

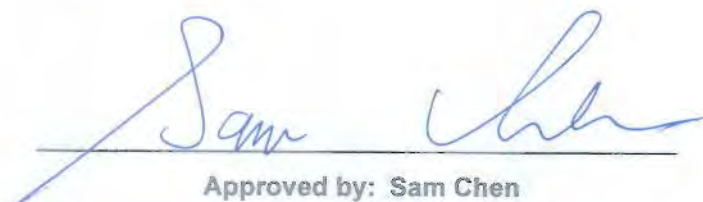


RADIO TEST REPORT

FCC ID : Z3WAIR4980
Equipment : Wi-Fi 6E Smart Mesh System
Brand Name : Airties
Model Name : Air 4980
Applicant : Airties Wireless Networks
Sehit Mehmet Mikdat Uluunlu Sokagi No:23
Esentepe, Sisli İstanbul, 34394 Turkey
Manufacturer : Airties Wireless Networks
Sehit Mehmet Mikdat Uluunlu Sokagi No:23
Esentepe, Sisli İstanbul, 34394 Turkey
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 11, 2022, and testing was started from Jan. 14, 2022 and completed on May 14, 2022. 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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History of this test report

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

Page Number : 3 of 34
Issued Date : Jun. 09, 2022
Report Version : 01



Summary of Test Result

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

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Viola Huang**



1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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.	2.4GHz port	5GHz port	6E port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	1	-	AirTies	A00	PCB antenna	N/A	Note 1
2	2	2	-	AirTies	A11	PCB antenna	N/A	
3	-	-	1	AirTies	A0X	PCB antenna	N/A	
4	-	-	2	AirTies	A1X	PCB antenna	N/A	
5	-	-	3	AirTies	A2X	PCB antenna	N/A	
6	-	-	4	AirTies	A3X	PCB antenna	N/A	

Note 1:

Ant.	Antenna Gain (dBi)								
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6E			
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8
1	3.36	1.62	2.35	1.37	1.01	-	-	-	-
2	4.06	1.92	1.59	0.54	2.18	-	-	-	-
3	-	-	-	-	-	2.40	1.29	1.05	3.33
4	-	-	-	-	-	3.01	2.18	1.57	2.00
5	-	-	-	-	-	3.06	2.14	1.20	2.68
6	-	-	-	-	-	1.30	1.61	2.56	2.70

Ant.	Directional Gain (dBi)									
	WLAN 2.4GHz		WLAN 5GHz							
			UNII 1		UNII 2A		UNII 2C		UNII 3	
	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S	2T1S	2T2S
1	4.66	1.65	3.10	0.11	3.34	0.33	2.66	-0.35	3.60	0.59
2										

Ant.	Directional Gain (dBi)											
	WLAN 6E											
	UNII 5			UNII 6			UNII 7			UNII 8		
	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
3	5.10	3.06	0.15	3.92	2.18	-1.09	3.57	2.56	-1.30	5.90	3.33	-0.03
4												
5												
6												

Note 2: The EUT has six antennas.

Note 3: The brand/model/antenna type information was declared by manufacturer.

Note 4: Maximum Directional Gain following KDB662911 D03.

The antenna report is provided in the operational description for this application.



For 2.4GHz:

For IEEE 802.11b/g/n/VHT/ax mode (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 UNII 1~3:

For IEEE 802.11a/n/ac/ax mode (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 UNII 5~8:

For IEEE 802.11ax mode (4TX/4RX):

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.



1.1.3 Mode Test Duty Cycle

For non beamforming mode

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.957	0.19	12.416m	100
802.11g	0.947	0.24	2.065m	1k

For beamforming mode

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF	0.975	0.11	2.921m	1k
802.11ax HEW40-BF	0.952	0.21	4.349m	300

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz, n/ac/ax in 5GHz UNII 1~UNII 3 and ax in 6GHz UNII 5~UNII 8.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	accessMtool (3.2.1.3)			
HW version	PCB-4980-D01-M01-R05			
SW version	4.127.8.0			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports function

Function	Supports type	Support Band
AP Router	Master	2.4GHz / 5GHz / 6E
Mesh	Master	6E

Note: The AP router was selected to test.



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 D03 v01
- ♦ 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 ISCED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Owen Hsu	19.8~20.9 / 60~65	Feb. 07, 2022~May 14, 2022
Radiated below 1GHz & Radiated above 1GHz (for co-location)	03CH05-CB	Eason Chen	21.5~22.6 / 55~59	Jan. 14, 2022
Radiated above 1GHz (for other tests)	03CH02-CB	Stim Sung	24.2~26.1 / 55~58	Jan. 22, 2022~May 11, 2022
AC Conduction	CO01-CB	Peter Wu	20~21 / 50~51	Jan. 21, 2022

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)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

For non beamforming mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	90
2437MHz	89
2462MHz	86
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	70
2417MHz	80
2437MHz	95
2457MHz	73
2462MHz	66

For beamforming mode

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	68
2417MHz	72
2437MHz	86
2457MHz	59
2462MHz	69
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	51
2437MHz	60
2452MHz	62

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 modes, after evaluating, the 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 (AP Router) + Adapter

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in X axis (AP Router) + Adapter
2	EUT in Y axis (AP Router) + Adapter
3	EUT in Z axis (AP Router) + Adapter
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 X axis. So the measurement will follow this same test configuration.
1	EUT in X 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 was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz, and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT in X axis-WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz
Refer to Sporton Test Report No.: FA211129 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

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

The program was executed as follows:

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

For Normal Link Mode:

During the test, the EUT operation to normal function.



2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	MOSO	MS-V2000R120-024H0-US	INPUT: 100-240V, 50/60Hz, 0.7A max. OUTPUT 12.0V, 2.0A
Others			
RJ-45 cable*1, non-shielded, 1.5m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN PC	DELL	T3400	N/A
B	2.5G WAN PC	DELL	T3400	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	6G NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	(LAN Port) Notebook	DELL	E4300	N/A
B	(WAN Port) Notebook	DELL	E4300	N/A
C	(2.4G WiFi) Notebook	DELL	E4300	N/A
D	(5G WiFi) Notebook	DELL	E4300	N/A
E	(6G WiFi) Notebook	DELL	E4300	N/A



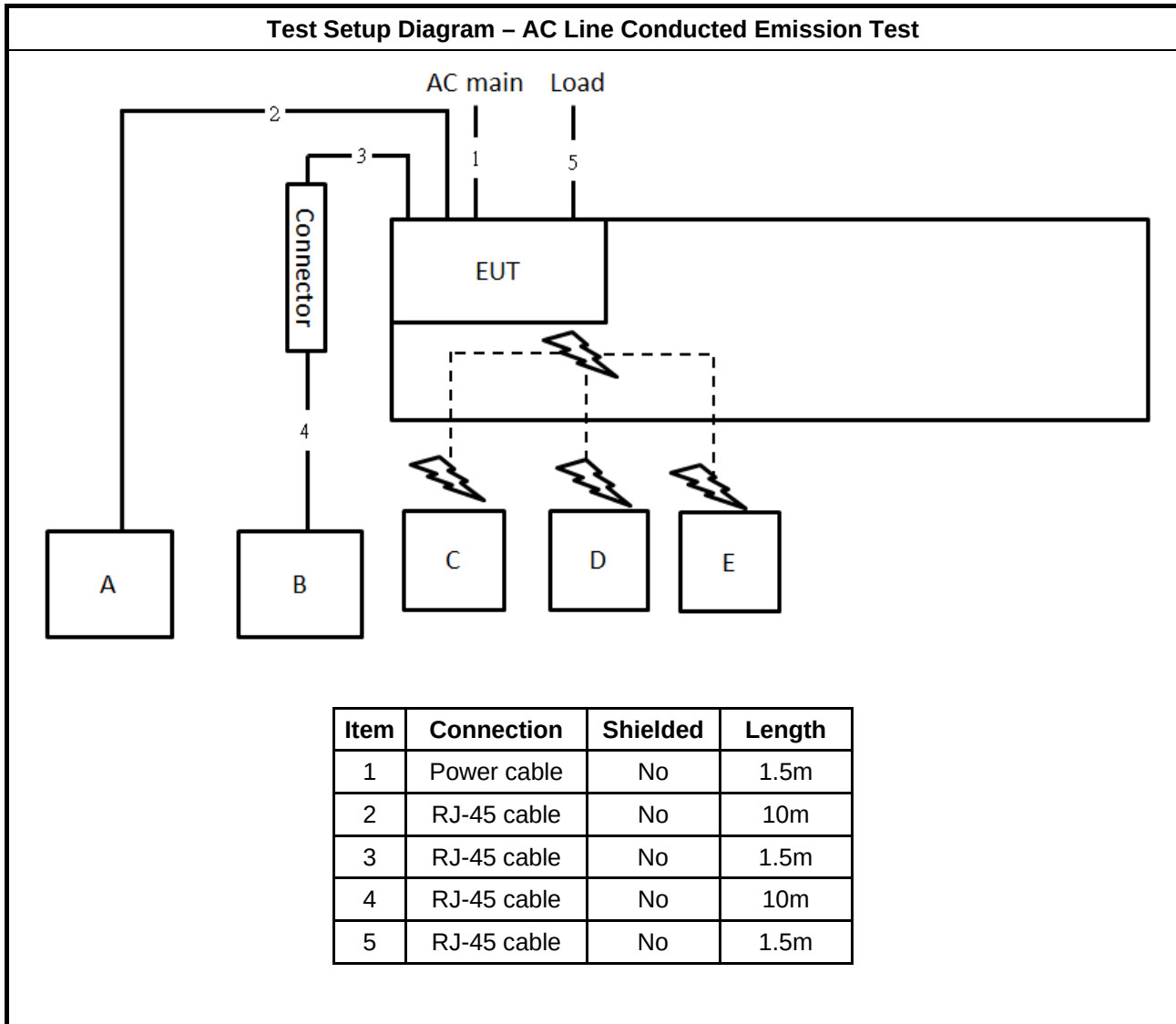
**For Radiated (above 1GHz) and RF Conducted:
For non beamforming mode**

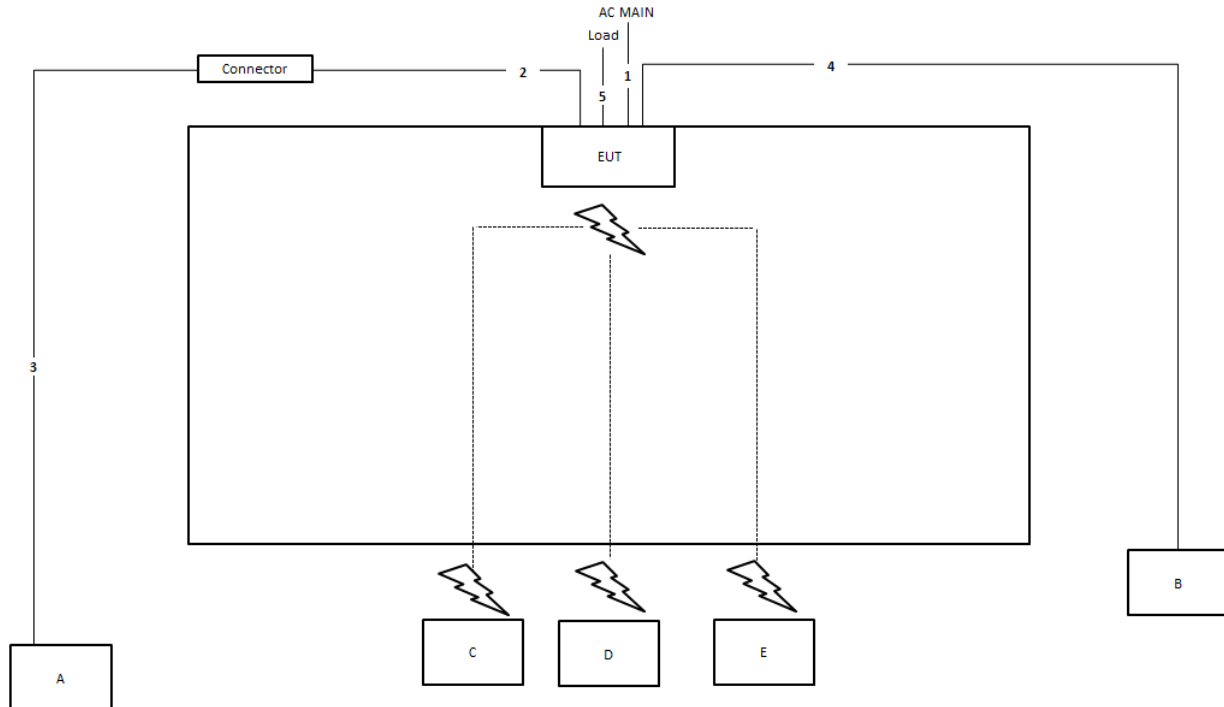
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For beamforming mode

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	WLAN module	Intel	AX210NGW	PD9AX210NG

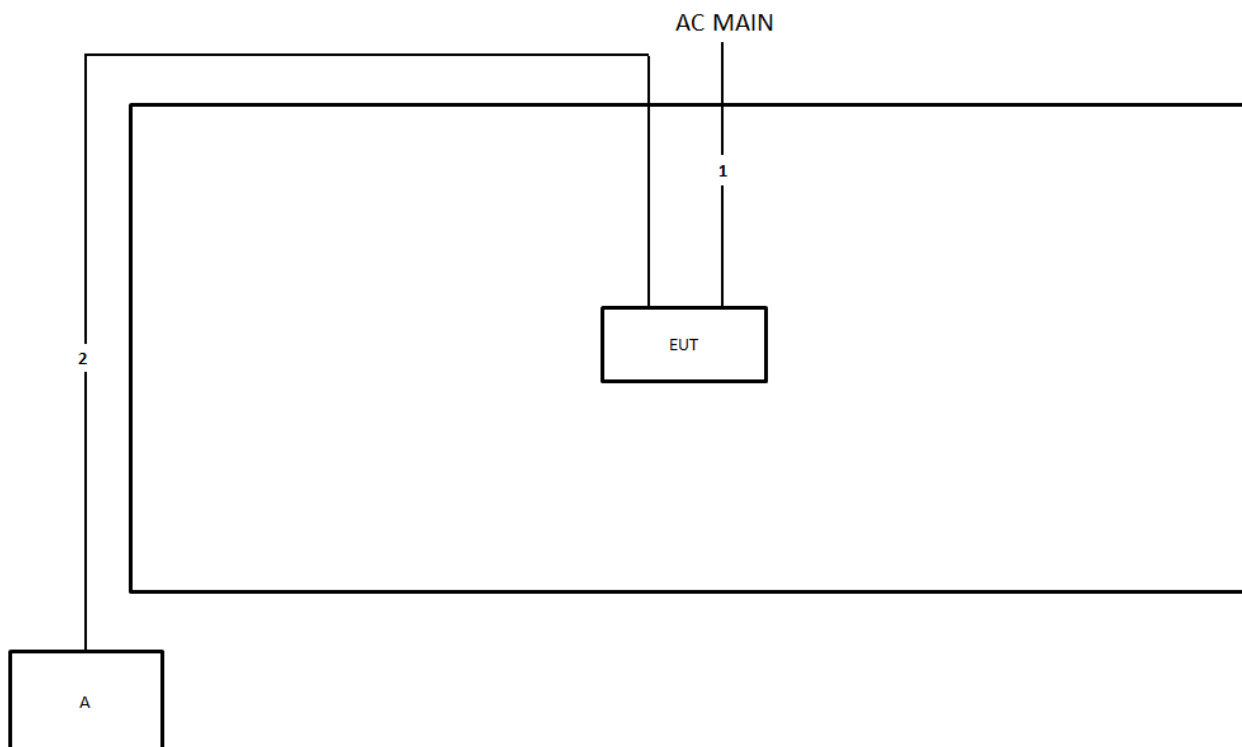
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


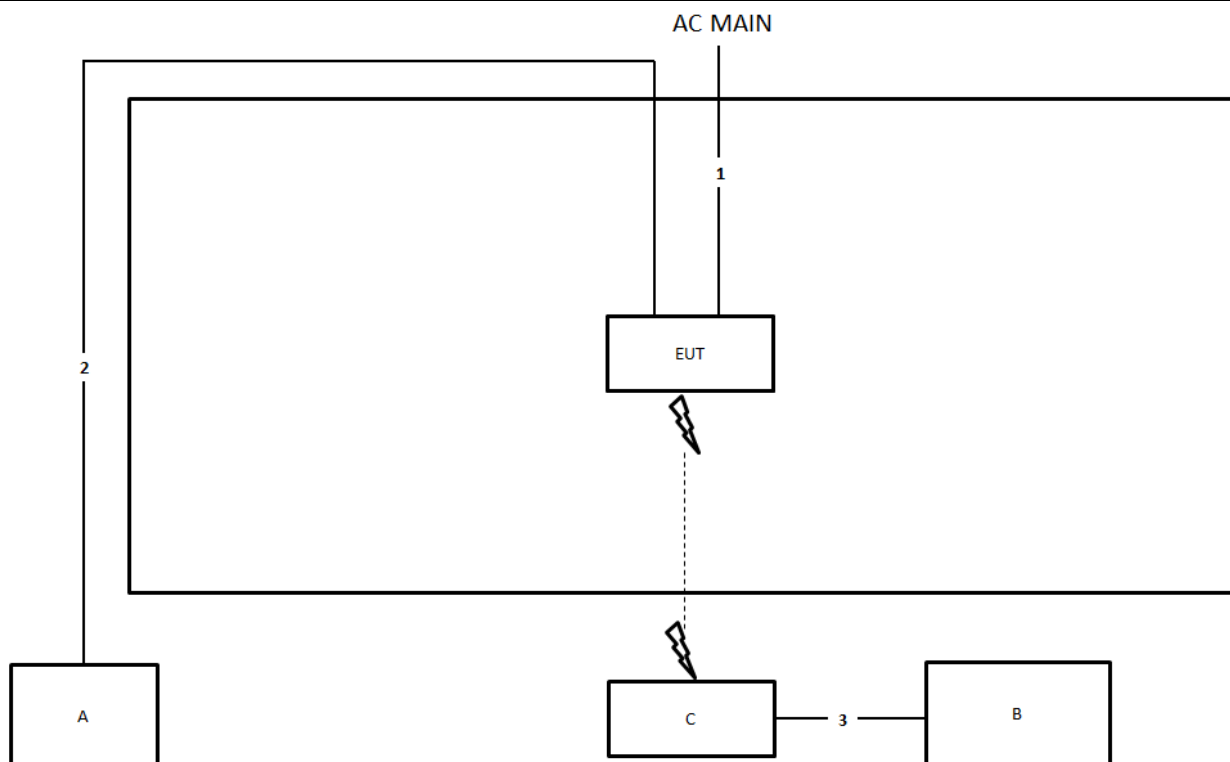
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz / for non beamforming mode



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

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



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



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.

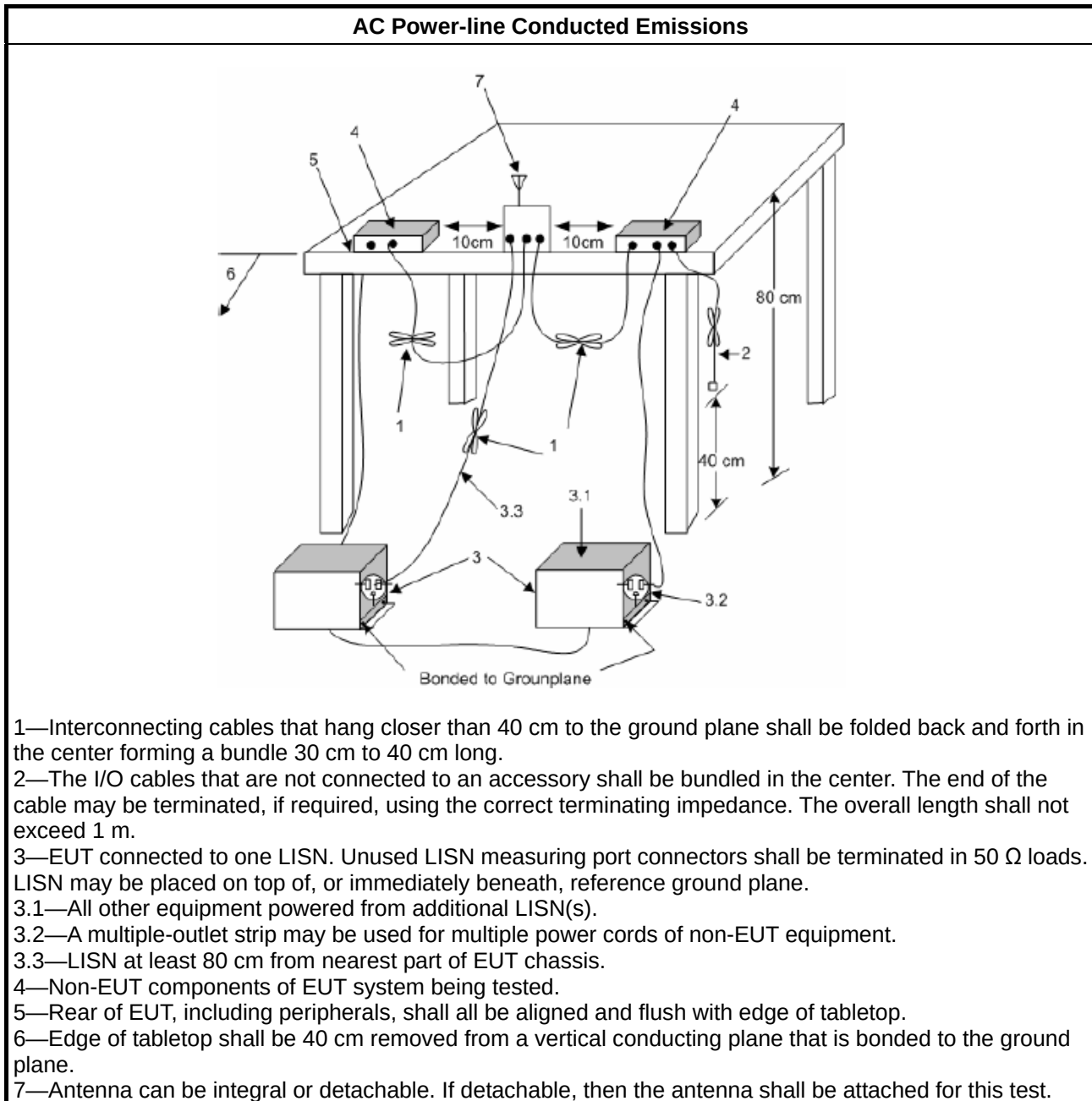
3.1.2 Measuring Instruments

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:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

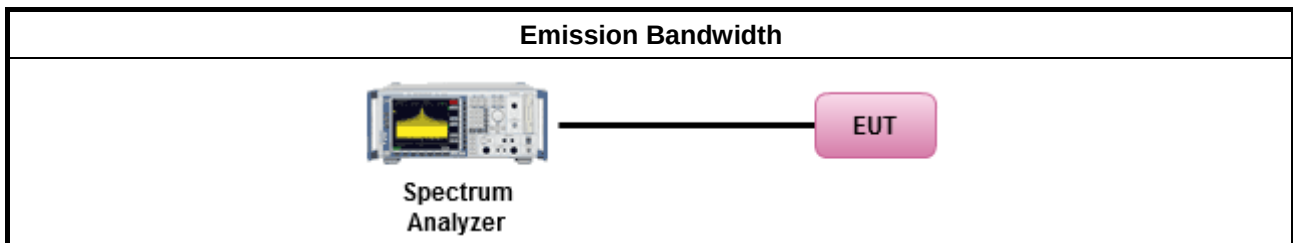
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

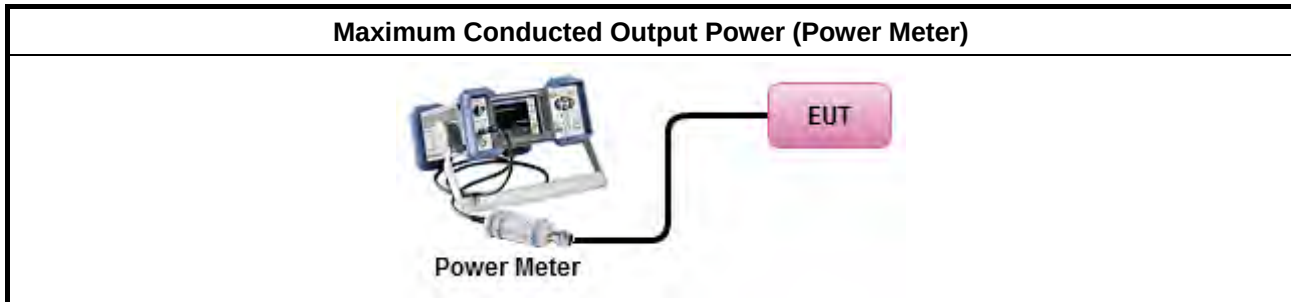
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

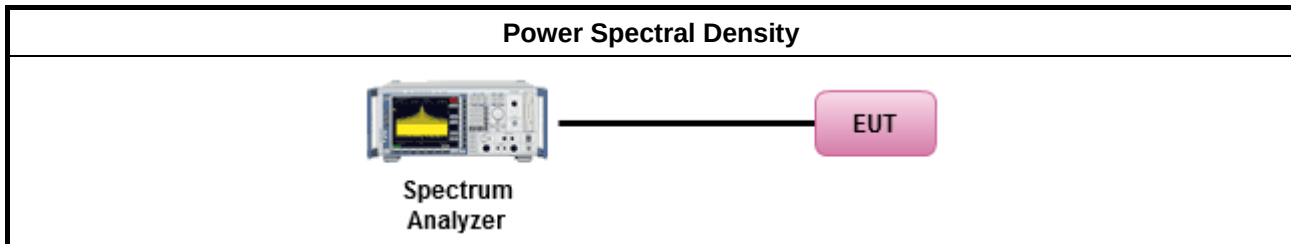
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

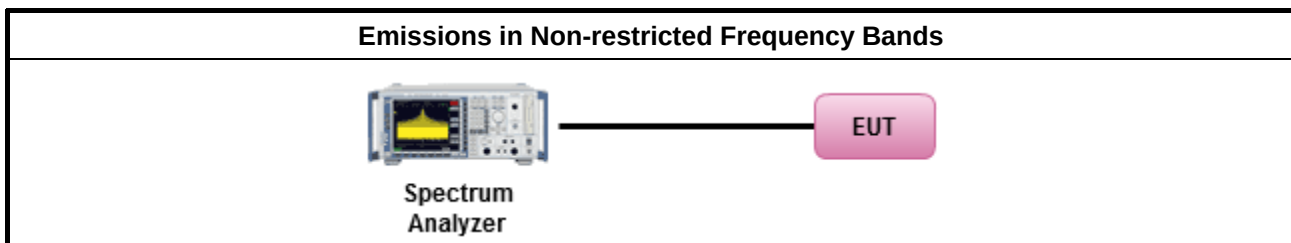
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

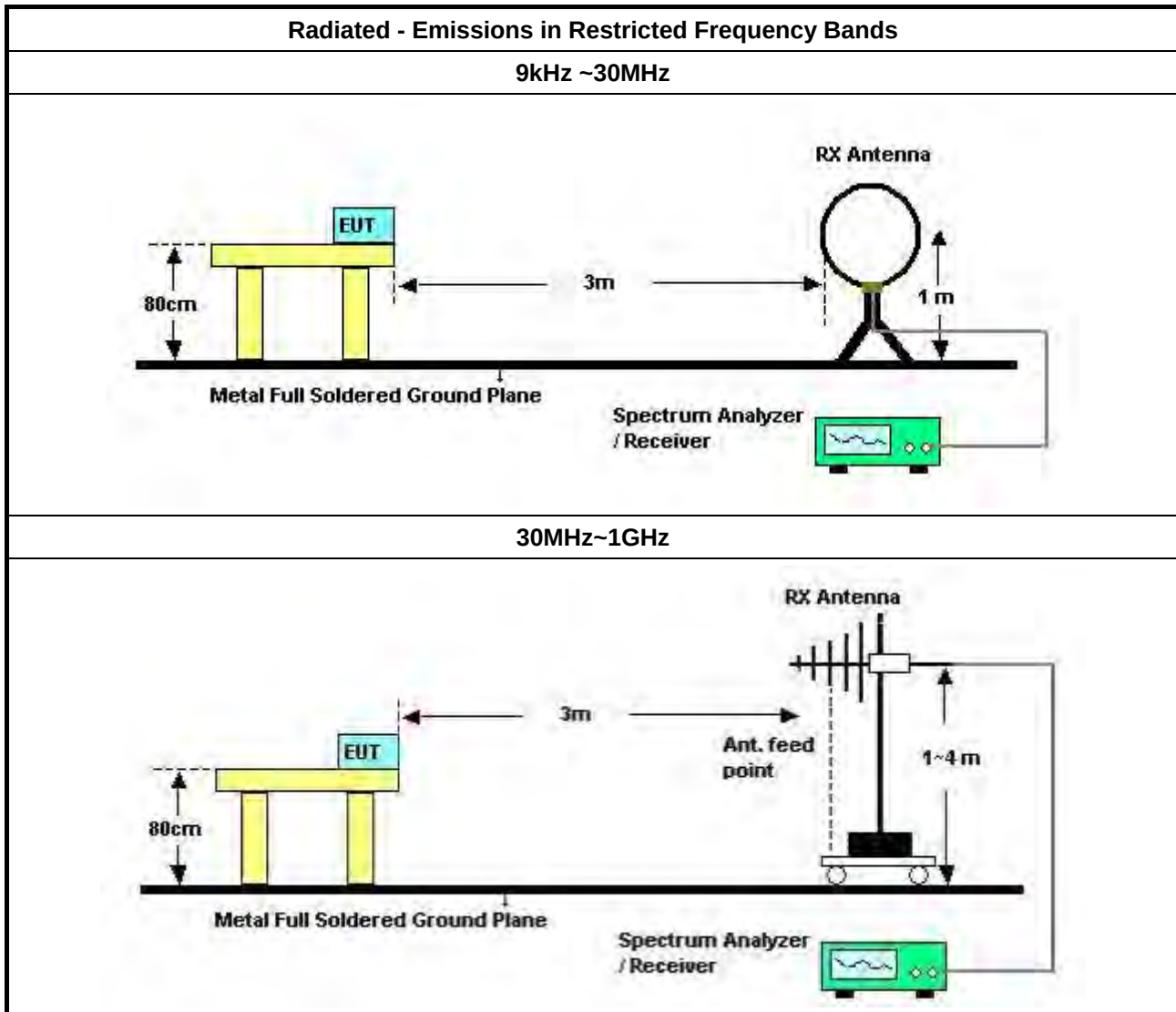
Refer a test equipment and calibration data table in this test report.

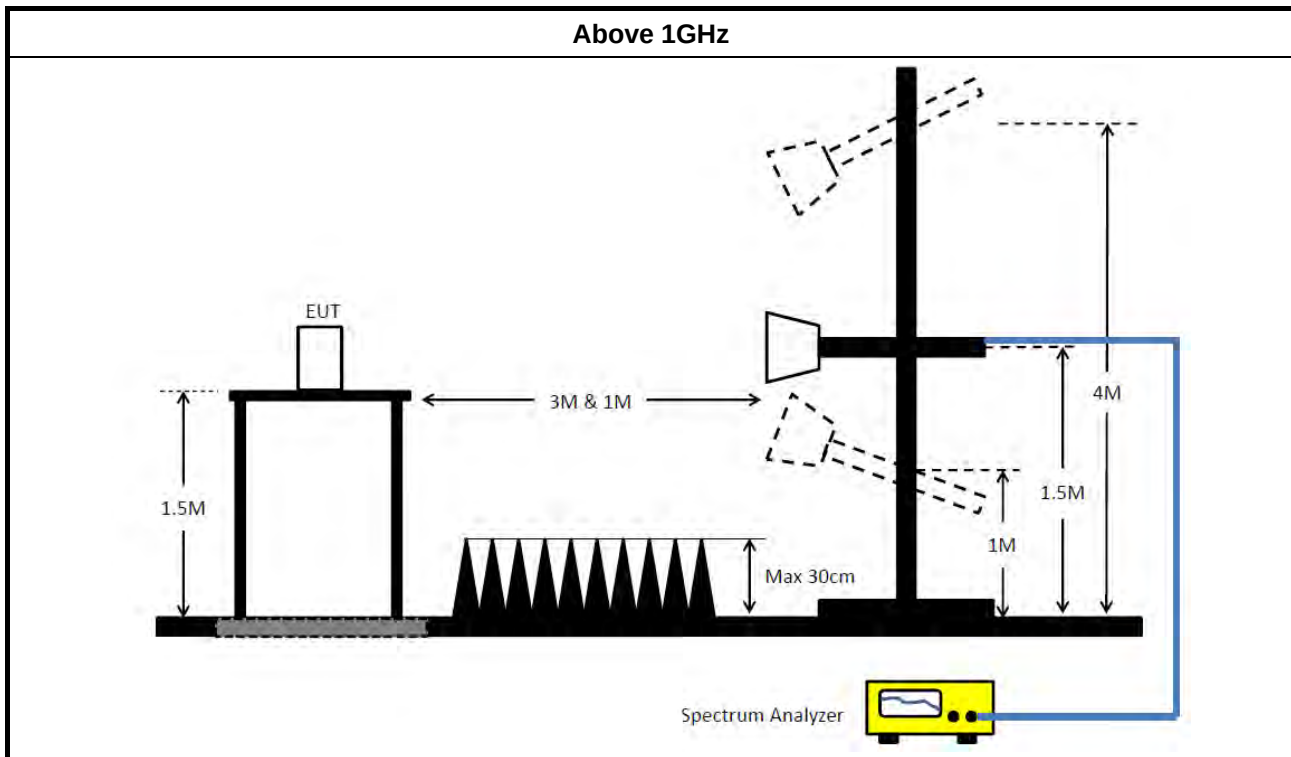


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Oct. 14, 2021	Oct. 13, 2022	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 21, 2021	May 20, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 06, 2021	Sep. 05, 2022	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

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



Conducted Emissions at Powerline

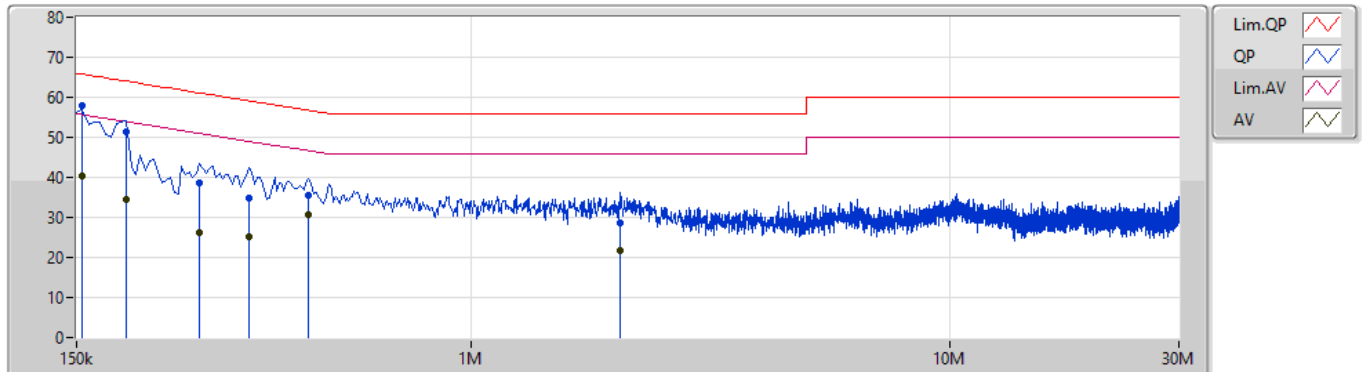
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.5k	57.94	65.75	-7.81	Line

Mode 1

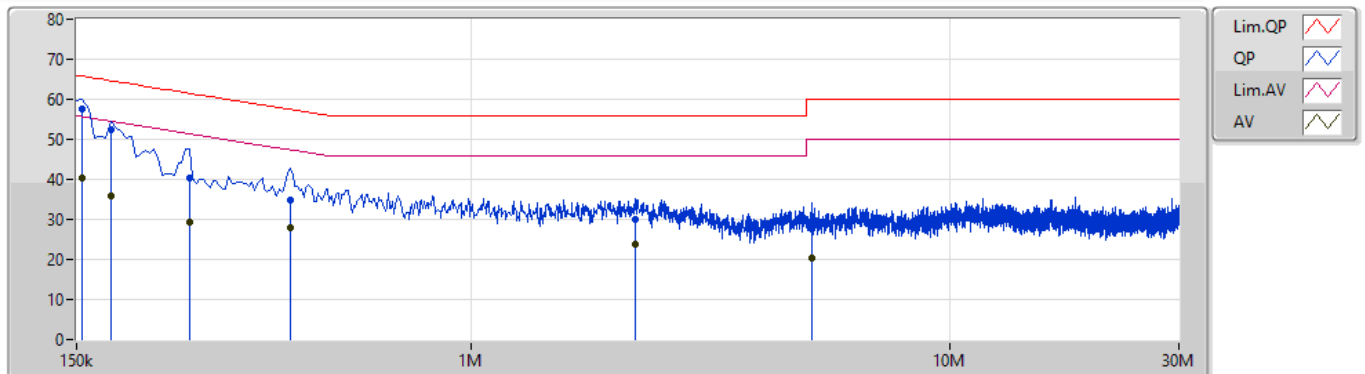
21/01/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	57.94	65.75	-7.81	9.89	Line	"Worst"	48.05	0.04	0.04	9.81			
AV	154.5k	40.38	55.75	-15.37	9.89	Line	-	30.49	0.04	0.04	9.81			
QP	190.5k	51.26	64.01	-12.75	9.89	Line	-	41.37	0.04	0.04	9.81			
AV	190.5k	34.50	54.01	-19.51	9.89	Line	-	24.61	0.04	0.04	9.81			
QP	271.5k	38.58	61.07	-22.49	9.89	Line	-	28.69	0.04	0.04	9.81			
AV	271.5k	26.35	51.07	-24.72	9.89	Line	-	16.46	0.04	0.04	9.81			
QP	343.5k	34.97	59.12	-24.15	9.90	Line	-	25.07	0.04	0.04	9.82			
AV	343.5k	25.03	49.12	-24.09	9.90	Line	-	15.13	0.04	0.04	9.82			
QP	456k	35.53	56.76	-21.23	9.90	Line	-	25.63	0.04	0.04	9.82			
AV	456k	30.77	46.76	-15.99	9.90	Line	-	20.87	0.04	0.04	9.82			
QP	2.049M	28.60	56.00	-27.40	9.98	Line	-	18.62	0.09	0.07	9.82			
AV	2.049M	21.69	46.00	-24.31	9.98	Line	-	11.71	0.09	0.07	9.82			

Mode 1

21/01/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	57.70	65.75	-8.05	9.88	Neutral	"Worst"	47.82	0.03	0.04	9.81			
AV	154.5k	40.42	55.75	-15.33	9.88	Neutral	-	30.54	0.03	0.04	9.81			
QP	177k	52.26	64.62	-12.36	9.88	Neutral	-	42.38	0.03	0.04	9.81			
AV	177k	35.91	54.62	-18.71	9.88	Neutral	-	26.03	0.03	0.04	9.81			
QP	258k	40.26	61.49	-21.23	9.88	Neutral	-	30.38	0.03	0.04	9.81			
AV	258k	29.43	51.49	-22.06	9.88	Neutral	-	19.55	0.03	0.04	9.81			
QP	420k	34.88	57.45	-22.57	9.89	Neutral	-	24.99	0.03	0.04	9.82			
AV	420k	28.10	47.45	-19.35	9.89	Neutral	-	18.21	0.03	0.04	9.82			
QP	2.207M	29.86	56.00	-26.14	9.98	Neutral	-	19.88	0.07	0.08	9.83			
AV	2.207M	23.65	46.00	-22.35	9.98	Neutral	-	13.67	0.07	0.08	9.83			
QP	5.136M	27.44	60.00	-32.56	10.14	Neutral	-	17.30	0.13	0.13	9.88			
AV	5.136M	20.38	50.00	-29.62	10.14	Neutral	-	10.24	0.13	0.13	9.88			

For non beamforming mode

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	8M	12.119M	12M1G1D	6.575M	11.644M
802.11g_Nss1,(6Mbps)_2TX	16.35M	21.439M	21M4D1D	16.3M	16.767M

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	7.025M	12.094M	7.075M	12.119M
2437MHz	Pass	500k	8M	12.069M	7.025M	12.069M
2462MHz	Pass	500k	6.575M	11.869M	7.075M	11.644M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.817M	16.325M	16.792M
2437MHz	Pass	500k	16.3M	21.439M	16.35M	21.364M
2462MHz	Pass	500k	16.325M	16.817M	16.3M	16.767M

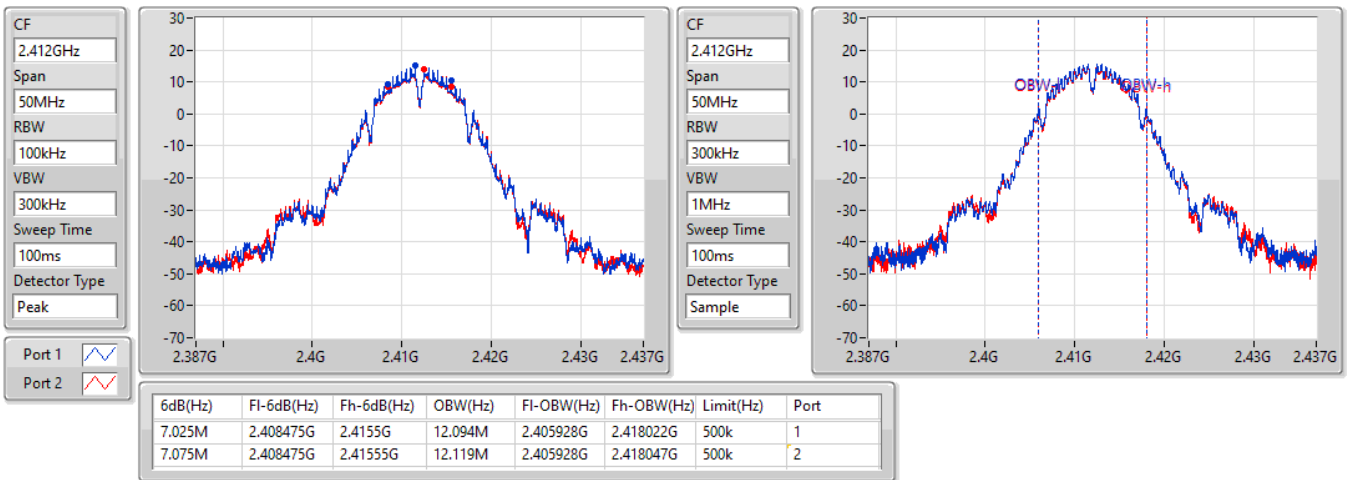
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX

EBW

2412MHz

08/02/2022

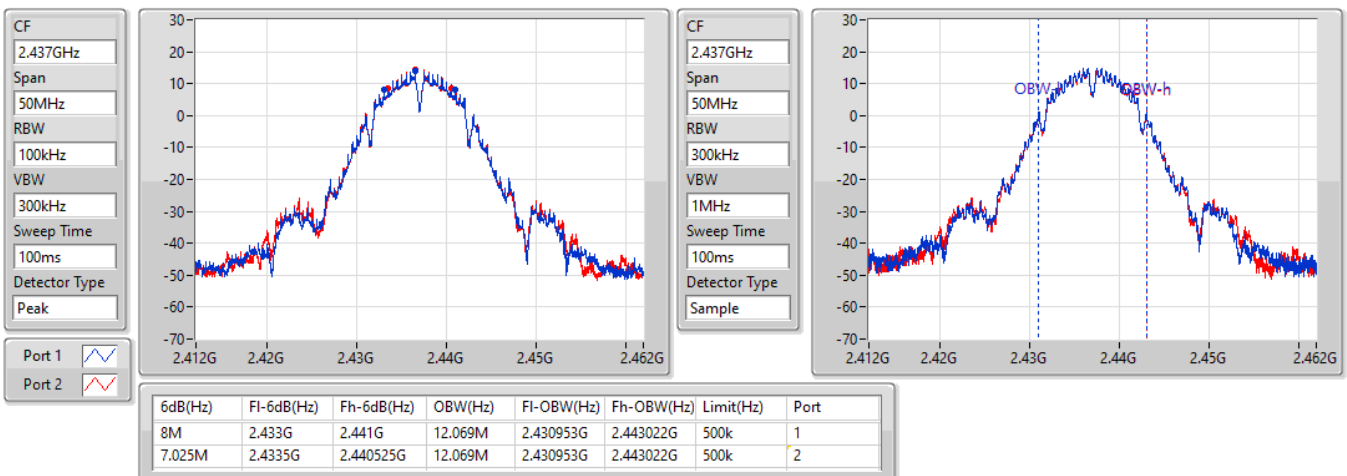


802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

08/02/2022

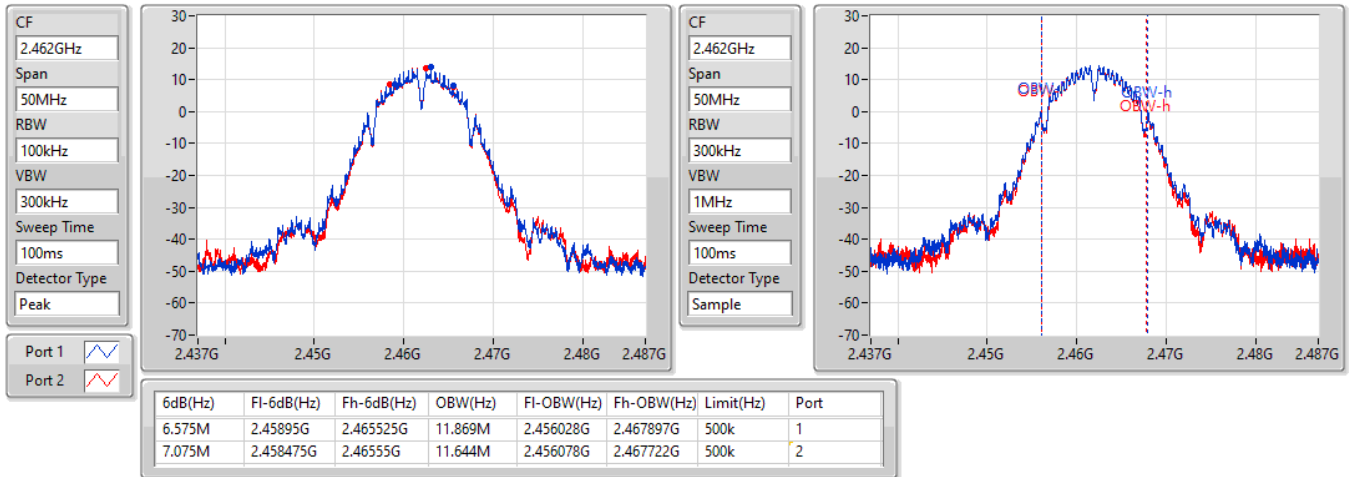


802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

08/02/2022

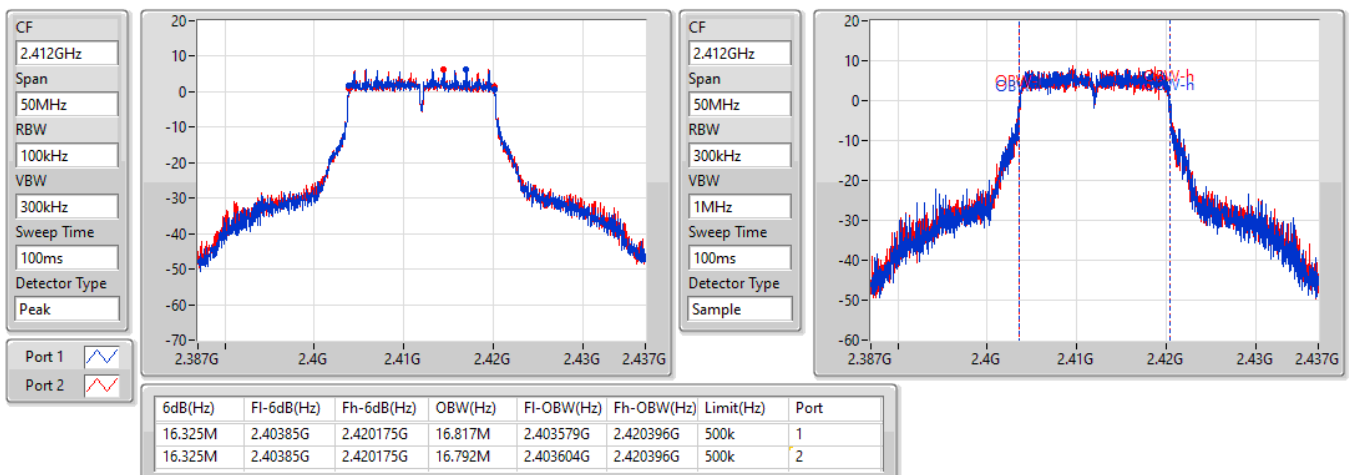


802.11g_Nss1,(6Mbps)_2TX

EBW

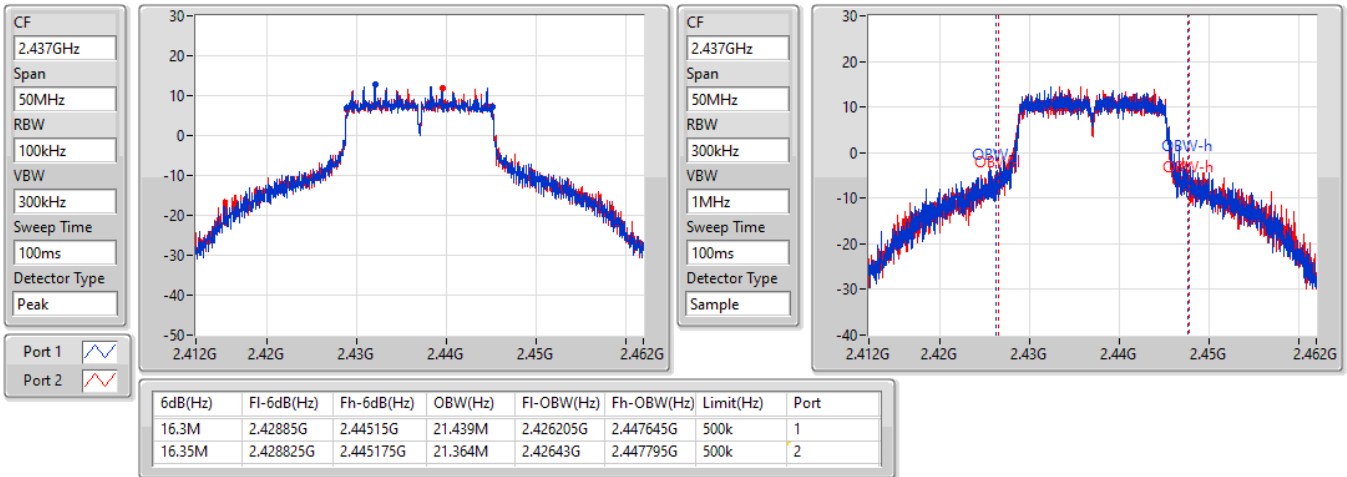
2412MHz

08/02/2022

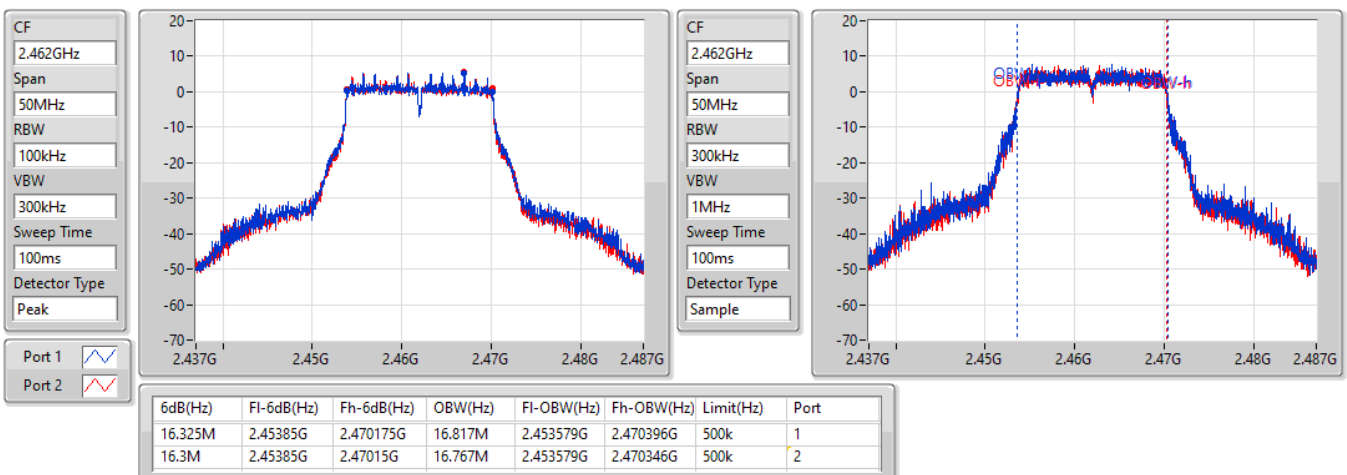


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

08/02/2022


802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

08/02/2022



For beamforming mode

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.95M	19.19M	19M2D1D	18.725M	19.015M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.6M	37.781M	37M8D1D	37M	37.731M

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

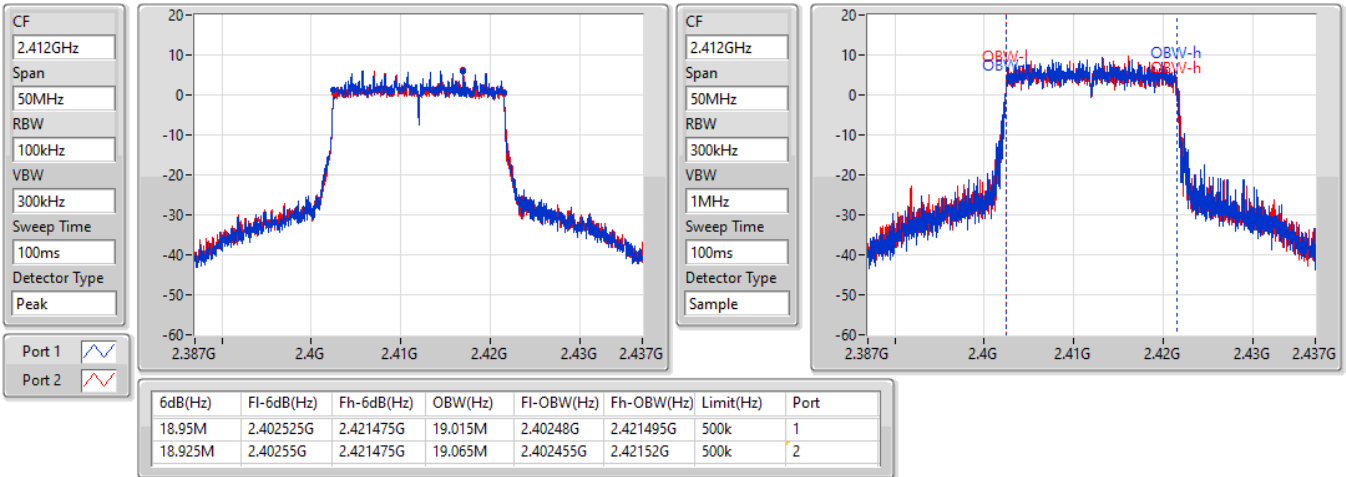
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.95M	19.015M	18.925M	19.065M
2437MHz	Pass	500k	18.85M	19.19M	18.725M	19.14M
2462MHz	Pass	500k	18.95M	19.04M	18.825M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.4M	37.731M	37.55M	37.731M
2437MHz	Pass	500k	37.05M	37.781M	37M	37.781M
2452MHz	Pass	500k	37.4M	37.781M	37.6M	37.781M

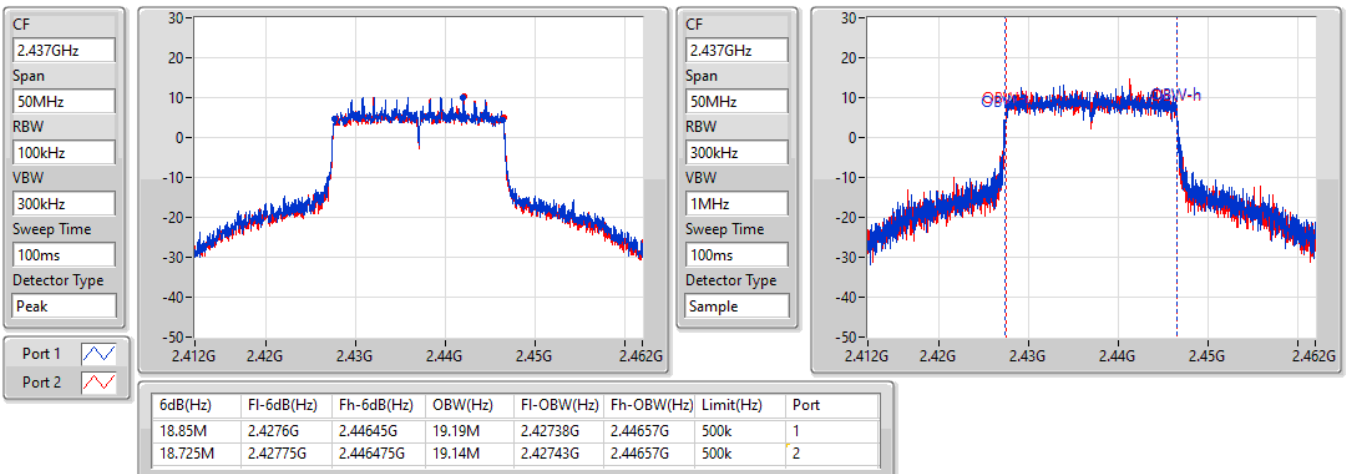
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

08/02/2022

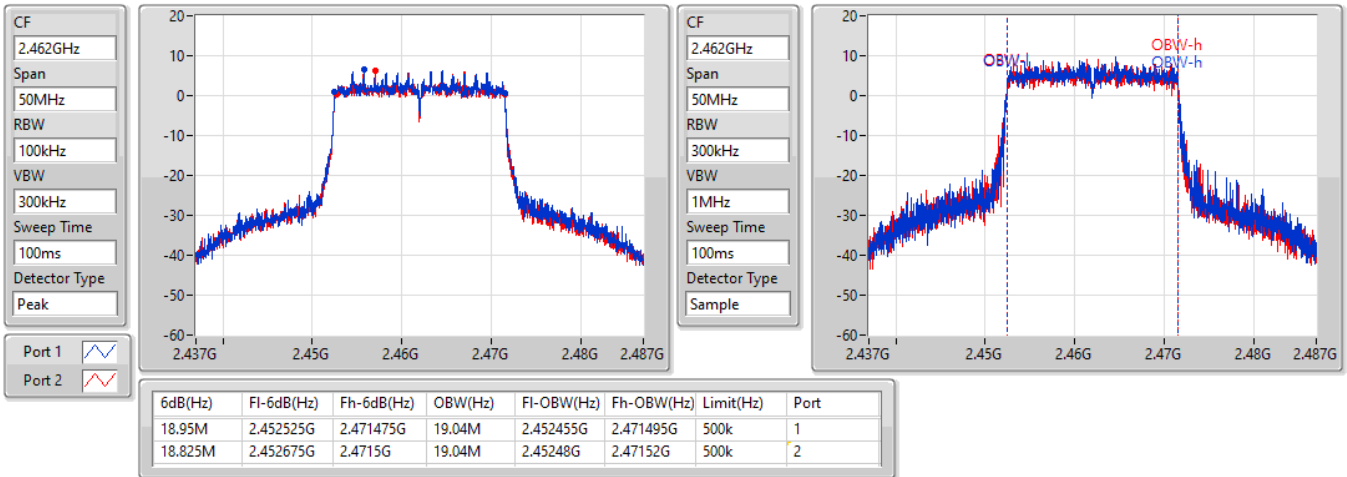

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

08/02/2022

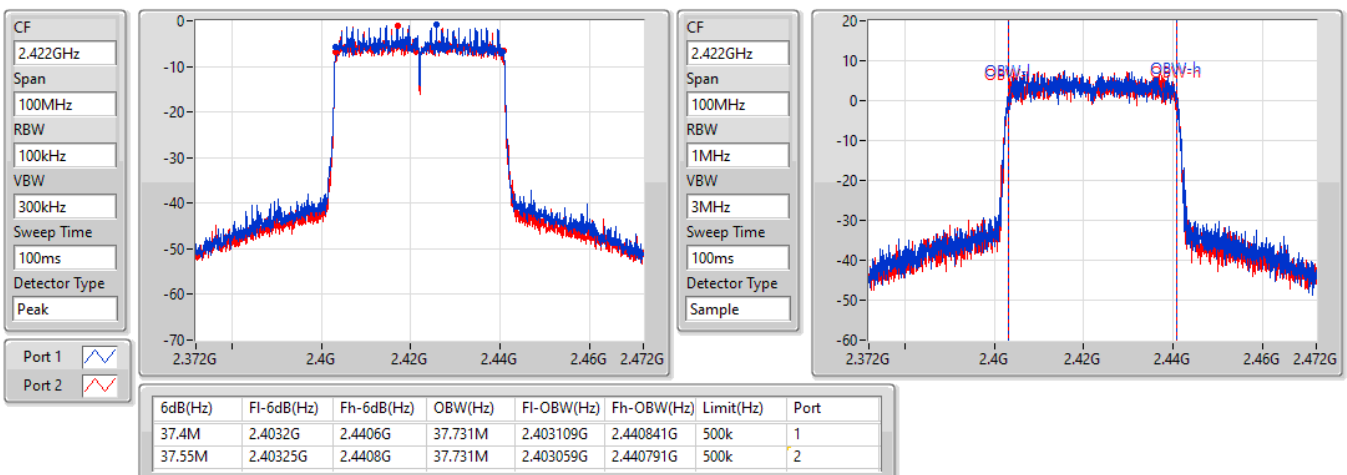


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

08/02/2022


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

08/02/2022

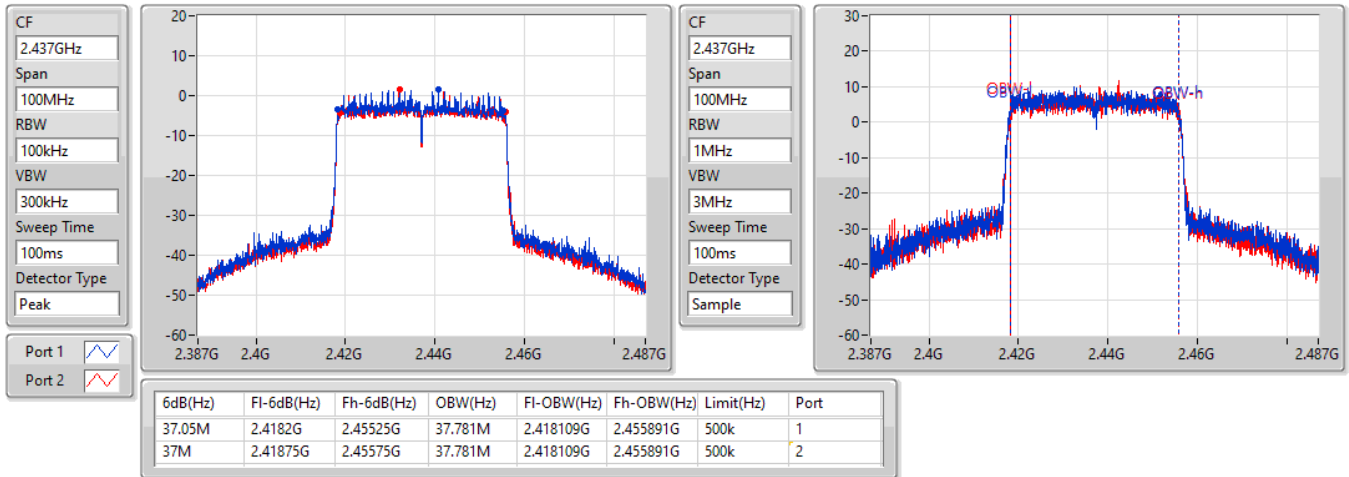


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2437MHz

08/02/2022

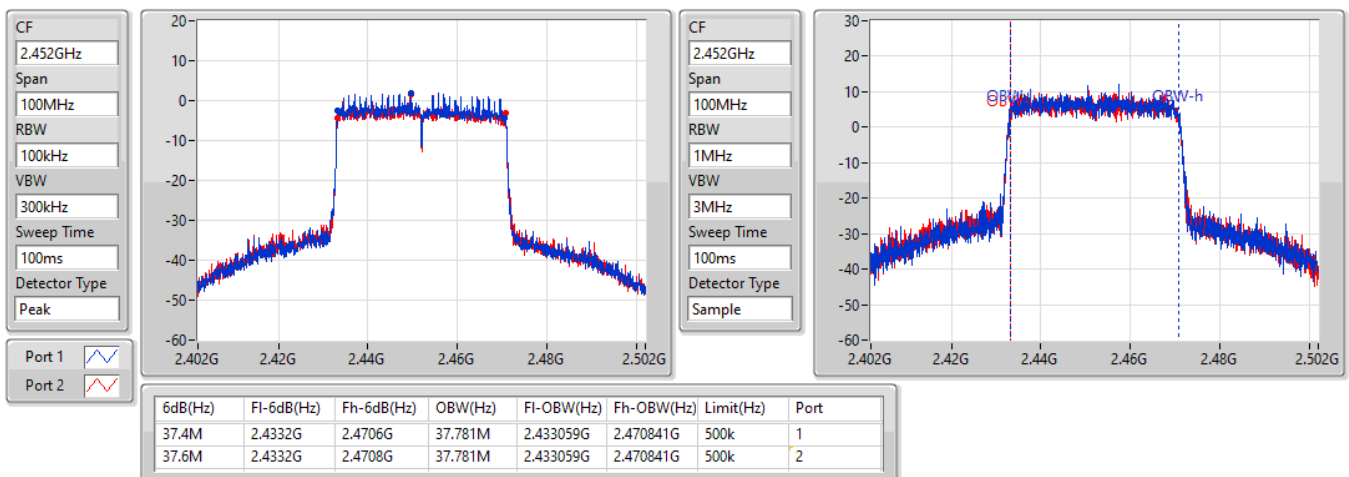


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

EBW

2452MHz

08/02/2022





Average Power

Appendix C.1

For non beamforming mode

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.61	0.36392
802.11g_Nss1,(6Mbps)_2TX	26.18	0.41495

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.06	22.77	22.42	25.61	30.00
2437MHz	Pass	4.06	22.37	22.18	25.29	30.00
2462MHz	Pass	4.06	21.79	21.55	24.68	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.06	17.87	17.76	20.83	30.00
2417MHz	Pass	4.06	20.01	19.84	22.94	30.00
2437MHz	Pass	4.06	23.19	23.14	26.18	30.00
2457MHz	Pass	4.06	18.46	18.26	21.37	30.00
2462MHz	Pass	4.06	16.85	16.66	19.77	30.00

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



Average Power

Appendix C.2

For beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.31	0.26977
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.10	0.08128



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.66	17.76	17.49	20.64	30.00
2417MHz	Pass	4.66	18.55	18.51	21.54	30.00
2437MHz	Pass	4.66	21.31	21.28	24.31	30.00
2457MHz	Pass	4.66	15.81	15.34	18.59	30.00
2462MHz	Pass	4.66	17.95	17.80	20.89	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.66	13.63	13.31	16.48	30.00
2437MHz	Pass	4.66	15.79	15.44	18.63	30.00
2452MHz	Pass	4.66	16.16	16.02	19.10	30.00

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

For non beamforming mode
Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.71
802.11g_Nss1,(6Mbps)_2TX	1.21

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	4.66	0.24	-0.68	1.71	8.00
2437MHz	Pass	4.66	-0.38	-1.03	1.51	8.00
2462MHz	Pass	4.66	-0.37	-1.13	0.80	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.66	-8.05	-6.56	-4.55	8.00
2437MHz	Pass	4.66	-2.07	-1.55	1.21	8.00
2462MHz	Pass	4.66	-9.20	-8.02	-5.84	8.00

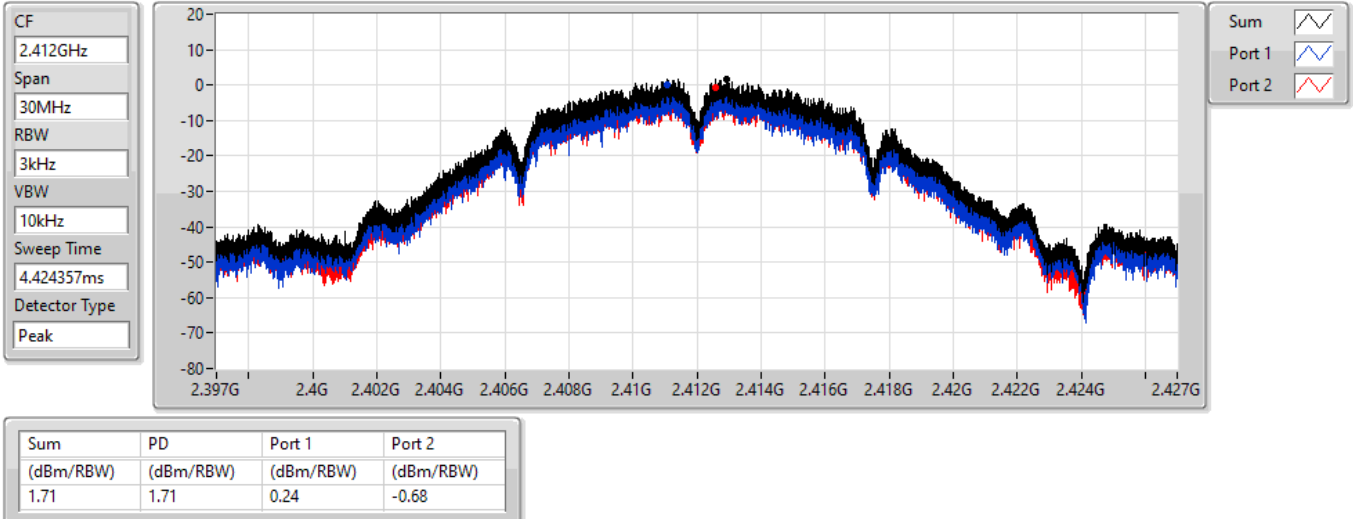
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

08/02/2022

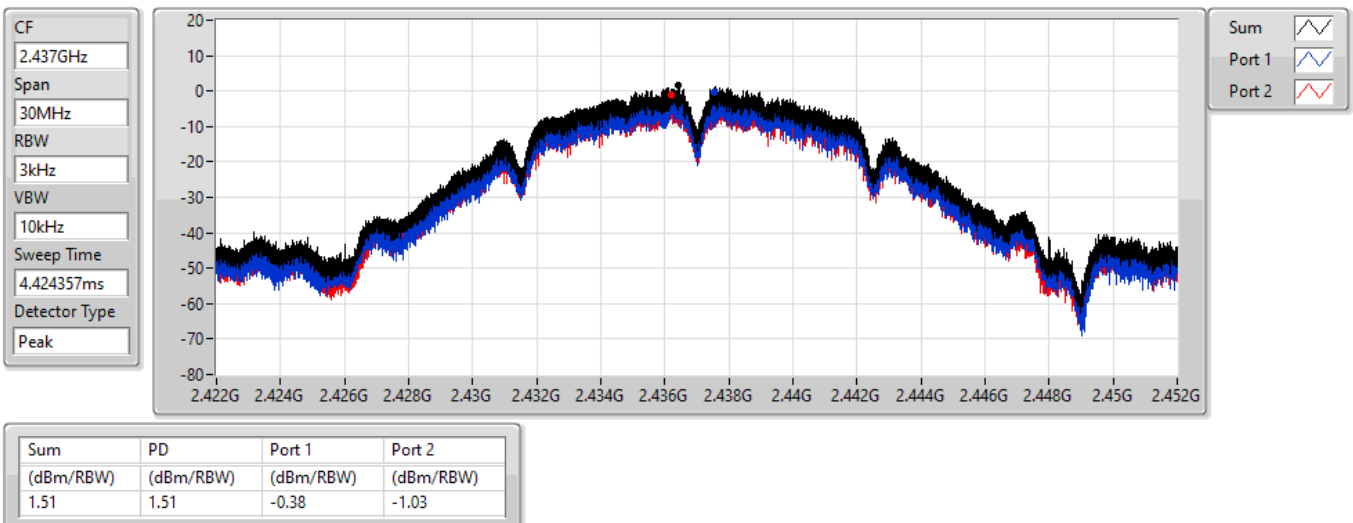


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

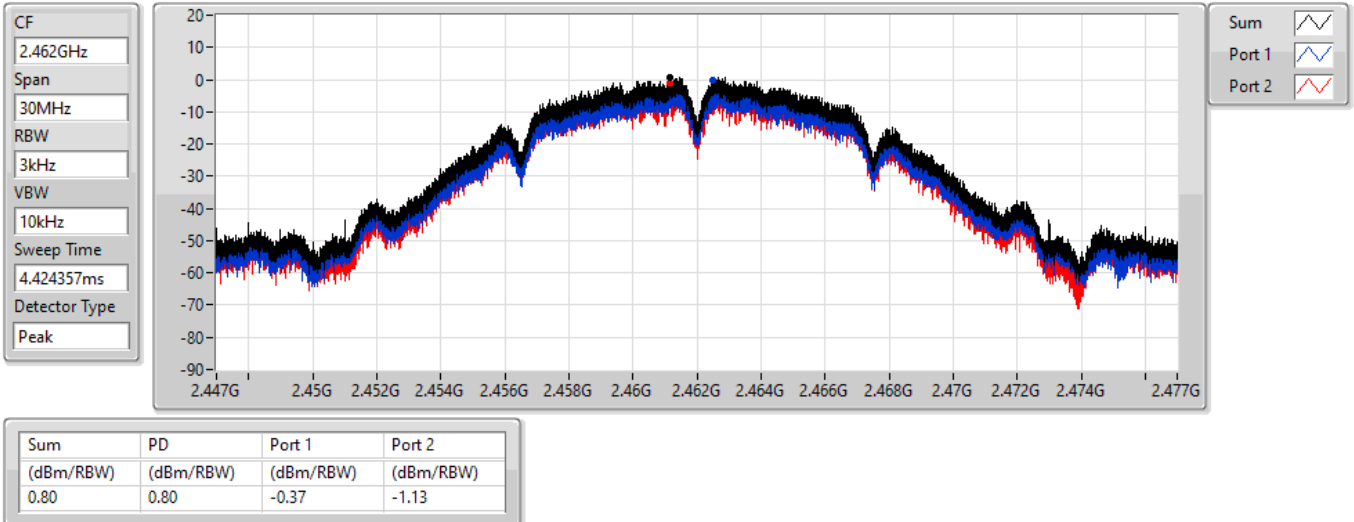
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802.11b_Nss1,(1Mbps)_2TX

2462MHz

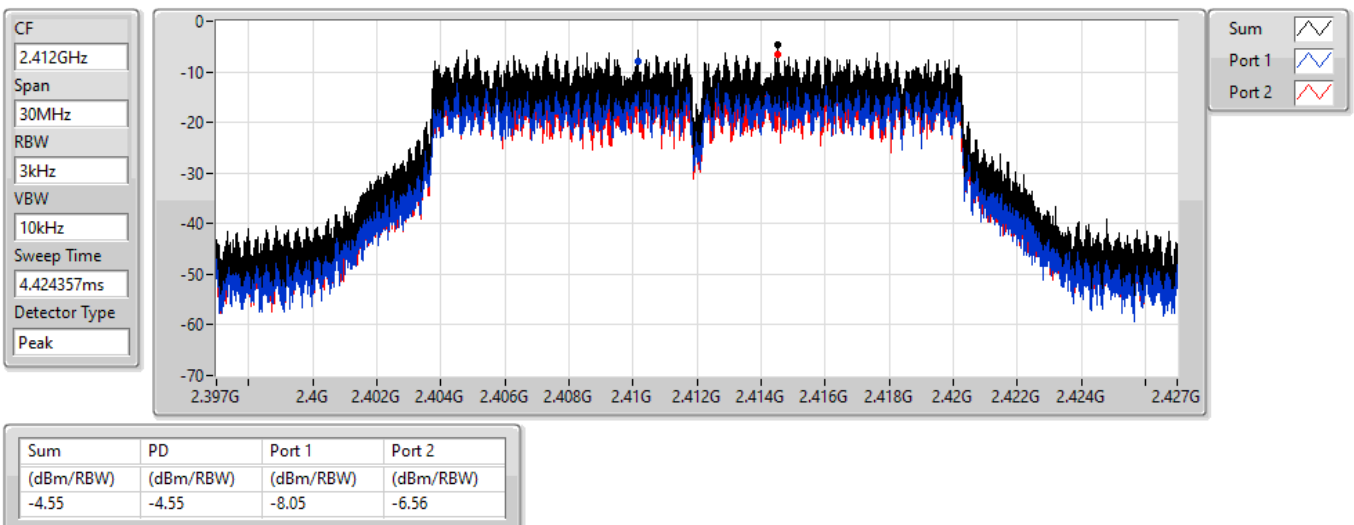
08/02/2022



802.11g_Nss1,(6Mbps)_2TX

2412MHz

08/02/2022

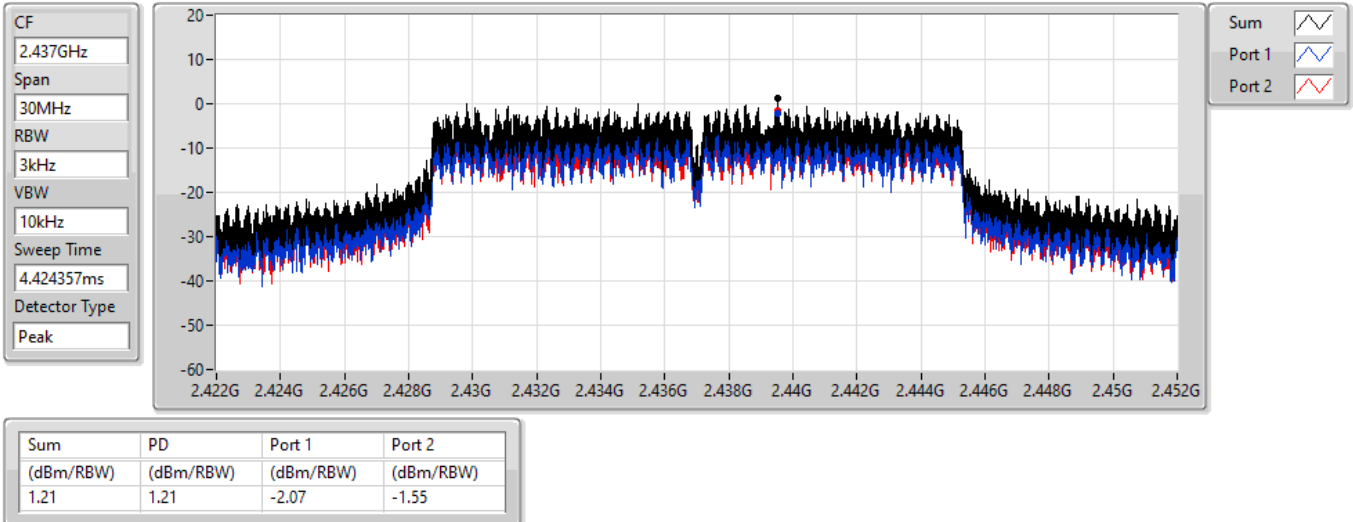


802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

08/02/2022

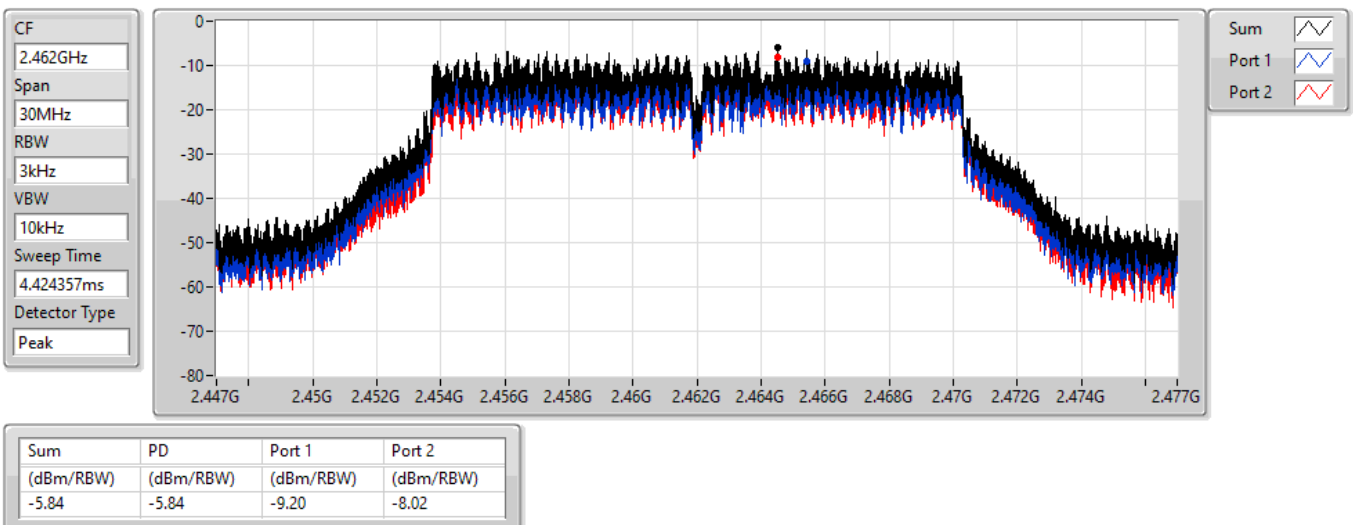


802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

08/02/2022



For beamforming mode
Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-0.62
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-10.50

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.66	-8.45	-7.55	-4.97	8.00
2437MHz	Pass	4.66	-3.75	-3.51	-0.62	8.00
2462MHz	Pass	4.66	-9.27	-8.12	-6.22	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.66	-15.51	-15.29	-12.39	8.00
2437MHz	Pass	4.66	-13.54	-13.37	-10.50	8.00
2452MHz	Pass	4.66	-12.56	-13.53	-10.72	8.00

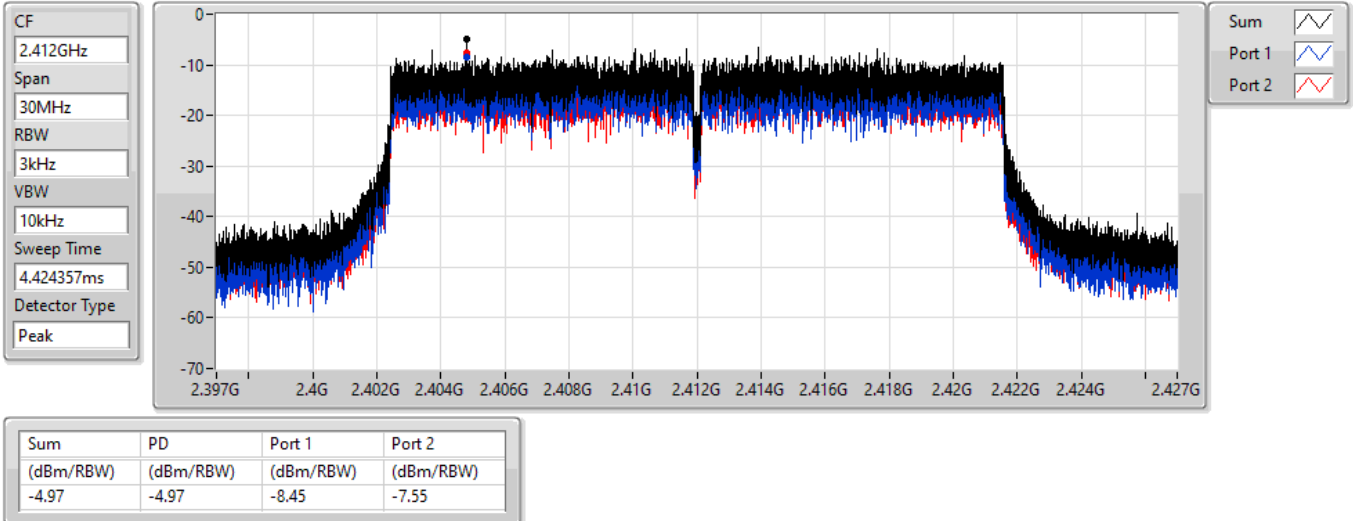
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

08/02/2022

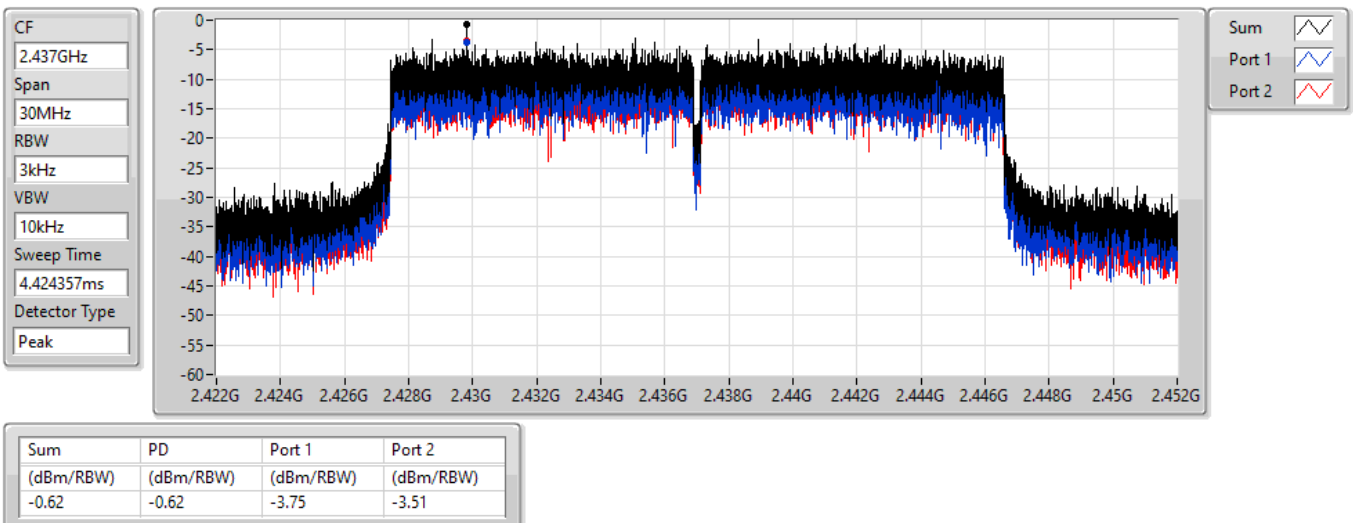


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

08/02/2022

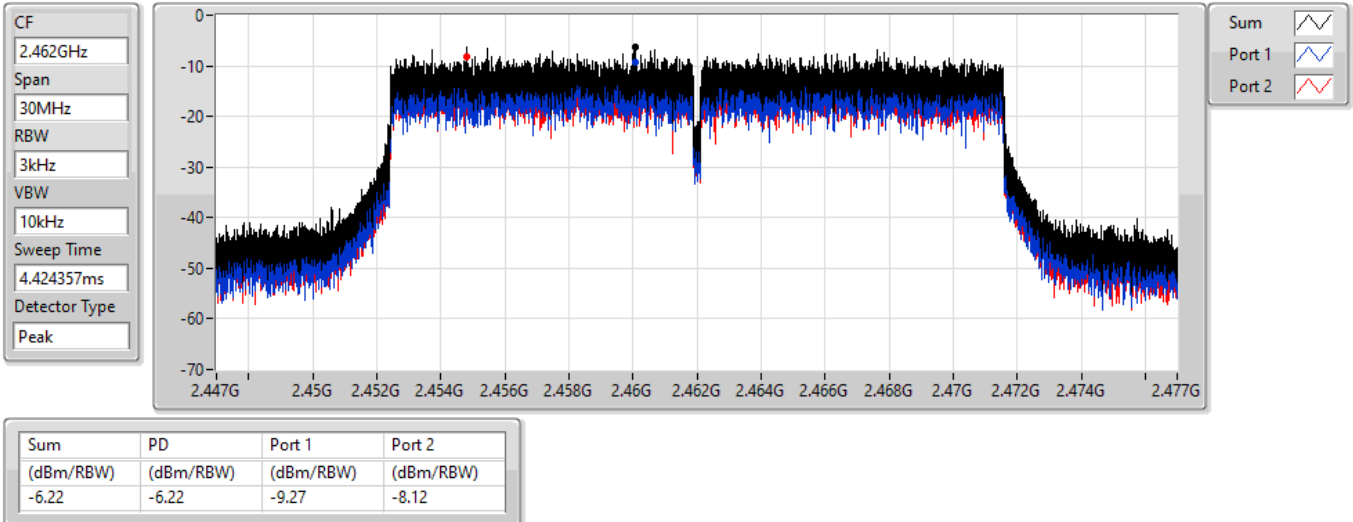


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

08/02/2022

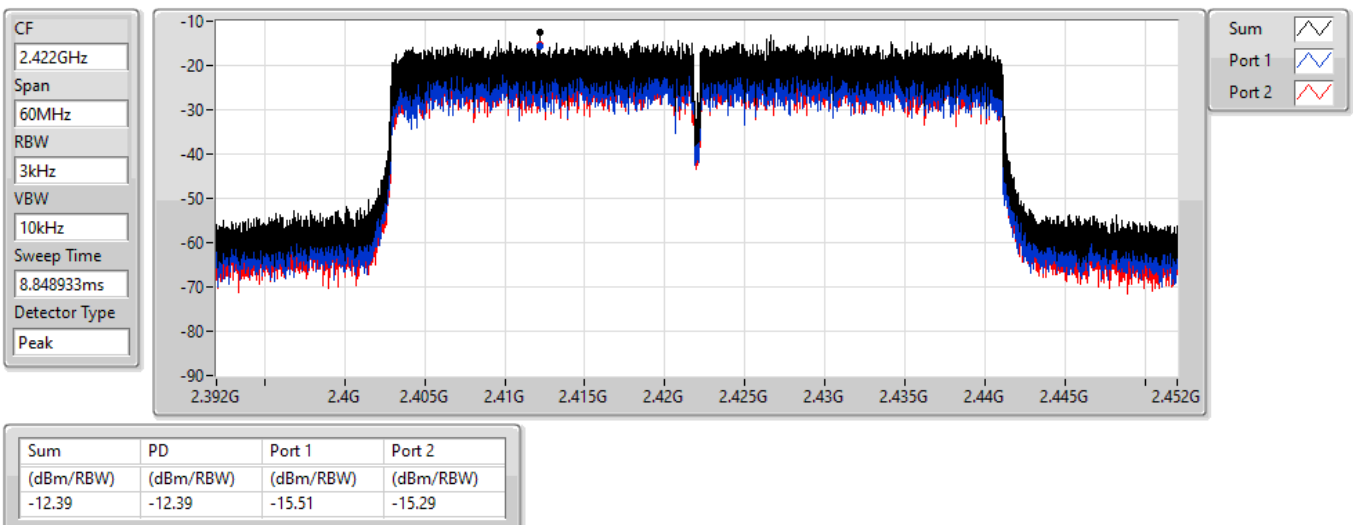


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

08/02/2022

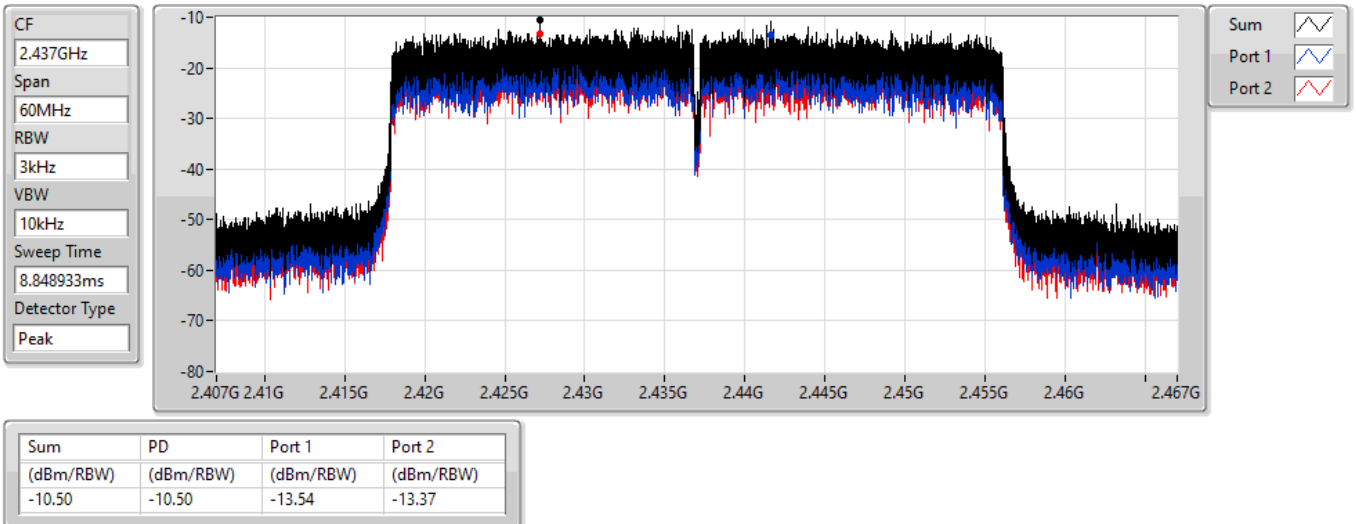


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

08/02/2022

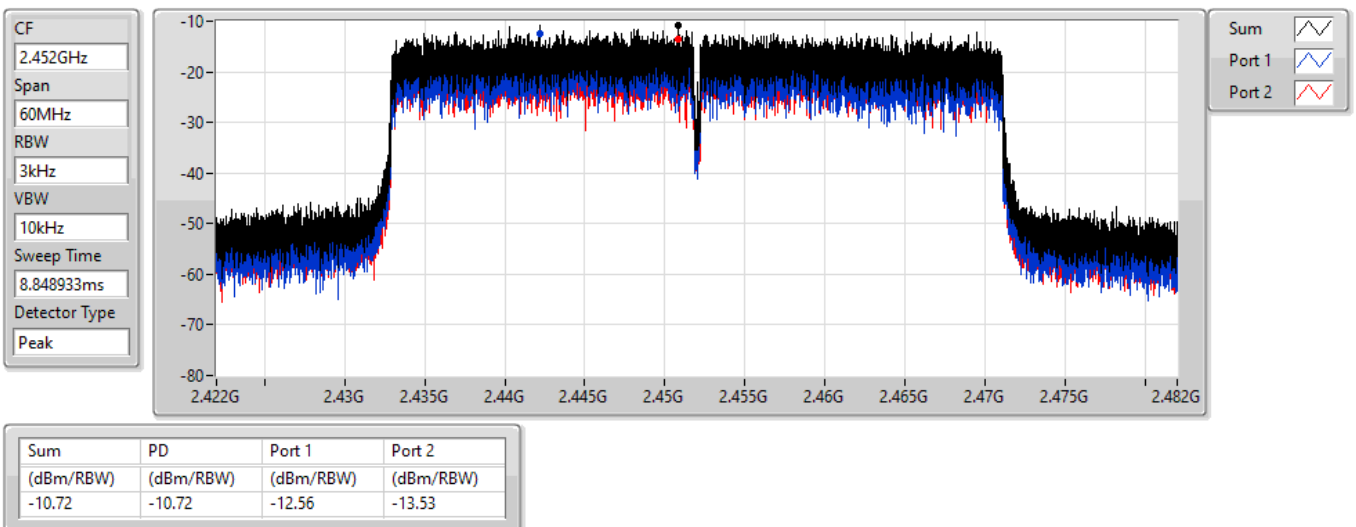


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz

08/02/2022





For non beamforming mode

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	2.41248G	15.29	-14.71	159.9M	-38.99	2.39852G	-25.88	2.4G	-26.79	2.51338G	-49.14	7.23514G	-32.31	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.442G	12.84	-17.16	159.9M	-39.54	2.39986G	-26.50	2.4G	-29.98	2.49402G	-50.02	7.22671G	-41.09	2

**Result**

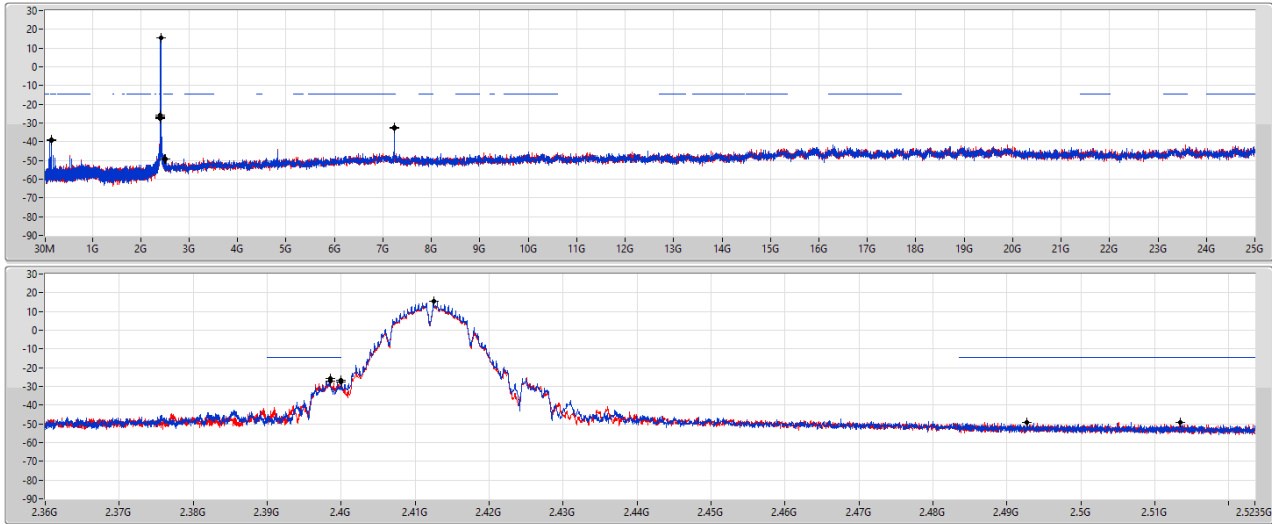
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41248G	15.29	-14.71	159.9M	-39.45	2.39852G	-27.21	2.4G	-27.51	2.49266G	-48.99	7.23795G	-32.59	1
2412MHz	Pass	2.41248G	15.29	-14.71	159.9M	-38.99	2.39852G	-25.88	2.4G	-26.79	2.51338G	-49.14	7.23514G	-32.31	2
2437MHz	Pass	2.41248G	15.29	-14.71	159.9M	-39.13	2.4G	-47.33	2.4G	-48.03	2.4855G	-47.48	24.95224G	-41.94	1
2437MHz	Pass	2.41248G	15.29	-14.71	159.9M	-38.97	2.3915G	-47.35	2.4G	-48.50	2.48522G	-47.80	24.99438G	-42.61	2
2462MHz	Pass	2.41248G	15.29	-14.71	159.9M	-38.83	2.39704G	-48.85	2.4835G	-44.68	2.4835G	-42.72	15.31544G	-42.72	1
2462MHz	Pass	2.41248G	15.29	-14.71	159.9M	-39.87	2.39724G	-48.67	2.4835G	-47.00	2.4845G	-43.46	24.58418G	-42.32	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	12.84	-17.16	159.9M	-39.54	2.39988G	-27.31	2.4G	-29.89	2.49652G	-49.54	7.23514G	-41.17	1
2412MHz	Pass	2.442G	12.84	-17.16	159.9M	-39.54	2.39986G	-26.50	2.4G	-29.98	2.49402G	-50.02	7.22671G	-41.09	2
2437MHz	Pass	2.442G	12.84	-17.16	159.9M	-38.83	2.39884G	-34.30	2.4G	-36.87	2.48382G	-39.13	24.98314G	-42.47	1
2437MHz	Pass	2.442G	12.84	-17.16	159.9M	-39.69	2.39918G	-33.27	2.4G	-36.56	2.48446G	-37.38	23.31426G	-42.56	2
2462MHz	Pass	2.442G	12.84	-17.16	159.9M	-38.94	2.3999G	-49.59	2.4835G	-44.45	2.4836G	-37.84	24.94943G	-41.98	1
2462MHz	Pass	2.442G	12.84	-17.16	159.9M	-39.66	2.39186G	-49.52	2.4835G	-42.60	2.48386G	-39.29	24.87919G	-41.62	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

CSEndB

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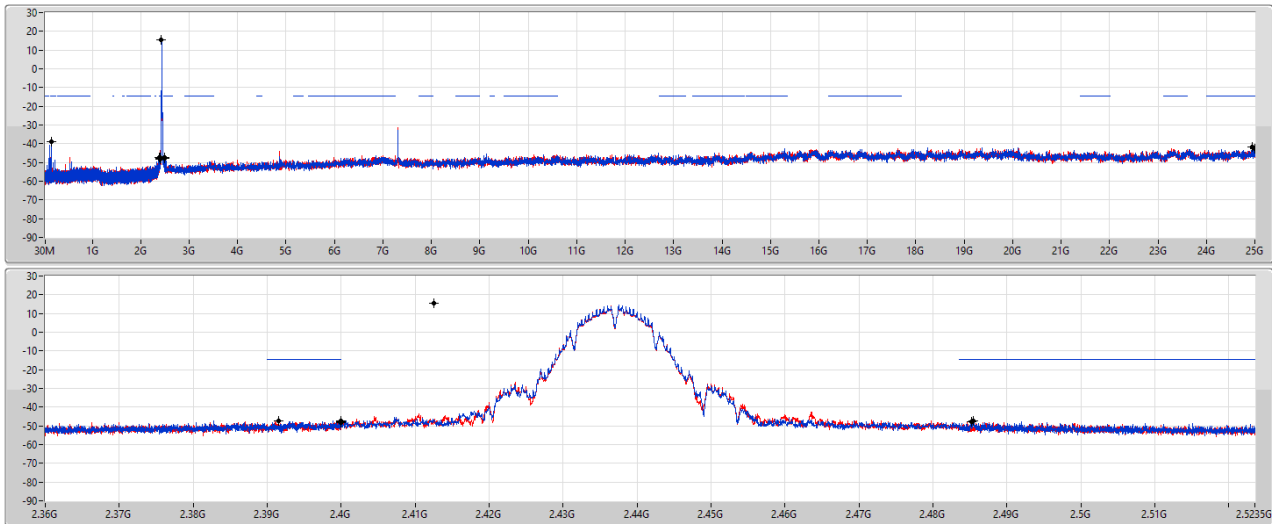
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41248G	15.29	-14.71	159.9M	-39.45	2.39852G	-27.21	2.4G	-27.51	2.49266G	-48.99	7.23795G	-32.59	1
2.41248G	15.29	-14.71	159.9M	-38.99	2.39852G	-25.88	2.4G	-26.79	2.51338G	-49.14	7.23514G	-32.31	2

802.11b_Nss1,(1Mbps)_2TX

2437MHz

CSEndB

08/02/2022



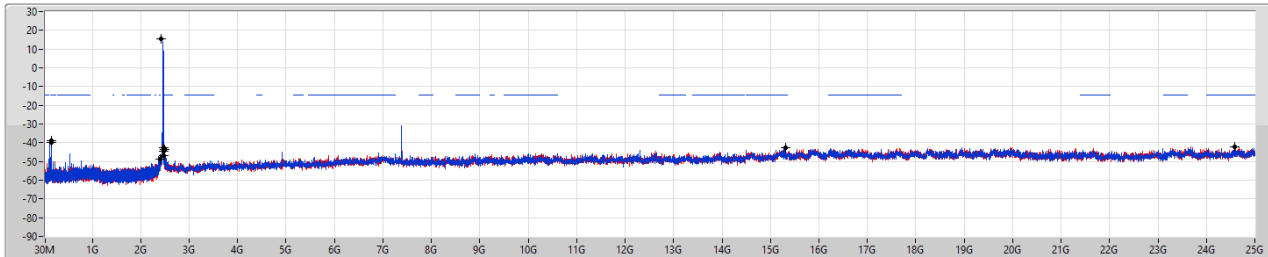
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41248G	15.29	-14.71	159.9M	-39.13	2.4G	-47.33	2.4G	-48.03	2.4855G	-47.48	24.95224G	-41.94	1
2.41248G	15.29	-14.71	159.9M	-38.97	2.3915G	-47.35	2.4G	-48.50	2.48522G	-47.80	24.99438G	-42.61	2

802.11b_Nss1,(1Mbps)_2TX

2462MHz

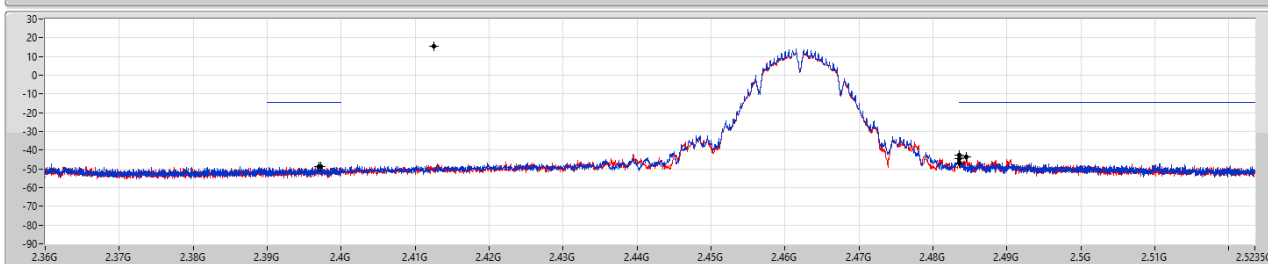
CSEndB

08/02/2022



Port 1
Port 2

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



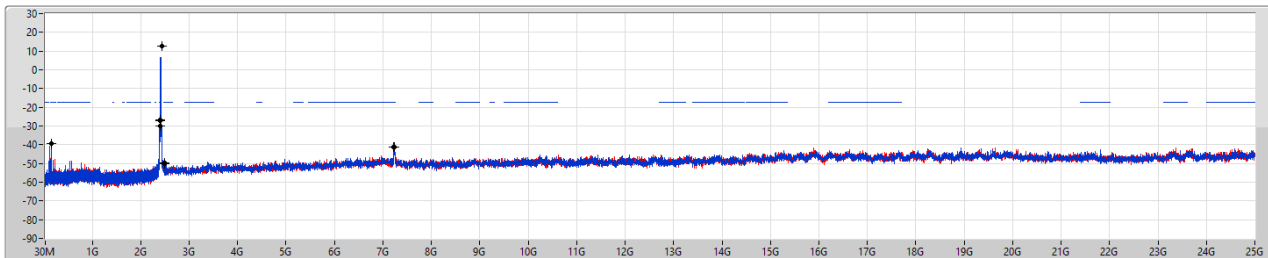
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41248G	15.29	-14.71	159.9M	-38.83	2.39704G	-48.85	2.4835G	-44.68	2.4835G	-42.72	15.31544G	-42.72	1
2.41248G	15.29	-14.71	159.9M	-39.87	2.39724G	-48.67	2.4835G	-47.00	2.4845G	-43.46	24.58418G	-42.32	2

802.11g_Nss1,(6Mbps)_2TX

2412MHz

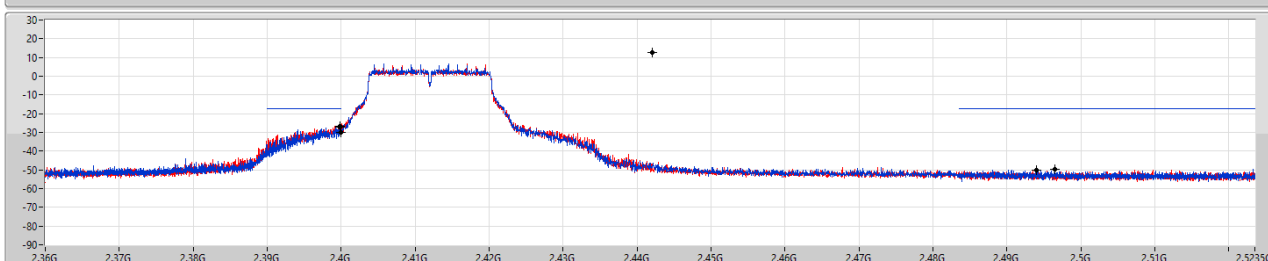
CSEndB

08/02/2022



Port 1
Port 2

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



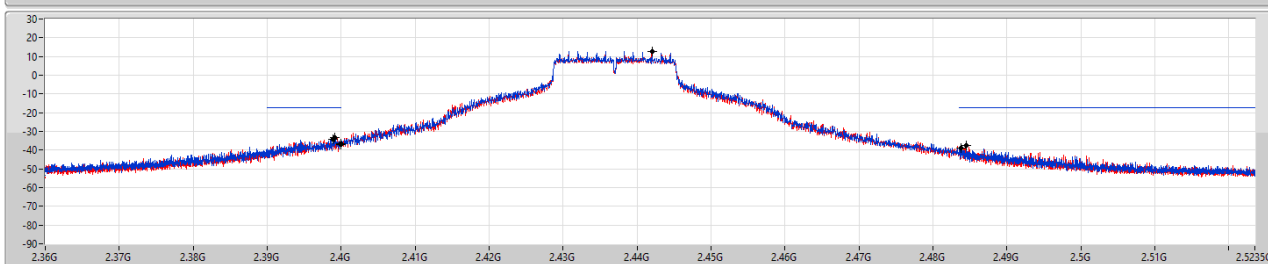
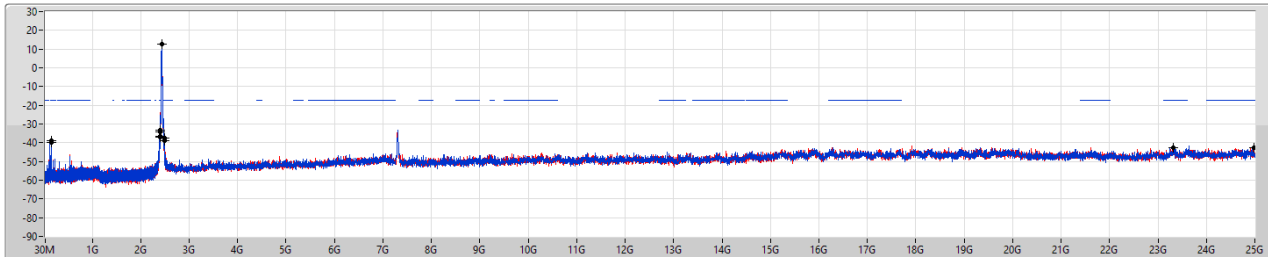
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.84	-17.16	159.9M	-39.54	2.39988G	-27.31	2.4G	-29.89	2.49632G	-49.54	7.23514G	-41.17	1
2.442G	12.84	-17.16	159.9M	-39.54	2.39986G	-26.50	2.4G	-29.98	2.49402G	-50.02	7.22671G	-41.09	2

802.11g_Nss1,(6Mbps)_2TX

2437MHz

CSEndB

08/02/2022



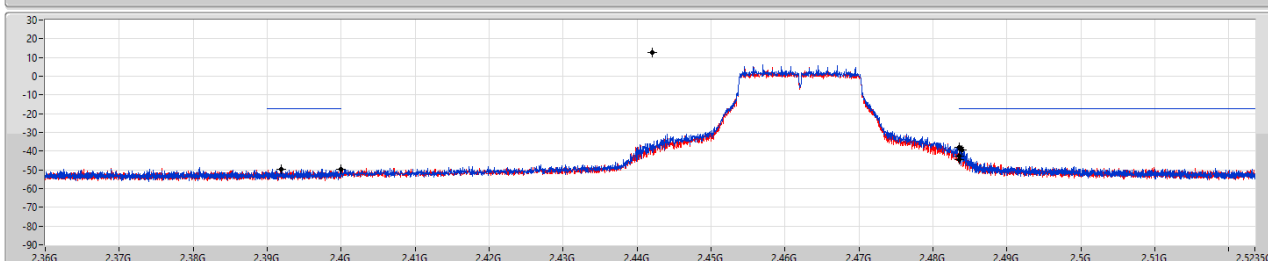
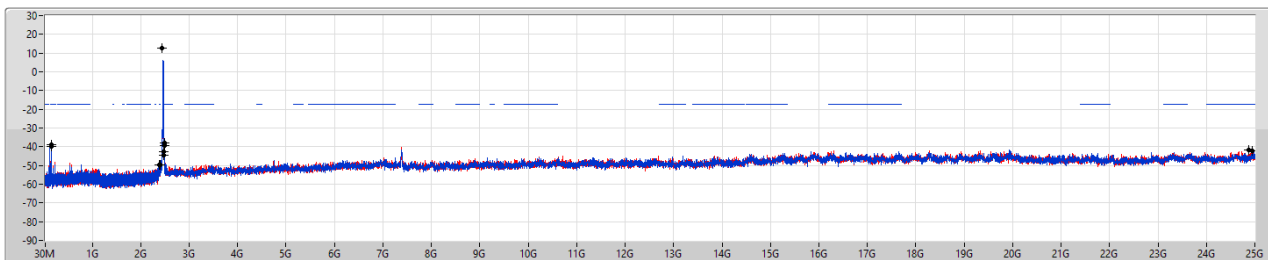
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.84	-17.16	159.9M	-38.83	2.39884G	-34.30	2.4G	-36.87	2.48382G	-39.13	24.96314G	-42.47	1
2.442G	12.84	-17.16	159.9M	-39.69	2.39918G	-33.27	2.4G	-36.56	2.48446G	-37.38	23.31426G	-42.56	2

802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSEndB

08/02/2022



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
2.442G	12.84	-17.16	159.9M	-38.94	2.3999G	-49.59	2.4835G	-44.45	2.4836G	-37.84	24.94943G	-41.98	1
2.442G	12.84	-17.16	159.9M	-39.66	2.39186G	-49.52	2.4835G	-42.60	2.4838G	-39.29	24.87919G	-41.62	2



For beamforming mode

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.442G	10.50	-19.50	159.9M	-40.10	2.3997G	-25.07	2.4G	-29.28	2.50806G	-50.13	23.24964G	-41.44	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.44701G	2.06	-27.94	159.96M	-39.46	2.39952G	-33.94	2.4G	-38.97	2.48562G	-43.32	23.26958G	-42.42	1

Result

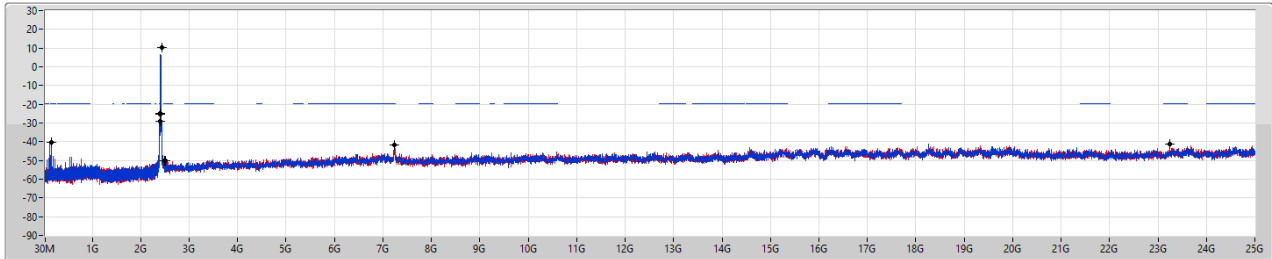
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	10.50	-19.50	159.9M	-40.47	2.39944G	-25.33	2.4G	-29.24	2.49536G	-49.96	7.23514G	-41.69	1
2412MHz	Pass	2.442G	10.50	-19.50	159.9M	-40.10	2.3997G	-25.07	2.4G	-29.28	2.50806G	-50.13	23.24964G	-41.44	2
2437MHz	Pass	2.442G	10.50	-19.50	159.9M	-38.29	2.39906G	-39.76	2.4G	-40.61	2.48412G	-43.82	16.64155G	-41.88	1
2437MHz	Pass	2.442G	10.50	-19.50	159.9M	-39.92	2.39938G	-38.68	2.4G	-41.12	2.4846G	-43.86	24.72185G	-41.47	2
2462MHz	Pass	2.442G	10.50	-19.50	159.9M	-39.11	2.39214G	-49.46	2.4835G	-38.88	2.48406G	-32.87	16.24821G	-40.70	1
2462MHz	Pass	2.442G	10.50	-19.50	159.9M	-40.04	2.3979G	-48.50	2.4835G	-37.43	2.48358G	-34.12	16.22293G	-42.43	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44701G	2.06	-27.94	159.96M	-39.01	2.39704G	-38.35	2.4G	-40.65	2.49326G	-50.21	24.53444G	-42.35	1
2422MHz	Pass	2.44701G	2.06	-27.94	159.96M	-40.44	2.39704G	-39.94	2.4G	-41.79	2.51742G	-48.92	21.63453G	-42.16	2
2437MHz	Pass	2.44701G	2.06	-27.94	159.96M	-39.46	2.39952G	-33.94	2.4G	-38.97	2.48562G	-43.32	23.26958G	-42.42	1
2437MHz	Pass	2.44701G	2.06	-27.94	159.96M	-39.60	2.39832G	-37.81	2.4G	-38.24	2.4835G	-45.01	24.98317G	-41.51	2
2452MHz	Pass	2.44701G	2.06	-27.94	159.96M	-38.58	2.4G	-46.76	2.4835G	-36.65	2.48446G	-35.39	24.65504G	-42.40	1
2452MHz	Pass	2.44701G	2.06	-27.94	159.96M	-40.06	2.39792G	-47.20	2.4835G	-38.67	2.4845G	-34.70	23.59491G	-41.89	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

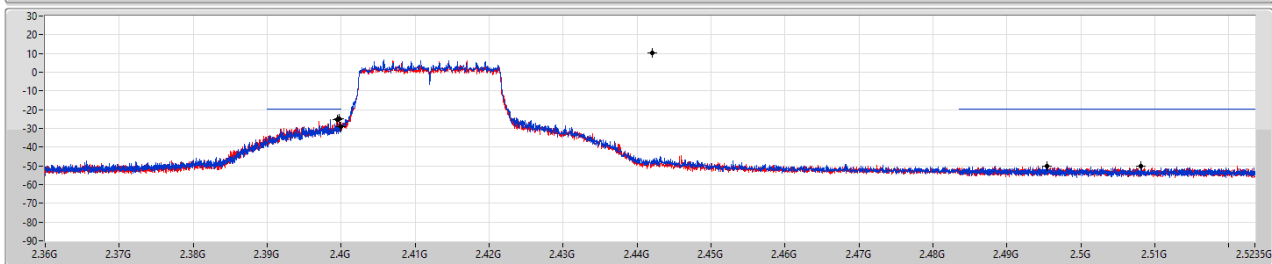
2412MHz

CSENdB

08/02/2022



Port 1
Port 2



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

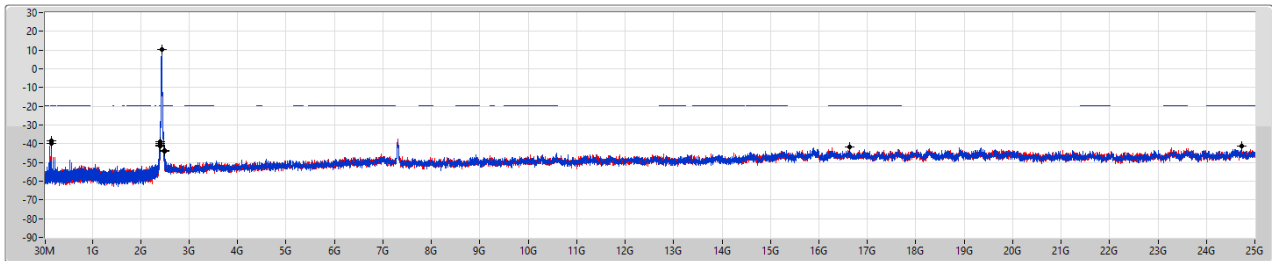
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	10.50	-19.50	159.9M	-40.47	2.39944G	-25.33	2.4G	-29.24	2.49536G	-49.96	7.23514G	-41.69	1
2.442G	10.50	-19.50	159.9M	-40.10	2.3997G	-25.07	2.4G	-29.28	2.50806G	-50.13	23.24964G	-41.44	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

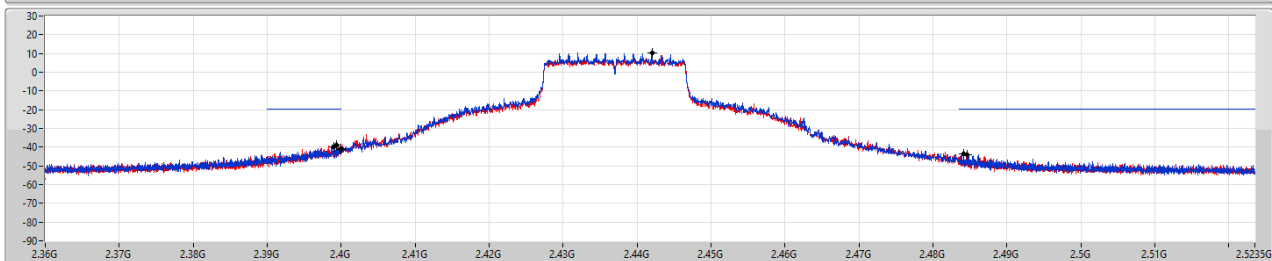
2437MHz

CSENdB

08/02/2022



Port 1
Port 2



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

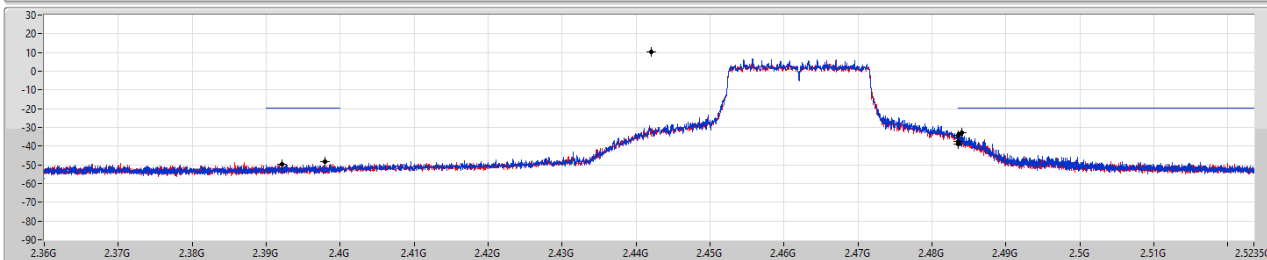
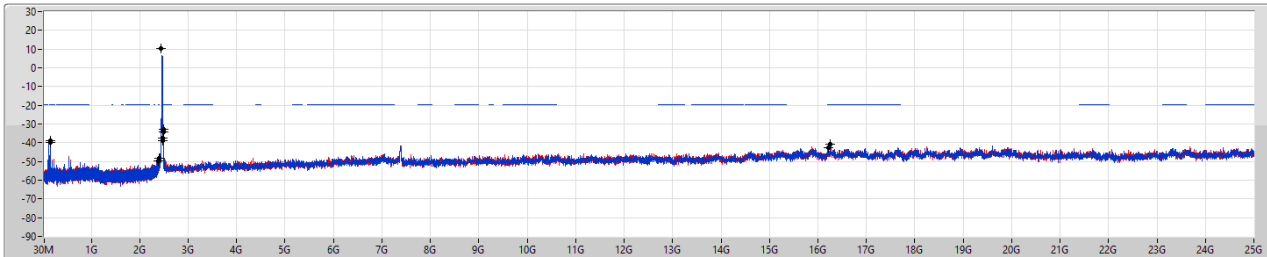
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	10.50	-19.50	159.9M	-38.29	2.39906G	-39.76	2.4G	-40.61	2.48412G	-43.82	16.64155G	-41.88	1
2.442G	10.50	-19.50	159.9M	-39.92	2.39938G	-38.68	2.4G	-41.12	2.4846G	-43.86	24.72185G	-41.47	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz

CSEndB

08/02/2022



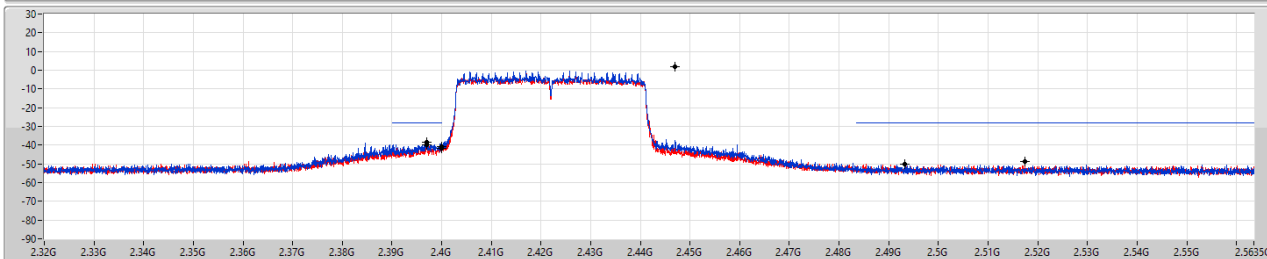
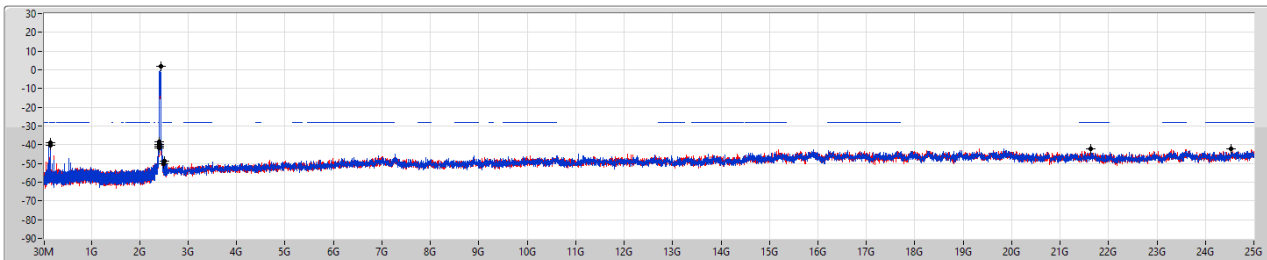
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	10.50	-19.50	159.9M	-39.11	2.39214G	-49.46	2.4835G	-38.88	2.48406G	-32.87	16.24821G	-40.70	1
2.442G	10.50	-19.50	159.9M	-40.04	2.3979G	-48.50	2.4835G	-37.43	2.48358G	-34.12	16.22293G	-42.43	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz

CSEndB

08/02/2022



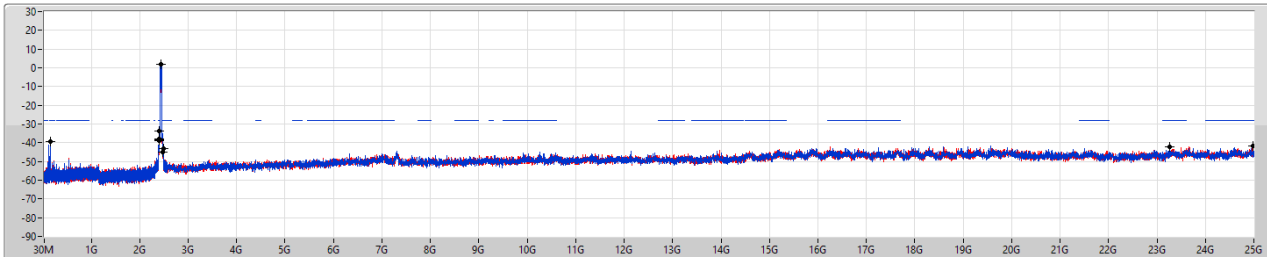
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2.44701G	2.06	-27.94	159.96M	-39.01	2.39704G	-38.35	2.4G	-40.65	2.49326G	-50.21	24.53444G	-42.35	1
2.44701G	2.06	-27.94	159.96M	-40.44	2.39704G	-39.94	2.4G	-41.79	2.51742G	-48.92	21.63453G	-42.16	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

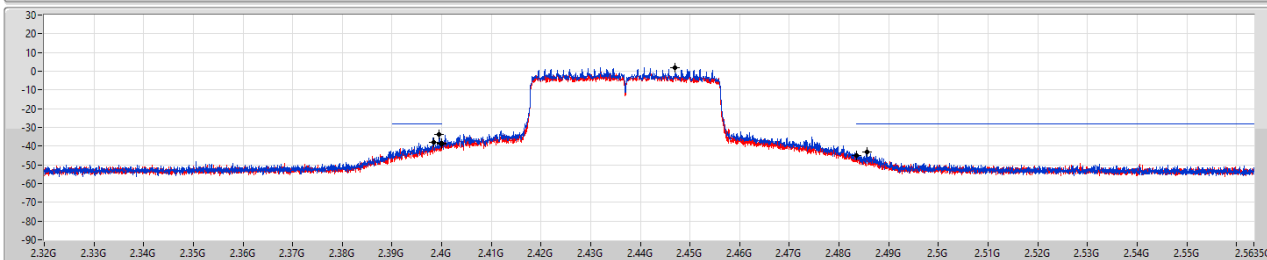
2437MHz

CSENdB

08/02/2022



Port 1
Port 2



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

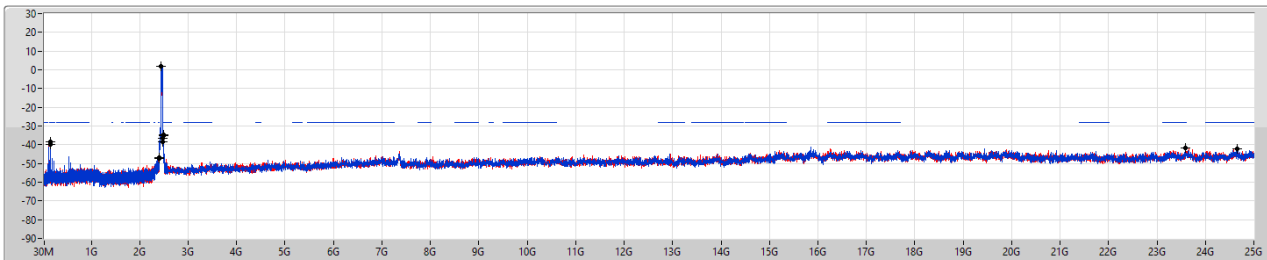
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44701G	2.06	-27.94	159.96M	-39.46	2.39952G	-33.94	2.4G	-38.97	2.48562G	-43.32	23.26958G	-42.42	1
2.44701G	2.06	-27.94	159.96M	-39.60	2.39832G	-37.81	2.4G	-38.24	2.4835G	-45.01	24.98317G	-41.51	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

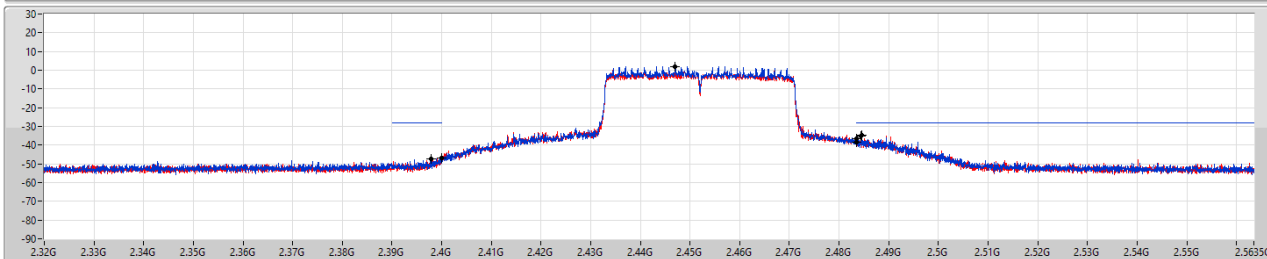
2452MHz

CSENdB

08/02/2022



Port 1
Port 2



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

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
2.44701G	2.06	-27.94	159.96M	-38.58	2.4G	-46.76	2.4835G	-36.65	2.48446G	-35.39	24.65504G	-42.40	1
2.44701G	2.06	-27.94	159.96M	-40.06	2.39792G	-47.20	2.4835G	-38.67	2.4845G	-34.70	23.39491G	-41.89	2



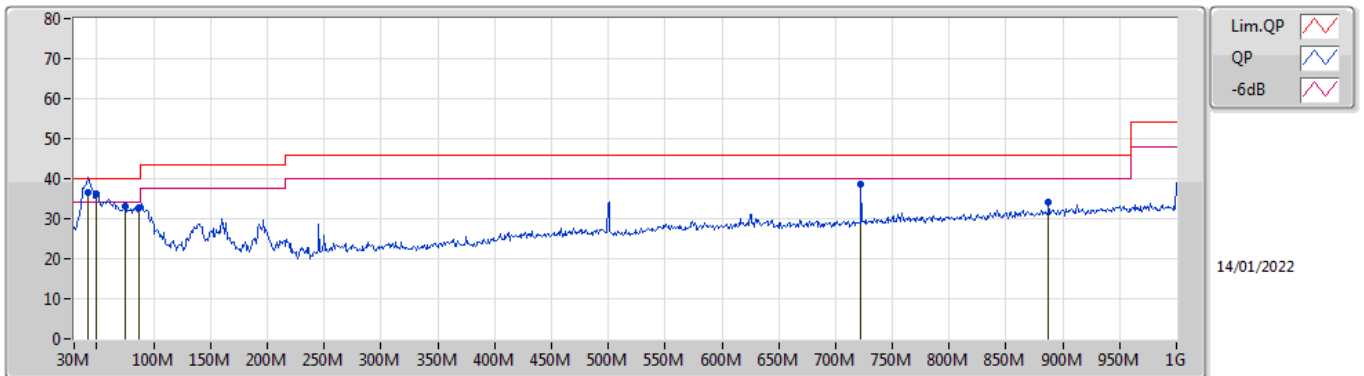
Radiated Emissions below 1GHz

Appendix F.1

Summary

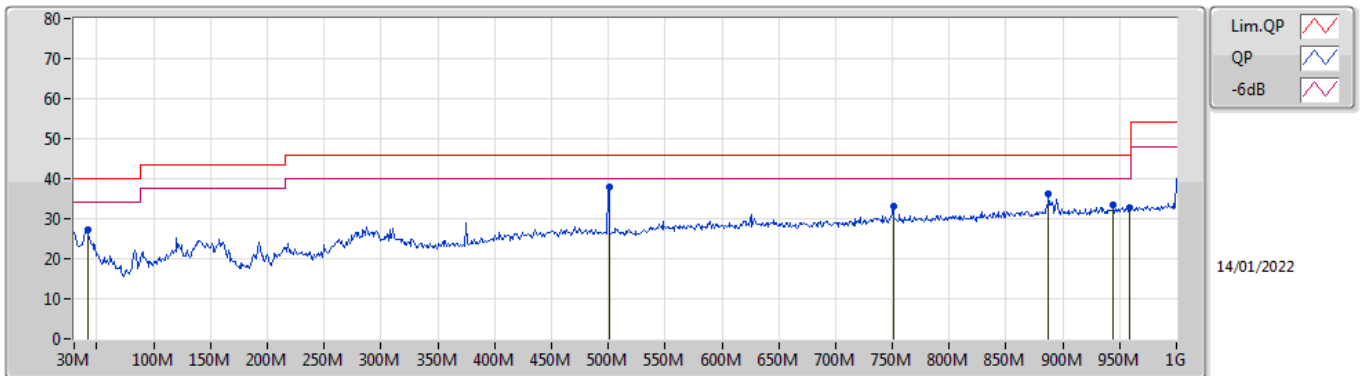
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	41.64M	36.57	40.00	-3.43	Vertical

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)
QP	41.64M	36.57	40.00	-3.43	-12.93	3	Vertical	105	1.00	"Worst"	49.50	17.82	0.93	31.68
PK	49.4M	36.14	40.00	-3.86	-16.53	3	Vertical	53	1.00	-	52.67	14.14	1.09	31.76
PK	74.62M	32.96	40.00	-7.04	-18.38	3	Vertical	195	2.00	-	51.34	12.22	1.30	31.90
PK	87.23M	32.92	40.00	-7.08	-16.42	3	Vertical	73	1.50	-	49.34	14.05	1.44	31.91
PK	722.58M	38.78	46.00	-7.22	-3.33	3	Vertical	221	1.50	-	42.11	24.76	4.59	32.68
PK	887.48M	34.28	46.00	-11.72	-1.21	3	Vertical	295	1.50	-	35.49	26.19	5.25	32.65

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	41.64M	27.40	40.00	-12.60	-12.93	3	Horizontal	119	2.00	-	40.33	17.82	0.93	31.68
PK	500.45M	38.06	46.00	-7.94	-5.55	3	Horizontal	159	1.00	"Worst"	43.61	23.18	3.60	32.33
PK	750.71M	33.09	46.00	-12.91	-2.82	3	Horizontal	149	1.25	-	35.91	25.19	4.70	32.71
PK	887.48M	36.15	46.00	-9.85	-1.21	3	Horizontal	1	1.25	-	37.36	26.19	5.25	32.65
PK	944.71M	33.43	46.00	-12.57	-0.63	3	Horizontal	12	1.00	-	34.06	26.38	5.57	32.58
PK	958.29M	32.89	46.00	-13.11	-0.40	3	Horizontal	247	1.00	-	33.29	26.57	5.60	32.57



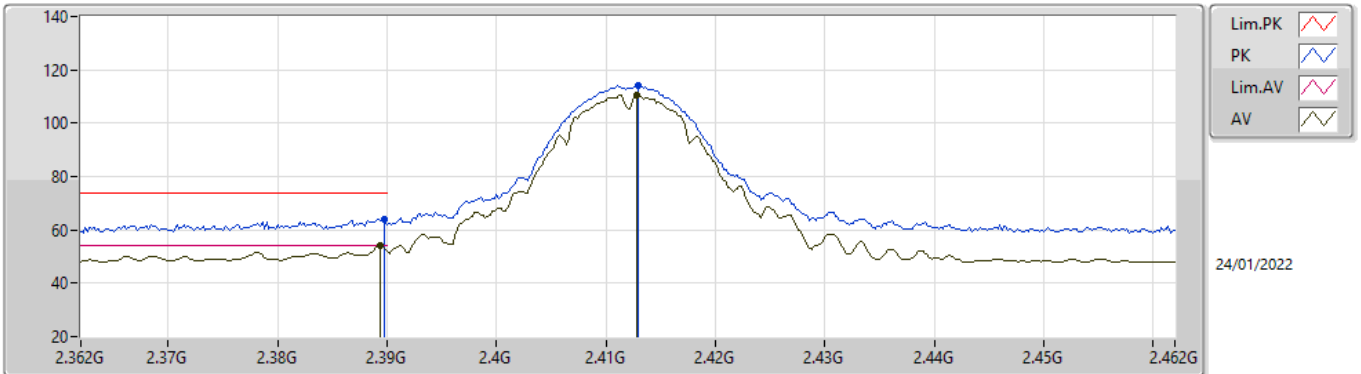
For non beamforming mode

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4835G	53.97	54.00	-0.03	3	Horizontal	42	1.87	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

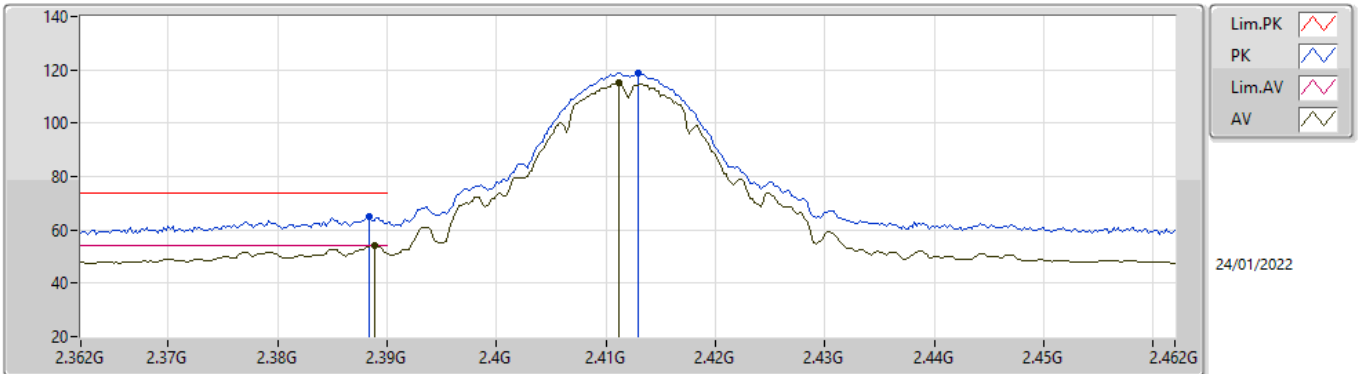


EUT X_2TX
Setting 90
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.91	74.00	-10.09	32.74	3	Vertical	275	1.48	-	28.38	2.79	-
AV	2.3894G	53.97	54.00	-0.03	22.80	3	Vertical	275	1.48	-	28.38	2.79	-
PK	2.413G	114.28	Inf	-Inf	83.07	3	Vertical	275	1.48	-	28.40	2.81	-
AV	2.4128G	110.39	Inf	-Inf	79.18	3	Vertical	275	1.48	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

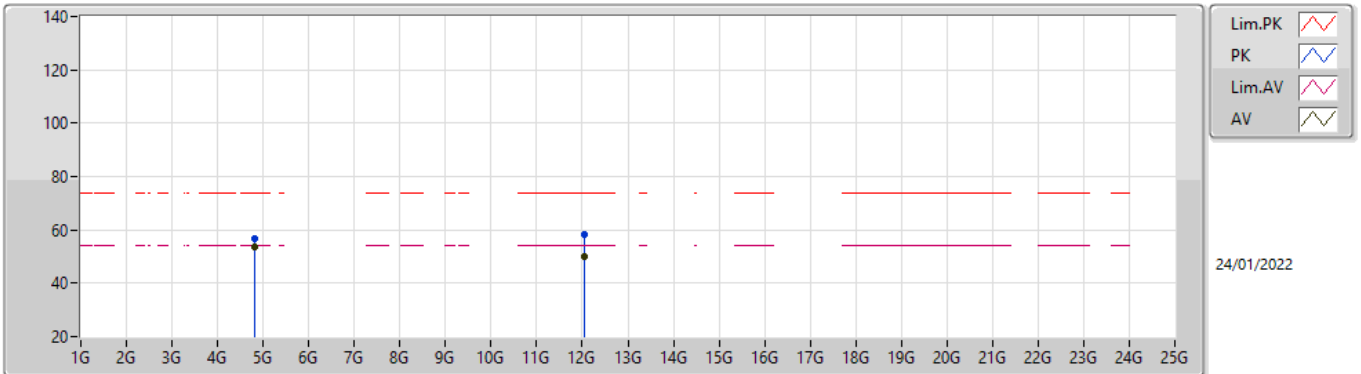


EUT X_2TX
Setting 90
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3884G	64.95	74.00	-9.05	33.78	3	Horizontal	41	2.39	-	28.38	2.79	-	
AV	2.3888G	53.98	54.00	-0.02	22.81	3	Horizontal	41	2.39	-	28.38	2.79	-	
PK	2.413G	118.80	Inf	-Inf	87.59	3	Horizontal	41	2.39	-	28.40	2.81	-	
AV	2.4112G	114.93	Inf	-Inf	83.72	3	Horizontal	41	2.39	-	28.40	2.81	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

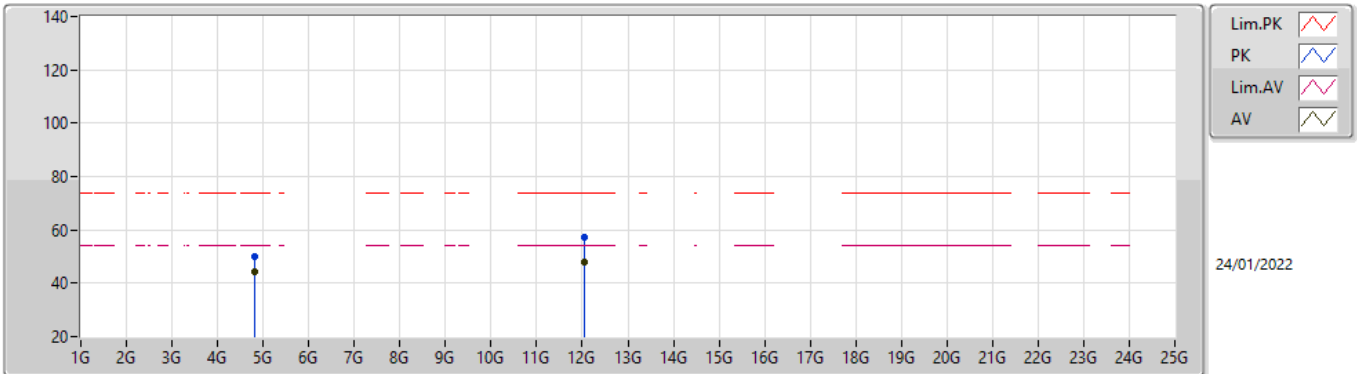


EUT X_2TX
Setting 90
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82398G	56.67	74.00	-17.33	50.99	3	Vertical	281	1.71	-	32.80	5.10	32.22
AV	4.824G	53.76	54.00	-0.24	48.08	3	Vertical	281	1.71	-	32.80	5.10	32.22
PK	12.05846G	58.52	74.00	-15.48	44.67	3	Vertical	250	1.67	-	39.08	8.13	33.36
AV	12.06072G	49.98	54.00	-4.02	36.13	3	Vertical	250	1.67	-	39.08	8.13	33.36

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

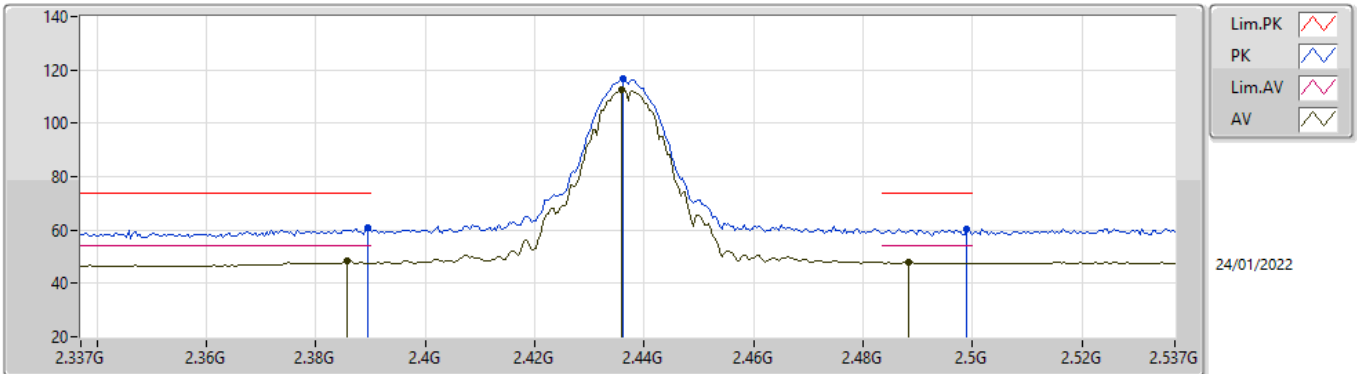


EUT X_2TX
Setting 90
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82418G	49.83	74.00	-24.17	44.15	3	Horizontal	327	1.96	-	32.80	5.10	32.22
AV	4.824G	44.55	54.00	-9.45	38.87	3	Horizontal	327	1.96	-	32.80	5.10	32.22
PK	12.06104G	57.08	74.00	-16.92	43.23	3	Horizontal	64	1.27	-	39.08	8.13	33.36
AV	12.0592G	48.02	54.00	-5.98	34.17	3	Horizontal	64	1.27	-	39.08	8.13	33.36

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

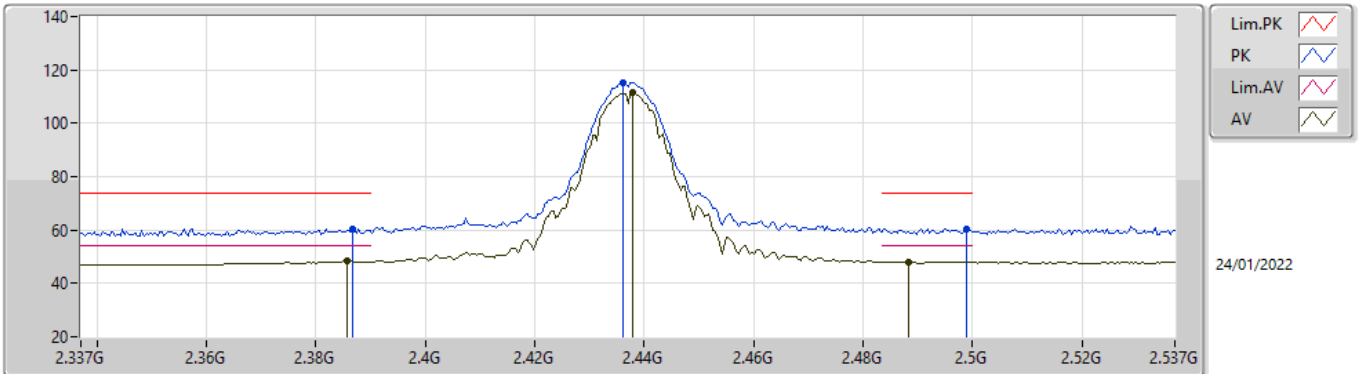


EUT_X_2TX
Setting 89
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	60.80	74.00	-13.20	29.63	3	Vertical	170	1.76	-	28.38	2.79	-
AV	2.3858G	48.67	54.00	-5.33	17.51	3	Vertical	170	1.76	-	28.37	2.79	-
PK	2.4362G	116.65	Inf	-Inf	85.41	3	Vertical	170	1.76	-	28.40	2.84	-
AV	2.4358G	112.50	Inf	-Inf	81.26	3	Vertical	170	1.76	-	28.40	2.84	-
PK	2.499G	60.22	74.00	-13.78	28.72	3	Vertical	170	1.76	-	28.60	2.90	-
AV	2.4882G	48.12	54.00	-5.88	16.68	3	Vertical	170	1.76	-	28.55	2.89	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

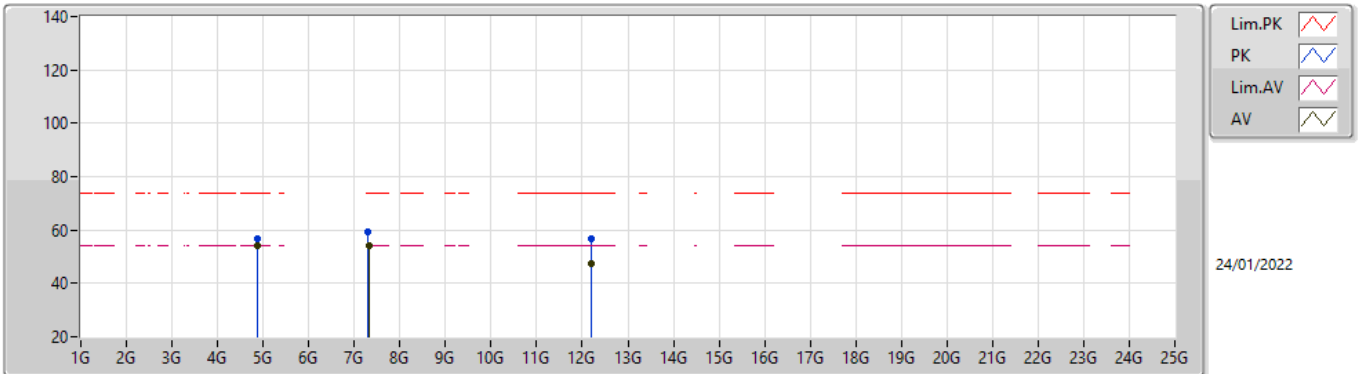


EUT_X_2TX
Setting 89
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	60.36	74.00	-13.64	29.20	3	Horizontal	127	1.00	-	28.37	2.79	-
AV	2.3858G	48.59	54.00	-5.41	17.43	3	Horizontal	127	1.00	-	28.37	2.79	-
PK	2.4362G	115.39	Inf	-Inf	84.15	3	Horizontal	127	1.00	-	28.40	2.84	-
AV	2.4378G	111.50	Inf	-Inf	80.26	3	Horizontal	127	1.00	-	28.40	2.84	-
PK	2.499G	60.53	74.00	-13.47	29.03	3	Horizontal	127	1.00	-	28.60	2.90	-
AV	2.4882G	48.08	54.00	-5.92	16.64	3	Horizontal	127	1.00	-	28.55	2.89	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

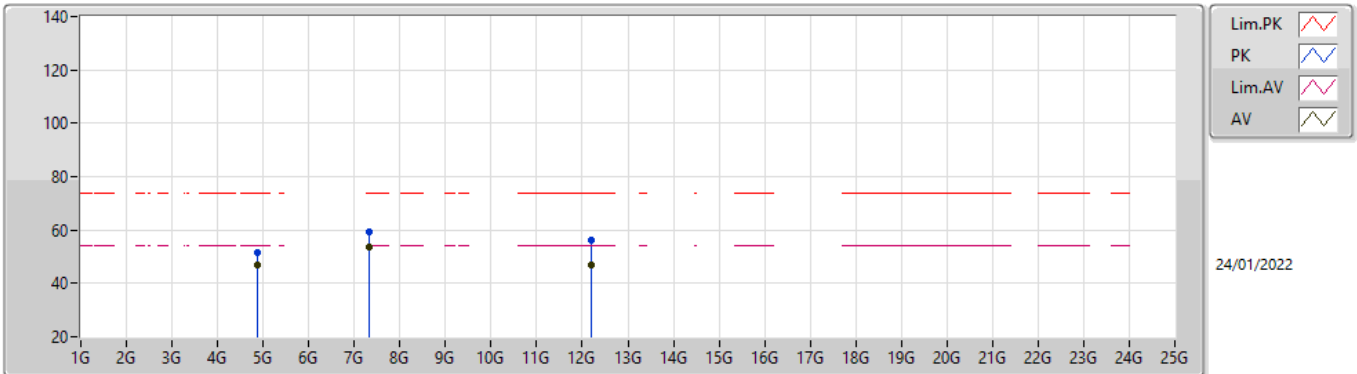


EUT_X_2TX
Setting 89
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87404G	56.61	74.00	-17.39	50.77	3	Vertical	294	1.38	-	32.95	5.10	32.21
AV	4.874G	53.91	54.00	-0.09	48.07	3	Vertical	294	1.38	-	32.95	5.10	32.21
PK	7.30994G	59.46	74.00	-14.54	49.71	3	Vertical	350	2.04	-	36.42	6.15	32.82
AV	7.31026G	53.94	54.00	-0.06	44.18	3	Vertical	350	2.04	-	36.42	6.16	32.82
PK	12.18422G	56.61	74.00	-17.39	42.89	3	Vertical	86	1.50	-	38.92	8.19	33.39
AV	12.18576G	47.60	54.00	-6.40	33.89	3	Vertical	86	1.50	-	38.91	8.19	33.39

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

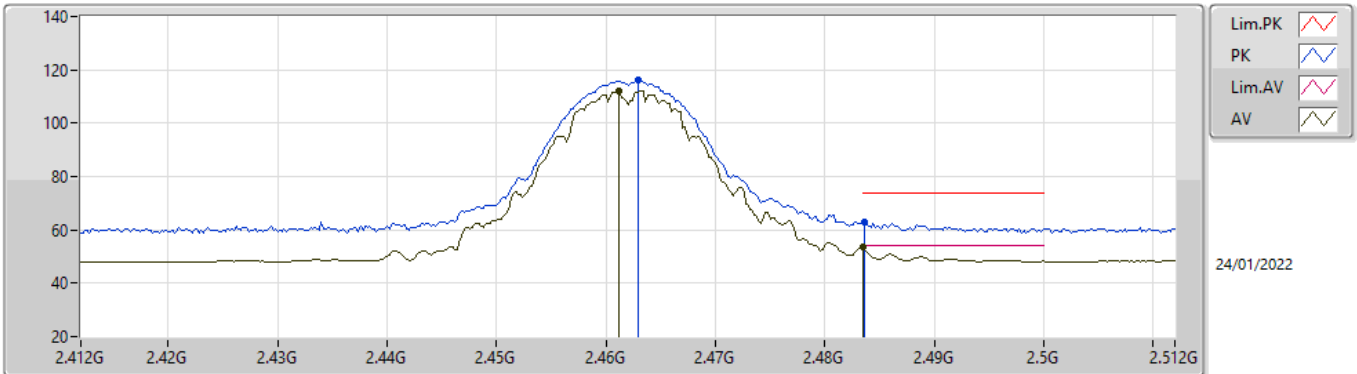


EUT_X_2TX
Setting 89
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87392G	51.57	74.00	-22.43	45.73	3	Horizontal	207	1.80	-	32.95	5.10	32.21
AV	4.874G	46.98	54.00	-7.02	41.14	3	Horizontal	207	1.80	-	32.95	5.10	32.21
PK	7.31194G	59.26	74.00	-14.74	49.50	3	Horizontal	317	1.48	-	36.42	6.16	32.82
AV	7.31172G	53.40	54.00	-0.60	43.64	3	Horizontal	317	1.48	-	36.42	6.16	32.82
PK	12.18342G	56.27	74.00	-17.73	42.55	3	Horizontal	175	1.72	-	38.92	8.19	33.39
AV	12.18422G	47.00	54.00	-7.00	33.28	3	Horizontal	175	1.72	-	38.92	8.19	33.39

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

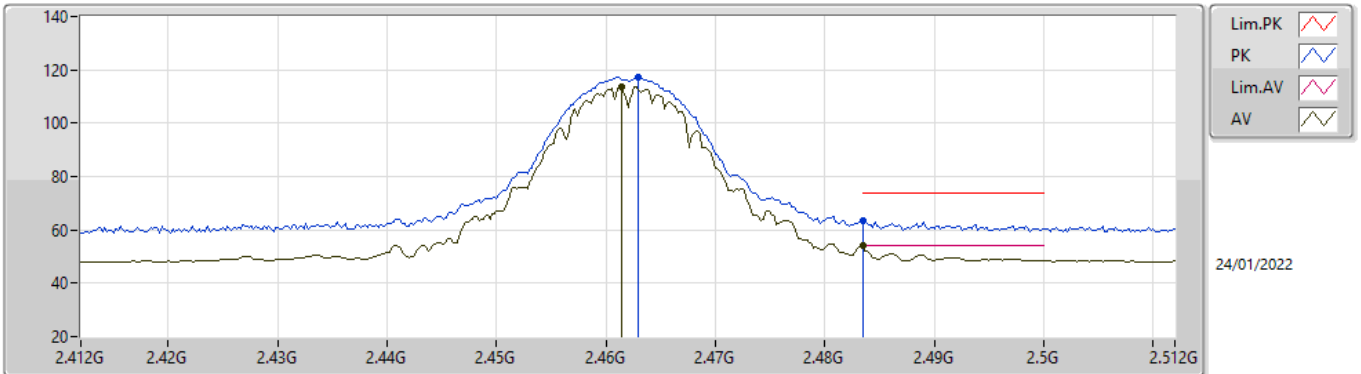


EUT X_2TX
Setting 86
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	116.11	Inf	-Inf	84.80	3	Vertical	94	2.95	-	28.45	2.86	-	
AV	2.4612G	112.21	Inf	-Inf	80.91	3	Vertical	94	2.95	-	28.44	2.86	-	
PK	2.4836G	62.77	74.00	-11.23	31.36	3	Vertical	94	2.95	-	28.53	2.88	-	
AV	2.4835G	53.59	54.00	-0.41	22.18	3	Vertical	94	2.95	-	28.53	2.88	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

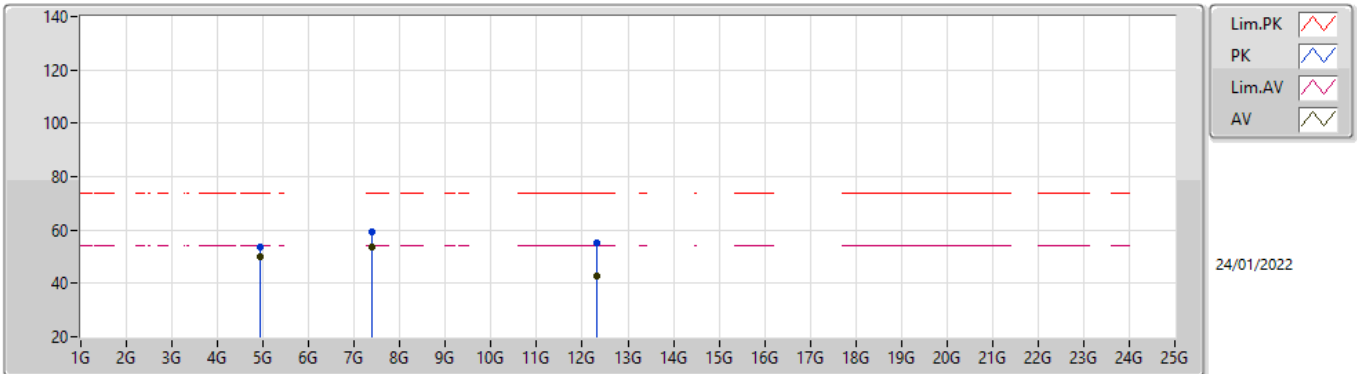


EUT X_2TX
Setting 86
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	117.37	Inf	-Inf	86.06	3	Horizontal	42	1.88	-	28.45	2.86	-	
AV	2.4614G	113.51	Inf	-Inf	82.20	3	Horizontal	42	1.88	-	28.45	2.86	-	
PK	2.4835G	63.66	74.00	-10.34	32.25	3	Horizontal	42	1.88	-	28.53	2.88	-	
AV	2.4835G	53.88	54.00	-0.12	22.47	3	Horizontal	42	1.88	-	28.53	2.88	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

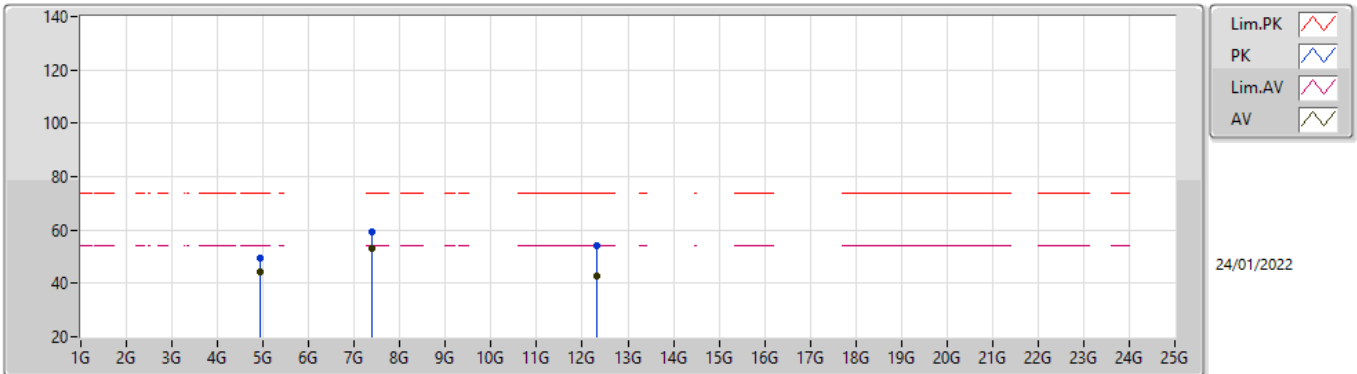


EUT_X_2TX
Setting 86
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92402G	53.49	74.00	-20.51	47.44	3	Vertical	313	1.22	-	33.14	5.10	32.19
AV	4.92398G	49.96	54.00	-4.04	43.91	3	Vertical	313	1.22	-	33.14	5.10	32.19
PK	7.387G	59.56	74.00	-14.44	49.75	3	Vertical	12	2.89	-	36.57	6.19	32.95
AV	7.38676G	53.79	54.00	-0.21	43.98	3	Vertical	12	2.89	-	36.57	6.19	32.95
PK	12.30904G	55.01	74.00	-18.99	41.48	3	Vertical	262	1.86	-	38.70	8.25	33.42
AV	12.30874G	42.72	54.00	-11.28	29.19	3	Vertical	262	1.86	-	38.70	8.25	33.42

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

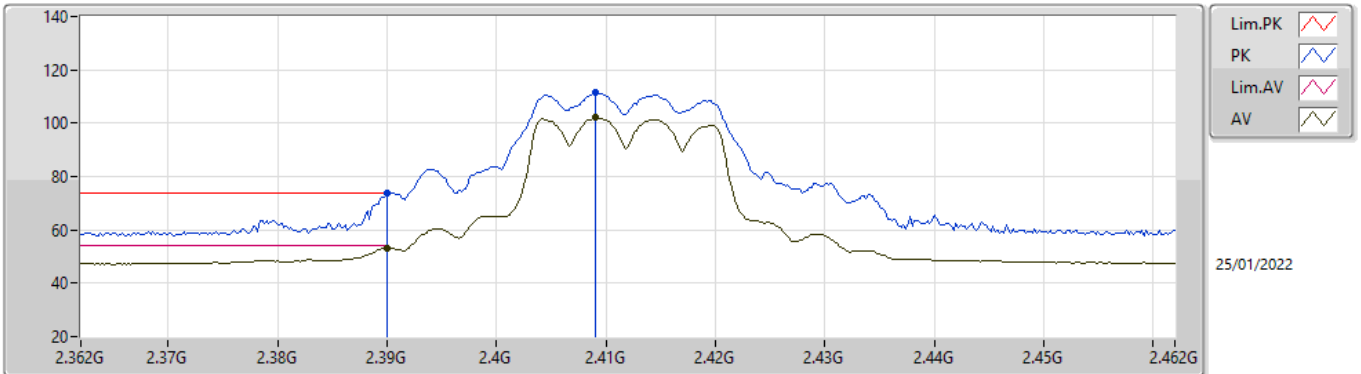


EUT_X_2TX
Setting 86
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92406G	49.57	74.00	-24.43	43.52	3	Horizontal	189	2.18	-	33.14	5.10	32.19
AV	4.924G	44.46	54.00	-9.54	38.41	3	Horizontal	189	2.18	-	33.14	5.10	32.19
PK	7.38696G	59.18	74.00	-14.82	49.37	3	Horizontal	320	2.10	-	36.57	6.19	32.95
AV	7.38528G	53.03	54.00	-0.97	43.22	3	Horizontal	320	2.10	-	36.57	6.19	32.95
PK	12.31134G	53.93	74.00	-20.07	40.39	3	Horizontal	247	2.00	-	38.70	8.26	33.42
AV	12.30878G	43.01	54.00	-10.99	29.48	3	Horizontal	247	2.00	-	38.70	8.25	33.42

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

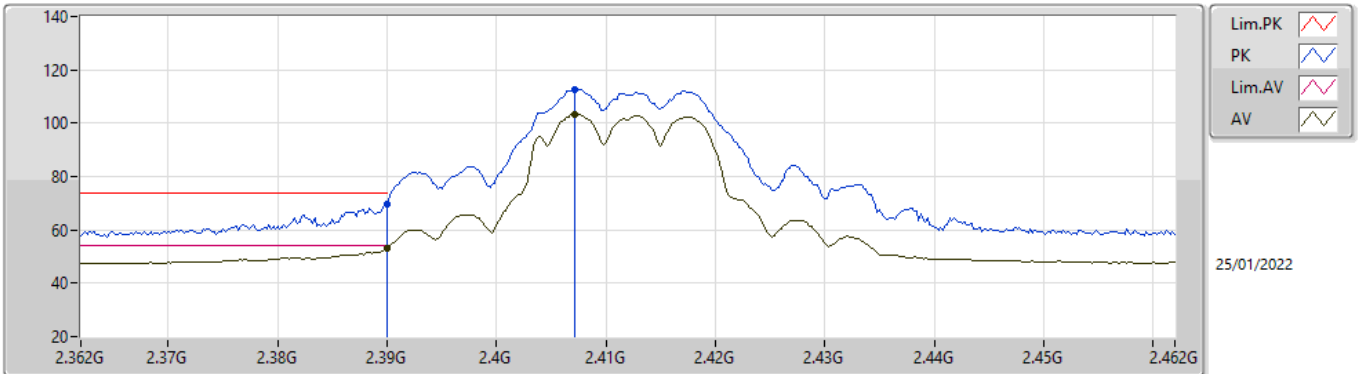


EUT X_2TX
Setting 70
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	73.86	74.00	-0.14	42.69	3	Vertical	346	1.80	-	28.38	2.79	-
AV	2.39G	53.14	54.00	-0.86	21.97	3	Vertical	346	1.80	-	28.38	2.79	-
PK	2.409G	111.40	Inf	-Inf	80.19	3	Vertical	346	1.80	-	28.40	2.81	-
AV	2.409G	102.02	Inf	-Inf	70.81	3	Vertical	346	1.80	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

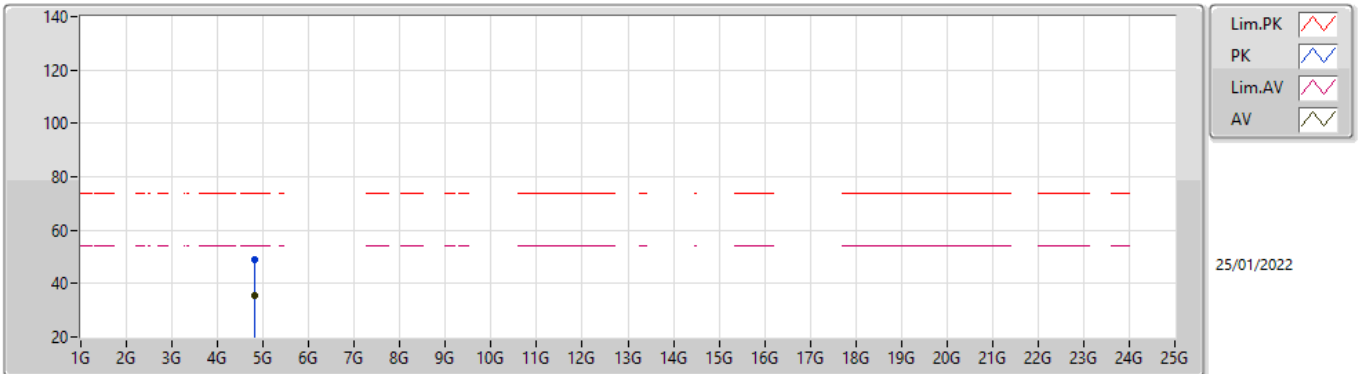


EUT X_2TX
Setting 70
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.39G	69.60	74.00	-4.40	38.43	3	Horizontal	37	2.38	-	28.38	2.79	-	
AV	2.39G	53.10	54.00	-0.90	21.93	3	Horizontal	37	2.38	-	28.38	2.79	-	
PK	2.4072G	112.61	Inf	-Inf	81.40	3	Horizontal	37	2.38	-	28.40	2.81	-	
AV	2.4072G	103.46	Inf	-Inf	72.25	3	Horizontal	37	2.38	-	28.40	2.81	-	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

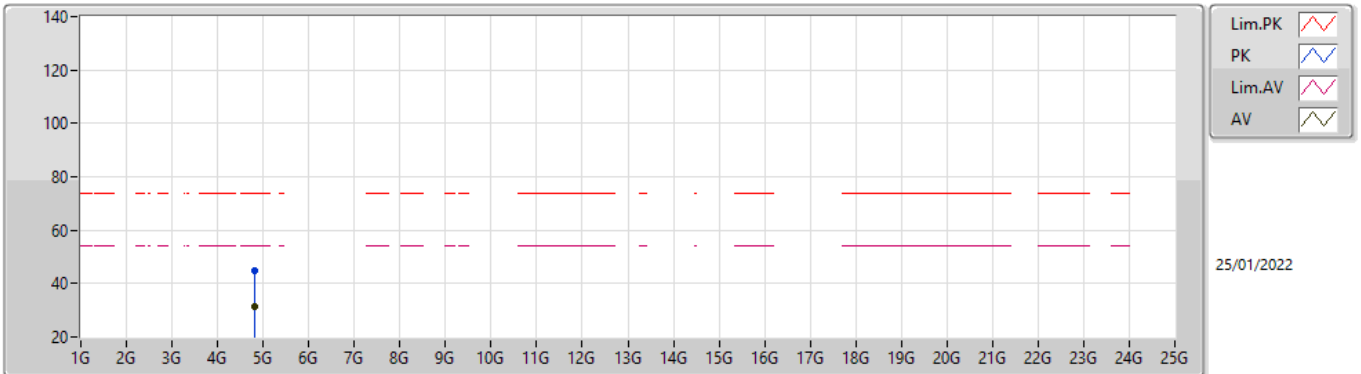


EUT X_2TX
Setting 70
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82164G	48.77	74.00	-25.23	43.10	3	Vertical	303	2.34	-	32.79	5.10	32.22
AV	4.82612G	35.74	54.00	-18.26	30.06	3	Vertical	303	2.34	-	32.80	5.10	32.22

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

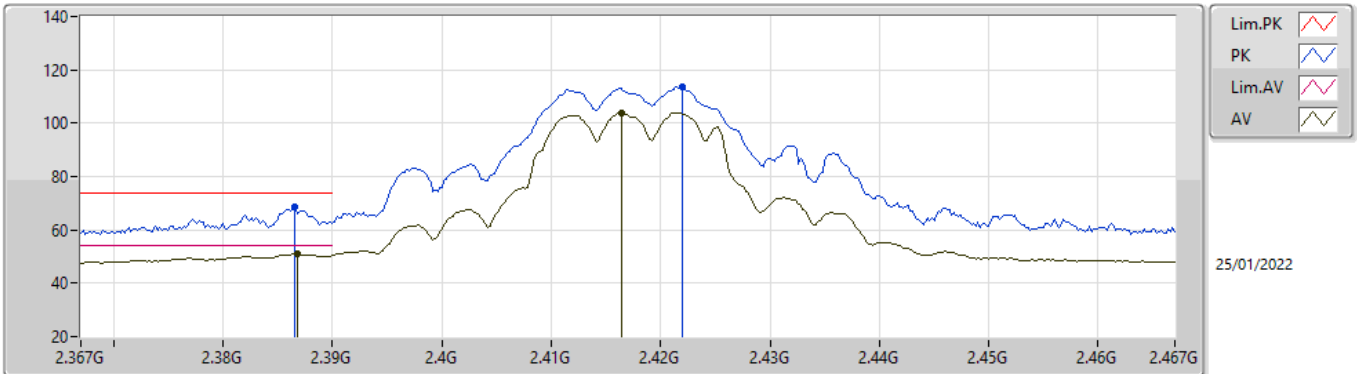


EUT X_2TX
Setting 70
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82156G	44.98	74.00	-29.02	39.31	3	Horizontal	208	1.65	-	32.79	5.10	32.22	
AV	4.8264G	31.61	54.00	-22.39	25.92	3	Horizontal	208	1.65	-	32.81	5.10	32.22	

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

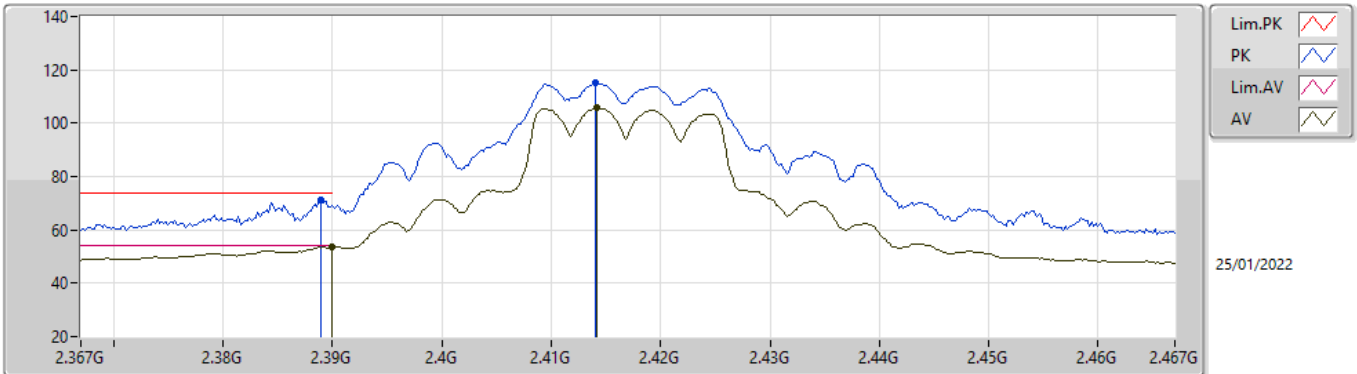


EUT X_2TX
Setting 80
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	68.84	74.00	-5.16	37.68	3	Vertical	175	1.46	-	28.37	2.79	-
AV	2.3868G	50.90	54.00	-3.10	19.74	3	Vertical	175	1.46	-	28.37	2.79	-
PK	2.422G	113.43	Inf	-Inf	82.21	3	Vertical	175	1.46	-	28.40	2.82	-
AV	2.4164G	103.95	Inf	-Inf	72.73	3	Vertical	175	1.46	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

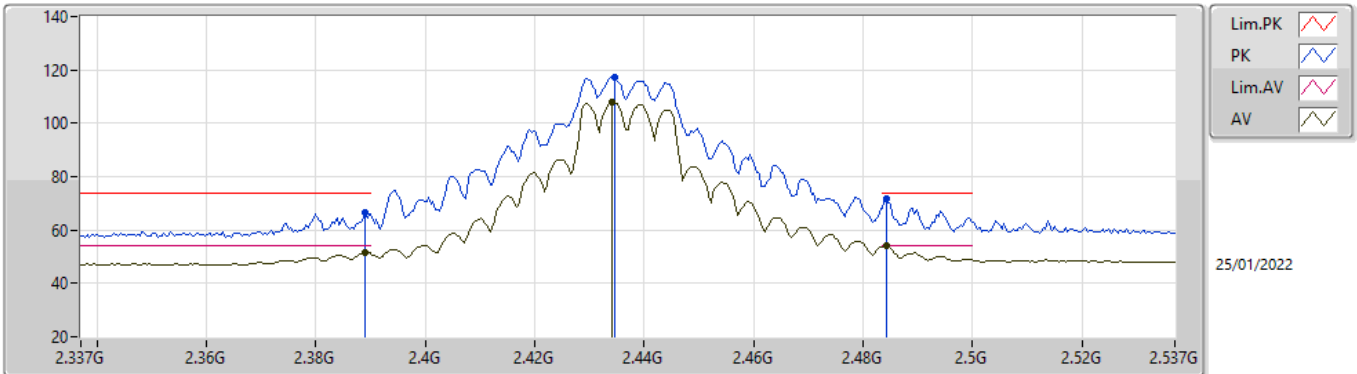


EUT X_2TX
Setting 80
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	71.12	74.00	-2.88	39.95	3	Horizontal	38	1.97	-	28.38	2.79	-
AV	2.39G	53.78	54.00	-0.22	22.61	3	Horizontal	38	1.97	-	28.38	2.79	-
PK	2.414G	115.05	Inf	-Inf	83.84	3	Horizontal	38	1.97	-	28.40	2.81	-
AV	2.4142G	105.75	Inf	-Inf	74.54	3	Horizontal	38	1.97	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

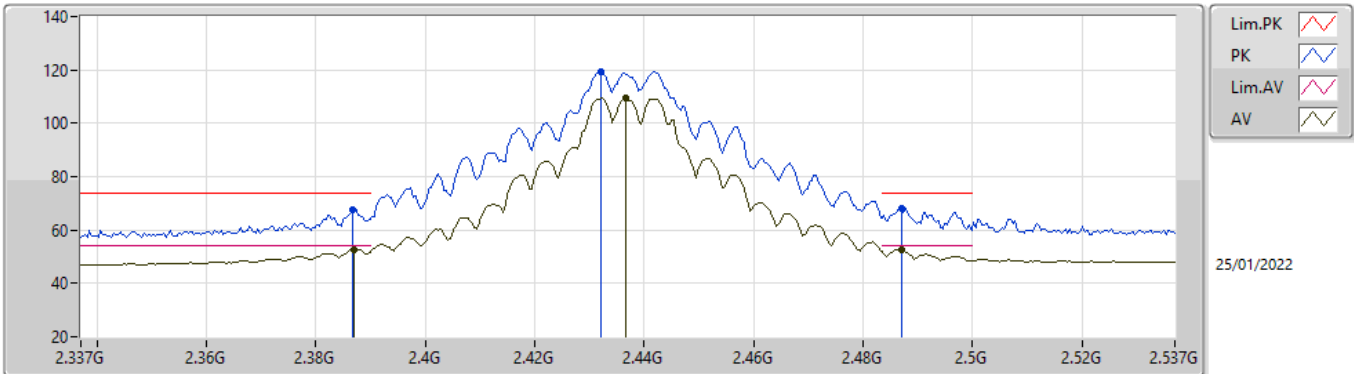


EUT_X_2TX
Setting 95
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	66.30	74.00	-7.70	35.13	3	Vertical	167	1.76	-	28.38	2.79	-
AV	2.389G	51.62	54.00	-2.38	20.45	3	Vertical	167	1.76	-	28.38	2.79	-
PK	2.4346G	117.37	Inf	-Inf	86.14	3	Vertical	167	1.76	-	28.40	2.83	-
AV	2.4342G	107.69	Inf	-Inf	76.46	3	Vertical	167	1.76	-	28.40	2.83	-
PK	2.4842G	71.76	74.00	-2.24	40.34	3	Vertical	167	1.76	-	28.54	2.88	-
AV	2.4842G	53.91	54.00	-0.09	22.49	3	Vertical	167	1.76	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

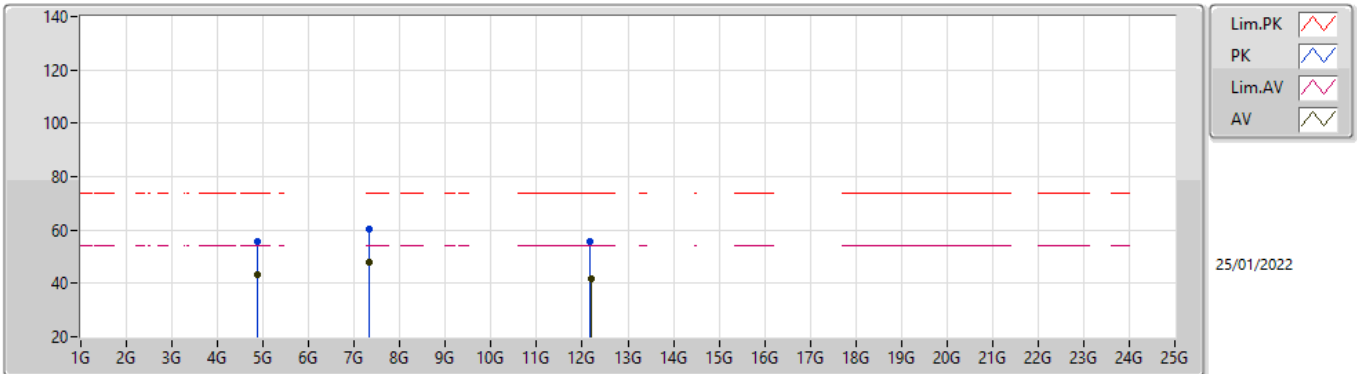


EUT_X_2TX
Setting 95
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	67.76	74.00	-6.24	36.60	3	Horizontal	39	1.92	-	28.37	2.79	-
AV	2.387G	52.80	54.00	-1.20	21.64	3	Horizontal	39	1.92	-	28.37	2.79	-
PK	2.4322G	119.28	Inf	-Inf	88.05	3	Horizontal	39	1.92	-	28.40	2.83	-
AV	2.4366G	109.37	Inf	-Inf	78.13	3	Horizontal	39	1.92	-	28.40	2.84	-
PK	2.487G	68.17	74.00	-5.83	36.73	3	Horizontal	39	1.92	-	28.55	2.89	-
AV	2.487G	52.69	54.00	-1.31	21.25	3	Horizontal	39	1.92	-	28.55	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

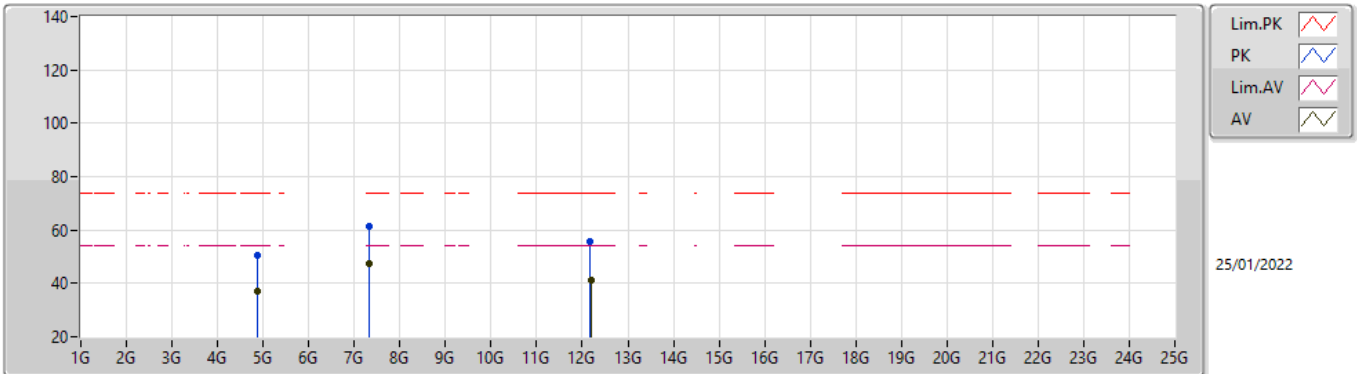


EUT_X_2TX
Setting 95
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87172G	55.71	74.00	-18.29	49.88	3	Vertical	311	2.09	-	32.94	5.10	32.21
AV	4.8761G	43.19	54.00	-10.81	37.34	3	Vertical	311	2.09	-	32.95	5.10	32.20
PK	7.31232G	60.30	74.00	-13.70	50.54	3	Vertical	345	1.80	-	36.42	6.16	32.82
AV	7.3125G	47.70	54.00	-6.30	37.94	3	Vertical	345	1.80	-	36.42	6.16	32.82
PK	12.1748G	55.90	74.00	-18.10	42.17	3	Vertical	257	1.81	-	38.93	8.19	33.39
AV	12.18518G	41.74	54.00	-12.26	28.03	3	Vertical	257	1.81	-	38.91	8.19	33.39

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

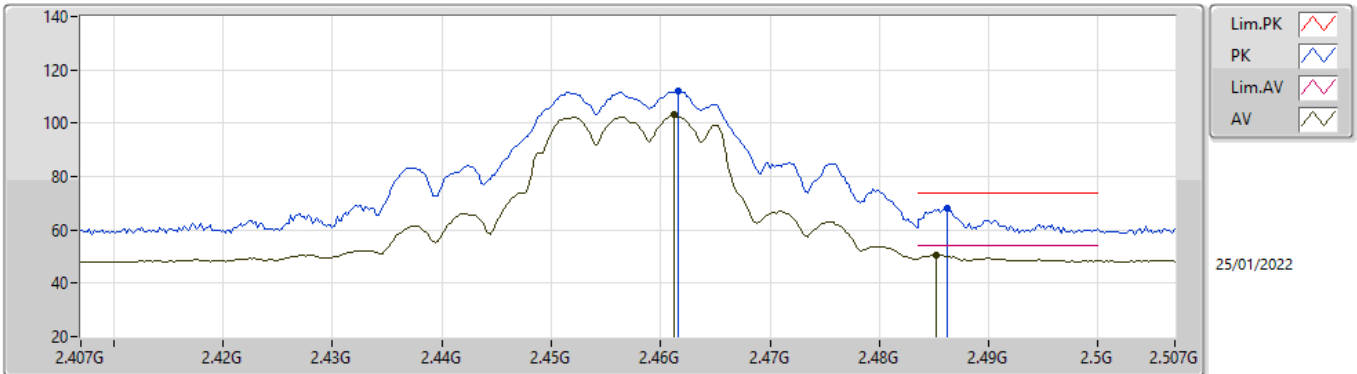


EUT_X_2TX
Setting 95
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86776G	50.69	74.00	-23.31	44.86	3	Horizontal	207	1.80	-	32.94	5.10	32.21
AV	4.87286G	37.23	54.00	-16.77	31.39	3	Horizontal	207	1.80	-	32.95	5.10	32.21
PK	7.31412G	61.13	74.00	-12.87	51.37	3	Horizontal	316	1.79	-	36.43	6.16	32.83
AV	7.31394G	47.40	54.00	-6.60	37.64	3	Horizontal	316	1.79	-	36.43	6.16	32.83
PK	12.18254G	55.68	74.00	-18.32	41.96	3	Horizontal	176	1.85	-	38.92	8.19	33.39
AV	12.1832G	41.32	54.00	-12.68	27.60	3	Horizontal	176	1.85	-	38.92	8.19	33.39

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

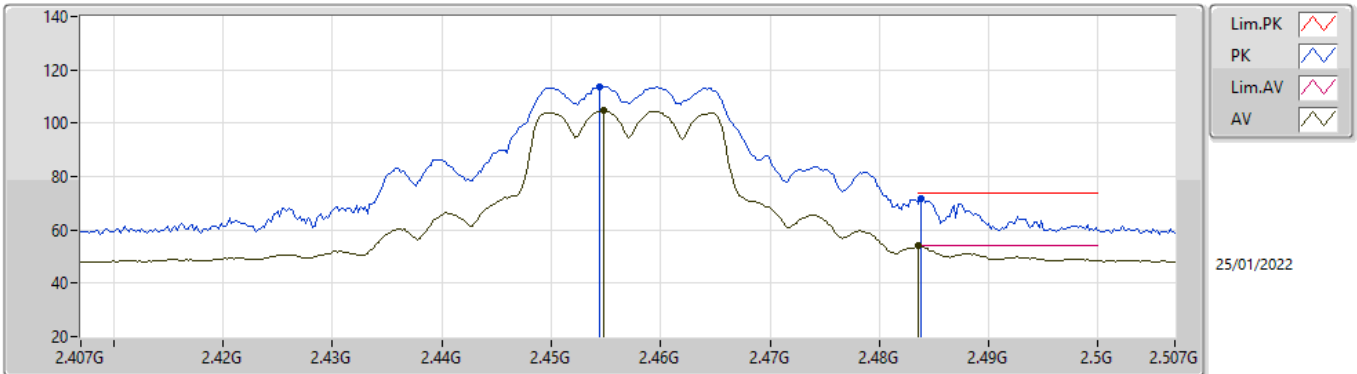


EUT X_2TX
Setting 73
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4616G	112.01	Inf	-Inf	80.70	3	Vertical	276	1.90	-	28.45	2.86	-
AV	2.4612G	103.08	Inf	-Inf	71.78	3	Vertical	276	1.90	-	28.44	2.86	-
PK	2.4862G	68.19	74.00	-5.81	36.76	3	Vertical	276	1.90	-	28.54	2.89	-
AV	2.4852G	50.75	54.00	-3.25	19.32	3	Vertical	276	1.90	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

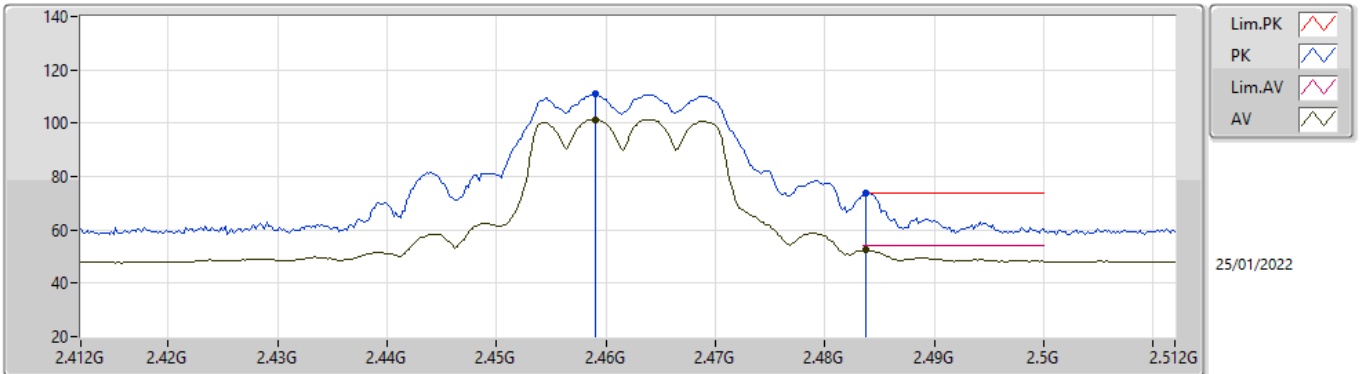


EUT X_2TX
Setting 73
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4544G	113.76	Inf	-Inf	82.49	3	Horizontal	46	2.30	-	28.42	2.85	-	
AV	2.4548G	104.57	Inf	-Inf	73.30	3	Horizontal	46	2.30	-	28.42	2.85	-	
PK	2.4838G	71.87	74.00	-2.13	40.45	3	Horizontal	46	2.30	-	28.54	2.88	-	
AV	2.4836G	53.90	54.00	-0.10	22.49	3	Horizontal	46	2.30	-	28.53	2.88	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

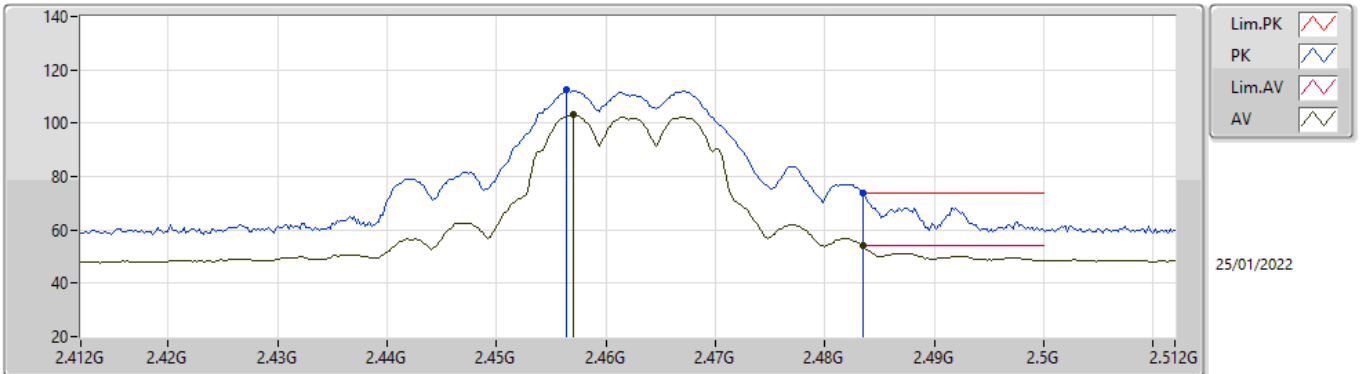


EUT X_2TX
Setting 66
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.459G	110.94	Inf	-Inf	79.64	3	Vertical	277	1.87	-	28.44	2.86	-	
AV	2.459G	101.45	Inf	-Inf	70.15	3	Vertical	277	1.87	-	28.44	2.86	-	
PK	2.4838G	73.91	74.00	-0.09	42.49	3	Vertical	277	1.87	-	28.54	2.88	-	
AV	2.4838G	52.36	54.00	-1.64	20.94	3	Vertical	277	1.87	-	28.54	2.88	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

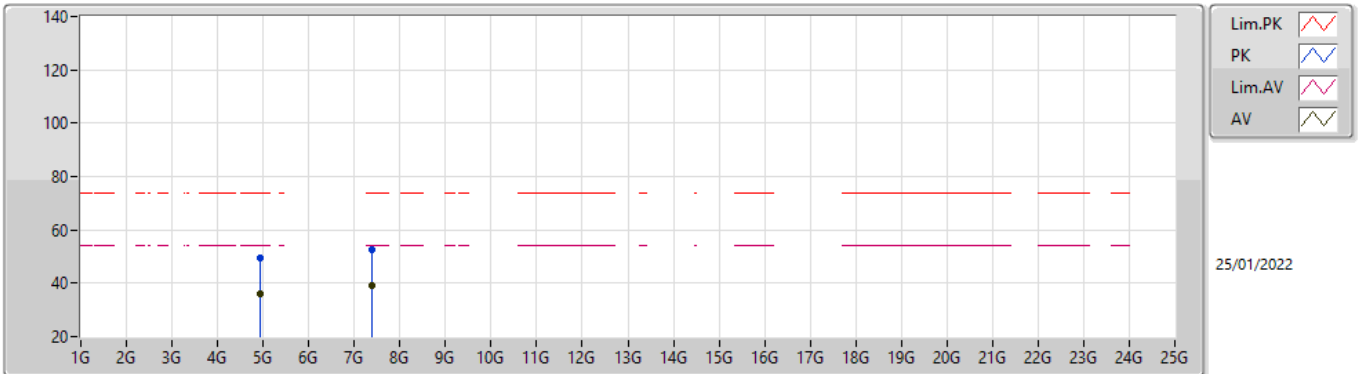


EUT_X_2TX
Setting 66
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4564G	112.47	Inf	-Inf	81.18	3	Horizontal	42	1.87	-	28.43	2.86	-
AV	2.457G	103.08	Inf	-Inf	71.79	3	Horizontal	42	1.87	-	28.43	2.86	-
PK	2.4835G	73.94	74.00	-0.06	42.53	3	Horizontal	42	1.87	-	28.53	2.88	-
AV	2.4835G	53.97	54.00	-0.03	22.56	3	Horizontal	42	1.87	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

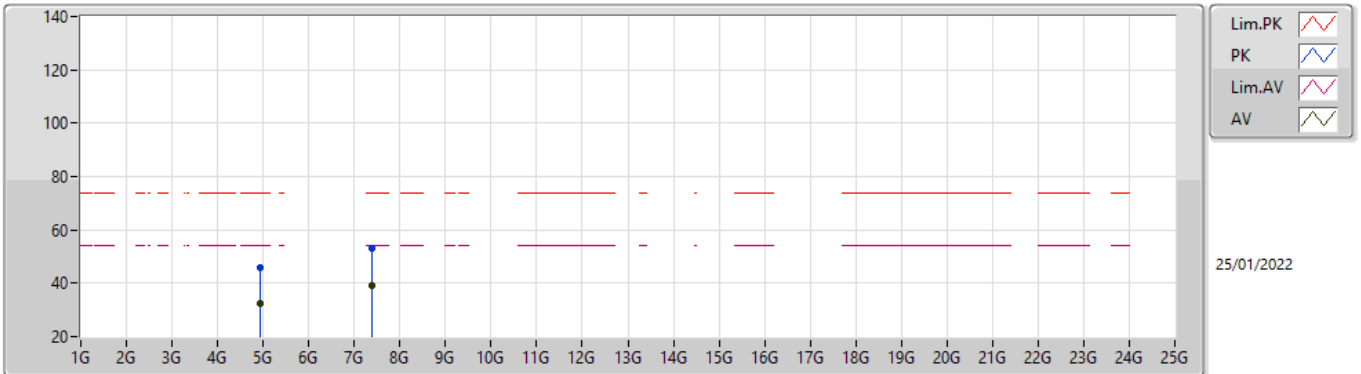


EUT X_2TX
Setting 66
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92178G	49.65	74.00	-24.35	43.61	3	Vertical	315	2.26	-	33.13	5.10	32.19
AV	4.9225G	36.12	54.00	-17.88	30.08	3	Vertical	315	2.26	-	33.13	5.10	32.19
PK	7.38G	52.51	74.00	-21.49	42.70	3	Vertical	347	2.89	-	36.56	6.19	32.94
AV	7.38564G	39.10	54.00	-14.90	29.29	3	Vertical	347	2.89	-	36.57	6.19	32.95

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



EUT X_2TX
Setting 66
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92328G	45.70	74.00	-28.30	39.65	3	Horizontal	204	1.89	-	33.14	5.10	32.19
AV	4.92304G	32.53	54.00	-21.47	26.48	3	Horizontal	204	1.89	-	33.14	5.10	32.19
PK	7.3896G	53.02	74.00	-20.98	43.21	3	Horizontal	322	1.78	-	36.58	6.19	32.96
AV	7.38432G	39.16	54.00	-14.84	29.35	3	Horizontal	322	1.78	-	36.57	6.19	32.95



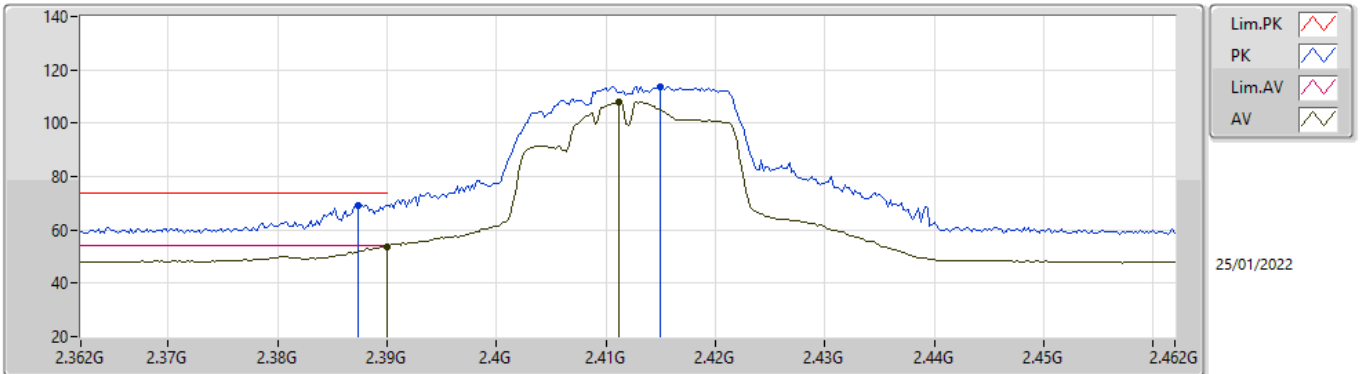
For beamforming mode

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	2.39G	53.97	54.00	-0.03	3	Horizontal	134	2.86	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

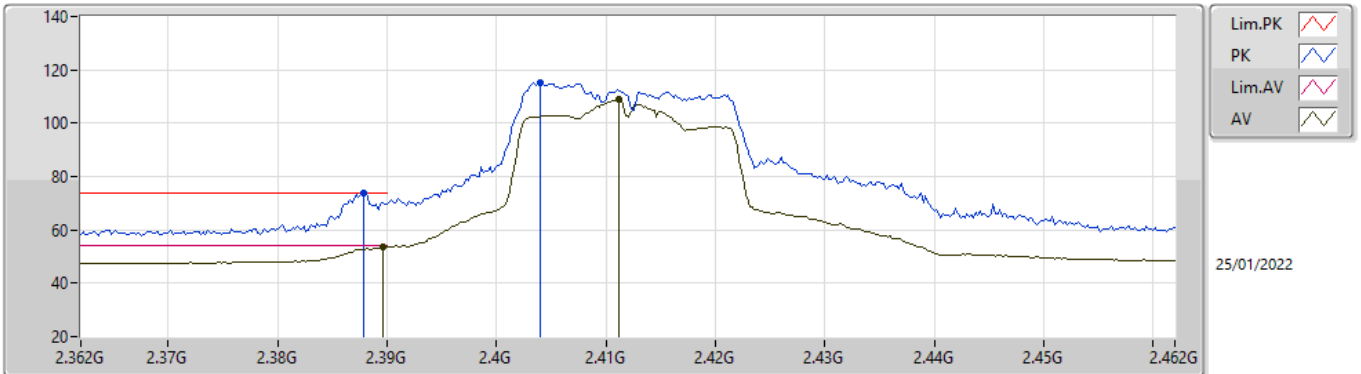


EUT X_2TX
Setting 68
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	69.34	74.00	-4.66	38.18	3	Vertical	269	1.68	-	28.37	2.79	-
AV	2.39G	53.85	54.00	-0.15	22.68	3	Vertical	269	1.68	-	28.38	2.79	-
PK	2.415G	113.83	Inf	-Inf	82.62	3	Vertical	269	1.68	-	28.40	2.81	-
AV	2.4112G	108.13	Inf	-Inf	76.92	3	Vertical	269	1.68	-	28.40	2.81	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

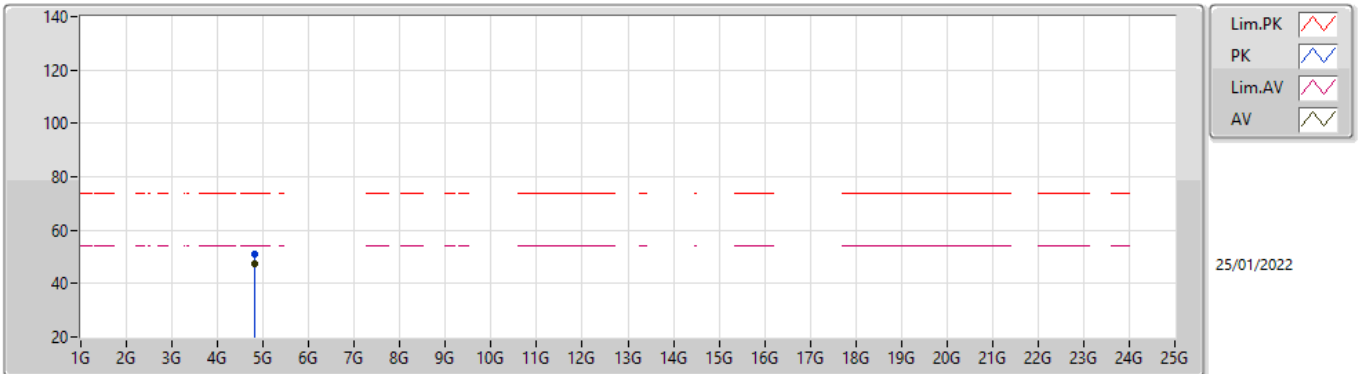


EUT X_2TX
Setting 68
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3878G	73.60	74.00	-0.40	42.43	3	Horizontal	125	2.80	-	28.38	2.79	-	
AV	2.3896G	53.48	54.00	-0.52	22.31	3	Horizontal	125	2.80	-	28.38	2.79	-	
PK	2.404G	114.96	Inf	-Inf	83.76	3	Horizontal	125	2.80	-	28.40	2.80	-	
AV	2.4112G	108.77	Inf	-Inf	77.56	3	Horizontal	125	2.80	-	28.40	2.81	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

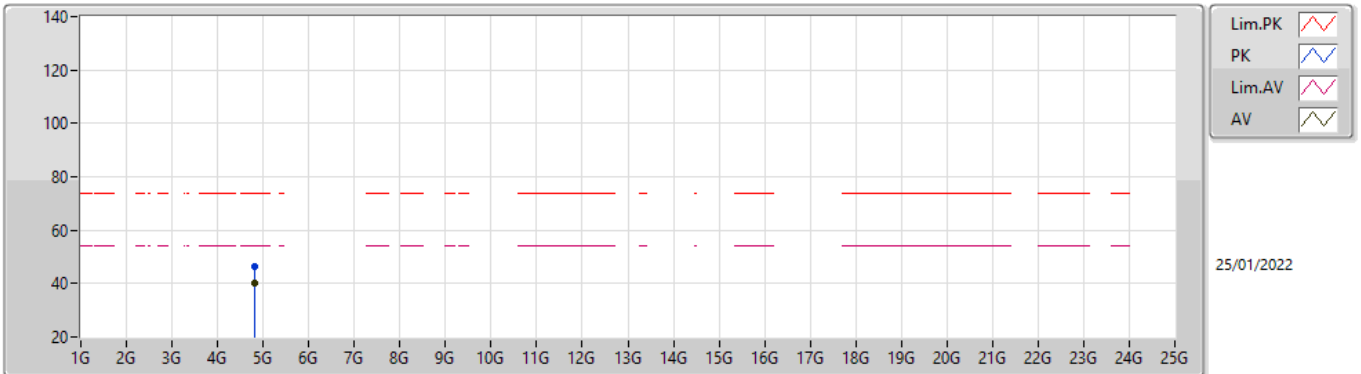


EUT X_2TX
Setting 68
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8239G	51.09	74.00	-22.91	45.41	3	Vertical	288	1.80	-	32.80	5.10	32.22	
AV	4.82396G	47.48	54.00	-6.52	41.80	3	Vertical	288	1.80	-	32.80	5.10	32.22	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

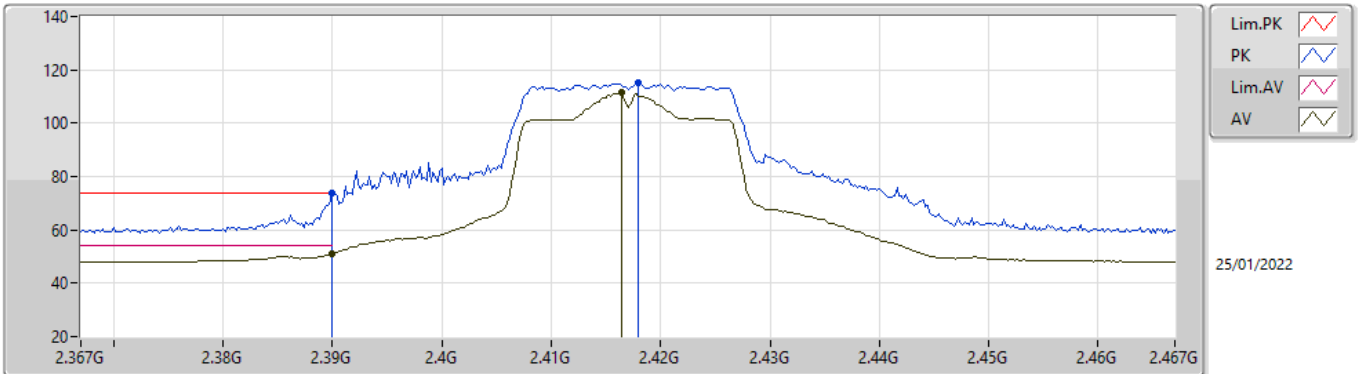


EUT X_2TX
Setting 68
02-B-C-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82406G	46.50	74.00	-27.50	40.82	3	Horizontal	332	1.76	-	32.80	5.10	32.22
AV	4.82408G	40.28	54.00	-13.72	34.60	3	Horizontal	332	1.76	-	32.80	5.10	32.22

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

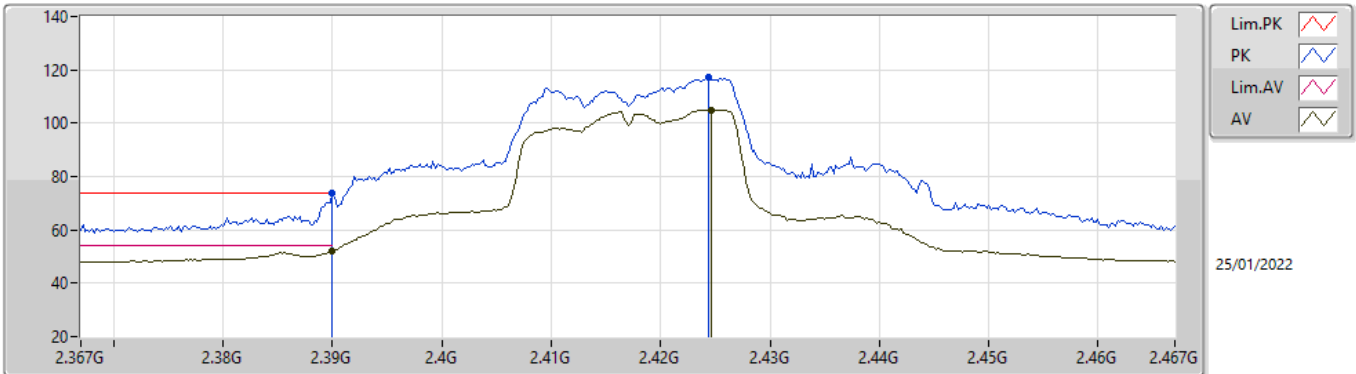


EUT X_2TX
Setting 72
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	73.81	74.00	-0.19	42.64	3	Vertical	228	1.66	-	28.38	2.79	-
AV	2.39G	51.19	54.00	-2.81	20.02	3	Vertical	228	1.66	-	28.38	2.79	-
PK	2.418G	115.27	Inf	-Inf	84.05	3	Vertical	228	1.66	-	28.40	2.82	-
AV	2.4164G	111.41	Inf	-Inf	80.19	3	Vertical	228	1.66	-	28.40	2.82	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

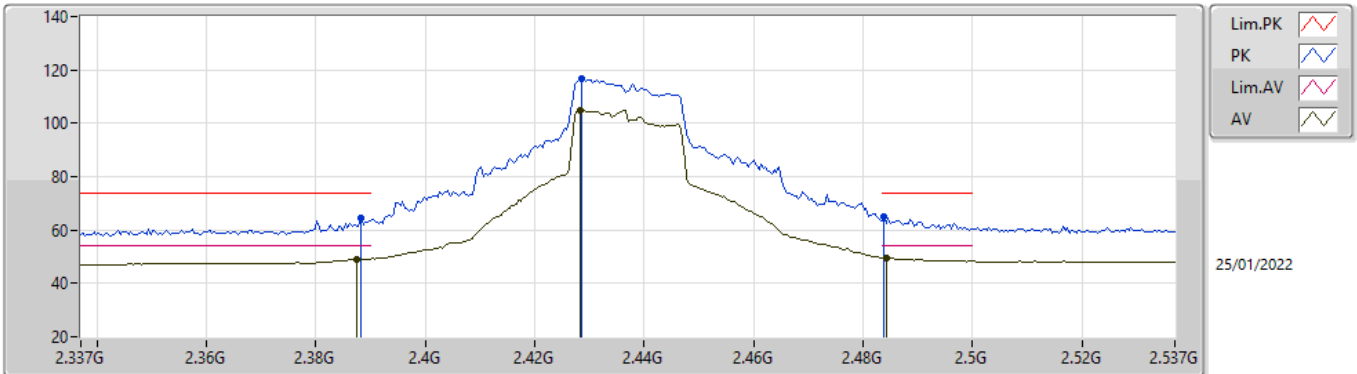


EUT X_2TX
Setting 72
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	73.72	74.00	-0.28	42.55	3	Horizontal	129.5	2.37	-	28.38	2.79	-
AV	2.39G	52.15	54.00	-1.85	20.98	3	Horizontal	129.5	2.37	-	28.38	2.79	-
PK	2.4244G	117.06	Inf	-Inf	85.84	3	Horizontal	129.5	2.37	-	28.40	2.82	-
AV	2.4246G	105.07	Inf	-Inf	73.85	3	Horizontal	129.5	2.37	-	28.40	2.82	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

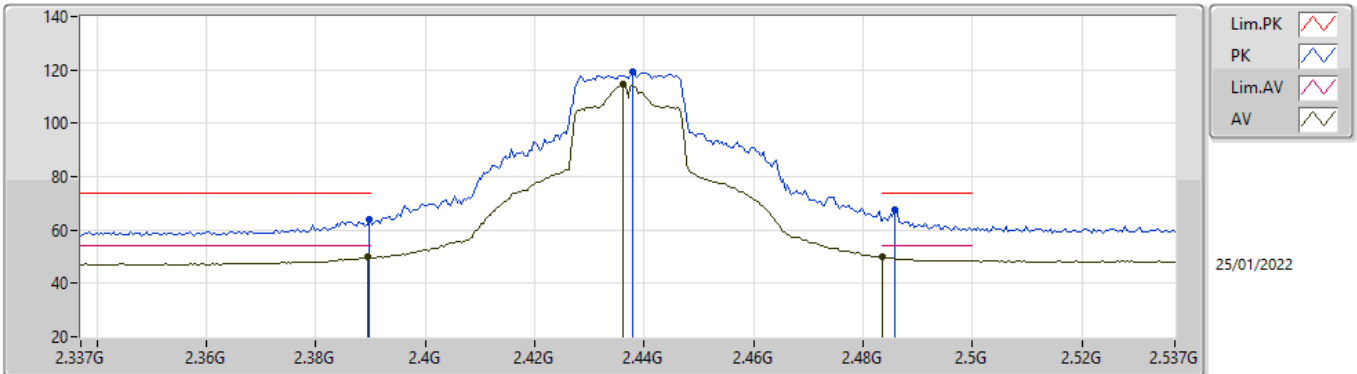


EUT_X_2TX
Setting 86
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3882G	64.55	74.00	-9.45	33.38	3	Vertical	262	2.68	-	28.38	2.79	-
AV	2.3874G	49.13	54.00	-4.87	17.97	3	Vertical	262	2.68	-	28.37	2.79	-
PK	2.4286G	116.98	Inf	-Inf	85.75	3	Vertical	262	2.68	-	28.40	2.83	-
AV	2.4282G	105.05	Inf	-Inf	73.82	3	Vertical	262	2.68	-	28.40	2.83	-
PK	2.4838G	64.90	74.00	-9.10	33.48	3	Vertical	262	2.68	-	28.54	2.88	-
AV	2.4842G	49.54	54.00	-4.46	18.12	3	Vertical	262	2.68	-	28.54	2.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

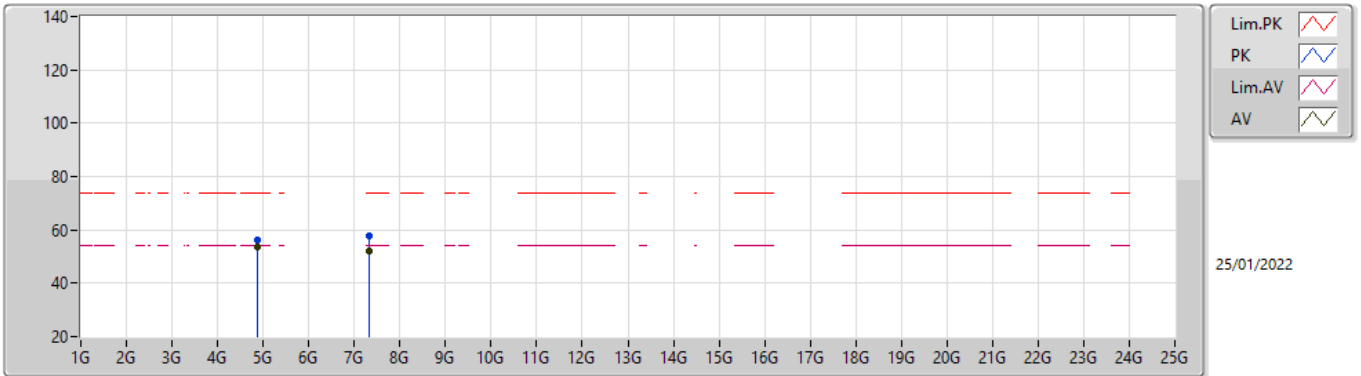


EUT_X_2TX
Setting 86
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.75	74.00	-10.25	32.58	3	Horizontal	33	1.91	-	28.38	2.79	-
AV	2.3894G	49.95	54.00	-4.05	18.78	3	Horizontal	33	1.91	-	28.38	2.79	-
PK	2.4378G	119.31	Inf	-Inf	88.07	3	Horizontal	33	1.91	-	28.40	2.84	-
AV	2.4362G	114.46	Inf	-Inf	83.22	3	Horizontal	33	1.91	-	28.40	2.84	-
PK	2.4858G	67.37	74.00	-6.63	35.94	3	Horizontal	33	1.91	-	28.54	2.89	-
AV	2.4835G	49.81	54.00	-4.19	18.40	3	Horizontal	33	1.91	-	28.53	2.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

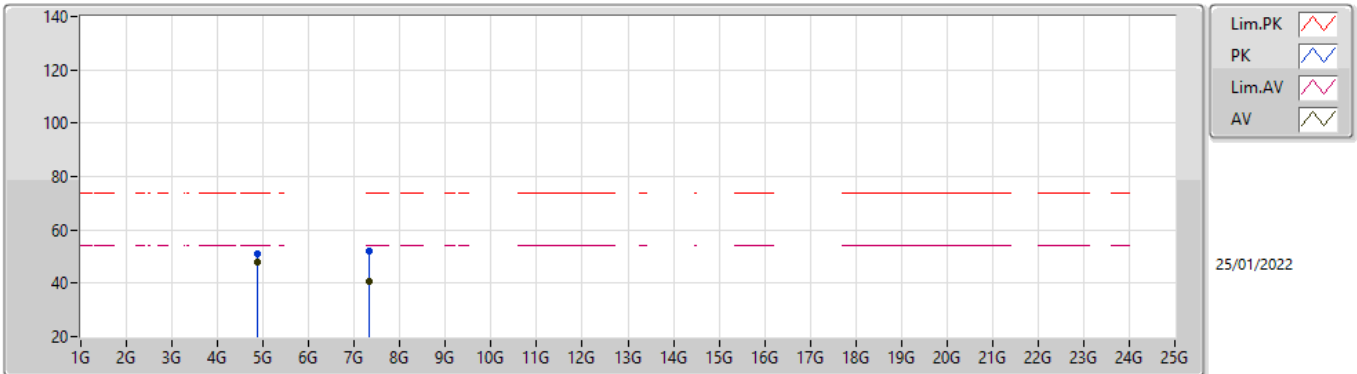


EUT X_2TX
Setting 86
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.85888G	56.29	74.00	-17.71	50.48	3	Vertical	307	1.58	-	32.92	5.10	32.21
AV	4.874G	53.51	54.00	-0.49	47.67	3	Vertical	307	1.58	-	32.95	5.10	32.21
PK	7.31188G	57.62	74.00	-16.38	47.86	3	Vertical	346	2.09	-	36.42	6.16	32.82
AV	7.31172G	52.23	54.00	-1.77	42.47	3	Vertical	346	2.09	-	36.42	6.16	32.82

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

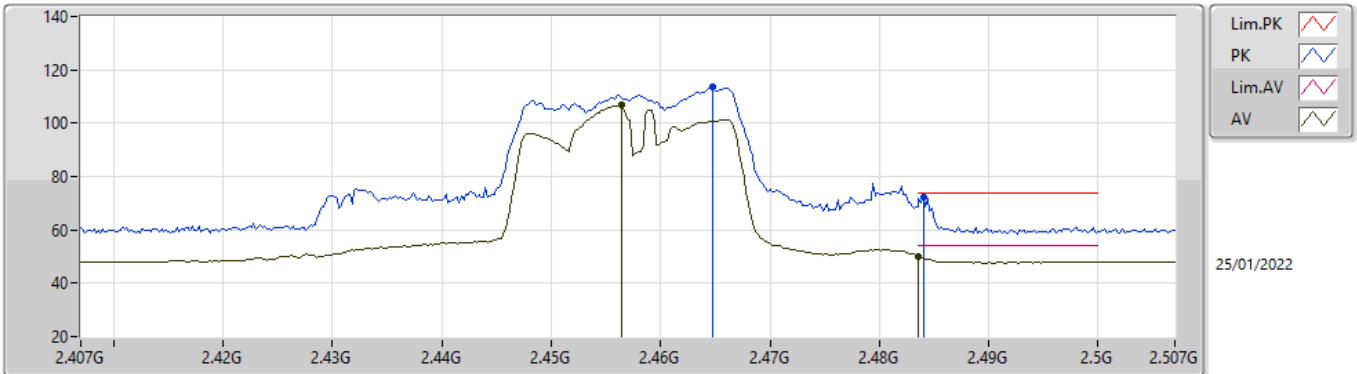


EUT X_2TX
Setting 86
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	51.25	74.00	-22.75	45.41	3	Horizontal	202	1.80	-	32.95	5.10	32.21
AV	4.874G	47.74	54.00	-6.26	41.90	3	Horizontal	202	1.80	-	32.95	5.10	32.21
PK	7.31708G	52.16	74.00	-21.84	42.40	3	Horizontal	69	1.76	-	36.43	6.16	32.83
AV	7.31276G	40.80	54.00	-13.20	31.03	3	Horizontal	69	1.76	-	36.43	6.16	32.82

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

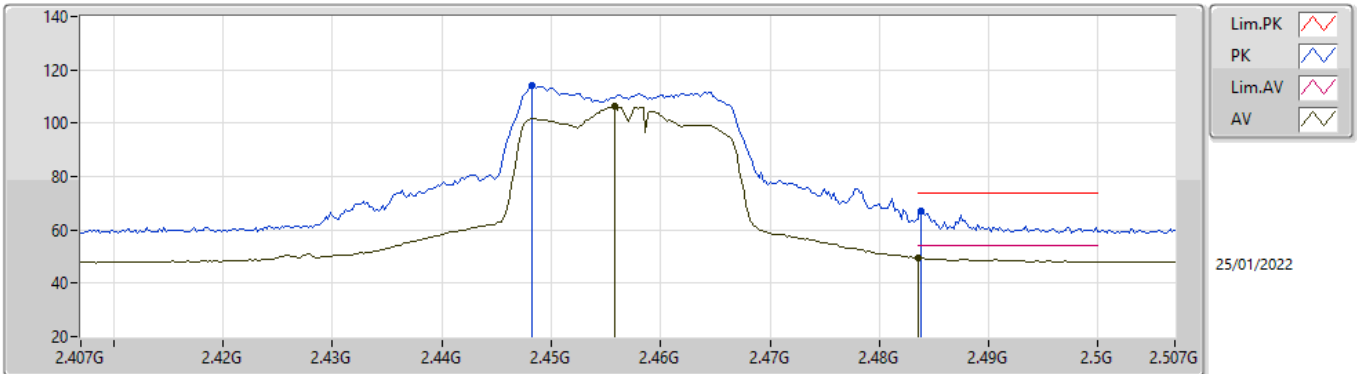


EUT_X_2TX
Setting 59
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4648G	113.38	Inf	-Inf	82.06	3	Vertical	96	2.76	-	28.46	2.86	-
AV	2.4564G	106.80	Inf	-Inf	75.51	3	Vertical	96	2.76	-	28.43	2.86	-
PK	2.484G	72.26	74.00	-1.74	40.84	3	Vertical	96	2.76	-	28.54	2.88	-
AV	2.4836G	50.19	54.00	-3.81	18.78	3	Vertical	96	2.76	-	28.53	2.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

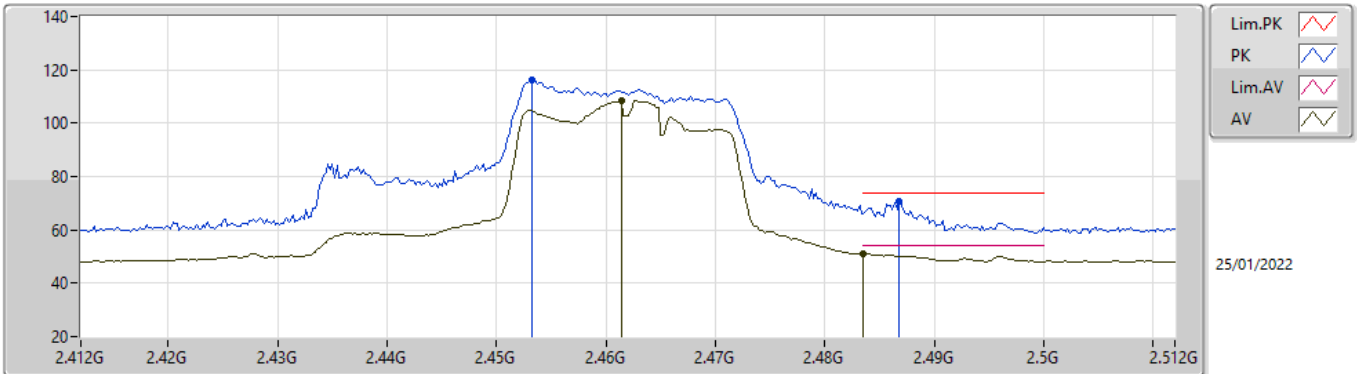


EUT X_2TX
Setting 59
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4482G	114.01	Inf	-Inf	82.76	3	Horizontal	128	2.77	-	28.40	2.85	-
AV	2.4558G	106.56	Inf	-Inf	75.28	3	Horizontal	128	2.77	-	28.42	2.86	-
PK	2.4838G	66.91	74.00	-7.09	35.49	3	Horizontal	128	2.77	-	28.54	2.88	-
AV	2.4835G	49.43	54.00	-4.57	18.02	3	Horizontal	128	2.77	-	28.53	2.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

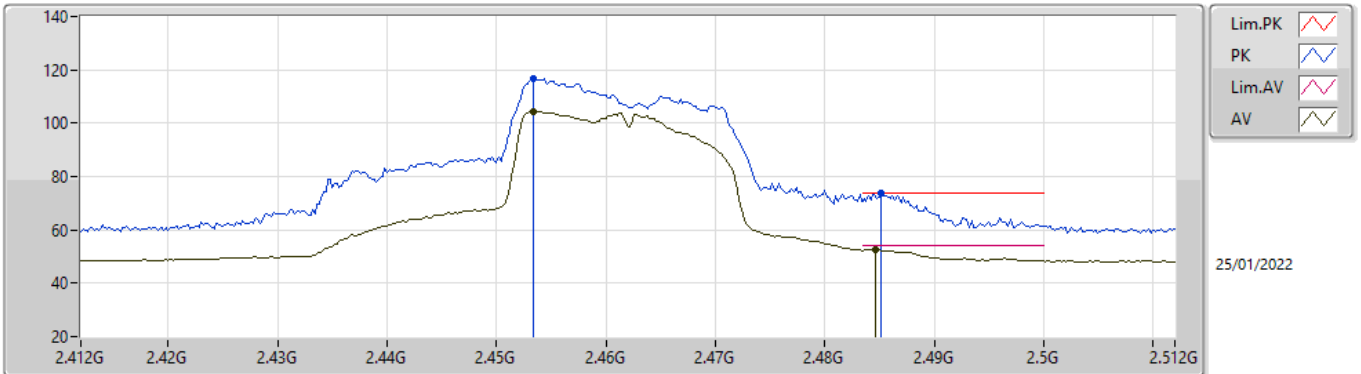


EUT X_2TX
Setting 69
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4532G	116.40	Inf	-Inf	85.14	3	Vertical	308	1.64	-	28.41	2.85	-
AV	2.4614G	108.51	Inf	-Inf	77.20	3	Vertical	308	1.64	-	28.45	2.86	-
PK	2.4868G	70.57	74.00	-3.43	39.13	3	Vertical	308	1.64	-	28.55	2.89	-
AV	2.4835G	50.85	54.00	-3.15	19.44	3	Vertical	308	1.64	-	28.53	2.88	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

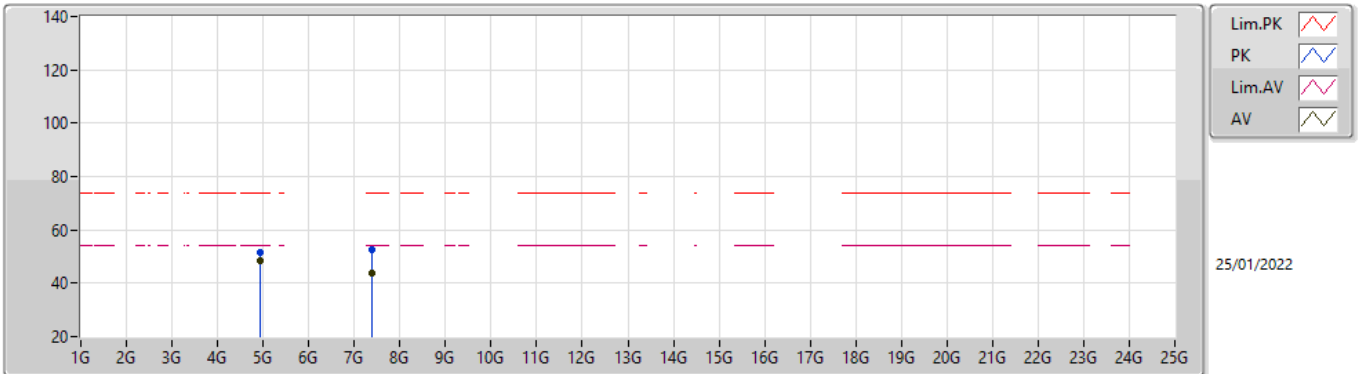


EUT X_2TX
Setting 69
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4534G	116.69	Inf	-Inf	85.43	3	Horizontal	124.3	1.04	-	28.41	2.85	-	
AV	2.4534G	104.31	Inf	-Inf	73.05	3	Horizontal	124.3	1.04	-	28.41	2.85	-	
PK	2.4852G	73.79	74.00	-0.21	42.36	3	Horizontal	124.3	1.04	-	28.54	2.89	-	
AV	2.4846G	52.58	54.00	-1.42	21.16	3	Horizontal	124.3	1.04	-	28.54	2.88	-	

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

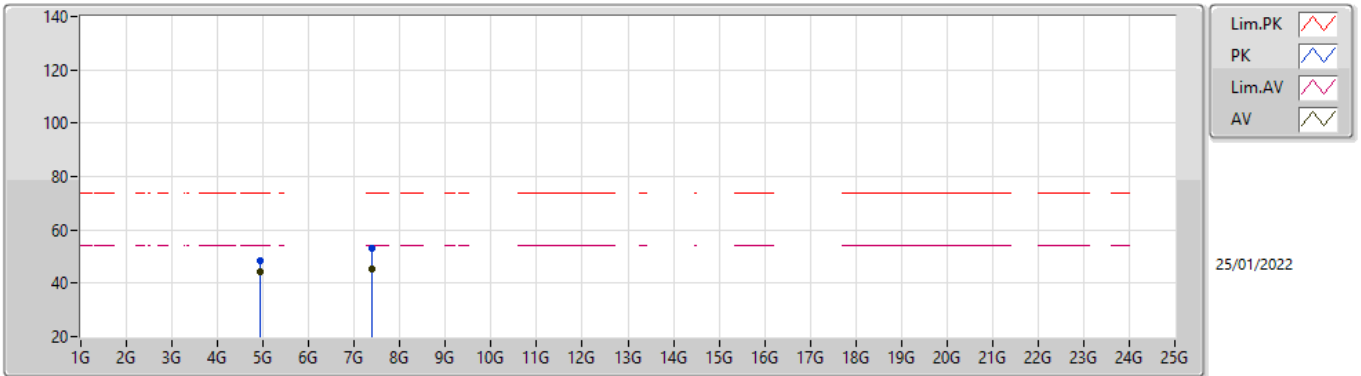


EUT_X_2TX
Setting 69
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	51.79	74.00	-22.21	45.74	3	Vertical	313	1.46	-	33.14	5.10	32.19
AV	4.924G	48.47	54.00	-5.53	42.42	3	Vertical	313	1.46	-	33.14	5.10	32.19
PK	7.3848G	52.36	74.00	-21.64	42.55	3	Vertical	308	2.06	-	36.57	6.19	32.95
AV	7.38528G	43.86	54.00	-10.14	34.05	3	Vertical	308	2.06	-	36.57	6.19	32.95

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

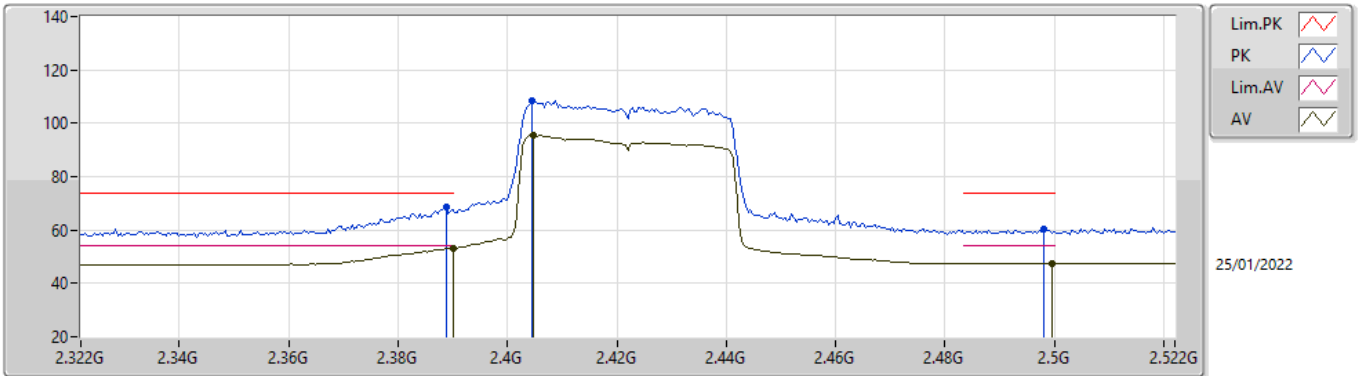


EUT X_2TX
Setting 69
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	48.54	74.00	-25.46	42.49	3	Horizontal	196	2.17	-	33.14	5.10	32.19
AV	4.924G	44.47	54.00	-9.53	38.42	3	Horizontal	196	2.17	-	33.14	5.10	32.19
PK	7.38712G	53.20	74.00	-20.80	43.39	3	Horizontal	319	1.62	-	36.57	6.19	32.95
AV	7.3868G	45.48	54.00	-8.52	35.67	3	Horizontal	319	1.62	-	36.57	6.19	32.95

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

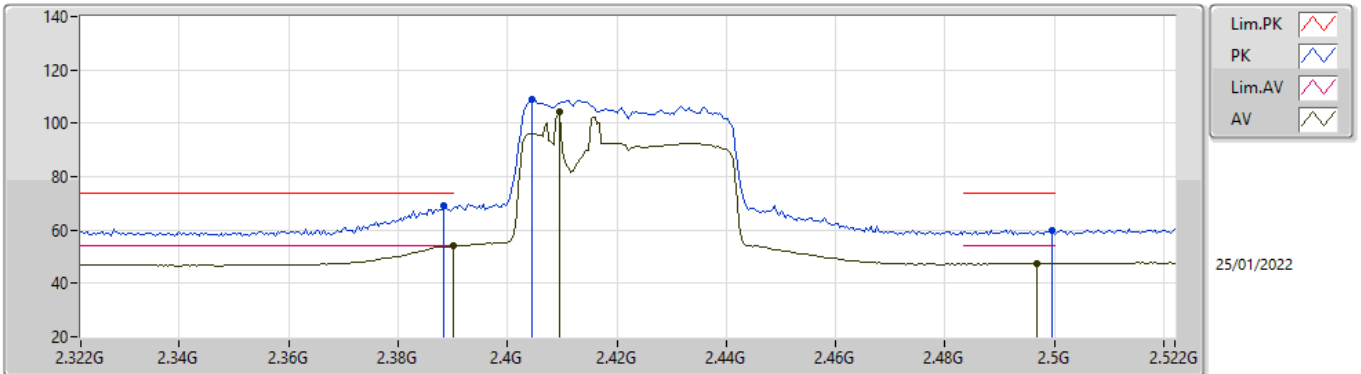


EUT_X_2TX
Setting 51
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3888G	68.64	74.00	-5.36	37.47	3	Vertical	293.6	1.80	-	28.38	2.79	-
AV	2.39G	53.21	54.00	-0.79	22.04	3	Vertical	293.6	1.80	-	28.38	2.79	-
PK	2.4044G	108.39	Inf	-Inf	77.19	3	Vertical	293.6	1.80	-	28.40	2.80	-
AV	2.4048G	95.52	Inf	-Inf	64.32	3	Vertical	293.6	1.80	-	28.40	2.80	-
PK	2.498G	60.09	74.00	-13.91	28.60	3	Vertical	293.6	1.80	-	28.59	2.90	-
AV	2.4996G	47.40	54.00	-6.60	15.90	3	Vertical	293.6	1.80	-	28.60	2.90	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

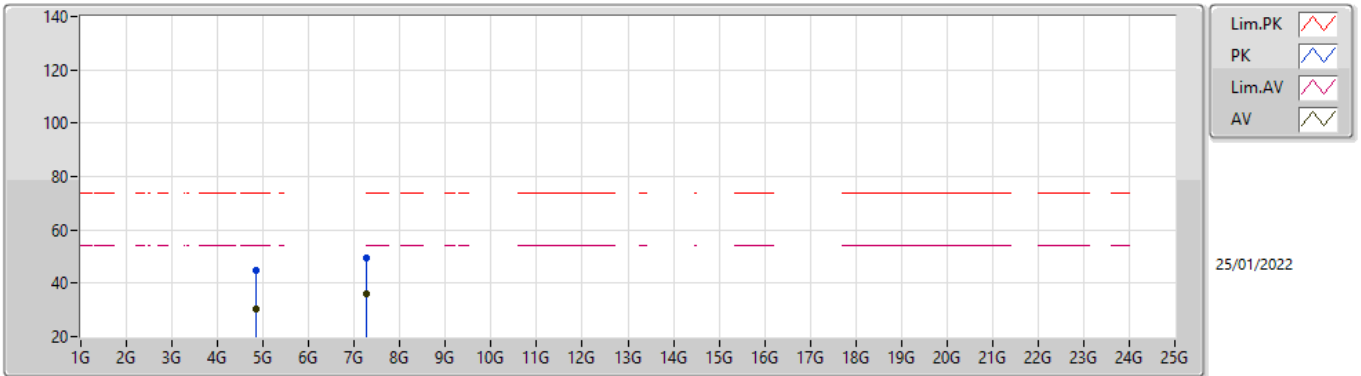


EUT_X_2TX
Setting 51
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3884G	69.39	74.00	-4.61	38.22	3	Horizontal	134	2.86	-	28.38	2.79	-
AV	2.39G	53.97	54.00	-0.03	22.80	3	Horizontal	134	2.86	-	28.38	2.79	-
PK	2.4044G	108.89	Inf	-Inf	77.69	3	Horizontal	134	2.86	-	28.40	2.80	-
AV	2.4096G	104.08	Inf	-Inf	72.87	3	Horizontal	134	2.86	-	28.40	2.81	-
PK	2.4996G	60.03	74.00	-13.97	28.53	3	Horizontal	134	2.86	-	28.60	2.90	-
AV	2.4968G	47.36	54.00	-6.64	15.87	3	Horizontal	134	2.86	-	28.59	2.90	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

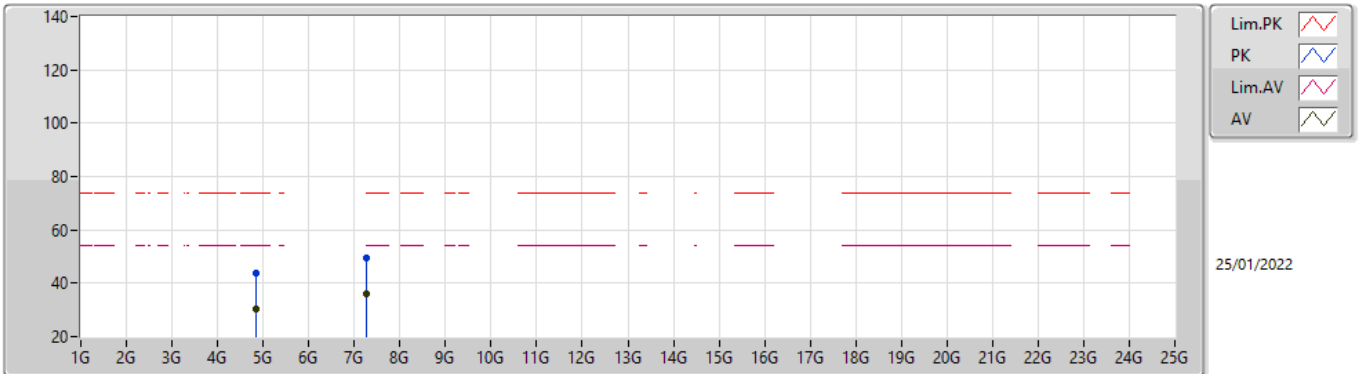


EUTX_2TX
Setting 51
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84062G	44.69	74.00	-29.31	38.95	3	Vertical	1	2.56	-	32.86	5.10	32.22
AV	4.8444G	30.29	54.00	-23.71	24.53	3	Vertical	1	2.56	-	32.88	5.10	32.22
PK	7.26426G	49.35	74.00	-24.65	39.77	3	Vertical	237	2.08	-	36.19	6.13	32.74
AV	7.26284G	35.95	54.00	-18.05	26.38	3	Vertical	237	2.08	-	36.18	6.13	32.74

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

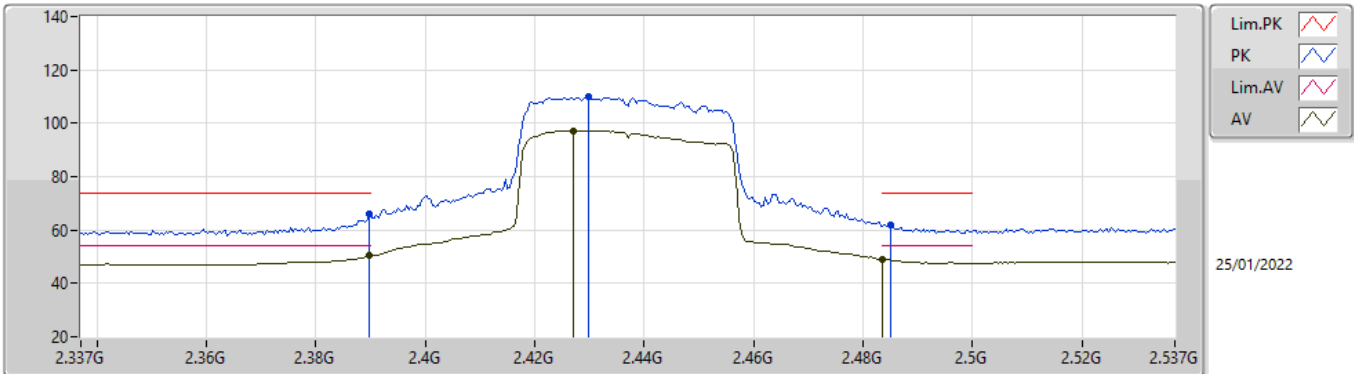


EUTX_2TX
Setting 51
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83998G	43.86	74.00	-30.14	38.12	3	Horizontal	52	2.80	-	32.86	5.10	32.22
AV	4.8458G	30.44	54.00	-23.56	24.68	3	Horizontal	52	2.80	-	32.88	5.10	32.22
PK	7.26502G	49.65	74.00	-24.35	40.07	3	Horizontal	67	2.54	-	36.19	6.13	32.74
AV	7.2634G	35.89	54.00	-18.11	26.32	3	Horizontal	67	2.54	-	36.18	6.13	32.74

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

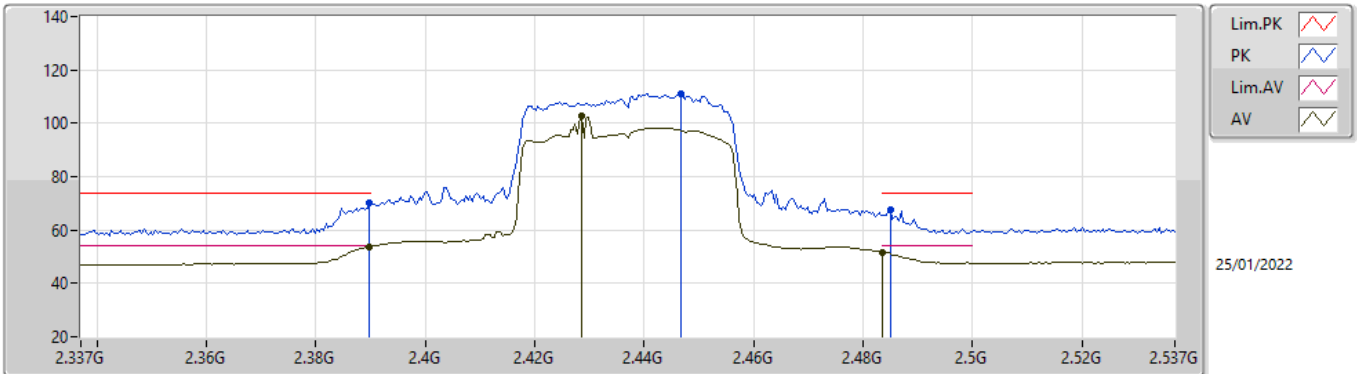


EUT_X_2TX
Setting 60
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.05	74.00	-7.95	34.88	3	Vertical	181.9	1.80	-	28.38	2.79	-
AV	2.3898G	50.29	54.00	-3.71	19.12	3	Vertical	181.9	1.80	-	28.38	2.79	-
PK	2.4298G	109.99	Inf	-Inf	78.76	3	Vertical	181.9	1.80	-	28.40	2.83	-
AV	2.427G	97.29	Inf	-Inf	66.06	3	Vertical	181.9	1.80	-	28.40	2.83	-
PK	2.485G	61.79	74.00	-12.21	30.36	3	Vertical	181.9	1.80	-	28.54	2.89	-
AV	2.4835G	49.07	54.00	-4.93	17.66	3	Vertical	181.9	1.80	-	28.53	2.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

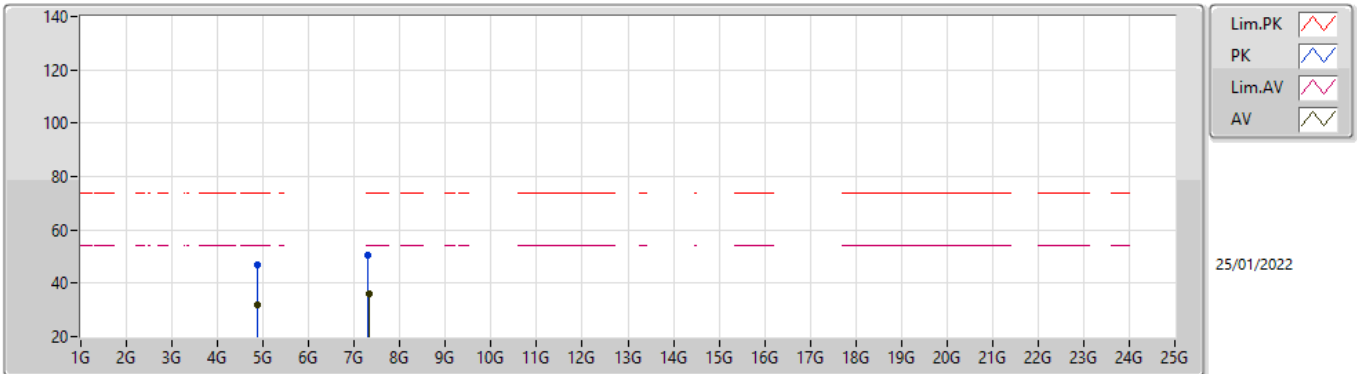


EUT_X_2TX
Setting 60
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	70.10	74.00	-3.90	38.93	3	Horizontal	124.6	2.81	-	28.38	2.79	-
AV	2.3898G	53.85	54.00	-0.15	22.68	3	Horizontal	124.6	2.81	-	28.38	2.79	-
PK	2.4466G	111.25	Inf	-Inf	80.00	3	Horizontal	124.6	2.81	-	28.40	2.85	-
AV	2.4286G	102.99	Inf	-Inf	71.76	3	Horizontal	124.6	2.81	-	28.40	2.83	-
PK	2.485G	67.48	74.00	-6.52	36.05	3	Horizontal	124.6	2.81	-	28.54	2.89	-
AV	2.4835G	51.74	54.00	-2.26	20.33	3	Horizontal	124.6	2.81	-	28.53	2.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

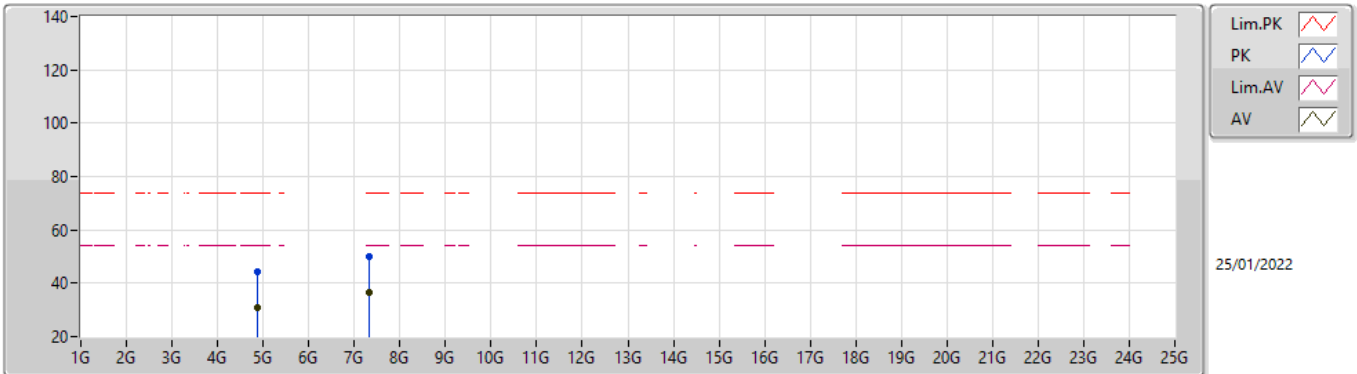


EUT X_2TX
Setting 60
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	46.90	74.00	-27.10	41.06	3	Vertical	298	1.01	-	32.95	5.10	32.21
AV	4.87384G	32.12	54.00	-21.88	26.28	3	Vertical	298	1.01	-	32.95	5.10	32.21
PK	7.30796G	50.36	74.00	-23.64	40.61	3	Vertical	209	2.57	-	36.42	6.15	32.82
AV	7.31712G	36.25	54.00	-17.75	26.49	3	Vertical	209	2.57	-	36.43	6.16	32.83

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

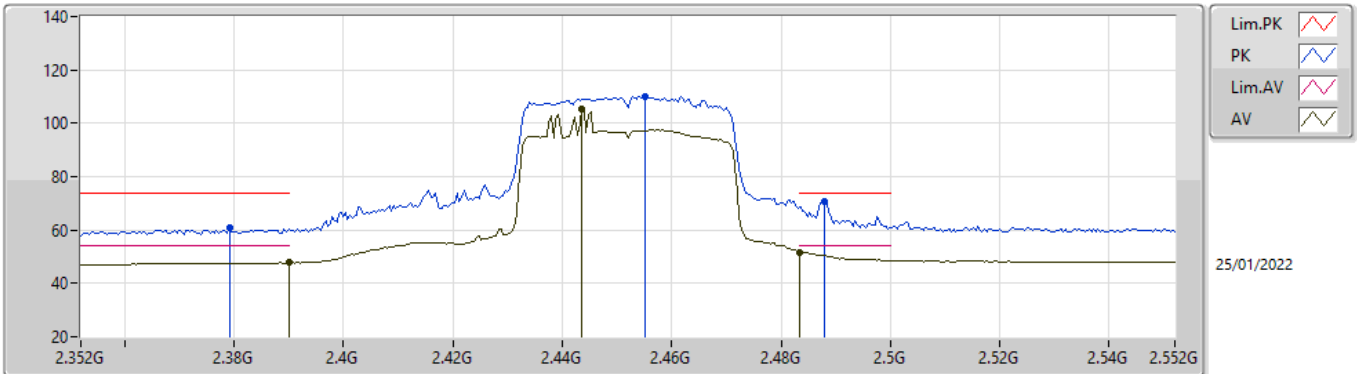


EUT X_2TX
Setting 60
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.88296G	44.06	74.00	-29.94	38.19	3	Horizontal	103	2.49	-	32.97	5.10	32.20
AV	4.86644G	30.78	54.00	-23.22	24.96	3	Horizontal	103	2.49	-	32.93	5.10	32.21
PK	7.31964G	49.83	74.00	-24.17	40.07	3	Horizontal	297	1.07	-	36.44	6.16	32.84
AV	7.31968G	36.35	54.00	-17.65	26.59	3	Horizontal	297	1.07	-	36.44	6.16	32.84

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

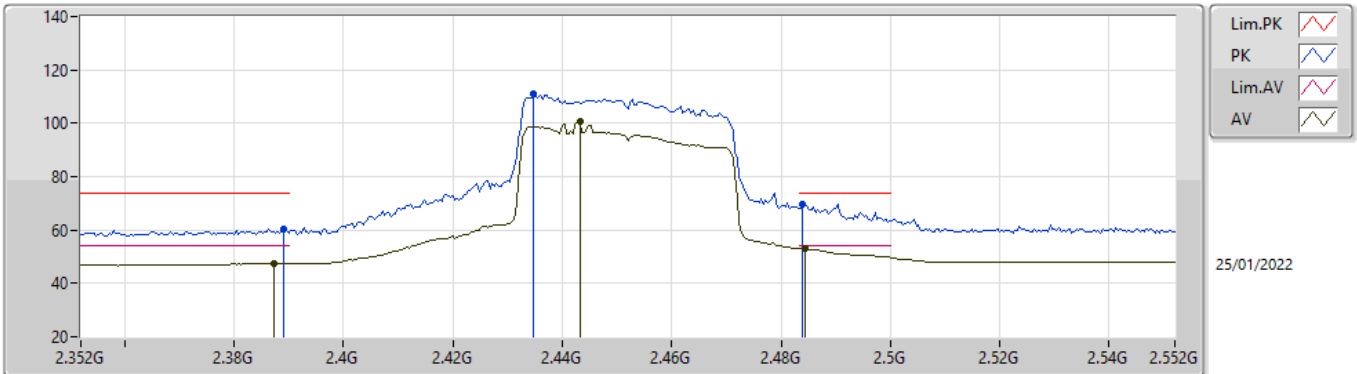


EUT_X_2TX
Setting 62
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3792G	60.65	74.00	-13.35	29.50	3	Vertical	214	1.64	-	28.36	2.79	-
AV	2.39G	47.74	54.00	-6.26	16.57	3	Vertical	214	1.64	-	28.38	2.79	-
PK	2.4552G	110.23	Inf	-Inf	78.95	3	Vertical	214	1.64	-	28.42	2.86	-
AV	2.4436G	105.16	Inf	-Inf	73.92	3	Vertical	214	1.64	-	28.40	2.84	-
PK	2.488G	70.94	74.00	-3.06	39.50	3	Vertical	214	1.64	-	28.55	2.89	-
AV	2.4835G	51.81	54.00	-2.19	20.40	3	Vertical	214	1.64	-	28.53	2.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

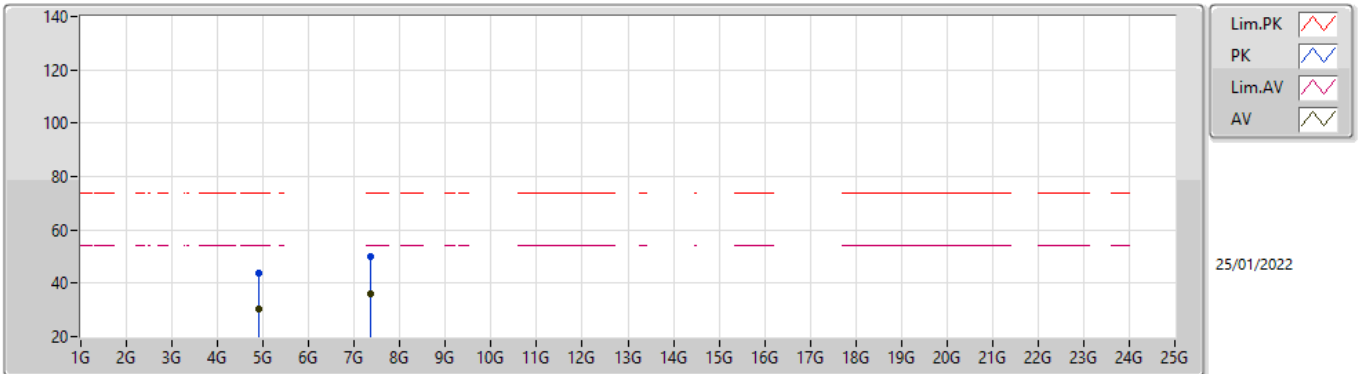


EUT_X_2TX
Setting 62
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	60.36	74.00	-13.64	29.19	3	Horizontal	29.4	1.34	-	28.38	2.79	-
AV	2.3872G	47.48	54.00	-6.52	16.32	3	Horizontal	29.4	1.34	-	28.37	2.79	-
PK	2.4348G	110.92	Inf	-Inf	79.69	3	Horizontal	29.4	1.34	-	28.40	2.83	-
AV	2.4432G	100.48	Inf	-Inf	69.24	3	Horizontal	29.4	1.34	-	28.40	2.84	-
PK	2.484G	69.83	74.00	-4.17	38.41	3	Horizontal	29.4	1.34	-	28.54	2.88	-
AV	2.4844G	53.06	54.00	-0.94	21.64	3	Horizontal	29.4	1.34	-	28.54	2.88	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

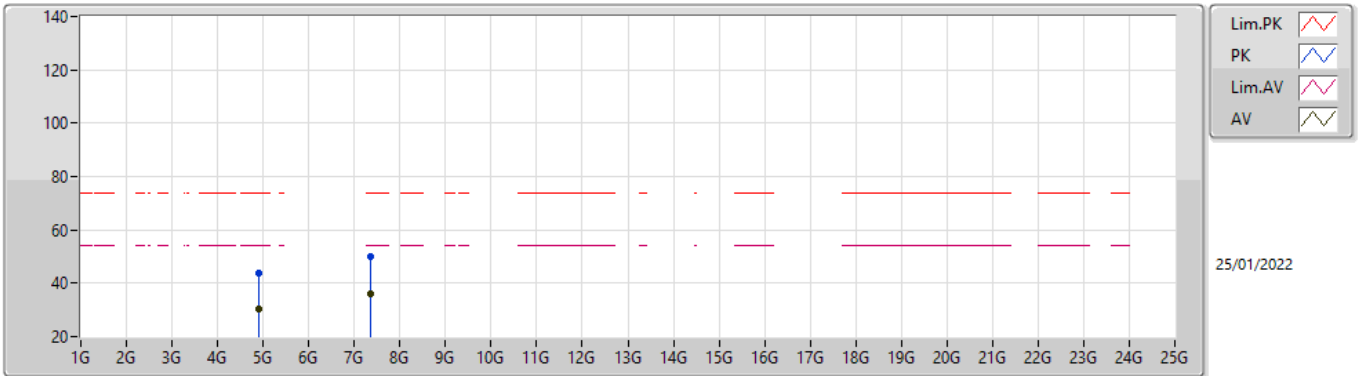


EUT X_2TX
Setting 62
02-B-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90796G	44.02	74.00	-29.98	38.06	3	Vertical	250	1.74	-	33.05	5.10	32.19
AV	4.90412G	30.11	54.00	-23.89	24.18	3	Vertical	250	1.74	-	33.02	5.10	32.19
PK	7.35182G	49.80	74.00	-24.20	40.01	3	Vertical	45	2.84	-	36.50	6.18	32.89
AV	7.35474G	36.21	54.00	-17.79	26.42	3	Vertical	45	2.84	-	36.51	6.18	32.90

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2452MHz_TX



EUT X_2TX
Setting 62
02-B-K-5

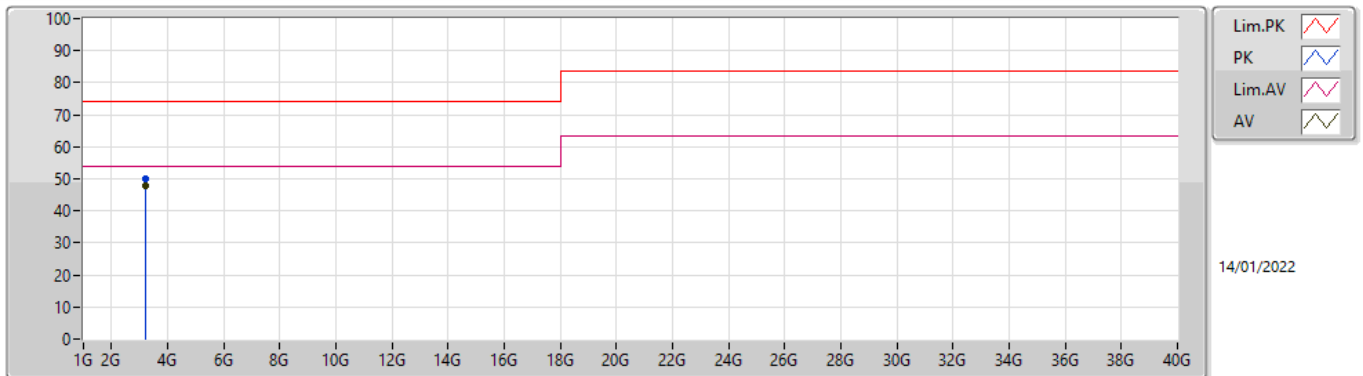
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9005G	43.55	74.00	-30.45	37.65	3	Horizontal	330	2.40	-	33.00	5.10	32.20
AV	4.9042G	30.12	54.00	-23.88	24.18	3	Horizontal	330	2.40	-	33.03	5.10	32.19
PK	7.35828G	50.17	74.00	-23.83	40.37	3	Horizontal	22	2.71	-	36.52	6.18	32.90
AV	7.35106G	36.21	54.00	-17.79	26.42	3	Horizontal	22	2.71	-	36.50	6.18	32.89



Summary

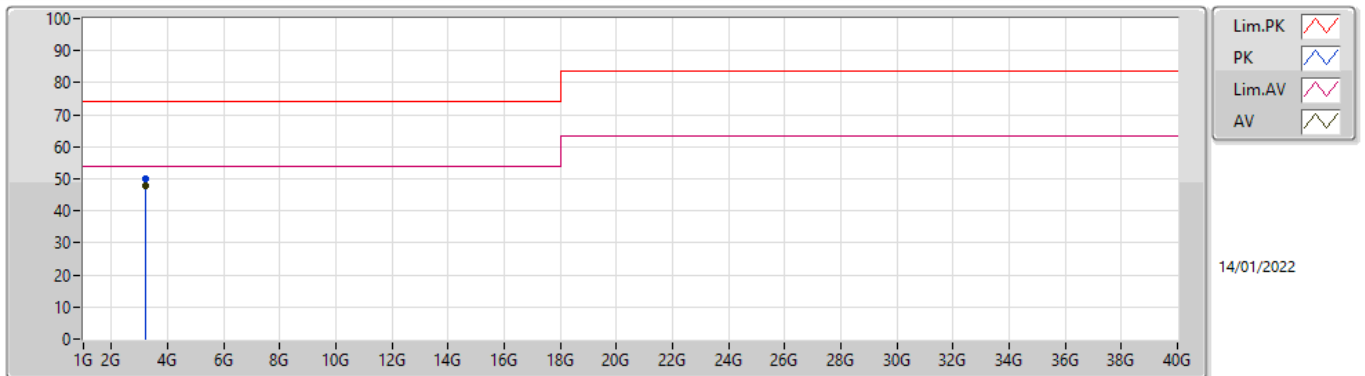
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.19987G	47.90	54.00	-6.10	Horizontal

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	3.19991G	50.05	74.00	-23.95	-2.46	3	Vertical	196	1.51	-	52.51	28.60	5.80	36.86
AV	3.19987G	47.77	54.00	-6.23	-2.46	3	Vertical	196	1.51	"Worst"	50.23	28.60	5.80	36.86

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	3.2G	50.04	74.00	-23.96	-2.46	3	Horizontal	198	1.00	-	52.50	28.60	5.80	36.86
AV	3.19987G	47.90	54.00	-6.10	-2.46	3	Horizontal	198	1.00	"Worst"	50.36	28.60	5.80	36.86