Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	Z8H89FT0074
Equipment	:	ePMP 5GHz Force 4525 SM
Brand Name	:	Cambium Networks
Model Name	:	ePMP 5GHz Force 4525 SM
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 Sep. 09, 2022, and testing was started from Sep. 09, 2022 and completed on Oct. 04, 2022. 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.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR231713-02	01	Initial issue of report	Feb. 05, 2024

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	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5250-5350	a, n (HT20), ac (VHT20), ax (HEW20)	5260-5320	52-64 [4]
5470-5725		5500-5700	100-140 [8]
5250-5350	n (HT40), ac (VHT40), ax (HEW40)	5270-5310	54-62 [2]
5470-5725		5510-5670	102-134 [3]
5250-5350	ac (VHT80), ax (HEW80)	5290	58 [1]
5470-5725		5530	106 [1]

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11a	20	2TX
5.25-5.35GHz	802.11n HT20	20	2TX
5.25-5.35GHz	802.11ac VHT20	20	2TX
5.25-5.35GHz	802.11ax HEW20	20	2TX
5.25-5.35GHz	802.11n HT40	40	2TX
5.25-5.35GHz	802.11ac VHT40	40	2TX
5.25-5.35GHz	802.11ax HEW40	40	2TX
5.25-5.35GHz	802.11ac VHT80	80	2TX
5.25-5.35GHz	802.11ax HEW80	80	2TX
5.47-5.725GHz	802.11a	20	2TX
5.47-5.725GHz	802.11n HT20	20	2TX
5.47-5.725GHz	802.11ac VHT20	20	2TX
5.47-5.725GHz	802.11ax HEW20	20	2TX
5.47-5.725GHz	802.11n HT40	40	2TX
5.47-5.725GHz	802.11ac VHT40	40	2TX
5.47-5.725GHz	802.11ax HEW40	40	2TX
5.47-5.725GHz	802.11ac VHT80	80	2TX
5.47-5.725GHz	802.11ax HEW80	80	2TX

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

1.1.2 Antenna Information

Set	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Support Band
1	1	Cambium	ePMP 5GHz Force 4525 SM	Dish Antenna	N/A	24.57	UNII 1~3
	2						
2	1	Cambium	ePMP 5GHz Force 4525 SM	Dipole Antenna	N/A	2	UNII 1, 3
	2						

Set.	Point-to-Multipoint	Point-to-Point
1	No	Yes
2	Yes	No

Note1: The above information was declared by manufacturer.

Note2: Directional gain information

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

Ex.

Directional Gain (NSS1) formula : $Directional Gain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{sp}}\left[\sum_{k=1}^{N_{ant}} g_{j,k}\right]^2}{N_{ANT}}\right]$

NSS1(g1,1) = $10^{G1/20}$; NSS1(g1,2)= $10^{G2/20}$;

gj,k =(Nss1(g1,1) + Nss1(g1,2))^2

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2))^2 / N_{ANT}] => 10 log[($10^{G1/20}$ + $10^{G2/20}$)^2 / N_{ANT}]

Where ;

Dipole

5G G1= 2 dBi ;5G G2= 2 dBi ;DG= 5.01dBi

Printed Cross-Polarized Antenna

5G G1= 24.57 dBi ;5G G2= 24.57 dBi ;DG= 24.57dBi

For 5GHz function:
For IEEE 802.11a/n/ac/ax mode (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) ≥ 1/T
802.11a	0.64	1.94	1.978m	1k
802.11ax HEW20	0.934	0.3	5.455m	300
802.11ax HEW40	0.93	0.32	5.453m	300
802.11ax HEW80	0.933	0.3	5.453m	300

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Weather Band	☐	With 5600~5650MHz	☒	Without 5600~5650MHz
Function	☒	Outdoor P2M for antenna set 2	☐	Indoor P2M
	☒	Fixed P2P for antenna set 1	☐	Client
	☒	Point-to-multipoint for antenna set 2	☐	Point-to-point
TPC Function	☒	With TPC	☐	Without TPC
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QSPR V5.0-00199			

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: FR231713-01

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

Modifications	Performance Checking
Add UNII 2A and UNII 2C (5250~5350MHz and 5470~5725MHz) in antenna set 1 for this device.	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 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) 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	Lance Wu	23.6-24.5 / 62-67	Sep. 14, 2022~Oct. 04, 2022
Radiated	03CH02-CB	Gordon Humg	20-21 / 55-58	Sep. 09, 2022 ~ Sep. 13, 2022

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
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_2TX	-
5260MHz	-0.5
5300MHz	1.5
5320MHz	2
5500MHz	1.5
5580MHz	1
5700MHz	0.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
5260MHz	0.5
5300MHz	2.5
5320MHz	3
5500MHz	2.5
5580MHz	2.5
5700MHz	1.5
802.11ax HEW40_Nss1,(MCS0)_2TX	-
5270MHz	3
5310MHz	2.5
5510MHz	3.5
5550MHz	3.5
5670MHz	3
802.11ax HEW80_Nss1,(MCS0)_2TX	-
5290MHz	2.5
5530MHz	3

Note:
- Evaluated HEW20/HEW40/HEW80 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80 mode are the same or lower than HEW20/HEW40/HEW80.

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
1	EUT + Ant. Set 1

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
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found as below, thus the measurement will follow this same test configuration.
1	EUT in X axis + Ant. Set 1

Note: The PoE below is for measurement only, would not be marketed.
The PoE information as below:

Support Unit	Brand Name	Model Number
PoE	CWT	P015U06

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

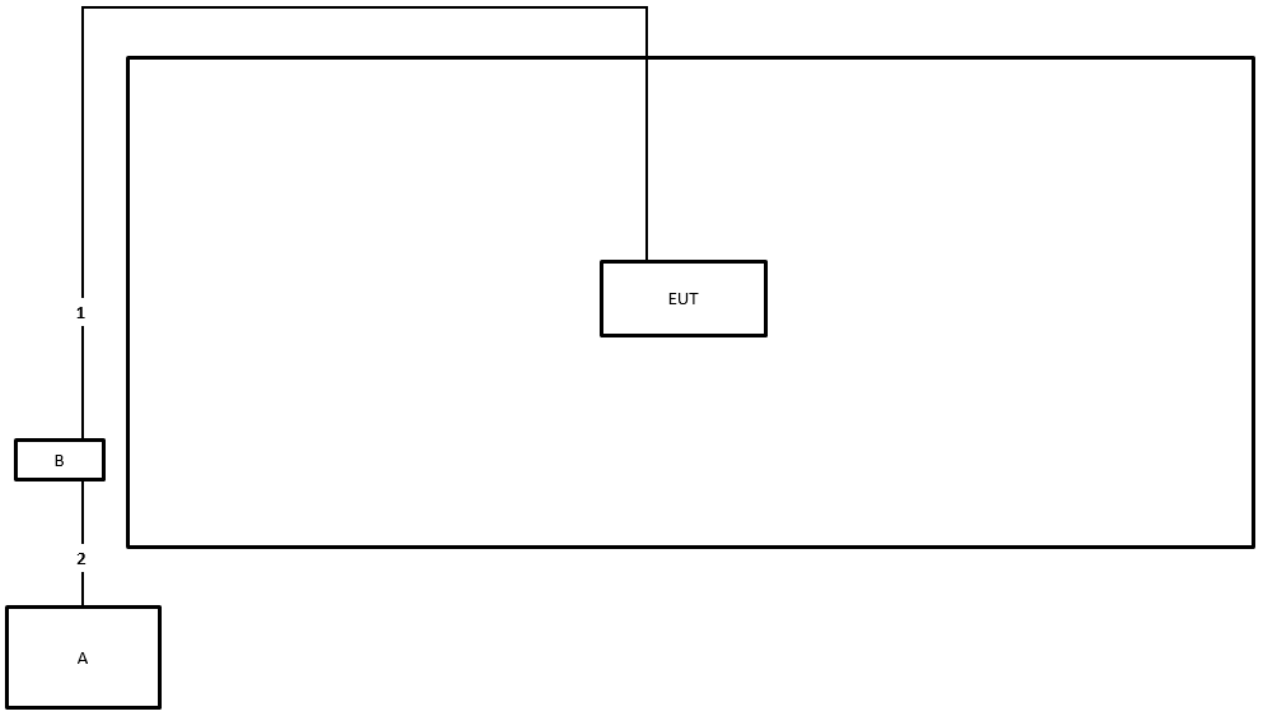
N/A

2.5 Support Equipment

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	PoE	CWT	P015U06	N/A

2.6 Test Setup Diagram

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1m

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.

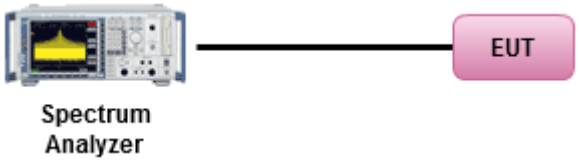
3.1.2 Measuring Instruments

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

Emission Bandwidth


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, 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:
	▪ 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (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

Conducted Measurement (Power Meter)


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° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	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

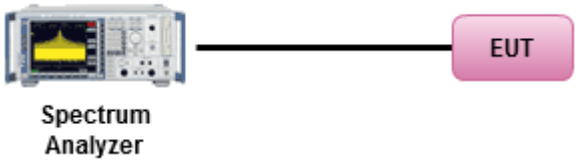
Refer a test equipment and calibration data table in this test report.

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: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (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.

Test Method	
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

Conducted Measurement


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

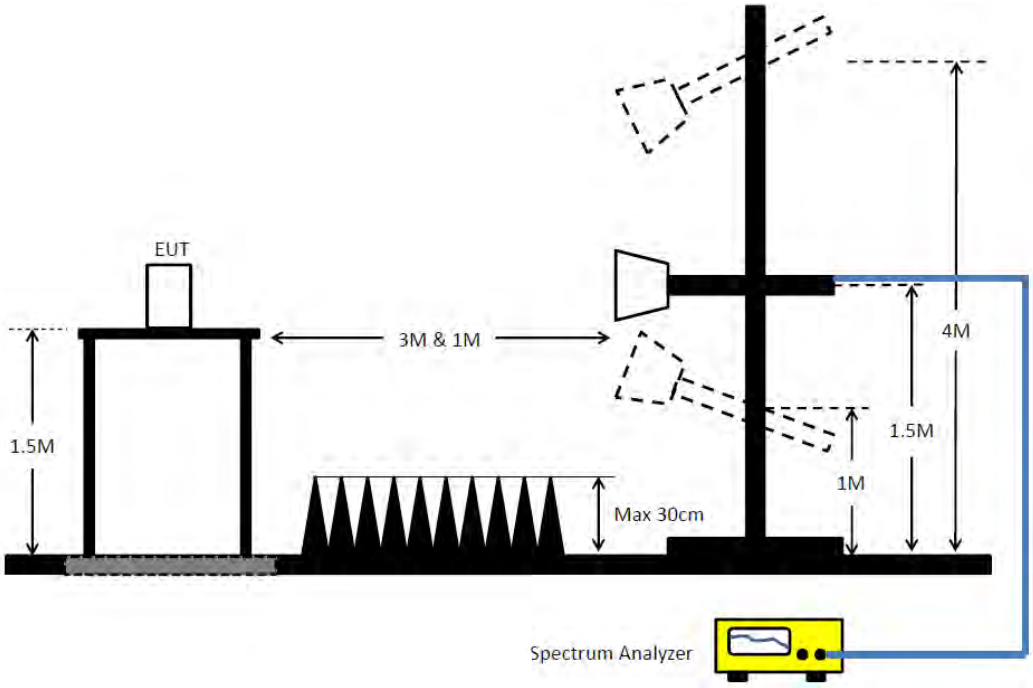
Refer a test equipment and calibration data table in this test report.

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 ≥ 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 ≥ 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.	
		☐ Refer as 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.			

3.4.4 Test Setup

Transmitter Radiated Unwanted Emissions
Above 1GHz



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 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.4.7 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	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	May 23, 2022	May 22, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

N.C.R. means Non-Calibration required.

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	19.95M	16.432M	16M4D1D	19.44M	16.273M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.03M	18.921M	18M9D1D	20.79M	18.891M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.44M	37.901M	37M9D1D	40.08M	37.781M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.36M	77.001M	77M0D1D	81.36M	76.882M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.1M	16.492M	16M5D1D	19.05M	16.372M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.06M	18.951M	19M0D1D	20.73M	18.771M
802.11ax HEW40_Nss1,(MCS0)_2TX	40.26M	37.901M	37M9D1D	39.96M	37.661M
802.11ax HEW80_Nss1,(MCS0)_2TX	81.48M	77.001M	77M0D1D	81.24M	77.001M

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

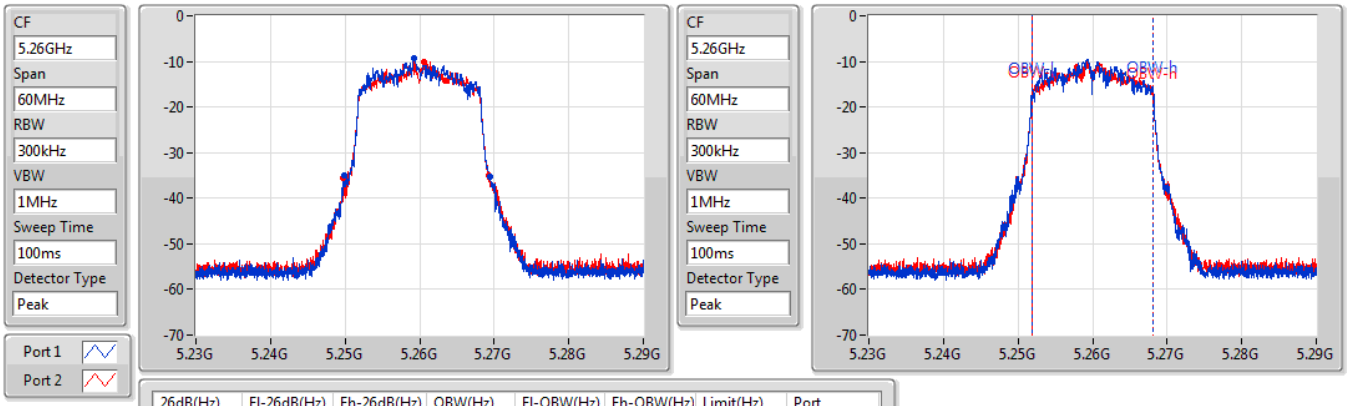
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	19.53M	16.323M	19.5M	16.273M
5300MHz	Pass	Inf	19.44M	16.372M	19.83M	16.402M
5320MHz	Pass	Inf	19.65M	16.402M	19.95M	16.432M
5500MHz	Pass	Inf	20.1M	16.372M	19.05M	16.432M
5580MHz	Pass	Inf	19.68M	16.402M	19.26M	16.492M
5700MHz	Pass	Inf	19.05M	16.432M	19.77M	16.432M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	Inf	20.85M	18.891M	21.03M	18.921M
5300MHz	Pass	Inf	20.88M	18.891M	21.03M	18.891M
5320MHz	Pass	Inf	20.79M	18.891M	21M	18.891M
5500MHz	Pass	Inf	21.06M	18.951M	20.79M	18.831M
5580MHz	Pass	Inf	20.91M	18.891M	20.73M	18.831M
5700MHz	Pass	Inf	20.79M	18.771M	20.91M	18.861M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	Inf	40.08M	37.841M	40.44M	37.901M
5310MHz	Pass	Inf	40.26M	37.781M	40.08M	37.841M
5510MHz	Pass	Inf	40.26M	37.901M	39.96M	37.661M
5550MHz	Pass	Inf	40.26M	37.841M	40.14M	37.781M
5670MHz	Pass	Inf	40.26M	37.661M	40.26M	37.721M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	Inf	81.36M	77.001M	81.36M	76.882M
5530MHz	Pass	Inf	81.24M	77.001M	81.48M	77.001M

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

802.11a_Nss1,(6Mbps)_2TX EBW

5260MHz

30/09/2022

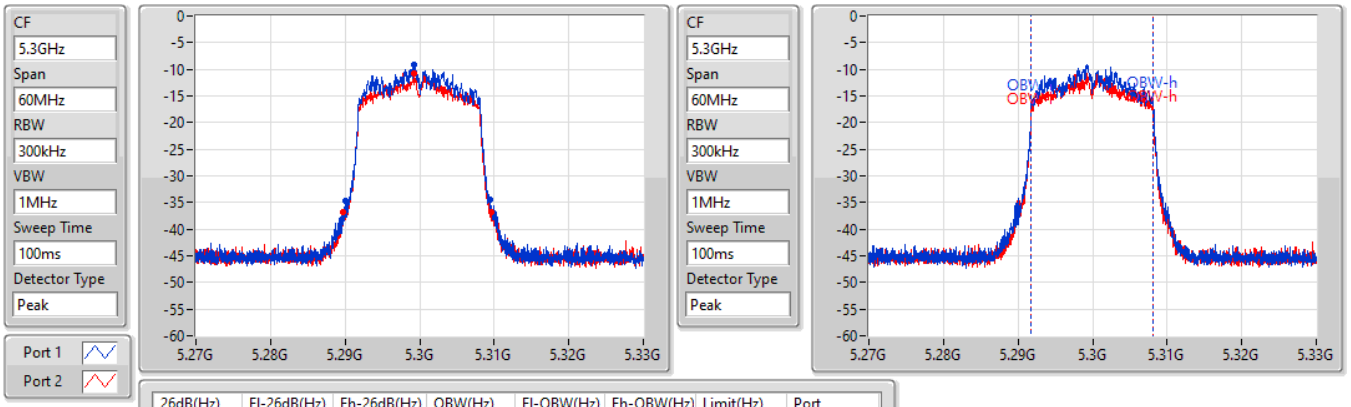


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.53M	5.24992G	5.26945G	16.323M	5.251837G	5.268161G	Inf	1
19.5M	5.2498G	5.2693G	16.273M	5.251841G	5.268115G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5300MHz

14/09/2022

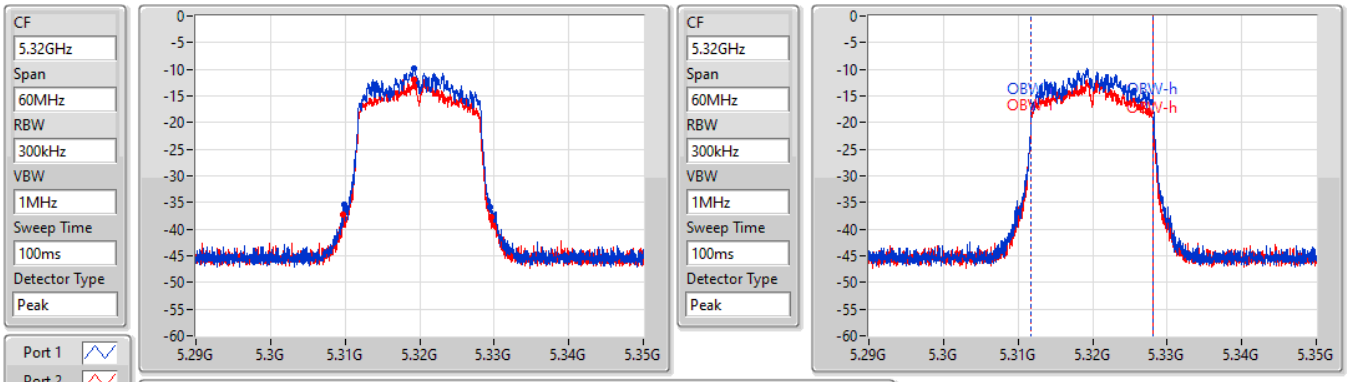


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.44M	5.29001G	5.30945G	16.372M	5.291784G	5.308156G	Inf	1
19.83M	5.28971G	5.30954G	16.402M	5.291754G	5.308156G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5320MHz

14/09/2022

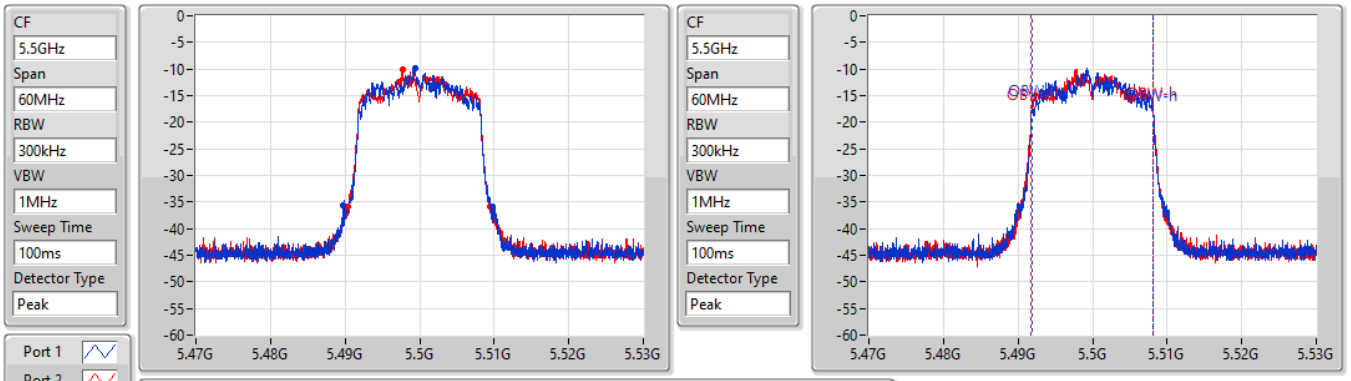


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.65M	5.30983G	5.32948G	16.402M	5.311784G	5.328186G	Inf	1
19.95M	5.30968G	5.32963G	16.432M	5.311724G	5.328156G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5500MHz

14/09/2022

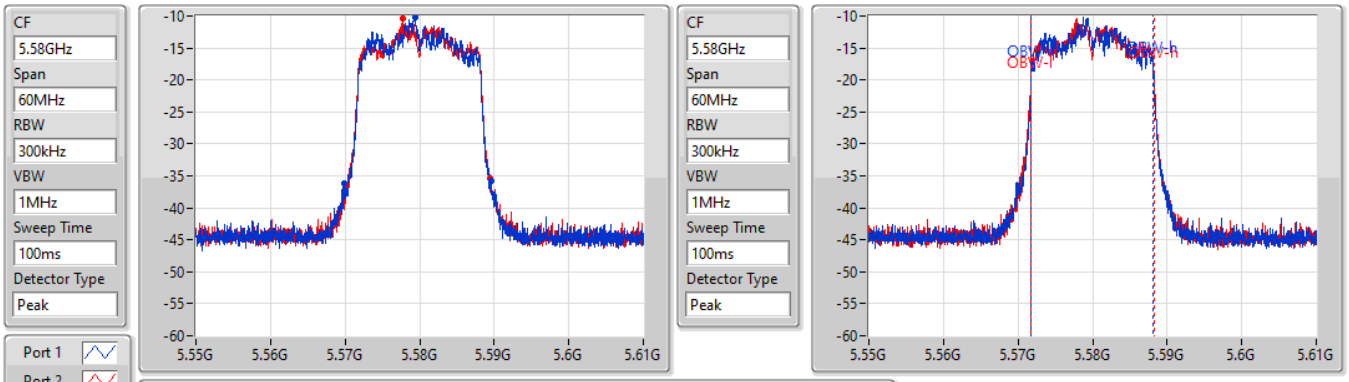


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.1M	5.48965G	5.50975G	16.372M	5.491814G	5.508186G	Inf	1
19.05M	5.49043G	5.50948G	16.432M	5.491754G	5.508186G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5580MHz

14/09/2022

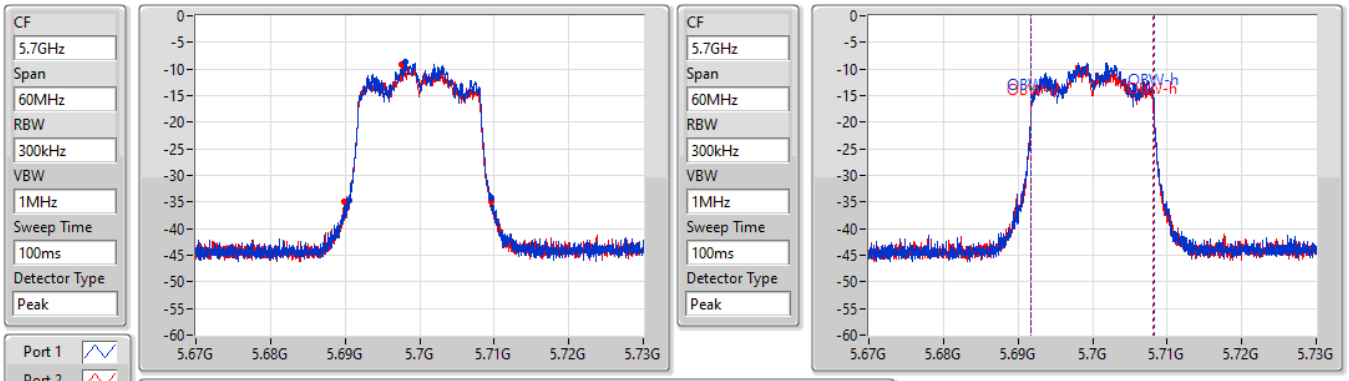


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.68M	5.56992G	5.5896G	16.402M	5.571784G	5.588186G	Inf	1
19.26M	5.57022G	5.58948G	16.492M	5.571724G	5.588216G	Inf	2

802.11a_Nss1,(6Mbps)_2TX EBW

5700MHz

14/09/2022

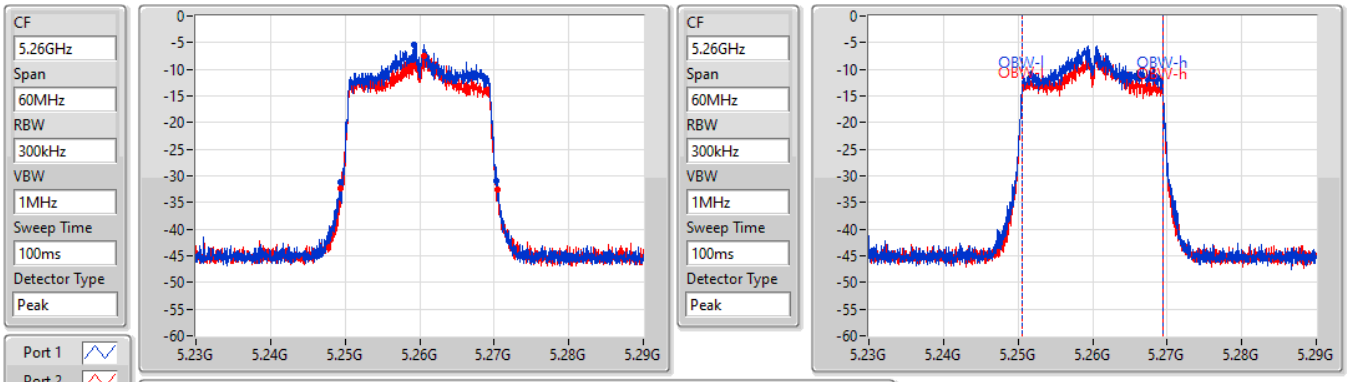


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.05M	5.69052G	5.70957G	16.432M	5.691784G	5.708216G	Inf	1
19.77M	5.68983G	5.7096G	16.432M	5.691754G	5.708186G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5260MHz

14/09/2022

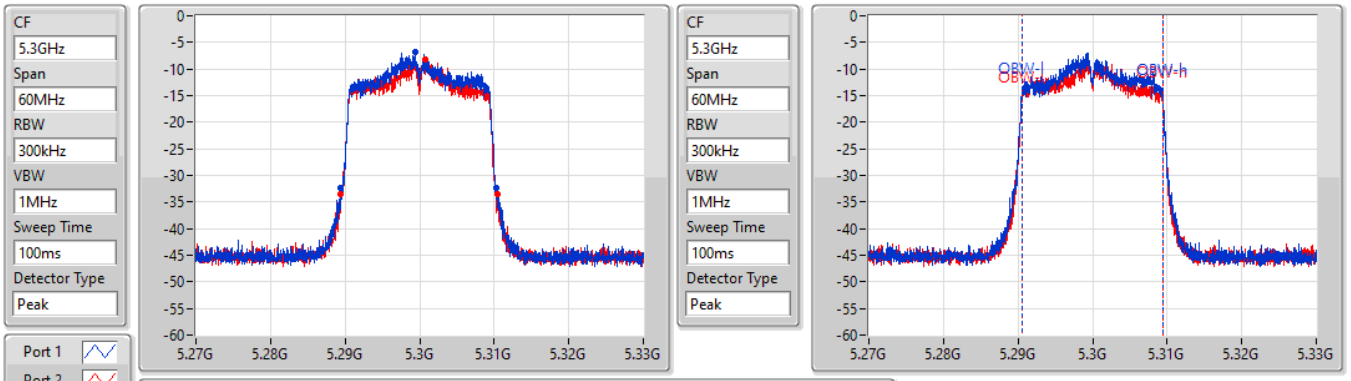


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.85M	5.24947G	5.27032G	18.891M	5.250525G	5.269415G	Inf	1
21.03M	5.24938G	5.27041G	18.921M	5.250495G	5.269415G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5300MHz

14/09/2022

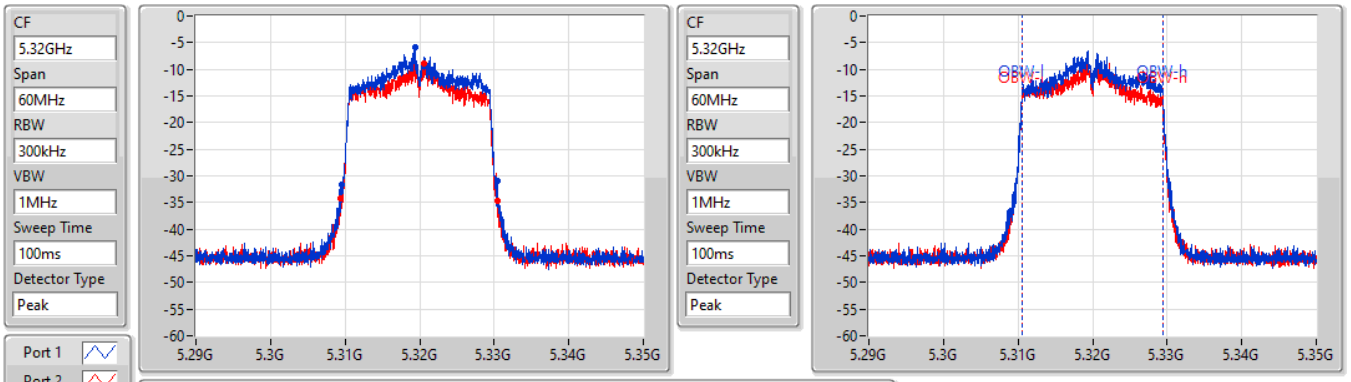


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.88M	5.28941G	5.31029G	18.891M	5.290525G	5.309415G	Inf	1
21.03M	5.28941G	5.31044G	18.891M	5.290495G	5.309385G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5320MHz

14/09/2022

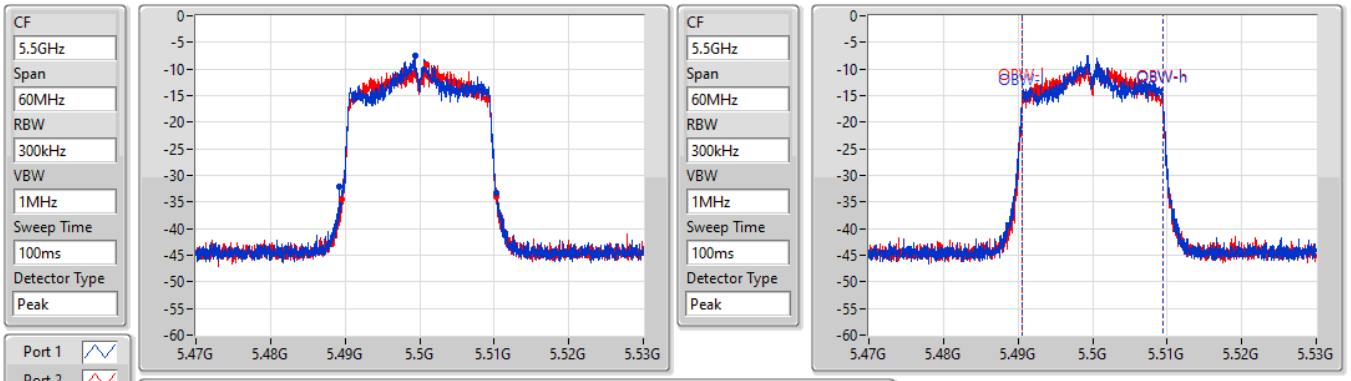


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.79M	5.30959G	5.33038G	18.891M	5.310525G	5.329415G	Inf	1
21M	5.30938G	5.33038G	18.891M	5.310495G	5.329385G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5500MHz

14/09/2022

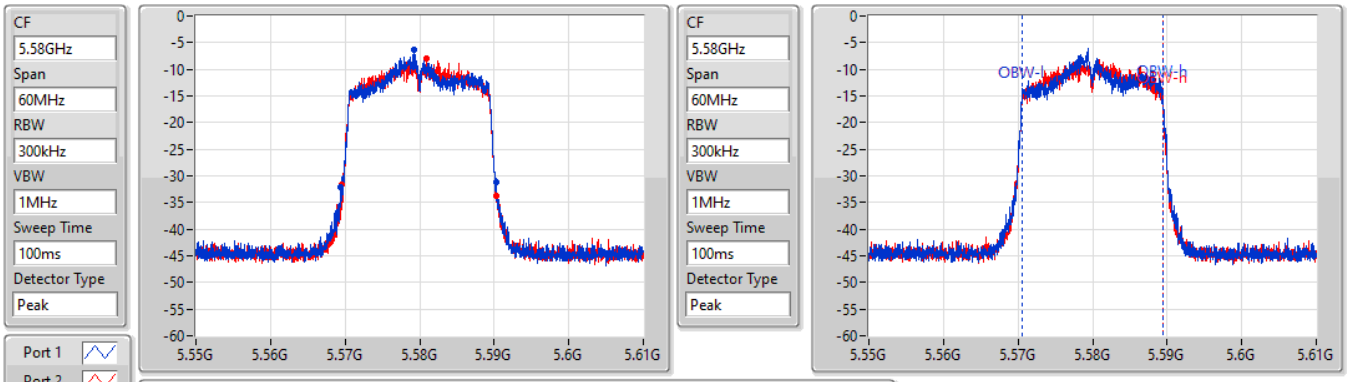


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.06M	5.48923G	5.51029G	18.951M	5.490495G	5.509445G	Inf	1
20.79M	5.48953G	5.51032G	18.831M	5.490555G	5.509385G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5580MHz

14/09/2022

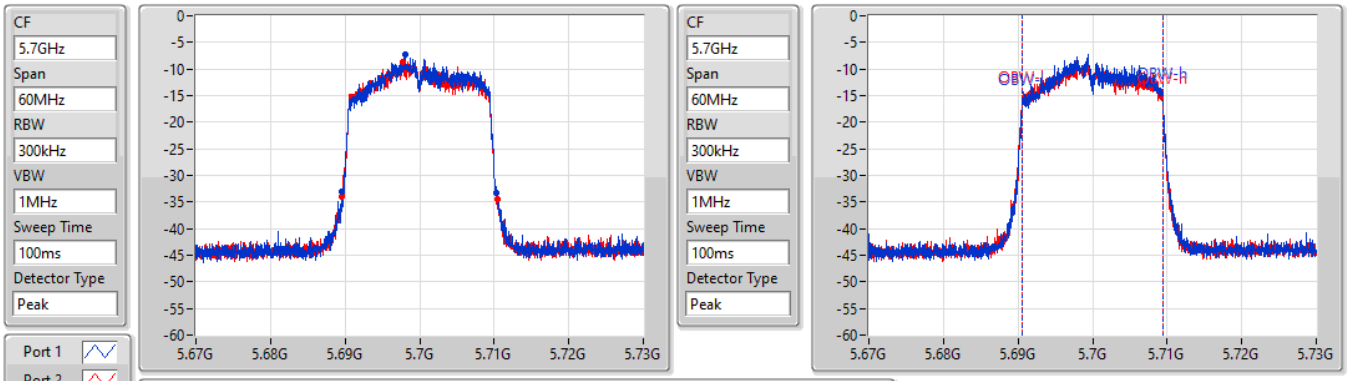


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.91M	5.56941G	5.59032G	18.891M	5.570525G	5.589415G	Inf	1
20.73M	5.56962G	5.59035G	18.831M	5.570555G	5.589385G	Inf	2

802.11ax HEW20_Nss1,(MCS0)_2TX EBW

5700MHz

14/09/2022

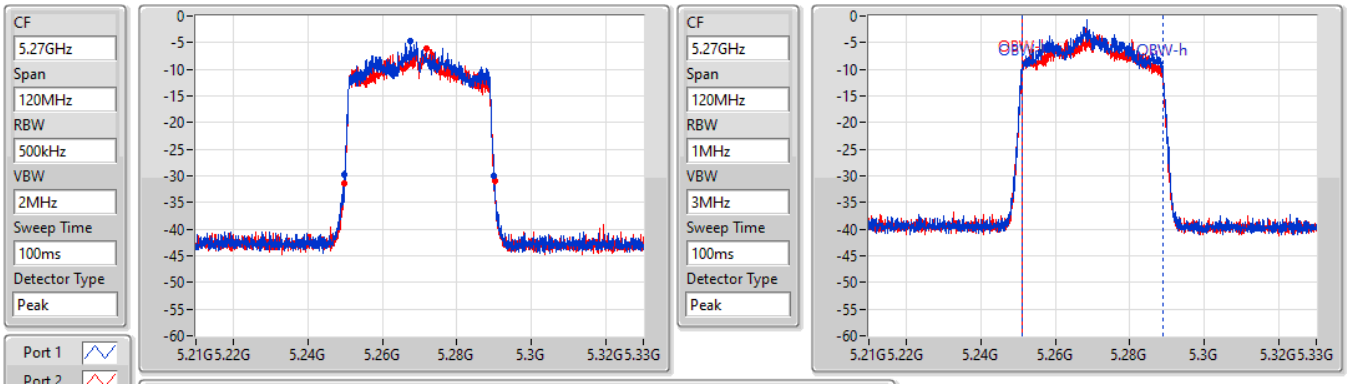


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.79M	5.68956G	5.71035G	18.771M	5.690615G	5.709385G	Inf	1
20.91M	5.68953G	5.71044G	18.861M	5.690525G	5.709385G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

5270MHz

14/09/2022

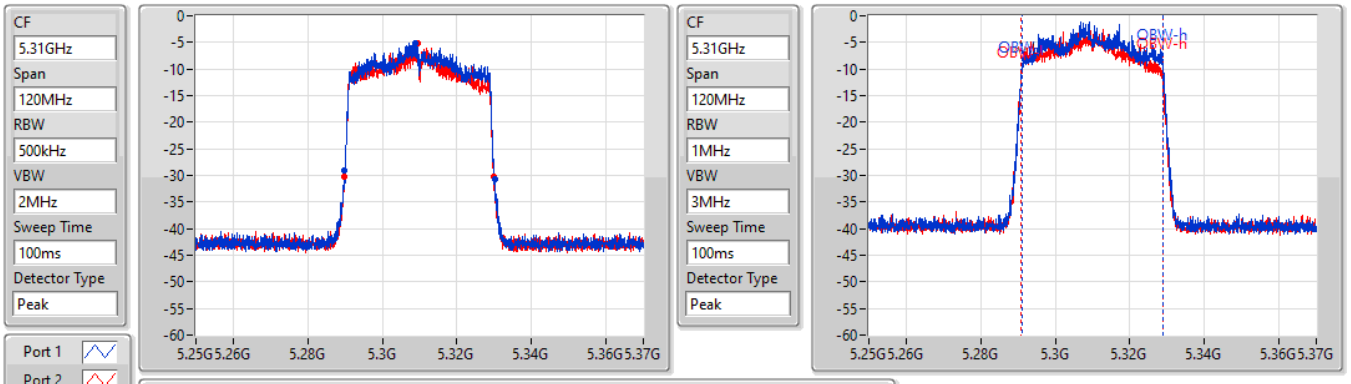


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.08M	5.2499G	5.28998G	37.841M	5.25099G	5.288831G	Inf	1
40.44M	5.24972G	5.29016G	37.901M	5.25099G	5.288891G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

5310MHz

14/09/2022

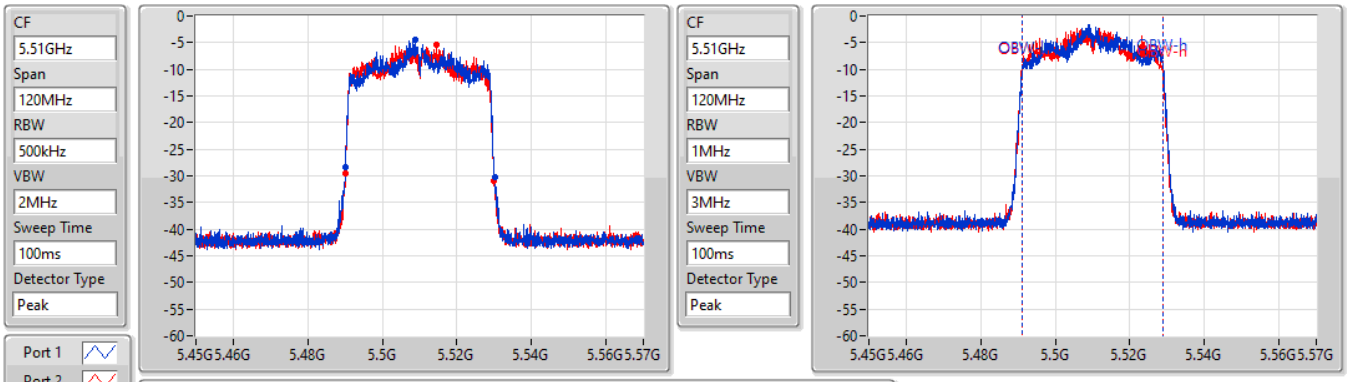


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.2899G	5.33016G	37.781M	5.291049G	5.328831G	Inf	1
40.08M	5.2899G	5.32998G	37.841M	5.29093G	5.328771G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

5510MHz

14/09/2022

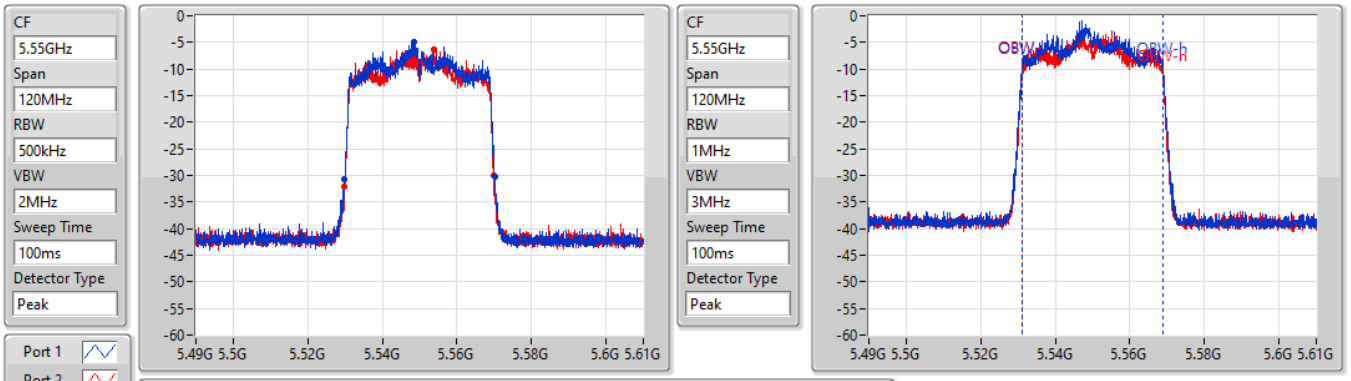


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.49008G	5.53034G	37.901M	5.491049G	5.528951G	Inf	1
39.96M	5.49002G	5.52998G	37.661M	5.491109G	5.528771G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

5550MHz

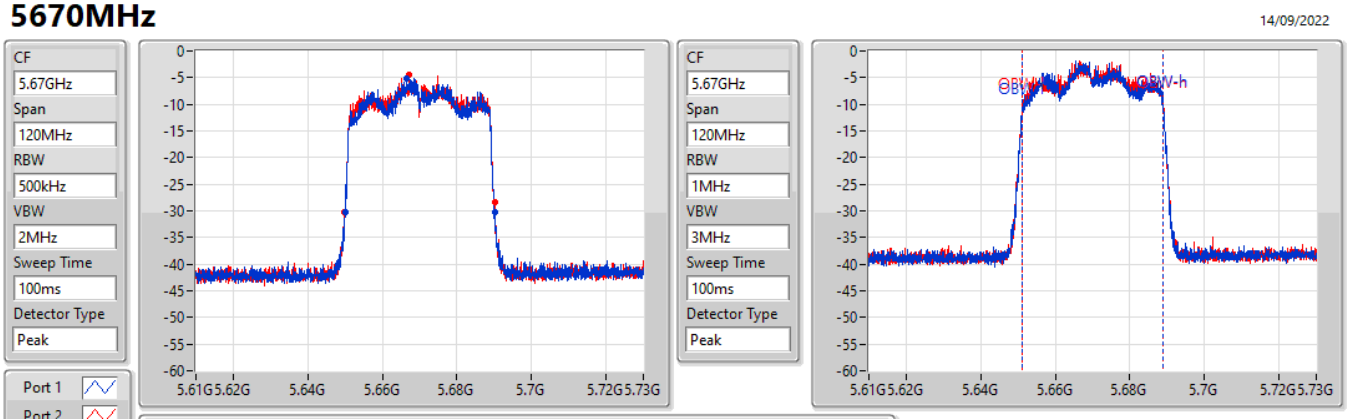
14/09/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.5299G	5.57016G	37.841M	5.531049G	5.568891G	Inf	1
40.14M	5.52978G	5.56992G	37.781M	5.531049G	5.568831G	Inf	2

802.11ax HEW40_Nss1,(MCS0)_2TX EBW

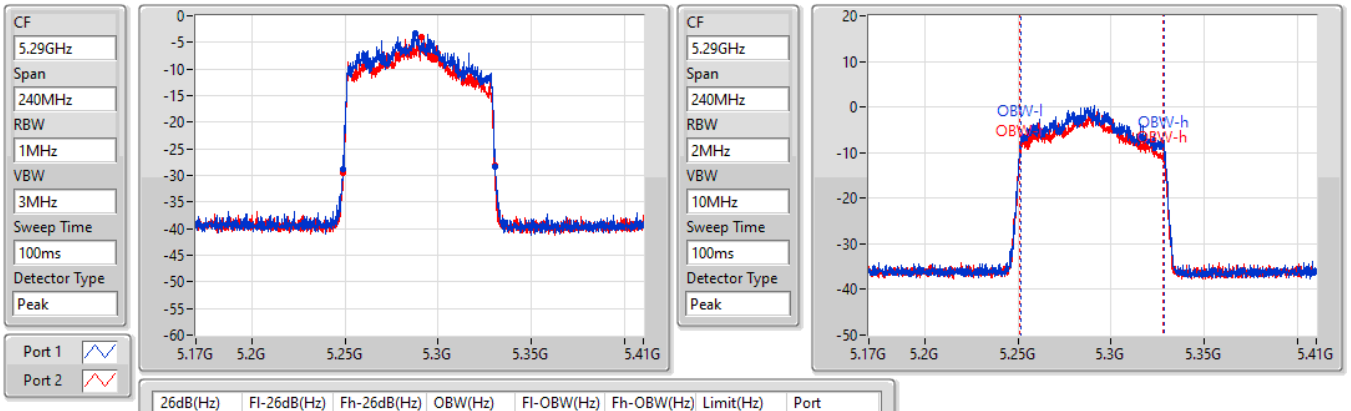
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.26M	5.64996G	5.69022G	37.661M	5.651229G	5.688891G	Inf	1
40.26M	5.6499G	5.69016G	37.721M	5.651169G	5.688891G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX EBW

5290MHz

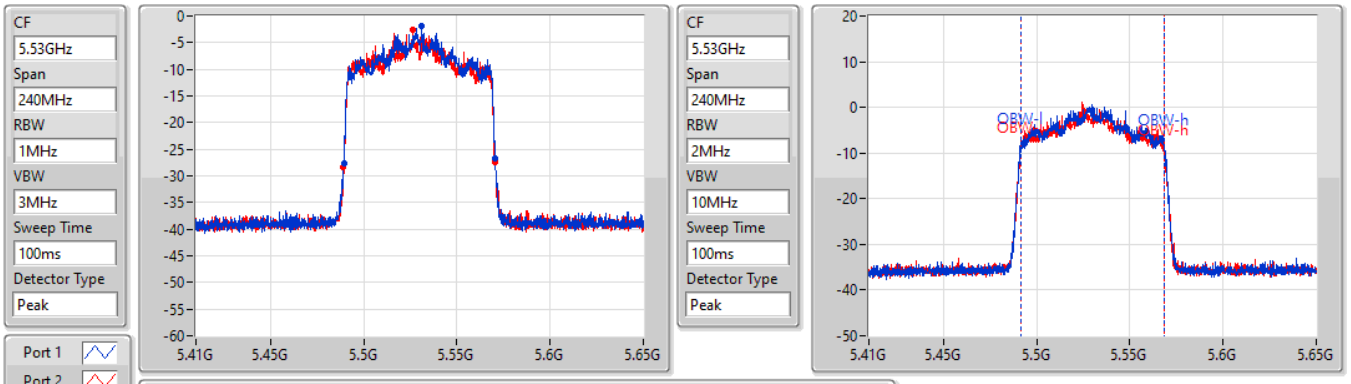


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.36M	5.24908G	5.33044G	77.001M	5.251259G	5.328261G	Inf	1
81.36M	5.24896G	5.33032G	76.882M	5.251139G	5.328021G	Inf	2

802.11ax HEW80_Nss1,(MCS0)_2TX **EBW**

5530MHz

14/09/2022



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.24M	5.48932G	5.57056G	77.001M	5.491499G	5.568501G	Inf	1
81.48M	5.4892G	5.57068G	77.001M	5.491379G	5.568381G	Inf	2

Summary

Mode	Total Power (dBm)	Total Power (W)
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	3.48	0.00223
802.11ax HEW20_Nss1,(MCS0)_2TX	4.29	0.00269
802.11ax HEW40_Nss1,(MCS0)_2TX	5.32	0.00340
802.11ax HEW80_Nss1,(MCS0)_2TX	5.02	0.00318
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	3.43	0.00220
802.11ax HEW20_Nss1,(MCS0)_2TX	4.51	0.00282
802.11ax HEW40_Nss1,(MCS0)_2TX	5.38	0.00345
802.11ax HEW80_Nss1,(MCS0)_2TX	5.16	0.00328

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	24.57	0.45	-0.87	2.85	5.33
5300MHz	Pass	24.57	0.87	0.02	3.48	5.32
5320MHz	Pass	24.57	1.02	-0.56	3.31	5.36
5500MHz	Pass	24.57	0.11	0.32	3.23	5.23
5580MHz	Pass	24.57	0.41	0.37	3.40	5.28
5700MHz	Pass	24.57	0.58	0.25	3.43	5.23
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	24.57	1.48	0.21	3.90	5.41
5300MHz	Pass	24.57	1.85	0.63	4.29	5.41
5320MHz	Pass	24.57	1.64	0.37	4.06	5.41
5500MHz	Pass	24.57	1.37	1.52	4.46	5.41
5580MHz	Pass	24.57	1.48	1.51	4.51	5.41
5700MHz	Pass	24.57	1.37	1.28	4.34	5.41
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	24.57	2.63	1.96	5.32	5.41
5310MHz	Pass	24.57	2.56	1.87	5.24	5.41
5510MHz	Pass	24.57	2.42	2.31	5.38	5.41
5550MHz	Pass	24.57	1.96	1.95	4.97	5.41
5670MHz	Pass	24.57	2.25	2.45	5.36	5.41
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	24.57	2.52	1.42	5.02	5.41
5530MHz	Pass	24.57	2.34	1.95	5.16	5.41

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

Summary

Mode	PD (dBm/RBW)
5.25-5.35GHz	-
802.11a_Nss1,(6Mbps)_2TX	-7.58
802.11ax HEW20_Nss1,(MCS0)_2TX	-7.60
802.11ax HEW40_Nss1,(MCS0)_2TX	-9.02
802.11ax HEW80_Nss1,(MCS0)_2TX	-12.23
5.47-5.725GHz	-
802.11a_Nss1,(6Mbps)_2TX	-7.60
802.11ax HEW20_Nss1,(MCS0)_2TX	-7.64
802.11ax HEW40_Nss1,(MCS0)_2TX	-9.38
802.11ax HEW80_Nss1,(MCS0)_2TX	-12.09

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

Result

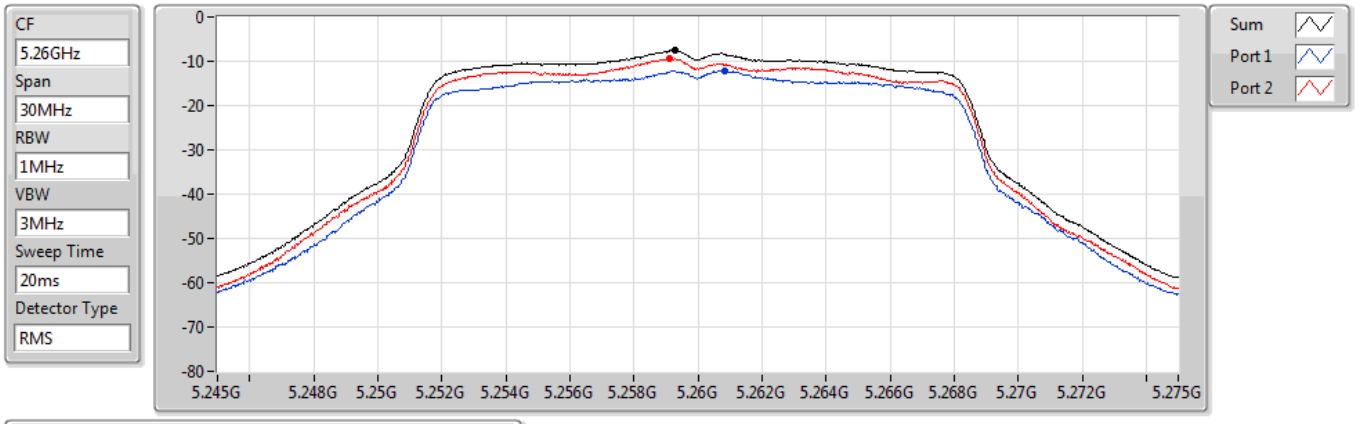
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
5260MHz	Pass	24.57	-12.04	-9.37	-7.58	-7.57
5300MHz	Pass	24.57	-12.35	-9.31	-7.60	-7.57
5320MHz	Pass	24.57	-12.42	-9.23	-7.65	-7.57
5500MHz	Pass	24.57	-11.68	-9.51	-7.60	-7.57
5580MHz	Pass	24.57	-12.47	-9.80	-7.98	-7.57
5700MHz	Pass	24.57	-11.23	-10.45	-7.93	-7.57
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5260MHz	Pass	24.57	-11.97	-9.54	-7.71	-7.57
5300MHz	Pass	24.57	-12.15	-9.51	-7.69	-7.57
5320MHz	Pass	24.57	-12.42	-9.34	-7.60	-7.57
5500MHz	Pass	24.57	-12.23	-9.79	-7.95	-7.57
5580MHz	Pass	24.57	-12.24	-9.42	-7.64	-7.57
5700MHz	Pass	24.57	-10.96	-10.18	-7.65	-7.57
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5270MHz	Pass	24.57	-13.33	-11.30	-9.36	-7.57
5310MHz	Pass	24.57	-13.60	-10.76	-9.02	-7.57
5510MHz	Pass	24.57	-13.30	-11.34	-9.38	-7.57
5550MHz	Pass	24.57	-13.93	-11.52	-9.72	-7.57
5670MHz	Pass	24.57	-13.26	-11.67	-9.41	-7.57
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5290MHz	Pass	24.57	-15.03	-15.32	-12.23	-7.57
5530MHz	Pass	24.57	-14.49	-15.42	-12.09	-7.57

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

802.11a_Nss1,(6Mbps)_2TX PSD

5260MHz

04/10/2022

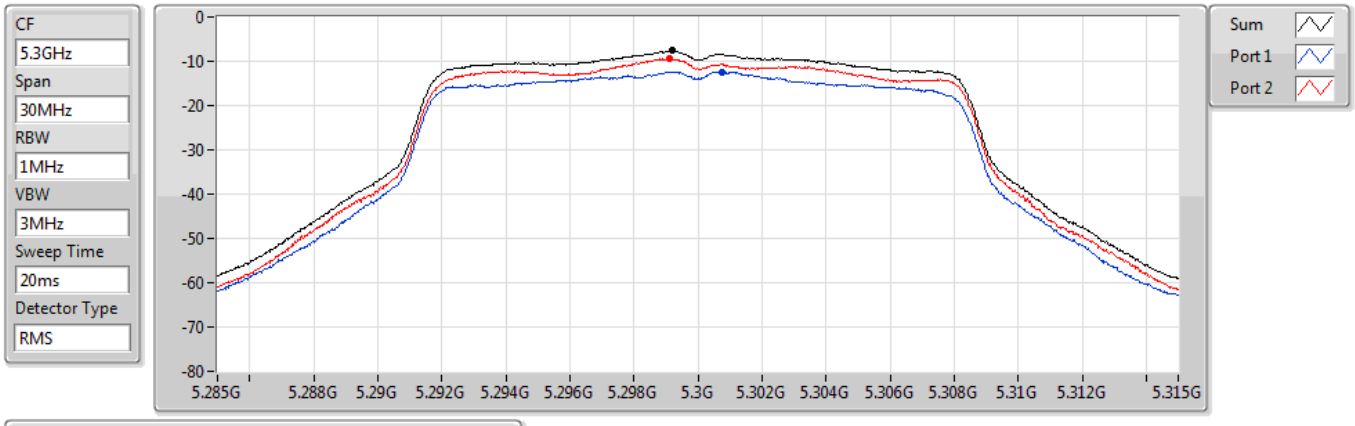


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.58	-7.58	-12.04	-9.37

802.11a_Nss1,(6Mbps)_2TX PSD

5300MHz

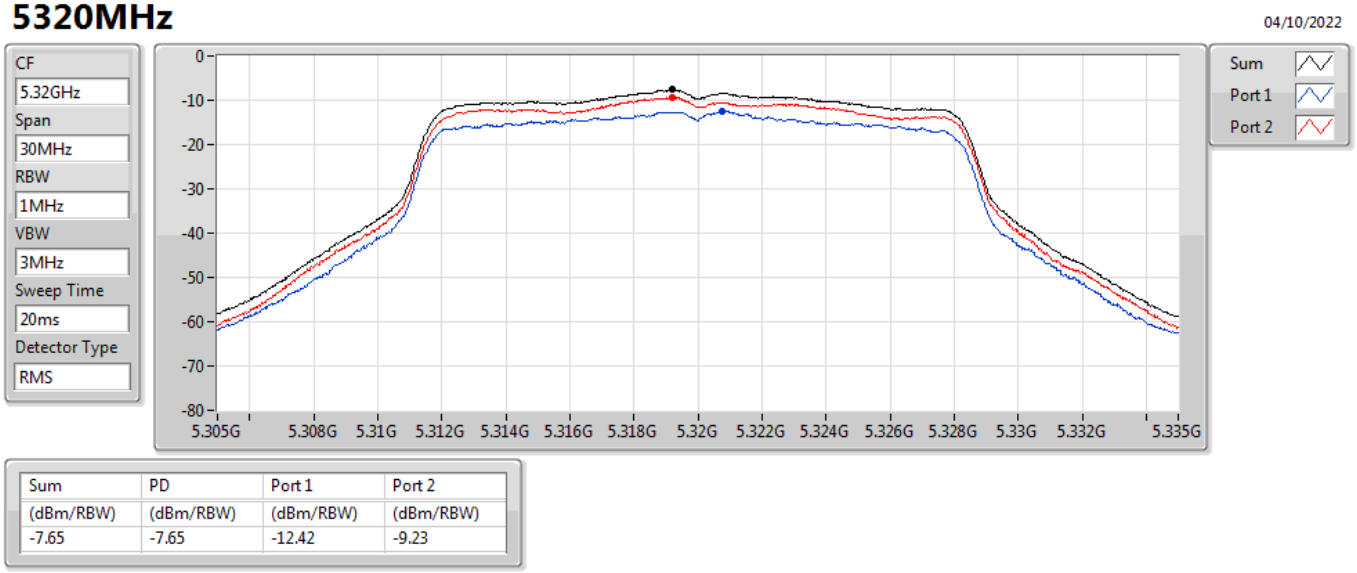
04/10/2022



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.60	-7.60	-12.35	-9.31

802.11a_Nss1,(6Mbps)_2TX PSD

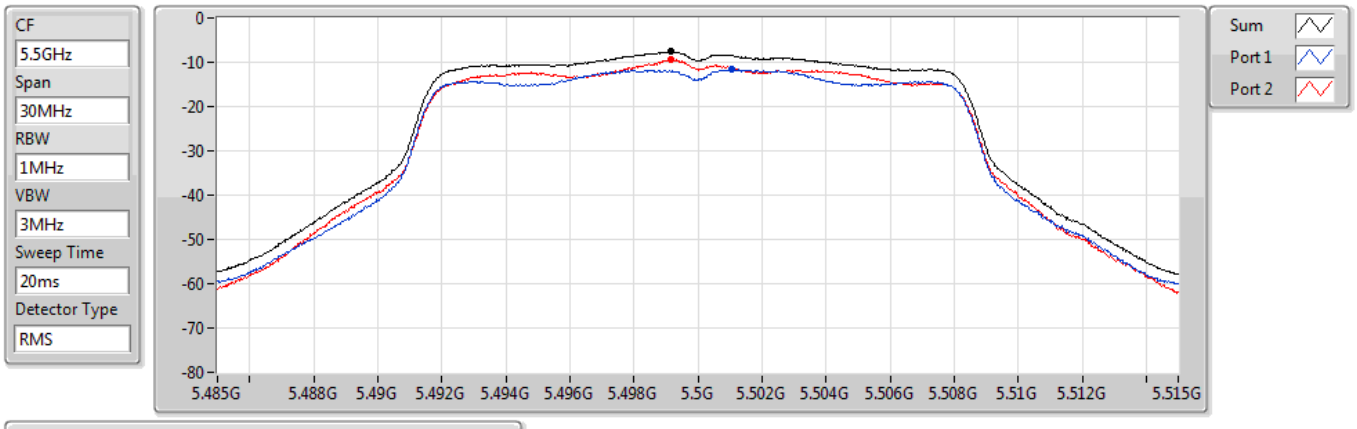
5320MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.65	-7.65	-12.42	-9.23

802.11a_Nss1,(6Mbps)_2TX PSD

5500MHz



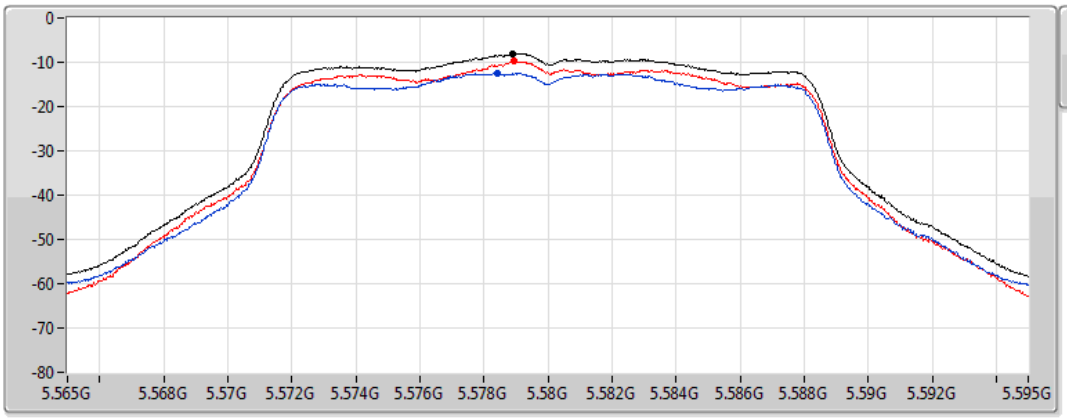
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.60	-7.60	-11.68	-9.51

802.11a_Nss1,(6Mbps)_2TX PSD

5580MHz

04/10/2022

CF	5.58GHz
Span	30MHz
RBW	1MHz
VBW	3MHz
Sweep Time	20ms
Detector Type	RMS



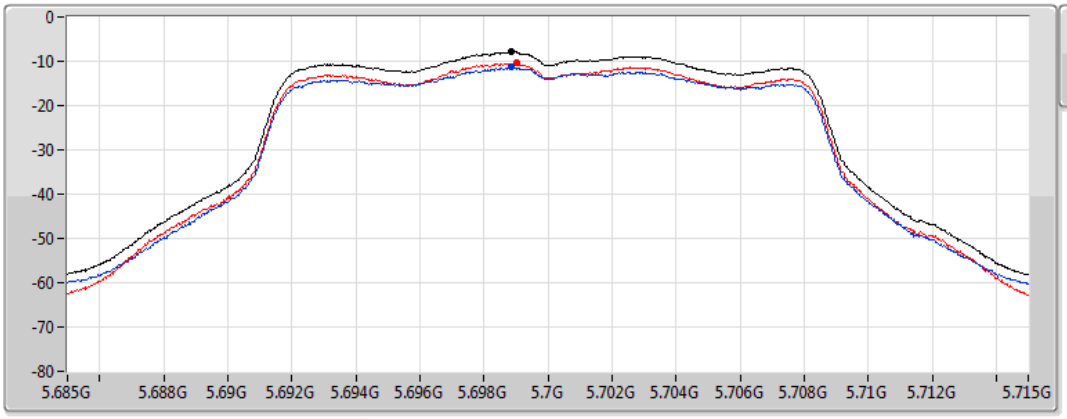
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.98	-7.98	-12.47	-9.80

802.11a_Nss1,(6Mbps)_2TX PSD

5700MHz

04/10/2022

CF	5.7GHz
Span	30MHz
RBW	1MHz
VBW	3MHz
Sweep Time	20ms
Detector Type	RMS

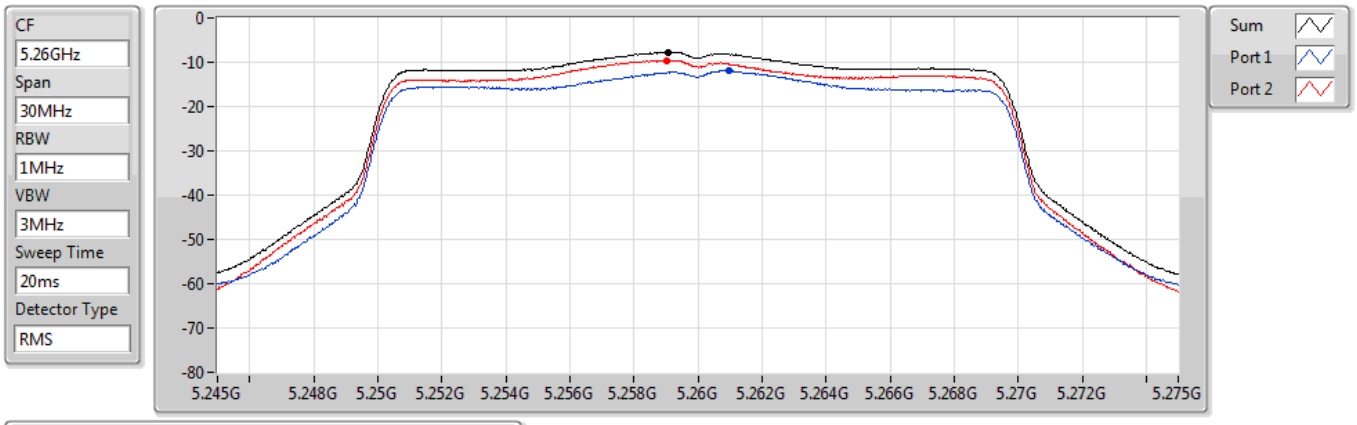


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.93	-7.93	-11.23	-10.45

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

5260MHz

04/10/2022

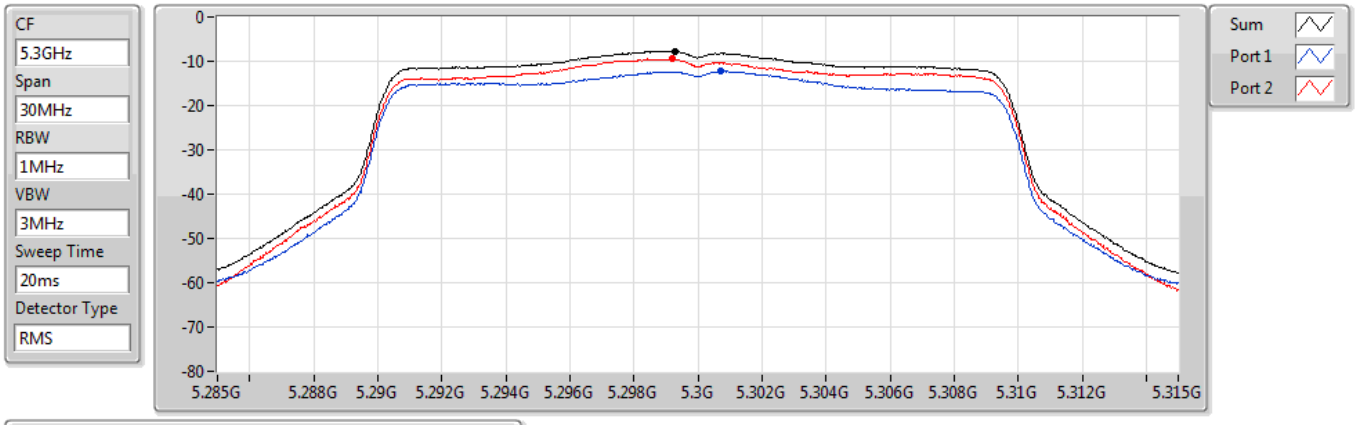


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.71	-7.71	-11.97	-9.54

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

5300MHz

04/10/2022

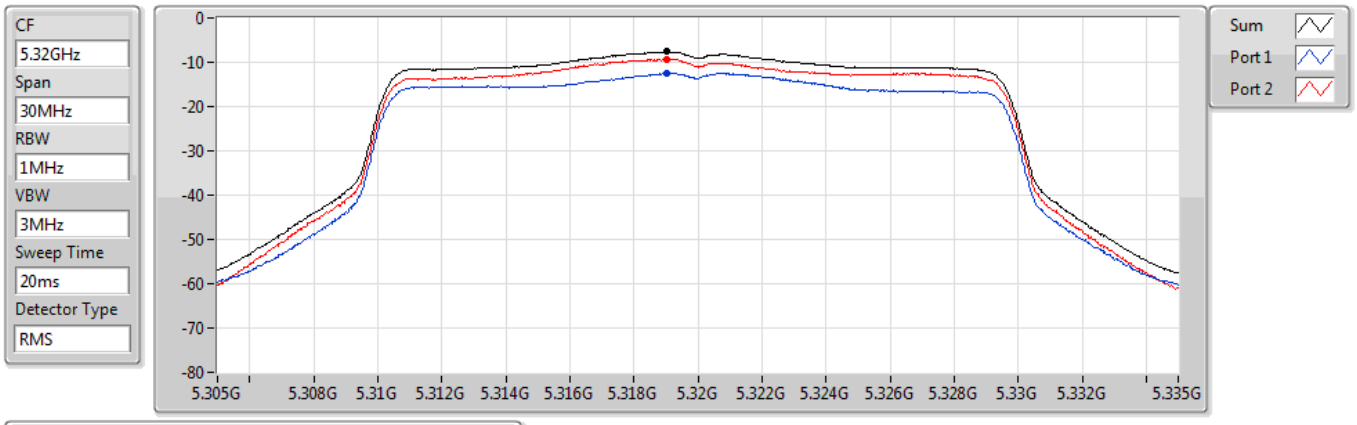


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.69	-7.69	-12.15	-9.51

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

5320MHz

04/10/2022

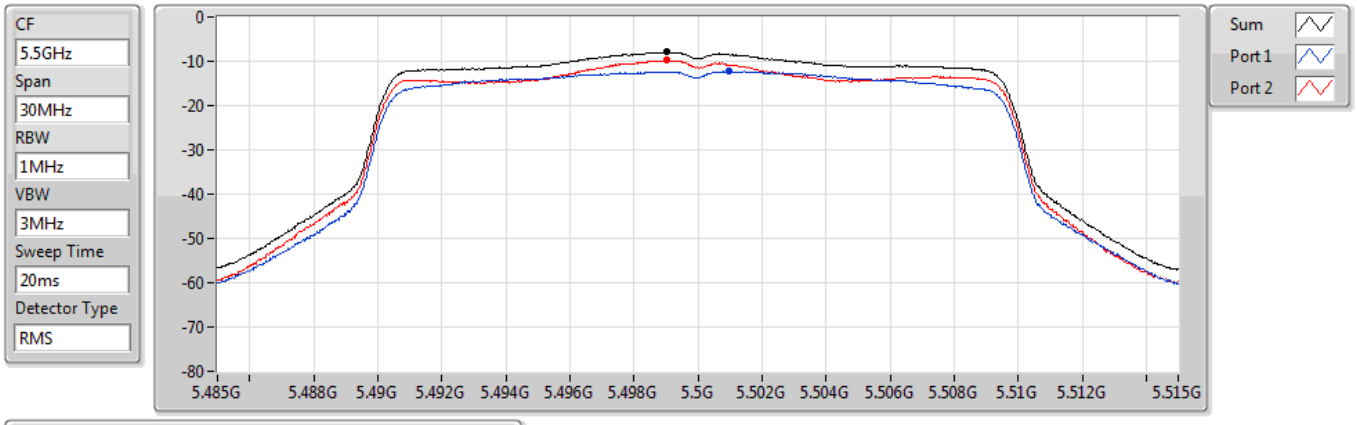


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.60	-7.60	-12.42	-9.34

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

5500MHz

04/10/2022

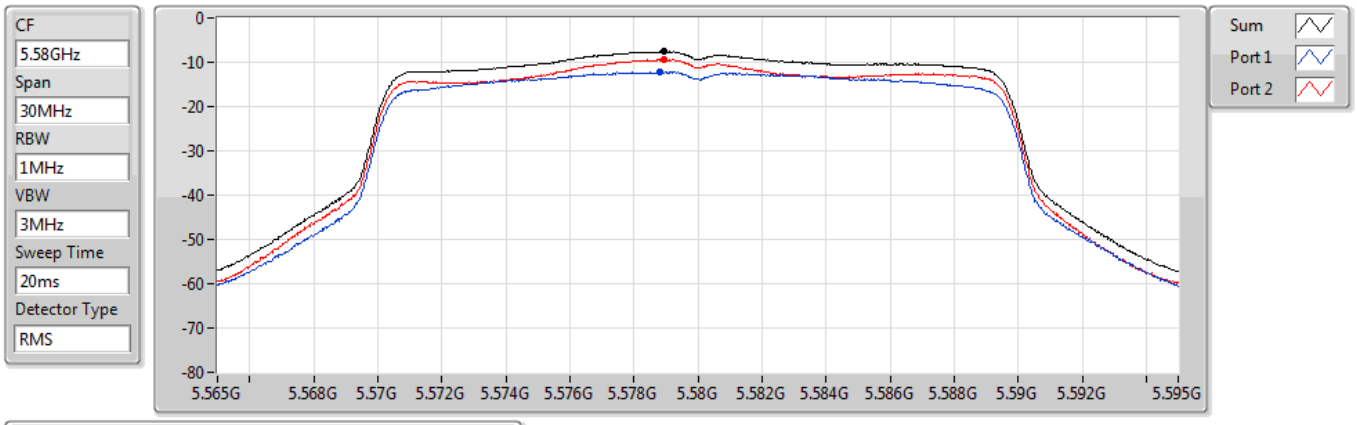


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.95	-7.95	-12.23	-9.79

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

5580MHz

04/10/2022

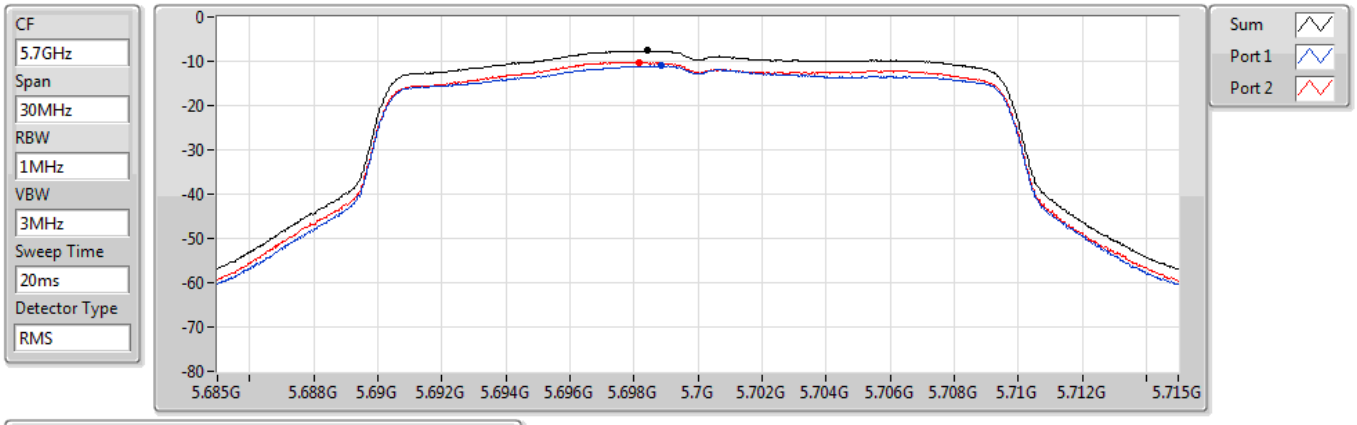


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.64	-7.64	-12.24	-9.42

802.11ax HEW20_Nss1,(MCS0)_2TX PSD

5700MHz

04/10/2022



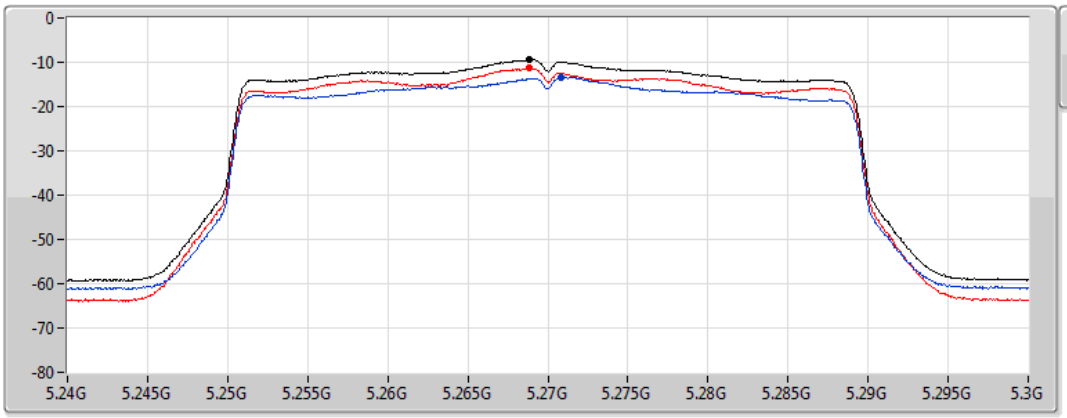
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.65	-7.65	-10.96	-10.18

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

5270MHz

04/10/2022

CF	5.27GHz
Span	60MHz
RBW	1MHz
VBW	3MHz
Sweep Time	20ms
Detector Type	RMS



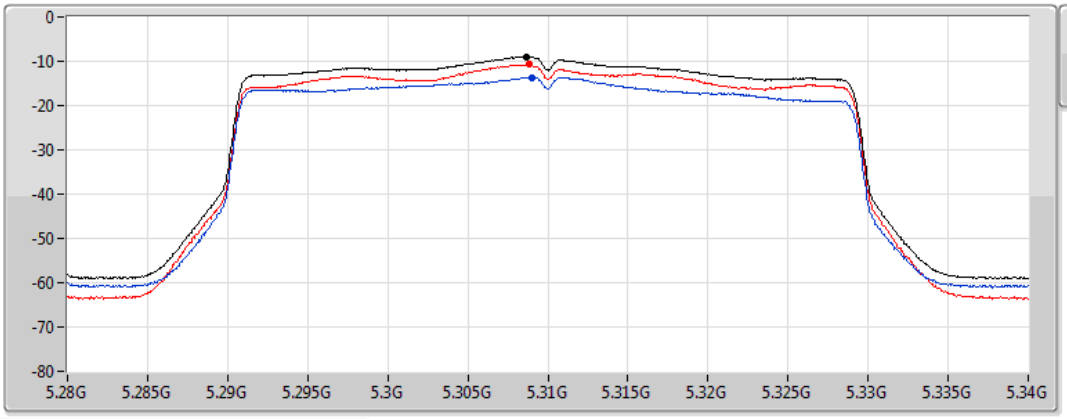
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.36	-9.36	-13.33	-11.30

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

5310MHz

04/10/2022

CF	5.31GHz
Span	60MHz
RBW	1MHz
VBW	3MHz
Sweep Time	20ms
Detector Type	RMS

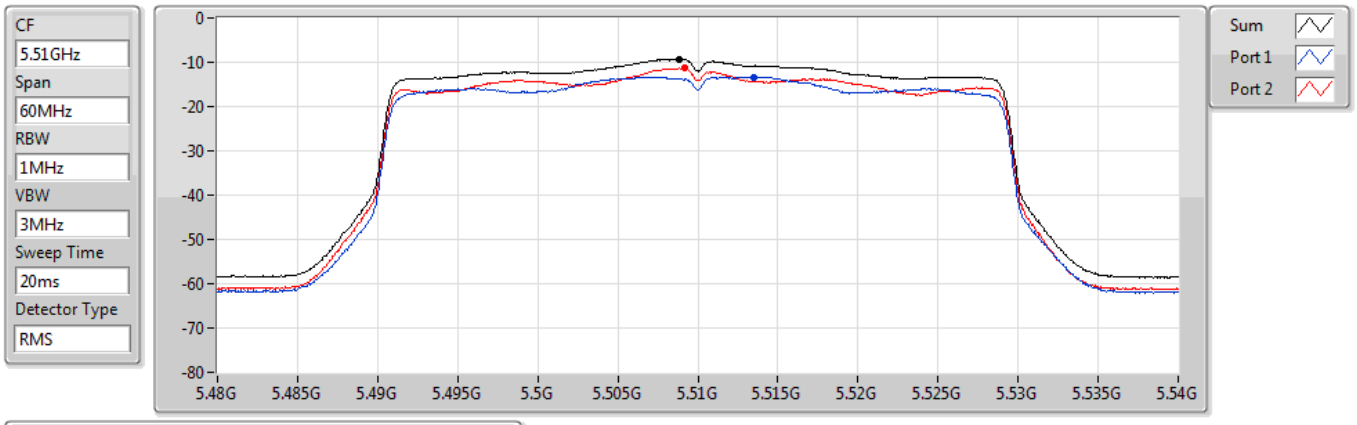


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.02	-9.02	-13.60	-10.76

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

5510MHz

04/10/2022

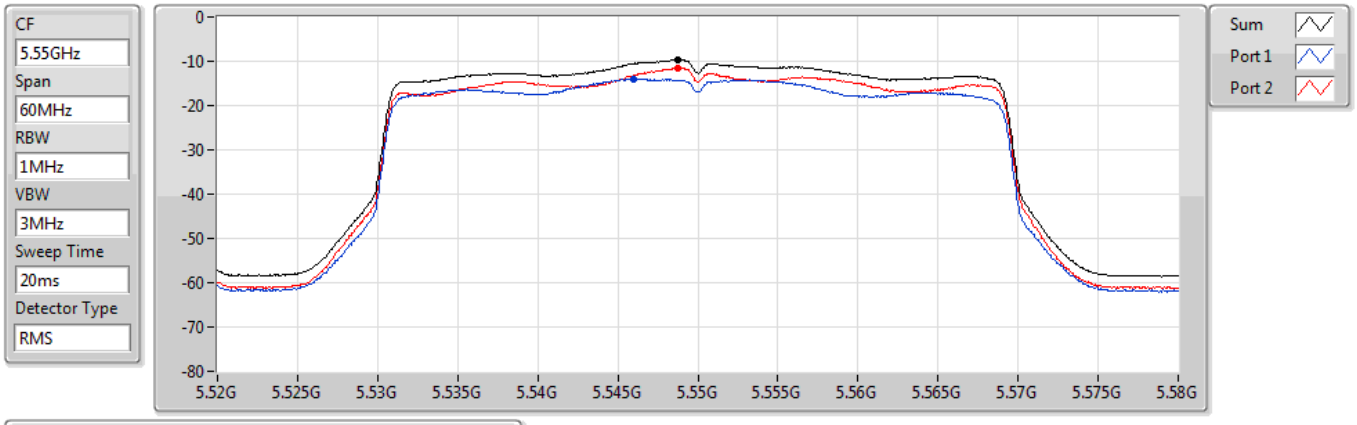


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.38	-9.38	-13.30	-11.34

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

5550MHz

04/10/2022

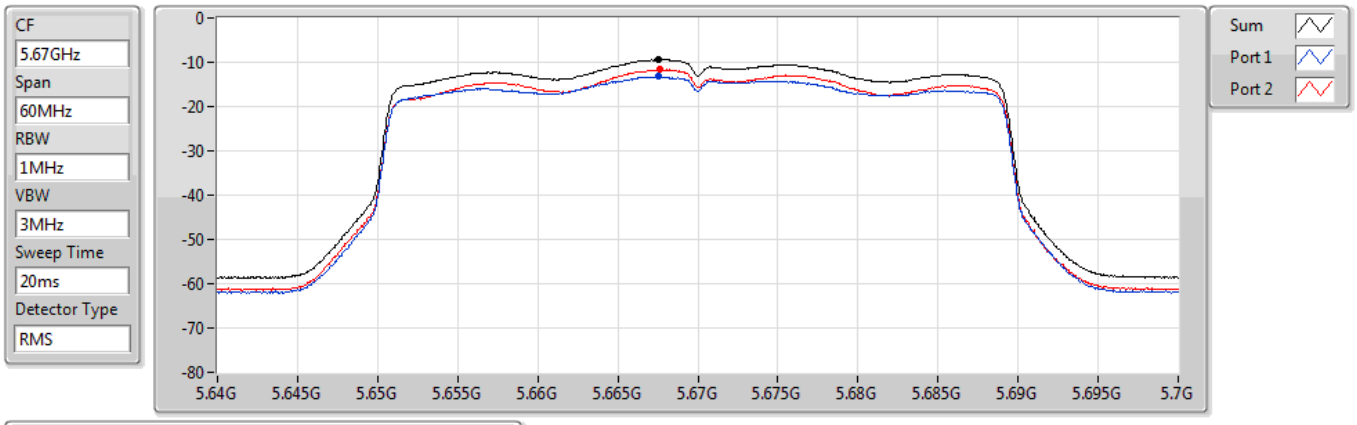


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.72	-9.72	-13.93	-11.52

802.11ax HEW40_Nss1,(MCS0)_2TX PSD

5670MHz

04/10/2022

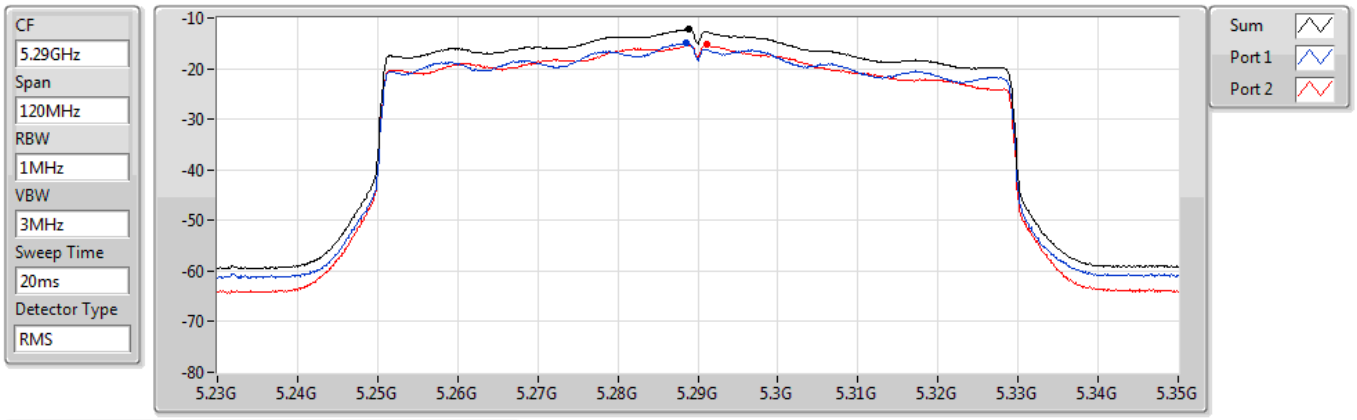


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.41	-9.41	-13.26	-11.67

802.11ax HEW80_Nss1,(MCS0)_2TX PSD

5290MHz

30/09/2022

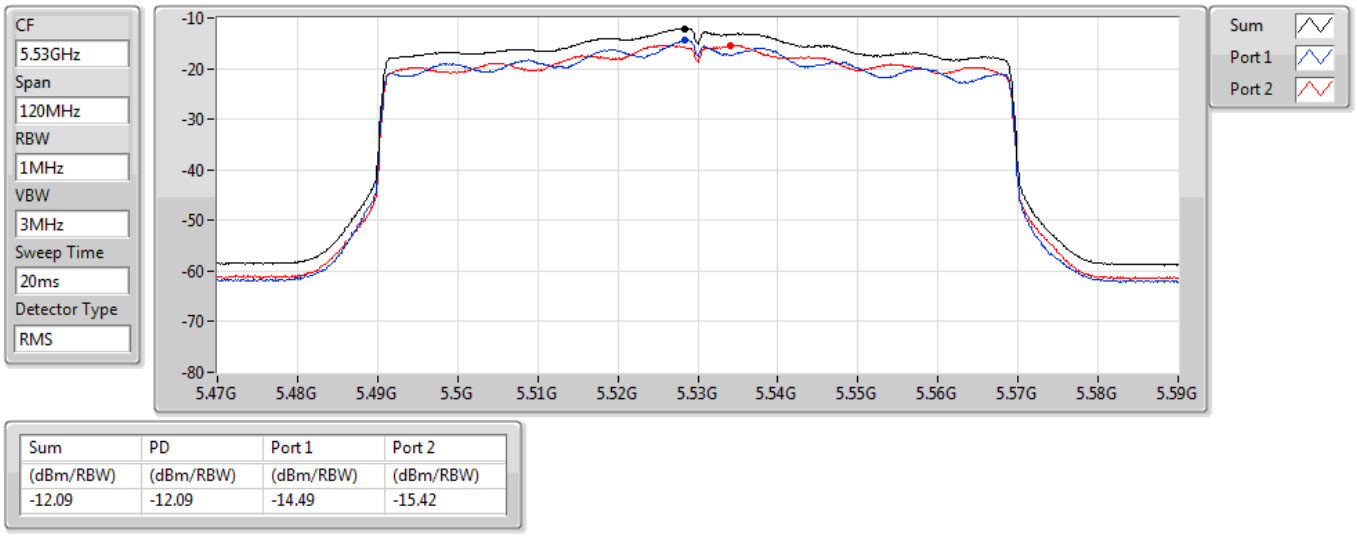


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.23	-12.23	-15.03	-15.32

802.11ax HEW80_Nss1,(MCS0)_2TX PSD

5530MHz

30/09/2022



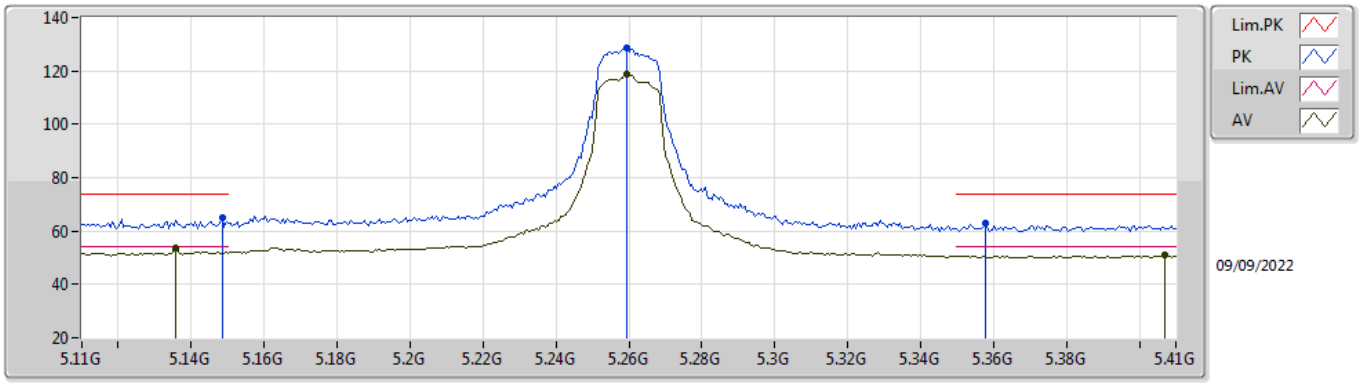
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.09	-12.09	-14.49	-15.42

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.47-5.725GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	5.4486G	53.97	54.00	-0.03	3	Vertical	90	1.77	-

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TnomVnom

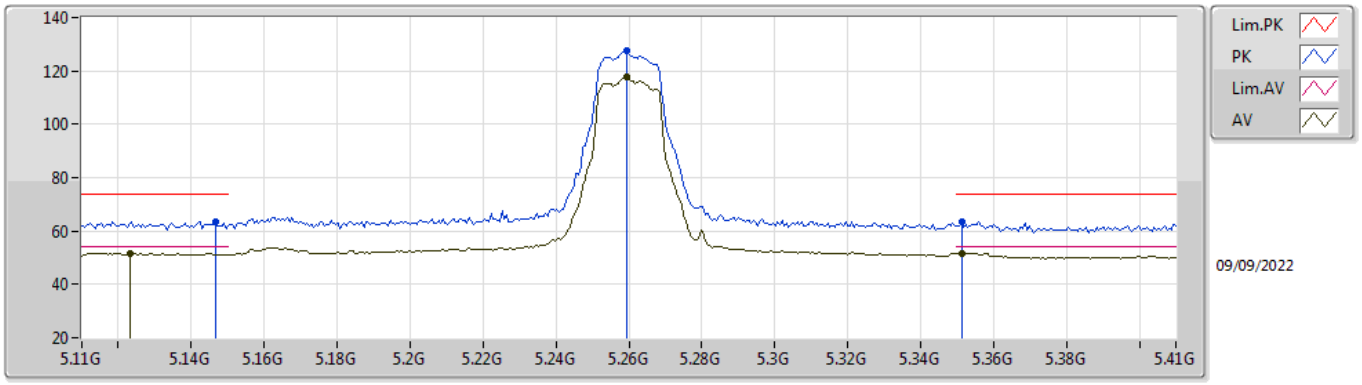


EUT X_2TX
Setting 18
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1484G	64.79	74.00	-9.21	56.67	3	Vertical	90	1.67	-	33.60	5.25	30.73
AV	5.1358G	53.60	54.00	-0.40	45.52	3	Vertical	90	1.67	-	33.57	5.24	30.73
PK	5.2594G	128.43	Inf	-Inf	120.10	3	Vertical	90	1.67	-	33.72	5.33	30.72
AV	5.2594G	118.71	Inf	-Inf	110.38	3	Vertical	90	1.67	-	33.72	5.33	30.72
PK	5.3578G	62.88	74.00	-11.12	54.30	3	Vertical	90	1.67	-	33.92	5.38	30.72
AV	5.407G	50.85	54.00	-3.15	42.16	3	Vertical	90	1.67	-	34.00	5.41	30.72

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TnomVnom

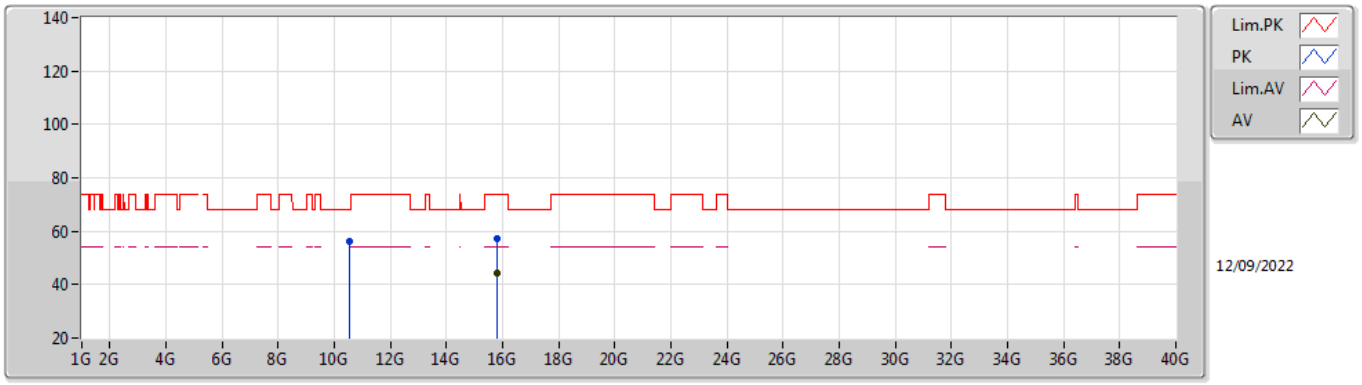


EUT X_2TX
Setting 18
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1466G	63.62	74.00	-10.38	55.51	3	Horizontal	91	1.72	-	33.59	5.25	30.73
AV	5.1232G	51.78	54.00	-2.22	43.74	3	Horizontal	91	1.72	-	33.55	5.22	30.73
PK	5.2594G	127.49	Inf	-Inf	119.16	3	Horizontal	91	1.72	-	33.72	5.33	30.72
AV	5.2594G	118.01	Inf	-Inf	109.68	3	Horizontal	91	1.72	-	33.72	5.33	30.72
PK	5.3512G	63.47	74.00	-10.53	54.91	3	Horizontal	91	1.72	-	33.90	5.38	30.72
AV	5.3512G	51.70	54.00	-2.30	43.14	3	Horizontal	91	1.72	-	33.90	5.38	30.72

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TnomVnom

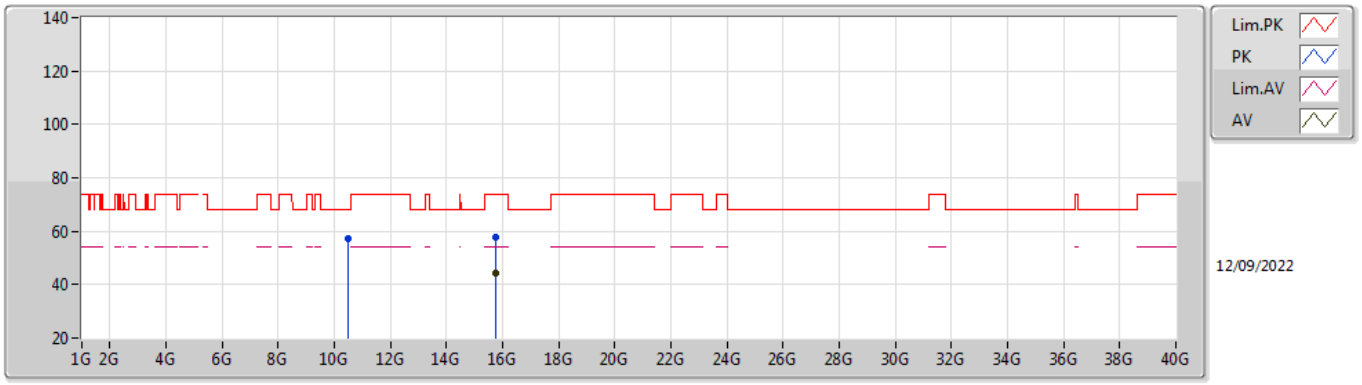


EUT X_2TX
Setting 18
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.52294G	56.14	68.20	-12.06	41.90	3	Vertical	91	2.20	-	38.58	7.51	31.85
PK	15.78234G	57.37	74.00	-16.63	41.45	3	Vertical	170	1.95	-	37.50	9.90	31.48
AV	15.77906G	44.21	54.00	-9.79	28.29	3	Vertical	170	1.95	-	37.50	9.90	31.48

802.11a_Nss1,(6Mbps)_2TX

5260MHz_TnomVnom

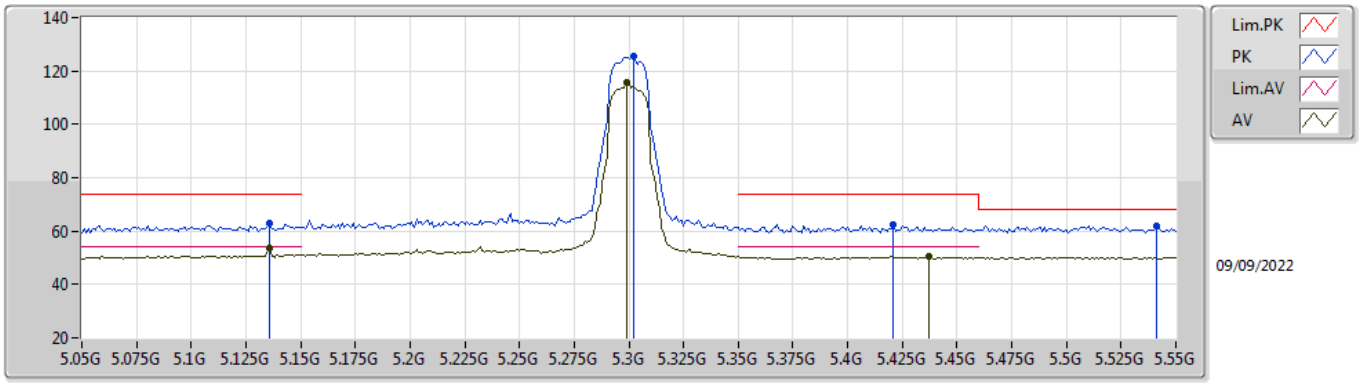


EUT X_2TX
Setting 18
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.5143G	57.18	68.20	-11.02	42.93	3	Horizontal	87	1.78	-	38.59	7.51	31.85
PK	15.77616G	57.88	74.00	-16.12	41.95	3	Horizontal	317	2.67	-	37.50	9.90	31.47
AV	15.77636G	44.21	54.00	-9.79	28.28	3	Horizontal	317	2.67	-	37.50	9.90	31.47

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TnomVnom

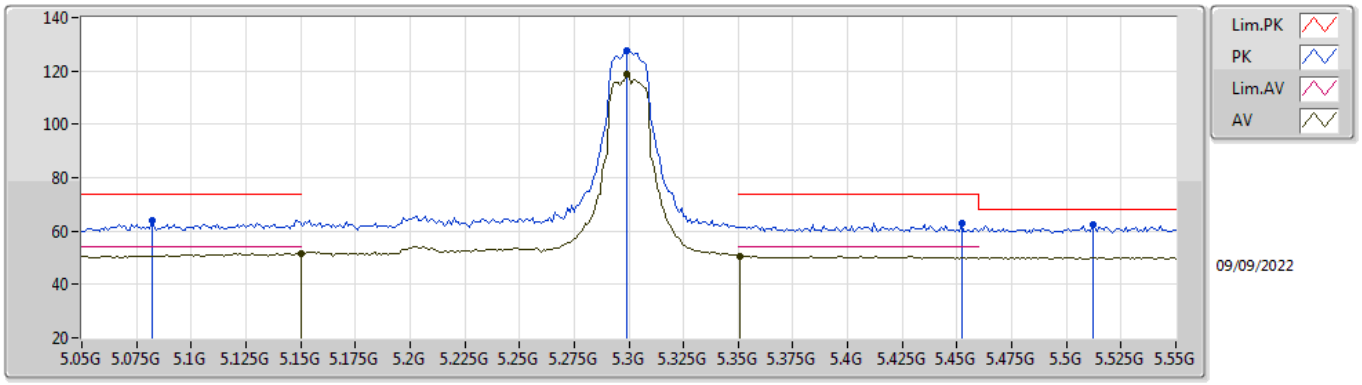


EUT X_2TX
Setting 18
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.136G	62.86	74.00	-11.14	54.78	3	Vertical	92	1.80	-	33.57	5.24	30.73
AV	5.136G	53.53	54.00	-0.47	45.45	3	Vertical	92	1.80	-	33.57	5.24	30.73
PK	5.302G	125.35	Inf	-Inf	116.92	3	Vertical	92	1.80	-	33.80	5.35	30.72
AV	5.299G	115.44	Inf	-Inf	107.01	3	Vertical	92	1.80	-	33.80	5.35	30.72
PK	5.421G	62.54	74.00	-11.46	53.84	3	Vertical	92	1.80	-	34.00	5.42	30.72
AV	5.437G	50.40	54.00	-3.60	41.68	3	Vertical	92	1.80	-	34.00	5.44	30.72
PK	5.541G	61.98	68.20	-6.22	53.19	3	Vertical	92	1.80	-	34.00	5.54	30.75

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TnomVnom

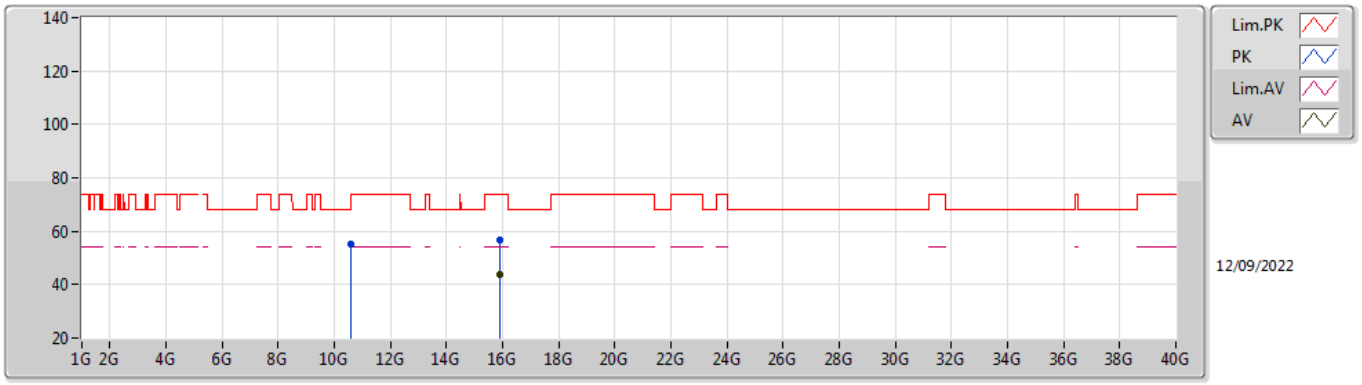


EUT X_2TX
Setting 18
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.082G	64.06	74.00	-9.94	56.11	3	Horizontal	90	1.73	-	33.50	5.18	30.73
AV	5.15G	51.65	54.00	-2.35	43.53	3	Horizontal	90	1.73	-	33.60	5.25	30.73
PK	5.299G	127.84	Inf	-Inf	119.41	3	Horizontal	90	1.73	-	33.80	5.35	30.72
AV	5.299G	118.84	Inf	-Inf	110.41	3	Horizontal	90	1.73	-	33.80	5.35	30.72
AV	5.351G	50.74	54.00	-3.26	42.18	3	Horizontal	90	1.73	-	33.90	5.38	30.72
PK	5.452G	62.81	74.00	-11.19	54.08	3	Horizontal	90	1.73	-	34.00	5.45	30.72
PK	5.512G	62.23	68.20	-5.97	53.45	3	Horizontal	90	1.73	-	34.00	5.51	30.73

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TnomVnom

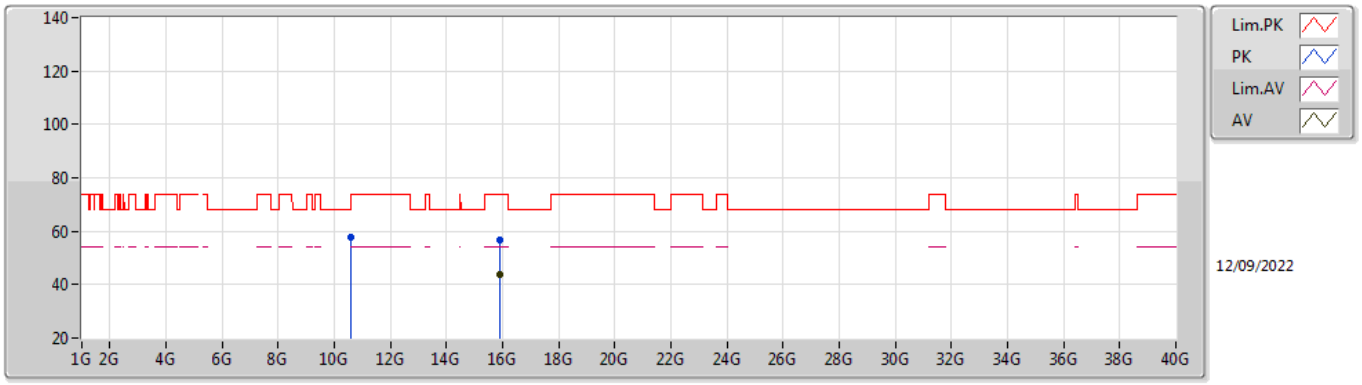


EUT X_2TX
Setting 18
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.60282G	55.09	74.00	-18.91	40.91	3	Vertical	68	2.12	-	38.50	7.54	31.86
PK	15.9022G	56.63	74.00	-17.37	40.91	3	Vertical	198	1.44	-	37.30	9.96	31.54
AV	15.89692G	43.59	54.00	-10.41	27.87	3	Vertical	198	1.44	-	37.31	9.95	31.54

802.11a_Nss1,(6Mbps)_2TX

5300MHz_TnomVnom

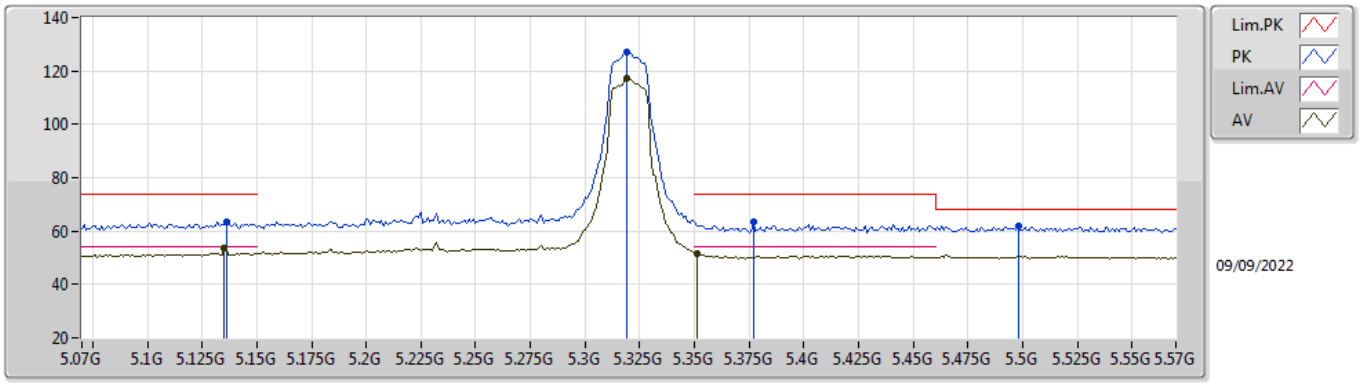


EUT X_2TX
Setting 18
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.59742G	57.56	68.20	-10.64	43.38	3	Horizontal	86	1.80	-	38.50	7.54	31.86
PK	15.90034G	56.76	74.00	-17.24	41.04	3	Horizontal	165	2.79	-	37.30	9.96	31.54
AV	15.89742G	43.62	54.00	-10.38	27.90	3	Horizontal	165	2.79	-	37.31	9.95	31.54

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TnomVnom

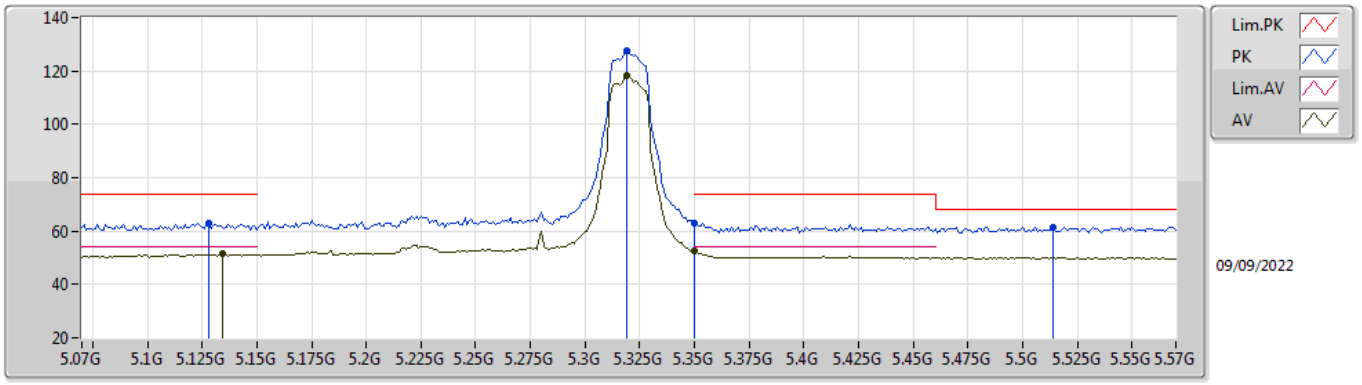


EUT X_2TX
Setting 18
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.136G	63.61	74.00	-10.39	55.53	3	Vertical	91	1.71	-	33.57	5.24	30.73
AV	5.135G	53.86	54.00	-0.14	45.78	3	Vertical	91	1.71	-	33.57	5.24	30.73
PK	5.319G	127.30	Inf	-Inf	118.82	3	Vertical	91	1.71	-	33.84	5.36	30.72
AV	5.319G	117.33	Inf	-Inf	108.85	3	Vertical	91	1.71	-	33.84	5.36	30.72
PK	5.377G	63.26	74.00	-10.74	54.64	3	Vertical	91	1.71	-	33.95	5.39	30.72
AV	5.351G	51.69	54.00	-2.31	43.13	3	Vertical	91	1.71	-	33.90	5.38	30.72
PK	5.498G	61.77	68.20	-6.43	52.99	3	Vertical	91	1.71	-	34.00	5.50	30.72

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TnomVnom

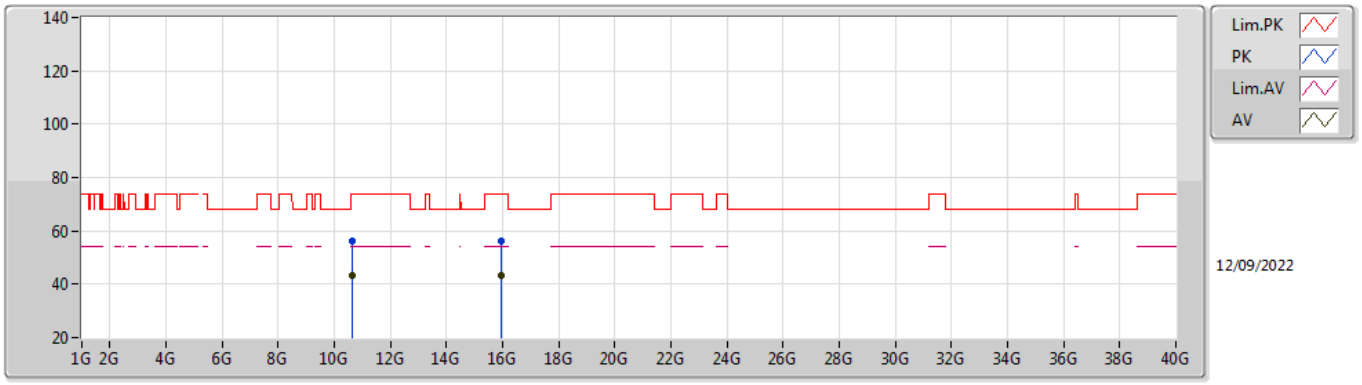


EUT X_2TX
Setting 18
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.128G	63.10	74.00	-10.90	55.04	3	Horizontal	90	1.76	-	33.56	5.23	30.73
AV	5.134G	51.32	54.00	-2.68	43.25	3	Horizontal	90	1.76	-	33.57	5.23	30.73
PK	5.319G	127.35	Inf	-Inf	118.87	3	Horizontal	90	1.76	-	33.84	5.36	30.72
AV	5.319G	118.10	Inf	-Inf	109.62	3	Horizontal	90	1.76	-	33.84	5.36	30.72
PK	5.35G	63.10	74.00	-10.90	54.54	3	Horizontal	90	1.76	-	33.90	5.38	30.72
AV	5.35G	52.78	54.00	-1.22	44.22	3	Horizontal	90	1.76	-	33.90	5.38	30.72
PK	5.514G	61.58	68.20	-6.62	52.80	3	Horizontal	90	1.76	-	34.00	5.51	30.73

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TnomVnom

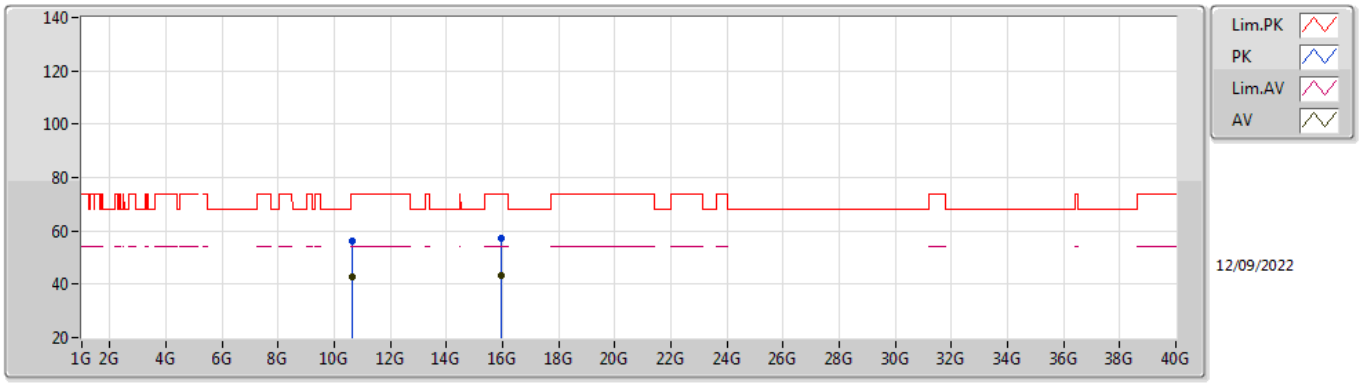


EUT X_2TX
Setting 18
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.63436G	56.07	74.00	-17.93	41.89	3	Vertical	91	2.17	-	38.50	7.55	31.87
AV	10.6397G	43.50	54.00	-10.50	29.31	3	Vertical	91	2.17	-	38.50	7.56	31.87
PK	15.96298G	56.01	74.00	-17.99	40.30	3	Vertical	135	2.58	-	37.30	9.98	31.57
AV	15.95938G	43.45	54.00	-10.55	27.74	3	Vertical	135	2.58	-	37.30	9.98	31.57

802.11a_Nss1,(6Mbps)_2TX

5320MHz_TnomVnom

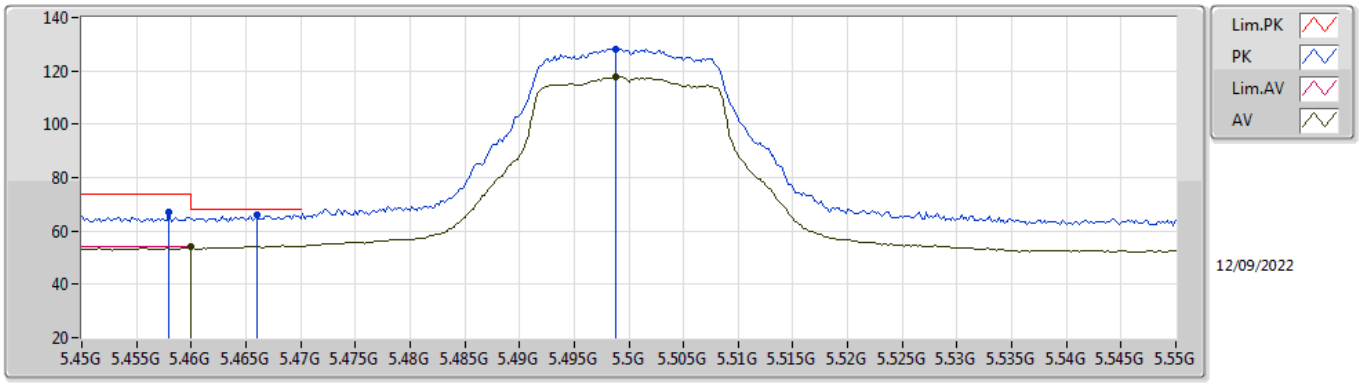


EUT X_2TX
Setting 18
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.6343G	56.05	74.00	-17.95	41.87	3	Horizontal	88	1.80	-	38.50	7.55	31.87
AV	10.63838G	42.66	54.00	-11.34	28.47	3	Horizontal	88	1.80	-	38.50	7.56	31.87
PK	15.9585G	57.48	74.00	-16.52	41.77	3	Horizontal	122	2.88	-	37.30	9.98	31.57
AV	15.95922G	43.52	54.00	-10.48	27.81	3	Horizontal	122	2.88	-	37.30	9.98	31.57

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TnomVnom

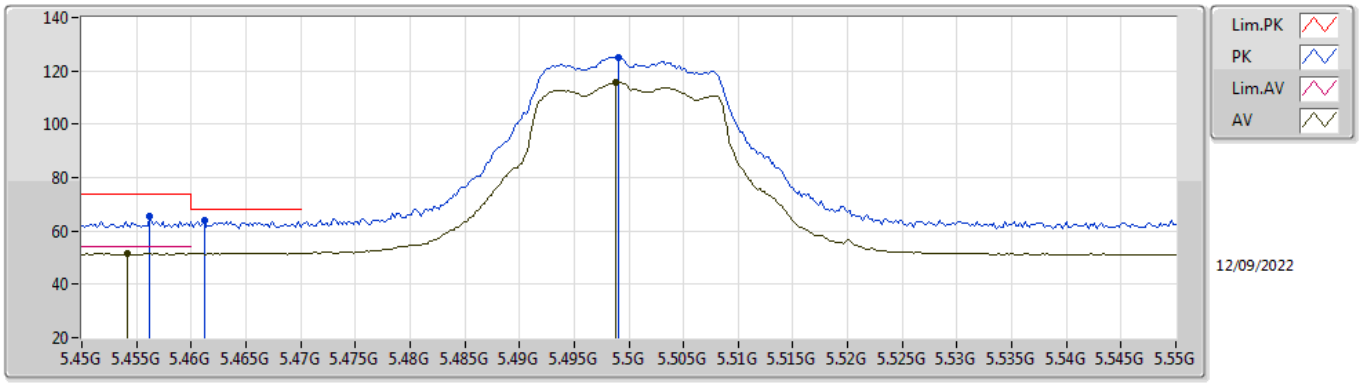


EUT X_2TX
Setting 13
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.458G	66.89	74.00	-7.11	58.15	3	Vertical	90	1.80	-	34.00	5.46	30.72
AV	5.46G	53.89	54.00	-0.11	45.15	3	Vertical	90	1.80	-	34.00	5.46	30.72
PK	5.466G	66.02	68.20	-2.18	57.27	3	Vertical	90	1.80	-	34.00	5.47	30.72
PK	5.4988G	128.36	Inf	-Inf	119.58	3	Vertical	90	1.80	-	34.00	5.50	30.72
AV	5.4988G	117.95	Inf	-Inf	109.17	3	Vertical	90	1.80	-	34.00	5.50	30.72

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TnomVnom

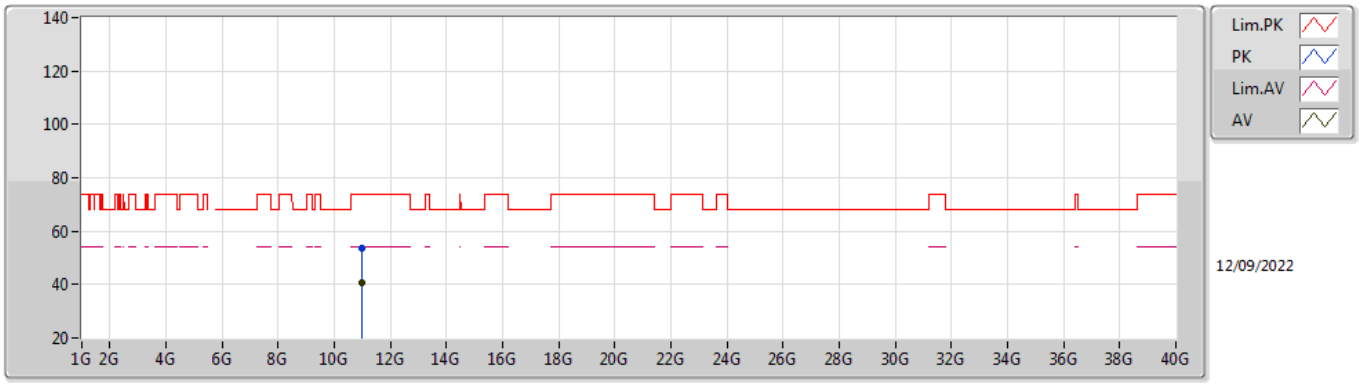


EUT X_2TX
Setting 13
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4562G	65.51	74.00	-8.49	56.77	3	Horizontal	92	1.79	-	34.00	5.46	30.72
AV	5.4542G	51.57	54.00	-2.43	42.84	3	Horizontal	92	1.79	-	34.00	5.45	30.72
PK	5.4612G	63.91	68.20	-4.29	55.17	3	Horizontal	92	1.79	-	34.00	5.46	30.72
PK	5.499G	125.20	Inf	-Inf	116.42	3	Horizontal	92	1.79	-	34.00	5.50	30.72
AV	5.4988G	115.77	Inf	-Inf	106.99	3	Horizontal	92	1.79	-	34.00	5.50	30.72

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TnomVnom

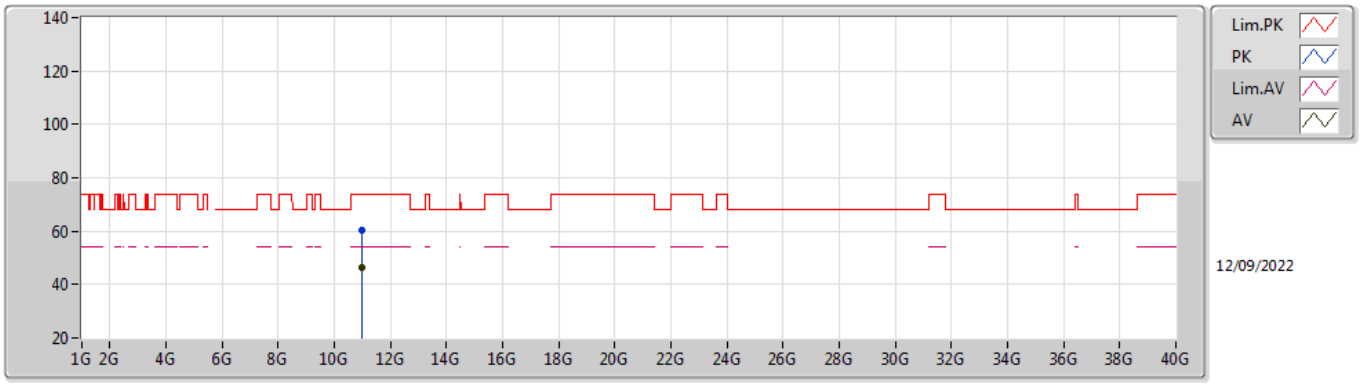


EUT X_2TX
Setting 13
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.99982G	53.77	74.00	-20.23	39.39	3	Vertical	68	2.22	-	38.60	7.70	31.92
AV	11.00018G	40.92	54.00	-13.08	26.54	3	Vertical	68	2.22	-	38.60	7.70	31.92

802.11a_Nss1,(6Mbps)_2TX

5500MHz_TnomVnom

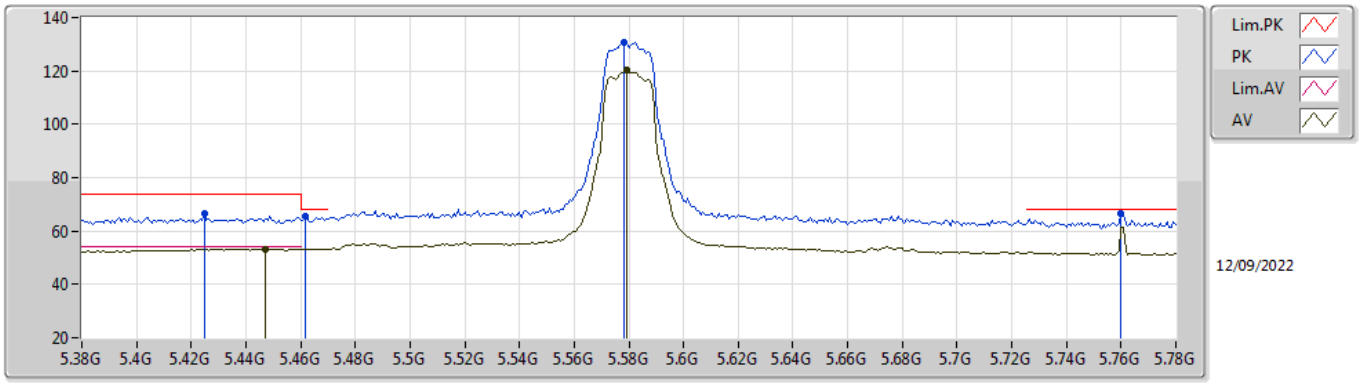


EUT X_2TX
Setting 13
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.00114G	60.36	74.00	-13.64	45.98	3	Horizontal	93	1.78	-	38.60	7.70	31.92
AV	11.00186G	46.16	54.00	-7.84	31.78	3	Horizontal	93	1.78	-	38.60	7.70	31.92

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TnomVnom

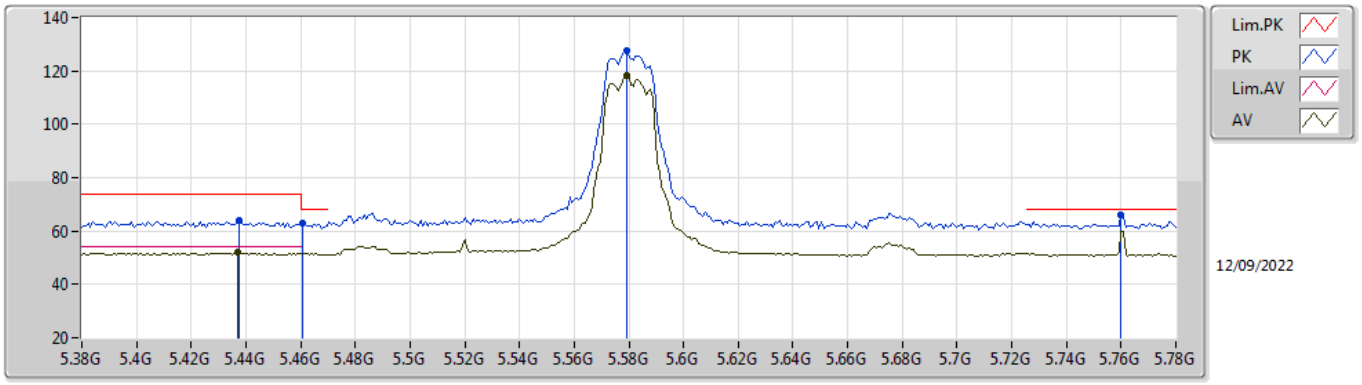


EUT X_2TX
Setting 16
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4248G	66.44	74.00	-7.56	57.74	3	Vertical	90	1.72	-	34.00	5.42	30.72
PK	5.4616G	65.28	68.20	-2.92	56.54	3	Vertical	90	1.72	-	34.00	5.46	30.72
AV	5.4472G	53.24	54.00	-0.76	44.51	3	Vertical	90	1.72	-	34.00	5.45	30.72
PK	5.5784G	130.49	Inf	-Inf	121.75	3	Vertical	90	1.72	-	33.94	5.58	30.78
AV	5.5792G	120.20	Inf	-Inf	111.46	3	Vertical	90	1.72	-	33.94	5.58	30.78
PK	5.76G	66.79	68.20	-1.41	58.31	3	Vertical	90	1.72	-	33.80	5.60	30.92

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TnomVnom

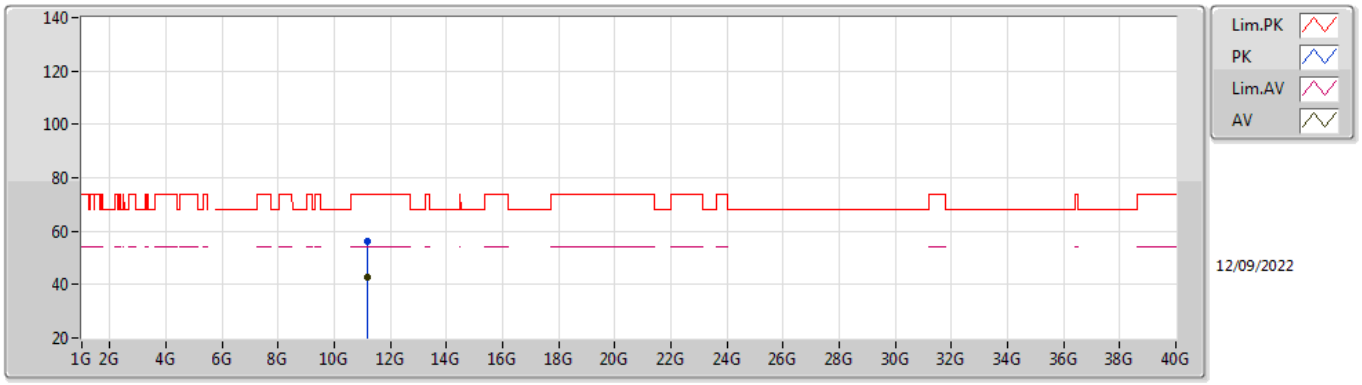


EUT X_2TX
Setting 16
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4376G	64.16	74.00	-9.84	55.44	3	Horizontal	92	1.80	-	34.00	5.44	30.72
AV	5.4368G	51.85	54.00	-2.15	43.13	3	Horizontal	92	1.80	-	34.00	5.44	30.72
PK	5.4608G	63.15	68.20	-5.05	54.41	3	Horizontal	92	1.80	-	34.00	5.46	30.72
PK	5.5792G	127.67	Inf	-Inf	118.93	3	Horizontal	92	1.80	-	33.94	5.58	30.78
AV	5.5792G	118.08	Inf	-Inf	109.34	3	Horizontal	92	1.80	-	33.94	5.58	30.78
PK	5.76G	65.85	68.20	-2.35	57.37	3	Horizontal	92	1.80	-	33.80	5.60	30.92

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TnomVnom

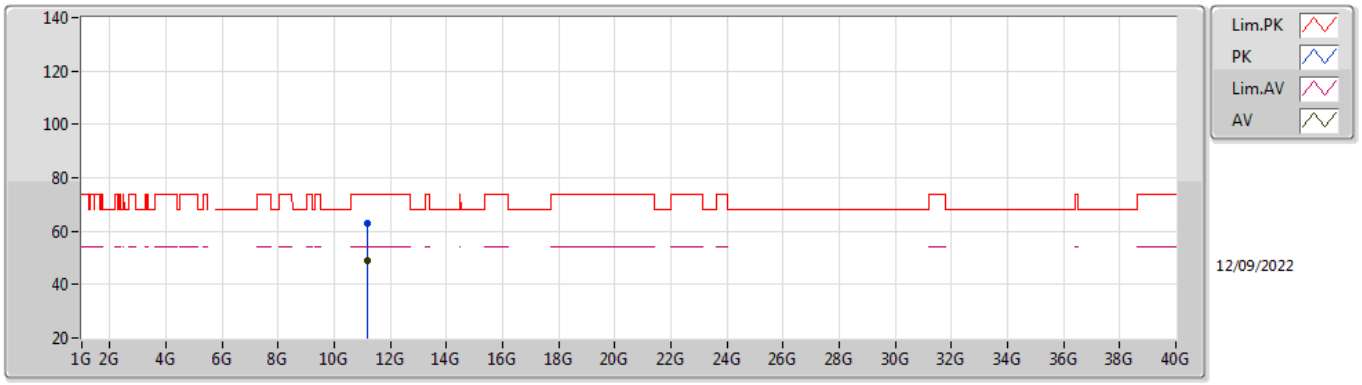


EUT X_2TX
Setting 16
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.16144G	56.17	74.00	-17.83	41.63	3	Vertical	66	1.80	-	38.76	7.76	31.98
AV	11.1603G	42.83	54.00	-11.17	28.29	3	Vertical	66	1.80	-	38.76	7.76	31.98

802.11a_Nss1,(6Mbps)_2TX

5580MHz_TnomVnom

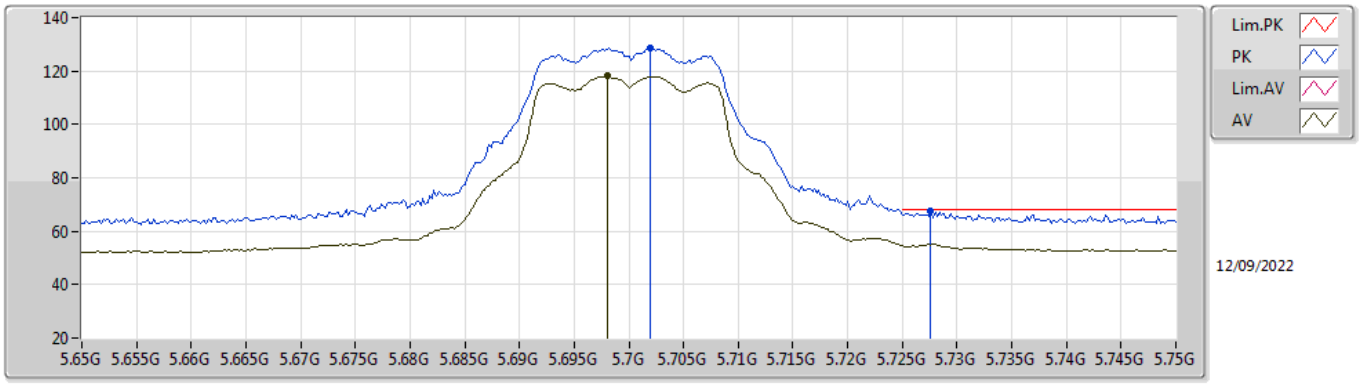


EUT X_2TX
Setting 16
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.16138G	62.71	74.00	-11.29	48.17	3	Horizontal	93	1.76	-	38.76	7.76	31.98
AV	11.16156G	48.88	54.00	-5.12	34.34	3	Horizontal	93	1.76	-	38.76	7.76	31.98

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TnomVnom

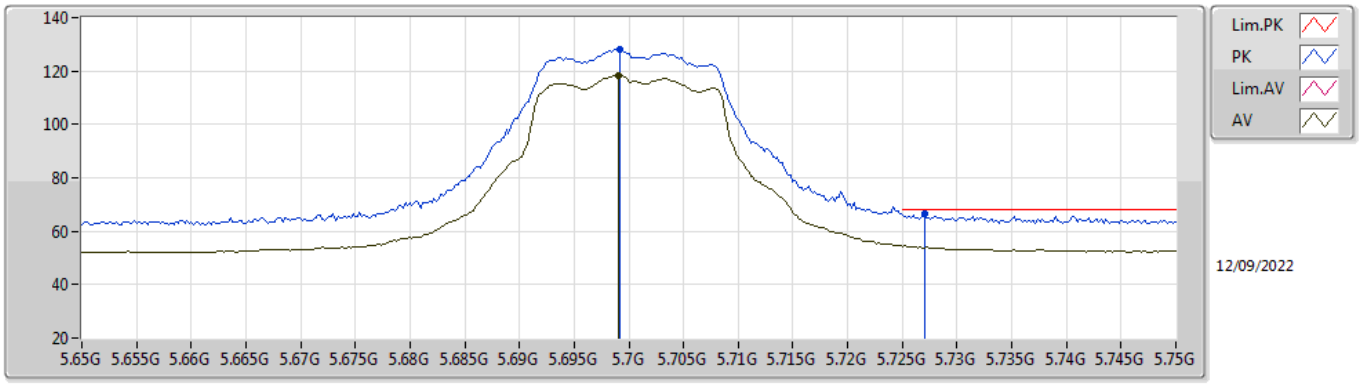


EUT X_2TX
Setting 16
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.702G	128.75	Inf	-Inf	120.12	3	Vertical	90	1.75	-	33.90	5.60	30.87
AV	5.698G	118.05	Inf	-Inf	109.42	3	Vertical	90	1.75	-	33.90	5.60	30.87
PK	5.7276G	67.67	68.20	-0.53	59.12	3	Vertical	90	1.75	-	33.84	5.60	30.89

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TnomVnom

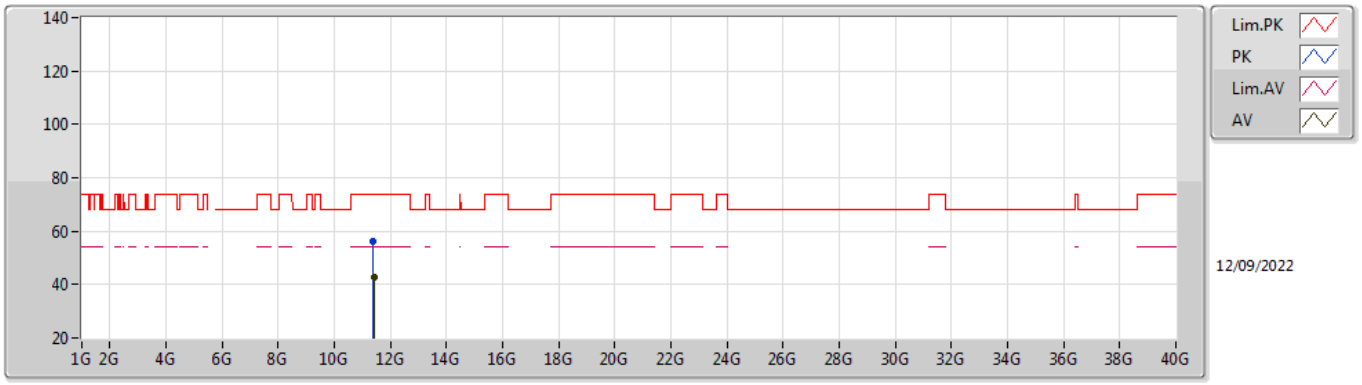


EUT X_2TX
Setting 16
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6992G	128.22	Inf	-Inf	119.59	3	Horizontal	91	1.80	-	33.90	5.60	30.87
AV	5.699G	118.52	Inf	-Inf	109.89	3	Horizontal	91	1.80	-	33.90	5.60	30.87
PK	5.727G	66.55	68.20	-1.65	57.99	3	Horizontal	91	1.80	-	33.85	5.60	30.89

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TnomVnom

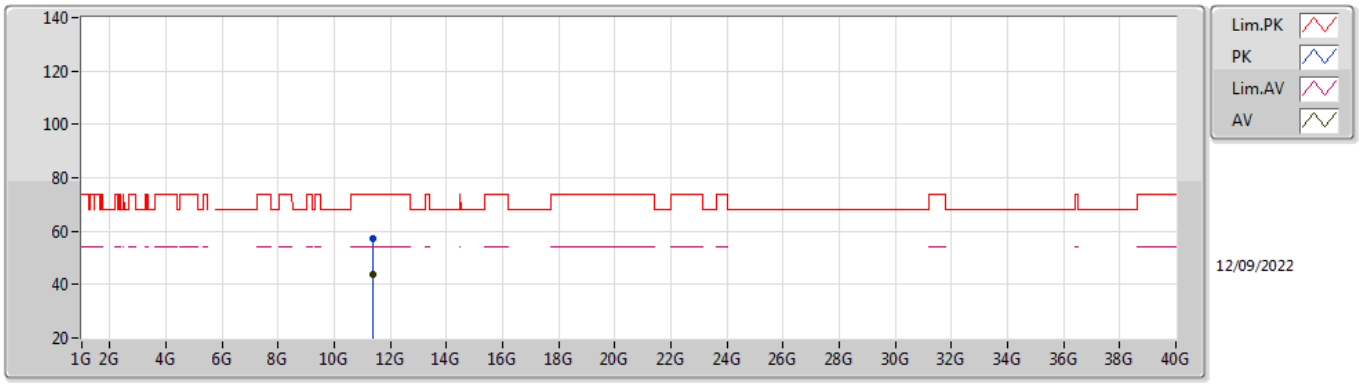


EUT X_2TX
Setting 16
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.39718G	56.31	74.00	-17.69	41.73	3	Vertical	114	1.84	-	38.80	7.86	32.08
AV	11.40222G	42.88	54.00	-11.12	28.30	3	Vertical	114	1.84	-	38.80	7.86	32.08

802.11a_Nss1,(6Mbps)_2TX

5700MHz_TnomVnom

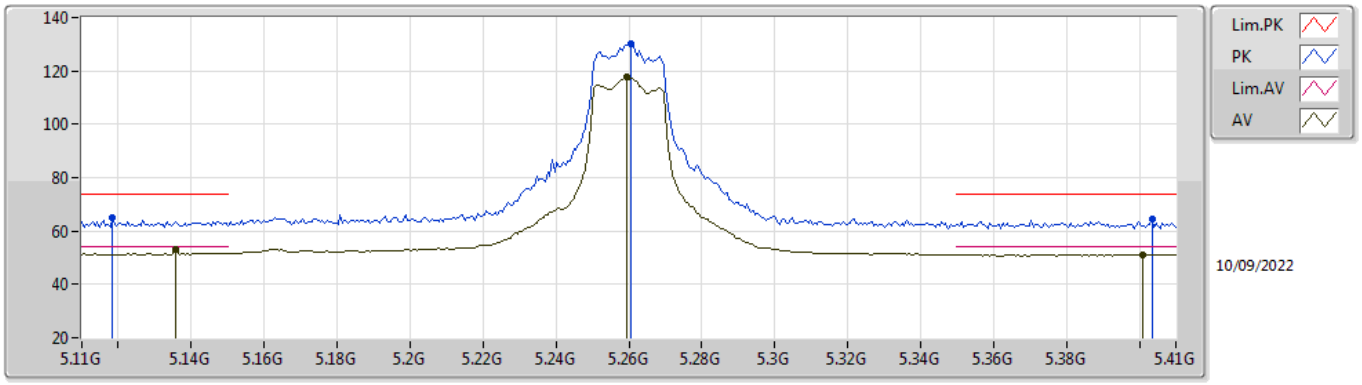


EUT X_2TX
Setting 16
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.39622G	57.49	74.00	-16.51	42.91	3	Horizontal	65	1.78	-	38.80	7.86	32.08
AV	11.40072G	43.78	54.00	-10.22	29.20	3	Horizontal	65	1.78	-	38.80	7.86	32.08

802.11ax HEW20_Nss1,(MCS0)_2TX

5260MHz_TnomVnom

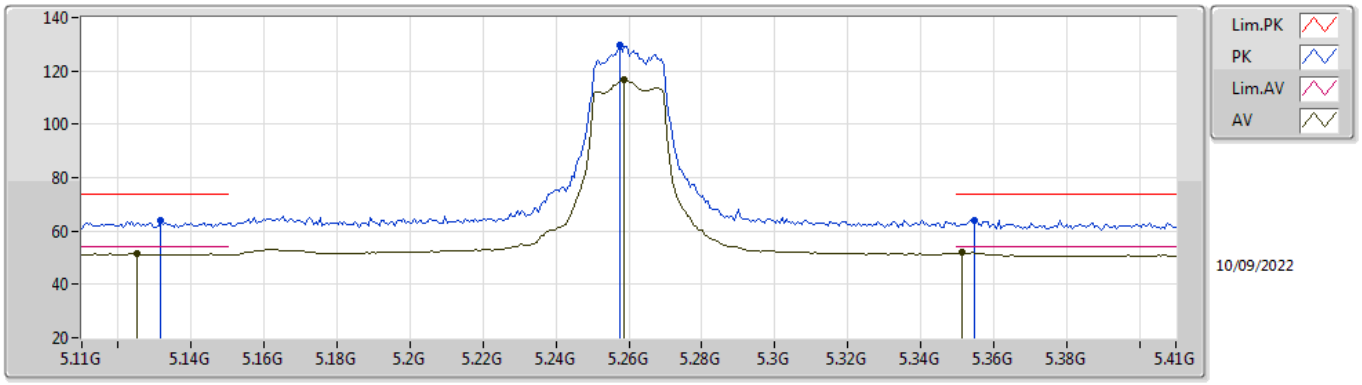


EUT X_2TX
Setting 15.5
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1184G	65.14	74.00	-8.86	57.11	3	Vertical	90	1.71	-	33.54	5.22	30.73
AV	5.1358G	52.93	54.00	-1.07	44.85	3	Vertical	90	1.71	-	33.57	5.24	30.73
PK	5.2606G	130.42	Inf	-Inf	122.09	3	Vertical	90	1.71	-	33.72	5.33	30.72
AV	5.2594G	117.53	Inf	-Inf	109.20	3	Vertical	90	1.71	-	33.72	5.33	30.72
PK	5.4034G	64.56	74.00	-9.44	55.88	3	Vertical	90	1.71	-	34.00	5.40	30.72
AV	5.401G	51.19	54.00	-2.81	42.51	3	Vertical	90	1.71	-	34.00	5.40	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5260MHz_TnomVnom

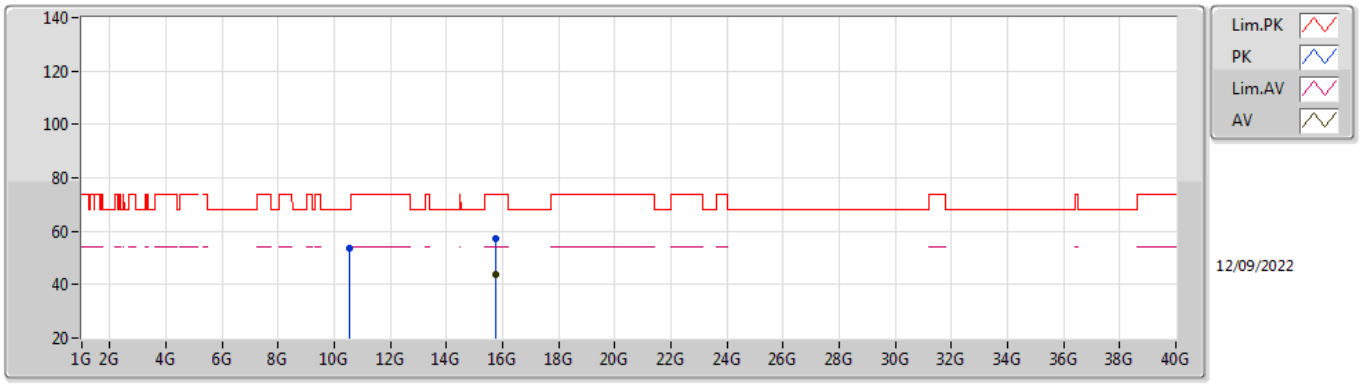


EUT X_2TX
Setting 15.5
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1316G	63.87	74.00	-10.13	55.81	3	Horizontal	90	1.75	-	33.56	5.23	30.73
AV	5.125G	51.45	54.00	-2.55	43.41	3	Horizontal	90	1.75	-	33.55	5.22	30.73
PK	5.2576G	129.68	Inf	-Inf	121.35	3	Horizontal	90	1.75	-	33.72	5.33	30.72
AV	5.2588G	116.69	Inf	-Inf	108.36	3	Horizontal	90	1.75	-	33.72	5.33	30.72
PK	5.3548G	64.14	74.00	-9.86	55.57	3	Horizontal	90	1.75	-	33.91	5.38	30.72
AV	5.3512G	51.83	54.00	-2.17	43.27	3	Horizontal	90	1.75	-	33.90	5.38	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5260MHz_TnomVnom

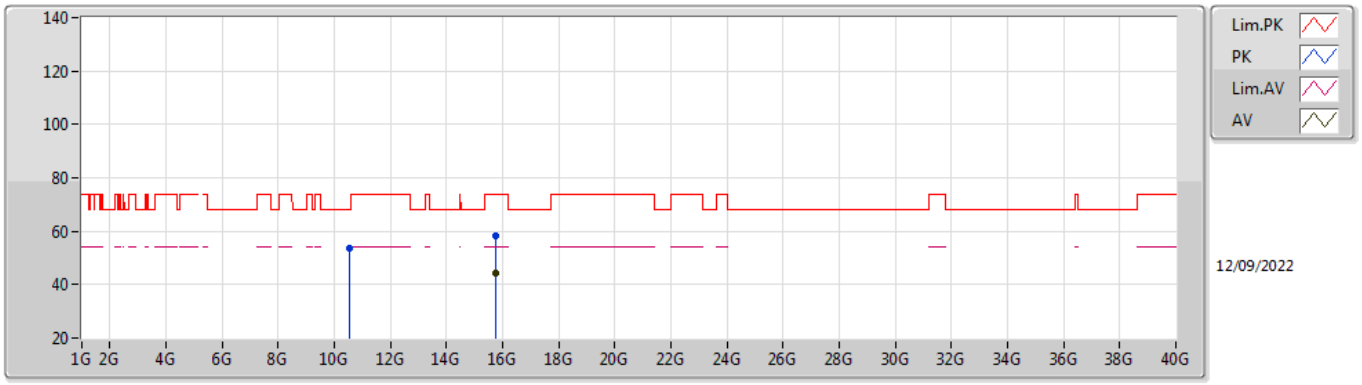


EUT X_2TX
Setting 15.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.52392G	53.59	68.20	-14.61	39.35	3	Vertical	83	1.95	-	38.58	7.51	31.85
PK	15.77676G	57.18	74.00	-16.82	41.25	3	Vertical	112	1.02	-	37.50	9.90	31.47
AV	15.77032G	43.88	54.00	-10.12	27.95	3	Vertical	112	1.02	-	37.50	9.90	31.47

802.11ax HEW20_Nss1,(MCS0)_2TX

5260MHz_TnomVnom

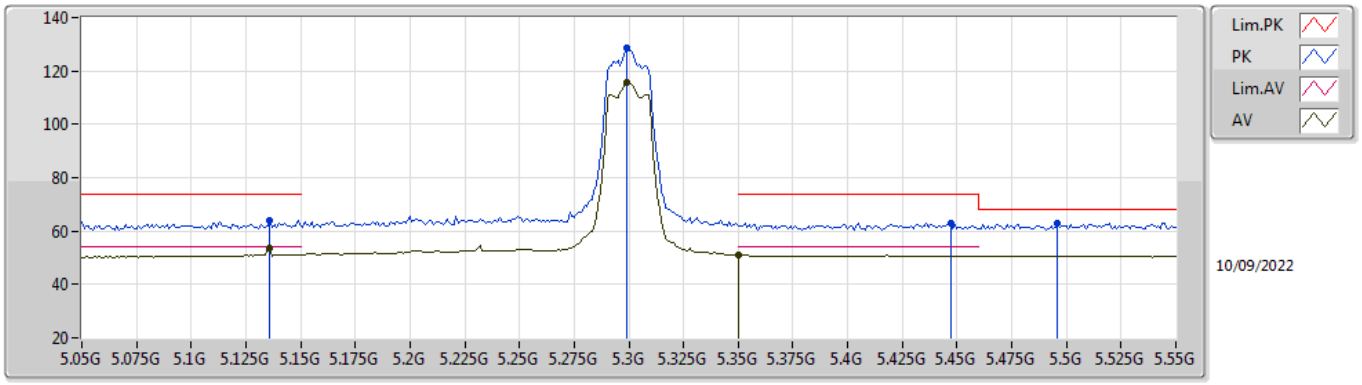


EUT X_2TX
Setting 15.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.51672G	53.59	68.20	-14.61	39.35	3	Horizontal	253	1.99	-	38.58	7.51	31.85
PK	15.77608G	58.10	74.00	-15.90	42.17	3	Horizontal	26	2.85	-	37.50	9.90	31.47
AV	15.7772G	44.10	54.00	-9.90	28.17	3	Horizontal	26	2.85	-	37.50	9.90	31.47

802.11ax HEW20_Nss1,(MCS0)_2TX

5300MHz_TnomVnom

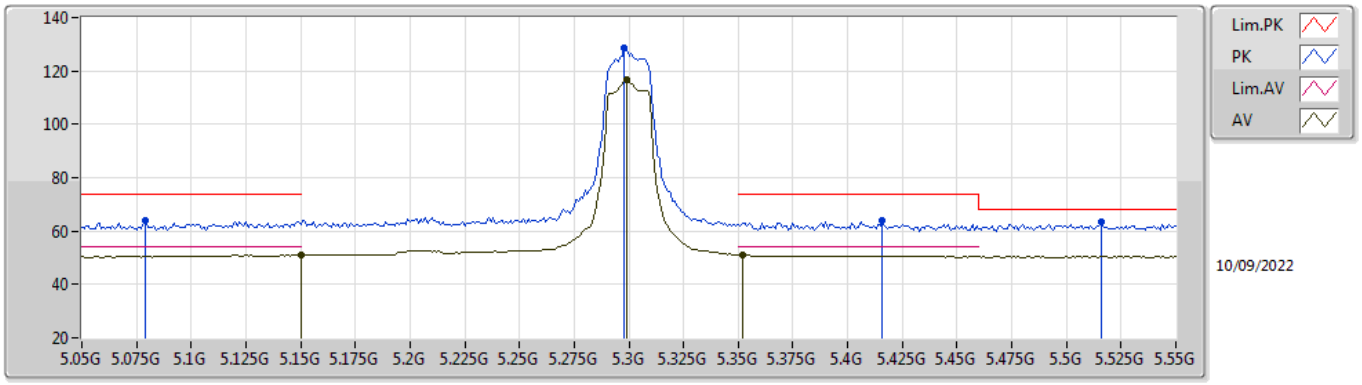


EUT X_2TX
Setting 15.5
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.136G	64.05	74.00	-9.95	55.97	3	Vertical	89	1.79	-	33.57	5.24	30.73
AV	5.136G	53.55	54.00	-0.45	45.47	3	Vertical	89	1.79	-	33.57	5.24	30.73
PK	5.299G	128.73	Inf	-Inf	120.30	3	Vertical	89	1.79	-	33.80	5.35	30.72
AV	5.299G	115.65	Inf	-Inf	107.22	3	Vertical	89	1.79	-	33.80	5.35	30.72
AV	5.35G	50.95	54.00	-3.05	42.39	3	Vertical	89	1.79	-	33.90	5.38	30.72
PK	5.447G	63.05	74.00	-10.95	54.32	3	Vertical	89	1.79	-	34.00	5.45	30.72
PK	5.496G	63.17	68.20	-5.03	54.39	3	Vertical	89	1.79	-	34.00	5.50	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5300MHz_TnomVnom

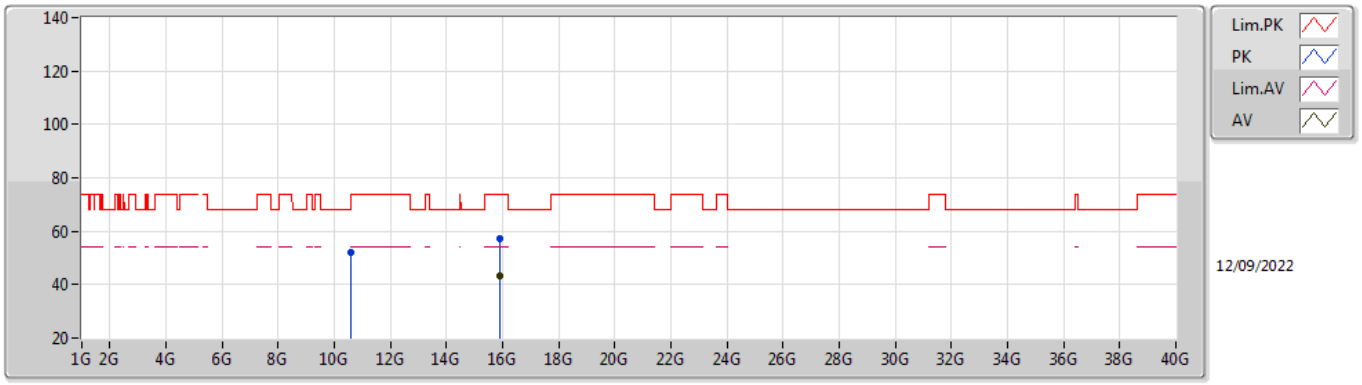


EUT X_2TX
Setting 15.5
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.079G	64.17	74.00	-9.83	56.22	3	Horizontal	90	1.76	-	33.50	5.18	30.73
AV	5.15G	51.08	54.00	-2.92	42.96	3	Horizontal	90	1.76	-	33.60	5.25	30.73
PK	5.298G	128.45	Inf	-Inf	120.02	3	Horizontal	90	1.76	-	33.80	5.35	30.72
AV	5.299G	116.47	Inf	-Inf	108.04	3	Horizontal	90	1.76	-	33.80	5.35	30.72
AV	5.352G	51.00	54.00	-3.00	42.44	3	Horizontal	90	1.76	-	33.90	5.38	30.72
PK	5.416G	63.72	74.00	-10.28	55.02	3	Horizontal	90	1.76	-	34.00	5.42	30.72
PK	5.516G	63.22	68.20	-4.98	54.43	3	Horizontal	90	1.76	-	34.00	5.52	30.73

802.11ax HEW20_Nss1,(MCS0)_2TX

5300MHz_TnomVnom

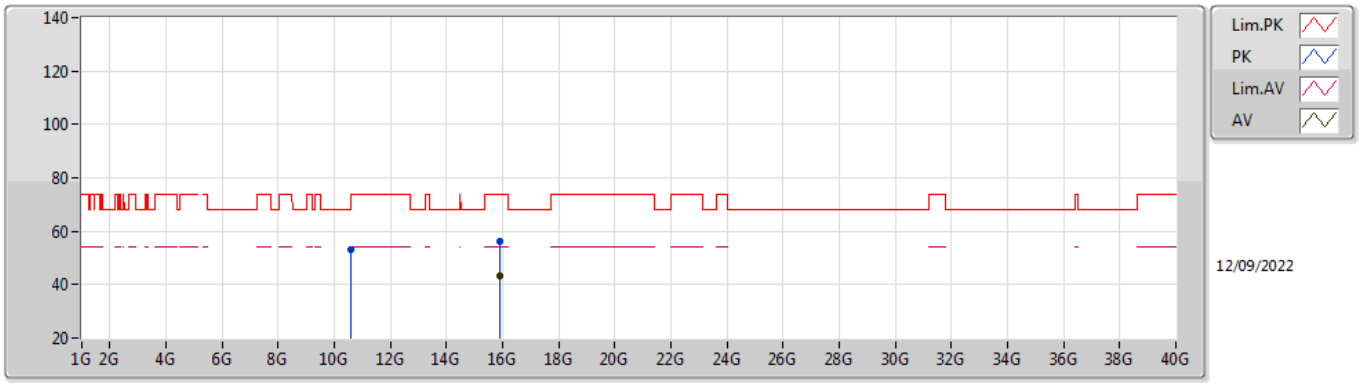


EUT X_2TX
Setting 15.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.59598G	52.23	68.20	-15.97	38.05	3	Vertical	351	2.17	-	38.50	7.54	31.86
PK	15.89918G	57.36	74.00	-16.64	41.65	3	Vertical	132	1.94	-	37.30	9.95	31.54
AV	15.8999G	43.13	54.00	-10.87	27.42	3	Vertical	132	1.94	-	37.30	9.95	31.54

802.11ax HEW20_Nss1,(MCS0)_2TX

5300MHz_TnomVnom

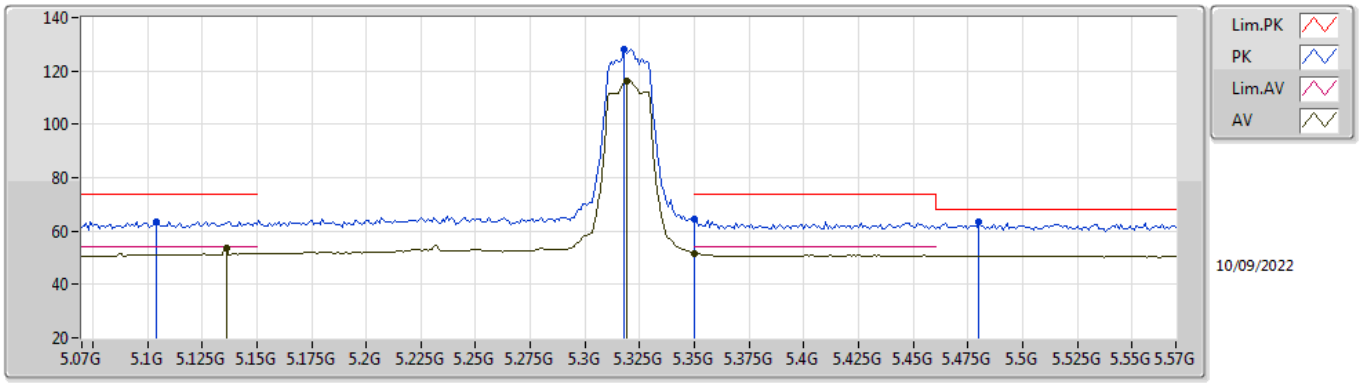


EUT X_2TX
Setting 15.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.59832G	53.01	68.20	-15.19	38.83	3	Horizontal	110	1.03	-	38.50	7.54	31.86
PK	15.90092G	56.28	74.00	-17.72	40.56	3	Horizontal	0	1.37	-	37.30	9.96	31.54
AV	15.9012G	43.10	54.00	-10.90	27.38	3	Horizontal	0	1.37	-	37.30	9.96	31.54

802.11ax HEW20_Nss1,(MCS0)_2TX

5320MHz_TnomVnom

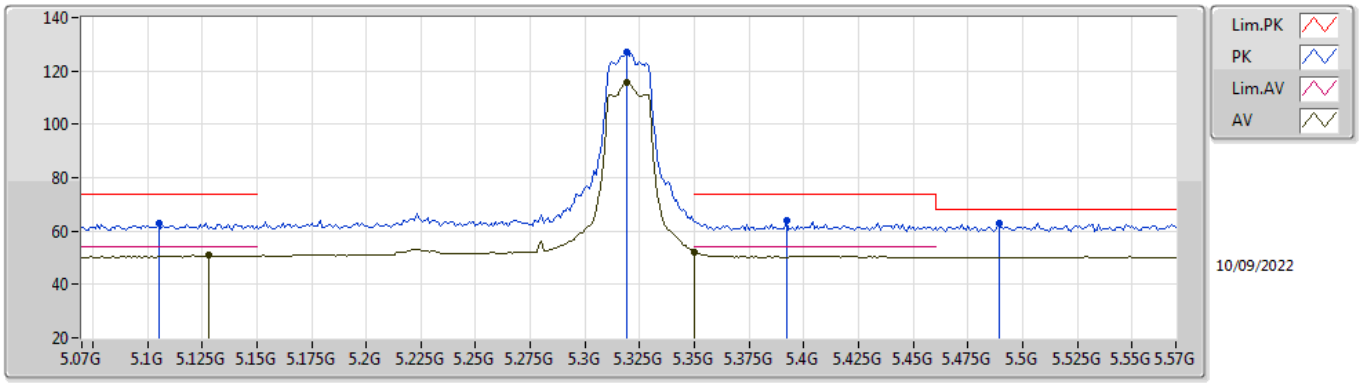


EUT X_2TX
Setting 15
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.104G	63.68	74.00	-10.32	55.70	3	Vertical	90	1.72	-	33.51	5.20	30.73
AV	5.136G	53.87	54.00	-0.13	45.79	3	Vertical	90	1.72	-	33.57	5.24	30.73
PK	5.318G	128.10	Inf	-Inf	119.62	3	Vertical	90	1.72	-	33.84	5.36	30.72
AV	5.319G	116.07	Inf	-Inf	107.59	3	Vertical	90	1.72	-	33.84	5.36	30.72
PK	5.35G	64.35	74.00	-9.65	55.79	3	Vertical	90	1.72	-	33.90	5.38	30.72
AV	5.35G	51.77	54.00	-2.23	43.21	3	Vertical	90	1.72	-	33.90	5.38	30.72
PK	5.48G	63.61	68.20	-4.59	54.85	3	Vertical	90	1.72	-	34.00	5.48	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5320MHz_TnomVnom

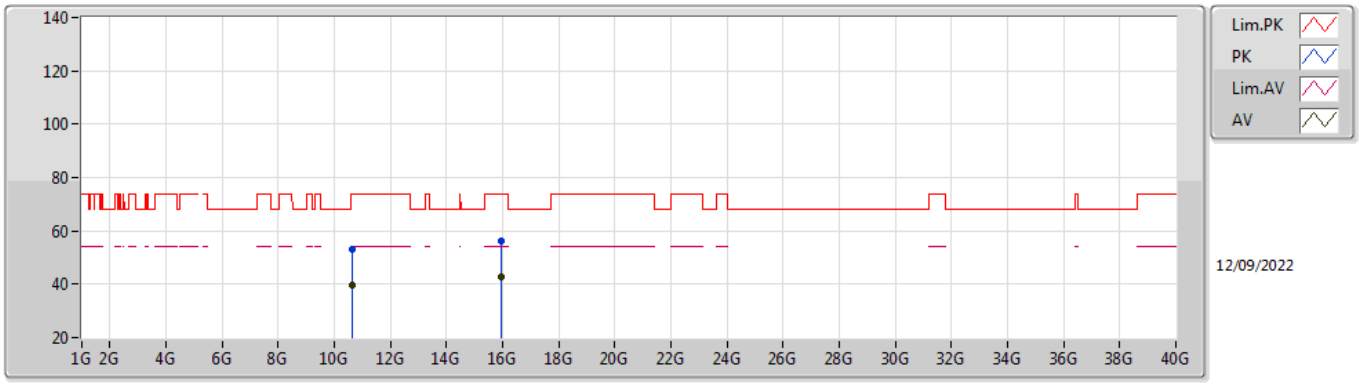


EUT X_2TX
Setting 15
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.105G	62.95	74.00	-11.05	54.97	3	Horizontal	89	1.80	-	33.51	5.20	30.73
AV	5.128G	50.90	54.00	-3.10	42.84	3	Horizontal	89	1.80	-	33.56	5.23	30.73
PK	5.319G	127.06	Inf	-Inf	118.58	3	Horizontal	89	1.80	-	33.84	5.36	30.72
AV	5.319G	115.65	Inf	-Inf	107.17	3	Horizontal	89	1.80	-	33.84	5.36	30.72
AV	5.35G	52.14	54.00	-1.86	43.58	3	Horizontal	89	1.80	-	33.90	5.38	30.72
PK	5.392G	63.71	74.00	-10.29	55.05	3	Horizontal	89	1.80	-	33.98	5.40	30.72
PK	5.489G	62.86	68.20	-5.34	54.09	3	Horizontal	89	1.80	-	34.00	5.49	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5320MHz_TnomVnom

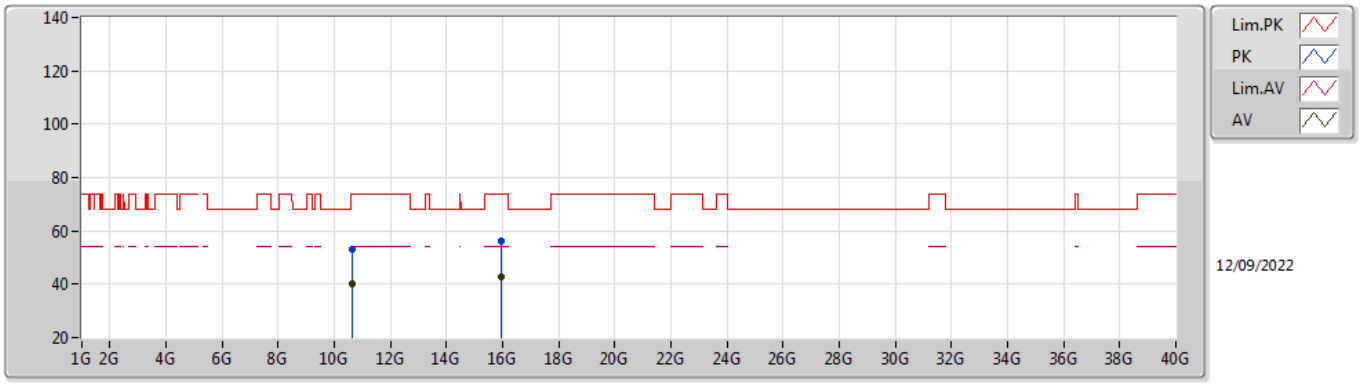


EUT X_2TX
Setting 15
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.65032G	53.17	74.00	-20.83	38.98	3	Vertical	19	2.39	-	38.50	7.56	31.87
AV	10.63928G	39.48	54.00	-14.52	25.29	3	Vertical	19	2.39	-	38.50	7.56	31.87
PK	15.9589G	56.36	74.00	-17.64	40.65	3	Vertical	288	1.38	-	37.30	9.98	31.57
AV	15.9637G	43.01	54.00	-10.99	27.30	3	Vertical	288	1.38	-	37.30	9.98	31.57

802.11ax HEW20_Nss1,(MCS0)_2TX

5320MHz_TnomVnom

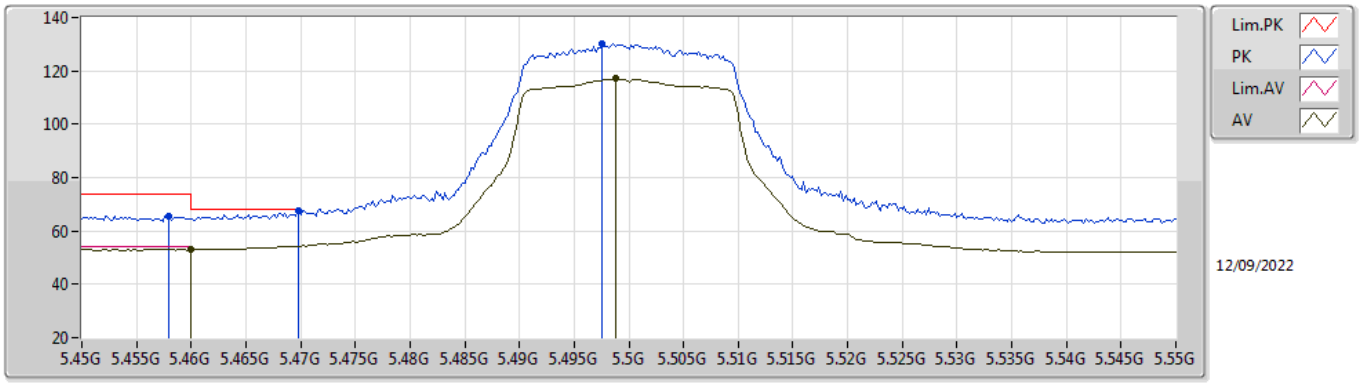


EUT X_2TX
Setting 15
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.63574G	53.31	74.00	-20.69	39.13	3	Horizontal	53	1.72	-	38.50	7.55	31.87
AV	10.63766G	40.22	54.00	-13.78	26.03	3	Horizontal	53	1.72	-	38.50	7.56	31.87
PK	15.95918G	56.46	74.00	-17.54	40.75	3	Horizontal	67	2.91	-	37.30	9.98	31.57
AV	15.9566G	42.96	54.00	-11.04	27.25	3	Horizontal	67	2.91	-	37.30	9.98	31.57

802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TnomVnom

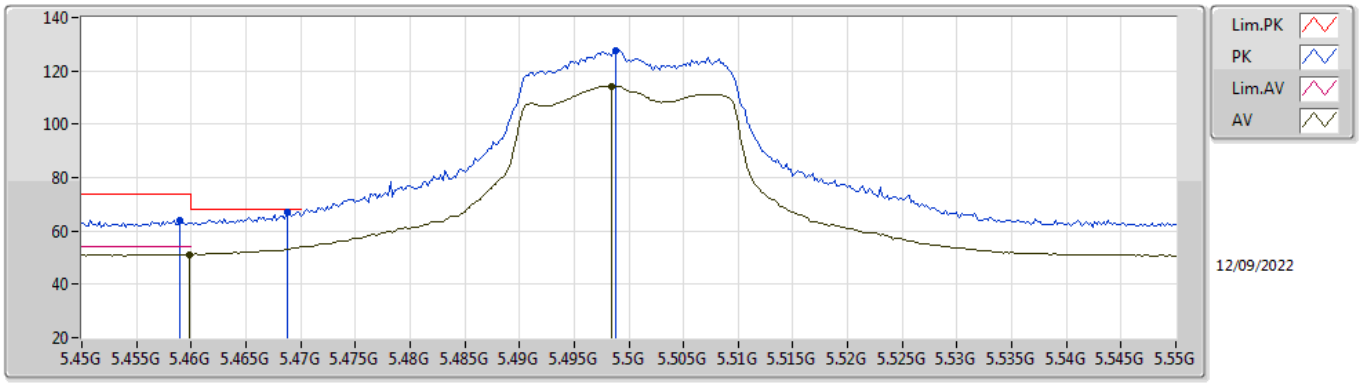


EUT X_2TX
Setting 13
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.458G	65.64	74.00	-8.36	56.90	3	Vertical	90	1.72	-	34.00	5.46	30.72
AV	5.46G	53.09	54.00	-0.91	44.35	3	Vertical	90	1.72	-	34.00	5.46	30.72
PK	5.4698G	67.59	68.20	-0.61	58.84	3	Vertical	90	1.72	-	34.00	5.47	30.72
PK	5.4976G	130.24	Inf	-Inf	121.46	3	Vertical	90	1.72	-	34.00	5.50	30.72
AV	5.4988G	117.01	Inf	-Inf	108.23	3	Vertical	90	1.72	-	34.00	5.50	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TnomVnom

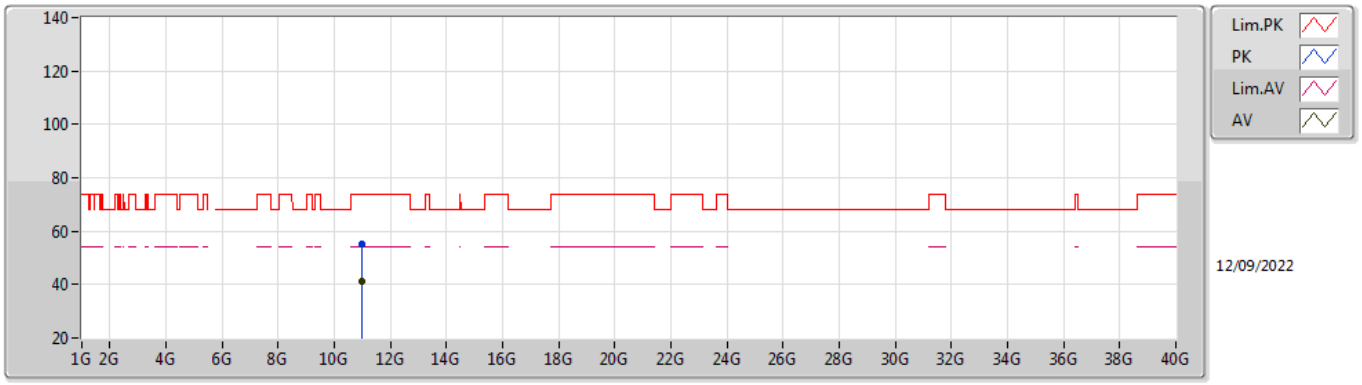


EUT X_2TX
Setting 13
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.459G	63.85	74.00	-10.15	55.11	3	Horizontal	93	1.80	-	34.00	5.46	30.72
AV	5.4598G	51.27	54.00	-2.73	42.53	3	Horizontal	93	1.80	-	34.00	5.46	30.72
PK	5.4688G	67.27	68.20	-0.93	58.52	3	Horizontal	93	1.80	-	34.00	5.47	30.72
PK	5.4988G	127.56	Inf	-Inf	118.78	3	Horizontal	93	1.80	-	34.00	5.50	30.72
AV	5.4984G	114.22	Inf	-Inf	105.44	3	Horizontal	93	1.80	-	34.00	5.50	30.72

802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TnomVnom

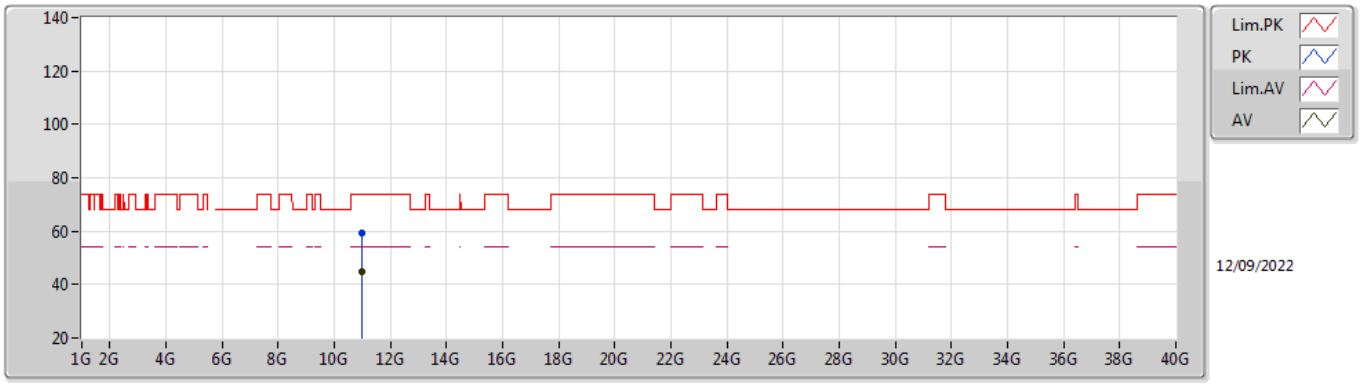


EUT X_2TX
Setting 13
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.00264G	55.09	74.00	-18.91	40.71	3	Vertical	90	1.86	-	38.60	7.70	31.92
AV	11.00378G	41.27	54.00	-12.73	26.89	3	Vertical	90	1.86	-	38.60	7.70	31.92

802.11ax HEW20_Nss1,(MCS0)_2TX

5500MHz_TnomVnom

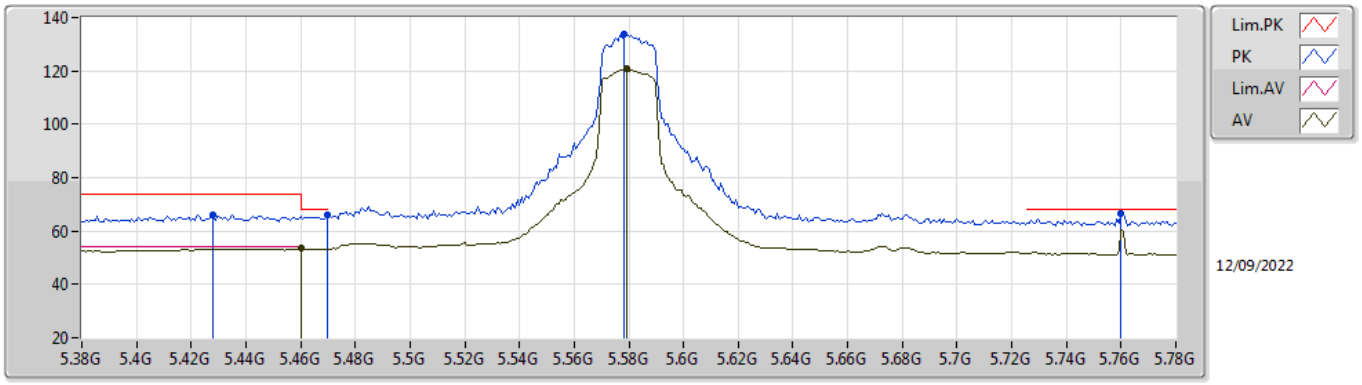


EUT X_2TX
Setting 13
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.00312G	59.21	74.00	-14.79	44.83	3	Horizontal	93	1.78	-	38.60	7.70	31.92
AV	11.00318G	44.80	54.00	-9.20	30.42	3	Horizontal	93	1.78	-	38.60	7.70	31.92

802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TnomVnom

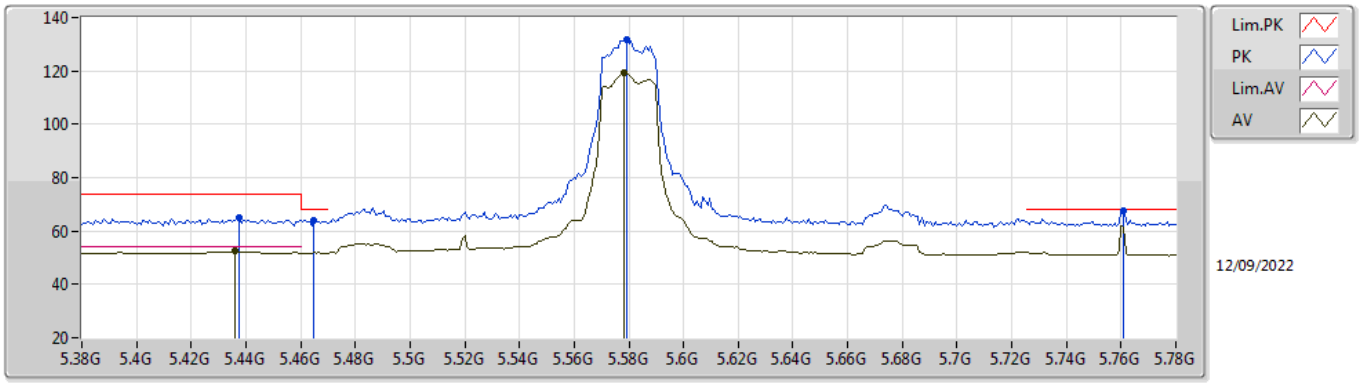


EUT X_2TX
Setting 18.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.428G	66.05	74.00	-7.95	57.34	3	Vertical	90	1.74	-	34.00	5.43	30.72
PK	5.4696G	65.91	68.20	-2.29	57.16	3	Vertical	90	1.74	-	34.00	5.47	30.72
AV	5.46G	53.49	54.00	-0.51	44.75	3	Vertical	90	1.74	-	34.00	5.46	30.72
PK	5.5784G	133.75	Inf	-Inf	125.01	3	Vertical	90	1.74	-	33.94	5.58	30.78
AV	5.5792G	120.80	Inf	-Inf	112.06	3	Vertical	90	1.74	-	33.94	5.58	30.78
PK	5.76G	66.74	68.20	-1.46	58.26	3	Vertical	90	1.74	-	33.80	5.60	30.92

802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TnomVnom

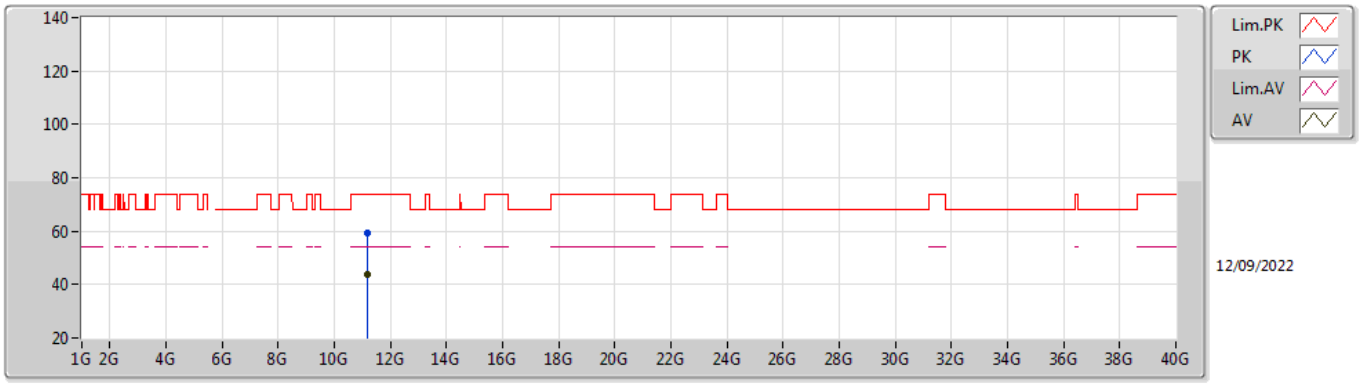


EUT X_2TX
Setting 18.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4376G	64.89	74.00	-9.11	56.17	3	Horizontal	91	1.80	-	34.00	5.44	30.72
AV	5.436G	52.46	54.00	-1.54	43.74	3	Horizontal	91	1.80	-	34.00	5.44	30.72
PK	5.4648G	63.85	68.20	-4.35	55.11	3	Horizontal	91	1.80	-	34.00	5.46	30.72
PK	5.5792G	131.68	Inf	-Inf	122.94	3	Horizontal	91	1.80	-	33.94	5.58	30.78
AV	5.5784G	119.35	Inf	-Inf	110.61	3	Horizontal	91	1.80	-	33.94	5.58	30.78
PK	5.7608G	67.81	68.20	-0.39	59.33	3	Horizontal	91	1.80	-	33.80	5.60	30.92

802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TnomVnom

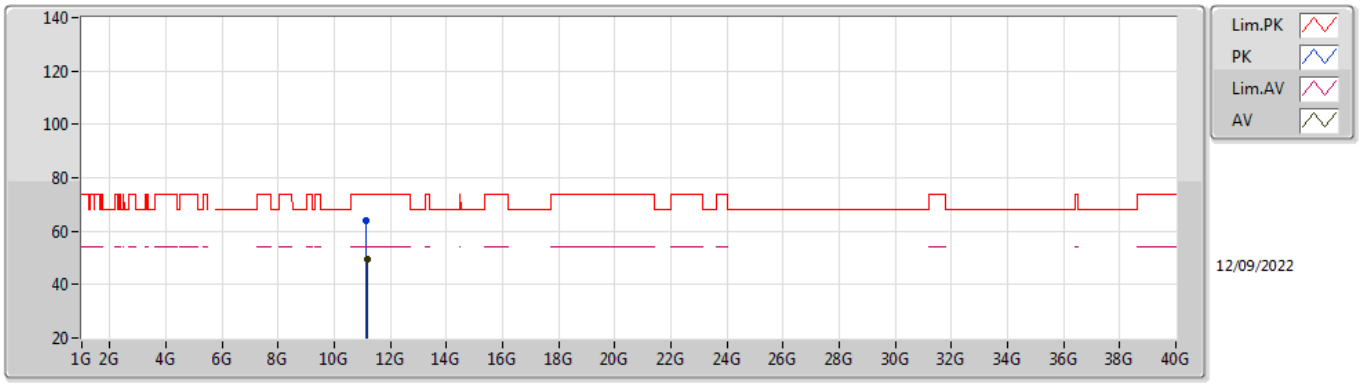


EUT X_2TX
Setting 18.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.16204G	59.07	74.00	-14.93	44.53	3	Vertical	66	1.95	-	38.76	7.76	31.98
AV	11.1624G	44.00	54.00	-10.00	29.46	3	Vertical	66	1.95	-	38.76	7.76	31.98

802.11ax HEW20_Nss1,(MCS0)_2TX

5580MHz_TnomVnom

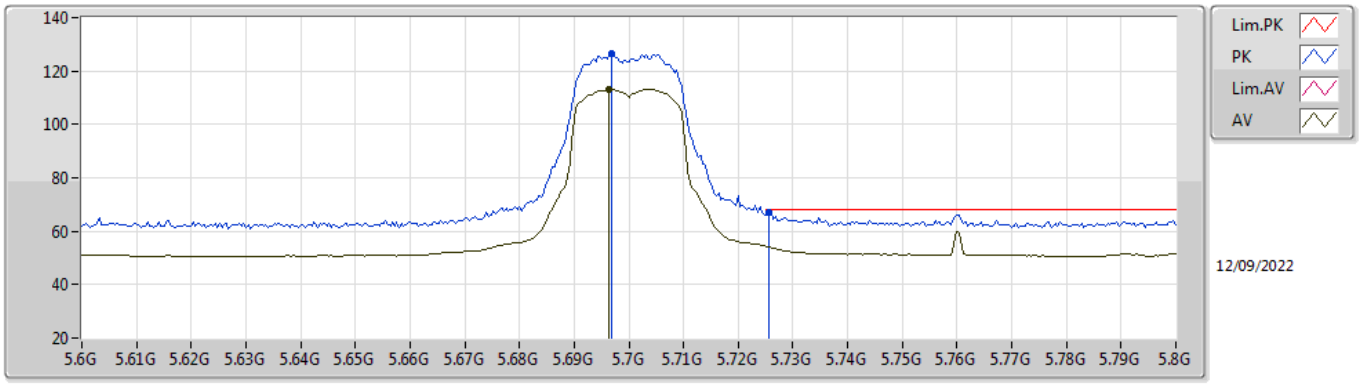


EUT X_2TX
Setting 18.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.15484G	64.11	74.00	-9.89	49.58	3	Horizontal	94	1.80	-	38.75	7.76	31.98
AV	11.1639G	49.25	54.00	-4.75	34.71	3	Horizontal	94	1.80	-	38.76	7.77	31.99

802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TnomVnom

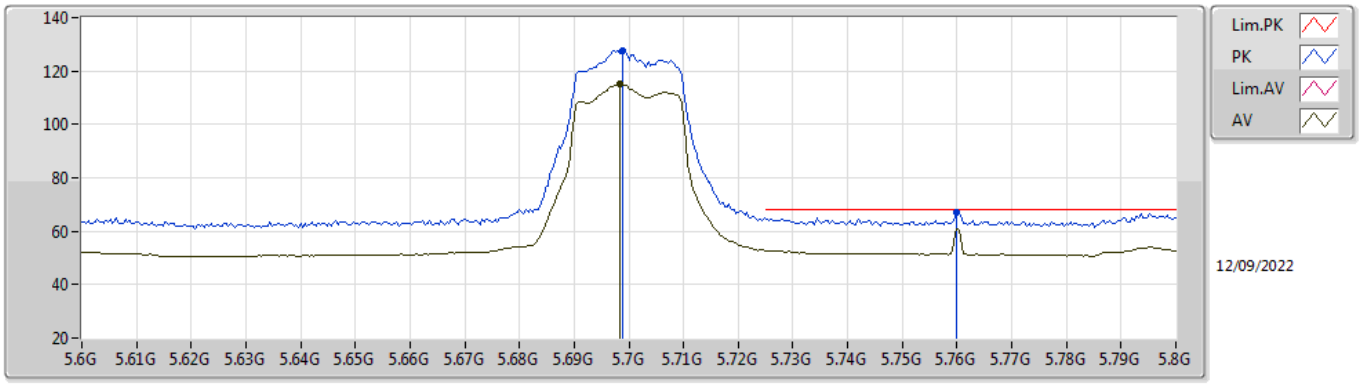


EUT X_2TX
Setting 13.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6968G	126.32	Inf	-Inf	117.70	3	Vertical	90	1.78	-	33.89	5.60	30.87
AV	5.6964G	113.02	Inf	-Inf	104.40	3	Vertical	90	1.78	-	33.89	5.60	30.87
PK	5.7256G	67.22	68.20	-0.98	58.66	3	Vertical	90	1.78	-	33.85	5.60	30.89

802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TnomVnom

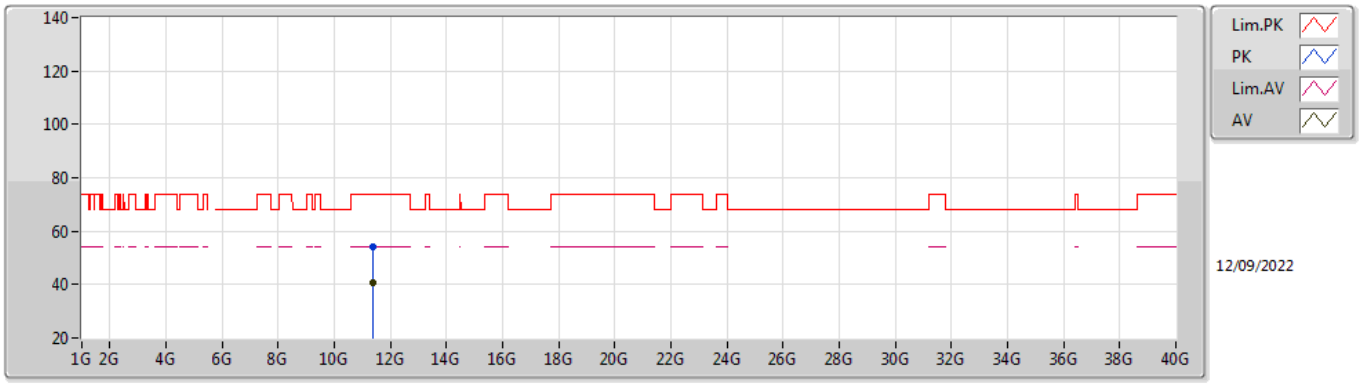


EUT X_2TX
Setting 13.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6988G	127.77	Inf	-Inf	119.14	3	Horizontal	92	1.78	-	33.90	5.60	30.87
AV	5.6984G	115.02	Inf	-Inf	106.39	3	Horizontal	92	1.78	-	33.90	5.60	30.87
PK	5.76G	67.22	68.20	-0.98	58.74	3	Horizontal	92	1.78	-	33.80	5.60	30.92

802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TnomVnom

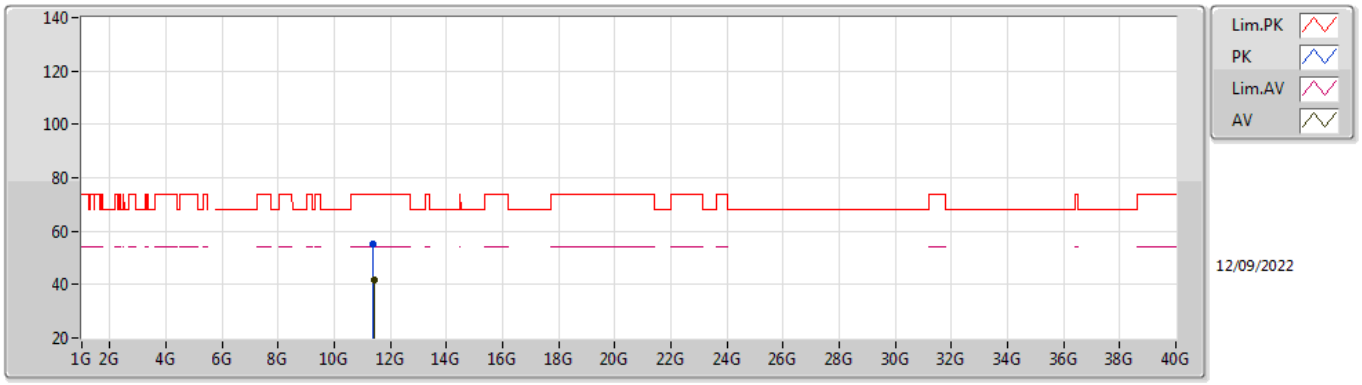


EUT X_2TX
Setting 13.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.3949G	54.15	74.00	-19.85	39.57	3	Vertical	115	1.85	-	38.80	7.86	32.08
AV	11.39502G	40.59	54.00	-13.41	26.01	3	Vertical	115	1.85	-	38.80	7.86	32.08

802.11ax HEW20_Nss1,(MCS0)_2TX

5700MHz_TnomVnom

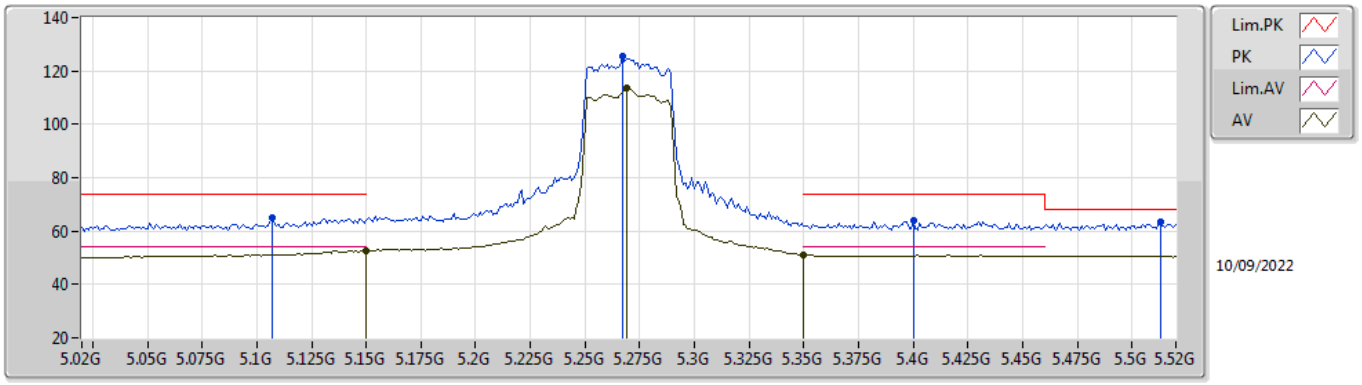


EUT X_2TX
Setting 13.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.39448G	55.07	74.00	-18.93	40.49	3	Horizontal	64	1.79	-	38.80	7.86	32.08
AV	11.40174G	41.70	54.00	-12.30	27.12	3	Horizontal	64	1.79	-	38.80	7.86	32.08

802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TnomVnom

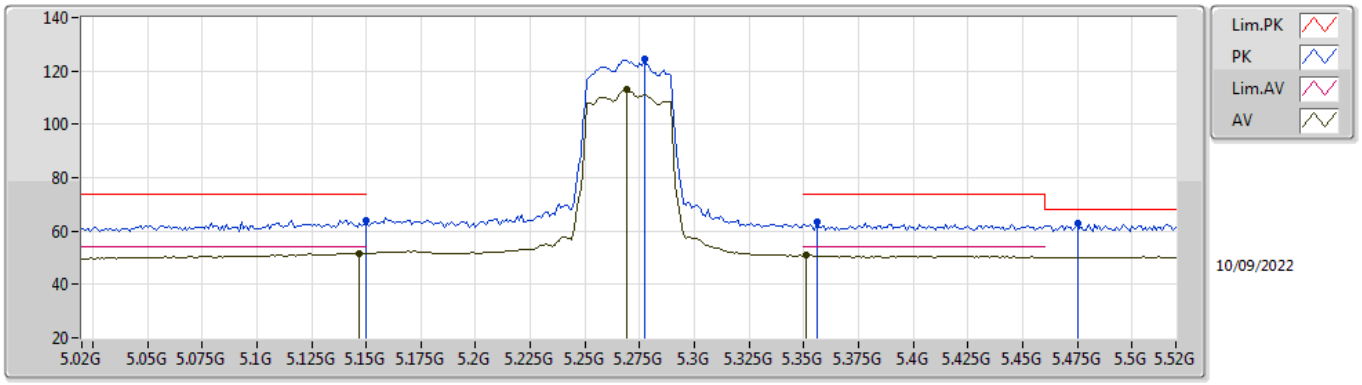


EUT X_2TX
Setting 15
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.107G	65.19	74.00	-8.81	57.20	3	Vertical	91	1.70	-	33.51	5.21	30.73
AV	5.15G	52.69	54.00	-1.31	44.57	3	Vertical	91	1.70	-	33.60	5.25	30.73
PK	5.267G	125.26	Inf	-Inf	116.92	3	Vertical	91	1.70	-	33.73	5.33	30.72
AV	5.269G	113.49	Inf	-Inf	105.14	3	Vertical	91	1.70	-	33.74	5.33	30.72
PK	5.4G	63.98	74.00	-10.02	55.30	3	Vertical	91	1.70	-	34.00	5.40	30.72
AV	5.35G	50.92	54.00	-3.08	42.36	3	Vertical	91	1.70	-	33.90	5.38	30.72
PK	5.513G	63.52	68.20	-4.68	54.74	3	Vertical	91	1.70	-	34.00	5.51	30.73

802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TnomVnom

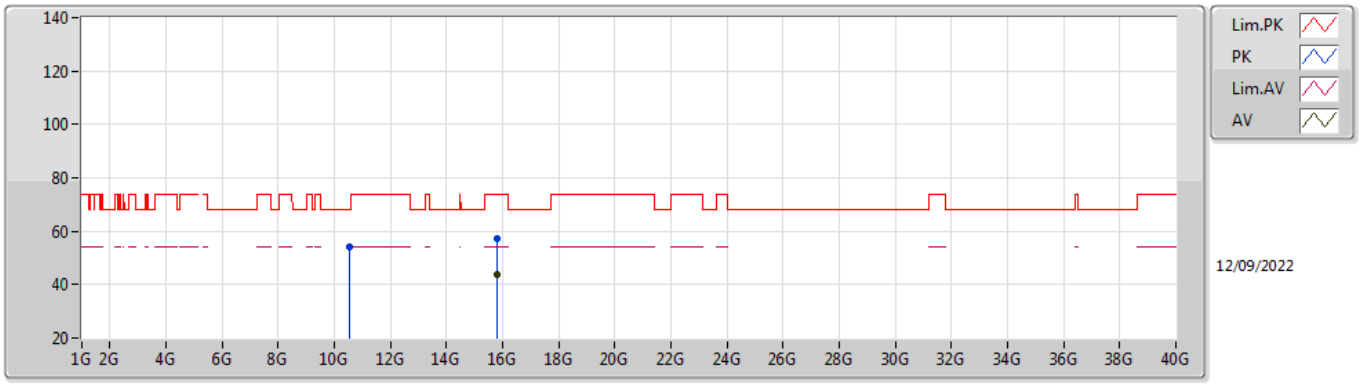


EUT X_2TX
Setting 15
02-F-R-5-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	64.19	74.00	-9.81	56.07	3	Horizontal	89	1.75	-	33.60	5.25	30.73
AV	5.147G	51.59	54.00	-2.41	43.48	3	Horizontal	89	1.75	-	33.59	5.25	30.73
PK	5.277G	124.41	Inf	-Inf	116.04	3	Horizontal	89	1.75	-	33.75	5.34	30.72
AV	5.269G	113.30	Inf	-Inf	104.95	3	Horizontal	89	1.75	-	33.74	5.33	30.72
PK	5.356G	63.43	74.00	-10.57	54.86	3	Horizontal	89	1.75	-	33.91	5.38	30.72
AV	5.351G	50.84	54.00	-3.16	42.28	3	Horizontal	89	1.75	-	33.90	5.38	30.72
PK	5.475G	62.71	68.20	-5.49	53.96	3	Horizontal	89	1.75	-	34.00	5.47	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TnomVnom

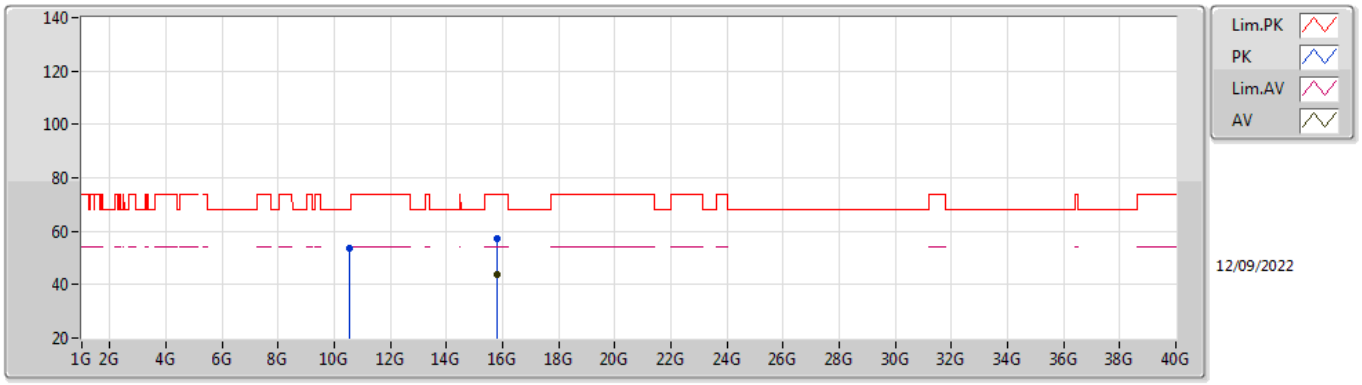


EUT X_2TX
Setting 15
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.53572G	53.98	68.20	-14.22	39.77	3	Vertical	147	2.80	-	38.56	7.51	31.86
PK	15.80332G	57.38	74.00	-16.62	41.47	3	Vertical	207	2.18	-	37.49	9.91	31.49
AV	15.8108G	43.81	54.00	-10.19	27.91	3	Vertical	207	2.18	-	37.48	9.91	31.49

802.11ax HEW40_Nss1,(MCS0)_2TX

5270MHz_TnomVnom

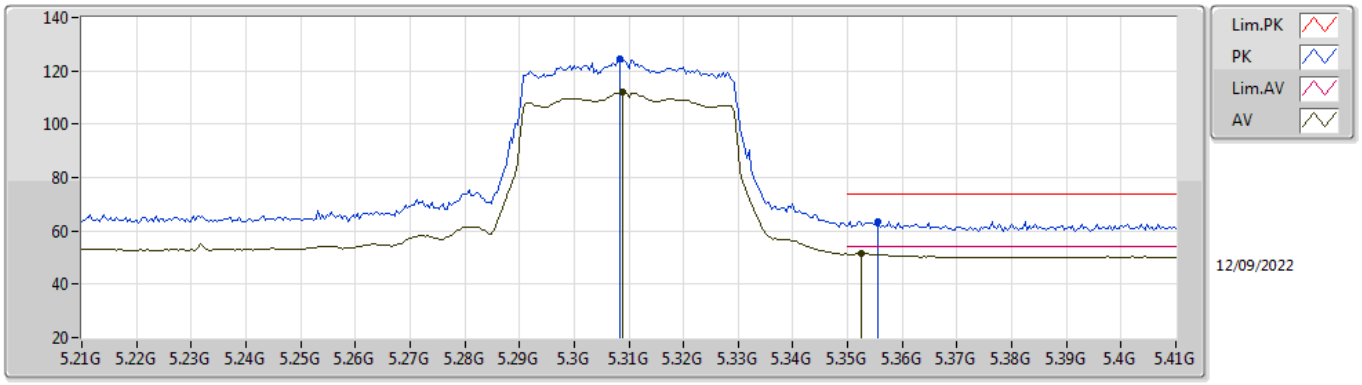


EUT X_2TX
Setting 15
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.53004G	53.53	68.20	-14.67	39.30	3	Horizontal	136	2.14	-	38.57	7.51	31.85
PK	15.81596G	57.08	74.00	-16.92	41.18	3	Horizontal	216	1.71	-	37.47	9.92	31.49
AV	15.80648G	43.71	54.00	-10.29	27.80	3	Horizontal	216	1.71	-	37.49	9.91	31.49

802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz_TnomVnom

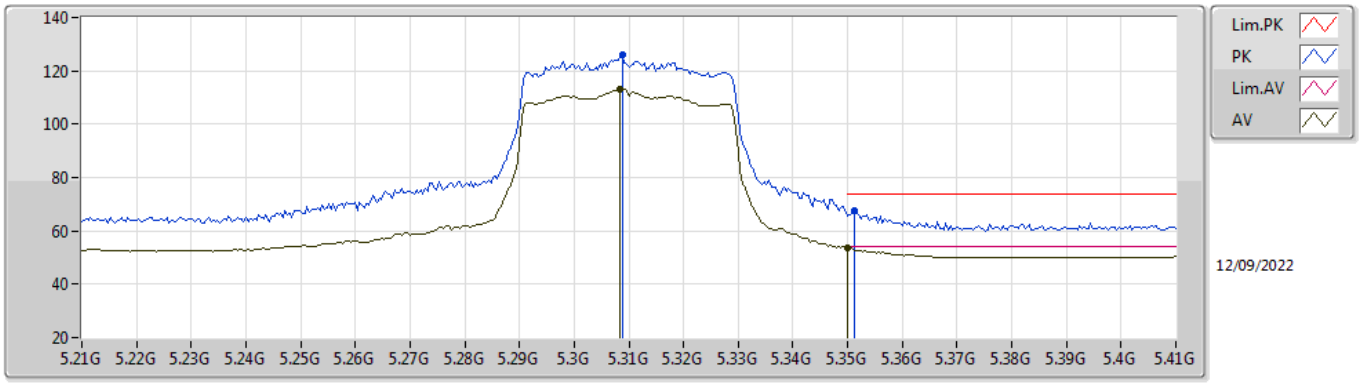


EUT X_2TX
Setting 15.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.3084G	124.25	Inf	-Inf	115.80	3	Vertical	91	1.66	-	33.82	5.35	30.72
AV	5.3088G	112.09	Inf	-Inf	103.64	3	Vertical	91	1.66	-	33.82	5.35	30.72
PK	5.3556G	63.63	74.00	-10.37	55.06	3	Vertical	91	1.66	-	33.91	5.38	30.72
AV	5.3524G	51.42	54.00	-2.58	42.86	3	Vertical	91	1.66	-	33.90	5.38	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz_TnomVnom

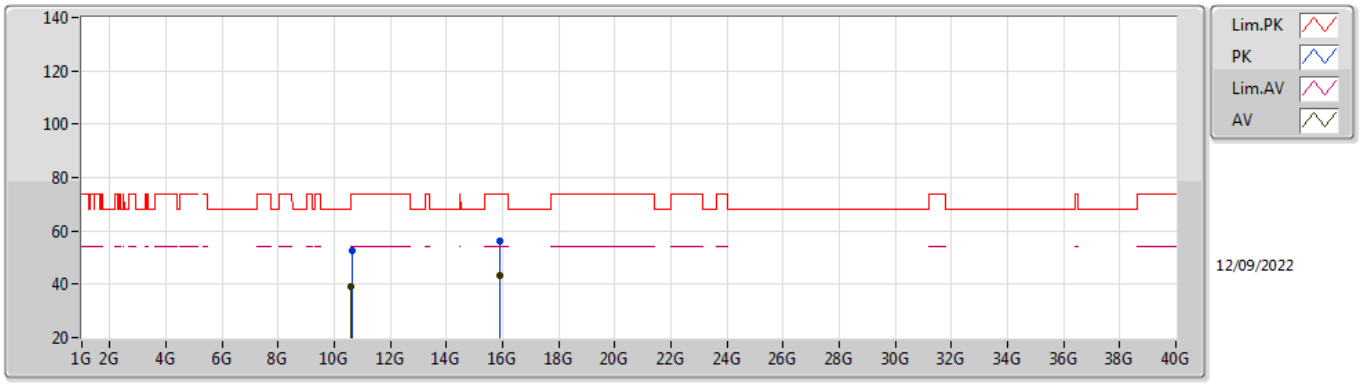


EUT X_2TX
Setting 15.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.3088G	126.13	Inf	-Inf	117.68	3	Horizontal	89	1.77	-	33.82	5.35	30.72
AV	5.3084G	113.09	Inf	-Inf	104.64	3	Horizontal	89	1.77	-	33.82	5.35	30.72
PK	5.3512G	67.65	74.00	-6.35	59.09	3	Horizontal	89	1.77	-	33.90	5.38	30.72
AV	5.35G	53.64	54.00	-0.36	45.08	3	Horizontal	89	1.77	-	33.90	5.38	30.72

802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz_TnomVnom

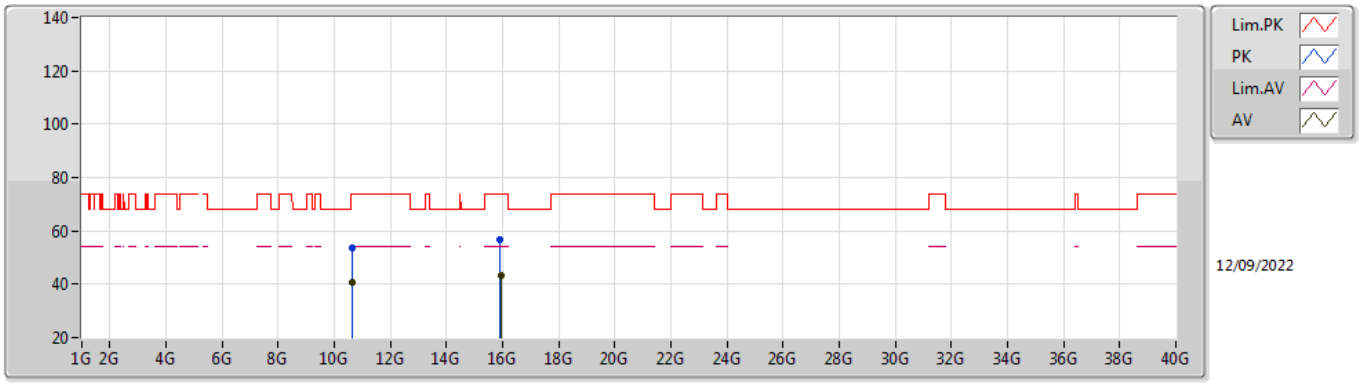


EUT X_2TX
Setting 15.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.62312G	52.75	74.00	-21.25	38.57	3	Vertical	89	1.82	-	38.50	7.55	31.87
AV	10.60968G	39.34	54.00	-14.66	25.17	3	Vertical	89	1.82	-	38.50	7.54	31.87
PK	15.92334G	56.39	74.00	-17.61	40.67	3	Vertical	91	1.41	-	37.30	9.97	31.55
AV	15.9171G	43.35	54.00	-10.65	27.64	3	Vertical	91	1.41	-	37.30	9.96	31.55

802.11ax HEW40_Nss1,(MCS0)_2TX

5310MHz_TnomVnom

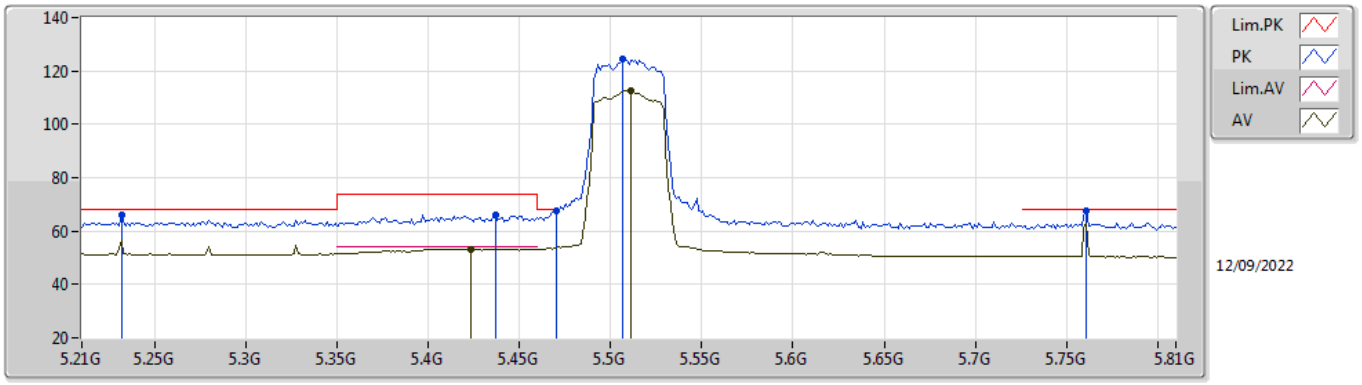


EUT X_2TX
Setting 15.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.62612G	53.59	74.00	-20.41	39.41	3	Horizontal	87	1.80	-	38.50	7.55	31.87
AV	10.61694G	40.59	54.00	-13.41	26.41	3	Horizontal	87	1.80	-	38.50	7.55	31.87
PK	15.91824G	56.50	74.00	-17.50	40.79	3	Horizontal	197	2.47	-	37.30	9.96	31.55
AV	15.93114G	43.29	54.00	-10.71	27.57	3	Horizontal	197	2.47	-	37.30	9.97	31.55

802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TnomVnom

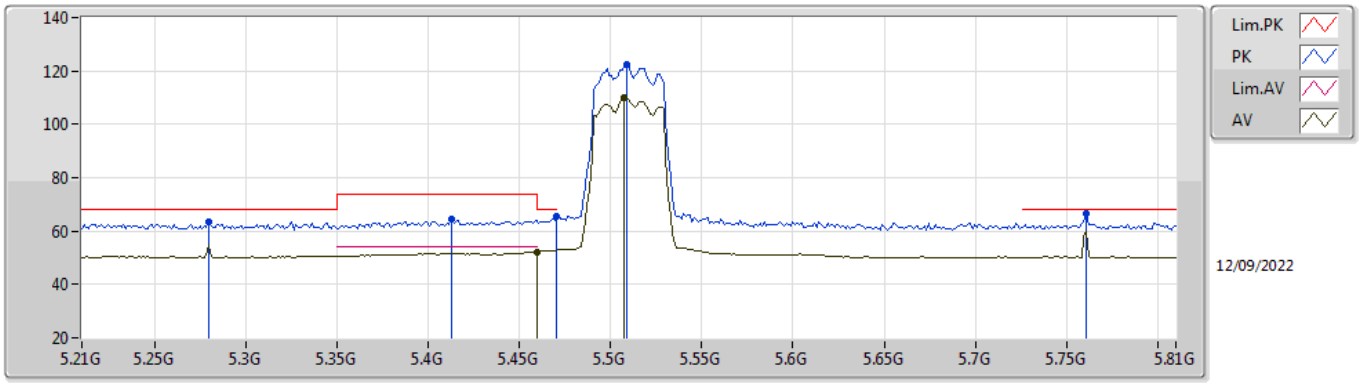


EUT X_2TX
Setting 11
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.2316G	66.07	68.20	-2.13	57.78	3	Vertical	91	1.76	-	33.70	5.32	30.73
PK	5.4368G	65.86	74.00	-8.14	57.14	3	Vertical	91	1.76	-	34.00	5.44	30.72
AV	5.4236G	53.33	54.00	-0.67	44.63	3	Vertical	91	1.76	-	34.00	5.42	30.72
PK	5.47G	67.61	68.20	-0.59	58.86	3	Vertical	91	1.76	-	34.00	5.47	30.72
PK	5.5064G	124.38	Inf	-Inf	115.59	3	Vertical	91	1.76	-	34.00	5.51	30.72
AV	5.5112G	112.64	Inf	-Inf	103.86	3	Vertical	91	1.76	-	34.00	5.51	30.73
PK	5.7608G	67.80	68.20	-0.40	59.32	3	Vertical	91	1.76	-	33.80	5.60	30.92

802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TnomVnom

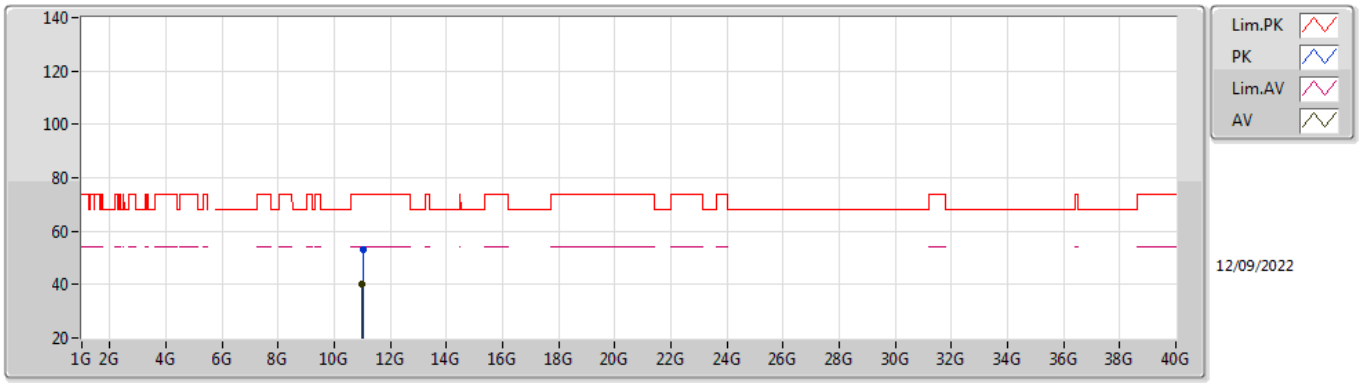


EUT X_2TX
Setting 11
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.2796G	63.43	68.20	-4.77	55.05	3	Horizontal	92	1.80	-	33.76	5.34	30.72
PK	5.4128G	64.73	74.00	-9.27	56.04	3	Horizontal	92	1.80	-	34.00	5.41	30.72
PK	5.47G	65.48	68.20	-2.72	56.73	3	Horizontal	92	1.80	-	34.00	5.47	30.72
AV	5.4596G	52.17	54.00	-1.83	43.43	3	Horizontal	92	1.80	-	34.00	5.46	30.72
PK	5.5088G	122.23	Inf	-Inf	113.45	3	Horizontal	92	1.80	-	34.00	5.51	30.73
AV	5.5076G	110.15	Inf	-Inf	101.37	3	Horizontal	92	1.80	-	34.00	5.51	30.73
PK	5.7608G	66.72	68.20	-1.48	58.24	3	Horizontal	92	1.80	-	33.80	5.60	30.92

802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TnomVnom

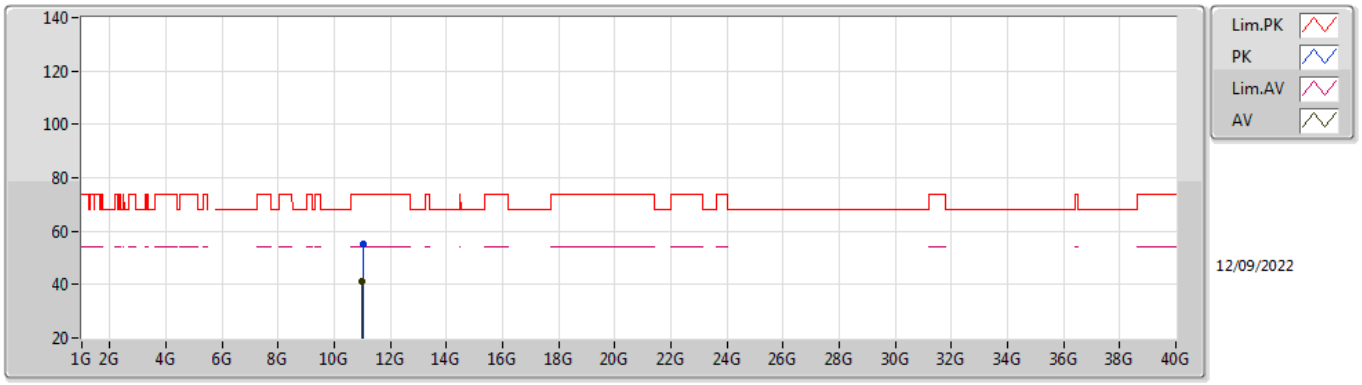


EUT X_2TX
Setting 11
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.01682G	53.25	74.00	-20.75	38.85	3	Vertical	333	2.51	-	38.62	7.71	31.93
AV	11.00524G	40.06	54.00	-13.94	25.67	3	Vertical	333	2.51	-	38.61	7.70	31.92

802.11ax HEW40_Nss1,(MCS0)_2TX

5510MHz_TnomVnom

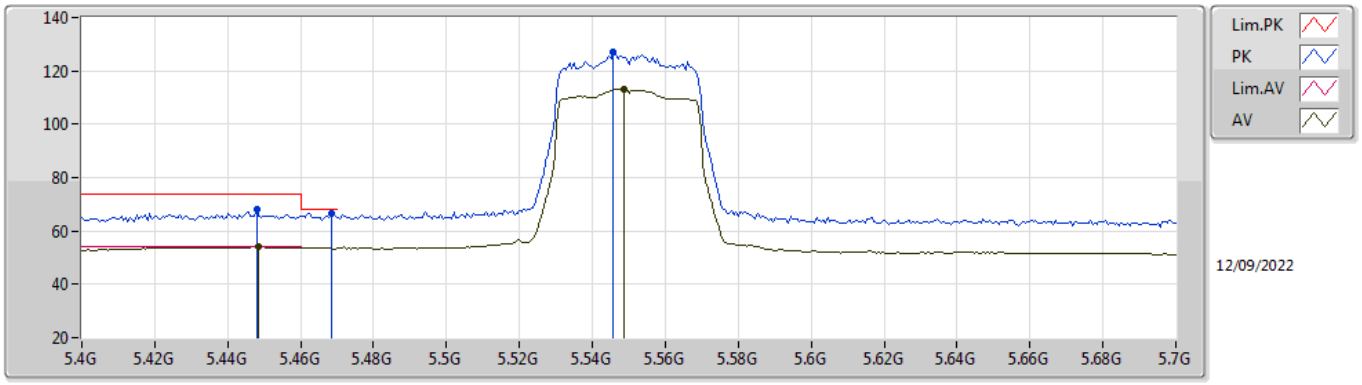


EUT X_2TX
Setting 11
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.01316G	55.39	74.00	-18.61	41.00	3	Horizontal	92	1.81	-	38.61	7.71	31.93
AV	11.005G	41.31	54.00	-12.69	26.92	3	Horizontal	92	1.81	-	38.61	7.70	31.92

802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TnomVnom

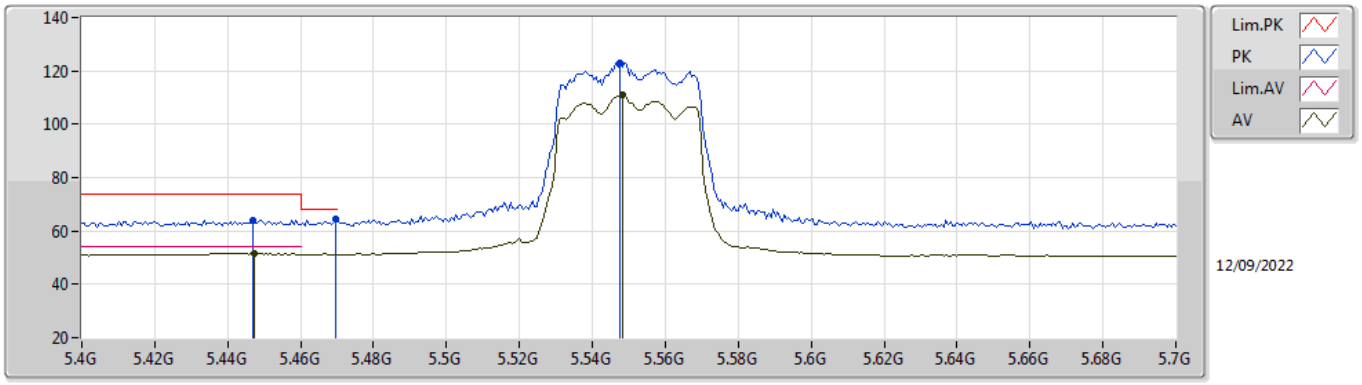


EUT X_2TX
Setting 11.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.448G	67.92	74.00	-6.08	59.19	3	Vertical	90	1.77	-	34.00	5.45	30.72
AV	5.4486G	53.97	54.00	-0.03	45.24	3	Vertical	90	1.77	-	34.00	5.45	30.72
PK	5.4684G	66.66	68.20	-1.54	57.91	3	Vertical	90	1.77	-	34.00	5.47	30.72
PK	5.5458G	127.20	Inf	-Inf	118.40	3	Vertical	90	1.77	-	34.00	5.55	30.75
AV	5.5488G	113.20	Inf	-Inf	104.41	3	Vertical	90	1.77	-	34.00	5.55	30.76

802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TnomVnom

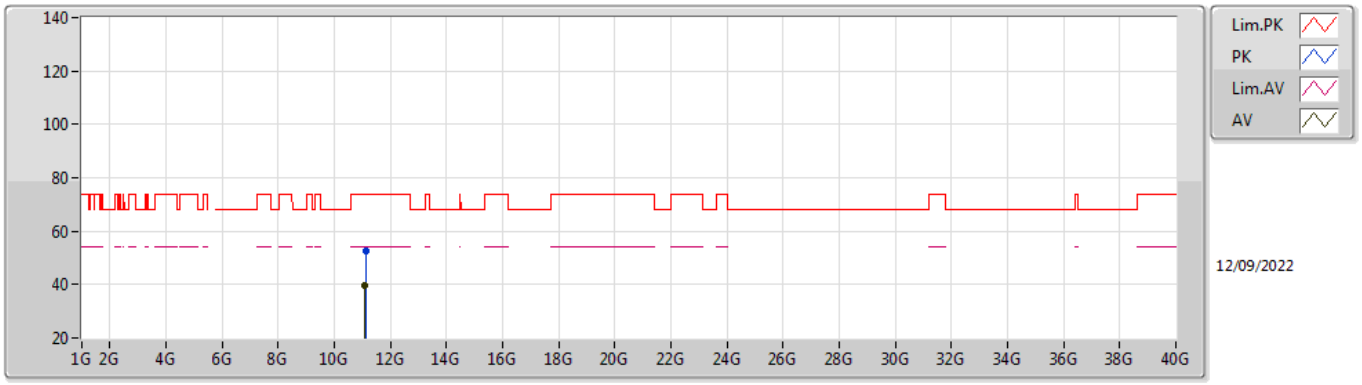


EUT X_2TX
Setting 11.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.4468G	64.03	74.00	-9.97	55.30	3	Horizontal	93	1.80	-	34.00	5.45	30.72
AV	5.4474G	51.60	54.00	-2.40	42.87	3	Horizontal	93	1.80	-	34.00	5.45	30.72
PK	5.4696G	64.30	68.20	-3.90	55.55	3	Horizontal	93	1.80	-	34.00	5.47	30.72
PK	5.5476G	122.92	Inf	-Inf	114.13	3	Horizontal	93	1.80	-	34.00	5.55	30.76
AV	5.5482G	110.80	Inf	-Inf	102.01	3	Horizontal	93	1.80	-	34.00	5.55	30.76

802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TnomVnom

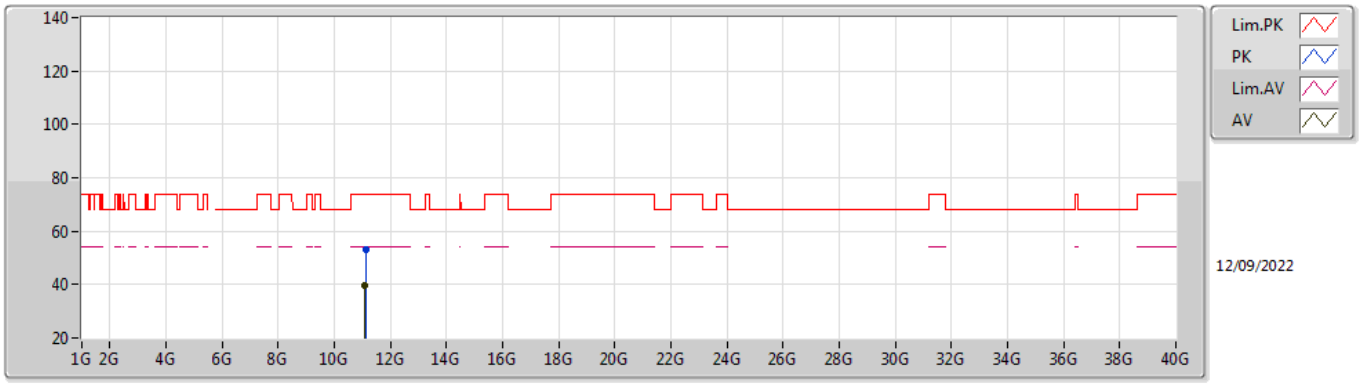


EUT X_2TX
Setting 11.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.1147G	52.74	74.00	-21.26	38.25	3	Vertical	286	1.12	-	38.71	7.75	31.97
AV	11.10276G	39.58	54.00	-14.42	25.10	3	Vertical	286	1.12	-	38.70	7.74	31.96

802.11ax HEW40_Nss1,(MCS0)_2TX

5550MHz_TnomVnom

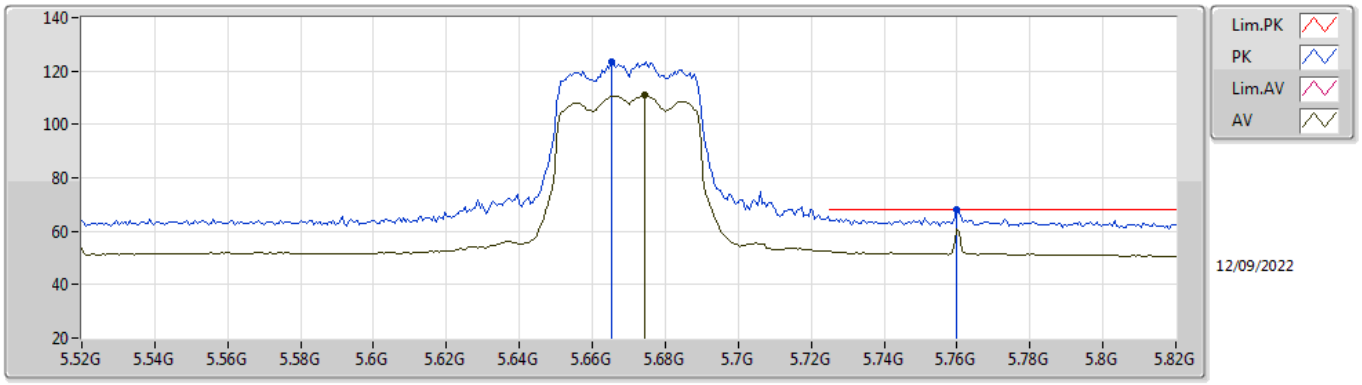


EUT X_2TX
Setting 11.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.11176G	53.18	74.00	-20.82	38.69	3	Horizontal	116	1.06	-	38.71	7.74	31.96
AV	11.10348G	39.55	54.00	-14.45	25.07	3	Horizontal	116	1.06	-	38.70	7.74	31.96

802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TnomVnom

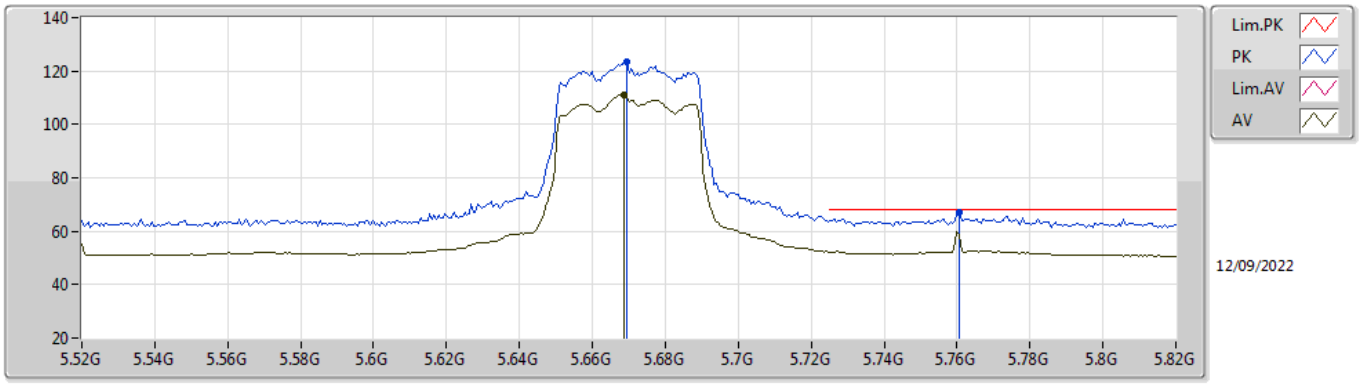


EUT X_2TX
Setting 12
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6652G	123.53	Inf	-Inf	114.95	3	Vertical	90	1.79	-	33.83	5.60	30.85
AV	5.6742G	110.79	Inf	-Inf	102.19	3	Vertical	90	1.79	-	33.85	5.60	30.85
PK	5.76G	68.09	68.20	-0.11	59.61	3	Vertical	90	1.79	-	33.80	5.60	30.92

802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TnomVnom

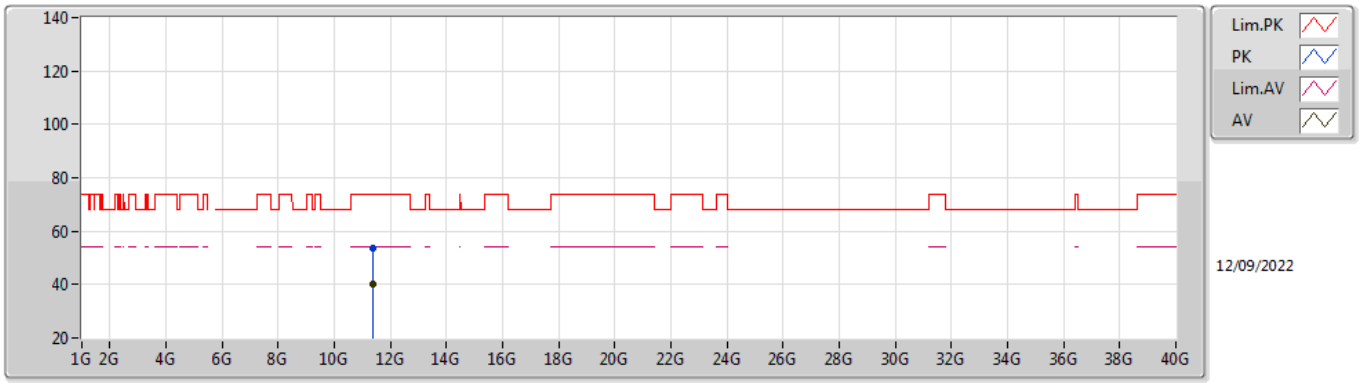


EUT X_2TX
Setting 12
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.6694G	123.51	Inf	-Inf	114.92	3	Horizontal	92	1.80	-	33.84	5.60	30.85
AV	5.6688G	111.10	Inf	-Inf	102.51	3	Horizontal	92	1.80	-	33.84	5.60	30.85
PK	5.7606G	67.31	68.20	-0.89	58.83	3	Horizontal	92	1.80	-	33.80	5.60	30.92

802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TnomVnom

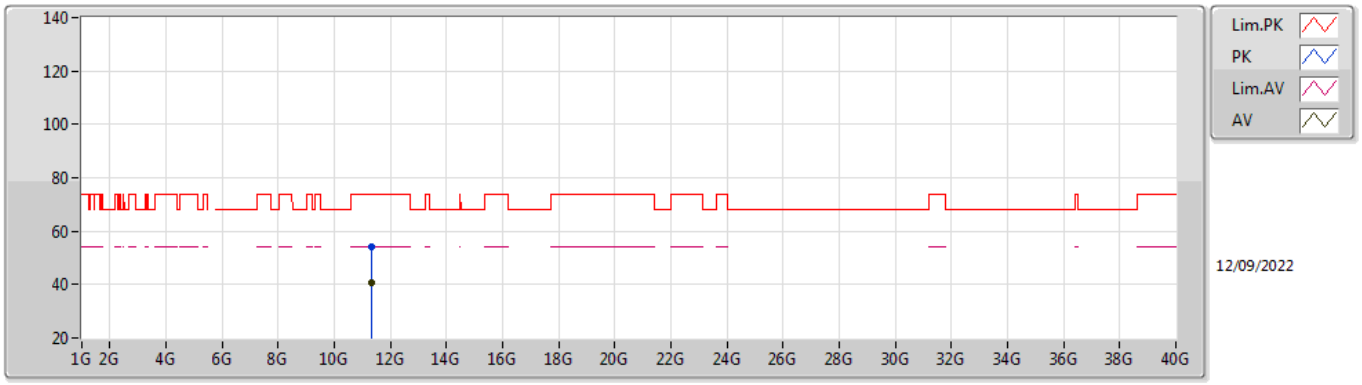


EUT X_2TX
Setting 12
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.3649G	53.74	74.00	-20.26	39.16	3	Vertical	184	1.80	-	38.80	7.85	32.07
AV	11.3549G	40.02	54.00	-13.98	25.44	3	Vertical	184	1.80	-	38.80	7.84	32.06

802.11ax HEW40_Nss1,(MCS0)_2TX

5670MHz_TnomVnom

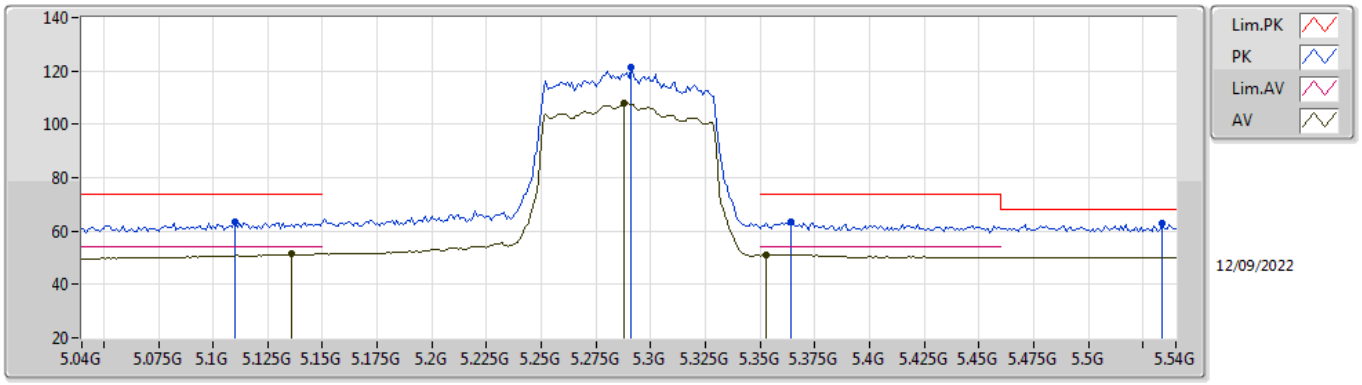


EUT X_2TX
Setting 12
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.3259G	54.25	74.00	-19.75	39.67	3	Horizontal	95	2.15	-	38.80	7.83	32.05
AV	11.343G	40.80	54.00	-13.20	26.22	3	Horizontal	95	2.15	-	38.80	7.84	32.06

802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TnomVnom

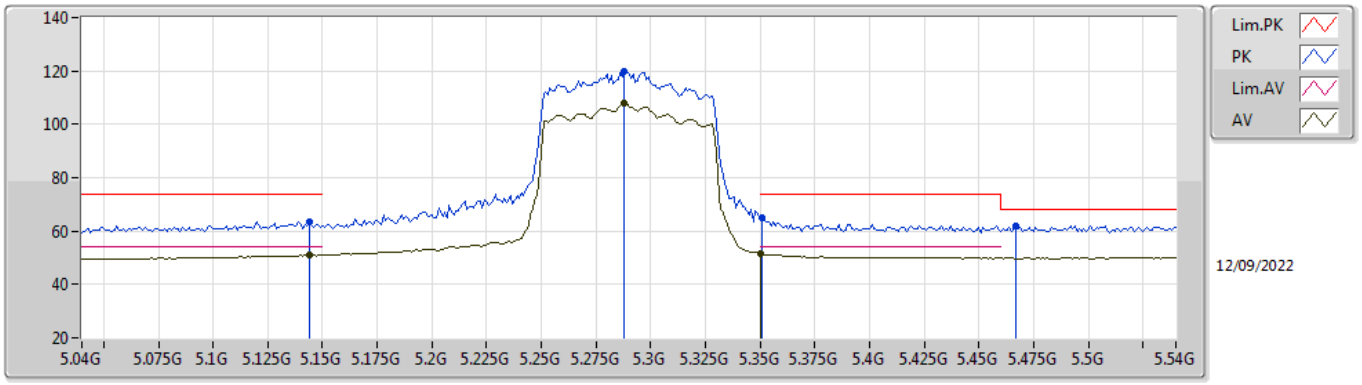


EUT X_2TX
Setting 12.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.11G	63.19	74.00	-10.81	55.19	3	Vertical	90	1.71	-	33.52	5.21	30.73
AV	5.136G	51.64	54.00	-2.36	43.56	3	Vertical	90	1.71	-	33.57	5.24	30.73
PK	5.291G	121.35	Inf	-Inf	112.94	3	Vertical	90	1.71	-	33.78	5.35	30.72
AV	5.288G	108.12	Inf	-Inf	99.72	3	Vertical	90	1.71	-	33.78	5.34	30.72
PK	5.364G	63.28	74.00	-10.72	54.69	3	Vertical	90	1.71	-	33.93	5.38	30.72
AV	5.353G	51.12	54.00	-2.88	42.55	3	Vertical	90	1.71	-	33.91	5.38	30.72
PK	5.534G	62.93	68.20	-5.27	54.15	3	Vertical	90	1.71	-	34.00	5.53	30.75

802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TnomVnom

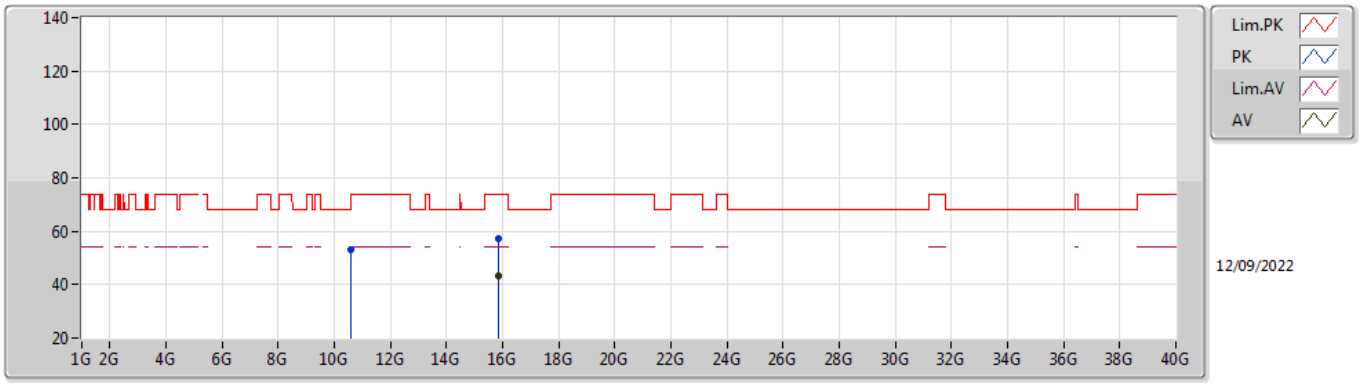


EUT X_2TX
Setting 12.5
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.144G	63.39	74.00	-10.61	55.29	3	Horizontal	90	1.74	-	33.59	5.24	30.73
AV	5.144G	51.04	54.00	-2.96	42.94	3	Horizontal	90	1.74	-	33.59	5.24	30.73
PK	5.288G	119.71	Inf	-Inf	111.31	3	Horizontal	90	1.74	-	33.78	5.34	30.72
AV	5.288G	107.89	Inf	-Inf	99.49	3	Horizontal	90	1.74	-	33.78	5.34	30.72
PK	5.351G	65.21	74.00	-8.79	56.65	3	Horizontal	90	1.74	-	33.90	5.38	30.72
AV	5.35G	51.60	54.00	-2.40	43.04	3	Horizontal	90	1.74	-	33.90	5.38	30.72
PK	5.467G	62.12	68.20	-6.08	53.37	3	Horizontal	90	1.74	-	34.00	5.47	30.72

802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TnomVnom

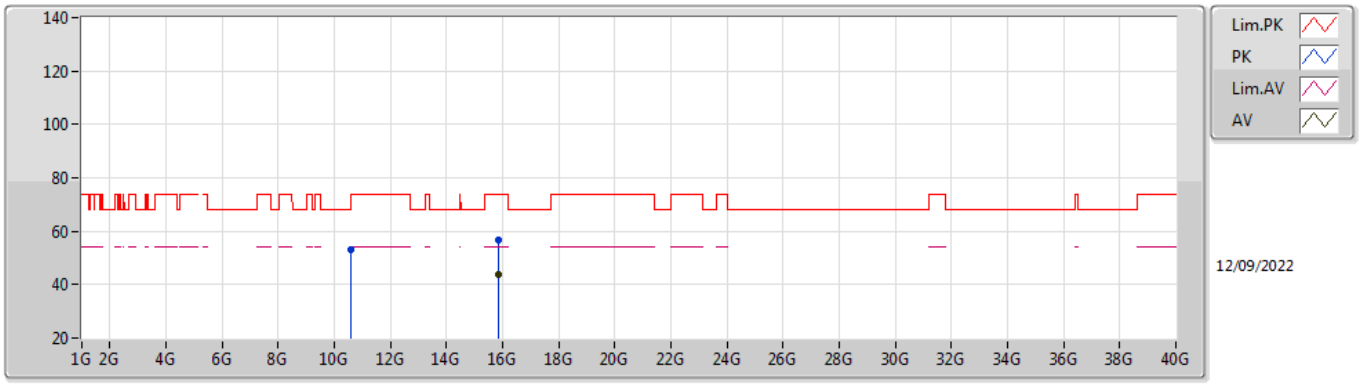


EUT X_2TX
Setting 12.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.58928G	53.08	68.20	-15.12	38.89	3	Vertical	69	1.56	-	38.51	7.54	31.86
PK	15.86252G	57.36	74.00	-16.64	41.57	3	Vertical	206	2.72	-	37.37	9.94	31.52
AV	15.86G	43.48	54.00	-10.52	27.68	3	Vertical	206	2.72	-	37.38	9.94	31.52

802.11ax HEW80_Nss1,(MCS0)_2TX

5290MHz_TnomVnom

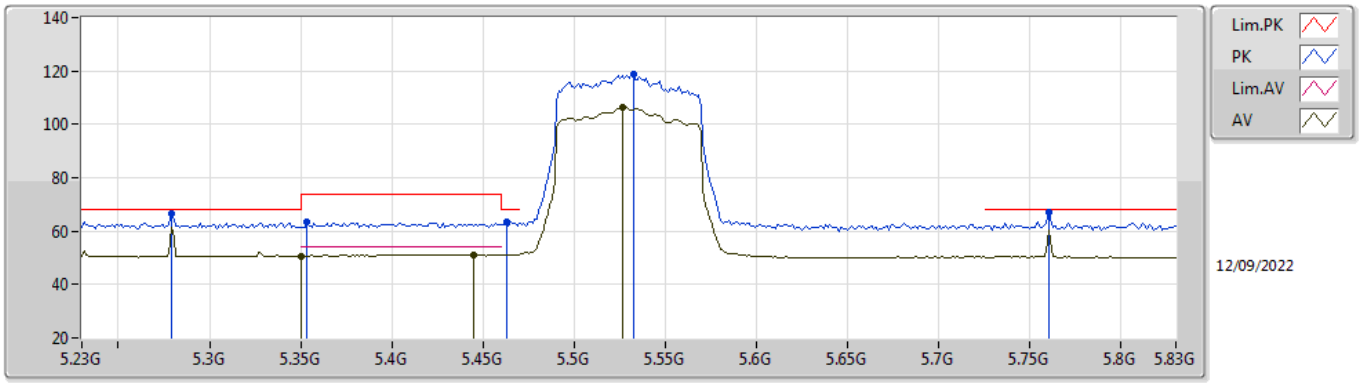


EUT X_2TX
Setting 12.5
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.58708G	52.91	68.20	-15.29	38.73	3	Horizontal	271	2.06	-	38.51	7.53	31.86
PK	15.87412G	56.56	74.00	-17.44	40.79	3	Horizontal	84	2.10	-	37.35	9.94	31.52
AV	15.86016G	43.59	54.00	-10.41	27.79	3	Horizontal	84	2.10	-	37.38	9.94	31.52

802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TnomVnom

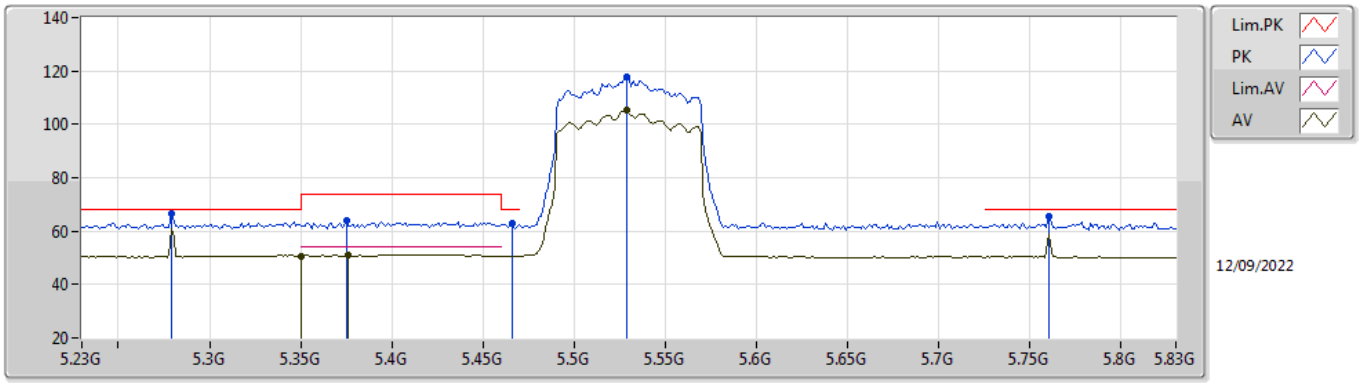


EUT X_2TX
Setting 9
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.2792G	66.78	68.20	-1.42	58.40	3	Vertical	91	1.80	-	33.76	5.34	30.72
PK	5.3536G	63.23	74.00	-10.77	54.66	3	Vertical	91	1.80	-	33.91	5.38	30.72
AV	5.35G	50.70	54.00	-3.30	42.15	3	Vertical	91	1.80	-	33.90	5.37	30.72
PK	5.4628G	63.49	68.20	-4.71	54.75	3	Vertical	91	1.80	-	34.00	5.46	30.72
AV	5.4448G	51.17	54.00	-2.83	42.45	3	Vertical	91	1.80	-	34.00	5.44	30.72
PK	5.5324G	118.63	Inf	-Inf	109.84	3	Vertical	91	1.80	-	34.00	5.53	30.74
AV	5.5264G	106.46	Inf	-Inf	97.67	3	Vertical	91	1.80	-	34.00	5.53	30.74
PK	5.7604G	66.82	68.20	-1.38	58.34	3	Vertical	91	1.80	-	33.80	5.60	30.92

802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TnomVnom

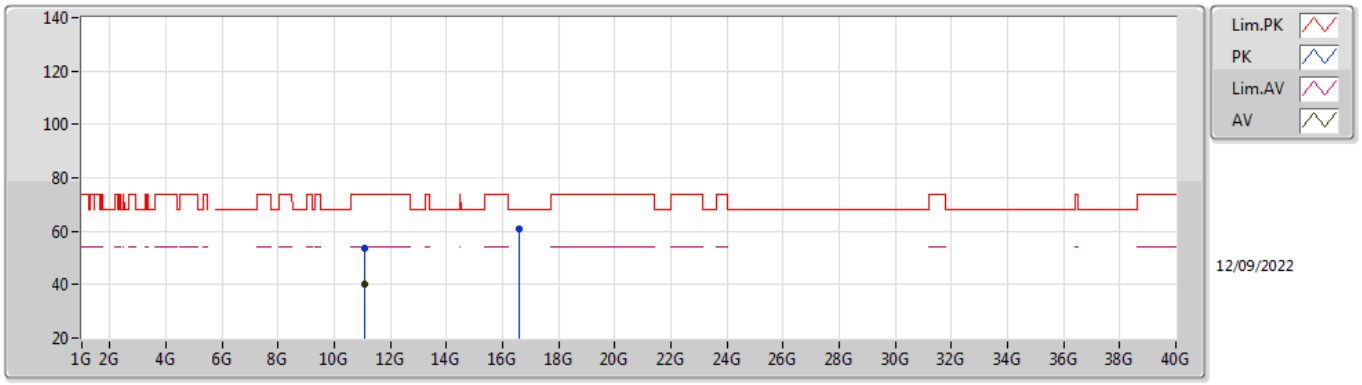


EUT X_2TX
Setting 9
02-F-G-4-13

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.2792G	66.39	68.20	-1.81	58.01	3	Horizontal	91	1.80	-	33.76	5.34	30.72
PK	5.3752G	63.77	74.00	-10.23	55.15	3	Horizontal	91	1.80	-	33.95	5.39	30.72
AV	5.35G	50.76	54.00	-3.24	42.21	3	Horizontal	91	1.80	-	33.90	5.37	30.72
AV	5.3764G	51.05	54.00	-2.95	42.43	3	Horizontal	91	1.80	-	33.95	5.39	30.72
PK	5.4664G	63.16	68.20	-5.04	54.41	3	Horizontal	91	1.80	-	34.00	5.47	30.72
PK	5.5288G	117.99	Inf	-Inf	109.20	3	Horizontal	91	1.80	-	34.00	5.53	30.74
AV	5.5288G	105.24	Inf	-Inf	96.45	3	Horizontal	91	1.80	-	34.00	5.53	30.74
PK	5.7604G	65.51	68.20	-2.69	57.03	3	Horizontal	91	1.80	-	33.80	5.60	30.92

802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TnomVnom

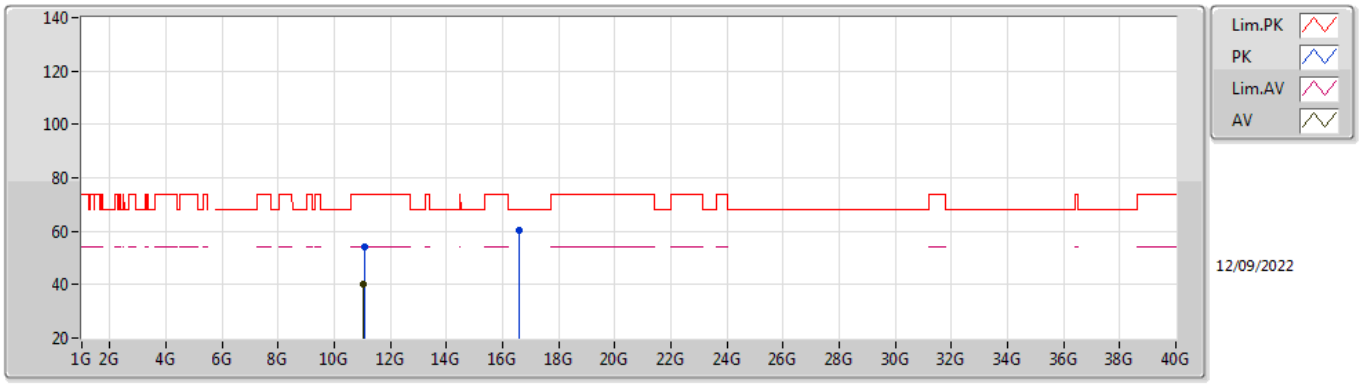


EUT X_2TX
Setting 9
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.06144G	53.51	74.00	-20.49	39.07	3	Vertical	168	1.33	-	38.66	7.72	31.94
AV	11.05996G	39.95	54.00	-14.05	25.51	3	Vertical	168	1.33	-	38.66	7.72	31.94
PK	16.58504G	60.87	68.20	-7.33	42.08	3	Vertical	302	2.48	-	39.36	10.29	30.86

802.11ax HEW80_Nss1,(MCS0)_2TX

5530MHz_TnomVnom



EUT X_2TX
Setting 9
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.06012G	53.94	74.00	-20.06	39.50	3	Horizontal	282	2.89	-	38.66	7.72	31.94
AV	11.05368G	39.98	54.00	-14.02	25.55	3	Horizontal	282	2.89	-	38.65	7.72	31.94
PK	16.59432G	60.56	68.20	-7.64	41.72	3	Horizontal	240	1.88	-	39.38	10.30	30.84