Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	2AYRA-08450
Equipment	:	Linksys Velop Micro-Router 6
Brand Name	:	Linksys
Model Name	:	LN1100 v2, LN1110 v2, LN1115 v2
Applicant	:	Linksys USA, Inc. 121 Theory, Irvine, CA. 92617, USA
Standard	:	47 CFR FCC Part 15.407

The product was received on Jan. 02, 2024, and testing was started from Jan. 12, 2024 and completed on Feb. 21, 2024. 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 report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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

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History of this test report

Report No.	Version	Description	Issued Date
FR3D2303AC	01	Initial issue of report	Mar. 29, 2024
FR3D2303AC	02	Adding Subordinate for Device Type in section 1.1.4.	Apr. 02, 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	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum EIRP Output Power	PASS	-
3.4	15.407(a)	EIRP Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen
Report Producer: Cathy Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5725-5895	a, n (HT20), ac (VHT20), ax (HEW20)	5845-5885	169-177 [3]
5725-5895	n (HT40), ac (VHT40), ax (HEW40)	5835-5875	167-175 [2]
5725-5895	ac (VHT80), ax (HEW80)	5855	171 [1]
5725-5895	ac (VHT160), ax (HEW160)	5815	163 [1]

Band	Mode	BWch (MHz)	Nant
5.725-5.895GHz	802.11a	20	2TX
5.725-5.895GHz	802.11n HT20	20	2TX
5.725-5.895GHz	802.11n HT20-BF	20	2TX
5.725-5.895GHz	802.11ac VHT20	20	2TX
5.725-5.895GHz	802.11ac VHT20-BF	20	2TX
5.725-5.895GHz	802.11ax HEW20	20	2TX
5.725-5.895GHz	802.11ax HEW20-BF	20	2TX
5.725-5.895GHz	802.11n HT40	40	2TX
5.725-5.895GHz	802.11n HT40-BF	40	2TX
5.725-5.895GHz	802.11ac VHT40	40	2TX
5.725-5.895GHz	802.11ac VHT40-BF	40	2TX
5.725-5.895GHz	802.11ax HEW40	40	2TX
5.725-5.895GHz	802.11ax HEW40-BF	40	2TX
5.725-5.895GHz	802.11ac VHT80	80	2TX
5.725-5.895GHz	802.11ac VHT80-BF	80	2TX
5.725-5.895GHz	802.11ax HEW80	80	2TX
5.725-5.895GHz	802.11ax HEW80-BF	80	2TX
5.725-5.895GHz	802.11ac VHT160	160	2TX
5.725-5.895GHz	802.11ac VHT160-BF	160	2TX
5.725-5.895GHz	802.11ax HEW160	160	2TX
5.725-5.895GHz	802.11ax HEW160-BF	160	2TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz	Bluetooth					
1	1	-	-	GALTRONICS	02102073-08042E1	Dipole Antenna	U.FL	Note1
2	2	-	-	GALTRONICS	02102073-08042E2	Dipole Antenna	U.FL	
3	-	1	-	GALTRONICS	02102142-08042E2	Dipole Antenna	U.FL	
4	-	2	-	GALTRONICS	02102142-08042E1	Dipole Antenna	U.FL	
5	-	-	1	GALTRONICS	02036073-07196-1	Metal onboard	U.FL	

Note1:

Ant.	Antenna Gain (dBi)						
	WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	WLAN 5GHz UNII 4	Bluetooth
1	2.04	-	-	-	-	-	-
2	1.53	-	-	-	-	-	-
3	-	2.10	2.63	2.68	2.68	2.53	-
4	-	3.19	3.27	2.98	3.50	3.50	-
5	-	-	-	-	-	-	2.92

Note 2: The above information was declared by manufacturer.

Note 3: 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	$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{sp}}\left[\sum_{k=1}^{N_{ANT}} g_{j,k}\right]^2}{N_{ANT}}\right]$
BF	$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{sp}}\left[\sum_{k=1}^{N_{sym}} g_{j,k}\right]^2}{N_{ANT}}\right]$	$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{sp}}\left[\sum_{k=1}^{N_{sym}} g_{j,k}\right]^2}{N_{ANT}}\right]$

Ex.

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

$NSS1(g1,1) = 10^{G1/20}$; $NSS1(g1,2) = 10^{G2/20}$; $NSS1(g1,2) = 10^{G3/20}$; $NSS1(g1,2) = 10^{G4/20}$

$gj,k = (Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2$

$DG = 10 \log[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2 / N_{ANT}] => 10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$

Where ;

2.4G G1= 2.04 dBi ;G2= 1.53 dBi ;

5G UNII-1 G1 = 2.10 dBi; G2 = 3.19 dBi;

5G UNII-2A G1 = 2.63 dBi; G2 = 3.27 dBi;

5G UNII-2C G1 = 2.68 dBi; G2 = 2.98 dBi;

5G UNII-3 G1 = 2.68 dBi; G2 = 3.50 dBi;

5G UNII-4 G1 = 2.53 dBi; G2 = 3.50 dBi;

2.4G DG = 4.80 dBi

5G UNII-1 DG = 5.67 dBi

5G UNII-2A DG = 5.97 dBi

5G UNII-2C DG = 5.84 dB

5G UNII-3 DG = 6.11 dBi

5G UNII-4 DG = 6.04 dBi

<For 2.4GHz function>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For 5GHz function>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<For Bluetooth function> (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

Port 1 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11a_Nss 1,(6D)	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20-BF_Nss 1,(M0)	0.919	0.37	1.78m	1k
802.11ax HEW40-BF_Nss 1,(M0)	0.919	0.37	1.78m	1k
802.11ax HEW80-BF_Nss 1,(M0)	0.919	0.37	1.904m	1k
802.11ax HEW160-BF_Nss 1,(M0)	0.923	0.35	1.904m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Device Type	☒	Indoor Access Point	☒	Subordinate
	☐	Indoor Client		
Channel Puncturing Function	☐	Supported	☒	Unsupported
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	For Non-beamforming mode: QRCT V4.0.00192.0 For Beamforming mode: DOS[6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
LN1100 v2	For retail
LN1110 v2	For e-commerce
LN1115 v2	For Warehouse

Note 1: From the above models, model: LN1100 v2 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Supports Function

Function
AP Router
Mesh

Note1: For above table list, only AP Router mode was tested and recorded in this test.
Note2: The above information was declared by manufacturer.

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
- FCC KDB 414788 D01 v01r01
- FCC KDB 291074 D02 v01

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	TH03-CB	Owen Hsu	21.6~22.6 / 68~69	Jan. 17, 2024~ Jan. 25, 2024
Radiated (Below 1GHz)	03CH05-CB	Gordon Hung	21.9-22.4 / 55-58	Feb. 21, 2024
Radiated (Above 1GHz)	03CH01-CB	Gordon Hung	21.6-22.7 / 56-59	Jan. 12, 2024~ Jan. 24, 2024
	03CH03-CB	Gordon Hung	21.4-22.5 / 55-58	Jan. 12, 2024~ Jan. 24, 2024
	03CH05-CB	Gordon Hung	21.9-22.4 / 55-58	Jan. 12, 2024~ Jan. 24, 2024
AC Conduction	CO01-CB	Summer Li	19-20 / 54-55	Jan. 25, 2024

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11a_Nss1,(6Mbps)_2TX
5845MHz
5865MHz
5885MHz
802.11ax HEW20-BF_Nss1,(MCS0)_2TX
5845MHz
5865MHz
5885MHz
802.11ax HEW40-BF_Nss1,(MCS0)_2TX
5835MHz
5875MHz
802.11ax HEW80-BF_Nss1,(MCS0)_2TX
5855MHz
802.11ax HEW160-BF_Nss1,(MCS0)_2TX
5815MHz

Note:
- Evaluated HEW20/HEW 40/HEW80/HEW160 mode only. Due to similar modulation, the power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/ HEW80/HEW160.
- The EUT supports non-beamforming and beamforming mode, only beamforming mode has been selected to test.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT + Adapter 1
2	EUT + Adapter 2
3	EUT + Adapter 3 + US Plug
For operating mode 2 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
For WLAN mode: After evaluating, the worst case was found at Z axis from Unwanted Emissions above 1GHz. Thus, the measurement will follow this same test configuration. For Bluetooth mode: After evaluating, the worst case was found at Y axis from Unwanted Emissions above 1GHz. Thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz + Adapter 1
2	EUT in Z axis + WLAN 2.4GHz + Adapter 2
3	EUT in Z axis + WLAN 2.4GHz + Adapter 3 + US Plug
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 ~ 5 will follow this same test mode.	
4	EUT in Z axis + WLAN 5GHz + Adapter 3 + US Plug
5	EUT in Y axis + Bluetooth + Adapter 3 + US Plug
For operating mode 4 is the worst case and it was record in this test report.	

Operating Mode > 1GHz	CTX
After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA3D2303 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter 1	Ktec	KSA-18W-120150VU	INPUT: 100-240V ~ 50/60Hz, 0.5A OUTPUT: 12V, 1.5A
Adapter 2	MOSO	MS-V1500R120-018H0-US	INPUT: 100-240V~50/60Hz, 0.6A max. OUTPUT: 12V, 1.5A
Adapter 3	Ktec	KSA-18W-120150D5	INPUT: 100-240V ~ 50/60Hz, 0.5A OUTPUT: 12.0V, 1.5A, 18.0W
Others			
RJ-45 cable*1, non-shielded, 1m			
US Plug*1 (Equip with Adapter 3 use only)			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	WAN NB	DELL	E6430	N/A
E	iPhone 12	Apple	A2403	N/A

For Radiated (below 1GHz), Radiated (above 1GHz) / Non-beamforming mode and RF Conducted / Non-beamforming mode:

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

For Radiated (above 1GHz) / Beamforming mode:

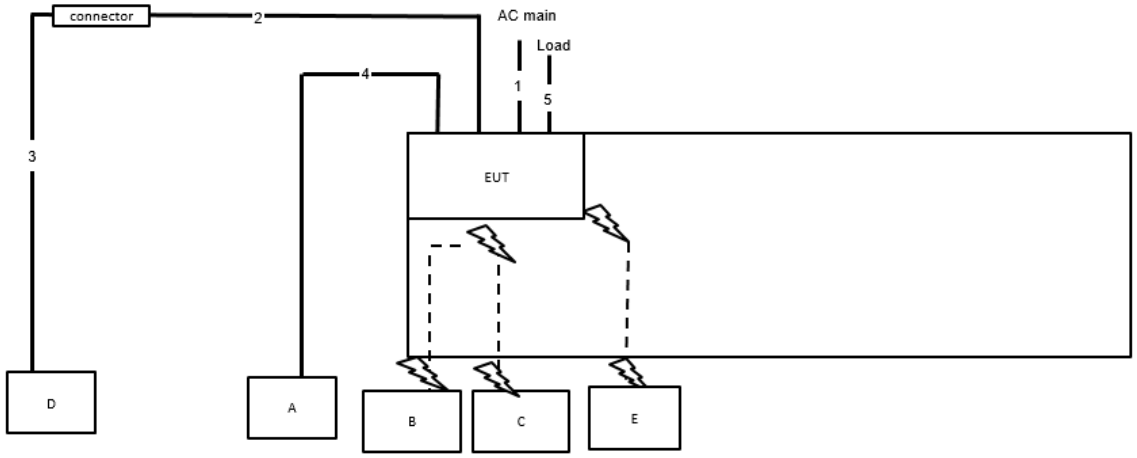
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Client	Linksys	LN1100 v2	N/A
C	Notebook	DELL	E4300	N/A

For RF Conducted / Beamforming mode:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Client	Linksys	LN1100 v2	N/A

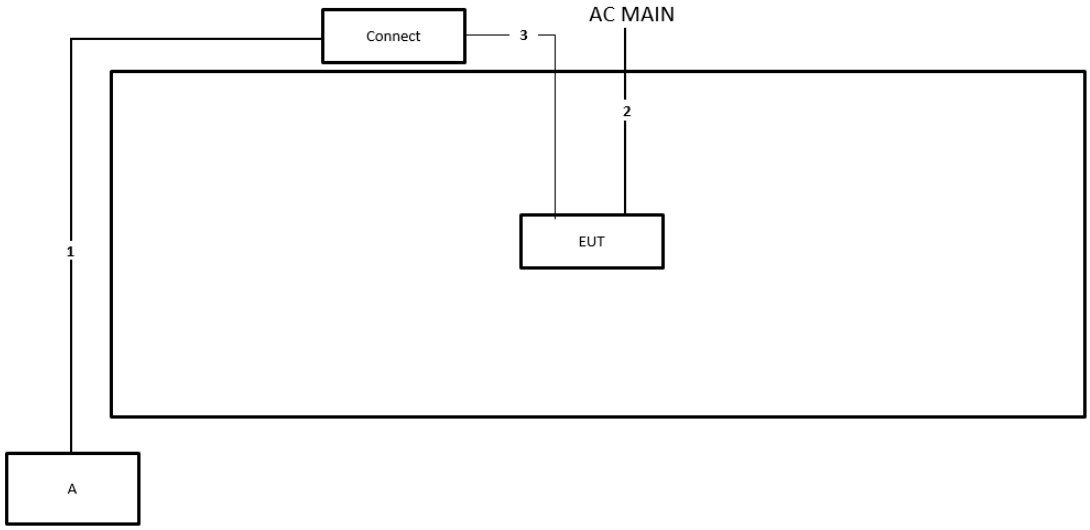
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



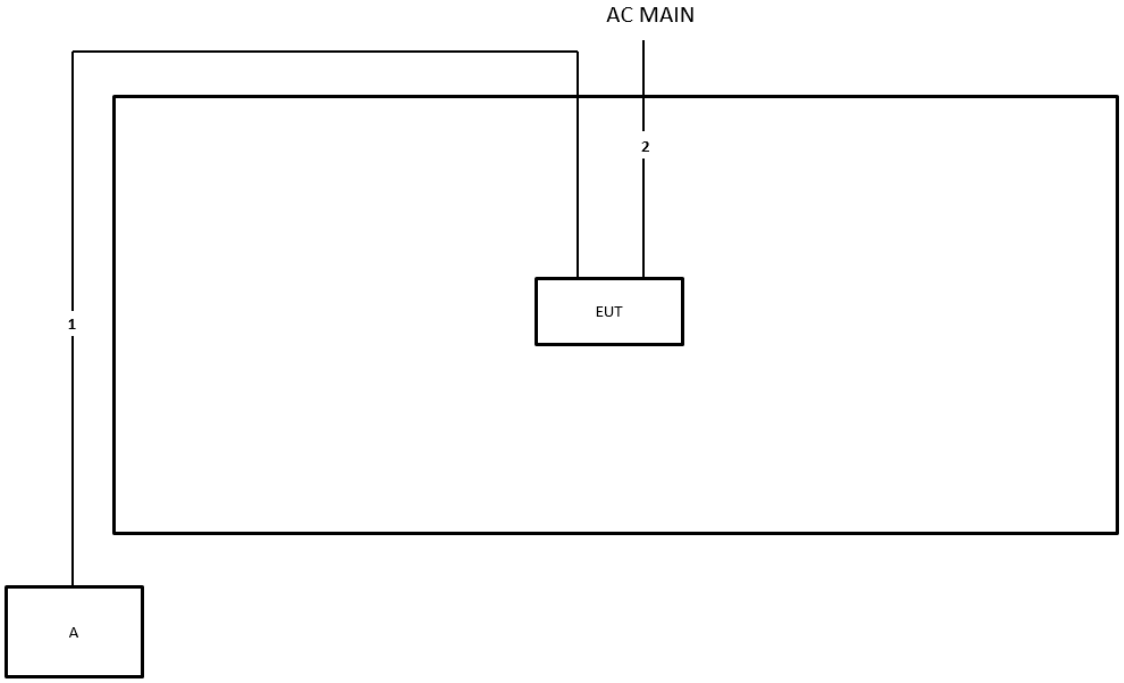
Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	RJ-45 cable	No	1m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable*3	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



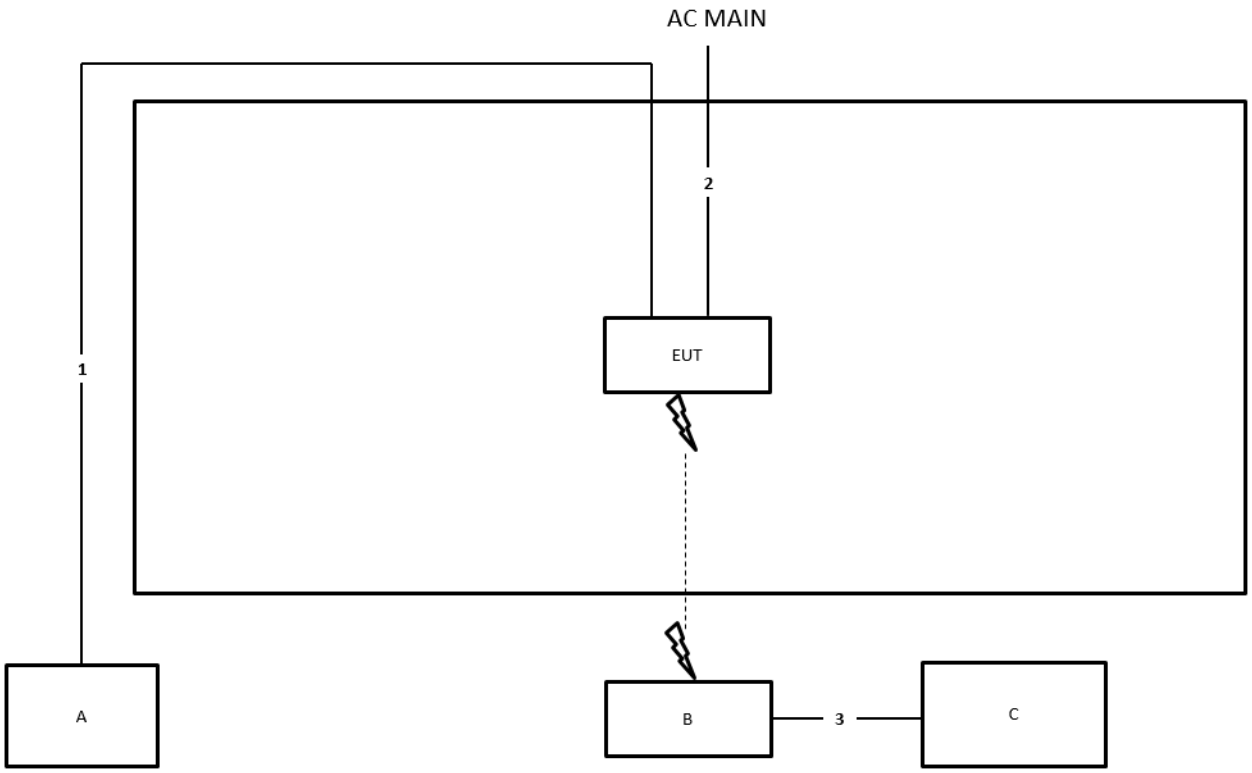
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.6m
3	RJ-45 cable	No	1.0m

Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.6m

Test Setup Diagram - Radiated Test > 1GHz / Beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.6m
3	RJ-45 cable	No	10m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

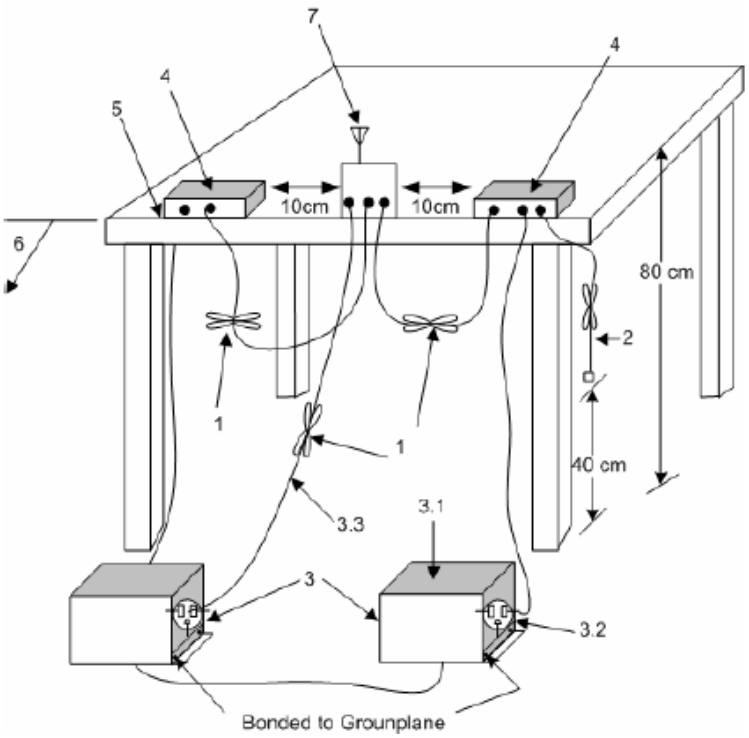
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit
UNII Devices
☒ For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices
☐ For the 5.85-5.895 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.

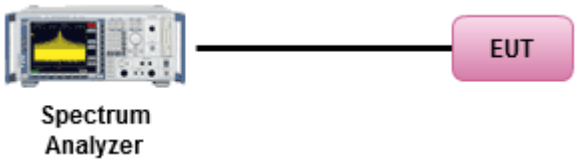
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as 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.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum EIRP Output Power

3.3.1 Limit

Maximum EIRP Output Power Limit	
UNII Devices	
☒ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Client device < 30 dBm
LE-LAN Devices	
☐ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 36 dBm
	▪ Indoor client device < 30 dBm
	▪ Fixed outdoor AP device < 36 dBm
	▪ Fixed outdoor client device < 30 dBm

3.3.2 Measuring Instruments

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

3.3.3 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.

3.3.4 Test Setup

Conducted Measurement (Power Meter)

3.3.5 Test Result of Maximum EIRP Output Power

Refer as Appendix C

3.4 EIRP Power Spectral Density

3.4.1 Limit

EIRP Power Spectral Density Limit	
UNII Devices	
☒ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 20dBm/MHz
	▪ Client device < 14dBm/MHz
LE-LAN Devices	
☐ For the 5.85-5.895 GHz band:	
	▪ Indoor AP & subordinate device < 20 dBm/MHz
	▪ Indoor client device < 14 dBm/MHz
	▪ Fixed outdoor AP device < 23 dBm/MHz
	▪ Fixed outdoor client device < 17 dBm/MHz

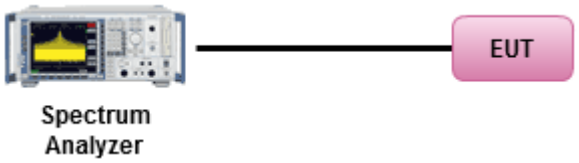
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:	
	☐ Refer as 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.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup

Conducted Measurement


3.4.5 Test Result of EIRP Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 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**
☒ UNII Devices 5.85 - 5.895 GHz	(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of - 7 dBm/MHz at or above 5.925 GHz. (ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of -5 dBm/MHz and shall decrease linearly to an e.i.r.p. of -27 dBm/MHz at or above 5.925 GHz. (iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/ MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
☐ LE-LAN Devices 5.85 - 5.895 GHz	(i) Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge. (ii) Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz. (iii) Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

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

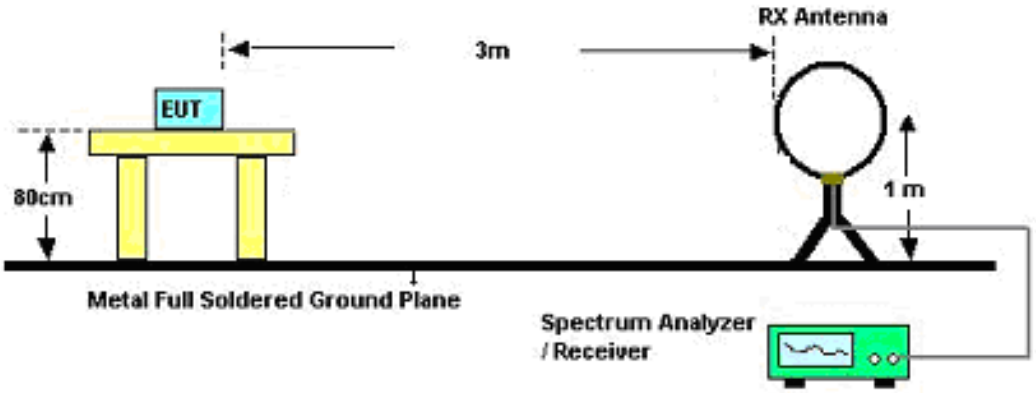
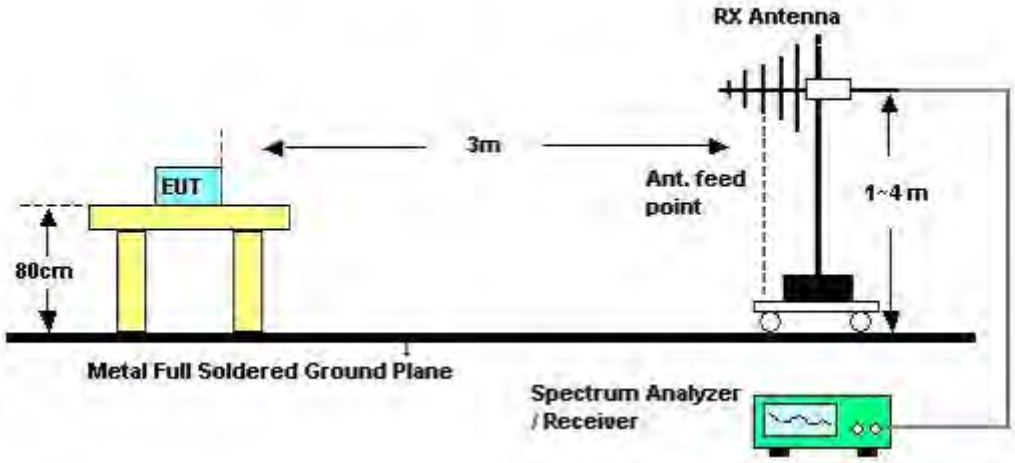
3.5.2 Measuring Instruments

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

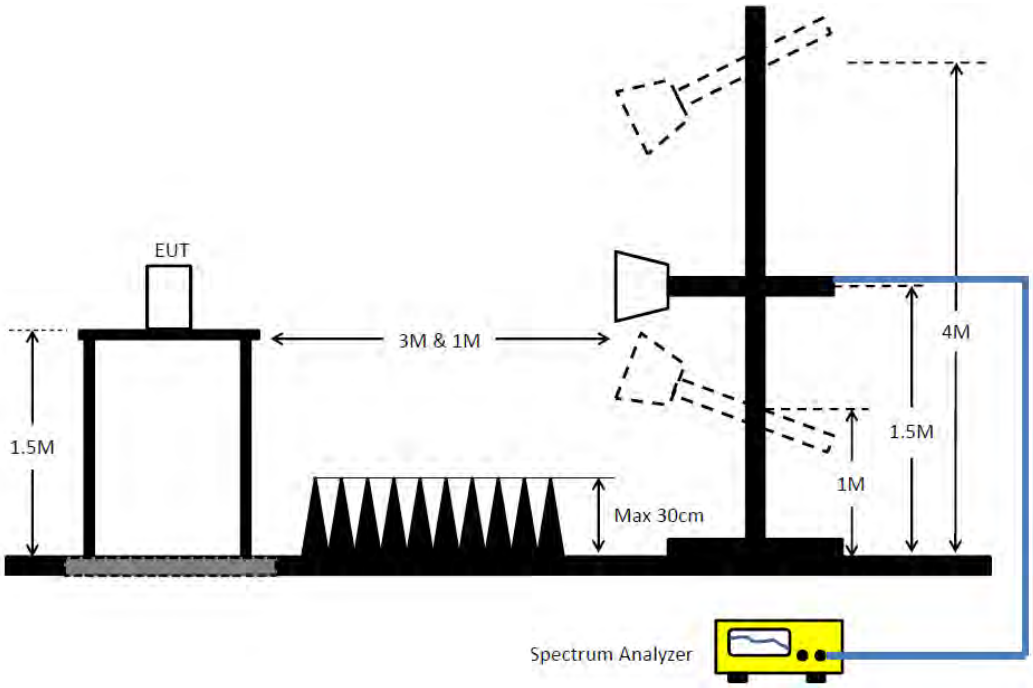
3.5.3 Test Procedures

Test Method			
▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).			
▪ The average emission levels shall be measured in [duty cycle ≥ 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.			

3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.5.5 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.

3.5.6 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.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 29, 2023	Sep. 28, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120 D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630 SE	980287	1GHz – 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Oct. 30, 2023	Oct. 29, 2024	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS·Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Nov. 07, 2023	Nov. 06, 2024	Radiation (03CH03-CB)

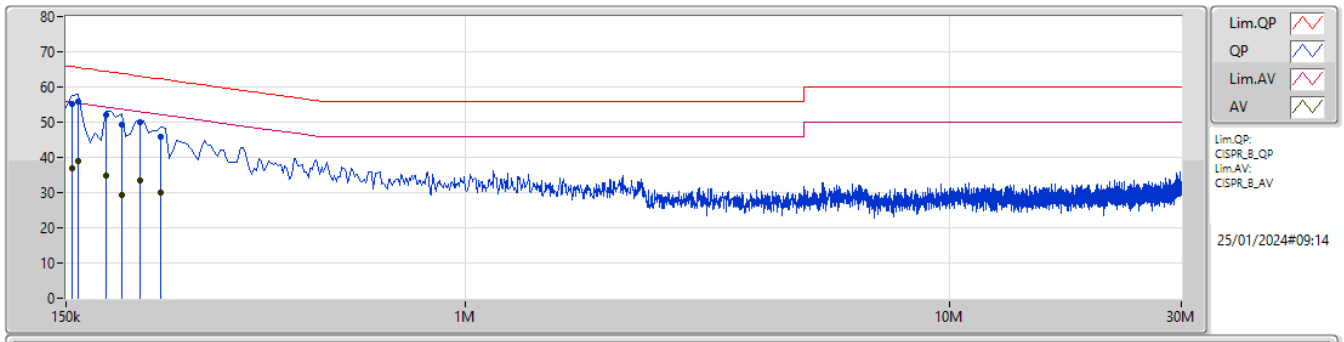
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Nov. 07, 2023	Nov. 06, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 22, 2023	Dec. 21, 2024	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.

Summary

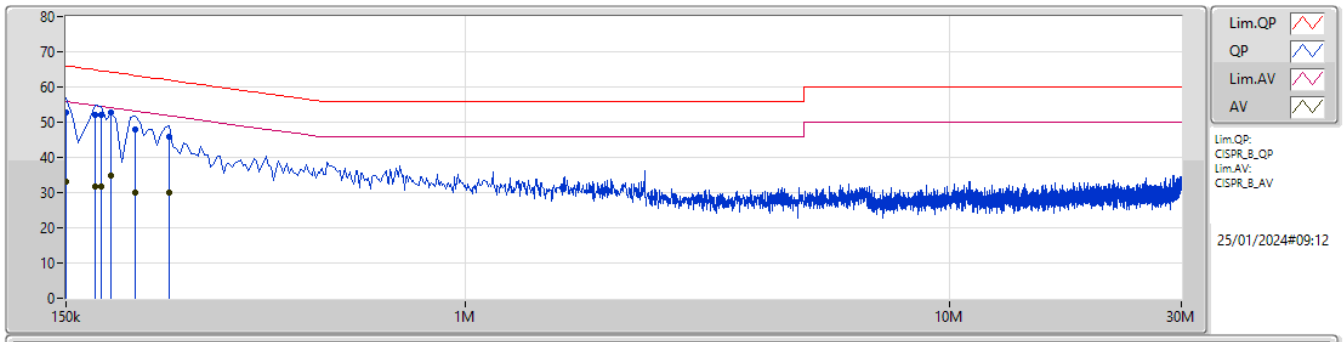
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	159k	56.03	65.52	-9.49	Line

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	55.10	65.75	-10.65	9.98	Line	-	45.12	0.09	0.02	9.87
AV	154.5k	36.79	55.75	-18.96	9.98	Line	-	26.81	0.09	0.02	9.87
QP	159k	56.03	65.52	-9.49	9.98	Line	"Worst"	46.05	0.09	0.02	9.87
AV	159k	39.04	55.52	-16.48	9.98	Line	-	29.06	0.09	0.02	9.87
QP	181.5k	52.07	64.41	-12.34	9.96	Line	-	42.11	0.08	0.02	9.86
AV	181.5k	34.69	54.41	-19.72	9.96	Line	-	24.73	0.08	0.02	9.86
QP	195k	49.14	63.82	-14.68	9.96	Line	-	39.18	0.08	0.02	9.86
AV	195k	29.48	53.82	-24.34	9.96	Line	-	19.52	0.08	0.02	9.86
QP	213k	49.86	63.09	-13.23	9.96	Line	-	39.90	0.08	0.02	9.86
AV	213k	33.44	53.09	-19.65	9.96	Line	-	23.48	0.08	0.02	9.86
QP	235.5k	45.98	62.25	-16.27	9.97	Line	-	36.01	0.08	0.02	9.87
AV	235.5k	30.00	52.25	-22.25	9.97	Line	-	20.03	0.08	0.02	9.87

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	52.66	66.00	-13.34	9.96	Neutral	-	42.70	0.07	0.02	9.87
AV	150k	33.18	56.00	-22.82	9.96	Neutral	-	23.22	0.07	0.02	9.87
QP	172.5k	52.13	64.83	-12.70	9.96	Neutral	-	42.17	0.07	0.02	9.87
AV	172.5k	31.71	54.83	-23.12	9.96	Neutral	-	21.75	0.07	0.02	9.87
QP	177k	52.13	64.62	-12.49	9.96	Neutral	-	42.17	0.07	0.02	9.87
AV	177k	31.71	54.62	-22.91	9.96	Neutral	-	21.75	0.07	0.02	9.87
QP	186k	52.66	64.20	-11.54	9.95	Neutral	"Worst"	42.71	0.07	0.02	9.86
AV	186k	34.72	54.20	-19.48	9.95	Neutral	-	24.77	0.07	0.02	9.86
QP	208.5k	47.96	63.27	-15.31	9.95	Neutral	-	38.01	0.07	0.02	9.86
AV	208.5k	30.17	53.27	-23.10	9.95	Neutral	-	20.22	0.07	0.02	9.86
QP	244.5k	45.94	61.95	-16.01	9.96	Neutral	-	35.98	0.07	0.02	9.87
AV	244.5k	30.06	51.95	-21.89	9.96	Neutral	-	20.10	0.07	0.02	9.87

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.895GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	16.335M	16.712M	16M7D1D	14.465M	16.272M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.92M	19.147M	19M1D1D	17.765M	18.859M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.84M	38.265M	38M3D1D	36.08M	37.781M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	54.78M	77.906M	77M9D1D	51.7M	77.288M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	137.72M	154.773M	155MD1D	121.88M	154.339M

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

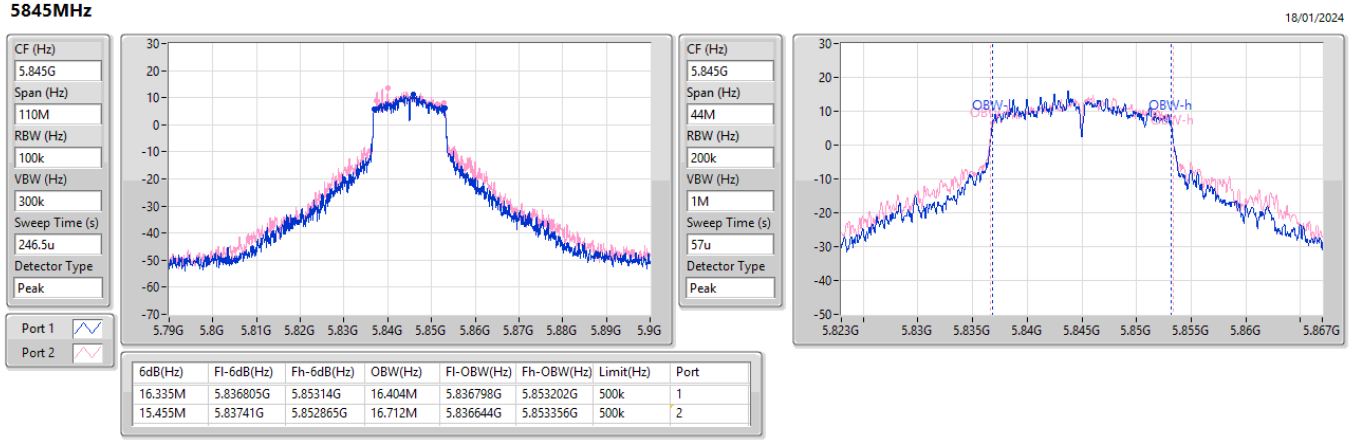
Result

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	-	-	-	-	-	-
5845MHz	Pass	500k	16.335M	16.404M	15.455M	16.712M
5865MHz	Pass	500k	14.465M	16.272M	16.06M	16.316M
5885MHz	Pass	500k	16.335M	16.272M	15.895M	16.294M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5845MHz	Pass	500k	17.765M	18.951M	18.92M	19.147M
5865MHz	Pass	500k	18.81M	18.859M	18.535M	18.889M
5885MHz	Pass	500k	18.92M	18.889M	18.92M	18.884M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5835MHz	Pass	500k	36.08M	37.997M	36.85M	38.265M
5875MHz	Pass	500k	37.84M	37.781M	37.07M	37.981M
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5855MHz	Pass	500k	51.7M	77.288M	54.78M	77.906M
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
5815MHz	Pass	500k	121.88M	154.773M	137.72M	154.339M

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**

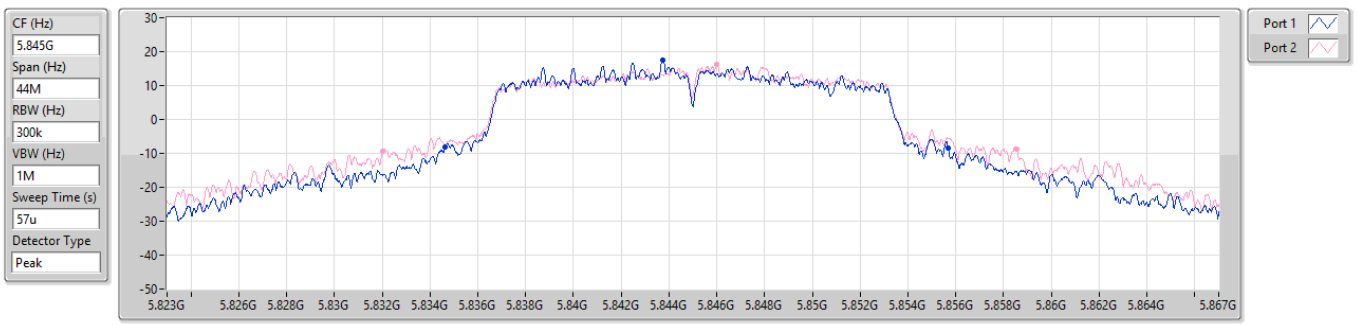
5845MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.335M	5.836805G	5.85314G	16.404M	5.836798G	5.853202G	500k	1
15.455M	5.83741G	5.852865G	16.712M	5.836644G	5.853356G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5845MHz

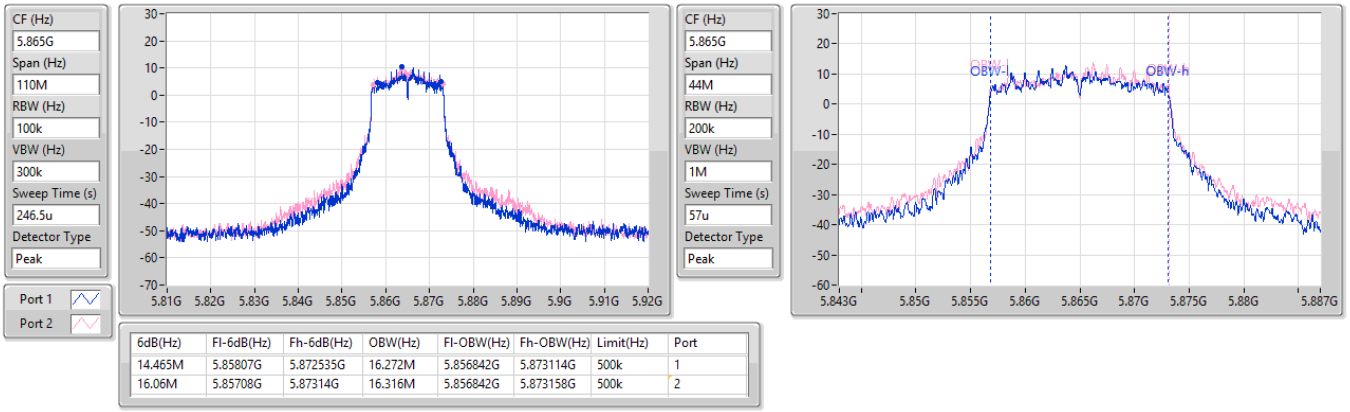


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.054M	5.834638G	5.855692G	Inf	1
26.532M	5.832042G	5.858574G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5865MHz

18/01/2024

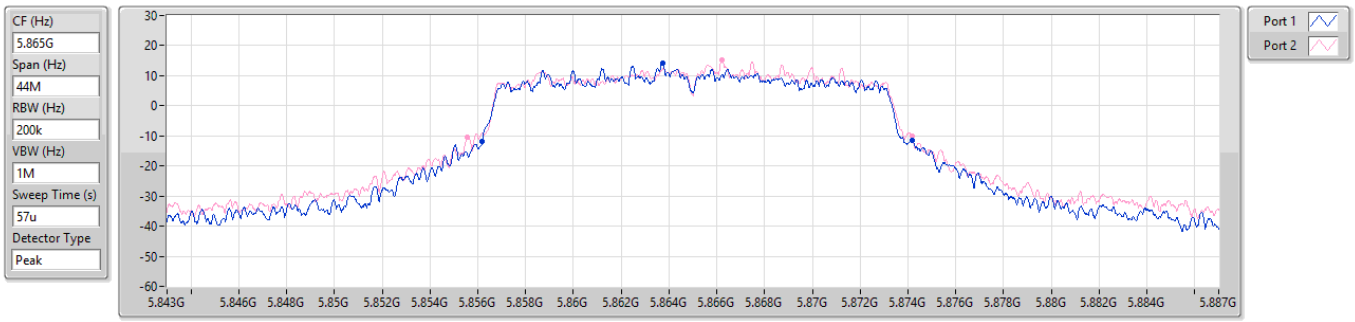


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.465M	5.85807G	5.872535G	16.272M	5.856842G	5.873114G	500k	1
16.06M	5.85708G	5.87314G	16.316M	5.856842G	5.873158G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5865MHz

18/01/2024

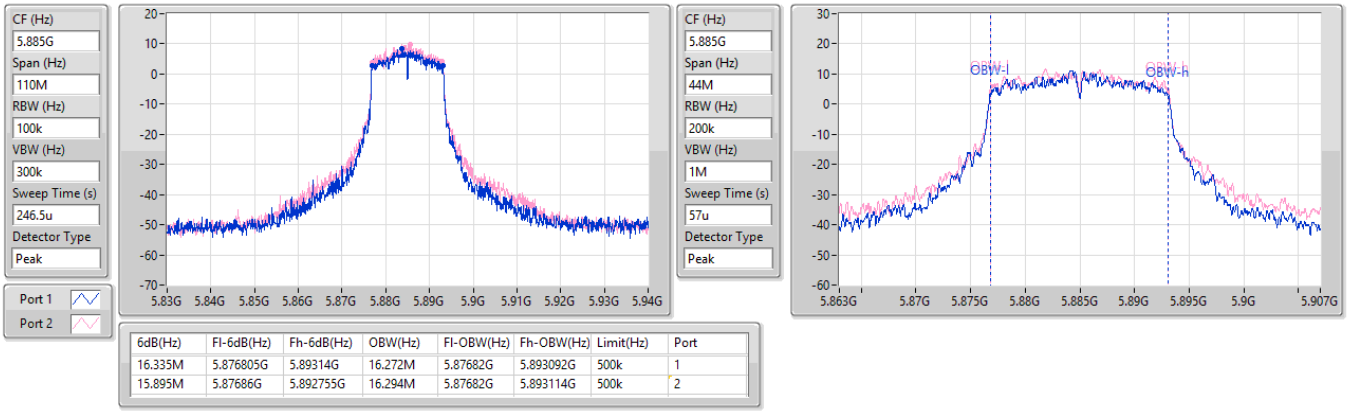


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
18.018M	5.856178G	5.874196G	Inf	1
18.634M	5.85554G	5.874174G	Inf	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5885MHz

18/01/2024

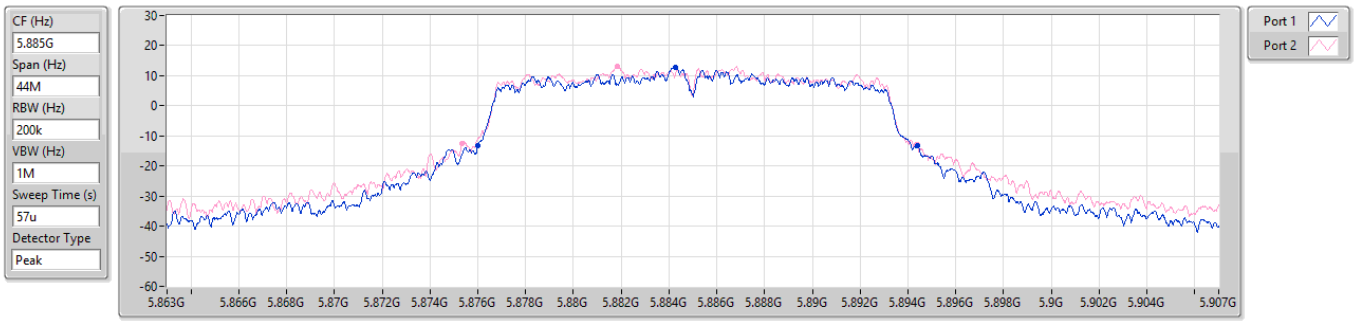


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.335M	5.876805G	5.89314G	16.272M	5.87682G	5.893092G	500k	1
15.895M	5.87686G	5.892755G	16.294M	5.87682G	5.893114G	500k	2

802.11a_Nss1,(6Mbps)_2TX **EBW**

5885MHz

18/01/2024

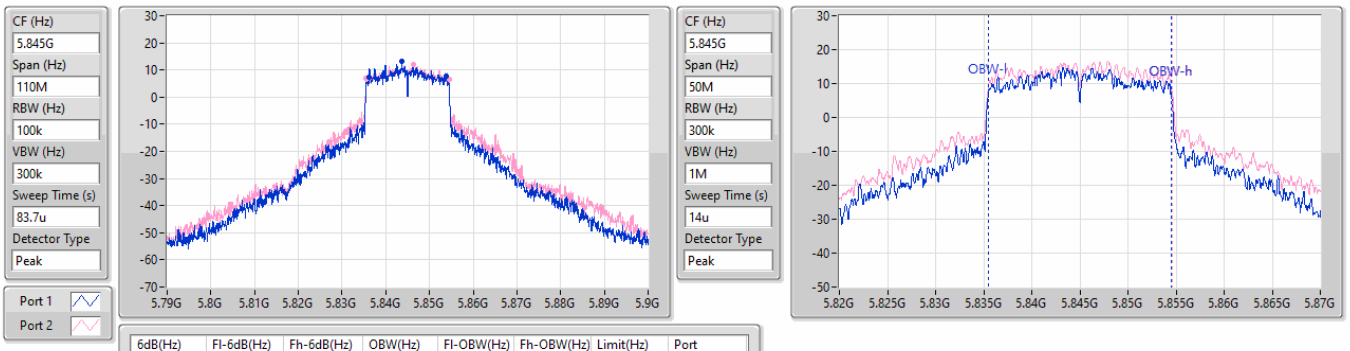


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
18.392M	5.876002G	5.894394G	Inf	1
19.052M	5.875342G	5.894394G	Inf	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

5845MHz

17/01/2024

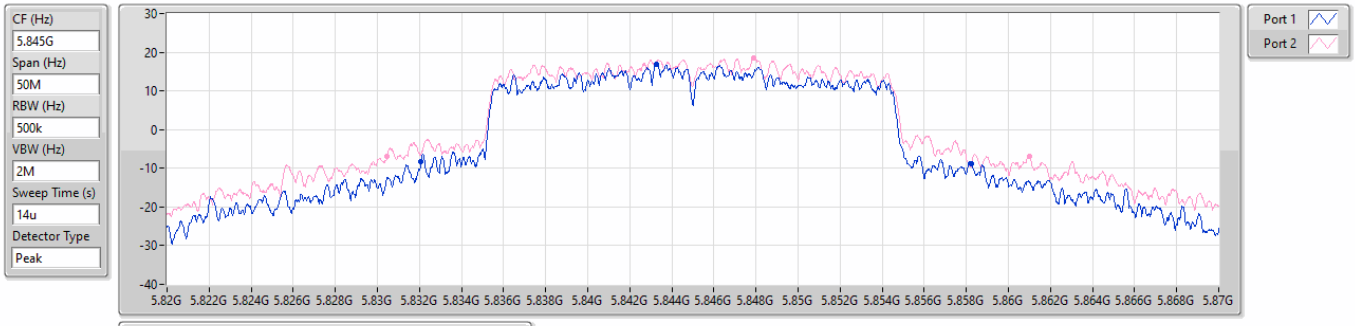


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.765M	5.836145G	5.85391G	18.951M	5.835519G	5.85447G	500k	1
18.92M	5.83554G	5.85446G	19.147M	5.83545G	5.854596G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

5845MHz

17/01/2024

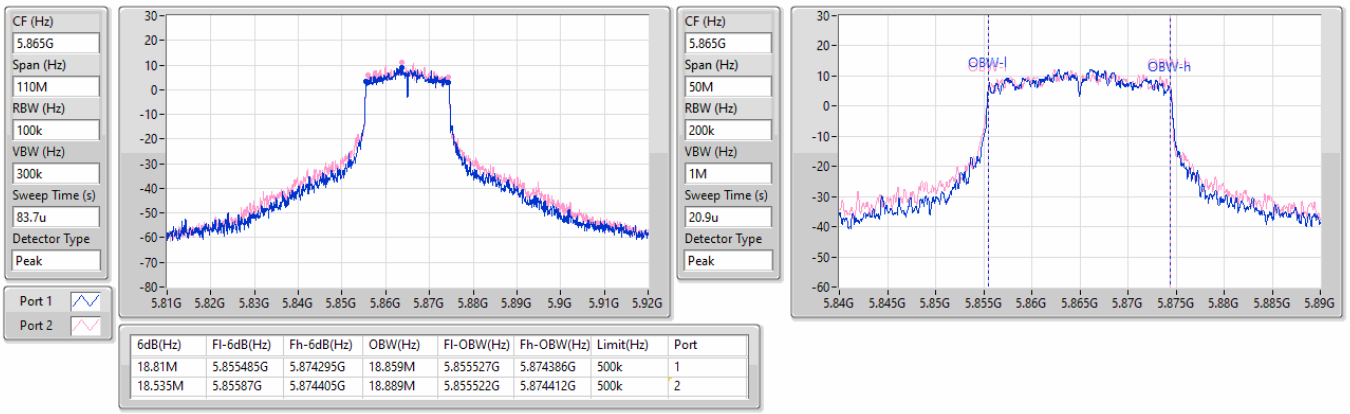


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
26.175M	5.832075G	5.85825G	Inf	1
30.55M	5.830475G	5.861025G	Inf	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

5865MHz

17/01/2024

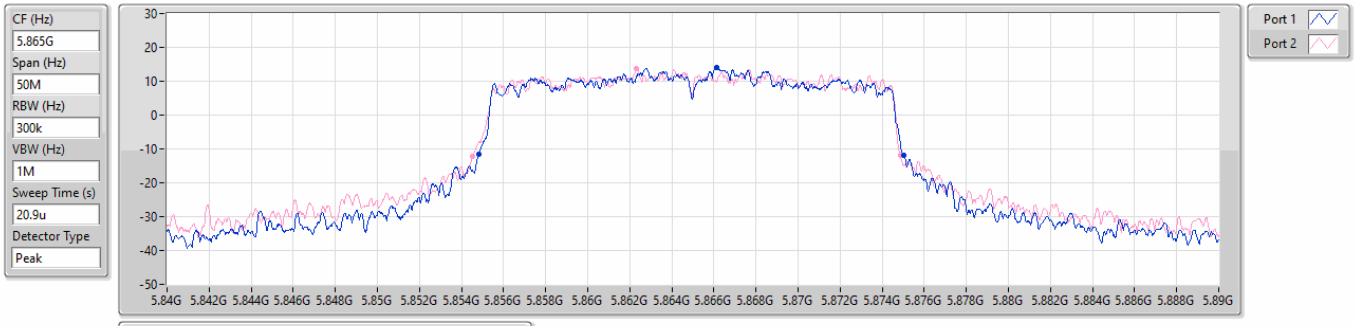


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.81M	5.855485G	5.874295G	18.859M	5.855527G	5.874386G	500k	1
18.535M	5.85587G	5.874405G	18.889M	5.855522G	5.874412G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

5865MHz

17/01/2024

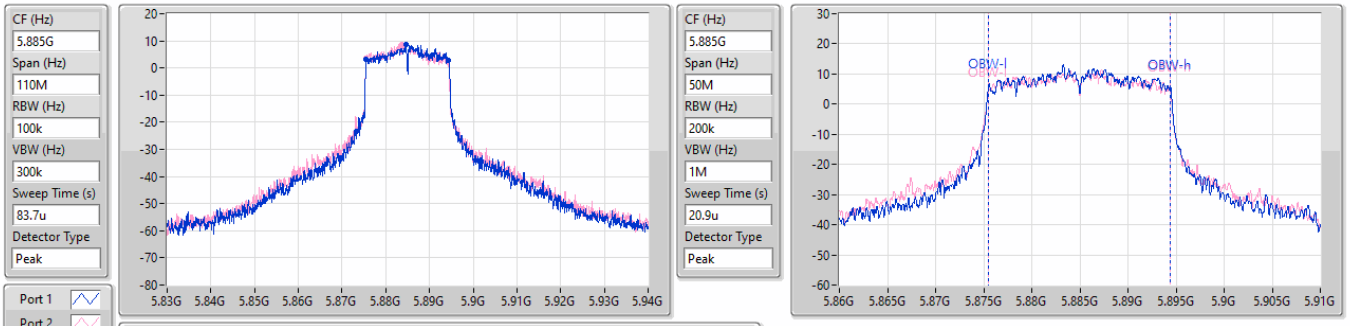


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.25M	5.8548G	5.87505G	Inf	1
20.325M	5.854525G	5.87485G	Inf	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

5885MHz

17/01/2024

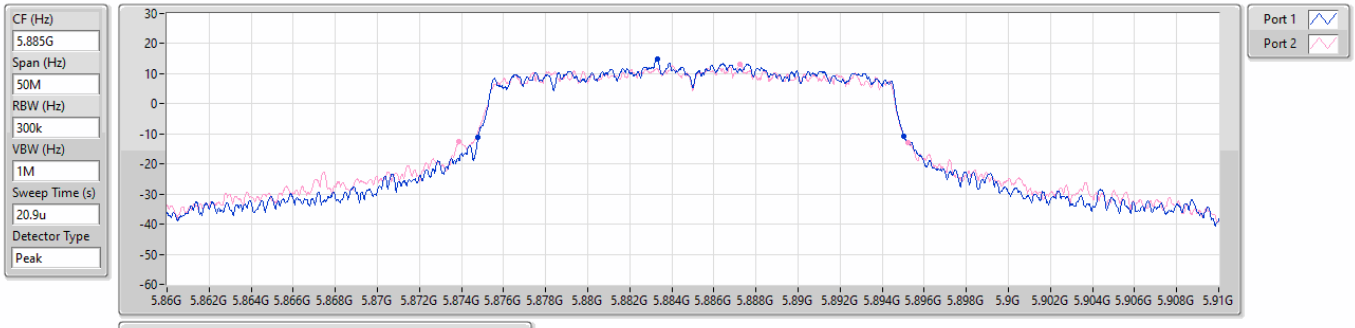


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.92M	5.875485G	5.894405G	18.889M	5.875522G	5.894411G	500k	1
18.92M	5.875485G	5.894405G	18.884M	5.875502G	5.894385G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

5885MHz

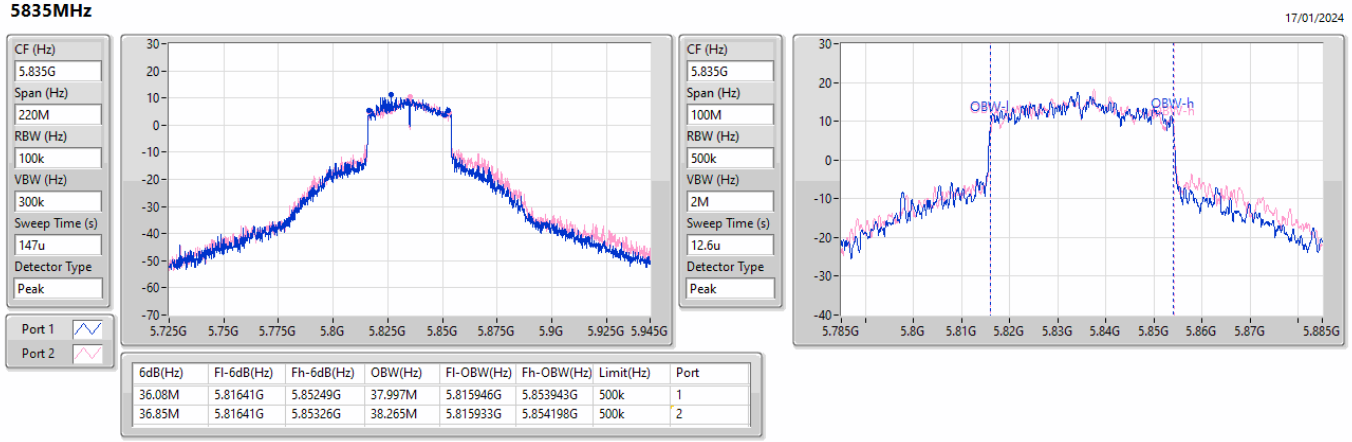
17/01/2024



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.275M	5.874775G	5.89505G	Inf	1
21.35M	5.873875G	5.895225G	Inf	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **EBW**

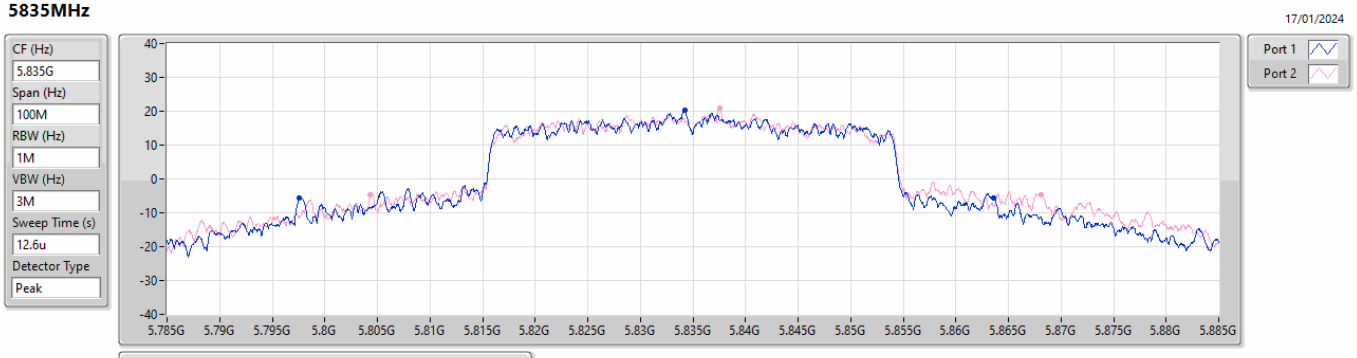
5835MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.08M	5.81641G	5.85249G	37.997M	5.815946G	5.853943G	500k	1
36.85M	5.81641G	5.85326G	38.265M	5.815933G	5.854198G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **EBW**

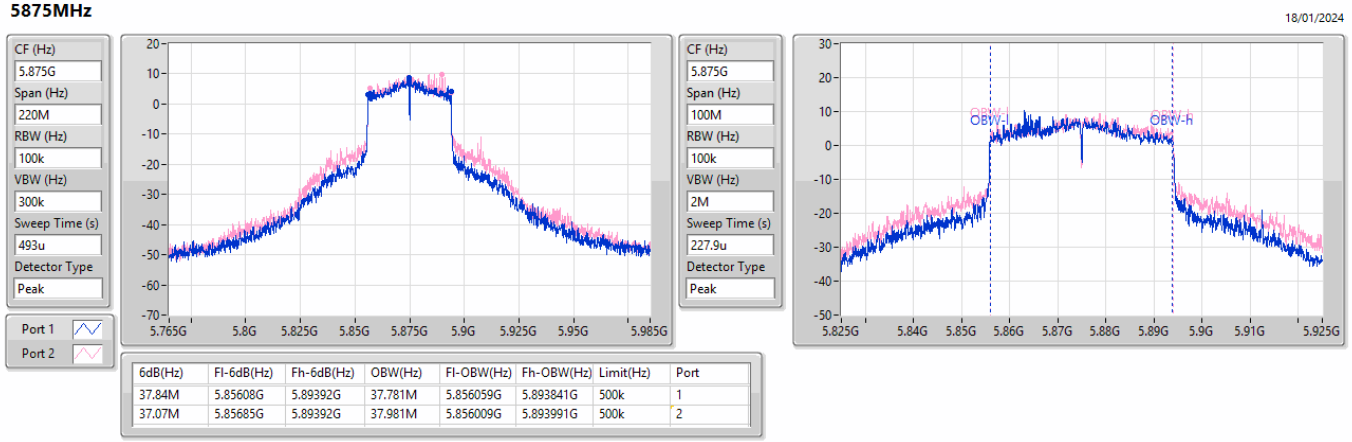
5835MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
65.95M	5.7976G	5.86355G	Inf	1
63.8M	5.8043G	5.8681G	Inf	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **EBW**

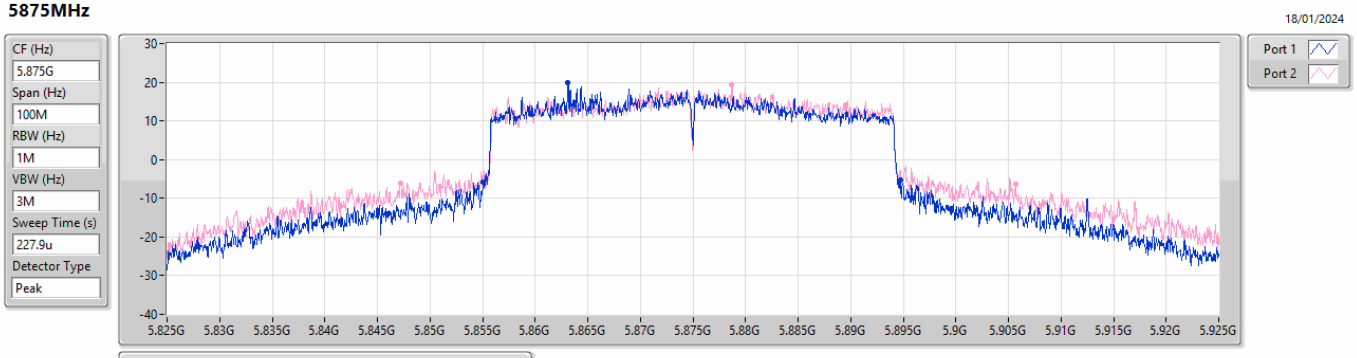
5875MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.84M	5.85608G	5.89392G	37.781M	5.856059G	5.893841G	500k	1
37.07M	5.85685G	5.89392G	37.981M	5.856009G	5.893991G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **EBW**

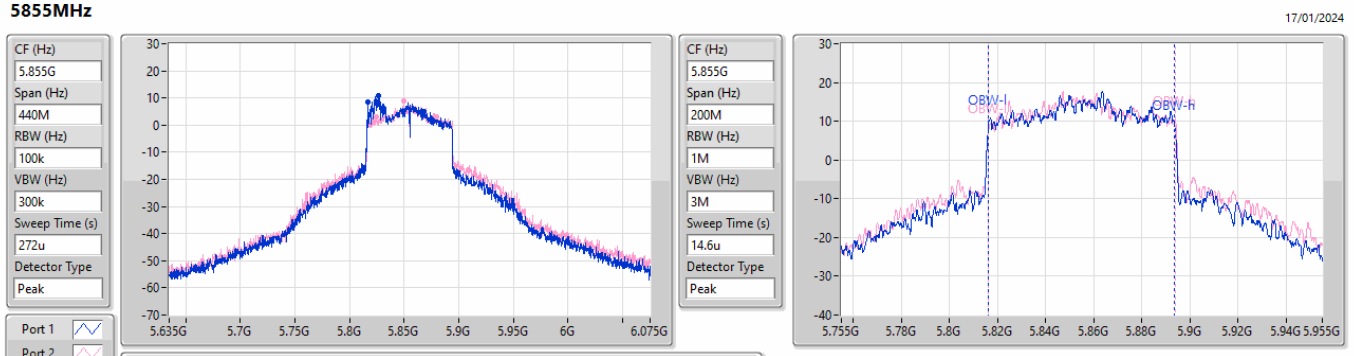
5875MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
39.6M	5.8551G	5.8947G	Inf	1
58.5M	5.8472G	5.9057G	Inf	2

802.11ax HEW80-BF_Nss1,(MCS0)_2TX **EBW**

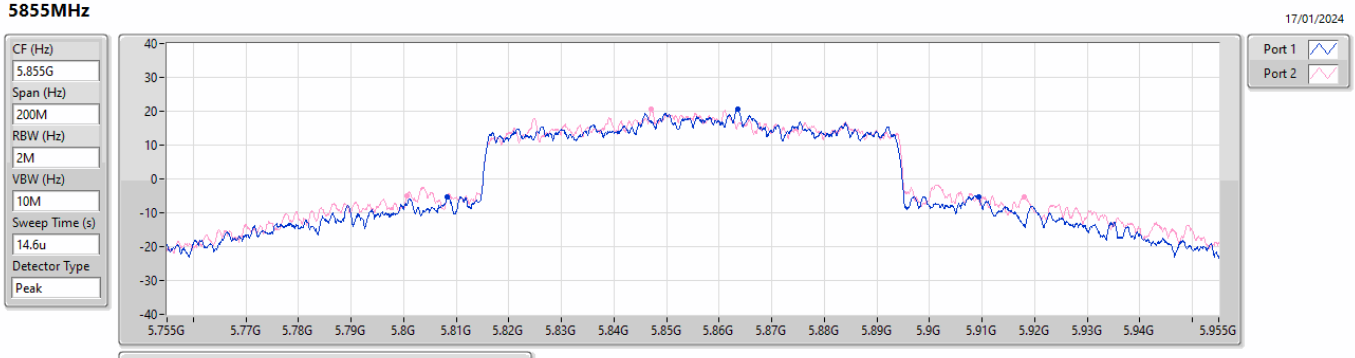
5855MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
51.7M	5.81672G	5.86842G	77.288M	5.816276G	5.893564G	500k	1
54.78M	5.82464G	5.87942G	77.906M	5.81621G	5.894115G	500k	2

802.11ax HEW80-BF_Nss1,(MCS0)_2TX **EBW**

5855MHz

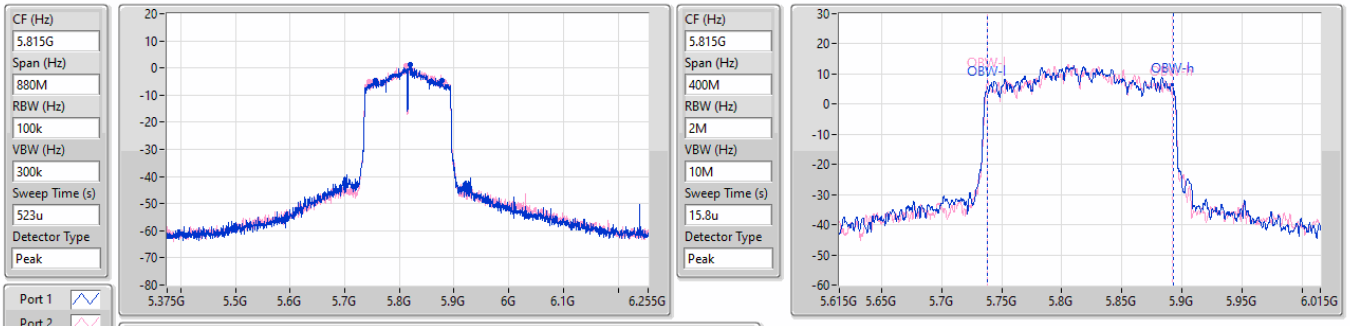


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
101M	5.8083G	5.9093G	Inf	1
117.5M	5.8006G	5.9181G	Inf	2

802.11ax HEW160-BF_Nss1,(MCS0)_2TX **EBW**

5815MHz

17/01/2024

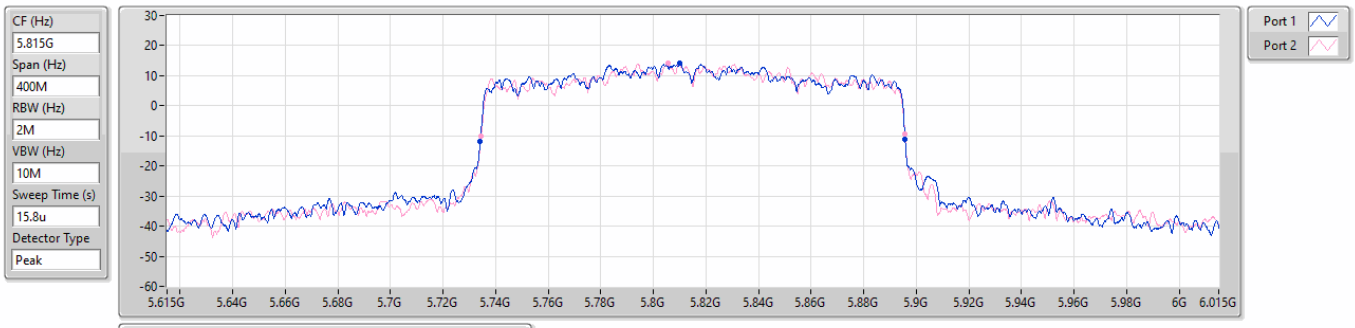


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
121.88M	5.75604G	5.87792G	154.773M	5.73773G	5.892503G	500k	1
137.72M	5.74372G	5.88144G	154.339M	5.73787G	5.892209G	500k	2

802.11ax HEW160-BF_Nss1,(MCS0)_2TX **EBW**

5815MHz

17/01/2024



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
161.8M	5.734G	5.8958G	Inf	1
161.4M	5.7344G	5.8958G	Inf	2

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.725-5.895GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	28.11	0.64714	31.61	1.44877
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	28.92	0.77983	34.96	3.13329
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	29.27	0.84528	35.31	3.39625
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	29.02	0.79799	35.06	3.20627
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	24.73	0.29717	30.77	1.19399

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	3.50	24.61	25.54	28.11	31.61	36.00
5865MHz	Pass	3.50	21.63	22.60	25.15	28.65	36.00
5885MHz	Pass	3.50	21.55	22.59	25.11	28.61	36.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	6.04	25.65	26.15	28.92	34.96	36.00
5865MHz	Pass	6.04	22.71	23.31	26.03	32.07	36.00
5885MHz	Pass	6.04	22.83	22.94	25.90	31.94	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5835MHz	Pass	6.04	26.14	26.37	29.27	35.31	36.00
5875MHz	Pass	6.04	24.70	25.10	27.91	33.95	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5855MHz	Pass	6.04	25.81	26.21	29.02	35.06	36.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5815MHz	Pass	6.04	21.70	21.73	24.73	30.77	36.00

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

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.895GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	13.67	19.71
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	13.87	19.91
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	13.25	19.29
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	11.73	17.77
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	0.86	6.90

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)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	6.04	10.05	11.09	13.61	19.65	20.00
5865MHz	Pass	6.04	9.95	11.02	13.49	19.53	20.00
5885MHz	Pass	6.04	10.09	11.21	13.67	19.71	20.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5845MHz	Pass	6.04	10.55	11.08	13.75	19.79	20.00
5865MHz	Pass	6.04	10.61	11.30	13.87	19.91	20.00
5885MHz	Pass	6.04	10.62	10.89	13.69	19.73	20.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5835MHz	Pass	6.04	7.54	7.82	10.69	16.73	20.00
5875MHz	Pass	6.04	10.13	10.48	13.25	19.29	20.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5855MHz	Pass	6.04	8.51	8.99	11.73	17.77	20.00
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
5815MHz	Pass	6.04	-2.28	-2.02	0.86	6.90	20.00

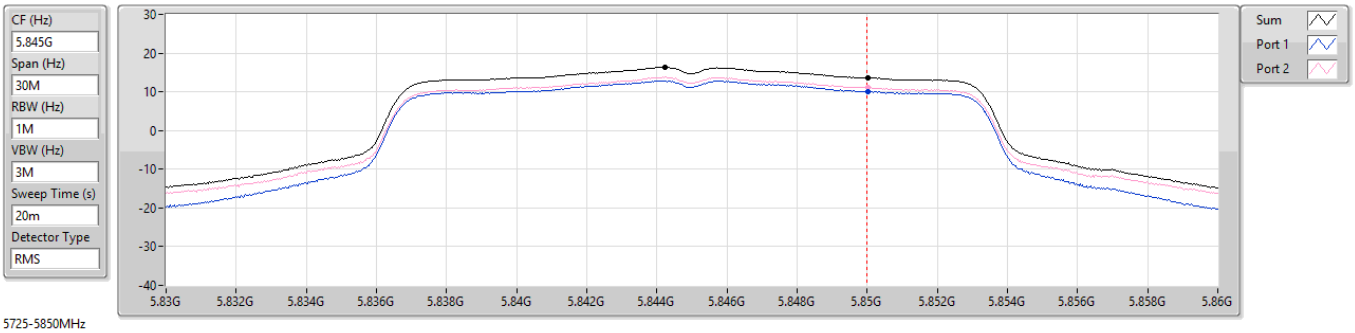
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11a_Nss1,(6Mbps)_2TX

PSD

5845MHz

18/01/2024



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
16.31	13.30	500k	-3.01

5850~5895MHz

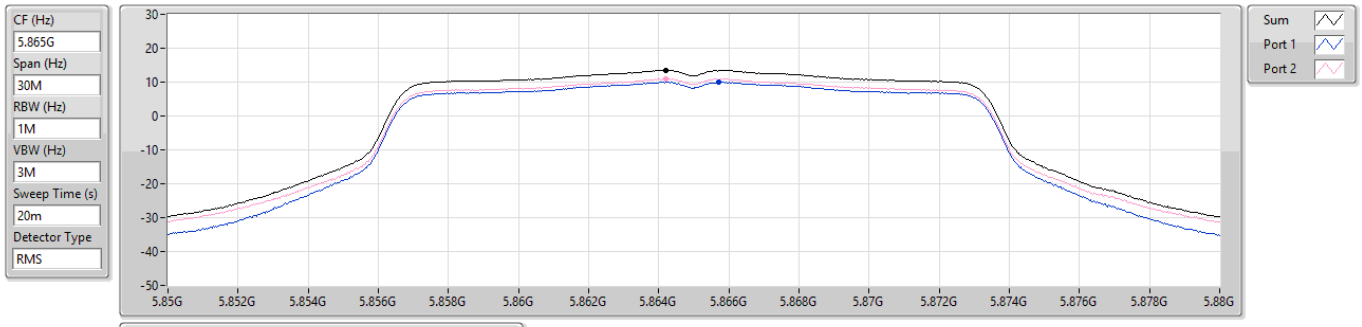
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.61	13.61	10.05	11.09

802.11a_Nss1,(6Mbps)_2TX

PSD

5865MHz

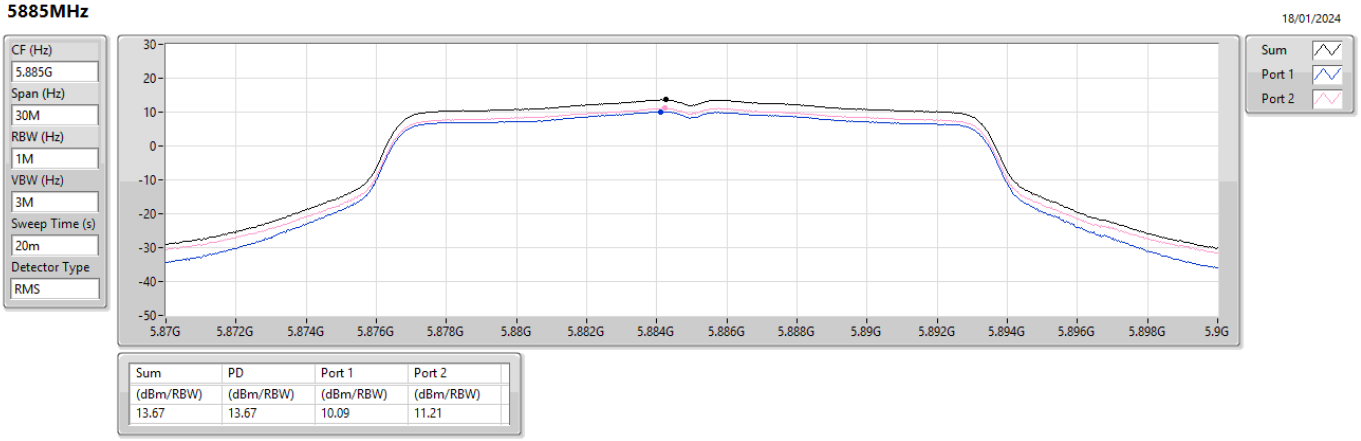
18/01/2024



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.49	13.49	9.95	11.02

802.11a_Nss1,(6Mbps)_2TX **PSD**

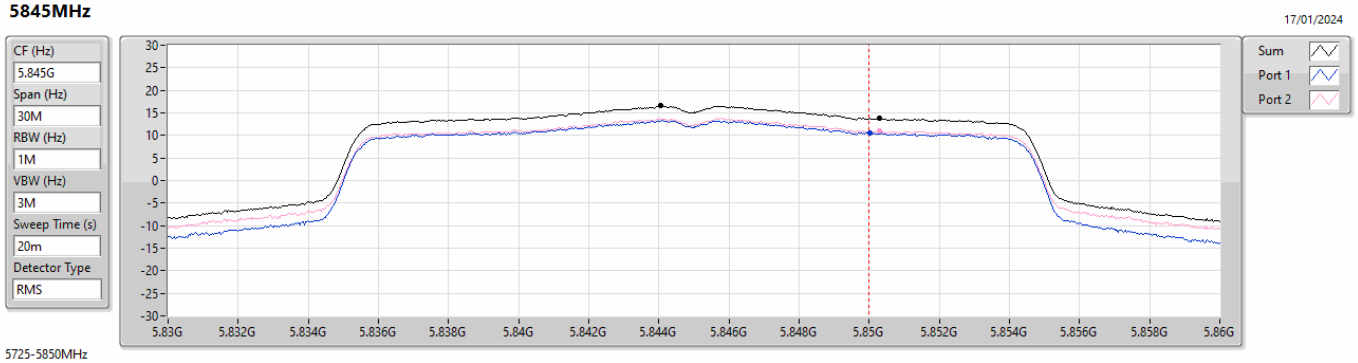
5885MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.67	13.67	10.09	11.21

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **PSD**

5845MHz



5725-5850MHz

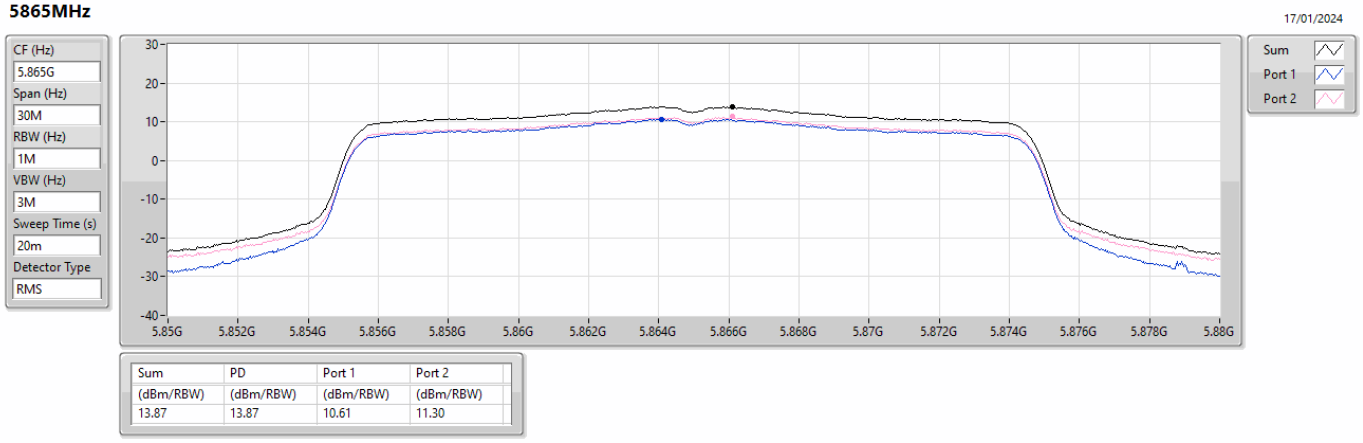
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
16.53	13.52	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.75	13.75	10.55	11.08

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **PSD**

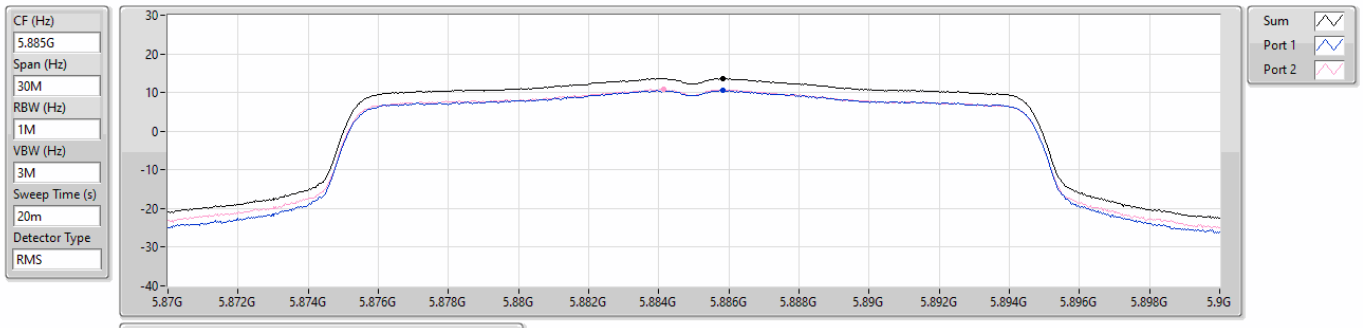
5865MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.87	13.87	10.61	11.30

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **PSD**

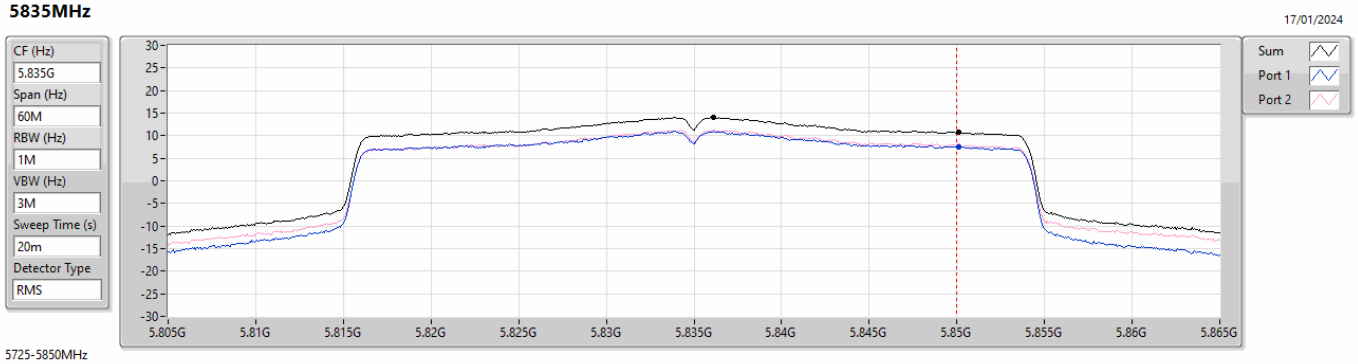
5885MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.69	13.69	10.62	10.89

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **PSD**

5835MHz



5725-5850MHz

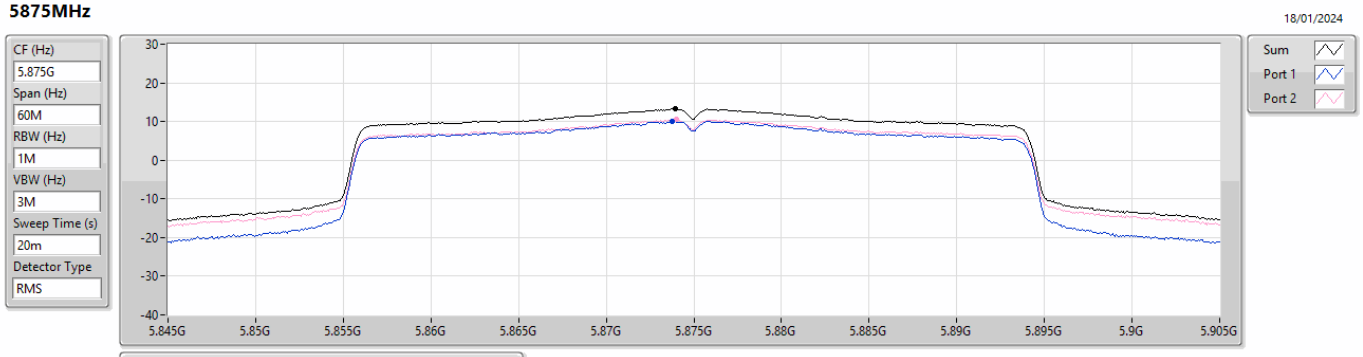
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
14.09	11.08	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.69	10.69	7.54	7.82

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **PSD**

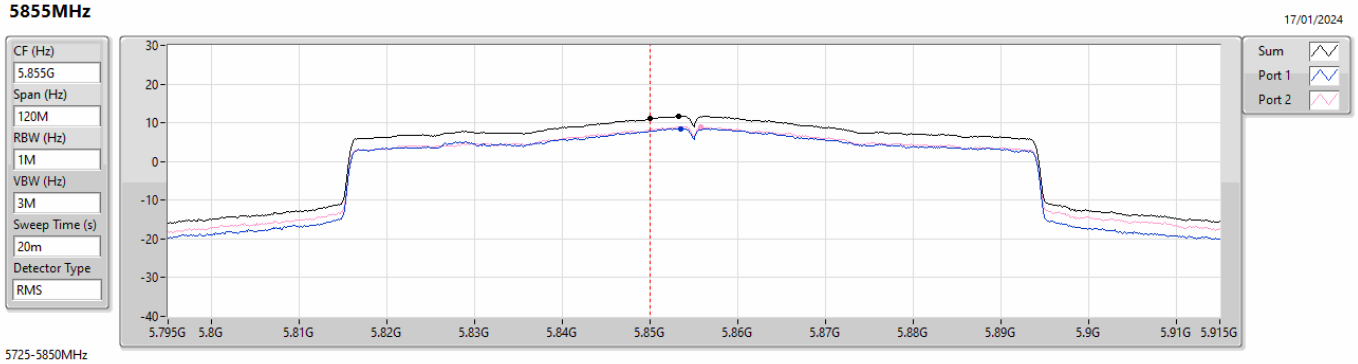
5875MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.25	13.25	10.13	10.48

802.11ax HEW80-BF_Nss1,(MCS0)_2TX **PSD**

5855MHz



5725-5850MHz

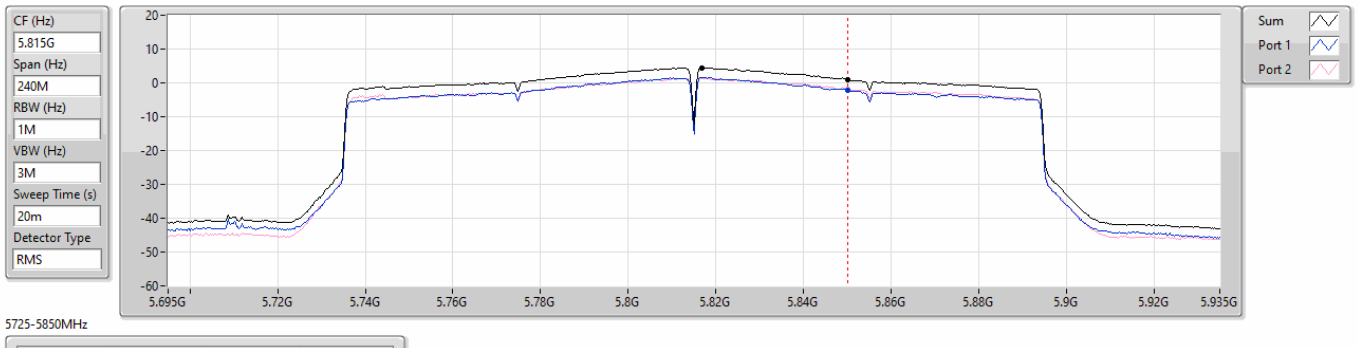
Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
11.03	8.02	500k	-3.01

5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
11.73	11.73	8.51	8.99

802.11ax HEW160-BF_Nss1,(MCS0)_2TX **PSD**

5815MHz



5725-5850MHz

Sum	PD	Limit RBW	BWCF
(dBm)	(dBm)	(Hz)	(dB)
4.49	1.48	500k	-3.01

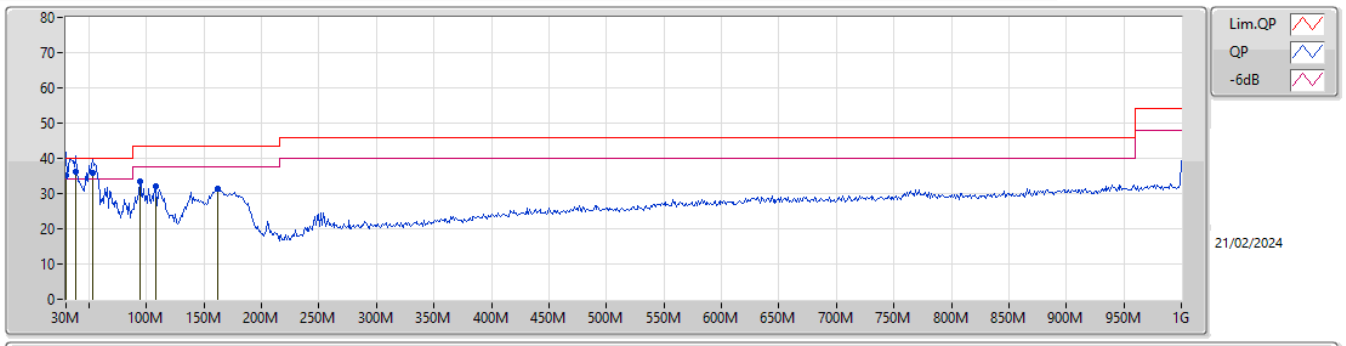
5850~5895MHz

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.86	0.86	-2.28	-2.02

Summary

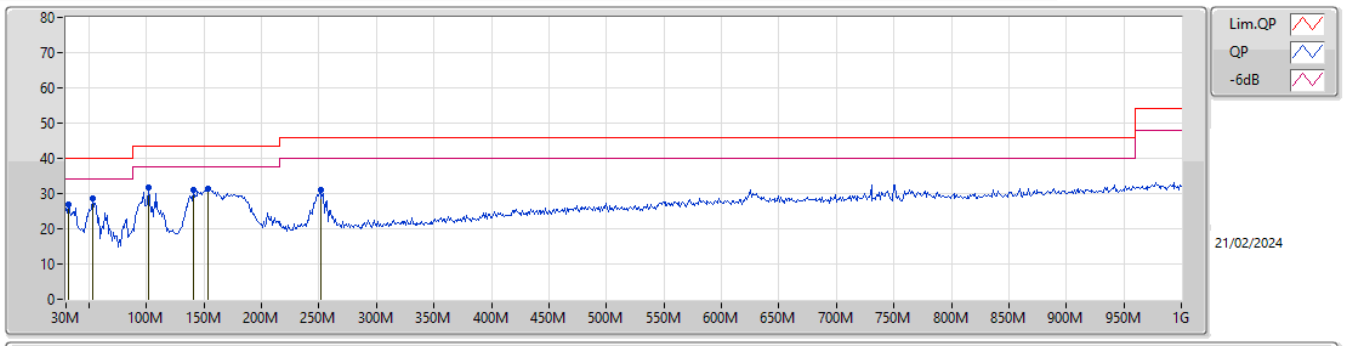
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 4	Pass	QP	38.73M	36.12	40.00	-3.88	Vertical

Mode 4



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	30M	35.14	40.00	-4.86	-6.67	3	Vertical	2	1.00	-	41.81	24.11	0.76	31.54
QP	38.73M	36.12	40.00	-3.88	-11.17	3	Vertical	231	1.00	"Worst"	47.29	19.45	1.14	31.76
QP	53.28M	35.75	40.00	-4.25	-17.43	3	Vertical	161	1.00	-	53.18	13.14	1.31	31.88
PK	94.02M	33.39	43.50	-10.11	-14.47	3	Vertical	34	1.25	-	47.86	15.82	1.71	32.00
PK	108.57M	32.21	43.50	-11.29	-12.40	3	Vertical	360	1.00	-	44.61	17.73	1.83	31.96
PK	161.92M	31.51	43.50	-11.99	-13.93	3	Vertical	169	1.00	-	45.44	15.89	2.23	32.05

Mode 4



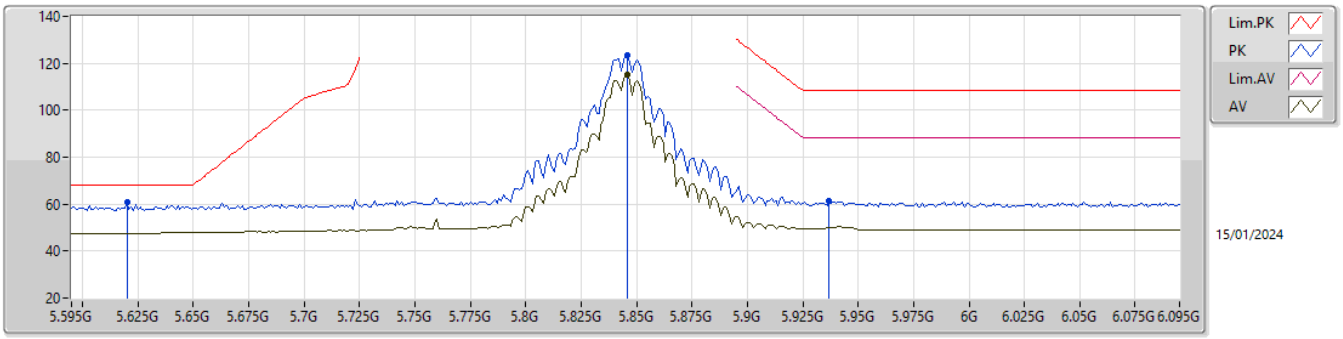
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	31.94M	26.73	40.00	-13.27	-7.54	3	Horizontal	331	1.00	-	34.27	23.16	0.89	31.59
PK	53.28M	28.79	40.00	-11.21	-17.43	3	Horizontal	68	3.00	"Worst"	46.22	13.14	1.31	31.88
PK	101.78M	31.79	43.50	-11.71	-13.16	3	Horizontal	51	3.00	-	44.95	17.01	1.77	31.94
PK	140.58M	30.93	43.50	-12.57	-12.81	3	Horizontal	240	2.00	-	43.74	17.09	2.07	31.97
PK	153.19M	31.51	43.50	-11.99	-13.56	3	Horizontal	257	2.00	-	45.07	16.29	2.17	32.02
PK	251.16M	31.16	46.00	-14.84	-10.82	3	Horizontal	88	1.00	-	41.98	18.38	2.84	32.04

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.725-5.895GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW160-BF_Nss1,(MCS0)_2TX	Pass	PK	5.646G	65.17	68.20	-3.03	3	Vertical	175	1.04	-

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

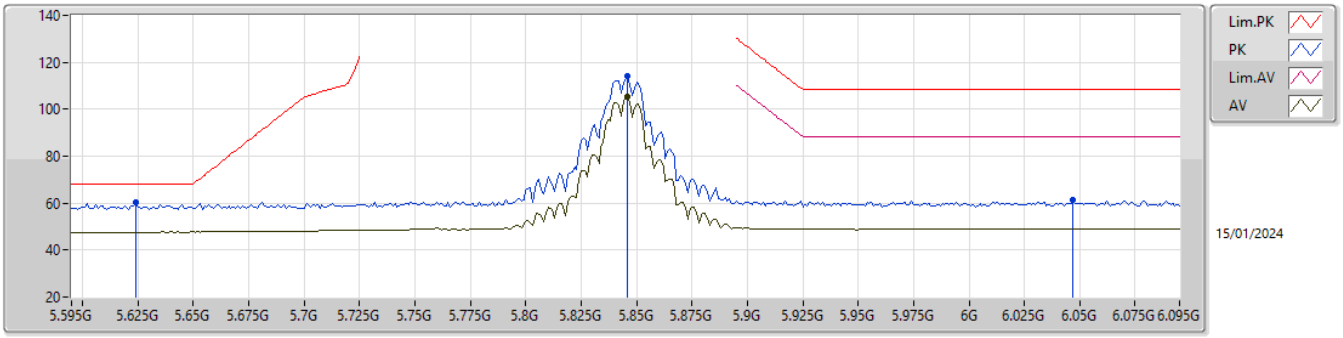


EUT Z_2TX
Setting 27
01-P-Y-1-10

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	5.62G	60.94	68.20	-7.26	54.54	3	Vertical	171	1.02	-	31.74	7.53	32.87
PK	5.846G	123.61	Inf	-Inf	116.76	3	Vertical	171	1.02	-	32.20	7.60	32.95
AV	5.846G	115.30	Inf	-Inf	108.45	3	Vertical	171	1.02	-	32.20	7.60	32.95
PK	5.937G	61.34	108.20	-46.86	54.27	3	Vertical	171	1.02	-	32.40	7.65	32.98

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

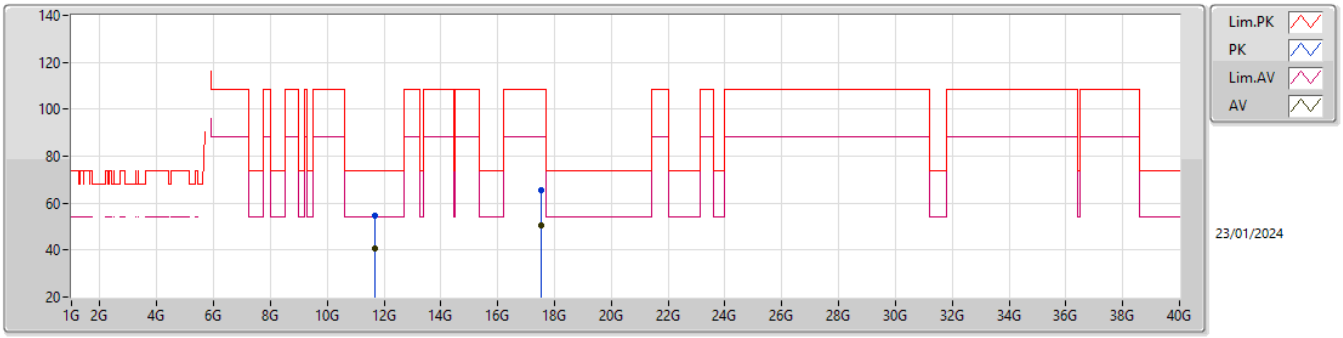


EUT Z_2TX
Setting 27
01-P-Y-1-10

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	5.624G	60.54	68.20	-7.66	54.13	3	Horizontal	105	2.98	-	31.75	7.53	32.87
PK	5.846G	113.90	Inf	-Inf	107.05	3	Horizontal	105	2.98	-	32.20	7.60	32.95
AV	5.846G	105.43	Inf	-Inf	98.58	3	Horizontal	105	2.98	-	32.20	7.60	32.95
PK	6.047G	61.37	108.20	-46.83	54.09	3	Horizontal	105	2.98	-	32.59	7.69	33.00

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

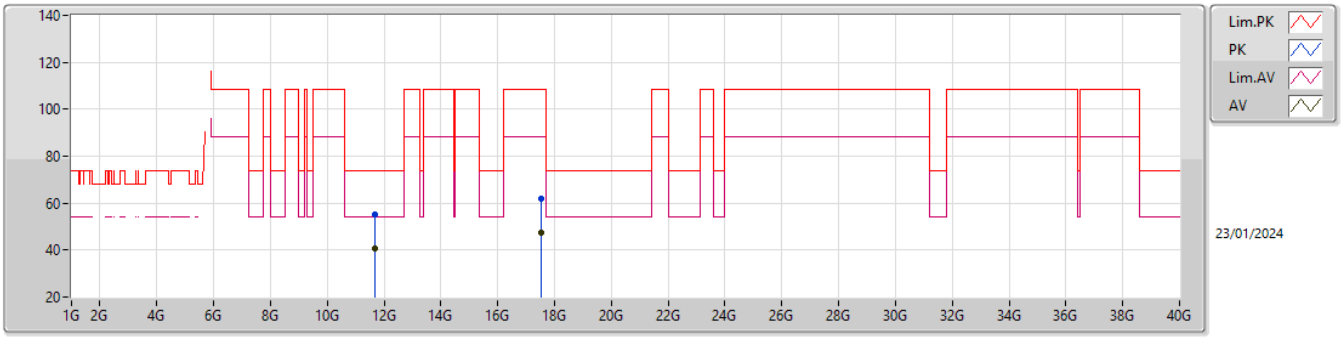


EUT Z_2TX
Setting 27
05-E-G-4

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	11.68946G	54.75	74.00	-19.25	48.61	3	Vertical	52	1.88	-	38.48	10.93	43.27
AV	11.68826G	40.84	54.00	-13.16	34.70	3	Vertical	52	1.88	-	38.48	10.93	43.27
PK	17.53506G	65.39	108.20	-42.81	54.82	3	Vertical	300	2.02	-	39.35	13.14	41.92
AV	17.53542G	50.31	88.20	-37.89	39.73	3	Vertical	300	2.02	-	39.35	13.14	41.91

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5845MHz_TX

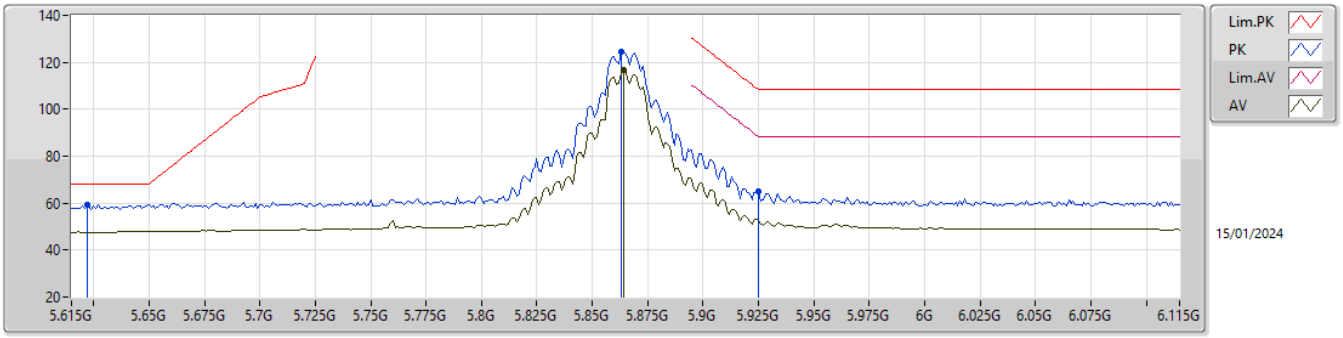


EUT Z_2TX
Setting 27
05-E-G-4

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	11.68238G	54.94	74.00	-19.06	48.82	3	Horizontal	9	1.57	-	38.46	10.93	43.27
AV	11.68862G	40.67	54.00	-13.33	34.53	3	Horizontal	9	1.57	-	38.48	10.93	43.27
PK	17.535G	61.74	108.20	-46.46	51.17	3	Horizontal	138	2.77	-	39.35	13.14	41.92
AV	17.53512G	47.48	88.20	-40.72	36.91	3	Horizontal	138	2.77	-	39.35	13.14	41.92

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

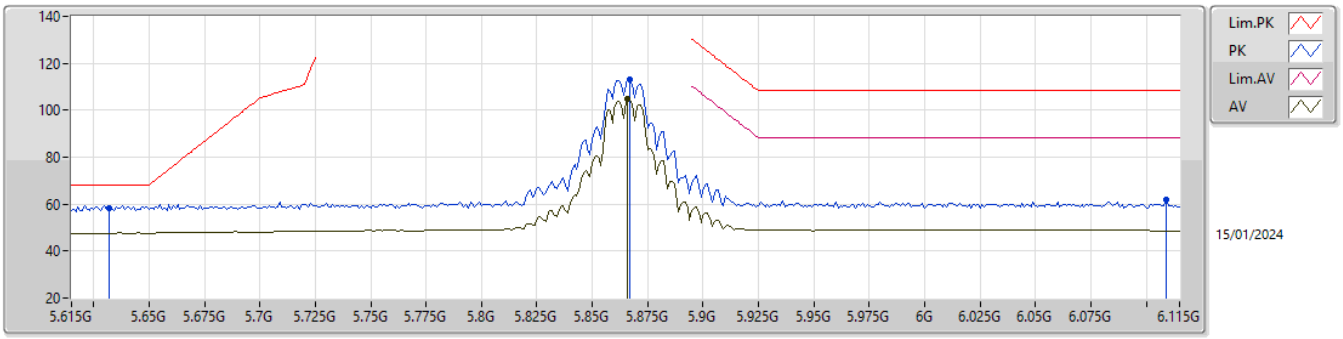


EUT Z_2TX
Setting 27
01-P-Y-1-10

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	5.622G	59.25	68.20	-8.95	52.85	3	Vertical	22	1.03	-	31.74	7.53	32.87
PK	5.863G	124.64	Inf	-Inf	117.73	3	Vertical	22	1.03	-	32.25	7.61	32.95
AV	5.864G	116.73	Inf	-Inf	109.81	3	Vertical	22	1.03	-	32.26	7.61	32.95
PK	5.925G	65.01	108.20	-43.19	57.94	3	Vertical	22	1.03	-	32.40	7.64	32.97

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

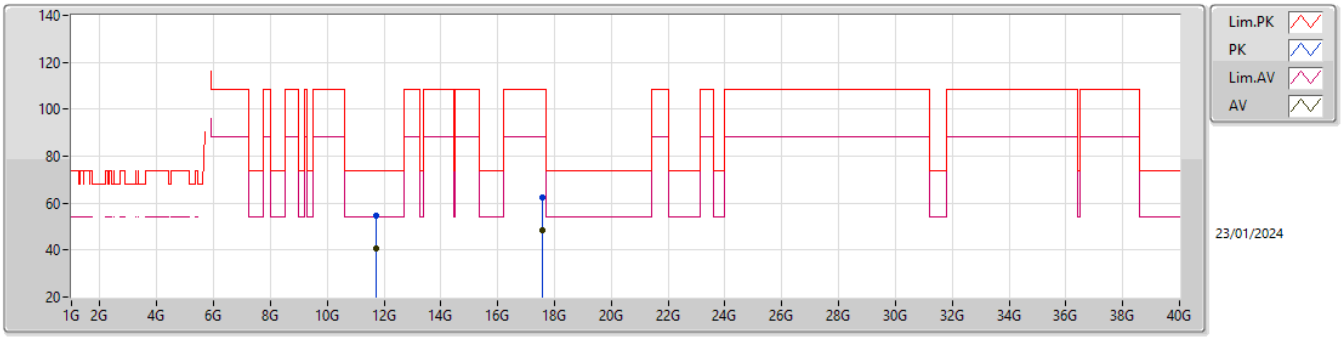


EUT Z_2TX
Setting 27
01-P-Y-1-10

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	5.632G	58.36	68.20	-9.84	51.94	3	Horizontal	121	2.94	-	31.76	7.53	32.87
PK	5.867G	113.15	Inf	-Inf	106.22	3	Horizontal	121	2.94	-	32.27	7.61	32.95
AV	5.866G	104.99	Inf	-Inf	98.07	3	Horizontal	121	2.94	-	32.26	7.61	32.95
PK	6.109G	61.64	108.20	-46.56	54.41	3	Horizontal	121	2.94	-	32.54	7.70	33.01

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

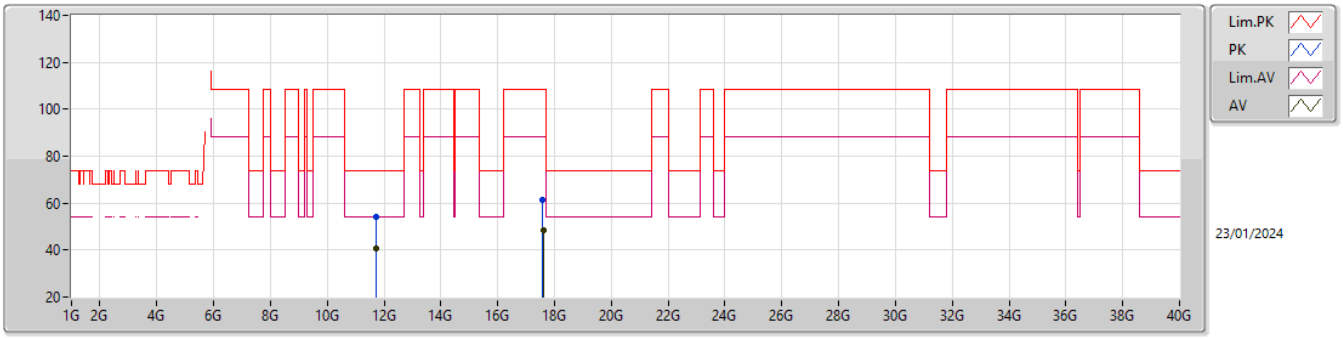


EUT Z_2TX
Setting 27
05-E-G-4

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	11.73708G	54.59	74.00	-19.41	48.40	3	Vertical	125	2.90	-	38.50	10.95	43.26
AV	11.72454G	40.54	54.00	-13.46	34.35	3	Vertical	125	2.90	-	38.50	10.95	43.26
PK	17.5944G	62.25	108.20	-45.95	51.40	3	Vertical	204	1.80	-	39.50	13.17	41.82
AV	17.59512G	48.54	88.20	-39.66	37.69	3	Vertical	204	1.80	-	39.50	13.17	41.82

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5865MHz_TX

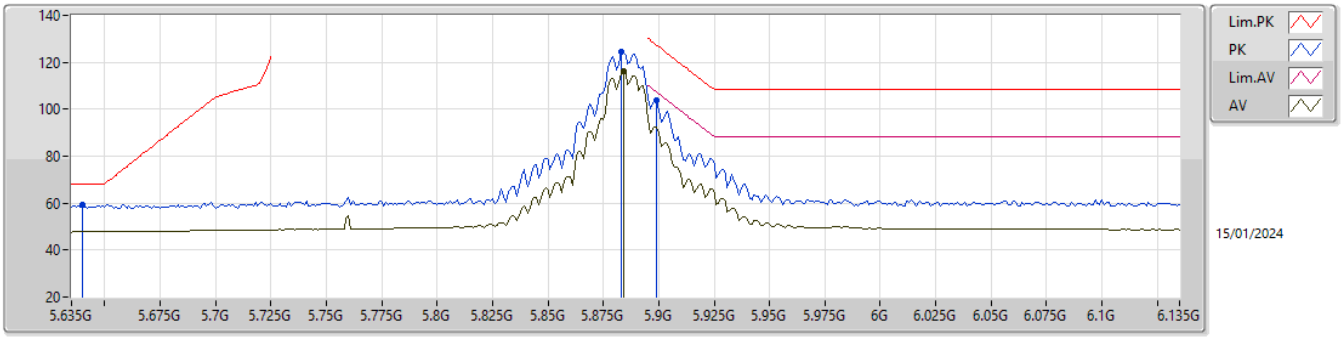


EUT Z_2TX
Setting 27
05-E-G-4

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	11.7315G	54.03	74.00	-19.97	47.84	3	Horizontal	8	1.72	-	38.50	10.95	43.26
AV	11.72214G	40.51	54.00	-13.49	34.32	3	Horizontal	8	1.72	-	38.50	10.95	43.26
PK	17.59158G	61.61	108.20	-46.59	50.77	3	Horizontal	121	1.67	-	39.50	13.17	41.83
AV	17.5953G	48.22	88.20	-39.98	37.37	3	Horizontal	121	1.67	-	39.50	13.17	41.82

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

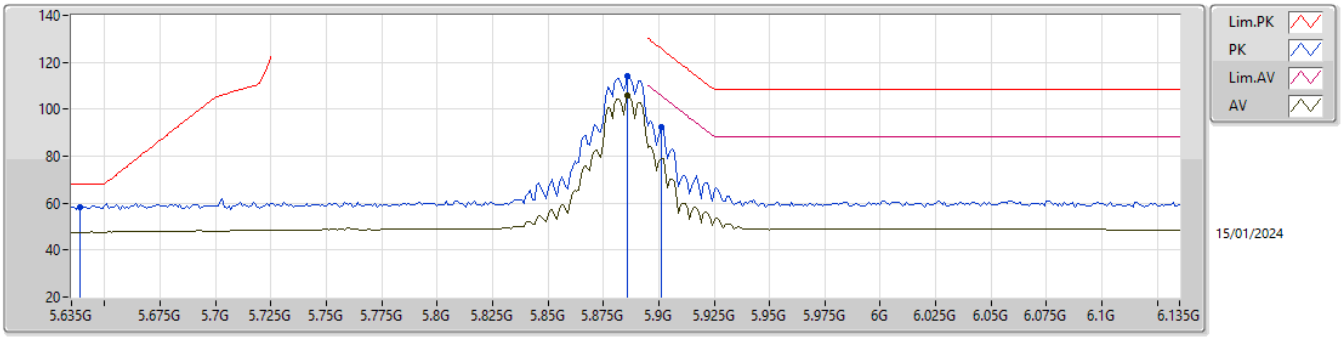


EUT Z_2TX
Setting 27
01-P-Y-1-10

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	5.64G	59.20	68.20	-9.00	52.77	3	Vertical	203	1.12	-	31.78	7.53	32.88
PK	5.883G	124.40	Inf	-Inf	117.41	3	Vertical	203	1.12	-	32.33	7.62	32.96
AV	5.884G	116.10	Inf	-Inf	109.10	3	Vertical	203	1.12	-	32.34	7.62	32.96
PK	5.899G	103.64	127.27	-23.63	96.58	3	Vertical	203	1.12	-	32.40	7.63	32.97

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

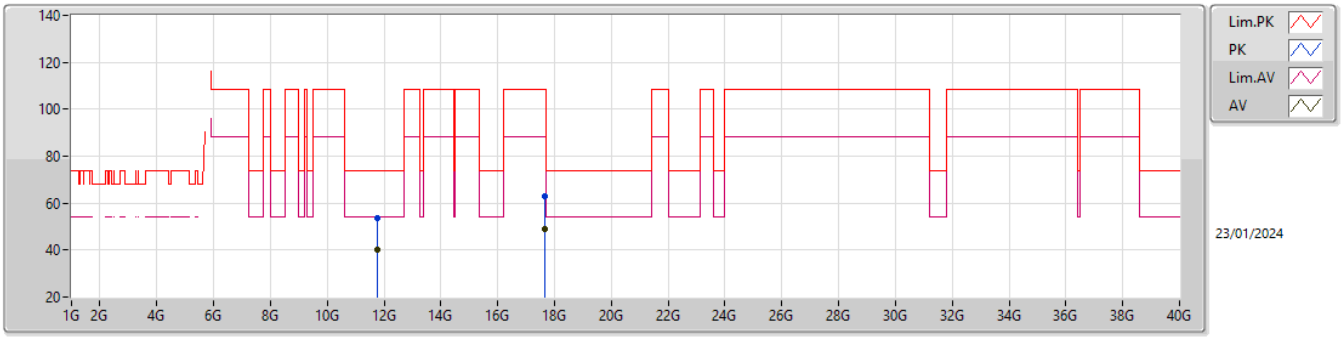


EUT Z_2TX
Setting 27
01-P-Y-1-10

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	5.639G	58.37	68.20	-9.83	51.94	3	Horizontal	121	2.92	-	31.78	7.53	32.88
PK	5.886G	114.06	Inf	-Inf	107.06	3	Horizontal	121	2.92	-	32.34	7.62	32.96
AV	5.886G	105.61	Inf	-Inf	98.61	3	Horizontal	121	2.92	-	32.34	7.62	32.96
PK	5.901G	92.16	125.80	-33.64	85.10	3	Horizontal	121	2.92	-	32.40	7.63	32.97

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

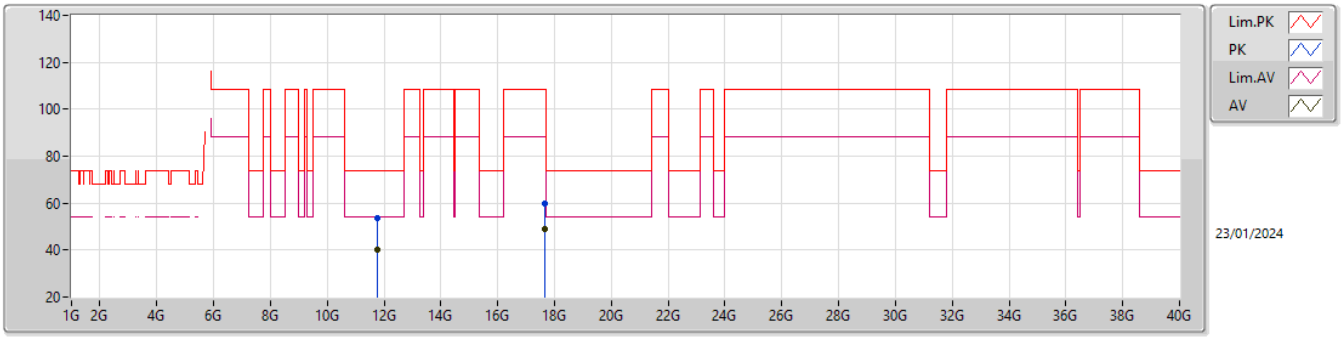


EUT Z_2TX
Setting 27
05-E-G-4

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	11.78152G	53.78	74.00	-20.22	47.62	3	Vertical	149	1.28	-	38.44	10.97	43.25
AV	11.7781G	40.39	54.00	-13.61	34.24	3	Vertical	149	1.28	-	38.44	10.97	43.26
PK	17.65524G	62.91	108.20	-45.29	51.78	3	Vertical	17	1.82	-	39.66	13.20	41.73
AV	17.65524G	48.94	88.20	-39.26	37.81	3	Vertical	17	1.82	-	39.66	13.20	41.73

5.725-5.895GHz_802.11a_Nss1,(6Mbps)_2TX

5885MHz_TX

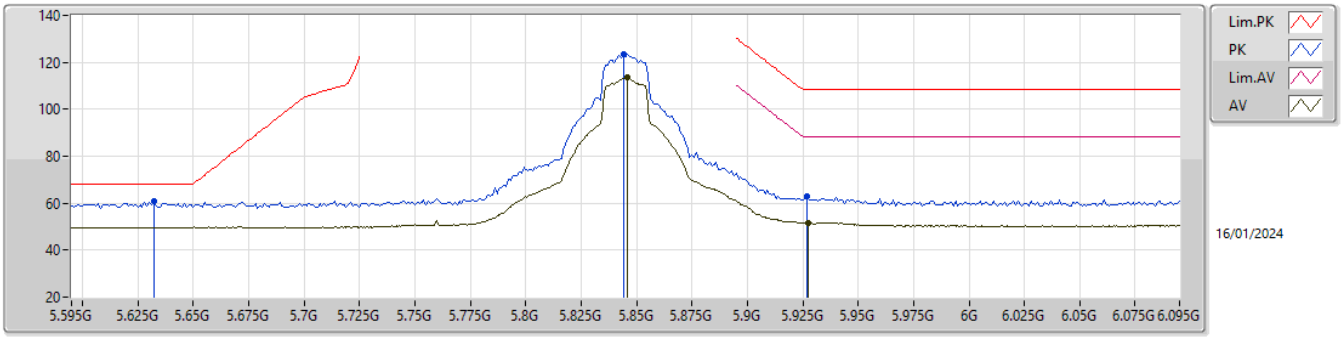


EUT Z_2TX
Setting 27
05-E-G-4

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	11.7772G	53.87	74.00	-20.13	47.71	3	Horizontal	281	2.48	-	38.45	10.97	43.26
AV	11.78038G	40.34	54.00	-13.66	34.19	3	Horizontal	281	2.48	-	38.44	10.97	43.26
PK	17.65392G	59.89	108.20	-48.31	48.77	3	Horizontal	244	2.79	-	39.65	13.20	41.73
AV	17.65476G	49.22	88.20	-38.98	38.09	3	Horizontal	244	2.79	-	39.66	13.20	41.73

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

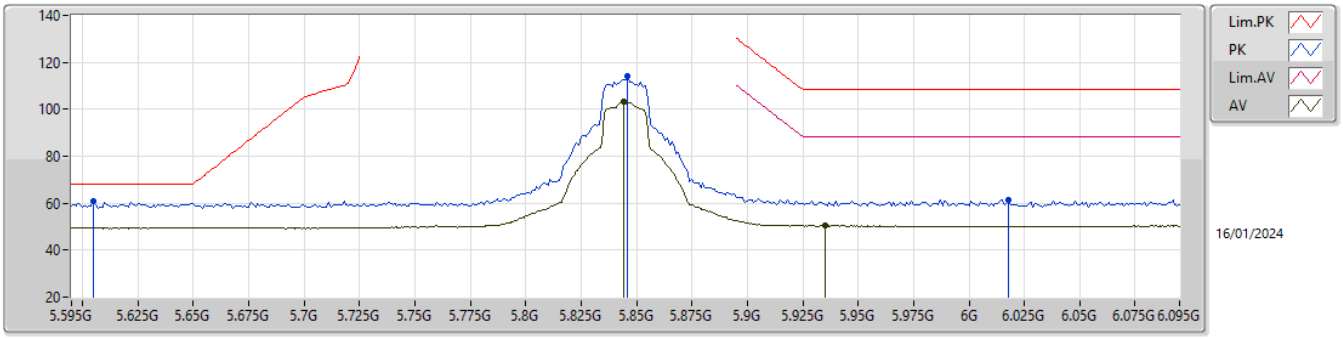


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.632G	60.71	68.20	-7.49	54.36	3	Vertical	86	1.00	-	34.40	6.91	34.96
PK	5.844G	123.51	Inf	-Inf	117.33	3	Vertical	86	1.00	-	34.30	6.95	35.07
AV	5.846G	113.53	Inf	-Inf	107.35	3	Vertical	86	1.00	-	34.30	6.95	35.07
PK	5.927G	62.71	108.20	-45.49	56.29	3	Vertical	86	1.00	-	34.55	6.97	35.10
AV	5.9275G	51.78	88.20	-36.42	45.37	3	Vertical	86	1.00	-	34.55	6.97	35.11

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

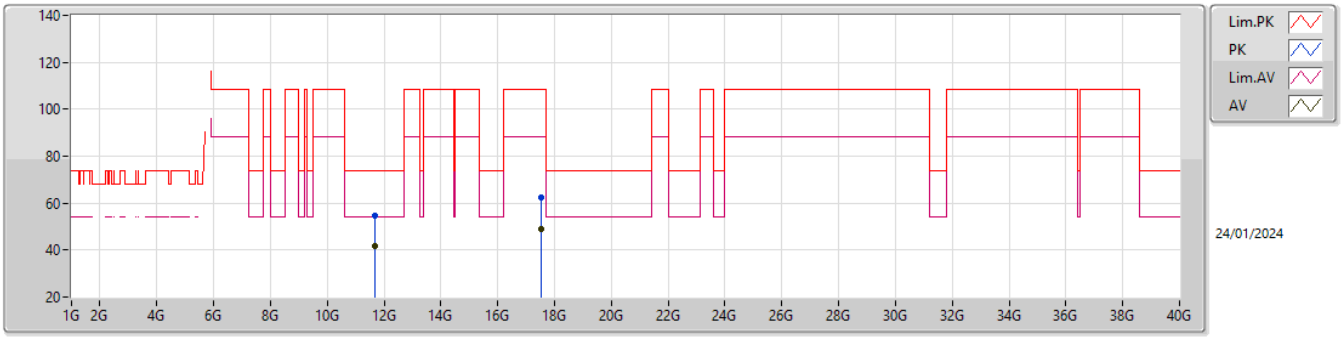


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.605G	61.01	68.20	-7.19	54.65	3	Horizontal	105	3.00	-	34.40	6.91	34.95
PK	5.846G	113.95	Inf	-Inf	107.77	3	Horizontal	105	3.00	-	34.30	6.95	35.07
AV	5.844G	103.42	Inf	-Inf	97.24	3	Horizontal	105	3.00	-	34.30	6.95	35.07
PK	6.018G	61.22	108.20	-46.98	54.61	3	Horizontal	105	3.00	-	34.74	7.00	35.13
AV	5.935G	50.51	88.20	-37.69	44.08	3	Horizontal	105	3.00	-	34.57	6.97	35.11

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

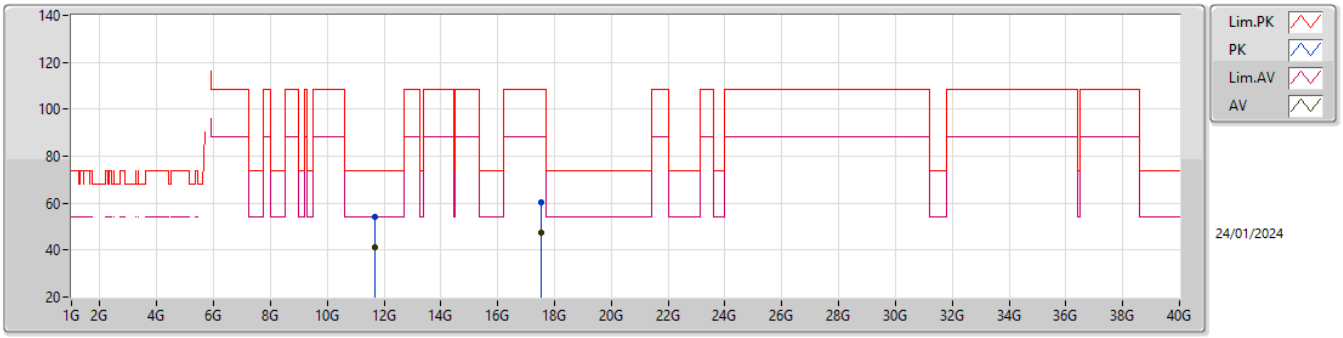


EUT Z_2TX
Setting 30
05-E-G-4

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	11.6939G	54.52	74.00	-19.48	48.36	3	Vertical	137	1.80	-	38.49	10.94	43.27
AV	11.68178G	41.56	54.00	-12.44	35.44	3	Vertical	137	1.80	-	38.46	10.93	43.27
PK	17.53308G	62.29	108.20	-45.91	51.74	3	Vertical	360	3.00	-	39.33	13.14	41.92
AV	17.53482G	48.79	88.20	-39.41	38.22	3	Vertical	360	3.00	-	39.35	13.14	41.92

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5845MHz_TX

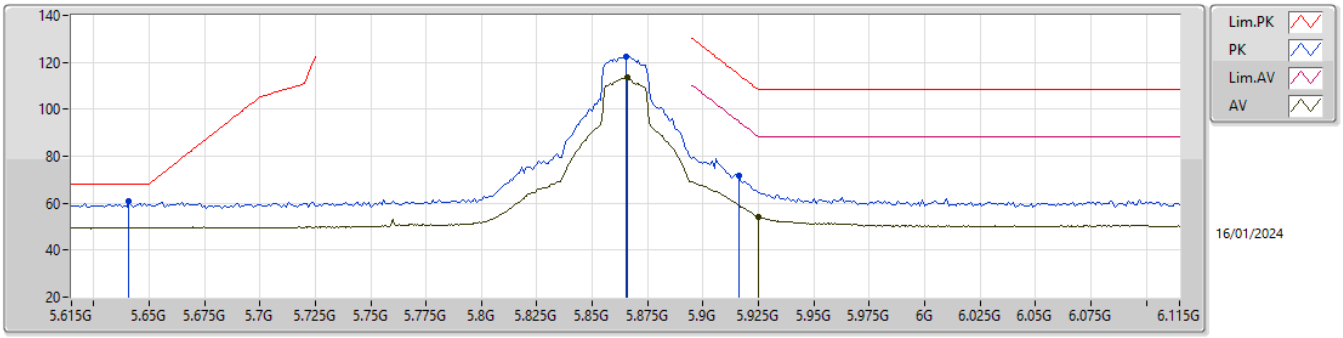


EUT Z_2TX
Setting 30
05-E-G-4

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	11.6816G	54.16	74.00	-19.84	48.04	3	Horizontal	326	2.44	-	38.46	10.93	43.27
AV	11.68778G	41.25	54.00	-12.75	35.11	3	Horizontal	326	2.44	-	38.48	10.93	43.27
PK	17.53056G	60.40	108.20	-47.80	49.87	3	Horizontal	18	2.15	-	39.31	13.14	41.92
AV	17.53608G	47.54	88.20	-40.66	36.95	3	Horizontal	18	2.15	-	39.36	13.14	41.91

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

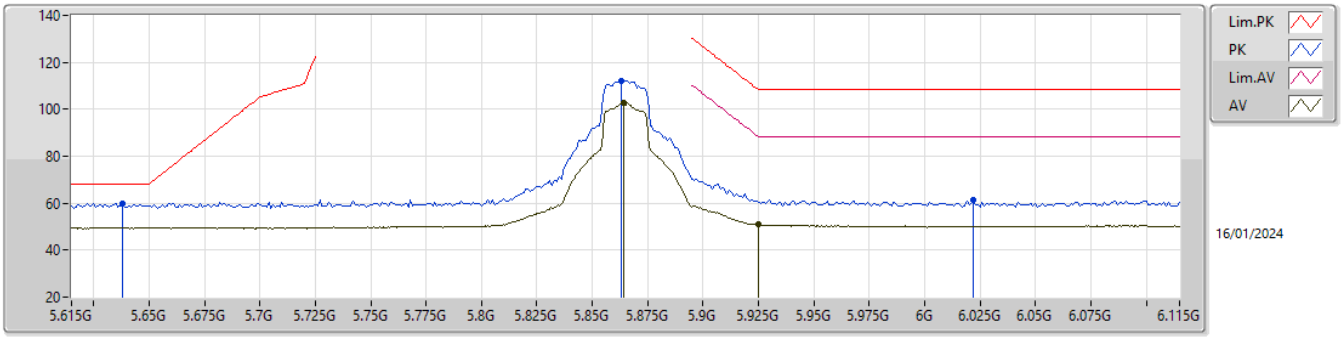


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.641G	60.64	68.20	-7.56	54.29	3	Vertical	166	1.03	-	34.40	6.92	34.97
PK	5.865G	122.58	Inf	-Inf	116.35	3	Vertical	166	1.03	-	34.36	6.95	35.08
AV	5.866G	113.69	Inf	-Inf	107.46	3	Vertical	166	1.03	-	34.36	6.95	35.08
PK	5.916G	71.78	114.80	-43.02	65.39	3	Vertical	166	1.03	-	34.53	6.96	35.10
AV	5.925G	54.29	88.20	-33.91	47.87	3	Vertical	166	1.03	-	34.55	6.97	35.10

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

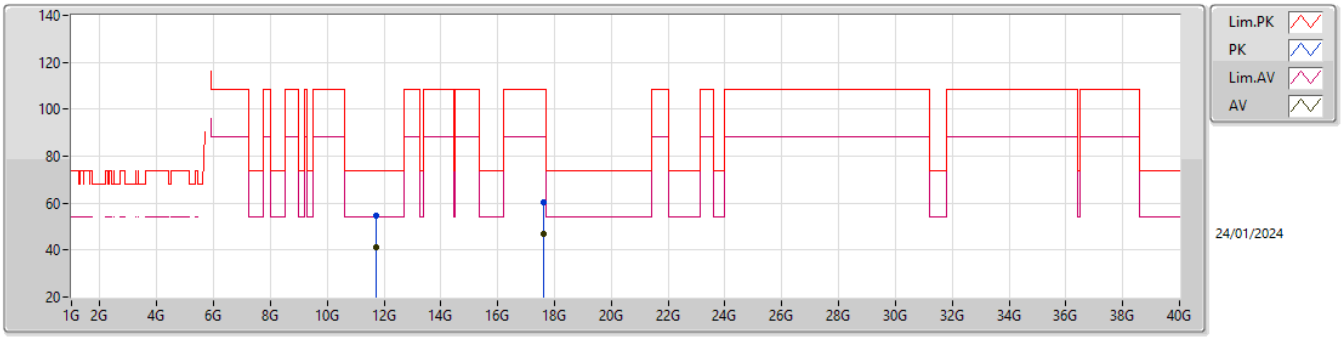


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.638G	59.91	68.20	-8.29	53.56	3	Horizontal	107	2.41	-	34.40	6.92	34.97
PK	5.863G	112.14	Inf	-Inf	105.91	3	Horizontal	107	2.41	-	34.35	6.95	35.07
AV	5.864G	102.65	Inf	-Inf	96.41	3	Horizontal	107	2.41	-	34.36	6.95	35.07
AV	5.925G	50.81	88.20	-37.39	44.39	3	Horizontal	107	2.41	-	34.55	6.97	35.10
PK	6.022G	61.31	108.20	-46.89	54.70	3	Horizontal	107	2.41	-	34.74	7.00	35.13

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

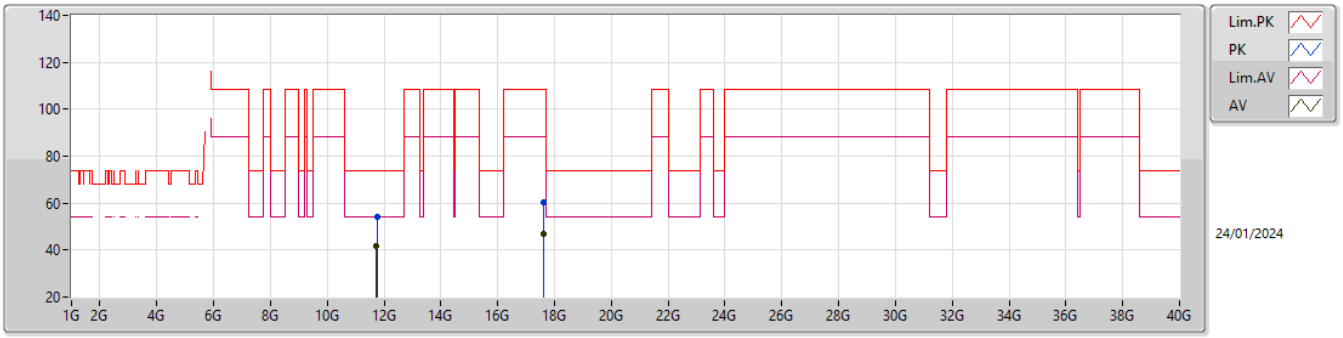


EUT Z_2TX
Setting 30
05-E-G-4

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	11.727G	54.65	74.00	-19.35	48.46	3	Vertical	226	2.30	-	38.50	10.95	43.26
AV	11.74254G	41.44	54.00	-12.56	35.24	3	Vertical	226	2.30	-	38.50	10.96	43.26
PK	17.60238G	60.24	108.20	-47.96	49.37	3	Vertical	338	1.00	-	39.50	13.18	41.81
AV	17.60334G	47.01	88.20	-41.19	36.13	3	Vertical	338	1.00	-	39.51	13.18	41.81

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5865MHz_TX

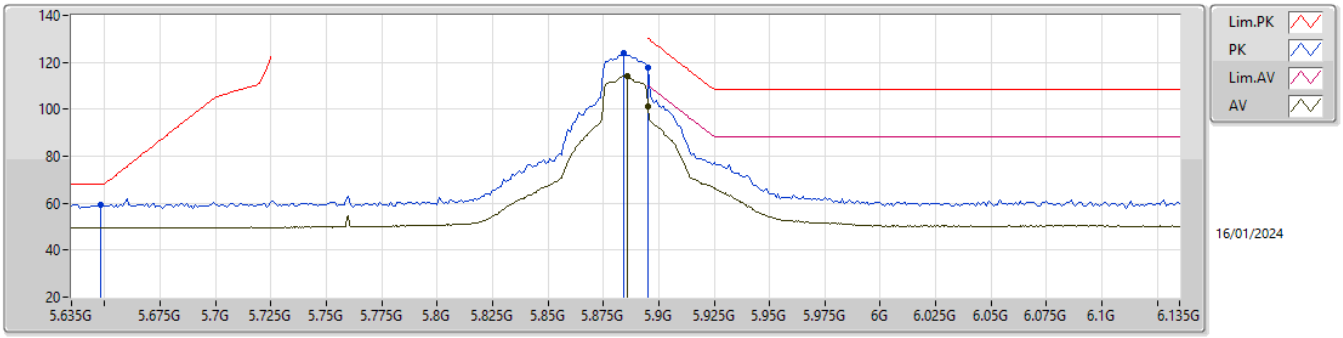


EUT Z_2TX
Setting 30
05-E-G-4

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	11.745G	54.18	74.00	-19.82	47.98	3	Horizontal	272	2.07	-	38.50	10.96	43.26
AV	11.7186G	41.60	54.00	-12.40	35.42	3	Horizontal	272	2.07	-	38.50	10.95	43.27
PK	17.60826G	60.13	108.20	-48.07	49.23	3	Horizontal	122	2.03	-	39.52	13.18	41.80
AV	17.60838G	47.15	88.20	-41.05	36.25	3	Horizontal	122	2.03	-	39.52	13.18	41.80

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

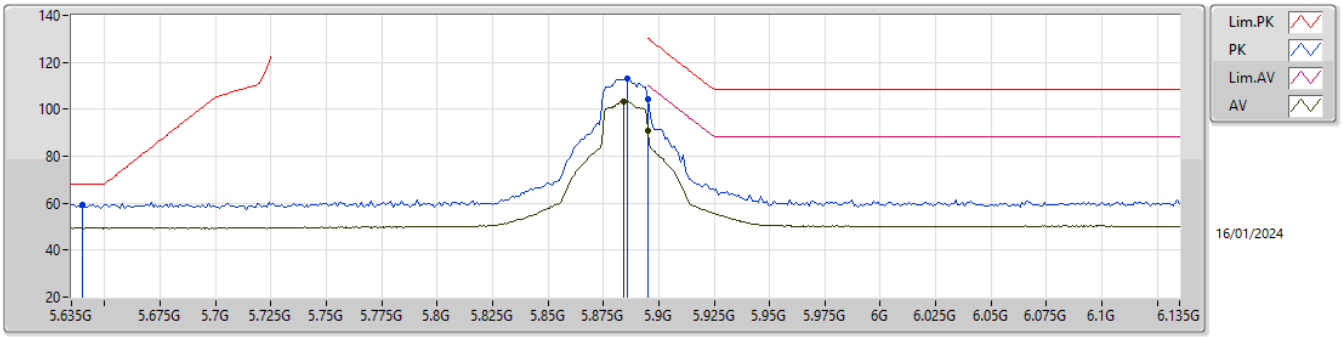


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.648G	59.39	68.20	-8.81	53.04	3	Vertical	102	1.00	-	34.40	6.92	34.97
PK	5.884G	123.90	Inf	-Inf	117.58	3	Vertical	102	1.00	-	34.44	6.96	35.08
AV	5.886G	114.37	Inf	-Inf	108.06	3	Vertical	102	1.00	-	34.44	6.96	35.09
PK	5.895G	117.62	130.20	-12.58	111.27	3	Vertical	102	1.00	-	34.48	6.96	35.09
AV	5.895G	101.23	110.20	-8.97	94.88	3	Vertical	102	1.00	-	34.48	6.96	35.09

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

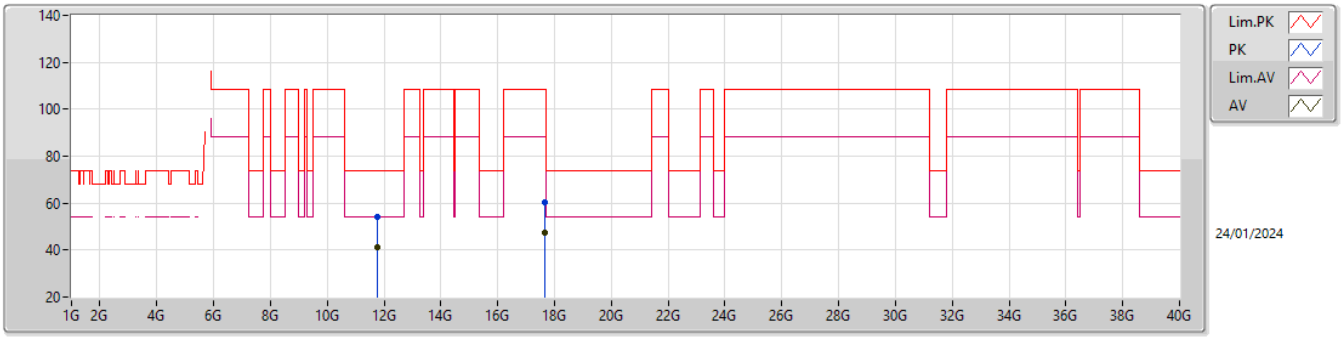


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.64G	59.42	68.20	-8.78	53.07	3	Horizontal	354	2.46	-	34.40	6.92	34.97
PK	5.886G	113.12	Inf	-Inf	106.81	3	Horizontal	354	2.46	-	34.44	6.96	35.09
AV	5.884G	103.51	Inf	-Inf	97.19	3	Horizontal	354	2.46	-	34.44	6.96	35.08
PK	5.895G	104.35	130.20	-25.85	98.00	3	Horizontal	354	2.46	-	34.48	6.96	35.09
AV	5.895G	90.71	110.20	-19.49	84.36	3	Horizontal	354	2.46	-	34.48	6.96	35.09

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

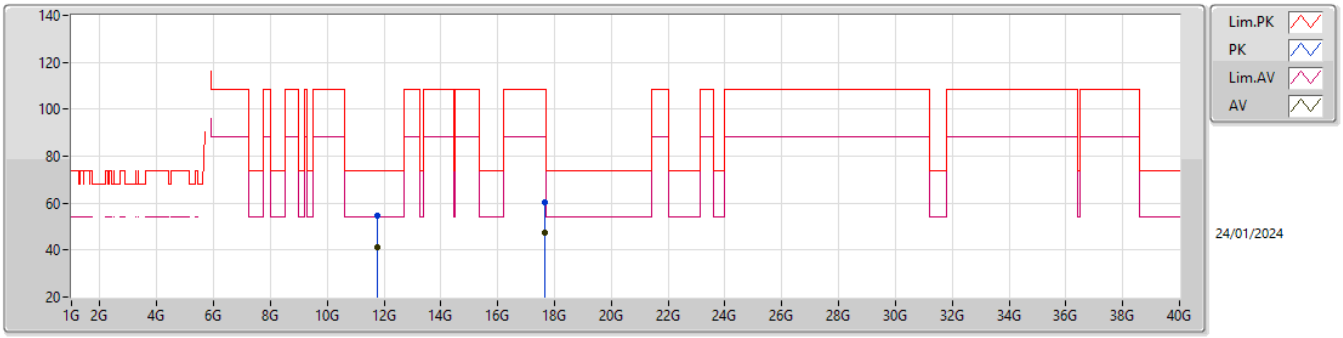


EUT Z_2TX
Setting 30
05-E-G-4

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	11.75596G	54.32	74.00	-19.68	48.13	3	Vertical	180	1.06	-	38.49	10.96	43.26
AV	11.75986G	41.19	54.00	-12.81	35.01	3	Vertical	180	1.06	-	38.48	10.96	43.26
PK	17.6586G	60.48	108.20	-47.72	49.30	3	Vertical	34	1.19	-	39.70	13.20	41.72
AV	17.6652G	47.65	88.20	-40.55	36.38	3	Vertical	34	1.19	-	39.78	13.20	41.71

5.725-5.895GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

5885MHz_TX

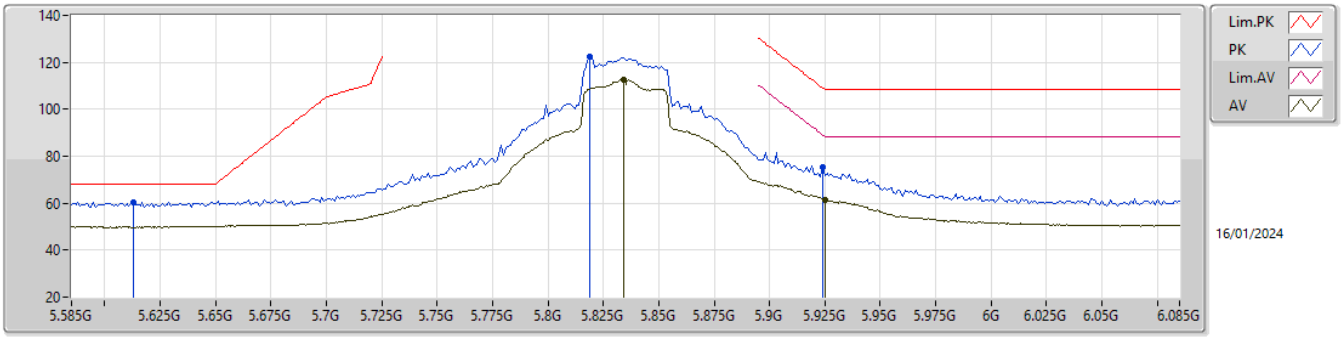


EUT Z_2TX
Setting 30
05-E-G-4

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	11.77804G	54.81	74.00	-19.19	48.66	3	Horizontal	102	2.77	-	38.44	10.97	43.26
AV	11.776G	41.20	54.00	-12.80	35.04	3	Horizontal	102	2.77	-	38.45	10.97	43.26
PK	17.66832G	60.60	108.20	-47.60	49.28	3	Horizontal	10	1.12	-	39.82	13.21	41.71
AV	17.6673G	47.38	88.20	-40.82	36.07	3	Horizontal	10	1.12	-	39.81	13.21	41.71

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

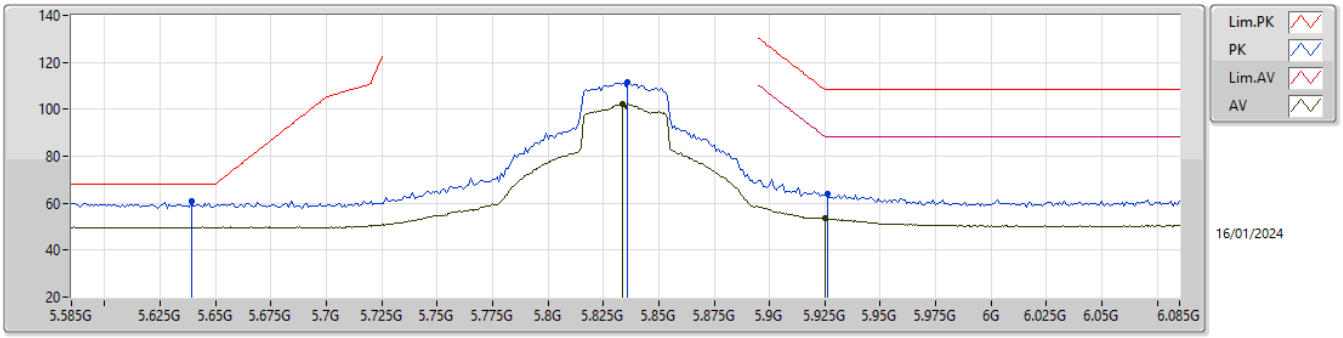


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.613G	60.46	68.20	-7.74	54.10	3	Vertical	7	1.01	-	34.40	6.91	34.95
PK	5.819G	122.41	Inf	-Inf	116.22	3	Vertical	7	1.01	-	34.30	6.94	35.05
AV	5.834G	112.69	Inf	-Inf	106.50	3	Vertical	7	1.01	-	34.30	6.95	35.06
PK	5.924G	75.60	108.93	-33.33	69.19	3	Vertical	7	1.01	-	34.55	6.96	35.10
AV	5.925G	61.54	88.20	-26.66	55.12	3	Vertical	7	1.01	-	34.55	6.97	35.10

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

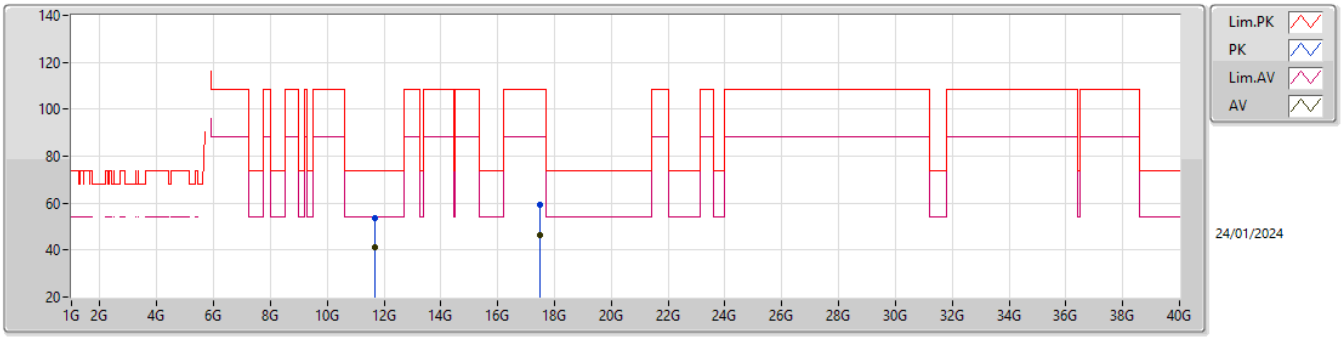


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.639G	60.97	68.20	-7.23	54.62	3	Horizontal	99	3.00	-	34.40	6.92	34.97
PK	5.836G	111.62	Inf	-Inf	105.43	3	Horizontal	99	3.00	-	34.30	6.95	35.06
AV	5.8335G	102.31	Inf	-Inf	96.12	3	Horizontal	99	3.00	-	34.30	6.95	35.06
PK	5.926G	64.12	108.20	-44.08	57.70	3	Horizontal	99	3.00	-	34.55	6.97	35.10
AV	5.925G	53.37	88.20	-34.83	46.95	3	Horizontal	99	3.00	-	34.55	6.97	35.10

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

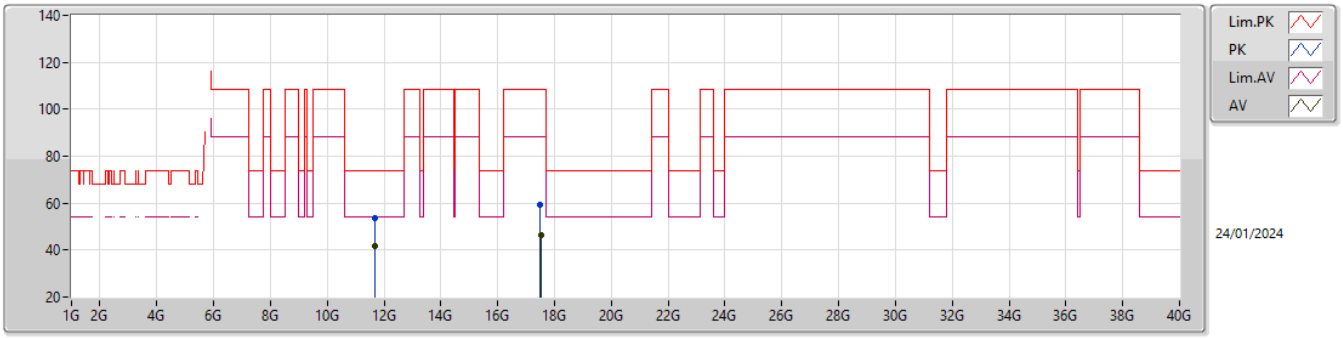


EUT Z_2TX
Setting 30
05-E-G-4

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	11.68302G	53.76	74.00	-20.24	47.63	3	Vertical	304	2.93	-	38.47	10.93	43.27
AV	11.6805G	41.35	54.00	-12.65	35.23	3	Vertical	304	2.93	-	38.46	10.93	43.27
PK	17.50704G	59.55	108.20	-48.65	49.31	3	Vertical	130	2.57	-	39.07	13.13	41.96
AV	17.50964G	46.61	88.20	-41.59	36.33	3	Vertical	130	2.57	-	39.10	13.13	41.95

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5835MHz_TX

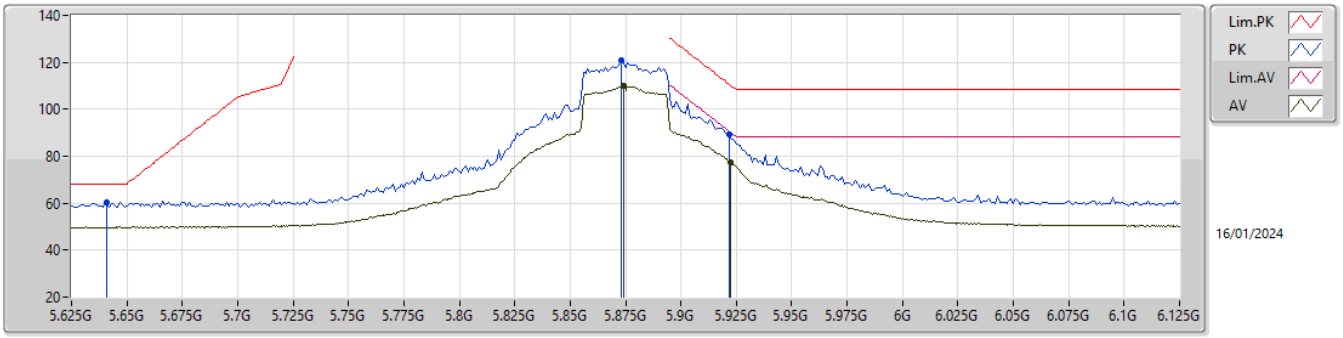


EUT Z_2TX
Setting 30
05-E-G-4

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	11.67588G	53.84	74.00	-20.16	47.73	3	Horizontal	55	1.84	-	38.45	10.93	43.27
AV	11.6823G	41.59	54.00	-12.41	35.47	3	Horizontal	55	1.84	-	38.46	10.93	43.27
PK	17.50722G	59.34	108.20	-48.86	49.10	3	Horizontal	210	2.24	-	39.07	13.13	41.96
AV	17.51046G	46.59	88.20	-41.61	36.31	3	Horizontal	210	2.24	-	39.10	13.13	41.95

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

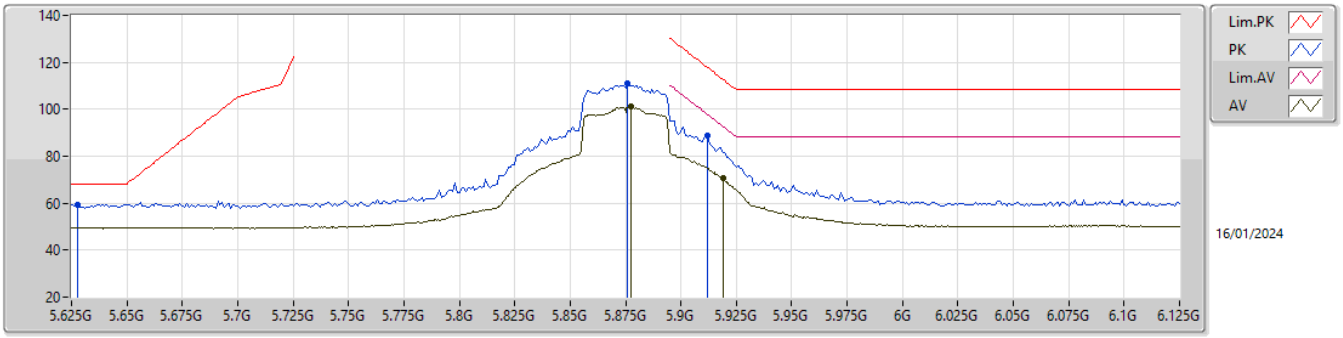


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.641G	60.59	68.20	-7.61	54.24	3	Vertical	159	1.02	-	34.40	6.92	34.97
PK	5.873G	120.99	Inf	-Inf	114.73	3	Vertical	159	1.02	-	34.39	6.95	35.08
AV	5.874G	110.01	Inf	-Inf	103.74	3	Vertical	159	1.02	-	34.40	6.95	35.08
PK	5.922G	89.21	110.40	-21.19	82.81	3	Vertical	159	1.02	-	34.54	6.96	35.10
AV	5.9225G	77.53	90.03	-12.50	71.12	3	Vertical	159	1.02	-	34.55	6.96	35.10

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

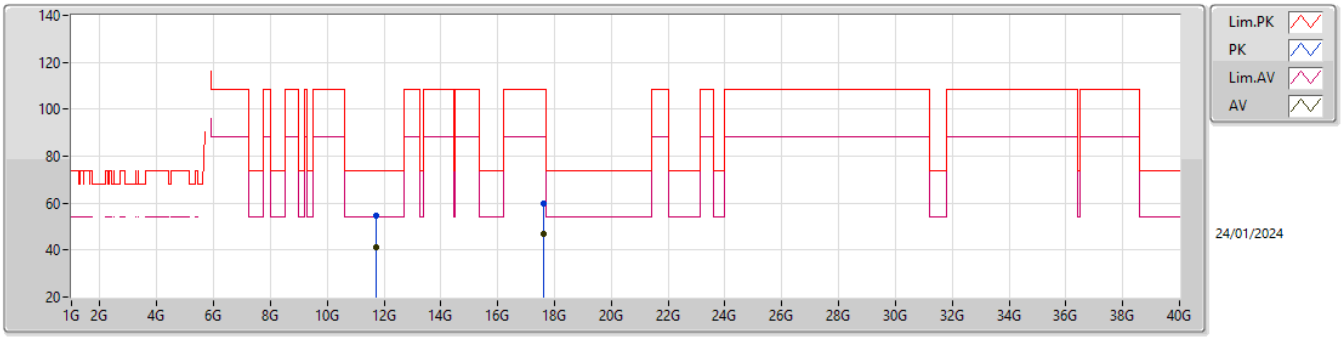


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.628G	59.38	68.20	-8.82	53.03	3	Horizontal	352	1.09	-	34.40	6.91	34.96
PK	5.876G	111.24	Inf	-Inf	104.96	3	Horizontal	352	1.09	-	34.40	6.96	35.08
AV	5.8775G	101.07	Inf	-Inf	94.78	3	Horizontal	352	1.09	-	34.41	6.96	35.08
PK	5.912G	88.66	117.73	-29.07	82.28	3	Horizontal	352	1.09	-	34.52	6.96	35.10
AV	5.919G	70.45	92.60	-22.15	64.05	3	Horizontal	352	1.09	-	34.54	6.96	35.10

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

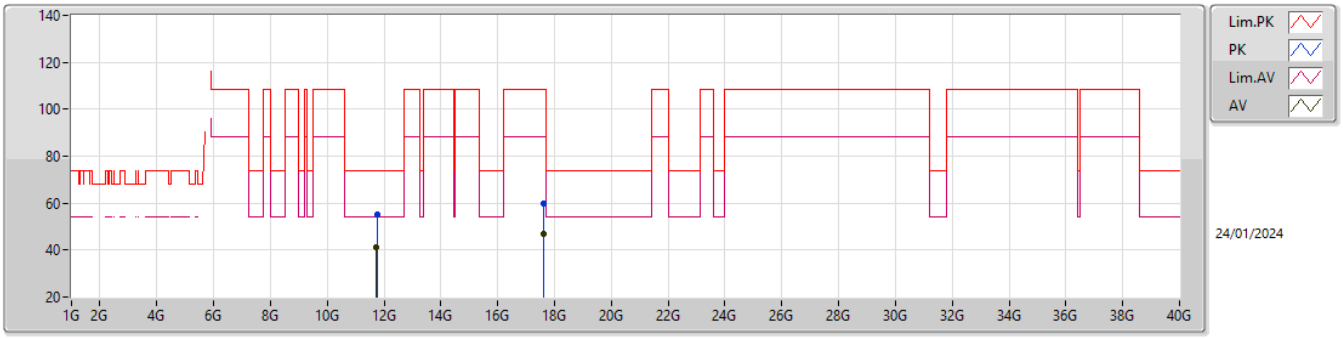


EUT Z_2TX
Setting 30
05-E-G-4

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	11.7401G	54.43	74.00	-19.57	48.23	3	Vertical	56	1.59	-	38.50	10.96	43.26
AV	11.74052G	41.31	54.00	-12.69	35.11	3	Vertical	56	1.59	-	38.50	10.96	43.26
PK	17.61042G	60.00	108.20	-48.20	49.10	3	Vertical	161	2.25	-	39.52	13.18	41.80
AV	17.61934G	46.89	88.20	-41.31	35.95	3	Vertical	161	2.25	-	39.54	13.18	41.78

5.725-5.895GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

5875MHz_TX

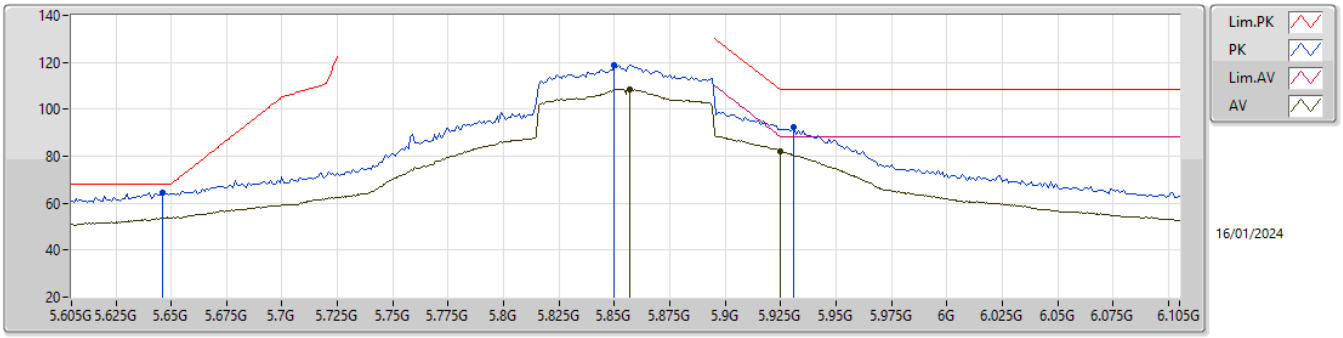


EUT Z_2TX
Setting 30
05-E-G-4

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	11.747G	54.92	74.00	-19.08	48.72	3	Horizontal	259	1.63	-	38.50	10.96	43.26
AV	11.73608G	41.41	54.00	-12.59	35.22	3	Horizontal	259	1.63	-	38.50	10.95	43.26
PK	17.61864G	59.90	108.20	-48.30	48.96	3	Horizontal	337	2.70	-	39.54	13.18	41.78
AV	17.6182G	47.00	88.20	-41.20	36.07	3	Horizontal	337	2.70	-	39.54	13.18	41.79

5.725-5.895GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

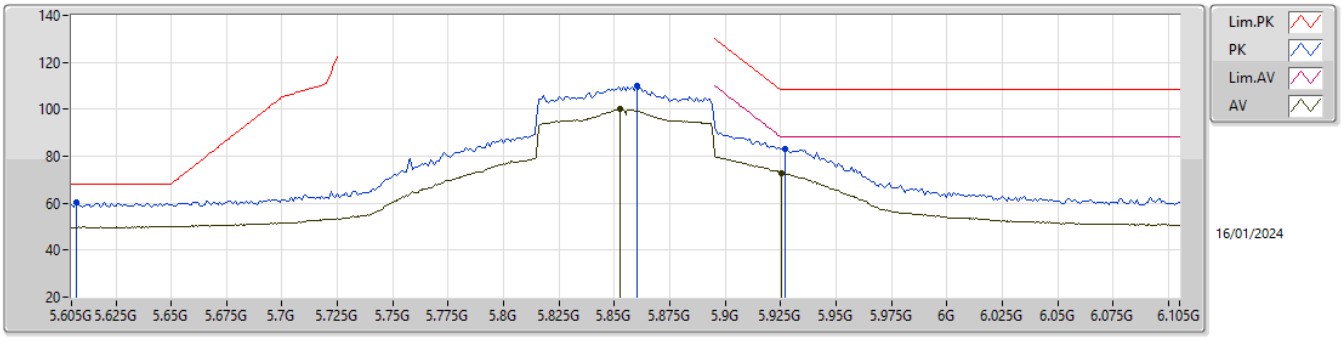


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.646G	64.72	68.20	-3.48	58.37	3	Vertical	88	1.01	-	34.40	6.92	34.97
PK	5.85G	118.75	Inf	-Inf	112.57	3	Vertical	88	1.01	-	34.30	6.95	35.07
AV	5.857G	108.69	Inf	-Inf	102.48	3	Vertical	88	1.01	-	34.33	6.95	35.07
PK	5.931G	92.47	108.20	-15.73	86.05	3	Vertical	88	1.01	-	34.56	6.97	35.11
AV	5.925G	82.22	88.20	-5.98	75.80	3	Vertical	88	1.01	-	34.55	6.97	35.10

5.725-5.895GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

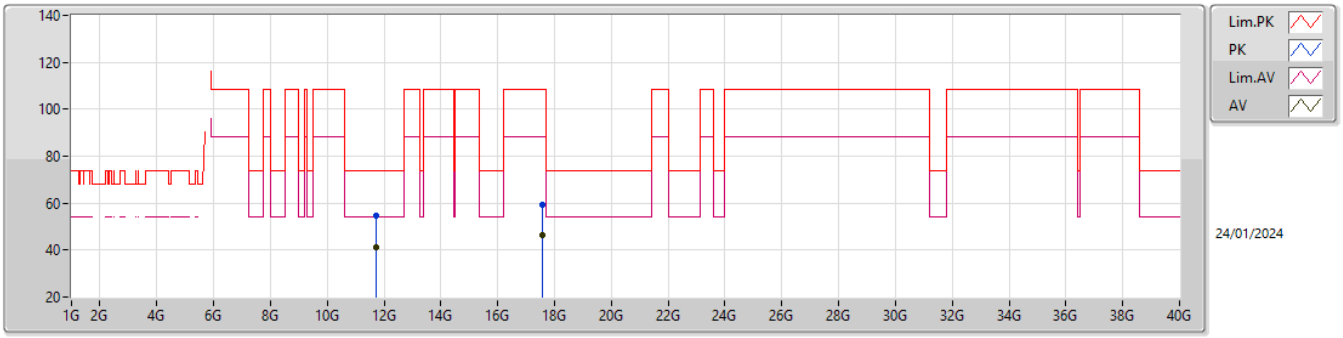


EUT Z_2TX
Setting 30
03-R-M-2-10

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	5.607G	60.49	68.20	-7.71	54.13	3	Horizontal	179	2.87	-	34.40	6.91	34.95
PK	5.86G	110.10	Inf	-Inf	103.88	3	Horizontal	179	2.87	-	34.34	6.95	35.07
AV	5.8525G	99.98	Inf	-Inf	93.79	3	Horizontal	179	2.87	-	34.31	6.95	35.07
PK	5.927G	83.20	108.20	-25.00	76.78	3	Horizontal	179	2.87	-	34.55	6.97	35.10
AV	5.9255G	72.87	88.20	-15.33	66.45	3	Horizontal	179	2.87	-	34.55	6.97	35.10

5.725-5.895GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

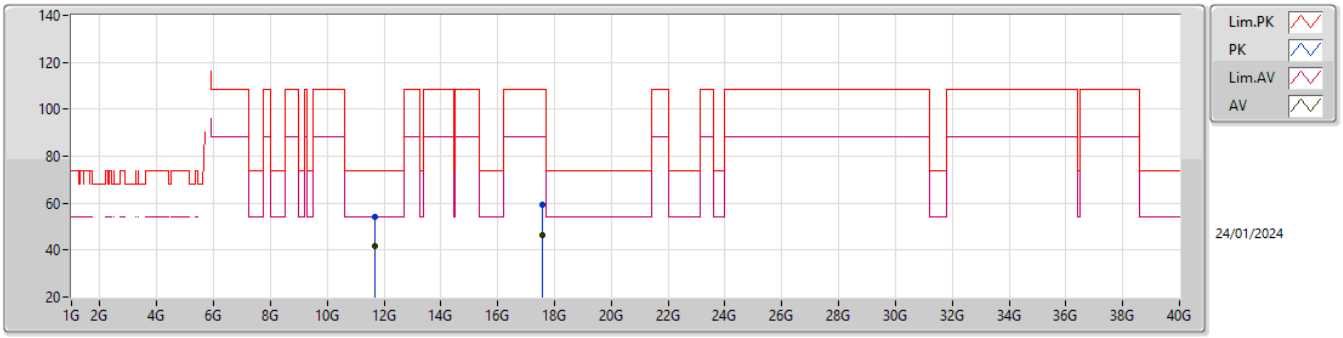


EUT Z_2TX
Setting 30
05-E-G-4

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	11.70994G	54.85	74.00	-19.15	48.68	3	Vertical	240	1.16	-	38.50	10.94	43.27
AV	11.7091G	41.46	54.00	-12.54	35.29	3	Vertical	240	1.16	-	38.50	10.94	43.27
PK	17.57724G	59.11	108.20	-49.09	48.30	3	Vertical	271	1.59	-	39.50	13.16	41.85
AV	17.57418G	46.53	88.20	-41.67	35.72	3	Vertical	271	1.59	-	39.50	13.16	41.85

5.725-5.895GHz_802.11ax HEW80-BF_Nss1,(MCS0)_2TX

5855MHz_TX

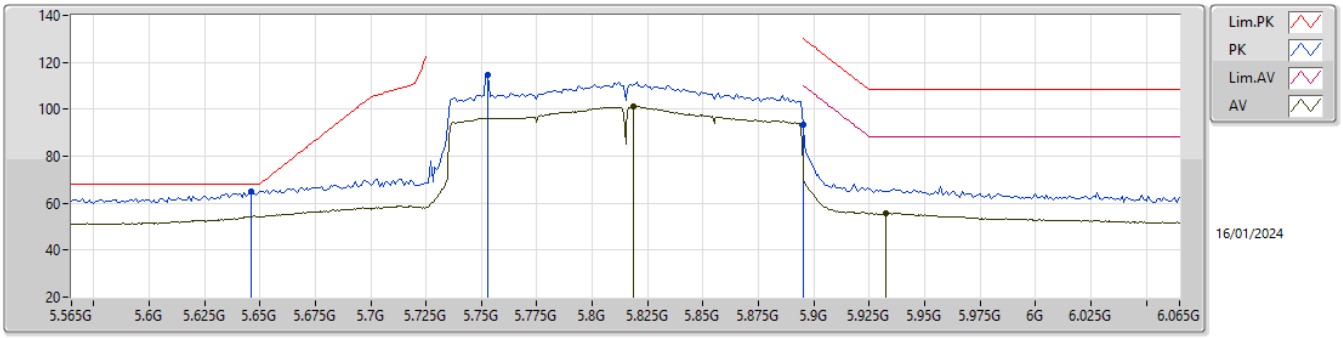


EUT Z_2TX
Setting 30
05-E-G-4

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	11.6983G	53.94	74.00	-20.06	47.77	3	Horizontal	265	1.28	-	38.50	10.94	43.27
AV	11.69962G	41.59	54.00	-12.41	35.42	3	Horizontal	265	1.28	-	38.50	10.94	43.27
PK	17.58G	59.27	108.20	-48.93	48.46	3	Horizontal	16	2.78	-	39.50	13.16	41.85
AV	17.57916G	46.59	88.20	-41.61	35.78	3	Horizontal	16	2.78	-	39.50	13.16	41.85

5.725-5.895GHz_802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

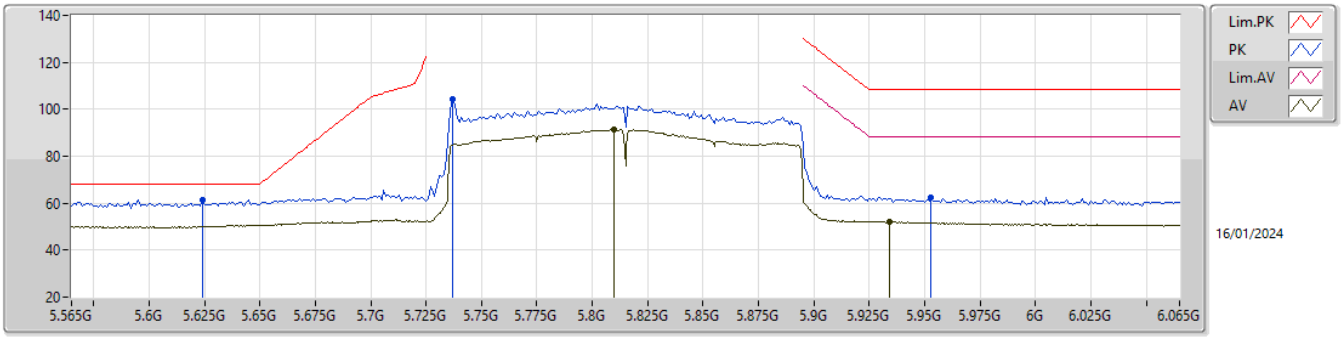


EUT Z_2TX
Setting 24
03-R-M-2-10

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	5.646G	65.17	68.20	-3.03	58.82	3	Vertical	175	1.04	-	34.40	6.92	34.97
PK	5.753G	114.90	Inf	-Inf	108.78	3	Vertical	175	1.04	-	34.21	6.93	35.02
AV	5.8185G	101.22	Inf	-Inf	95.03	3	Vertical	175	1.04	-	34.30	6.94	35.05
PK	5.895G	93.23	130.20	-36.97	86.88	3	Vertical	175	1.04	-	34.48	6.96	35.09
AV	5.9325G	55.80	88.20	-32.40	49.38	3	Vertical	175	1.04	-	34.56	6.97	35.11

5.725-5.895GHz_802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

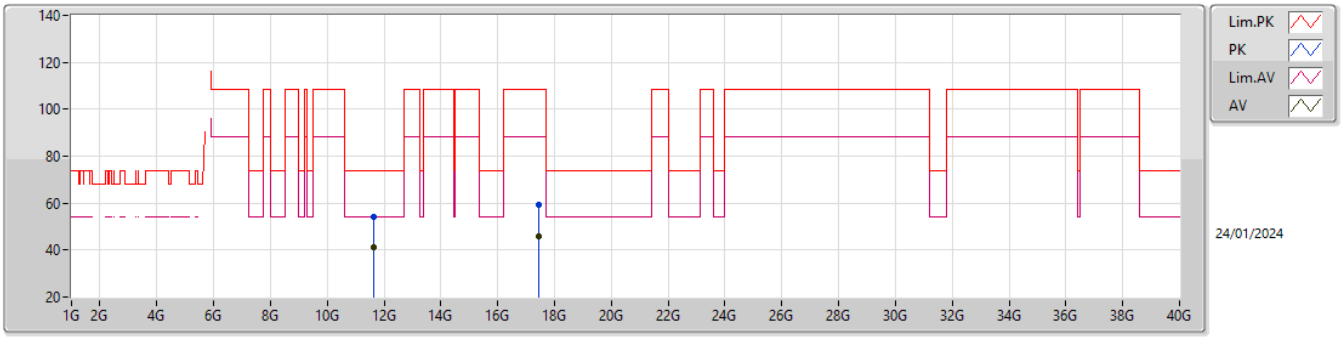


EUT Z_2TX
Setting 24
03-R-M-2-10

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	5.624G	61.52	68.20	-6.68	55.17	3	Horizontal	107	2.45	-	34.40	6.91	34.96
PK	5.737G	104.47	Inf	-Inf	98.35	3	Horizontal	107	2.45	-	34.20	6.93	35.01
AV	5.81G	91.30	Inf	-Inf	85.11	3	Horizontal	107	2.45	-	34.30	6.94	35.05
PK	5.953G	62.44	108.20	-45.76	55.98	3	Horizontal	107	2.45	-	34.61	6.97	35.12
AV	5.934G	52.09	88.20	-36.11	45.66	3	Horizontal	107	2.45	-	34.57	6.97	35.11

5.725-5.895GHz_802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX

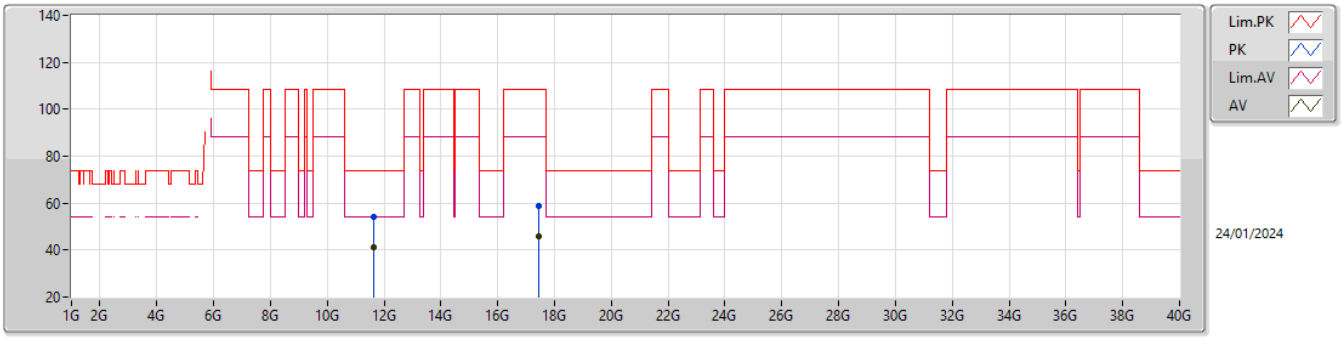


EUT Z_2TX
Setting 24
05-E-G-4

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	11.63248G	54.27	74.00	-19.73	48.13	3	Vertical	235	2.47	-	38.51	10.91	43.28
AV	11.62664G	41.01	54.00	-12.99	34.84	3	Vertical	235	2.47	-	38.54	10.91	43.28
PK	17.44896G	59.26	108.20	-48.94	49.24	3	Vertical	5	1.21	-	38.90	13.10	41.98
AV	17.44978G	45.91	88.20	-42.29	35.89	3	Vertical	5	1.21	-	38.90	13.10	41.98

5.725-5.895GHz_802.11ax HEW160-BF_Nss1,(MCS0)_2TX

5815MHz_TX



EUT Z_2TX
Setting 24
05-E-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	11.63092G	54.10	74.00	-19.90	47.96	3	Horizontal	81	2.96	-	38.51	10.91	43.28
AV	11.62696G	41.07	54.00	-12.93	34.90	3	Horizontal	81	2.96	-	38.54	10.91	43.28
PK	17.44898G	58.88	108.20	-49.32	48.86	3	Horizontal	47	2.18	-	38.90	13.10	41.98
AV	17.44954G	46.02	88.20	-42.18	36.00	3	Horizontal	47	2.18	-	38.90	13.10	41.98