

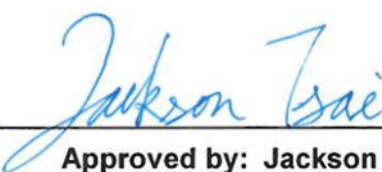


FCC Radio Test Report

FCC ID : Q6G-AP340
Equipment : Access Point
Brand Name : WatchGuard
Model Name : AP340, AP140
Applicant : WatchGuard Technologies, Inc.
255 S. King Street, Suite 1100 Seattle,
WA 98104, USA
Manufacturer : WatchGuard Technologies, Inc.
255 S. King Street, Suite 1100 Seattle,
WA 98104, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 24, 2025, and testing was started from Mar. 12, 2025 and completed on Apr. 15, 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: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	9
1.3 Testing Location Information	9
1.4 Measurement Uncertainty	9
2 TEST CONFIGURATION OF EUT.....	10
2.1 Test Channel Mode	10
2.2 The Worst Case Measurement Configuration	12
2.3 Accessories	13
2.4 Support Equipment.....	13
2.5 Test Setup Diagram	14
3 TRANSMITTER TEST RESULT	15
3.1 AC Power-line Conducted Emissions	15
3.2 DTS Bandwidth.....	17
3.3 Maximum Conducted Output Power	18
3.4 Power Spectral Density	20
3.5 Emissions in Non-restricted Frequency Bands	21
3.6 Emissions in Restricted Frequency Bands.....	22
4 TEST EQUIPMENT AND CALIBRATION DATA.....	26
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	

[illegible]

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

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

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

Radio 3 (Scan radio) is only RX function.

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]

Non-Beamforming

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

Beamforming

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11be EHT20-BF	20	2TX
2.4-2.4835GHz	802.11be EHT40-BF	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ 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

Model Name : AP140

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Enrack	7102A1222000	PIFA	I-Pex	2.4G	Radio 1
2	Enrack	7102A1223000	PIFA	I-Pex	2.4G	
3	Enrack	7102A1224000	PIFA	I-Pex	5G	Radio 2
4	Enrack	7102A1225000	PIFA	I-Pex	5G	
5	AWAN	7102A0952000	Alford Loop	I-Pex	6G	
6	AWAN	7102A0951000	Alford Loop	I-Pex	6G	

Ant.	Port	Gain (dBi)		
		2.4G	5G	6G
1	1	4.4	-	-
2	2	4.0	-	-
3	1	-	5.6	-
4	2	-	4.6	-
5	1	-	-	5.0
6	2	-	-	5.5

Model Name : AP340

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Enrack	7102A1222000	PIFA	I-Pex	2.4G	Radio 1
2	Enrack	7102A1223000	PIFA	I-Pex	2.4G	
3	Enrack	7102A1224000	PIFA	I-Pex	5G	Radio 2
4	Enrack	7102A1225000	PIFA	I-Pex	5G	
5	AWAN	7102A0952000	Alford Loop	I-Pex	6G	
6	AWAN	7102A0951000	Alford Loop	I-Pex	6G	
7	Enrack	7102A1355000	PIFA	I-Pex	2.4G/5G/6G	Scan Radio 3 (RX)
8	Enrack	7102A1356000	PIFA	I-Pex	2.4G/5G/6G	

Ant.	Port	Gain (dBi)		
		2.4G	5G	6G
1	1	4.4	-	-
2	2	4.4	-	-
3	1	-	5.6	-
4	2	-	5.1	-
5	1	-	-	5.0
6	2	-	-	5.5
7	1	4.2	5.2	5.3
8	2	4.2	5.1	4.9

For 2.4GHz function:

For IEEE 802.11 a/g/n/VHT/ax/be mode (2TX/2RX) < **Radio 1** >

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

For IEEE 802.11 b/g/n/VHT/ax mode (2RX) < **Radio 3** >

Ant. 7 (port 1) and Ant. 8 (port 2) could receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode(2TX/2RX) < **Radio 2** >

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

For IEEE 802.11 a/n/ac/ax mode (2RX) < **Radio 3** >

Ant. 7 (port 1) and Ant. 8 (port 2) could receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode(2TX/2RX) < **Radio 2** >

Ant. 5 (port 1) and Ant. 6 (port 2) could receive simultaneously.

For IEEE 802.11 ax mode (2RX) < **Radio 3** >

Ant. 7 (port 1) and Ant. 8 (port 2) could receive simultaneously.

Note 1: Directional gain information

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / PoE		
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 Table for Multiple Listing

Model Name	Description
AP340	The difference between AP340 and 140 is that AP340 have a RX scanning radio.
AP140	

Note: The model AP340 was measured during the test.

1.1.5 Mode Test Duty Cycle

Non-Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss1,(1Mbps)_2TX	0.999	0.01	17.988m	10Hz (DC>=0.98)
802.11g_Nss1,(6Mbps)_2TX	0.993	0.03	1.981m	10Hz (DC>=0.98)
802.11be EHT20_Nss1,(MCS0)_2TX	0.994	0.03	5.456m	10Hz (DC>=0.98)
802.11be EHT40_Nss1,(MCS0)_2TX	0.978	0.1	5.456m	200

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

Beamforming

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11be EHT20-BF_Nss1,(MCS0)_2TX	0.994	0.03	5.456m	10Hz (DC>=0.98)
802.11be EHT40-BF_Nss1,(MCS0)_2TX	0.978	0.1	5.456m	200

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

1.2 Testing Applied Standards

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

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CON04-HY	Daniel Lin	22.5~25.4°C / 52~55%	28/Mar/2025
RF Conducted	TH07-HY	Raven Chien	22.4~22.9°C / 47~52%	20/Mar/2025~15/Apr/2025
Radiated	03CH02-HY	Daniel Lin	21.1~24.2°C / 55~59%	12/Mar/2025~15/Mar/2025
Radiated (Co-location)	03CH03-HY	Simon Cheng	21.1~24.2°C / 55~59%	15/Mar/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			

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	qdart_conn.win.1.0_installer_00099
------------------------------	------------------------------------

Non-Beamforming

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	22
2417MHz	22.5
2437MHz	23.5
2457MHz	22.5
2462MHz	22
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	19
2417MHz	19.5
2437MHz	22
2457MHz	20.5
2462MHz	19
802.11be EHT20_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	19
2437MHz	21.5
2457MHz	18
2462MHz	17.5
802.11be EHT40_Nss1,(MCS0)_2TX	-
2422MHz	17
2437MHz	16.5
2452MHz	17

**Beamforming**

Mode	Power Setting
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-
2412MHz	17.5
2417MHz	19
2437MHz	21.5
2457MHz	18
2462MHz	17.5
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-
2422MHz	17
2437MHz	16.5
2452MHz	17

2.2 The Worst Case Measurement Configuration

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

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Radio 1(2.4G) + Radio 2(5G) + Radio 2(6G)
Refer to Sporton Test Report No.: FA421504-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
Bracket	Brand Name	Dragonjet	Part Number	6301A6543000

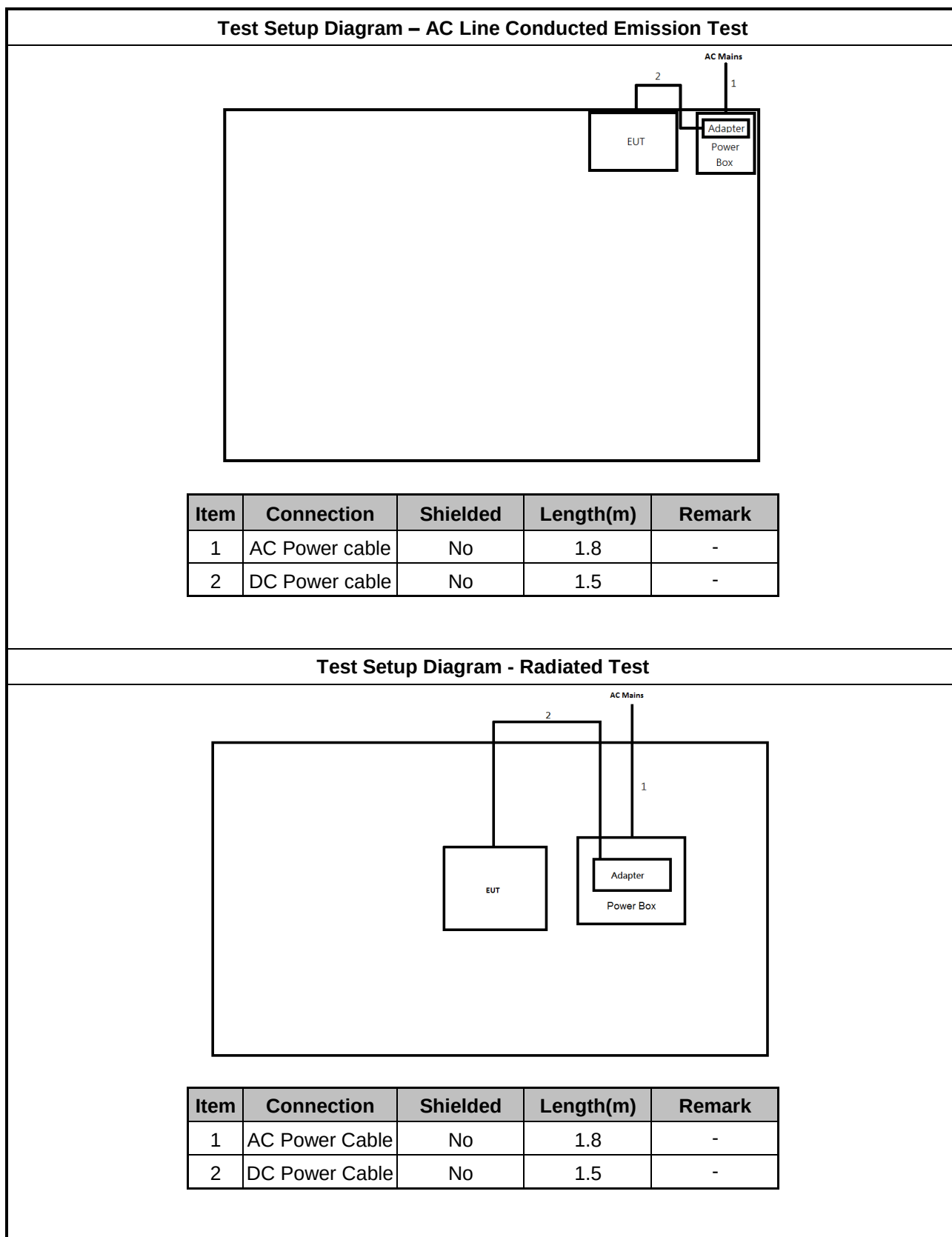
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC adapter	ASIAN	WA-30P12R	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	AC Adapter	ASIAN	WA-30P12R	-	Provided by Customer

2.5 Test Setup Diagram



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

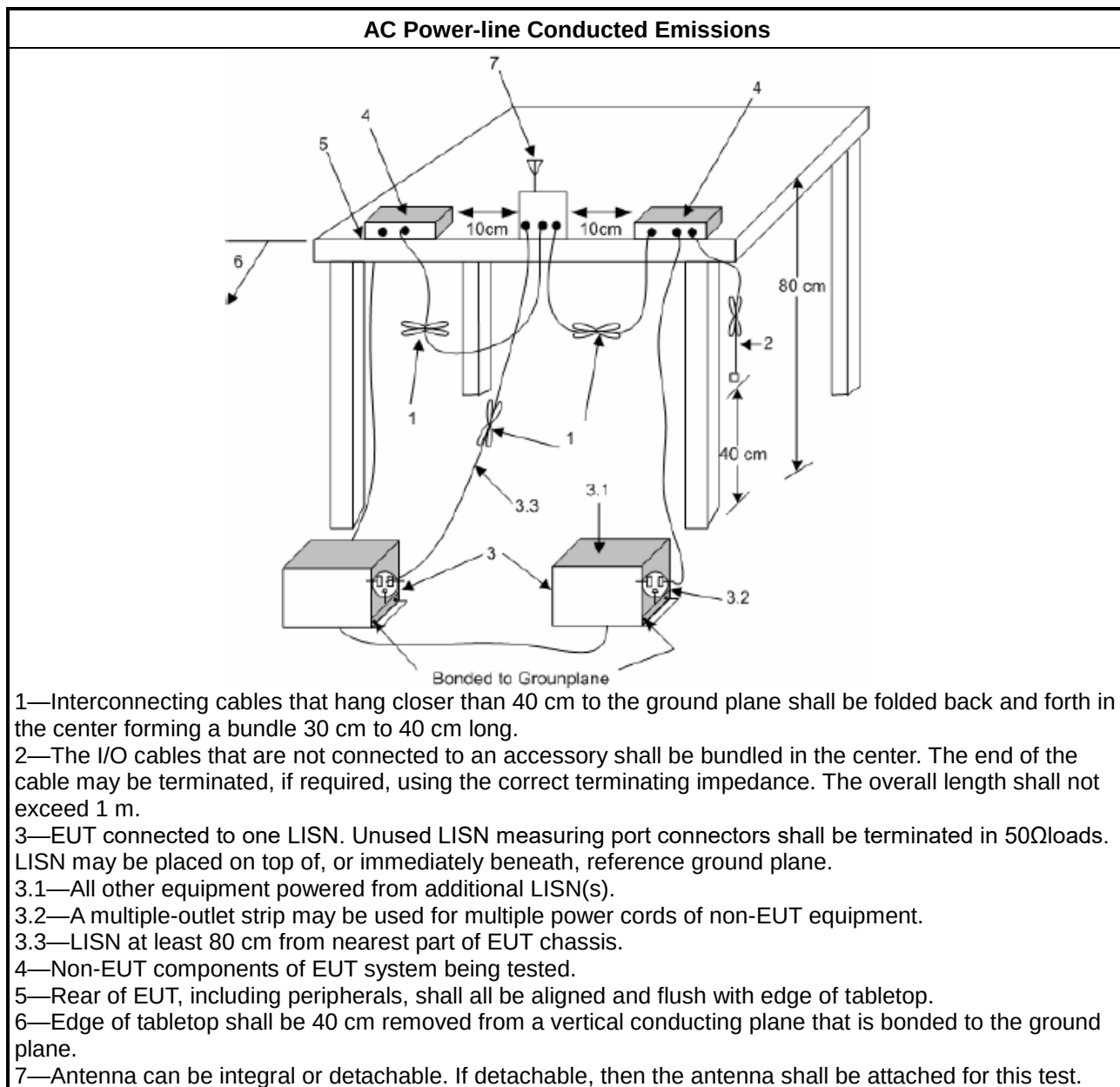
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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.

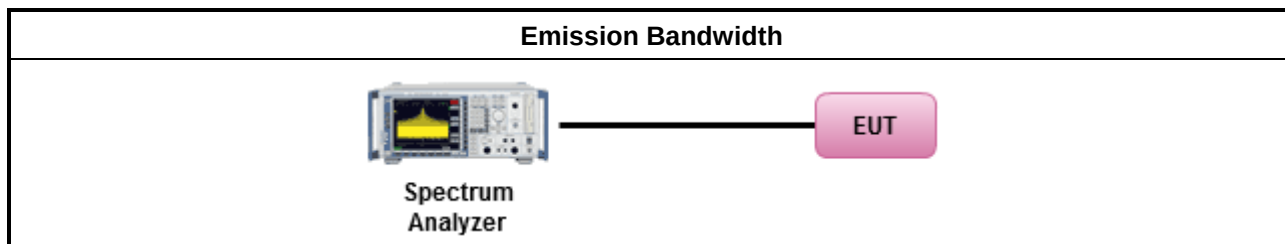
3.2.2 Measuring Instruments

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.	

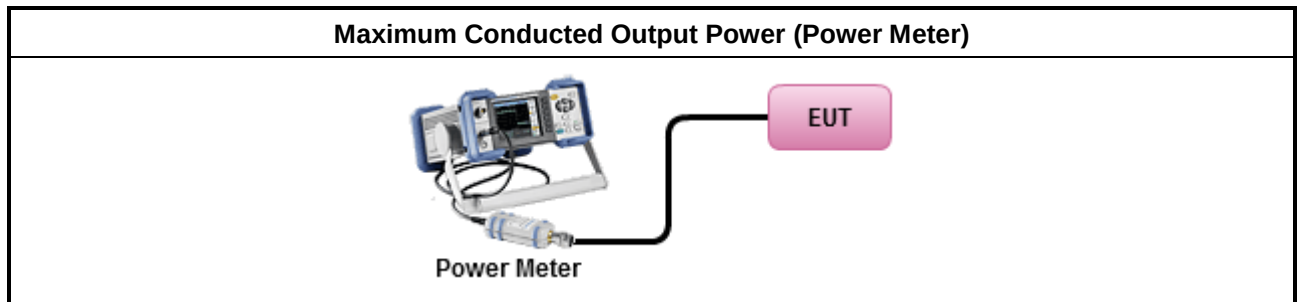
3.3.2 Measuring Instruments

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

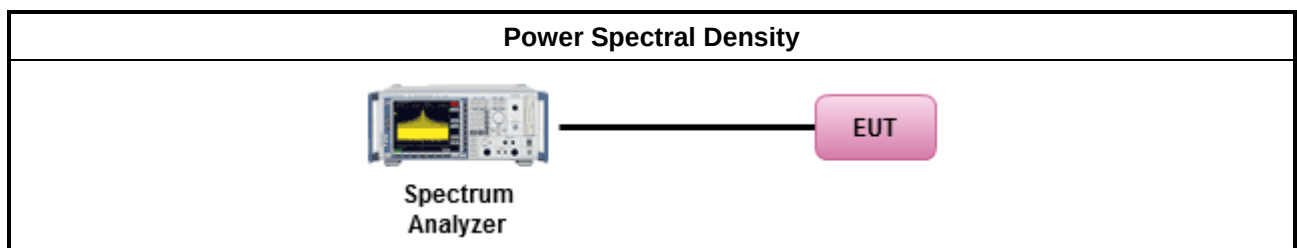
3.4.2 Measuring Instruments

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.	

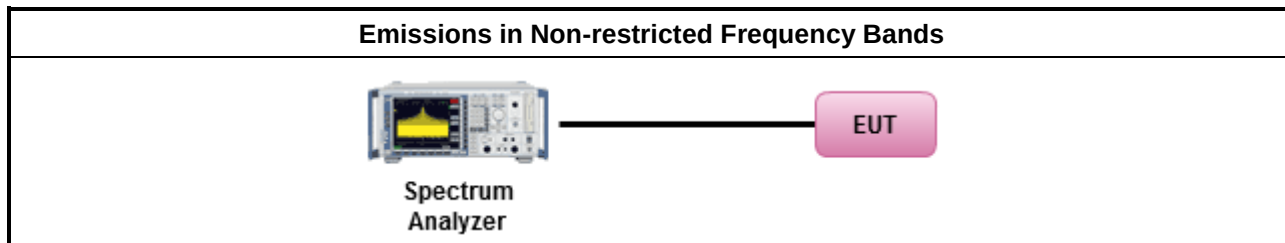
3.5.2 Measuring Instruments

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

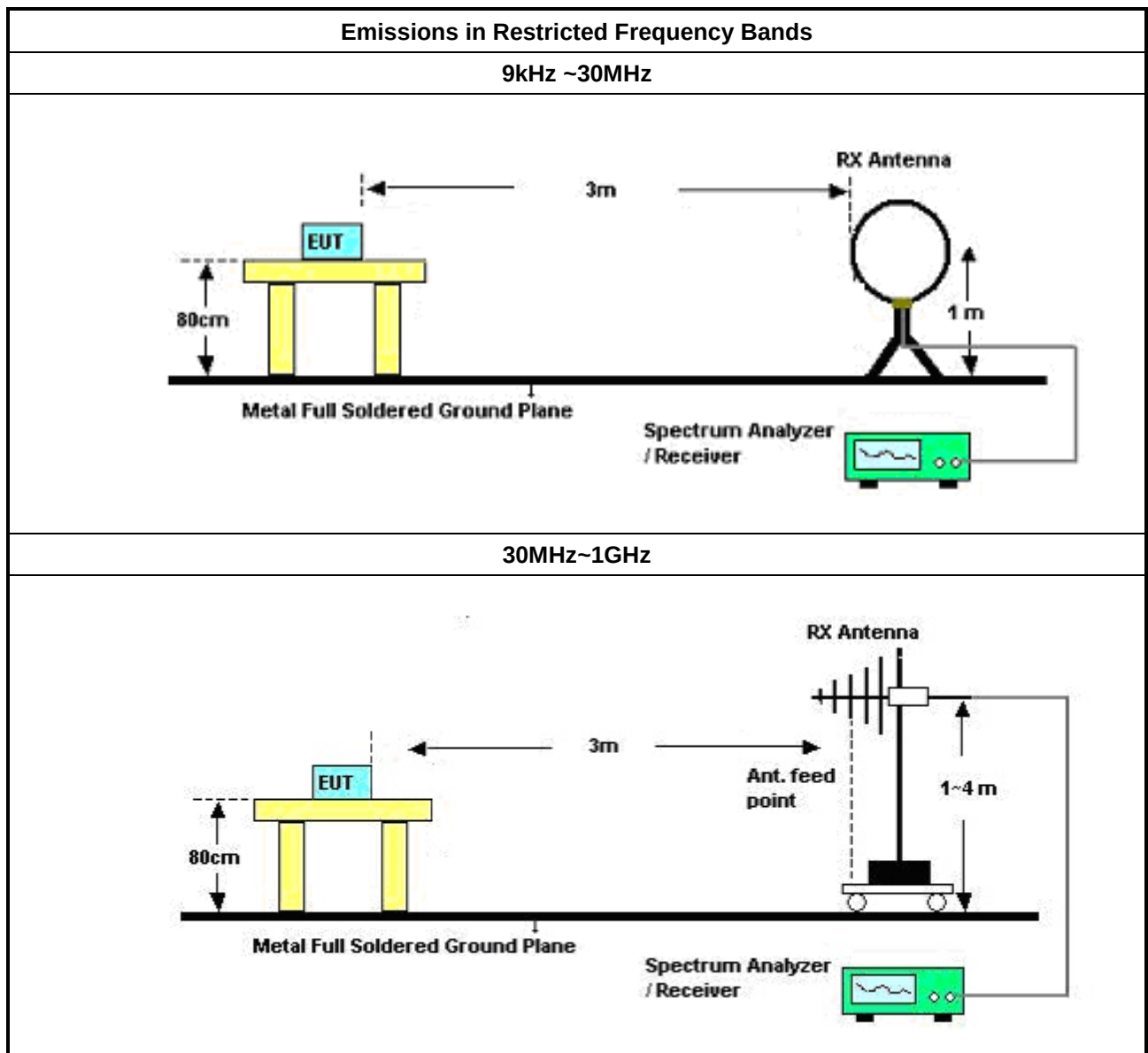
Test Method	
	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted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

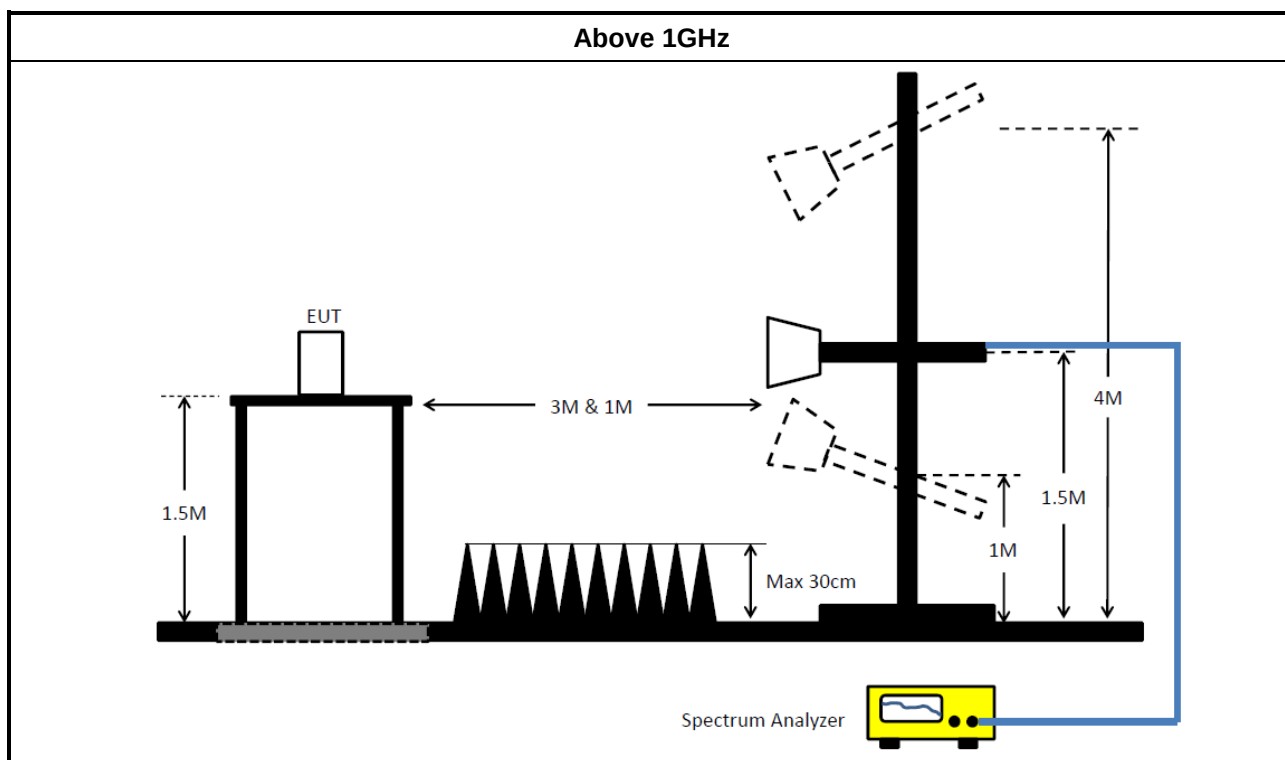
3.6.4 Measurement Results Calculation

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	101578	9kHz ~ 30MHz	11/Oct/2024	10/Oct/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
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 Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	14/Jul/2024	13/Jul/2025
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	21/Mar/2024	20/Mar/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	26/Aug/2024	25/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	MVE	400LL+ SN 200207	03CH02-cable-02	9kHz~30MHz	26/Nov/2024	25/Nov/2025
RF Cable	MVE	400LL+ SN 200207	03CH02-cable-02	30MHz~1GHz	26/Nov/2024	25/Nov/2025
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2024	28/Jun/2025
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH03-HY)**

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
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	04/Jun/2024	03/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable -03	1GHz~40GHz	19/Feb/2025	20/Feb/2026
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
SENSE-EMI	Sporton	V5.11.9	NA	NA	NA	NA

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	23/Jan/2025	22/Jan/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_DTS	Sporton	V5.11.23	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

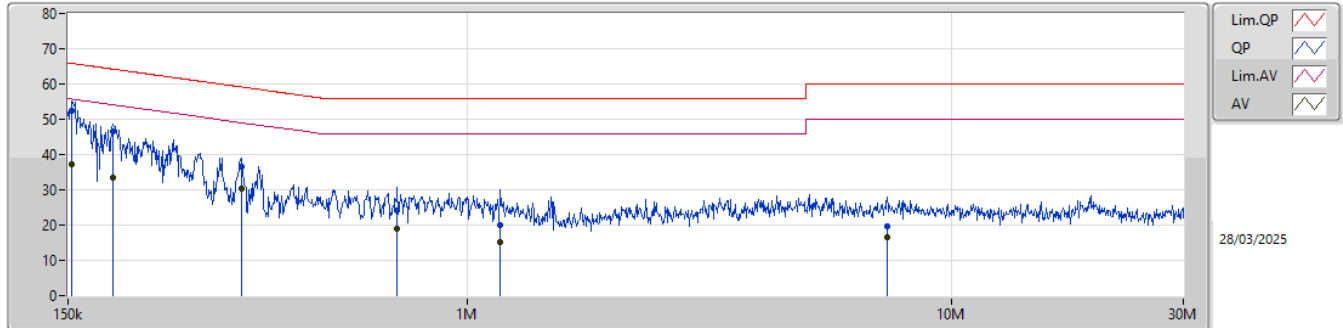
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.024k	52.54	65.83	-13.29	Line

Result

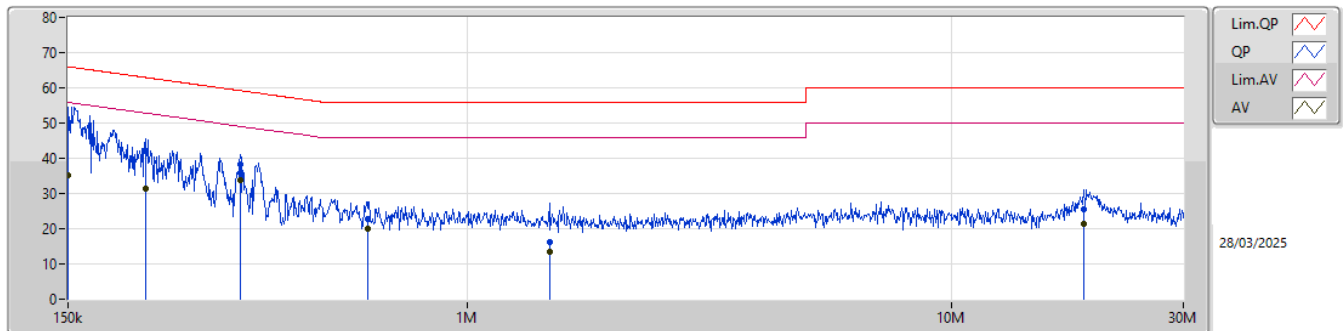
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.024k	52.54	65.83	-13.29	Line
Mode 1	Pass	AV	153.024k	37.30	55.83	-18.53	Line
Mode 1	Pass	QP	186.085k	46.38	64.20	-17.82	Line
Mode 1	Pass	AV	186.085k	33.37	54.20	-20.83	Line
Mode 1	Pass	QP	341.378k	36.62	59.17	-22.55	Line
Mode 1	Pass	AV	341.378k	30.23	49.17	-18.94	Line
Mode 1	Pass	QP	717.31k	23.98	56.00	-32.02	Line
Mode 1	Pass	AV	717.31k	19.10	46.00	-26.90	Line
Mode 1	Pass	QP	1.167M	19.95	56.00	-36.05	Line
Mode 1	Pass	AV	1.167M	15.21	46.00	-30.79	Line
Mode 1	Pass	QP	7.353M	19.50	60.00	-40.50	Line
Mode 1	Pass	AV	7.353M	16.51	50.00	-33.49	Line
Mode 1	Pass	QP	150k	50.34	66.00	-15.66	Neutral
Mode 1	Pass	AV	150k	35.19	56.00	-20.81	Neutral
Mode 1	Pass	QP	216.567k	41.90	62.94	-21.04	Neutral
Mode 1	Pass	AV	216.567k	31.28	52.94	-21.66	Neutral
Mode 1	Pass	QP	340.018k	38.34	59.19	-20.85	Neutral
Mode 1	Pass	AV	340.018k	33.69	49.19	-15.50	Neutral
Mode 1	Pass	QP	621.288k	22.66	56.00	-33.34	Neutral
Mode 1	Pass	AV	621.288k	20.12	46.00	-25.88	Neutral
Mode 1	Pass	QP	1.477M	16.29	56.00	-39.71	Neutral
Mode 1	Pass	AV	1.477M	13.48	46.00	-32.52	Neutral
Mode 1	Pass	QP	18.713M	25.36	60.00	-34.64	Neutral
Mode 1	Pass	AV	18.713M	21.22	50.00	-28.78	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	153.024k	52.54	65.83	-13.29	19.95	Line	-	32.59	9.97	0.01	9.97
AV	153.024k	37.30	55.83	-18.53	19.95	Line	-	17.35	9.97	0.01	9.97
QP	186.085k	46.38	64.20	-17.82	20.09	Line	-	26.29	10.11	0.01	9.97
AV	186.085k	33.37	54.20	-20.83	20.09	Line	-	13.28	10.11	0.01	9.97
QP	341.378k	36.62	59.17	-22.55	19.94	Line	-	16.68	9.93	0.03	9.98
AV	341.378k	30.23	49.17	-18.94	19.94	Line	-	10.29	9.93	0.03	9.98
QP	717.31k	23.98	56.00	-32.02	19.96	Line	-	4.02	9.94	0.04	9.98
AV	717.31k	19.10	46.00	-26.90	19.96	Line	-	-0.86	9.94	0.04	9.98
QP	1.167M	19.95	56.00	-36.05	19.82	Line	-	0.13	9.79	0.05	9.98
AV	1.167M	15.21	46.00	-30.79	19.82	Line	-	-4.61	9.79	0.05	9.98
QP	7.353M	19.50	60.00	-40.50	19.84	Line	-	-0.34	9.68	0.18	9.98
AV	7.353M	16.51	50.00	-33.49	19.84	Line	-	-3.33	9.68	0.18	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	150k	50.34	66.00	-15.66	19.56	Neutral	-	30.78	9.58	0.01	9.97
AV	150k	35.19	56.00	-20.81	19.56	Neutral	-	15.63	9.58	0.01	9.97
QP	216.567k	41.90	62.94	-21.04	19.84	Neutral	-	22.06	9.86	0.01	9.97
AV	216.567k	31.28	52.94	-21.66	19.84	Neutral	-	11.44	9.86	0.01	9.97
QP	340.018k	38.34	59.19	-20.85	19.94	Neutral	-	18.40	9.93	0.03	9.98
AV	340.018k	33.69	49.19	-15.50	19.94	Neutral	-	13.75	9.93	0.03	9.98
QP	621.288k	22.66	56.00	-33.34	20.02	Neutral	-	2.64	10.00	0.04	9.98
AV	621.288k	20.12	46.00	-25.88	20.02	Neutral	-	0.10	10.00	0.04	9.98
QP	1.477M	16.29	56.00	-39.71	19.75	Neutral	-	-3.46	9.74	0.04	9.97
AV	1.477M	13.48	46.00	-32.52	19.75	Neutral	-	-6.27	9.74	0.04	9.97
QP	18.713M	25.36	60.00	-34.64	20.03	Neutral	-	5.33	9.77	0.28	9.98
AV	18.713M	21.22	50.00	-28.78	20.03	Neutral	-	1.19	9.77	0.28	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	8.025M	13.238M	13M2G1D	6.625M	12.924M
802.11g_Nss1,(6Mbps)_2TX	16.3M	16.822M	16M8D1D	14.45M	16.426M
802.11be EHT20_Nss1,(MCS0)_2TX	18.825M	18.966M	19M0D1D	14.75M	18.891M
802.11be EHT40_Nss1,(MCS0)_2TX	37.75M	37.881M	37M9D1D	12.15M	37.681M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	6.625M	12.924M	8.025M	12.984M
2437MHz	Pass	500k	8.025M	13.073M	6.625M	13.238M
2462MHz	Pass	500k	7.1M	13.028M	7.575M	13.058M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.675M	16.822M	16.275M	16.624M
2437MHz	Pass	500k	16.3M	16.426M	15.75M	16.426M
2462MHz	Pass	500k	14.45M	16.58M	16.05M	16.58M
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.825M	18.966M	16.6M	18.966M
2437MHz	Pass	500k	18.65M	18.891M	14.75M	18.941M
2462MHz	Pass	500k	18.625M	18.941M	17.85M	18.891M
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	33.35M	37.681M	37.75M	37.731M
2437MHz	Pass	500k	37.65M	37.681M	12.15M	37.881M
2452MHz	Pass	500k	35M	37.781M	37.5M	37.681M

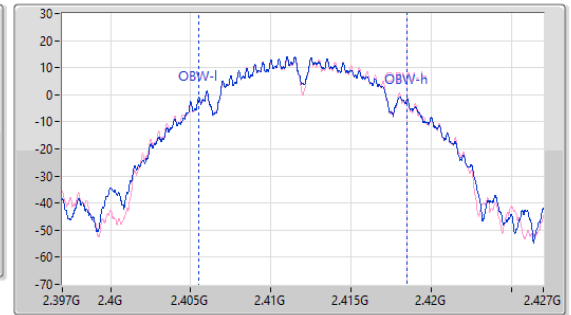
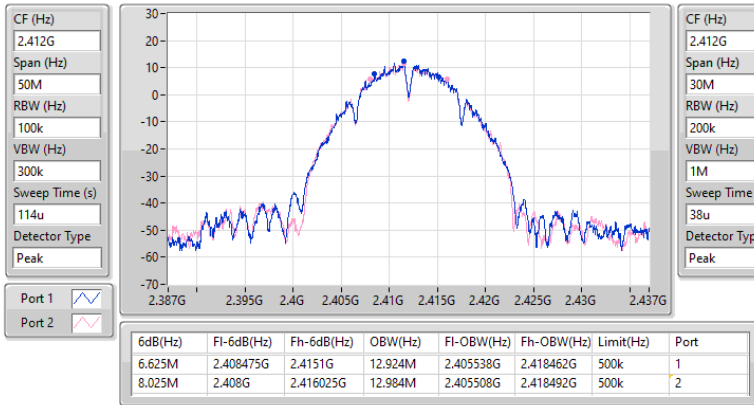
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2412MHz

20/03/2025

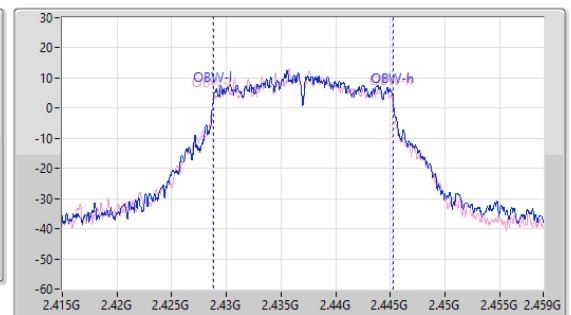
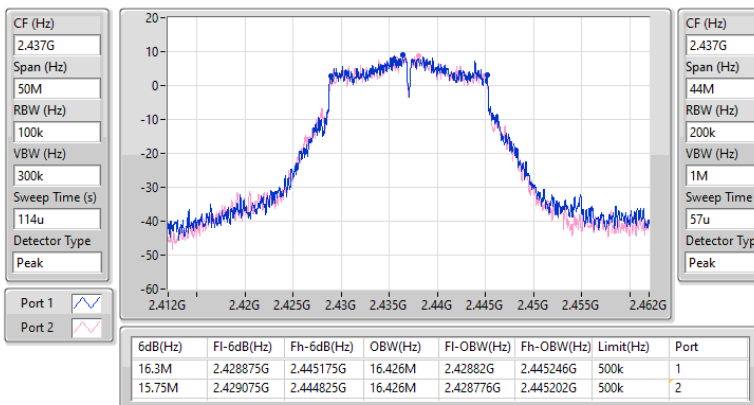


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

EBW

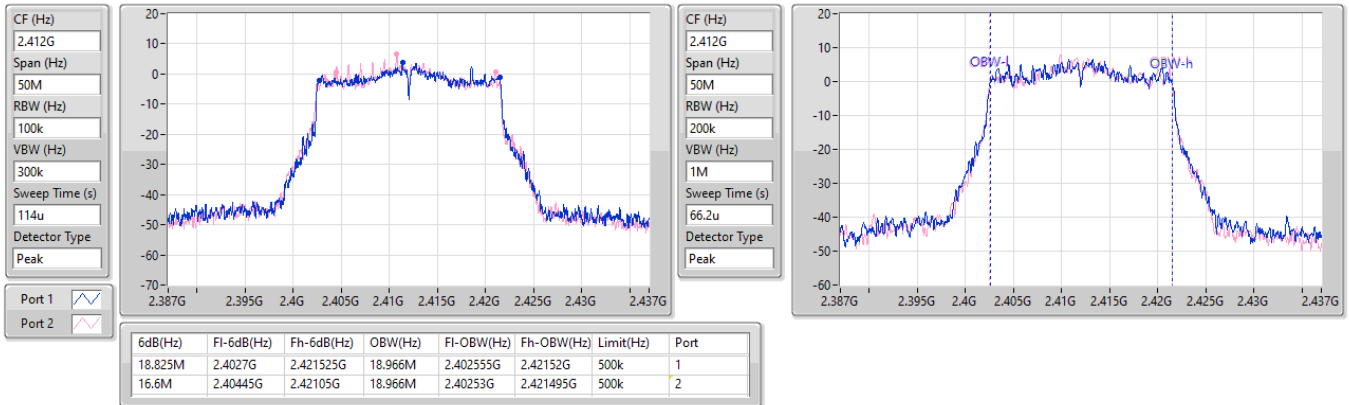
2437MHz

20/03/2025

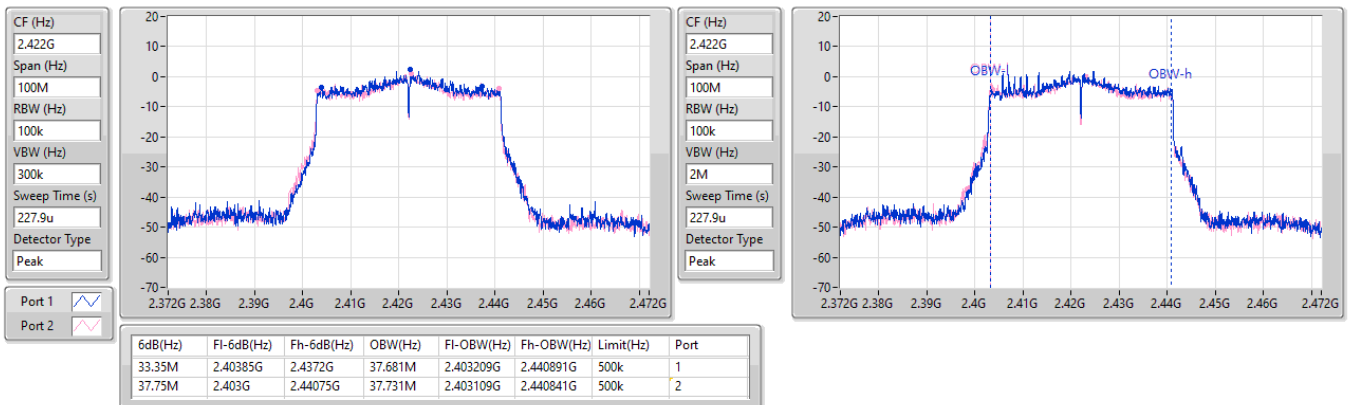


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX
EBW
2412MHz

20/03/2025


2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX
EBW
2422MHz

20/03/2025





Average Power_Non-Beamforming

Appendix C.1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.18	0.52240
802.11g_Nss1,(6Mbps)_2TX	24.89	0.30832
802.11be EHT20_Nss1,(MCS0)_2TX	24.41	0.27606
802.11be EHT40_Nss1,(MCS0)_2TX	19.86	0.09683



Average Power_Non-Beamforming

Appendix C.1

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.40	22.16	21.74	24.97	30.00
2417MHz	Pass	4.40	22.72	22.30	25.53	30.00
2437MHz	Pass	4.40	24.64	23.64	27.18	30.00
2457MHz	Pass	4.40	22.75	22.63	25.70	30.00
2462MHz	Pass	4.40	22.22	22.20	25.22	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.40	18.48	18.38	21.44	30.00
2417MHz	Pass	4.40	19.09	18.82	21.97	30.00
2437MHz	Pass	4.40	22.15	21.60	24.89	30.00
2457MHz	Pass	4.40	20.49	19.83	23.18	30.00
2462MHz	Pass	4.40	18.46	18.49	21.49	30.00
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.40	16.97	17.13	20.06	30.00
2417MHz	Pass	4.40	17.82	18.49	21.18	30.00
2437MHz	Pass	4.40	21.40	21.39	24.41	30.00
2457MHz	Pass	4.40	17.82	17.66	20.75	30.00
2462MHz	Pass	4.40	17.05	17.36	20.22	30.00
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.40	17.05	16.64	19.86	30.00
2437MHz	Pass	4.40	16.74	16.38	19.57	30.00
2452MHz	Pass	4.40	16.91	16.64	19.79	30.00

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



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_2TX	24.41	0.27606
802.11be EHT40-BF_Nss1,(MCS0)_2TX	19.86	0.09683



Result

Mode	Result	DG (dBi)	Total Power (dBm)	Power Limit (dBm)	Port 1 (dBm)	Port 2 (dBm)
802.11be EHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.41	20.06	28.59	16.97	17.13
2417MHz	Pass	7.41	21.18	28.59	17.82	18.49
2437MHz	Pass	7.41	24.41	28.59	21.40	21.39
2457MHz	Pass	7.41	20.75	28.59	17.82	17.66
2462MHz	Pass	7.41	20.22	28.59	17.05	17.36
802.11be EHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.41	19.86	28.59	17.05	16.64
2437MHz	Pass	7.41	19.57	28.59	16.74	16.38
2452MHz	Pass	7.41	19.79	28.59	16.91	16.64

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	-0.95
802.11g_Nss1,(6Mbps)_2TX	-1.56
802.11be EHT20_Nss1,(MCS0)_2TX	-2.30
802.11be EHT40_Nss1,(MCS0)_2TX	-8.78

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.41	-5.88	-3.91	-2.08	6.59
2437MHz	Pass	7.41	-3.65	-4.24	-0.95	6.59
2462MHz	Pass	7.41	-5.84	-6.20	-3.01	6.59
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.41	-8.61	-8.05	-5.89	6.59
2437MHz	Pass	7.41	-3.70	-4.01	-1.56	6.59
2462MHz	Pass	7.41	-8.57	-8.12	-5.86	6.59
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.41	-8.96	-8.39	-6.47	6.59
2437MHz	Pass	7.41	-3.50	-4.93	-2.30	6.59
2462MHz	Pass	7.41	-9.16	-7.32	-6.20	6.59
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.41	-10.10	-11.46	-8.79	6.59
2437MHz	Pass	7.41	-10.77	-11.21	-8.78	6.59
2452MHz	Pass	7.41	-10.10	-10.27	-9.01	6.59

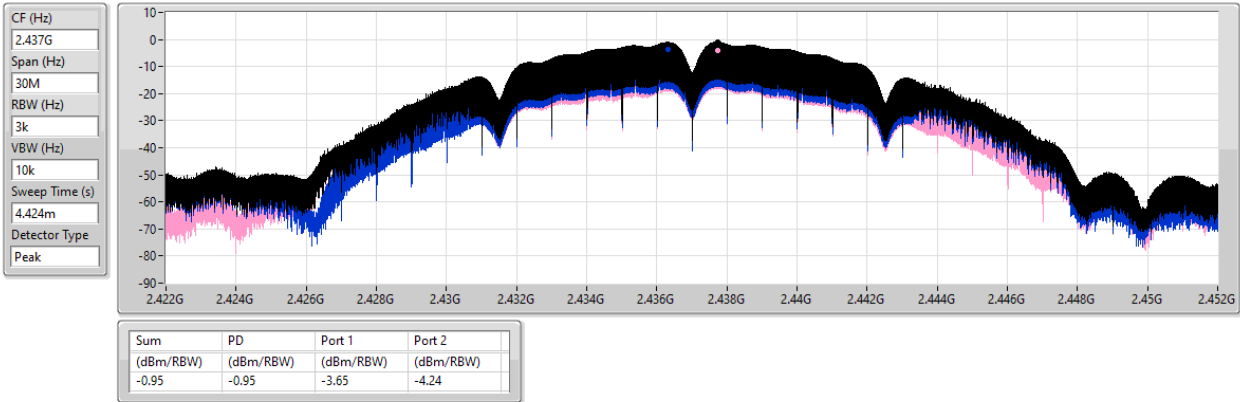
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

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

PSD

2437MHz

20/03/2025

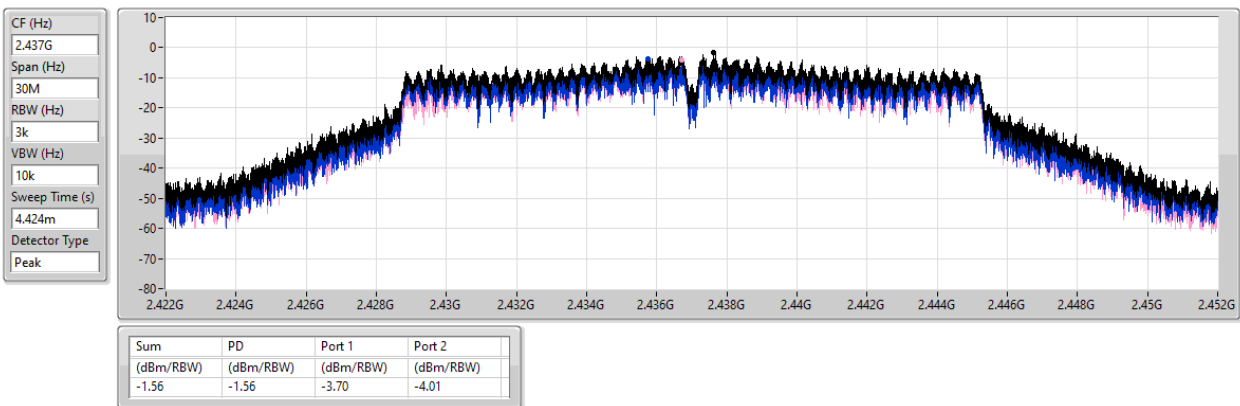


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

20/03/2025

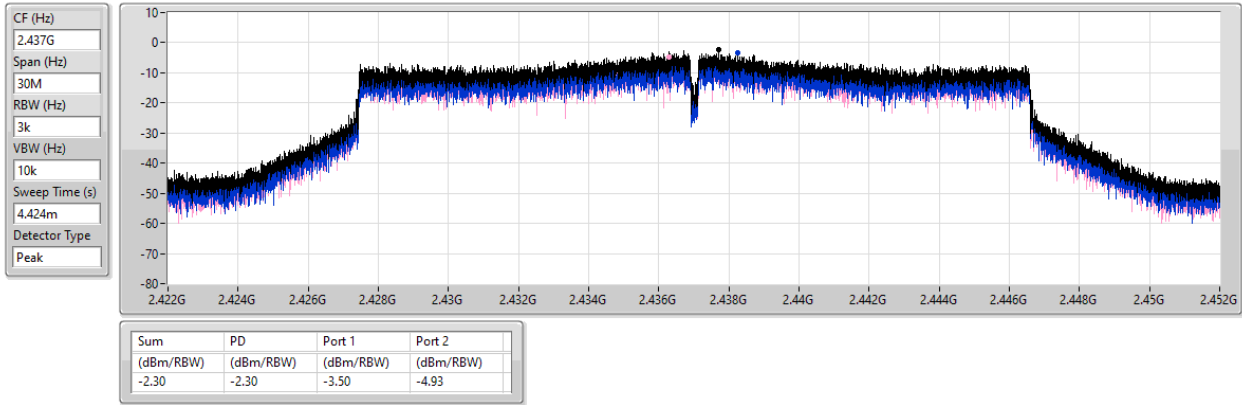


2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

PSD

2437MHz

20/03/2025

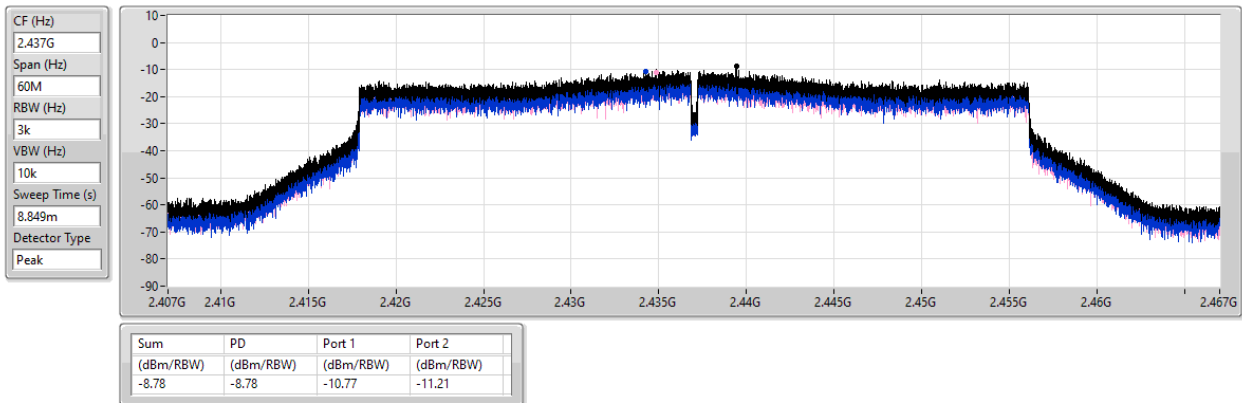


2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

PSD

2437MHz

20/03/2025





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	2.43758G	14.75	-15.25	2.12933G	-53.64	2.4G	-35.17	2.4G	-34.97	2.50838G	-52.28	23.21031G	-41.72	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43574G	12.37	-17.63	2.30175G	-54.50	2.4G	-26.35	2.4G	-24.48	2.51886G	-52.82	16.5685G	-40.97	1
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	2.43741G	10.37	-19.63	2.127G	-54.39	2.4G	-24.86	2.4G	-26.67	2.50238G	-52.01	24.82019G	-41.59	1
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	2.41703G	3.88	-26.12	2.30741G	-53.35	2.4G	-28.04	2.4G	-26.99	2.51038G	-51.20	16.69289G	-41.16	1

Result

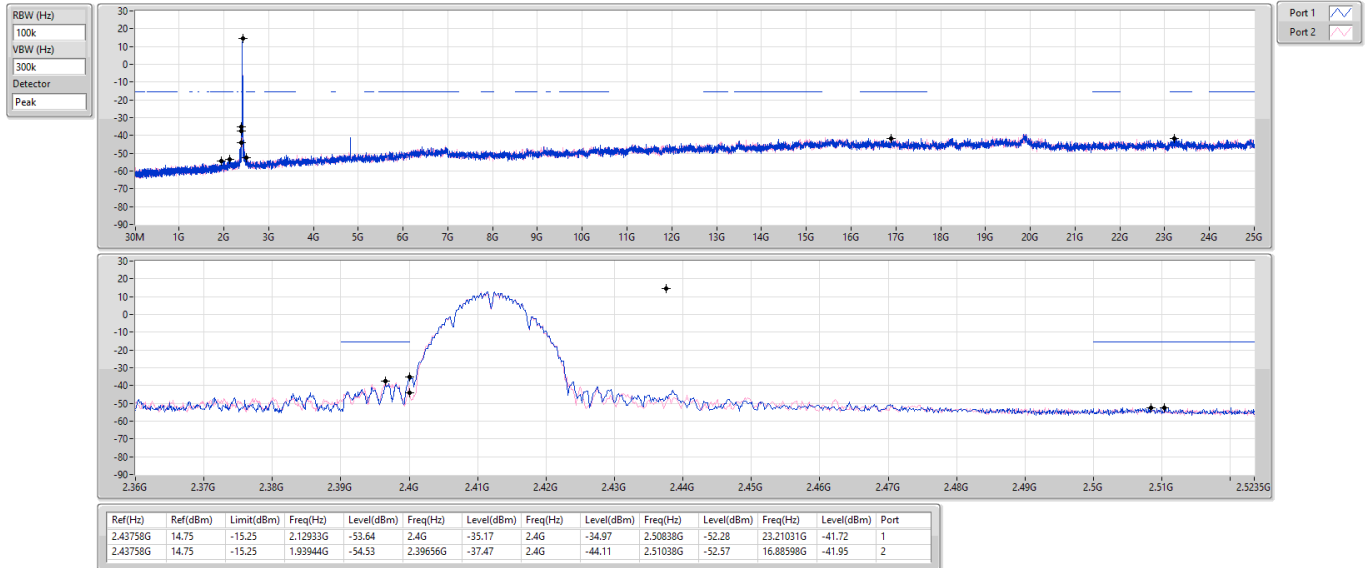
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43758G	14.75	-15.25	2.12933G	-53.64	2.4G	-35.17	2.4G	-34.97	2.50838G	-52.28	23.21031G	-41.72	1
2412MHz	Pass	2.43758G	14.75	-15.25	1.93944G	-54.53	2.39656G	-37.47	2.4G	-44.11	2.51038G	-52.57	16.88598G	-41.95	2
2437MHz	Pass	2.43758G	14.75	-15.25	2.11302G	-53.32	2.39656G	-41.38	2.4G	-44.79	2.50486G	-50.90	23.22436G	-40.50	1
2437MHz	Pass	2.43758G	14.75	-15.25	2.11768G	-51.95	2.39856G	-45.49	2.4G	-50.43	2.50046G	-51.57	24.93257G	-40.34	2
2462MHz	Pass	2.43758G	14.75	-15.25	2.11186G	-53.87	2.3908G	-51.65	2.4G	-51.96	2.5075G	-48.01	24.88481G	-41.07	1
2462MHz	Pass	2.43758G	14.75	-15.25	2.04196G	-54.68	2.39632G	-52.45	2.4G	-53.07	2.50454G	-50.31	23.19626G	-41.81	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	12.37	-17.63	2.30175G	-54.50	2.4G	-26.35	2.4G	-24.48	2.51886G	-52.82	16.5685G	-40.97	1
2412MHz	Pass	2.43574G	12.37	-17.63	2.11885G	-54.54	2.4G	-27.16	2.4G	-25.30	2.50022G	-51.50	24.85109G	-41.59	2
2437MHz	Pass	2.43574G	12.37	-17.63	2.12351G	-53.14	2.39824G	-43.29	2.4G	-44.67	2.50062G	-51.45	24.51395G	-41.57	1
2437MHz	Pass	2.43574G	12.37	-17.63	2.15729G	-54.33	2.3988G	-45.04	2.4G	-46.59	2.50302G	-51.18	16.55446G	-41.76	2
2462MHz	Pass	2.43574G	12.37	-17.63	2.13283G	-53.86	2.39672G	-52.91	2.4G	-51.30	2.50318G	-50.14	16.84665G	-41.70	1
2462MHz	Pass	2.43574G	12.37	-17.63	2.13516G	-54.20	2.39856G	-52.09	2.4G	-52.79	2.50014G	-49.42	16.40836G	-41.62	2
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43741G	10.37	-19.63	2.127G	-54.39	2.4G	-24.86	2.4G	-26.67	2.50238G	-52.01	24.82019G	-41.59	1
2412MHz	Pass	2.43741G	10.37	-19.63	2.11652G	-53.97	2.39968G	-27.61	2.4G	-26.67	2.51158G	-52.97	13.5426G	-41.76	2
2437MHz	Pass	2.43741G	10.37	-19.63	2.14331G	-53.22	2.39944G	-42.27	2.4G	-43.90	2.50038G	-50.40	24.35661G	-41.48	1
2437MHz	Pass	2.43741G	10.37	-19.63	2.12933G	-53.78	2.39832G	-44.43	2.4G	-45.62	2.50014G	-51.20	23.20188G	-41.81	2
2462MHz	Pass	2.43741G	10.37	-19.63	2.06759G	-54.12	2.4G	-51.90	2.4G	-52.04	2.5063G	-50.31	16.85508G	-41.36	1
2462MHz	Pass	2.43741G	10.37	-19.63	2.13865G	-54.15	2.39968G	-51.12	2.4G	-52.71	2.50086G	-50.22	16.56007G	-41.26	2
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.41703G	3.88	-26.12	2.30741G	-53.35	2.4G	-28.04	2.4G	-26.99	2.51038G	-51.20	16.69289G	-41.16	1
2422MHz	Pass	2.41703G	3.88	-26.12	2.18146G	-52.81	2.4G	-29.34	2.4G	-28.60	2.52238G	-51.89	16.37036G	-41.68	2
2437MHz	Pass	2.41703G	3.88	-26.12	2.3097G	-52.55	2.3984G	-43.21	2.4G	-41.87	2.51406G	-50.64	16.73215G	-41.29	1
2437MHz	Pass	2.41703G	3.88	-26.12	2.10703G	-53.21	2.39824G	-42.75	2.4G	-41.89	2.5099G	-50.67	24.89904G	-41.41	2
2452MHz	Pass	2.41703G	3.88	-26.12	917.38M	-33.85	2.39952G	-48.91	2.4G	-48.24	2.50014G	-47.62	21.55319G	-42.02	1
2452MHz	Pass	2.41703G	3.88	-26.12	2.13566G	-53.79	2.39936G	-48.48	2.4G	-48.41	2.50062G	-46.72	17.42207G	-41.39	2

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

CSEndB

2412MHz

20/03/2025

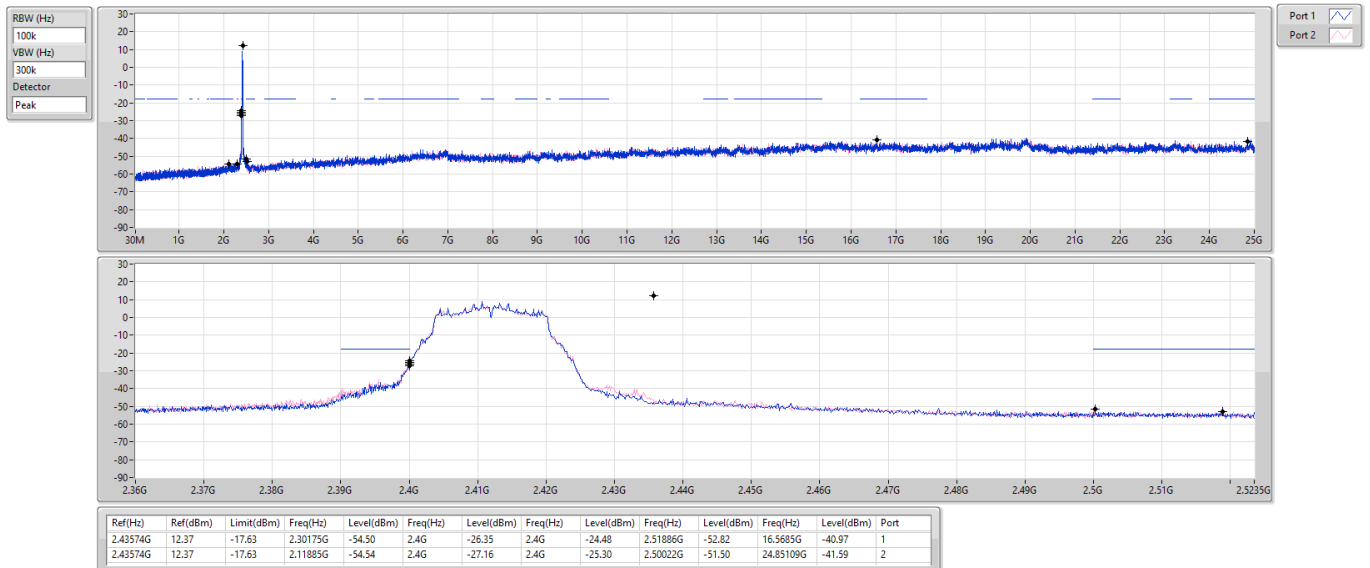


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

CSEndB

2412MHz

20/03/2025



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

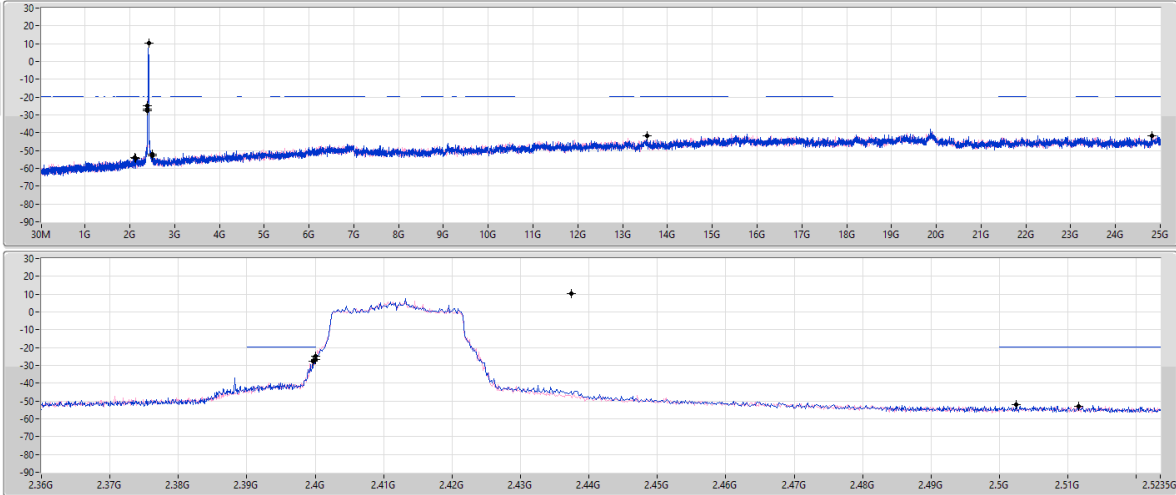
CSEndB

2412MHz

20/03/2025

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
2.43741G	10.37	-19.63	2.127G	-54.39	2.4G	-24.86	2.4G	-26.67	2.50238G	-52.01	2.482019G	-41.59	1
2.43741G	10.37	-19.63	2.11652G	-53.97	2.39968G	-27.61	2.4G	-26.67	2.51158G	-52.97	13.5426G	-41.76	2

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

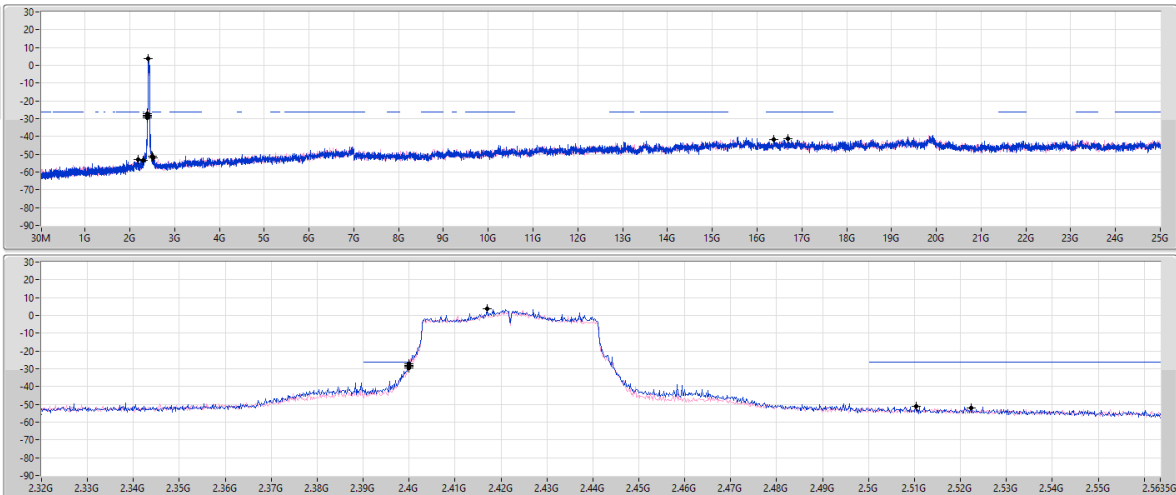
CSEndB

2422MHz

20/03/2025

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
2.41703G	3.88	-26.12	2.30741G	-53.35	2.4G	-28.04	2.4G	-26.99	2.51038G	-51.20	16.69289G	-41.16	1
2.41703G	3.88	-26.12	2.18146G	-52.81	2.4G	-29.34	2.4G	-28.60	2.52238G	-51.89	16.37036G	-41.68	2



Summary

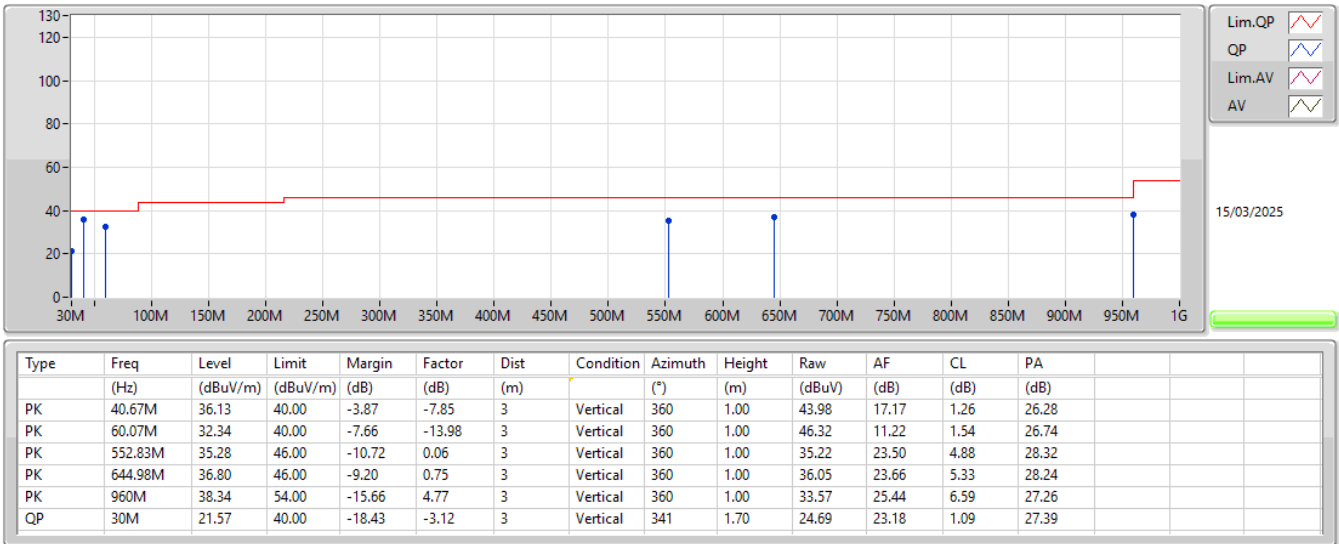
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	PK	40.67M	36.13	40.00	-3.87	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11be EHT40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2437MHz_Adapter	Pass	PK	40.67M	36.13	40.00	-3.87	3	Vertical	360	1.00
2437MHz_Adapter	Pass	PK	60.07M	32.34	40.00	-7.66	3	Vertical	360	1.00
2437MHz_Adapter	Pass	PK	552.83M	35.28	46.00	-10.72	3	Vertical	360	1.00
2437MHz_Adapter	Pass	PK	644.98M	36.80	46.00	-9.20	3	Vertical	360	1.00
2437MHz_Adapter	Pass	PK	960M	38.34	54.00	-15.66	3	Vertical	360	1.00
2437MHz_Adapter	Pass	QP	30M	21.57	40.00	-18.43	3	Vertical	341	1.70
2437MHz_Adapter	Pass	PK	40.67M	32.24	40.00	-7.76	3	Horizontal	0	1.00
2437MHz_Adapter	Pass	PK	188.11M	37.26	43.50	-6.24	3	Horizontal	0	1.00
2437MHz_Adapter	Pass	PK	288.99M	37.38	46.00	-8.62	3	Horizontal	0	1.00
2437MHz_Adapter	Pass	PK	357.86M	37.80	46.00	-8.20	3	Horizontal	0	1.00
2437MHz_Adapter	Pass	PK	918.52M	38.86	46.00	-7.14	3	Horizontal	0	1.00
2437MHz_Adapter	Pass	QP	32.7M	34.65	40.00	-5.35	3	Horizontal	202	1.00

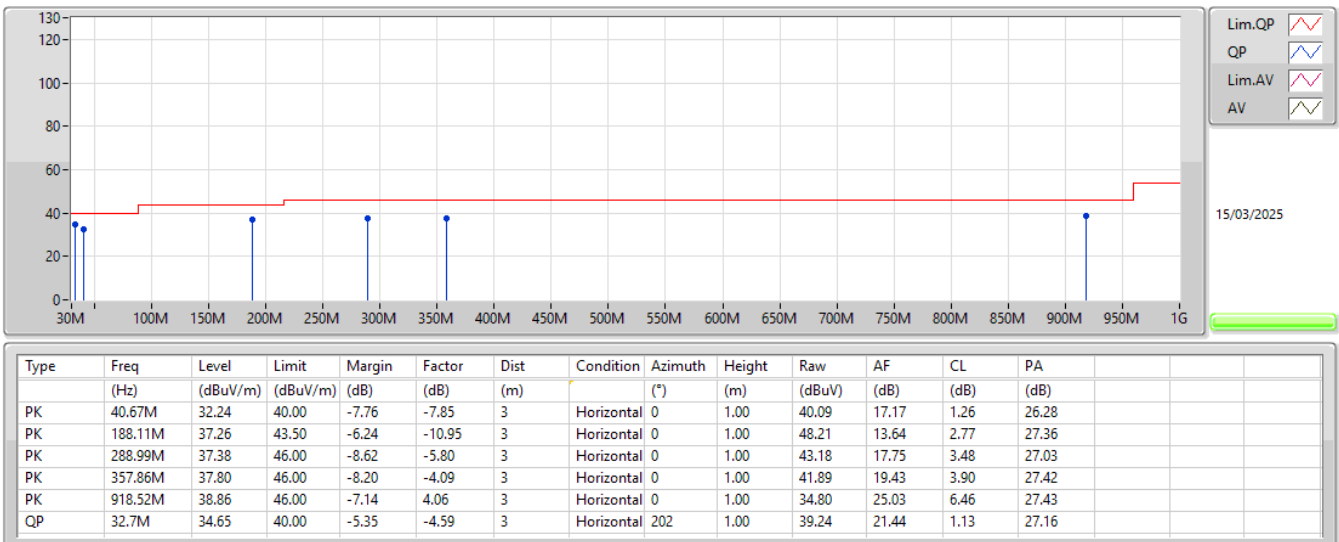
2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2437MHz_Adapter



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

2437MHz_Adapter



**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	2.4836G	53.52	54.00	-0.48	3	Vertical	23	2.44
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4835G	53.89	54.00	-0.11	3	Vertical	7	2.46
802.11be EHT20_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.46	54.00	-0.54	3	Vertical	34	2.67
802.11be EHT40_Nss1,(MCS0)_2TX	Pass	AV	2.3808G	53.73	54.00	-0.27	3	Vertical	336	2.55

Result

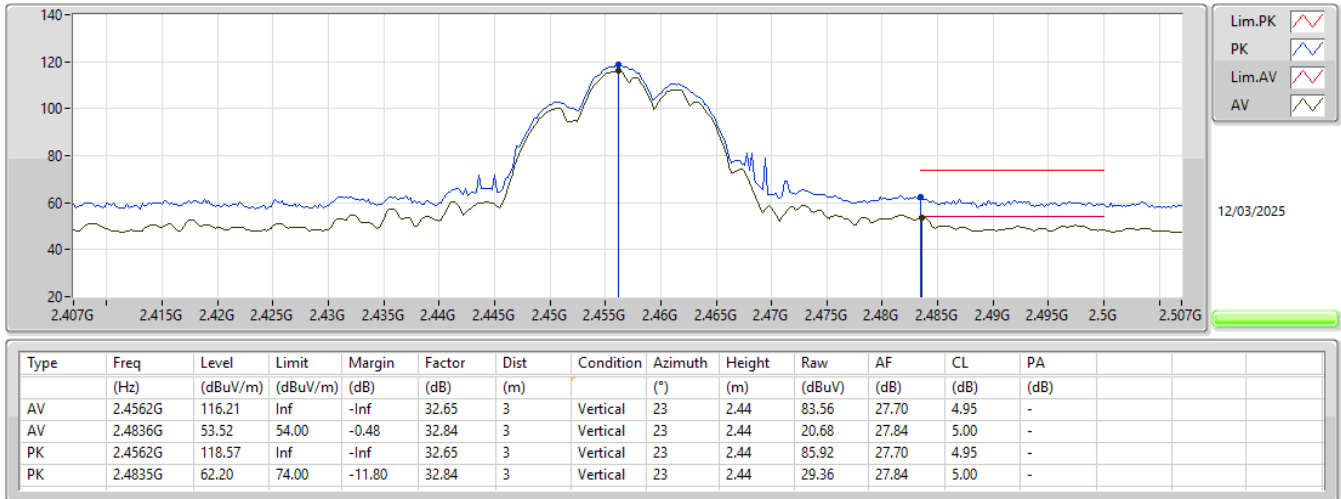
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	53.32	54.00	-0.68	3	Vertical	5	2.77
2412MHz	Pass	AV	2.4128G	116.39	Inf	-Inf	3	Vertical	5	2.77
2412MHz	Pass	PK	2.3868G	61.43	74.00	-12.57	3	Vertical	5	2.77
2412MHz	Pass	PK	2.4128G	118.76	Inf	-Inf	3	Vertical	5	2.77
2412MHz	Pass	AV	4.824G	46.50	54.00	-7.50	3	Vertical	303	1.25
2412MHz	Pass	PK	4.82408G	50.17	74.00	-23.83	3	Vertical	303	1.25
2412MHz	Pass	AV	4.824G	42.98	54.00	-11.02	3	Horizontal	346	1.00
2412MHz	Pass	PK	4.82412G	47.66	74.00	-26.34	3	Horizontal	346	1.00
2417MHz	Pass	AV	2.39G	53.48	54.00	-0.52	3	Vertical	3	2.77
2417MHz	Pass	AV	2.4178G	116.68	Inf	-Inf	3	Vertical	3	2.77
2417MHz	Pass	PK	2.39G	61.66	74.00	-12.34	3	Vertical	3	2.77
2417MHz	Pass	PK	2.4178G	119.00	Inf	-Inf	3	Vertical	3	2.77
2437MHz	Pass	AV	2.3898G	53.28	54.00	-0.72	3	Vertical	5	2.24
2437MHz	Pass	AV	2.4378G	119.11	Inf	-Inf	3	Vertical	5	2.24
2437MHz	Pass	AV	2.4854G	51.12	54.00	-2.88	3	Vertical	5	2.24
2437MHz	Pass	PK	2.3898G	61.34	74.00	-12.66	3	Vertical	5	2.24
2437MHz	Pass	PK	2.4378G	121.47	Inf	-Inf	3	Vertical	5	2.24
2437MHz	Pass	PK	2.485G	60.81	74.00	-13.19	3	Vertical	5	2.24
2437MHz	Pass	AV	4.874G	51.14	54.00	-2.86	3	Vertical	308	1.16
2437MHz	Pass	AV	7.30924G	47.90	54.00	-6.10	3	Vertical	0	1.50
2437MHz	Pass	PK	4.87396G	53.30	74.00	-20.70	3	Vertical	308	1.16
2437MHz	Pass	PK	7.30952G	53.73	74.00	-20.27	3	Vertical	0	1.50
2437MHz	Pass	AV	4.87396G	48.02	54.00	-5.98	3	Horizontal	310	1.80
2437MHz	Pass	AV	7.3102G	51.56	54.00	-2.44	3	Horizontal	312	2.20
2437MHz	Pass	PK	4.87404G	50.72	74.00	-23.28	3	Horizontal	310	1.80
2437MHz	Pass	PK	7.30952G	56.65	74.00	-17.35	3	Horizontal	312	2.20
2457MHz	Pass	AV	2.4562G	116.21	Inf	-Inf	3	Vertical	23	2.44
2457MHz	Pass	AV	2.4836G	53.52	54.00	-0.48	3	Vertical	23	2.44
2457MHz	Pass	PK	2.4562G	118.57	Inf	-Inf	3	Vertical	23	2.44
2457MHz	Pass	PK	2.4835G	62.20	74.00	-11.80	3	Vertical	23	2.44
2462MHz	Pass	AV	2.4628G	116.92	Inf	-Inf	3	Vertical	6	2.20
2462MHz	Pass	AV	2.4884G	53.00	54.00	-1.00	3	Vertical	6	2.20
2462MHz	Pass	PK	2.4628G	119.27	Inf	-Inf	3	Vertical	6	2.20
2462MHz	Pass	PK	2.4878G	61.81	74.00	-12.19	3	Vertical	6	2.20
2462MHz	Pass	AV	4.924G	44.22	54.00	-9.78	3	Vertical	313	1.21
2462MHz	Pass	AV	7.38528G	45.52	54.00	-8.48	3	Vertical	31	1.61
2462MHz	Pass	PK	4.92408G	48.04	74.00	-25.96	3	Vertical	313	1.21
2462MHz	Pass	PK	7.38584G	52.03	74.00	-21.97	3	Vertical	31	1.61
2462MHz	Pass	AV	4.924G	43.65	54.00	-10.35	3	Horizontal	316	1.04
2462MHz	Pass	AV	7.38676G	44.76	54.00	-9.24	3	Horizontal	347	1.23
2462MHz	Pass	PK	4.92404G	47.47	74.00	-26.53	3	Horizontal	316	1.04
2462MHz	Pass	PK	7.3868G	51.48	74.00	-22.52	3	Horizontal	347	1.23
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	53.67	54.00	-0.33	3	Vertical	9	2.76
2412MHz	Pass	AV	2.4134G	109.03	Inf	-Inf	3	Vertical	9	2.76
2412MHz	Pass	PK	2.3892G	69.61	74.00	-4.39	3	Vertical	9	2.76
2412MHz	Pass	PK	2.4134G	116.93	Inf	-Inf	3	Vertical	9	2.76
2412MHz	Pass	AV	4.821G	33.17	54.00	-20.83	3	Vertical	332	1.72
2412MHz	Pass	PK	4.82148G	45.58	74.00	-28.42	3	Vertical	332	1.72
2412MHz	Pass	AV	4.82404G	30.28	54.00	-23.72	3	Horizontal	345	1.00
2412MHz	Pass	PK	4.81884G	41.99	74.00	-32.01	3	Horizontal	345	1.00
2417MHz	Pass	AV	2.3884G	52.86	54.00	-1.14	3	Vertical	8	2.78
2417MHz	Pass	AV	2.4184G	109.39	Inf	-Inf	3	Vertical	8	2.78
2417MHz	Pass	PK	2.3876G	69.01	74.00	-4.99	3	Vertical	8	2.78
2417MHz	Pass	PK	2.419G	117.59	Inf	-Inf	3	Vertical	8	2.78
2437MHz	Pass	AV	2.3894G	51.00	54.00	-3.00	3	Vertical	14	2.24
2437MHz	Pass	AV	2.4382G	113.68	Inf	-Inf	3	Vertical	14	2.24
2437MHz	Pass	AV	2.4835G	53.65	54.00	-0.35	3	Vertical	14	2.24
2437MHz	Pass	PK	2.387G	63.93	74.00	-10.07	3	Vertical	14	2.24
2437MHz	Pass	PK	2.4382G	121.50	Inf	-Inf	3	Vertical	14	2.24

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	2.4835G	68.71	74.00	-5.29	3	Vertical	14	2.24
2437MHz	Pass	AV	4.87418G	36.80	54.00	-17.20	3	Vertical	315	1.10
2437MHz	Pass	AV	7.31022G	39.95	54.00	-14.05	3	Vertical	308	1.51
2437MHz	Pass	PK	4.87442G	48.12	74.00	-25.88	3	Vertical	315	1.10
2437MHz	Pass	PK	7.31118G	52.98	74.00	-21.02	3	Vertical	308	1.51
2437MHz	Pass	AV	4.87442G	34.69	54.00	-19.31	3	Horizontal	318	1.77
2437MHz	Pass	AV	7.31418G	41.50	54.00	-12.50	3	Horizontal	309	2.36
2437MHz	Pass	PK	4.8749G	47.40	74.00	-26.60	3	Horizontal	318	1.77
2437MHz	Pass	PK	7.31514G	53.30	74.00	-20.70	3	Horizontal	309	2.36
2457MHz	Pass	AV	2.4564G	112.00	Inf	-Inf	3	Vertical	5	3.00
2457MHz	Pass	AV	2.4835G	53.43	54.00	-0.57	3	Vertical	5	3.00
2457MHz	Pass	PK	2.4564G	119.85	Inf	-Inf	3	Vertical	5	3.00
2457MHz	Pass	PK	2.492G	66.59	74.00	-7.41	3	Vertical	5	3.00
2462MHz	Pass	AV	2.4612G	110.52	Inf	-Inf	3	Vertical	7	2.46
2462MHz	Pass	AV	2.4835G	53.89	54.00	-0.11	3	Vertical	7	2.46
2462MHz	Pass	PK	2.4612G	118.42	Inf	-Inf	3	Vertical	7	2.46
2462MHz	Pass	PK	2.4835G	68.86	74.00	-5.14	3	Vertical	7	2.46
2462MHz	Pass	AV	4.92592G	32.72	54.00	-21.28	3	Vertical	322	2.98
2462MHz	Pass	AV	7.38546G	36.69	54.00	-17.31	3	Vertical	311	1.85
2462MHz	Pass	PK	4.92172G	45.08	74.00	-28.92	3	Vertical	322	2.98
2462MHz	Pass	PK	7.39518G	49.20	74.00	-24.80	3	Vertical	311	1.85
2462MHz	Pass	AV	4.92502G	31.42	54.00	-22.58	3	Horizontal	316	1.34
2462MHz	Pass	AV	7.3854G	35.89	54.00	-18.11	3	Horizontal	351	1.64
2462MHz	Pass	PK	4.9249G	44.39	74.00	-29.61	3	Horizontal	316	1.34
2462MHz	Pass	PK	7.38546G	48.55	74.00	-25.45	3	Horizontal	351	1.64
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3896G	53.31	54.00	-0.69	3	Vertical	337	2.33
2412MHz	Pass	AV	2.4112G	105.64	Inf	-Inf	3	Vertical	337	2.33
2412MHz	Pass	PK	2.3892G	67.63	74.00	-6.37	3	Vertical	337	2.33
2412MHz	Pass	PK	2.4126G	116.25	Inf	-Inf	3	Vertical	337	2.33
2412MHz	Pass	AV	4.82394G	32.02	54.00	-21.98	3	Vertical	346	2.01
2412MHz	Pass	PK	4.8255G	44.00	74.00	-30.00	3	Vertical	346	2.01
2412MHz	Pass	AV	4.824G	29.33	54.00	-24.67	3	Horizontal	37	1.94
2412MHz	Pass	PK	4.82346G	41.05	74.00	-32.95	3	Horizontal	37	1.94
2417MHz	Pass	AV	2.39G	53.08	54.00	-0.92	3	Vertical	3	2.48
2417MHz	Pass	AV	2.4162G	110.08	Inf	-Inf	3	Vertical	3	2.48
2417MHz	Pass	PK	2.39G	69.88	74.00	-4.12	3	Vertical	3	2.48
2417MHz	Pass	PK	2.4162G	121.31	Inf	-Inf	3	Vertical	3	2.48
2437MHz	Pass	AV	2.3898G	50.57	54.00	-3.43	3	Vertical	358	2.99
2437MHz	Pass	AV	2.4362G	113.55	Inf	-Inf	3	Vertical	358	2.99
2437MHz	Pass	AV	2.4835G	51.63	54.00	-2.37	3	Vertical	358	2.99
2437MHz	Pass	PK	2.3786G	64.73	74.00	-9.27	3	Vertical	358	2.99
2437MHz	Pass	PK	2.4358G	124.72	Inf	-Inf	3	Vertical	358	2.99
2437MHz	Pass	PK	2.4898G	67.36	74.00	-6.64	3	Vertical	358	2.99
2437MHz	Pass	AV	4.87388G	35.17	54.00	-18.83	3	Vertical	320	1.00
2437MHz	Pass	AV	7.30998G	38.35	54.00	-15.65	3	Vertical	311	1.64
2437MHz	Pass	PK	4.87502G	47.42	74.00	-26.58	3	Vertical	320	1.00
2437MHz	Pass	PK	7.30746G	51.25	74.00	-22.75	3	Vertical	311	1.64
2437MHz	Pass	AV	4.87586G	33.44	54.00	-20.56	3	Horizontal	318	1.62
2437MHz	Pass	AV	7.30626G	38.98	54.00	-15.02	3	Horizontal	311	2.15
2437MHz	Pass	PK	4.8755G	45.74	74.00	-28.26	3	Horizontal	318	1.62
2437MHz	Pass	PK	7.30698G	52.81	74.00	-21.19	3	Horizontal	311	2.15
2457MHz	Pass	AV	2.4576G	109.61	Inf	-Inf	3	Vertical	0	2.74
2457MHz	Pass	AV	2.4835G	52.82	54.00	-1.18	3	Vertical	0	2.74
2457MHz	Pass	PK	2.4562G	120.20	Inf	-Inf	3	Vertical	0	2.74
2457MHz	Pass	PK	2.484G	69.70	74.00	-4.30	3	Vertical	0	2.74
2462MHz	Pass	AV	2.4626G	106.92	Inf	-Inf	3	Vertical	34	2.67
2462MHz	Pass	AV	2.4835G	53.46	54.00	-0.54	3	Vertical	34	2.67
2462MHz	Pass	PK	2.4636G	118.29	Inf	-Inf	3	Vertical	34	2.67
2462MHz	Pass	PK	2.487G	70.14	74.00	-3.86	3	Vertical	34	2.67
2462MHz	Pass	AV	4.92496G	29.72	54.00	-24.28	3	Vertical	309	1.36
2462MHz	Pass	AV	7.39338G	34.51	54.00	-19.49	3	Vertical	35	1.61

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	PK	4.92352G	41.75	74.00	-32.25	3	Vertical	309	1.36
2462MHz	Pass	PK	7.39506G	46.83	74.00	-27.17	3	Vertical	35	1.61
2462MHz	Pass	AV	4.92652G	29.68	54.00	-24.32	3	Horizontal	320	1.20
2462MHz	Pass	AV	7.39266G	34.80	54.00	-19.20	3	Horizontal	312	2.17
2462MHz	Pass	PK	4.92196G	41.61	74.00	-32.39	3	Horizontal	320	1.20
2462MHz	Pass	PK	7.37448G	47.04	74.00	-26.96	3	Horizontal	312	2.17
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3808G	53.73	54.00	-0.27	3	Vertical	336	2.55
2422MHz	Pass	AV	2.4204G	103.33	Inf	-Inf	3	Vertical	336	2.55
2422MHz	Pass	AV	2.4912G	47.78	54.00	-6.22	3	Vertical	336	2.55
2422MHz	Pass	PK	2.382G	68.78	74.00	-5.22	3	Vertical	336	2.55
2422MHz	Pass	PK	2.4208G	114.24	Inf	-Inf	3	Vertical	336	2.55
2422MHz	Pass	PK	2.4852G	59.30	74.00	-14.70	3	Vertical	336	2.55
2422MHz	Pass	AV	4.82396G	30.11	54.00	-23.89	3	Vertical	348	2.21
2422MHz	Pass	AV	7.27536G	34.00	54.00	-20.00	3	Vertical	160	1.50
2422MHz	Pass	PK	4.82372G	42.26	74.00	-31.74	3	Vertical	348	2.21
2422MHz	Pass	PK	7.26656G	47.42	74.00	-26.58	3	Vertical	160	1.50
2422MHz	Pass	AV	4.84748G	30.28	54.00	-23.72	3	Horizontal	298	1.03
2422MHz	Pass	AV	7.26156G	34.18	54.00	-19.82	3	Horizontal	319	1.50
2422MHz	Pass	PK	4.84808G	41.77	74.00	-32.23	3	Horizontal	298	1.03
2422MHz	Pass	PK	7.27896G	46.83	74.00	-27.17	3	Horizontal	319	1.50
2437MHz	Pass	AV	2.3874G	49.01	54.00	-4.99	3	Vertical	27	2.24
2437MHz	Pass	AV	2.4378G	104.31	Inf	-Inf	3	Vertical	27	2.24
2437MHz	Pass	AV	2.4835G	52.76	54.00	-1.24	3	Vertical	27	2.24
2437MHz	Pass	PK	2.3858G	62.67	74.00	-11.33	3	Vertical	27	2.24
2437MHz	Pass	PK	2.4382G	116.02	Inf	-Inf	3	Vertical	27	2.24
2437MHz	Pass	PK	2.4842G	67.56	74.00	-6.44	3	Vertical	27	2.24
2437MHz	Pass	AV	4.87748G	30.20	54.00	-23.80	3	Vertical	323	2.90
2437MHz	Pass	AV	7.30788G	34.42	54.00	-19.58	3	Vertical	310	1.50
2437MHz	Pass	PK	4.87664G	42.52	74.00	-31.48	3	Vertical	323	2.90
2437MHz	Pass	PK	7.33728G	46.75	74.00	-27.25	3	Vertical	310	1.50
2437MHz	Pass	AV	4.8764G	29.73	54.00	-24.27	3	Horizontal	321	1.46
2437MHz	Pass	AV	7.30812G	34.10	54.00	-19.90	3	Horizontal	120	1.50
2437MHz	Pass	PK	4.89872G	41.43	74.00	-32.57	3	Horizontal	321	1.46
2437MHz	Pass	PK	7.335G	47.03	74.00	-26.97	3	Horizontal	120	1.50
2452MHz	Pass	AV	2.3892G	47.69	54.00	-6.31	3	Vertical	23	2.72
2452MHz	Pass	AV	2.4532G	104.49	Inf	-Inf	3	Vertical	23	2.72
2452MHz	Pass	AV	2.496G	53.70	54.00	-0.30	3	Vertical	23	2.72
2452MHz	Pass	PK	2.39G	59.49	74.00	-14.51	3	Vertical	23	2.72
2452MHz	Pass	PK	2.4528G	116.40	Inf	-Inf	3	Vertical	23	2.72
2452MHz	Pass	PK	2.4972G	67.41	74.00	-6.59	3	Vertical	23	2.72
2452MHz	Pass	AV	4.88864G	29.62	54.00	-24.38	3	Vertical	327	2.90
2452MHz	Pass	AV	7.35396G	34.32	54.00	-19.68	3	Vertical	360	1.50
2452MHz	Pass	PK	4.8884G	41.40	74.00	-32.60	3	Vertical	327	2.90
2452MHz	Pass	PK	7.36236G	46.91	74.00	-27.09	3	Vertical	360	1.50
2452MHz	Pass	AV	4.8854G	29.06	54.00	-24.94	3	Horizontal	285	1.50
2452MHz	Pass	AV	7.36956G	34.85	54.00	-19.15	3	Horizontal	299	1.00
2452MHz	Pass	PK	4.88636G	41.38	74.00	-32.62	3	Horizontal	285	1.50
2452MHz	Pass	PK	7.36536G	46.76	74.00	-27.24	3	Horizontal	299	1.00

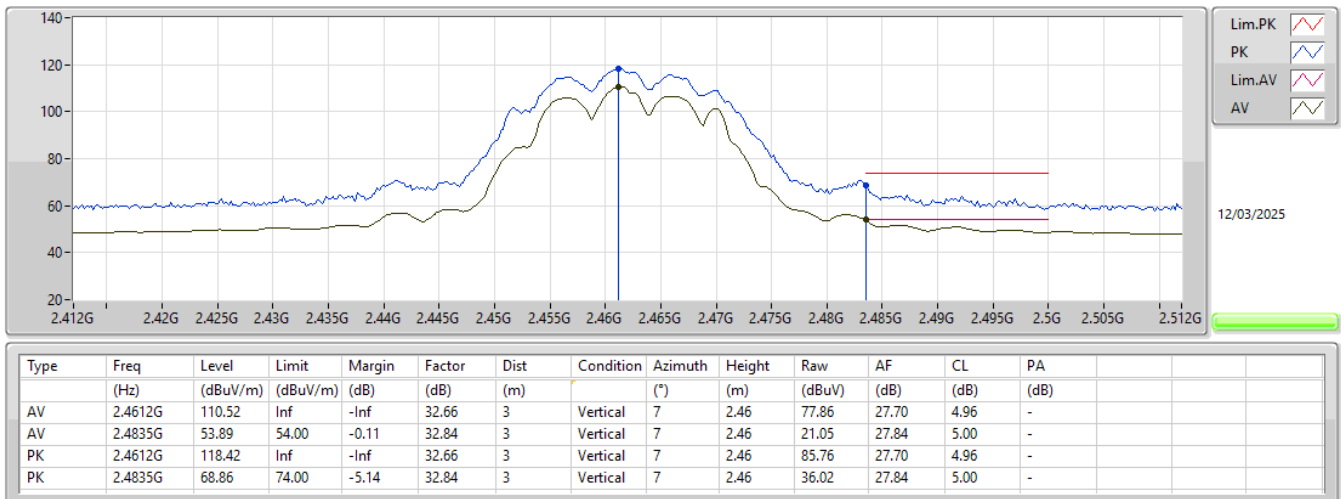
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX



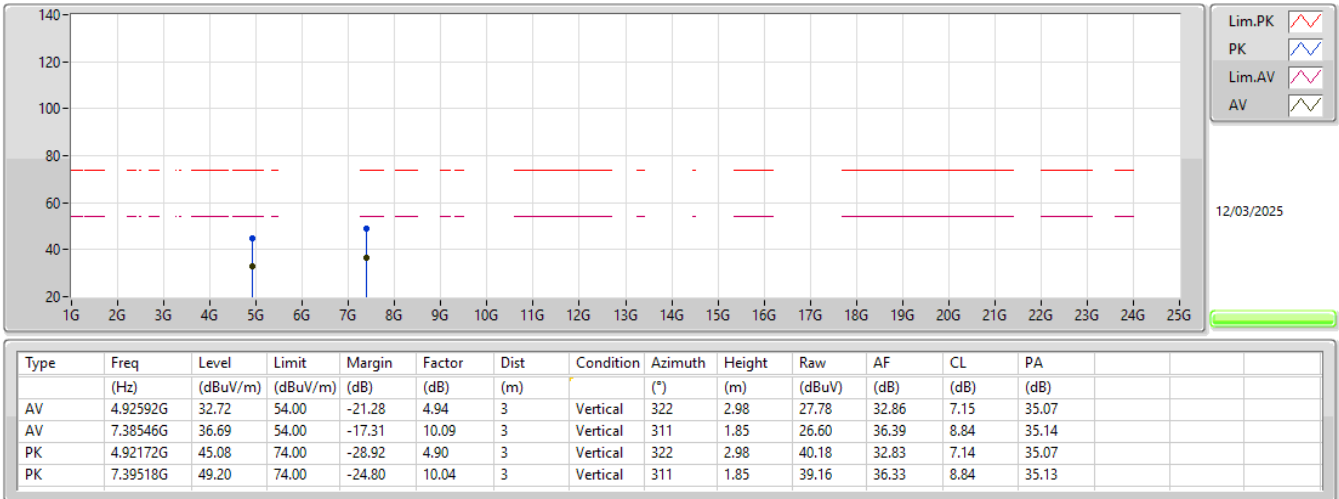
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



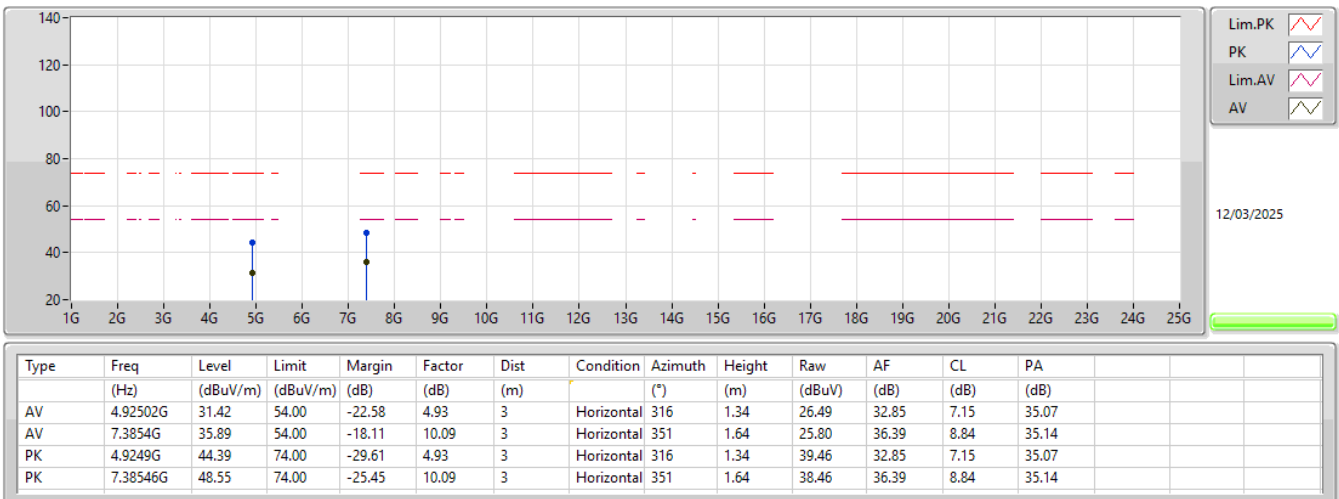
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



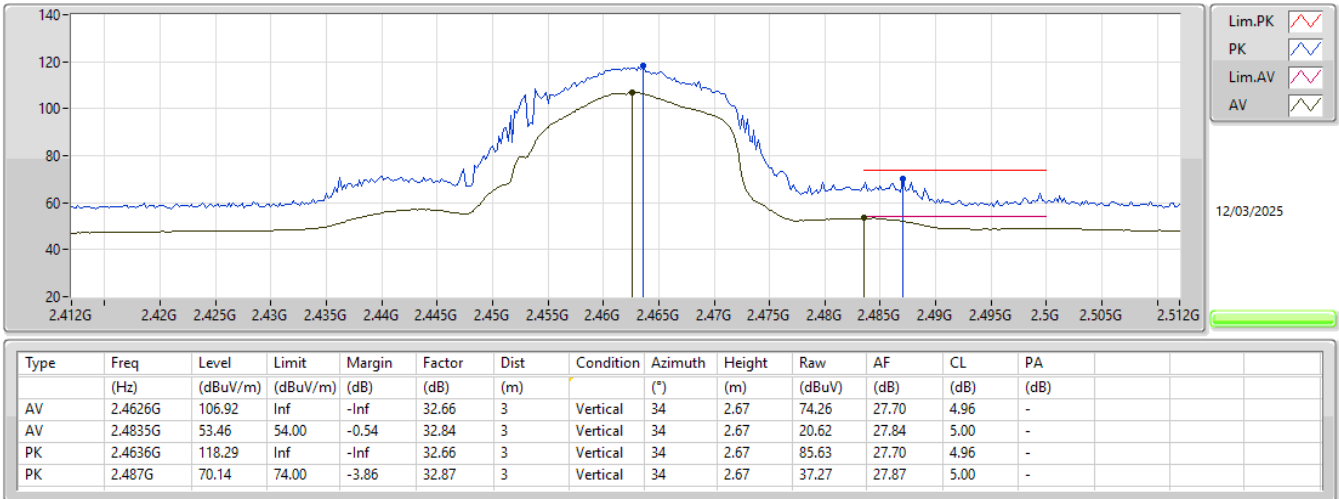
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX



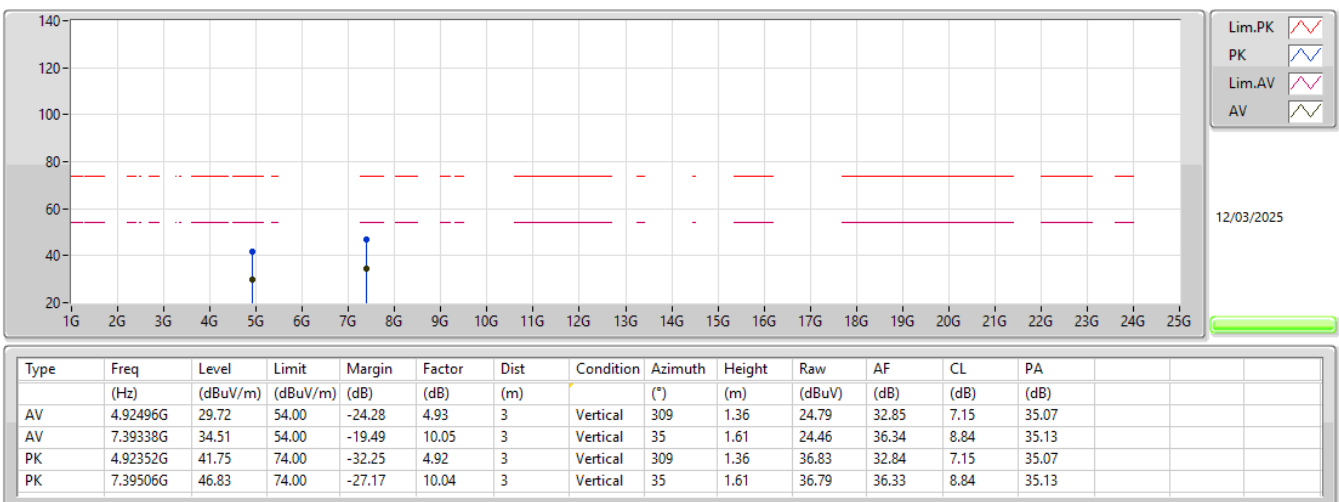
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



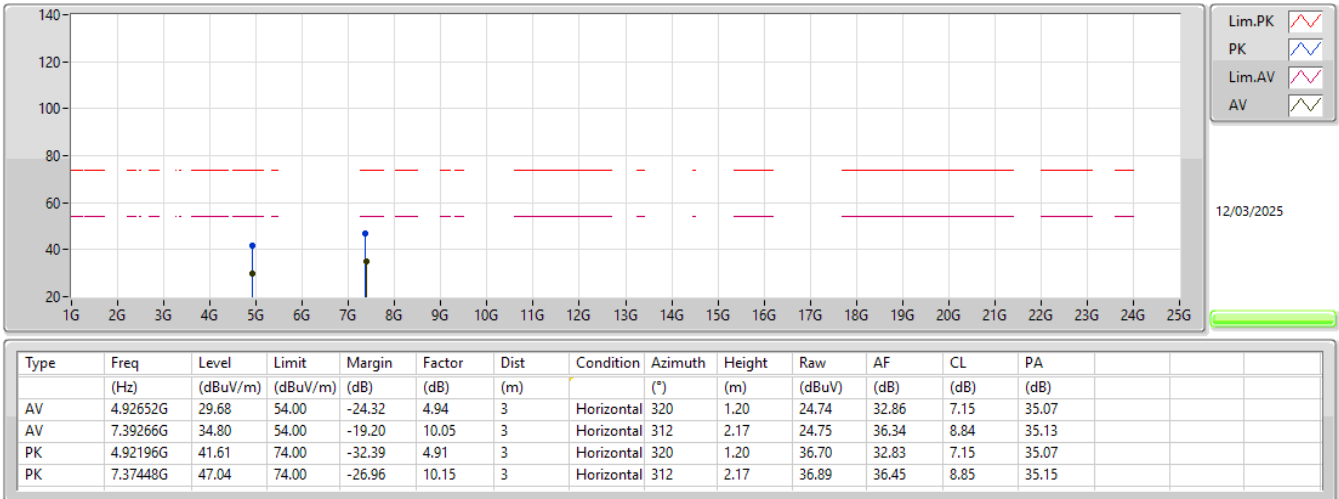
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



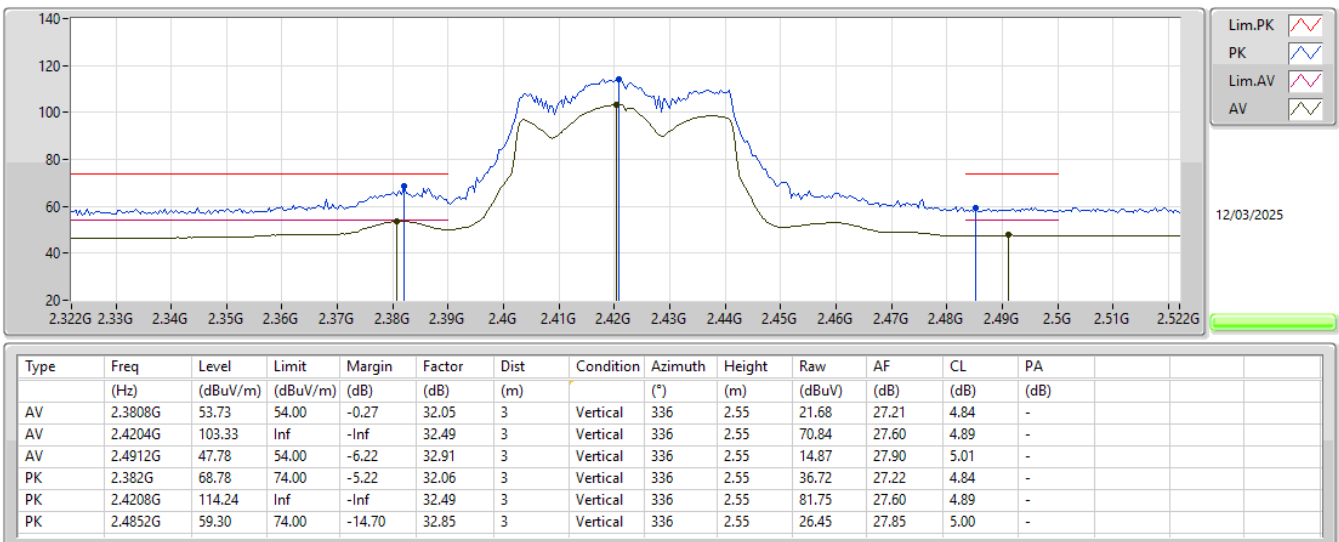
2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_2TX

2462MHz_TX



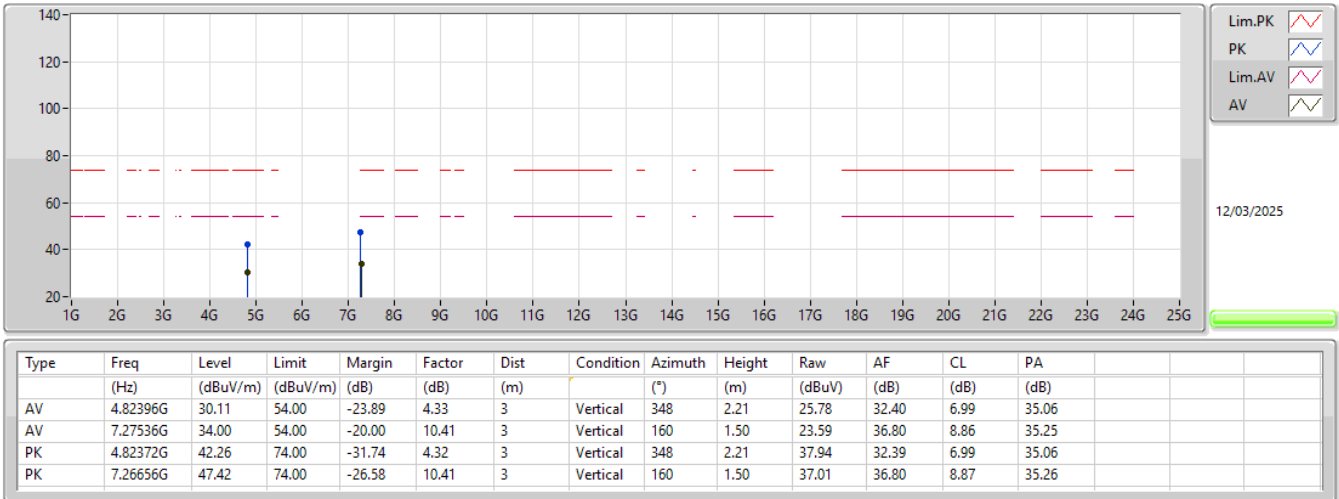
2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2422MHz_TX



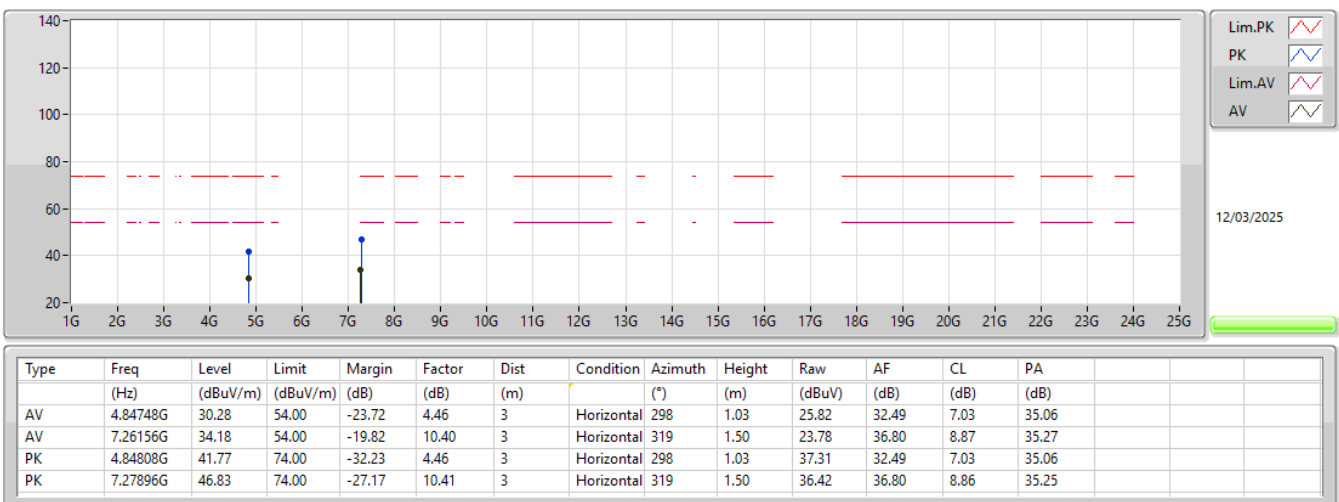
2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_2TX

2422MHz_TX



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

2422MHz_TX





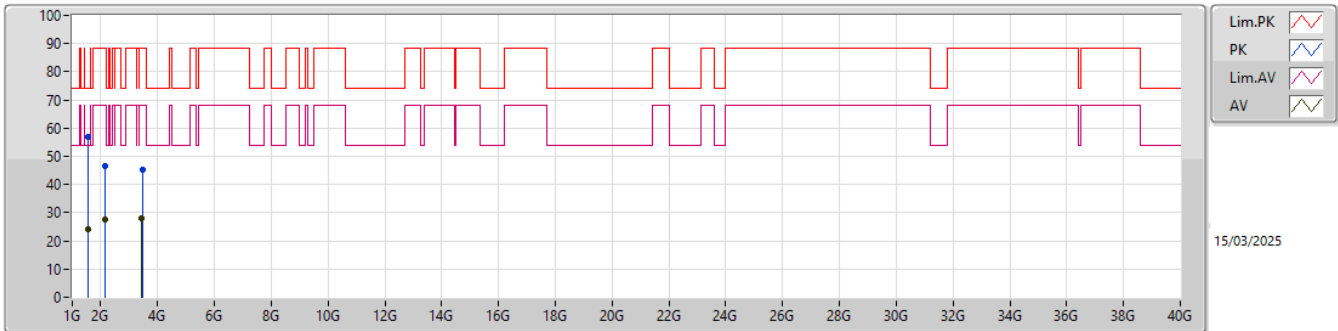
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	1.53492G	56.77	74.00	-17.23	Vertical

Result

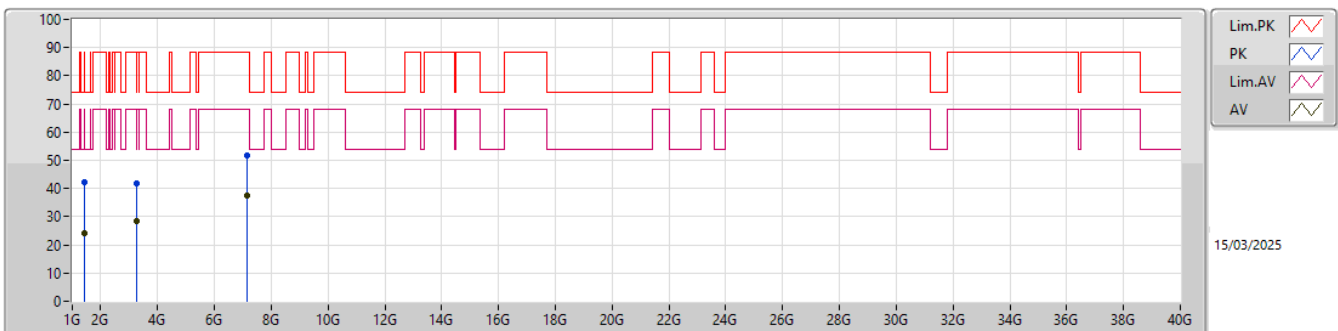
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	1.5393G	24.31	54.00	-29.69	3	Vertical	153	1.58
Mode 1	Pass	AV	2.15443G	27.40	68.20	-40.80	3	Vertical	293	1.50
Mode 1	Pass	AV	3.45578G	28.11	68.20	-40.09	3	Vertical	212	1.76
Mode 1	Pass	PK	1.53492G	56.77	74.00	-17.23	3	Vertical	153	1.58
Mode 1	Pass	PK	2.15295G	46.51	88.20	-41.69	3	Vertical	293	1.50
Mode 1	Pass	PK	3.472732G	45.33	88.20	-42.87	3	Vertical	212	1.76
Mode 1	Pass	AV	1.43958G	24.08	54.00	-29.92	3	Horizontal	220	1.50
Mode 1	Pass	AV	3.25699G	28.30	68.20	-39.90	3	Horizontal	225	2.64
Mode 1	Pass	AV	7.16411G	37.62	68.20	-30.58	3	Horizontal	5	1.23
Mode 1	Pass	PK	1.44001G	42.21	74.00	-31.79	3	Horizontal	220	1.50
Mode 1	Pass	PK	3.26059G	41.70	74.00	-32.30	3	Horizontal	225	2.64
Mode 1	Pass	PK	7.16397G	51.88	88.20	-36.32	3	Horizontal	5	1.23

Radiated Emissions above 1GHz_Mode 1



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	1.5393G	24.31	54.00	-29.69	-3.64	3	Vertical	153	1.58	27.95	25.59	4.35	33.58
AV	2.15443G	27.40	68.20	-40.80	-1.01	3	Vertical	293	1.50	28.41	27.44	5.13	33.58
AV	3.45578G	28.11	68.20	-40.09	2.01	3	Vertical	212	1.76	26.10	29.49	6.65	34.13
PK	1.53492G	56.77	74.00	-17.23	-3.69	3	Vertical	153	1.58	60.46	25.55	4.34	33.58
PK	2.15295G	46.51	88.20	-41.69	-1.02	3	Vertical	293	1.50	47.53	27.43	5.13	33.58
PK	3.472732G	45.33	88.20	-42.87	1.96	3	Vertical	212	1.76	43.37	29.45	6.67	34.16

Radiated Emissions above 1GHz_Mode 1



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	1.43958G	24.08	54.00	-29.92	-3.82	3	Horizontal	220	1.50	27.90	25.70	4.15	33.67
AV	3.25699G	28.30	68.20	-39.90	2.33	3	Horizontal	225	2.64	25.97	29.70	6.41	33.78
AV	7.16411G	37.62	68.20	-30.58	11.85	3	Horizontal	5	1.23	25.77	36.76	9.47	34.38
PK	1.44001G	42.21	74.00	-31.79	-3.82	3	Horizontal	220	1.50	46.03	25.70	4.15	33.67
PK	3.26059G	41.70	74.00	-32.30	2.33	3	Horizontal	225	2.64	39.37	29.70	6.41	33.78
PK	7.16397G	51.88	88.20	-36.32	11.85	3	Horizontal	5	1.23	40.03	36.76	9.47	34.38