



RADIO TEST REPORT

FCC ID : 2ABLK-GPR1027E
Equipment : Wi-Fi 6 indoor PoE Mesh
Brand Name : Calix
Model Name : p4 GPR1027E
Applicant : Calix Inc.
1035 N. McDowell Blvd. Petaluma, CA94954 U.S.A.
Manufacturer : NEWEB VIET NAM CO., LTD.
Land Lot CN01, Dong Van III Industrial zone,
Dong Van Ward, Duy Tien Town, Ha Nam Province,
VietNam
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 11, 2023, and testing was started from Dec. 14, 2023 and completed on Dec. 29, 2023. 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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Photographs of EUT v01



History of this test report

Table with 4 columns: Report No., Version, Description, Issued Date. Row 1: FR3D0613AA, 01, Initial issue of report, Jan. 29, 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	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: **Sam Chen**

Report Producer: **Vicky Huang**



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
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, 1024QAM 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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	HB	290-50304	Dipole Antenna	I-PEX	Note 1
2	HB	290-50305	Dipole Antenna	I-PEX	
3	HB	290-50302	PIFA Antenna	I-PEX	
4	HB	290-50303	PIFA Antenna	I-PEX	

Note 1:

Ant.	Port		Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	
				UNII 1	UNII 3
1	1	-	1.7	-	-
2	2	-	2.9	-	-
3	-	1	-	2.5	3.6
4	-	2	-	3.3	4.9

Note 2: The above information was declared by manufacturer.



Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] => 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

2.4G G1= 1.7 dBi ; G2= 2.9 dBi ;

5G UNII-1 G1 = 2.5 dBi; G2 = 3.3 dBi;

5G UNII-3 G1 = 3.6 dBi; G2 = 4.9 dBi;

2.4G DG = 5.33 dBi

5G UNII-1 DG = 5.92 dBi

5G UNII-3 DG = 7.28 dBi

For 2.4GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:

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

Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.999	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20-BF	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW40-BF	0.997	0.01	n/a (DC>=0.98)	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 or PoE			
Beamforming Function	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
Support RU	<input checked="" type="checkbox"/>	Full RU	<input type="checkbox"/>	Partial RU
Test Software Version	QSPR V5.0-00202			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT Supports Function

Function
AP Router
Bridge
Repeater

Note 1: From the above, after evaluating, AP Router was selected to test and record in the 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	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	21.2-22.7 / 65-69	Dec. 19, 2023~ Dec. 26, 2023
Radiated (below 1GHz)	10CH01-CB	Peter Wu	23-24 / 56-57	Dec. 29, 2023
Radiated (above 1GHz)	03CH04-CB	Eason chen	22.7-23.8 / 56-59	Dec. 19, 2023~ Dec. 22, 2023
AC Conduction	CO01-CB	Ryan Huang	21-22 / 68-69	Dec. 14, 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 Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_2TX
2412MHz
2437MHz
2462MHz
802.11g_Nss1,(6Mbps)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW20_Nss1,(MCS0)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW40_Nss1,(MCS0)_2TX
2422MHz
2437MHz
2447MHz
2452MHz
802.11ax HEW20-BF_Nss1,(MCS0)_2TX
2412MHz
2417MHz
2437MHz
2457MHz
2462MHz
802.11ax HEW40-BF_Nss1,(MCS0)_2TX
2422MHz
2437MHz
2447MHz
2452MHz

Note:

- ◆ HEW20 / HEW40 covers HT20 / HT40 / VHT20 / VHT40 due to similar modulation. The power setting for HT20 / HT40 / VHT20 / VHT40 is the same or lower than HEW20 / HEW40.
- ◆ The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been selected to execute all tests. The beamforming mode evaluates the output power only



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	Normal Link_EUT + Adapter
2	Normal Link_EUT + PoE
For operating mode 1 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	Normal Link After evaluating, and the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	Normal Link_EUT in Z axis + Adapter
2	Normal Link_EUT in Z axis + PoE
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX After evaluating, and the worst case was found at Y axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Y axis



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
Refer to Sporton Test Report No.: FA3D0613 for Co-location RF Exposure Evaluation.	

Note: The PoE was for measurement only and would not be marketed.
 Its information is shown as below:

Equipment	Brand Name	Model Name
PoE	DELTA	ADH-90AR B

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

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	AMIGO	AMS200-1201500FU	Input: 100-240V~50/60Hz, 0.8A Max Output: 12V, 1.5A
other			
Wall-mounted rack*1			



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Ethernet port PC	ASUS	S300TA	TX2-RTL8821CE
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A

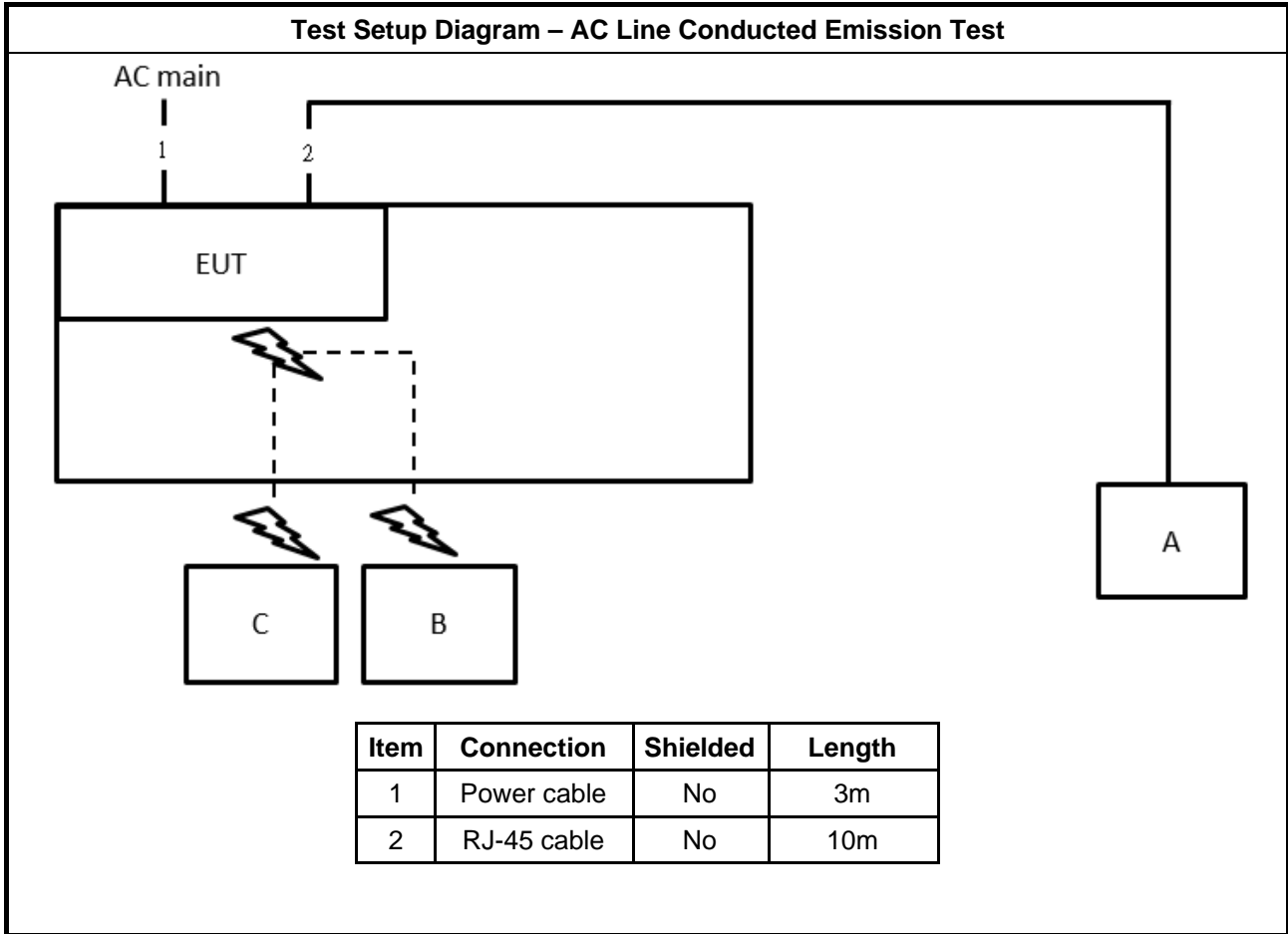
For Radiated (below 1GHz):

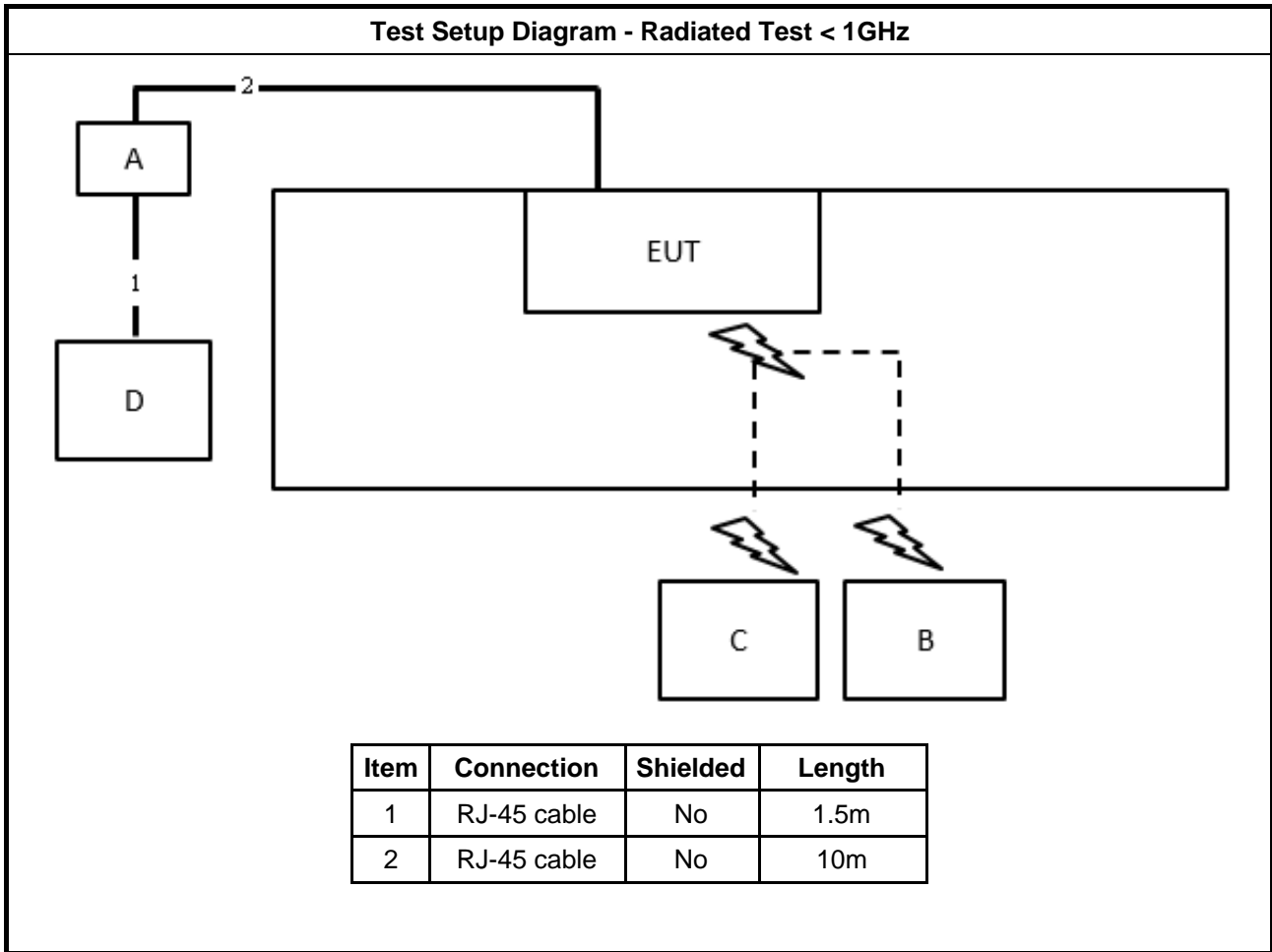
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	DELTA	ADH-90AR B	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A
D	Ethernet port PC	ASUS	S300TA	TX2-RTL8821CE

For Radiated (above 1GHz) and RF Conducted:

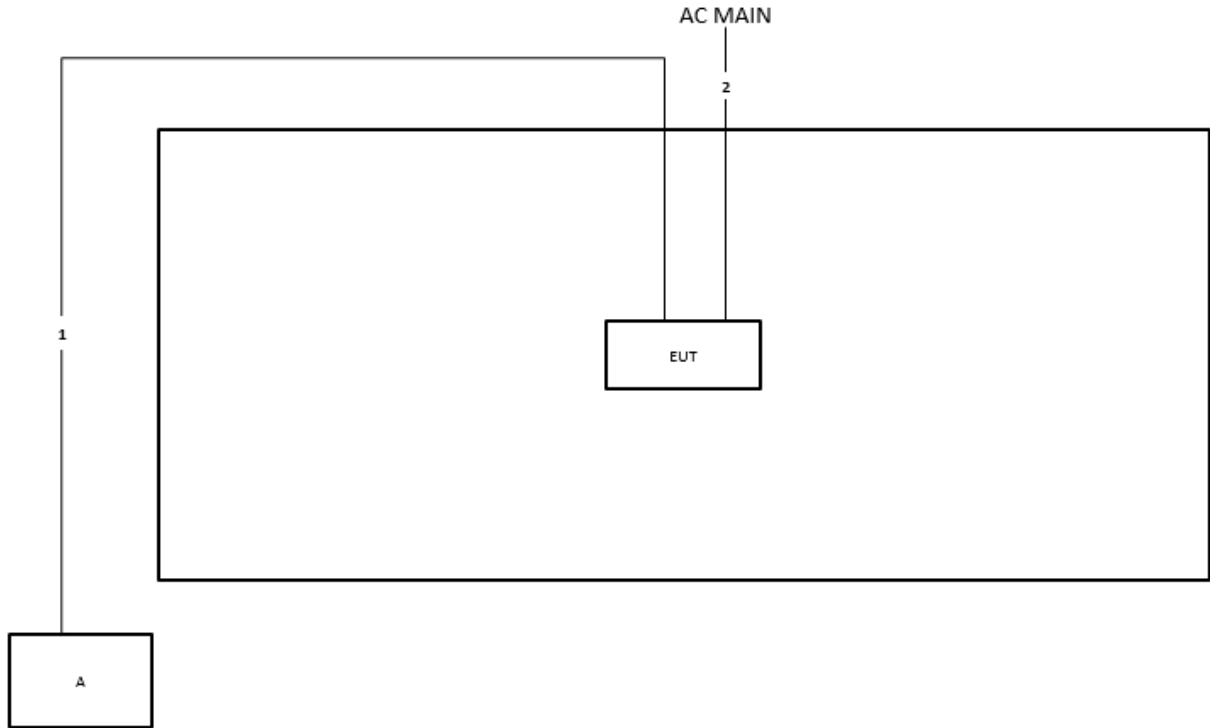
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

2.6 Test Setup Diagram





Test Setup Diagram - Radiated Test > 1GHz



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



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.

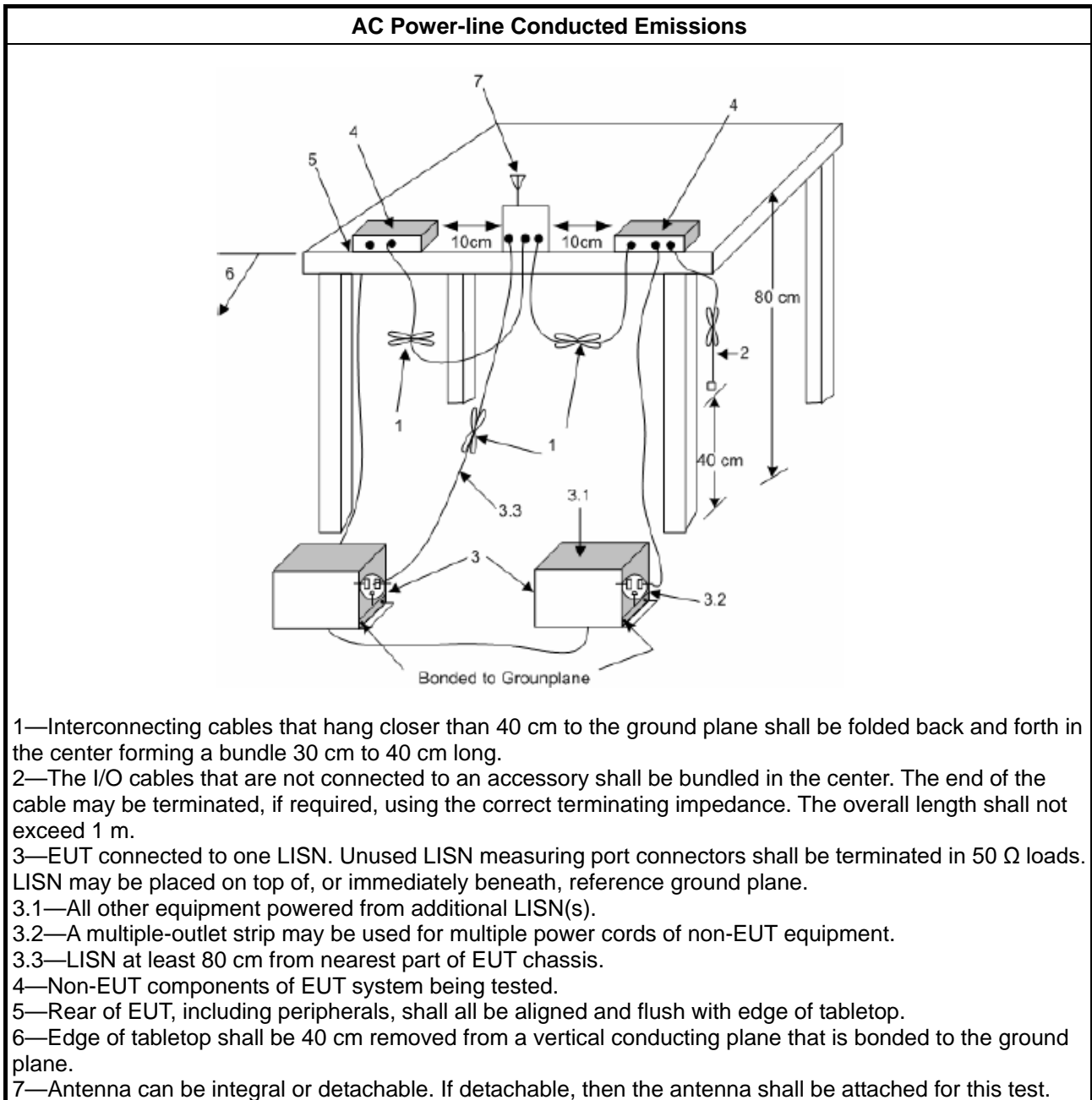
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



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:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

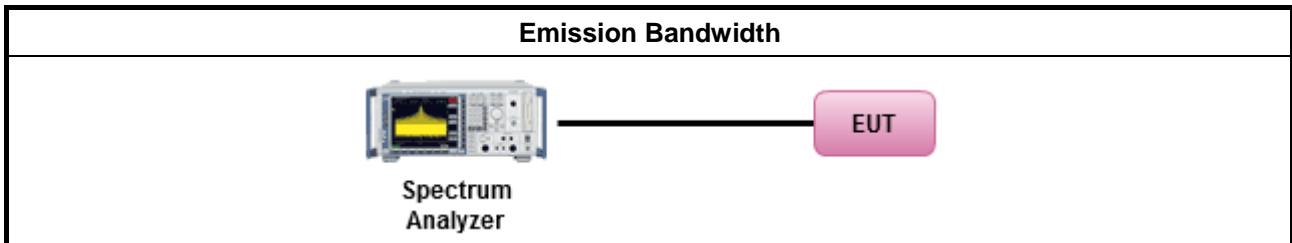
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



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	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

3.3.2 Measuring Instruments

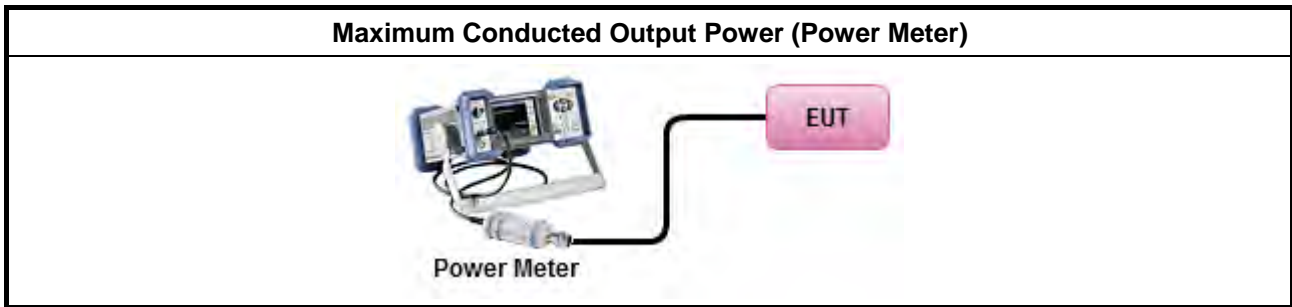
Refer a test equipment and calibration data table in this test report.



3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	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	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	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)	
<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	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).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



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
<ul style="list-style-type: none"> Power Spectral Density (PSD) ≤ 8 dBm/3kHz

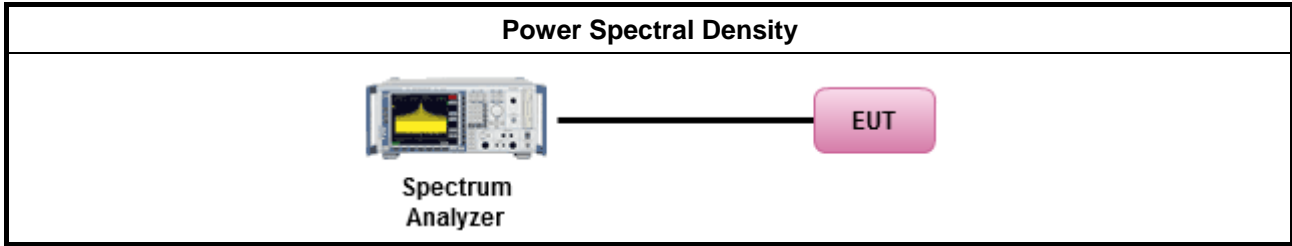
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method						
<ul style="list-style-type: none"> 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). 						
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.						
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <table border="1" style="width: 100%;"> <tr> <td style="width: 20px;"><input checked="" type="checkbox"/></td> <td>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.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>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,</td> </tr> <tr> <td><input type="checkbox"/></td> <td>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.</td> </tr> </table> 	<input checked="" type="checkbox"/>	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.	<input type="checkbox"/>	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,	<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.					
<input type="checkbox"/>	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,					
<input type="checkbox"/>	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



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.

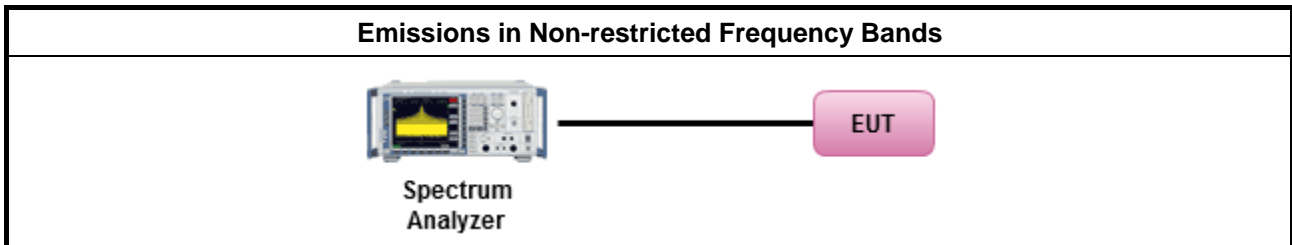
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



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

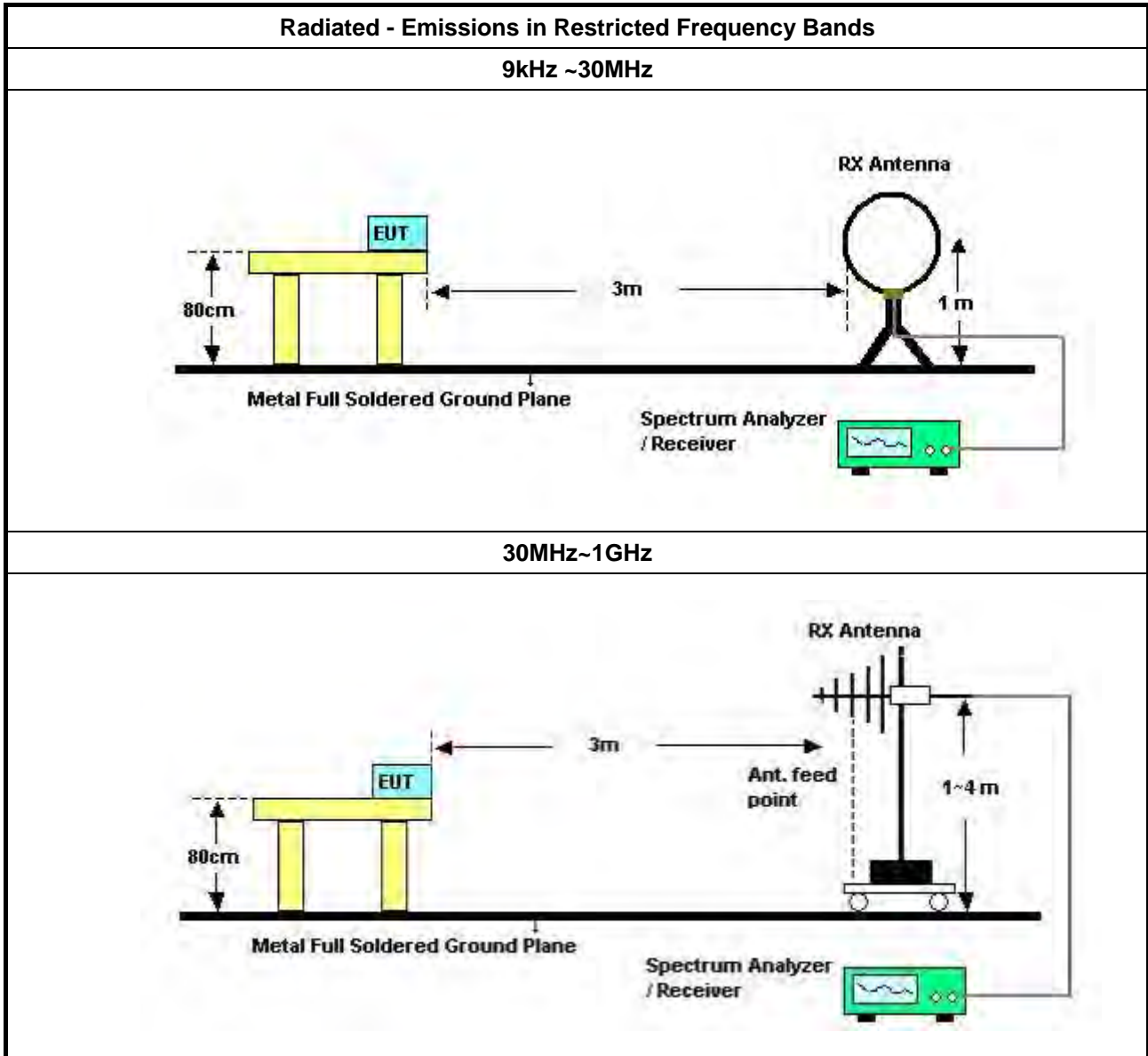
Refer a test equipment and calibration data table in this test report.

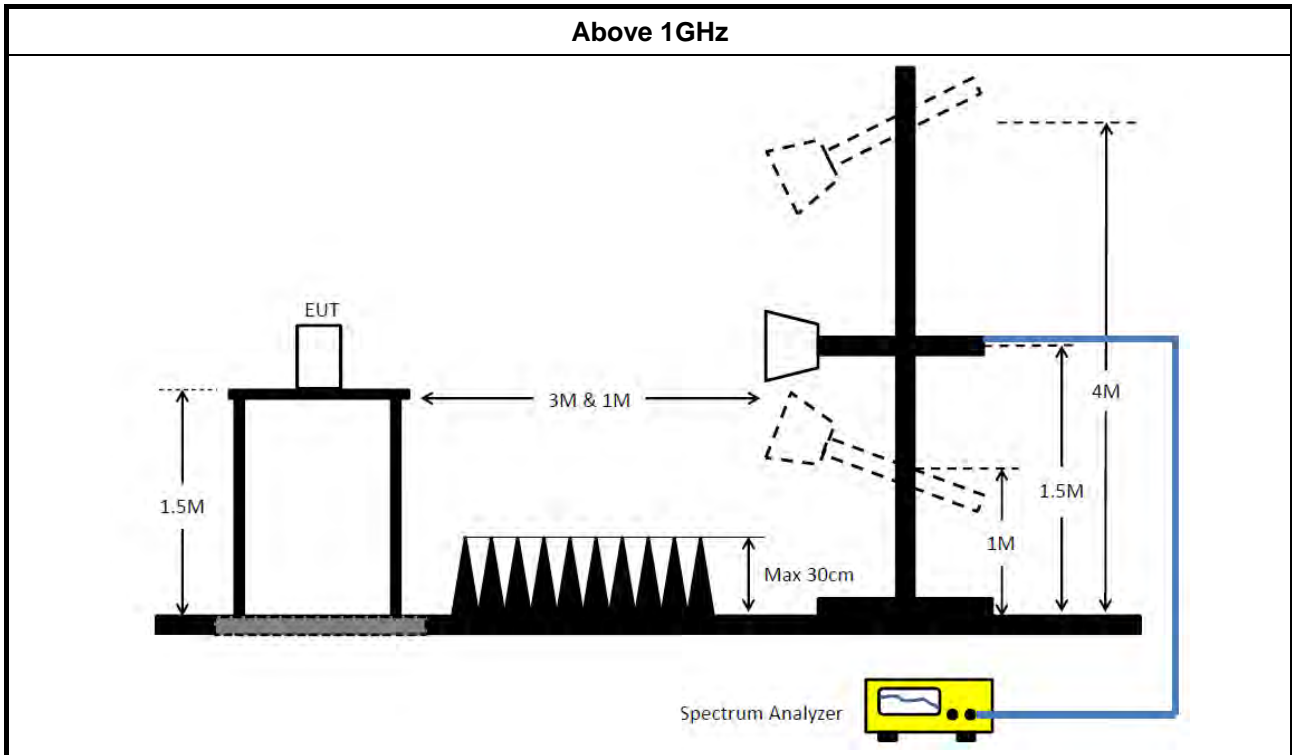


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
	<ul style="list-style-type: none"> ▪ 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
	<ul style="list-style-type: none"> ▪ 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





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)
10m Semi Anechoic Chamber NSA	TDK	SAC-10M	10CH01-CB	30MHz~1GHz 10m,3m	Jan. 18, 2023	Jan. 17, 2024	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10783	9kHz ~ 1.3GHz	Mar. 10, 2023	Mar. 09, 2024	Radiation (10CH01-CB)
Amplifier	Agilent	8447D	2944A10784	9kHz ~ 1.3GHz	Mar. 10, 2023	Mar. 09, 2024	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-01	25MHz ~ 1GHz	Oct. 17, 2023	Oct. 16, 2024	Radiation (10CH01-CB)
Low Cable	Woken	SUCOFLEX 104	low cable-02	25MHz ~ 1GHz	Oct. 17, 2023	Oct. 16, 2024	Radiation (10CH01-CB)
EMI Test Receiver	Rohde&Schwarz	ESCI	100186	9kHz ~ 3GHz	Jul. 11, 2023	Jul. 10, 2024	Radiation (10CH01-CB)
Spectrum Analyzer	Rohde&Schwarz	FSV30	101026	9kHz ~ 30GHz	Apr. 19, 2023	Apr. 18, 2024	Radiation (10CH01-CB)
Bilog Antenna with 6dB Attenuator	Schaffner & EMC	CBL6112B&N-6-06	2888&AT-N0605	30MHz ~ 1GHz	Jan. 19, 2023	Jan. 18, 2024	Radiation (10CH01-CB)
Amplifier	EM	EM101	060703	10MHz ~ 1GHz	Oct. 18, 2023	Oct. 17, 2024	Radiation (10CH01-CB)
Low Cable	TITAN	T318E	low cable-03	30MHz ~ 1GHz	Nov. 23, 2023	Nov. 22, 2024	Radiation (10CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (10CH01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (10CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 23, 2023	Feb. 22, 2024	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	ETS · Lindgren	3115	00143147	750MHz~18GHz	Oct. 04, 2023	Oct. 03, 2024	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz~26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 30, 2022	Dec. 29, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

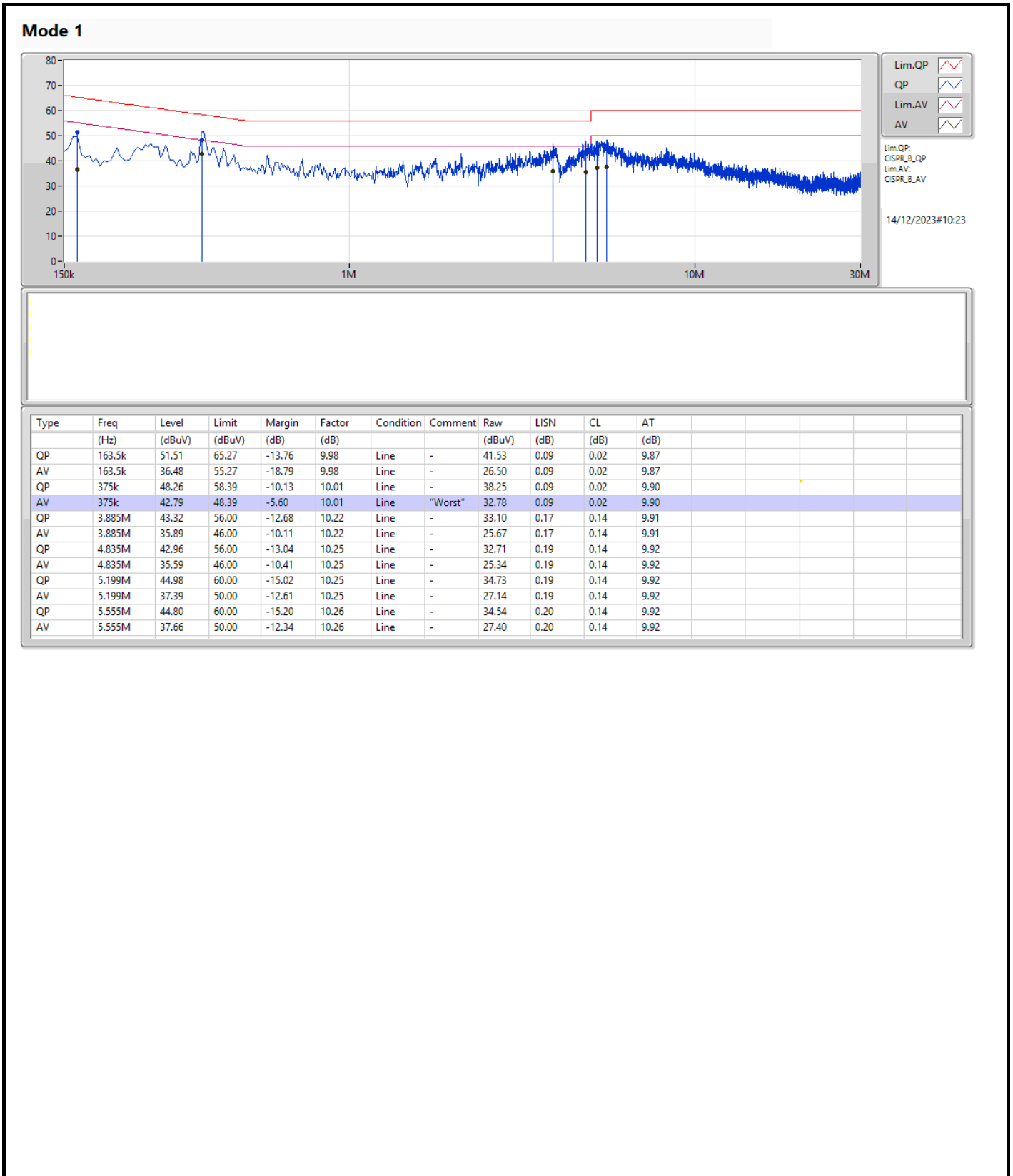
Note: Calibration Interval of instruments listed above is one year.

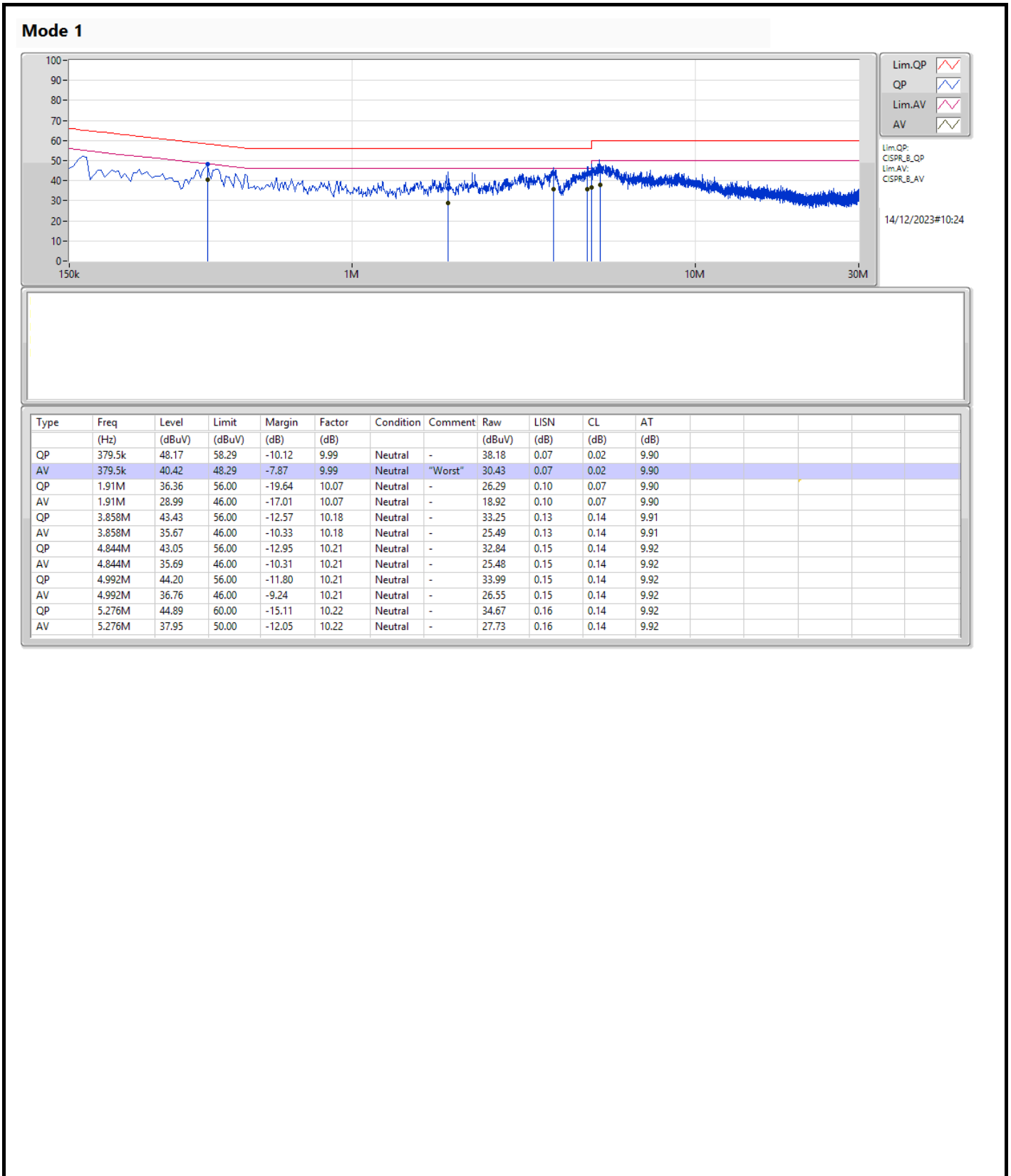
NCR means Non-Calibration required.



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	375k	42.79	48.39	-5.60	Line





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	8.1M	13.741M	13M7G1D	7.05M	13.064M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.792M	16M8D1D	11.725M	16.182M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.675M	18.996M	19M0D1D	14.375M	18.639M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.2M	37.45M	37M5D1D	26.1M	37.289M

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	7.075M	13.155M	7.05M	13.095M
2437MHz	Pass	500k	7.55M	13.741M	7.125M	13.641M
2462MHz	Pass	500k	8.1M	13.092M	8.1M	13.064M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	14.075M	16.236M	13.425M	16.182M
2437MHz	Pass	500k	16.3M	16.637M	11.725M	16.792M
2462MHz	Pass	500k	14.15M	16.191M	13.525M	16.24M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	14.85M	18.726M	18.175M	18.639M
2437MHz	Pass	500k	14.375M	18.898M	16.8M	18.996M
2462MHz	Pass	500k	18.675M	18.878M	18.425M	18.701M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	31.6M	37.289M	30.4M	37.352M
2437MHz	Pass	500k	26.2M	37.41M	26.1M	37.394M
2452MHz	Pass	500k	36.2M	37.426M	26.6M	37.45M

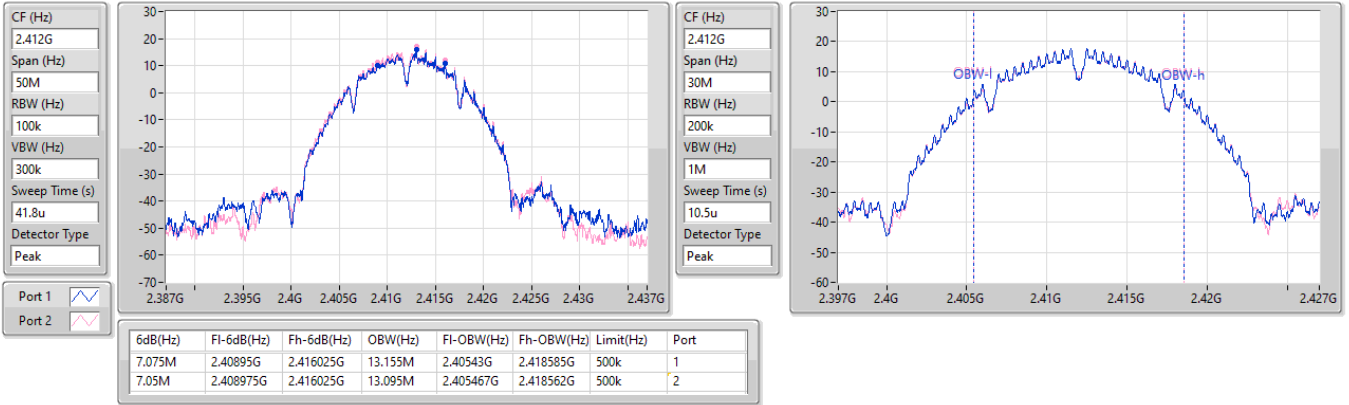
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

22/12/2023

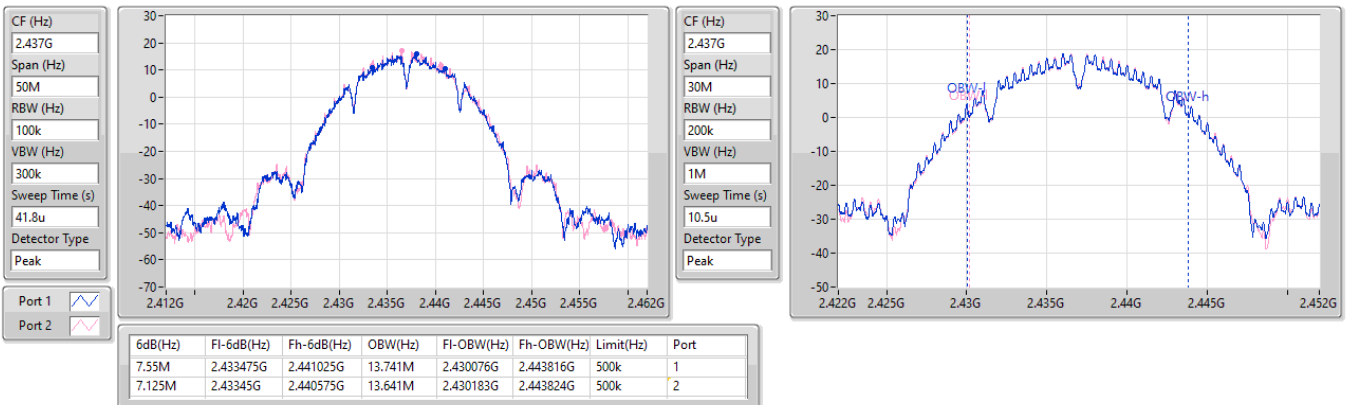


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

22/12/2023

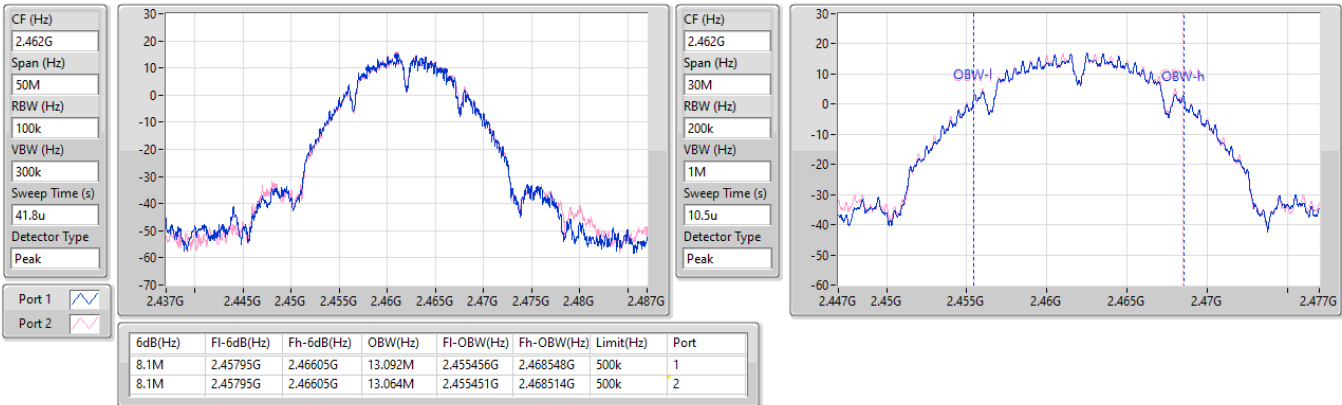


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

22/12/2023

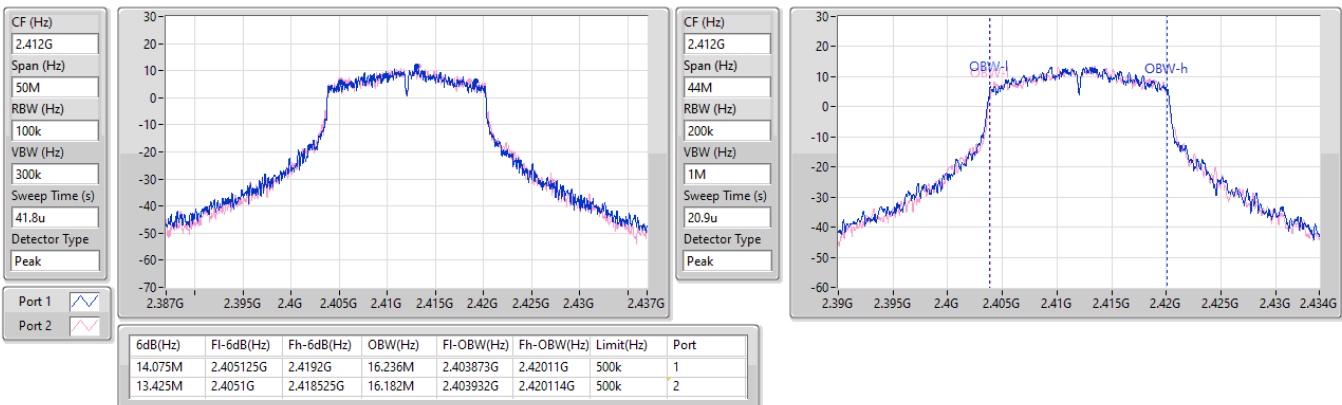


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

22/12/2023

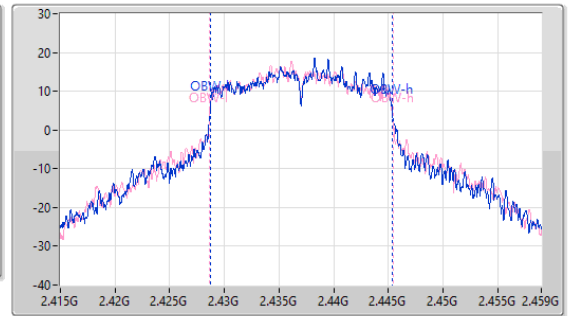
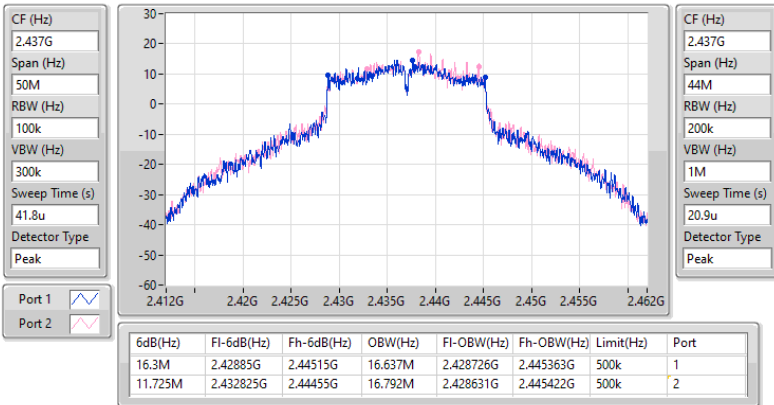


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

22/12/2023

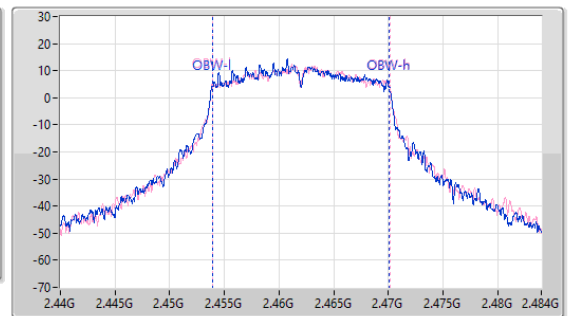
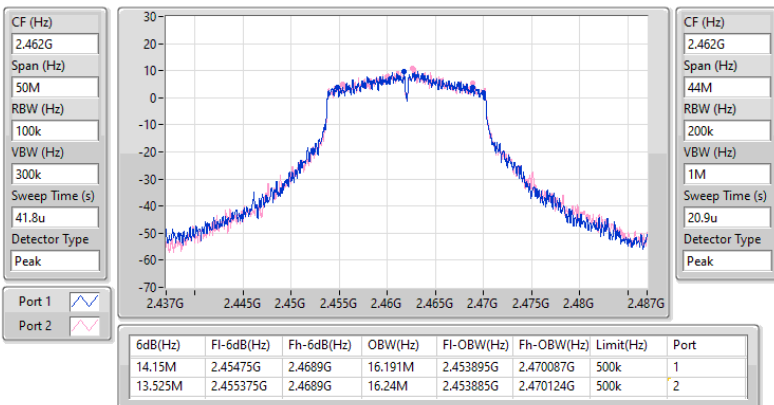


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

22/12/2023

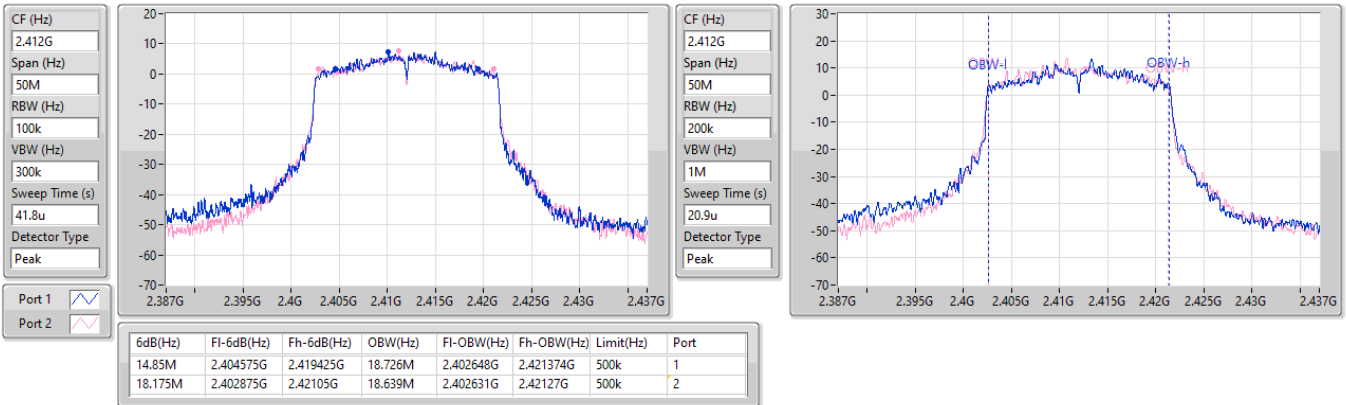


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

22/12/2023

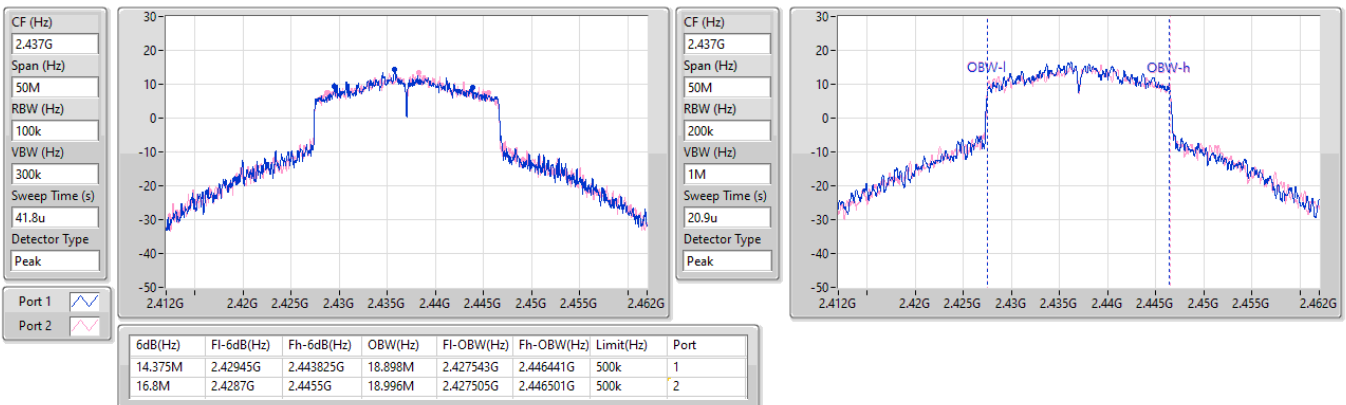


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

22/12/2023

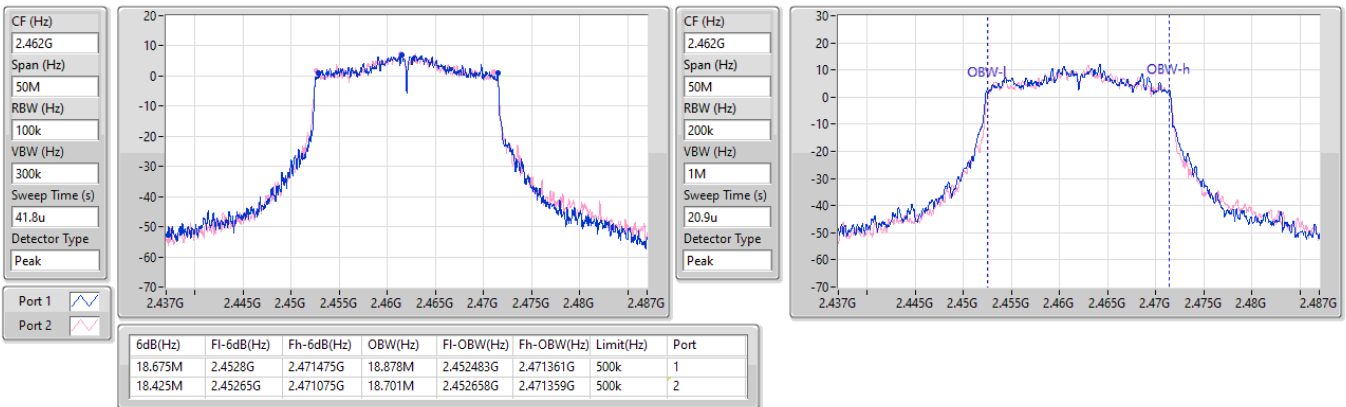


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

22/12/2023

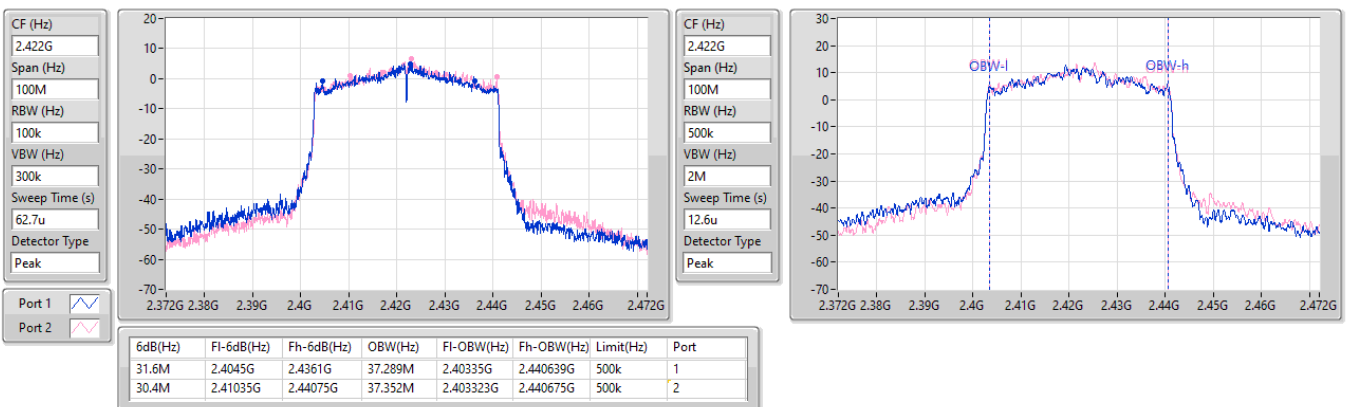


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

22/12/2023

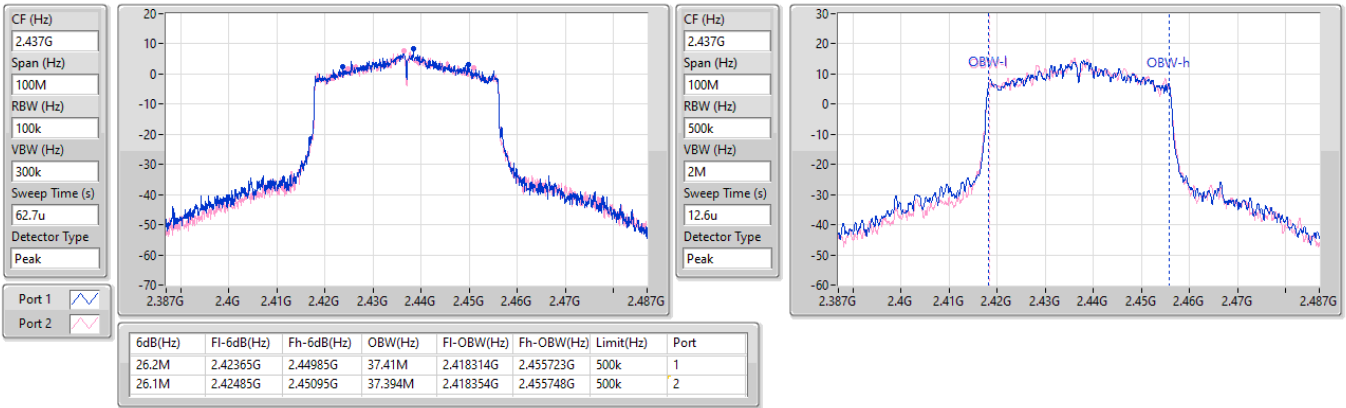


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

22/12/2023

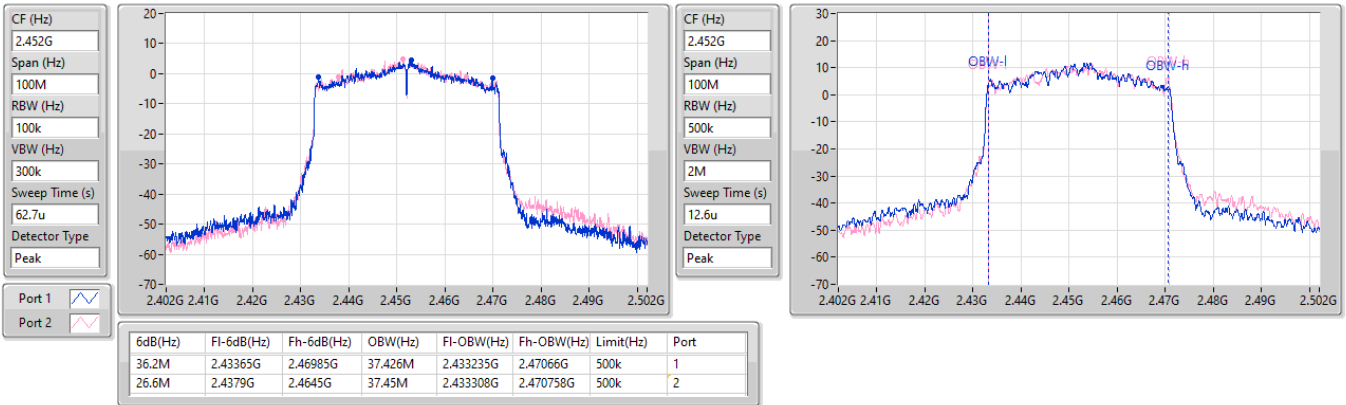


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

22/12/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.54	0.89950
802.11g_Nss1,(6Mbps)_2TX	29.96	0.99083
802.11ax HEW20_Nss1,(MCS0)_2TX	29.73	0.93972
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	29.73	0.93972
802.11ax HEW40_Nss1,(MCS0)_2TX	25.64	0.36644
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.64	0.36644



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.90	25.20	25.28	28.25	30.00
2437MHz	Pass	2.90	26.48	26.58	29.54	30.00
2462MHz	Pass	2.90	25.28	25.32	28.31	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.90	23.86	23.87	26.88	30.00
2417MHz	Pass	2.90	24.91	25.08	28.01	30.00
2437MHz	Pass	2.90	26.90	26.99	29.96	30.00
2457MHz	Pass	2.90	24.81	24.92	27.88	30.00
2462MHz	Pass	2.90	22.44	22.45	25.46	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.90	21.13	21.31	24.23	30.00
2417MHz	Pass	2.90	24.03	24.34	27.20	30.00
2437MHz	Pass	2.90	26.64	26.80	29.73	30.00
2457MHz	Pass	2.90	24.65	24.78	27.73	30.00
2462MHz	Pass	2.90	20.93	20.77	23.86	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.90	20.54	20.96	23.77	30.00
2437MHz	Pass	2.90	22.63	22.62	25.64	30.00
2447MHz	Pass	2.90	20.54	20.78	23.67	30.00
2452MHz	Pass	2.90	19.93	19.96	22.96	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.33	21.13	21.31	24.23	30.00
2417MHz	Pass	5.33	24.03	24.34	27.20	30.00
2437MHz	Pass	5.33	26.64	26.80	29.73	30.00
2457MHz	Pass	5.33	24.65	24.78	27.73	30.00
2462MHz	Pass	5.33	20.93	20.77	23.86	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.33	20.54	20.96	23.77	30.00
2437MHz	Pass	5.33	22.63	22.62	25.64	30.00
2447MHz	Pass	5.33	22.60	22.64	25.63	30.00
2452MHz	Pass	5.33	19.93	19.96	22.96	30.00

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



Summary

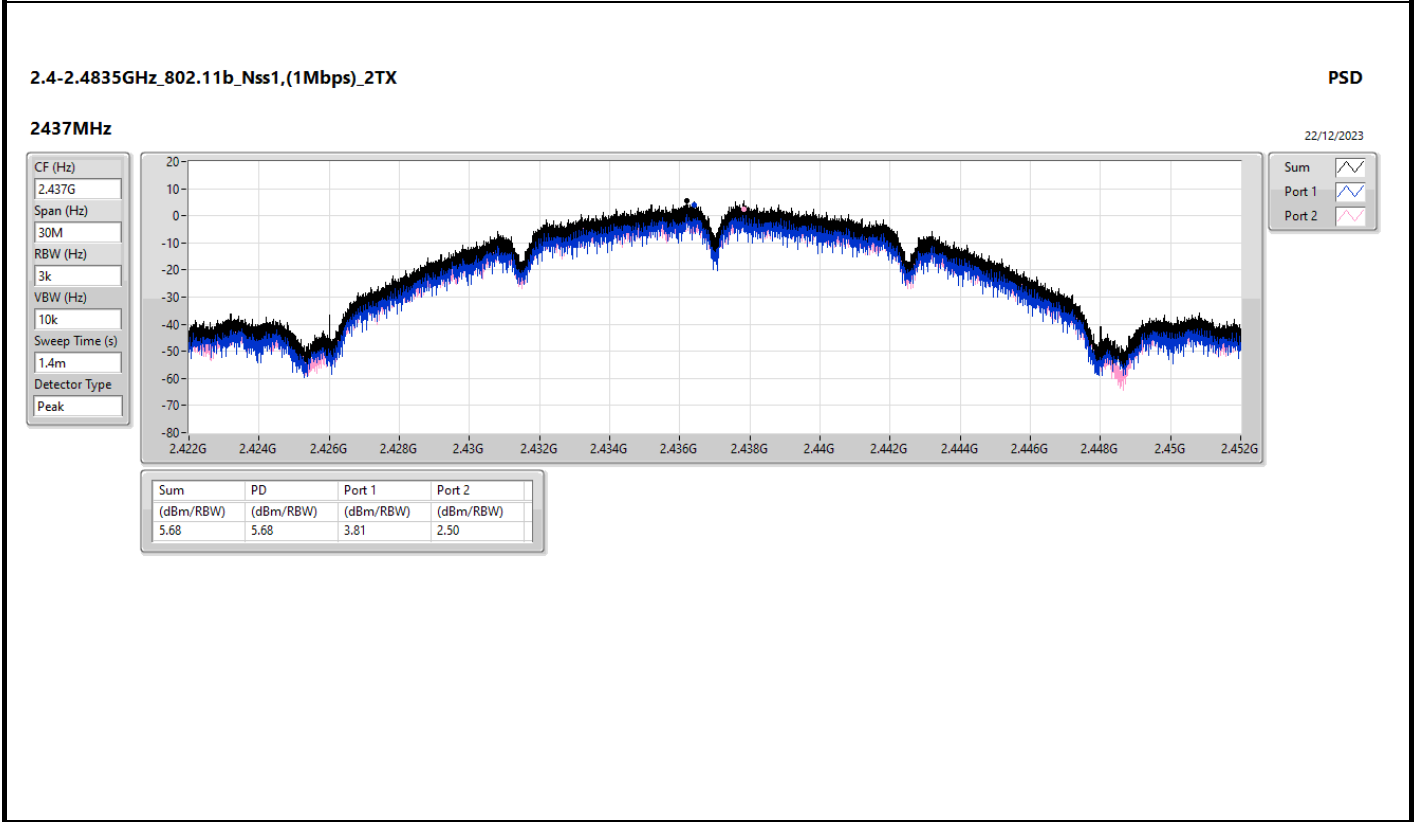
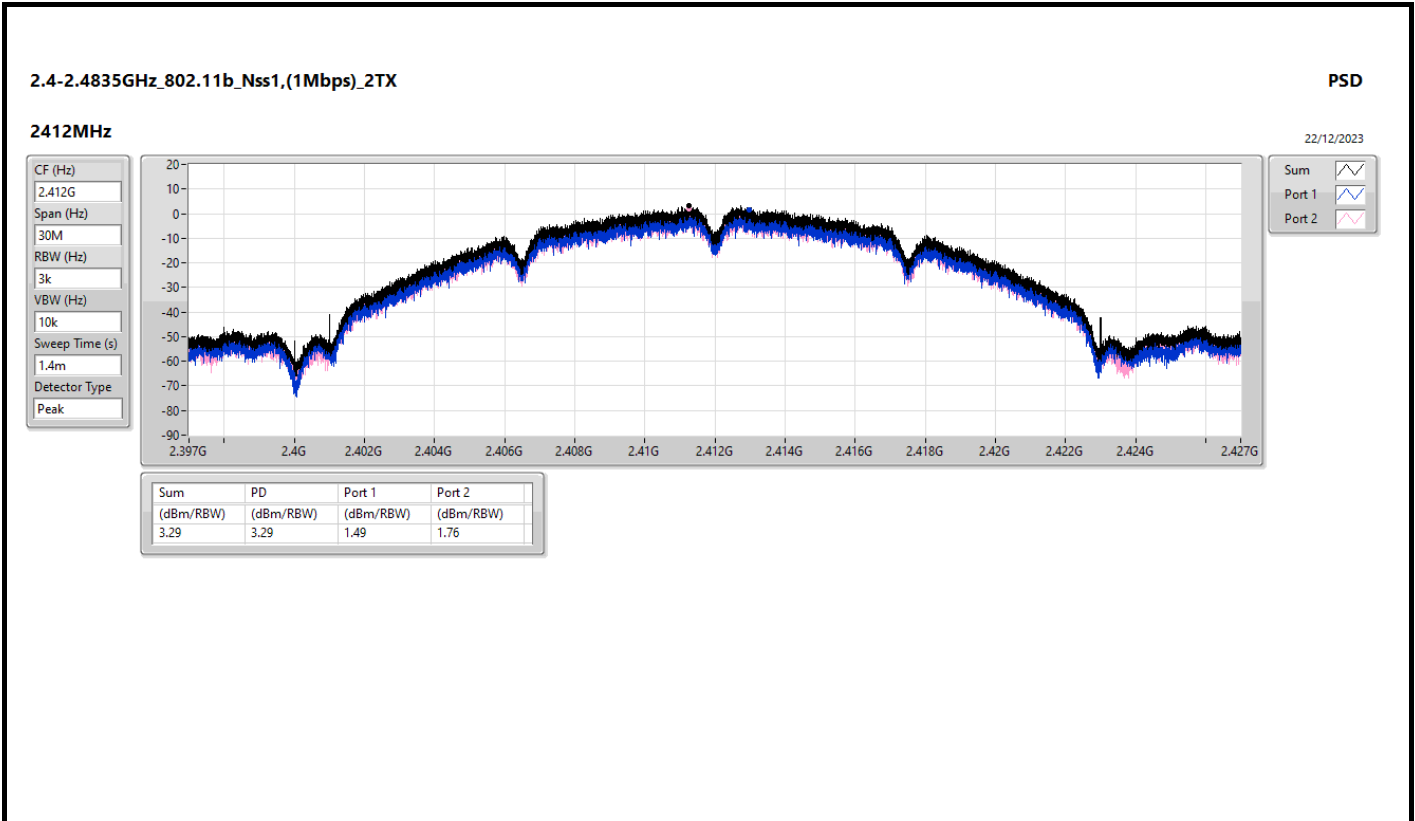
Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	5.68
802.11g_Nss1,(6Mbps)_2TX	4.64
802.11ax HEW20_Nss1,(MCS0)_2TX	2.32
802.11ax HEW40_Nss1,(MCS0)_2TX	-3.78

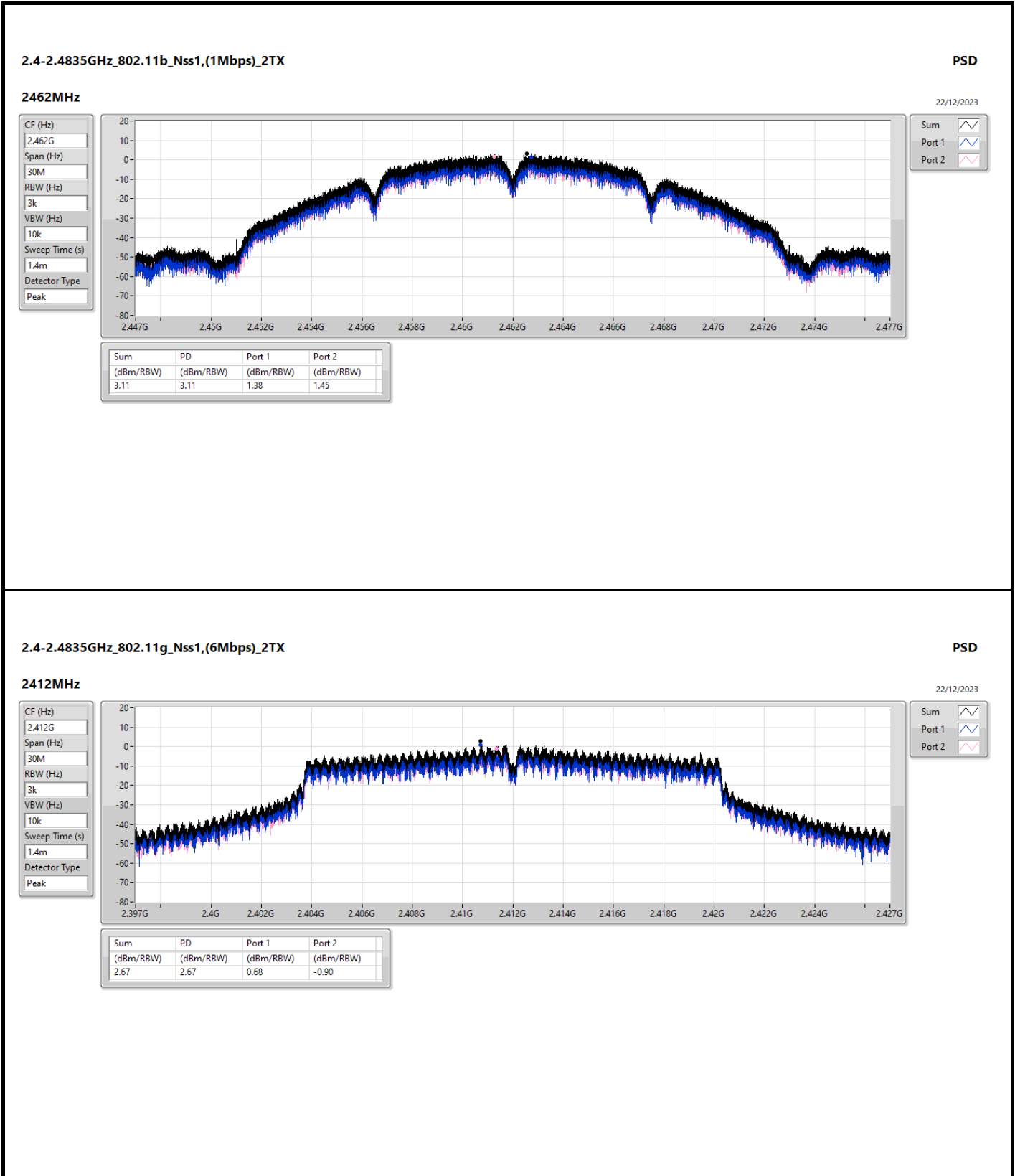
RBW = 3kHz;

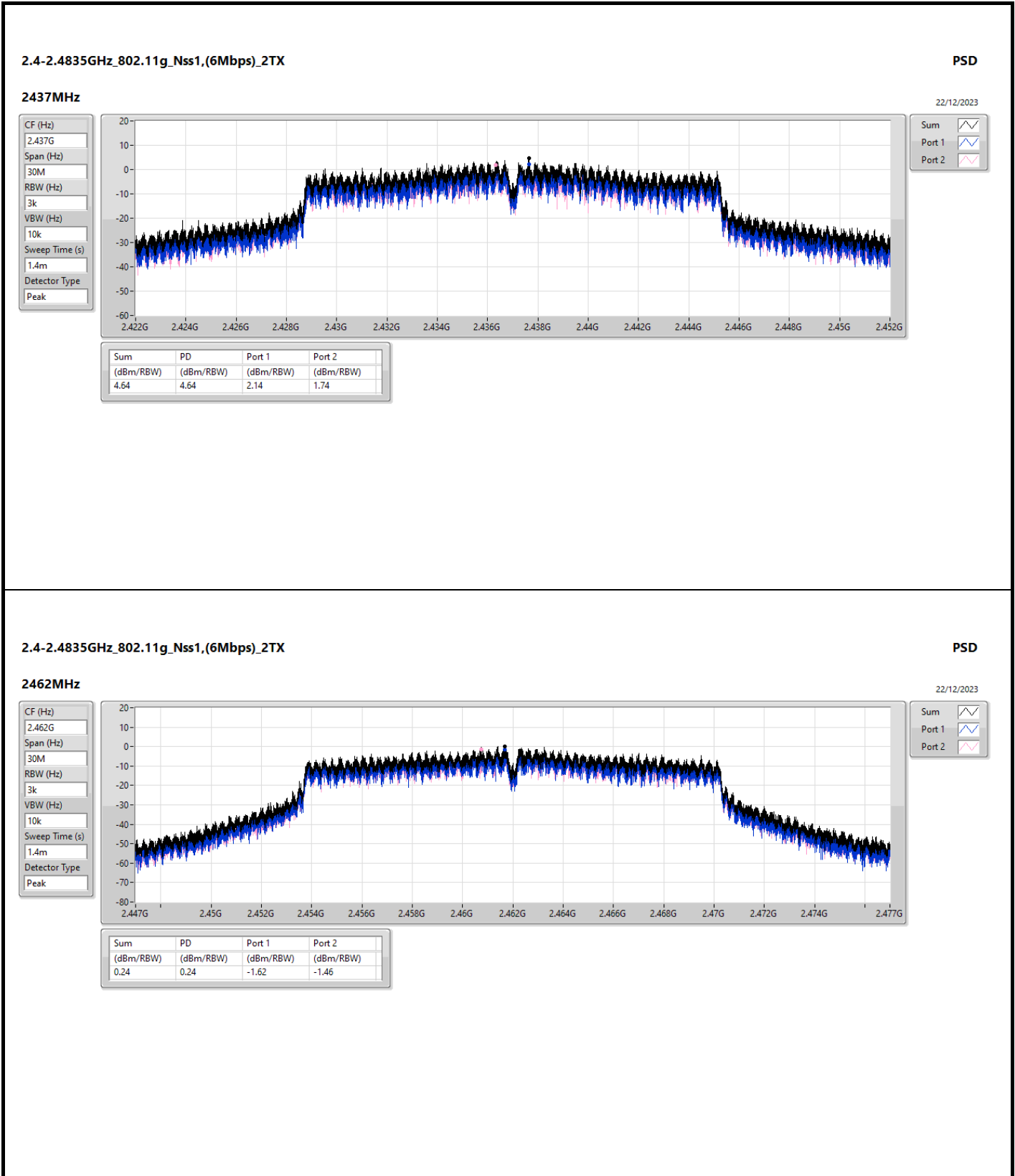
Result

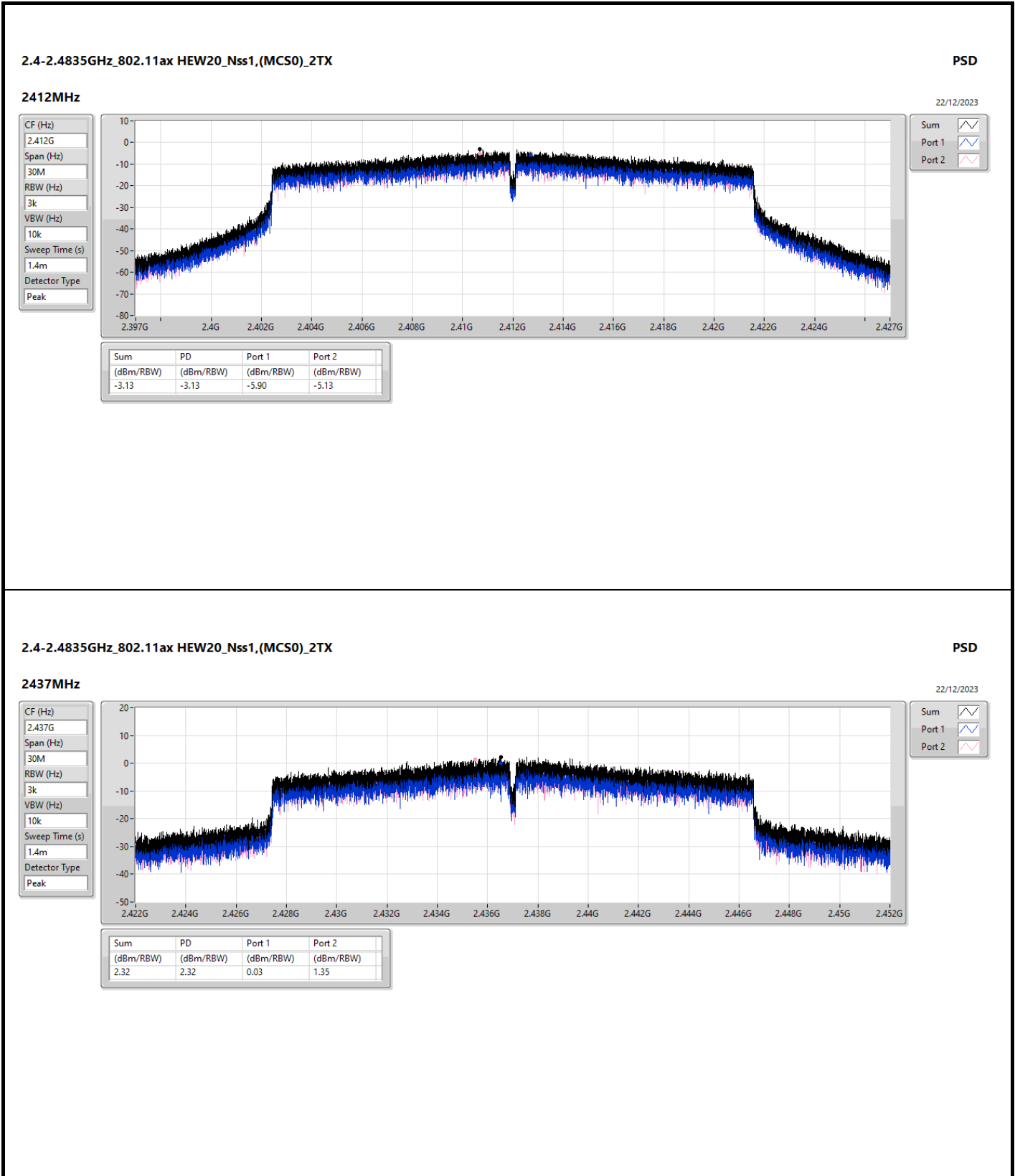
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.33	1.49	1.76	3.29	8.00
2437MHz	Pass	5.33	3.81	2.50	5.68	8.00
2462MHz	Pass	5.33	1.38	1.45	3.11	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.33	0.68	-0.90	2.67	8.00
2437MHz	Pass	5.33	2.14	1.74	4.64	8.00
2462MHz	Pass	5.33	-1.62	-1.46	0.24	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.33	-5.90	-5.13	-3.13	8.00
2437MHz	Pass	5.33	0.03	1.35	2.32	8.00
2462MHz	Pass	5.33	-4.61	-5.06	-2.45	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.33	-8.18	-7.94	-5.98	8.00
2437MHz	Pass	5.33	-5.86	-6.25	-3.78	8.00
2452MHz	Pass	5.33	-8.38	-8.04	-6.08	8.00

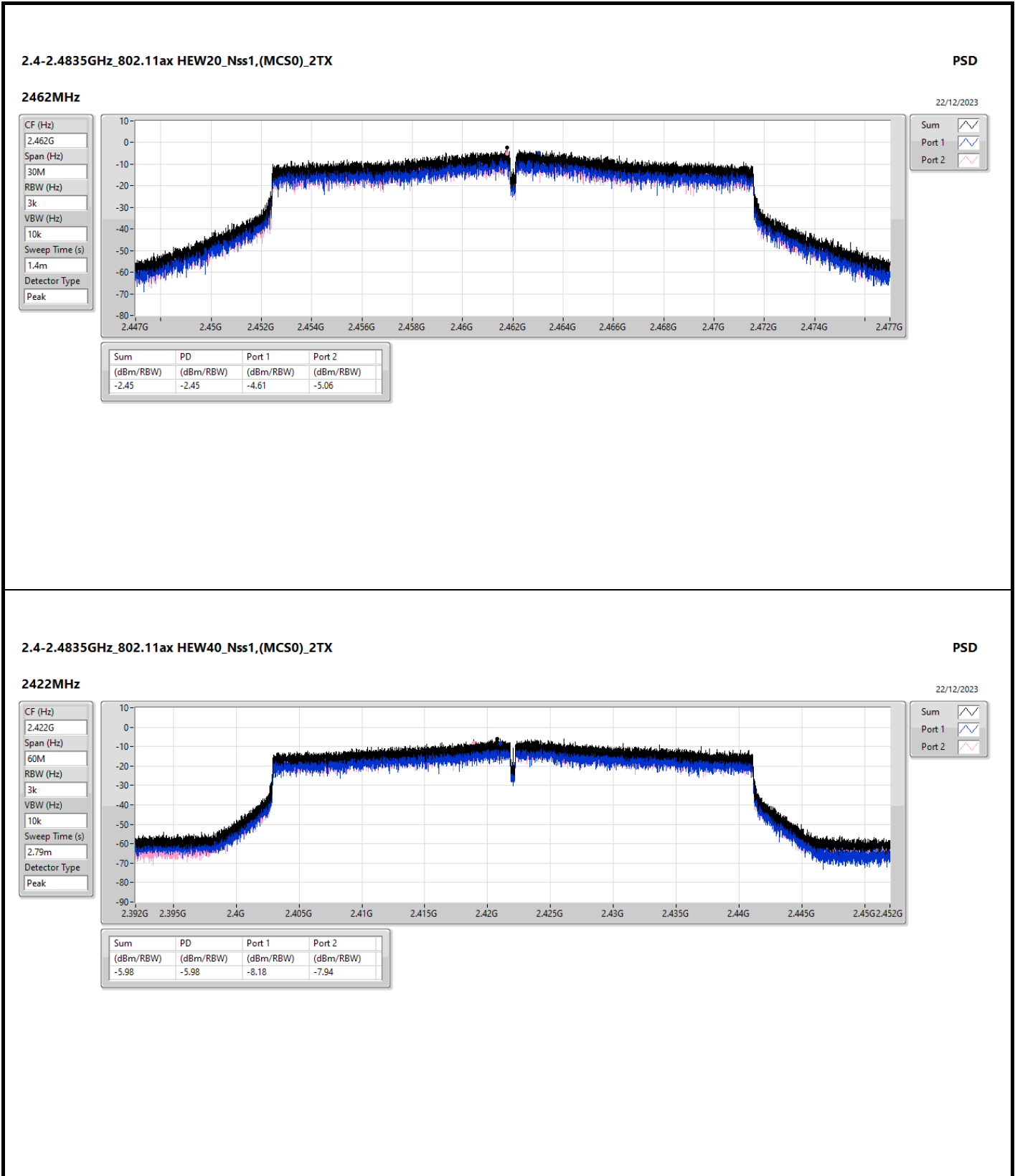
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

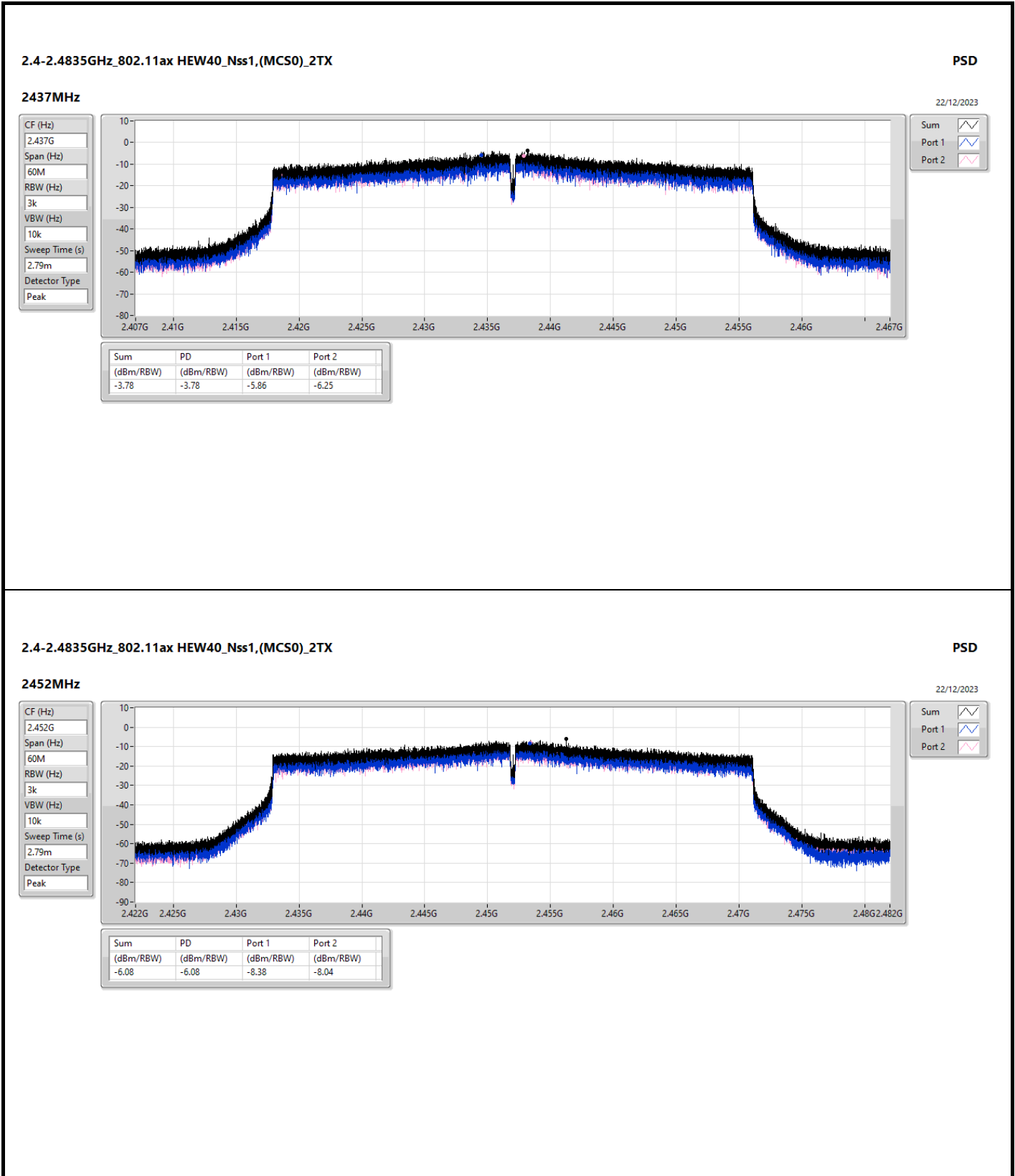












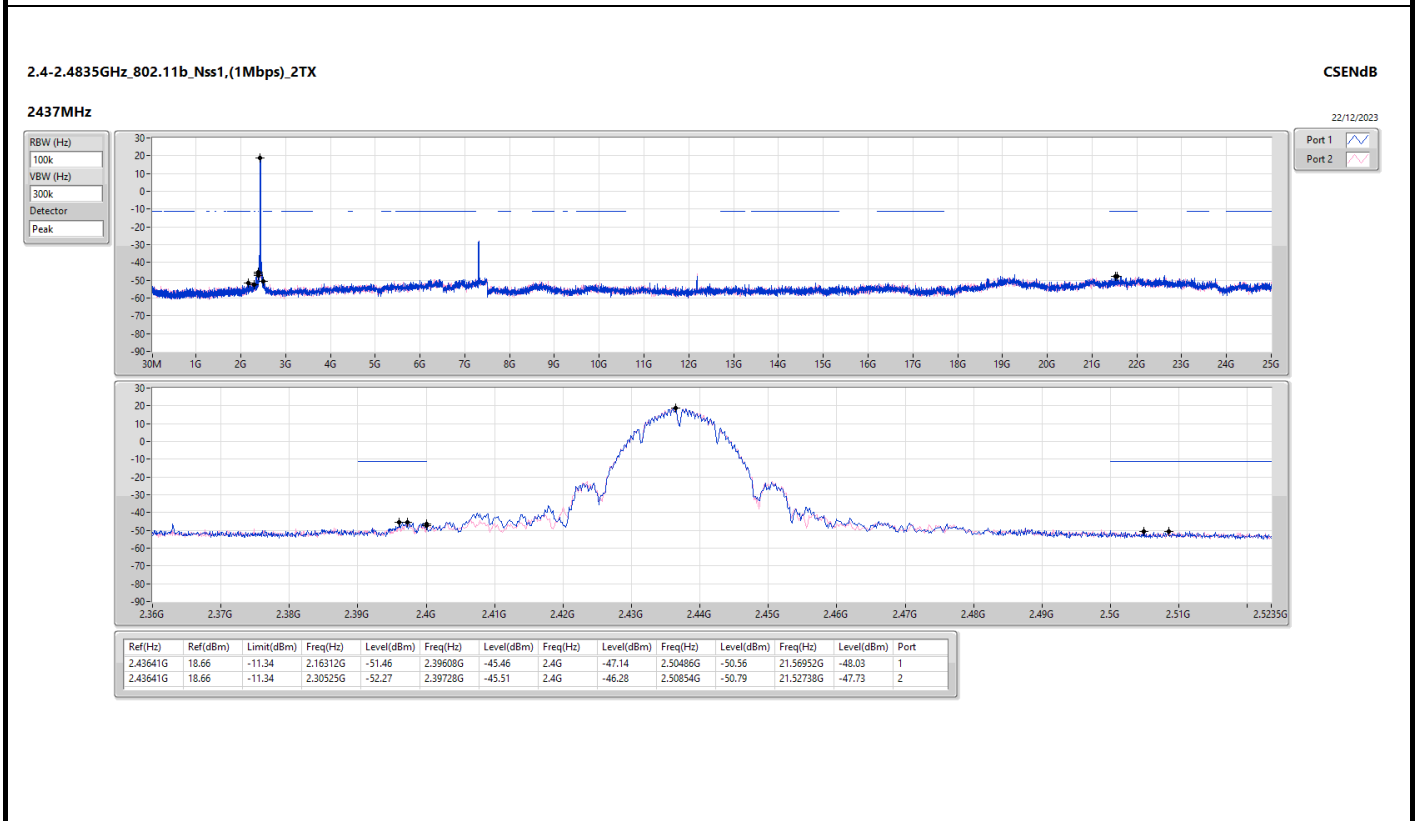
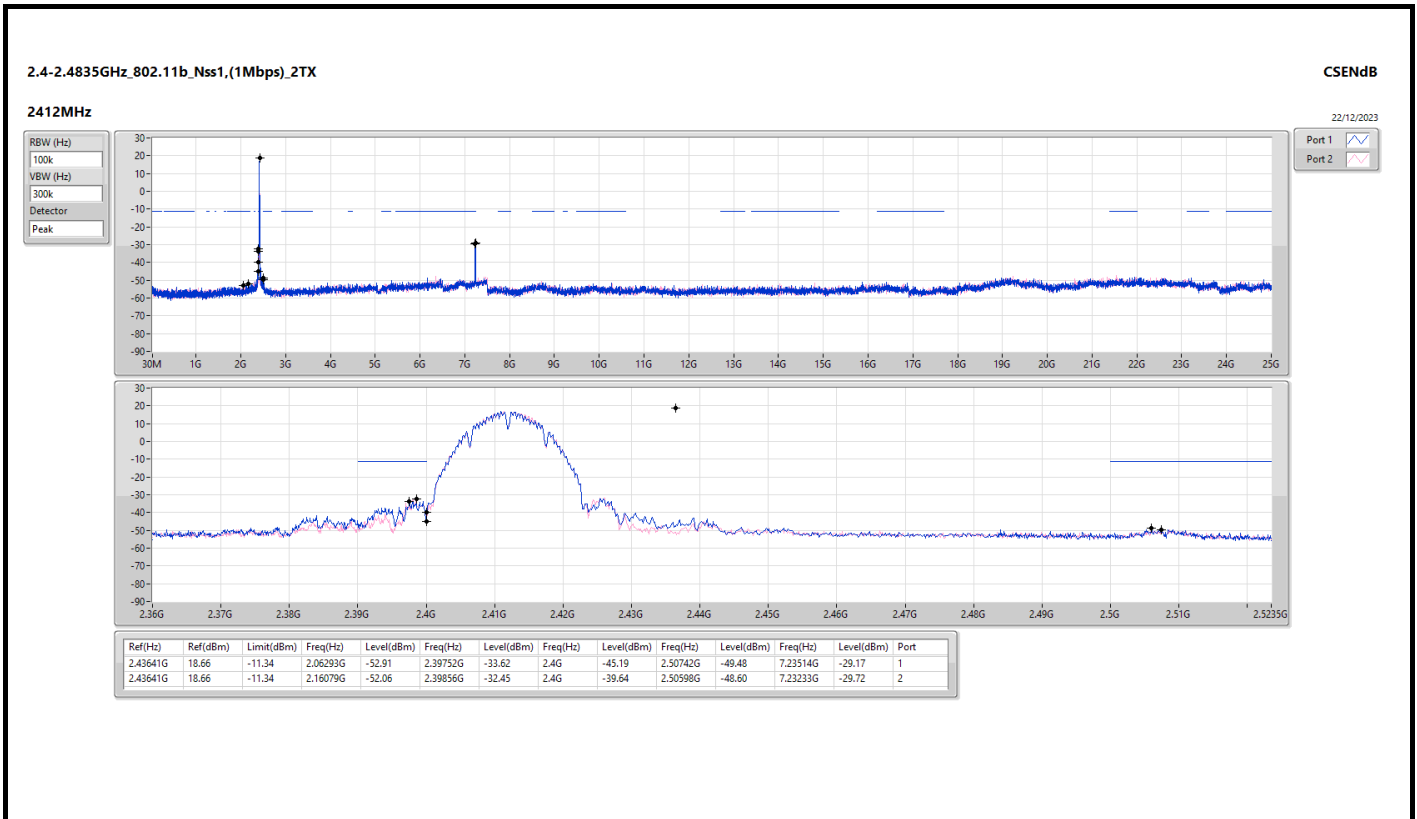


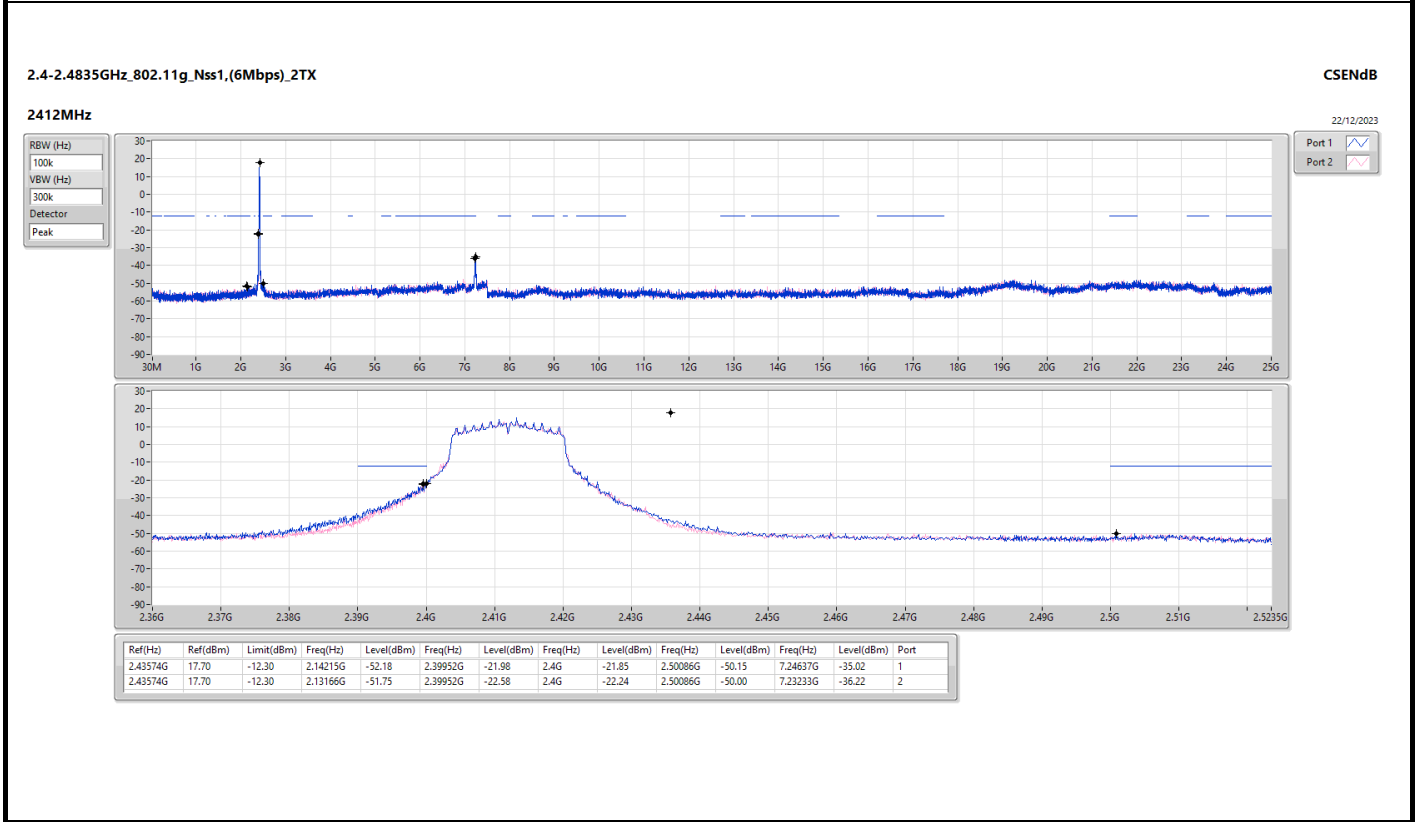
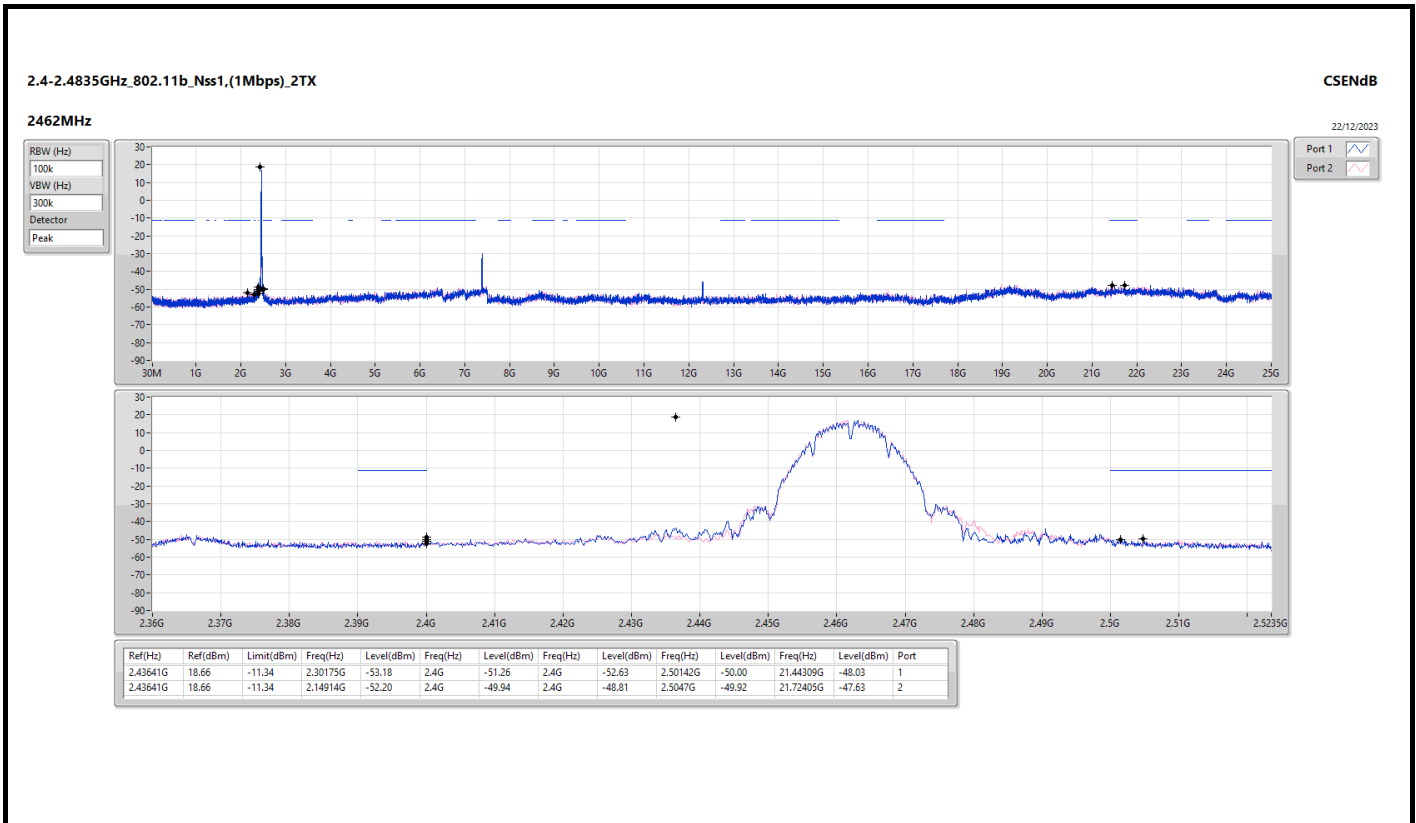
Summary

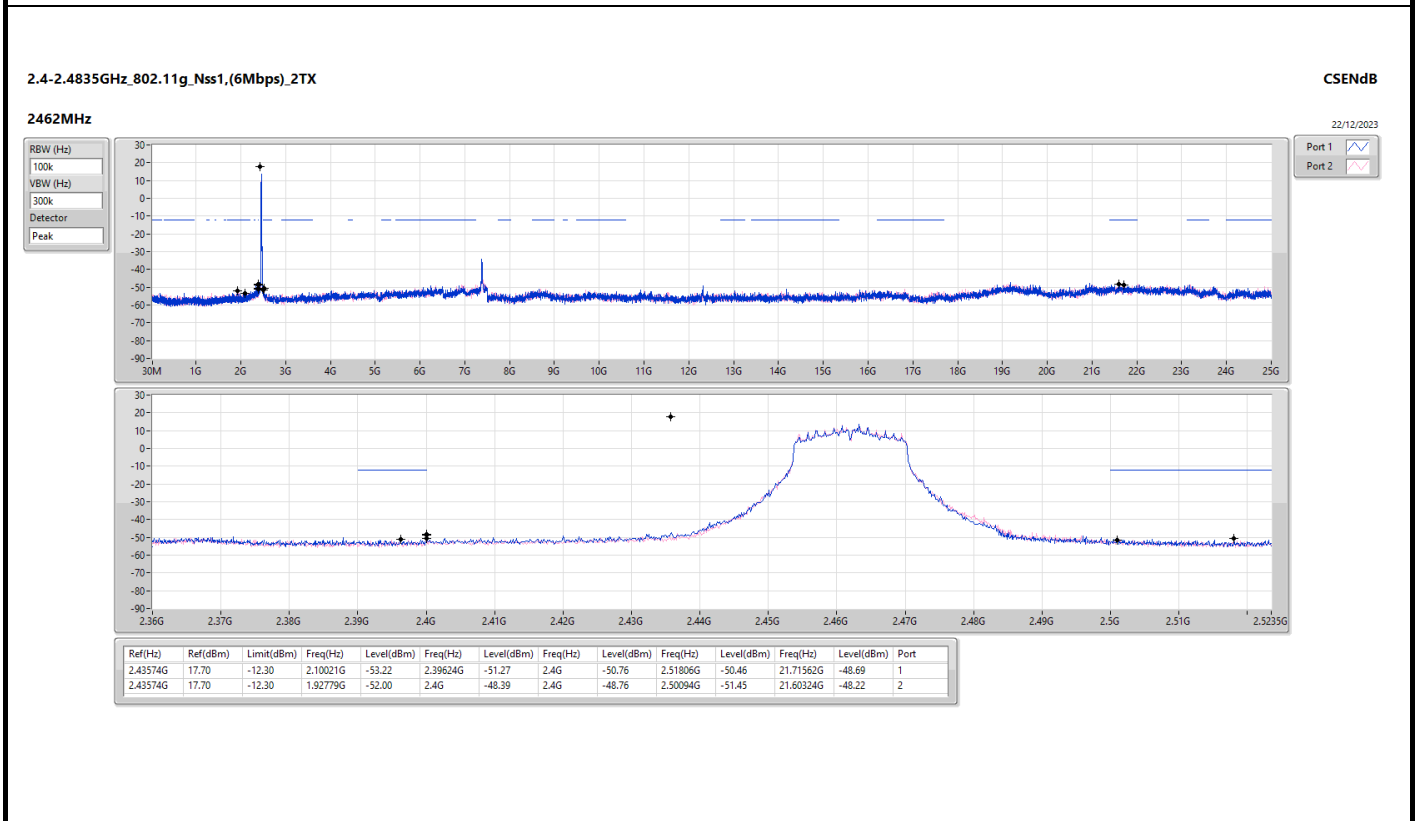
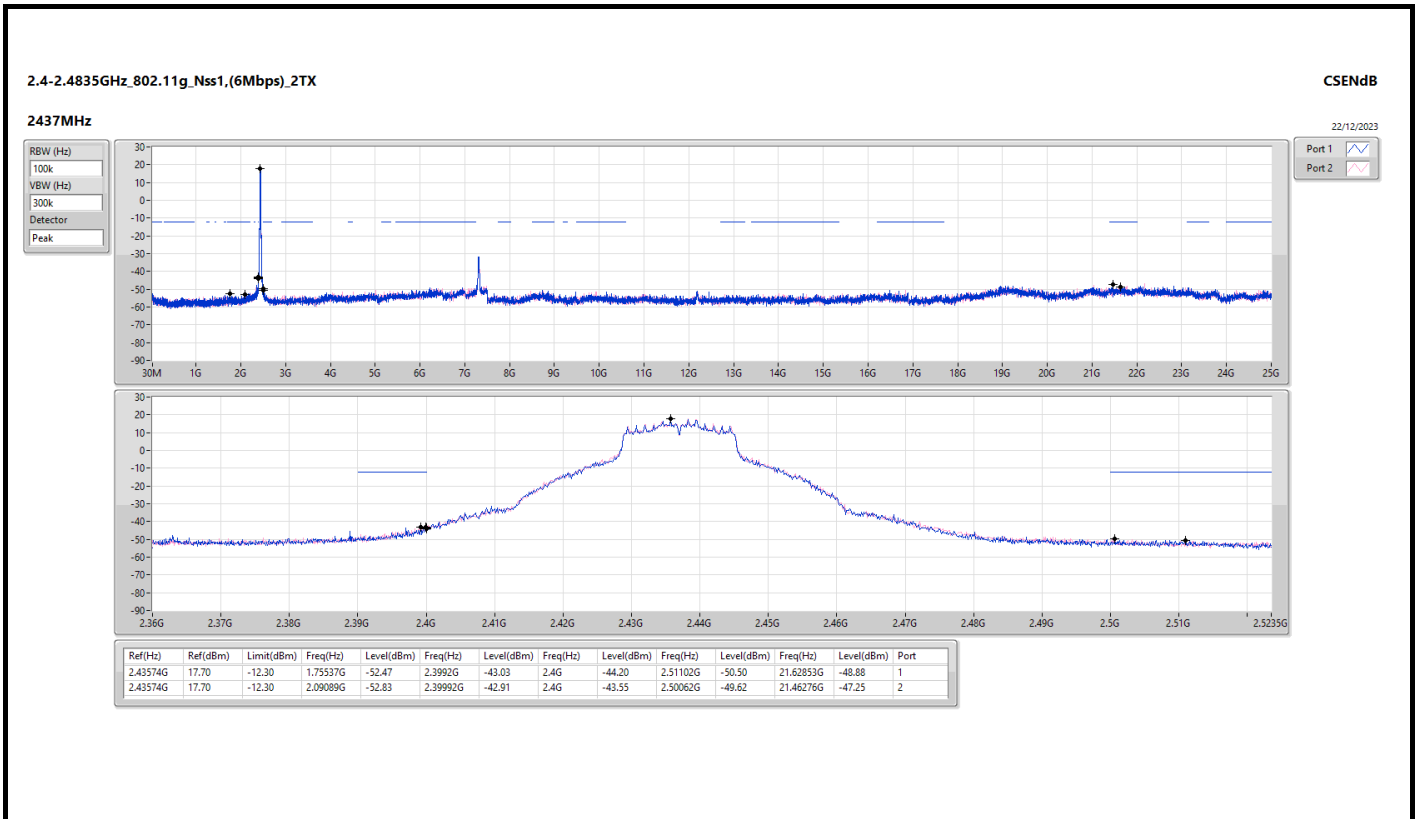
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43641G	18.66	-11.34	2.16079G	-52.06	2.39856G	-32.45	2.4G	-39.64	2.50598G	-48.60	7.23233G	-29.72	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	17.70	-12.30	2.14215G	-52.18	2.39952G	-21.98	2.4G	-21.85	2.50086G	-50.15	7.24637G	-35.02	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.43824G	17.64	-12.36	2.30874G	-52.65	2.39992G	-29.08	2.4G	-27.16	2.50334G	-51.11	7.23514G	-37.91	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.43607G	9.54	-20.46	2.0349G	-52.34	2.39968G	-33.59	2.4G	-33.53	2.50926G	-50.92	7.24992G	-43.11	2

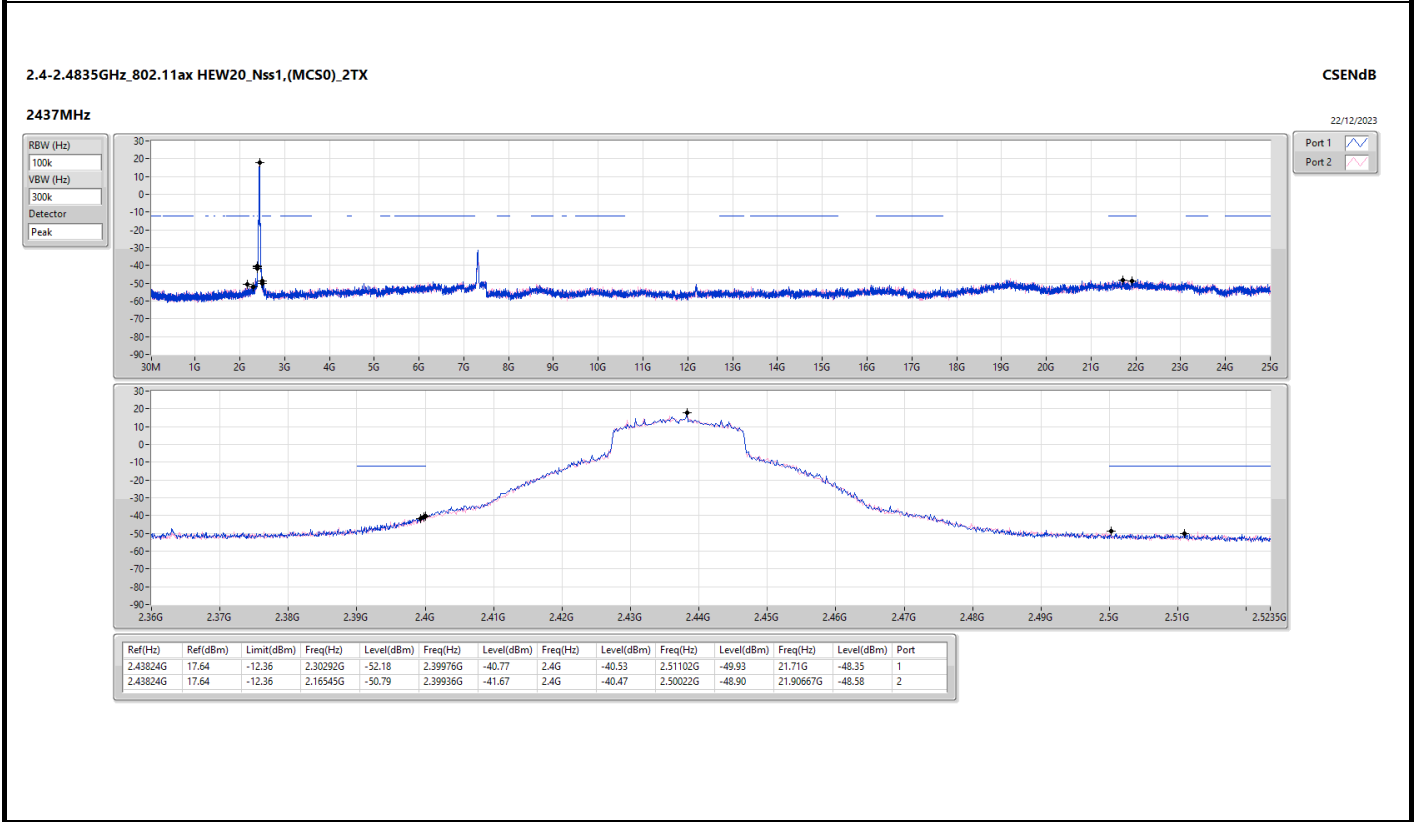
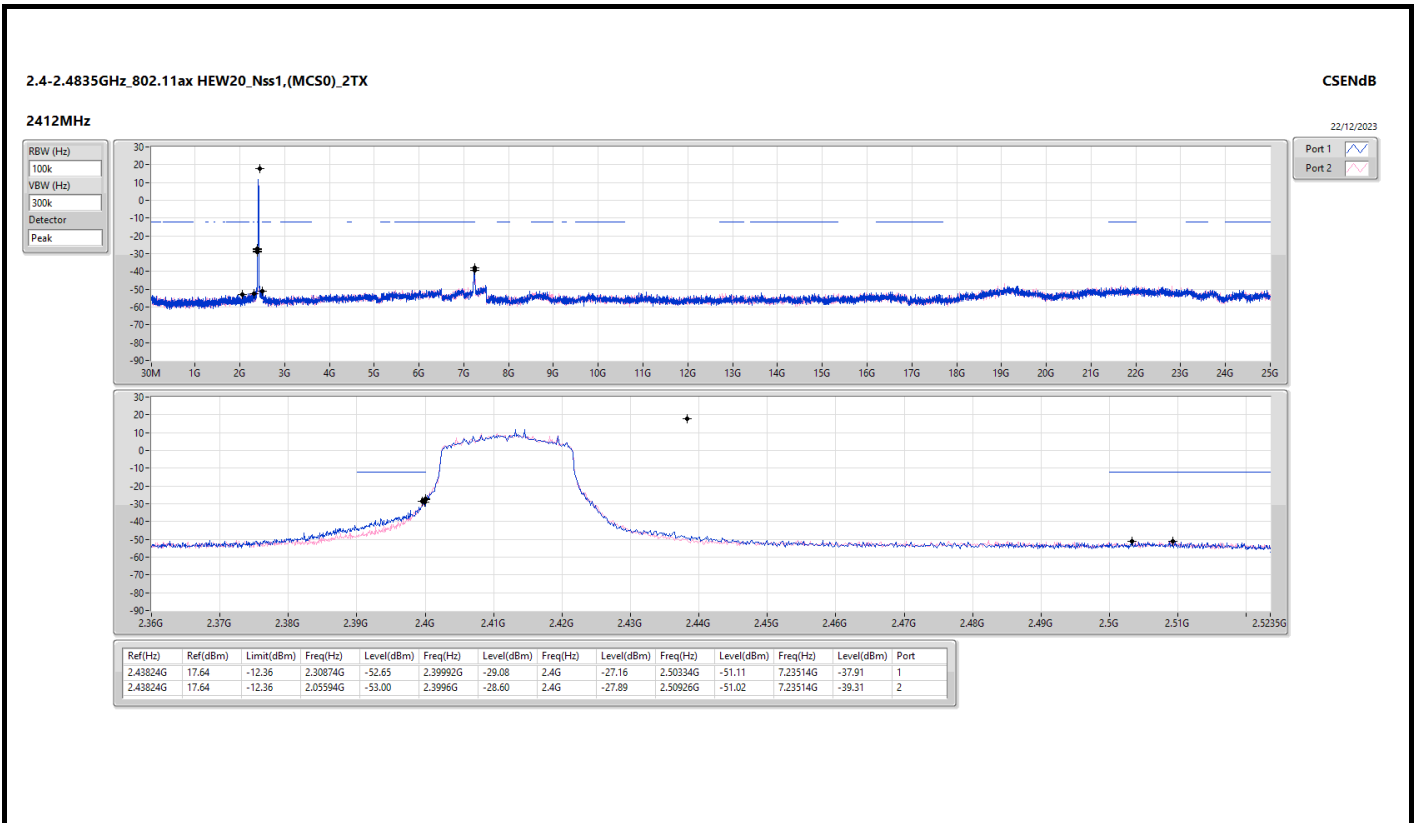
Result

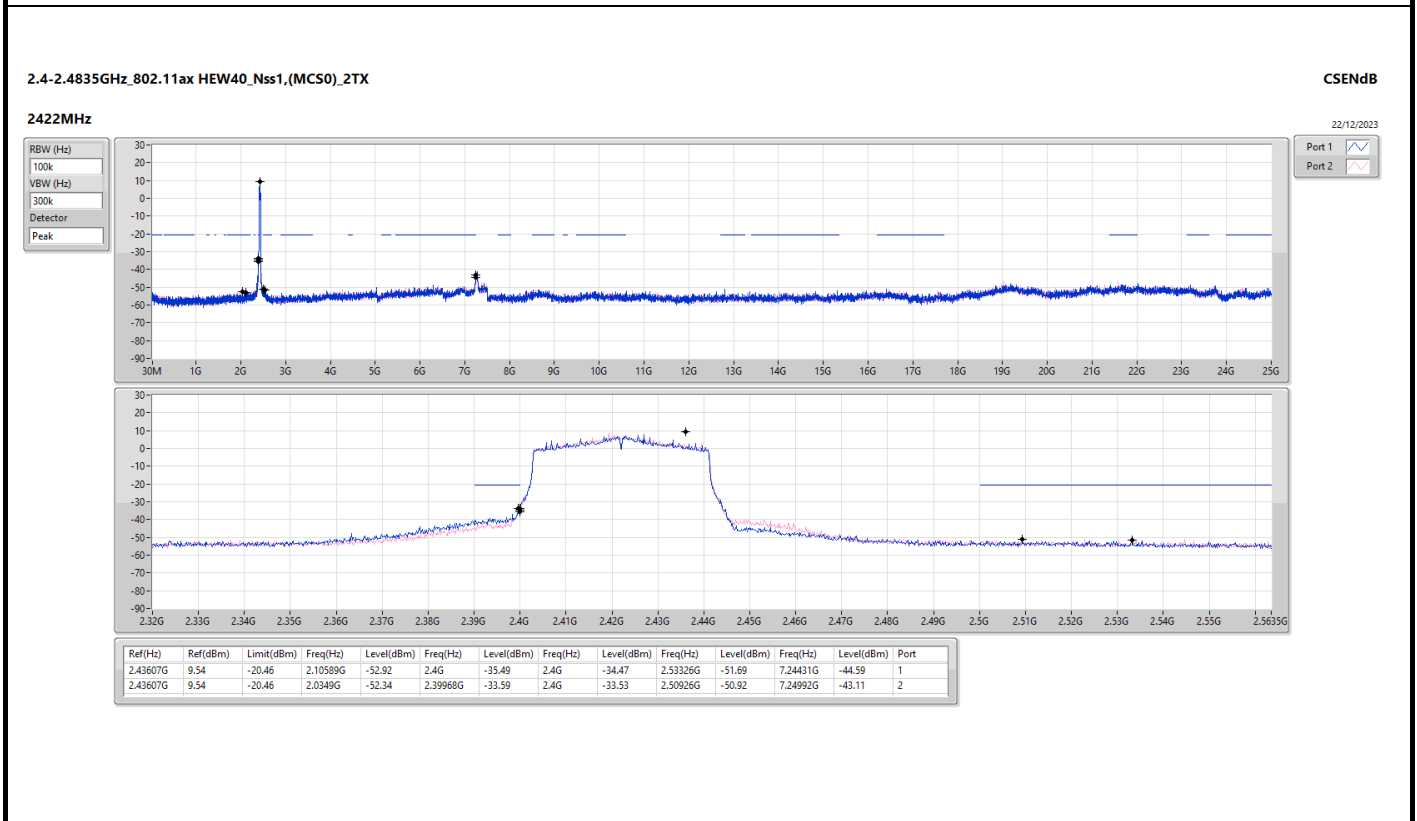
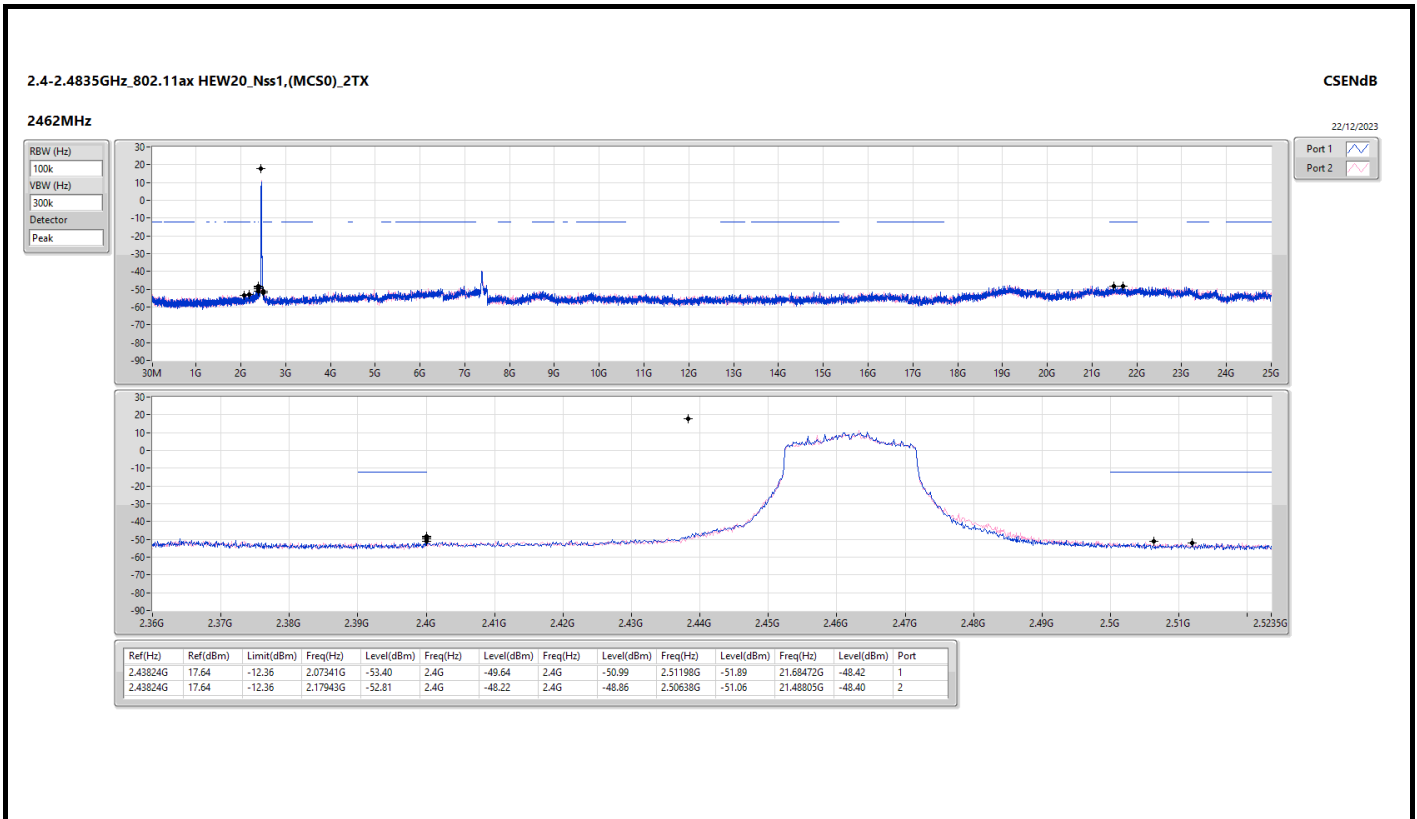
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43641G	18.66	-11.34	2.06293G	-52.91	2.39752G	-33.62	2.4G	-45.19	2.50742G	-49.48	7.23514G	-29.17	1
2412MHz	Pass	2.43641G	18.66	-11.34	2.16079G	-52.06	2.39856G	-32.45	2.4G	-39.64	2.50598G	-48.60	7.23233G	-29.72	2
2437MHz	Pass	2.43641G	18.66	-11.34	2.16312G	-51.46	2.39608G	-45.46	2.4G	-47.14	2.50486G	-50.56	21.56952G	-48.03	1
2437MHz	Pass	2.43641G	18.66	-11.34	2.30525G	-52.27	2.39728G	-45.51	2.4G	-46.28	2.50854G	-50.79	21.52738G	-47.73	2
2462MHz	Pass	2.43641G	18.66	-11.34	2.30175G	-53.18	2.4G	-51.26	2.4G	-52.63	2.50142G	-50.00	21.44309G	-48.03	1
2462MHz	Pass	2.43641G	18.66	-11.34	2.14914G	-52.20	2.4G	-49.94	2.4G	-48.81	2.5047G	-49.92	21.72405G	-47.63	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	17.70	-12.30	2.14215G	-52.18	2.39952G	-21.98	2.4G	-21.85	2.50086G	-50.15	7.24637G	-35.02	1
2412MHz	Pass	2.43574G	17.70	-12.30	2.13166G	-51.75	2.39952G	-22.58	2.4G	-22.24	2.50086G	-50.00	7.23233G	-36.22	2
2437MHz	Pass	2.43574G	17.70	-12.30	1.75537G	-52.47	2.3992G	-43.03	2.4G	-44.20	2.51102G	-50.50	21.62853G	-48.88	1
2437MHz	Pass	2.43574G	17.70	-12.30	2.09089G	-52.83	2.39992G	-42.91	2.4G	-43.55	2.50062G	-49.62	21.46276G	-47.25	2
2462MHz	Pass	2.43574G	17.70	-12.30	2.10021G	-53.22	2.39624G	-51.27	2.4G	-50.76	2.51806G	-50.46	21.71562G	-48.69	1
2462MHz	Pass	2.43574G	17.70	-12.30	1.92779G	-52.00	2.4G	-48.39	2.4G	-48.76	2.50094G	-51.45	21.60324G	-48.22	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	17.64	-12.36	2.30874G	-52.65	2.39992G	-29.08	2.4G	-27.16	2.50334G	-51.11	7.23514G	-37.91	1
2412MHz	Pass	2.43824G	17.64	-12.36	2.05594G	-53.00	2.3996G	-28.60	2.4G	-27.89	2.50926G	-51.02	7.23514G	-39.31	2
2437MHz	Pass	2.43824G	17.64	-12.36	2.30292G	-52.18	2.39976G	-40.77	2.4G	-40.53	2.51102G	-49.93	21.71G	-48.35	1
2437MHz	Pass	2.43824G	17.64	-12.36	2.16545G	-50.79	2.39936G	-41.67	2.4G	-40.47	2.50022G	-48.90	21.90667G	-48.58	2
2462MHz	Pass	2.43824G	17.64	-12.36	2.07341G	-53.40	2.4G	-49.64	2.4G	-50.99	2.51198G	-51.89	21.68472G	-48.42	1
2462MHz	Pass	2.43824G	17.64	-12.36	2.17943G	-52.81	2.4G	-48.22	2.4G	-48.86	2.50638G	-51.06	21.48805G	-48.40	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43607G	9.54	-20.46	2.10589G	-52.92	2.4G	-35.49	2.4G	-34.47	2.53326G	-51.69	7.24431G	-44.59	1
2422MHz	Pass	2.43607G	9.54	-20.46	2.0349G	-52.34	2.39968G	-33.59	2.4G	-33.53	2.50926G	-50.92	7.24992G	-43.11	2
2437MHz	Pass	2.43607G	9.54	-20.46	2.04635G	-52.01	2.4G	-36.56	2.4G	-37.46	2.5003G	-49.87	7.00032G	-48.85	1
2437MHz	Pass	2.43607G	9.54	-20.46	2.30168G	-52.64	2.39888G	-39.20	2.4G	-40.66	2.50414G	-50.80	23.16301G	-48.88	2
2452MHz	Pass	2.43607G	9.54	-20.46	1.89635G	-51.95	2.4G	-50.22	2.4G	-49.95	2.54478G	-51.25	21.65696G	-48.46	1
2452MHz	Pass	2.43607G	9.54	-20.46	2.30512G	-52.14	2.4G	-48.92	2.4G	-49.17	2.50094G	-49.74	21.66538G	-48.15	2

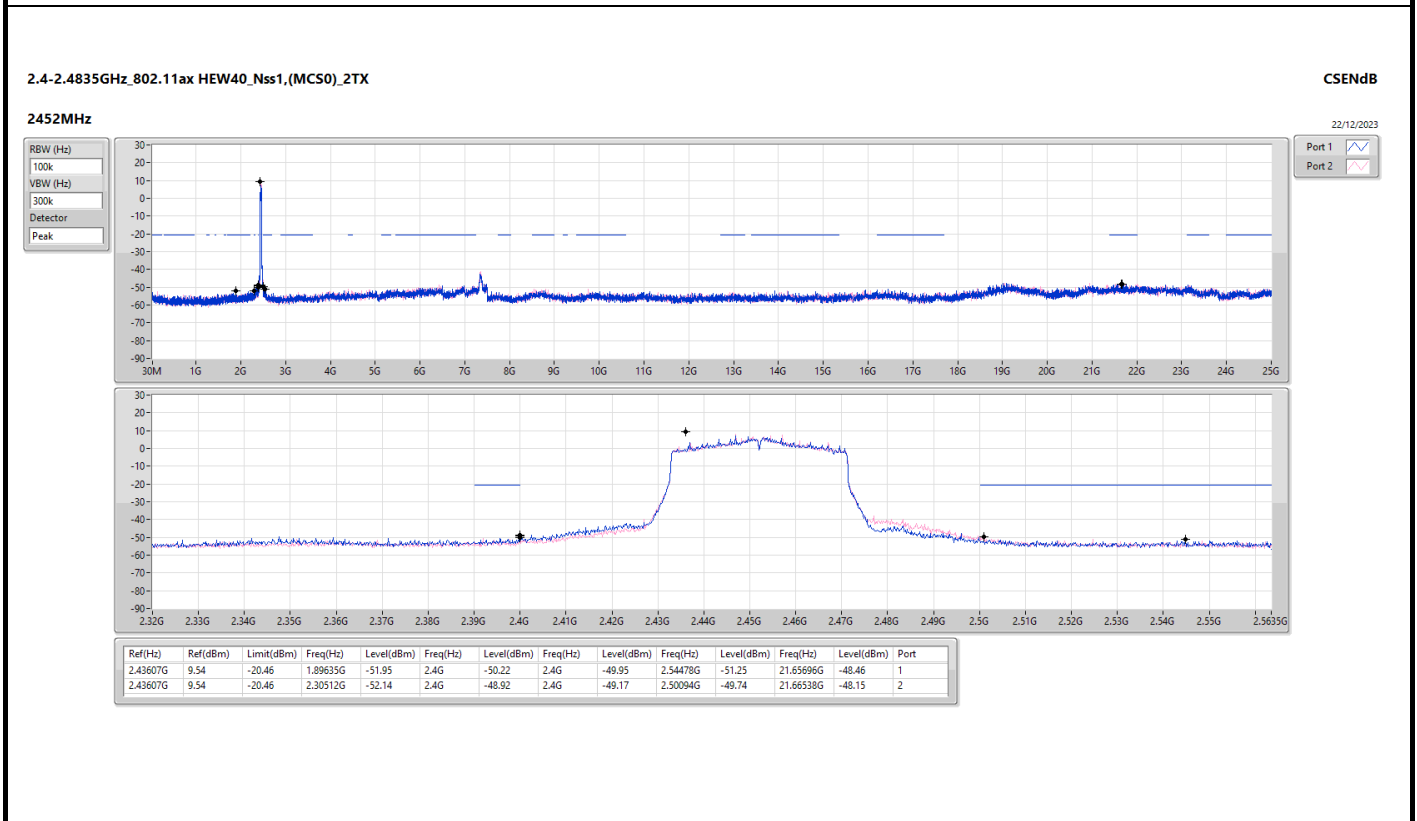
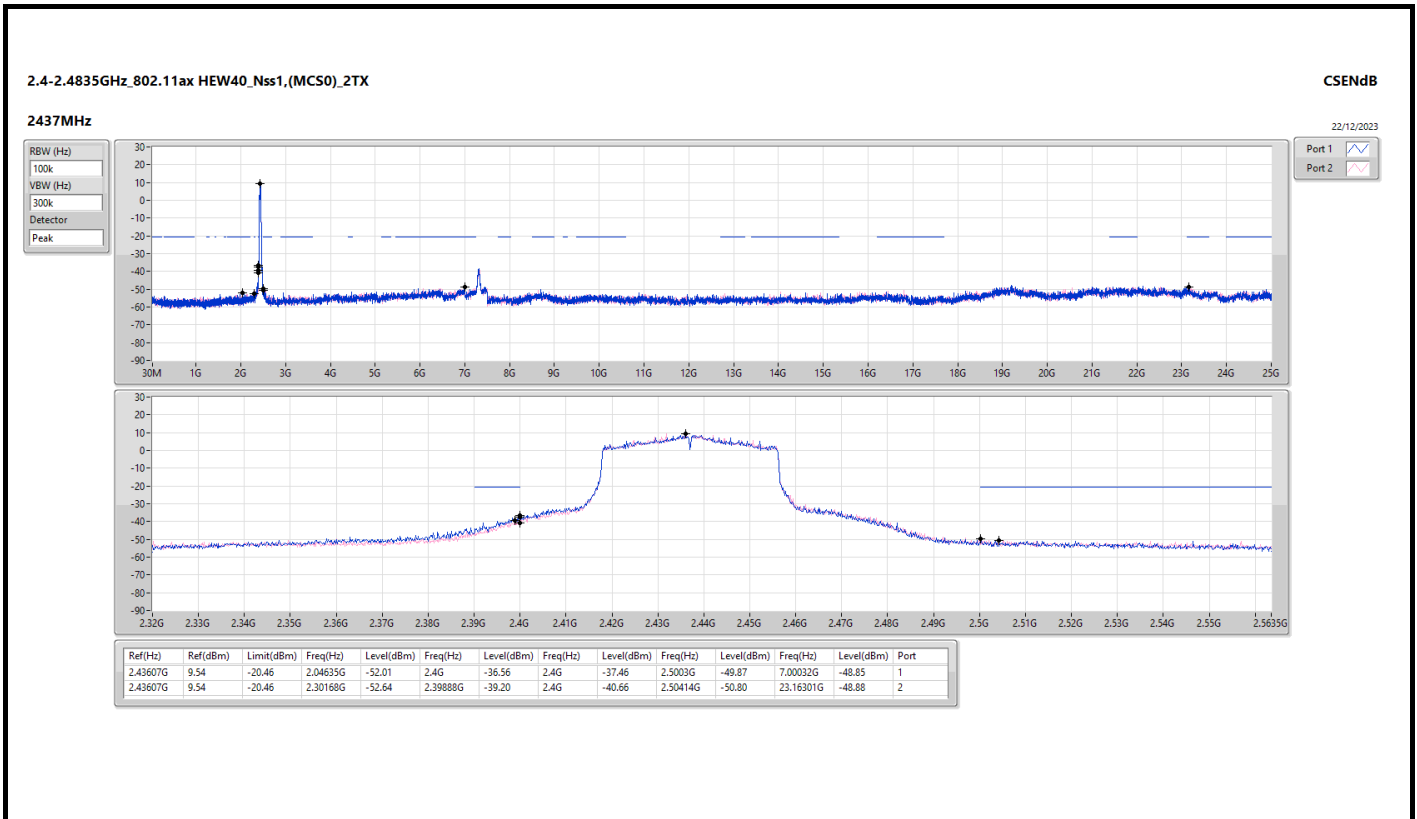








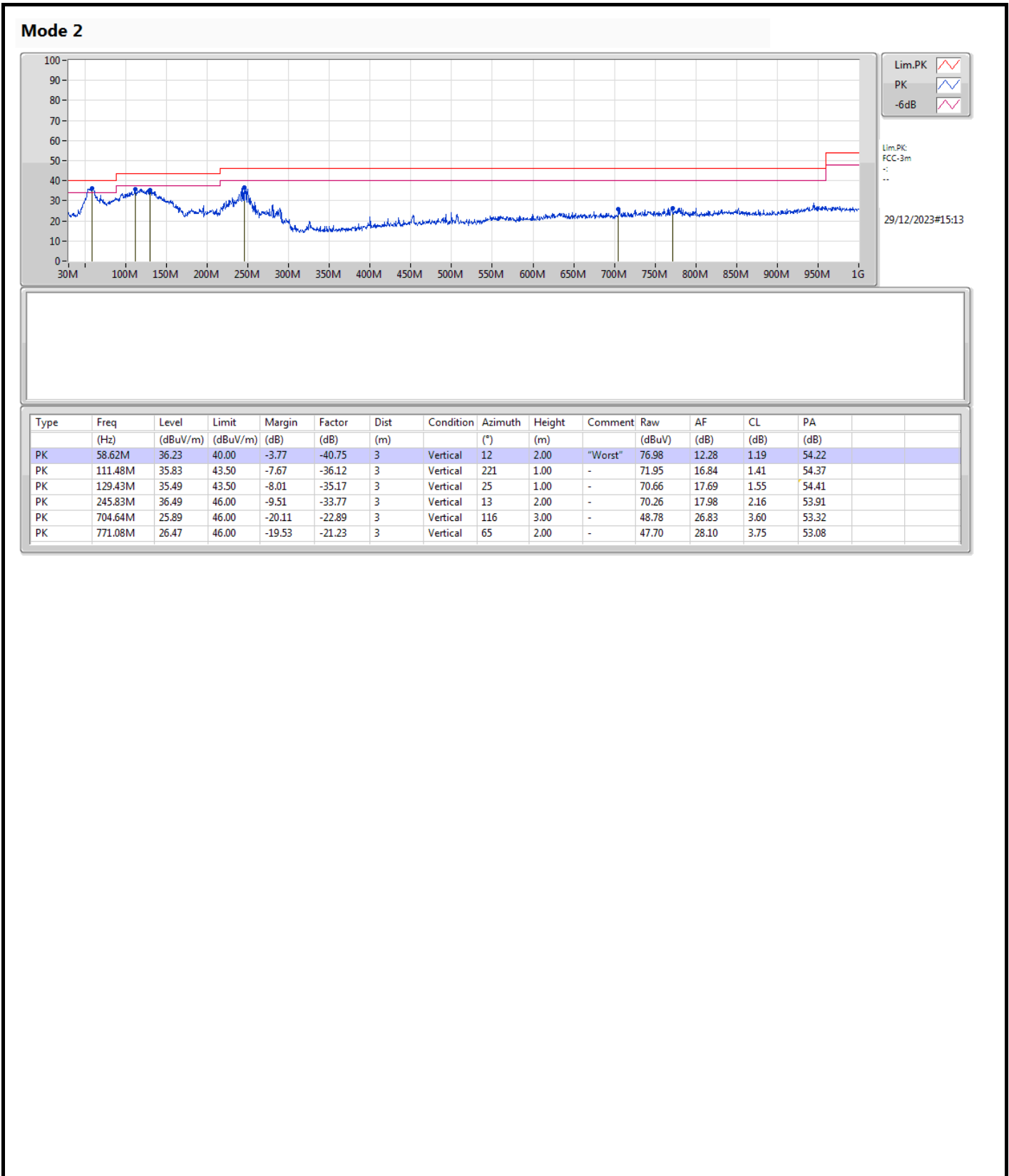


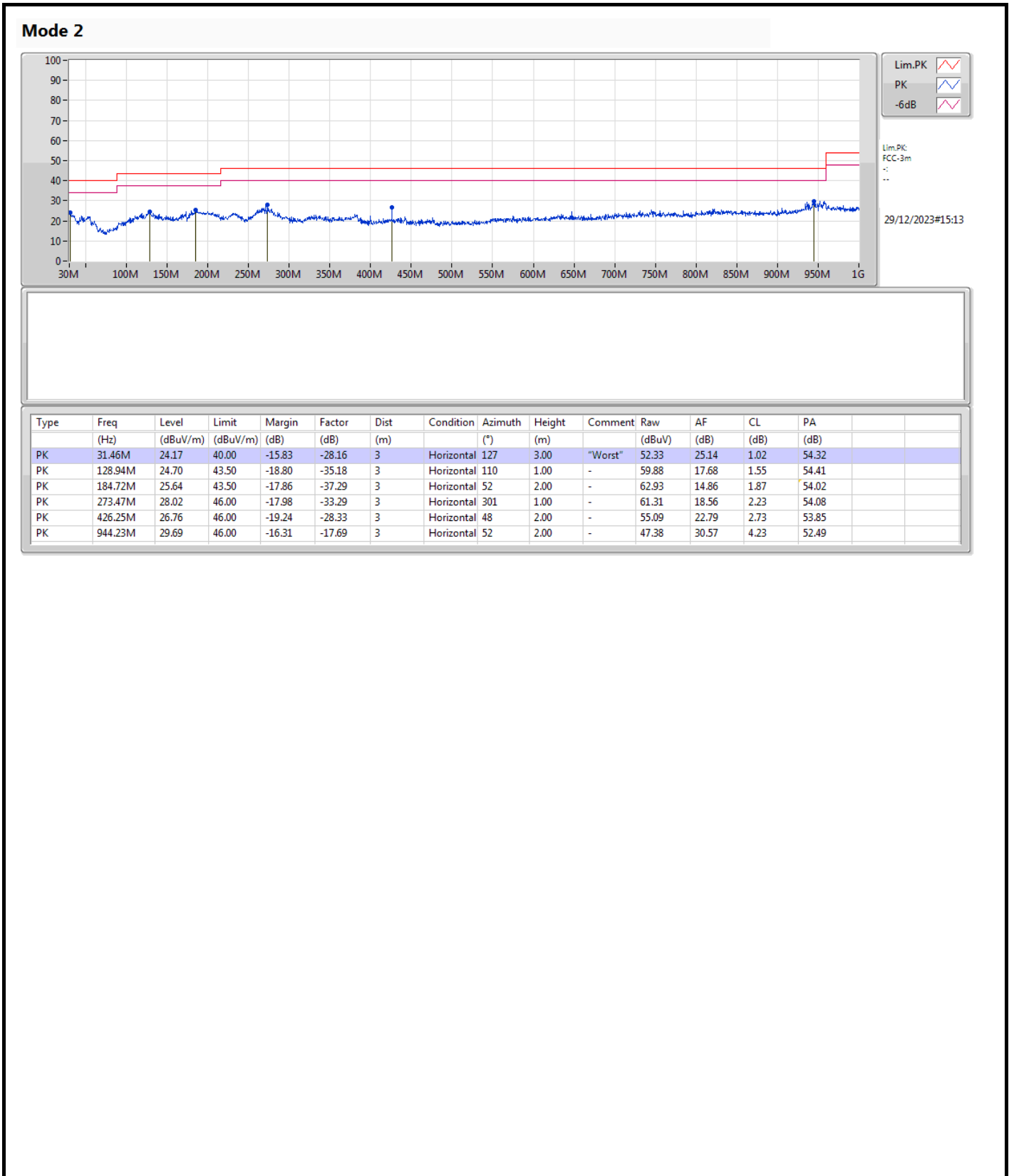




Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	58.62M	36.23	40.00	-3.77	Vertical





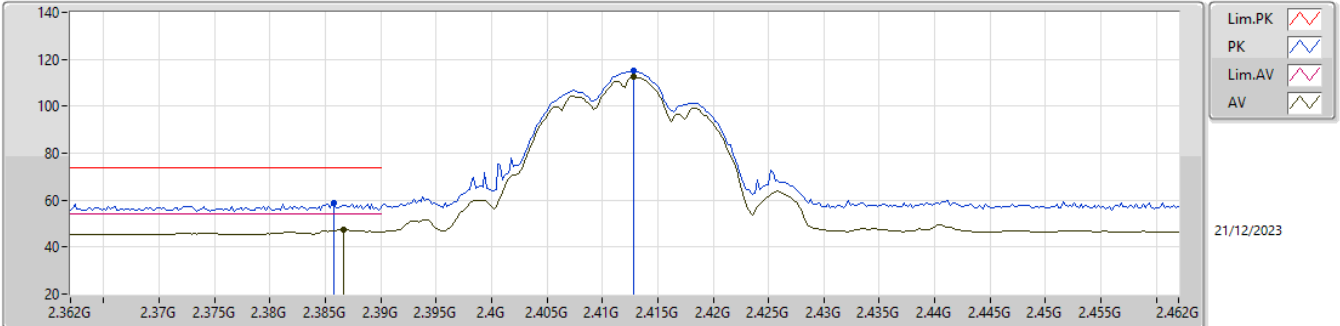


Summary

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 HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.94	54.00	-0.06	3	Vertical	30	2.62	23

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

2412MHz_TX

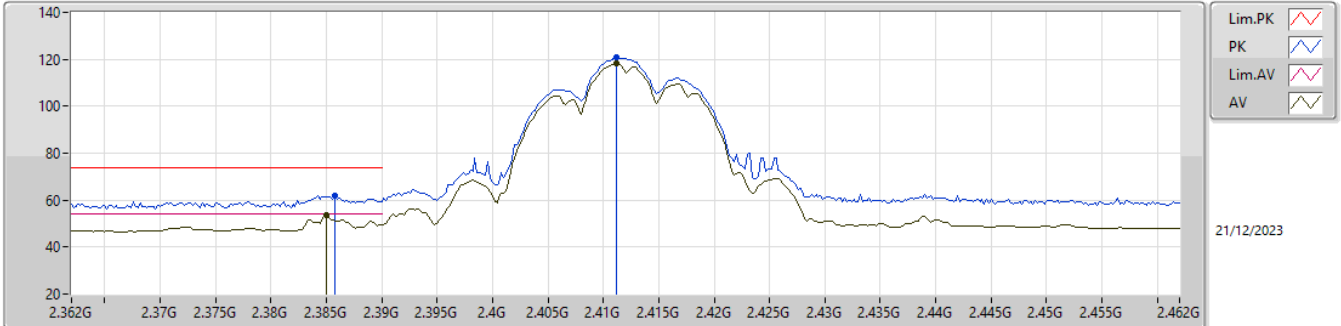


EUT_Y_2TX
Setting 26
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	58.66	74.00	-15.34	27.92	3	Vertical	40	2.40	-	27.40	3.34	-
AV	2.3866G	47.64	54.00	-6.36	16.90	3	Vertical	40	2.40	-	27.40	3.34	-
PK	2.4128G	115.07	Inf	-Inf	84.21	3	Vertical	40	2.40	-	27.50	3.36	-
AV	2.4128G	112.72	Inf	-Inf	81.86	3	Vertical	40	2.40	-	27.50	3.36	-

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

2412MHz_TX

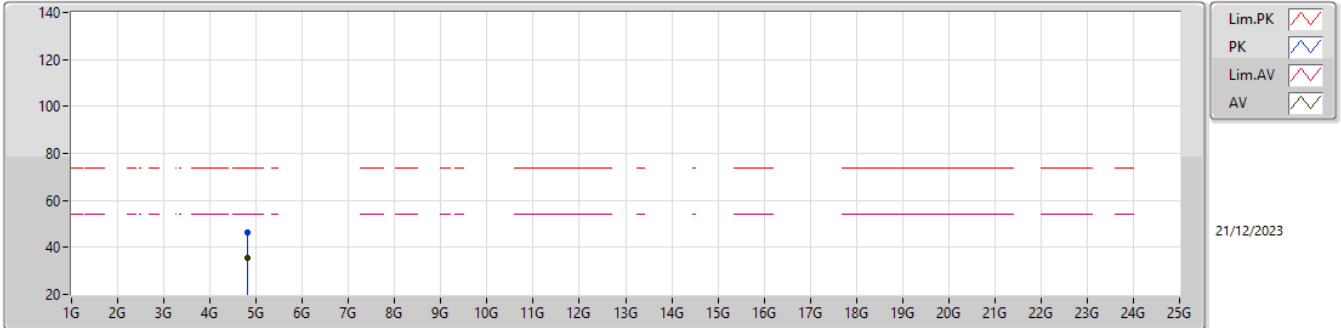


EUT_Y_2TX
Setting 26
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	61.88	74.00	-12.12	31.14	3	Horizontal	72	2.49	-	27.40	3.34	-
AV	2.385G	53.55	54.00	-0.45	22.81	3	Horizontal	72	2.49	-	27.40	3.34	-
PK	2.4112G	120.66	Inf	-Inf	89.80	3	Horizontal	72	2.49	-	27.50	3.36	-
AV	2.4112G	118.38	Inf	-Inf	87.52	3	Horizontal	72	2.49	-	27.50	3.36	-

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

2412MHz_TX

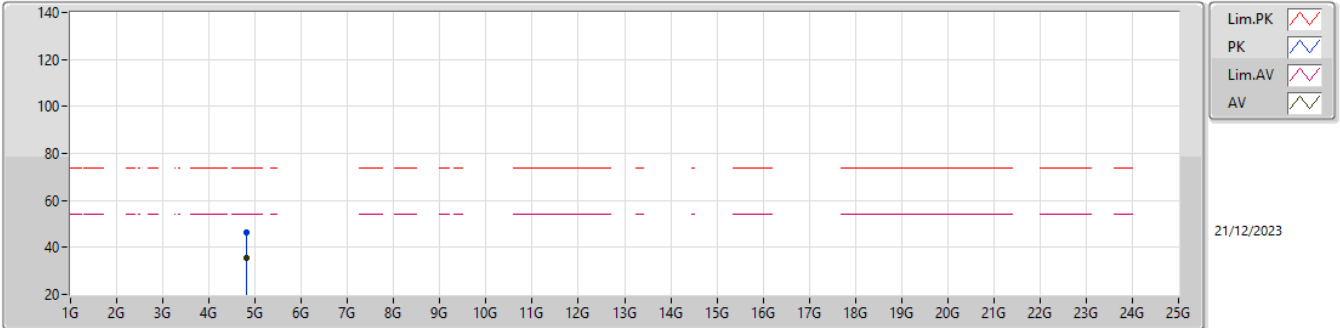


EUT_Y_2TX
Setting 26
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82388G	46.48	74.00	-27.52	41.73	3	Vertical	33	1.65	-	32.35	5.67	33.27
AV	4.82396G	35.54	54.00	-18.46	30.79	3	Vertical	33	1.65	-	32.35	5.67	33.27

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

2412MHz_TX

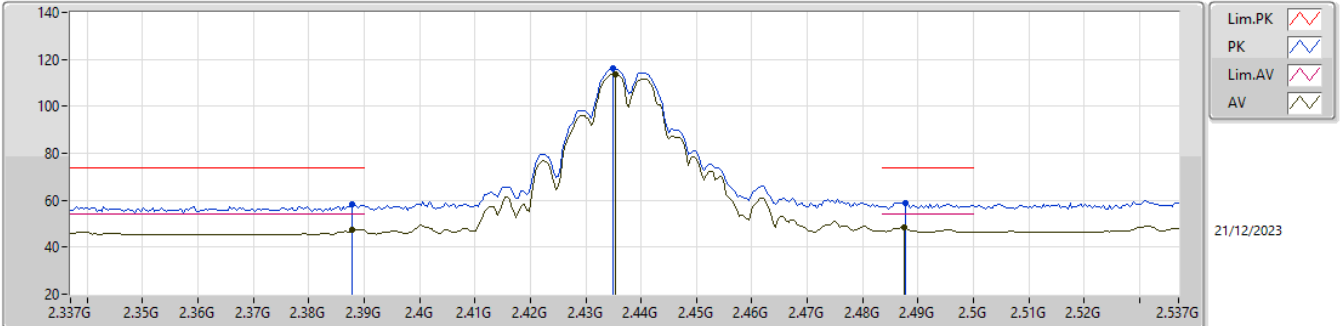


EUT_Y_2TX
 Setting 26
 04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82404G	46.14	74.00	-27.86	41.39	3	Horizontal	69	1.78	-	32.35	5.67	33.27
AV	4.82396G	35.48	54.00	-18.52	30.73	3	Horizontal	69	1.78	-	32.35	5.67	33.27

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

2437MHz_TX

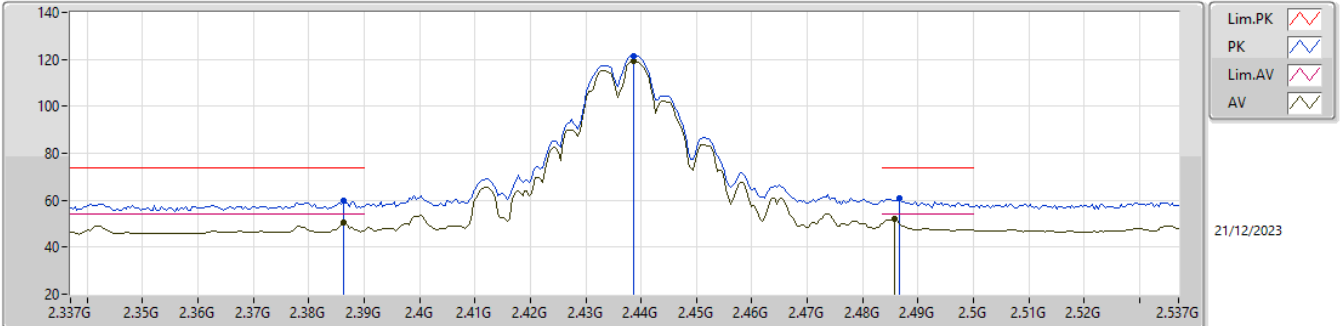


EUT_Y_2TX
 Setting 28.5
 04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	58.36	74.00	-15.64	27.61	3	Vertical	40	2.70	-	27.40	3.35	-
AV	2.3878G	47.66	54.00	-6.34	16.91	3	Vertical	40	2.70	-	27.40	3.35	-
PK	2.435G	115.95	Inf	-Inf	85.03	3	Vertical	40	2.70	-	27.55	3.37	-
AV	2.4354G	113.79	Inf	-Inf	82.87	3	Vertical	40	2.70	-	27.55	3.37	-
PK	2.4878G	59.03	74.00	-14.97	27.95	3	Vertical	40	2.70	-	27.68	3.40	-
AV	2.4874G	48.52	54.00	-5.48	17.45	3	Vertical	40	2.70	-	27.67	3.40	-

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

2437MHz_TX

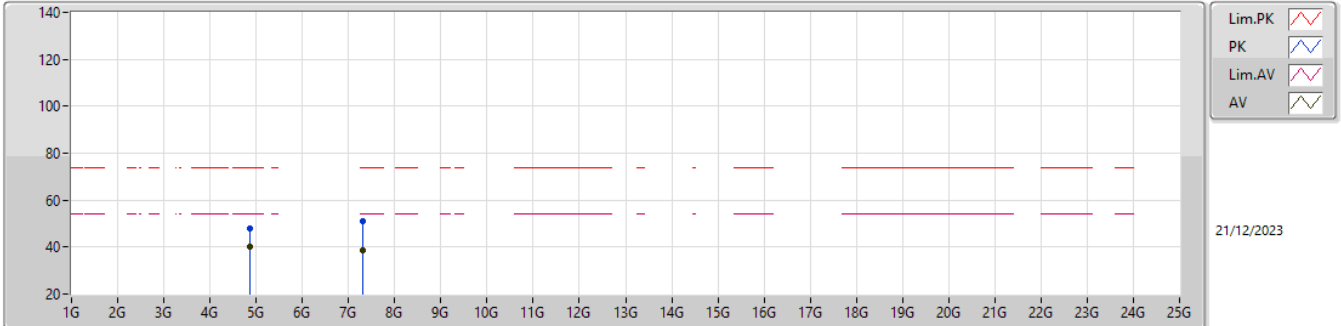


EUT_Y_2TX
 Setting 28.5
 04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	59.69	74.00	-14.31	28.95	3	Horizontal	54	2.21	-	27.40	3.34	-
AV	2.3862G	50.28	54.00	-3.72	19.54	3	Horizontal	54	2.21	-	27.40	3.34	-
PK	2.4386G	121.60	Inf	-Inf	90.64	3	Horizontal	54	2.21	-	27.59	3.37	-
AV	2.4386G	119.42	Inf	-Inf	88.46	3	Horizontal	54	2.21	-	27.59	3.37	-
PK	2.4866G	60.62	74.00	-13.38	29.55	3	Horizontal	54	2.21	-	27.67	3.40	-
AV	2.4858G	51.90	54.00	-2.10	20.84	3	Horizontal	54	2.21	-	27.66	3.40	-

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

2437MHz_TX

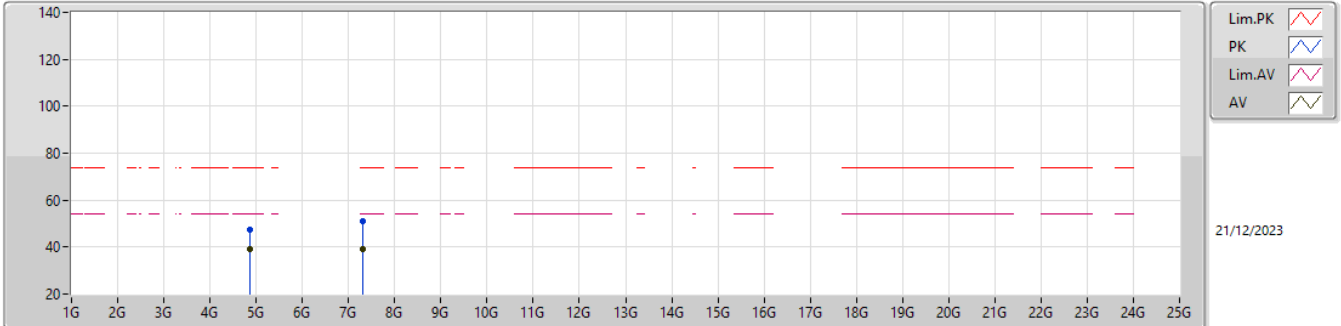


EUT_Y_2TX
Setting 28.5
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8742G	47.83	74.00	-26.17	42.87	3	Vertical	9	2.06	-	32.50	5.72	33.26
AV	4.87396G	40.13	54.00	-13.87	35.17	3	Vertical	9	2.06	-	32.50	5.72	33.26
PK	7.30888G	51.22	74.00	-22.78	40.99	3	Vertical	325	1.09	-	37.20	7.12	34.09
AV	7.301G	38.86	54.00	-15.14	28.63	3	Vertical	325	1.09	-	37.20	7.12	34.09

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

2437MHz_TX

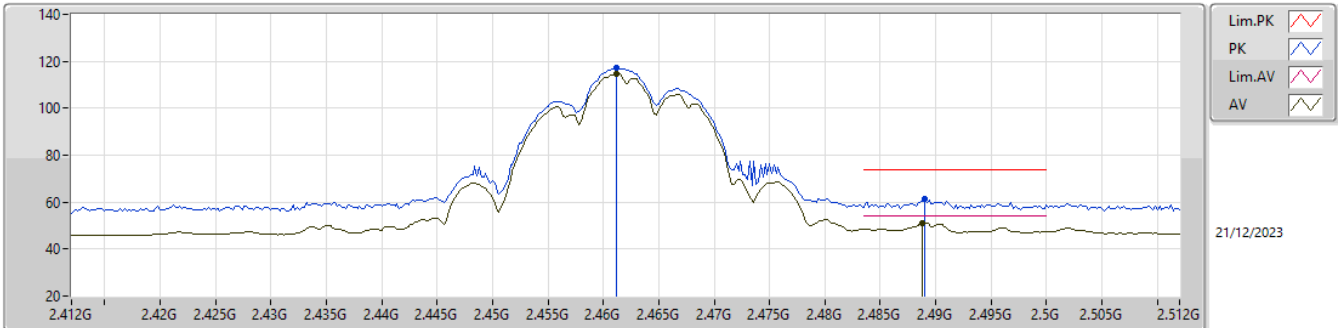


EUT_Y_2TX
Setting 28.5
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87424G	47.17	74.00	-26.83	42.21	3	Horizontal	74	2.09	-	32.50	5.72	33.26
AV	4.874G	39.00	54.00	-15.00	34.04	3	Horizontal	74	2.09	-	32.50	5.72	33.26
PK	7.31512G	51.26	74.00	-22.74	41.04	3	Horizontal	161	1.01	-	37.20	7.12	34.10
AV	7.301G	38.93	54.00	-15.07	28.70	3	Horizontal	161	1.01	-	37.20	7.12	34.09

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

2462MHz_TX

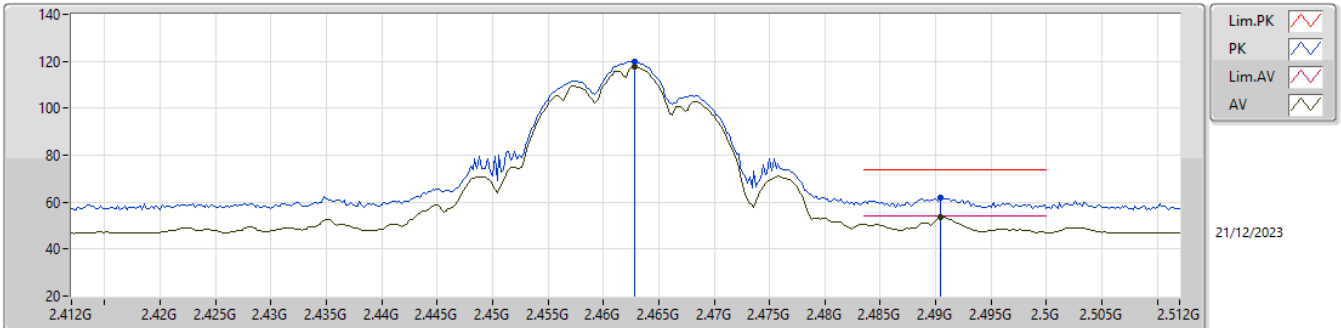


EUT_Y_2TX
Setting 26
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4612G	117.20	Inf	-Inf	86.22	3	Vertical	18	2.53	-	27.60	3.38	-
AV	2.4612G	114.86	Inf	-Inf	83.88	3	Vertical	18	2.53	-	27.60	3.38	-
PK	2.489G	61.17	74.00	-12.83	30.08	3	Vertical	18	2.53	-	27.69	3.40	-
AV	2.4888G	51.24	54.00	-2.76	20.15	3	Vertical	18	2.53	-	27.69	3.40	-

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

2462MHz_TX

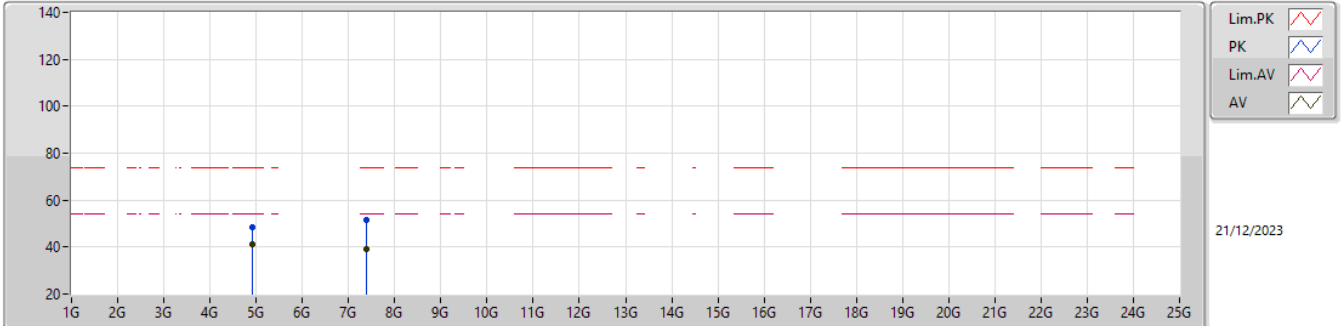


EUT_Y_2TX
 Setting 26
 04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4628G	120.02	Inf	-Inf	89.04	3	Horizontal	85	1.91	-	27.60	3.38	-
AV	2.4628G	117.74	Inf	-Inf	86.76	3	Horizontal	85	1.91	-	27.60	3.38	-
PK	2.4904G	61.76	74.00	-12.24	30.66	3	Horizontal	85	1.91	-	27.70	3.40	-
AV	2.4904G	53.53	54.00	-0.47	22.43	3	Horizontal	85	1.91	-	27.70	3.40	-

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

2462MHz_TX

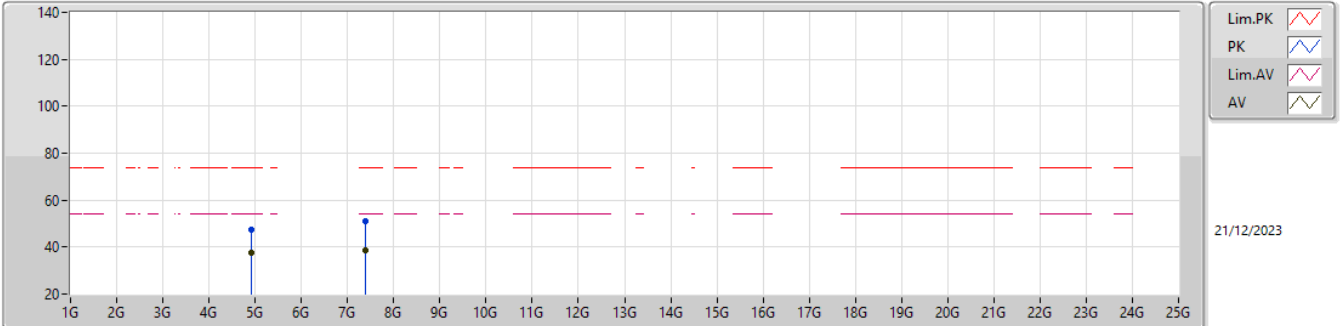


EUT_Y_2TX
Setting 26
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92416G	48.60	74.00	-25.40	43.43	3	Vertical	-0	2.00	-	32.65	5.76	33.24
AV	4.924G	41.40	54.00	-12.60	36.23	3	Vertical	-0	2.00	-	32.65	5.76	33.24
PK	7.38092G	51.59	74.00	-22.41	41.35	3	Vertical	360	1.80	-	37.20	7.16	34.12
AV	7.37984G	38.90	54.00	-15.10	28.66	3	Vertical	360	1.80	-	37.20	7.16	34.12

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

2462MHz_TX

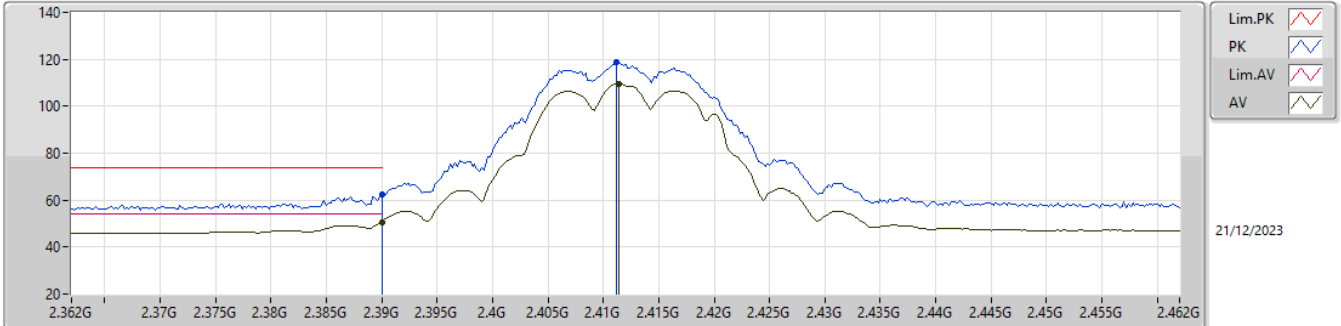


EUT_Y_2TX
Setting 26
04-L-P-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92376G	47.22	74.00	-26.78	42.05	3	Horizontal	74	2.04	-	32.65	5.76	33.24
AV	4.924G	37.67	54.00	-16.33	32.50	3	Horizontal	74	2.04	-	32.65	5.76	33.24
PK	7.3832G	50.84	74.00	-23.16	40.60	3	Horizontal	99	1.28	-	37.20	7.16	34.12
AV	7.37656G	38.81	54.00	-15.19	28.57	3	Horizontal	99	1.28	-	37.20	7.16	34.12

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

2412MHz_TX

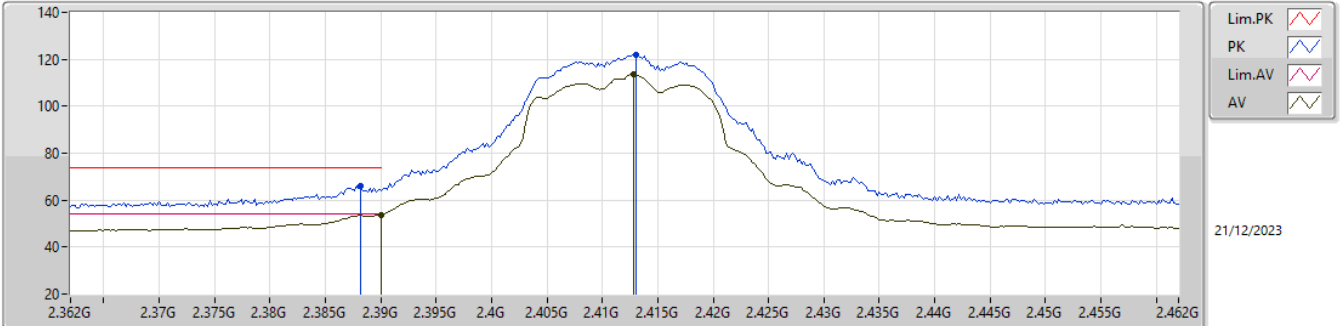


EUT_Y_2TX
Setting 24.5
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	62.33	74.00	-11.67	31.58	3	Vertical	38	2.83	-	27.40	3.35	-
AV	2.39G	50.63	54.00	-3.37	19.88	3	Vertical	38	2.83	-	27.40	3.35	-
PK	2.4112G	118.79	Inf	-Inf	87.93	3	Vertical	38	2.83	-	27.50	3.36	-
AV	2.4114G	109.71	Inf	-Inf	78.85	3	Vertical	38	2.83	-	27.50	3.36	-

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

2412MHz_TX

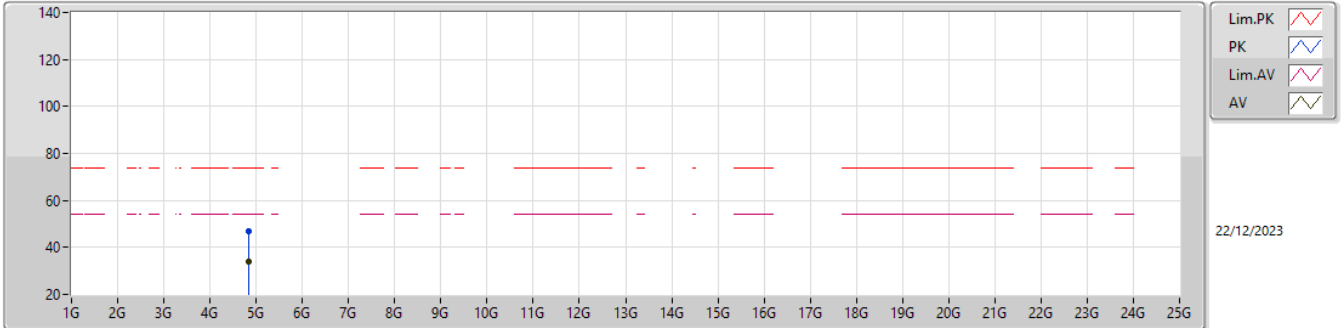


EUT_Y_2TX
 Setting 24.5
 04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	65.84	74.00	-8.16	35.09	3	Horizontal	298	1.80	-	27.40	3.35	-
AV	2.39G	53.59	54.00	-0.41	22.84	3	Horizontal	298	1.80	-	27.40	3.35	-
PK	2.413G	121.92	Inf	-Inf	91.06	3	Horizontal	298	1.80	-	27.50	3.36	-
AV	2.4128G	113.44	Inf	-Inf	82.58	3	Horizontal	298	1.80	-	27.50	3.36	-

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

2412MHz_TX

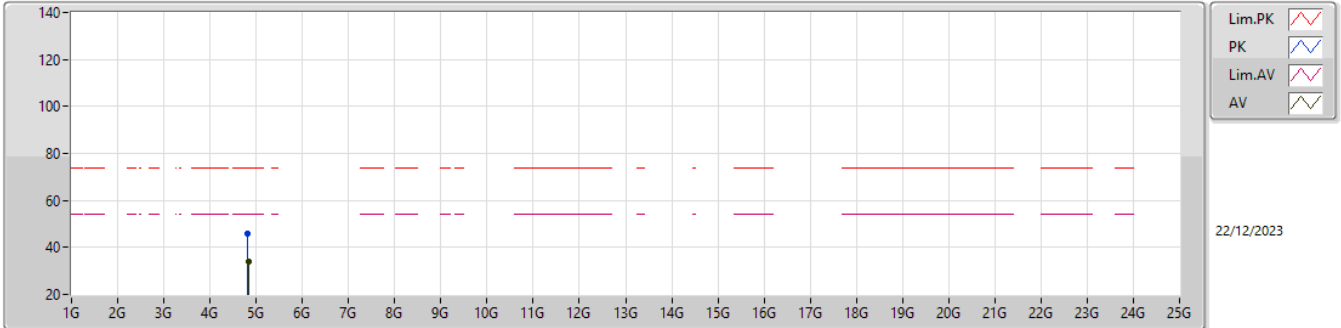


EUT_Y_2TX
 Setting 24.5
 04-L-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82864G	46.75	74.00	-27.25	41.98	3	Vertical	36	1.60	-	32.36	5.68	33.27
AV	4.82696G	34.19	54.00	-19.81	29.44	3	Vertical	36	1.60	-	32.35	5.67	33.27

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

2412MHz_TX

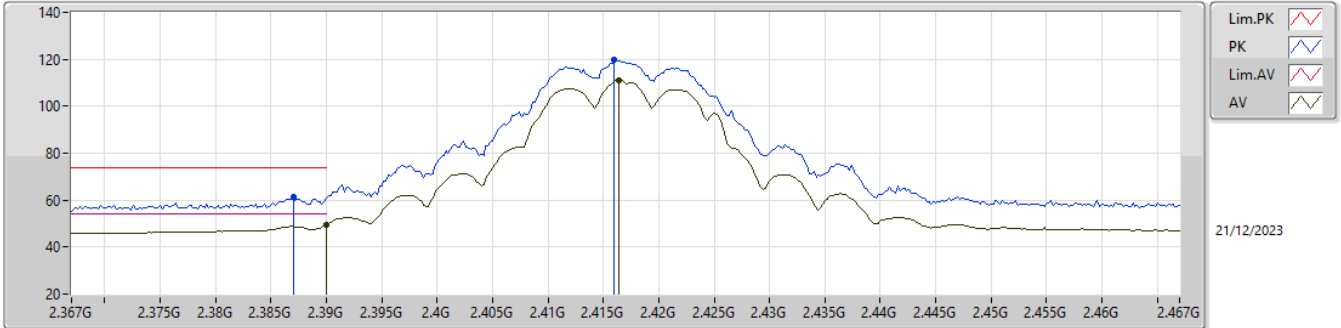


EUT_Y_2TX
 Setting 24.5
 04-L-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82208G	45.95	74.00	-28.05	41.21	3	Horizontal	56	2.00	-	32.34	5.67	33.27
AV	4.82644G	33.92	54.00	-20.08	29.17	3	Horizontal	56	2.00	-	32.35	5.67	33.27

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

2417MHz_TX

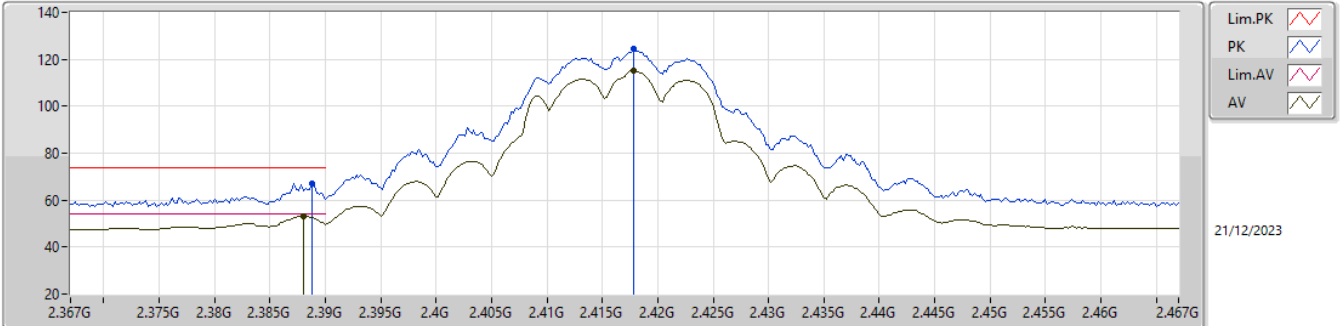


EUT_Y_2TX
 Setting 25.5
 04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	61.20	74.00	-12.80	30.46	3	Vertical	36	2.83	-	27.40	3.34	-
AV	2.39G	49.53	54.00	-4.47	18.78	3	Vertical	36	2.83	-	27.40	3.35	-
PK	2.416G	119.69	Inf	-Inf	88.83	3	Vertical	36	2.83	-	27.50	3.36	-
AV	2.4164G	110.88	Inf	-Inf	80.02	3	Vertical	36	2.83	-	27.50	3.36	-

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

2417MHz_TX

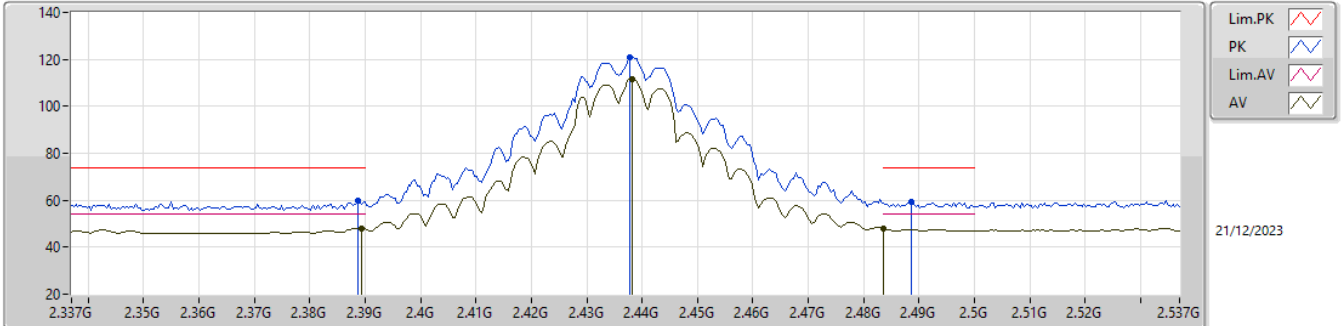


EUT_Y_2TX
 Setting 25.5
 04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	66.92	74.00	-7.08	36.17	3	Horizontal	58	2.16	-	27.40	3.35	-
AV	2.388G	53.04	54.00	-0.96	22.29	3	Horizontal	58	2.16	-	27.40	3.35	-
PK	2.4178G	124.32	Inf	-Inf	93.46	3	Horizontal	58	2.16	-	27.50	3.36	-
AV	2.4178G	115.10	Inf	-Inf	84.24	3	Horizontal	58	2.16	-	27.50	3.36	-

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

2437MHz_TX

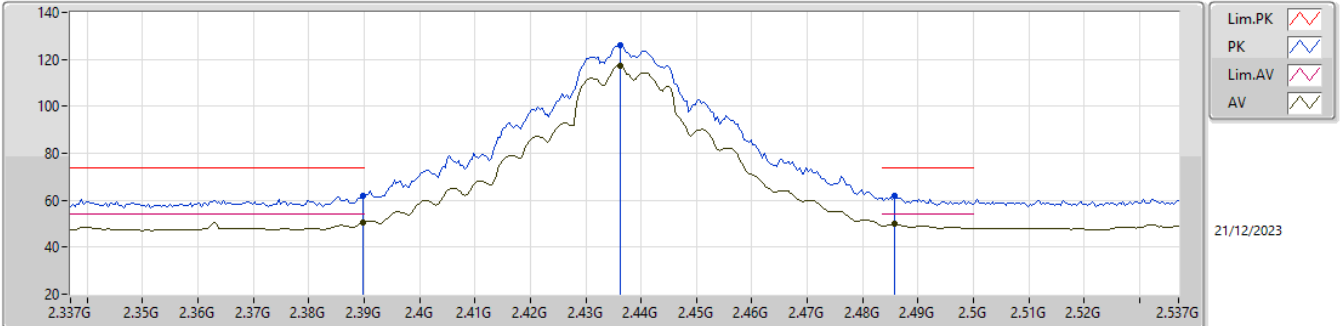


EUT_Y_2TX
Setting 28
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	59.62	74.00	-14.38	28.87	3	Vertical	48	2.30	-	27.40	3.35	-
AV	2.3894G	48.08	54.00	-5.92	17.33	3	Vertical	48	2.30	-	27.40	3.35	-
PK	2.4378G	121.09	Inf	-Inf	90.14	3	Vertical	48	2.30	-	27.58	3.37	-
AV	2.4382G	111.78	Inf	-Inf	80.83	3	Vertical	48	2.30	-	27.58	3.37	-
PK	2.4886G	59.10	74.00	-14.90	28.01	3	Vertical	48	2.30	-	27.69	3.40	-
AV	2.4835G	48.04	54.00	-5.96	17.00	3	Vertical	48	2.30	-	27.64	3.40	-

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

2437MHz_TX

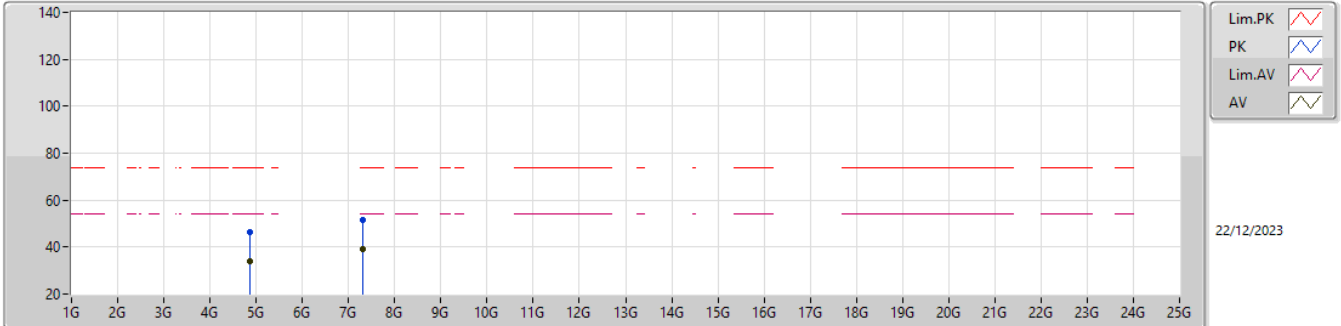


EUT_Y_2TX
Setting 28
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	61.86	74.00	-12.14	31.11	3	Horizontal	288	2.06	-	27.40	3.35	-
AV	2.3898G	50.63	54.00	-3.37	19.88	3	Horizontal	288	2.06	-	27.40	3.35	-
PK	2.4362G	126.12	Inf	-Inf	95.19	3	Horizontal	288	2.06	-	27.56	3.37	-
AV	2.4362G	117.08	Inf	-Inf	86.15	3	Horizontal	288	2.06	-	27.56	3.37	-
PK	2.4858G	61.73	74.00	-12.27	30.67	3	Horizontal	288	2.06	-	27.66	3.40	-
AV	2.4858G	49.87	54.00	-4.13	18.81	3	Horizontal	288	2.06	-	27.66	3.40	-

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

2437MHz_TX

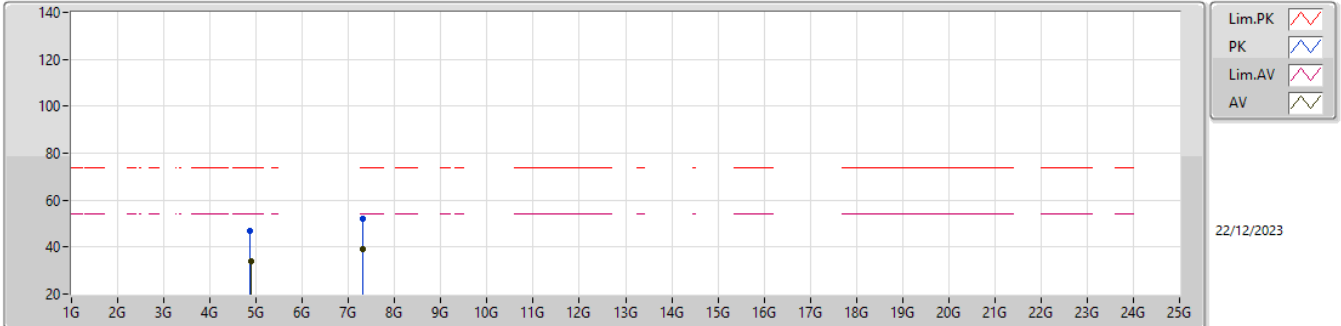


EUT_Y_2TX
Setting 28
04-L-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87642G	46.35	74.00	-27.65	41.37	3	Vertical	337	2.44	-	32.51	5.72	33.25
AV	4.87652G	33.96	54.00	-20.04	28.98	3	Vertical	337	2.44	-	32.51	5.72	33.25
PK	7.3078G	51.54	74.00	-22.46	41.31	3	Vertical	53	1.80	-	37.20	7.12	34.09
AV	7.30112G	39.13	54.00	-14.87	28.90	3	Vertical	53	1.80	-	37.20	7.12	34.09

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

2437MHz_TX

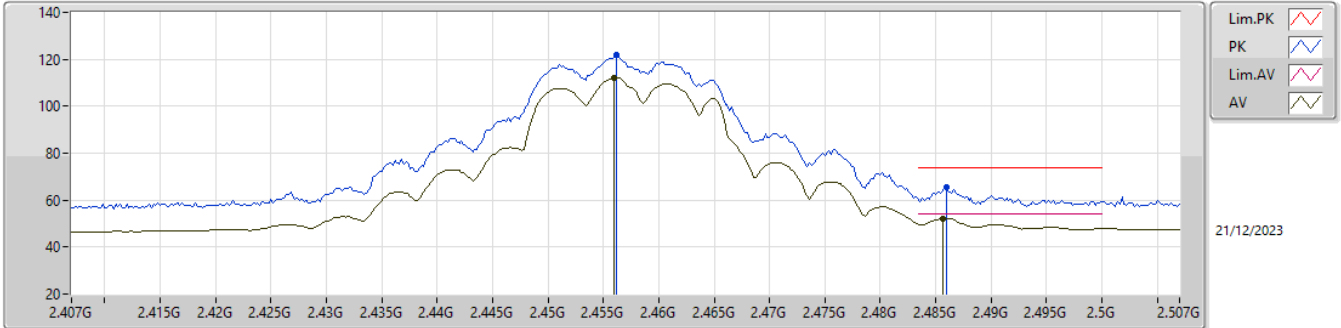


EUT_Y_2TX
Setting 28
04-L-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8772G	47.05	74.00	-26.95	42.07	3	Horizontal	71	1.85	-	32.51	5.72	33.25
AV	4.87888G	34.12	54.00	-19.88	29.13	3	Horizontal	71	1.85	-	32.52	5.72	33.25
PK	7.321G	52.03	74.00	-21.97	41.80	3	Horizontal	257	1.80	-	37.20	7.13	34.10
AV	7.30124G	39.20	54.00	-14.80	28.97	3	Horizontal	257	1.80	-	37.20	7.12	34.09

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

2457MHz_TX

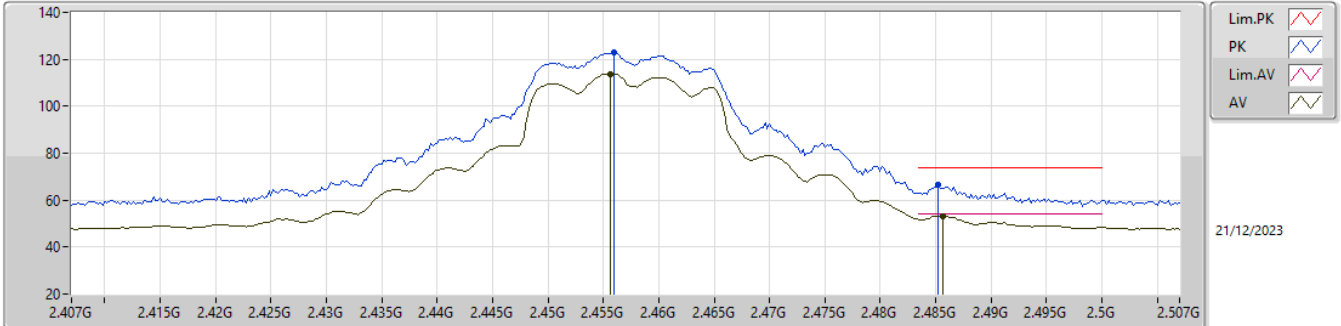


EUT_Y_2TX
 Setting 25.5
 04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4562G	121.69	Inf	-Inf	90.71	3	Vertical	8	3.00	-	27.60	3.38	-
AV	2.456G	112.03	Inf	-Inf	81.05	3	Vertical	8	3.00	-	27.60	3.38	-
PK	2.486G	65.42	74.00	-8.58	34.36	3	Vertical	8	3.00	-	27.66	3.40	-
AV	2.4856G	52.09	54.00	-1.91	21.03	3	Vertical	8	3.00	-	27.66	3.40	-

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

2457MHz_TX

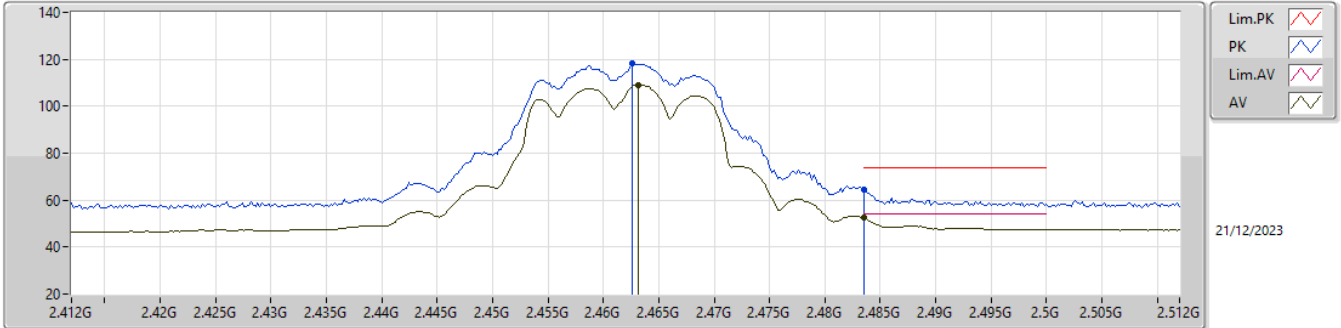


EUT_Y_2TX
 Setting 25.5
 04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.456G	123.08	Inf	-Inf	92.10	3	Horizontal	298	1.80	-	27.60	3.38	-
AV	2.4556G	113.85	Inf	-Inf	82.87	3	Horizontal	298	1.80	-	27.60	3.38	-
PK	2.4852G	66.75	74.00	-7.25	35.70	3	Horizontal	298	1.80	-	27.65	3.40	-
AV	2.4856G	53.02	54.00	-0.98	21.96	3	Horizontal	298	1.80	-	27.66	3.40	-

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

2462MHz_TX

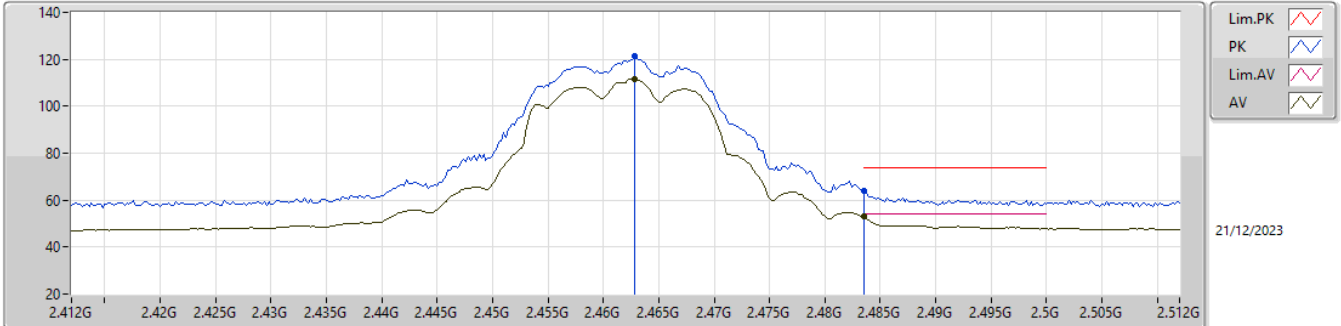


EUT_Y_2TX
Setting 23
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4626G	118.05	Inf	-Inf	87.07	3	Vertical	10	3.00	-	27.60	3.38	-
AV	2.4632G	108.97	Inf	-Inf	77.99	3	Vertical	10	3.00	-	27.60	3.38	-
PK	2.4835G	64.24	74.00	-9.76	33.20	3	Vertical	10	3.00	-	27.64	3.40	-
AV	2.4835G	52.61	54.00	-1.39	21.57	3	Vertical	10	3.00	-	27.64	3.40	-

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

2462MHz_TX

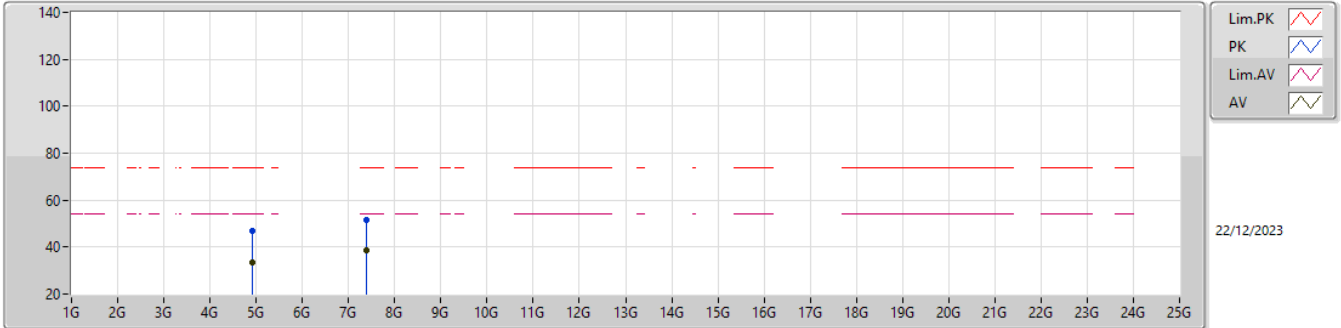


EUT_Y_2TX
Setting 23
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4628G	121.61	Inf	-Inf	90.63	3	Horizontal	302	1.17	-	27.60	3.38	-
AV	2.4628G	111.81	Inf	-Inf	80.83	3	Horizontal	302	1.17	-	27.60	3.38	-
PK	2.4835G	64.10	74.00	-9.90	33.06	3	Horizontal	302	1.17	-	27.64	3.40	-
AV	2.4835G	52.86	54.00	-1.14	21.82	3	Horizontal	302	1.17	-	27.64	3.40	-

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

2462MHz_TX

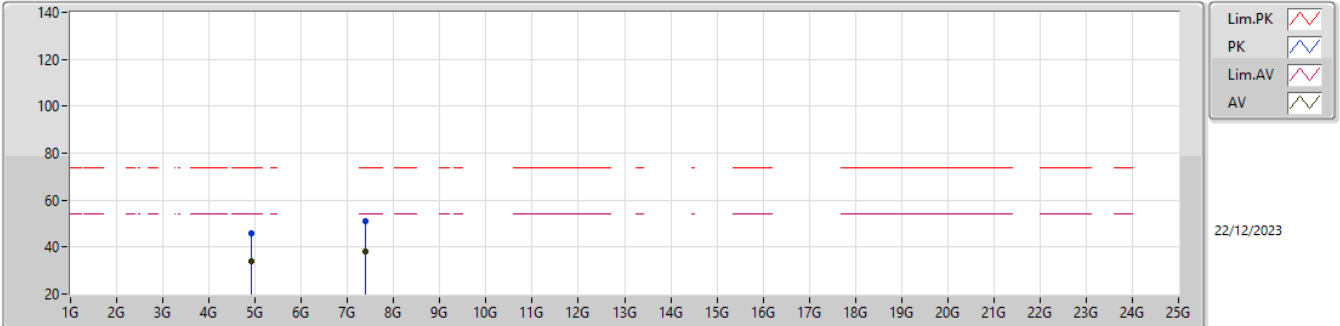


EUT_Y_2TX
Setting 23
04-L-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9217G	46.88	74.00	-27.12	41.72	3	Vertical	149	1.21	-	32.64	5.76	33.24
AV	4.9197G	33.68	54.00	-20.32	28.52	3	Vertical	149	1.21	-	32.64	5.76	33.24
PK	7.38714G	51.30	74.00	-22.70	41.06	3	Vertical	228	2.99	-	37.20	7.16	34.12
AV	7.3831G	38.50	54.00	-15.50	28.26	3	Vertical	228	2.99	-	37.20	7.16	34.12

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

2462MHz_TX

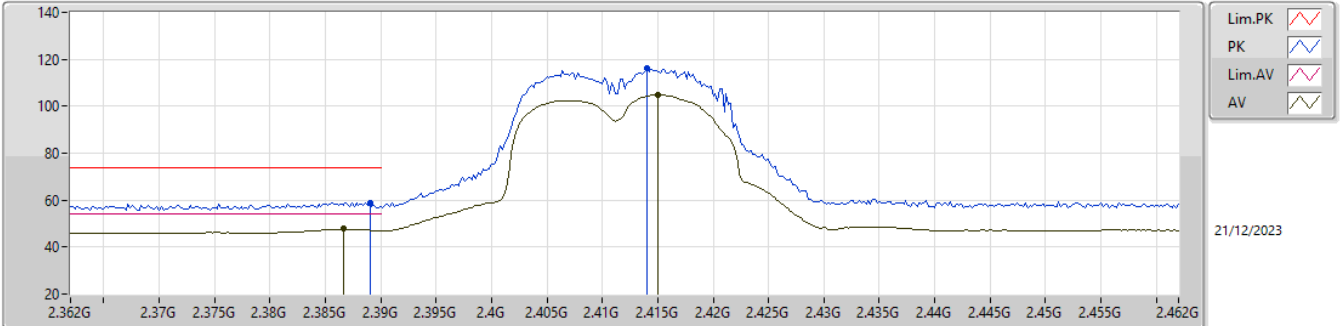


EUT_Y_2TX
Setting 23
04-L-E-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92264G	45.86	74.00	-28.14	40.69	3	Horizontal	71	1.82	-	32.65	5.76	33.24
AV	4.92104G	33.74	54.00	-20.26	28.58	3	Horizontal	71	1.82	-	32.64	5.76	33.24
PK	7.3812G	51.20	74.00	-22.80	40.96	3	Horizontal	58	1.00	-	37.20	7.16	34.12
AV	7.38336G	38.36	54.00	-15.64	28.12	3	Horizontal	58	1.00	-	37.20	7.16	34.12

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

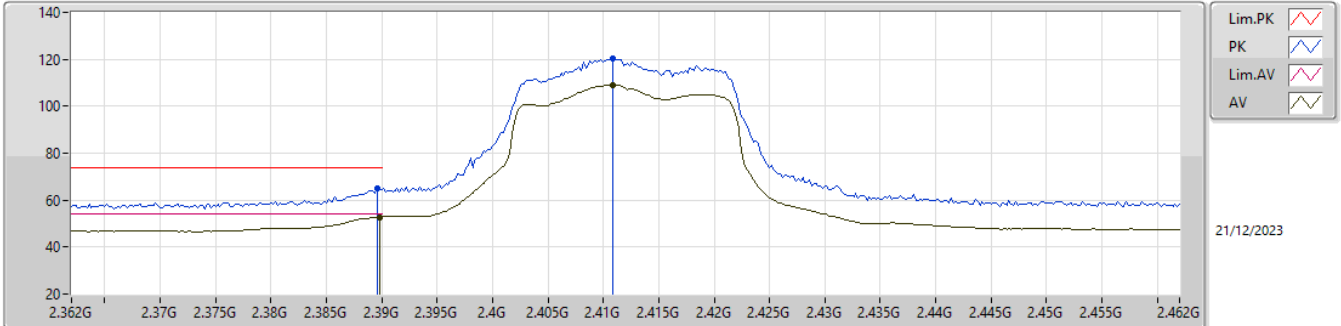


EUT_Y_2TX
Setting 22
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	58.97	74.00	-15.03	28.22	3	Vertical	34	2.49	-	27.40	3.35	-
AV	2.3866G	47.84	54.00	-6.16	17.10	3	Vertical	34	2.49	-	27.40	3.34	-
PK	2.414G	115.95	Inf	-Inf	85.09	3	Vertical	34	2.49	-	27.50	3.36	-
AV	2.415G	104.80	Inf	-Inf	73.94	3	Vertical	34	2.49	-	27.50	3.36	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

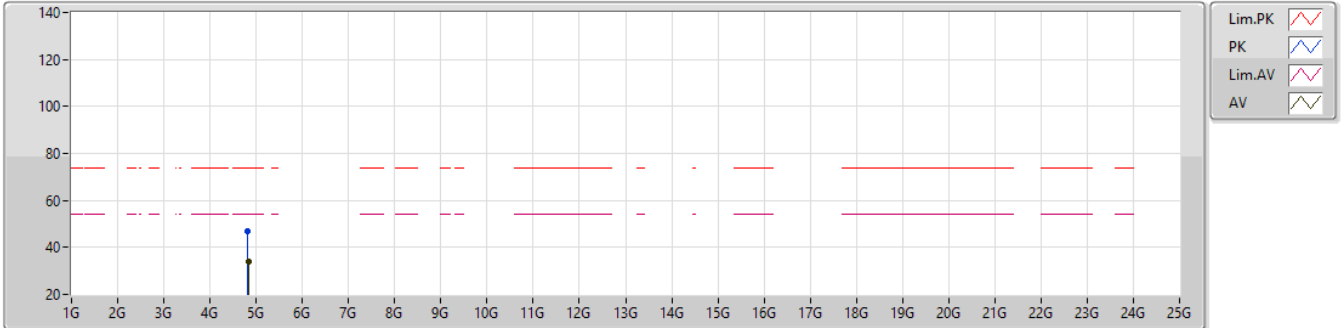


EUT_Y_2TX
Setting 22
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	64.94	74.00	-9.06	34.19	3	Horizontal	282	2.06	-	27.40	3.35	-
AV	2.3898G	52.83	54.00	-1.17	22.08	3	Horizontal	282	2.06	-	27.40	3.35	-
PK	2.4108G	120.32	Inf	-Inf	89.46	3	Horizontal	282	2.06	-	27.50	3.36	-
AV	2.4108G	109.09	Inf	-Inf	78.23	3	Horizontal	282	2.06	-	27.50	3.36	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

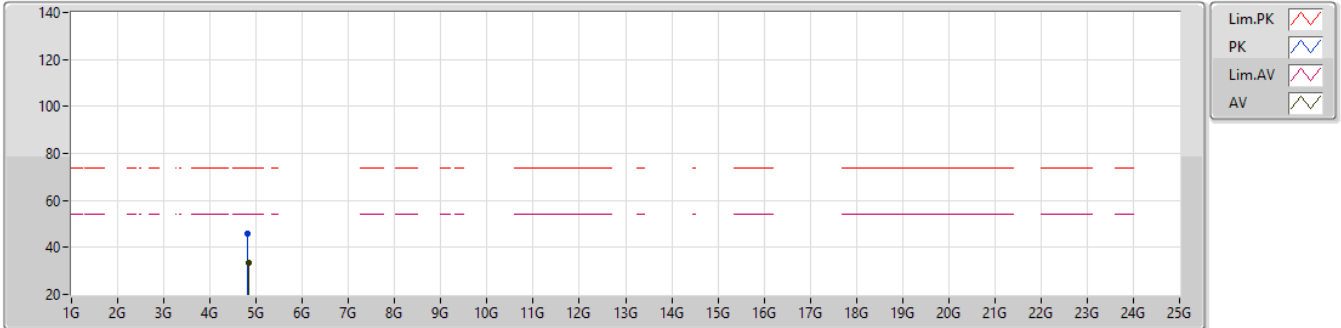


EUT_Y_2TX
Setting 22
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82056G	46.75	74.00	-27.25	42.01	3	Vertical	360	1.80	-	32.34	5.67	33.27
AV	4.82506G	33.71	54.00	-20.29	28.96	3	Vertical	360	1.80	-	32.35	5.67	33.27

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

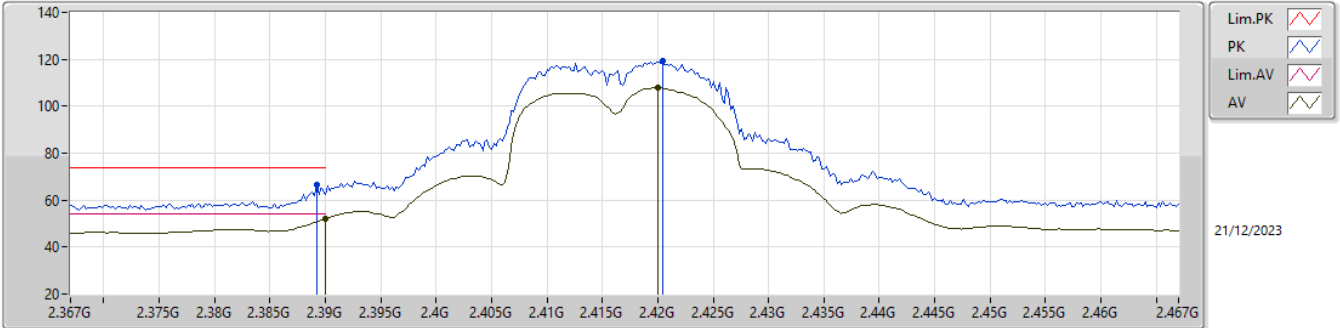


EUT_Y_2TX
Setting 22
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.81936G	45.79	74.00	-28.21	41.06	3	Horizontal	212	1.80	-	32.34	5.67	33.28
AV	4.82614G	33.43	54.00	-20.57	28.68	3	Horizontal	212	1.80	-	32.35	5.67	33.27

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

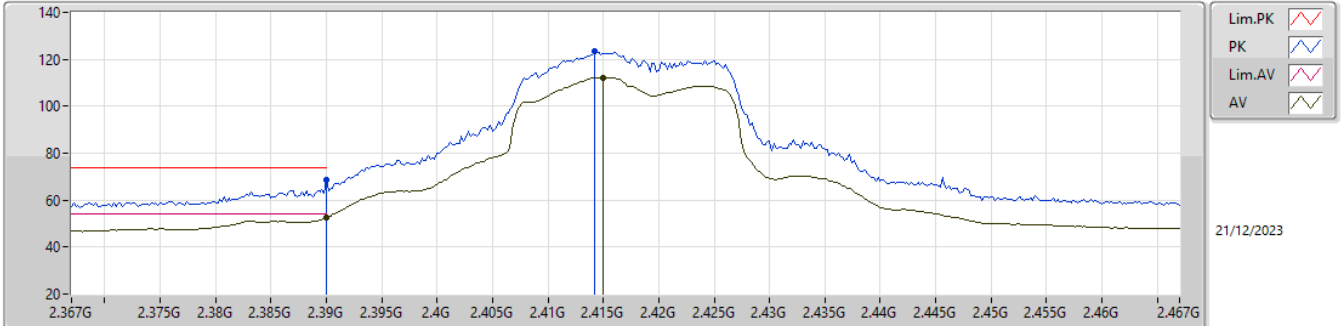


EUT_Y_2TX
Setting 25
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	66.62	74.00	-7.38	35.87	3	Vertical	32	2.50	-	27.40	3.35	-
AV	2.39G	51.99	54.00	-2.01	21.24	3	Vertical	32	2.50	-	27.40	3.35	-
PK	2.4204G	119.35	Inf	-Inf	88.49	3	Vertical	32	2.50	-	27.50	3.36	-
AV	2.42G	107.73	Inf	-Inf	76.87	3	Vertical	32	2.50	-	27.50	3.36	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

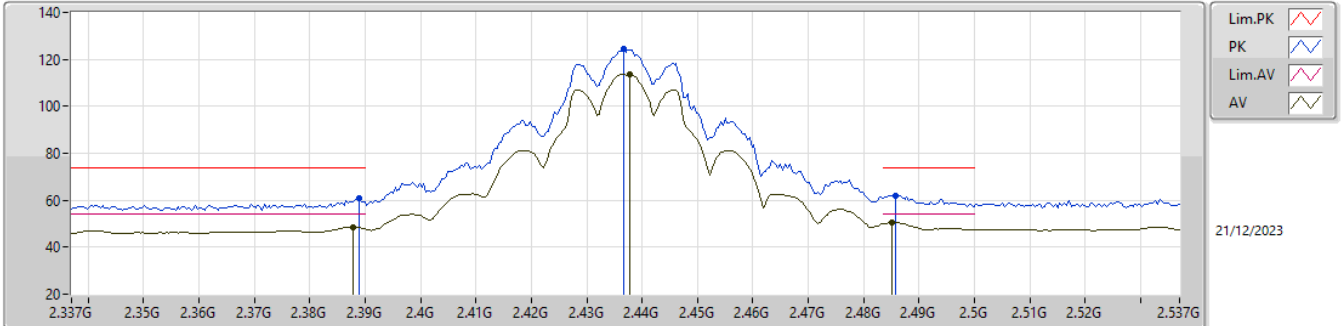


EUT_Y_2TX
Setting 25
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	68.47	74.00	-5.53	37.72	3	Horizontal	289	1.80	-	27.40	3.35	-
AV	2.39G	52.48	54.00	-1.52	21.73	3	Horizontal	289	1.80	-	27.40	3.35	-
PK	2.4142G	123.54	Inf	-Inf	92.68	3	Horizontal	289	1.80	-	27.50	3.36	-
AV	2.415G	112.28	Inf	-Inf	81.42	3	Horizontal	289	1.80	-	27.50	3.36	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX



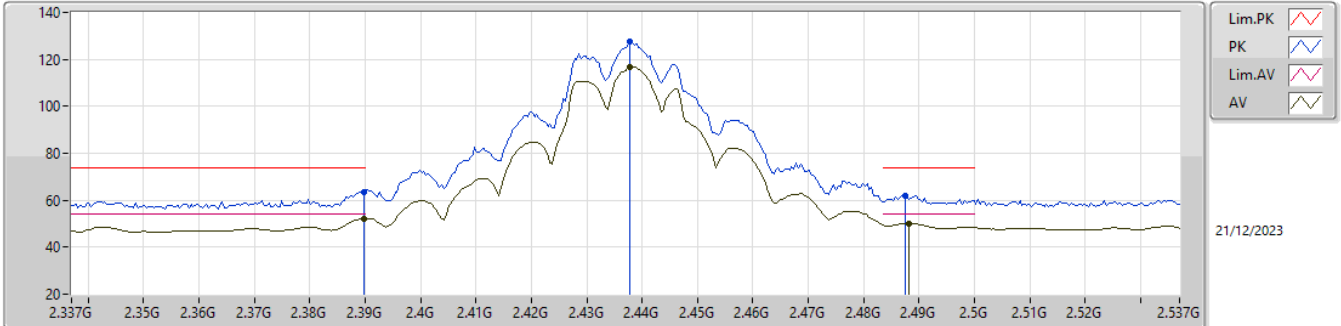
21/12/2023

EUT_Y_2TX
Setting 28
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	61.10	74.00	-12.90	30.35	3	Vertical	30	2.77	-	27.40	3.35	-
AV	2.3878G	48.45	54.00	-5.55	17.70	3	Vertical	30	2.77	-	27.40	3.35	-
PK	2.4366G	124.48	Inf	-Inf	93.54	3	Vertical	30	2.77	-	27.57	3.37	-
AV	2.4378G	113.59	Inf	-Inf	82.64	3	Vertical	30	2.77	-	27.58	3.37	-
PK	2.4858G	62.05	74.00	-11.95	30.99	3	Vertical	30	2.77	-	27.66	3.40	-
AV	2.485G	50.55	54.00	-3.45	19.50	3	Vertical	30	2.77	-	27.65	3.40	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

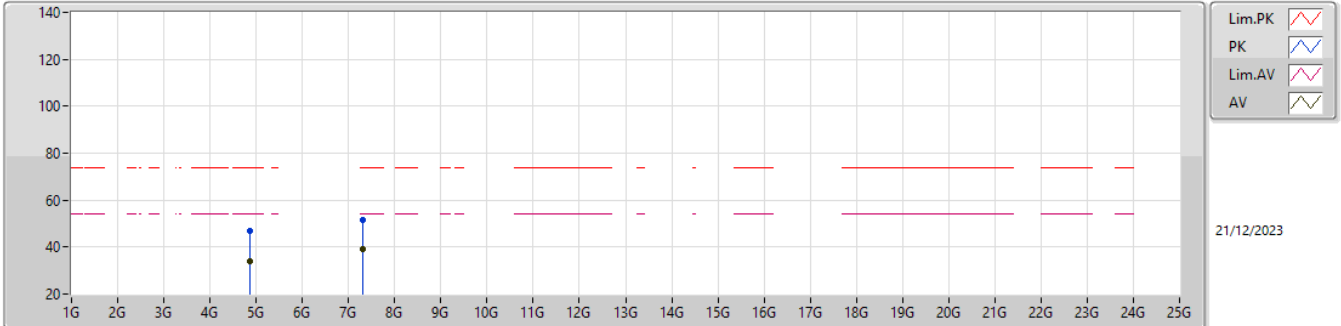


EUT_Y_2TX
Setting 28
04-L-V-1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.54	74.00	-10.46	32.79	3	Horizontal	83	2.91	-	27.40	3.35	-
AV	2.3898G	52.24	54.00	-1.76	21.49	3	Horizontal	83	2.91	-	27.40	3.35	-
PK	2.4378G	127.48	Inf	-Inf	96.53	3	Horizontal	83	2.91	-	27.58	3.37	-
AV	2.4378G	116.72	Inf	-Inf	85.77	3	Horizontal	83	2.91	-	27.58	3.37	-
PK	2.4874G	62.15	74.00	-11.85	31.08	3	Horizontal	83	2.91	-	27.67	3.40	-
AV	2.4882G	50.24	54.00	-3.76	19.16	3	Horizontal	83	2.91	-	27.68	3.40	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

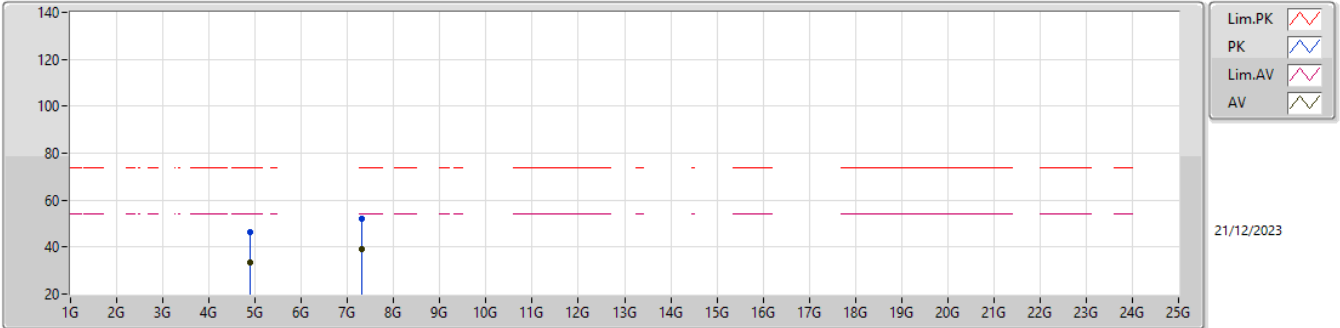


EUT_Y_2TX
Setting 28
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87322G	46.81	74.00	-27.19	41.86	3	Vertical	40	1.80	-	32.49	5.72	33.26
AV	4.8697G	34.09	54.00	-19.91	29.16	3	Vertical	40	1.80	-	32.48	5.71	33.26
PK	7.31188G	51.64	74.00	-22.36	41.41	3	Vertical	229	1.72	-	37.20	7.12	34.09
AV	7.30814G	39.12	54.00	-14.88	28.89	3	Vertical	229	1.72	-	37.20	7.12	34.09

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

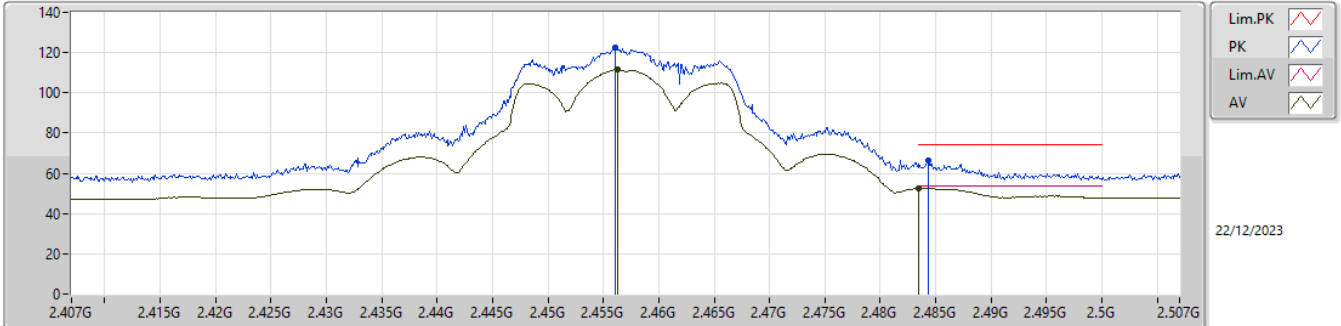


EUT_Y_2TX
Setting 28
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87734G	46.25	74.00	-27.75	41.27	3	Horizontal	49	1.80	-	32.51	5.72	33.25
AV	4.87808G	33.68	54.00	-20.32	28.70	3	Horizontal	49	1.80	-	32.51	5.72	33.25
PK	7.30858G	51.91	74.00	-22.09	41.68	3	Horizontal	124	1.80	-	37.20	7.12	34.09
AV	7.30806G	39.12	54.00	-14.88	28.89	3	Horizontal	124	1.80	-	37.20	7.12	34.09

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

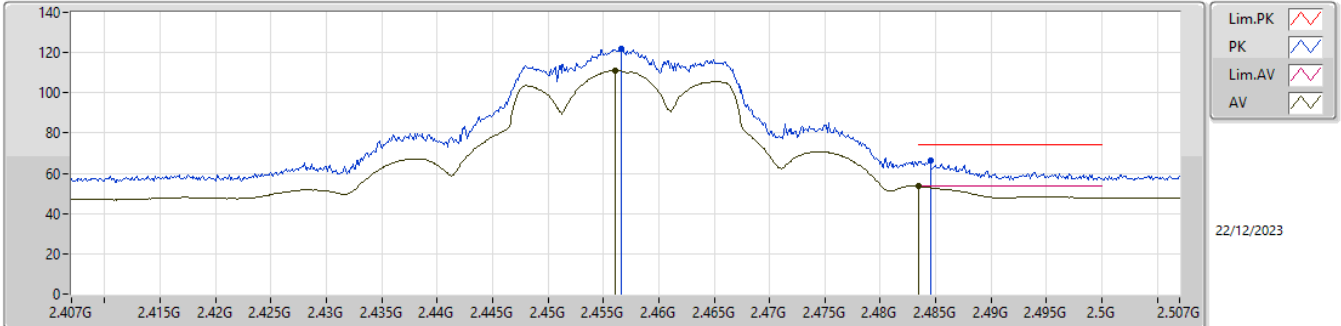


EUT_Y_2TX
 SET 25.5
 25\27.5\26.5\26\25.5
 2.81\ -7.51\ -2.30\ -0.28\ 1.39

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4561G	122.44	Inf	-Inf	91.46	3	Vertical	28	2.49	25.5	27.60	3.38	-
AV	2.4563G	111.57	Inf	-Inf	80.59	3	Vertical	28	2.49	25.5	27.60	3.38	-
PK	2.4843G	66.15	74.00	-7.85	35.11	3	Vertical	28	2.49	25.5	27.64	3.40	-
AV	2.4835G	52.61	54.00	-1.39	21.57	3	Vertical	28	2.49	25.5	27.64	3.40	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

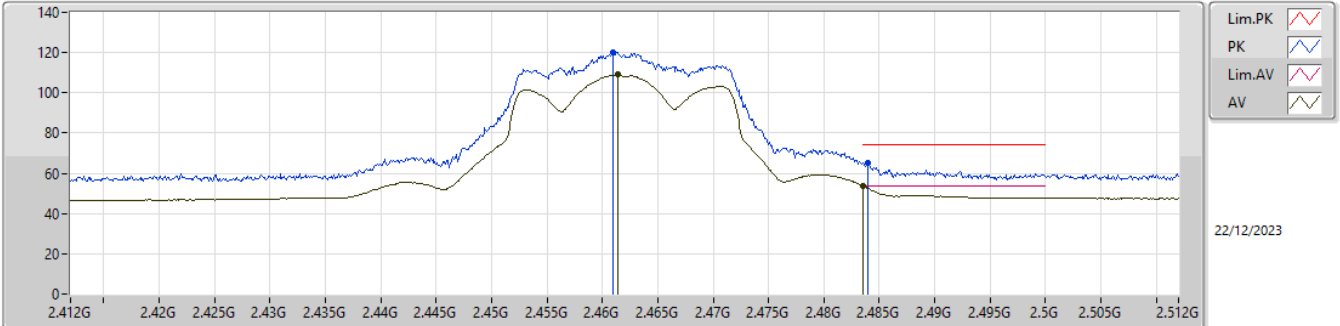


EUT_Y_2TX
 SET 25.5
 25.5
 0.40

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4566G	121.65	Inf	-Inf	90.67	3	Horizontal	32	2.52	25.5	27.60	3.38	-
AV	2.4561G	111.32	Inf	-Inf	80.34	3	Horizontal	32	2.52	25.5	27.60	3.38	-
PK	2.4845G	66.23	74.00	-7.77	35.19	3	Horizontal	32	2.52	25.5	27.64	3.40	-
AV	2.4835G	53.60	54.00	-0.40	22.56	3	Horizontal	32	2.52	25.5	27.64	3.40	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

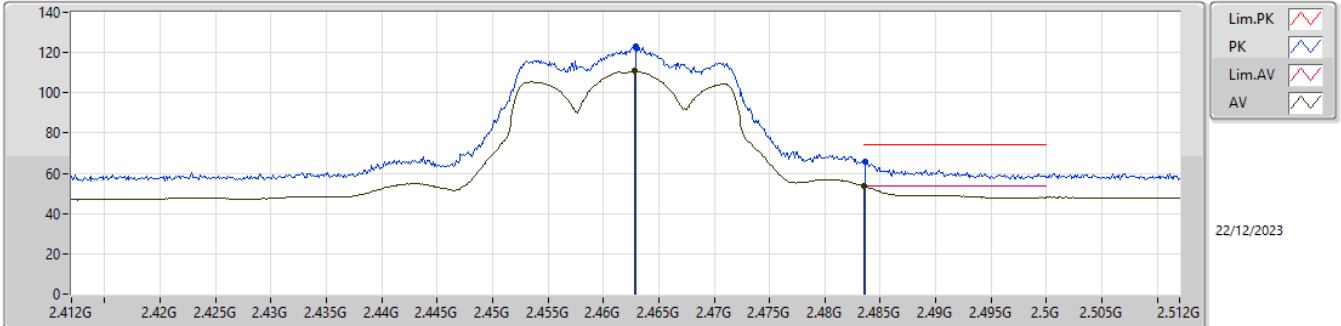


EUT_Y_2TX
 SET 23
 23.5\21.5\22.5\23
 -1.58\3.47\1.66\0.06

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.461G	120.36	Inf	-Inf	89.38	3	Vertical	30	2.62	23	27.60	3.38	-
AV	2.4614G	109.02	Inf	-Inf	78.04	3	Vertical	30	2.62	23	27.60	3.38	-
PK	2.484G	65.31	74.00	-8.69	34.27	3	Vertical	30	2.62	23	27.64	3.40	-
AV	2.4835G	53.94	54.00	-0.06	22.90	3	Vertical	30	2.62	23	27.64	3.40	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

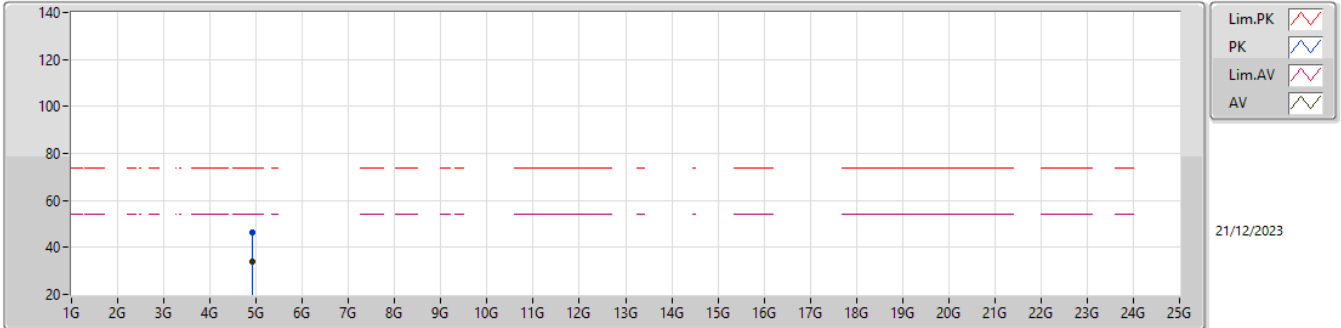


EUT_Y_2TX
 SET 21.5
 23\19.5\21\21.5
 -3.43\3.14\1.39\0.28

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4629G	122.81	Inf	-Inf	91.83	3	Horizontal	67	2.31	21.5	27.60	3.38	-
AV	2.4628G	110.86	Inf	-Inf	79.88	3	Horizontal	67	2.31	21.5	27.60	3.38	-
PK	2.4836G	65.69	74.00	-8.31	34.65	3	Horizontal	67	2.31	21.5	27.64	3.40	-
AV	2.4835G	53.72	54.00	-0.28	22.68	3	Horizontal	67	2.31	21.5	27.64	3.40	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

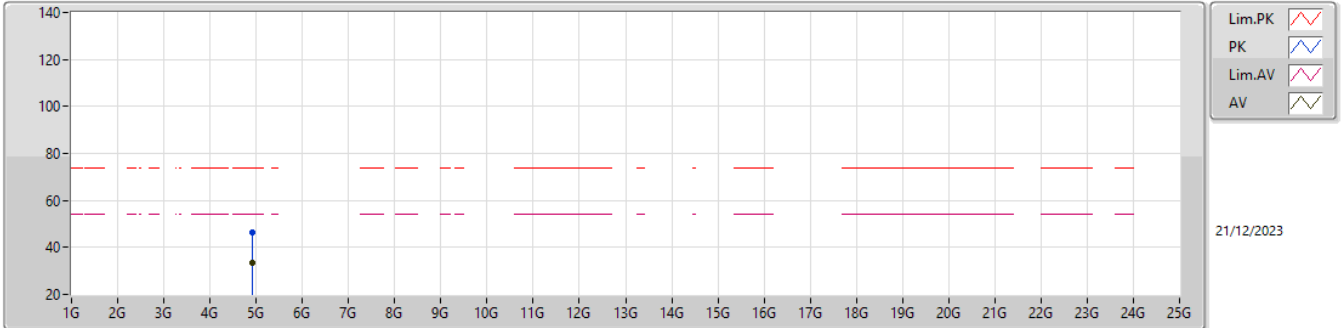


EUT_Y_2TX
 Setting 21.5
 04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92638G	46.40	74.00	-27.60	41.23	3	Vertical	360	2.23	-	32.65	5.76	33.24
AV	4.92274G	33.82	54.00	-20.18	28.65	3	Vertical	360	2.23	-	32.65	5.76	33.24

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

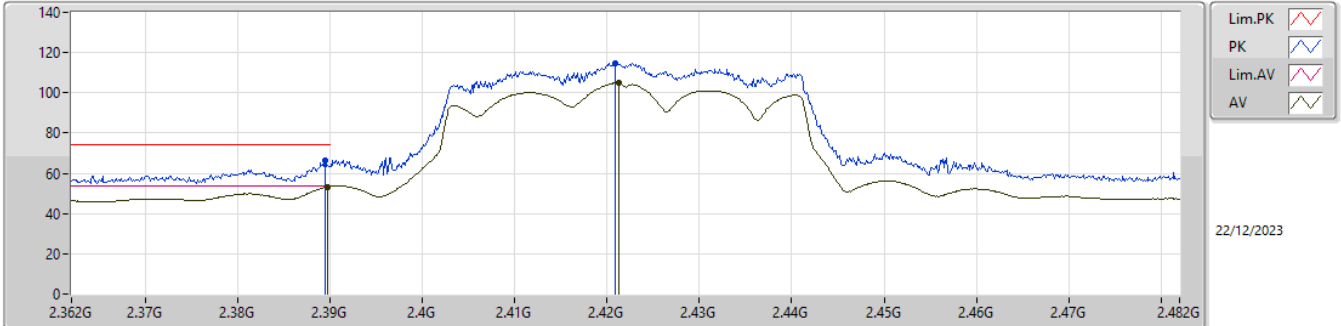


EUT_Y_2TX
 Setting 21.5
 04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92414G	46.28	74.00	-27.72	41.11	3	Horizontal	17	1.80	-	32.65	5.76	33.24
AV	4.92866G	33.41	54.00	-20.59	28.22	3	Horizontal	17	1.80	-	32.66	5.77	33.24

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

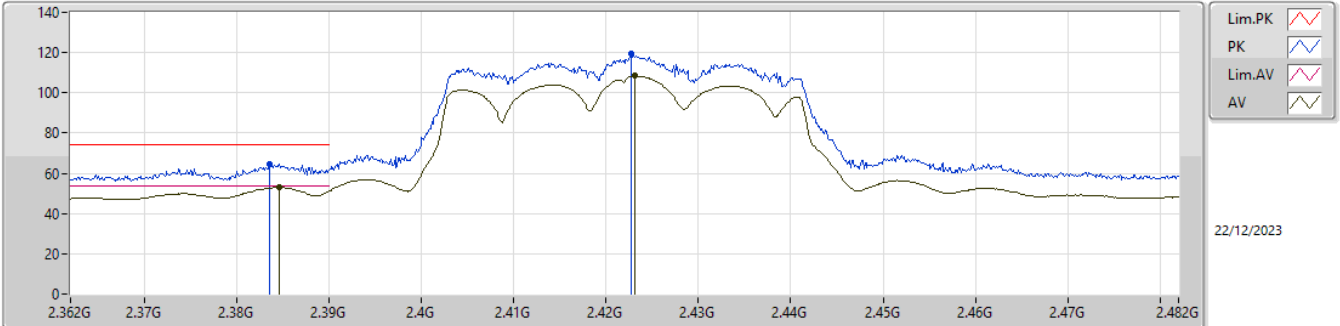


EUT_Y_2TX
 SET 22.5
 20\24.5\22.5\23.5\23\22.5
 4.99\ -7.70\0.62\ -3.01\ -1.30\0.73

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.38948G	66.10	74.00	-7.90	35.35	3	Vertical	38	2.76	22.5	27.40	3.35	-
AV	2.38972G	53.27	54.00	-0.73	22.52	3	Vertical	38	2.76	22.5	27.40	3.35	-
PK	2.42092G	114.88	Inf	-Inf	84.02	3	Vertical	38	2.76	22.5	27.50	3.36	-
AV	2.42128G	104.97	Inf	-Inf	74.11	3	Vertical	38	2.76	22.5	27.50	3.36	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

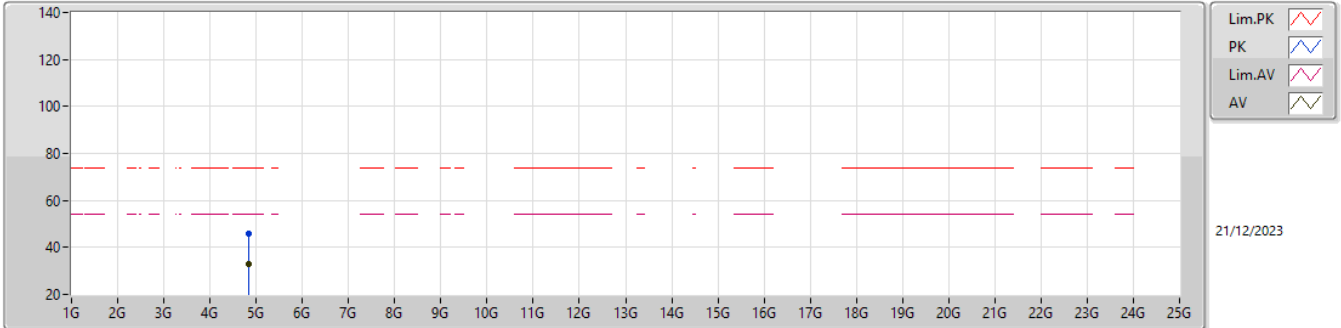


EUT_Y_2TX
 SET 21.5
 22.5\21\21.5\22\21.5
 -1.49\2.20\1.00\ -0.04\1.00

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3836G	64.74	74.00	-9.26	34.00	3	Horizontal	63	2.36	21.5	27.40	3.34	-
AV	2.38456G	53.00	54.00	-1.00	22.26	3	Horizontal	63	2.36	21.5	27.40	3.34	-
PK	2.42272G	119.39	Inf	-Inf	88.53	3	Horizontal	63	2.36	21.5	27.50	3.36	-
AV	2.42308G	108.49	Inf	-Inf	77.63	3	Horizontal	63	2.36	21.5	27.50	3.36	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

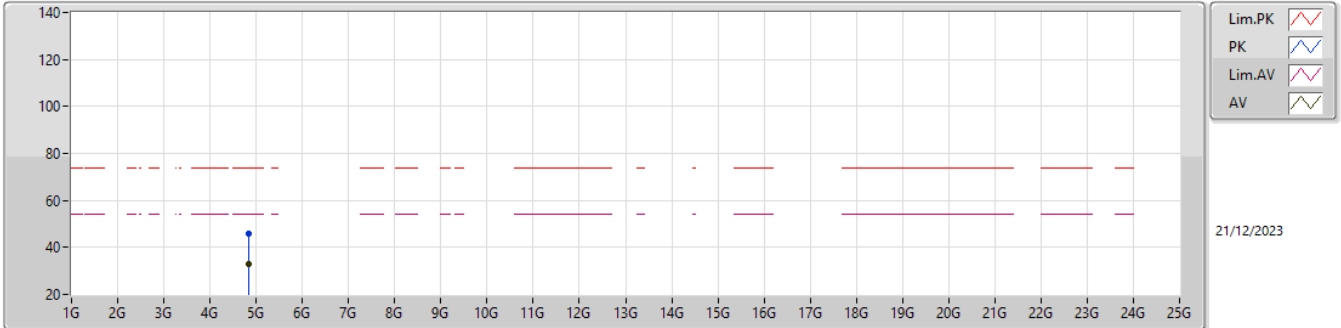


EUT_Y_2TX
Setting 21.5
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8471G	45.61	74.00	-28.39	40.80	3	Vertical	3	1.80	-	32.39	5.69	33.27
AV	4.84766G	32.88	54.00	-21.12	28.05	3	Vertical	3	1.80	-	32.40	5.69	33.26

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

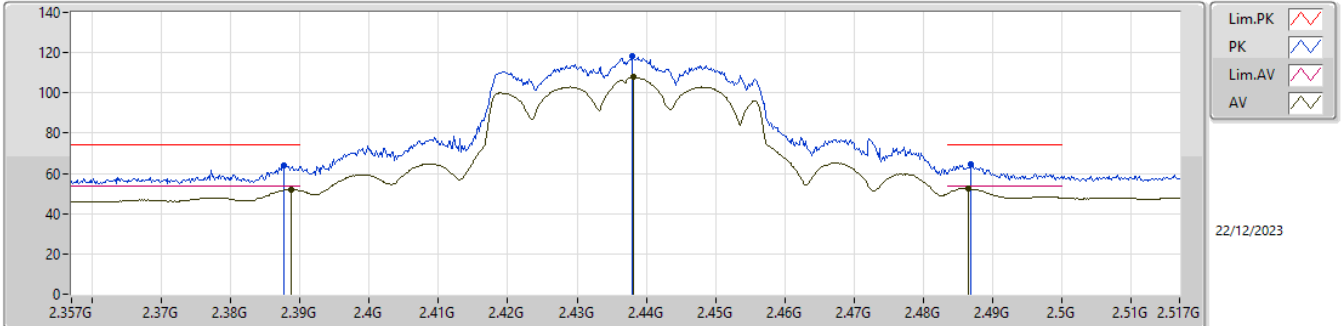


EUT_Y_2TX
 Setting 21.5
 04-L-E-2

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	4.84246G	45.90	74.00	-28.10	41.10	3	Horizontal	283	1.80	-	32.38	5.69	33.27
AV	4.8485G	32.88	54.00	-21.12	28.05	3	Horizontal	283	1.80	-	32.40	5.69	33.26

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX



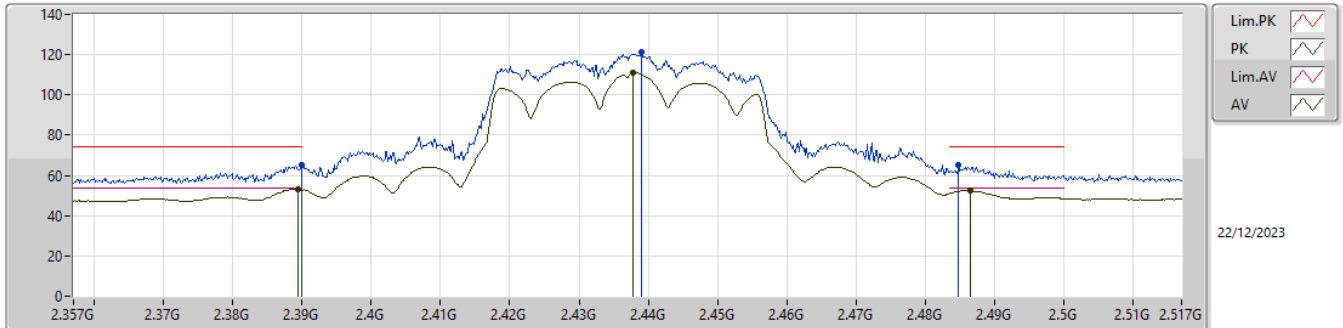
22/12/2023

EUT_Y_2TX
 SET 24.5
 20\26\23\24.5\25\24.5
 6.38\4.66\4.50\1.37\0.41\1.37

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.38772G	63.88	74.00	-10.12	33.13	3	Vertical	19	2.76	24.5	27.40	3.35	-
AV	2.38868G	51.98	54.00	-2.02	21.23	3	Vertical	19	2.76	24.5	27.40	3.35	-
PK	2.43796G	118.53	Inf	-Inf	87.58	3	Vertical	19	2.76	24.5	27.58	3.37	-
AV	2.43812G	107.78	Inf	-Inf	76.83	3	Vertical	19	2.76	24.5	27.58	3.37	-
PK	2.48692G	64.78	74.00	-9.22	33.71	3	Vertical	19	2.76	24.5	27.67	3.40	-
AV	2.48644G	52.63	54.00	-1.37	21.57	3	Vertical	19	2.76	24.5	27.66	3.40	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

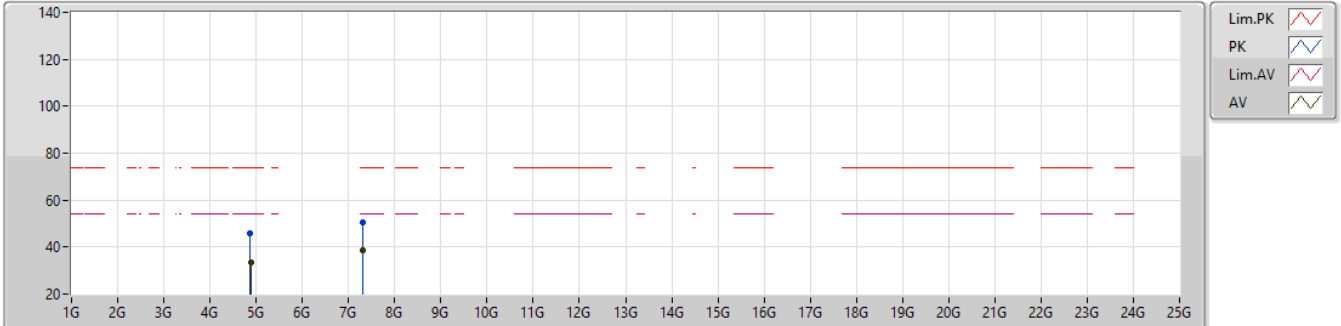


EUT_Y_2TX
 SET 23.5
 24.5\21.5\23\23.5\24\23.5
 -2.86\4.13\2.02\0.74\ -1.11\0.84

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.38996G	65.17	74.00	-8.83	34.42	3	Horizontal	60	2.11	23.5	27.40	3.35	-
AV	2.38948G	53.16	54.00	-0.84	22.41	3	Horizontal	60	2.11	23.5	27.40	3.35	-
PK	2.43908G	121.07	Inf	-Inf	90.11	3	Horizontal	60	2.11	23.5	27.59	3.37	-
AV	2.4378G	111.02	Inf	-Inf	80.07	3	Horizontal	60	2.11	23.5	27.58	3.37	-
PK	2.48484G	64.98	74.00	-9.02	33.93	3	Horizontal	60	2.11	23.5	27.65	3.40	-
AV	2.48644G	52.37	54.00	-1.63	21.31	3	Horizontal	60	2.11	23.5	27.66	3.40	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

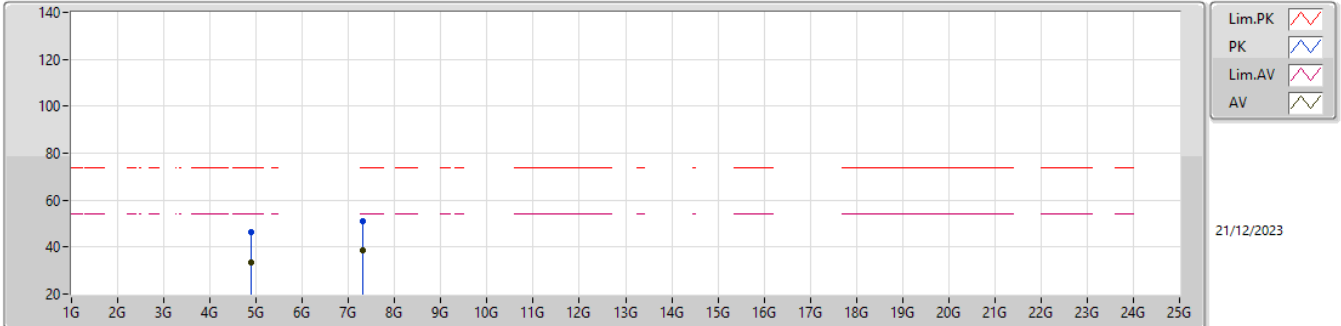


EUT_Y_2TX
 Setting 23.5
 04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87658G	46.03	74.00	-27.97	41.05	3	Vertical	45	1.79	-	32.51	5.72	33.25
AV	4.87882G	33.47	54.00	-20.53	28.48	3	Vertical	45	1.79	-	32.52	5.72	33.25
PK	7.31506G	50.76	74.00	-23.24	40.54	3	Vertical	123	2.15	-	37.20	7.12	34.10
AV	7.30804G	38.63	54.00	-15.37	28.40	3	Vertical	123	2.15	-	37.20	7.12	34.09

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

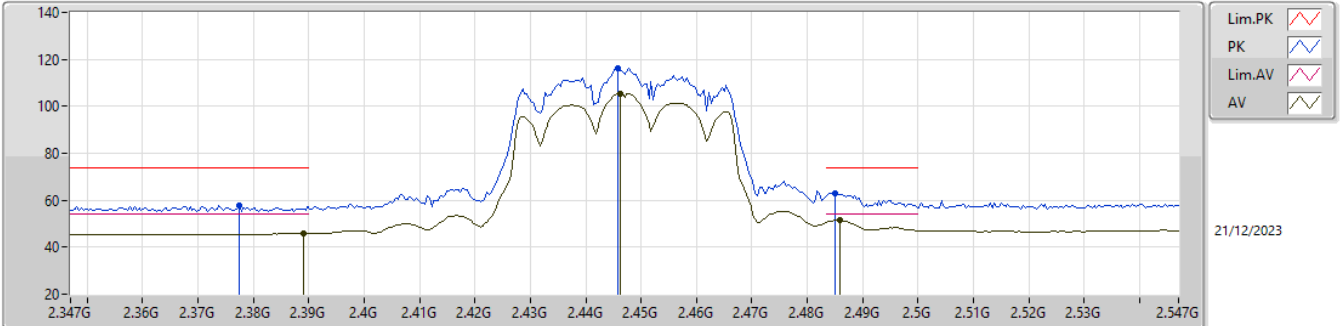


EUT_Y_2TX
Setting 23.5
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87758G	46.34	74.00	-27.66	41.36	3	Horizontal	337	1.45	-	32.51	5.72	33.25
AV	4.87782G	33.30	54.00	-20.70	28.32	3	Horizontal	337	1.06	-	32.51	5.72	33.25
PK	7.3068G	50.83	74.00	-23.17	40.60	3	Horizontal	118	2.21	-	37.20	7.12	34.09
AV	7.30806G	38.63	54.00	-15.37	28.40	3	Horizontal	118	2.21	-	37.20	7.12	34.09

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2447MHz_TX

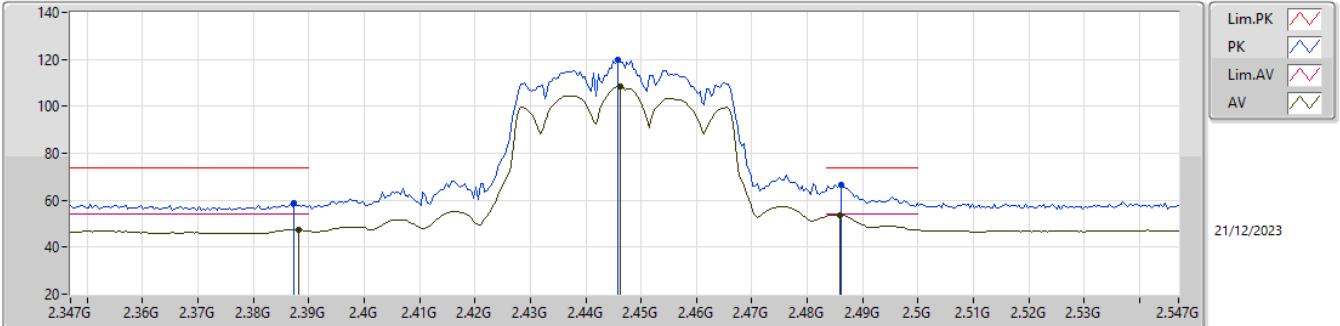


EUT_Y_2TX
 Setting 21.5
 04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3774G	57.99	74.00	-16.01	27.22	3	Vertical	33	2.60	-	27.43	3.34	-
AV	2.389G	45.90	54.00	-8.10	15.15	3	Vertical	33	2.60	-	27.40	3.35	-
PK	2.4458G	116.44	Inf	-Inf	85.46	3	Vertical	33	2.60	-	27.60	3.38	-
AV	2.4462G	105.55	Inf	-Inf	74.57	3	Vertical	33	2.60	-	27.60	3.38	-
PK	2.485G	62.91	74.00	-11.09	31.86	3	Vertical	33	2.60	-	27.65	3.40	-
AV	2.4858G	51.42	54.00	-2.58	20.36	3	Vertical	33	2.60	-	27.66	3.40	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2447MHz_TX

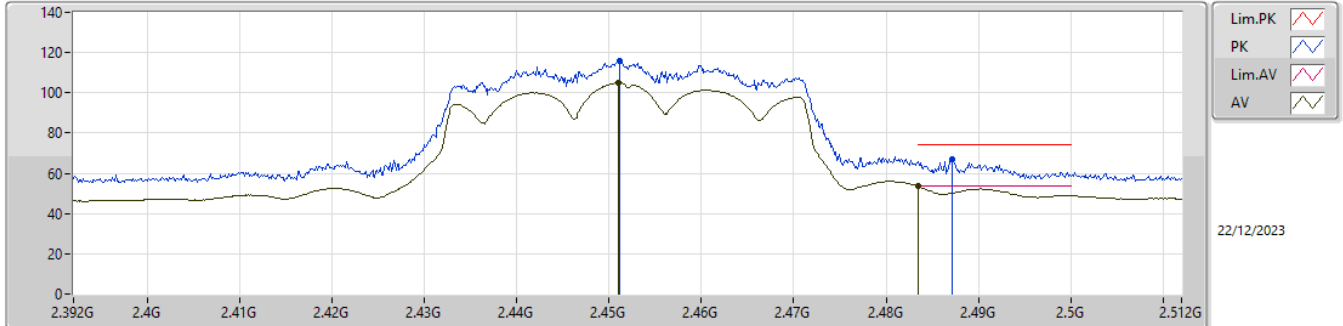


EUT_Y_2TX
Setting 21.5
04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	58.82	74.00	-15.18	28.08	3	Horizontal	89	2.17	-	27.40	3.34	-
AV	2.3882G	47.20	54.00	-6.80	16.45	3	Horizontal	89	2.17	-	27.40	3.35	-
PK	2.4458G	119.96	Inf	-Inf	88.98	3	Horizontal	89	2.17	-	27.60	3.38	-
AV	2.4462G	108.55	Inf	-Inf	77.57	3	Horizontal	89	2.17	-	27.60	3.38	-
PK	2.4862G	66.44	74.00	-7.56	35.38	3	Horizontal	89	2.17	-	27.66	3.40	-
AV	2.4858G	53.85	54.00	-0.15	22.79	3	Horizontal	89	2.17	-	27.66	3.40	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

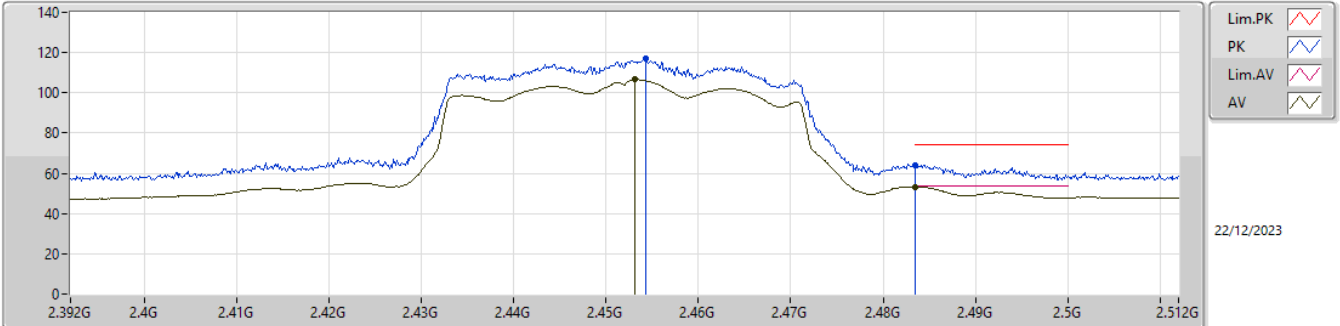


EUT_Y_2TX
 SET 21.5
 20\23\21.5\22\21.5
 3.30\3.73\0.52\0.38\0.52

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.45116G	115.62	Inf	-Inf	84.64	3	Vertical	32	2.61	21.5	27.60	3.38	-
AV	2.45104G	105.03	Inf	-Inf	74.05	3	Vertical	32	2.61	21.5	27.60	3.38	-
PK	2.48716G	67.05	74.00	-6.95	35.98	3	Vertical	32	2.61	21.5	27.67	3.40	-
AV	2.4835G	53.48	54.00	-0.52	22.44	3	Vertical	32	2.61	21.5	27.64	3.40	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

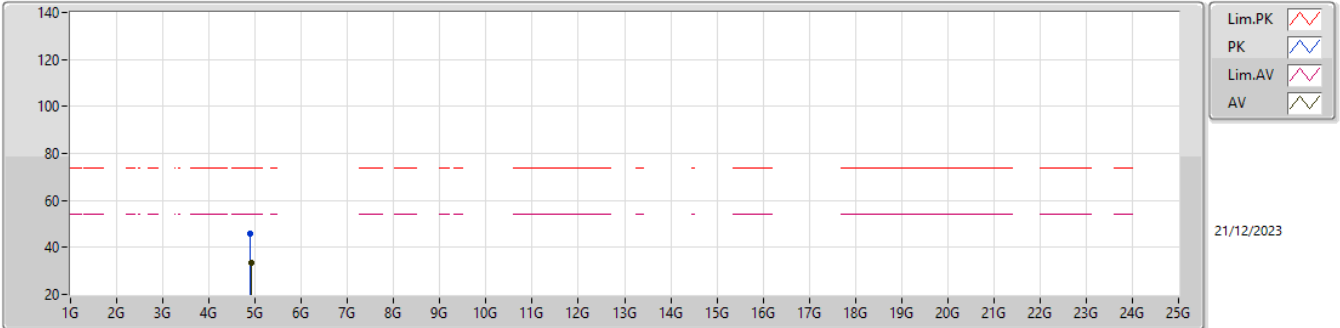


EUT_Y_2TX
 SET 20.5
 21.5\19.5\20.5\21\20.5
 -1.95\2.22\0.64\ -0.38\0.64

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.45428G	116.93	Inf	-Inf	85.95	3	Horizontal	300	1.80	20.5	27.60	3.38	-
AV	2.45308G	106.65	Inf	-Inf	75.67	3	Horizontal	300	1.80	20.5	27.60	3.38	-
PK	2.4835G	64.07	74.00	-9.93	33.03	3	Horizontal	300	1.80	20.5	27.64	3.40	-
AV	2.4835G	53.36	54.00	-0.64	22.32	3	Horizontal	300	1.80	20.5	27.64	3.40	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

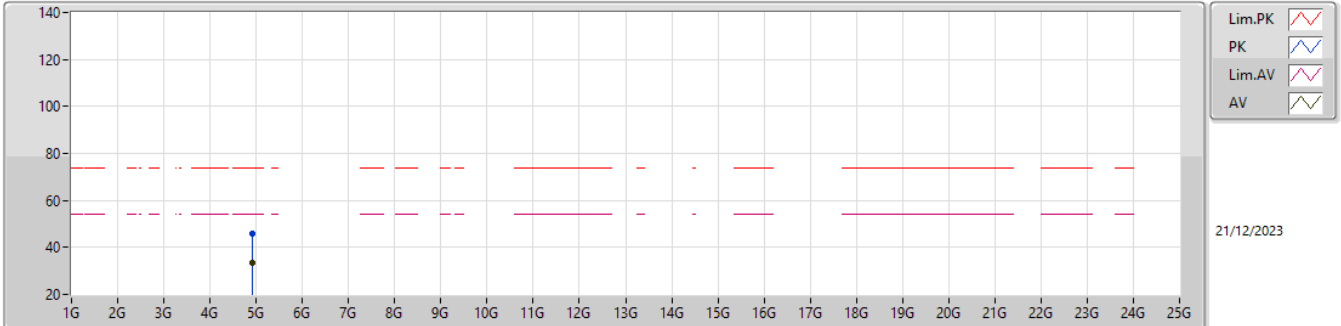


EUT_Y_2TX
 Setting 20.5
 04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.89976G	45.86	74.00	-28.14	40.77	3	Vertical	39	1.80	-	32.60	5.74	33.25
AV	4.90818G	33.34	54.00	-20.66	28.21	3	Vertical	39	1.80	-	32.62	5.75	33.24

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT_Y_2TX
 Setting 20.5
 04-L-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90828G	45.86	74.00	-28.14	40.73	3	Horizontal	156	1.78	-	32.62	5.75	33.24
AV	4.9075G	33.26	54.00	-20.74	28.13	3	Horizontal	156	1.78	-	32.62	5.75	33.24