

FCC Radio Test Report

FCC ID : XPYMAYAW4A

Equipment : Host-based multi-radio modules with Wi-Fi 6, Bluetooth Low Energy 5.4 and 802.15.4

Brand Name : u-blox

Model Name : MAYA-W476-00B, MAYA-W466-00B, MAYA-W446-00B, MAYA-W436-00B, MAYA-W473-00B, MAYA-W463-00B, MAYA-W443-00B, MAYA-W433-00B

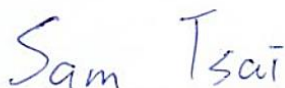
Applicant : u-Blox AG
Zürcherstrasse 68, 8800 Thalwil Switzerland

Manufacturer : u-Blox AG
Zürcherstrasse 68, 8800 Thalwil Switzerland

Standard : 47 CFR FCC Part 15.247

The product was received on Nov. 28, 2024, and testing was started from Dec. 15, 2024 and completed on Jan. 09, 2025. 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: Sam Tsai

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History of this test report

Report No.	Version	Description	Issued Date
FR4O2915AC	01	Initial issue of report	Jan. 22, 2025

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:

None

Reviewed by: Ben Tseng

Report Producer: Julie Tseng

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), ax(HEW20)	2412-2462	1-11 [11]

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ HEW20 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Evaluated HEW20 mode only due to the similar modulation. The power setting of HT20 mode are the same or lower than HEW20.

1.1.2 Antenna Information

MAYA-W476-00B

Ant.	Brand	Model Name	Antenna Type	Support
1	U-Blox	MAYA-W4 PCB	PCB Antenna	2.4G+5G+BLE+802.15.4

Ant.	Gain (dBi)							
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-4	BT	802.15.4
1	1.56	-1.74	1.56	1.56	-2.23	-0.95	1.56	1.56

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax mode (1TX/1RX)

Ant. 1 could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)

Ant. 1 could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 could transmit/receive.

For Zigbee function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 1 could transmit/receive.

MAYA-W473-00B

Ant.	Brand	Model Name	Antenna Type	Support
1	Linx	ANT-DB1-RAF-RPS	Dual-band dipole antenna	2.4G+5G+BLE+802.15.4
2	Chang Hong	DA-2458-02-SMR	Dual-band dipole antenna	2.4G+5G+BLE+802.15.4
3	Laird	001-0012	Dual-band dipole antenna	2.4G+5G+BLE+802.15.4
4	Taoglas	GW.59.3153	Dual-band dipole antenna	2.4G+5G+BLE+802.15.4
5	Laird	MAF94051	Dual-band dipole antenna	2.4G+5G+BLE+802.15.4
6	Unictron	H2B1PD1A1C385L	PCB antenna	2.4G+5G+BLE+802.15.4
7	Molex	1461530050	PCB antenna	2.4G+5G+BLE+802.15.4
8	Molex	2042810100	PCB antenna	2.4G+5G+BLE+802.15.4

Ant.	Gain (dBi)							
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-4	BT	802.15.4
1	4.1	5.1	5.1	5.1	5.1	5.1	4.1	4.1
2	2.85	1.52	0.36	1.35	2.17	1.49	2.85	2.85
3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
4	3.8	5.3	5.3	5.3	5.3	5.3	3.8	3.8
5	2.1	2.6	2.6	2.6	2.6	3.4	2.1	2.1
6	2.7	3.5	3.5	3.5	3.5	3.5	2.7	2.7
7	3.2	4.25	4.25	4.25	4.25	4.25	3.2	3.2
8	2.0	3.3	3.3	3.3	3.3	3.3	2.0	2.0

For 2.4GHz function:

For IEEE 802.11 b/g/n/ax mode (1TX/1RX)

Ant. 1 ~ Ant. 8 could transmit/receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX)

Ant. 1 ~ Ant. 8 could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 ~ Ant. 8 could transmit/receive.

For Zigbee function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 1 ~ Ant. 8 could transmit/receive.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From Host system		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
Resource Unit	☒ 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

Mode	DC	DCF (dB)	T (s)	VBW (Hz) 1/T
802.11b_Nss1,(1Mbps)_1TX	0.999	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	0.993	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description	Chipset used	Radio Technologies	Antenna Type	Antenna item
MAYA-W476-00B	Product with integrated antenna	NXP IW610G	2.4G+5G Wi-Fi, BLE, 802.15.4	PCB Antenna	W9
MAYA-W466-00B	Product with integrated antenna	NXP IW610F	2.4G+5G Wi-Fi, BLE	PCB Antenna	W9
MAYA-W446-00B	Product with integrated antenna	NXP IW610C	2.4G Wi-Fi, BLE, 802.15.4	PCB Antenna	W9
MAYA-W436-00B	Product with integrated antenna	NXP IW610B	2.4G Wi-Fi, BLE	PCB Antenna	W9
MAYA-W473-00B	Product with antenna pin	NXP IW610G	2.4G+5G Wi-Fi, BLE, 802.15.4	External Antenna Dual-Band dipole Antenna or External PCB Antenna	W1~8
MAYA-W463-00B	Product with antenna pin	NXP IW610F	2.4G+5G Wi-Fi, BLE	External Antenna Dual-Band dipole Antenna or External PCB Antenna	W1~8
MAYA-W443-00B	Product with antenna pin	NXP IW610C	2.4G Wi-Fi, BLE, 802.15.4	External Antenna Dual-Band dipole Antenna or External PCB Antenna	W1~8
MAYA-W433-00B	Product with antenna pin	NXP IW610B	2.4G Wi-Fi, BLE	External Antenna Dual-Band dipole Antenna or External PCB Antenna	W1~8

From the above models, model: MAYA-W476-00B, MAYA-W473-00B was selected as representative model for the test and its data was recorded in this report.

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 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	Rian Chung	19.3~21.8°C / 53~56%	08/Jan/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH26-HY	AndyWang	19.3~19.6°C / 51~55%	15/Dec/2024~30/Dec/2024
Radiated (Co-location)	03CH26-HY	Ivan Chung	19.1~19.4°C / 60~62%	09/Jan/2025
RF Conducted	TH06-HY	CoCo Shang Kung	23.9~24.2°C / 51~53%	27/Dec/2024

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
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

Test Software Version	Dut labtool v2.0.0.21
Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	14.5
2417MHz	14.5
2437MHz	14
2457MHz	11.5
2462MHz	12
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	14.5
2417MHz	16.5
2437MHz	20.5
2457MHz	18
2462MHz	18
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	13
2417MHz	16
2437MHz	19
2457MHz	18
2462MHz	16.5

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	Fixture 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	Fixture 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	WLAN 5GHz+Bluetooth
2	WLAN 5GHz+802.15.4
Refer to Sporton Test Report No.: FA4O2915 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

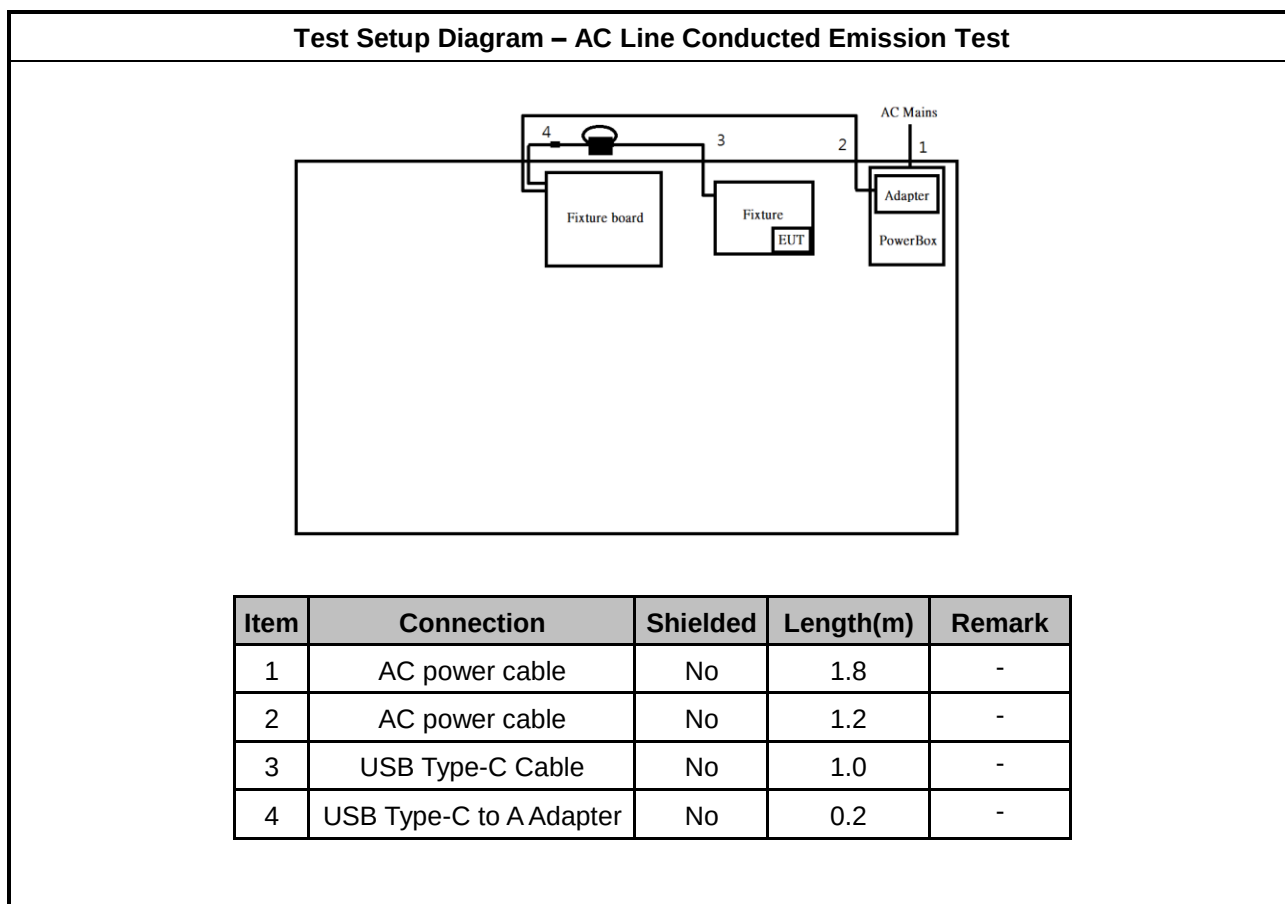
2.3 Support Equipment

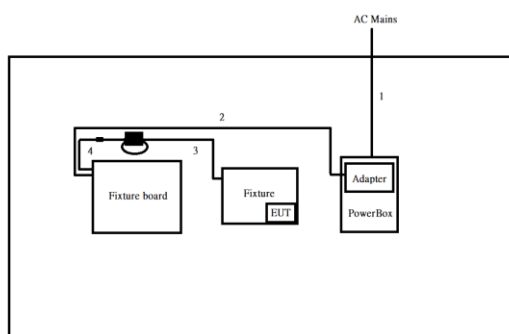
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	EVKB Board	NXP	8MMINILPDDR4-EVKB	-	-
2	Adapter	EDAC	EA1045CR	-	-
3	USB Type-C to A Adapter	Customer provide	Customer provide	-	-
4	USB Type-C Cable	Customer provide	Customer provide	-	-
5	Black Core	Sporton	Sporton	-	-
6	Fixture	U-blox	MAYA-W4 EUK	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Fixture	U-blox	MAYA-W4 EUK	-	-
4	EVKB Board	NXP	8MMINILPDDR4-EVKB	-	-

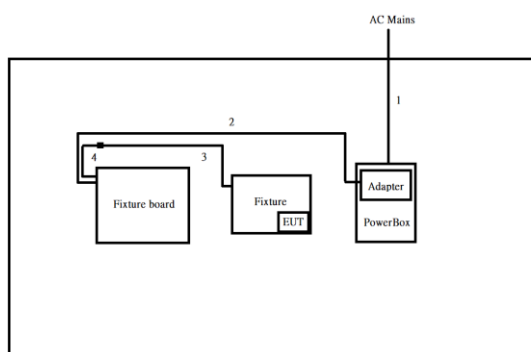
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	EVKB Board	NXP	8MMINILPDDR4-EVKB	-	-
2	Adapter	EDAC	EA1045CR	-	-
3	USB Type-C to A Adapter	Customer provide	Customer provide	-	-
4	USB Type-C Cable	Customer provide	Customer provide	-	-
5	Black Core	Sporton	Sporton	-	-
6	Fixture	U-blox	MAYA-W4 EUK	-	-

2.4 Test Setup Diagram



Test Setup Diagram - Radiated Below 1G Test


Item	Connection	Shielded	Length(m)	Remark
1	AC power cable	No	1.8	-
2	AC power cable	No	1.2	-
3	USB Type-C Cable	No	1.0	-
4	USB Type-C to A Adapter	No	0.2	-

Test Setup Diagram - Radiated Above 1G Test


Item	Connection	Shielded	Length(m)	Remark
1	AC power cable	No	1.8	-
2	AC power cable	No	1.2	-
3	USB Type-C Cable	No	1.0	-
4	USB Type-C to A Adapter	No	0.2	-

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

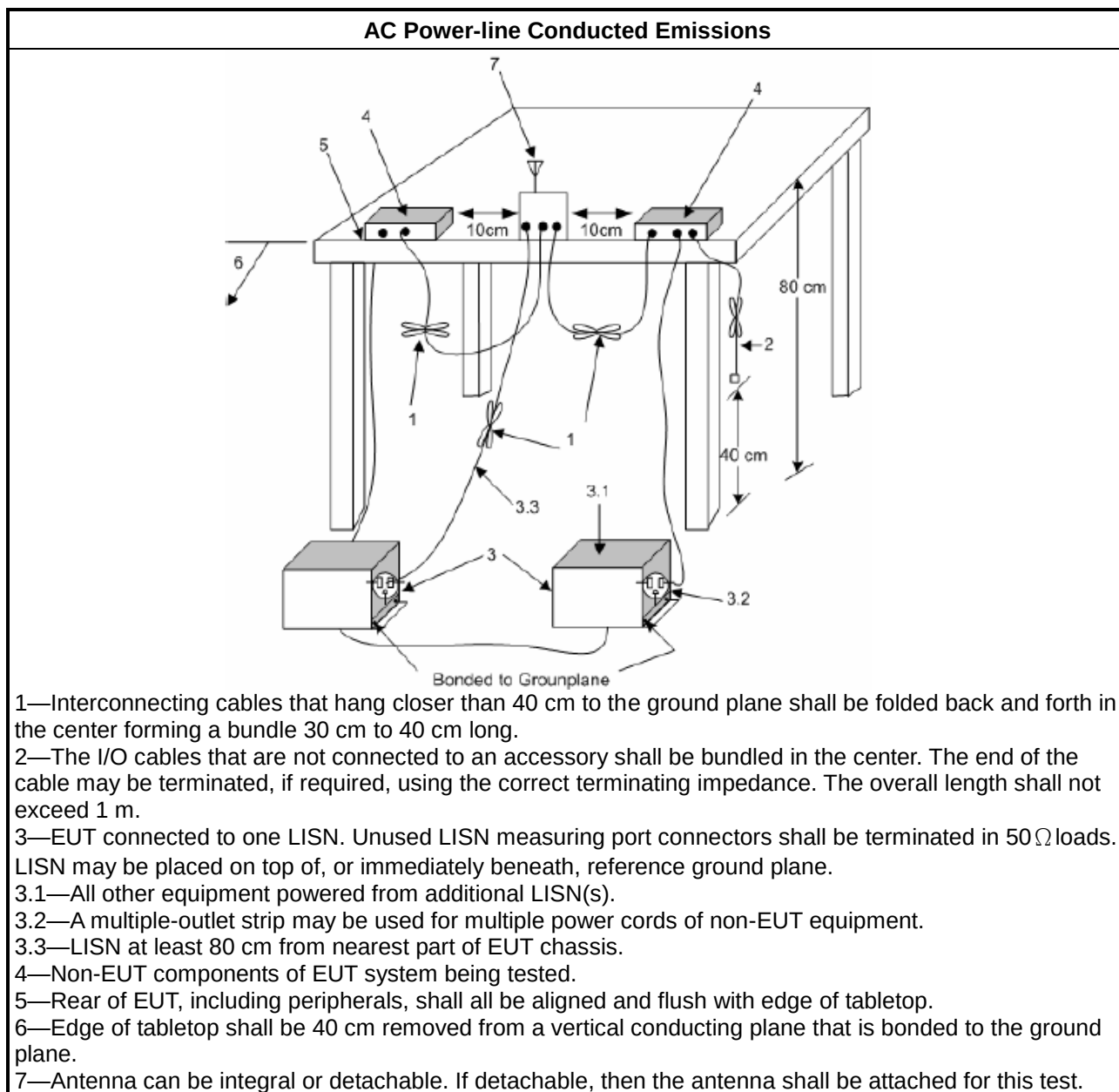
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

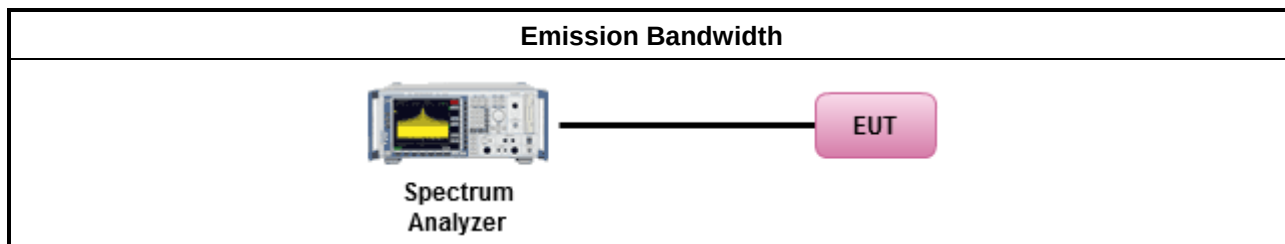
3.2.2 Measuring Instruments

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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ 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.	

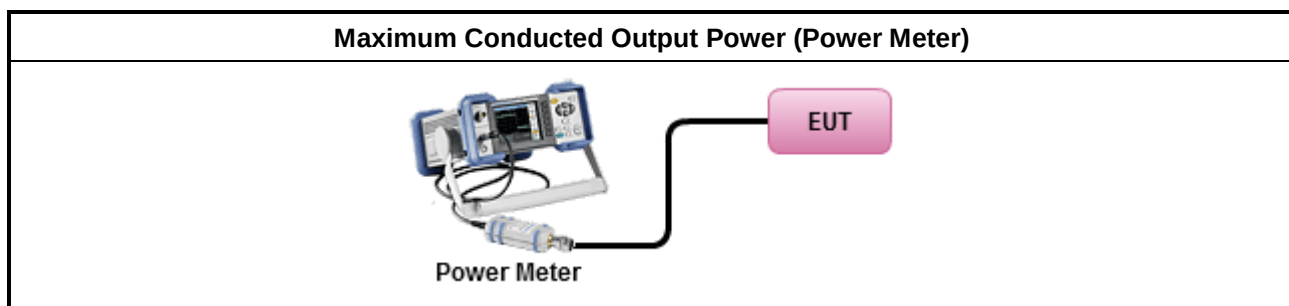
3.3.2 Measuring Instruments

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

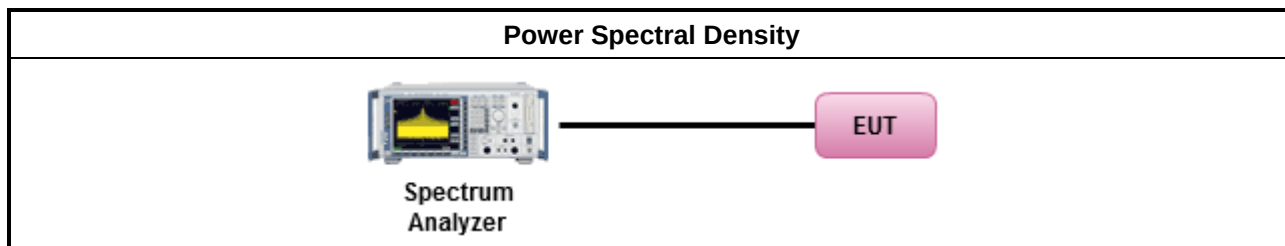
3.4.2 Measuring Instruments

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.	

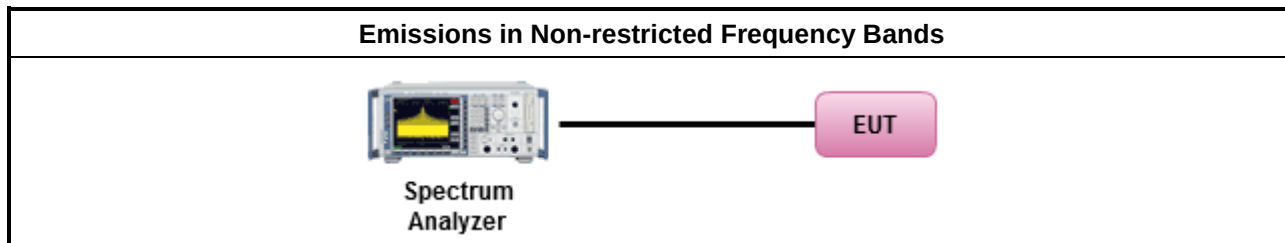
3.5.2 Measuring Instruments

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

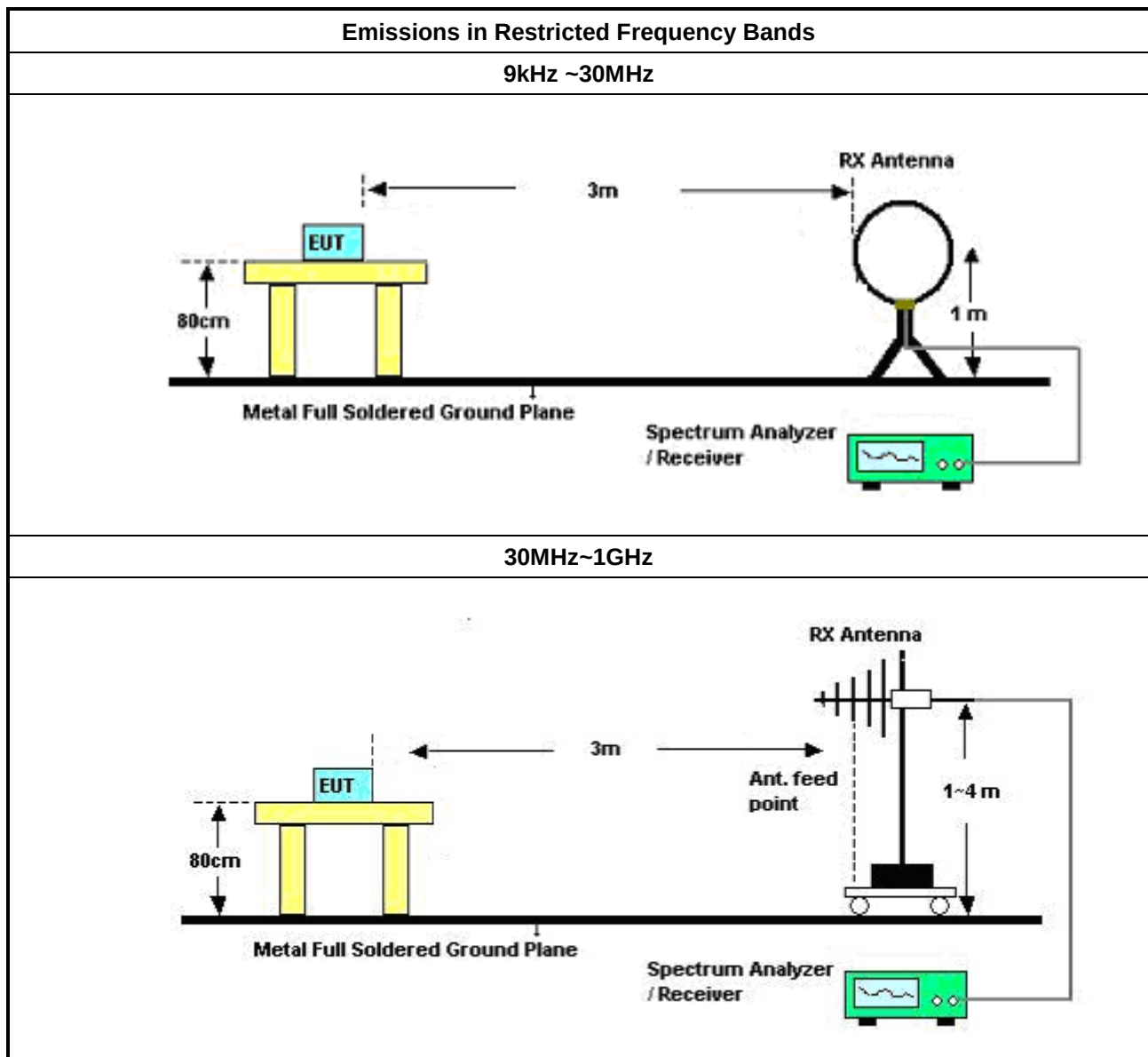
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted 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.

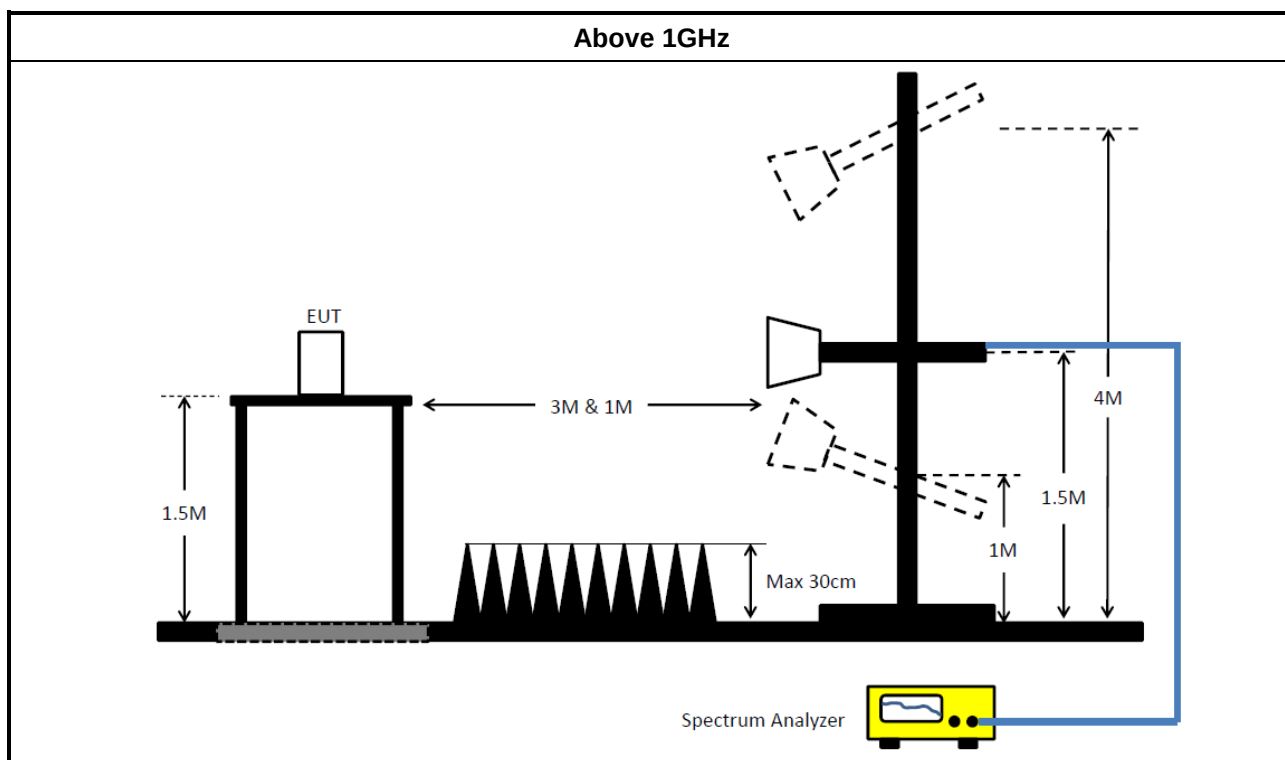
3.6.4 Measurement Results Calculation

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	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101274	9kHz ~ 30MHz	18/Jun/2024	17/Jun/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	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	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	01/Apr/2024	31/Mar/2025
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	02/Apr/2024	01/Apr/2025
SENSE-15247_DTS	Sporton	V5.11.20	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	30MHz~1GHz 3m	07/Aug/2024	06/Aug/2025
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	TESEQ & VGT	CBL 6111D & VFA 04002-06	63540/002	30MHz~1GHz	05/Jun/2024	04/Jun/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	9kHz~1GHz	21/Oct/2024	20/Oct/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 903	20230515-2	30MHz~1GHz	24/May/2024	23/May/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-154247-DTS	Sporton	V5.11.20	NA	NA	NA	NA

Instrument for Radiated Test (Co-location)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH26-HY	1GHz~18GHz 3m	07/Aug/2024	06/Aug/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3044	101411	10Hz~44GHz	09/Oct/2024	08/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02877	1GHz~18GHz	11/Jul/2024	10/Jul/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	HUBER+SUHNER	SUOFLEX 104	CB009	1GHz~40GHz	21/Oct/2024	20/Oct/2025
Preamplifier	SGH	PRAMP 118-H	20230515-4	1GHz ~18GHz	24/May/2024	23/May/2025
Amplifier	EM	EM18G40G	060874	18GHz ~ 40GHz	15/Apr/2024	14/Apr/2025
SENSE-EMI	Sporton	V5.11.8	NA	NA	NA	NA



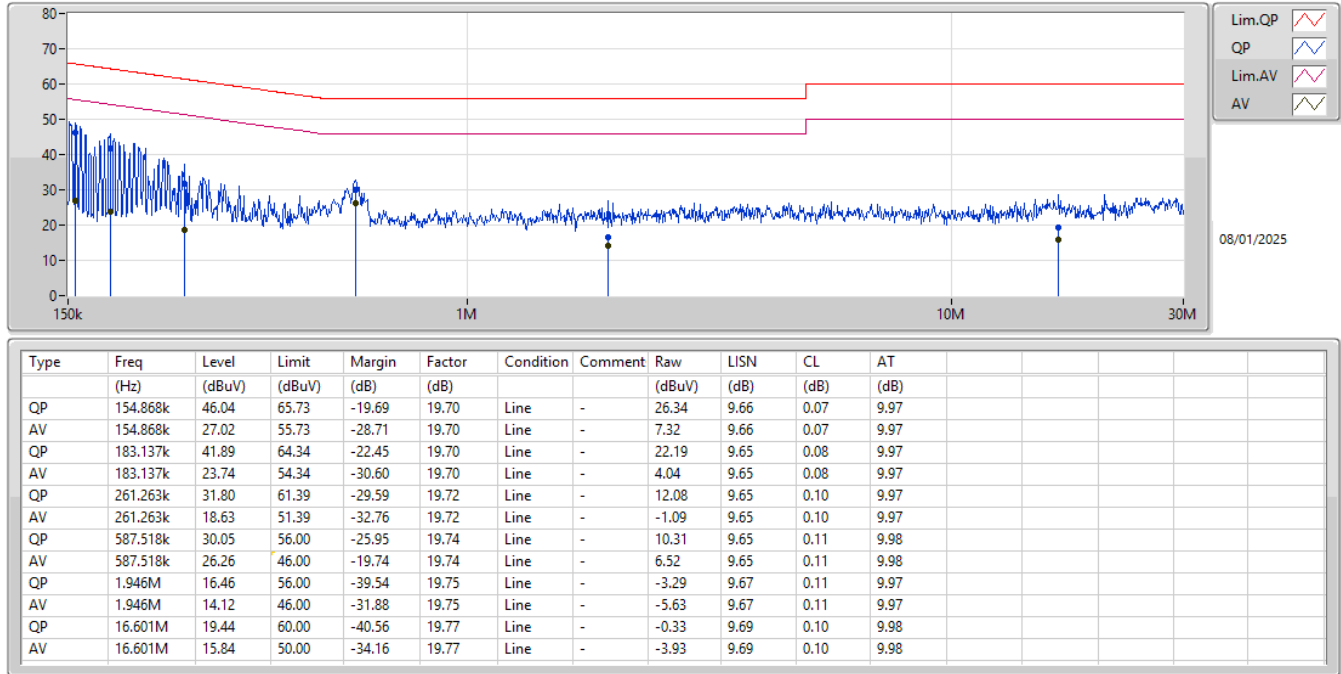
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.868k	46.04	65.73	-19.69	Line

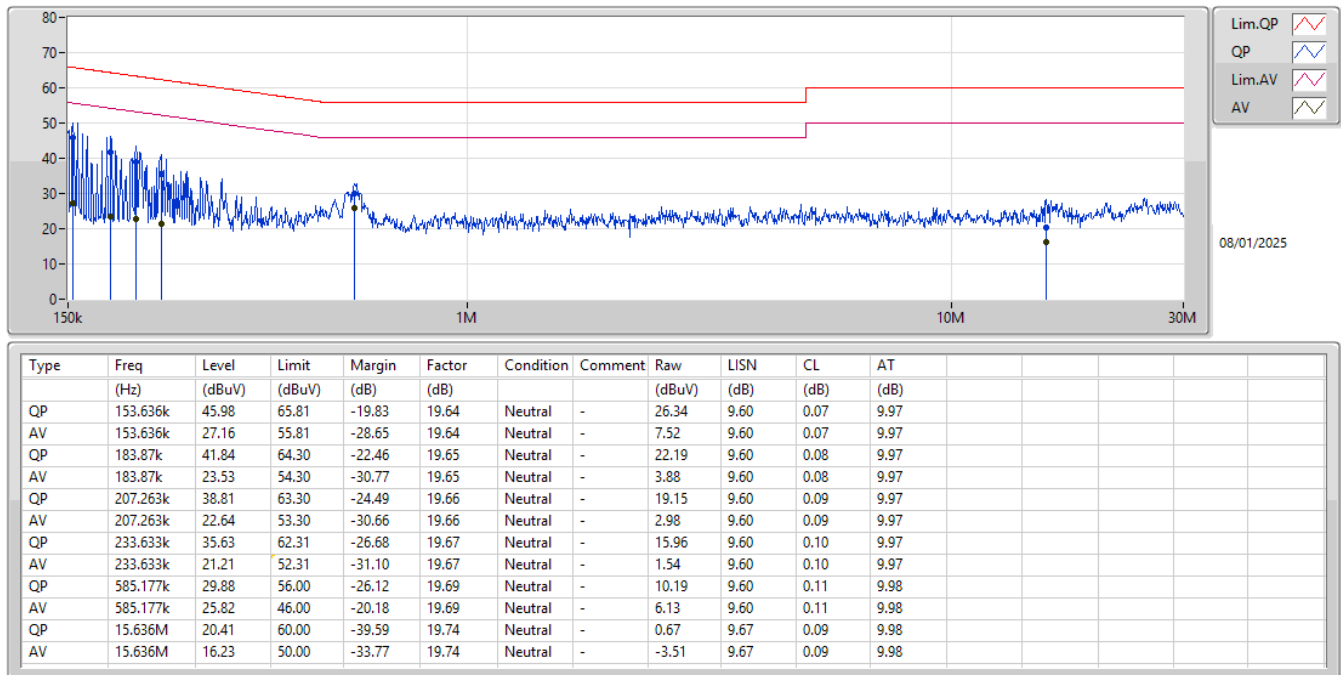
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.868k	46.04	65.73	-19.69	Line
Mode 1	Pass	AV	154.868k	27.02	55.73	-28.71	Line
Mode 1	Pass	QP	183.137k	41.89	64.34	-22.45	Line
Mode 1	Pass	AV	183.137k	23.74	54.34	-30.60	Line
Mode 1	Pass	QP	261.263k	31.80	61.39	-29.59	Line
Mode 1	Pass	AV	261.263k	18.63	51.39	-32.76	Line
Mode 1	Pass	QP	587.518k	30.05	56.00	-25.95	Line
Mode 1	Pass	AV	587.518k	26.26	46.00	-19.74	Line
Mode 1	Pass	QP	1.946M	16.46	56.00	-39.54	Line
Mode 1	Pass	AV	1.946M	14.12	46.00	-31.88	Line
Mode 1	Pass	QP	16.601M	19.44	60.00	-40.56	Line
Mode 1	Pass	AV	16.601M	15.84	50.00	-34.16	Line
Mode 1	Pass	QP	153.636k	45.98	65.81	-19.83	Neutral
Mode 1	Pass	AV	153.636k	27.16	55.81	-28.65	Neutral
Mode 1	Pass	QP	183.87k	41.84	64.30	-22.46	Neutral
Mode 1	Pass	AV	183.87k	23.53	54.30	-30.77	Neutral
Mode 1	Pass	QP	207.263k	38.81	63.30	-24.49	Neutral
Mode 1	Pass	AV	207.263k	22.64	53.30	-30.66	Neutral
Mode 1	Pass	QP	233.633k	35.63	62.31	-26.68	Neutral
Mode 1	Pass	AV	233.633k	21.21	52.31	-31.10	Neutral
Mode 1	Pass	QP	585.177k	29.88	56.00	-26.12	Neutral
Mode 1	Pass	AV	585.177k	25.82	46.00	-20.18	Neutral
Mode 1	Pass	QP	15.636M	20.41	60.00	-39.59	Neutral
Mode 1	Pass	AV	15.636M	16.23	50.00	-33.77	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1





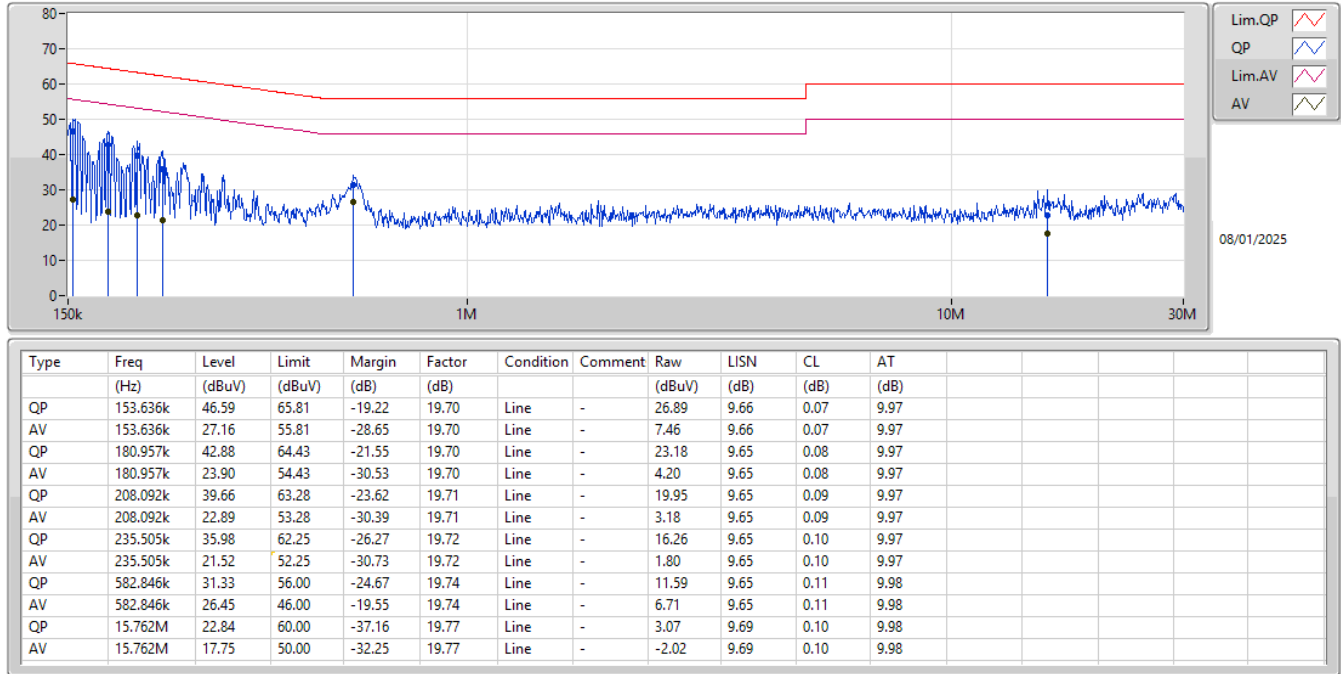
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.636k	46.59	65.81	-19.22	Line

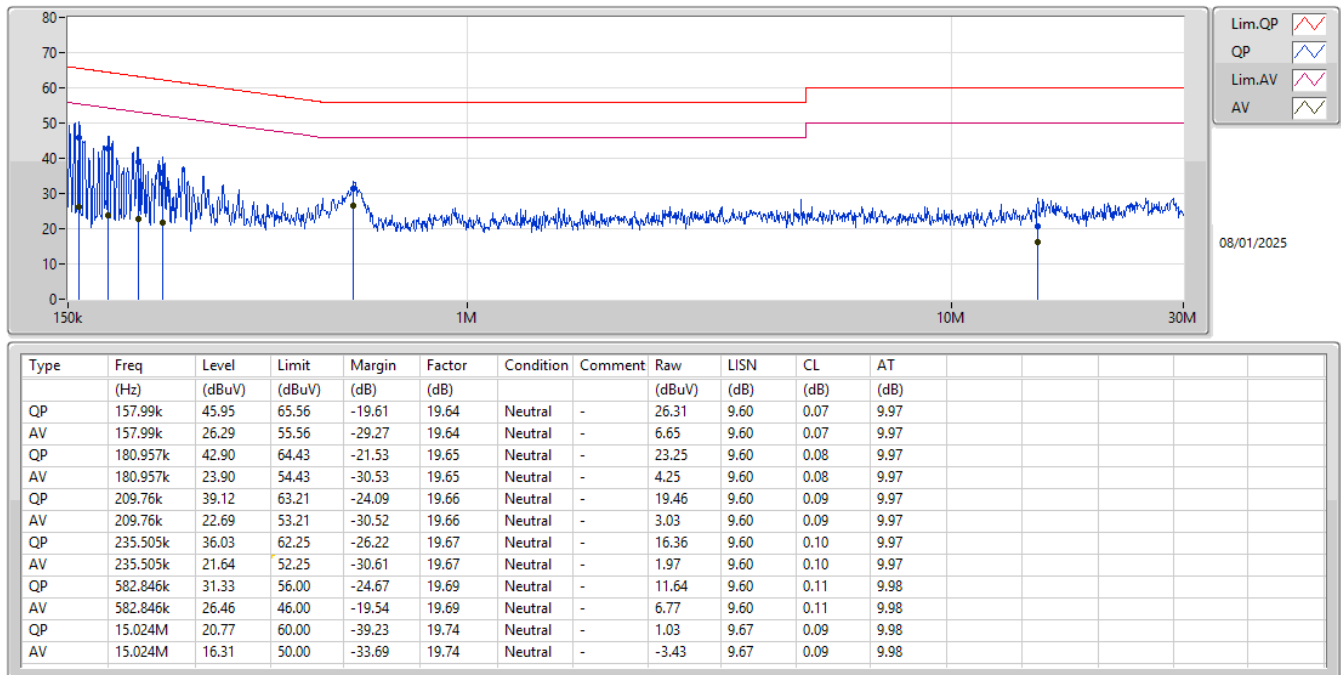
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.636k	46.59	65.81	-19.22	Line
Mode 1	Pass	AV	153.636k	27.16	55.81	-28.65	Line
Mode 1	Pass	QP	180.957k	42.88	64.43	-21.55	Line
Mode 1	Pass	AV	180.957k	23.90	54.43	-30.53	Line
Mode 1	Pass	QP	208.092k	39.66	63.28	-23.62	Line
Mode 1	Pass	AV	208.092k	22.89	53.28	-30.39	Line
Mode 1	Pass	QP	235.505k	35.98	62.25	-26.27	Line
Mode 1	Pass	AV	235.505k	21.52	52.25	-30.73	Line
Mode 1	Pass	QP	582.846k	31.33	56.00	-24.67	Line
Mode 1	Pass	AV	582.846k	26.45	46.00	-19.55	Line
Mode 1	Pass	QP	15.762M	22.84	60.00	-37.16	Line
Mode 1	Pass	AV	15.762M	17.75	50.00	-32.25	Line
Mode 1	Pass	QP	157.99k	45.95	65.56	-19.61	Neutral
Mode 1	Pass	AV	157.99k	26.29	55.56	-29.27	Neutral
Mode 1	Pass	QP	180.957k	42.90	64.43	-21.53	Neutral
Mode 1	Pass	AV	180.957k	23.90	54.43	-30.53	Neutral
Mode 1	Pass	QP	209.76k	39.12	63.21	-24.09	Neutral
Mode 1	Pass	AV	209.76k	22.69	53.21	-30.52	Neutral
Mode 1	Pass	QP	235.505k	36.03	62.25	-26.22	Neutral
Mode 1	Pass	AV	235.505k	21.64	52.25	-30.61	Neutral
Mode 1	Pass	QP	582.846k	31.33	56.00	-24.67	Neutral
Mode 1	Pass	AV	582.846k	26.46	46.00	-19.54	Neutral
Mode 1	Pass	QP	15.024M	20.77	60.00	-39.23	Neutral
Mode 1	Pass	AV	15.024M	16.31	50.00	-33.69	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1





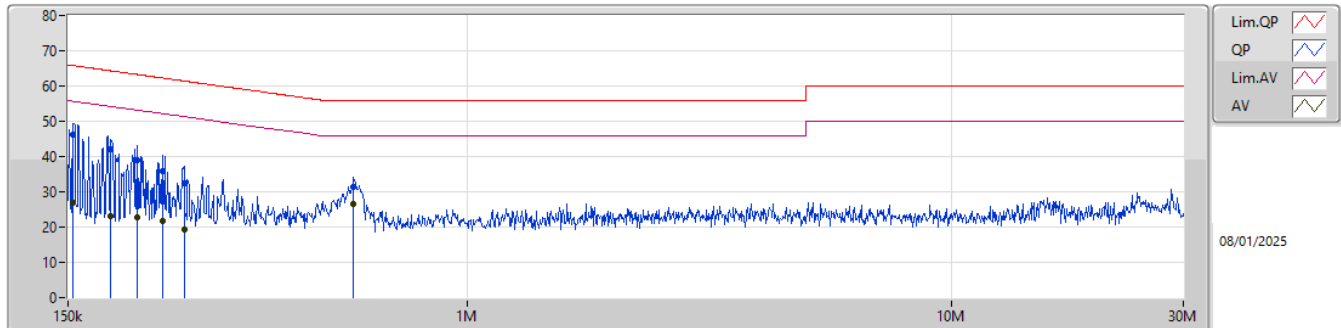
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	582.846k	26.67	46.00	-19.33	Line

Result

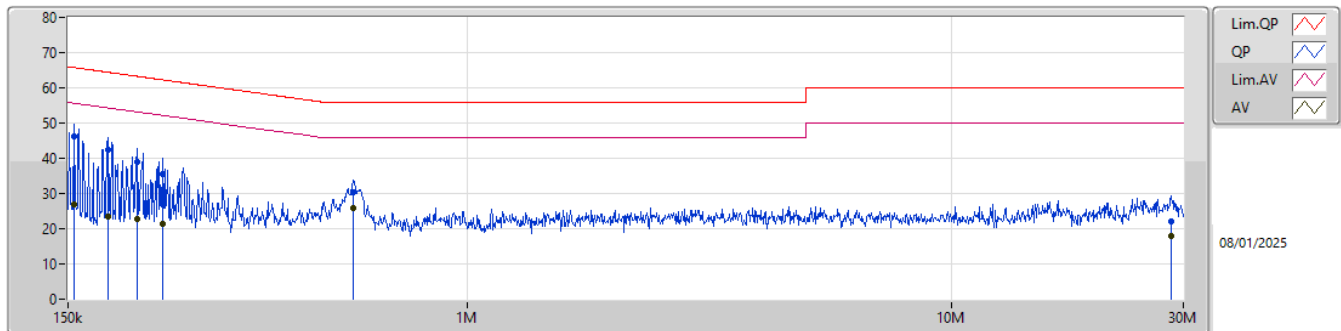
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.636k	46.05	65.81	-19.76	Line
Mode 1	Pass	AV	153.636k	26.81	55.81	-29.00	Line
Mode 1	Pass	QP	183.87k	41.90	64.30	-22.40	Line
Mode 1	Pass	AV	183.87k	23.15	54.30	-31.15	Line
Mode 1	Pass	QP	208.925k	38.90	63.25	-24.35	Line
Mode 1	Pass	AV	208.925k	22.70	53.25	-30.55	Line
Mode 1	Pass	QP	234.567k	35.81	62.29	-26.48	Line
Mode 1	Pass	AV	234.567k	21.58	52.29	-30.71	Line
Mode 1	Pass	QP	260.222k	32.43	61.43	-29.00	Line
Mode 1	Pass	AV	260.222k	19.22	51.43	-32.21	Line
Mode 1	Pass	QP	582.846k	31.53	56.00	-24.47	Line
Mode 1	Pass	AV	582.846k	26.67	46.00	-19.33	Line
Mode 1	Pass	QP	154.251k	46.07	65.77	-19.70	Neutral
Mode 1	Pass	AV	154.251k	26.78	55.77	-28.99	Neutral
Mode 1	Pass	QP	181.681k	42.32	64.41	-22.09	Neutral
Mode 1	Pass	AV	181.681k	23.58	54.41	-30.83	Neutral
Mode 1	Pass	QP	208.925k	38.84	63.25	-24.41	Neutral
Mode 1	Pass	AV	208.925k	22.59	53.25	-30.66	Neutral
Mode 1	Pass	QP	235.505k	35.49	62.25	-26.76	Neutral
Mode 1	Pass	AV	235.505k	21.42	52.25	-30.83	Neutral
Mode 1	Pass	QP	580.524k	30.49	56.00	-25.51	Neutral
Mode 1	Pass	AV	580.524k	25.95	46.00	-20.05	Neutral
Mode 1	Pass	QP	28.344M	22.14	60.00	-37.86	Neutral
Mode 1	Pass	AV	28.344M	17.90	50.00	-32.10	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	153.636k	46.05	65.81	-19.76	19.70	Line	-	26.35	9.66	0.07	9.97						
AV	153.636k	26.81	55.81	-29.00	19.70	Line	-	7.11	9.66	0.07	9.97						
QP	183.87k	41.90	64.30	-22.40	19.70	Line	-	22.20	9.65	0.08	9.97						
AV	183.87k	23.15	54.30	-31.15	19.70	Line	-	3.45	9.65	0.08	9.97						
QP	208.925k	38.90	63.25	-24.35	19.71	Line	-	19.19	9.65	0.09	9.97						
AV	208.925k	22.70	53.25	-30.55	19.71	Line	-	2.99	9.65	0.09	9.97						
QP	234.567k	35.81	62.29	-26.48	19.72	Line	-	16.09	9.65	0.10	9.97						
AV	234.567k	21.58	52.29	-30.71	19.72	Line	-	1.86	9.65	0.10	9.97						
QP	260.222k	32.43	61.43	-29.00	19.72	Line	-	12.71	9.65	0.10	9.97						
AV	260.222k	19.22	51.43	-32.21	19.72	Line	-	-0.50	9.65	0.10	9.97						
QP	582.846k	31.53	56.00	-24.47	19.74	Line	-	11.79	9.65	0.11	9.98						
AV	582.846k	26.67	46.00	-19.33	19.74	Line	-	6.93	9.65	0.11	9.98						

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	154.251k	46.07	65.77	-19.70	19.64	Neutral	-	26.43	9.60	0.07	9.97						
AV	154.251k	26.78	55.77	-28.99	19.64	Neutral	-	7.14	9.60	0.07	9.97						
QP	181.681k	42.32	64.41	-22.09	19.65	Neutral	-	22.67	9.60	0.08	9.97						
AV	181.681k	23.58	54.41	-30.83	19.65	Neutral	-	3.93	9.60	0.08	9.97						
QP	208.925k	38.84	63.25	-24.41	19.66	Neutral	-	19.18	9.60	0.09	9.97						
AV	208.925k	22.59	53.25	-30.66	19.66	Neutral	-	2.93	9.60	0.09	9.97						
QP	235.505k	35.49	62.25	-26.76	19.67	Neutral	-	15.82	9.60	0.10	9.97						
AV	235.505k	21.42	52.25	-30.83	19.67	Neutral	-	1.75	9.60	0.10	9.97						
QP	580.524k	30.49	56.00	-25.51	19.69	Neutral	-	10.80	9.60	0.11	9.98						
AV	580.524k	25.95	46.00	-20.05	19.69	Neutral	-	6.26	9.60	0.11	9.98						
QP	28.344M	22.14	60.00	-37.86	19.88	Neutral	-	2.26	9.65	0.27	9.96						
AV	28.344M	17.90	50.00	-32.10	19.88	Neutral	-	-1.98	9.65	0.27	9.96						

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)_1TX	9.025M	11.739M	11M7G1D	7.65M	11.454M
802.11g_Nss1,(6Mbps)_1TX	16.425M	17.063M	17M1D1D	16.3M	16.536M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.725M	18.841M	18M8D1D	17.925M	18.791M

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

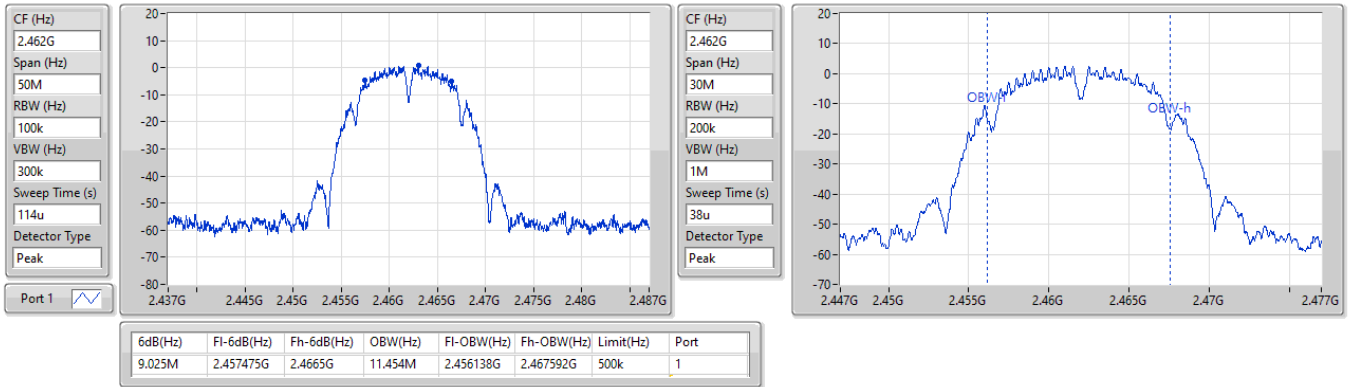
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	7.65M	11.709M
2437MHz	Pass	500k	7.95M	11.739M
2462MHz	Pass	500k	9.025M	11.454M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.536M
2437MHz	Pass	500k	16.425M	17.063M
2462MHz	Pass	500k	16.425M	16.58M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.925M	18.841M
2437MHz	Pass	500k	18.725M	18.791M
2462MHz	Pass	500k	18.225M	18.816M

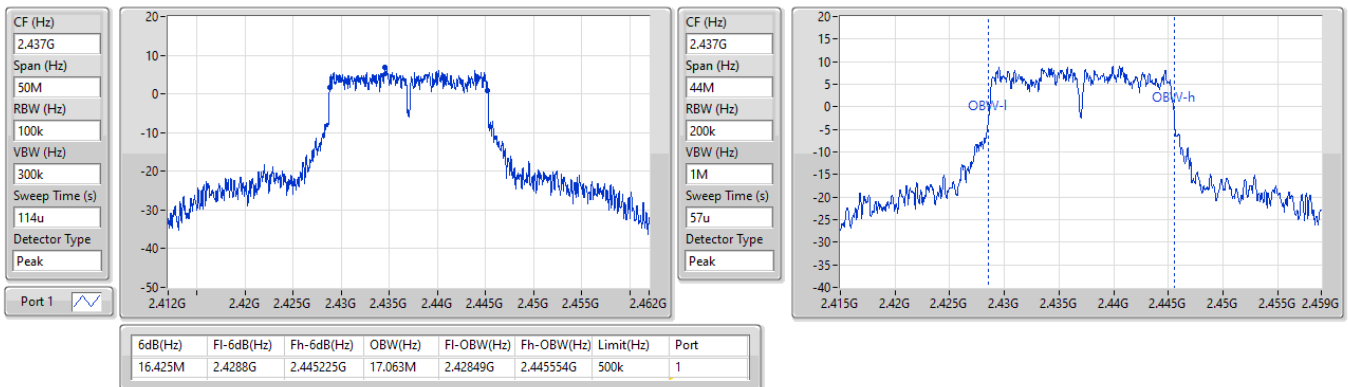
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

27/12/2024


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

27/12/2024

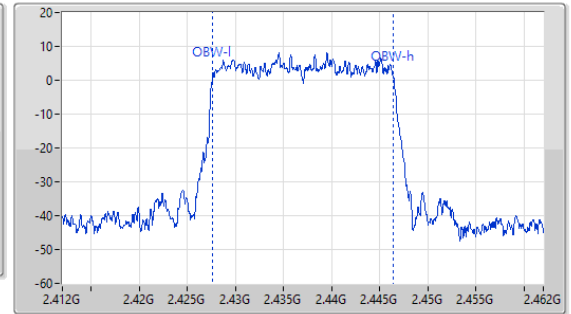
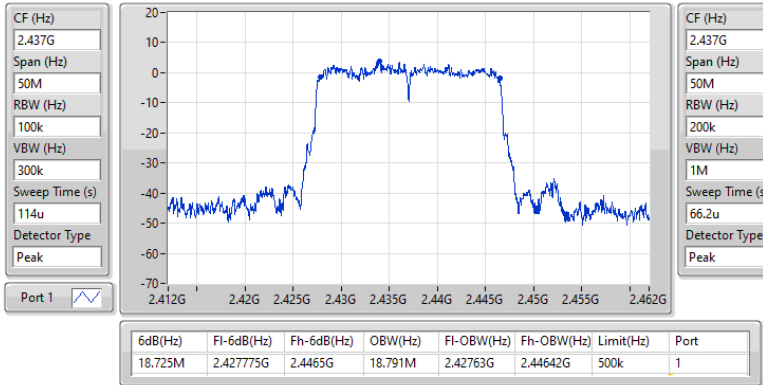


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2437MHz

27/12/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	13.61	0.02296
802.11g_Nss1,(6Mbps)_1TX	20.47	0.11143
802.11ax HEW20_Nss1,(MCS0)_1TX	18.04	0.06368



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.10	13.58	13.58	30.00
2417MHz	Pass	4.10	13.61	13.61	30.00
2437MHz	Pass	4.10	12.81	12.81	30.00
2457MHz	Pass	4.10	10.40	10.40	30.00
2462MHz	Pass	4.10	10.76	10.76	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.10	13.75	13.75	30.00
2417MHz	Pass	4.10	15.66	15.66	30.00
2437MHz	Pass	4.10	20.47	20.47	30.00
2457MHz	Pass	4.10	16.85	16.85	30.00
2462MHz	Pass	4.10	16.75	16.75	30.00
802.11ax_HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.10	11.93	11.93	30.00
2417MHz	Pass	4.10	15.33	15.33	30.00
2437MHz	Pass	4.10	18.04	18.04	30.00
2457MHz	Pass	4.10	16.93	16.93	30.00
2462MHz	Pass	4.10	15.43	15.43	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-10.91
802.11g_Nss1,(6Mbps)_1TX	-5.87
802.11ax HEW20_Nss1,(MCS0)_1TX	-8.76

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.10	-10.91	-10.91	8.00
2437MHz	Pass	4.10	-11.15	-11.15	8.00
2462MHz	Pass	4.10	-12.99	-12.99	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	4.10	-11.95	-11.95	8.00
2437MHz	Pass	4.10	-5.87	-5.87	8.00
2462MHz	Pass	4.10	-9.70	-9.70	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	4.10	-14.53	-14.53	8.00
2437MHz	Pass	4.10	-8.76	-8.76	8.00
2462MHz	Pass	4.10	-11.25	-11.25	8.00

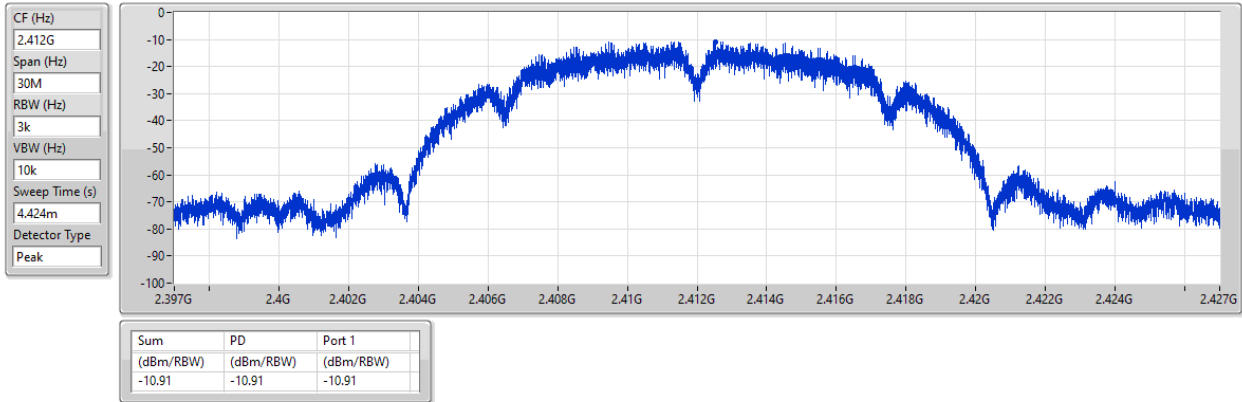
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

27/12/2024

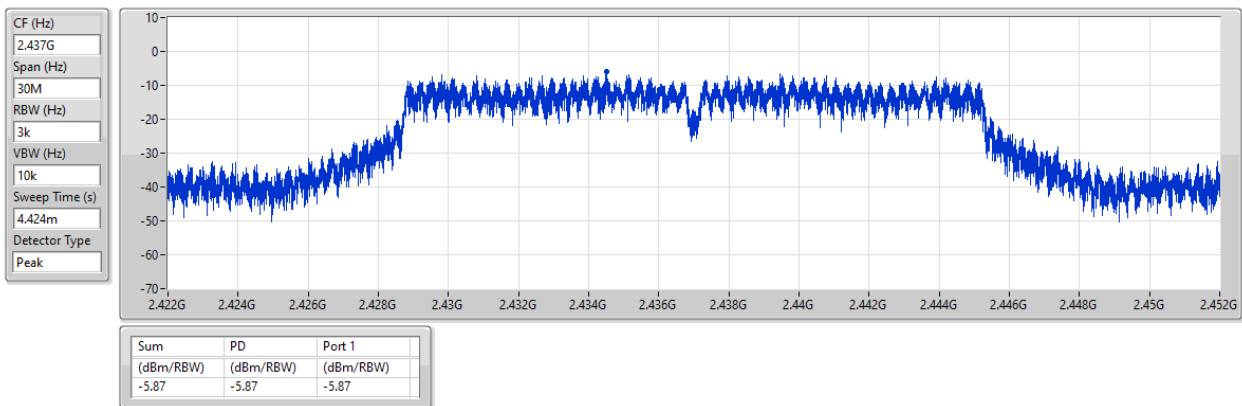


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

27/12/2024

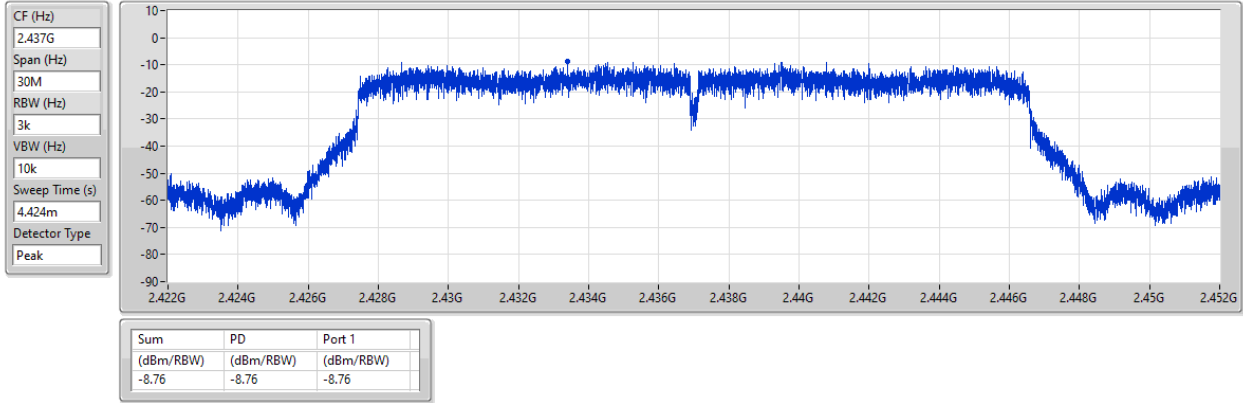


2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

27/12/2024





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41136G	4.78	-25.22	889.77M	-56.15	2.39952G	-51.02	2.4G	-52.49	2.50006G	-53.96	16.21731G	-41.11	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43941G	10.22	-19.78	2.30758G	-55.12	2.39704G	-36.28	2.4G	-37.10	2.50014G	-47.12	23.30864G	-42.29	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.43941G	7.87	-22.13	931.71M	-56.10	2.39784G	-40.79	2.4G	-43.35	2.51446G	-54.05	17.6249G	-41.94	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41136G	4.78	-25.22	889.77M	-56.15	2.39952G	-51.02	2.4G	-52.49	2.50006G	-53.96	16.21731G	-41.11	1
2437MHz	Pass	2.41136G	4.78	-25.22	2.30991G	-55.88	2.39272G	-54.68	2.4G	-56.43	2.52158G	-53.56	17.68671G	-42.70	1
2462MHz	Pass	2.41136G	4.78	-25.22	2.13749G	-56.00	2.39536G	-54.45	2.4G	-55.86	2.50806G	-53.76	23.29741G	-42.20	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43941G	10.22	-19.78	2.16312G	-56.30	2.39968G	-40.79	2.4G	-43.29	2.51318G	-53.14	16.25945G	-40.81	1
2437MHz	Pass	2.43941G	10.22	-19.78	2.30758G	-55.12	2.39704G	-36.28	2.4G	-37.10	2.50014G	-47.12	23.30864G	-42.29	1
2462MHz	Pass	2.43941G	10.22	-19.78	887.44M	-55.07	2.3992G	-52.42	2.4G	-54.52	2.50198G	-50.05	23.31145G	-41.77	1
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43941G	7.87	-22.13	931.71M	-56.10	2.39784G	-40.79	2.4G	-43.35	2.51446G	-54.05	17.6249G	-41.94	1
2437MHz	Pass	2.43941G	7.87	-22.13	2.30059G	-55.91	2.39984G	-45.16	2.4G	-45.14	2.51982G	-52.58	16.23978G	-41.52	1
2462MHz	Pass	2.43941G	7.87	-22.13	2.30408G	-55.66	2.39704G	-53.64	2.4G	-55.47	2.50894G	-51.40	23.37888G	-42.61	1

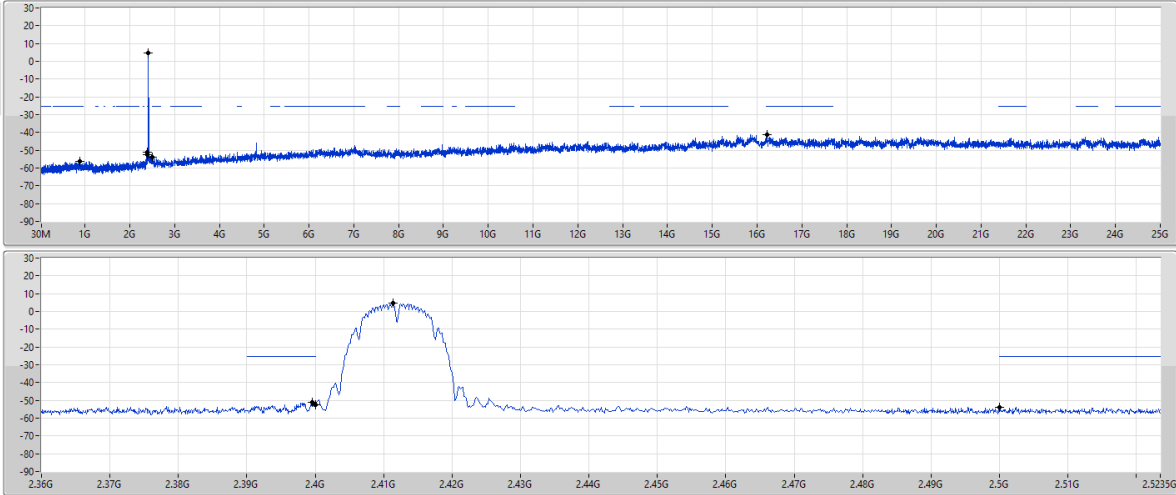
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

27/12/2024

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41136G	4.78	-25.22	889.77M	-56.15	2.39952G	-51.02	2.4G	-52.49	2.50006G	-53.96	16.21731G	-41.11	1

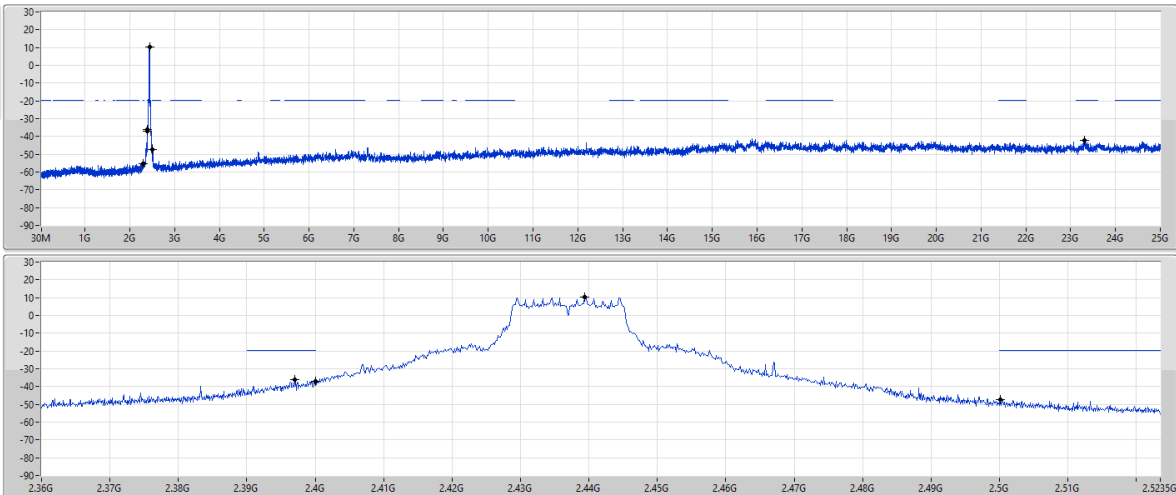
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2437MHz

27/12/2024

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43941G	10.22	-19.78	2.30758G	-55.12	2.39704G	-36.28	2.4G	-37.10	2.50014G	-47.12	23.30864G	-42.29	1

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

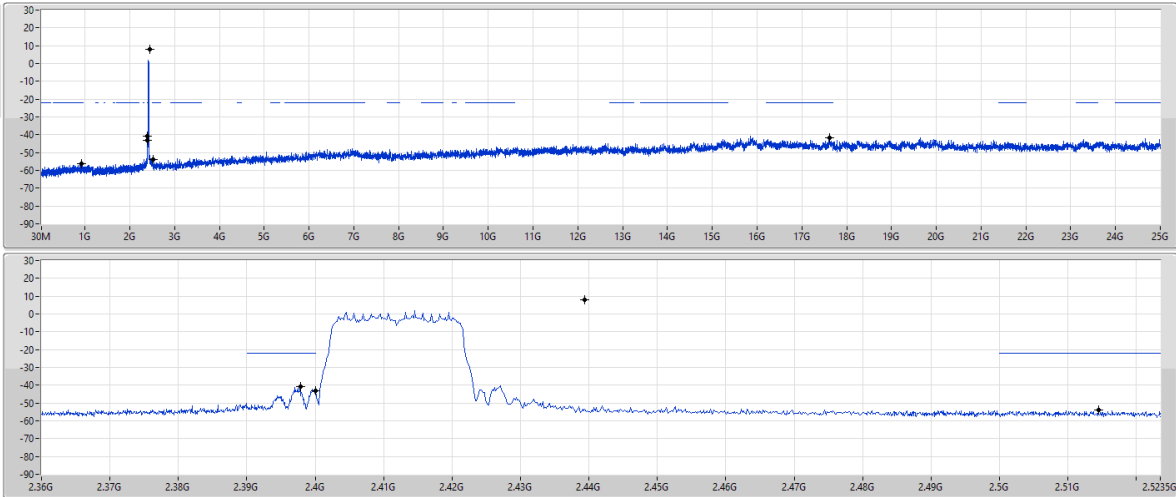
CSEndB

2412MHz

27/12/2024

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

Port 1



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
2.43941G	7.87	-22.13	931.71M	-56.10	2.39784G	-40.79	2.4G	-43.35	2.51446G	-54.05	17.6249G	-41.94	1



Summary

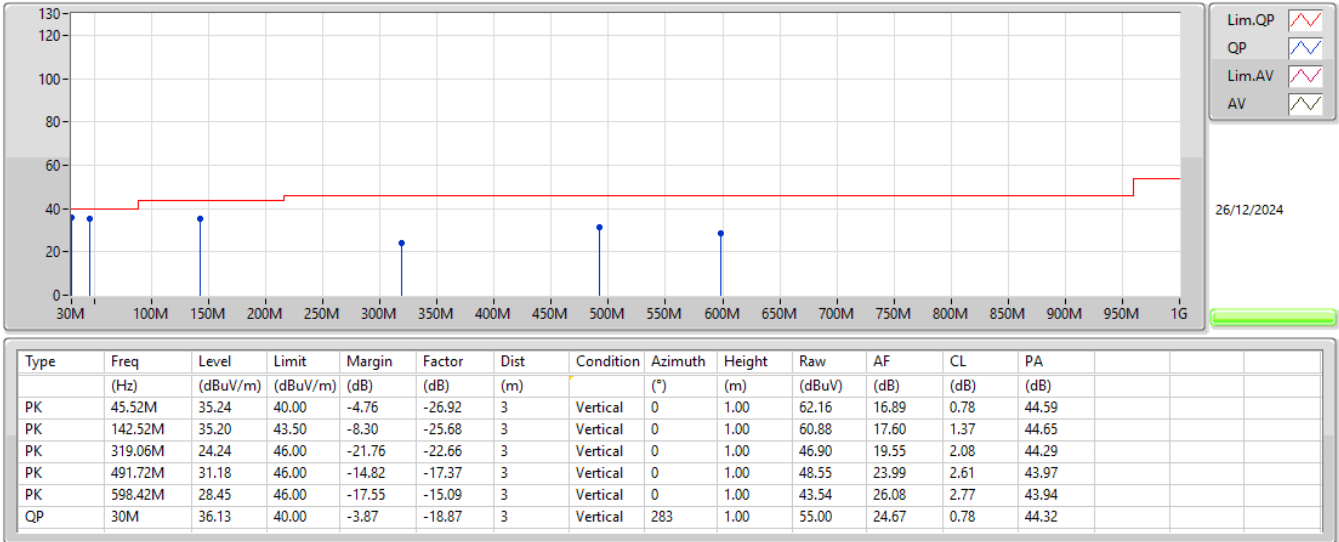
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	QP	30M	36.13	40.00	-3.87	3	Vertical	283	1.00

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)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_Fixture	Pass	PK	45.52M	35.24	40.00	-4.76	3	Vertical	0	1.00
2437MHz_Fixture	Pass	PK	142.52M	35.20	43.50	-8.30	3	Vertical	0	1.00
2437MHz_Fixture	Pass	PK	319.06M	24.24	46.00	-21.76	3	Vertical	0	1.00
2437MHz_Fixture	Pass	PK	491.72M	31.18	46.00	-14.82	3	Vertical	0	1.00
2437MHz_Fixture	Pass	PK	598.42M	28.45	46.00	-17.55	3	Vertical	0	1.00
2437MHz_Fixture	Pass	QP	30M	36.13	40.00	-3.87	3	Vertical	283	1.00
2437MHz_Fixture	Pass	PK	30M	29.80	40.00	-10.20	3	Horizontal	360	1.00
2437MHz_Fixture	Pass	PK	107.6M	31.77	43.50	-11.73	3	Horizontal	360	1.00
2437MHz_Fixture	Pass	PK	274.44M	32.45	46.00	-13.55	3	Horizontal	360	1.00
2437MHz_Fixture	Pass	PK	398.6M	28.99	46.00	-17.01	3	Horizontal	360	1.00
2437MHz_Fixture	Pass	PK	491.72M	28.11	46.00	-17.89	3	Horizontal	360	1.00
2437MHz_Fixture	Pass	PK	825.4M	30.66	46.00	-15.34	3	Horizontal	360	1.00

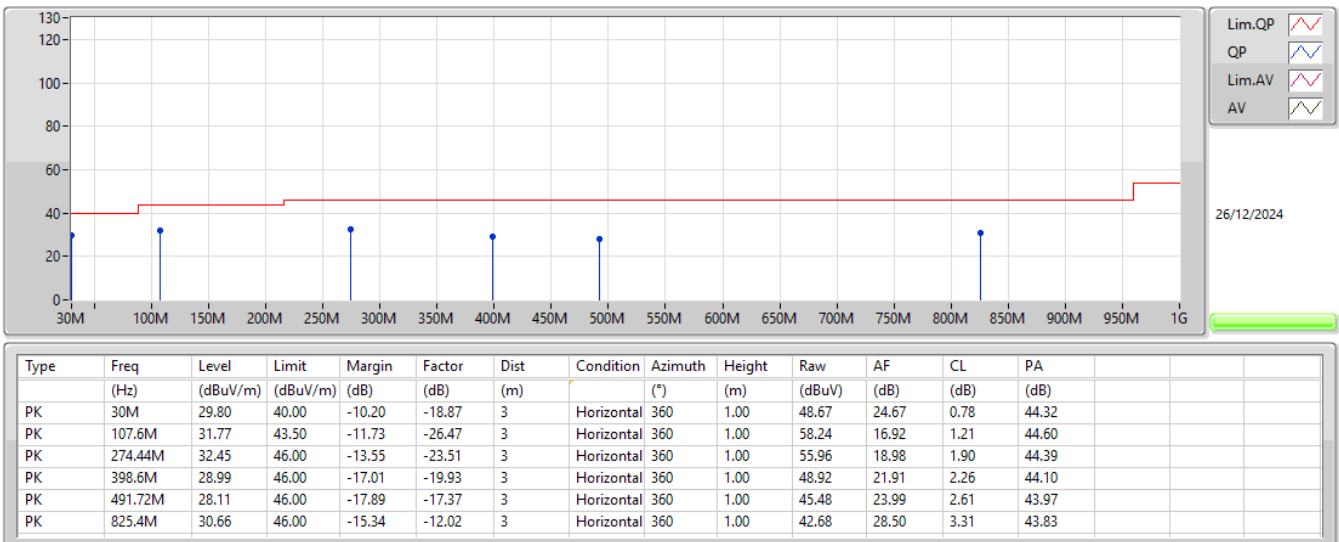
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Fixture



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Fixture





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)_1TX	Pass	AV	4.82396G	51.96	54.00	-2.04	3	Horizontal	98	1.01
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	51.21	54.00	-2.79	3	Vertical	188	1.50
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	51.03	54.00	-2.97	3	Vertical	190	1.50

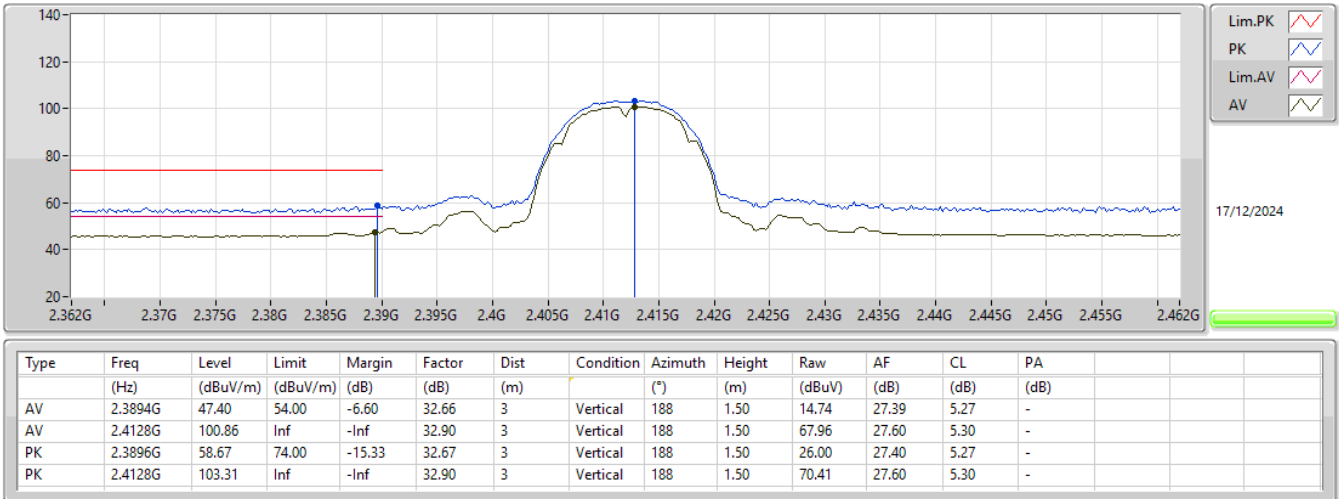
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	47.40	54.00	-6.60	3	Vertical	188	1.50
2412MHz	Pass	AV	2.4128G	100.86	Inf	-Inf	3	Vertical	188	1.50
2412MHz	Pass	PK	2.3896G	58.67	74.00	-15.33	3	Vertical	188	1.50
2412MHz	Pass	PK	2.4128G	103.31	Inf	-Inf	3	Vertical	188	1.50
2412MHz	Pass	AV	4.824G	51.59	54.00	-2.41	3	Vertical	346	1.03
2412MHz	Pass	PK	4.82396G	54.38	74.00	-19.62	3	Vertical	346	1.03
2412MHz	Pass	AV	4.82396G	51.96	54.00	-2.04	3	Horizontal	98	1.01
2412MHz	Pass	PK	4.82408G	54.50	74.00	-19.50	3	Horizontal	98	1.01
2417MHz	Pass	AV	2.3886G	46.63	54.00	-7.37	3	Vertical	190	1.50
2417MHz	Pass	AV	2.4178G	98.37	Inf	-Inf	3	Vertical	190	1.50
2417MHz	Pass	PK	2.3796G	58.18	74.00	-15.82	3	Vertical	190	1.50
2417MHz	Pass	PK	2.4178G	100.82	Inf	-Inf	3	Vertical	190	1.50
2417MHz	Pass	AV	4.834G	48.81	54.00	-5.19	3	Vertical	349	1.03
2417MHz	Pass	PK	4.83408G	52.53	74.00	-21.47	3	Vertical	349	1.03
2417MHz	Pass	AV	4.834G	51.65	54.00	-2.35	3	Horizontal	98	1.01
2417MHz	Pass	PK	4.83408G	54.65	74.00	-19.35	3	Horizontal	98	1.01
2437MHz	Pass	AV	2.389G	45.87	54.00	-8.13	3	Vertical	188	1.50
2437MHz	Pass	AV	2.4362G	101.02	Inf	-Inf	3	Vertical	188	1.50
2437MHz	Pass	AV	2.4838G	46.72	54.00	-7.28	3	Vertical	188	1.50
2437MHz	Pass	PK	2.3674G	58.24	74.00	-15.76	3	Vertical	188	1.50
2437MHz	Pass	PK	2.4362G	103.46	Inf	-Inf	3	Vertical	188	1.50
2437MHz	Pass	PK	2.4914G	58.50	74.00	-15.50	3	Vertical	188	1.50
2437MHz	Pass	AV	4.87396G	50.67	54.00	-3.33	3	Vertical	349	1.00
2437MHz	Pass	PK	4.87412G	53.45	74.00	-20.55	3	Vertical	349	1.00
2437MHz	Pass	AV	4.874G	51.81	54.00	-2.19	3	Horizontal	99	1.01
2437MHz	Pass	PK	4.874G	54.49	74.00	-19.51	3	Horizontal	99	1.01
2457MHz	Pass	AV	2.4578G	99.67	Inf	-Inf	3	Vertical	188	1.50
2457MHz	Pass	AV	2.489G	46.71	54.00	-7.29	3	Vertical	188	1.50
2457MHz	Pass	PK	2.458G	102.12	Inf	-Inf	3	Vertical	188	1.50
2457MHz	Pass	PK	2.4862G	58.16	74.00	-15.84	3	Vertical	188	1.50
2457MHz	Pass	AV	4.914G	50.69	54.00	-3.31	3	Vertical	349	1.26
2457MHz	Pass	PK	4.914G	53.75	74.00	-20.25	3	Vertical	349	1.26
2457MHz	Pass	AV	4.914G	51.23	54.00	-2.77	3	Horizontal	298	1.00
2457MHz	Pass	PK	4.91404G	53.84	74.00	-20.16	3	Horizontal	298	1.00
2462MHz	Pass	AV	2.4628G	101.83	Inf	-Inf	3	Vertical	190	1.49
2462MHz	Pass	AV	2.4835G	49.10	54.00	-4.90	3	Vertical	190	1.49
2462MHz	Pass	PK	2.4628G	104.26	Inf	-Inf	3	Vertical	190	1.49
2462MHz	Pass	PK	2.4904G	59.25	74.00	-14.75	3	Vertical	190	1.49
2462MHz	Pass	AV	4.92396G	50.15	54.00	-3.85	3	Vertical	348	1.11
2462MHz	Pass	PK	4.92388G	53.29	74.00	-20.71	3	Vertical	348	1.11
2462MHz	Pass	AV	4.924G	51.80	54.00	-2.20	3	Horizontal	299	1.00
2462MHz	Pass	PK	4.92404G	54.41	74.00	-19.59	3	Horizontal	299	1.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	50.09	54.00	-3.91	3	Vertical	188	1.50
2412MHz	Pass	AV	2.4146G	95.92	Inf	-Inf	3	Vertical	188	1.50
2412MHz	Pass	PK	2.3888G	63.51	74.00	-10.49	3	Vertical	188	1.50
2412MHz	Pass	PK	2.4144G	105.18	Inf	-Inf	3	Vertical	188	1.50
2412MHz	Pass	AV	4.824G	39.14	54.00	-14.86	3	Vertical	349	1.01
2412MHz	Pass	PK	4.82586G	51.26	74.00	-22.74	3	Vertical	349	1.01
2412MHz	Pass	AV	4.824G	38.18	54.00	-15.82	3	Horizontal	97	1.00
2412MHz	Pass	PK	4.82046G	50.68	74.00	-23.32	3	Horizontal	97	1.00
2417MHz	Pass	AV	2.3894G	47.69	54.00	-6.31	3	Vertical	190	1.50
2417MHz	Pass	AV	2.4196G	95.59	Inf	-Inf	3	Vertical	190	1.50
2417MHz	Pass	PK	2.3882G	61.33	74.00	-12.67	3	Vertical	190	1.50
2417MHz	Pass	PK	2.4204G	104.80	Inf	-Inf	3	Vertical	190	1.50
2437MHz	Pass	AV	2.3898G	50.06	54.00	-3.94	3	Vertical	188	1.50
2437MHz	Pass	AV	2.4346G	100.65	Inf	-Inf	3	Vertical	188	1.50
2437MHz	Pass	AV	2.4835G	51.21	54.00	-2.79	3	Vertical	188	1.50
2437MHz	Pass	PK	2.3898G	64.99	74.00	-9.01	3	Vertical	188	1.50
2437MHz	Pass	PK	2.4342G	110.05	Inf	-Inf	3	Vertical	188	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	2.4835G	70.91	74.00	-3.09	3	Vertical	188	1.50
2437MHz	Pass	AV	4.87396G	39.84	54.00	-14.16	3	Vertical	348	1.01
2437MHz	Pass	PK	4.87312G	51.73	74.00	-22.27	3	Vertical	348	1.01
2437MHz	Pass	AV	4.874G	38.86	54.00	-15.14	3	Horizontal	299	1.00
2437MHz	Pass	PK	4.87456G	52.15	74.00	-21.85	3	Horizontal	299	1.00
2457MHz	Pass	AV	2.4646G	96.47	Inf	-Inf	3	Vertical	190	1.50
2457MHz	Pass	AV	2.4835G	47.84	54.00	-6.16	3	Vertical	190	1.50
2457MHz	Pass	PK	2.4596G	105.41	Inf	-Inf	3	Vertical	190	1.50
2457MHz	Pass	PK	2.4874G	60.24	74.00	-13.76	3	Vertical	190	1.50
2462MHz	Pass	AV	2.4646G	96.83	Inf	-Inf	3	Vertical	189	1.49
2462MHz	Pass	AV	2.484G	48.73	54.00	-5.27	3	Vertical	189	1.49
2462MHz	Pass	PK	2.4654G	106.10	Inf	-Inf	3	Vertical	189	1.49
2462MHz	Pass	PK	2.4844G	61.77	74.00	-12.23	3	Vertical	189	1.49
2462MHz	Pass	AV	4.924G	38.38	54.00	-15.62	3	Vertical	36	1.01
2462MHz	Pass	PK	4.921G	50.68	74.00	-23.32	3	Vertical	36	1.01
2462MHz	Pass	AV	4.92376G	38.34	54.00	-15.66	3	Horizontal	298	1.00
2462MHz	Pass	PK	4.9276G	50.99	74.00	-23.01	3	Horizontal	298	1.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.03	54.00	-2.97	3	Vertical	190	1.50
2412MHz	Pass	AV	2.4196G	95.31	Inf	-Inf	3	Vertical	190	1.50
2412MHz	Pass	PK	2.3886G	64.61	74.00	-9.39	3	Vertical	190	1.50
2412MHz	Pass	PK	2.4198G	106.98	Inf	-Inf	3	Vertical	190	1.50
2412MHz	Pass	AV	4.82404G	38.31	54.00	-15.69	3	Vertical	349	1.01
2412MHz	Pass	PK	4.8306G	50.53	74.00	-23.47	3	Vertical	349	1.01
2412MHz	Pass	AV	4.82296G	36.99	54.00	-17.01	3	Horizontal	89	1.12
2412MHz	Pass	PK	4.82948G	49.69	74.00	-24.31	3	Horizontal	89	1.12
2417MHz	Pass	AV	2.3898G	48.75	54.00	-5.25	3	Vertical	190	1.50
2417MHz	Pass	AV	2.4196G	95.93	Inf	-Inf	3	Vertical	190	1.50
2417MHz	Pass	PK	2.388G	61.36	74.00	-12.64	3	Vertical	190	1.50
2417MHz	Pass	PK	2.424G	107.11	Inf	-Inf	3	Vertical	190	1.50
2437MHz	Pass	AV	2.3898G	49.46	54.00	-4.54	3	Vertical	189	1.50
2437MHz	Pass	AV	2.4342G	99.18	Inf	-Inf	3	Vertical	189	1.50
2437MHz	Pass	AV	2.4835G	50.35	54.00	-3.65	3	Vertical	189	1.50
2437MHz	Pass	PK	2.389G	63.31	74.00	-10.69	3	Vertical	189	1.50
2437MHz	Pass	PK	2.433G	111.06	Inf	-Inf	3	Vertical	189	1.50
2437MHz	Pass	PK	2.487G	66.05	74.00	-7.95	3	Vertical	189	1.50
2437MHz	Pass	AV	4.87396G	40.10	54.00	-13.90	3	Vertical	350	1.00
2437MHz	Pass	PK	4.87484G	51.50	74.00	-22.50	3	Vertical	350	1.00
2437MHz	Pass	AV	4.87396G	38.56	54.00	-15.44	3	Horizontal	88	1.00
2437MHz	Pass	PK	4.88052G	51.25	74.00	-22.75	3	Horizontal	88	1.00
2457MHz	Pass	AV	2.4646G	96.45	Inf	-Inf	3	Vertical	189	1.50
2457MHz	Pass	AV	2.4835G	48.46	54.00	-5.54	3	Vertical	189	1.50
2457MHz	Pass	PK	2.4606G	107.36	Inf	-Inf	3	Vertical	189	1.50
2457MHz	Pass	PK	2.4862G	60.77	74.00	-13.23	3	Vertical	189	1.50
2462MHz	Pass	AV	2.4646G	97.38	Inf	-Inf	3	Vertical	190	1.50
2462MHz	Pass	AV	2.484G	50.30	54.00	-3.70	3	Vertical	190	1.50
2462MHz	Pass	PK	2.464G	108.19	Inf	-Inf	3	Vertical	190	1.50
2462MHz	Pass	PK	2.4844G	65.74	74.00	-8.26	3	Vertical	190	1.50
2462MHz	Pass	AV	4.92396G	37.97	54.00	-16.03	3	Vertical	349	1.40
2462MHz	Pass	PK	4.92488G	50.38	74.00	-23.62	3	Vertical	349	1.40
2462MHz	Pass	AV	4.923G	37.84	54.00	-16.16	3	Horizontal	299	1.00
2462MHz	Pass	PK	4.92316G	50.71	74.00	-23.29	3	Horizontal	299	1.00

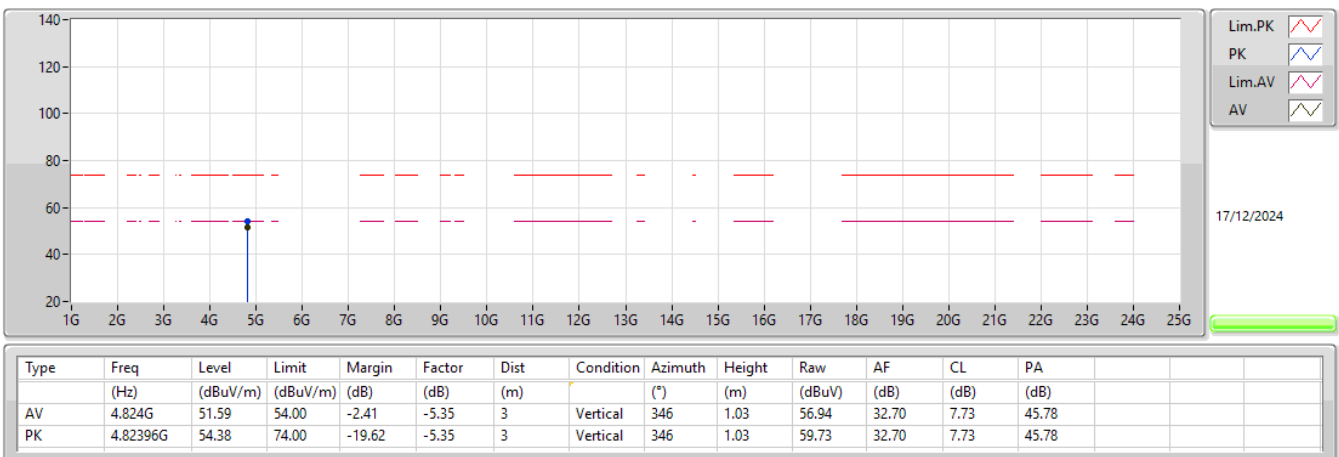
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



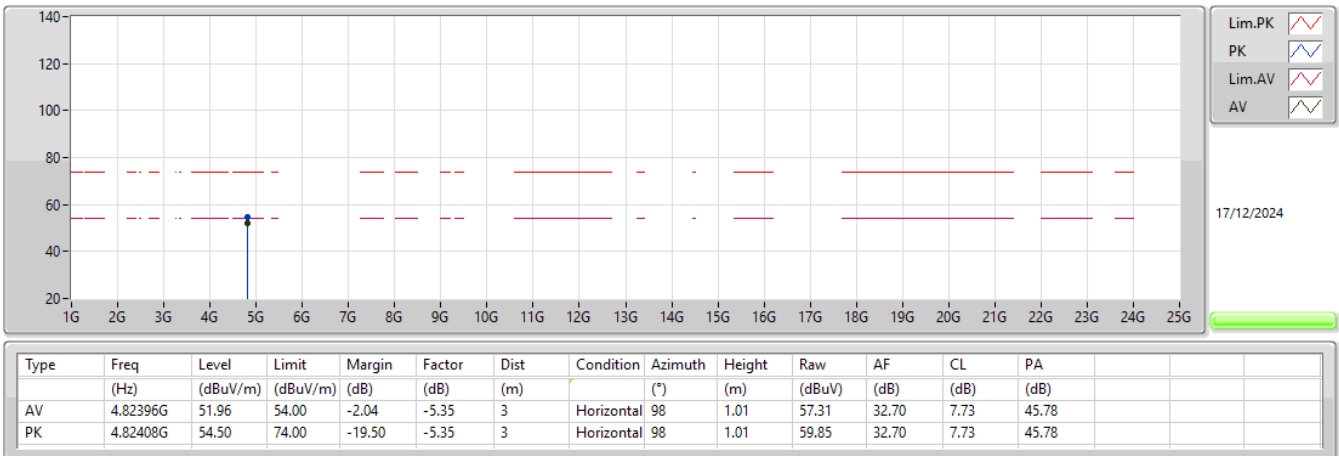
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2412MHz_TX



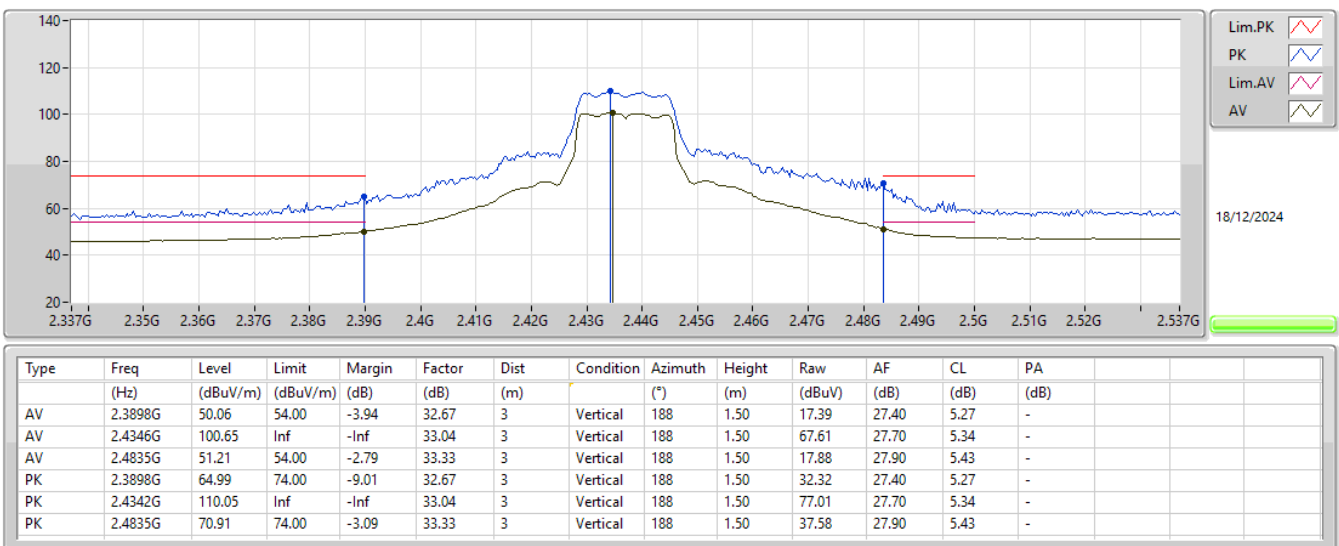
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2412MHz_TX



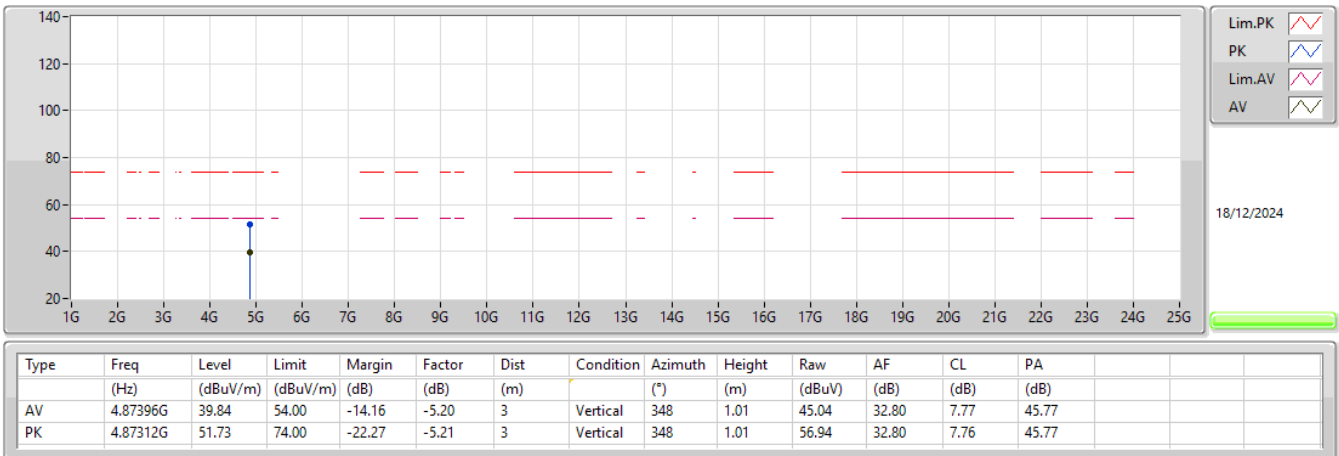
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2437MHz_TX



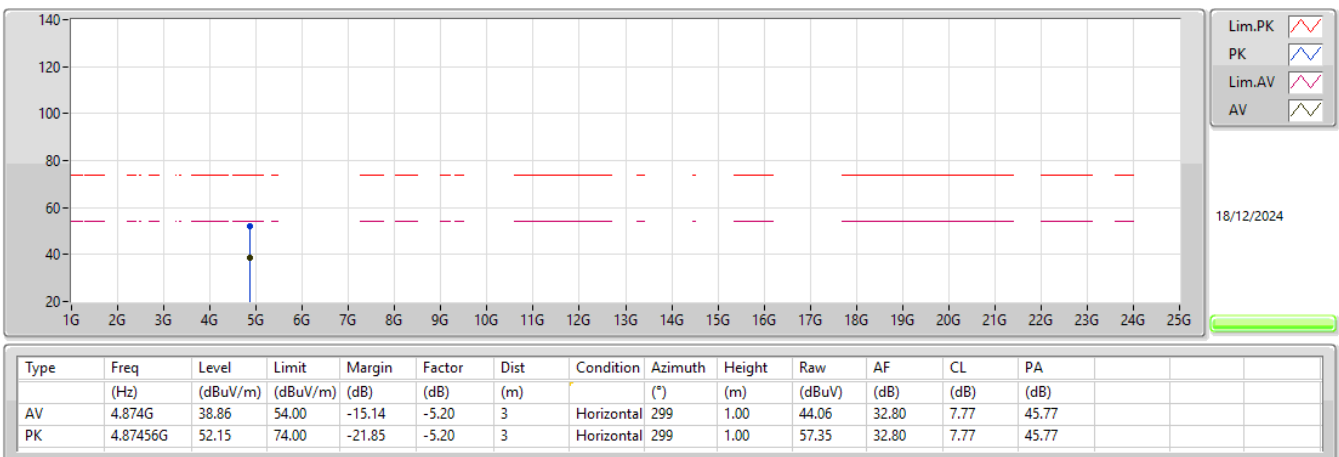
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2437MHz_TX



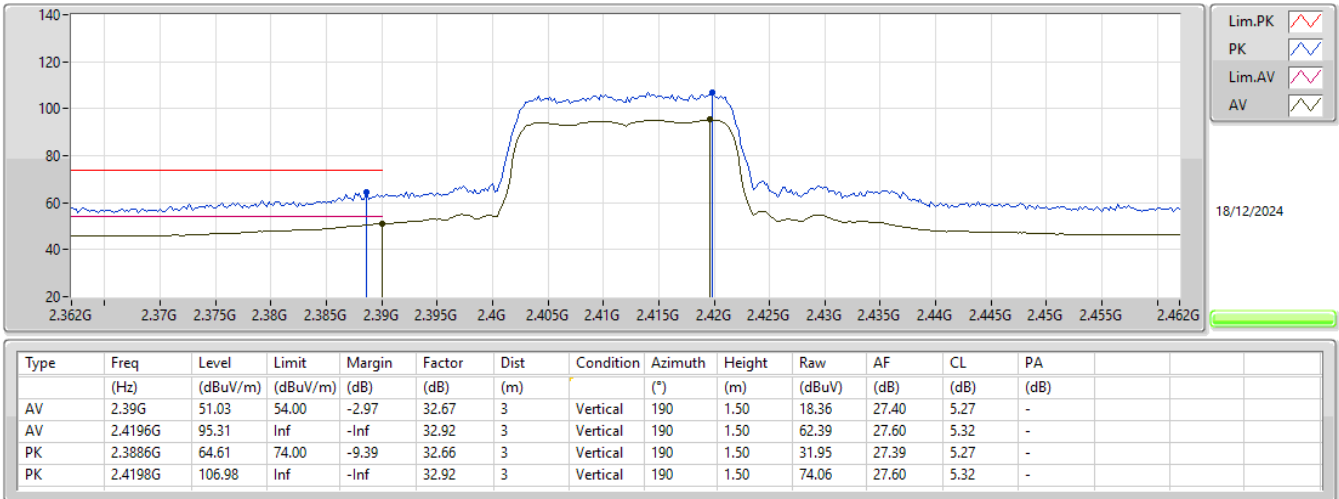
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



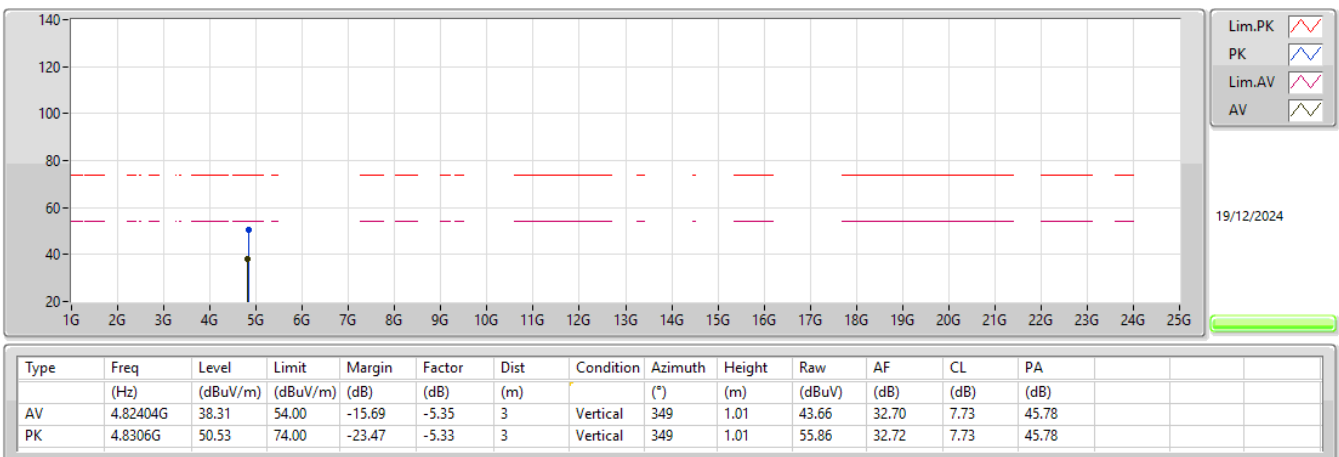
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



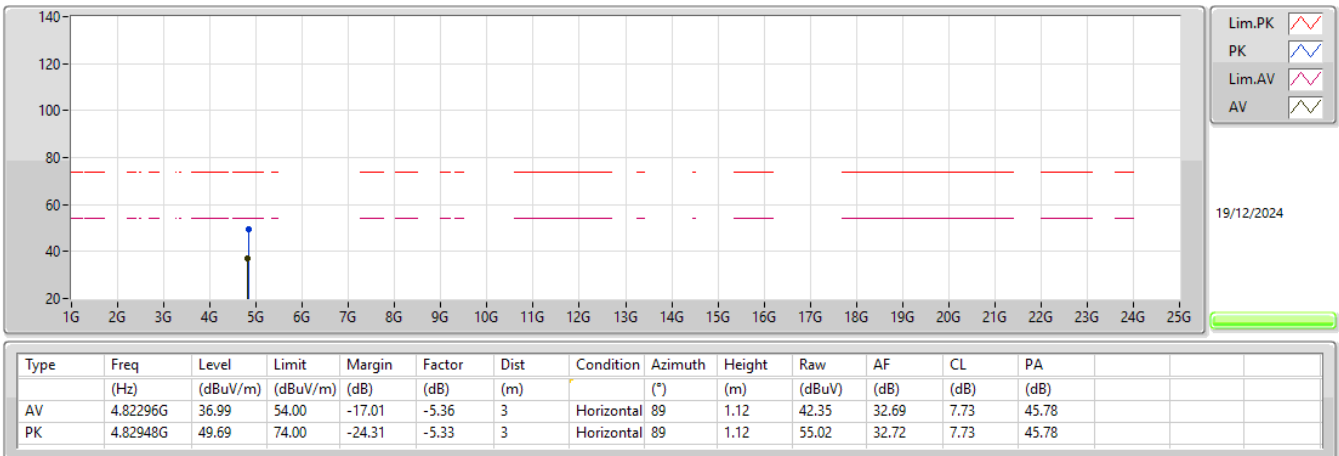
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX





Summary

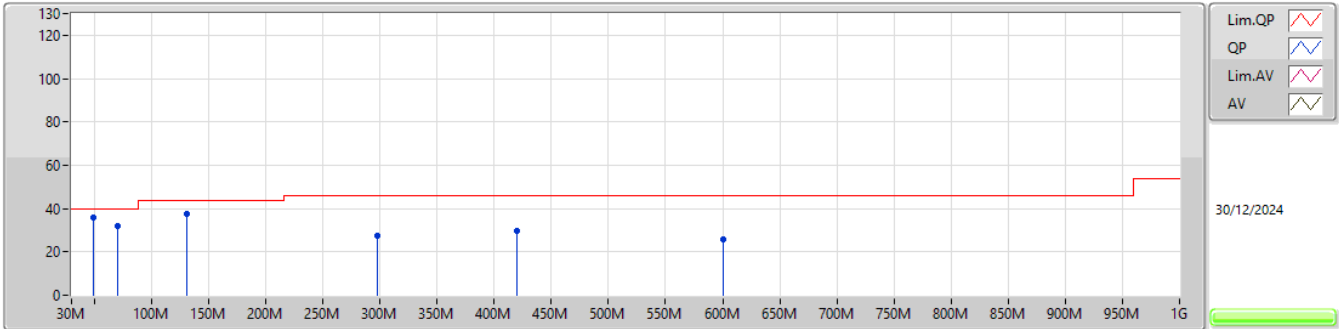
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	49.4M	36.05	40.00	-3.95	3	Vertical	360	1.00

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)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_Fixture	Pass	PK	49.4M	36.05	40.00	-3.95	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	70.74M	32.06	40.00	-7.94	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	130.88M	37.76	43.50	-5.74	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	297.72M	27.48	46.00	-18.52	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	419.94M	29.64	46.00	-16.36	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	600.36M	25.79	46.00	-20.21	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	78.5M	26.47	40.00	-13.53	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	132.82M	34.04	43.50	-9.46	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	216M	31.69	46.00	-14.31	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	299.66M	27.87	46.00	-18.13	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	456.8M	30.57	46.00	-15.43	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	827.34M	34.46	46.00	-11.54	3	Horizontal	0	1.00

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

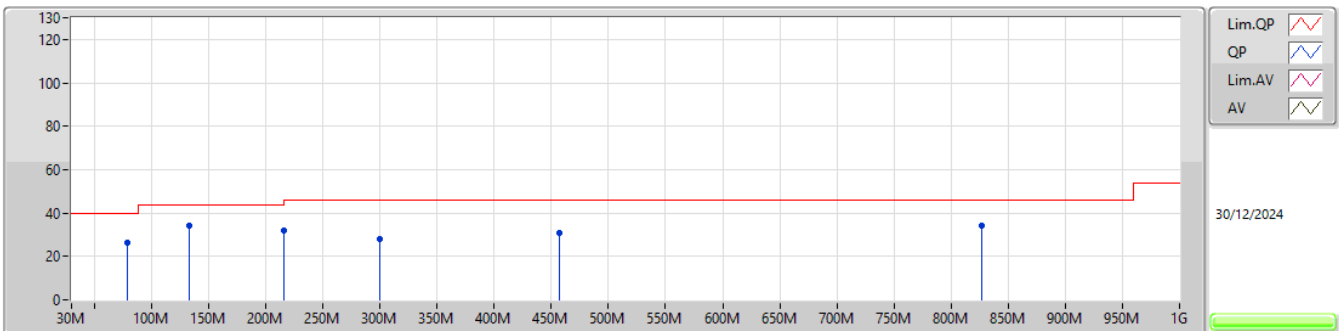
2437MHz_Fixture



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	49.4M	36.05	40.00	-3.95	-28.92	3	Vertical	360	1.00	64.97	14.90	0.81	44.63
PK	70.74M	32.06	40.00	-7.94	-31.29	3	Vertical	360	1.00	63.35	12.44	0.99	44.72
PK	130.88M	37.76	43.50	-5.74	-25.41	3	Vertical	360	1.00	63.17	17.91	1.32	44.64
PK	297.72M	27.48	46.00	-18.52	-22.93	3	Vertical	360	1.00	50.41	19.42	1.99	44.34
PK	419.94M	29.64	46.00	-16.36	-18.95	3	Vertical	360	1.00	48.59	22.80	2.32	44.07
PK	600.36M	25.79	46.00	-20.21	-15.15	3	Vertical	360	1.00	40.94	26.02	2.77	43.94

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Fixture



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	78.5M	26.47	40.00	-13.53	-30.32	3	Horizontal	0	1.00	56.79	13.34	1.04	44.70
PK	132.82M	34.04	43.50	-9.46	-25.53	3	Horizontal	0	1.00	59.57	17.78	1.33	44.64
PK	216M	31.69	46.00	-14.31	-27.41	3	Horizontal	0	1.00	59.10	15.42	1.68	44.51
PK	299.66M	27.87	46.00	-18.13	-22.90	3	Horizontal	0	1.00	50.77	19.43	2.00	44.33
PK	456.8M	30.57	46.00	-15.43	-18.23	3	Horizontal	0	1.00	48.80	23.36	2.43	44.02
PK	827.34M	34.46	46.00	-11.54	-11.95	3	Horizontal	0	1.00	46.41	28.57	3.31	43.83

**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)_1TX	Pass	AV	4.874G	51.91	54.00	-2.09	3	Vertical	318	1.43
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	51.37	54.00	-2.63	3	Vertical	360	1.50
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.3896G	50.92	54.00	-3.08	3	Vertical	0	1.50

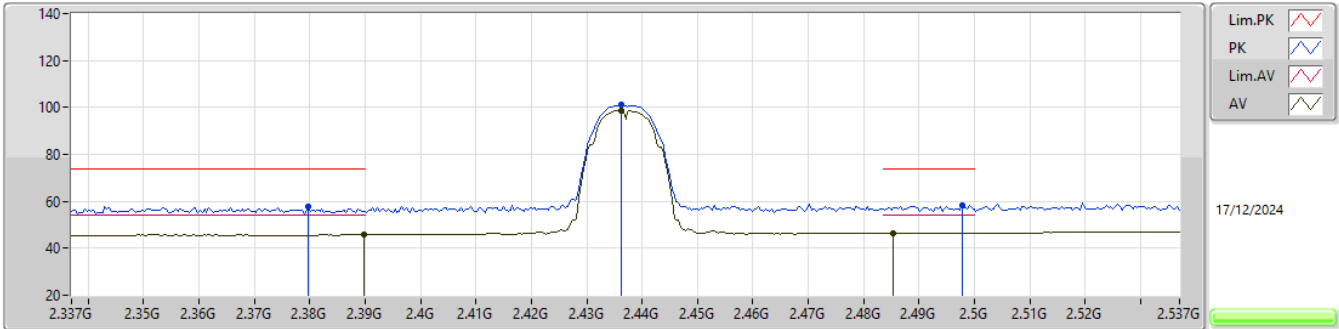
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	46.09	54.00	-7.91	3	Vertical	0	1.44
2412MHz	Pass	AV	2.4128G	99.58	Inf	-Inf	3	Vertical	0	1.44
2412MHz	Pass	PK	2.3738G	57.97	74.00	-16.03	3	Vertical	0	1.44
2412MHz	Pass	PK	2.4128G	102.03	Inf	-Inf	3	Vertical	0	1.44
2412MHz	Pass	AV	4.824G	51.30	54.00	-2.70	3	Vertical	318	1.50
2412MHz	Pass	PK	4.82392G	54.17	74.00	-19.83	3	Vertical	318	1.50
2412MHz	Pass	AV	4.82396G	44.54	54.00	-9.46	3	Horizontal	20	1.04
2412MHz	Pass	PK	4.824G	49.31	74.00	-24.69	3	Horizontal	20	1.04
2417MHz	Pass	AV	2.3886G	45.85	54.00	-8.15	3	Vertical	0	1.50
2417MHz	Pass	AV	2.4178G	98.93	Inf	-Inf	3	Vertical	0	1.50
2417MHz	Pass	PK	2.3696G	57.83	74.00	-16.17	3	Vertical	0	1.50
2417MHz	Pass	PK	2.418G	101.35	Inf	-Inf	3	Vertical	0	1.50
2417MHz	Pass	AV	4.834G	51.68	54.00	-2.32	3	Vertical	318	1.47
2417MHz	Pass	PK	4.83404G	54.84	74.00	-19.16	3	Vertical	318	1.47
2417MHz	Pass	AV	4.83404G	44.48	54.00	-9.52	3	Horizontal	12	1.31
2417MHz	Pass	PK	4.83404G	49.45	74.00	-24.55	3	Horizontal	12	1.31
2437MHz	Pass	AV	2.3898G	45.74	54.00	-8.26	3	Vertical	358	1.50
2437MHz	Pass	AV	2.4362G	98.66	Inf	-Inf	3	Vertical	358	1.50
2437MHz	Pass	AV	2.4854G	46.58	54.00	-7.42	3	Vertical	358	1.50
2437MHz	Pass	PK	2.3798G	57.81	74.00	-16.19	3	Vertical	358	1.50
2437MHz	Pass	PK	2.4362G	101.10	Inf	-Inf	3	Vertical	358	1.50
2437MHz	Pass	PK	2.4978G	58.27	74.00	-15.73	3	Vertical	358	1.50
2437MHz	Pass	AV	4.874G	51.91	54.00	-2.09	3	Vertical	318	1.43
2437MHz	Pass	PK	4.87396G	54.32	74.00	-19.68	3	Vertical	318	1.43
2437MHz	Pass	AV	4.874G	44.47	54.00	-9.53	3	Horizontal	13	1.08
2437MHz	Pass	PK	4.87404G	49.37	74.00	-24.63	3	Horizontal	13	1.08
2457MHz	Pass	AV	2.4562G	96.73	Inf	-Inf	3	Vertical	341	1.21
2457MHz	Pass	AV	2.4986G	47.02	54.00	-6.98	3	Vertical	341	1.21
2457MHz	Pass	PK	2.4562G	99.20	Inf	-Inf	3	Vertical	341	1.21
2457MHz	Pass	PK	2.4976G	59.73	74.00	-14.27	3	Vertical	341	1.21
2457MHz	Pass	AV	4.914G	51.51	54.00	-2.49	3	Vertical	316	2.23
2457MHz	Pass	PK	4.91396G	54.01	74.00	-19.99	3	Vertical	316	2.23
2457MHz	Pass	AV	4.91396G	43.79	54.00	-10.21	3	Horizontal	305	1.07
2457MHz	Pass	PK	4.914G	48.98	74.00	-25.02	3	Horizontal	305	1.07
2462MHz	Pass	AV	2.4628G	96.48	Inf	-Inf	3	Vertical	341	1.50
2462MHz	Pass	AV	2.4838G	46.58	54.00	-7.42	3	Vertical	341	1.50
2462MHz	Pass	PK	2.4628G	98.95	Inf	-Inf	3	Vertical	341	1.50
2462MHz	Pass	PK	2.4836G	58.96	74.00	-15.04	3	Vertical	341	1.50
2462MHz	Pass	AV	4.924G	51.63	54.00	-2.37	3	Vertical	316	2.41
2462MHz	Pass	PK	4.92392G	54.23	74.00	-19.77	3	Vertical	316	2.41
2462MHz	Pass	AV	4.924G	44.20	54.00	-9.80	3	Horizontal	307	1.06
2462MHz	Pass	PK	4.924G	49.60	74.00	-24.40	3	Horizontal	307	1.06
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	50.21	54.00	-3.79	3	Vertical	0	1.48
2412MHz	Pass	AV	2.4146G	100.41	Inf	-Inf	3	Vertical	0	1.48
2412MHz	Pass	PK	2.3898G	66.00	74.00	-8.00	3	Vertical	0	1.48
2412MHz	Pass	PK	2.4144G	109.76	Inf	-Inf	3	Vertical	0	1.48
2412MHz	Pass	AV	4.82368G	42.50	54.00	-11.50	3	Vertical	319	1.45
2412MHz	Pass	PK	4.82072G	55.10	74.00	-18.90	3	Vertical	319	1.45
2412MHz	Pass	AV	4.82376G	33.88	54.00	-20.12	3	Horizontal	119	1.08
2412MHz	Pass	PK	4.8252G	45.88	74.00	-28.12	3	Horizontal	119	1.08
2417MHz	Pass	AV	2.39G	49.66	54.00	-4.34	3	Vertical	360	1.50
2417MHz	Pass	AV	2.4196G	100.00	Inf	-Inf	3	Vertical	360	1.50
2417MHz	Pass	PK	2.39G	65.43	74.00	-8.57	3	Vertical	360	1.50
2417MHz	Pass	PK	2.4196G	109.15	Inf	-Inf	3	Vertical	360	1.50
2437MHz	Pass	AV	2.3898G	50.72	54.00	-3.28	3	Vertical	360	1.50
2437MHz	Pass	AV	2.4346G	103.34	Inf	-Inf	3	Vertical	360	1.50
2437MHz	Pass	AV	2.4835G	51.37	54.00	-2.63	3	Vertical	360	1.50
2437MHz	Pass	PK	2.3898G	65.77	74.00	-8.23	3	Vertical	360	1.50
2437MHz	Pass	PK	2.4338G	112.30	Inf	-Inf	3	Vertical	360	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	2.4842G	68.58	74.00	-5.42	3	Vertical	360	1.50
2437MHz	Pass	AV	4.8736G	44.24	54.00	-9.76	3	Vertical	316	2.02
2437MHz	Pass	PK	4.87464G	56.26	74.00	-17.74	3	Vertical	316	2.02
2437MHz	Pass	AV	4.87408G	34.44	54.00	-19.56	3	Horizontal	232	1.49
2437MHz	Pass	PK	4.86504G	46.55	74.00	-27.45	3	Horizontal	232	1.49
2457MHz	Pass	AV	2.4596G	99.13	Inf	-Inf	3	Vertical	356	1.65
2457MHz	Pass	AV	2.4844G	48.92	54.00	-5.08	3	Vertical	356	1.65
2457MHz	Pass	PK	2.4604G	108.37	Inf	-Inf	3	Vertical	356	1.65
2457MHz	Pass	PK	2.4874G	62.19	74.00	-11.81	3	Vertical	356	1.65
2462MHz	Pass	AV	2.4694G	99.52	Inf	-Inf	3	Vertical	339	1.50
2462MHz	Pass	AV	2.4835G	49.16	54.00	-4.84	3	Vertical	339	1.50
2462MHz	Pass	PK	2.4652G	108.64	Inf	-Inf	3	Vertical	339	1.50
2462MHz	Pass	PK	2.497G	61.43	74.00	-12.57	3	Vertical	339	1.50
2462MHz	Pass	AV	4.87264G	32.08	54.00	-21.92	3	Vertical	176	1.88
2462MHz	Pass	PK	4.86048G	44.80	74.00	-29.20	3	Vertical	176	1.88
2462MHz	Pass	AV	4.86952G	32.11	54.00	-21.89	3	Horizontal	262	1.42
2462MHz	Pass	PK	4.86728G	44.77	74.00	-29.23	3	Horizontal	262	1.42
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3896G	50.92	54.00	-3.08	3	Vertical	0	1.50
2412MHz	Pass	AV	2.4144G	99.37	Inf	-Inf	3	Vertical	0	1.50
2412MHz	Pass	PK	2.3834G	65.96	74.00	-8.04	3	Vertical	0	1.50
2412MHz	Pass	PK	2.4102G	111.11	Inf	-Inf	3	Vertical	0	1.50
2412MHz	Pass	AV	4.8252G	42.24	54.00	-11.76	3	Vertical	317	1.73
2412MHz	Pass	PK	4.83072G	54.85	74.00	-19.15	3	Vertical	317	1.73
2412MHz	Pass	AV	4.82532G	34.80	54.00	-19.20	3	Horizontal	329	1.33
2412MHz	Pass	PK	4.8216G	46.45	74.00	-27.55	3	Horizontal	329	1.33
2417MHz	Pass	AV	2.3896G	50.75	54.00	-3.25	3	Vertical	0	1.50
2417MHz	Pass	AV	2.4248G	99.82	Inf	-Inf	3	Vertical	0	1.50
2417MHz	Pass	PK	2.3884G	66.11	74.00	-7.89	3	Vertical	0	1.50
2417MHz	Pass	PK	2.424G	111.31	Inf	-Inf	3	Vertical	0	1.50
2437MHz	Pass	AV	2.3898G	49.71	54.00	-4.29	3	Vertical	360	1.50
2437MHz	Pass	AV	2.4346G	101.43	Inf	-Inf	3	Vertical	360	1.50
2437MHz	Pass	AV	2.4835G	50.88	54.00	-3.12	3	Vertical	360	1.50
2437MHz	Pass	PK	2.389G	66.13	74.00	-7.87	3	Vertical	360	1.50
2437MHz	Pass	PK	2.4342G	113.15	Inf	-Inf	3	Vertical	360	1.50
2437MHz	Pass	PK	2.4862G	64.02	74.00	-9.98	3	Vertical	360	1.50
2437MHz	Pass	AV	4.87532G	43.46	54.00	-10.54	3	Vertical	318	1.12
2437MHz	Pass	PK	4.8746G	55.40	74.00	-18.60	3	Vertical	318	1.12
2437MHz	Pass	AV	4.87288G	36.01	54.00	-17.99	3	Horizontal	12	1.50
2437MHz	Pass	PK	4.87208G	48.22	74.00	-25.78	3	Horizontal	12	1.50
2457MHz	Pass	AV	2.4648G	98.79	Inf	-Inf	3	Vertical	339	1.50
2457MHz	Pass	AV	2.4835G	49.30	54.00	-4.70	3	Vertical	339	1.50
2457MHz	Pass	PK	2.4638G	109.95	Inf	-Inf	3	Vertical	339	1.50
2457MHz	Pass	PK	2.4958G	62.49	74.00	-11.51	3	Vertical	339	1.50
2462MHz	Pass	AV	2.4696G	99.04	Inf	-Inf	3	Vertical	355	1.50
2462MHz	Pass	AV	2.4835G	49.77	54.00	-4.23	3	Vertical	355	1.50
2462MHz	Pass	PK	2.4696G	109.65	Inf	-Inf	3	Vertical	355	1.50
2462MHz	Pass	PK	2.4974G	62.43	74.00	-11.57	3	Vertical	355	1.50
2462MHz	Pass	AV	4.9232G	42.98	54.00	-11.02	3	Vertical	318	1.26
2462MHz	Pass	PK	4.92872G	56.41	74.00	-17.59	3	Vertical	318	1.26
2462MHz	Pass	AV	4.92296G	34.08	54.00	-19.92	3	Horizontal	187	1.03
2462MHz	Pass	PK	4.92928G	46.04	74.00	-27.96	3	Horizontal	187	1.03

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

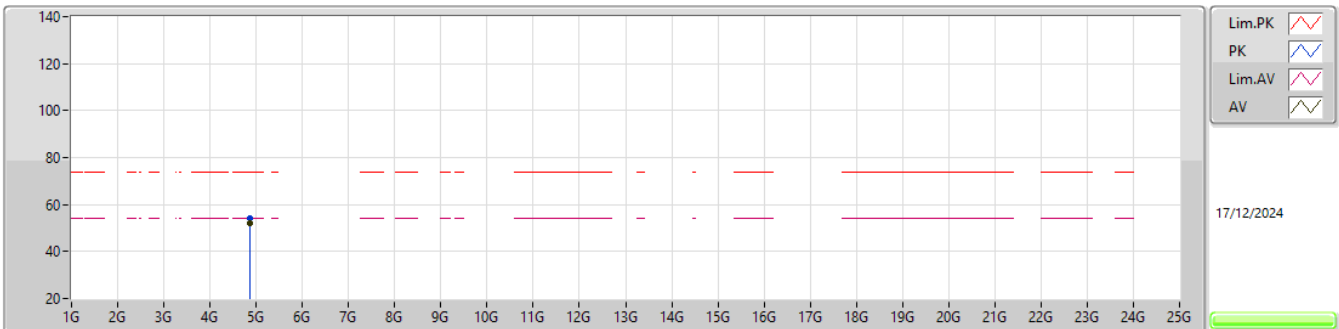
2437MHz_TX



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	45.74	54.00	-8.26	32.67	3	Vertical	358	1.50	13.07	27.40	5.27	-
AV	2.4362G	98.66	Inf	-Inf	33.05	3	Vertical	358	1.50	65.61	27.70	5.35	-
AV	2.4854G	46.58	54.00	-7.42	33.34	3	Vertical	358	1.50	13.24	27.90	5.44	-
PK	2.3798G	57.81	74.00	-16.19	32.56	3	Vertical	358	1.50	25.25	27.30	5.26	-
PK	2.4362G	101.10	Inf	-Inf	33.05	3	Vertical	358	1.50	68.05	27.70	5.35	-
PK	2.4978G	58.27	74.00	-15.73	33.36	3	Vertical	358	1.50	24.91	27.90	5.46	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

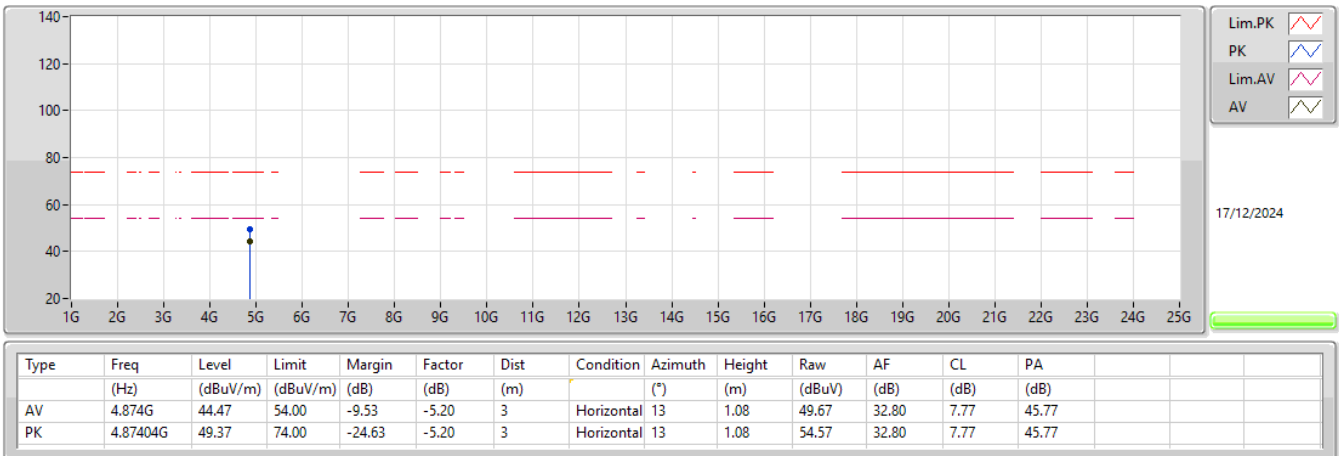
2437MHz_TX



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	4.874G	51.91	54.00	-2.09	-5.20	3	Vertical	318	1.43	57.11	32.80	7.77	45.77
PK	4.87396G	54.32	74.00	-19.68	-5.20	3	Vertical	318	1.43	59.52	32.80	7.77	45.77

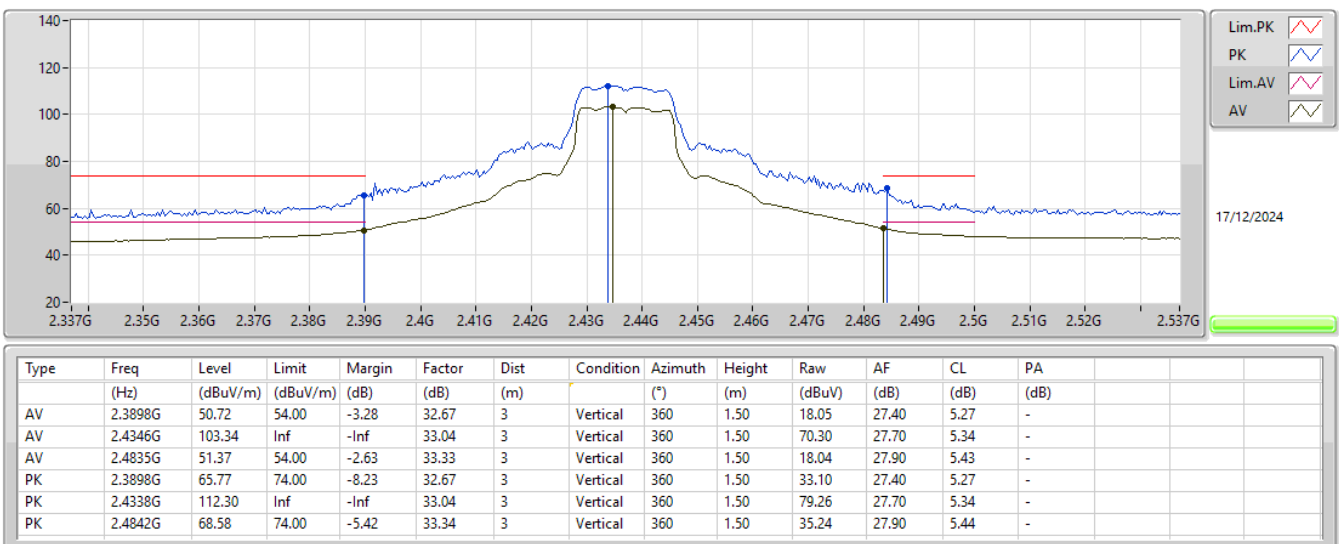
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



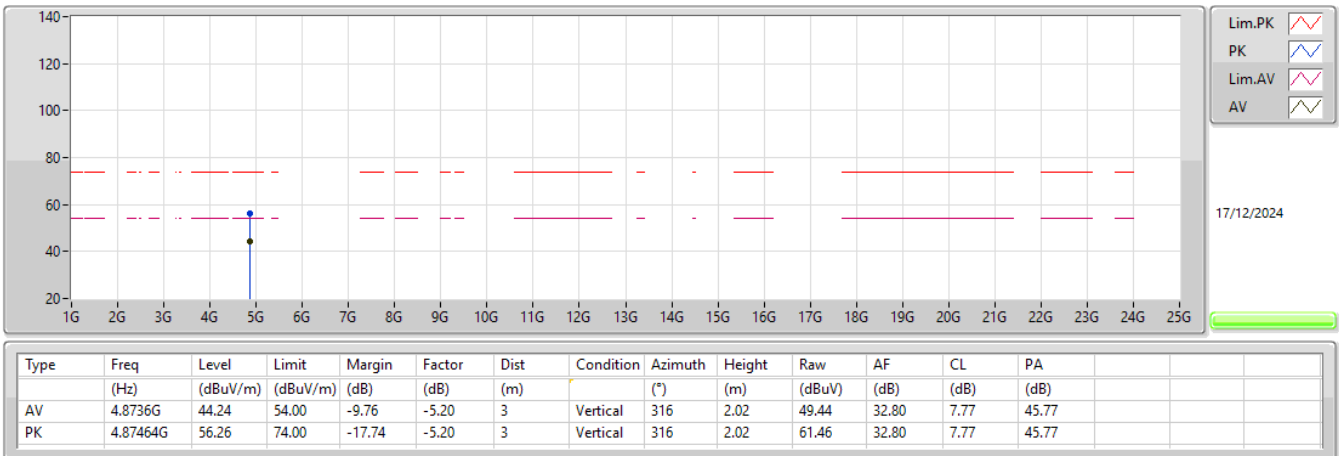
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



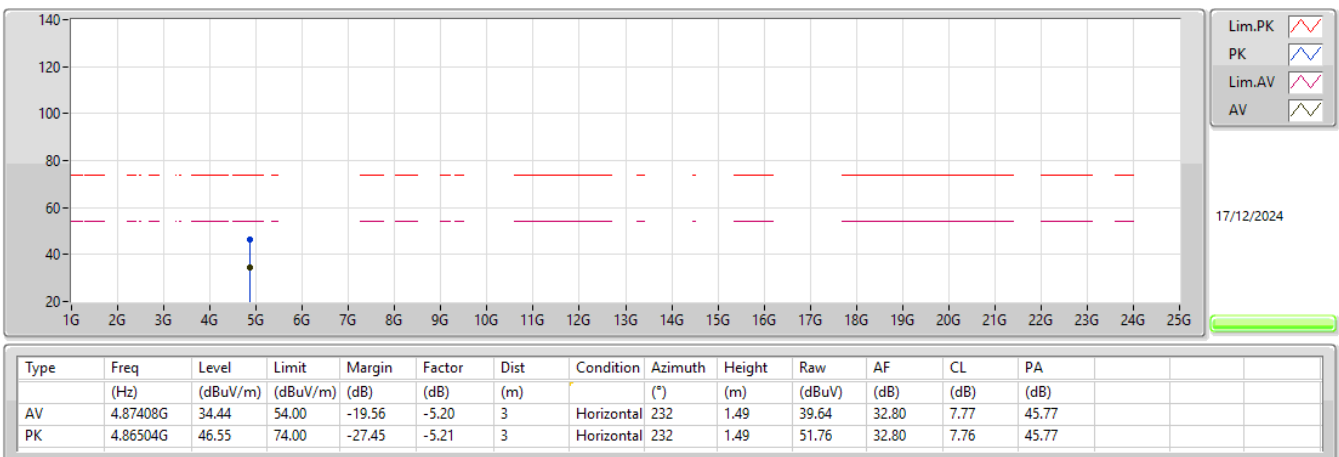
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



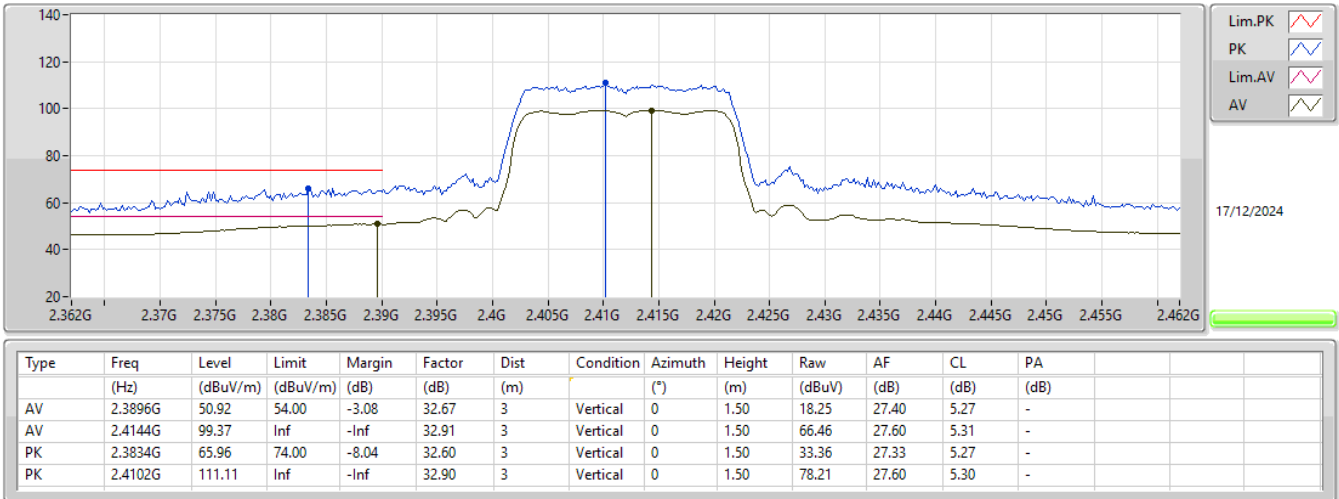
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



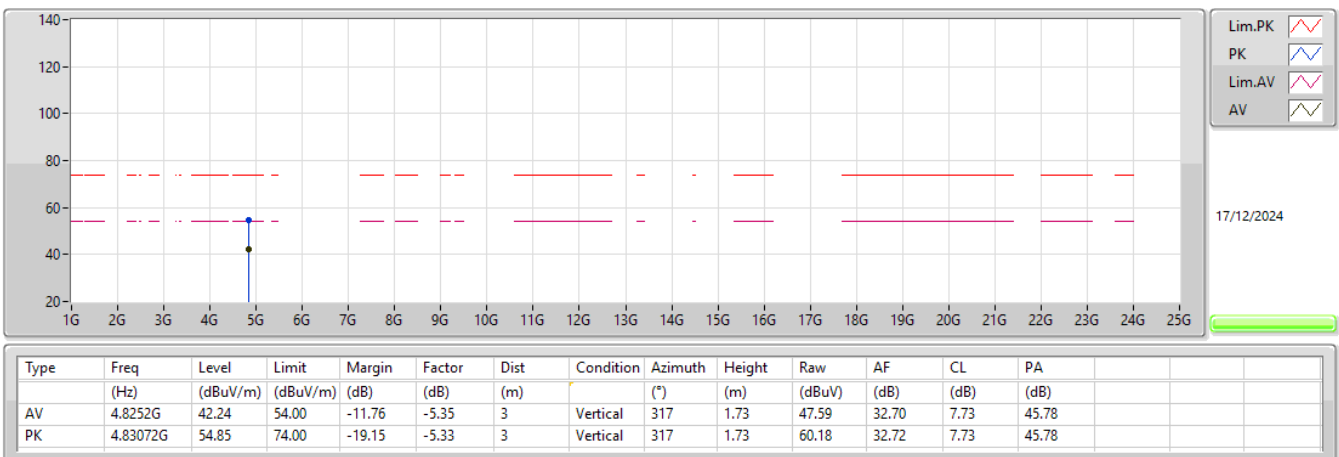
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



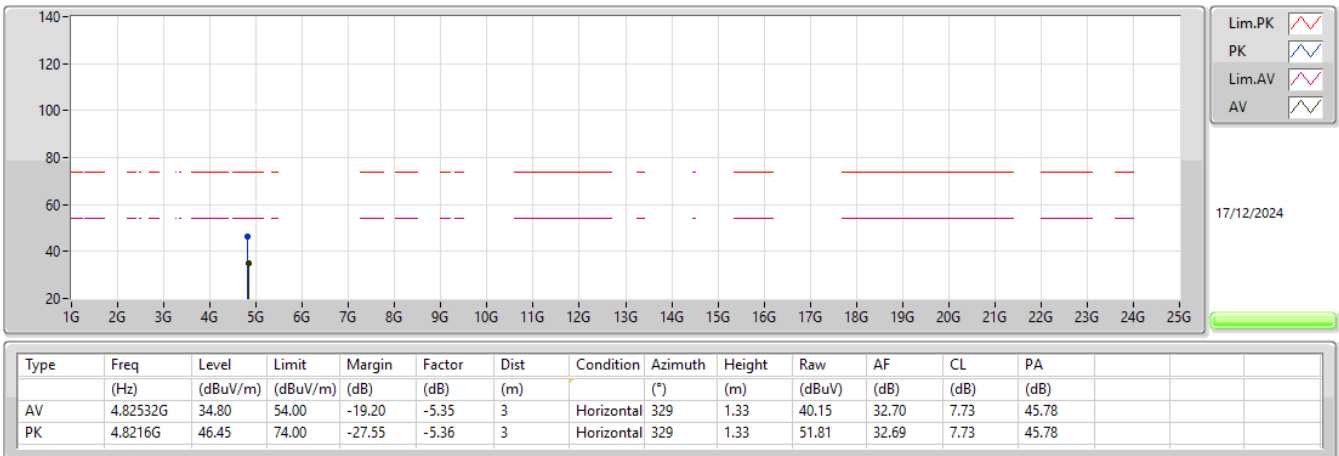
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX





Summary

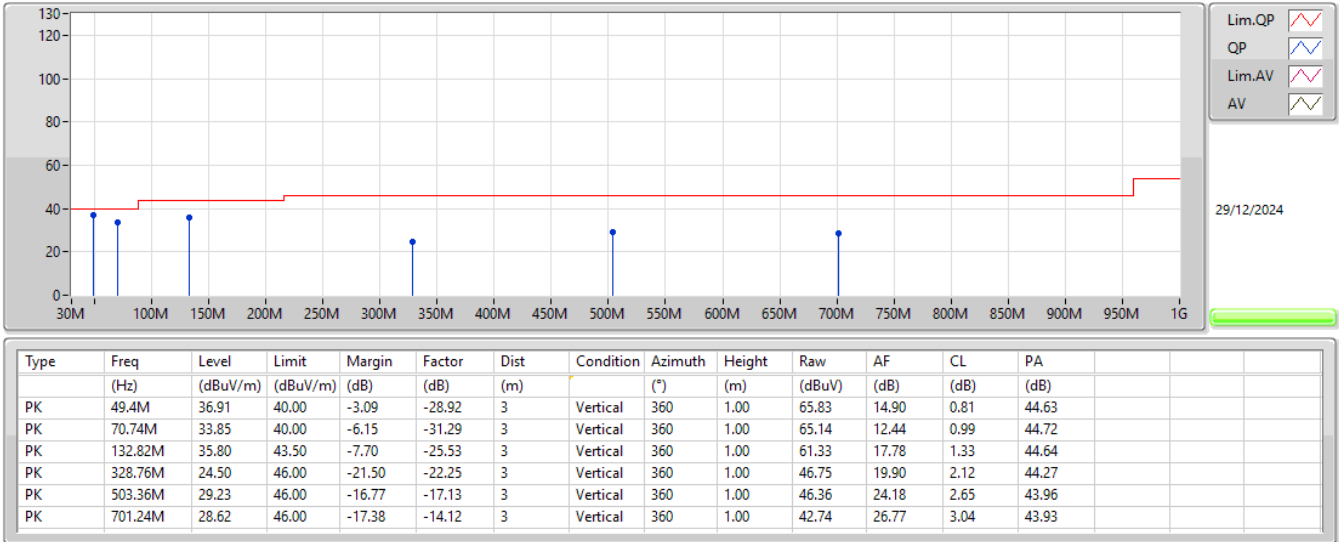
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	PK	49.4M	36.91	40.00	-3.09	3	Vertical	360	1.00

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)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_Fixture	Pass	PK	49.4M	36.91	40.00	-3.09	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	70.74M	33.85	40.00	-6.15	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	132.82M	35.80	43.50	-7.70	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	328.76M	24.50	46.00	-21.50	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	503.36M	29.23	46.00	-16.77	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	701.24M	28.62	46.00	-17.38	3	Vertical	360	1.00
2437MHz_Fixture	Pass	PK	78.5M	25.29	40.00	-14.71	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	111.48M	34.75	43.50	-8.75	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	216M	32.05	46.00	-13.95	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	276.38M	29.28	46.00	-16.72	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	503.36M	30.01	46.00	-15.99	3	Horizontal	0	1.00
2437MHz_Fixture	Pass	PK	875.84M	29.14	46.00	-16.86	3	Horizontal	0	1.00

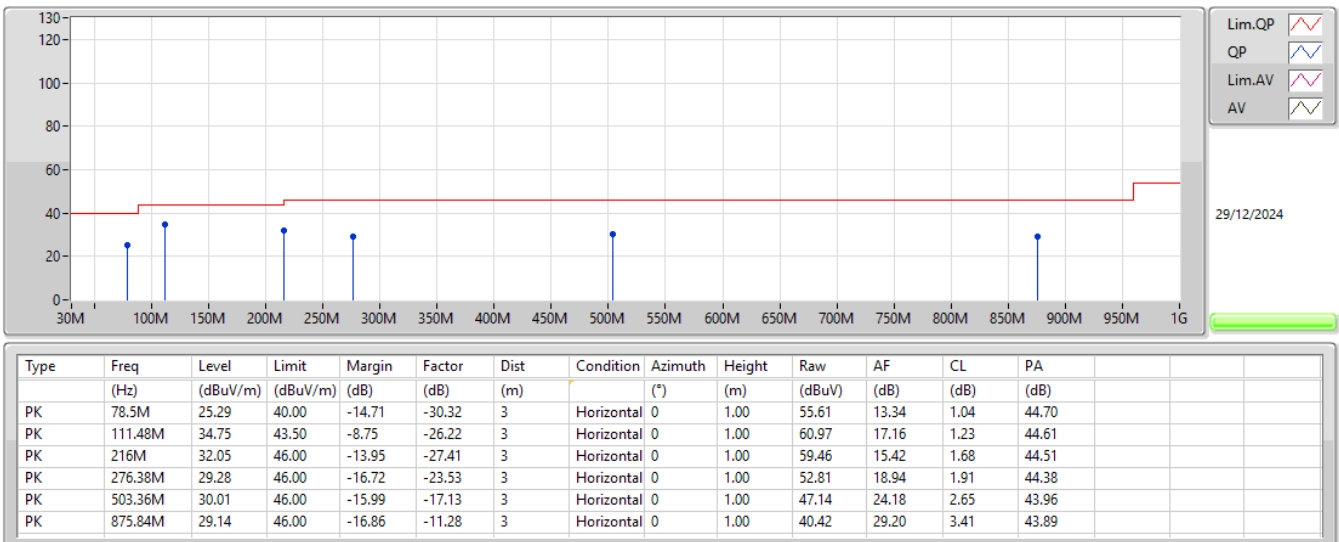
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Fixture



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_Fixture



**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)_1TX	Pass	AV	4.914G	51.83	54.00	-2.17	3	Vertical	351	1.01
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	51.69	54.00	-2.31	3	Vertical	0	1.50
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	51.92	54.00	-2.08	3	Vertical	131	1.50

Result

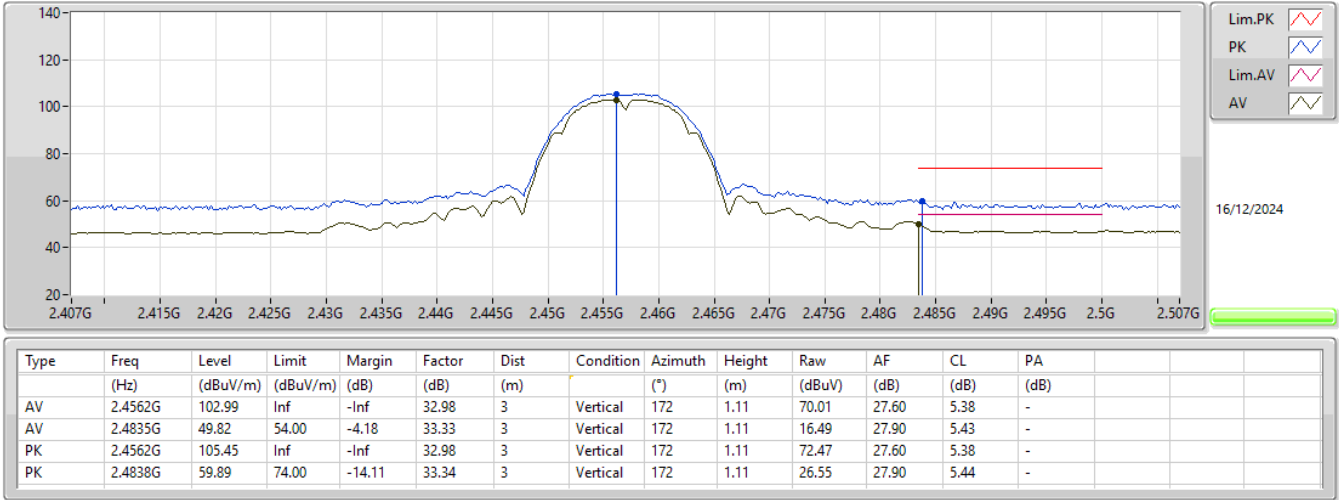
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	51.61	54.00	-2.39	3	Vertical	6	1.50
2412MHz	Pass	AV	2.4112G	104.11	Inf	-Inf	3	Vertical	6	1.50
2412MHz	Pass	PK	2.3874G	59.81	74.00	-14.19	3	Vertical	6	1.50
2412MHz	Pass	PK	2.411G	106.54	Inf	-Inf	3	Vertical	6	1.50
2412MHz	Pass	AV	4.824G	48.98	54.00	-5.02	3	Vertical	38	1.53
2412MHz	Pass	PK	4.82397G	52.06	74.00	-21.94	3	Vertical	38	1.53
2412MHz	Pass	AV	4.824G	49.45	54.00	-4.55	3	Horizontal	351	1.10
2412MHz	Pass	PK	4.8239G	52.78	74.00	-21.22	3	Horizontal	351	1.10
2417MHz	Pass	AV	2.39G	48.11	54.00	-5.89	3	Vertical	10	1.60
2417MHz	Pass	AV	2.4178G	103.30	Inf	-Inf	3	Vertical	10	1.60
2417MHz	Pass	PK	2.39G	58.50	74.00	-15.50	3	Vertical	10	1.60
2417MHz	Pass	PK	2.416G	105.72	Inf	-Inf	3	Vertical	10	1.60
2417MHz	Pass	AV	4.834G	49.94	54.00	-4.06	3	Vertical	37	1.50
2417MHz	Pass	AV	7.25018G	46.19	54.00	-7.81	3	Vertical	202	1.63
2417MHz	Pass	PK	4.83394G	52.76	74.00	-21.24	3	Vertical	37	1.50
2417MHz	Pass	PK	7.25146G	54.71	74.00	-19.29	3	Vertical	202	1.63
2417MHz	Pass	AV	4.834G	50.28	54.00	-3.72	3	Horizontal	351	1.04
2417MHz	Pass	AV	7.25022G	51.53	54.00	-2.47	3	Horizontal	325	1.01
2417MHz	Pass	PK	4.83406G	53.52	74.00	-20.48	3	Horizontal	351	1.04
2417MHz	Pass	PK	7.25202G	57.18	74.00	-16.82	3	Horizontal	325	1.01
2437MHz	Pass	AV	2.3898G	46.01	54.00	-7.99	3	Vertical	8	1.31
2437MHz	Pass	AV	2.4362G	103.86	Inf	-Inf	3	Vertical	8	1.31
2437MHz	Pass	AV	2.4838G	46.72	54.00	-7.28	3	Vertical	8	1.31
2437MHz	Pass	PK	2.3718G	58.28	74.00	-15.72	3	Vertical	8	1.31
2437MHz	Pass	PK	2.4362G	106.32	Inf	-Inf	3	Vertical	8	1.31
2437MHz	Pass	PK	2.4934G	58.38	74.00	-15.62	3	Vertical	8	1.31
2437MHz	Pass	AV	4.874G	51.35	54.00	-2.65	3	Vertical	38	2.61
2437MHz	Pass	AV	7.31179G	45.02	54.00	-8.98	3	Vertical	213	1.50
2437MHz	Pass	PK	4.87396G	53.91	74.00	-20.09	3	Vertical	38	2.61
2437MHz	Pass	PK	7.31021G	53.28	74.00	-20.72	3	Vertical	213	1.50
2437MHz	Pass	AV	4.874G	50.30	54.00	-3.70	3	Horizontal	337	3.00
2437MHz	Pass	AV	7.31176G	49.26	54.00	-4.74	3	Horizontal	324	1.00
2437MHz	Pass	PK	4.874G	53.26	74.00	-20.74	3	Horizontal	337	3.00
2437MHz	Pass	PK	7.31107G	55.64	74.00	-18.36	3	Horizontal	324	1.00
2457MHz	Pass	AV	2.4562G	102.99	Inf	-Inf	3	Vertical	172	1.11
2457MHz	Pass	AV	2.4835G	49.82	54.00	-4.18	3	Vertical	172	1.11
2457MHz	Pass	PK	2.4562G	105.45	Inf	-Inf	3	Vertical	172	1.11
2457MHz	Pass	PK	2.4838G	59.89	74.00	-14.11	3	Vertical	172	1.11
2457MHz	Pass	AV	4.914G	51.83	54.00	-2.17	3	Vertical	351	1.01
2457MHz	Pass	AV	7.37178G	45.51	54.00	-8.49	3	Vertical	221	2.52
2457MHz	Pass	PK	4.91394G	54.30	74.00	-19.70	3	Vertical	351	1.01
2457MHz	Pass	PK	7.37178G	53.52	74.00	-20.48	3	Vertical	221	2.52
2457MHz	Pass	AV	4.914G	50.80	54.00	-3.20	3	Horizontal	32	1.01
2457MHz	Pass	AV	7.37016G	47.00	54.00	-7.00	3	Horizontal	323	1.08
2457MHz	Pass	PK	4.914G	53.90	74.00	-20.10	3	Horizontal	32	1.01
2457MHz	Pass	PK	7.37136G	54.39	74.00	-19.61	3	Horizontal	323	1.08
2462MHz	Pass	AV	2.4628G	103.68	Inf	-Inf	3	Vertical	4	1.50
2462MHz	Pass	AV	2.4835G	50.64	54.00	-3.36	3	Vertical	4	1.50
2462MHz	Pass	PK	2.4628G	106.14	Inf	-Inf	3	Vertical	4	1.50
2462MHz	Pass	PK	2.4876G	59.67	74.00	-14.33	3	Vertical	4	1.50
2462MHz	Pass	AV	4.924G	51.78	54.00	-2.22	3	Vertical	66	1.00
2462MHz	Pass	AV	7.38517G	46.60	54.00	-7.40	3	Vertical	221	2.53
2462MHz	Pass	PK	4.92393G	54.36	74.00	-19.64	3	Vertical	66	1.00
2462MHz	Pass	PK	7.38485G	54.51	74.00	-19.49	3	Vertical	221	2.53
2462MHz	Pass	AV	4.924G	51.38	54.00	-2.62	3	Horizontal	31	1.00
2462MHz	Pass	AV	7.38524G	47.64	54.00	-6.36	3	Horizontal	323	1.03
2462MHz	Pass	PK	4.92393G	53.95	74.00	-20.05	3	Horizontal	31	1.00
2462MHz	Pass	PK	7.38643G	54.54	74.00	-19.46	3	Horizontal	323	1.03
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.66	54.00	-2.34	3	Vertical	172	1.19

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2412MHz	Pass	AV	2.4146G	97.04	Inf	-Inf	3	Vertical	172	1.19
2412MHz	Pass	PK	2.3898G	67.41	74.00	-6.59	3	Vertical	172	1.19
2412MHz	Pass	PK	2.4086G	105.99	Inf	-Inf	3	Vertical	172	1.19
2412MHz	Pass	AV	4.82406G	33.69	54.00	-20.31	3	Vertical	38	2.91
2412MHz	Pass	PK	4.82592G	46.26	74.00	-27.74	3	Vertical	38	2.91
2412MHz	Pass	AV	4.82406G	33.54	54.00	-20.46	3	Horizontal	350	1.13
2412MHz	Pass	PK	4.82202G	46.43	74.00	-27.57	3	Horizontal	350	1.13
2417MHz	Pass	AV	2.3898G	51.64	54.00	-2.36	3	Vertical	132	1.73
2417MHz	Pass	AV	2.4144G	98.28	Inf	-Inf	3	Vertical	132	1.73
2417MHz	Pass	PK	2.3878G	67.02	74.00	-6.98	3	Vertical	132	1.73
2417MHz	Pass	PK	2.4138G	107.55	Inf	-Inf	3	Vertical	132	1.73
2437MHz	Pass	AV	2.3898G	51.61	54.00	-2.39	3	Vertical	10	1.50
2437MHz	Pass	AV	2.4346G	101.51	Inf	-Inf	3	Vertical	10	1.50
2437MHz	Pass	AV	2.4835G	50.37	54.00	-3.63	3	Vertical	10	1.50
2437MHz	Pass	PK	2.3882G	67.40	74.00	-6.60	3	Vertical	10	1.50
2437MHz	Pass	PK	2.4342G	110.79	Inf	-Inf	3	Vertical	10	1.50
2437MHz	Pass	PK	2.4838G	65.42	74.00	-8.58	3	Vertical	10	1.50
2437MHz	Pass	AV	4.8737G	41.80	54.00	-12.20	3	Vertical	38	2.78
2437MHz	Pass	AV	7.31418G	43.19	54.00	-10.81	3	Vertical	126	1.50
2437MHz	Pass	PK	4.8746G	54.29	74.00	-19.71	3	Vertical	38	2.78
2437MHz	Pass	PK	7.3101G	56.58	74.00	-17.42	3	Vertical	126	1.50
2437MHz	Pass	AV	4.8734G	39.77	54.00	-14.23	3	Horizontal	349	1.50
2437MHz	Pass	AV	7.3101G	46.87	54.00	-7.13	3	Horizontal	326	1.05
2437MHz	Pass	PK	4.87112G	52.63	74.00	-21.37	3	Horizontal	349	1.50
2437MHz	Pass	PK	7.30194G	60.25	74.00	-13.75	3	Horizontal	326	1.05
2457MHz	Pass	AV	2.4646G	99.65	Inf	-Inf	3	Vertical	4	1.50
2457MHz	Pass	AV	2.484G	48.91	54.00	-5.09	3	Vertical	4	1.50
2457MHz	Pass	PK	2.4604G	108.78	Inf	-Inf	3	Vertical	4	1.50
2457MHz	Pass	PK	2.4932G	60.98	74.00	-13.02	3	Vertical	4	1.50
2462MHz	Pass	AV	2.4648G	98.74	Inf	-Inf	3	Vertical	0	1.50
2462MHz	Pass	AV	2.4835G	51.69	54.00	-2.31	3	Vertical	0	1.50
2462MHz	Pass	PK	2.4646G	107.95	Inf	-Inf	3	Vertical	0	1.50
2462MHz	Pass	PK	2.4836G	66.17	74.00	-7.83	3	Vertical	0	1.50
2462MHz	Pass	AV	4.92382G	38.45	54.00	-15.55	3	Vertical	39	2.43
2462MHz	Pass	AV	7.38528G	41.16	54.00	-12.84	3	Vertical	219	2.51
2462MHz	Pass	PK	4.92346G	51.29	74.00	-22.71	3	Vertical	39	2.43
2462MHz	Pass	PK	7.38486G	55.13	74.00	-18.87	3	Vertical	219	2.51
2462MHz	Pass	AV	4.92364G	37.90	54.00	-16.10	3	Horizontal	30	1.03
2462MHz	Pass	AV	7.3854G	41.42	54.00	-12.58	3	Horizontal	319	1.05
2462MHz	Pass	PK	4.9228G	50.90	74.00	-23.10	3	Horizontal	30	1.03
2462MHz	Pass	PK	7.38732G	54.62	74.00	-19.38	3	Horizontal	319	1.05
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.92	54.00	-2.08	3	Vertical	131	1.50
2412MHz	Pass	AV	2.4144G	94.18	Inf	-Inf	3	Vertical	131	1.50
2412MHz	Pass	PK	2.3884G	66.89	74.00	-7.11	3	Vertical	131	1.50
2412MHz	Pass	PK	2.4094G	105.31	Inf	-Inf	3	Vertical	131	1.50
2412MHz	Pass	AV	4.82394G	32.94	54.00	-21.06	3	Vertical	40	1.13
2412MHz	Pass	PK	4.8126G	45.45	74.00	-28.55	3	Vertical	40	1.13
2412MHz	Pass	AV	4.824G	33.23	54.00	-20.77	3	Horizontal	344	2.67
2412MHz	Pass	PK	4.82154G	45.41	74.00	-28.59	3	Horizontal	344	2.67
2417MHz	Pass	AV	2.39G	51.86	54.00	-2.14	3	Vertical	171	1.18
2417MHz	Pass	AV	2.4144G	98.36	Inf	-Inf	3	Vertical	171	1.18
2417MHz	Pass	PK	2.3878G	66.33	74.00	-7.67	3	Vertical	171	1.18
2417MHz	Pass	PK	2.4148G	110.04	Inf	-Inf	3	Vertical	171	1.18
2437MHz	Pass	AV	2.3894G	48.92	54.00	-5.08	3	Vertical	8	1.07
2437MHz	Pass	AV	2.4394G	100.89	Inf	-Inf	3	Vertical	8	1.07
2437MHz	Pass	AV	2.4835G	49.03	54.00	-4.97	3	Vertical	8	1.07
2437MHz	Pass	PK	2.3858G	61.98	74.00	-12.02	3	Vertical	8	1.07
2437MHz	Pass	PK	2.4442G	111.96	Inf	-Inf	3	Vertical	8	1.07
2437MHz	Pass	PK	2.4878G	62.13	74.00	-11.87	3	Vertical	8	1.07
2437MHz	Pass	AV	4.87514G	39.44	54.00	-14.56	3	Vertical	39	2.61
2437MHz	Pass	AV	7.31004G	41.10	54.00	-12.90	3	Vertical	215	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	4.87454G	52.75	74.00	-21.25	3	Vertical	39	2.61
2437MHz	Pass	PK	7.30932G	54.39	74.00	-19.61	3	Vertical	215	1.50
2437MHz	Pass	AV	4.87508G	38.49	54.00	-15.51	3	Horizontal	343	2.76
2437MHz	Pass	AV	7.30986G	43.94	54.00	-10.06	3	Horizontal	323	1.17
2437MHz	Pass	PK	4.87064G	51.39	74.00	-22.61	3	Horizontal	343	2.76
2437MHz	Pass	PK	7.30836G	57.46	74.00	-16.54	3	Horizontal	323	1.17
2457MHz	Pass	AV	2.4646G	98.52	Inf	-Inf	3	Vertical	2	1.50
2457MHz	Pass	AV	2.4835G	50.64	54.00	-3.36	3	Vertical	2	1.50
2457MHz	Pass	PK	2.4506G	109.50	Inf	-Inf	3	Vertical	2	1.50
2457MHz	Pass	PK	2.4835G	64.96	74.00	-9.04	3	Vertical	2	1.50
2462MHz	Pass	AV	2.4646G	97.27	Inf	-Inf	3	Vertical	0	1.50
2462MHz	Pass	AV	2.4835G	51.43	54.00	-2.57	3	Vertical	0	1.50
2462MHz	Pass	PK	2.464G	108.85	Inf	-Inf	3	Vertical	0	1.50
2462MHz	Pass	PK	2.4868G	65.48	74.00	-8.52	3	Vertical	0	1.50
2462MHz	Pass	AV	4.92514G	37.25	54.00	-16.75	3	Vertical	124	2.20
2462MHz	Pass	AV	7.38468G	39.13	54.00	-14.87	3	Vertical	219	1.51
2462MHz	Pass	PK	4.93072G	50.11	74.00	-23.89	3	Vertical	124	2.20
2462MHz	Pass	PK	7.3887G	52.83	74.00	-21.17	3	Vertical	219	1.51
2462MHz	Pass	AV	4.9252G	36.41	54.00	-17.59	3	Horizontal	30	1.01
2462MHz	Pass	AV	7.38456G	39.47	54.00	-14.53	3	Horizontal	325	1.03
2462MHz	Pass	PK	4.91788G	49.90	74.00	-24.10	3	Horizontal	30	1.01
2462MHz	Pass	PK	7.38264G	52.45	74.00	-21.55	3	Horizontal	325	1.03

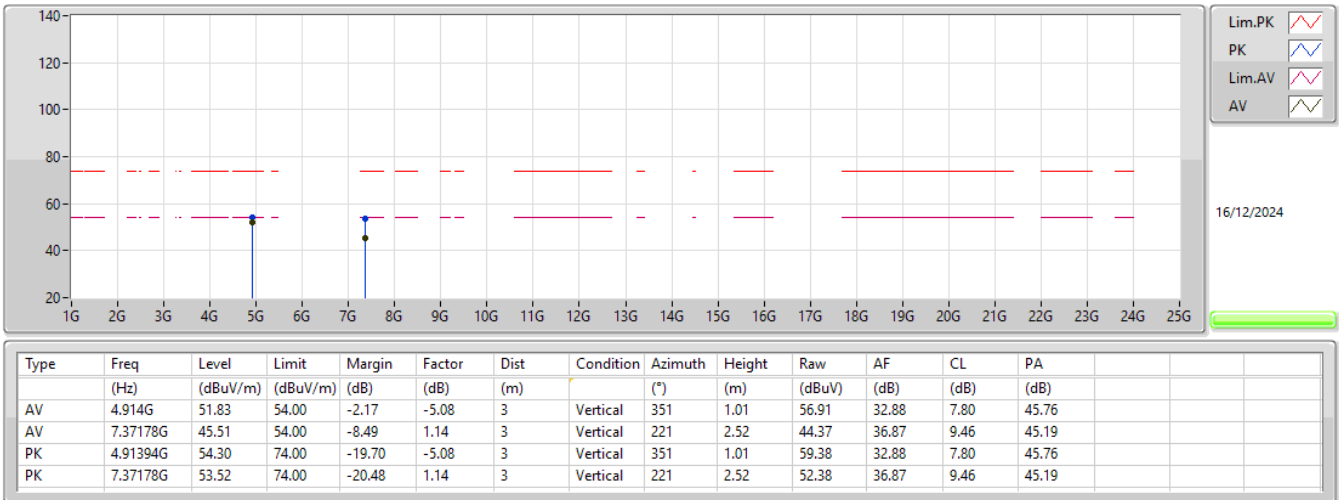
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



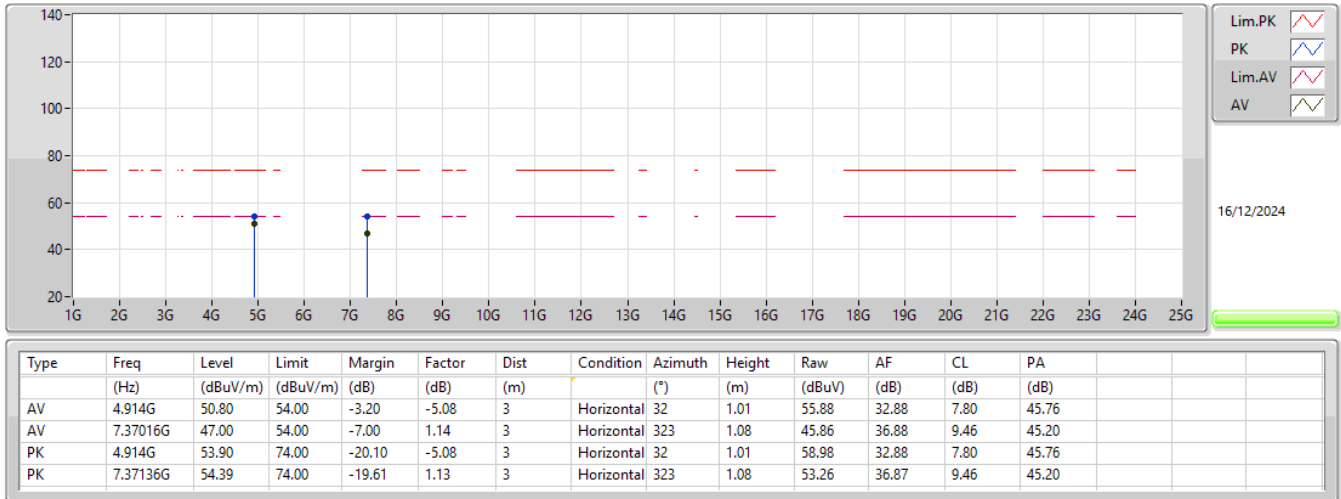
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



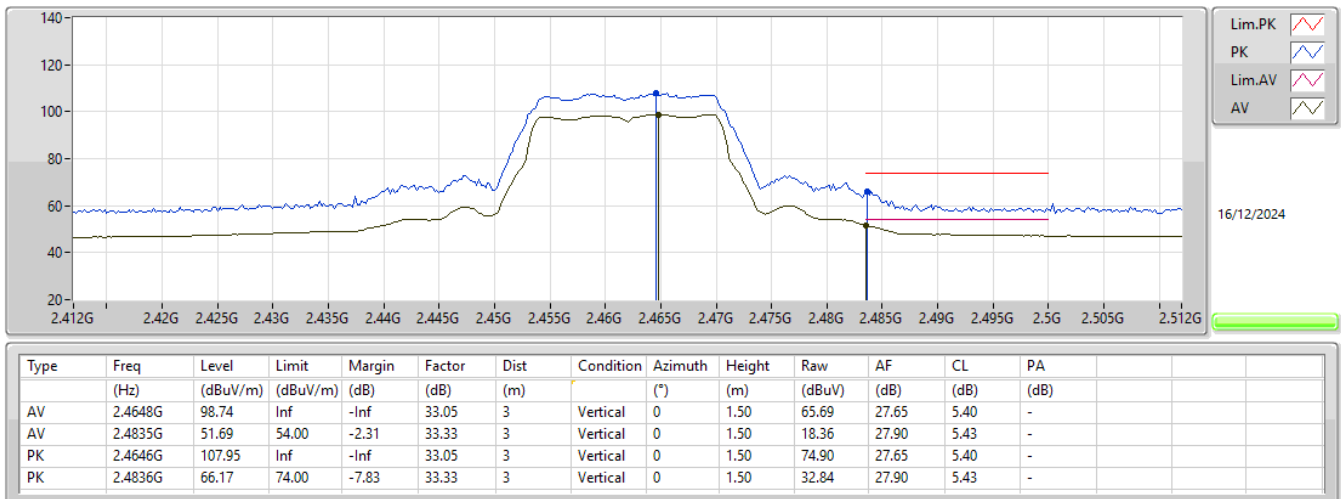
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2457MHz_TX



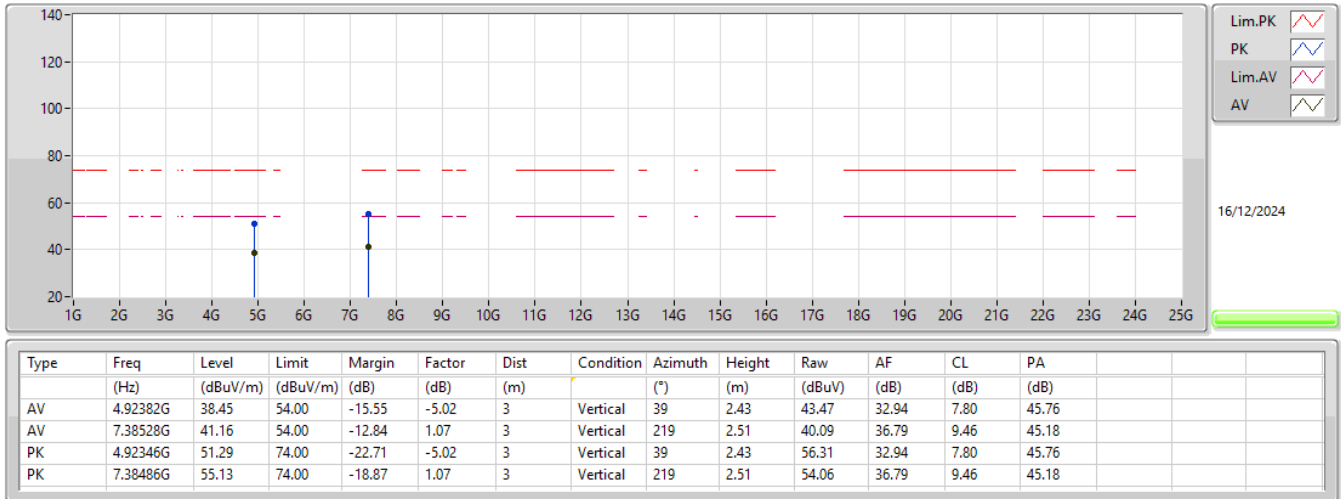
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



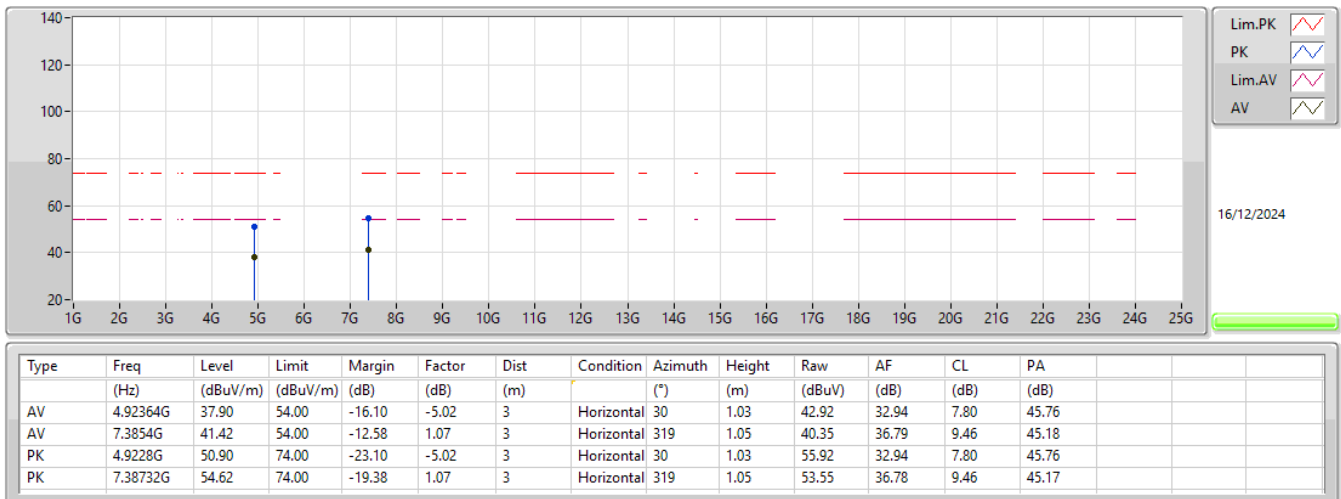
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



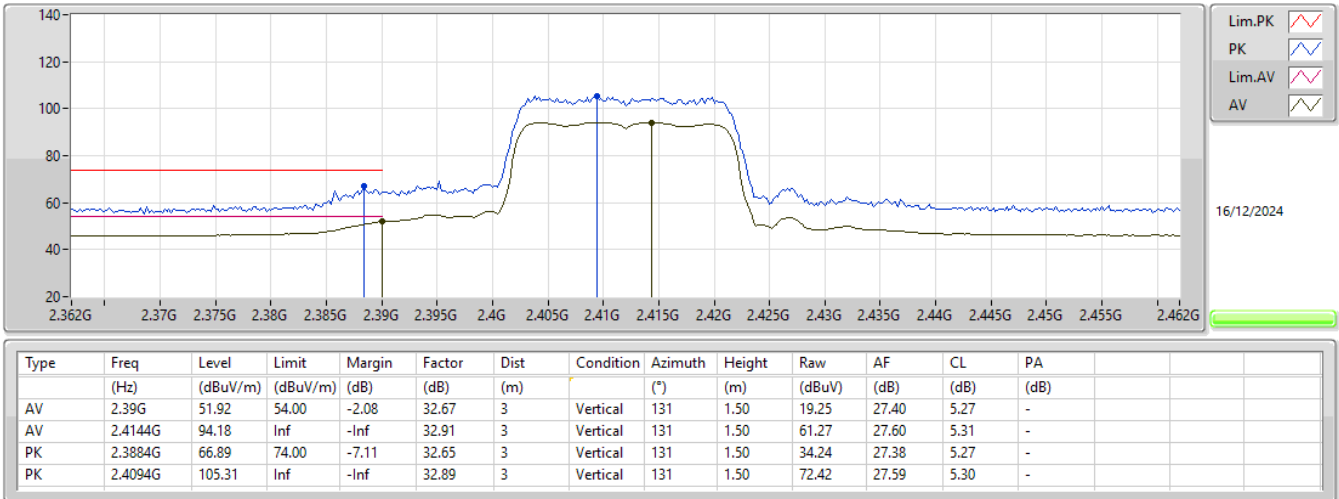
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



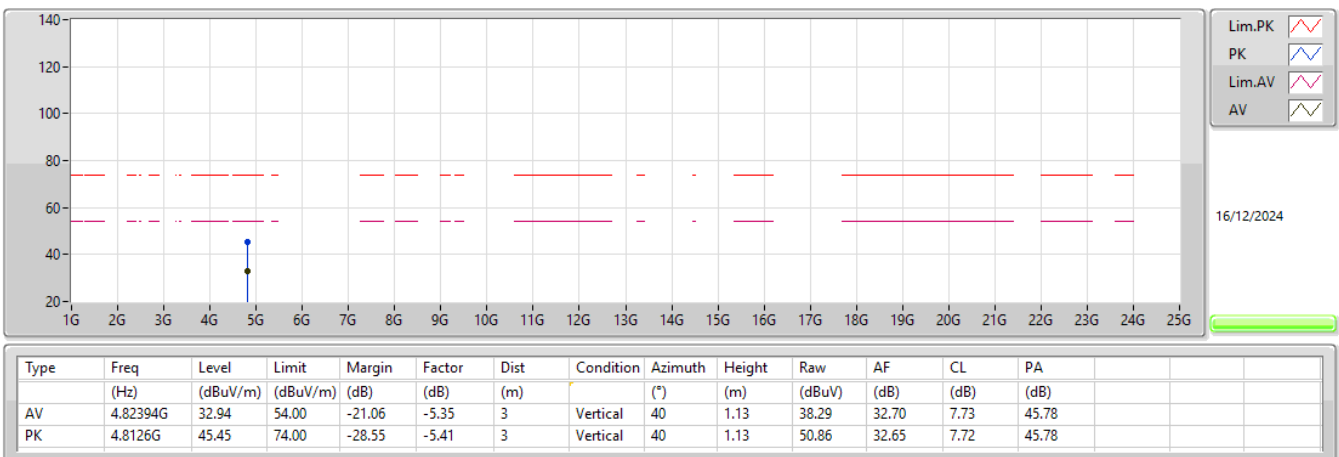
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



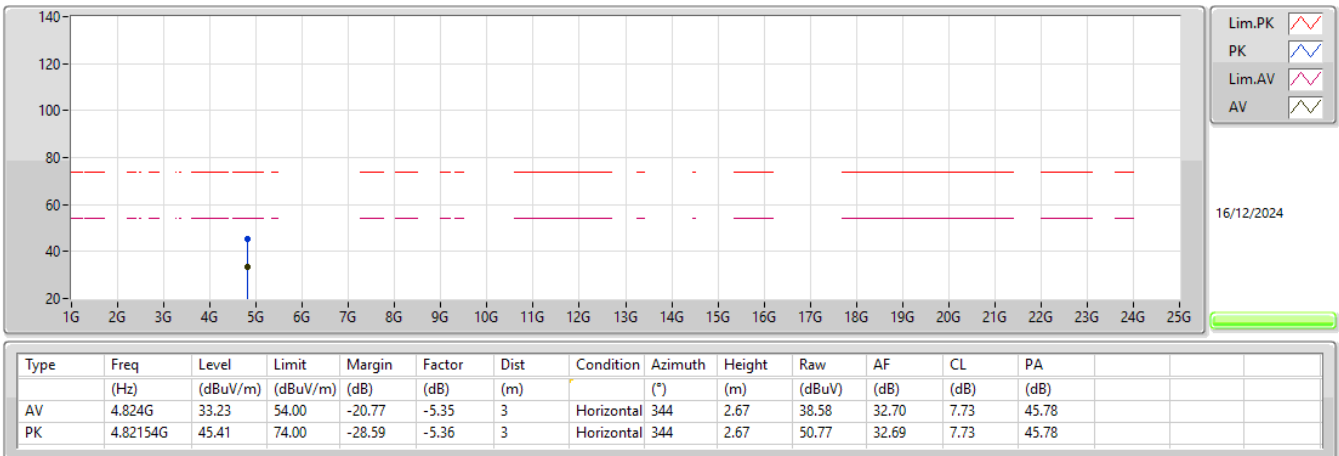
2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX





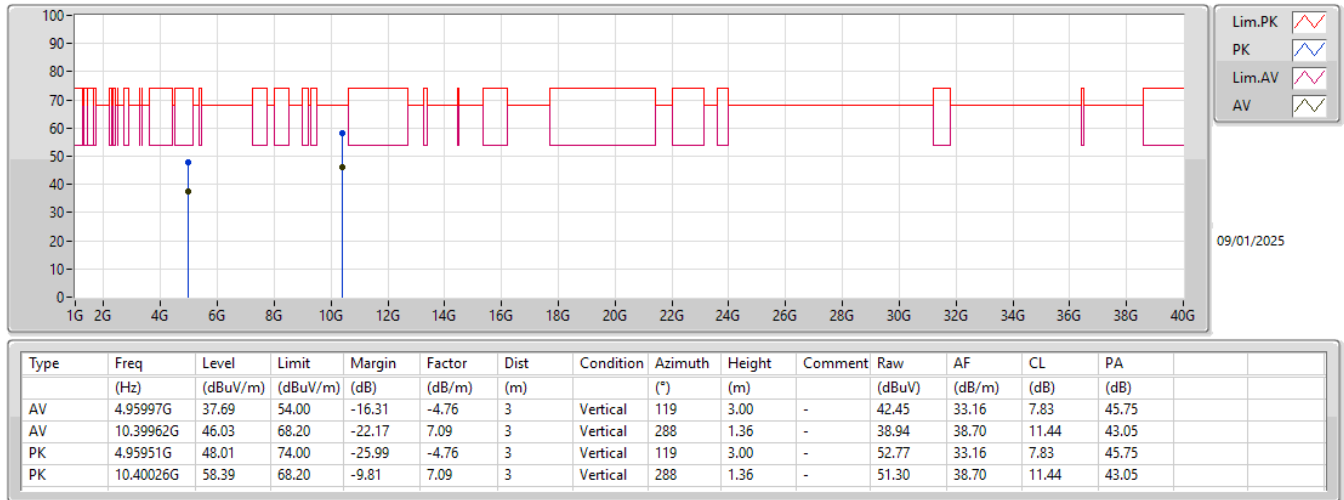
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	10.40366G	64.16	68.20	-4.04	Horizontal
Mode 2	Pass	PK	10.40016G	63.13	68.20	-5.07	Horizontal

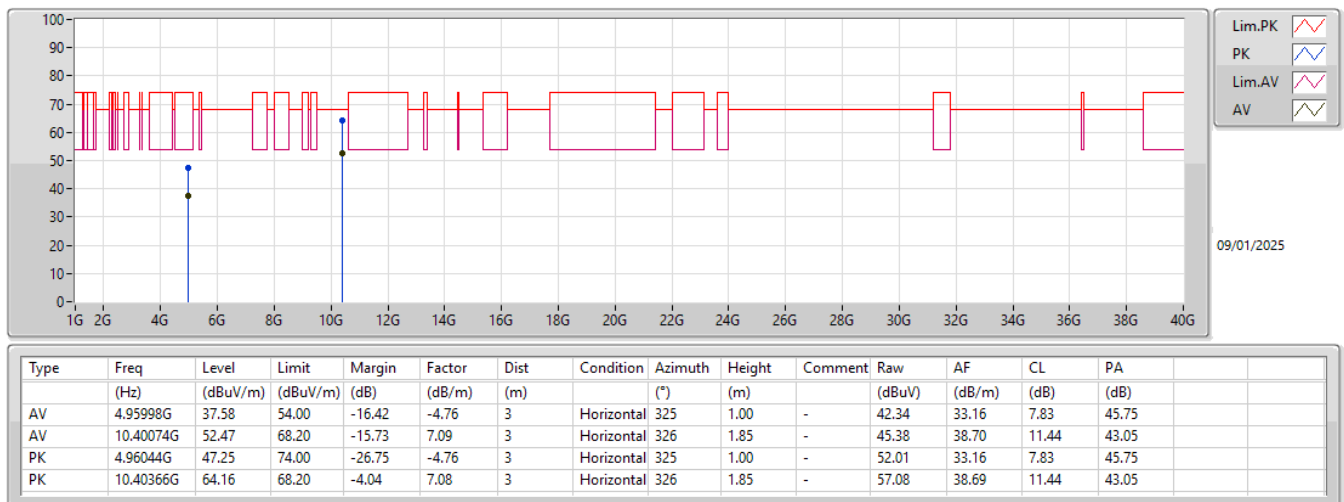
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.95997G	37.69	54.00	-16.31	3	Vertical	119	3.00	-
Mode 1	Pass	AV	10.39962G	46.03	68.20	-22.17	3	Vertical	288	1.36	-
Mode 1	Pass	PK	4.95951G	48.01	74.00	-25.99	3	Vertical	119	3.00	-
Mode 1	Pass	PK	10.40026G	58.39	68.20	-9.81	3	Vertical	288	1.36	-
Mode 1	Pass	AV	4.95998G	37.58	54.00	-16.42	3	Horizontal	325	1.00	-
Mode 1	Pass	AV	10.40074G	52.47	68.20	-15.73	3	Horizontal	326	1.85	-
Mode 1	Pass	PK	4.96044G	47.25	74.00	-26.75	3	Horizontal	325	1.00	-
Mode 1	Pass	PK	10.40366G	64.16	68.20	-4.04	3	Horizontal	326	1.85	-
Mode 2	Pass	AV	4.8809G	34.71	54.00	-19.29	3	Vertical	331	2.54	-
Mode 2	Pass	AV	10.39862G	46.32	68.20	-21.88	3	Vertical	155	1.58	-
Mode 2	Pass	PK	4.8808G	45.77	74.00	-28.23	3	Vertical	331	2.54	-
Mode 2	Pass	PK	10.40044G	58.53	68.20	-9.67	3	Vertical	155	1.58	-
Mode 2	Pass	AV	4.88084G	34.95	54.00	-19.05	3	Horizontal	276	1.11	-
Mode 2	Pass	AV	10.4004G	51.46	68.20	-16.74	3	Horizontal	311	1.01	-
Mode 2	Pass	PK	4.88104G	46.78	74.00	-27.22	3	Horizontal	276	1.11	-
Mode 2	Pass	PK	10.40016G	63.13	68.20	-5.07	3	Horizontal	311	1.01	-

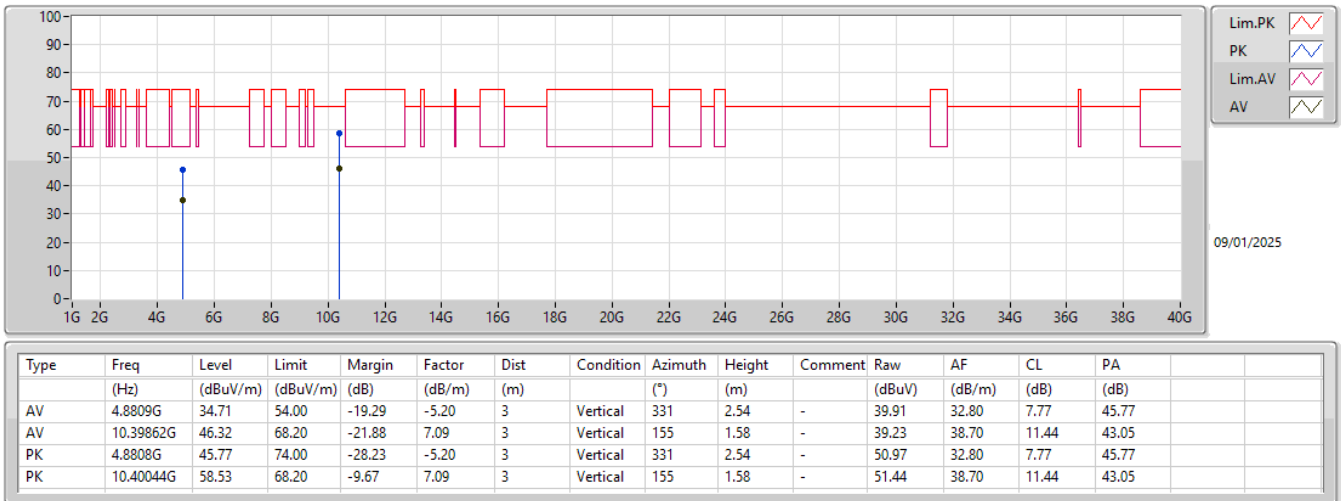
Radiated Emissions above 1GHz_Mode 1



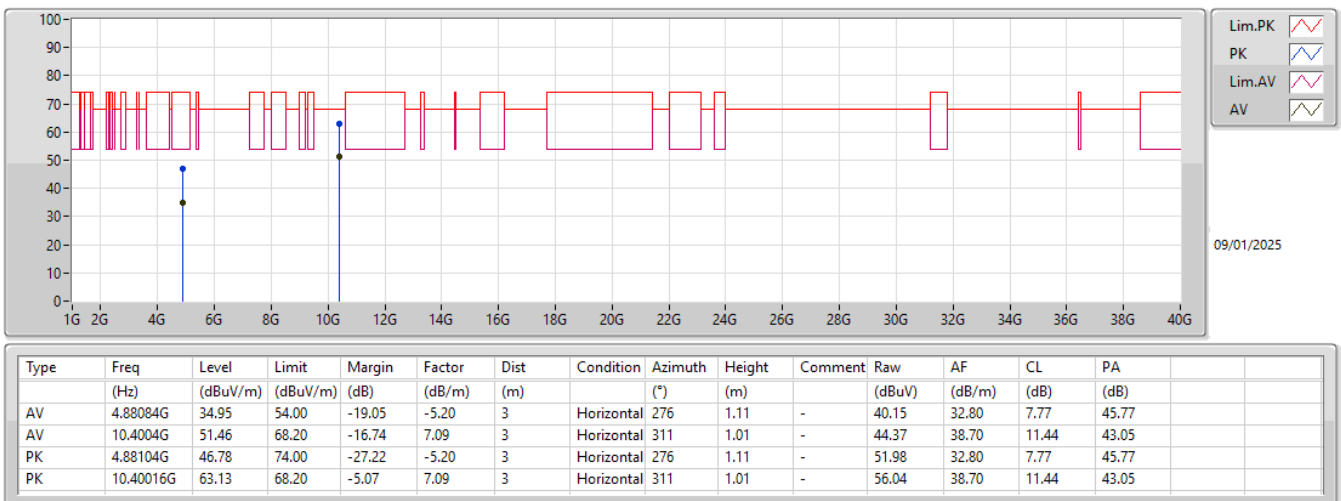
Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2





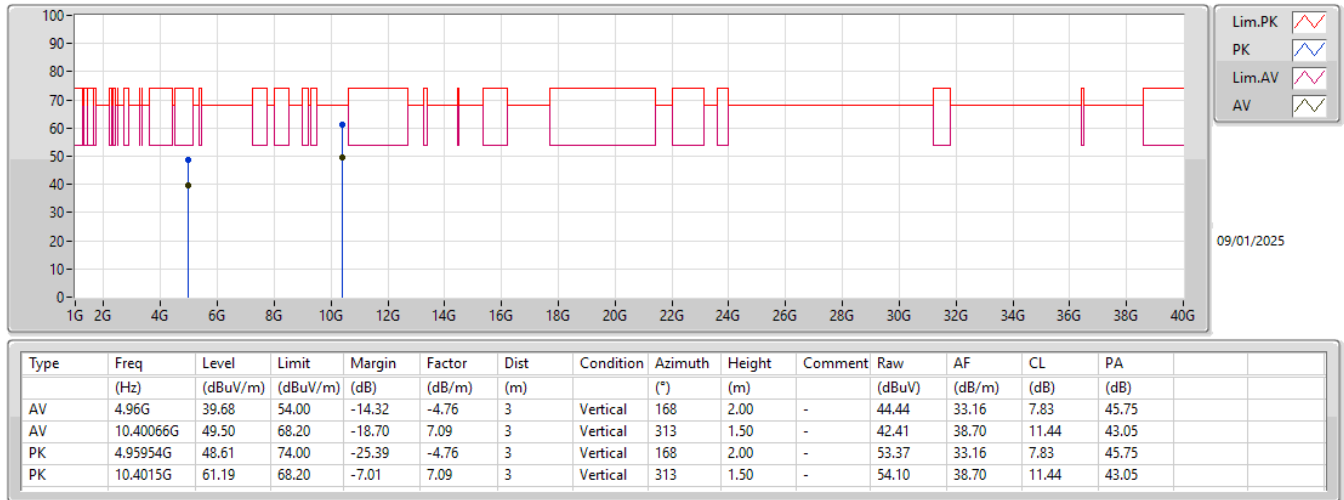
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	10.4015G	61.19	68.20	-7.01	Vertical
Mode 2	Pass	PK	10.3989G	62.65	68.20	-5.55	Vertical

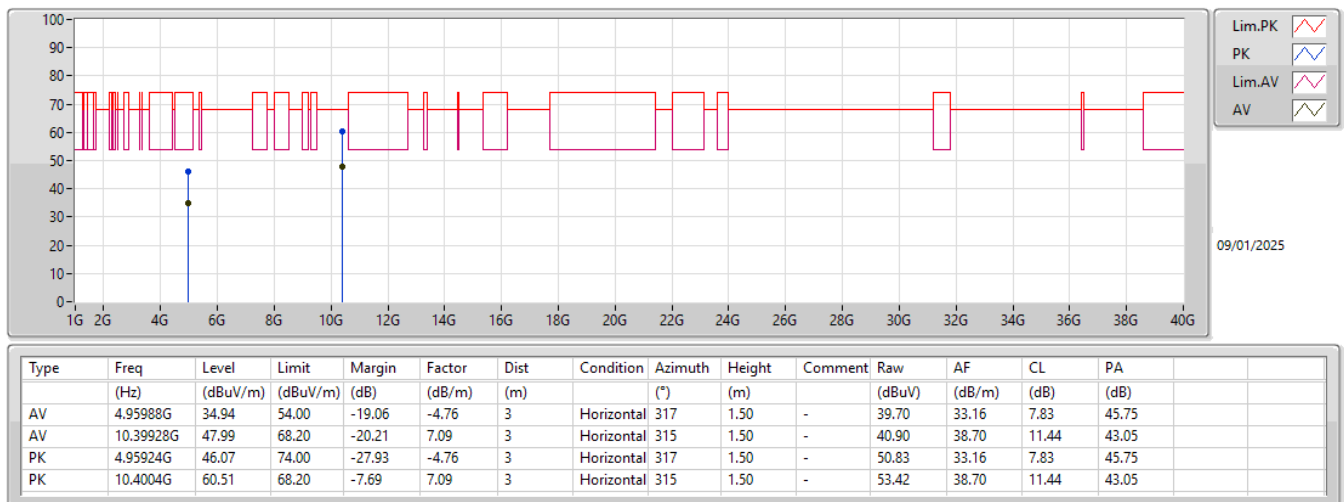
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.96G	39.68	54.00	-14.32	3	Vertical	168	2.00	-
Mode 1	Pass	AV	10.40066G	49.50	68.20	-18.70	3	Vertical	313	1.50	-
Mode 1	Pass	PK	4.95954G	48.61	74.00	-25.39	3	Vertical	168	2.00	-
Mode 1	Pass	PK	10.4015G	61.19	68.20	-7.01	3	Vertical	313	1.50	-
Mode 1	Pass	AV	4.95988G	34.94	54.00	-19.06	3	Horizontal	317	1.50	-
Mode 1	Pass	AV	10.39928G	47.99	68.20	-20.21	3	Horizontal	315	1.50	-
Mode 1	Pass	PK	4.95924G	46.07	74.00	-27.93	3	Horizontal	317	1.50	-
Mode 1	Pass	PK	10.4004G	60.51	68.20	-7.69	3	Horizontal	315	1.50	-
Mode 2	Pass	AV	4.87896G	36.76	54.00	-17.24	3	Vertical	142	1.50	-
Mode 2	Pass	AV	10.40038G	50.95	68.20	-17.25	3	Vertical	317	1.32	-
Mode 2	Pass	PK	4.8796G	46.94	74.00	-27.06	3	Vertical	142	1.50	-
Mode 2	Pass	PK	10.3989G	62.65	68.20	-5.55	3	Vertical	317	1.32	-
Mode 2	Pass	AV	4.87888G	35.21	54.00	-18.79	3	Horizontal	289	1.00	-
Mode 2	Pass	AV	10.40092G	48.14	68.20	-20.06	3	Horizontal	311	1.52	-
Mode 2	Pass	PK	4.87902G	46.29	74.00	-27.71	3	Horizontal	289	1.00	-
Mode 2	Pass	PK	10.40256G	60.04	68.20	-8.16	3	Horizontal	311	1.52	-

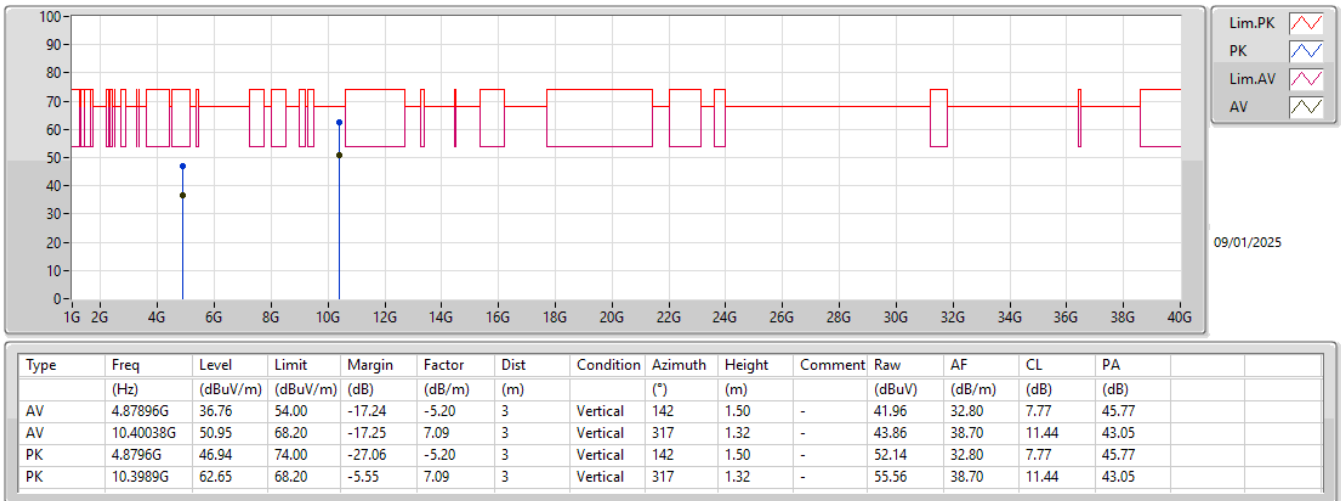
Radiated Emissions above 1GHz_Mode 1



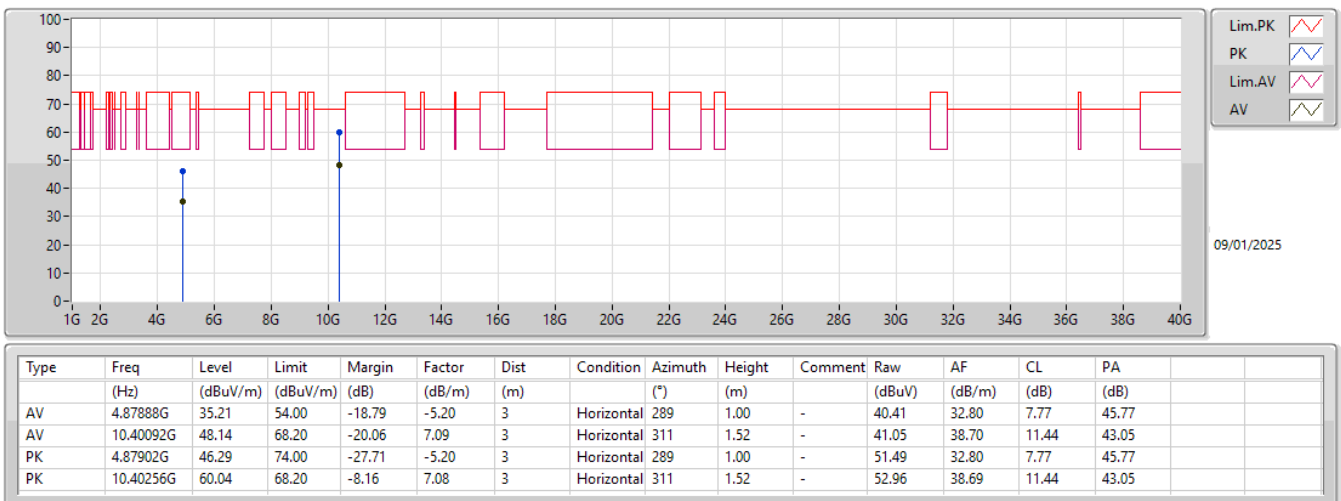
Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2





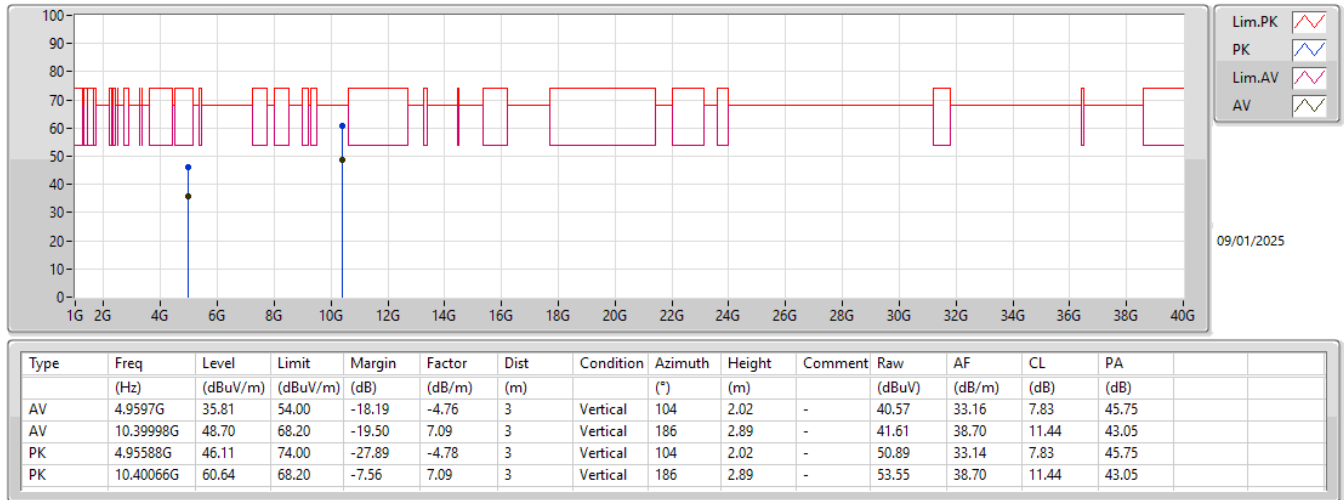
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	10.40522G	64.42	68.20	-3.78	Horizontal
Mode 2	Pass	PK	10.39676G	63.22	68.20	-4.98	Horizontal

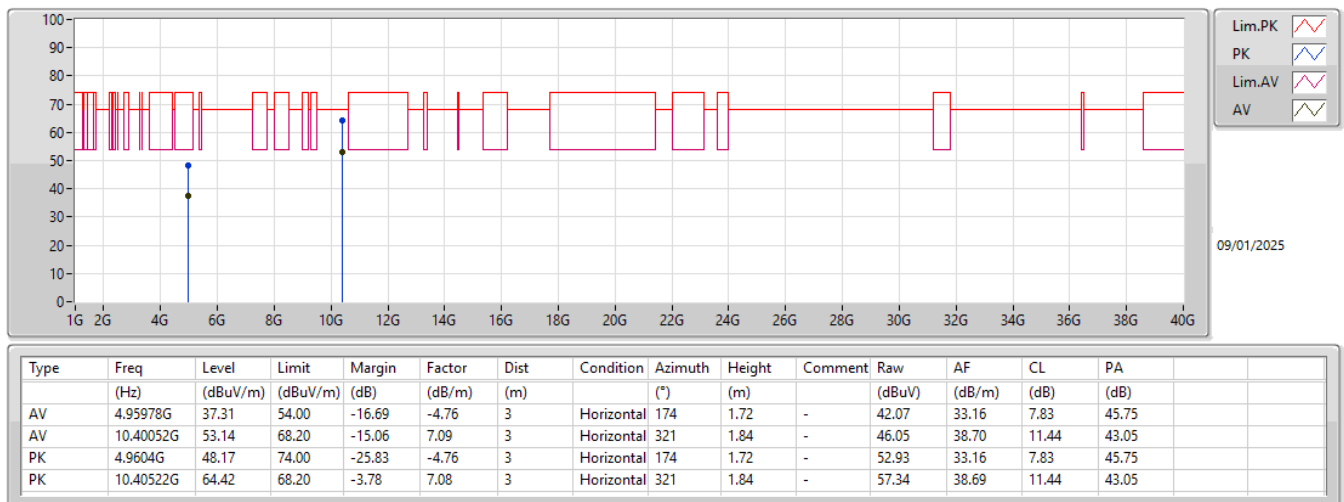
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	4.9597G	35.81	54.00	-18.19	3	Vertical	104	2.02	-
Mode 1	Pass	AV	10.39998G	48.70	68.20	-19.50	3	Vertical	186	2.89	-
Mode 1	Pass	PK	4.95588G	46.11	74.00	-27.89	3	Vertical	104	2.02	-
Mode 1	Pass	PK	10.40066G	60.64	68.20	-7.56	3	Vertical	186	2.89	-
Mode 1	Pass	AV	4.95978G	37.31	54.00	-16.69	3	Horizontal	174	1.72	-
Mode 1	Pass	AV	10.40052G	53.14	68.20	-15.06	3	Horizontal	321	1.84	-
Mode 1	Pass	PK	4.9604G	48.17	74.00	-25.83	3	Horizontal	174	1.72	-
Mode 1	Pass	PK	10.40522G	64.42	68.20	-3.78	3	Horizontal	321	1.84	-
Mode 2	Pass	AV	4.87906G	34.94	54.00	-19.06	3	Vertical	71	1.14	-
Mode 2	Pass	AV	10.3994G	50.27	68.20	-17.93	3	Vertical	191	1.46	-
Mode 2	Pass	PK	4.87902G	47.21	74.00	-26.79	3	Vertical	71	1.14	-
Mode 2	Pass	PK	10.3961G	62.39	68.20	-5.81	3	Vertical	191	1.46	-
Mode 2	Pass	AV	4.87912G	34.74	54.00	-19.26	3	Horizontal	17	1.50	-
Mode 2	Pass	AV	10.39956G	51.61	68.20	-16.59	3	Horizontal	324	1.50	-
Mode 2	Pass	PK	4.88132G	45.56	74.00	-28.44	3	Horizontal	17	1.50	-
Mode 2	Pass	PK	10.39676G	63.22	68.20	-4.98	3	Horizontal	324	1.50	-

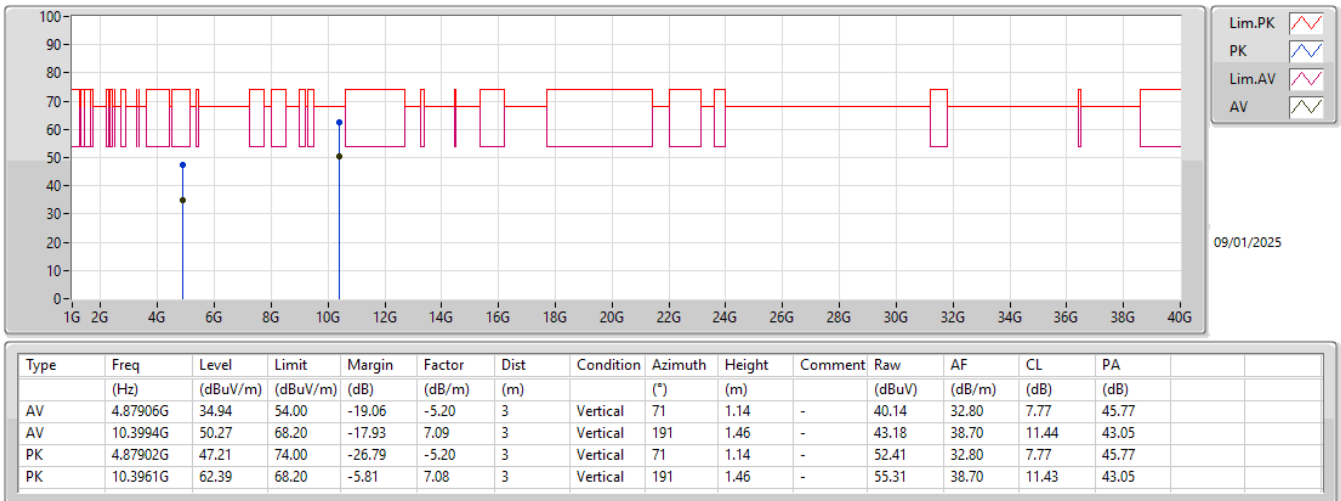
Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2

