



RADIO TEST REPORT

FCC ID : TLZ-XM9098
Equipment : IEEE 802.112X2 WiFi 6 SU and MU-MIMO DBC
Wireless LAN + Bluetooth 5.1 Combo Module
Brand Name : AzureWave
Model Name : AW-XM458, AW-XM369, AW-XM458MA-XXX,
AW-XM369MA-XXX
Applicant : AzureWave Technologies, Inc.
8F., No.94, Baozhong Rd. , Xindian Dist., New
Taipei City , Taiwan 231
Manufacturer : AzureWave Technologies (Shanghai) Inc.
No. 1355, Jiaxin Road, Malu Twon, Jiading District
Shanghai, P.R. China
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 21, 2024, and testing was started from Jul. 11, 2024 and completed on Jul. 31, 2024. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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



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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3

Page Number : 3 of 32
Issued Date : Aug. 15, 2024
Report Version : 01



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	-
3.5	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), ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), 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	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	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.

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**

Set	Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
		WLAN 2.4GHz	WLAN 5GHz	Bluetooth					
1	1	1	1	-	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1
	2	2	2	-	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	
	3	-	-	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	
2	4	1/2	1/2	1	Inpaq	WA-P-LB-02-587	PCB	I-PEX	
3	5	1/2	1/2	1	Inpaq	WA-P-LB-03-129	PCB	I-PEX	
4	6	-	-	-	Inpaq	WA-P-LB-03-130	PCB	I-PEX	
5	7	-	-	-	Inpaq	WA-F-LB-03-110	PCB	I-PEX	
6	8	-	-	-	Inpaq	WA-F-LB-02-187	PCB	I-PEX	
7	9	-	-	-	Inpaq	WA-F-LA-01-015	PCB	I-PEX	
8	10	-	-	-	TE Connectivity	2195501-2	PCB	I-PEX	
9	11	-	-	-	TE Connectivity	2195505-2	PCB	I-PEX	
10	12	-	-	-	LUXSHARE-ICT	SA37A47021	Dipole	I-PEX	Note 2
	13	-	-	-	LUXSHARE-ICT	SA37A47021	Dipole	I-PEX	
11	14	-	-	-	LUXSHARE-ICT	SA37A47025	PIFA	I-PEX	Note 1
12	15	1/2	1/2	1	TAOGLAS	WLA.10	Chip	N/A	Note 1

Note1:

Set	Ant.	Port			Antenna Gain (dBi)		
		WLAN 2.4GHz	WLAN 5GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	1	1	1	-	2.98	5.16	-
	2	2	2	-	2.98	5.16	-
	3	-	-	1	-	-	2.98
2	4	1/2	1/2	1	4.43	7.52	4.43
3	5	1/2	1/2	1	6.51	3.2	6.51
4	6	-	-	-	4.91	5.84	4.91
5	7	-	-	-	-0.27	2.74	-0.27
6	8	-	-	-	0.07	2.39	0.07
7	9	-	-	-	5.66	-	5.66
8	10	-	-	-	0.47	1.88	0.47
9	11	-	-	-	0.77	0.96	0.77
11	14	-	-	-	-	-	-1.1
12	15	1/2	1/2	1	1.25	2.17	1.25

Note2:

Set	Ant.	Port		Cable Length	Antenna Gain (dBi)		Cable Loss (dB)		True Gain (dBi)	
		WLAN 2.4GHz	WLAN 5GHz		WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz	WLAN 2.4GHz	WLAN 5GHz
10	12	-	-	450mm	2.8	2.6	1.1	1.9	1.7	0.7
	13	-	-	470mm	2.8	2.6	1.2	2	1.6	0.6

Note3: The above information was declared by manufacturer.

Note4: There are 15 antenna sets listed on the antenna table. The antenna sets 1~9 and 12 have three antennas for each set. The antenna set 10 has two antennas. The antenna set 11 has one antenna. The EUT has four types of antenna.

Note5: Directional gain information.

For ant. 1~ant. 2

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 2.98 ; G2 = 2.98 ; DG=5.99$$

$$5G \ G1 = 5.16 ; G2 = 5.16 ; DG=8.17$$

For ant. 4~ant. 5

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

For ant. 5

$$2.4G \ G1 = 6.51 ; G2 = 6.51 ; DG=9.52$$

For ant. 4

$$5G \ G1 = 7.52 ; G2 = 7.52 ; DG=10.53$$



For ant. 15

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	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{SS}} S_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{SS}} S_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{SS}} S_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

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

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

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

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$2.4G \ G1 = 1.25 \text{ dBi} ; G2 = 1.25 \text{ dBi} ; DG = 4.26 \text{ dBi}$$

$$5G \ G1 = 2.17 \text{ dBi} ; G2 = 2.17 \text{ dBi} ; DG = 5.18 \text{ dBi}$$

<WLAN 2.4GHz Function>

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

<WLAN 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.

<Bluetooth Function> (1TX/1RX)

Only Port 1 can be used as transmitting/receiving.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss 1,(1D)	0.972	0.12	8.624m	300
802.11g_Nss 1,(6D)	0.848	0.72	1.433m	1k
802.11ax HEW20_Nss 1,(M0)	0.945	0.25	3.901m	300
802.11ax HEW40_Nss 1,(M0)	0.888	0.52	1.98m	1k

Note:

DC is Duty Cycle.

DCF is Duty Cycle Factor.

**1.1.4 EUT Operational Condition**

EUT Power Type	From host system			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	DutApiMimoApApp (Version : 2.0.0.80)			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

EUT	Model No.	GPIO	Antenna	RF Connector Trace and Type	Description
1	AW-XM458, AW-XM369	Without GPIO	PIFA, PCB, Dipole	-	All the model names are identical, the difference model names served as marketing strategy.
2	AW-XM458MA-XXX, AW-XM369MA-XXX	With GPIO		Type 1	All the model names are identical, the difference model names served as marketing strategy.
3				Type 2	
4			Chip	Type 3	

Note 1: From the above models, model: AW-XM458MA-XXX (EUT 4) was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR132339-07AA.

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

Modifications	Performance Checking
Add EUT 4 with a new antenna type (chip antenna Set 12)	1. AC Power-line Conducted Emissions 2. DTS Bandwidth 3. Maximum Conducted Output Power 4. Power Spectral Density 5. Emissions in Non-restricted Frequency Bands 6. Emissions in Restricted Frequency Bands below 1GHz. 7. Emissions in Restricted Frequency Bands above 1GHz. 8. Radiated Emission Co-location (For the above test items 2~5: Only retest the modes and frequencies which reduced power.)



1.2 Applicable Standards

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

47 CFR FCC Part 15.247

ANSI C63.10-2013

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

FCC KDB 558074 D01 v05r02

FCC KDB 662911 D01 v02r01

FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Jay Lo	22.8~24.8 / 61~63	Jul. 18, 2024~ Jul. 22, 2024
Radiated	03CH01-CB	Chris Li	21.9-22.4 / 55-58	Jul. 11, 2024~ Jul. 24, 2024
AC Conduction	CO01-CB	Ryan Huang	22~23 / 51~53	Jul. 31, 2024

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 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	2.1 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode
802.11b_Nss1,(1Mbps)_2TX
2457MHz
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

Note:

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

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	CTX
1	EUT 4 + WLAN 2.4GHz (Ant. Set 12)
2	EUT 4 + WLAN 5GHz (Ant. Set 12)
3	EUT 4 + Bluetooth (Ant. Set 12)
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
1	EUT 4 + Ant. Set 12 Note: Only retest the modes and frequencies which reduced power.

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 X axis, so it was selected to perform test and its test result was written in the report.
1	EUT 4 in X axis + WLAN 2.4GHz (Ant. Set 12) + WLAN 5GHz (Ant. Set 12) + Bluetooth (Ant. Set 12)
Operating Mode > 1GHz	CTX
	After evaluating, and the worst case was found as below. So the measurement will follow this same test configuration.
1	EUT 4 in Z axis (bandedge) + Ant. Set 12 / EUT 4 in X axis (harmonic) + Ant. Set 12



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	After evaluating, and the worst case was found at X axis, so it was selected to perform test and its test result was written in the report.
1	EUT 4 in X axis-WLAN 2.4GHz + WLAN 5GHz + Ant. Set 12
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA132339-09 for Co-location RF Exposure Evaluation.	

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

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB2	DELL	E6430	N/A
B	Fixture	Azurewave	2304NF-i1	N/A
C	NB1	DELL	E6430	N/A
D	Earphone	SHYARO CHI	MIC-04	N/A
E	Mouse	HP	FM100	N/A
F	Fixture	Azurewave	2458-i6	N/A

**For Radiated (below 1GHz):**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	Azurewave	2304NF-i1	N/A
C	Test Fixture	Azurewave	2458-i6	N/A
D	AP Router(2.4G)	ASUS	AX88U	N/A
E	AP Router(5G)	ASUS	AX88U	N/A
F	Phone(BT)	PHILIPS	M20	N/A

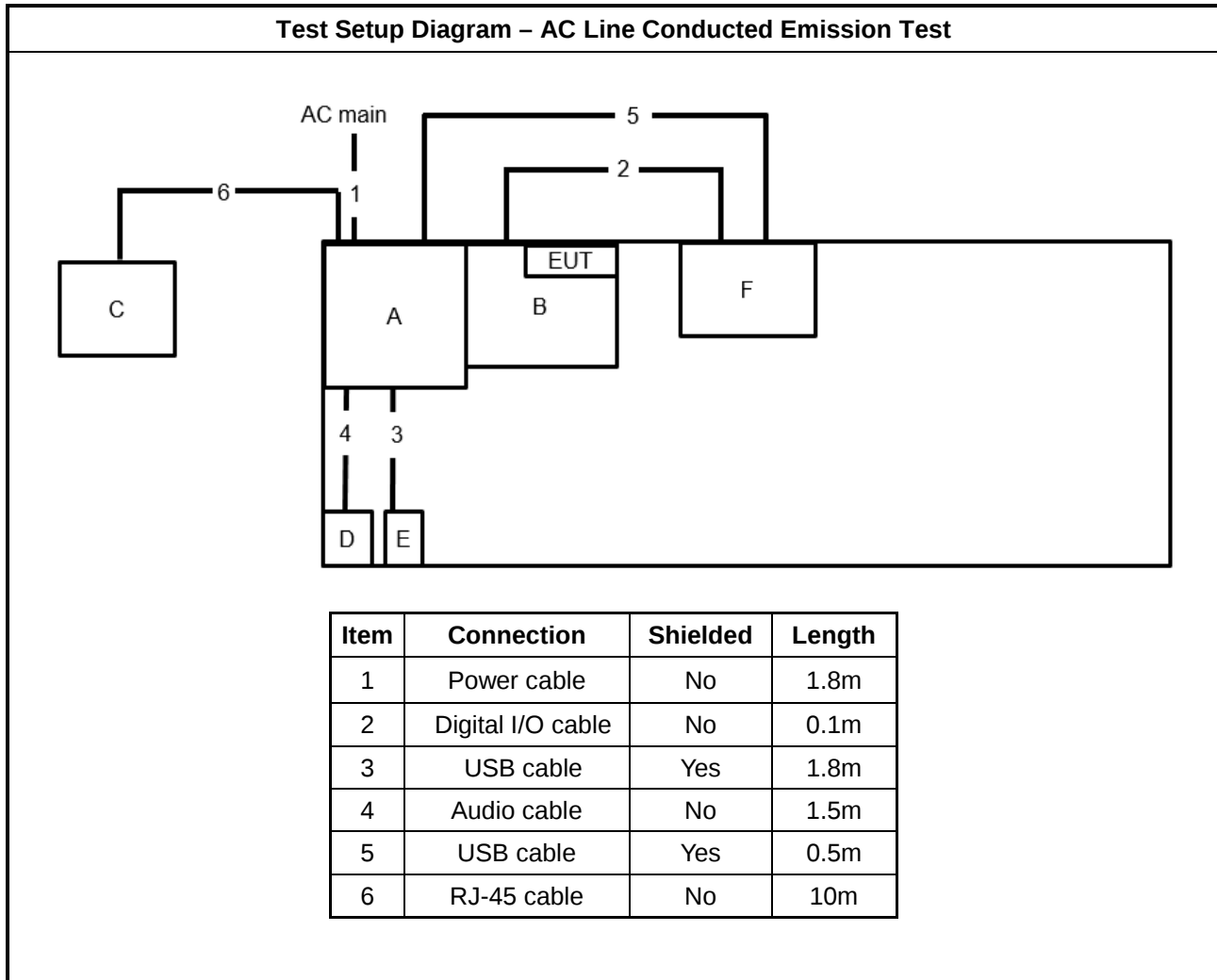
For Radiated (above 1GHz):

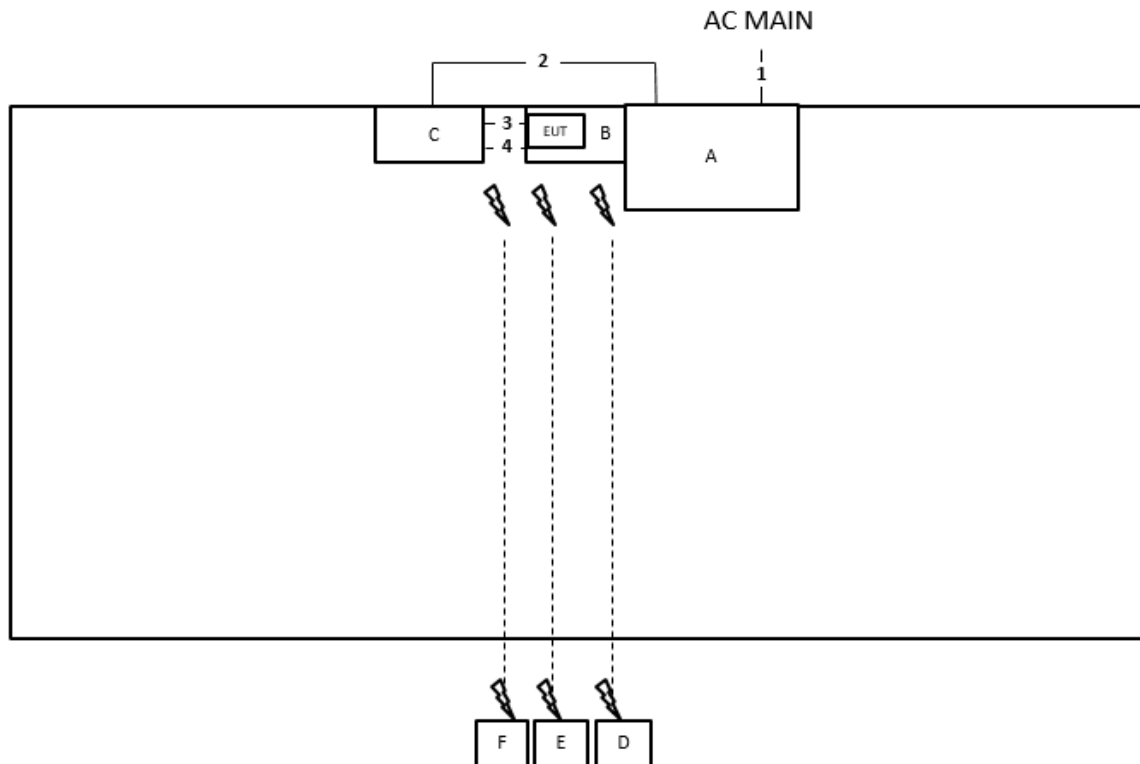
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	Test Fixture	Azurewave	2304NF-i1	N/A
C	Test Fixture	Azurewave	2458-i6	N/A

For RF Conducted:

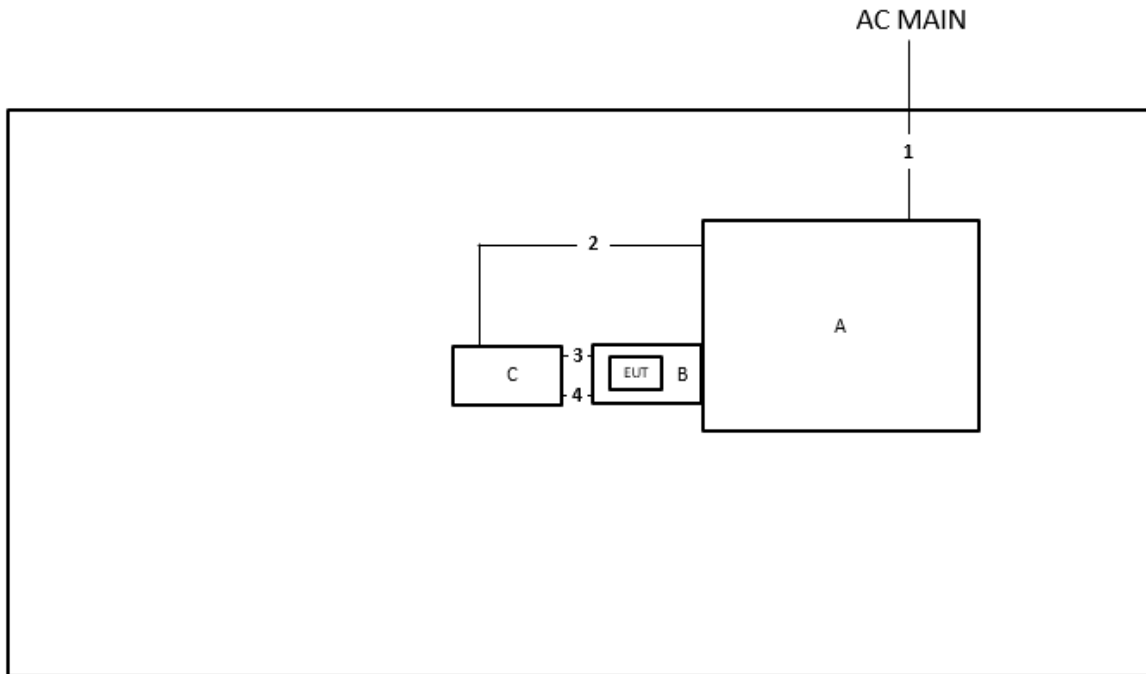
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Test Fixture	Azurewave	2304NF-i1	N/A
D	Test Fixture	Azurewave	2458-i6	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	USB cable	Yes	1m
3	Console cable	No	0.15m
4	Console cable	No	0.15m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	USB cable	Yes	1.5m
3	Console cable	No	0.15m
4	Console cable	No	0.15m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

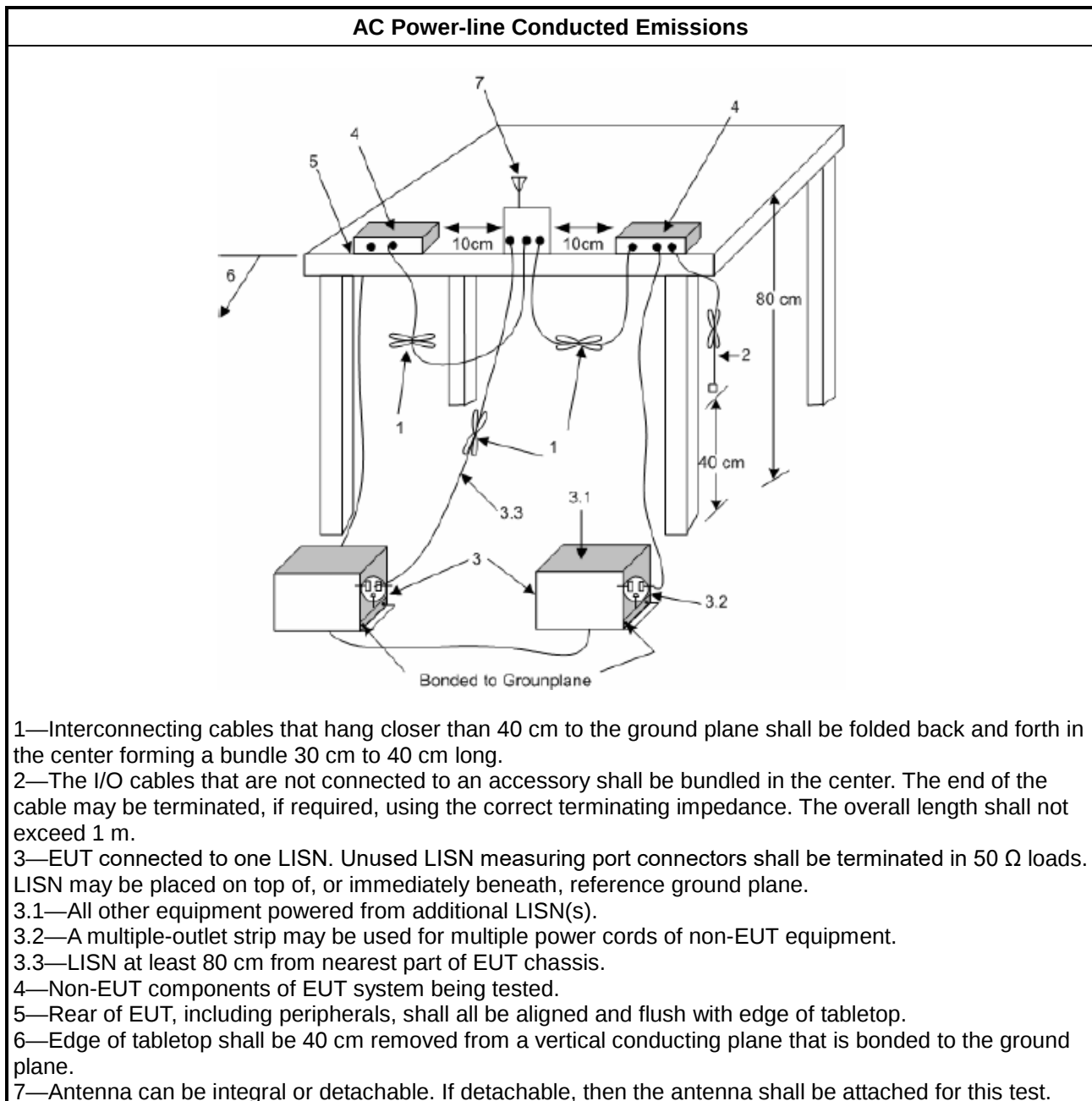
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

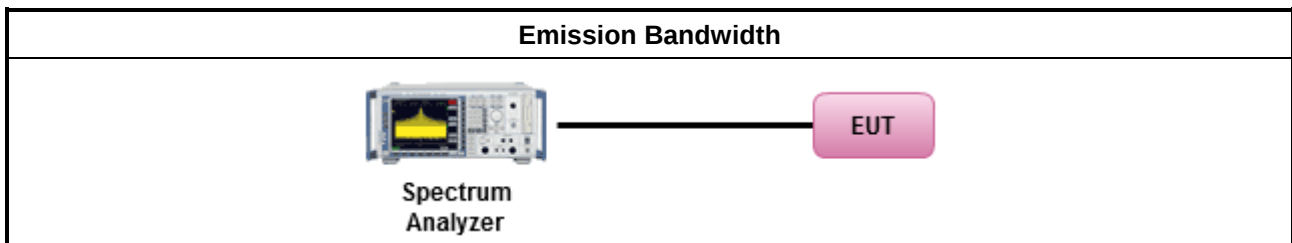
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

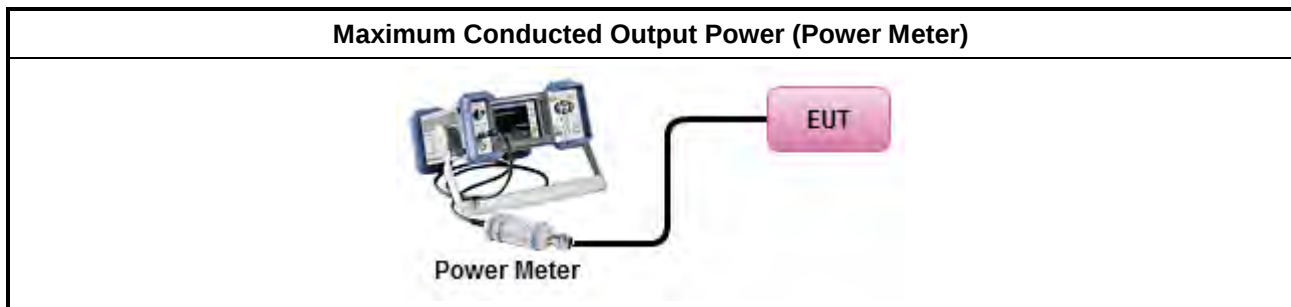
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (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
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

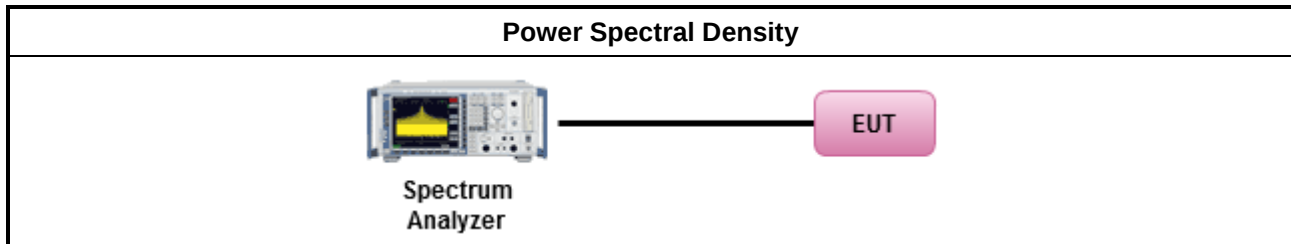
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

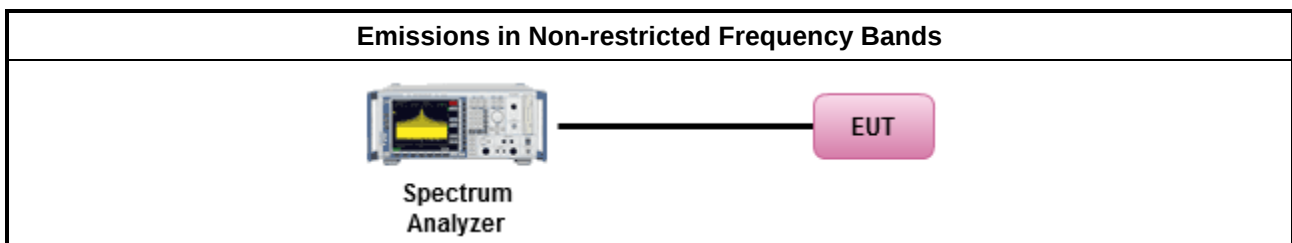
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

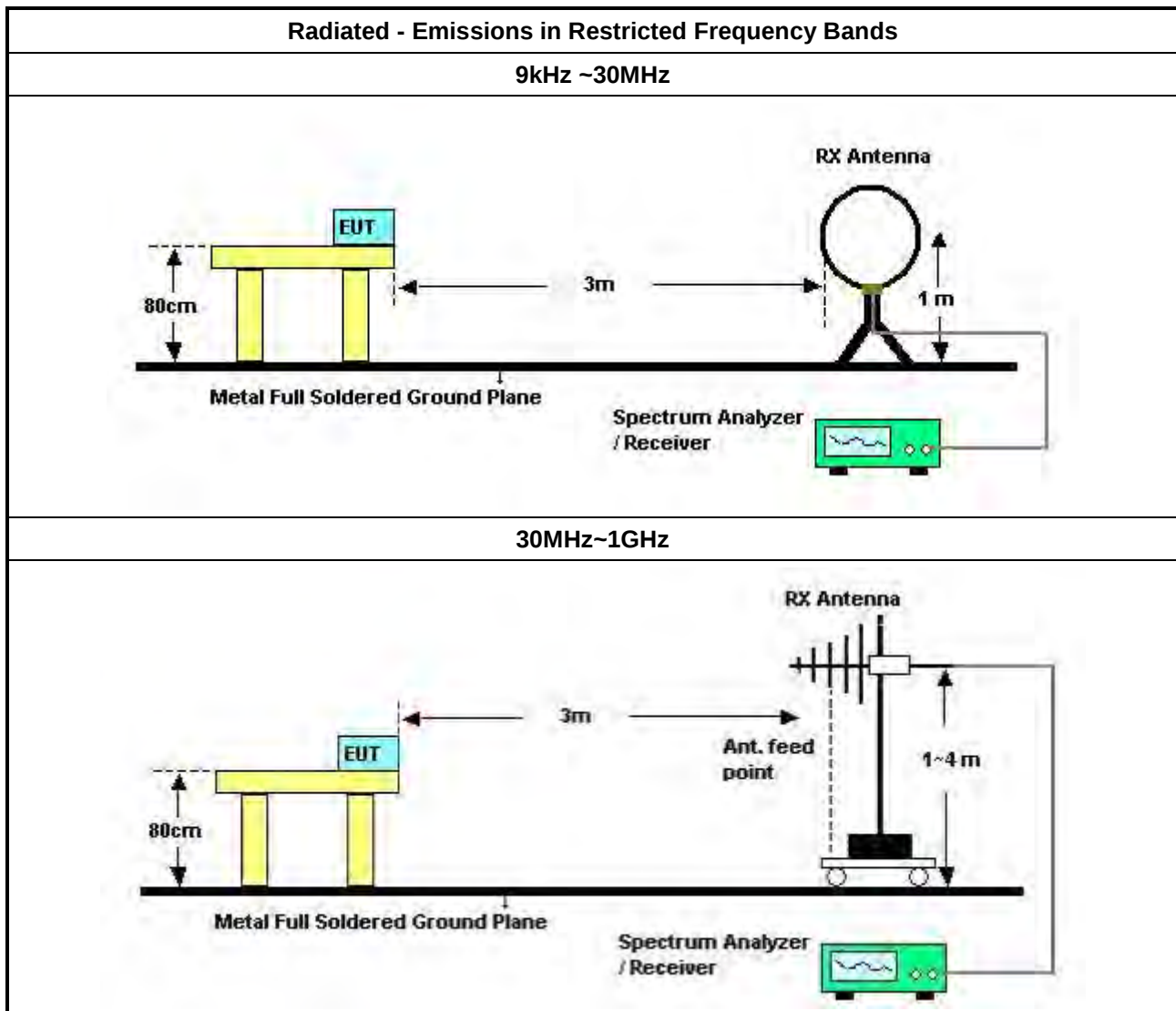
Refer a test equipment and calibration data table in this test report.

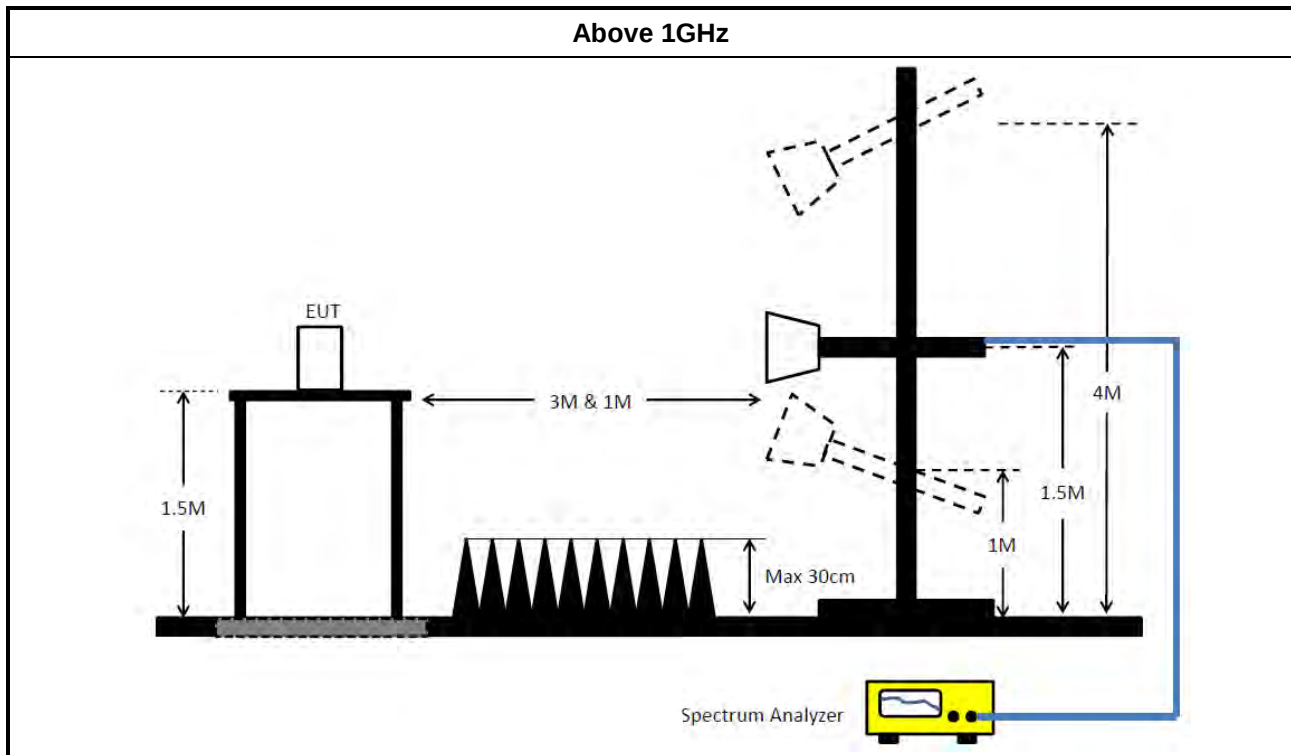


3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
	☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





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	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 18, 2024	Jan. 17, 2025	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 18, 2024	Feb. 17, 2025	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH0301	20230109-2	10M~1GHz	Jun. 22, 2024	Jun. 21, 2025	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 20, 2023	Oct. 19, 2024	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-31+32	30 MHz ~ 1 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2024	May 26, 2025	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 12, 2023	Sep. 11, 2024	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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



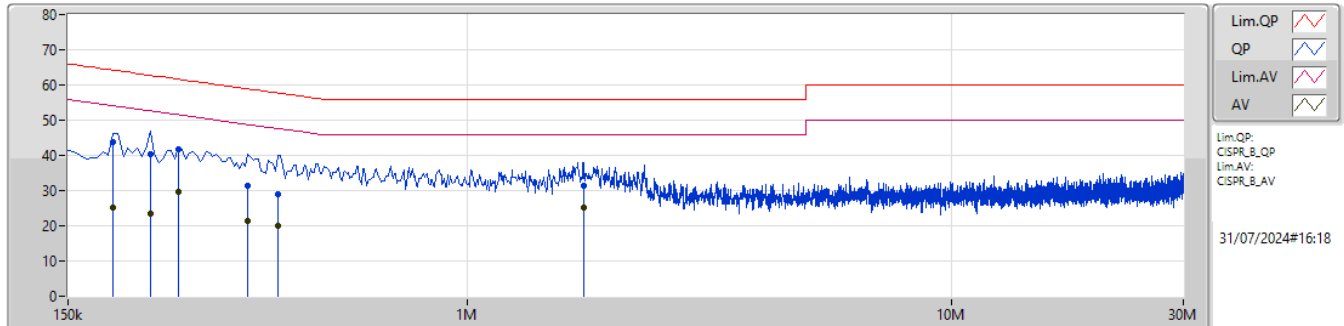
Conducted Emissions at Powerline

Appendix A

Summary

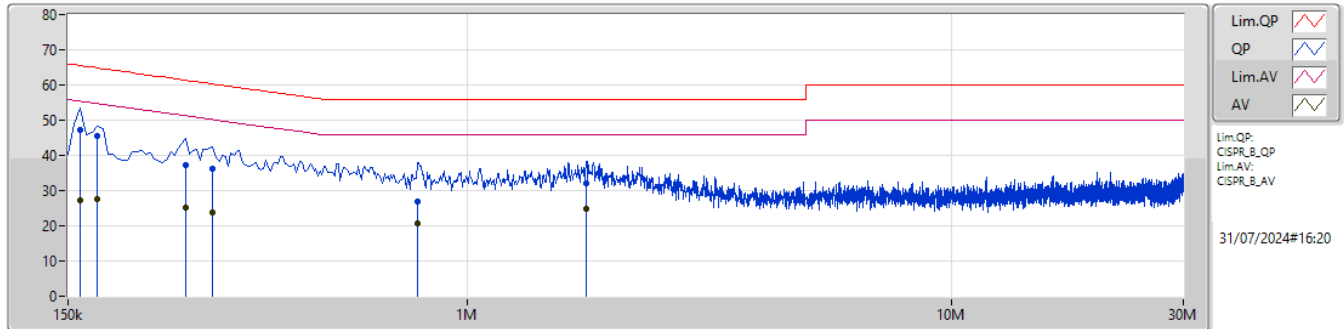
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	159k	47.31	65.52	-18.21	Neutral

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	186k	43.95	64.20	-20.25	9.92	Line	-	34.03	0.05	0.02	9.85						
AV	186k	25.23	54.20	-28.97	9.92	Line	-	15.31	0.05	0.02	9.85						
QP	222k	40.26	62.75	-22.49	9.93	Line	-	30.33	0.05	0.02	9.86						
AV	222k	23.36	52.75	-29.39	9.93	Line	-	13.43	0.05	0.02	9.86						
QP	253.5k	41.82	61.64	-19.82	9.93	Line	"Worst"	31.89	0.05	0.02	9.86						
AV	253.5k	29.55	51.64	-22.09	9.93	Line	-	19.62	0.05	0.02	9.86						
QP	352.5k	31.38	58.91	-27.53	9.95	Line	-	21.43	0.05	0.02	9.88						
AV	352.5k	21.28	48.91	-27.63	9.95	Line	-	11.33	0.05	0.02	9.88						
QP	406.5k	29.06	57.72	-28.66	9.96	Line	-	19.10	0.05	0.02	9.89						
AV	406.5k	20.02	47.72	-27.70	9.96	Line	-	10.06	0.05	0.02	9.89						
QP	1.734M	31.26	56.00	-24.74	10.04	Line	-	21.22	0.09	0.06	9.89						
AV	1.734M	25.09	46.00	-20.91	10.04	Line	-	15.05	0.09	0.06	9.89						

Mode 3



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	159k	47.31	65.52	-18.21	9.93	Neutral	"Worst"	37.38	0.05	0.02	9.86						
AV	159k	27.11	55.52	-28.41	9.93	Neutral	-	17.18	0.05	0.02	9.86						
QP	172.5k	45.56	64.83	-19.27	9.93	Neutral	-	35.63	0.05	0.02	9.86						
AV	172.5k	27.67	54.83	-27.16	9.93	Neutral	-	17.74	0.05	0.02	9.86						
QP	262.5k	37.26	61.35	-24.09	9.94	Neutral	-	27.32	0.05	0.02	9.87						
AV	262.5k	25.11	51.35	-26.24	9.94	Neutral	-	15.17	0.05	0.02	9.87						
QP	298.5k	36.10	60.28	-24.18	9.94	Neutral	-	26.16	0.05	0.02	9.87						
AV	298.5k	23.73	50.28	-26.55	9.94	Neutral	-	13.79	0.05	0.02	9.87						
QP	789k	26.95	56.00	-29.05	9.97	Neutral	-	16.98	0.06	0.01	9.90						
AV	789k	20.77	46.00	-25.23	9.97	Neutral	-	10.80	0.06	0.01	9.90						
QP	1.761M	32.20	56.00	-23.80	10.03	Neutral	-	22.17	0.08	0.06	9.89						
AV	1.761M	24.94	46.00	-21.06	10.03	Neutral	-	14.91	0.08	0.06	9.89						

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	9.9M	13.635M	13M6G1D	9.05M	13.272M
802.11g_Nss1,(6Mbps)_2TX	16.55M	17.146M	17M1D1D	16.35M	16.548M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.625M	19.013M	19M0D1D	16.725M	18.767M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.65M	37.576M	37M6D1D	35.1M	37.389M

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	-	-	-	-	-	-
2462MHz	Pass	500k	9.05M	13.272M	9.9M	13.635M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.552M	16.35M	16.548M
2437MHz	Pass	500k	16.35M	16.74M	16.35M	17.146M
2462MHz	Pass	500k	16.55M	16.579M	16.475M	16.588M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.625M	18.787M	18.575M	18.767M
2437MHz	Pass	500k	18.1M	18.899M	17.95M	19.013M
2462MHz	Pass	500k	16.725M	18.815M	18.325M	18.805M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.35M	37.576M	35.1M	37.419M
2437MHz	Pass	500k	37.65M	37.509M	36.4M	37.476M
2452MHz	Pass	500k	35.15M	37.389M	36.25M	37.547M

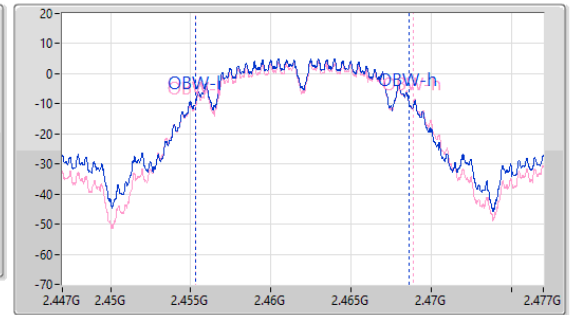
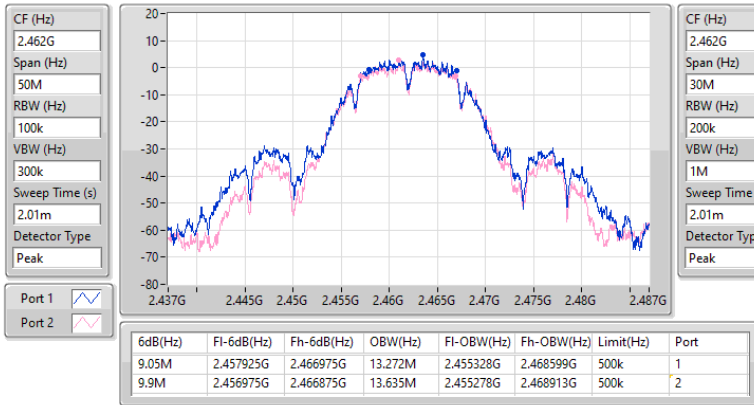
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2462MHz

22/07/2024

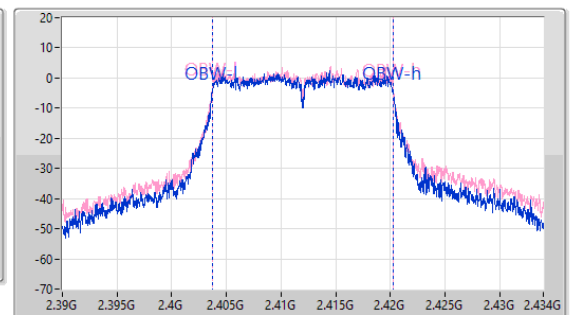
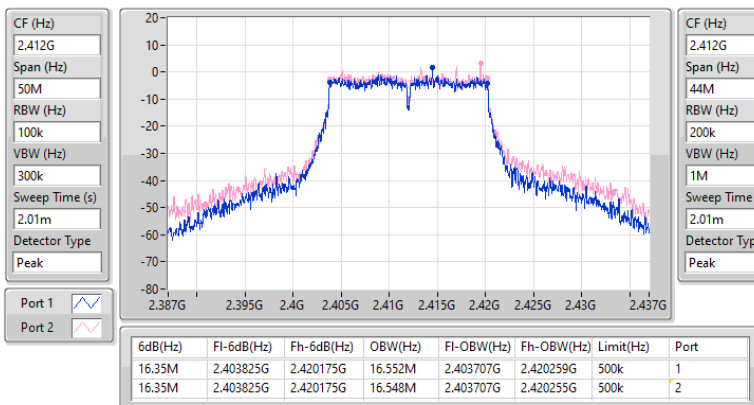


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

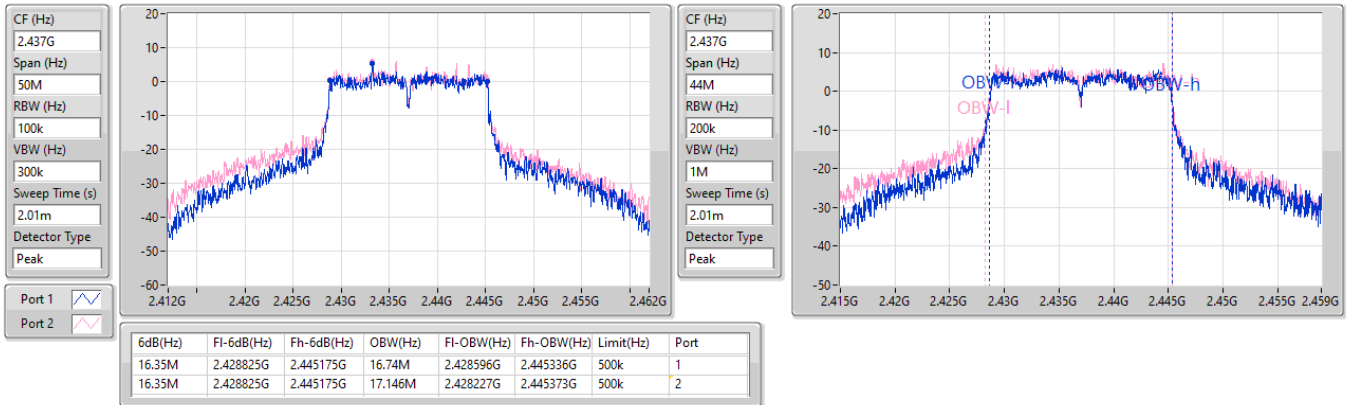
2412MHz

22/07/2024

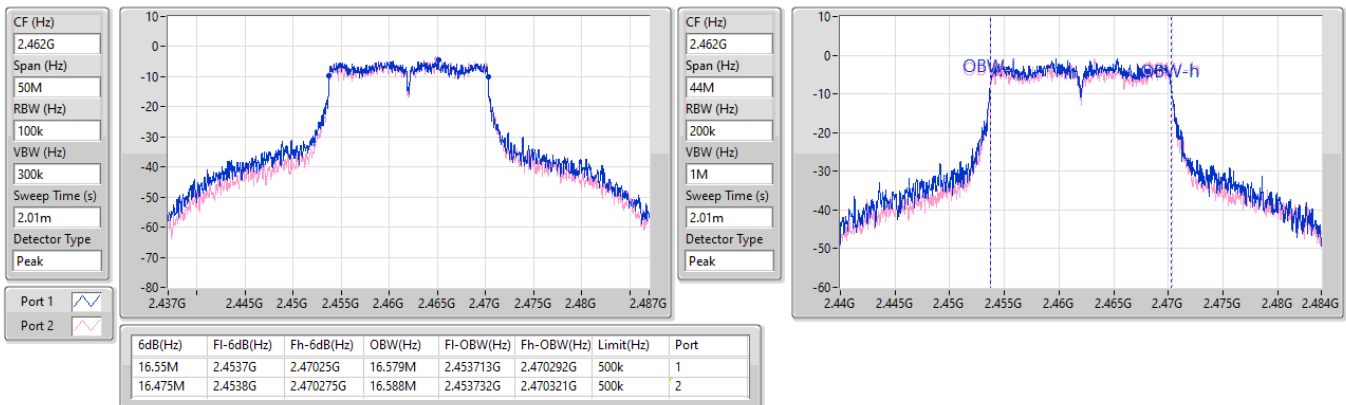


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

22/07/2024


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

22/07/2024

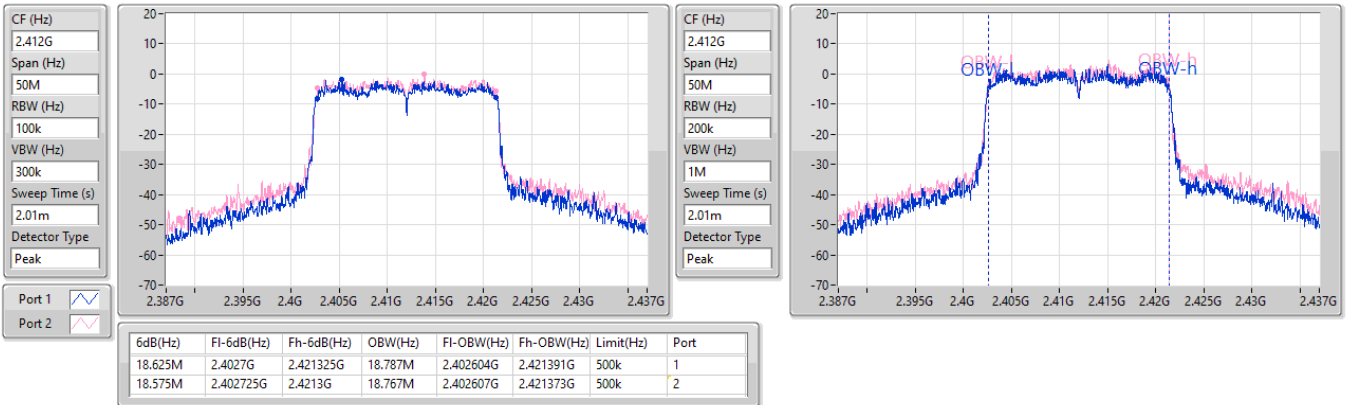


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

22/07/2024

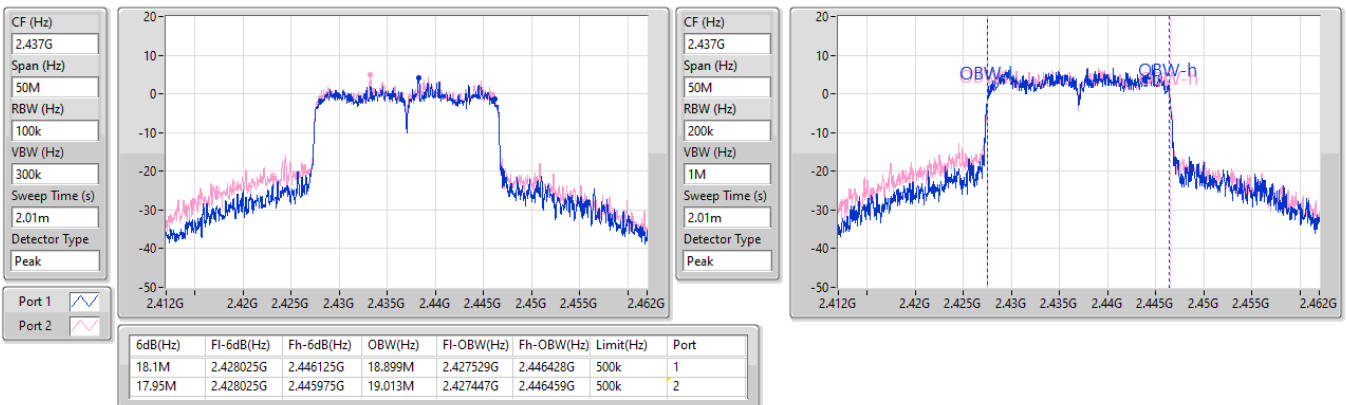


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

22/07/2024

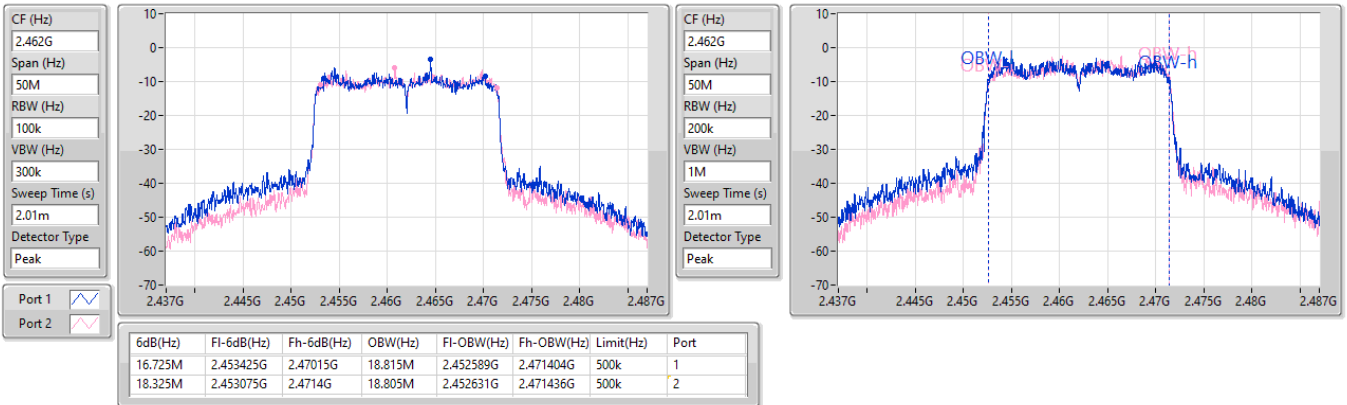


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

22/07/2024

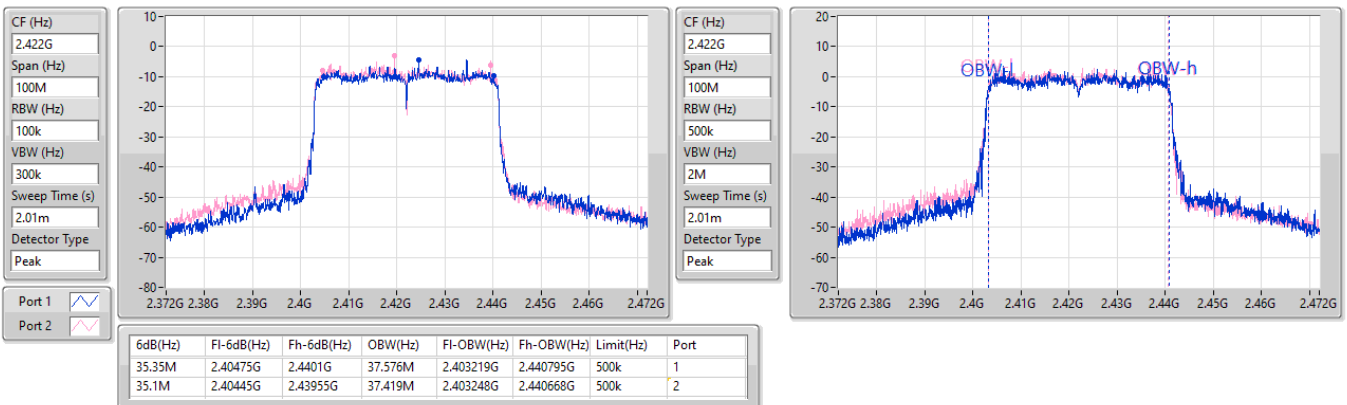


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

22/07/2024

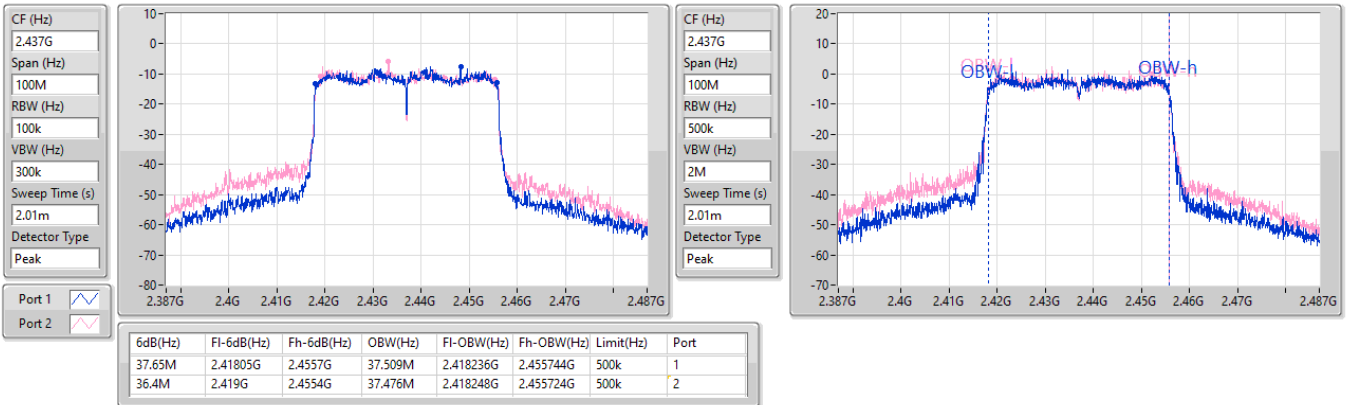


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

22/07/2024

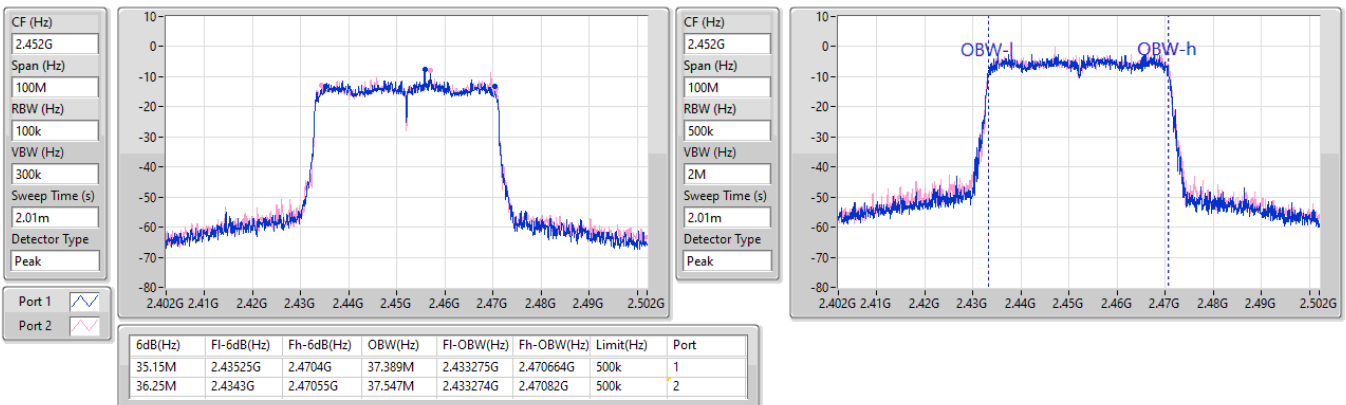


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

22/07/2024





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	18.06	0.06397
802.11g_Nss1,(6Mbps)_2TX	20.83	0.12106
802.11ax HEW20_Nss1,(MCS0)_2TX	20.43	0.11041
802.11ax HEW40_Nss1,(MCS0)_2TX	13.82	0.02410

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2457MHz	Pass	1.25	15.60	14.42	18.06	30.00
2462MHz	Pass	1.25	14.58	13.43	17.05	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.25	13.59	12.70	16.18	30.00
2417MHz	Pass	1.25	14.95	14.35	17.67	30.00
2437MHz	Pass	1.25	18.00	17.64	20.83	30.00
2457MHz	Pass	1.25	14.11	13.30	16.73	30.00
2462MHz	Pass	1.25	10.15	9.32	12.77	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.25	13.08	12.21	15.68	30.00
2417MHz	Pass	1.25	14.42	13.71	17.09	30.00
2437MHz	Pass	1.25	17.54	17.29	20.43	30.00
2457MHz	Pass	1.25	13.04	12.18	15.64	30.00
2462MHz	Pass	1.25	7.98	7.18	10.61	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.25	11.25	10.33	13.82	30.00
2437MHz	Pass	1.25	9.85	9.05	12.48	30.00
2447MHz	Pass	1.25	7.41	6.90	10.17	30.00
2452MHz	Pass	1.25	6.70	6.60	9.66	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	-9.74
802.11g_Nss1,(6Mbps)_2TX	-6.96
802.11ax HEW20_Nss1,(MCS0)_2TX	-6.39
802.11ax HEW40_Nss1,(MCS0)_2TX	-17.09

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	-	-	-	-	-	-
2462MHz	Pass	4.26	-10.65	-13.07	-9.74	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.26	-13.57	-12.29	-11.53	8.00
2437MHz	Pass	4.26	-9.68	-9.19	-6.96	8.00
2462MHz	Pass	4.26	-17.12	-17.60	-14.96	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.26	-14.55	-13.87	-12.54	8.00
2437MHz	Pass	4.26	-10.64	-7.08	-6.39	8.00
2462MHz	Pass	4.26	-20.27	-19.89	-18.38	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.26	-19.17	-17.81	-17.09	8.00
2437MHz	Pass	4.26	-21.29	-20.68	-19.38	8.00
2452MHz	Pass	4.26	-23.36	-23.31	-21.41	8.00

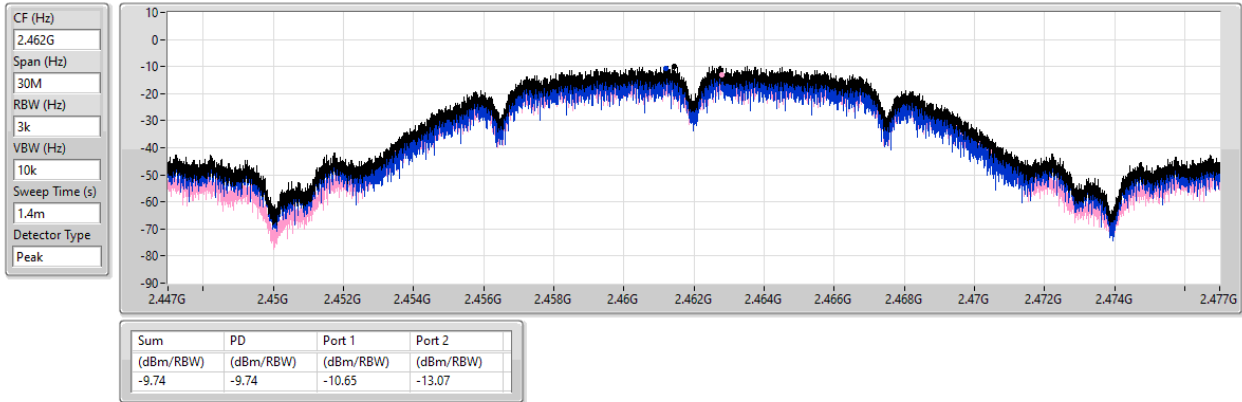
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

PSD

2462MHz

22/07/2024

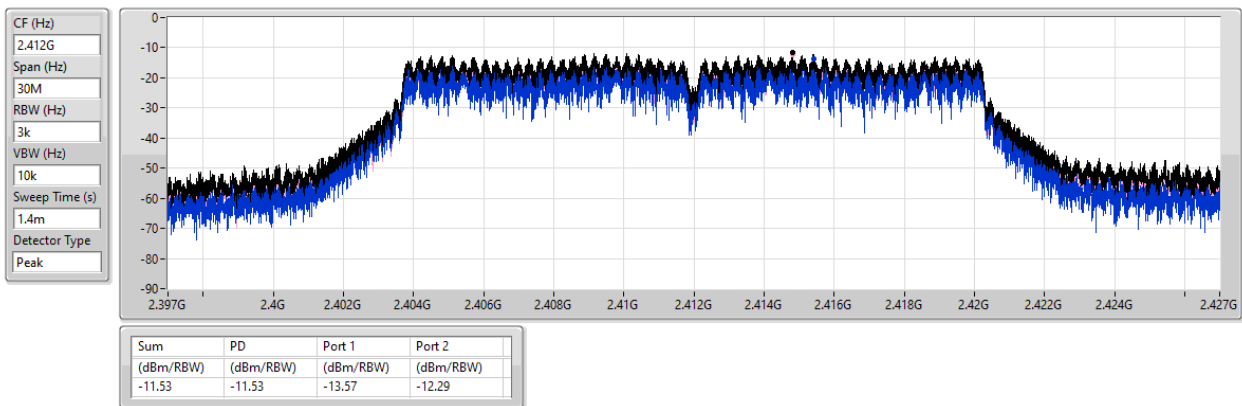


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

22/07/2024

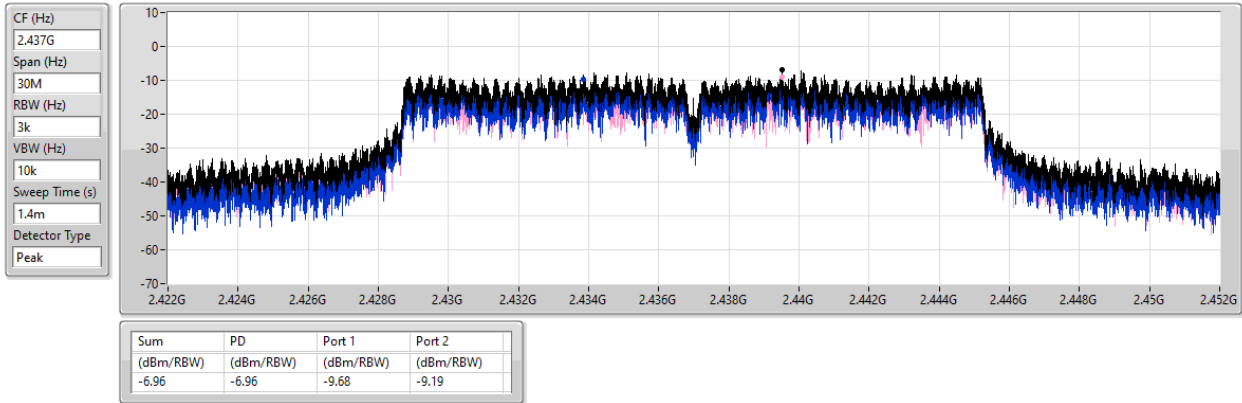


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

22/07/2024

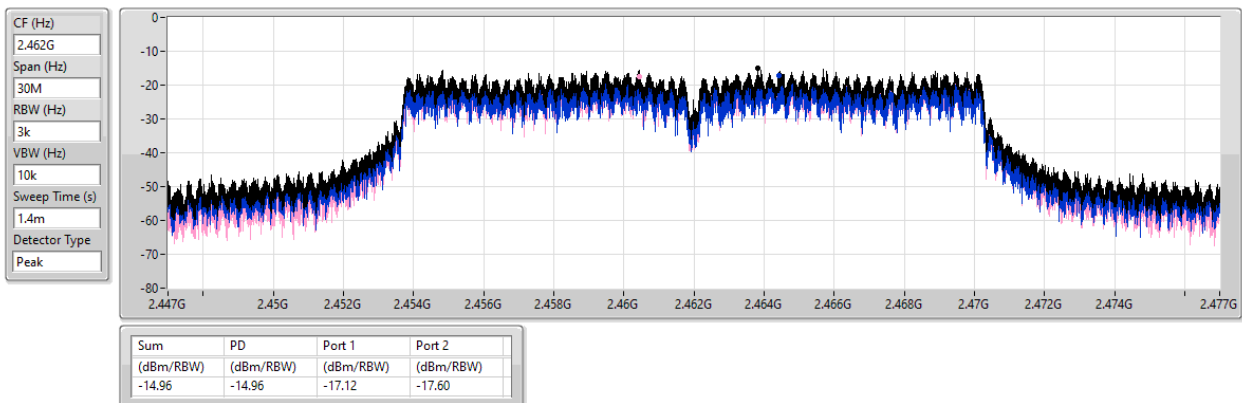


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

22/07/2024

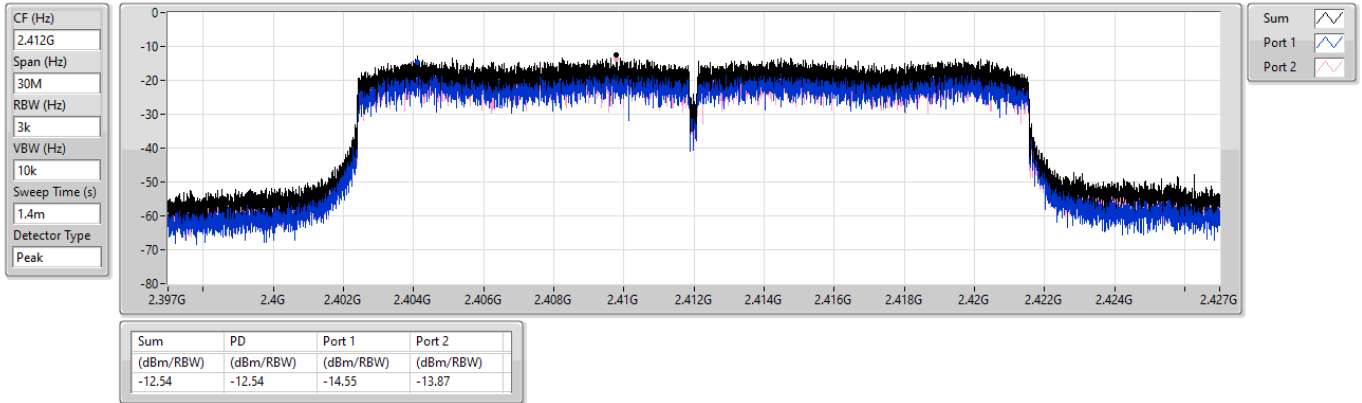


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

22/07/2024

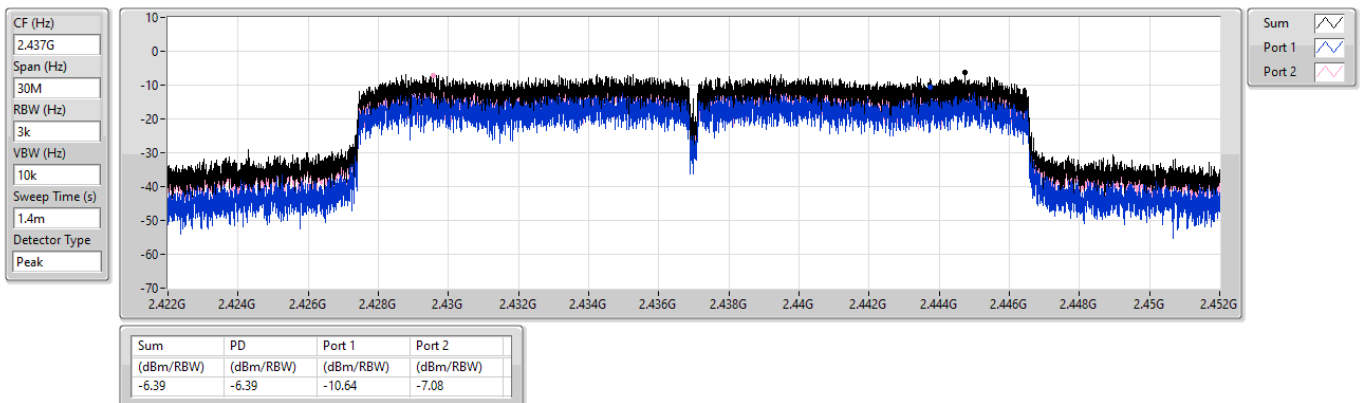


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

22/07/2024

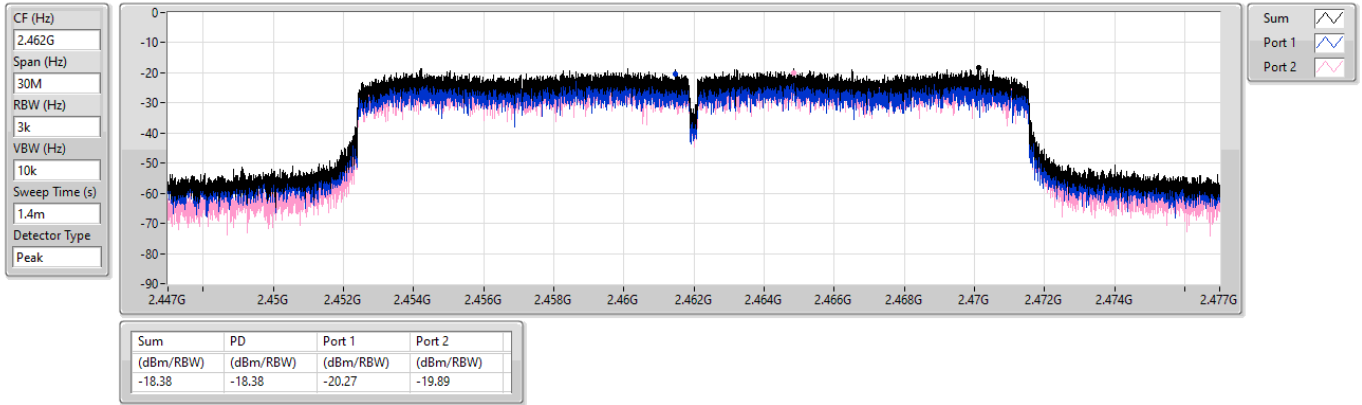


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

22/07/2024

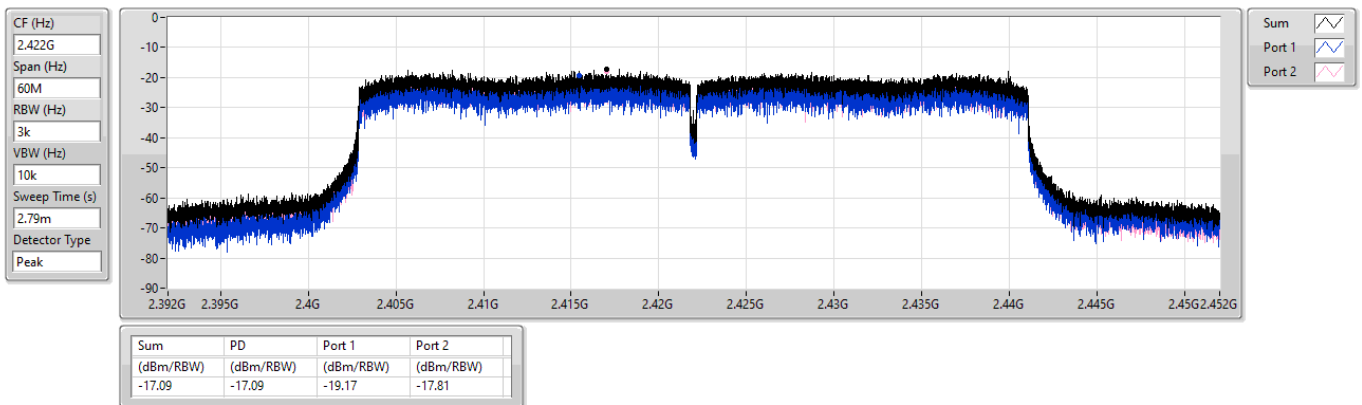


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

22/07/2024

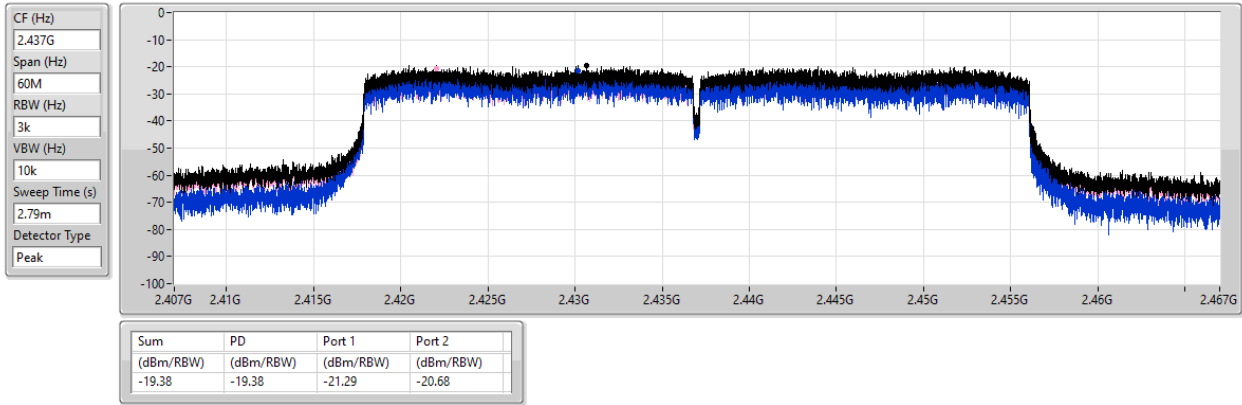


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

22/07/2024

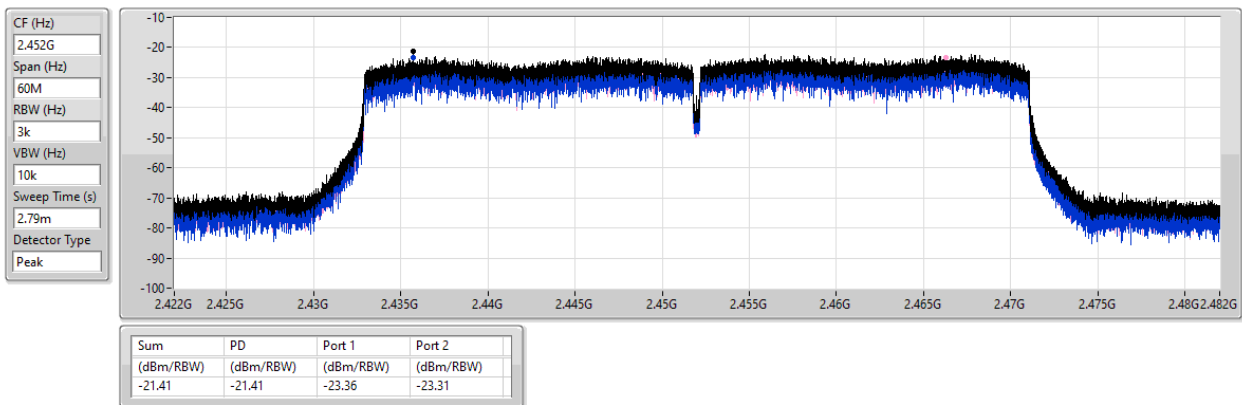


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

22/07/2024





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	2.46045G	4.76	-25.24	144.17M	-54.21	2.39304G	-51.25	2.4G	-55.99	2.51094G	-51.65	21.95162G	-45.77	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44459G	5.30	-24.70	2.11885G	-54.31	2.39984G	-37.14	2.4G	-36.38	2.51526G	-51.13	21.91229G	-45.21	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44442G	5.95	-24.05	1.73207G	-54.48	2.39976G	-35.74	2.4G	-36.34	2.51334G	-51.69	21.94039G	-46.10	2
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.42572G	-3.54	-33.54	2.03375G	-54.62	2.3992G	-44.45	2.4G	-45.55	2.56014G	-54.18	21.59526G	-45.49	1

Result

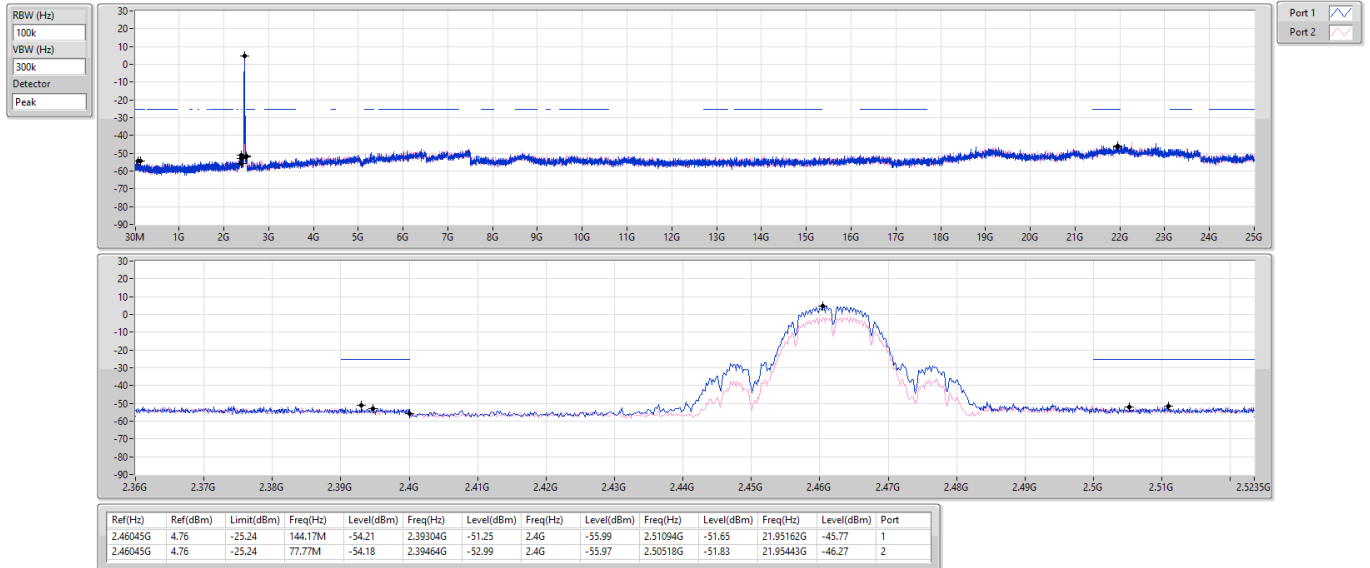
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2462MHz	Pass	2.46045G	4.76	-25.24	144.17M	-54.21	2.39304G	-51.25	2.4G	-55.99	2.51094G	-51.65	21.95162G	-45.77	1
2462MHz	Pass	2.46045G	4.76	-25.24	77.77M	-54.18	2.39464G	-52.99	2.4G	-55.97	2.50518G	-51.83	21.95443G	-46.27	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44459G	5.30	-24.70	2.11885G	-54.31	2.39984G	-37.14	2.4G	-36.38	2.51526G	-51.13	21.91229G	-45.21	1
2412MHz	Pass	2.44459G	5.30	-24.70	40.49M	-53.69	2.3992G	-38.83	2.4G	-38.84	2.50742G	-51.63	22.0022G	-43.81	2
2437MHz	Pass	2.44459G	5.30	-24.70	2.16545G	-54.13	2.3992G	-46.45	2.4G	-47.29	2.51222G	-51.04	21.97129G	-44.63	1
2437MHz	Pass	2.44459G	5.30	-24.70	188.44M	-53.07	2.39952G	-44.59	2.4G	-43.70	2.51398G	-51.21	21.99939G	-46.14	2
2462MHz	Pass	2.44459G	5.30	-24.70	30M	-54.44	2.39592G	-52.16	2.4G	-55.47	2.5039G	-51.89	21.9432G	-45.46	1
2462MHz	Pass	2.44459G	5.30	-24.70	2.0571G	-52.64	2.39424G	-52.49	2.4G	-55.52	2.51262G	-51.41	21.75215G	-46.52	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44442G	5.95	-24.05	2.30758G	-54.52	2.39968G	-37.20	2.4G	-38.32	2.5091G	-52.29	21.95724G	-46.68	1
2412MHz	Pass	2.44442G	5.95	-24.05	1.73207G	-54.48	2.39976G	-35.74	2.4G	-36.34	2.51334G	-51.69	21.94039G	-46.10	2
2437MHz	Pass	2.44442G	5.95	-24.05	2.00584G	-53.78	2.39248G	-44.98	2.4G	-46.73	2.50118G	-51.36	21.97972G	-45.71	1
2437MHz	Pass	2.44442G	5.95	-24.05	1.8276G	-54.89	2.39976G	-44.25	2.4G	-43.11	2.5059G	-51.30	21.90386G	-45.47	2
2462MHz	Pass	2.44442G	5.95	-24.05	2.07924G	-53.40	2.392G	-51.74	2.4G	-54.58	2.5119G	-51.78	21.94039G	-45.70	1
2462MHz	Pass	2.44442G	5.95	-24.05	89.42M	-54.29	2.39144G	-52.20	2.4G	-56.26	2.50766G	-52.41	21.92915G	-45.74	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42572G	-3.54	-33.54	2.03375G	-54.62	2.3992G	-44.45	2.4G	-45.55	2.56014G	-54.18	21.59526G	-45.49	1
2422MHz	Pass	2.42572G	-3.54	-33.54	2.30626G	-54.15	2.39936G	-47.24	2.4G	-46.51	2.51086G	-54.55	21.73829G	-45.71	2
2437MHz	Pass	2.42572G	-3.54	-33.54	64.35M	-54.37	2.39952G	-48.62	2.4G	-50.04	2.54078G	-54.49	21.91779G	-45.65	1
2437MHz	Pass	2.42572G	-3.54	-33.54	1.77727G	-54.04	2.39712G	-46.71	2.4G	-48.15	2.55998G	-52.99	21.93461G	-45.73	2
2452MHz	Pass	2.42572G	-3.54	-33.54	44.89M	-54.09	2.39376G	-54.76	2.4G	-56.60	2.54766G	-53.51	21.97949G	-44.75	1
2452MHz	Pass	2.42572G	-3.54	-33.54	36.87M	-54.38	2.39376G	-55.01	2.4G	-56.87	2.5139G	-54.34	21.92339G	-45.64	2

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

CSEndB

2462MHz

22/07/2024

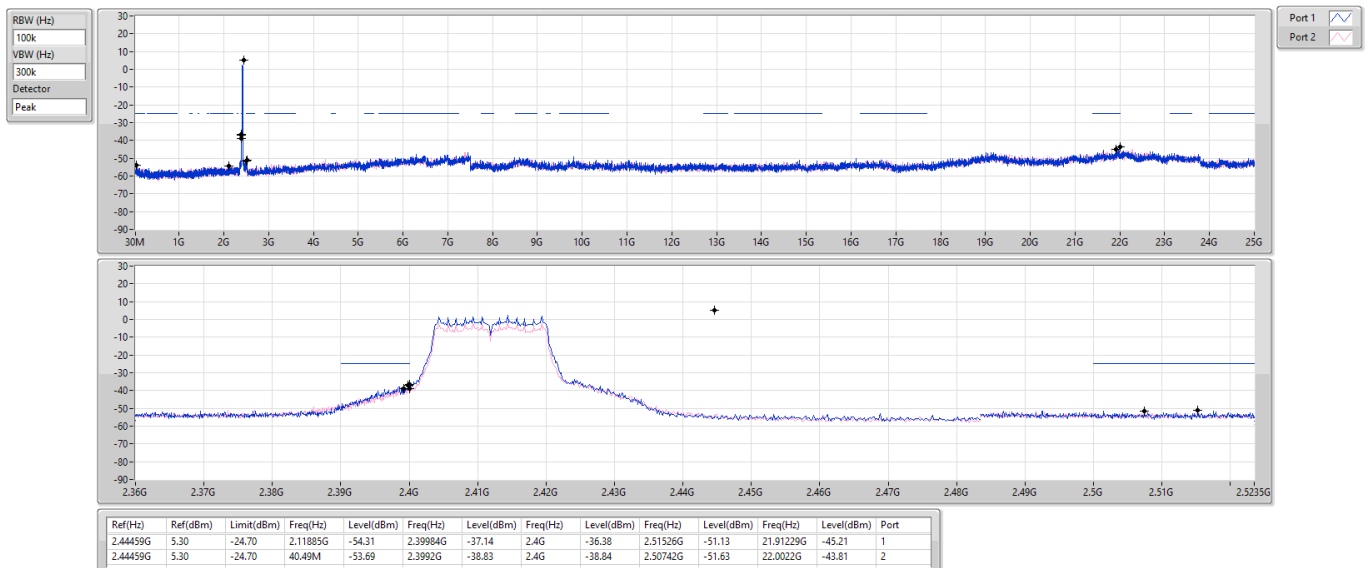


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2412MHz

22/07/2024



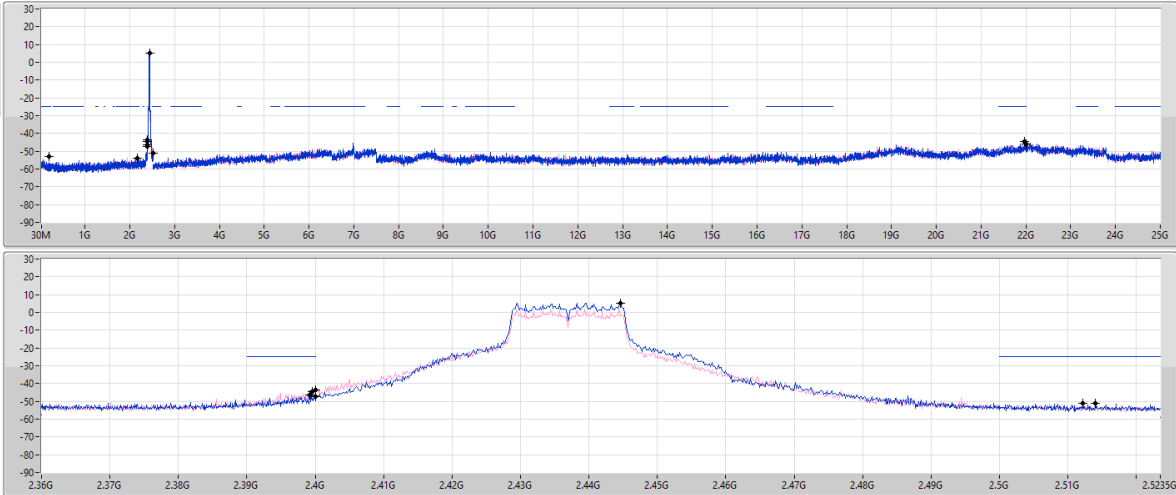
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2437MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

22/07/2024
Port 1
Port 2



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
2.44439G	5.30	-24.70	2.16545G	-54.13	2.3992G	-46.45	2.4G	-47.29	2.51222G	-51.04	2.197129G	-44.63	1
2.44439G	5.30	-24.70	188.44M	-53.07	2.39952G	-44.59	2.4G	-43.70	2.51398G	-51.21	2.199939G	-46.14	2

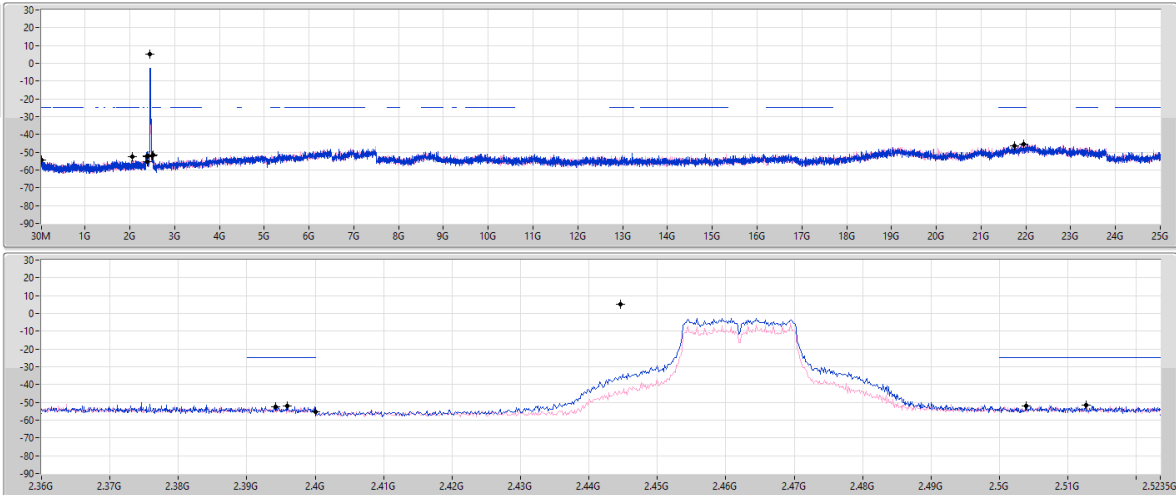
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2462MHz

RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

22/07/2024
Port 1
Port 2



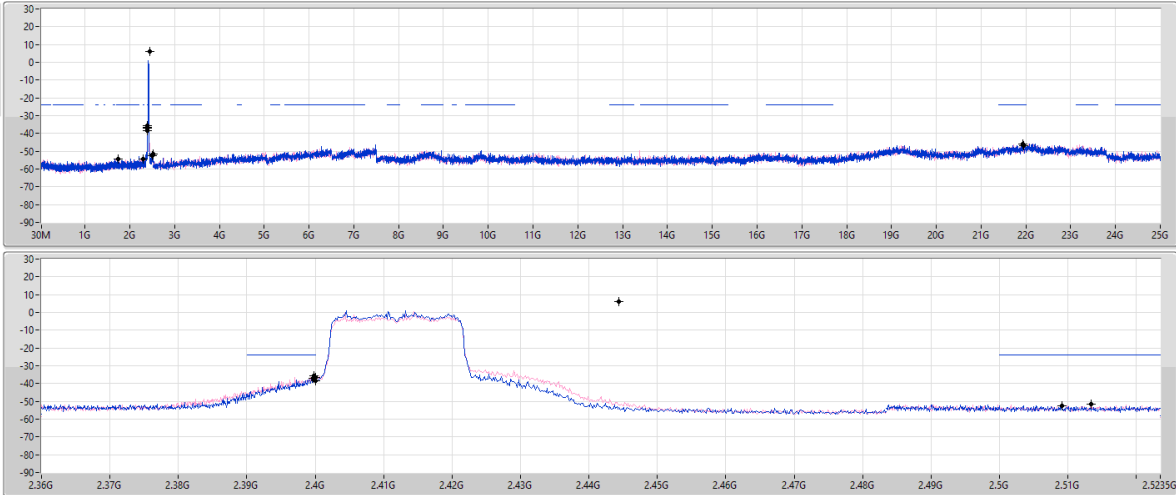
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44439G	5.30	-24.70	30M	-54.44	2.39592G	-52.16	2.4G	-55.47	2.5039G	-51.89	2.19432G	-45.46	1
2.44439G	5.30	-24.70	2.0571G	-52.64	2.39424G	-52.49	2.4G	-55.52	2.51262G	-51.41	2.175215G	-46.52	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2412MHz

22/07/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

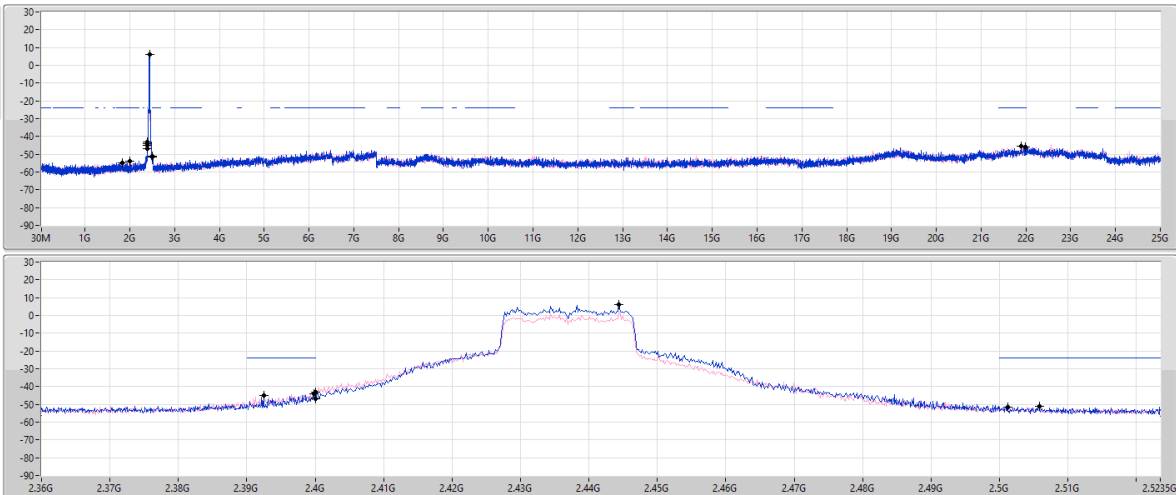
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	5.95	-24.05	2.30758G	-54.52	2.39968G	-37.20	2.4G	-38.32	2.5091G	-52.29	21.95724G	-46.68	1
2.44442G	5.95	-24.05	1.73207G	-54.48	2.39976G	-35.74	2.4G	-36.34	2.51334G	-51.69	21.94039G	-46.10	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2437MHz

22/07/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

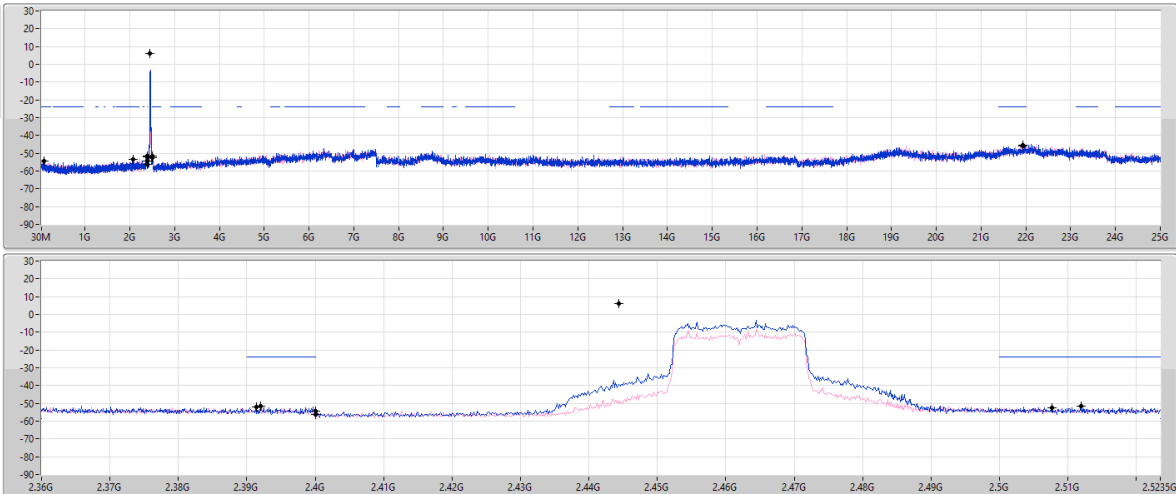
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	5.95	-24.05	2.00584G	-53.78	2.39248G	-44.98	2.4G	-46.73	2.50118G	-51.36	21.97972G	-45.71	1
2.44442G	5.95	-24.05	1.8276G	-54.89	2.39976G	-44.25	2.4G	-43.11	2.5059G	-51.30	21.90386G	-45.47	2

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_2TX

CSEndB

2462MHz

22/07/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

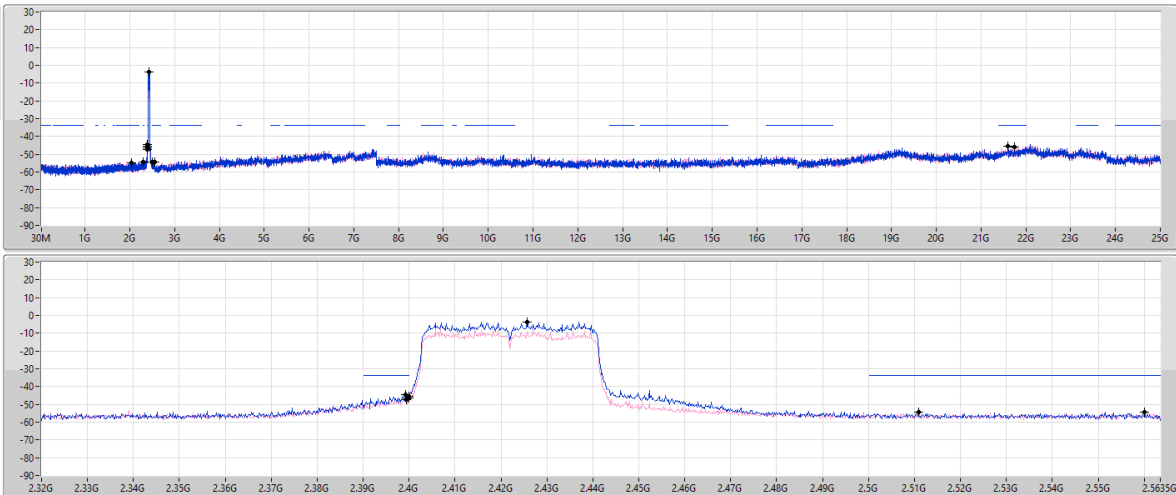
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	5.95	-24.05	2.07924G	-53.40	2.392G	-51.74	2.4G	-54.58	2.5119G	-51.78	21.94039G	-45.70	1
2.44442G	5.95	-24.05	89.42M	-54.29	2.39144G	-52.20	2.4G	-56.26	2.50766G	-52.41	21.92915G	-45.74	2

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

CSEndB

2422MHz

22/07/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

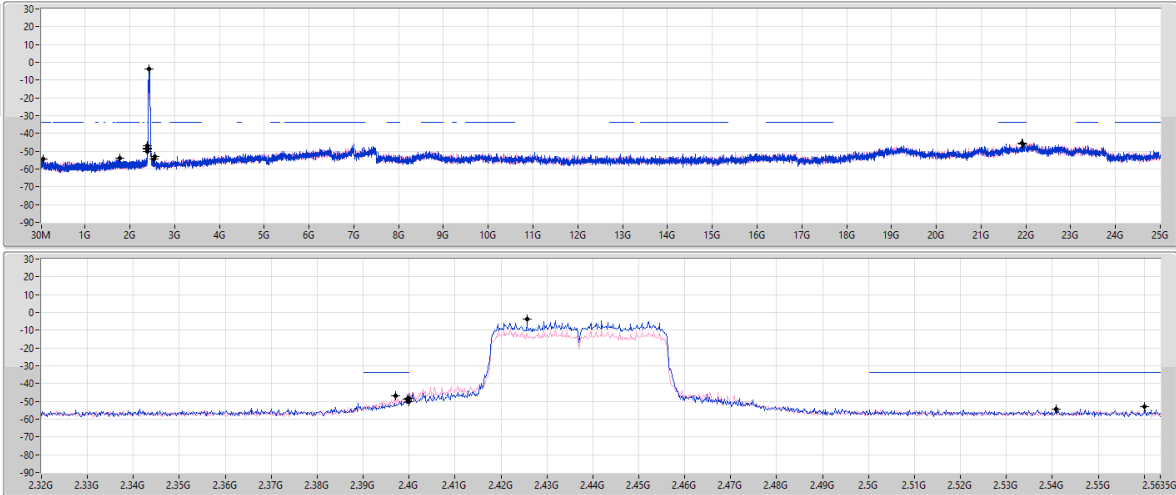
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42572G	-3.54	-33.54	2.03975G	-54.62	2.3992G	-44.45	2.4G	-45.55	2.58014G	-54.18	21.59526G	-45.49	1
2.42572G	-3.54	-33.54	2.30626G	-54.15	2.39936G	-47.24	2.4G	-46.51	2.51086G	-54.55	21.73829G	-45.71	2

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

CSEndB

2437MHz

22/07/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

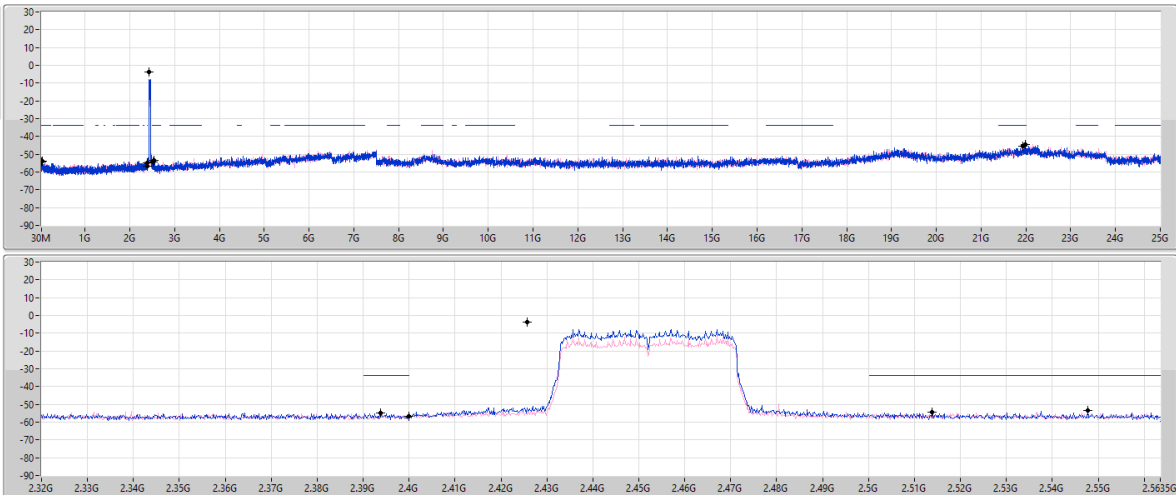
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42572G	-3.54	-33.54	64.35M	-54.37	2.39952G	-48.62	2.4G	-50.04	2.54078G	-54.49	21.91779G	-45.65	1
2.42572G	-3.54	-33.54	1.77727G	-54.04	2.39712G	-46.71	2.4G	-48.15	2.55998G	-52.99	21.93461G	-45.73	2

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

CSEndB

2452MHz

22/07/2024

RBW (Hz)
100k
VBW (Hz)
300k
Detector
PeakPort 1
Port 2

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
2.42572G	-3.54	-33.54	44.89M	-54.09	2.39378G	-54.76	2.4G	-56.60	2.54766G	-53.51	21.97949G	-44.75	1
2.42572G	-3.54	-33.54	36.87M	-54.38	2.39378G	-55.01	2.4G	-56.87	2.5139G	-54.34	21.92339G	-45.64	2



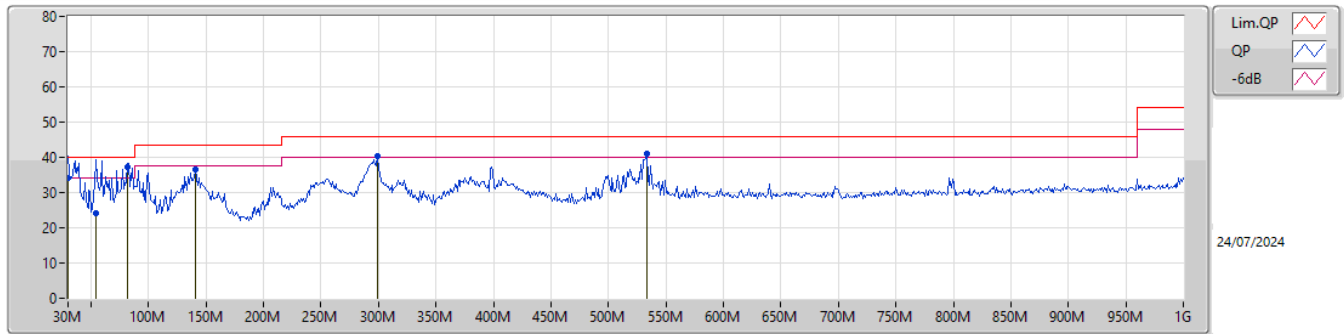
Radiated Emissions below 1GHz

Appendix F.1

Summary

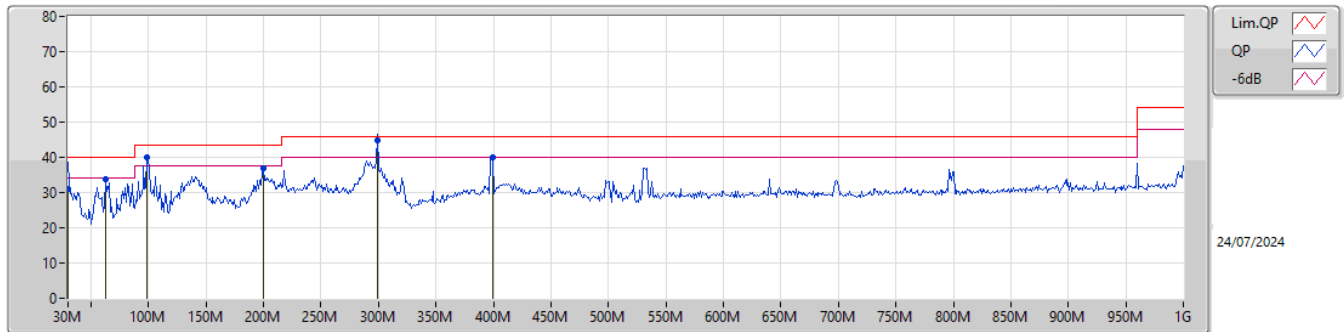
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	QP	299.66M	44.99	46.00	-1.01	Horizontal

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	30M	34.24	40.00	-5.76	-19.71	3	Vertical	360	1.00	-	53.95	24.06	0.68	44.45		
QP	54.25M	24.18	40.00	-15.82	-31.23	3	Vertical	242	3.00	-	55.41	12.80	0.86	44.89		
QP	81.41M	37.28	40.00	-2.72	-30.86	3	Vertical	324	1.00	"Worst"	68.14	12.56	1.01	44.43		
PK	140.58M	36.38	43.50	-7.12	-27.01	3	Vertical	189	1.00	-	63.39	16.39	1.32	44.72		
PK	298.69M	40.37	46.00	-5.63	-24.33	3	Vertical	298	2.00	-	64.70	18.19	1.98	44.50		
PK	533.43M	41.12	46.00	-4.88	-18.58	3	Vertical	2	1.25	-	59.70	22.98	2.50	44.06		

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
QP	30M	30.92	40.00	-9.08	-19.71	3	Horizontal	95	1.00	-	50.63	24.06	0.68	44.45		
PK	62.98M	33.83	40.00	-6.17	-31.80	3	Horizontal	189	1.00	-	65.63	12.05	0.93	44.78		
QP	98.87M	39.96	43.50	-3.54	-27.69	3	Horizontal	189	2.00	-	67.65	15.82	1.13	44.64		
PK	199.75M	36.79	43.50	-6.71	-28.77	3	Horizontal	182	1.25	-	65.56	14.34	1.58	44.69		
QP	299.66M	44.99	46.00	-1.01	-24.32	3	Horizontal	163	1.00	"Worst"	69.31	18.20	1.99	44.51		
PK	399.57M	39.83	46.00	-6.17	-21.10	3	Horizontal	298	1.00	-	60.93	20.74	2.22	44.06		

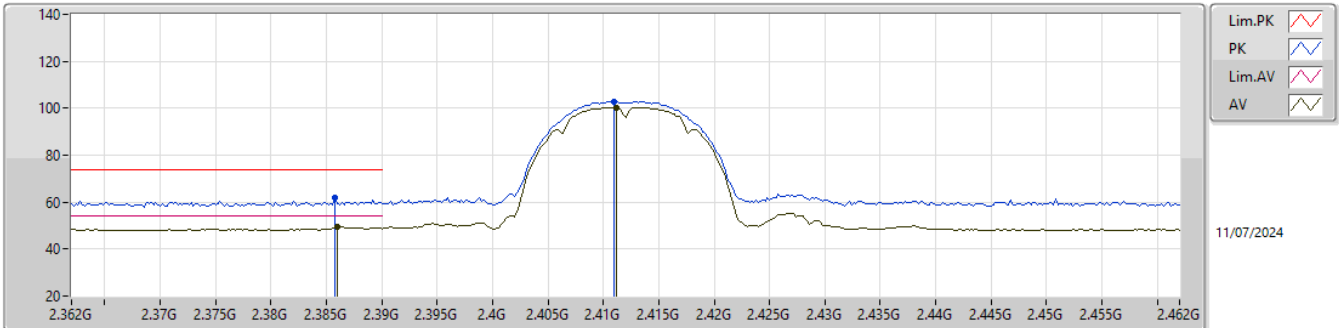


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4835G	52.92	54.00	-1.08	3	Horizontal	71	1.20	-

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

2412MHz_TX

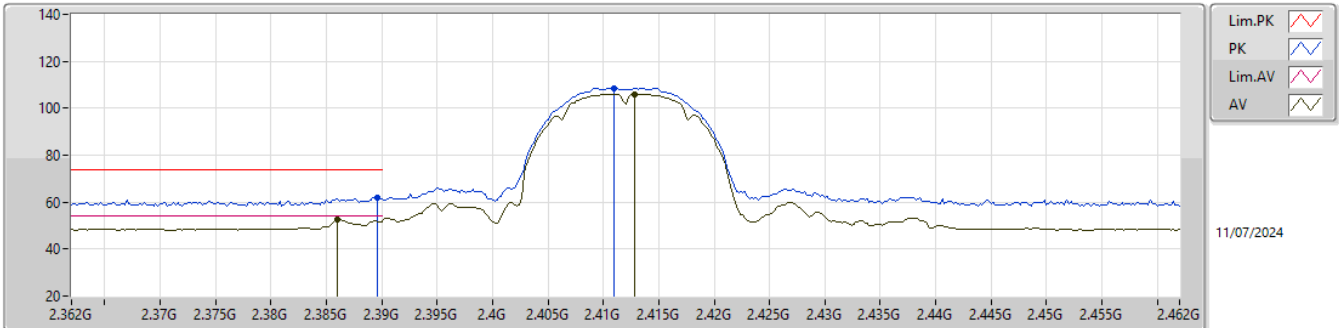


EUT_Z_2TX
Setting 17
01-I-P-5

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	61.86	74.00	-12.14	29.51	3	Vertical	291	2.10	-	27.70	4.65	-				
AV	2.386G	49.30	54.00	-4.70	16.95	3	Vertical	291	2.10	-	27.70	4.65	-				
PK	2.411G	102.72	Inf	-Inf	70.45	3	Vertical	291	2.10	-	27.61	4.66	-				
AV	2.4112G	100.32	Inf	-Inf	68.05	3	Vertical	291	2.10	-	27.61	4.66	-				

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

2412MHz_TX

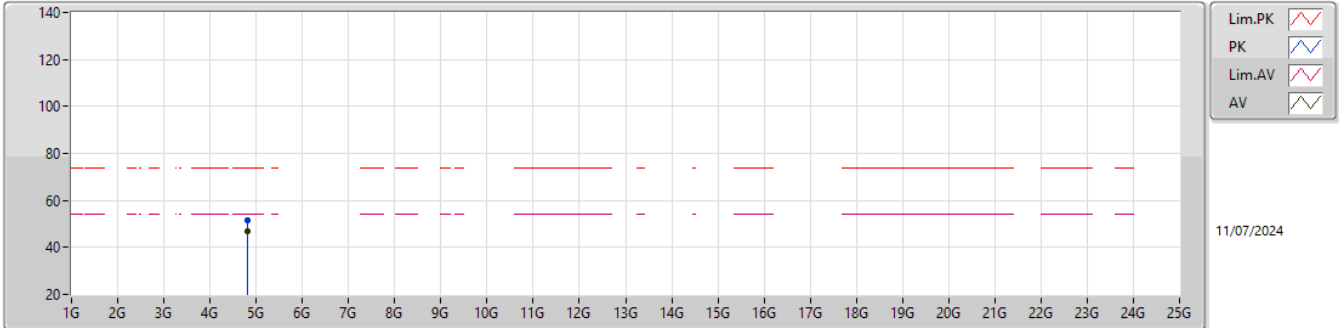


EUT_Z_2TX
Setting 17
01-I-P-5

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	2.3896G	62.00	74.00	-12.00	29.65	3	Horizontal	74	1.15	-	27.70	4.65	-			
AV	2.386G	52.65	54.00	-1.35	20.30	3	Horizontal	74	1.15	-	27.70	4.65	-			
PK	2.411G	108.53	Inf	-Inf	76.26	3	Horizontal	74	1.15	-	27.61	4.66	-			
AV	2.4128G	106.08	Inf	-Inf	73.79	3	Horizontal	74	1.15	-	27.63	4.66	-			

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

2412MHz_TX

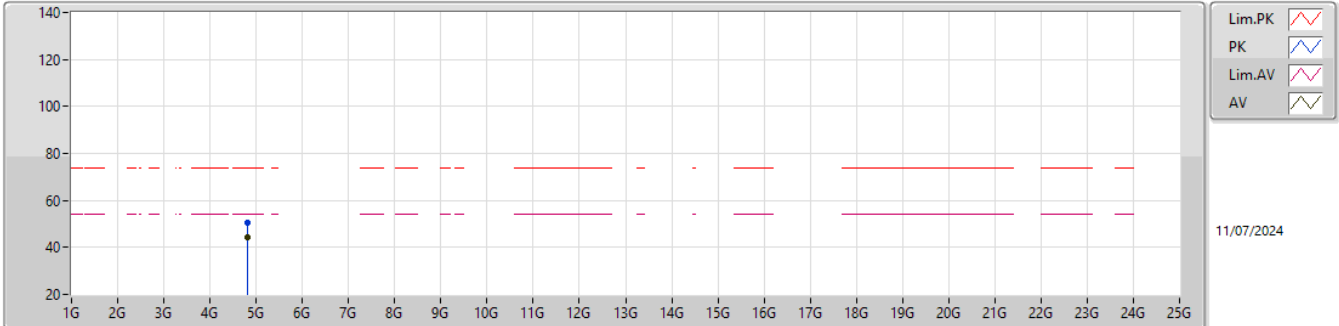


EUT_X_2TX
Setting 17
01-I-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.82384G	51.36	74.00	-22.64	45.70	3	Vertical	210	3.00	-	31.30	6.93	32.57			
AV	4.82396G	46.75	54.00	-7.25	41.09	3	Vertical	210	3.00	-	31.30	6.93	32.57			

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

2412MHz_TX

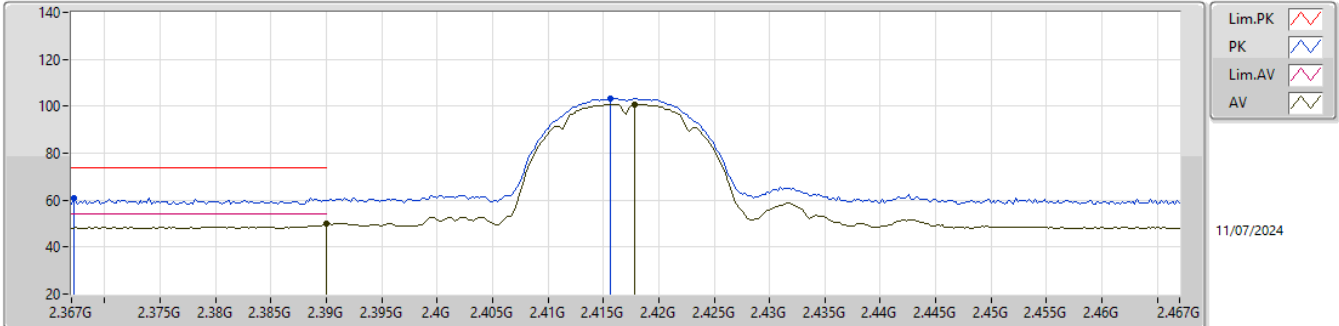


EUT_X_2TX
Setting 17
01-I-P-5

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	4.82408G	50.51	74.00	-23.49	44.85	3	Horizontal	208	1.80	-	31.30	6.93	32.57			
AV	4.82396G	44.54	54.00	-9.46	38.88	3	Horizontal	208	1.80	-	31.30	6.93	32.57			

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

2417MHz_TX

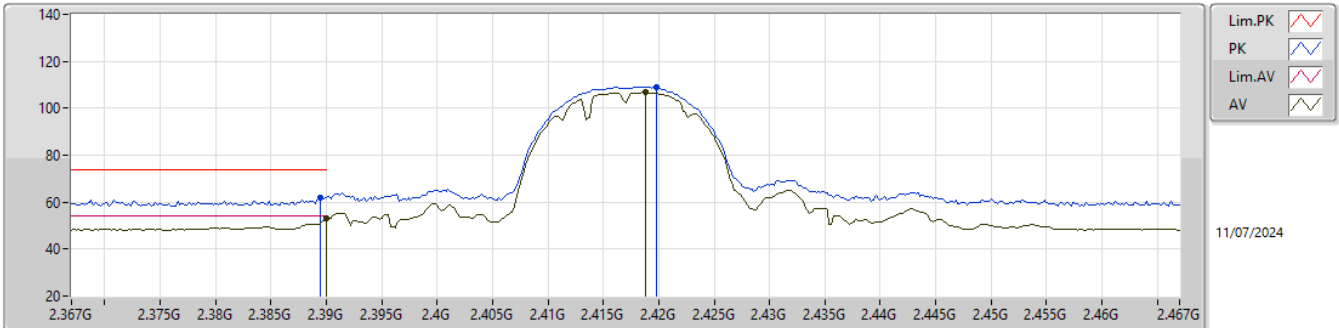


EUT_Z_2TX
Setting 18
01-I-P-5

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	2.3672G	60.94	74.00	-13.06	28.49	3	Vertical	292	2.43	-	27.83	4.62	-				
AV	2.39G	49.83	54.00	-4.17	17.47	3	Vertical	292	2.43	-	27.70	4.66	-				
PK	2.4156G	103.13	Inf	-Inf	70.81	3	Vertical	292	2.43	-	27.66	4.66	-				
AV	2.4178G	100.73	Inf	-Inf	68.40	3	Vertical	292	2.43	-	27.68	4.65	-				

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

2417MHz_TX

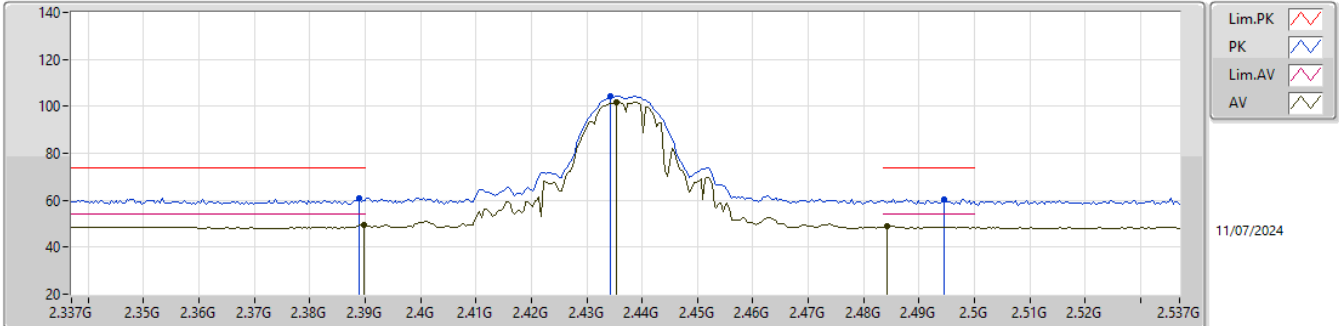


EUT_Z_2TX
Setting 18
01-I-P-5

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	2.3894G	62.00	74.00	-12.00	29.65	3	Horizontal	68	1.18	-	27.70	4.65	-			
AV	2.39G	52.85	54.00	-1.15	20.49	3	Horizontal	68	1.18	-	27.70	4.66	-			
PK	2.4198G	109.11	Inf	-Inf	76.76	3	Horizontal	68	1.18	-	27.70	4.65	-			
AV	2.4188G	106.72	Inf	-Inf	74.38	3	Horizontal	68	1.18	-	27.69	4.65	-			

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

2437MHz_TX

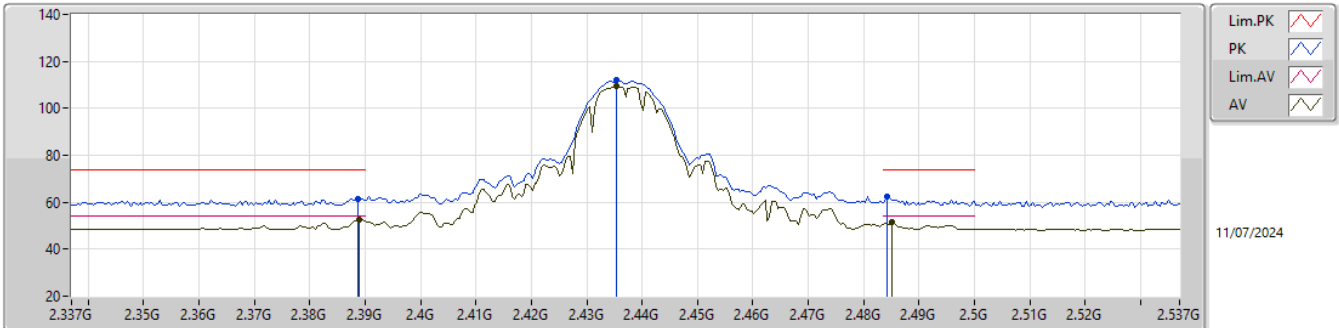


EUT_Z_2TX
Setting 21
01-I-P-5

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	2.389G	60.79	74.00	-13.21	28.44	3	Vertical	178	2.93	-	27.70	4.65	-			
AV	2.3898G	49.33	54.00	-4.67	16.97	3	Vertical	178	2.93	-	27.70	4.66	-			
PK	2.4342G	104.19	Inf	-Inf	71.99	3	Vertical	178	2.93	-	27.56	4.64	-			
AV	2.4354G	101.68	Inf	-Inf	69.49	3	Vertical	178	2.93	-	27.55	4.64	-			
PK	2.4946G	60.21	74.00	-13.79	28.12	3	Vertical	178	2.93	-	27.50	4.59	-			
AV	2.4842G	48.77	54.00	-5.23	16.67	3	Vertical	178	2.93	-	27.50	4.60	-			

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

2437MHz_TX

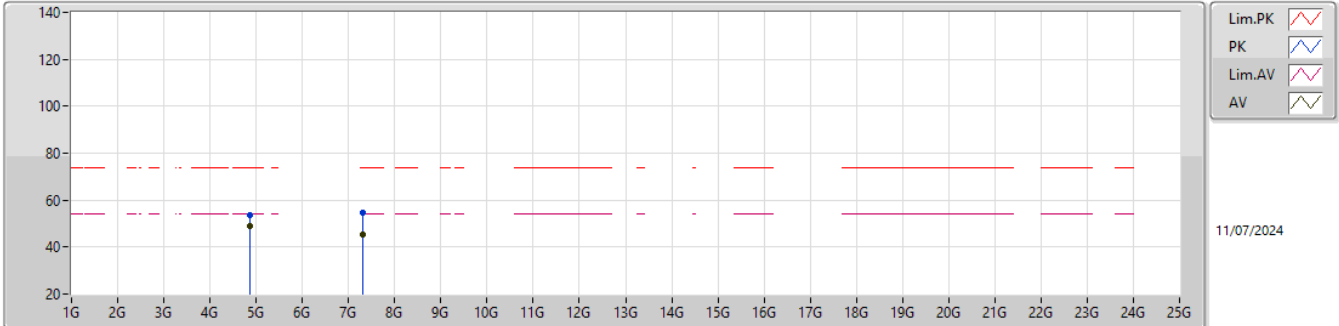


EUT_Z_2TX
Setting 21
01-I-P-5

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	2.3886G	61.63	74.00	-12.37	29.28	3	Horizontal	76	1.06	-	27.70	4.65	-			
AV	2.389G	52.67	54.00	-1.33	20.32	3	Horizontal	76	1.06	-	27.70	4.65	-			
PK	2.4354G	112.05	Inf	-Inf	79.86	3	Horizontal	76	1.06	-	27.55	4.64	-			
AV	2.4354G	109.27	Inf	-Inf	77.08	3	Horizontal	76	1.06	-	27.55	4.64	-			
PK	2.4842G	62.25	74.00	-11.75	30.15	3	Horizontal	76	1.06	-	27.50	4.60	-			
AV	2.485G	51.40	54.00	-2.60	19.30	3	Horizontal	76	1.06	-	27.50	4.60	-			

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

2437MHz_TX

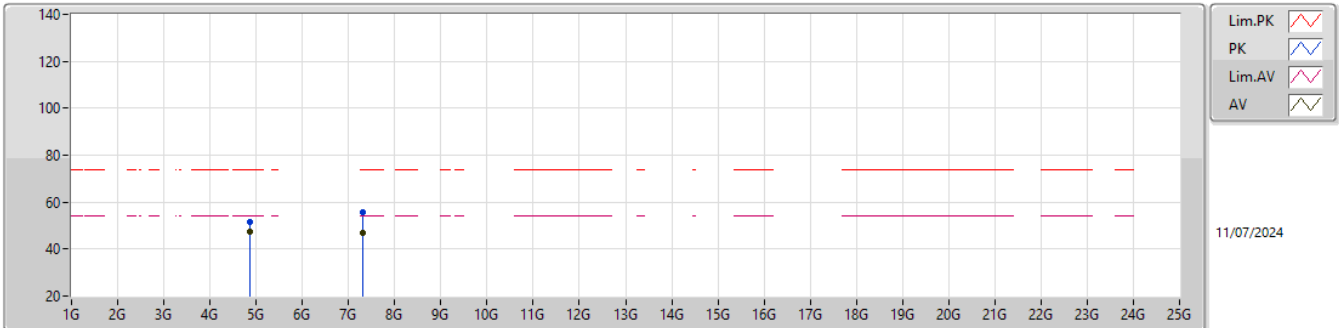


EUT_X_2TX
Setting 21
01-I-P-5

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	4.87408G	53.55	74.00	-20.45	47.84	3	Vertical	218	1.80	-	31.30	6.98	32.57			
AV	4.87396G	48.93	54.00	-5.07	43.22	3	Vertical	218	1.80	-	31.30	6.98	32.57			
PK	7.31172G	54.65	74.00	-19.35	42.41	3	Vertical	141	2.17	-	36.25	8.62	32.63			
AV	7.31008G	45.46	54.00	-8.54	33.21	3	Vertical	141	2.17	-	36.26	8.62	32.63			

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

2437MHz_TX

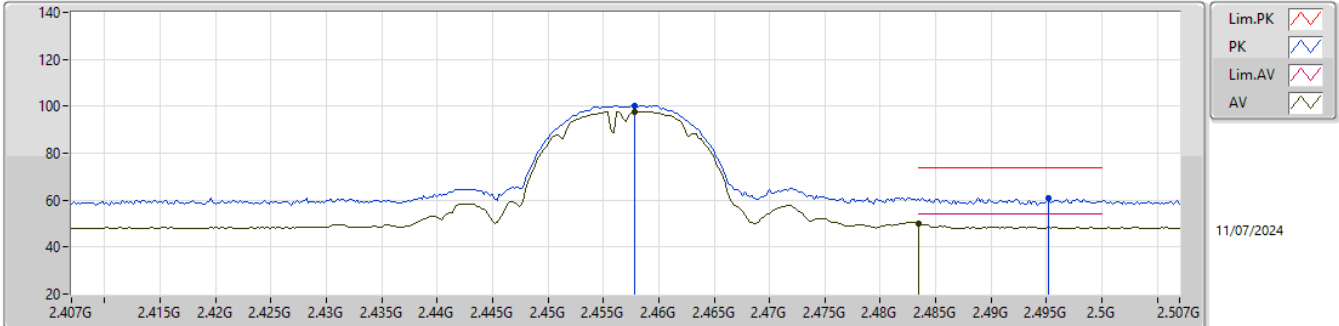


EUT_X_2TX
Setting 21
01-I-P-5

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	4.87392G	51.75	74.00	-22.25	46.04	3	Horizontal	218	1.80	-	31.30	6.98	32.57			
AV	4.87396G	47.49	54.00	-6.51	41.78	3	Horizontal	218	1.80	-	31.30	6.98	32.57			
PK	7.3126G	55.57	74.00	-18.43	43.32	3	Horizontal	21	2.67	-	36.25	8.63	32.63			
AV	7.31012G	47.09	54.00	-6.91	34.84	3	Horizontal	21	2.67	-	36.26	8.62	32.63			

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

2457MHz_TX

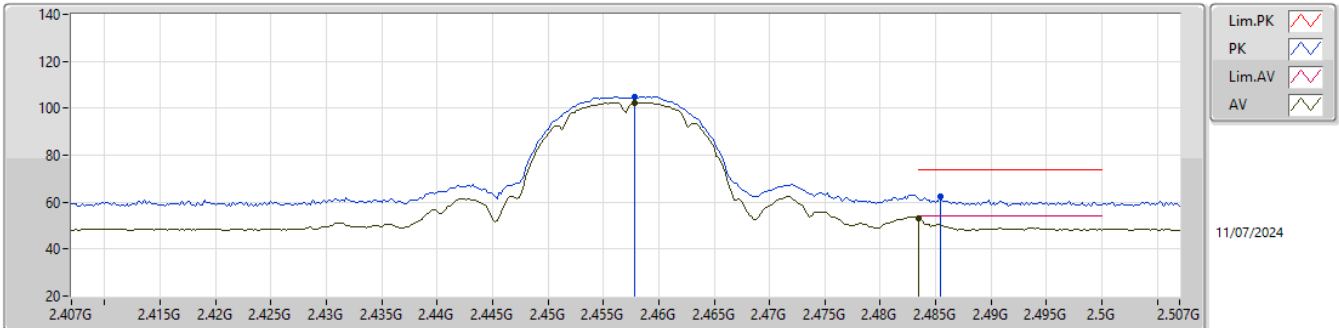


EUT_Z_2TX
Setting 15.5
01-I-P-5

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	2.4578G	100.35	Inf	-Inf	68.31	3	Vertical	292	2.32	-	27.42	4.62	-			
AV	2.4578G	97.82	Inf	-Inf	65.78	3	Vertical	292	2.32	-	27.42	4.62	-			
PK	2.4952G	60.78	74.00	-13.22	28.69	3	Vertical	292	2.32	-	27.50	4.59	-			
AV	2.4835G	50.06	54.00	-3.94	17.96	3	Vertical	292	2.32	-	27.50	4.60	-			

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

2457MHz_TX

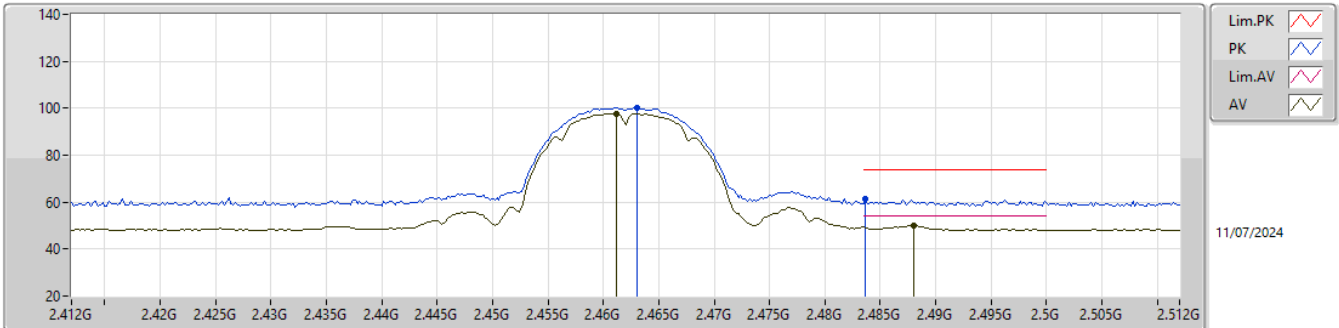


EUT_Z_2TX
Setting 15.5
01-I-P-5

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	2.4578G	104.90	Inf	-Inf	72.86	3	Horizontal	71	1.20	-	27.42	4.62	-				
AV	2.4578G	102.42	Inf	-Inf	70.38	3	Horizontal	71	1.20	-	27.42	4.62	-				
PK	2.4854G	62.19	74.00	-11.81	30.09	3	Horizontal	71	1.20	-	27.50	4.60	-				
AV	2.4835G	52.92	54.00	-1.08	20.82	3	Horizontal	71	1.20	-	27.50	4.60	-				

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

2462MHz_TX

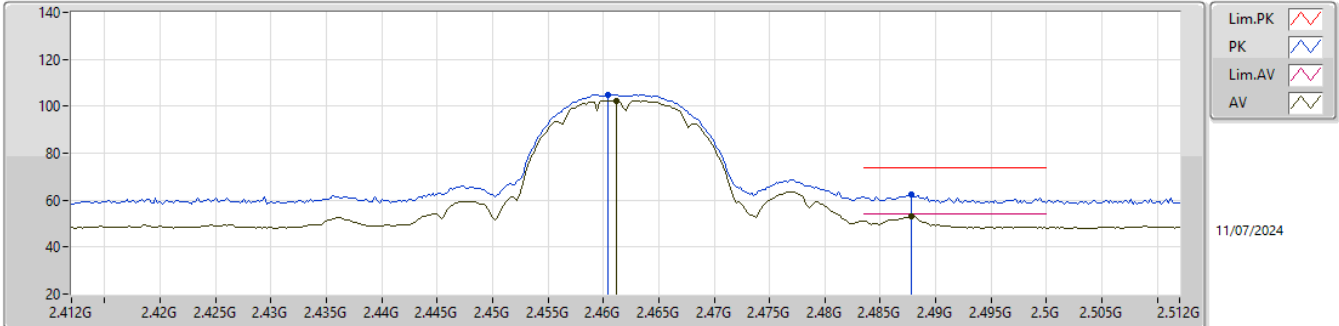


EUT_Z_2TX
Setting 14.5
01-I-P-5

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	2.463G	100.02	Inf	-Inf	68.00	3	Vertical	289	2.31	-	27.40	4.62	-				
AV	2.4612G	97.56	Inf	-Inf	65.54	3	Vertical	289	2.31	-	27.40	4.62	-				
PK	2.4836G	61.38	74.00	-12.62	29.28	3	Vertical	289	2.31	-	27.50	4.60	-				
AV	2.488G	50.05	54.00	-3.95	17.95	3	Vertical	289	2.31	-	27.50	4.60	-				

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

2462MHz_TX

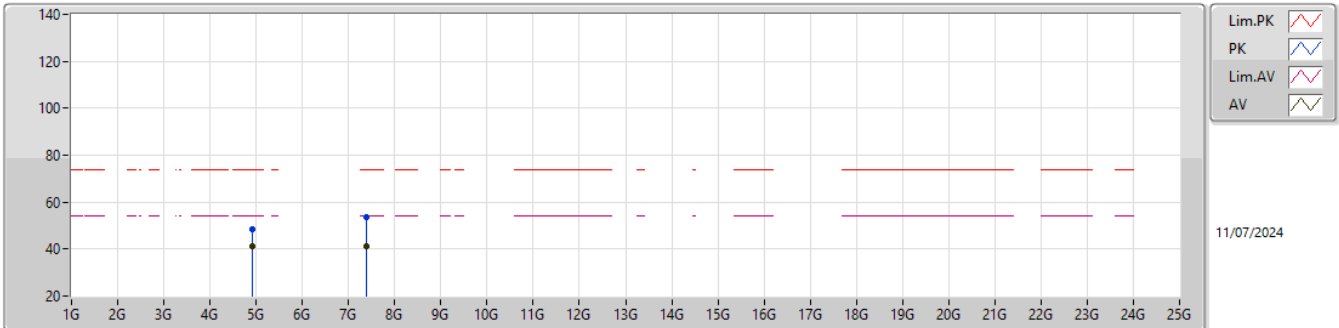


EUT_Z_2TX
Setting 14.5
01-I-P-5

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	2.4604G	104.96	Inf	-Inf	72.94	3	Horizontal	77	1.00	-	27.40	4.62	-				
AV	2.4612G	102.48	Inf	-Inf	70.46	3	Horizontal	77	1.00	-	27.40	4.62	-				
PK	2.4878G	62.41	74.00	-11.59	30.31	3	Horizontal	77	1.00	-	27.50	4.60	-				
AV	2.4878G	52.90	54.00	-1.10	20.80	3	Horizontal	77	1.00	-	27.50	4.60	-				

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

2462MHz_TX

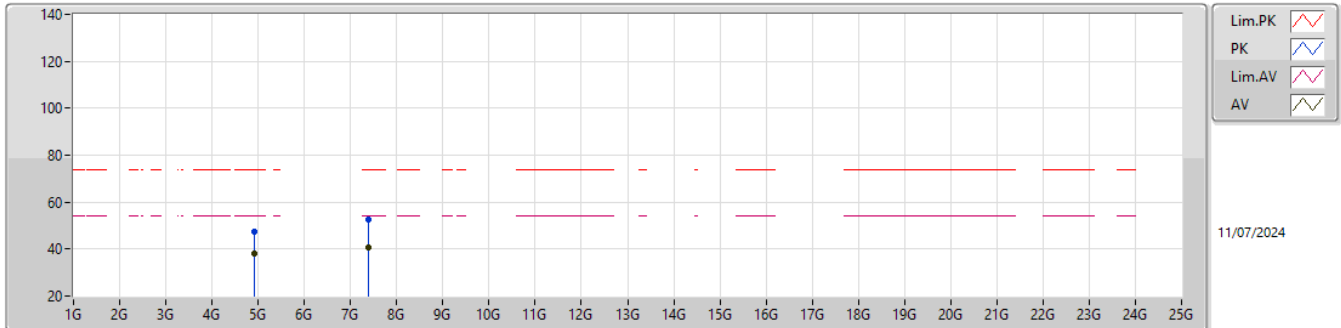


EUT_X_2TX
Setting 14.5
01-I-P-5

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	4.92392G	48.42	74.00	-25.58	42.57	3	Vertical	203	2.97	-	31.40	7.03	32.58			
AV	4.92392G	41.12	54.00	-12.88	35.27	3	Vertical	203	2.97	-	31.40	7.03	32.58			
PK	7.39092G	53.41	74.00	-20.59	41.19	3	Vertical	183	1.78	-	36.10	8.72	32.60			
AV	7.38776G	41.04	54.00	-12.96	28.82	3	Vertical	183	1.78	-	36.10	8.72	32.60			

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

2462MHz_TX

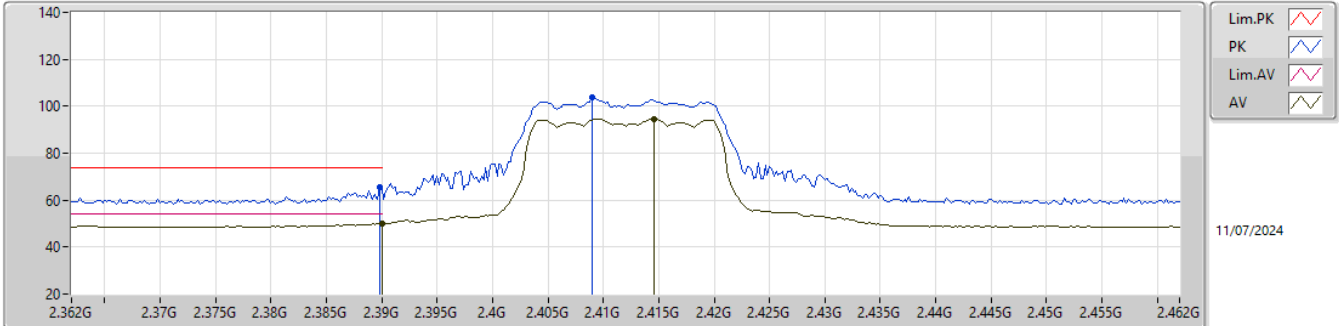


EUT_X_2TX
Setting 14.5
01-I-P-5

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	4.91676G	47.52	74.00	-26.48	41.70	3	Horizontal	220	1.80	-	31.37	7.03	32.58				
AV	4.92388G	38.06	54.00	-15.94	32.21	3	Horizontal	220	1.80	-	31.40	7.03	32.58				
PK	7.37788G	52.79	74.00	-21.21	40.60	3	Horizontal	276	1.90	-	36.10	8.70	32.61				
AV	7.38776G	40.70	54.00	-13.30	28.48	3	Horizontal	276	1.90	-	36.10	8.72	32.60				

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

2412MHz_TX

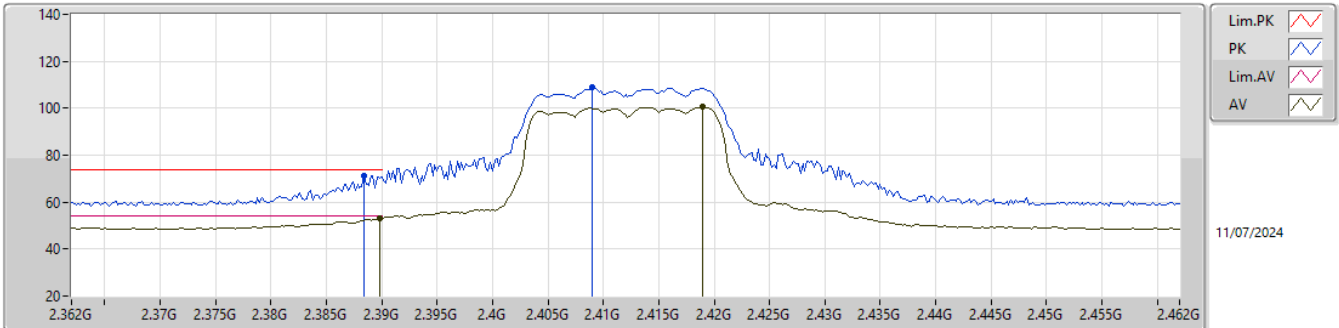


EUT_Z_2TX
Setting 13.5
01-I-P-5

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	2.3898G	65.51	74.00	-8.49	33.15	3	Vertical	291	2.41	-	27.70	4.66	-			
AV	2.39G	50.06	54.00	-3.94	17.70	3	Vertical	291	2.41	-	27.70	4.66	-			
PK	2.409G	103.65	Inf	-Inf	71.38	3	Vertical	291	2.41	-	27.61	4.66	-			
AV	2.4146G	94.45	Inf	-Inf	62.14	3	Vertical	291	2.41	-	27.65	4.66	-			

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

2412MHz_TX

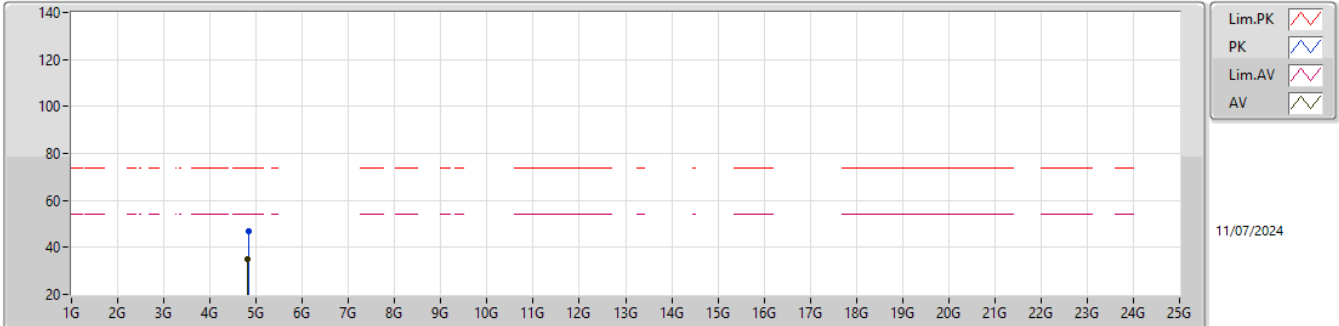


EUT_Z_2TX
Setting 13.5
01-I-P-5

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	2.3884G	71.15	74.00	-2.85	38.80	3	Horizontal	71	1.80	-	27.70	4.65	-			
AV	2.3898G	52.85	54.00	-1.15	20.49	3	Horizontal	71	1.80	-	27.70	4.66	-			
PK	2.409G	109.13	Inf	-Inf	76.86	3	Horizontal	71	1.80	-	27.61	4.66	-			
AV	2.419G	100.46	Inf	-Inf	68.12	3	Horizontal	71	1.80	-	27.69	4.65	-			

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

2412MHz_TX

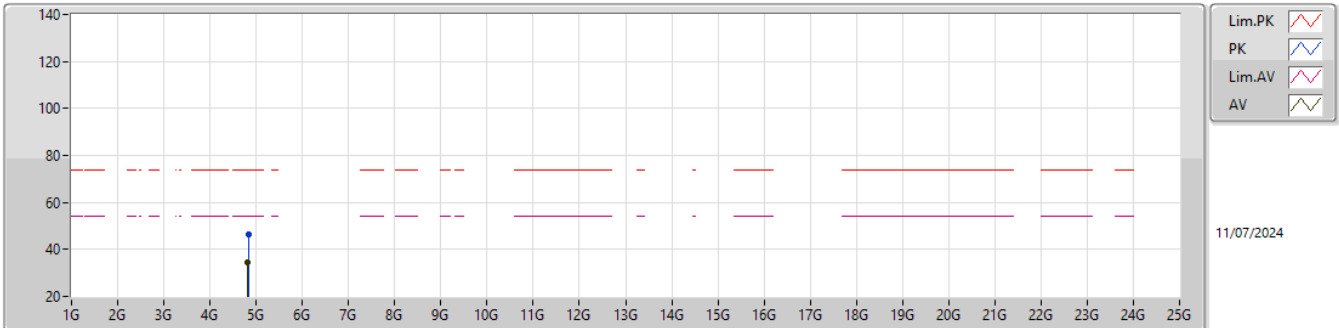


EUT_X_2TX
Setting 13.5
01-I-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.83388G	46.73	74.00	-27.27	41.06	3	Vertical	220	2.94	-	31.30	6.94	32.57			
AV	4.8232G	34.78	54.00	-19.22	29.12	3	Vertical	220	2.94	-	31.30	6.93	32.57			

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

2412MHz_TX

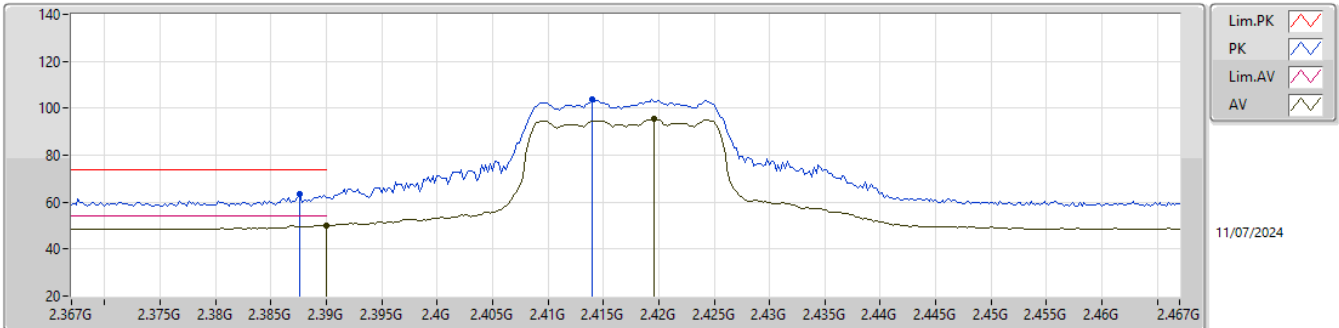


EUT_X_2TX
Setting 13.5
01-I-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.83332G	46.50	74.00	-27.50	40.83	3	Horizontal	12	2.06	-	31.30	6.94	32.57			
AV	4.82404G	34.69	54.00	-19.31	29.03	3	Horizontal	12	2.06	-	31.30	6.93	32.57			

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

2417MHz_TX

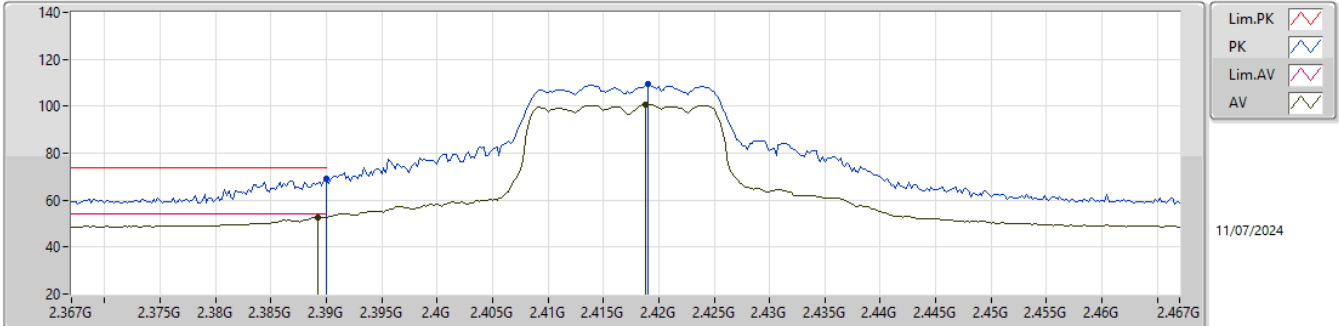


EUT_Z_2TX
Setting 15
01-I-P-5

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	2.3876G	63.40	74.00	-10.60	31.05	3	Vertical	292	2.11	-	27.70	4.65	-			
AV	2.39G	50.06	54.00	-3.94	17.70	3	Vertical	292	2.11	-	27.70	4.66	-			
PK	2.414G	103.83	Inf	-Inf	71.53	3	Vertical	292	2.11	-	27.64	4.66	-			
AV	2.4196G	95.26	Inf	-Inf	62.91	3	Vertical	292	2.11	-	27.70	4.65	-			

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

2417MHz_TX

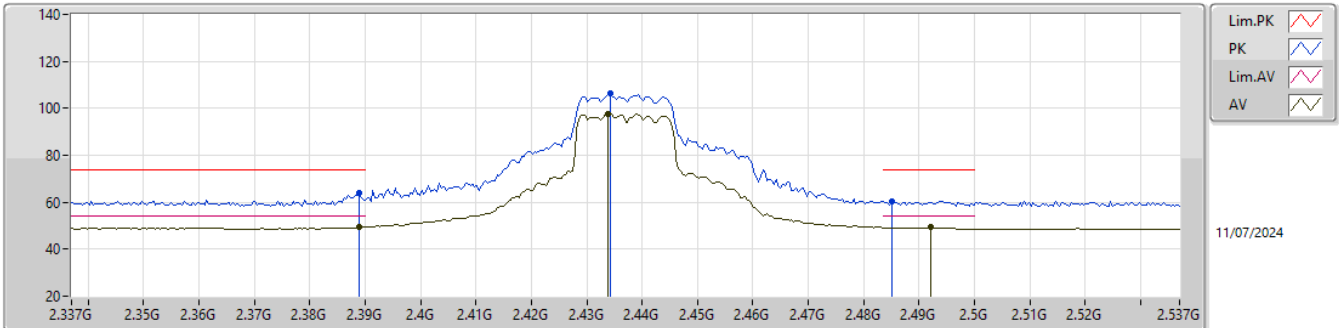


EUT_Z_2TX
Setting 15
01-I-P-5

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	2.39G	69.29	74.00	-4.71	36.93	3	Horizontal	68	1.00	-	27.70	4.66	-			
AV	2.3892G	52.84	54.00	-1.16	20.49	3	Horizontal	68	1.00	-	27.70	4.65	-			
PK	2.419G	109.56	Inf	-Inf	77.22	3	Horizontal	68	1.00	-	27.69	4.65	-			
AV	2.4188G	100.87	Inf	-Inf	68.53	3	Horizontal	68	1.00	-	27.69	4.65	-			

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

2437MHz_TX

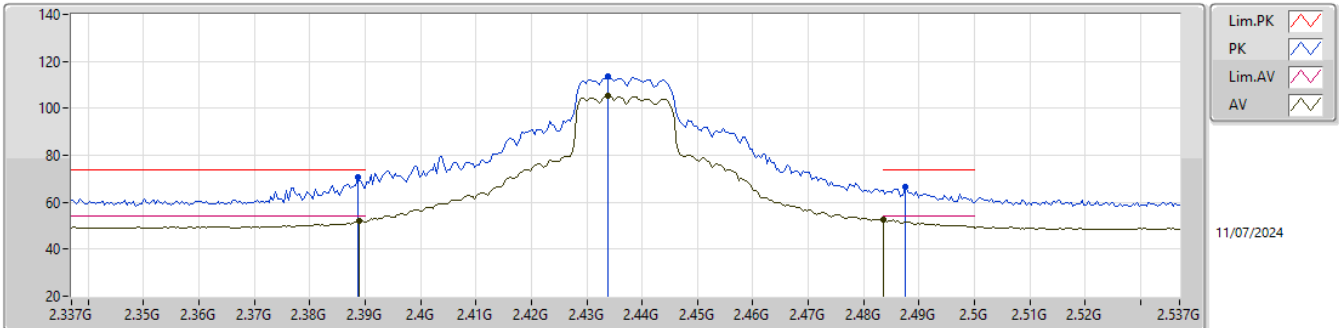


EUT_Z_2TX
Setting 18
01-I-P-5

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	2.389G	64.13	74.00	-9.87	31.78	3	Vertical	19	2.75	-	27.70	4.65	-			
AV	2.389G	49.57	54.00	-4.43	17.22	3	Vertical	19	2.75	-	27.70	4.65	-			
PK	2.4342G	106.33	Inf	-Inf	74.13	3	Vertical	19	2.75	-	27.56	4.64	-			
AV	2.4338G	97.70	Inf	-Inf	65.50	3	Vertical	19	2.75	-	27.56	4.64	-			
PK	2.485G	60.56	74.00	-13.44	28.46	3	Vertical	19	2.75	-	27.50	4.60	-			
AV	2.4922G	49.26	54.00	-4.74	17.17	3	Vertical	19	2.75	-	27.50	4.59	-			

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

2437MHz_TX

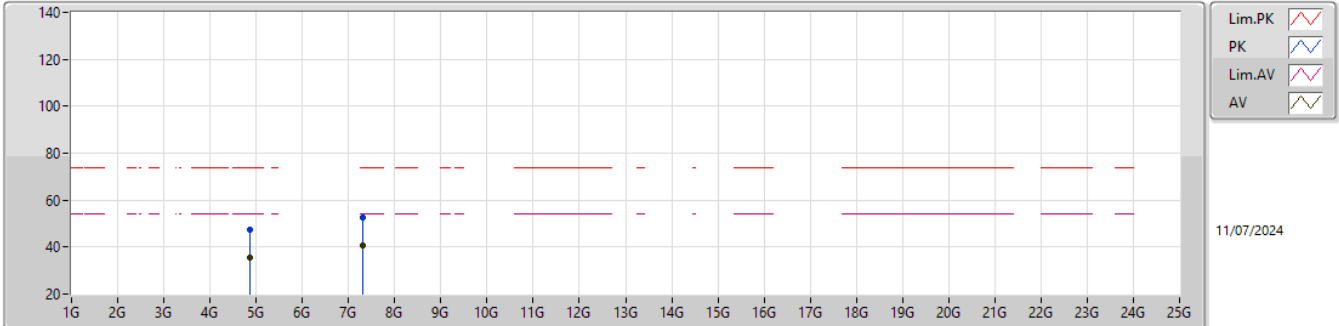


EUT_Z_2TX
Setting 18
01-I-P-5

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	2.3886G	70.80	74.00	-3.20	38.45	3	Horizontal	92	1.00	-	27.70	4.65	-				
AV	2.389G	52.13	54.00	-1.87	19.78	3	Horizontal	92	1.00	-	27.70	4.65	-				
PK	2.4338G	113.76	Inf	-Inf	81.56	3	Horizontal	92	1.00	-	27.56	4.64	-				
AV	2.4338G	105.13	Inf	-Inf	72.93	3	Horizontal	92	1.00	-	27.56	4.64	-				
PK	2.4874G	66.31	74.00	-7.69	34.21	3	Horizontal	92	1.00	-	27.50	4.60	-				
AV	2.4835G	52.74	54.00	-1.26	20.64	3	Horizontal	92	1.00	-	27.50	4.60	-				

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

2437MHz_TX

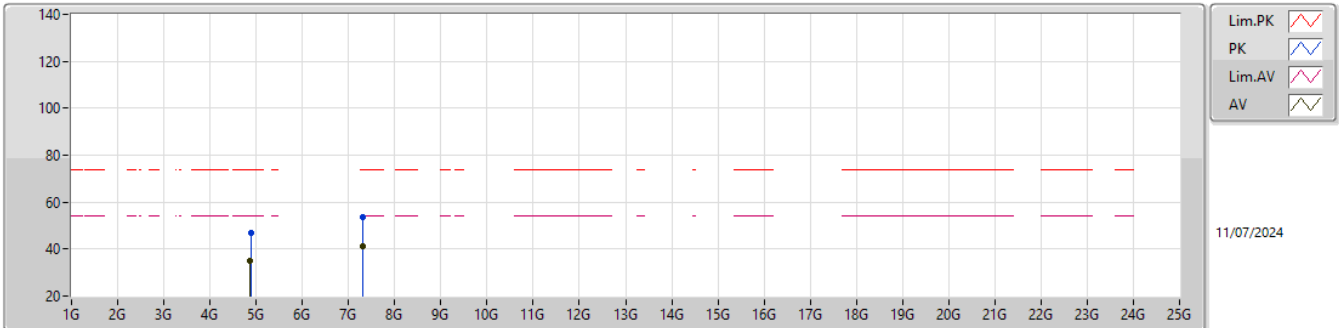


EUT_X_2TX
Setting 18
01-I-P-5

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	4.8748G	47.62	74.00	-26.38	41.91	3	Vertical	220	1.80	-	31.30	6.98	32.57			
AV	4.87396G	35.75	54.00	-18.25	30.04	3	Vertical	220	1.80	-	31.30	6.98	32.57			
PK	7.30428G	52.59	74.00	-21.41	40.32	3	Vertical	157	1.88	-	36.28	8.62	32.63			
AV	7.3094G	40.81	54.00	-13.19	28.56	3	Vertical	157	1.88	-	36.26	8.62	32.63			

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

2437MHz_TX

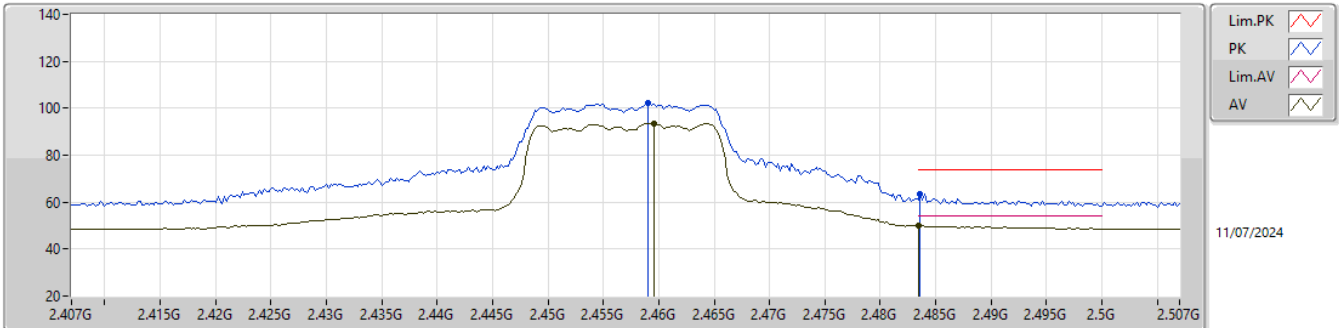


EUT_X_2TX
Setting 18
01-I-P-5

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	4.87868G	46.64	74.00	-27.36	40.93	3	Horizontal	317	2.34	-	31.30	6.99	32.58			
AV	4.86964G	35.16	54.00	-18.84	29.45	3	Horizontal	317	2.34	-	31.30	6.98	32.57			
PK	7.31388G	53.73	74.00	-20.27	41.49	3	Horizontal	350	1.09	-	36.24	8.63	32.63			
AV	7.30692G	41.01	54.00	-12.99	28.75	3	Horizontal	350	1.09	-	36.27	8.62	32.63			

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

2457MHz_TX

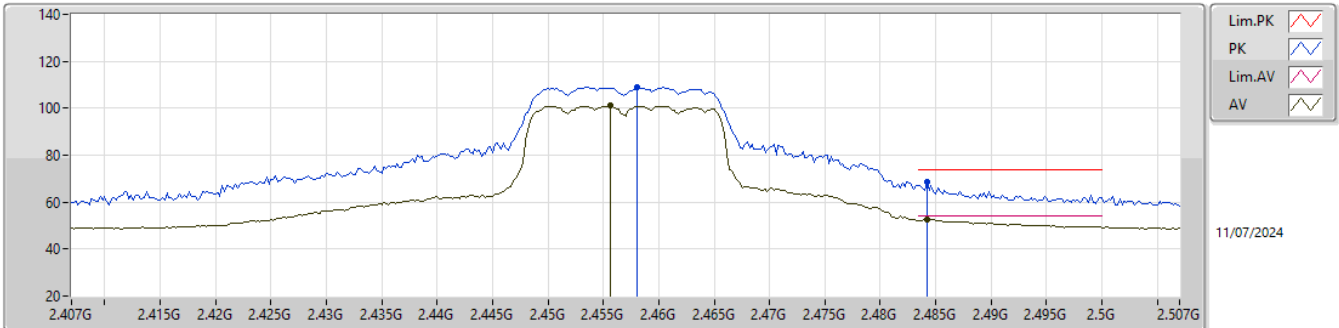


EUT_Z_2TX
Setting 14
01-I-P-5

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	2.459G	102.39	Inf	-Inf	70.36	3	Vertical	291	2.33	-	27.41	4.62	-			
AV	2.4596G	93.63	Inf	-Inf	61.61	3	Vertical	291	2.33	-	27.40	4.62	-			
PK	2.4836G	63.30	74.00	-10.70	31.20	3	Vertical	291	2.33	-	27.50	4.60	-			
AV	2.4835G	49.82	54.00	-4.18	17.72	3	Vertical	291	2.33	-	27.50	4.60	-			

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

2457MHz_TX

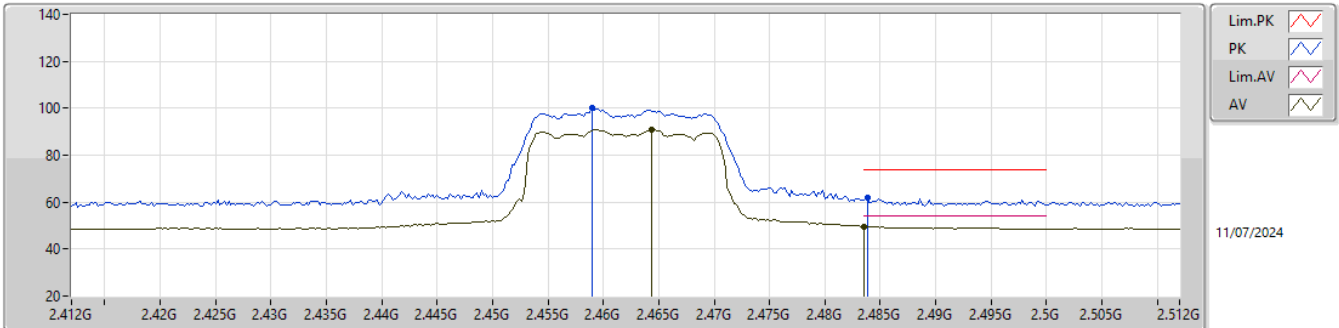


EUT_Z_2TX
Setting 14
01-I-P-5

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	2.458G	108.95	Inf	-Inf	76.91	3	Horizontal	105	1.01	-	27.42	4.62	-			
AV	2.4556G	100.97	Inf	-Inf	68.91	3	Horizontal	105	1.01	-	27.44	4.62	-			
PK	2.4842G	68.56	74.00	-5.44	36.46	3	Horizontal	105	1.01	-	27.50	4.60	-			
AV	2.4842G	52.74	54.00	-1.26	20.64	3	Horizontal	105	1.01	-	27.50	4.60	-			

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

2462MHz_TX

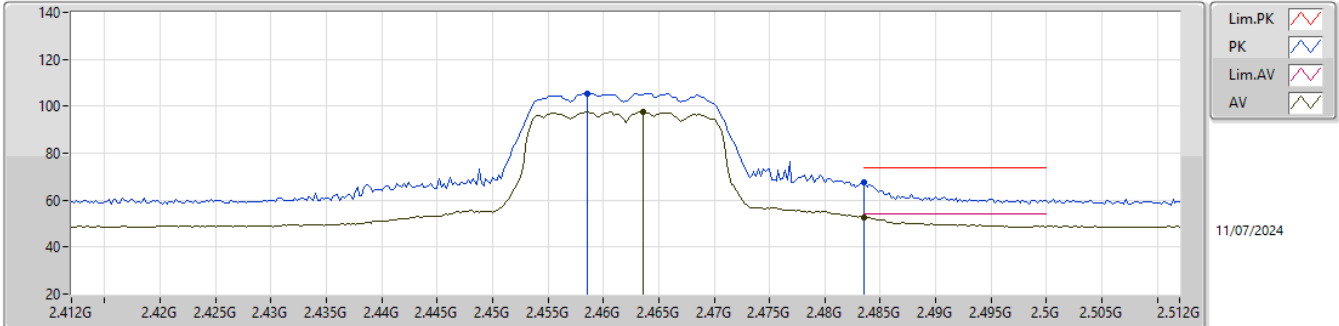


EUT_Z_2TX
Setting 10
01-I-P-5

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	2.459G	99.98	Inf	-Inf	67.95	3	Vertical	290	2.32	-	27.41	4.62	-			
AV	2.464G	90.67	Inf	-Inf	58.65	3	Vertical	290	2.32	-	27.40	4.62	-			
PK	2.4838G	61.76	74.00	-12.24	29.66	3	Vertical	290	2.32	-	27.50	4.60	-			
AV	2.4835G	49.57	54.00	-4.43	17.47	3	Vertical	290	2.32	-	27.50	4.60	-			

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

2462MHz_TX

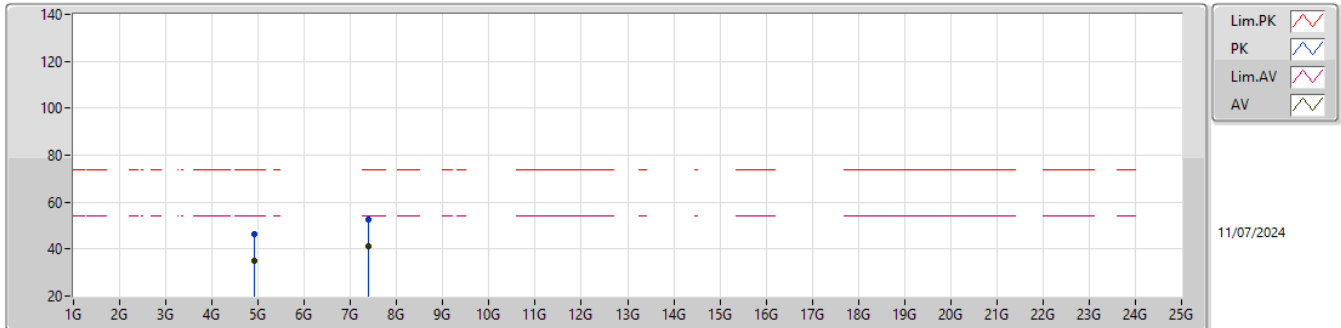


EUT_Z_2TX
Setting 10
01-I-P-5

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	2.4586G	105.59	Inf	-Inf	73.56	3	Horizontal	93	1.00	-	27.41	4.62	-			
AV	2.4636G	97.41	Inf	-Inf	65.39	3	Horizontal	93	1.00	-	27.40	4.62	-			
PK	2.4835G	67.69	74.00	-6.31	35.59	3	Horizontal	93	1.00	-	27.50	4.60	-			
AV	2.4835G	52.56	54.00	-1.44	20.46	3	Horizontal	93	1.00	-	27.50	4.60	-			

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

2462MHz_TX

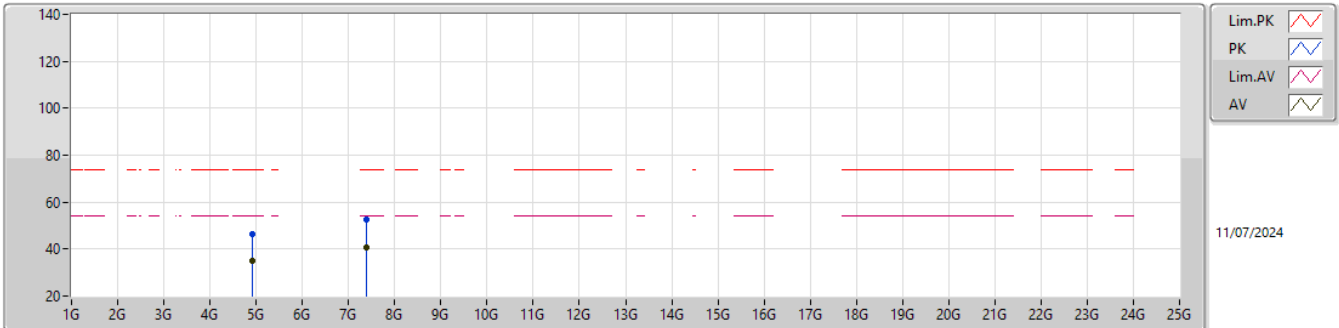


EUT_X_2TX
Setting 10
01-I-P-5

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	4.92436G	46.50	74.00	-27.50	40.65	3	Vertical	61	1.76	-	31.40	7.03	32.58			
AV	4.92324G	34.80	54.00	-19.20	28.96	3	Vertical	61	1.76	-	31.39	7.03	32.58			
PK	7.38924G	52.37	74.00	-21.63	40.15	3	Vertical	312	1.47	-	36.10	8.72	32.60			
AV	7.39544G	41.06	54.00	-12.94	28.84	3	Vertical	312	1.47	-	36.10	8.72	32.60			

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

2462MHz_TX

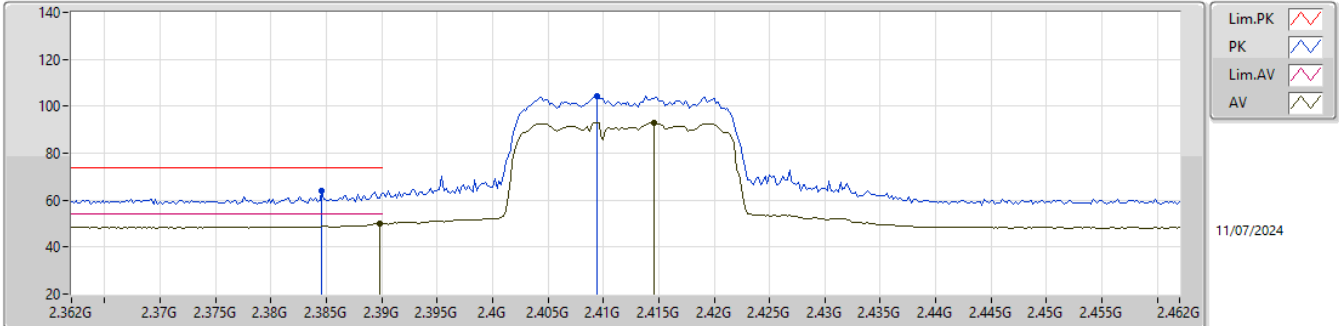


EUT_X_2TX
Setting 10
01-I-P-5

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	4.92836G	46.20	74.00	-27.80	40.33	3	Horizontal	45	1.28	-	31.41	7.04	32.58			
AV	4.9284G	34.98	54.00	-19.02	29.14	3	Horizontal	45	1.28	-	31.39	7.03	32.58			
PK	7.39124G	52.68	74.00	-21.32	40.46	3	Horizontal	137	2.71	-	36.10	8.72	32.60			
AV	7.38656G	40.89	54.00	-13.11	28.68	3	Horizontal	137	2.71	-	36.10	8.71	32.60			

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

2412MHz_TX

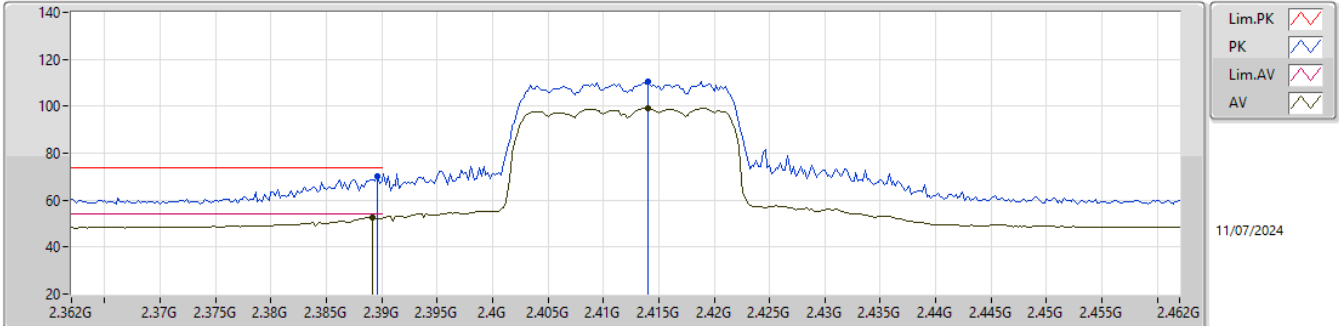


EUT_Z_2TX
Setting 12.5
01-I-P-5

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	2.3846G	63.83	74.00	-10.17	31.48	3	Vertical	294	2.43	-	27.70	4.65	-			
AV	2.3898G	50.06	54.00	-3.94	17.70	3	Vertical	294	2.43	-	27.70	4.66	-			
PK	2.4094G	104.19	Inf	-Inf	71.92	3	Vertical	294	2.43	-	27.61	4.66	-			
AV	2.4146G	92.80	Inf	-Inf	60.49	3	Vertical	294	2.43	-	27.65	4.66	-			

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

2412MHz_TX

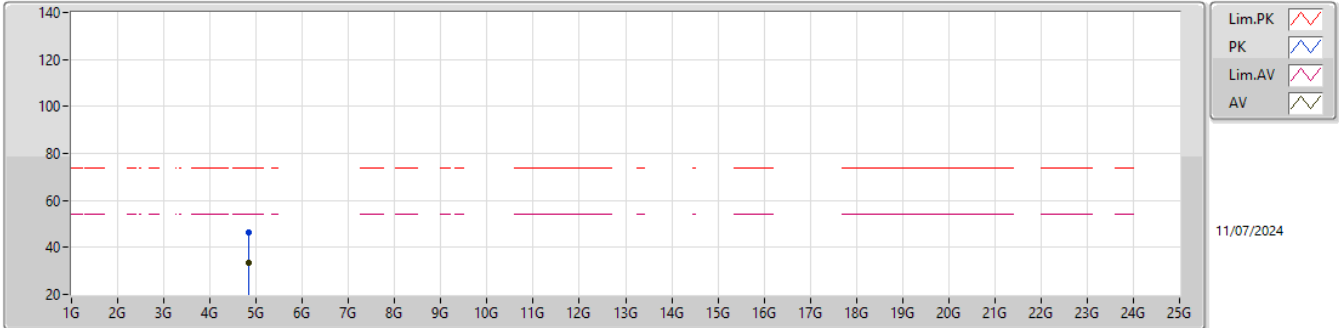


EUT_Z_2TX
Setting 12.5
01-I-P-5

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	2.3896G	70.02	74.00	-3.98	37.67	3	Horizontal	72	1.79	-	27.70	4.65	-			
AV	2.3892G	52.67	54.00	-1.33	20.32	3	Horizontal	72	1.79	-	27.70	4.65	-			
PK	2.414G	110.60	Inf	-Inf	78.30	3	Horizontal	72	1.79	-	27.64	4.66	-			
AV	2.414G	99.06	Inf	-Inf	66.76	3	Horizontal	72	1.79	-	27.64	4.66	-			

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

2412MHz_TX

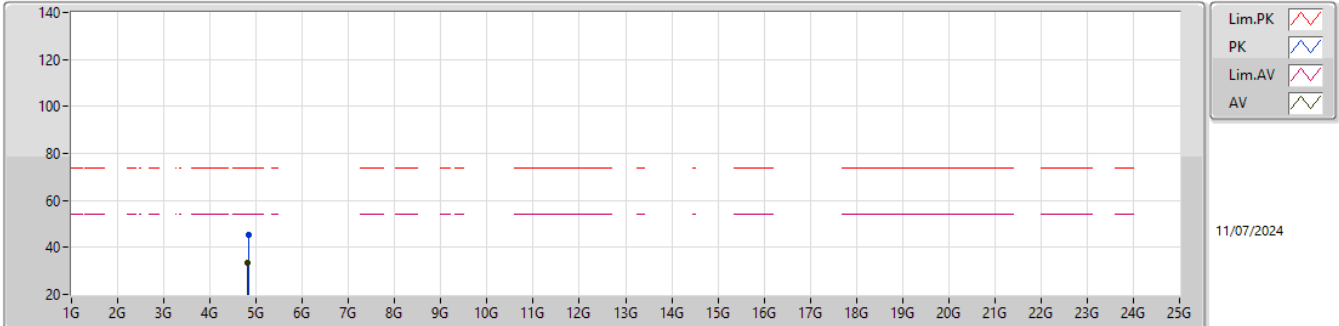


EUT_X_2TX
Setting 12.5
01-I-P-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.82484G	46.60	74.00	-27.40	40.94	3	Vertical	6	1.45	-	31.30	6.93	32.57			
AV	4.83248G	33.46	54.00	-20.54	27.79	3	Vertical	6	1.45	-	31.30	6.94	32.57			

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

2412MHz_TX

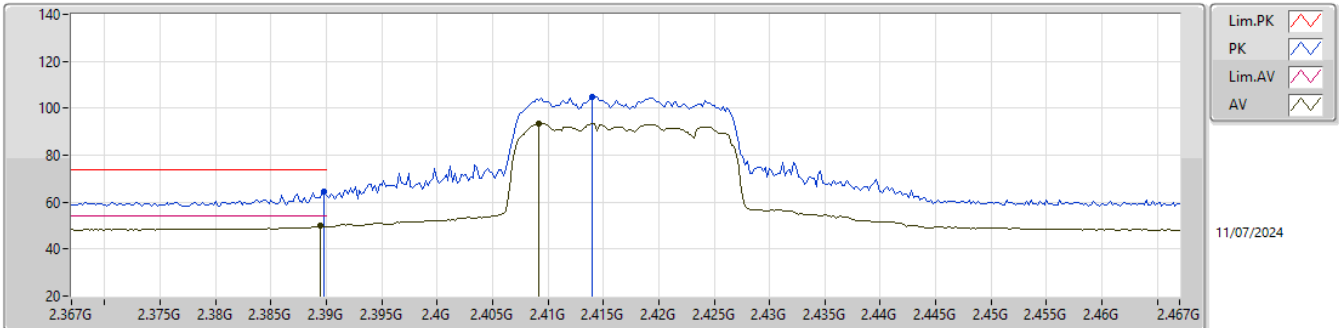


EUT_X_2TX
Setting 12.5
01-I-P-5

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	4.83204G	45.57	74.00	-28.43	39.90	3	Horizontal	315	1.44	-	31.30	6.94	32.57			
AV	4.82304G	33.58	54.00	-20.42	27.92	3	Horizontal	315	1.44	-	31.30	6.93	32.57			

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

2417MHz_TX

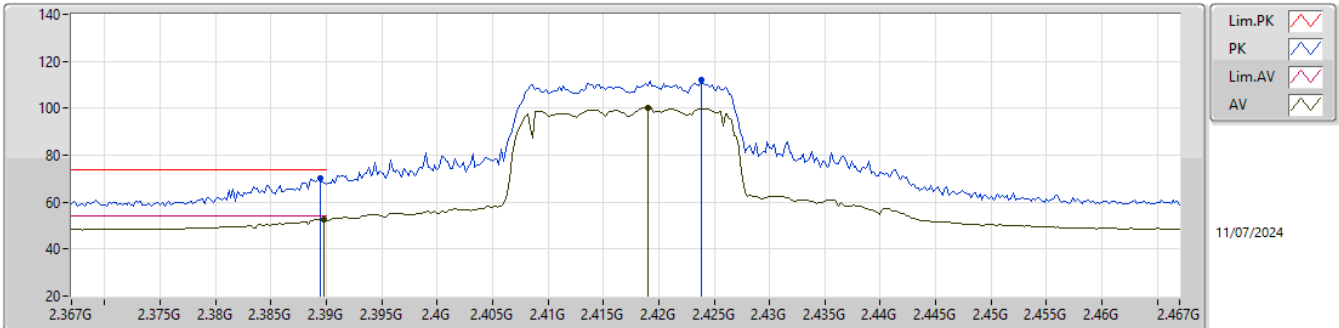


EUT_Z_2TX
Setting 14
01-I-P-5

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	2.3898G	64.42	74.00	-9.58	32.06	3	Vertical	290	2.20	-	27.70	4.66	-			
AV	2.3894G	49.81	54.00	-4.19	17.46	3	Vertical	290	2.20	-	27.70	4.65	-			
PK	2.414G	105.07	Inf	-Inf	72.77	3	Vertical	290	2.20	-	27.64	4.66	-			
AV	2.4092G	93.52	Inf	-Inf	61.25	3	Vertical	290	2.20	-	27.61	4.66	-			

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

2417MHz_TX

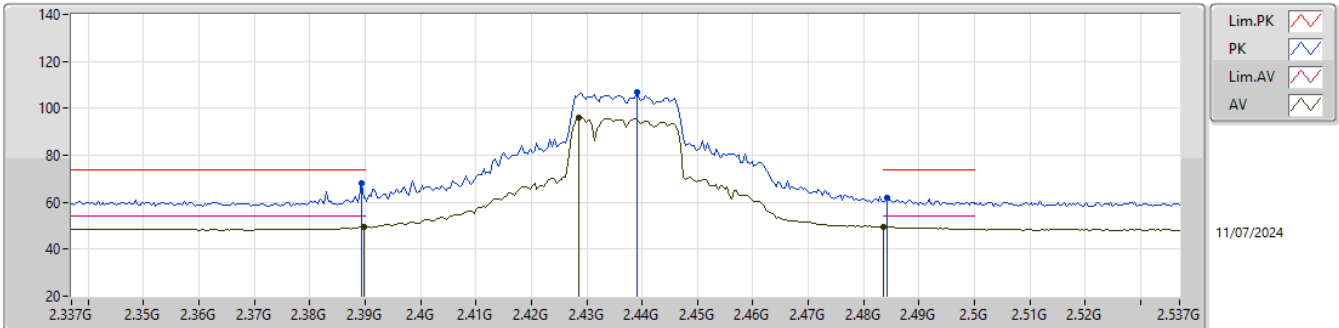


EUT_Z_2TX
Setting 14
01-I-P-5

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	2.3894G	70.15	74.00	-3.85	37.80	3	Horizontal	67	1.17	-	27.70	4.65	-			
AV	2.3898G	52.50	54.00	-1.50	20.14	3	Horizontal	67	1.17	-	27.70	4.66	-			
PK	2.4238G	112.24	Inf	-Inf	79.93	3	Horizontal	67	1.17	-	27.66	4.65	-			
AV	2.419G	100.22	Inf	-Inf	67.88	3	Horizontal	67	1.17	-	27.69	4.65	-			

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

2437MHz_TX

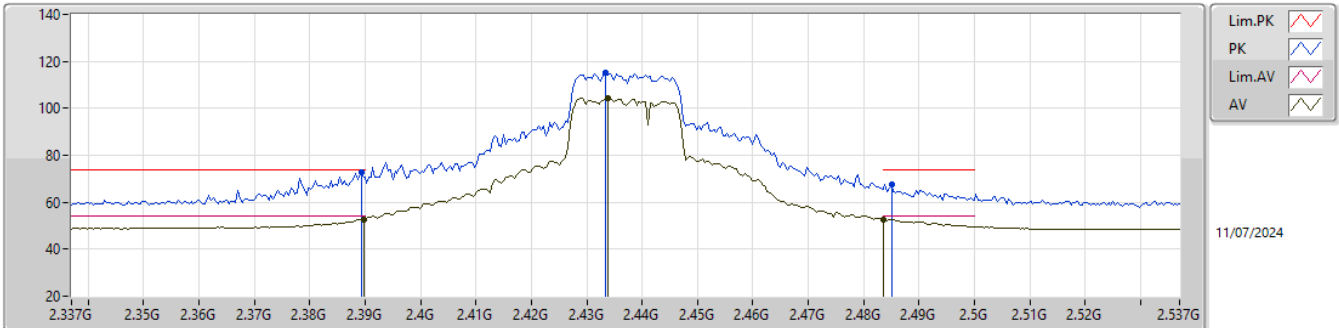


EUT_Z_2TX
Setting 17.5
01-I-P-5

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	2.3894G	68.05	74.00	-5.95	35.70	3	Vertical	14	2.40	-	27.70	4.65	-			
AV	2.3898G	49.33	54.00	-4.67	16.97	3	Vertical	14	2.40	-	27.70	4.66	-			
PK	2.439G	107.04	Inf	-Inf	74.89	3	Vertical	14	2.40	-	27.51	4.64	-			
AV	2.4286G	95.82	Inf	-Inf	63.56	3	Vertical	14	2.40	-	27.61	4.65	-			
PK	2.4842G	61.64	74.00	-12.36	29.54	3	Vertical	14	2.40	-	27.50	4.60	-			
AV	2.4835G	49.31	54.00	-4.69	17.21	3	Vertical	14	2.40	-	27.50	4.60	-			

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

2437MHz_TX

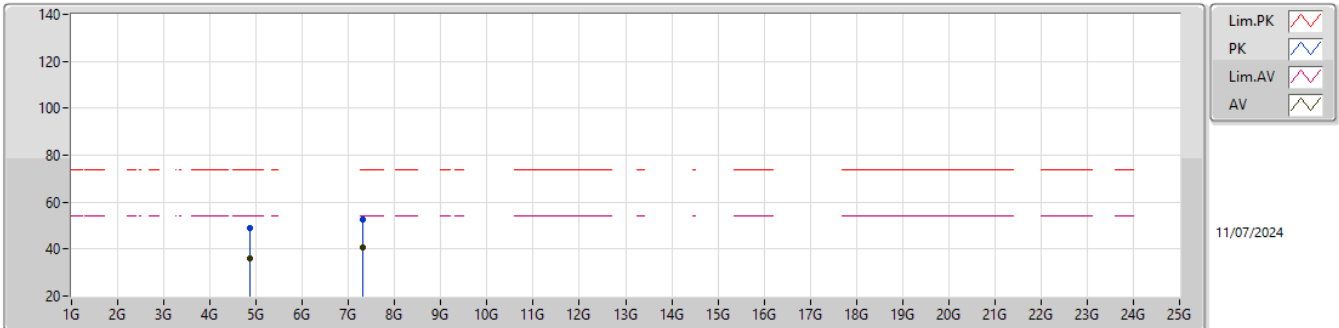


EUT_Z_2TX
Setting 17.5
01-I-P-5

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	2.3894G	72.67	74.00	-1.33	40.32	3	Horizontal	94	1.01	-	27.70	4.65	-			
AV	2.3898G	52.68	54.00	-1.32	20.32	3	Horizontal	94	1.01	-	27.70	4.66	-			
PK	2.4334G	115.35	Inf	-Inf	83.14	3	Horizontal	94	1.01	-	27.57	4.64	-			
AV	2.4338G	104.34	Inf	-Inf	72.14	3	Horizontal	94	1.01	-	27.56	4.64	-			
PK	2.485G	67.78	74.00	-6.22	35.68	3	Horizontal	94	1.01	-	27.50	4.60	-			
AV	2.4835G	52.74	54.00	-1.26	20.64	3	Horizontal	94	1.01	-	27.50	4.60	-			

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

2437MHz_TX

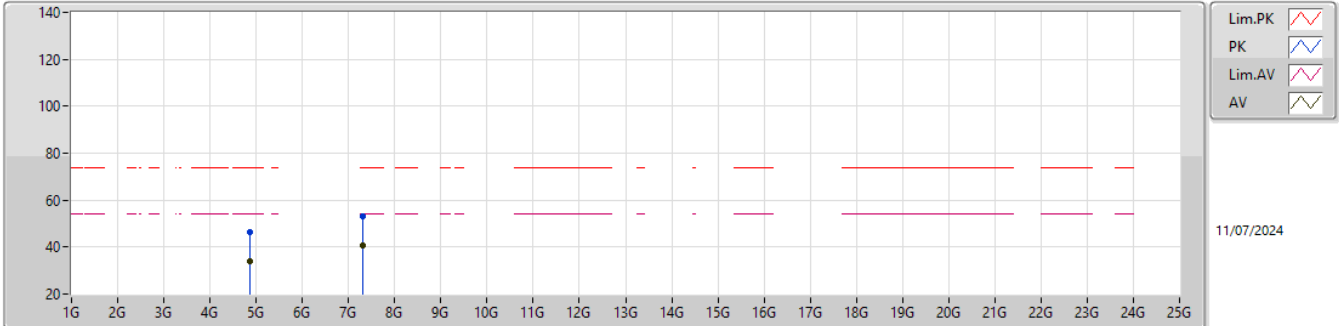


EUT_X_2TX
Setting 17.5
01-I-P-5

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	4.86988G	48.75	74.00	-25.25	43.04	3	Vertical	201	2.98	-	31.30	6.98	32.57			
AV	4.87368G	36.28	54.00	-17.72	30.57	3	Vertical	201	2.98	-	31.30	6.98	32.57			
PK	7.30696G	52.76	74.00	-21.24	40.50	3	Vertical	335	1.21	-	36.27	8.62	32.63			
AV	7.30888G	40.60	54.00	-13.40	28.35	3	Vertical	335	1.21	-	36.26	8.62	32.63			

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

2437MHz_TX

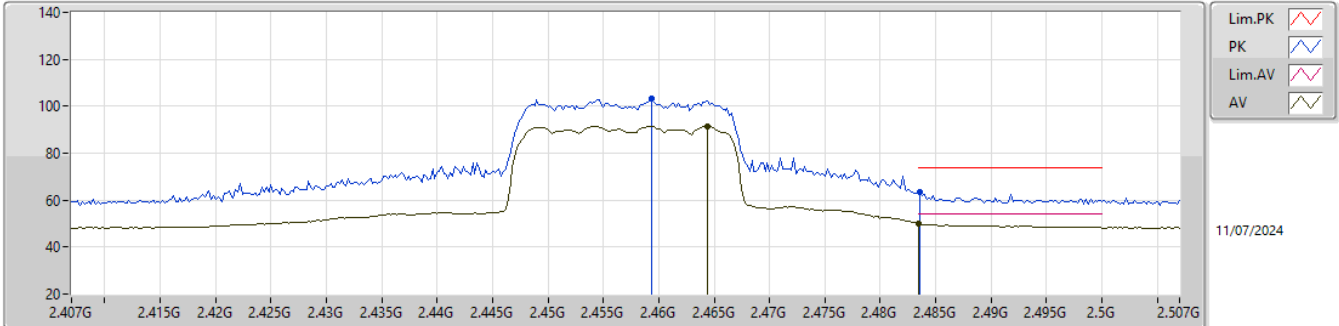


EUT_X_2TX
Setting 17.5
01-I-P-5

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	4.87196G	46.21	74.00	-27.79	40.50	3	Horizontal	340	2.81	-	31.30	6.98	32.57			
AV	4.87408G	34.20	54.00	-19.80	28.49	3	Horizontal	340	2.81	-	31.30	6.98	32.57			
PK	7.31556G	52.99	74.00	-21.01	40.75	3	Horizontal	104	1.03	-	36.24	8.63	32.63			
AV	7.3086G	40.75	54.00	-13.25	28.49	3	Horizontal	104	1.03	-	36.27	8.62	32.63			

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

2457MHz_TX

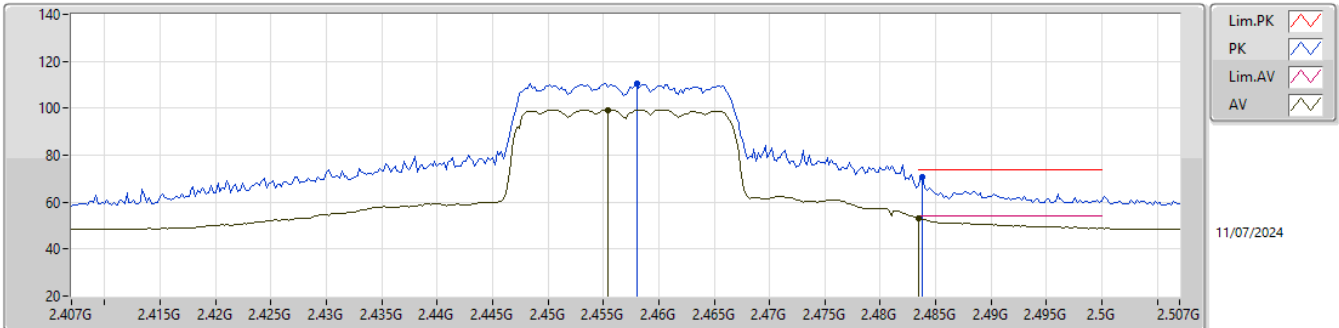


EUT_Z_2TX
Setting 12.5
01-I-P-5

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	2.4594G	103.47	Inf	-Inf	71.44	3	Vertical	289	2.35	-	27.41	4.62	-			
AV	2.4644G	91.32	Inf	-Inf	59.30	3	Vertical	289	2.35	-	27.40	4.62	-			
PK	2.4836G	63.66	74.00	-10.34	31.56	3	Vertical	289	2.35	-	27.50	4.60	-			
AV	2.4835G	50.06	54.00	-3.94	17.96	3	Vertical	289	2.35	-	27.50	4.60	-			

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

2457MHz_TX

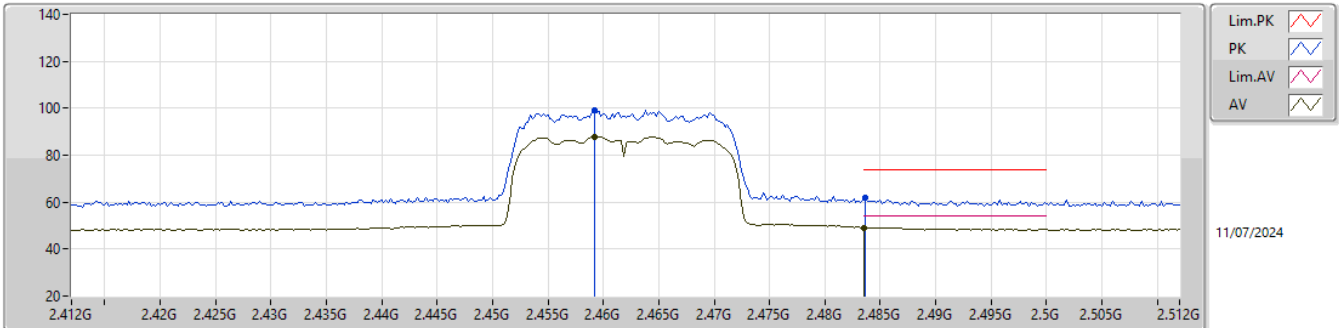


EUT_Z_2TX
Setting 12.5
01-I-P-5

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	2.458G	110.45	Inf	-Inf	78.41	3	Horizontal	105	1.00	-	27.42	4.62	-			
AV	2.4554G	99.38	Inf	-Inf	67.31	3	Horizontal	105	1.00	-	27.45	4.62	-			
PK	2.4838G	70.72	74.00	-3.28	38.62	3	Horizontal	105	1.00	-	27.50	4.60	-			
AV	2.4835G	52.92	54.00	-1.08	20.82	3	Horizontal	105	1.00	-	27.50	4.60	-			

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

2462MHz_TX

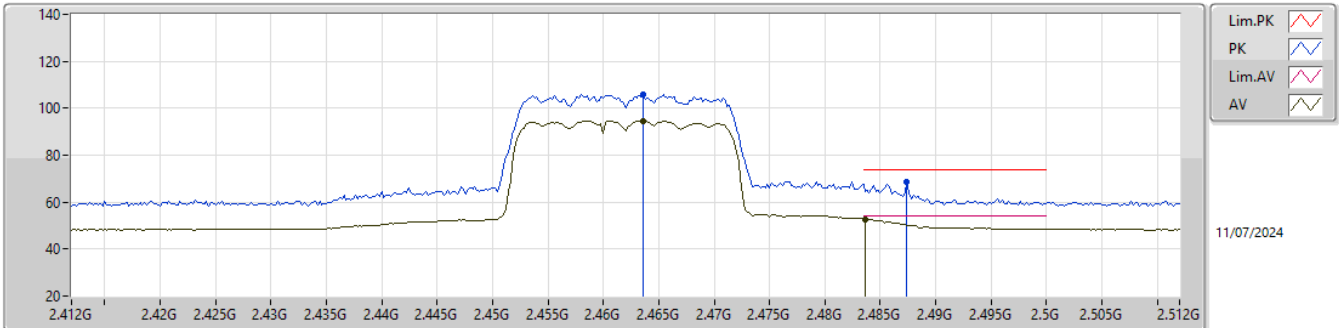


EUT_Z_2TX
Setting 7.5
01-I-P-5

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	2.4592G	98.96	Inf	-Inf	66.93	3	Vertical	291	2.31	-	27.41	4.62	-			
AV	2.4592G	87.89	Inf	-Inf	55.86	3	Vertical	291	2.31	-	27.41	4.62	-			
PK	2.4836G	61.70	74.00	-12.30	29.60	3	Vertical	291	2.31	-	27.50	4.60	-			
AV	2.4835G	49.04	54.00	-4.96	16.94	3	Vertical	291	2.31	-	27.50	4.60	-			

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

2462MHz_TX

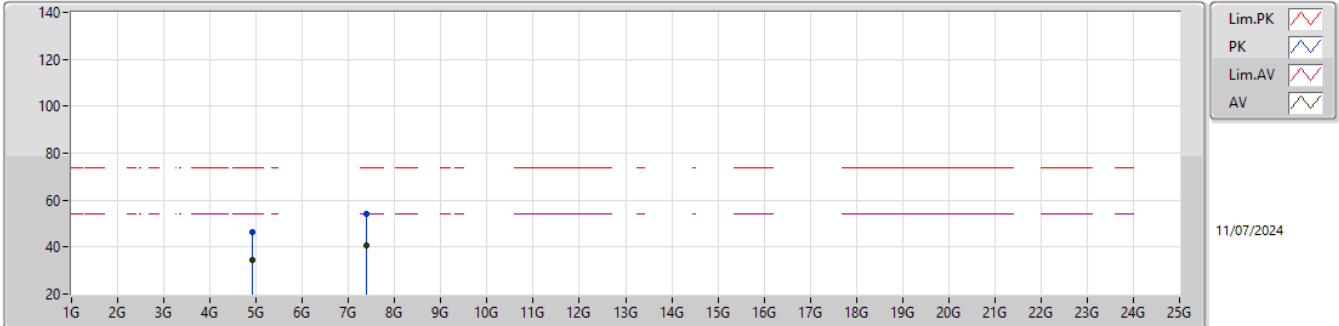


EUT_Z_2TX
Setting 7.5
01-I-P-5

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	2.4636G	105.95	Inf	-Inf	73.93	3	Horizontal	97	1.00	-	27.40	4.62	-			
AV	2.4636G	94.44	Inf	-Inf	62.42	3	Horizontal	97	1.00	-	27.40	4.62	-			
PK	2.4874G	68.46	74.00	-5.54	36.36	3	Horizontal	97	1.00	-	27.50	4.60	-			
AV	2.4836G	52.56	54.00	-1.44	20.46	3	Horizontal	97	1.00	-	27.50	4.60	-			

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

2462MHz_TX

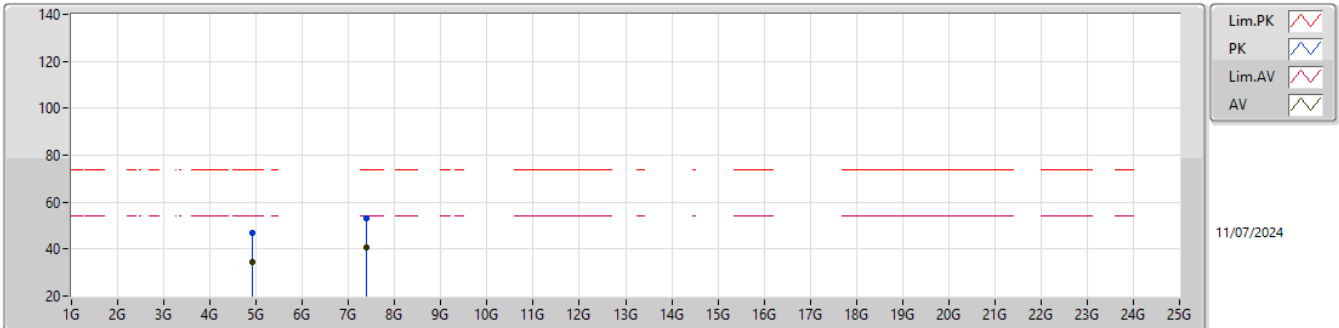


EUT_X_2TX
Setting 7.5
01-I-P-5

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	4.92264G	46.51	74.00	-27.49	40.67	3	Vertical	97	1.66	-	31.39	7.03	32.58			
AV	4.9254G	34.37	54.00	-19.63	28.51	3	Vertical	97	1.66	-	31.40	7.04	32.58			
PK	7.38688G	53.99	74.00	-20.01	41.78	3	Vertical	350	1.89	-	36.10	8.71	32.60			
AV	7.39588G	40.66	54.00	-13.34	28.43	3	Vertical	350	1.89	-	36.10	8.73	32.60			

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

2462MHz_TX

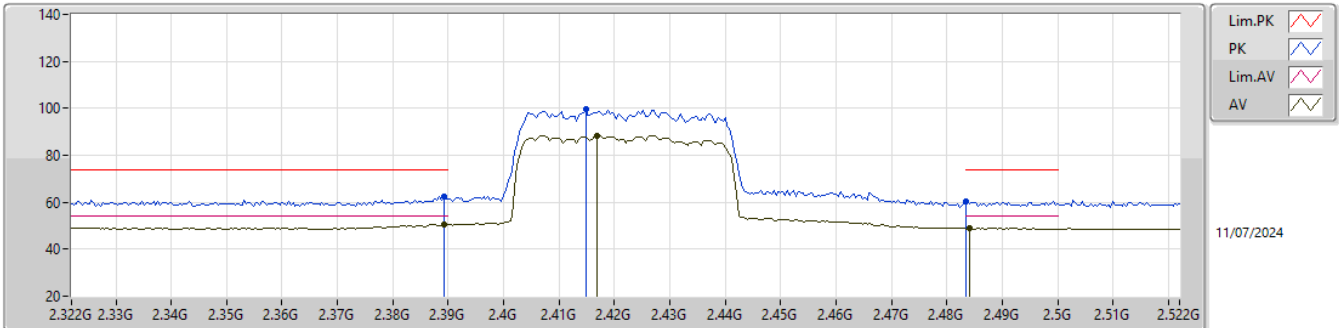


EUT_X_2TX
Setting 7.5
01-I-P-5

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	4.92724G	47.07	74.00	-26.93	41.20	3	Horizontal	121	2.32	-	31.41	7.04	32.58			
AV	4.9254G	34.37	54.00	-19.63	28.51	3	Horizontal	121	2.32	-	31.40	7.04	32.58			
PK	7.38892G	53.28	74.00	-20.72	41.06	3	Horizontal	129	2.50	-	36.10	8.72	32.60			
AV	7.39436G	40.58	54.00	-13.42	28.36	3	Horizontal	129	2.50	-	36.10	8.72	32.60			

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

2422MHz_TX

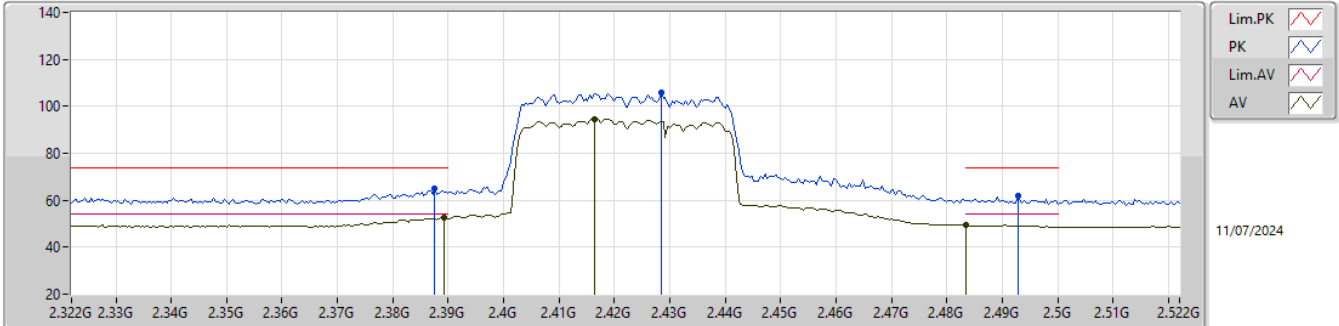


EUT_Z_2TX
Setting 10.5
01-I-P-5

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	2.3892G	62.46	74.00	-11.54	30.11	3	Vertical	287	2.11	-	27.70	4.65	-			
AV	2.3892G	50.73	54.00	-3.27	18.38	3	Vertical	287	2.11	-	27.70	4.65	-			
PK	2.4148G	99.40	Inf	-Inf	67.09	3	Vertical	287	2.11	-	27.65	4.66	-			
AV	2.4168G	88.53	Inf	-Inf	56.20	3	Vertical	287	2.11	-	27.67	4.66	-			
PK	2.4835G	60.48	74.00	-13.52	28.38	3	Vertical	287	2.11	-	27.50	4.60	-			
AV	2.484G	48.77	54.00	-5.23	16.67	3	Vertical	287	2.11	-	27.50	4.60	-			

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

2422MHz_TX

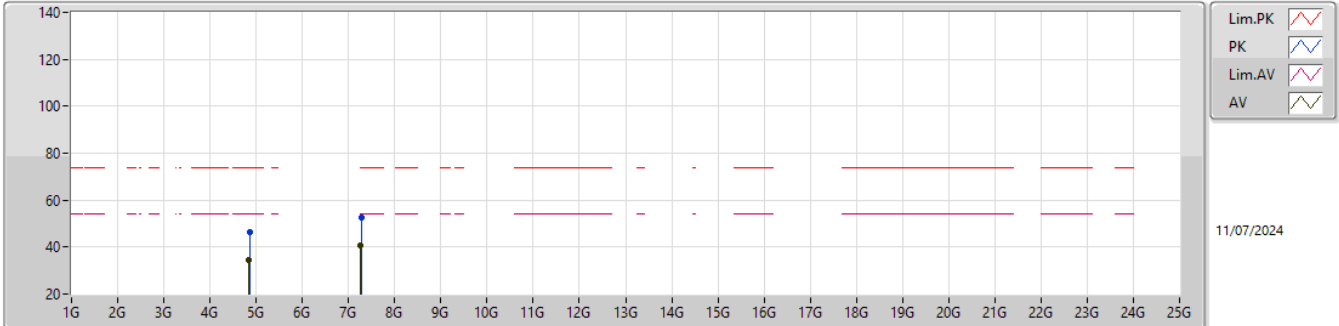


EUT_Z_2TX
Setting 10.5
01-I-P-5

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	2.3876G	64.79	74.00	-9.21	32.44	3	Horizontal	70	1.80	-	27.70	4.65	-			
AV	2.3892G	52.67	54.00	-1.33	20.32	3	Horizontal	70	1.80	-	27.70	4.65	-			
PK	2.4284G	105.67	Inf	-Inf	73.40	3	Horizontal	70	1.80	-	27.62	4.65	-			
AV	2.4164G	94.55	Inf	-Inf	62.23	3	Horizontal	70	1.80	-	27.66	4.66	-			
PK	2.4928G	62.02	74.00	-11.98	29.93	3	Horizontal	70	1.80	-	27.50	4.59	-			
AV	2.4835G	49.31	54.00	-4.69	17.21	3	Horizontal	70	1.80	-	27.50	4.60	-			

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

2422MHz_TX

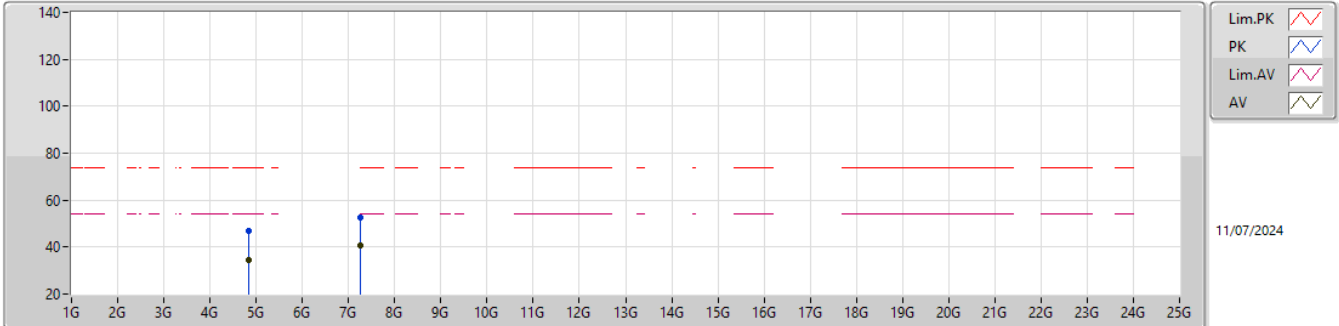


EUT_X_2TX
Setting 10.5
01-I-P-5

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	4.85852G	46.16	74.00	-27.84	40.46	3	Vertical	140	1.74	-	31.30	6.97	32.57			
AV	4.83992G	34.53	54.00	-19.47	28.85	3	Vertical	140	1.74	-	31.30	6.95	32.57			
PK	7.27764G	52.57	74.00	-21.43	40.37	3	Vertical	195	1.41	-	36.26	8.58	32.64			
AV	7.26666G	40.52	54.00	-13.48	28.37	3	Vertical	195	1.41	-	36.23	8.57	32.65			

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

2422MHz_TX

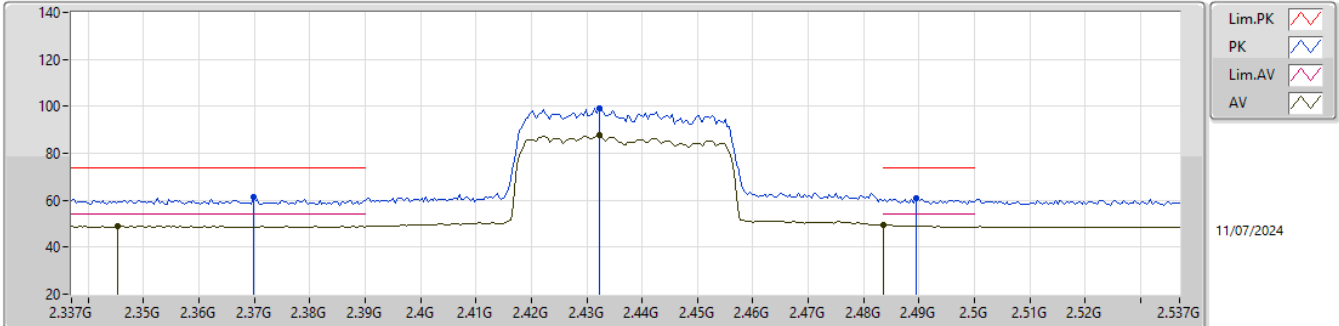


EUT_X_2TX
Setting 10.5
01-I-P-5

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	4.83542G	46.85	74.00	-27.15	41.17	3	Horizontal	214	1.35	-	31.30	6.95	32.57			
AV	4.84238G	34.63	54.00	-19.37	28.95	3	Horizontal	214	1.35	-	31.30	6.95	32.57			
PK	7.25772G	52.57	74.00	-21.43	40.44	3	Horizontal	49	2.86	-	36.22	8.56	32.65			
AV	7.26084G	40.59	54.00	-13.41	28.46	3	Horizontal	49	2.86	-	36.22	8.56	32.65			

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

2437MHz_TX

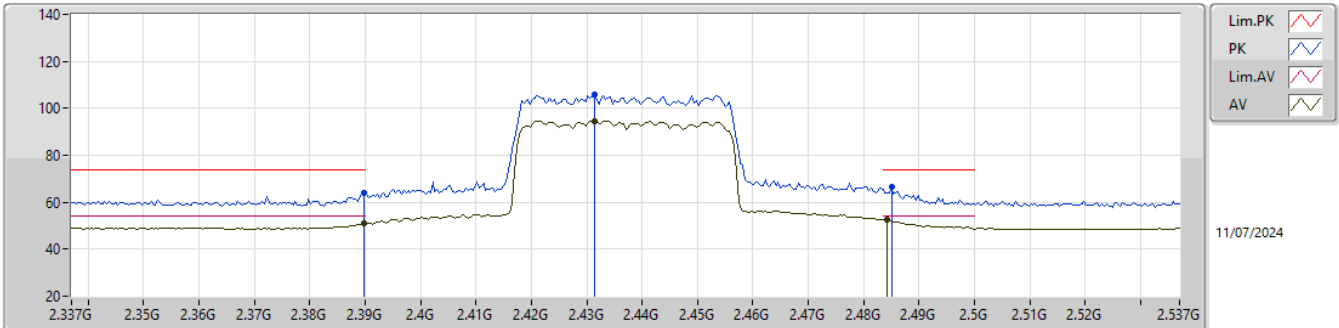


EUT_Z_2TX
Setting 9
01-I-P-5

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	2.3698G	61.18	74.00	-12.82	28.75	3	Vertical	296	2.36	-	27.80	4.63	-			
AV	2.3454G	49.19	54.00	-4.81	16.60	3	Vertical	296	2.36	-	28.00	4.59	-			
PK	2.4322G	99.17	Inf	-Inf	66.95	3	Vertical	296	2.36	-	27.58	4.64	-			
AV	2.4322G	87.51	Inf	-Inf	55.29	3	Vertical	296	2.36	-	27.58	4.64	-			
PK	2.4894G	60.74	74.00	-13.26	28.65	3	Vertical	296	2.36	-	27.50	4.59	-			
AV	2.4835G	49.57	54.00	-4.43	17.47	3	Vertical	296	2.36	-	27.50	4.60	-			

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

2437MHz_TX

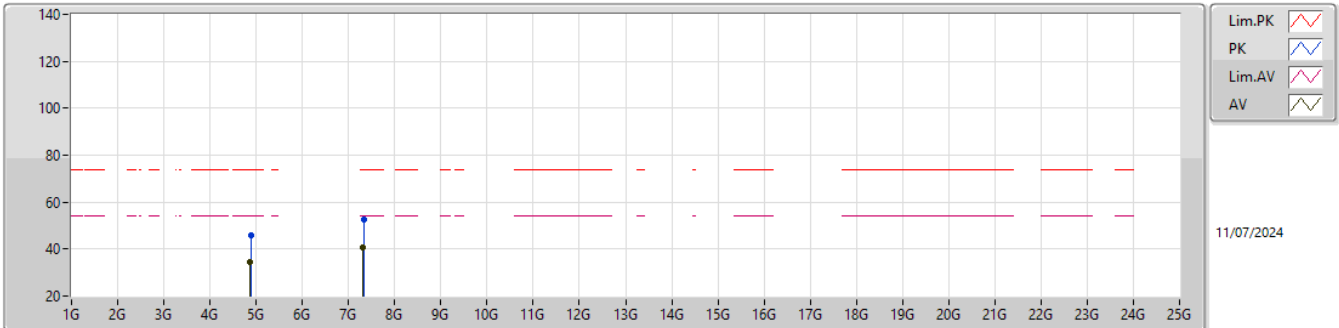


EUT_Z_2TX
Setting 9
01-I-P-5

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	2.3898G	63.82	74.00	-10.18	31.46	3	Horizontal	94	1.00	-	27.70	4.66	-			
AV	2.3898G	51.16	54.00	-2.84	18.80	3	Horizontal	94	1.00	-	27.70	4.66	-			
PK	2.4314G	105.96	Inf	-Inf	73.73	3	Horizontal	94	1.00	-	27.59	4.64	-			
AV	2.4314G	94.63	Inf	-Inf	62.40	3	Horizontal	94	1.00	-	27.59	4.64	-			
PK	2.485G	66.43	74.00	-7.57	34.33	3	Horizontal	94	1.00	-	27.50	4.60	-			
AV	2.4842G	52.74	54.00	-1.26	20.64	3	Horizontal	94	1.00	-	27.50	4.60	-			

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

2437MHz_TX

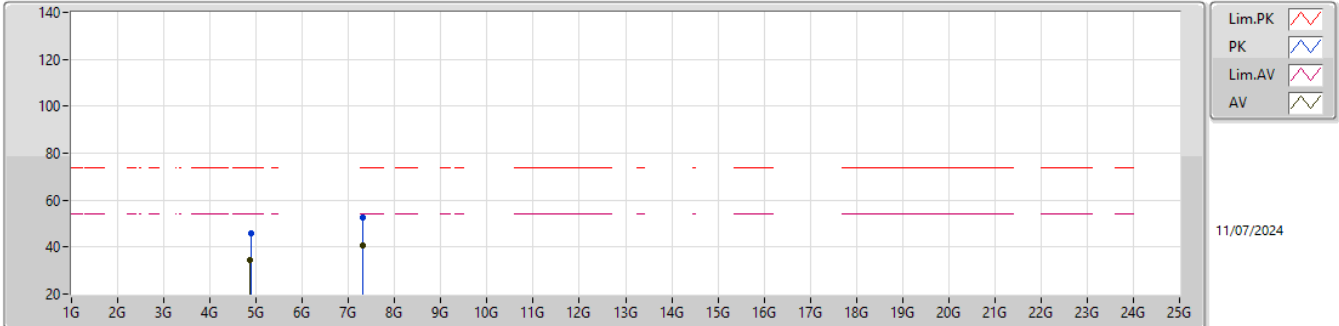


EUT_X_2TX
Setting 9
01-I-P-5

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	4.8776G	46.12	74.00	-27.88	40.41	3	Vertical	352	1.14	-	31.30	6.99	32.58				
AV	4.86494G	34.33	54.00	-19.67	28.63	3	Vertical	352	1.14	-	31.30	6.97	32.57				
PK	7.32432G	52.62	74.00	-21.38	40.41	3	Vertical	332	2.91	-	36.20	8.64	32.63				
AV	7.30476G	40.88	54.00	-13.12	28.61	3	Vertical	332	2.91	-	36.28	8.62	32.63				

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

2437MHz_TX

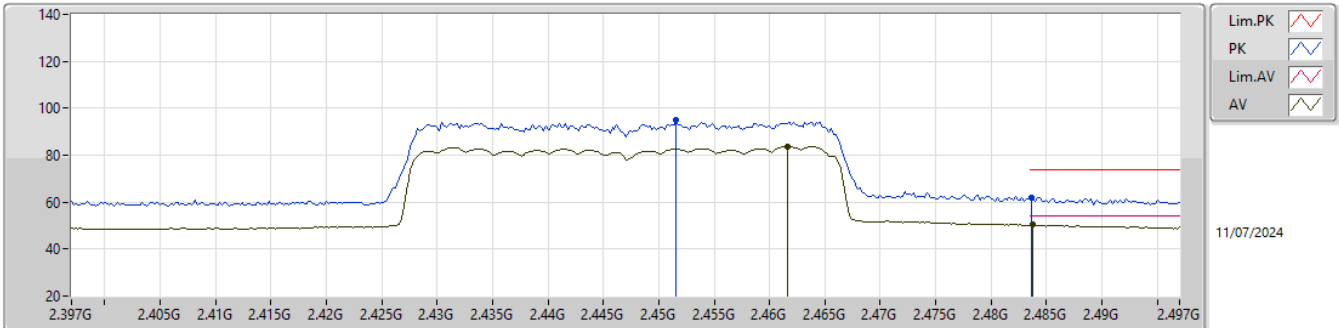


EUT_X_2TX
Setting 9
01-I-P-5

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	4.88G	46.11	74.00	-27.89	40.40	3	Horizontal	61	2.48	-	31.30	6.99	32.58			
AV	4.8614G	34.49	54.00	-19.51	28.79	3	Horizontal	61	2.48	-	31.30	6.97	32.57			
PK	7.31568G	52.50	74.00	-21.50	40.26	3	Horizontal	338	2.87	-	36.24	8.63	32.63			
AV	7.3002G	40.93	54.00	-13.07	28.66	3	Horizontal	338	2.87	-	36.30	8.61	32.64			

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

2447MHz_TX

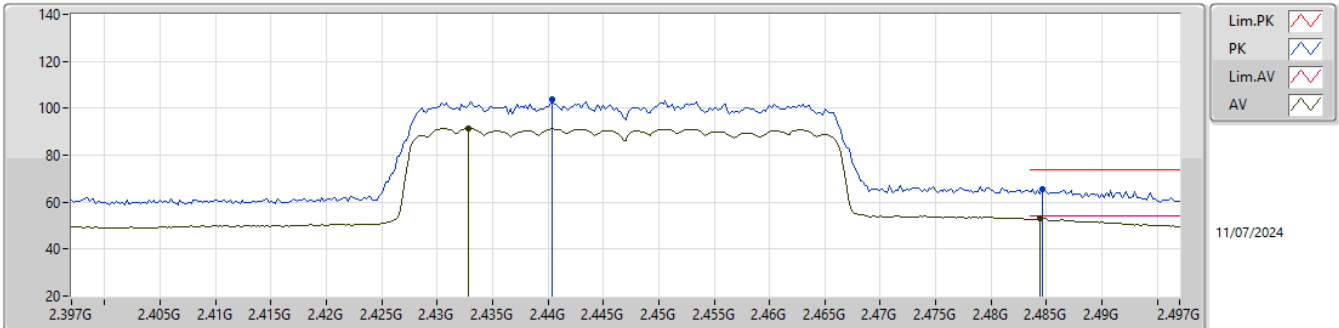


EUT_Z_2TX
Setting 6.5
01-I-P-5

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	2.4516G	94.94	Inf	-Inf	62.83	3	Vertical	287	2.33	-	27.48	4.63	-			
AV	2.4616G	83.74	Inf	-Inf	51.72	3	Vertical	287	2.33	-	27.40	4.62	-			
PK	2.4836G	62.13	74.00	-11.87	30.03	3	Vertical	287	2.33	-	27.50	4.60	-			
AV	2.4838G	50.30	54.00	-3.70	18.20	3	Vertical	287	2.33	-	27.50	4.60	-			

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

2447MHz_TX

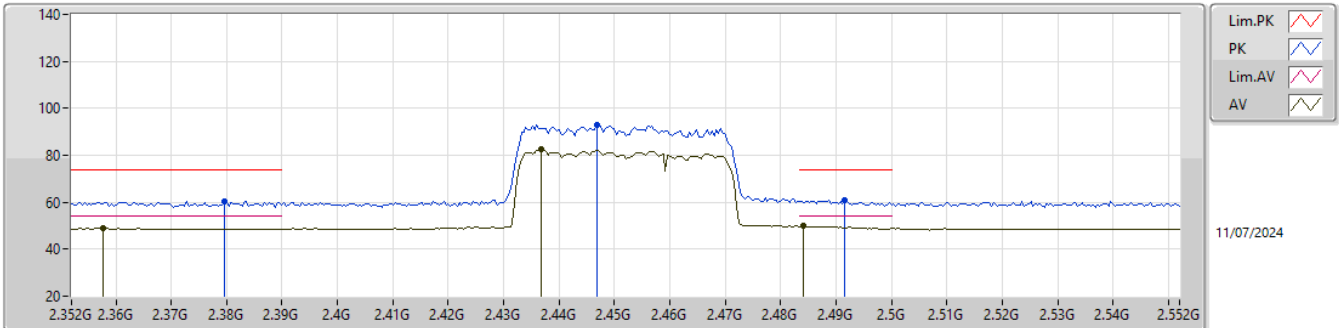


EUT_Z_2TX
Setting 6.5
01-I-P-5

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	2.4404G	103.81	Inf	-Inf	71.67	3	Horizontal	103	1.01	-	27.50	4.64	-			
AV	2.4328G	91.29	Inf	-Inf	59.08	3	Horizontal	103	1.01	-	27.57	4.64	-			
PK	2.4846G	65.59	74.00	-8.41	33.49	3	Horizontal	103	1.01	-	27.50	4.60	-			
AV	2.4844G	52.92	54.00	-1.08	20.82	3	Horizontal	103	1.01	-	27.50	4.60	-			

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

2452MHz_TX

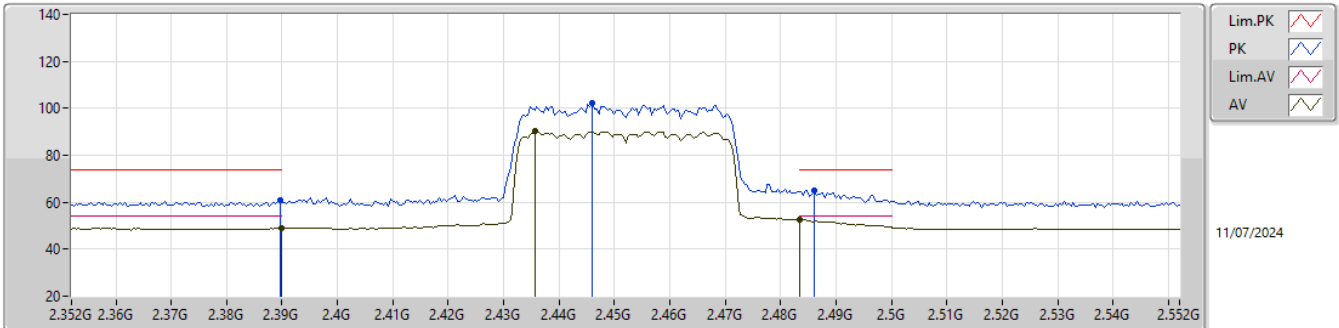


EUT_Z_2TX
Setting 6
01-I-P-5

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	2.3796G	60.29	74.00	-13.71	27.95	3	Vertical	294	2.38	-	27.70	4.64	-			
AV	2.3576G	49.06	54.00	-4.94	16.53	3	Vertical	294	2.38	-	27.92	4.61	-			
PK	2.4468G	93.03	Inf	-Inf	60.90	3	Vertical	294	2.38	-	27.50	4.63	-			
AV	2.4368G	82.36	Inf	-Inf	50.19	3	Vertical	294	2.38	-	27.53	4.64	-			
PK	2.4916G	60.94	74.00	-13.06	28.85	3	Vertical	294	2.38	-	27.50	4.59	-			
AV	2.484G	49.82	54.00	-4.18	17.72	3	Vertical	294	2.38	-	27.50	4.60	-			

2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

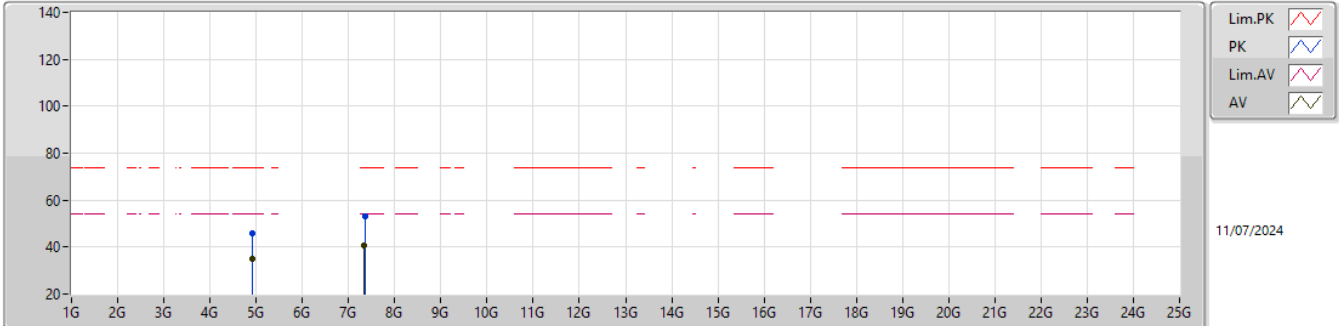


EUT_Z_2TX
Setting 6
01-I-P-5

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	2.3896G	60.93	74.00	-13.07	28.58	3	Horizontal	95	1.02	-	27.70	4.65	-			
AV	2.39G	49.07	54.00	-4.93	16.71	3	Horizontal	95	1.02	-	27.70	4.66	-			
PK	2.446G	102.43	Inf	-Inf	70.30	3	Horizontal	95	1.02	-	27.50	4.63	-			
AV	2.4356G	90.18	Inf	-Inf	58.00	3	Horizontal	95	1.02	-	27.54	4.64	-			
PK	2.486G	64.83	74.00	-9.17	32.73	3	Horizontal	95	1.02	-	27.50	4.60	-			
AV	2.4835G	52.74	54.00	-1.26	20.64	3	Horizontal	95	1.02	-	27.50	4.60	-			

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

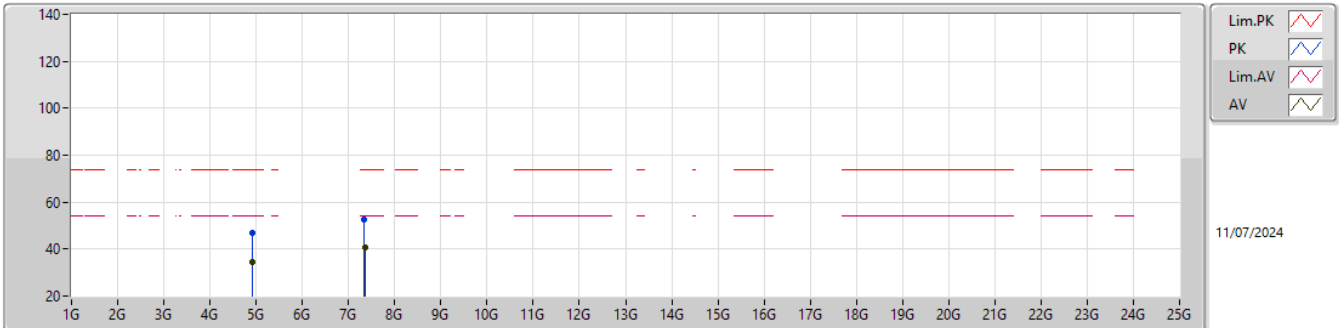
2452MHz_TX


EUT_X_2TX
Setting 6
01-I-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	4.91018G	45.82	74.00	-28.18	40.04	3	Vertical	196	2.20	-	31.34	7.02	32.58			
AV	4.91642G	34.78	54.00	-19.22	28.96	3	Vertical	196	2.20	-	31.37	7.03	32.58			
PK	7.3581G	53.07	74.00	-20.93	40.90	3	Vertical	116	2.38	-	36.10	8.68	32.61			
AV	7.3437G	40.84	54.00	-13.16	28.67	3	Vertical	116	2.38	-	36.13	8.66	32.62			

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

2452MHz_TX



EUT_X_2TX
Setting 6
01-I-P-5

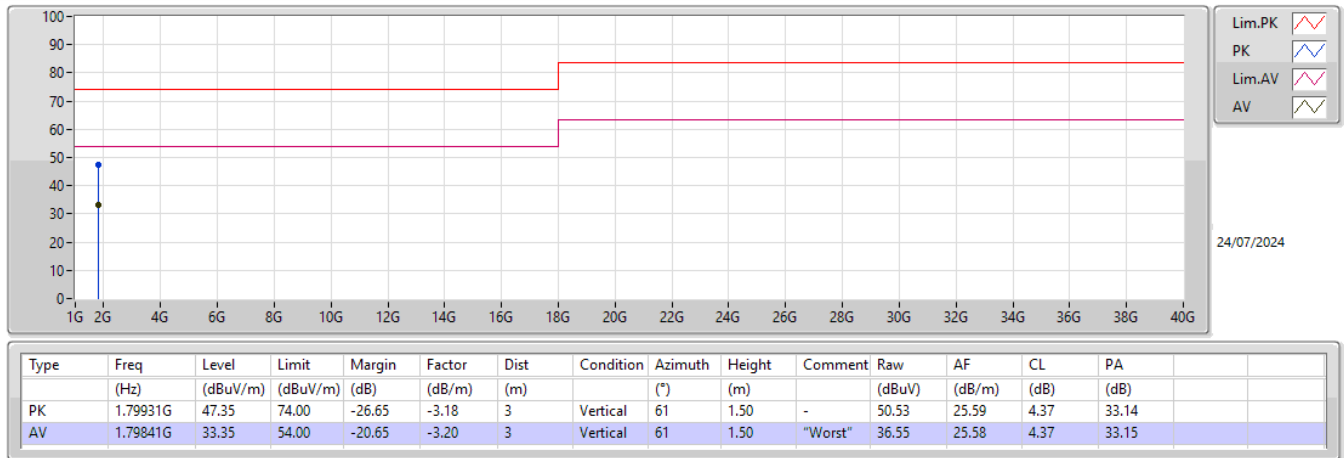
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9106G	46.85	74.00	-27.15	41.07	3	Horizontal	79	2.32	-	31.34	7.02	32.58			
AV	4.9175G	34.70	54.00	-19.30	28.88	3	Horizontal	79	2.32	-	31.37	7.03	32.58			
PK	7.3446G	52.45	74.00	-21.55	40.29	3	Horizontal	124	1.23	-	36.12	8.66	32.62			
AV	7.36992G	40.67	54.00	-13.33	28.49	3	Horizontal	124	1.23	-	36.10	8.69	32.61			



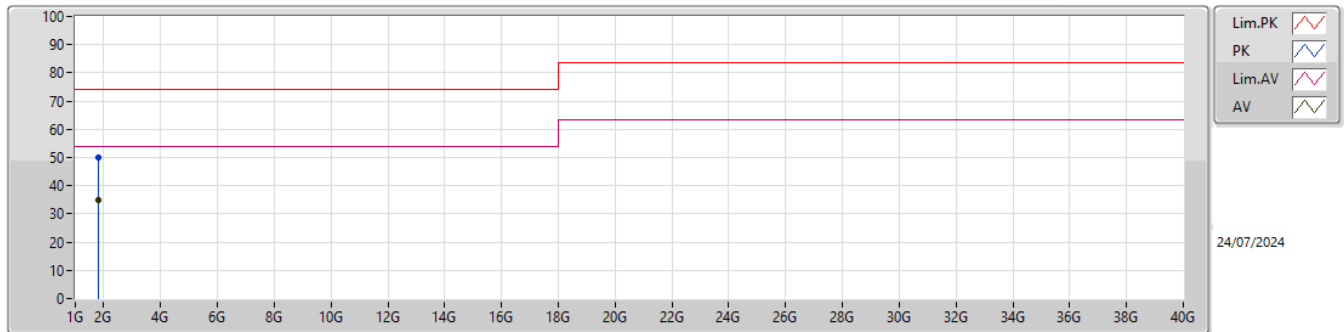
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.79841G	35.05	54.00	-18.95	Horizontal

Mode 1



Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.7914G	50.08	74.00	-23.92	-3.28	3	Horizontal	188	1.50	-	53.36	25.51	4.36	33.15		
AV	1.79841G	35.05	54.00	-18.95	-3.20	3	Horizontal	188	1.50	"Worst"	38.25	25.58	4.37	33.15		