

FCC Radio Test Report

FCC ID : HBWCHM1
Equipment : Wireless Chime
Brand Name : myQ
Model Name : MYQW11AXXW
Applicant : The Chamberlain Group LLC
300 Windsor Drive, Oak Brook, IL. 60523
Manufacturer : The Chamberlain Group LLC
300 Windsor Drive, Oak Brook, IL. 60523
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 08, 2025, and testing was started from Aug. 20, 2025 and completed on Aug. 27, 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 C63.10-2020 + Cor.1-2023 + 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
FR580726AC	01	Initial issue of report	Sep. 23, 2025

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Barry Hsiao

Report Producer: Michelle Tsai

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]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

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
2.4-2.4835GHz	802.11n HT40	40	1TX

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.
- ♦ BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand Name	Model Name	Antenna Type	Connector	Support	Gain (dBi)
1	1	INPAQ TECHNOLOGY (SUZHOU) CO., LTD	RFFPA301808I MAB301	FPC	N/A	2.4G+BT	1.35

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.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
802.11b_Nss1,(1Mbps)_1TX	1	0	30.001m	10Hz (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX	1	0	30.001m	10Hz (DC>=0.98)
802.11n HT20_Nss1,(MCS0)_1TX	1	0	30.001m	10Hz (DC>=0.98)
802.11n HT40_Nss1,(MCS0)_1TX	1	0	30.001m	10Hz (DC>=0.98)

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

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Andy Wang	23.1~24.7°C / 54~60%	27/Aug/2025
☒ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Johnny Yu	23.4~23.9°C / 52~55%	22/Aug/2025
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Edward Wang	22.2~23.4°C / 50~52%	20/Aug/2025~21/Aug/2025

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	3.44 dB	Confidence levels of 95%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	AmebaD_mptool_5v0
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Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	Default
2437MHz	Default
2462MHz	Default
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	102
2417MHz	Default
2437MHz	Default
2457MHz	Default
2462MHz	98
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	Default
2437MHz	Default
2457MHz	Default
2462MHz	95
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	Default
2437MHz	Default
2447MHz	98
2452MHz	97

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



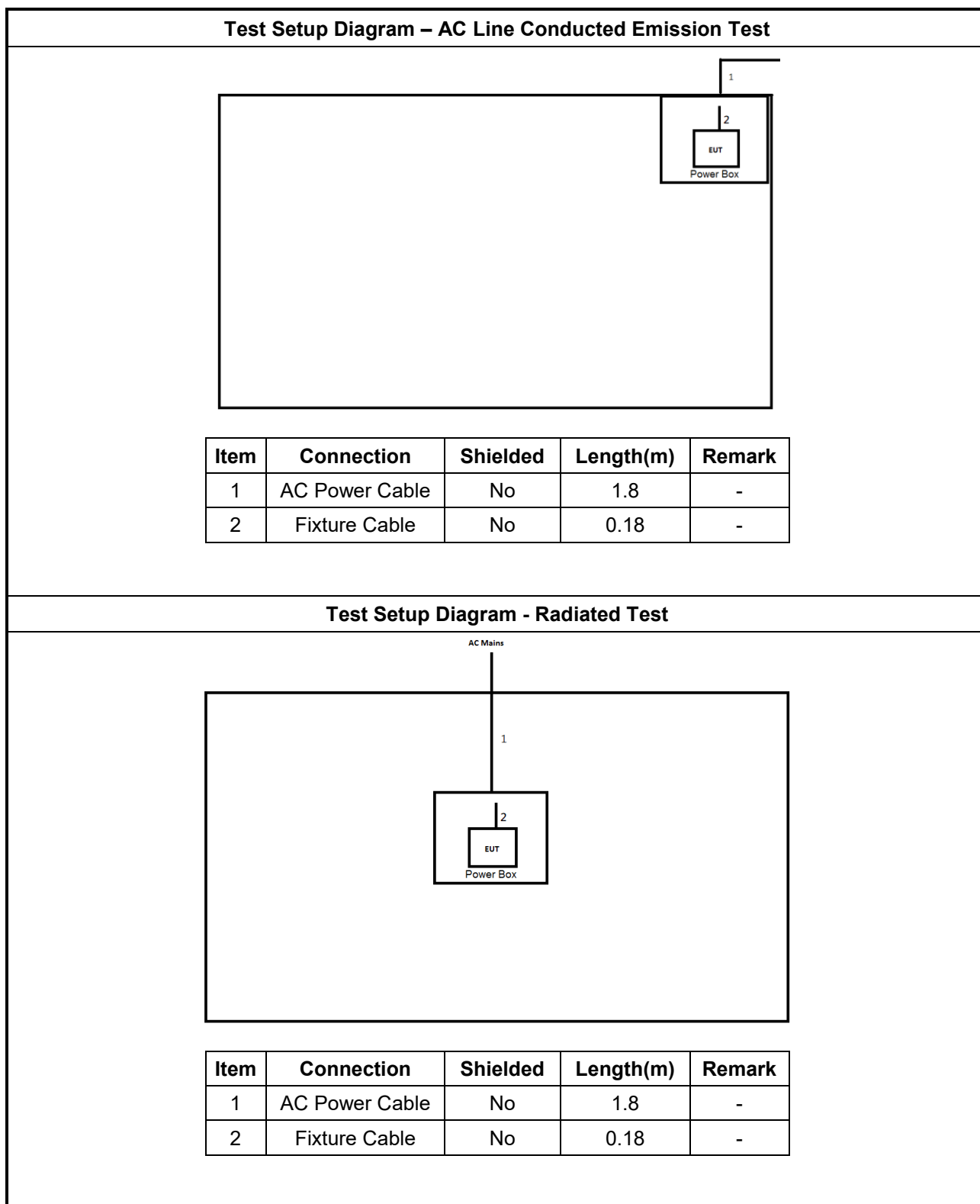
2.3 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable	Sporton	Sporton	-	-

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

Support Equipment –Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Fixture Cable	Sporton	Sporton	-	-

2.4 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

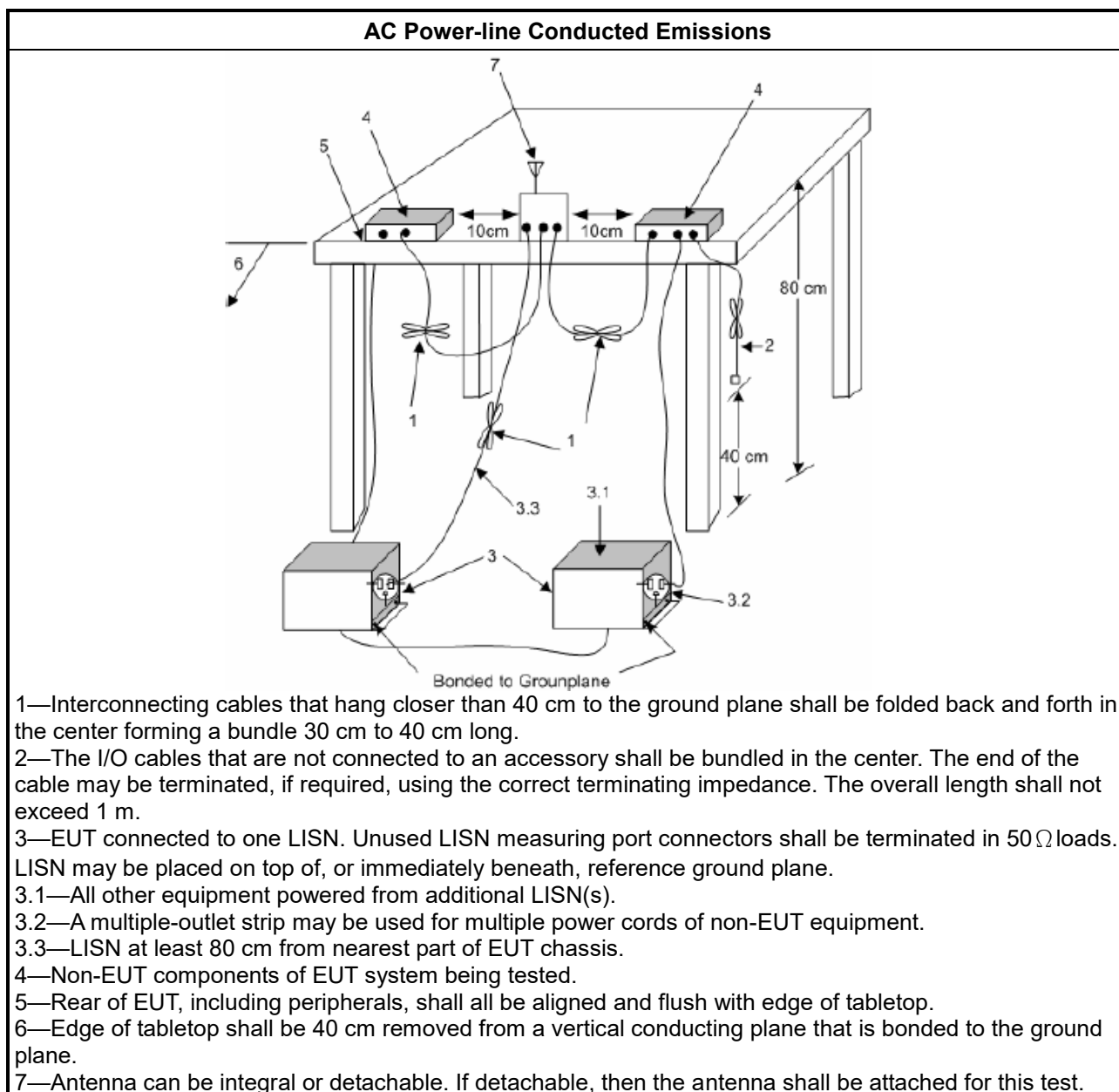
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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.

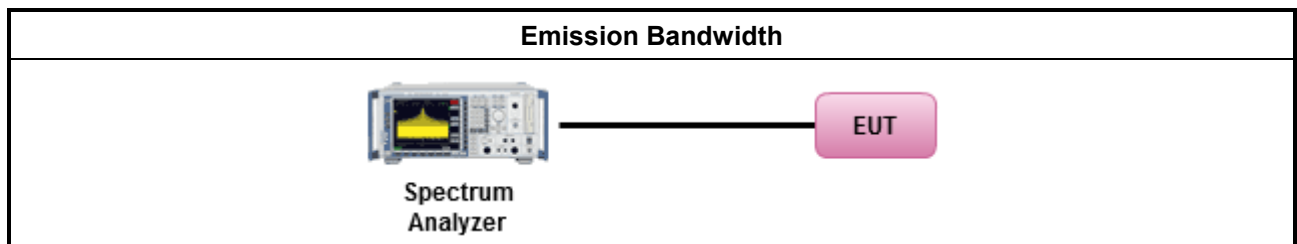
3.2.2 Measuring Instruments

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.	

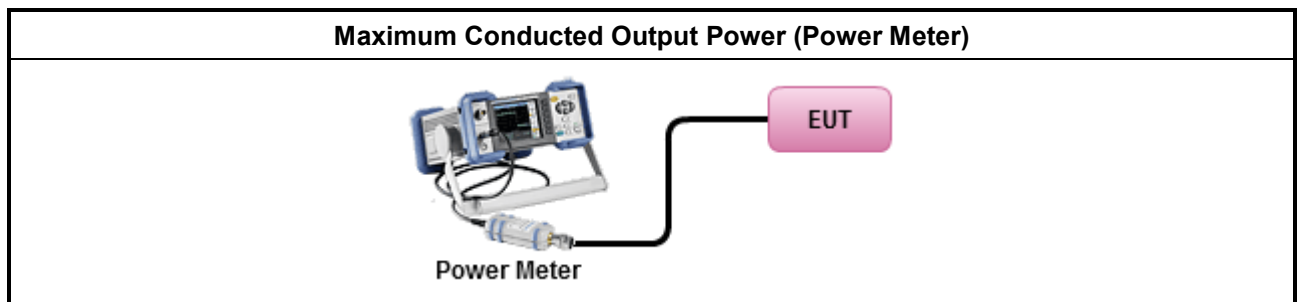
3.3.2 Measuring Instruments

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

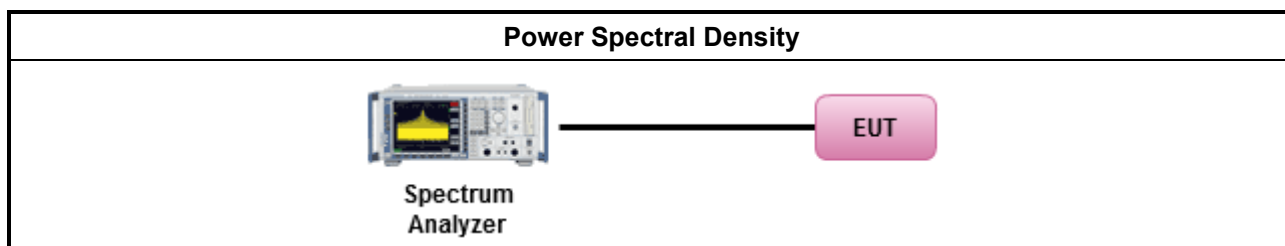
3.4.2 Measuring Instruments

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.	

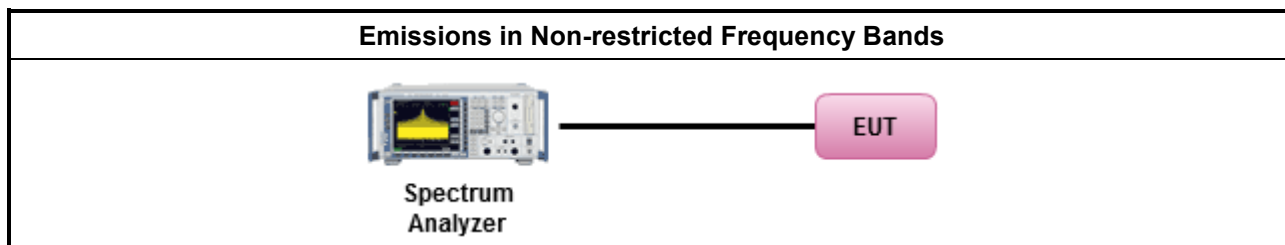
3.5.2 Measuring Instruments

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

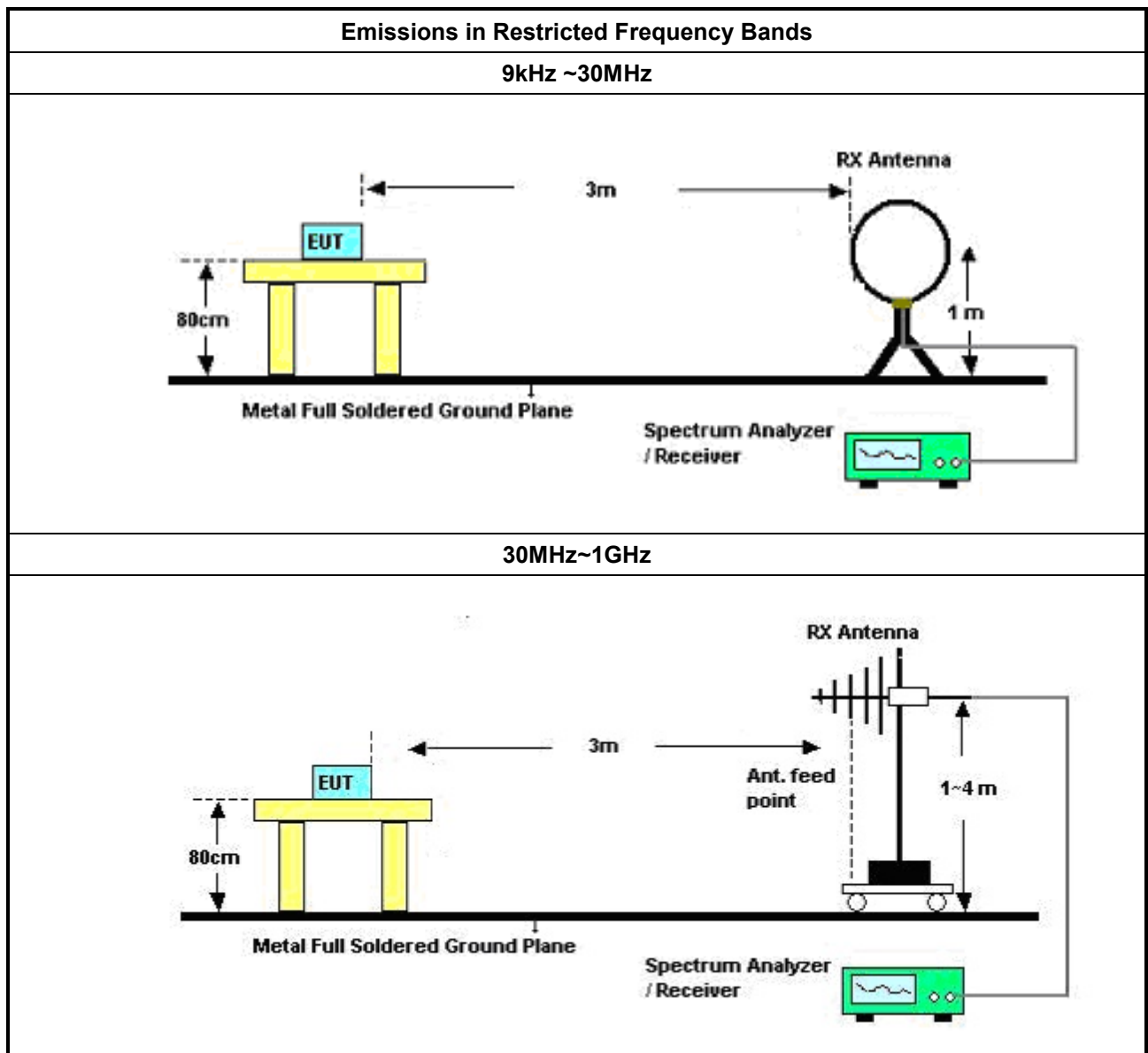
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted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

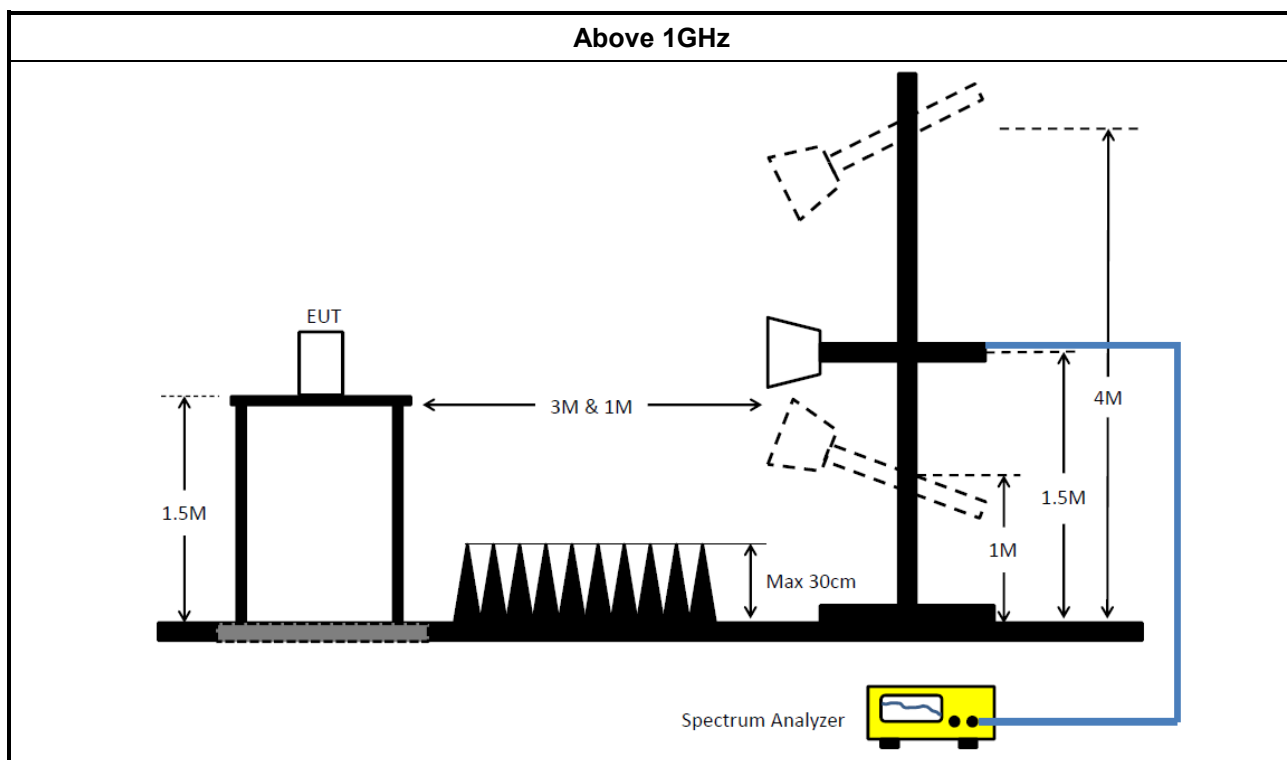
3.6.4 Measurement Results Calculation

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 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	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	100003	9kHz ~ 30MHz	18/Apr/2025	17/Apr/2026
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	V5.11.6	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	28/Oct/2024	27/Oct/2025
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	28/Mar/2025	27/Mar/2026
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	28/Mar/2025	27/Mar/2026
SENSE-15247_DTS	Sporton	V5.11.25	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	07/Mar/2025	06/Mar/2026
Site V.S.W.R	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	06/Mar/2025	05/Mar/2026
EMI Test Receiver	ROHDE & SCHWARZ	ESR	102318	9kHz~3.6GHz	06/Dec/2024	05/Dec/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	26/Aug/2024	25/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	20/Dec/2024	19/Dec/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz~40GHz	04/Oct/2024	03/Oct/2025
RF Cable-R03m	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	19/Feb/2025	18/Feb/2026
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	03CH09-cable-02	1GHz~40GHz	07/Oct/2024	06/Oct/2025
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	09/Apr/2025	08/Apr/2026
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	17/Jul/2025	16/Jul/2026
Amplifier	EM	EM18G40GA	060874	18GHz~40GHz	18/Apr/2025	17/Apr/2026
SENSE-15247_DTS	Sporton	V5.11.24	NA	NA	NA	NA



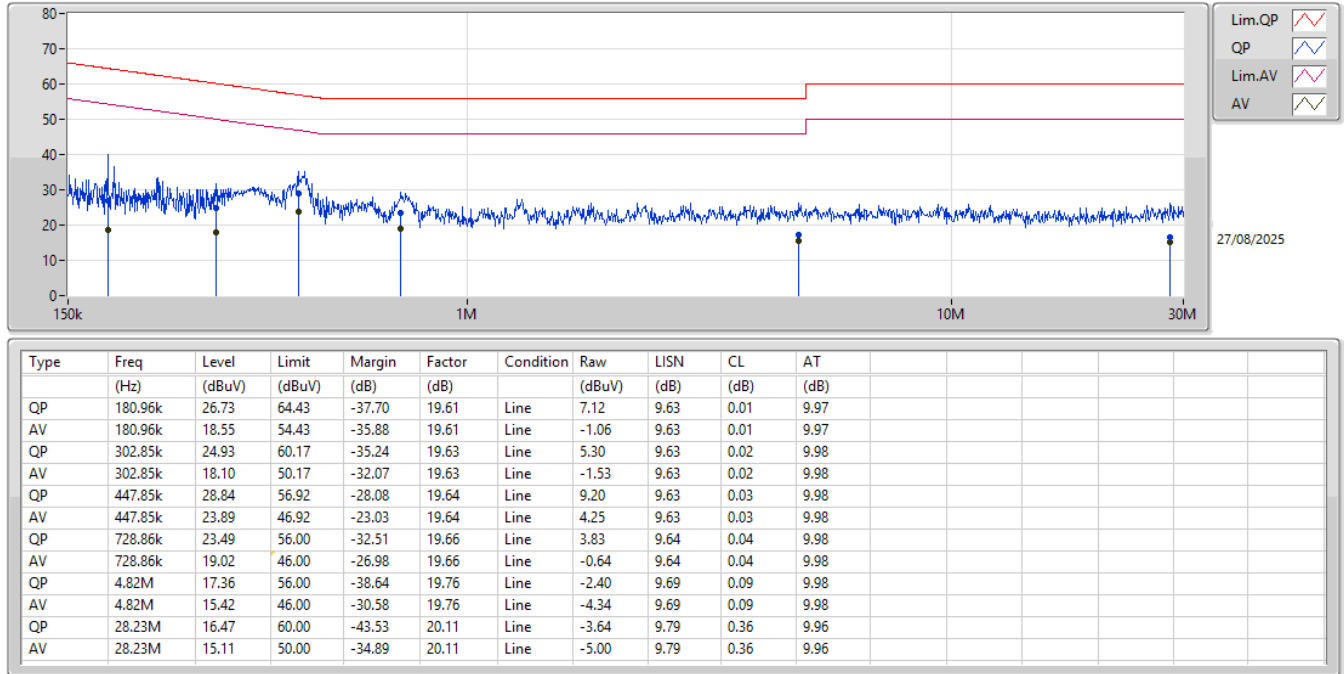
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	447.85k	23.89	46.92	-23.03	Line

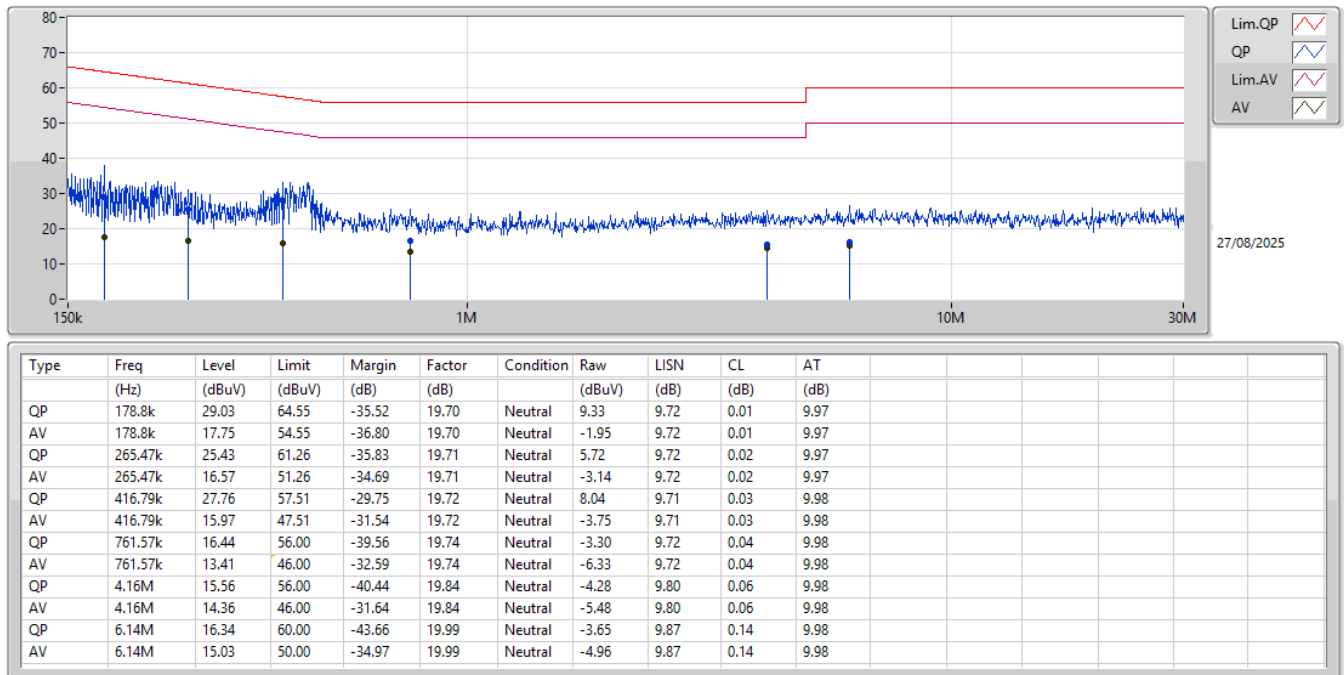
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	180.96k	26.73	64.43	-37.70	Line
Mode 1	Pass	AV	180.96k	18.55	54.43	-35.88	Line
Mode 1	Pass	QP	302.85k	24.93	60.17	-35.24	Line
Mode 1	Pass	AV	302.85k	18.10	50.17	-32.07	Line
Mode 1	Pass	QP	447.85k	28.84	56.92	-28.08	Line
Mode 1	Pass	AV	447.85k	23.89	46.92	-23.03	Line
Mode 1	Pass	QP	728.86k	23.49	56.00	-32.51	Line
Mode 1	Pass	AV	728.86k	19.02	46.00	-26.98	Line
Mode 1	Pass	QP	4.82M	17.36	56.00	-38.64	Line
Mode 1	Pass	AV	4.82M	15.42	46.00	-30.58	Line
Mode 1	Pass	QP	28.23M	16.47	60.00	-43.53	Line
Mode 1	Pass	AV	28.23M	15.11	50.00	-34.89	Line
Mode 1	Pass	QP	178.8k	29.03	64.55	-35.52	Neutral
Mode 1	Pass	AV	178.8k	17.75	54.55	-36.80	Neutral
Mode 1	Pass	QP	265.47k	25.43	61.26	-35.83	Neutral
Mode 1	Pass	AV	265.47k	16.57	51.26	-34.69	Neutral
Mode 1	Pass	QP	416.79k	27.76	57.51	-29.75	Neutral
Mode 1	Pass	AV	416.79k	15.97	47.51	-31.54	Neutral
Mode 1	Pass	QP	761.57k	16.44	56.00	-39.56	Neutral
Mode 1	Pass	AV	761.57k	13.41	46.00	-32.59	Neutral
Mode 1	Pass	QP	4.16M	15.56	56.00	-40.44	Neutral
Mode 1	Pass	AV	4.16M	14.36	46.00	-31.64	Neutral
Mode 1	Pass	QP	6.14M	16.34	60.00	-43.66	Neutral
Mode 1	Pass	AV	6.14M	15.03	50.00	-34.97	Neutral

Conducted Emissions at Powerline_Mode 1



Conducted Emissions at Powerline_Mode 1



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	9.55M	14.648M	14M6G1D	9.325M	14.423M
802.11g_Nss1,(6Mbps)_1TX	16.425M	16.646M	16M6D1D	16.375M	16.536M
802.11n HT20_Nss1,(MCS0)_1TX	17.625M	17.666M	17M7D1D	17.6M	17.541M
802.11n HT40_Nss1,(MCS0)_1TX	36.3M	35.882M	35M9D1D	36.3M	35.882M

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	9.325M	14.648M
2437MHz	Pass	500k	9.55M	14.423M
2462MHz	Pass	500k	9.55M	14.558M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.375M	16.536M
2437MHz	Pass	500k	16.375M	16.558M
2462MHz	Pass	500k	16.425M	16.646M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.625M	17.641M
2437MHz	Pass	500k	17.625M	17.666M
2462MHz	Pass	500k	17.6M	17.541M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.3M	35.882M
2437MHz	Pass	500k	36.3M	35.882M
2452MHz	Pass	500k	36.3M	35.882M

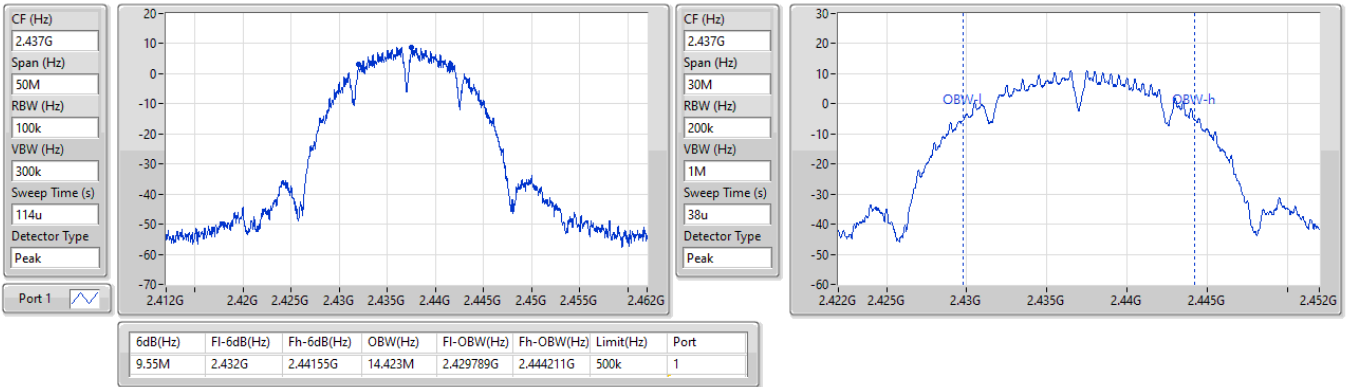
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2437MHz

22/08/2025

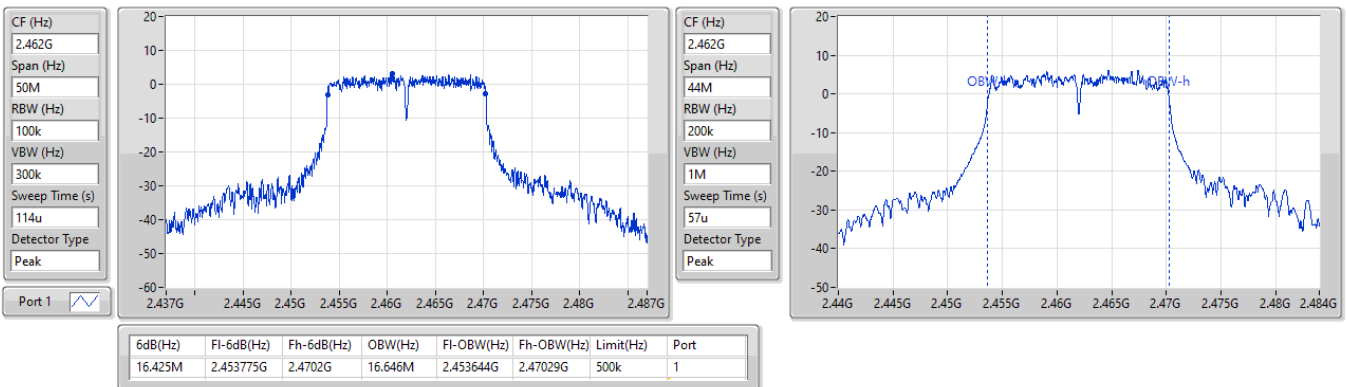


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

22/08/2025

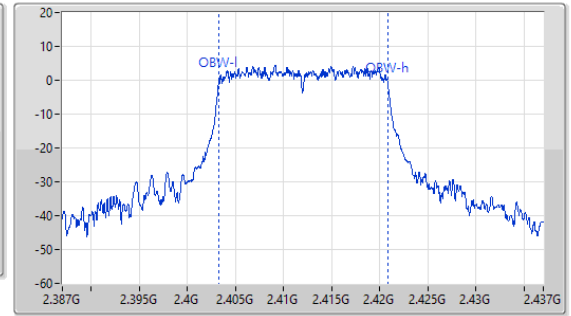
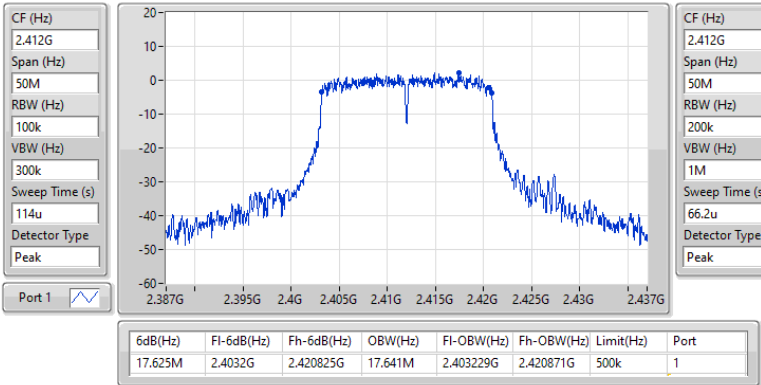


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

22/08/2025

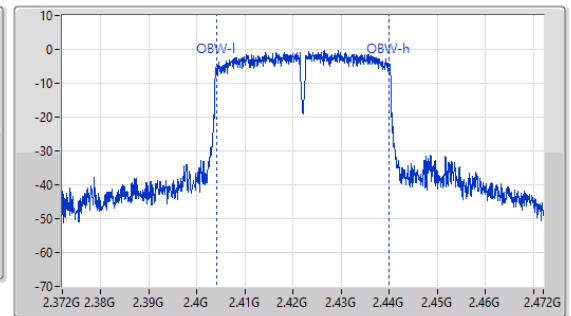
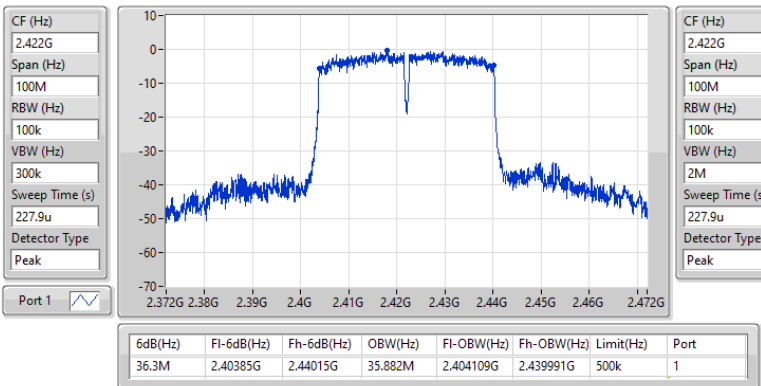


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

EBW

2422MHz

22/08/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.03	0.07998
802.11g_Nss1,(6Mbps)_1TX	17.86	0.06109
802.11n HT20_Nss1,(MCS0)_1TX	16.74	0.04721
802.11n HT40_Nss1,(MCS0)_1TX	16.95	0.04955

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.35	19.03	19.03	30.00
2437MHz	Pass	1.35	18.97	18.97	30.00
2462MHz	Pass	1.35	18.88	18.88	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.35	17.27	17.27	30.00
2417MHz	Pass	1.35	17.71	17.71	30.00
2437MHz	Pass	1.35	17.86	17.86	30.00
2457MHz	Pass	1.35	17.83	17.83	30.00
2462MHz	Pass	1.35	17.04	17.04	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	1.35	16.16	16.16	30.00
2437MHz	Pass	1.35	16.74	16.74	30.00
2457MHz	Pass	1.35	16.67	16.67	30.00
2462MHz	Pass	1.35	16.34	16.34	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	1.35	16.47	16.47	30.00
2437MHz	Pass	1.35	16.95	16.95	30.00
2447MHz	Pass	1.35	16.54	16.54	30.00
2452MHz	Pass	1.35	16.50	16.50	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	-11.11
802.11g_Nss1,(6Mbps)_1TX	-10.07
802.11n HT20_Nss1,(MCS0)_1TX	-11.45
802.11n HT40_Nss1,(MCS0)_1TX	-12.58

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	1.35	-11.11	-11.11	8.00
2437MHz	Pass	1.35	-11.21	-11.21	8.00
2462MHz	Pass	1.35	-11.20	-11.20	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	1.35	-10.88	-10.88	8.00
2437MHz	Pass	1.35	-10.07	-10.07	8.00
2462MHz	Pass	1.35	-11.39	-11.39	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	1.35	-12.24	-12.24	8.00
2437MHz	Pass	1.35	-11.45	-11.45	8.00
2462MHz	Pass	1.35	-11.97	-11.97	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	1.35	-12.58	-12.58	8.00
2437MHz	Pass	1.35	-13.11	-13.11	8.00
2452MHz	Pass	1.35	-12.61	-12.61	8.00

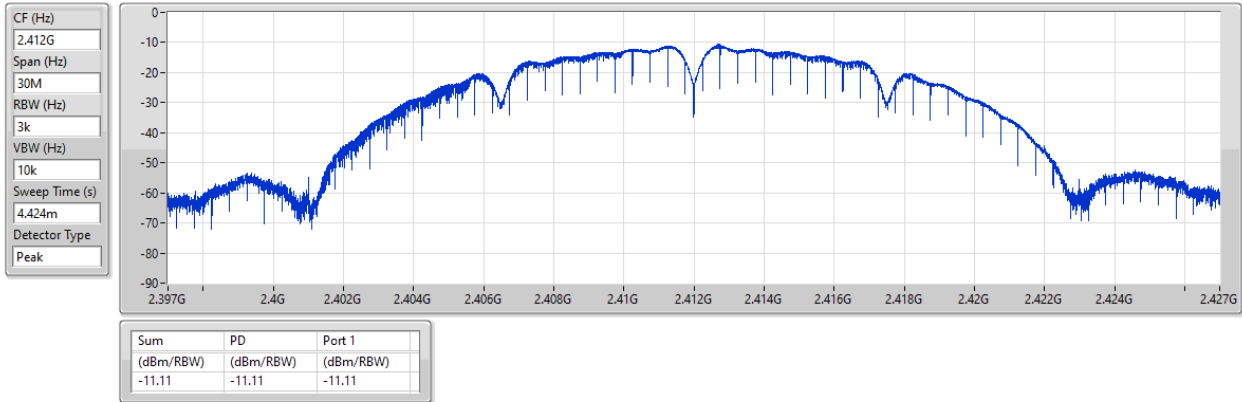
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

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

PSD

2412MHz

22/08/2025

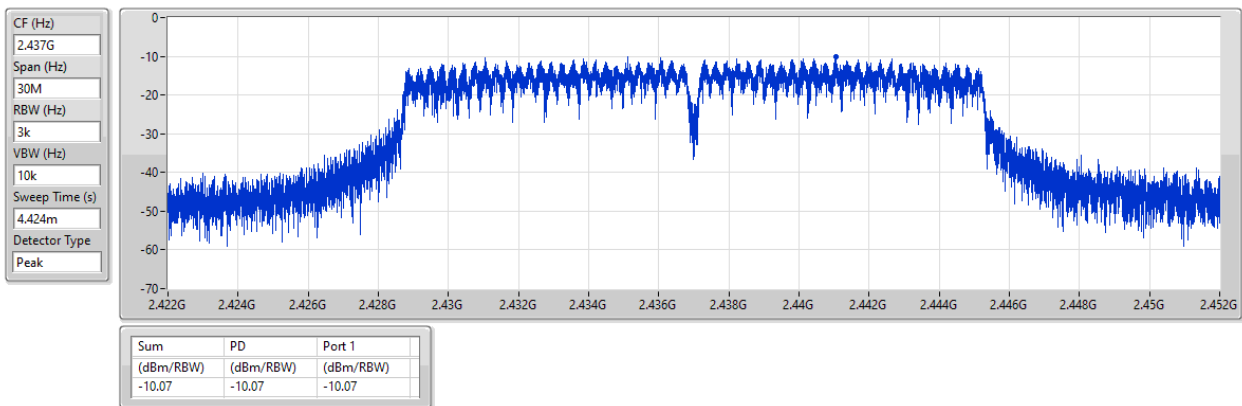


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

22/08/2025

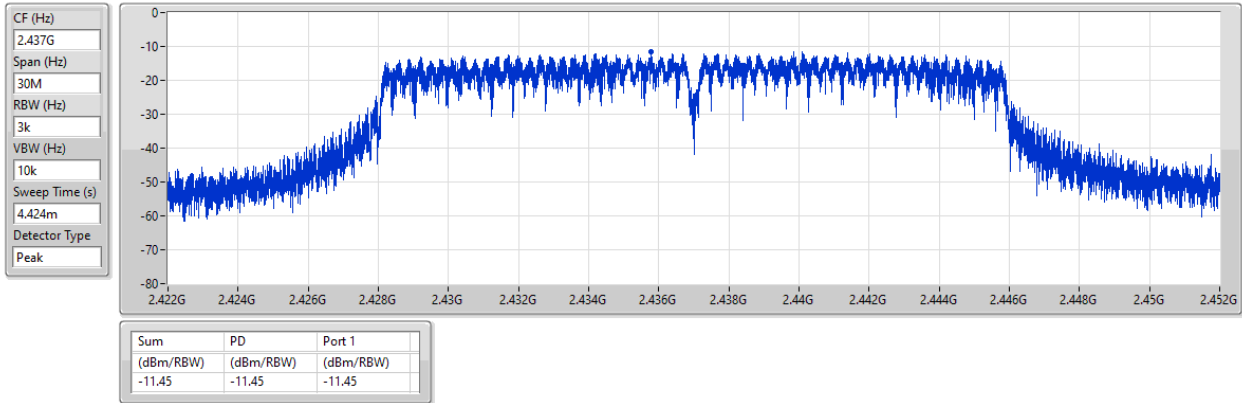


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

22/08/2025

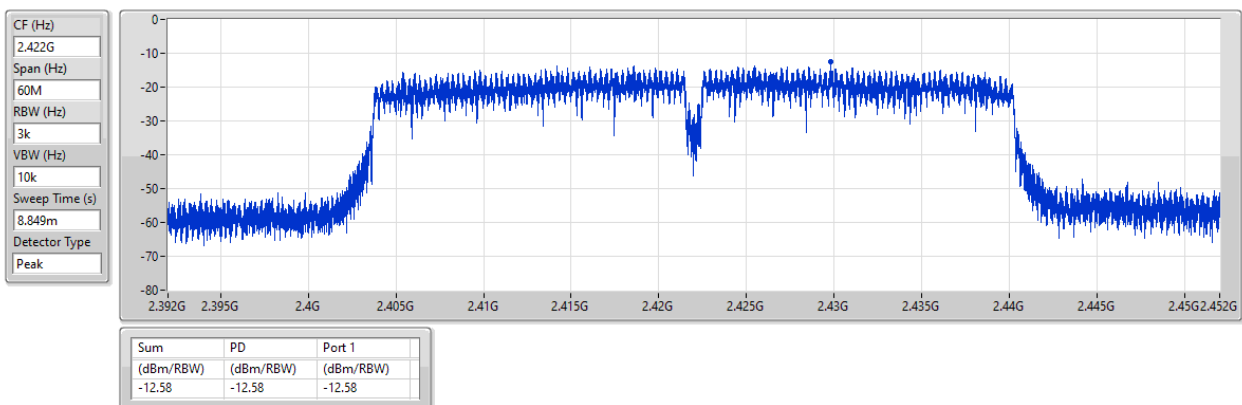


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

PSD

2422MHz

22/08/2025





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)_1TX	Pass	2.41253G	9.10	-20.90	2.12584G	-55.52	2.39952G	-34.53	2.4G	-36.93	2.52022G	-51.66	17.64176G	-41.65	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.44108G	4.78	-25.22	2.30059G	-54.77	2.39992G	-25.97	2.4G	-25.43	2.50014G	-50.88	16.26507G	-41.41	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43407G	3.46	-26.54	2.30408G	-54.70	2.39936G	-28.57	2.4G	-29.98	2.52118G	-51.62	16.25945G	-41.08	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.4334G	-0.29	-30.29	31.15M	-52.44	2.39744G	-37.94	2.4G	-39.37	2.51518G	-50.37	17.60998G	-40.47	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	2.41253G	9.10	-20.90	2.12584G	-55.52	2.39952G	-34.53	2.4G	-36.93	2.52022G	-51.66	17.64176G	-41.65	1
2437MHz	Pass	2.41253G	9.10	-20.90	749.97M	-55.16	2.3912G	-50.81	2.4G	-51.94	2.51766G	-47.97	23.35641G	-41.34	1
2462MHz	Pass	2.41253G	9.10	-20.90	2.30874G	-55.98	2.39952G	-52.16	2.4G	-54.33	2.52286G	-50.33	16.23978G	-40.79	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44108G	4.78	-25.22	2.30059G	-54.77	2.39992G	-25.97	2.4G	-25.43	2.50014G	-50.88	16.26507G	-41.41	1
2437MHz	Pass	2.44108G	4.78	-25.22	2.30175G	-55.45	2.3992G	-41.20	2.4G	-41.13	2.51446G	-49.15	23.33112G	-40.97	1
2462MHz	Pass	2.44108G	4.78	-25.22	2.12584G	-54.73	2.39232G	-50.57	2.4G	-51.65	2.50006G	-48.44	16.5966G	-41.85	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43407G	3.46	-26.54	2.30408G	-54.70	2.39936G	-28.57	2.4G	-29.98	2.52118G	-51.62	16.25945G	-41.08	1
2437MHz	Pass	2.43407G	3.46	-26.54	2.30525G	-55.42	2.3992G	-44.91	2.4G	-46.52	2.5219G	-49.80	15.23396G	-41.39	1
2462MHz	Pass	2.43407G	3.46	-26.54	2.30874G	-55.99	2.39568G	-51.33	2.4G	-52.62	2.5039G	-49.57	17.61928G	-41.15	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.4334G	-0.29	-30.29	31.15M	-52.44	2.39744G	-37.94	2.4G	-39.37	2.51518G	-50.37	17.60998G	-40.47	1
2437MHz	Pass	2.4334G	-0.29	-30.29	30M	-50.58	2.39824G	-39.38	2.4G	-42.40	2.50094G	-47.91	16.2722G	-41.31	1
2452MHz	Pass	2.4334G	-0.29	-30.29	32.29M	-52.90	2.39936G	-42.78	2.4G	-46.76	2.5011G	-41.01	16.26659G	-42.12	1

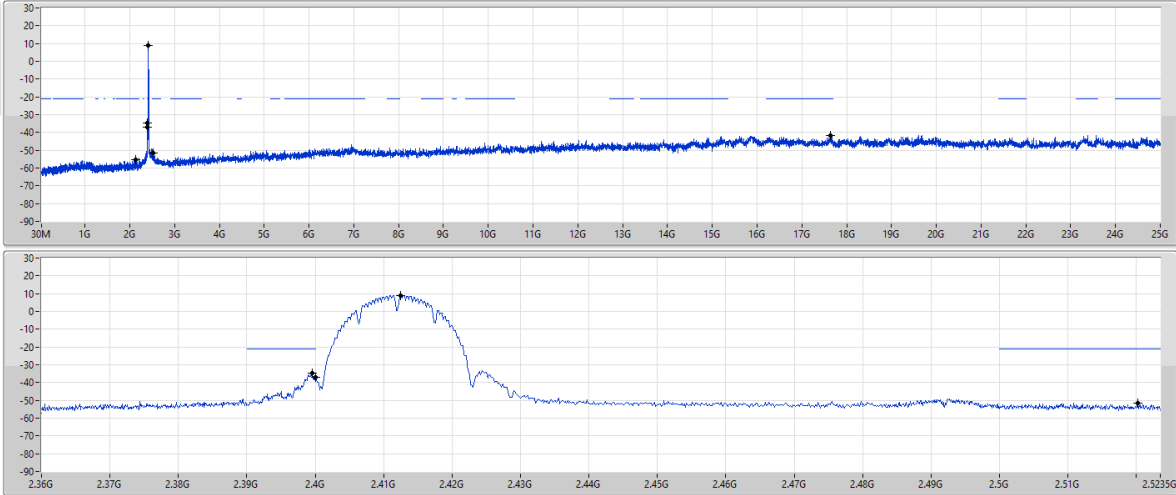
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

22/08/2025

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



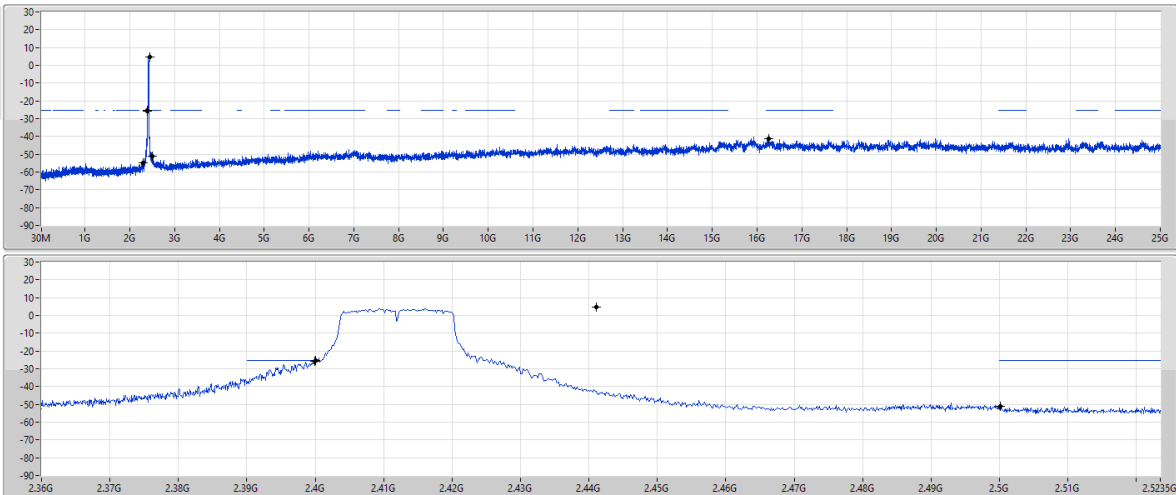
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2412MHz

22/08/2025

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

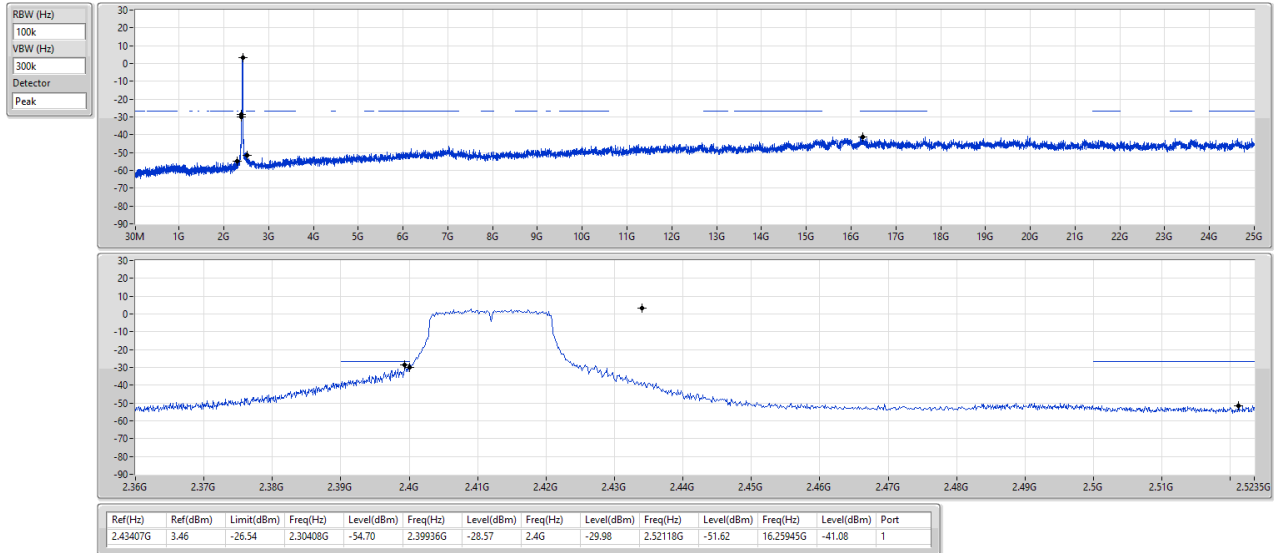


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

2412MHz

22/08/2025

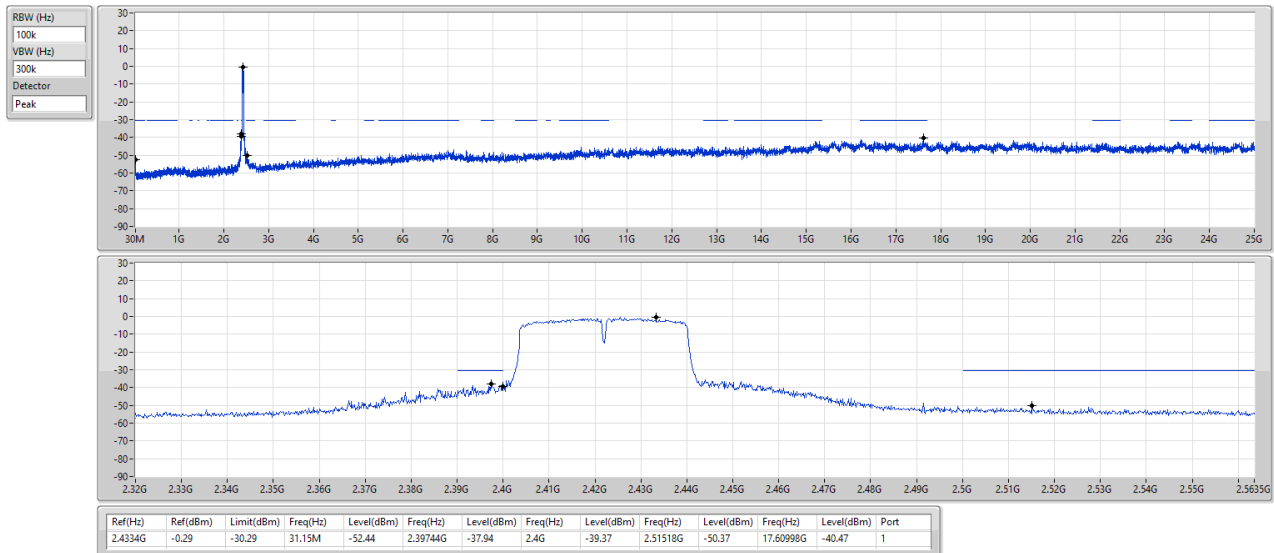


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

2422MHz

22/08/2025





Summary

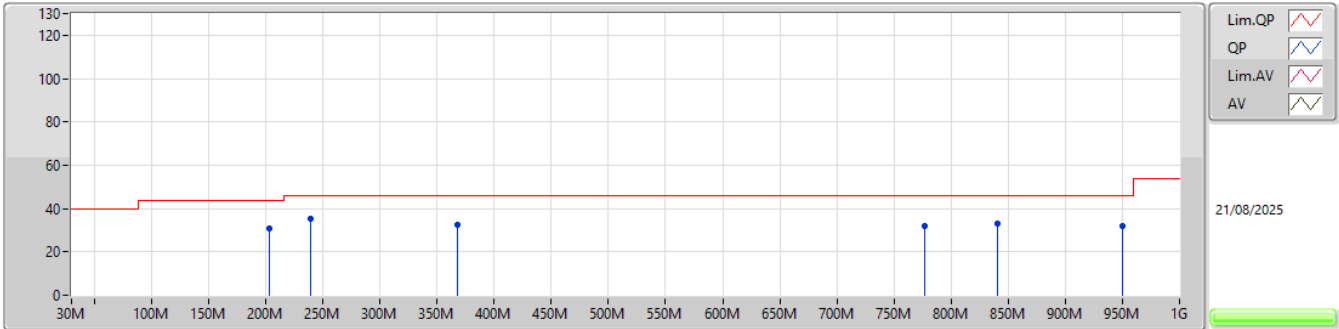
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	PK	239.52M	35.10	46.00	-10.90	3	Vertical	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz_TX	Pass	PK	202.66M	30.76	43.50	-12.74	3	Vertical	360	1.00
2437MHz_TX	Pass	PK	239.52M	35.10	46.00	-10.90	3	Vertical	360	1.00
2437MHz_TX	Pass	PK	367.56M	32.24	46.00	-13.76	3	Vertical	360	1.00
2437MHz_TX	Pass	PK	776.9M	31.86	46.00	-14.14	3	Vertical	360	1.00
2437MHz_TX	Pass	PK	840.92M	32.84	46.00	-13.16	3	Vertical	360	1.00
2437MHz_TX	Pass	PK	949.56M	31.78	46.00	-14.22	3	Vertical	360	1.00
2437MHz_TX	Pass	PK	33.88M	26.75	40.00	-13.25	3	Horizontal	0	1.00
2437MHz_TX	Pass	PK	127M	27.82	43.50	-15.68	3	Horizontal	0	1.00
2437MHz_TX	Pass	PK	208.48M	28.41	43.50	-15.09	3	Horizontal	0	1.00
2437MHz_TX	Pass	PK	239.52M	28.09	46.00	-17.91	3	Horizontal	0	1.00
2437MHz_TX	Pass	PK	559.62M	27.37	46.00	-18.63	3	Horizontal	0	1.00
2437MHz_TX	Pass	PK	945.68M	32.79	46.00	-13.21	3	Horizontal	0	1.00

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

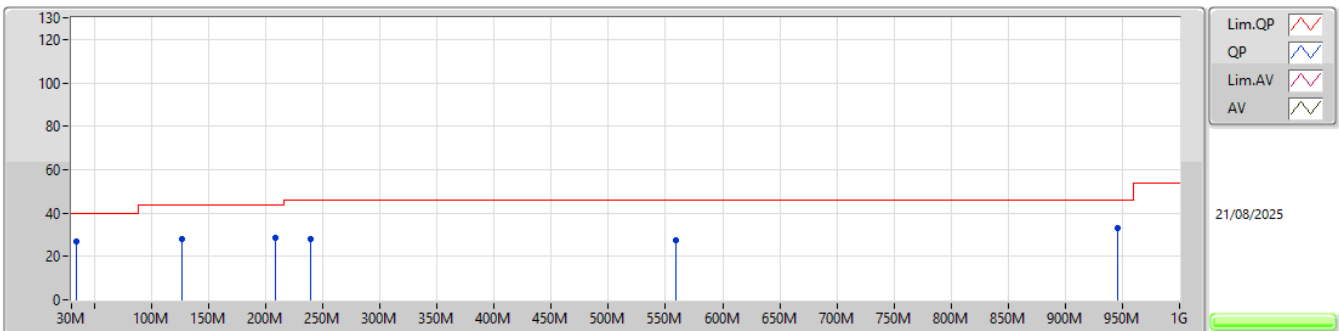
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	202.66M	30.76	43.50	-12.74	-20.55	3	Vertical	360	1.00	51.31	14.02	1.67	36.24
PK	239.52M	35.10	46.00	-10.90	-18.34	3	Vertical	360	1.00	53.44	16.09	1.82	36.25
PK	367.56M	32.24	46.00	-13.76	-14.39	3	Vertical	360	1.00	46.63	19.80	2.32	36.51
PK	776.9M	31.86	46.00	-14.14	-6.59	3	Vertical	360	1.00	38.45	27.28	3.56	37.43
PK	840.92M	32.84	46.00	-13.16	-5.61	3	Vertical	360	1.00	38.45	28.09	3.75	37.45
PK	949.56M	31.78	46.00	-14.22	-3.57	3	Vertical	360	1.00	35.35	29.76	4.06	37.39

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	26.75	40.00	-13.25	-14.94	3	Horizontal	0	1.00	41.69	21.60	0.66	37.20
PK	127M	27.82	43.50	-15.68	-18.53	3	Horizontal	0	1.00	46.35	16.65	1.29	36.47
PK	208.48M	28.41	43.50	-15.09	-20.57	3	Horizontal	0	1.00	48.98	13.98	1.69	36.24
PK	239.52M	28.09	46.00	-17.91	-18.34	3	Horizontal	0	1.00	46.43	16.09	1.82	36.25
PK	559.62M	27.37	46.00	-18.63	-9.07	3	Horizontal	0	1.00	36.44	25.02	2.94	37.03
PK	945.68M	32.79	46.00	-13.21	-3.79	3	Horizontal	0	1.00	36.58	29.55	4.05	37.39

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.4848G	50.29	54.00	-3.71	3	Horizontal	62	2.91
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	53.57	54.00	-0.43	3	Horizontal	62	2.97
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	2.39G	73.69	74.00	-0.31	3	Horizontal	67	3.00
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.71	54.00	-0.29	3	Horizontal	62	2.96

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_TX	Pass	AV	2.3898G	49.57	54.00	-4.43	3	Horizontal	62	3.00
2412MHz_TX	Pass	AV	2.4128G	107.22	Inf	-Inf	3	Horizontal	62	3.00
2412MHz_TX	Pass	PK	2.3824G	61.27	74.00	-12.73	3	Horizontal	62	3.00
2412MHz_TX	Pass	PK	2.4118G	109.92	Inf	-Inf	3	Horizontal	62	3.00
2412MHz_TX	Pass	AV	4.82396G	44.59	54.00	-9.41	3	Vertical	138	1.16
2412MHz_TX	Pass	PK	4.82402G	51.65	74.00	-22.35	3	Vertical	138	1.16
2412MHz_TX	Pass	AV	4.82396G	43.50	54.00	-10.50	3	Horizontal	280	1.00
2412MHz_TX	Pass	PK	4.82406G	50.93	74.00	-23.07	3	Horizontal	280	1.00
2437MHz_TX	Pass	AV	2.3562G	48.72	54.00	-5.28	3	Horizontal	62	2.93
2437MHz_TX	Pass	AV	2.4378G	107.12	Inf	-Inf	3	Horizontal	62	2.93
2437MHz_TX	Pass	AV	2.4986G	49.65	54.00	-4.35	3	Horizontal	62	2.93
2437MHz_TX	Pass	PK	2.3882G	60.03	74.00	-13.97	3	Horizontal	62	2.93
2437MHz_TX	Pass	PK	2.437G	109.87	Inf	-Inf	3	Horizontal	62	2.93
2437MHz_TX	Pass	PK	2.4878G	61.39	74.00	-12.61	3	Horizontal	62	2.93
2437MHz_TX	Pass	AV	4.87382G	41.98	54.00	-12.02	3	Vertical	358	1.00
2437MHz_TX	Pass	AV	7.30986G	48.63	54.00	-5.37	3	Vertical	259	2.31
2437MHz_TX	Pass	PK	4.87406G	50.21	74.00	-23.79	3	Vertical	358	1.00
2437MHz_TX	Pass	PK	7.31016G	56.62	74.00	-17.38	3	Vertical	259	2.31
2437MHz_TX	Pass	AV	4.87382G	41.69	54.00	-12.31	3	Horizontal	279	1.00
2437MHz_TX	Pass	AV	7.3098G	45.04	54.00	-8.96	3	Horizontal	212	2.31
2437MHz_TX	Pass	PK	4.87394G	50.05	74.00	-23.95	3	Horizontal	279	1.00
2437MHz_TX	Pass	PK	7.31076G	54.83	74.00	-19.17	3	Horizontal	212	2.31
2462MHz_TX	Pass	AV	2.4612G	106.84	Inf	-Inf	3	Horizontal	62	2.91
2462MHz_TX	Pass	AV	2.4848G	50.29	54.00	-3.71	3	Horizontal	62	2.91
2462MHz_TX	Pass	PK	2.462G	109.60	Inf	-Inf	3	Horizontal	62	2.91
2462MHz_TX	Pass	PK	2.4864G	62.18	74.00	-11.82	3	Horizontal	62	2.91
2462MHz_TX	Pass	AV	4.92382G	40.28	54.00	-13.72	3	Vertical	205	1.50
2462MHz_TX	Pass	AV	7.38492G	47.50	54.00	-6.50	3	Vertical	261	2.39
2462MHz_TX	Pass	PK	4.92388G	49.77	74.00	-24.23	3	Vertical	205	1.50
2462MHz_TX	Pass	PK	7.38498G	55.53	74.00	-18.47	3	Vertical	261	2.39
2462MHz_TX	Pass	AV	4.92382G	40.85	54.00	-13.15	3	Horizontal	226	1.26
2462MHz_TX	Pass	AV	7.38474G	44.83	54.00	-9.17	3	Horizontal	211	1.50
2462MHz_TX	Pass	PK	4.924G	49.86	74.00	-24.14	3	Horizontal	226	1.26
2462MHz_TX	Pass	PK	7.38672G	54.23	74.00	-19.77	3	Horizontal	211	1.50
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.39G	53.24	54.00	-0.76	3	Horizontal	62	3.00
2412MHz_TX	Pass	AV	2.4142G	101.44	Inf	-Inf	3	Horizontal	62	3.00
2412MHz_TX	Pass	PK	2.3898G	70.66	74.00	-3.34	3	Horizontal	62	3.00
2412MHz_TX	Pass	PK	2.4136G	109.73	Inf	-Inf	3	Horizontal	62	3.00
2412MHz_TX	Pass	AV	4.82376G	36.79	54.00	-17.21	3	Vertical	139	1.17
2412MHz_TX	Pass	PK	4.82454G	48.44	74.00	-25.56	3	Vertical	139	1.17
2412MHz_TX	Pass	AV	4.82382G	36.43	54.00	-17.57	3	Horizontal	287	1.01
2412MHz_TX	Pass	PK	4.82022G	47.90	74.00	-26.10	3	Horizontal	287	1.01
2417MHz_TX	Pass	AV	2.3898G	52.12	54.00	-1.88	3	Horizontal	63	3.00
2417MHz_TX	Pass	AV	2.4146G	102.00	Inf	-Inf	3	Horizontal	63	3.00
2417MHz_TX	Pass	PK	2.3898G	69.53	74.00	-4.47	3	Horizontal	63	3.00
2417MHz_TX	Pass	PK	2.4186G	110.39	Inf	-Inf	3	Horizontal	63	3.00
2437MHz_TX	Pass	AV	2.3898G	49.10	54.00	-4.90	3	Horizontal	62	2.94
2437MHz_TX	Pass	AV	2.441G	102.04	Inf	-Inf	3	Horizontal	62	2.94
2437MHz_TX	Pass	AV	2.4914G	49.84	54.00	-4.16	3	Horizontal	62	2.94
2437MHz_TX	Pass	PK	2.383G	60.17	74.00	-13.83	3	Horizontal	62	2.94
2437MHz_TX	Pass	PK	2.4386G	110.20	Inf	-Inf	3	Horizontal	62	2.94
2437MHz_TX	Pass	PK	2.4902G	61.26	74.00	-12.74	3	Horizontal	62	2.94
2437MHz_TX	Pass	AV	4.87376G	36.55	54.00	-17.45	3	Vertical	2	1.03
2437MHz_TX	Pass	AV	7.31016G	44.32	54.00	-9.68	3	Vertical	261	2.14
2437MHz_TX	Pass	PK	4.8878G	48.12	74.00	-25.88	3	Vertical	2	1.03
2437MHz_TX	Pass	PK	7.31292G	56.91	74.00	-17.09	3	Vertical	261	2.14
2437MHz_TX	Pass	AV	4.88756G	36.15	54.00	-17.85	3	Horizontal	54	1.50
2437MHz_TX	Pass	AV	7.31022G	42.59	54.00	-11.41	3	Horizontal	214	1.14
2437MHz_TX	Pass	PK	4.88534G	48.08	74.00	-25.92	3	Horizontal	54	1.50

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz_TX	Pass	PK	7.30734G	54.88	74.00	-19.12	3	Horizontal	214	1.14
2457MHz_TX	Pass	AV	2.4546G	101.70	Inf	-Inf	3	Horizontal	63	2.92
2457MHz_TX	Pass	AV	2.4835G	52.90	54.00	-1.10	3	Horizontal	63	2.92
2457MHz_TX	Pass	PK	2.4584G	109.99	Inf	-Inf	3	Horizontal	63	2.92
2457MHz_TX	Pass	PK	2.4835G	69.20	74.00	-4.80	3	Horizontal	63	2.92
2462MHz_TX	Pass	AV	2.4594G	100.84	Inf	-Inf	3	Horizontal	62	2.97
2462MHz_TX	Pass	AV	2.4835G	53.57	54.00	-0.43	3	Horizontal	62	2.97
2462MHz_TX	Pass	PK	2.4634G	108.91	Inf	-Inf	3	Horizontal	62	2.97
2462MHz_TX	Pass	PK	2.4838G	71.25	74.00	-2.75	3	Horizontal	62	2.97
2462MHz_TX	Pass	AV	4.92958G	36.58	54.00	-17.42	3	Vertical	360	1.50
2462MHz_TX	Pass	AV	7.38342G	42.54	54.00	-11.46	3	Vertical	262	2.59
2462MHz_TX	Pass	PK	4.92976G	47.84	74.00	-26.16	3	Vertical	360	1.50
2462MHz_TX	Pass	PK	7.38282G	54.49	74.00	-19.51	3	Vertical	262	2.59
2462MHz_TX	Pass	AV	4.92904G	36.51	54.00	-17.49	3	Horizontal	148	2.36
2462MHz_TX	Pass	AV	7.38714G	41.72	54.00	-12.28	3	Horizontal	214	1.00
2462MHz_TX	Pass	PK	4.92424G	47.92	74.00	-26.08	3	Horizontal	148	2.36
2462MHz_TX	Pass	PK	7.39008G	53.42	74.00	-20.58	3	Horizontal	214	1.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	2.3898G	53.22	54.00	-0.78	3	Horizontal	67	3.00
2412MHz_TX	Pass	AV	2.415G	100.62	Inf	-Inf	3	Horizontal	67	3.00
2412MHz_TX	Pass	PK	2.39G	73.69	74.00	-0.31	3	Horizontal	67	3.00
2412MHz_TX	Pass	PK	2.409G	109.31	Inf	-Inf	3	Horizontal	67	3.00
2412MHz_TX	Pass	AV	4.8213G	36.26	54.00	-17.74	3	Vertical	137	1.00
2412MHz_TX	Pass	PK	4.83282G	48.44	74.00	-25.56	3	Vertical	137	1.00
2412MHz_TX	Pass	AV	4.82016G	36.11	54.00	-17.89	3	Horizontal	284	1.13
2412MHz_TX	Pass	PK	4.81452G	47.72	74.00	-26.28	3	Horizontal	284	1.13
2437MHz_TX	Pass	AV	2.3898G	48.58	54.00	-5.42	3	Horizontal	64	2.96
2437MHz_TX	Pass	AV	2.4402G	99.96	Inf	-Inf	3	Horizontal	64	2.96
2437MHz_TX	Pass	AV	2.4998G	49.37	54.00	-4.63	3	Horizontal	64	2.96
2437MHz_TX	Pass	PK	2.3458G	61.18	74.00	-12.82	3	Horizontal	64	2.96
2437MHz_TX	Pass	PK	2.4342G	108.79	Inf	-Inf	3	Horizontal	64	2.96
2437MHz_TX	Pass	PK	2.499G	61.37	74.00	-12.63	3	Horizontal	64	2.96
2437MHz_TX	Pass	AV	4.88762G	36.01	54.00	-17.99	3	Vertical	0	1.50
2437MHz_TX	Pass	AV	7.30638G	43.04	54.00	-10.96	3	Vertical	261	2.22
2437MHz_TX	Pass	PK	4.87532G	48.07	74.00	-25.93	3	Vertical	0	1.50
2437MHz_TX	Pass	PK	7.31226G	55.44	74.00	-18.56	3	Vertical	261	2.22
2437MHz_TX	Pass	AV	4.88696G	35.93	54.00	-18.07	3	Horizontal	23	1.50
2437MHz_TX	Pass	AV	7.30662G	41.88	54.00	-12.12	3	Horizontal	215	1.12
2437MHz_TX	Pass	PK	4.86248G	47.88	74.00	-26.12	3	Horizontal	23	1.50
2437MHz_TX	Pass	PK	7.30014G	53.57	74.00	-20.43	3	Horizontal	215	1.12
2457MHz_TX	Pass	AV	2.4538G	99.29	Inf	-Inf	3	Horizontal	70	2.94
2457MHz_TX	Pass	AV	2.4835G	50.72	54.00	-3.28	3	Horizontal	70	2.94
2457MHz_TX	Pass	PK	2.454G	108.45	Inf	-Inf	3	Horizontal	70	2.94
2457MHz_TX	Pass	PK	2.4836G	65.35	74.00	-8.65	3	Horizontal	70	2.94
2462MHz_TX	Pass	AV	2.4588G	99.27	Inf	-Inf	3	Horizontal	70	2.90
2462MHz_TX	Pass	AV	2.4835G	53.22	54.00	-0.78	3	Horizontal	70	2.90
2462MHz_TX	Pass	PK	2.459G	108.43	Inf	-Inf	3	Horizontal	70	2.90
2462MHz_TX	Pass	PK	2.484G	72.21	74.00	-1.79	3	Horizontal	70	2.90
2462MHz_TX	Pass	AV	4.93738G	35.99	54.00	-18.01	3	Vertical	314	1.50
2462MHz_TX	Pass	AV	7.3818G	41.61	54.00	-12.39	3	Vertical	263	2.10
2462MHz_TX	Pass	PK	4.92376G	47.83	74.00	-26.17	3	Vertical	314	1.50
2462MHz_TX	Pass	PK	7.38768G	53.66	74.00	-20.34	3	Vertical	263	2.10
2462MHz_TX	Pass	AV	4.93876G	35.98	54.00	-18.02	3	Horizontal	357	1.50
2462MHz_TX	Pass	AV	7.38216G	40.91	54.00	-13.09	3	Horizontal	211	2.24
2462MHz_TX	Pass	PK	4.92574G	47.35	74.00	-26.65	3	Horizontal	357	1.50
2462MHz_TX	Pass	PK	7.3809G	53.40	74.00	-20.60	3	Horizontal	211	2.24
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2422MHz_TX	Pass	AV	2.39G	51.02	54.00	-2.98	3	Horizontal	68	3.00
2422MHz_TX	Pass	AV	2.4164G	96.05	Inf	-Inf	3	Horizontal	68	3.00
2422MHz_TX	Pass	AV	2.4844G	49.53	54.00	-4.47	3	Horizontal	68	3.00
2422MHz_TX	Pass	PK	2.3896G	68.38	74.00	-5.62	3	Horizontal	68	3.00
2422MHz_TX	Pass	PK	2.4288G	105.27	Inf	-Inf	3	Horizontal	68	3.00



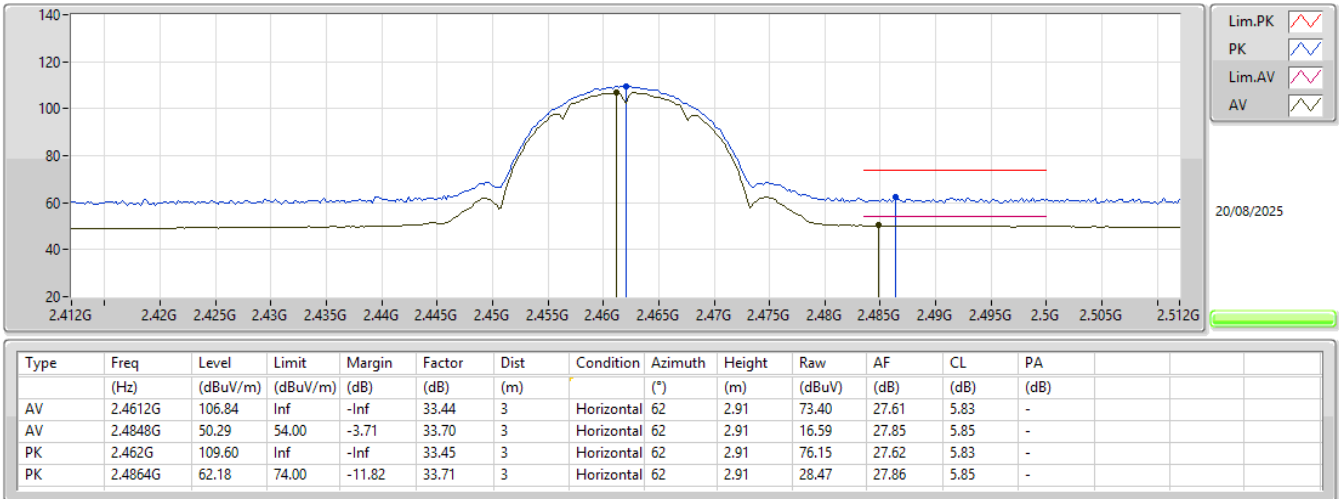
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2422MHz_TX	Pass	PK	2.4848G	61.28	74.00	-12.72	3	Horizontal	68	3.00
2422MHz_TX	Pass	AV	4.8638G	35.96	54.00	-18.04	3	Vertical	337	1.80
2422MHz_TX	Pass	AV	7.2864G	41.50	54.00	-12.50	3	Vertical	290	2.25
2422MHz_TX	Pass	PK	4.82204G	48.60	74.00	-25.40	3	Vertical	337	1.80
2422MHz_TX	Pass	PK	7.26724G	53.00	74.00	-21.00	3	Vertical	290	2.25
2422MHz_TX	Pass	AV	4.85972G	35.97	54.00	-18.03	3	Horizontal	231	1.15
2422MHz_TX	Pass	AV	7.28988G	41.27	54.00	-12.73	3	Horizontal	108	3.00
2422MHz_TX	Pass	PK	4.85216G	47.84	74.00	-26.16	3	Horizontal	231	1.15
2422MHz_TX	Pass	PK	7.25868G	53.48	74.00	-20.52	3	Horizontal	108	3.00
2437MHz_TX	Pass	AV	2.3898G	49.77	54.00	-4.23	3	Horizontal	62	2.94
2437MHz_TX	Pass	AV	2.4426G	96.72	Inf	-Inf	3	Horizontal	62	2.94
2437MHz_TX	Pass	AV	2.4835G	51.37	54.00	-2.63	3	Horizontal	62	2.94
2437MHz_TX	Pass	PK	2.389G	64.12	74.00	-9.88	3	Horizontal	62	2.94
2437MHz_TX	Pass	PK	2.4438G	105.97	Inf	-Inf	3	Horizontal	62	2.94
2437MHz_TX	Pass	PK	2.485G	66.29	74.00	-7.71	3	Horizontal	62	2.94
2437MHz_TX	Pass	AV	4.88732G	36.15	54.00	-17.85	3	Vertical	202	1.57
2437MHz_TX	Pass	AV	7.30044G	42.17	54.00	-11.83	3	Vertical	264	2.15
2437MHz_TX	Pass	PK	4.8446G	48.61	74.00	-25.39	3	Vertical	202	1.57
2437MHz_TX	Pass	PK	7.30584G	54.23	74.00	-19.77	3	Vertical	264	2.15
2437MHz_TX	Pass	AV	4.88744G	36.08	54.00	-17.92	3	Horizontal	297	1.78
2437MHz_TX	Pass	AV	7.29432G	41.47	54.00	-12.53	3	Horizontal	360	1.50
2437MHz_TX	Pass	PK	4.90232G	47.51	74.00	-26.49	3	Horizontal	297	1.78
2437MHz_TX	Pass	PK	7.30224G	53.33	74.00	-20.67	3	Horizontal	360	1.50
2447MHz_TX	Pass	AV	2.3898G	48.83	54.00	-5.17	3	Horizontal	62	2.95
2447MHz_TX	Pass	AV	2.445G	96.54	Inf	-Inf	3	Horizontal	62	2.95
2447MHz_TX	Pass	AV	2.4835G	53.55	54.00	-0.45	3	Horizontal	62	2.95
2447MHz_TX	Pass	PK	2.3886G	61.28	74.00	-12.72	3	Horizontal	62	2.95
2447MHz_TX	Pass	PK	2.4538G	105.62	Inf	-Inf	3	Horizontal	62	2.95
2447MHz_TX	Pass	PK	2.4835G	70.48	74.00	-3.52	3	Horizontal	62	2.95
2452MHz_TX	Pass	AV	2.39G	48.58	54.00	-5.42	3	Horizontal	62	2.96
2452MHz_TX	Pass	AV	2.4464G	96.13	Inf	-Inf	3	Horizontal	62	2.96
2452MHz_TX	Pass	AV	2.4835G	53.71	54.00	-0.29	3	Horizontal	62	2.96
2452MHz_TX	Pass	PK	2.3836G	61.03	74.00	-12.97	3	Horizontal	62	2.96
2452MHz_TX	Pass	PK	2.4448G	105.54	Inf	-Inf	3	Horizontal	62	2.96
2452MHz_TX	Pass	PK	2.4864G	71.90	74.00	-2.10	3	Horizontal	62	2.96
2452MHz_TX	Pass	AV	4.92992G	36.01	54.00	-17.99	3	Vertical	14	1.50
2452MHz_TX	Pass	AV	7.35684G	41.26	54.00	-12.74	3	Vertical	291	2.20
2452MHz_TX	Pass	PK	4.93304G	47.95	74.00	-26.05	3	Vertical	14	1.50
2452MHz_TX	Pass	PK	7.35864G	52.95	74.00	-21.05	3	Vertical	291	2.20
2452MHz_TX	Pass	AV	4.93376G	35.94	54.00	-18.06	3	Horizontal	76	2.76
2452MHz_TX	Pass	AV	7.35048G	41.26	54.00	-12.74	3	Horizontal	208	2.40
2452MHz_TX	Pass	PK	4.8962G	48.49	74.00	-25.51	3	Horizontal	76	2.76
2452MHz_TX	Pass	PK	7.35768G	52.81	74.00	-21.19	3	Horizontal	208	2.40

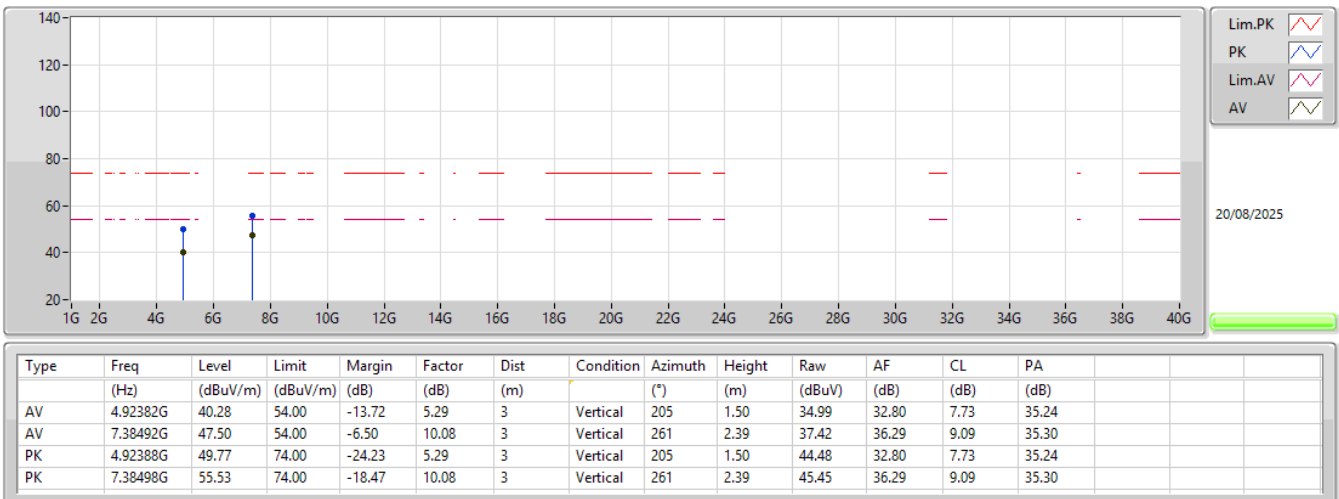
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



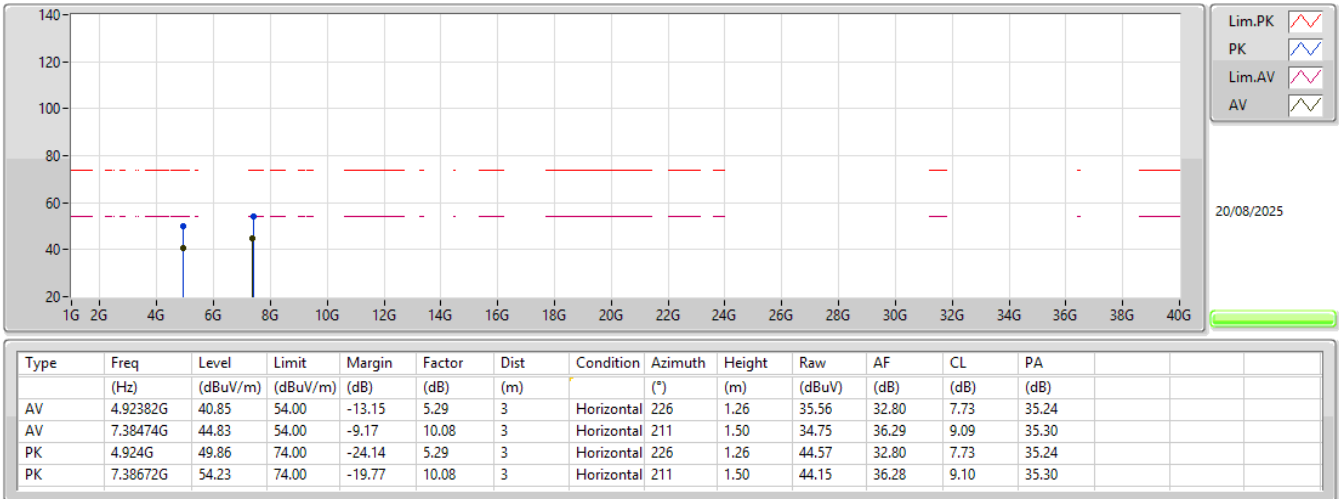
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



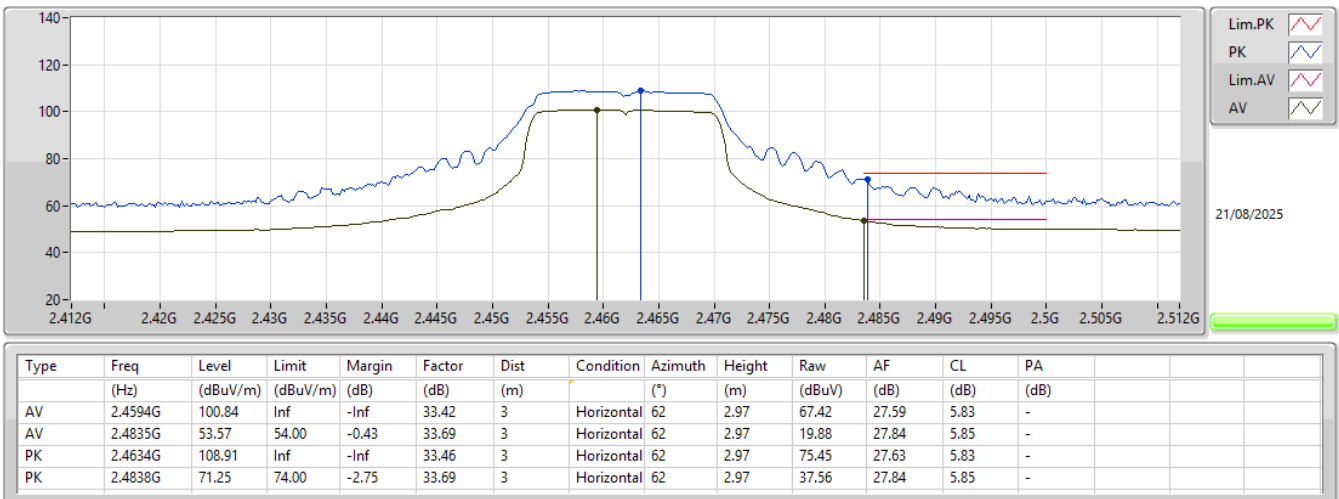
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



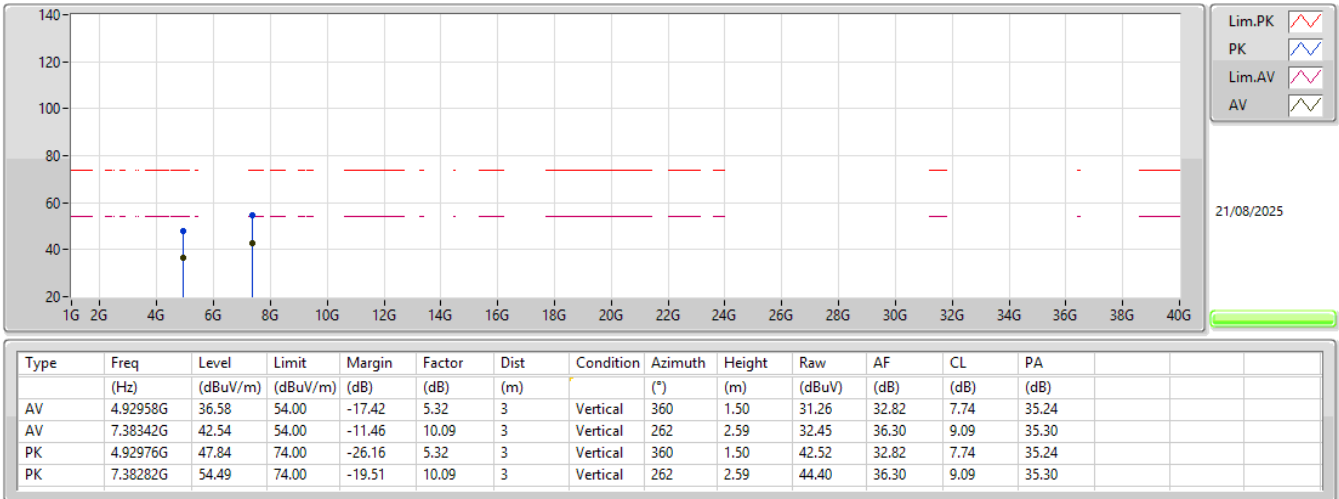
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



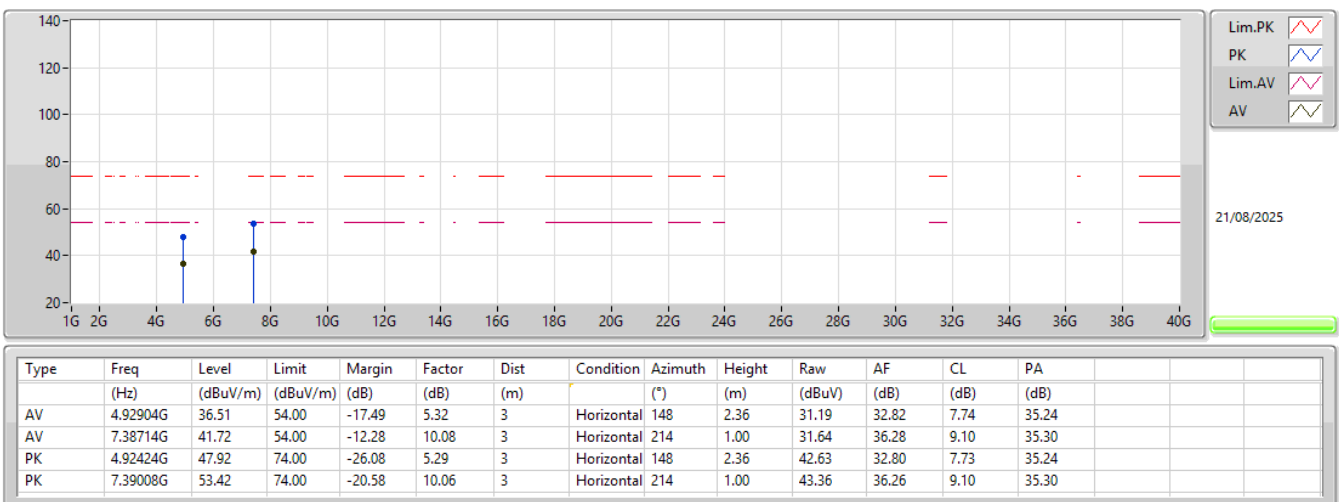
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



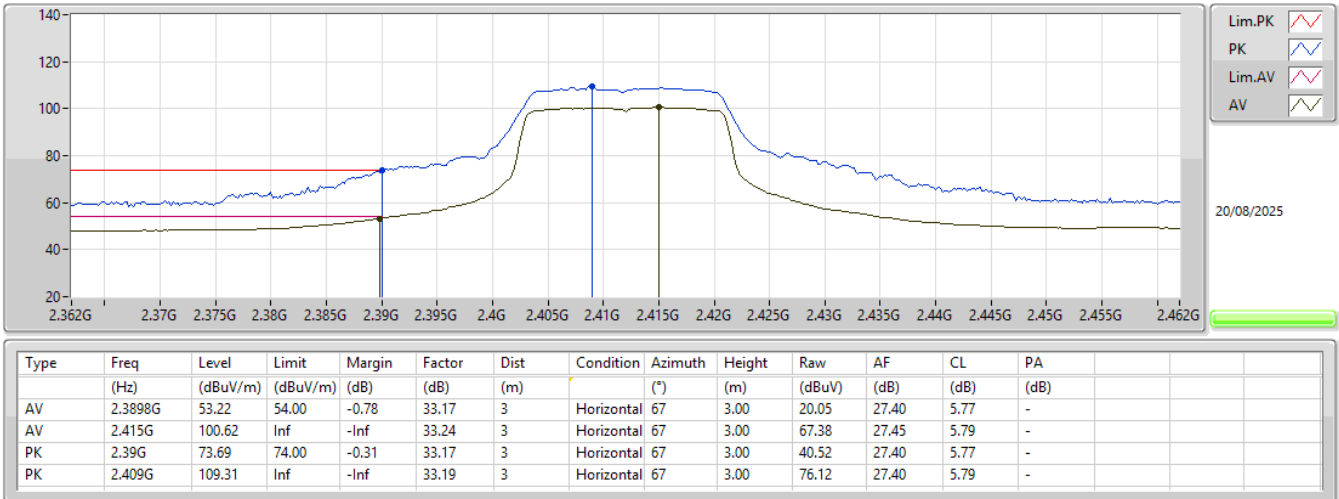
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



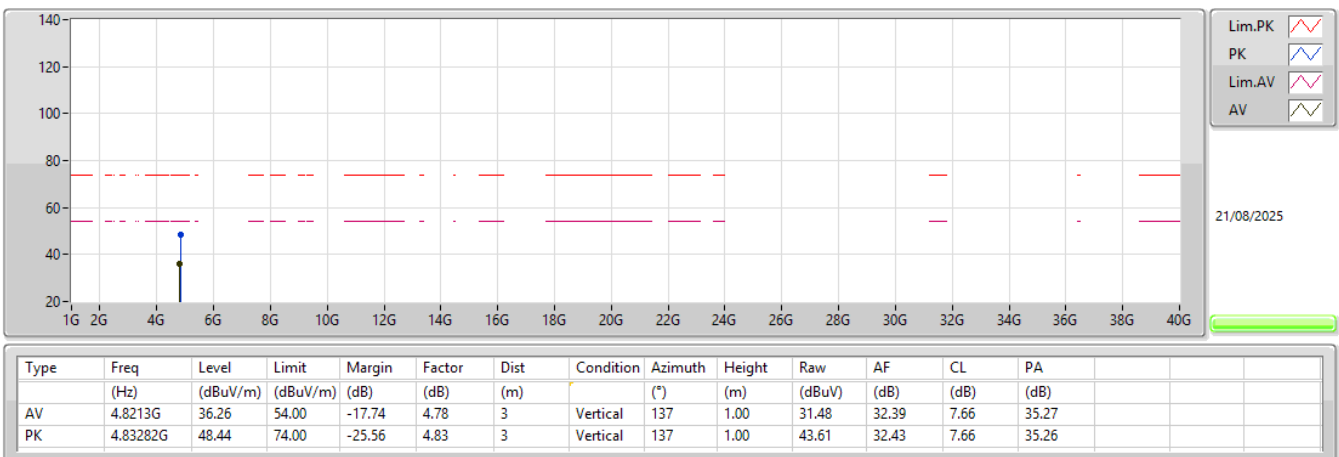
2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX



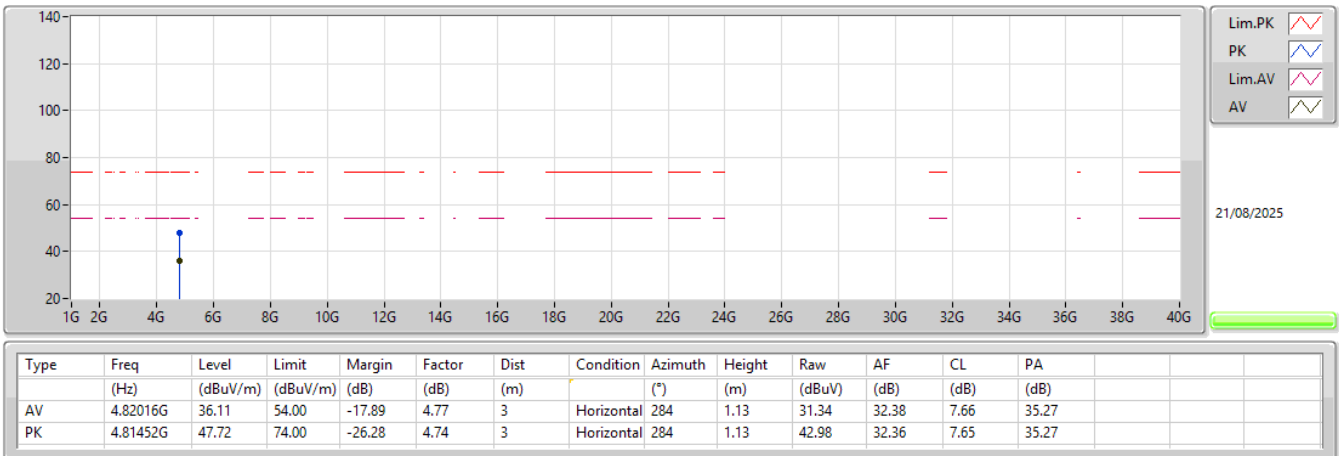
2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX

2412MHz_TX



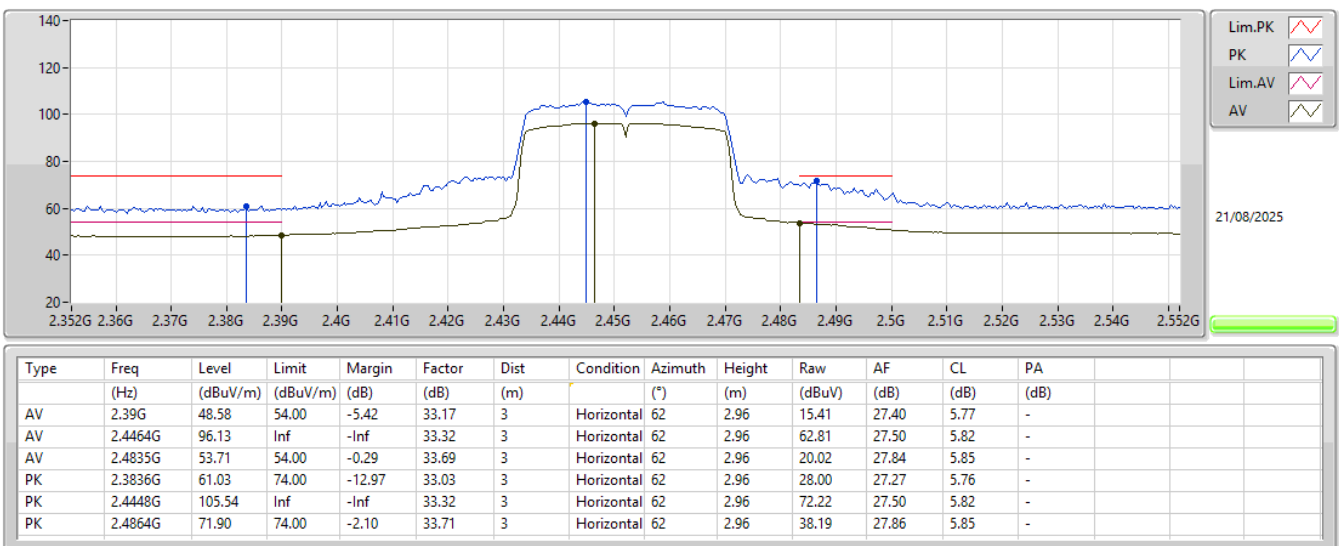
2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX



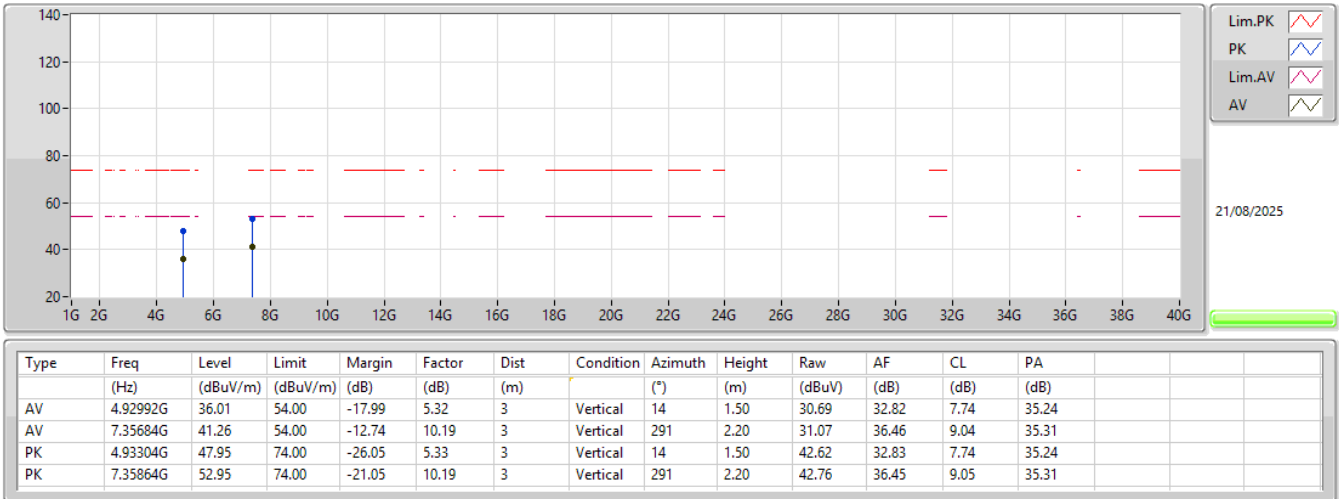
2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX

2452MHz_TX



2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2452MHz_TX



2.4-2.4835GHz_802.11n_HT40_Nss1,(MCS0)_1TX

2452MHz_TX

