

FCC Radio Test Report

Contains FCC ID : RI7LN920
FCC ID : UDX-600173020
Equipment : Z4C Teleworker Gateway
Brand Name : CISCO
Model Name : Z4C-HW
Applicant : Cisco Systems, Inc.
170 West Tasman Drive San Jose, CA
95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive San Jose, CA
95134 USA
Standard : 47 CFR FCC Part 15.247

The product was received on May 08, 2023, and testing was started from May 11, 2023 and completed on Jun. 21, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
FR350604AC	01	Initial issue of report	Jul. 04, 2023
FR350604AC	02	Directional gain information was added This report is the latest version replacing for the report issued on Jul. 04, 2023	Aug. 10, 2023

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:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Barry Hsiao

Report Producer: Debby Hung

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]

Non-Beamforming

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	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Beamforming

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11ax HEW20-BF	20	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.
- ♦ 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.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	SENAO	5718A0722300	PIFA	I-Pex	2.4G+5G
2	SENAO	5718A0723300	PIFA	I-Pex	2.4G+5G
3	AWAN	7102A0563000	Dipole	Reverse SMA	WWAN
4	AWAN	7102A0563000	Dipole	Reverse SMA	WWAN

Ant.	Port	Gain (dBi)	
		2.4G	5G
1	1	3.93	5.55
2	2	4.40	5.49

Ant.	Port	Gain (dBi)						
		LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	LTE Band 14
3	1	3.78	3.19	2.08	2.75	1.3	1.8	1.8
4	2	2.53	3.16	-0.77	2.96	0.2	-1.7	-1.7

Ant.	Port	Gain (dBi)							
		LTE Band 17	LTE Band 25	LTE Band 26	LTE Band 30	LTE Band 66	LTE Band 71	LTE Band 38	LTE Band 41
3	1	1.3	3.78	2.08	2.57	3.19	1.83	2.64	3.17
4	2	0.2	2.53	-0.77	2.24	3.16	2.06	2.83	2.96

Note 1: The EUT has four antennas.

For 2.4GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For WWAN 4G function (1TX/2RX):

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

Note 2: Directional gain information

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

Ex.

Directional gain(NSS1) formula :

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

$$Nss1(g1,1) = 10^{G1/20} ; Nss1(g1,2) = 10^{G2/20} ; g_{j,k} = (Nss1(g1,1) + Nss1(g1,2))^2$$

$$DG = 10 \log[(Nss1(g1,1) + Nss1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Resource Unit(802.11ax)	☒ Full RU	☐ Partial RU	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		...
☐	Other:		

1.1.4 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss1,(1Mbps)_2TX	0.607	2.17	664.375u	3k
802.11g_Nss1,(6Mbps)_2TX	0.965	0.15	1.977m	1k
802.11ax HEW20_Nss1,(MCS0)_2TX	0.948	0.23	5.445m	300
802.11ax HEW40_Nss1,(MCS0)_2TX	0.933	0.3	5.445m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

Beamforming

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.948	0.23	5.445m	300
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.933	0.3	5.445m	300

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Lego Lin	23.1~24.3°C / 53~56%	23/May/2023
RF Conducted	TH07-HY	Xun Hsieh	22.2~23.7°C / 51~58%	23/May/2023~29/May/2023
Radiated (Above 1GHz)	03CH02-HY	Daniel Lin	22.9~24.2°C / 55~58%	11/May/2023~27/May/2023
Radiated (Co-location)	03CH02-HY	Jack Tang	23.6~25.1°C / 48~56%	21/Jun/2023
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Lego Lin	22.6~23.3°C / 51~53%	17/May/2023~20/May/2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Non-Beamforming

Test Software Version	QDART Connectivity1.0 00087
------------------------------	-----------------------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	20.5
2417MHz	20.5
2437MHz	21
2457MHz	21
2462MHz	20
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	17.5
2417MHz	18.5
2437MHz	21
2457MHz	18.5
2462MHz	17
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	18
2437MHz	21
2457MHz	17.5
2462MHz	18
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	16.5
2427MHz	17.5
2437MHz	18.5
2447MHz	17.5
2452MHz	17

**Beamforming**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	18
2437MHz	21
2457MHz	17.5
2462MHz	18
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	16.5
2427MHz	17.5
2437MHz	18.5
2447MHz	17.5
2452MHz	17

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode

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	CTX		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	2.4G+5G+LTE
Refer to Sporton Test Report No.: FA350604 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter 1	Brand Name	CISCO	Model Name	MA-PWR-50WAC
	Power Rating	I/P: 100 - 240 Vac, 2 A ,50/60Hz, O/P: 54.0 Vdc, 0.92 A,50 W		
	DC Power Cable	1.5 meter,non-shielded cable, w/o ferrite core		
AC Adapter 2	Brand Name	FSP	Model Name	FSP050-DWAA1
	Power Rating	I/P: 100 - 240 Vac, 1.6 A ,50/60Hz, O/P: 54.0 Vdc, 0.93 A,50 W		
	DC Power Cable	1.5 meter,non-shielded cable, with ferrite core		
AC Adapter 3	Brand Name	LITEON	Model Name	PA-1500-54C1
	Power Rating	I/P: 100 - 240 Vac 50/60 Hz, 1.5 A, O/P: 54.0 Vdc, 0.925 A 50W		
	DC Power Cable	1.5 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	Brand Name	NIENYI	Model Name	PLUG RJ45 8P8C 1000mm BLACK CAT.5E Patch Cord LFP
	Category	Cat5e	In/Out door	Indoor
	Signal line	1 meter,non-shielded cable		

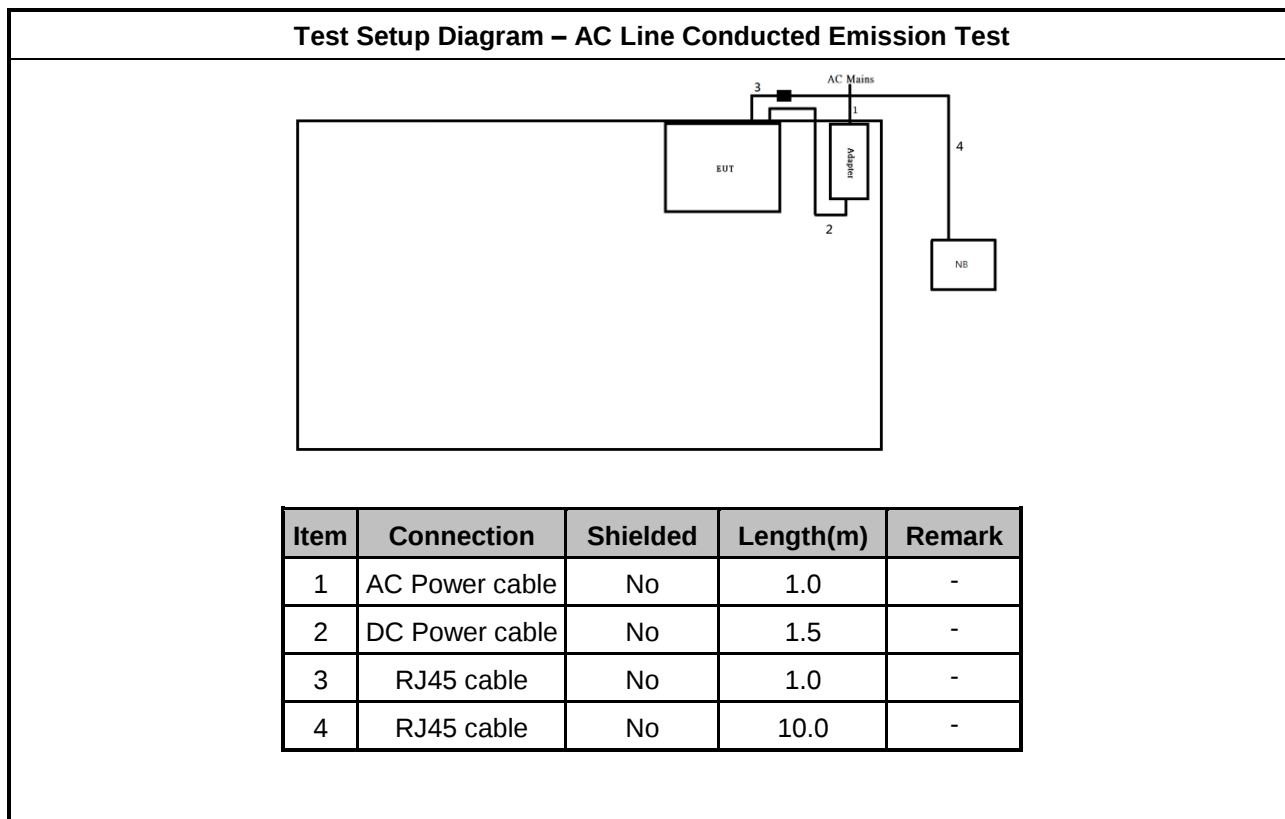
Reminder: Regarding to more detail and other information, please refer to user manual.

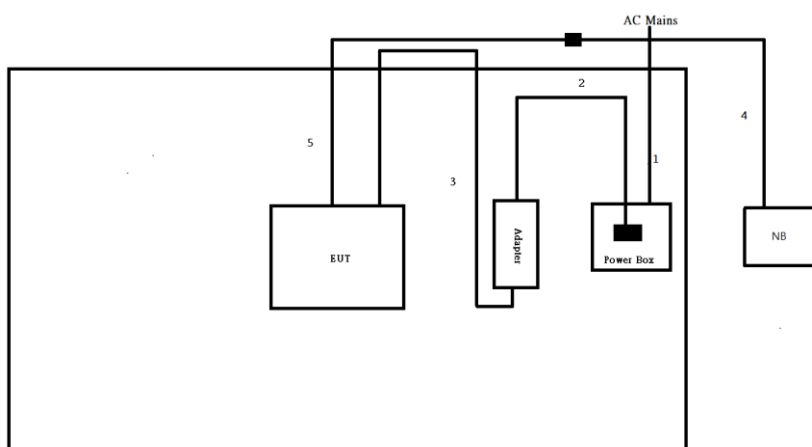
2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Power Supply	GW	APS-9102	-	-

Support Equipment –AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ45 Cable	Powersync	CAT-6E-10	-	-
2	Notebook	HP	5220M	-	remote

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	AC Power cable	No	1.0	-
3	DC Power cable	No	1.5	-
4	RJ45 cable	No	10.0	-
5	RJ45 cable	No	1.0	-

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

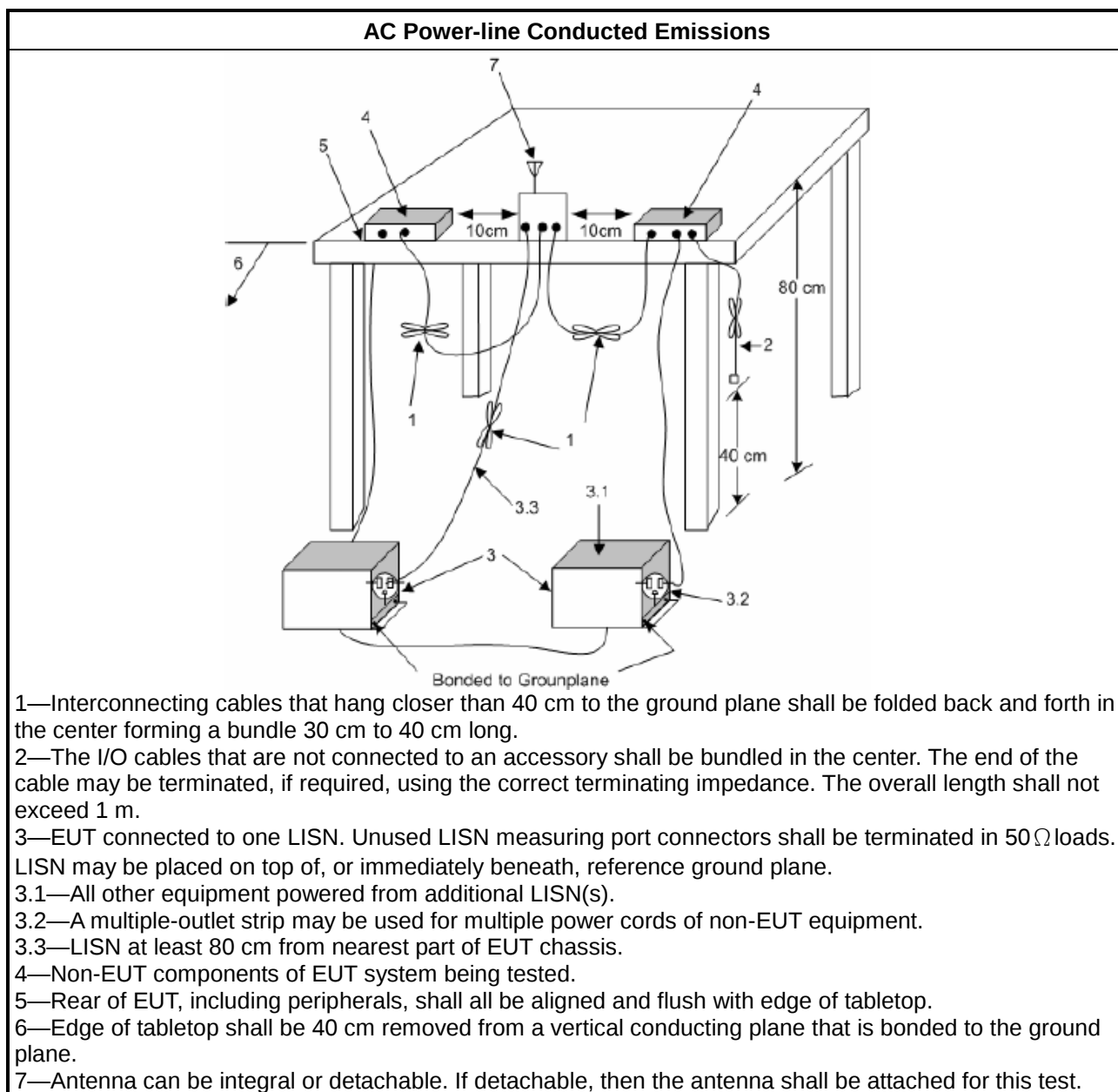
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

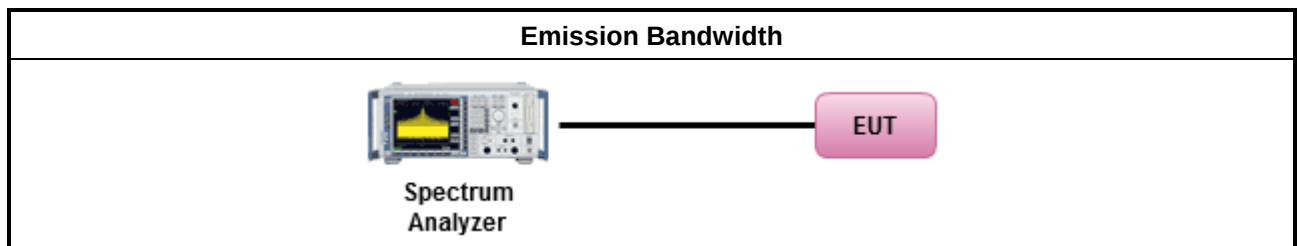
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.	

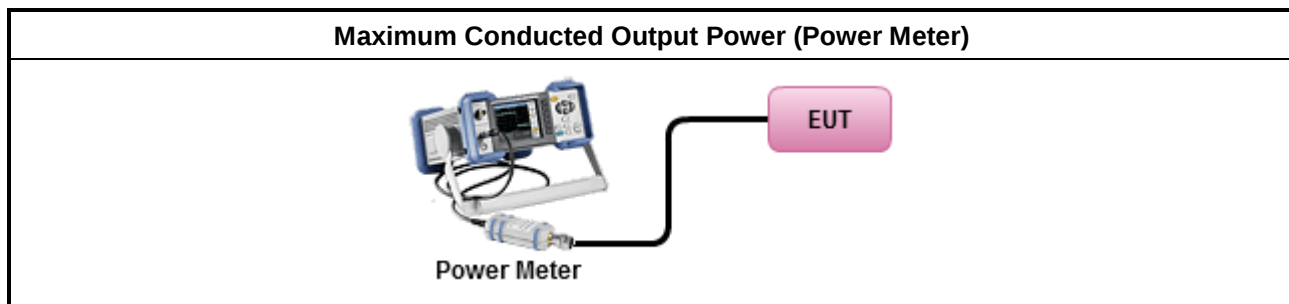
3.3.2 Measuring Instruments

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 KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

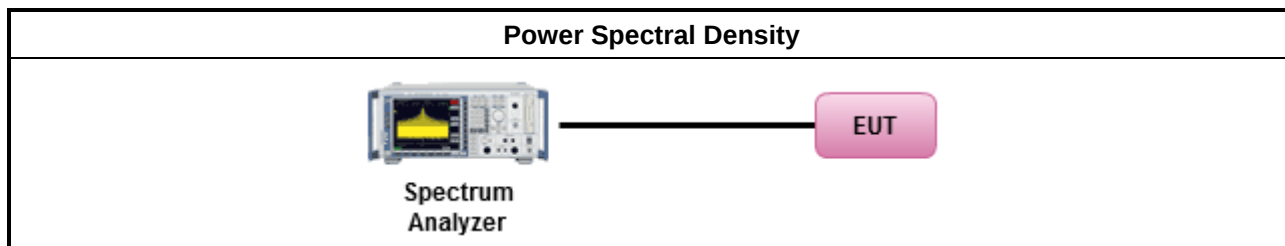
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as 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.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
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 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 level.	

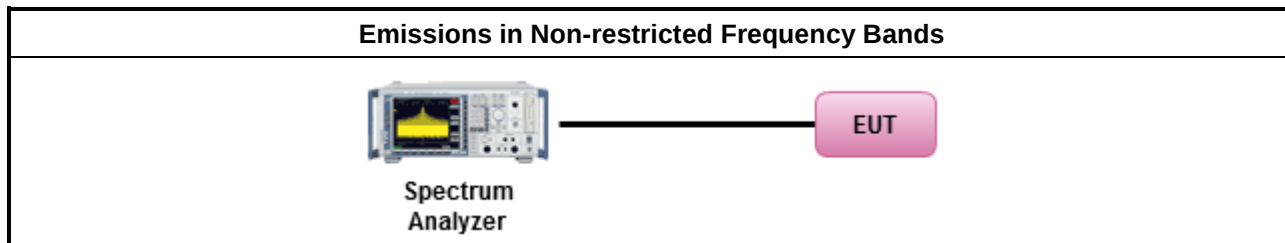
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

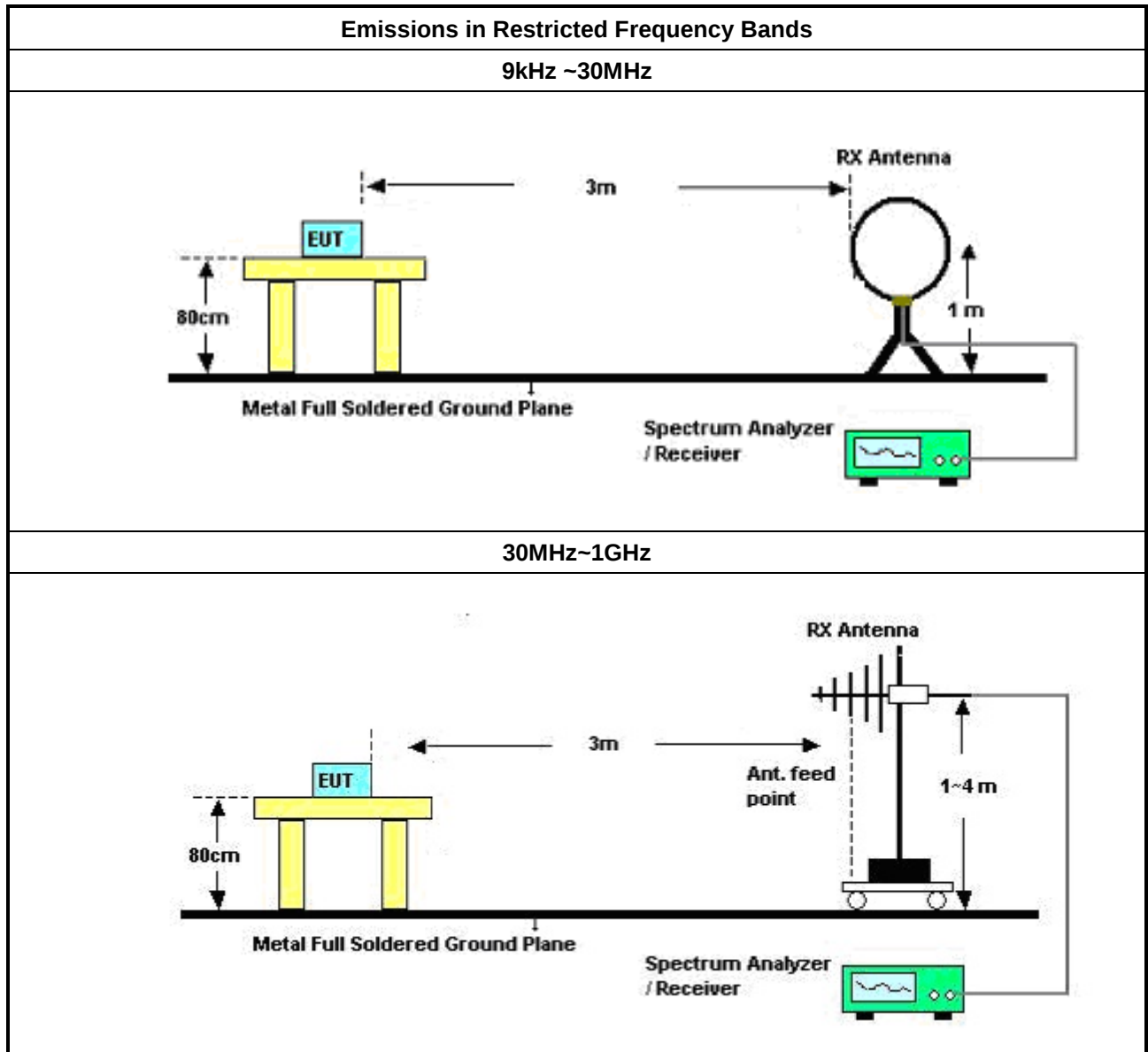
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, 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 KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

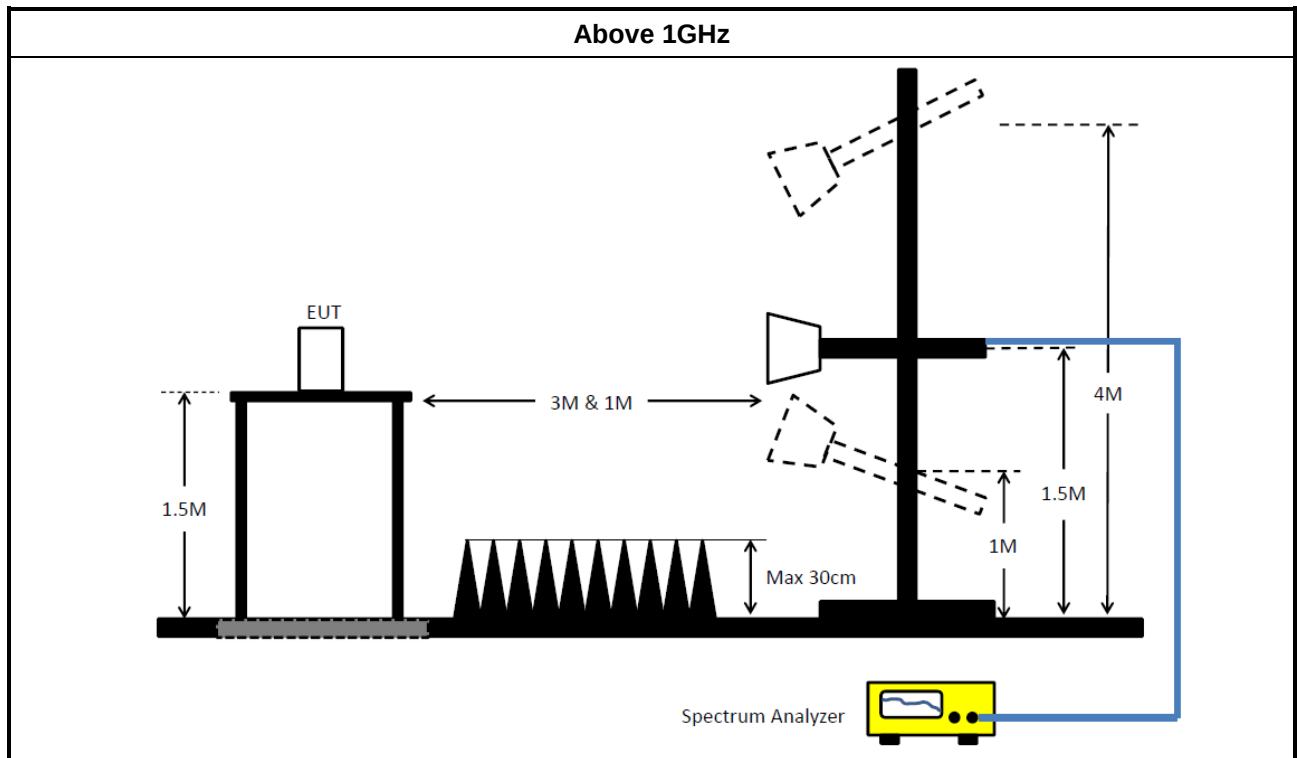
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102318	9kHz ~ 3.6GHz	29/Dec/2022	28/Dec/2023
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	16/Feb/2023	15/Feb/2024
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	28/Feb/2023	27/Feb/2024
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	25/Oct/2022	24/Oct/2023
Software	Sporton	SENSE-EMI	V5.10.8.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2023	13/Feb/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15247_DTS	Sporton	V5.11.6	N/A	N/A	N/A	N/A

Instrument for Radiated Test - Co-location (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	17/Mar/2023	16/Mar/2024
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024
SENSE_EMI	Sporton	V5.11.3	NA	NA	NA	NA

**Instrument for Radiated Test - Above 1GHz (03CH02-HY)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNE R	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	25/Mar/2023	24/Mar/2024
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	16/Mar/2023	15/Mar/2024
SENSE_15407_DTS	Sporton	V5.11	NA	NA	NA	NA

Instrument for Radiated Test (03CH09-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	15/Mar/2023	14/Mar/2024
Site V.S.W.R	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	14/Mar/2023	13/Mar/2024
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	07/Apr/2023	06/Apr/2024
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	22/Jul/2022	21/Jul/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	30/Dec/2022	29/Dec/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable-R03m	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	25/Mar/2023	24/Mar/2024
RF CABLE 5m+3m+1m	HUBER+SUHNE R	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	25/Mar/2023	24/Mar/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	25/Mar/2023	24/Mar/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	23/Mar/2023	22/Mar/2024
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	23/Mar/2023	22/Mar/2024
SENSE_15407_DTS	Sporton	V5.11	NA	NA	NA	NA



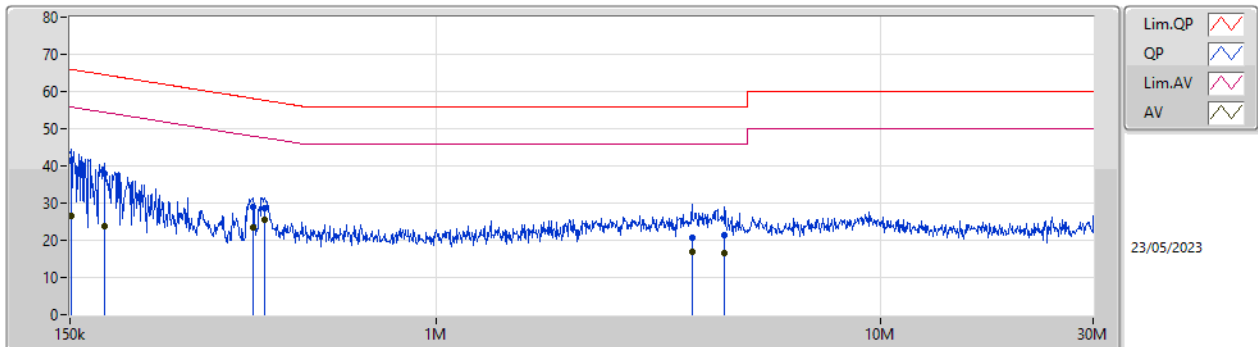
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	411.832k	25.39	47.61	-22.22	Line

Result

Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150.6k	41.44	65.96	-24.52	Line	-
Mode 1	Pass	AV	150.6k	26.60	55.96	-29.36	Line	-
Mode 1	Pass	QP	179.518k	38.08	64.51	-26.43	Line	-
Mode 1	Pass	AV	179.518k	23.81	54.51	-30.70	Line	-
Mode 1	Pass	QP	387.896k	28.84	58.10	-29.26	Line	-
Mode 1	Pass	AV	387.896k	23.40	48.10	-24.70	Line	-
Mode 1	Pass	QP	411.832k	28.63	57.61	-28.98	Line	-
Mode 1	Pass	AV	411.832k	25.39	47.61	-22.22	Line	-
Mode 1	Pass	QP	3.76M	20.71	56.00	-35.29	Line	-
Mode 1	Pass	AV	3.76M	17.00	46.00	-29.00	Line	-
Mode 1	Pass	QP	4.446M	21.49	56.00	-34.51	Line	-
Mode 1	Pass	AV	4.446M	16.68	46.00	-29.32	Line	-
Mode 1	Pass	QP	161.175k	38.50	65.41	-26.91	Neutral	-
Mode 1	Pass	AV	161.175k	21.83	55.41	-33.58	Neutral	-
Mode 1	Pass	QP	180.236k	36.02	64.47	-28.45	Neutral	-
Mode 1	Pass	AV	180.236k	21.80	54.47	-32.67	Neutral	-
Mode 1	Pass	QP	208.925k	32.79	63.25	-30.46	Neutral	-
Mode 1	Pass	AV	208.925k	19.77	53.25	-33.48	Neutral	-
Mode 1	Pass	QP	381.751k	21.29	58.24	-36.95	Neutral	-
Mode 1	Pass	AV	381.751k	15.78	48.24	-32.46	Neutral	-
Mode 1	Pass	QP	3.389M	19.74	56.00	-36.26	Neutral	-
Mode 1	Pass	AV	3.389M	16.51	46.00	-29.49	Neutral	-
Mode 1	Pass	QP	4.105M	23.92	56.00	-32.08	Neutral	-
Mode 1	Pass	AV	4.105M	18.49	46.00	-27.51	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150.6k	41.44	65.96	-24.52	19.61	Line	-	21.83	9.65	0.03	9.93			
AV	150.6k	26.60	55.96	-29.36	19.61	Line	-	6.99	9.65	0.03	9.93			
QP	179.518k	38.08	64.51	-26.43	19.61	Line	-	18.47	9.65	0.03	9.93			
AV	179.518k	23.81	54.51	-30.70	19.61	Line	-	4.20	9.65	0.03	9.93			
QP	387.896k	28.84	58.10	-29.26	19.64	Line	-	9.20	9.64	0.04	9.96			
AV	387.896k	23.40	48.10	-24.70	19.64	Line	-	3.76	9.64	0.04	9.96			
QP	411.832k	28.63	57.61	-28.98	19.64	Line	-	8.99	9.64	0.04	9.96			
AV	411.832k	25.39	47.61	-22.22	19.64	Line	-	5.75	9.64	0.04	9.96			
QP	3.76M	20.71	56.00	-35.29	19.76	Line	-	0.95	9.70	0.13	9.93			
AV	3.76M	17.00	46.00	-29.00	19.76	Line	-	-2.76	9.70	0.13	9.93			
QP	4.446M	21.49	56.00	-34.51	19.78	Line	-	1.71	9.71	0.14	9.93			
AV	4.446M	16.68	46.00	-29.32	19.78	Line	-	-3.10	9.71	0.14	9.93			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	161.175k	38.50	65.41	-26.91	19.59	Neutral	-	18.91	9.63	0.03	9.93			
AV	161.175k	21.83	55.41	-33.58	19.59	Neutral	-	2.24	9.63	0.03	9.93			
QP	180.236k	36.02	64.47	-28.45	19.58	Neutral	-	16.44	9.62	0.03	9.93			
AV	180.236k	21.80	54.47	-32.67	19.58	Neutral	-	2.22	9.62	0.03	9.93			
QP	208.925k	32.79	63.25	-30.46	19.58	Neutral	-	13.21	9.62	0.03	9.93			
AV	208.925k	19.77	53.25	-33.48	19.58	Neutral	-	0.19	9.62	0.03	9.93			
QP	381.751k	21.29	58.24	-36.95	19.63	Neutral	-	1.66	9.63	0.04	9.96			
AV	381.751k	15.78	48.24	-32.46	19.63	Neutral	-	-3.85	9.63	0.04	9.96			
QP	3.389M	19.74	56.00	-36.26	19.73	Neutral	-	0.01	9.68	0.12	9.93			
AV	3.389M	16.51	46.00	-29.49	19.73	Neutral	-	-3.22	9.68	0.12	9.93			
QP	4.105M	23.92	56.00	-32.08	19.74	Neutral	-	4.18	9.68	0.13	9.93			
AV	4.105M	18.49	46.00	-27.51	19.74	Neutral	-	-1.25	9.68	0.13	9.93			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.55M	14.033M	14M0G1D	7.525M	13.103M
802.11g_Nss1,(6Mbps)_2TX	15.075M	18.405M	18M4D1D	13.875M	16.238M
802.11ax HEW20_Nss1,(MCS0)_2TX	16.8M	19.19M	19M2D1D	11.3M	18.815M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.55M	37.746M	37M7D1D	22.65M	37.362M

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	8.075M	13.103M	8.55M	13.913M
2437MHz	Pass	500k	8.525M	13.943M	8.05M	14.033M
2462MHz	Pass	500k	7.575M	13.748M	7.525M	13.748M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	16.238M	15.05M	16.417M
2437MHz	Pass	500k	13.875M	17.789M	15.075M	18.405M
2462MHz	Pass	500k	15.075M	16.319M	15.05M	16.283M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	18.815M	15.9M	18.88M
2437MHz	Pass	500k	12.8M	19.14M	16.8M	19.19M
2462MHz	Pass	500k	11.3M	18.866M	12.475M	18.837M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	32.65M	37.57M	22.65M	37.362M
2437MHz	Pass	500k	35M	37.677M	36.55M	37.746M
2452MHz	Pass	500k	30M	37.575M	23.7M	37.609M

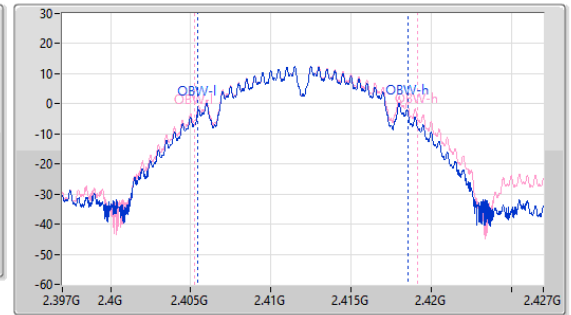
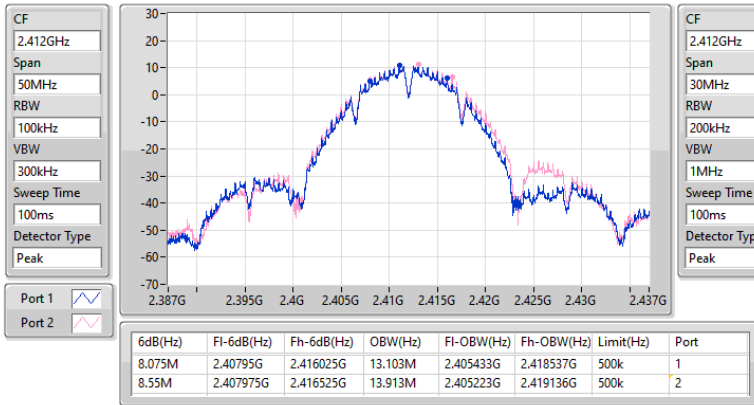
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

23/05/2023

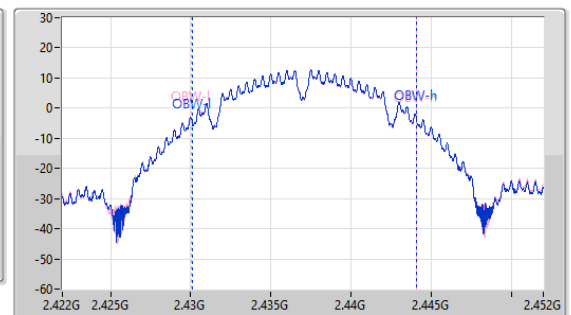
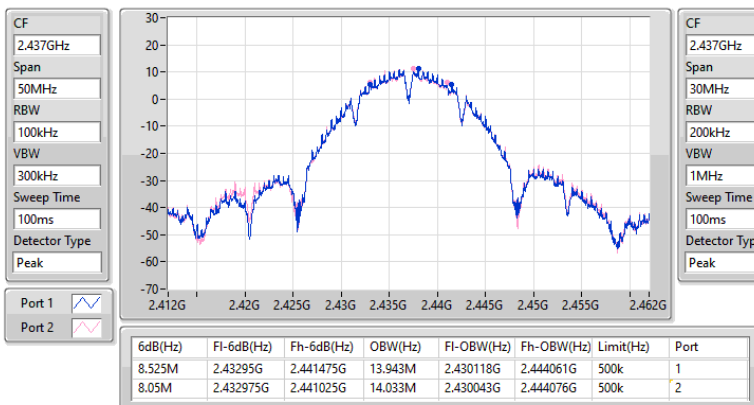


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

23/05/2023

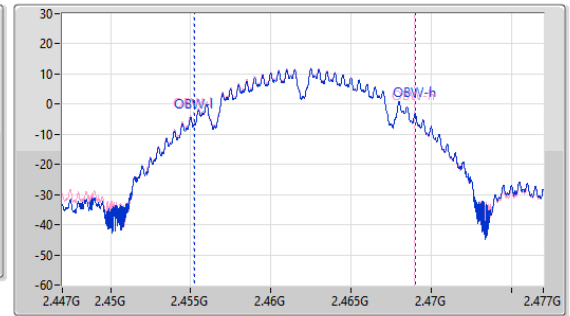
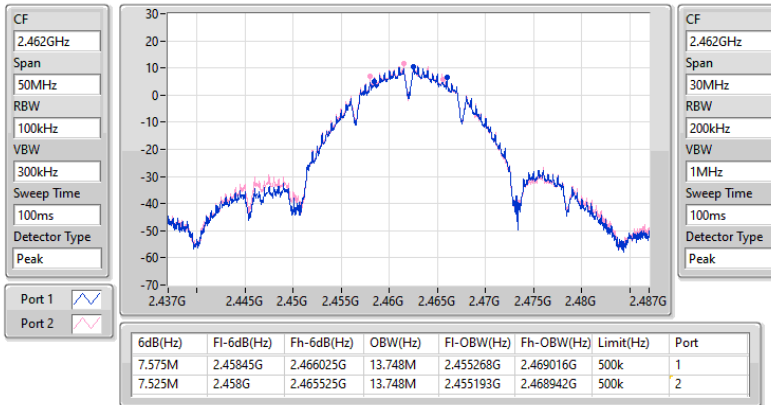


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

23/05/2023

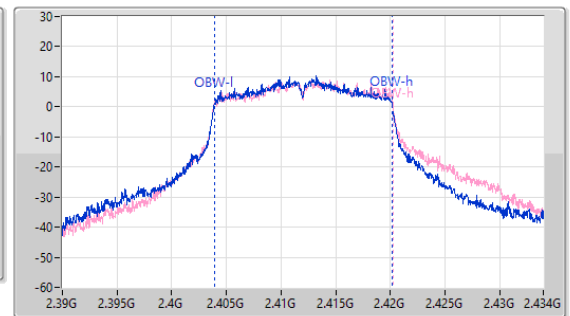
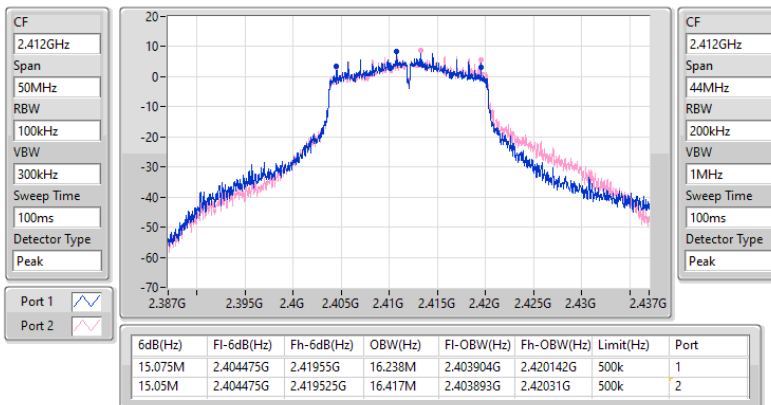


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

29/05/2023

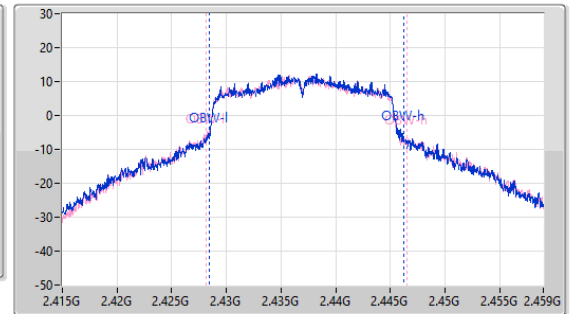
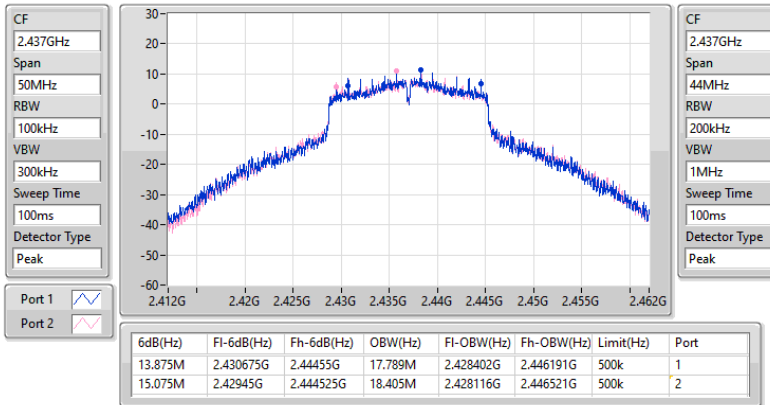


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

23/05/2023

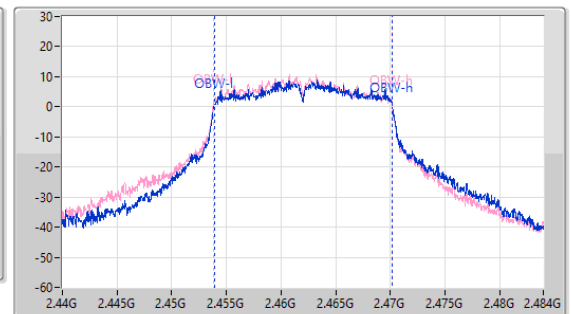
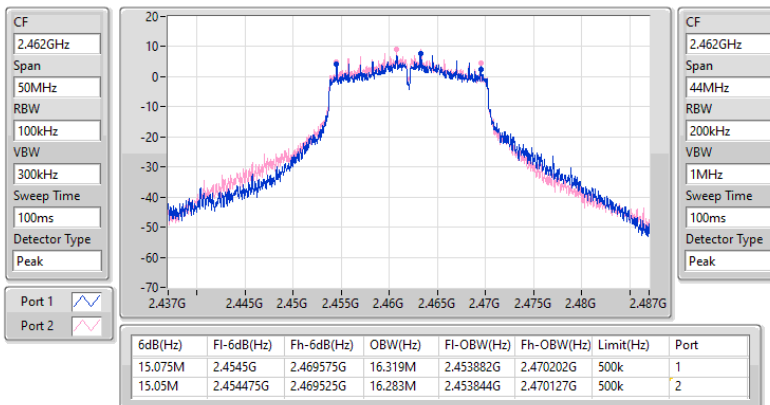


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

29/05/2023

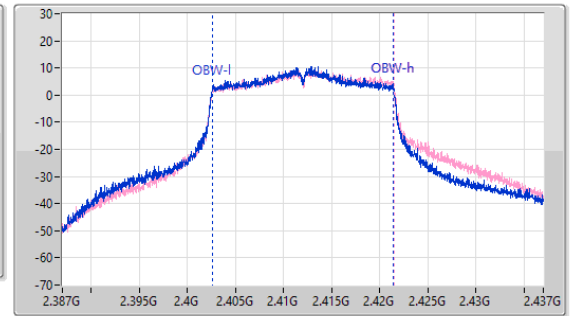
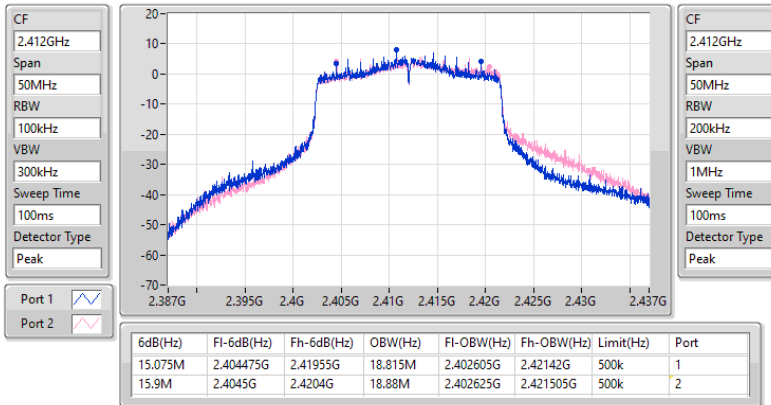


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2412MHz

29/05/2023

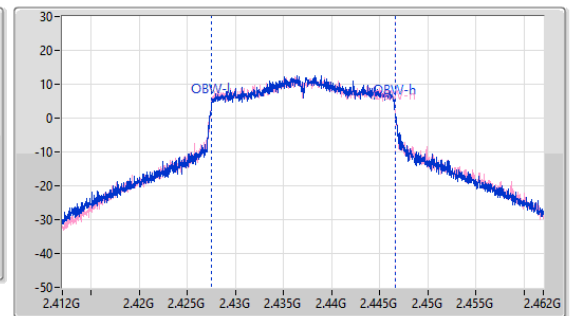
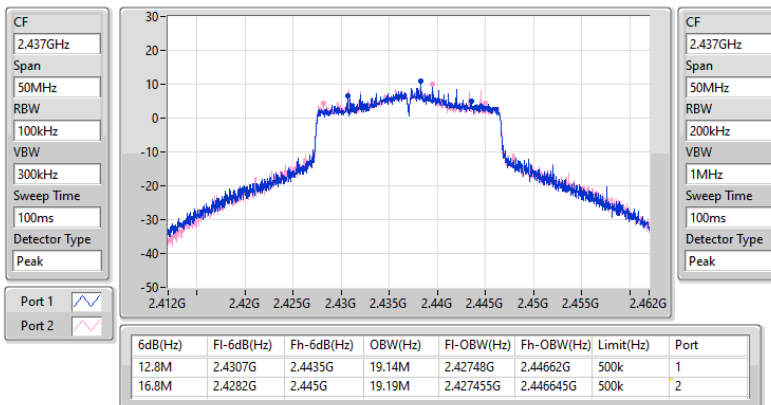


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2437MHz

23/05/2023

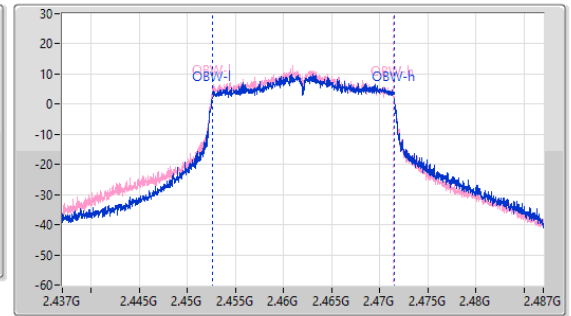
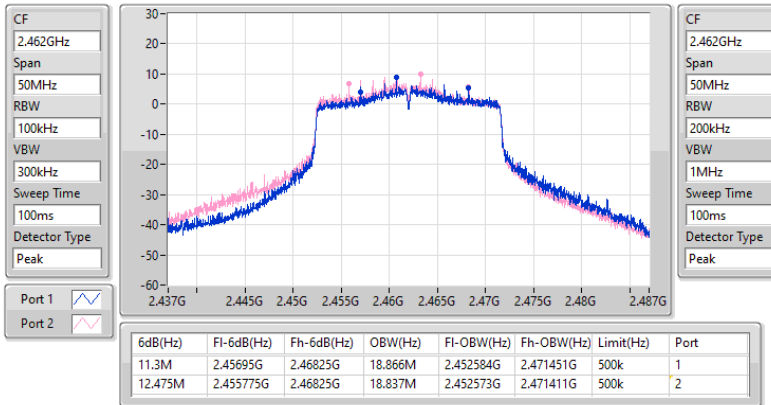


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

EBW

2462MHz

29/05/2023

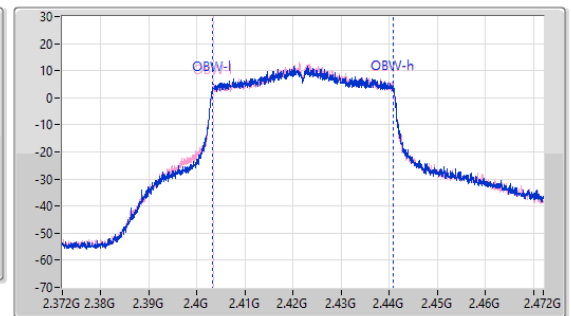
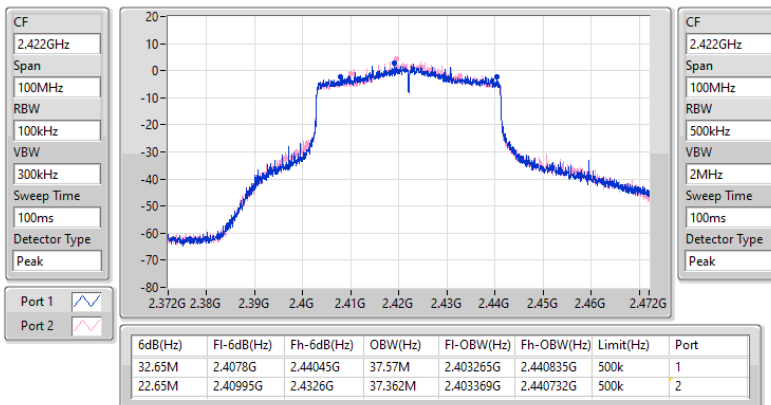


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2422MHz

29/05/2023

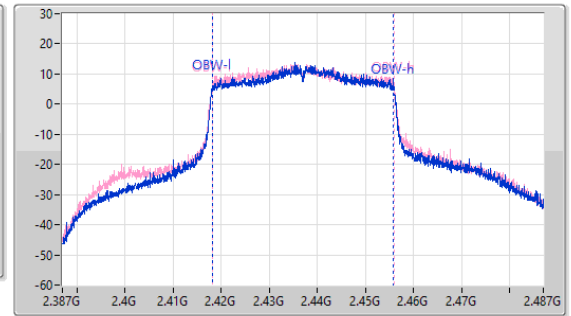
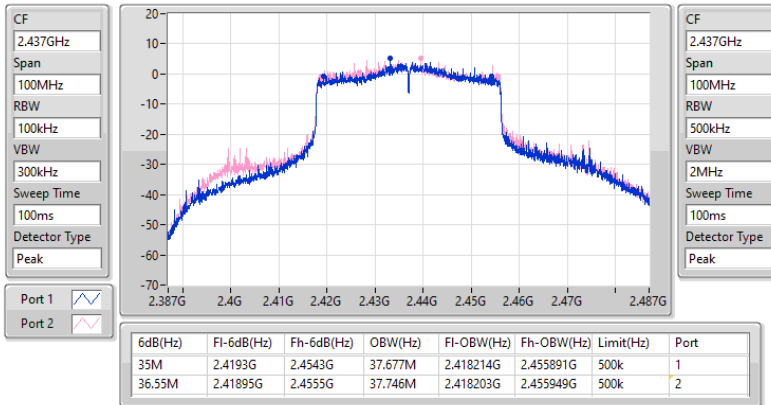


2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

29/05/2023

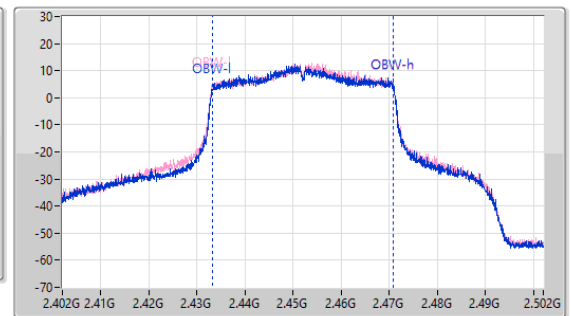
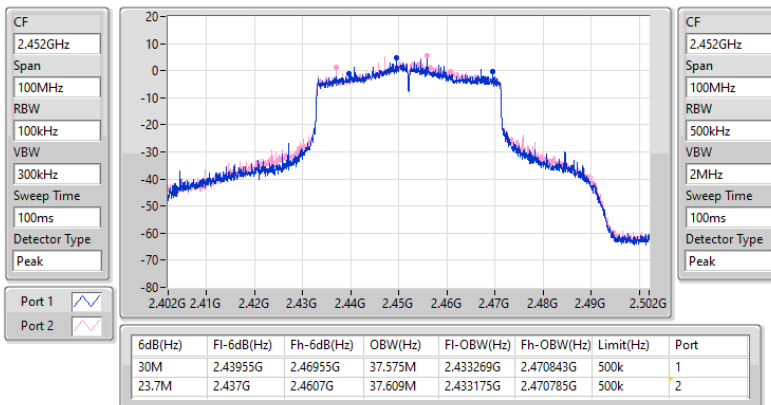


2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

29/05/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.03	0.20091
802.11g_Nss1,(6Mbps)_2TX	23.29	0.21330
802.11ax HEW20_Nss1,(MCS0)_2TX	22.97	0.19815
802.11ax HEW40_Nss1,(MCS0)_2TX	21.69	0.14757



Average Power_Non-Beamforming

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.40	19.51	19.93	22.74	30.00
2417MHz	Pass	4.40	19.20	20.46	22.89	30.00
2437MHz	Pass	4.40	20.09	19.94	23.03	30.00
2457MHz	Pass	4.40	19.55	20.32	22.96	30.00
2462MHz	Pass	4.40	19.08	19.41	22.26	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.40	17.53	17.44	20.50	30.00
2417MHz	Pass	4.40	18.14	18.84	21.51	30.00
2437MHz	Pass	4.40	20.31	20.24	23.29	30.00
2457MHz	Pass	4.40	17.96	18.50	21.25	30.00
2462MHz	Pass	4.40	17.02	18.06	20.58	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.40	17.17	17.06	20.13	30.00
2417MHz	Pass	4.40	17.28	17.97	20.65	30.00
2437MHz	Pass	4.40	20.00	19.92	22.97	30.00
2457MHz	Pass	4.40	16.78	17.26	20.04	30.00
2462MHz	Pass	4.40	17.84	18.44	21.16	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.40	16.24	16.85	19.57	30.00
2427MHz	Pass	4.40	17.30	17.93	20.64	30.00
2437MHz	Pass	4.40	18.40	18.95	21.69	30.00
2447MHz	Pass	4.40	17.23	17.87	20.57	30.00
2452MHz	Pass	4.40	16.77	17.59	20.21	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.90	0.19498
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	21.60	0.14454

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.18	17.08	16.97	20.04	28.82
2417MHz	Pass	7.18	17.22	17.91	20.59	28.82
2437MHz	Pass	7.18	19.93	19.85	22.90	28.82
2457MHz	Pass	7.18	16.72	17.20	19.98	28.82
2462MHz	Pass	7.18	17.78	18.38	21.10	28.82
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.18	16.15	16.76	19.48	28.82
2427MHz	Pass	7.18	17.25	17.88	20.59	28.82
2437MHz	Pass	7.18	18.31	18.86	21.60	28.82
2447MHz	Pass	7.18	17.15	17.79	20.49	28.82
2452MHz	Pass	7.18	16.70	17.52	20.14	28.82

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-0.90
802.11g_Nss1,(6Mbps)_2TX	-3.01
802.11ax HEW20_Nss1,(MCS0)_2TX	-2.54
802.11ax HEW40_Nss1,(MCS0)_2TX	-8.85

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	7.18	-4.28	-3.06	-0.90	6.82
2437MHz	Pass	7.18	-3.27	-2.81	-0.91	6.82
2462MHz	Pass	7.18	-4.45	-3.93	-1.26	6.82
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.18	-10.75	-9.85	-8.24	6.82
2437MHz	Pass	7.18	-5.17	-5.24	-3.01	6.82
2462MHz	Pass	7.18	-10.41	-9.90	-8.39	6.82
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.18	-10.81	-10.69	-9.12	6.82
2437MHz	Pass	7.18	-5.23	-4.08	-2.54	6.82
2462MHz	Pass	7.18	-11.15	-11.11	-9.37	6.82
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.18	-13.52	-13.23	-11.79	6.82
2437MHz	Pass	7.18	-11.60	-10.08	-8.85	6.82
2452MHz	Pass	7.18	-14.14	-14.29	-13.09	6.82

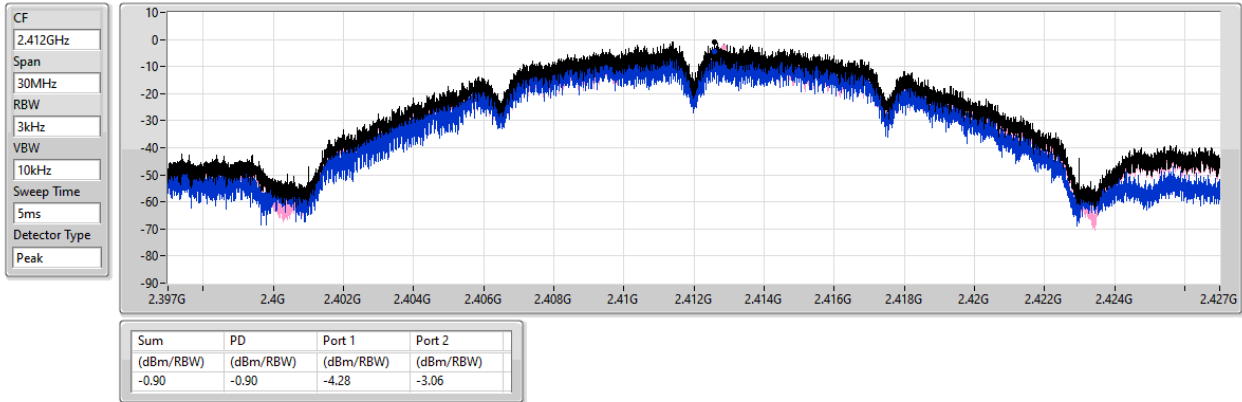
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

PSD

2412MHz

23/05/2023

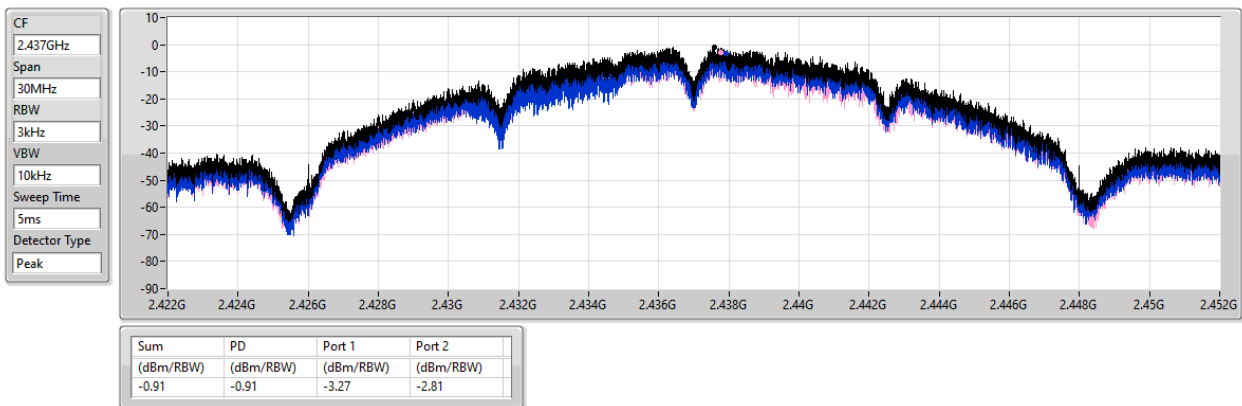


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

23/05/2023

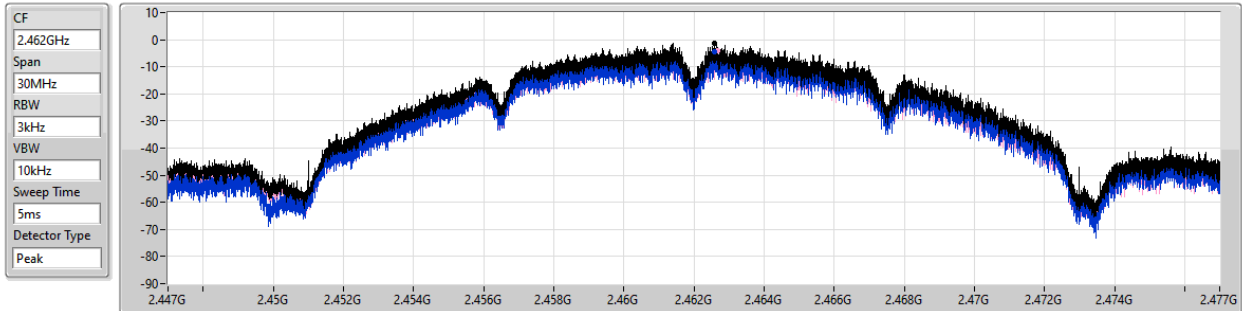


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

23/05/2023



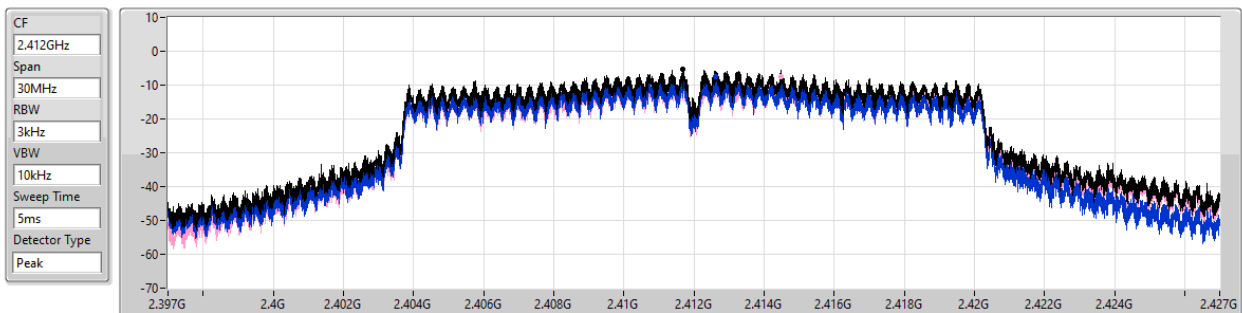
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-1.26	-1.26	-4.45	-3.93

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

PSD

2412MHz

29/05/2023



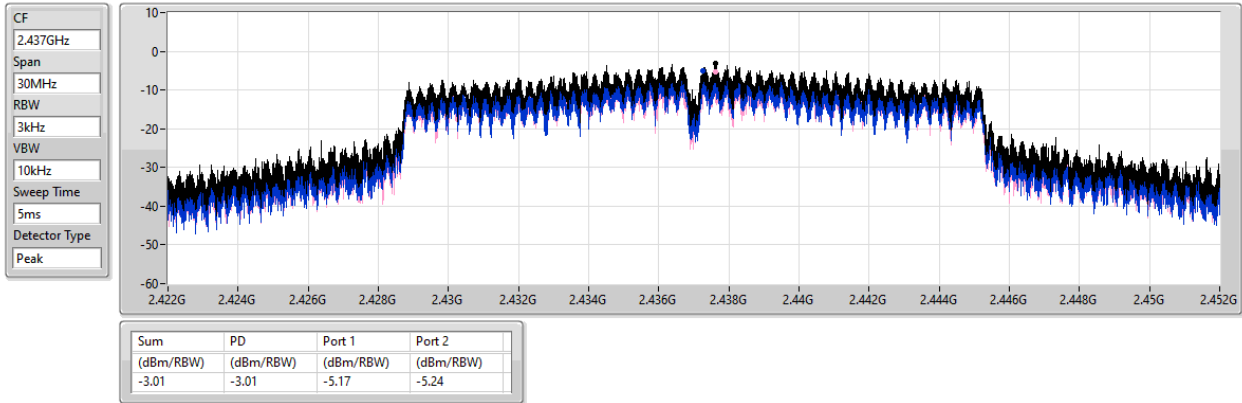
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-5.44	-5.44	-7.35	-7.47

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

PSD

2437MHz

23/05/2023

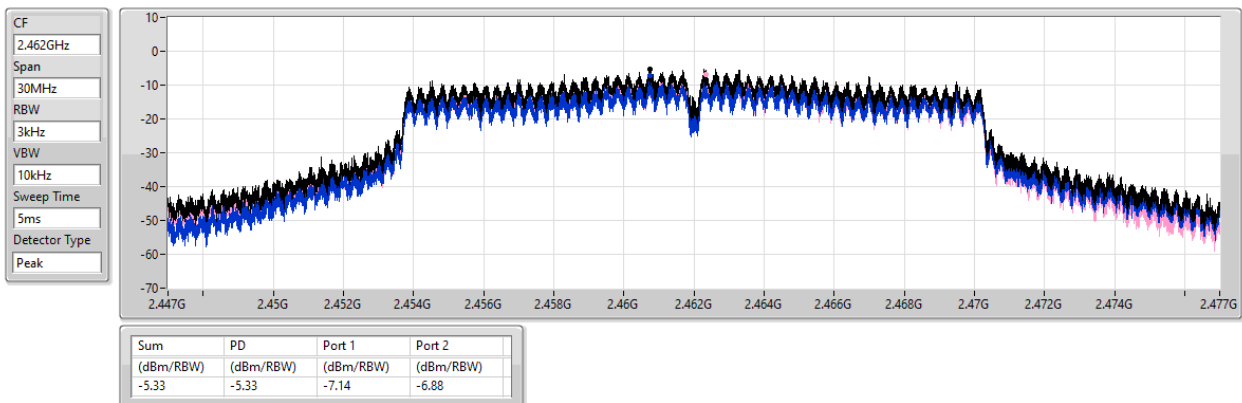


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

29/05/2023

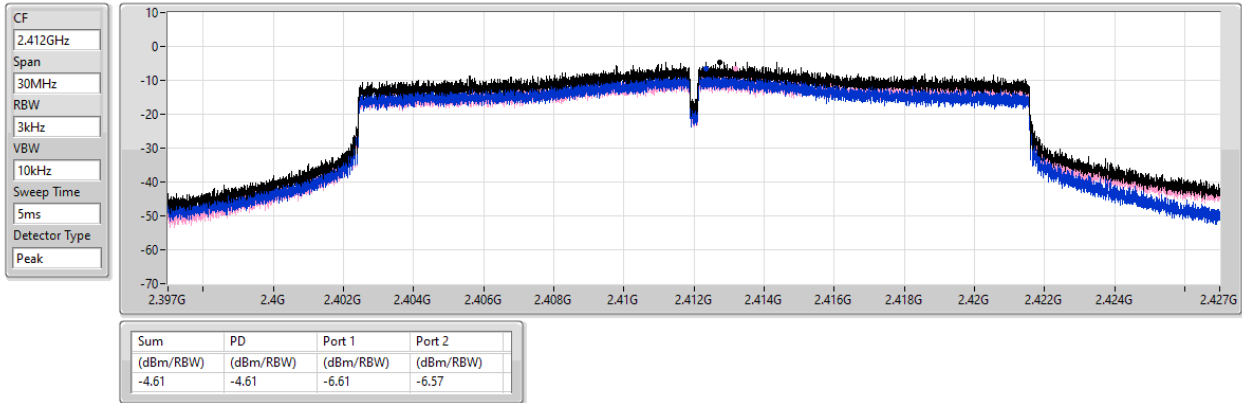


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

29/05/2023

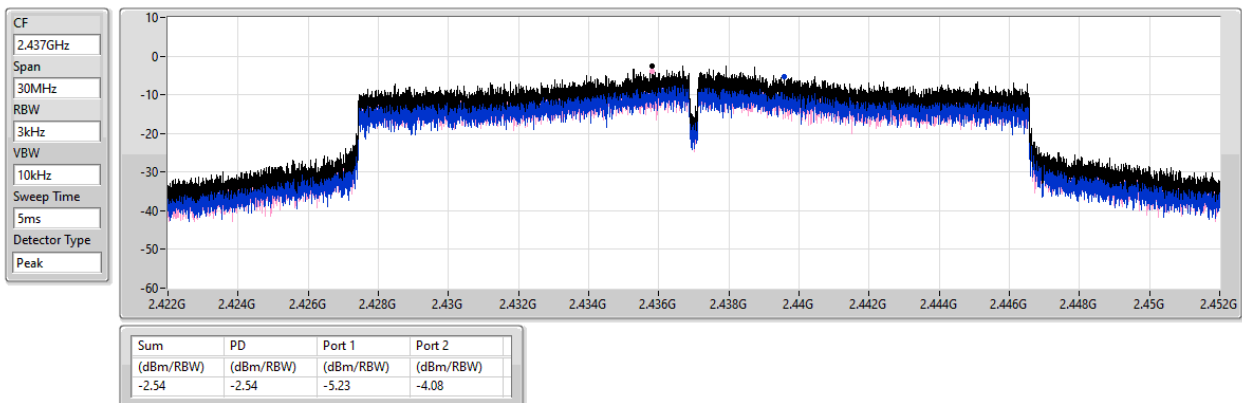


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

23/05/2023

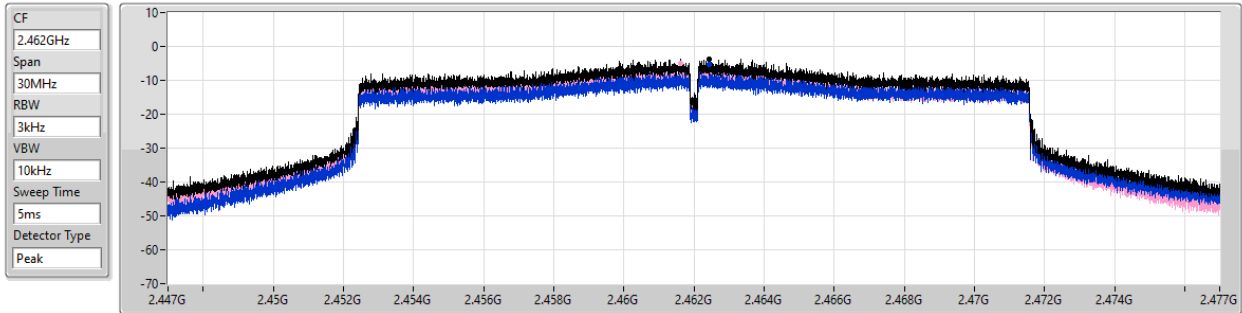


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

29/05/2023



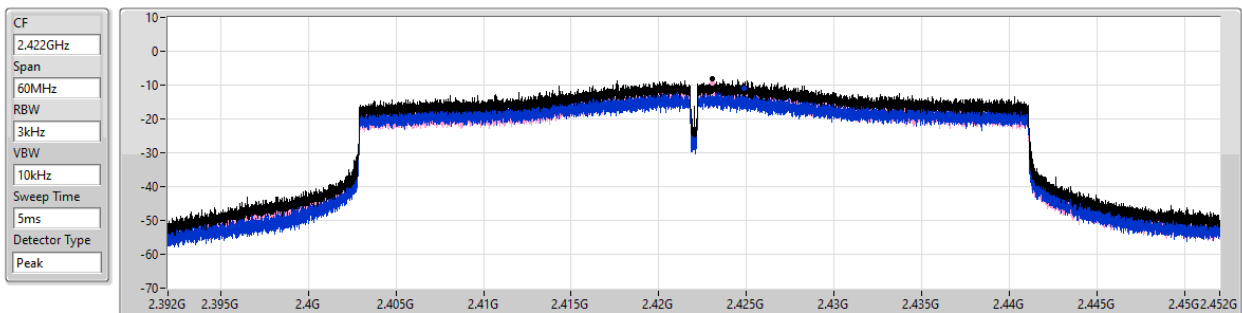
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.68	-3.68	-5.39	-5.09

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

PSD

2422MHz

29/05/2023



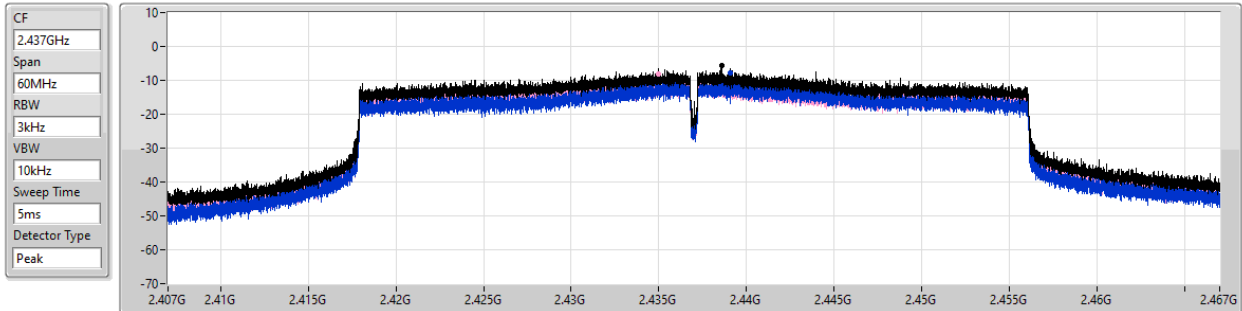
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.15	-8.15	-11.05	-9.45

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

PSD

2437MHz

29/05/2023



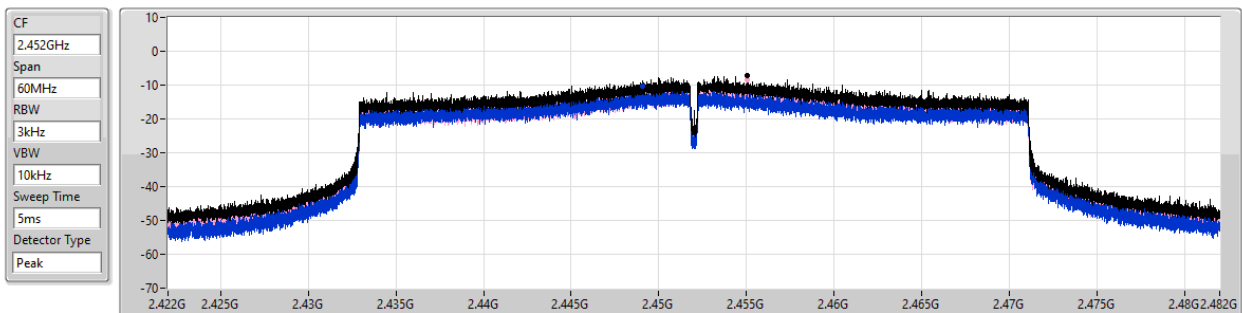
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.76	-5.76	-7.71	-8.15

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

PSD

2452MHz

29/05/2023



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.31	-7.31	-10.37	-8.37

**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	2.43607G	11.72	-18.28	1.9674G	-55.79	2.396G	-28.57	2.4G	-36.19	2.52094G	-53.26	24.48585G	-42.70	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43824G	11.30	-18.70	2.30758G	-54.68	2.4G	-29.20	2.4G	-26.88	2.52246G	-51.72	21.533G	-44.65	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.43958G	10.58	-19.42	1.93361G	-54.79	2.39976G	-27.35	2.4G	-26.32	2.51934G	-51.43	21.99377G	-44.14	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.4344G	5.59	-24.41	1.93528G	-54.64	2.39952G	-27.07	2.4G	-31.66	2.52974G	-54.90	21.58685G	-44.62	2

Result

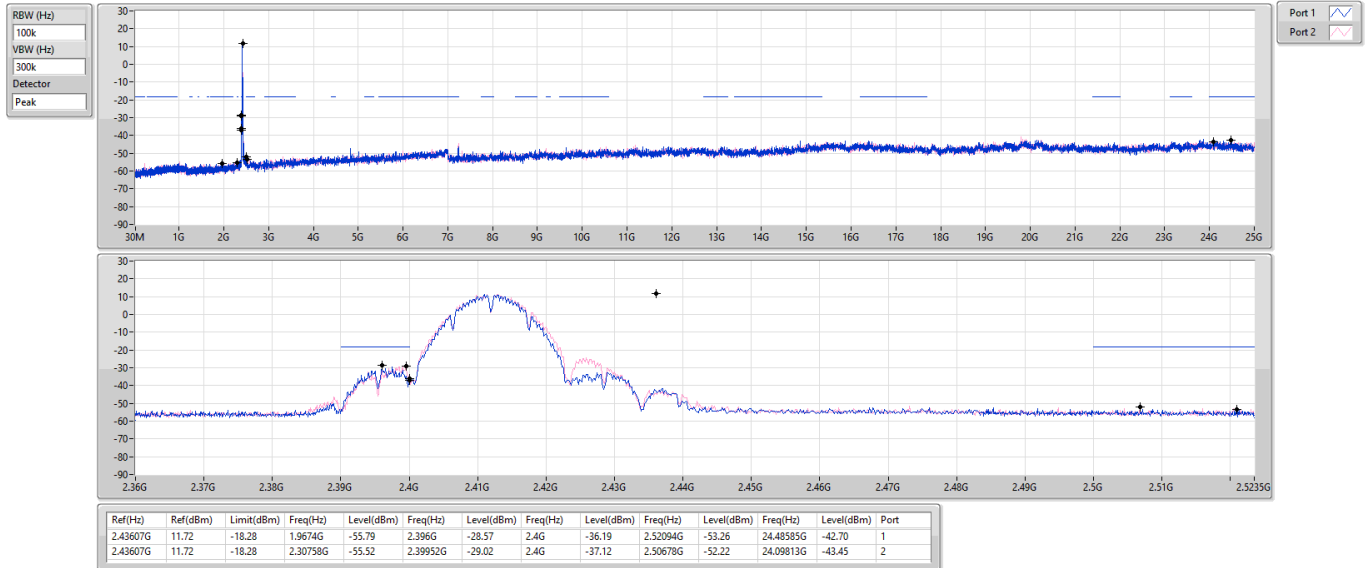
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43607G	11.72	-18.28	1.9674G	-55.79	2.396G	-28.57	2.4G	-36.19	2.52094G	-53.26	24.48585G	-42.70	1
2412MHz	Pass	2.43607G	11.72	-18.28	2.30758G	-55.52	2.39952G	-29.02	2.4G	-37.12	2.50678G	-52.22	24.09813G	-43.45	2
2437MHz	Pass	2.43607G	11.72	-18.28	2.13166G	-54.54	2.39808G	-51.79	2.4G	-55.28	2.51158G	-52.82	23.18783G	-43.19	1
2437MHz	Pass	2.43607G	11.72	-18.28	2.11652G	-55.34	2.3988G	-52.85	2.4G	-55.15	2.51014G	-52.54	14.62148G	-42.99	2
2462MHz	Pass	2.43607G	11.72	-18.28	2.30874G	-55.24	2.39408G	-53.01	2.4G	-55.16	2.51254G	-53.29	23.55588G	-43.17	1
2462MHz	Pass	2.43607G	11.72	-18.28	1.91148G	-55.04	2.3964G	-53.58	2.4G	-55.81	2.51534G	-53.51	24.77524G	-42.42	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	11.30	-18.70	2.14448G	-54.88	2.39984G	-28.12	2.4G	-27.77	2.50286G	-51.83	21.40657G	-44.97	1
2412MHz	Pass	2.43824G	11.30	-18.70	2.30758G	-54.68	2.4G	-29.20	2.4G	-26.88	2.52246G	-51.72	21.533G	-44.65	2
2437MHz	Pass	2.43824G	11.30	-18.70	2.03613G	-54.81	2.39824G	-40.09	2.4G	-42.42	2.50214G	-51.60	21.63976G	-45.12	1
2437MHz	Pass	2.43824G	11.30	-18.70	2.18176G	-53.82	2.39952G	-40.80	2.4G	-42.07	2.50126G	-51.77	21.93196G	-43.38	2
2462MHz	Pass	2.43824G	11.30	-18.70	2.16894G	-54.38	2.39504G	-52.10	2.4G	-57.07	2.50134G	-51.38	21.61729G	-44.63	1
2462MHz	Pass	2.43824G	11.30	-18.70	2.07341G	-54.30	2.39656G	-52.38	2.4G	-56.29	2.5043G	-51.61	21.57795G	-44.82	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43958G	10.58	-19.42	1.93361G	-54.79	2.39976G	-27.35	2.4G	-26.32	2.51934G	-51.43	21.99377G	-44.14	1
2412MHz	Pass	2.43958G	10.58	-19.42	1.80896G	-55.26	2.39984G	-28.36	2.4G	-28.21	2.51838G	-50.53	21.52457G	-44.46	2
2437MHz	Pass	2.43958G	10.58	-19.42	2.127G	-54.38	2.39976G	-39.56	2.4G	-40.99	2.52222G	-51.43	21.99096G	-44.30	1
2437MHz	Pass	2.43958G	10.58	-19.42	2.12817G	-54.83	2.39744G	-40.27	2.4G	-41.69	2.5003G	-52.12	21.592G	-44.46	2
2462MHz	Pass	2.43958G	10.58	-19.42	2.16312G	-54.73	2.39968G	-51.56	2.4G	-56.66	2.51118G	-51.44	21.49929G	-43.76	1
2462MHz	Pass	2.43958G	10.58	-19.42	2.11535G	-54.44	2.39816G	-51.57	2.4G	-57.67	2.50886G	-51.75	21.92072G	-43.96	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4344G	5.59	-24.41	2.11848G	-54.62	2.39968G	-29.28	2.4G	-29.98	2.5571G	-54.22	21.52234G	-44.26	1
2422MHz	Pass	2.4344G	5.59	-24.41	2.13222G	-54.93	2.39968G	-28.53	2.4G	-29.22	2.55614G	-54.60	21.89535G	-44.93	2
2437MHz	Pass	2.4344G	5.59	-24.41	1.9662G	-55.02	2.39968G	-33.68	2.4G	-36.29	2.55662G	-54.85	21.64855G	-44.76	1
2437MHz	Pass	2.4344G	5.59	-24.41	1.93528G	-54.64	2.39952G	-27.07	2.4G	-31.66	2.52974G	-54.90	21.58685G	-44.62	2
2452MHz	Pass	2.4344G	5.59	-24.41	2.16199G	-54.54	2.39584G	-42.58	2.4G	-45.63	2.55262G	-53.52	21.556G	-44.62	1
2452MHz	Pass	2.4344G	5.59	-24.41	2.11276G	-54.60	2.39984G	-44.30	2.4G	-45.02	2.51358G	-54.89	21.87572G	-44.41	2

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

CSEndB

2412MHz

23/05/2023

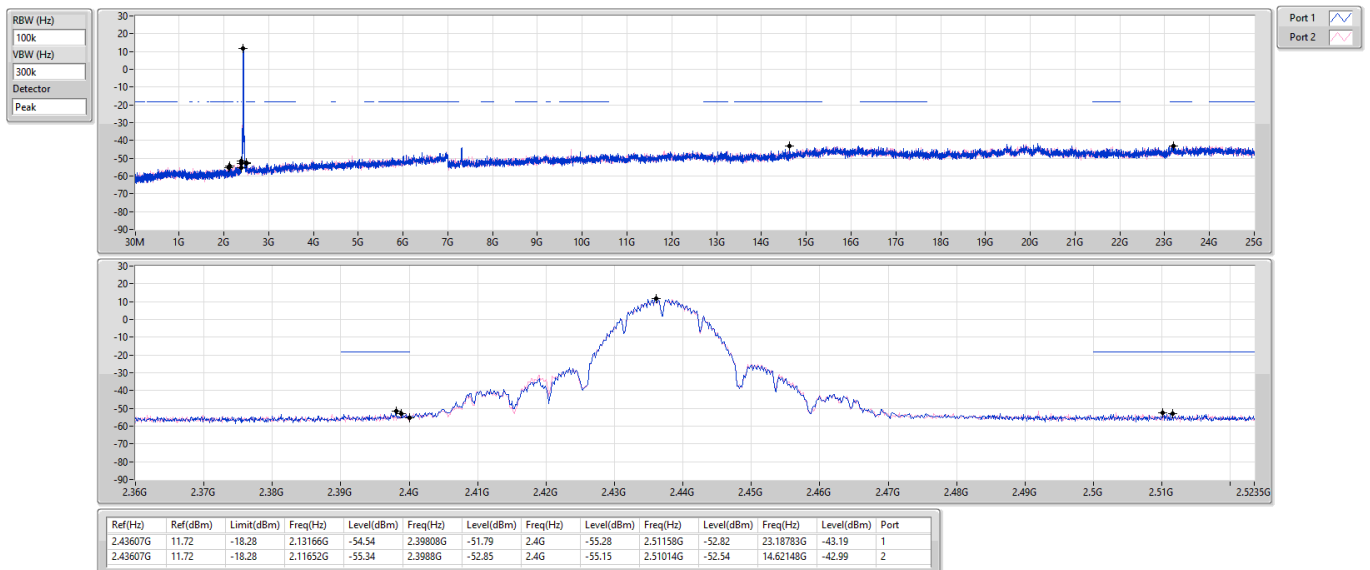


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

CSEndB

2437MHz

23/05/2023



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

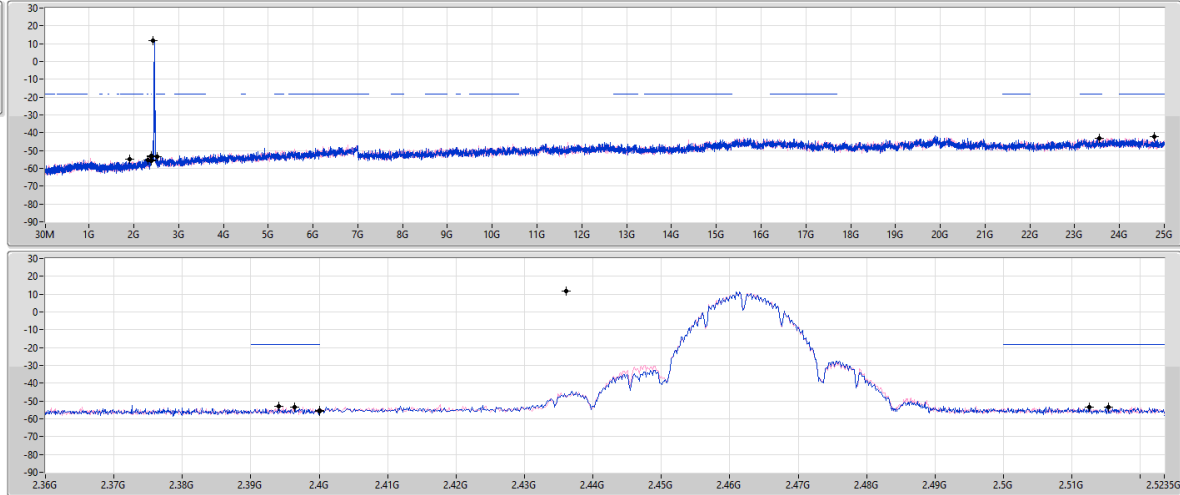
CSEndB

2462MHz

23/05/2023

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

Port 1
Port 2



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

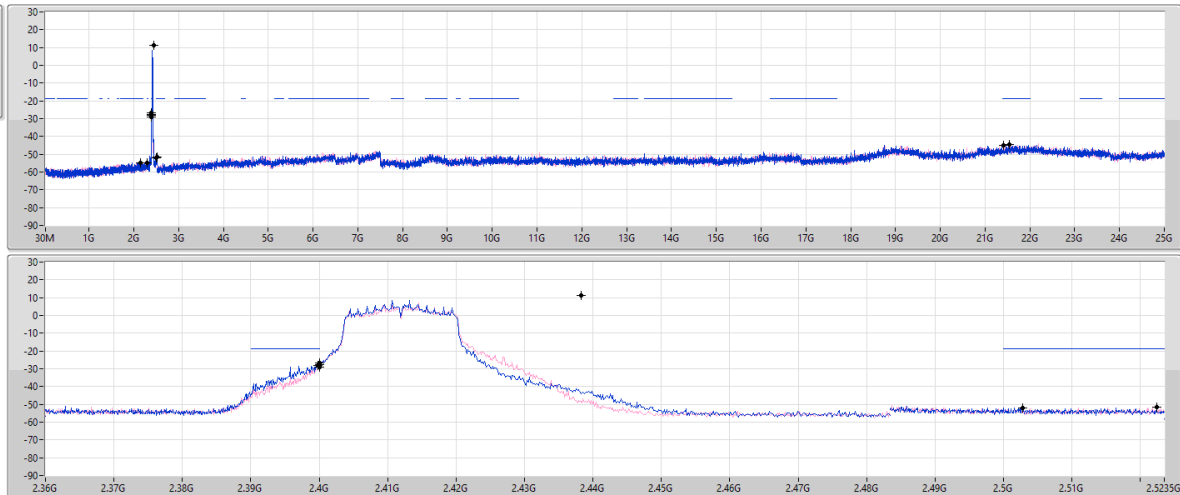
CSEndB

2412MHz

29/05/2023

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

Port 1
Port 2



2.4-2.4835GHz_802.11g_(6Mbps)_2TX

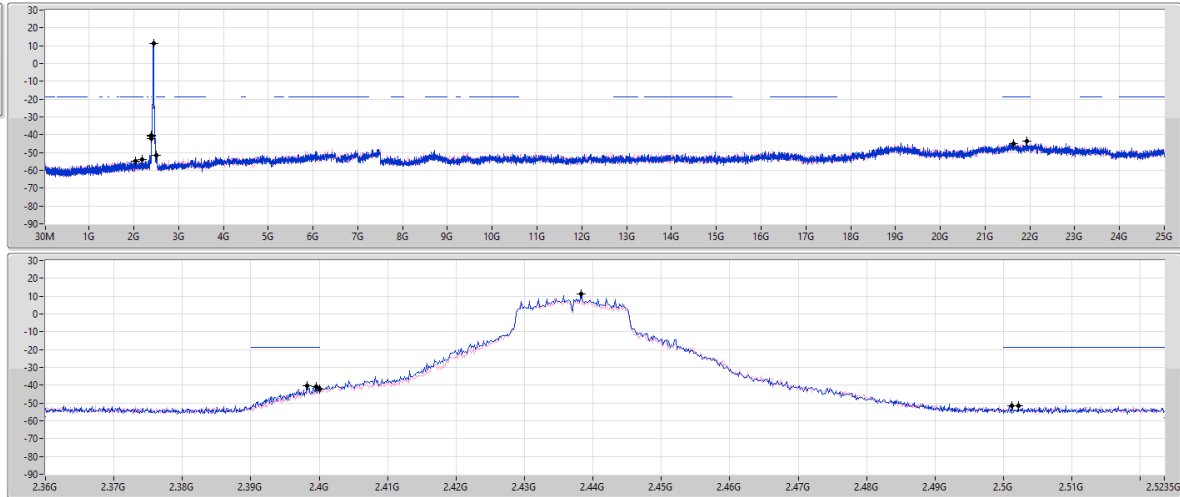
CSEndB

2437MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	11.30	-18.70	2.03613G	-54.81	2.39824G	-40.09	2.4G	-42.42	2.50214G	-51.60	21.63976G	-45.12	1
2.43824G	11.30	-18.70	2.18176G	-53.82	2.39952G	-40.80	2.4G	-42.07	2.50126G	-51.77	21.93196G	-43.38	2

2.4-2.4835GHz_802.11g_(6Mbps)_2TX

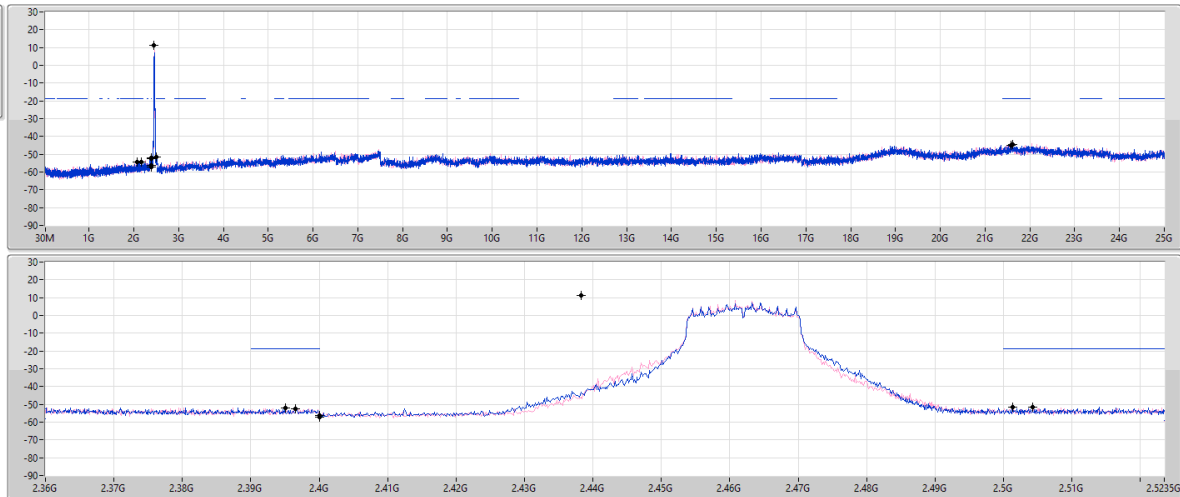
CSEndB

2462MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	11.30	-18.70	2.16894G	-54.38	2.39504G	-52.10	2.4G	-57.07	2.50134G	-51.38	21.61729G	-44.63	1
2.43824G	11.30	-18.70	2.07341G	-54.30	2.39656G	-52.38	2.4G	-56.29	2.5043G	-51.61	21.57795G	-44.82	2

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

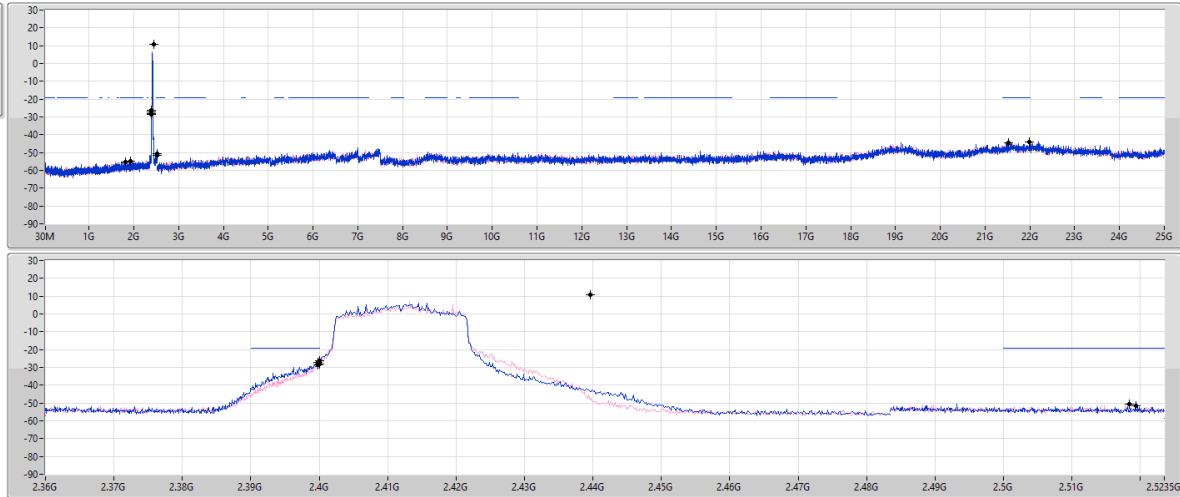
CSEndB

2412MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43958G	10.58	-19.42	1.93361G	-54.79	2.39976G	-27.35	2.4G	-26.32	2.51934G	-51.43	21.99377G	-44.14	1
2.43958G	10.58	-19.42	1.80896G	-55.26	2.39984G	-28.36	2.4G	-28.21	2.51838G	-50.53	21.52457G	-44.46	2

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

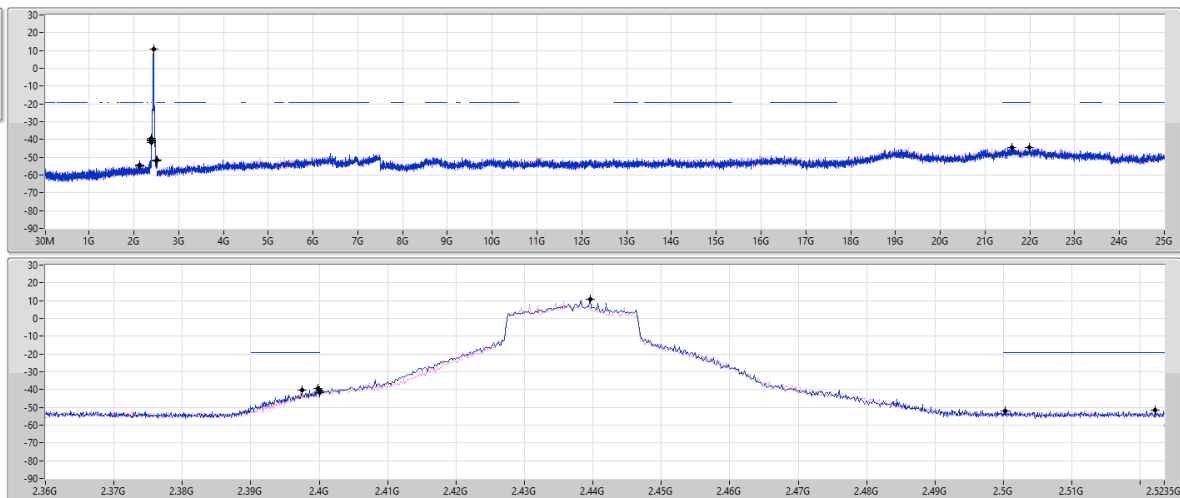
CSEndB

2437MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43958G	10.58	-19.42	2.127G	-54.38	2.39976G	-39.56	2.4G	-40.99	2.52222G	-51.43	21.99096G	-44.30	1
2.43958G	10.58	-19.42	2.12817G	-54.83	2.39744G	-40.27	2.4G	-41.69	2.5003G	-52.12	21.592G	-44.46	2

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

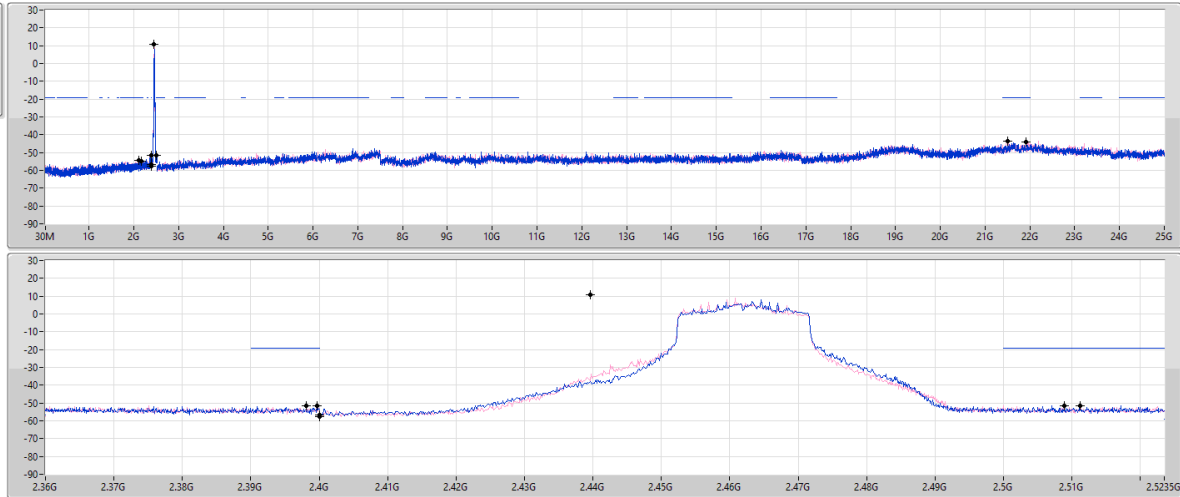
CSEndB

2462MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43958G	10.58	-19.42	2.16312G	-54.73	2.39968G	-51.56	2.4G	-56.66	2.51118G	-51.44	2.149929G	-43.76	1
2.43958G	10.58	-19.42	2.11535G	-54.44	2.39816G	-51.57	2.4G	-57.67	2.50886G	-51.75	2.192072G	-43.96	2

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

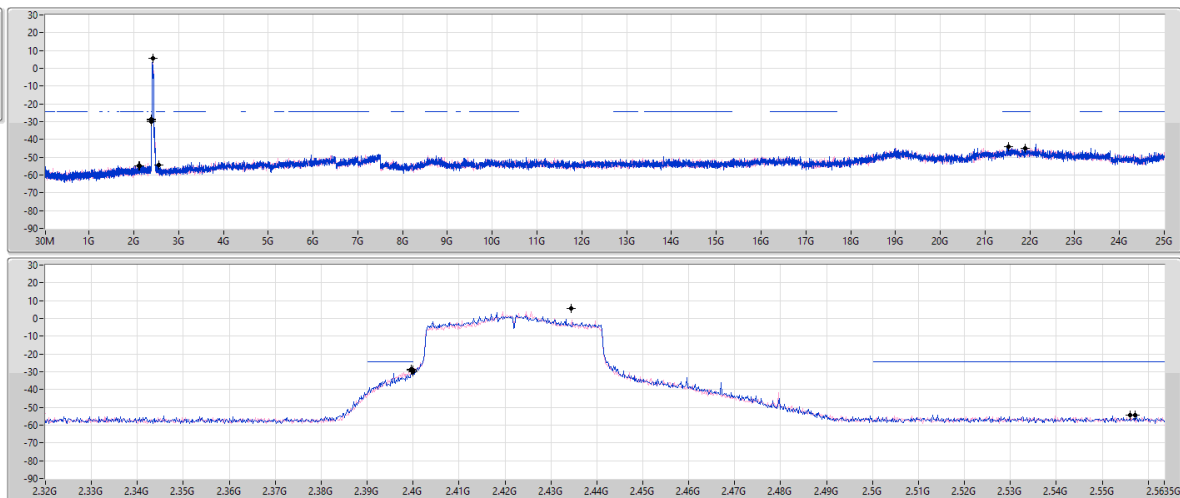
CSEndB

2422MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4344G	5.59	-24.41	2.11848G	-54.62	2.39968G	-29.28	2.4G	-29.98	2.5571G	-54.22	2.152234G	-44.26	1
2.4344G	5.59	-24.41	2.12222G	-54.93	2.39968G	-28.53	2.4G	-29.22	2.55614G	-54.60	2.189335G	-44.93	2

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

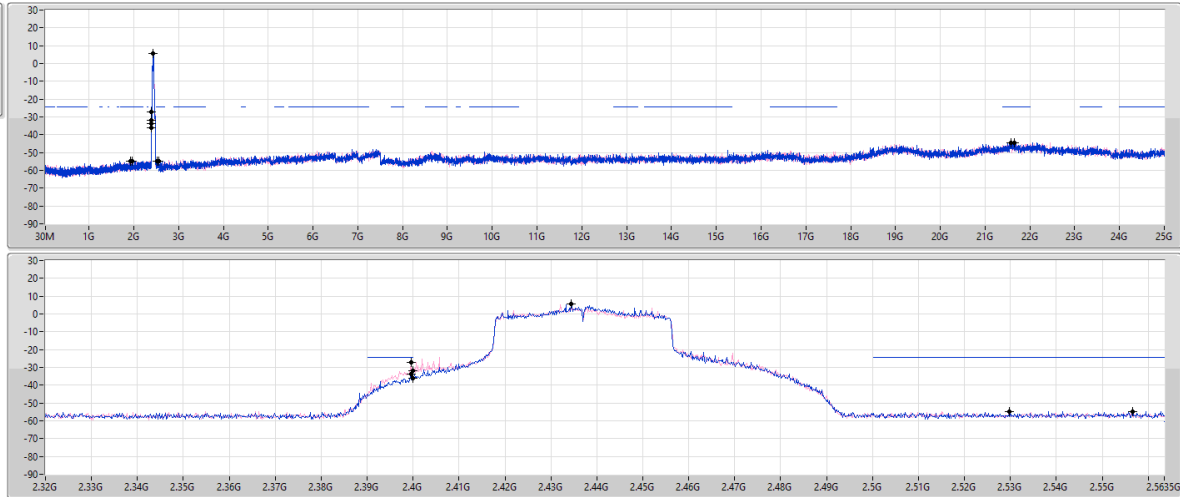
CSEndB

2437MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4344G	5.59	-24.41	1.9662G	-55.02	2.39968G	-33.68	2.4G	-36.29	2.55662G	-54.85	21.64855G	-44.76	1
2.4344G	5.59	-24.41	1.93528G	-54.64	2.39952G	-27.07	2.4G	-31.66	2.52974G	-54.90	21.58885G	-44.62	2

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

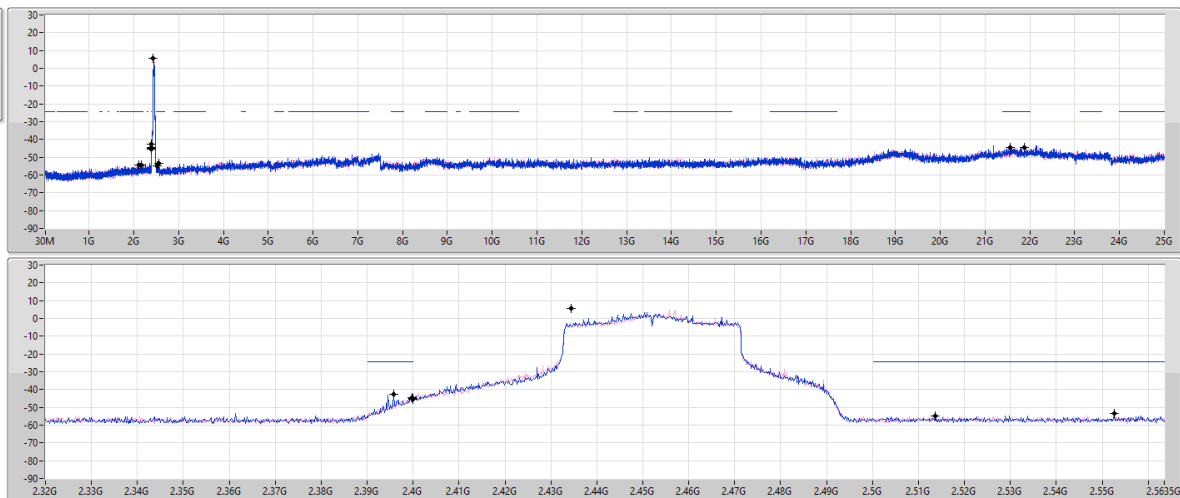
CSEndB

2452MHz

29/05/2023

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

Port 1
Port 2



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4344G	5.59	-24.41	2.16199G	-54.54	2.39584G	-42.58	2.4G	-45.63	2.55262G	-53.52	21.558G	-44.62	1
2.4344G	5.59	-24.41	2.11276G	-54.60	2.39984G	-44.30	2.4G	-45.02	2.51388G	-54.89	21.87372G	-44.41	2



Summary

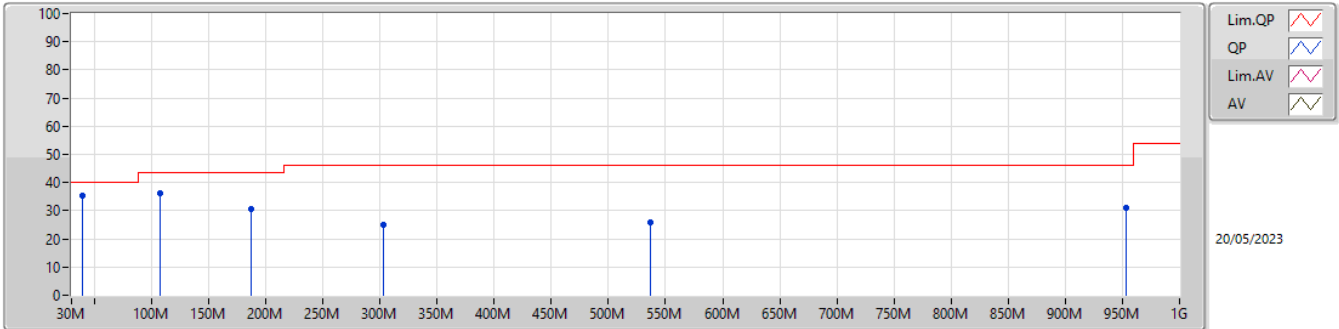
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	QP	39.7M	35.53	40.00	-4.47	3	Vertical	172	1.00

**Result**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	107.6M	36.39	43.50	-7.11	3	Vertical	360	1.00
2437MHz	Pass	PK	187.14M	30.75	43.50	-12.75	3	Vertical	360	1.00
2437MHz	Pass	PK	303.54M	25.19	46.00	-20.81	3	Vertical	360	1.00
2437MHz	Pass	PK	536.34M	25.76	46.00	-20.24	3	Vertical	360	1.00
2437MHz	Pass	PK	953.44M	31.16	46.00	-14.84	3	Vertical	360	1.00
2437MHz	Pass	QP	39.7M	35.53	40.00	-4.47	3	Vertical	172	1.00
2437MHz	Pass	PK	103.72M	35.35	43.50	-8.15	3	Horizontal	0	1.00
2437MHz	Pass	PK	130.88M	34.36	43.50	-9.14	3	Horizontal	0	1.00
2437MHz	Pass	PK	214.3M	32.55	43.50	-10.95	3	Horizontal	0	1.00
2437MHz	Pass	PK	313.24M	25.66	46.00	-20.34	3	Horizontal	0	1.00
2437MHz	Pass	PK	718.7M	26.91	46.00	-19.09	3	Horizontal	0	1.00
2437MHz	Pass	PK	951.5M	31.38	46.00	-14.62	3	Horizontal	0	1.00

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

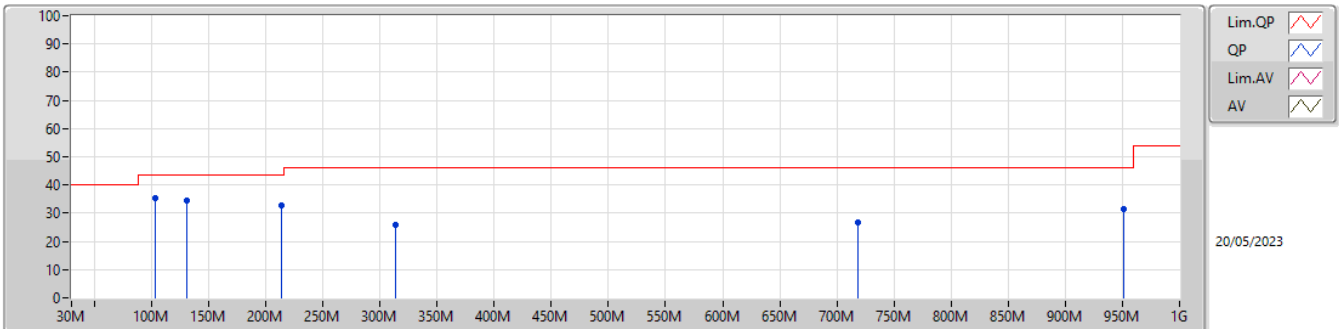
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	107.6M	36.39	43.50	-7.11	-19.46	3	Vertical	360	1.00	55.85	15.97	1.14	36.57
PK	187.14M	30.75	43.50	-12.75	-20.79	3	Vertical	360	1.00	51.54	14.01	1.55	36.35
PK	303.34M	25.19	46.00	-20.81	-15.94	3	Vertical	360	1.00	41.13	18.39	2.06	36.39
PK	536.34M	25.76	46.00	-20.24	-10.98	3	Vertical	360	1.00	36.74	23.17	2.86	37.01
PK	953.44M	31.16	46.00	-14.84	-3.42	3	Vertical	360	1.00	34.58	30.04	3.92	37.38
QP	39.7M	35.53	40.00	-4.47	-17.59	3	Vertical	172	1.00	53.12	18.79	0.67	37.05

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

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	103.72M	35.35	43.50	-8.15	-19.80	3	Horizontal	0	1.00	55.15	15.65	1.13	36.58
PK	130.88M	34.36	43.50	-9.14	-18.42	3	Horizontal	0	1.00	52.78	16.76	1.26	36.44
PK	214.3M	32.55	43.50	-10.95	-20.54	3	Horizontal	0	1.00	53.09	14.04	1.68	36.26
PK	313.24M	25.66	46.00	-20.34	-15.82	3	Horizontal	0	1.00	41.48	18.49	2.10	36.41
PK	718.7M	26.91	46.00	-19.09	-7.81	3	Horizontal	0	1.00	34.72	26.18	3.36	37.35
PK	951.5M	31.38	46.00	-14.62	-3.50	3	Horizontal	0	1.00	34.88	29.98	3.91	37.39



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4835G	53.49	54.00	-0.51	3	Horizontal	27	1.14
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	53.47	54.00	-0.53	3	Horizontal	32	1.17
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.88	54.00	-0.12	3	Horizontal	31	1.30
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.59	54.00	-0.41	3	Horizontal	31	1.11

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389G	50.52	54.00	-3.48	3	Vertical	264	1.01
2412MHz	Pass	AV	2.4128G	110.46	Inf	-Inf	3	Vertical	264	1.01
2412MHz	Pass	PK	2.389G	58.46	74.00	-15.54	3	Vertical	264	1.01
2412MHz	Pass	PK	2.4128G	112.23	Inf	-Inf	3	Vertical	264	1.01
2412MHz	Pass	AV	2.389G	53.41	54.00	-0.59	3	Horizontal	29	1.16
2412MHz	Pass	AV	2.413G	111.65	Inf	-Inf	3	Horizontal	29	1.16
2412MHz	Pass	PK	2.3888G	60.15	74.00	-13.85	3	Horizontal	29	1.16
2412MHz	Pass	PK	2.4128G	113.74	Inf	-Inf	3	Horizontal	29	1.16
2412MHz	Pass	AV	4.82404G	52.61	54.00	-1.39	3	Vertical	344	1.16
2412MHz	Pass	PK	4.82392G	54.62	74.00	-19.38	3	Vertical	344	1.16
2412MHz	Pass	AV	4.82396G	48.36	54.00	-5.64	3	Horizontal	306	1.02
2412MHz	Pass	PK	4.82388G	51.21	74.00	-22.79	3	Horizontal	306	1.02
2417MHz	Pass	AV	2.39G	49.08	54.00	-4.92	3	Vertical	282	1.27
2417MHz	Pass	AV	2.4162G	108.25	Inf	-Inf	3	Vertical	282	1.27
2417MHz	Pass	PK	2.3894G	57.12	74.00	-16.88	3	Vertical	282	1.27
2417MHz	Pass	PK	2.4162G	109.95	Inf	-Inf	3	Vertical	282	1.27
2417MHz	Pass	AV	2.39G	52.96	54.00	-1.04	3	Horizontal	35	1.16
2417MHz	Pass	AV	2.4158G	110.46	Inf	-Inf	3	Horizontal	35	1.16
2417MHz	Pass	PK	2.39G	59.03	74.00	-14.97	3	Horizontal	35	1.16
2417MHz	Pass	PK	2.416G	112.15	Inf	-Inf	3	Horizontal	35	1.16
2437MHz	Pass	AV	2.3622G	46.07	54.00	-7.93	3	Vertical	48	2.76
2437MHz	Pass	AV	2.4362G	111.33	Inf	-Inf	3	Vertical	48	2.76
2437MHz	Pass	AV	2.4998G	46.94	54.00	-7.06	3	Vertical	48	2.76
2437MHz	Pass	PK	2.3402G	56.38	74.00	-17.62	3	Vertical	48	2.76
2437MHz	Pass	PK	2.4378G	113.04	Inf	-Inf	3	Vertical	48	2.76
2437MHz	Pass	PK	2.4862G	57.74	74.00	-16.26	3	Vertical	48	2.76
2437MHz	Pass	AV	2.3682G	45.94	54.00	-8.06	3	Horizontal	24	1.37
2437MHz	Pass	AV	2.4362G	112.65	Inf	-Inf	3	Horizontal	24	1.37
2437MHz	Pass	AV	2.493G	46.98	54.00	-7.02	3	Horizontal	24	1.37
2437MHz	Pass	PK	2.3506G	56.53	74.00	-17.47	3	Horizontal	24	1.37
2437MHz	Pass	PK	2.4362G	114.83	Inf	-Inf	3	Horizontal	24	1.37
2437MHz	Pass	PK	2.4858G	58.12	74.00	-15.88	3	Horizontal	24	1.37
2437MHz	Pass	AV	4.874G	50.94	54.00	-3.06	3	Vertical	11	1.48
2437MHz	Pass	PK	4.87418G	53.40	74.00	-20.60	3	Vertical	11	1.48
2437MHz	Pass	AV	4.874G	45.89	54.00	-8.11	3	Horizontal	28	1.49
2437MHz	Pass	PK	4.874G	48.05	74.00	-25.95	3	Horizontal	28	1.49
2457MHz	Pass	AV	2.456G	109.06	Inf	-Inf	3	Vertical	44	1.57
2457MHz	Pass	AV	2.4838G	52.27	54.00	-1.73	3	Vertical	44	1.57
2457MHz	Pass	PK	2.456G	110.51	Inf	-Inf	3	Vertical	44	1.57
2457MHz	Pass	PK	2.4835G	59.09	74.00	-14.91	3	Vertical	44	1.57
2457MHz	Pass	AV	2.4564G	110.90	Inf	-Inf	3	Horizontal	32	1.29
2457MHz	Pass	AV	2.4838G	53.37	54.00	-0.63	3	Horizontal	32	1.29
2457MHz	Pass	PK	2.4562G	112.75	Inf	-Inf	3	Horizontal	32	1.29
2457MHz	Pass	PK	2.4835G	60.39	74.00	-13.61	3	Horizontal	32	1.29
2462MHz	Pass	AV	2.463G	110.22	Inf	-Inf	3	Vertical	40	1.82
2462MHz	Pass	AV	2.4868G	51.11	54.00	-2.89	3	Vertical	40	1.82
2462MHz	Pass	PK	2.4628G	112.03	Inf	-Inf	3	Vertical	40	1.82
2462MHz	Pass	PK	2.4868G	59.98	74.00	-14.02	3	Vertical	40	1.82
2462MHz	Pass	AV	2.463G	112.48	Inf	-Inf	3	Horizontal	27	1.14
2462MHz	Pass	AV	2.4835G	53.49	54.00	-0.51	3	Horizontal	27	1.14
2462MHz	Pass	PK	2.4628G	114.27	Inf	-Inf	3	Horizontal	27	1.14
2462MHz	Pass	PK	2.4868G	60.03	74.00	-13.97	3	Horizontal	27	1.14
2462MHz	Pass	AV	4.92404G	49.56	54.00	-4.44	3	Vertical	6	1.43
2462MHz	Pass	PK	4.92392G	51.81	74.00	-22.19	3	Vertical	6	1.43
2462MHz	Pass	AV	4.92404G	43.68	54.00	-10.32	3	Horizontal	336	1.50
2462MHz	Pass	PK	4.92412G	47.44	74.00	-26.56	3	Horizontal	336	1.50
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	48.13	54.00	-5.87	3	Vertical	35	3.00
2412MHz	Pass	AV	2.4132G	105.11	Inf	-Inf	3	Vertical	35	3.00
2412MHz	Pass	PK	2.3898G	62.07	74.00	-11.93	3	Vertical	35	3.00

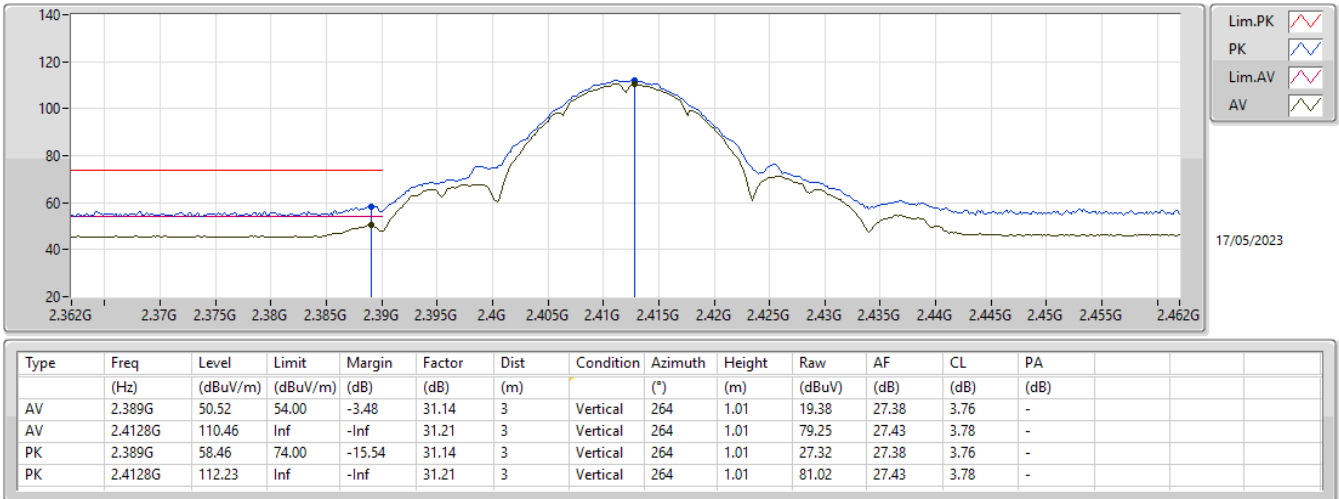
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	PK	2.4136G	115.02	Inf	-Inf	3	Vertical	35	3.00
2412MHz	Pass	AV	2.39G	50.52	54.00	-3.48	3	Horizontal	36	1.13
2412MHz	Pass	AV	2.411G	106.66	Inf	-Inf	3	Horizontal	36	1.13
2412MHz	Pass	PK	2.39G	66.04	74.00	-7.96	3	Horizontal	36	1.13
2412MHz	Pass	PK	2.4112G	116.57	Inf	-Inf	3	Horizontal	36	1.13
2412MHz	Pass	AV	4.824G	32.33	54.00	-21.67	3	Vertical	354	1.00
2412MHz	Pass	PK	4.8237G	44.36	74.00	-29.64	3	Vertical	354	1.00
2412MHz	Pass	AV	4.8258G	33.37	54.00	-20.63	3	Horizontal	11	3.00
2412MHz	Pass	PK	4.8258G	47.51	74.00	-26.49	3	Horizontal	11	3.00
2417MHz	Pass	AV	2.3892G	49.18	54.00	-4.82	3	Vertical	50	2.96
2417MHz	Pass	AV	2.418G	105.43	Inf	-Inf	3	Vertical	50	2.96
2417MHz	Pass	PK	2.3892G	62.87	74.00	-11.13	3	Vertical	50	2.96
2417MHz	Pass	PK	2.4182G	113.13	Inf	-Inf	3	Vertical	50	2.96
2417MHz	Pass	AV	2.39G	53.47	54.00	-0.53	3	Horizontal	32	1.17
2417MHz	Pass	AV	2.416G	107.99	Inf	-Inf	3	Horizontal	32	1.17
2417MHz	Pass	PK	2.39G	64.55	74.00	-9.45	3	Horizontal	32	1.17
2417MHz	Pass	PK	2.416G	115.69	Inf	-Inf	3	Horizontal	32	1.17
2437MHz	Pass	AV	2.3898G	46.20	54.00	-7.80	3	Vertical	48	2.78
2437MHz	Pass	AV	2.4362G	109.51	Inf	-Inf	3	Vertical	48	2.78
2437MHz	Pass	AV	2.4862G	48.11	54.00	-5.89	3	Vertical	48	2.78
2437MHz	Pass	PK	2.3898G	56.32	74.00	-17.68	3	Vertical	48	2.78
2437MHz	Pass	PK	2.4362G	116.86	Inf	-Inf	3	Vertical	48	2.78
2437MHz	Pass	PK	2.4858G	59.82	74.00	-14.18	3	Vertical	48	2.78
2437MHz	Pass	AV	2.3894G	46.98	54.00	-7.02	3	Horizontal	29	1.36
2437MHz	Pass	AV	2.4378G	111.81	Inf	-Inf	3	Horizontal	29	1.36
2437MHz	Pass	AV	2.4835G	51.36	54.00	-2.64	3	Horizontal	29	1.36
2437MHz	Pass	PK	2.3898G	58.16	74.00	-15.84	3	Horizontal	29	1.36
2437MHz	Pass	PK	2.4378G	119.67	Inf	-Inf	3	Horizontal	29	1.36
2437MHz	Pass	PK	2.4835G	63.50	74.00	-10.50	3	Horizontal	29	1.36
2437MHz	Pass	AV	4.87544G	40.72	54.00	-13.28	3	Vertical	13	1.38
2437MHz	Pass	PK	4.87532G	50.36	74.00	-23.64	3	Vertical	13	1.38
2437MHz	Pass	AV	4.8701G	37.09	54.00	-16.91	3	Horizontal	278	1.00
2437MHz	Pass	PK	4.87028G	45.90	74.00	-28.10	3	Horizontal	278	1.00
2457MHz	Pass	AV	2.4562G	106.79	Inf	-Inf	3	Vertical	58	3.00
2457MHz	Pass	AV	2.4852G	51.05	54.00	-2.95	3	Vertical	58	3.00
2457MHz	Pass	PK	2.4558G	114.35	Inf	-Inf	3	Vertical	58	3.00
2457MHz	Pass	PK	2.4856G	62.45	74.00	-11.55	3	Vertical	58	3.00
2457MHz	Pass	AV	2.458G	108.30	Inf	-Inf	3	Horizontal	33	1.33
2457MHz	Pass	AV	2.4835G	53.29	54.00	-0.71	3	Horizontal	33	1.33
2457MHz	Pass	PK	2.4582G	115.92	Inf	-Inf	3	Horizontal	33	1.33
2457MHz	Pass	PK	2.4836G	63.71	74.00	-10.29	3	Horizontal	33	1.33
2462MHz	Pass	AV	2.4614G	102.17	Inf	-Inf	3	Vertical	32	3.00
2462MHz	Pass	AV	2.4835G	52.82	54.00	-1.18	3	Vertical	32	3.00
2462MHz	Pass	PK	2.4614G	111.89	Inf	-Inf	3	Vertical	32	3.00
2462MHz	Pass	PK	2.4835G	65.22	74.00	-8.78	3	Vertical	32	3.00
2462MHz	Pass	AV	2.4632G	102.23	Inf	-Inf	3	Horizontal	29	1.13
2462MHz	Pass	AV	2.4835G	52.97	54.00	-1.03	3	Horizontal	29	1.13
2462MHz	Pass	PK	2.4588G	111.78	Inf	-Inf	3	Horizontal	29	1.13
2462MHz	Pass	PK	2.4835G	65.17	74.00	-8.83	3	Horizontal	29	1.13
2462MHz	Pass	AV	4.92412G	30.35	54.00	-23.65	3	Vertical	350	1.05
2462MHz	Pass	PK	4.91968G	42.94	74.00	-31.06	3	Vertical	350	1.05
2462MHz	Pass	AV	4.92418G	33.11	54.00	-20.89	3	Horizontal	12	2.36
2462MHz	Pass	PK	4.92556G	46.81	74.00	-27.19	3	Horizontal	12	2.36
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.43	54.00	-1.57	3	Vertical	30	2.92
2412MHz	Pass	AV	2.4138G	104.35	Inf	-Inf	3	Vertical	30	2.92
2412MHz	Pass	PK	2.3898G	73.53	74.00	-0.47	3	Vertical	30	2.92
2412MHz	Pass	PK	2.4144G	117.47	Inf	-Inf	3	Vertical	30	2.92
2412MHz	Pass	AV	2.39G	51.76	54.00	-2.24	3	Horizontal	38	1.00
2412MHz	Pass	AV	2.4106G	105.22	Inf	-Inf	3	Horizontal	38	1.00
2412MHz	Pass	PK	2.39G	72.03	74.00	-1.97	3	Horizontal	38	1.00
2412MHz	Pass	PK	2.4102G	117.77	Inf	-Inf	3	Horizontal	38	1.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	AV	4.82688G	48.22	54.00	-5.78	3	Vertical	340	2.59
2412MHz	Pass	PK	4.82604G	51.67	74.00	-22.33	3	Vertical	340	2.59
2412MHz	Pass	AV	4.82388G	41.18	54.00	-12.82	3	Horizontal	150	2.43
2412MHz	Pass	PK	4.8188G	44.45	74.00	-29.55	3	Horizontal	150	2.43
2417MHz	Pass	AV	2.388G	45.81	54.00	-8.19	3	Vertical	51	3.00
2417MHz	Pass	AV	2.4152G	104.05	Inf	-Inf	3	Vertical	51	3.00
2417MHz	Pass	PK	2.3888G	58.10	74.00	-15.90	3	Vertical	51	3.00
2417MHz	Pass	PK	2.4154G	114.98	Inf	-Inf	3	Vertical	51	3.00
2417MHz	Pass	AV	2.39G	53.79	54.00	-0.21	3	Horizontal	31	1.35
2417MHz	Pass	AV	2.419G	105.71	Inf	-Inf	3	Horizontal	31	1.35
2417MHz	Pass	PK	2.39G	66.03	74.00	-7.97	3	Horizontal	31	1.35
2417MHz	Pass	PK	2.4184G	117.63	Inf	-Inf	3	Horizontal	31	1.35
2437MHz	Pass	AV	2.389G	45.16	54.00	-8.84	3	Vertical	50	2.75
2437MHz	Pass	AV	2.4362G	108.01	Inf	-Inf	3	Vertical	50	2.75
2437MHz	Pass	AV	2.4842G	49.41	54.00	-4.59	3	Vertical	50	2.75
2437MHz	Pass	PK	2.387G	56.81	74.00	-17.19	3	Vertical	50	2.75
2437MHz	Pass	PK	2.4366G	118.31	Inf	-Inf	3	Vertical	50	2.75
2437MHz	Pass	PK	2.4842G	61.43	74.00	-12.57	3	Vertical	50	2.75
2437MHz	Pass	AV	2.3898G	48.43	54.00	-5.57	3	Horizontal	30	1.58
2437MHz	Pass	AV	2.4378G	110.33	Inf	-Inf	3	Horizontal	30	1.58
2437MHz	Pass	AV	2.4835G	48.58	54.00	-5.42	3	Horizontal	30	1.58
2437MHz	Pass	PK	2.3882G	59.33	74.00	-14.67	3	Horizontal	30	1.58
2437MHz	Pass	PK	2.4386G	120.75	Inf	-Inf	3	Horizontal	30	1.58
2437MHz	Pass	PK	2.4835G	61.84	74.00	-12.16	3	Horizontal	30	1.58
2437MHz	Pass	AV	4.87574G	39.63	54.00	-14.37	3	Vertical	11	1.46
2437MHz	Pass	PK	4.877G	48.63	74.00	-25.37	3	Vertical	11	1.46
2437MHz	Pass	AV	4.86764G	36.25	54.00	-17.75	3	Horizontal	289	1.03
2437MHz	Pass	PK	4.86626G	45.70	74.00	-28.30	3	Horizontal	289	1.03
2457MHz	Pass	AV	2.4558G	104.63	Inf	-Inf	3	Vertical	58	3.00
2457MHz	Pass	AV	2.4836G	53.02	54.00	-0.98	3	Vertical	58	3.00
2457MHz	Pass	PK	2.4558G	115.31	Inf	-Inf	3	Vertical	58	3.00
2457MHz	Pass	PK	2.4836G	66.14	74.00	-7.86	3	Vertical	58	3.00
2457MHz	Pass	AV	2.4584G	106.73	Inf	-Inf	3	Horizontal	31	1.30
2457MHz	Pass	AV	2.4835G	53.88	54.00	-0.12	3	Horizontal	31	1.30
2457MHz	Pass	PK	2.4586G	117.85	Inf	-Inf	3	Horizontal	31	1.30
2457MHz	Pass	PK	2.4835G	67.17	74.00	-6.83	3	Horizontal	31	1.30
2462MHz	Pass	AV	2.4608G	100.58	Inf	-Inf	3	Vertical	22	1.43
2462MHz	Pass	AV	2.4835G	52.24	54.00	-1.76	3	Vertical	22	1.43
2462MHz	Pass	PK	2.461G	113.57	Inf	-Inf	3	Vertical	22	1.43
2462MHz	Pass	PK	2.4862G	72.86	74.00	-1.14	3	Vertical	22	1.43
2462MHz	Pass	AV	2.4634G	99.83	Inf	-Inf	3	Horizontal	35	1.30
2462MHz	Pass	AV	2.4836G	50.99	54.00	-3.01	3	Horizontal	35	1.30
2462MHz	Pass	PK	2.4642G	113.13	Inf	-Inf	3	Horizontal	35	1.30
2462MHz	Pass	PK	2.4835G	69.83	74.00	-4.17	3	Horizontal	35	1.30
2462MHz	Pass	AV	4.92432G	28.51	54.00	-25.49	3	Vertical	328	2.19
2462MHz	Pass	PK	4.92184G	42.47	74.00	-31.53	3	Vertical	328	2.19
2462MHz	Pass	AV	4.92408G	28.44	54.00	-25.56	3	Horizontal	86	1.46
2462MHz	Pass	PK	4.91476G	42.44	74.00	-31.56	3	Horizontal	86	1.46
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	50.63	54.00	-3.37	3	Vertical	29	2.92
2422MHz	Pass	AV	2.4156G	99.10	Inf	-Inf	3	Vertical	29	2.92
2422MHz	Pass	AV	2.4864G	45.67	54.00	-8.33	3	Vertical	29	2.92
2422MHz	Pass	PK	2.39G	63.72	74.00	-10.28	3	Vertical	29	2.92
2422MHz	Pass	PK	2.416G	112.35	Inf	-Inf	3	Vertical	29	2.92
2422MHz	Pass	PK	2.4888G	58.74	74.00	-15.26	3	Vertical	29	2.92
2422MHz	Pass	AV	2.39G	53.55	54.00	-0.45	3	Horizontal	26	1.13
2422MHz	Pass	AV	2.42G	100.10	Inf	-Inf	3	Horizontal	26	1.13
2422MHz	Pass	AV	2.4844G	45.49	54.00	-8.51	3	Horizontal	26	1.13
2422MHz	Pass	PK	2.39G	68.68	74.00	-5.32	3	Horizontal	26	1.13
2422MHz	Pass	PK	2.4188G	112.47	Inf	-Inf	3	Horizontal	26	1.13
2422MHz	Pass	PK	2.4892G	61.62	74.00	-12.38	3	Horizontal	26	1.13
2422MHz	Pass	AV	4.83444G	28.03	54.00	-25.97	3	Vertical	140	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2422MHz	Pass	PK	4.835G	41.85	74.00	-32.15	3	Vertical	140	1.50
2422MHz	Pass	AV	4.84048G	28.03	54.00	-25.97	3	Horizontal	285	1.85
2422MHz	Pass	PK	4.83796G	41.79	74.00	-32.21	3	Horizontal	285	1.85
2427MHz	Pass	AV	2.3898G	52.29	54.00	-1.71	3	Vertical	31	2.83
2427MHz	Pass	AV	2.4298G	98.45	Inf	-Inf	3	Vertical	31	2.83
2427MHz	Pass	AV	2.4835G	49.33	54.00	-4.67	3	Vertical	31	2.83
2427MHz	Pass	PK	2.3898G	65.35	74.00	-8.65	3	Vertical	31	2.83
2427MHz	Pass	PK	2.4298G	110.70	Inf	-Inf	3	Vertical	31	2.83
2427MHz	Pass	PK	2.4838G	62.72	74.00	-11.28	3	Vertical	31	2.83
2427MHz	Pass	AV	2.3898G	52.77	54.00	-1.23	3	Horizontal	27	1.49
2427MHz	Pass	AV	2.425G	99.55	Inf	-Inf	3	Horizontal	27	1.49
2427MHz	Pass	AV	2.4858G	49.70	54.00	-4.30	3	Horizontal	27	1.49
2427MHz	Pass	PK	2.3898G	69.58	74.00	-4.42	3	Horizontal	27	1.49
2427MHz	Pass	PK	2.4242G	111.64	Inf	-Inf	3	Horizontal	27	1.49
2427MHz	Pass	PK	2.4862G	65.15	74.00	-8.85	3	Horizontal	27	1.49
2437MHz	Pass	AV	2.3898G	49.17	54.00	-4.83	3	Vertical	27	2.89
2437MHz	Pass	AV	2.4358G	100.69	Inf	-Inf	3	Vertical	27	2.89
2437MHz	Pass	AV	2.4835G	53.39	54.00	-0.61	3	Vertical	27	2.89
2437MHz	Pass	PK	2.3894G	62.74	74.00	-11.26	3	Vertical	27	2.89
2437MHz	Pass	PK	2.4354G	113.76	Inf	-Inf	3	Vertical	27	2.89
2437MHz	Pass	PK	2.4842G	67.37	74.00	-6.63	3	Vertical	27	2.89
2437MHz	Pass	AV	2.3898G	51.89	54.00	-2.11	3	Horizontal	26	1.18
2437MHz	Pass	AV	2.4386G	101.54	Inf	-Inf	3	Horizontal	26	1.18
2437MHz	Pass	AV	2.4858G	51.87	54.00	-2.13	3	Horizontal	26	1.18
2437MHz	Pass	PK	2.3898G	67.20	74.00	-6.80	3	Horizontal	26	1.18
2437MHz	Pass	PK	2.4398G	114.19	Inf	-Inf	3	Horizontal	26	1.18
2437MHz	Pass	PK	2.4854G	67.47	74.00	-6.53	3	Horizontal	26	1.18
2437MHz	Pass	AV	4.87392G	30.15	54.00	-23.85	3	Vertical	354	1.36
2437MHz	Pass	PK	4.87208G	42.52	74.00	-31.48	3	Vertical	354	1.36
2437MHz	Pass	AV	4.87392G	32.66	54.00	-21.34	3	Horizontal	16	1.00
2437MHz	Pass	PK	4.87424G	45.73	74.00	-28.27	3	Horizontal	16	1.00
2447MHz	Pass	AV	2.3898G	45.76	54.00	-8.24	3	Vertical	29	2.88
2447MHz	Pass	AV	2.4454G	102.00	Inf	-Inf	3	Vertical	29	2.88
2447MHz	Pass	AV	2.4858G	52.97	54.00	-1.03	3	Vertical	29	2.88
2447MHz	Pass	PK	2.3734G	57.92	74.00	-16.08	3	Vertical	29	2.88
2447MHz	Pass	PK	2.445G	113.71	Inf	-Inf	3	Vertical	29	2.88
2447MHz	Pass	PK	2.4835G	68.61	74.00	-5.39	3	Vertical	29	2.88
2447MHz	Pass	AV	2.3898G	45.59	54.00	-8.41	3	Horizontal	36	1.01
2447MHz	Pass	AV	2.4498G	102.32	Inf	-Inf	3	Horizontal	36	1.01
2447MHz	Pass	AV	2.4835G	50.15	54.00	-3.85	3	Horizontal	36	1.01
2447MHz	Pass	PK	2.3898G	58.68	74.00	-15.32	3	Horizontal	36	1.01
2447MHz	Pass	PK	2.449G	115.55	Inf	-Inf	3	Horizontal	36	1.01
2447MHz	Pass	PK	2.4838G	64.88	74.00	-9.12	3	Horizontal	36	1.01
2452MHz	Pass	AV	2.39G	44.54	54.00	-9.46	3	Vertical	29	2.88
2452MHz	Pass	AV	2.4504G	101.61	Inf	-Inf	3	Vertical	29	2.88
2452MHz	Pass	AV	2.4835G	52.43	54.00	-1.57	3	Vertical	29	2.88
2452MHz	Pass	PK	2.3892G	57.49	74.00	-16.51	3	Vertical	29	2.88
2452MHz	Pass	PK	2.45G	114.49	Inf	-Inf	3	Vertical	29	2.88
2452MHz	Pass	PK	2.4872G	66.79	74.00	-7.21	3	Vertical	29	2.88
2452MHz	Pass	AV	2.39G	47.20	54.00	-6.80	3	Horizontal	31	1.11
2452MHz	Pass	AV	2.4536G	99.78	Inf	-Inf	3	Horizontal	31	1.11
2452MHz	Pass	AV	2.4835G	53.59	54.00	-0.41	3	Horizontal	31	1.11
2452MHz	Pass	PK	2.39G	63.97	74.00	-10.03	3	Horizontal	31	1.11
2452MHz	Pass	PK	2.4544G	112.43	Inf	-Inf	3	Horizontal	31	1.11
2452MHz	Pass	PK	2.488G	71.95	74.00	-2.05	3	Horizontal	31	1.11
2452MHz	Pass	AV	4.90392G	29.73	54.00	-24.27	3	Vertical	351	2.62
2452MHz	Pass	PK	4.8928G	42.31	74.00	-31.69	3	Vertical	351	2.62
2452MHz	Pass	AV	4.90408G	30.67	54.00	-23.33	3	Horizontal	44	1.50
2452MHz	Pass	PK	4.90216G	43.09	74.00	-30.91	3	Horizontal	44	1.50

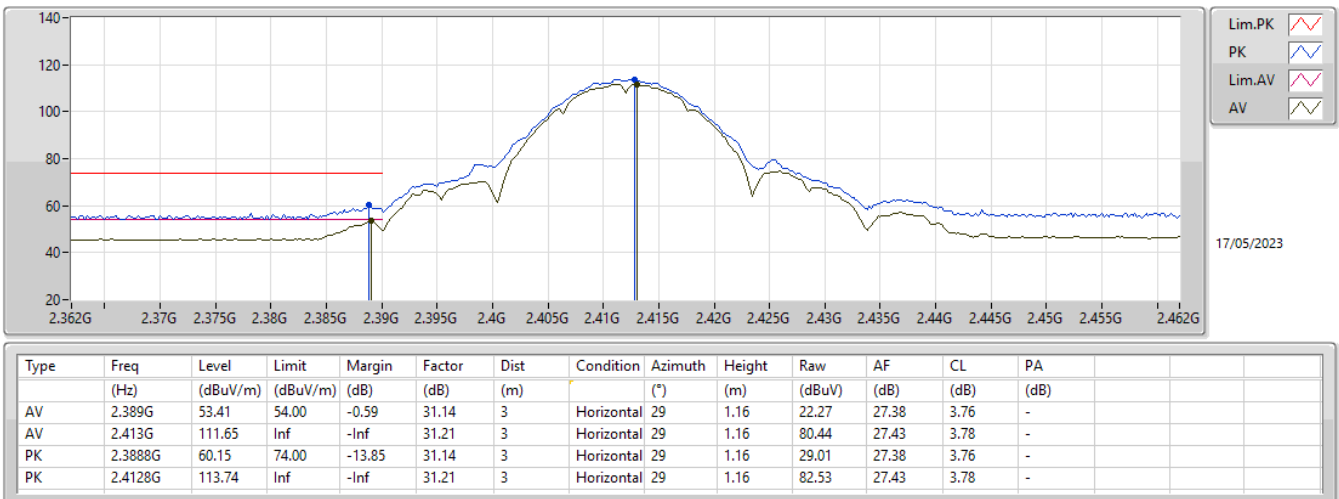
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2412MHz_TX



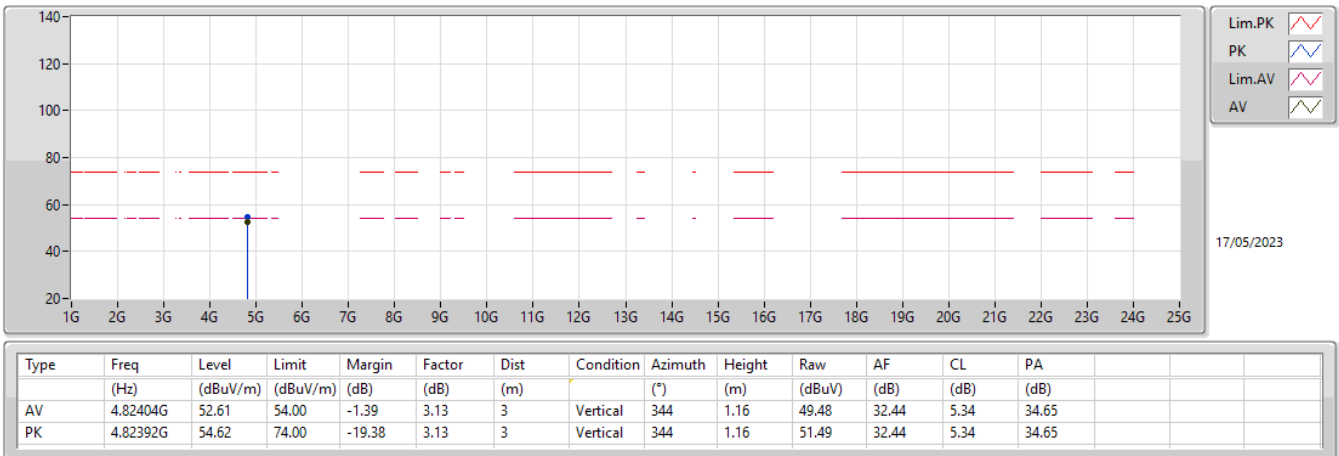
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2412MHz_TX



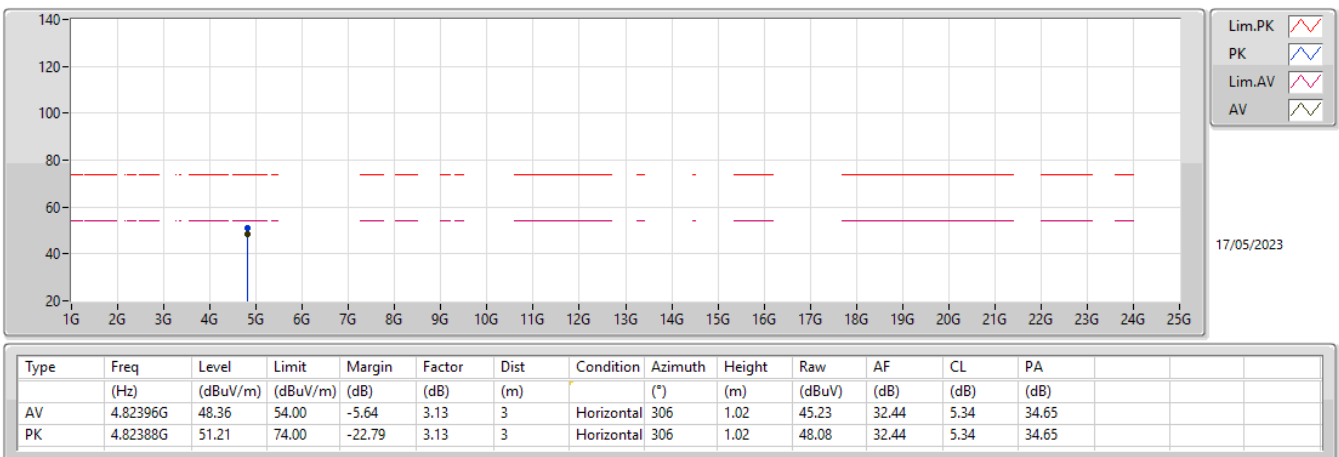
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2412MHz_TX



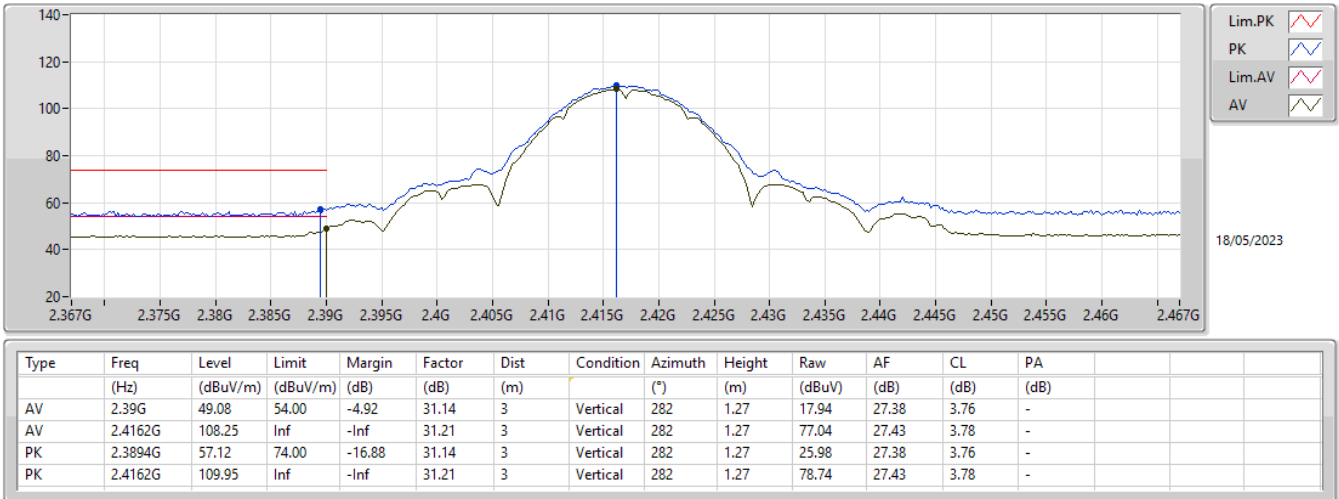
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2412MHz_TX



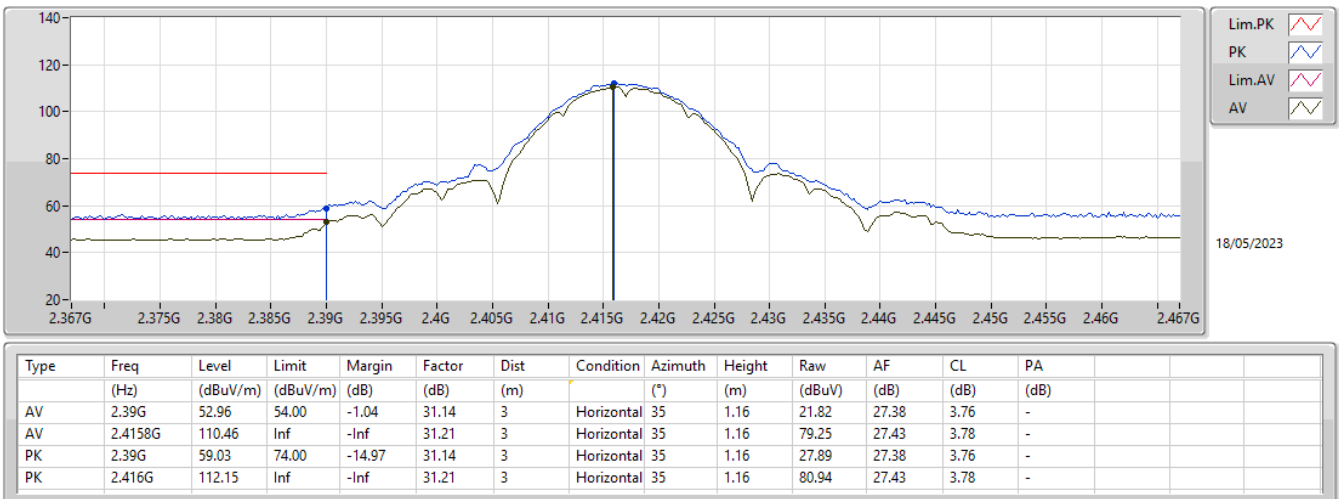
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2417MHz_TX



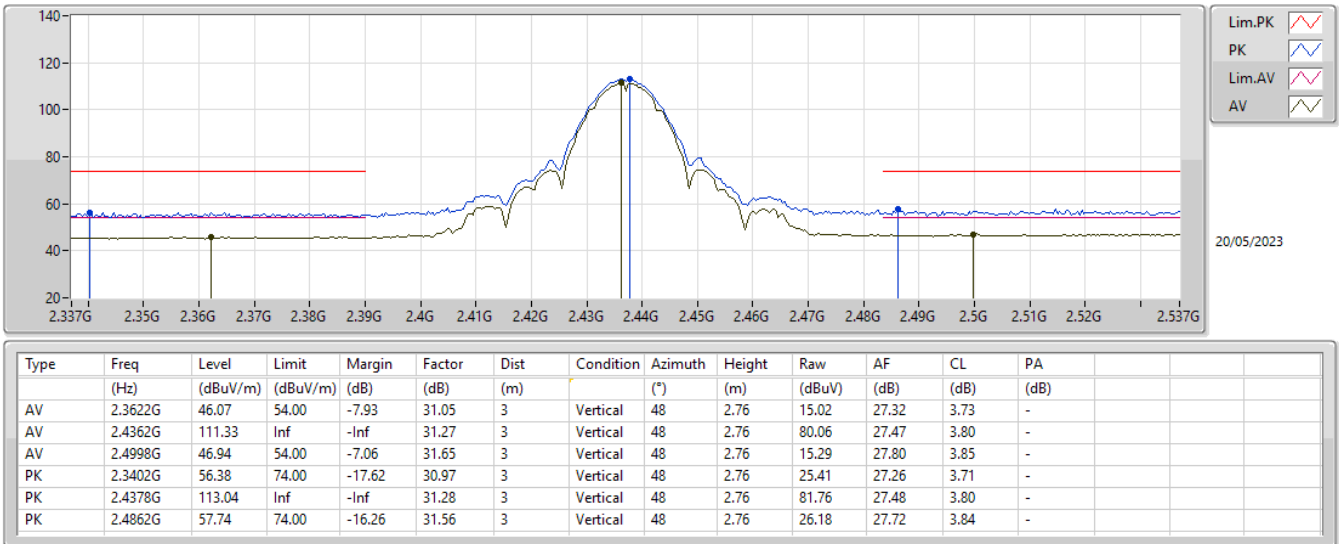
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2417MHz_TX



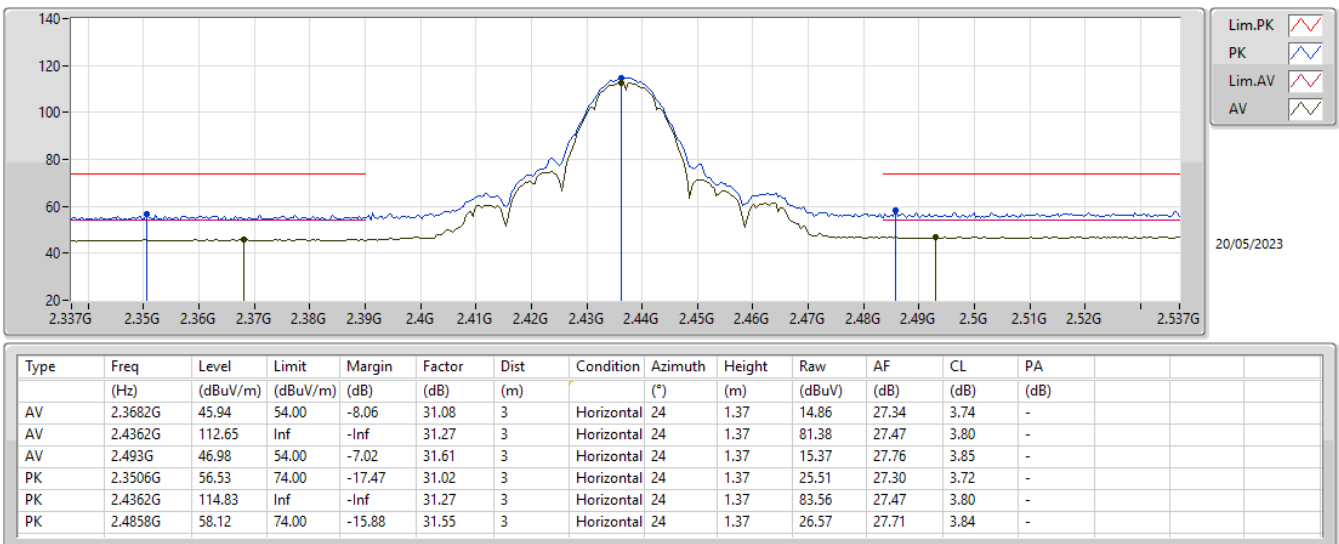
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2437MHz_TX



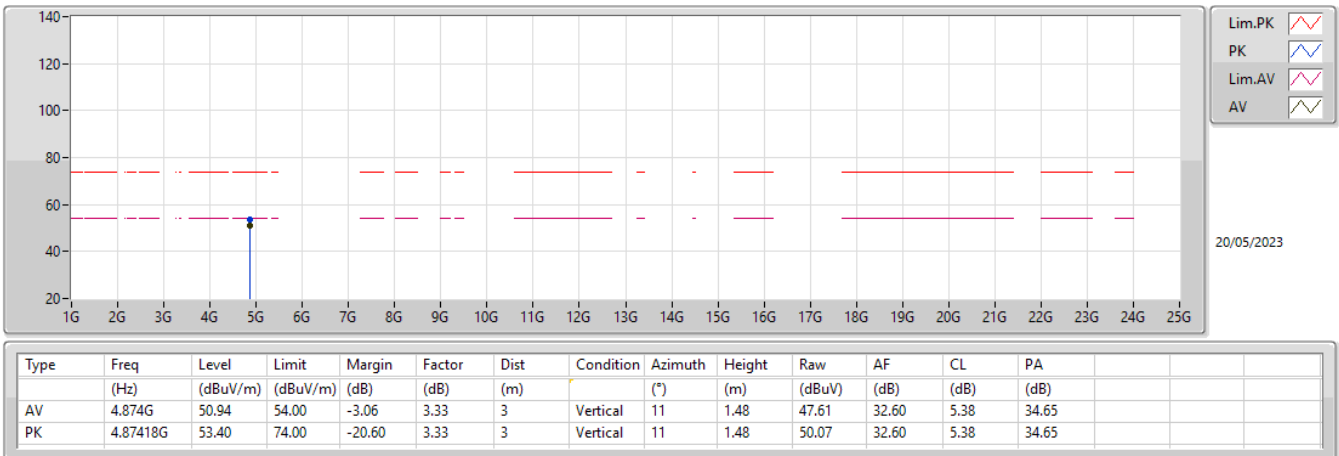
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2437MHz_TX



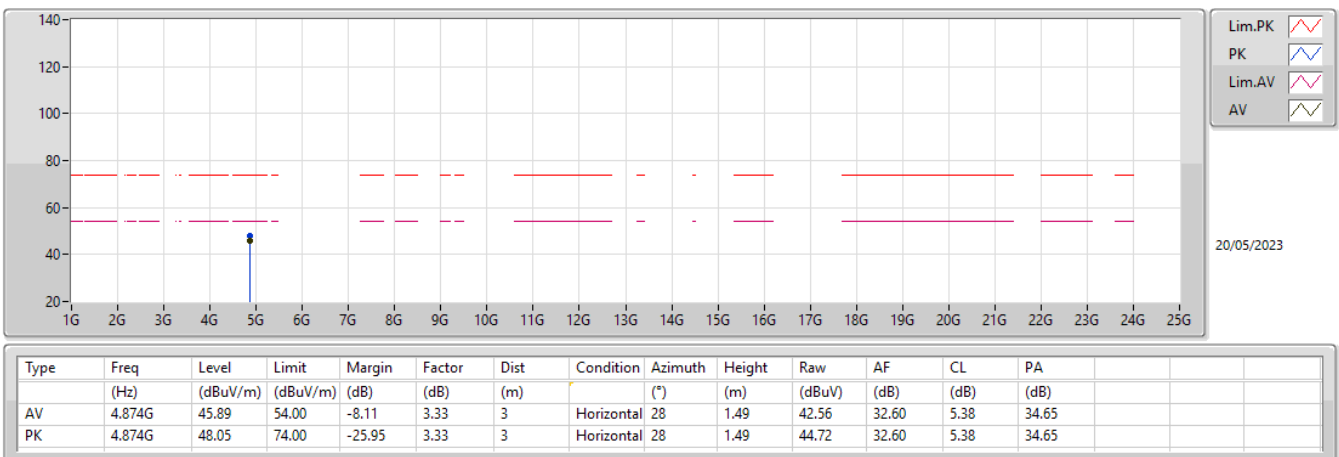
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2437MHz_TX



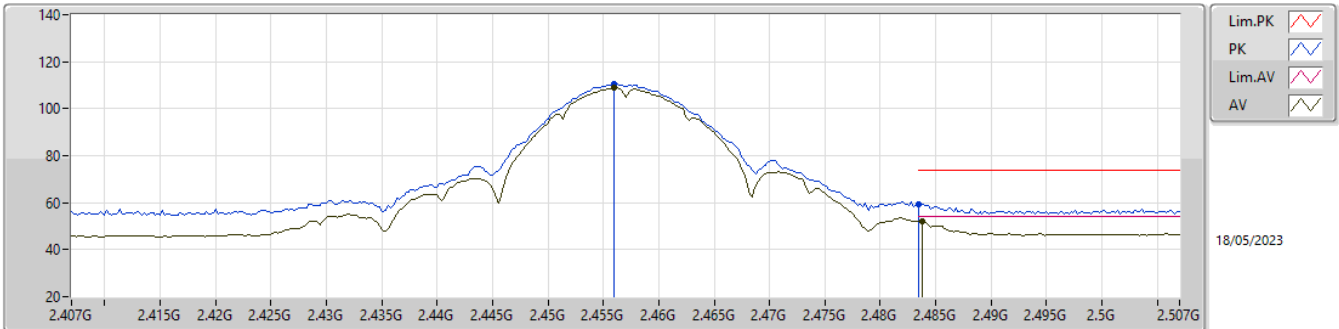
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2437MHz_TX



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

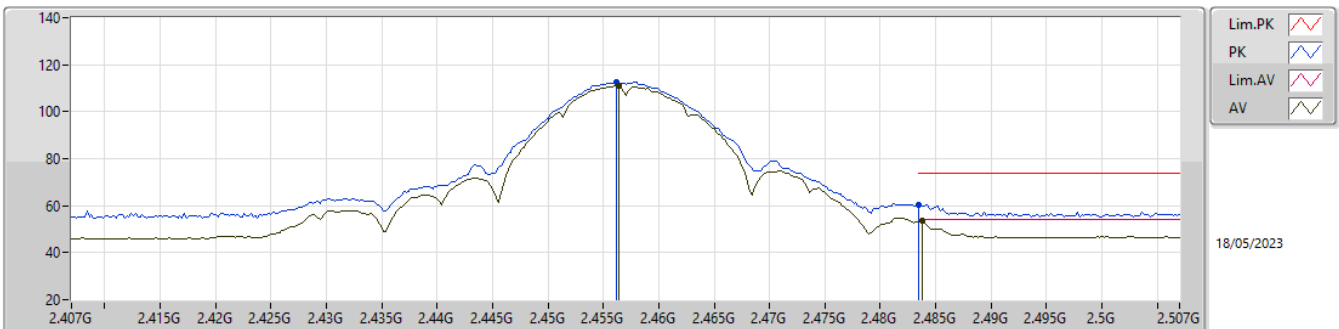
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Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.456G	109.06	Inf	-Inf	31.36	3	Vertical	44	1.57	77.70	27.54	3.82	-
AV	2.4838G	52.27	54.00	-1.73	31.54	3	Vertical	44	1.57	20.73	27.70	3.84	-
PK	2.456G	110.51	Inf	-Inf	31.36	3	Vertical	44	1.57	79.15	27.54	3.82	-
PK	2.4835G	59.09	74.00	-14.91	31.54	3	Vertical	44	1.57	27.55	27.70	3.84	-

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

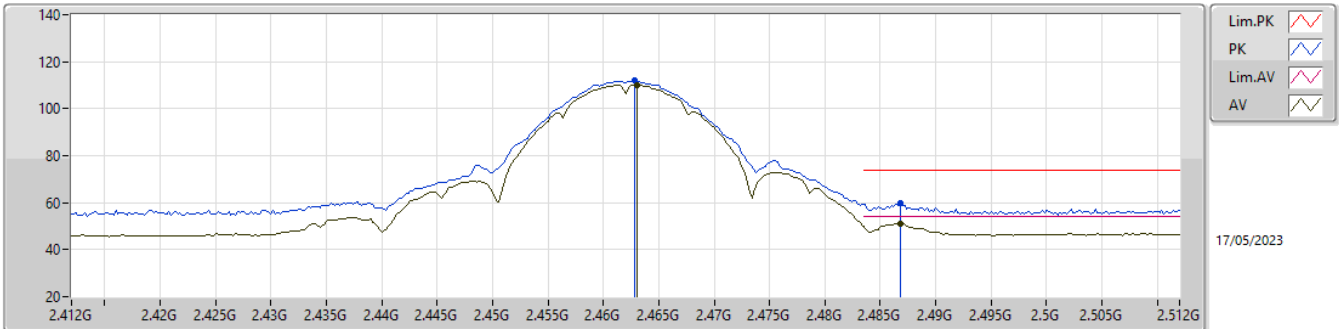
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4564G	110.90	Inf	-Inf	31.36	3	Horizontal	32	1.29	79.54	27.54	3.82	-
AV	2.4838G	53.37	54.00	-0.63	31.54	3	Horizontal	32	1.29	21.83	27.70	3.84	-
PK	2.4562G	112.75	Inf	-Inf	31.36	3	Horizontal	32	1.29	81.39	27.54	3.82	-
PK	2.4835G	60.39	74.00	-13.61	31.54	3	Horizontal	32	1.29	28.85	27.70	3.84	-

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

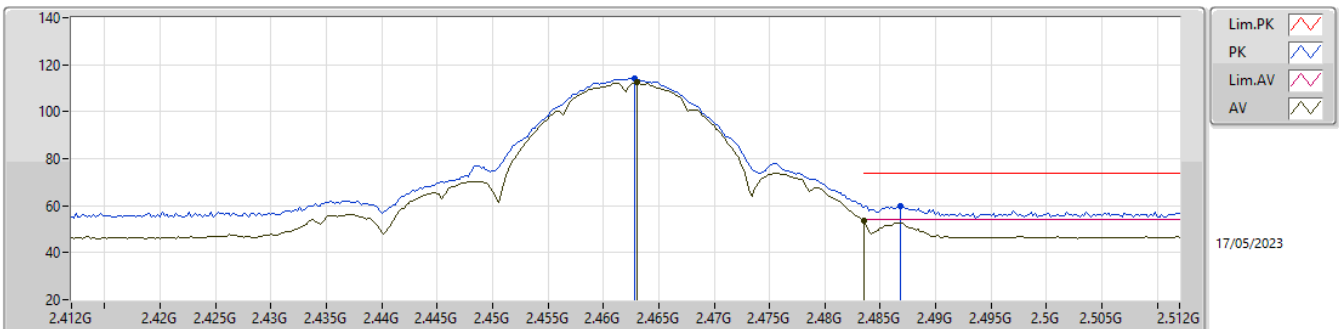
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.463G	110.22	Inf	-Inf	31.40	3	Vertical	40	1.82	78.82	27.58	3.82	-
AV	2.4868G	51.11	54.00	-2.89	31.56	3	Vertical	40	1.82	19.55	27.72	3.84	-
PK	2.4628G	112.03	Inf	-Inf	31.40	3	Vertical	40	1.82	80.63	27.58	3.82	-
PK	2.4868G	59.98	74.00	-14.02	31.56	3	Vertical	40	1.82	28.42	27.72	3.84	-

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

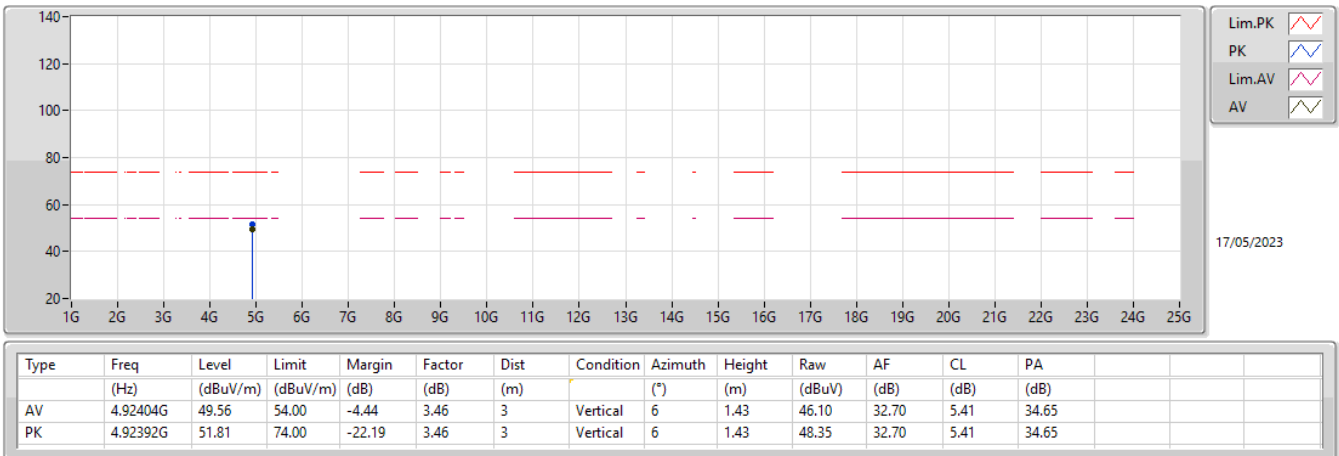
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.463G	112.48	Inf	-Inf	31.40	3	Horizontal	27	1.14	81.08	27.58	3.82	-
AV	2.4835G	53.49	54.00	-0.51	31.54	3	Horizontal	27	1.14	21.95	27.70	3.84	-
PK	2.4628G	114.27	Inf	-Inf	31.40	3	Horizontal	27	1.14	82.87	27.58	3.82	-
PK	2.4868G	60.03	74.00	-13.97	31.56	3	Horizontal	27	1.14	28.47	27.72	3.84	-

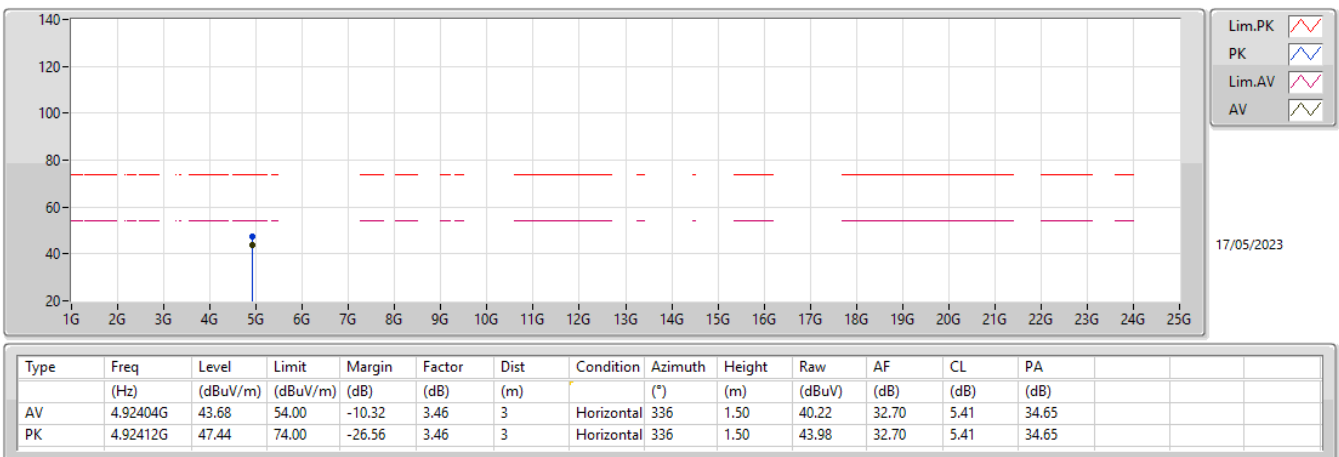
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX



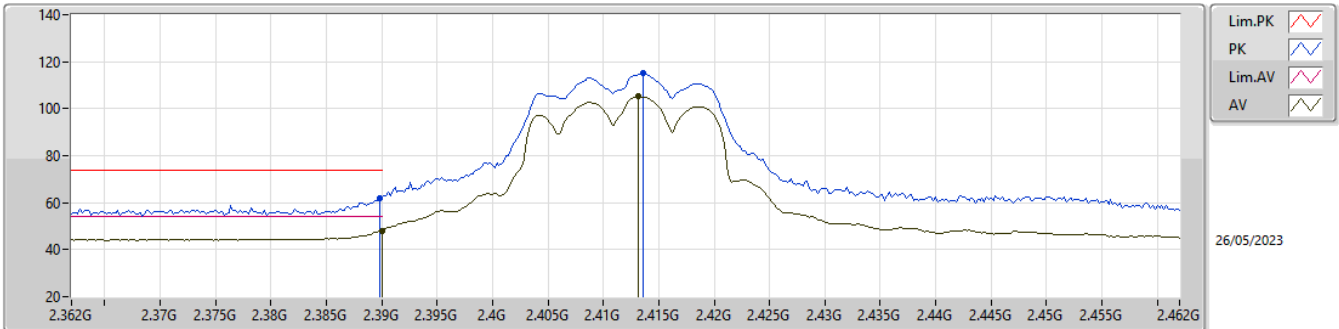
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX



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

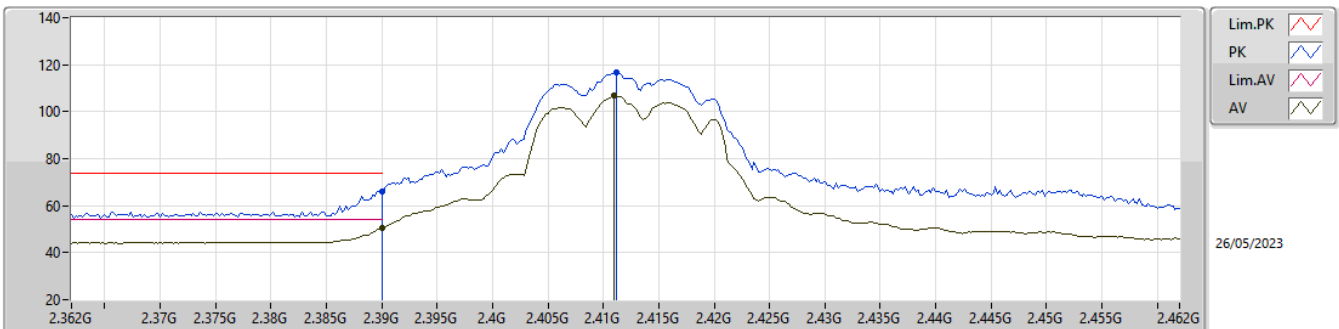
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.13	54.00	-5.87	31.77	3	Vertical	35	3.00	16.36	27.52	4.25	-
AV	2.4132G	105.11	Inf	-Inf	31.90	3	Vertical	35	3.00	73.21	27.63	4.27	-
PK	2.3898G	62.07	74.00	-11.93	31.77	3	Vertical	35	3.00	30.30	27.52	4.25	-
PK	2.4136G	115.02	Inf	-Inf	31.90	3	Vertical	35	3.00	83.12	27.63	4.27	-

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

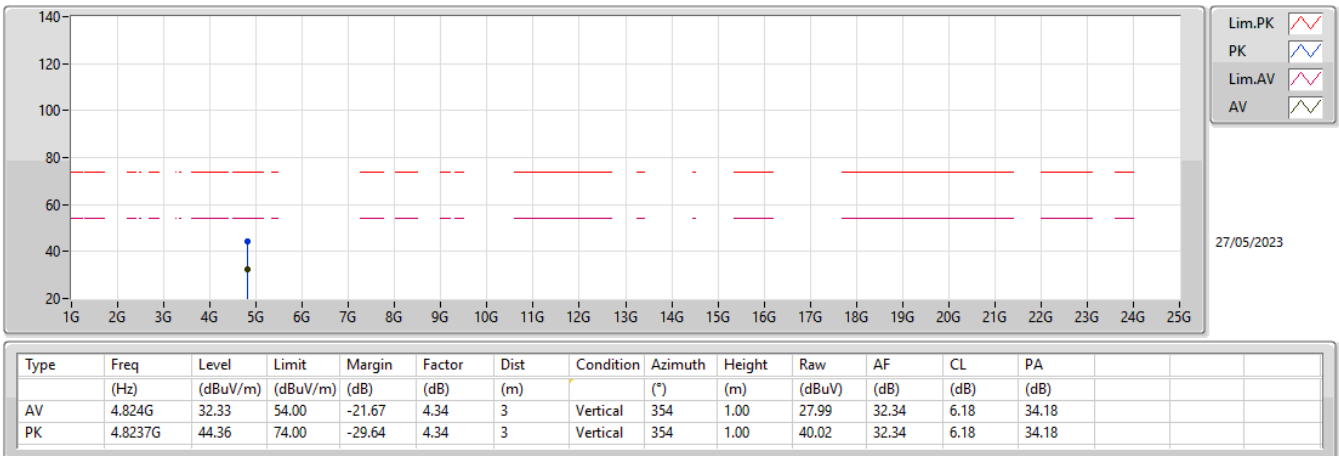
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.52	54.00	-3.48	31.77	3	Horizontal	36	1.13	18.75	27.52	4.25	-
AV	2.411G	106.66	Inf	-Inf	31.89	3	Horizontal	36	1.13	74.77	27.62	4.27	-
PK	2.39G	66.04	74.00	-7.96	31.77	3	Horizontal	36	1.13	34.27	27.52	4.25	-
PK	2.4112G	116.57	Inf	-Inf	31.89	3	Horizontal	36	1.13	84.68	27.62	4.27	-

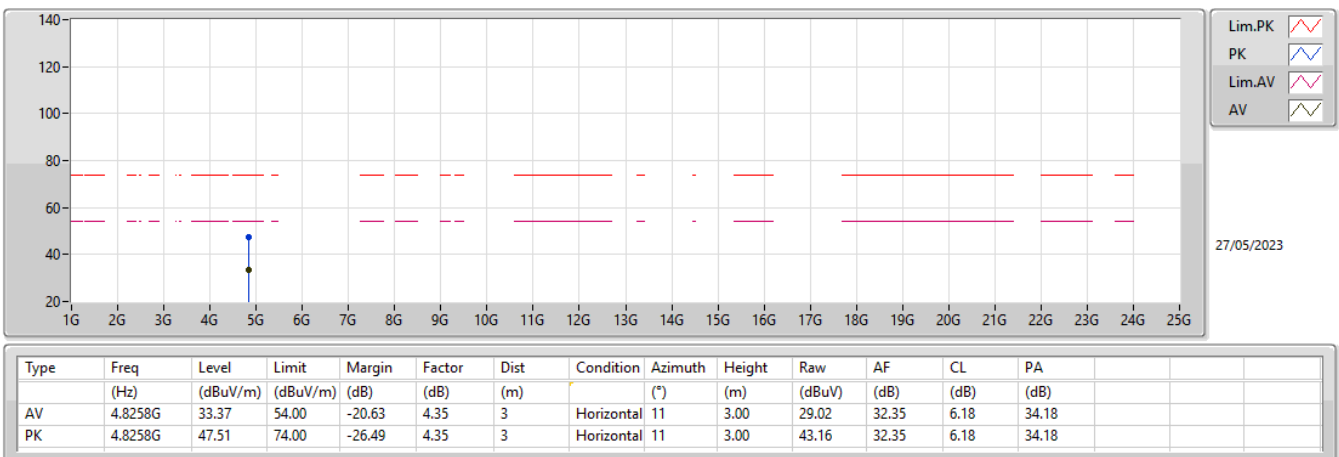
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX



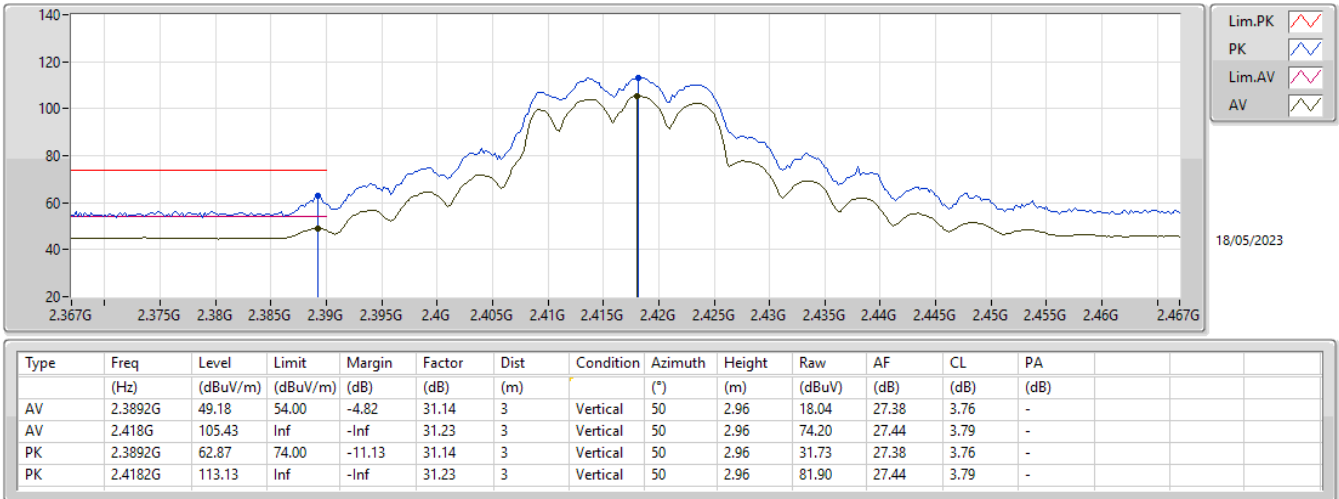
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX



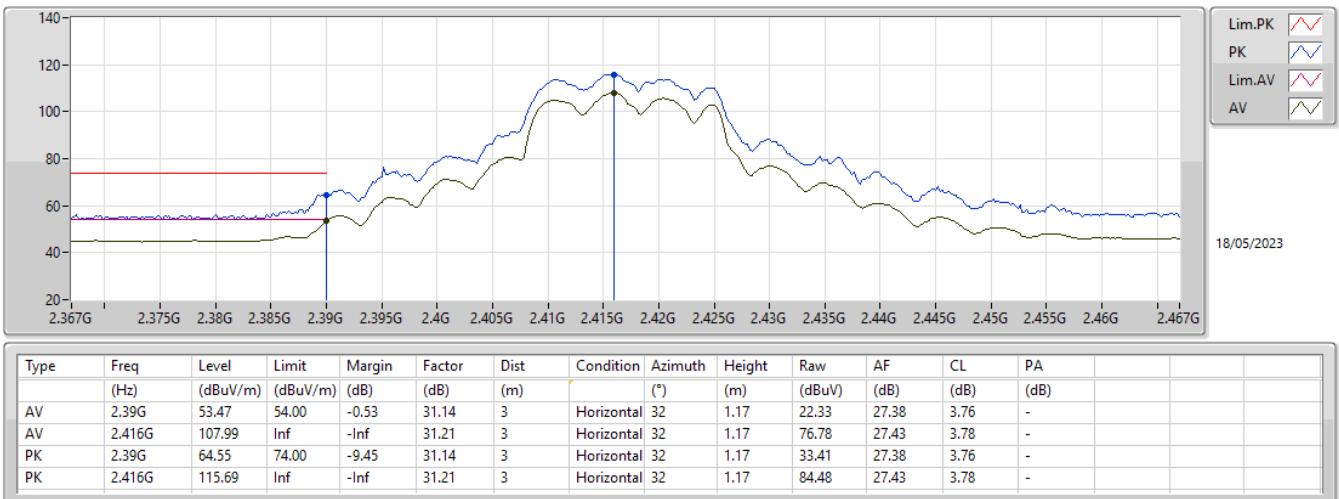
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX



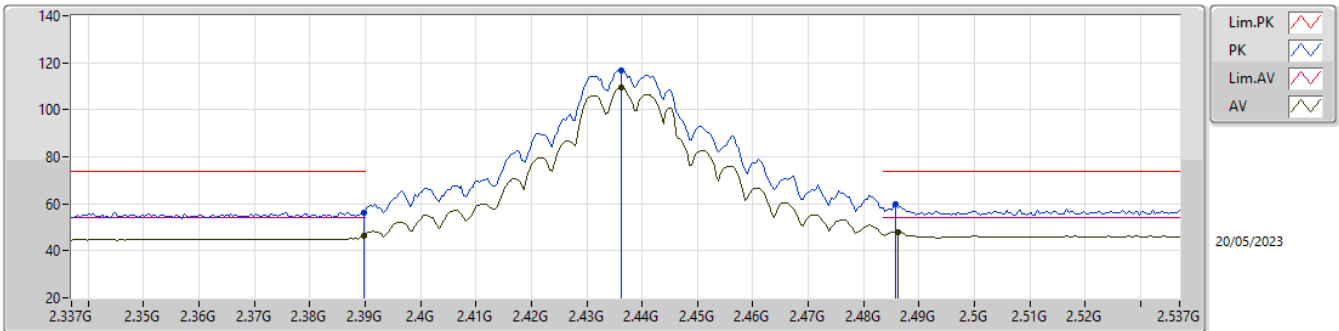
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX



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

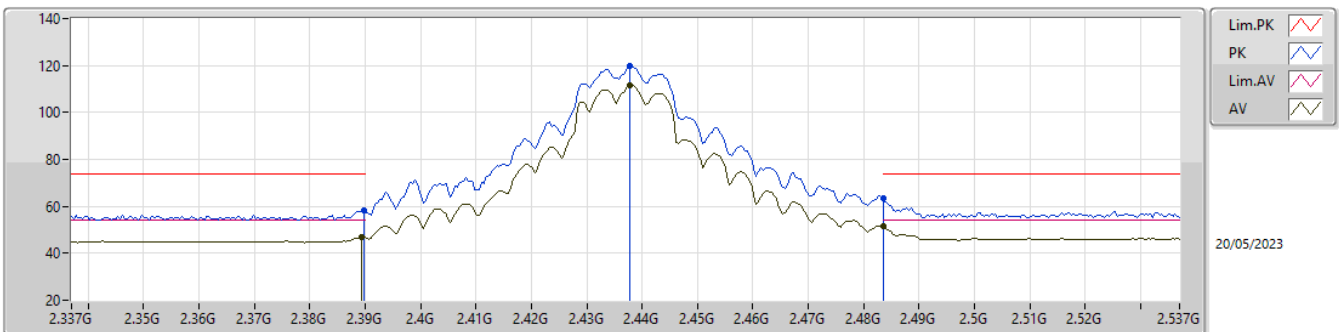
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	46.20	54.00	-7.80	31.14	3	Vertical	48	2.78	15.06	27.38	3.76	-
AV	2.4362G	109.51	Inf	-Inf	31.27	3	Vertical	48	2.78	78.24	27.47	3.80	-
AV	2.4862G	48.11	54.00	-5.89	31.56	3	Vertical	48	2.78	16.55	27.72	3.84	-
PK	2.3898G	56.32	74.00	-17.68	31.14	3	Vertical	48	2.78	25.18	27.38	3.76	-
PK	2.4362G	116.86	Inf	-Inf	31.27	3	Vertical	48	2.78	85.59	27.47	3.80	-
PK	2.4858G	59.82	74.00	-14.18	31.55	3	Vertical	48	2.78	28.27	27.71	3.84	-

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

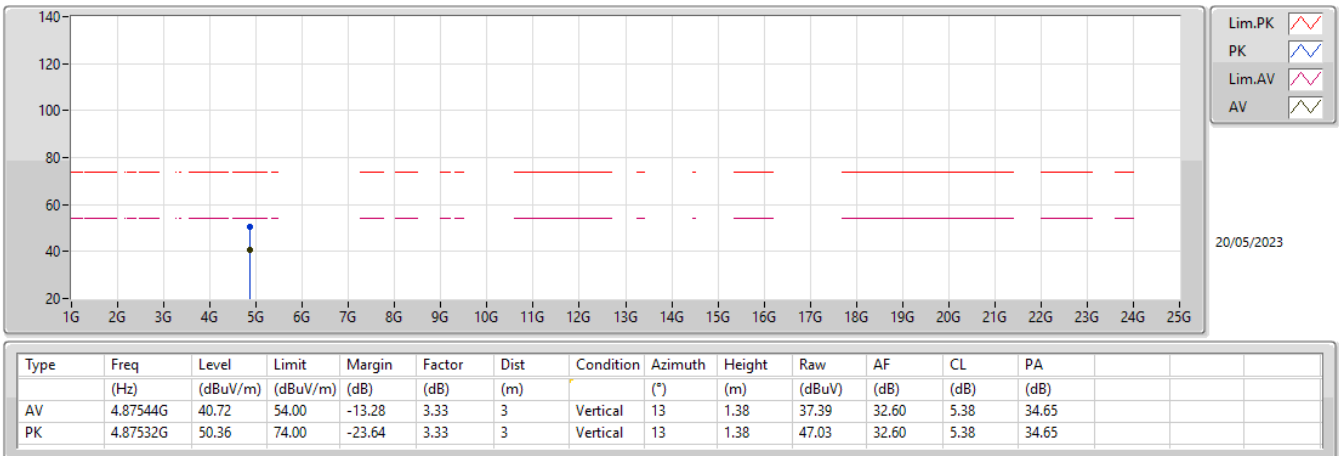
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	46.98	54.00	-7.02	31.14	3	Horizontal	29	1.36	15.84	27.38	3.76	-
AV	2.4378G	111.81	Inf	-Inf	31.28	3	Horizontal	29	1.36	80.53	27.48	3.80	-
AV	2.4835G	51.36	54.00	-2.64	31.54	3	Horizontal	29	1.36	19.82	27.70	3.84	-
PK	2.3898G	58.16	74.00	-15.84	31.14	3	Horizontal	29	1.36	27.02	27.38	3.76	-
PK	2.4378G	119.67	Inf	-Inf	31.28	3	Horizontal	29	1.36	88.39	27.48	3.80	-
PK	2.4835G	63.50	74.00	-10.50	31.54	3	Horizontal	29	1.36	31.96	27.70	3.84	-

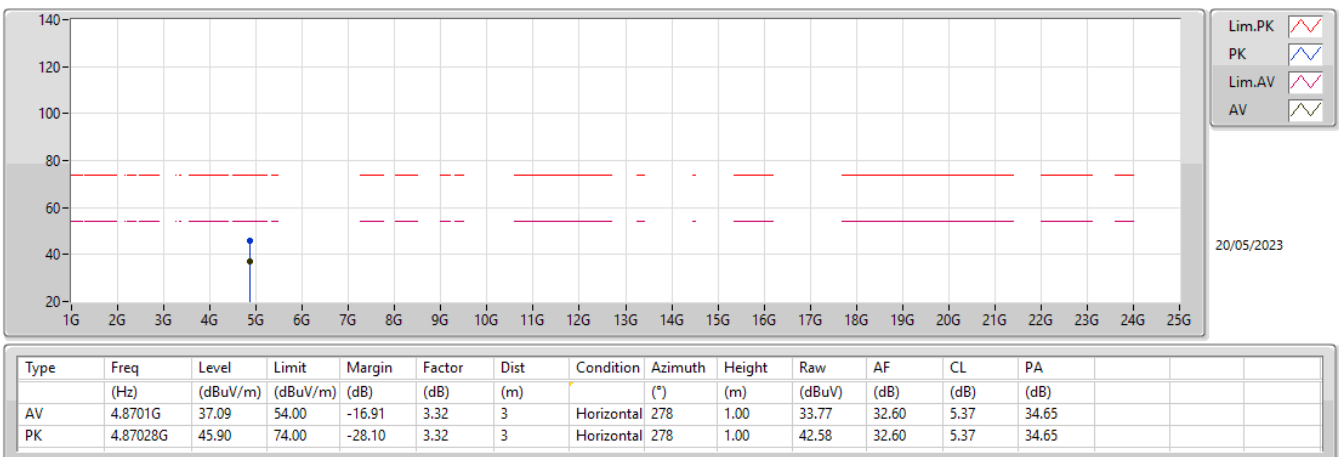
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX



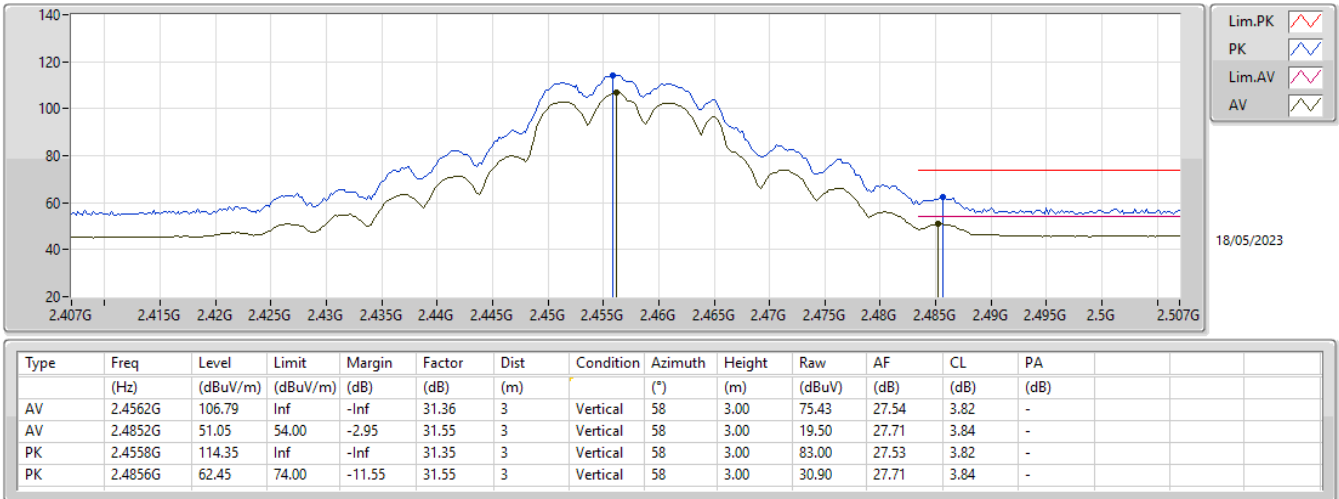
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX



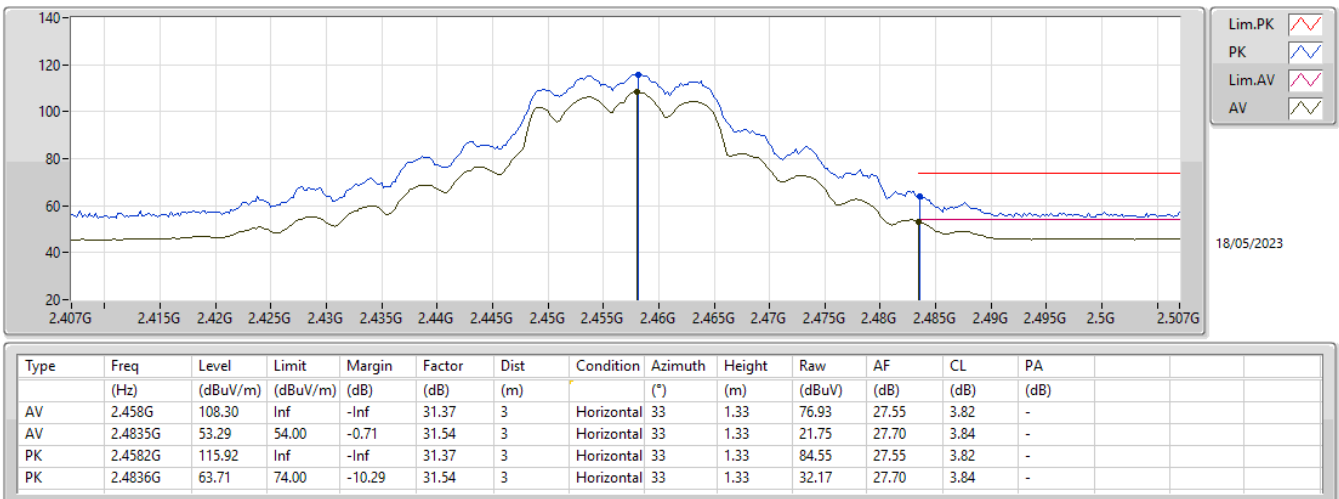
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX



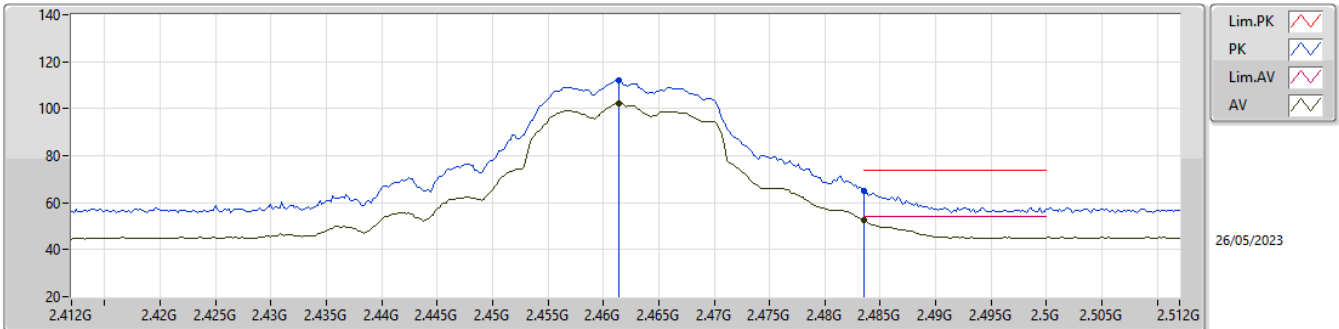
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX



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

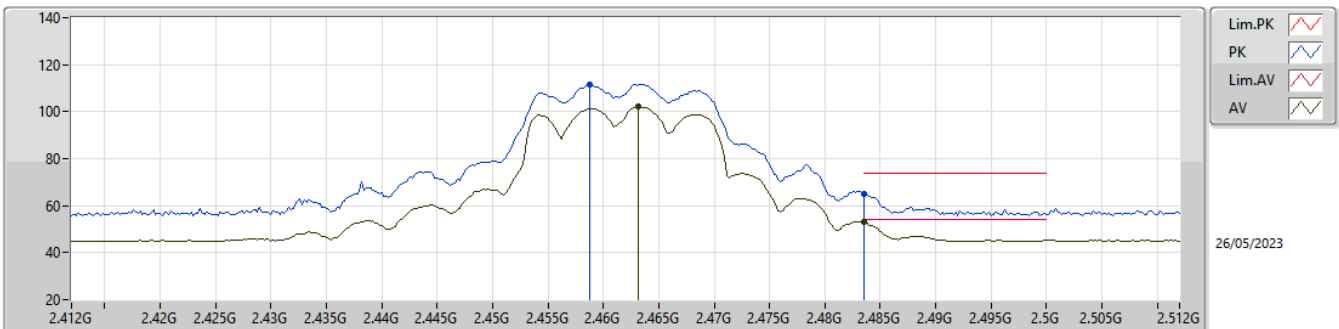
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4614G	102.17	Inf	-Inf	32.05	3	Vertical	32	3.00	70.12	27.75	4.30	-
AV	2.4835G	52.82	54.00	-1.18	32.14	3	Vertical	32	3.00	20.68	27.83	4.31	-
PK	2.4614G	111.89	Inf	-Inf	32.05	3	Vertical	32	3.00	79.84	27.75	4.30	-
PK	2.4835G	65.22	74.00	-8.78	32.14	3	Vertical	32	3.00	33.08	27.83	4.31	-

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

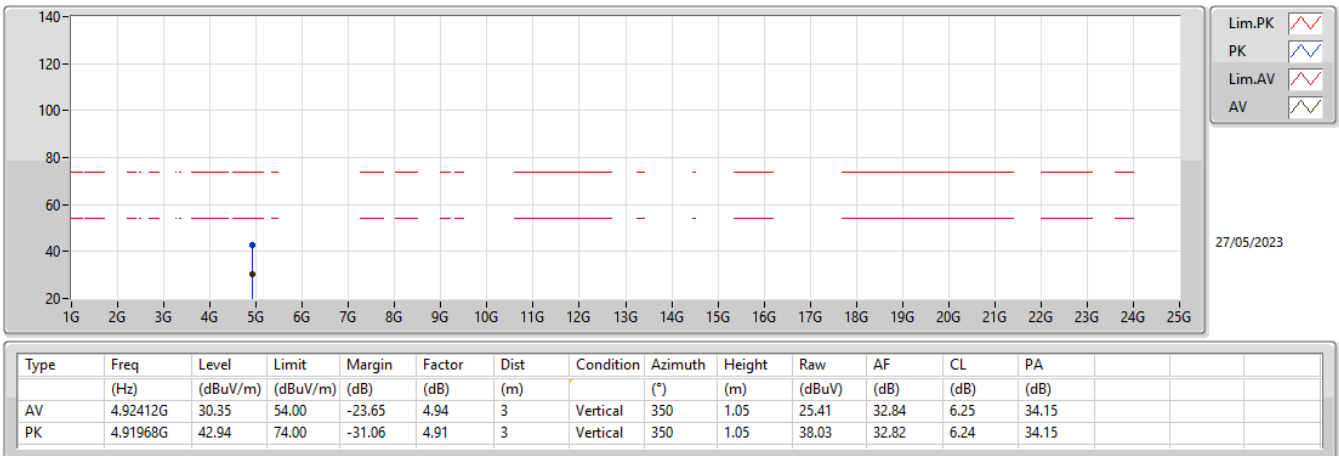
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4632G	102.23	Inf	-Inf	32.05	3	Horizontal	29	1.13	70.18	27.75	4.30	-
AV	2.4835G	52.97	54.00	-1.03	32.14	3	Horizontal	29	1.13	20.83	27.83	4.31	-
PK	2.4588G	111.78	Inf	-Inf	32.04	3	Horizontal	29	1.13	79.74	27.74	4.30	-
PK	2.4835G	65.17	74.00	-8.83	32.14	3	Horizontal	29	1.13	33.03	27.83	4.31	-

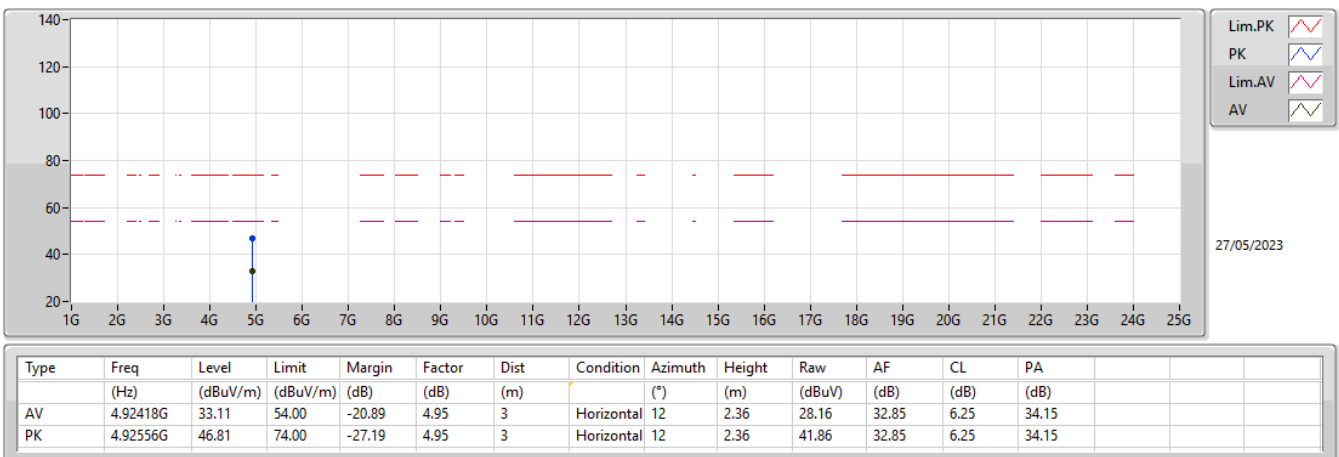
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



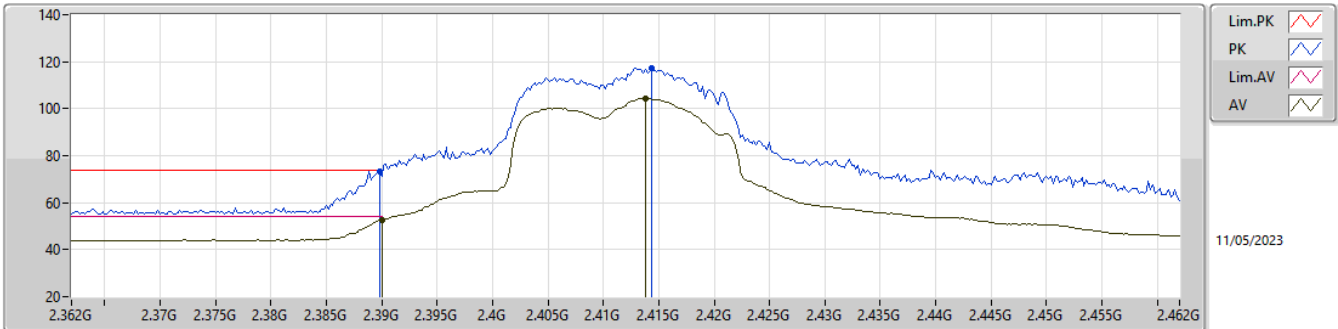
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



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

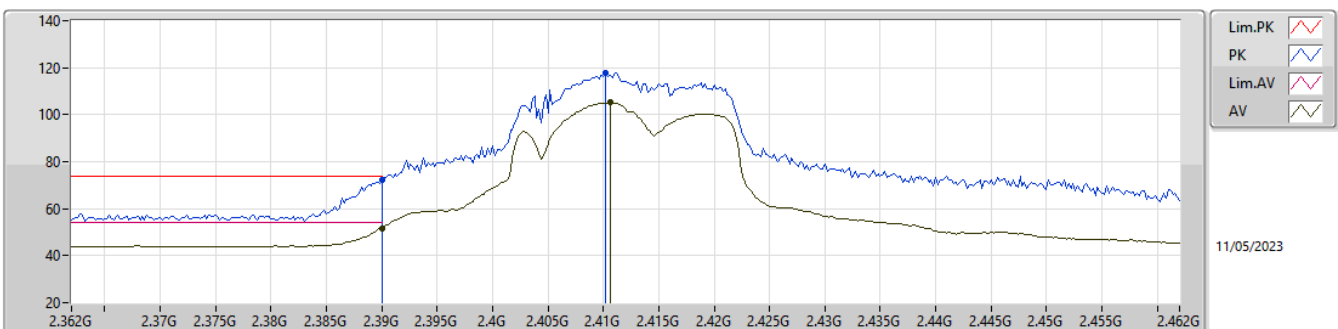
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.43	54.00	-1.57	31.77	3	Vertical	30	2.92	20.66	27.52	4.25	-
AV	2.4138G	104.35	Inf	-Inf	31.90	3	Vertical	30	2.92	72.45	27.63	4.27	-
PK	2.3898G	73.53	74.00	-0.47	31.77	3	Vertical	30	2.92	41.76	27.52	4.25	-
PK	2.4144G	117.47	Inf	-Inf	31.90	3	Vertical	30	2.92	85.57	27.63	4.27	-

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

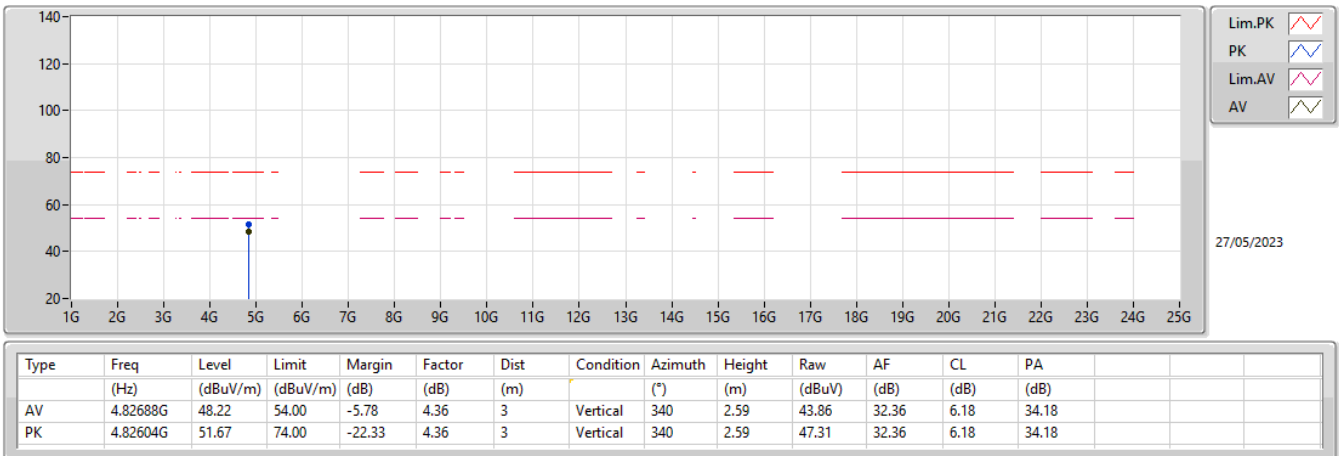
2412MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.76	54.00	-2.24	31.77	3	Horizontal	38	1.00	19.99	27.52	4.25	-
AV	2.4106G	105.22	Inf	-Inf	31.89	3	Horizontal	38	1.00	73.33	27.62	4.27	-
PK	2.39G	72.03	74.00	-1.97	31.77	3	Horizontal	38	1.00	40.26	27.52	4.25	-
PK	2.4102G	117.77	Inf	-Inf	31.89	3	Horizontal	38	1.00	85.88	27.62	4.27	-

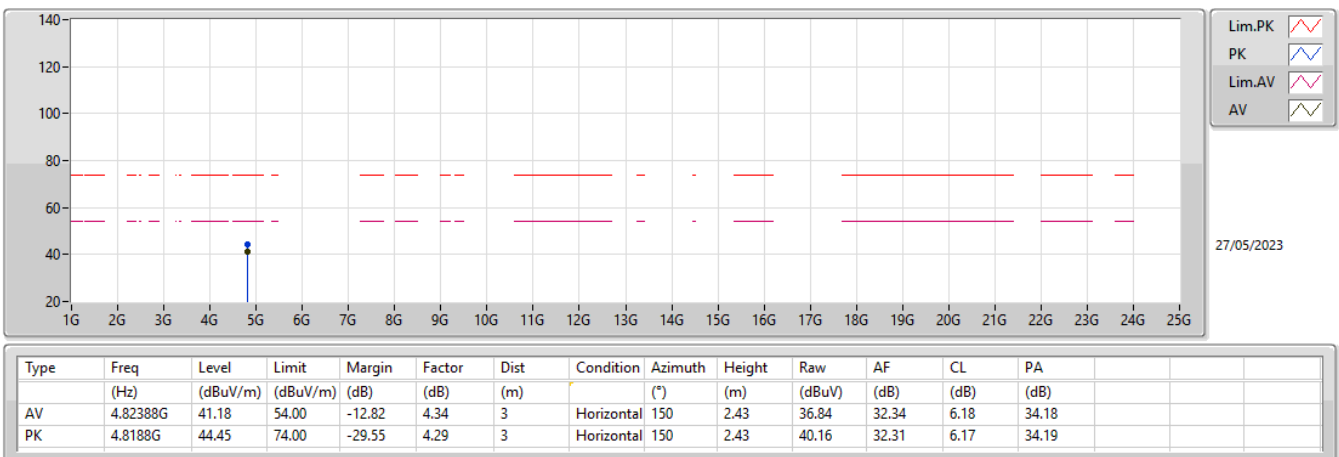
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX



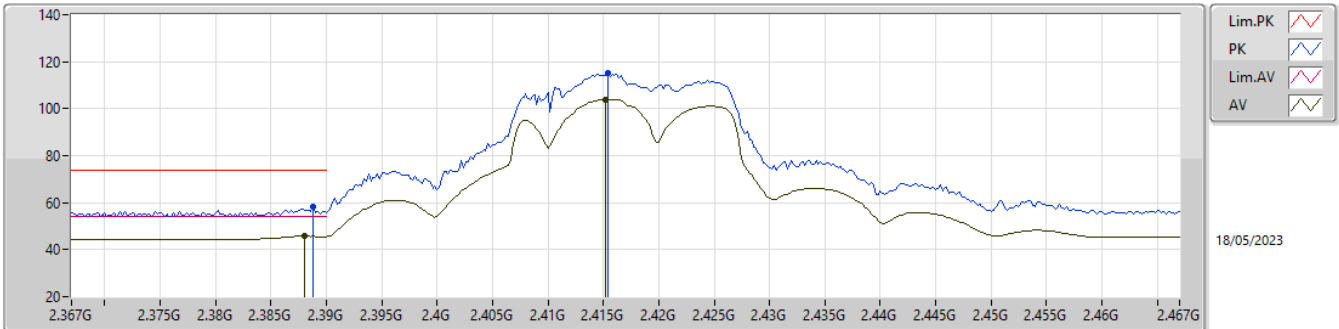
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX



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

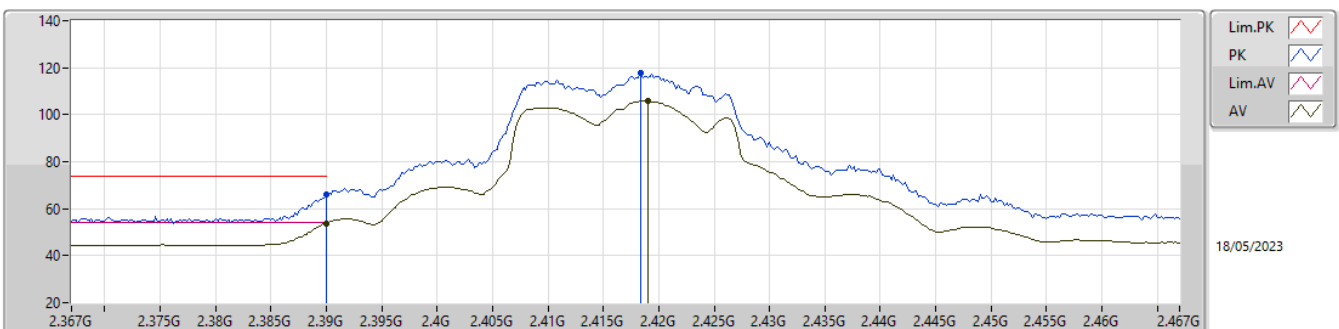
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.388G	45.81	54.00	-8.19	31.14	3	Vertical	51	3.00	14.67	27.38	3.76	-
AV	2.4152G	104.05	Inf	-Inf	31.21	3	Vertical	51	3.00	72.84	27.43	3.78	-
PK	2.3888G	58.10	74.00	-15.90	31.14	3	Vertical	51	3.00	26.96	27.38	3.76	-
PK	2.4154G	114.98	Inf	-Inf	31.21	3	Vertical	51	3.00	83.77	27.43	3.78	-

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

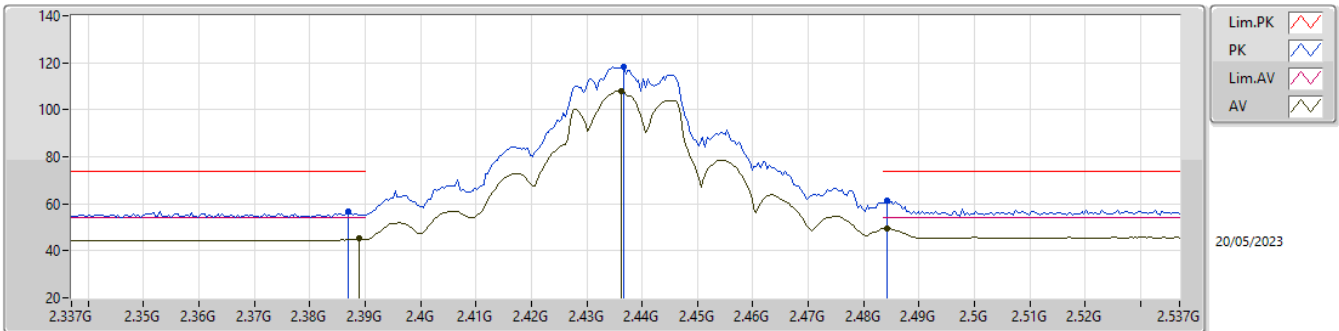
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.79	54.00	-0.21	31.14	3	Horizontal	31	1.35	22.65	27.38	3.76	-
AV	2.419G	105.71	Inf	-Inf	31.23	3	Horizontal	31	1.35	74.48	27.44	3.79	-
PK	2.39G	66.03	74.00	-7.97	31.14	3	Horizontal	31	1.35	34.89	27.38	3.76	-
PK	2.4184G	117.63	Inf	-Inf	31.23	3	Horizontal	31	1.35	86.40	27.44	3.79	-

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

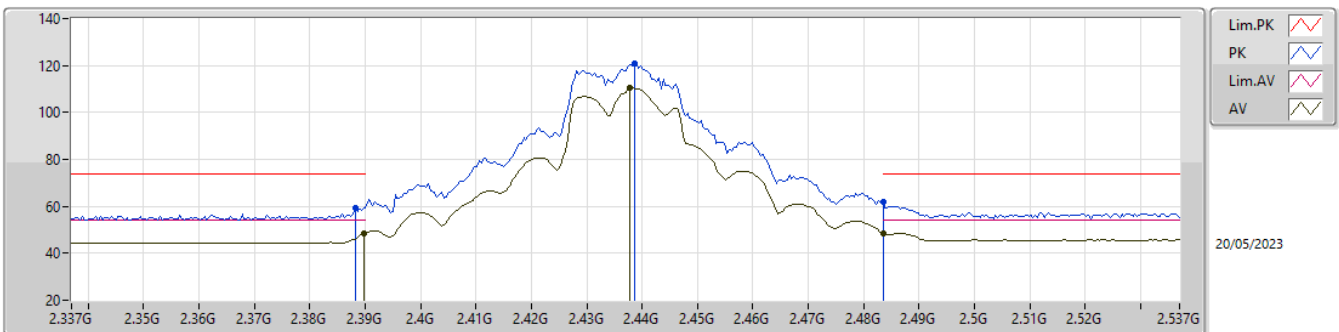
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)				
AV	2.389G	45.16	54.00	-8.84	31.14	3	Vertical	50	2.75	14.02	27.38	3.76	-				
AV	2.4362G	108.01	Inf	-Inf	31.27	3	Vertical	50	2.75	76.74	27.47	3.80	-				
AV	2.4842G	49.41	54.00	-4.59	31.55	3	Vertical	50	2.75	17.86	27.71	3.84	-				
PK	2.387G	56.81	74.00	-17.19	31.13	3	Vertical	50	2.75	25.68	27.37	3.76	-				
PK	2.4366G	118.31	Inf	-Inf	31.27	3	Vertical	50	2.75	87.04	27.47	3.80	-				
PK	2.4842G	61.43	74.00	-12.57	31.55	3	Vertical	50	2.75	29.88	27.71	3.84	-				

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

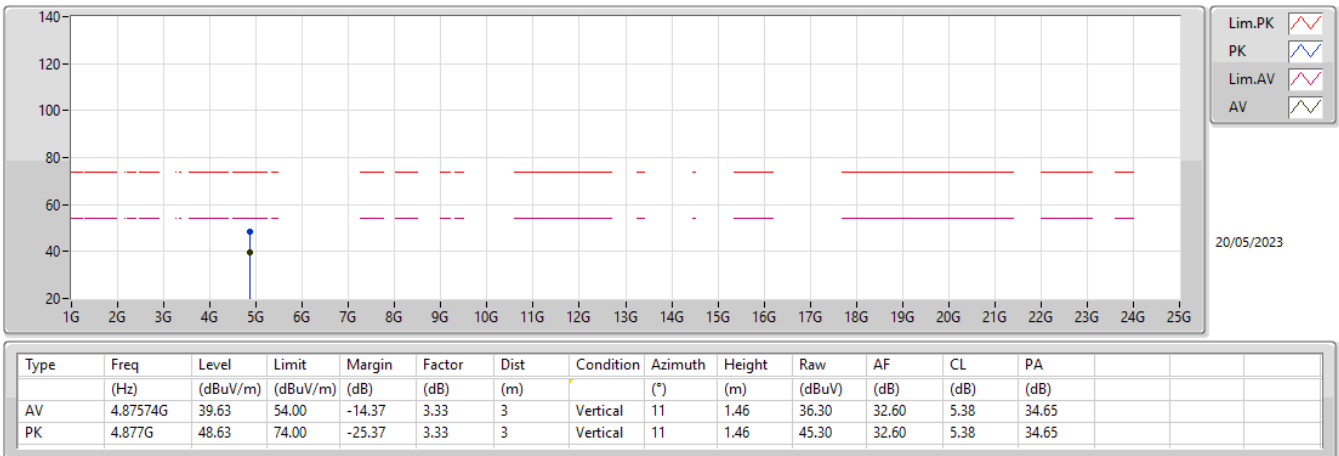
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)				
AV	2.3898G	48.43	54.00	-5.57	31.14	3	Horizontal	30	1.58	17.29	27.38	3.76	-				
AV	2.4378G	110.33	Inf	-Inf	31.28	3	Horizontal	30	1.58	79.05	27.48	3.80	-				
AV	2.4835G	48.58	54.00	-5.42	31.54	3	Horizontal	30	1.58	17.04	27.70	3.84	-				
PK	2.3882G	59.33	74.00	-14.67	31.14	3	Horizontal	30	1.58	28.19	27.38	3.76	-				
PK	2.4386G	120.75	Inf	-Inf	31.28	3	Horizontal	30	1.58	89.47	27.48	3.80	-				
PK	2.4835G	61.84	74.00	-12.16	31.54	3	Horizontal	30	1.58	30.30	27.70	3.84	-				

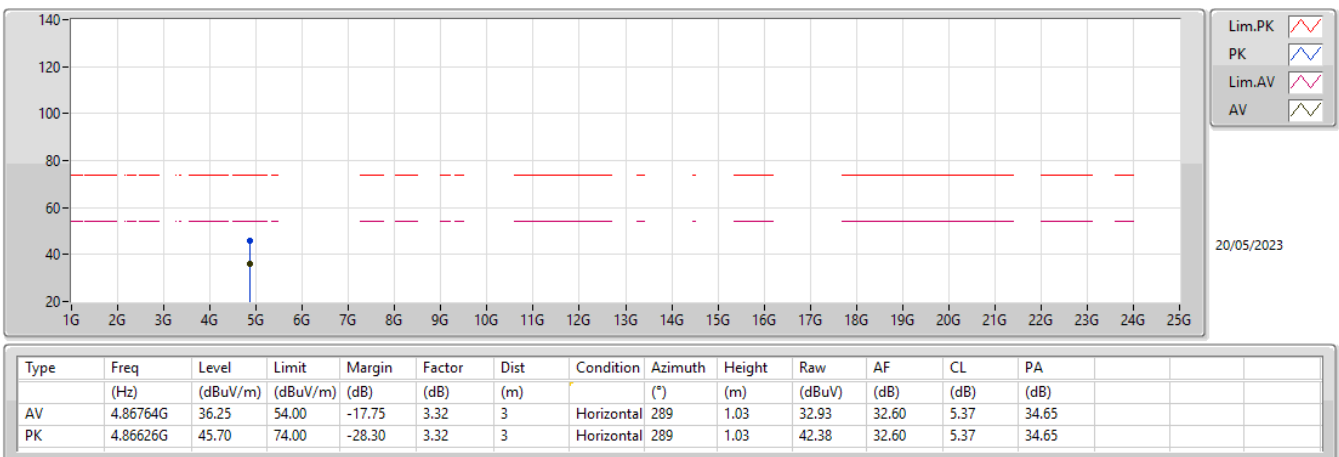
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX



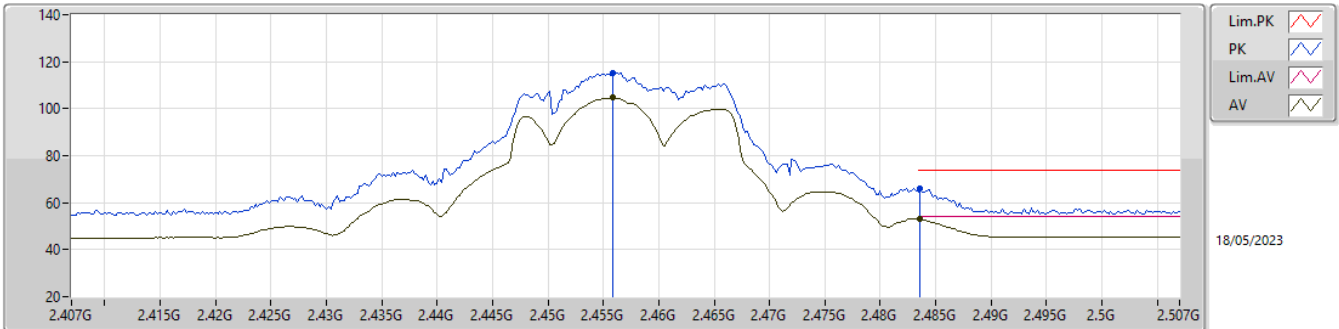
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX



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

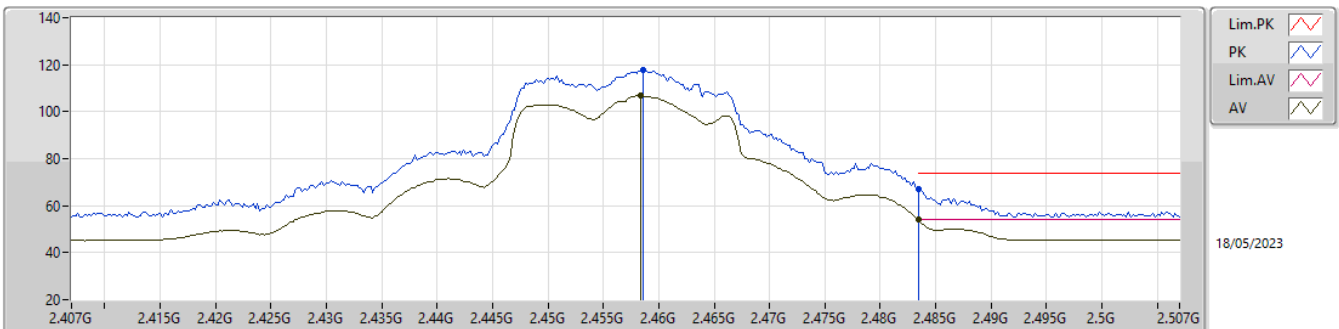
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4558G	104.63	Inf	-Inf	31.35	3	Vertical	58	3.00	73.28	27.53	3.82	-
AV	2.4836G	53.02	54.00	-0.98	31.54	3	Vertical	58	3.00	21.48	27.70	3.84	-
PK	2.4558G	115.31	Inf	-Inf	31.35	3	Vertical	58	3.00	83.96	27.53	3.82	-
PK	2.4836G	66.14	74.00	-7.86	31.54	3	Vertical	58	3.00	34.60	27.70	3.84	-

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

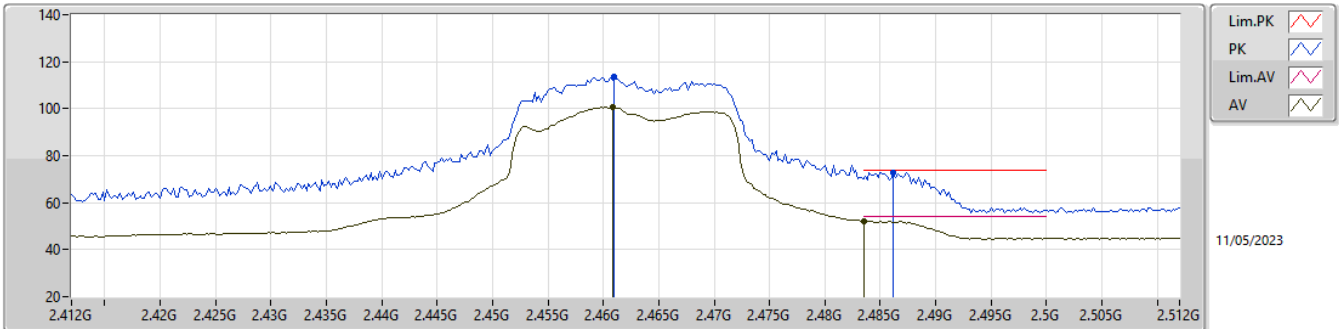
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4584G	106.73	Inf	-Inf	31.37	3	Horizontal	31	1.30	75.36	27.55	3.82	-
AV	2.4835G	53.88	54.00	-0.12	31.54	3	Horizontal	31	1.30	22.34	27.70	3.84	-
PK	2.4586G	117.85	Inf	-Inf	31.37	3	Horizontal	31	1.30	86.48	27.55	3.82	-
PK	2.4835G	67.17	74.00	-6.83	31.54	3	Horizontal	31	1.30	35.63	27.70	3.84	-

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

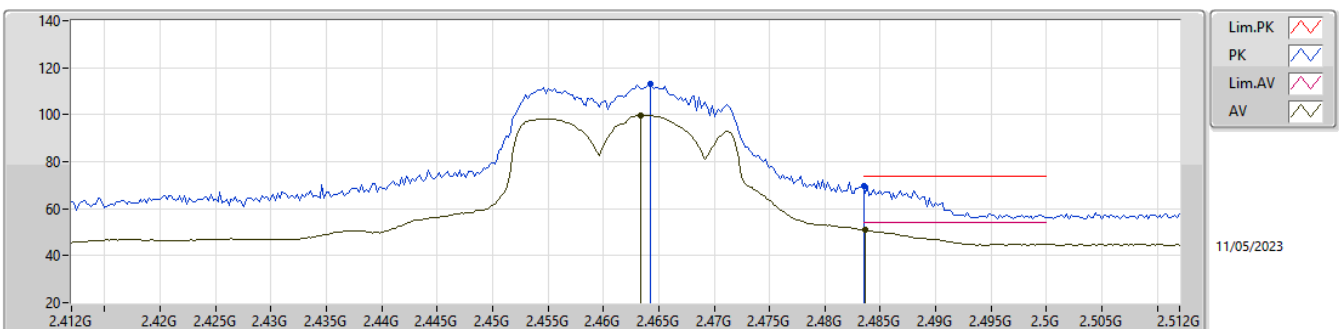
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4608G	100.58	Inf	-Inf	32.04	3	Vertical	22	1.43	68.54	27.74	4.30	-
AV	2.4835G	52.24	54.00	-1.76	32.14	3	Vertical	22	1.43	20.10	27.83	4.31	-
PK	2.461G	113.57	Inf	-Inf	32.04	3	Vertical	22	1.43	81.53	27.74	4.30	-
PK	2.4862G	72.86	74.00	-1.14	32.15	3	Vertical	22	1.43	40.71	27.84	4.31	-

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

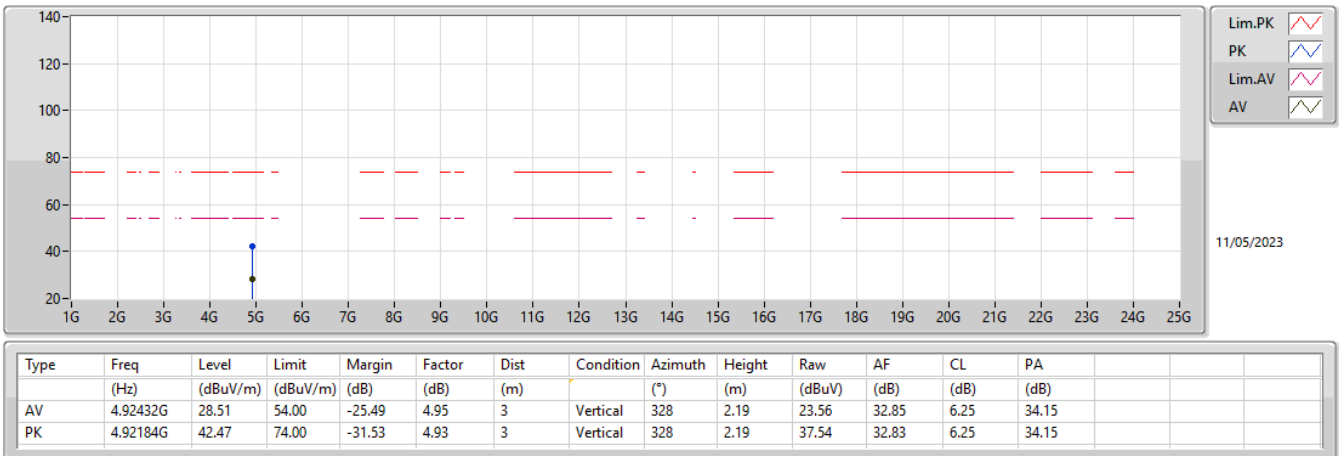
2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4634G	99.83	Inf	-Inf	32.05	3	Horizontal	35	1.30	67.78	27.75	4.30	-
AV	2.4836G	50.99	54.00	-3.01	32.14	3	Horizontal	35	1.30	18.85	27.83	4.31	-
PK	2.4642G	113.13	Inf	-Inf	32.06	3	Horizontal	35	1.30	81.07	27.76	4.30	-
PK	2.4835G	69.83	74.00	-4.17	32.14	3	Horizontal	35	1.30	37.69	27.83	4.31	-

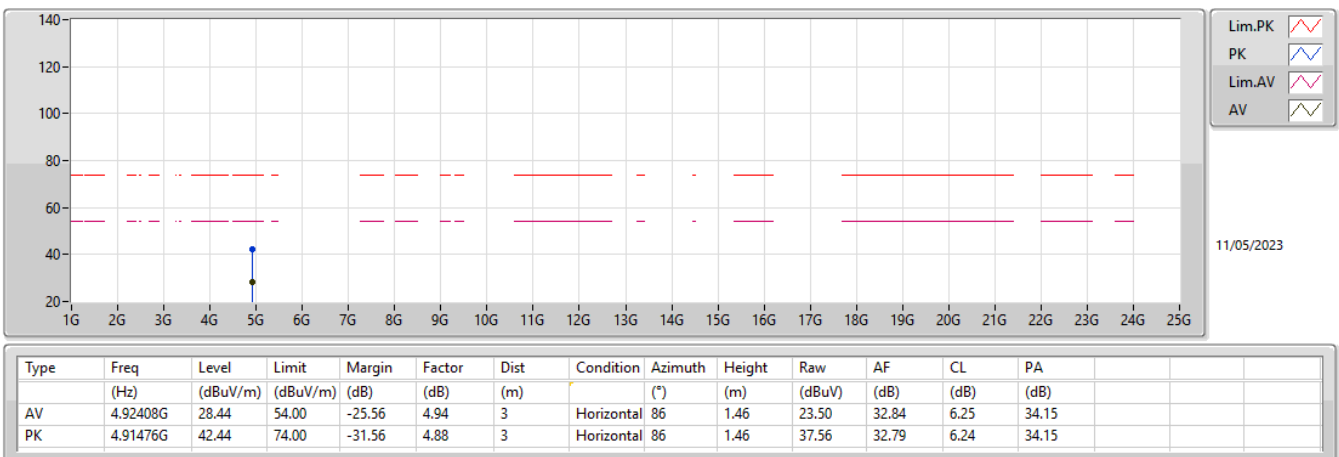
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2462MHz_TX



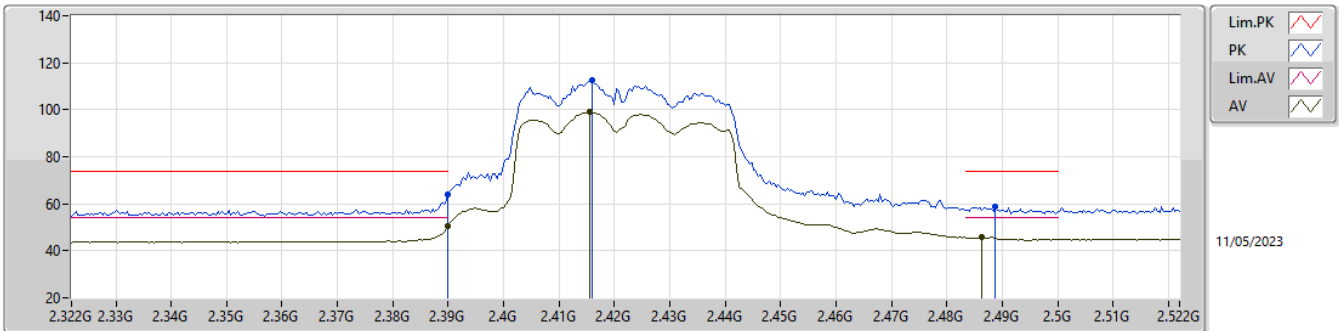
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX



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

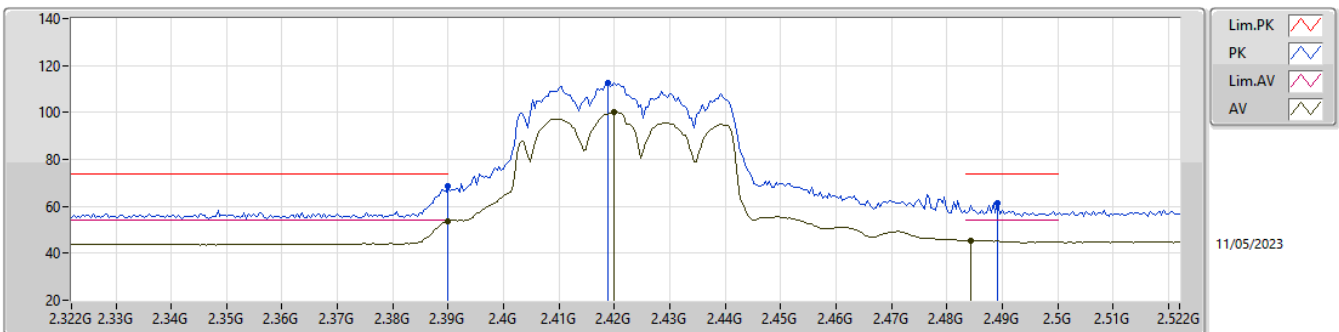
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.63	54.00	-3.37	31.77	3	Vertical	29	2.92	18.86	27.52	4.25	-
AV	2.4156G	99.10	Inf	-Inf	31.90	3	Vertical	29	2.92	67.20	27.63	4.27	-
AV	2.4864G	45.67	54.00	-8.33	32.16	3	Vertical	29	2.92	13.51	27.85	4.31	-
PK	2.39G	63.72	74.00	-10.28	31.77	3	Vertical	29	2.92	31.95	27.52	4.25	-
PK	2.416G	112.35	Inf	-Inf	31.90	3	Vertical	29	2.92	80.45	27.63	4.27	-
PK	2.4888G	58.74	74.00	-15.26	32.17	3	Vertical	29	2.92	26.57	27.86	4.31	-

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

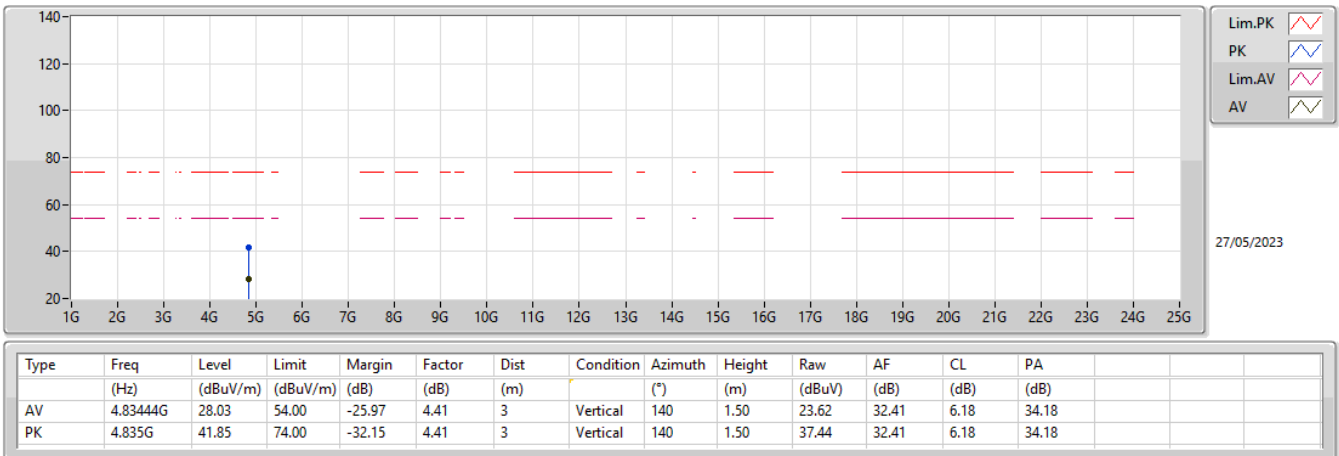
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.55	54.00	-0.45	31.77	3	Horizontal	26	1.13	21.78	27.52	4.25	-
AV	2.42G	100.10	Inf	-Inf	31.91	3	Horizontal	26	1.13	68.19	27.64	4.27	-
AV	2.4844G	45.49	54.00	-8.51	32.15	3	Horizontal	26	1.13	13.34	27.84	4.31	-
PK	2.39G	68.68	74.00	-5.32	31.77	3	Horizontal	26	1.13	36.91	27.52	4.25	-
PK	2.4188G	112.47	Inf	-Inf	31.91	3	Horizontal	26	1.13	80.56	27.64	4.27	-
PK	2.4892G	61.62	74.00	-12.38	32.17	3	Horizontal	26	1.13	29.45	27.86	4.31	-

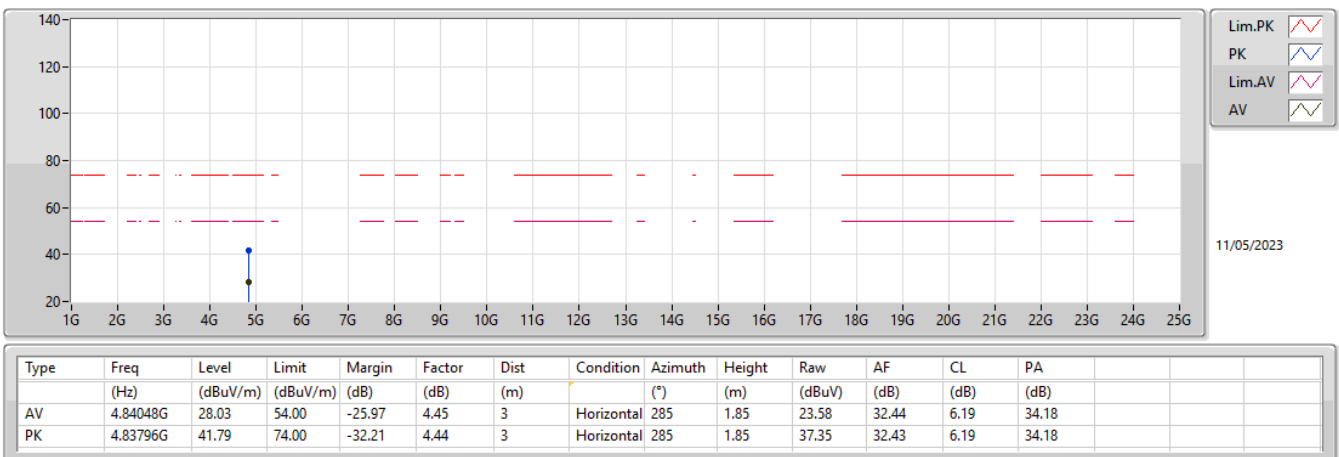
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX



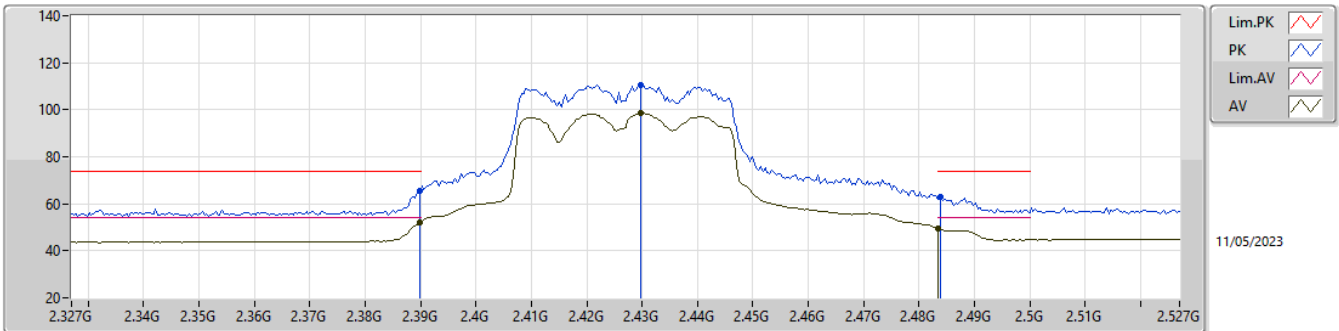
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX



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

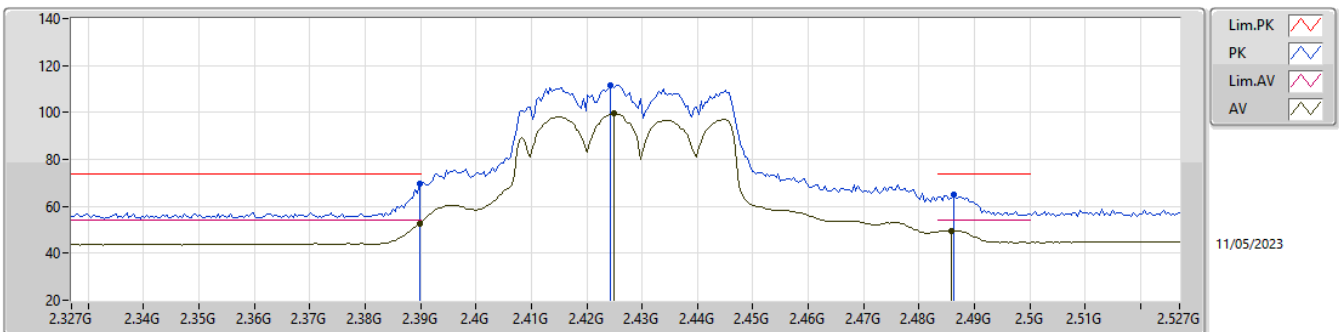
2427MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.29	54.00	-1.71	31.77	3	Vertical	31	2.83	20.52	27.52	4.25	-
AV	2.4298G	98.45	Inf	-Inf	31.94	3	Vertical	31	2.83	66.51	27.66	4.28	-
AV	2.4835G	49.33	54.00	-4.67	32.14	3	Vertical	31	2.83	17.19	27.83	4.31	-
PK	2.3898G	65.35	74.00	-8.65	31.77	3	Vertical	31	2.83	33.58	27.52	4.25	-
PK	2.4298G	110.70	Inf	-Inf	31.94	3	Vertical	31	2.83	78.76	27.66	4.28	-
PK	2.4838G	62.72	74.00	-11.28	32.15	3	Vertical	31	2.83	30.57	27.84	4.31	-

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

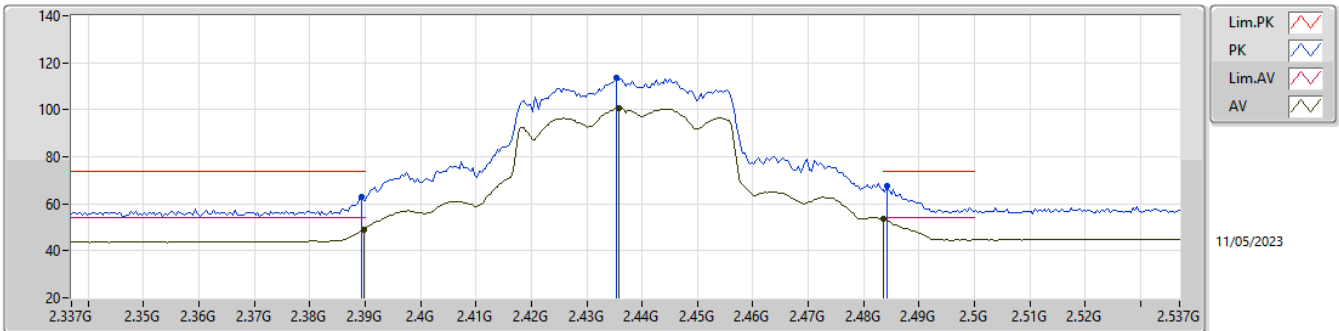
2427MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.77	54.00	-1.23	31.77	3	Horizontal	27	1.49	21.00	27.52	4.25	-
AV	2.425G	99.55	Inf	-Inf	31.92	3	Horizontal	27	1.49	67.63	27.65	4.27	-
AV	2.4858G	49.70	54.00	-4.30	32.15	3	Horizontal	27	1.49	17.55	27.84	4.31	-
PK	2.3898G	69.58	74.00	-4.42	31.77	3	Horizontal	27	1.49	37.81	27.52	4.25	-
PK	2.4242G	111.64	Inf	-Inf	31.92	3	Horizontal	27	1.49	79.72	27.65	4.27	-
PK	2.4862G	65.15	74.00	-8.85	32.15	3	Horizontal	27	1.49	33.00	27.84	4.31	-

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

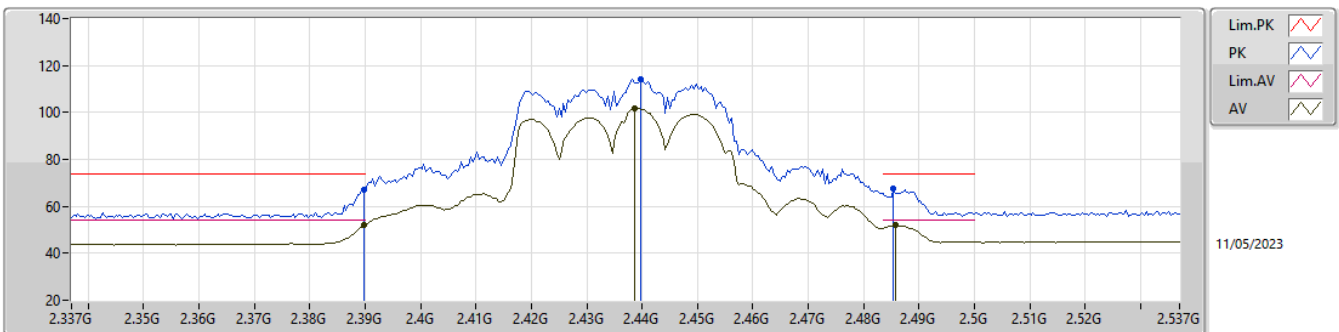
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	49.17	54.00	-4.83	31.77	3	Vertical	27	2.89	17.40	27.52	4.25	-
AV	2.4358G	100.69	Inf	-Inf	31.95	3	Vertical	27	2.89	68.74	27.67	4.28	-
AV	2.4835G	53.39	54.00	-0.61	32.14	3	Vertical	27	2.89	21.25	27.83	4.31	-
PK	2.3894G	62.74	74.00	-11.26	31.77	3	Vertical	27	2.89	30.97	27.52	4.25	-
PK	2.4354G	113.76	Inf	-Inf	31.95	3	Vertical	27	2.89	81.81	27.67	4.28	-
PK	2.4842G	67.37	74.00	-6.63	32.15	3	Vertical	27	2.89	35.22	27.84	4.31	-

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

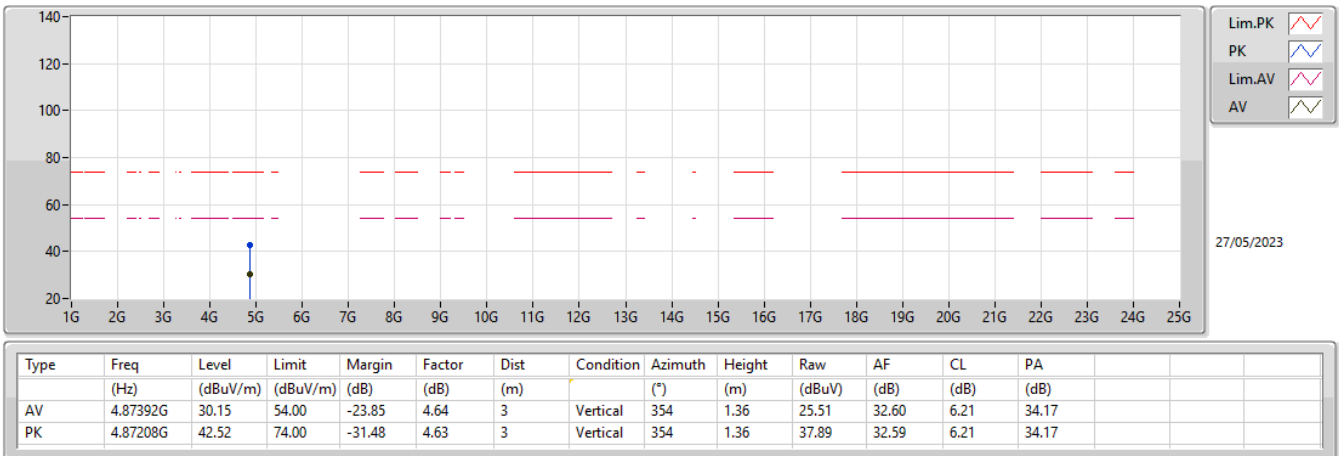
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	51.89	54.00	-2.11	31.77	3	Horizontal	26	1.18	20.12	27.52	4.25	-
AV	2.4386G	101.54	Inf	-Inf	31.96	3	Horizontal	26	1.18	69.58	27.68	4.28	-
AV	2.4858G	51.87	54.00	-2.13	32.15	3	Horizontal	26	1.18	19.72	27.84	4.31	-
PK	2.3898G	67.20	74.00	-6.80	31.77	3	Horizontal	26	1.18	35.43	27.52	4.25	-
PK	2.4398G	114.19	Inf	-Inf	31.96	3	Horizontal	26	1.18	82.23	27.68	4.28	-
PK	2.4854G	67.47	74.00	-6.53	32.15	3	Horizontal	26	1.18	35.32	27.84	4.31	-

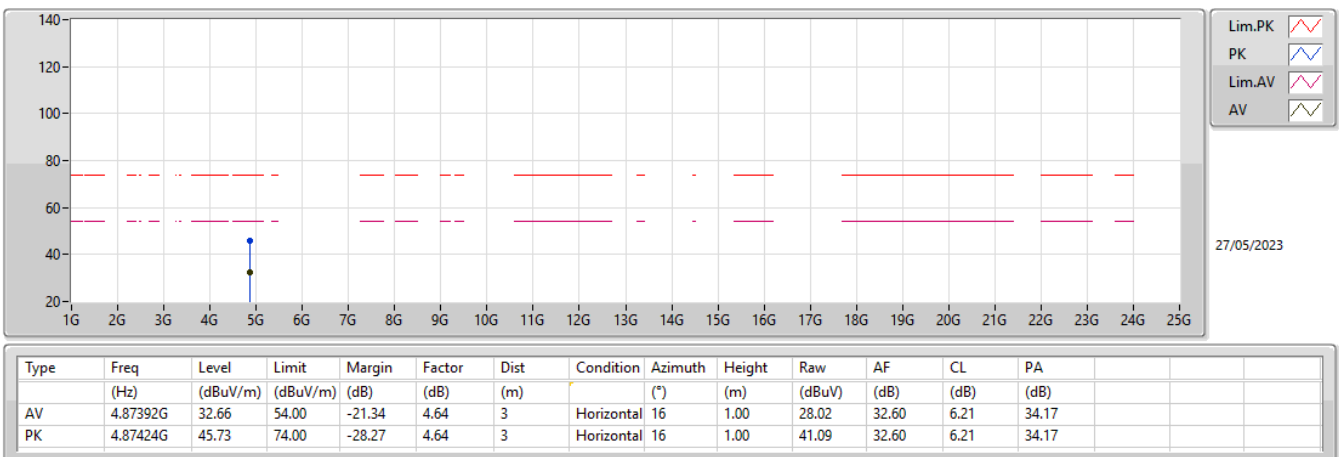
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX



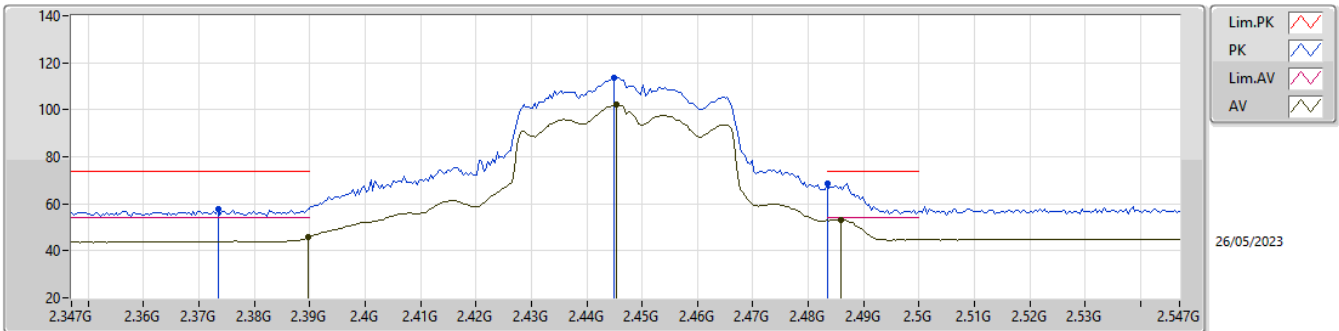
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX



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

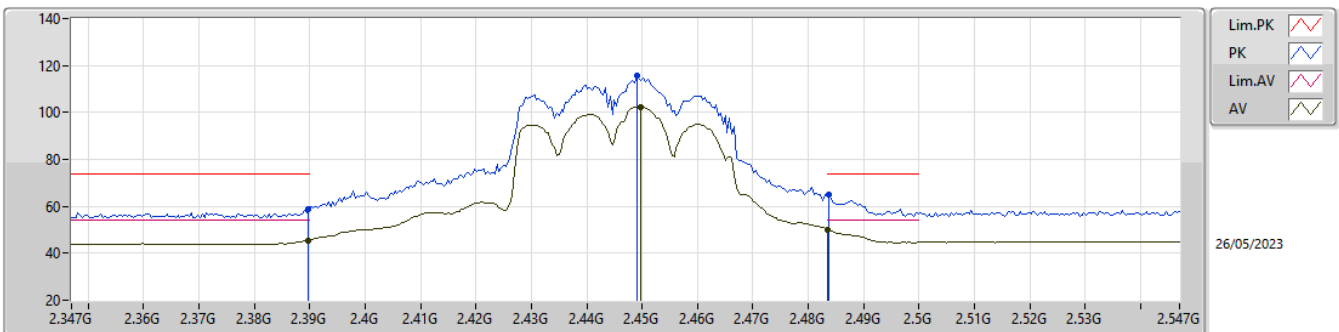
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	45.76	54.00	-8.24	31.77	3	Vertical	29	2.88	13.99	27.52	4.25	-
AV	2.4454G	102.00	Inf	-Inf	31.98	3	Vertical	29	2.88	70.02	27.69	4.29	-
AV	2.4858G	52.97	54.00	-1.03	32.15	3	Vertical	29	2.88	20.82	27.84	4.31	-
PK	2.3734G	57.92	74.00	-16.08	31.63	3	Vertical	29	2.88	26.29	27.39	4.24	-
PK	2.445G	113.71	Inf	-Inf	31.98	3	Vertical	29	2.88	81.73	27.69	4.29	-
PK	2.4835G	68.61	74.00	-5.39	32.14	3	Vertical	29	2.88	36.47	27.83	4.31	-

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

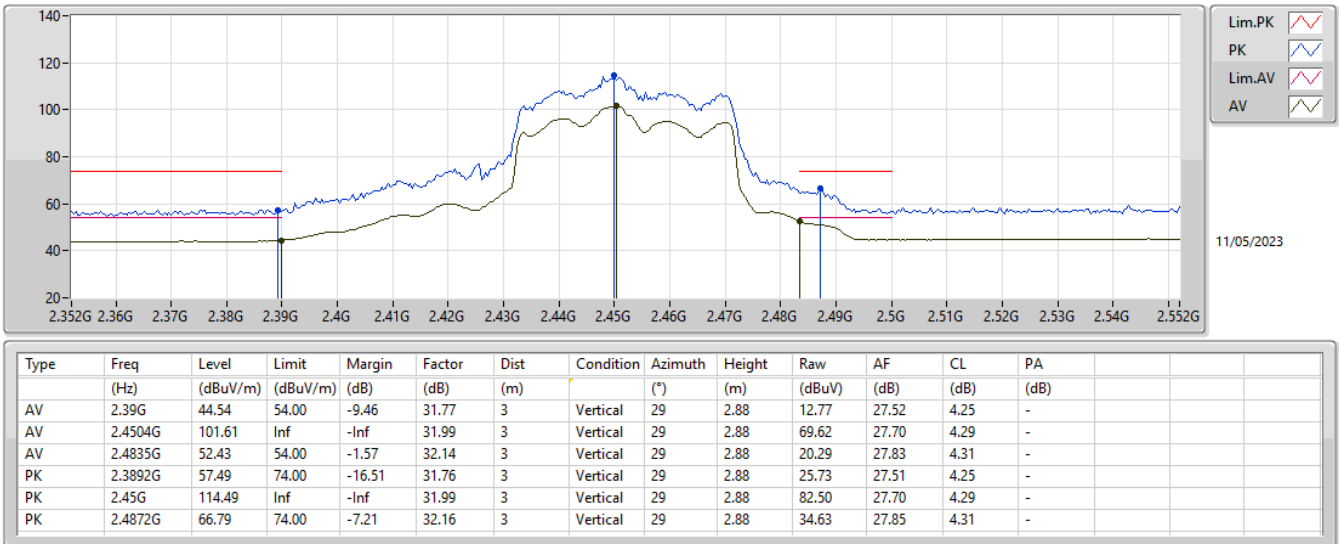
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	45.59	54.00	-8.41	31.77	3	Horizontal	36	1.01	13.82	27.52	4.25	-
AV	2.4498G	102.32	Inf	-Inf	31.99	3	Horizontal	36	1.01	70.33	27.70	4.29	-
AV	2.4835G	50.15	54.00	-3.85	32.14	3	Horizontal	36	1.01	18.01	27.83	4.31	-
PK	2.3898G	58.68	74.00	-15.32	31.77	3	Horizontal	36	1.01	26.91	27.52	4.25	-
PK	2.449G	115.55	Inf	-Inf	31.99	3	Horizontal	36	1.01	83.56	27.70	4.29	-
PK	2.4838G	64.88	74.00	-9.12	32.15	3	Horizontal	36	1.01	32.73	27.84	4.31	-

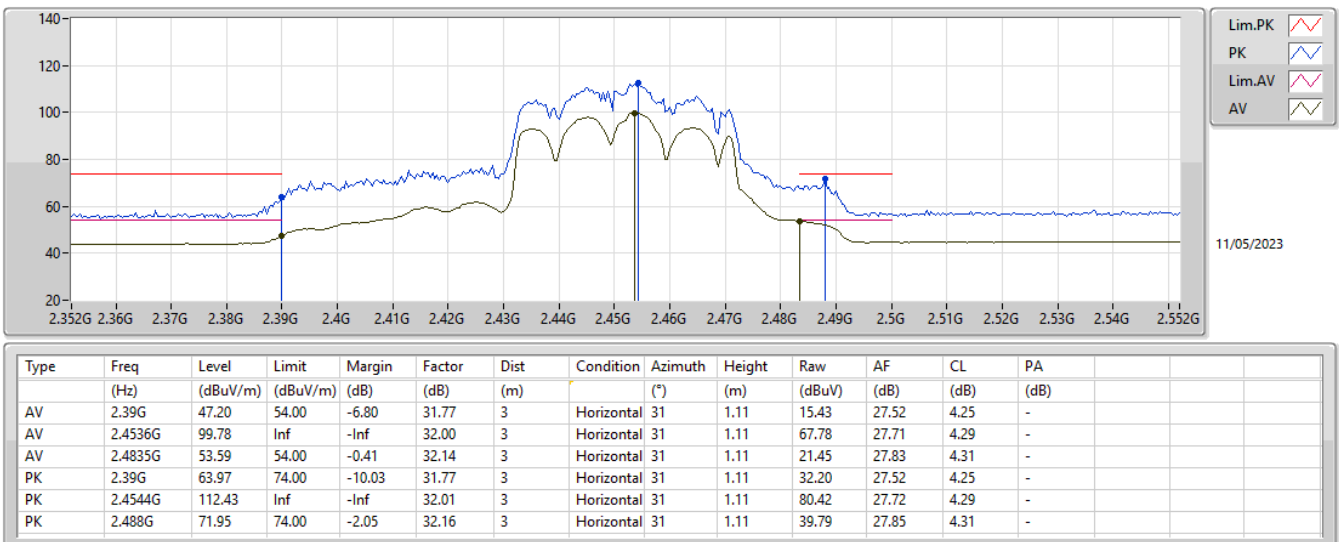
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



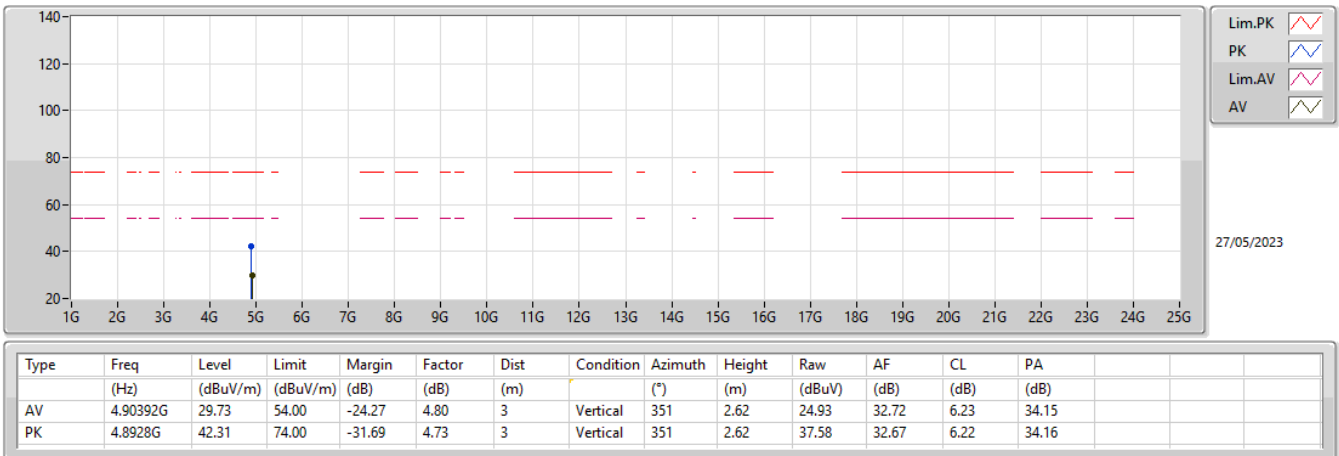
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



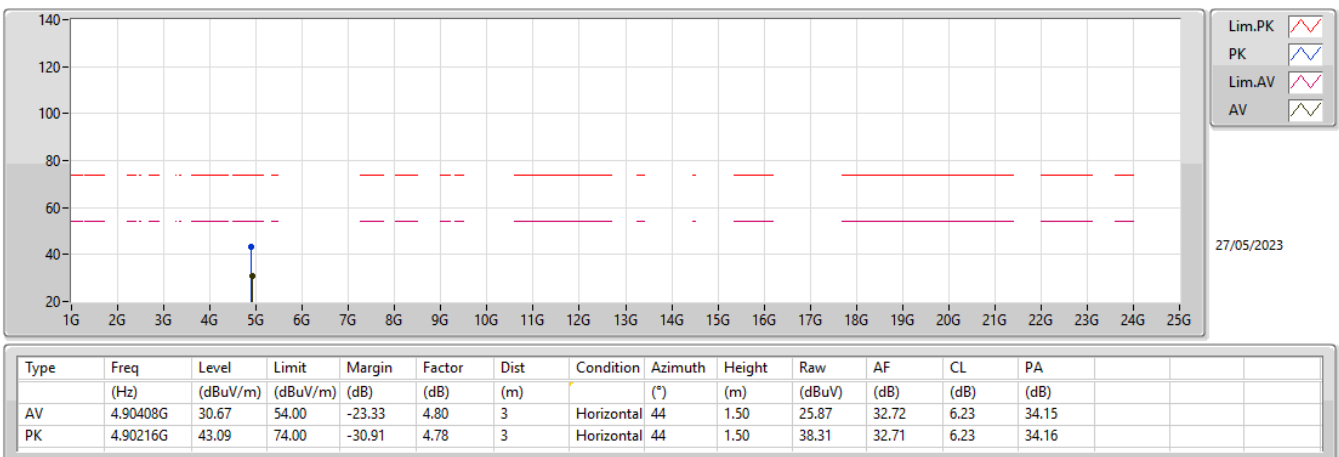
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



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

2452MHz_TX





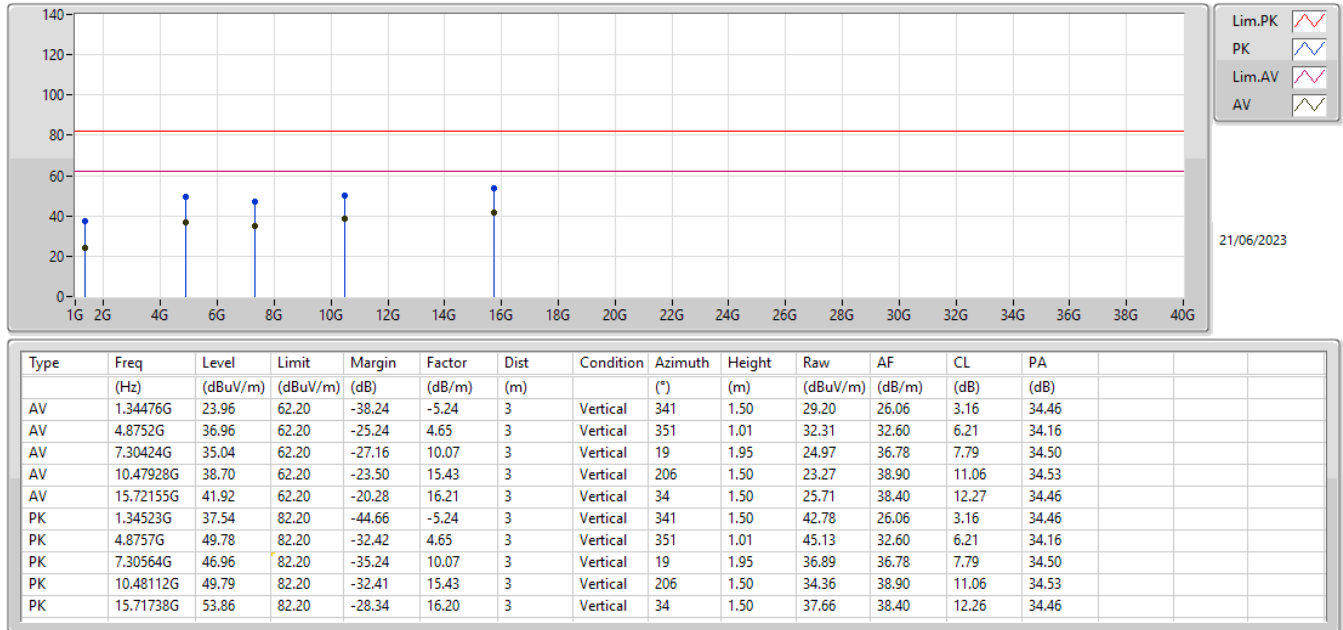
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.87508G	50.59	62.20	-11.61	Horizontal

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.34476G	23.96	62.20	-38.24	3	Vertical	341	1.50
Mode 1	Pass	AV	4.8752G	36.96	62.20	-25.24	3	Vertical	351	1.01
Mode 1	Pass	AV	7.30424G	35.04	62.20	-27.16	3	Vertical	19	1.95
Mode 1	Pass	AV	10.47928G	38.70	62.20	-23.50	3	Vertical	206	1.50
Mode 1	Pass	AV	15.72155G	41.92	62.20	-20.28	3	Vertical	34	1.50
Mode 1	Pass	PK	1.34523G	37.54	82.20	-44.66	3	Vertical	341	1.50
Mode 1	Pass	PK	4.8757G	49.78	82.20	-32.42	3	Vertical	351	1.01
Mode 1	Pass	PK	7.30564G	46.96	82.20	-35.24	3	Vertical	19	1.95
Mode 1	Pass	PK	10.48112G	49.79	82.20	-32.41	3	Vertical	206	1.50
Mode 1	Pass	PK	15.71738G	53.86	82.20	-28.34	3	Vertical	34	1.50
Mode 1	Pass	AV	1.34562G	25.54	62.20	-36.66	3	Horizontal	33	1.50
Mode 1	Pass	AV	4.87508G	50.59	62.20	-11.61	3	Horizontal	75	2.34
Mode 1	Pass	AV	7.30424G	35.04	62.20	-27.16	3	Horizontal	19	1.95
Mode 1	Pass	AV	10.47996G	39.62	62.20	-22.58	3	Horizontal	0	1.50
Mode 1	Pass	AV	15.7236G	40.91	62.20	-21.29	3	Horizontal	46	1.50
Mode 1	Pass	PK	1.34473G	38.63	82.20	-43.57	3	Horizontal	33	1.50
Mode 1	Pass	PK	4.87472G	63.03	82.20	-19.17	3	Horizontal	75	2.34
Mode 1	Pass	PK	7.30564G	46.96	82.20	-35.24	3	Horizontal	19	1.95
Mode 1	Pass	PK	10.48113G	50.17	82.20	-32.03	3	Horizontal	0	1.50
Mode 1	Pass	PK	15.71888G	54.19	82.20	-28.01	3	Horizontal	46	1.50

Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1

