

FCC Radio Test Report

FCC ID : NDD9578222404
Equipment : 2T2R 802.11be Wi-Fi 7 BE6500 USB NANO Dongle
Brand Name : Edimax
Model Name : EW-7822UN7
Applicant : Edimax Technology Co., Ltd.
No.278 , Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan
Manufacturer : Edimax Technology Co., Ltd.
No.278 , Xinhua 1st Rd., Neihu Dist., Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 23, 2024, and testing was started from Oct. 28, 2024 and completed on Nov. 13, 2024. 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

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR4O2301AC	01	Initial issue of report	Apr. 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: Ryan Hsiao

Report Producer: Amber Chiu

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), be(EHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax(HEW40), be(EHT40)	2422-2452	3-9 [7]

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11be EHT20	20	2TX
2.4-2.4835GHz	802.11be EHT40	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.
- EHT20, EHT40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- BWch is the nominal channel bandwidth.
- Evaluated EHT20/EHT40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40/HEW20/HEW40 mode are the same or lower than EHT20/EHT40.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support
1	LYNwave	ALX24M-122AA0-00	PIFA	Murata switch	2.4G+5G+6G
2	LYNwave	ALX24M-122AA0-00	PIFA	Murata switch	2.4G+5G+6G

Ant.	Port	Uncorrelated Gain (dBi)								
		2.4G	5G				6G			
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1	1	2.4	2.6	2.6	2.6	2.6	2.8	2.8	2.8	2.8
2	2	2	2.3	2.3	2.3	2.3	2.7	2.7	2.7	2.7

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

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

For 6GHz function:

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

Ant. 1 (port 1) and Ant. 2 (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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

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)_2TX	0.999	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g_Nss1,(6Mbps)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT20_Nss1,(MCS0)_2TX	0.988	0.05	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT40_Nss1,(MCS0)_2TX	0.988	0.05	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

Model Name	SKU	with Flash (with U10)
EW-7822UN7	1	V
	2	X

From the above SKU, SKU 1 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 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	Simon Cheng	22.1~23.6°C / 53~58%	07/Nov/2024
RF Conducted	TH01-HY	Sonic Li	21.3~23.4°C / 56~58%	06/Nov/2024~11/Nov/2024
Radiated	03CH03-HY	Andy Wang	21.2~23.1°C / 52~57%	28/Oct/2024~13/Nov/2024
☐	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.				

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	AX series MP ToolKit v2.0.44_v3
------------------------------	---------------------------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	9.5
2437MHz	9.5
2462MHz	9.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	9.75
2437MHz	9.75
2462MHz	9.75
802.11be EHT20_Nss1,(MCS0)_2TX	-
2412MHz	9.75
2417MHz	9.75
2437MHz	10
2462MHz	10
802.11be EHT40_Nss1,(MCS0)_2TX	-
2422MHz	9.25
2427MHz	9.25
2437MHz	9.5
2452MHz	9.5

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

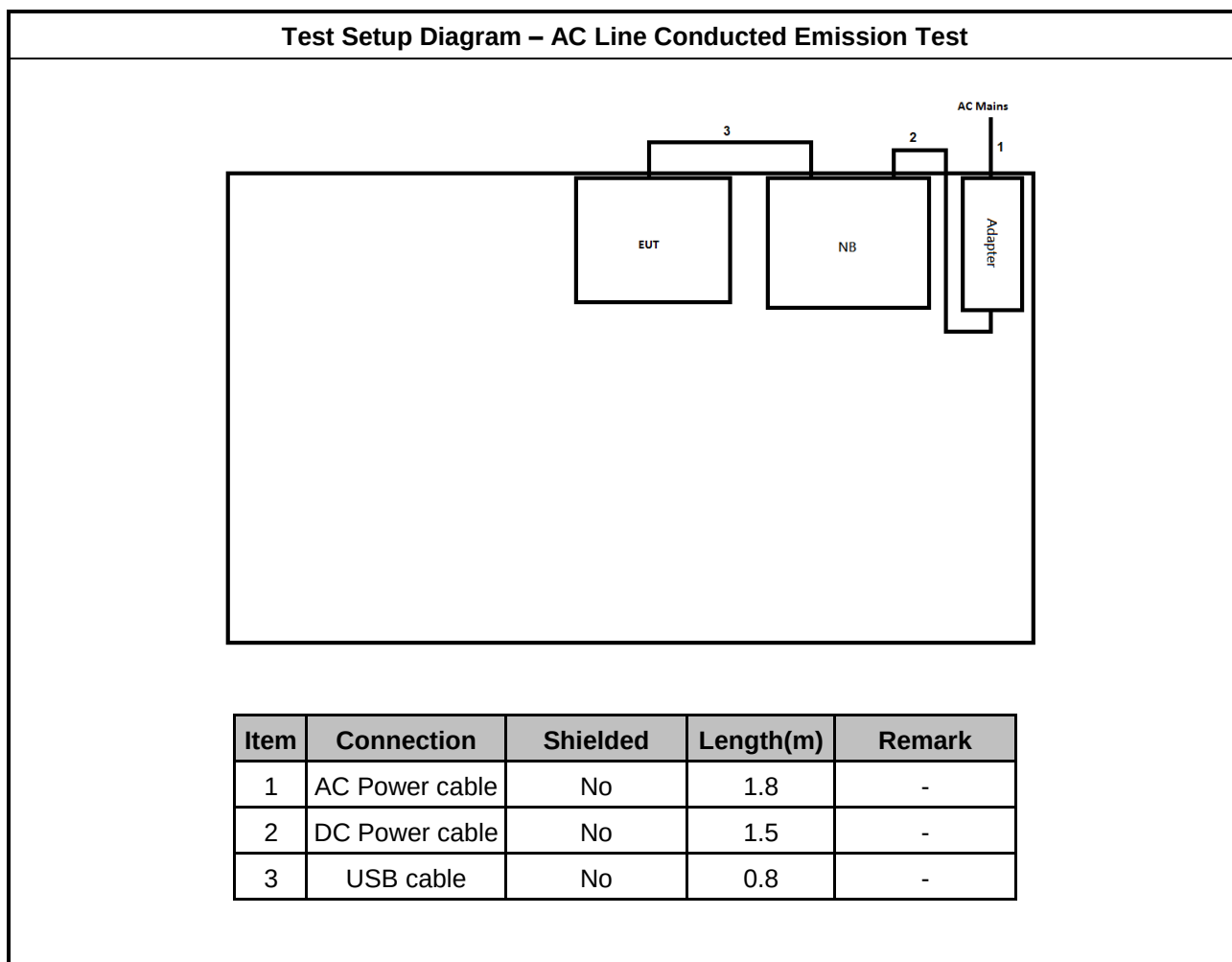
2.3 Support Equipment

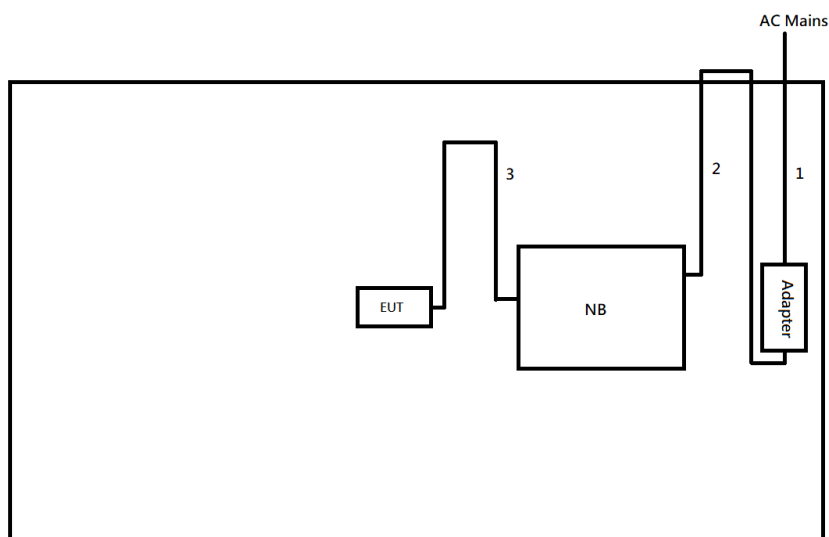
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power sync	PW-GPC180-3	-	-
2	Adapter (For NB)	HP	HSTNN-CA40	-	-
3	Notebook	HP	HSN-I14C-4	-	-
4	USB Cable	UGREEN	VW-1	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power sync	PW-GPC180-3	-	-
2	Adapter (For NB)	HP	HSTNN-CA40	-	-
3	Notebook	HP	HSN-I14C-4	-	-
4	USB Cable	UGREEN	VW-1	-	-

2.4 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	No	0.8	-

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

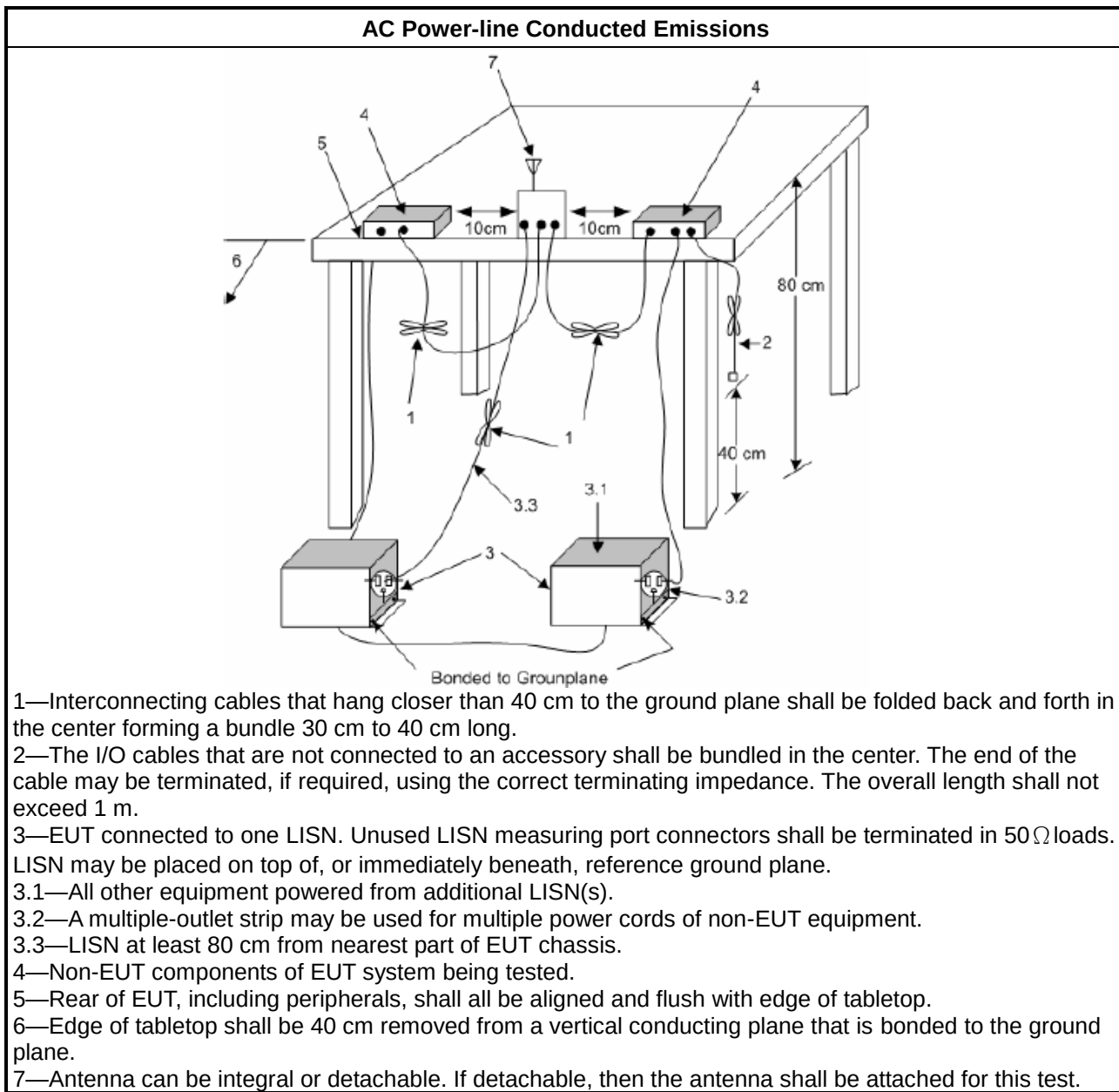
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

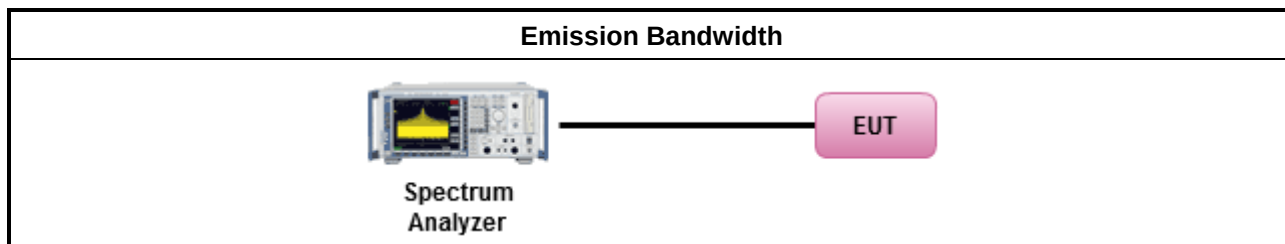
3.2.2 Measuring Instruments

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.	

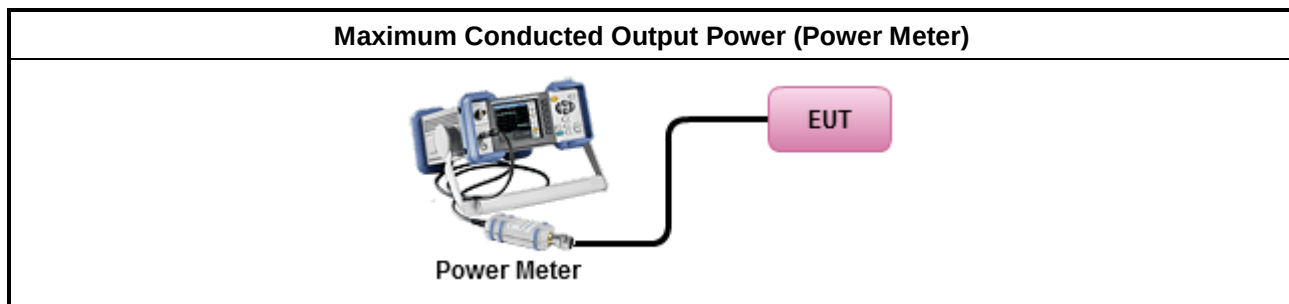
3.3.2 Measuring Instruments

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

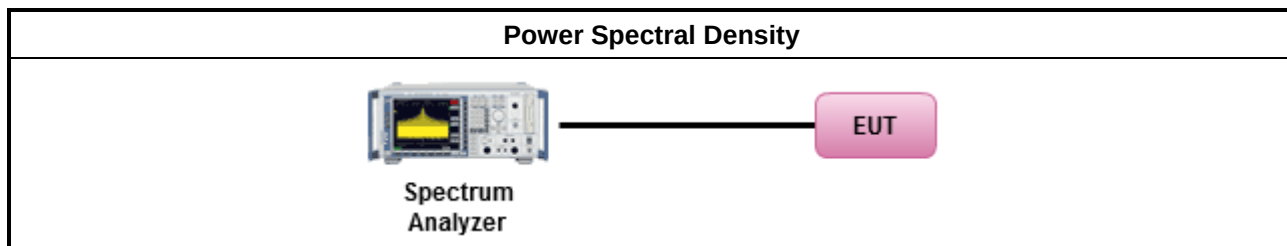
3.4.2 Measuring Instruments

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.	

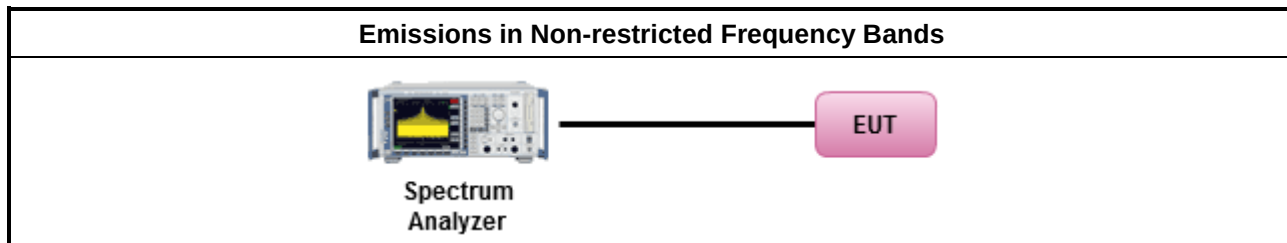
3.5.2 Measuring Instruments

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

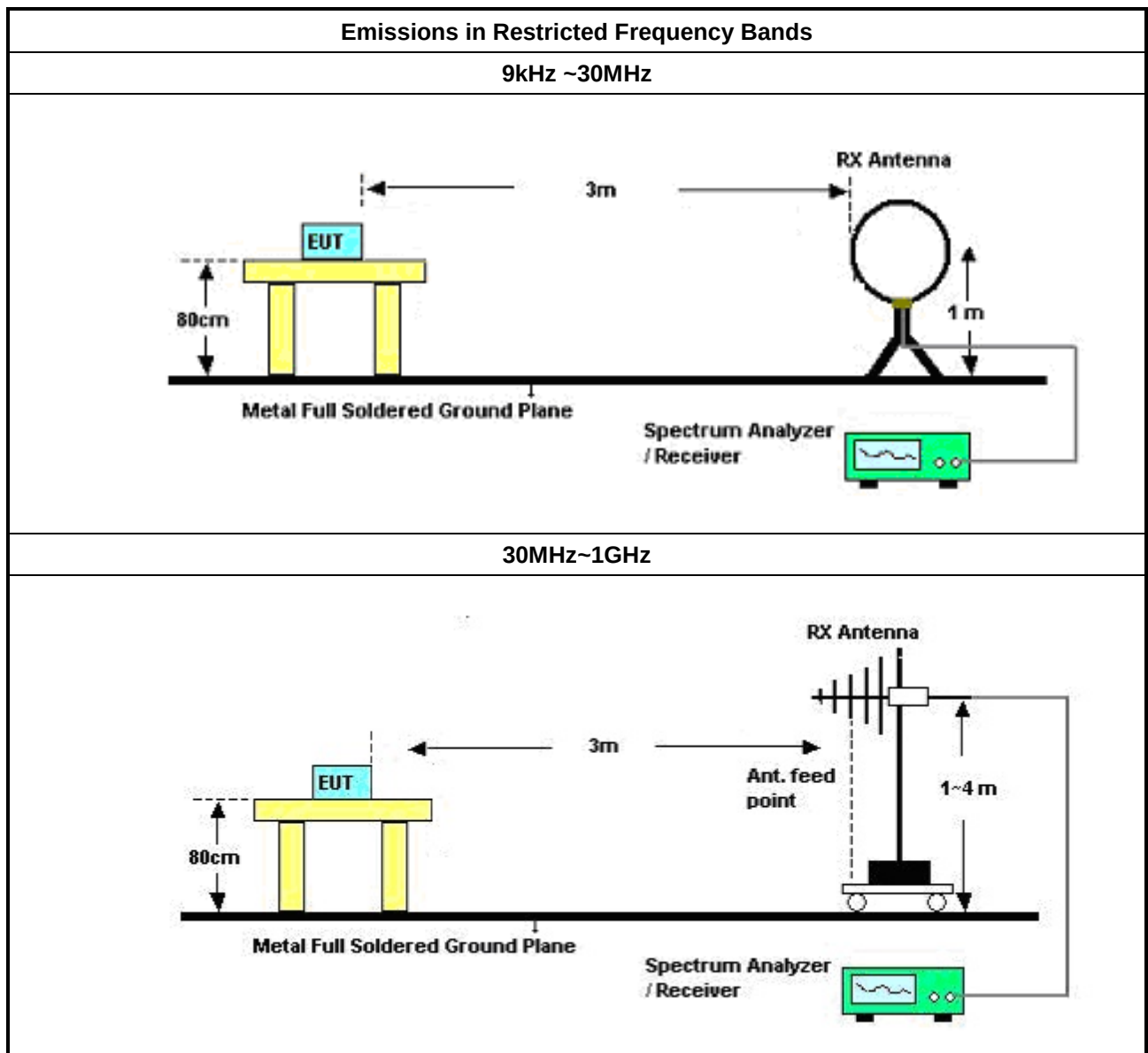
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted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

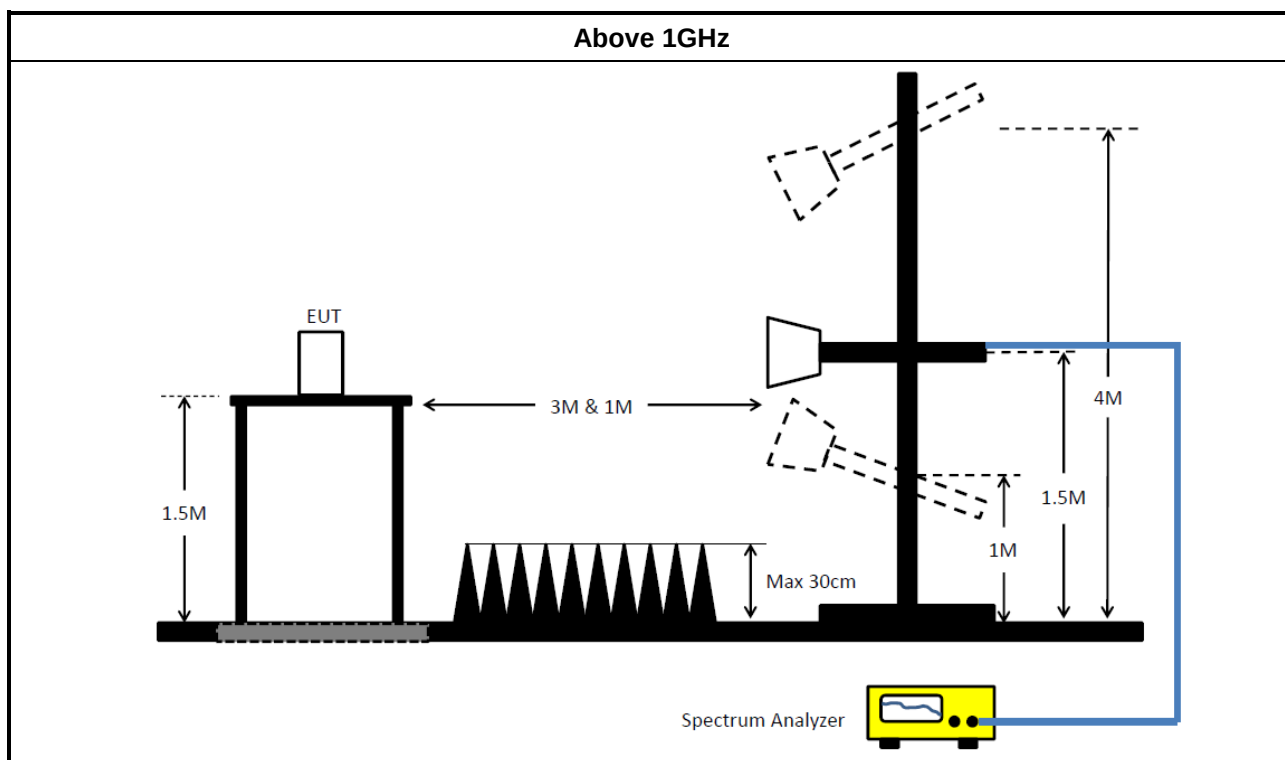
3.6.4 Measurement Results Calculation

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	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
SENSE-EMI	Sporton	V5.11.3	N/A	N/A	N/A	N/A

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	09/Apr/2024	08/Apr/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	17/Feb/2024	16/Feb/2025
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	17/Feb/2024	16/Feb/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	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSV40	101514	10Hz~40GHz	29/Apr/2024	28/Apr/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMC	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	13/Oct/2024	12/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1534	1GHz~18GHz	21/Mar/2024	20/Mar/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	04/Jun/2024	03/Jun/2025
Amplifier	Agilent	8447D	2944A08033	100kHz ~ 1.3 GHz	13/Sep/2024	12/Sep/2025
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	19/Apr/2024	18/Apr/2025
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	12/Jun/2024	11/Jun/2025
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	12/Jun/2024	11/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-03	1GHz~40GHz	20/Feb/2024	19/Feb/2025
SENSE-15407_DTS	Sporton	V5.11	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

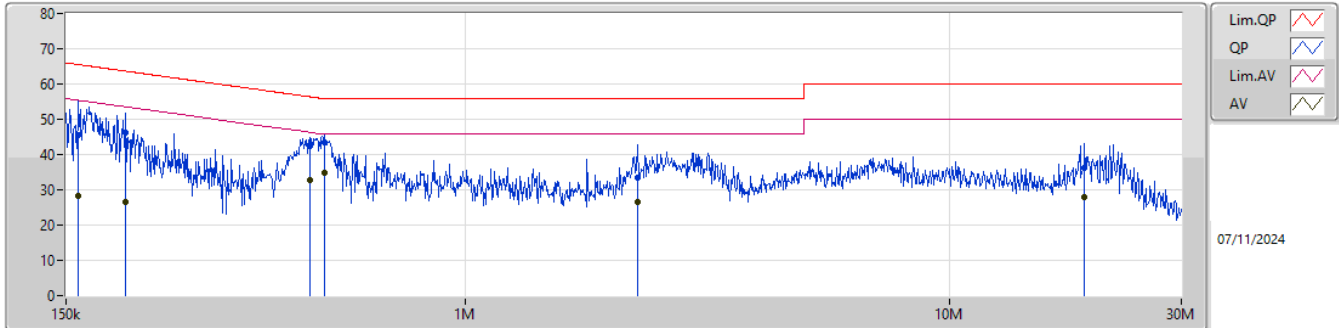
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	512.95k	34.82	46.00	-11.18	Line

Result

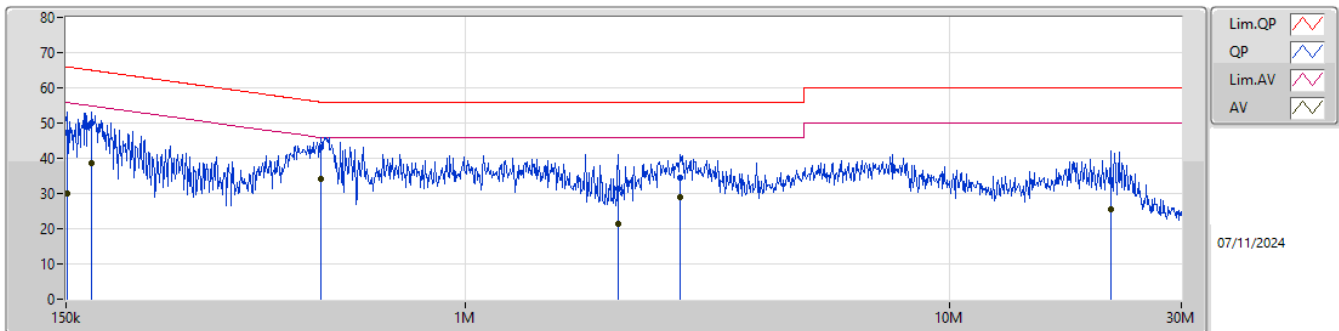
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	159.256k	45.46	65.50	-20.04	Line
Mode 1	Pass	AV	159.256k	28.15	55.50	-27.35	Line
Mode 1	Pass	QP	199.152k	46.18	63.65	-17.47	Line
Mode 1	Pass	AV	199.152k	26.48	53.65	-27.17	Line
Mode 1	Pass	QP	477.384k	42.46	56.38	-13.92	Line
Mode 1	Pass	AV	477.384k	32.85	46.38	-13.53	Line
Mode 1	Pass	QP	512.95k	43.52	56.00	-12.48	Line
Mode 1	Pass	AV	512.95k	34.82	46.00	-11.18	Line
Mode 1	Pass	QP	2.265M	33.60	56.00	-22.40	Line
Mode 1	Pass	AV	2.265M	26.61	46.00	-19.39	Line
Mode 1	Pass	QP	18.939M	36.35	60.00	-23.65	Line
Mode 1	Pass	AV	18.939M	27.82	50.00	-22.18	Line
Mode 1	Pass	QP	150.6k	47.10	65.96	-18.86	Neutral
Mode 1	Pass	AV	150.6k	29.88	55.96	-26.08	Neutral
Mode 1	Pass	QP	169.76k	50.08	64.97	-14.89	Neutral
Mode 1	Pass	AV	169.76k	38.48	54.97	-16.49	Neutral
Mode 1	Pass	QP	502.813k	43.06	56.00	-12.94	Neutral
Mode 1	Pass	AV	502.813k	34.20	46.00	-11.80	Neutral
Mode 1	Pass	QP	2.066M	31.40	56.00	-24.60	Neutral
Mode 1	Pass	AV	2.066M	21.48	46.00	-24.52	Neutral
Mode 1	Pass	QP	2.776M	34.59	56.00	-21.41	Neutral
Mode 1	Pass	AV	2.776M	28.88	46.00	-17.12	Neutral
Mode 1	Pass	QP	21.434M	33.95	60.00	-26.05	Neutral
Mode 1	Pass	AV	21.434M	25.65	50.00	-24.35	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	159.256k	45.46	65.50	-20.04	19.70	Line	-	25.76	9.66	0.07	9.97						
AV	159.256k	28.15	55.50	-27.35	19.70	Line	-	8.45	9.66	0.07	9.97						
QP	199.152k	46.18	63.65	-17.47	19.71	Line	-	26.47	9.65	0.09	9.97						
AV	199.152k	26.48	53.65	-27.17	19.71	Line	-	6.77	9.65	0.09	9.97						
QP	477.384k	42.46	56.38	-13.92	19.74	Line	-	22.72	9.65	0.11	9.98						
AV	477.384k	32.85	46.38	-13.53	19.74	Line	-	13.11	9.65	0.11	9.98						
QP	512.95k	43.52	56.00	-12.48	19.74	Line	-	23.78	9.65	0.11	9.98						
AV	512.95k	34.82	46.00	-11.18	19.74	Line	-	15.08	9.65	0.11	9.98						
QP	2.265M	33.60	56.00	-22.40	19.74	Line	-	13.86	9.67	0.10	9.97						
AV	2.265M	26.61	46.00	-19.39	19.74	Line	-	6.87	9.67	0.10	9.97						
QP	18.939M	36.35	60.00	-23.65	19.77	Line	-	16.58	9.68	0.11	9.98						
AV	18.939M	27.82	50.00	-22.18	19.77	Line	-	8.05	9.68	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	150.6k	47.10	65.96	-18.86	19.64	Neutral	-	27.46	9.60	0.07	9.97						
AV	150.6k	29.88	55.96	-26.08	19.64	Neutral	-	10.24	9.60	0.07	9.97						
QP	169.76k	50.08	64.97	-14.89	19.65	Neutral	-	30.43	9.60	0.08	9.97						
AV	169.76k	38.48	54.97	-16.49	19.65	Neutral	-	18.83	9.60	0.08	9.97						
QP	502.813k	43.06	56.00	-12.94	19.69	Neutral	-	23.37	9.60	0.11	9.98						
AV	502.813k	34.20	46.00	-11.80	19.69	Neutral	-	14.51	9.60	0.11	9.98						
QP	2.066M	31.40	56.00	-24.60	19.69	Neutral	-	11.71	9.61	0.11	9.97						
AV	2.066M	21.48	46.00	-24.52	19.69	Neutral	-	1.79	9.61	0.11	9.97						
QP	2.776M	34.59	56.00	-21.41	19.67	Neutral	-	14.92	9.61	0.09	9.97						
AV	2.776M	28.88	46.00	-17.12	19.67	Neutral	-	9.21	9.61	0.09	9.97						
QP	21.434M	33.95	60.00	-26.05	19.77	Neutral	-	14.18	9.67	0.12	9.98						
AV	21.434M	25.65	50.00	-24.35	19.77	Neutral	-	5.88	9.67	0.12	9.98						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.075M	13.658M	13M7G1D	7.25M	13.583M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.272M	16M3D1D	13.175M	16.228M
802.11be EHT20_Nss1,(MCS0)_2TX	18.575M	18.791M	18M8D1D	13.375M	18.741M
802.11be EHT40_Nss1,(MCS0)_2TX	37.75M	37.631M	37M6D1D	30.6M	37.331M

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

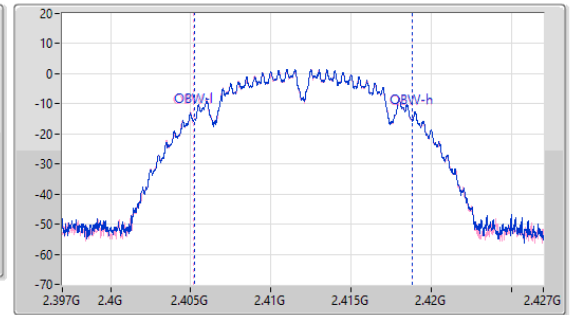
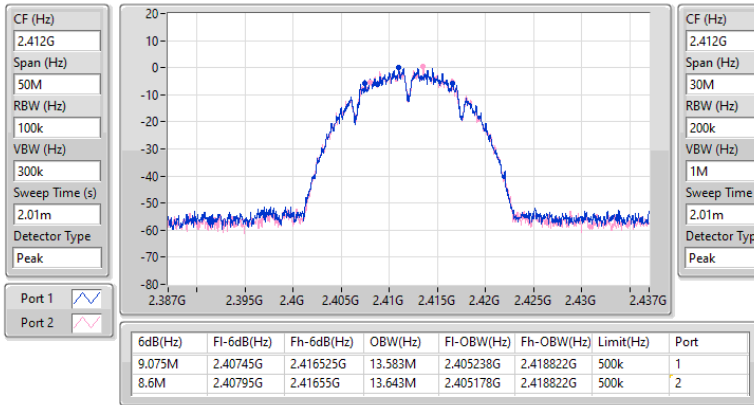
Result

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	9.075M	13.583M	8.6M	13.643M
2437MHz	Pass	500k	8.55M	13.598M	8.425M	13.658M
2462MHz	Pass	500k	9.05M	13.583M	7.25M	13.658M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.925M	16.228M	14.425M	16.25M
2437MHz	Pass	500k	13.4M	16.272M	16.3M	16.25M
2462MHz	Pass	500k	13.175M	16.25M	15.125M	16.25M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	13.9M	18.791M	17.225M	18.766M
2437MHz	Pass	500k	18.575M	18.741M	16.05M	18.766M
2462MHz	Pass	500k	13.375M	18.766M	18.2M	18.791M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	30.6M	37.631M	34.15M	37.331M
2437MHz	Pass	500k	34.15M	37.481M	37.75M	37.531M
2452MHz	Pass	500k	36.55M	37.431M	37.2M	37.581M

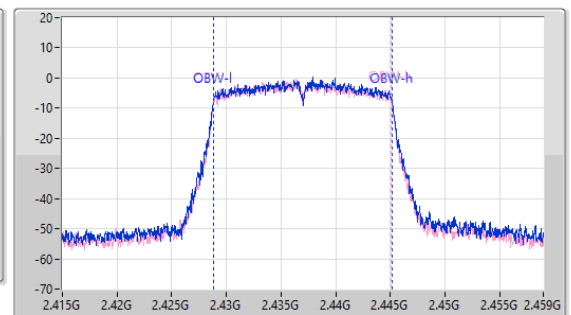
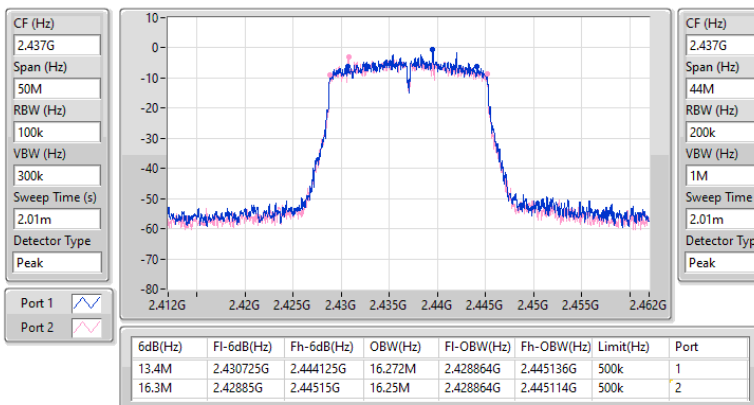
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

06/11/2024

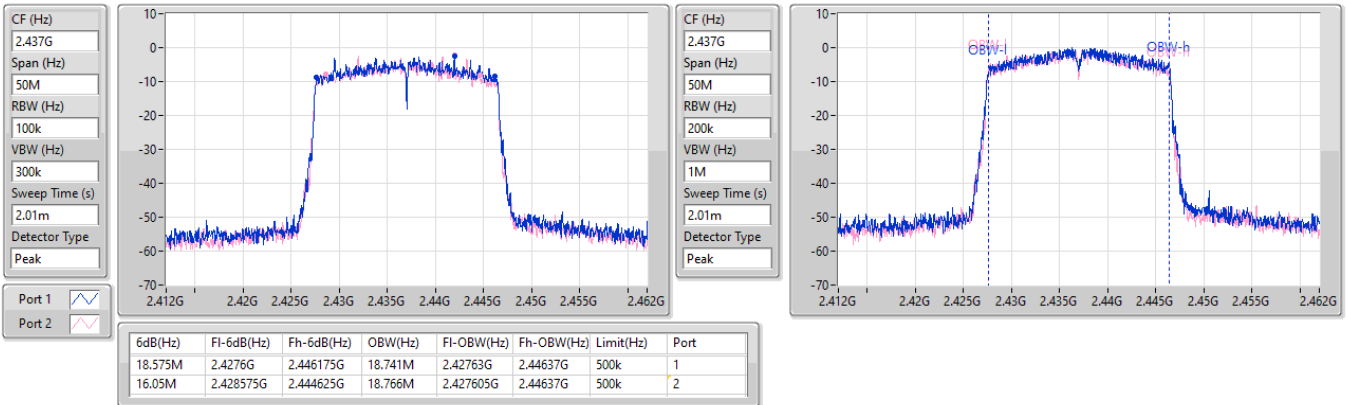

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

06/11/2024

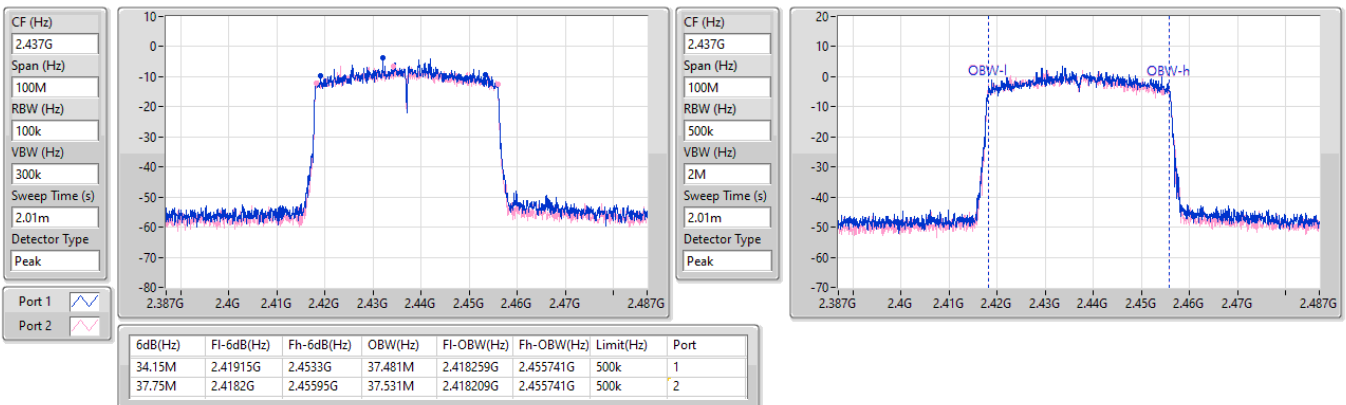


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2437MHz

06/11/2024


2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
2437MHz

06/11/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	13.44	0.02208
802.11g_Nss1,(6Mbps)_2TX	13.52	0.02249
802.11be EHT20_Nss1,(MCS0)_2TX	13.42	0.02198
802.11be EHT40_Nss1,(MCS0)_2TX	13.45	0.02213

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.40	10.17	10.12	13.16	30.00
2437MHz	Pass	2.40	10.66	10.06	13.38	30.00
2462MHz	Pass	2.40	10.64	10.21	13.44	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.40	10.57	10.21	13.40	30.00
2437MHz	Pass	2.40	10.73	10.27	13.52	30.00
2462MHz	Pass	2.40	10.60	10.14	13.39	30.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.40	10.41	10.02	13.23	30.00
2417MHz	Pass	2.40	10.24	10.05	13.16	30.00
2437MHz	Pass	2.40	10.65	10.15	13.42	30.00
2462MHz	Pass	2.40	10.64	10.13	13.40	30.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.40	10.09	10.07	13.09	30.00
2427MHz	Pass	2.40	10.21	10.08	13.16	30.00
2437MHz	Pass	2.40	10.63	10.10	13.38	30.00
2452MHz	Pass	2.40	10.77	10.09	13.45	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)_2TX	-10.97
802.11g_Nss1,(6Mbps)_2TX	-12.43
802.11be EHT20_Nss1,(MCS0)_2TX	-12.11
802.11be EHT40_Nss1,(MCS0)_2TX	-16.37

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	5.21	-13.66	-12.42	-11.78	8.00
2437MHz	Pass	5.21	-12.43	-14.00	-11.06	8.00
2462MHz	Pass	5.21	-13.74	-12.60	-10.97	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.21	-15.79	-15.94	-13.30	8.00
2437MHz	Pass	5.21	-15.08	-15.84	-12.89	8.00
2462MHz	Pass	5.21	-14.86	-15.51	-12.43	8.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.21	-14.73	-15.54	-12.11	8.00
2437MHz	Pass	5.21	-15.20	-15.08	-12.40	8.00
2462MHz	Pass	5.21	-15.16	-15.83	-14.26	8.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.21	-19.24	-19.35	-16.99	8.00
2437MHz	Pass	5.21	-19.60	-19.87	-17.74	8.00
2452MHz	Pass	5.21	-18.89	-19.62	-16.37	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)_2TX

PSD

2462MHz

06/11/2024

CF (Hz)
2.462G

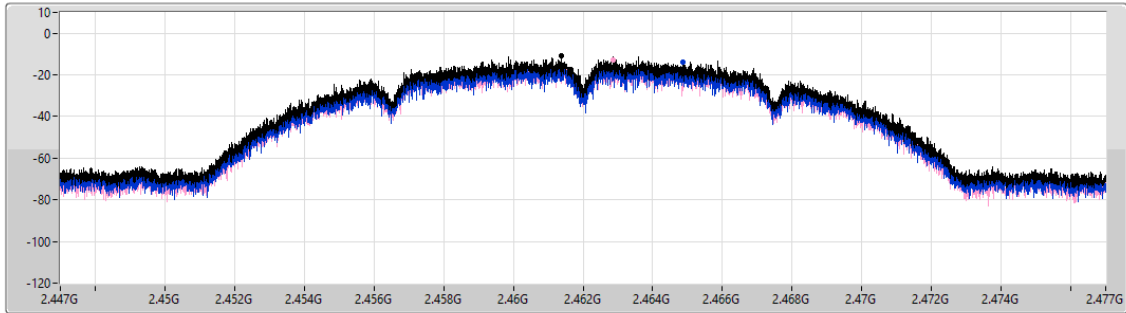
Span (Hz)
30M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
200m

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-10.97	-10.97	-13.74	-12.60

Sum ☒

Port 1 ☐

Port 2 ☐

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

PSD

2462MHz

06/11/2024

CF (Hz)
2.462G

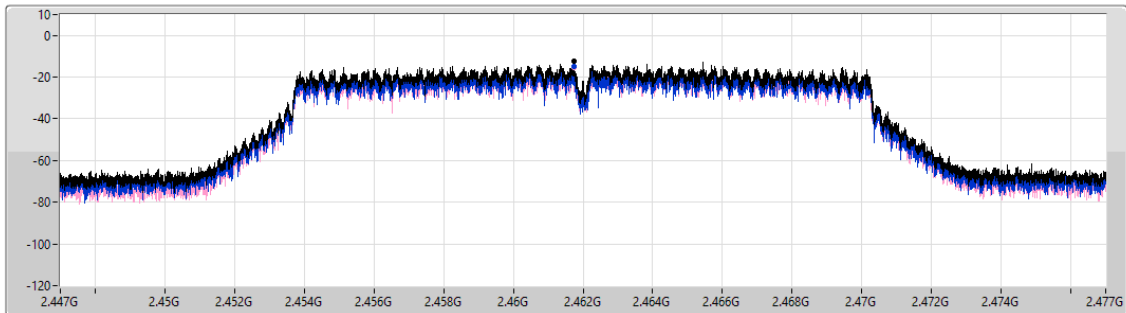
Span (Hz)
30M

RBW (Hz)
3k

VBW (Hz)
10k

Sweep Time (s)
200m

Detector Type
Peak



Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-12.43	-12.43	-14.86	-15.51

Sum ☒

Port 1 ☐

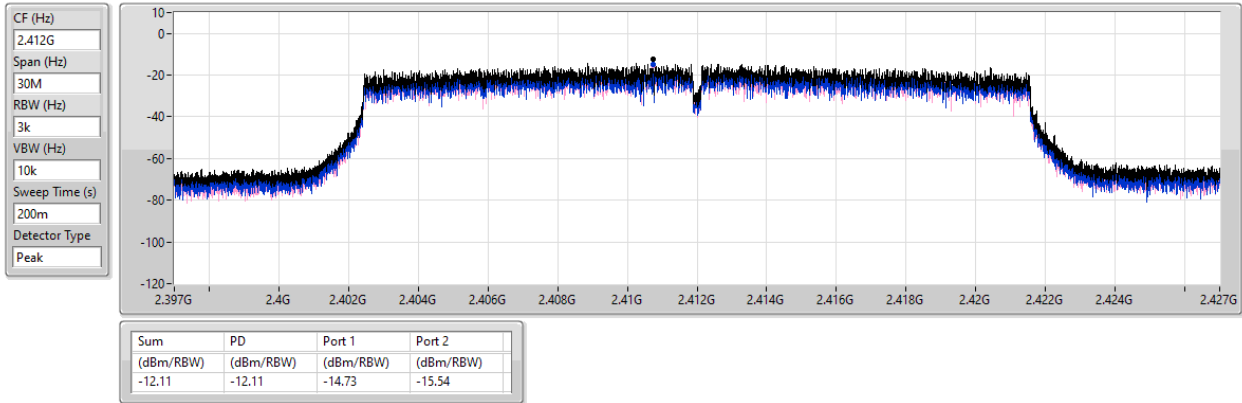
Port 2 ☐

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2412MHz

06/11/2024

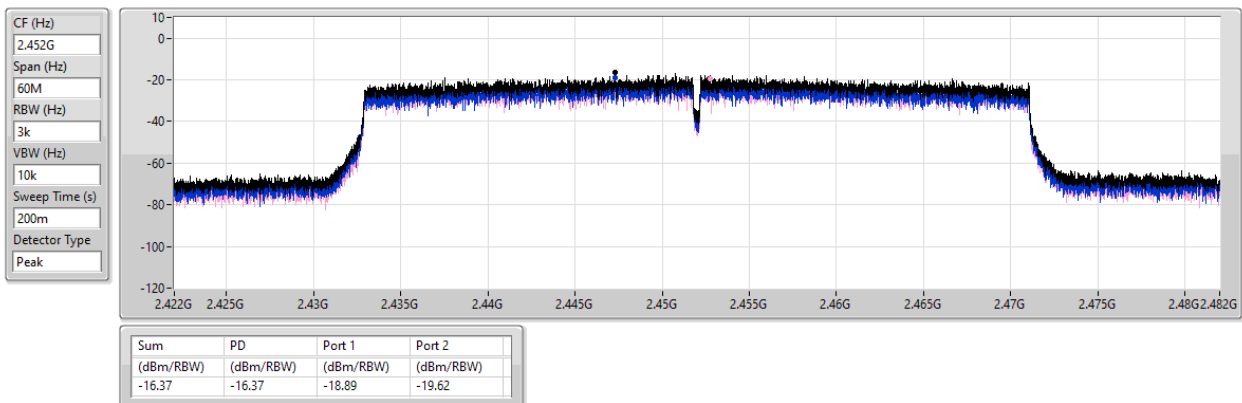


2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

PSD

2452MHz

06/11/2024





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)_2TX	Pass	2.46162G	2.45	-27.55	2.11652G	-53.96	2.39944G	-48.02	2.4G	-51.31	2.51046G	-51.40	15.23958G	-40.24	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	0.93	-29.07	1.89633G	-53.39	2.39768G	-48.17	2.4G	-49.08	2.52094G	-51.09	24.51956G	-40.19	2
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	2.43574G	0.72	-29.28	1.91031G	-53.02	2.4G	-50.42	2.4G	-48.93	2.51302G	-50.84	24.4409G	-39.64	1
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	2.44943G	-2.26	-32.26	2.3097G	-53.12	2.3992G	-51.21	2.4G	-51.96	2.55982G	-49.90	16.87238G	-39.50	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46162G	2.45	-27.55	2.16778G	-53.43	2.398G	-48.81	2.4G	-52.06	2.5075G	-51.17	24.67971G	-39.65	1
2412MHz	Pass	2.46162G	2.45	-27.55	2.11652G	-53.96	2.39944G	-48.02	2.4G	-51.31	2.51046G	-51.40	15.23958G	-40.24	2
2437MHz	Pass	2.46162G	2.45	-27.55	1.96973G	-52.86	2.39856G	-52.02	2.4G	-54.40	2.50982G	-51.11	15.19463G	-39.66	1
2437MHz	Pass	2.46162G	2.45	-27.55	2.16079G	-52.57	2.39112G	-51.41	2.4G	-53.45	2.5203G	-51.09	24.80052G	-39.00	2
2462MHz	Pass	2.46162G	2.45	-27.55	2.1503G	-53.25	2.39744G	-51.32	2.4G	-52.25	2.51574G	-51.24	24.76962G	-39.67	1
2462MHz	Pass	2.46162G	2.45	-27.55	1.63071G	-52.21	2.39328G	-52.28	2.4G	-53.23	2.52126G	-50.16	24.60385G	-40.14	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	0.93	-29.07	1.9639G	-52.87	2.39992G	-50.64	2.4G	-48.90	2.5211G	-51.04	16.47579G	-39.87	1
2412MHz	Pass	2.43574G	0.93	-29.07	1.89633G	-53.39	2.39768G	-48.17	2.4G	-49.08	2.52094G	-51.09	24.51956G	-40.19	2
2437MHz	Pass	2.43574G	0.93	-29.07	2.16545G	-53.40	2.39592G	-51.09	2.4G	-52.77	2.50286G	-51.30	24.81457G	-39.76	1
2437MHz	Pass	2.43574G	0.93	-29.07	1.99186G	-53.49	2.39504G	-51.56	2.4G	-52.93	2.50886G	-51.44	24.46337G	-39.06	2
2462MHz	Pass	2.43574G	0.93	-29.07	2.16894G	-52.80	2.4G	-51.63	2.4G	-54.78	2.5175G	-51.31	24.24985G	-39.85	1
2462MHz	Pass	2.43574G	0.93	-29.07	2.18875G	-53.41	2.39752G	-52.51	2.4G	-53.91	2.51614G	-50.78	17.6558G	-39.95	2
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	0.72	-29.28	1.91031G	-53.02	2.4G	-50.42	2.4G	-48.93	2.51302G	-50.84	24.4409G	-39.64	1
2412MHz	Pass	2.43574G	0.72	-29.28	2.30641G	-53.21	2.39944G	-49.58	2.4G	-50.64	2.51398G	-51.48	23.21312G	-39.44	2
2437MHz	Pass	2.43574G	0.72	-29.28	2.12817G	-53.41	2.39592G	-51.96	2.4G	-54.12	2.51726G	-51.20	24.764G	-39.63	1
2437MHz	Pass	2.43574G	0.72	-29.28	1.88585G	-51.22	2.39112G	-51.88	2.4G	-53.17	2.50814G	-51.31	21.89543G	-39.70	2
2462MHz	Pass	2.43574G	0.72	-29.28	2.09788G	-53.14	2.39368G	-51.95	2.4G	-54.06	2.51702G	-50.75	24.83143G	-39.47	1
2462MHz	Pass	2.43574G	0.72	-29.28	2.17593G	-52.80	2.39912G	-52.02	2.4G	-53.95	2.51446G	-50.61	24.16556G	-40.13	2
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44943G	-2.26	-32.26	2.3097G	-53.12	2.3992G	-51.21	2.4G	-51.96	2.55982G	-49.90	16.87238G	-39.50	1
2422MHz	Pass	2.44943G	-2.26	-32.26	2.1826G	-52.81	2.39472G	-50.56	2.4G	-52.29	2.52942G	-50.35	16.75739G	-40.59	2
2437MHz	Pass	2.44943G	-2.26	-32.26	2.19749G	-53.74	2.39456G	-50.35	2.4G	-53.12	2.5147G	-51.49	21.83645G	-39.62	1
2437MHz	Pass	2.44943G	-2.26	-32.26	2.17688G	-53.32	2.39712G	-52.48	2.4G	-53.94	2.5163G	-51.14	24.4447G	-38.75	2
2452MHz	Pass	2.44943G	-2.26	-32.26	1.90093G	-52.62	2.39696G	-52.07	2.4G	-53.90	2.5491G	-51.63	16.20489G	-40.10	1
2452MHz	Pass	2.44943G	-2.26	-32.26	1.95131G	-53.45	2.39952G	-51.08	2.4G	-54.21	2.5243G	-50.72	24.15863G	-39.64	2

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

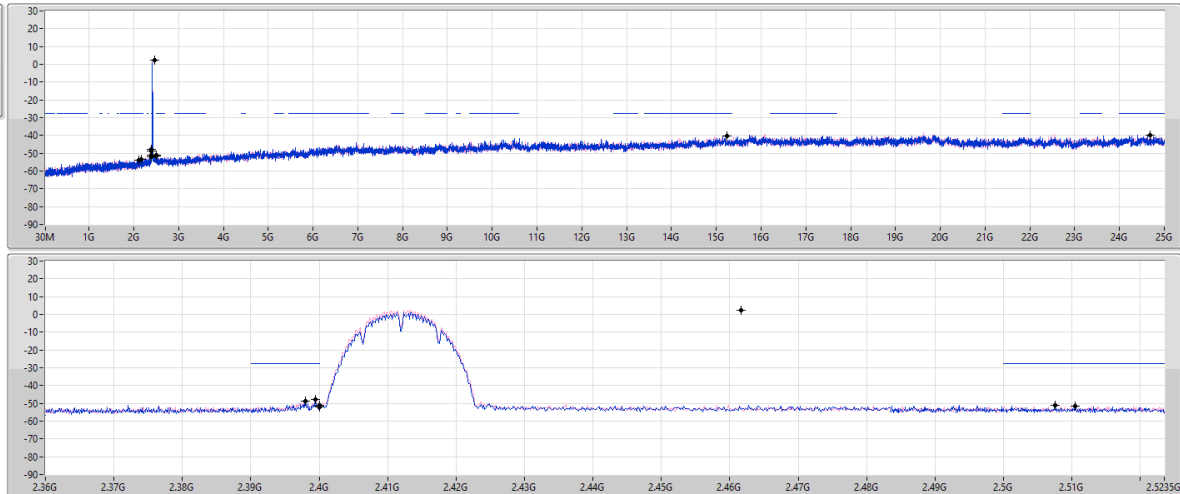
CSEndB

2412MHz

06/11/2024

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
2.46162G	2.45	-27.55	2.16778G	-53.43	2.398G	-48.81	2.4G	-52.06	2.5075G	-51.17	2.467971G	-39.65	1
2.46162G	2.45	-27.55	2.11652G	-53.96	2.39944G	-48.02	2.4G	-51.31	2.51046G	-51.40	15.23958G	-40.24	2

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

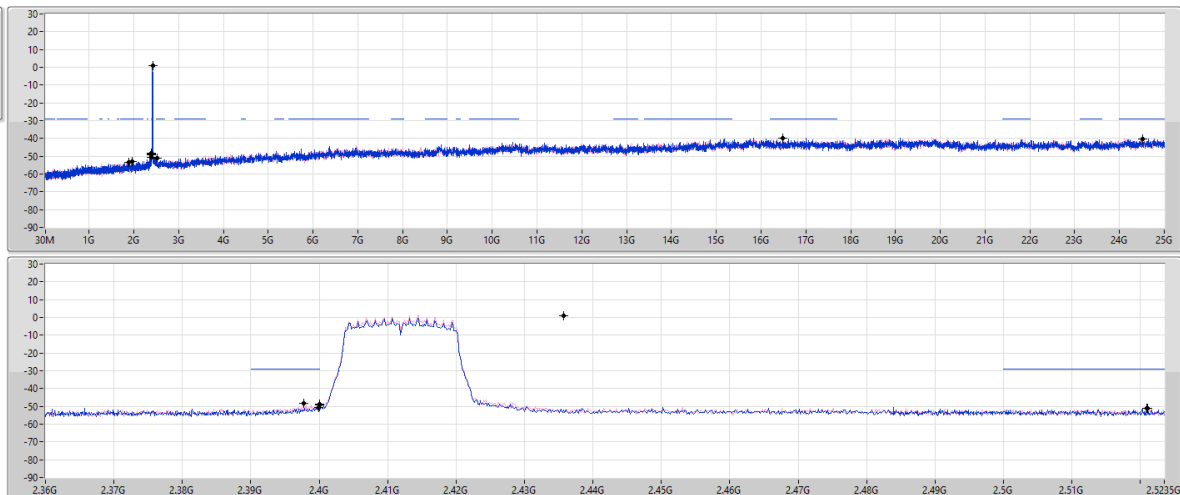
CSEndB

2412MHz

06/11/2024

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
2.43574G	0.93	-29.07	1.9639G	-52.87	2.39992G	-50.64	2.4G	-48.90	2.5211G	-51.04	16.47579G	-39.87	1
2.43574G	0.93	-29.07	1.89633G	-53.39	2.39768G	-48.17	2.4G	-49.08	2.52094G	-51.09	24.51956G	-40.19	2

2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

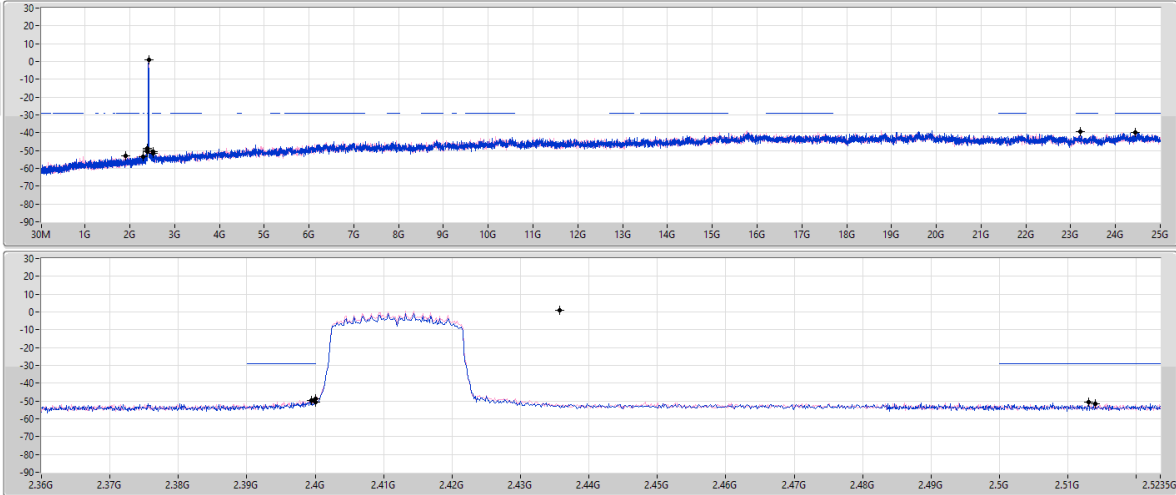
CSEndB

2412MHz

06/11/2024

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
2.43574G	0.72	-29.28	1.91031G	-53.02	2.4G	-50.42	2.4G	-48.93	2.51302G	-50.84	2.44409G	-39.64	1
2.43574G	0.72	-29.28	2.30641G	-53.21	2.39944G	-49.38	2.4G	-50.64	2.51398G	-51.48	2.521312G	-39.44	2

2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

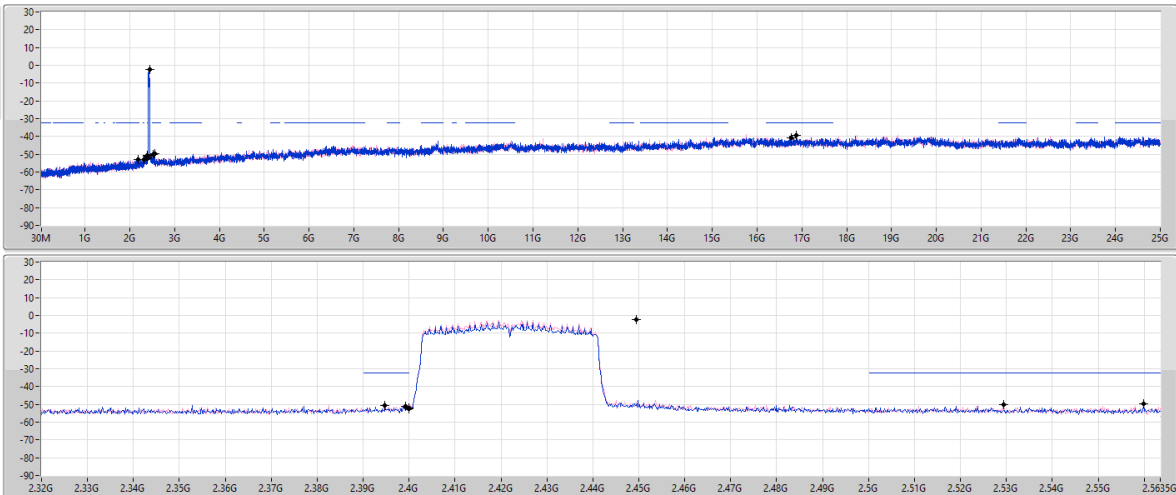
CSEndB

2422MHz

06/11/2024

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
2.44943G	-2.26	-32.26	2.3097G	-53.12	2.3992G	-51.21	2.4G	-51.96	2.55982G	-49.90	16.87238G	-39.50	1
2.44943G	-2.26	-32.26	2.1826G	-52.81	2.39472G	-50.36	2.4G	-52.29	2.52942G	-50.35	16.75739G	-40.59	2



Summary

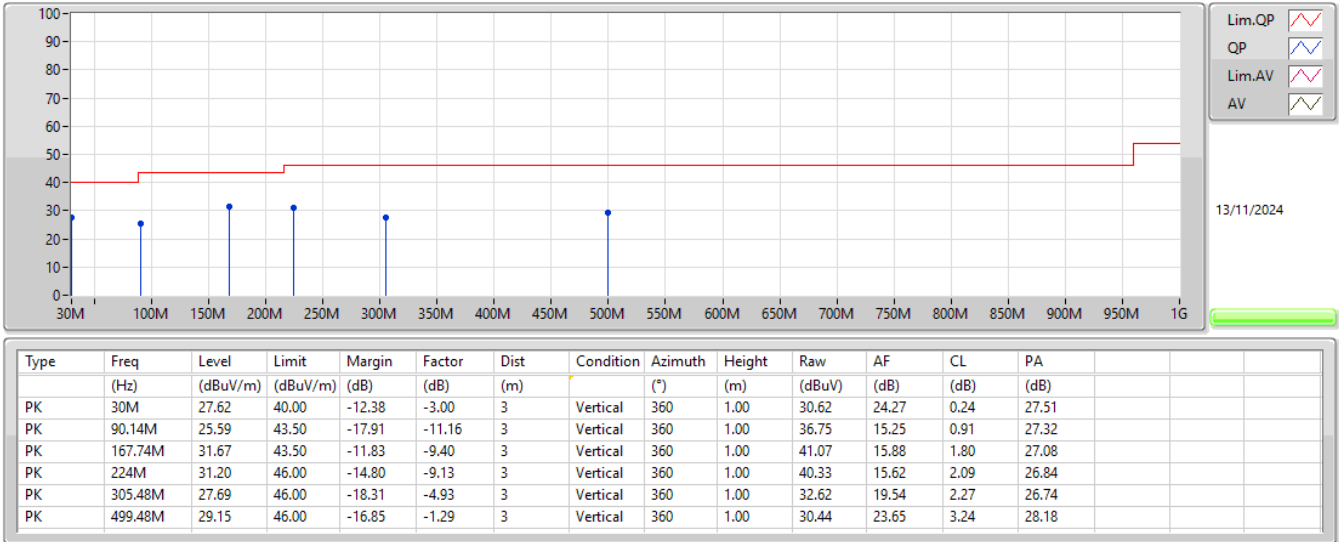
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	PK	208.48M	34.13	43.50	-9.37	3	Horizontal	0	1.00

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	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	27.62	40.00	-12.38	3	Vertical	360	1.00
2437MHz	Pass	PK	90.14M	25.59	43.50	-17.91	3	Vertical	360	1.00
2437MHz	Pass	PK	167.74M	31.67	43.50	-11.83	3	Vertical	360	1.00
2437MHz	Pass	PK	224M	31.20	46.00	-14.80	3	Vertical	360	1.00
2437MHz	Pass	PK	305.48M	27.69	46.00	-18.31	3	Vertical	360	1.00
2437MHz	Pass	PK	499.48M	29.15	46.00	-16.85	3	Vertical	360	1.00
2437MHz	Pass	PK	78.5M	28.62	40.00	-11.38	3	Horizontal	0	1.00
2437MHz	Pass	PK	146.4M	31.94	43.50	-11.56	3	Horizontal	0	1.00
2437MHz	Pass	PK	208.48M	34.13	43.50	-9.37	3	Horizontal	0	1.00
2437MHz	Pass	PK	342.34M	30.59	46.00	-15.41	3	Horizontal	0	1.00
2437MHz	Pass	PK	462.62M	27.21	46.00	-18.79	3	Horizontal	0	1.00
2437MHz	Pass	PK	549.92M	28.63	46.00	-17.37	3	Horizontal	0	1.00

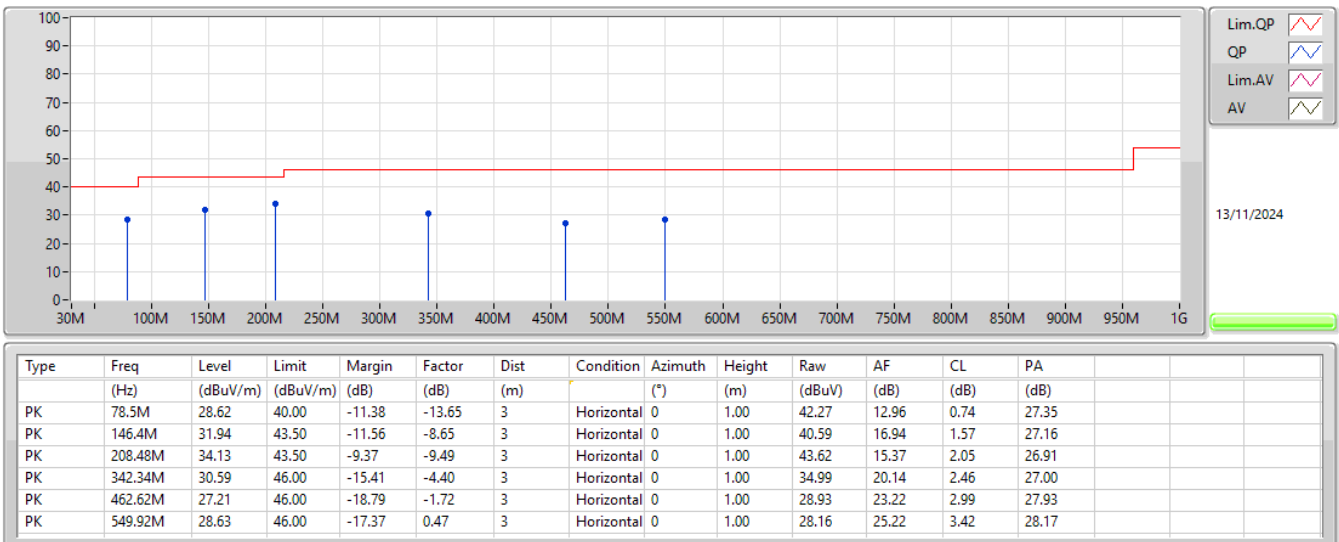
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_USB



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

2437MHz_USB



**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	52.96	54.00	-1.04	3	Horizontal	119	1.74
802.11g_Nss1,(6Mbps)_2TX	Pass	PK	2.4846G	72.90	74.00	-1.10	3	Horizontal	119	1.74
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	PK	2.4856G	72.74	74.00	-1.26	3	Horizontal	119	1.74
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	PK	2.39G	72.96	74.00	-1.04	3	Horizontal	119	1.82

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	2.3866G	47.85	54.00	-6.15	3	Vertical	129	2.31
2412MHz	Pass	AV	2.4114G	108.05	Inf	-Inf	3	Vertical	129	2.31
2412MHz	Pass	PK	2.3894G	58.79	74.00	-15.21	3	Vertical	129	2.31
2412MHz	Pass	PK	2.4132G	112.62	Inf	-Inf	3	Vertical	129	2.31
2412MHz	Pass	AV	2.3862G	48.22	54.00	-5.78	3	Horizontal	119	1.58
2412MHz	Pass	AV	2.4134G	109.34	Inf	-Inf	3	Horizontal	119	1.58
2412MHz	Pass	PK	2.3864G	60.36	74.00	-13.64	3	Horizontal	119	1.58
2412MHz	Pass	PK	2.4132G	114.05	Inf	-Inf	3	Horizontal	119	1.58
2412MHz	Pass	AV	4.82444G	38.02	54.00	-15.98	3	Vertical	333	2.96
2412MHz	Pass	AV	14.47296G	51.84	54.00	-2.16	3	Vertical	23	1.01
2412MHz	Pass	PK	4.8244G	47.99	74.00	-26.01	3	Vertical	333	2.96
2412MHz	Pass	PK	14.47296G	63.03	74.00	-10.97	3	Vertical	23	1.01
2412MHz	Pass	AV	4.82432G	40.04	54.00	-13.96	3	Horizontal	168	1.06
2412MHz	Pass	AV	14.47316G	49.90	54.00	-4.10	3	Horizontal	293	2.81
2412MHz	Pass	PK	4.82448G	48.70	74.00	-25.30	3	Horizontal	168	1.06
2412MHz	Pass	PK	14.47032G	62.72	74.00	-11.28	3	Horizontal	293	2.81
2417MHz	Pass	AV	2.389G	52.50	54.00	-1.50	3	Vertical	120	2.81
2417MHz	Pass	AV	2.416G	111.92	Inf	-Inf	3	Vertical	120	2.81
2417MHz	Pass	PK	2.3896G	61.67	74.00	-12.33	3	Vertical	120	2.81
2417MHz	Pass	PK	2.4182G	117.69	Inf	-Inf	3	Vertical	120	2.81
2417MHz	Pass	AV	2.3888G	51.66	54.00	-2.34	3	Horizontal	120	1.57
2417MHz	Pass	AV	2.419G	112.04	Inf	-Inf	3	Horizontal	120	1.57
2417MHz	Pass	PK	2.3886G	61.42	74.00	-12.58	3	Horizontal	120	1.57
2417MHz	Pass	PK	2.4184G	117.80	Inf	-Inf	3	Horizontal	120	1.57
2417MHz	Pass	AV	4.83456G	40.89	54.00	-13.11	3	Vertical	71	1.06
2417MHz	Pass	AV	7.25048G	42.06	54.00	-11.94	3	Vertical	108	1.98
2417MHz	Pass	PK	4.8346G	49.14	74.00	-24.86	3	Vertical	71	1.06
2417MHz	Pass	PK	7.25292G	53.14	74.00	-20.86	3	Vertical	108	1.98
2417MHz	Pass	AV	4.83456G	42.29	54.00	-11.71	3	Horizontal	181	2.34
2417MHz	Pass	AV	7.25084G	48.73	54.00	-5.27	3	Horizontal	96	1.19
2417MHz	Pass	PK	4.83456G	50.04	74.00	-23.96	3	Horizontal	181	2.34
2417MHz	Pass	PK	7.25316G	57.32	74.00	-16.68	3	Horizontal	96	1.19
2437MHz	Pass	AV	2.3898G	50.26	54.00	-3.74	3	Vertical	124	2.63
2437MHz	Pass	AV	2.4358G	114.76	Inf	-Inf	3	Vertical	124	2.63
2437MHz	Pass	AV	2.485G	49.77	54.00	-4.23	3	Vertical	124	2.63
2437MHz	Pass	PK	2.389G	61.18	74.00	-12.82	3	Vertical	124	2.63
2437MHz	Pass	PK	2.4362G	119.66	Inf	-Inf	3	Vertical	124	2.63
2437MHz	Pass	PK	2.4982G	59.88	74.00	-14.12	3	Vertical	124	2.63
2437MHz	Pass	AV	2.3898G	49.79	54.00	-4.21	3	Horizontal	118	1.79
2437MHz	Pass	AV	2.4366G	113.39	Inf	-Inf	3	Horizontal	118	1.79
2437MHz	Pass	AV	2.485G	48.92	54.00	-5.08	3	Horizontal	118	1.79
2437MHz	Pass	PK	2.389G	59.67	74.00	-14.33	3	Horizontal	118	1.79
2437MHz	Pass	PK	2.4362G	119.65	Inf	-Inf	3	Horizontal	118	1.79
2437MHz	Pass	PK	2.485G	59.13	74.00	-14.87	3	Horizontal	118	1.79
2437MHz	Pass	PK	2.4366G	113.39	Inf	-Inf	3	Horizontal	118	1.79
2437MHz	Pass	AV	4.87436G	48.72	54.00	-5.28	3	Vertical	115	1.86
2437MHz	Pass	AV	7.3108G	41.38	54.00	-12.62	3	Vertical	0	2.23
2437MHz	Pass	PK	4.87436G	52.75	74.00	-21.25	3	Vertical	115	1.86
2437MHz	Pass	PK	7.31108G	53.79	74.00	-20.21	3	Vertical	0	2.23
2437MHz	Pass	AV	4.87484G	44.94	54.00	-9.06	3	Horizontal	120	1.11
2437MHz	Pass	AV	7.31128G	51.98	54.00	-2.02	3	Horizontal	99	1.08
2437MHz	Pass	PK	4.8748G	50.71	74.00	-23.29	3	Horizontal	120	1.11
2437MHz	Pass	PK	7.31096G	59.17	74.00	-14.83	3	Horizontal	99	1.08
2457MHz	Pass	AV	2.4556G	111.16	Inf	-Inf	3	Vertical	120	2.69
2457MHz	Pass	AV	2.4835G	52.44	54.00	-1.56	3	Vertical	120	2.69
2457MHz	Pass	PK	2.4582G	116.43	Inf	-Inf	3	Vertical	120	2.69
2457MHz	Pass	PK	2.4838G	61.25	74.00	-12.75	3	Vertical	120	2.69
2457MHz	Pass	AV	2.455G	110.89	Inf	-Inf	3	Horizontal	119	1.74
2457MHz	Pass	AV	2.4835G	52.96	54.00	-1.04	3	Horizontal	119	1.74
2457MHz	Pass	PK	2.4582G	116.59	Inf	-Inf	3	Horizontal	119	1.74

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2457MHz	Pass	PK	2.4835G	61.75	74.00	-12.25	3	Horizontal	119	1.74
2457MHz	Pass	AV	4.91452G	42.87	54.00	-11.13	3	Vertical	119	1.65
2457MHz	Pass	AV	7.37256G	39.13	54.00	-14.87	3	Vertical	0	1.46
2457MHz	Pass	PK	4.9146G	50.75	74.00	-23.25	3	Vertical	119	1.65
2457MHz	Pass	PK	7.3746G	52.23	74.00	-21.77	3	Vertical	0	1.46
2457MHz	Pass	AV	4.91448G	38.01	54.00	-15.99	3	Horizontal	120	1.00
2457MHz	Pass	AV	7.37252G	43.30	54.00	-10.70	3	Horizontal	97	1.14
2457MHz	Pass	PK	4.91488G	48.58	74.00	-25.42	3	Horizontal	120	1.00
2457MHz	Pass	PK	7.37272G	53.70	74.00	-20.30	3	Horizontal	97	1.14
2462MHz	Pass	AV	2.4616G	111.51	Inf	-Inf	3	Vertical	123	2.69
2462MHz	Pass	AV	2.4888G	52.46	54.00	-1.54	3	Vertical	123	2.69
2462MHz	Pass	PK	2.4614G	116.00	Inf	-Inf	3	Vertical	123	2.69
2462MHz	Pass	PK	2.491G	61.82	74.00	-12.18	3	Vertical	123	2.69
2462MHz	Pass	AV	2.463G	111.89	Inf	-Inf	3	Horizontal	119	1.77
2462MHz	Pass	AV	2.4886G	52.87	54.00	-1.13	3	Horizontal	119	1.77
2462MHz	Pass	PK	2.4614G	116.97	Inf	-Inf	3	Horizontal	119	1.77
2462MHz	Pass	PK	2.489G	62.62	74.00	-11.38	3	Horizontal	119	1.77
2462MHz	Pass	AV	4.92488G	41.98	54.00	-12.02	3	Vertical	116	1.83
2462MHz	Pass	AV	7.38644G	40.44	54.00	-13.56	3	Vertical	353	1.01
2462MHz	Pass	PK	4.92484G	49.45	74.00	-24.55	3	Vertical	116	1.83
2462MHz	Pass	PK	7.38792G	52.51	74.00	-21.49	3	Vertical	353	1.01
2462MHz	Pass	AV	4.92484G	42.86	54.00	-11.14	3	Horizontal	36	2.99
2462MHz	Pass	AV	7.38652G	48.11	54.00	-5.89	3	Horizontal	99	1.14
2462MHz	Pass	PK	4.92476G	49.68	74.00	-24.32	3	Horizontal	36	2.99
2462MHz	Pass	PK	7.38784G	56.13	74.00	-17.87	3	Horizontal	99	1.14
802.11g_Nss1_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.48	54.00	-2.52	3	Vertical	128	2.21
2412MHz	Pass	AV	2.4184G	103.67	Inf	-Inf	3	Vertical	128	2.21
2412MHz	Pass	PK	2.3898G	72.84	74.00	-1.16	3	Vertical	128	2.21
2412MHz	Pass	PK	2.4162G	114.89	Inf	-Inf	3	Vertical	128	2.21
2412MHz	Pass	AV	2.3888G	51.56	54.00	-2.44	3	Horizontal	120	1.58
2412MHz	Pass	AV	2.4188G	104.19	Inf	-Inf	3	Horizontal	120	1.58
2412MHz	Pass	PK	2.39G	72.65	74.00	-1.35	3	Horizontal	120	1.58
2412MHz	Pass	PK	2.416G	115.94	Inf	-Inf	3	Horizontal	120	1.58
2412MHz	Pass	AV	4.83664G	34.47	54.00	-19.53	3	Vertical	333	1.50
2412MHz	Pass	AV	14.48106G	49.52	54.00	-4.48	3	Vertical	89	1.94
2412MHz	Pass	PK	4.8068G	48.08	74.00	-25.92	3	Vertical	333	1.50
2412MHz	Pass	PK	14.48028G	63.32	74.00	-10.68	3	Vertical	89	1.94
2412MHz	Pass	AV	4.82056G	34.66	54.00	-19.34	3	Horizontal	88	1.26
2412MHz	Pass	AV	14.4867G	49.59	54.00	-4.41	3	Horizontal	220	2.50
2412MHz	Pass	PK	4.80928G	48.14	74.00	-25.86	3	Horizontal	88	1.26
2412MHz	Pass	PK	14.47836G	63.55	74.00	-10.45	3	Horizontal	220	2.50
2417MHz	Pass	AV	2.39G	51.29	54.00	-2.71	3	Vertical	123	2.62
2417MHz	Pass	AV	2.4188G	105.86	Inf	-Inf	3	Vertical	123	2.62
2417MHz	Pass	PK	2.39G	71.88	74.00	-2.12	3	Vertical	123	2.62
2417MHz	Pass	PK	2.4188G	116.52	Inf	-Inf	3	Vertical	123	2.62
2417MHz	Pass	AV	2.3888G	51.58	54.00	-2.42	3	Horizontal	120	1.58
2417MHz	Pass	AV	2.4216G	106.03	Inf	-Inf	3	Horizontal	120	1.58
2417MHz	Pass	PK	2.3838G	72.34	74.00	-1.66	3	Horizontal	120	1.58
2417MHz	Pass	PK	2.4116G	117.09	Inf	-Inf	3	Horizontal	120	1.58
2437MHz	Pass	AV	2.389G	50.26	54.00	-3.74	3	Vertical	123	2.64
2437MHz	Pass	AV	2.441G	109.26	Inf	-Inf	3	Vertical	123	2.64
2437MHz	Pass	AV	2.4835G	50.72	54.00	-3.28	3	Vertical	123	2.64
2437MHz	Pass	PK	2.389G	72.38	74.00	-1.62	3	Vertical	123	2.64
2437MHz	Pass	PK	2.4386G	120.19	Inf	-Inf	3	Vertical	123	2.64
2437MHz	Pass	PK	2.4838G	72.00	74.00	-2.00	3	Vertical	123	2.64
2437MHz	Pass	AV	2.3894G	47.32	54.00	-6.68	3	Horizontal	119	1.82
2437MHz	Pass	AV	2.4406G	99.90	Inf	-Inf	3	Horizontal	119	1.82
2437MHz	Pass	AV	2.4835G	47.74	54.00	-6.26	3	Horizontal	119	1.82
2437MHz	Pass	PK	2.3898G	66.60	74.00	-7.40	3	Horizontal	119	1.82
2437MHz	Pass	PK	2.4406G	111.20	Inf	-Inf	3	Horizontal	119	1.82
2437MHz	Pass	PK	2.4846G	65.64	74.00	-8.36	3	Horizontal	119	1.82

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	AV	4.87768G	35.55	54.00	-18.45	3	Vertical	92	1.49
2437MHz	Pass	AV	7.3088G	39.19	54.00	-14.81	3	Vertical	85	1.22
2437MHz	Pass	PK	4.87776G	50.50	74.00	-23.50	3	Vertical	92	1.49
2437MHz	Pass	PK	7.31108G	53.33	74.00	-20.67	3	Vertical	85	1.22
2437MHz	Pass	AV	4.87468G	35.26	54.00	-18.74	3	Horizontal	91	1.49
2437MHz	Pass	AV	7.30992G	41.17	54.00	-12.83	3	Horizontal	78	1.22
2437MHz	Pass	PK	4.87164G	49.98	74.00	-24.02	3	Horizontal	91	1.49
2437MHz	Pass	PK	7.31168G	55.15	74.00	-18.85	3	Horizontal	78	1.22
2457MHz	Pass	AV	2.4608G	104.83	Inf	-Inf	3	Vertical	121	2.69
2457MHz	Pass	AV	2.484G	50.60	54.00	-3.40	3	Vertical	121	2.69
2457MHz	Pass	PK	2.456G	115.71	Inf	-Inf	3	Vertical	121	2.69
2457MHz	Pass	PK	2.4835G	72.45	74.00	-1.55	3	Vertical	121	2.69
2457MHz	Pass	AV	2.456G	104.66	Inf	-Inf	3	Horizontal	122	2.63
2457MHz	Pass	AV	2.484G	50.48	54.00	-3.52	3	Horizontal	122	2.63
2457MHz	Pass	PK	2.4616G	115.49	Inf	-Inf	3	Horizontal	122	2.63
2457MHz	Pass	PK	2.4835G	70.59	74.00	-3.41	3	Horizontal	122	2.63
2462MHz	Pass	AV	2.4596G	104.00	Inf	-Inf	3	Vertical	123	2.68
2462MHz	Pass	AV	2.4835G	51.33	54.00	-2.67	3	Vertical	123	2.68
2462MHz	Pass	PK	2.4598G	114.83	Inf	-Inf	3	Vertical	123	2.68
2462MHz	Pass	PK	2.4846G	72.47	74.00	-1.53	3	Vertical	123	2.68
2462MHz	Pass	AV	2.4572G	104.11	Inf	-Inf	3	Horizontal	119	1.74
2462MHz	Pass	AV	2.4836G	51.06	54.00	-2.94	3	Horizontal	119	1.74
2462MHz	Pass	PK	2.4602G	115.54	Inf	-Inf	3	Horizontal	119	1.74
2462MHz	Pass	PK	2.4846G	72.90	74.00	-1.10	3	Horizontal	119	1.74
2462MHz	Pass	AV	4.9325G	34.26	54.00	-19.74	3	Vertical	330	1.49
2462MHz	Pass	AV	7.3632G	38.70	54.00	-15.30	3	Vertical	106	1.50
2462MHz	Pass	PK	4.9148G	48.12	74.00	-25.88	3	Vertical	330	1.49
2462MHz	Pass	PK	7.3657G	52.80	74.00	-21.20	3	Vertical	106	1.50
2462MHz	Pass	AV	4.9309G	34.26	54.00	-19.74	3	Horizontal	30	1.50
2462MHz	Pass	AV	7.3616G	38.68	54.00	-15.32	3	Horizontal	320	1.50
2462MHz	Pass	PK	4.9379G	47.60	74.00	-26.40	3	Horizontal	30	1.50
2462MHz	Pass	PK	7.3756G	52.41	74.00	-21.59	3	Horizontal	320	1.50
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	50.34	54.00	-3.66	3	Vertical	122	2.71
2412MHz	Pass	AV	2.4158G	102.82	Inf	-Inf	3	Vertical	122	2.71
2412MHz	Pass	PK	2.39G	72.49	74.00	-1.51	3	Vertical	122	2.71
2412MHz	Pass	PK	2.4092G	115.11	Inf	-Inf	3	Vertical	122	2.71
2412MHz	Pass	AV	2.3894G	50.38	54.00	-3.62	3	Horizontal	119	1.57
2412MHz	Pass	AV	2.4112G	102.75	Inf	-Inf	3	Horizontal	119	1.57
2412MHz	Pass	PK	2.3896G	72.64	74.00	-1.36	3	Horizontal	119	1.57
2412MHz	Pass	PK	2.4092G	115.92	Inf	-Inf	3	Horizontal	119	1.57
2412MHz	Pass	AV	4.81876G	33.41	54.00	-20.59	3	Vertical	337	2.25
2412MHz	Pass	AV	14.47672G	48.59	54.00	-5.41	3	Vertical	19	1.00
2412MHz	Pass	PK	4.82216G	47.25	74.00	-26.75	3	Vertical	337	2.25
2412MHz	Pass	PK	14.47742G	63.02	74.00	-10.98	3	Vertical	265	2.31
2412MHz	Pass	AV	4.81776G	33.49	54.00	-20.51	3	Horizontal	304	1.27
2412MHz	Pass	AV	14.47672G	48.66	54.00	-5.34	3	Horizontal	265	2.31
2412MHz	Pass	PK	4.82416G	47.07	74.00	-26.93	3	Horizontal	304	1.27
2412MHz	Pass	PK	14.4784G	62.73	74.00	-11.27	3	Horizontal	265	2.31
2417MHz	Pass	AV	2.39G	49.89	54.00	-4.11	3	Vertical	129	2.19
2417MHz	Pass	AV	2.4182G	103.62	Inf	-Inf	3	Vertical	129	2.19
2417MHz	Pass	PK	2.3854G	70.38	74.00	-3.62	3	Vertical	129	2.19
2417MHz	Pass	PK	2.4106G	116.21	Inf	-Inf	3	Vertical	129	2.19
2417MHz	Pass	AV	2.3894G	50.58	54.00	-3.42	3	Horizontal	119	1.58
2417MHz	Pass	AV	2.4188G	104.36	Inf	-Inf	3	Horizontal	119	1.58
2417MHz	Pass	PK	2.3836G	72.17	74.00	-1.83	3	Horizontal	119	1.58
2417MHz	Pass	PK	2.4162G	116.69	Inf	-Inf	3	Horizontal	119	1.58
2437MHz	Pass	AV	2.3898G	50.11	54.00	-3.89	3	Vertical	122	2.62
2437MHz	Pass	AV	2.4402G	107.77	Inf	-Inf	3	Vertical	122	2.62
2437MHz	Pass	AV	2.4838G	50.33	54.00	-3.67	3	Vertical	122	2.62
2437MHz	Pass	PK	2.3838G	72.18	74.00	-1.82	3	Vertical	122	2.62
2437MHz	Pass	PK	2.4406G	119.79	Inf	-Inf	3	Vertical	122	2.62

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	2.4838G	69.05	74.00	-4.95	3	Vertical	122	2.62
2437MHz	Pass	AV	2.3882G	50.38	54.00	-3.62	3	Horizontal	119	1.82
2437MHz	Pass	AV	2.4398G	107.55	Inf	-Inf	3	Horizontal	119	1.82
2437MHz	Pass	AV	2.4846G	50.19	54.00	-3.81	3	Horizontal	119	1.82
2437MHz	Pass	PK	2.3838G	72.16	74.00	-1.84	3	Horizontal	119	1.82
2437MHz	Pass	PK	2.443G	120.31	Inf	-Inf	3	Horizontal	119	1.82
2437MHz	Pass	PK	2.4922G	68.78	74.00	-5.22	3	Horizontal	119	1.82
2437MHz	Pass	AV	4.8747G	34.86	54.00	-19.14	3	Vertical	90	1.48
2437MHz	Pass	AV	7.3079G	39.48	54.00	-14.52	3	Vertical	85	1.32
2437MHz	Pass	PK	4.8748G	48.55	74.00	-25.45	3	Vertical	90	1.48
2437MHz	Pass	PK	7.3236G	53.06	74.00	-20.94	3	Vertical	85	1.32
2437MHz	Pass	AV	4.8757G	34.96	54.00	-19.04	3	Horizontal	88	1.38
2437MHz	Pass	AV	7.3083G	42.22	54.00	-11.78	3	Horizontal	78	1.16
2437MHz	Pass	PK	4.8657G	49.01	74.00	-24.99	3	Horizontal	88	1.38
2437MHz	Pass	PK	7.3088G	57.23	74.00	-16.77	3	Horizontal	78	1.16
2457MHz	Pass	AV	2.452G	104.74	Inf	-Inf	3	Vertical	124	2.56
2457MHz	Pass	AV	2.4846G	52.35	54.00	-1.65	3	Vertical	124	2.56
2457MHz	Pass	PK	2.4522G	117.87	Inf	-Inf	3	Vertical	124	2.56
2457MHz	Pass	PK	2.485G	70.63	74.00	-3.37	3	Vertical	124	2.56
2457MHz	Pass	AV	2.4524G	104.88	Inf	-Inf	3	Horizontal	119	1.74
2457MHz	Pass	AV	2.4856G	52.39	54.00	-1.61	3	Horizontal	119	1.74
2457MHz	Pass	PK	2.4524G	117.83	Inf	-Inf	3	Horizontal	119	1.74
2457MHz	Pass	PK	2.4854G	71.92	74.00	-2.08	3	Horizontal	119	1.74
2462MHz	Pass	AV	2.39G	46.45	54.00	-7.55	3	Vertical	120	2.70
2462MHz	Pass	AV	2.4632G	102.44	Inf	-Inf	3	Vertical	120	2.70
2462MHz	Pass	AV	2.484G	51.03	54.00	-2.97	3	Vertical	120	2.70
2462MHz	Pass	PK	2.3672G	58.97	74.00	-15.03	3	Vertical	120	2.70
2462MHz	Pass	PK	2.4628G	114.92	Inf	-Inf	3	Vertical	120	2.70
2462MHz	Pass	PK	2.4852G	72.69	74.00	-1.31	3	Vertical	120	2.70
2462MHz	Pass	AV	2.3896G	46.47	54.00	-7.53	3	Horizontal	119	1.74
2462MHz	Pass	AV	2.4588G	102.62	Inf	-Inf	3	Horizontal	119	1.74
2462MHz	Pass	AV	2.484G	51.16	54.00	-2.84	3	Horizontal	119	1.74
2462MHz	Pass	PK	2.3808G	58.69	74.00	-15.31	3	Horizontal	119	1.74
2462MHz	Pass	PK	2.4592G	115.00	Inf	-Inf	3	Horizontal	119	1.74
2462MHz	Pass	PK	2.4856G	72.74	74.00	-1.26	3	Horizontal	119	1.74
2462MHz	Pass	AV	4.9335G	34.33	54.00	-19.67	3	Vertical	67	1.00
2462MHz	Pass	AV	7.3631G	38.72	54.00	-15.28	3	Vertical	75	2.56
2462MHz	Pass	PK	4.9274G	47.65	74.00	-26.35	3	Vertical	67	1.00
2462MHz	Pass	PK	7.3614G	52.20	74.00	-21.80	3	Vertical	75	2.56
2462MHz	Pass	AV	4.9314G	34.19	54.00	-19.81	3	Horizontal	211	1.50
2462MHz	Pass	AV	7.3648G	38.66	54.00	-15.34	3	Horizontal	77	1.31
2462MHz	Pass	PK	4.9303G	47.45	74.00	-26.55	3	Horizontal	211	1.50
2462MHz	Pass	PK	7.3899G	51.85	74.00	-22.15	3	Horizontal	77	1.31
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.388G	50.90	54.00	-3.10	3	Vertical	123	2.67
2422MHz	Pass	AV	2.4248G	99.67	Inf	-Inf	3	Vertical	123	2.67
2422MHz	Pass	AV	2.4848G	48.02	54.00	-5.98	3	Vertical	123	2.67
2422MHz	Pass	PK	2.39G	72.83	74.00	-1.17	3	Vertical	123	2.67
2422MHz	Pass	PK	2.432G	112.54	Inf	-Inf	3	Vertical	123	2.67
2422MHz	Pass	PK	2.484G	61.57	74.00	-12.43	3	Vertical	123	2.67
2422MHz	Pass	AV	2.3888G	50.30	54.00	-3.70	3	Horizontal	119	1.82
2422MHz	Pass	AV	2.4348G	99.62	Inf	-Inf	3	Horizontal	119	1.82
2422MHz	Pass	AV	2.4852G	47.99	54.00	-6.01	3	Horizontal	119	1.82
2422MHz	Pass	PK	2.39G	72.96	74.00	-1.04	3	Horizontal	119	1.82
2422MHz	Pass	PK	2.4176G	112.30	Inf	-Inf	3	Horizontal	119	1.82
2422MHz	Pass	PK	2.4852G	61.72	74.00	-12.28	3	Horizontal	119	1.82
2422MHz	Pass	AV	4.8548G	33.68	54.00	-20.32	3	Vertical	230	2.98
2422MHz	Pass	AV	7.2604G	38.77	54.00	-15.23	3	Vertical	233	1.50
2422MHz	Pass	PK	4.8565G	47.30	74.00	-26.70	3	Vertical	230	2.98
2422MHz	Pass	PK	7.25944G	52.29	74.00	-21.71	3	Vertical	233	1.50
2422MHz	Pass	AV	4.8609G	33.68	54.00	-20.32	3	Horizontal	256	2.67
2422MHz	Pass	AV	7.26356G	38.72	54.00	-15.28	3	Horizontal	244	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2422MHz	Pass	PK	4.8388G	47.34	74.00	-26.66	3	Horizontal	256	2.67
2422MHz	Pass	PK	7.27312G	52.00	74.00	-22.00	3	Horizontal	244	1.50
2427MHz	Pass	AV	2.3898G	51.06	54.00	-2.94	3	Vertical	122	2.66
2427MHz	Pass	AV	2.4346G	100.71	Inf	-Inf	3	Vertical	122	2.66
2427MHz	Pass	AV	2.485G	49.48	54.00	-4.52	3	Vertical	122	2.66
2427MHz	Pass	PK	2.3898G	72.78	74.00	-1.22	3	Vertical	122	2.66
2427MHz	Pass	PK	2.4354G	113.76	Inf	-Inf	3	Vertical	122	2.66
2427MHz	Pass	PK	2.4842G	65.11	74.00	-8.89	3	Vertical	122	2.66
2427MHz	Pass	AV	2.3874G	50.62	54.00	-3.38	3	Horizontal	119	1.81
2427MHz	Pass	AV	2.4374G	100.25	Inf	-Inf	3	Horizontal	119	1.81
2427MHz	Pass	AV	2.4846G	49.25	54.00	-4.75	3	Horizontal	119	1.81
2427MHz	Pass	PK	2.3898G	72.95	74.00	-1.05	3	Horizontal	119	1.81
2427MHz	Pass	PK	2.4178G	113.64	Inf	-Inf	3	Horizontal	119	1.81
2427MHz	Pass	PK	2.4842G	64.41	74.00	-9.59	3	Horizontal	119	1.81
2437MHz	Pass	AV	2.3886G	50.96	54.00	-3.04	3	Vertical	123	2.64
2437MHz	Pass	AV	2.4334G	101.43	Inf	-Inf	3	Vertical	123	2.64
2437MHz	Pass	AV	2.4858G	52.23	54.00	-1.77	3	Vertical	123	2.64
2437MHz	Pass	PK	2.389G	71.53	74.00	-2.47	3	Vertical	123	2.64
2437MHz	Pass	PK	2.4358G	114.86	Inf	-Inf	3	Vertical	123	2.64
2437MHz	Pass	PK	2.4835G	72.06	74.00	-1.94	3	Vertical	123	2.64
2437MHz	Pass	AV	2.3886G	50.45	54.00	-3.55	3	Horizontal	119	1.50
2437MHz	Pass	AV	2.4386G	100.27	Inf	-Inf	3	Horizontal	119	1.50
2437MHz	Pass	AV	2.4862G	51.55	54.00	-2.45	3	Horizontal	119	1.50
2437MHz	Pass	PK	2.389G	71.66	74.00	-2.34	3	Horizontal	119	1.50
2437MHz	Pass	PK	2.4362G	114.09	Inf	-Inf	3	Horizontal	119	1.50
2437MHz	Pass	PK	2.4838G	72.35	74.00	-1.65	3	Horizontal	119	1.50
2437MHz	Pass	AV	4.8648G	33.70	54.00	-20.30	3	Vertical	0	1.67
2437MHz	Pass	AV	7.3255G	38.91	54.00	-15.09	3	Vertical	146	2.54
2437MHz	Pass	PK	4.8673G	47.26	74.00	-26.74	3	Vertical	0	1.67
2437MHz	Pass	PK	7.3118G	51.90	74.00	-22.10	3	Vertical	146	2.54
2437MHz	Pass	AV	4.8624G	33.65	54.00	-20.35	3	Horizontal	334	1.94
2437MHz	Pass	AV	7.3252G	38.98	54.00	-15.02	3	Horizontal	207	1.50
2437MHz	Pass	PK	4.8688G	47.62	74.00	-26.38	3	Horizontal	334	1.94
2437MHz	Pass	PK	7.3317G	52.33	74.00	-21.67	3	Horizontal	207	1.50
2447MHz	Pass	AV	2.3898G	49.55	54.00	-4.45	3	Vertical	114	2.46
2447MHz	Pass	AV	2.4526G	101.88	Inf	-Inf	3	Vertical	114	2.46
2447MHz	Pass	AV	2.4858G	52.87	54.00	-1.13	3	Vertical	114	2.46
2447MHz	Pass	PK	2.3898G	67.07	74.00	-6.93	3	Vertical	114	2.46
2447MHz	Pass	PK	2.4518G	115.02	Inf	-Inf	3	Vertical	114	2.46
2447MHz	Pass	PK	2.4898G	72.51	74.00	-1.49	3	Vertical	114	2.46
2447MHz	Pass	AV	2.3894G	47.85	54.00	-6.15	3	Horizontal	110	1.58
2447MHz	Pass	AV	2.455G	97.98	Inf	-Inf	3	Horizontal	110	1.58
2447MHz	Pass	AV	2.491G	50.14	54.00	-3.86	3	Horizontal	110	1.58
2447MHz	Pass	PK	2.389G	63.76	74.00	-10.24	3	Horizontal	110	1.58
2447MHz	Pass	PK	2.4602G	111.56	Inf	-Inf	3	Horizontal	110	1.58
2447MHz	Pass	PK	2.491G	68.87	74.00	-5.13	3	Horizontal	110	1.58
2452MHz	Pass	AV	2.3896G	48.48	54.00	-5.52	3	Vertical	123	2.54
2452MHz	Pass	AV	2.44G	100.57	Inf	-Inf	3	Vertical	123	2.54
2452MHz	Pass	AV	2.4924G	50.41	54.00	-3.59	3	Vertical	123	2.54
2452MHz	Pass	PK	2.3896G	63.32	74.00	-10.68	3	Vertical	123	2.54
2452MHz	Pass	PK	2.4596G	113.76	Inf	-Inf	3	Vertical	123	2.54
2452MHz	Pass	PK	2.4972G	71.45	74.00	-2.55	3	Vertical	123	2.54
2452MHz	Pass	AV	2.39G	48.37	54.00	-5.63	3	Horizontal	119	1.72
2452MHz	Pass	AV	2.46G	100.47	Inf	-Inf	3	Horizontal	119	1.72
2452MHz	Pass	AV	2.4835G	50.59	54.00	-3.41	3	Horizontal	119	1.72
2452MHz	Pass	PK	2.384G	63.90	74.00	-10.10	3	Horizontal	119	1.72
2452MHz	Pass	PK	2.4596G	114.22	Inf	-Inf	3	Horizontal	119	1.72
2452MHz	Pass	PK	2.4972G	72.15	74.00	-1.85	3	Horizontal	119	1.72
2452MHz	Pass	AV	4.9062G	33.57	54.00	-20.43	3	Vertical	188	2.26
2452MHz	Pass	AV	7.361G	38.53	54.00	-15.47	3	Vertical	264	2.80
2452MHz	Pass	PK	4.902G	47.56	74.00	-26.44	3	Vertical	188	2.26
2452MHz	Pass	PK	7.3488G	52.12	74.00	-21.88	3	Vertical	264	2.80



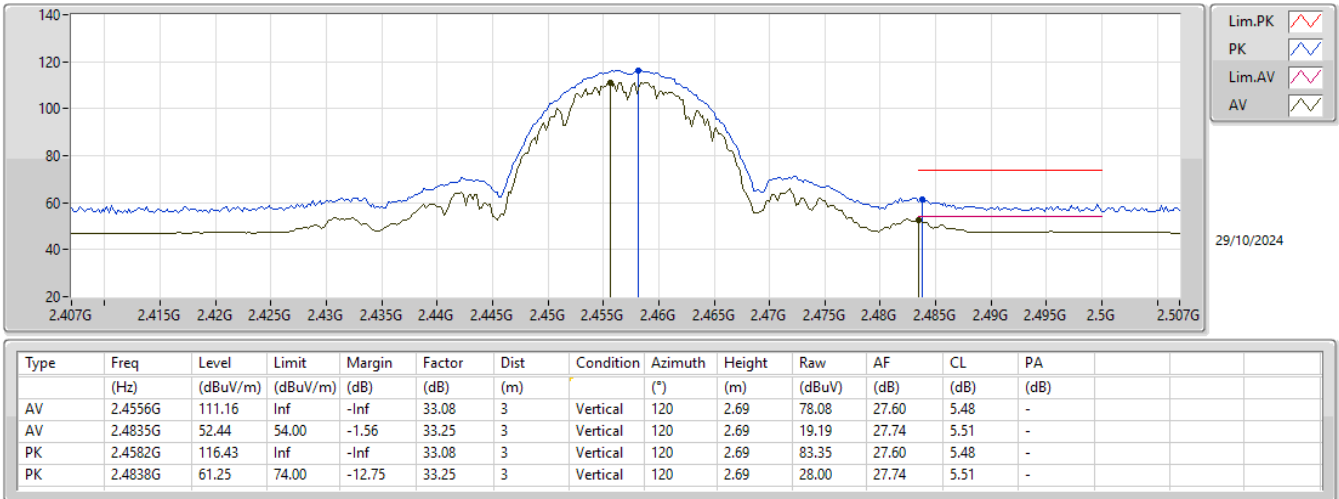
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2452MHz	Pass	AV	4.9112G	33.52	54.00	-20.48	3	Horizontal	329	1.67
2452MHz	Pass	AV	7.34868G	38.50	54.00	-15.50	3	Horizontal	264	2.69
2452MHz	Pass	PK	4.90764G	47.72	74.00	-26.28	3	Horizontal	329	1.67
2452MHz	Pass	PK	7.34624G	52.33	74.00	-21.67	3	Horizontal	264	2.69

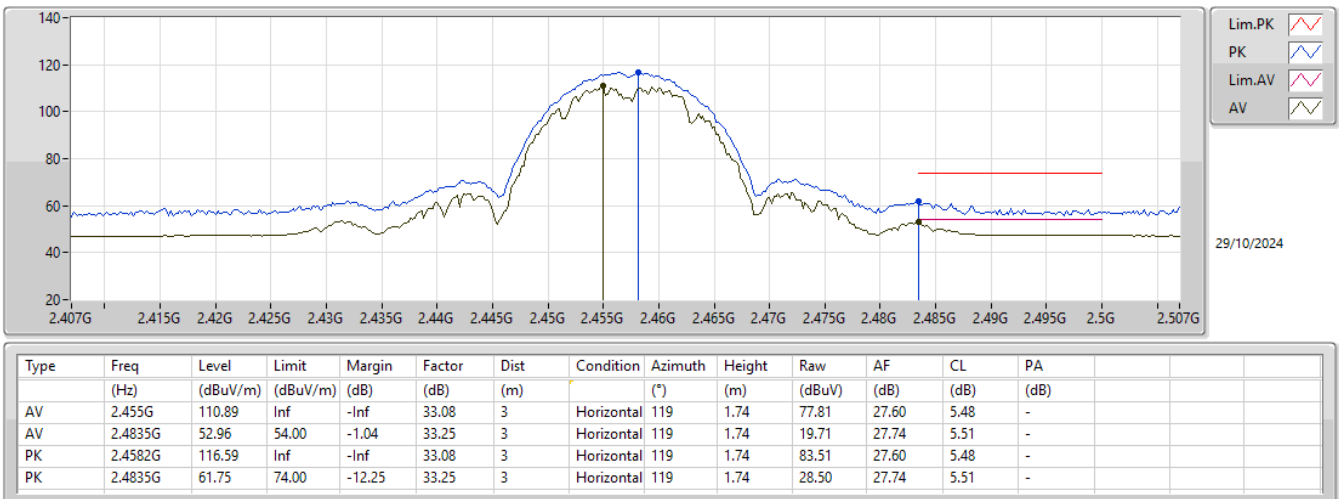
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX



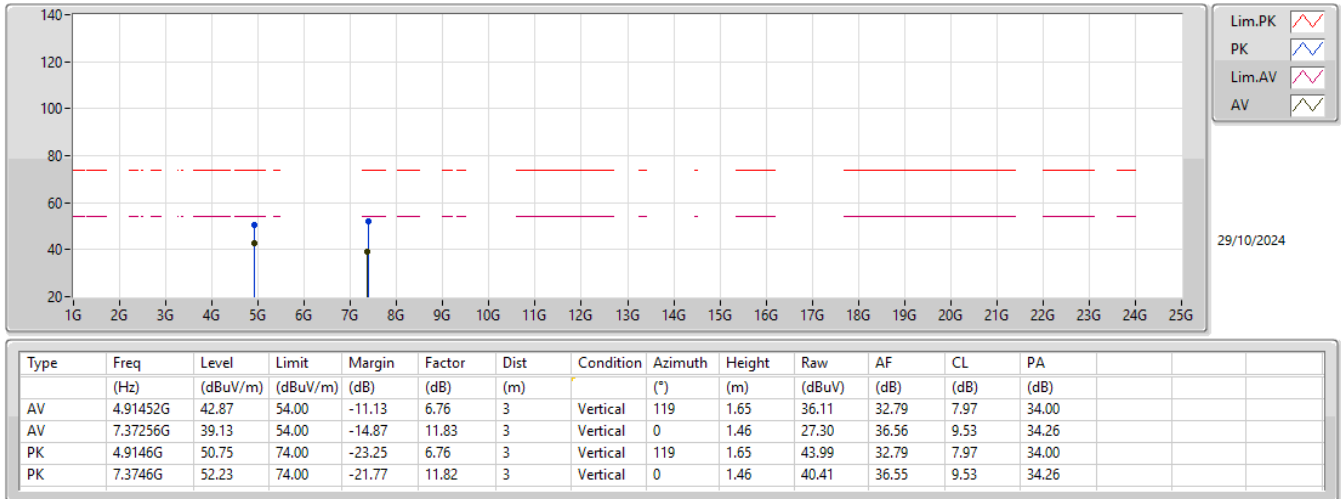
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX



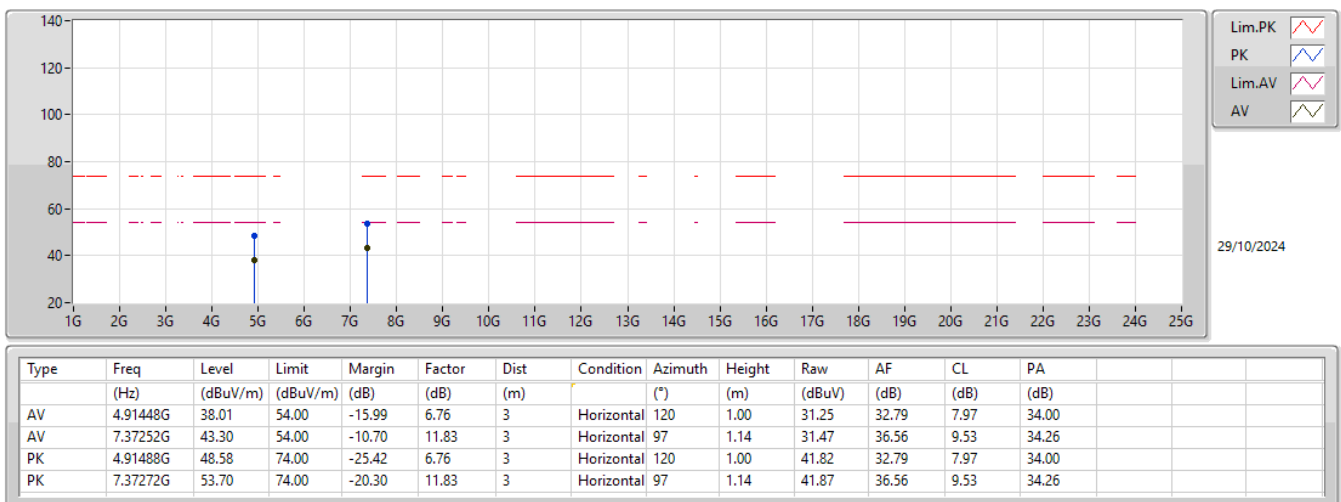
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX



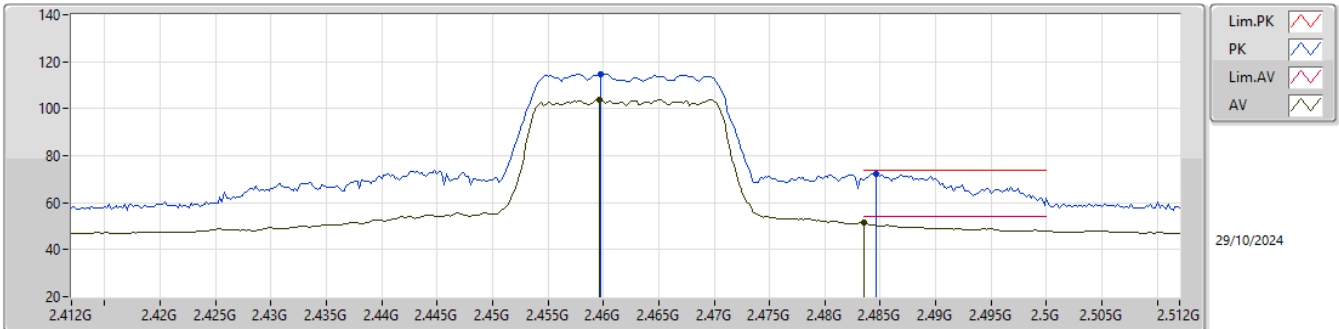
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX



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

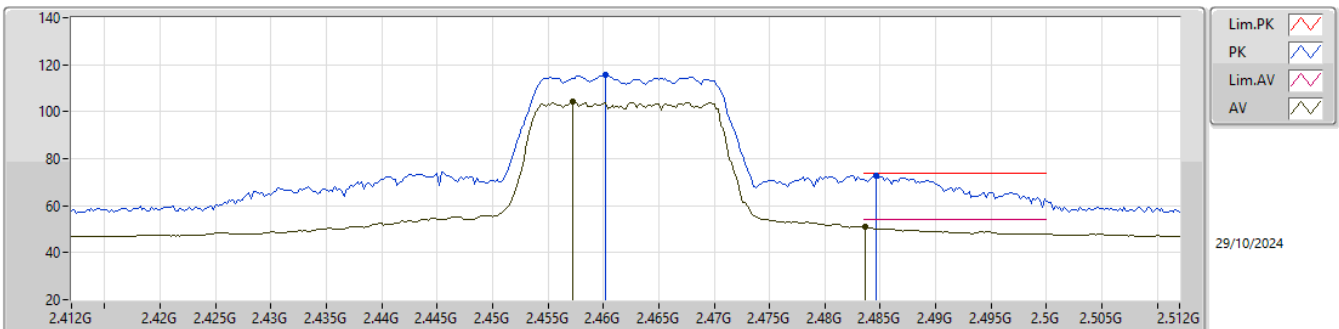
2462MHz_TX



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	2.4596G	104.00	Inf	-Inf	33.08	3	Vertical	123	2.68	70.92	27.60	5.48	-
AV	2.4835G	51.33	54.00	-2.67	33.25	3	Vertical	123	2.68	18.08	27.74	5.51	-
PK	2.4598G	114.83	Inf	-Inf	33.08	3	Vertical	123	2.68	81.75	27.60	5.48	-
PK	2.4846G	72.47	74.00	-1.53	33.27	3	Vertical	123	2.68	39.20	27.75	5.52	-

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

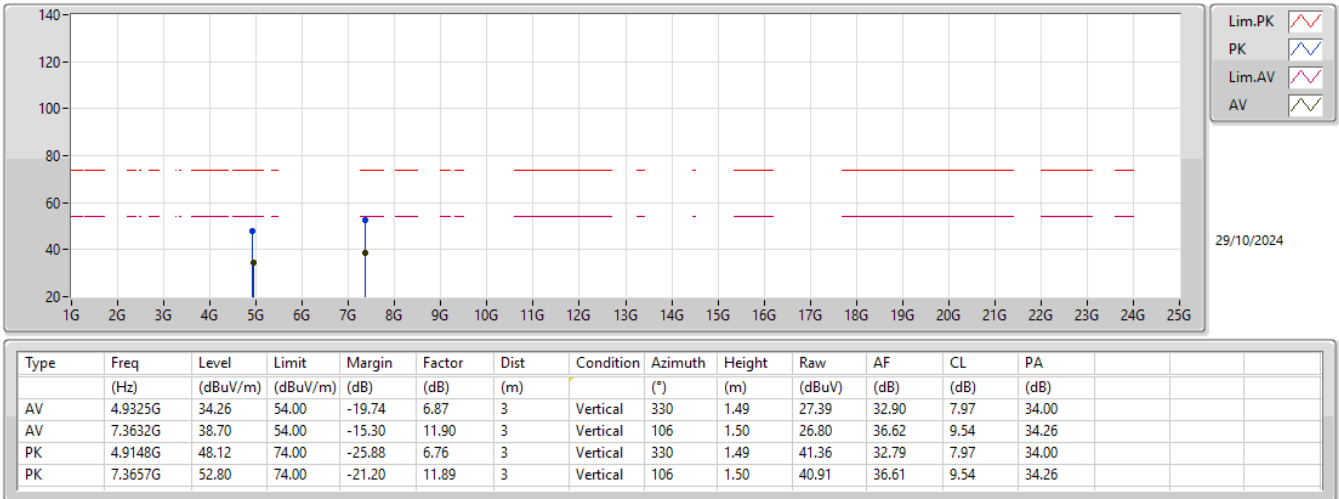
2462MHz_TX



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	2.4572G	104.11	Inf	-Inf	33.08	3	Horizontal	119	1.74	71.03	27.60	5.48	-
AV	2.4836G	51.06	54.00	-2.94	33.25	3	Horizontal	119	1.74	17.81	27.74	5.51	-
PK	2.4602G	115.54	Inf	-Inf	33.09	3	Horizontal	119	1.74	82.45	27.60	5.49	-
PK	2.4846G	72.90	74.00	-1.10	33.27	3	Horizontal	119	1.74	39.63	27.75	5.52	-

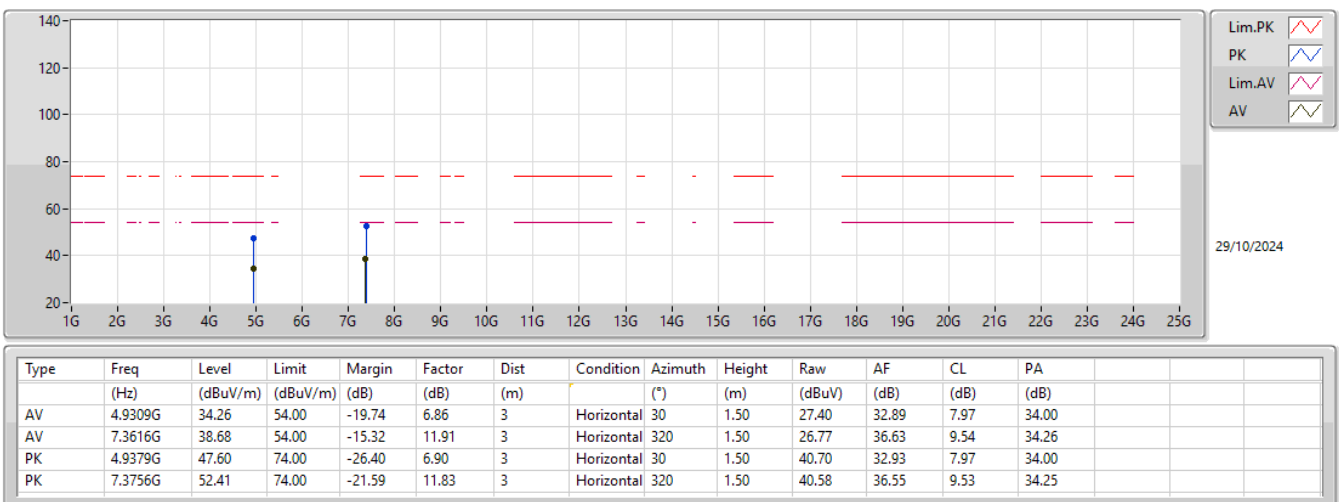
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



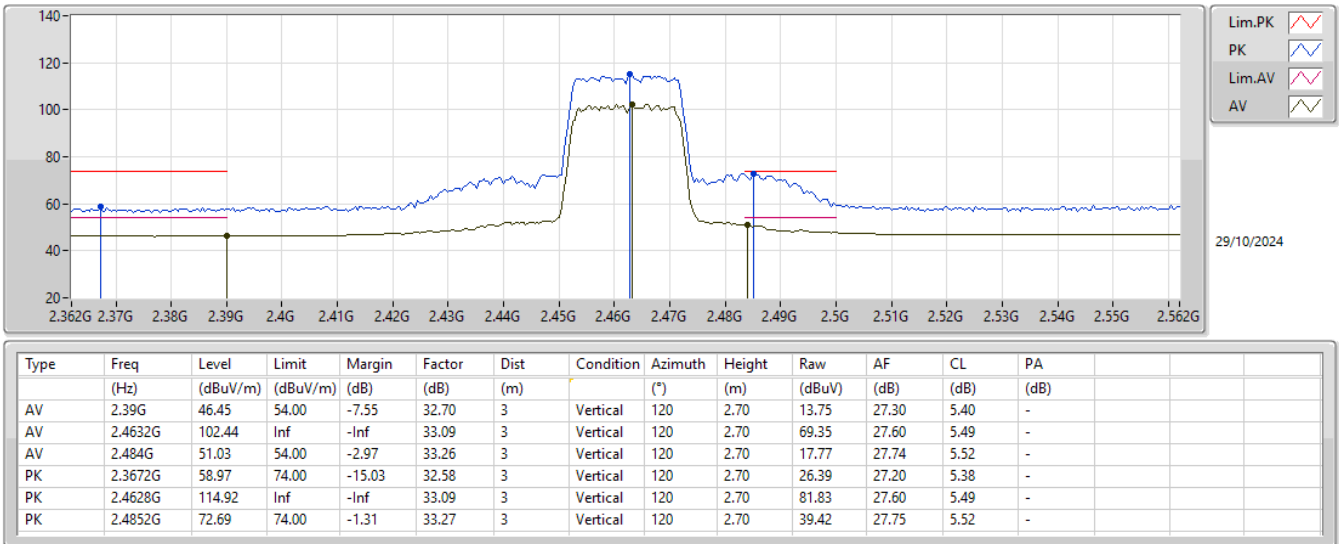
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



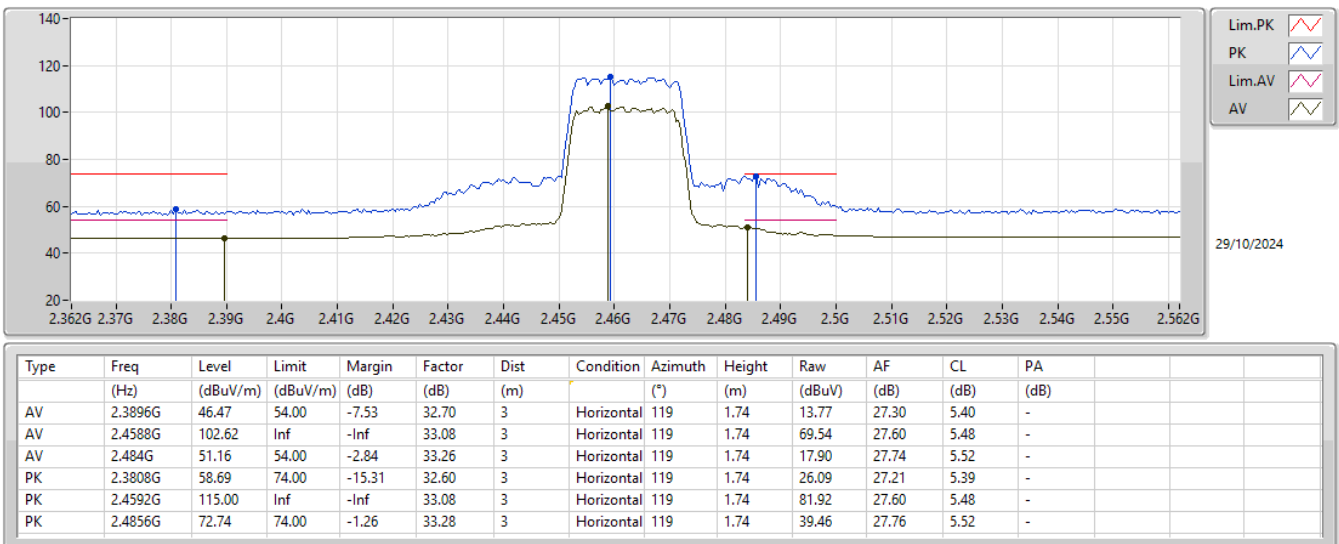
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



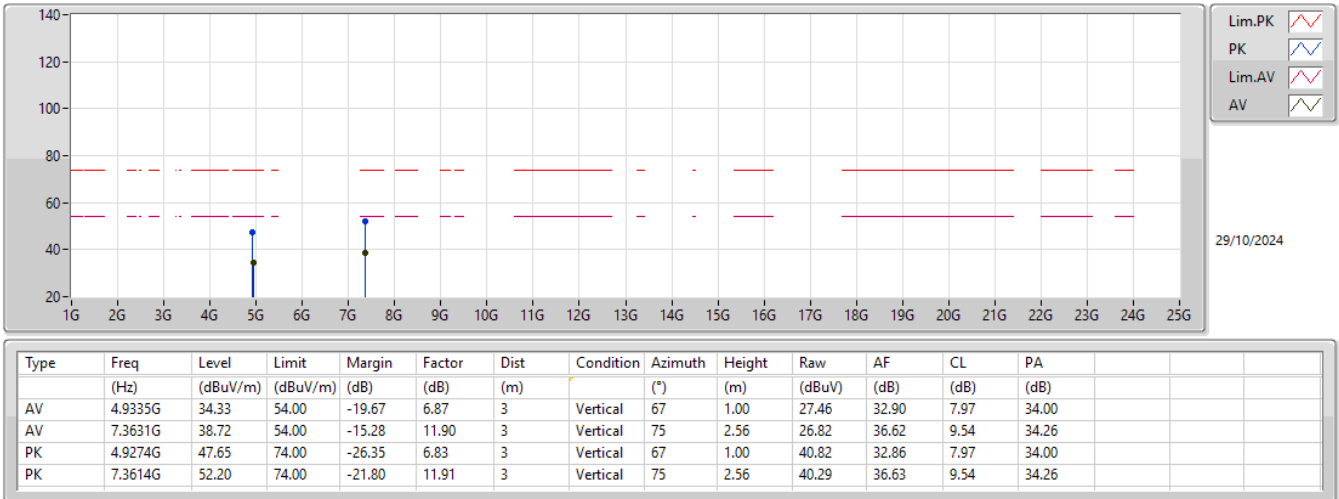
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



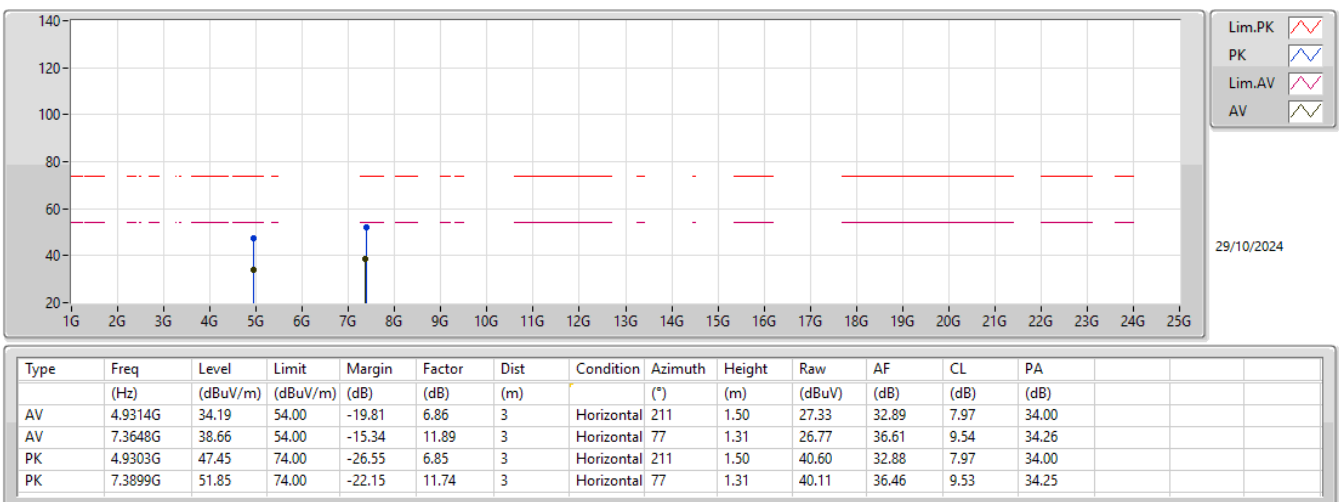
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



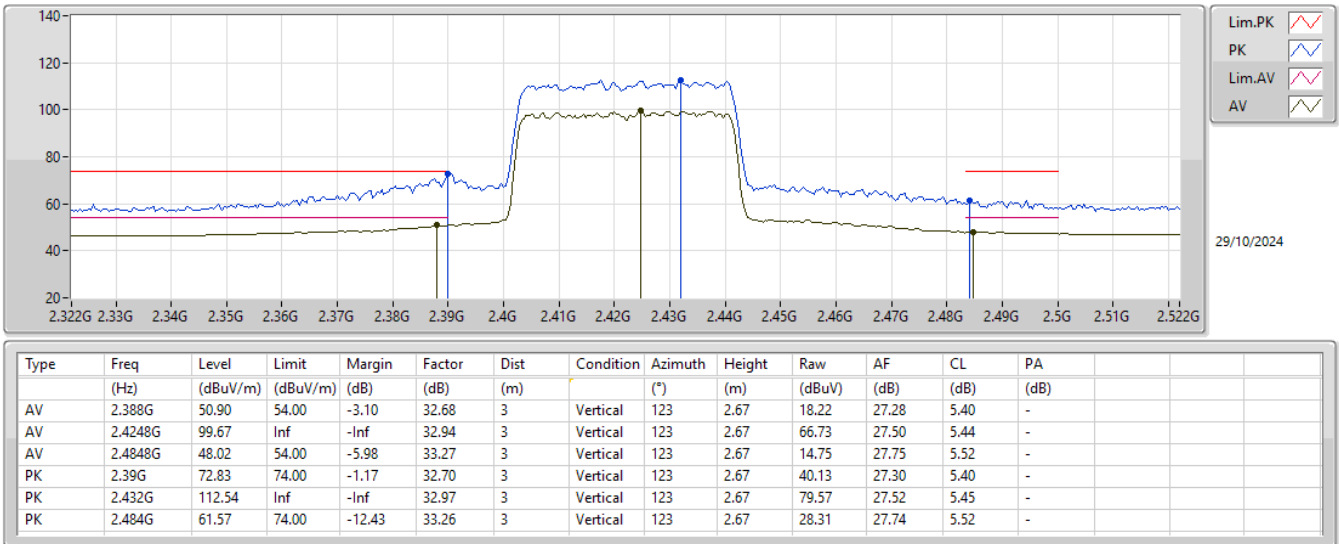
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



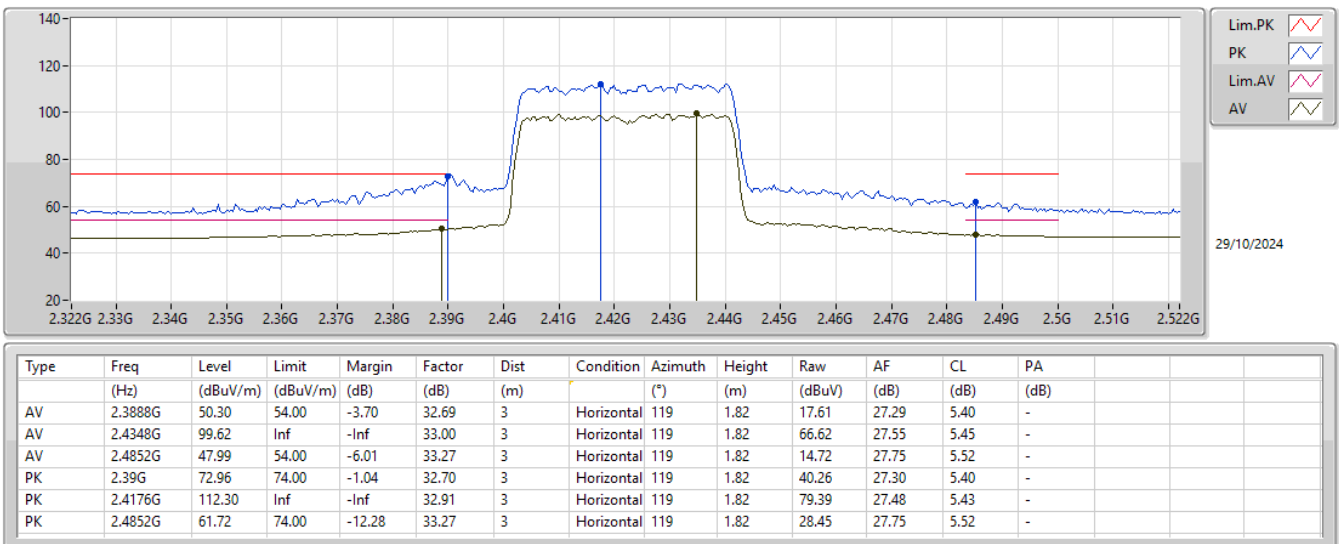
2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2422MHz_TX



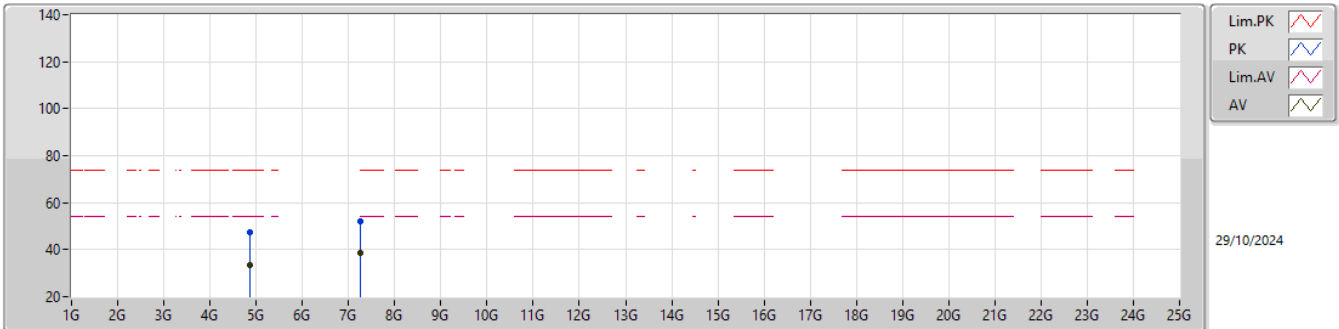
2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2422MHz_TX



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

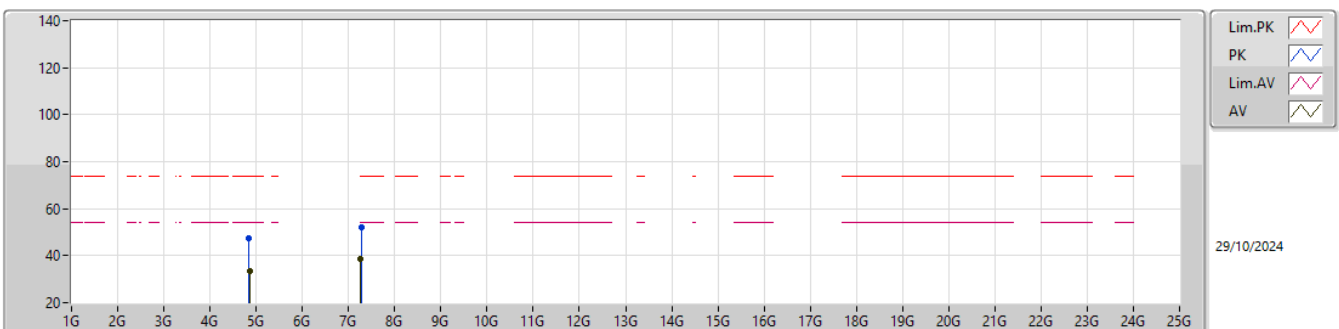
2422MHz_TX



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	4.8548G	33.68	54.00	-20.32	6.50	3	Vertical	230	2.98	27.18	32.52	7.97	33.99
AV	7.2604G	38.77	54.00	-15.23	12.11	3	Vertical	233	1.50	26.66	36.88	9.55	34.32
PK	4.8565G	47.30	74.00	-26.70	6.51	3	Vertical	230	2.98	40.79	32.53	7.97	33.99
PK	7.25944G	52.29	74.00	-21.71	12.11	3	Vertical	233	1.50	40.18	36.88	9.55	34.32

2.4-2.4835GHz_802.11be EHT40_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	4.8609G	33.68	54.00	-20.32	6.52	3	Horizontal	256	2.67	27.16	32.54	7.97	33.99
AV	7.26356G	38.72	54.00	-15.28	12.10	3	Horizontal	244	1.50	26.62	36.87	9.55	34.32
PK	4.8388G	47.34	74.00	-26.66	6.41	3	Horizontal	256	2.67	40.93	32.43	7.96	33.98
PK	7.27312G	52.00	74.00	-22.00	12.08	3	Horizontal	244	1.50	39.92	36.85	9.55	34.32