RSE TX above 1GHz

Appendix D.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
5825MHz	Pass	PK	5.9318G	59.17	68.20	-9.03	3	Horizontal	223	2.84
5825MHz	Pass	AV	11.64982G	45.94	54.00	-8.06	3	Vertical	138	2.38
5825MHz	Pass	PK	11.65036G	54.55	74.00	-19.45	3	Vertical	138	2.38
5825MHz	Pass	AV	11.64136G	41.62	54.00	-12.38	3	Horizontal	294	1.50
5825MHz	Pass	PK	11.66404G	51.65	74.00	-22.35	3	Horizontal	294	1.50

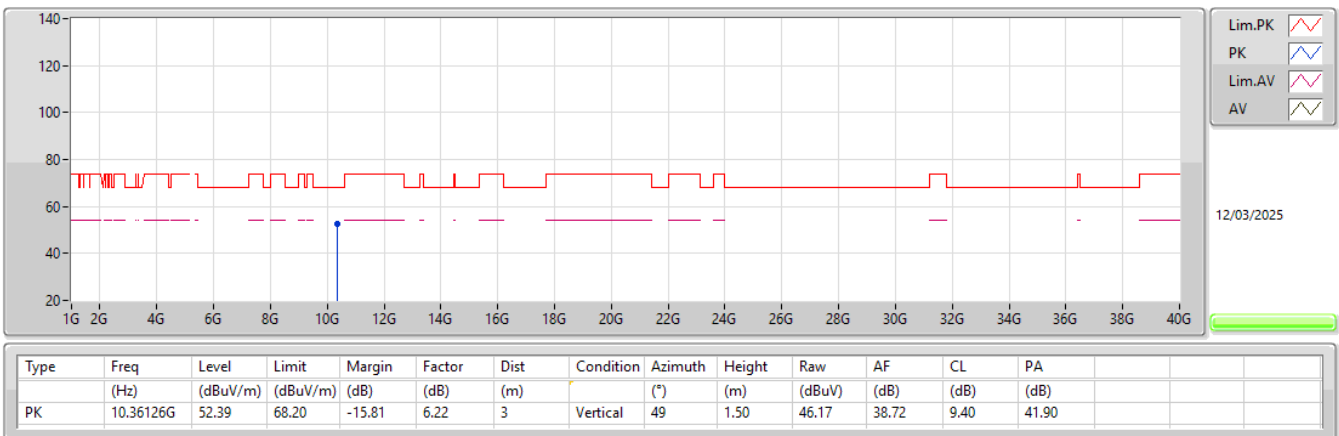
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX



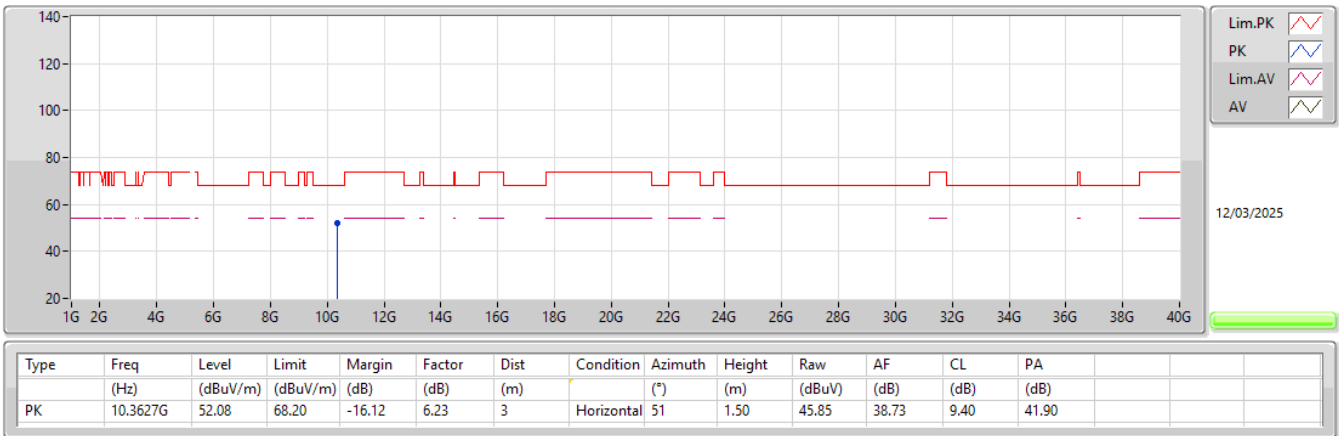
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX



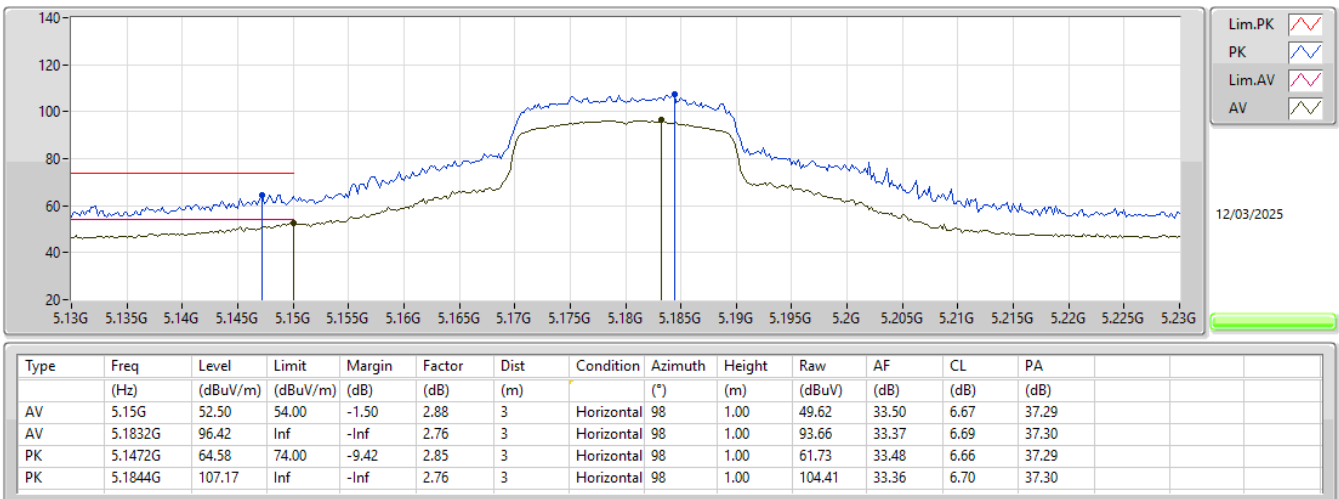
5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX



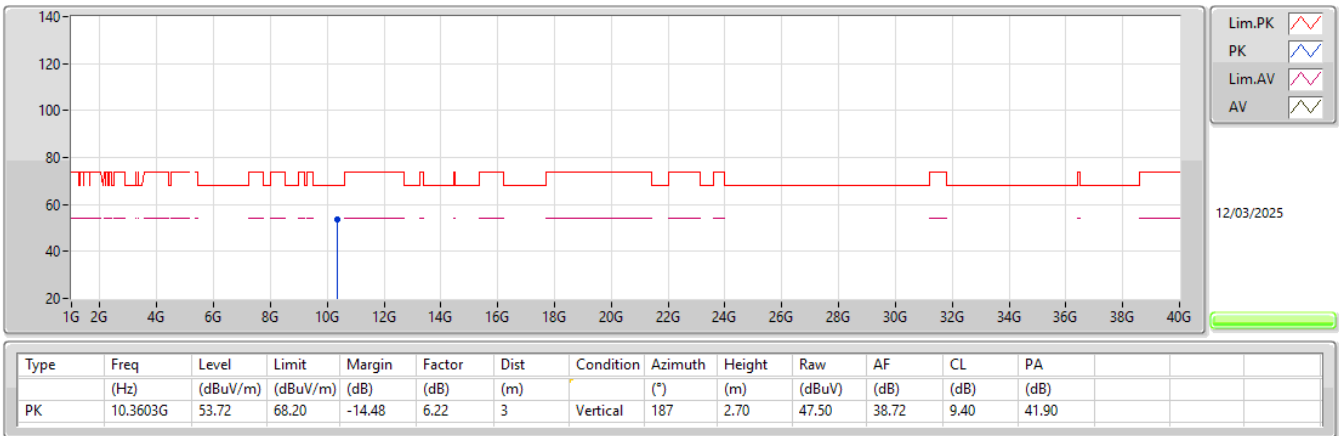
5.15-5.25GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

5180MHz_TX



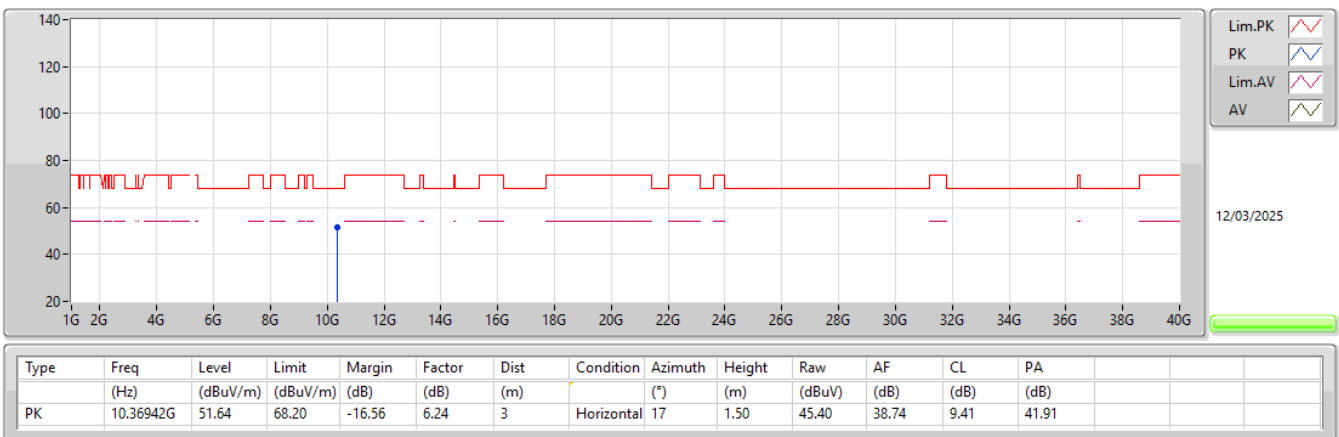
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5180MHz_TX



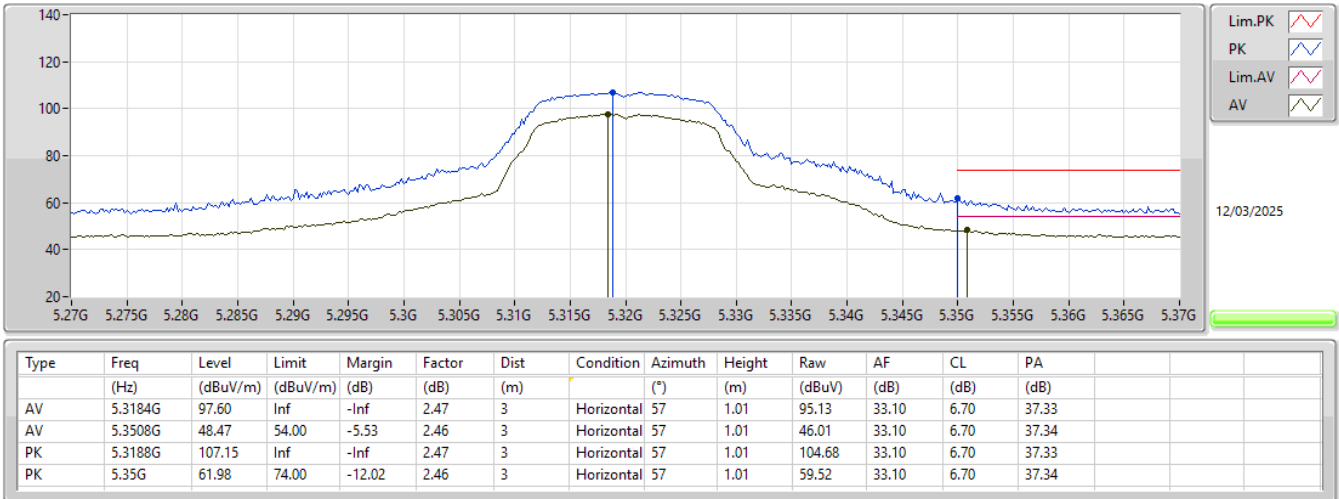
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5180MHz_TX



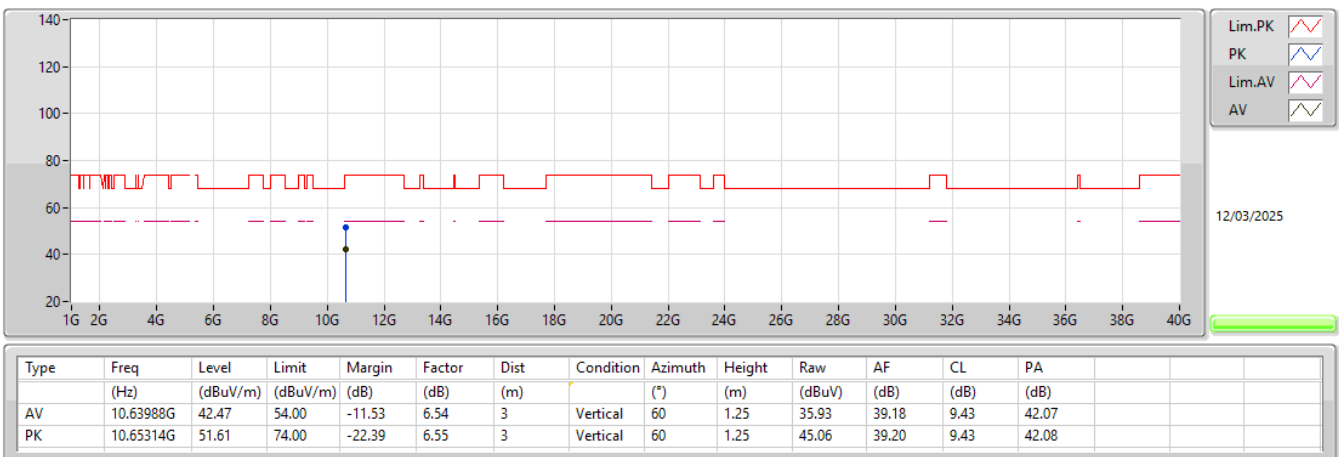
5.25-5.35GHz_802.11a_Nss1,(6Mbps)_1TX

5320MHz_TX



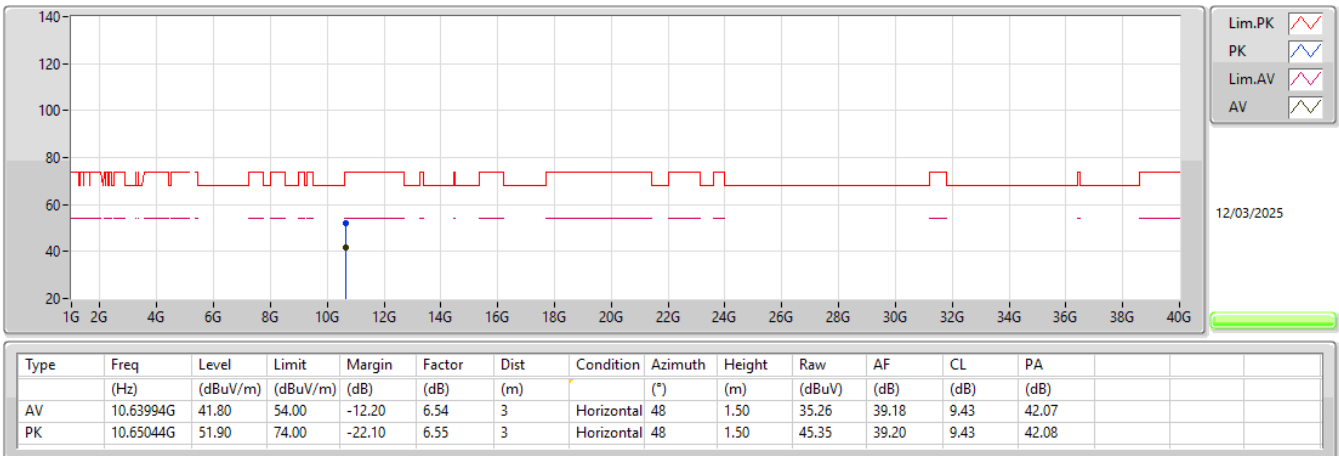
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5320MHz_TX



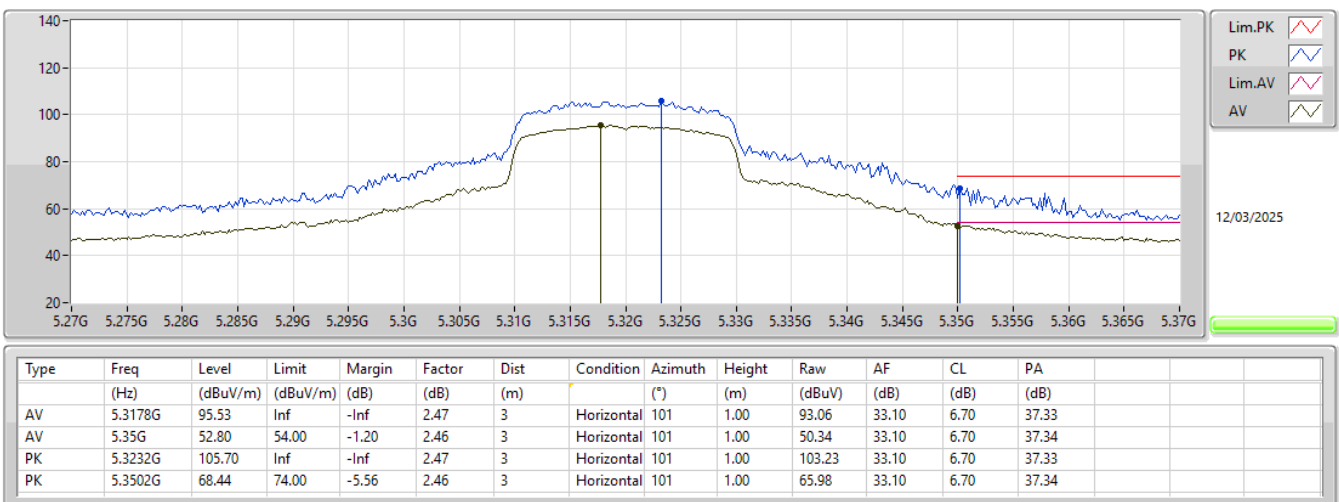
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5320MHz_TX



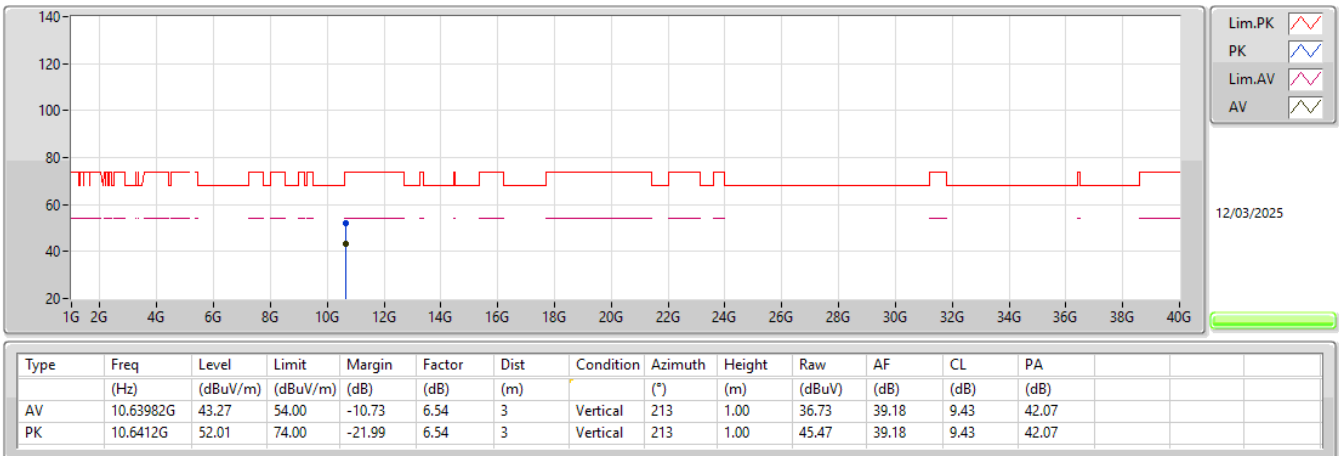
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5320MHz_TX



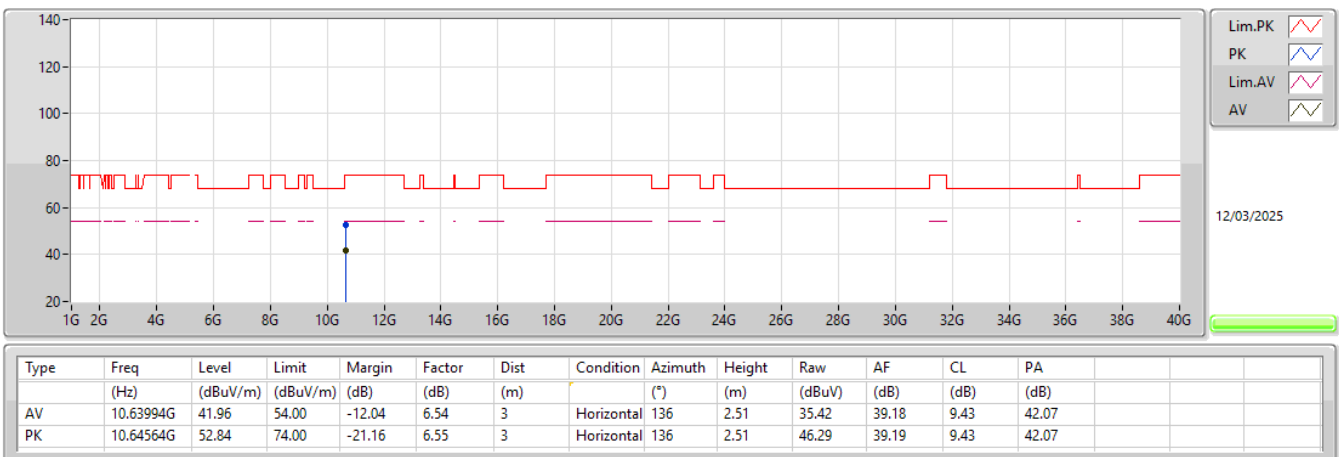
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5320MHz_TX



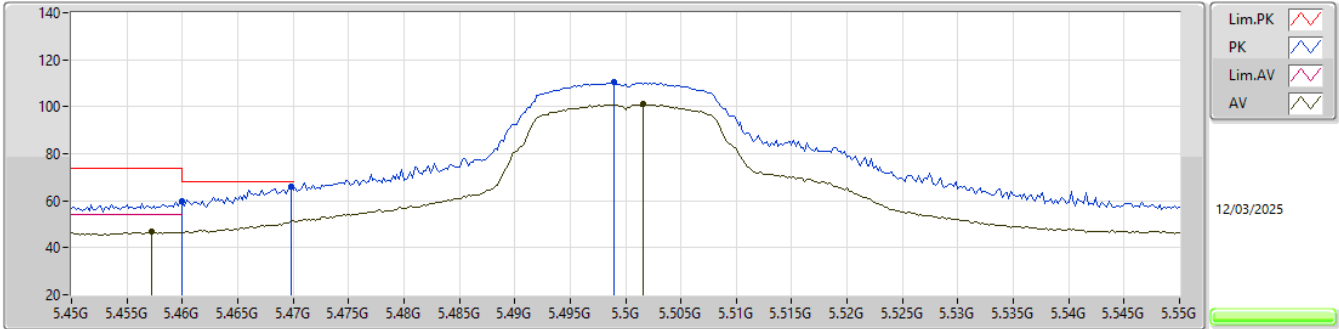
5.25-5.35GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5320MHz_TX



5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

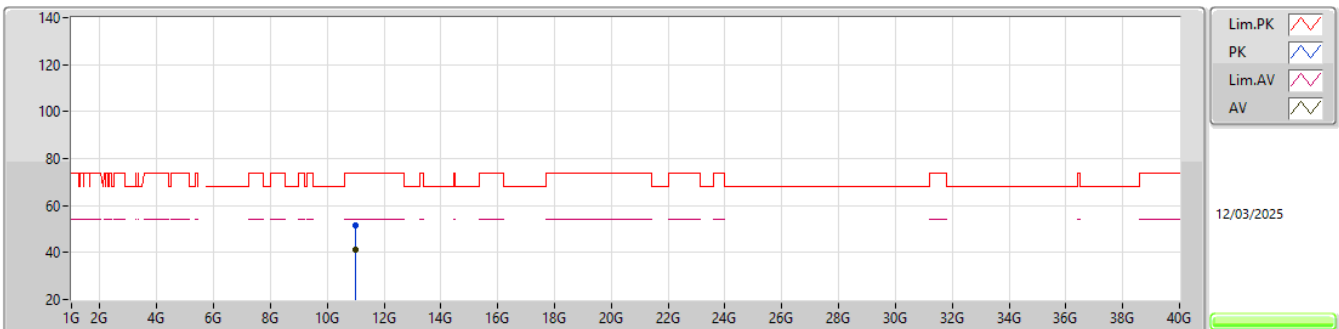
5500MHz_TX



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	5.4572G	46.98	54.00	-7.02	2.44	3	Horizontal	48	1.00	44.54	33.04	6.76	37.36				
AV	5.5016G	101.09	Inf	-Inf	2.73	3	Horizontal	48	1.00	98.36	33.30	6.80	37.37				
PK	5.46G	59.62	74.00	-14.38	2.46	3	Horizontal	48	1.00	57.16	33.06	6.76	37.36				
PK	5.4698G	65.99	68.20	-2.21	2.53	3	Horizontal	48	1.00	63.46	33.12	6.77	37.36				
PK	5.499G	110.49	Inf	-Inf	2.72	3	Horizontal	48	1.00	107.77	33.29	6.80	37.37				

5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

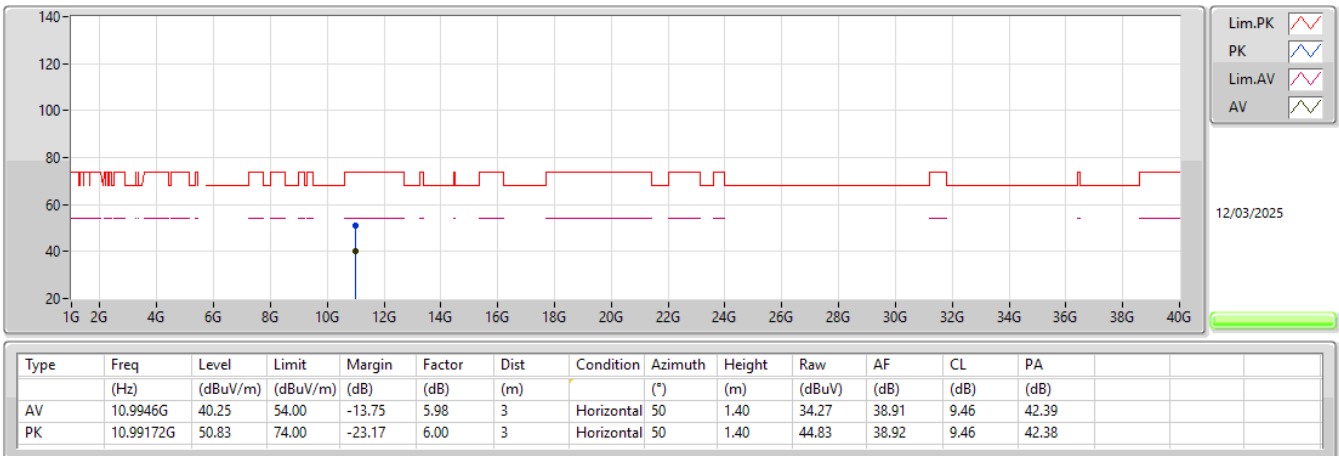
5500MHz_TX



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	10.9973G	41.04	54.00	-12.96	5.98	3	Vertical	49	1.62	35.06	38.91	9.46	42.39				
PK	11.00282G	51.78	74.00	-22.22	5.97	3	Vertical	49	1.62	45.81	38.89	9.47	42.39				

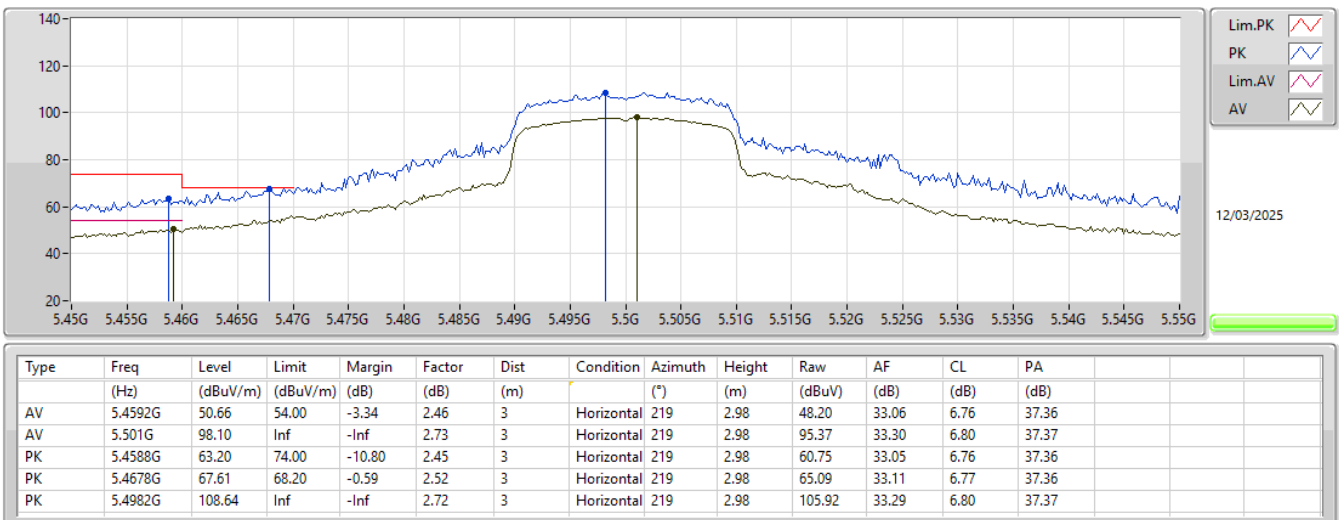
5.47-5.725GHz_802.11a_Nss1,(6Mbps)_1TX

5500MHz_TX



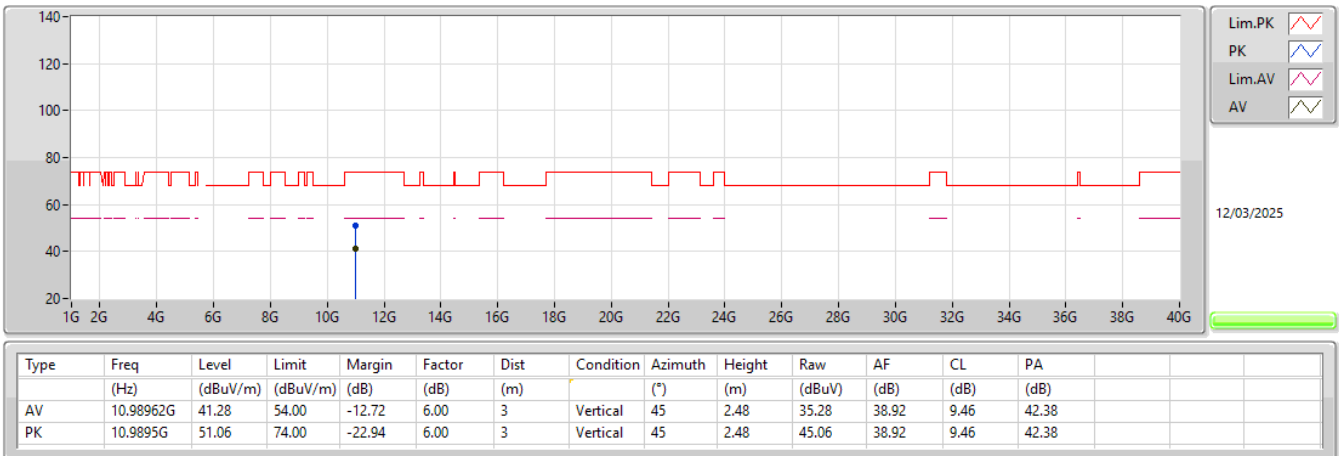
5.47-5.725GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

5500MHz_TX



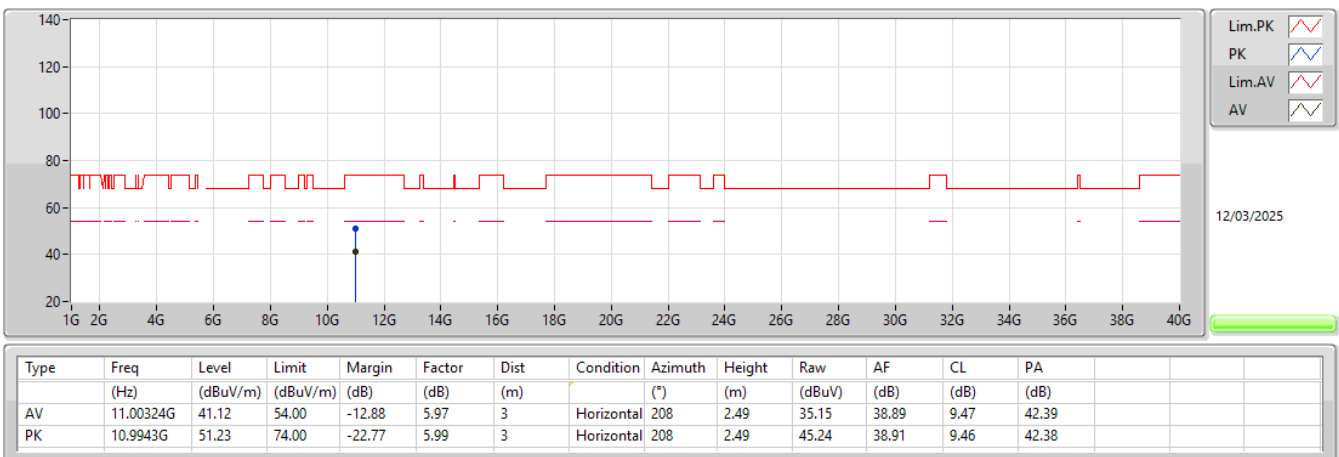
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5500MHz_TX



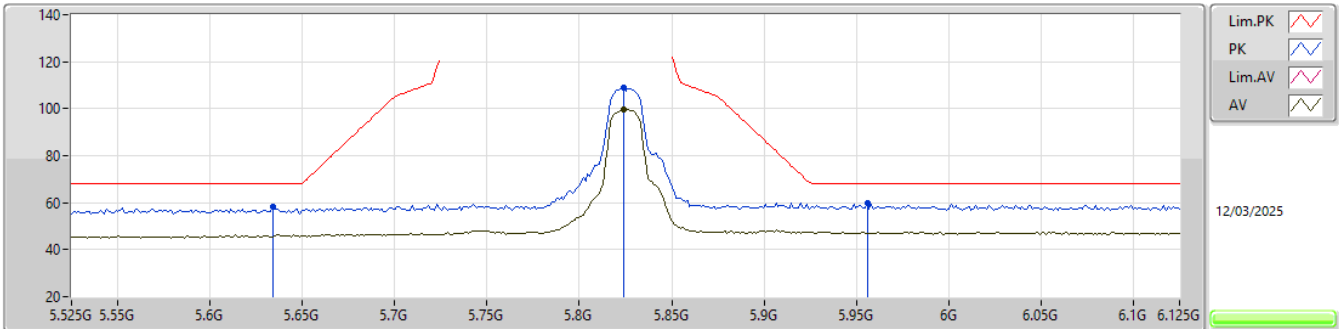
5.47-5.725GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5500MHz_TX



5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

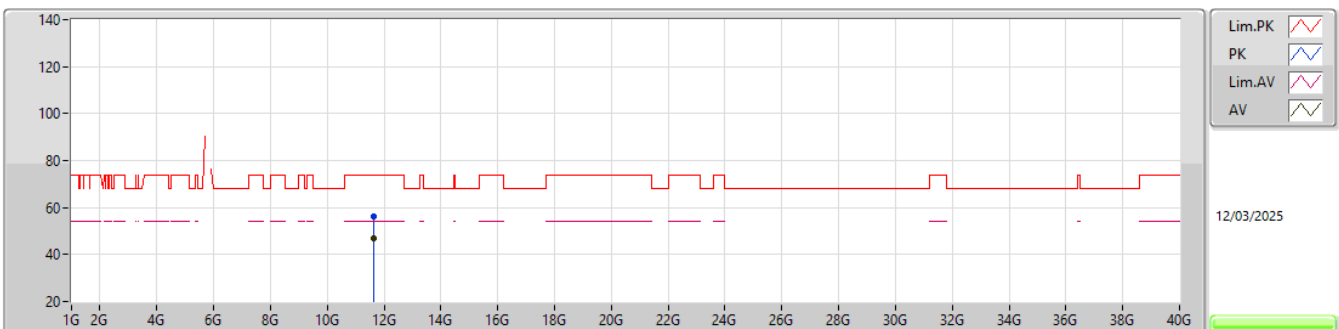
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	5.8238G	99.81	Inf	-Inf	4.20	3	Horizontal	51	1.00	95.61	34.25	7.18	37.23
PK	5.6342G	58.08	68.20	-10.12	3.00	3	Horizontal	51	1.00	55.08	33.34	6.97	37.31
PK	5.8238G	108.73	Inf	-Inf	4.20	3	Horizontal	51	1.00	104.53	34.25	7.18	37.23
PK	5.9558G	59.88	68.20	-8.32	3.76	3	Horizontal	51	1.00	56.12	34.40	6.54	37.18

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

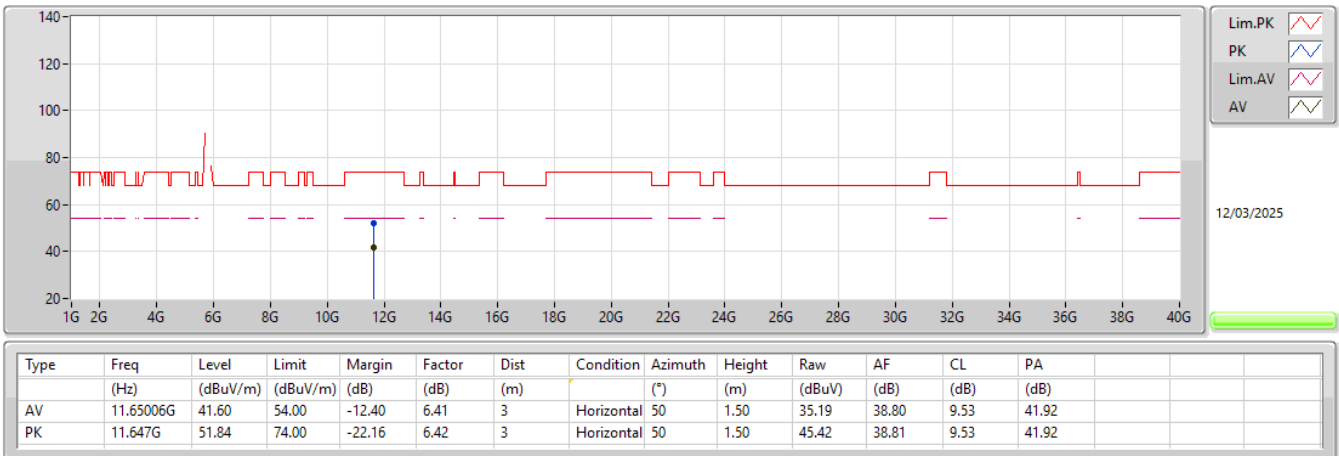
5825MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	11.64982G	46.69	54.00	-7.31	6.41	3	Vertical	50	1.27	40.28	38.80	9.53	41.92
PK	11.64868G	56.16	74.00	-17.84	6.41	3	Vertical	50	1.27	49.75	38.80	9.53	41.92

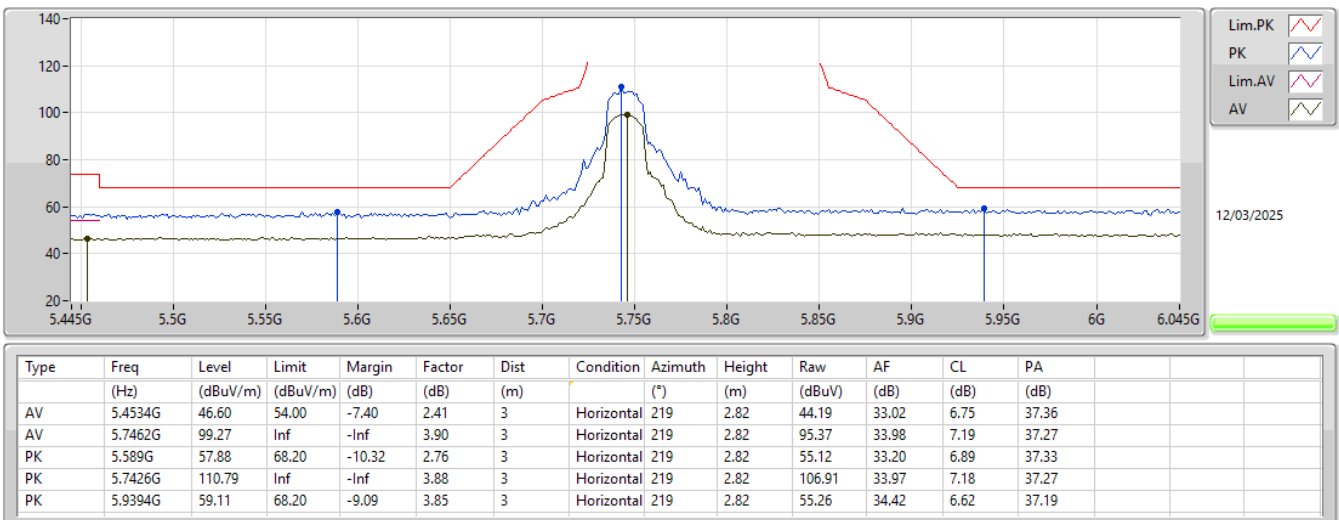
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX



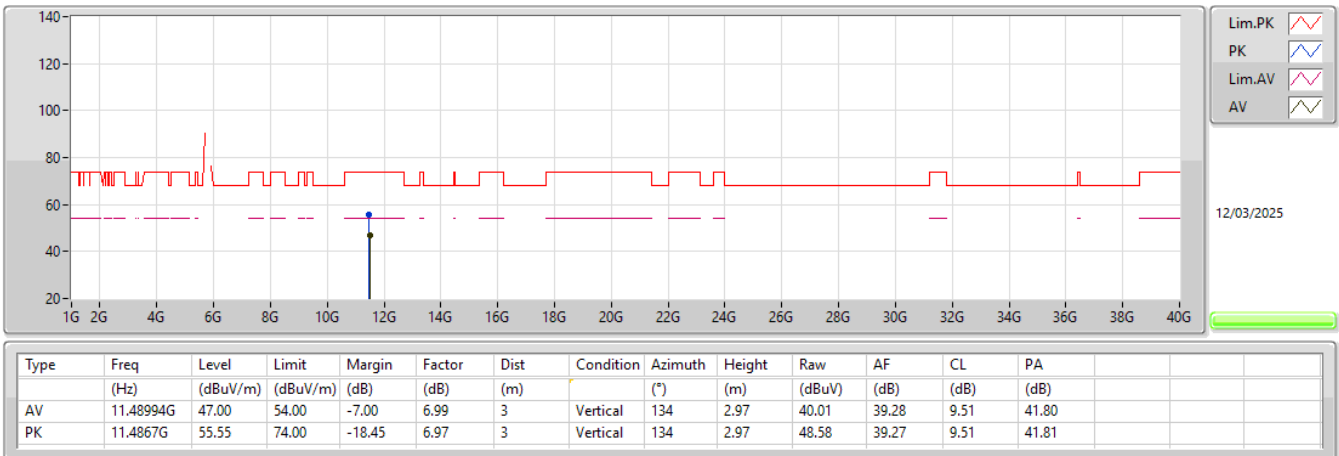
5.725-5.85GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

5745MHz_TX



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5745MHz_TX



5.725-5.85GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

5745MHz_TX

