Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	Z3WAIR4985
Equipment	:	Wi-Fi 6E Smart Mesh System
Brand Name	:	Airties
Model Name	:	Air 4985
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 Aug. 19, 2022, and testing was started from Aug. 24, 2022 and completed on Sep. 21, 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
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR281911AA	01	Initial issue of report	Dec. 02, 2022

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: Sandy Chuang

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

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

1.1.2 Antenna Information

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

Note 1:

<Antenna Gain>

Ant.	Port			Antenna Gain (dBi)								
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz			
					UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8
1	1	-	1	4.21	-	-	-	-	1.32	1.46	1.76	2.61
2	2	-	2	4.42	-	-	-	-	1.62	1.98	2.47	2.12
3	-	1	-	-	3.49	3.27	2.85	2.09	-	-	-	-
4	-	2	-	-	3.58	2.61	4.52	2.72	-	-	-	-
5	-	3	-	-	2.41	2.6	3.51	5.47	-	-	-	-
6	-	4	-	-	4.45	4.89	4.53	4.93	-	-	-	-

< Directional Gain>

Item	Directional Gain (dBi)								
	WLAN 2.4GHz	WLAN 5GHz				WLAN 6GHz			
		UNII 1	UNII 2A	UNII 2C	UNII 3	UNII 5	UNII 6	UNII 7	UNII 8
2T1S	4.52	-	-	-	-	3.75	3.57	4.12	4.26
4T1S	-	4.57	4.92	5.39	5.58	-	-	-	-

Note 2: The above information (except gain) was declared by manufacturer.
The directional gain is measured which follows the procedure of KDB 662911 D03.

Note 3: The EUT has six antennas.:

For 2.4GHz function:
For 802.11 b/g/n/VHT/ax (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
For 5GHz function:
For 802.11a/n/ac/ax (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.
For 6GHz function:
For 802.11ax (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.949	0.23	12.488m	100
802.11g	0.947	0.24	2.066m	1k
802.11ax HEW20-BF	0.949	0.23	2.928m	1k
802.11ax HEW40-BF	0.967	0.15	4.36m	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 and ax in 6GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	Mtool V3.2.1.3			
SW version	4.144.8.0_wltest			
HW version	PCB-4985-D01-M01-R02			
Serial Number (For RF TXBF mode)	J48LB2HV100035			
Serial Number (For other test items and RF TX Non-BF mode)	J48LB2HV100110			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports functions

Function	Support Band
AP Router	WLAN 2.4GHz, WLAN 5GHz UNII 1~3 and WLAN 6GHz UNII 5~8
Mesh	WLAN 5GHz UNII 1~3 and WLAN 6GHz UNII 5~8

Note 1: After evaluating, AP Router was selected to test and record in the report.

Note 2: The above information was declared by manufacturer.

1.2 Applicable Standards

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

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

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 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 ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Owen Hsu	25.3~26.2 / 74~77	Aug. 29, 2022~ Sep. 06, 2022
Radiated below 1GHz	03CH05-CB	Chris Lee	25.1~26.4 / 61~66	Sep. 16, 2022~ Sep. 19, 2022
Radiated above 1GHz	03CH02-CB	Gordon Hong	25.1~26.4 / 61~66	Aug. 24, 2022~ Sep. 02, 2022
Radiated Co-location	03CH05-CB	Gordon Hong	25.4~26.5 / 62~65	Sep. 17, 2022
AC Conduction	CO02-CB	Allen Chung	22~23 / 58~59	Sep. 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)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	85
2437MHz	96
2462MHz	87
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	65
2417MHz	77
2437MHz	89
2457MHz	75
2462MHz	62
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	62
2417MHz	68
2437MHz	88
2457MHz	74
2462MHz	54
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	50
2427MHz	54
2437MHz	63
2447MHz	56
2452MHz	53

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	AP Router Mode: EUT + 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	AP Router Mode: EUT in X axis + Adapter
2	AP Router Mode: EUT in Y axis + Adapter
3	AP Router Mode: EUT in Z axis + Adapter
For operating mode 3 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. The worst case was found at Z axis, thus the measurement will follow this same test
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT was performed at X axis, Y axis and Z axis position. EUT in Z axis has been evaluated to be the worst case at Emissions in Radiated measurement <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in Z axis: WLAN 2.4G+WLAN 6GHz
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.: FA281911 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:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated 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				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Rating**
1	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	2.5G WAN NB	DELL	E6430	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	6G NB	DELL	E6430	N/A
F	6G Client	INTEL	AX210	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E4300	N/A
B	2.4G NB	DELL	E4300	N/A
C	5G NB	DELL	E4300	N/A
D	6E NB	DELL	E4300	N/A
E	WAN NB	DELL	E4300	N/A

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

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

<Beamforming mode>

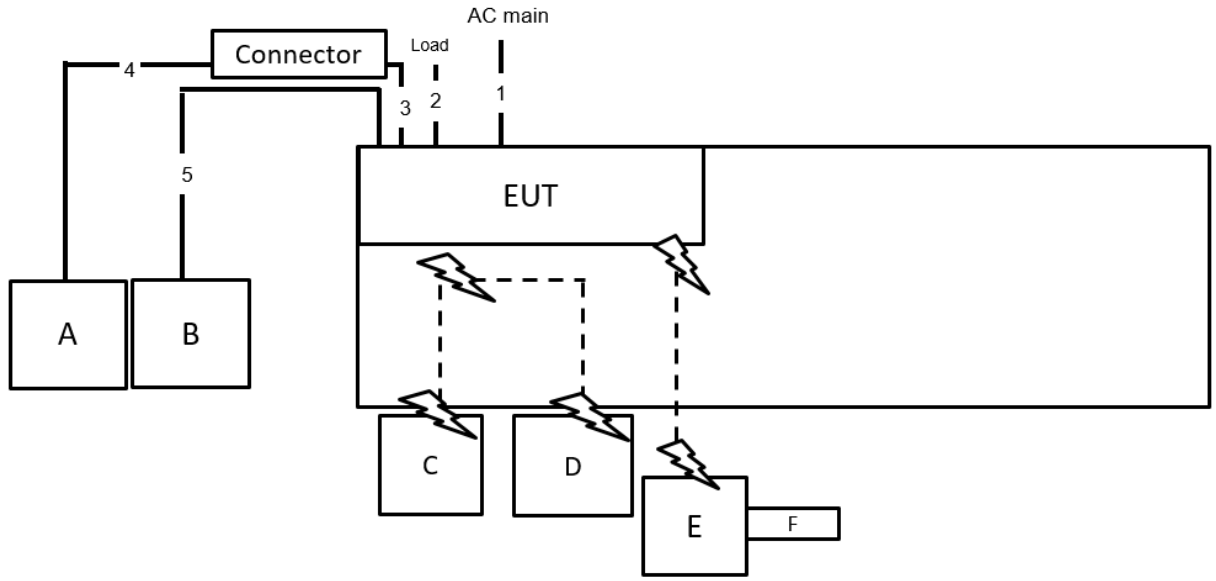
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	WLAN module	Intel	AX210	N/A
C	NB	DELL	E4300	N/A

For RF Conducted:

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

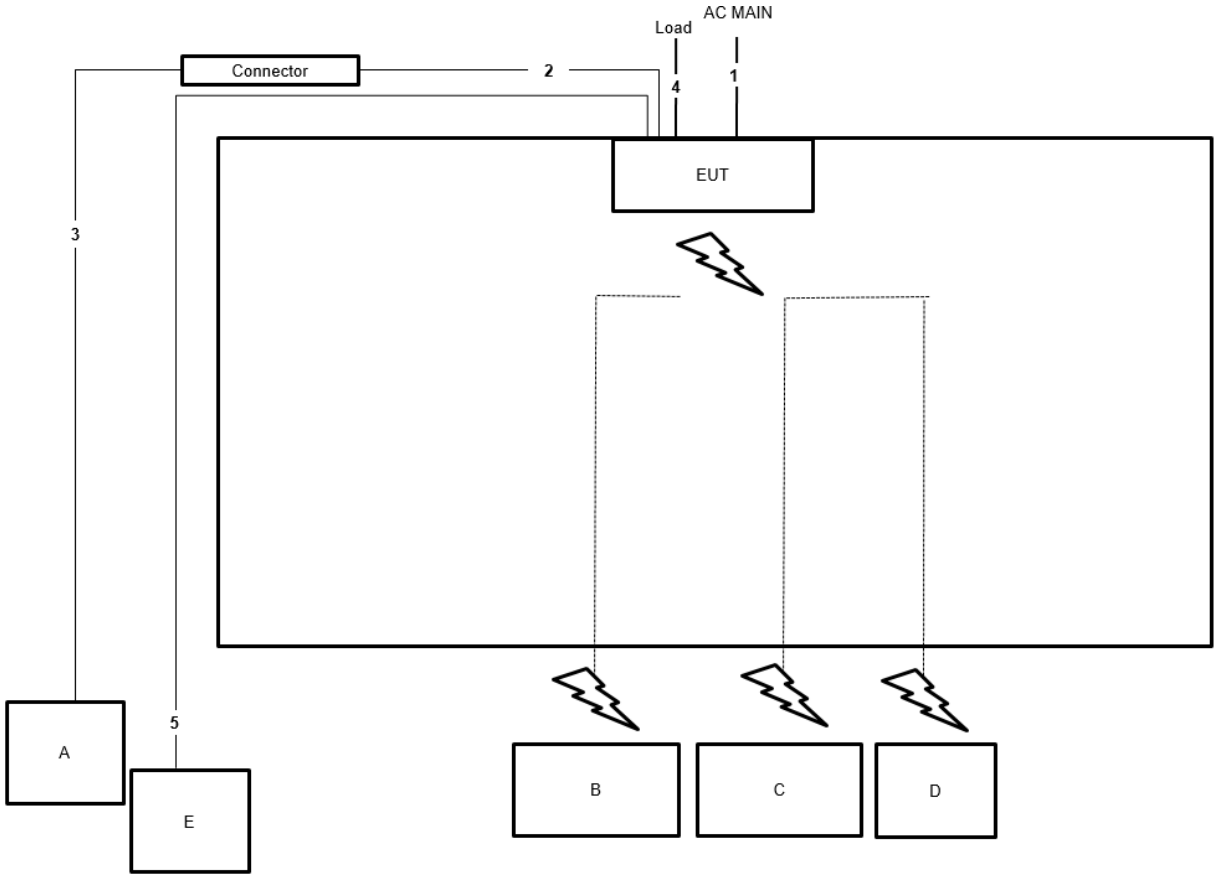
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



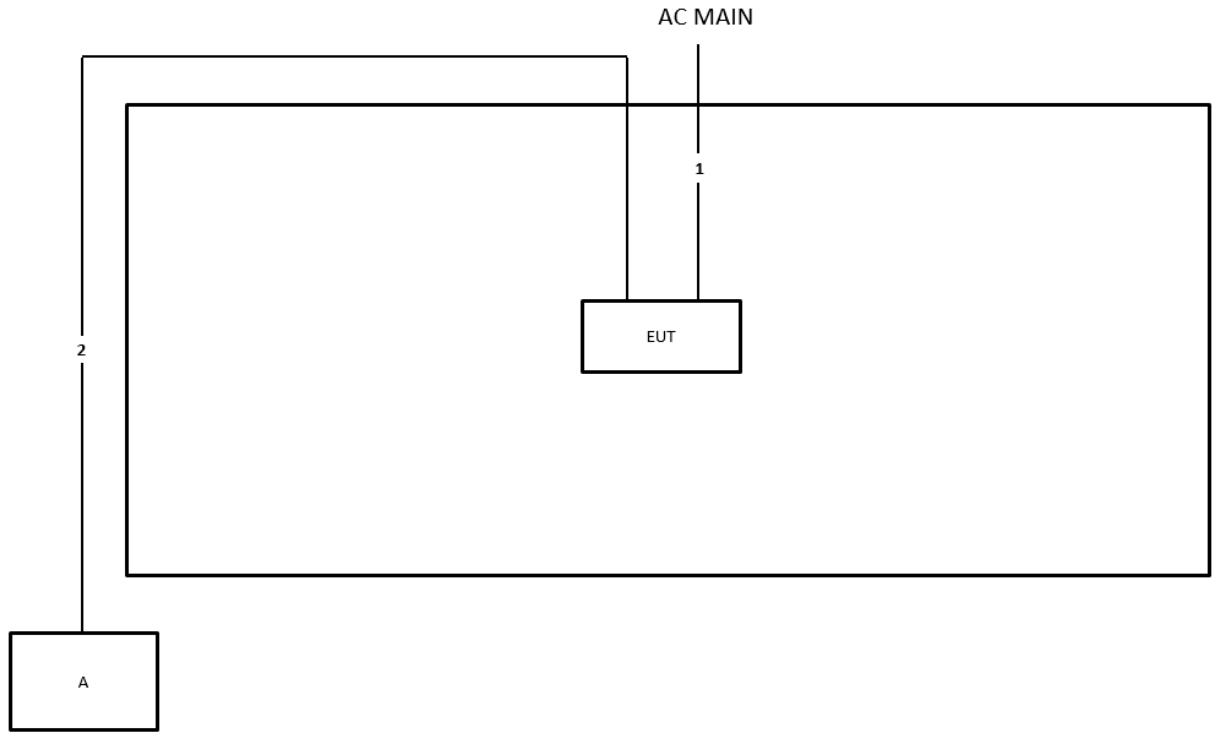
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	10m
5	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



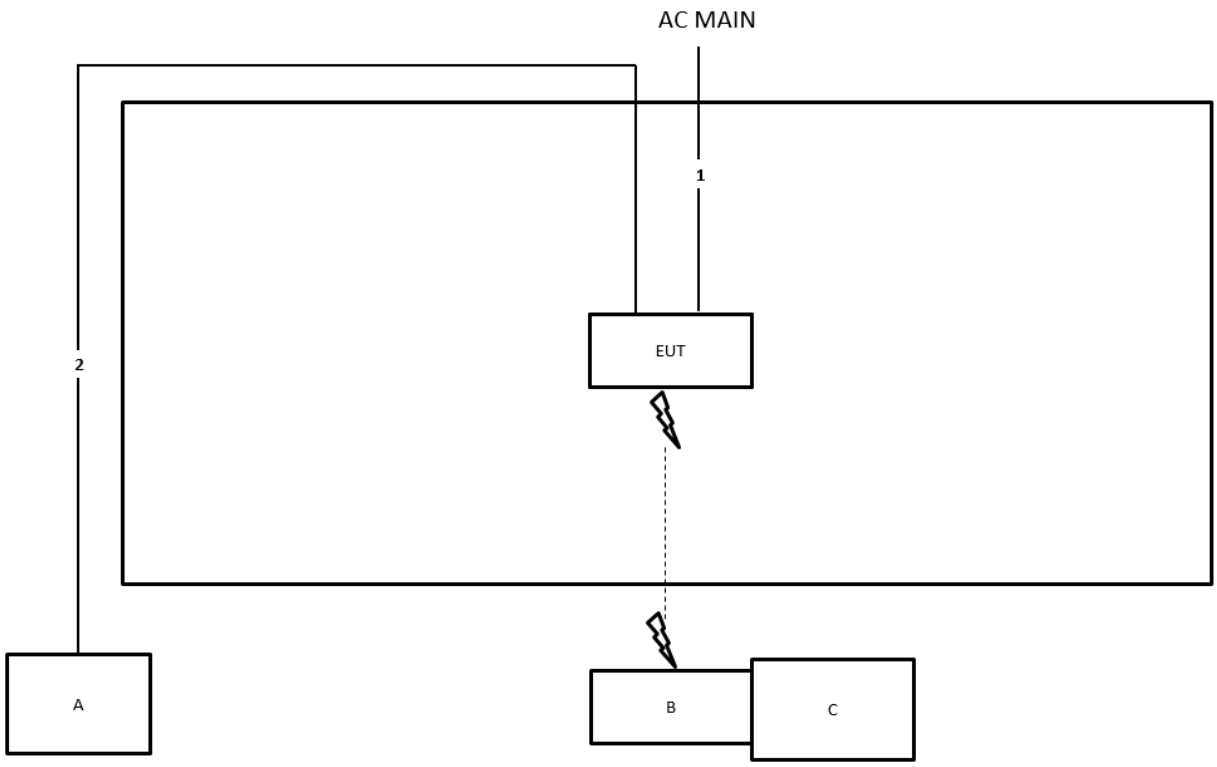
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.5m
5	RJ-45 cable	No	10m

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



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

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



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

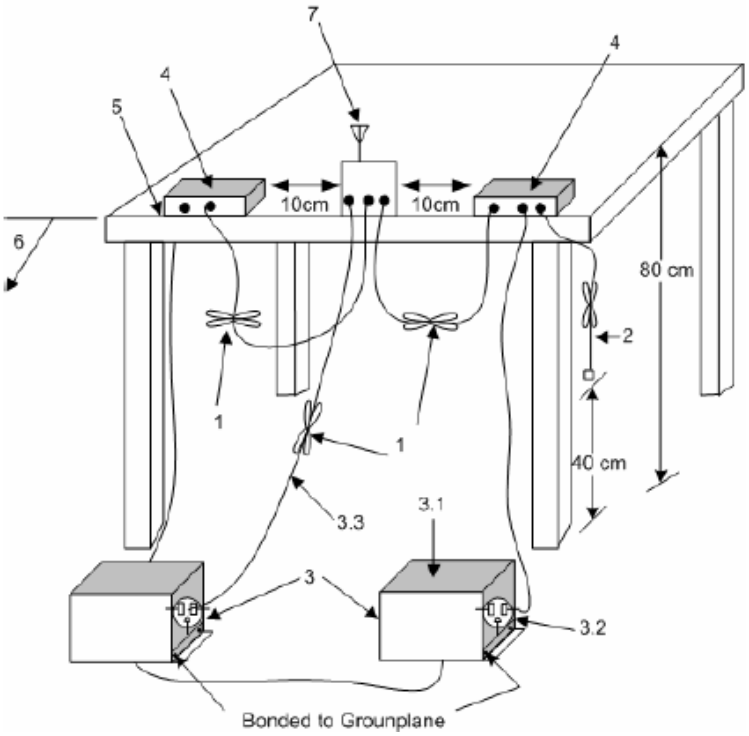
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

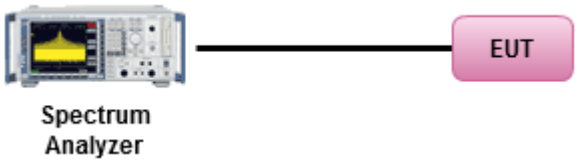
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

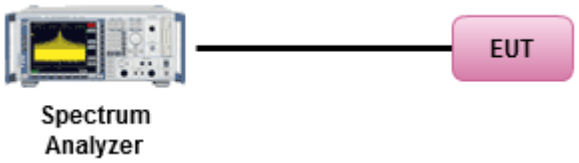
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dBc)**
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.5.2 Measuring Instruments

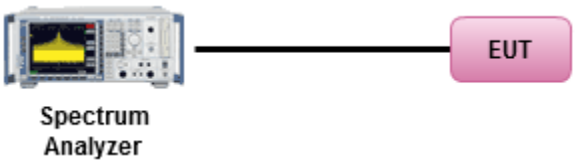
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

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

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

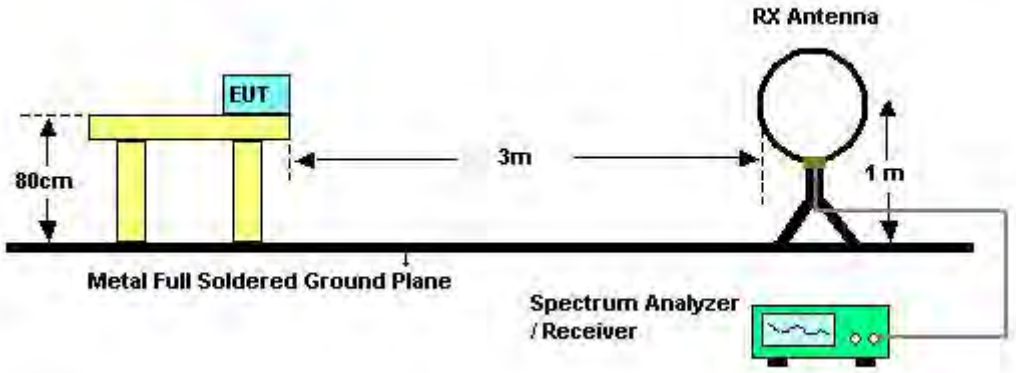
3.6.3 Test Procedures

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

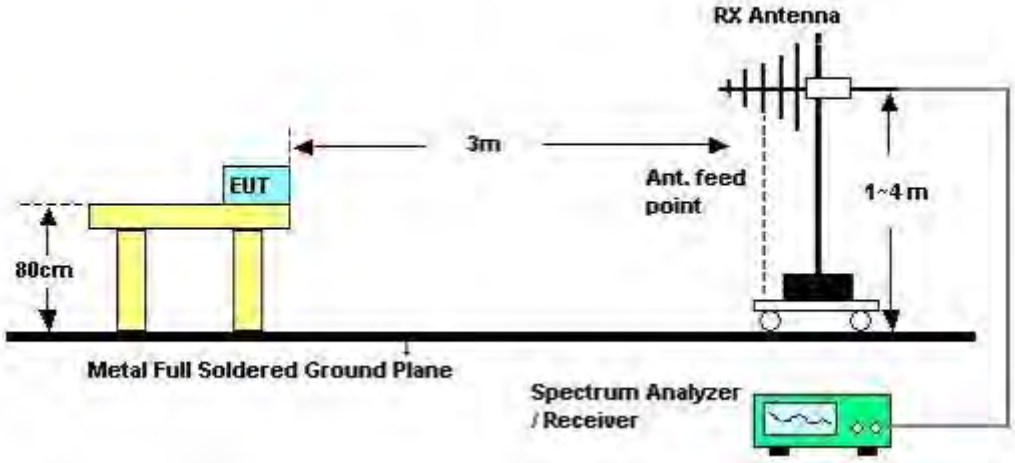
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

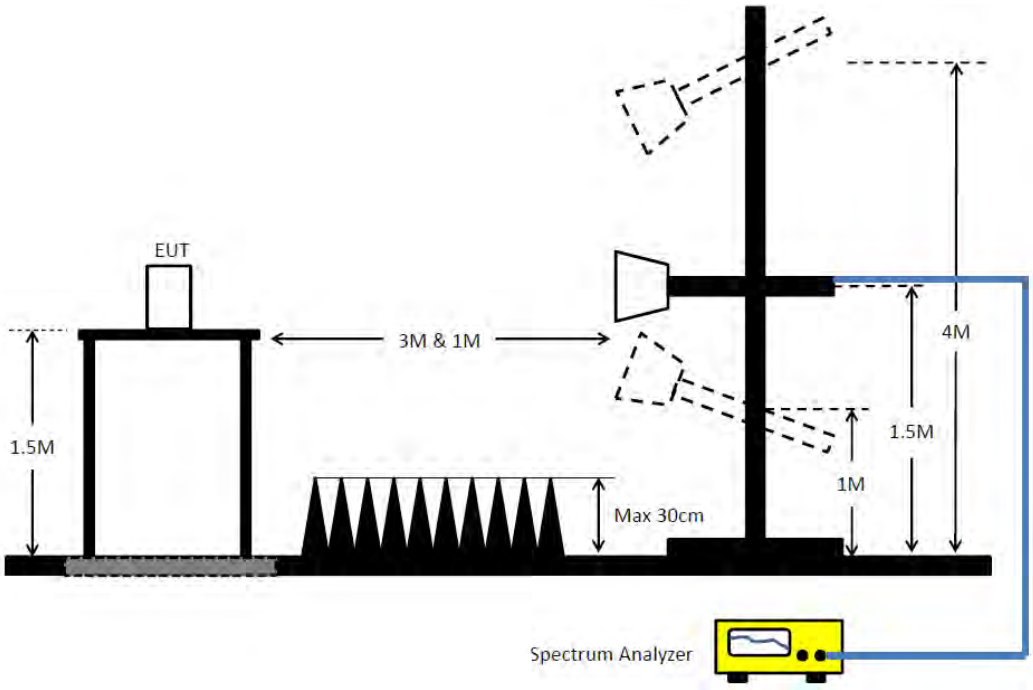
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 19, 2021	Oct. 18, 2022	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2022	Mar. 17, 2023	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 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)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
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)
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	Mar. 26, 2022	Mar. 25, 2023	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. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 20, 2022	Jul. 19, 2023	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)
RF Cable-high	Woken	RG402	High Cable-18+19	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	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 22, 2021	Aug. 21, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	SWI-03-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

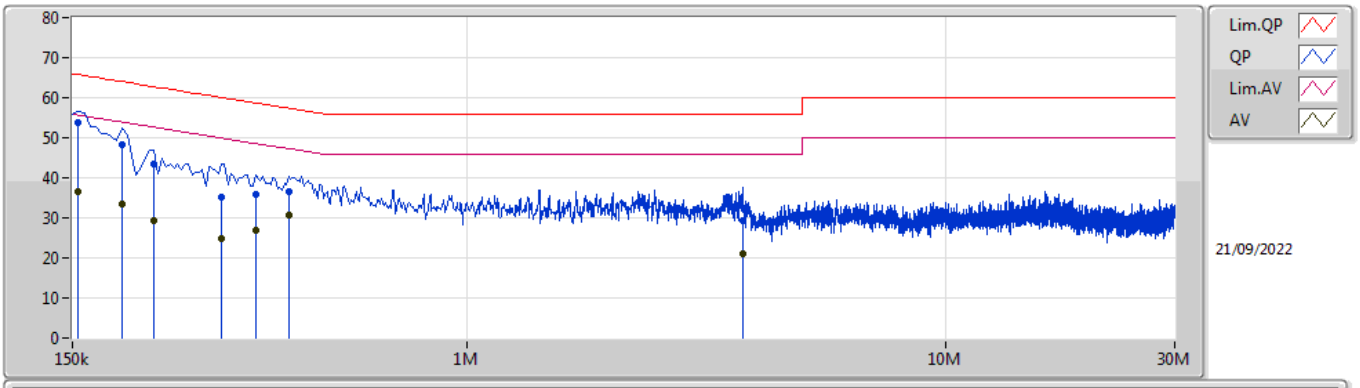
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

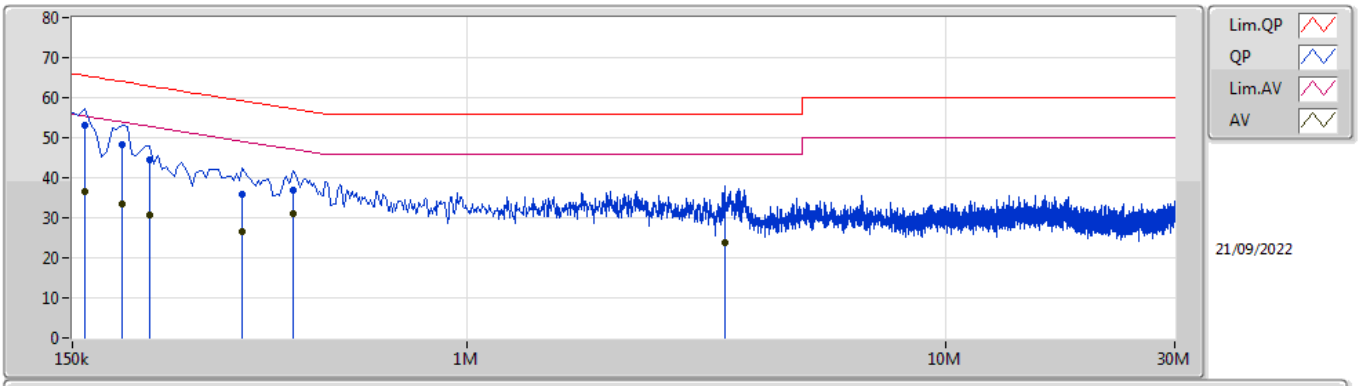
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.5k	53.91	65.75	-11.84	Line

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT			
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)			
QP	154.5k	53.91	65.75	-11.84	10.24	Line	"Worst"	43.67	0.12	0.02	10.10			
AV	154.5k	36.52	55.75	-19.23	10.24	Line	-	26.28	0.12	0.02	10.10			
QP	190.5k	48.39	64.01	-15.62	10.21	Line	-	38.18	0.12	0.02	10.07			
AV	190.5k	33.49	54.01	-20.52	10.21	Line	-	23.28	0.12	0.02	10.07			
QP	222k	43.44	62.75	-19.31	10.21	Line	-	33.23	0.12	0.02	10.07			
AV	222k	29.37	52.75	-23.38	10.21	Line	-	19.16	0.12	0.02	10.07			
QP	307.5k	35.19	60.03	-24.84	10.23	Line	-	24.96	0.12	0.02	10.09			
AV	307.5k	24.72	50.03	-25.31	10.23	Line	-	14.49	0.12	0.02	10.09			
QP	361.5k	35.73	58.70	-22.97	10.24	Line	-	25.49	0.12	0.02	10.10			
AV	361.5k	26.73	48.70	-21.97	10.24	Line	-	16.49	0.12	0.02	10.10			
QP	424.5k	36.47	57.36	-20.89	10.25	Line	-	26.22	0.12	0.02	10.11			
AV	424.5k	30.54	47.36	-16.82	10.25	Line	-	20.29	0.12	0.02	10.11			
QP	3.773M	29.35	56.00	-26.65	10.49	Line	-	18.86	0.23	0.07	10.19			
AV	3.773M	20.92	46.00	-25.08	10.49	Line	-	10.43	0.23	0.07	10.19			

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	52.98	65.52	-12.54	10.28	Neutral	"Worst"	42.70	0.16	0.02	10.10
AV	159k	36.46	55.52	-19.06	10.28	Neutral	-	26.18	0.16	0.02	10.10
QP	190.5k	48.43	64.01	-15.58	10.25	Neutral	-	38.18	0.16	0.02	10.07
AV	190.5k	33.47	54.01	-20.54	10.25	Neutral	-	23.22	0.16	0.02	10.07
QP	217.5k	44.65	62.92	-18.27	10.25	Neutral	-	34.40	0.16	0.02	10.07
AV	217.5k	30.60	52.92	-22.32	10.25	Neutral	-	20.35	0.16	0.02	10.07
QP	339k	35.71	59.23	-23.52	10.28	Neutral	-	25.43	0.16	0.02	10.10
AV	339k	26.39	49.23	-22.84	10.28	Neutral	-	16.11	0.16	0.02	10.10
QP	433.5k	36.87	57.19	-20.32	10.29	Neutral	-	26.58	0.16	0.02	10.11
AV	433.5k	30.93	47.19	-16.26	10.29	Neutral	-	20.64	0.16	0.02	10.11
QP	3.458M	32.29	56.00	-23.71	10.46	Neutral	-	21.83	0.21	0.07	10.18
AV	3.458M	23.87	46.00	-22.13	10.46	Neutral	-	13.41	0.21	0.07	10.18

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.525M	17.016M	17M0G1D	7M	12.119M
802.11g_Nss1,(6Mbps)_2TX	16.35M	25.287M	25M3D1D	16.275M	16.767M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.975M	24.413M	24M4D1D	18.725M	18.991M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.4M	37.781M	37M8D1D	36.25M	37.681M

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

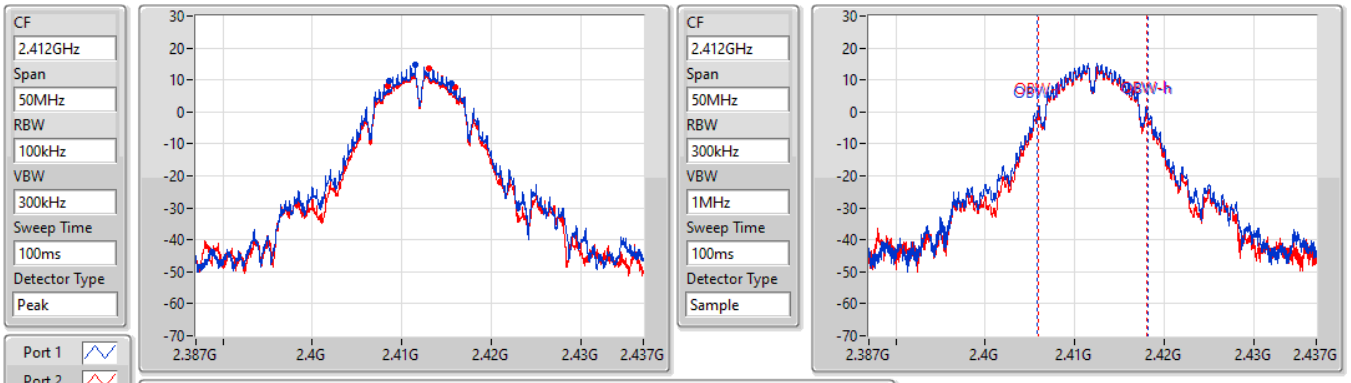
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	7M	12.344M	7.55M	12.119M
2437MHz	Pass	500k	9.525M	17.016M	9M	15.742M
2462MHz	Pass	500k	7.55M	12.944M	8M	12.444M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.817M	16.3M	16.817M
2437MHz	Pass	500k	16.3M	25.287M	16.275M	22.789M
2462MHz	Pass	500k	16.35M	16.767M	16.35M	16.817M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	19.04M	18.925M	19.065M
2437MHz	Pass	500k	18.825M	24.413M	18.725M	23.588M
2462MHz	Pass	500k	18.95M	18.991M	18.9M	19.04M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.4M	37.681M	36.55M	37.731M
2437MHz	Pass	500k	37.05M	37.781M	36.25M	37.781M
2452MHz	Pass	500k	37.1M	37.681M	36.8M	37.681M

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

802.11b_Nss1,(1Mbps)_2TX EBW

2412MHz

29/08/2022

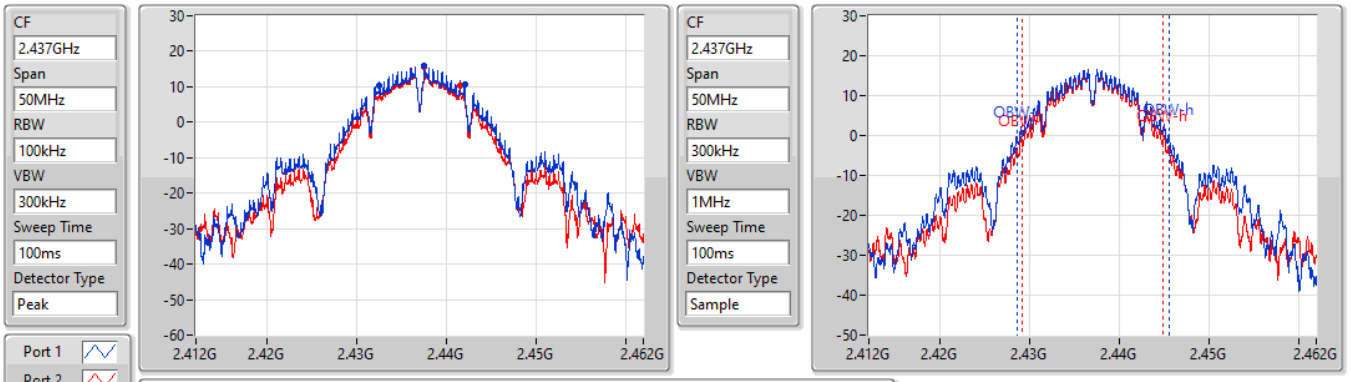


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7M	2.408525G	2.415525G	12.344M	2.405803G	2.418147G	500k	1
7.55M	2.408475G	2.416025G	12.119M	2.405928G	2.418047G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

29/08/2022

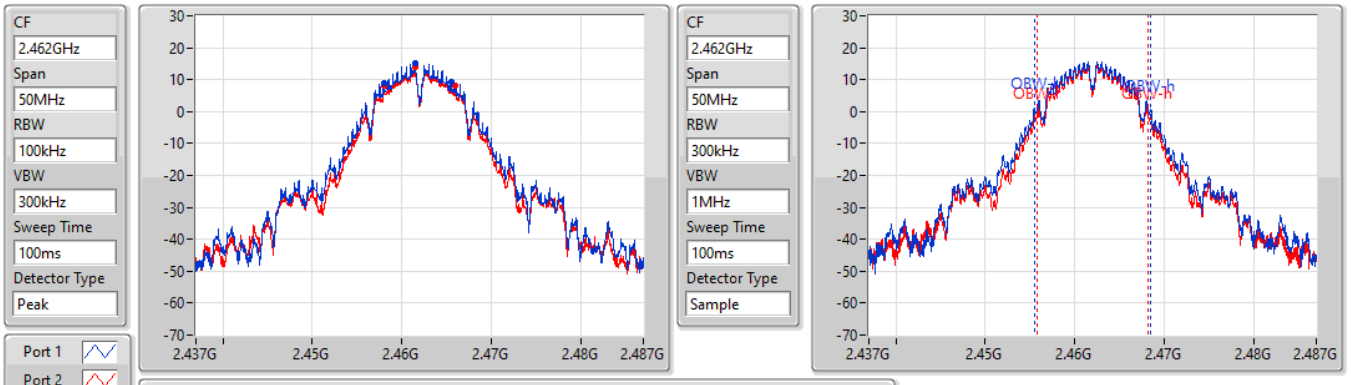


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.525M	2.4325G	2.442025G	17.016M	2.428504G	2.445521G	500k	1
9M	2.432525G	2.441525G	15.742M	2.429179G	2.444921G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

29/08/2022

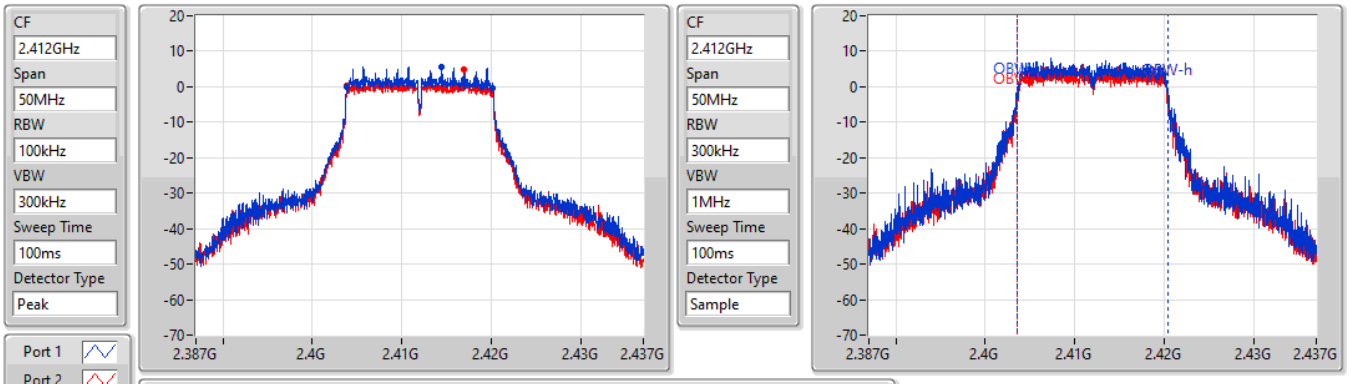


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.458G	2.46555G	12.944M	2.455528G	2.468472G	500k	1
8M	2.458025G	2.466025G	12.444M	2.455778G	2.468222G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

29/08/2022

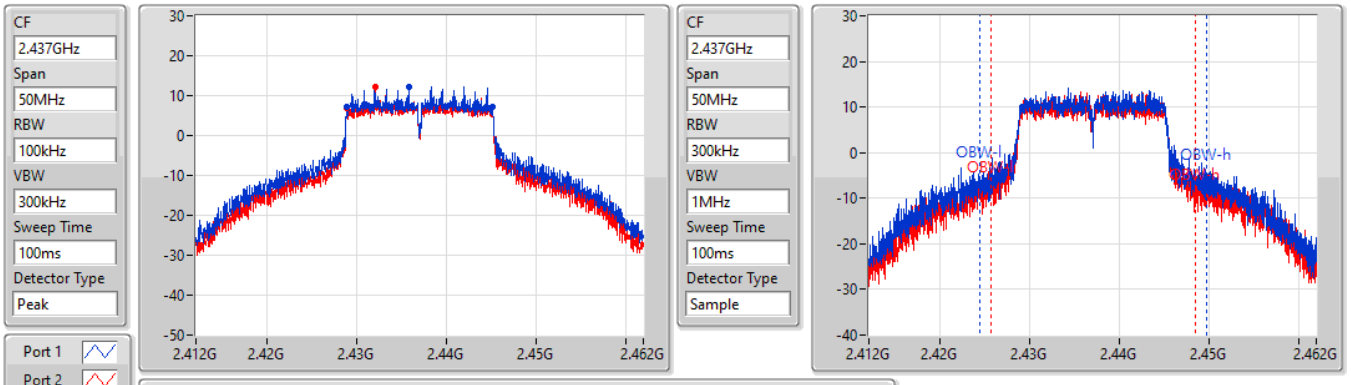


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	2.40385G	2.4202G	16.817M	2.403579G	2.420396G	500k	1
16.3M	2.403875G	2.420175G	16.817M	2.403579G	2.420396G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2437MHz

29/08/2022

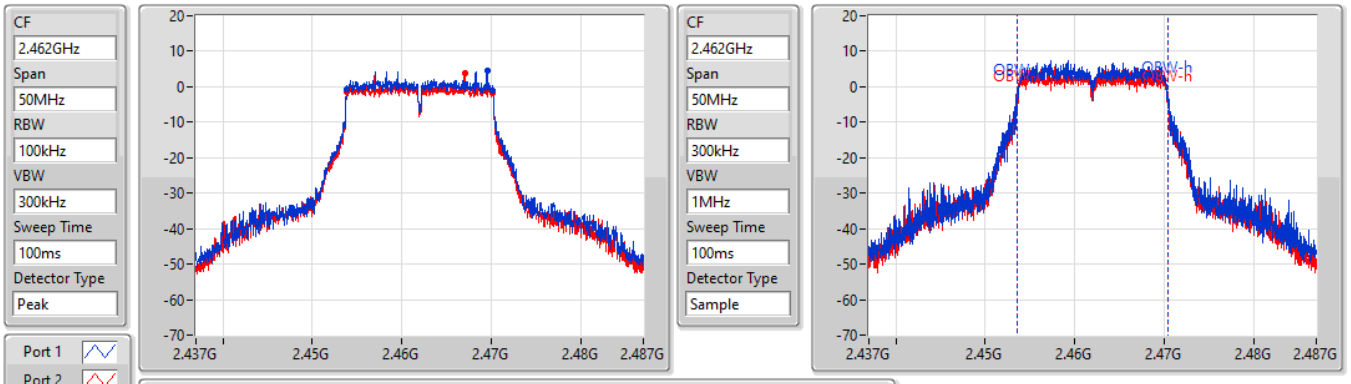


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.428875G	2.445175G	25.287M	2.424431G	2.449719G	500k	1
16.275M	2.428875G	2.44515G	22.789M	2.425706G	2.448494G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

29/08/2022

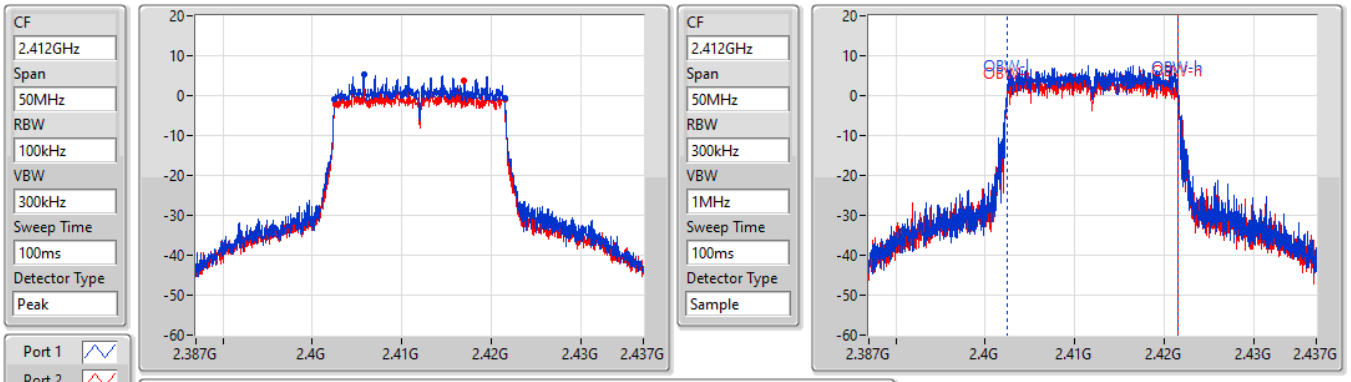


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	2.45385G	2.4702G	16.767M	2.453604G	2.470371G	500k	1
16.35M	2.45385G	2.4702G	16.817M	2.453579G	2.470396G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2412MHz

29/08/2022

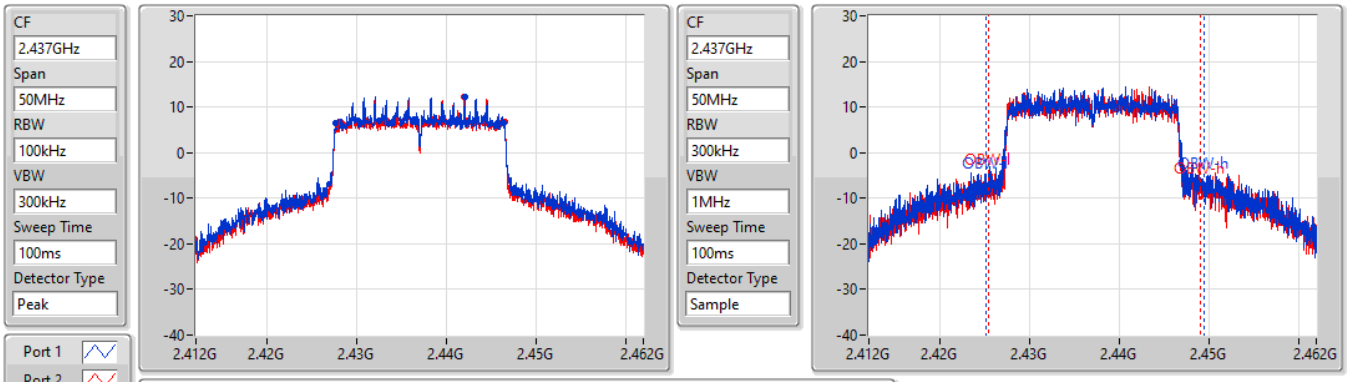


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.975M	2.402525G	2.4215G	19.04M	2.40248G	2.42152G	500k	1
18.925M	2.40255G	2.421475G	19.065M	2.40248G	2.421545G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2437MHz

29/08/2022

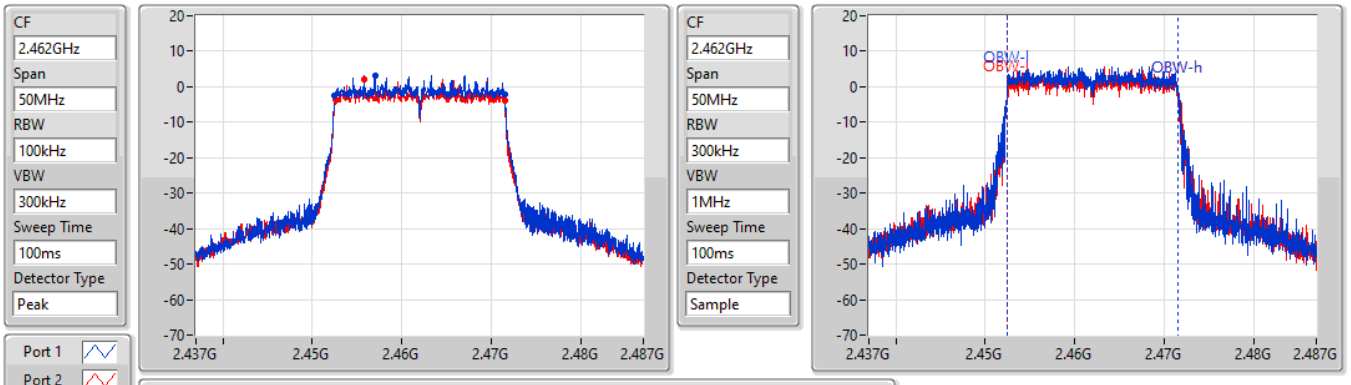


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.825M	2.4276G	2.446425G	24.413M	2.425031G	2.449444G	500k	1
18.725M	2.42775G	2.446475G	23.588M	2.425406G	2.448994G	500k	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX EBW

2462MHz

29/08/2022

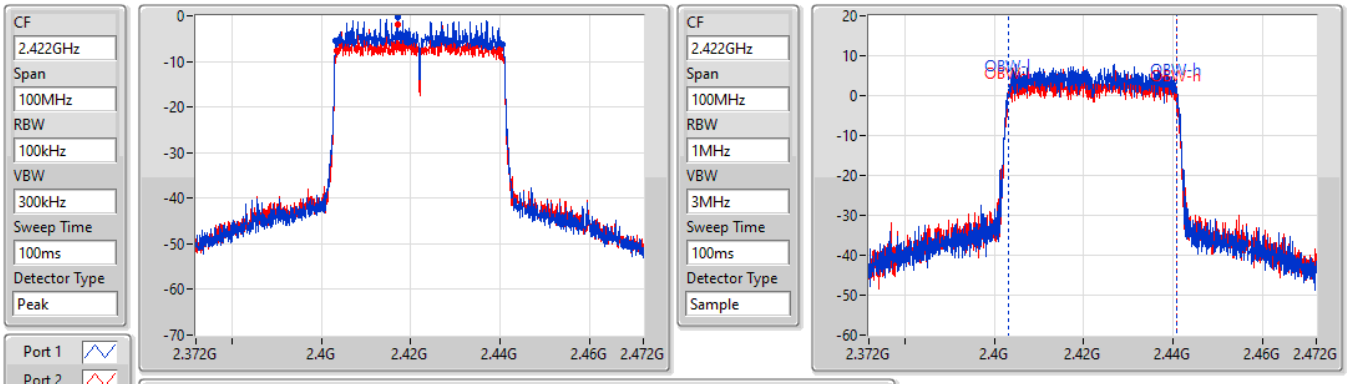


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.95M	2.452525G	2.471475G	18.991M	2.452505G	2.471495G	500k	1
18.9M	2.452625G	2.471525G	19.04M	2.452505G	2.471545G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2422MHz

29/08/2022

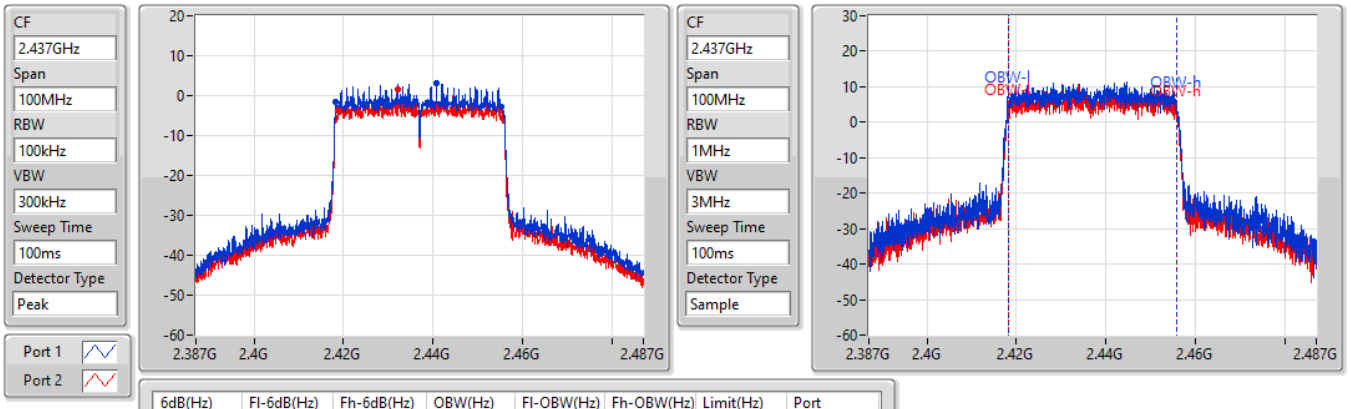


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.4M	2.4032G	2.4406G	37.681M	2.403109G	2.440791G	500k	1
36.55M	2.4035G	2.44005G	37.731M	2.403109G	2.440841G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2437MHz

29/08/2022

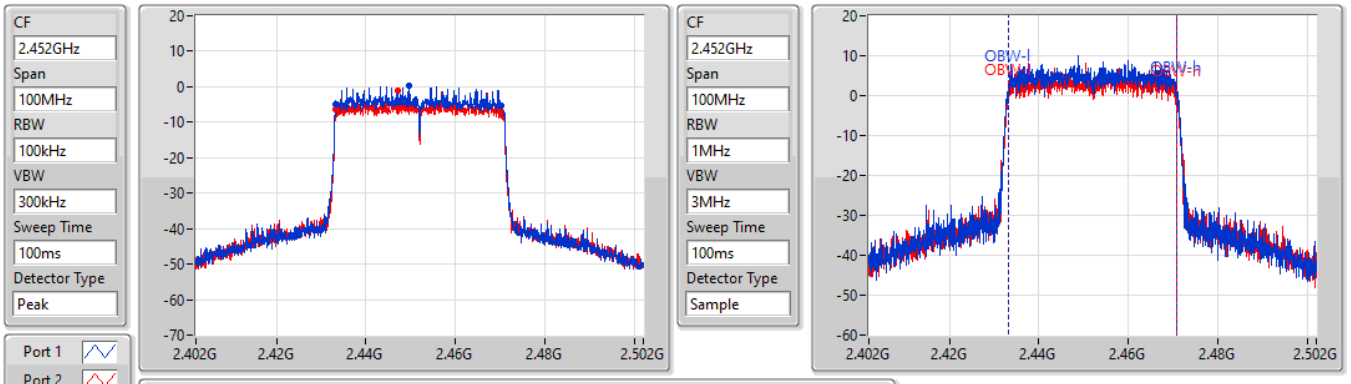


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.05M	2.41825G	2.4553G	37.781M	2.418059G	2.455841G	500k	1
36.25M	2.41875G	2.455G	37.781M	2.418109G	2.455891G	500k	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX EBW

2452MHz

29/08/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.1M	2.4332G	2.4703G	37.681M	2.433159G	2.470841G	500k	1
36.8M	2.43325G	2.47005G	37.681M	2.433109G	2.470791G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.45	0.55590
802.11g_Nss1,(6Mbps)_2TX	25.97	0.39537
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	25.95	0.39355
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.46	0.08831

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.42	22.61	21.81	25.24	30.00
2437MHz	Pass	4.42	24.89	23.94	27.45	30.00
2462MHz	Pass	4.42	23.23	22.16	25.74	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.42	17.22	15.85	19.60	30.00
2417MHz	Pass	4.42	19.89	19.12	22.53	30.00
2437MHz	Pass	4.42	23.34	22.55	25.97	30.00
2457MHz	Pass	4.42	19.36	18.73	22.07	30.00
2462MHz	Pass	4.42	16.32	15.40	18.89	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	16.66	15.15	18.98	30.00
2417MHz	Pass	4.52	18.08	17.00	20.58	30.00
2437MHz	Pass	4.52	23.07	22.81	25.95	30.00
2457MHz	Pass	4.52	19.37	18.45	21.94	30.00
2462MHz	Pass	4.52	14.88	13.82	17.39	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.52	14.16	12.38	16.37	30.00
2427MHz	Pass	4.52	15.06	13.47	17.35	30.00
2437MHz	Pass	4.52	17.21	15.53	19.46	30.00
2447MHz	Pass	4.52	15.59	13.88	17.83	30.00
2452MHz	Pass	4.52	14.85	13.28	17.15	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	1.99
802.11g_Nss1,(6Mbps)_2TX	-0.84
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-0.35
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-9.47

RBW = 3kHz;

Result

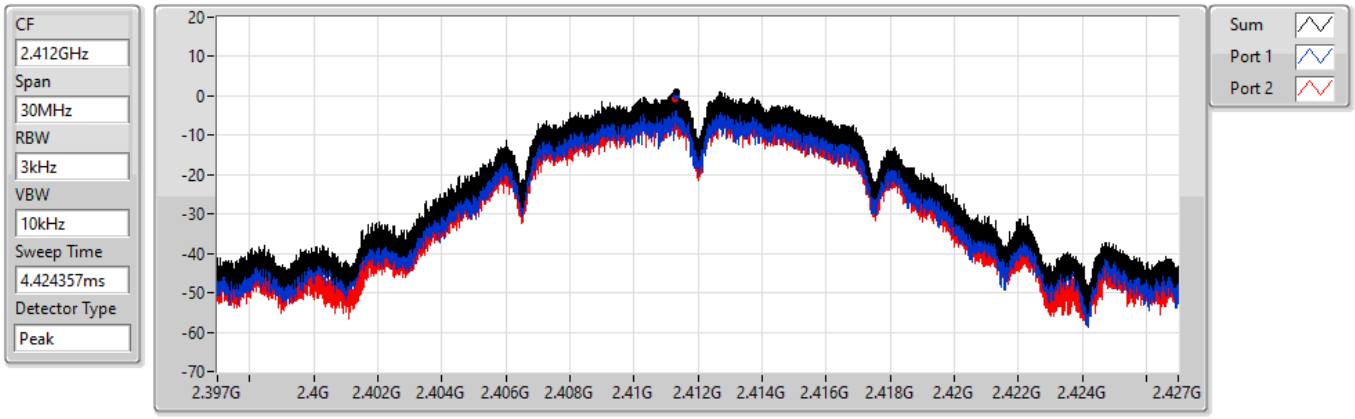
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	0.00	-0.69	1.17	8.00
2437MHz	Pass	4.52	0.65	-0.21	1.99	8.00
2462MHz	Pass	4.52	-0.12	-0.82	1.93	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	-8.74	-10.66	-6.82	8.00
2437MHz	Pass	4.52	-2.64	-2.78	-0.84	8.00
2462MHz	Pass	4.52	-9.73	-9.17	-7.31	8.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.52	-8.74	-9.25	-5.98	8.00
2437MHz	Pass	4.52	-3.57	-3.16	-0.35	8.00
2462MHz	Pass	4.52	-11.28	-10.88	-8.07	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.52	-15.00	-17.00	-12.88	8.00
2437MHz	Pass	4.52	-11.87	-13.18	-9.47	8.00
2452MHz	Pass	4.52	-14.38	-15.90	-12.06	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

29/08/2022

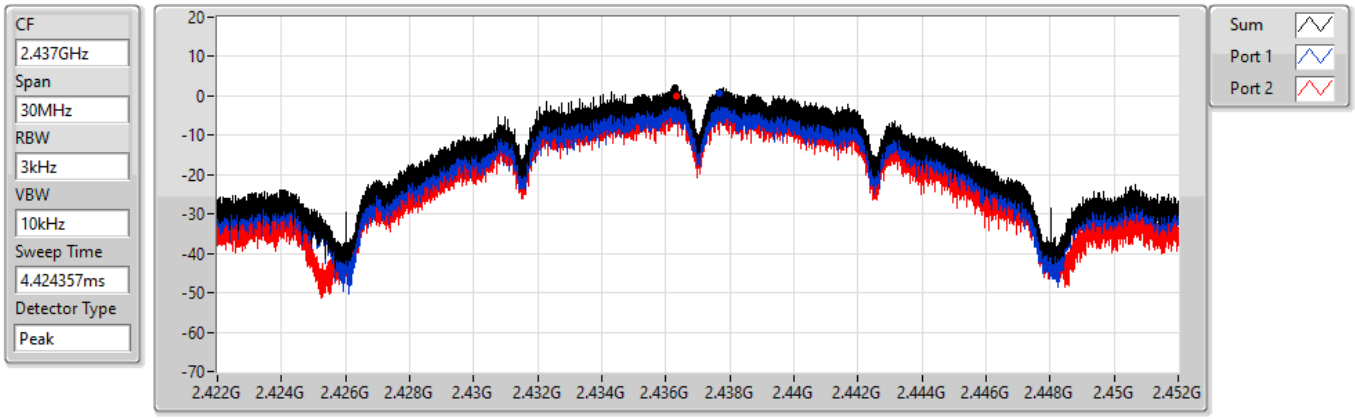


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.17	1.17	0.00	-0.69

802.11b_Nss1,(1Mbps)_2TX PSD

2437MHz

29/08/2022



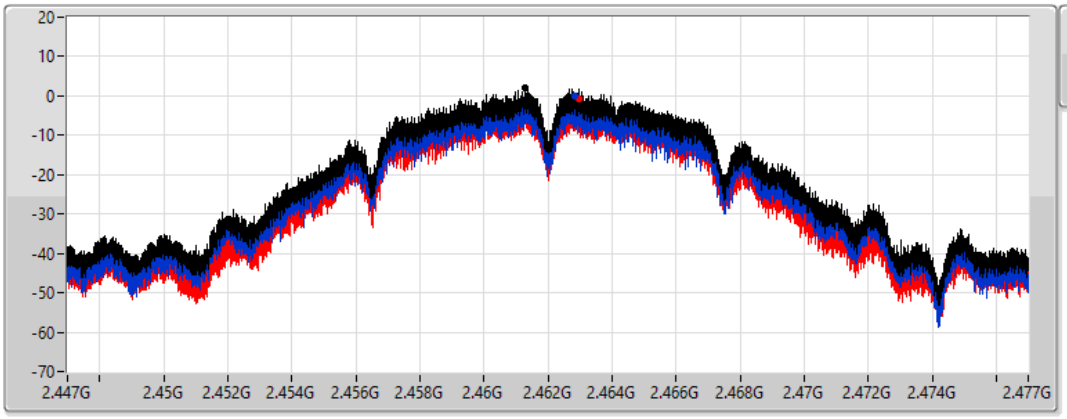
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.99	1.99	0.65	-0.21

802.11b_Nss1,(1Mbps)_2TX PSD

2462MHz

29/08/2022

CF	2.462GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	4.424357ms
Detector Type	Peak



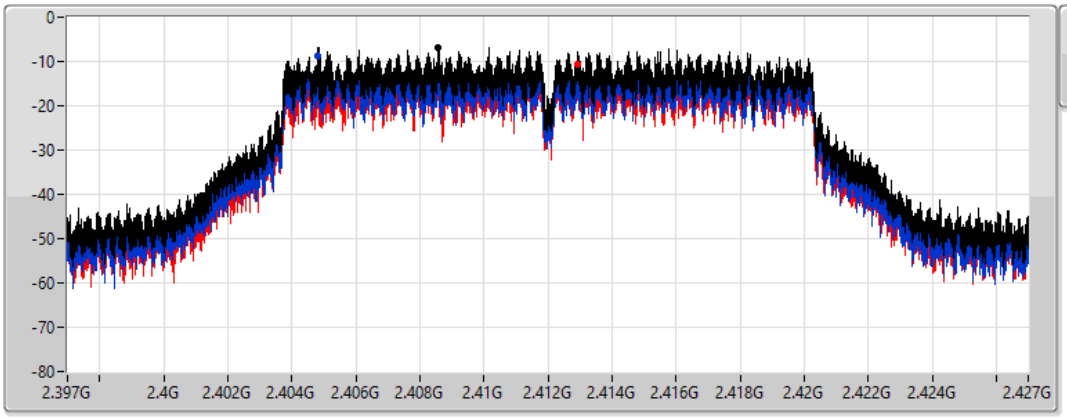
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.93	1.93	-0.12	-0.82

802.11g_Nss1,(6Mbps)_2TX PSD

2412MHz

29/08/2022

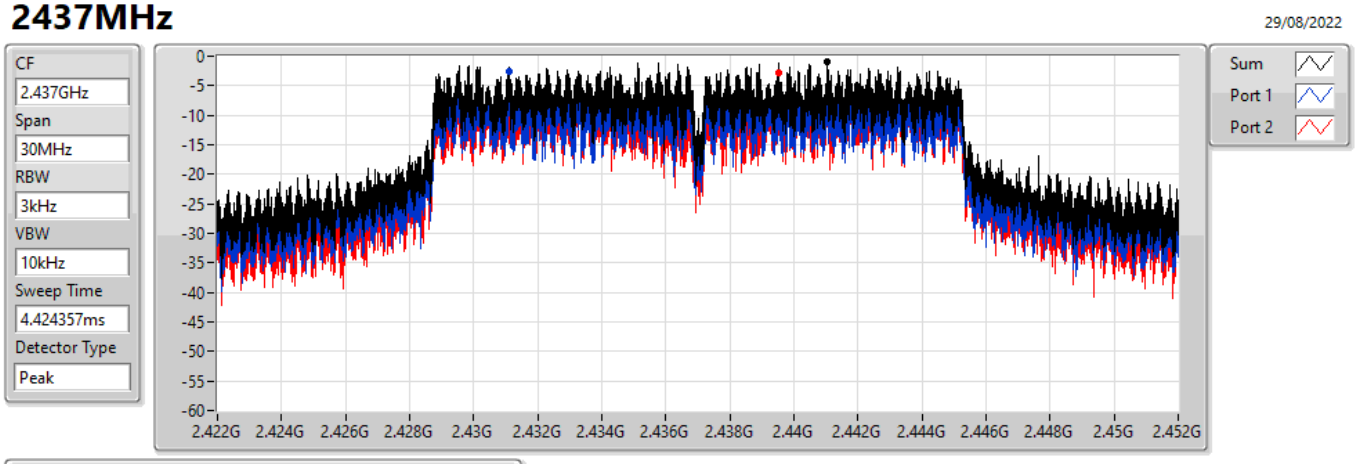
CF	2.412GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	4.424357ms
Detector Type	Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.82	-6.82	-8.74	-10.66

802.11g_Nss1,(6Mbps)_2TX PSD

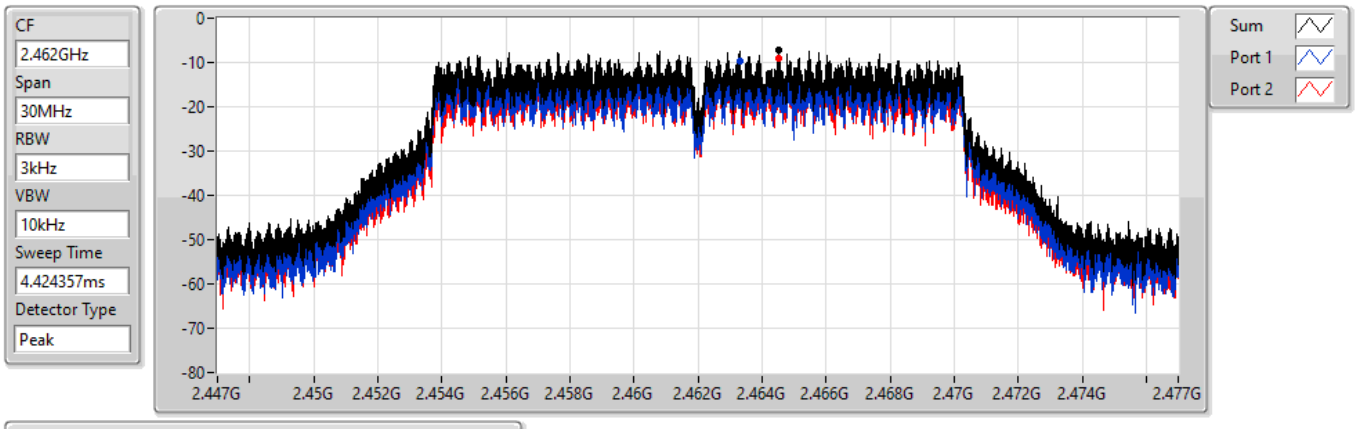
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.84	-0.84	-2.64	-2.78

802.11g_Nss1,(6Mbps)_2TX PSD

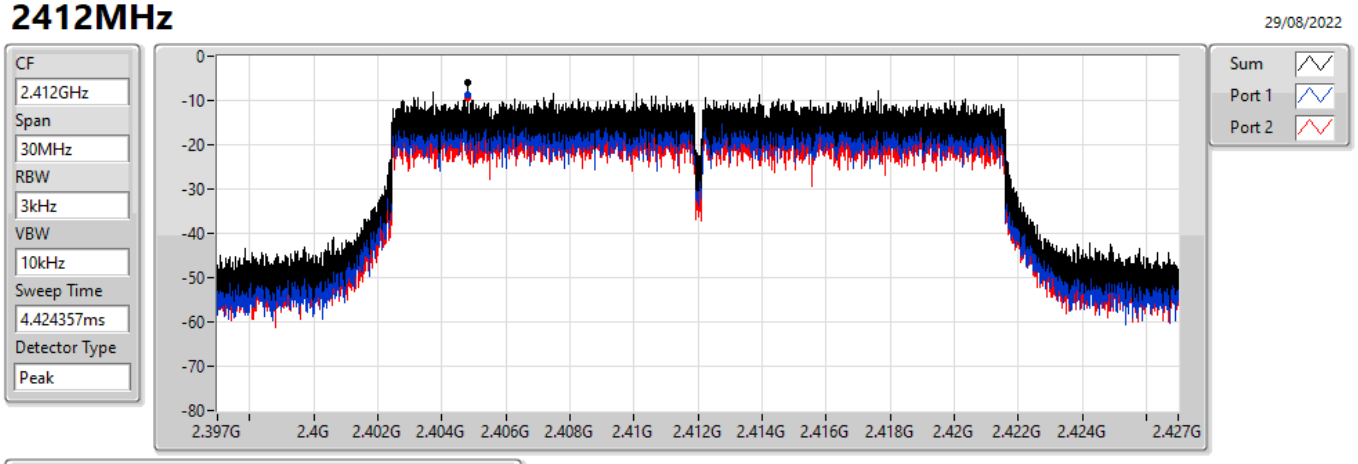
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.31	-7.31	-9.73	-9.17

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

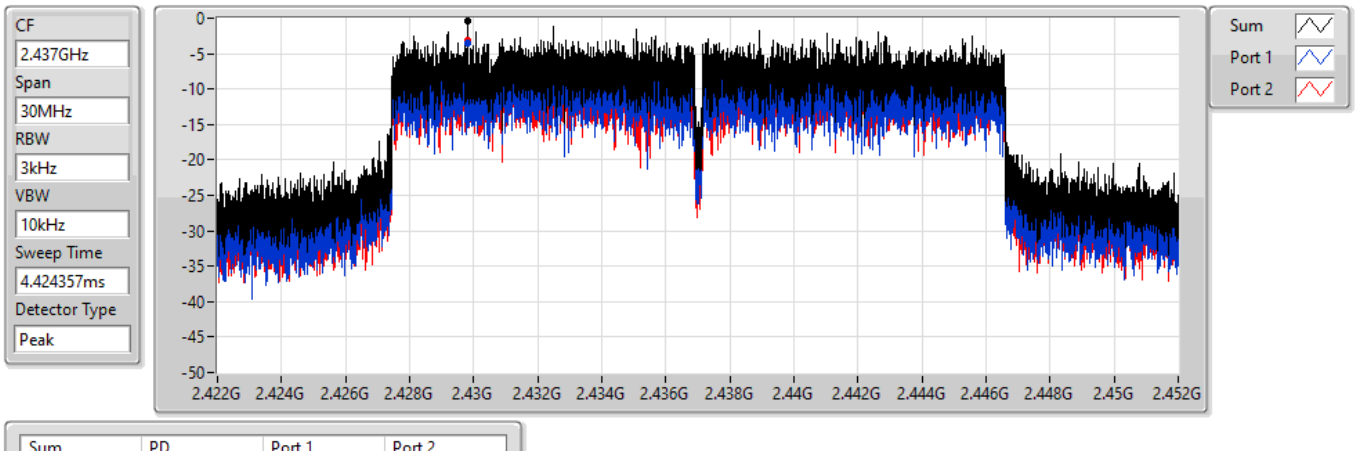
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.98	-5.98	-8.74	-9.25

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

2437MHz



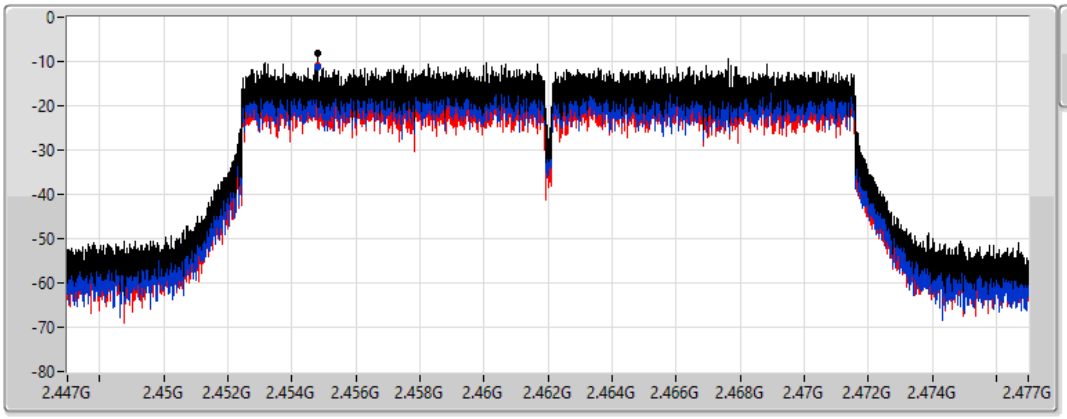
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.35	-0.35	-3.57	-3.16

802.11ax HEW20-BF_Nss1,(MCS0)_2TX PSD

2462MHz

29/08/2022

CF	2.462GHz
Span	30MHz
RBW	3kHz
VBW	10kHz
Sweep Time	4.424357ms
Detector Type	Peak



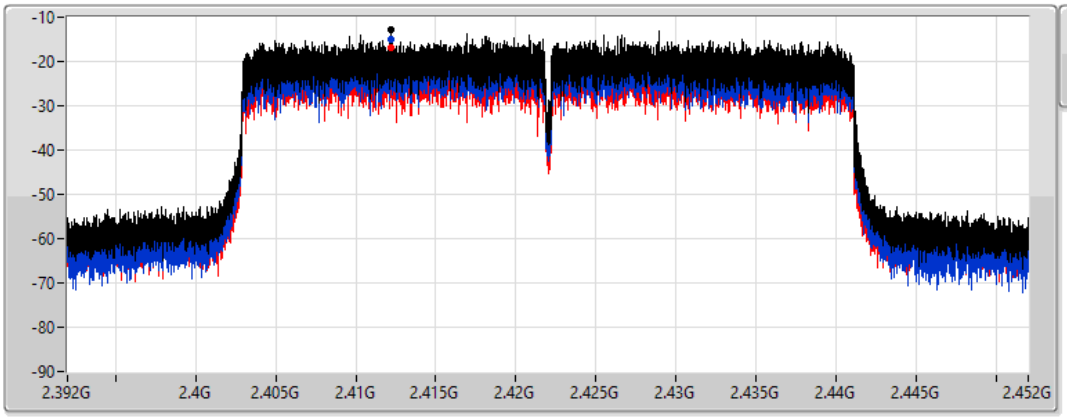
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.07	-8.07	-11.28	-10.88

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

2422MHz

29/08/2022

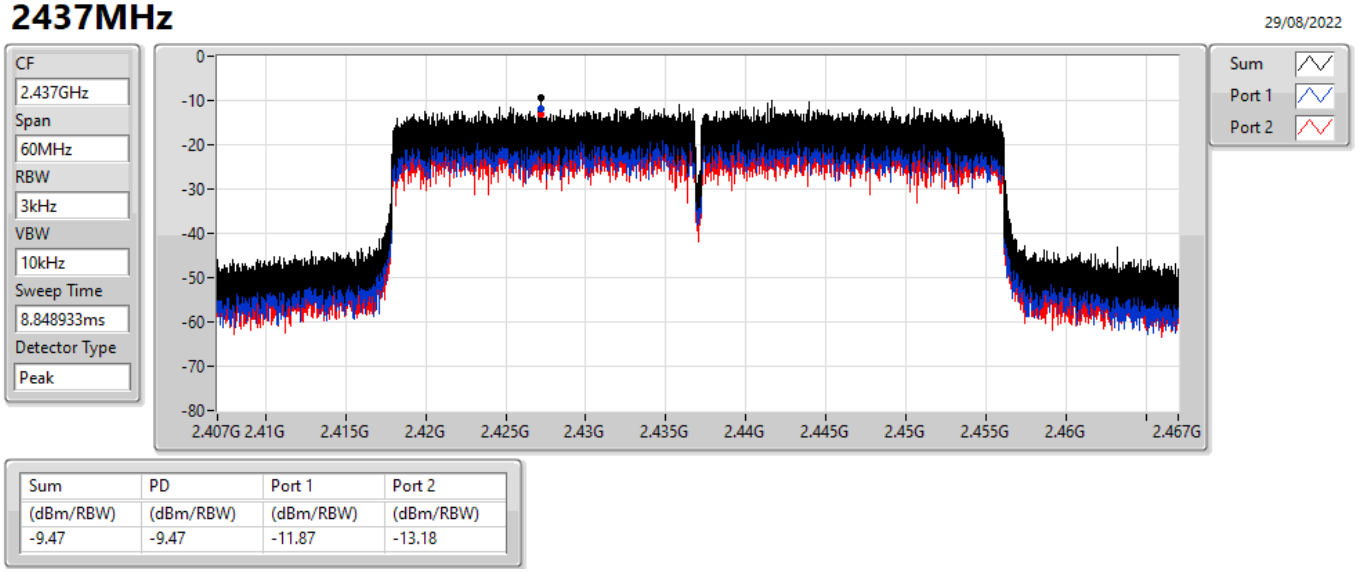
CF	2.422GHz
Span	60MHz
RBW	3kHz
VBW	10kHz
Sweep Time	8.848933ms
Detector Type	Peak



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.88	-12.88	-15.00	-17.00

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

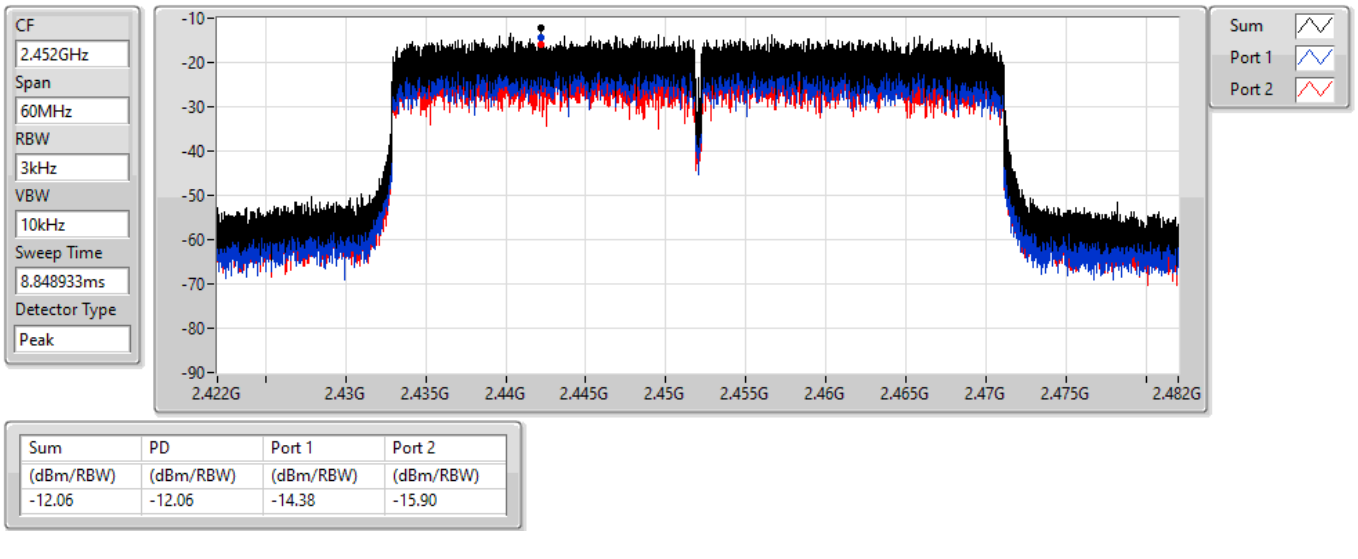
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.47	-9.47	-11.87	-13.18

802.11ax HEW40-BF_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.06	-12.06	-14.38	-15.90

Summary

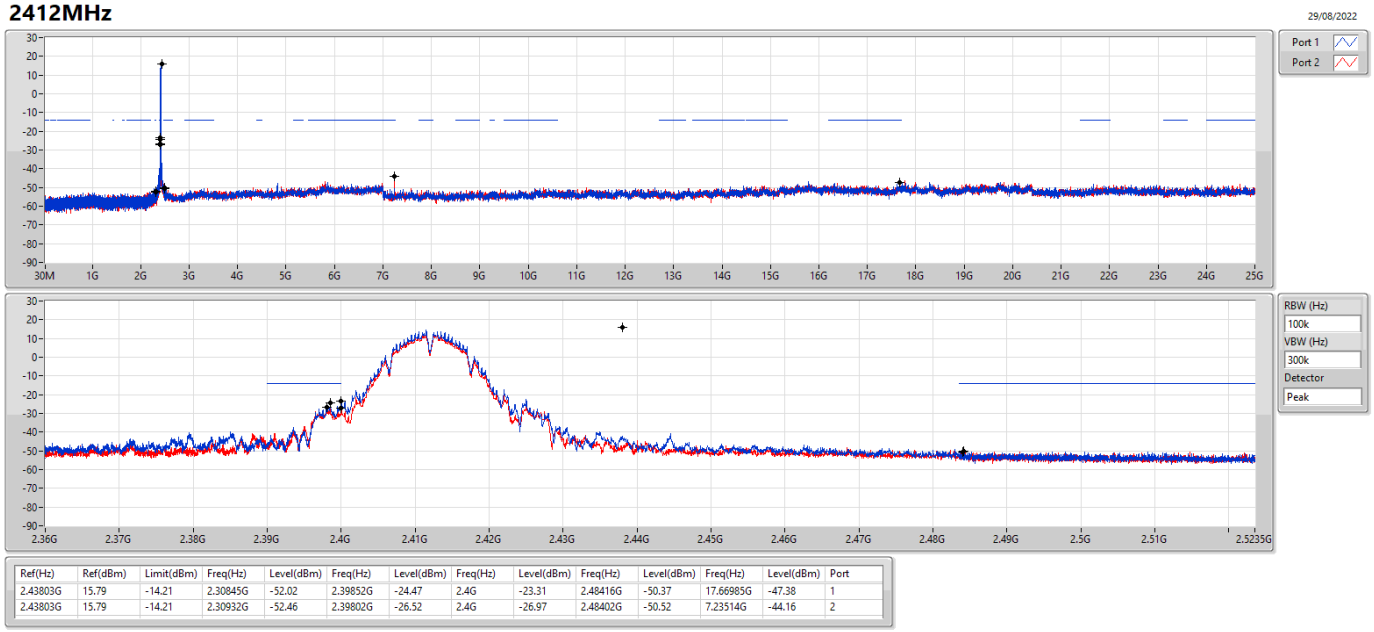
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43803G	15.79	-14.21	2.30845G	-52.02	2.39852G	-24.47	2.4G	-23.31	2.48416G	-50.37	17.66985G	-47.38	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43202G	12.20	-17.80	2.30117G	-52.00	2.39668G	-28.72	2.4G	-31.36	2.49246G	-50.42	17.65861G	-47.91	1
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43202G	12.47	-17.53	1.73876G	-52.87	2.39946G	-27.43	2.4G	-31.74	2.48622G	-51.24	17.69514G	-48.37	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.44075G	2.99	-27.01	2.30054G	-52.53	2.3998G	-31.62	2.4G	-35.25	2.48562G	-40.49	5.8196G	-47.67	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43803G	15.79	-14.21	2.30845G	-52.02	2.39852G	-24.47	2.4G	-23.31	2.48416G	-50.37	17.66985G	-47.38	1
2412MHz	Pass	2.43803G	15.79	-14.21	2.30932G	-52.46	2.39802G	-26.52	2.4G	-26.97	2.48402G	-50.52	7.23514G	-44.16	2
2437MHz	Pass	2.43803G	15.79	-14.21	2.30408G	-52.11	2.3995G	-28.12	2.4G	-34.11	2.48852G	-37.20	15.26487G	-47.68	1
2437MHz	Pass	2.43803G	15.79	-14.21	824.24M	-52.63	2.399G	-34.90	2.4G	-47.21	2.48848G	-44.49	5.88374G	-47.70	2
2462MHz	Pass	2.43803G	15.79	-14.21	1.88352G	-53.24	2.39418G	-47.18	2.4835G	-37.43	2.48352G	-37.61	6.83056G	-47.23	1
2462MHz	Pass	2.43803G	15.79	-14.21	2.3067G	-52.77	2.39266G	-48.73	2.4835G	-43.34	2.48754G	-43.06	5.84159G	-47.59	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	12.20	-17.80	2.30117G	-52.00	2.39668G	-28.72	2.4G	-31.36	2.49246G	-50.42	17.65861G	-47.91	1
2412MHz	Pass	2.43202G	12.20	-17.80	2.30088G	-52.36	2.39978G	-29.61	2.4G	-32.97	2.48642G	-50.77	16.43645G	-48.01	2
2437MHz	Pass	2.43202G	12.20	-17.80	2.3035G	-51.84	2.39888G	-31.77	2.4G	-34.08	2.48356G	-35.92	15.32668G	-47.00	1
2437MHz	Pass	2.43202G	12.20	-17.80	2.15816G	-51.37	2.39918G	-32.64	2.4G	-36.56	2.48386G	-36.75	6.74627G	-48.17	2
2462MHz	Pass	2.43202G	12.20	-17.80	893.27M	-52.98	2.391G	-50.57	2.4835G	-41.33	2.48356G	-37.72	16.31002G	-48.14	1
2462MHz	Pass	2.43202G	12.20	-17.80	607.84M	-52.65	2.39074G	-50.41	2.4835G	-42.77	2.48392G	-40.33	6.97104G	-46.27	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43202G	12.47	-17.53	1.73876G	-52.87	2.39946G	-27.43	2.4G	-31.74	2.48622G	-51.24	17.69514G	-48.37	1
2412MHz	Pass	2.43202G	12.47	-17.53	2.07516G	-52.87	2.39972G	-28.38	2.4G	-32.17	2.51672G	-49.55	5.9034G	-47.25	2
2437MHz	Pass	2.43202G	12.47	-17.53	2.30991G	-52.50	2.39986G	-31.96	2.4G	-34.35	2.48356G	-35.70	16.93937G	-48.03	1
2437MHz	Pass	2.43202G	12.47	-17.53	2.30816G	-52.67	2.39648G	-30.95	2.4G	-34.55	2.48368G	-36.25	16.43645G	-47.54	2
2462MHz	Pass	2.43202G	12.47	-17.53	2.19108G	-51.45	2.39392G	-50.33	2.4835G	-42.83	2.48512G	-41.54	5.78259G	-47.65	1
2462MHz	Pass	2.43202G	12.47	-17.53	2.13807G	-52.49	2.3941G	-51.28	2.4835G	-44.60	2.48384G	-44.18	24.74995G	-47.35	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	2.99	-27.01	1.7475G	-52.93	2.39688G	-39.48	2.4G	-42.91	2.48354G	-50.91	5.85045G	-47.76	1
2422MHz	Pass	2.44075G	2.99	-27.01	2.30512G	-52.99	2.39708G	-37.41	2.4G	-42.28	2.48582G	-50.84	17.68851G	-48.11	2
2437MHz	Pass	2.44075G	2.99	-27.01	2.30054G	-52.53	2.3998G	-31.62	2.4G	-35.25	2.48562G	-40.49	5.8196G	-47.67	1
2437MHz	Pass	2.44075G	2.99	-27.01	940.28M	-52.99	2.39956G	-33.26	2.4G	-36.16	2.48406G	-43.22	17.61278G	-46.82	2
2452MHz	Pass	2.44075G	2.99	-27.01	2.30454G	-52.33	2.39456G	-47.40	2.4835G	-43.70	2.48446G	-38.35	17.69972G	-47.81	1
2452MHz	Pass	2.44075G	2.99	-27.01	2.30655G	-51.14	2.39804G	-49.86	2.4835G	-43.47	2.4845G	-38.87	5.96543G	-47.47	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

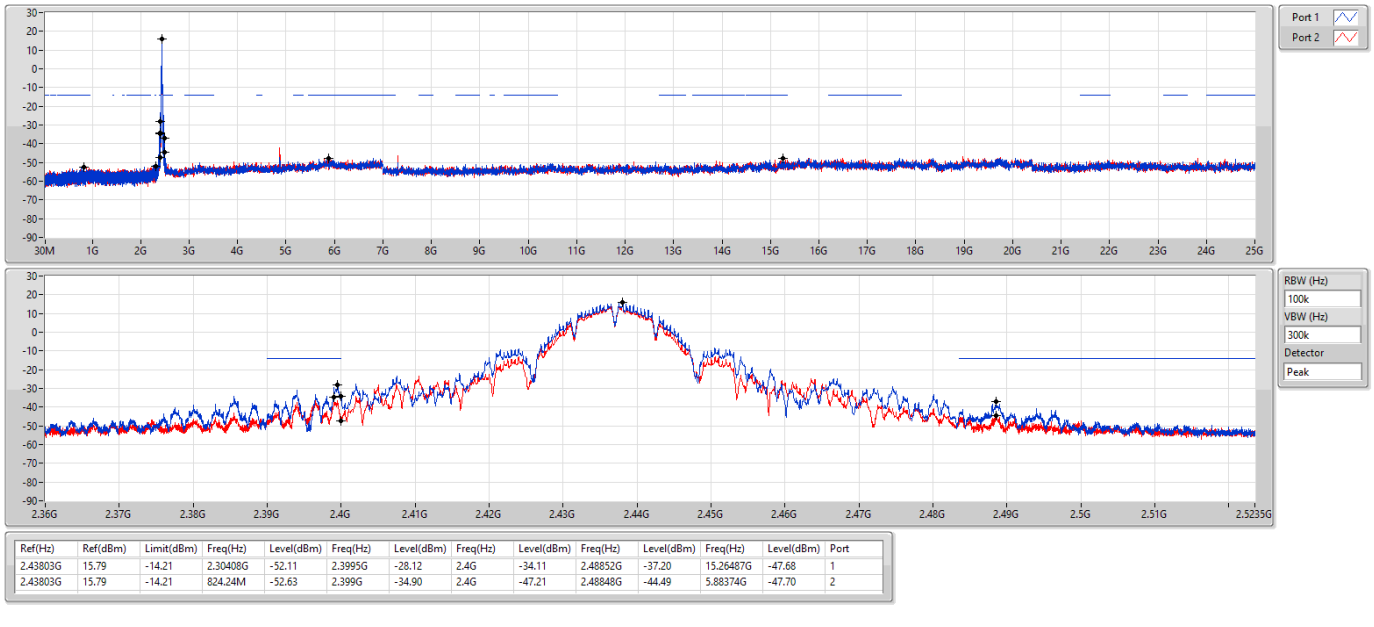
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43803G	15.79	-14.21	2.30845G	-52.02	2.39852G	-24.47	2.4G	-23.31	2.48416G	-50.37	17.66985G	-47.38	1
2.43803G	15.79	-14.21	2.30932G	-52.46	2.39802G	-26.52	2.4G	-26.97	2.48402G	-50.52	7.23514G	-44.16	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

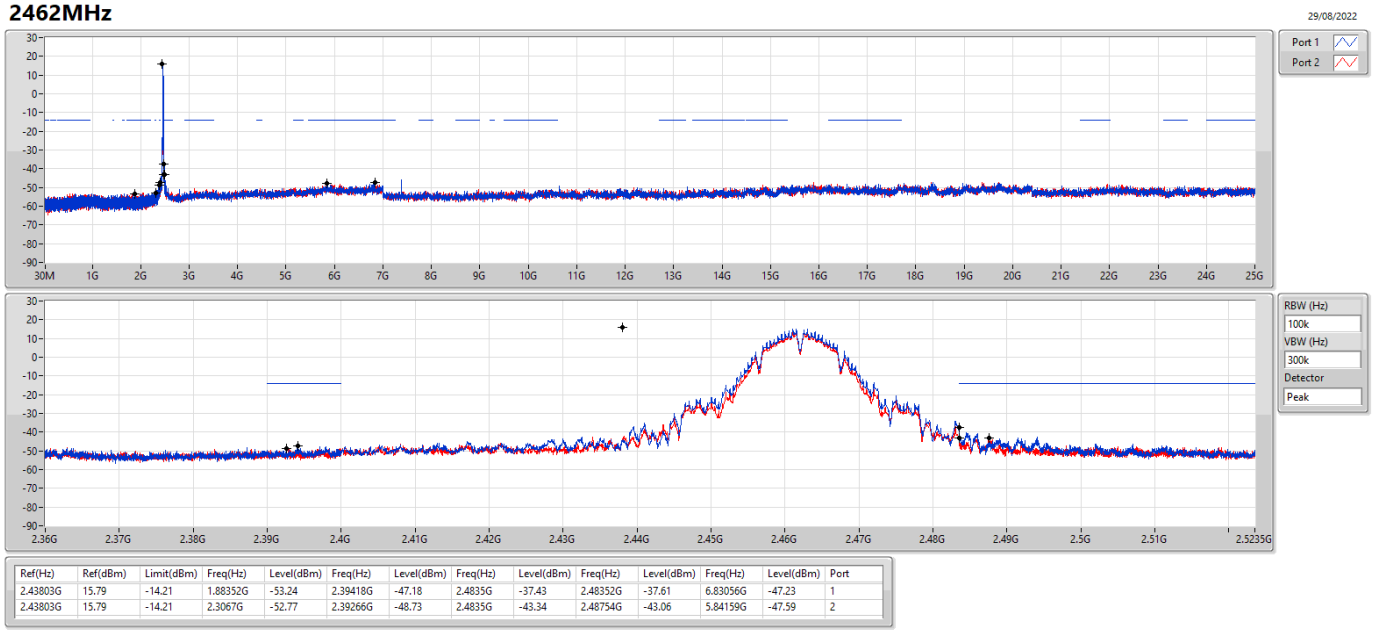
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43803G	15.79	-14.21	2.30408G	-52.11	2.3995G	-28.12	2.4G	-34.11	2.48852G	-37.20	15.26487G	-47.68	1
2.43803G	15.79	-14.21	824.24M	-52.63	2.399G	-34.90	2.4G	-47.21	2.48848G	-44.49	5.88374G	-47.70	2

802.11b_Nss1,(1Mbps)_2TX **CSENdB**

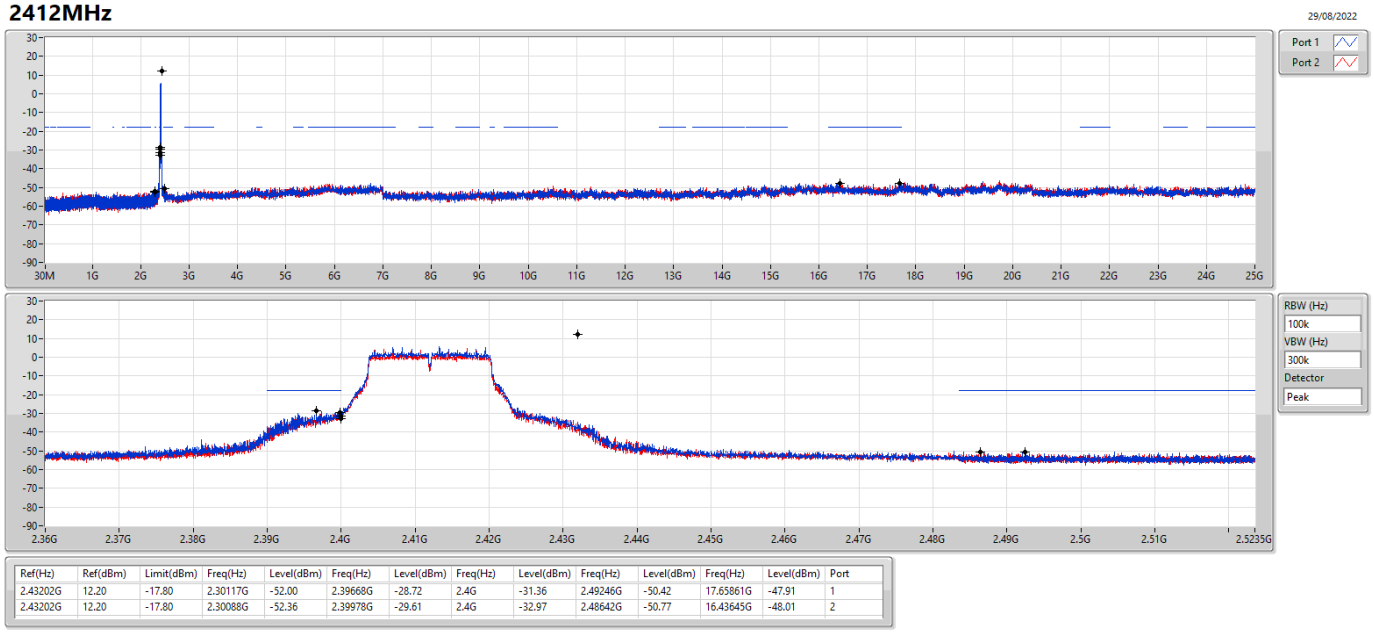
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43803G	15.79	-14.21	1.88352G	-53.24	2.39418G	-47.18	2.4835G	-37.43	2.48352G	-37.61	6.83056G	-47.23	1
2.43803G	15.79	-14.21	2.3067G	-52.77	2.39266G	-48.73	2.4835G	-43.34	2.48754G	-43.06	5.84159G	-47.59	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

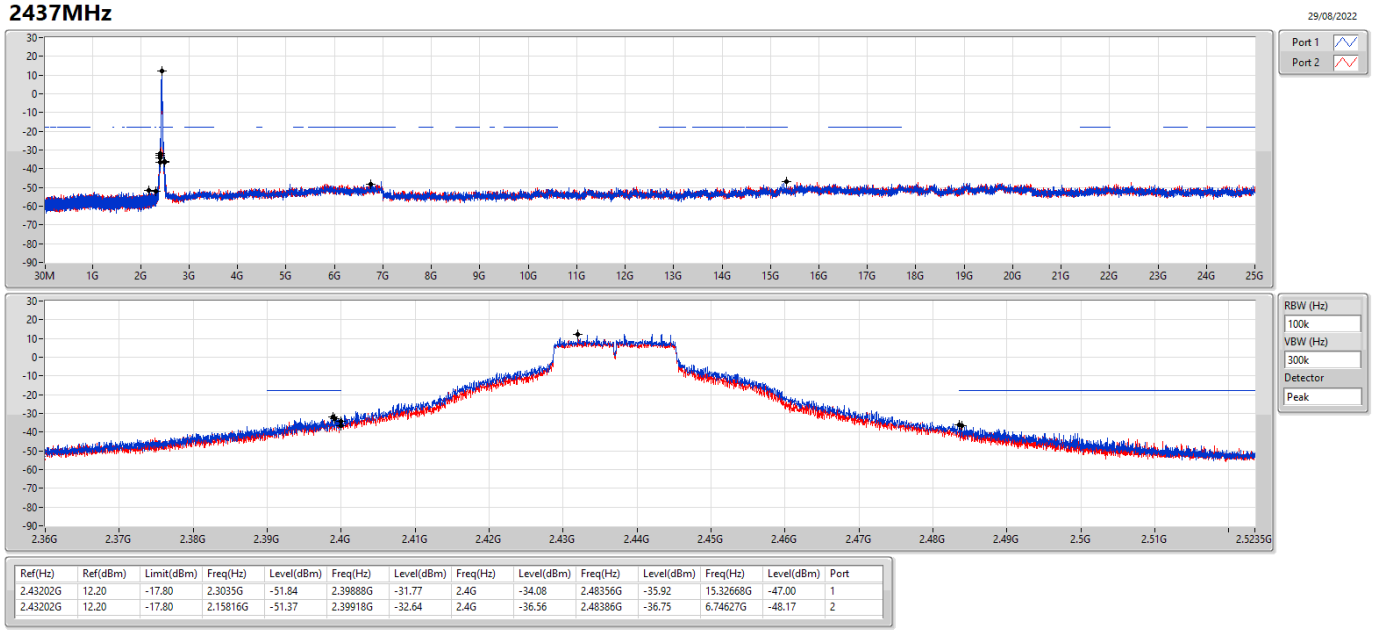
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.20	-17.80	2.30117G	-52.00	2.39668G	-28.72	2.4G	-31.36	2.49246G	-50.42	17.65861G	-47.91	1
2.43202G	12.20	-17.80	2.30088G	-52.36	2.39978G	-29.61	2.4G	-32.97	2.48642G	-50.77	16.43645G	-48.01	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

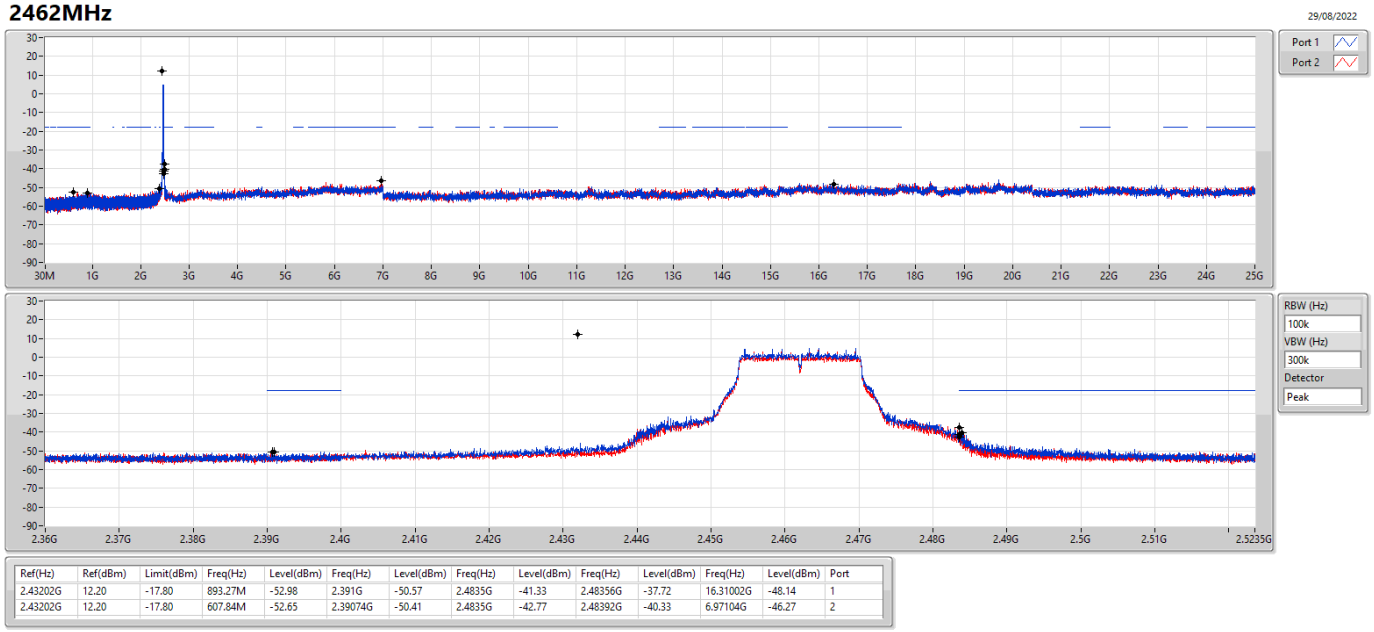
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.20	-17.80	2.3035G	-51.84	2.39888G	-31.77	2.4G	-34.08	2.48356G	-35.92	15.32668G	-47.00	1
2.43202G	12.20	-17.80	2.15816G	-51.37	2.39918G	-32.64	2.4G	-36.56	2.48386G	-36.75	6.74627G	-48.17	2

802.11g_Nss1,(6Mbps)_2TX **CSENdB**

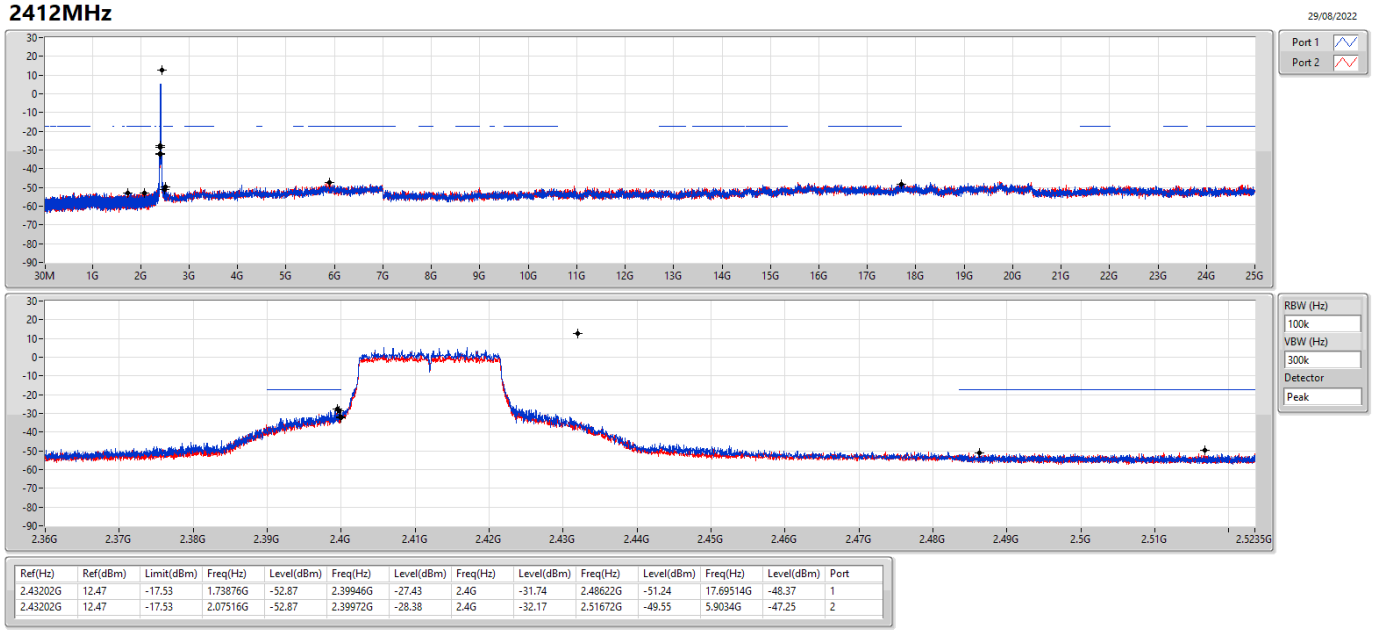
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.20	-17.80	893.27M	-52.98	2.391G	-50.57	2.4835G	-41.33	2.48356G	-37.72	16.31002G	-48.14	1
2.43202G	12.20	-17.80	607.84M	-52.65	2.39074G	-50.41	2.4835G	-42.77	2.48392G	-40.33	6.97104G	-46.27	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

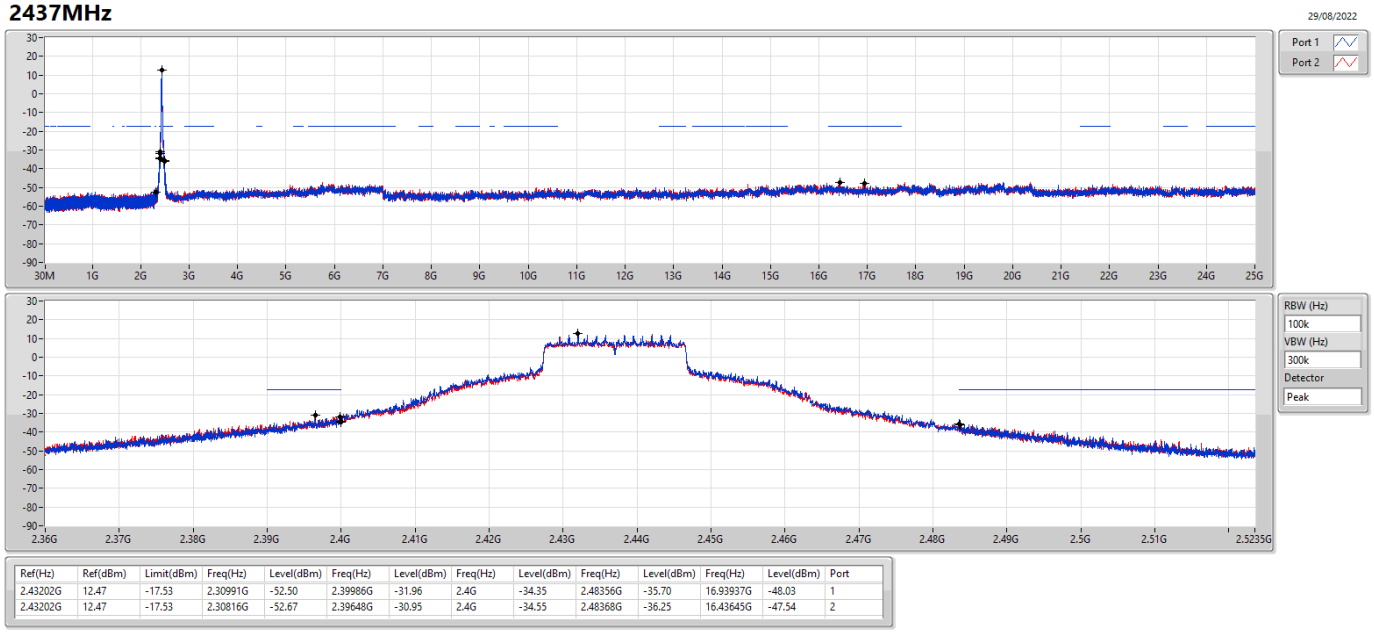
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.47	-17.53	1.73876G	-52.87	2.39946G	-27.43	2.4G	-31.74	2.48622G	-51.24	17.69514G	-48.37	1
2.43202G	12.47	-17.53	2.07516G	-52.87	2.39972G	-28.38	2.4G	-32.17	2.51672G	-49.55	5.9034G	-47.25	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

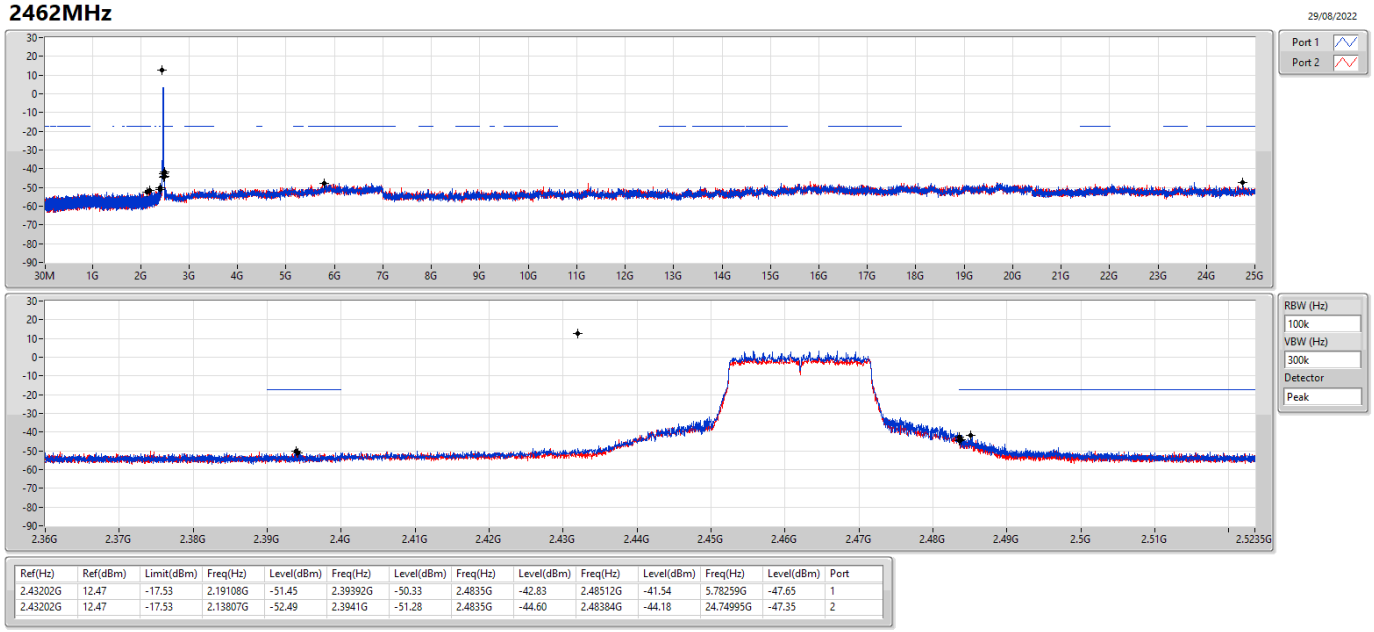
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.47	-17.53	2.30991G	-52.50	2.39986G	-31.96	2.4G	-34.35	2.48356G	-35.70	16.93937G	-48.03	1
2.43202G	12.47	-17.53	2.30816G	-52.67	2.39648G	-30.95	2.4G	-34.55	2.48368G	-36.25	16.43645G	-47.54	2

802.11ax HEW20-BF_Nss1,(MCS0)_2TX **CSENdB**

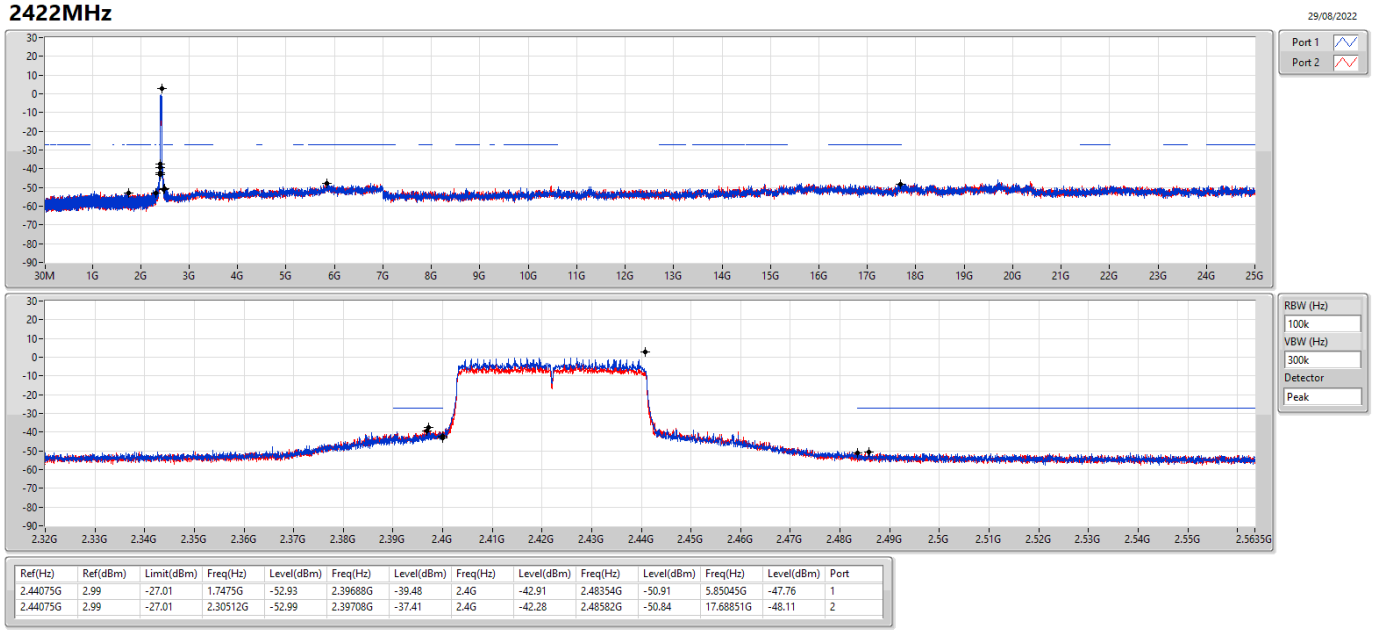
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43202G	12.47	-17.53	2.19108G	-51.45	2.39392G	-50.33	2.4835G	-42.83	2.48512G	-41.54	5.78259G	-47.65	1
2.43202G	12.47	-17.53	2.13807G	-52.49	2.3941G	-51.28	2.4835G	-44.60	2.48384G	-44.18	24.74995G	-47.35	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

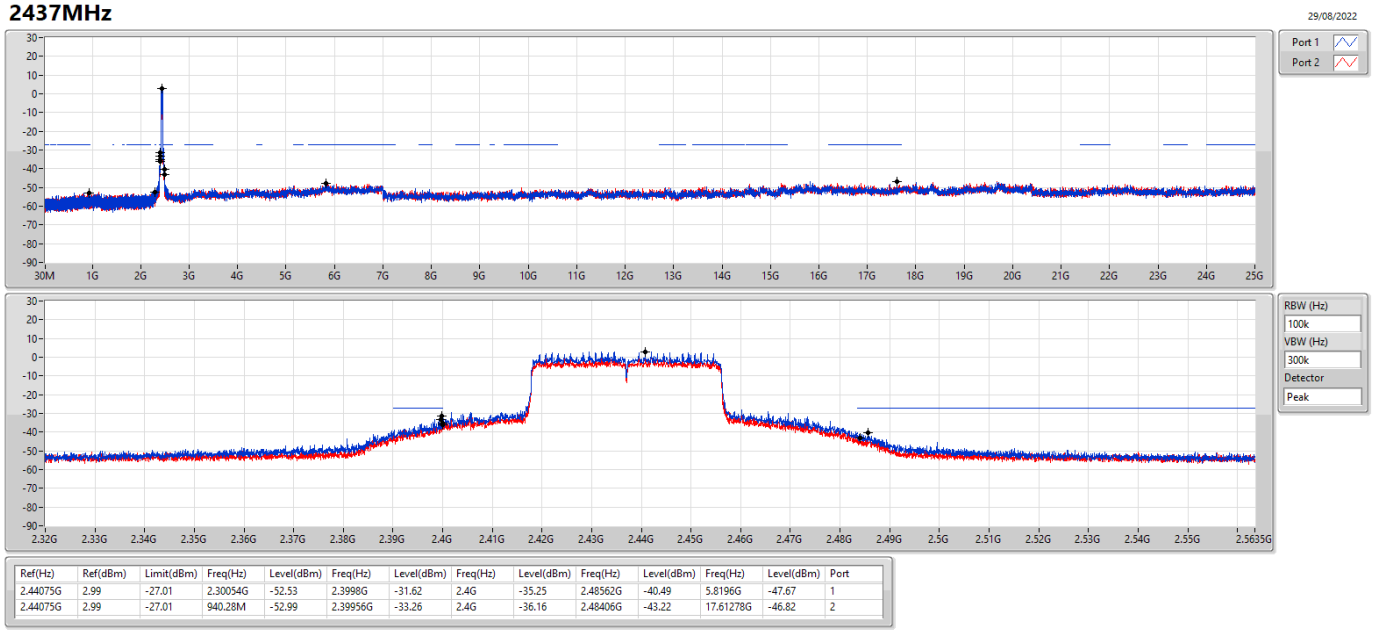
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	2.99	-27.01	1.7475G	-52.93	2.39688G	-39.48	2.4G	-42.91	2.48354G	-50.91	5.85045G	-47.76	1
2.44075G	2.99	-27.01	2.30512G	-52.99	2.39708G	-37.41	2.4G	-42.28	2.48582G	-50.84	17.68851G	-48.11	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

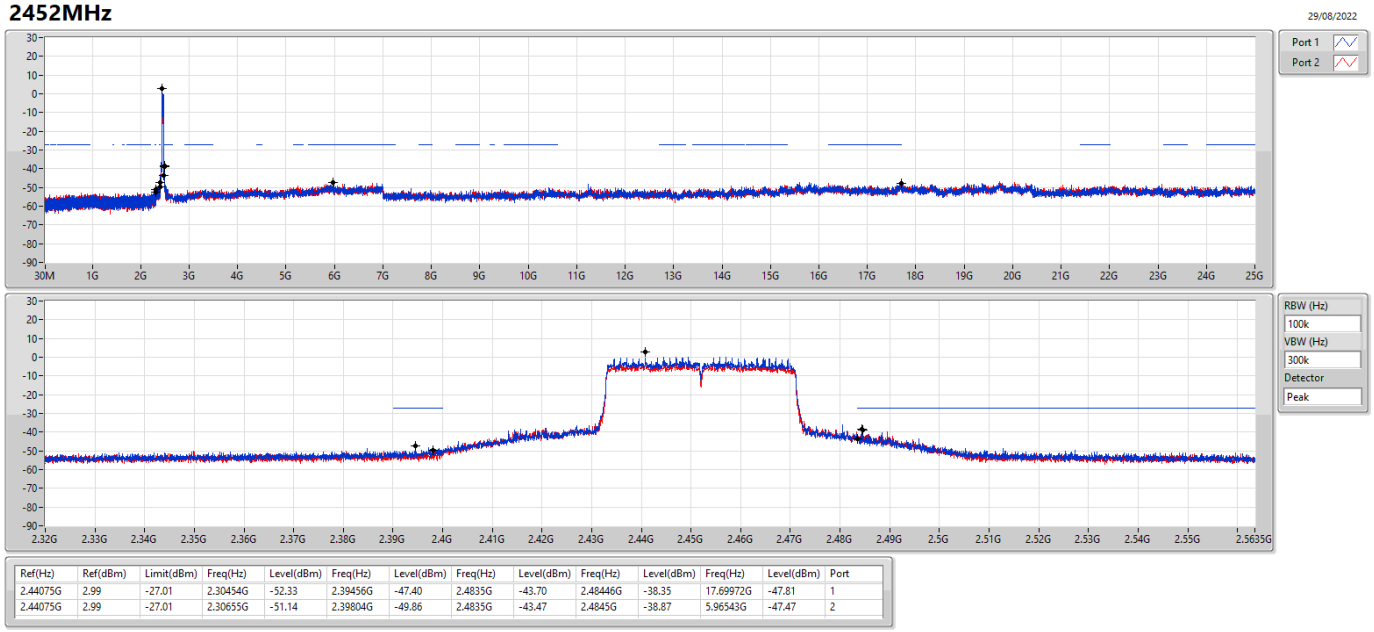
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	2.99	-27.01	2.30054G	-52.53	2.3998G	-31.62	2.4G	-35.25	2.48562G	-40.49	5.8196G	-47.67	1
2.44075G	2.99	-27.01	940.28M	-52.99	2.39956G	-33.26	2.4G	-36.16	2.48406G	-43.22	17.61278G	-46.82	2

802.11ax HEW40-BF_Nss1,(MCS0)_2TX **CSENdB**

2452MHz

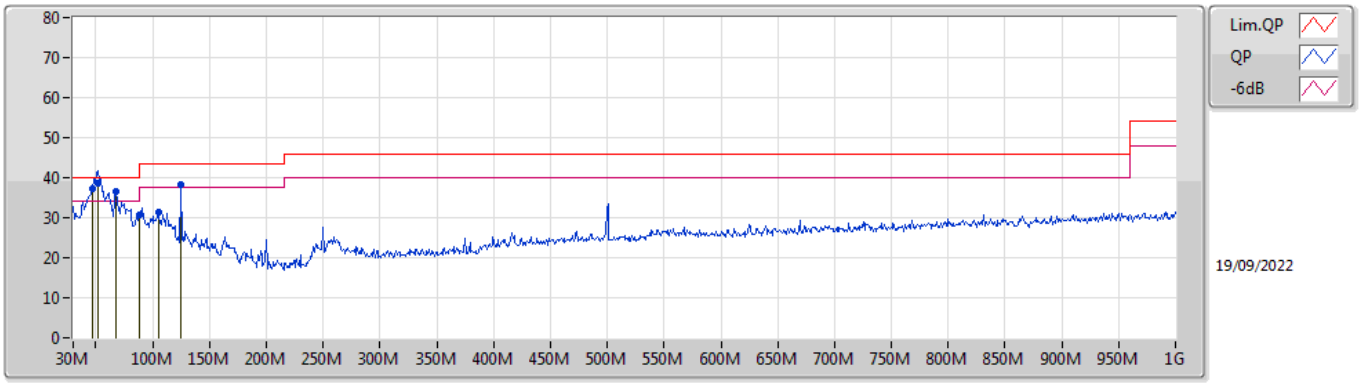


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	2.99	-27.01	2.30454G	-52.33	2.39456G	-47.40	2.4835G	-43.70	2.48446G	-38.35	17.69972G	-47.81	1
2.44075G	2.99	-27.01	2.30655G	-51.14	2.39804G	-49.86	2.4835G	-43.47	2.4845G	-38.87	5.96543G	-47.47	2

Summary

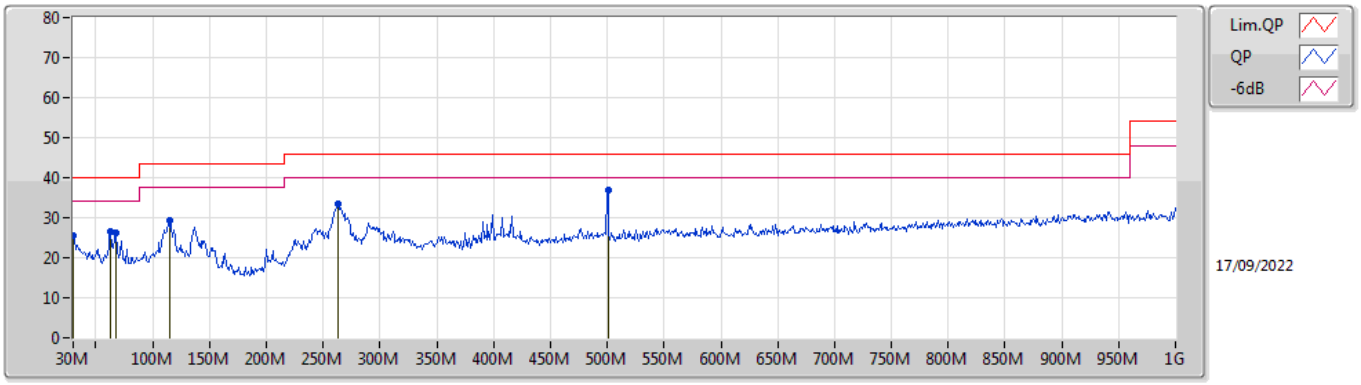
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	51.34M	38.63	40.00	-1.37	Vertical

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	46.49M	37.12	40.00	-2.88	-15.48	3	Vertical	357	1.00	-	52.60	15.33	1.03	31.84
QP	51.34M	38.63	40.00	-1.37	-17.27	3	Vertical	360	1.00	"Worst"	55.90	13.50	1.10	31.87
PK	67.83M	36.49	40.00	-3.51	-18.50	3	Vertical	323	1.00	-	54.99	12.19	1.26	31.95
PK	88M	30.78	43.50	-12.72	-16.34	3	Vertical	360	1.00	-	47.12	14.15	1.46	31.95
PK	104.69M	31.24	43.50	-12.26	-13.20	3	Vertical	34	1.00	-	44.44	17.25	1.52	31.97
PK	125.06M	38.20	43.50	-5.30	-12.44	3	Vertical	261	1.00	-	50.64	17.89	1.65	31.98

Mode 3



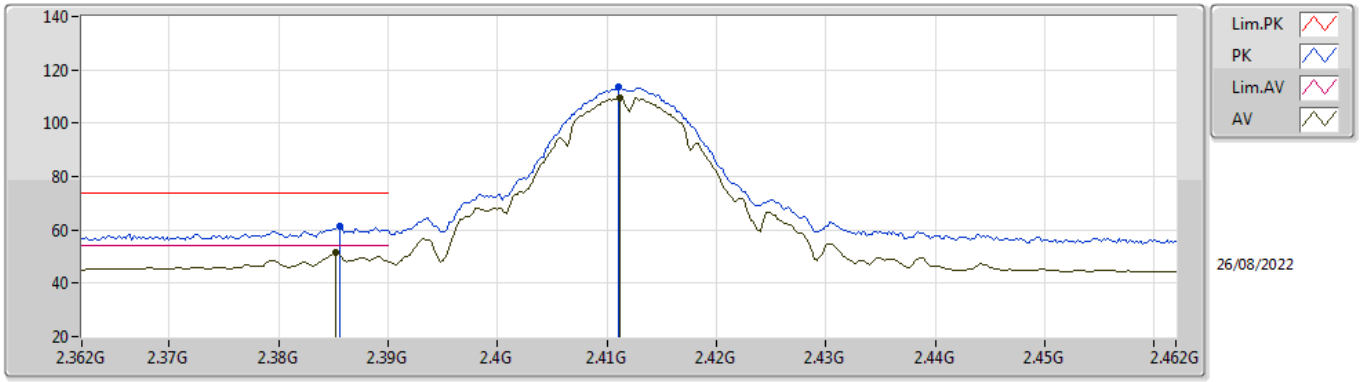
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	30M	25.62	40.00	-14.38	-6.76	3	Horizontal	106	1.00	-	32.38	23.99	0.80	31.55
PK	62.98M	26.38	40.00	-13.62	-18.51	3	Horizontal	193	1.00	-	44.89	12.22	1.20	31.93
PK	67.83M	26.21	40.00	-13.79	-18.50	3	Horizontal	106	1.00	-	44.71	12.19	1.26	31.95
PK	115.36M	29.35	43.50	-14.15	-12.51	3	Horizontal	229	1.00	-	41.86	17.88	1.58	31.97
PK	262.8M	33.51	46.00	-12.49	-10.29	3	Horizontal	266	1.00	-	43.80	19.19	2.55	32.03
PK	500.45M	36.77	46.00	-9.23	-5.60	3	Horizontal	250	1.00	"Worst"	42.37	23.20	3.60	32.40

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	2.3892G	53.94	54.00	-0.06	3	Horizontal	142	2.45	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

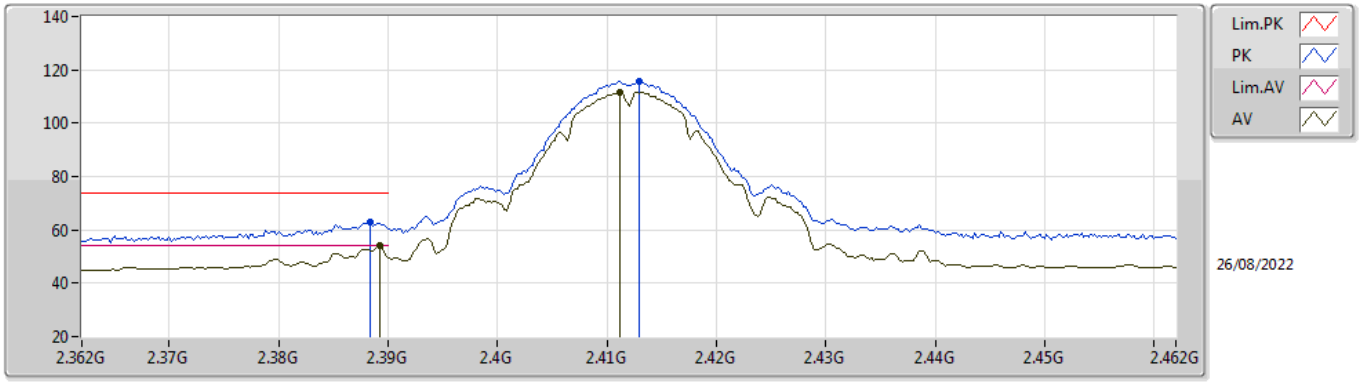


EUT Z_2TX
Setting 85
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3856G	61.26	74.00	-12.74	30.10	3	Vertical	327	2.83	-	28.37	2.79	-
AV	2.3852G	51.44	54.00	-2.56	20.28	3	Vertical	327	2.83	-	28.37	2.79	-
PK	2.411G	113.49	Inf	-Inf	82.28	3	Vertical	327	2.83	-	28.40	2.81	-
AV	2.4112G	109.69	Inf	-Inf	78.48	3	Vertical	327	2.83	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

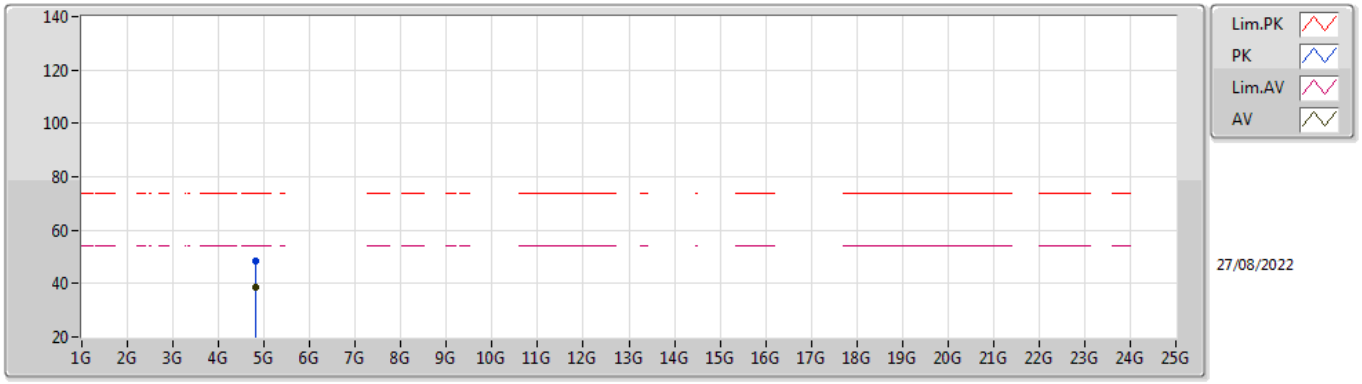


EUT Z_2TX
Setting 85
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3884G	62.87	74.00	-11.13	31.70	3	Horizontal	142	2.45	-	28.38	2.79	-
AV	2.3892G	53.94	54.00	-0.06	22.77	3	Horizontal	142	2.45	-	28.38	2.79	-
PK	2.413G	115.65	Inf	-Inf	84.44	3	Horizontal	142	2.45	-	28.40	2.81	-
AV	2.4112G	111.71	Inf	-Inf	80.50	3	Horizontal	142	2.45	-	28.40	2.81	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

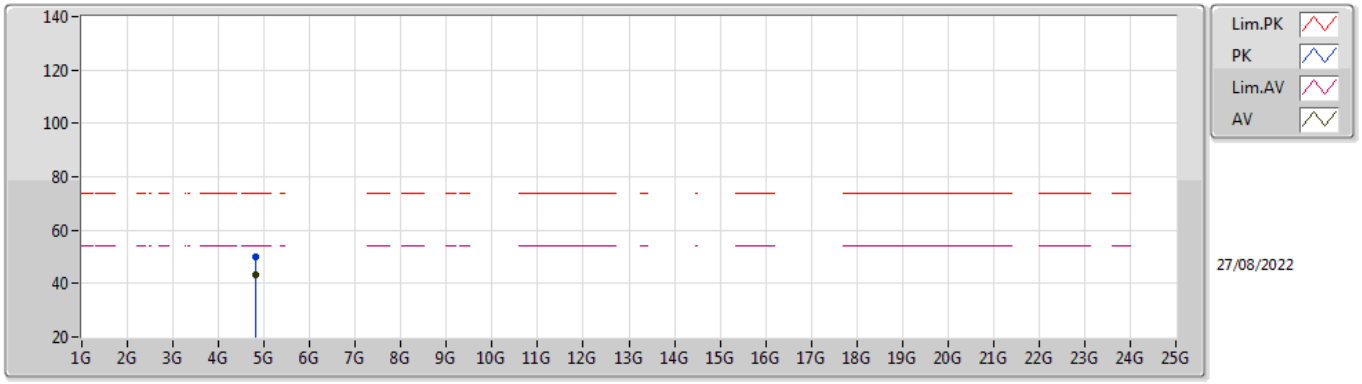


EUT Z_2TX
Setting 85
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.824G	48.34	74.00	-25.66	41.10	3	Vertical	35	2.32	-	32.94	5.10	30.80
AV	4.82396G	38.63	54.00	-15.37	31.39	3	Vertical	35	2.32	-	32.94	5.10	30.80

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

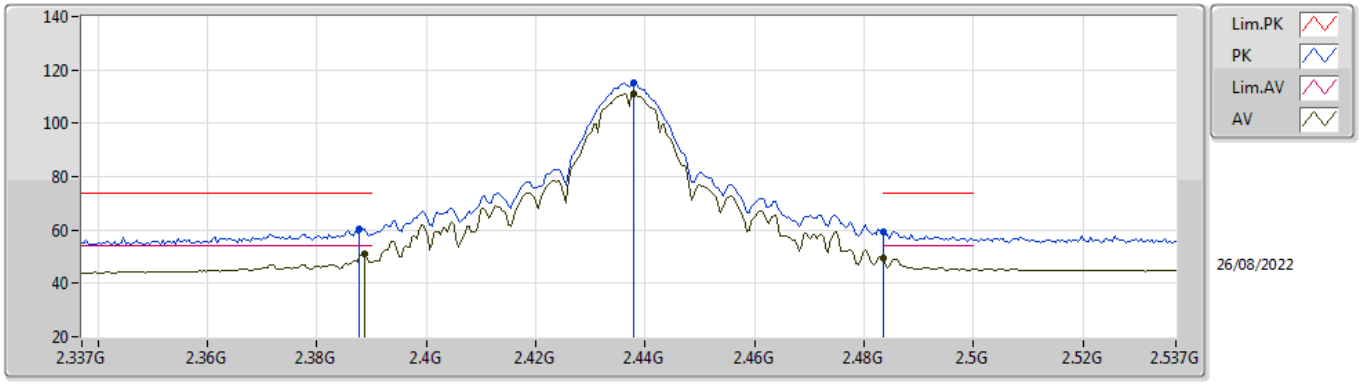


EUT Z_2TX
Setting 85
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.824G	49.88	74.00	-24.12	42.64	3	Horizontal	96	2.79	-	32.94	5.10	30.80
AV	4.82396G	43.14	54.00	-10.86	35.90	3	Horizontal	96	2.79	-	32.94	5.10	30.80

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

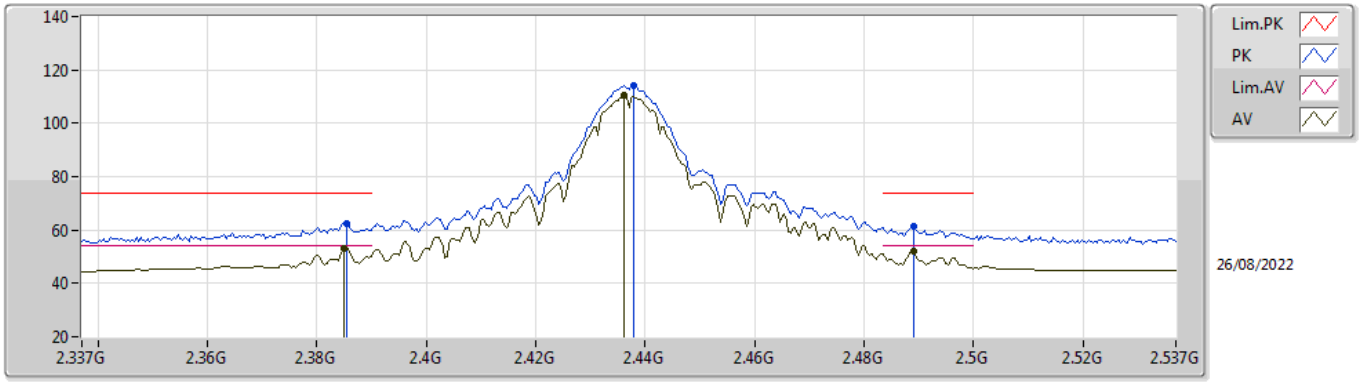


EUT Z_2TX
Setting 96
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3878G	60.11	74.00	-13.89	28.94	3	Vertical	214	1.00	-	28.38	2.79	-
AV	2.3886G	50.94	54.00	-3.06	19.77	3	Vertical	214	1.00	-	28.38	2.79	-
PK	2.4378G	114.97	Inf	-Inf	83.73	3	Vertical	214	1.00	-	28.40	2.84	-
AV	2.4378G	111.04	Inf	-Inf	79.80	3	Vertical	214	1.00	-	28.40	2.84	-
PK	2.4835G	59.56	74.00	-14.44	28.15	3	Vertical	214	1.00	-	28.53	2.88	-
AV	2.4835G	49.25	54.00	-4.75	17.84	3	Vertical	214	1.00	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

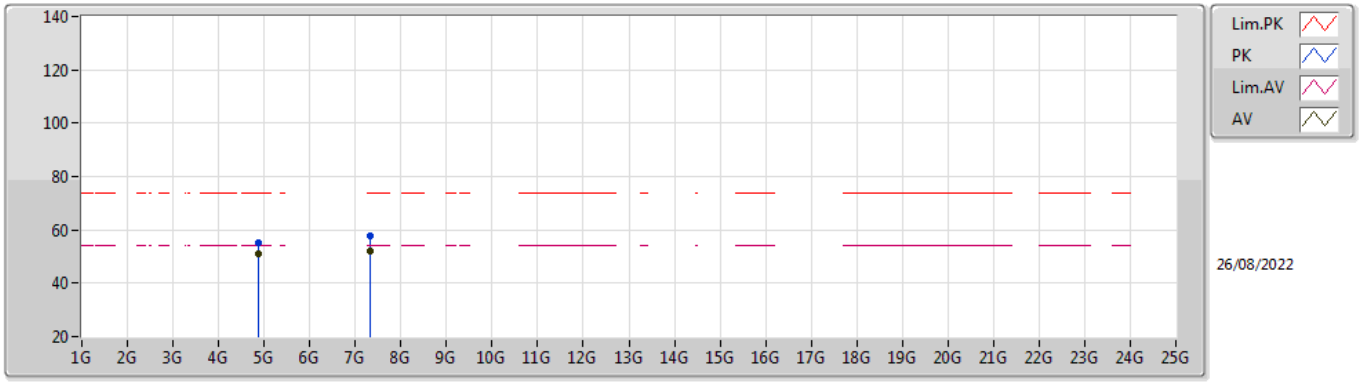


EUT Z_2TX
Setting 96
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3854G	62.31	74.00	-11.69	31.15	3	Horizontal	143	1.00	-	28.37	2.79	-
AV	2.385G	53.26	54.00	-0.74	22.10	3	Horizontal	143	1.00	-	28.37	2.79	-
PK	2.4378G	114.11	Inf	-Inf	82.87	3	Horizontal	143	1.00	-	28.40	2.84	-
AV	2.4362G	110.33	Inf	-Inf	79.09	3	Horizontal	143	1.00	-	28.40	2.84	-
PK	2.489G	61.14	74.00	-12.86	29.69	3	Horizontal	143	1.00	-	28.56	2.89	-
AV	2.489G	51.99	54.00	-2.01	20.54	3	Horizontal	143	1.00	-	28.56	2.89	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

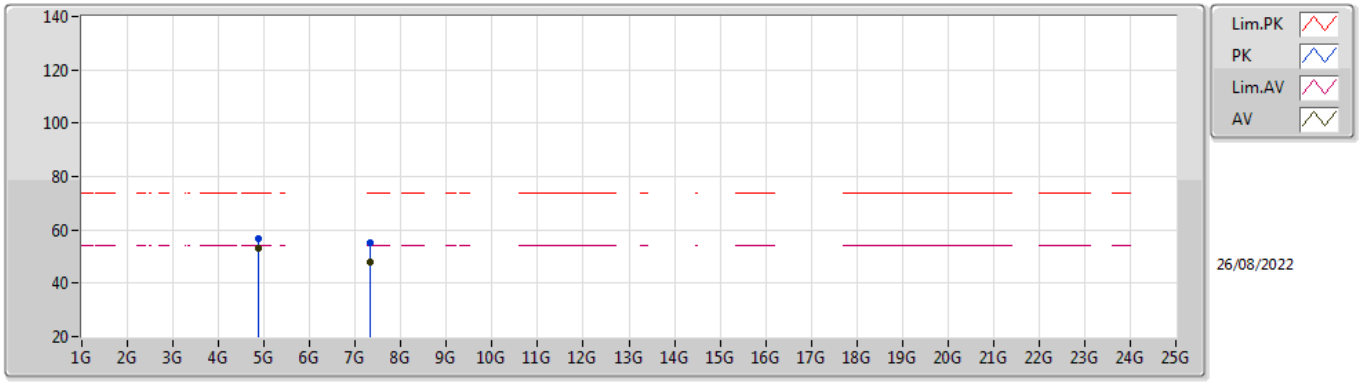


EUT Z_2TX
Setting 96
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87396G	55.02	74.00	-18.98	47.55	3	Vertical	65	2.50	-	33.15	5.10	30.78
AV	4.874G	50.82	54.00	-3.18	43.35	3	Vertical	65	2.50	-	33.15	5.10	30.78
PK	7.31196G	57.73	74.00	-16.27	47.07	3	Vertical	10	2.92	-	36.42	6.16	31.92
AV	7.31022G	51.82	54.00	-2.18	41.16	3	Vertical	10	2.92	-	36.42	6.16	31.92

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

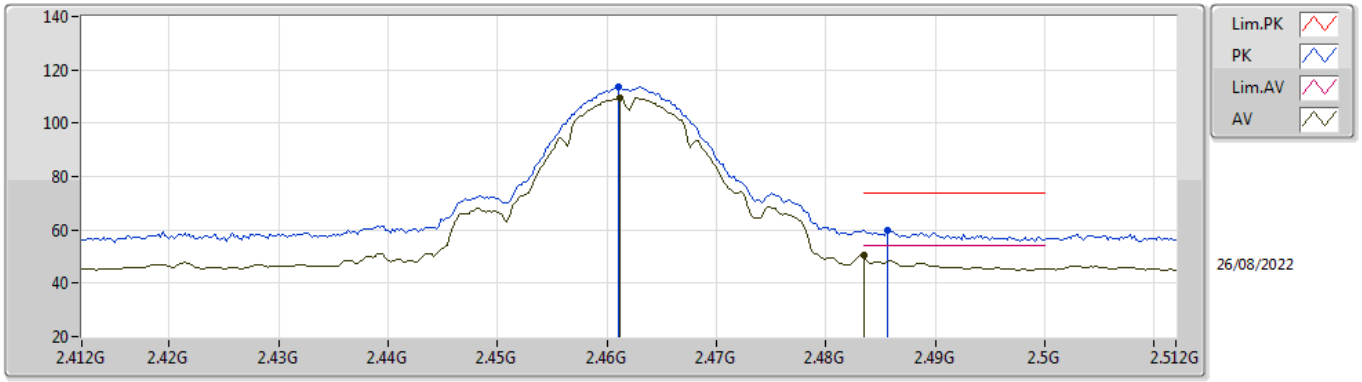


EUT Z_2TX
Setting 96
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87404G	56.69	74.00	-17.31	49.22	3	Horizontal	92	2.60	-	33.15	5.10	30.78
AV	4.87396G	53.14	54.00	-0.86	45.67	3	Horizontal	92	2.60	-	33.15	5.10	30.78
PK	7.31196G	55.35	74.00	-18.65	44.69	3	Horizontal	-0	2.53	-	36.42	6.16	31.92
AV	7.31022G	47.92	54.00	-6.08	37.26	3	Horizontal	-0	2.53	-	36.42	6.16	31.92

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

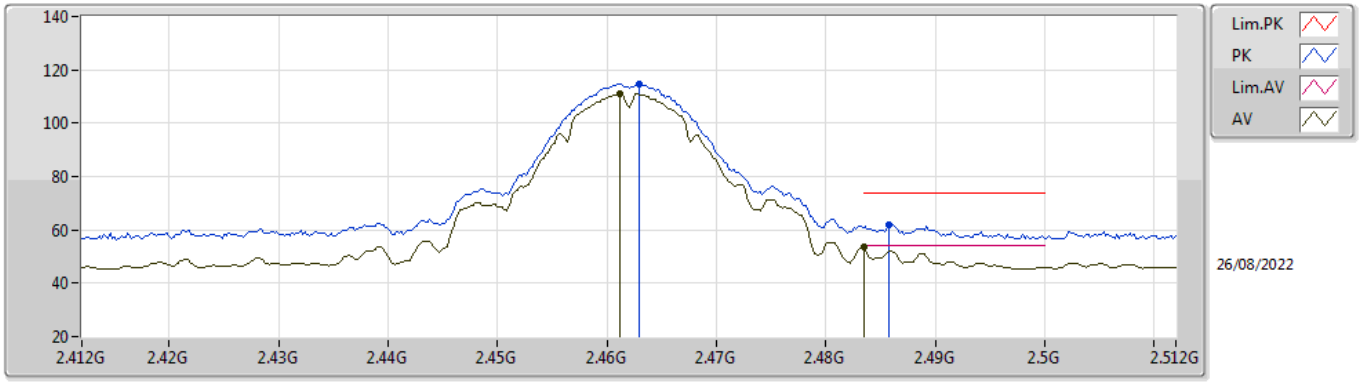


EUT Z_2TX
Setting 87
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.461G	113.46	Inf	-Inf	82.16	3	Vertical	210	3.00	-	28.44	2.86	-
AV	2.4612G	109.66	Inf	-Inf	78.36	3	Vertical	210	3.00	-	28.44	2.86	-
PK	2.4856G	59.74	74.00	-14.26	28.31	3	Vertical	210	3.00	-	28.54	2.89	-
AV	2.4835G	50.30	54.00	-3.70	18.89	3	Vertical	210	3.00	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

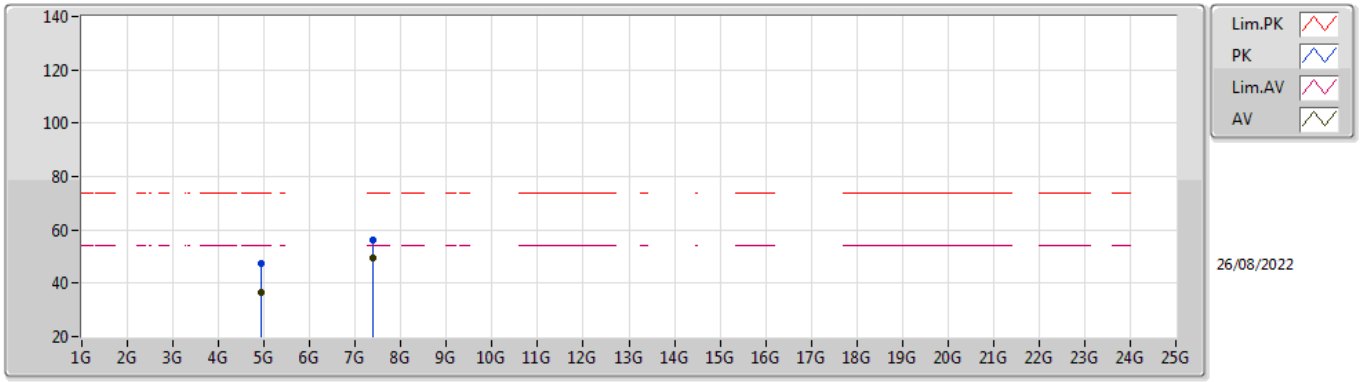


EUT Z_2TX
Setting 87
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	114.84	Inf	-Inf	83.53	3	Horizontal	238	1.20	-	28.45	2.86	-
AV	2.4612G	111.01	Inf	-Inf	79.71	3	Horizontal	238	1.20	-	28.44	2.86	-
PK	2.4858G	62.09	74.00	-11.91	30.66	3	Horizontal	238	1.20	-	28.54	2.89	-
AV	2.4835G	53.39	54.00	-0.61	21.98	3	Horizontal	238	1.20	-	28.53	2.88	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

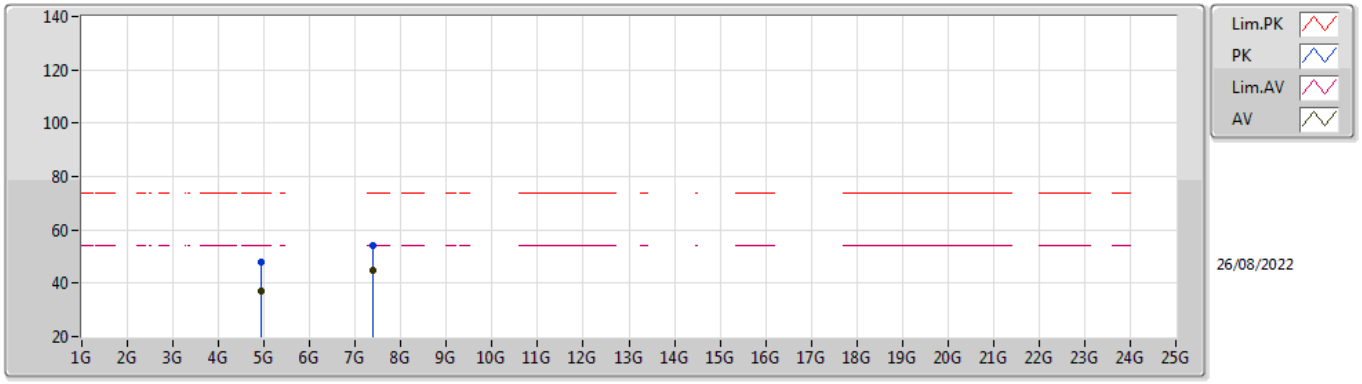


EUT Z_2TX
Setting 87
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92364G	47.27	74.00	-26.73	39.68	3	Vertical	56	2.88	-	33.25	5.10	30.76
AV	4.92394G	36.81	54.00	-17.19	29.22	3	Vertical	56	2.88	-	33.25	5.10	30.76
PK	7.38504G	56.22	74.00	-17.78	45.49	3	Vertical	351	1.00	-	36.50	6.19	31.96
AV	7.38672G	49.48	54.00	-4.52	38.75	3	Vertical	351	1.00	-	36.50	6.19	31.96

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

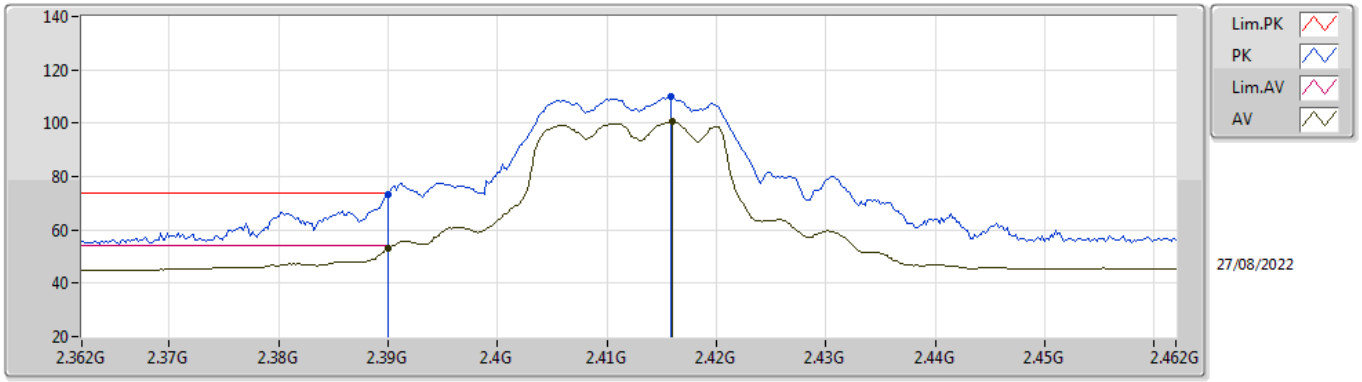


EUT Z_2TX
Setting 87
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9239G	47.72	74.00	-26.28	40.13	3	Horizontal	85	3.00	-	33.25	5.10	30.76
AV	4.924G	37.14	54.00	-16.86	29.55	3	Horizontal	85	3.00	-	33.25	5.10	30.76
PK	7.3868G	54.26	74.00	-19.74	43.53	3	Horizontal	294	2.97	-	36.50	6.19	31.96
AV	7.38528G	44.97	54.00	-9.03	34.24	3	Horizontal	294	2.97	-	36.50	6.19	31.96

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

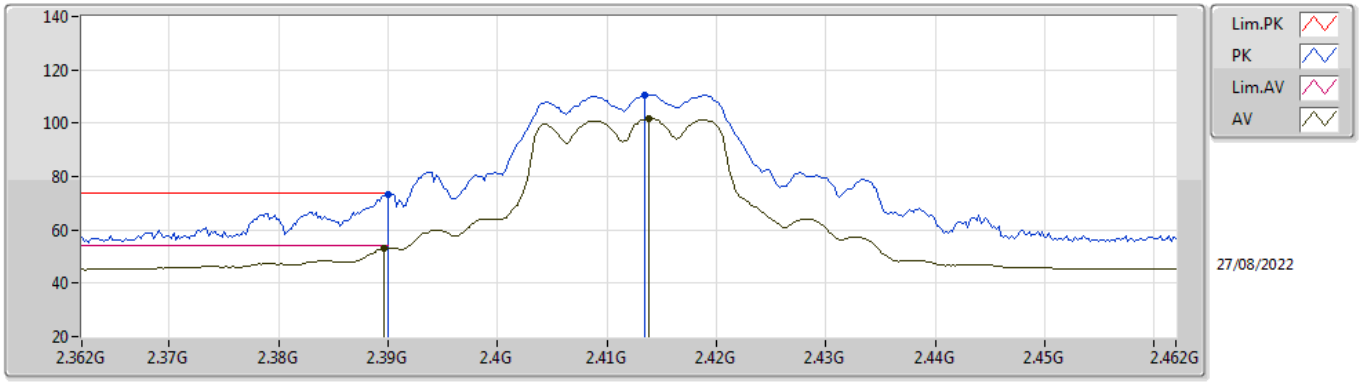


EUT Z_2TX
Setting 65
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	73.45	74.00	-0.55	42.28	3	Vertical	220	1.12	-	28.38	2.79	-
AV	2.39G	52.93	54.00	-1.07	21.76	3	Vertical	220	1.12	-	28.38	2.79	-
PK	2.4158G	109.92	Inf	-Inf	78.70	3	Vertical	220	1.12	-	28.40	2.82	-
AV	2.416G	100.67	Inf	-Inf	69.45	3	Vertical	220	1.12	-	28.40	2.82	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

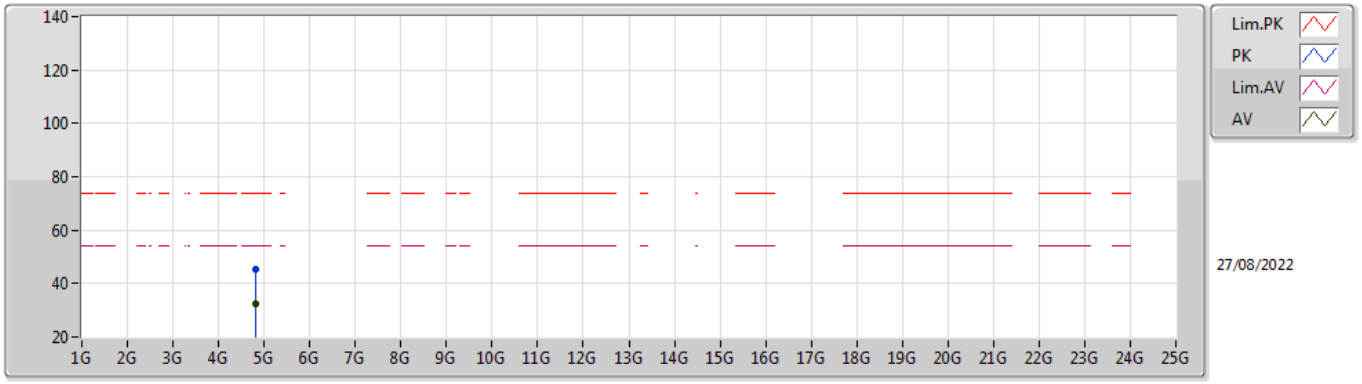


EUT Z_2TX
Setting 65
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	73.50	74.00	-0.50	42.33	3	Horizontal	143	1.36	-	28.38	2.79	-
AV	2.3896G	53.25	54.00	-0.75	22.08	3	Horizontal	143	1.36	-	28.38	2.79	-
PK	2.4134G	110.58	Inf	-Inf	79.37	3	Horizontal	143	1.36	-	28.40	2.81	-
AV	2.4138G	101.67	Inf	-Inf	70.46	3	Horizontal	143	1.36	-	28.40	2.81	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

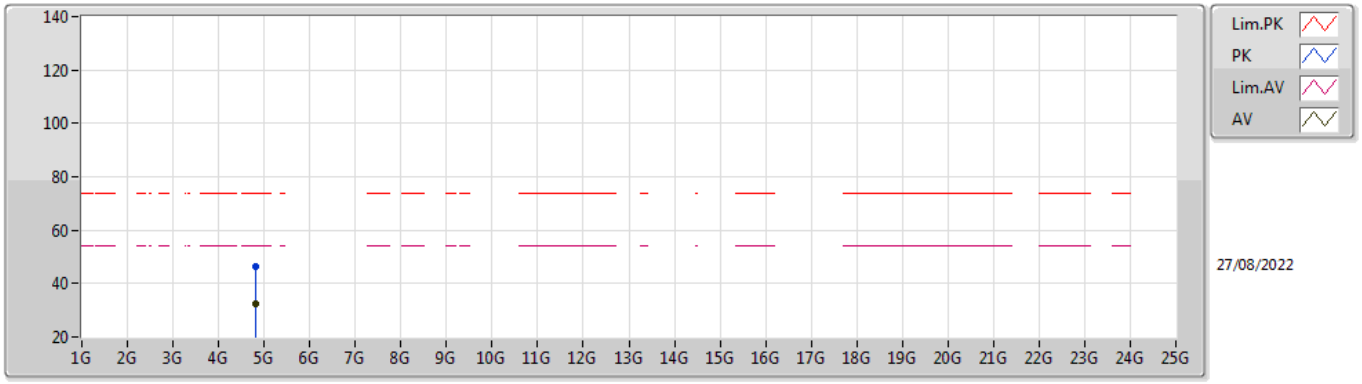


EUT Z_2TX
Setting 65
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82488G	45.25	74.00	-28.75	38.00	3	Vertical	23	2.64	-	32.95	5.10	30.80
AV	4.82476G	32.43	54.00	-21.57	25.18	3	Vertical	23	2.64	-	32.95	5.10	30.80

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

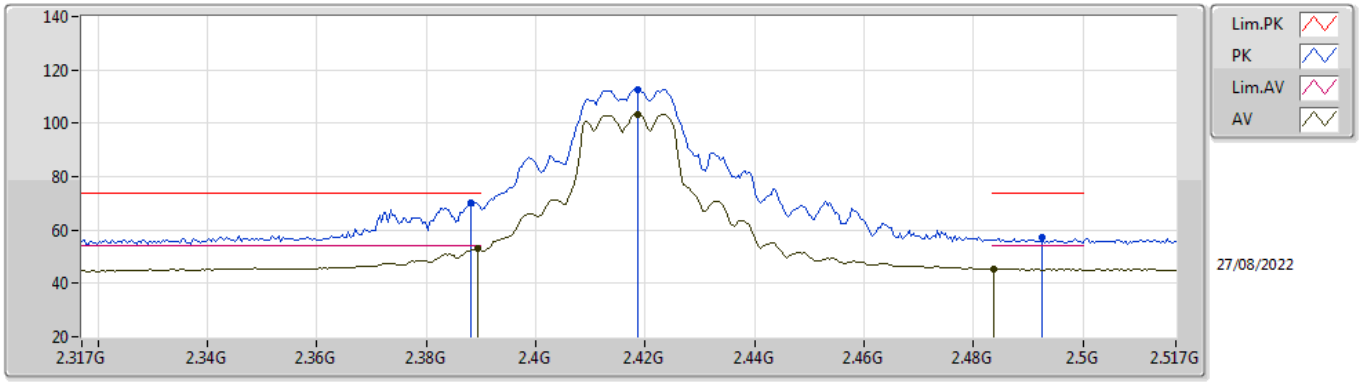


EUT Z_2TX
Setting 65
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82464G	46.22	74.00	-27.78	38.97	3	Horizontal	301	2.02	-	32.95	5.10	30.80
AV	4.82032G	32.48	54.00	-21.52	25.27	3	Horizontal	301	2.02	-	32.92	5.10	30.81

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

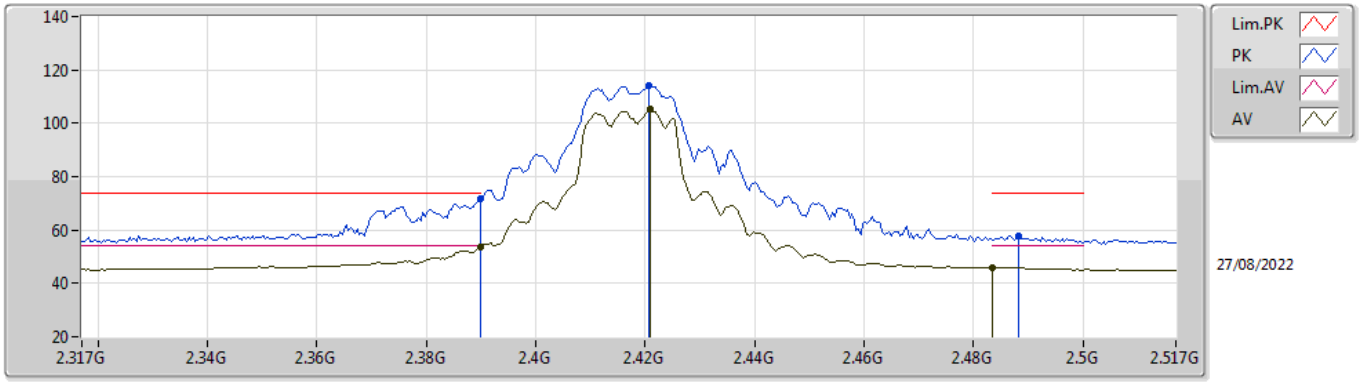


EUT Z_2TX
Setting 77
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	70.28	74.00	-3.72	39.11	3	Vertical	220	1.09	-	28.38	2.79	-
AV	2.3894G	52.98	54.00	-1.02	21.81	3	Vertical	220	1.09	-	28.38	2.79	-
PK	2.4186G	112.73	Inf	-Inf	81.51	3	Vertical	220	1.09	-	28.40	2.82	-
AV	2.4186G	103.40	Inf	-Inf	72.18	3	Vertical	220	1.09	-	28.40	2.82	-
PK	2.4926G	57.09	74.00	-16.91	25.63	3	Vertical	220	1.09	-	28.57	2.89	-
AV	2.4838G	45.43	54.00	-8.57	14.01	3	Vertical	220	1.09	-	28.54	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

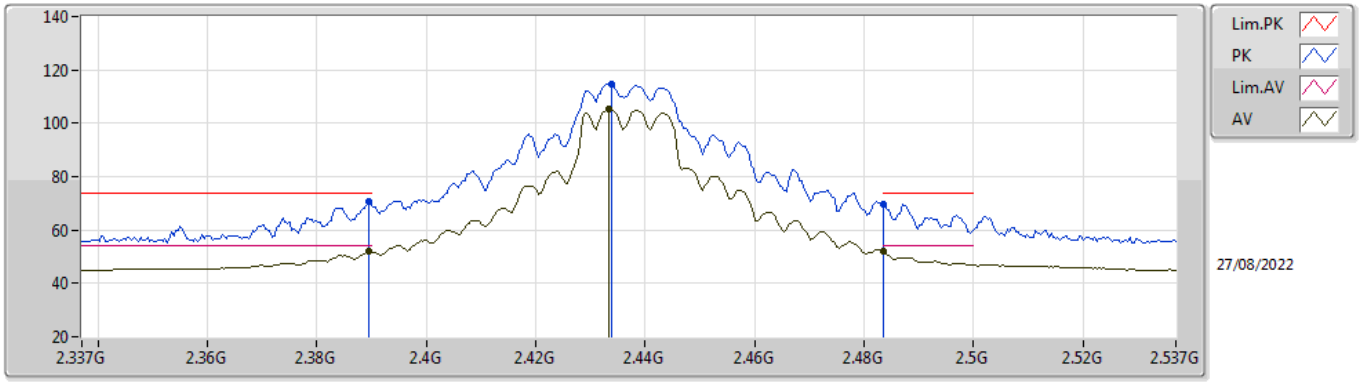


EUT Z_2TX
Setting 77
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	71.76	74.00	-2.24	40.59	3	Horizontal	143	1.11	-	28.38	2.79	-
AV	2.3898G	53.76	54.00	-0.24	22.59	3	Horizontal	143	1.11	-	28.38	2.79	-
PK	2.4206G	114.17	Inf	-Inf	82.95	3	Horizontal	143	1.11	-	28.40	2.82	-
AV	2.421G	105.22	Inf	-Inf	74.00	3	Horizontal	143	1.11	-	28.40	2.82	-
PK	2.4882G	57.57	74.00	-16.43	26.13	3	Horizontal	143	1.11	-	28.55	2.89	-
AV	2.4835G	45.98	54.00	-8.02	14.57	3	Horizontal	143	1.11	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

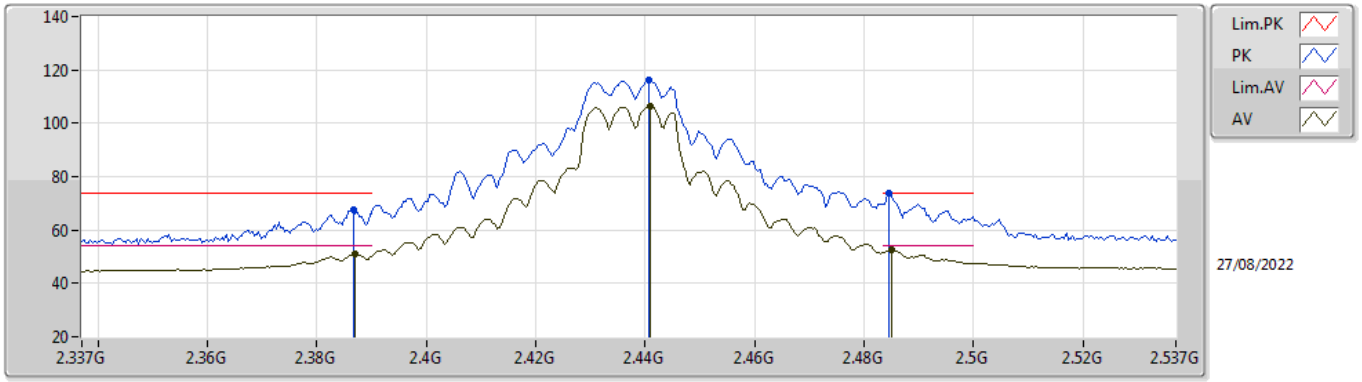


EUT Z_2TX
Setting 89
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	70.45	74.00	-3.55	39.28	3	Vertical	222	1.09	-	28.38	2.79	-
AV	2.3894G	51.88	54.00	-2.12	20.71	3	Vertical	222	1.09	-	28.38	2.79	-
PK	2.4338G	114.91	Inf	-Inf	83.68	3	Vertical	222	1.09	-	28.40	2.83	-
AV	2.4334G	105.27	Inf	-Inf	74.04	3	Vertical	222	1.09	-	28.40	2.83	-
PK	2.4835G	69.60	74.00	-4.40	38.19	3	Vertical	222	1.09	-	28.53	2.88	-
AV	2.4835G	51.95	54.00	-2.05	20.54	3	Vertical	222	1.09	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

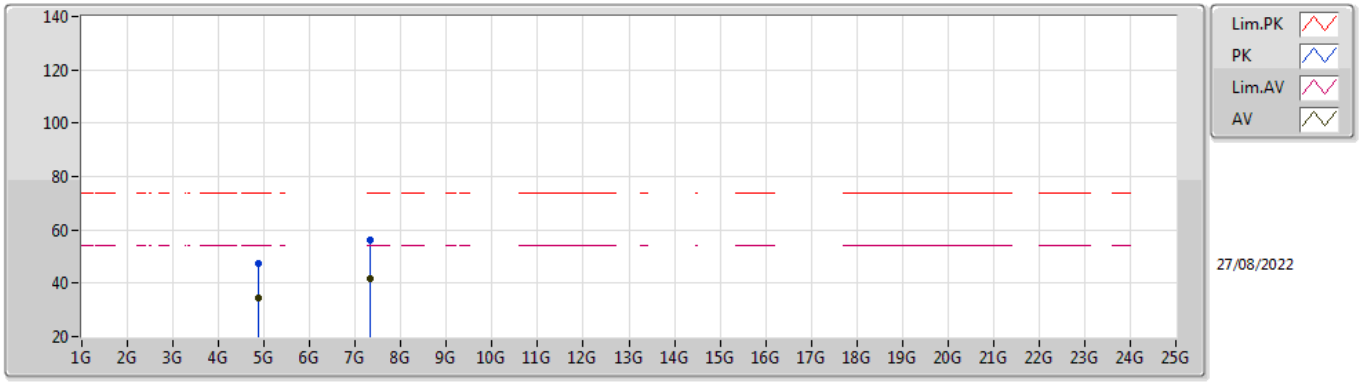


EUT Z_2TX
Setting 89
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3866G	67.66	74.00	-6.34	36.50	3	Horizontal	22	1.00	-	28.37	2.79	-
AV	2.387G	50.88	54.00	-3.12	19.72	3	Horizontal	22	1.00	-	28.37	2.79	-
PK	2.4406G	116.24	Inf	-Inf	85.00	3	Horizontal	22	1.00	-	28.40	2.84	-
AV	2.441G	106.47	Inf	-Inf	75.23	3	Horizontal	22	1.00	-	28.40	2.84	-
PK	2.4846G	73.88	74.00	-0.12	42.46	3	Horizontal	22	1.00	-	28.54	2.88	-
AV	2.485G	52.68	54.00	-1.32	21.25	3	Horizontal	22	1.00	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

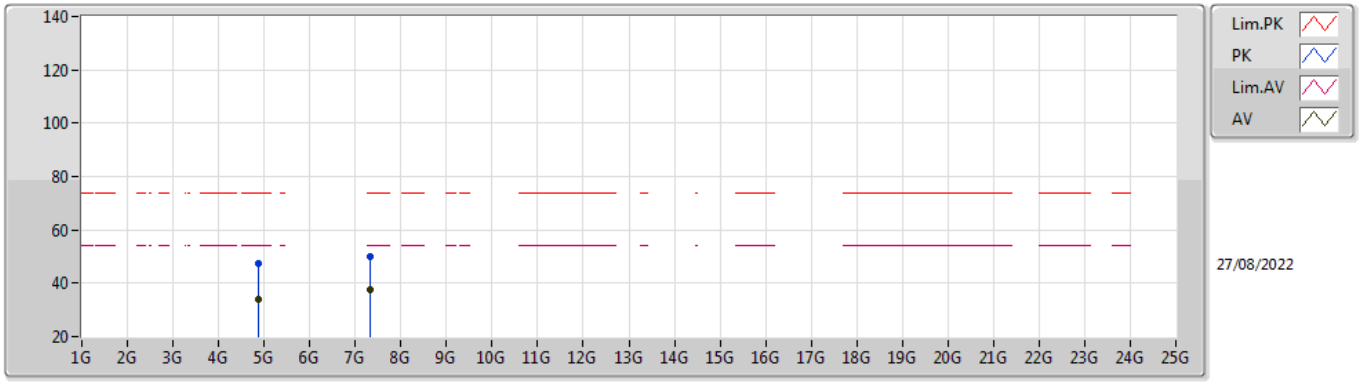


EUT Z_2TX
Setting 89
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87216G	47.50	74.00	-26.50	40.04	3	Vertical	50	1.75	-	33.14	5.10	30.78
AV	4.87652G	34.26	54.00	-19.74	26.79	3	Vertical	50	1.75	-	33.15	5.10	30.78
PK	7.31508G	55.98	74.00	-18.02	45.31	3	Vertical	14	2.93	-	36.43	6.16	31.92
AV	7.31424G	41.70	54.00	-12.30	31.03	3	Vertical	14	2.93	-	36.43	6.16	31.92

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

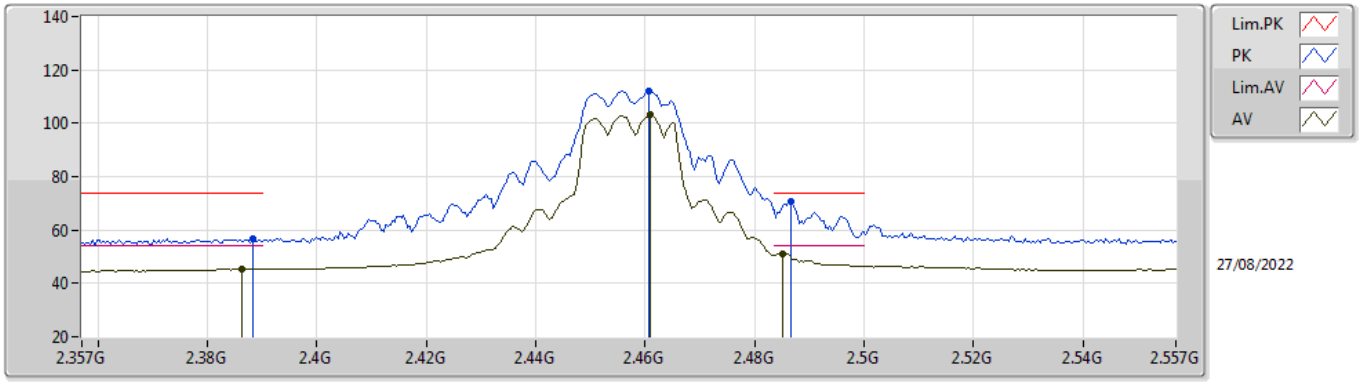


EUT Z_2TX
Setting 89
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8746G	47.17	74.00	-26.83	39.70	3	Horizontal	184	1.49	-	33.15	5.10	30.78
AV	4.87G	34.06	54.00	-19.94	26.60	3	Horizontal	184	1.49	-	33.14	5.10	30.78
PK	7.31804G	50.02	74.00	-23.98	39.34	3	Horizontal	51	2.00	-	36.44	6.16	31.92
AV	7.31484G	37.35	54.00	-16.65	26.68	3	Horizontal	51	2.00	-	36.43	6.16	31.92

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

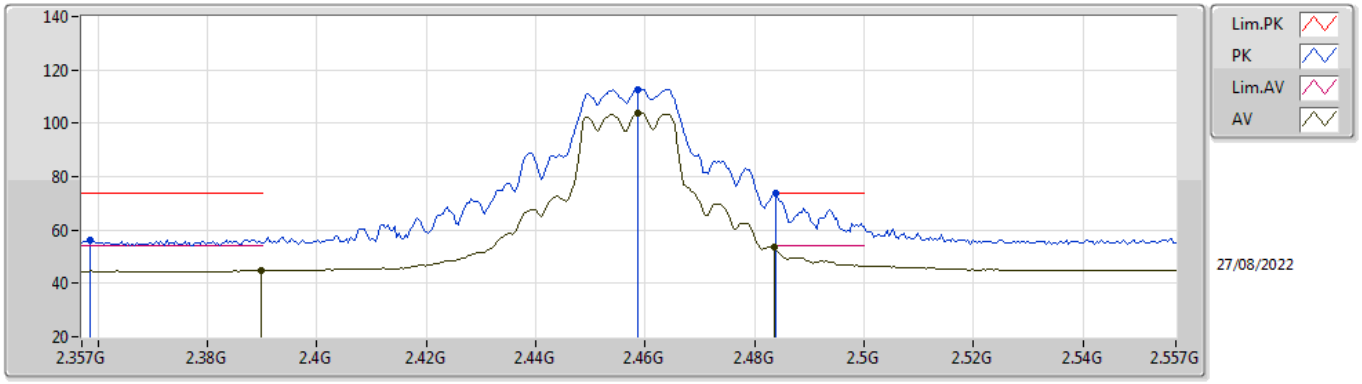


EUT Z_2TX
Setting 75
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	56.78	74.00	-17.22	25.61	3	Vertical	221	1.09	-	28.38	2.79	-
AV	2.3862G	45.40	54.00	-8.60	14.24	3	Vertical	221	1.09	-	28.37	2.79	-
PK	2.4606G	112.22	Inf	-Inf	80.92	3	Vertical	221	1.09	-	28.44	2.86	-
AV	2.461G	103.11	Inf	-Inf	71.81	3	Vertical	221	1.09	-	28.44	2.86	-
PK	2.4866G	70.50	74.00	-3.50	39.06	3	Vertical	221	1.09	-	28.55	2.89	-
AV	2.485G	51.25	54.00	-2.75	19.82	3	Vertical	221	1.09	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

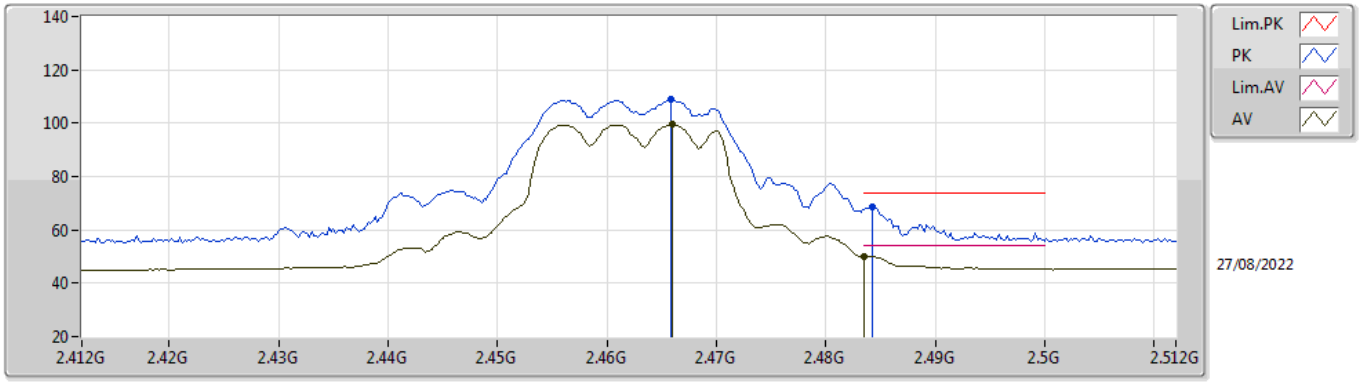


EUT Z_2TX
Setting 75
02-F-B-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3586G	56.42	74.00	-17.58	25.32	3	Horizontal	297	2.66	-	28.32	2.78	-
AV	2.3898G	44.90	54.00	-9.10	13.73	3	Horizontal	297	2.66	-	28.38	2.79	-
PK	2.4586G	112.83	Inf	-Inf	81.54	3	Horizontal	297	2.66	-	28.43	2.86	-
AV	2.4586G	103.89	Inf	-Inf	72.60	3	Horizontal	297	2.66	-	28.43	2.86	-
PK	2.4838G	73.59	74.00	-0.41	42.17	3	Horizontal	297	2.66	-	28.54	2.88	-
AV	2.4835G	53.68	54.00	-0.32	22.27	3	Horizontal	297	2.66	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

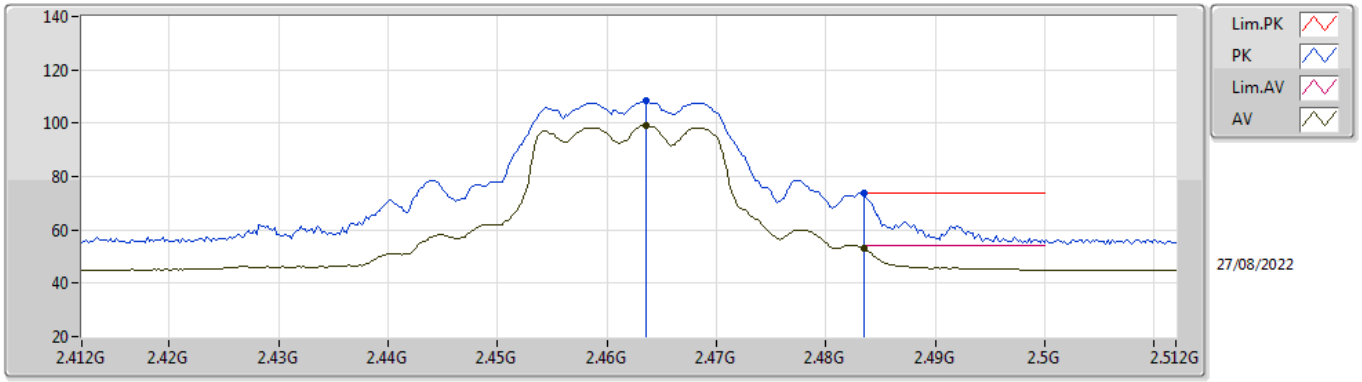


EUT Z_2TX
Setting 62
02-F-R-6

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4658G	108.72	Inf	-Inf	77.39	3	Vertical	225	1.08	-	28.46	2.87	-
AV	2.466G	99.75	Inf	-Inf	68.42	3	Vertical	225	1.08	-	28.46	2.87	-
PK	2.4842G	68.63	74.00	-5.37	37.21	3	Vertical	225	1.08	-	28.54	2.88	-
AV	2.4835G	50.17	54.00	-3.83	18.76	3	Vertical	225	1.08	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

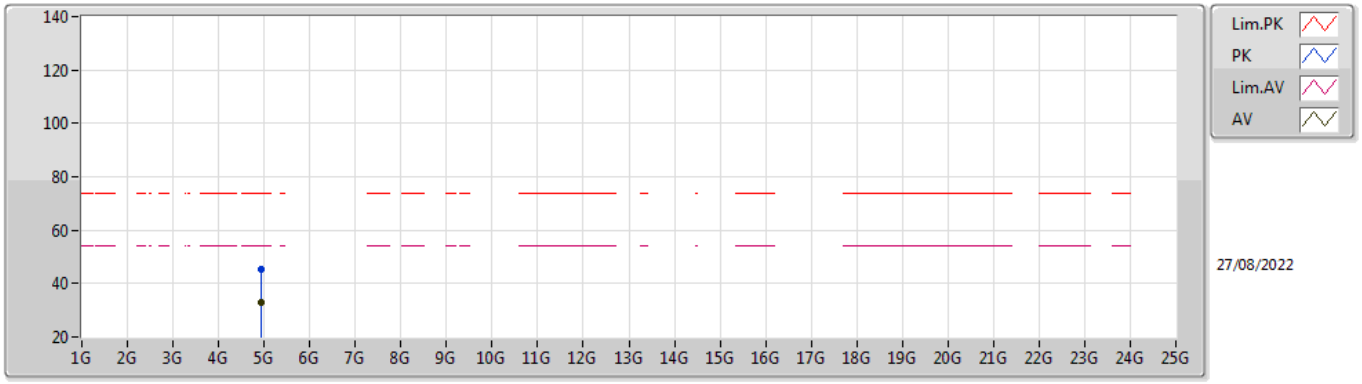


EUT Z_2TX
Setting 62
02-F-R-6

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4636G	108.27	Inf	-Inf	76.96	3	Horizontal	150	1.34	-	28.45	2.86	-
AV	2.4636G	99.03	Inf	-Inf	67.72	3	Horizontal	150	1.34	-	28.45	2.86	-
PK	2.4835G	73.66	74.00	-0.34	42.25	3	Horizontal	150	1.34	-	28.53	2.88	-
AV	2.4835G	52.86	54.00	-1.14	21.45	3	Horizontal	150	1.34	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

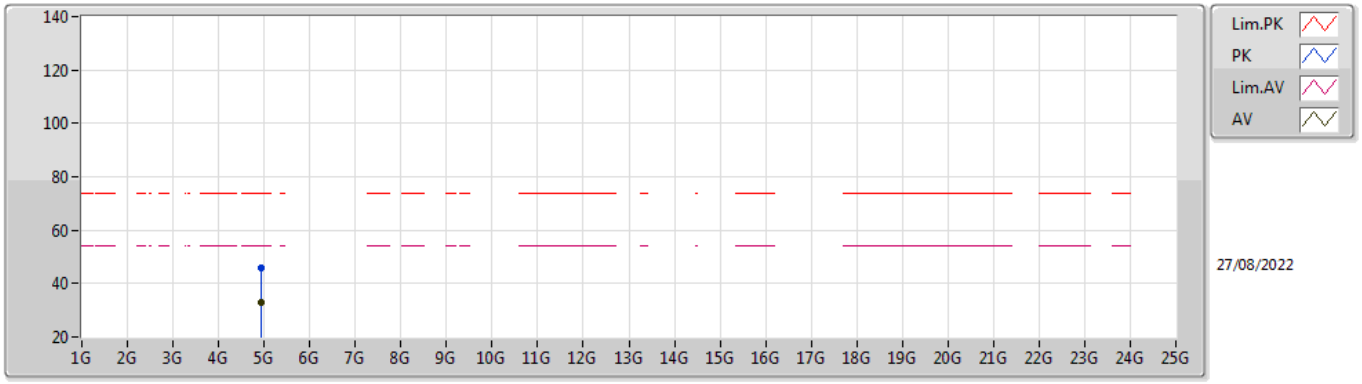


EUT Z_2TX
Setting 62
02-F-R-6

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92596G	45.29	74.00	-28.71	37.70	3	Vertical	241	2.88	-	33.25	5.10	30.76
AV	4.9296G	32.74	54.00	-21.26	25.14	3	Vertical	241	2.88	-	33.26	5.10	30.76

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



EUT Z_2TX
Setting 62
02-F-R-6

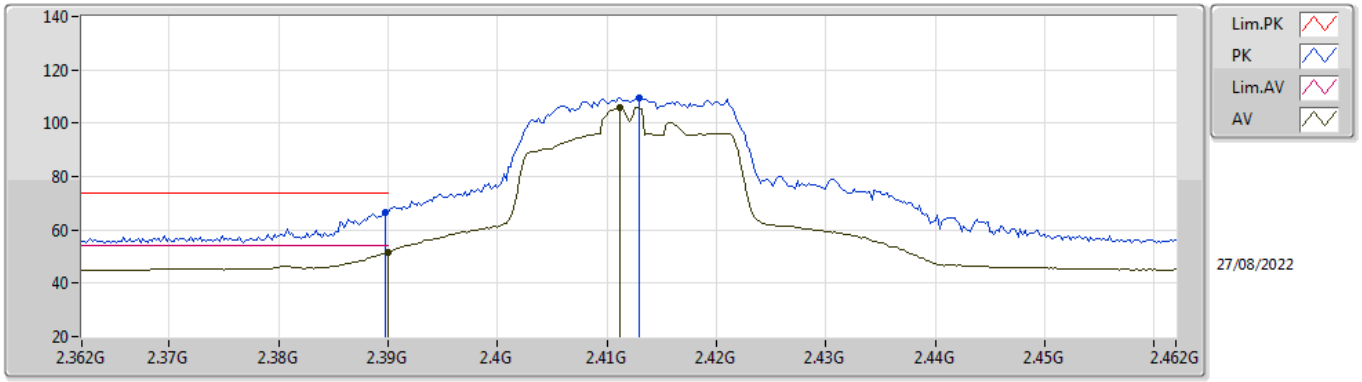
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92G	45.68	74.00	-28.32	38.10	3	Horizontal	44	2.23	-	33.24	5.10	30.76
AV	4.92916G	32.84	54.00	-21.16	25.24	3	Horizontal	44	2.23	-	33.26	5.10	30.76

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	-	-	-	-	-	-	-	-	-	-	-
ax40_BF_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.98	54.00	-0.02	3	Horizontal	330	1.25	-

ax20_BF_Nss1,(MCS0)_2TX

2412MHz_TX

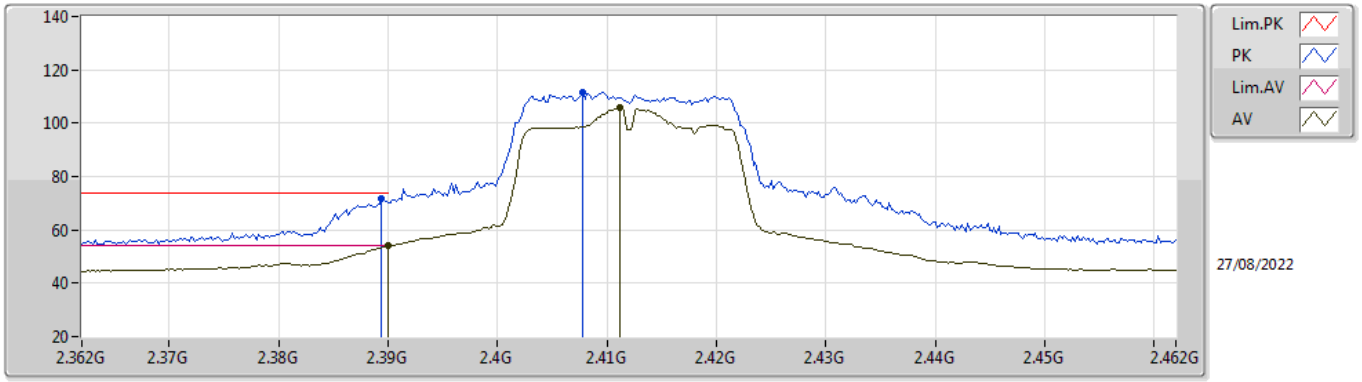


EUT Z_2TX
Setting 62
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	66.51	74.00	-7.49	35.34	3	Vertical	213	1.26	-	28.38	2.79	-
AV	2.39G	51.70	54.00	-2.30	20.53	3	Vertical	213	1.26	-	28.38	2.79	-
PK	2.413G	109.68	Inf	-Inf	78.47	3	Vertical	213	1.26	-	28.40	2.81	-
AV	2.4112G	105.82	Inf	-Inf	74.61	3	Vertical	213	1.26	-	28.40	2.81	-

ax20_BF_Nss1,(MCS0)_2TX

2412MHz_TX

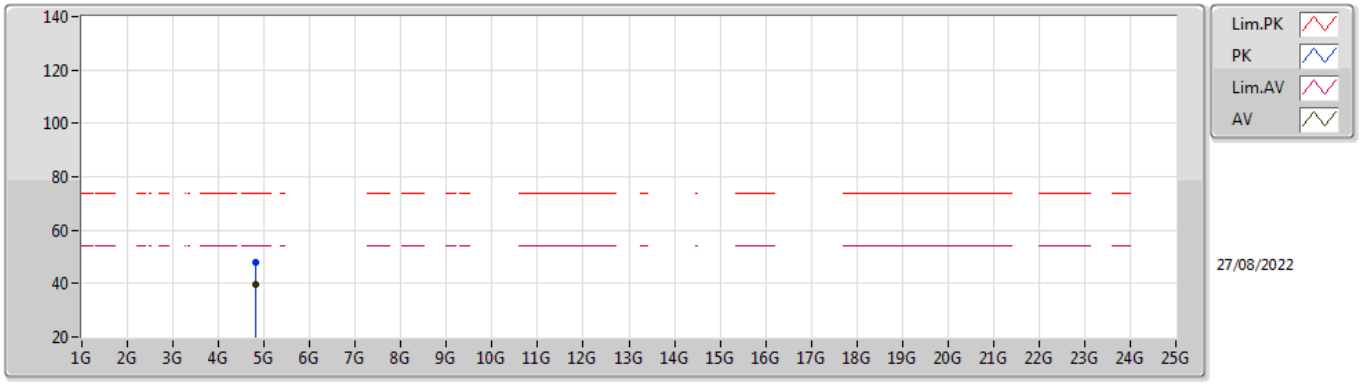


EUT Z_2TX
Setting 62
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	71.50	74.00	-2.50	40.33	3	Horizontal	75	1.59	-	28.38	2.79	-
AV	2.39G	53.92	54.00	-0.08	22.75	3	Horizontal	75	1.59	-	28.38	2.79	-
PK	2.4078G	111.40	Inf	-Inf	80.19	3	Horizontal	75	1.59	-	28.40	2.81	-
AV	2.4112G	105.86	Inf	-Inf	74.65	3	Horizontal	75	1.59	-	28.40	2.81	-

ax20_BF_Nss1,(MCS0)_2TX

2412MHz_TX

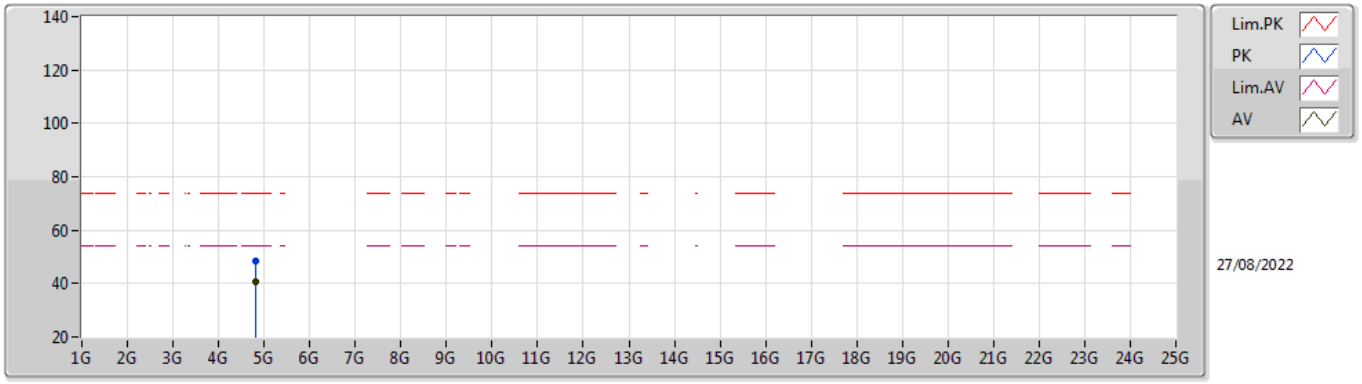


EUT Z_2TX
Setting 62
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.824G	48.06	74.00	-25.94	40.82	3	Vertical	52	1.00	-	32.94	5.10	30.80
AV	4.824G	39.73	54.00	-14.27	32.49	3	Vertical	52	1.00	-	32.94	5.10	30.80

ax20_BF_Nss1,(MCS0)_2TX

2412MHz_TX

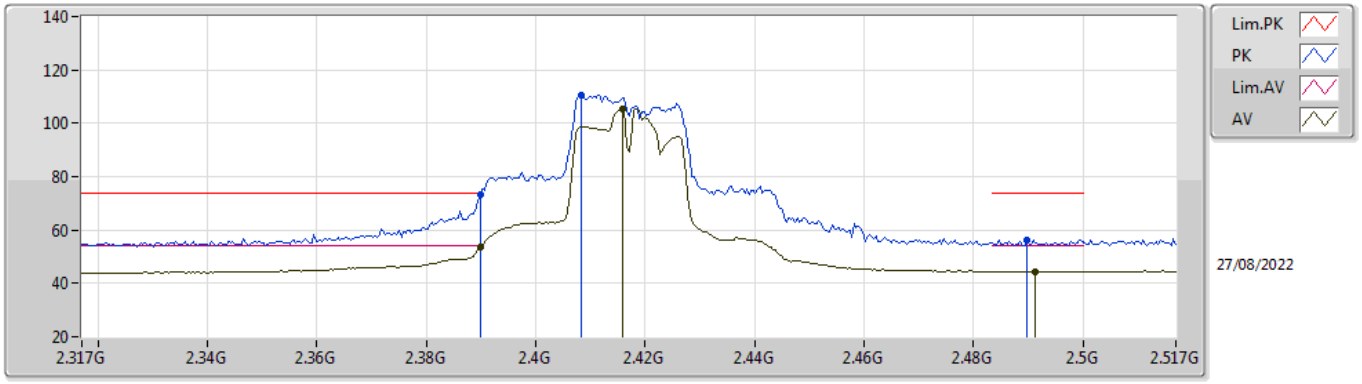


EUT Z_2TX
Setting 62
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82392G	48.43	74.00	-25.57	41.19	3	Horizontal	62	1.17	-	32.94	5.10	30.80
AV	4.8242G	40.80	54.00	-13.20	33.55	3	Horizontal	62	1.17	-	32.95	5.10	30.80

ax20_BF_Nss1,(MCS0)_2TX

2417MHz_TX

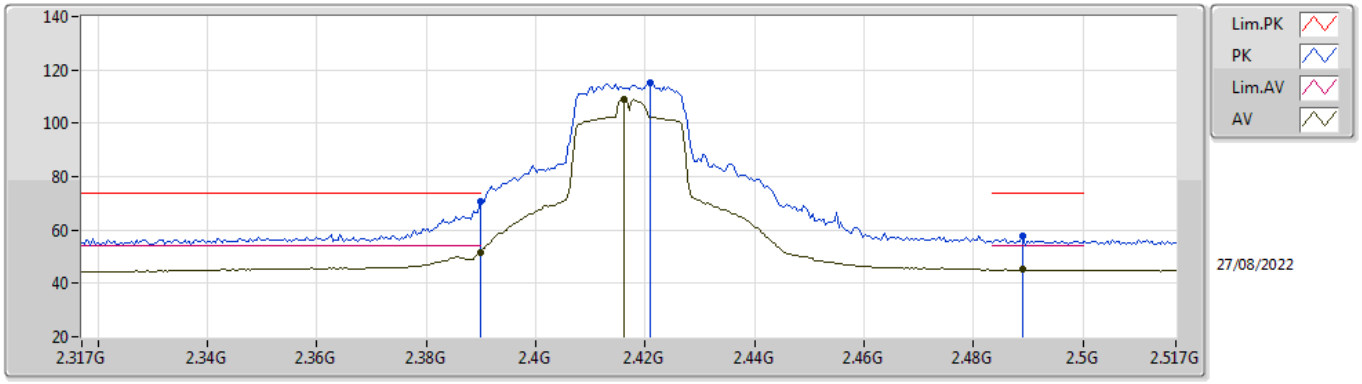


EUT Z_2TX
Setting 68
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	73.51	74.00	-0.49	42.34	3	Vertical	328	2.56	-	28.38	2.79	-
AV	2.3898G	53.39	54.00	-0.61	22.22	3	Vertical	328	2.56	-	28.38	2.79	-
PK	2.4082G	110.47	Inf	-Inf	79.26	3	Vertical	328	2.56	-	28.40	2.81	-
AV	2.4158G	105.36	Inf	-Inf	74.14	3	Vertical	328	2.56	-	28.40	2.82	-
PK	2.4898G	56.39	74.00	-17.61	24.94	3	Vertical	328	2.56	-	28.56	2.89	-
AV	2.4914G	44.51	54.00	-9.49	13.05	3	Vertical	328	2.56	-	28.57	2.89	-

ax20_BF_Nss1,(MCS0)_2TX

2417MHz_TX

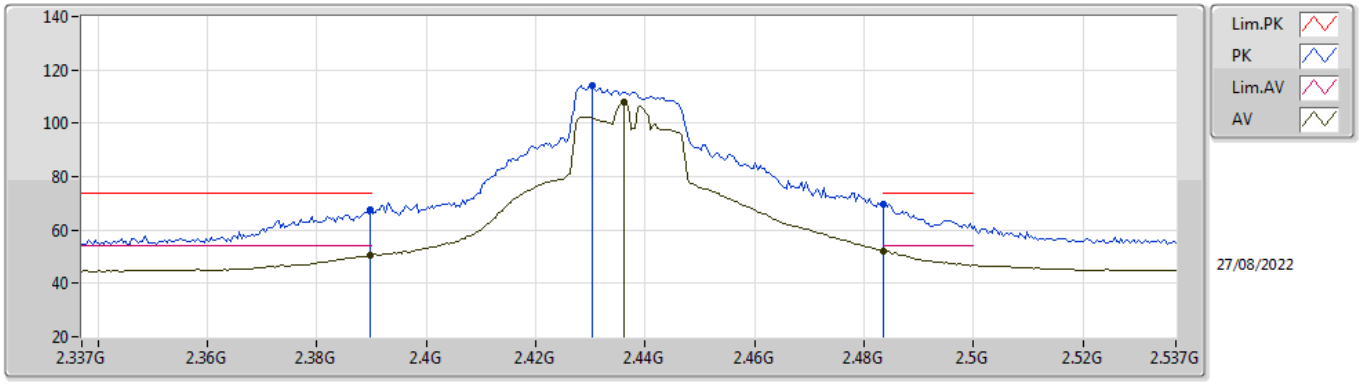


EUT Z_2TX
Setting 68
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	70.68	74.00	-3.32	39.51	3	Horizontal	299	1.02	-	28.38	2.79	-
AV	2.3898G	51.49	54.00	-2.51	20.32	3	Horizontal	299	1.02	-	28.38	2.79	-
PK	2.421G	114.99	Inf	-Inf	83.77	3	Horizontal	299	1.02	-	28.40	2.82	-
AV	2.4162G	109.16	Inf	-Inf	77.94	3	Horizontal	299	1.02	-	28.40	2.82	-
PK	2.489G	57.77	74.00	-16.23	26.32	3	Horizontal	299	1.02	-	28.56	2.89	-
AV	2.489G	45.19	54.00	-8.81	13.74	3	Horizontal	299	1.02	-	28.56	2.89	-

ax20_BF_Nss1,(MCS0)_2TX

2437MHz_TX

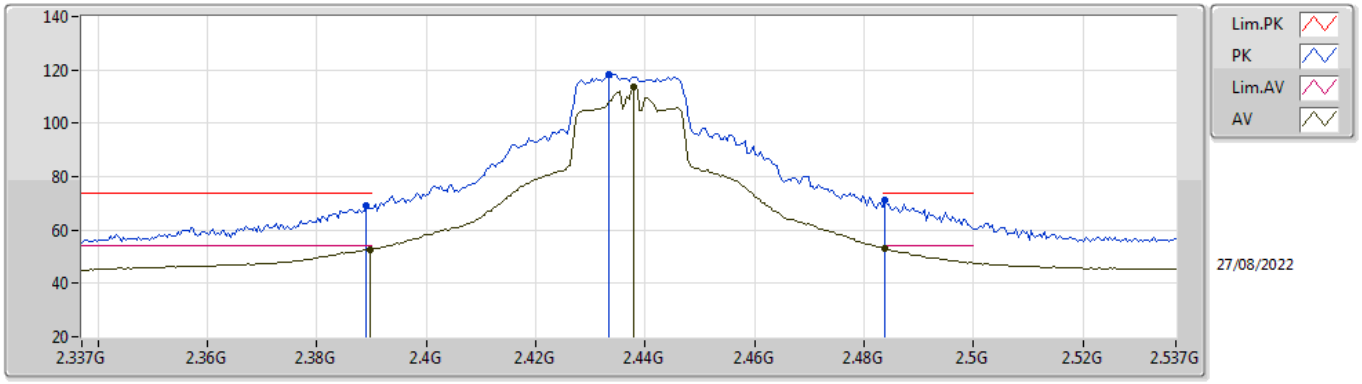


EUT Z_2TX
Setting 88
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	67.71	74.00	-6.29	36.54	3	Vertical	354	1.26	-	28.38	2.79	-
AV	2.3898G	50.65	54.00	-3.35	19.48	3	Vertical	354	1.26	-	28.38	2.79	-
PK	2.4302G	114.28	Inf	-Inf	83.05	3	Vertical	354	1.26	-	28.40	2.83	-
AV	2.4362G	107.94	Inf	-Inf	76.70	3	Vertical	354	1.26	-	28.40	2.84	-
PK	2.4835G	69.73	74.00	-4.27	38.32	3	Vertical	354	1.26	-	28.53	2.88	-
AV	2.4835G	52.24	54.00	-1.76	20.83	3	Vertical	354	1.26	-	28.53	2.88	-

ax20_BF_Nss1,(MCS0)_2TX

2437MHz_TX

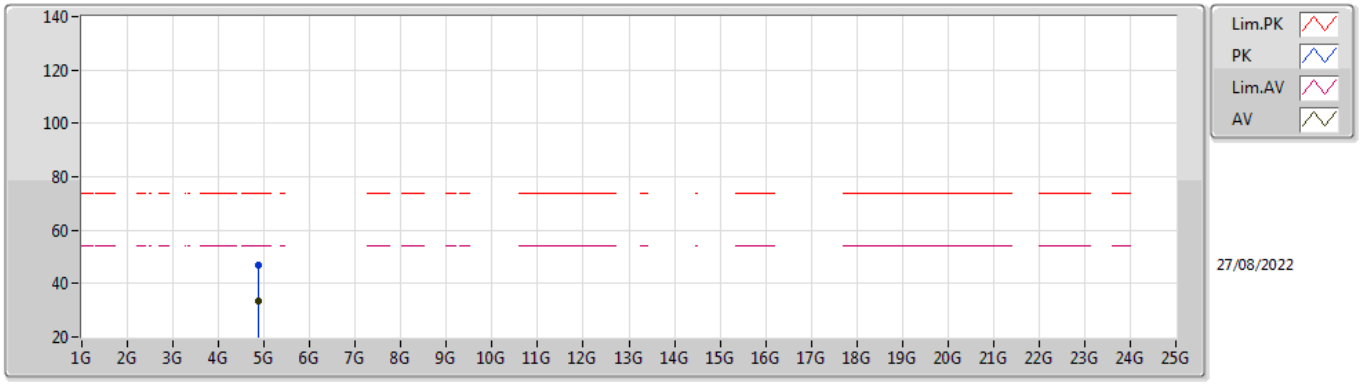


EUT Z_2TX
Setting 88
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	69.00	74.00	-5.00	37.83	3	Horizontal	296	1.00	-	28.38	2.79	-
AV	2.3898G	52.71	54.00	-1.29	21.54	3	Horizontal	296	1.00	-	28.38	2.79	-
PK	2.4334G	118.45	Inf	-Inf	87.22	3	Horizontal	296	1.00	-	28.40	2.83	-
AV	2.4378G	113.40	Inf	-Inf	82.16	3	Horizontal	296	1.00	-	28.40	2.84	-
PK	2.4838G	71.05	74.00	-2.95	39.63	3	Horizontal	296	1.00	-	28.54	2.88	-
AV	2.4838G	53.05	54.00	-0.95	21.63	3	Horizontal	296	1.00	-	28.54	2.88	-

ax20_BF_Nss1,(MCS0)_2TX

2437MHz_TX

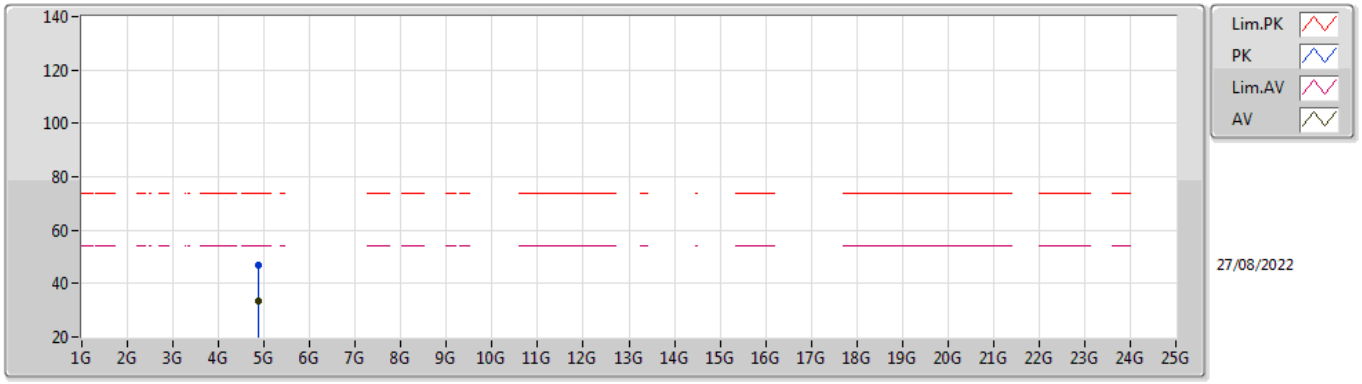


EUT Z_2TX
Setting 88
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87276G	46.90	74.00	-27.10	39.43	3	Vertical	319	2.09	-	33.15	5.10	30.78
AV	4.87812G	33.55	54.00	-20.45	26.07	3	Vertical	319	2.09	-	33.16	5.10	30.78

ax20_BF_Nss1,(MCS0)_2TX

2437MHz_TX

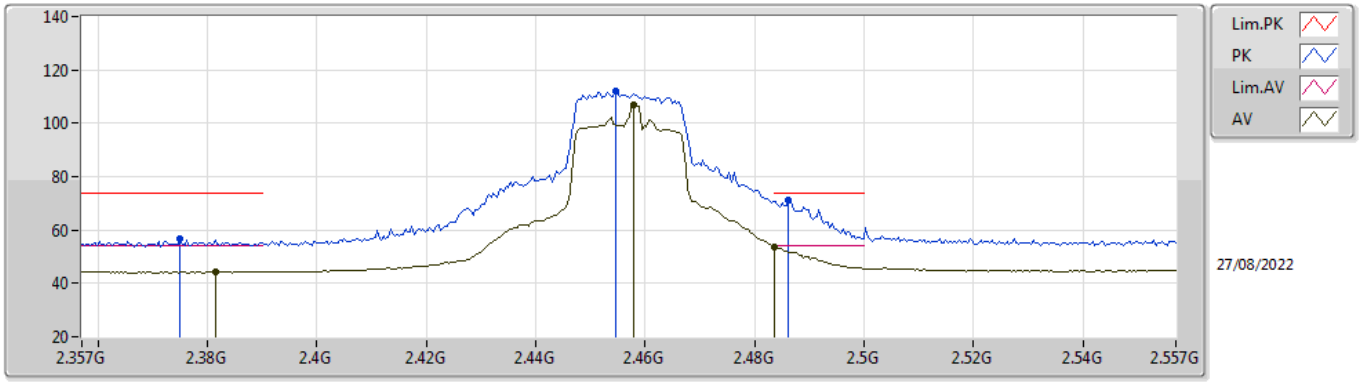


EUT Z_2TX
Setting 88
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87378G	46.99	74.00	-27.01	39.52	3	Horizontal	288	2.77	-	33.15	5.10	30.78
AV	4.87274G	33.45	54.00	-20.55	25.98	3	Horizontal	288	2.77	-	33.15	5.10	30.78

ax20_BF_Nss1,(MCS0)_2TX

2457MHz_TX

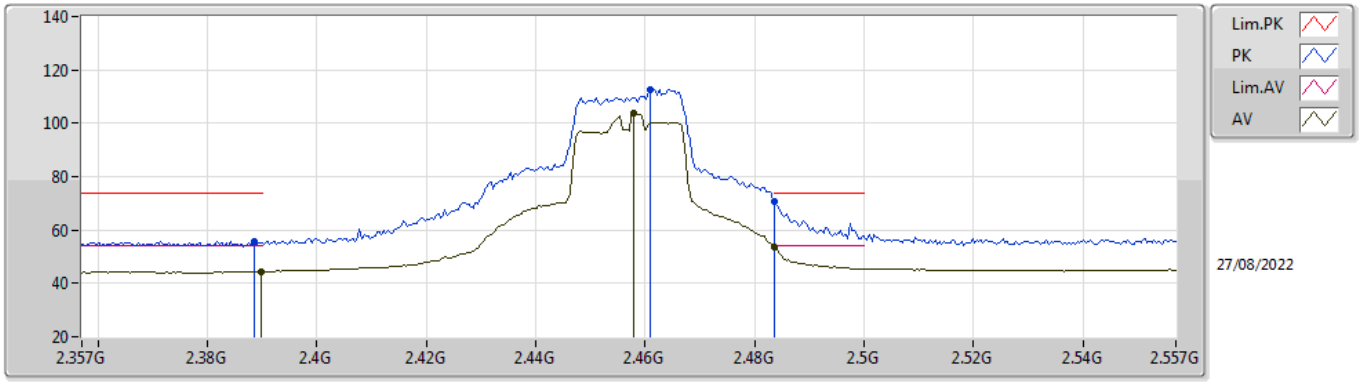


EUT Z_2TX
Setting 74
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.375G	56.62	74.00	-17.38	25.48	3	Vertical	323	3.00	-	28.35	2.79	-
AV	2.3814G	44.32	54.00	-9.68	13.17	3	Vertical	323	3.00	-	28.36	2.79	-
PK	2.4546G	112.01	Inf	-Inf	80.74	3	Vertical	323	3.00	-	28.42	2.85	-
AV	2.4578G	106.89	Inf	-Inf	75.60	3	Vertical	323	3.00	-	28.43	2.86	-
PK	2.4862G	71.41	74.00	-2.59	39.98	3	Vertical	323	3.00	-	28.54	2.89	-
AV	2.4835G	53.66	54.00	-0.34	22.25	3	Vertical	323	3.00	-	28.53	2.88	-

ax20_BF_Nss1,(MCS0)_2TX

2457MHz_TX

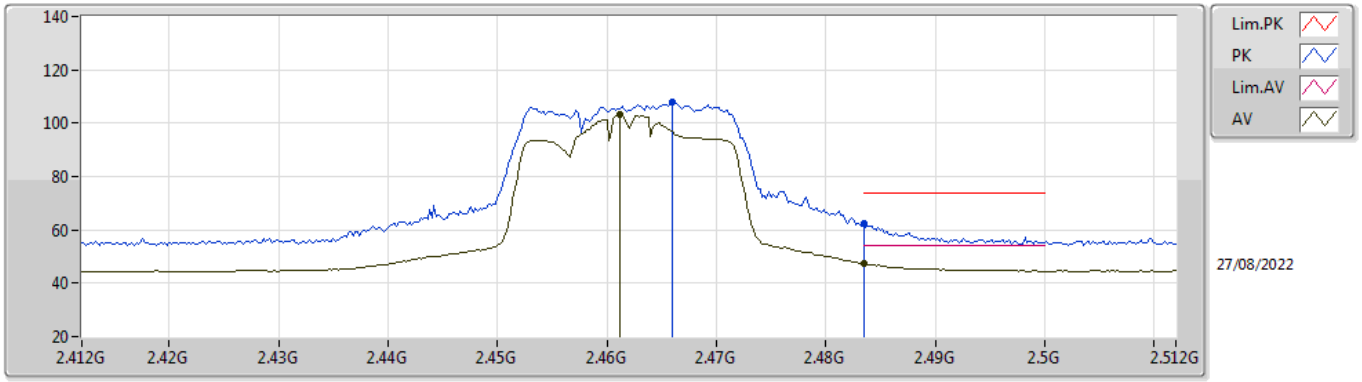


EUT Z_2TX
Setting 74
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	55.61	74.00	-18.39	24.44	3	Horizontal	323	3.00	-	28.38	2.79	-
AV	2.3898G	44.45	54.00	-9.55	13.28	3	Horizontal	323	3.00	-	28.38	2.79	-
PK	2.461G	112.79	Inf	-Inf	81.49	3	Horizontal	323	3.00	-	28.44	2.86	-
AV	2.4578G	103.87	Inf	-Inf	72.58	3	Horizontal	323	3.00	-	28.43	2.86	-
PK	2.4835G	70.91	74.00	-3.09	39.50	3	Horizontal	323	3.00	-	28.53	2.88	-
AV	2.4835G	53.70	54.00	-0.30	22.29	3	Horizontal	323	3.00	-	28.53	2.88	-

ax20_BF_Nss1,(MCS0)_2TX

2462MHz_TX

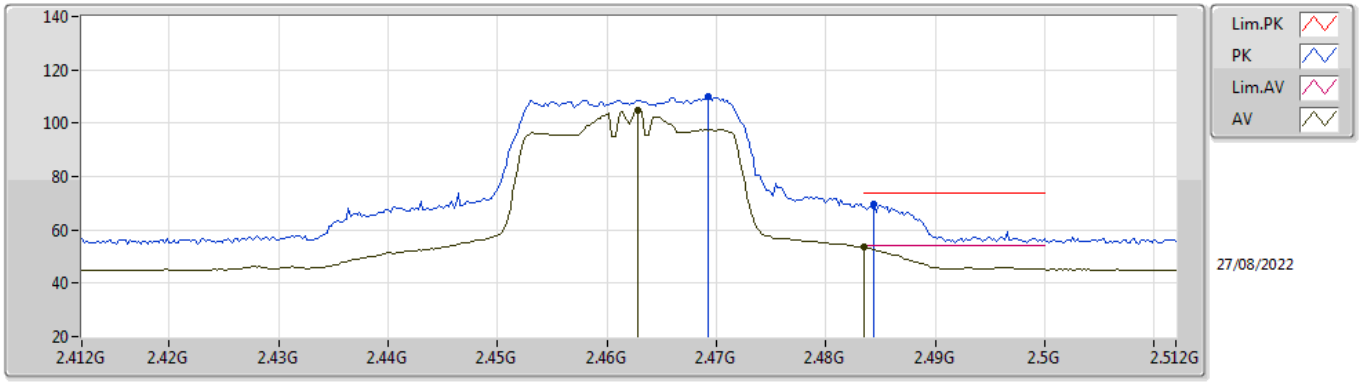


EUT Z_2TX
Setting 54
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.466G	107.87	Inf	-Inf	76.54	3	Vertical	331	3.00	-	28.46	2.87	-
AV	2.4612G	103.29	Inf	-Inf	71.99	3	Vertical	331	3.00	-	28.44	2.86	-
PK	2.4835G	62.51	74.00	-11.49	31.10	3	Vertical	331	3.00	-	28.53	2.88	-
AV	2.4835G	47.30	54.00	-6.70	15.89	3	Vertical	331	3.00	-	28.53	2.88	-

ax20_BF_Nss1,(MCS0)_2TX

2462MHz_TX

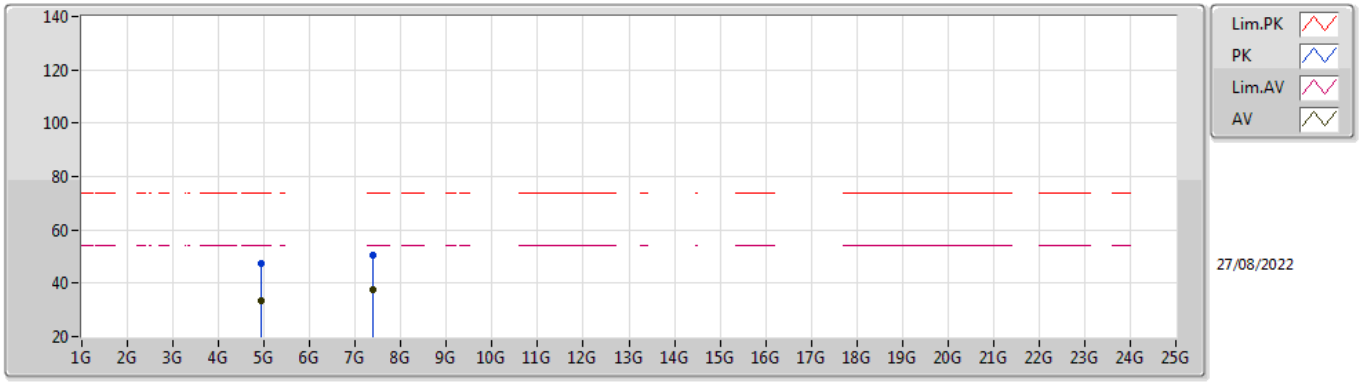


EUT Z_2TX
Setting 54
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4692G	109.93	Inf	-Inf	78.58	3	Horizontal	305	1.39	-	28.48	2.87	-
AV	2.4628G	104.81	Inf	-Inf	73.50	3	Horizontal	305	1.39	-	28.45	2.86	-
PK	2.4844G	69.46	74.00	-4.54	38.04	3	Horizontal	305	1.39	-	28.54	2.88	-
AV	2.4835G	53.58	54.00	-0.42	22.17	3	Horizontal	305	1.39	-	28.53	2.88	-

ax20_BF_Nss1,(MCS0)_2TX

2462MHz_TX

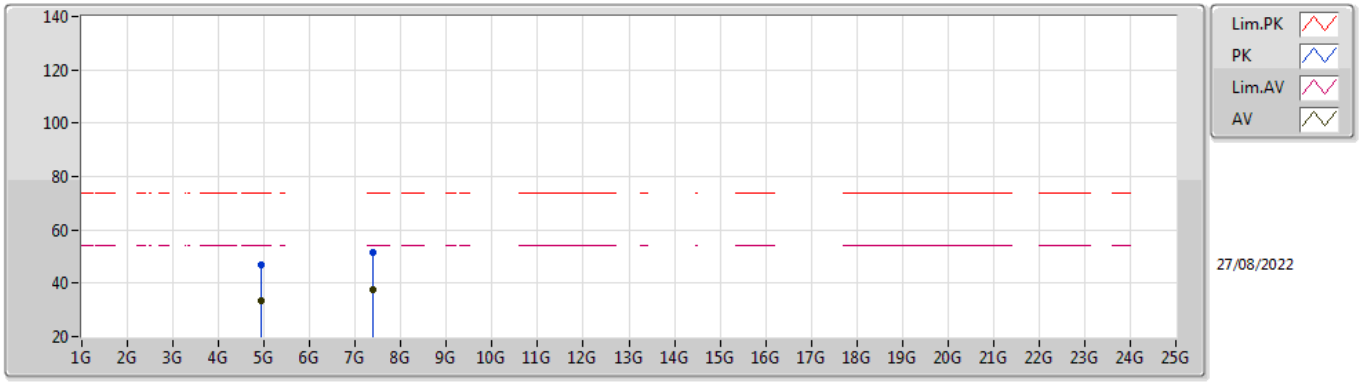


EUT Z_2TX
Setting 54
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9251G	47.44	74.00	-26.56	39.85	3	Vertical	328	2.46	-	33.25	5.10	30.76
AV	4.9276G	33.57	54.00	-20.43	25.97	3	Vertical	328	2.46	-	33.26	5.10	30.76
PK	7.38224G	50.41	74.00	-23.59	39.68	3	Vertical	310	2.43	-	36.50	6.19	31.96
AV	7.39048G	37.56	54.00	-16.44	26.83	3	Vertical	310	2.43	-	36.50	6.20	31.97

ax20_BF_Nss1,(MCS0)_2TX

2462MHz_TX

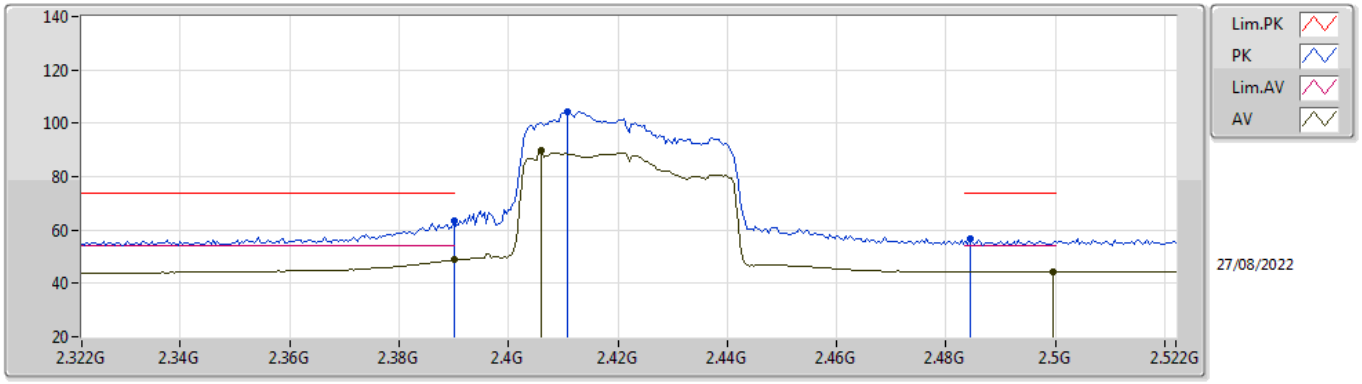


EUT Z_2TX
Setting 54
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9232G	47.06	74.00	-26.94	39.47	3	Horizontal	54	1.27	-	33.25	5.10	30.76
AV	4.92856G	33.51	54.00	-20.49	25.91	3	Horizontal	54	1.27	-	33.26	5.10	30.76
PK	7.38842G	51.40	74.00	-22.60	40.68	3	Horizontal	84	1.56	-	36.50	6.19	31.97
AV	7.39024G	37.55	54.00	-16.45	26.82	3	Horizontal	84	1.56	-	36.50	6.20	31.97

ax40_BF_Nss1,(MCS0)_2TX

2422MHz_TX

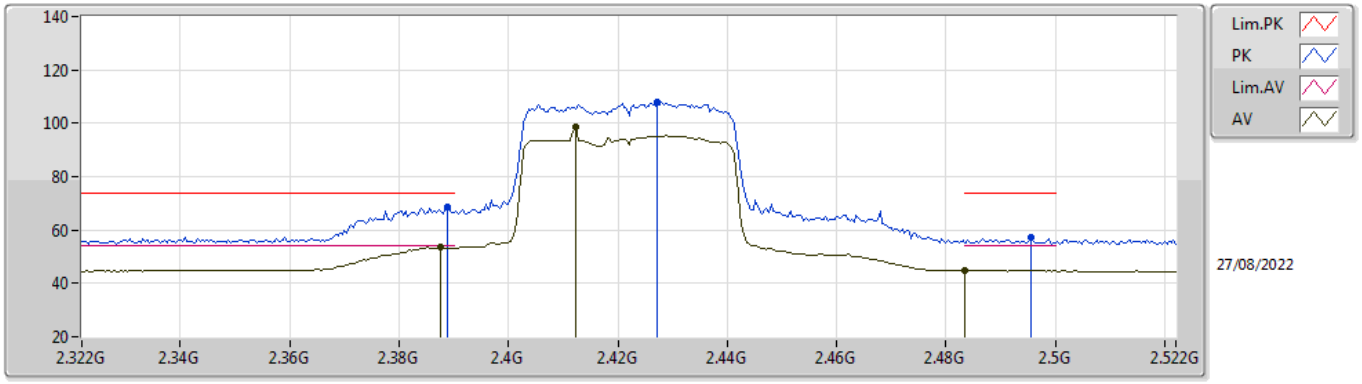


EUT Z_2TX
Setting 50
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	63.58	74.00	-10.42	32.41	3	Vertical	327	2.86	-	28.38	2.79	-
AV	2.39G	48.77	54.00	-5.23	17.60	3	Vertical	327	2.86	-	28.38	2.79	-
PK	2.4108G	104.40	Inf	-Inf	73.19	3	Vertical	327	2.86	-	28.40	2.81	-
AV	2.406G	89.99	Inf	-Inf	58.78	3	Vertical	327	2.86	-	28.40	2.81	-
PK	2.4844G	56.71	74.00	-17.29	25.29	3	Vertical	327	2.86	-	28.54	2.88	-
AV	2.4996G	44.42	54.00	-9.58	12.92	3	Vertical	327	2.86	-	28.60	2.90	-

ax40_BF_Nss1,(MCS0)_2TX

2422MHz_TX

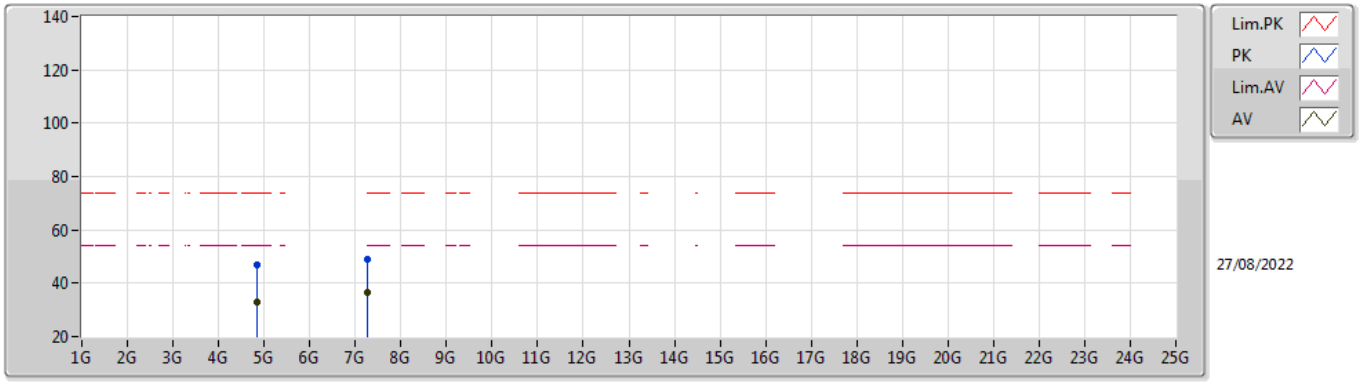


EUT Z_2TX
Setting 50
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3888G	68.64	74.00	-5.36	37.47	3	Horizontal	143	1.40	-	28.38	2.79	-
AV	2.3876G	53.80	54.00	-0.20	22.63	3	Horizontal	143	1.40	-	28.38	2.79	-
PK	2.4272G	107.98	Inf	-Inf	76.75	3	Horizontal	143	1.40	-	28.40	2.83	-
AV	2.4124G	98.79	Inf	-Inf	67.58	3	Horizontal	143	1.40	-	28.40	2.81	-
PK	2.4956G	57.35	74.00	-16.65	25.87	3	Horizontal	143	1.40	-	28.58	2.90	-
AV	2.4835G	44.91	54.00	-9.09	13.50	3	Horizontal	143	1.40	-	28.53	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2422MHz_TX

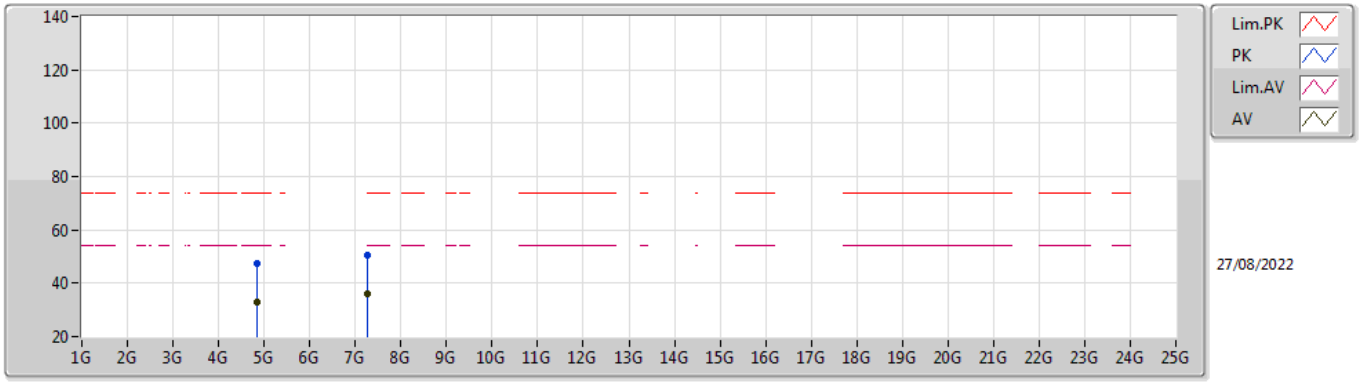


EUT Z_2TX
Setting 50
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84336G	46.89	74.00	-27.11	39.53	3	Vertical	107	2.19	-	33.06	5.10	30.80
AV	4.84804G	33.00	54.00	-21.00	25.60	3	Vertical	107	2.19	-	33.09	5.10	30.79
PK	7.26696G	49.20	74.00	-24.80	38.69	3	Vertical	147	3.00	-	36.27	6.13	31.89
AV	7.26284G	36.38	54.00	-17.62	25.89	3	Vertical	147	3.00	-	36.25	6.13	31.89

ax40_BF_Nss1,(MCS0)_2TX

2422MHz_TX

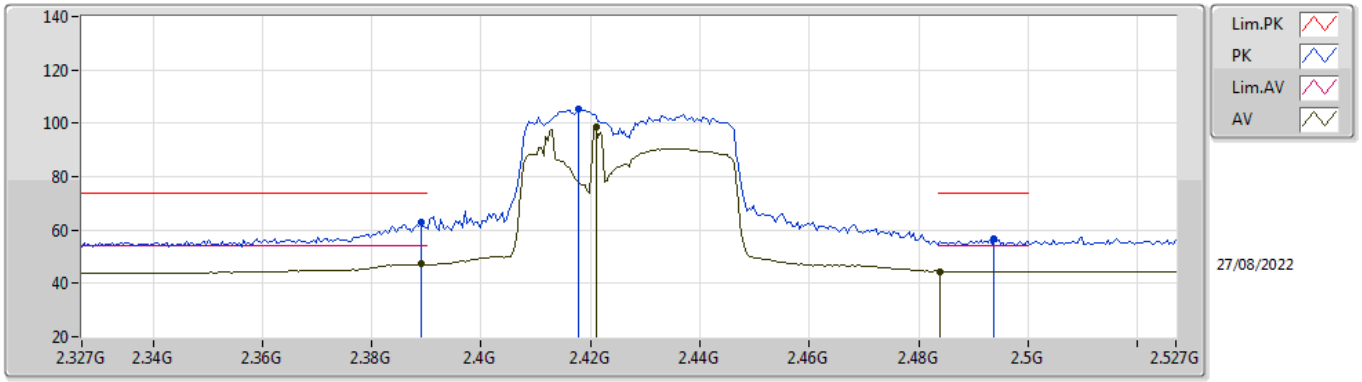


EUT Z_2TX
Setting 50
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8465G	47.54	74.00	-26.46	40.15	3	Horizontal	61	2.14	-	33.08	5.10	30.79
AV	4.84372G	33.02	54.00	-20.98	25.66	3	Horizontal	61	2.14	-	33.06	5.10	30.80
PK	7.26664G	50.29	74.00	-23.71	39.78	3	Horizontal	199	2.16	-	36.27	6.13	31.89
AV	7.26322G	36.25	54.00	-17.75	25.76	3	Horizontal	199	2.16	-	36.25	6.13	31.89

ax40_BF_Nss1,(MCS0)_2TX

2427MHz_TX

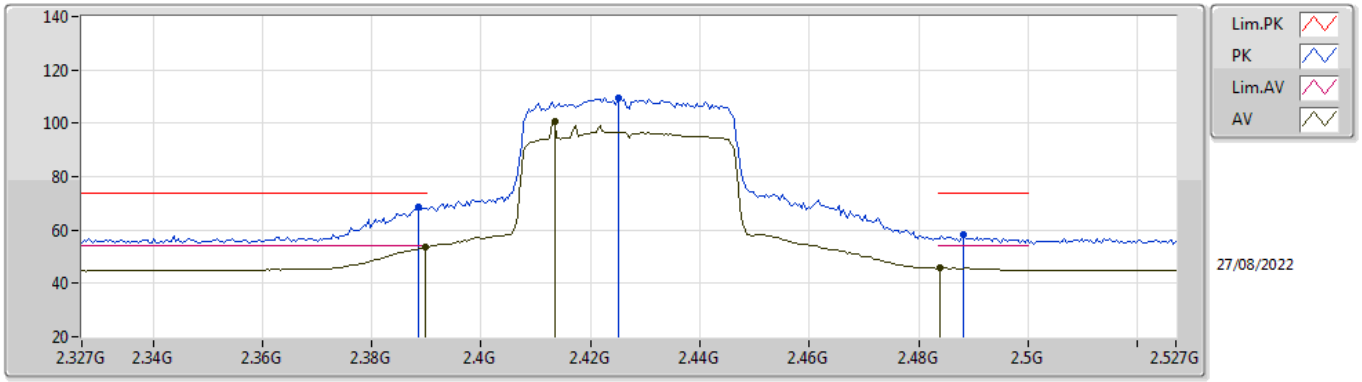


EUT Z_2TX
Setting 54
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	62.81	74.00	-11.19	31.64	3	Vertical	329	2.56	-	28.38	2.79	-
AV	2.389G	47.21	54.00	-6.79	16.04	3	Vertical	329	2.56	-	28.38	2.79	-
PK	2.4178G	105.15	Inf	-Inf	73.93	3	Vertical	329	2.56	-	28.40	2.82	-
AV	2.421G	98.77	Inf	-Inf	67.55	3	Vertical	329	2.56	-	28.40	2.82	-
PK	2.4938G	56.71	74.00	-17.29	25.24	3	Vertical	329	2.56	-	28.58	2.89	-
AV	2.4838G	44.43	54.00	-9.57	13.01	3	Vertical	329	2.56	-	28.54	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2427MHz_TX

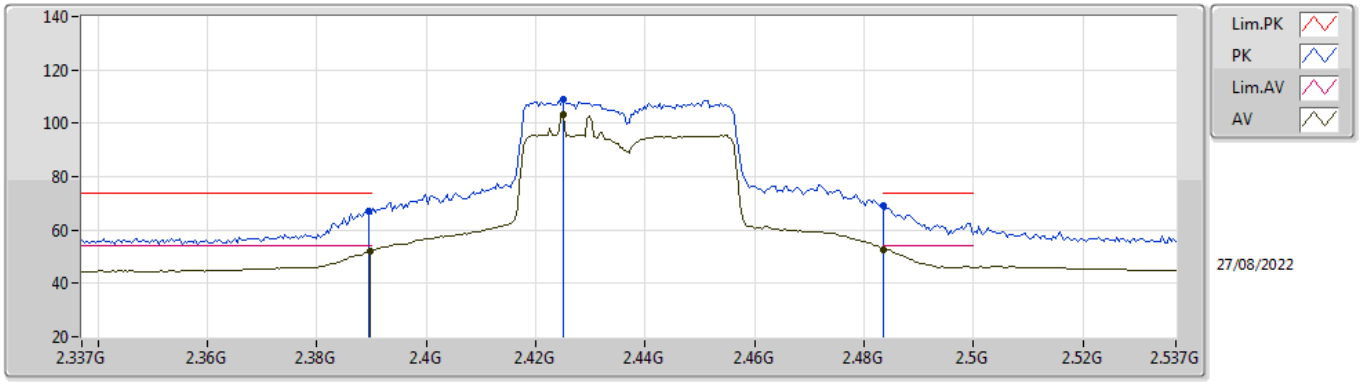


EUT Z_2TX
Setting 54
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	68.40	74.00	-5.60	37.23	3	Horizontal	144	1.10	-	28.38	2.79	-
AV	2.3898G	53.56	54.00	-0.44	22.39	3	Horizontal	144	1.10	-	28.38	2.79	-
PK	2.425G	109.58	Inf	-Inf	78.36	3	Horizontal	144	1.10	-	28.40	2.82	-
AV	2.4134G	100.58	Inf	-Inf	69.37	3	Horizontal	144	1.10	-	28.40	2.81	-
PK	2.4882G	58.17	74.00	-15.83	26.73	3	Horizontal	144	1.10	-	28.55	2.89	-
AV	2.4838G	45.79	54.00	-8.21	14.37	3	Horizontal	144	1.10	-	28.54	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2437MHz_TX

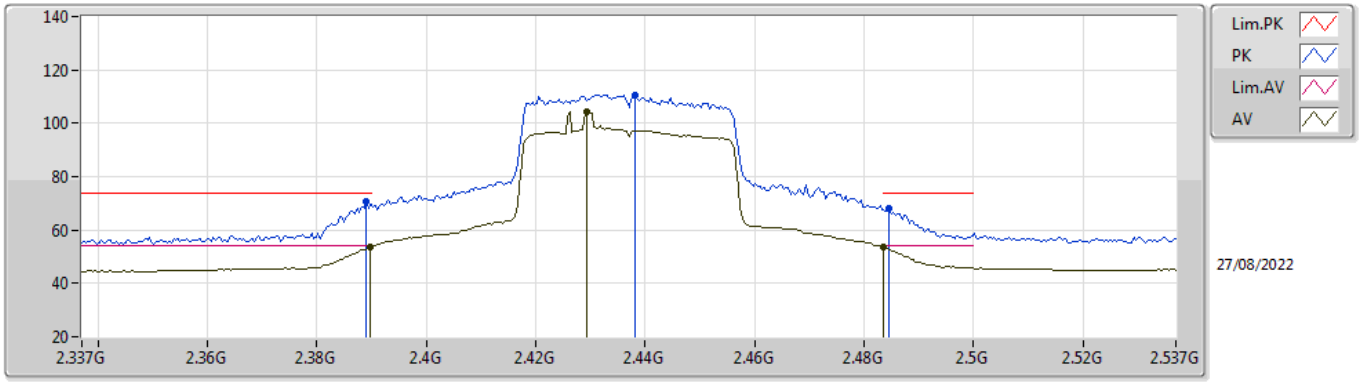


EUT Z_2TX
Setting 63
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	67.20	74.00	-6.80	36.03	3	Vertical	230	1.07	-	28.38	2.79	-
AV	2.3898G	52.22	54.00	-1.78	21.05	3	Vertical	230	1.07	-	28.38	2.79	-
PK	2.425G	108.73	Inf	-Inf	77.51	3	Vertical	230	1.07	-	28.40	2.82	-
AV	2.425G	103.09	Inf	-Inf	71.87	3	Vertical	230	1.07	-	28.40	2.82	-
PK	2.4835G	69.34	74.00	-4.66	37.93	3	Vertical	230	1.07	-	28.53	2.88	-
AV	2.4835G	52.82	54.00	-1.18	21.41	3	Vertical	230	1.07	-	28.53	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2437MHz_TX

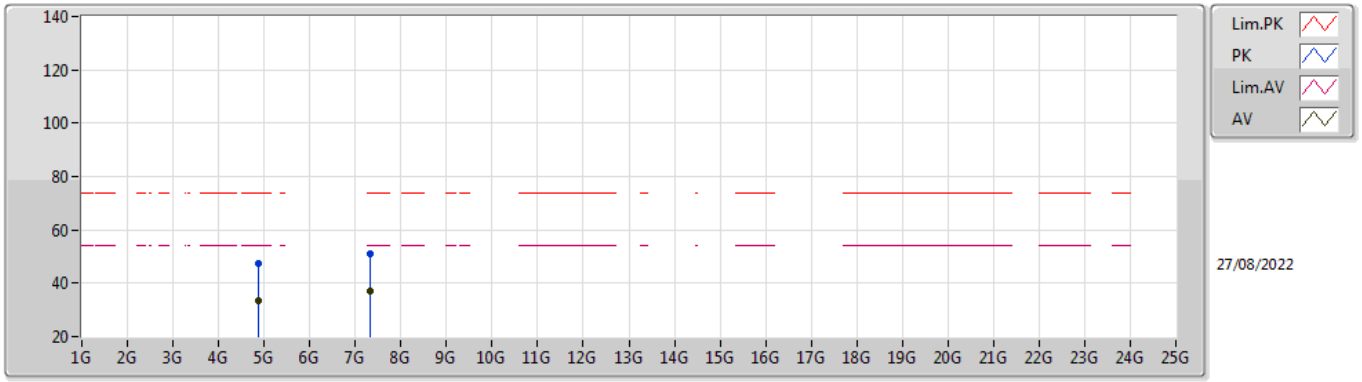


EUT Z_2TX
Setting 63
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	70.53	74.00	-3.47	39.36	3	Horizontal	331	1.29	-	28.38	2.79	-
AV	2.3898G	53.70	54.00	-0.30	22.53	3	Horizontal	331	1.29	-	28.38	2.79	-
PK	2.4382G	110.40	Inf	-Inf	79.16	3	Horizontal	331	1.29	-	28.40	2.84	-
AV	2.4294G	104.56	Inf	-Inf	73.33	3	Horizontal	331	1.29	-	28.40	2.83	-
PK	2.4846G	68.12	74.00	-5.88	36.70	3	Horizontal	331	1.29	-	28.54	2.88	-
AV	2.4835G	53.52	54.00	-0.48	22.11	3	Horizontal	331	1.29	-	28.53	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2437MHz_TX

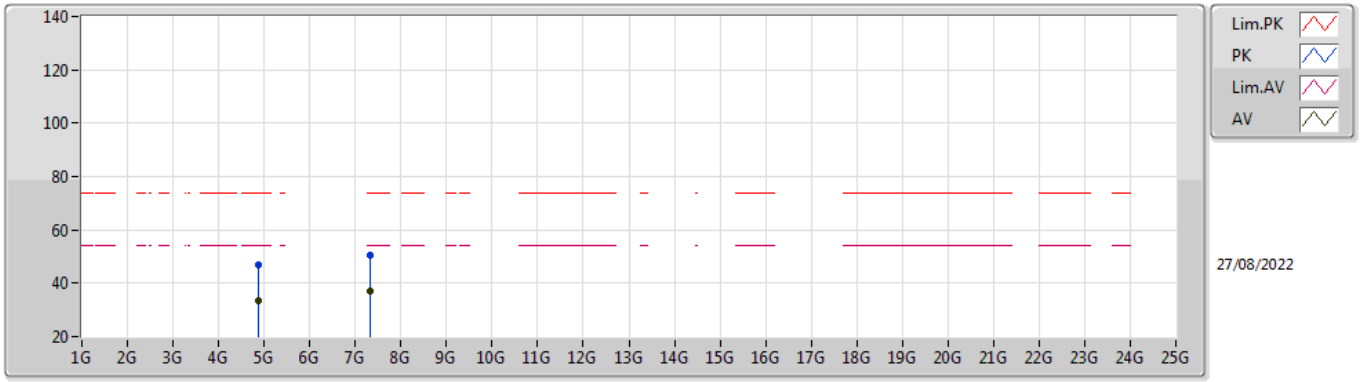


EUT Z_2TX
Setting 63
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87756G	47.44	74.00	-26.56	39.96	3	Vertical	343	1.73	-	33.16	5.10	30.78
AV	4.87746G	33.30	54.00	-20.70	25.83	3	Vertical	343	1.73	-	33.15	5.10	30.78
PK	7.31562G	50.86	74.00	-23.14	40.19	3	Vertical	71	1.09	-	36.43	6.16	31.92
AV	7.31276G	37.00	54.00	-17.00	26.33	3	Vertical	71	1.09	-	36.43	6.16	31.92

ax40_BF_Nss1,(MCS0)_2TX

2437MHz_TX

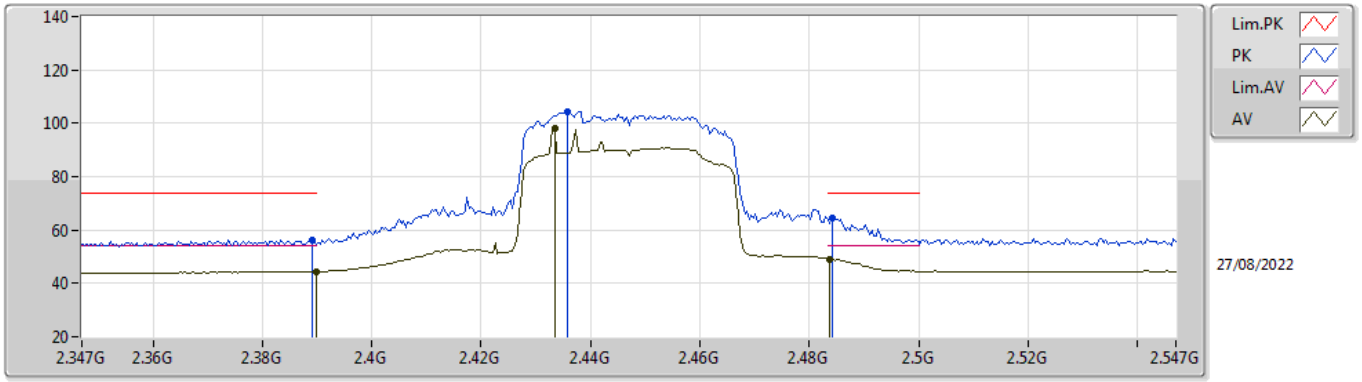


EUT Z_2TX
Setting 63
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8748G	47.02	74.00	-26.98	39.55	3	Horizontal	262	1.01	-	33.15	5.10	30.78
AV	4.87314G	33.29	54.00	-20.71	25.82	3	Horizontal	262	1.01	-	33.15	5.10	30.78
PK	7.3143G	50.75	74.00	-23.25	40.08	3	Horizontal	98	2.17	-	36.43	6.16	31.92
AV	7.31484G	36.93	54.00	-17.07	26.26	3	Horizontal	98	2.17	-	36.43	6.16	31.92

ax40_BF_Nss1,(MCS0)_2TX

2447MHz_TX

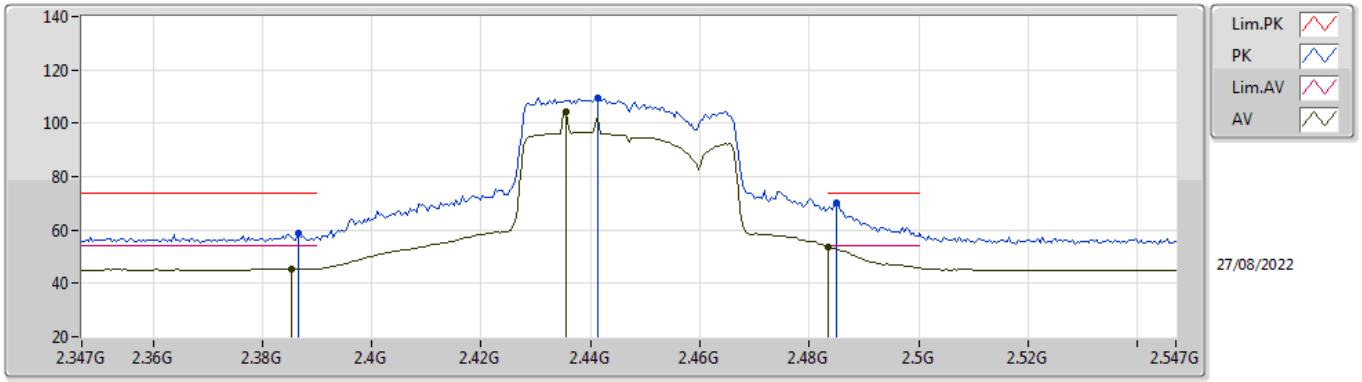


EUT Z_2TX
Setting 56
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.389G	56.32	74.00	-17.68	25.15	3	Vertical	328	2.51	-	28.38	2.79	-
AV	2.3898G	44.42	54.00	-9.58	13.25	3	Vertical	328	2.51	-	28.38	2.79	-
PK	2.4358G	104.41	Inf	-Inf	73.17	3	Vertical	328	2.51	-	28.40	2.84	-
AV	2.4334G	98.31	Inf	-Inf	67.08	3	Vertical	328	2.51	-	28.40	2.83	-
PK	2.4842G	64.51	74.00	-9.49	33.09	3	Vertical	328	2.51	-	28.54	2.88	-
AV	2.4838G	49.16	54.00	-4.84	17.74	3	Vertical	328	2.51	-	28.54	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2447MHz_TX

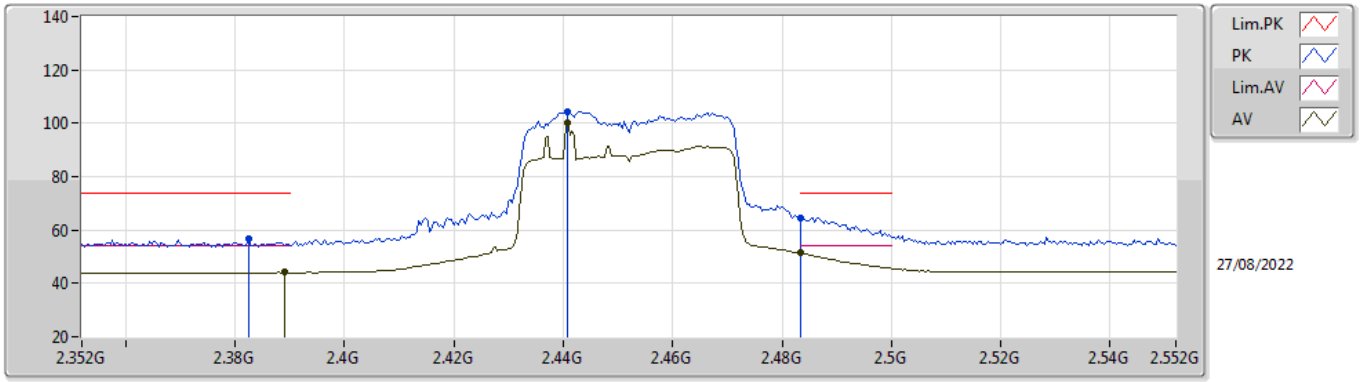


EUT Z_2TX
Setting 56
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3866G	58.90	74.00	-15.10	27.74	3	Horizontal	140	1.00	-	28.37	2.79	-
AV	2.3854G	45.58	54.00	-8.42	14.42	3	Horizontal	140	1.00	-	28.37	2.79	-
PK	2.4414G	109.53	Inf	-Inf	78.29	3	Horizontal	140	1.00	-	28.40	2.84	-
AV	2.4354G	104.43	Inf	-Inf	73.19	3	Horizontal	140	1.00	-	28.40	2.84	-
PK	2.485G	70.18	74.00	-3.82	38.75	3	Horizontal	140	1.00	-	28.54	2.89	-
AV	2.4835G	53.69	54.00	-0.31	22.28	3	Horizontal	140	1.00	-	28.53	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2452MHz_TX

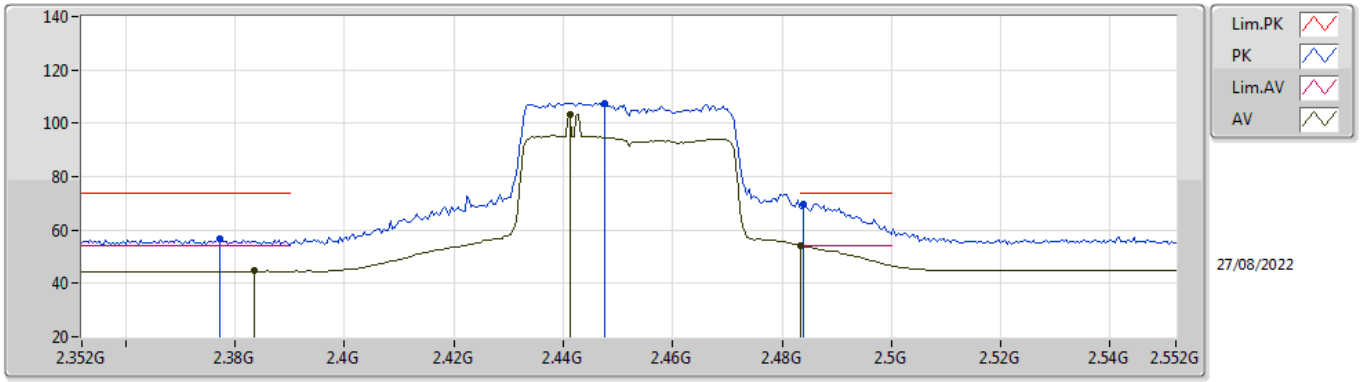


EUT Z_2TX
Setting 53
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3824G	56.90	74.00	-17.10	25.75	3	Vertical	205	2.47	-	28.36	2.79	-
AV	2.3892G	44.09	54.00	-9.91	12.92	3	Vertical	205	2.47	-	28.38	2.79	-
PK	2.4408G	104.31	Inf	-Inf	73.07	3	Vertical	205	2.47	-	28.40	2.84	-
AV	2.4408G	100.13	Inf	-Inf	68.89	3	Vertical	205	2.47	-	28.40	2.84	-
PK	2.4835G	64.58	74.00	-9.42	33.17	3	Vertical	205	2.47	-	28.53	2.88	-
AV	2.4835G	51.31	54.00	-2.69	19.90	3	Vertical	205	2.47	-	28.53	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2452MHz_TX

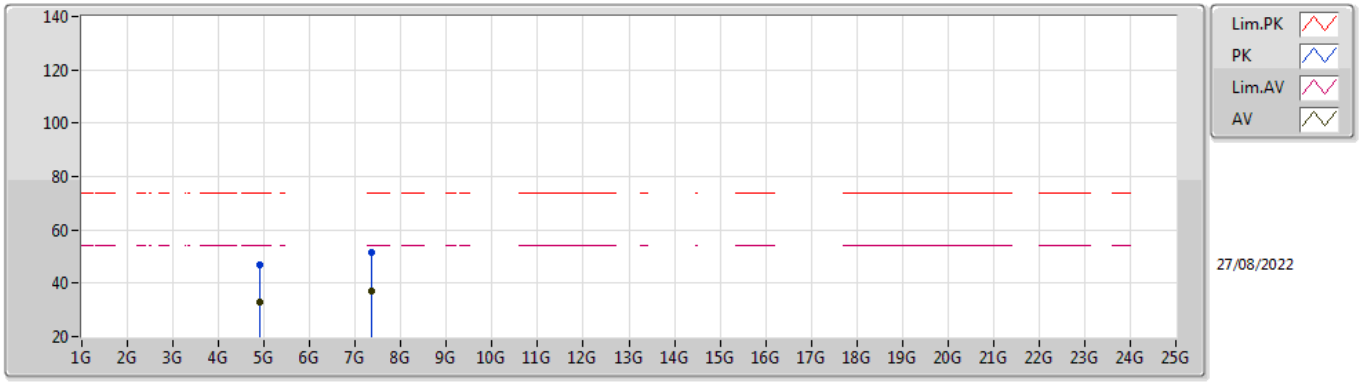


EUT Z_2TX
Setting 53
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3772G	56.66	74.00	-17.34	25.52	3	Horizontal	330	1.25	-	28.35	2.79	-
AV	2.3836G	44.63	54.00	-9.37	13.47	3	Horizontal	330	1.25	-	28.37	2.79	-
PK	2.4476G	107.61	Inf	-Inf	76.36	3	Horizontal	330	1.25	-	28.40	2.85	-
AV	2.4412G	103.35	Inf	-Inf	72.11	3	Horizontal	330	1.25	-	28.40	2.84	-
PK	2.484G	69.91	74.00	-4.09	38.49	3	Horizontal	330	1.25	-	28.54	2.88	-
AV	2.4835G	53.98	54.00	-0.02	22.57	3	Horizontal	330	1.25	-	28.53	2.88	-

ax40_BF_Nss1,(MCS0)_2TX

2452MHz_TX

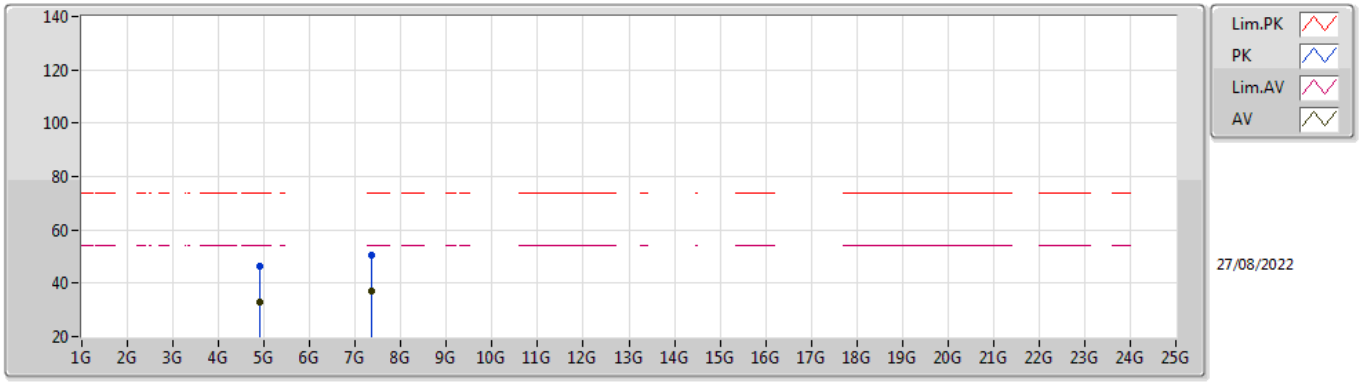


EUT Z_2TX
Setting 53
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90748G	47.08	74.00	-26.92	39.54	3	Vertical	328	1.20	-	33.21	5.10	30.77
AV	4.90556G	32.88	54.00	-21.12	25.34	3	Vertical	328	1.20	-	33.21	5.10	30.77
PK	7.35926G	51.31	74.00	-22.69	40.58	3	Vertical	326	1.30	-	36.50	6.18	31.95
AV	7.3597G	37.03	54.00	-16.97	26.30	3	Vertical	326	1.30	-	36.50	6.18	31.95

ax40_BF_Nss1,(MCS0)_2TX

2452MHz_TX



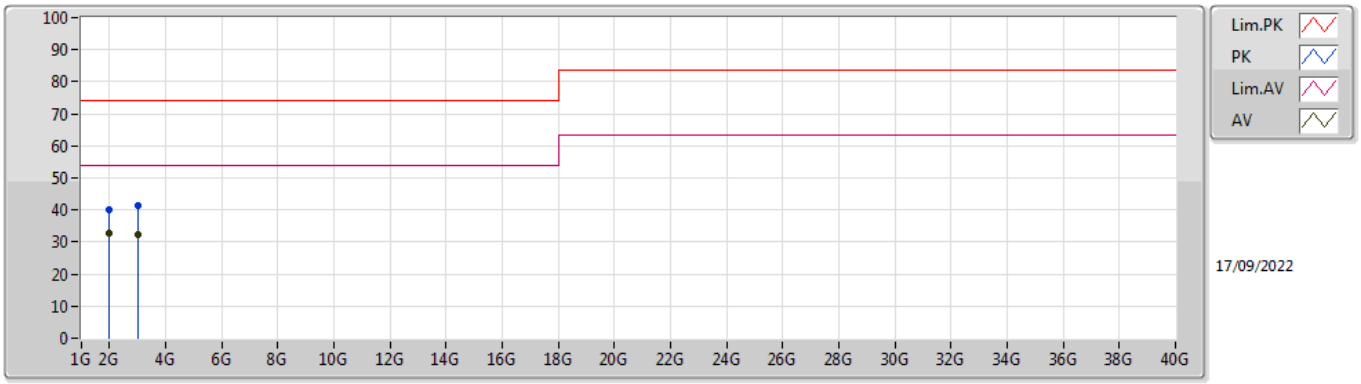
EUT Z_2TX
Setting 53
02-F-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90328G	46.48	74.00	-27.52	38.94	3	Horizontal	27	1.81	-	33.21	5.10	30.77
AV	4.90304G	32.95	54.00	-21.05	25.41	3	Horizontal	27	1.81	-	33.21	5.10	30.77
PK	7.35664G	50.68	74.00	-23.32	39.95	3	Horizontal	255	1.57	-	36.50	6.18	31.95
AV	7.35222G	37.00	54.00	-17.00	26.26	3	Horizontal	255	1.57	-	36.50	6.18	31.94

Summary

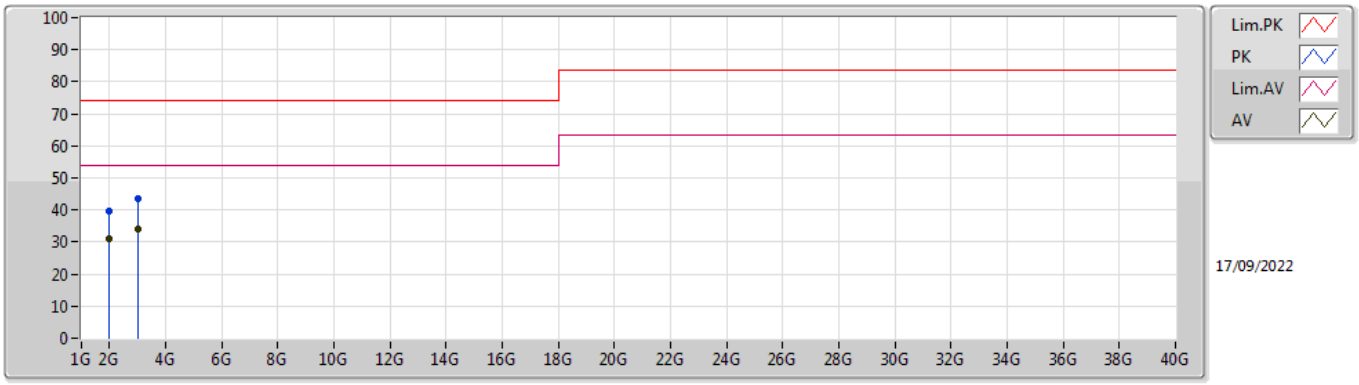
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.99979G	34.03	54.00	-19.97	Horizontal

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	2.00007G	39.94	74.00	-34.06	-5.29	3	Vertical	0	1.39	-	45.23	26.40	4.70	36.39
AV	1.99981G	32.57	54.00	-21.43	-5.29	3	Vertical	0	1.39	"Worst"	37.86	26.40	4.70	36.39
PK	3.00015G	41.50	74.00	-32.50	-1.00	3	Vertical	200	1.00	-	42.50	29.30	5.70	36.00
AV	2.99976G	32.52	54.00	-21.48	-1.00	3	Vertical	200	1.00	-	33.52	29.30	5.70	36.00

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.9999G	39.80	74.00	-34.20	-5.29	3	Horizontal	140	1.00	-	45.09	26.40	4.70	36.39
AV	1.9998G	31.17	54.00	-22.83	-5.29	3	Horizontal	140	1.00	-	36.46	26.40	4.70	36.39
PK	3.00016G	43.33	74.00	-30.67	-1.00	3	Horizontal	182	1.77	-	44.33	29.30	5.70	36.00
AV	2.99979G	34.03	54.00	-19.97	-1.00	3	Horizontal	182	1.77	"Worst"	35.03	29.30	5.70	36.00