



RADIO TEST REPORT

FCC ID : N89-EWW631A1V1
Equipment : AX3000 Wireless Dual Band Ceiling Mount Access Point
Brand Name : SonicFi, CyberTAN
Model Name : EWW631-A1
Applicant : CyberTAN Technology Inc.
No. 99, Park Avenue III Science-based Industrial Park
Hsinchu Taiwan 308
Manufacturer : CyberTAN Technology Inc.
No. 99, Park Avenue III Science-based Industrial Park
Hsinchu Taiwan 308
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 18, 2023, and testing was started from Aug. 18, 2023 and completed on Oct. 16, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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Photographs of EUT v01



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10 10 Ver1.3



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen**Report Producer: Sandy Chuang**



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	2.4GHz	5GHz					
1	1	1	HONGBO	290-50265	Metal Antenna	I-PEX	Note 1
2	2	2	HONGBO	290-50265	Metal Antenna	I-PEX	

Note 1:

Ant.	Antenna Gain (dBi)				
	2.4GHz	5GHz UNII 1	5GHz UNII 2A	5GHz UNII 2C	5GHz UNII 3
1	3.9	4.5	4.5	4.4	4.4
2	3.9	4.7	4.7	4.4	4.5

Note 2: The above information was declared by manufacturer.

For 2.4GHz function:**For IEEE 802.11b/g/n/VHT/ax (2TX/2RX)**

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

Port 1 and Port 2 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11a/n/ac/ax (2TX/2RX)**

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

Port 1 and Port 2 could transmit/receive simultaneously.

Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

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

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

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

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

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

Where ;

$$2.4G\ G1 = 3.9\ dBi ; G2 = 3.9\ dBi ;$$

$$5G\ UNII-1\ G1 = 4.5\ dBi ; G2 = 4.7\ dBi ;$$

$$5G\ UNII-2A\ G1 = 4.5\ dBi ; G2 = 4.7\ dBi ;$$

$$5G\ UNII-2C\ G1 = 4.4\ dBi ; G2 = 4.4\ dBi ;$$

$$5G\ UNII-3\ G1 = 4.4\ dBi ; G2 = 4.5\ dBi ;$$

$$2.4G\ DG = 6.91\ dBi$$

$$5G\ UNII-1\ DG = 7.61\ dBi$$

$$5G\ UNII-2A\ DG = 7.61\ dBi$$

$$5G\ UNII-2C\ DG = 7.41\ dB$$

$$5G\ UNII-3\ DG = 7.46\ dBi$$

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.973	0.12	12.626m	100
802.11g	0.943	0.25	1.98m	1k
802.11ax HEW20-BF	0.961	0.17	1.784m	1k
802.11ax HEW40-BF	0.934	0.3	1.784m	1k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☐	Partial RU
Test Software Version	QRCT.exe Version 4.0.00204.0			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

EUT	Brand Name	Description
1	CyberTAN	All the brands are identical, the difference brand served as marketing strategy.
2	SonicFi	

Note:

- From the above EUTs, EUT 1: CyberTAN was selected as representative model for the test and its data was recorded in this report.
- The above information was declared by manufacturer.



1.2 Applicable Standards

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

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

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

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

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Nyle Chang	22.4~23.1 / 62~67	Sep. 01, 2023~ Oct. 04, 2023
Radiated below 1GHz	03CH05-CB	Mark Hsu	22.2-23.3 / 56-59	Aug. 18, 2023~ Oct. 16, 2023
Radiated above 1GHz	03CH03-CB	Mark Hsu	22.4-23.5 / 55-58	Aug. 18, 2023~ Oct. 16, 2023
	03CH04-CB	Mark Hsu	22.7-23.8 / 56-59	Aug. 18, 2023~ Oct. 16, 2023
Radiated Co-location	03CH05-CB	Mark Hsu	22.2-23.3 / 56-59	Aug. 18, 2023~ Oct. 16, 2023
AC Conduction	CO01-CB	Ryan Huang	22~23 / 57~58	Aug. 29, 2023



1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	22.5
2417MHz	25
2437MHz	26
2462MHz	23.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	21
2417MHz	22.5
2437MHz	24
2462MHz	22
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	24
2417MHz	26
2437MHz	27
2457MHz	25
2462MHz	23
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	23
2437MHz	24
2452MHz	22

Note:

- ♦ Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ The EUT supports non-beamforming and beamforming mode, only beamforming mode has been selected to test.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT 1 + PoE

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
The EUT can be placed in X axis, Y axis and Z axis. EUT Y axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT 1 in Y axis + WLAN 2.4GHz + PoE
2	EUT 1 in Y axis + WLAN 5GHz + PoE
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. Thus, the measurement will follow this same test configuration.	
1	EUT 1 in Y axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT can be placed in X axis, Y axis and Z axis. EUT Y axis has been evaluated to be the worst case at Emissions in Restricted Frequency Bands <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT 1 in Y axis + WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA381815 for Co-location RF Exposure Evaluation.	

Note : The PoE are for measurement only, would not be marketed.

The PoE information as below:

Power	Brand	Model
PoE	Microsemi	PD-9501-10GC/AC

2.3 EUT Operation during Test

For CTX Mode:

<non-beamforming mode>

The EUT was programmed to be in continuously transmitting mode.

<Beamforming mode>

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

The program was executed as follows:

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

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
Cradle*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Microsemi	PD-9501-10GC/AC	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A

For Radiated Emission below 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	Microsemi	PD-9501-10GC/AC	N/A

For Radiated Emission above 1GHz and RF conducted:

<Non-beamforming mode>

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE	Microsemi	PD-9501-10GC/AC	N/A

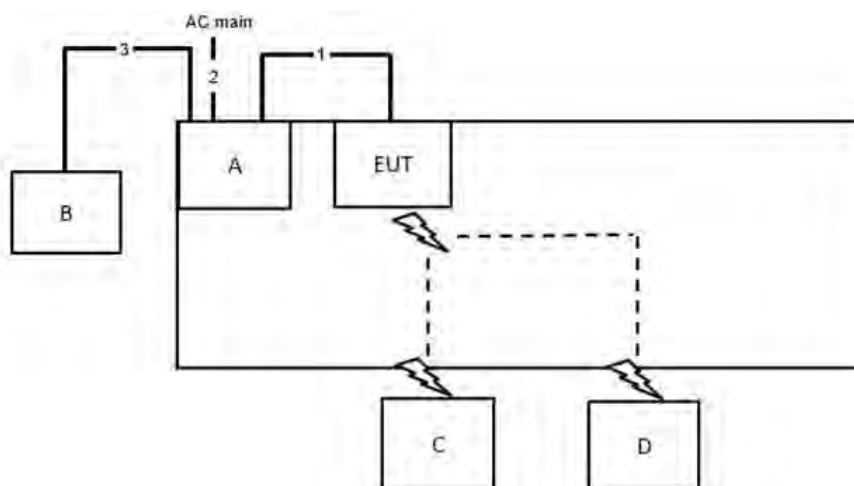
For Radiated Emission above 1GHz and RF conducted:

<Beamforming mode>

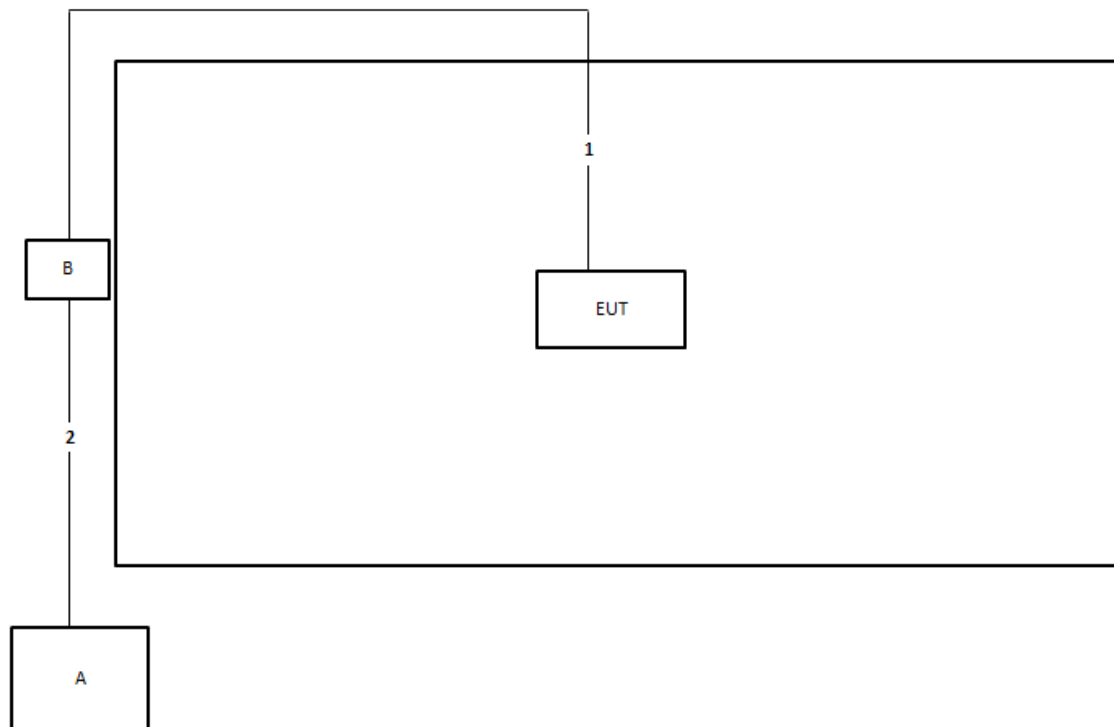
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Client	Cybertan	EW631-A1	N/A
C	Notebook	DELL	E4300	N/A
D	PoE	Microsemi	PD-9501-10GC/AC	N/A

2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test

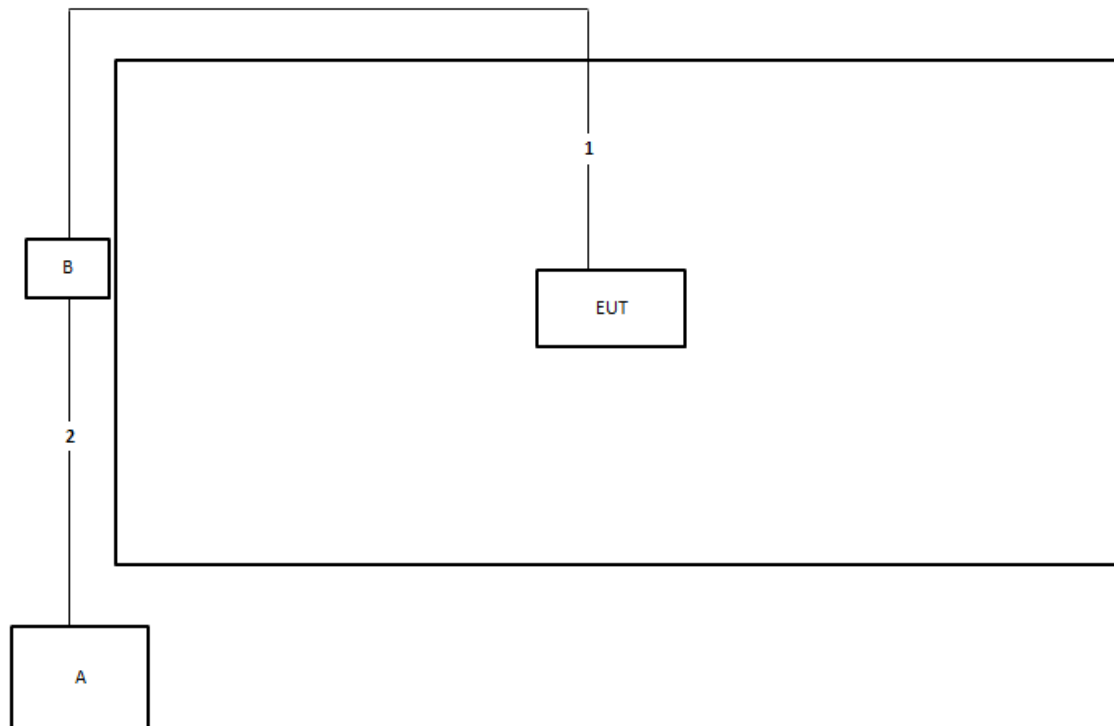


Item	Connection	Shielded	Length
1	RJ-45 Cable	No	1.5m
2	Power cable	No	1m
3	RJ-45 Cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz


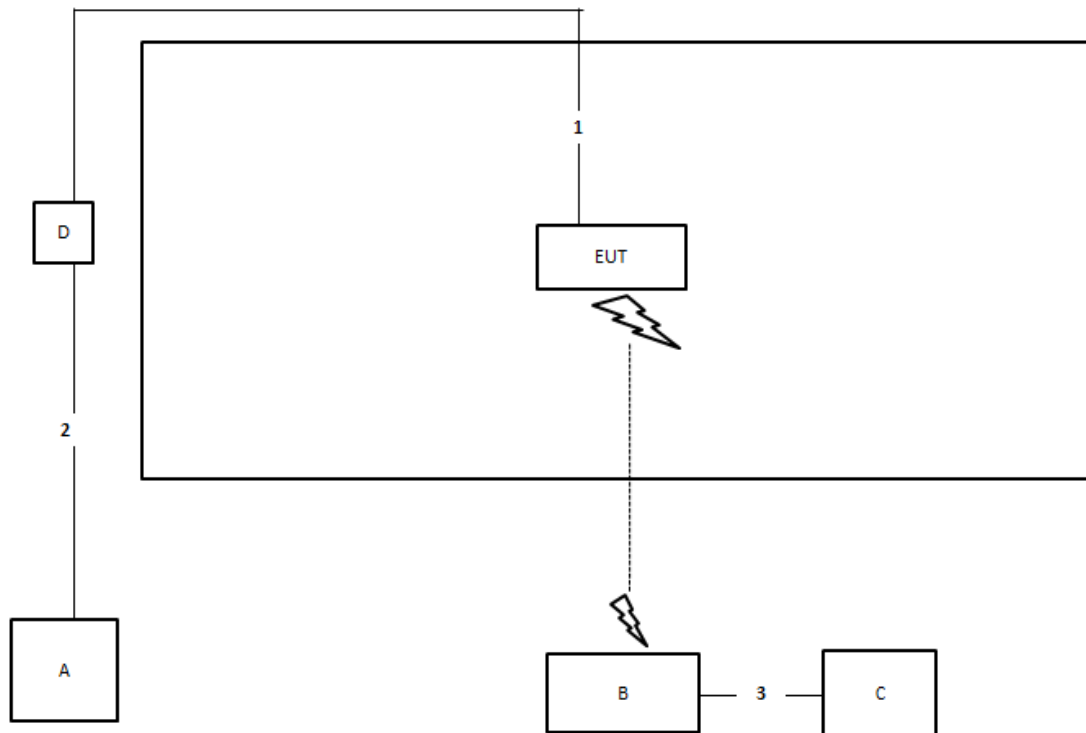
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m

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



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

**Test Setup Diagram - Radiated Test > 1GHz
<Beamforming mode>**



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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

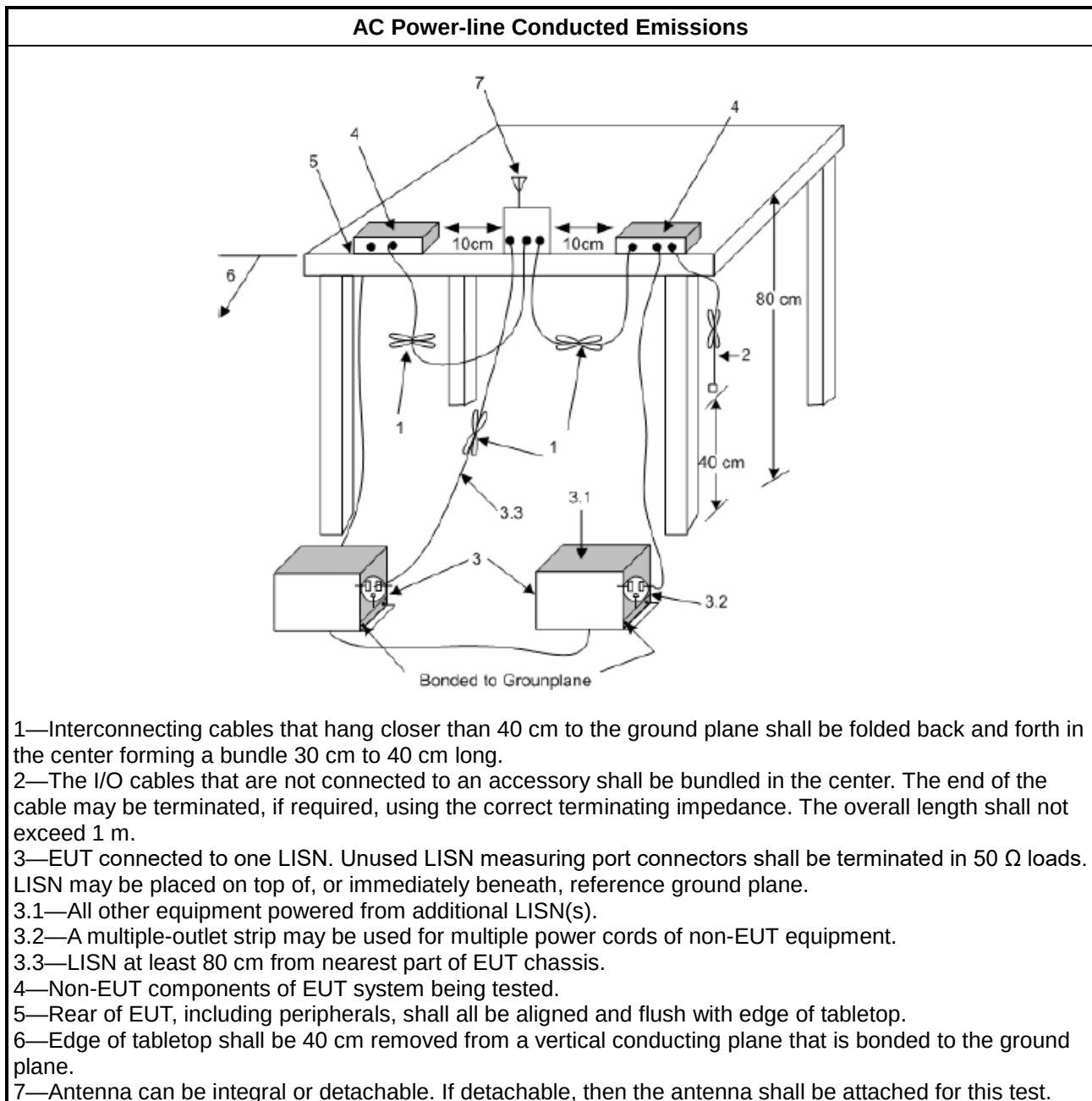
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



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.

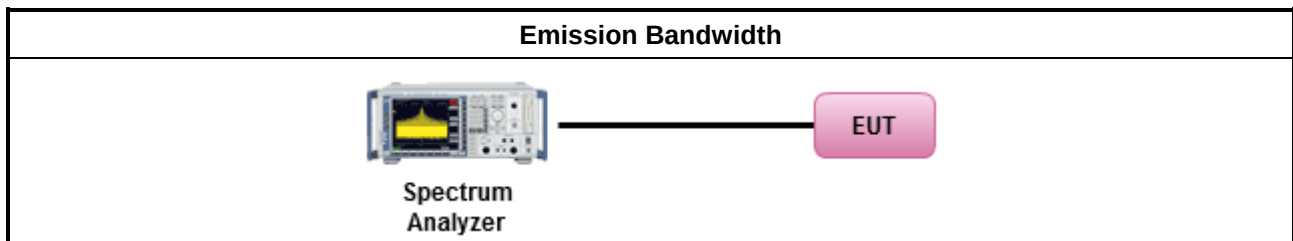
3.2.2 Measuring Instruments

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.	

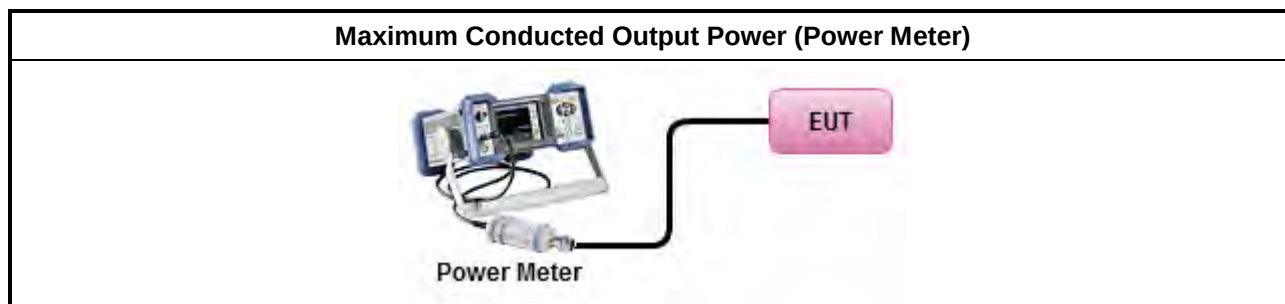
3.3.2 Measuring Instruments

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

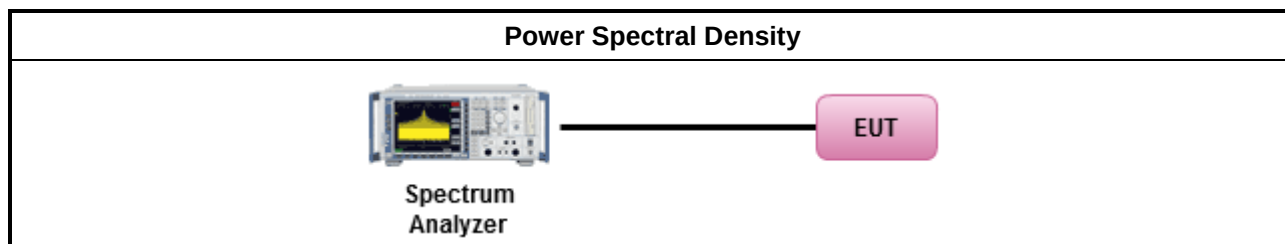
3.4.2 Measuring Instruments

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.	

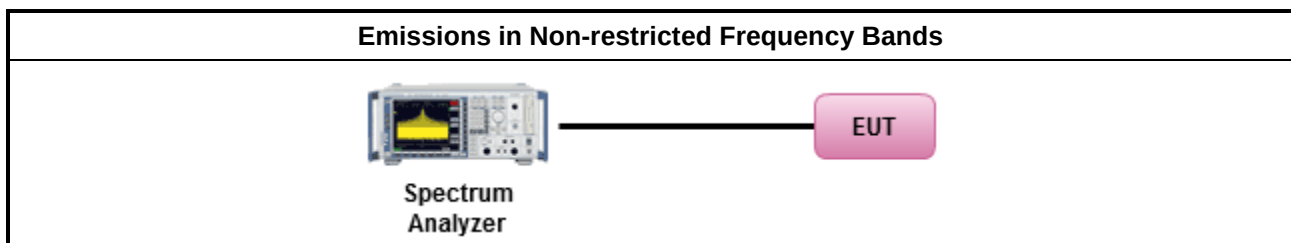
3.5.2 Measuring Instruments

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 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 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

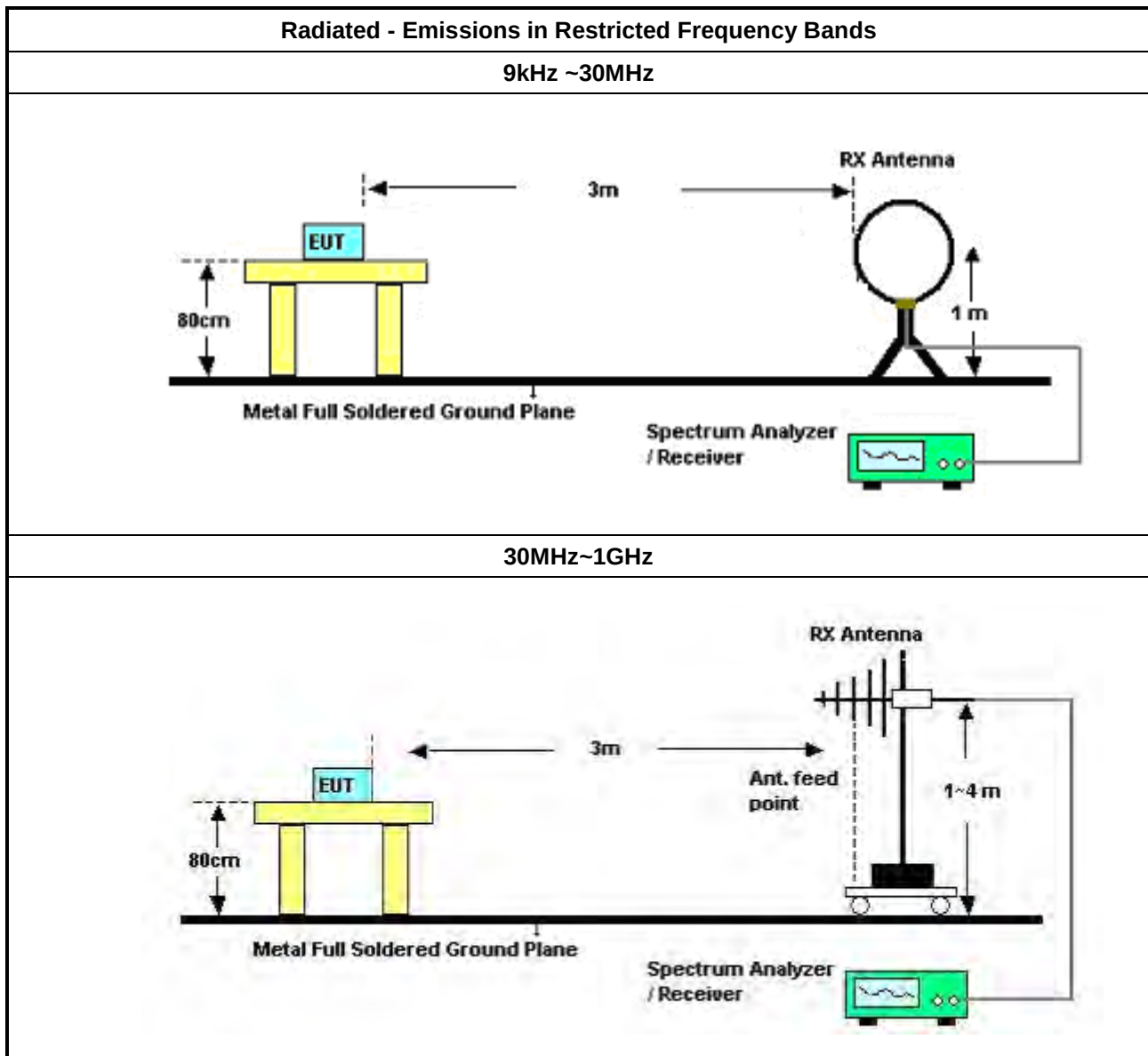
Refer a test equipment and calibration data table in this test report.

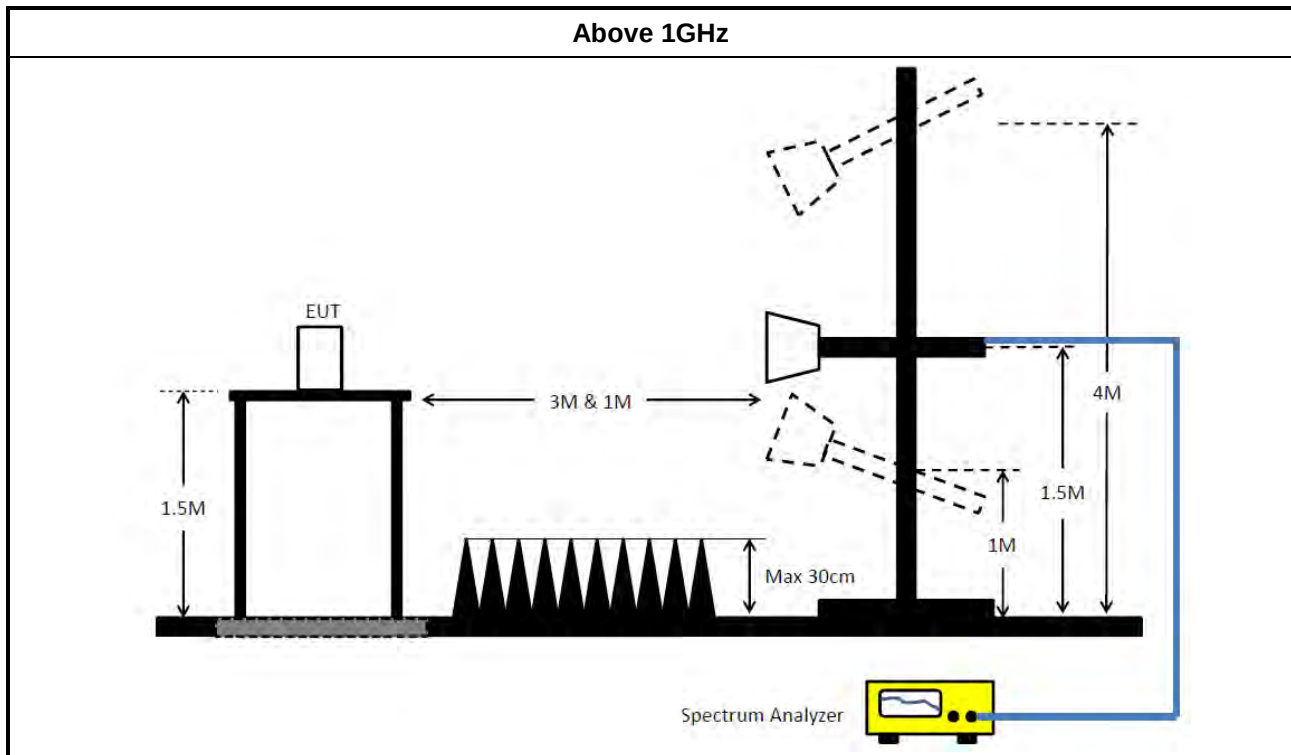


3.6.3 Test Procedures

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	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 06, 2022	Nov. 05, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 24, 2023	Mar. 23, 2024	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 08, 2023	Jun. 07, 2024	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 03, 2023	May 02, 2024	Radiation (03CH05-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH05-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Aug. 16, 2023	Aug. 15, 2024	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 23, 2023	Feb. 22, 2024	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 12, 2022	Oct. 11, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 04, 2023	Oct. 03, 2024	Radiation (03CH04-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH04-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 21, 2023	Mar. 20, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)

**RADIO TEST REPORT****Report No. : FR381815AA**

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 –26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

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

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



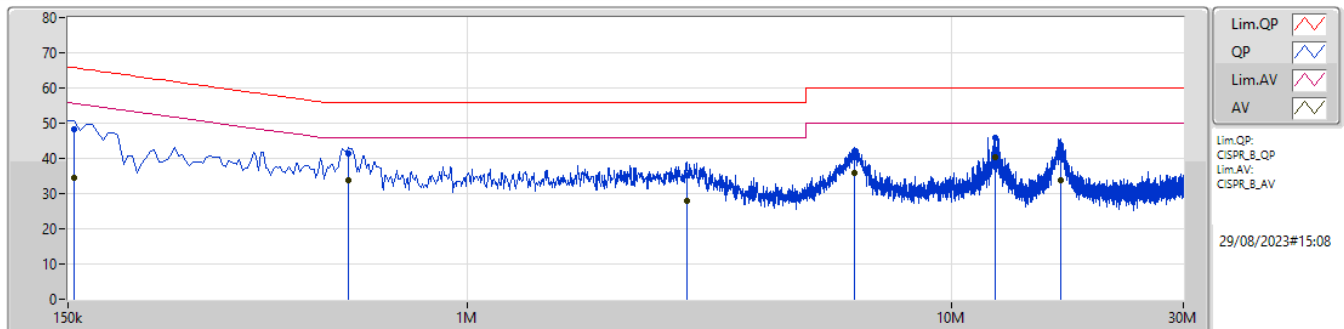
Conducted Emissions at Powerline

Appendix A

Summary

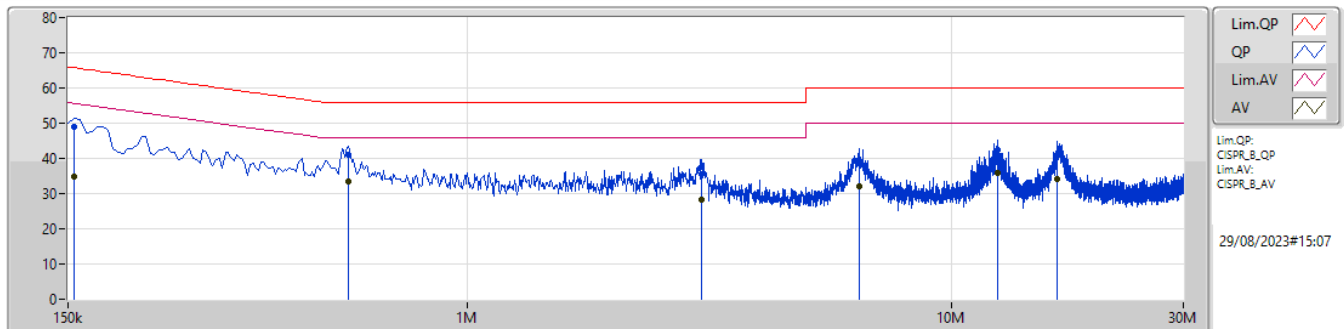
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	12.287M	40.32	50.00	-9.68	Line

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	48.27	65.75	-17.48	10.00	Line	-	38.27	0.09	0.04	9.87						
AV	154.5k	34.46	55.75	-21.29	10.00	Line	-	24.46	0.09	0.04	9.87						
QP	568.5k	41.55	56.00	-14.45	10.05	Line	-	31.50	0.10	0.05	9.90						
AV	568.5k	33.66	46.00	-12.34	10.05	Line	-	23.61	0.10	0.05	9.90						
QP	2.841M	35.15	56.00	-20.85	10.17	Line	-	24.98	0.16	0.10	9.91						
AV	2.841M	27.89	46.00	-18.11	10.17	Line	-	17.72	0.16	0.10	9.91						
QP	6.279M	42.08	60.00	-17.92	10.26	Line	-	31.82	0.21	0.13	9.92						
AV	6.279M	35.94	50.00	-14.06	10.26	Line	-	25.68	0.21	0.13	9.92						
QP	12.287M	45.73	60.00	-14.27	10.39	Line	-	35.34	0.26	0.17	9.96						
AV	12.287M	40.32	50.00	-9.68	10.39	Line	"Worst"	29.93	0.26	0.17	9.96						
QP	16.724M	40.68	60.00	-19.32	10.47	Line	-	30.21	0.29	0.19	9.99						
AV	16.724M	33.89	50.00	-16.11	10.47	Line	-	23.42	0.29	0.19	9.99						

Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	154.5k	48.96	65.75	-16.79	9.98	Neutral	-	38.98	0.07	0.04	9.87						
AV	154.5k	34.76	55.75	-20.99	9.98	Neutral	-	24.78	0.07	0.04	9.87						
QP	568.5k	40.89	56.00	-15.11	10.02	Neutral	-	30.87	0.07	0.05	9.90						
AV	568.5k	33.34	46.00	-12.66	10.02	Neutral	"Worst"	23.32	0.07	0.05	9.90						
QP	3.035M	35.54	56.00	-20.46	10.13	Neutral	-	25.41	0.12	0.10	9.91						
AV	3.035M	28.21	46.00	-17.79	10.13	Neutral	-	18.08	0.12	0.10	9.91						
QP	6.441M	38.51	60.00	-21.49	10.24	Neutral	-	28.27	0.18	0.13	9.93						
AV	6.441M	32.12	50.00	-17.88	10.24	Neutral	-	21.88	0.18	0.13	9.93						
QP	12.417M	42.30	60.00	-17.70	10.38	Neutral	-	31.92	0.25	0.17	9.96						
AV	12.417M	35.84	50.00	-14.16	10.38	Neutral	-	25.46	0.25	0.17	9.96						
QP	16.472M	40.99	60.00	-19.01	10.45	Neutral	-	30.54	0.27	0.19	9.99						
AV	16.472M	34.17	50.00	-15.83	10.45	Neutral	-	23.72	0.27	0.19	9.99						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.525M	13.741M	13M7G1D	7.075M	12.964M
802.11g_Nss1,(6Mbps)_2TX	15.1M	16.289M	16M3D1D	13.775M	16.21M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	16.25M	18.827M	18M8D1D	13.75M	18.761M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	34.95M	37.851M	37M9D1D	16.95M	37.438M

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

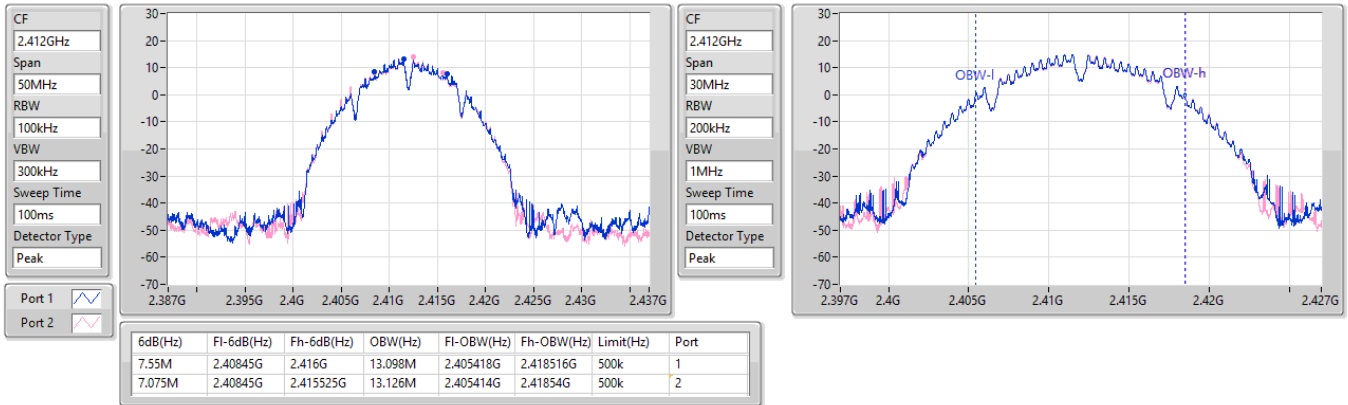
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7.55M	13.098M	7.075M	13.126M
2437MHz	Pass	500k	7.6M	13.741M	8.025M	13.275M
2462MHz	Pass	500k	7.55M	13.064M	8.525M	12.964M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15M	16.222M	15.1M	16.266M
2437MHz	Pass	500k	13.825M	16.278M	13.775M	16.289M
2462MHz	Pass	500k	15.05M	16.21M	15.025M	16.258M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	13.75M	18.796M	15.05M	18.761M
2437MHz	Pass	500k	16.25M	18.821M	15.075M	18.827M
2462MHz	Pass	500k	15.025M	18.8M	15.075M	18.766M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	16.95M	37.461M	33.75M	37.536M
2437MHz	Pass	500k	32.55M	37.475M	34.95M	37.525M
2452MHz	Pass	500k	23.85M	37.851M	18.5M	37.438M

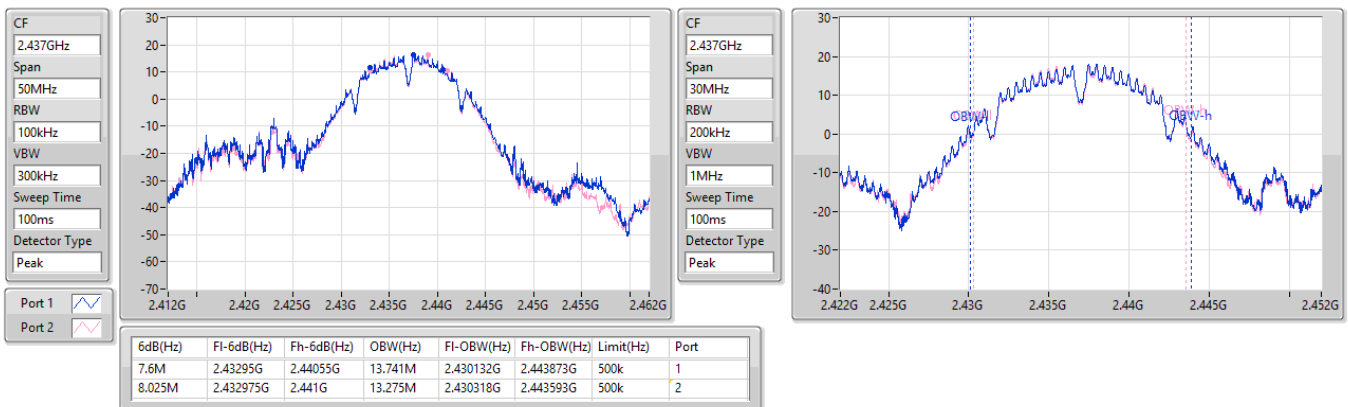
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

01/09/2023

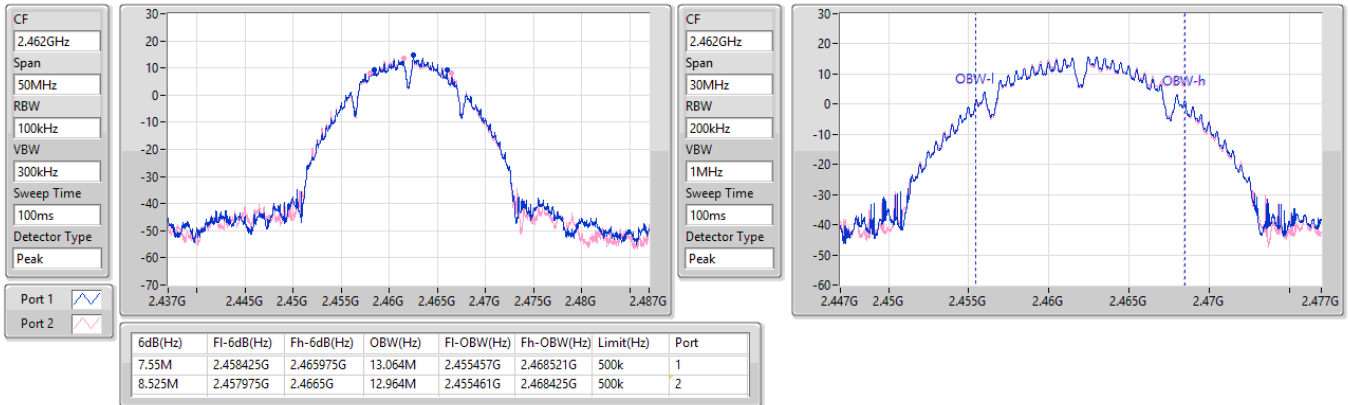

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

01/09/2023

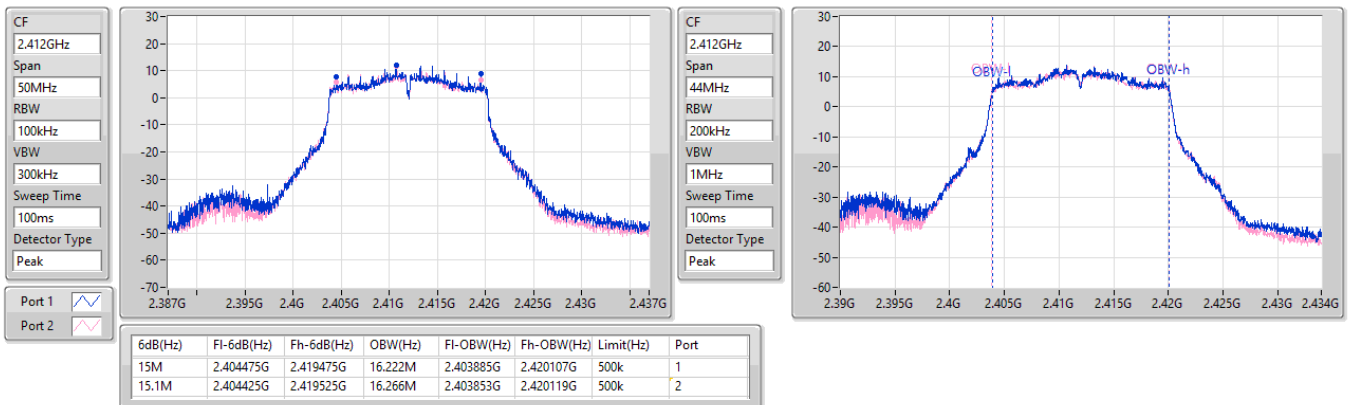


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

01/09/2023

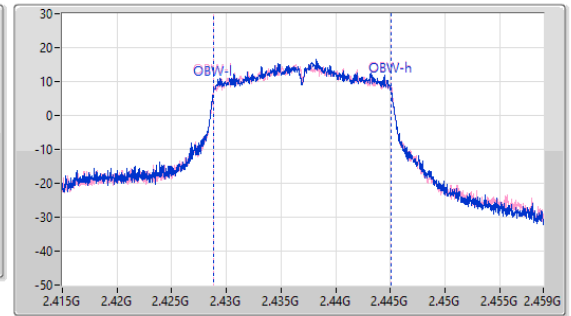
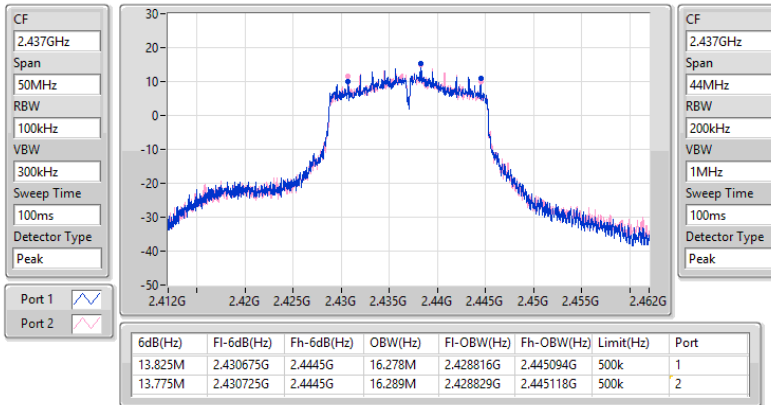

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

01/09/2023

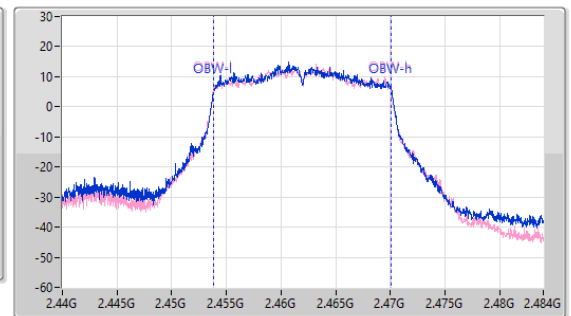
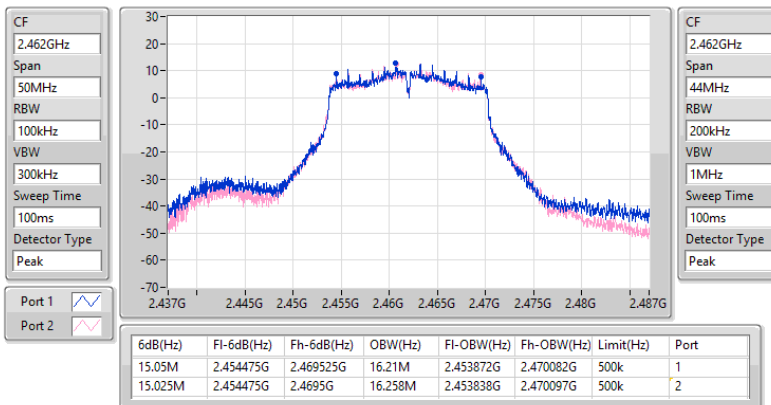


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

01/09/2023

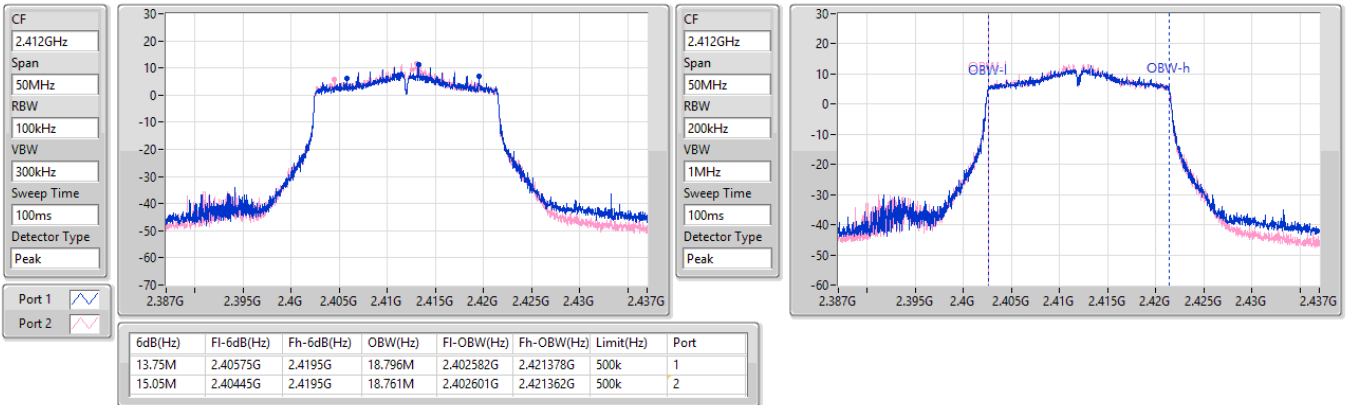

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

01/09/2023

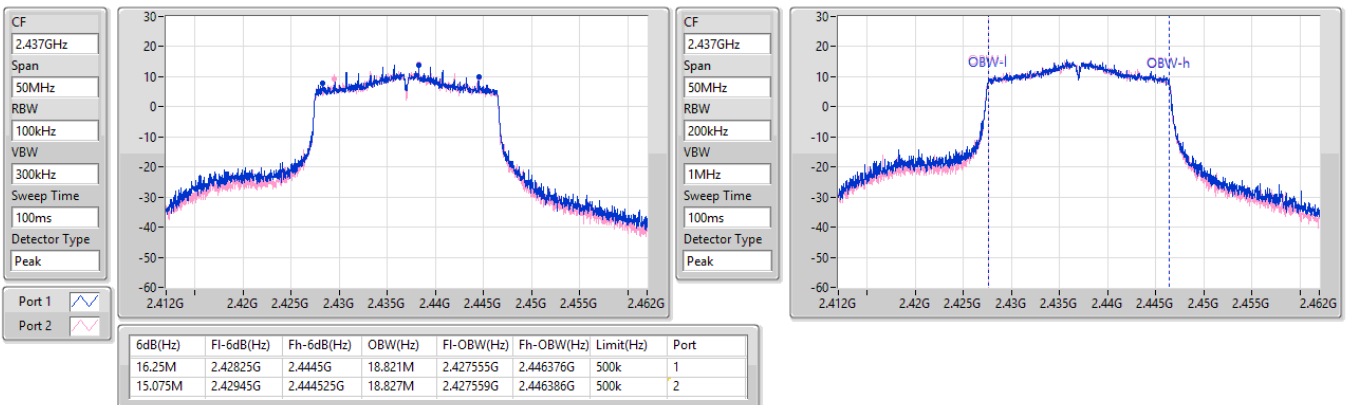


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

01/09/2023

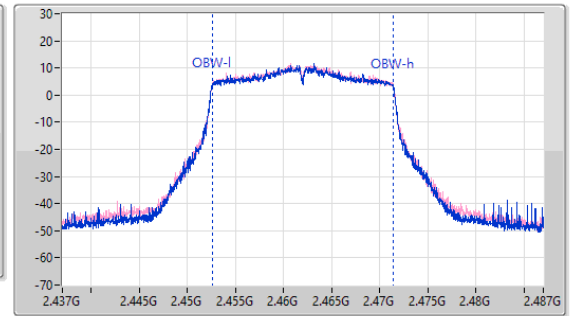
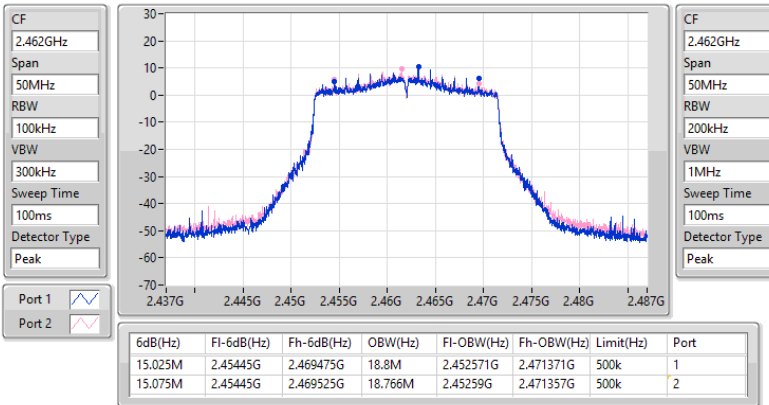

2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

01/09/2023

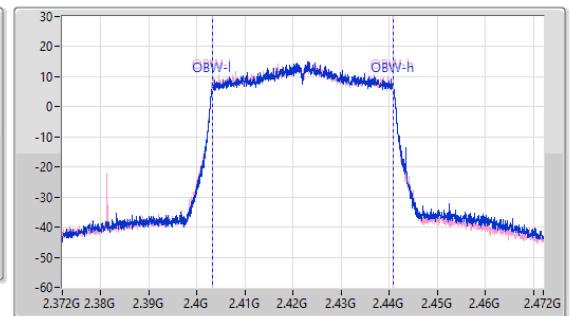
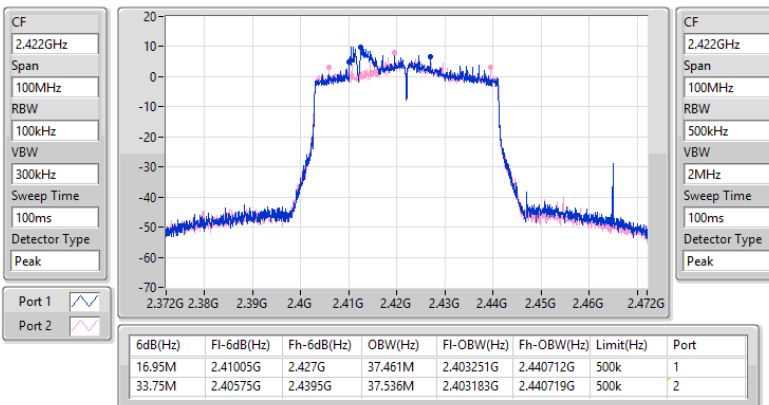


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

01/09/2023


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

01/09/2023

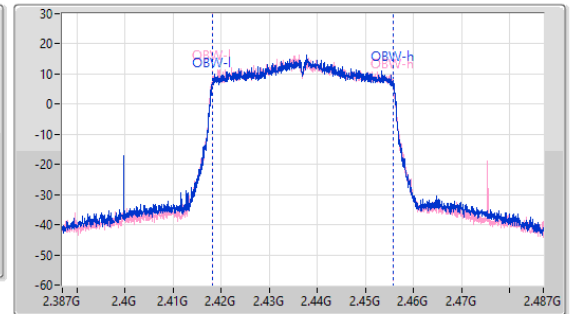
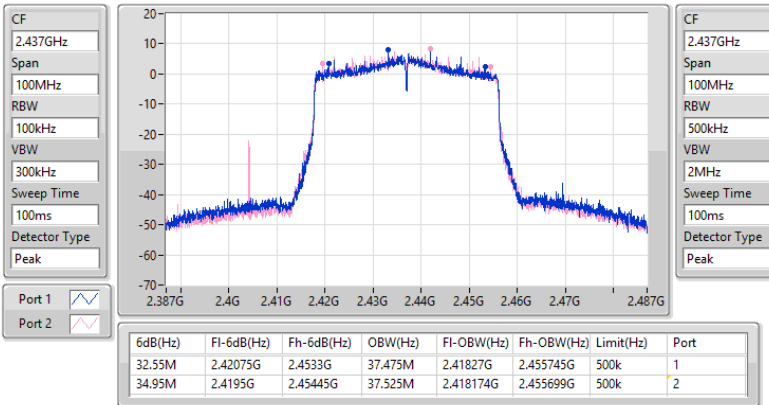


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

01/09/2023

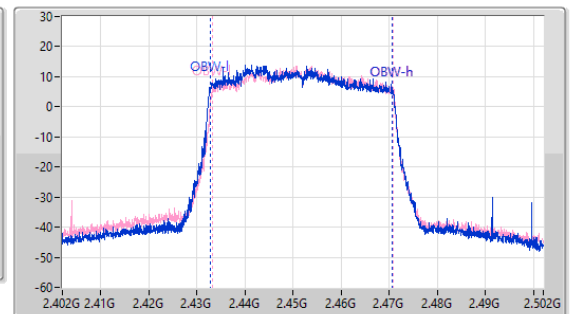
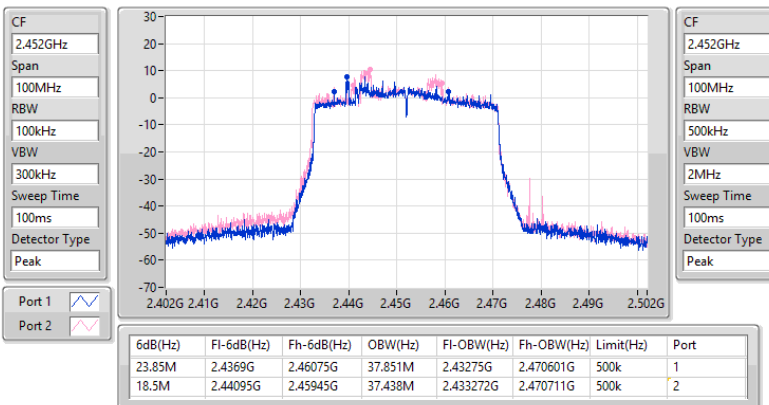


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2452MHz

01/09/2023





Average Power

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	28.85	0.76736
802.11g_Nss1,(6Mbps)_2TX	26.93	0.49317
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	26.12	0.40926
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.83	0.24155

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.90	22.29	22.36	25.34	30.00
2417MHz	Pass	3.90	25.03	24.89	27.97	30.00
2437MHz	Pass	3.90	26.03	25.65	28.85	30.00
2457MHz						
2462MHz	Pass	3.90	23.25	23.37	26.32	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.90	21.33	21.16	24.26	30.00
2417MHz	Pass	3.90	22.56	22.58	25.58	30.00
2437MHz	Pass	3.90	23.87	23.97	26.93	30.00
2457MHz						
2462MHz	Pass	3.90	22.03	21.86	24.96	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.91	20.01	20.00	23.02	29.09
2417MHz	Pass	6.91	22.04	22.04	25.05	29.09
2437MHz	Pass	6.91	23.19	23.02	26.12	29.09
2457MHz	Pass	6.91	20.82	21.10	23.97	29.09
2462MHz	Pass	6.91	19.03	19.10	22.08	29.09
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.91	19.97	19.87	22.93	29.09
2437MHz	Pass	6.91	20.76	20.88	23.83	29.09
2452MHz	Pass	6.91	18.88	18.96	21.93	29.09

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	4.07
802.11g_Nss1,(6Mbps)_2TX	0.21
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.32
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-5.22

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.91	-5.25	-5.20	-2.21	7.09
2437MHz	Pass	6.91	3.10	-2.36	4.07	7.09
2462MHz	Pass	6.91	-4.36	0.41	1.34	7.09
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.91	-4.48	-4.08	-2.57	7.09
2437MHz	Pass	6.91	-3.25	-1.89	0.21	7.09
2462MHz	Pass	6.91	-5.03	-4.16	-2.30	7.09
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.91	-4.69	-5.28	-2.54	7.09
2437MHz	Pass	6.91	-0.41	-2.47	0.32	7.09
2462MHz	Pass	6.91	-5.77	-5.30	-4.27	7.09
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.91	-5.50	-7.56	-5.22	7.09
2437MHz	Pass	6.91	-7.19	-7.37	-5.30	7.09
2452MHz	Pass	6.91	-8.13	-8.46	-6.55	7.09

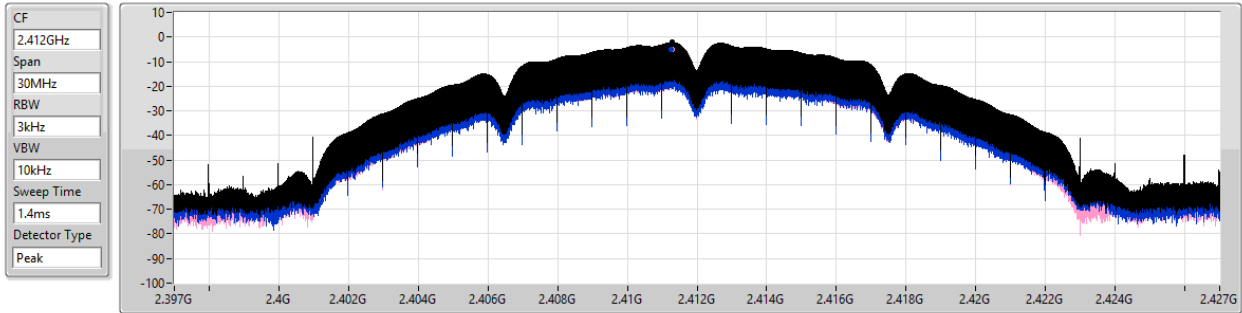
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

PSD

2412MHz

01/09/2023



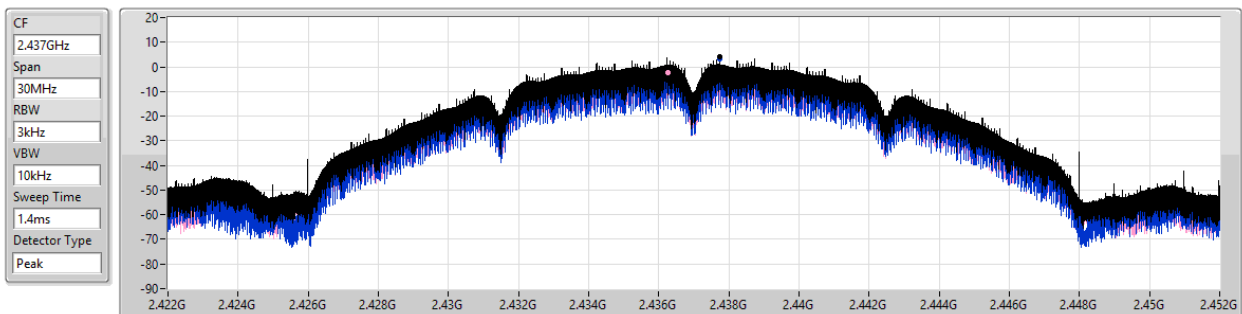
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.21	-2.21	-5.25	-5.20

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

PSD

2437MHz

01/09/2023



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.07	4.07	3.10	-2.36

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

PSD

2462MHz

01/09/2023

CF
2.462GHz

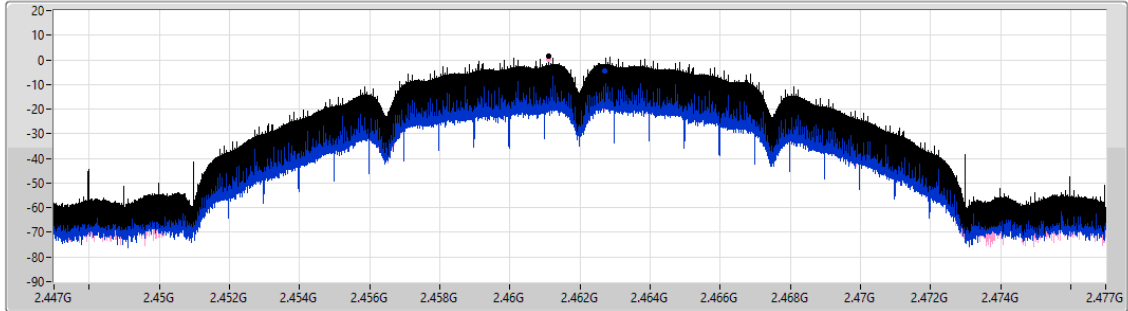
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
1.4ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.34	1.34	-4.36	0.41

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

PSD

2412MHz

01/09/2023

CF
2.412GHz

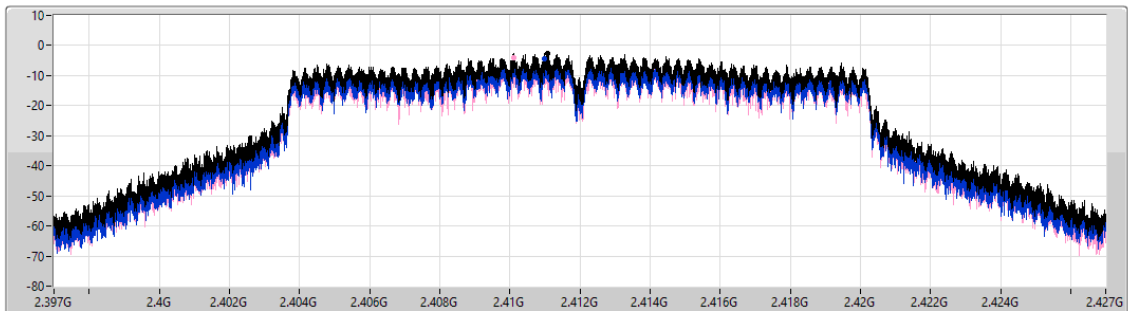
Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
1.4ms

Detector Type
Peak



Sum 

Port 1 

Port 2 

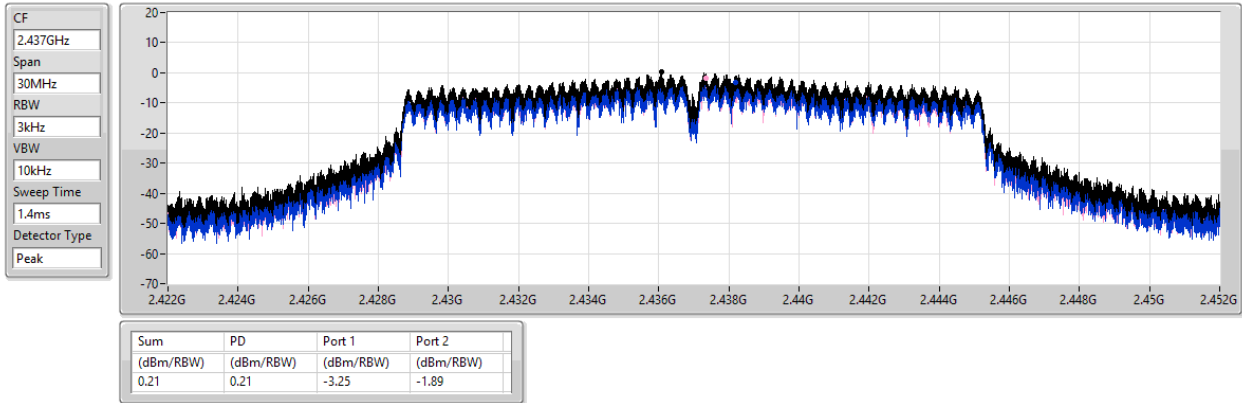
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.57	-2.57	-4.48	-4.08

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

PSD

2437MHz

01/09/2023

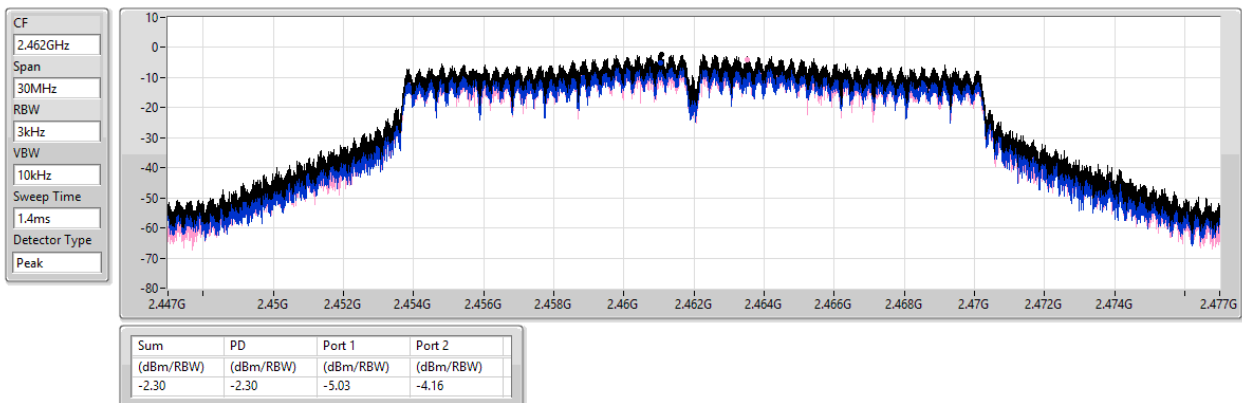


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

01/09/2023

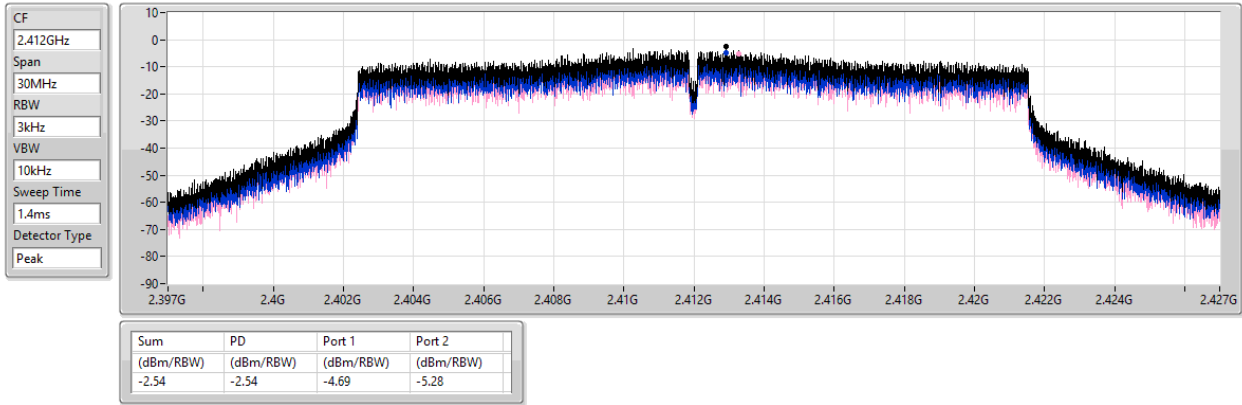


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

01/09/2023

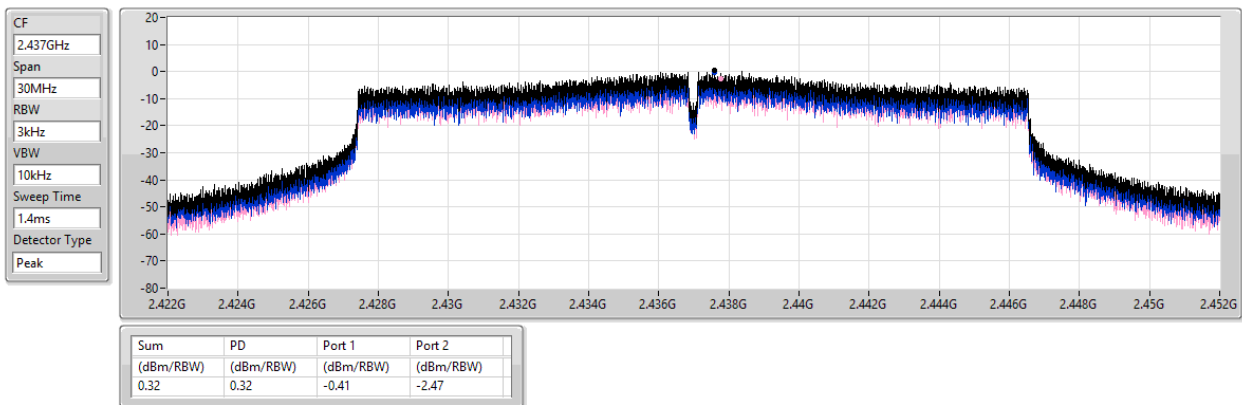


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

01/09/2023

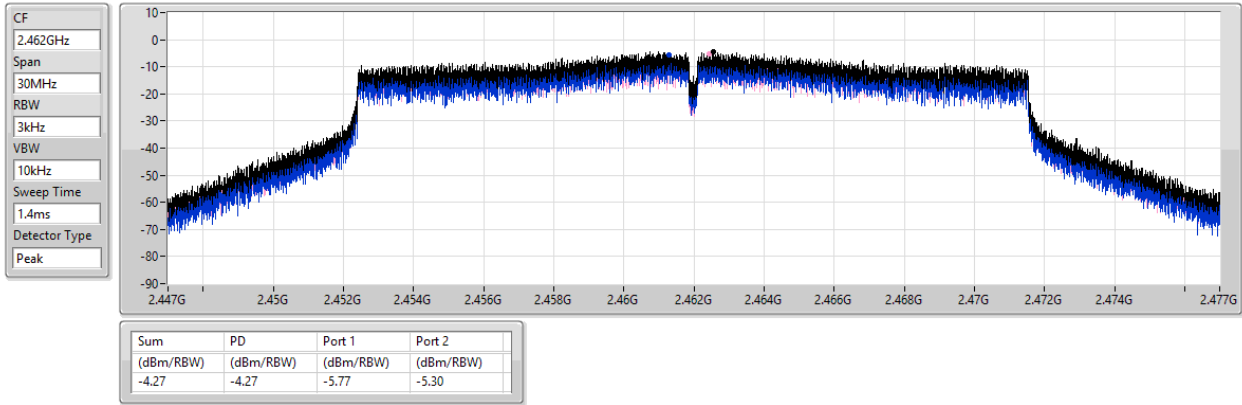


2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

01/09/2023

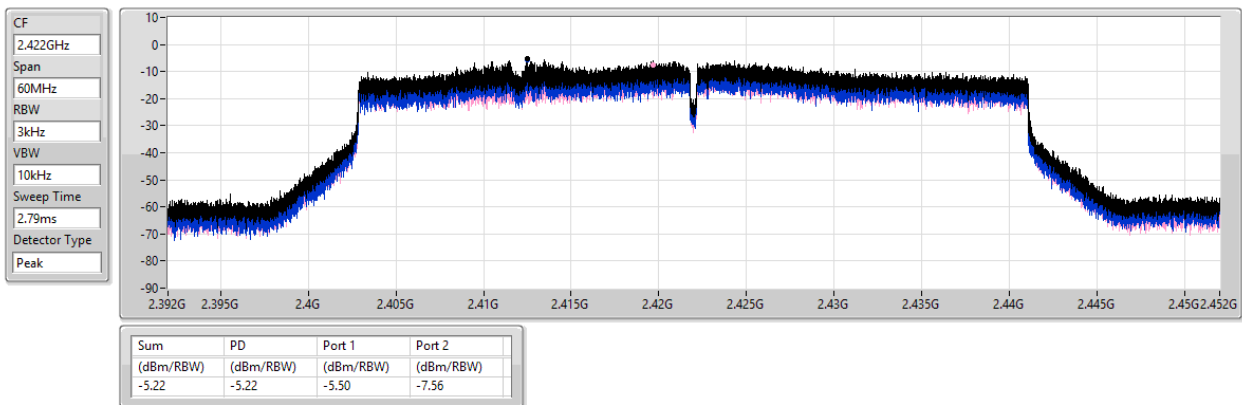


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

01/09/2023

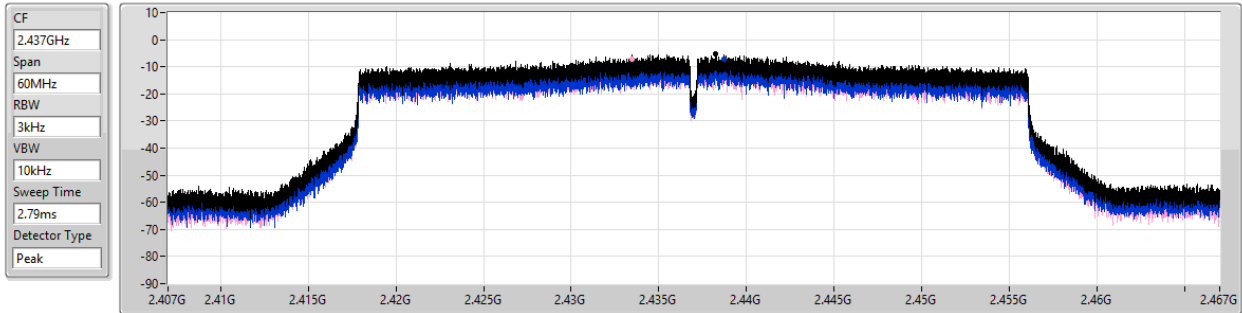


2.4-2.4835GHz_802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

01/09/2023



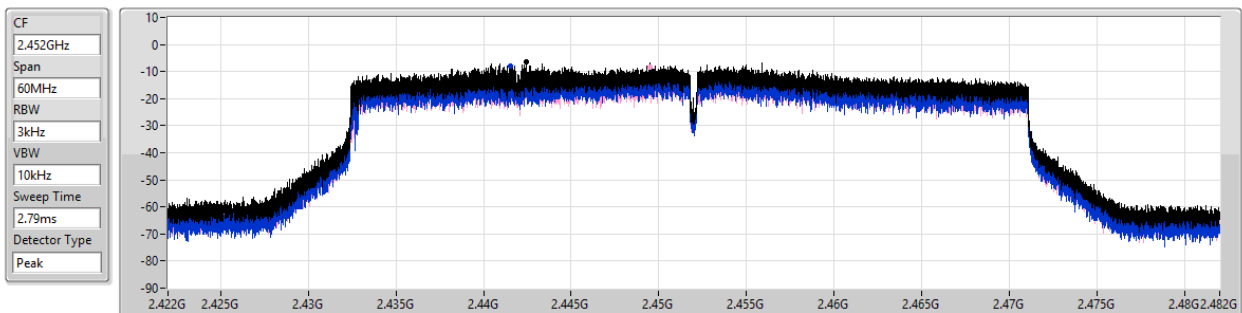
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.30	-5.30	-7.19	-7.37

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

PSD

2452MHz

01/09/2023



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.55	-6.55	-8.13	-8.46



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	2.43891G	17.42	-12.58	1.85323G	-50.26	2.39992G	-37.90	2.4G	-44.59	2.50678G	-47.12	21.62291G	-43.79	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43824G	15.87	-14.13	2.30059G	-50.01	2.39992G	-28.92	2.4G	-27.41	2.5015G	-47.34	21.54143G	-42.62	1
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43574G	14.56	-15.44	2.09089G	-49.48	2.39992G	-27.32	2.4G	-26.68	2.50606G	-46.94	21.82519G	-44.04	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42639G	11.39	-18.61	107.86M	-49.61	2.4G	-35.48	2.4G	-33.19	2.5131G	-44.86	21.48027G	-43.06	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43891G	17.42	-12.58	2.02681G	-49.69	2.3996G	-40.70	2.4G	-39.89	2.50974G	-46.30	21.68472G	-44.18	1
2412MHz	Pass	2.43891G	17.42	-12.58	1.85323G	-50.26	2.39992G	-37.90	2.4G	-44.59	2.50678G	-47.12	21.62291G	-43.79	2
2417MHz															
2437MHz	Pass	2.43891G	17.42	-12.58	2.30175G	-49.73	2.39752G	-39.93	2.4G	-46.72	2.50854G	-46.33	21.46276G	-43.48	1
2437MHz	Pass	2.43891G	17.42	-12.58	2.30991G	-49.41	2.39752G	-39.55	2.4G	-46.03	2.50302G	-45.93	21.533G	-43.52	2
2457MHz															
2462MHz	Pass	2.43891G	17.42	-12.58	2.16661G	-49.56	2.39664G	-46.45	2.4G	-50.13	2.50006G	-43.15	21.47119G	-43.82	1
2462MHz	Pass	2.43891G	17.42	-12.58	2.30175G	-49.33	2.39304G	-46.06	2.4G	-48.29	2.5059G	-46.00	21.54986G	-43.64	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	15.87	-14.13	2.30059G	-50.01	2.39992G	-28.92	2.4G	-27.41	2.5015G	-47.34	21.54143G	-42.62	1
2412MHz	Pass	2.43824G	15.87	-14.13	2.30991G	-48.39	2.4G	-27.92	2.4G	-27.53	2.50054G	-47.01	21.80272G	-43.15	2
2417MHz															
2437MHz	Pass	2.43824G	15.87	-14.13	2.03147G	-49.97	2.39888G	-39.63	2.4G	-42.12	2.50086G	-46.43	21.43747G	-43.41	1
2437MHz	Pass	2.43824G	15.87	-14.13	2.30874G	-49.92	2.39912G	-38.09	2.4G	-39.47	2.50046G	-46.37	21.61167G	-43.51	2
2457MHz															
2462MHz	Pass	2.43824G	15.87	-14.13	2.09555G	-49.21	2.3948G	-46.13	2.4G	-49.43	2.50126G	-44.57	21.99658G	-42.82	1
2462MHz	Pass	2.43824G	15.87	-14.13	48.64M	-49.87	2.39952G	-45.57	2.4G	-47.14	2.5123G	-46.10	21.60324G	-43.93	2
802.11ax HEW20-BF_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	14.56	-15.44	2.09089G	-49.48	2.39992G	-27.32	2.4G	-26.68	2.50606G	-46.94	21.82519G	-44.04	1
2412MHz	Pass	2.43574G	14.56	-15.44	2.13982G	-50.33	2.39992G	-28.35	2.4G	-28.78	2.50158G	-46.41	21.48243G	-43.06	2
2417MHz															
2437MHz	Pass	2.43574G	14.56	-15.44	2.30059G	-49.50	2.4G	-41.42	2.4G	-41.32	2.50302G	-28.60	21.48524G	-43.58	1
2437MHz	Pass	2.43574G	14.56	-15.44	2.30292G	-50.18	2.39568G	-42.05	2.4G	-44.68	2.5147G	-45.97	21.71G	-43.56	2
2457MHz															
2462MHz	Pass	2.43574G	14.56	-15.44	1.94177G	-49.62	2.39104G	-47.70	2.4G	-49.20	2.5227G	-46.79	21.52738G	-43.69	1
2462MHz	Pass	2.43574G	14.56	-15.44	1.91614G	-49.71	2.39944G	-46.14	2.4G	-48.72	2.50022G	-43.92	21.45714G	-43.30	2
802.11ax HEW40-BF_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42639G	11.39	-18.61	107.86M	-49.61	2.4G	-35.48	2.4G	-33.19	2.5131G	-44.86	21.48027G	-43.06	1
2422MHz	Pass	2.42639G	11.39	-18.61	2.30168G	-49.28	2.4G	-34.95	2.4G	-33.42	2.55022G	-49.17	21.53356G	-42.75	2
2437MHz	Pass	2.42639G	11.39	-18.61	2.30512G	-49.25	2.3984G	-41.94	2.4G	-42.80	2.50158G	-37.29	21.57843G	-43.33	1
2437MHz	Pass	2.42639G	11.39	-18.61	44.89M	-48.95	2.3984G	-43.32	2.4G	-44.31	2.5035G	-48.21	21.51393G	-43.50	2
2452MHz	Pass	2.42639G	11.39	-18.61	2.11161G	-49.20	2.39648G	-37.67	2.4G	-48.18	2.51566G	-47.45	21.63172G	-42.52	1
2452MHz	Pass	2.42639G	11.39	-18.61	2.30626G	-49.11	2.39008G	-42.63	2.4G	-48.29	2.5187G	-47.48	21.50271G	-43.29	2

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

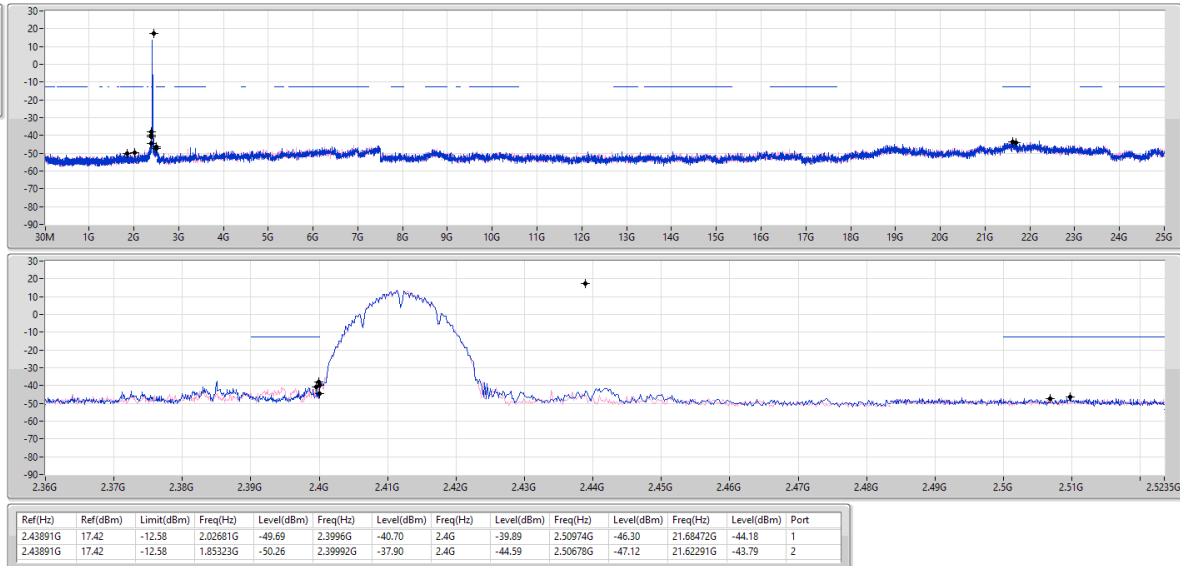
CSEndB

2412MHz

01/09/2023

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

Port 1
Port 2



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

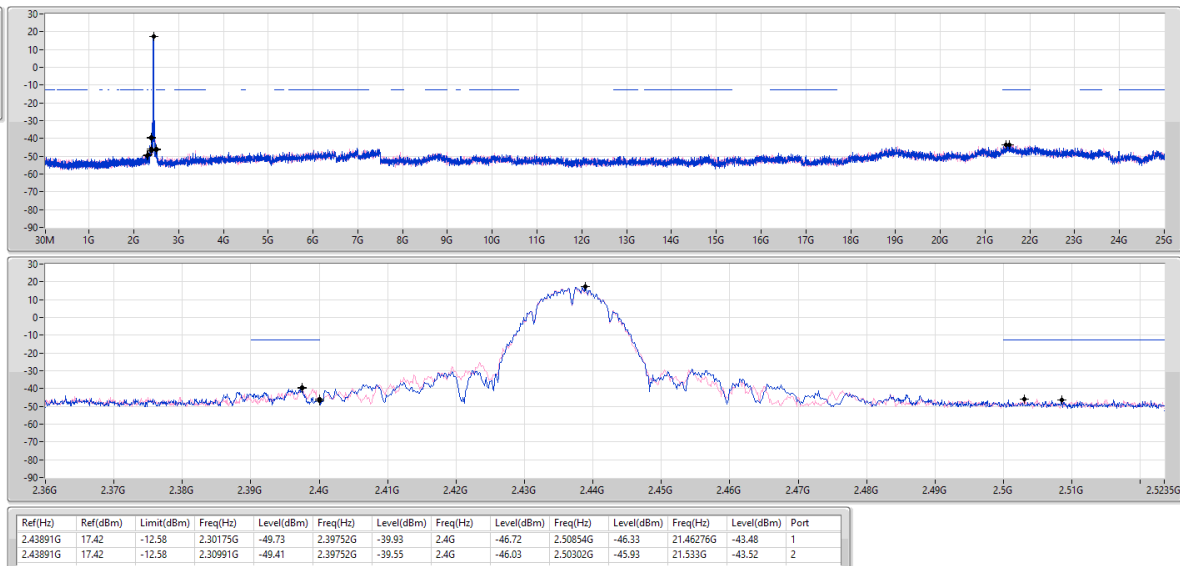
CSEndB

2437MHz

01/09/2023

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

Port 1
Port 2



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

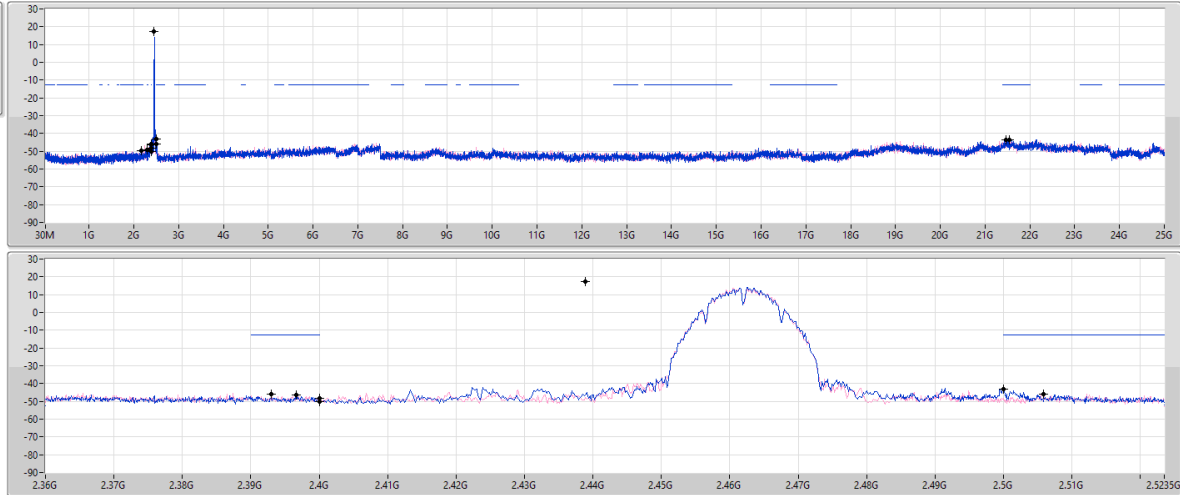
CSEndB

2462MHz

01/09/2023

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

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
2.43891G	17.42	-12.58	2.16661G	-49.56	2.39664G	-46.45	2.4G	-50.13	2.50006G	-43.15	2.147119G	-43.82	1
2.43891G	17.42	-12.58	2.30175G	-49.33	2.39304G	-46.06	2.4G	-48.29	2.5059G	-46.00	2.154986G	-43.64	2

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

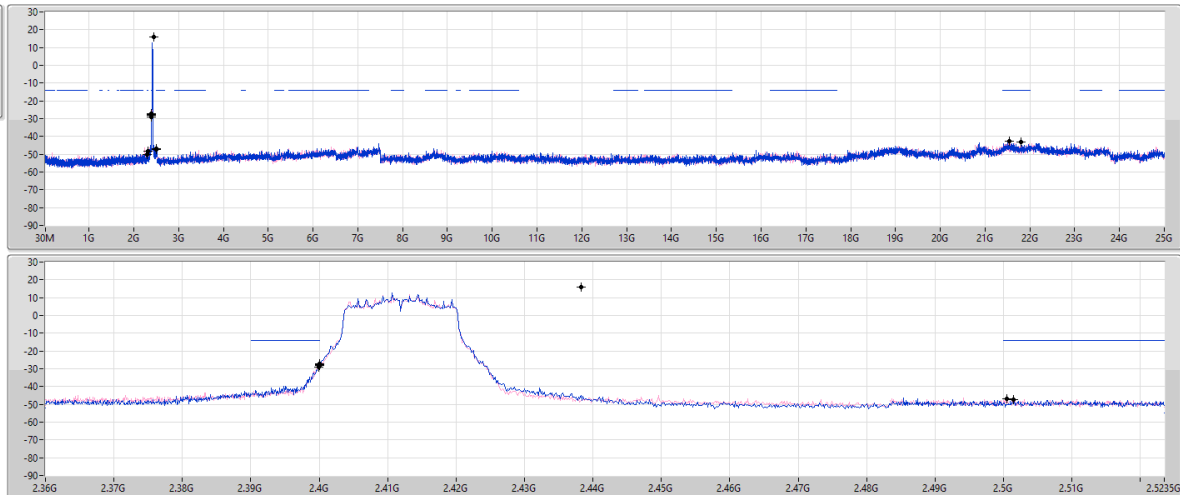
CSEndB

2412MHz

01/09/2023

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

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
2.43824G	15.87	-14.13	2.30059G	-50.01	2.39992G	-28.92	2.4G	-27.41	2.5015G	-47.34	2.154143G	-42.62	1
2.43824G	15.87	-14.13	2.30991G	-48.39	2.4G	-27.92	2.4G	-27.53	2.50054G	-47.01	2.180272G	-43.15	2

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

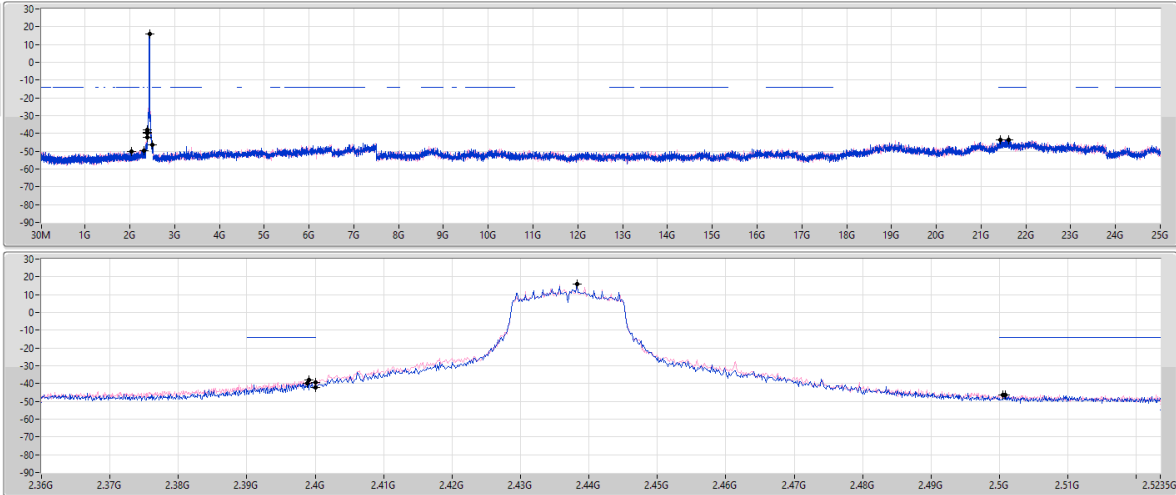
CSEndB

2437MHz

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

01/09/2023

Port 1
Port 2



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

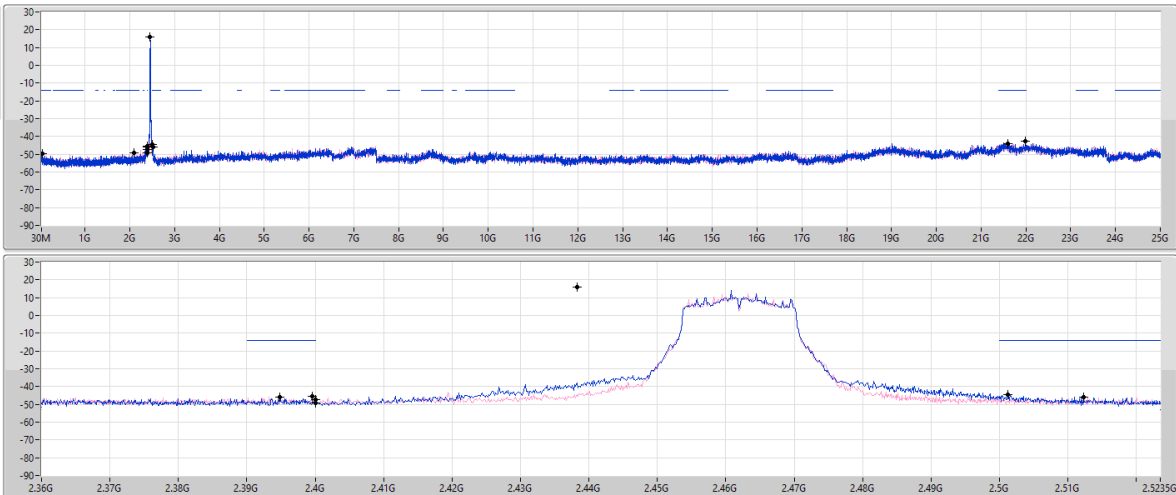
CSEndB

2462MHz

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

01/09/2023

Port 1
Port 2



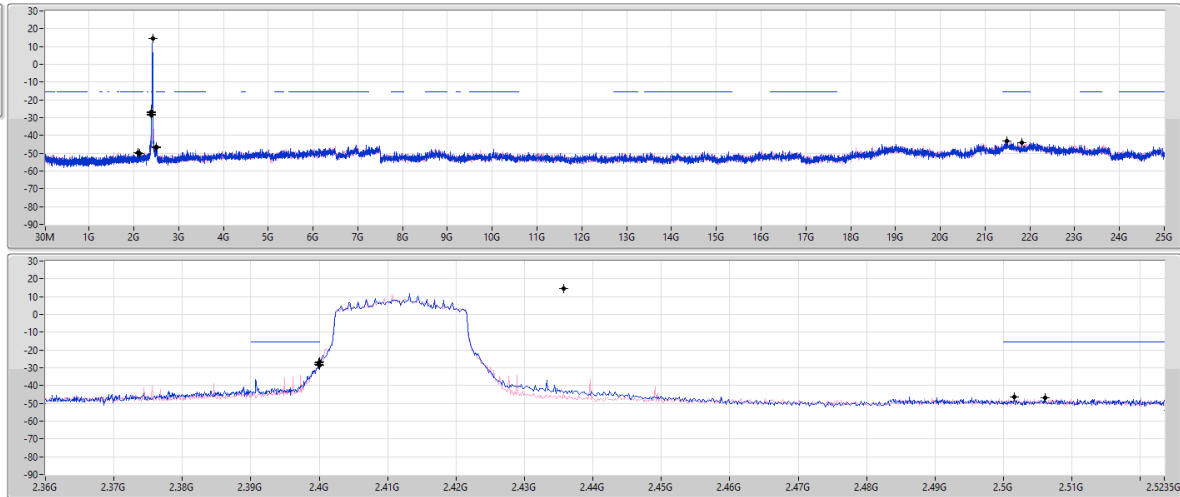
2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

CSEndB

2412MHz

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

01/09/2023
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
2.43574G	14.56	-15.44	2.09089G	-49.48	2.39992G	-27.32	2.4G	-26.68	2.50606G	-46.94	21.82519G	-44.04	1
2.43574G	14.56	-15.44	2.13982G	-50.33	2.39992G	-28.35	2.4G	-28.78	2.50158G	-46.41	21.48243G	-43.06	2

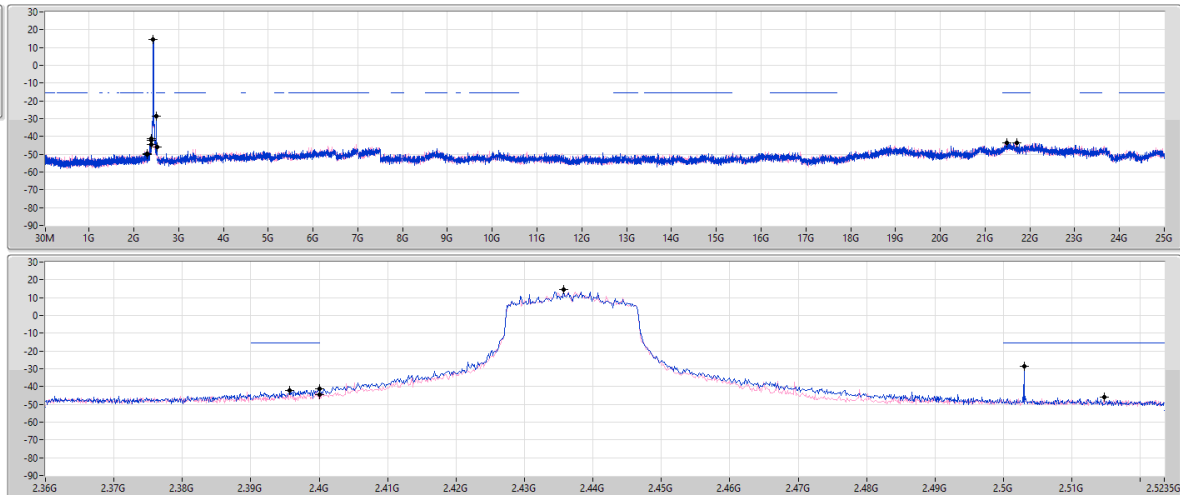
2.4-2.4835GHz_802.11ax HEW20-BF_Nss1,(MCS0)_2TX

CSEndB

2437MHz

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

01/09/2023
Port 1
Port 2

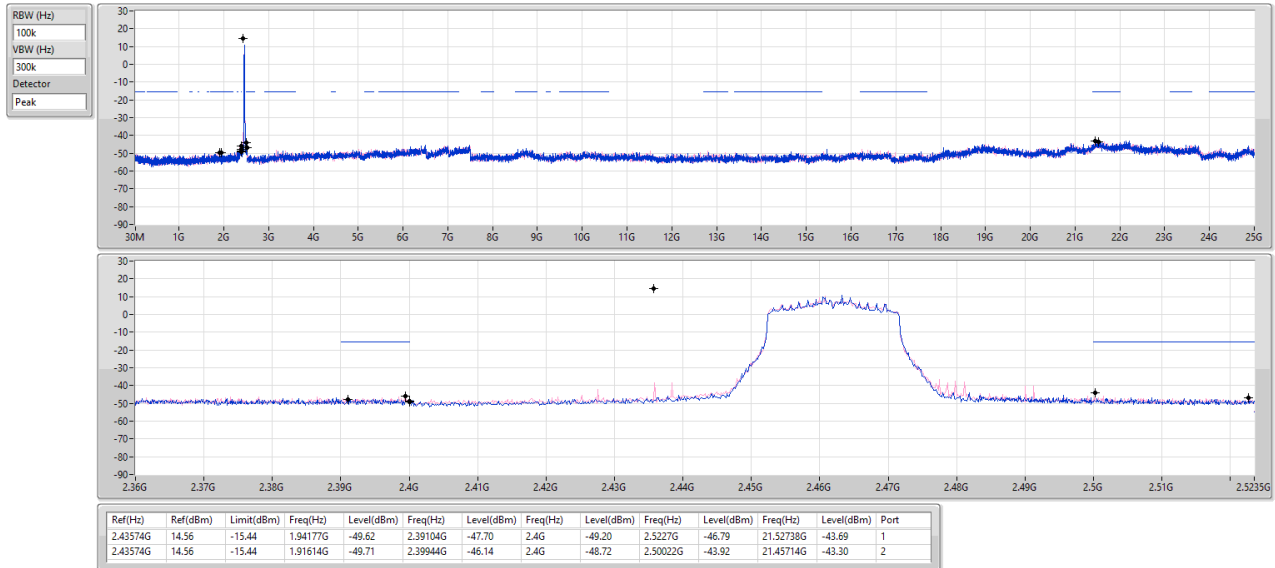


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	14.56	-15.44	2.30059G	-49.50	2.4G	-41.42	2.4G	-41.32	2.50302G	-28.60	21.48524G	-43.58	1
2.43574G	14.56	-15.44	2.30292G	-50.18	2.39568G	-42.05	2.4G	-44.68	2.5147G	-45.97	21.71G	-43.56	2

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

CSEndB

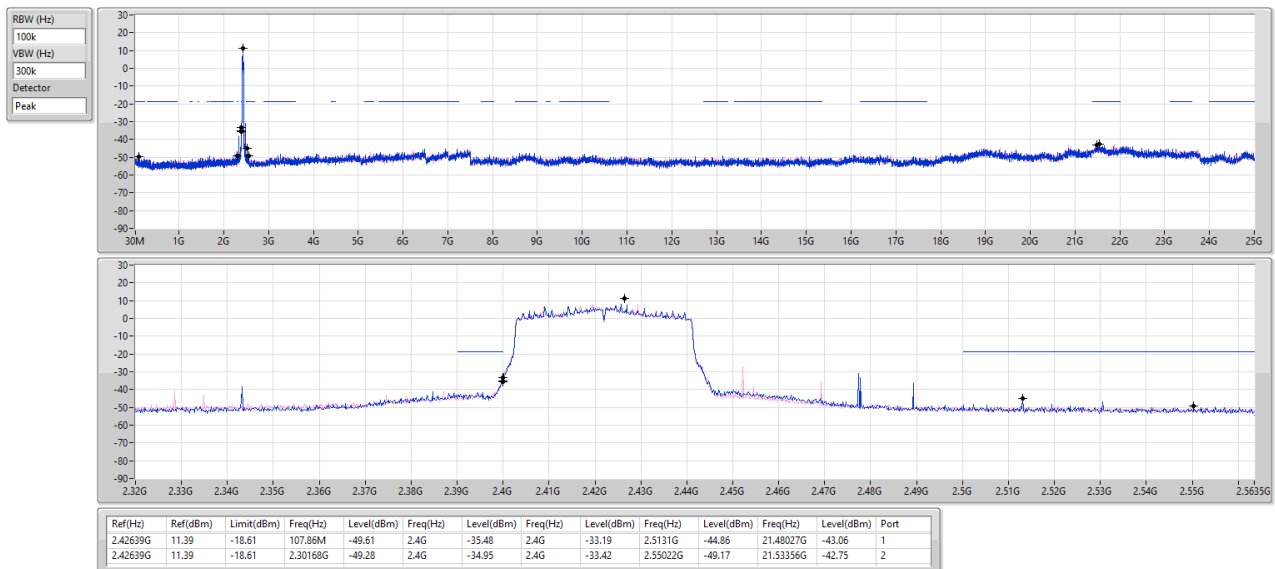
2462MHz



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

CSEndB

2422MHz



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

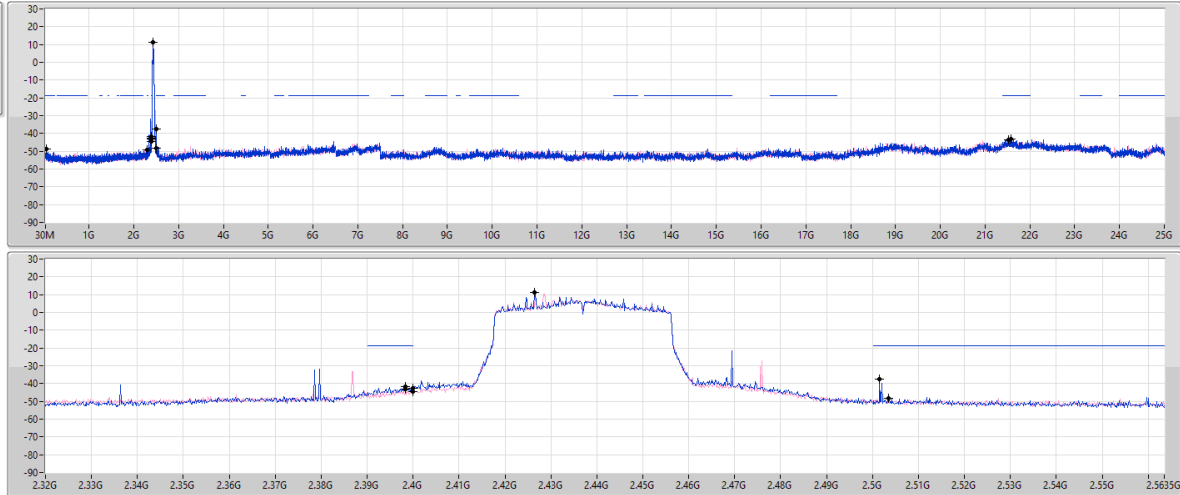
CSEndB

2437MHz

01/09/2023

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

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
2.42639G	11.39	-18.61	2.30512G	-49.25	2.3984G	-41.94	2.4G	-42.80	2.50158G	-37.29	2.57843G	-43.33	1
2.42639G	11.39	-18.61	44.89M	-48.95	2.3984G	-43.32	2.4G	-44.31	2.5035G	-48.21	2.51393G	-43.50	2

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

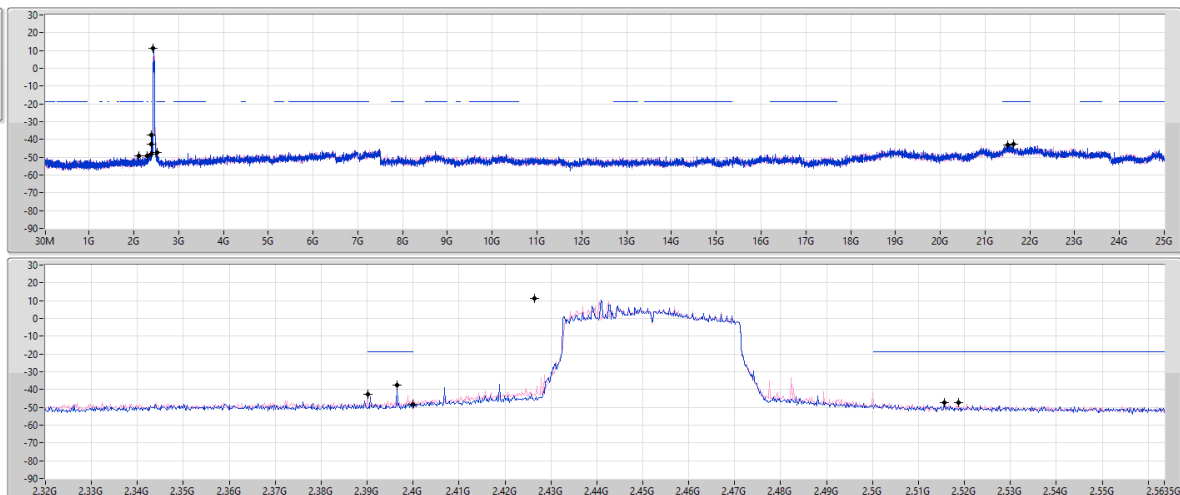
CSEndB

2452MHz

01/09/2023

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

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
2.42639G	11.39	-18.61	2.11161G	-49.20	2.39648G	-37.67	2.4G	-48.18	2.51566G	-47.45	2.63172G	-42.52	1
2.42639G	11.39	-18.61	2.30626G	-49.11	2.39008G	-42.63	2.4G	-48.29	2.5187G	-47.48	2.50271G	-43.29	2



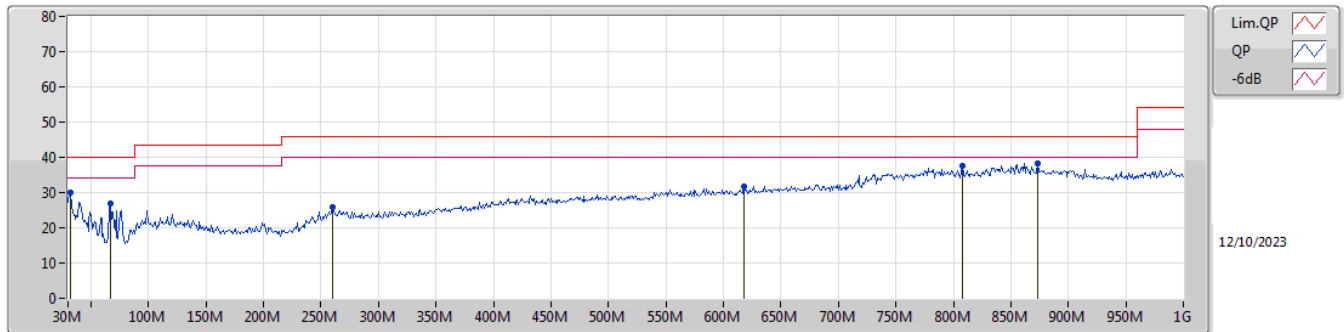
Radiated Emissions below 1GHz

Appendix F.1

Summary

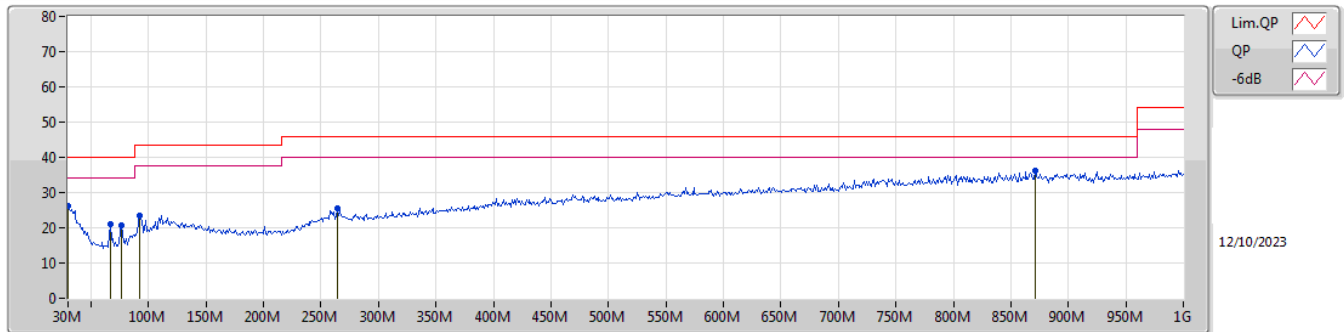
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	872.93M	38.14	46.00	-7.86	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	31.94M	30.03	40.00	-9.97	-7.36	3	Vertical	247	1.00	-	37.39	23.16	1.07	31.59		
PK	66.86M	26.73	40.00	-13.27	-18.09	3	Vertical	188	1.00	-	44.82	12.31	1.52	31.92		
PK	259.89M	25.76	46.00	-20.24	-9.61	3	Vertical	235	1.00	-	35.37	19.50	2.95	32.06		
PK	617.82M	31.69	46.00	-14.31	-3.29	3	Vertical	0	1.50	-	34.98	24.46	4.78	32.53		
PK	807.94M	37.49	46.00	-8.51	-1.36	3	Vertical	186	1.25	-	38.85	25.68	5.59	32.63		
PK	872.93M	38.14	46.00	-7.86	-0.55	3	Vertical	128	1.50	"Worst"	38.69	26.13	5.87	32.55		

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	30M	26.15	40.00	-13.85	-6.39	3	Horizontal	37	1.25	-	32.54	24.11	1.04	31.54		
PK	66.86M	21.14	40.00	-18.86	-18.09	3	Horizontal	127	3.00	-	39.23	12.31	1.52	31.92		
PK	76.56M	20.70	40.00	-19.30	-17.79	3	Horizontal	70	1.25	-	38.49	12.54	1.62	31.95		
PK	92.08M	23.48	43.50	-20.02	-14.92	3	Horizontal	50	2.00	-	38.40	15.35	1.72	31.99		
PK	264.74M	25.35	46.00	-20.65	-9.85	3	Horizontal	269	1.00	-	35.20	19.23	2.98	32.06		
PK	870.99M	36.37	46.00	-9.63	-0.58	3	Horizontal	199	1.00	"Worst"	36.95	26.11	5.86	32.55		

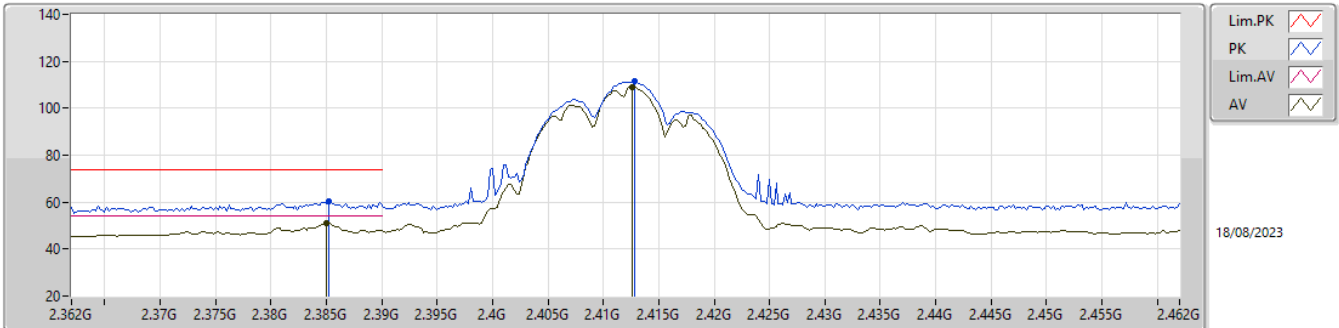


Summary

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	2.3898G	52.92	54.00	-1.08	3	Horizontal	299	1.80	-

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

2412MHz_TX

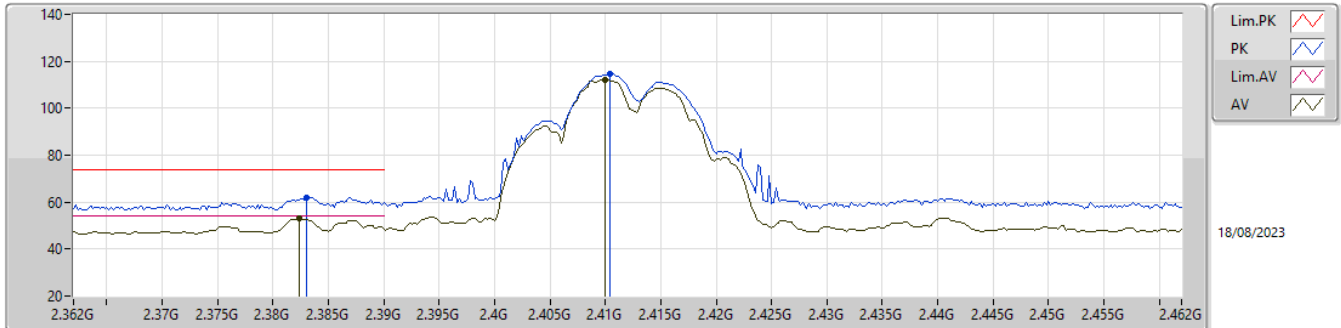


EUT_Y_2TX
Setting 22.5
04-M-A-4

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	2.3852G	60.18	74.00	-13.82	29.38	3	Vertical	330	2.54	-	27.61	3.19	-				
AV	2.385G	51.16	54.00	-2.84	20.36	3	Vertical	330	2.54	-	27.61	3.19	-				
PK	2.4128G	111.42	Inf	-Inf	80.51	3	Vertical	330	2.54	-	27.70	3.21	-				
AV	2.4126G	109.14	Inf	-Inf	78.23	3	Vertical	330	2.54	-	27.70	3.21	-				

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

2412MHz_TX

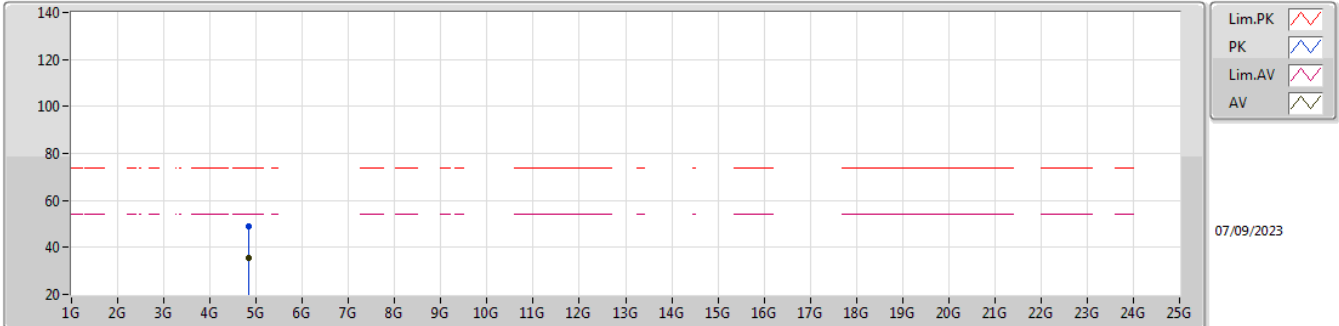


EUT_Y_2TX
Setting 22.5
04-M-A-4

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	2.383G	62.07	74.00	-11.93	31.28	3	Horizontal	276	2.58	-	27.60	3.19	-				
AV	2.3824G	52.91	54.00	-1.09	22.13	3	Horizontal	276	2.58	-	27.59	3.19	-				
PK	2.4104G	114.48	Inf	-Inf	83.57	3	Horizontal	276	2.58	-	27.70	3.21	-				
AV	2.41G	112.28	Inf	-Inf	81.37	3	Horizontal	276	2.58	-	27.70	3.21	-				

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

2412MHz_TX

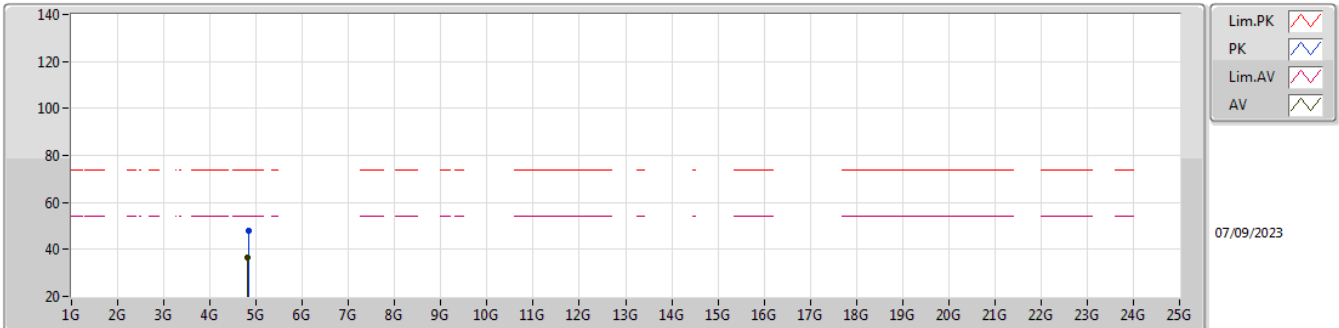


EUT Y_2TX
Setting 22.5
03-L-M-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.8309G	49.05	74.00	-24.95	43.83	3	Vertical	111	1.80	-	33.40	6.52	34.70			
AV	4.83666G	35.62	54.00	-18.38	30.40	3	Vertical	111	1.80	-	33.40	6.52	34.70			

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

2412MHz_TX

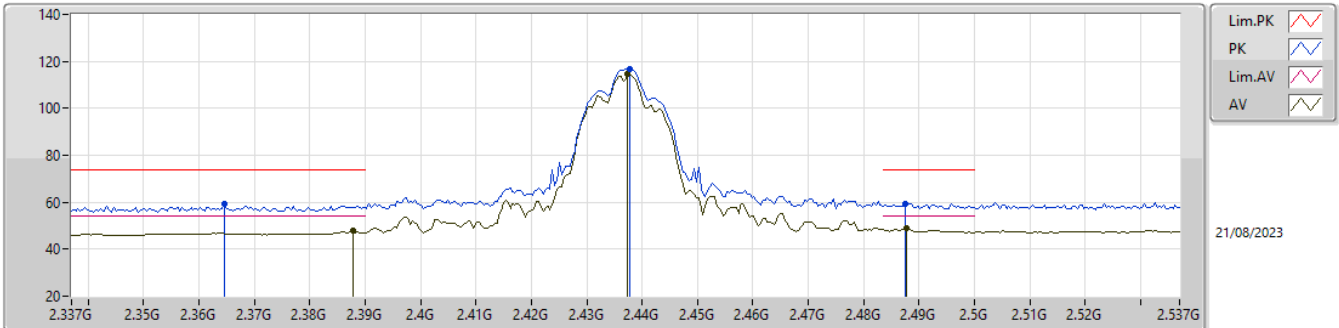


EUT Y_2TX
Setting 22.5
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82814G	47.85	74.00	-26.15	42.64	3	Horizontal	297	2.23	-	33.40	6.51	34.70			
AV	4.82388G	36.54	54.00	-17.46	31.32	3	Horizontal	297	2.23	-	33.40	6.51	34.69			

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

2437MHz_TX

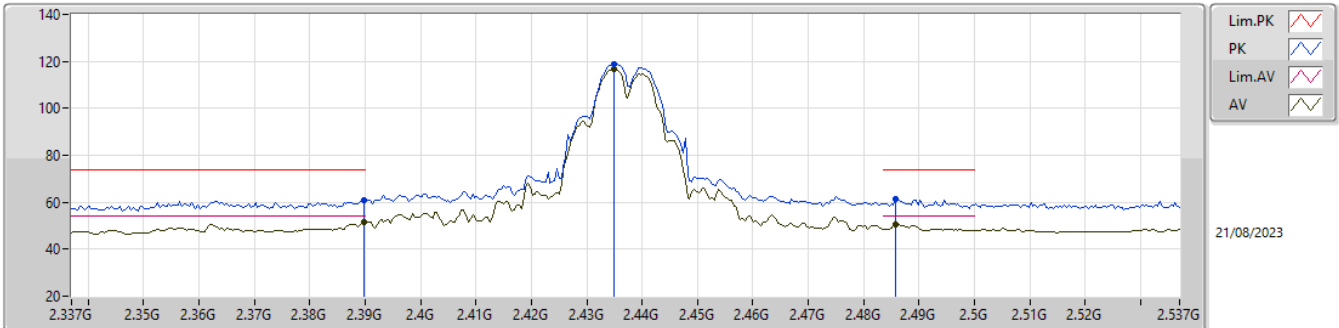


EUT Y_2TX
Setting 26
04-M-A-4

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	2.3646G	59.23	74.00	-14.77	28.56	3	Vertical	338	2.80	-	27.49	3.18	-			
AV	2.3878G	47.82	54.00	-6.18	17.00	3	Vertical	338	2.80	-	27.63	3.19	-			
PK	2.4378G	116.97	Inf	-Inf	86.03	3	Vertical	338	2.80	-	27.70	3.24	-			
AV	2.4374G	114.59	Inf	-Inf	83.65	3	Vertical	338	2.80	-	27.70	3.24	-			
PK	2.4874G	59.30	74.00	-14.70	28.16	3	Vertical	338	2.80	-	27.85	3.29	-			
AV	2.4878G	48.87	54.00	-5.13	17.73	3	Vertical	338	2.80	-	27.85	3.29	-			

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

2437MHz_TX

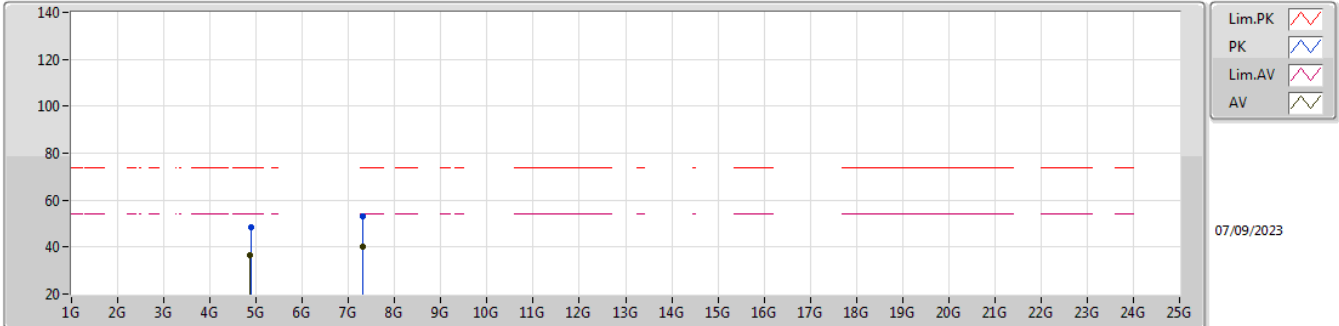


EUT_Y_2TX
Setting 26
04-M-A-4

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	60.69	74.00	-13.31	29.86	3	Horizontal	290	2.84	-	27.64	3.19	-			
AV	2.3898G	51.48	54.00	-2.52	20.65	3	Horizontal	290	2.84	-	27.64	3.19	-			
PK	2.435G	118.78	Inf	-Inf	87.84	3	Horizontal	290	2.84	-	27.70	3.24	-			
AV	2.435G	116.48	Inf	-Inf	85.54	3	Horizontal	290	2.84	-	27.70	3.24	-			
PK	2.4858G	61.18	74.00	-12.82	30.05	3	Horizontal	290	2.84	-	27.84	3.29	-			
AV	2.4858G	50.72	54.00	-3.28	19.59	3	Horizontal	290	2.84	-	27.84	3.29	-			

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

2437MHz_TX

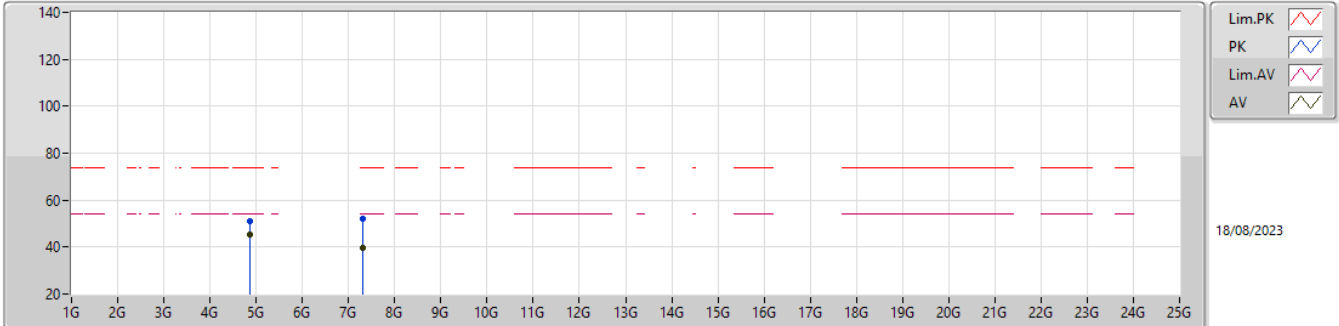


EUT Y_2TX
Setting 26
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87816G	48.33	74.00	-25.67	42.95	3	Vertical	309	2.16	-	33.57	6.54	34.73			
AV	4.87396G	36.77	54.00	-17.23	31.42	3	Vertical	309	2.16	-	33.54	6.54	34.73			
PK	7.30184G	52.87	74.00	-21.13	42.75	3	Vertical	103	1.80	-	36.80	8.70	35.38			
AV	7.30296G	40.43	54.00	-13.57	30.30	3	Vertical	103	1.80	-	36.81	8.70	35.38			

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

2437MHz_TX

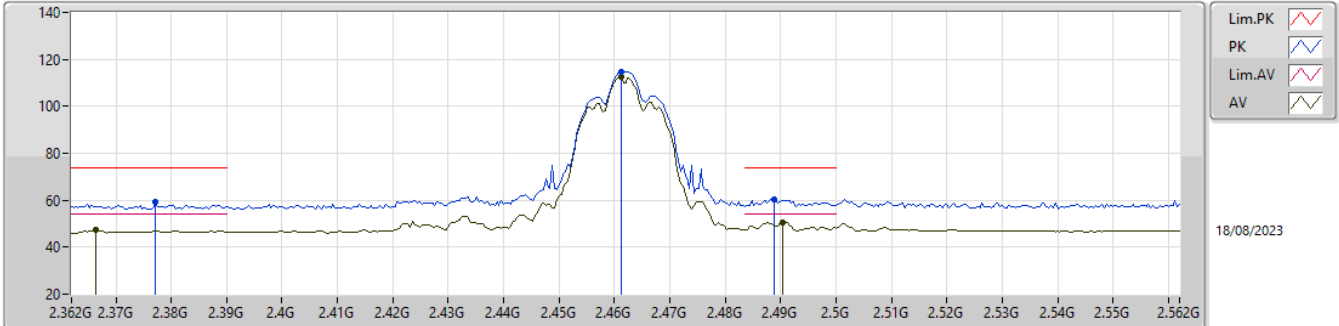


EUT_Y_2TX
Setting 28
04-M-A-4

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	4.87388G	51.12	74.00	-22.88	45.58	3	Horizontal	318	3.00	-	32.75	5.30	32.51				
AV	4.87375G	45.58	54.00	-8.42	40.04	3	Horizontal	318	3.00	-	32.75	5.30	32.51				
PK	7.3092G	52.13	74.00	-21.87	41.61	3	Horizontal	175	2.97	-	37.70	6.91	34.09				
AV	7.31302G	39.59	54.00	-14.41	29.08	3	Horizontal	175	2.97	-	37.70	6.91	34.10				

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

2462MHz_TX

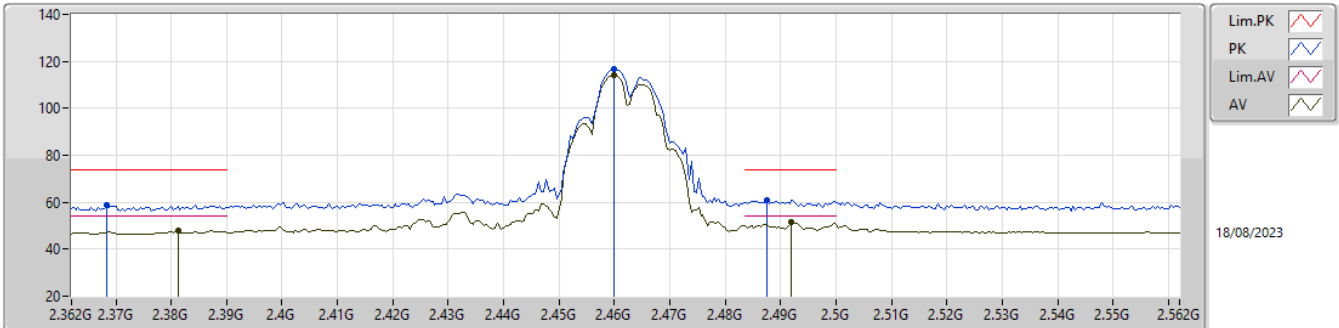


EUT_Y_2TX
Setting 23.5
04-M-A-4

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	2.3772G	59.10	74.00	-14.90	28.35	3	Vertical	353	3.00	-	27.56	3.19	-			
AV	2.3664G	47.26	54.00	-6.74	16.58	3	Vertical	353	3.00	-	27.50	3.18	-			
PK	2.4612G	112.43	Inf	-Inf	83.80	3	Vertical	353	3.00	-	27.74	3.26	-			
AV	2.4612G	112.43	Inf	-Inf	81.43	3	Vertical	353	3.00	-	27.74	3.26	-			
PK	2.4888G	60.15	74.00	-13.85	29.00	3	Vertical	353	3.00	-	27.86	3.29	-			
AV	2.4904G	50.75	54.00	-3.25	19.60	3	Vertical	353	3.00	-	27.86	3.29	-			

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

2462MHz_TX

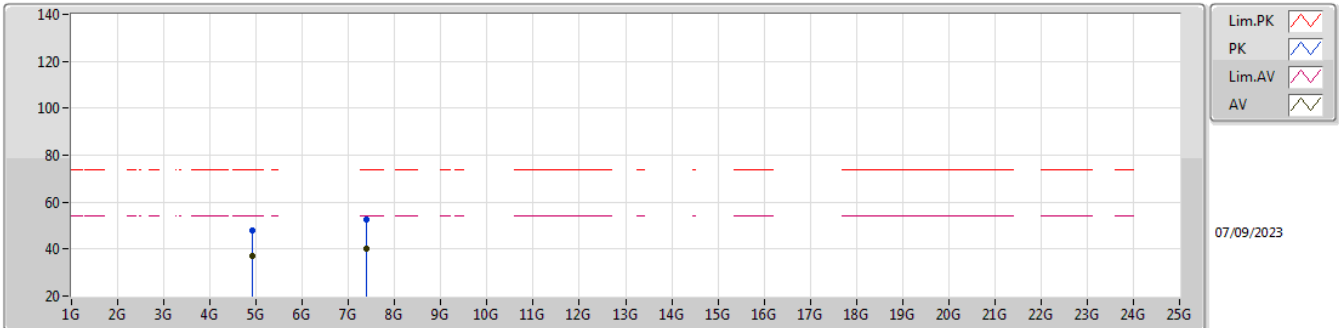


EUT_Y_2TX
Setting 23.5
04-M-A-4

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	2.3684G	58.83	74.00	-15.17	28.14	3	Horizontal	296	1.93	-	27.51	3.18	-			
AV	2.3812G	47.76	54.00	-6.24	16.98	3	Horizontal	296	1.93	-	27.59	3.19	-			
PK	2.46G	116.47	Inf	-Inf	85.47	3	Horizontal	296	1.93	-	27.74	3.26	-			
AV	2.46G	114.32	Inf	-Inf	83.32	3	Horizontal	296	1.93	-	27.74	3.26	-			
PK	2.4876G	60.96	74.00	-13.04	29.82	3	Horizontal	296	1.93	-	27.85	3.29	-			
AV	2.492G	51.51	54.00	-2.49	20.35	3	Horizontal	296	1.93	-	27.87	3.29	-			

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

2462MHz_TX

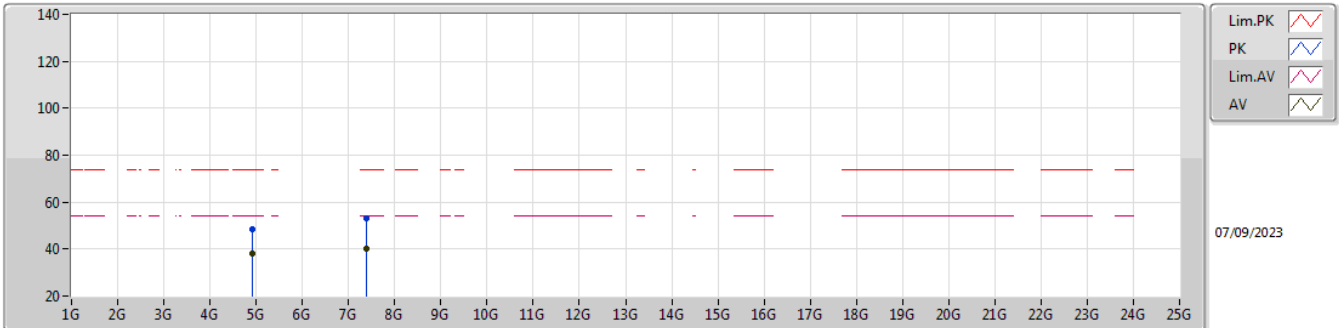


EUT Y_2TX
Setting 23.5
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.91452G	47.69	74.00	-26.31	42.22	3	Vertical	0	1.01	-	33.67	6.56	34.76			
AV	4.92392G	36.98	54.00	-17.02	31.54	3	Vertical	0	1.01	-	33.65	6.56	34.77			
PK	7.38012G	52.40	74.00	-21.60	42.14	3	Vertical	128	1.80	-	36.90	8.70	35.34			
AV	7.38824G	40.30	54.00	-13.70	30.03	3	Vertical	128	1.80	-	36.90	8.70	35.33			

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

2462MHz_TX

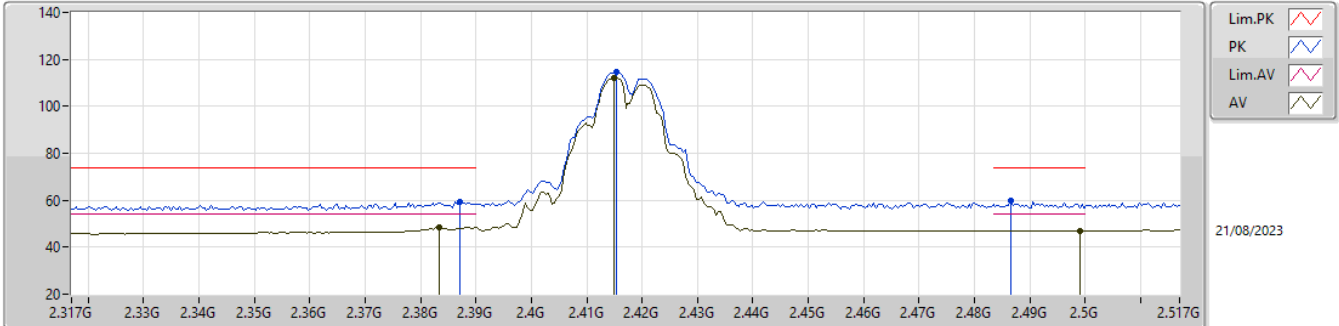


EUT Y_2TX
Setting 23.5
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92368G	48.40	74.00	-25.60	42.96	3	Horizontal	305	2.29	-	33.65	6.56	34.77			
AV	4.92392G	37.94	54.00	-16.06	32.50	3	Horizontal	305	2.29	-	33.65	6.56	34.77			
PK	7.37656G	53.34	74.00	-20.66	43.08	3	Horizontal	28	1.29	-	36.90	8.70	35.34			
AV	7.37748G	40.18	54.00	-13.82	29.92	3	Horizontal	28	1.29	-	36.90	8.70	35.34			

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

2417MHz_TX

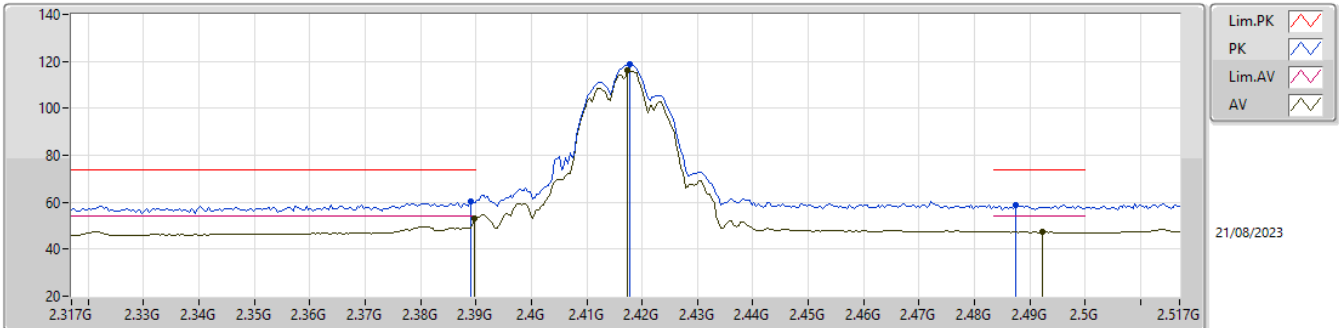


EUT Y_2TX
Setting 25
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.387G	59.32	74.00	-14.68	28.51	3	Vertical	20	1.06	-	27.62	3.19	-			
AV	2.3834G	48.44	54.00	-5.56	17.65	3	Vertical	20	1.06	-	27.60	3.19	-			
PK	2.4154G	114.65	Inf	-Inf	83.73	3	Vertical	20	1.06	-	27.70	3.22	-			
AV	2.415G	112.30	Inf	-Inf	81.39	3	Vertical	20	1.06	-	27.70	3.21	-			
PK	2.4866G	59.72	74.00	-14.28	28.58	3	Vertical	20	1.06	-	27.85	3.29	-			
AV	2.499G	47.09	54.00	-6.91	15.89	3	Vertical	20	1.06	-	27.90	3.30	-			

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

2417MHz_TX

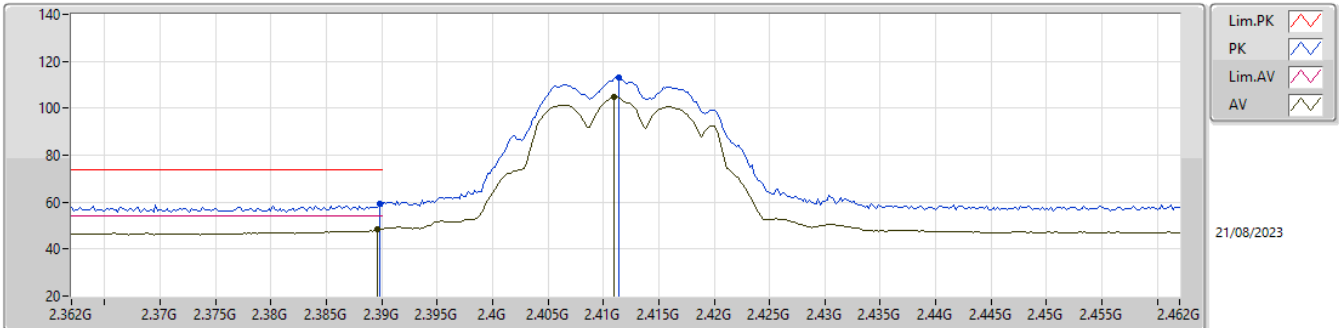


EUT Y_2TX
Setting 25
04-M-A-4

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	60.59	74.00	-13.41	29.77	3	Horizontal	299	1.80	-	27.63	3.19	-			
AV	2.3898G	52.92	54.00	-1.08	22.09	3	Horizontal	299	1.80	-	27.64	3.19	-			
PK	2.4178G	118.87	Inf	-Inf	87.95	3	Horizontal	299	1.80	-	27.70	3.22	-			
AV	2.4174G	116.45	Inf	-Inf	85.53	3	Horizontal	299	1.80	-	27.70	3.22	-			
PK	2.4874G	58.78	74.00	-15.22	27.64	3	Horizontal	299	1.80	-	27.85	3.29	-			
AV	2.4922G	47.31	54.00	-6.69	16.15	3	Horizontal	299	1.80	-	27.87	3.29	-			

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

2412MHz_TX

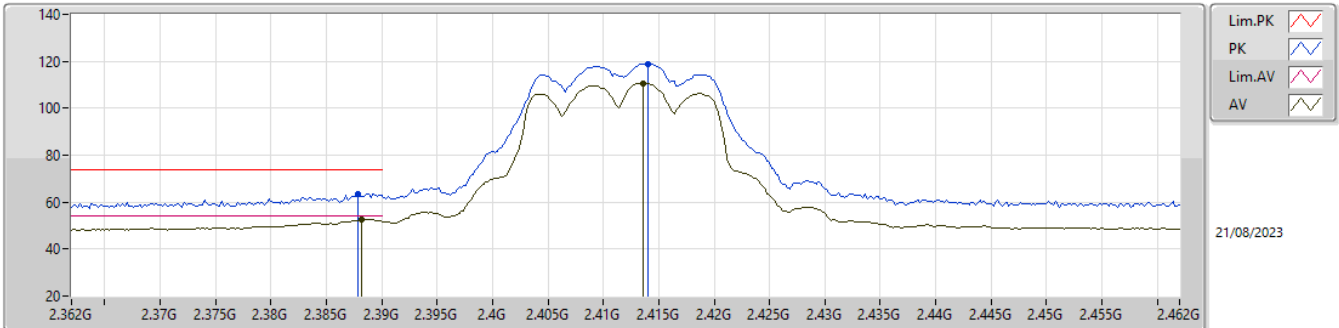


EUT_Y_2TX
Setting 21
04-M-A-4

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	59.37	74.00	-14.63	28.54	3	Vertical	180	2.56	-	27.64	3.19	-				
AV	2.3896G	48.24	54.00	-5.76	17.41	3	Vertical	180	2.56	-	27.64	3.19	-				
PK	2.4114G	113.00	Inf	-Inf	82.09	3	Vertical	180	2.56	-	27.70	3.21	-				
AV	2.411G	104.61	Inf	-Inf	73.70	3	Vertical	180	2.56	-	27.70	3.21	-				

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

2412MHz_TX

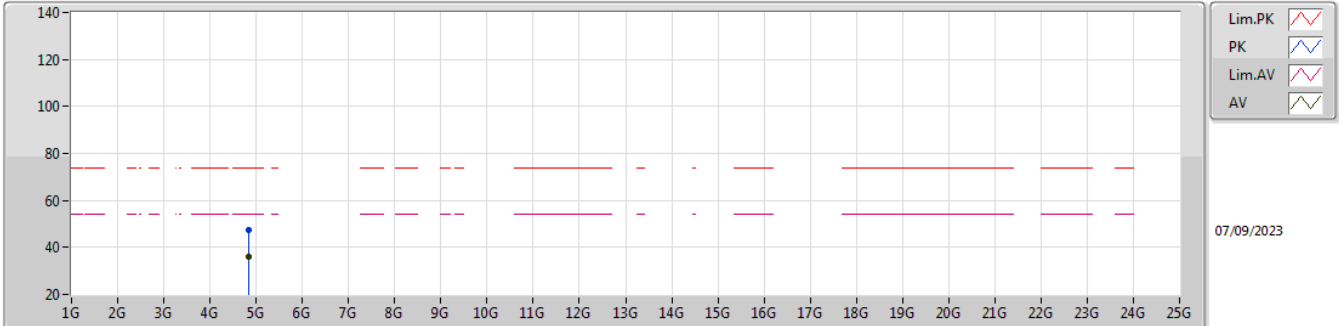


EUT_Y_2TX
Setting 21
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3878G	63.63	74.00	-10.37	32.81	3	Horizontal	294	2.59	-	27.63	3.19	-				
AV	2.3882G	52.55	54.00	-1.45	21.73	3	Horizontal	294	2.59	-	27.63	3.19	-				
PK	2.414G	119.02	Inf	-Inf	88.11	3	Horizontal	294	2.59	-	27.70	3.21	-				
AV	2.4136G	110.65	Inf	-Inf	79.74	3	Horizontal	294	2.59	-	27.70	3.21	-				

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

2412MHz_TX

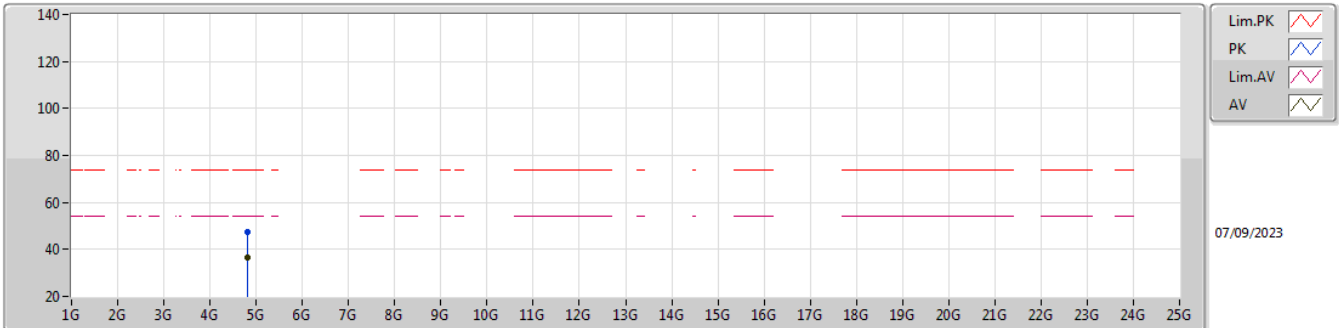


EUT V_2TX
Setting 21
03-L-M-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.83208G	47.24	74.00	-26.76	42.02	3	Vertical	144	1.80	-	33.40	6.52	34.70			
AV	4.83188G	35.97	54.00	-18.03	30.75	3	Vertical	144	1.80	-	33.40	6.52	34.70			

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

2412MHz_TX

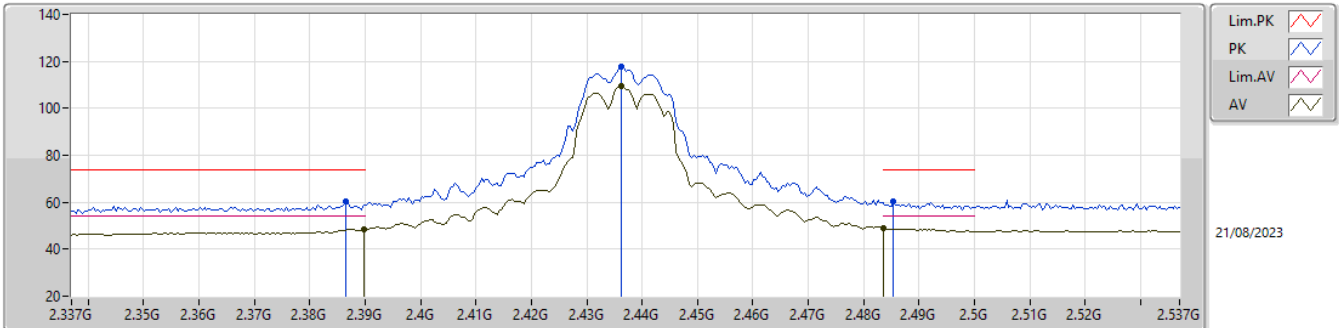


EUT_V_2TX
Setting 21
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.82388G	47.59	74.00	-26.41	42.37	3	Horizontal	297	2.65	-	33.40	6.51	34.69			
AV	4.82396G	36.34	54.00	-17.66	31.12	3	Horizontal	297	2.65	-	33.40	6.51	34.69			

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

2437MHz_TX

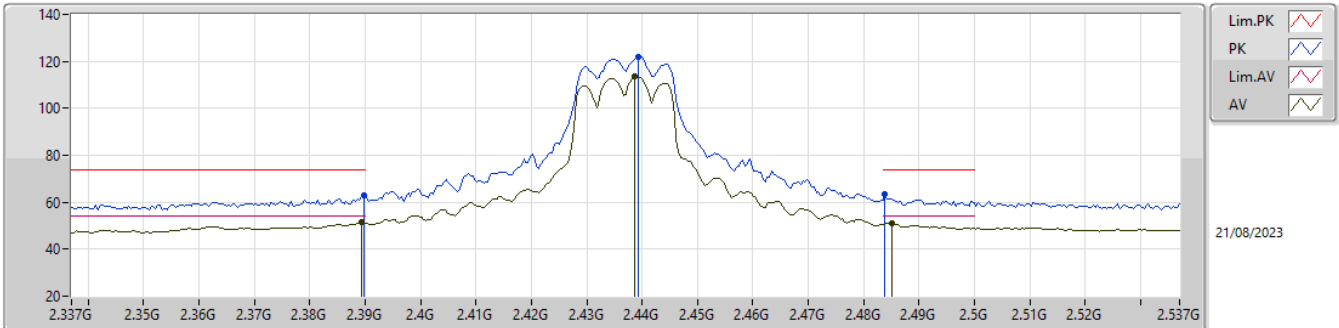


EUT_Y_2TX
Setting 24
04-M-A-4

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	2.3866G	60.35	74.00	-13.65	29.54	3	Vertical	337	2.80	-	27.62	3.19	-			
AV	2.3898G	48.64	54.00	-5.36	17.81	3	Vertical	337	2.80	-	27.64	3.19	-			
PK	2.4362G	117.79	Inf	-Inf	86.85	3	Vertical	337	2.80	-	27.70	3.24	-			
AV	2.4362G	109.49	Inf	-Inf	78.55	3	Vertical	337	2.80	-	27.70	3.24	-			
PK	2.4854G	60.39	74.00	-13.61	29.26	3	Vertical	337	2.80	-	27.84	3.29	-			
AV	2.4835G	49.05	54.00	-4.95	17.94	3	Vertical	337	2.80	-	27.83	3.28	-			

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

2437MHz_TX

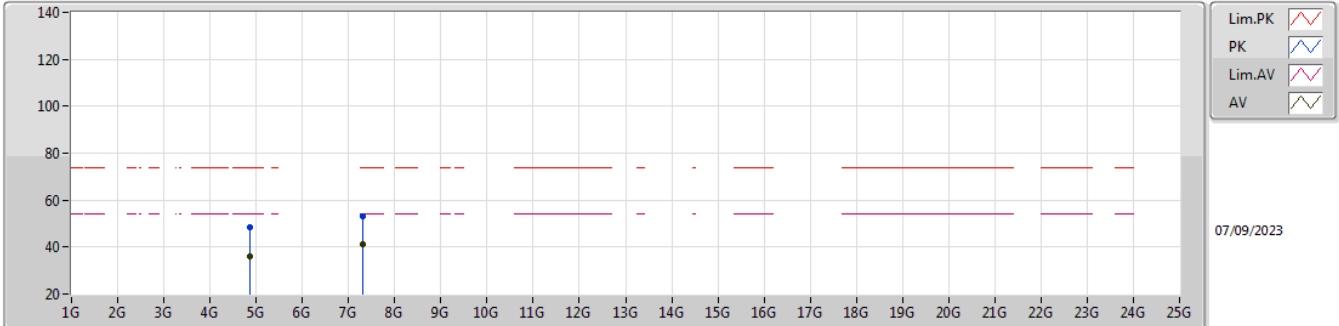


EUT_Y_2TX
Setting 24
04-M-A-4

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	62.85	74.00	-11.15	32.02	3	Horizontal	311	2.48	-	27.64	3.19	-			
AV	2.3894G	51.48	54.00	-2.52	20.65	3	Horizontal	311	2.48	-	27.64	3.19	-			
PK	2.4394G	121.73	Inf	-Inf	90.79	3	Horizontal	311	2.48	-	27.70	3.24	-			
AV	2.4386G	113.38	Inf	-Inf	82.44	3	Horizontal	311	2.48	-	27.70	3.24	-			
PK	2.4838G	63.36	74.00	-10.64	32.24	3	Horizontal	311	2.48	-	27.84	3.28	-			
AV	2.485G	50.89	54.00	-3.11	19.76	3	Horizontal	311	2.48	-	27.84	3.29	-			

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

2437MHz_TX

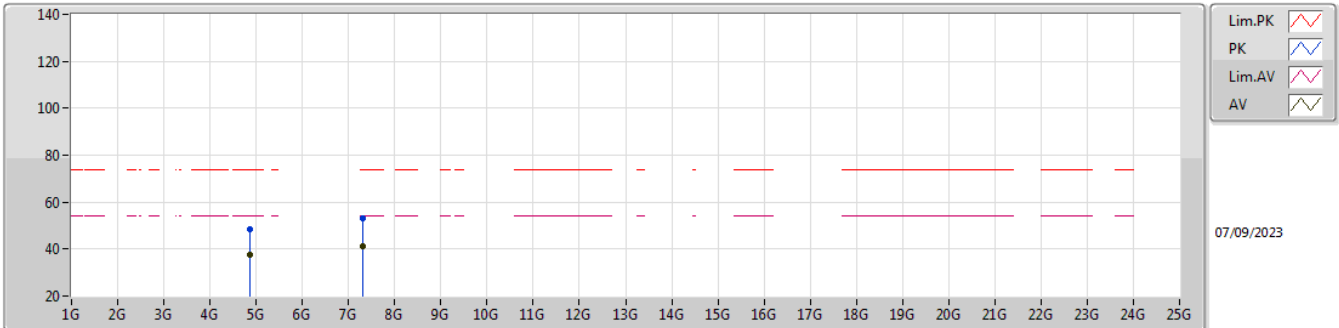


EUT Y_2TX
Setting 24
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.8694G	48.31	74.00	-25.69	42.99	3	Vertical	5	2.00	-	33.52	6.53	34.73			
AV	4.87392G	36.21	54.00	-17.79	30.86	3	Vertical	5	2.00	-	33.54	6.54	34.73			
PK	7.30772G	53.06	74.00	-20.94	42.92	3	Vertical	72	2.92	-	36.82	8.70	35.38			
AV	7.30676G	41.01	54.00	-12.99	30.88	3	Vertical	72	2.92	-	36.81	8.70	35.38			

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

2437MHz_TX

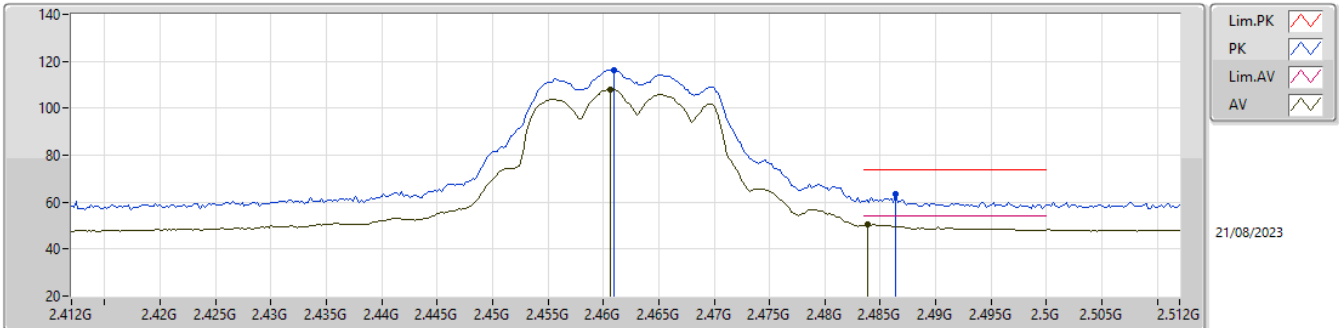


EUT Y_2TX
Setting 24
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87156G	48.29	74.00	-25.71	42.95	3	Horizontal	318	2.97	-	33.53	6.54	34.73			
AV	4.87404G	37.36	54.00	-16.64	32.01	3	Horizontal	318	2.97	-	33.54	6.54	34.73			
PK	7.30728G	52.89	74.00	-21.11	42.76	3	Horizontal	133	1.80	-	36.81	8.70	35.38			
AV	7.30968G	40.99	54.00	-13.01	30.85	3	Horizontal	133	1.80	-	36.82	8.70	35.38			

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

2462MHz_TX

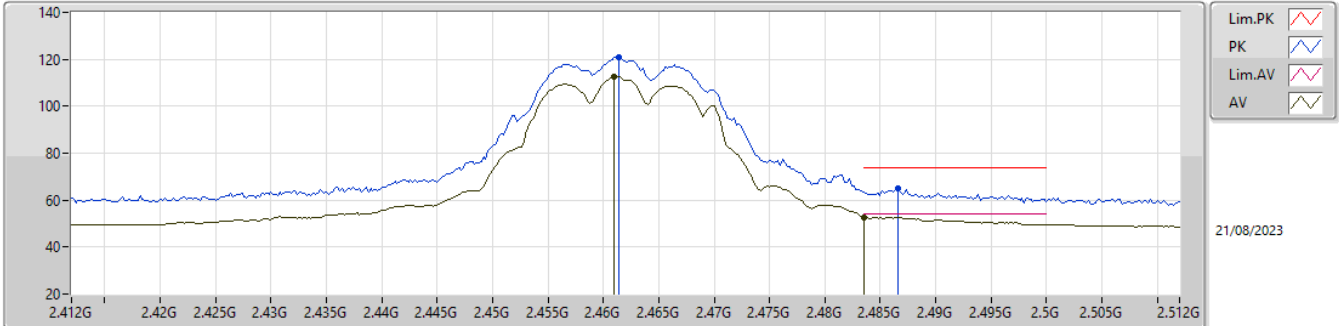


EUT_Y_2TX
Setting 22
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.461G	116.06	Inf	-Inf	85.06	3	Vertical	12	3.00	-	27.74	3.26	-			
AV	2.4606G	107.92	Inf	-Inf	76.92	3	Vertical	12	3.00	-	27.74	3.26	-			
PK	2.4864G	63.34	74.00	-10.66	32.20	3	Vertical	12	3.00	-	27.85	3.29	-			
AV	2.4838G	50.37	54.00	-3.63	19.25	3	Vertical	12	3.00	-	27.84	3.28	-			

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

2462MHz_TX

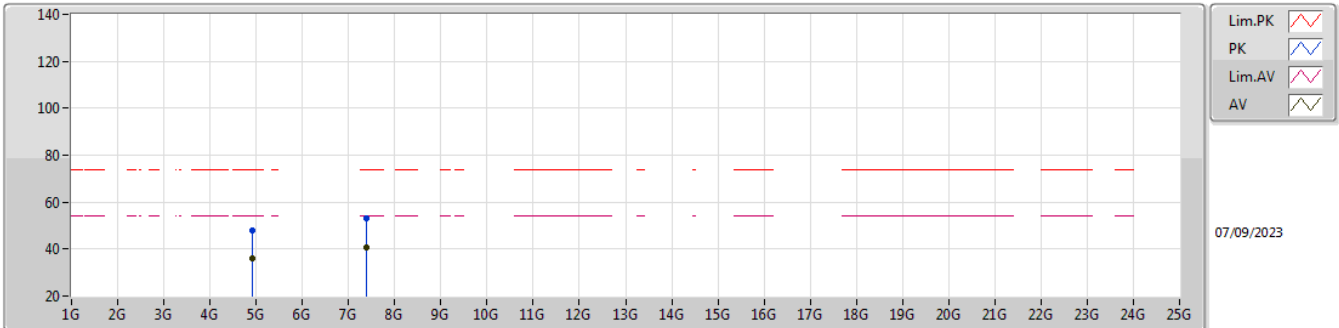


EUT_Y_2TX
Setting 22
04-M-A-4

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	2.4614G	121.01	Inf	-Inf	90.00	3	Horizontal	305	2.49	-	27.75	3.26	-			
AV	2.461G	112.77	Inf	-Inf	81.77	3	Horizontal	305	2.49	-	27.74	3.26	-			
PK	2.4866G	65.13	74.00	-8.87	33.99	3	Horizontal	305	2.49	-	27.85	3.29	-			
AV	2.4835G	52.77	54.00	-1.23	21.66	3	Horizontal	305	2.49	-	27.83	3.28	-			

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

2462MHz_TX

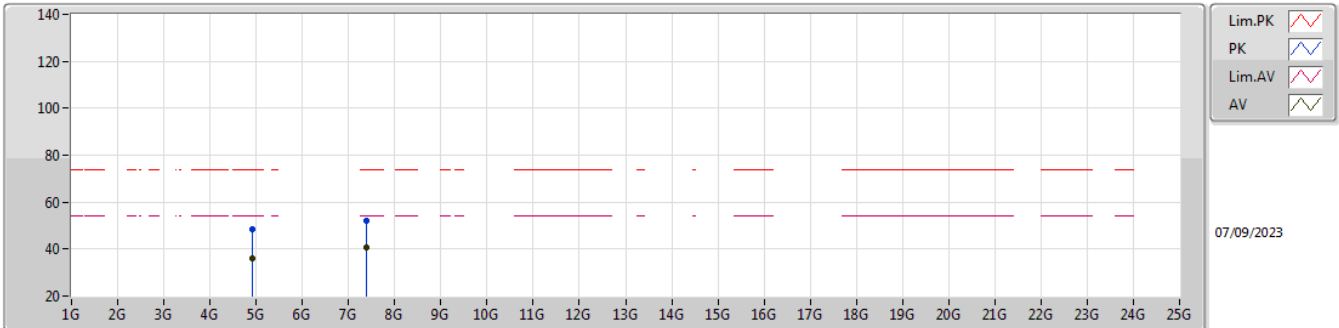


EUT Y_2TX
Setting 22
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92464G	47.87	74.00	-26.13	42.43	3	Vertical	-0	2.34	-	33.65	6.56	34.77			
AV	4.924G	35.99	54.00	-18.01	30.55	3	Vertical	-0	2.34	-	33.65	6.56	34.77			
PK	7.37896G	52.86	74.00	-21.14	42.60	3	Vertical	90	2.25	-	36.90	8.70	35.34			
AV	7.38096G	40.63	54.00	-13.37	30.37	3	Vertical	90	2.25	-	36.90	8.70	35.34			

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

2462MHz_TX

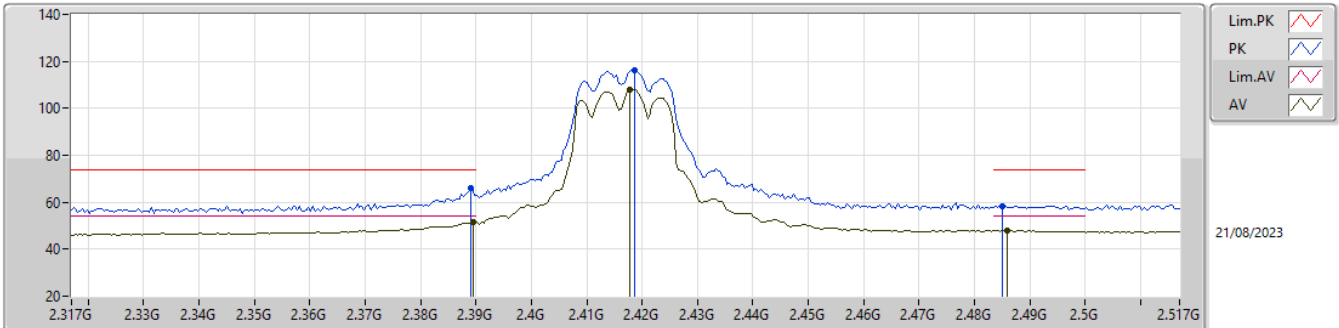


EUT Y_2TX
Setting 22
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92196G	48.35	74.00	-25.65	42.90	3	Horizontal	112	1.80	-	33.66	6.56	34.77			
AV	4.92184G	35.78	54.00	-18.22	30.33	3	Horizontal	112	1.80	-	33.66	6.56	34.77			
PK	7.37884G	52.24	74.00	-21.76	41.98	3	Horizontal	135	2.92	-	36.90	8.70	35.34			
AV	7.37956G	40.57	54.00	-13.43	30.31	3	Horizontal	135	2.92	-	36.90	8.70	35.34			

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

2417MHz_TX

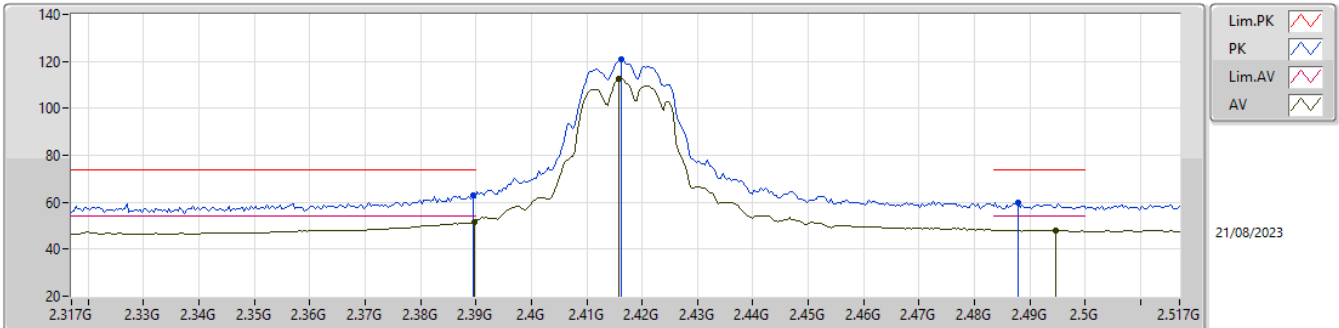


EUT Y_2TX
Setting 22.5
04-M-A-4

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	65.83	74.00	-8.17	35.01	3	Vertical	16	1.04	-	27.63	3.19	-			
AV	2.3894G	51.62	54.00	-2.38	20.79	3	Vertical	16	1.04	-	27.64	3.19	-			
PK	2.4186G	116.26	Inf	-Inf	85.34	3	Vertical	16	1.04	-	27.70	3.22	-			
AV	2.4178G	108.02	Inf	-Inf	77.10	3	Vertical	16	1.04	-	27.70	3.22	-			
PK	2.485G	58.51	74.00	-15.49	27.38	3	Vertical	16	1.04	-	27.84	3.29	-			
AV	2.4858G	48.00	54.00	-6.00	16.87	3	Vertical	16	1.04	-	27.84	3.29	-			

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

2417MHz_TX

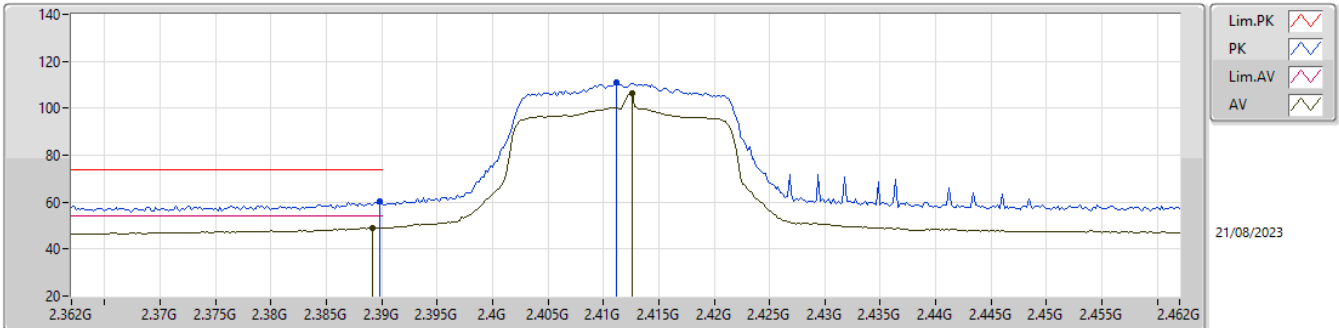


EUT Y_2TX
Setting 22.5
04-M-A-4

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	62.70	74.00	-11.30	31.87	3	Horizontal	298	1.17	-	27.64	3.19	-			
AV	2.3898G	51.76	54.00	-2.24	20.93	3	Horizontal	298	1.17	-	27.64	3.19	-			
PK	2.4162G	121.04	Inf	-Inf	90.12	3	Horizontal	298	1.17	-	27.70	3.22	-			
AV	2.4158G	112.70	Inf	-Inf	81.78	3	Horizontal	298	1.17	-	27.70	3.22	-			
PK	2.4878G	59.60	74.00	-14.40	28.46	3	Horizontal	298	1.17	-	27.85	3.29	-			
AV	2.4946G	48.03	54.00	-5.97	16.86	3	Horizontal	298	1.17	-	27.88	3.29	-			

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

2412MHz_TX

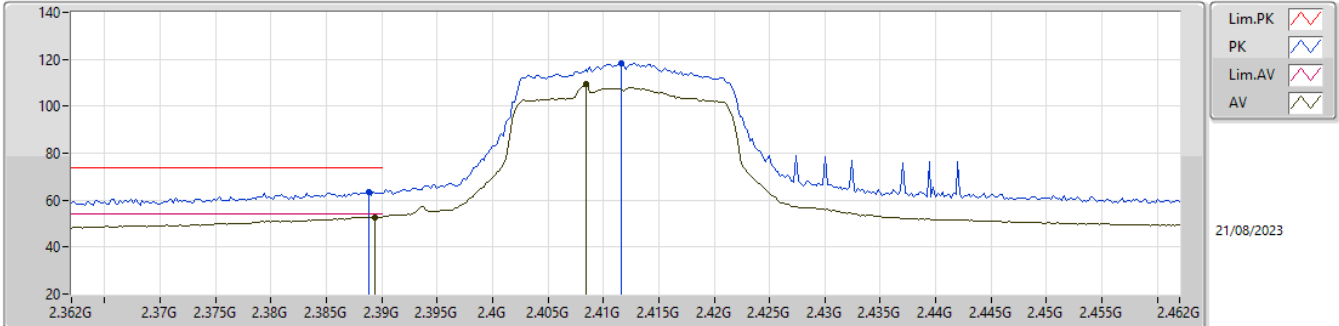


EUT_Y_2TX
Setting 24
04-M-A-4

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	60.14	74.00	-13.86	29.31	3	Vertical	176	2.60	-	27.64	3.19	-			
AV	2.3892G	49.03	54.00	-4.97	18.20	3	Vertical	176	2.60	-	27.64	3.19	-			
PK	2.4112G	110.80	Inf	-Inf	79.89	3	Vertical	176	2.60	-	27.70	3.21	-			
AV	2.4126G	106.16	Inf	-Inf	75.25	3	Vertical	176	2.60	-	27.70	3.21	-			

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

2412MHz_TX

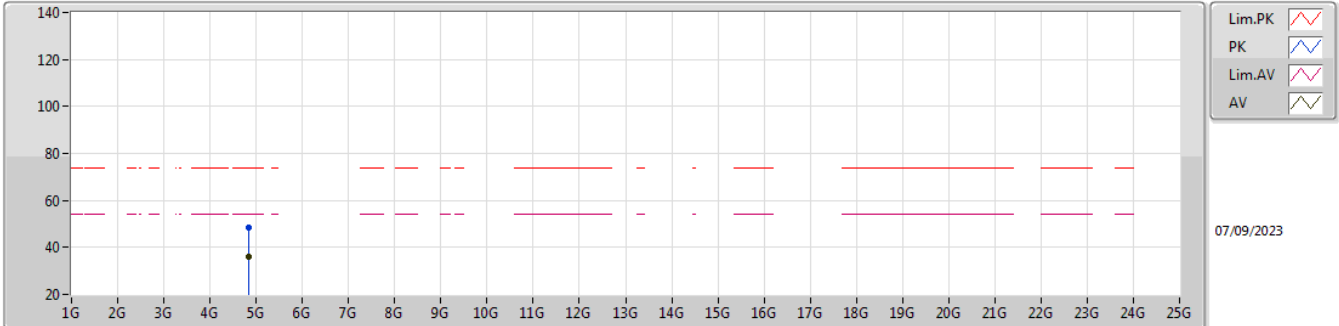


EUT_Y_2TX
Setting 24
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)				
PK	2.3888G	63.52	74.00	-10.48	32.70	3	Horizontal	292	2.57	-	27.63	3.19	-				
AV	2.3894G	52.80	54.00	-1.20	21.97	3	Horizontal	292	2.57	-	27.64	3.19	-				
PK	2.4116G	118.49	Inf	-Inf	87.58	3	Horizontal	292	2.57	-	27.70	3.21	-				
AV	2.4084G	109.56	Inf	-Inf	78.65	3	Horizontal	292	2.57	-	27.70	3.21	-				

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

2412MHz_TX

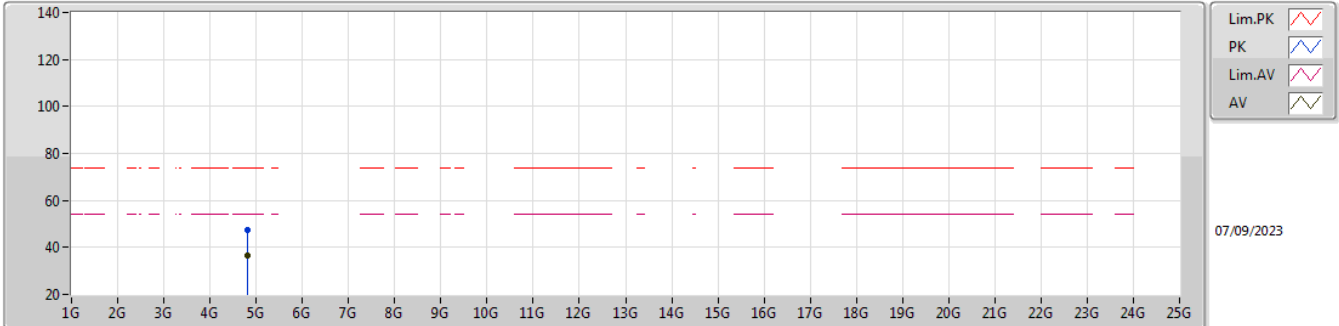


EUT V_2TX
Setting 24
03-L-M-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA			
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)			
PK	4.8262G	48.44	74.00	-25.56	43.22	3	Vertical	292	2.91	-	33.40	6.51	34.69			
AV	4.83192G	35.90	54.00	-18.10	30.68	3	Vertical	292	2.91	-	33.40	6.52	34.70			

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

2412MHz_TX

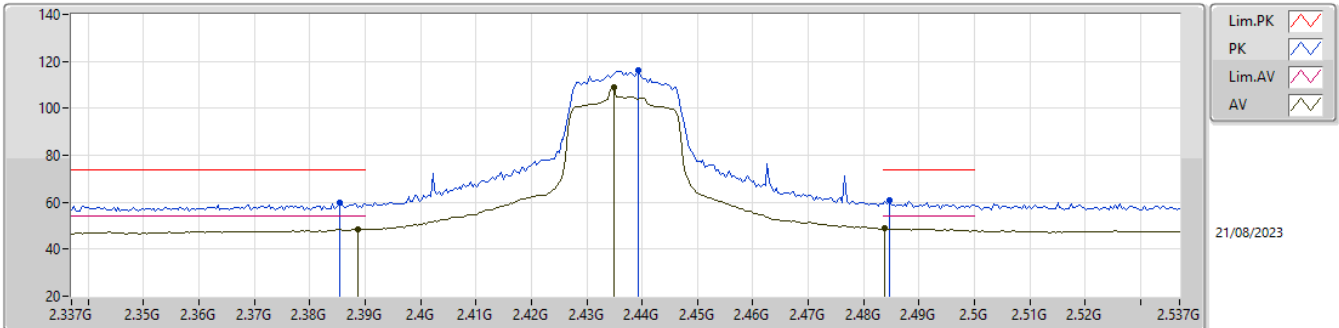


EUT V_2TX
Setting 24
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.81544G	47.36	74.00	-26.64	42.14	3	Horizontal	291	2.97	-	33.40	6.51	34.69			
AV	4.82396G	36.41	54.00	-17.59	31.19	3	Horizontal	291	2.97	-	33.40	6.51	34.69			

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

2437MHz_TX

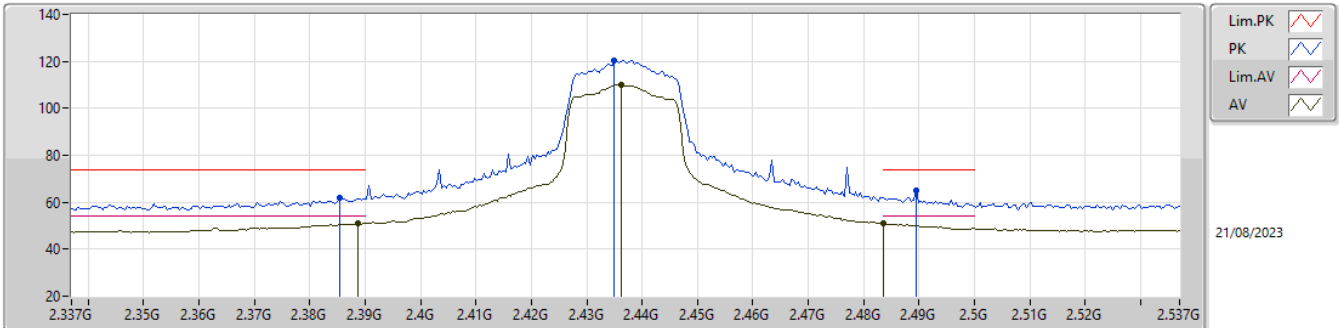


EUT_Y_2TX
Setting 27
04-M-A-4

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	2.3854G	59.66	74.00	-14.34	28.86	3	Vertical	159	2.56	-	27.61	3.19	-			
AV	2.3886G	48.44	54.00	-5.56	17.62	3	Vertical	159	2.56	-	27.63	3.19	-			
PK	2.4394G	116.00	Inf	-Inf	85.06	3	Vertical	159	2.56	-	27.70	3.24	-			
AV	2.435G	109.14	Inf	-Inf	78.20	3	Vertical	159	2.56	-	27.70	3.24	-			
PK	2.4846G	60.81	74.00	-13.19	29.69	3	Vertical	159	2.56	-	27.84	3.28	-			
AV	2.4838G	48.86	54.00	-5.14	17.74	3	Vertical	159	2.56	-	27.84	3.28	-			

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

2437MHz_TX

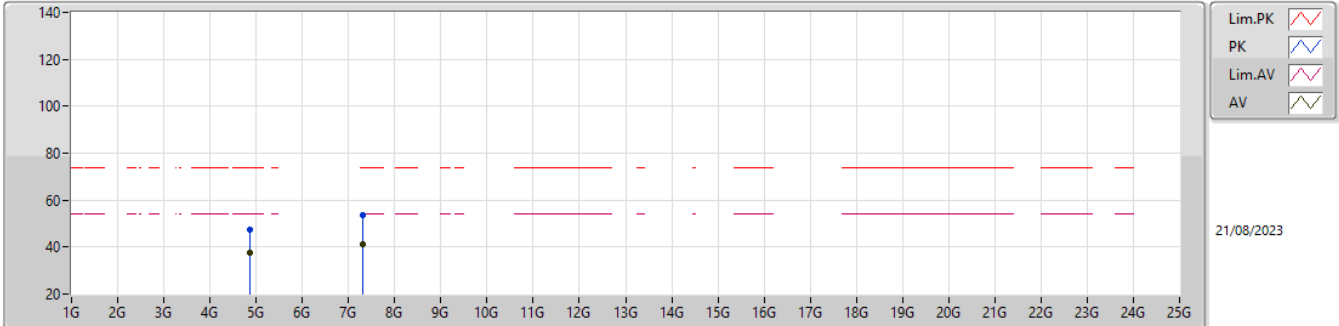


EUT_Y_2TX
Setting 27
04-M-A-4

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	2.3854G	62.02	74.00	-11.98	31.22	3	Horizontal	285	2.25	-	27.61	3.19	-				
AV	2.3886G	50.89	54.00	-3.11	20.07	3	Horizontal	285	2.25	-	27.63	3.19	-				
PK	2.435G	120.43	Inf	-Inf	89.49	3	Horizontal	285	2.25	-	27.70	3.24	-				
AV	2.4362G	110.06	Inf	-Inf	79.12	3	Horizontal	285	2.25	-	27.70	3.24	-				
PK	2.4894G	65.04	74.00	-8.96	33.89	3	Horizontal	285	2.25	-	27.86	3.29	-				
AV	2.4835G	51.03	54.00	-2.97	19.92	3	Horizontal	285	2.25	-	27.83	3.28	-				

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

2437MHz_TX

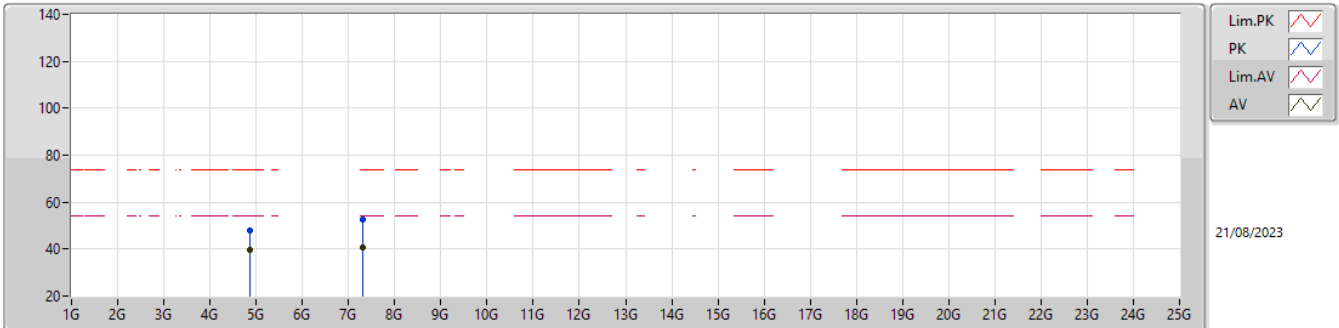


EUT_Y_2TX
Setting 27
04-M-A-4

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	4.87638G	47.30	74.00	-26.70	41.75	3	Vertical	360	1.00	-	32.75	5.30	32.50			
AV	4.87354G	37.62	54.00	-16.38	32.08	3	Vertical	360	1.00	-	32.75	5.30	32.51			
PK	7.30942G	53.87	74.00	-20.13	43.35	3	Vertical	260	1.82	-	37.70	6.91	34.09			
AV	7.31194G	41.08	54.00	-12.92	30.56	3	Vertical	260	1.82	-	37.70	6.91	34.09			

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

2437MHz_TX

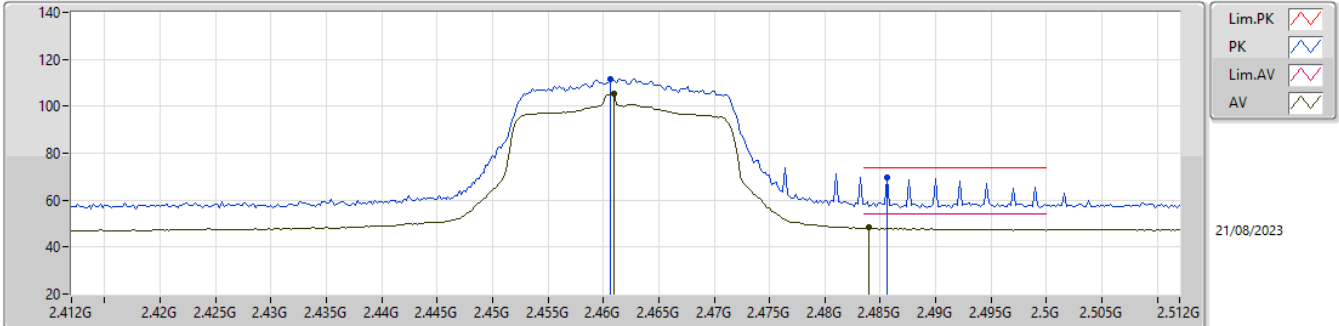


EUT_Y_2TX
Setting 27
04-M-A-4

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	4.87374G	47.92	74.00	-26.08	42.38	3	Horizontal	306	3.00	-	32.75	5.30	32.51			
AV	4.8737G	39.65	54.00	-14.35	34.11	3	Horizontal	306	3.00	-	32.75	5.30	32.51			
PK	7.30824G	52.78	74.00	-21.22	42.26	3	Horizontal	89	1.80	-	37.70	6.91	34.09			
AV	7.3117G	40.82	54.00	-13.18	30.30	3	Horizontal	89	1.80	-	37.70	6.91	34.09			

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

2462MHz_TX

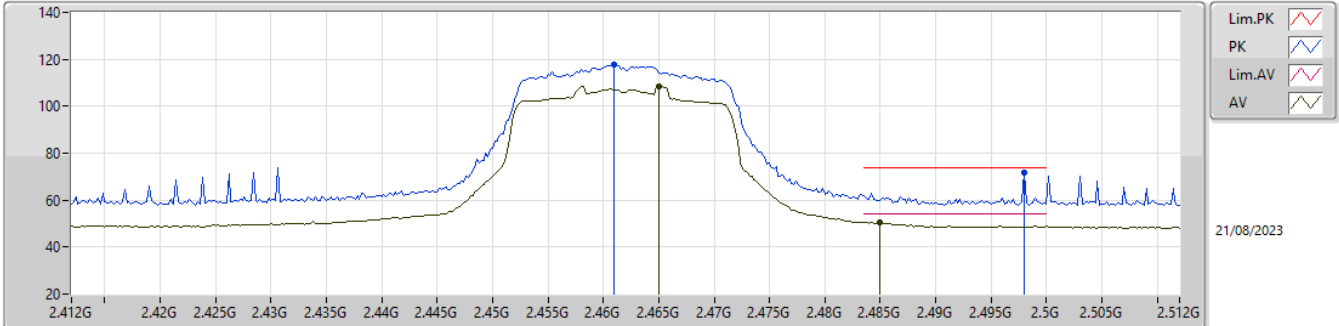


EUT_Y_2TX
Setting 23
04-M-A-4

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	2.4606G	111.49	Inf	-Inf	80.49	3	Vertical	165	2.86	-	27.74	3.26	-				
AV	2.461G	105.50	Inf	-Inf	74.50	3	Vertical	165	2.86	-	27.74	3.26	-				
PK	2.4856G	69.83	74.00	-4.17	38.70	3	Vertical	165	2.86	-	27.84	3.29	-				
AV	2.484G	48.21	54.00	-5.79	17.09	3	Vertical	165	2.86	-	27.84	3.28	-				

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

2462MHz_TX

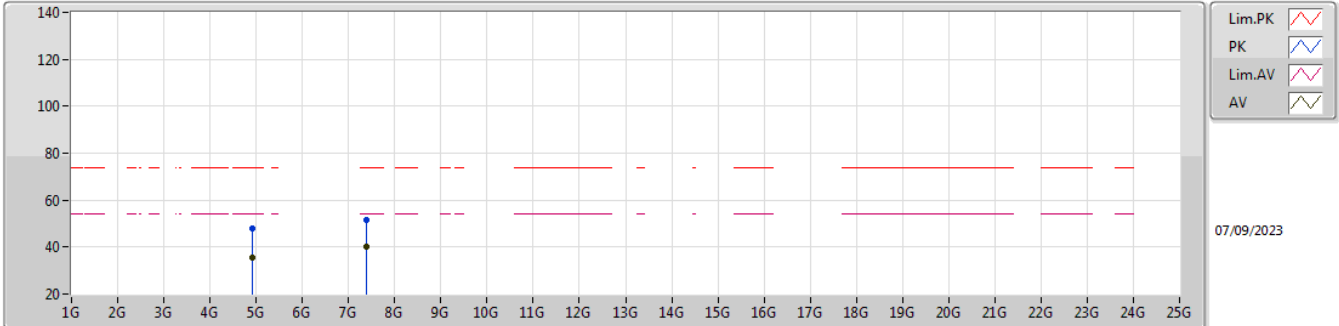


EUT_Y_2TX
Setting 23
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.461G	117.90	Inf	-Inf	86.90	3	Horizontal	305	2.51	-	27.74	3.26	-			
AV	2.465G	108.62	Inf	-Inf	77.59	3	Horizontal	305	2.51	-	27.76	3.27	-			
PK	2.498G	71.48	74.00	-2.52	40.29	3	Horizontal	305	2.51	-	27.89	3.30	-			
AV	2.485G	50.38	54.00	-3.62	19.25	3	Horizontal	305	2.51	-	27.84	3.29	-			

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

2462MHz_TX

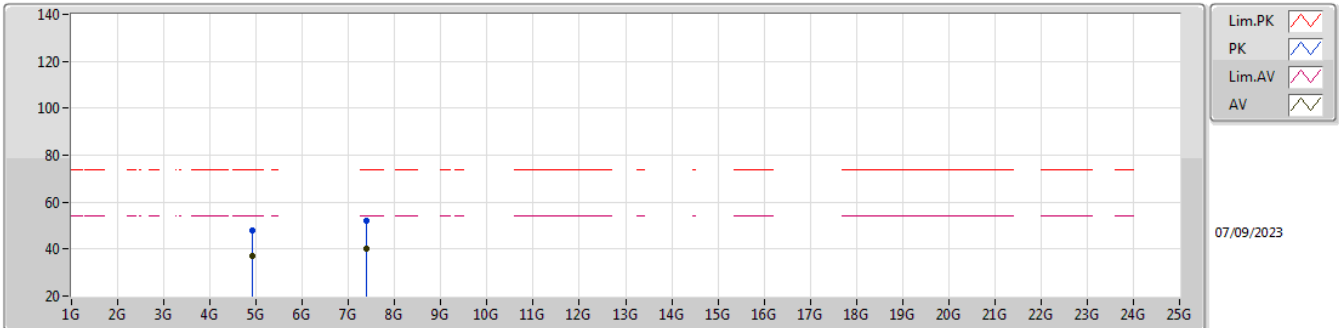


EUT Y_2TX
Setting 23
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.92904G	47.89	74.00	-26.11	42.46	3	Vertical	113	1.27	-	33.64	6.56	34.77			
AV	4.9178G	35.57	54.00	-18.43	30.12	3	Vertical	113	1.27	-	33.66	6.56	34.77			
PK	7.38304G	51.69	74.00	-22.31	41.43	3	Vertical	169	1.30	-	36.90	8.70	35.34			
AV	7.37764G	40.31	54.00	-13.69	30.05	3	Vertical	169	1.30	-	36.90	8.70	35.34			

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

2462MHz_TX

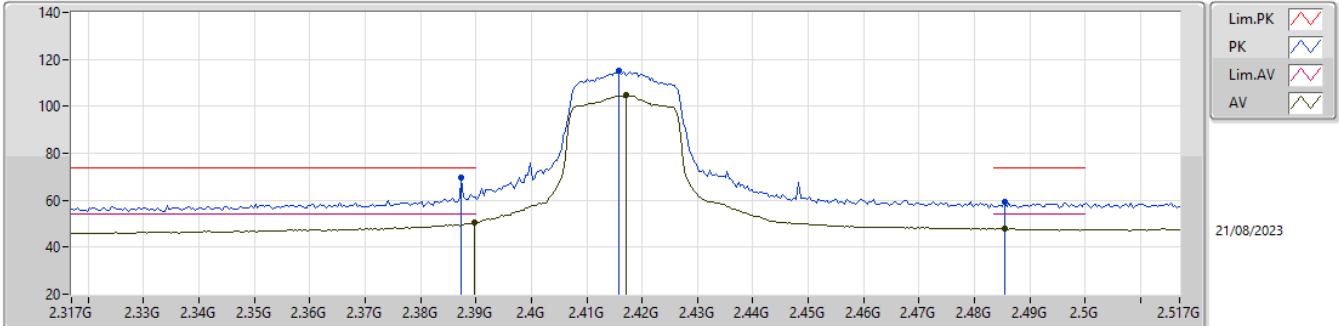


EUT_V_2TX
Setting 23
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.928G	47.73	74.00	-26.27	42.30	3	Horizontal	305	2.86	-	33.64	6.56	34.77			
AV	4.92404G	37.18	54.00	-16.82	31.74	3	Horizontal	305	2.86	-	33.65	6.56	34.77			
PK	7.38764G	52.24	74.00	-21.76	41.98	3	Horizontal	54	1.80	-	36.90	8.70	35.34			
AV	7.38152G	40.32	54.00	-13.68	30.06	3	Horizontal	54	1.80	-	36.90	8.70	35.34			

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

2417MHz_TX

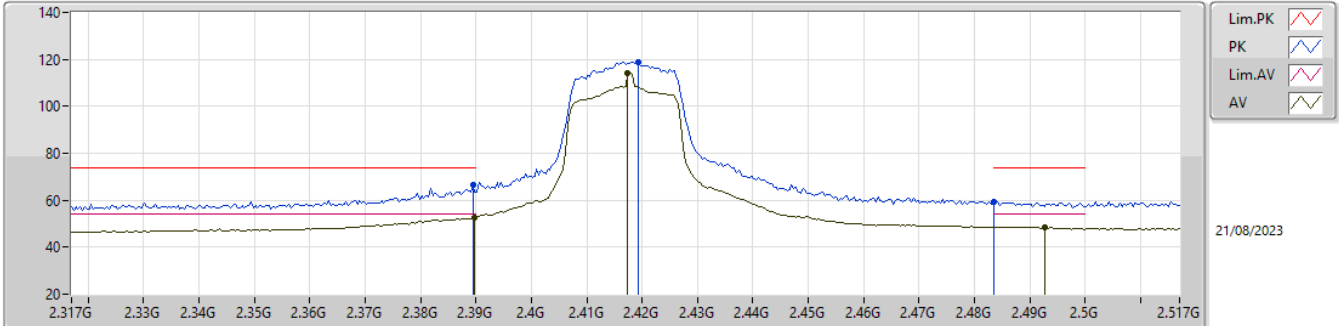


EUT Y_2TX
Setting 26
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3874G	69.71	74.00	-4.29	38.90	3	Vertical	360	2.97	-	27.62	3.19	-			
AV	2.3898G	50.58	54.00	-3.42	19.75	3	Vertical	360	2.97	-	27.64	3.19	-			
PK	2.4158G	115.04	Inf	-Inf	84.12	3	Vertical	360	2.97	-	27.70	3.22	-			
AV	2.417G	104.76	Inf	-Inf	73.84	3	Vertical	360	2.97	-	27.70	3.22	-			
PK	2.4854G	59.53	74.00	-14.47	28.40	3	Vertical	360	2.97	-	27.84	3.29	-			
AV	2.4854G	47.77	54.00	-6.23	16.64	3	Vertical	360	2.97	-	27.84	3.29	-			

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

2417MHz_TX

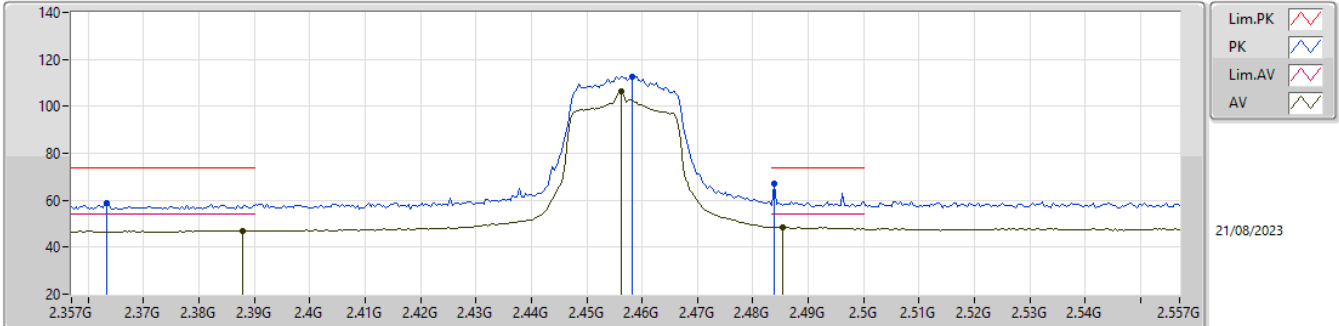


EUT_Y_2TX
Setting 26
04-M-A-4

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	66.37	74.00	-7.63	35.54	3	Horizontal	301	2.22	-	27.64	3.19	-			
AV	2.3898G	52.80	54.00	-1.20	21.97	3	Horizontal	301	2.22	-	27.64	3.19	-			
PK	2.4194G	118.89	Inf	-Inf	87.97	3	Horizontal	301	2.22	-	27.70	3.22	-			
AV	2.4174G	114.01	Inf	-Inf	83.09	3	Horizontal	301	2.22	-	27.70	3.22	-			
PK	2.4835G	59.39	74.00	-14.61	28.28	3	Horizontal	301	2.22	-	27.83	3.28	-			
AV	2.4926G	48.68	54.00	-5.32	17.52	3	Horizontal	301	2.22	-	27.87	3.29	-			

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

2457MHz_TX

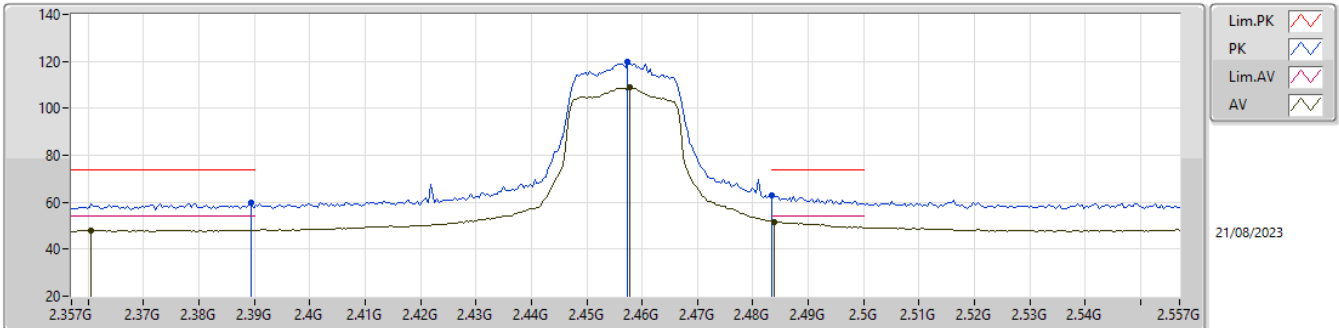


EUT Y_2TX
Setting 25
04-M-A-4

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	2.3634G	58.57	74.00	-15.43	27.91	3	Vertical	15	2.45	-	27.48	3.18	-			
AV	2.3878G	47.14	54.00	-6.86	16.32	3	Vertical	15	2.45	-	27.63	3.19	-			
PK	2.4582G	112.82	Inf	-Inf	81.83	3	Vertical	15	2.45	-	27.73	3.26	-			
AV	2.4562G	106.25	Inf	-Inf	75.27	3	Vertical	15	2.45	-	27.72	3.26	-			
PK	2.4838G	67.31	74.00	-6.69	36.19	3	Vertical	15	2.45	-	27.84	3.28	-			
AV	2.4854G	48.44	54.00	-5.56	17.31	3	Vertical	15	2.45	-	27.84	3.29	-			

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

2457MHz_TX

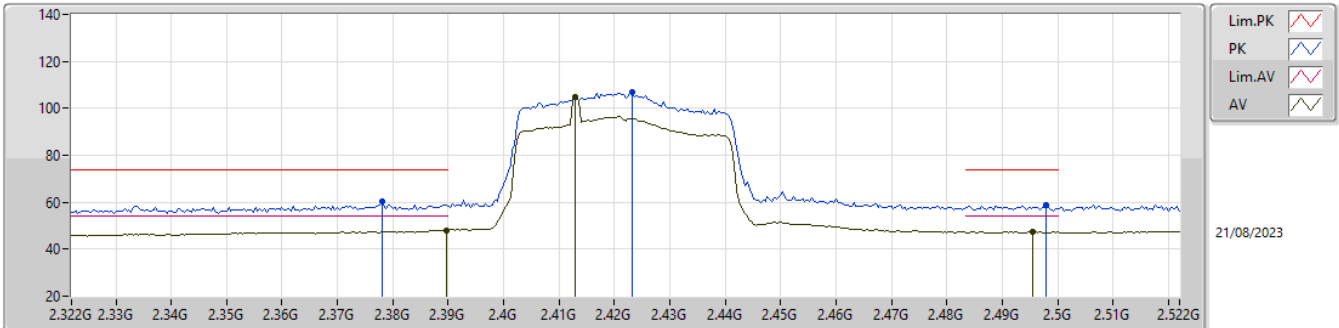


EUT Y_2TX
Setting 25
04-M-A-4

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	59.93	74.00	-14.07	29.10	3	Horizontal	309	2.46	-	27.64	3.19	-			
AV	2.3606G	48.13	54.00	-5.87	17.49	3	Horizontal	309	2.46	-	27.46	3.18	-			
PK	2.4574G	119.81	Inf	-Inf	88.82	3	Horizontal	309	2.46	-	27.73	3.26	-			
AV	2.4578G	108.92	Inf	-Inf	77.93	3	Horizontal	309	2.46	-	27.73	3.26	-			
PK	2.4835G	62.83	74.00	-11.17	31.72	3	Horizontal	309	2.46	-	27.83	3.28	-			
AV	2.4838G	51.66	54.00	-2.34	20.54	3	Horizontal	309	2.46	-	27.84	3.28	-			

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

2422MHz_TX

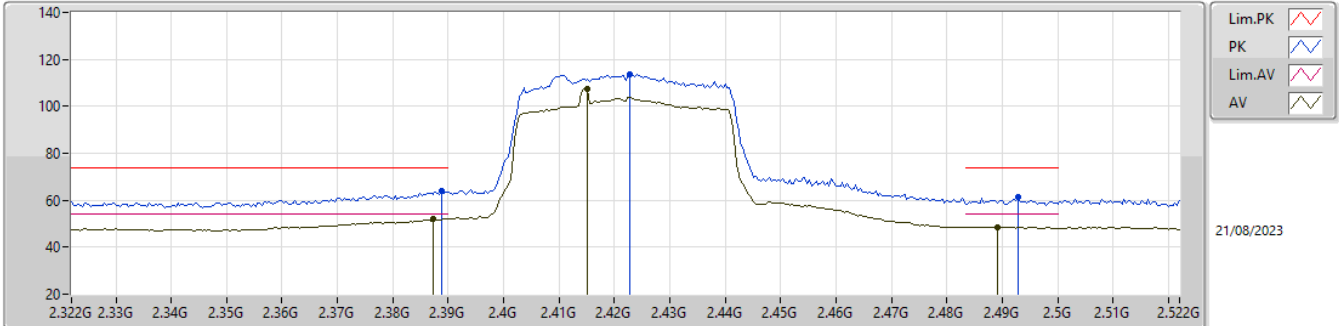


EUT_Y_2TX
Setting 23
04-M-A-4

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	2.378G	60.23	74.00	-13.77	29.47	3	Vertical	178	1.46	-	27.57	3.19	-			
AV	2.3896G	48.03	54.00	-5.97	17.20	3	Vertical	178	1.46	-	27.64	3.19	-			
PK	2.4232G	106.98	Inf	-Inf	76.06	3	Vertical	178	1.46	-	27.70	3.22	-			
AV	2.4128G	104.68	Inf	-Inf	73.77	3	Vertical	178	1.46	-	27.70	3.21	-			
PK	2.498G	58.62	74.00	-15.38	27.43	3	Vertical	178	1.46	-	27.89	3.30	-			
AV	2.4956G	47.57	54.00	-6.43	16.39	3	Vertical	178	1.46	-	27.88	3.30	-			

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

2422MHz_TX

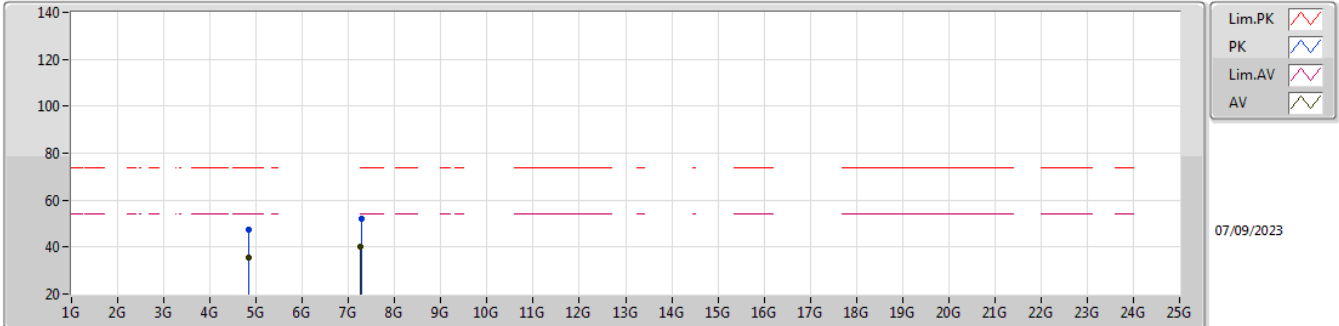


EUT_Y_2TX
Setting 23
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3888G	64.20	74.00	-9.80	33.38	3	Horizontal	292	2.46	-	27.63	3.19	-			
AV	2.3872G	51.90	54.00	-2.10	21.09	3	Horizontal	292	2.46	-	27.62	3.19	-			
PK	2.4228G	113.63	Inf	-Inf	82.71	3	Horizontal	292	2.46	-	27.70	3.22	-			
AV	2.4152G	107.57	Inf	-Inf	76.65	3	Horizontal	292	2.46	-	27.70	3.22	-			
PK	2.4928G	61.20	74.00	-12.80	30.04	3	Horizontal	292	2.46	-	27.87	3.29	-			
AV	2.4892G	48.46	54.00	-5.54	17.31	3	Horizontal	292	2.46	-	27.86	3.29	-			

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

2422MHz_TX

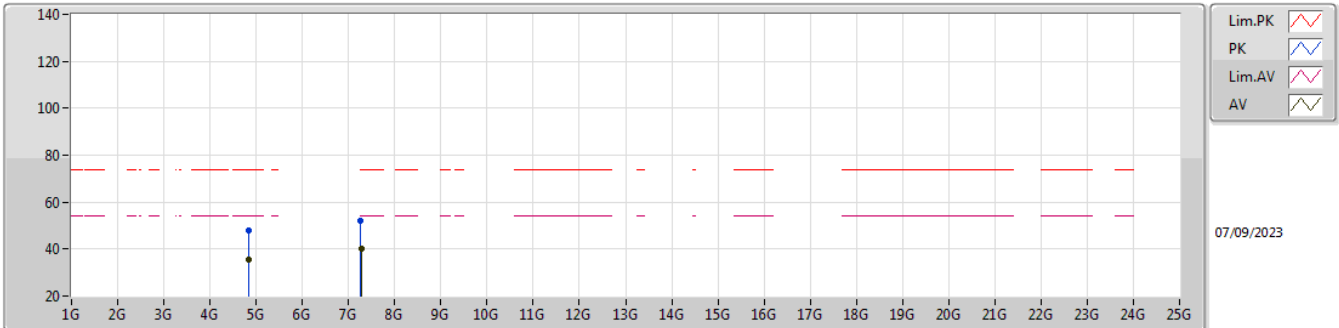


EUT Y_2TX
Setting 23
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.84852G	47.48	74.00	-26.52	42.27	3	Vertical	134	1.92	-	33.40	6.52	34.71			
AV	4.83596G	35.70	54.00	-18.30	30.48	3	Vertical	134	1.92	-	33.40	6.52	34.70			
PK	7.27452G	52.13	74.00	-21.87	42.13	3	Vertical	180	1.18	-	36.70	8.70	35.40			
AV	7.26772G	40.20	54.00	-13.80	30.23	3	Vertical	180	1.18	-	36.67	8.70	35.40			

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

2422MHz_TX

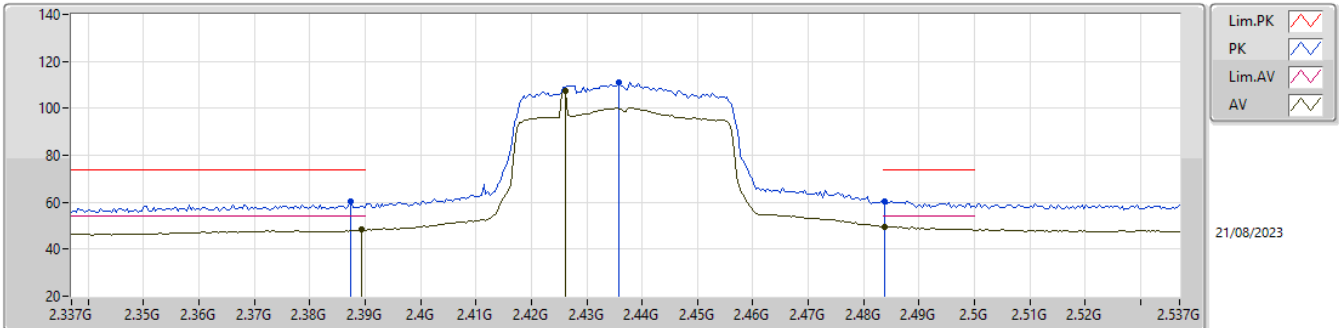


EUT Y_2TX
Setting 23
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.83844G	47.86	74.00	-26.14	42.64	3	Horizontal	310	2.62	-	33.40	6.52	34.70			
AV	4.83692G	35.70	54.00	-18.30	30.48	3	Horizontal	310	2.62	-	33.40	6.52	34.70			
PK	7.26032G	51.97	74.00	-22.03	42.04	3	Horizontal	36	2.07	-	36.64	8.70	35.41			
AV	7.27528G	40.24	54.00	-13.76	30.24	3	Horizontal	36	2.07	-	36.70	8.70	35.40			

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

2437MHz_TX

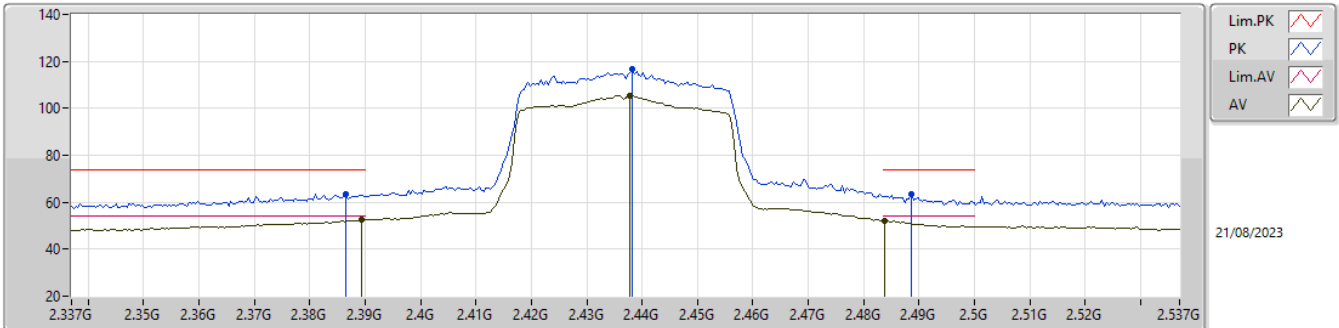


EUT_Y_2TX
Setting 24
04-M-A-4

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	2.3874G	60.29	74.00	-13.71	29.48	3	Vertical	339	2.50	-	27.62	3.19	-			
AV	2.3894G	48.24	54.00	-5.76	17.41	3	Vertical	339	2.50	-	27.64	3.19	-			
PK	2.4358G	110.90	Inf	-Inf	79.96	3	Vertical	339	2.50	-	27.70	3.24	-			
AV	2.4262G	107.41	Inf	-Inf	76.48	3	Vertical	339	2.50	-	27.70	3.23	-			
PK	2.4838G	60.27	74.00	-13.73	29.15	3	Vertical	339	2.50	-	27.84	3.28	-			
AV	2.4838G	49.65	54.00	-4.35	18.53	3	Vertical	339	2.50	-	27.84	3.28	-			

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

2437MHz_TX

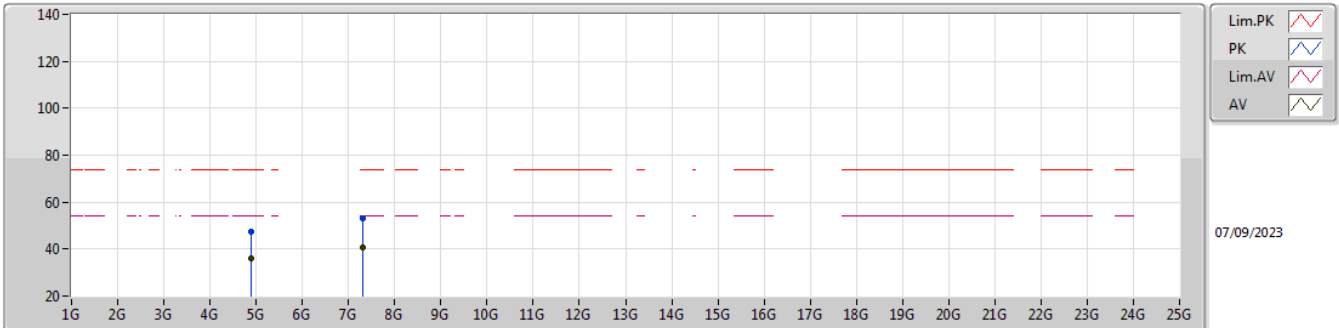


EUT_Y_2TX
Setting 24
04-M-A-4

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	2.3866G	63.49	74.00	-10.51	32.68	3	Horizontal	296	2.34	-	27.62	3.19	-			
AV	2.3894G	52.68	54.00	-1.32	21.85	3	Horizontal	296	2.34	-	27.64	3.19	-			
PK	2.4382G	116.68	Inf	-Inf	85.74	3	Horizontal	296	2.34	-	27.70	3.24	-			
AV	2.4378G	105.52	Inf	-Inf	74.58	3	Horizontal	296	2.34	-	27.70	3.24	-			
PK	2.4886G	63.64	74.00	-10.36	32.50	3	Horizontal	296	2.34	-	27.85	3.29	-			
AV	2.4838G	51.95	54.00	-2.05	20.83	3	Horizontal	296	2.34	-	27.84	3.28	-			

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

2437MHz_TX

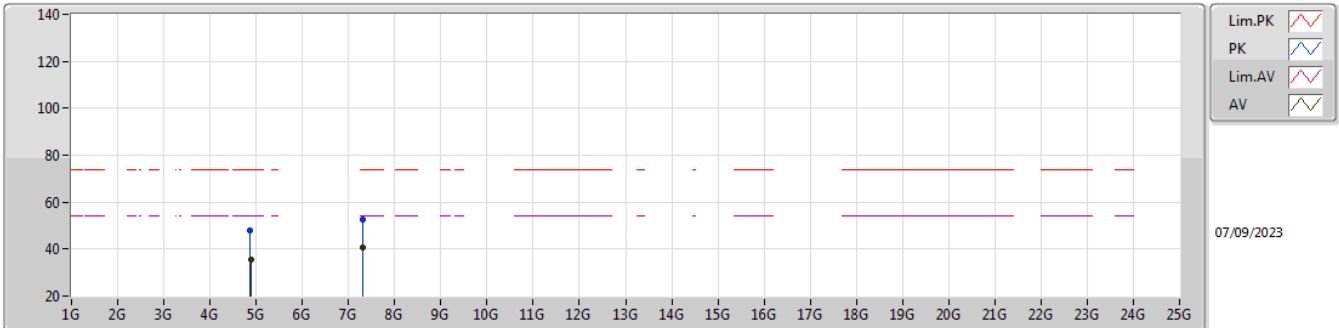


EUT Y_2TX
Setting 24
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.87988G	47.35	74.00	-26.65	41.97	3	Vertical	253	1.80	-	33.58	6.54	34.74			
AV	4.88104G	35.83	54.00	-18.17	30.44	3	Vertical	253	1.80	-	33.59	6.54	34.74			
PK	7.3012G	53.06	74.00	-20.94	42.95	3	Vertical	-0	1.49	-	36.80	8.70	35.39			
AV	7.30392G	40.67	54.00	-13.33	30.54	3	Vertical	-0	1.49	-	36.81	8.70	35.38			

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

2437MHz_TX

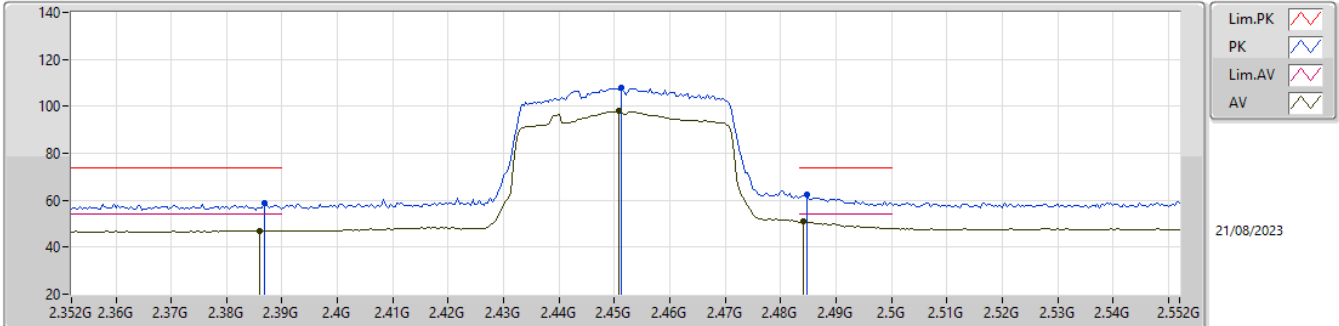


EUT Y_2TX
Setting 24
04-M-A-4

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	4.87428G	47.82	74.00	-26.18	42.46	3	Horizontal	199	1.62	-	33.55	6.54	34.73			
AV	4.88076G	35.74	54.00	-18.26	30.36	3	Horizontal	199	1.62	-	33.58	6.54	34.74			
PK	7.30596G	52.49	74.00	-21.51	42.36	3	Horizontal	105	1.77	-	36.81	8.70	35.38			
AV	7.30108G	40.62	54.00	-13.38	30.51	3	Horizontal	105	1.77	-	36.80	8.70	35.39			

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

2452MHz_TX

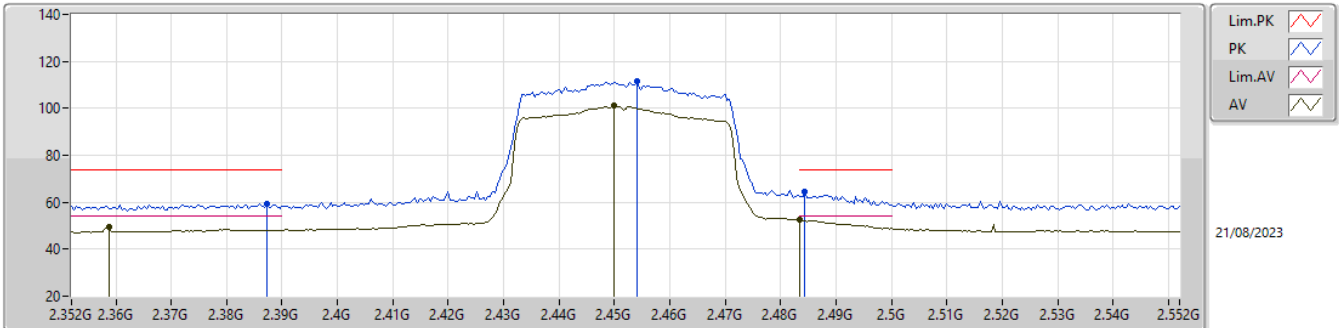


EUT_Y_2TX
Setting 22
04-M-A-4

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	2.3868G	58.97	74.00	-15.03	28.16	3	Vertical	314	2.99	-	27.62	3.19	-			
AV	2.386G	46.91	54.00	-7.09	16.10	3	Vertical	314	2.99	-	27.62	3.19	-			
PK	2.4512G	107.69	Inf	-Inf	76.74	3	Vertical	314	2.99	-	27.70	3.25	-			
AV	2.4508G	98.07	Inf	-Inf	67.12	3	Vertical	314	2.99	-	27.70	3.25	-			
PK	2.4848G	62.59	74.00	-11.41	31.47	3	Vertical	314	2.99	-	27.84	3.28	-			
AV	2.484G	50.88	54.00	-3.12	19.76	3	Vertical	314	2.99	-	27.84	3.28	-			

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

2452MHz_TX

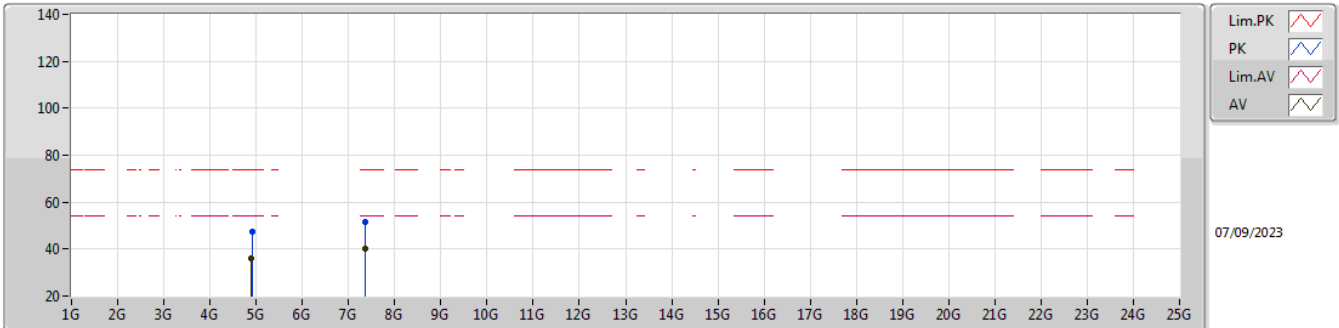


EUT Y_2TX
Setting 22
04-M-A-4

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	2.3872G	59.37	74.00	-14.63	28.56	3	Horizontal	252	1.11	-	27.62	3.19	-			
AV	2.3588G	49.45	54.00	-4.55	18.82	3	Horizontal	252	1.11	-	27.45	3.18	-			
PK	2.454G	111.60	Inf	-Inf	80.63	3	Horizontal	252	1.11	-	27.72	3.25	-			
AV	2.45G	101.01	Inf	-Inf	70.06	3	Horizontal	252	1.11	-	27.70	3.25	-			
PK	2.4844G	64.38	74.00	-9.62	33.26	3	Horizontal	252	1.11	-	27.84	3.28	-			
AV	2.4835G	52.37	54.00	-1.63	21.26	3	Horizontal	252	1.11	-	27.83	3.28	-			

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

2452MHz_TX

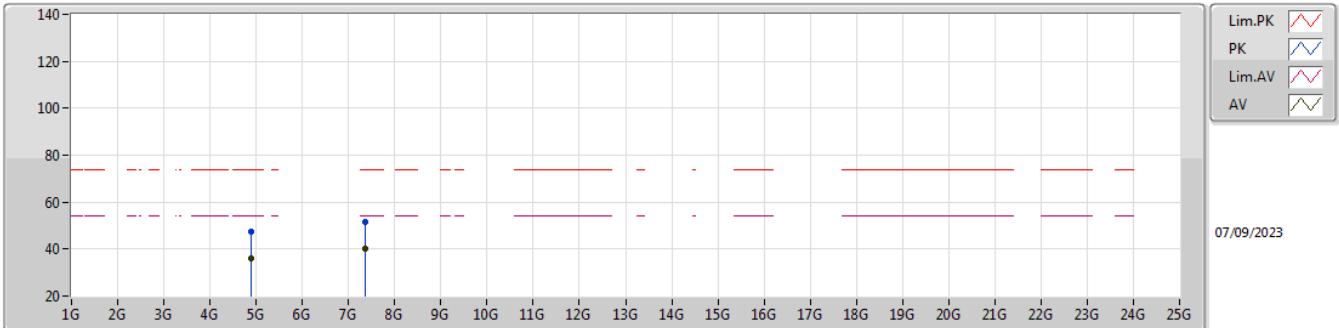


EUT Y_2TX
Setting 22
03-L-M-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.9138G	47.47	74.00	-26.53	42.00	3	Vertical	254	2.44	-	33.67	6.56	34.76			
AV	4.894G	35.95	54.00	-18.05	30.49	3	Vertical	254	2.44	-	33.66	6.55	34.75			
PK	7.35652G	51.77	74.00	-22.23	41.52	3	Vertical	346	1.43	-	36.90	8.70	35.35			
AV	7.35548G	40.20	54.00	-13.80	29.95	3	Vertical	346	1.43	-	36.90	8.70	35.35			

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

2452MHz_TX



EUT Y_2TX
Setting 22
03-L-M-2

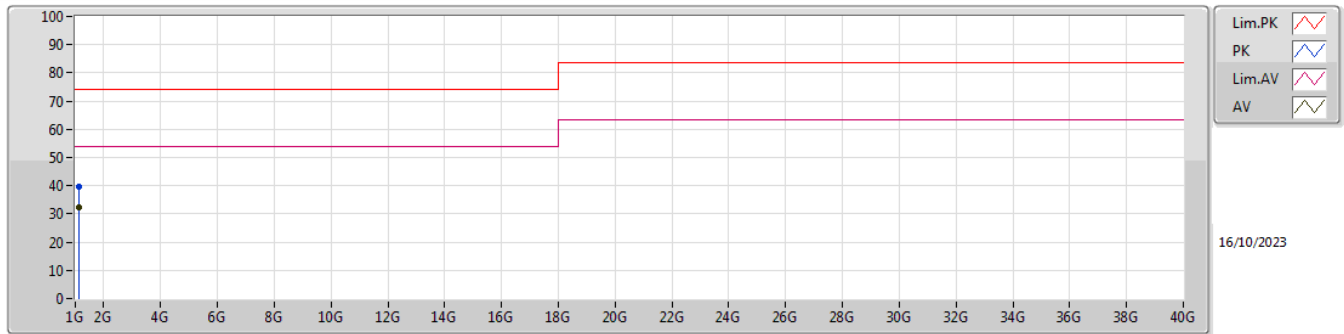
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)			
PK	4.89884G	47.36	74.00	-26.64	41.87	3	Horizontal	346	2.48	-	33.69	6.55	34.75			
AV	4.89576G	35.90	54.00	-18.10	30.43	3	Horizontal	346	2.48	-	33.67	6.55	34.75			
PK	7.35892G	51.66	74.00	-22.34	41.41	3	Horizontal	74	1.03	-	36.90	8.70	35.35			
AV	7.3562G	40.33	54.00	-13.67	30.08	3	Horizontal	74	1.03	-	36.90	8.70	35.35			



Summary

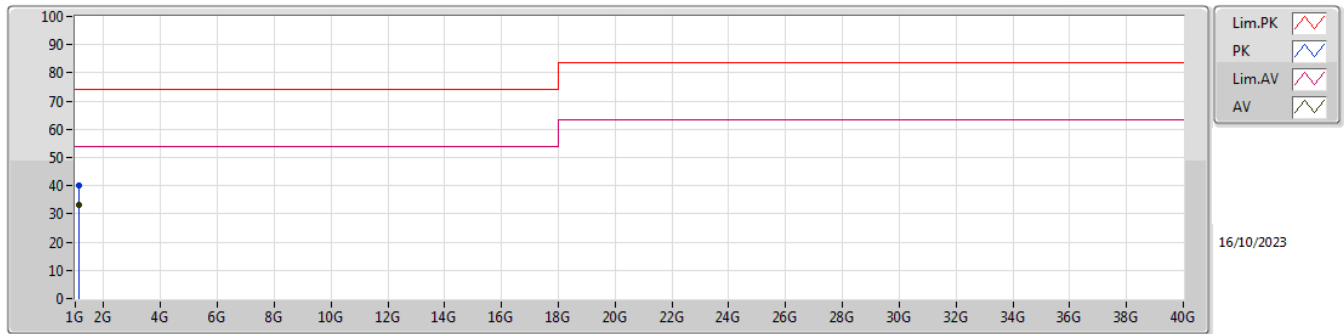
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.12477G	33.36	54.00	-20.64	Horizontal

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/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.12497G	39.64	74.00	-34.36	-7.51	3	Vertical	193	2.67	-	47.15	25.70	3.65	36.86		
AV	1.1248G	32.17	54.00	-21.83	-7.51	3	Vertical	193	2.67	"Worst"	39.68	25.70	3.65	36.86		

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/m)	AF (dB/m)	CL (dB)	PA (dB)		
PK	1.12509G	40.26	74.00	-33.74	-7.50	3	Horizontal	224	1.29	-	47.76	25.70	3.66	36.86		
AV	1.12477G	33.36	54.00	-20.64	-7.51	3	Horizontal	224	1.29	"Worst"	40.87	25.70	3.65	36.86		