

FCC Radio Test Report

FCC ID : 2BOYO-SGW-10
Contains FCC ID : XMR2021EM05G
Equipment : Wireless Security Gateway
Brand Name : SKS
Model Name : SGW-10-1
Applicant : TAIWAN SHIN KONG SECURITY CO.,LTD
No. 128, Xing'ai Rd., Neihu Dist., Taipei City 114508, Taiwan
Manufacturer : TAIWAN SHIN KONG SECURITY CO.,LTD
No. 128, Xing'ai Rd., Neihu Dist., Taipei City 114508, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Mar. 17, 2025, and testing was started from Apr. 01, 2025 and completed on Apr. 30, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR531001AC	01	Initial issue of report	May 19, 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: Sam Tsai

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.	Brand	Model Name	Antenna Type	Connector	Support
1	Dusun	DSGW-750-wifi1	PCB	N/A	WiFi 2.4G
2	Dusun	DSGW-750-wifi2	PCB	N/A	WiFi 2.4G
3	Dusun	DSM-04B	PCB	N/A	Matter
4	JESONcom	5Q004U	Dipole	I-Pex	Lora
5	JESONcom	32L008A	LDS	N/A	LTE

Ant.	Port	Gain (dBi)		
		2.4G	Matter	LoRa
1	1	1.42	-	-
2	2	1.54	-	-
3	1	-	2.41	-
4	1	-	-	2.48

Ant.	Port	WWAN antenna Gain (dBi)					
		LTE					
		Band 2	Band 4	Band 5	Band 7	Band 12	Band 13
5	1	1.89	2.8	0.43	2.88	4.3	0.76



Ant.	Port	WWAN antenna Gain (dBi)						
		LTE						
		Band 14	Band 25	Band 26	Band 38	Band 41	Band 66	Band 71
5	1	0.76	1.89	0.25	4.16	4.16	2.8	4.3

Note 1: The EUT has five antennas.

For 2.4GHz function:

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

Ant. 1 (port 1), Ant. 2 (port 2) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 1 (port 1) and it was recorded in this test report.

For Matter function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 3 (port 1) could transmit/receive.

For LoRa function:

For LoRa mode (1TX/1RX)

Ant. 4 (port 1) could transmit/receive.

For WWAN 4G function:

For WWAN 4G mode (1TX/1RX)

Ant. 5 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From 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(Port1)	0.983	0.07	8.419m	10Hz (DC>=0.98)
802.11g_Nss1,(6Mbps)_1TX(Port1)	0.907	0.42	1.4m	1k
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	0.905	0.43	1.313m	1k
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	0.825	0.84	653.125u	2k

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

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 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	Lego Lin	21.8~23.9°C / 53~57%	11/Apr/2025
RF Conducted	TH07-HY	Xun Hsieh	22.9~23.5°C / 48~54%	07/Apr/2025~08/Apr/2025
Radiated	03CH02-HY	Daniel Lin	20.8~23.4°C / 50~54%	01/Apr/2025~08/Apr/2025
Radiated (Co-Location)	03CH02-HY	Daniel Lin	22.4~23.9°C / 50~52%	30/Apr/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.				

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	4.53 dB	Confidence levels of 95%
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY Release 0.62
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Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX(Port1)	-
2412MHz	26.5
2437MHz	26.5
2462MHz	26.5
802.11g_Nss1,(6Mbps)_1TX(Port1)	-
2412MHz	23
2437MHz	23
2462MHz	23
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-
2412MHz	23
2437MHz	23
2457MHz	23
2462MHz	22.5
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-
2422MHz	18.5
2427MHz	22.5
2437MHz	23
2447MHz	22.5
2452MHz	20

2.2 The Worst Case Measurement Configuration

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

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	WLAN 2.4GHz+LoRa+Matter+LTE
Refer to Sporton Test Report No.: FA531001 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter 1 (TAIWAN Plug)	Brand Name	Sunun	Model Name	SA182V-050300U
	Manufacturer	Dongguan Sunun Power Co., Ltd	SN	-
	Power Rating	I/P: 100 - 240Vac, 0.4A, O/P: 90-264Vdc, 3A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
Battery	Brand Name	EVE	Model Name	ICR18650/26V
	Manufacturer	EVE Energy CO., LTD	SN	-
	Power Rating	3.6Vdc, 2550mAh	Type	Li-ion, Yes
RJ45 Cable	Brand Name	DONGGUAN AOC ELECTRONICSCO., LTD	Model Name	CON-C-984
	Signal Line	1.5 meter, shielded cable		

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

2.4 Support Equipment

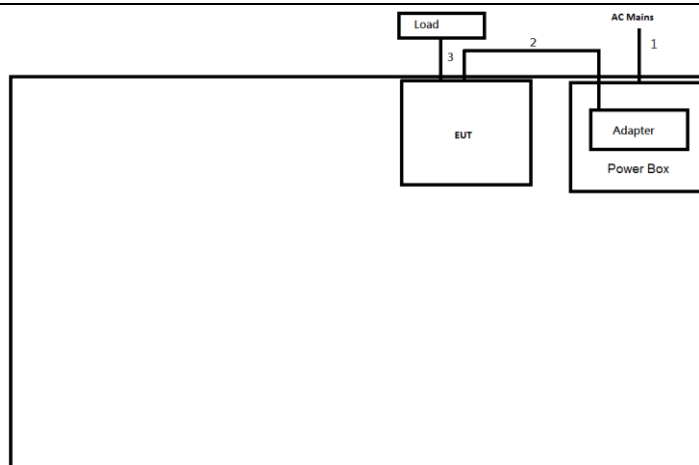
Support Equipment –AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Load	Sporton	Sporton	-	-

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

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

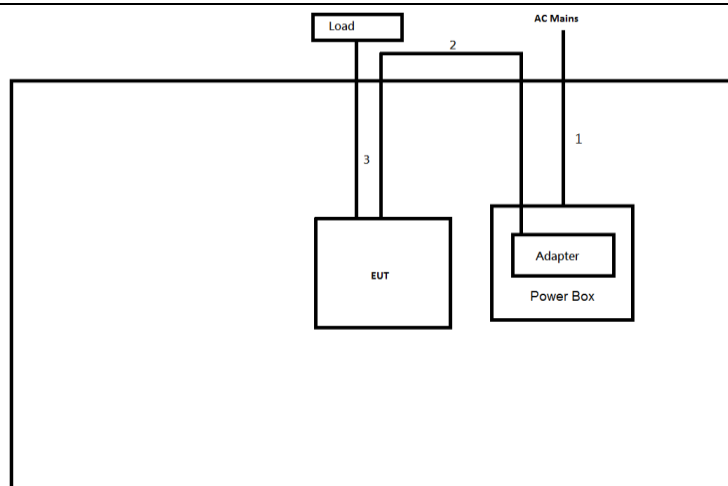
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RJ45 Cable	Yes	1.5	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-
3	RJ45 Cable	Yes	1.5	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

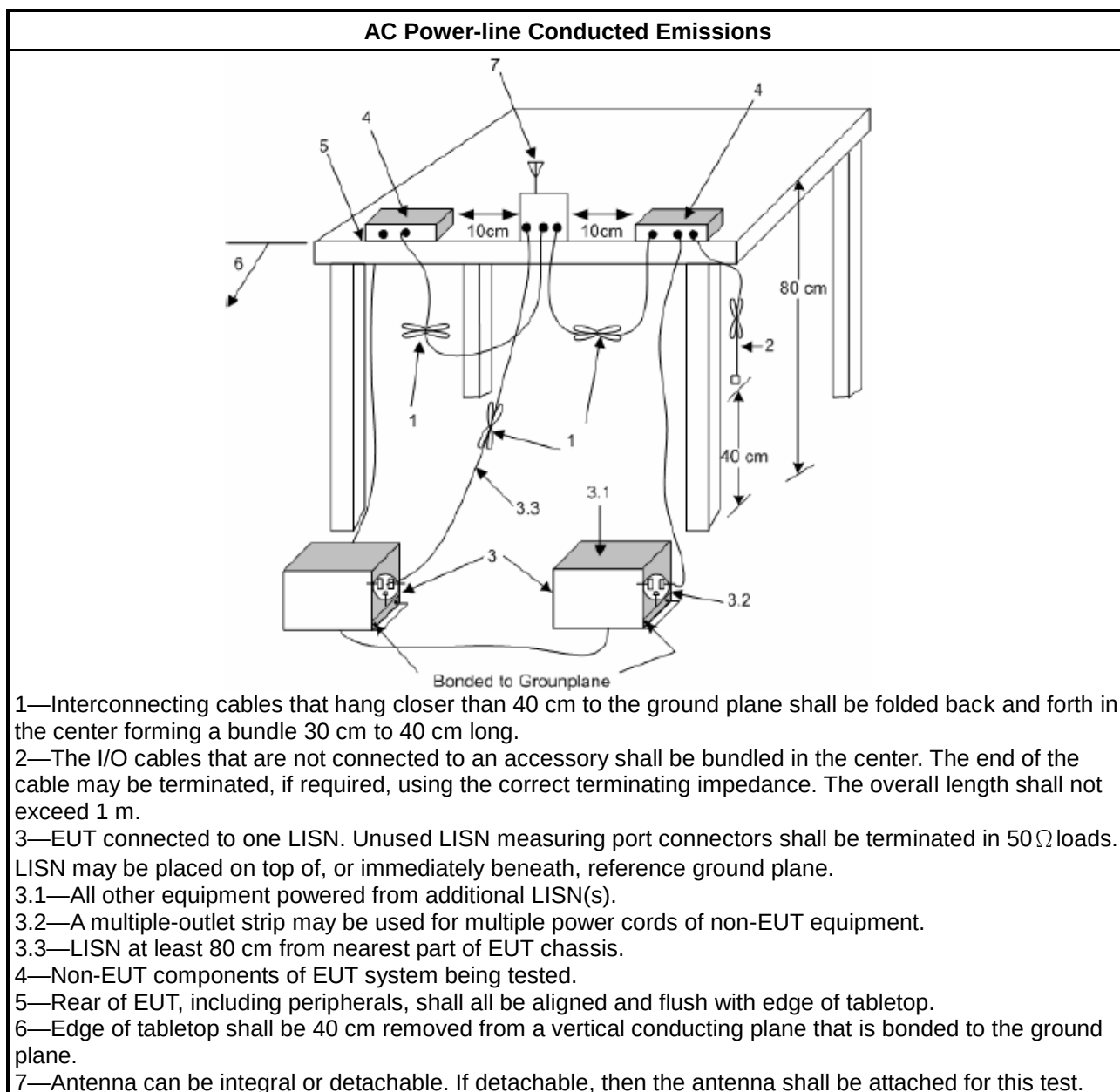
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

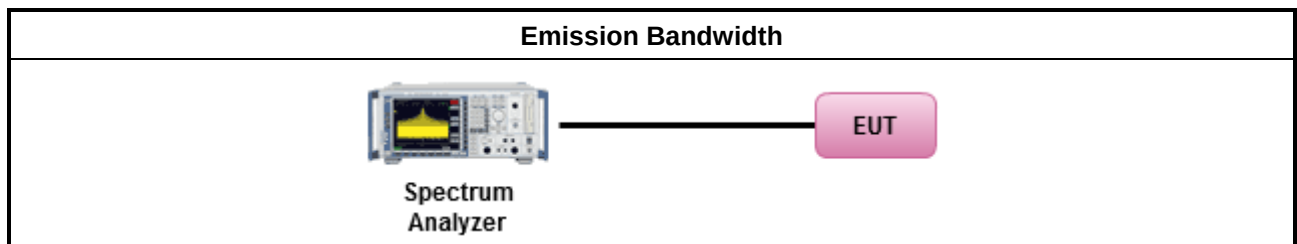
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

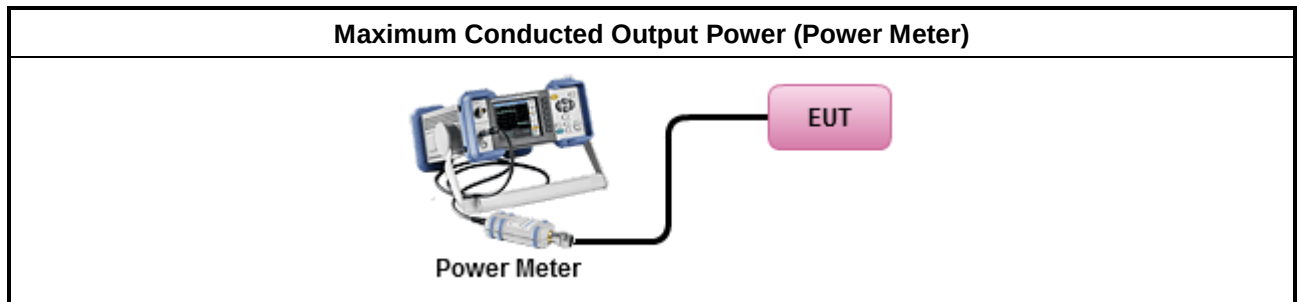
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

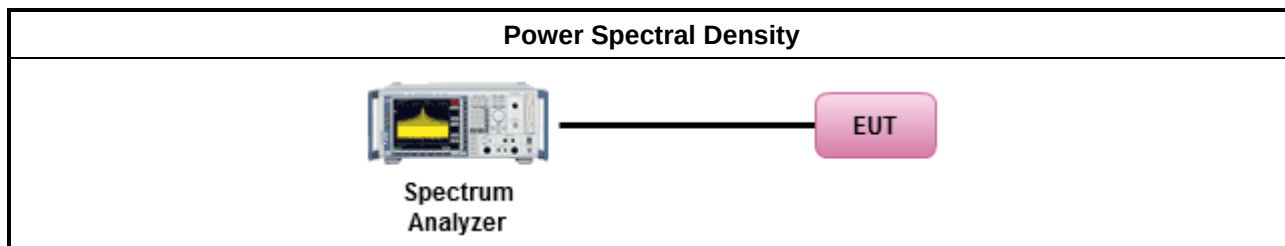
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

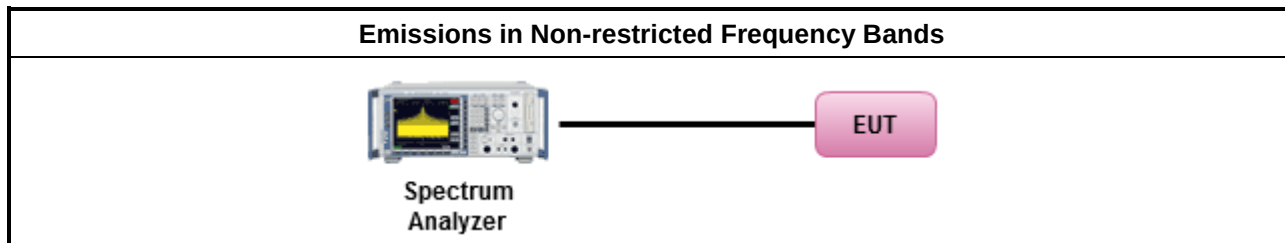
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

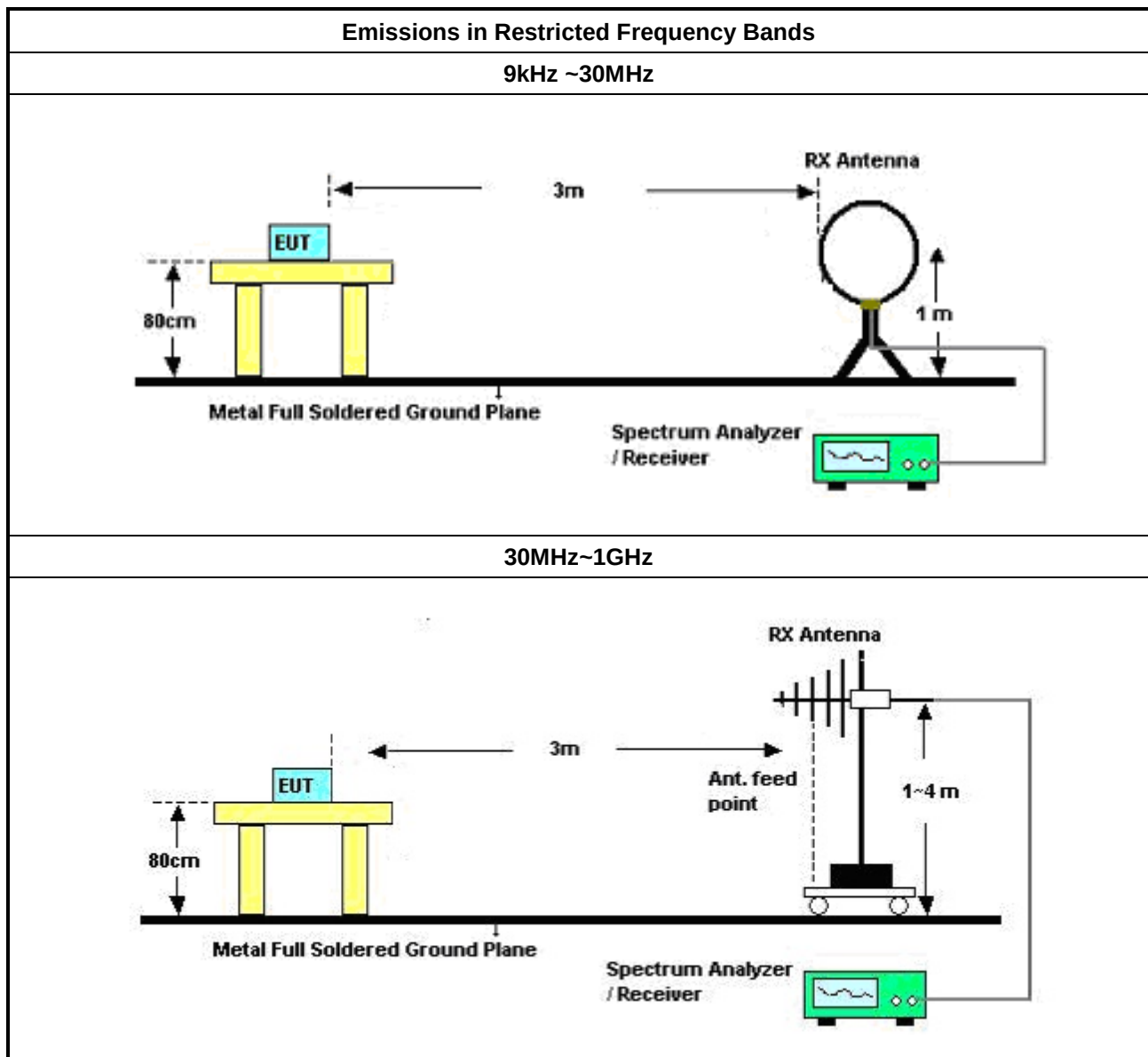
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪	For the transmitter band-edge emissions shall be measured using following options below:
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
▪	Use the following spectrum analyzer settings:
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

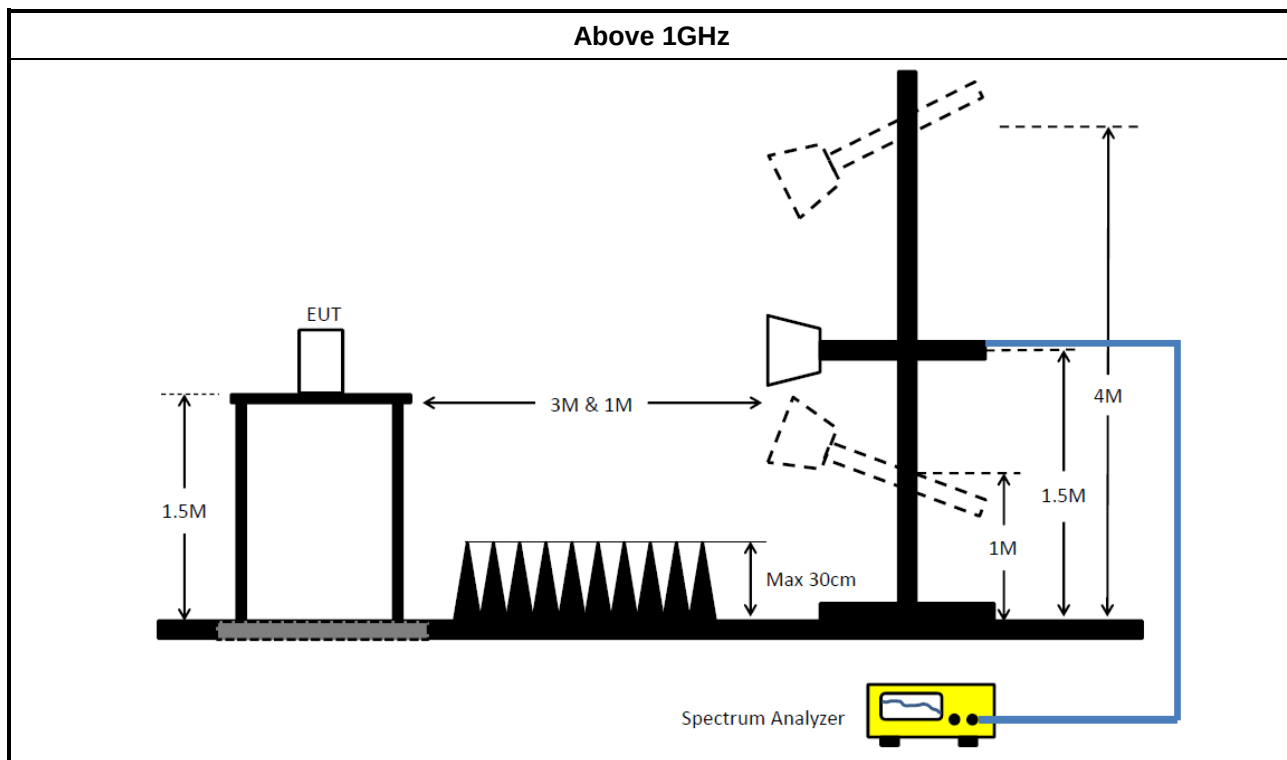
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 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 Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	17/May/2024	16/May/2025
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	11/Oct/2024	10/Oct/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required.

Instrument for Conducted Test

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

Instrument for Radiated Test (Co-Location)

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	18/Mar/2025	17/Mar/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~40GHz	18/Apr/2025	17/Apr/2026
SENSE-EMI	Sporton	V5.11.9	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (03CH02-HY)**

Instrument	Manufacturer/ Brand Name	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	14/Jul/2024	13/Jul/2025
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	03/May/2024	02/May/2025
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	18/Mar/2025	17/Mar/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	26/Aug/2024	25/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	26/Nov/2024	25/Nov/2025
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	26/Nov/2024	25/Nov/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2024	28/Jun/2025
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.23	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

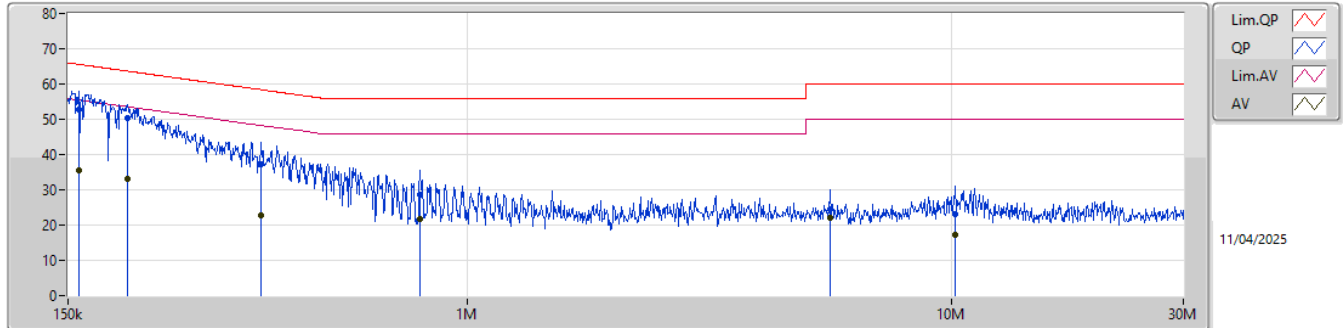
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	165.082k	53.95	65.20	-11.25	Neutral

Result

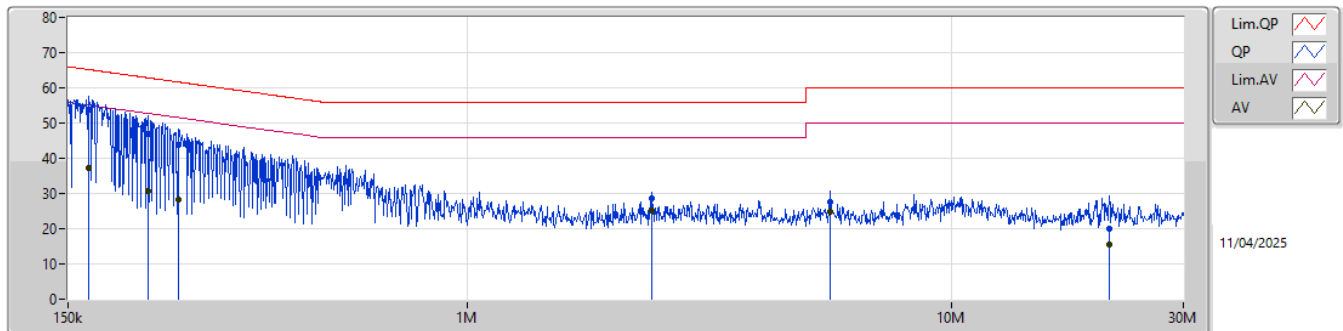
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	157.99k	52.93	65.56	-12.63	Line
Mode 1	Pass	AV	157.99k	35.41	55.56	-20.15	Line
Mode 1	Pass	QP	199.152k	50.35	63.65	-13.30	Line
Mode 1	Pass	AV	199.152k	33.26	53.65	-20.39	Line
Mode 1	Pass	QP	375.703k	37.38	58.37	-20.99	Line
Mode 1	Pass	AV	375.703k	22.79	48.37	-25.58	Line
Mode 1	Pass	QP	798.945k	28.76	56.00	-27.24	Line
Mode 1	Pass	AV	798.945k	21.77	46.00	-24.23	Line
Mode 1	Pass	QP	5.605M	24.48	60.00	-35.52	Line
Mode 1	Pass	AV	5.605M	22.03	50.00	-27.97	Line
Mode 1	Pass	QP	10.16M	23.16	60.00	-36.84	Line
Mode 1	Pass	AV	10.16M	17.17	50.00	-32.83	Line
Mode 1	Pass	QP	165.082k	53.95	65.20	-11.25	Neutral
Mode 1	Pass	AV	165.082k	37.36	55.20	-17.84	Neutral
Mode 1	Pass	QP	220.053k	46.93	62.81	-15.88	Neutral
Mode 1	Pass	AV	220.053k	30.66	52.81	-22.15	Neutral
Mode 1	Pass	QP	253.051k	43.86	61.66	-17.80	Neutral
Mode 1	Pass	AV	253.051k	28.28	51.66	-23.38	Neutral
Mode 1	Pass	QP	2.404M	28.59	56.00	-27.41	Neutral
Mode 1	Pass	AV	2.404M	25.18	46.00	-20.82	Neutral
Mode 1	Pass	QP	5.605M	27.63	60.00	-32.37	Neutral
Mode 1	Pass	AV	5.605M	24.74	50.00	-25.26	Neutral
Mode 1	Pass	QP	21.094M	20.14	60.00	-39.86	Neutral
Mode 1	Pass	AV	21.094M	15.53	50.00	-34.47	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	157.99k	52.93	65.56	-12.63	20.05	Line	-	32.88	10.07	0.01	9.97						
AV	157.99k	35.41	55.56	-20.15	20.05	Line	-	15.36	10.07	0.01	9.97						
QP	199.152k	50.35	63.65	-13.30	19.94	Line	-	30.41	9.96	0.01	9.97						
AV	199.152k	33.26	53.65	-20.39	19.94	Line	-	13.32	9.96	0.01	9.97						
QP	375.703k	37.38	58.37	-20.99	20.00	Line	-	17.38	9.99	0.03	9.98						
AV	375.703k	22.79	48.37	-25.58	20.00	Line	-	2.79	9.99	0.03	9.98						
QP	798.945k	28.76	56.00	-27.24	19.93	Line	-	8.83	9.90	0.05	9.98						
AV	798.945k	21.77	46.00	-24.23	19.93	Line	-	1.84	9.90	0.05	9.98						
QP	5.605M	24.48	60.00	-35.52	19.77	Line	-	4.71	9.67	0.12	9.98						
AV	5.605M	22.03	50.00	-27.97	19.77	Line	-	2.26	9.67	0.12	9.98						
QP	10.16M	23.16	60.00	-36.84	19.91	Line	-	3.25	9.69	0.24	9.98						
AV	10.16M	17.17	50.00	-32.83	19.91	Line	-	-2.74	9.69	0.24	9.98						

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	165.082k	53.95	65.20	-11.25	20.20	Neutral	-	33.75	10.22	0.01	9.97						
AV	165.082k	37.36	55.20	-17.84	20.20	Neutral	-	17.16	10.22	0.01	9.97						
QP	220.053k	46.93	62.81	-15.88	19.82	Neutral	-	27.11	9.84	0.01	9.97						
AV	220.053k	30.66	52.81	-22.15	19.82	Neutral	-	10.84	9.84	0.01	9.97						
QP	253.051k	43.86	61.66	-17.80	19.67	Neutral	-	24.19	9.68	0.02	9.97						
AV	253.051k	28.28	51.66	-23.38	19.67	Neutral	-	8.61	9.68	0.02	9.97						
QP	2.404M	28.59	56.00	-27.41	19.71	Neutral	-	8.88	9.70	0.04	9.97						
AV	2.404M	25.18	46.00	-20.82	19.71	Neutral	-	5.47	9.70	0.04	9.97						
QP	5.605M	27.63	60.00	-32.37	19.79	Neutral	-	7.84	9.69	0.12	9.98						
AV	5.605M	24.74	50.00	-25.26	19.79	Neutral	-	4.95	9.69	0.12	9.98						
QP	21.094M	20.14	60.00	-39.86	20.04	Neutral	-	0.10	9.77	0.29	9.98						
AV	21.094M	15.53	50.00	-34.47	20.04	Neutral	-	-4.51	9.77	0.29	9.98						

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX(Port1)	9.8M	14.318M	14M3G1D	9.025M	14.108M
802.11g_Nss1,(6Mbps)_1TX(Port1)	16.3M	16.536M	16M5D1D	12.825M	16.338M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	17.55M	17.591M	17M6D1D	14.575M	17.416M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	35M	35.782M	35M8D1D	28.8M	35.732M

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(Port1)	-	-	-	-
2412MHz	Pass	500k	9.025M	14.318M
2437MHz	Pass	500k	9.55M	14.183M
2462MHz	Pass	500k	9.8M	14.108M
802.11g_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-
2412MHz	Pass	500k	12.825M	16.338M
2437MHz	Pass	500k	15.65M	16.36M
2462MHz	Pass	500k	16.3M	16.536M
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-
2412MHz	Pass	500k	14.575M	17.591M
2437MHz	Pass	500k	16.9M	17.591M
2462MHz	Pass	500k	17.55M	17.416M
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-
2422MHz	Pass	500k	35M	35.732M
2437MHz	Pass	500k	28.8M	35.782M
2452MHz	Pass	500k	30.05M	35.732M

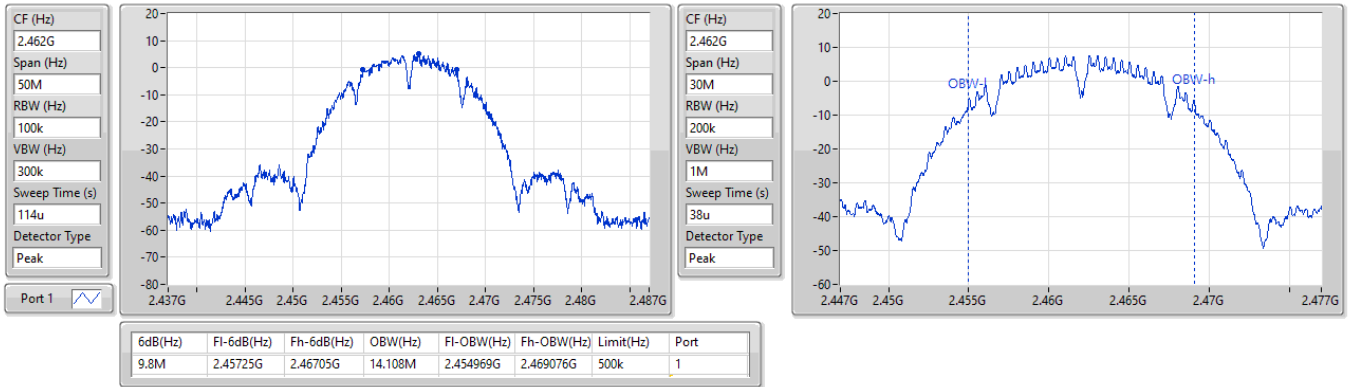
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX(Port1)

EBW

2462MHz

07/04/2025

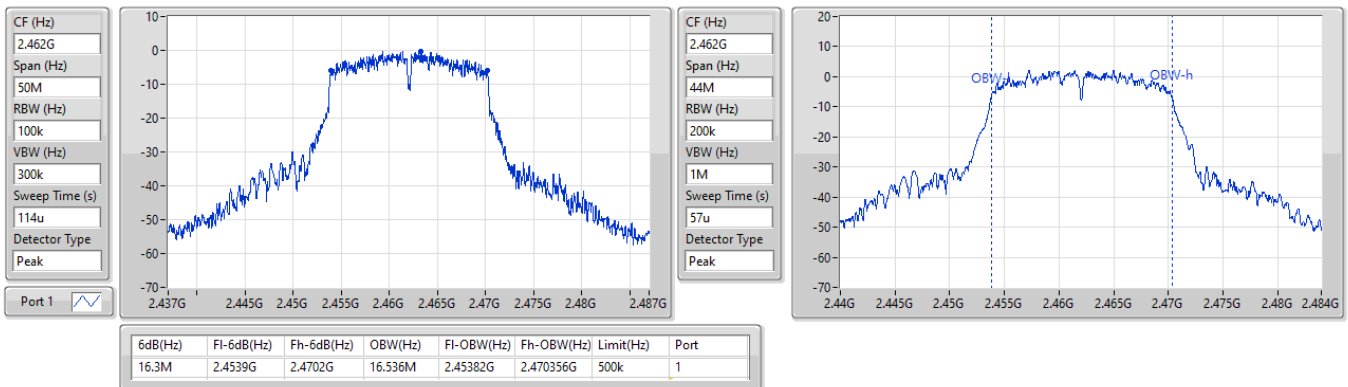


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX(Port1)

EBW

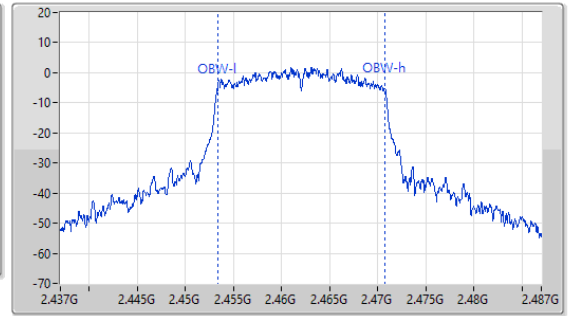
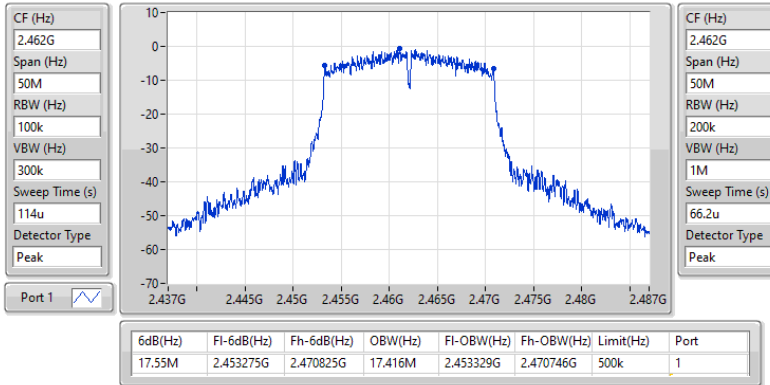
2462MHz

07/04/2025

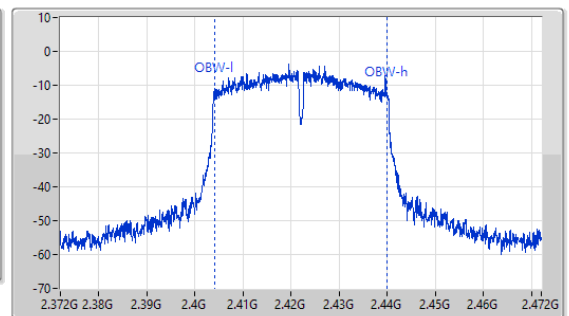
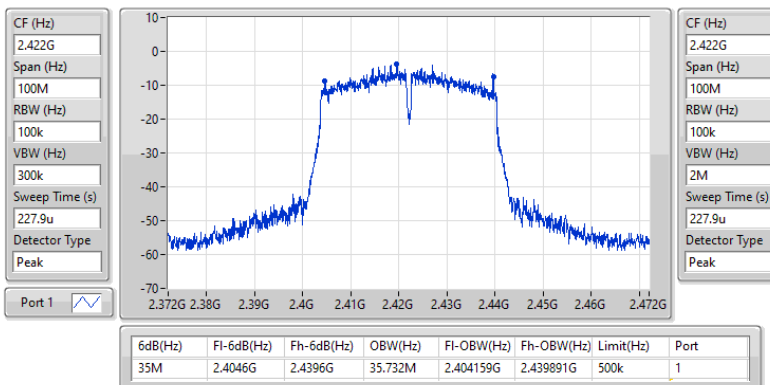


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)
EBW
2462MHz

07/04/2025


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)
EBW
2422MHz

07/04/2025





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX(Port1)	16.13	0.04102
802.11g_Nss1,(6Mbps)_1TX(Port1)	13.89	0.02449
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	13.71	0.02350
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	13.26	0.02118

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-
2412MHz	Pass	1.42	16.13	16.13	30.00
2437MHz	Pass	1.42	16.04	16.04	30.00
2462MHz	Pass	1.42	16.00	16.00	30.00
802.11g_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-
2412MHz	Pass	1.42	13.89	13.89	30.00
2437MHz	Pass	1.42	13.71	13.71	30.00
2462MHz	Pass	1.42	13.78	13.78	30.00
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-
2412MHz	Pass	1.42	13.71	13.71	30.00
2437MHz	Pass	1.42	13.65	13.65	30.00
2457MHz	Pass	1.42	13.59	13.59	30.00
2462MHz	Pass	1.42	13.16	13.16	30.00
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-
2422MHz	Pass	1.42	10.75	10.75	30.00
2427MHz	Pass	1.42	12.82	12.82	30.00
2437MHz	Pass	1.42	13.26	13.26	30.00
2447MHz	Pass	1.42	12.75	12.75	30.00
2452MHz	Pass	1.42	11.79	11.79	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(Port1)	-10.93
802.11g_Nss1,(6Mbps)_1TX(Port1)	-12.82
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-13.09
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-15.76

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX(Port1)	-	-	-	-	-
2412MHz	Pass	1.42	-10.93	-10.93	8.00
2437MHz	Pass	1.42	-11.96	-11.96	8.00
2462MHz	Pass	1.42	-11.35	-11.35	8.00
802.11g_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-
2412MHz	Pass	1.42	-13.43	-13.43	8.00
2437MHz	Pass	1.42	-12.82	-12.82	8.00
2462MHz	Pass	1.42	-13.62	-13.62	8.00
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-
2412MHz	Pass	1.42	-14.28	-14.28	8.00
2437MHz	Pass	1.42	-13.09	-13.09	8.00
2462MHz	Pass	1.42	-14.45	-14.45	8.00
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-
2422MHz	Pass	1.42	-18.52	-18.52	8.00
2437MHz	Pass	1.42	-15.76	-15.76	8.00
2452MHz	Pass	1.42	-17.22	-17.22	8.00

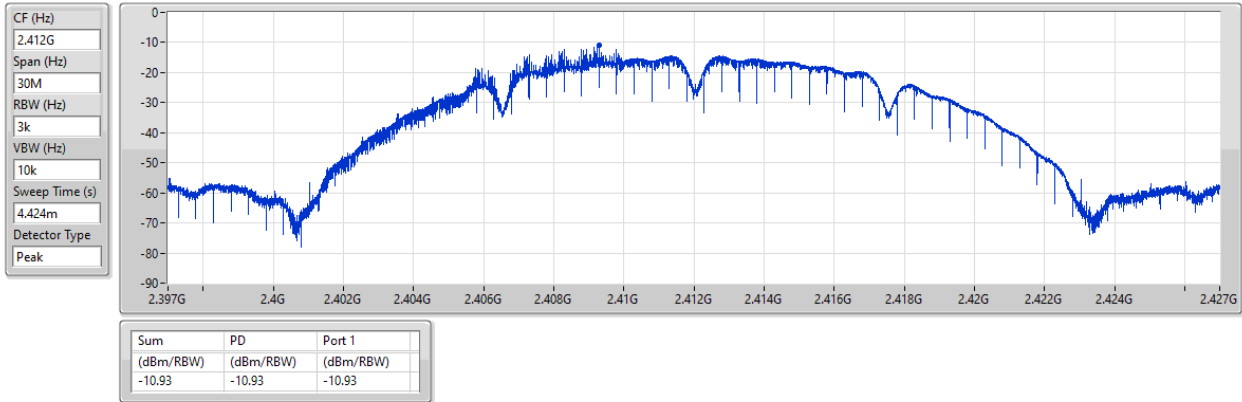
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
 Inf = There's no restriction for the limit.

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX(Port1)

PSD

2412MHz

07/04/2025

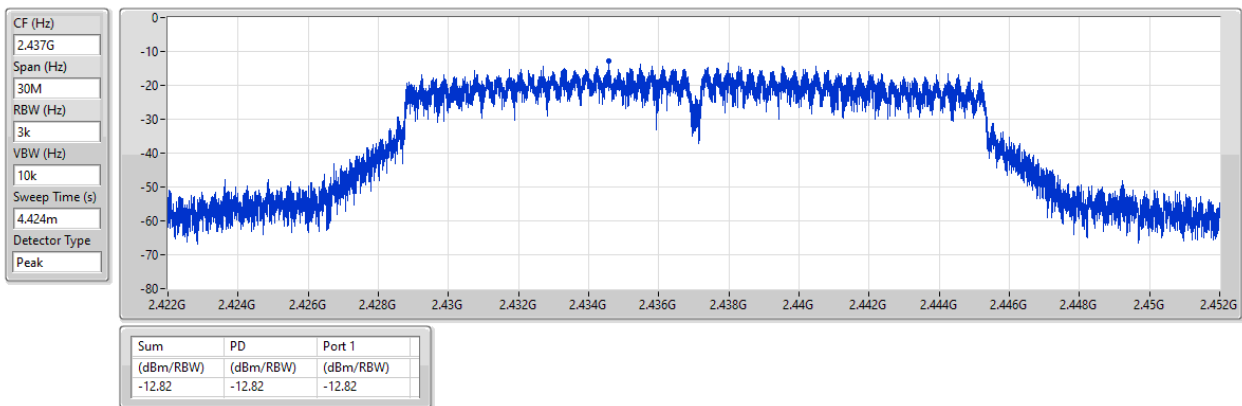


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX(Port1)

PSD

2437MHz

07/04/2025

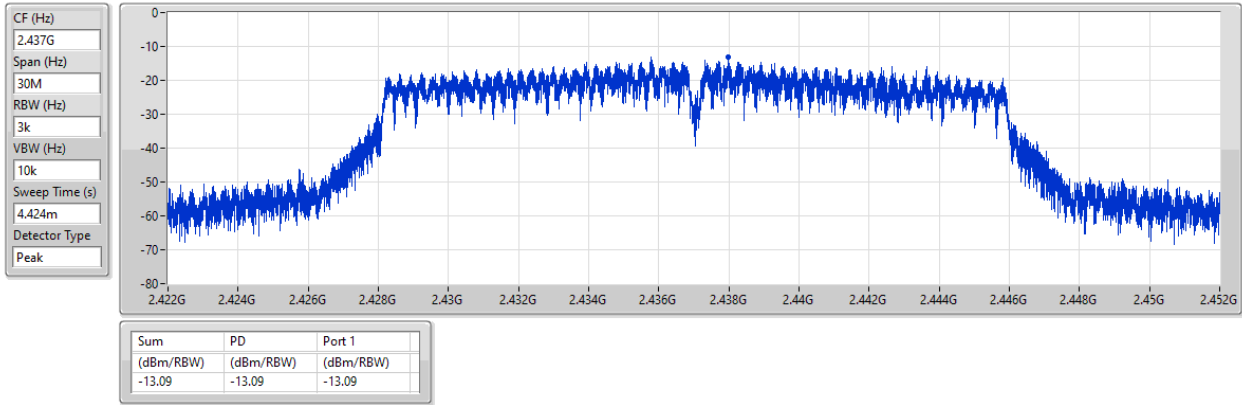


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

PSD

2437MHz

07/04/2025

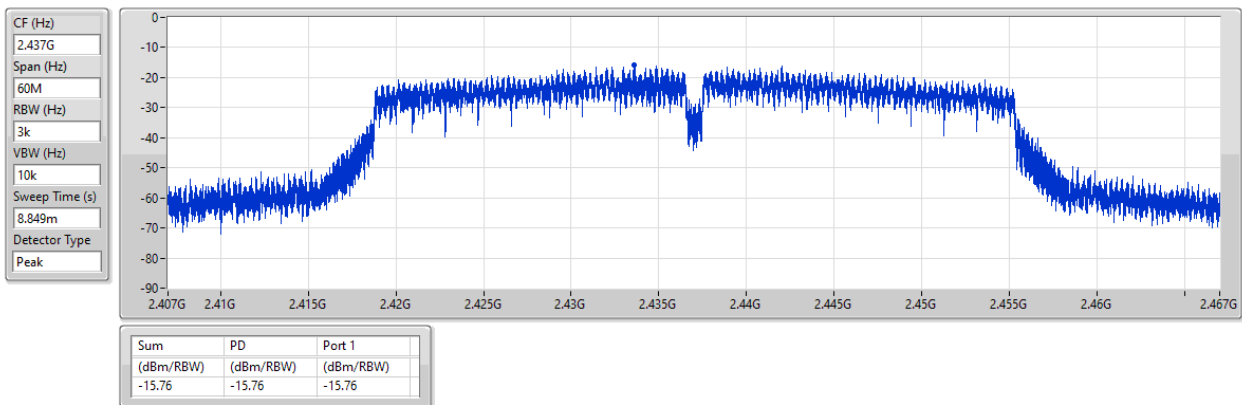


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

PSD

2437MHz

07/04/2025





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(Port1)	Pass	2.41152G	6.14	-23.86	2.13632G	-54.62	2.39704G	-36.63	2.4G	-39.93	2.50382G	-52.50	16.90846G	-41.53	1
802.11g_Nss1,(6Mbps)_1TX(Port1)	Pass	2.41069G	3.69	-26.31	2.12118G	-53.21	2.4G	-30.72	2.4G	-33.96	2.51886G	-51.82	23.1485G	-41.85	1
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	Pass	2.41069G	3.73	-26.27	2.30641G	-52.65	2.3992G	-33.51	2.4G	-35.21	2.50966G	-51.25	24.88481G	-41.99	1
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	Pass	2.43457G	0.89	-29.11	2.30397G	-54.06	2.3992G	-40.64	2.4G	-41.80	2.50238G	-52.35	16.83872G	-41.96	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(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41152G	6.14	-23.86	2.13632G	-54.62	2.39704G	-36.63	2.4G	-39.93	2.50382G	-52.50	16.90846G	-41.53	1
2437MHz	Pass	2.41152G	6.14	-23.86	2.13283G	-53.90	2.39336G	-50.71	2.4G	-52.31	2.50294G	-52.18	17.55466G	-42.81	1
2462MHz	Pass	2.41152G	6.14	-23.86	1.99419G	-54.00	2.4G	-53.16	2.4G	-53.14	2.5075G	-52.52	24.89324G	-41.62	1
802.11g_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41069G	3.69	-26.31	2.12118G	-53.21	2.4G	-30.72	2.4G	-33.96	2.51886G	-51.82	23.1485G	-41.85	1
2437MHz	Pass	2.41069G	3.69	-26.31	2.30525G	-52.79	2.39896G	-47.88	2.4G	-50.88	2.50846G	-50.66	16.73989G	-42.40	1
2462MHz	Pass	2.41069G	3.69	-26.31	2.1503G	-54.58	2.39336G	-49.42	2.4G	-51.41	2.51086G	-50.50	24.48304G	-41.97	1
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41069G	3.73	-26.27	2.30641G	-52.65	2.3992G	-33.51	2.4G	-35.21	2.50966G	-51.25	24.88481G	-41.99	1
2437MHz	Pass	2.41069G	3.73	-26.27	2.30525G	-52.78	2.3928G	-48.80	2.4G	-49.45	2.51694G	-50.91	23.29179G	-42.05	1
2462MHz	Pass	2.41069G	3.73	-26.27	2.30758G	-53.78	2.39952G	-49.85	2.4G	-51.44	2.5087G	-50.23	17.02084G	-42.02	1
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43457G	0.89	-29.11	2.30397G	-54.06	2.3992G	-40.64	2.4G	-41.80	2.50238G	-52.35	16.83872G	-41.96	1
2437MHz	Pass	2.43457G	0.89	-29.11	2.3097G	-53.18	2.39968G	-42.10	2.4G	-44.35	2.52206G	-49.87	23.24995G	-41.71	1
2452MHz	Pass	2.43457G	0.89	-29.11	2.10245G	-53.64	2.39504G	-51.48	2.4G	-52.42	2.50958G	-51.76	24.92428G	-41.15	1

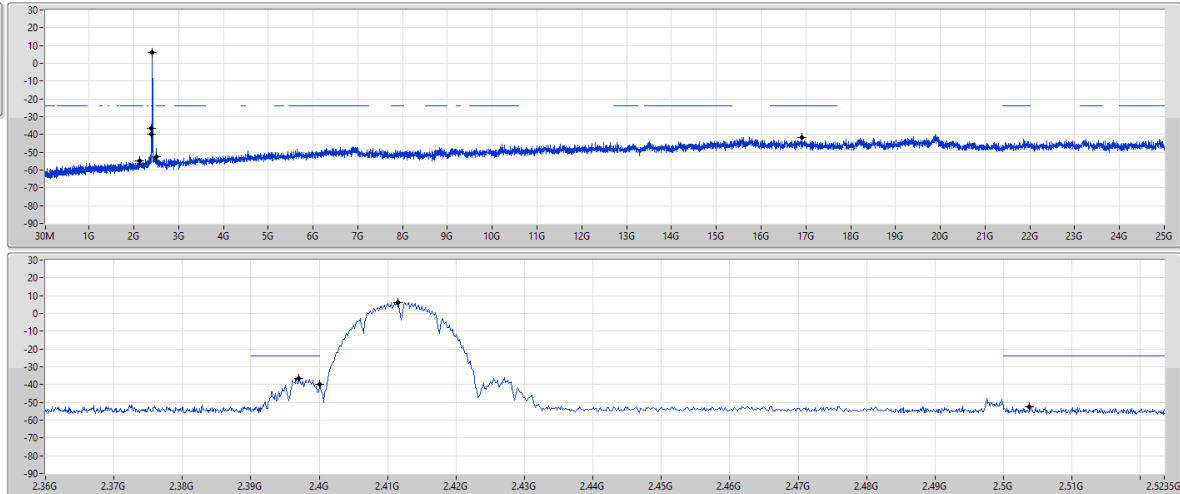
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX(Port1)

CSEndB

2412MHz

07/04/2025

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
2.41152G	6.14	-23.86	2.13632G	-54.62	2.39704G	-36.63	2.4G	-39.93	2.50382G	-52.50	16.90846G	-41.53	1

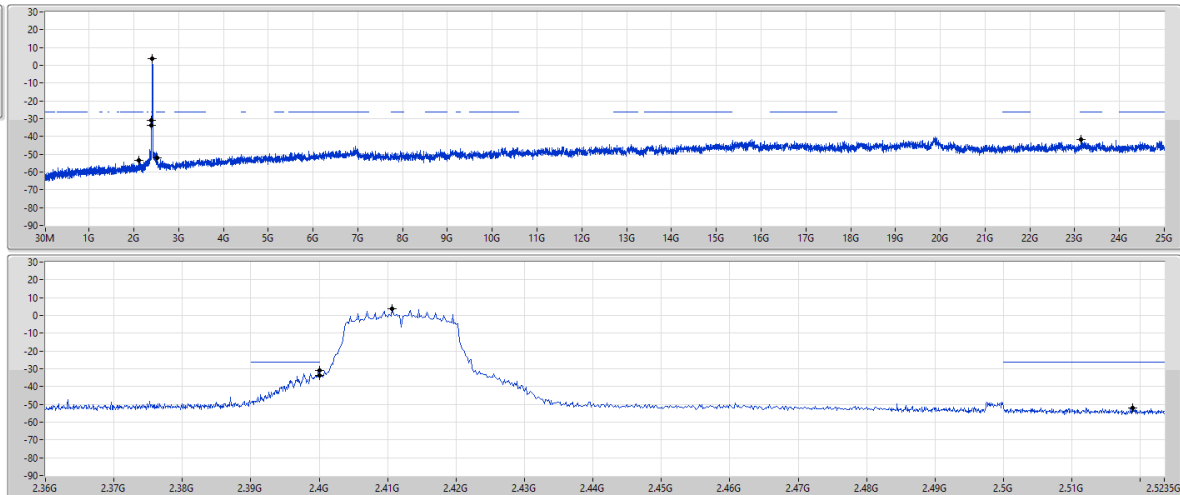
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX(Port1)

CSEndB

2412MHz

07/04/2025

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



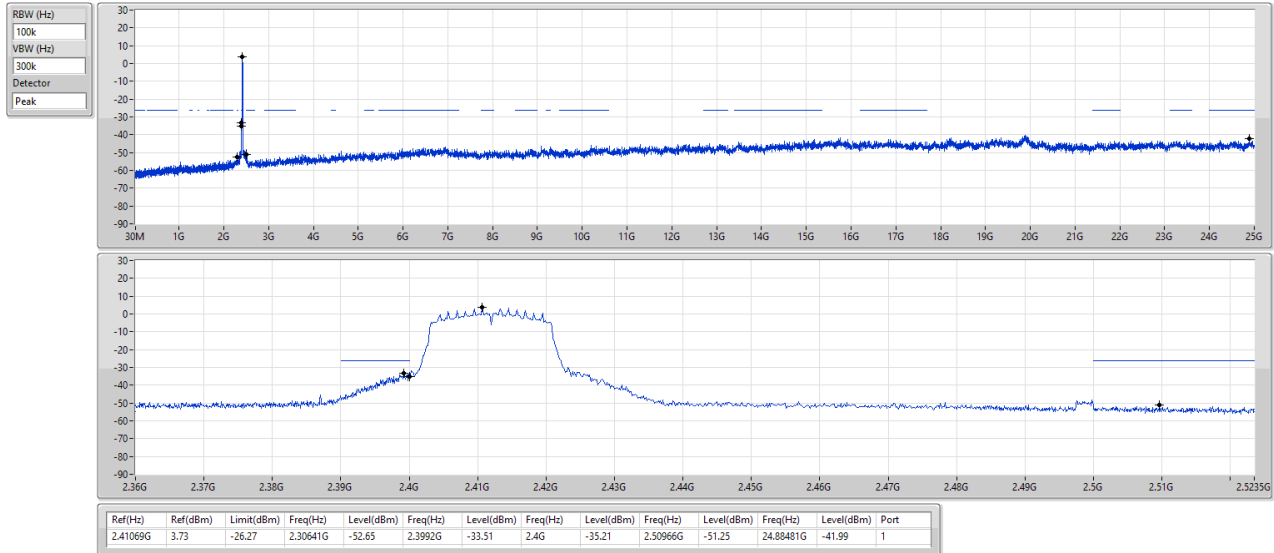
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41069G	3.69	-26.31	2.12118G	-53.21	2.4G	-30.72	2.4G	-33.96	2.51886G	-51.82	23.1485G	-41.85	1

2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

CSEndB

2412MHz

07/04/2025

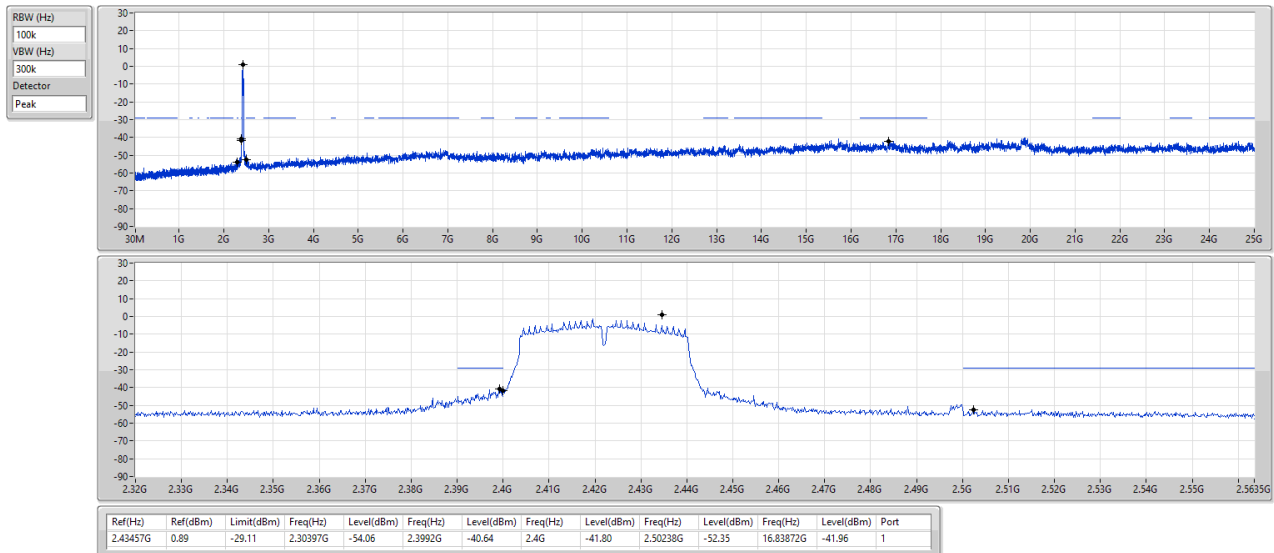


2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

CSEndB

2422MHz

07/04/2025





Summary

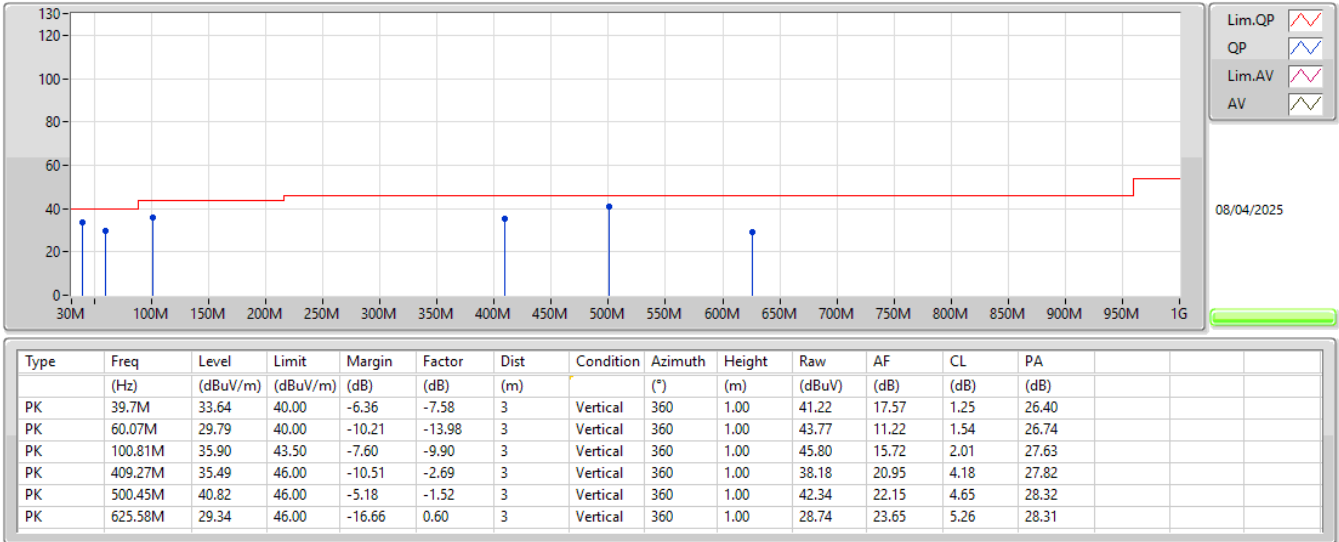
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	Pass	PK	416.06M	42.37	46.00	-3.63	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1.(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-	-
2437MHz_Adapter	Pass	PK	39.7M	33.64	40.00	-6.36	3	Vertical	360	1.00	-
2437MHz_Adapter	Pass	PK	60.07M	29.79	40.00	-10.21	3	Vertical	360	1.00	-
2437MHz_Adapter	Pass	PK	100.81M	35.90	43.50	-7.60	3	Vertical	360	1.00	-
2437MHz_Adapter	Pass	PK	409.27M	35.49	46.00	-10.51	3	Vertical	360	1.00	-
2437MHz_Adapter	Pass	PK	500.45M	40.82	46.00	-5.18	3	Vertical	360	1.00	-
2437MHz_Adapter	Pass	PK	625.58M	29.34	46.00	-16.66	3	Vertical	360	1.00	-
2437MHz_Adapter	Pass	PK	39.7M	27.69	40.00	-12.31	3	Horizontal	0	1.00	-
2437MHz_Adapter	Pass	PK	99.84M	32.17	43.50	-11.33	3	Horizontal	0	1.00	-
2437MHz_Adapter	Pass	PK	250.19M	32.75	46.00	-13.25	3	Horizontal	0	1.00	-
2437MHz_Adapter	Pass	PK	416.06M	42.37	46.00	-3.63	3	Horizontal	0	1.00	-
2437MHz_Adapter	Pass	PK	750.71M	36.50	46.00	-9.50	3	Horizontal	0	1.00	-
2437MHz_Adapter	Pass	QP	427.02M	38.55	46.00	-7.45	3	Horizontal	162	1.95	-

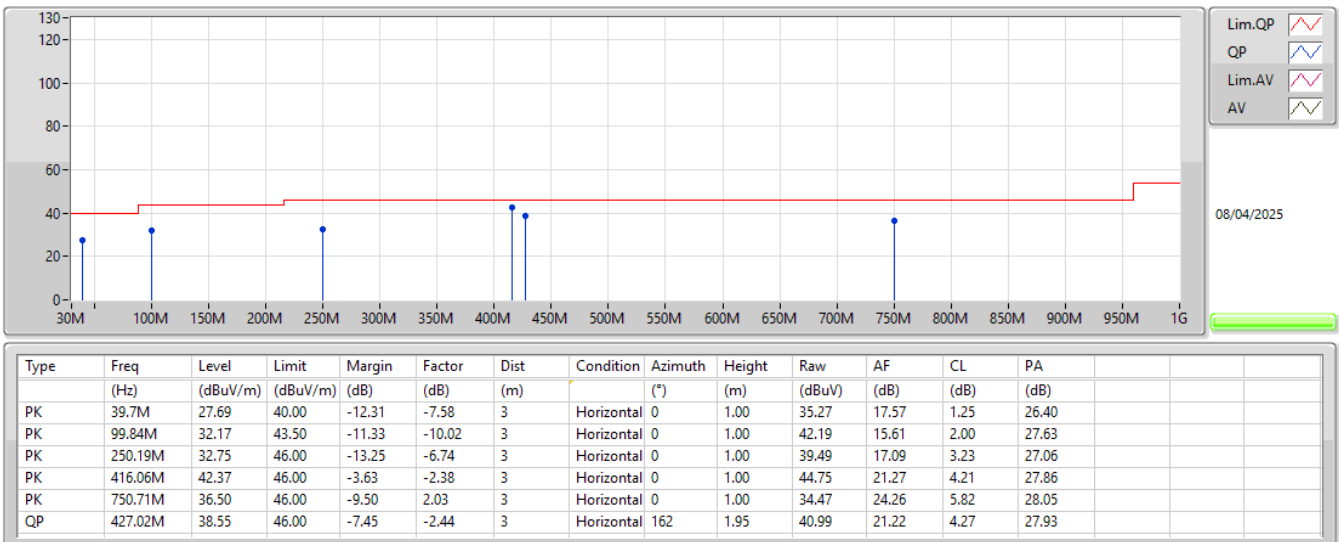
2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

2437MHz_Adapter



2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

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(Port1)	Pass	AV	2.3858G	48.77	54.00	-5.23	3	Horizontal	229	1.56
802.11g_Nss1,(6Mbps)_1TX(Port1)	Pass	AV	2.4835G	49.85	54.00	-4.15	3	Horizontal	225	1.50
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	Pass	AV	2.4835G	50.28	54.00	-3.72	3	Horizontal	225	1.50
802.11n HT40_Nss1,(MCS0)_1TX(Port1)	Pass	AV	2.3898G	50.89	54.00	-3.11	3	Horizontal	228	1.49

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(Port1)	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3878G	45.60	54.00	-8.40	3	Vertical	172	1.83
2412MHz	Pass	AV	2.4112G	101.26	Inf	-Inf	3	Vertical	172	1.83
2412MHz	Pass	PK	2.3646G	57.11	74.00	-16.89	3	Vertical	172	1.83
2412MHz	Pass	PK	2.411G	105.15	Inf	-Inf	3	Vertical	172	1.83
2412MHz	Pass	AV	2.3858G	48.77	54.00	-5.23	3	Horizontal	229	1.56
2412MHz	Pass	AV	2.4112G	103.65	Inf	-Inf	3	Horizontal	229	1.56
2412MHz	Pass	PK	2.3858G	57.42	74.00	-16.58	3	Horizontal	229	1.56
2412MHz	Pass	PK	2.4112G	107.41	Inf	-Inf	3	Horizontal	229	1.56
2412MHz	Pass	AV	4.82406G	36.76	54.00	-17.24	3	Vertical	181	1.50
2412MHz	Pass	PK	4.82448G	44.75	74.00	-29.25	3	Vertical	181	1.50
2412MHz	Pass	AV	4.82404G	37.85	54.00	-16.15	3	Horizontal	191	1.00
2412MHz	Pass	PK	4.82372G	45.36	74.00	-28.64	3	Horizontal	191	1.00
2437MHz	Pass	AV	2.3486G	44.29	54.00	-9.71	3	Vertical	168	1.74
2437MHz	Pass	AV	2.4362G	101.65	Inf	-Inf	3	Vertical	168	1.74
2437MHz	Pass	AV	2.4986G	45.35	54.00	-8.65	3	Vertical	168	1.74
2437MHz	Pass	PK	2.3722G	56.03	74.00	-17.97	3	Vertical	168	1.74
2437MHz	Pass	PK	2.4382G	105.71	Inf	-Inf	3	Vertical	168	1.74
2437MHz	Pass	PK	2.4874G	56.62	74.00	-17.38	3	Vertical	168	1.74
2437MHz	Pass	AV	2.349G	44.36	54.00	-9.64	3	Horizontal	227	1.31
2437MHz	Pass	AV	2.4362G	104.74	Inf	-Inf	3	Horizontal	227	1.31
2437MHz	Pass	AV	2.4982G	45.79	54.00	-8.21	3	Horizontal	227	1.31
2437MHz	Pass	PK	2.373G	55.52	74.00	-18.48	3	Horizontal	227	1.31
2437MHz	Pass	PK	2.4362G	108.61	Inf	-Inf	3	Horizontal	227	1.31
2437MHz	Pass	PK	2.485G	56.34	74.00	-17.66	3	Horizontal	227	1.31
2437MHz	Pass	AV	4.87404G	40.45	54.00	-13.55	3	Vertical	181	1.78
2437MHz	Pass	PK	4.87406G	52.36	74.00	-21.64	3	Vertical	181	1.78
2437MHz	Pass	AV	4.87386G	36.26	54.00	-17.74	3	Horizontal	190	1.41
2437MHz	Pass	PK	4.87442G	47.41	74.00	-26.59	3	Horizontal	190	1.41
2462MHz	Pass	AV	2.4612G	101.90	Inf	-Inf	3	Vertical	171	1.37
2462MHz	Pass	AV	2.4984G	45.69	54.00	-8.31	3	Vertical	171	1.37
2462MHz	Pass	PK	2.4632G	105.86	Inf	-Inf	3	Vertical	171	1.37
2462MHz	Pass	PK	2.4844G	56.73	74.00	-17.27	3	Vertical	171	1.37
2462MHz	Pass	AV	2.4612G	104.59	Inf	-Inf	3	Horizontal	226	1.50
2462MHz	Pass	AV	2.4986G	46.20	54.00	-7.80	3	Horizontal	226	1.50
2462MHz	Pass	PK	2.463G	108.54	Inf	-Inf	3	Horizontal	226	1.50
2462MHz	Pass	PK	2.4996G	56.88	74.00	-17.12	3	Horizontal	226	1.50
2462MHz	Pass	AV	4.92406G	38.57	54.00	-15.43	3	Vertical	176	1.50
2462MHz	Pass	PK	4.92408G	44.52	74.00	-29.48	3	Vertical	176	1.50
2462MHz	Pass	AV	4.92408G	37.91	54.00	-16.09	3	Horizontal	191	1.50
2462MHz	Pass	PK	4.92444G	49.32	74.00	-24.68	3	Horizontal	191	1.50
802.11g_Nss1,(6Mbps)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	46.44	54.00	-7.56	3	Vertical	166	1.62
2412MHz	Pass	AV	2.411G	94.29	Inf	-Inf	3	Vertical	166	1.62
2412MHz	Pass	PK	2.3724G	57.35	74.00	-16.65	3	Vertical	166	1.62
2412MHz	Pass	PK	2.4074G	103.44	Inf	-Inf	3	Vertical	166	1.62
2412MHz	Pass	AV	2.39G	48.47	54.00	-5.53	3	Horizontal	227	1.56
2412MHz	Pass	AV	2.411G	97.31	Inf	-Inf	3	Horizontal	227	1.56
2412MHz	Pass	PK	2.3866G	58.25	74.00	-15.75	3	Horizontal	227	1.56
2412MHz	Pass	PK	2.4106G	106.17	Inf	-Inf	3	Horizontal	227	1.56
2412MHz	Pass	AV	4.8154G	26.86	54.00	-27.14	3	Vertical	271	1.18
2412MHz	Pass	PK	4.81472G	39.29	74.00	-34.71	3	Vertical	271	1.18
2412MHz	Pass	AV	4.81776G	27.35	54.00	-26.65	3	Horizontal	187	1.00
2412MHz	Pass	PK	4.81936G	40.26	74.00	-33.74	3	Horizontal	187	1.00
2437MHz	Pass	AV	2.3898G	45.26	54.00	-8.74	3	Vertical	170	1.72
2437MHz	Pass	AV	2.4362G	94.73	Inf	-Inf	3	Vertical	170	1.72
2437MHz	Pass	AV	2.4986G	46.44	54.00	-7.56	3	Vertical	170	1.72
2437MHz	Pass	PK	2.3578G	56.28	74.00	-17.72	3	Vertical	170	1.72
2437MHz	Pass	PK	2.4378G	103.55	Inf	-Inf	3	Vertical	170	1.72
2437MHz	Pass	PK	2.4918G	57.28	74.00	-16.72	3	Vertical	170	1.72
2437MHz	Pass	AV	2.389G	46.06	54.00	-7.94	3	Horizontal	227	1.31

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	AV	2.4382G	97.55	Inf	-Inf	3	Horizontal	227	1.31
2437MHz	Pass	AV	2.499G	47.04	54.00	-6.96	3	Horizontal	227	1.31
2437MHz	Pass	PK	2.3662G	57.03	74.00	-16.97	3	Horizontal	227	1.31
2437MHz	Pass	PK	2.4322G	106.97	Inf	-Inf	3	Horizontal	227	1.31
2437MHz	Pass	PK	2.4998G	57.89	74.00	-16.11	3	Horizontal	227	1.31
2437MHz	Pass	AV	4.87596G	28.46	54.00	-25.54	3	Vertical	185	1.75
2437MHz	Pass	PK	4.87104G	40.46	74.00	-33.54	3	Vertical	185	1.75
2437MHz	Pass	AV	4.87604G	27.55	54.00	-26.45	3	Horizontal	187	1.49
2437MHz	Pass	PK	4.87872G	40.19	74.00	-33.81	3	Horizontal	187	1.49
2462MHz	Pass	AV	2.463G	91.43	Inf	-Inf	3	Vertical	40	1.04
2462MHz	Pass	AV	2.4835G	46.32	54.00	-7.68	3	Vertical	40	1.04
2462MHz	Pass	PK	2.4638G	100.23	Inf	-Inf	3	Vertical	40	1.04
2462MHz	Pass	PK	2.4836G	60.47	74.00	-13.53	3	Vertical	40	1.04
2462MHz	Pass	AV	2.463G	98.09	Inf	-Inf	3	Horizontal	225	1.50
2462MHz	Pass	AV	2.4835G	49.85	54.00	-4.15	3	Horizontal	225	1.50
2462MHz	Pass	PK	2.4634G	107.74	Inf	-Inf	3	Horizontal	225	1.50
2462MHz	Pass	PK	2.4836G	61.99	74.00	-12.01	3	Horizontal	225	1.50
2462MHz	Pass	AV	4.92628G	27.54	54.00	-26.46	3	Vertical	149	1.50
2462MHz	Pass	PK	4.93296G	39.68	74.00	-34.32	3	Vertical	149	1.50
2462MHz	Pass	AV	4.926G	27.38	54.00	-26.62	3	Horizontal	344	1.00
2462MHz	Pass	PK	4.92176G	39.91	74.00	-34.09	3	Horizontal	344	1.00
802.11n HT20_Nss1,(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.15	54.00	-6.85	3	Vertical	168	1.78
2412MHz	Pass	AV	2.4106G	93.65	Inf	-Inf	3	Vertical	168	1.78
2412MHz	Pass	PK	2.3896G	59.39	74.00	-14.61	3	Vertical	168	1.78
2412MHz	Pass	PK	2.4108G	102.94	Inf	-Inf	3	Vertical	168	1.78
2412MHz	Pass	AV	2.39G	49.69	54.00	-4.31	3	Horizontal	226	1.56
2412MHz	Pass	AV	2.4106G	96.87	Inf	-Inf	3	Horizontal	226	1.56
2412MHz	Pass	PK	2.3892G	62.45	74.00	-11.55	3	Horizontal	226	1.56
2412MHz	Pass	PK	2.4114G	106.05	Inf	-Inf	3	Horizontal	226	1.56
2412MHz	Pass	AV	4.82056G	27.00	54.00	-27.00	3	Vertical	178	1.96
2412MHz	Pass	PK	4.82724G	40.67	74.00	-33.33	3	Vertical	178	1.96
2412MHz	Pass	AV	4.81484G	26.82	54.00	-27.18	3	Horizontal	109	1.50
2412MHz	Pass	PK	4.82104G	40.19	74.00	-33.81	3	Horizontal	109	1.50
2437MHz	Pass	AV	2.381G	45.29	54.00	-8.71	3	Vertical	170	1.72
2437MHz	Pass	AV	2.4386G	93.87	Inf	-Inf	3	Vertical	170	1.72
2437MHz	Pass	AV	2.4994G	46.21	54.00	-7.79	3	Vertical	170	1.72
2437MHz	Pass	PK	2.3538G	56.75	74.00	-17.25	3	Vertical	170	1.72
2437MHz	Pass	PK	2.4386G	103.31	Inf	-Inf	3	Vertical	170	1.72
2437MHz	Pass	PK	2.4882G	56.79	74.00	-17.21	3	Vertical	170	1.72
2437MHz	Pass	AV	2.3858G	45.92	54.00	-8.08	3	Horizontal	225	1.33
2437MHz	Pass	AV	2.4354G	97.47	Inf	-Inf	3	Horizontal	225	1.33
2437MHz	Pass	AV	2.4982G	47.27	54.00	-6.73	3	Horizontal	225	1.33
2437MHz	Pass	PK	2.3638G	56.68	74.00	-17.32	3	Horizontal	225	1.33
2437MHz	Pass	PK	2.4362G	107.09	Inf	-Inf	3	Horizontal	225	1.33
2437MHz	Pass	PK	2.499G	58.08	74.00	-15.92	3	Horizontal	225	1.33
2437MHz	Pass	AV	4.87824G	28.31	54.00	-25.69	3	Vertical	181	1.50
2437MHz	Pass	PK	4.87628G	40.63	74.00	-33.37	3	Vertical	181	1.50
2437MHz	Pass	AV	4.87652G	27.71	54.00	-26.29	3	Horizontal	333	1.50
2437MHz	Pass	PK	4.88176G	41.06	74.00	-32.94	3	Horizontal	333	1.50
2457MHz	Pass	AV	2.4556G	93.79	Inf	-Inf	3	Vertical	169	1.37
2457MHz	Pass	AV	2.4988G	46.46	54.00	-7.54	3	Vertical	169	1.37
2457MHz	Pass	PK	2.4564G	103.26	Inf	-Inf	3	Vertical	169	1.37
2457MHz	Pass	PK	2.4854G	57.54	74.00	-16.46	3	Vertical	169	1.37
2457MHz	Pass	AV	2.459G	96.34	Inf	-Inf	3	Horizontal	228	1.50
2457MHz	Pass	AV	2.4838G	47.34	54.00	-6.66	3	Horizontal	228	1.50
2457MHz	Pass	PK	2.4582G	105.72	Inf	-Inf	3	Horizontal	228	1.50
2457MHz	Pass	PK	2.4878G	59.21	74.00	-14.79	3	Horizontal	228	1.50
2462MHz	Pass	AV	2.4626G	93.52	Inf	-Inf	3	Vertical	168	1.35
2462MHz	Pass	AV	2.4835G	47.81	54.00	-6.19	3	Vertical	168	1.35
2462MHz	Pass	PK	2.4612G	103.03	Inf	-Inf	3	Vertical	168	1.35
2462MHz	Pass	PK	2.484G	60.00	74.00	-14.00	3	Vertical	168	1.35

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2462MHz	Pass	AV	2.464G	96.92	Inf	-Inf	3	Horizontal	225	1.50
2462MHz	Pass	AV	2.4835G	50.28	54.00	-3.72	3	Horizontal	225	1.50
2462MHz	Pass	PK	2.4612G	105.90	Inf	-Inf	3	Horizontal	225	1.50
2462MHz	Pass	PK	2.4836G	64.34	74.00	-9.66	3	Horizontal	225	1.50
2462MHz	Pass	AV	4.92336G	27.65	54.00	-26.35	3	Vertical	182	1.67
2462MHz	Pass	PK	4.92976G	40.74	74.00	-33.26	3	Vertical	182	1.67
2462MHz	Pass	AV	4.92696G	27.40	54.00	-26.60	3	Horizontal	316	1.03
2462MHz	Pass	PK	4.9266G	40.61	74.00	-33.39	3	Horizontal	316	1.03
802.11n HT40_Nss1(MCS0)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	45.85	54.00	-8.15	3	Vertical	243	1.50
2422MHz	Pass	AV	2.4236G	85.17	Inf	-Inf	3	Vertical	243	1.50
2422MHz	Pass	AV	2.4944G	45.96	54.00	-8.04	3	Vertical	243	1.50
2422MHz	Pass	PK	2.3296G	56.38	74.00	-17.62	3	Vertical	243	1.50
2422MHz	Pass	PK	2.424G	93.49	Inf	-Inf	3	Vertical	243	1.50
2422MHz	Pass	PK	2.498G	58.06	74.00	-17.94	3	Vertical	243	1.50
2422MHz	Pass	AV	2.39G	50.20	54.00	-3.80	3	Horizontal	229	1.49
2422MHz	Pass	AV	2.4208G	92.85	Inf	-Inf	3	Horizontal	229	1.49
2422MHz	Pass	AV	2.4984G	46.66	54.00	-7.34	3	Horizontal	229	1.49
2422MHz	Pass	PK	2.3896G	62.08	74.00	-11.92	3	Horizontal	229	1.49
2422MHz	Pass	PK	2.4204G	101.29	Inf	-Inf	3	Horizontal	229	1.49
2422MHz	Pass	PK	2.498G	57.08	74.00	-16.92	3	Horizontal	229	1.49
2422MHz	Pass	AV	4.84556G	27.64	54.00	-26.36	3	Vertical	155	1.50
2422MHz	Pass	PK	4.83492G	39.41	74.00	-34.59	3	Vertical	155	1.50
2422MHz	Pass	AV	4.84804G	27.56	54.00	-26.44	3	Horizontal	343	1.50
2422MHz	Pass	PK	4.84512G	39.17	74.00	-34.83	3	Horizontal	343	1.50
2427MHz	Pass	AV	2.3898G	48.24	54.00	-5.76	3	Vertical	168	1.72
2427MHz	Pass	AV	2.4286G	91.80	Inf	-Inf	3	Vertical	168	1.72
2427MHz	Pass	AV	2.499G	46.35	54.00	-7.65	3	Vertical	168	1.72
2427MHz	Pass	PK	2.3886G	60.37	74.00	-13.63	3	Vertical	168	1.72
2427MHz	Pass	PK	2.4302G	100.14	Inf	-Inf	3	Vertical	168	1.72
2427MHz	Pass	PK	2.4906G	56.85	74.00	-17.15	3	Vertical	168	1.72
2427MHz	Pass	AV	2.3898G	50.89	54.00	-3.11	3	Horizontal	228	1.49
2427MHz	Pass	AV	2.4286G	94.55	Inf	-Inf	3	Horizontal	228	1.49
2427MHz	Pass	AV	2.4986G	46.63	54.00	-7.37	3	Horizontal	228	1.49
2427MHz	Pass	PK	2.3894G	63.77	74.00	-10.23	3	Horizontal	228	1.49
2427MHz	Pass	PK	2.425G	102.83	Inf	-Inf	3	Horizontal	228	1.49
2427MHz	Pass	PK	2.4998G	57.29	74.00	-16.71	3	Horizontal	228	1.49
2437MHz	Pass	AV	2.3786G	45.98	54.00	-8.02	3	Vertical	169	1.70
2437MHz	Pass	AV	2.4386G	92.18	Inf	-Inf	3	Vertical	169	1.70
2437MHz	Pass	AV	2.4846G	46.77	54.00	-7.23	3	Vertical	169	1.70
2437MHz	Pass	PK	2.3886G	56.62	74.00	-17.38	3	Vertical	169	1.70
2437MHz	Pass	PK	2.435G	100.32	Inf	-Inf	3	Vertical	169	1.70
2437MHz	Pass	PK	2.4854G	57.47	74.00	-16.53	3	Vertical	169	1.70
2437MHz	Pass	AV	2.3898G	46.48	54.00	-7.52	3	Horizontal	227	1.50
2437MHz	Pass	AV	2.4358G	94.23	Inf	-Inf	3	Horizontal	227	1.50
2437MHz	Pass	AV	2.4835G	47.35	54.00	-6.65	3	Horizontal	227	1.50
2437MHz	Pass	PK	2.389G	57.23	74.00	-16.77	3	Horizontal	227	1.50
2437MHz	Pass	PK	2.4354G	102.80	Inf	-Inf	3	Horizontal	227	1.50
2437MHz	Pass	PK	2.4842G	57.14	74.00	-16.86	3	Horizontal	227	1.50
2437MHz	Pass	AV	4.8804G	28.04	54.00	-25.96	3	Vertical	71	1.50
2437MHz	Pass	PK	4.86632G	40.02	74.00	-33.98	3	Vertical	71	1.50
2437MHz	Pass	AV	4.8808G	27.89	54.00	-26.11	3	Horizontal	310	1.50
2437MHz	Pass	PK	4.8806G	40.67	74.00	-33.33	3	Horizontal	310	1.50
2447MHz	Pass	AV	2.387G	45.35	54.00	-8.65	3	Vertical	169	1.49
2447MHz	Pass	AV	2.4486G	91.79	Inf	-Inf	3	Vertical	169	1.49
2447MHz	Pass	AV	2.4835G	49.25	54.00	-4.75	3	Vertical	169	1.49
2447MHz	Pass	PK	2.3678G	55.45	74.00	-18.55	3	Vertical	169	1.49
2447MHz	Pass	PK	2.4502G	100.02	Inf	-Inf	3	Vertical	169	1.49
2447MHz	Pass	PK	2.4835G	62.63	74.00	-11.37	3	Vertical	169	1.49
2447MHz	Pass	AV	2.3838G	45.58	54.00	-8.42	3	Horizontal	224	1.31
2447MHz	Pass	AV	2.4486G	94.30	Inf	-Inf	3	Horizontal	224	1.31
2447MHz	Pass	AV	2.4835G	50.52	54.00	-3.48	3	Horizontal	224	1.31



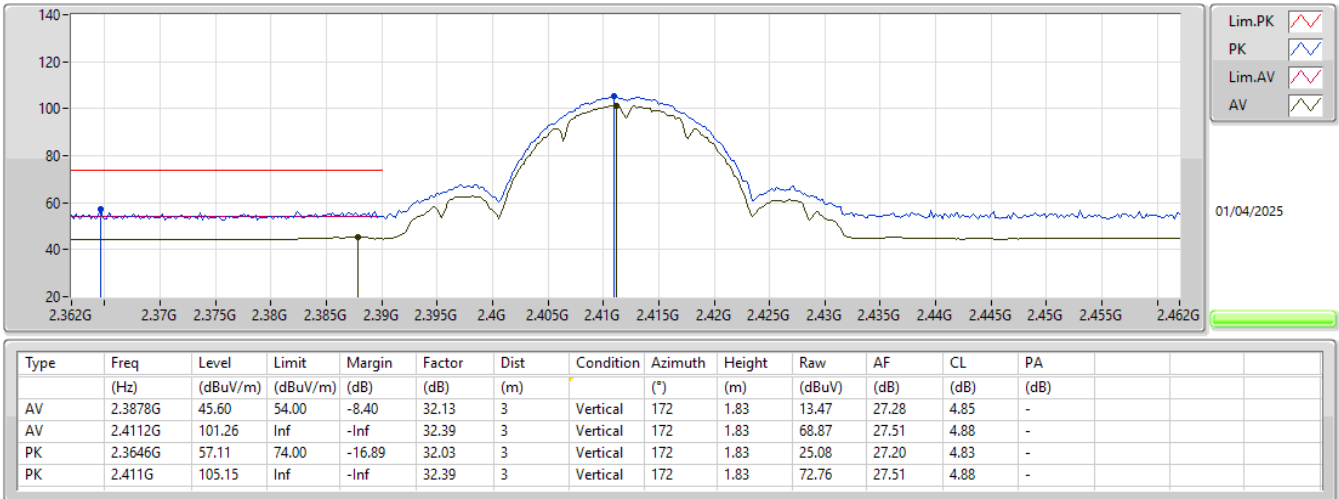
RSE TX above 1GHz

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2447MHz	Pass	PK	2.3502G	56.60	74.00	-17.40	3	Horizontal	224	1.31
2447MHz	Pass	PK	2.4502G	102.72	Inf	-Inf	3	Horizontal	224	1.31
2447MHz	Pass	PK	2.4835G	64.11	74.00	-9.89	3	Horizontal	224	1.31
2452MHz	Pass	AV	2.3888G	45.25	54.00	-8.75	3	Vertical	168	1.50
2452MHz	Pass	AV	2.4508G	90.60	Inf	-Inf	3	Vertical	168	1.50
2452MHz	Pass	AV	2.4835G	49.46	54.00	-4.54	3	Vertical	168	1.50
2452MHz	Pass	PK	2.3788G	55.91	74.00	-18.09	3	Vertical	168	1.50
2452MHz	Pass	PK	2.4496G	98.63	Inf	-Inf	3	Vertical	168	1.50
2452MHz	Pass	PK	2.4844G	61.54	74.00	-12.46	3	Vertical	168	1.50
2452MHz	Pass	AV	2.3628G	45.22	54.00	-8.78	3	Horizontal	221	2.06
2452MHz	Pass	AV	2.4536G	93.73	Inf	-Inf	3	Horizontal	221	2.06
2452MHz	Pass	AV	2.484G	50.87	54.00	-3.13	3	Horizontal	221	2.06
2452MHz	Pass	PK	2.3892G	55.72	74.00	-18.28	3	Horizontal	221	2.06
2452MHz	Pass	PK	2.45G	102.15	Inf	-Inf	3	Horizontal	221	2.06
2452MHz	Pass	PK	2.4852G	66.37	74.00	-7.63	3	Horizontal	221	2.06
2452MHz	Pass	AV	4.8958G	27.77	54.00	-26.23	3	Vertical	289	1.50
2452MHz	Pass	PK	4.89492G	40.31	74.00	-33.69	3	Vertical	289	1.50
2452MHz	Pass	AV	4.90348G	27.70	54.00	-26.30	3	Horizontal	30	1.50
2452MHz	Pass	PK	4.89688G	39.56	74.00	-34.44	3	Horizontal	30	1.50

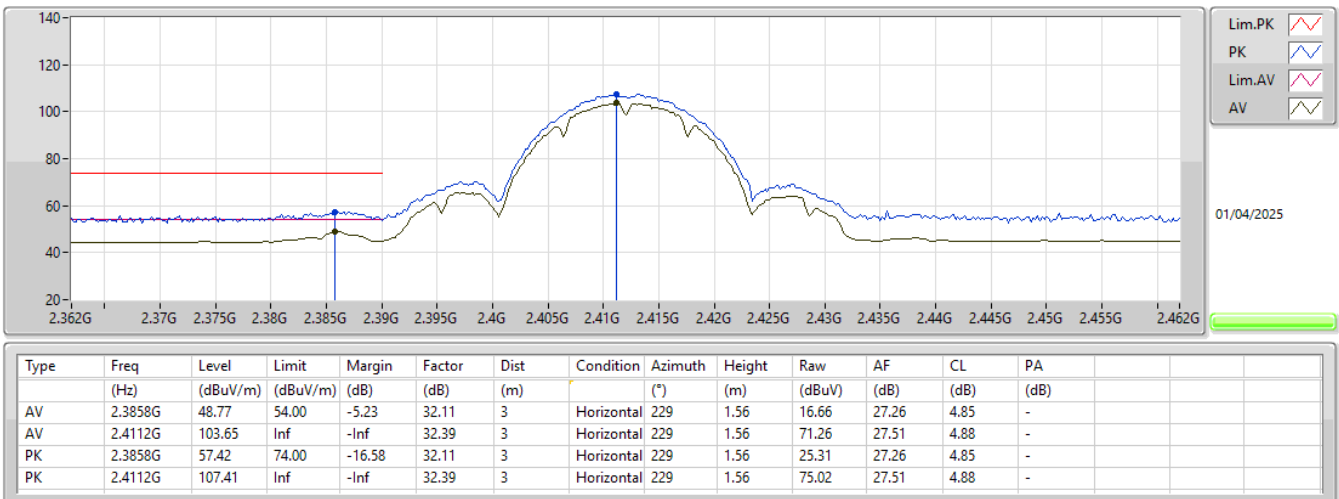
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX



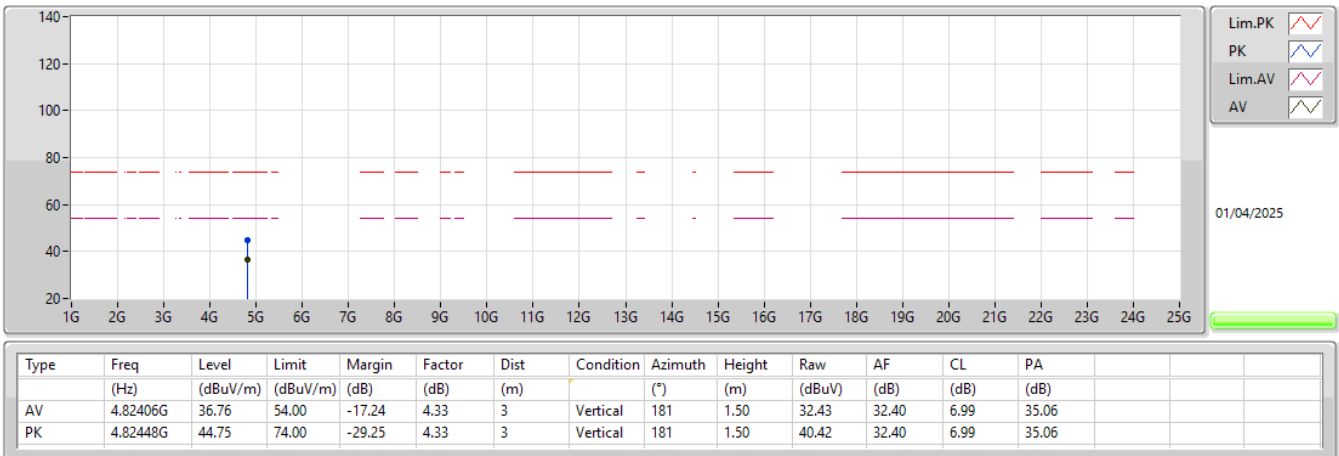
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX



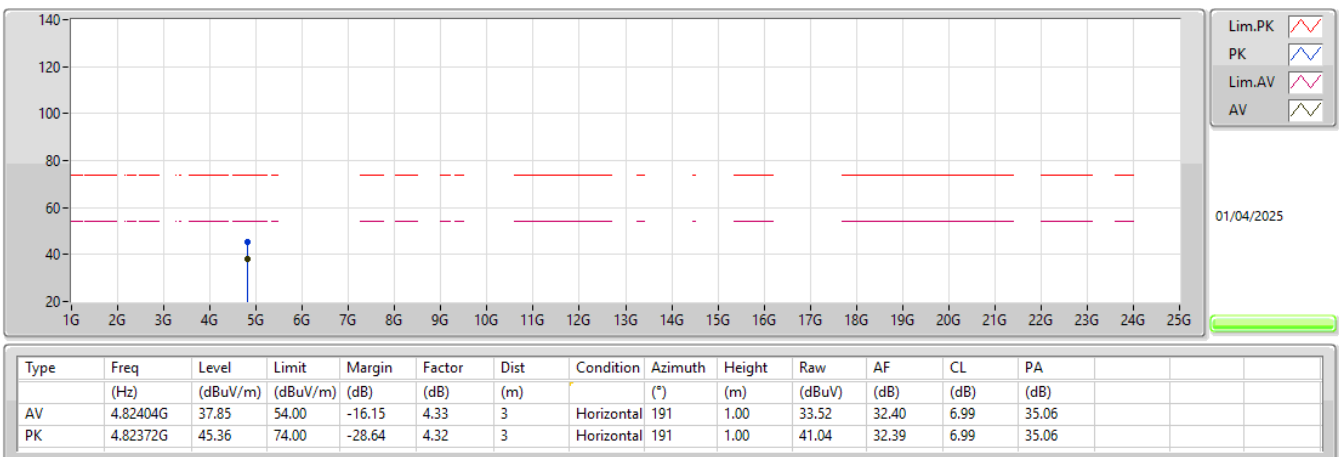
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2412MHz_TX



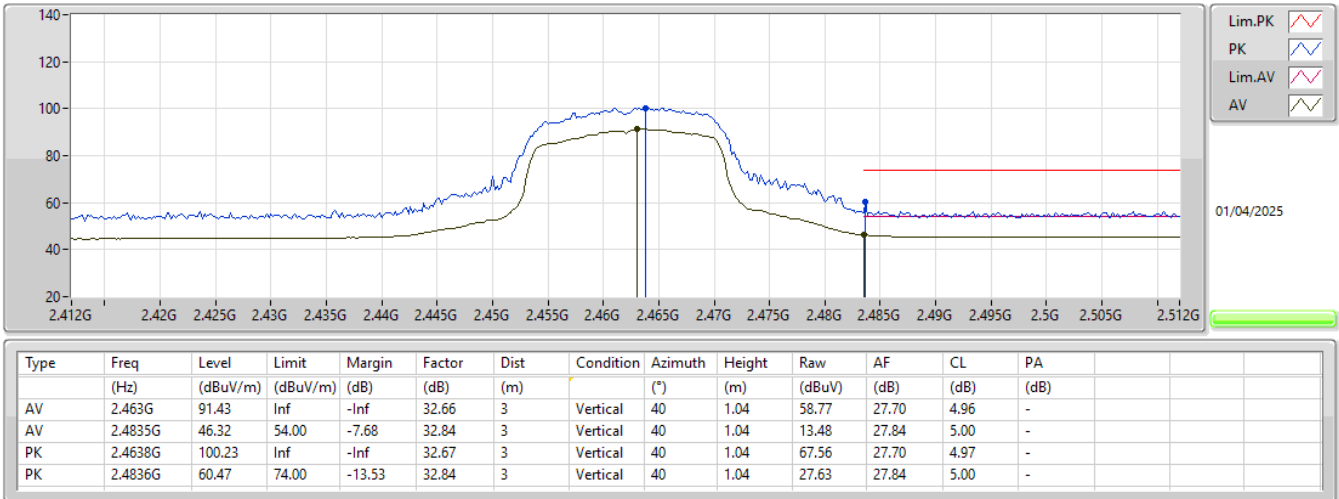
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX(Port1)

2412MHz_TX



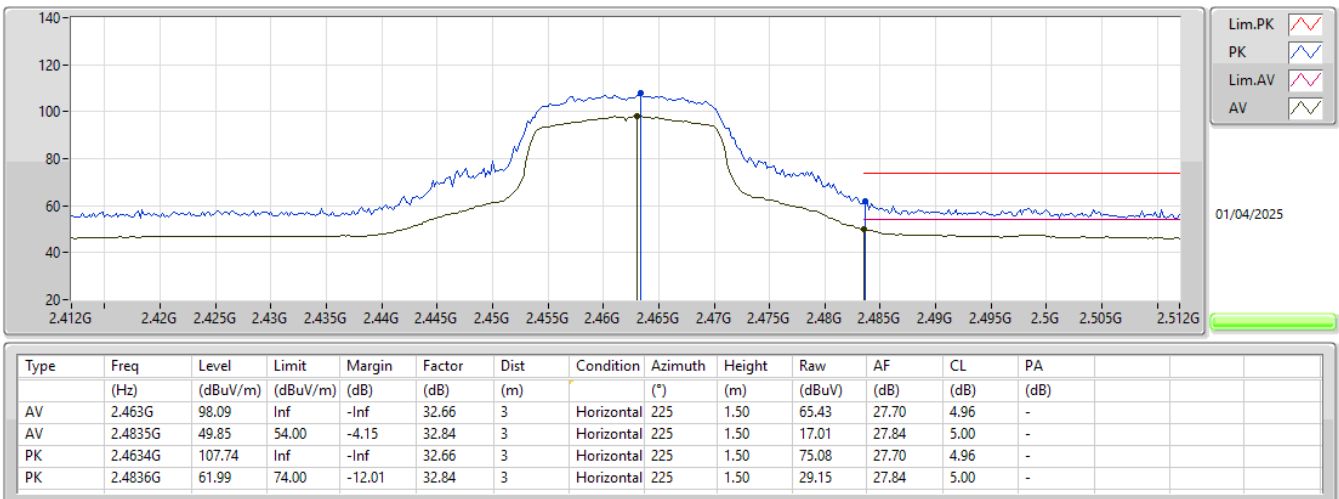
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX(Port1)

2462MHz_TX



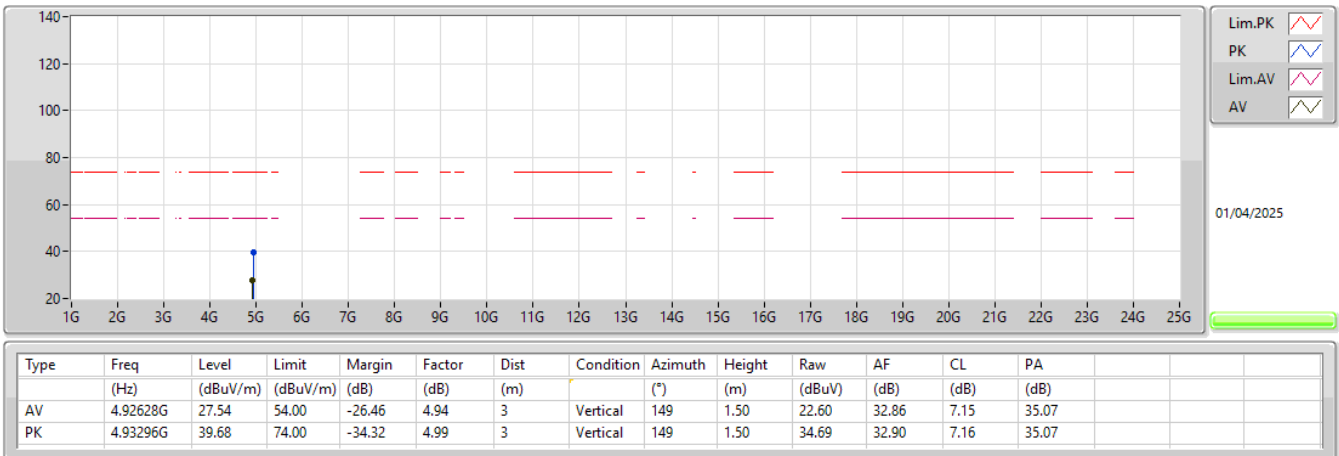
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2462MHz_TX



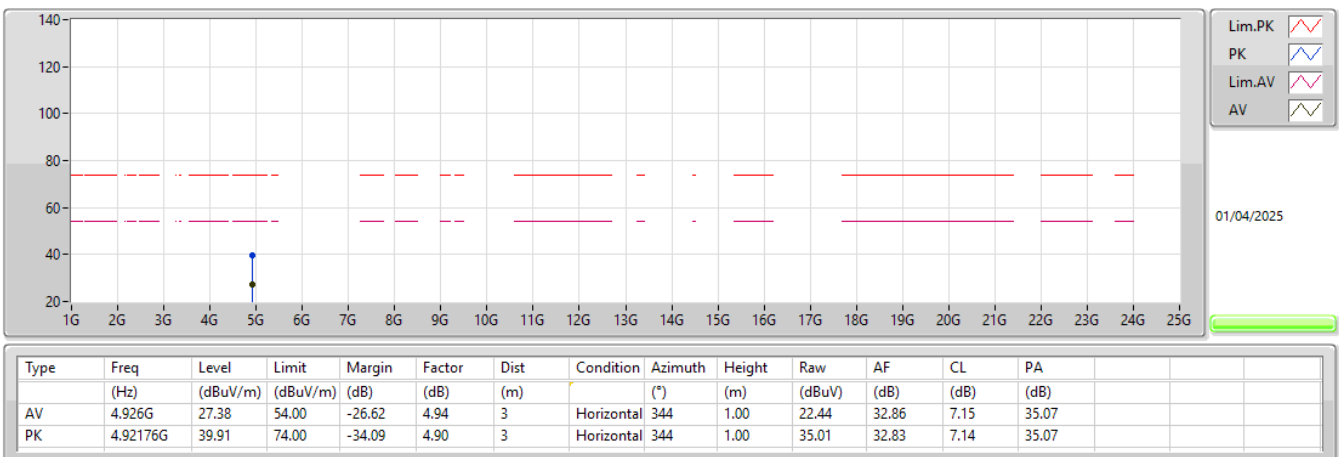
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX(Port1)

2462MHz_TX



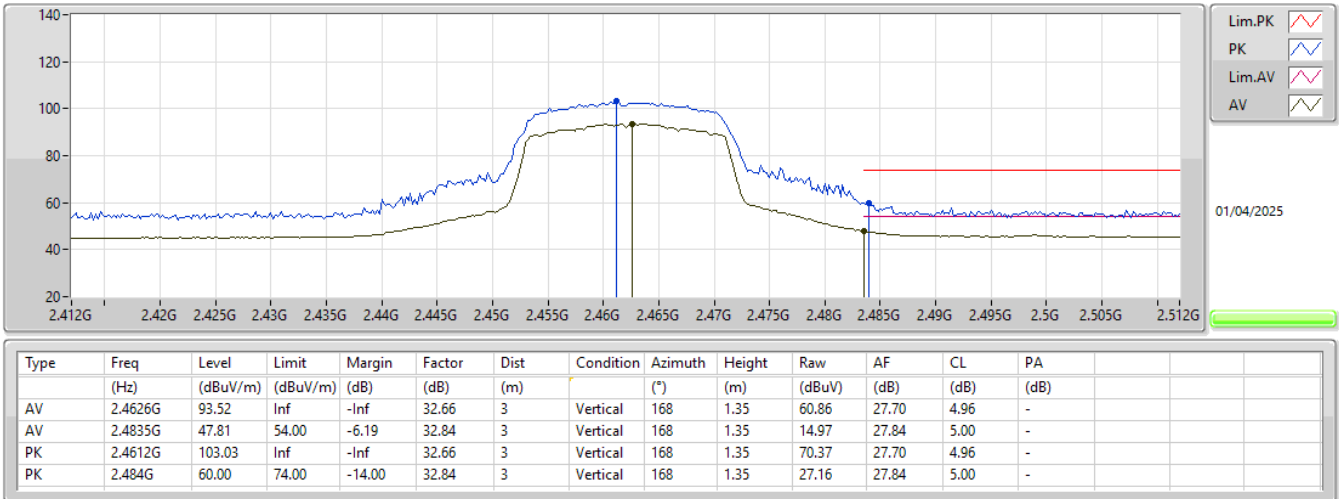
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX(Port1)

2462MHz_TX



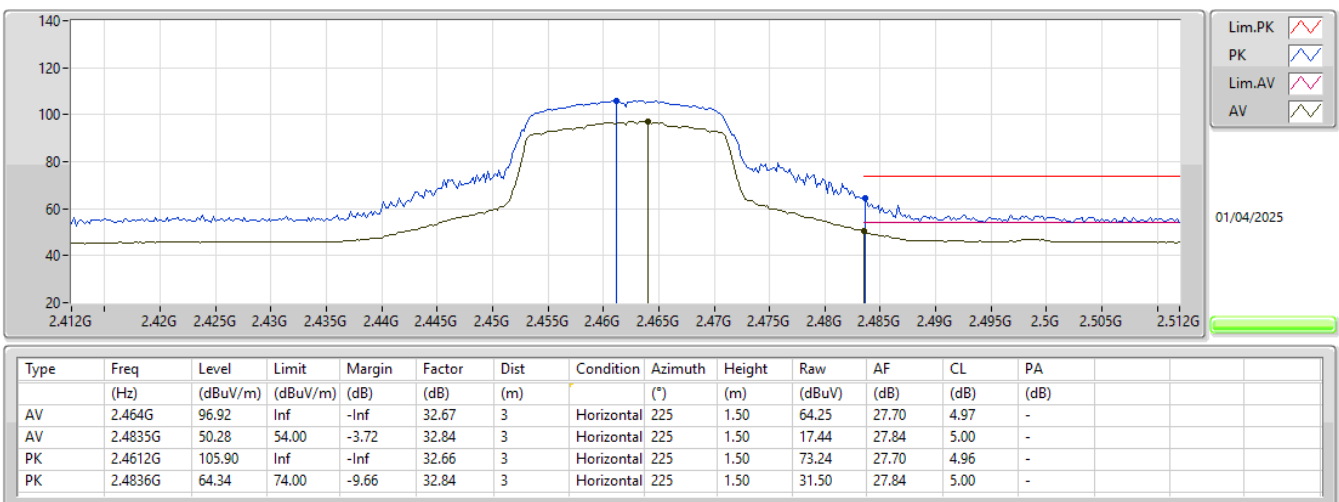
2.4-2.4835GHz_802.11n_HT20_Nss1,(MCS0)_1TX(Port1)

2462MHz_TX



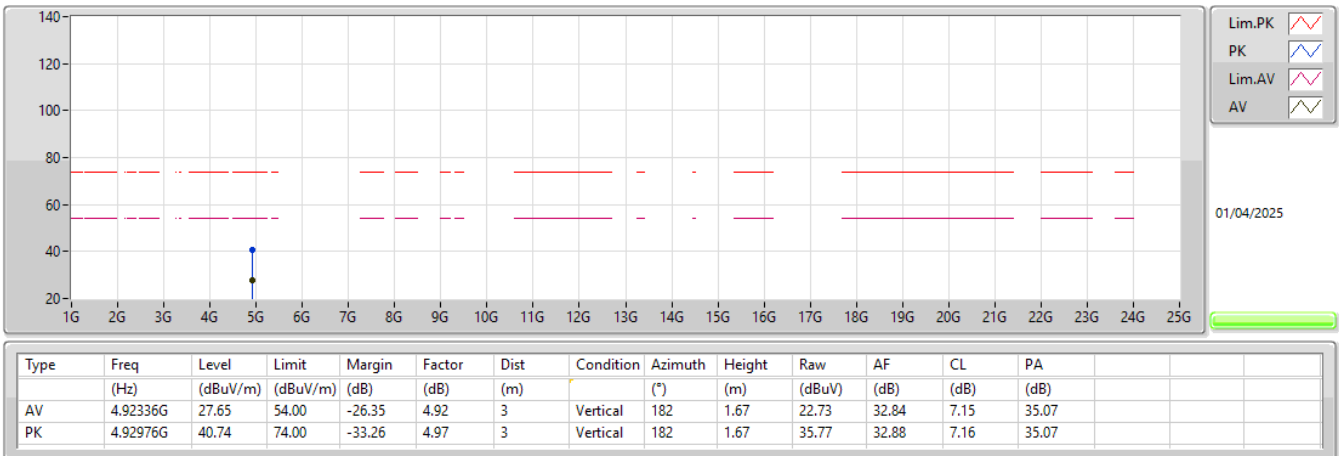
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2462MHz_TX



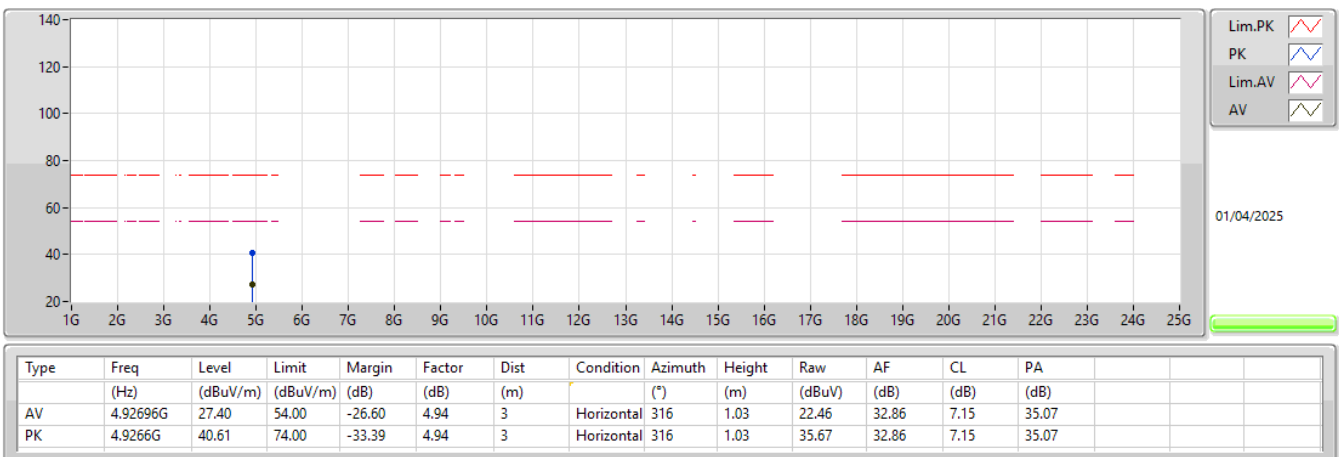
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2462MHz_TX



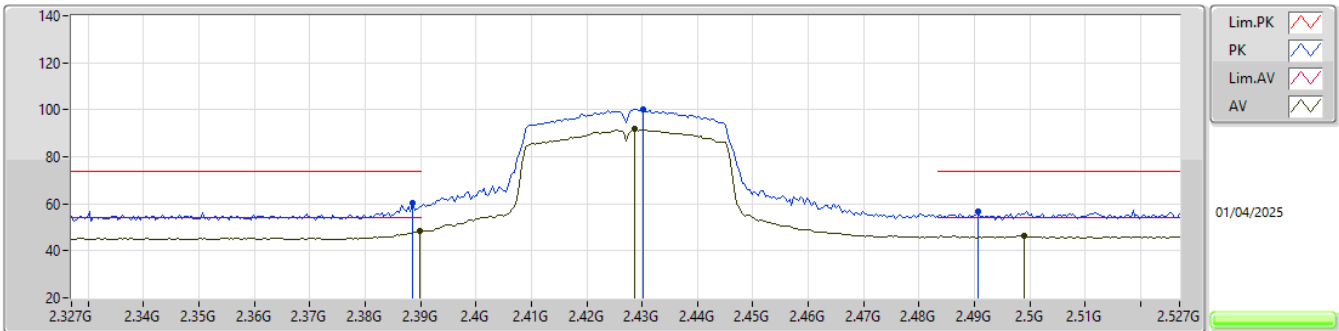
2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX(Port1)

2462MHz_TX



2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

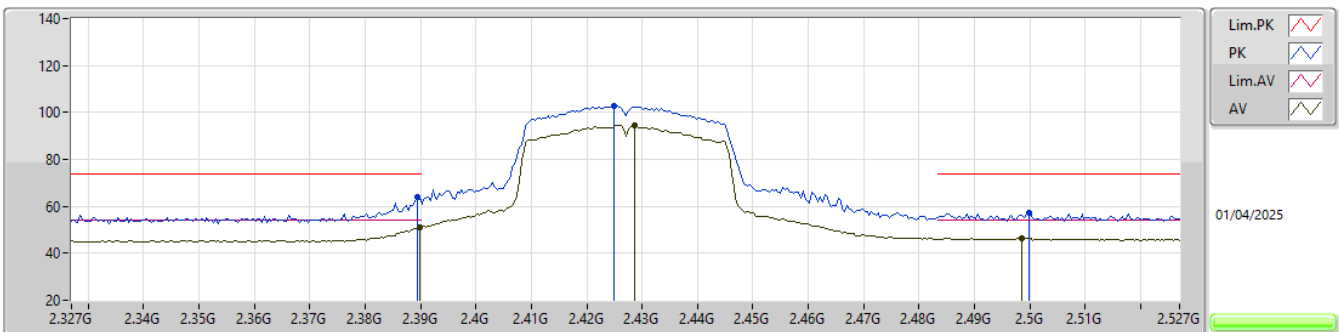
2427MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.24	54.00	-5.76	32.15	3	Vertical	168	1.72	16.09	27.30	4.85	-
AV	2.4286G	91.80	Inf	-Inf	32.51	3	Vertical	168	1.72	59.29	27.60	4.91	-
AV	2.499G	46.35	54.00	-7.65	32.92	3	Vertical	168	1.72	13.43	27.90	5.02	-
PK	2.3886G	60.37	74.00	-13.63	32.14	3	Vertical	168	1.72	28.23	27.29	4.85	-
PK	2.4302G	100.14	Inf	-Inf	32.51	3	Vertical	168	1.72	67.63	27.60	4.91	-
PK	2.4906G	56.85	74.00	-17.15	32.91	3	Vertical	168	1.72	23.94	27.90	5.01	-

2.4-2.4835GHz_802.11n HT40_Nss1,(MCS0)_1TX(Port1)

2427MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	50.89	54.00	-3.11	32.15	3	Horizontal	228	1.49	18.74	27.30	4.85	-
AV	2.4286G	94.55	Inf	-Inf	32.51	3	Horizontal	228	1.49	62.04	27.60	4.91	-
AV	2.4986G	46.63	54.00	-7.37	32.92	3	Horizontal	228	1.49	13.71	27.90	5.02	-
PK	2.3894G	63.77	74.00	-10.23	32.14	3	Horizontal	228	1.49	31.63	27.29	4.85	-
PK	2.425G	102.83	Inf	-Inf	32.50	3	Horizontal	228	1.49	70.33	27.60	4.90	-
PK	2.4998G	57.29	74.00	-16.71	32.92	3	Horizontal	228	1.49	24.37	27.90	5.02	-



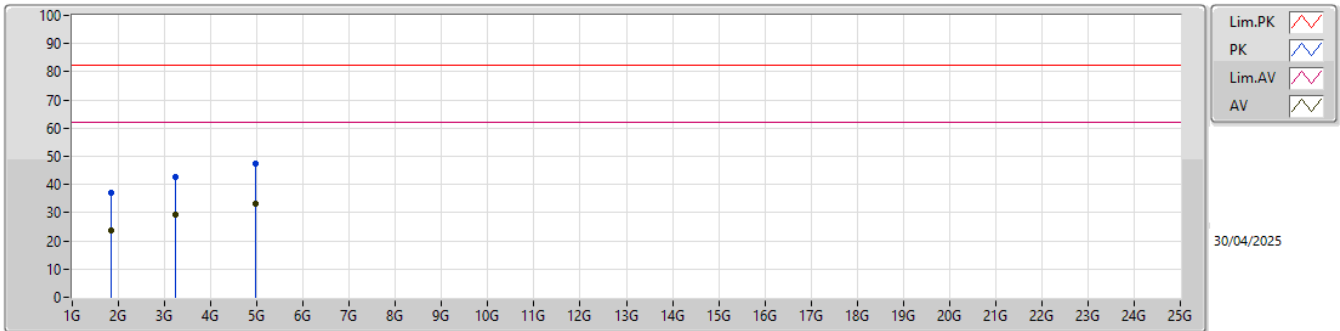
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	4.97899G	33.39	62.20	-28.81	Vertical

Result

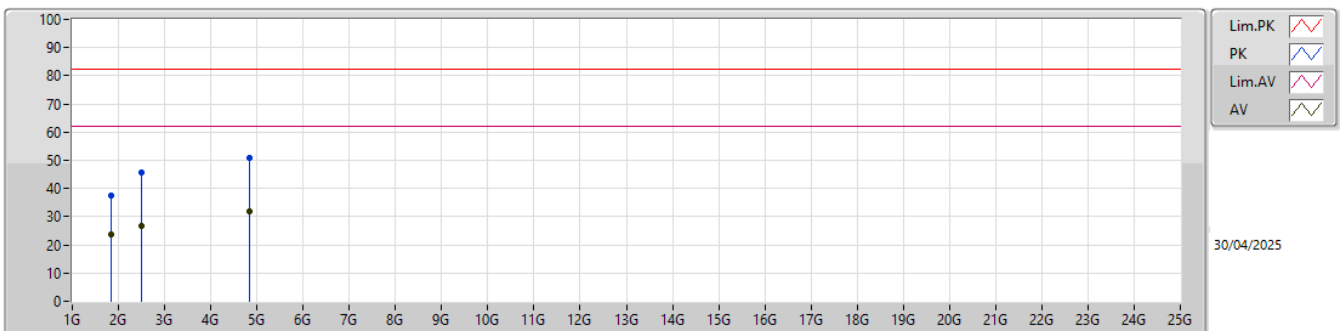
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.84334G	23.70	62.20	-38.50	3	Vertical	34	1.50	-
Mode 1	Pass	AV	3.22145G	29.31	62.20	-32.89	3	Vertical	48	2.00	-
Mode 1	Pass	AV	4.97899G	33.39	62.20	-28.81	3	Vertical	159	1.81	-
Mode 1	Pass	PK	1.84334G	36.97	82.20	-45.23	3	Vertical	34	1.50	-
Mode 1	Pass	PK	3.22145G	42.64	82.20	-39.56	3	Vertical	48	2.00	-
Mode 1	Pass	PK	4.97899G	47.45	82.20	-34.75	3	Vertical	159	1.81	-
Mode 1	Pass	AV	1.84746G	23.80	62.20	-38.40	3	Horizontal	262	1.50	-
Mode 1	Pass	AV	2.49739G	26.62	62.20	-35.58	3	Horizontal	300	1.50	-
Mode 1	Pass	AV	4.82645G	32.04	62.20	-30.16	3	Horizontal	219	1.19	-
Mode 1	Pass	PK	1.84746G	37.57	82.20	-44.63	3	Horizontal	262	1.50	-
Mode 1	Pass	PK	2.49739G	45.48	82.20	-36.72	3	Horizontal	300	1.50	-
Mode 1	Pass	PK	4.82645G	50.72	82.20	-31.48	3	Horizontal	219	1.19	-

Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
AV	1.84334G	23.70	62.20	-38.50	-5.41	3	Vertical	34	1.50	-	29.11	25.33	4.28	35.02		
AV	3.22145G	29.31	62.20	-32.89	0.21	3	Vertical	48	2.00	-	29.10	29.66	5.78	35.23		
AV	4.97899G	33.39	62.20	-28.81	5.29	3	Vertical	159	1.81	-	28.10	33.12	7.24	35.07		
PK	1.84334G	36.97	82.20	-45.23	-5.41	3	Vertical	34	1.50	-	42.38	25.33	4.28	35.02		
PK	3.22145G	42.64	82.20	-39.56	0.21	3	Vertical	48	2.00	-	42.43	29.66	5.78	35.23		
PK	4.97899G	47.45	82.20	-34.75	5.29	3	Vertical	159	1.81	-	42.16	33.12	7.24	35.07		

Radiated Emissions above 1GHz_Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)		
AV	1.84746G	23.80	62.20	-38.40	-5.37	3	Horizontal	262	1.50	-	29.17	25.37	4.28	35.02		
AV	2.49739G	26.62	62.20	-35.58	-2.21	3	Horizontal	300	1.50	-	28.83	27.90	5.02	35.13		
AV	4.82645G	32.04	62.20	-30.16	4.34	3	Horizontal	219	1.19	-	27.70	32.41	6.99	35.06		
PK	1.84746G	37.57	82.20	-44.63	-5.37	3	Horizontal	262	1.50	-	42.94	25.37	4.28	35.02		
PK	2.49739G	45.48	82.20	-36.72	-2.21	3	Horizontal	300	1.50	-	47.69	27.90	5.02	35.13		
PK	4.82645G	50.72	82.20	-31.48	4.34	3	Horizontal	219	1.19	-	46.38	32.41	6.99	35.06		