

FCC Radio Test Report

FCC ID : WIYS1F4CT001
Equipment : POS Terminal
Brand Name : 
Model Name : S1F4CT
Applicant : CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD.,
XINDIAN DISTRICT, NEW TAIPEI CITY
231030, TAIWAN (R.O.C.)
Manufacturer : CASTLES TECHNOLOGY CO., LTD.
6F, NO. 207-5, SEC. 3, BEIXIN RD.,
XINDIAN DISTRICT, NEW TAIPEI CITY
231030, TAIWAN (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 13, 2026, and testing was started from Aug. 13, 2026 and completed on Aug. 22, 2026. 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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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
FR660205AC	01	Initial issue of report	Oct. 01, 2026

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: Sam Tsai

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)	2412-2462	1-11 [11]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Ant. Type	Connector	Support	Radio
1	Shenzhen RuiDe	SP8566A-WCN	PIFA	I-Pex	2.4G+5G+BT	Radio 1

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			UNII-1	UNII-2A	UNII-2C	UNII-3	
1	1	-2.01	-2.05	-2.2	-2.81	-3.26	-2.01

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

Ant. 1 (port 1) could transmit/receive.

For BT function:

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

Ant. 1 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 1 (port 1) could transmit/receive.

**1.1.3 EUT Information**

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss1,(1Mbps)_1TX	0.996	0.02	8.388m	10Hz (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	0.971	0.13	1.397m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.969	0.14	1.397m	1k

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 C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CON04-HY	Wayne Chiu	20.5~21.8°C / 56~59%	18/Aug/2026
RF Conducted	TH07-HY	Xun Hsieh	23.5~24.0°C / 52~55%	21/Aug/2026~22/Aug/2026
Radiated	03CH03-HY	Simon Cheng	22.5~23.1°C / 51~52%	13/Aug/2026~20/Aug/2026
☐ 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. TW0036 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	3.24 dB	Confidence levels of 95%
Conducted Output Power	1.12 dB	Confidence levels of 95%
Bandwidth	0.07 MHz	Confidence levels of 95%
Conducted Emission	1.12 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	1.76 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.38 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	4.94 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	4.92 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	N/A
-----------------------	-----

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	22
2437MHz	18.5
2462MHz	19
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	20
2417MHz	21
2437MHz	23
2457MHz	20
2462MHz	19
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	19
2417MHz	21
2437MHz	23
2457MHz	20.5
2462MHz	18

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

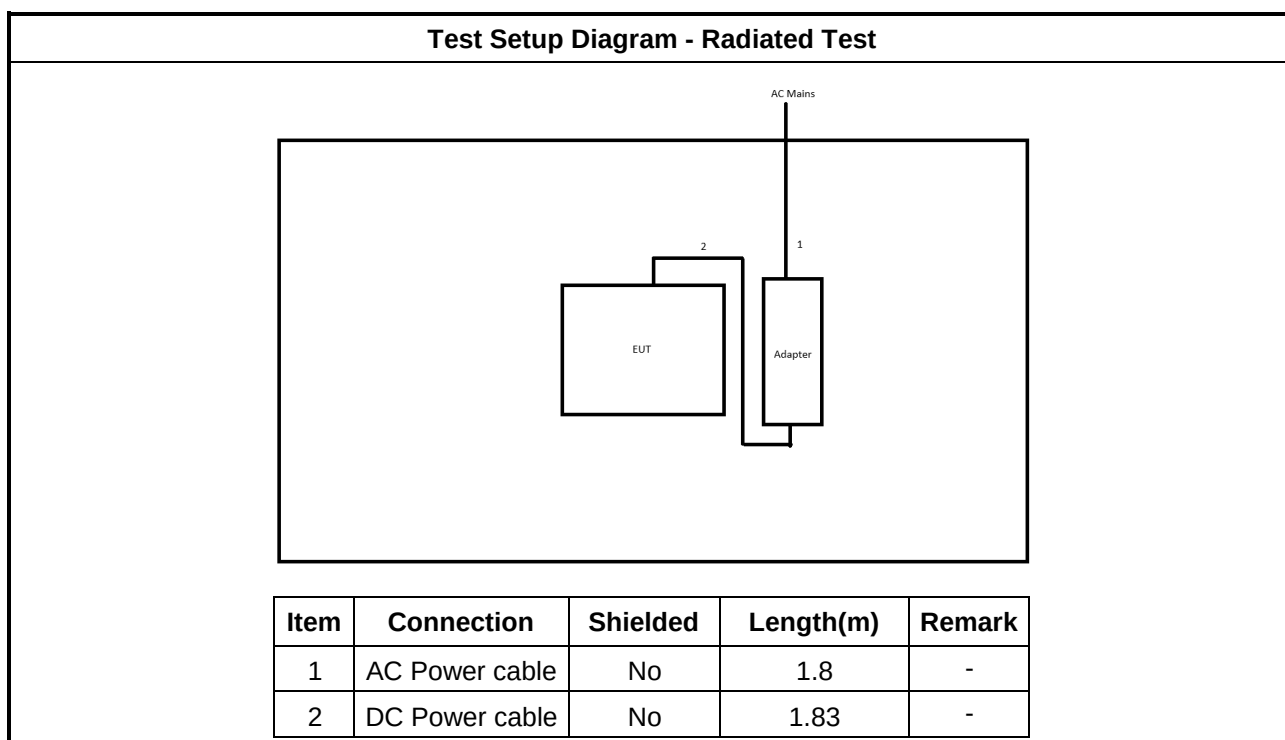
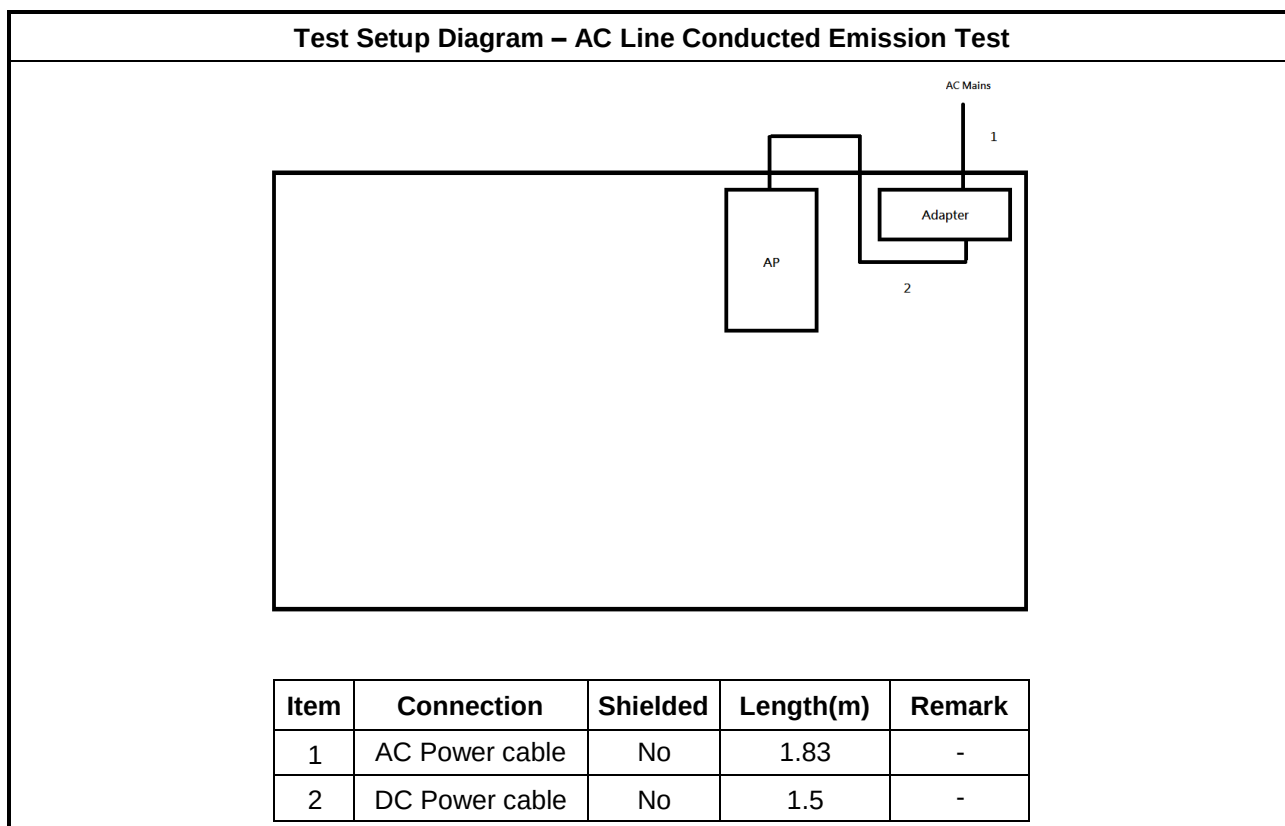
The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should 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		

2.2 Accessories

Accessories				
AC Adapter	Brand Name	CASTLES TECHNOLOGY	Model Name	PW04-945A
	Power Rating	I/P: 100 - 240 Vac, 1 A,O/P: 9 Vdc, 4.5 A		
	Power Cord	1.83 meter, non-shielded cable, w/o ferrite core		

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

2.3 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

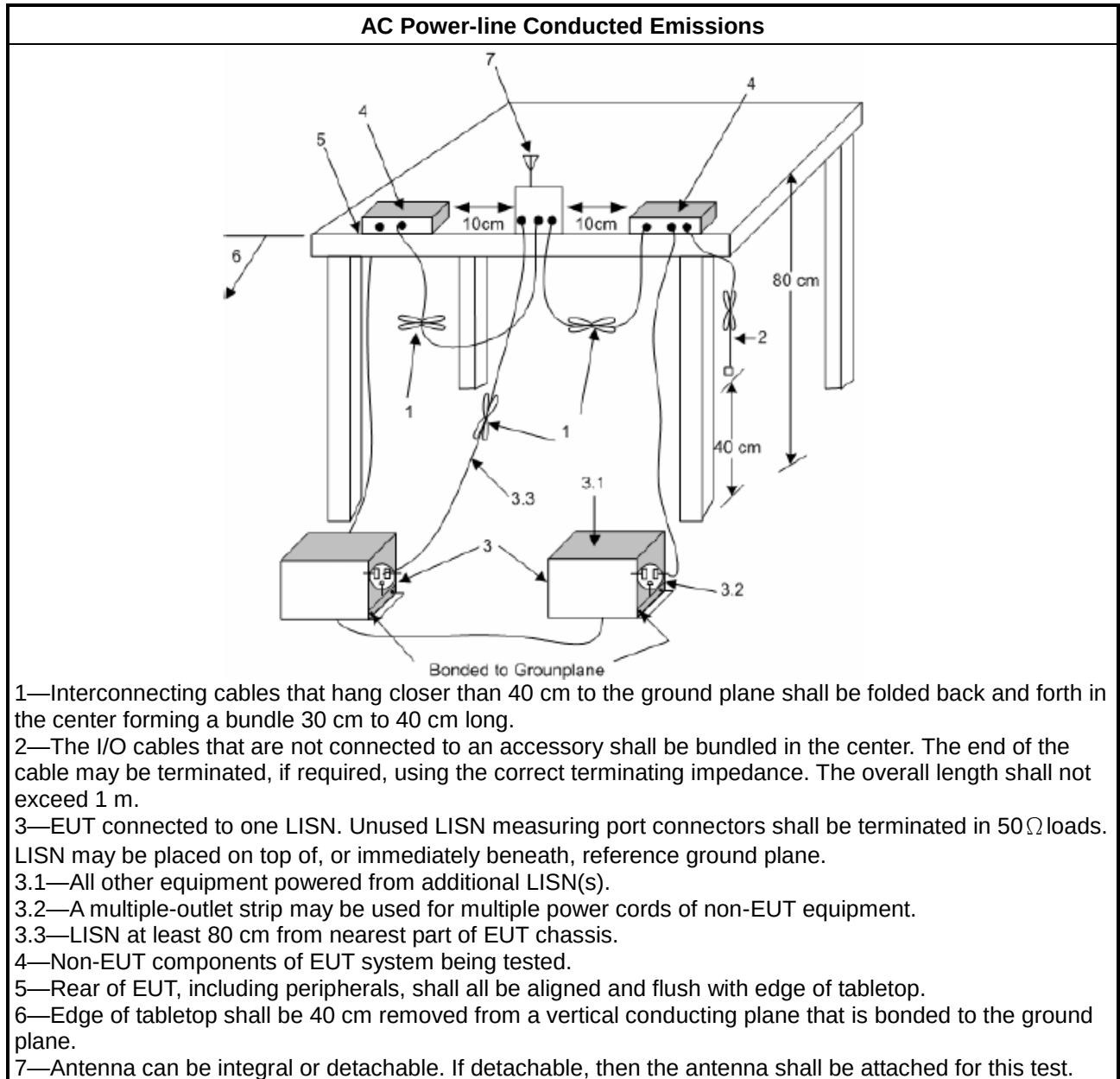
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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.

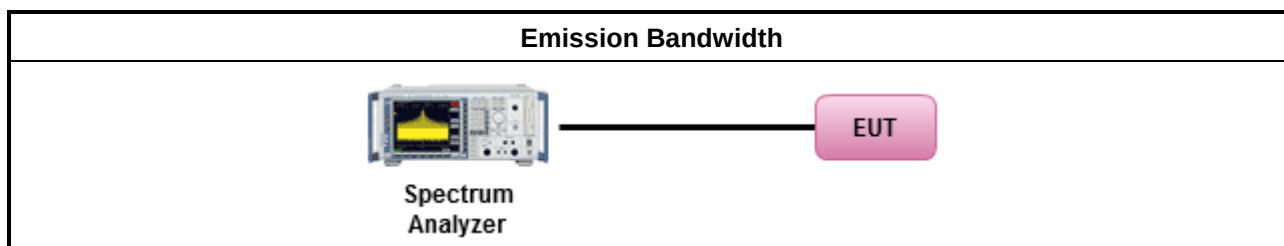
3.2.2 Measuring Instruments

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.	

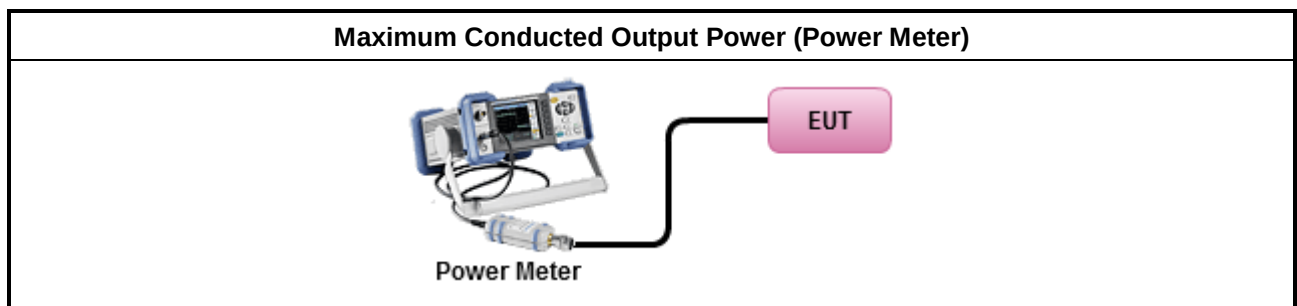
3.3.2 Measuring Instruments

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 integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 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

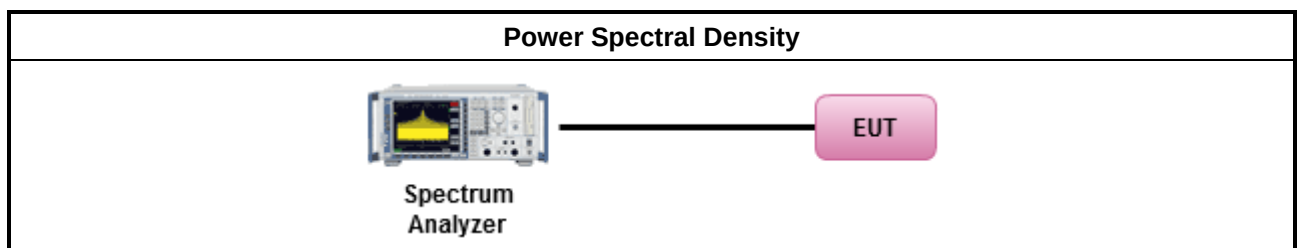
3.4.2 Measuring Instruments

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.	

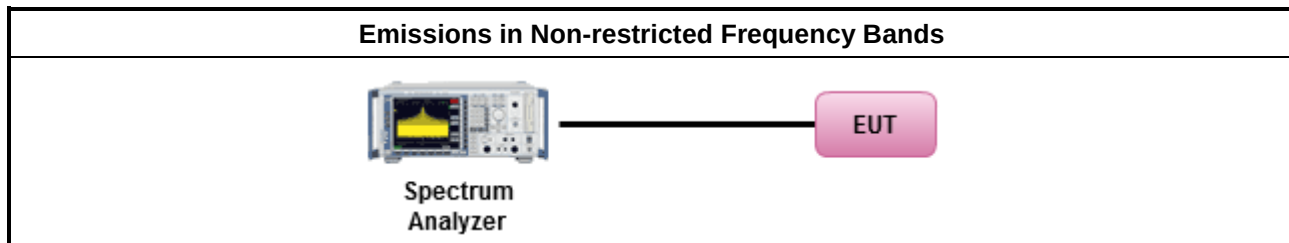
3.5.2 Measuring Instruments

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

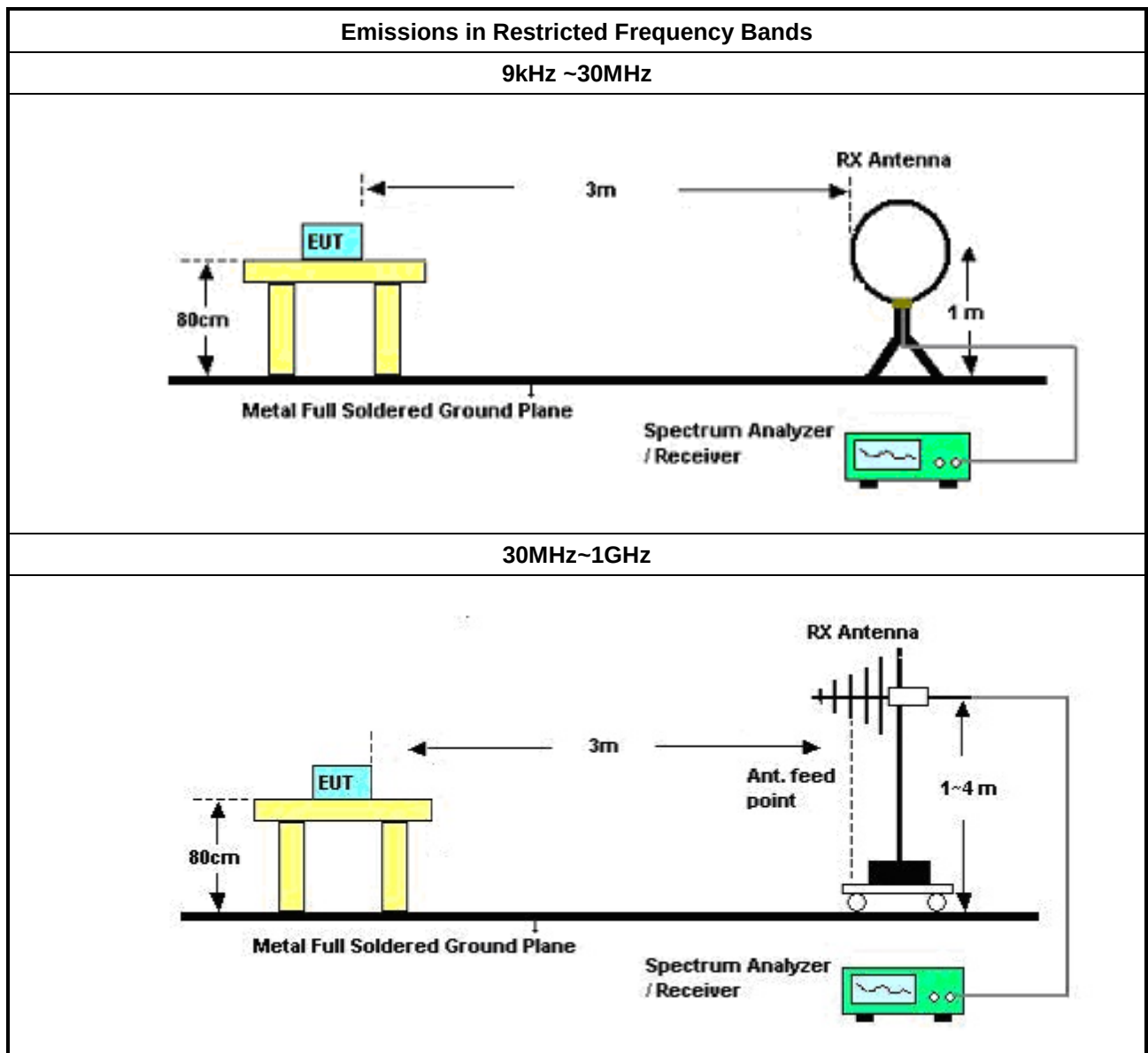
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

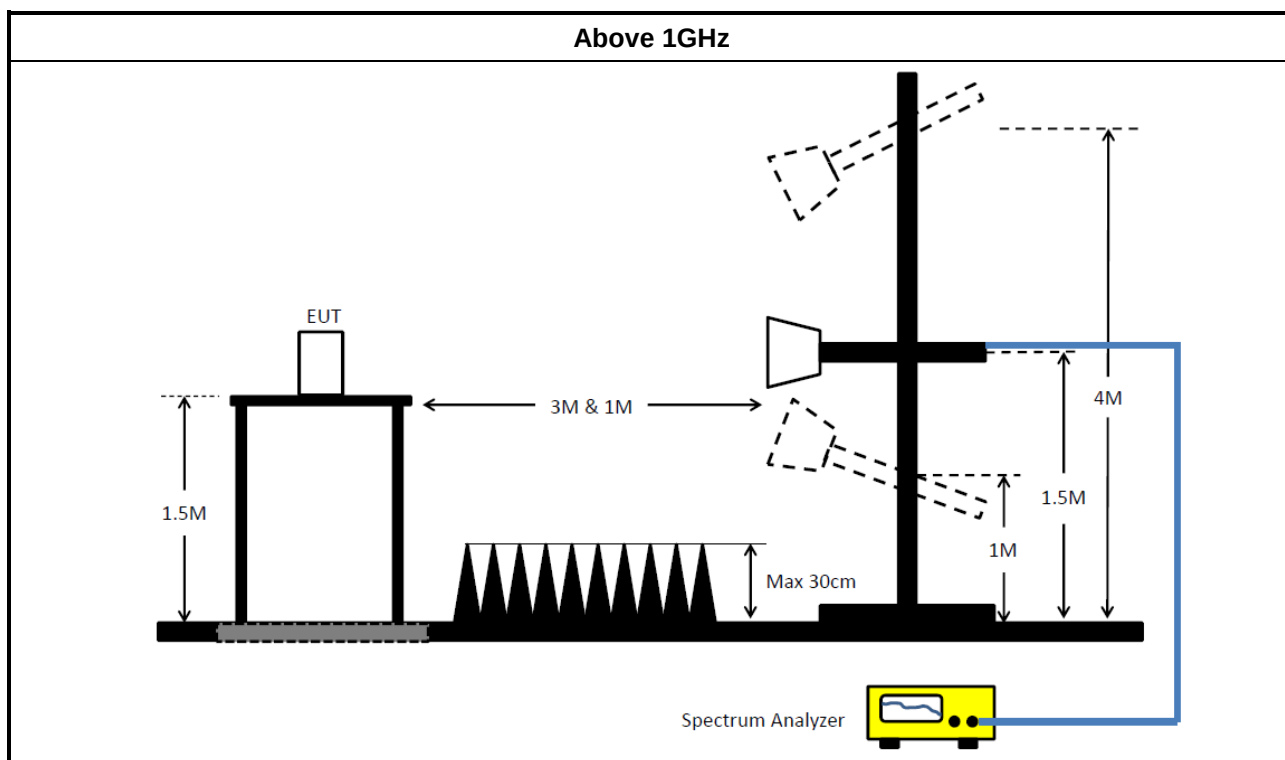
3.6.4 Measurement Results Calculation

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	05/Jun/2026	04/Jun/2027
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	25/Feb/2026	24/Feb/2027
Pulse Limiter	SCHWARZBECK	VTSD 9561F-F	9561-F041	9kHz ~ 30MHz	27/Oct/2025	26/Oct/2026
SENSE-EMI	Sporton	V5.11.6	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	101515	10Hz~40GHz	05/Jan/2026	04/Jan/2027
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	29/Oct/2025	28/Oct/2026
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	17/Dec/2025	16/Dec/2026
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	17/Dec/2025	16/Dec/2026
SENSE-15247_DTS	Sporton	V5.11.28	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	12/Jul/2026	11/Jul/2027
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	12/Jul/2026	11/Jul/2027
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2026	13/May/2027
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101748	10Hz~44GHz	30/Apr/2026	29/Apr/2027
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2026	15/Mar/2027
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	11/Oct/2025	10/Oct/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	28/Oct/2025	27/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	29/Jun/2026	28/Jun/2027
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	9kHz~1GHz	09/Jun/2026	08/Jun/2027
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	18/May/2026	17/May/2027
Amplifier	Agilent	8447D	2944A08033	100kHz~1.3GHz	12/Sep/2025	11/Sep/2026
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	22/Jul/2026	21/Jul/2027
Amplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~ 40GHz	20/May/2026	19/May/2027
SENSE-15247_DTS	Sporton	V5.11.23	NA	NA	NA	NA



Conducted Emissions at Powerline

Appendix A

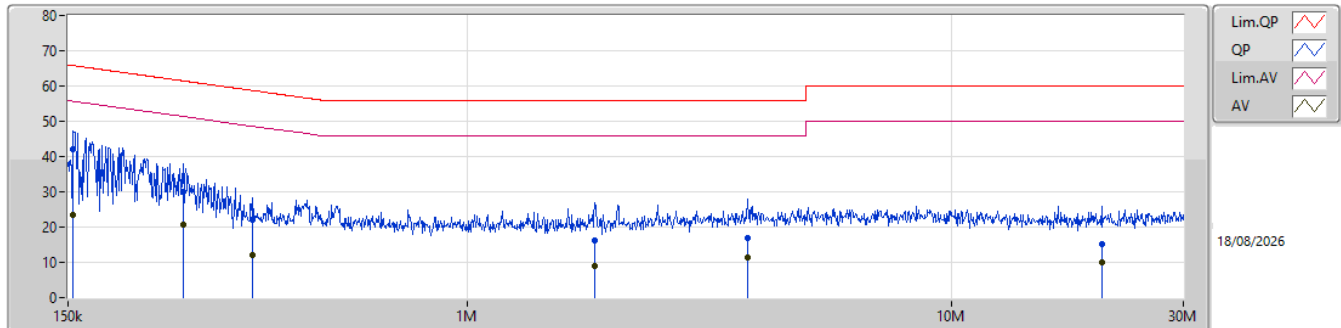
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.64k	42.04	65.81	-23.77	Line

Result

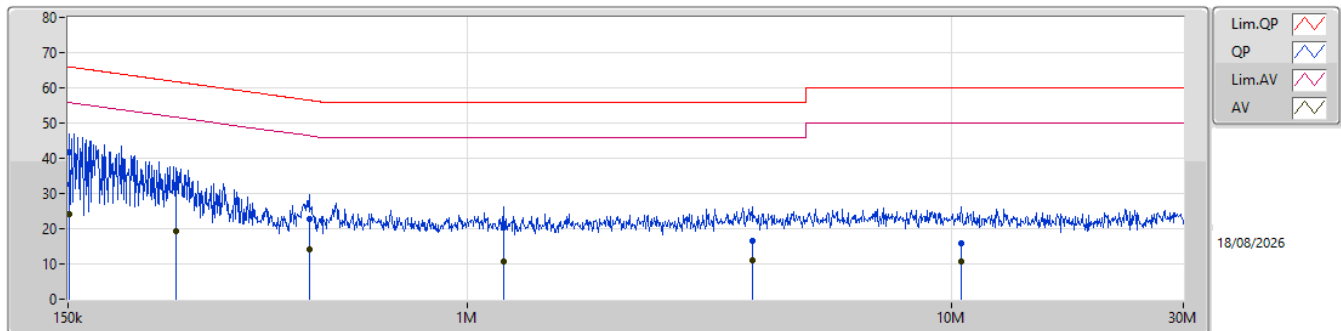
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	153.64k	42.04	65.81	-23.77	Line
Mode 1	Pass	AV	153.64k	23.31	55.81	-32.50	Line
Mode 1	Pass	QP	259.19k	30.10	61.45	-31.35	Line
Mode 1	Pass	AV	259.19k	20.58	51.45	-30.87	Line
Mode 1	Pass	QP	361k	21.92	58.70	-36.78	Line
Mode 1	Pass	AV	361k	12.05	48.70	-36.65	Line
Mode 1	Pass	QP	1.83M	16.31	56.00	-39.69	Line
Mode 1	Pass	AV	1.83M	9.04	46.00	-36.96	Line
Mode 1	Pass	QP	3.79M	17.04	56.00	-38.96	Line
Mode 1	Pass	AV	3.79M	11.31	46.00	-34.69	Line
Mode 1	Pass	QP	20.35M	15.19	60.00	-44.81	Line
Mode 1	Pass	AV	20.35M	10.02	50.00	-39.98	Line
Mode 1	Pass	QP	151.2k	41.64	65.92	-24.28	Neutral
Mode 1	Pass	AV	151.2k	24.10	55.92	-31.82	Neutral
Mode 1	Pass	QP	250.04k	31.56	61.76	-30.20	Neutral
Mode 1	Pass	AV	250.04k	19.35	51.76	-32.41	Neutral
Mode 1	Pass	QP	471.7k	22.62	56.48	-33.86	Neutral
Mode 1	Pass	AV	471.7k	14.19	46.48	-32.29	Neutral
Mode 1	Pass	QP	1.19M	20.37	56.00	-35.63	Neutral
Mode 1	Pass	AV	1.19M	10.69	46.00	-35.31	Neutral
Mode 1	Pass	QP	3.87M	16.68	56.00	-39.32	Neutral
Mode 1	Pass	AV	3.87M	11.10	46.00	-34.90	Neutral
Mode 1	Pass	QP	10.45M	15.92	60.00	-44.08	Neutral
Mode 1	Pass	AV	10.45M	10.79	50.00	-39.21	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	153.64k	42.04	65.81	-23.77	19.79	Line	22.25	9.64	0.17	9.98								
AV	153.64k	23.31	55.81	-32.50	19.79	Line	3.52	9.64	0.17	9.98								
QP	259.19k	30.10	61.45	-31.35	19.77	Line	10.33	9.64	0.12	10.01								
AV	259.19k	20.58	51.45	-30.87	19.77	Line	0.81	9.64	0.12	10.01								
QP	361k	21.92	58.70	-36.78	19.73	Line	2.19	9.63	0.10	10.00								
AV	361k	12.05	48.70	-36.65	19.73	Line	-7.68	9.63	0.10	10.00								
QP	1.83M	16.31	56.00	-39.69	19.66	Line	-3.35	9.65	0.04	9.97								
AV	1.83M	9.04	46.00	-36.96	19.66	Line	-10.62	9.65	0.04	9.97								
QP	3.79M	17.04	56.00	-38.96	19.82	Line	-2.78	9.66	0.12	10.04								
AV	3.79M	11.31	46.00	-34.69	19.82	Line	-8.51	9.66	0.12	10.04								
QP	20.35M	15.19	60.00	-44.81	20.08	Line	-4.89	9.61	0.37	10.10								
AV	20.35M	10.02	50.00	-39.98	20.08	Line	-10.06	9.61	0.37	10.10								

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	151.2k	41.64	65.92	-24.28	19.79	Neutral	21.85	9.64	0.17	9.98								
AV	151.2k	24.10	55.92	-31.82	19.79	Neutral	4.31	9.64	0.17	9.98								
QP	250.04k	31.56	61.76	-30.20	19.76	Neutral	11.80	9.63	0.12	10.01								
AV	250.04k	19.35	51.76	-32.41	19.76	Neutral	-0.41	9.63	0.12	10.01								
QP	471.7k	22.62	56.48	-33.86	19.73	Neutral	2.89	9.63	0.09	10.01								
AV	471.7k	14.19	46.48	-32.29	19.73	Neutral	-5.54	9.63	0.09	10.01								
QP	1.19M	20.37	56.00	-35.63	19.75	Neutral	0.62	9.64	0.06	10.05								
AV	1.19M	10.69	46.00	-35.31	19.75	Neutral	-9.06	9.64	0.06	10.05								
QP	3.87M	16.68	56.00	-39.32	19.84	Neutral	-3.16	9.66	0.13	10.05								
AV	3.87M	11.10	46.00	-34.90	19.84	Neutral	-8.74	9.66	0.13	10.05								
QP	10.45M	15.92	60.00	-44.08	19.87	Neutral	-3.95	9.70	0.25	9.92								
AV	10.45M	10.79	50.00	-39.21	19.87	Neutral	-9.08	9.70	0.25	9.92								

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	8.36M	13.523M	13M5G1D	8.14M	12.487M
802.11g_Nss1,(6Mbps)_1TX	16.225M	22.466M	22M5D1D	13.2M	16.669M
802.11n HT20_Nss1,(MCS0)_1TX	17.38M	24.993M	25M0D1D	13.64M	17.53M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.305M	13.523M
2437MHz	Pass	500k	8.36M	13.114M
2462MHz	Pass	500k	8.14M	12.487M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	13.2M	16.93M
2437MHz	Pass	500k	16.225M	22.466M
2462MHz	Pass	500k	13.695M	16.669M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	13.64M	17.712M
2437MHz	Pass	500k	17.38M	24.993M
2462MHz	Pass	500k	14.245M	17.53M

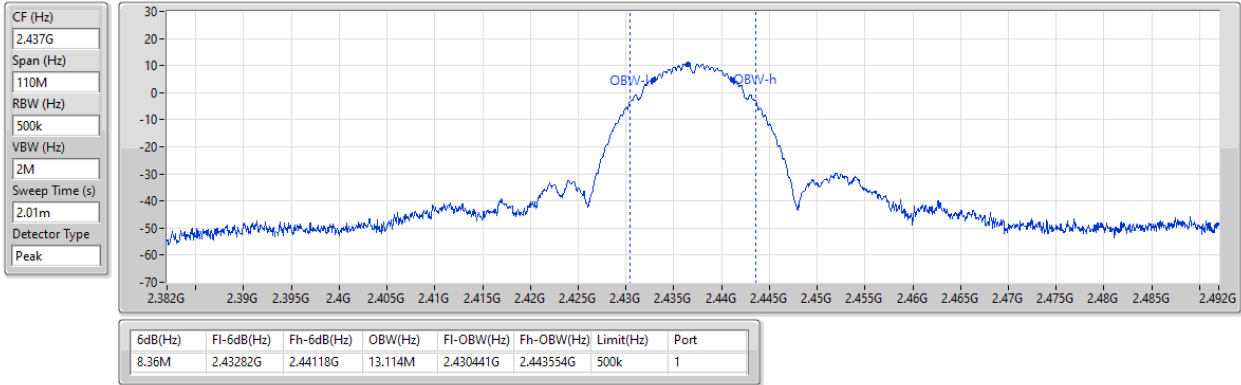
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2437MHz

21/08/2026

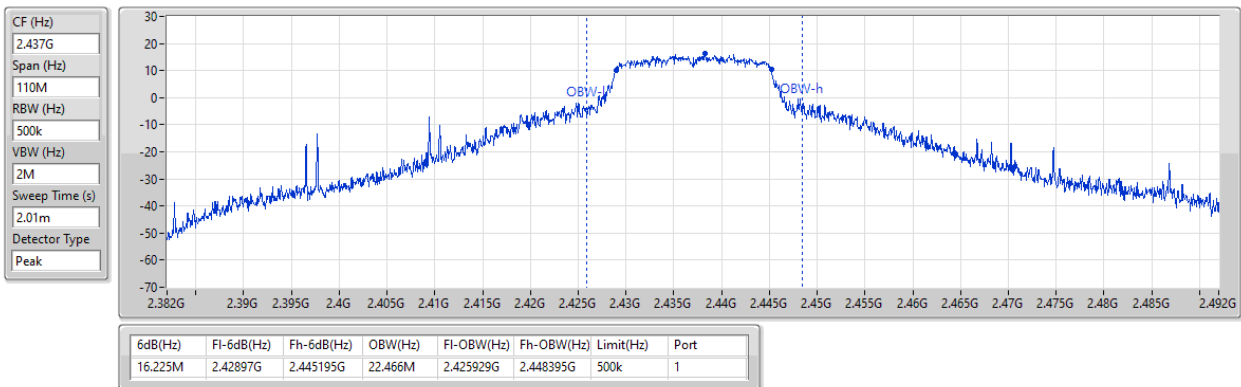


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

21/08/2026



2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

21/08/2026

CF (Hz)
2.437G

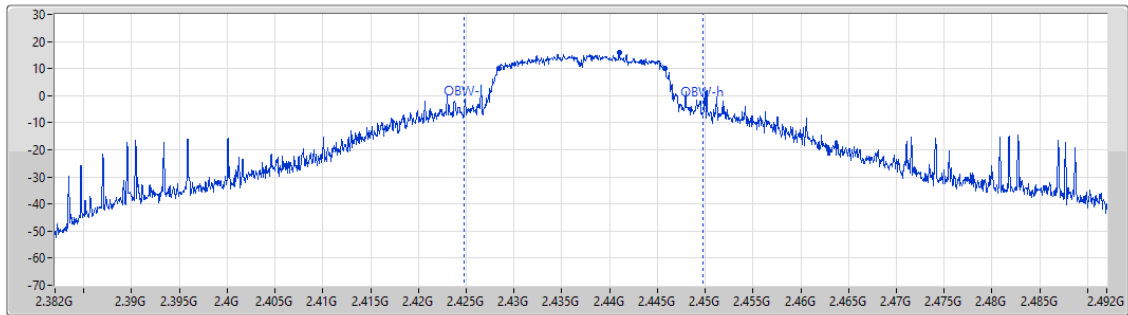
Span (Hz)
110M

RBW (Hz)
500k

VBW (Hz)
2M

Sweep Time (s)
2.01m

Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.38M	2.42842G	2.4458G	24.993M	2.424802G	2.449795G	500k	1



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.64	0.11588
802.11g_Nss1,(6Mbps)_1TX	21.86	0.15346
802.11n HT20_Nss1,(MCS0)_1TX	21.90	0.15488

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-2.01	20.64	20.64	30.00
2437MHz	Pass	-2.01	17.69	17.69	30.00
2462MHz	Pass	-2.01	17.49	17.49	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-2.01	18.44	18.44	30.00
2417MHz	Pass	-2.01	19.63	19.63	30.00
2437MHz	Pass	-2.01	21.86	21.86	30.00
2457MHz	Pass	-2.01	18.18	18.18	30.00
2462MHz	Pass	-2.01	17.43	17.43	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-2.01	17.47	17.47	30.00
2417MHz	Pass	-2.01	19.52	19.52	30.00
2437MHz	Pass	-2.01	21.90	21.90	30.00
2457MHz	Pass	-2.01	18.63	18.63	30.00
2462MHz	Pass	-2.01	16.59	16.59	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-2.82
802.11g_Nss1,(6Mbps)_1TX	-1.67
802.11n HT20_Nss1,(MCS0)_1TX	-3.58

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-2.01	-2.82	-2.82	8.00
2437MHz	Pass	-2.01	-6.07	-6.07	8.00
2462MHz	Pass	-2.01	-5.62	-5.62	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-2.01	-5.68	-5.68	8.00
2437MHz	Pass	-2.01	-1.67	-1.67	8.00
2462MHz	Pass	-2.01	-6.02	-6.02	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-2.01	-6.79	-6.79	8.00
2437MHz	Pass	-2.01	-3.58	-3.58	8.00
2462MHz	Pass	-2.01	-6.78	-6.78	8.00

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

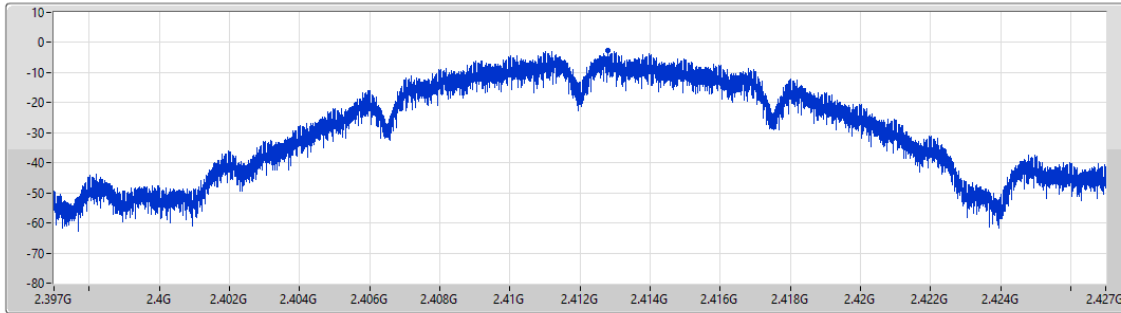
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

21/08/2026

CF (Hz)
2.412G
Span (Hz)
30M
RBW (Hz)
3k
VBW (Hz)
10k
Sweep Time (s)
1.4m
Detector Type
Peak



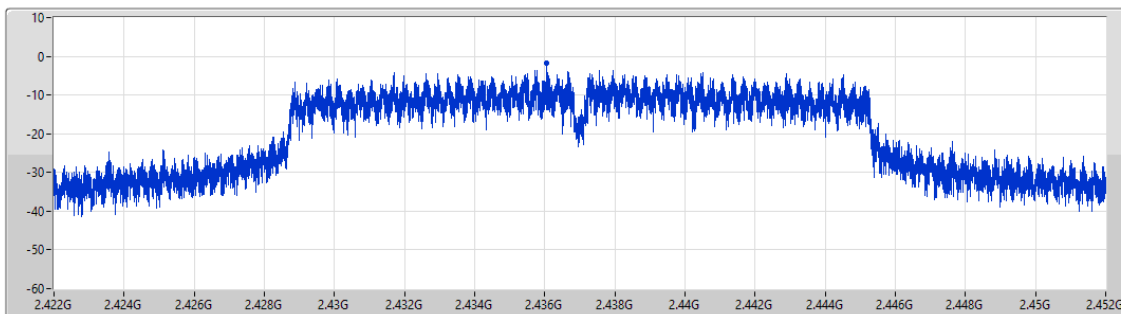
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

21/08/2026

CF (Hz)
2.437G
Span (Hz)
30M
RBW (Hz)
3k
VBW (Hz)
10k
Sweep Time (s)
1.4m
Detector Type
Peak

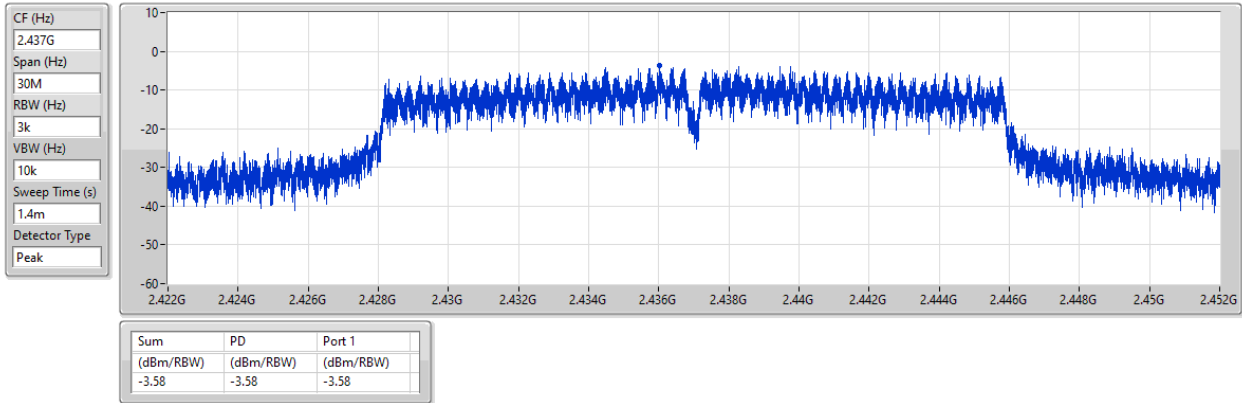


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

21/08/2026





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41303G	13.22	-16.78	2.19108G	-50.54	2.39856G	-28.45	2.4G	-32.89	2.5087G	-51.14	21.9741G	-38.58	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43574G	12.52	-17.48	2.10953G	-50.79	2.39752G	-23.96	2.4G	-26.74	2.51942G	-50.67	21.96005G	-38.23	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43574G	12.41	-17.59	2.13749G	-50.78	2.39632G	-24.73	2.4G	-29.92	2.51206G	-50.77	22.00501G	-38.68	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41303G	13.22	-16.78	2.19108G	-50.54	2.39856G	-28.45	2.4G	-32.89	2.5087G	-51.14	21.9741G	-38.58	1
2437MHz	Pass	2.41303G	13.22	-16.78	2.14215G	-50.87	2.3964G	-48.63	2.4G	-52.62	2.50718G	-51.36	21.98815G	-39.28	1
2462MHz	Pass	2.41303G	13.22	-16.78	2.11885G	-51.11	2.39824G	-50.65	2.4G	-53.52	2.52182G	-50.65	21.88139G	-39.46	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	12.52	-17.48	2.14797G	-49.64	2.3996G	-24.19	2.4G	-24.21	2.51526G	-50.99	21.91229G	-38.55	1
2437MHz	Pass	2.43574G	12.52	-17.48	2.10953G	-50.79	2.39752G	-23.96	2.4G	-26.74	2.51942G	-50.67	21.96005G	-38.23	1
2462MHz	Pass	2.43574G	12.52	-17.48	1.95109G	-50.58	2.39048G	-49.69	2.4G	-51.55	2.51502G	-50.47	21.99377G	-38.62	1
802.11n_HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	12.41	-17.59	2.08856G	-50.72	2.39936G	-27.65	2.4G	-25.07	2.50358G	-51.08	21.90667G	-37.95	1
2437MHz	Pass	2.43574G	12.41	-17.59	2.13749G	-50.78	2.39632G	-24.73	2.4G	-29.92	2.51206G	-50.77	22.00501G	-38.68	1
2462MHz	Pass	2.43574G	12.41	-17.59	2.15962G	-50.60	2.39032G	-49.06	2.4G	-51.78	2.5019G	-51.07	21.91229G	-39.51	1

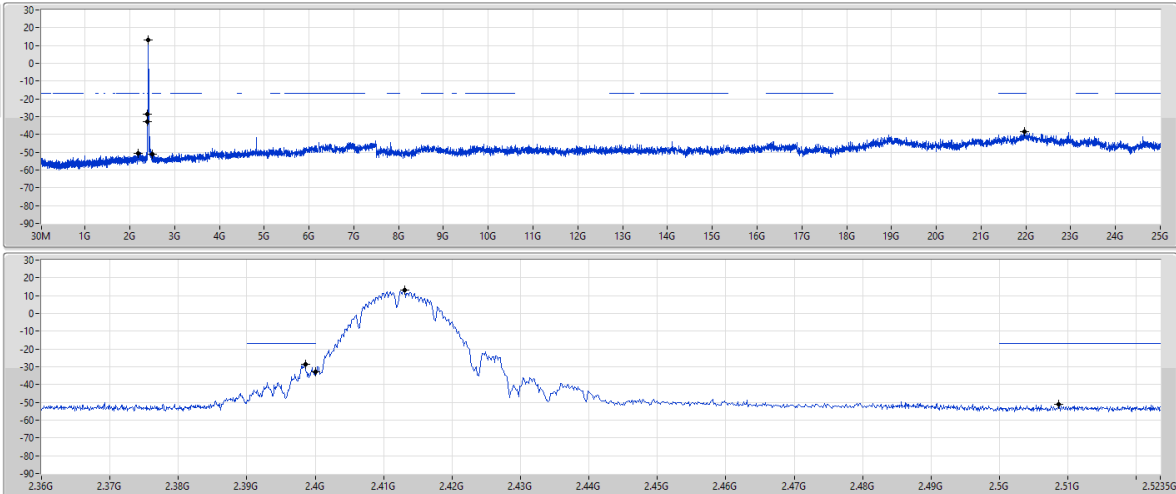
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

21/08/2026

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



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41303G	13.22	-16.78	2.19108G	-50.54	2.39856G	-28.45	2.4G	-32.89	2.5087G	-51.14	2.19741G	-38.58	1

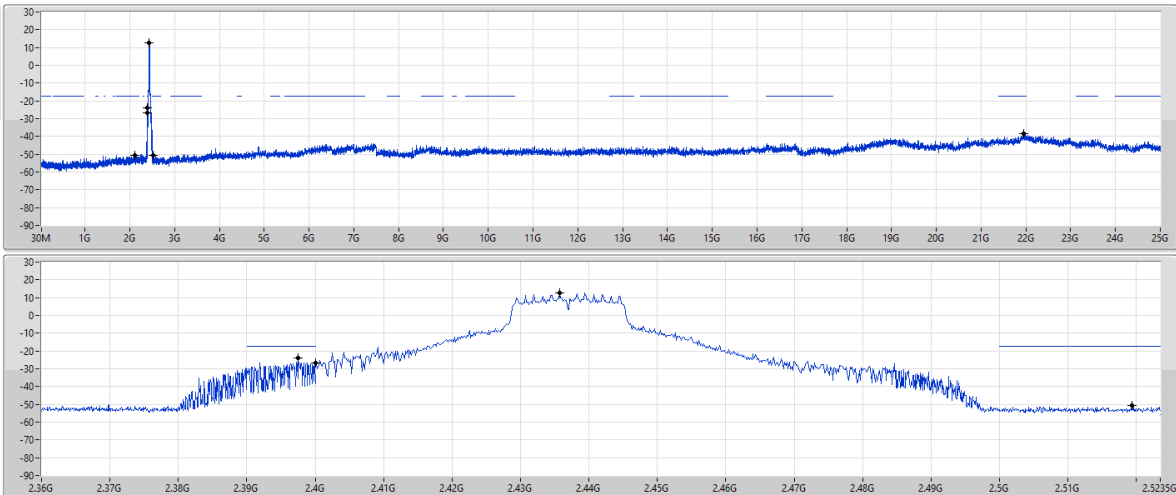
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2437MHz

21/08/2026

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



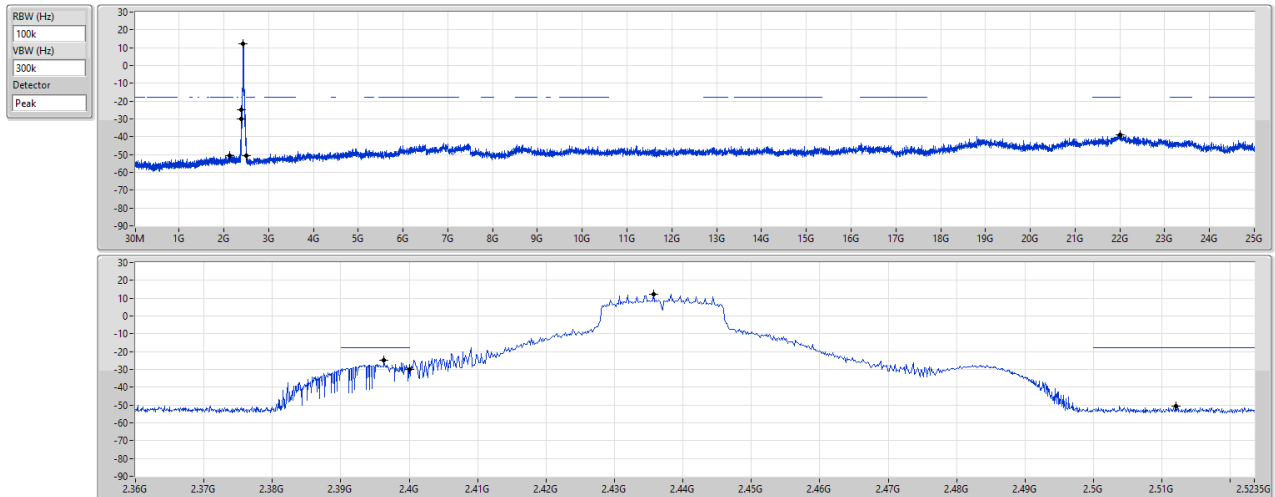
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43574G	12.52	-17.48	2.10953G	-50.79	2.39752G	-23.96	2.4G	-26.74	2.51942G	-50.67	2.196005G	-38.23	1

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

2437MHz

21/08/2026



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	12.41	-17.59	2.13749G	-50.78	2.39632G	-24.73	2.4G	-29.92	2.51206G	-50.77	22.00501G	-38.68	1



Summary

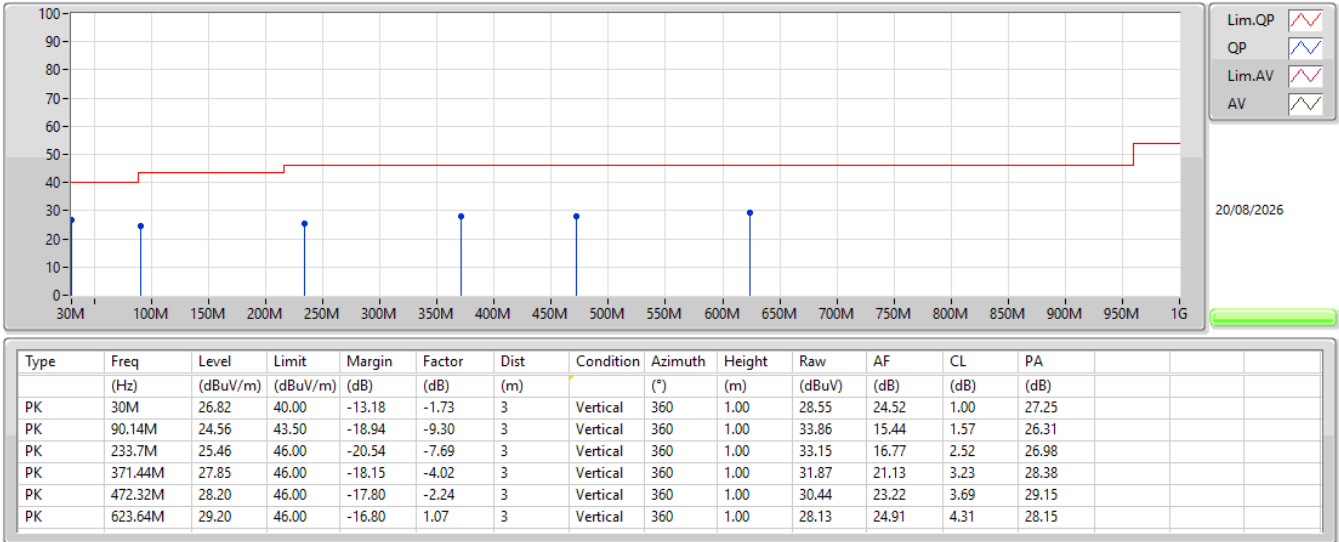
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	33.88M	32.76	40.00	-7.24	3	Horizontal	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11n HT20_Nss1(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	26.82	40.00	-13.18	3	Vertical	360	1.00
2437MHz	Pass	PK	90.14M	24.56	43.50	-18.94	3	Vertical	360	1.00
2437MHz	Pass	PK	233.7M	25.46	46.00	-20.54	3	Vertical	360	1.00
2437MHz	Pass	PK	371.44M	27.85	46.00	-18.15	3	Vertical	360	1.00
2437MHz	Pass	PK	472.32M	28.20	46.00	-17.80	3	Vertical	360	1.00
2437MHz	Pass	PK	623.64M	29.20	46.00	-16.80	3	Vertical	360	1.00
2437MHz	Pass	PK	33.88M	32.76	40.00	-7.24	3	Horizontal	0	1.00
2437MHz	Pass	PK	134.76M	28.13	43.50	-15.37	3	Horizontal	0	1.00
2437MHz	Pass	PK	233.7M	35.47	46.00	-10.53	3	Horizontal	0	1.00
2437MHz	Pass	PK	299.66M	34.03	46.00	-11.97	3	Horizontal	0	1.00
2437MHz	Pass	PK	400.54M	31.40	46.00	-14.60	3	Horizontal	0	1.00
2437MHz	Pass	PK	555.74M	29.85	46.00	-16.15	3	Horizontal	0	1.00

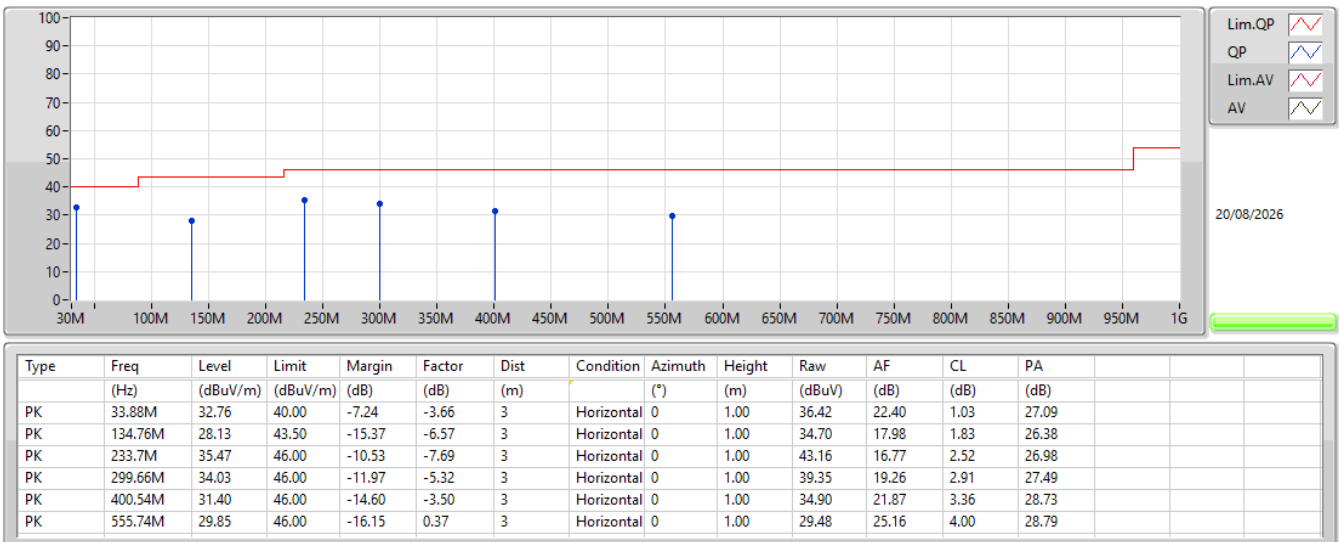
2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2437MHz_Adapter



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

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)_1TX	Pass	AV	4.92396G	53.71	54.00	-0.29	3	Vertical	227	2.02
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	53.73	54.00	-0.27	3	Horizontal	177	1.07
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.74	54.00	-0.26	3	Horizontal	183	2.70

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	46.68	54.00	-7.32	3	Vertical	262	2.08
2412MHz	Pass	AV	2.4128G	105.72	Inf	-Inf	3	Vertical	262	2.08
2412MHz	Pass	PK	2.3884G	58.74	74.00	-15.26	3	Vertical	262	2.08
2412MHz	Pass	PK	2.4128G	108.12	Inf	-Inf	3	Vertical	262	2.08
2412MHz	Pass	AV	2.39G	47.41	54.00	-6.59	3	Horizontal	185	2.85
2412MHz	Pass	AV	2.4128G	107.99	Inf	-Inf	3	Horizontal	185	2.85
2412MHz	Pass	PK	2.3898G	58.35	74.00	-15.65	3	Horizontal	185	2.85
2412MHz	Pass	PK	2.4128G	110.40	Inf	-Inf	3	Horizontal	185	2.85
2412MHz	Pass	AV	4.82398G	51.06	54.00	-2.94	3	Vertical	166	1.36
2412MHz	Pass	PK	4.824G	54.38	74.00	-19.62	3	Vertical	166	1.36
2412MHz	Pass	AV	4.82398G	53.66	54.00	-0.34	3	Horizontal	168	2.26
2412MHz	Pass	PK	4.82398G	56.60	74.00	-17.40	3	Horizontal	168	2.26
2437MHz	Pass	AV	2.3898G	45.55	54.00	-8.45	3	Vertical	268	1.84
2437MHz	Pass	AV	2.4362G	101.91	Inf	-Inf	3	Vertical	268	1.84
2437MHz	Pass	AV	2.4854G	46.39	54.00	-7.61	3	Vertical	268	1.84
2437MHz	Pass	PK	2.3654G	57.43	74.00	-16.57	3	Vertical	268	1.84
2437MHz	Pass	PK	2.4362G	104.33	Inf	-Inf	3	Vertical	268	1.84
2437MHz	Pass	PK	2.4838G	58.14	74.00	-15.86	3	Vertical	268	1.84
2437MHz	Pass	AV	2.389G	45.72	54.00	-8.28	3	Horizontal	188	3.00
2437MHz	Pass	AV	2.4378G	105.60	Inf	-Inf	3	Horizontal	188	3.00
2437MHz	Pass	AV	2.4835G	46.90	54.00	-7.10	3	Horizontal	188	3.00
2437MHz	Pass	PK	2.3742G	57.83	74.00	-16.17	3	Horizontal	188	3.00
2437MHz	Pass	PK	2.4378G	108.06	Inf	-Inf	3	Horizontal	188	3.00
2437MHz	Pass	PK	2.4858G	58.87	74.00	-15.13	3	Horizontal	188	3.00
2437MHz	Pass	AV	4.87398G	48.68	54.00	-5.32	3	Vertical	160	1.00
2437MHz	Pass	PK	4.87394G	53.05	74.00	-20.95	3	Vertical	160	1.00
2437MHz	Pass	AV	4.87398G	53.34	54.00	-0.66	3	Horizontal	182	2.21
2437MHz	Pass	PK	4.87406G	56.27	74.00	-17.73	3	Horizontal	182	2.21
2462MHz	Pass	AV	2.4612G	102.48	Inf	-Inf	3	Vertical	267	1.50
2462MHz	Pass	AV	2.4864G	46.65	54.00	-7.35	3	Vertical	267	1.50
2462MHz	Pass	PK	2.461G	104.93	Inf	-Inf	3	Vertical	267	1.50
2462MHz	Pass	PK	2.498G	58.69	74.00	-15.31	3	Vertical	267	1.50
2462MHz	Pass	AV	2.4612G	104.82	Inf	-Inf	3	Horizontal	175	1.06
2462MHz	Pass	AV	2.4866G	47.27	54.00	-6.73	3	Horizontal	175	1.06
2462MHz	Pass	PK	2.461G	107.27	Inf	-Inf	3	Horizontal	175	1.06
2462MHz	Pass	PK	2.4906G	59.24	74.00	-14.76	3	Horizontal	175	1.06
2462MHz	Pass	AV	4.92396G	53.71	54.00	-0.29	3	Vertical	227	2.02
2462MHz	Pass	PK	4.92402G	56.63	74.00	-17.37	3	Vertical	227	2.02
2462MHz	Pass	AV	4.924G	52.19	54.00	-1.81	3	Horizontal	181	2.00
2462MHz	Pass	PK	4.92396G	55.62	74.00	-18.38	3	Horizontal	181	2.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.03	54.00	-1.97	3	Vertical	257	2.52
2412MHz	Pass	AV	2.4134G	99.87	Inf	-Inf	3	Vertical	257	2.52
2412MHz	Pass	PK	2.3896G	68.83	74.00	-5.17	3	Vertical	257	2.52
2412MHz	Pass	PK	2.4138G	109.03	Inf	-Inf	3	Vertical	257	2.52
2412MHz	Pass	AV	2.39G	53.38	54.00	-0.62	3	Horizontal	176	1.12
2412MHz	Pass	AV	2.413G	101.86	Inf	-Inf	3	Horizontal	176	1.12
2412MHz	Pass	PK	2.3894G	67.76	74.00	-6.24	3	Horizontal	176	1.12
2412MHz	Pass	PK	2.4136G	110.90	Inf	-Inf	3	Horizontal	176	1.12
2412MHz	Pass	AV	4.82496G	38.32	54.00	-15.68	3	Vertical	154	1.11
2412MHz	Pass	PK	4.82232G	50.56	74.00	-23.44	3	Vertical	154	1.11
2412MHz	Pass	AV	4.82616G	42.99	54.00	-11.01	3	Horizontal	171	2.22
2412MHz	Pass	PK	4.83012G	56.19	74.00	-17.81	3	Horizontal	171	2.22
2417MHz	Pass	AV	2.39G	51.79	54.00	-2.21	3	Vertical	256	2.52
2417MHz	Pass	AV	2.4176G	101.57	Inf	-Inf	3	Vertical	256	2.52
2417MHz	Pass	PK	2.3888G	70.97	74.00	-3.03	3	Vertical	256	2.52
2417MHz	Pass	PK	2.4184G	110.09	Inf	-Inf	3	Vertical	256	2.52
2417MHz	Pass	AV	2.39G	52.60	54.00	-1.40	3	Horizontal	182	2.52
2417MHz	Pass	AV	2.416G	103.73	Inf	-Inf	3	Horizontal	182	2.52
2417MHz	Pass	PK	2.3896G	72.37	74.00	-1.63	3	Horizontal	182	2.52

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2417MHz	Pass	PK	2.4152G	112.48	Inf	-Inf	3	Horizontal	182	2.52
2437MHz	Pass	AV	2.3898G	47.95	54.00	-6.05	3	Vertical	267	1.85
2437MHz	Pass	AV	2.4362G	102.39	Inf	-Inf	3	Vertical	267	1.85
2437MHz	Pass	AV	2.4835G	48.18	54.00	-5.82	3	Vertical	267	1.85
2437MHz	Pass	PK	2.3882G	61.80	74.00	-12.20	3	Vertical	267	1.85
2437MHz	Pass	PK	2.4358G	111.22	Inf	-Inf	3	Vertical	267	1.85
2437MHz	Pass	PK	2.485G	59.60	74.00	-14.40	3	Vertical	267	1.85
2437MHz	Pass	AV	2.3898G	48.73	54.00	-5.27	3	Horizontal	192	3.00
2437MHz	Pass	AV	2.4378G	105.63	Inf	-Inf	3	Horizontal	192	3.00
2437MHz	Pass	AV	2.4838G	49.65	54.00	-4.35	3	Horizontal	192	3.00
2437MHz	Pass	PK	2.3886G	61.30	74.00	-12.70	3	Horizontal	192	3.00
2437MHz	Pass	PK	2.4418G	114.29	Inf	-Inf	3	Horizontal	192	3.00
2437MHz	Pass	PK	2.4835G	62.78	74.00	-11.22	3	Horizontal	192	3.00
2437MHz	Pass	AV	4.87454G	43.17	54.00	-10.83	3	Vertical	301	1.40
2437MHz	Pass	PK	4.87424G	55.32	74.00	-18.68	3	Vertical	301	1.40
2437MHz	Pass	AV	4.8752G	46.00	54.00	-8.00	3	Horizontal	180	1.99
2437MHz	Pass	PK	4.87334G	58.46	74.00	-15.54	3	Horizontal	180	1.99
2457MHz	Pass	AV	2.456G	100.52	Inf	-Inf	3	Vertical	267	2.17
2457MHz	Pass	AV	2.4835G	50.81	54.00	-3.19	3	Vertical	267	2.17
2457MHz	Pass	PK	2.4548G	109.00	Inf	-Inf	3	Vertical	267	2.17
2457MHz	Pass	PK	2.4835G	63.23	74.00	-10.77	3	Vertical	267	2.17
2457MHz	Pass	AV	2.456G	102.91	Inf	-Inf	3	Horizontal	176	1.06
2457MHz	Pass	AV	2.4835G	53.24	54.00	-0.76	3	Horizontal	176	1.06
2457MHz	Pass	PK	2.455G	111.63	Inf	-Inf	3	Horizontal	176	1.06
2457MHz	Pass	PK	2.484G	68.19	74.00	-5.81	3	Horizontal	176	1.06
2462MHz	Pass	AV	2.461G	99.65	Inf	-Inf	3	Vertical	262	2.73
2462MHz	Pass	AV	2.4835G	50.77	54.00	-3.23	3	Vertical	262	2.73
2462MHz	Pass	PK	2.459G	108.98	Inf	-Inf	3	Vertical	262	2.73
2462MHz	Pass	PK	2.4835G	66.21	74.00	-7.79	3	Vertical	262	2.73
2462MHz	Pass	AV	2.461G	101.48	Inf	-Inf	3	Horizontal	177	1.07
2462MHz	Pass	AV	2.4835G	53.73	54.00	-0.27	3	Horizontal	177	1.07
2462MHz	Pass	PK	2.458G	109.84	Inf	-Inf	3	Horizontal	177	1.07
2462MHz	Pass	PK	2.4835G	69.70	74.00	-4.30	3	Horizontal	177	1.07
2462MHz	Pass	AV	4.9231G	41.50	54.00	-12.50	3	Vertical	312	1.50
2462MHz	Pass	PK	4.92418G	55.36	74.00	-18.64	3	Vertical	312	1.50
2462MHz	Pass	AV	4.92358G	44.01	54.00	-9.99	3	Horizontal	181	2.37
2462MHz	Pass	PK	4.92316G	58.75	74.00	-15.25	3	Horizontal	181	2.37
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.43	54.00	-0.57	3	Vertical	295	1.50
2412MHz	Pass	AV	2.4134G	101.32	Inf	-Inf	3	Vertical	295	1.50
2412MHz	Pass	PK	2.39G	67.87	74.00	-6.13	3	Vertical	295	1.50
2412MHz	Pass	PK	2.4162G	109.99	Inf	-Inf	3	Vertical	295	1.50
2412MHz	Pass	AV	2.39G	52.98	54.00	-1.02	3	Horizontal	180	1.78
2412MHz	Pass	AV	2.4136G	101.23	Inf	-Inf	3	Horizontal	180	1.78
2412MHz	Pass	PK	2.3894G	69.95	74.00	-4.05	3	Horizontal	180	1.78
2412MHz	Pass	PK	2.4134G	110.12	Inf	-Inf	3	Horizontal	180	1.78
2412MHz	Pass	AV	4.8261G	38.02	54.00	-15.98	3	Vertical	153	1.50
2412MHz	Pass	PK	4.8252G	51.40	74.00	-22.60	3	Vertical	153	1.50
2412MHz	Pass	AV	4.82904G	41.41	54.00	-12.59	3	Horizontal	173	2.20
2412MHz	Pass	PK	4.83246G	55.65	74.00	-18.35	3	Horizontal	173	2.20
2417MHz	Pass	AV	2.39G	51.77	54.00	-2.23	3	Vertical	295	1.51
2417MHz	Pass	AV	2.416G	103.08	Inf	-Inf	3	Vertical	295	1.51
2417MHz	Pass	PK	2.3898G	70.12	74.00	-3.88	3	Vertical	295	1.51
2417MHz	Pass	PK	2.4172G	111.80	Inf	-Inf	3	Vertical	295	1.51
2417MHz	Pass	AV	2.3898G	52.42	54.00	-1.58	3	Horizontal	181	2.50
2417MHz	Pass	AV	2.4162G	103.64	Inf	-Inf	3	Horizontal	181	2.50
2417MHz	Pass	PK	2.3886G	70.37	74.00	-3.63	3	Horizontal	181	2.50
2417MHz	Pass	PK	2.4162G	112.29	Inf	-Inf	3	Horizontal	181	2.50
2437MHz	Pass	AV	2.3898G	50.32	54.00	-3.68	3	Vertical	295	1.45
2437MHz	Pass	AV	2.4358G	104.71	Inf	-Inf	3	Vertical	295	1.45
2437MHz	Pass	AV	2.4835G	51.79	54.00	-2.21	3	Vertical	295	1.45
2437MHz	Pass	PK	2.3894G	64.65	74.00	-9.35	3	Vertical	295	1.45



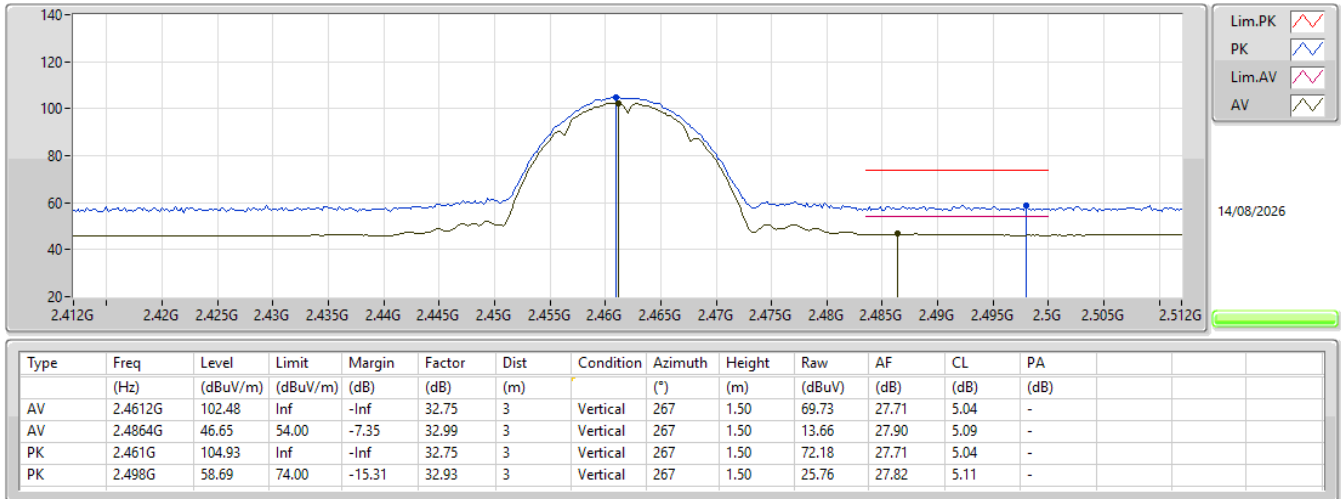
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	PK	2.4394G	113.80	Inf	-Inf	3	Vertical	295	1.45
2437MHz	Pass	PK	2.4842G	66.07	74.00	-7.93	3	Vertical	295	1.45
2437MHz	Pass	AV	2.3898G	50.54	54.00	-3.46	3	Horizontal	191	1.73
2437MHz	Pass	AV	2.4378G	105.46	Inf	-Inf	3	Horizontal	191	1.73
2437MHz	Pass	AV	2.4838G	51.05	54.00	-2.95	3	Horizontal	191	1.73
2437MHz	Pass	PK	2.3818G	68.61	74.00	-5.39	3	Horizontal	191	1.73
2437MHz	Pass	PK	2.437G	113.79	Inf	-Inf	3	Horizontal	191	1.73
2437MHz	Pass	PK	2.4838G	65.42	74.00	-8.58	3	Horizontal	191	1.73
2437MHz	Pass	AV	4.87288G	42.27	54.00	-11.73	3	Vertical	301	1.39
2437MHz	Pass	PK	4.8704G	54.79	74.00	-19.21	3	Vertical	301	1.39
2437MHz	Pass	AV	4.874G	45.21	54.00	-8.79	3	Horizontal	179	2.19
2437MHz	Pass	PK	4.87128G	58.13	74.00	-15.87	3	Horizontal	179	2.19
2457MHz	Pass	AV	2.4562G	102.72	Inf	-Inf	3	Vertical	295	1.67
2457MHz	Pass	AV	2.4838G	52.89	54.00	-1.11	3	Vertical	295	1.67
2457MHz	Pass	PK	2.4586G	111.14	Inf	-Inf	3	Vertical	295	1.67
2457MHz	Pass	PK	2.4856G	67.47	74.00	-6.53	3	Vertical	295	1.67
2457MHz	Pass	AV	2.456G	104.05	Inf	-Inf	3	Horizontal	183	2.70
2457MHz	Pass	AV	2.4835G	53.74	54.00	-0.26	3	Horizontal	183	2.70
2457MHz	Pass	PK	2.4552G	112.99	Inf	-Inf	3	Horizontal	183	2.70
2457MHz	Pass	PK	2.4844G	69.53	74.00	-4.47	3	Horizontal	183	2.70
2462MHz	Pass	AV	2.4612G	100.31	Inf	-Inf	3	Vertical	296	1.96
2462MHz	Pass	AV	2.4835G	52.11	54.00	-1.89	3	Vertical	296	1.96
2462MHz	Pass	PK	2.4596G	109.57	Inf	-Inf	3	Vertical	296	1.96
2462MHz	Pass	PK	2.4836G	69.87	74.00	-4.13	3	Vertical	296	1.96
2462MHz	Pass	AV	2.4606G	101.58	Inf	-Inf	3	Horizontal	182	2.70
2462MHz	Pass	AV	2.4836G	53.32	54.00	-0.68	3	Horizontal	182	2.70
2462MHz	Pass	PK	2.4594G	110.79	Inf	-Inf	3	Horizontal	182	2.70
2462MHz	Pass	PK	2.4836G	68.11	74.00	-5.89	3	Horizontal	182	2.70
2462MHz	Pass	AV	4.9232G	41.11	54.00	-12.89	3	Vertical	302	1.68
2462MHz	Pass	PK	4.92632G	54.27	74.00	-19.73	3	Vertical	302	1.68
2462MHz	Pass	AV	4.92328G	42.97	54.00	-11.03	3	Horizontal	180	2.42
2462MHz	Pass	PK	4.92032G	57.01	74.00	-16.99	3	Horizontal	180	2.42

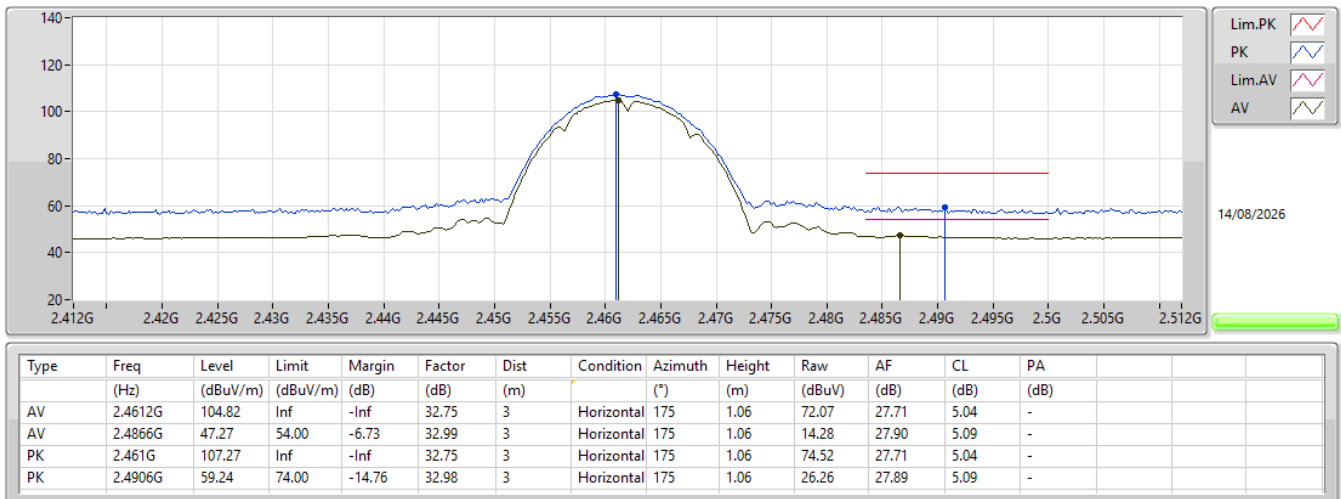
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



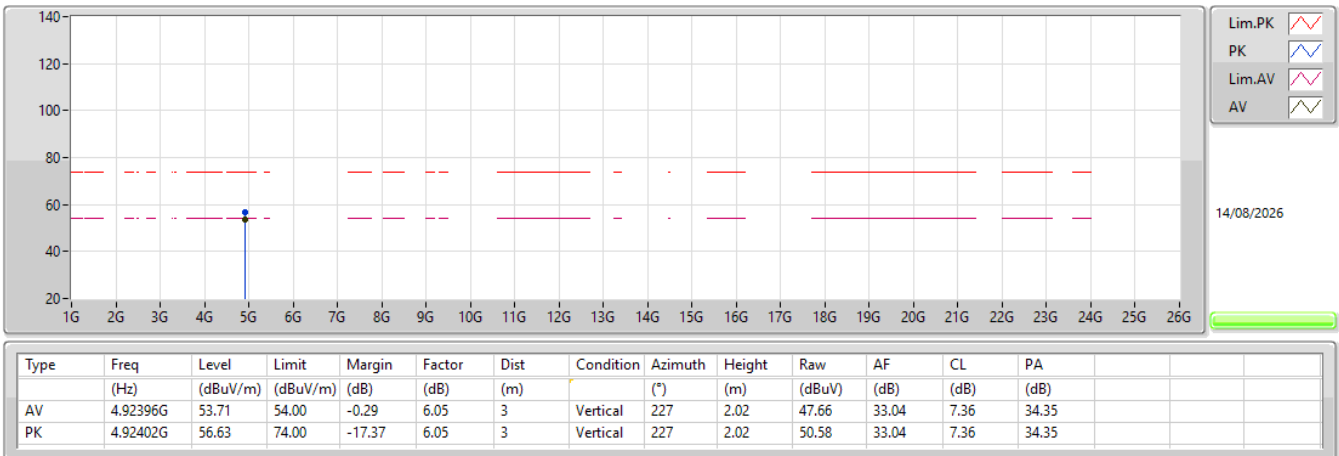
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2462MHz_TX



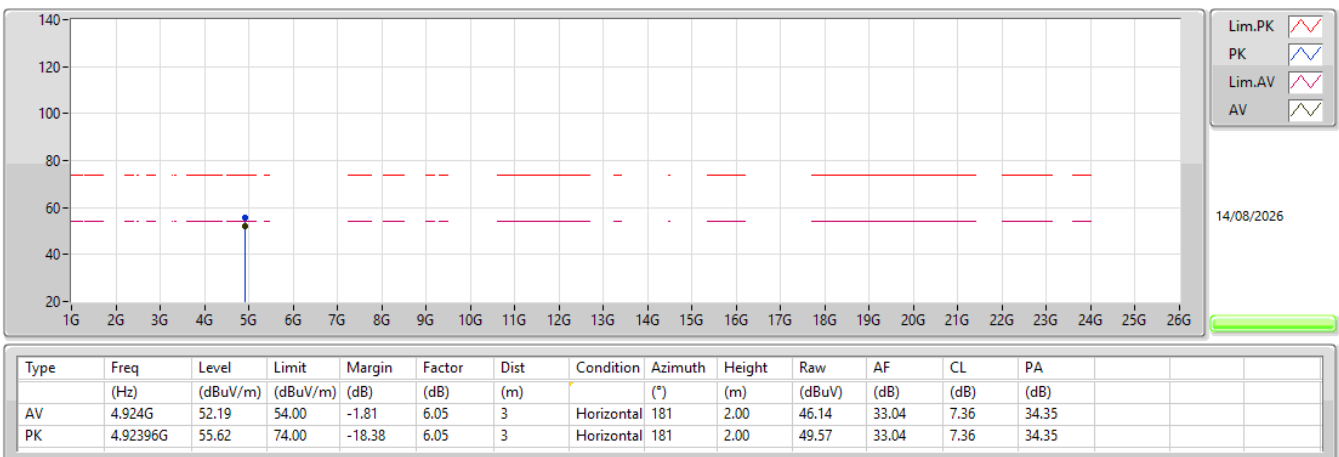
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



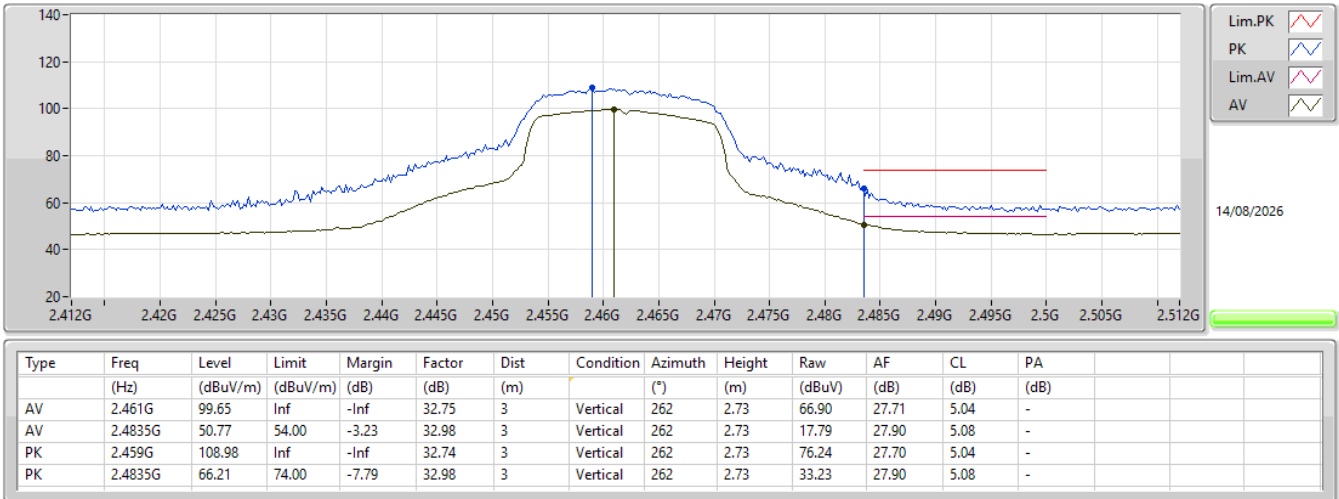
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



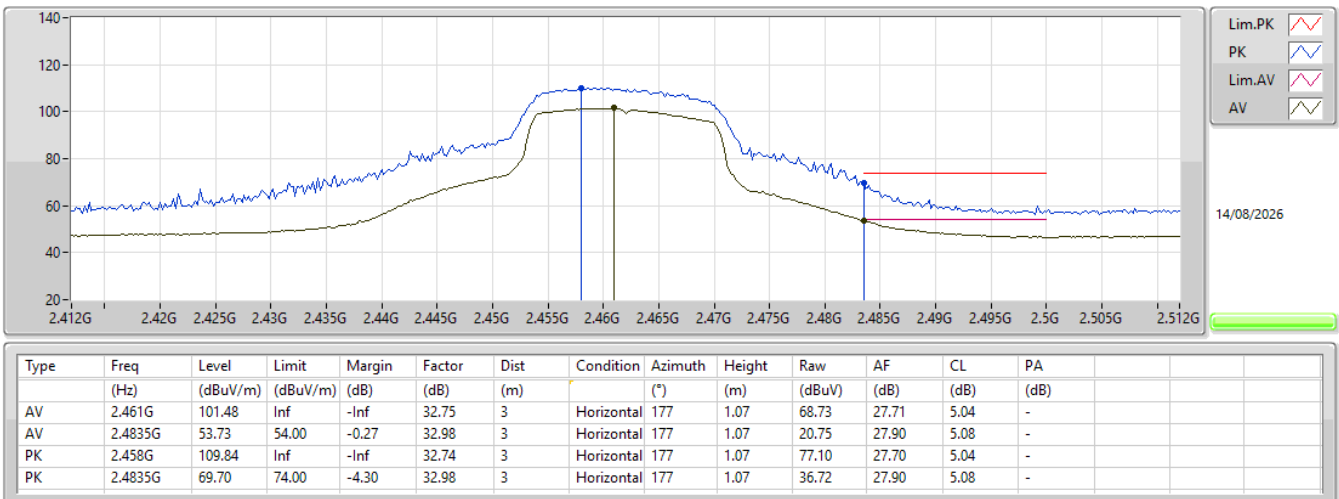
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



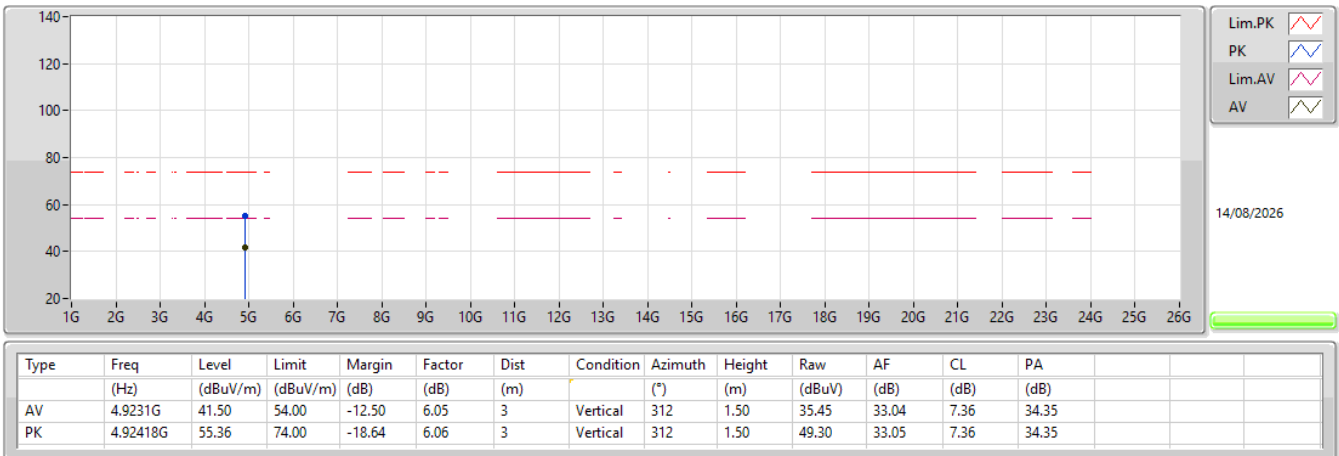
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



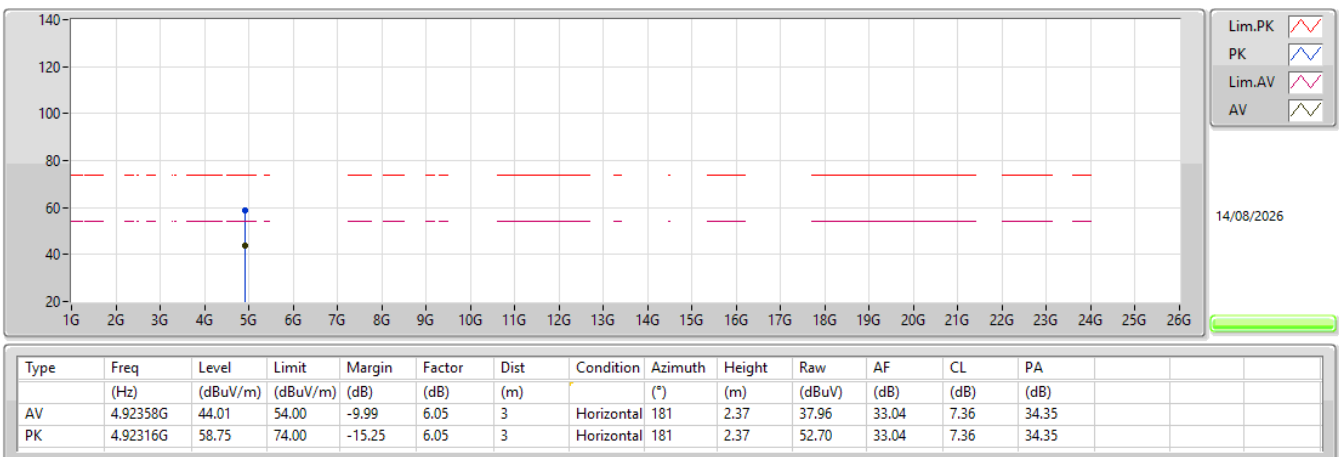
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



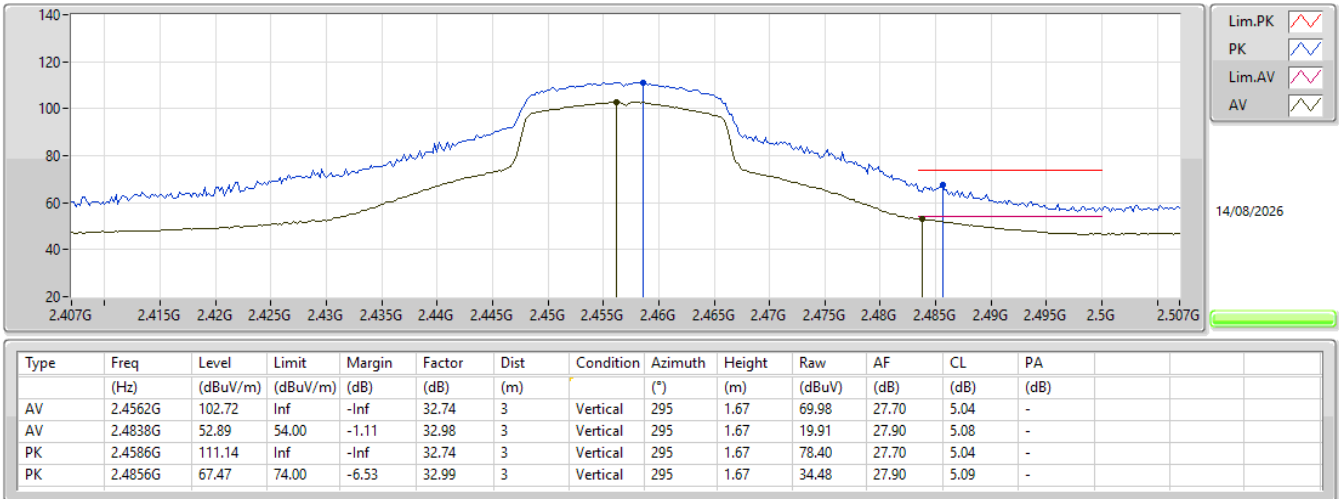
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2457MHz_TX



2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2457MHz_TX

