

FCC Radio Test Report

FCC ID : 2ASRT-SCN355
Equipment : Digital Projector
Brand Name : PHILIPS
Model Name : Screeneo UL5 Smart, SCN355
Applicant : Screeneo Innovation SA
Route de Lully 5C 1131 Tolochenaz Switzerland
Manufacturer : Screeneo Innovation SA
Route de Lully 5C 1131 Tolochenaz Switzerland
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 15, 2024, and testing was started from Apr. 03, 2024 and completed on Apr. 13, 2024. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR411227AC	01	Initial issue of report	Jun. 06, 2024

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: Amber Chiu

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	LeJin	LJF02-23072908-R0A	PIFA antenna	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	2.19	2.28	2.19

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

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

For 5GHz function:

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

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

For BT function:

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

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss1,(1Mbps)_1TX	0.987	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g_Nss1,(6Mbps)_1TX	0.931	0.31	1.398m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.929	0.32	1.31m	1k

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
Screeneo UL5 Smart, SCN355	All the models are identical, the difference model served as marketing strategy.

From the above models, Screeneo UL5 Smart was selected as representative model for the test and its data was recorded in this report.

1.2 Testing Applied Standards

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

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

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

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 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	21.3~22.5°C / 52~53%	13/Apr/2024
RF Conducted	TH06-HY	Henry Ho	22.1~23.4°C / 50~52%	03/Apr/2024~12/Apr/2024
Radiated	03CH03-HY	Edward Wang	21.2~23.2°C / 51~52%	09/Apr/2024~11/Apr/2024
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	putty release 0.72
Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	65
2417MHz	58
2437MHz	74
2457MHz	60
2462MHz	61
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	57
2417MHz	70
2437MHz	68
2457MHz	61
2462MHz	54
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	55
2417MHz	62
2437MHz	70
2457MHz	61
2462MHz	55

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	Y Plane	Z Plane
		
Worst Planes of EUT		V

2.3 Accessories

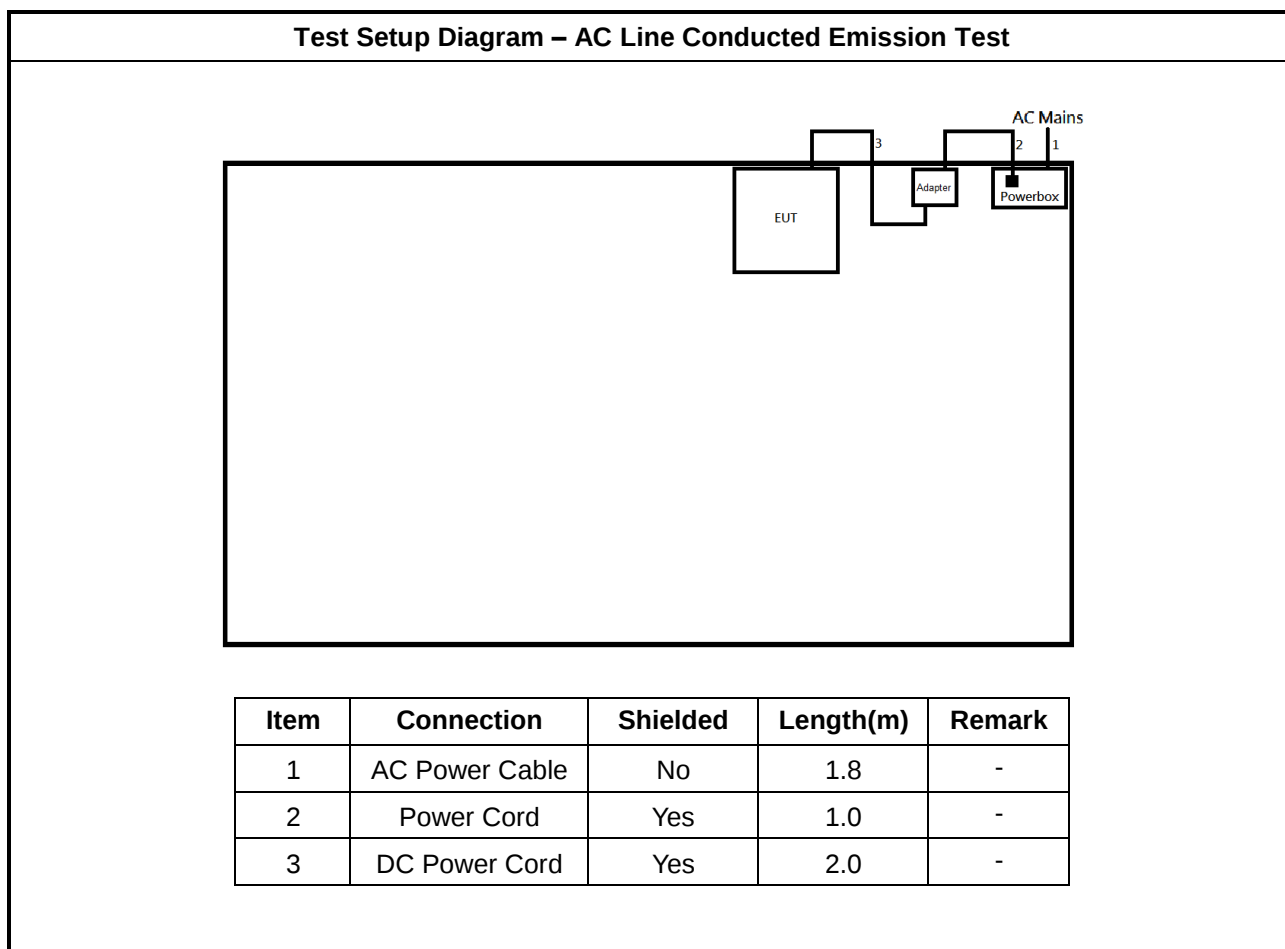
Accessories				
AC Adapter	Brand Name	PHILIPS	Model Name	S-TR-185
	Manufacturer	DONGGUAN SHELL ELECTRONIC LIMITED		
	Power Rating	I/P: 100 - 240Vac, 2 A, O/P: 5 Vdc, 3 A, 15W, 9 Vdc, 3 A, 27W 12 Vdc, 3 A, 36W 15 Vdc, 3 A, 45W 20 Vdc, 5 A, 100W		
	DC Power Cord	2 meter, shielded cable, with ferrite core		
Power Cord (US Plug)	Brand Name	I-SHENG		
	Power Cord	1 meter, shielded cable, without ferrite core		
Bluetooth remote control	Brand Name	PHILIPS	Model Name	AN2301B-2SC

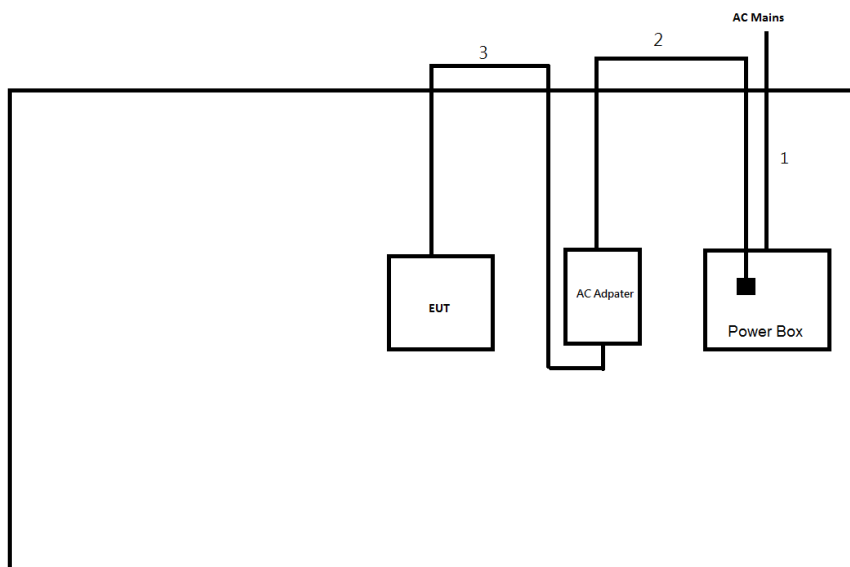
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

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

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	Power Cord	Yes	1.0	-
3	DC Power Cord	Yes	2.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

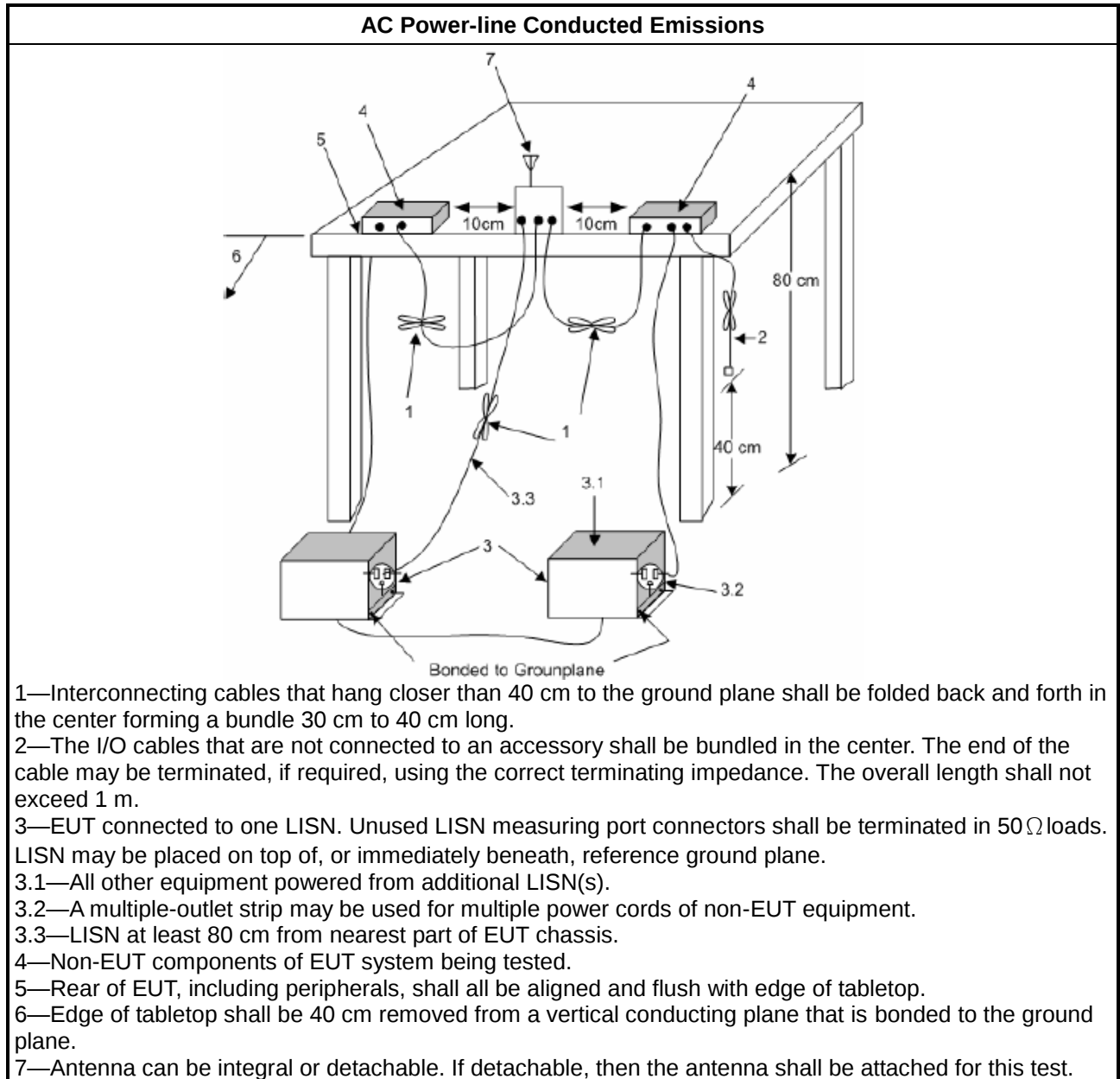
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

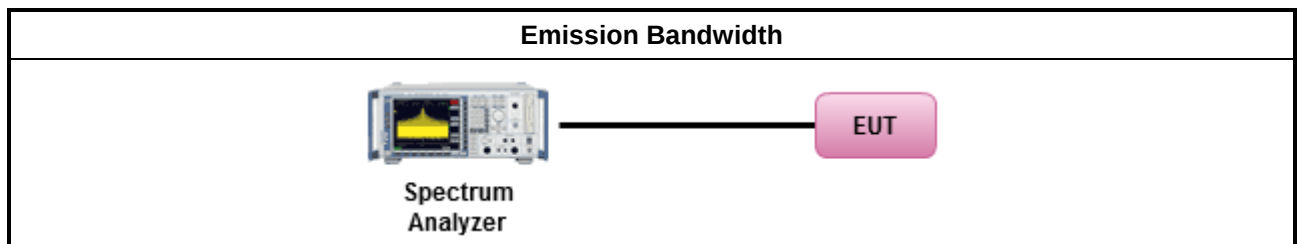
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

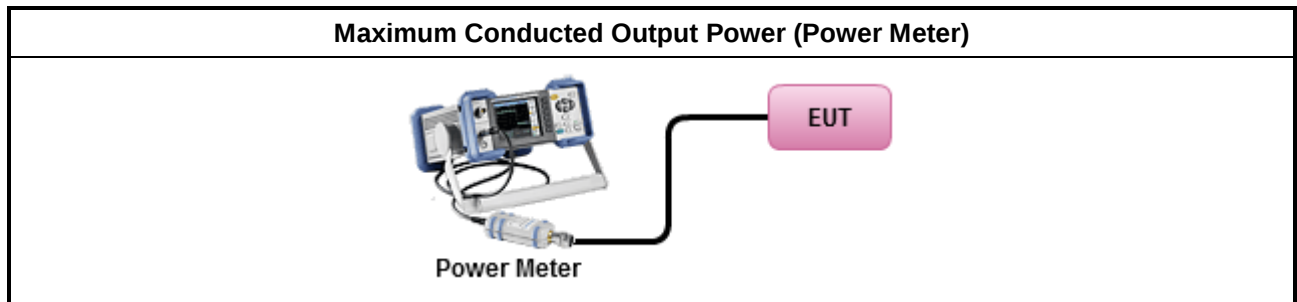
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

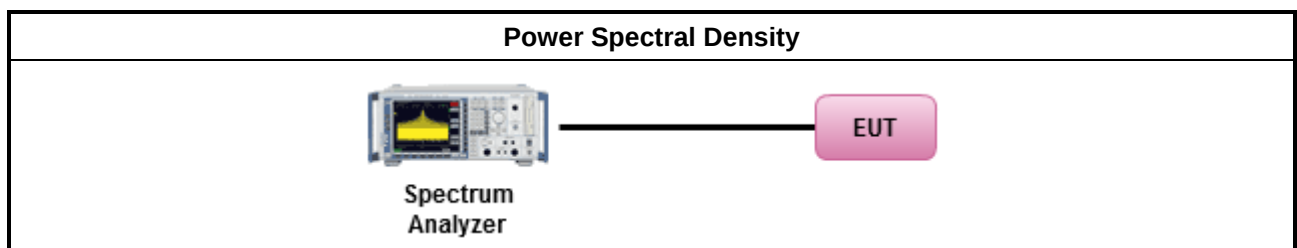
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

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

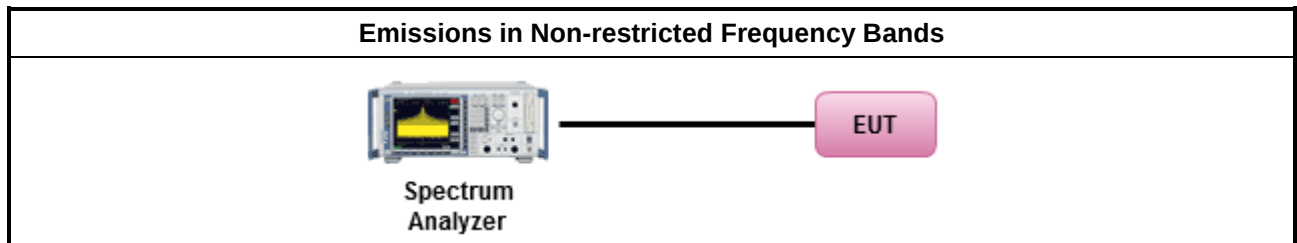
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

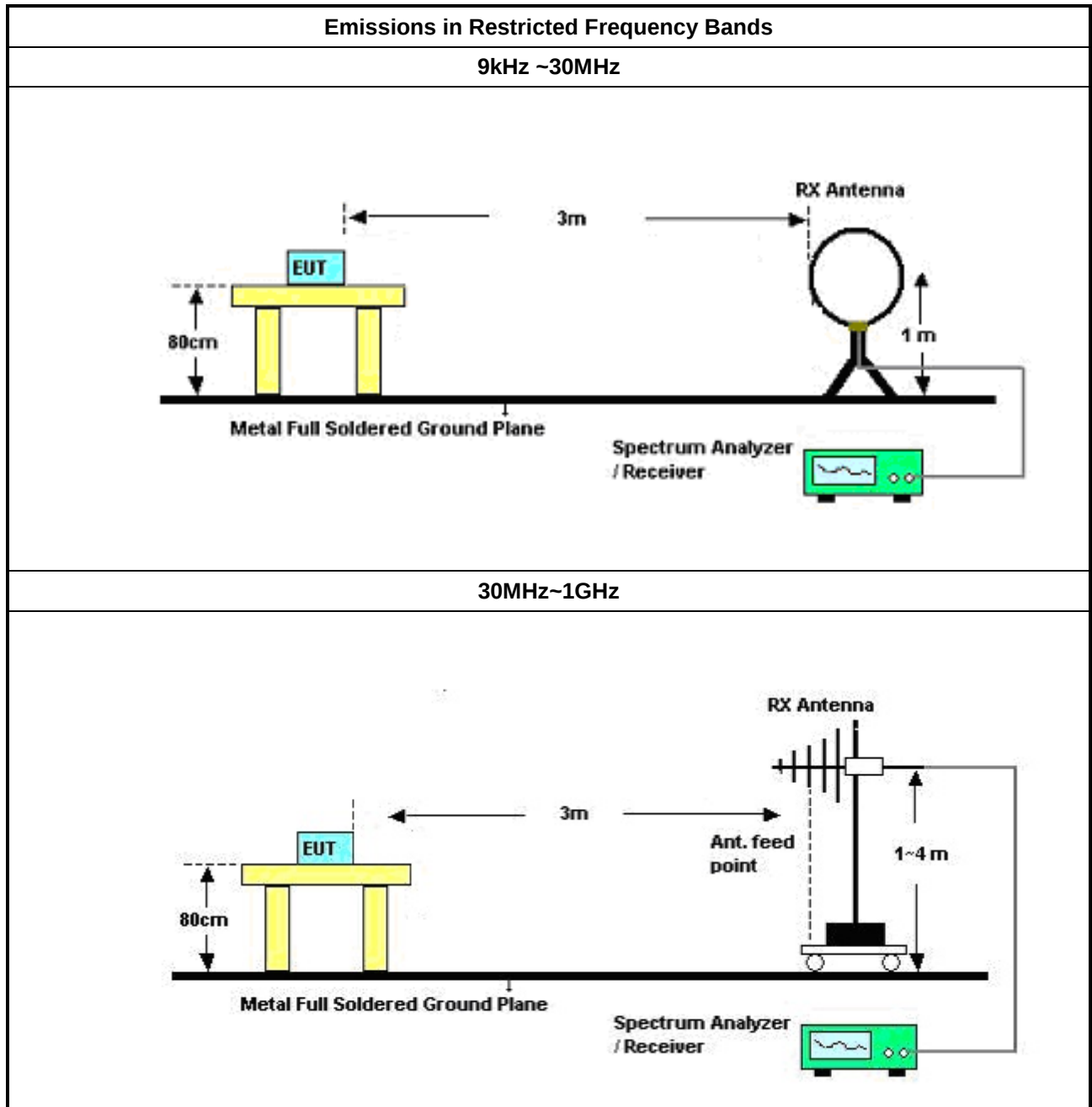
Test Method	
▪	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪	For the transmitter unwanted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

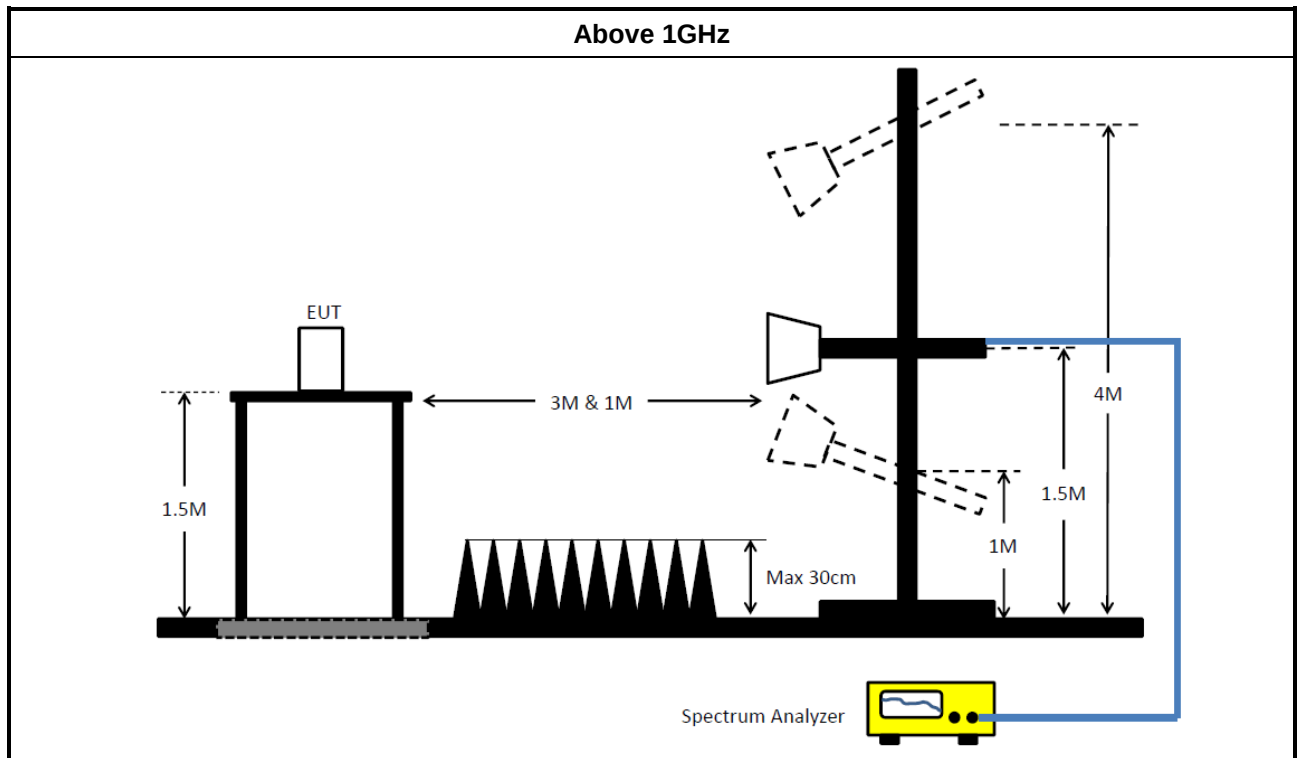
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR	102051	9kHz ~ 3.6GHz	16/May/2023	15/May/2024
Two-Line V-Network	R&S	ENV 216	101295	9kHz ~ 30MHz	05/Feb/2024	04/Feb/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	27/Feb/2024	26/Feb/2025
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	18/Oct/2023	17/Oct/2024
Software	Sporton	SENSE-EMI	V5.11.3	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV	101029	9kHz ~ 30GHz	30/Oct/2023	29/Oct/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	20/Oct/2023	19/Oct/2024
Power Meter	Anritsu	ML2495A	2105003	300MHz~40GHz	19/Sep/2023	18/Sep/2024
Power Sensor	Anritsu	MA2411B	1911254	300MHz~40GHz	19/Sep/2023	18/Sep/2024
SENSE-15247_DTS	Sporton	V5.11.17	N/A	N/A	N/A	N/A

**Instrument for Radiated Test**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	28/Jul/2023	27/Jul/2024
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	30/Jul/2023	29/Jul/2024
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	16/May/2023	15/May/2024
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	26/Oct/2023	25/Oct/2024
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	19/Mar/2024	18/Mar/2025
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMC	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	15/Oct/2023	14/Oct/2024
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	04/Oct/2023	03/Oct/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	01248	18GHz ~ 40GHz	21/Aug/2023	20/Aug/2024
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz~30MHz	13/Jun/2023	12/Jun/2024
RF Cable-R03m	Jye Bao	RG142	03CH03-cable-02	30MHz~1GHz	13/Jun/2023	12/Jun/2024
RF CABLE 5+8 m	HUBER+SUHNER	SUOFLEX 104	03CH03-cable-03	1GHz~40GHz	20/Feb/2024	19/Feb/2025
Amplifier	Agilent	8447D	2944A08033	100kHz~1.3GHz	14/Sep/2023	13/Sep/2024
Microwave Preamplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	26/Jul/2023	25/Jul/2024
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	18/Aug/2023	17/Aug/2024
SENSE-15247_DTS	Sporton	V5.11.16	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

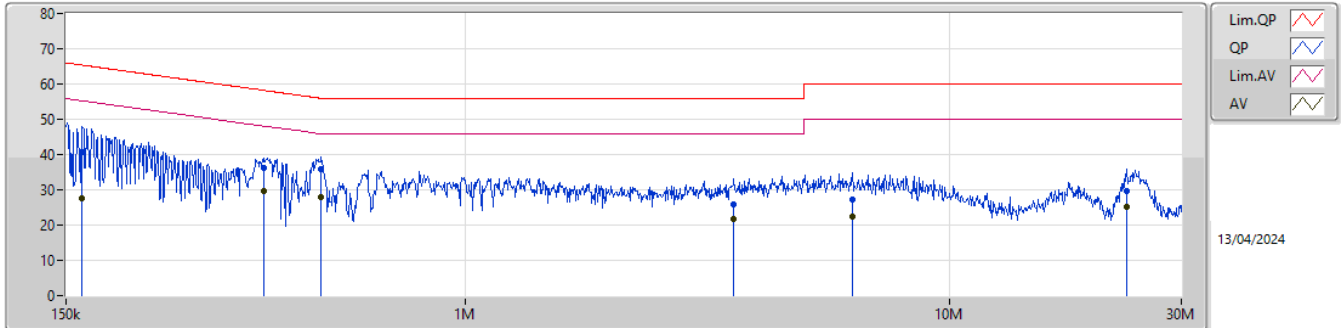
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	504.824k	28.04	46.00	-17.96	Line

Result

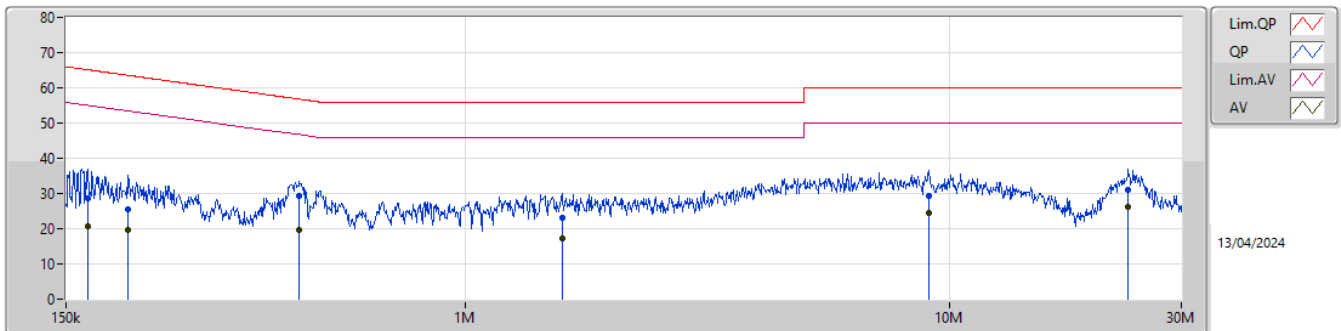
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	161.82k	40.64	65.37	-24.73	Line	-
Mode 1	Pass	AV	161.82k	27.72	55.37	-27.65	Line	-
Mode 1	Pass	QP	383.278k	36.06	58.20	-22.14	Line	-
Mode 1	Pass	AV	383.278k	29.75	48.20	-18.45	Line	-
Mode 1	Pass	QP	504.824k	35.94	56.00	-20.06	Line	-
Mode 1	Pass	AV	504.824k	28.04	46.00	-17.96	Line	-
Mode 1	Pass	QP	3.584M	25.85	56.00	-30.15	Line	-
Mode 1	Pass	AV	3.584M	21.71	46.00	-24.29	Line	-
Mode 1	Pass	QP	6.293M	27.39	60.00	-32.61	Line	-
Mode 1	Pass	AV	6.293M	22.51	50.00	-27.49	Line	-
Mode 1	Pass	QP	23.123M	29.80	60.00	-30.20	Line	-
Mode 1	Pass	AV	23.123M	25.03	50.00	-24.97	Line	-
Mode 1	Pass	QP	166.406k	28.68	65.14	-36.46	Neutral	-
Mode 1	Pass	AV	166.406k	20.82	55.14	-34.32	Neutral	-
Mode 1	Pass	QP	200.748k	25.50	63.57	-38.07	Neutral	-
Mode 1	Pass	AV	200.748k	19.66	53.57	-33.91	Neutral	-
Mode 1	Pass	QP	455.055k	29.31	56.78	-27.47	Neutral	-
Mode 1	Pass	AV	455.055k	19.61	46.78	-27.17	Neutral	-
Mode 1	Pass	QP	1.581M	23.02	56.00	-32.98	Neutral	-
Mode 1	Pass	AV	1.581M	17.26	46.00	-28.74	Neutral	-
Mode 1	Pass	QP	9.049M	29.35	60.00	-30.65	Neutral	-
Mode 1	Pass	AV	9.049M	24.48	50.00	-25.52	Neutral	-
Mode 1	Pass	QP	23.308M	31.19	60.00	-28.81	Neutral	-
Mode 1	Pass	AV	23.308M	26.25	50.00	-23.75	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	161.82k	40.64	65.37	-24.73	19.42	Line	-	21.22	9.61	0.07	9.74						
AV	161.82k	27.72	55.37	-27.65	19.42	Line	-	8.30	9.61	0.07	9.74						
QP	383.278k	36.06	58.20	-22.14	19.49	Line	-	16.57	9.61	0.12	9.76						
AV	383.278k	29.75	48.20	-18.45	19.49	Line	-	10.26	9.61	0.12	9.76						
QP	504.824k	35.94	56.00	-20.06	19.49	Line	-	16.45	9.61	0.11	9.77						
AV	504.824k	28.04	46.00	-17.96	19.49	Line	-	8.55	9.61	0.11	9.77						
QP	3.584M	25.85	56.00	-30.15	19.51	Line	-	6.34	9.64	0.08	9.79						
AV	3.584M	21.71	46.00	-24.29	19.51	Line	-	2.20	9.64	0.08	9.79						
QP	6.293M	27.39	60.00	-32.61	19.50	Line	-	7.89	9.65	0.06	9.79						
AV	6.293M	22.51	50.00	-27.49	19.50	Line	-	3.01	9.65	0.06	9.79						
QP	23.123M	29.80	60.00	-30.20	19.52	Line	-	10.28	9.55	0.13	9.84						
AV	23.123M	25.03	50.00	-24.97	19.52	Line	-	5.51	9.55	0.13	9.84						

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	166.406k	28.68	65.14	-36.46	19.42	Neutral	-	9.26	9.62	0.07	9.73						
AV	166.406k	20.82	55.14	-34.32	19.42	Neutral	-	1.40	9.62	0.07	9.73						
QP	200.748k	25.50	63.57	-38.07	19.38	Neutral	-	6.12	9.61	0.09	9.68						
AV	200.748k	19.66	53.57	-33.91	19.38	Neutral	-	0.28	9.61	0.09	9.68						
QP	455.055k	29.31	56.78	-27.47	19.50	Neutral	-	9.81	9.61	0.12	9.77						
AV	455.055k	19.61	46.78	-27.17	19.50	Neutral	-	0.11	9.61	0.12	9.77						
QP	1.581M	23.02	56.00	-32.98	19.52	Neutral	-	3.50	9.62	0.10	9.80						
AV	1.581M	17.26	46.00	-28.74	19.52	Neutral	-	-2.26	9.62	0.10	9.80						
QP	9.049M	29.35	60.00	-30.65	19.52	Neutral	-	9.83	9.68	0.05	9.79						
AV	9.049M	24.48	50.00	-25.52	19.52	Neutral	-	4.96	9.68	0.05	9.79						
QP	23.308M	31.19	60.00	-28.81	19.66	Neutral	-	11.53	9.69	0.13	9.84						
AV	23.308M	26.25	50.00	-23.75	19.66	Neutral	-	6.59	9.69	0.13	9.84						

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	6.95M	14.588M	14M6G1D	6.55M	11.709M
802.11g_Nss1,(6Mbps)_1TX	13.5M	16.382M	16M4D1D	12.525M	16.294M
802.11n HT20_Nss1,(MCS0)_1TX	12.6M	17.641M	17M6D1D	10.6M	17.516M

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	6.575M	11.919M
2437MHz	Pass	500k	6.95M	14.588M
2462MHz	Pass	500k	6.55M	11.709M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	12.9M	16.382M
2437MHz	Pass	500k	13.5M	16.382M
2462MHz	Pass	500k	12.525M	16.294M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	12.6M	17.641M
2437MHz	Pass	500k	11.35M	17.616M
2462MHz	Pass	500k	10.6M	17.516M

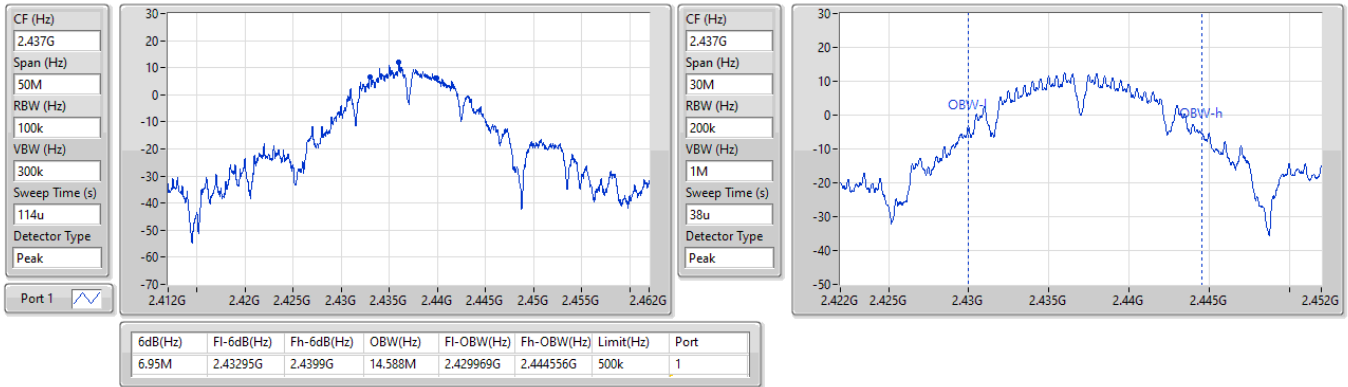
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

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

EBW

2437MHz

12/04/2024

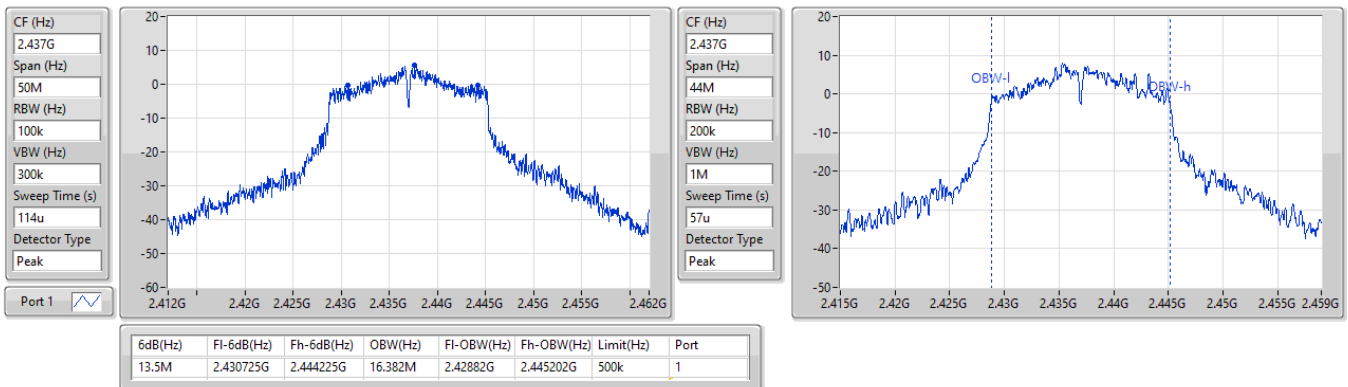


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

12/04/2024

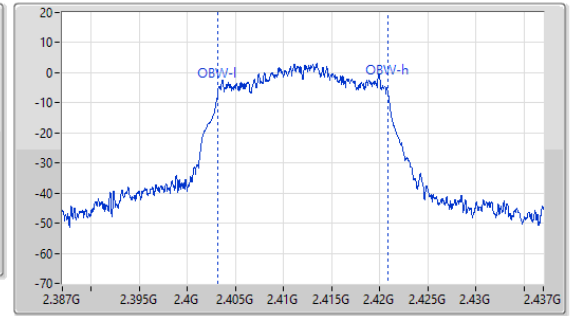
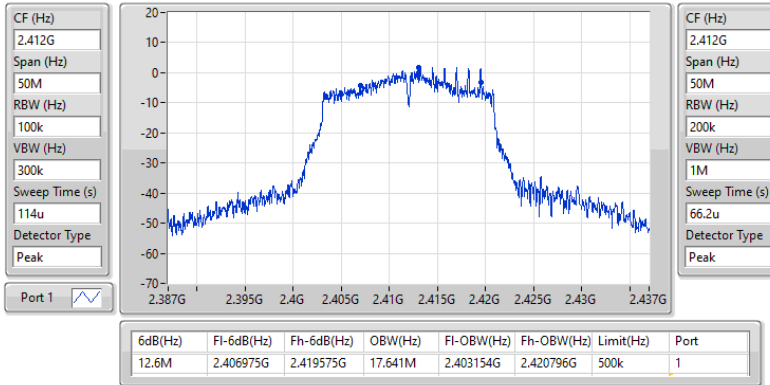


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

12/04/2024





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.65	0.11614
802.11g_Nss1,(6Mbps)_1TX	17.41	0.05508
802.11n HT20_Nss1,(MCS0)_1TX	17.50	0.05623

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.19	16.91	16.91	30.00
2417MHz	Pass	2.19	14.69	14.69	30.00
2437MHz	Pass	2.19	20.65	20.65	30.00
2457MHz	Pass	2.19	15.96	15.96	30.00
2462MHz	Pass	2.19	16.46	16.46	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.19	14.17	14.17	30.00
2417MHz	Pass	2.19	17.41	17.41	30.00
2437MHz	Pass	2.19	17.38	17.38	30.00
2457MHz	Pass	2.19	15.63	15.63	30.00
2462MHz	Pass	2.19	14.25	14.25	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.19	13.38	13.38	30.00
2417MHz	Pass	2.19	15.08	15.08	30.00
2437MHz	Pass	2.19	17.50	17.50	30.00
2457MHz	Pass	2.19	15.48	15.48	30.00
2462MHz	Pass	2.19	14.17	14.17	30.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-4.00
802.11g_Nss1,(6Mbps)_1TX	-5.17
802.11n HT20_Nss1,(MCS0)_1TX	-6.51

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.19	-5.36	-5.36	8.00
2437MHz	Pass	2.19	-4.00	-4.00	8.00
2462MHz	Pass	2.19	-6.63	-6.63	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.19	-10.53	-10.53	8.00
2437MHz	Pass	2.19	-5.17	-5.17	8.00
2462MHz	Pass	2.19	-9.38	-9.38	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.19	-10.58	-10.58	8.00
2437MHz	Pass	2.19	-6.51	-6.51	8.00
2462MHz	Pass	2.19	-9.56	-9.56	8.00

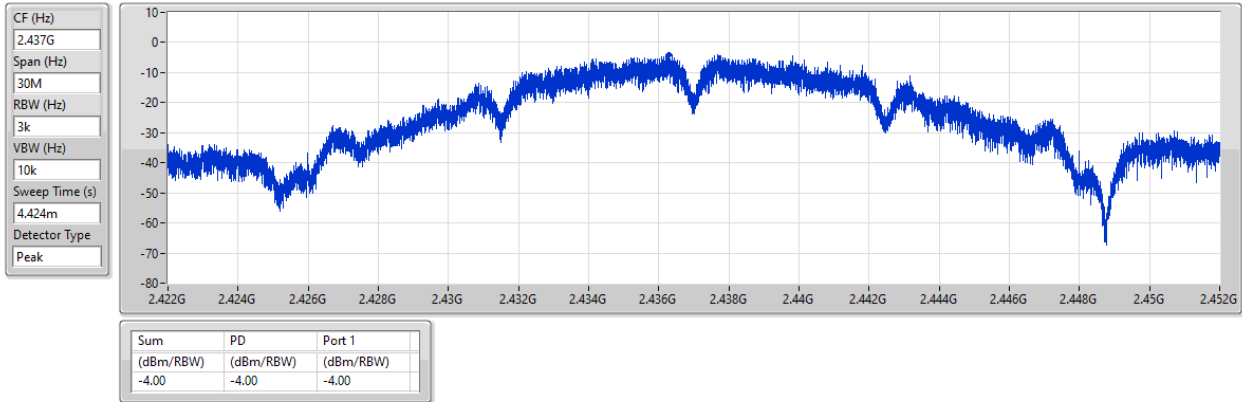
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

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

PSD

2437MHz

12/04/2024

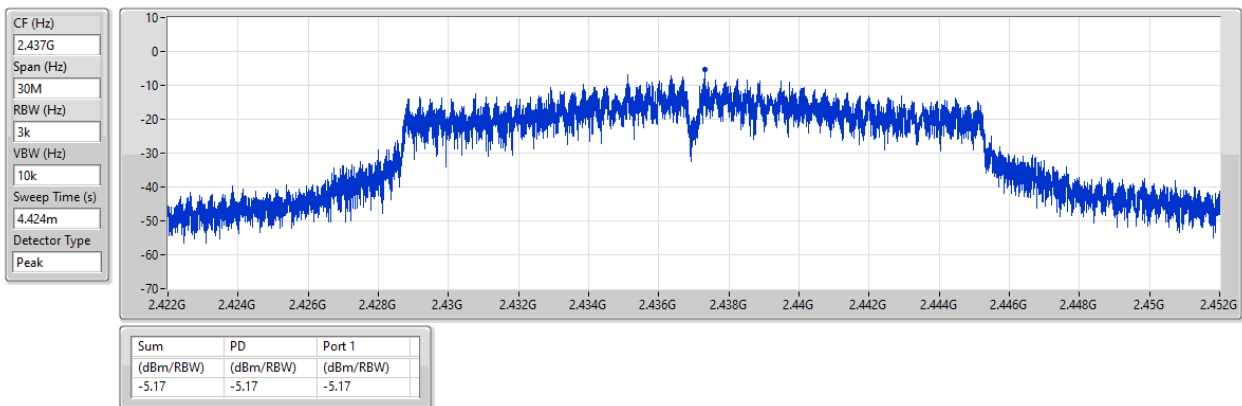


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

12/04/2024

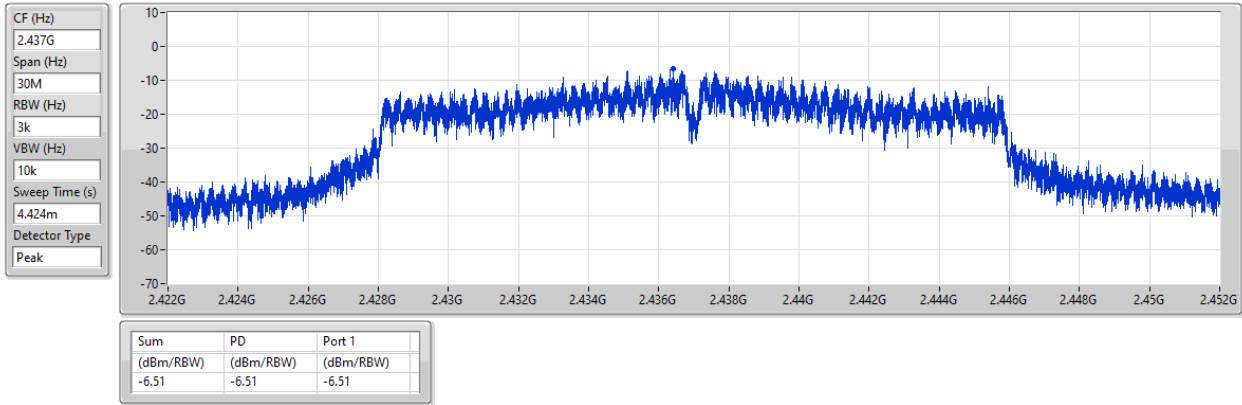


2.4-2.4835GHz_802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

12/04/2024





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43591G	11.80	-18.20	1.98837G	-54.63	2.39856G	-26.39	2.4G	-35.00	2.52198G	-51.66	17.63614G	-42.56	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.44192G	5.77	-24.23	1.99303G	-54.87	2.39872G	-31.85	2.4G	-32.46	2.52054G	-53.15	15.29296G	-43.44	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43941G	6.63	-23.37	2.17244G	-55.49	2.3992G	-31.62	2.4G	-34.73	2.52302G	-52.73	23.30583G	-43.38	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	2.43591G	11.80	-18.20	1.98837G	-54.63	2.39856G	-26.39	2.4G	-35.00	2.52198G	-51.66	17.63614G	-42.56	1
2437MHz	Pass	2.43591G	11.80	-18.20	2.12817G	-55.58	2.39952G	-35.57	2.4G	-36.30	2.5031G	-50.96	16.25383G	-42.65	1
2462MHz	Pass	2.43591G	11.80	-18.20	908.41M	-54.67	2.39584G	-53.92	2.4G	-54.63	2.50934G	-52.53	16.2145G	-43.03	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44192G	5.77	-24.23	1.99303G	-54.87	2.39872G	-31.85	2.4G	-32.46	2.52054G	-53.15	15.29296G	-43.44	1
2437MHz	Pass	2.44192G	5.77	-24.23	2.00817G	-55.81	2.39856G	-45.62	2.4G	-47.51	2.51694G	-52.02	16.43926G	-42.38	1
2462MHz	Pass	2.44192G	5.77	-24.23	1.85789G	-55.41	2.39096G	-53.60	2.4G	-54.84	2.50414G	-52.55	16.85508G	-40.22	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43941G	6.63	-23.37	2.17244G	-55.49	2.3992G	-31.62	2.4G	-34.73	2.52302G	-52.73	23.30583G	-43.38	1
2437MHz	Pass	2.43941G	6.63	-23.37	2.30641G	-54.60	2.39944G	-45.77	2.4G	-46.18	2.50998G	-51.57	17.64176G	-42.51	1
2462MHz	Pass	2.43941G	6.63	-23.37	1.81944G	-54.93	2.39408G	-53.46	2.4G	-54.87	2.50438G	-52.03	16.23697G	-43.16	1

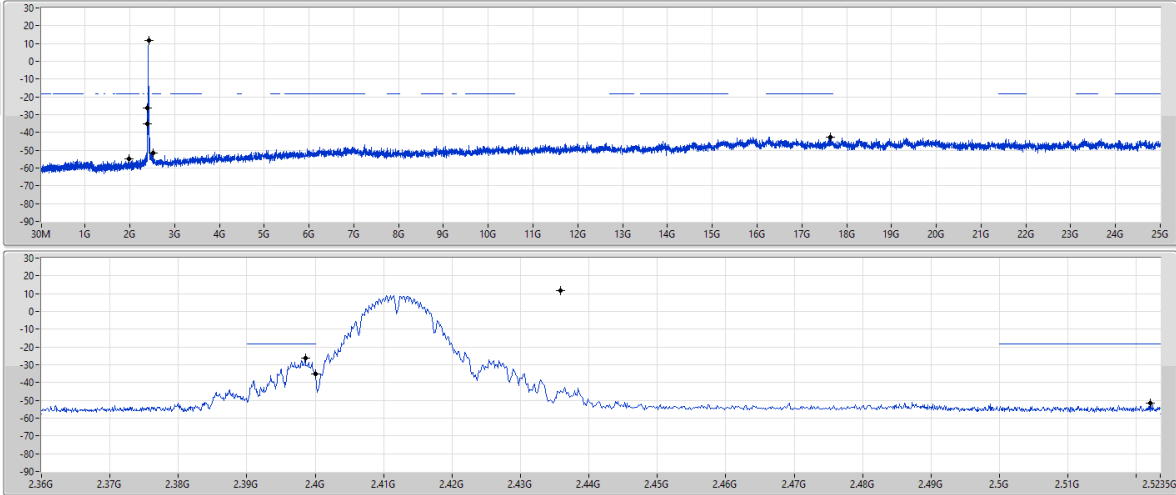
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

12/04/2024

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
2.43591G	11.80	-18.20	1.98837G	-54.63	2.39856G	-26.39	2.4G	-35.00	2.52198G	-51.66	17.63614G	-42.56	1

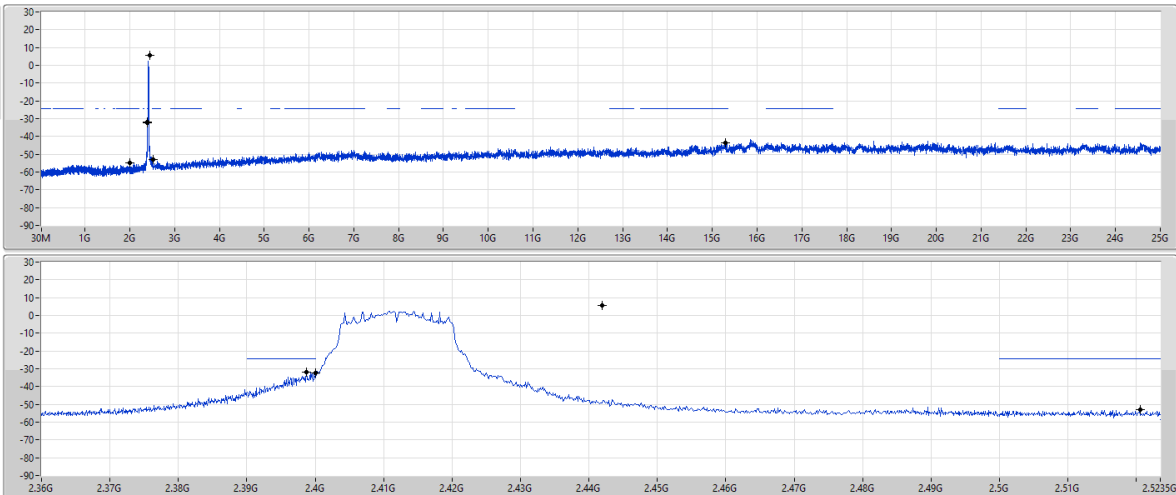
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

CSEndB

2412MHz

12/04/2024

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
2.44192G	5.77	-24.23	1.99303G	-54.87	2.39872G	-31.85	2.4G	-32.46	2.52054G	-53.15	15.29296G	-43.44	1

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

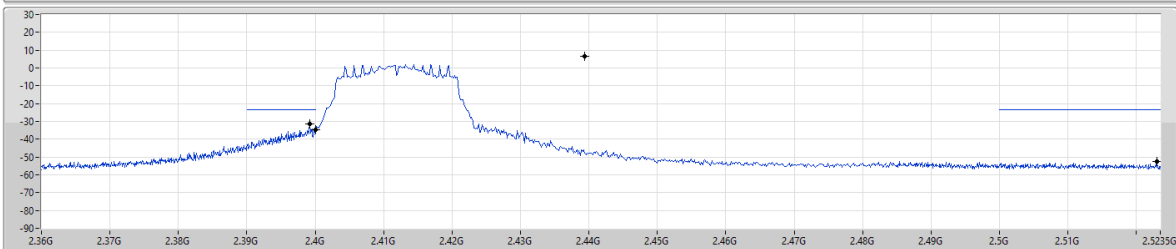
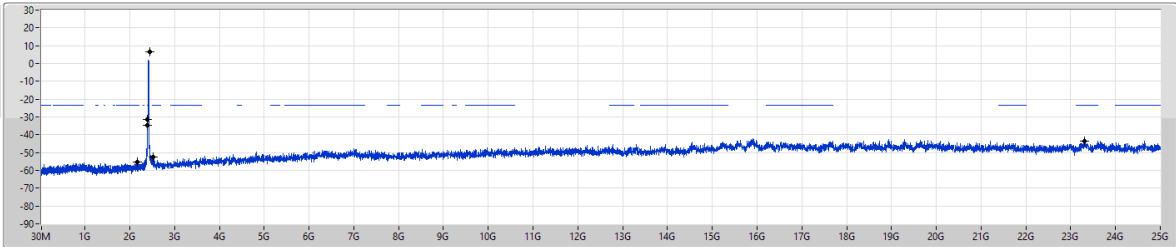
CSEndB

2412MHz

12/04/2024

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

Port 1



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
2.43941G	6.63	-23.37	2.17244G	-55.49	2.3992G	-31.62	2.4G	-34.73	2.52302G	-52.73	23.30583G	-43.38	1



Summary

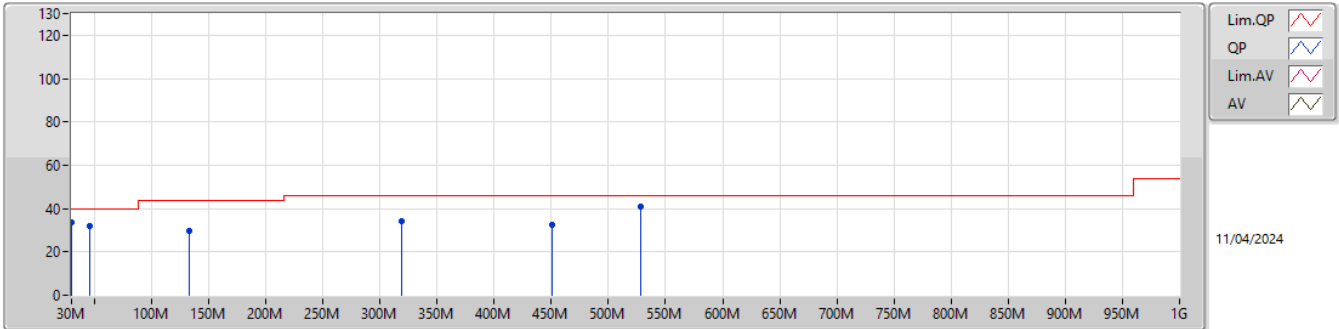
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	319.06M	42.11	46.00	-3.89	3	Horizontal	360	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	33.47	40.00	-6.53	3	Vertical	0	1.00
2437MHz	Pass	PK	45.52M	32.07	40.00	-7.93	3	Vertical	0	1.00
2437MHz	Pass	PK	132.82M	29.65	43.50	-13.85	3	Vertical	0	1.00
2437MHz	Pass	PK	319.06M	34.10	46.00	-11.90	3	Vertical	0	1.00
2437MHz	Pass	PK	450.98M	32.42	46.00	-13.58	3	Vertical	0	1.00
2437MHz	Pass	PK	528.58M	41.02	46.00	-4.98	3	Vertical	0	1.00
2437MHz	Pass	PK	138.64M	31.29	43.50	-12.21	3	Horizontal	360	1.00
2437MHz	Pass	PK	319.06M	42.11	46.00	-3.89	3	Horizontal	360	1.00
2437MHz	Pass	PK	367.56M	39.87	46.00	-6.13	3	Horizontal	360	1.00
2437MHz	Pass	PK	450.98M	38.73	46.00	-7.27	3	Horizontal	360	1.00
2437MHz	Pass	PK	528.58M	41.45	46.00	-4.55	3	Horizontal	360	1.00
2437MHz	Pass	PK	666.32M	35.96	46.00	-10.04	3	Horizontal	360	1.00

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

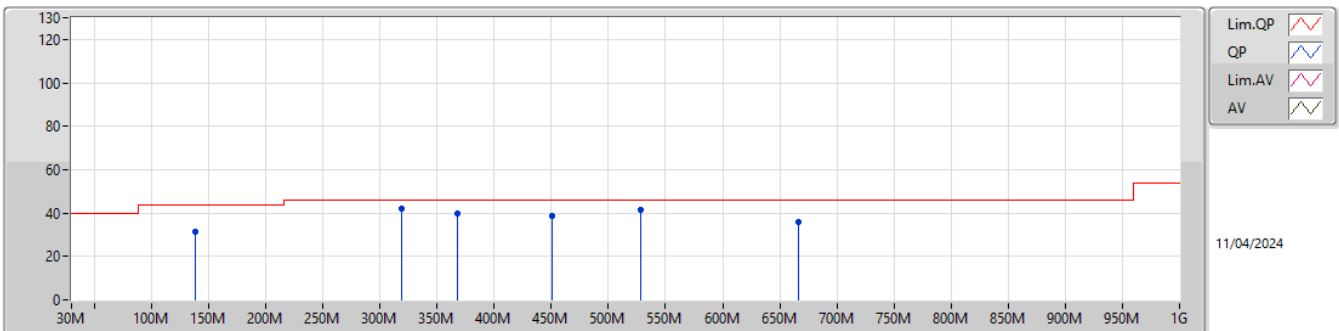
2437MHz_TX



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	30M	33.47	40.00	-6.53	-3.18	3	Vertical	0	1.00	36.65	23.49	0.92	27.59
PK	45.52M	32.07	40.00	-7.93	-11.20	3	Vertical	0	1.00	43.27	15.26	1.10	27.56
PK	132.82M	29.65	43.50	-13.85	-8.43	3	Vertical	0	1.00	38.08	16.99	1.90	27.32
PK	319.06M	34.10	46.00	-11.90	-5.29	3	Vertical	0	1.00	39.39	18.71	3.01	27.01
PK	450.98M	32.42	46.00	-13.58	-1.89	3	Vertical	0	1.00	34.31	22.29	3.62	27.80
PK	528.58M	41.02	46.00	-4.98	-0.80	3	Vertical	0	1.00	41.82	23.41	3.93	28.14

2.4-2.4835GHz_802.11n HT20_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	138.64M	31.29	43.50	-12.21	-8.65	3	Horizontal	360	1.00	39.94	16.71	1.94	27.30
PK	319.06M	42.11	46.00	-3.89	-5.29	3	Horizontal	360	1.00	47.40	18.71	3.01	27.01
PK	367.56M	39.87	46.00	-6.13	-3.94	3	Horizontal	360	1.00	43.81	20.02	3.24	27.20
PK	450.98M	38.73	46.00	-7.27	-1.89	3	Horizontal	360	1.00	40.62	22.29	3.62	27.80
PK	528.58M	41.45	46.00	-4.55	-0.80	3	Horizontal	360	1.00	42.25	23.41	3.93	28.14
PK	666.32M	35.96	46.00	-10.04	0.63	3	Horizontal	360	1.00	35.33	24.31	4.50	28.18



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	7.31024G	53.97	54.00	-0.03	3	Vertical	150	2.24
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.3898G	53.76	54.00	-0.24	3	Vertical	144	2.09
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	7.3088G	53.91	54.00	-0.09	3	Vertical	154	2.25

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3874G	53.43	54.00	-0.57	3	Vertical	143	2.10
2412MHz	Pass	AV	2.4112G	109.19	Inf	-Inf	3	Vertical	143	2.10
2412MHz	Pass	PK	2.3896G	62.69	74.00	-11.31	3	Vertical	143	2.10
2412MHz	Pass	PK	2.4112G	111.59	Inf	-Inf	3	Vertical	143	2.10
2412MHz	Pass	AV	2.3876G	49.47	54.00	-4.53	3	Horizontal	194	3.00
2412MHz	Pass	AV	2.4112G	102.47	Inf	-Inf	3	Horizontal	194	3.00
2412MHz	Pass	PK	2.3876G	60.95	74.00	-13.05	3	Horizontal	194	3.00
2412MHz	Pass	PK	2.411G	104.78	Inf	-Inf	3	Horizontal	194	3.00
2412MHz	Pass	AV	4.824G	46.33	54.00	-7.67	3	Vertical	121	1.09
2412MHz	Pass	PK	4.824G	52.04	74.00	-21.96	3	Vertical	121	1.09
2412MHz	Pass	AV	4.82396G	44.35	54.00	-9.65	3	Horizontal	129	2.26
2412MHz	Pass	PK	4.82416G	51.10	74.00	-22.90	3	Horizontal	129	2.26
2417MHz	Pass	AV	2.3896G	48.28	54.00	-5.72	3	Vertical	142	1.81
2417MHz	Pass	AV	2.4178G	107.03	Inf	-Inf	3	Vertical	142	1.81
2417MHz	Pass	PK	2.3842G	60.25	74.00	-13.75	3	Vertical	142	1.81
2417MHz	Pass	PK	2.418G	109.49	Inf	-Inf	3	Vertical	142	1.81
2417MHz	Pass	AV	2.37G	48.24	54.00	-5.76	3	Horizontal	193	2.72
2417MHz	Pass	AV	2.4178G	99.92	Inf	-Inf	3	Horizontal	193	2.72
2417MHz	Pass	PK	2.39G	60.22	74.00	-13.78	3	Horizontal	193	2.72
2417MHz	Pass	PK	2.418G	102.39	Inf	-Inf	3	Horizontal	193	2.72
2417MHz	Pass	AV	4.83396G	43.64	54.00	-10.36	3	Vertical	120	1.00
2417MHz	Pass	AV	7.2502G	53.54	54.00	-0.46	3	Vertical	144	2.12
2417MHz	Pass	PK	4.83416G	50.45	74.00	-23.55	3	Vertical	120	1.00
2417MHz	Pass	PK	7.25036G	59.46	74.00	-14.54	3	Vertical	144	2.12
2417MHz	Pass	AV	4.834G	39.86	54.00	-14.14	3	Horizontal	73	1.02
2417MHz	Pass	AV	7.25184G	47.82	54.00	-6.18	3	Horizontal	190	1.50
2417MHz	Pass	PK	4.83396G	48.62	74.00	-25.38	3	Horizontal	73	1.02
2417MHz	Pass	PK	7.25056G	56.00	74.00	-18.00	3	Horizontal	190	1.50
2437MHz	Pass	AV	2.3898G	49.73	54.00	-4.27	3	Vertical	143	2.04
2437MHz	Pass	AV	2.4362G	111.77	Inf	-Inf	3	Vertical	143	2.04
2437MHz	Pass	AV	2.4838G	50.81	54.00	-3.19	3	Vertical	143	2.04
2437MHz	Pass	PK	2.357G	61.22	74.00	-12.78	3	Vertical	143	2.04
2437MHz	Pass	PK	2.4362G	114.22	Inf	-Inf	3	Vertical	143	2.04
2437MHz	Pass	PK	2.485G	61.64	74.00	-12.36	3	Vertical	143	2.04
2437MHz	Pass	AV	2.3886G	48.27	54.00	-5.73	3	Horizontal	16	1.10
2437MHz	Pass	AV	2.4362G	102.95	Inf	-Inf	3	Horizontal	16	1.10
2437MHz	Pass	AV	2.4846G	49.38	54.00	-4.62	3	Horizontal	16	1.10
2437MHz	Pass	PK	2.3638G	60.32	74.00	-13.68	3	Horizontal	16	1.10
2437MHz	Pass	PK	2.4362G	105.36	Inf	-Inf	3	Horizontal	16	1.10
2437MHz	Pass	PK	2.4926G	62.04	74.00	-11.96	3	Horizontal	16	1.10
2437MHz	Pass	AV	4.87394G	39.71	54.00	-14.29	3	Vertical	164	1.50
2437MHz	Pass	AV	7.31024G	53.97	54.00	-0.03	3	Vertical	150	2.24
2437MHz	Pass	PK	4.87406G	48.85	74.00	-25.15	3	Vertical	164	1.50
2437MHz	Pass	PK	7.30944G	60.31	74.00	-13.69	3	Vertical	150	2.24
2437MHz	Pass	AV	4.874G	39.71	54.00	-14.29	3	Horizontal	68	2.03
2437MHz	Pass	AV	7.31022G	45.30	54.00	-8.70	3	Horizontal	25	1.50
2437MHz	Pass	PK	4.87394G	49.36	74.00	-24.64	3	Horizontal	68	2.03
2437MHz	Pass	PK	7.3101G	55.29	74.00	-18.71	3	Horizontal	25	1.50
2457MHz	Pass	AV	2.4562G	88.81	Inf	-Inf	3	Vertical	143	1.84
2457MHz	Pass	AV	2.4886G	49.14	54.00	-4.86	3	Vertical	143	1.84
2457MHz	Pass	PK	2.456G	91.43	Inf	-Inf	3	Vertical	143	1.84
2457MHz	Pass	PK	2.495G	61.46	74.00	-12.54	3	Vertical	143	1.84
2457MHz	Pass	AV	2.4562G	97.62	Inf	-Inf	3	Horizontal	16	1.32
2457MHz	Pass	AV	2.4886G	49.14	54.00	-4.86	3	Horizontal	16	1.32
2457MHz	Pass	PK	2.456G	100.05	Inf	-Inf	3	Horizontal	16	1.32
2457MHz	Pass	PK	2.493G	62.22	74.00	-11.78	3	Horizontal	16	1.32
2457MHz	Pass	AV	4.914G	45.86	54.00	-8.14	3	Vertical	119	1.21
2457MHz	Pass	AV	7.37024G	53.81	54.00	-0.19	3	Vertical	158	2.13
2457MHz	Pass	PK	4.91412G	51.79	74.00	-22.21	3	Vertical	119	1.21
2457MHz	Pass	PK	7.37176G	59.71	74.00	-14.29	3	Vertical	158	2.13

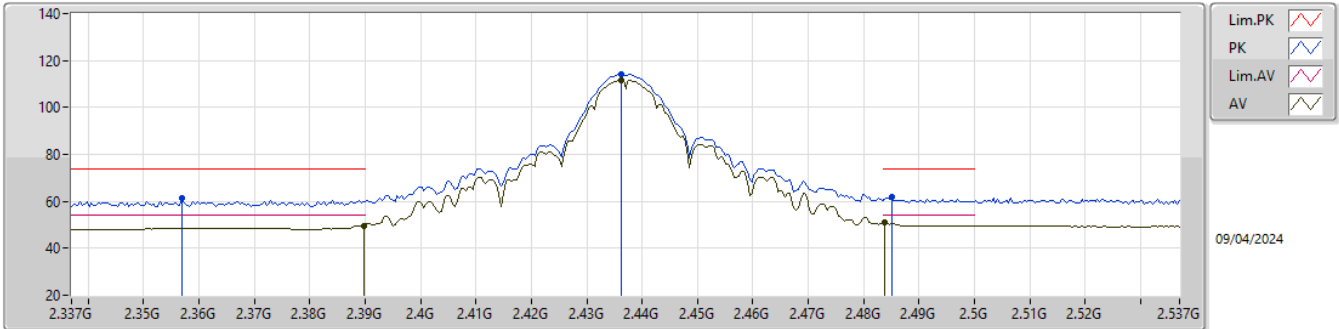
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2457MHz	Pass	AV	4.914G	43.11	54.00	-10.89	3	Horizontal	67	1.04
2457MHz	Pass	AV	7.37176G	49.82	54.00	-4.18	3	Horizontal	190	1.71
2457MHz	Pass	PK	4.9136G	50.33	74.00	-23.67	3	Horizontal	67	1.04
2457MHz	Pass	PK	7.37252G	57.31	74.00	-16.69	3	Horizontal	190	1.71
2462MHz	Pass	AV	2.4612G	107.55	Inf	-Inf	3	Vertical	143	1.73
2462MHz	Pass	AV	2.4835G	53.48	54.00	-0.52	3	Vertical	143	1.73
2462MHz	Pass	PK	2.461G	109.97	Inf	-Inf	3	Vertical	143	1.73
2462MHz	Pass	PK	2.485G	62.78	74.00	-11.22	3	Vertical	143	1.73
2462MHz	Pass	AV	2.4612G	98.29	Inf	-Inf	3	Horizontal	19	1.39
2462MHz	Pass	AV	2.4835G	49.88	54.00	-4.12	3	Horizontal	19	1.39
2462MHz	Pass	PK	2.461G	100.71	Inf	-Inf	3	Horizontal	19	1.39
2462MHz	Pass	PK	2.4888G	61.54	74.00	-12.46	3	Horizontal	19	1.39
2462MHz	Pass	AV	4.92404G	46.30	54.00	-7.70	3	Vertical	118	1.02
2462MHz	Pass	AV	7.3852G	53.26	54.00	-0.74	3	Vertical	142	1.42
2462MHz	Pass	PK	4.92396G	52.33	74.00	-21.67	3	Vertical	118	1.02
2462MHz	Pass	PK	7.38492G	59.54	74.00	-14.46	3	Vertical	142	1.42
2462MHz	Pass	AV	4.92404G	43.47	54.00	-10.53	3	Horizontal	68	1.07
2462MHz	Pass	AV	7.38516G	43.44	54.00	-10.56	3	Horizontal	0	1.50
2462MHz	Pass	PK	4.92412G	51.01	74.00	-22.99	3	Horizontal	68	1.07
2462MHz	Pass	PK	7.38388G	54.75	74.00	-19.25	3	Horizontal	0	1.50
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	53.76	54.00	-0.24	3	Vertical	144	2.09
2412MHz	Pass	AV	2.4112G	104.30	Inf	-Inf	3	Vertical	144	2.09
2412MHz	Pass	PK	2.39G	71.63	74.00	-2.37	3	Vertical	144	2.09
2412MHz	Pass	PK	2.4126G	112.56	Inf	-Inf	3	Vertical	144	2.09
2412MHz	Pass	AV	2.39G	49.96	54.00	-4.04	3	Horizontal	200	2.02
2412MHz	Pass	AV	2.4112G	95.50	Inf	-Inf	3	Horizontal	200	2.02
2412MHz	Pass	PK	2.39G	64.61	74.00	-9.39	3	Horizontal	200	2.02
2412MHz	Pass	PK	2.4126G	103.70	Inf	-Inf	3	Horizontal	200	2.02
2412MHz	Pass	AV	4.8266G	36.49	54.00	-17.51	3	Vertical	151	1.08
2412MHz	Pass	PK	4.82372G	48.59	74.00	-25.41	3	Vertical	151	1.08
2412MHz	Pass	AV	4.82652G	36.42	54.00	-17.58	3	Horizontal	80	2.71
2412MHz	Pass	PK	4.82332G	47.73	74.00	-26.27	3	Horizontal	80	2.71
2417MHz	Pass	AV	2.3896G	53.76	54.00	-0.24	3	Vertical	145	1.82
2417MHz	Pass	AV	2.4176G	105.58	Inf	-Inf	3	Vertical	145	1.82
2417MHz	Pass	PK	2.389G	67.60	74.00	-6.40	3	Vertical	145	1.82
2417MHz	Pass	PK	2.4176G	113.97	Inf	-Inf	3	Vertical	145	1.82
2417MHz	Pass	AV	2.3898G	49.51	54.00	-4.49	3	Horizontal	201	2.70
2417MHz	Pass	AV	2.4176G	96.54	Inf	-Inf	3	Horizontal	201	2.70
2417MHz	Pass	PK	2.3886G	61.78	74.00	-12.22	3	Horizontal	201	2.70
2417MHz	Pass	PK	2.4176G	104.95	Inf	-Inf	3	Horizontal	201	2.70
2417MHz	Pass	AV	4.8316G	37.03	54.00	-16.97	3	Vertical	154	1.00
2417MHz	Pass	AV	7.2528G	51.86	54.00	-2.14	3	Vertical	159	1.89
2417MHz	Pass	PK	4.8348G	48.78	74.00	-25.22	3	Vertical	154	1.00
2417MHz	Pass	PK	7.25416G	64.36	74.00	-9.64	3	Vertical	159	1.89
2417MHz	Pass	AV	4.83304G	36.26	54.00	-17.74	3	Horizontal	88	2.00
2417MHz	Pass	AV	7.25248G	46.83	54.00	-7.17	3	Horizontal	190	1.50
2417MHz	Pass	PK	4.83432G	48.76	74.00	-25.24	3	Horizontal	88	2.00
2417MHz	Pass	PK	7.25256G	59.95	74.00	-14.05	3	Horizontal	190	1.50
2437MHz	Pass	AV	2.3898G	50.17	54.00	-3.83	3	Vertical	141	2.06
2437MHz	Pass	AV	2.4362G	107.56	Inf	-Inf	3	Vertical	141	2.06
2437MHz	Pass	AV	2.4846G	50.83	54.00	-3.17	3	Vertical	141	2.06
2437MHz	Pass	PK	2.3866G	61.91	74.00	-12.09	3	Vertical	141	2.06
2437MHz	Pass	PK	2.4374G	115.76	Inf	-Inf	3	Vertical	141	2.06
2437MHz	Pass	PK	2.4846G	61.83	74.00	-12.17	3	Vertical	141	2.06
2437MHz	Pass	AV	2.3898G	49.04	54.00	-4.96	3	Horizontal	190	2.10
2437MHz	Pass	AV	2.4362G	99.51	Inf	-Inf	3	Horizontal	190	2.10
2437MHz	Pass	AV	2.489G	49.91	54.00	-4.09	3	Horizontal	190	2.10
2437MHz	Pass	PK	2.3378G	60.48	74.00	-13.52	3	Horizontal	190	2.10
2437MHz	Pass	PK	2.4374G	107.62	Inf	-Inf	3	Horizontal	190	2.10
2437MHz	Pass	PK	2.4866G	61.78	74.00	-12.22	3	Horizontal	190	2.10
2437MHz	Pass	AV	4.86976G	38.44	54.00	-15.56	3	Vertical	142	1.35

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2437MHz	Pass	AV	7.30816G	53.58	54.00	-0.42	3	Vertical	154	2.24
2437MHz	Pass	PK	4.87052G	49.56	74.00	-24.44	3	Vertical	142	1.35
2437MHz	Pass	PK	7.30484G	66.26	74.00	-7.74	3	Vertical	154	2.24
2437MHz	Pass	AV	4.88192G	36.02	54.00	-17.98	3	Horizontal	35	1.85
2437MHz	Pass	AV	7.30816G	47.66	54.00	-6.34	3	Horizontal	192	1.47
2437MHz	Pass	PK	4.88068G	47.65	74.00	-26.35	3	Horizontal	35	1.85
2437MHz	Pass	PK	7.30484G	60.90	74.00	-13.10	3	Horizontal	192	1.47
2457MHz	Pass	AV	2.4564G	104.80	Inf	-Inf	3	Vertical	146	1.57
2457MHz	Pass	AV	2.484G	53.65	54.00	-0.35	3	Vertical	146	1.57
2457MHz	Pass	PK	2.4576G	112.99	Inf	-Inf	3	Vertical	146	1.57
2457MHz	Pass	PK	2.4835G	66.38	74.00	-7.62	3	Vertical	146	1.57
2457MHz	Pass	AV	2.4562G	96.89	Inf	-Inf	3	Horizontal	202	2.01
2457MHz	Pass	AV	2.486G	50.38	54.00	-3.62	3	Horizontal	202	2.01
2457MHz	Pass	PK	2.4576G	104.96	Inf	-Inf	3	Horizontal	202	2.01
2457MHz	Pass	PK	2.484G	61.95	74.00	-12.05	3	Horizontal	202	2.01
2457MHz	Pass	AV	4.91384G	39.06	54.00	-14.94	3	Vertical	120	1.20
2457MHz	Pass	AV	7.36908G	48.03	54.00	-5.97	3	Vertical	142	1.30
2457MHz	Pass	PK	4.91304G	51.91	74.00	-22.09	3	Vertical	120	1.20
2457MHz	Pass	PK	7.37404G	60.57	74.00	-13.43	3	Vertical	142	1.30
2457MHz	Pass	AV	4.9138G	37.67	54.00	-16.33	3	Horizontal	67	1.03
2457MHz	Pass	AV	7.37264G	46.31	54.00	-7.69	3	Horizontal	192	1.44
2457MHz	Pass	PK	4.9162G	50.35	74.00	-23.65	3	Horizontal	67	1.03
2457MHz	Pass	PK	7.37408G	58.67	74.00	-15.33	3	Horizontal	192	1.44
2462MHz	Pass	AV	2.4612G	103.58	Inf	-Inf	3	Vertical	144	1.74
2462MHz	Pass	AV	2.4835G	53.64	54.00	-0.36	3	Vertical	144	1.74
2462MHz	Pass	PK	2.4626G	111.87	Inf	-Inf	3	Vertical	144	1.74
2462MHz	Pass	PK	2.4836G	70.23	74.00	-3.77	3	Vertical	144	1.74
2462MHz	Pass	AV	2.4612G	94.18	Inf	-Inf	3	Horizontal	9	1.36
2462MHz	Pass	AV	2.4835G	50.36	54.00	-3.64	3	Horizontal	9	1.36
2462MHz	Pass	PK	2.4626G	102.42	Inf	-Inf	3	Horizontal	9	1.36
2462MHz	Pass	PK	2.4836G	62.12	74.00	-11.88	3	Horizontal	9	1.36
2462MHz	Pass	AV	4.92392G	37.52	54.00	-16.48	3	Vertical	88	1.25
2462MHz	Pass	AV	7.38668G	45.47	54.00	-8.53	3	Vertical	142	1.40
2462MHz	Pass	PK	4.92512G	50.98	74.00	-23.02	3	Vertical	88	1.25
2462MHz	Pass	PK	7.38968G	58.87	74.00	-15.13	3	Vertical	142	1.40
2462MHz	Pass	AV	4.9184G	36.07	54.00	-17.93	3	Horizontal	187	1.22
2462MHz	Pass	AV	7.38396G	43.50	54.00	-10.50	3	Horizontal	192	1.37
2462MHz	Pass	PK	4.91704G	47.74	74.00	-26.26	3	Horizontal	187	1.22
2462MHz	Pass	PK	7.38968G	56.13	74.00	-17.87	3	Horizontal	192	1.37
802.11n HT20_Nss1.(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	53.90	54.00	-0.10	3	Vertical	138	2.11
2412MHz	Pass	AV	2.4112G	103.02	Inf	-Inf	3	Vertical	138	2.11
2412MHz	Pass	PK	2.3896G	70.58	74.00	-3.42	3	Vertical	138	2.11
2412MHz	Pass	PK	2.4106G	111.48	Inf	-Inf	3	Vertical	138	2.11
2412MHz	Pass	AV	2.39G	49.74	54.00	-4.26	3	Horizontal	201	2.01
2412MHz	Pass	AV	2.4112G	94.33	Inf	-Inf	3	Horizontal	201	2.01
2412MHz	Pass	PK	2.39G	62.33	74.00	-11.67	3	Horizontal	201	2.01
2412MHz	Pass	PK	2.41G	103.17	Inf	-Inf	3	Horizontal	201	2.01
2412MHz	Pass	AV	4.8244G	36.78	54.00	-17.22	3	Vertical	120	1.08
2412MHz	Pass	PK	4.81648G	48.81	74.00	-25.19	3	Vertical	120	1.08
2412MHz	Pass	AV	4.8242G	36.72	54.00	-17.28	3	Horizontal	211	2.67
2412MHz	Pass	PK	4.82168G	48.00	74.00	-26.00	3	Horizontal	211	2.67
2417MHz	Pass	AV	2.39G	53.03	54.00	-0.97	3	Vertical	143	1.81
2417MHz	Pass	AV	2.4178G	105.05	Inf	-Inf	3	Vertical	143	1.81
2417MHz	Pass	PK	2.3876G	67.70	74.00	-6.30	3	Vertical	143	1.81
2417MHz	Pass	PK	2.4184G	113.56	Inf	-Inf	3	Vertical	143	1.81
2417MHz	Pass	AV	2.3898G	50.17	54.00	-3.83	3	Horizontal	192	2.73
2417MHz	Pass	AV	2.418G	98.31	Inf	-Inf	3	Horizontal	192	2.73
2417MHz	Pass	PK	2.3862G	62.42	74.00	-11.58	3	Horizontal	192	2.73
2417MHz	Pass	PK	2.419G	107.26	Inf	-Inf	3	Horizontal	192	2.73
2417MHz	Pass	AV	4.8322G	35.68	54.00	-18.32	3	Vertical	281	1.23
2417MHz	Pass	AV	7.251G	49.62	54.00	-4.38	3	Vertical	326	2.14

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2417MHz	Pass	PK	4.83658G	48.11	74.00	-25.89	3	Vertical	281	1.23
2417MHz	Pass	PK	7.25046G	64.68	74.00	-9.32	3	Vertical	326	2.14
2417MHz	Pass	AV	4.83262G	35.57	54.00	-18.43	3	Horizontal	249	2.30
2417MHz	Pass	AV	7.25112G	44.19	54.00	-9.81	3	Horizontal	6	1.16
2417MHz	Pass	PK	4.83946G	47.38	74.00	-26.62	3	Horizontal	249	2.30
2417MHz	Pass	PK	7.25028G	57.76	74.00	-16.24	3	Horizontal	6	1.16
2437MHz	Pass	AV	2.3898G	50.58	54.00	-3.42	3	Vertical	142	2.06
2437MHz	Pass	AV	2.4362G	107.41	Inf	-Inf	3	Vertical	142	2.06
2437MHz	Pass	AV	2.4838G	51.25	54.00	-2.75	3	Vertical	142	2.06
2437MHz	Pass	PK	2.3898G	62.01	74.00	-11.99	3	Vertical	142	2.06
2437MHz	Pass	PK	2.4358G	115.60	Inf	-Inf	3	Vertical	142	2.06
2437MHz	Pass	PK	2.4846G	62.72	74.00	-11.28	3	Vertical	142	2.06
2437MHz	Pass	AV	2.3898G	49.04	54.00	-4.96	3	Horizontal	191	2.57
2437MHz	Pass	AV	2.4362G	100.31	Inf	-Inf	3	Horizontal	191	2.57
2437MHz	Pass	AV	2.4898G	49.92	54.00	-4.08	3	Horizontal	191	2.57
2437MHz	Pass	PK	2.3742G	60.72	74.00	-13.28	3	Horizontal	191	2.57
2437MHz	Pass	PK	2.4386G	108.75	Inf	-Inf	3	Horizontal	191	2.57
2437MHz	Pass	PK	2.4866G	61.06	74.00	-12.94	3	Horizontal	191	2.57
2437MHz	Pass	AV	4.87352G	38.93	54.00	-15.07	3	Vertical	119	1.01
2437MHz	Pass	AV	7.3088G	53.91	54.00	-0.09	3	Vertical	154	2.25
2437MHz	Pass	PK	4.87288G	52.27	74.00	-21.73	3	Vertical	119	1.01
2437MHz	Pass	PK	7.31044G	67.13	74.00	-6.87	3	Vertical	154	2.25
2437MHz	Pass	AV	4.86808G	37.95	54.00	-16.05	3	Horizontal	70	2.06
2437MHz	Pass	AV	7.31128G	46.30	54.00	-7.70	3	Horizontal	193	1.50
2437MHz	Pass	PK	4.878G	49.62	74.00	-24.38	3	Horizontal	70	2.06
2437MHz	Pass	PK	7.30928G	59.29	74.00	-14.71	3	Horizontal	193	1.50
2457MHz	Pass	AV	2.4564G	104.74	Inf	-Inf	3	Vertical	144	1.98
2457MHz	Pass	AV	2.4836G	53.31	54.00	-0.69	3	Vertical	144	1.98
2457MHz	Pass	PK	2.4572G	113.40	Inf	-Inf	3	Vertical	144	1.98
2457MHz	Pass	PK	2.484G	69.07	74.00	-4.93	3	Vertical	144	1.98
2457MHz	Pass	AV	2.4562G	97.34	Inf	-Inf	3	Horizontal	194	2.61
2457MHz	Pass	AV	2.4842G	50.60	54.00	-3.40	3	Horizontal	194	2.61
2457MHz	Pass	PK	2.4584G	105.71	Inf	-Inf	3	Horizontal	194	2.61
2457MHz	Pass	PK	2.4846G	62.32	74.00	-11.68	3	Horizontal	194	2.61
2457MHz	Pass	AV	4.91286G	37.44	54.00	-16.56	3	Vertical	277	1.13
2457MHz	Pass	AV	7.3689G	47.14	54.00	-6.86	3	Vertical	325	2.07
2457MHz	Pass	PK	4.91676G	50.33	74.00	-23.67	3	Vertical	277	1.13
2457MHz	Pass	PK	7.36938G	60.65	74.00	-13.35	3	Vertical	325	2.07
2457MHz	Pass	AV	4.91622G	36.75	54.00	-17.25	3	Horizontal	266	1.04
2457MHz	Pass	AV	7.3698G	42.65	54.00	-11.35	3	Horizontal	10	1.06
2457MHz	Pass	PK	4.91472G	49.49	74.00	-24.51	3	Horizontal	266	1.04
2457MHz	Pass	PK	7.3701G	56.81	74.00	-17.19	3	Horizontal	10	1.06
2462MHz	Pass	AV	2.4614G	102.63	Inf	-Inf	3	Vertical	137	1.77
2462MHz	Pass	AV	2.4835G	53.80	54.00	-0.20	3	Vertical	137	1.77
2462MHz	Pass	PK	2.462G	110.95	Inf	-Inf	3	Vertical	137	1.77
2462MHz	Pass	PK	2.484G	72.26	74.00	-1.74	3	Vertical	137	1.77
2462MHz	Pass	AV	2.4614G	94.09	Inf	-Inf	3	Horizontal	8	1.24
2462MHz	Pass	AV	2.484G	50.60	54.00	-3.40	3	Horizontal	8	1.24
2462MHz	Pass	PK	2.4612G	103.20	Inf	-Inf	3	Horizontal	8	1.24
2462MHz	Pass	PK	2.4842G	64.07	74.00	-9.93	3	Horizontal	8	1.24
2462MHz	Pass	AV	4.924G	37.45	54.00	-16.55	3	Vertical	88	1.22
2462MHz	Pass	AV	7.38492G	46.74	54.00	-7.26	3	Vertical	159	2.05
2462MHz	Pass	PK	4.92156G	50.90	74.00	-23.10	3	Vertical	88	1.22
2462MHz	Pass	PK	7.38492G	60.73	74.00	-13.27	3	Vertical	159	2.05
2462MHz	Pass	AV	4.9234G	36.75	54.00	-17.25	3	Horizontal	68	1.14
2462MHz	Pass	AV	7.383G	44.59	54.00	-9.41	3	Horizontal	191	2.21
2462MHz	Pass	PK	4.92904G	48.79	74.00	-25.21	3	Horizontal	68	1.14
2462MHz	Pass	PK	7.38324G	57.99	74.00	-16.01	3	Horizontal	191	2.21

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

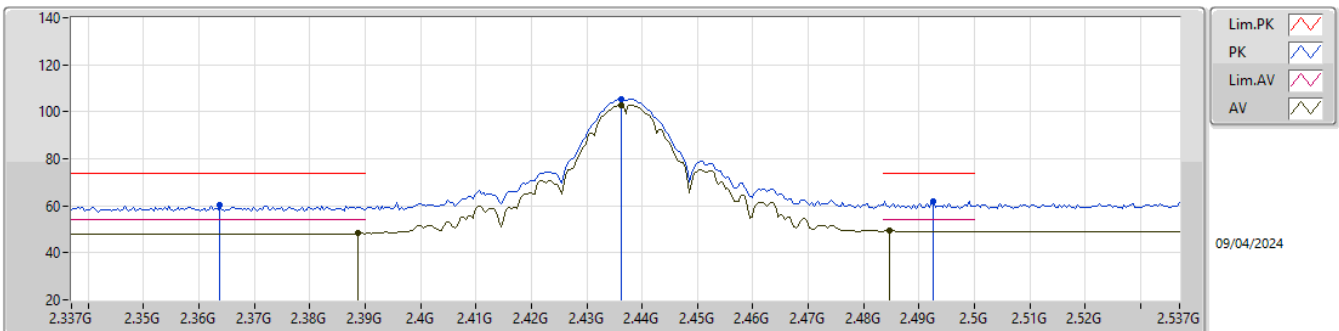
2437MHz_TX



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)
AV	2.3898G	49.73	54.00	-4.27	32.60	3	Vertical	143	2.04	17.13	27.20	5.40	-
AV	2.4362G	111.77	Inf	-Inf	33.02	3	Vertical	143	2.04	78.75	27.56	5.46	-
AV	2.4838G	50.81	54.00	-3.19	33.25	3	Vertical	143	2.04	17.56	27.74	5.51	-
PK	2.357G	61.22	74.00	-12.78	32.54	3	Vertical	143	2.04	28.68	27.17	5.37	-
PK	2.4362G	114.22	Inf	-Inf	33.02	3	Vertical	143	2.04	81.20	27.56	5.46	-
PK	2.485G	61.64	74.00	-12.36	33.27	3	Vertical	143	2.04	28.37	27.75	5.52	-

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

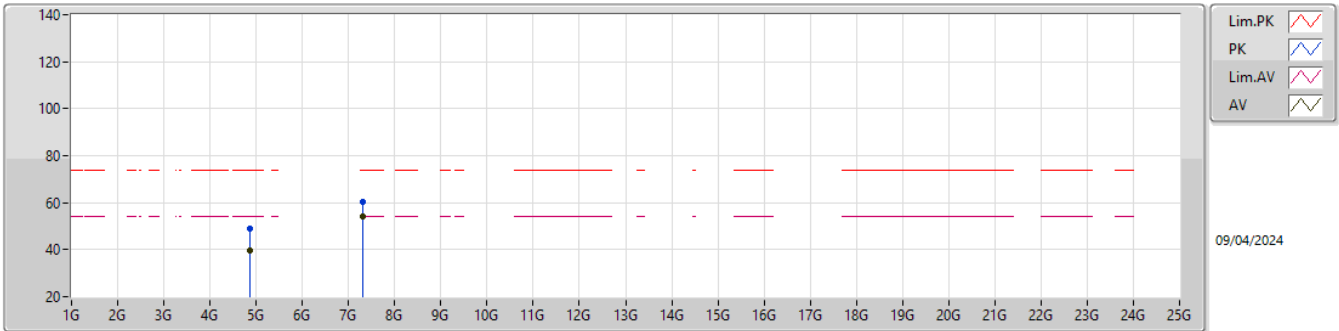
2437MHz_TX



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)
AV	2.3886G	48.27	54.00	-5.73	32.59	3	Horizontal	16	1.10	15.68	27.19	5.40	-
AV	2.4362G	102.95	Inf	-Inf	33.02	3	Horizontal	16	1.10	69.93	27.56	5.46	-
AV	2.4846G	49.38	54.00	-4.62	33.27	3	Horizontal	16	1.10	16.11	27.75	5.52	-
PK	2.3638G	60.32	74.00	-13.68	32.58	3	Horizontal	16	1.10	27.74	27.20	5.38	-
PK	2.4362G	105.36	Inf	-Inf	33.02	3	Horizontal	16	1.10	72.34	27.56	5.46	-
PK	2.4926G	62.04	74.00	-11.96	33.33	3	Horizontal	16	1.10	28.71	27.80	5.53	-

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

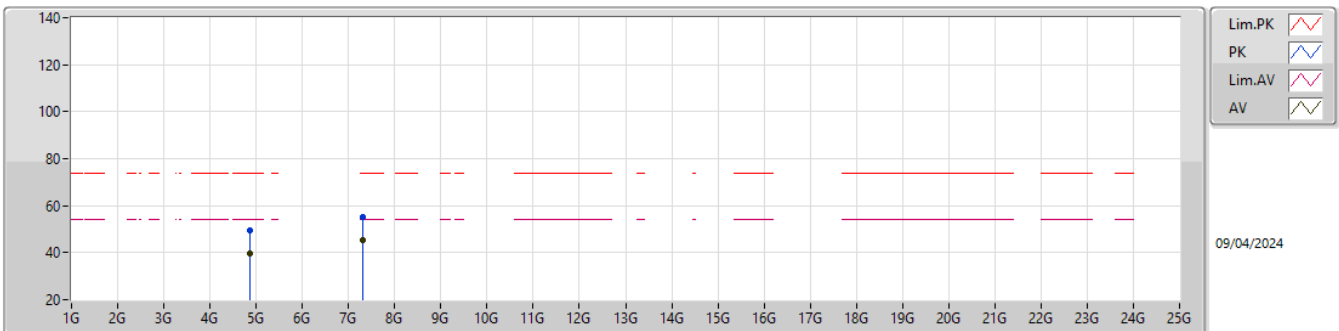
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87394G	39.71	54.00	-14.29	6.40	3	Vertical	164	1.50	33.31	32.44	7.97	34.01
AV	7.31024G	53.97	54.00	-0.03	11.88	3	Vertical	150	2.24	42.09	36.68	9.54	34.34
PK	4.87406G	48.85	74.00	-25.15	6.40	3	Vertical	164	1.50	42.45	32.44	7.97	34.01
PK	7.30944G	60.31	74.00	-13.69	11.88	3	Vertical	150	2.24	48.43	36.68	9.54	34.34

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

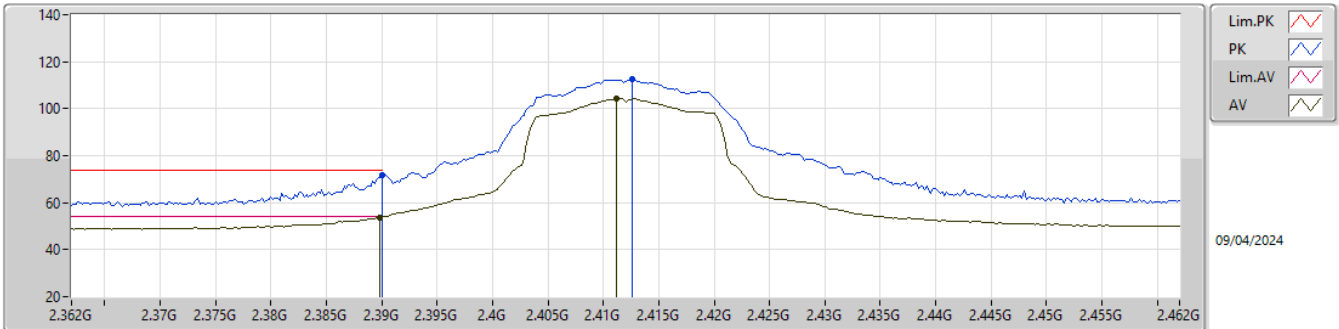
2437MHz_TX



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)
AV	4.874G	39.71	54.00	-14.29	6.40	3	Horizontal	68	2.03	33.31	32.44	7.97	34.01
AV	7.31022G	45.30	54.00	-8.70	11.88	3	Horizontal	25	1.50	33.42	36.68	9.54	34.34
PK	4.87394G	49.36	74.00	-24.64	6.40	3	Horizontal	68	2.03	42.96	32.44	7.97	34.01
PK	7.3101G	55.29	74.00	-18.71	11.88	3	Horizontal	25	1.50	43.41	36.68	9.54	34.34

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

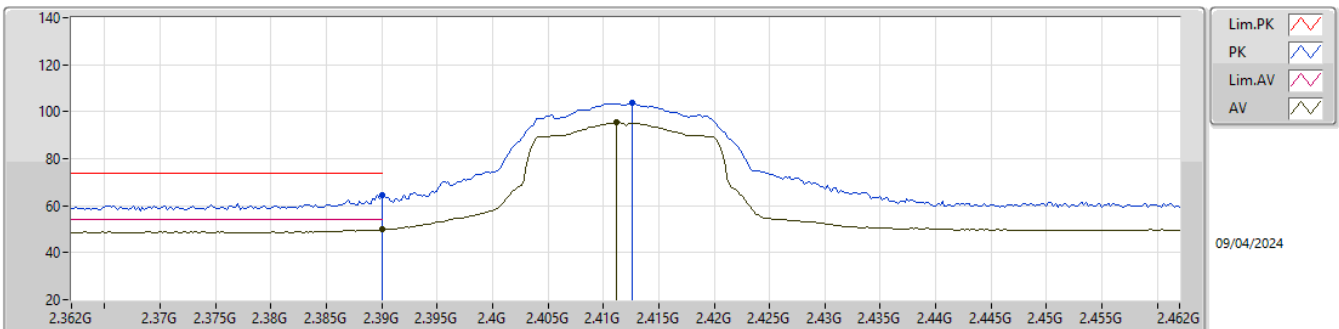
2412MHz_TX



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	53.76	54.00	-0.24	32.60	3	Vertical	144	2.09	21.16	27.20	5.40	-
AV	2.4112G	104.30	Inf	-Inf	32.82	3	Vertical	144	2.09	71.48	27.40	5.42	-
PK	2.39G	71.63	74.00	-2.37	32.60	3	Vertical	144	2.09	39.03	27.20	5.40	-
PK	2.4126G	112.56	Inf	-Inf	32.83	3	Vertical	144	2.09	79.73	27.40	5.43	-

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

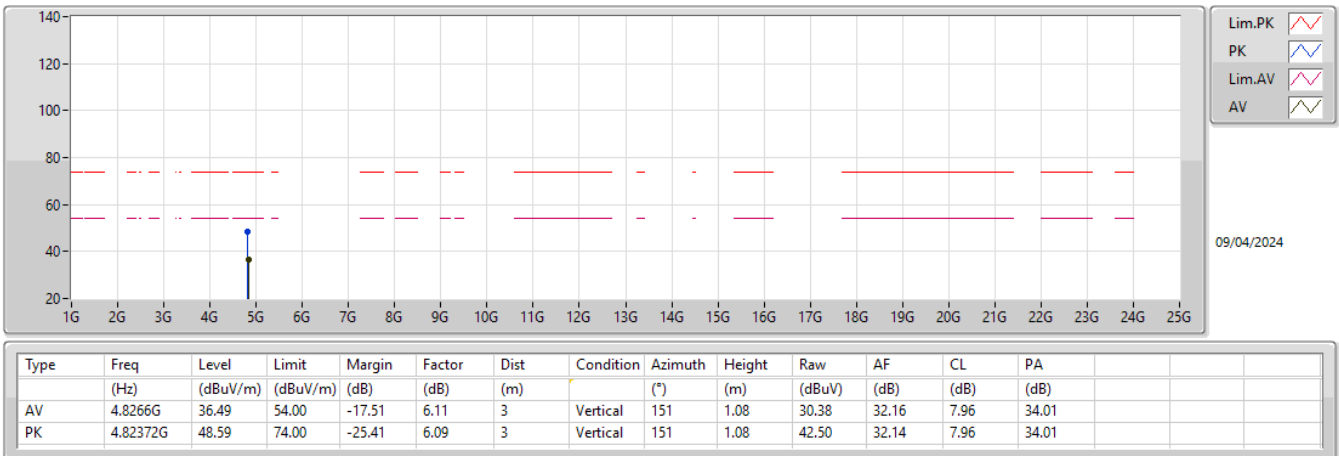
2412MHz_TX



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	2.39G	49.96	54.00	-4.04	32.60	3	Horizontal	200	2.02	17.36	27.20	5.40	-
AV	2.4112G	95.50	Inf	-Inf	32.82	3	Horizontal	200	2.02	62.68	27.40	5.42	-
PK	2.39G	64.61	74.00	-9.39	32.60	3	Horizontal	200	2.02	32.01	27.20	5.40	-
PK	2.4126G	103.70	Inf	-Inf	32.83	3	Horizontal	200	2.02	70.87	27.40	5.43	-

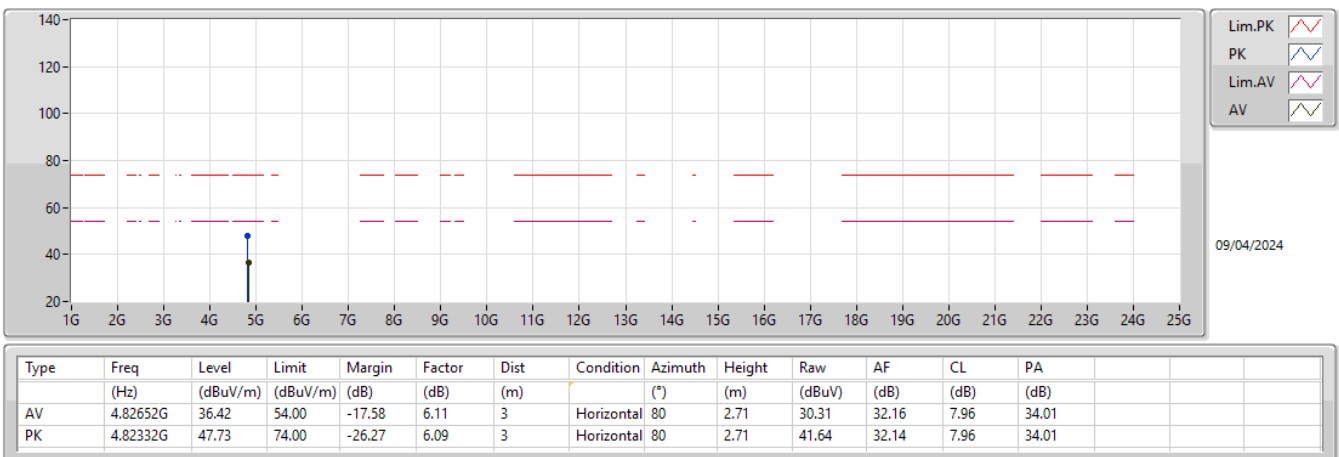
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



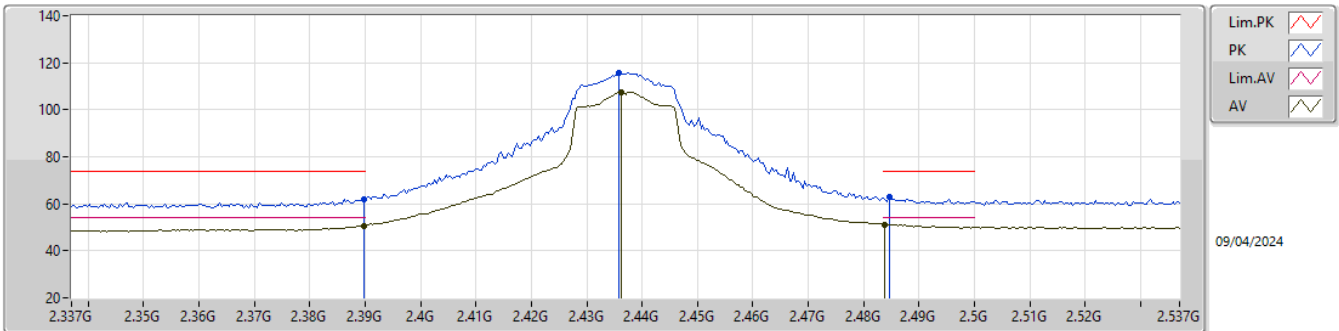
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



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

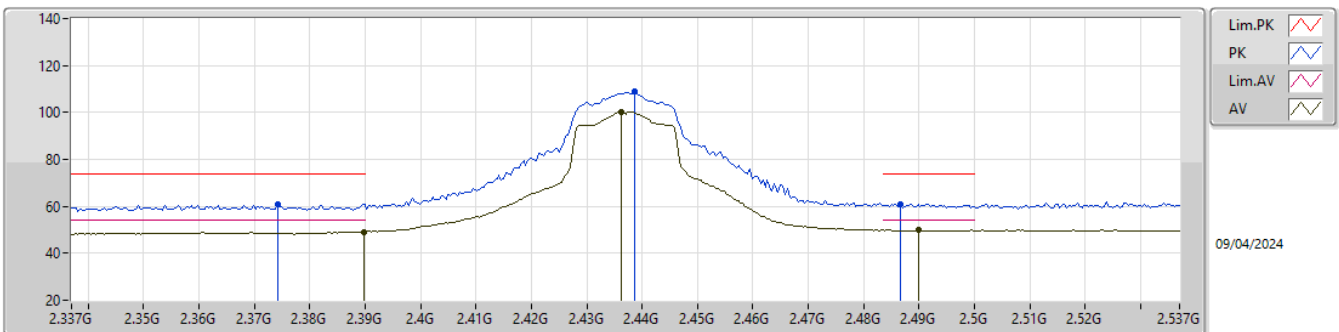
2437MHz_TX



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)
AV	2.3898G	50.58	54.00	-3.42	32.60	3	Vertical	142	2.06	17.98	27.20	5.40	-
AV	2.4362G	107.41	Inf	-Inf	33.02	3	Vertical	142	2.06	74.39	27.56	5.46	-
AV	2.4838G	51.25	54.00	-2.75	33.25	3	Vertical	142	2.06	18.00	27.74	5.51	-
PK	2.3898G	62.01	74.00	-11.99	32.60	3	Vertical	142	2.06	29.41	27.20	5.40	-
PK	2.4358G	115.60	Inf	-Inf	33.01	3	Vertical	142	2.06	82.59	27.56	5.45	-
PK	2.4846G	62.72	74.00	-11.28	33.27	3	Vertical	142	2.06	29.45	27.75	5.52	-

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

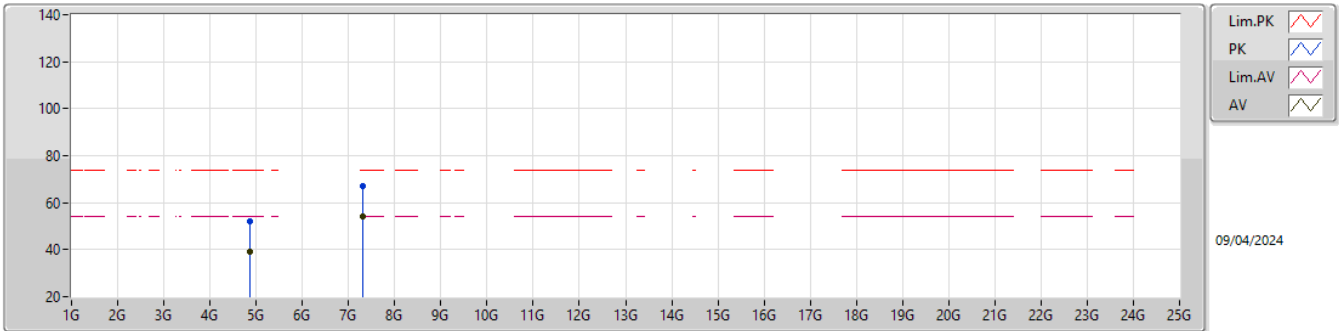
2437MHz_TX



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)
AV	2.3898G	49.04	54.00	-4.96	32.60	3	Horizontal	191	2.57	16.44	27.20	5.40	-
AV	2.4362G	100.31	Inf	-Inf	33.02	3	Horizontal	191	2.57	67.29	27.56	5.46	-
AV	2.4898G	49.92	54.00	-4.08	33.32	3	Horizontal	191	2.57	16.60	27.80	5.52	-
PK	2.3742G	60.72	74.00	-13.28	32.55	3	Horizontal	191	2.57	28.17	27.16	5.39	-
PK	2.4386G	108.75	Inf	-Inf	33.05	3	Horizontal	191	2.57	75.70	27.59	5.46	-
PK	2.4866G	61.06	74.00	-12.94	33.29	3	Horizontal	191	2.57	27.77	27.77	5.52	-

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

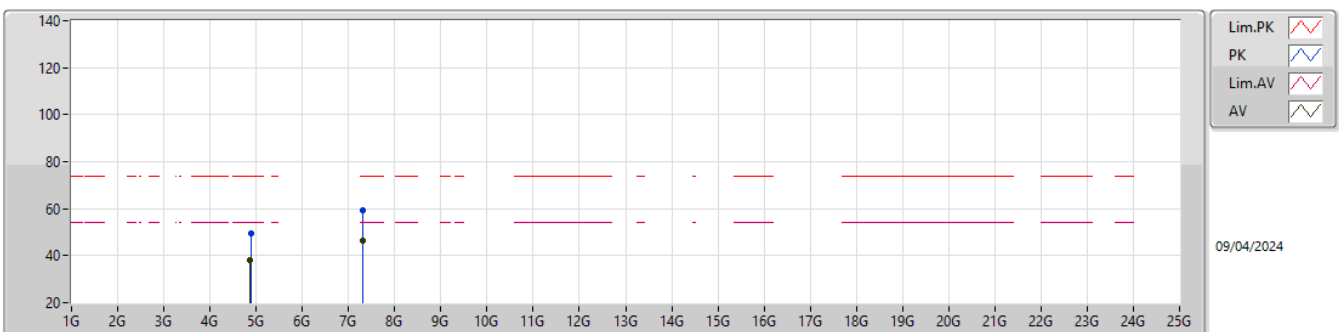
2437MHz_TX



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)
AV	4.87352G	38.93	54.00	-15.07	6.40	3	Vertical	119	1.01	32.53	32.44	7.97	34.01
AV	7.3088G	53.91	54.00	-0.09	11.88	3	Vertical	154	2.25	42.03	36.68	9.54	34.34
PK	4.87288G	52.27	74.00	-21.73	6.40	3	Vertical	119	1.01	45.87	32.44	7.97	34.01
PK	7.31044G	67.13	74.00	-6.87	11.88	3	Vertical	154	2.25	55.25	36.68	9.54	34.34

2.4-2.4835GHz_802.11n_HT20_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)
AV	4.86808G	37.95	54.00	-16.05	6.37	3	Horizontal	70	2.06	31.58	32.41	7.97	34.01
AV	7.31128G	46.30	54.00	-7.70	11.88	3	Horizontal	193	1.50	34.42	36.68	9.54	34.34
PK	4.878G	49.62	74.00	-24.38	6.44	3	Horizontal	70	2.06	43.18	32.47	7.97	34.00
PK	7.30928G	59.29	74.00	-14.71	11.88	3	Horizontal	193	1.50	47.41	36.68	9.54	34.34