Testing Laboratory
3787

RADIO TEST REPORT

FCC ID	:	2AYRA-08451
Equipment	:	Linksys Velop Pro 7 10G
Brand Name	:	Linksys
Model Name	:	LN1400, LN14, LN14EC, LN14WH, LN14MS, SPNLN14, MBE7100, MBE71, SPNMBE71
Applicant	:	Linksys USA, Inc. 121 Theory, Irvine, CA. 92617, USA
Standard	:	47 CFR FCC Part 15.247

The product was received on Dec. 01, 2022, and testing was started from Dec. 14, 2022 and completed on Feb. 06, 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
FR291415-02AA	01	Initial issue of report	Jun. 04, 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	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-
Note: Reference to Sporton Project No.: 291415				

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: Lavender Zeng

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40 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	6GHz	Bluetooth Zigbee					
1	1	1	-	-	Galtronics	02102140-07691-1	PCB Antenna	I-PEX	Note1
2	2	2	-	-	Galtronics	02102140-07691-2	PCB Antenna	I-PEX	
3	-	-	2	-	Galtronics	02102475-07691-2	PCB Antenna	I-PEX	
4	-	-	1	-	Galtronics	02102475-07691-1	PCB Antenna	I-PEX	
5	-	-	-	1	Galtronics	02102073-07691-2	PCB Antenna	I-PEX	

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 6GHz UNII 5	WLAN 6GHz UNII 6	WLAN 6GHz UNII 7	WLAN 6GHz UNII 8	Bluetooth Zigbee
1	2.626	3.600	3.535	3.323	3.333	-	-	-	-	-
2	2.626	3.600	3.535	3.323	3.333	-	-	-	-	-
3	-	-	-	-	-	3.076	3.246	3.429	3.429	-
4	-	-	-	-	-	3.076	3.246	3.429	3.429	-
5	-	-	-	-	-	-	-	-	-	1.095

Note2: The above information was declared by manufacturer.

<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/be (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
<For 6GHz function>
For IEEE 802.11ax/be (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/Zigbee function> (1TX/1RX):
Only Port 1 can be used as transmitting/receiving antenna.
Port 1 could transmit/receive simultaneously.

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	$Directional Gain = 10 \cdot \log\left[\frac{\sum_{i=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{i,k}\right\}^2}{N_{ANT}}\right]$
BF	$Directional Gain = 10 \cdot \log\left[\frac{\sum_{i=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{i,k}\right\}^2}{N_{ANT}}\right]$	$Directional Gain = 10 \cdot \log\left[\frac{\sum_{i=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{i,k}\right\}^2}{N_{ANT}}\right]$

Ex.

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

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

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

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

Where ;

2.4G G1= 2.626 dBi ;2.4G G2= 2.626 dBi ;DG= 5.636dBi

5G UNII-1 G1= 3.6 dBi ;5G UNII-1 G2= 3.6 dBi ;DG= 6.610dBi

5G UNII-2A G1= 3.535 dBi ;5G UNII-2A G2= 3.535 dBi ;DG= 6.545dBi

5G UNII-2C G1= 3.323 dBi ;5G UNII-2C G2= 3.323 dBi ;DG= 6.333dBi

5G UNII-3 G1= 3.33 dBi ;5G UNII-3 G2= 3.33 dBi ;DG= 6.343dBi

6G UNII-5 G1= 3.076 dBi ;6G UNII-5 G2= 3.076 dBi ;DG= 6.086dBi

6G UNII-6 G1= 3.246 dBi ;6G UNII-6 G2= 3.246 dBi ;DG= 6.256dBi

6G UNII-7 G1= 3.429 dBi ;6G UNII-7 G2= 3.429 dBi ;DG= 6.439dBi

6G UNII-8 G1= 3.429 dBi ;6G UNII-7 G2= 3.429 dBi ;DG= 6.439dBi

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)
802.11b	0.907	0.42	4.625m
802.11g	0.936	0.29	1.978m
802.11ax HEW20-BF	0.974	0.11	3.48m
802.11ax HEW40-BF	0.983	0.07	n/a (DC>=0.98)

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, n/ac/ax/be in 5GHz UNII 1~UNII 3 and ax/be in 6GHz UNII 5~UNII 8.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	**<Non-beamforming mode>** QSPR V5.0-00202 **<Beamforming mode>**Tera Term V4.105(SVN#8433)			

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.
The differences in models are listed in the table below:

Model Name	Description
LN1400	For retail store
LN14	For online store
LN14EC	For e-commerce
LN14WH	For Warehouse
LN14MS	For Supermarket
SPNLN14	For Service provider A
MBE7100	Sell on Linksys.com (multipack)
MBE71	Sell on Linksys.com (multipack)
SPNMBE71	For Service provider B

Note 1: From the above models, model: LN1400 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.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15.247
- ANSI C63.10-2013

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	23.1-24.1 / 52-63	Dec. 14, 2022~ Mar. 06, 2023
Radiated <Co-location>	03CH06-CB	Roy Mai	21.3~23.2 / 61~64	Feb. 23, 2023~ Mar. 13, 2023
Radiated <Below 1GHz>	03CH04-CB	Paul Hu	21-22 / 56-59	Jan. 31, 2024~ Feb. 06, 2024
Radiated <Above 1GHz>	03CH03-CB	Roy Mai	21.7~22.7 / 61~63	Feb. 23, 2023~ Mar. 13, 2023
	03CH06-CB		21.3~23.2 / 61~64	
AC Conduction	CO01-CB	Elvin Yeh	23~24 / 56~57	Jan. 24, 2024

Note: The tested sample of Radiated below 1GHz and AC Conduction test item was received on Dec. 21, 2023.

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 Date: Before Jun. 01, 2023

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

Test Date: After May 31, 2023

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%

2 Test Configuration of EUT

2.1 Test Channel Mode

<Non-beamforming mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19.5
2417MHz	19.5
2437MHz	22
2462MHz	20
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	17.5
2417MHz	19
2437MHz	22
2457MHz	19
2462MHz	18.5

<Beamforming mode>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	19
2417MHz	21
2437MHz	24
2457MHz	21
2462MHz	19
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	18
2437MHz	20
2452MHz	18

Note:
- Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/ VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- 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 (WiFi+Bluetooth) + Adapter 1
2	EUT (WiFi+Bluetooth) + Adapter 2
3	EUT (WiFi+Bluetooth) + Adapter 3
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT (WiFi+Zigbee) + Adapter 3
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
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
After evaluating, the worst case was found at Z axis from Radiated Emission test Above 1GHz., So 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
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~7 will follow this same test mode.	
4	EUT in Z axis + WLAN 5GHz + Adapter 3
5	EUT in Z axis + WLAN 6GHz + Adapter 3
6	EUT in Z axis + Bluetooth + Adapter 3
7	EUT in Z axis + Zigbee + Adapter 3
For operating mode 3 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. Thus the measurement will follow this same test configuration.	
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
After evaluating, the worst case was found at Z axis from Radiated Emission test Above 1GHz., So the measurement will follow this same test configuration.	
1	EUT in Z axis_WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

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 + WLAN 6GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Zigbee
Refer to Sporton Test Report No.: FA291415-02 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 10 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 (Removable plug)	Ktec	KSA-36W-120300D5	Input: 100-240V ~ 50/60Hz, 1.0A Output: 12.0V, 3.0A, 36.0W
Adapter 2	Ktec	KSA-36W-120300HU	Input: 100-240V ~ 50/60Hz, 1.0A Output: 12V, 3.0A
Adapter 3	MOSO	V30-V3000R120-036T0-US	Input: 100-240V ~ 50/60Hz, 1.0A max. Output: 12.0V, 3.0A
Others			
RJ-45 cable*1, non-shielded, 0.9m			
Plug*1 (Equip with Adapter 1 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	WAN PC	DELL	OPTIPLEX 3010	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	6G NB	DELL	E6430	N/A
F	6G AP	INTEL	AX210NGW	PD9AX210NG
G	Smart phone	Samsung	Galaxy J2	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	Lenovo	L440	N/A

For Radiated (above 1GHz):
<Non-beamforming mode>

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	Lenovo	L440	N/A

<Beamforming mode>

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	Lenovo	L440	N/A
B	Client	Linksys	MX6000	N/A
C	NB	Lenovo	L440	N/A

For RF Conducted:
<Non-beamforming mode>

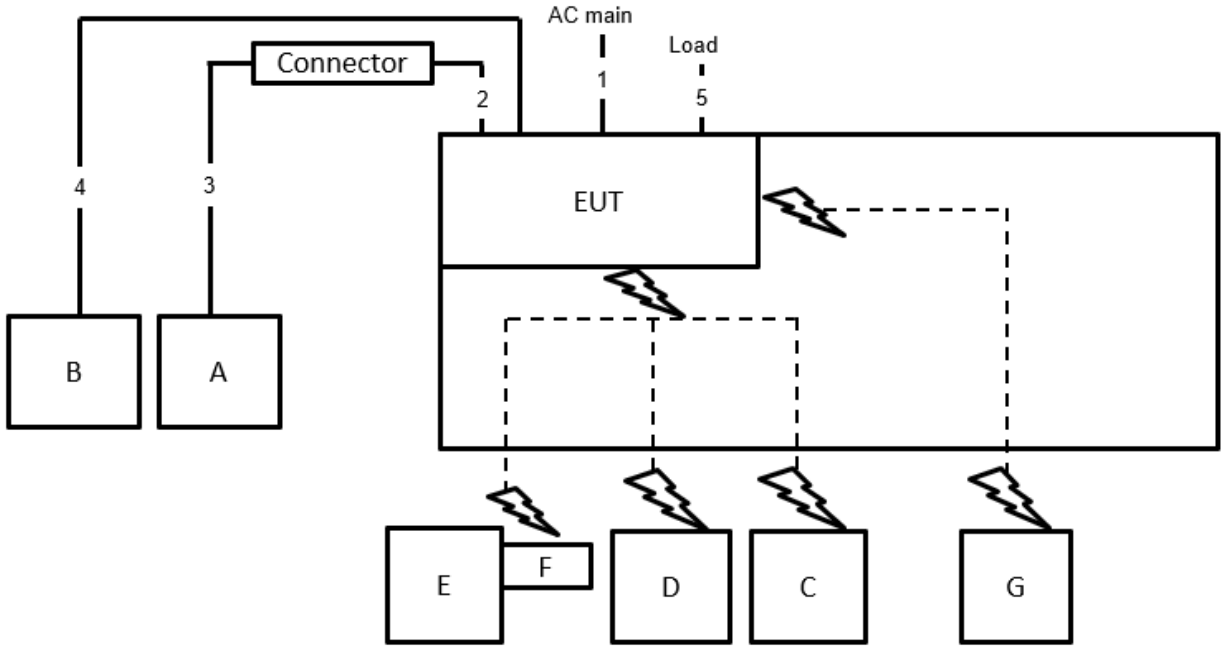
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A

<Beamforming mode>

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	Lenovo	L440	N/A
C	Client	Linksys	MX6000	N/A

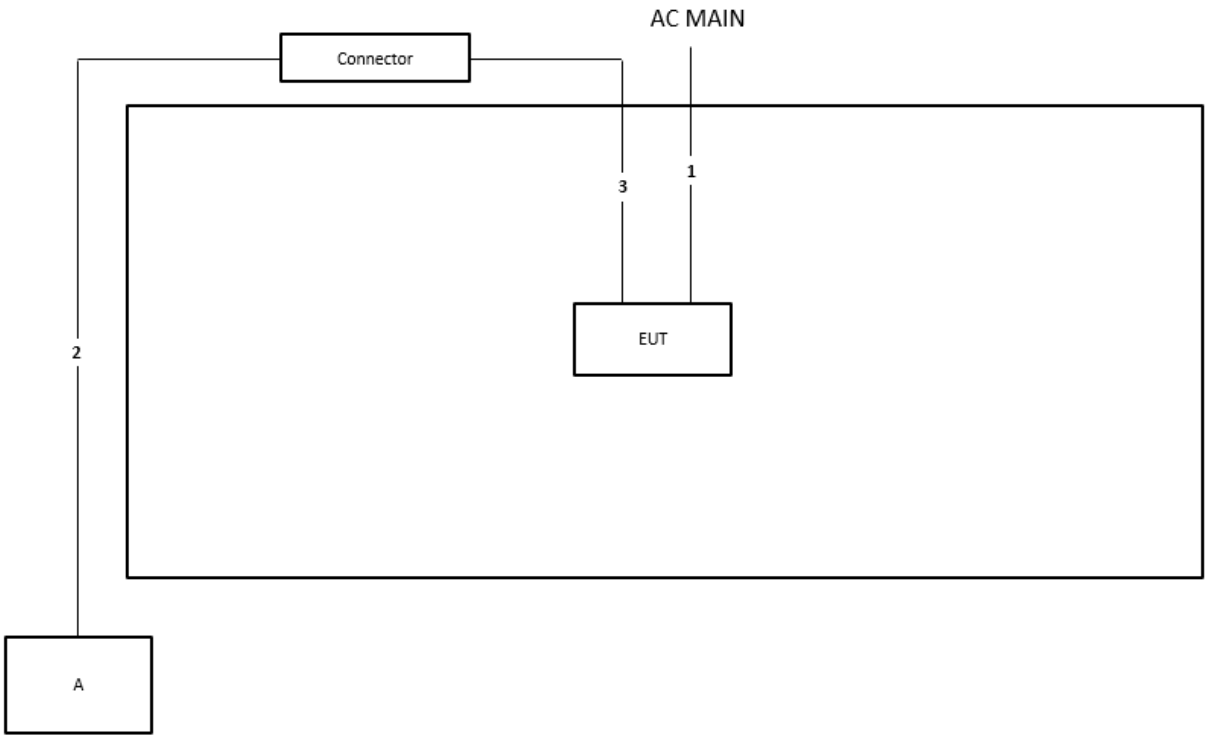
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



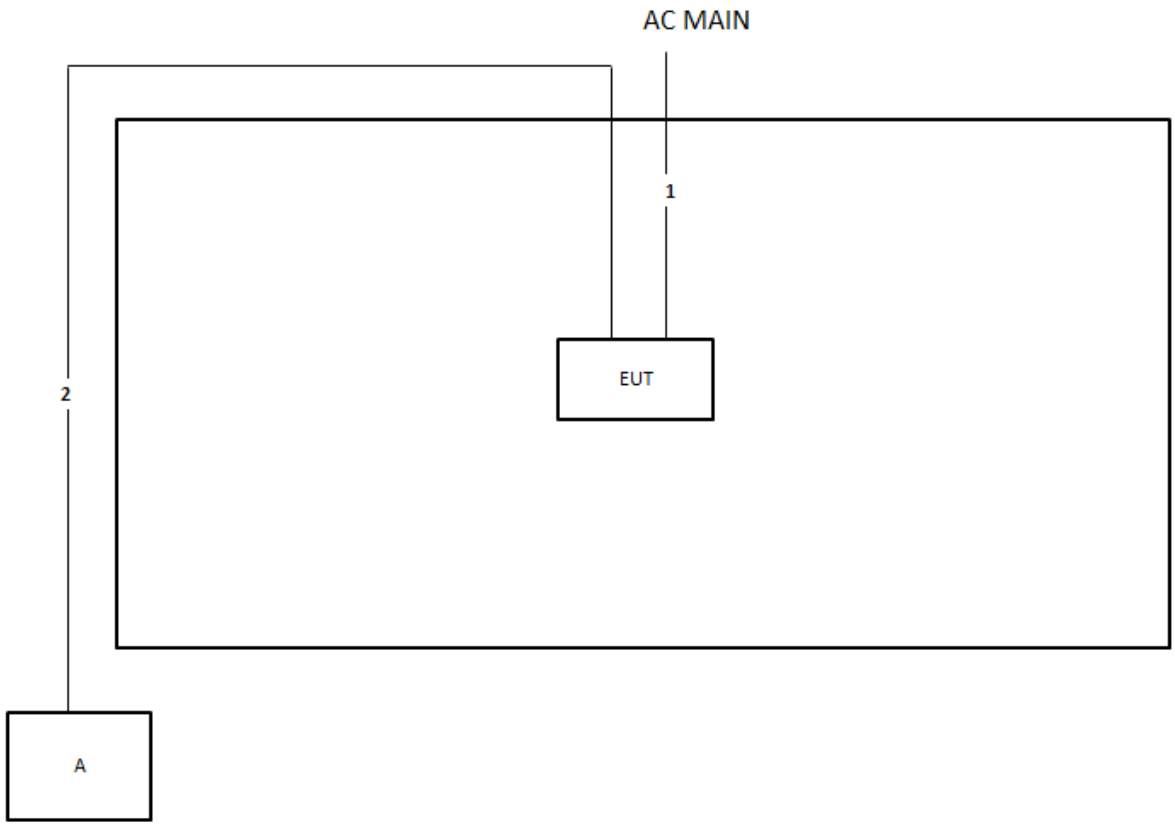
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	0.9m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable*3	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



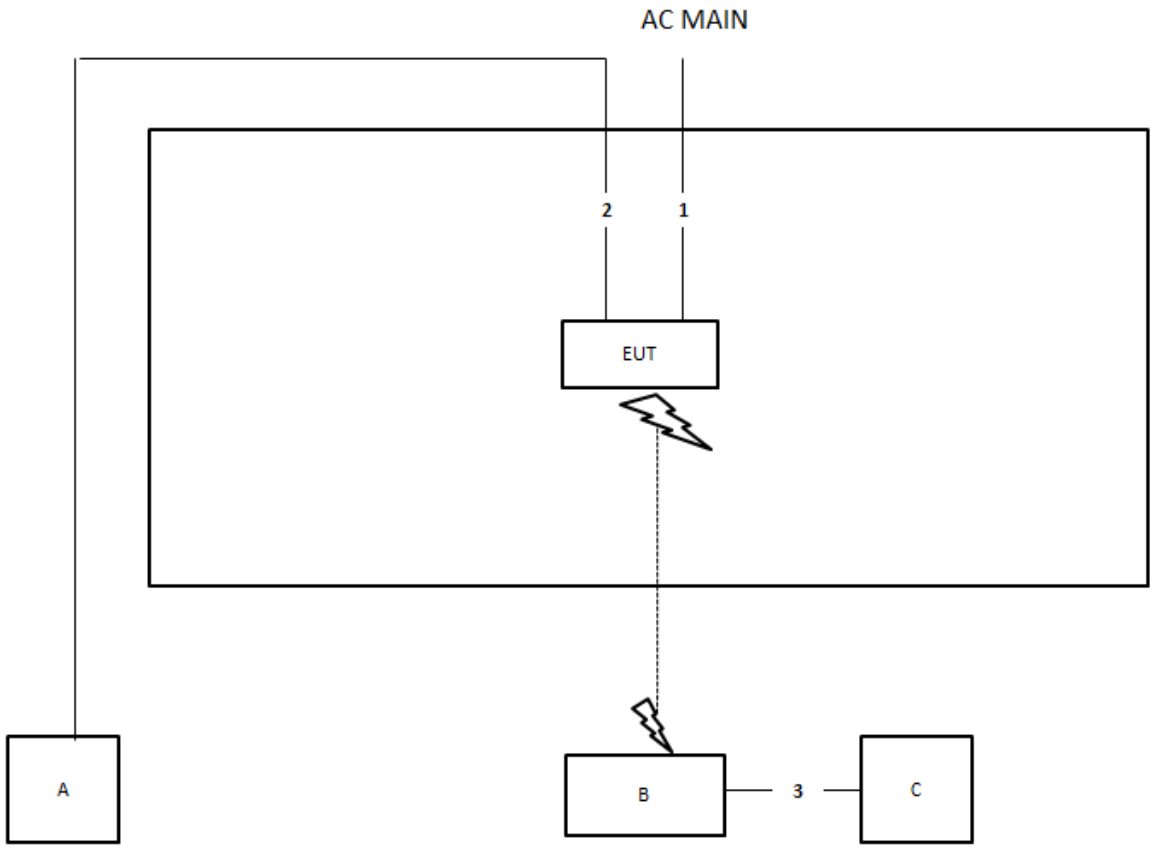
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	0.9m

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



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz
<beamforming mode>



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
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

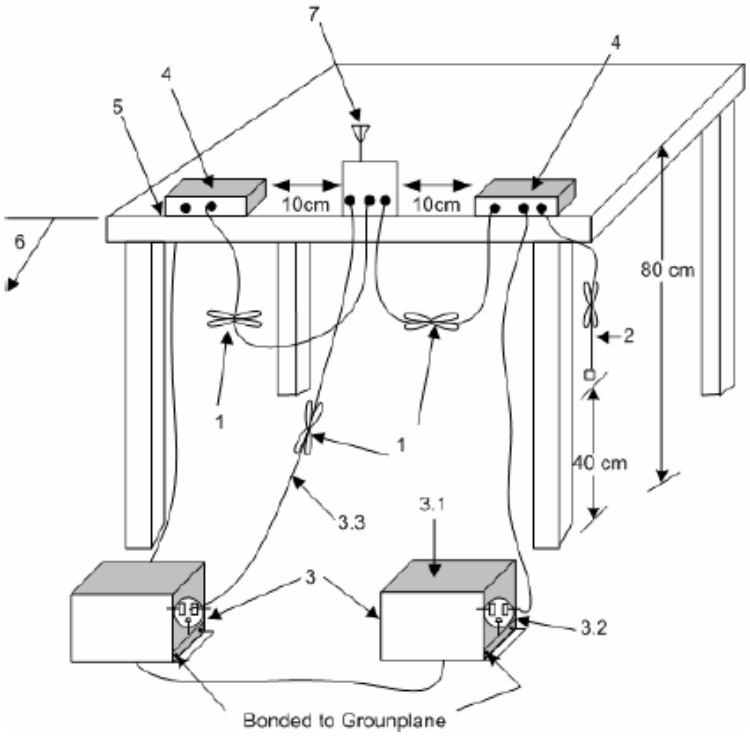
Refer a test equipment and calibration data table in this test report.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

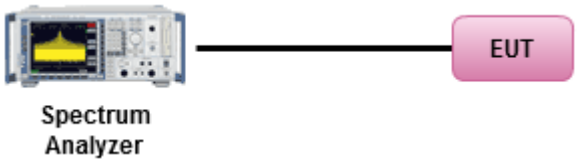
3.2.2 Measuring Instruments

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 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit		
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)	
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm	
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
	▪ Smart antenna system (SAS):	
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.		

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate 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]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

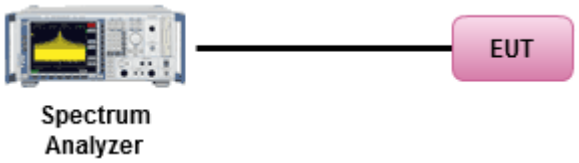
3.4.2 Measuring Instruments

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. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).			
	☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.		
▪ 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.	

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dBc)**
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

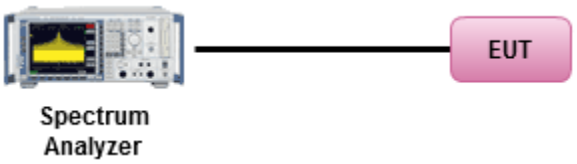
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions 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.

3.6.2 Measuring Instruments

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

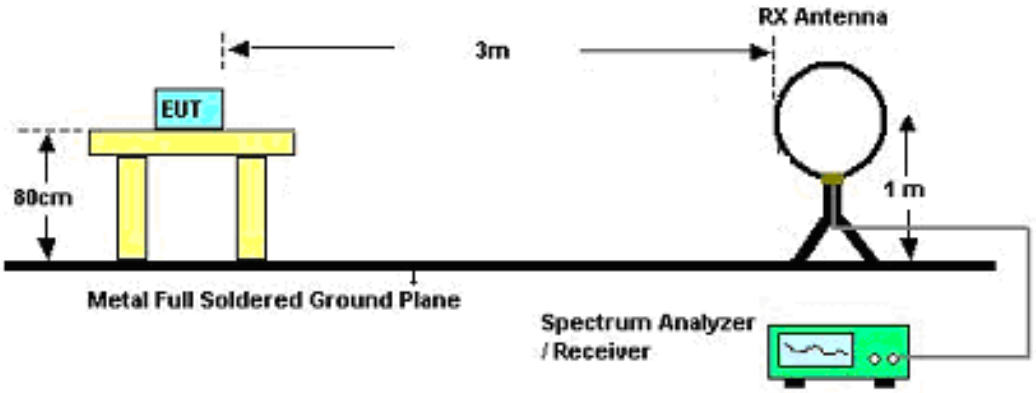
3.6.3 Test Procedures

Test Method			
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.		
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
		☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
		☐	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 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.		
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.		
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).		
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB		
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.		

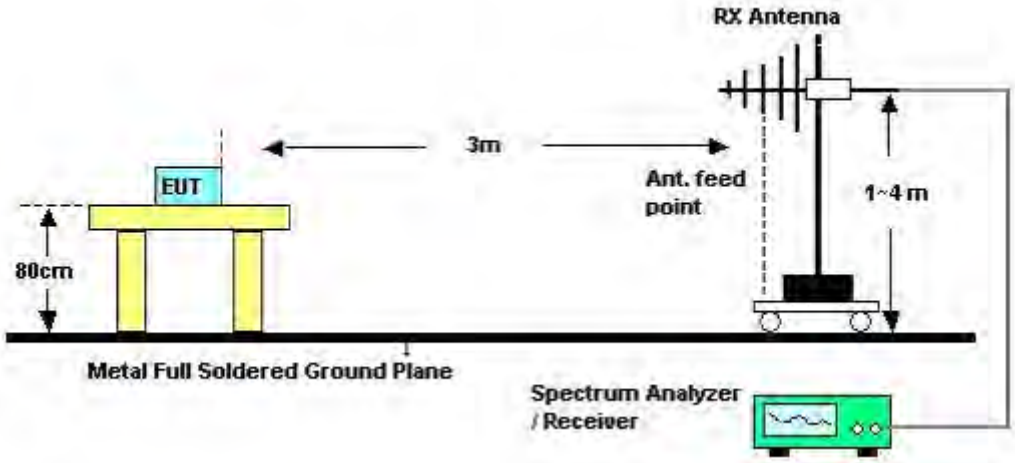
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

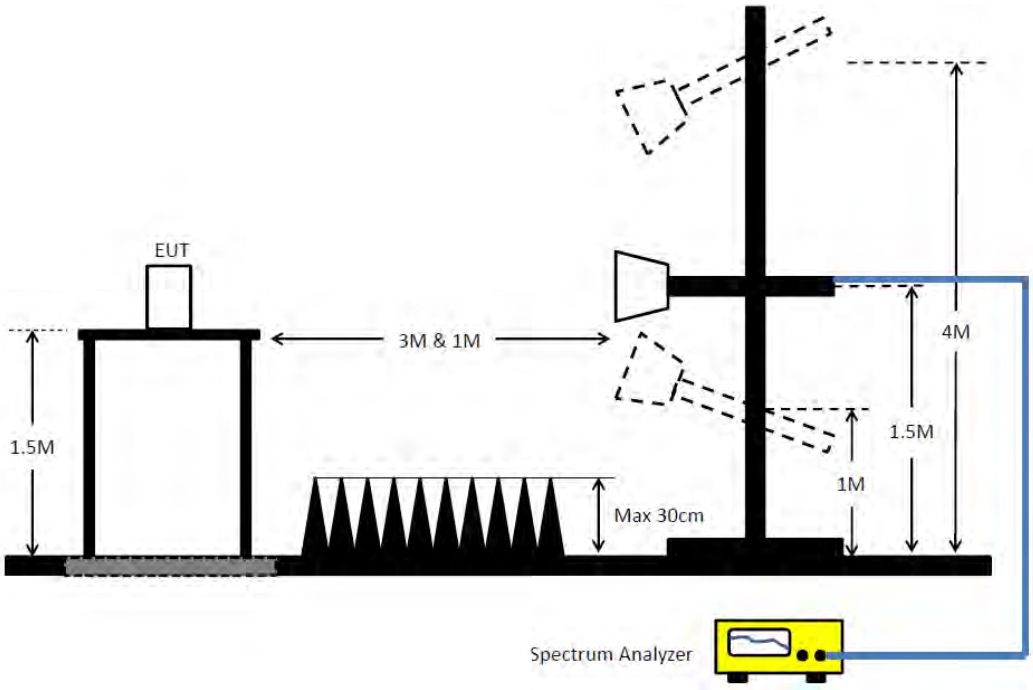
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 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.

3.6.6 Emissions in Restricted Frequency Bands (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.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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 (03CH04-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH04-CB	30 MHz ~ 1 GHz	Aug. 01, 2023	Jul. 31, 2024	Radiation (03CH04-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	22021&AT-N 0607	30MHz ~ 1GHz	Oct. 07, 2023	Oct. 06, 2024	Radiation (03CH04-CB)
Pre-Amplifier	EMCI	EMC330N	980391	20MHz ~ 3GHz	May 23, 2023	May 22, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+67	30MHz – 1GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Sep. 30, 2022	Sep. 29, 2023	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Aug. 09, 2022	Aug. 08, 2023	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91702 52	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	Aug 02, 2022	Aug 01, 2023	Radiation (03CH06-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-68	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05+68	1GHz~18GHz	Dec. 21, 2022	Dec. 20, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	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	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	May 27, 2022	May 26, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2022	Sep. 03, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2022	Sep. 03, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)

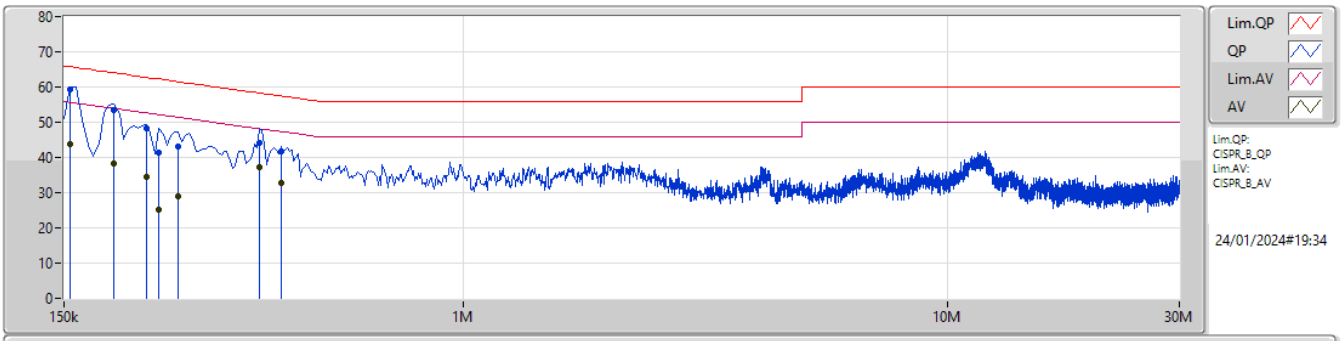
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

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

Summary

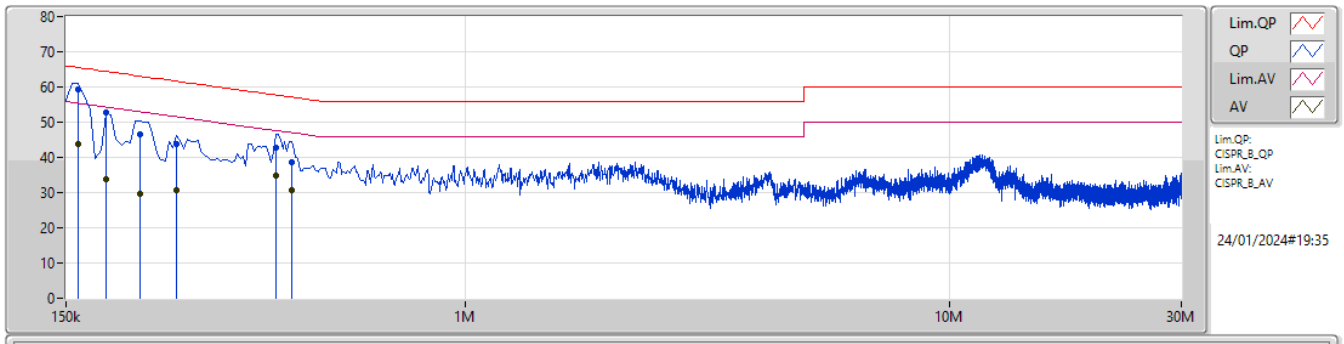
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	159k	59.18	65.52	-6.34	Neutral

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	59.39	65.75	-6.36	9.98	Line	"Worst"	49.41	0.09	0.02	9.87
AV	154.5k	43.77	55.75	-11.98	9.98	Line	-	33.79	0.09	0.02	9.87
QP	190.5k	53.58	64.01	-10.43	9.96	Line	-	43.62	0.08	0.02	9.86
AV	190.5k	38.32	54.01	-15.69	9.96	Line	-	28.36	0.08	0.02	9.86
QP	222k	48.18	62.75	-14.57	9.97	Line	-	38.21	0.08	0.02	9.87
AV	222k	34.62	52.75	-18.13	9.97	Line	-	24.65	0.08	0.02	9.87
QP	235.5k	41.26	62.25	-20.99	9.97	Line	-	31.29	0.08	0.02	9.87
AV	235.5k	25.05	52.25	-27.20	9.97	Line	-	15.08	0.08	0.02	9.87
QP	258k	43.03	61.49	-18.46	9.97	Line	-	33.06	0.08	0.02	9.87
AV	258k	29.00	51.49	-22.49	9.97	Line	-	19.03	0.08	0.02	9.87
QP	379.5k	44.19	58.29	-14.10	10.01	Line	-	34.18	0.09	0.02	9.90
AV	379.5k	37.22	48.29	-11.07	10.01	Line	-	27.21	0.09	0.02	9.90
QP	420k	41.66	57.45	-15.79	10.01	Line	-	31.65	0.09	0.02	9.90
AV	420k	32.81	47.45	-14.64	10.01	Line	-	22.80	0.09	0.02	9.90

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	59.18	65.52	-6.34	9.96	Neutral	"Worst"	49.22	0.07	0.02	9.87
AV	159k	43.82	55.52	-11.70	9.96	Neutral	-	33.86	0.07	0.02	9.87
QP	181.5k	52.78	64.41	-11.63	9.95	Neutral	-	42.83	0.07	0.02	9.86
AV	181.5k	33.87	54.41	-20.54	9.95	Neutral	-	23.92	0.07	0.02	9.86
QP	213k	46.61	63.09	-16.48	9.95	Neutral	-	36.66	0.07	0.02	9.86
AV	213k	29.58	53.09	-23.51	9.95	Neutral	-	19.63	0.07	0.02	9.86
QP	253.5k	43.78	61.64	-17.86	9.96	Neutral	-	33.82	0.07	0.02	9.87
AV	253.5k	30.54	51.64	-21.10	9.96	Neutral	-	20.58	0.07	0.02	9.87
QP	406.5k	42.75	57.72	-14.97	9.99	Neutral	-	32.76	0.07	0.02	9.90
AV	406.5k	34.82	47.72	-12.90	9.99	Neutral	-	24.83	0.07	0.02	9.90
QP	438k	38.63	57.11	-18.48	9.99	Neutral	-	28.64	0.07	0.02	9.90
AV	438k	30.81	47.11	-16.30	9.99	Neutral	-	20.82	0.07	0.02	9.90

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	7.575M	13.275M	13M3G1D	7.125M	12.957M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.779M	16M8D1D	16M	16.354M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

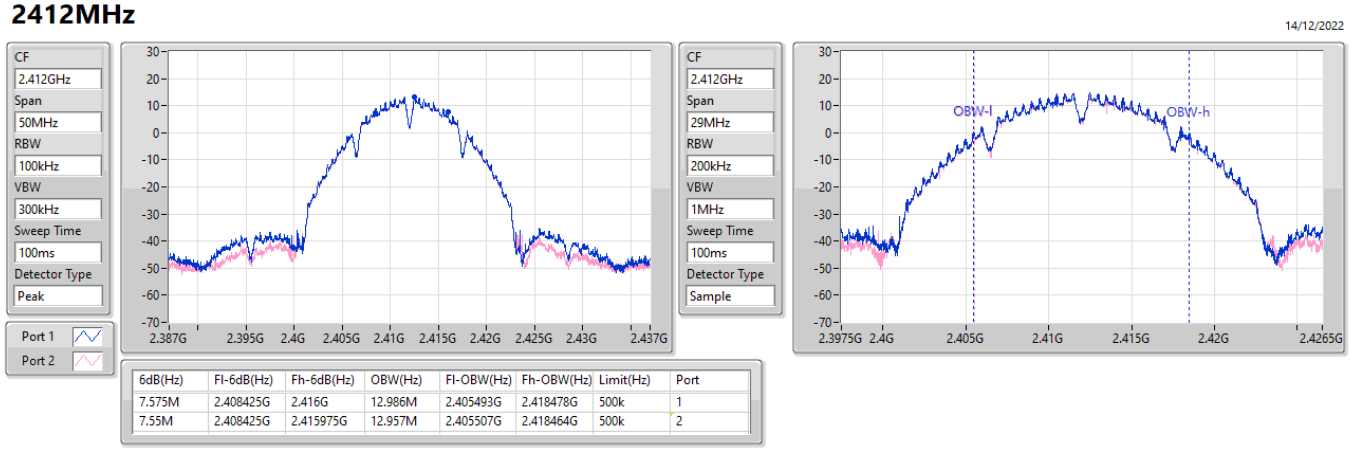
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.575M	12.986M	7.55M	12.957M
2437MHz	Pass	500k	7.575M	13.275M	7.55M	13.174M
2462MHz	Pass	500k	7.525M	13.043M	7.125M	13M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.275M	16.354M	16.275M	16.397M
2437MHz	Pass	500k	16.025M	16.779M	16.05M	16.652M
2462MHz	Pass	500k	16M	16.376M	16.3M	16.418M

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

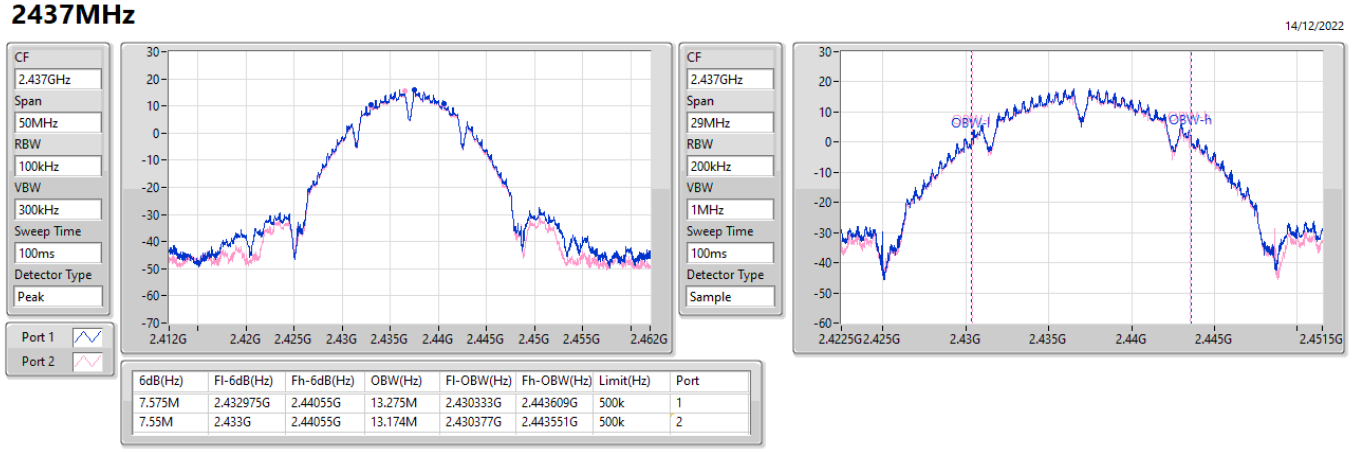
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.575M	2.408425G	2.416G	12.986M	2.405493G	2.418478G	500k	1
7.55M	2.408425G	2.415975G	12.957M	2.405507G	2.418464G	500k	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

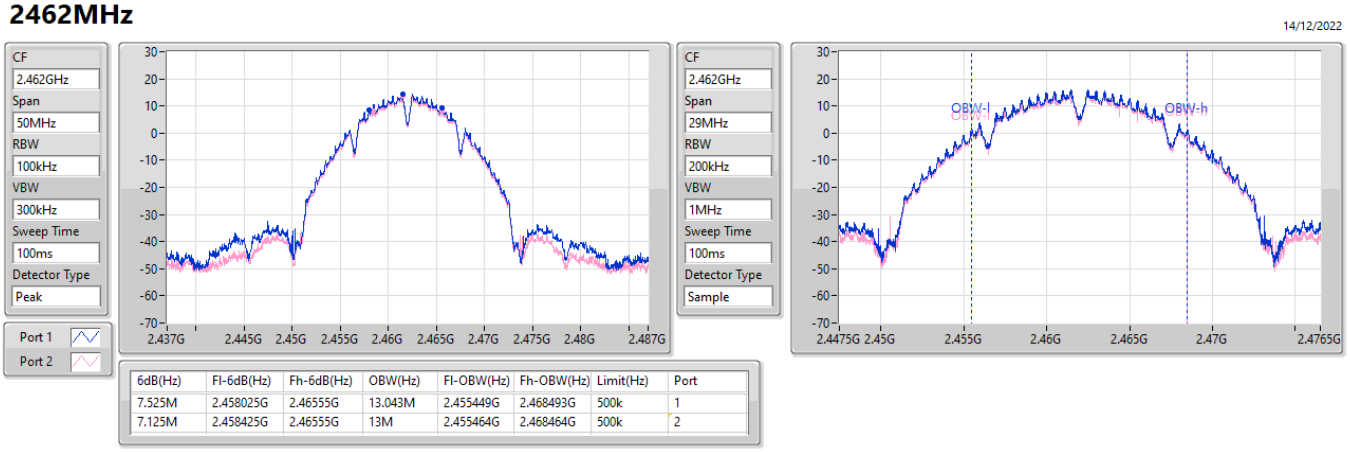
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.575M	2.432975G	2.44055G	13.275M	2.430333G	2.443609G	500k	1
7.55M	2.433G	2.44055G	13.174M	2.430377G	2.443551G	500k	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

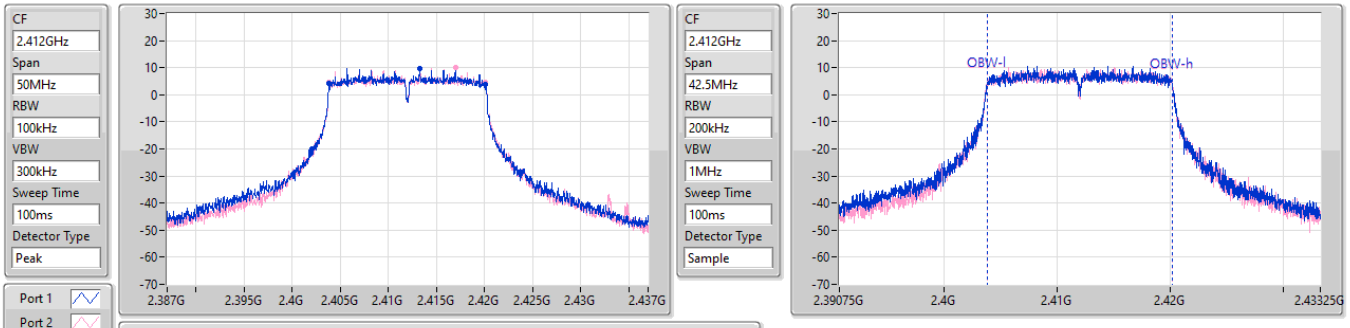
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.525M	2.458025G	2.46555G	13.043M	2.455449G	2.468493G	500k	1
7.125M	2.458425G	2.46555G	13M	2.455464G	2.468464G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

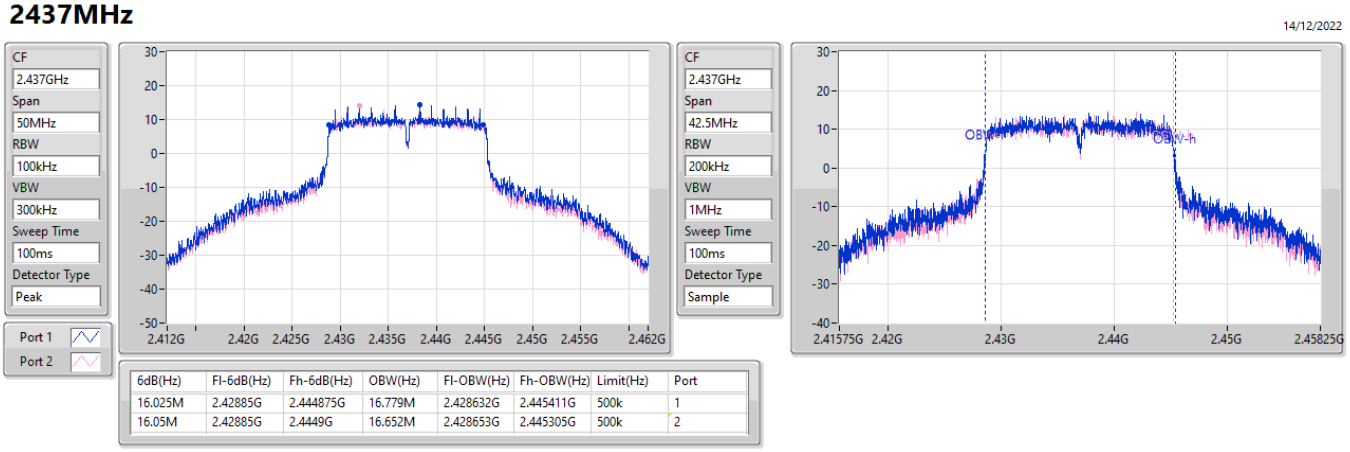
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.40385G	2.420125G	16.354M	2.403802G	2.420156G	500k	1
16.275M	2.40385G	2.420125G	16.397M	2.40378G	2.420177G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

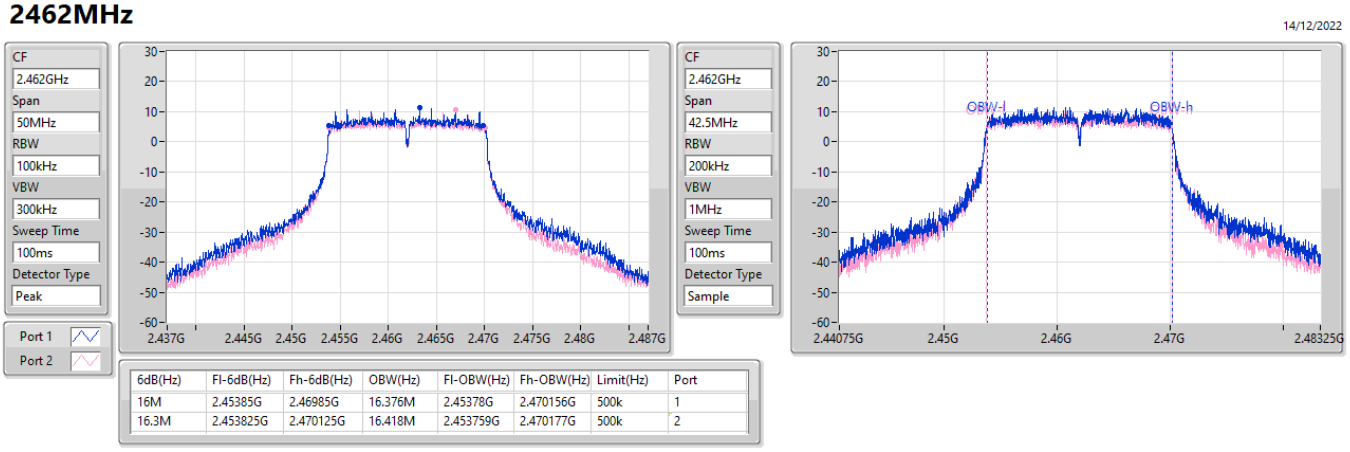
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.025M	2.42885G	2.444875G	16.779M	2.428632G	2.445411G	500k	1
16.05M	2.42885G	2.4449G	16.652M	2.428653G	2.445305G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16M	2.45385G	2.46985G	16.376M	2.45378G	2.470156G	500k	1
16.3M	2.453825G	2.470125G	16.418M	2.453759G	2.470177G	500k	2

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.9M	19.002M	19M0D1D	18.425M	18.88M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.8M	37.711M	37M7D1D	27.6M	37.662M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

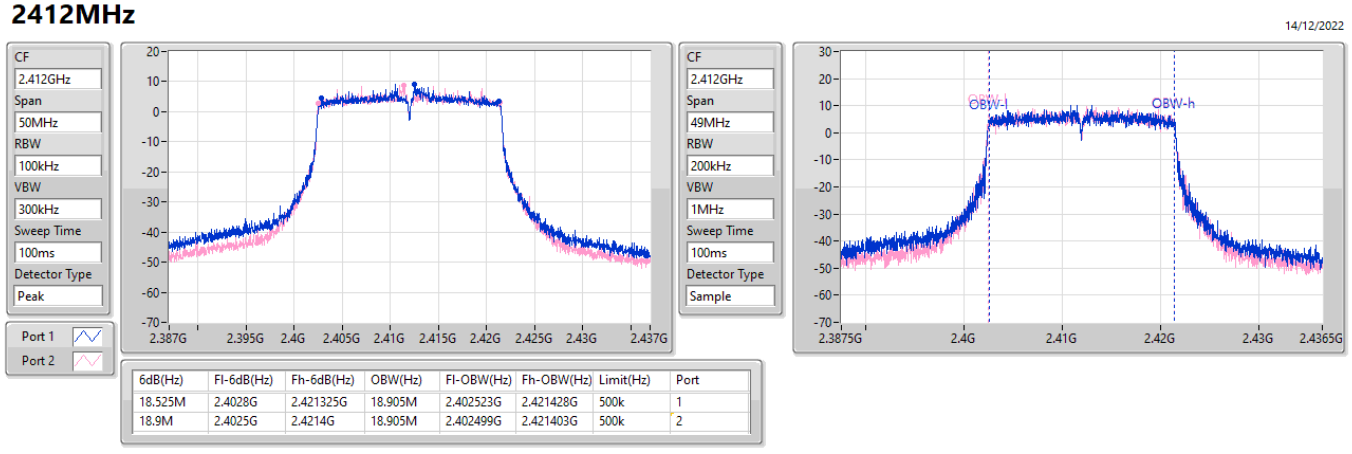
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.525M	18.905M	18.9M	18.905M
2437MHz	Pass	500k	18.425M	19.002M	18.9M	18.978M
2462MHz	Pass	500k	18.625M	18.88M	18.8M	18.88M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	27.6M	37.662M	35.4M	37.662M
2437MHz	Pass	500k	31.35M	37.662M	36.85M	37.711M
2452MHz	Pass	500k	36.65M	37.662M	37.8M	37.662M

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

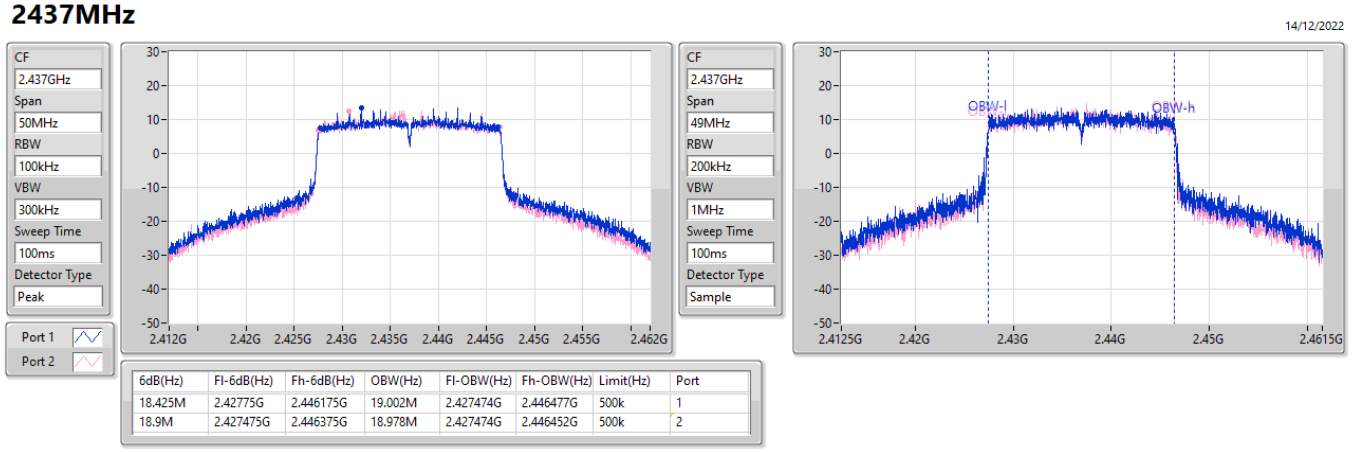
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.525M	2.4028G	2.421325G	18.905M	2.402523G	2.421428G	500k	1
18.9M	2.4025G	2.4214G	18.905M	2.402499G	2.421403G	500k	2

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **EBW**

2437MHz

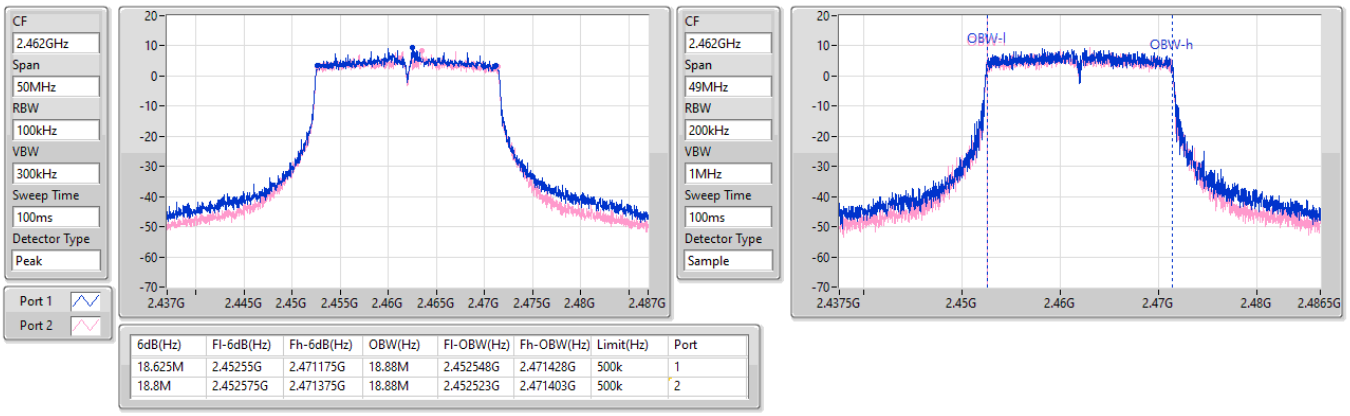


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.425M	2.42775G	2.446175G	19.002M	2.427474G	2.446477G	500k	1
18.9M	2.427475G	2.446375G	18.978M	2.427474G	2.446452G	500k	2

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2462MHz

14/12/2022

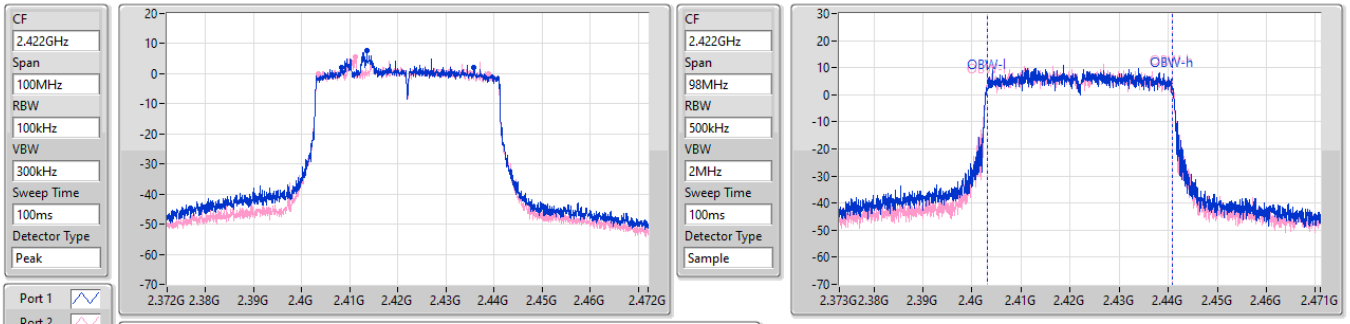


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.625M	2.45255G	2.471175G	18.88M	2.452548G	2.471428G	500k	1
18.8M	2.452575G	2.471375G	18.88M	2.452523G	2.471403G	500k	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2422MHz

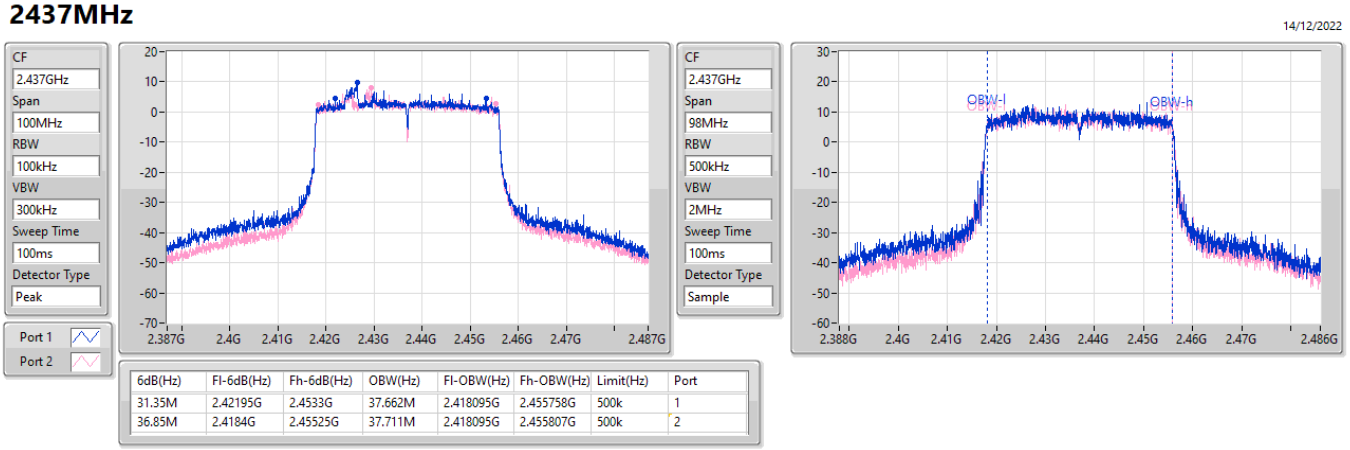
14/12/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.6M	2.4082G	2.4358G	37.662M	2.403144G	2.440807G	500k	1
35.4M	2.40335G	2.43875G	37.662M	2.403144G	2.440807G	500k	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **EBW**

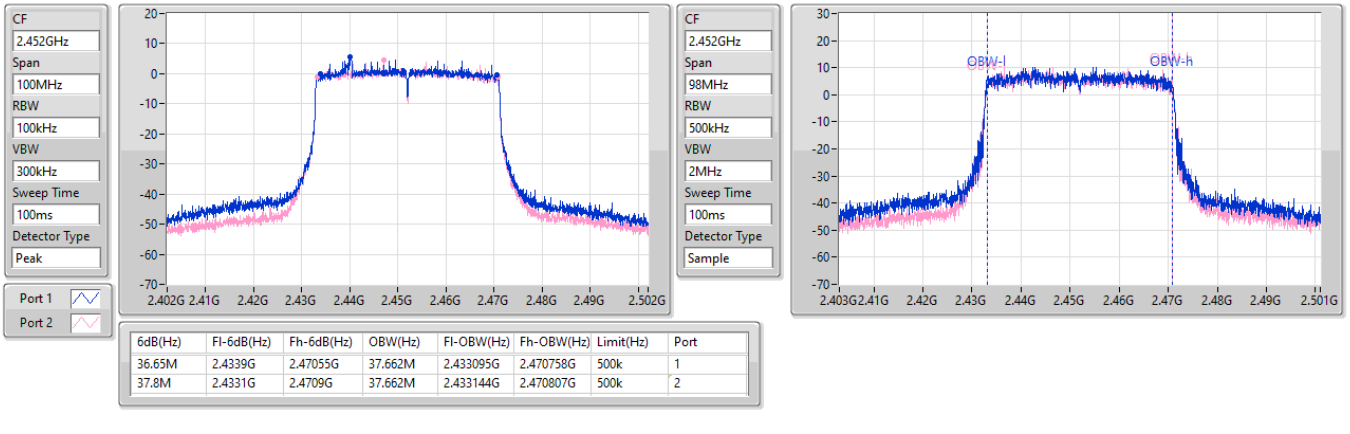
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.35M	2.42195G	2.4533G	37.662M	2.418095G	2.455758G	500k	1
36.85M	2.4184G	2.45525G	37.711M	2.418095G	2.455807G	500k	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **EBW**

2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.65M	2.4339G	2.47055G	37.662M	2.433095G	2.470758G	500k	1
37.8M	2.4331G	2.4709G	37.662M	2.433144G	2.470807G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	28.73	0.74645
802.11g_Nss1,(6Mbps)_2TX	28.18	0.65766

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.626	23.00	22.90	25.96	30.00
2437MHz	Pass	2.626	25.86	25.58	28.73	30.00
2462MHz	Pass	2.626	24.10	23.34	26.75	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.626	21.41	21.27	24.35	30.00
2417MHz	Pass	2.626	22.80	22.61	25.72	30.00
2437MHz	Pass	2.626	25.28	25.05	28.18	30.00
2457MHz	Pass	2.626	22.73	22.12	25.45	30.00
2462MHz	Pass	2.626	22.49	21.71	25.13	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	27.56	0.57016
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	24.19	0.26242

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.636	20.28	19.99	23.15	30.00
2417MHz	Pass	5.636	21.76	22.05	24.92	30.00
2437MHz	Pass	5.636	24.69	24.41	27.56	30.00
2457MHz	Pass	5.636	21.84	21.58	24.72	30.00
2462MHz	Pass	5.636	20.38	19.77	23.10	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.636	18.99	19.21	22.11	30.00
2437MHz	Pass	5.636	21.36	21.00	24.19	30.00
2452MHz	Pass	5.636	19.38	18.92	22.17	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	4.12
802.11g_Nss1,(6Mbps)_2TX	-0.62

RBW = 3kHz;

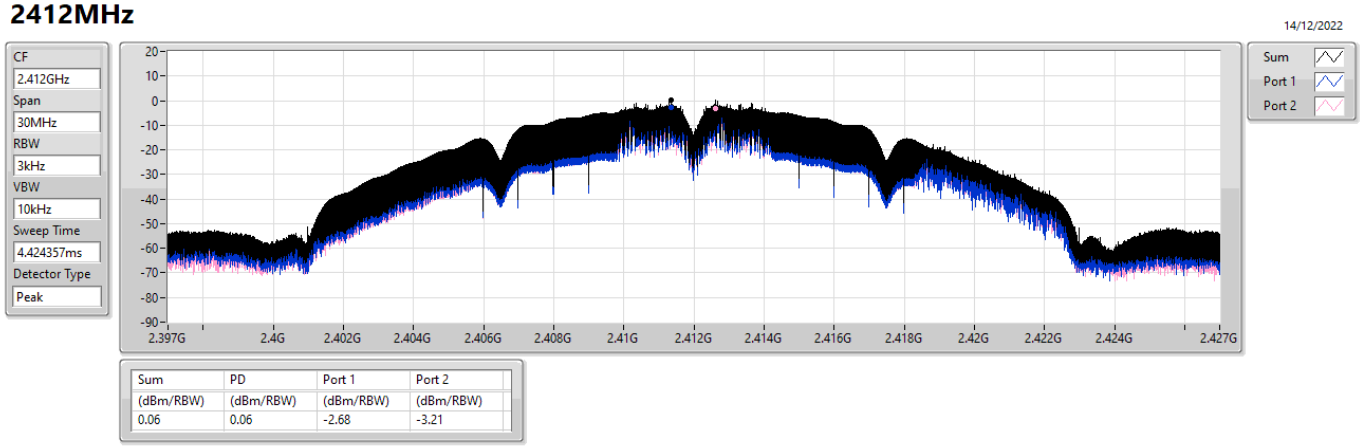
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.636	-2.68	-3.21	0.06	8.00
2437MHz	Pass	5.636	0.72	1.76	4.12	8.00
2462MHz	Pass	5.636	-0.84	-3.99	0.62	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.636	-6.72	-7.68	-5.30	8.00
2437MHz	Pass	5.636	-1.76	-2.74	-0.62	8.00
2462MHz	Pass	5.636	-5.74	-6.48	-3.99	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **PSD**

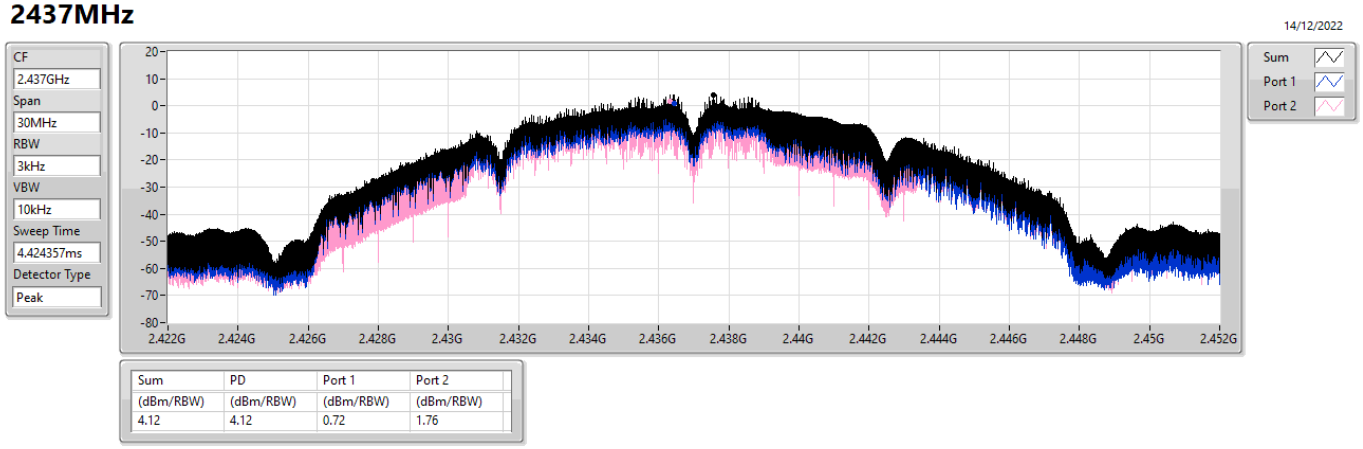
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.06	0.06	-2.68	-3.21

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **PSD**

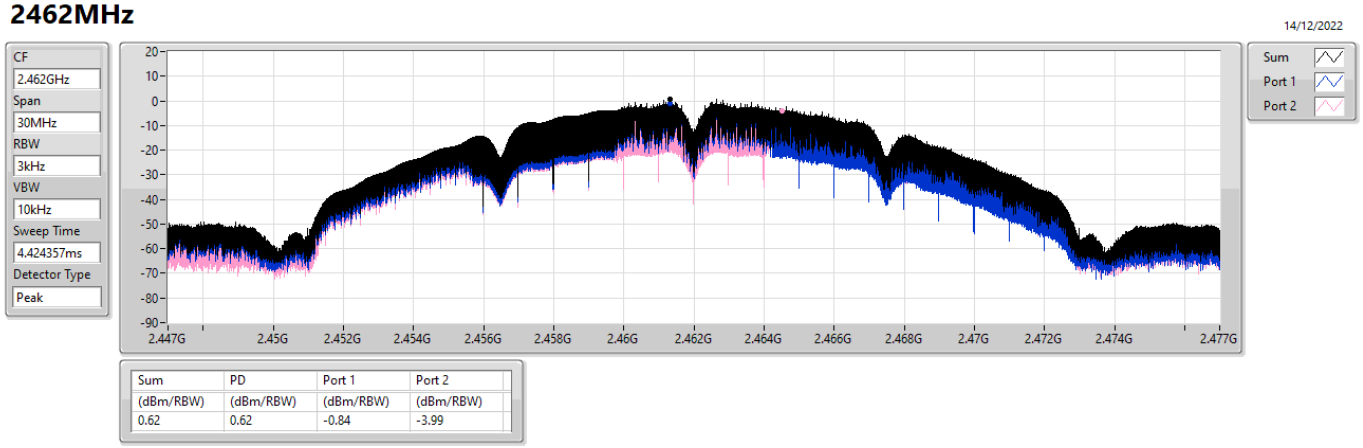
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.12	4.12	0.72	1.76

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **PSD**

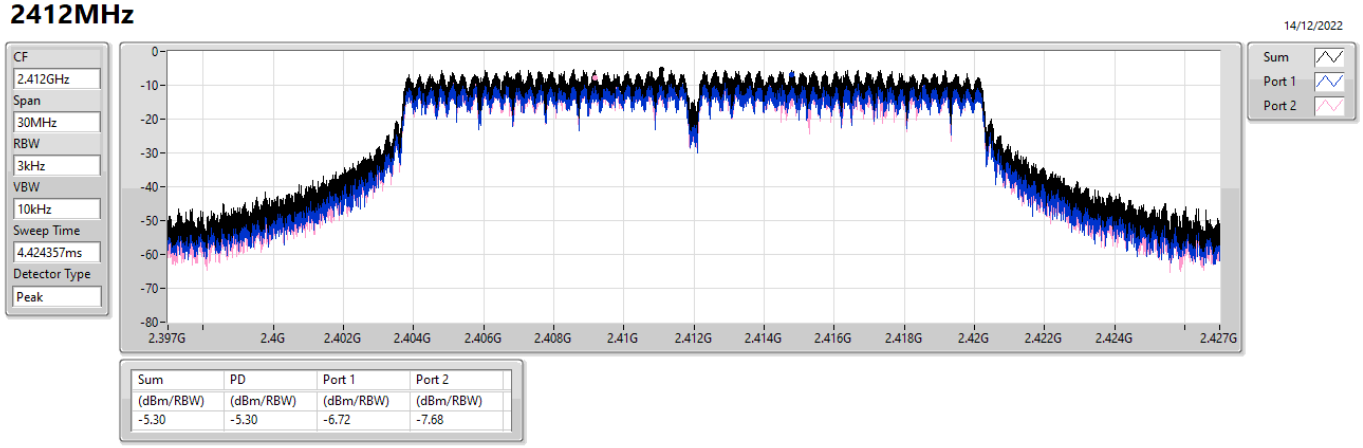
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.62	0.62	-0.84	-3.99

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

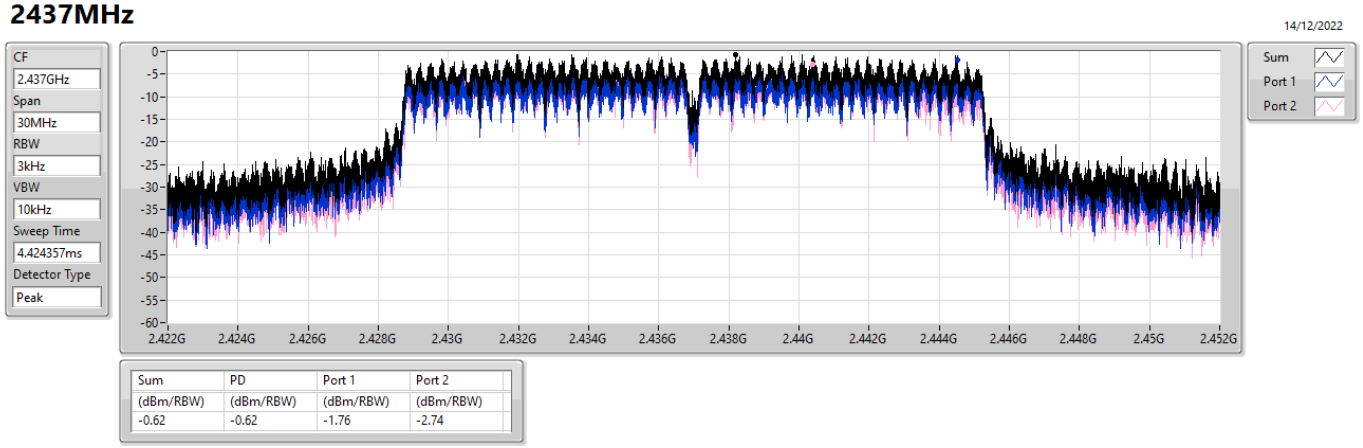
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.30	-5.30	-6.72	-7.68

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

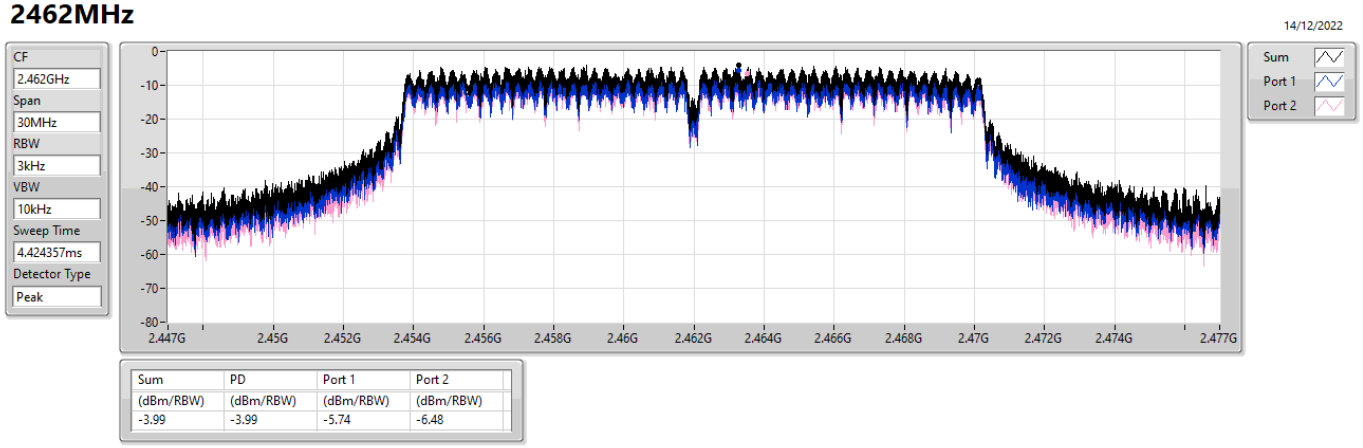
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.62	-0.62	-1.76	-2.74

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.99	-3.99	-5.74	-6.48

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.86
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-6.49

RBW = 3kHz;

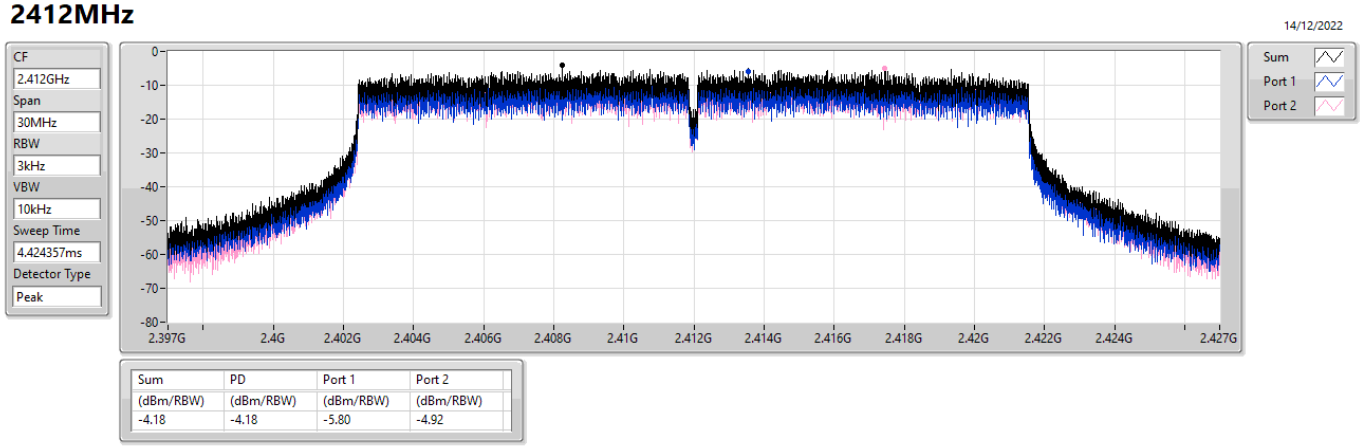
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.636	-5.80	-4.92	-4.18	8.00
2437MHz	Pass	5.636	-1.14	-1.43	0.86	8.00
2462MHz	Pass	5.636	-5.89	-6.71	-4.98	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.636	-10.03	-9.62	-8.19	8.00
2437MHz	Pass	5.636	-8.27	-7.56	-6.49	8.00
2452MHz	Pass	5.636	-8.67	-9.18	-7.99	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **PSD**

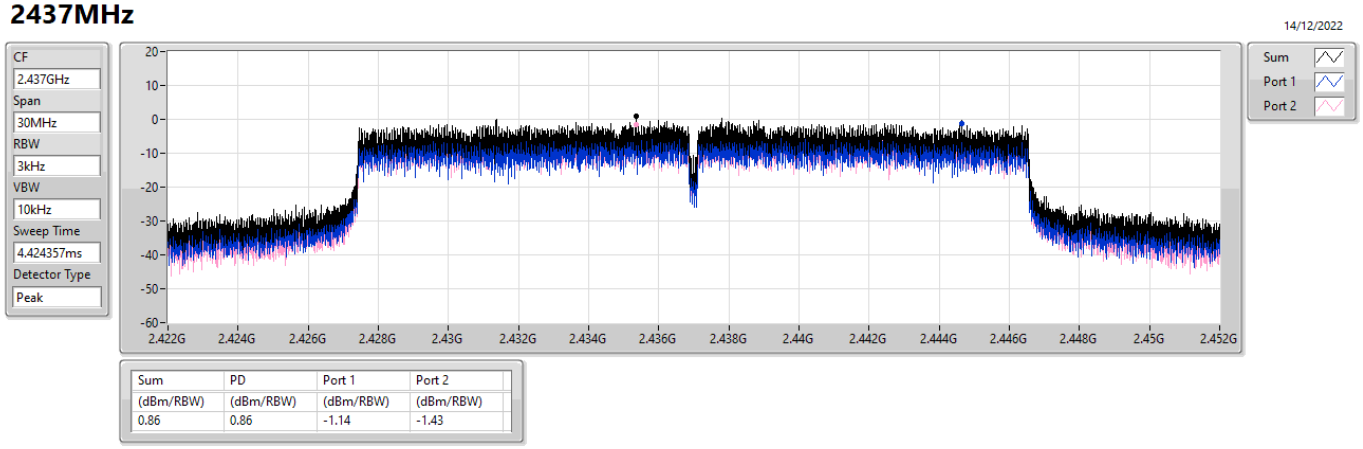
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.18	-4.18	-5.80	-4.92

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **PSD**

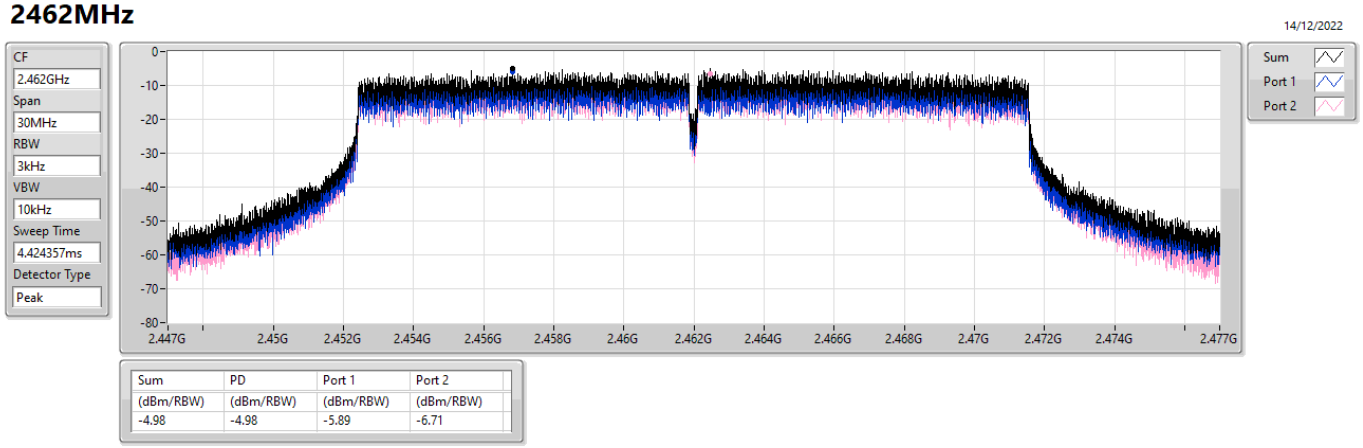
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.86	0.86	-1.14	-1.43

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **PSD**

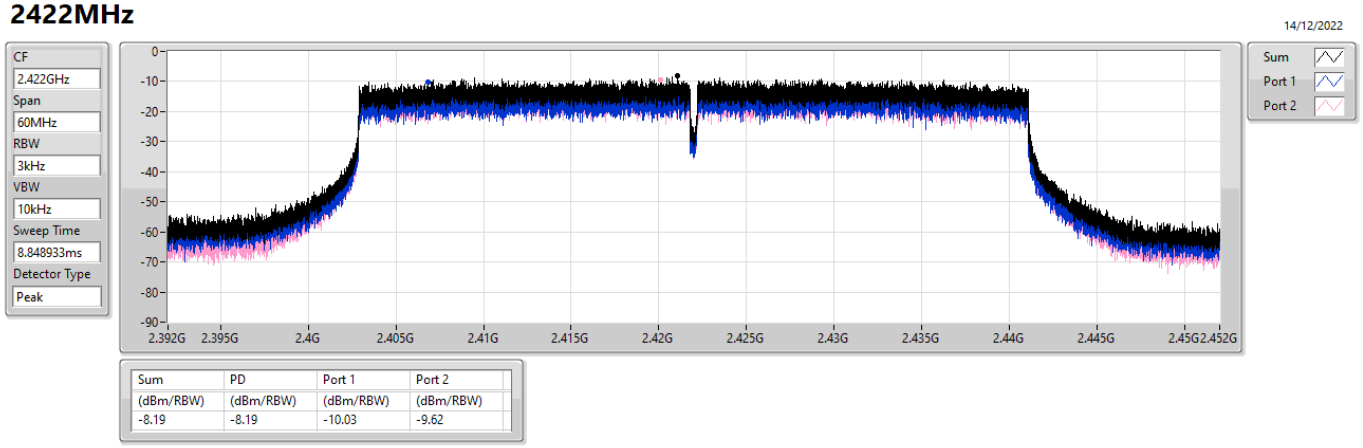
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.98	-4.98	-5.89	-6.71

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **PSD**

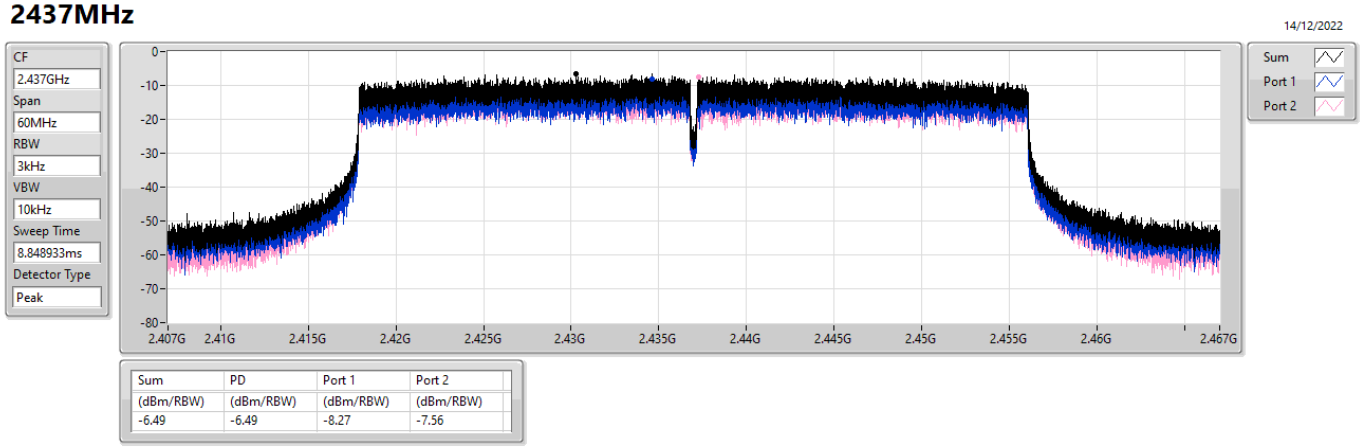
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.19	-8.19	-10.03	-9.62

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **PSD**

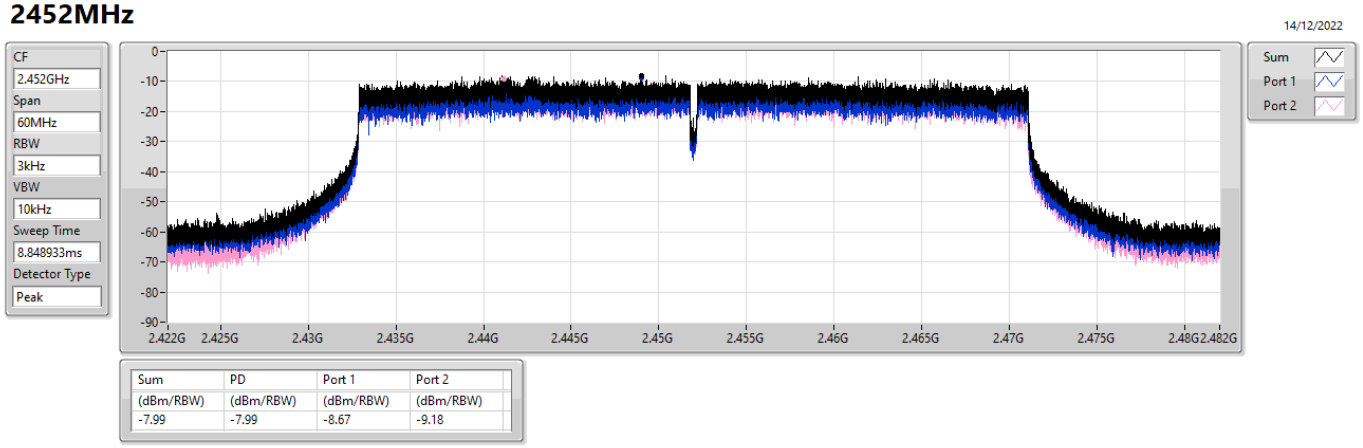
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.49	-6.49	-8.27	-7.56

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **PSD**

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.99	-7.99	-8.67	-9.18

Summary

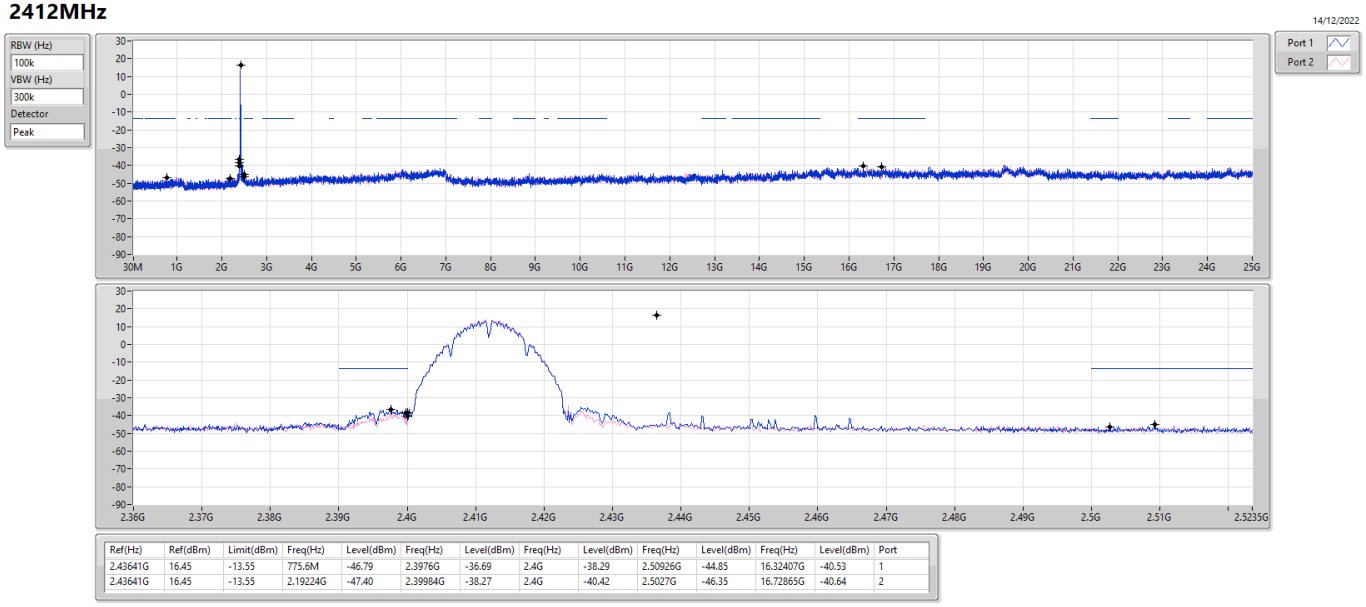
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43641G	16.45	-13.55	775.6M	-46.79	2.3976G	-36.69	2.4G	-38.29	2.50926G	-44.85	16.32407G	-40.53	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44192G	14.93	-15.07	501.83M	-46.56	2.39976G	-28.73	2.4G	-27.25	2.5103G	-45.86	6.85023G	-41.10	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43641G	16.45	-13.55	775.6M	-46.79	2.3976G	-36.69	2.4G	-38.29	2.50926G	-44.85	16.32407G	-40.53	1
2412MHz	Pass	2.43641G	16.45	-13.55	2.19224G	-47.40	2.39984G	-38.27	2.4G	-40.42	2.5027G	-46.35	16.72865G	-40.64	2
2437MHz	Pass	2.43641G	16.45	-13.55	2.30059G	-47.73	2.39552G	-40.85	2.4G	-43.95	2.51118G	-45.26	6.7547G	-40.28	1
2437MHz	Pass	2.43641G	16.45	-13.55	744.15M	-47.05	2.39736G	-42.84	2.4G	-45.84	2.50046G	-43.82	16.82698G	-40.58	2
2462MHz	Pass	2.43641G	16.45	-13.55	2.15962G	-47.58	2.4G	-46.06	2.4G	-47.04	2.50014G	-44.19	6.98789G	-40.81	1
2462MHz	Pass	2.43641G	16.45	-13.55	372.51M	-47.21	2.3908G	-46.07	2.4G	-47.78	2.50902G	-44.50	16.29317G	-40.98	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	14.93	-15.07	2.08157G	-47.44	2.4G	-28.60	2.4G	-27.96	2.50718G	-46.39	16.42522G	-40.35	1
2412MHz	Pass	2.44192G	14.93	-15.07	501.83M	-46.56	2.39976G	-28.73	2.4G	-27.25	2.5103G	-45.86	6.85023G	-41.10	2
2437MHz	Pass	2.44192G	14.93	-15.07	956.18M	-47.62	2.39952G	-37.64	2.4G	-38.90	2.5007G	-45.96	6.7547G	-40.93	1
2437MHz	Pass	2.44192G	14.93	-15.07	2.13632G	-47.52	2.39792G	-39.37	2.4G	-39.26	2.50982G	-45.18	16.81574G	-41.23	2
2462MHz	Pass	2.44192G	14.93	-15.07	2.30292G	-46.87	2.39168G	-46.78	2.4G	-48.98	2.5051G	-45.75	6.57489G	-40.77	1
2462MHz	Pass	2.44192G	14.93	-15.07	950.35M	-46.95	2.39616G	-45.73	2.4G	-47.47	2.50822G	-45.77	16.4505G	-41.41	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

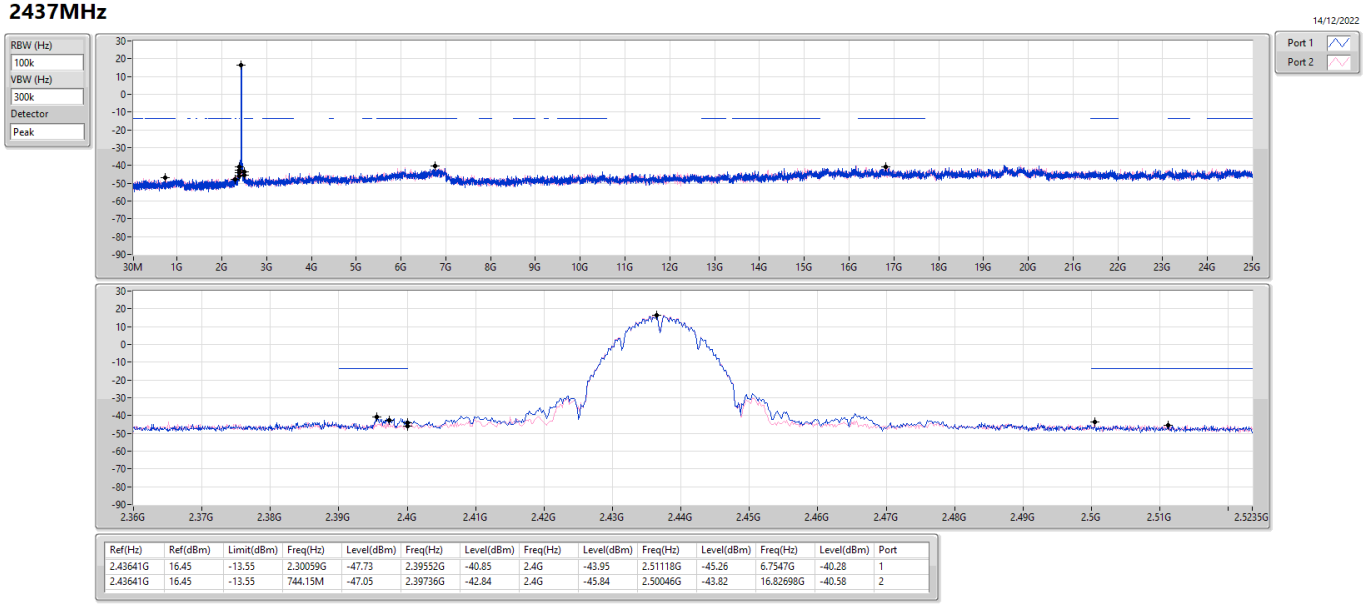
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43641G	16.45	-13.55	775.6M	-46.79	2.3976G	-36.69	2.4G	-38.29	2.50926G	-44.85	16.32407G	-40.53	1
2.43641G	16.45	-13.55	2.19224G	-47.40	2.39984G	-38.27	2.4G	-40.42	2.5027G	-46.35	16.72865G	-40.64	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

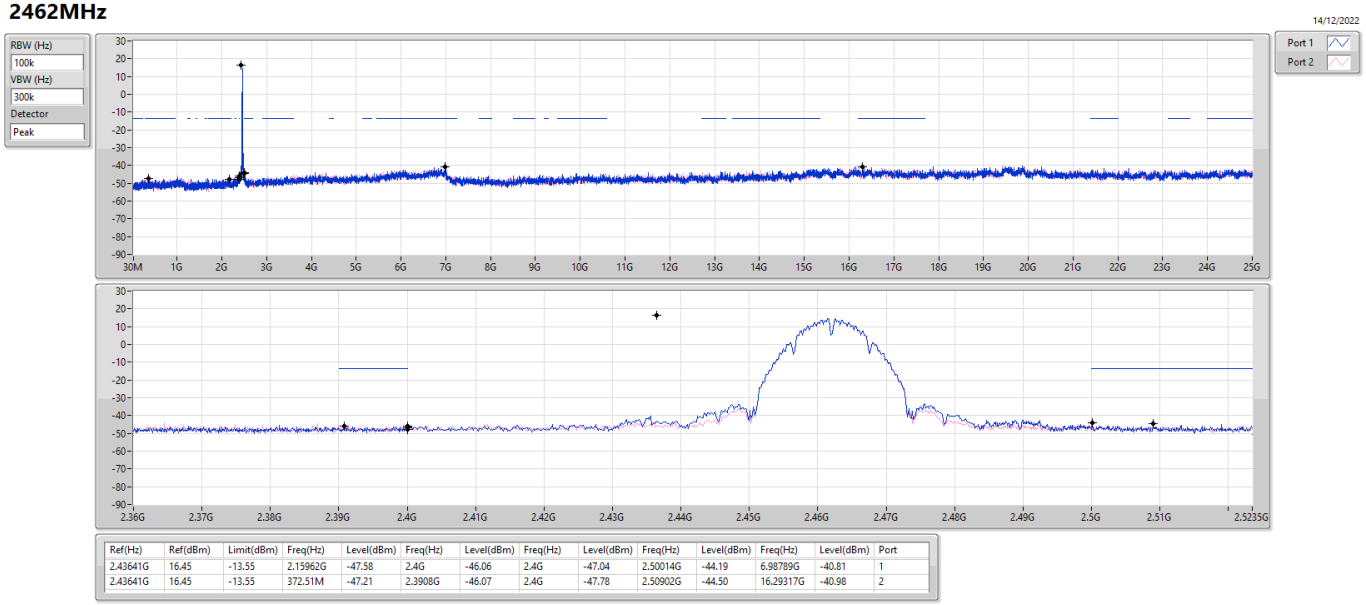
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43641G	16.45	-13.55	2.30059G	-47.73	2.39552G	-40.85	2.4G	-43.95	2.51118G	-45.26	6.7547G	-40.28	1
2.43641G	16.45	-13.55	744.15M	-47.05	2.39736G	-42.84	2.4G	-45.84	2.50046G	-43.82	16.82698G	-40.58	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

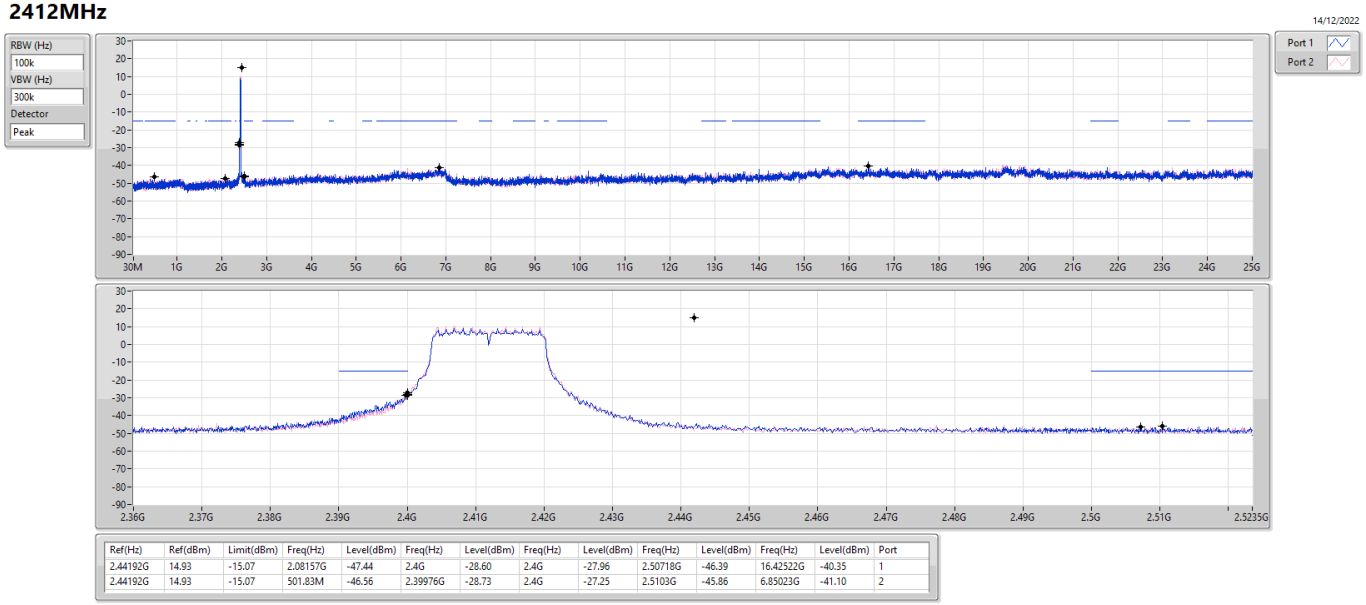
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43641G	16.45	-13.55	2.15962G	-47.58	2.4G	-46.06	2.4G	-47.04	2.50014G	-44.19	6.98789G	-40.81	1
2.43641G	16.45	-13.55	372.51M	-47.21	2.3908G	-46.07	2.4G	-47.78	2.50902G	-44.50	16.29317G	-40.98	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

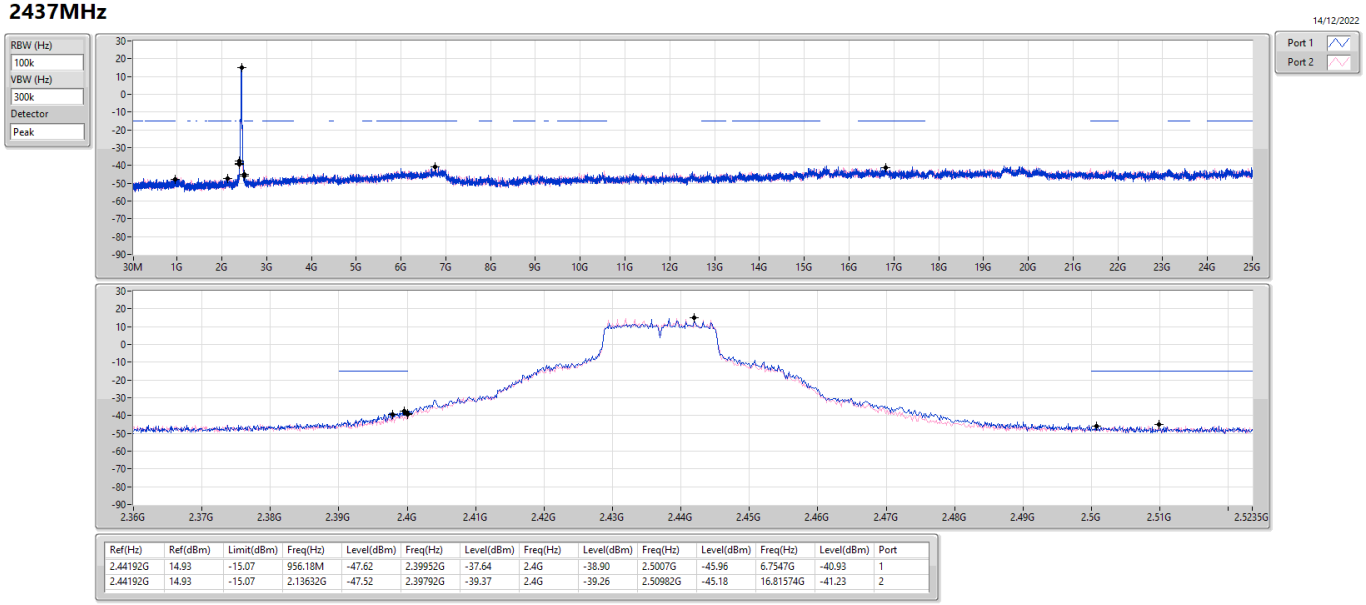
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	14.93	-15.07	2.08157G	-47.44	2.4G	-28.60	2.4G	-27.96	2.50718G	-46.39	16.42522G	-40.35	1
2.44192G	14.93	-15.07	501.83M	-46.56	2.39976G	-28.73	2.4G	-27.25	2.5103G	-45.86	6.85023G	-41.10	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

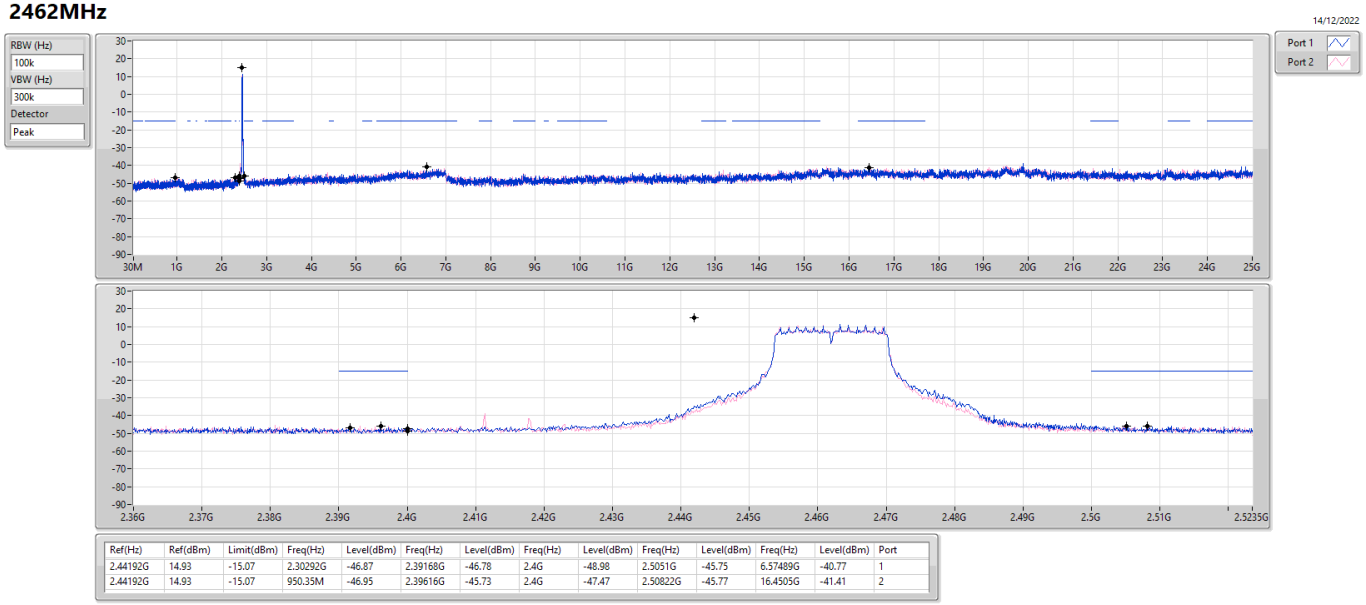
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	14.93	-15.07	956.18M	-47.62	2.39952G	-37.64	2.4G	-38.90	2.5007G	-45.96	6.7547G	-40.93	1
2.44192G	14.93	-15.07	2.13632G	-47.52	2.39792G	-39.37	2.4G	-39.26	2.50982G	-45.18	16.81574G	-41.23	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44192G	14.93	-15.07	2.30292G	-46.87	2.39168G	-46.78	2.4G	-48.98	2.5051G	-45.75	6.57489G	-40.77	1
2.44192G	14.93	-15.07	950.35M	-46.95	2.39616G	-45.73	2.4G	-47.47	2.50822G	-45.77	16.4505G	-41.41	2

Summary

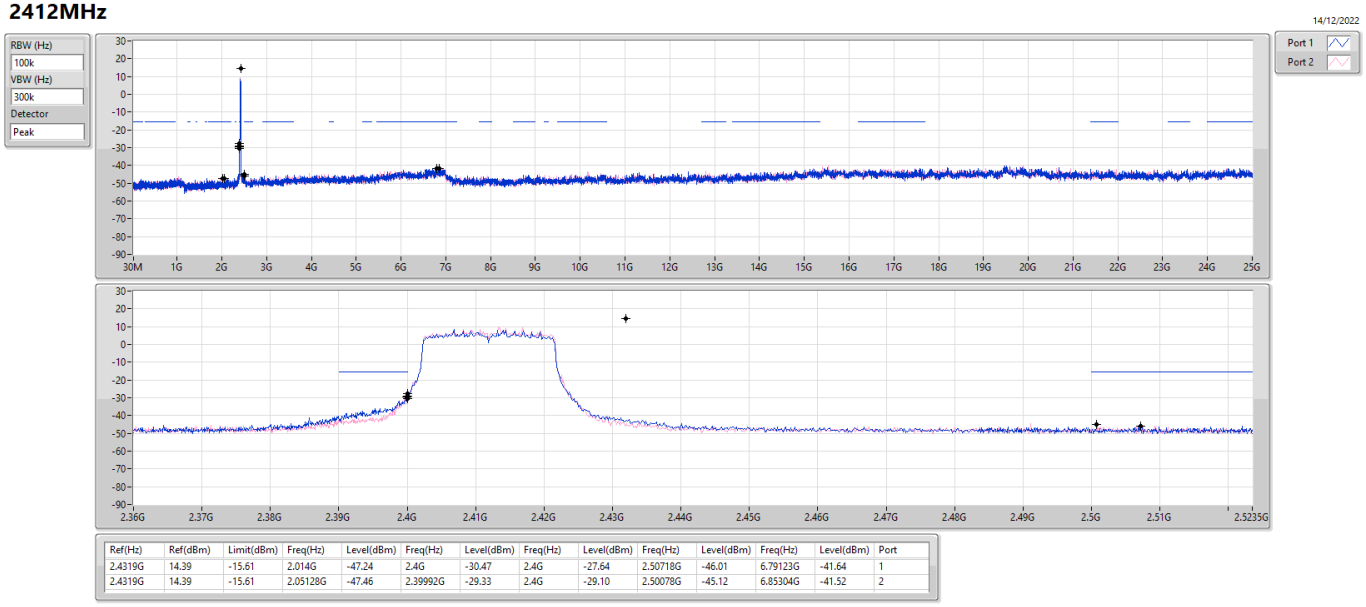
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.4319G	14.39	-15.61	2.014G	-47.24	2.4G	-30.47	2.4G	-27.64	2.50718G	-46.01	6.79123G	-41.64	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42839G	10.29	-19.71	30M	-47.32	2.4G	-34.09	2.4G	-32.85	2.51806G	-46.51	16.7658G	-40.13	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4319G	14.39	-15.61	2.014G	-47.24	2.4G	-30.47	2.4G	-27.64	2.50718G	-46.01	6.79123G	-41.64	1
2412MHz	Pass	2.4319G	14.39	-15.61	2.05128G	-47.46	2.39992G	-29.33	2.4G	-29.10	2.50078G	-45.12	6.85304G	-41.52	2
2437MHz	Pass	2.4319G	14.39	-15.61	849M	-47.52	2.39992G	-38.18	2.4G	-39.27	2.50414G	-44.53	16.48984G	-41.26	1
2437MHz	Pass	2.4319G	14.39	-15.61	2.14914G	-47.62	2.39944G	-39.70	2.4G	-39.48	2.50942G	-45.66	16.72584G	-40.00	2
2462MHz	Pass	2.4319G	14.39	-15.61	2.10487G	-46.39	2.39336G	-45.84	2.4G	-47.68	2.50158G	-45.27	16.43926G	-41.40	1
2462MHz	Pass	2.4319G	14.39	-15.61	555.42M	-46.81	2.39424G	-45.21	2.4G	-49.28	2.5187G	-45.80	16.84946G	-40.93	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42839G	10.29	-19.71	30M	-47.32	2.4G	-34.09	2.4G	-32.85	2.51806G	-46.51	16.7658G	-40.13	1
2422MHz	Pass	2.42839G	10.29	-19.71	2.10131G	-47.13	2.39984G	-35.10	2.4G	-32.92	2.52286G	-46.56	15.08868G	-40.68	2
2437MHz	Pass	2.42839G	10.29	-19.71	778.83M	-46.87	2.39936G	-36.11	2.4G	-37.38	2.55486G	-45.72	6.91899G	-41.55	1
2437MHz	Pass	2.42839G	10.29	-19.71	2.11161G	-47.33	2.39792G	-39.66	2.4G	-40.92	2.50478G	-45.58	15.07746G	-40.90	2
2452MHz	Pass	2.42839G	10.29	-19.71	1.7372G	-46.87	2.3992G	-45.84	2.4G	-47.37	2.50222G	-45.30	24.43348G	-41.34	1
2452MHz	Pass	2.42839G	10.29	-19.71	2.19405G	-46.95	2.39888G	-47.17	2.4G	-46.45	2.51742G	-45.53	16.84714G	-40.45	2

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

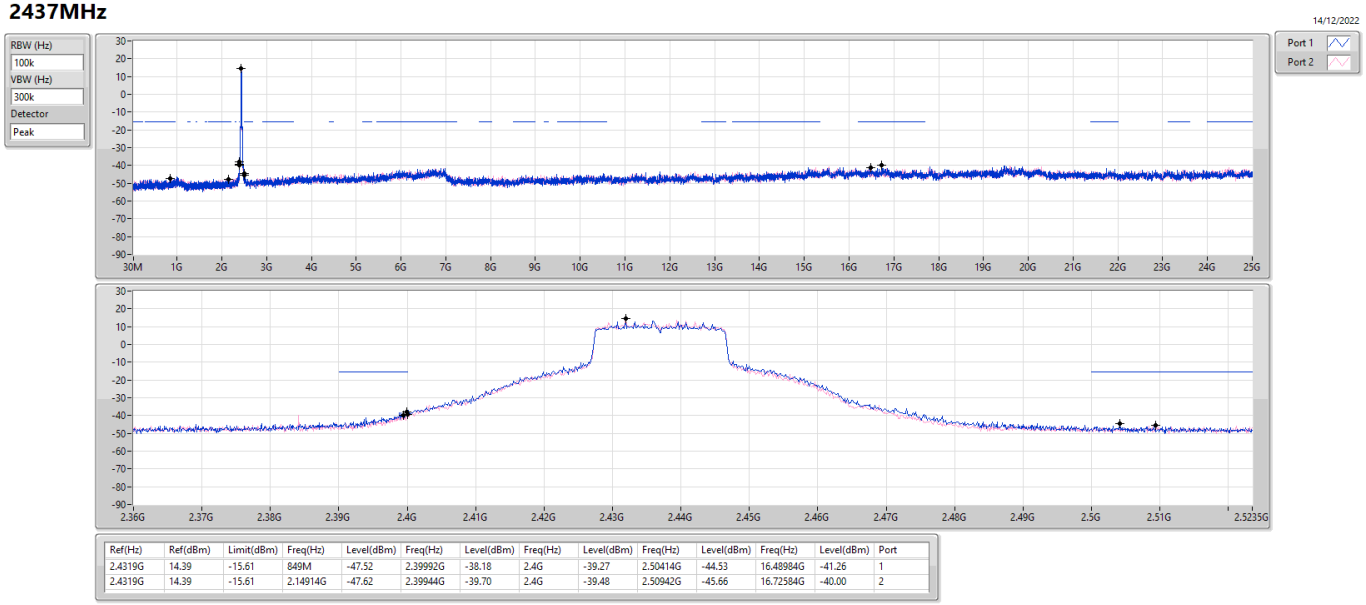
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4319G	14.39	-15.61	2.014G	-47.24	2.4G	-30.47	2.4G	-27.64	2.50718G	-46.01	6.79123G	-41.64	1
2.4319G	14.39	-15.61	2.05128G	-47.46	2.39992G	-29.33	2.4G	-29.10	2.50078G	-45.12	6.85304G	-41.52	2

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

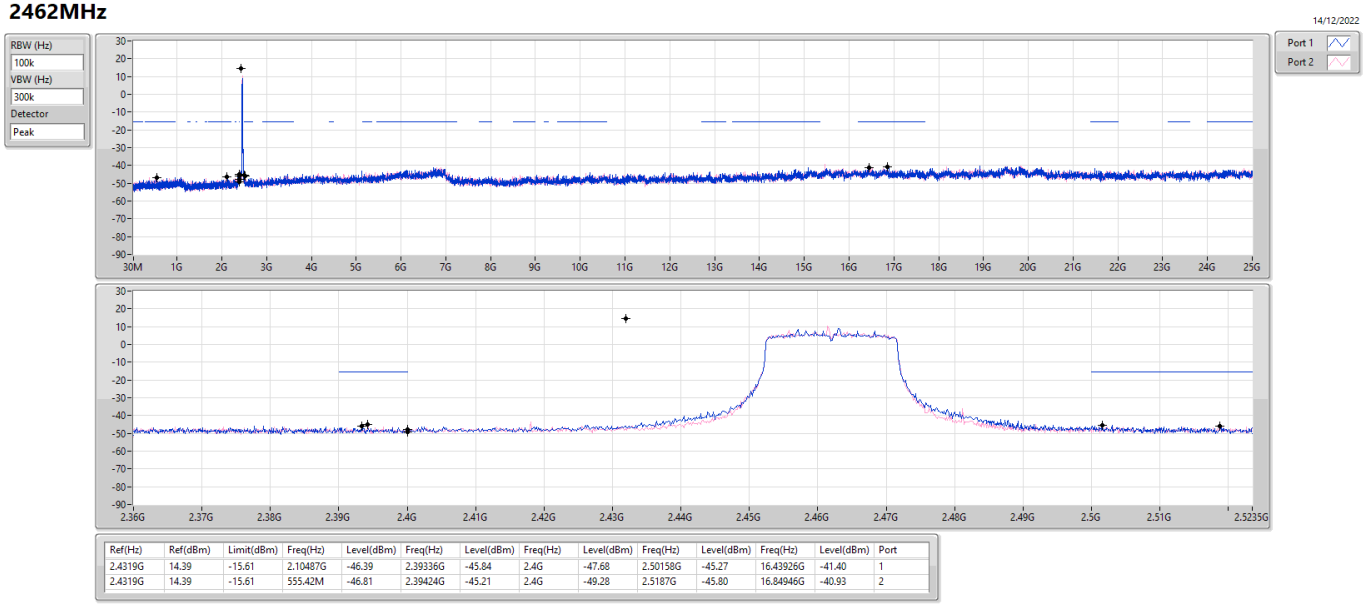
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4319G	14.39	-15.61	849M	-47.52	2.39992G	-38.18	2.4G	-39.27	2.50414G	-44.53	16.48984G	-41.26	1
2.4319G	14.39	-15.61	2.14914G	-47.62	2.39944G	-39.70	2.4G	-39.48	2.50942G	-45.66	16.72584G	-40.00	2

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

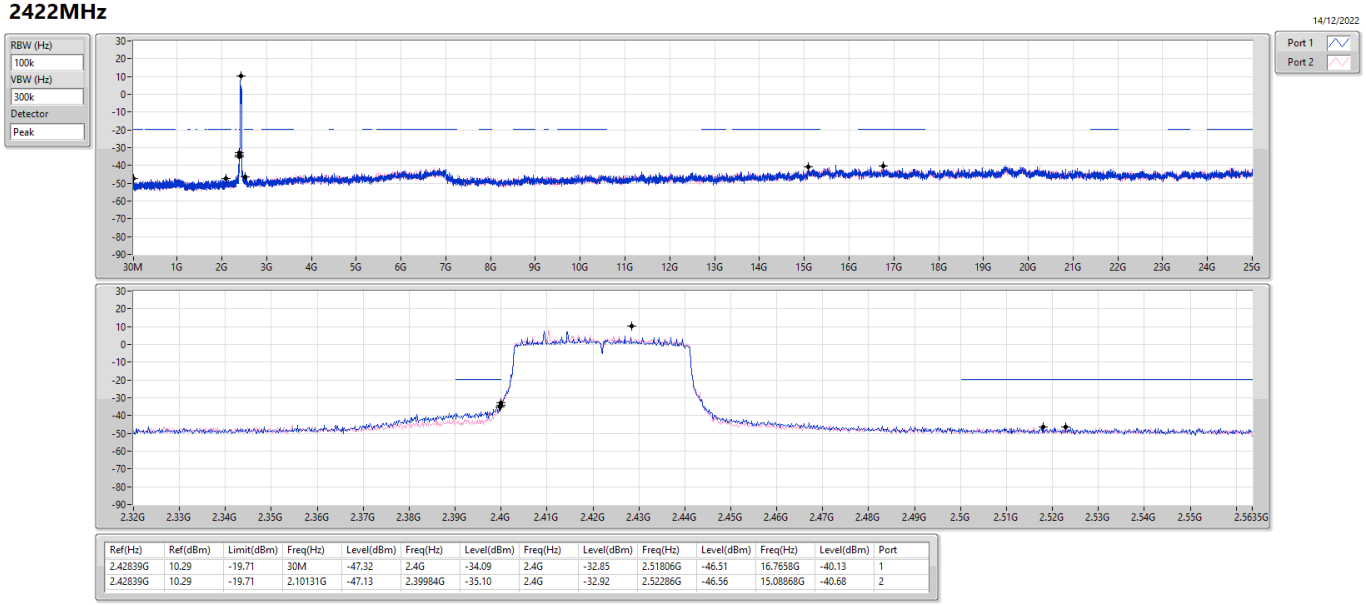
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4319G	14.39	-15.61	2.10487G	-46.39	2.39336G	-45.84	2.4G	-47.68	2.50158G	-45.27	16.43926G	-41.40	1
2.4319G	14.39	-15.61	555.42M	-46.81	2.39424G	-45.21	2.4G	-49.28	2.5187G	-45.80	16.84946G	-40.93	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

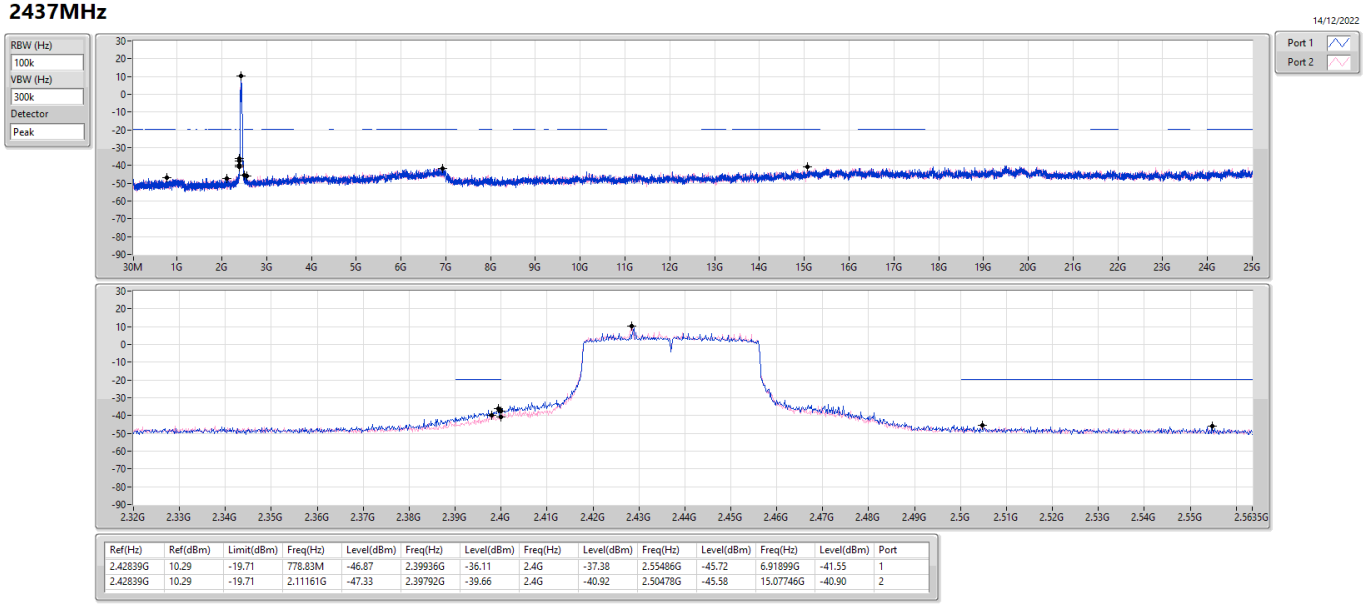
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42839G	10.29	-19.71	30M	-47.32	2.4G	-34.09	2.4G	-32.85	2.51806G	-46.51	16.7658G	-40.13	1
2.42839G	10.29	-19.71	2.10131G	-47.13	2.39984G	-35.10	2.4G	-32.92	2.52286G	-46.56	15.08868G	-40.68	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

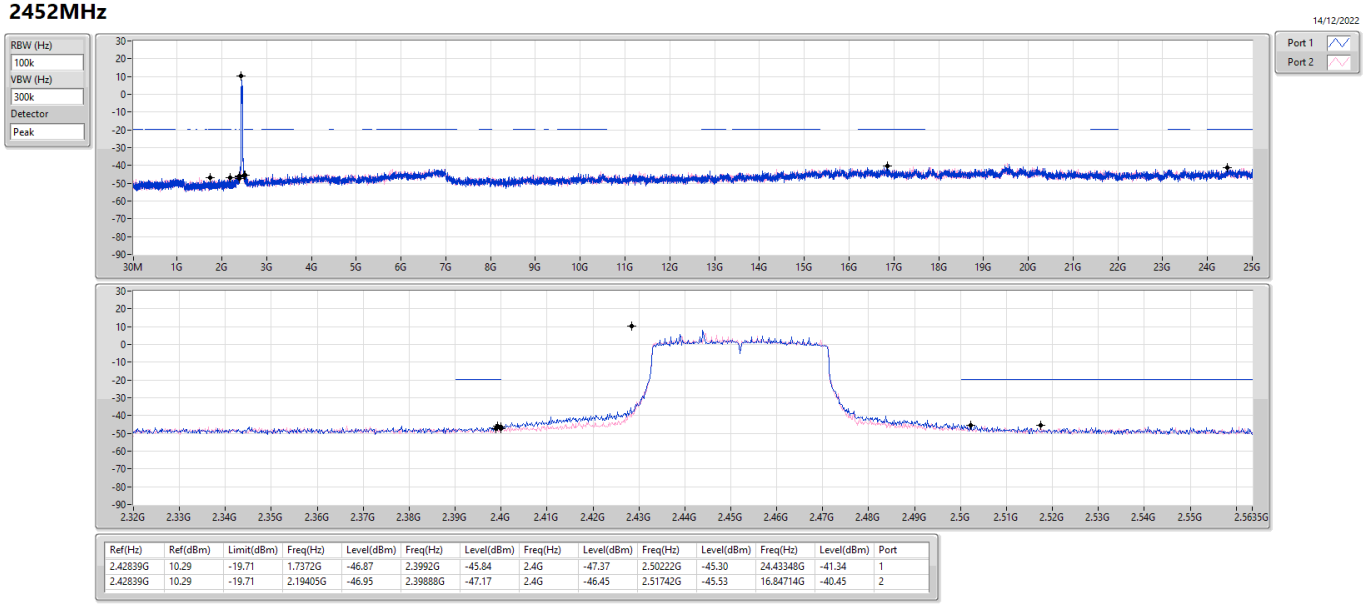
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42839G	10.29	-19.71	778.83M	-46.87	2.39936G	-36.11	2.4G	-37.38	2.55486G	-45.72	6.91899G	-41.55	1
2.42839G	10.29	-19.71	2.11161G	-47.33	2.39792G	-39.66	2.4G	-40.92	2.50478G	-45.58	15.07746G	-40.90	2

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

2452MHz

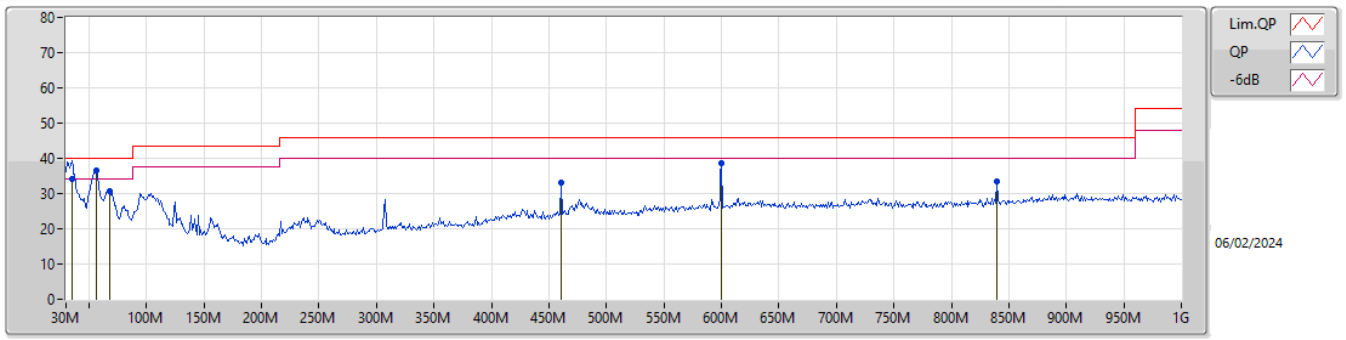


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42839G	10.29	-19.71	1.7372G	-46.87	2.3992G	-45.84	2.4G	-47.37	2.50222G	-45.30	24.43348G	-41.34	1
2.42839G	10.29	-19.71	2.19405G	-46.95	2.39888G	-47.17	2.4G	-46.45	2.51742G	-45.53	16.84714G	-40.45	2

Summary

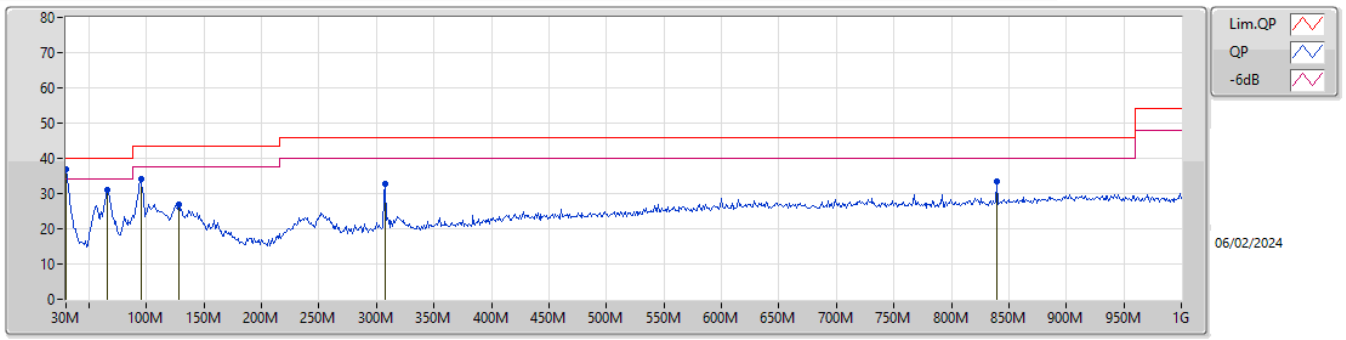
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	PK	30M	36.93	40.00	-3.07	Horizontal

Mode 3



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	34.85M	34.12	40.00	-5.88	-9.63	3	Vertical	192	1.00	-	43.75	21.32	0.37	31.32
PK	56.19M	36.68	40.00	-3.32	-18.16	3	Vertical	360	1.00	"Worst"	54.84	12.97	0.57	31.70
PK	67.83M	30.72	40.00	-9.28	-18.72	3	Vertical	360	1.00	-	49.44	12.38	0.64	31.74
PK	460.68M	33.05	46.00	-12.95	-7.02	3	Vertical	109	1.00	-	40.07	22.93	2.13	32.08
PK	600.36M	38.76	46.00	-7.24	-4.91	3	Vertical	230	1.00	-	43.67	24.82	2.42	32.15
PK	839.95M	33.30	46.00	-12.70	-3.20	3	Vertical	167	1.25	-	36.50	26.20	2.93	32.33

Mode 3



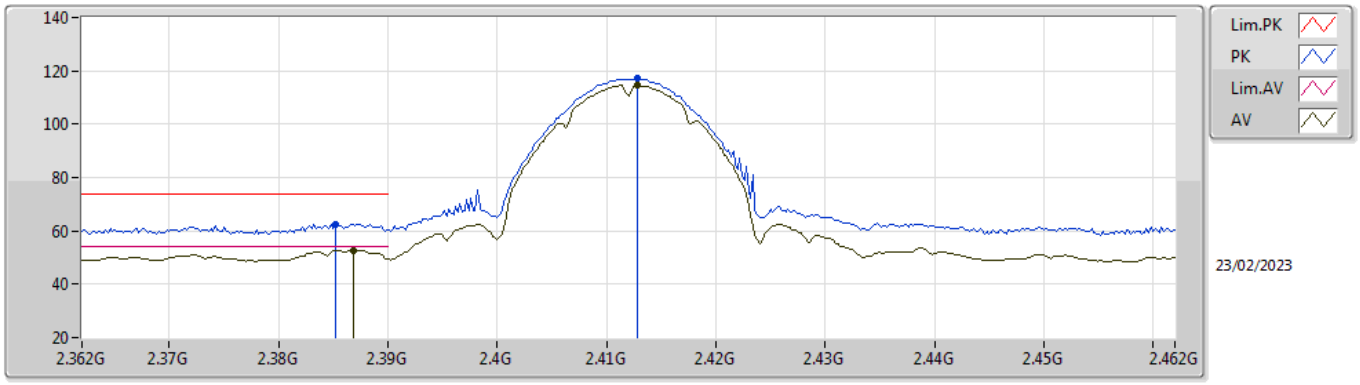
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	36.93	40.00	-3.07	-7.26	3	Horizontal	122	1.25	"Worst"	44.19	23.56	0.33	31.15
PK	65.89M	30.92	40.00	-9.08	-18.78	3	Horizontal	0	3.00	-	49.70	12.34	0.63	31.75
PK	94.99M	34.31	43.50	-9.19	-14.61	3	Horizontal	104	2.00	-	48.92	16.19	0.80	31.60
PK	127.97M	26.91	43.50	-16.59	-12.19	3	Horizontal	305	2.00	-	39.10	18.53	1.00	31.72
PK	307.42M	32.89	46.00	-13.11	-10.82	3	Horizontal	136	1.00	-	43.71	19.32	1.69	31.83
PK	839.95M	33.35	46.00	-12.65	-3.20	3	Horizontal	360	1.25	-	36.55	26.20	2.93	32.33

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.3892G	52.98	54.00	-1.02	3	Vertical	317	1.81	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

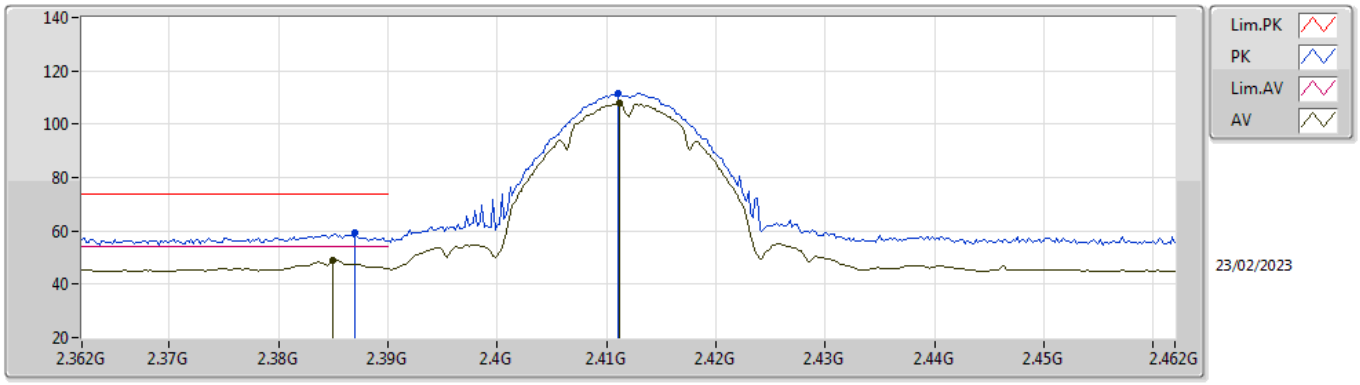


EUT Z_2TX
Setting 19.5
06-H-G-4

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	2.3852G	62.64	74.00	-11.36	31.10	3	Vertical	308	1.80	-	27.66	3.88	-
AV	2.3868G	52.77	54.00	-1.23	21.24	3	Vertical	308	1.80	-	27.65	3.88	-
PK	2.4128G	117.11	Inf	-Inf	85.60	3	Vertical	308	1.80	-	27.60	3.91	-
AV	2.4128G	114.70	Inf	-Inf	83.19	3	Vertical	308	1.80	-	27.60	3.91	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

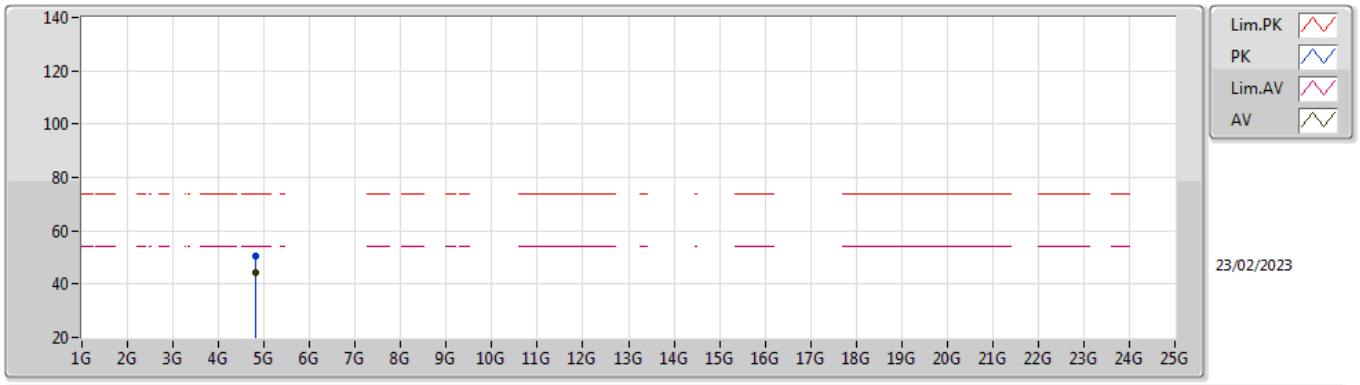


EUT Z_2TX
Setting 19.5
03-C-R-5

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	2.387G	59.11	74.00	-14.89	26.92	3	Horizontal	91	1.94	-	28.20	3.99	-
AV	2.385G	48.78	54.00	-5.22	16.59	3	Horizontal	91	1.94	-	28.20	3.99	-
PK	2.411G	111.59	Inf	-Inf	79.38	3	Horizontal	91	1.94	-	28.20	4.01	-
AV	2.4112G	107.81	Inf	-Inf	75.60	3	Horizontal	91	1.94	-	28.20	4.01	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

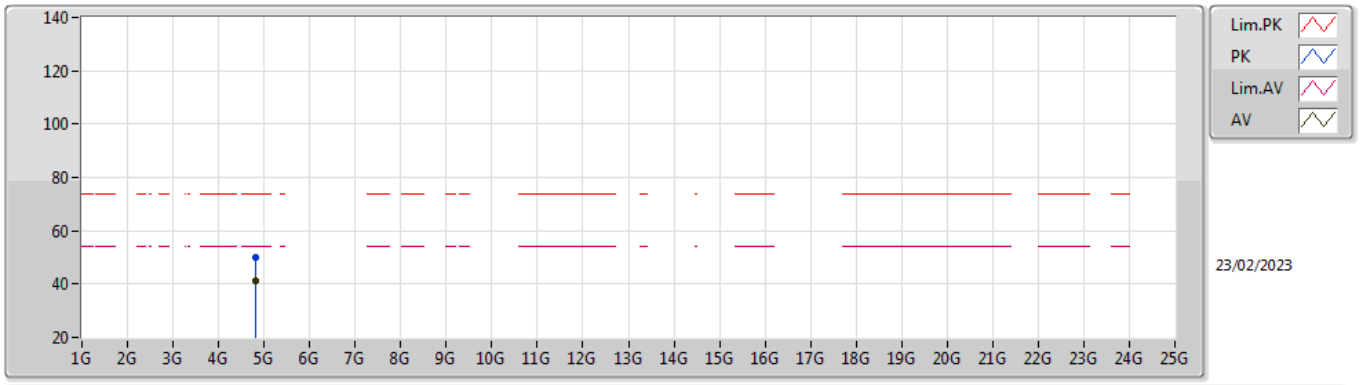


EUT Z_2TX
Setting 19.5
03-C-R-5

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	4.82406G	50.67	74.00	-23.33	45.66	3	Vertical	197	1.63	-	33.40	6.51	34.90
AV	4.82396G	44.37	54.00	-9.63	39.36	3	Vertical	197	1.63	-	33.40	6.51	34.90

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

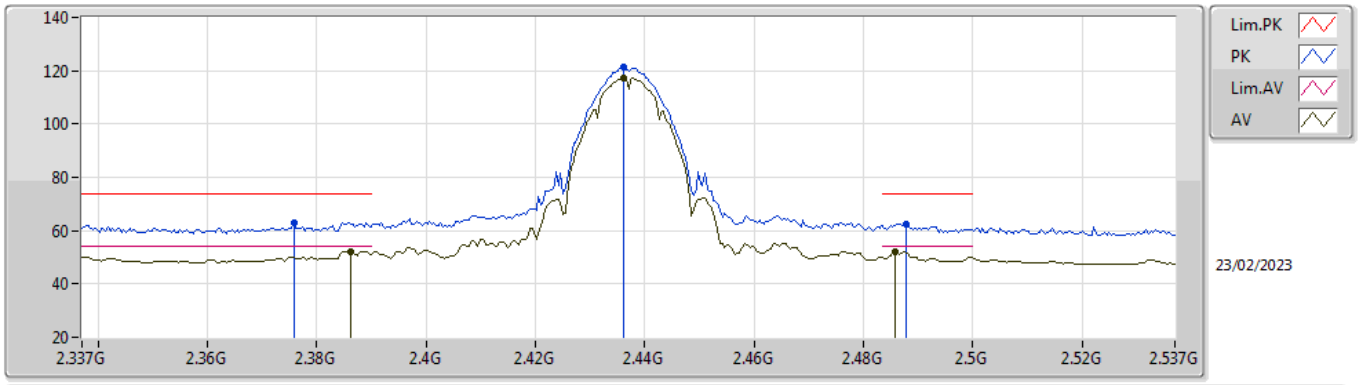


EUT Z_2TX
Setting 19.5
03-C-R-5

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	4.824G	49.79	74.00	-24.21	44.78	3	Horizontal	114	1.02	-	33.40	6.51	34.90
AV	4.82394G	41.44	54.00	-12.56	36.43	3	Horizontal	114	1.02	-	33.40	6.51	34.90

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

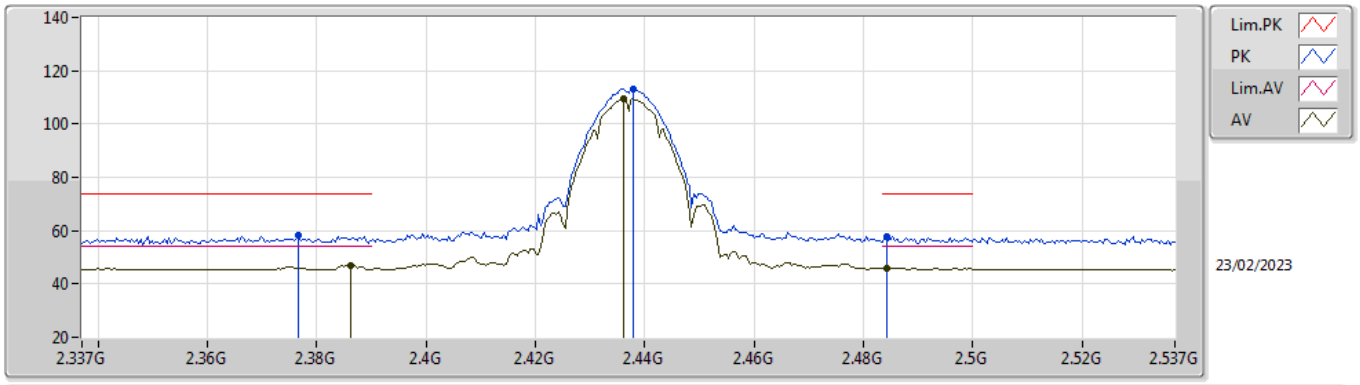


EUT Z_2TX
Setting 22
03-C-J-8

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	2.3758G	63.17	74.00	-10.83	30.99	3	Vertical	300	1.80	-	28.20	3.98	-
AV	2.3862G	52.28	54.00	-1.72	20.05	3	Vertical	300	1.80	-	28.24	3.99	-
PK	2.4362G	121.24	Inf	-Inf	88.90	3	Vertical	300	1.80	-	28.30	4.04	-
AV	2.4362G	117.50	Inf	-Inf	85.16	3	Vertical	300	1.80	-	28.30	4.04	-
PK	2.4878G	62.30	74.00	-11.70	29.76	3	Vertical	300	1.80	-	28.45	4.09	-
AV	2.4858G	52.16	54.00	-1.84	19.63	3	Vertical	300	1.80	-	28.44	4.09	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

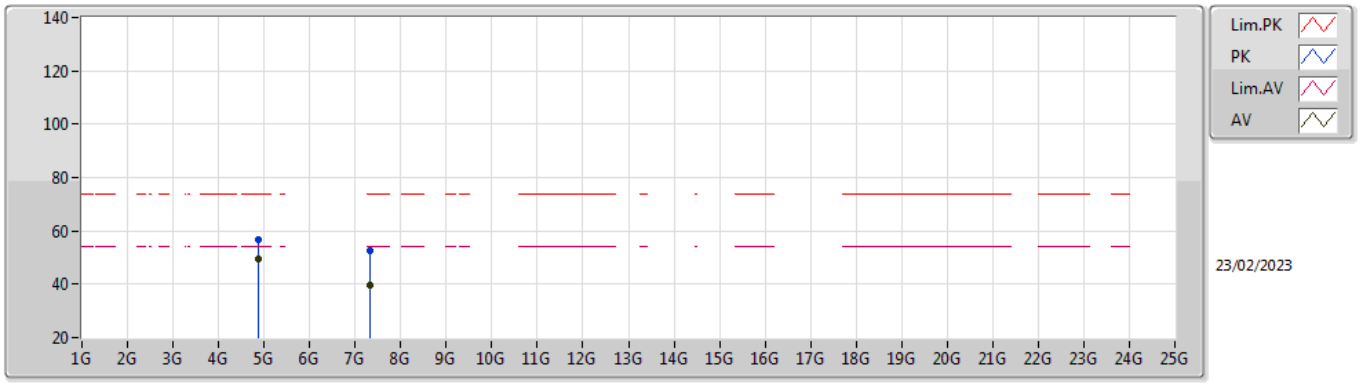


EUT Z_2TX
Setting 22
03-C-R-5

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	2.3766G	58.23	74.00	-15.77	26.05	3	Horizontal	91	1.88	-	28.20	3.98	-
AV	2.3862G	47.07	54.00	-6.93	14.88	3	Horizontal	91	1.88	-	28.20	3.99	-
PK	2.4378G	113.31	Inf	-Inf	81.07	3	Horizontal	91	1.88	-	28.20	4.04	-
AV	2.4362G	109.49	Inf	-Inf	77.25	3	Horizontal	91	1.88	-	28.20	4.04	-
PK	2.4842G	57.84	74.00	-16.16	25.35	3	Horizontal	91	1.88	-	28.41	4.08	-
AV	2.4842G	46.08	54.00	-7.92	13.59	3	Horizontal	91	1.88	-	28.41	4.08	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

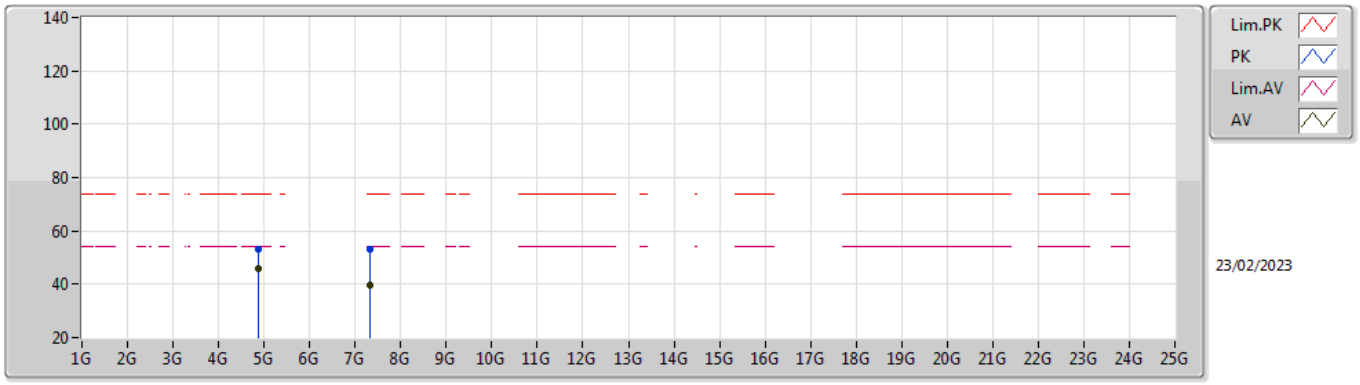


EUT Z_2TX
Setting 22
03-E-J-8

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	4.87382G	56.54	74.00	-17.46	51.30	3	Vertical	272	2.17	-	33.60	6.54	34.90
AV	4.874G	49.23	54.00	-4.77	43.99	3	Vertical	272	2.17	-	33.60	6.54	34.90
PK	7.323G	52.65	74.00	-21.35	42.15	3	Vertical	189	1.80	-	36.95	8.70	35.15
AV	7.32558G	39.47	54.00	-14.53	28.97	3	Vertical	189	1.80	-	36.95	8.70	35.15

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

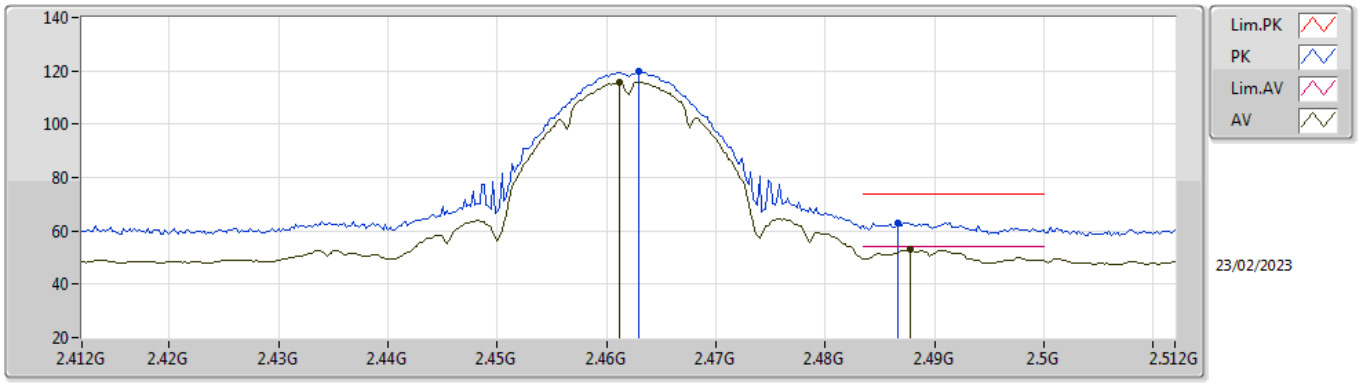


EUT Z_2TX
Setting 22
03-E-J-8

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	4.874G	53.29	74.00	-20.71	48.05	3	Horizontal	6	1.15	-	33.60	6.54	34.90
AV	4.87394G	45.98	54.00	-8.02	40.74	3	Horizontal	6	1.15	-	33.60	6.54	34.90
PK	7.32384G	53.35	74.00	-20.65	42.85	3	Horizontal	278	1.80	-	36.95	8.70	35.15
AV	7.31892G	39.46	54.00	-14.54	28.97	3	Horizontal	278	1.80	-	36.94	8.70	35.15

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

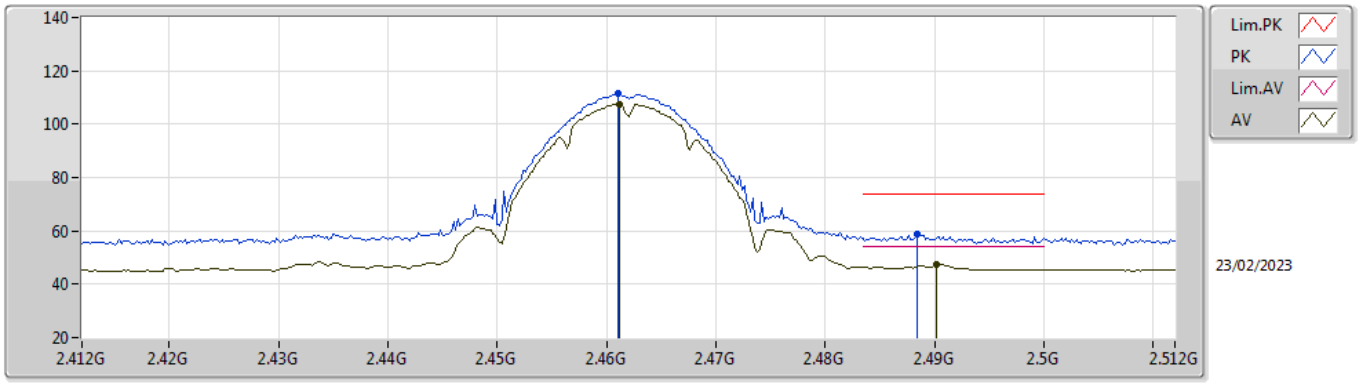


EUT Z_2TX
Setting 20
03-C-J-8

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	2.463G	119.76	Inf	-Inf	87.35	3	Vertical	300	1.83	-	28.35	4.06	-
AV	2.4612G	115.82	Inf	-Inf	83.42	3	Vertical	300	1.83	-	28.34	4.06	-
PK	2.4866G	63.06	74.00	-10.94	30.52	3	Vertical	300	1.83	-	28.45	4.09	-
AV	2.4878G	52.91	54.00	-1.09	20.37	3	Vertical	300	1.83	-	28.45	4.09	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

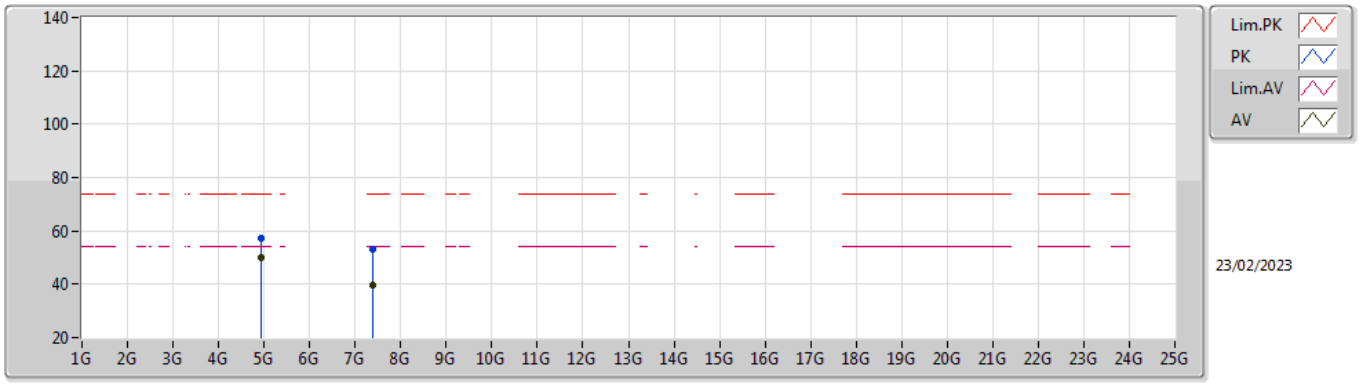


EUT Z_2TX
Setting 20
03-C-R-5

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	2.461G	111.47	Inf	-Inf	79.14	3	Horizontal	89	1.88	-	28.27	4.06	-
AV	2.4612G	107.66	Inf	-Inf	75.33	3	Horizontal	89	1.88	-	28.27	4.06	-
PK	2.4884G	58.95	74.00	-15.05	26.43	3	Horizontal	89	1.88	-	28.43	4.09	-
AV	2.4902G	47.29	54.00	-6.71	14.76	3	Horizontal	89	1.88	-	28.44	4.09	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

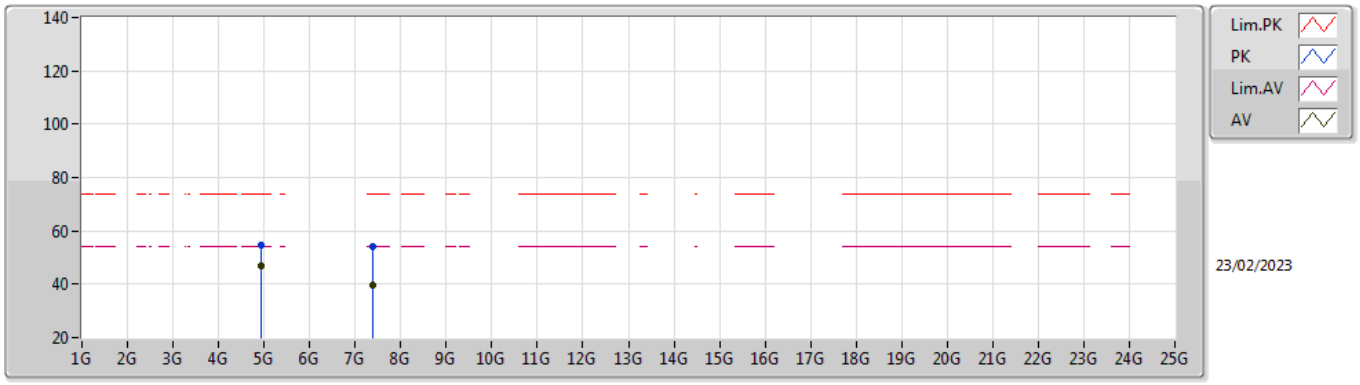


EUT Z_2TX
Setting 20
03-C-J-8

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	4.92406G	57.50	74.00	-16.50	52.08	3	Vertical	281	2.61	-	33.75	6.56	34.89
AV	4.924G	50.00	54.00	-4.00	44.58	3	Vertical	281	2.61	-	33.75	6.56	34.89
PK	7.37934G	53.20	74.00	-20.80	42.67	3	Vertical	197	2.12	-	37.00	8.70	35.17
AV	7.39392G	39.85	54.00	-14.15	29.33	3	Vertical	197	2.12	-	37.00	8.70	35.18

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

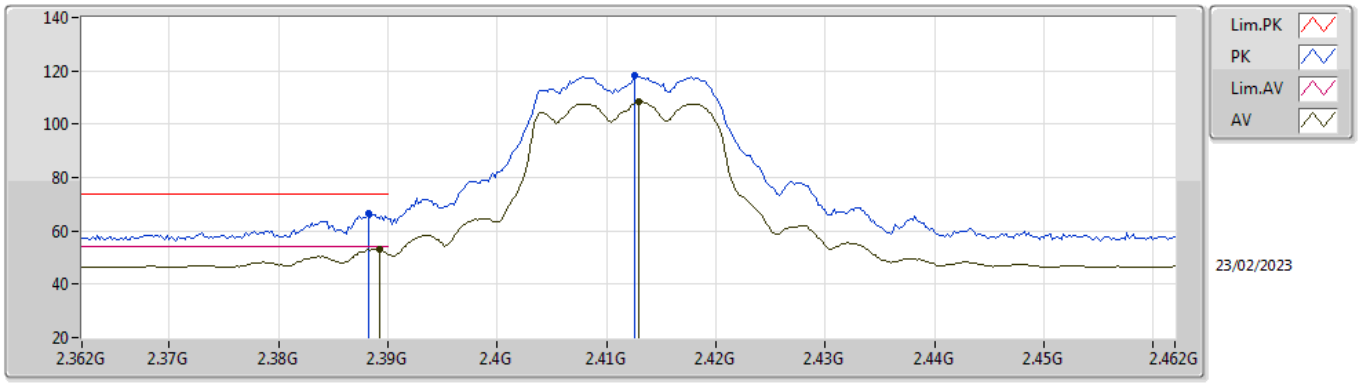


EUT Z_2TX
Setting 20
03-C-J-8

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	4.924G	54.66	74.00	-19.34	49.24	3	Horizontal	12	1.02	-	33.75	6.56	34.89
AV	4.92394G	47.08	54.00	-6.92	41.66	3	Horizontal	12	1.02	-	33.75	6.56	34.89
PK	7.38852G	53.94	74.00	-20.06	43.42	3	Horizontal	177	1.80	-	37.00	8.70	35.18
AV	7.39584G	39.87	54.00	-14.13	29.35	3	Horizontal	177	1.80	-	37.00	8.70	35.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

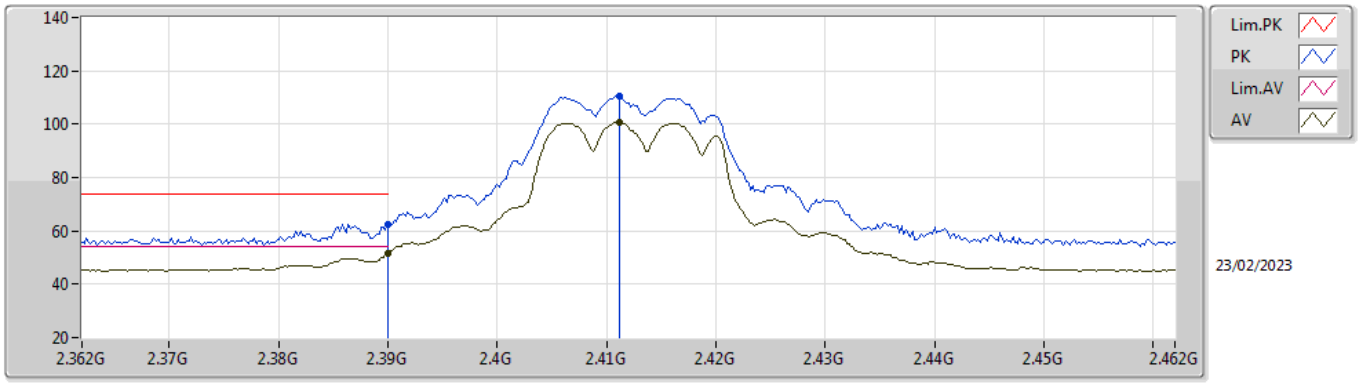


EUT Z_2TX
Setting 17.5
03-C-J-8

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	2.3882G	66.37	74.00	-7.63	34.13	3	Vertical	317	1.81	-	28.25	3.99	-
AV	2.3892G	52.98	54.00	-1.02	20.73	3	Vertical	317	1.81	-	28.26	3.99	-
PK	2.4126G	118.18	Inf	-Inf	85.87	3	Vertical	317	1.81	-	28.30	4.01	-
AV	2.413G	108.40	Inf	-Inf	76.09	3	Vertical	317	1.81	-	28.30	4.01	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

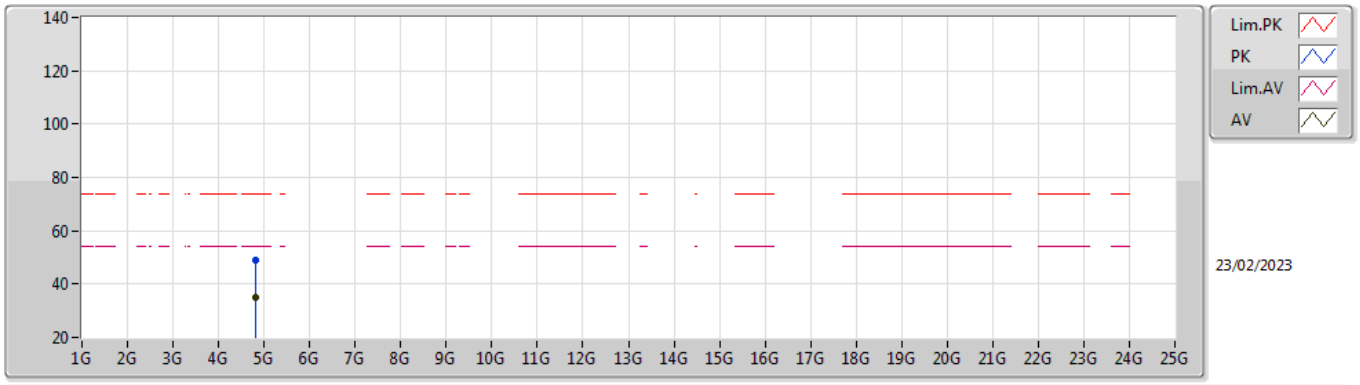


EUT Z_2TX
Setting 17.5
03-C-R-5

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	2.39G	62.61	74.00	-11.39	30.42	3	Horizontal	103	1.92	-	28.20	3.99	-
AV	2.39G	51.57	54.00	-2.43	19.38	3	Horizontal	103	1.92	-	28.20	3.99	-
PK	2.4112G	110.46	Inf	-Inf	78.25	3	Horizontal	103	1.92	-	28.20	4.01	-
AV	2.4112G	100.86	Inf	-Inf	68.65	3	Horizontal	103	1.92	-	28.20	4.01	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

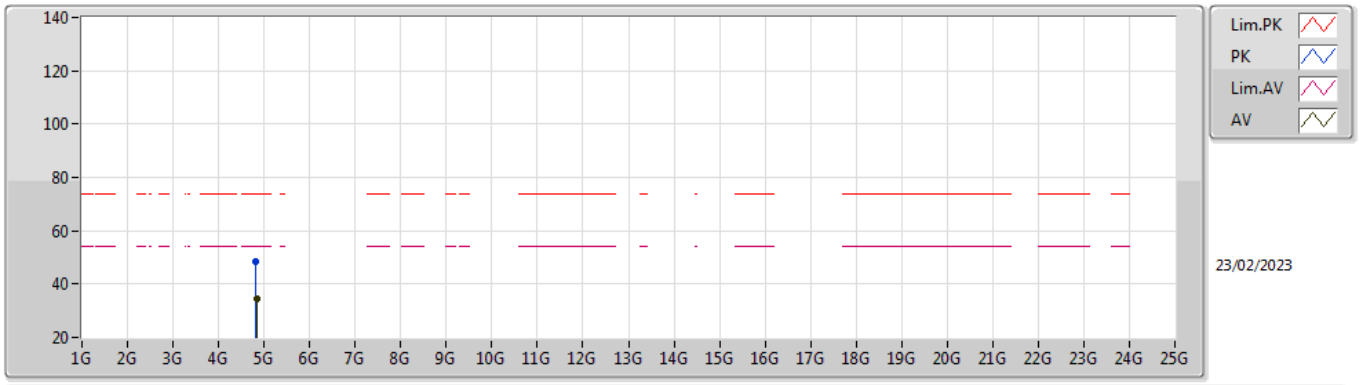


EUT Z_2TX
Setting 17.5
03-C-J-8

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	4.82562G	48.74	74.00	-25.26	43.78	3	Vertical	208	1.99	-	33.35	6.51	34.90
AV	4.82796G	35.04	54.00	-18.96	30.06	3	Vertical	208	1.99	-	33.37	6.51	34.90

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

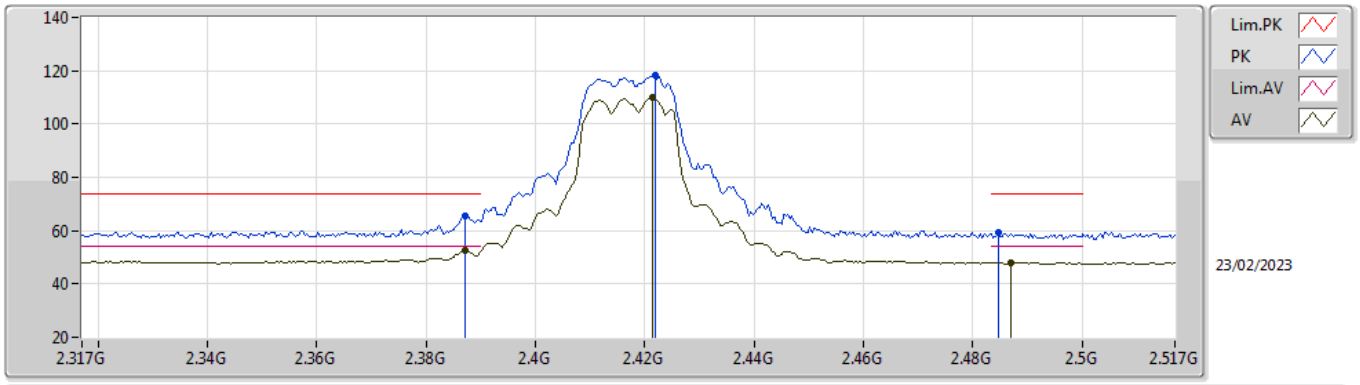


EUT Z_2TX
Setting 17.5
03-C-J-8

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	4.82754G	48.24	74.00	-25.76	43.26	3	Horizontal	360	1.10	-	33.37	6.51	34.90
AV	4.83306G	34.72	54.00	-19.28	29.70	3	Horizontal	360	1.10	-	33.40	6.52	34.90

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

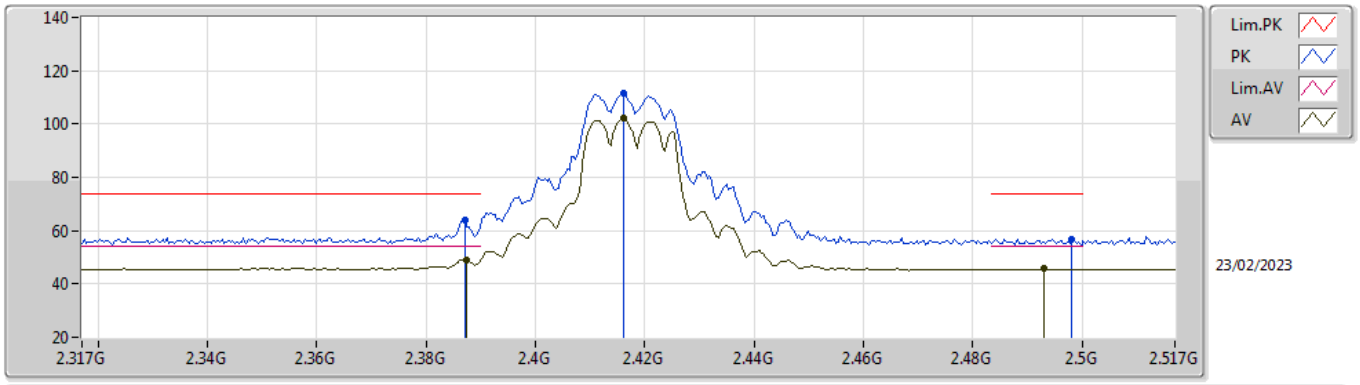


EUT Z_2TX
Setting 19
06-H-G-4

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	2.387G	65.67	74.00	-8.33	34.14	3	Vertical	297	1.57	-	27.65	3.88	-
AV	2.387G	52.39	54.00	-1.61	20.86	3	Vertical	297	1.57	-	27.65	3.88	-
PK	2.4218G	118.20	Inf	-Inf	86.68	3	Vertical	297	1.57	-	27.60	3.92	-
AV	2.4214G	109.77	Inf	-Inf	78.25	3	Vertical	297	1.57	-	27.60	3.92	-
PK	2.4846G	59.50	74.00	-14.50	27.92	3	Vertical	297	1.57	-	27.60	3.98	-
AV	2.487G	48.07	54.00	-5.93	16.48	3	Vertical	297	1.57	-	27.60	3.99	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

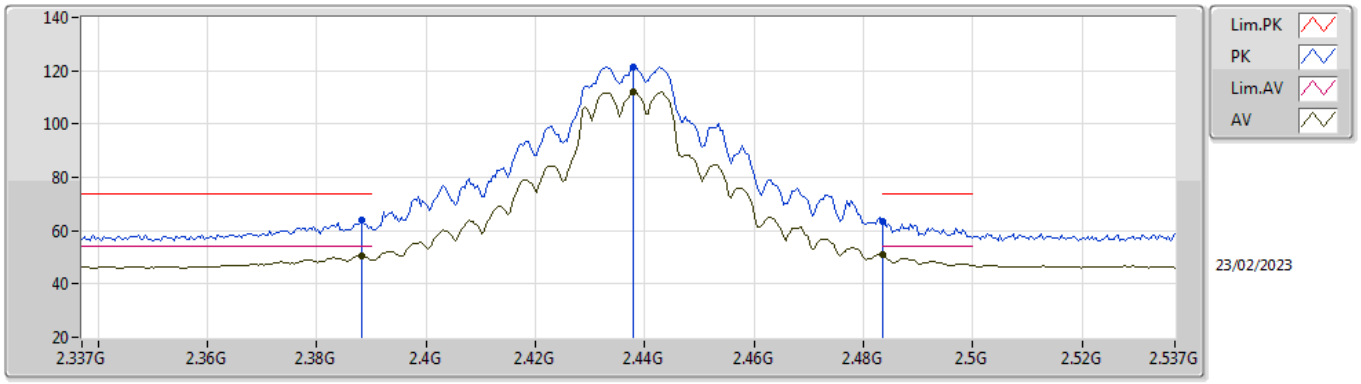


EUT Z_2TX
Setting 19
03-C-R-5

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	2.387G	63.99	74.00	-10.01	31.80	3	Horizontal	101	1.79	-	28.20	3.99	-
AV	2.3874G	48.93	54.00	-5.07	16.74	3	Horizontal	101	1.79	-	28.20	3.99	-
PK	2.4162G	111.32	Inf	-Inf	79.10	3	Horizontal	101	1.79	-	28.20	4.02	-
AV	2.4162G	102.08	Inf	-Inf	69.86	3	Horizontal	101	1.79	-	28.20	4.02	-
PK	2.4982G	56.88	74.00	-17.12	24.29	3	Horizontal	101	1.79	-	28.49	4.10	-
AV	2.493G	45.62	54.00	-8.38	13.07	3	Horizontal	101	1.79	-	28.46	4.09	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

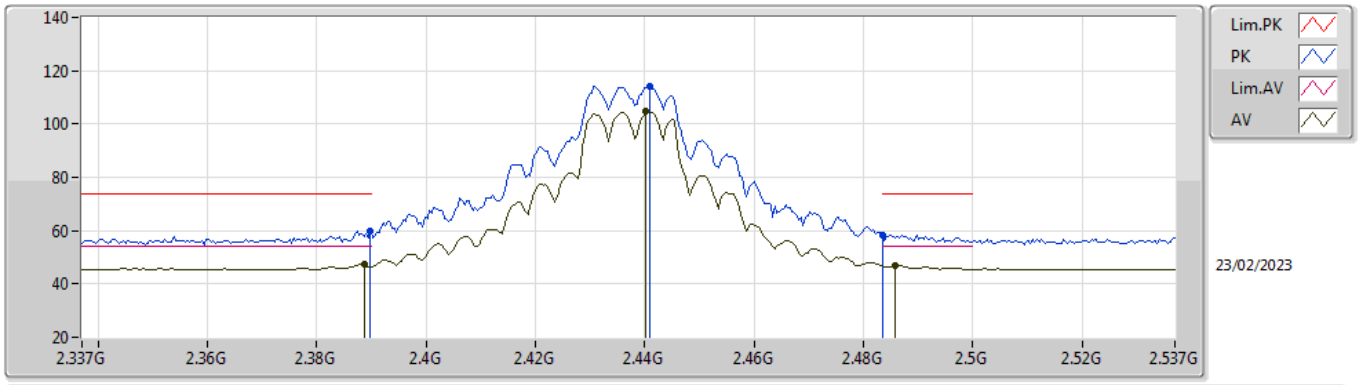


EUT Z_2TX
Setting 22
03-C-J-8

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	2.3882G	64.10	74.00	-9.90	31.86	3	Vertical	47	1.86	-	28.25	3.99	-
AV	2.3882G	50.54	54.00	-3.46	18.30	3	Vertical	47	1.86	-	28.25	3.99	-
PK	2.4378G	121.34	Inf	-Inf	89.00	3	Vertical	47	1.86	-	28.30	4.04	-
AV	2.4378G	112.19	Inf	-Inf	79.85	3	Vertical	47	1.86	-	28.30	4.04	-
PK	2.4835G	63.63	74.00	-10.37	31.12	3	Vertical	47	1.86	-	28.43	4.08	-
AV	2.4835G	50.83	54.00	-3.17	18.32	3	Vertical	47	1.86	-	28.43	4.08	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

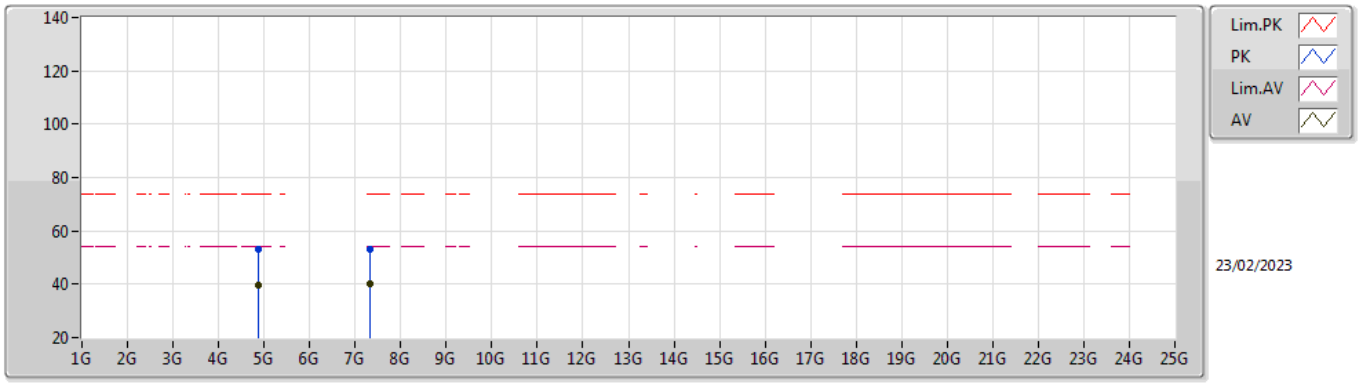


EUT Z_2TX
Setting 22
03-C-R-5

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	2.3898G	59.90	74.00	-14.10	27.71	3	Horizontal	103	1.75	-	28.20	3.99	-
AV	2.3886G	47.31	54.00	-6.69	15.12	3	Horizontal	103	1.75	-	28.20	3.99	-
PK	2.441G	114.34	Inf	-Inf	82.10	3	Horizontal	103	1.75	-	28.20	4.04	-
AV	2.4402G	104.62	Inf	-Inf	72.38	3	Horizontal	103	1.75	-	28.20	4.04	-
PK	2.4835G	58.31	74.00	-15.69	25.83	3	Horizontal	103	1.75	-	28.40	4.08	-
AV	2.4858G	47.05	54.00	-6.95	14.55	3	Horizontal	103	1.75	-	28.41	4.09	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

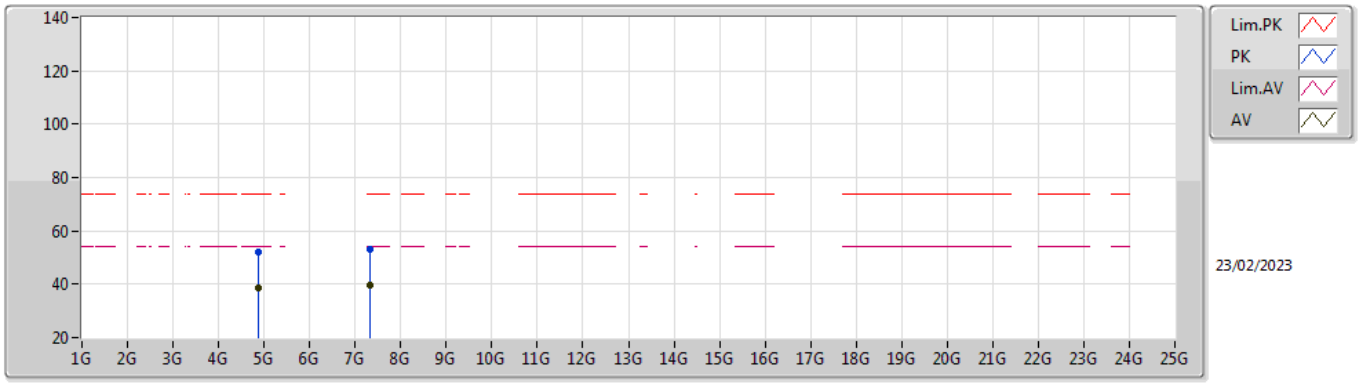


EUT Z_2TX
Setting 22
03-E-J-8

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	4.8761G	52.98	74.00	-21.02	47.73	3	Vertical	277	1.15	-	33.60	6.54	34.89
AV	4.87166G	39.81	54.00	-14.19	34.58	3	Vertical	277	1.15	-	33.59	6.54	34.90
PK	7.31682G	52.98	74.00	-21.02	42.50	3	Vertical	204	3.00	-	36.93	8.70	35.15
AV	7.3218G	39.93	54.00	-14.07	29.44	3	Vertical	204	3.00	-	36.94	8.70	35.15

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

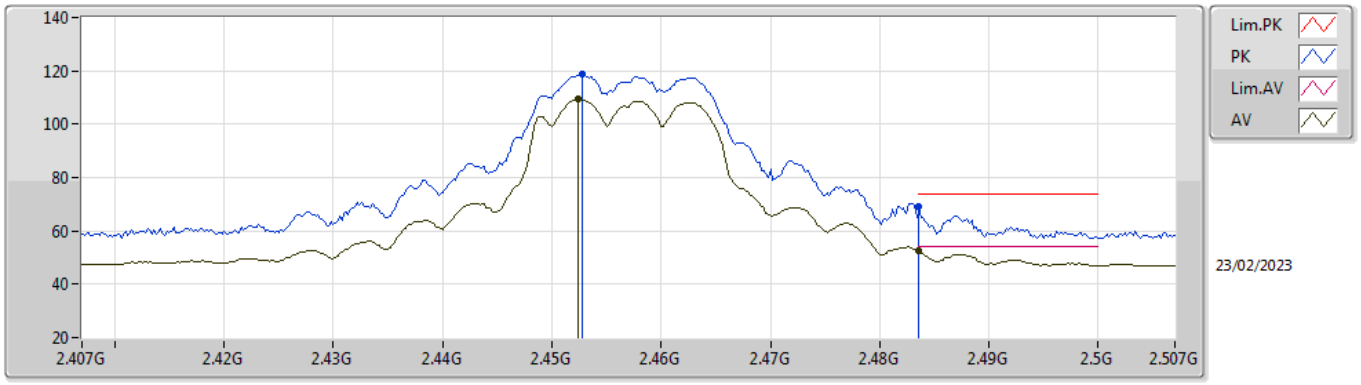


EUT Z_2TX
Setting 22
03-E-J-8

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	4.87142G	52.02	74.00	-21.98	46.79	3	Horizontal	-0	1.24	-	33.59	6.54	34.90
AV	4.87622G	38.56	54.00	-15.44	33.31	3	Horizontal	-0	1.24	-	33.60	6.54	34.89
PK	7.31826G	52.98	74.00	-21.02	42.49	3	Horizontal	24	1.80	-	36.94	8.70	35.15
AV	7.3113G	39.85	54.00	-14.15	29.37	3	Horizontal	24	1.80	-	36.92	8.70	35.14

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

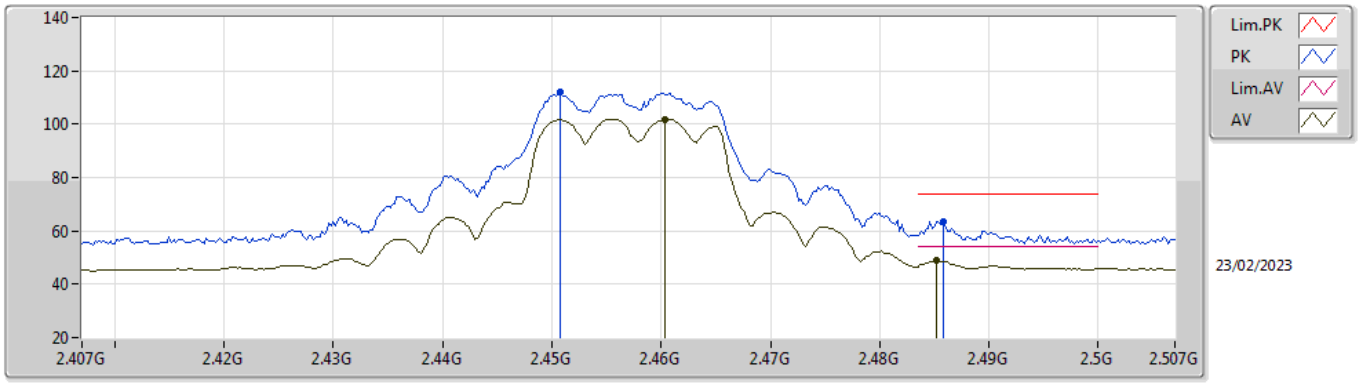


EUT Z_2TX
Setting 19
03-C-J-8

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	2.4528G	118.89	Inf	-Inf	86.53	3	Vertical	66	1.74	-	28.31	4.05	-
AV	2.4524G	109.25	Inf	-Inf	76.89	3	Vertical	66	1.74	-	28.31	4.05	-
PK	2.4836G	69.08	74.00	-4.92	36.57	3	Vertical	66	1.74	-	28.43	4.08	-
AV	2.4835G	52.47	54.00	-1.53	19.96	3	Vertical	66	1.74	-	28.43	4.08	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

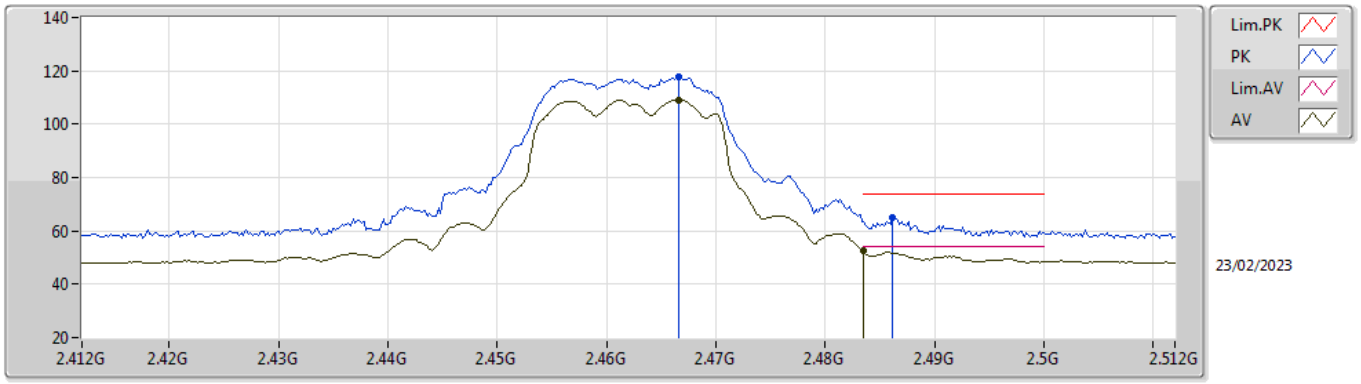


EUT Z_2TX
Setting 19
03-C-R-5

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	2.4508G	111.84	Inf	-Inf	79.59	3	Horizontal	101	1.26	-	28.20	4.05	-
AV	2.4604G	101.93	Inf	-Inf	69.61	3	Horizontal	101	1.26	-	28.26	4.06	-
PK	2.4858G	63.42	74.00	-10.58	30.92	3	Horizontal	101	1.26	-	28.41	4.09	-
AV	2.4852G	48.83	54.00	-5.17	16.33	3	Horizontal	101	1.26	-	28.41	4.09	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

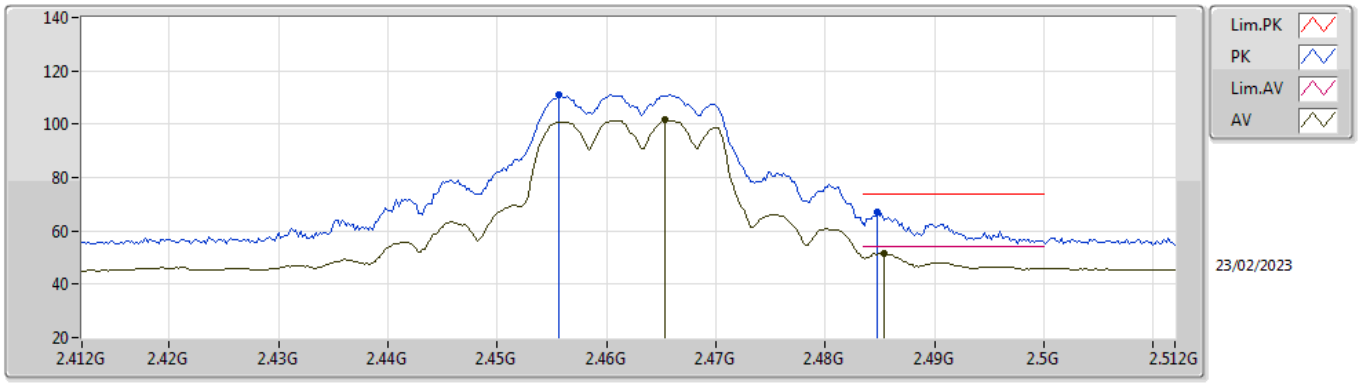


EUT Z_2TX
Setting 18.5
06-H-G-4

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	2.4666G	117.56	Inf	-Inf	85.99	3	Vertical	298	1.71	-	27.60	3.97	-	
AV	2.4666G	109.19	Inf	-Inf	77.62	3	Vertical	298	1.71	-	27.60	3.97	-	
PK	2.4862G	65.00	74.00	-9.00	33.41	3	Vertical	298	1.71	-	27.60	3.99	-	
AV	2.4835G	52.37	54.00	-1.63	20.79	3	Vertical	298	1.71	-	27.60	3.98	-	

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

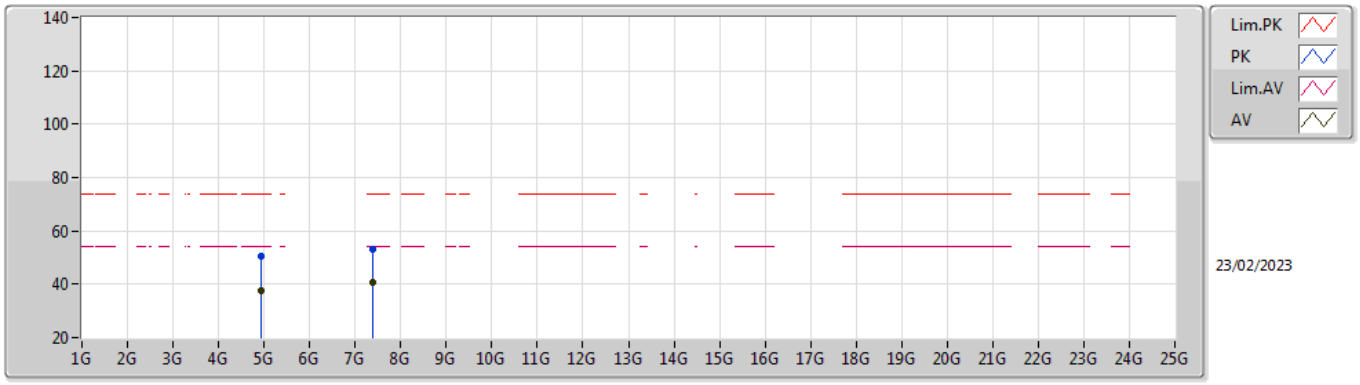


EUT Z_2TX
Setting 18.5
03-C-R-5

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	2.4556G	111.04	Inf	-Inf	78.75	3	Horizontal	102	1.67	-	28.23	4.06	-
AV	2.4654G	101.47	Inf	-Inf	69.11	3	Horizontal	102	1.67	-	28.29	4.07	-
PK	2.4848G	67.07	74.00	-6.93	34.58	3	Horizontal	102	1.67	-	28.41	4.08	-
AV	2.4854G	51.60	54.00	-2.40	19.10	3	Horizontal	102	1.67	-	28.41	4.09	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

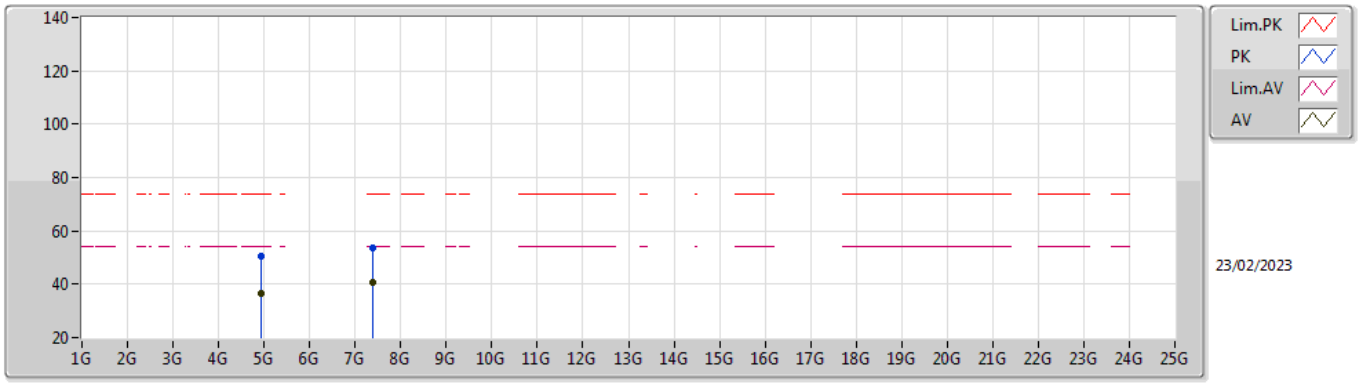


EUT Z_2TX
Setting 18.5
06-E-P-5

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	4.92124G	50.30	74.00	-23.70	44.89	3	Vertical	211	1.80	-	33.74	6.56	34.89
AV	4.92616G	37.36	54.00	-16.64	31.94	3	Vertical	211	1.80	-	33.75	6.56	34.89
PK	7.38846G	53.28	74.00	-20.72	42.76	3	Vertical	298	1.80	-	37.00	8.70	35.18
AV	7.40052G	40.53	54.00	-13.47	30.01	3	Vertical	298	1.80	-	37.00	8.70	35.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



EUT Z_2TX
Setting 18.5
06-E-P-5

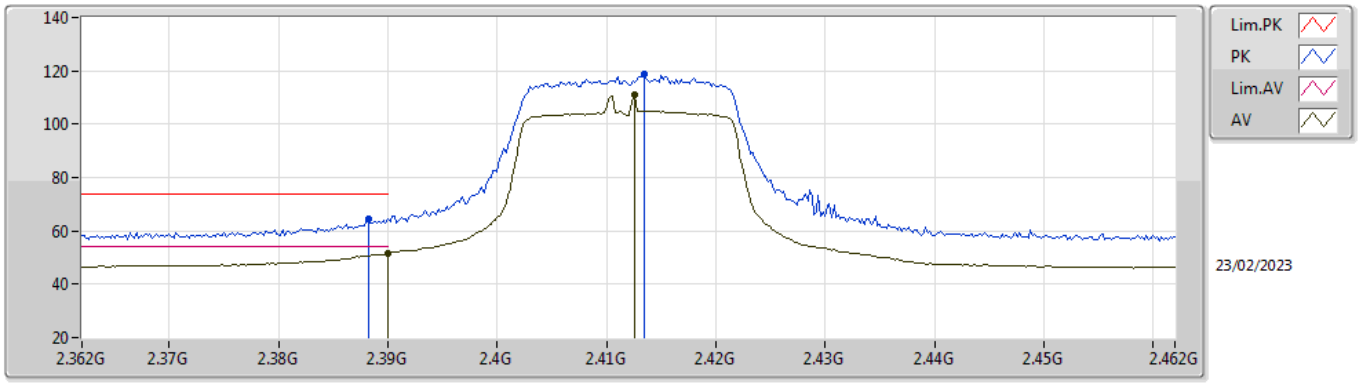
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92724G	50.40	74.00	-23.60	44.98	3	Horizontal	0	1.25	-	33.75	6.56	34.89
AV	4.92124G	36.78	54.00	-17.22	31.37	3	Horizontal	0	1.25	-	33.74	6.56	34.89
PK	7.37844G	53.61	74.00	-20.39	43.08	3	Horizontal	164	1.80	-	37.00	8.70	35.17
AV	7.39878G	40.55	54.00	-13.45	30.03	3	Horizontal	164	1.80	-	37.00	8.70	35.18

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	2.39G	52.96	54.00	-1.04	3	Vertical	300	1.96	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

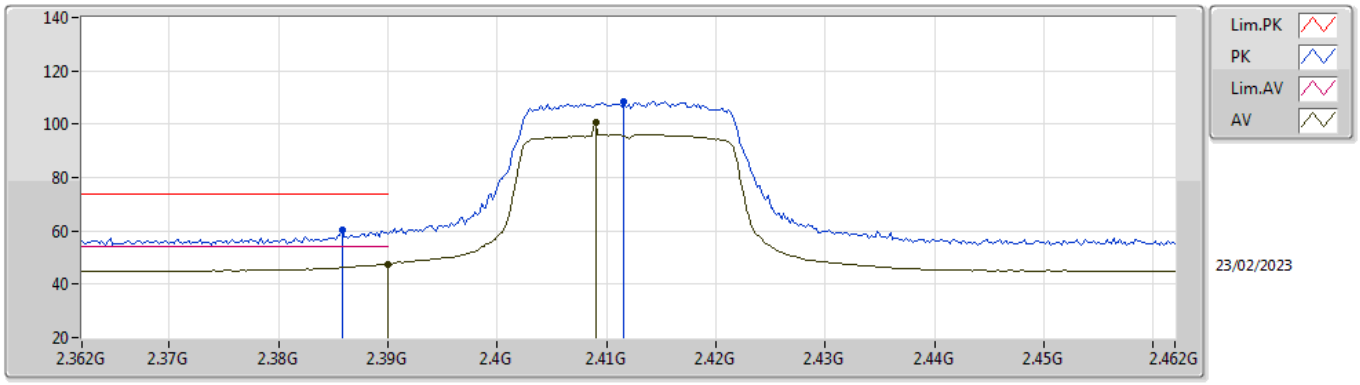


EUT Z_2TX
Setting 19
03-C-J-8

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	2.3882G	64.39	74.00	-9.61	32.15	3	Vertical	295	1.72	-	28.25	3.99	-
AV	2.39G	51.67	54.00	-2.33	19.42	3	Vertical	295	1.72	-	28.26	3.99	-
PK	2.4134G	118.71	Inf	-Inf	86.40	3	Vertical	295	1.72	-	28.30	4.01	-
AV	2.4126G	110.87	Inf	-Inf	78.56	3	Vertical	295	1.72	-	28.30	4.01	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

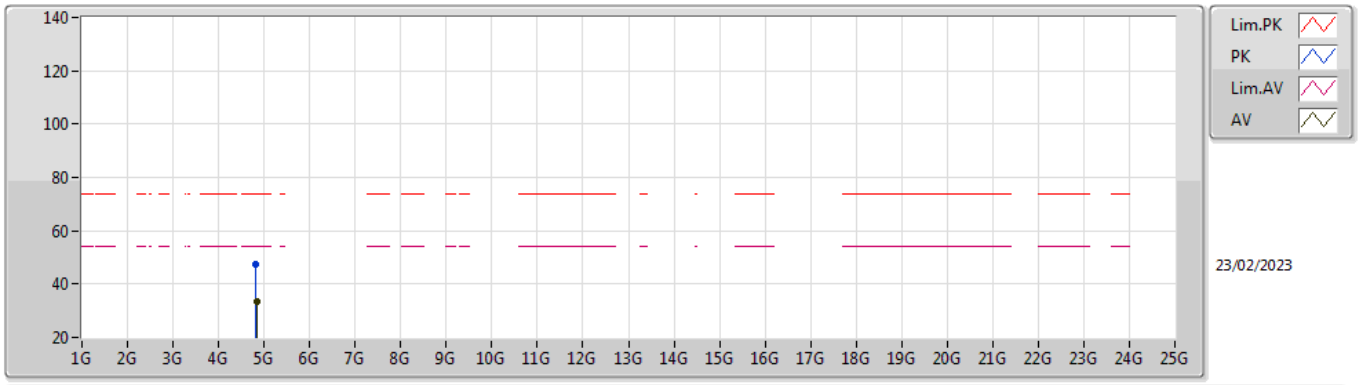


EUT Z_2TX
Setting 19
03-C-R-5

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	2.3858G	60.29	74.00	-13.71	28.10	3	Horizontal	90	1.96	-	28.20	3.99	-
AV	2.39G	47.67	54.00	-6.33	15.48	3	Horizontal	90	1.96	-	28.20	3.99	-
PK	2.4116G	108.64	Inf	-Inf	76.43	3	Horizontal	90	1.96	-	28.20	4.01	-
AV	2.409G	100.44	Inf	-Inf	68.23	3	Horizontal	90	1.96	-	28.20	4.01	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

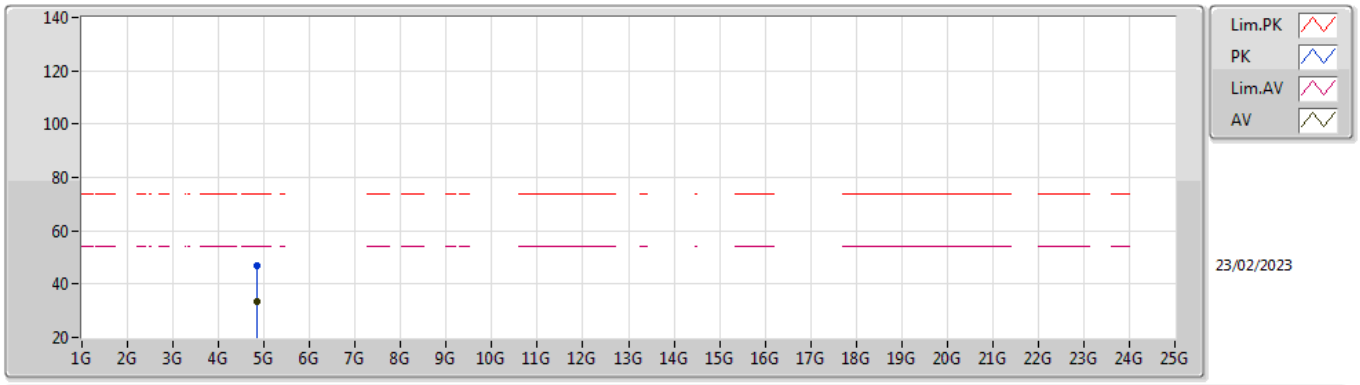


EUT Z_2TX
Setting 19
03-C-J-8

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	4.82484G	47.17	74.00	-26.83	42.21	3	Vertical	256	1.80	-	33.35	6.51	34.90
AV	4.8333G	33.66	54.00	-20.34	28.64	3	Vertical	256	1.80	-	33.40	6.52	34.90

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

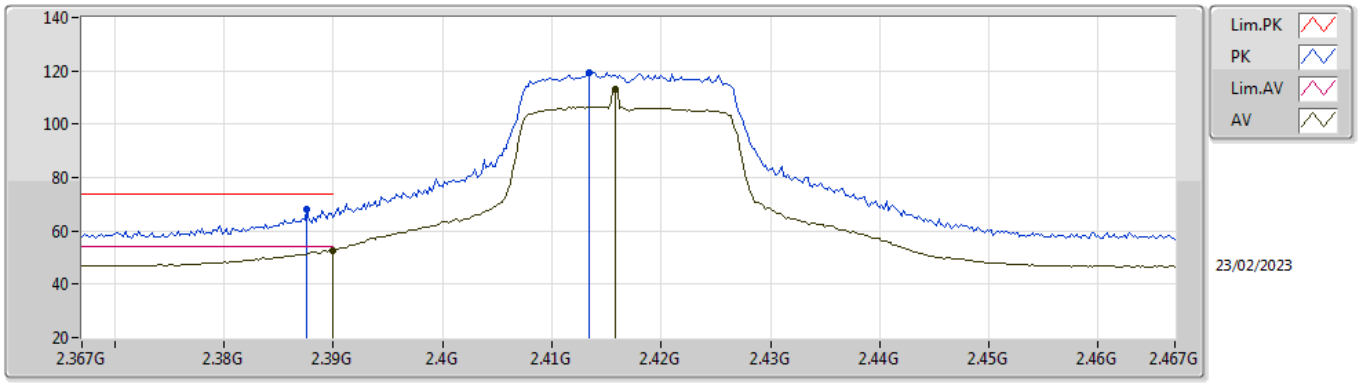


EUT Z_2TX
Setting 19
03-C-J-8

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	4.83642G	47.08	74.00	-26.92	42.04	3	Horizontal	24	1.06	-	33.42	6.52	34.90
AV	4.83174G	33.69	54.00	-20.31	28.68	3	Horizontal	24	1.06	-	33.39	6.52	34.90

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

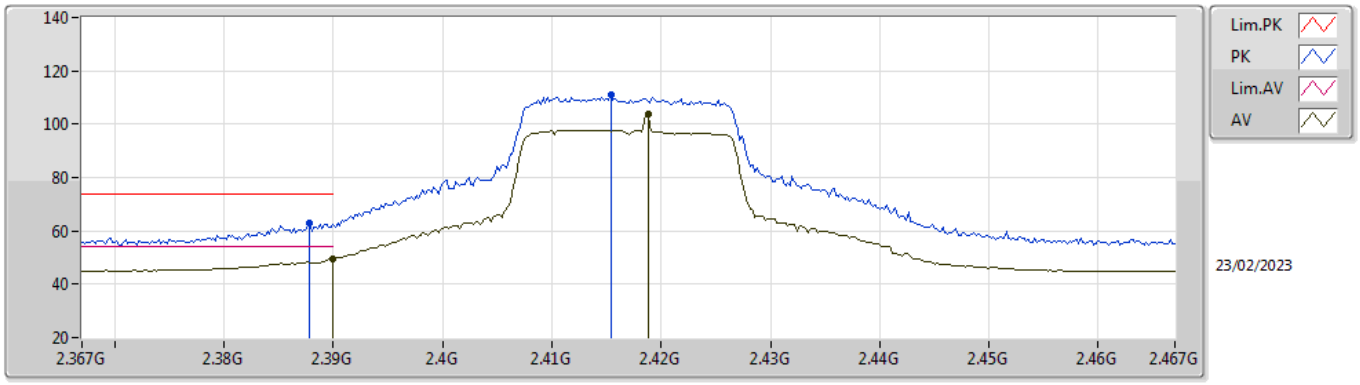


EUT Z_2TX
Setting 21
03-C-E-5

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	2.3876G	67.94	74.00	-6.06	35.70	3	Vertical	300	1.71	-	28.25	3.99	-
AV	2.39G	52.65	54.00	-1.35	20.40	3	Vertical	300	1.71	-	28.26	3.99	-
PK	2.4134G	119.36	Inf	-Inf	87.05	3	Vertical	300	1.71	-	28.30	4.01	-
AV	2.4158G	112.91	Inf	-Inf	80.59	3	Vertical	300	1.71	-	28.30	4.02	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

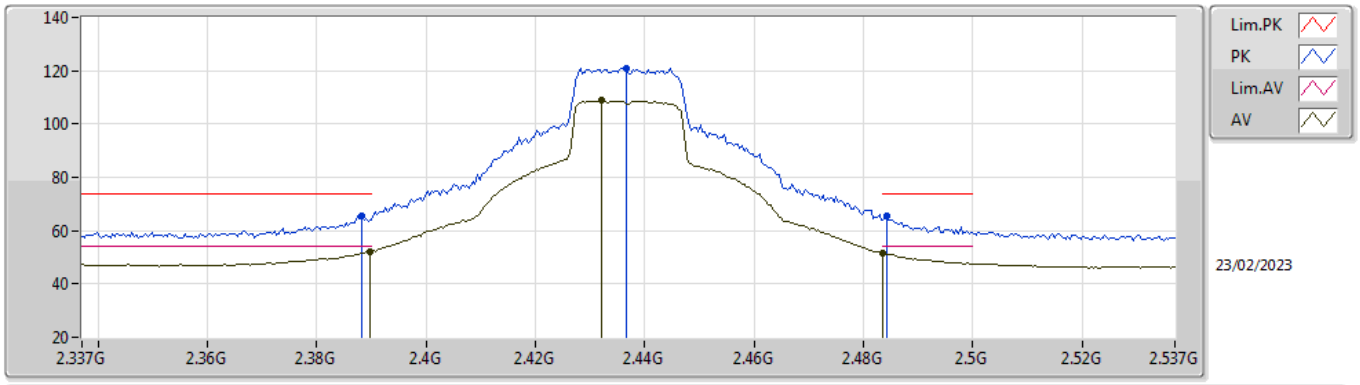


EUT Z_2TX
Setting 21
03-C-R-5

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	2.3878G	62.80	74.00	-11.20	30.61	3	Horizontal	89	1.98	-	28.20	3.99	-
AV	2.39G	49.34	54.00	-4.66	17.15	3	Horizontal	89	1.98	-	28.20	3.99	-
PK	2.4154G	110.92	Inf	-Inf	78.70	3	Horizontal	89	1.98	-	28.20	4.02	-
AV	2.4188G	103.81	Inf	-Inf	71.59	3	Horizontal	89	1.98	-	28.20	4.02	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

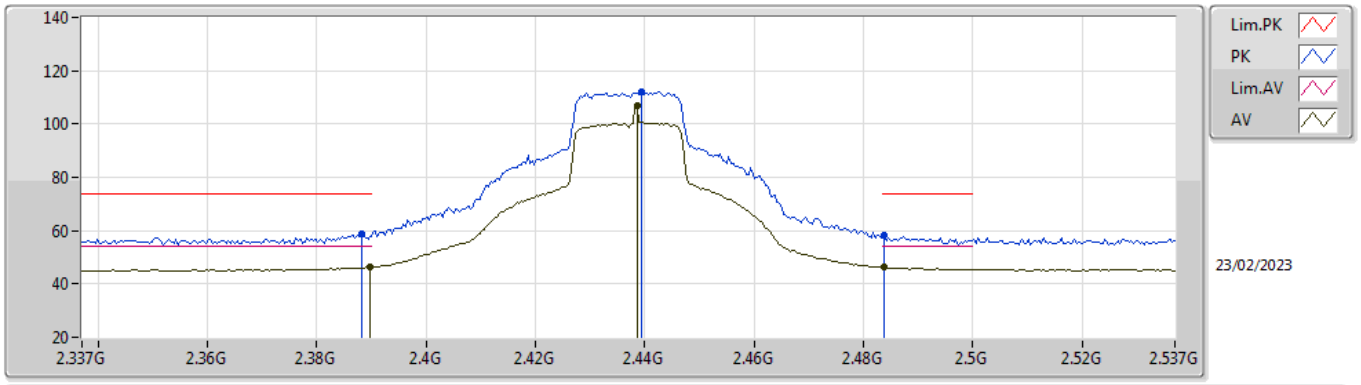


EUT Z_2TX
Setting 24
03-C-J-8

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	2.3882G	65.59	74.00	-8.41	33.35	3	Vertical	296	2.11	-	28.25	3.99	-
AV	2.3898G	52.30	54.00	-1.70	20.05	3	Vertical	296	2.11	-	28.26	3.99	-
PK	2.4366G	121.00	Inf	-Inf	88.66	3	Vertical	296	2.11	-	28.30	4.04	-
AV	2.4322G	108.90	Inf	-Inf	76.57	3	Vertical	296	2.11	-	28.30	4.03	-
PK	2.4842G	65.35	74.00	-8.65	32.83	3	Vertical	296	2.11	-	28.44	4.08	-
AV	2.4835G	51.58	54.00	-2.42	19.07	3	Vertical	296	2.11	-	28.43	4.08	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

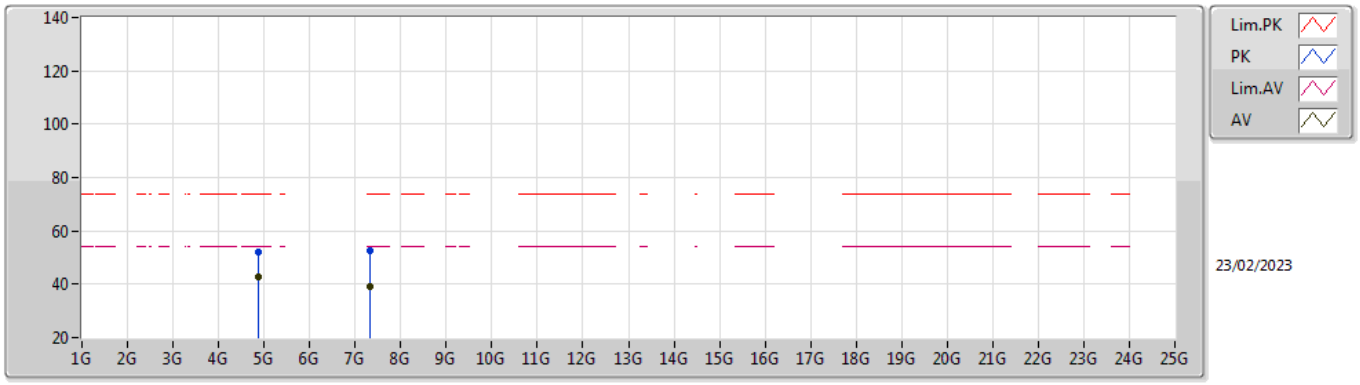


EUT Z_2TX
Setting 24
03-C-R-5

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	2.3882G	58.72	74.00	-15.28	26.53	3	Horizontal	88	1.93	-	28.20	3.99	-
AV	2.3898G	46.29	54.00	-7.71	14.10	3	Horizontal	88	1.93	-	28.20	3.99	-
PK	2.4394G	112.17	Inf	-Inf	79.93	3	Horizontal	88	1.93	-	28.20	4.04	-
AV	2.4386G	106.76	Inf	-Inf	74.52	3	Horizontal	88	1.93	-	28.20	4.04	-
PK	2.4838G	58.21	74.00	-15.79	25.73	3	Horizontal	88	1.93	-	28.40	4.08	-
AV	2.4838G	46.14	54.00	-7.86	13.66	3	Horizontal	88	1.93	-	28.40	4.08	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

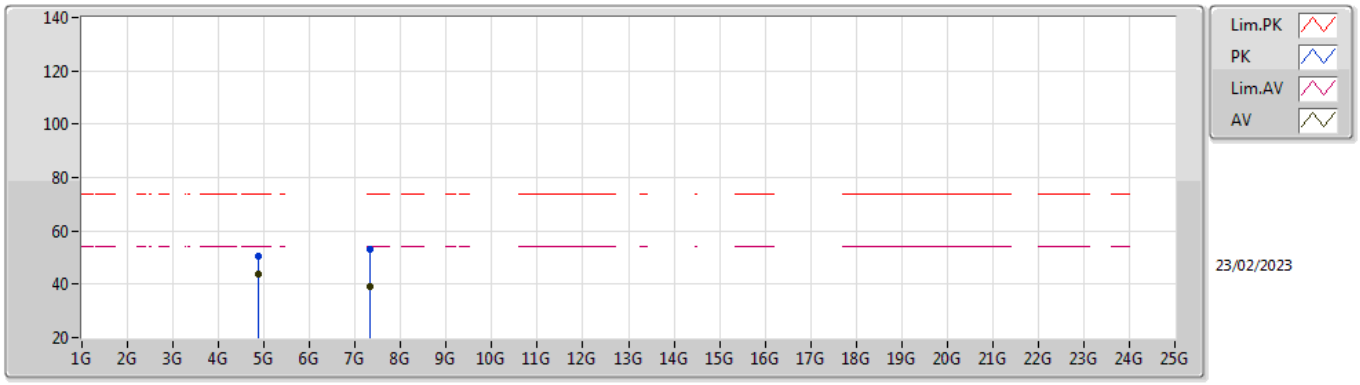


EUT Z_2TX
Setting 24
03-C-J-8

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	4.87406G	52.17	74.00	-21.83	46.93	3	Vertical	219	1.80	-	33.60	6.54	34.90
AV	4.87442G	42.56	54.00	-11.44	37.32	3	Vertical	219	1.80	-	33.60	6.54	34.90
PK	7.31196G	52.84	74.00	-21.16	42.36	3	Vertical	344	1.80	-	36.92	8.70	35.14
AV	7.31916G	39.12	54.00	-14.88	28.63	3	Vertical	344	1.80	-	36.94	8.70	35.15

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

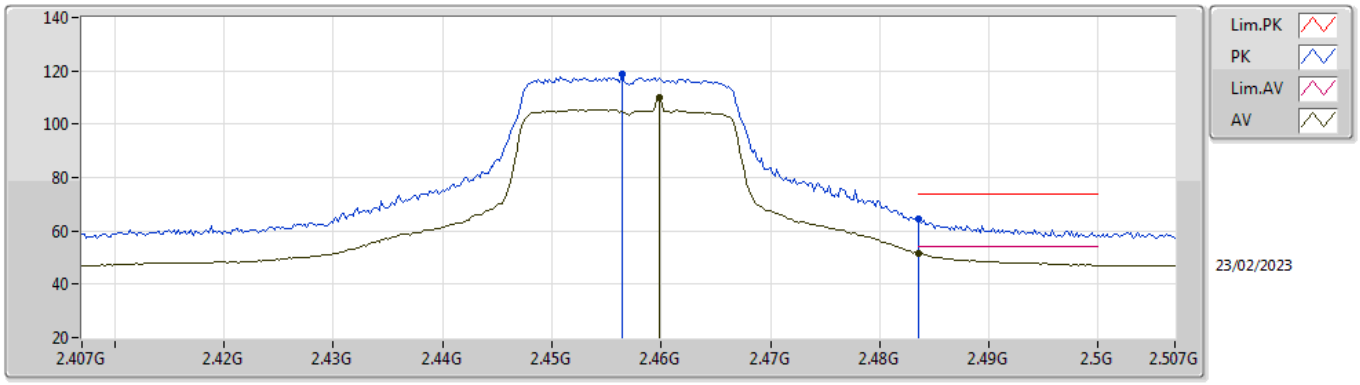


EUT Z_2TX
Setting 24
03-C-E-5

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	4.87384G	50.32	74.00	-23.68	45.08	3	Horizontal	36	2.50	-	33.60	6.54	34.90
AV	4.8736G	43.64	54.00	-10.36	38.41	3	Horizontal	36	2.50	-	33.59	6.54	34.90
PK	7.31124G	53.24	74.00	-20.76	42.76	3	Horizontal	240	3.00	-	36.92	8.70	35.14
AV	7.32522G	39.05	54.00	-14.95	28.55	3	Horizontal	240	3.00	-	36.95	8.70	35.15

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

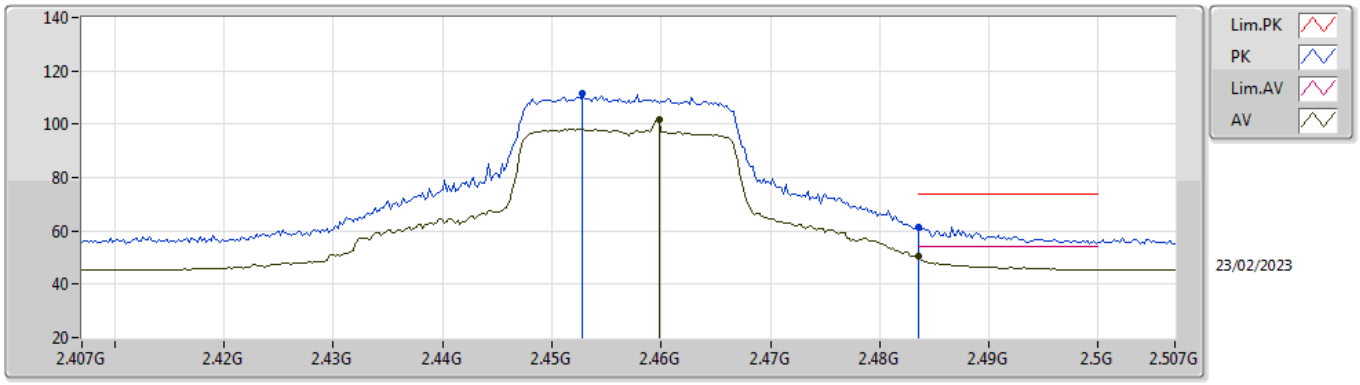


EUT Z_2TX
Setting 21
03-C-E-5

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	2.4564G	118.81	Inf	-Inf	86.42	3	Vertical	71	1.75	-	28.33	4.06	-
AV	2.4598G	109.75	Inf	-Inf	77.35	3	Vertical	71	1.75	-	28.34	4.06	-
PK	2.4835G	64.43	74.00	-9.57	31.92	3	Vertical	71	1.75	-	28.43	4.08	-
AV	2.4835G	51.70	54.00	-2.30	19.19	3	Vertical	71	1.75	-	28.43	4.08	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

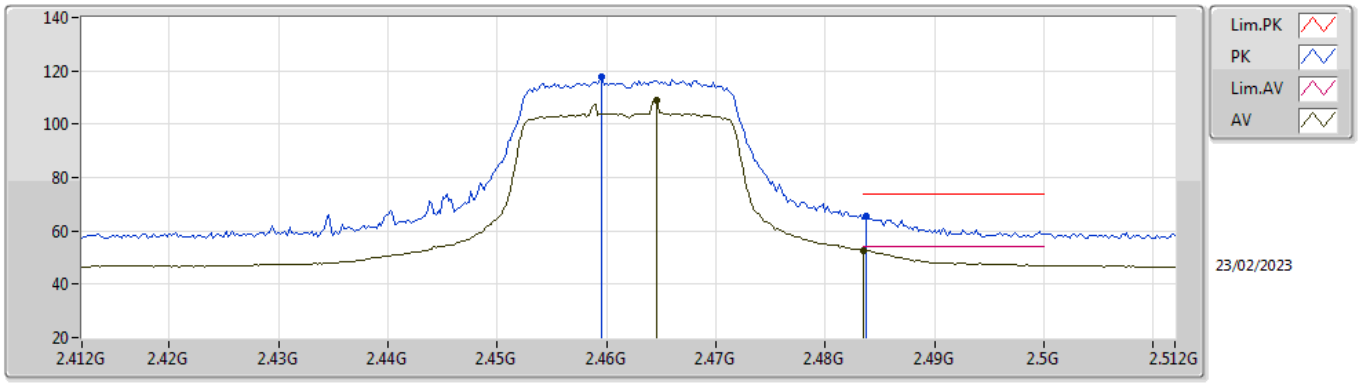


EUT Z_2TX
Setting 21
03-C-R-5

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	2.4528G	111.36	Inf	-Inf	79.09	3	Horizontal	89	1.92	-	28.22	4.05	-
AV	2.4598G	101.70	Inf	-Inf	69.38	3	Horizontal	89	1.92	-	28.26	4.06	-
PK	2.4835G	61.40	74.00	-12.60	28.92	3	Horizontal	89	1.92	-	28.40	4.08	-
AV	2.4835G	50.37	54.00	-3.63	17.89	3	Horizontal	89	1.92	-	28.40	4.08	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

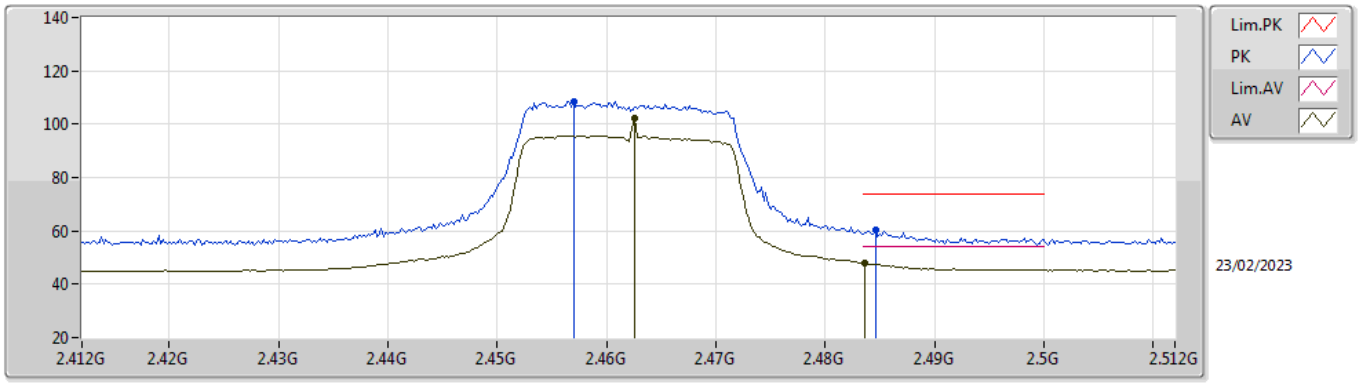


EUT Z_2TX
Setting 19
03-C-J-8

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	2.4596G	117.57	Inf	-Inf	85.17	3	Vertical	303	1.82	-	28.34	4.06	-
AV	2.4646G	109.01	Inf	-Inf	76.59	3	Vertical	303	1.82	-	28.36	4.06	-
PK	2.4838G	65.27	74.00	-8.73	32.75	3	Vertical	303	1.82	-	28.44	4.08	-
AV	2.4835G	52.44	54.00	-1.56	19.93	3	Vertical	303	1.82	-	28.43	4.08	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

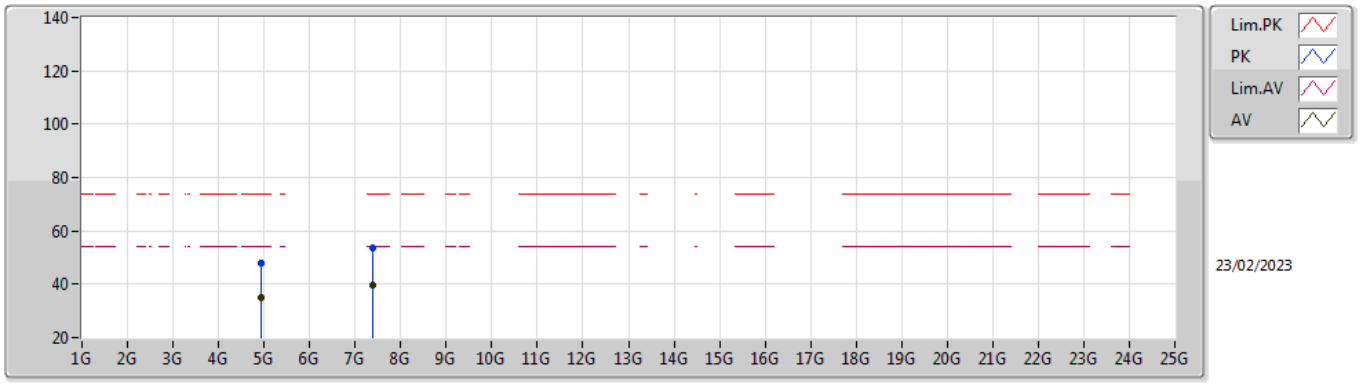


EUT Z_2TX
Setting 19
03-C-R-5

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	2.457G	108.46	Inf	-Inf	76.16	3	Horizontal	87	1.90	-	28.24	4.06	-
AV	2.4626G	102.18	Inf	-Inf	69.84	3	Horizontal	87	1.90	-	28.28	4.06	-
PK	2.4846G	60.39	74.00	-13.61	27.90	3	Horizontal	87	1.90	-	28.41	4.08	-
AV	2.4836G	47.85	54.00	-6.15	15.37	3	Horizontal	87	1.90	-	28.40	4.08	-

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

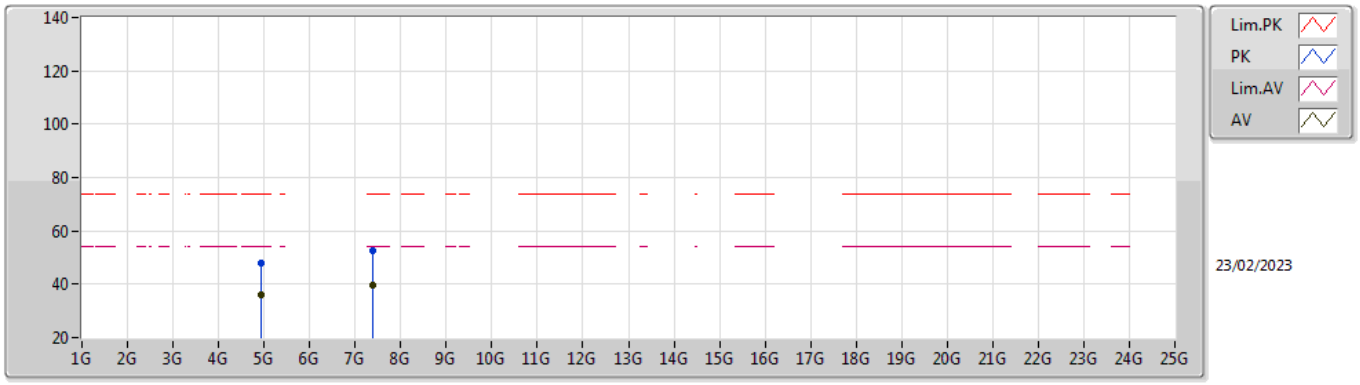


EUT Z_2TX
Setting 19
03-C-E-5

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	4.93144G	48.13	74.00	-25.87	42.69	3	Vertical	219	1.55	-	33.76	6.57	34.89
AV	4.92334G	34.87	54.00	-19.13	29.45	3	Vertical	219	1.55	-	33.75	6.56	34.89
PK	7.3902G	53.47	74.00	-20.53	42.95	3	Vertical	171	1.82	-	37.00	8.70	35.18
AV	7.40076G	39.53	54.00	-14.47	29.01	3	Vertical	171	1.82	-	37.00	8.70	35.18

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

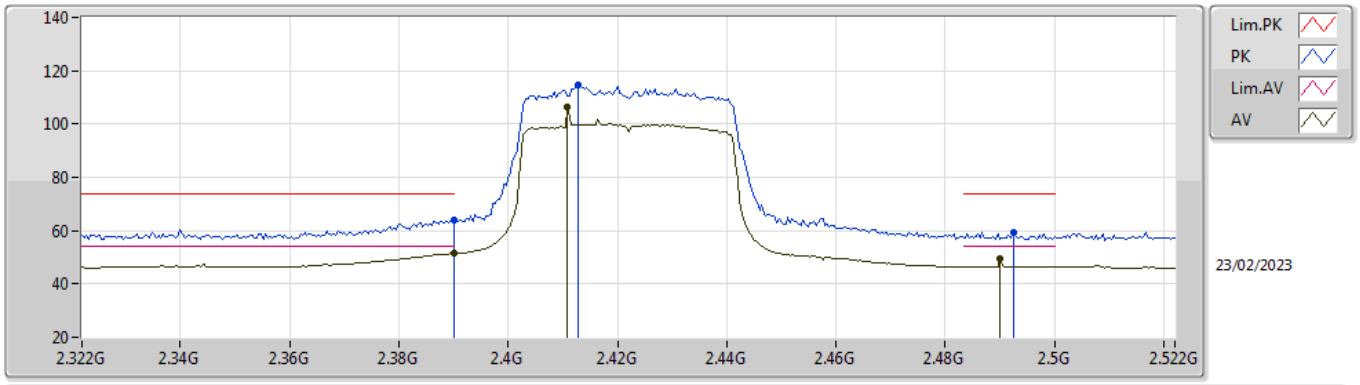


EUT Z_2TX
Setting 19
03-C-E-5

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	4.93858G	47.85	74.00	-26.15	42.39	3	Horizontal	0	1.05	-	33.78	6.57	34.89
AV	4.9243G	36.26	54.00	-17.74	30.84	3	Horizontal	0	1.05	-	33.75	6.56	34.89
PK	7.3857G	52.61	74.00	-21.39	42.09	3	Horizontal	148	2.08	-	37.00	8.70	35.18
AV	7.39596G	39.56	54.00	-14.44	29.04	3	Horizontal	148	2.08	-	37.00	8.70	35.18

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

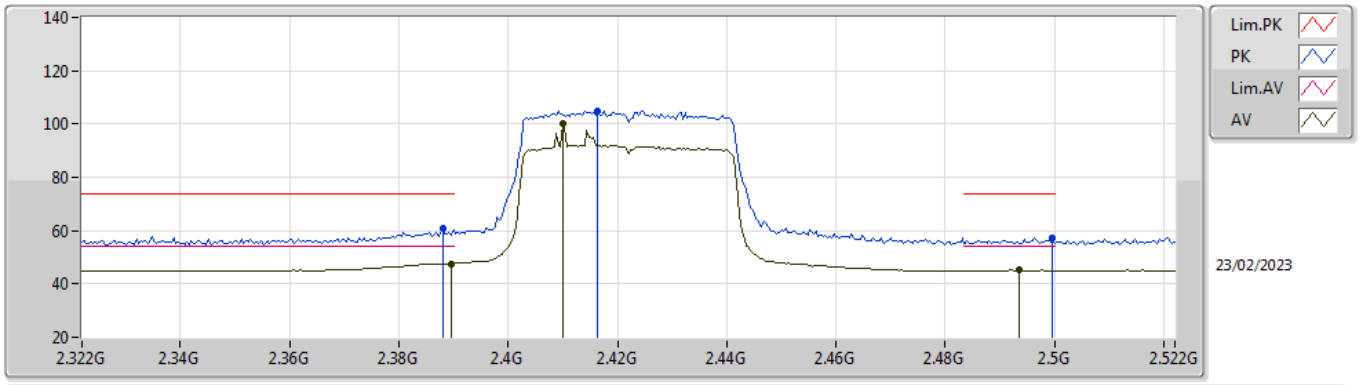


EUT Z_2TX
Setting 18
03-C-E-5

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	2.39G	64.01	74.00	-9.99	31.76	3	Vertical	300	1.80	-	28.26	3.99	-
AV	2.39G	51.33	54.00	-2.67	19.08	3	Vertical	300	1.80	-	28.26	3.99	-
PK	2.4128G	114.44	Inf	-Inf	82.13	3	Vertical	300	1.80	-	28.30	4.01	-
AV	2.4108G	106.31	Inf	-Inf	74.00	3	Vertical	300	1.80	-	28.30	4.01	-
PK	2.4924G	59.21	74.00	-14.79	26.65	3	Vertical	300	1.80	-	28.47	4.09	-
AV	2.49G	49.56	54.00	-4.44	17.01	3	Vertical	300	1.80	-	28.46	4.09	-

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

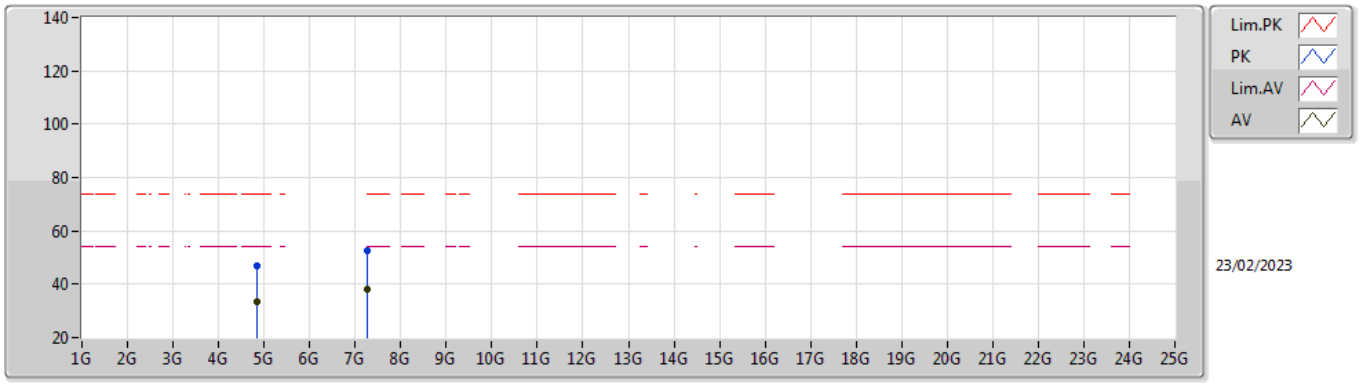


EUT Z_2TX
Setting 18
03-C-R-5

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	2.388G	60.63	74.00	-13.37	28.44	3	Horizontal	92	1.93	-	28.20	3.99	-
AV	2.3896G	47.64	54.00	-6.36	15.45	3	Horizontal	92	1.93	-	28.20	3.99	-
PK	2.4164G	104.99	Inf	-Inf	72.77	3	Horizontal	92	1.93	-	28.20	4.02	-
AV	2.41G	100.04	Inf	-Inf	67.83	3	Horizontal	92	1.93	-	28.20	4.01	-
PK	2.4996G	57.11	74.00	-16.89	24.51	3	Horizontal	92	1.93	-	28.50	4.10	-
AV	2.4936G	45.14	54.00	-8.86	12.59	3	Horizontal	92	1.93	-	28.46	4.09	-

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

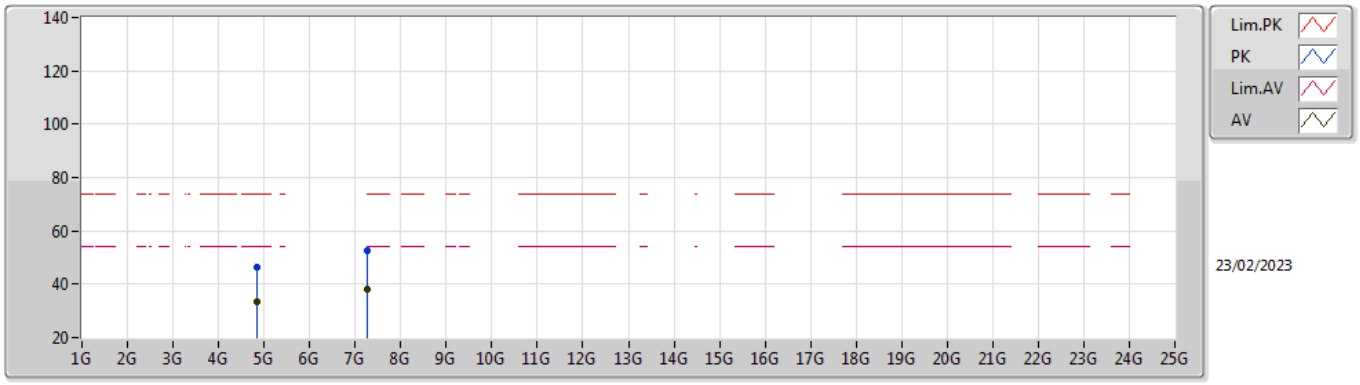


EUT Z_2TX
Setting 18
03-C-R-5

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	4.83764G	46.64	74.00	-27.36	41.62	3	Vertical	255	2.98	-	33.40	6.52	34.90
AV	4.83716G	33.22	54.00	-20.78	28.20	3	Vertical	255	2.98	-	33.40	6.52	34.90
PK	7.26396G	52.36	74.00	-21.64	42.12	3	Vertical	108	2.03	-	36.66	8.70	35.12
AV	7.25644G	38.26	54.00	-15.74	28.05	3	Vertical	108	2.03	-	36.63	8.70	35.12

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

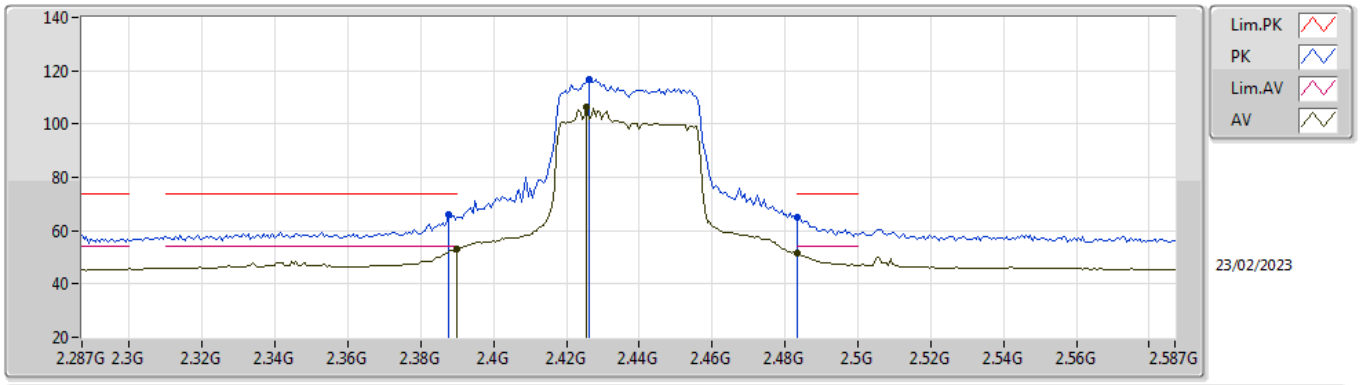


EUT Z_2TX
Setting 18
03-C-R-5

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	4.8388G	46.54	74.00	-27.46	41.52	3	Horizontal	238	2.44	-	33.40	6.52	34.90
AV	4.8384G	33.29	54.00	-20.71	28.27	3	Horizontal	238	2.44	-	33.40	6.52	34.90
PK	7.2686G	52.68	74.00	-21.32	42.43	3	Horizontal	233	2.28	-	36.67	8.70	35.12
AV	7.2564G	38.26	54.00	-15.74	28.05	3	Horizontal	233	2.28	-	36.63	8.70	35.12

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

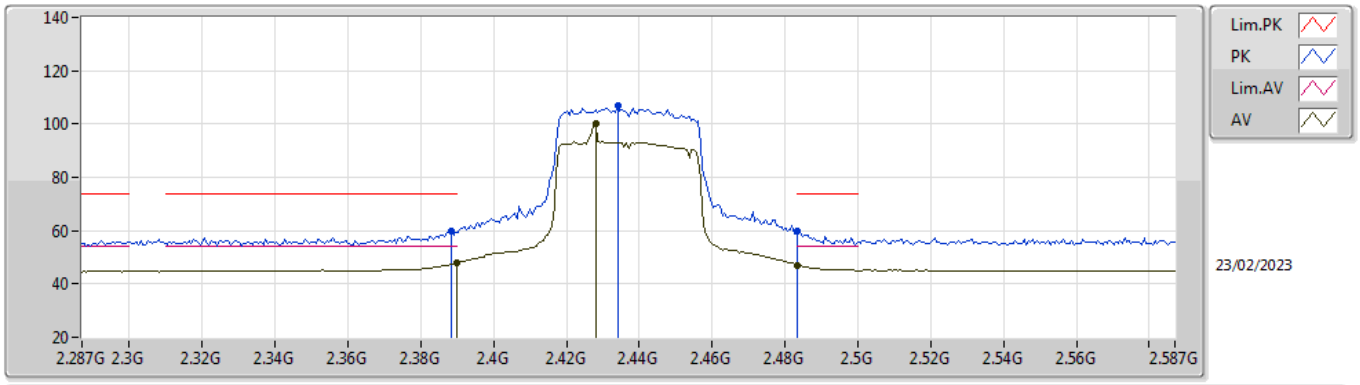


EUT Z_2TX
Setting 20
03-C-E-5

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	2.3878G	66.14	74.00	-7.86	33.90	3	Vertical	300	1.96	-	28.25	3.99	-
AV	2.39G	52.96	54.00	-1.04	20.71	3	Vertical	300	1.96	-	28.26	3.99	-
PK	2.4262G	116.51	Inf	-Inf	84.18	3	Vertical	300	1.96	-	28.30	4.03	-
AV	2.4256G	106.57	Inf	-Inf	74.24	3	Vertical	300	1.96	-	28.30	4.03	-
PK	2.4835G	64.83	74.00	-9.17	32.32	3	Vertical	300	1.96	-	28.43	4.08	-
AV	2.4835G	51.67	54.00	-2.33	19.16	3	Vertical	300	1.96	-	28.43	4.08	-

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

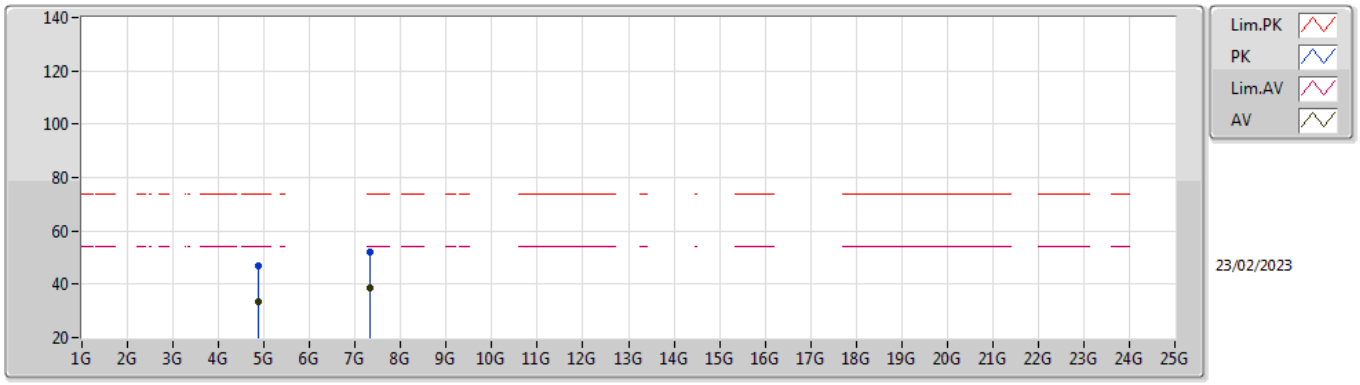


EUT Z_2TX
Setting 20
03-C-R-5

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	2.3884G	59.93	74.00	-14.07	27.74	3	Horizontal	79	2.17	-	28.20	3.99	-
AV	2.39G	48.09	54.00	-5.91	15.90	3	Horizontal	79	2.17	-	28.20	3.99	-
PK	2.434G	106.83	Inf	-Inf	74.60	3	Horizontal	79	2.17	-	28.20	4.03	-
AV	2.428G	99.94	Inf	-Inf	67.71	3	Horizontal	79	2.17	-	28.20	4.03	-
PK	2.4835G	60.02	74.00	-13.98	27.54	3	Horizontal	79	2.17	-	28.40	4.08	-
AV	2.4835G	47.05	54.00	-6.95	14.57	3	Horizontal	79	2.17	-	28.40	4.08	-

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

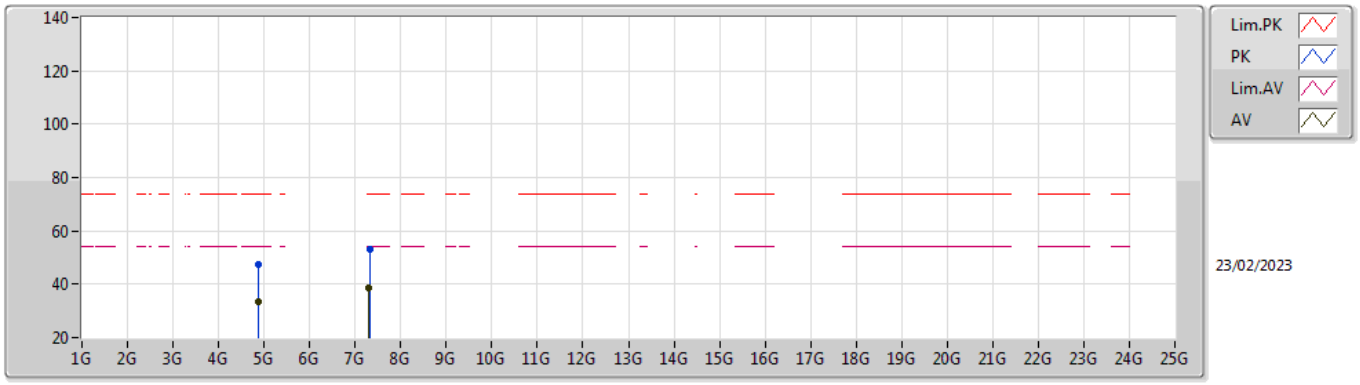


EUT Z_2TX
Setting 20
03-C-R-5

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	4.87984G	46.96	74.00	-27.04	41.73	3	Vertical	95	1.78	-	33.58	6.54	34.89
AV	4.88096G	33.60	54.00	-20.40	28.36	3	Vertical	95	1.78	-	33.59	6.54	34.89
PK	7.31104G	52.26	74.00	-21.74	41.88	3	Vertical	131	1.59	-	36.82	8.70	35.14
AV	7.317G	38.51	54.00	-15.49	28.13	3	Vertical	131	1.59	-	36.83	8.70	35.15

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

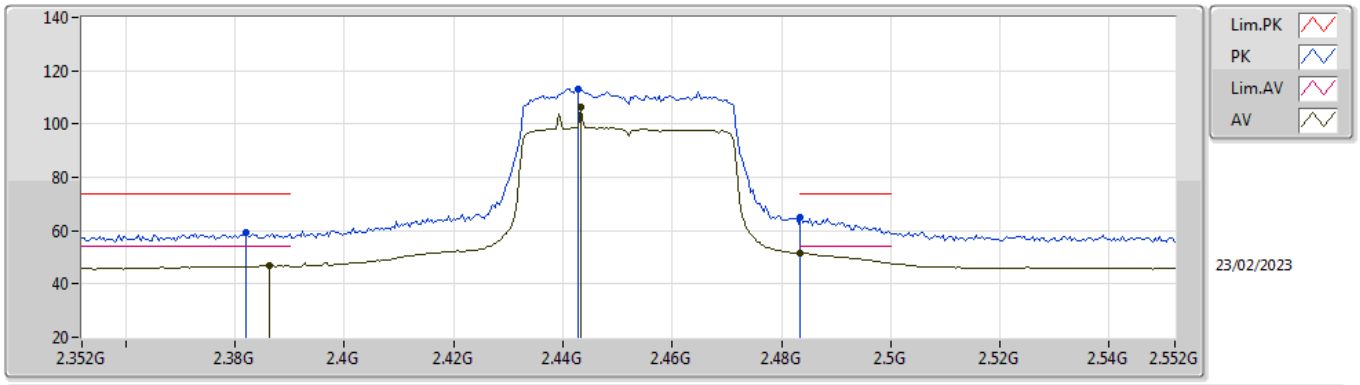


EUT Z_2TX
Setting 20
03-C-R-5

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	4.88148G	47.21	74.00	-26.79	41.97	3	Horizontal	57	2.32	-	33.59	6.54	34.89
AV	4.88128G	33.59	54.00	-20.41	28.35	3	Horizontal	57	2.32	-	33.59	6.54	34.89
PK	7.3126G	53.02	74.00	-20.98	42.63	3	Horizontal	196	2.10	-	36.83	8.70	35.14
AV	7.3078G	38.46	54.00	-15.54	28.08	3	Horizontal	196	2.10	-	36.82	8.70	35.14

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

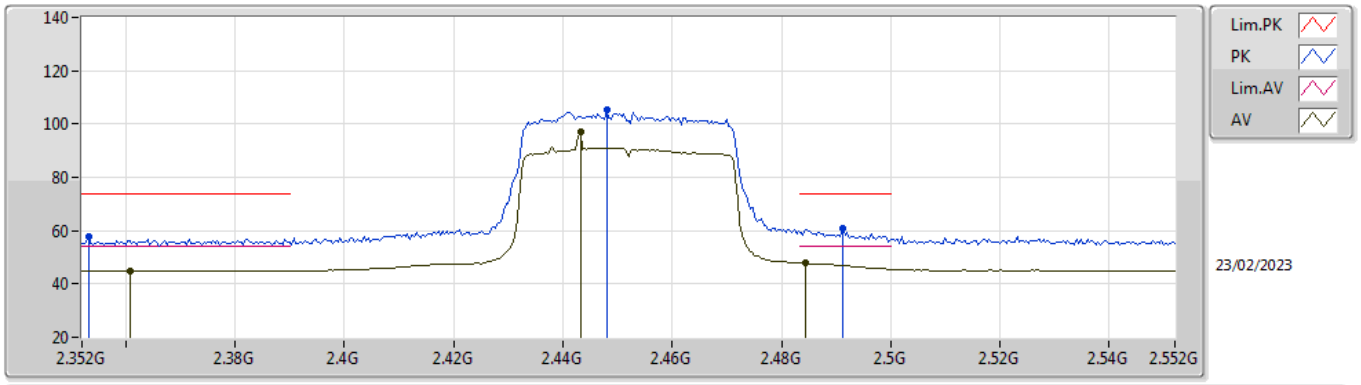


EUT Z_2TX
Setting 18
03-C-E-5

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	2.382G	59.28	74.00	-14.72	27.07	3	Vertical	68	1.49	-	28.23	3.98	-
AV	2.3864G	46.71	54.00	-7.29	14.47	3	Vertical	68	1.49	-	28.25	3.99	-
PK	2.4428G	113.20	Inf	-Inf	80.86	3	Vertical	68	1.49	-	28.30	4.04	-
AV	2.4432G	106.13	Inf	-Inf	73.79	3	Vertical	68	1.49	-	28.30	4.04	-
PK	2.4835G	65.06	74.00	-8.94	32.55	3	Vertical	68	1.49	-	28.43	4.08	-
AV	2.4835G	51.50	54.00	-2.50	18.99	3	Vertical	68	1.49	-	28.43	4.08	-

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

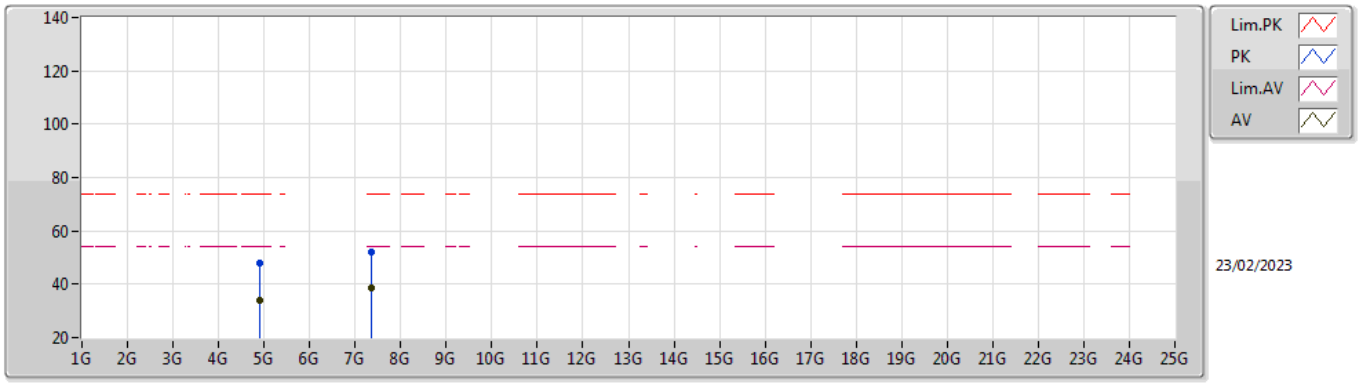


EUT Z_2TX
Setting 18
03-C-R-5

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	2.3532G	57.90	74.00	-16.10	25.75	3	Horizontal	71	1.80	-	28.20	3.95	-
AV	2.3608G	44.97	54.00	-9.03	12.81	3	Horizontal	71	1.80	-	28.20	3.96	-
PK	2.448G	105.13	Inf	-Inf	72.88	3	Horizontal	71	1.80	-	28.20	4.05	-
AV	2.4432G	97.06	Inf	-Inf	64.82	3	Horizontal	71	1.80	-	28.20	4.04	-
PK	2.4912G	60.64	74.00	-13.36	28.10	3	Horizontal	71	1.80	-	28.45	4.09	-
AV	2.4844G	47.77	54.00	-6.23	15.28	3	Horizontal	71	1.80	-	28.41	4.08	-

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

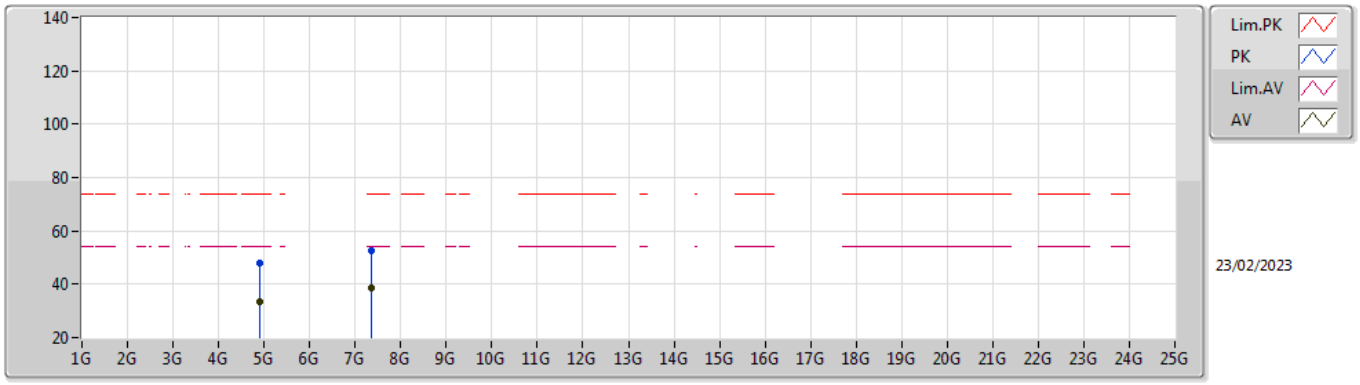


EUT Z_2TX
Setting 18
03-C-R-5

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	4.89556G	47.85	74.00	-26.15	42.52	3	Vertical	316	2.28	-	33.67	6.55	34.89
AV	4.897G	33.71	54.00	-20.29	28.37	3	Vertical	316	2.28	-	33.68	6.55	34.89
PK	7.35692G	52.03	74.00	-21.97	41.59	3	Vertical	287	2.68	-	36.90	8.70	35.16
AV	7.36552G	38.56	54.00	-15.44	28.13	3	Vertical	287	2.68	-	36.90	8.70	35.17

2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



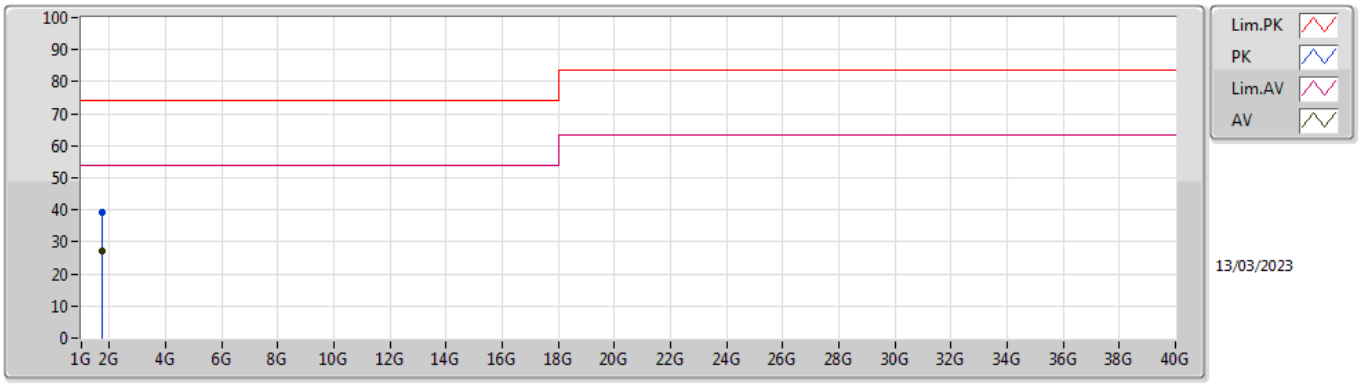
EUT Z_2TX
Setting 18
03-C-R-5

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	4.90776G	47.70	74.00	-26.30	42.36	3	Horizontal	2	2.45	-	33.68	6.55	34.89
AV	4.89752G	33.70	54.00	-20.30	28.35	3	Horizontal	2	2.45	-	33.69	6.55	34.89
PK	7.34644G	52.38	74.00	-21.62	41.95	3	Horizontal	197	2.94	-	36.89	8.70	35.16
AV	7.36544G	38.58	54.00	-15.42	28.15	3	Horizontal	197	2.94	-	36.90	8.70	35.17

Summary

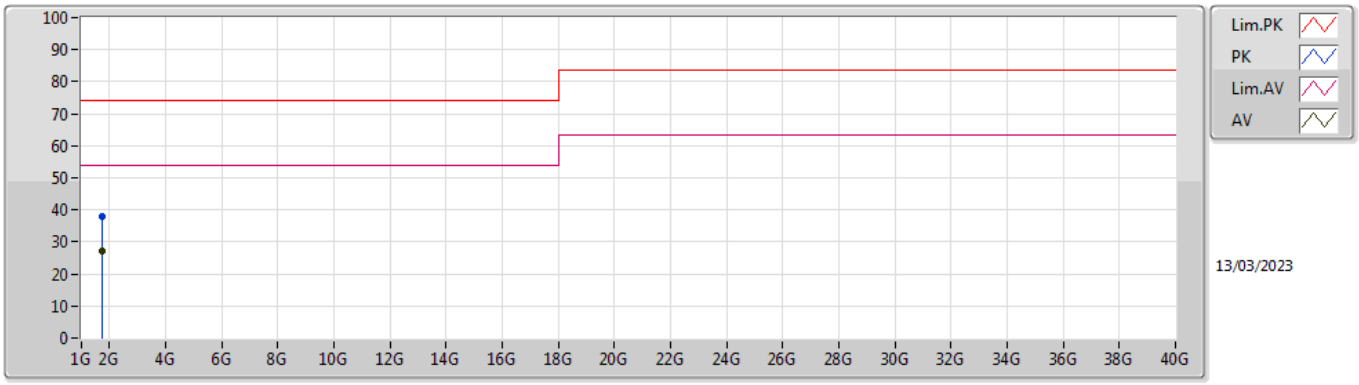
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.75142G	27.12	54.00	-26.88	Vertical

Mode 1



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	1.75236G	39.11	74.00	-34.89	-5.12	3	Vertical	266	1.50	-	44.23	25.40	4.24	34.76
AV	1.75142G	27.12	54.00	-26.88	-5.12	3	Vertical	266	1.50	"Worst"	32.24	25.40	4.24	34.76

Mode 1



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	1.7527G	38.07	74.00	-35.93	-5.11	3	Horizontal	325	1.50	-	43.18	25.41	4.24	34.76
AV	1.7598G	26.99	54.00	-27.01	-5.08	3	Horizontal	325	1.50	"Worst"	32.07	25.42	4.25	34.75