FCC Radio Test Report

FCC ID	:	**2AIBX-NIULL**
Equipment	:	**NIUL**
Brand Name	:	**Electrolux**
Model Name	:	**NIU-LIGHT, NIUS**
Applicant/ Manufacturer	:	**Electrolux Italia S.p.A. Corso Lino Zanussi 24 / 33080 Porcia (PN), Italy**
Factory	:	**LITE-ON Technology (Changzhou) CO.LTD A9 Building,No.88 Yanghu Road, Wujin Hi-Tech Industrial Development Zone ,Changzhou City, Jiangsu Province 213100 China**
Standard	:	**47 CFR FCC Part 15.247**

The product was received on Feb. 22, 2022, and testing was started from Mar. 10, 2022 and completed on Mar. 30, 2022. 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 variant 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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PHOTOGRAPHS OF EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FR161601-01AC	01	Initial issue of report	Apr. 12, 2022

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: Jenny Yang

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	Gain (dBi)
1	LITEON	WN3602M	Printed Antenna	Murata	-0.9

Note 1: The EUT has one antenna.

For 2.4GHz function:

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

Ant. 1 can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From DC Power supply			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☐	With beamforming	☒	Without beamforming

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_1TX	0.55	2.6	4.531m	300
802.11g_Nss1,(6Mbps)_1TX	0.423	3.74	2.113m	1k
802.11n HT20_Nss1,(MCS0)_1TX	0.394	4.05	1.969m	1k

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

1.1.5 Table for Multiple Listing

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

EUT No.	Model Name	Voltage	IC (temperature)	Flash
1	NIU-LIGHT	3.3V	0℃ / +70℃	16M (2 Mbyte)
2		5V		
3	NIUS	3.3V	-30℃ / 85℃	32M (4 Mbyte)
4		5V		

Note.1: The test voltage 3.3V and 5V configuration was pretested and 3.3V was found to be the worst case for conducted test.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR161601AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. The Model Name: NIUS was added 2. For the new model NIUS, test temperature was changed from 0°C ~ + 70°C to -30°C ~ + 85°C, Flash (32M) was added	All

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	Daniel Lin	20.1~22.9°C / 51~60%	10/Mar/2022
RF Conducted	TH06-HY	Alan Chien	21.6~24.8°C / 54~60%	22/Mar/2022~30/Mar/2022
Radiated (Above 1G)	03CH02-HY	Lego Lin	25.6~26.9°C / 58~60%	28/Mar/2022~29/Mar/2022
Radiated (Below 1G)	03CH03-HY	Billy Wang	22.4~23.5°C / 55~60%	14/Mar/2022
☐ 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**
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 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	Dos 6.1

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	17
2417MHz	17
2437MHz	19
2462MHz	19
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	11
2417MHz	14
2437MHz	26
2457MHz	19
2462MHz	15
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	11
2417MHz	14
2437MHz	26
2457MHz	18
2462MHz	14

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	Test fixture 3.3V Mode for NIUS
2	Test fixture 5V Mode for NIUS

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	Test fixture 3.3V Mode for NIUS		
2	Test fixture 5V Mode for NIUS		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
Worst Planes of EUT	V		

2.3 Support Equipment

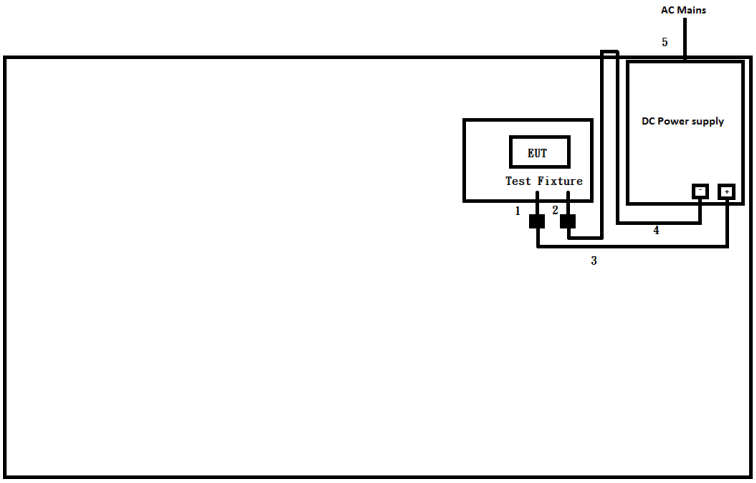
Support Equipment – AC Conduction					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	DC Power Supply	GW	GPS-3030DD	-	-
2	Test fixture	LITEON	WN3602M EVB	-	Provided by Customer
3	Test Fixture cablex4	LITEON	003	-	Provided by Customer
4	DC power cable(+)	LITEON	001	-	Provided by Customer
5	DC power cable(-)	LITEON	002	-	Provided by Customer
6	DC power cable(+)	MiSUMi	WTN1229-BLACK	-	-
7	DC power cable(-)	MiSUMi	WTN1229-RED	-	-
8	AC power cable	Power sync	PW-GPC180-3	-	-

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-
4	Test fixture	LITEON	WN3602M EVB	-	Provided by Customer
5	Test Fixture cablex4	LITEON	003	-	Provided by Customer
6	DC power cable(+)	LITEON	001	-	Provided by Customer
7	DC power cable(-)	LITEON	002	-	Provided by Customer
8	DC power cable(+)	MiSUMi	WTN1229-BLACK	-	-
9	DC power cable(-)	MiSUMi	WTN1229-RED	-	-

Support Equipment – Radiated					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	DC Power Supply	GW	GPS-3030DD	-	-
2	Test fixture	LITEON	WN3602M EVB	-	Provided by Customer
3	Test Fixture cablex4	LITEON	003	-	Provided by Customer
4	DC power cable(+)	LITEON	001	-	Provided by Customer
5	DC power cable(-)	LITEON	002	-	Provided by Customer
6	DC power cable(+)	MiSUMi	WTN1229-BLACK	-	-
7	DC power cable(-)	MiSUMi	WTN1229-RED	-	-

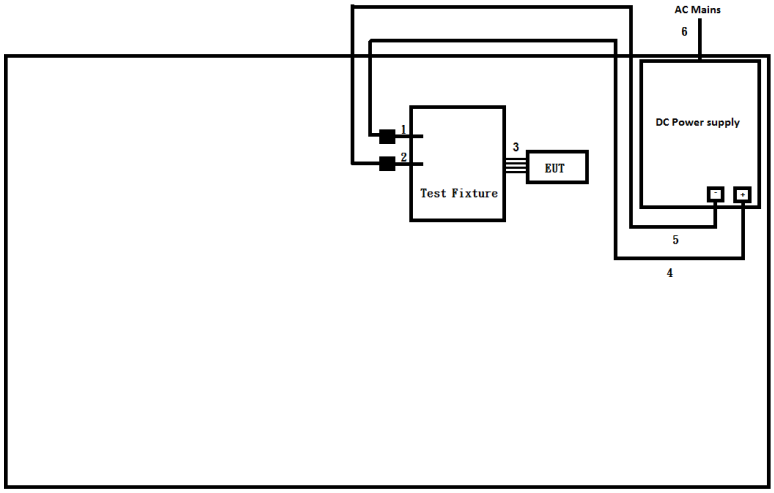
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (3.3V)



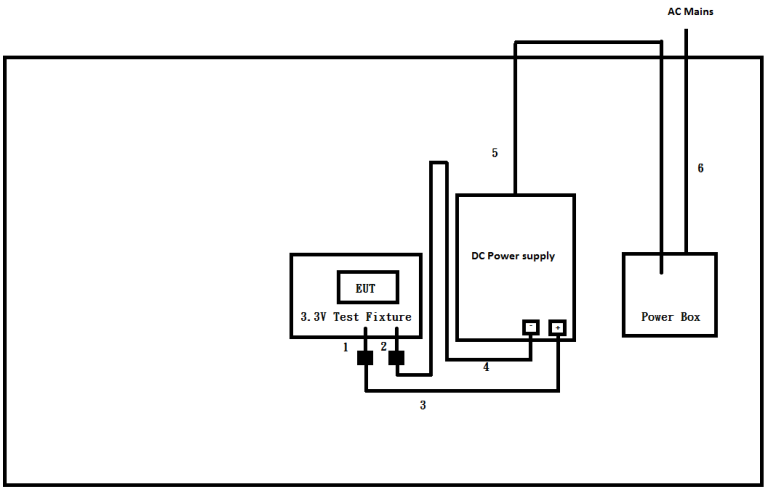
Item	Connection	Shielded	Length(m)	Remark
1	DC Power cable(+)	No	0.1	-
2	DC Power cable(-)	No	0.1	-
3	DC Power cable(+)	No	1.0	-
4	DC Power cable(-)	No	1.0	-
5	AC Power cable	No	1.8	-

Test Setup Diagram – AC Line Conducted Emission Test (5V)



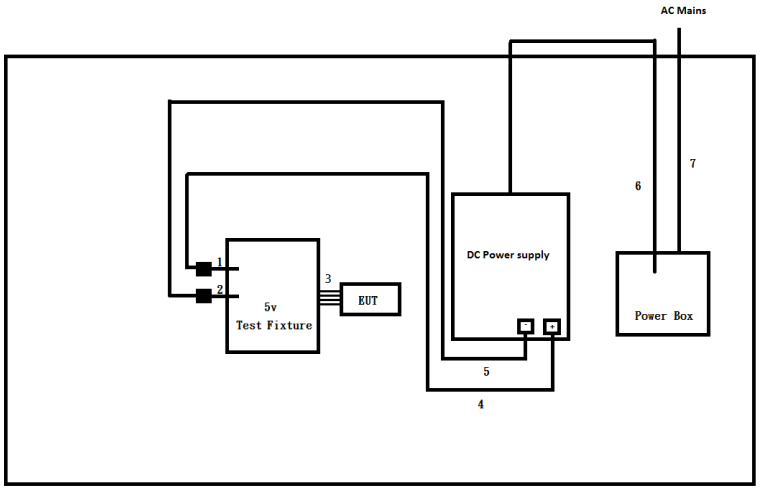
Item	Connection	Shielded	Length(m)	Remark
1	DC Power cable(+)	No	0.1	-
2	DC Power cable(-)	No	0.1	-
3	Test Fixture cable x4	No	0.1	-
4	DC Power cable(+)	No	1.0	-
5	DC Power cable(-)	No	1.0	-
6	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (3.3V)



Item	Connection	Shielded	Length(m)	Remark
1	DC Power cable(+)	No	0.1	-
2	DC Power cable(-)	No	0.1	-
3	DC Power cable(+)	No	1.0	-
4	DC Power cable(-)	No	1.0	-
5	AC Power cable	No	1.8	-
6	AC Power cable	No	1.8	-

Test Setup Diagram - Radiated Test (5V)



Item	Connection	Shielded	Length(m)	Remark
1	DC Power cable(+)	No	0.1	-
2	DC Power cable(-)	No	0.1	-
3	Test Fixture cable x4	No	0.1	-
4	DC Power cable(+)	No	1.0	-
5	DC Power cable(-)	No	1.0	-
6	AC Power cable	No	1.8	-
7	AC Power cable	No	1.8	

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

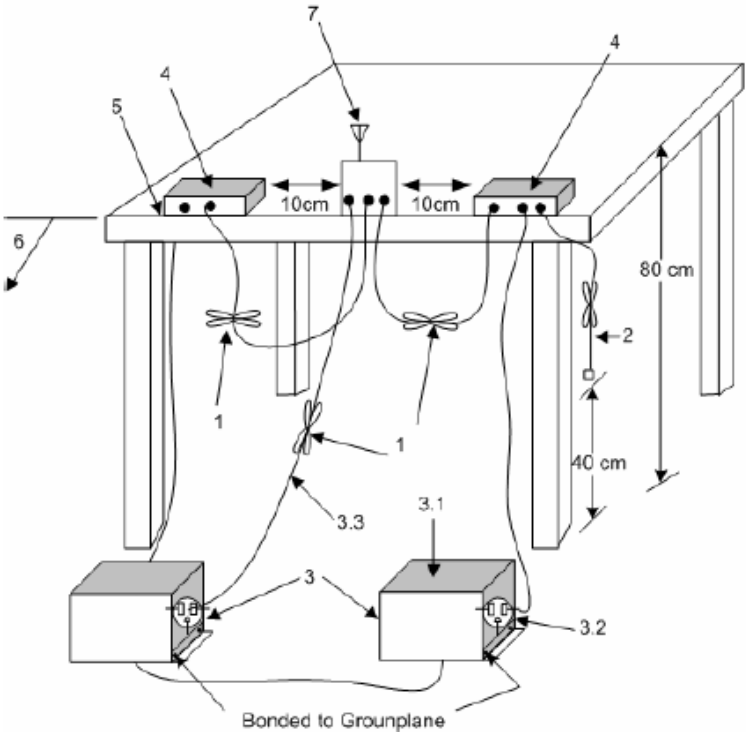
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

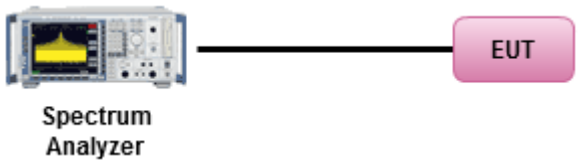
3.2.2 Measuring Instruments

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

Emission Bandwidth


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): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ 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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)

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

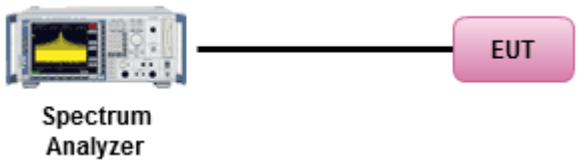
3.4.2 Measuring Instruments

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

Power Spectral Density


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

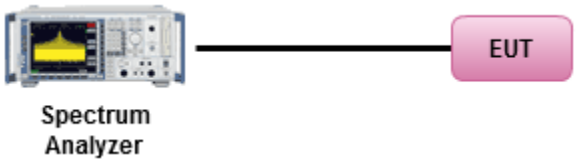
Refer a test equipment and calibration data table in this test report.

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

Emissions in Non-restricted Frequency Bands



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.

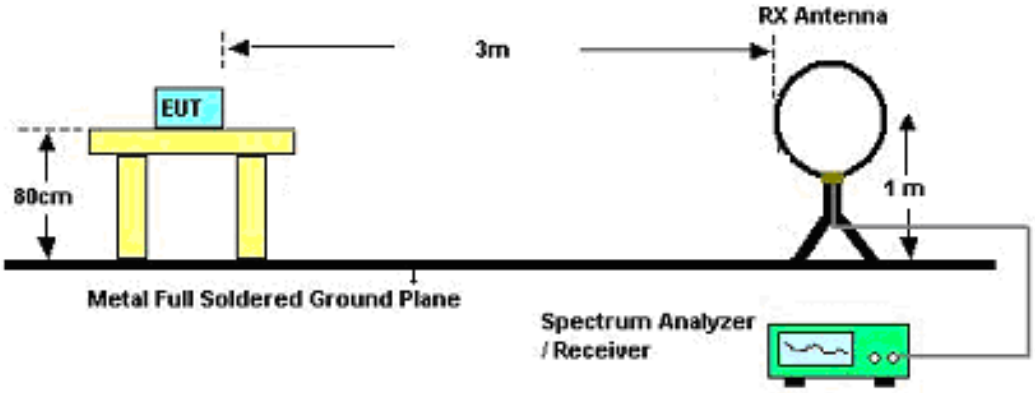
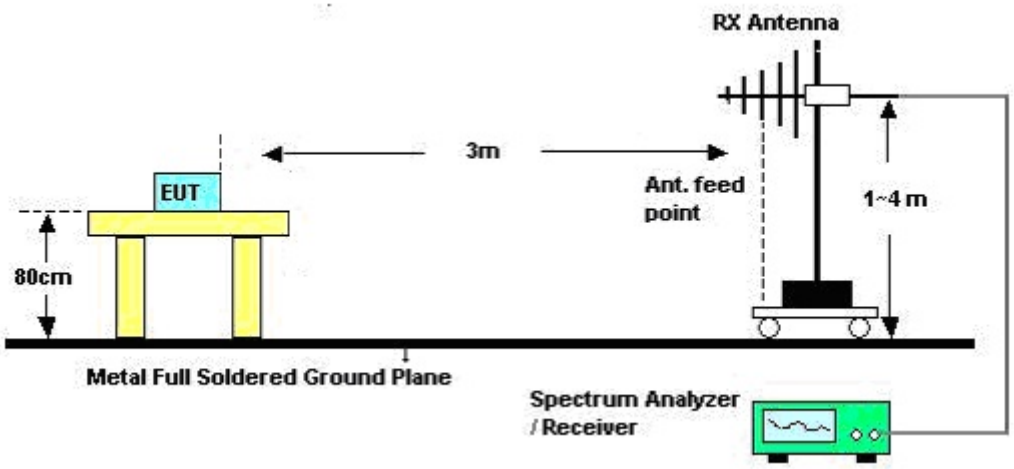
3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 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 ≥ 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.

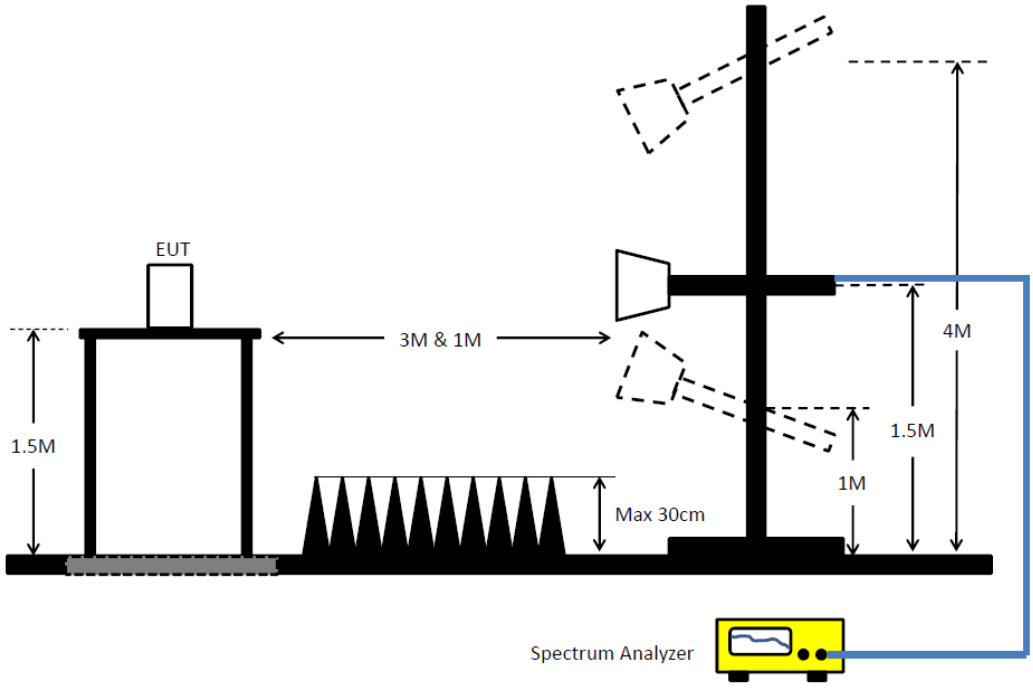
3.6.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

3.6.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



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	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	12/Jan/2022	11/Jan/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.7.14	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	20/Oct/2021	19/Oct/2022
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	21/Feb/2022	20/Feb/2023
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	21/Feb/2022	20/Feb/2023
SENSE-15247_DTS	Sporton	V5.10.7.13	N/A	N/A	N/A	N/A

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable-R03m	HUBER+ SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	60604	18GHz ~ 40GHz	08/Mar/2022	07/Mar/2023
SENSE-15247_DTS. exe	Sporton	V5.10.7.14	NA	NA	NA	NA

Instrument for Radiated Test (03CH03-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz~1GHz 3m	03/Aug/2021	02/Aug/2022
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	12/Oct/2021	11/Oct/2022
Amplifier	HP	8447D	2944A08033	10kHz~1.3GHz	13/Apr/2021	12/Apr/2022
Bilog Antenna & 6dB Attenuator	SCHAFFNER / EMCI	CBL6112B / N-6-05	22237 / AT-N-0603	30MHz~1GHz	17/Oct/2021	16/Oct/2022
RF Cable-R03m	Jye Bao	RG142	MY37335/4+CB021-1+CB021-2	30MHz~1GHz	17/Mar/2021	16/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
SENSE-15247_DTS.exe	Sporton	V5.10.7.14	NA	NA	NA	NA
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022

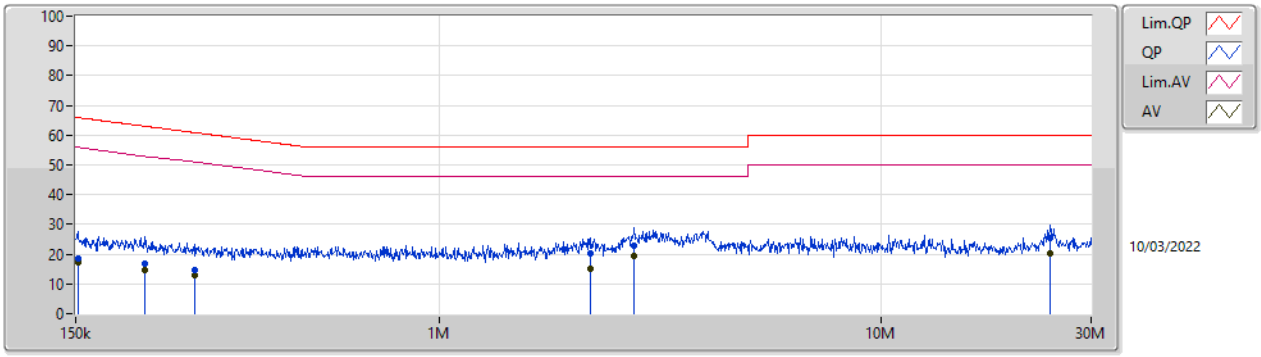
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	2.765M	19.20	46.00	-26.80	Line
Mode 2	Pass	AV	2.889M	18.42	46.00	-27.58	Neutral

Result

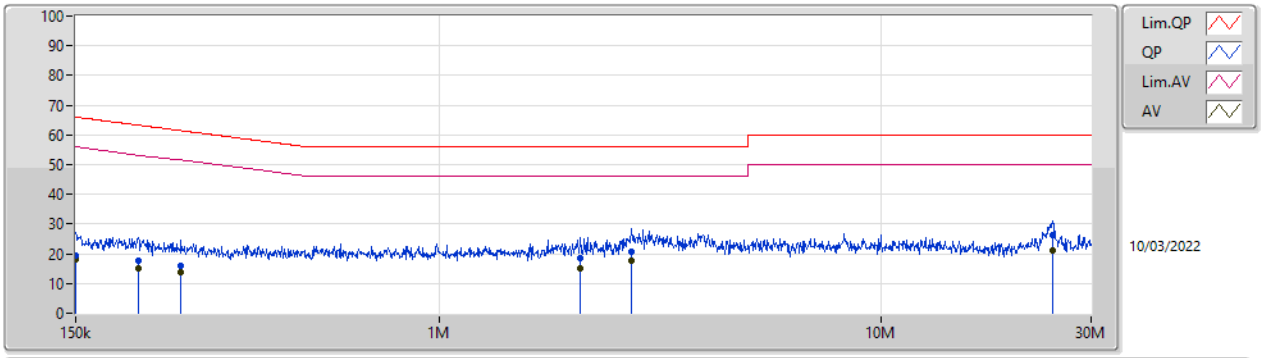
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	151.807k	18.75	65.90	-47.15	Line	-
Mode 1	Pass	AV	151.807k	17.45	55.90	-38.45	Line	-
Mode 1	Pass	QP	215.704k	16.94	62.98	-46.04	Line	-
Mode 1	Pass	AV	215.704k	14.72	52.98	-38.26	Line	-
Mode 1	Pass	QP	279.609k	14.63	60.82	-46.19	Line	-
Mode 1	Pass	AV	279.609k	12.96	50.82	-37.86	Line	-
Mode 1	Pass	QP	2.194M	20.24	56.00	-35.76	Line	-
Mode 1	Pass	AV	2.194M	15.17	46.00	-30.83	Line	-
Mode 1	Pass	QP	2.765M	22.89	56.00	-33.11	Line	-
Mode 1	Pass	AV	2.765M	19.20	46.00	-26.80	Line	-
Mode 1	Pass	QP	24.257M	25.43	60.00	-34.57	Line	-
Mode 1	Pass	AV	24.257M	20.36	50.00	-29.64	Line	-
Mode 1	Pass	QP	150k	19.39	66.00	-46.61	Neutral	-
Mode 1	Pass	AV	150k	18.14	56.00	-37.86	Neutral	-
Mode 1	Pass	QP	208.092k	17.59	63.28	-45.69	Neutral	-
Mode 1	Pass	AV	208.092k	15.18	53.28	-38.10	Neutral	-
Mode 1	Pass	QP	260.222k	15.84	61.43	-45.59	Neutral	-
Mode 1	Pass	AV	260.222k	13.75	51.43	-37.68	Neutral	-
Mode 1	Pass	QP	2.091M	18.75	56.00	-37.25	Neutral	-
Mode 1	Pass	AV	2.091M	14.88	46.00	-31.12	Neutral	-
Mode 1	Pass	QP	2.732M	20.84	56.00	-35.16	Neutral	-
Mode 1	Pass	AV	2.732M	17.79	46.00	-28.21	Neutral	-
Mode 1	Pass	QP	24.549M	26.47	60.00	-33.53	Neutral	-
Mode 1	Pass	AV	24.549M	21.19	50.00	-28.81	Neutral	-
Mode 2	Pass	QP	150.6k	18.78	65.96	-47.18	Line	-
Mode 2	Pass	AV	150.6k	17.75	55.96	-38.21	Line	-
Mode 2	Pass	QP	185.344k	16.53	64.24	-47.71	Line	-
Mode 2	Pass	AV	185.344k	14.75	54.24	-39.49	Line	-
Mode 2	Pass	QP	307.723k	13.74	60.03	-46.29	Line	-
Mode 2	Pass	AV	307.723k	12.41	50.03	-37.62	Line	-
Mode 2	Pass	QP	2.211M	18.67	56.00	-37.33	Line	-
Mode 2	Pass	AV	2.211M	14.70	46.00	-31.30	Line	-
Mode 2	Pass	QP	3.976M	21.28	56.00	-34.72	Line	-
Mode 2	Pass	AV	3.976M	18.09	46.00	-27.91	Line	-
Mode 2	Pass	QP	24.549M	25.60	60.00	-34.40	Line	-
Mode 2	Pass	AV	24.549M	20.71	50.00	-29.29	Line	-
Mode 2	Pass	QP	150k	18.40	66.00	-47.60	Neutral	-
Mode 2	Pass	AV	150k	17.81	56.00	-38.19	Neutral	-
Mode 2	Pass	QP	266.53k	14.87	61.22	-46.35	Neutral	-
Mode 2	Pass	AV	266.53k	13.27	51.22	-37.95	Neutral	-
Mode 2	Pass	QP	365.35k	13.60	58.60	-45.00	Neutral	-
Mode 2	Pass	AV	365.35k	12.25	48.60	-36.35	Neutral	-
Mode 2	Pass	QP	1.036M	13.47	56.00	-42.53	Neutral	-
Mode 2	Pass	AV	1.036M	11.97	46.00	-34.03	Neutral	-
Mode 2	Pass	QP	2.889M	21.87	56.00	-34.13	Neutral	-
Mode 2	Pass	AV	2.889M	18.42	46.00	-27.58	Neutral	-
Mode 2	Pass	QP	23.968M	26.61	60.00	-33.39	Neutral	-
Mode 2	Pass	AV	23.968M	22.03	50.00	-27.97	Neutral	-

Conducted Emissions at Powerline_Mode 1



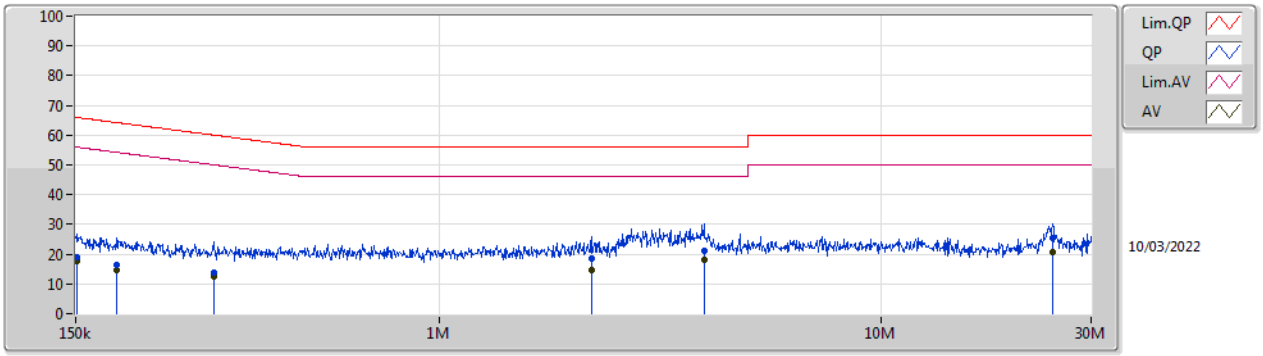
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.807k	18.75	65.90	-47.15	19.54	Line	-	-0.79	9.60	0.03	9.91
AV	151.807k	17.45	55.90	-38.45	19.54	Line	-	-2.09	9.60	0.03	9.91
QP	215.704k	16.94	62.98	-46.04	19.55	Line	-	-2.61	9.61	0.03	9.91
AV	215.704k	14.72	52.98	-38.26	19.55	Line	-	-4.83	9.61	0.03	9.91
QP	279.609k	14.63	60.82	-46.19	19.55	Line	-	-4.92	9.61	0.03	9.91
AV	279.609k	12.96	50.82	-37.86	19.55	Line	-	-6.59	9.61	0.03	9.91
QP	2.194M	20.24	56.00	-35.76	19.63	Line	-	0.61	9.62	0.09	9.92
AV	2.194M	15.17	46.00	-30.83	19.63	Line	-	-4.46	9.62	0.09	9.92
QP	2.765M	22.89	56.00	-33.11	19.64	Line	-	3.25	9.62	0.10	9.92
AV	2.765M	19.20	46.00	-26.80	19.64	Line	-	-0.44	9.62	0.10	9.92
QP	24.257M	25.43	60.00	-34.57	19.75	Line	-	5.68	9.52	0.30	9.93
AV	24.257M	20.36	50.00	-29.64	19.75	Line	-	0.61	9.52	0.30	9.93

Conducted Emissions at Powerline_Mode 1



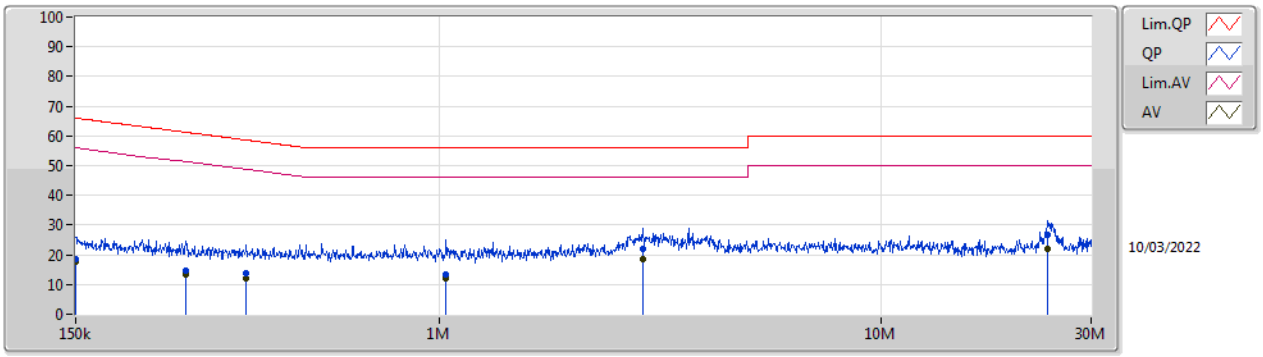
Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	19.39	66.00	-46.61	19.53	Neutral	-	-0.14	9.59	0.03	9.91
AV	150k	18.14	56.00	-37.86	19.53	Neutral	-	-1.39	9.59	0.03	9.91
QP	208.092k	17.59	63.28	-45.69	19.53	Neutral	-	-1.94	9.59	0.03	9.91
AV	208.092k	15.18	53.28	-38.10	19.53	Neutral	-	-4.35	9.59	0.03	9.91
QP	260.222k	15.84	61.43	-45.59	19.53	Neutral	-	-3.69	9.59	0.03	9.91
AV	260.222k	13.75	51.43	-37.68	19.53	Neutral	-	-5.78	9.59	0.03	9.91
QP	2.091M	18.75	56.00	-37.25	19.60	Neutral	-	-0.85	9.60	0.08	9.92
AV	2.091M	14.88	46.00	-31.12	19.60	Neutral	-	-4.72	9.60	0.08	9.92
QP	2.732M	20.84	56.00	-35.16	19.62	Neutral	-	1.22	9.60	0.10	9.92
AV	2.732M	17.79	46.00	-28.21	19.62	Neutral	-	-1.83	9.60	0.10	9.92
QP	24.549M	26.47	60.00	-33.53	19.90	Neutral	-	6.57	9.66	0.31	9.93
AV	24.549M	21.19	50.00	-28.81	19.90	Neutral	-	1.29	9.66	0.31	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150.6k	18.78	65.96	-47.18	19.54	Line	-	-0.76	9.60	0.03	9.91
AV	150.6k	17.75	55.96	-38.21	19.54	Line	-	-1.79	9.60	0.03	9.91
QP	185.344k	16.53	64.24	-47.71	19.55	Line	-	-3.02	9.61	0.03	9.91
AV	185.344k	14.75	54.24	-39.49	19.55	Line	-	-4.80	9.61	0.03	9.91
QP	307.723k	13.74	60.03	-46.29	19.55	Line	-	-5.81	9.60	0.04	9.91
AV	307.723k	12.41	50.03	-37.62	19.55	Line	-	-7.14	9.60	0.04	9.91
QP	2.211M	18.67	56.00	-37.33	19.63	Line	-	-0.96	9.62	0.09	9.92
AV	2.211M	14.70	46.00	-31.30	19.63	Line	-	-4.93	9.62	0.09	9.92
QP	3.976M	21.28	56.00	-34.72	19.68	Line	-	1.60	9.63	0.13	9.92
AV	3.976M	18.09	46.00	-27.91	19.68	Line	-	-1.59	9.63	0.13	9.92
QP	24.549M	25.60	60.00	-34.40	19.76	Line	-	5.84	9.52	0.31	9.93
AV	24.549M	20.71	50.00	-29.29	19.76	Line	-	0.95	9.52	0.31	9.93

Conducted Emissions at Powerline_Mode 2



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	18.40	66.00	-47.60	19.53	Neutral	-	-1.13	9.59	0.03	9.91
AV	150k	17.81	56.00	-38.19	19.53	Neutral	-	-1.72	9.59	0.03	9.91
QP	266.53k	14.87	61.22	-46.35	19.53	Neutral	-	-4.66	9.59	0.03	9.91
AV	266.53k	13.27	51.22	-37.95	19.53	Neutral	-	-6.26	9.59	0.03	9.91
QP	365.35k	13.60	58.60	-45.00	19.53	Neutral	-	-5.93	9.58	0.04	9.91
AV	365.35k	12.25	48.60	-36.35	19.53	Neutral	-	-7.28	9.58	0.04	9.91
QP	1.036M	13.47	56.00	-42.53	19.56	Neutral	-	-6.09	9.59	0.05	9.92
AV	1.036M	11.97	46.00	-34.03	19.56	Neutral	-	-7.59	9.59	0.05	9.92
QP	2.889M	21.87	56.00	-34.13	19.64	Neutral	-	2.23	9.61	0.11	9.92
AV	2.889M	18.42	46.00	-27.58	19.64	Neutral	-	-1.22	9.61	0.11	9.92
QP	23.968M	26.61	60.00	-33.39	19.89	Neutral	-	6.72	9.66	0.30	9.93
AV	23.968M	22.03	50.00	-27.97	19.89	Neutral	-	2.14	9.66	0.30	9.93

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	10.1M	14.368M	14M4G1D	10.05M	13.843M
802.11g_Nss1,(6Mbps)_1TX	16.35M	25.737M	25M7D1D	16.3M	16.567M
802.11n HT20_Nss1,(MCS0)_1TX	17.6M	26.287M	26M3D1D	17.55M	17.816M

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

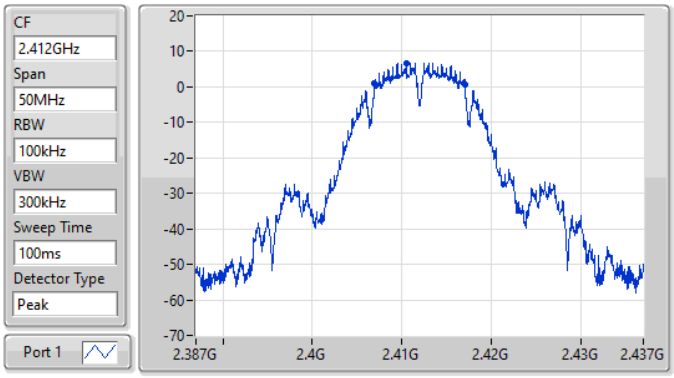
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.1M	13.843M
2437MHz	Pass	500k	10.05M	14.368M
2462MHz	Pass	500k	10.05M	14.368M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.567M
2437MHz	Pass	500k	16.3M	25.737M
2462MHz	Pass	500k	16.35M	16.667M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.6M	17.816M
2437MHz	Pass	500k	17.55M	26.287M
2462MHz	Pass	500k	17.55M	17.816M

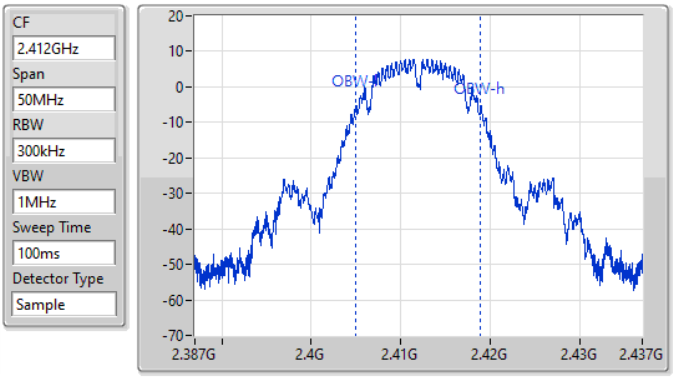
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_1TX EBW

2412MHz

22/03/2022



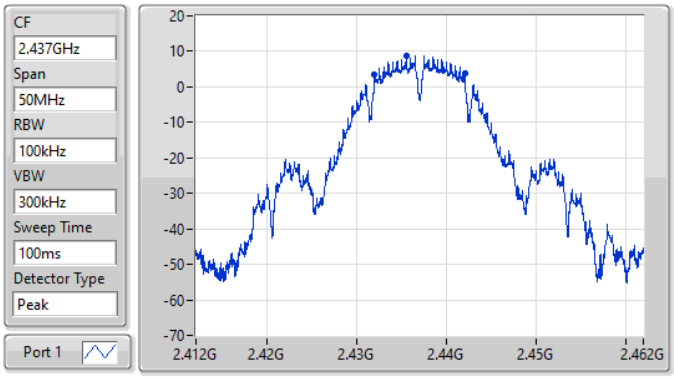


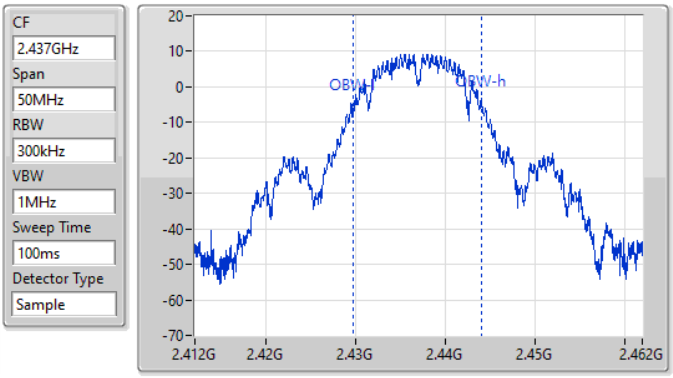
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.1M	2.40695G	2.41705G	13.843M	2.405003G	2.418847G	500k	1

802.11b_Nss1,(1Mbps)_1TX EBW

2437MHz

22/03/2022



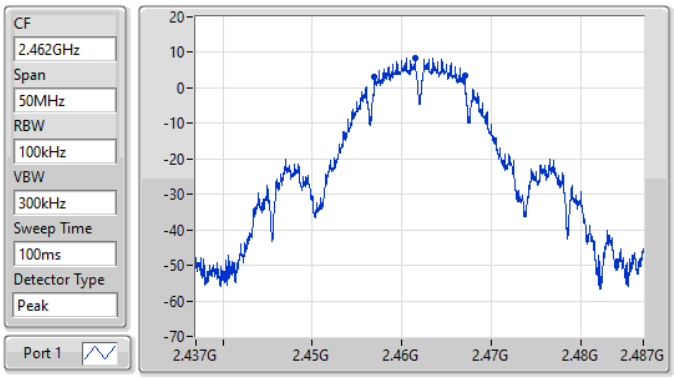


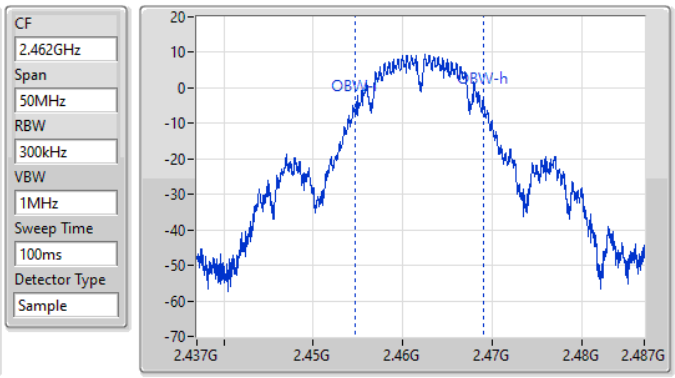
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.431975G	2.442025G	14.368M	2.429704G	2.444071G	500k	1

802.11b_Nss1,(1Mbps)_1TX EBW

2462MHz

22/03/2022



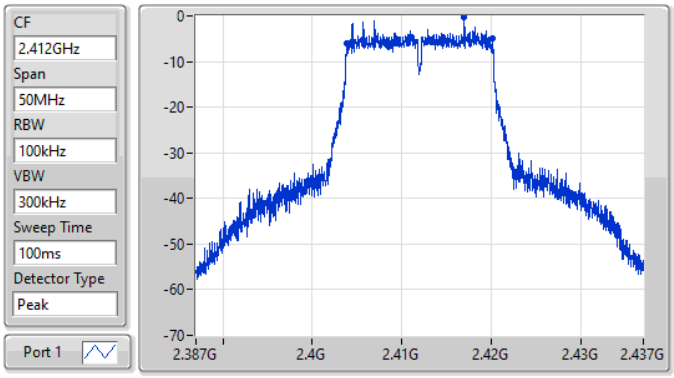


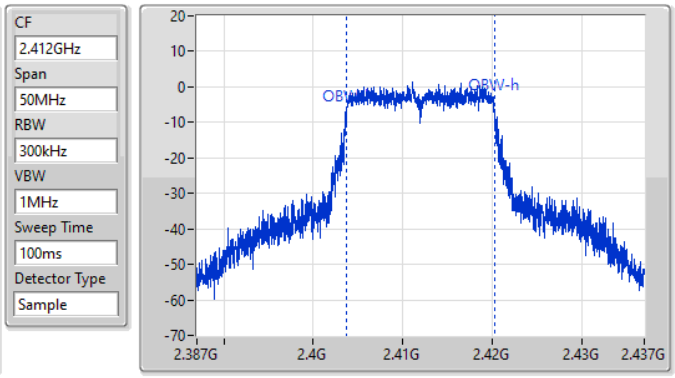
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.456975G	2.467025G	14.368M	2.454704G	2.469071G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

2412MHz

22/03/2022



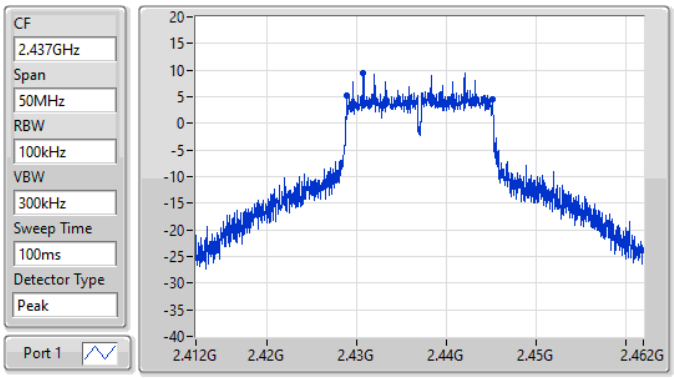


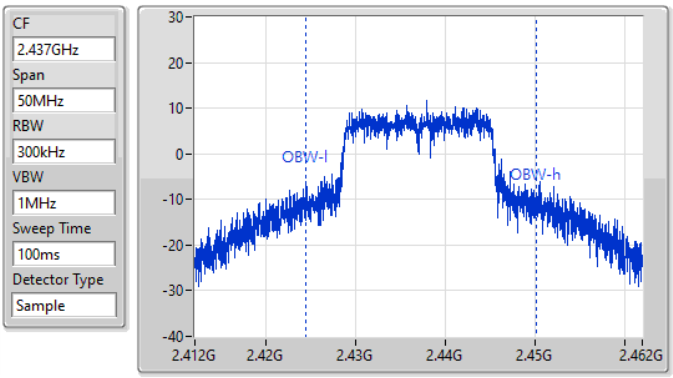
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.40385G	2.42015G	16.567M	2.403704G	2.420271G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

2437MHz

22/03/2022



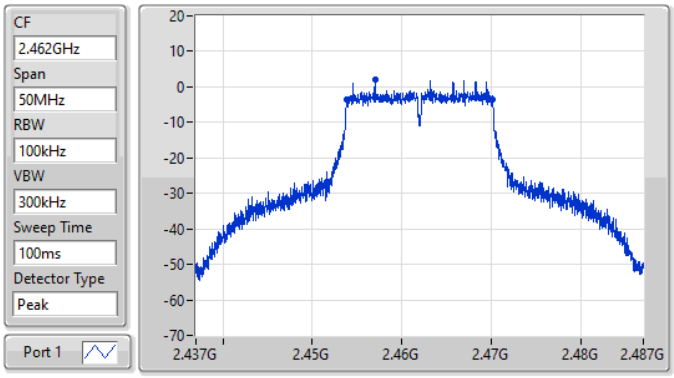


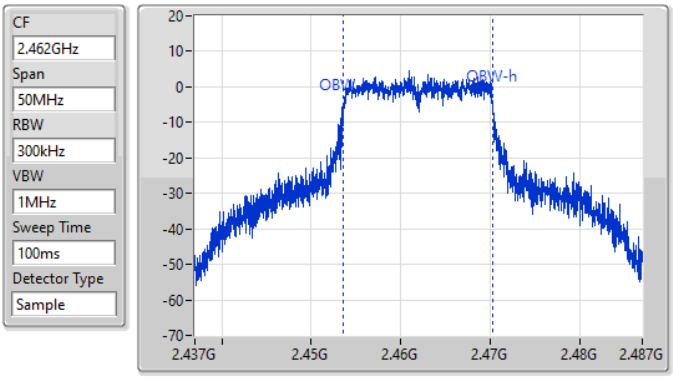
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.42885G	2.44515G	25.737M	2.424406G	2.450143G	500k	1

802.11g_Nss1,(6Mbps)_1TX EBW

2462MHz

22/03/2022



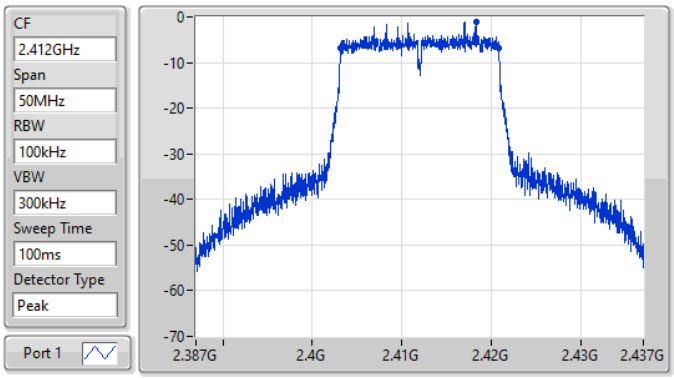


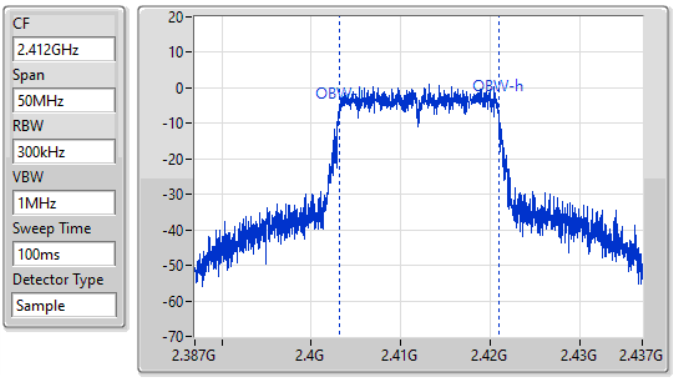
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.35M	2.453825G	2.470175G	16.667M	2.453629G	2.470296G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

2412MHz

22/03/2022



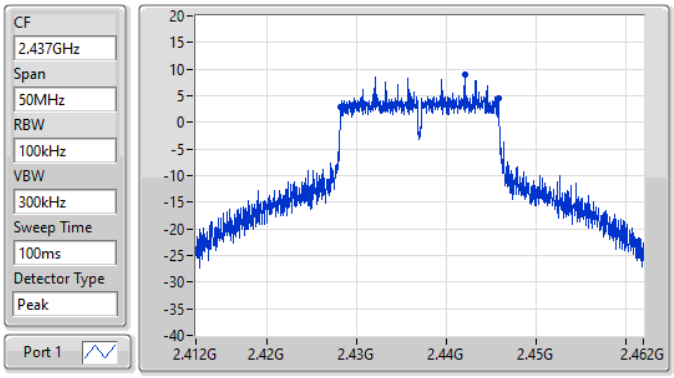


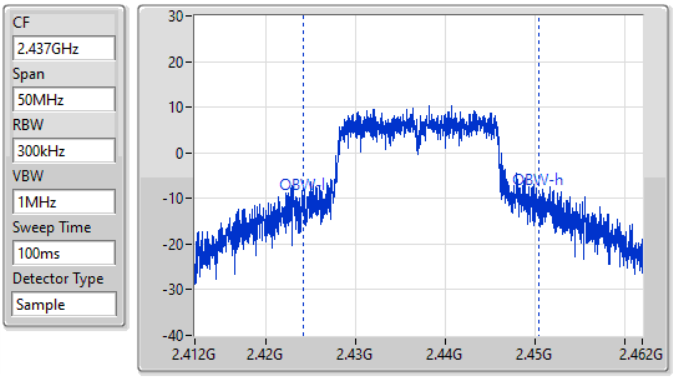
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	2.4032G	2.4208G	17.816M	2.403104G	2.420921G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

2437MHz

22/03/2022



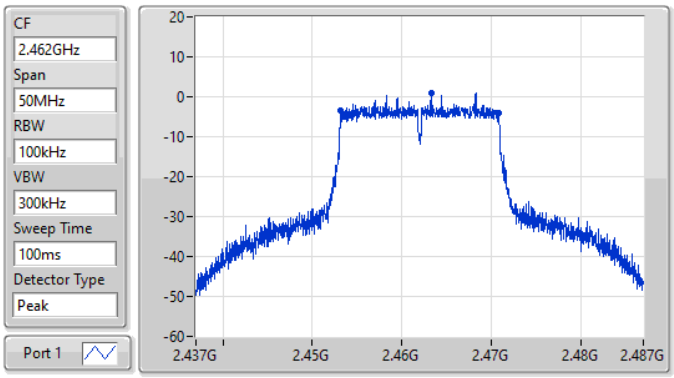


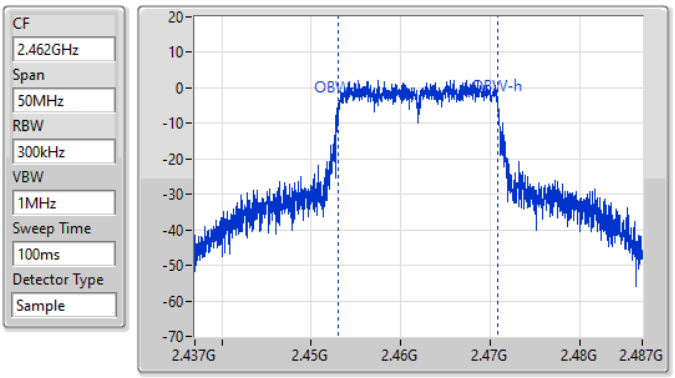
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.428225G	2.445775G	26.287M	2.424156G	2.450443G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

2462MHz

22/03/2022





6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.453225G	2.470775G	17.816M	2.453054G	2.470871G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	18.82	0.07621
802.11g_Nss1,(6Mbps)_1TX	21.15	0.13032
802.11n HT20_Nss1,(MCS0)_1TX	21.13	0.12972

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-0.90	17.47	17.47	30.00
2417MHz	Pass	-0.90	17.97	17.97	30.00
2437MHz	Pass	-0.90	18.82	18.82	30.00
2462MHz	Pass	-0.90	18.78	18.78	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-0.90	12.40	12.40	30.00
2417MHz	Pass	-0.90	14.85	14.85	30.00
2437MHz	Pass	-0.90	21.15	21.15	30.00
2457MHz	Pass	-0.90	18.47	18.47	30.00
2462MHz	Pass	-0.90	15.73	15.73	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-0.90	12.49	12.49	30.00
2417MHz	Pass	-0.90	14.97	14.97	30.00
2437MHz	Pass	-0.90	21.13	21.13	30.00
2457MHz	Pass	-0.90	17.79	17.79	30.00
2462MHz	Pass	-0.90	14.85	14.85	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	-6.43
802.11g_Nss1,(6Mbps)_1TX	-6.39
802.11n HT20_Nss1,(MCS0)_1TX	-5.16

RBW = 3kHz;

Result

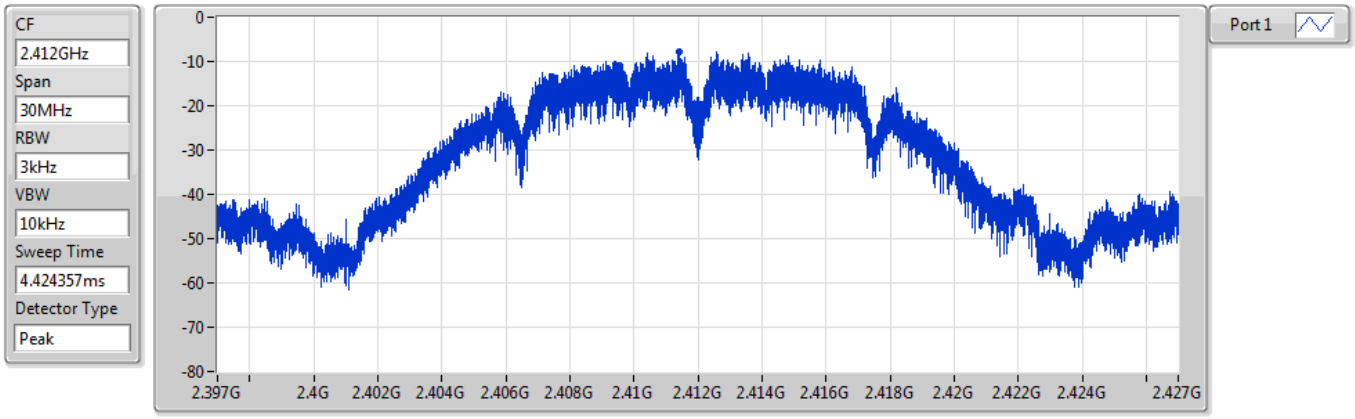
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-0.90	-7.68	-7.68	8.00
2437MHz	Pass	-0.90	-6.43	-6.43	8.00
2462MHz	Pass	-0.90	-6.74	-6.74	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	-0.90	-14.90	-14.90	8.00
2437MHz	Pass	-0.90	-6.39	-6.39	8.00
2462MHz	Pass	-0.90	-12.07	-12.07	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	-0.90	-13.85	-13.85	8.00
2437MHz	Pass	-0.90	-5.16	-5.16	8.00
2462MHz	Pass	-0.90	-11.85	-11.85	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;

802.11b_Nss1,(1Mbps)_1TX PSD

2412MHz

30/03/2022

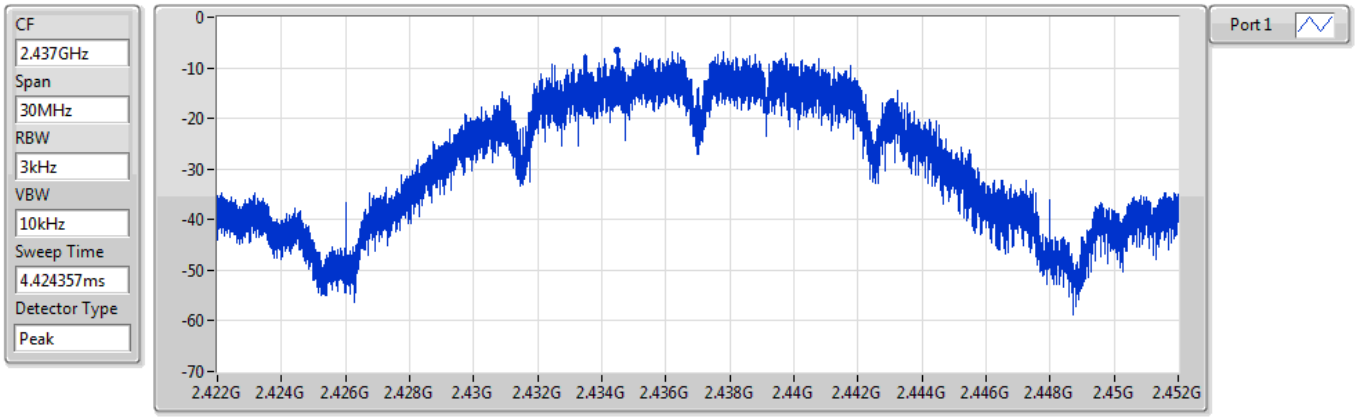


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.68	-7.68	-7.68

802.11b_Nss1,(1Mbps)_1TX PSD

2437MHz

30/03/2022

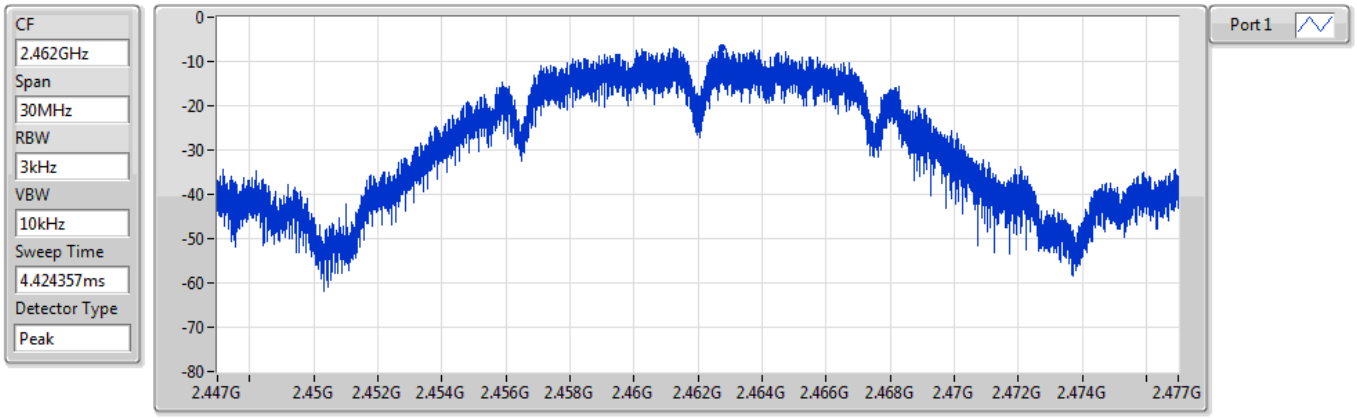


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.43	-6.43	-6.43

802.11b_Nss1,(1Mbps)_1TX PSD

2462MHz

30/03/2022

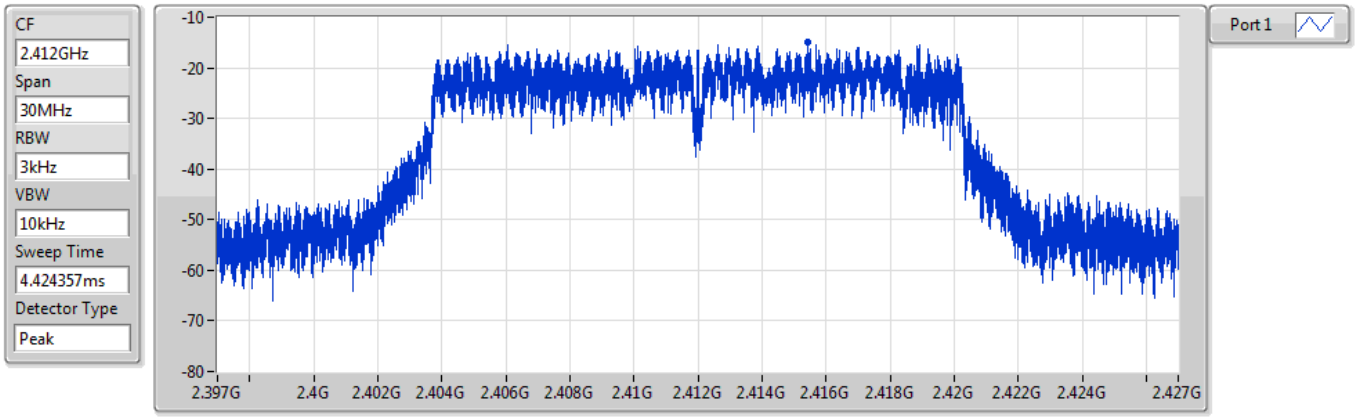


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.74	-6.74	-6.74

802.11g_Nss1,(6Mbps)_1TX PSD

2412MHz

30/03/2022

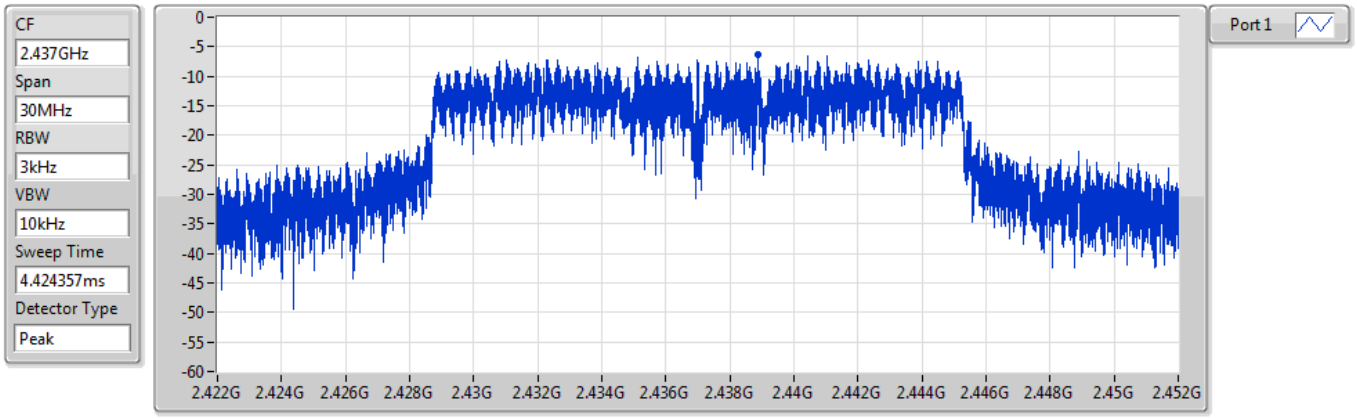


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.90	-14.90	-14.90

802.11g_Nss1,(6Mbps)_1TX PSD

2437MHz

30/03/2022

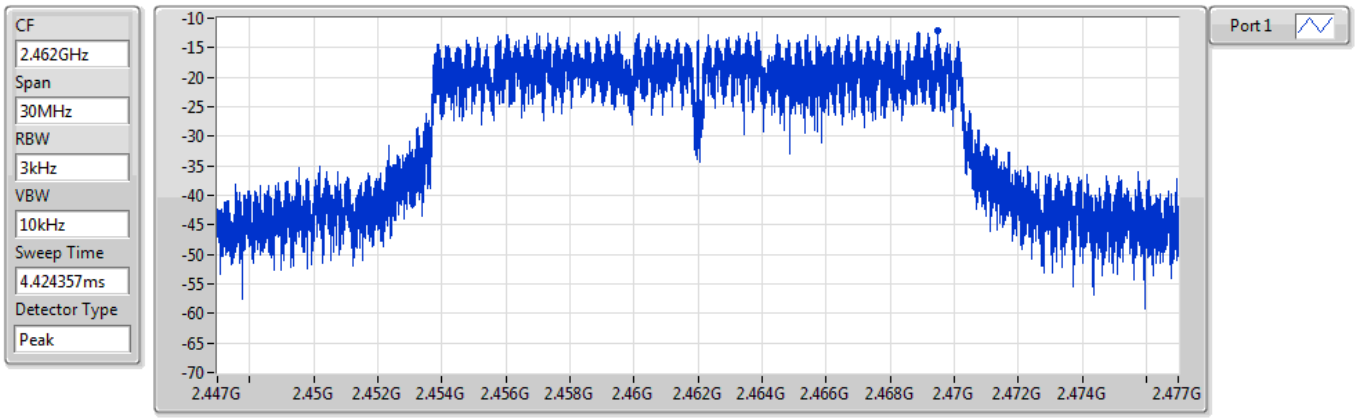


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.39	-6.39	-6.39

802.11g_Nss1,(6Mbps)_1TX PSD

2462MHz

30/03/2022

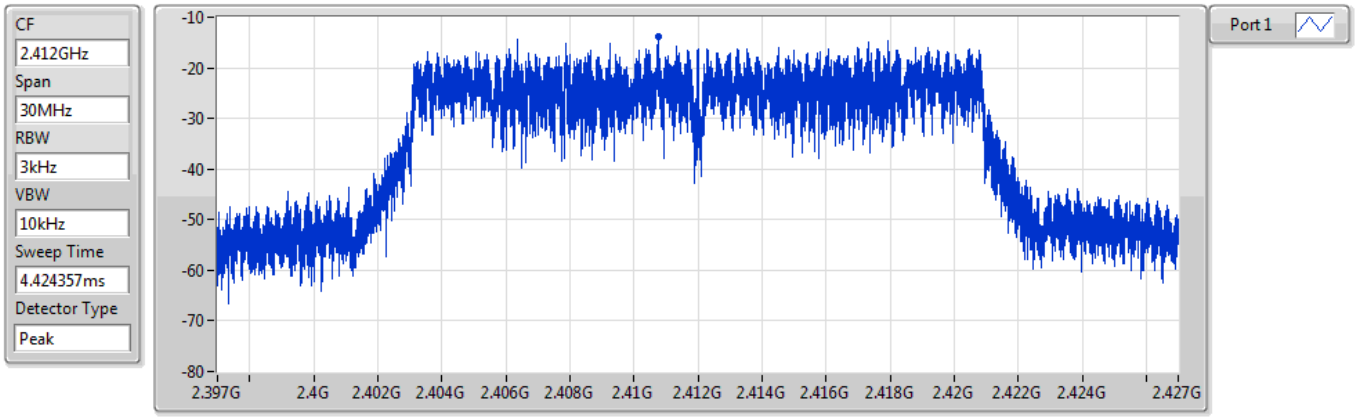


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.07	-12.07	-12.07

802.11n HT20_Nss1,(MCS0)_1TX PSD

2412MHz

30/03/2022

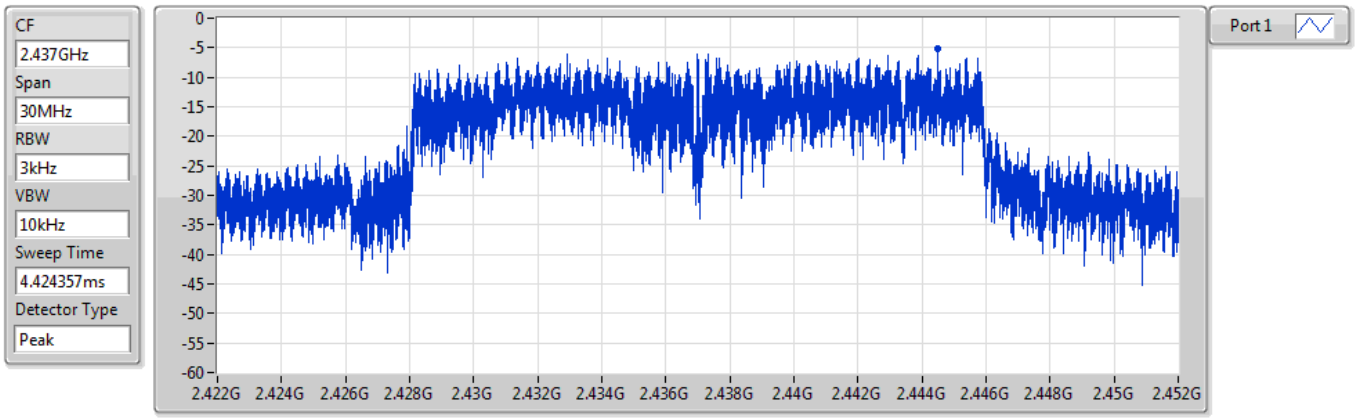


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.85	-13.85	-13.85

802.11n HT20_Nss1,(MCS0)_1TX PSD

2437MHz

30/03/2022

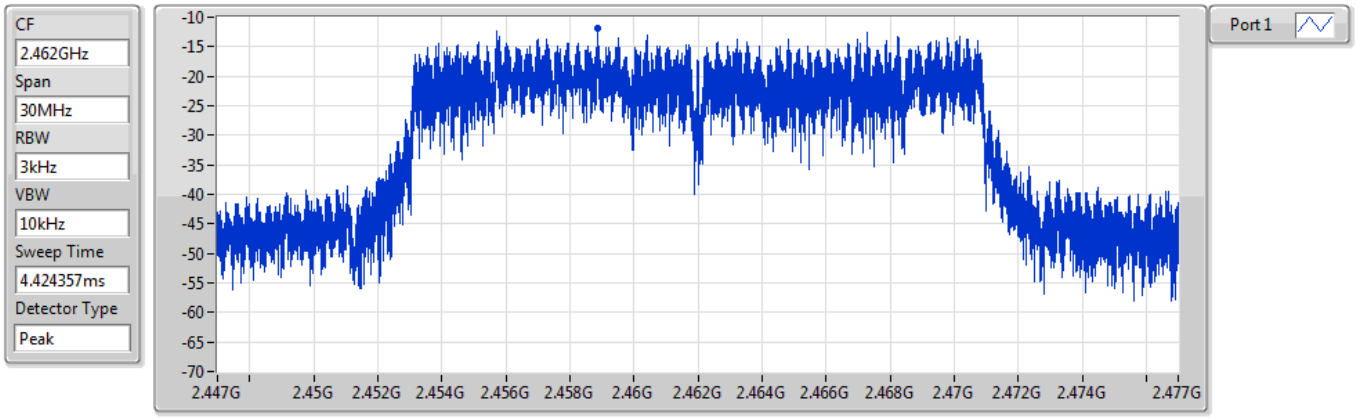


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.16	-5.16	-5.16

802.11n HT20_Nss1,(MCS0)_1TX PSD

2462MHz

30/03/2022



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.85	-11.85	-11.85

Summary

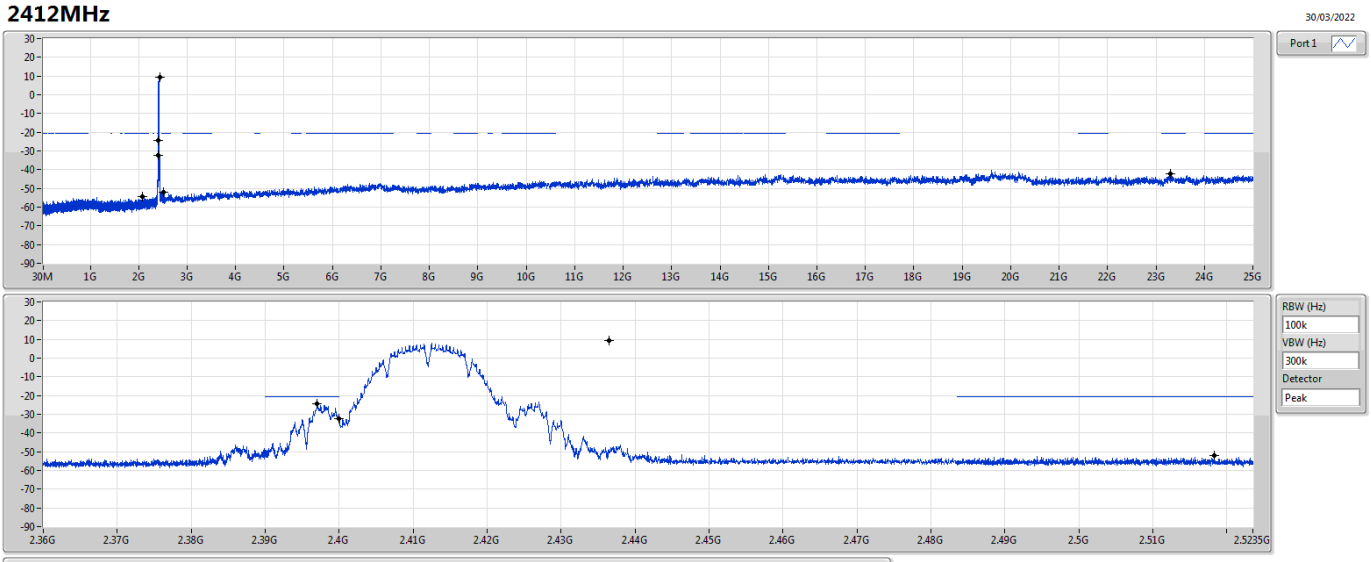
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.43649G	9.39	-20.61	2.07487G	-54.38	2.39702G	-24.29	2.4G	-32.41	2.51824G	-51.86	23.28898G	-42.04	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43073G	10.25	-19.75	2.3G	-52.53	2.39976G	-28.90	2.4G	-30.26	2.48856G	-35.86	16.26507G	-41.44	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43073G	10.22	-19.78	2.30495G	-53.21	2.39952G	-27.50	2.4G	-30.38	2.4836G	-32.77	15.21991G	-42.18	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	2.43649G	9.39	-20.61	2.07487G	-54.38	2.39702G	-24.29	2.4G	-32.41	2.51824G	-51.86	23.28898G	-42.04	1
2437MHz	Pass	2.43649G	9.39	-20.61	2.30932G	-55.09	2.4G	-49.73	2.4G	-49.06	2.50288G	-52.00	17.5659G	-41.93	1
2462MHz	Pass	2.43649G	9.39	-20.61	1.77896G	-54.53	2.39832G	-52.80	2.4835G	-41.15	2.4835G	-41.18	15.26206G	-41.69	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	10.25	-19.75	2.09642G	-53.69	2.39916G	-29.14	2.4G	-31.17	2.50278G	-51.96	15.21991G	-42.57	1
2437MHz	Pass	2.43073G	10.25	-19.75	2.3G	-52.53	2.39976G	-28.90	2.4G	-30.26	2.48856G	-35.86	16.26507G	-41.44	1
2462MHz	Pass	2.43073G	10.25	-19.75	2.08681G	-54.40	2.391G	-52.07	2.4835G	-32.13	2.48358G	-29.97	15.30701G	-42.49	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	10.22	-19.78	700.17M	-54.78	2.39974G	-28.61	2.4G	-30.37	2.50476G	-51.79	24.85671G	-42.38	1
2437MHz	Pass	2.43073G	10.22	-19.78	2.30495G	-53.21	2.39952G	-27.50	2.4G	-30.38	2.4836G	-32.77	15.21991G	-42.18	1
2462MHz	Pass	2.43073G	10.22	-19.78	891.52M	-54.81	2.39354G	-53.56	2.4835G	-30.79	2.48472G	-29.94	23.31426G	-42.32	1

802.11b_Nss1,(1Mbps)_1TX **CSENdB**

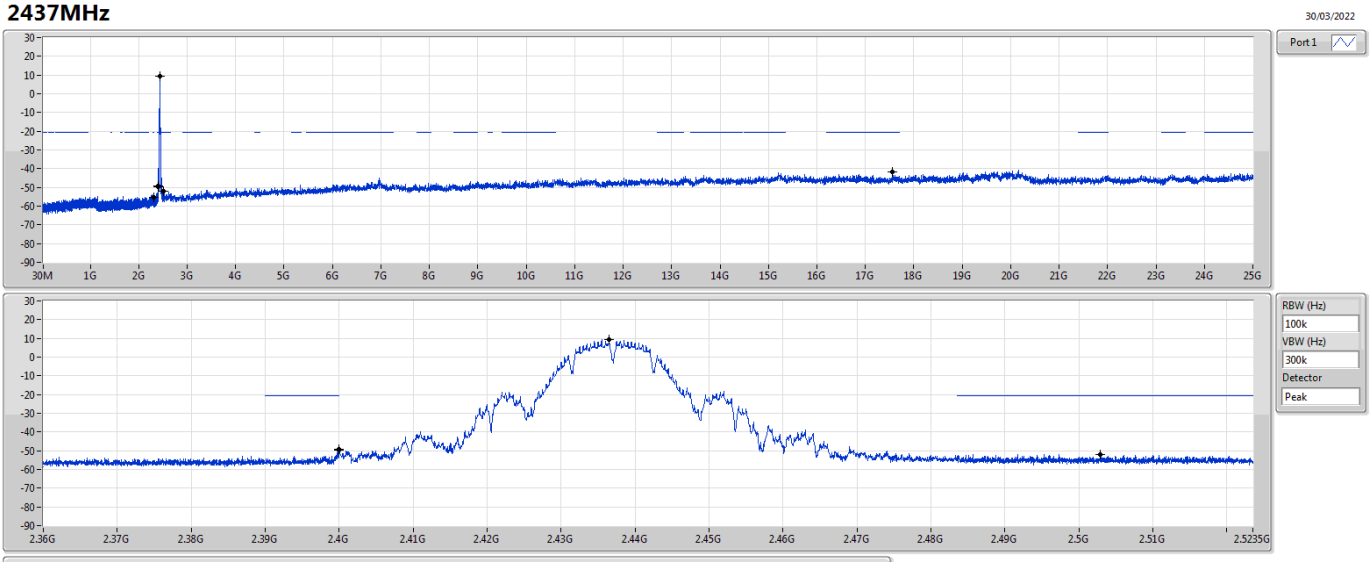
2412MHz



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
2.43649G	9.39	-20.61	2.07487G	-54.38	2.39702G	-24.29	2.4G	-32.41	2.51824G	-51.86	23.28898G	-42.04	1

802.11b_Nss1,(1Mbps)_1TX **CSENdB**

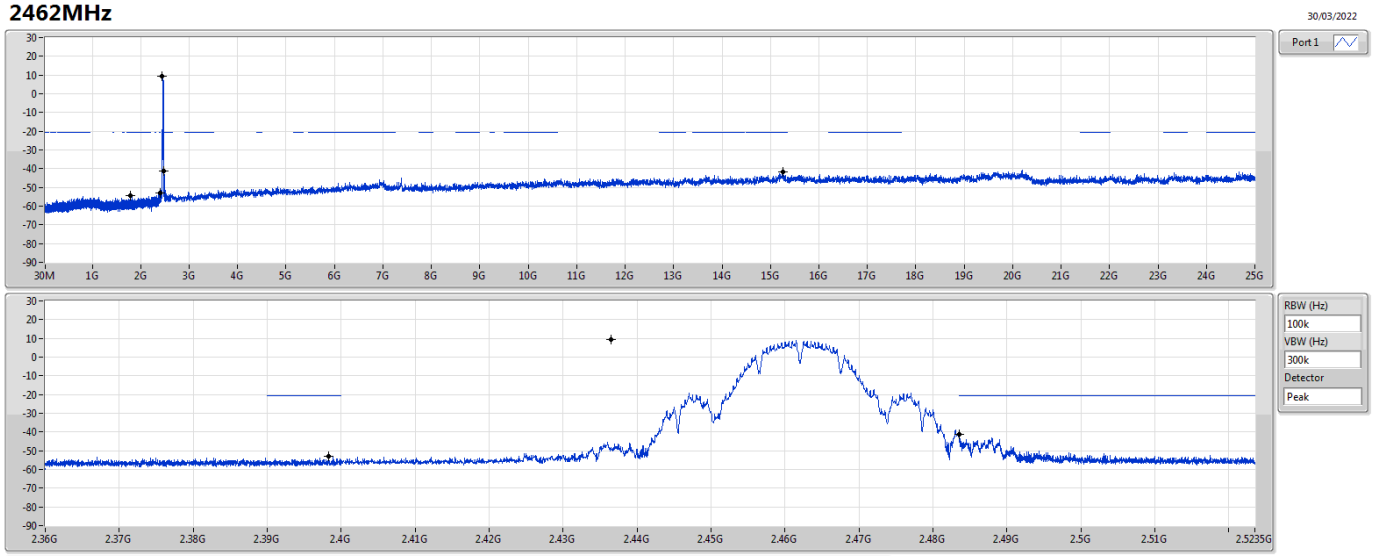
2437MHz



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
2.43649G	9.39	-20.61	2.30932G	-55.09	2.4G	-49.73	2.4G	-49.06	2.50288G	-52.00	17.5659G	-41.93	1

802.11b_Nss1,(1Mbps)_1TX **CSENdB**

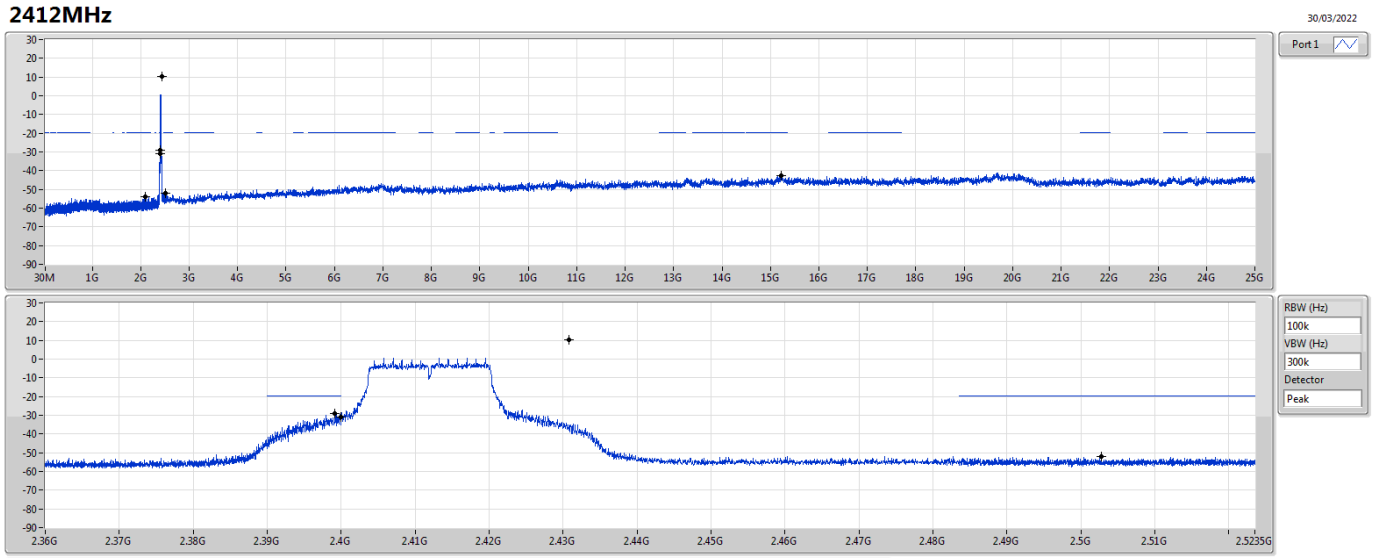
2462MHz



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
2.43649G	9.39	-20.61	1.77896G	-54.53	2.39832G	-52.80	2.4835G	-41.15	2.4835G	-41.18	15.26206G	-41.69	1

802.11g_Nss1,(6Mbps)_1TX **CSENdB**

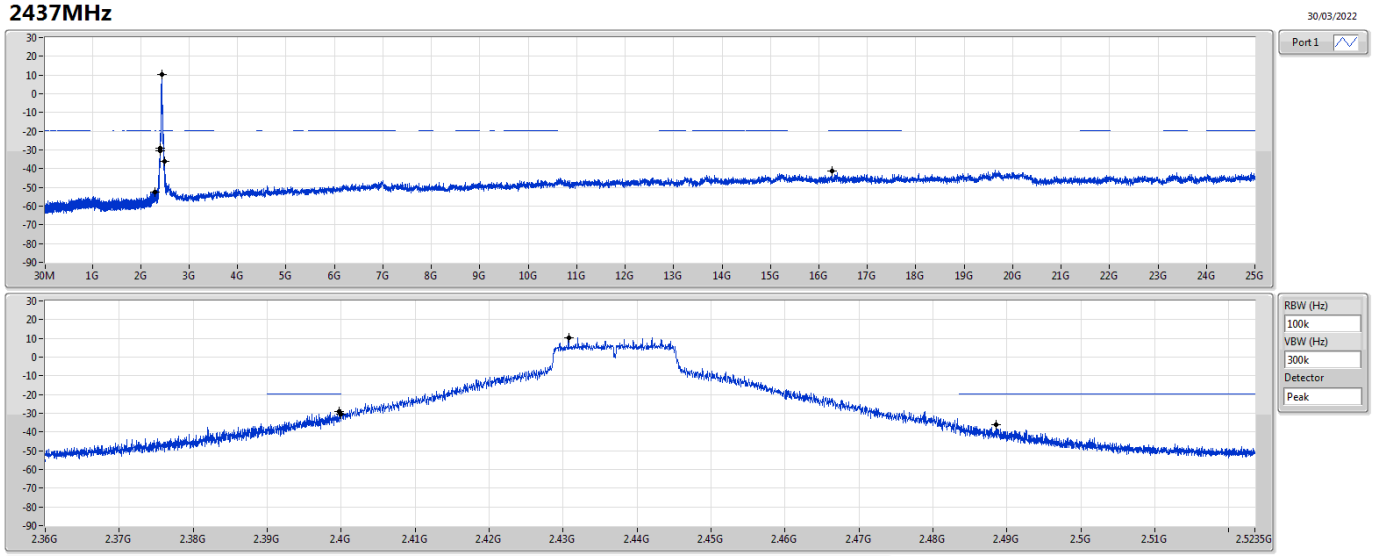
2412MHz



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
2.43073G	10.25	-19.75	2.09642G	-53.69	2.39916G	-29.14	2.4G	-31.17	2.50278G	-51.96	15.21991G	-42.57	1

802.11g_Nss1,(6Mbps)_1TX **CSENdB**

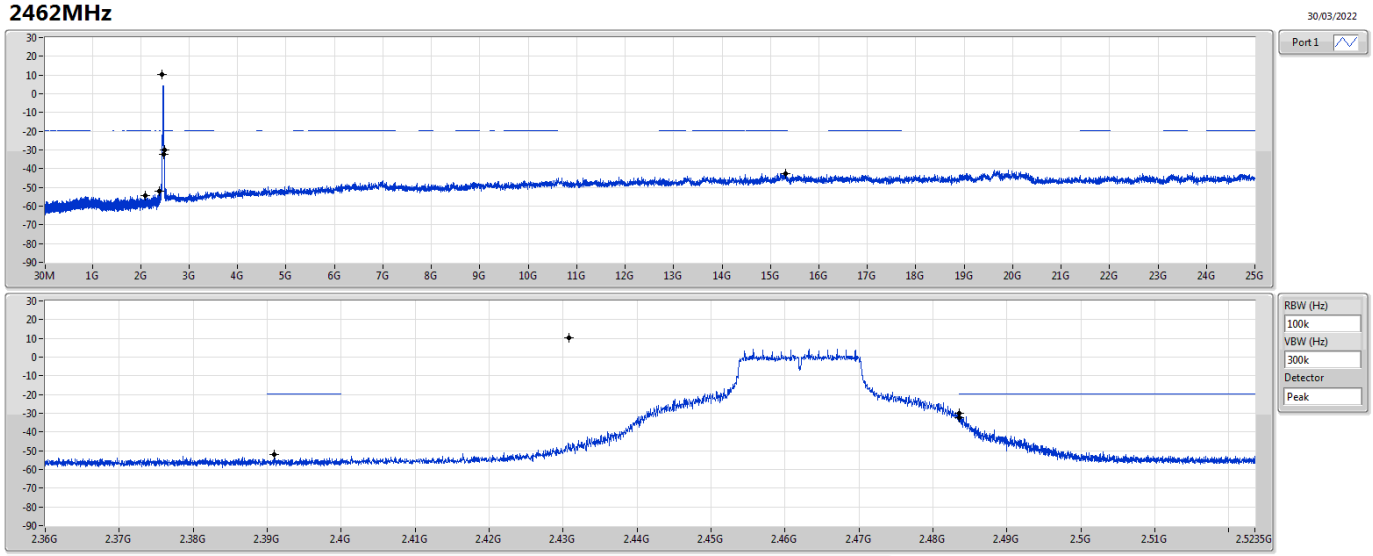
2437MHz



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
2.43073G	10.25	-19.75	2.3G	-52.53	2.39976G	-28.90	2.4G	-30.26	2.48856G	-35.86	16.26507G	-41.44	1

802.11g_Nss1,(6Mbps)_1TX **CSENdB**

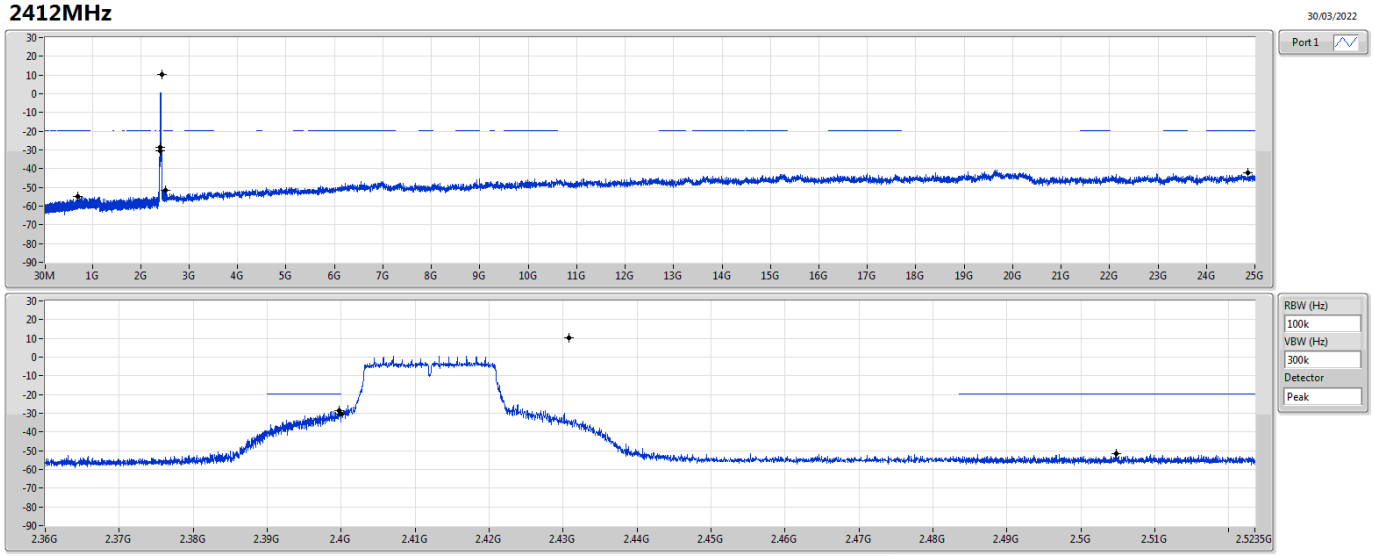
2462MHz



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
2.43073G	10.25	-19.75	2.08681G	-54.40	2.391G	-52.07	2.4835G	-32.13	2.48358G	-29.97	15.30701G	-42.49	1

802.11n HT20_Nss1,(MCS0)_1TX **CSENdB**

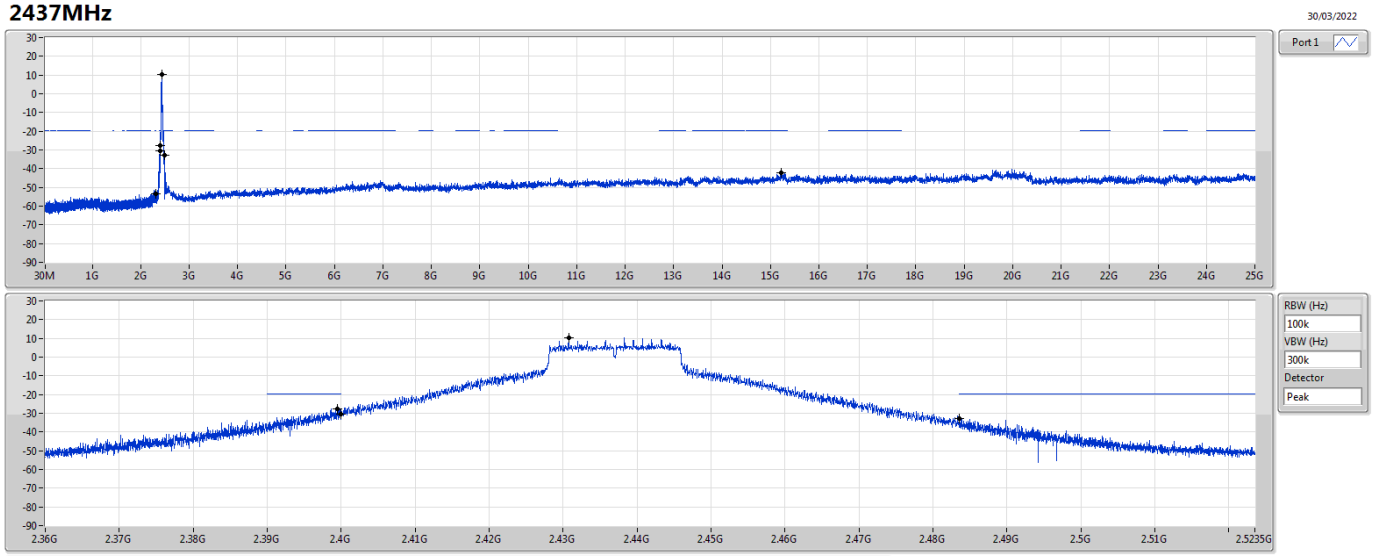
2412MHz



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
2.43073G	10.22	-19.78	700.17M	-54.78	2.39974G	-28.61	2.4G	-30.37	2.50476G	-51.79	24.85671G	-42.38	1

802.11n HT20_Nss1,(MCS0)_1TX **CSENdB**

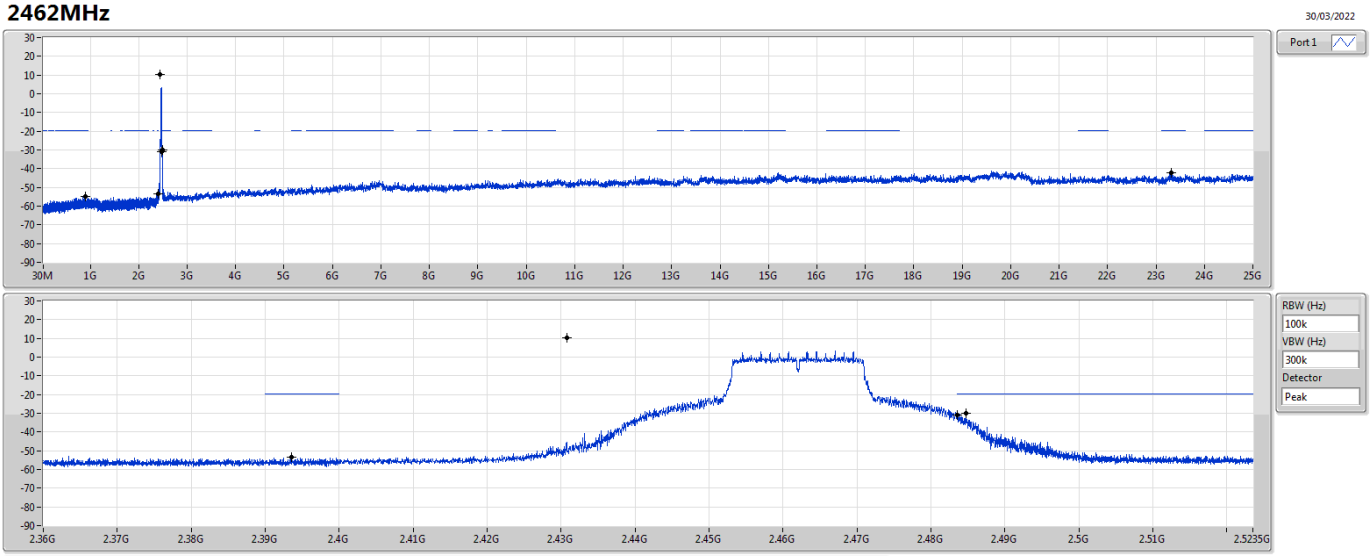
2437MHz



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
2.43073G	10.22	-19.78	2.30495G	-53.21	2.39952G	-27.50	2.4G	-30.38	2.4836G	-32.77	15.21991G	-42.18	1

802.11n HT20_Nss1,(MCS0)_1TX **CSENdB**

2462MHz



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
2.43073G	10.22	-19.78	891.52M	-54.81	2.39354G	-53.56	2.4835G	-30.79	2.48472G	-29.94	23.31426G	-42.32	1

Summary

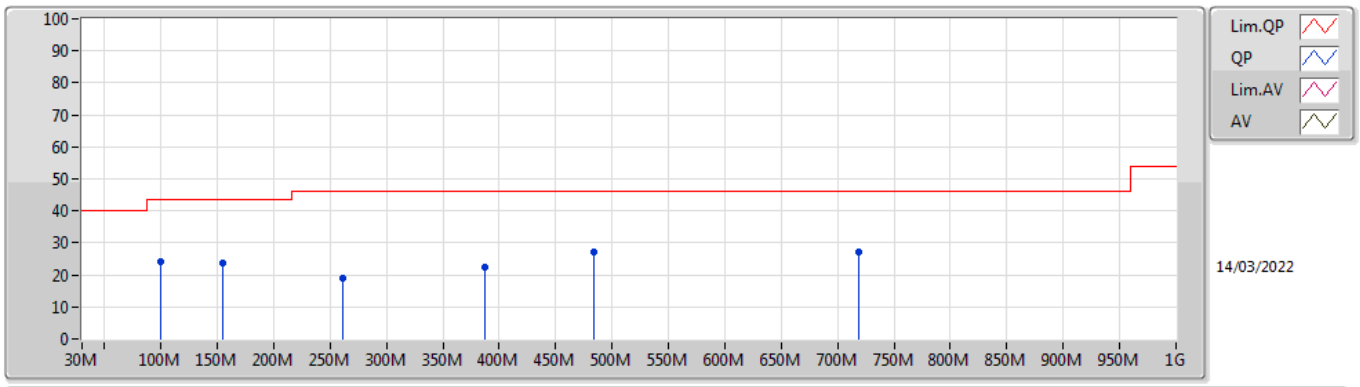
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	941.8M	30.92	46.00	-15.08	3	Horizontal	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	99.84M	23.96	43.50	-19.54	3	Vertical	0	1.00	-
2437MHz	Pass	PK	154.16M	23.91	43.50	-19.59	3	Vertical	0	1.00	-
2437MHz	Pass	PK	260.86M	19.10	46.00	-26.90	3	Vertical	0	1.00	-
2437MHz	Pass	PK	386.96M	22.60	46.00	-23.40	3	Vertical	0	1.00	-
2437MHz	Pass	PK	483.96M	27.31	46.00	-18.69	3	Vertical	0	1.00	-
2437MHz	Pass	PK	718.7M	27.22	46.00	-18.78	3	Vertical	0	1.00	-
2437MHz	Pass	PK	30M	22.44	40.00	-17.56	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	146.4M	24.43	43.50	-19.07	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	154.16M	24.33	43.50	-19.17	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	499.48M	28.04	46.00	-17.96	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	676.02M	28.91	46.00	-17.09	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	844.8M	29.72	46.00	-16.28	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	99.84M	23.29	43.50	-20.21	3	Vertical	360	1.00	-
2437MHz	Pass	PK	146.4M	24.17	43.50	-19.33	3	Vertical	360	1.00	-
2437MHz	Pass	PK	276.38M	18.87	46.00	-27.13	3	Vertical	360	1.00	-
2437MHz	Pass	PK	336.52M	21.54	46.00	-24.46	3	Vertical	360	1.00	-
2437MHz	Pass	PK	474.26M	24.05	46.00	-21.95	3	Vertical	360	1.00	-
2437MHz	Pass	PK	602.3M	26.18	46.00	-19.82	3	Vertical	360	1.00	-
2437MHz	Pass	PK	146.4M	24.89	43.50	-18.61	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	249.22M	20.00	46.00	-26.00	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	293.84M	22.31	46.00	-23.69	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	353.98M	28.95	46.00	-17.05	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	582.9M	27.47	46.00	-18.53	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	941.8M	30.92	46.00	-15.08	3	Horizontal	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

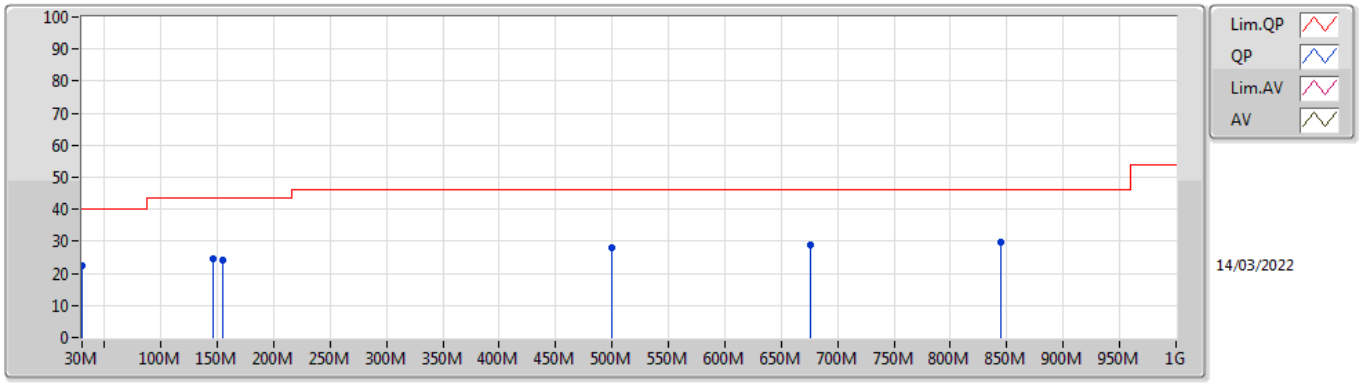
2437MHz_NIUS 3.3V test fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	99.84M	23.96	43.50	-19.54	-9.84	3	Vertical	0	1.00	-	33.80	15.85	1.70	27.39
PK	154.16M	23.91	43.50	-19.59	-9.97	3	Vertical	0	1.00	-	33.88	15.16	2.09	27.22
PK	260.86M	19.10	46.00	-26.90	-5.40	3	Vertical	0	1.00	-	24.50	18.62	2.72	26.74
PK	386.96M	22.60	46.00	-23.40	-3.40	3	Vertical	0	1.00	-	26.00	20.38	3.40	27.18
PK	483.96M	27.31	46.00	-18.69	-1.24	3	Vertical	0	1.00	-	28.55	22.65	3.81	27.70
PK	718.7M	27.22	46.00	-18.78	1.11	3	Vertical	0	1.00	-	26.11	24.44	4.69	28.02

802.11n HT20_Nss1,(MCS0)_1TX

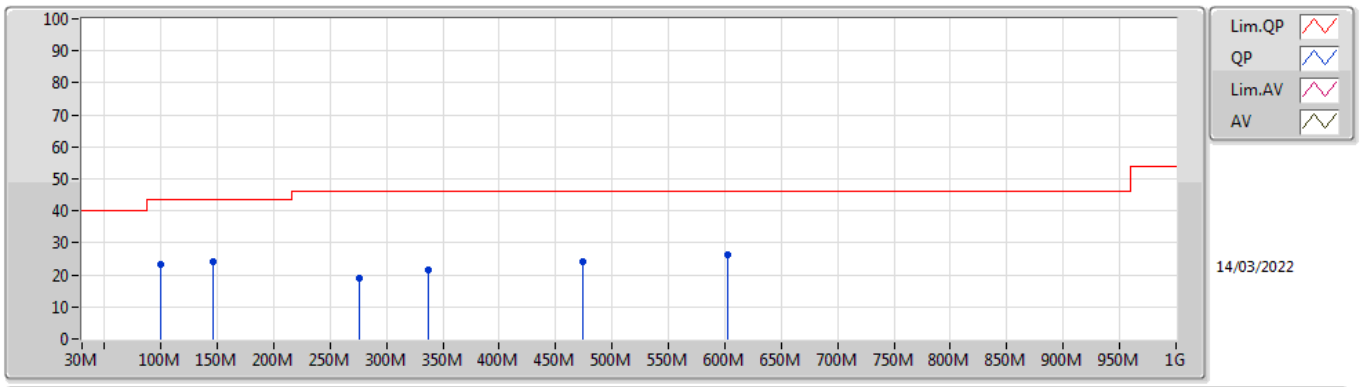
2437MHz_NIUS 3.3V test fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	22.44	40.00	-17.56	-2.98	3	Horizontal	360	1.00	-	25.42	23.76	0.90	27.64
PK	146.4M	24.43	43.50	-19.07	-9.53	3	Horizontal	360	1.00	-	33.96	15.69	2.03	27.25
PK	154.16M	24.33	43.50	-19.17	-9.97	3	Horizontal	360	1.00	-	34.30	15.16	2.09	27.22
PK	499.48M	28.04	46.00	-17.96	-1.13	3	Horizontal	360	1.00	-	29.17	22.68	3.87	27.68
PK	676.02M	28.91	46.00	-17.09	0.59	3	Horizontal	360	1.00	-	28.32	24.15	4.54	28.10
PK	844.8M	29.72	46.00	-16.28	2.91	3	Horizontal	360	1.00	-	26.81	25.50	5.15	27.74

802.11n HT20_Nss1,(MCS0)_1TX

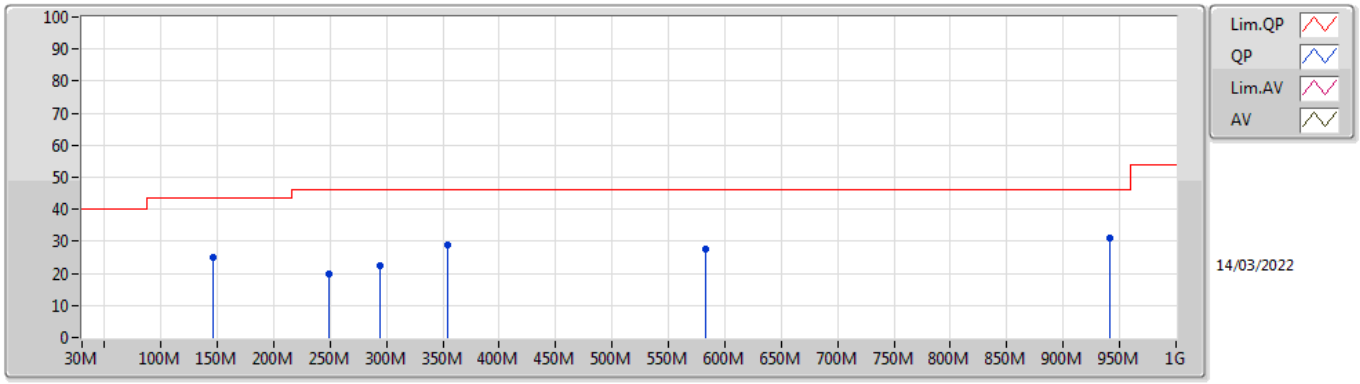
2437MHz_NIUS 5V test fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	99.84M	23.29	43.50	-20.21	-9.84	3	Vertical	360	1.00	-	33.13	15.85	1.70	27.39
PK	146.4M	24.17	43.50	-19.33	-9.53	3	Vertical	360	1.00	-	33.70	15.69	2.03	27.25
PK	276.38M	18.87	46.00	-27.13	-6.17	3	Vertical	360	1.00	-	25.04	17.79	2.80	26.76
PK	336.52M	21.54	46.00	-24.46	-4.76	3	Vertical	360	1.00	-	26.30	18.99	3.17	26.92
PK	474.26M	24.05	46.00	-21.95	-1.28	3	Vertical	360	1.00	-	25.33	22.66	3.77	27.71
PK	602.3M	26.18	46.00	-19.82	0.12	3	Vertical	360	1.00	-	26.06	23.78	4.39	28.05

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_NIUS 5V test fixture



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	146.4M	24.89	43.50	-18.61	-9.53	3	Horizontal	0	1.00	-	34.42	15.69	2.03	27.25
PK	249.22M	20.00	46.00	-26.00	-6.62	3	Horizontal	0	1.00	-	26.62	17.44	2.67	26.73
PK	293.84M	22.31	46.00	-23.69	-5.76	3	Horizontal	0	1.00	-	28.07	18.13	2.89	26.78
PK	353.98M	28.95	46.00	-17.05	-4.06	3	Horizontal	0	1.00	-	33.01	19.65	3.28	26.99
PK	582.9M	27.47	46.00	-18.53	0.02	3	Horizontal	0	1.00	-	27.45	23.81	4.28	28.07
PK	941.8M	30.92	46.00	-15.08	3.88	3	Horizontal	0	1.00	-	27.04	25.71	5.65	27.48

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	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.924G	51.92	54.00	-2.08	3	Vertical	30	1.00	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.39G	51.88	54.00	-2.12	3	Vertical	75	1.22	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.3898G	51.45	54.00	-2.55	3	Vertical	196	1.60	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3858G	49.90	54.00	-4.10	3	Vertical	202	1.70	-
2412MHz	Pass	AV	2.4138G	98.67	Inf	-Inf	3	Vertical	202	1.70	-
2412MHz	Pass	PK	2.3872G	60.12	74.00	-13.88	3	Vertical	202	1.70	-
2412MHz	Pass	PK	2.413G	102.50	Inf	-Inf	3	Vertical	202	1.70	-
2412MHz	Pass	AV	2.3858G	49.56	54.00	-4.44	3	Horizontal	186	1.49	-
2412MHz	Pass	AV	2.4112G	93.55	Inf	-Inf	3	Horizontal	186	1.49	-
2412MHz	Pass	PK	2.3872G	59.93	74.00	-14.07	3	Horizontal	186	1.49	-
2412MHz	Pass	PK	2.413G	97.51	Inf	-Inf	3	Horizontal	186	1.49	-
2412MHz	Pass	AV	4.824G	51.62	54.00	-2.38	3	Vertical	24	1.27	-
2412MHz	Pass	PK	4.82389G	54.14	74.00	-19.86	3	Vertical	24	1.27	-
2412MHz	Pass	AV	4.82405G	46.75	54.00	-7.25	3	Horizontal	274	1.16	-
2412MHz	Pass	PK	4.82401G	50.61	74.00	-23.39	3	Horizontal	274	1.16	-
2417MHz	Pass	AV	2.39G	49.28	54.00	-4.72	3	Vertical	192	1.69	-
2417MHz	Pass	AV	2.4162G	101.34	Inf	-Inf	3	Vertical	192	1.69	-
2417MHz	Pass	PK	2.3794G	59.48	74.00	-14.52	3	Vertical	192	1.69	-
2417MHz	Pass	PK	2.416G	105.28	Inf	-Inf	3	Vertical	192	1.69	-
2417MHz	Pass	AV	2.39G	48.43	54.00	-5.57	3	Horizontal	144	2.11	-
2417MHz	Pass	AV	2.4152G	96.19	Inf	-Inf	3	Horizontal	144	2.11	-
2417MHz	Pass	PK	2.3892G	59.93	74.00	-14.07	3	Horizontal	144	2.11	-
2417MHz	Pass	PK	2.416G	100.12	Inf	-Inf	3	Horizontal	144	2.11	-
2417MHz	Pass	AV	4.83402G	51.64	54.00	-2.36	3	Vertical	29	1.05	-
2417MHz	Pass	AV	7.25038G	47.05	54.00	-6.95	3	Vertical	5	1.00	-
2417MHz	Pass	PK	4.83396G	53.95	74.00	-20.05	3	Vertical	29	1.05	-
2417MHz	Pass	PK	7.2519G	55.76	74.00	-18.24	3	Vertical	5	1.00	-
2417MHz	Pass	AV	4.83403G	45.70	54.00	-8.30	3	Horizontal	292	1.16	-
2417MHz	Pass	AV	7.25026G	37.61	54.00	-16.39	3	Horizontal	21	1.00	-
2417MHz	Pass	PK	4.83401G	50.02	74.00	-23.98	3	Horizontal	292	1.16	-
2417MHz	Pass	PK	7.25468G	50.80	74.00	-23.20	3	Horizontal	21	1.00	-
2437MHz	Pass	AV	2.337G	47.82	54.00	-6.18	3	Vertical	195	1.59	-
2437MHz	Pass	AV	2.4354G	101.76	Inf	-Inf	3	Vertical	195	1.59	-
2437MHz	Pass	AV	2.4858G	47.24	54.00	-6.76	3	Vertical	195	1.59	-
2437MHz	Pass	PK	2.3626G	60.04	74.00	-13.96	3	Vertical	195	1.59	-
2437MHz	Pass	PK	2.4378G	105.61	Inf	-Inf	3	Vertical	195	1.59	-
2437MHz	Pass	PK	2.4902G	59.01	74.00	-14.99	3	Vertical	195	1.59	-
2437MHz	Pass	AV	2.339G	47.88	54.00	-6.12	3	Horizontal	360	1.16	-
2437MHz	Pass	AV	2.4354G	95.45	Inf	-Inf	3	Horizontal	360	1.16	-
2437MHz	Pass	AV	2.4918G	47.23	54.00	-6.77	3	Horizontal	360	1.16	-
2437MHz	Pass	PK	2.3542G	59.17	74.00	-14.83	3	Horizontal	360	1.16	-
2437MHz	Pass	PK	2.4378G	99.48	Inf	-Inf	3	Horizontal	360	1.16	-
2437MHz	Pass	PK	2.4858G	58.25	74.00	-15.75	3	Horizontal	360	1.16	-
2437MHz	Pass	AV	4.87399G	51.51	54.00	-2.49	3	Vertical	24	1.18	-
2437MHz	Pass	AV	7.3103G	45.33	54.00	-8.67	3	Vertical	35	1.18	-
2437MHz	Pass	PK	4.87397G	54.21	74.00	-19.79	3	Vertical	24	1.18	-
2437MHz	Pass	PK	7.3125G	52.02	74.00	-21.98	3	Vertical	35	1.18	-
2437MHz	Pass	AV	4.87399G	45.02	54.00	-8.98	3	Horizontal	304	1.19	-
2437MHz	Pass	AV	7.31027G	40.80	54.00	-13.20	3	Horizontal	151	1.07	-
2437MHz	Pass	PK	4.87395G	49.95	74.00	-24.05	3	Horizontal	304	1.19	-
2437MHz	Pass	PK	7.3112G	52.63	74.00	-21.37	3	Horizontal	151	1.07	-
2462MHz	Pass	AV	2.4602G	101.23	Inf	-Inf	3	Vertical	200	1.50	-
2462MHz	Pass	AV	2.4835G	47.43	54.00	-6.57	3	Vertical	200	1.50	-
2462MHz	Pass	PK	2.461G	105.18	Inf	-Inf	3	Vertical	200	1.50	-
2462MHz	Pass	PK	2.4836G	60.61	74.00	-13.39	3	Vertical	200	1.50	-
2462MHz	Pass	AV	2.4602G	95.76	Inf	-Inf	3	Horizontal	360	1.08	-
2462MHz	Pass	AV	2.4835G	47.19	54.00	-6.81	3	Horizontal	360	1.08	-
2462MHz	Pass	PK	2.461G	99.56	Inf	-Inf	3	Horizontal	360	1.08	-
2462MHz	Pass	PK	2.4918G	59.01	74.00	-14.99	3	Horizontal	360	1.08	-
2462MHz	Pass	AV	4.924G	51.92	54.00	-2.08	3	Vertical	30	1.00	-
2462MHz	Pass	AV	7.38673G	40.52	54.00	-13.48	3	Vertical	6	1.00	-
2462MHz	Pass	PK	4.92414G	54.61	74.00	-19.39	3	Vertical	30	1.00	-
2462MHz	Pass	PK	7.38549G	52.03	74.00	-21.97	3	Vertical	6	1.00	-

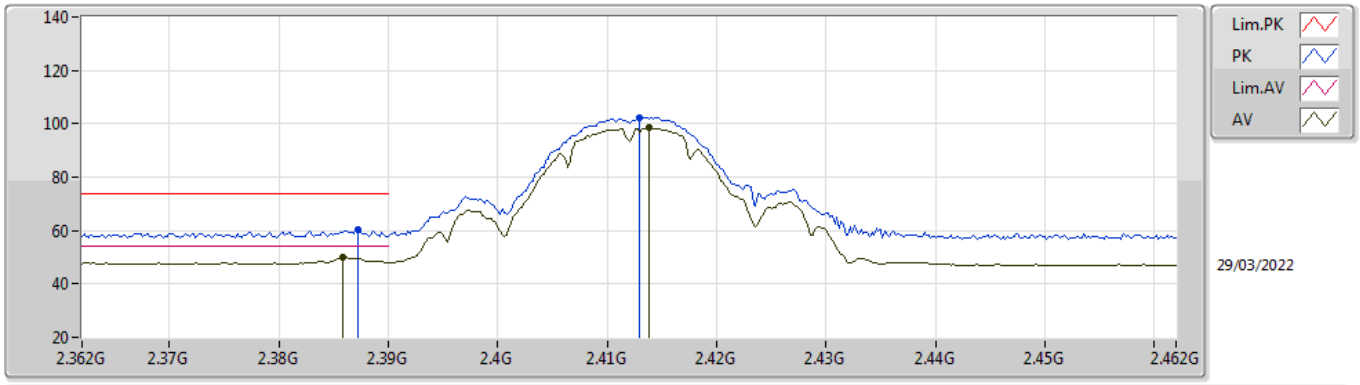
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	AV	4.92402G	43.95	54.00	-10.05	3	Horizontal	309	3.00	-
2462MHz	Pass	AV	7.38533G	38.80	54.00	-15.20	3	Horizontal	260	3.00	-
2462MHz	Pass	PK	4.92394G	49.30	74.00	-24.70	3	Horizontal	309	3.00	-
2462MHz	Pass	PK	7.38568G	51.14	74.00	-22.86	3	Horizontal	260	3.00	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.88	54.00	-2.12	3	Vertical	75	1.22	-
2412MHz	Pass	AV	2.4108G	89.83	Inf	-Inf	3	Vertical	75	1.22	-
2412MHz	Pass	PK	2.3886G	67.85	74.00	-6.15	3	Vertical	75	1.22	-
2412MHz	Pass	PK	2.4122G	99.43	Inf	-Inf	3	Vertical	75	1.22	-
2412MHz	Pass	AV	2.39G	48.90	54.00	-5.10	3	Horizontal	144	2.10	-
2412MHz	Pass	AV	2.417G	84.93	Inf	-Inf	3	Horizontal	144	2.10	-
2412MHz	Pass	PK	2.3896G	62.18	74.00	-11.82	3	Horizontal	144	2.10	-
2412MHz	Pass	PK	2.4134G	94.47	Inf	-Inf	3	Horizontal	144	2.10	-
2412MHz	Pass	AV	4.82404G	33.49	54.00	-20.51	3	Vertical	23	1.26	-
2412MHz	Pass	PK	4.8257G	45.70	74.00	-28.30	3	Vertical	23	1.26	-
2412MHz	Pass	AV	4.82408G	30.86	54.00	-23.14	3	Horizontal	287	2.99	-
2412MHz	Pass	PK	4.8288G	43.70	74.00	-30.30	3	Horizontal	287	2.99	-
2417MHz	Pass	AV	2.39G	51.19	54.00	-2.81	3	Vertical	199	1.70	-
2417MHz	Pass	AV	2.4226G	95.97	Inf	-Inf	3	Vertical	199	1.70	-
2417MHz	Pass	PK	2.3884G	66.29	74.00	-7.71	3	Vertical	199	1.70	-
2417MHz	Pass	PK	2.416G	105.20	Inf	-Inf	3	Vertical	199	1.70	-
2417MHz	Pass	AV	2.3898G	49.72	54.00	-4.28	3	Horizontal	146	2.12	-
2417MHz	Pass	AV	2.416G	90.27	Inf	-Inf	3	Horizontal	146	2.12	-
2417MHz	Pass	PK	2.389G	63.54	74.00	-10.46	3	Horizontal	146	2.12	-
2417MHz	Pass	PK	2.416G	99.51	Inf	-Inf	3	Horizontal	146	2.12	-
2437MHz	Pass	AV	2.3898G	51.59	54.00	-2.41	3	Vertical	283	1.13	-
2437MHz	Pass	AV	2.4426G	99.27	Inf	-Inf	3	Vertical	283	1.13	-
2437MHz	Pass	AV	2.4835G	49.63	54.00	-4.37	3	Vertical	283	1.13	-
2437MHz	Pass	PK	2.3886G	67.92	74.00	-6.08	3	Vertical	283	1.13	-
2437MHz	Pass	PK	2.4378G	108.67	Inf	-Inf	3	Vertical	283	1.13	-
2437MHz	Pass	PK	2.4838G	64.68	74.00	-9.32	3	Vertical	283	1.13	-
2437MHz	Pass	AV	2.389G	49.16	54.00	-4.84	3	Horizontal	357	1.01	-
2437MHz	Pass	AV	2.443G	94.89	Inf	-Inf	3	Horizontal	357	1.01	-
2437MHz	Pass	AV	2.4835G	48.37	54.00	-5.63	3	Horizontal	357	1.01	-
2437MHz	Pass	PK	2.3886G	65.72	74.00	-8.28	3	Horizontal	357	1.01	-
2437MHz	Pass	PK	2.4426G	104.53	Inf	-Inf	3	Horizontal	357	1.01	-
2437MHz	Pass	PK	2.4835G	61.46	74.00	-12.54	3	Horizontal	357	1.01	-
2437MHz	Pass	AV	4.87376G	37.79	54.00	-16.21	3	Vertical	24	1.11	-
2437MHz	Pass	AV	7.31124G	48.71	54.00	-5.29	3	Vertical	7	1.00	-
2437MHz	Pass	PK	4.87296G	50.76	74.00	-23.24	3	Vertical	24	1.11	-
2437MHz	Pass	PK	7.31216G	62.17	74.00	-11.83	3	Vertical	7	1.00	-
2437MHz	Pass	PK	4.873G	48.68	74.00	-25.32	3	Horizontal	303	1.00	-
2437MHz	Pass	AV	4.87496G	35.29	54.00	-18.71	3	Horizontal	303	1.00	-
2437MHz	Pass	PK	7.3122G	55.99	74.00	-18.01	3	Horizontal	151	3.00	-
2437MHz	Pass	AV	7.30868G	42.58	54.00	-11.42	3	Horizontal	151	3.00	-
2457MHz	Pass	AV	2.4556G	98.49	Inf	-Inf	3	Vertical	200	1.50	-
2457MHz	Pass	AV	2.4835G	51.43	54.00	-2.57	3	Vertical	200	1.50	-
2457MHz	Pass	PK	2.4584G	107.50	Inf	-Inf	3	Vertical	200	1.50	-
2457MHz	Pass	PK	2.4836G	66.35	74.00	-7.65	3	Vertical	200	1.50	-
2457MHz	Pass	AV	2.4558G	93.07	Inf	-Inf	3	Horizontal	360	1.07	-
2457MHz	Pass	AV	2.4835G	49.11	54.00	-4.89	3	Horizontal	360	1.07	-
2457MHz	Pass	PK	2.4558G	102.25	Inf	-Inf	3	Horizontal	360	1.07	-
2457MHz	Pass	PK	2.487G	62.85	74.00	-11.15	3	Horizontal	360	1.07	-
2462MHz	Pass	AV	2.456G	95.14	Inf	-Inf	3	Vertical	198	1.50	-
2462MHz	Pass	AV	2.4835G	51.82	54.00	-2.18	3	Vertical	198	1.50	-
2462MHz	Pass	PK	2.4566G	104.41	Inf	-Inf	3	Vertical	198	1.50	-
2462MHz	Pass	PK	2.4838G	68.77	74.00	-5.23	3	Vertical	198	1.50	-
2462MHz	Pass	AV	2.4568G	89.65	Inf	-Inf	3	Horizontal	360	1.06	-
2462MHz	Pass	AV	2.4835G	49.49	54.00	-4.51	3	Horizontal	360	1.06	-
2462MHz	Pass	PK	2.457G	98.86	Inf	-Inf	3	Horizontal	360	1.06	-
2462MHz	Pass	PK	2.4836G	64.60	74.00	-9.40	3	Horizontal	360	1.06	-
2462MHz	Pass	AV	4.92412G	35.17	54.00	-18.83	3	Vertical	24	1.23	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	AV	7.3881G	37.38	54.00	-16.62	3	Vertical	2	1.38	-
2462MHz	Pass	PK	4.9246G	48.05	74.00	-25.95	3	Vertical	24	1.23	-
2462MHz	Pass	PK	7.38288G	50.25	74.00	-23.75	3	Vertical	2	1.38	-
2462MHz	Pass	AV	4.9259G	30.98	54.00	-23.02	3	Horizontal	328	2.90	-
2462MHz	Pass	AV	7.38426G	37.02	54.00	-16.98	3	Horizontal	360	1.47	-
2462MHz	Pass	PK	4.92852G	43.85	74.00	-30.15	3	Horizontal	328	2.90	-
2462MHz	Pass	PK	7.38248G	50.11	74.00	-23.89	3	Horizontal	360	1.47	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	50.97	54.00	-3.03	3	Vertical	300	1.28	-
2412MHz	Pass	AV	2.4112G	87.87	Inf	-Inf	3	Vertical	300	1.28	-
2412MHz	Pass	PK	2.3898G	66.29	74.00	-7.71	3	Vertical	300	1.28	-
2412MHz	Pass	PK	2.4178G	97.28	Inf	-Inf	3	Vertical	300	1.28	-
2412MHz	Pass	AV	2.39G	49.75	54.00	-4.25	3	Horizontal	187	1.98	-
2412MHz	Pass	AV	2.4056G	83.58	Inf	-Inf	3	Horizontal	187	1.98	-
2412MHz	Pass	PK	2.3898G	63.24	74.00	-10.76	3	Horizontal	187	1.98	-
2412MHz	Pass	PK	2.415G	93.33	Inf	-Inf	3	Horizontal	187	1.98	-
2412MHz	Pass	AV	4.82412G	33.76	54.00	-20.24	3	Vertical	23	1.28	-
2412MHz	Pass	PK	4.8226G	46.45	74.00	-27.55	3	Vertical	23	1.28	-
2412MHz	Pass	AV	4.81924G	30.93	54.00	-23.07	3	Horizontal	275	1.40	-
2412MHz	Pass	PK	4.82228G	44.78	74.00	-29.22	3	Horizontal	275	1.40	-
2417MHz	Pass	AV	2.3898G	51.14	54.00	-2.86	3	Vertical	201	1.69	-
2417MHz	Pass	AV	2.4228G	94.32	Inf	-Inf	3	Vertical	201	1.69	-
2417MHz	Pass	PK	2.3894G	66.27	74.00	-7.73	3	Vertical	201	1.69	-
2417MHz	Pass	PK	2.4224G	103.96	Inf	-Inf	3	Vertical	201	1.69	-
2417MHz	Pass	AV	2.3894G	49.39	54.00	-4.61	3	Horizontal	145	2.12	-
2417MHz	Pass	AV	2.4158G	89.22	Inf	-Inf	3	Horizontal	145	2.12	-
2417MHz	Pass	PK	2.3896G	65.12	74.00	-8.88	3	Horizontal	145	2.12	-
2417MHz	Pass	PK	2.4116G	98.31	Inf	-Inf	3	Horizontal	145	2.12	-
2437MHz	Pass	AV	2.3898G	51.45	54.00	-2.55	3	Vertical	196	1.60	-
2437MHz	Pass	AV	2.4306G	97.73	Inf	-Inf	3	Vertical	196	1.60	-
2437MHz	Pass	AV	2.4842G	49.39	54.00	-4.61	3	Vertical	196	1.60	-
2437MHz	Pass	PK	2.3886G	68.11	74.00	-5.89	3	Vertical	196	1.60	-
2437MHz	Pass	PK	2.431G	107.61	Inf	-Inf	3	Vertical	196	1.60	-
2437MHz	Pass	PK	2.4842G	66.47	74.00	-7.53	3	Vertical	196	1.60	-
2437MHz	Pass	AV	2.3894G	49.10	54.00	-4.90	3	Horizontal	360	1.02	-
2437MHz	Pass	AV	2.4426G	92.67	Inf	-Inf	3	Horizontal	360	1.02	-
2437MHz	Pass	AV	2.4838G	48.84	54.00	-5.16	3	Horizontal	360	1.02	-
2437MHz	Pass	PK	2.3866G	61.75	74.00	-12.25	3	Horizontal	360	1.02	-
2437MHz	Pass	PK	2.4414G	102.75	Inf	-Inf	3	Horizontal	360	1.02	-
2437MHz	Pass	PK	2.4886G	62.48	74.00	-11.52	3	Horizontal	360	1.02	-
2437MHz	Pass	AV	4.87308G	37.86	54.00	-16.14	3	Vertical	25	1.14	-
2437MHz	Pass	AV	7.30944G	48.52	54.00	-5.48	3	Vertical	10	1.18	-
2437MHz	Pass	PK	4.87356G	50.67	74.00	-23.33	3	Vertical	25	1.14	-
2437MHz	Pass	PK	7.30792G	62.37	74.00	-11.63	3	Vertical	10	1.18	-
2437MHz	Pass	AV	4.87464G	35.86	54.00	-18.14	3	Horizontal	289	1.08	-
2437MHz	Pass	AV	7.30904G	39.81	54.00	-14.19	3	Horizontal	346	1.21	-
2437MHz	Pass	PK	4.87536G	48.64	74.00	-25.36	3	Horizontal	289	1.08	-
2437MHz	Pass	PK	7.30292G	52.01	74.00	-21.99	3	Horizontal	346	1.21	-
2457MHz	Pass	AV	2.4518G	96.77	Inf	-Inf	3	Vertical	197	1.50	-
2457MHz	Pass	AV	2.4835G	51.14	54.00	-2.86	3	Vertical	197	1.50	-
2457MHz	Pass	PK	2.4516G	106.39	Inf	-Inf	3	Vertical	197	1.50	-
2457MHz	Pass	PK	2.4842G	71.35	74.00	-2.65	3	Vertical	197	1.50	-
2457MHz	Pass	AV	2.456G	91.49	Inf	-Inf	3	Horizontal	360	1.06	-
2457MHz	Pass	AV	2.4838G	48.66	54.00	-5.34	3	Horizontal	360	1.06	-
2457MHz	Pass	PK	2.4514G	100.90	Inf	-Inf	3	Horizontal	360	1.06	-
2457MHz	Pass	PK	2.4838G	67.53	74.00	-6.47	3	Horizontal	360	1.06	-
2462MHz	Pass	AV	2.4572G	91.51	Inf	-Inf	3	Vertical	199	1.49	-
2462MHz	Pass	AV	2.4835G	50.35	54.00	-3.65	3	Vertical	199	1.49	-
2462MHz	Pass	PK	2.4564G	101.43	Inf	-Inf	3	Vertical	199	1.49	-
2462MHz	Pass	PK	2.4835G	66.62	74.00	-7.38	3	Vertical	199	1.49	-
2462MHz	Pass	AV	2.4568G	87.43	Inf	-Inf	3	Horizontal	360	1.05	-
2462MHz	Pass	AV	2.4838G	49.02	54.00	-4.98	3	Horizontal	360	1.05	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4556G	97.09	Inf	-Inf	3	Horizontal	360	1.05	-
2462MHz	Pass	PK	2.4835G	61.52	74.00	-12.48	3	Horizontal	360	1.05	-
2462MHz	Pass	AV	4.93032G	30.49	54.00	-23.51	3	Vertical	284	1.61	-
2462MHz	Pass	AV	7.39488G	37.05	54.00	-16.95	3	Vertical	320	1.15	-
2462MHz	Pass	PK	4.92276G	44.11	74.00	-29.89	3	Vertical	284	1.61	-
2462MHz	Pass	PK	7.38824G	50.50	74.00	-23.50	3	Vertical	320	1.15	-
2462MHz	Pass	AV	4.92872G	30.72	54.00	-23.28	3	Horizontal	124	1.11	-
2462MHz	Pass	AV	7.39504G	37.05	54.00	-16.95	3	Horizontal	242	1.71	-
2462MHz	Pass	PK	4.92904G	43.68	74.00	-30.32	3	Horizontal	124	1.11	-
2462MHz	Pass	PK	7.38956G	50.39	74.00	-23.61	3	Horizontal	242	1.71	-

802.11b_Nss1,(1Mbps)_1TX

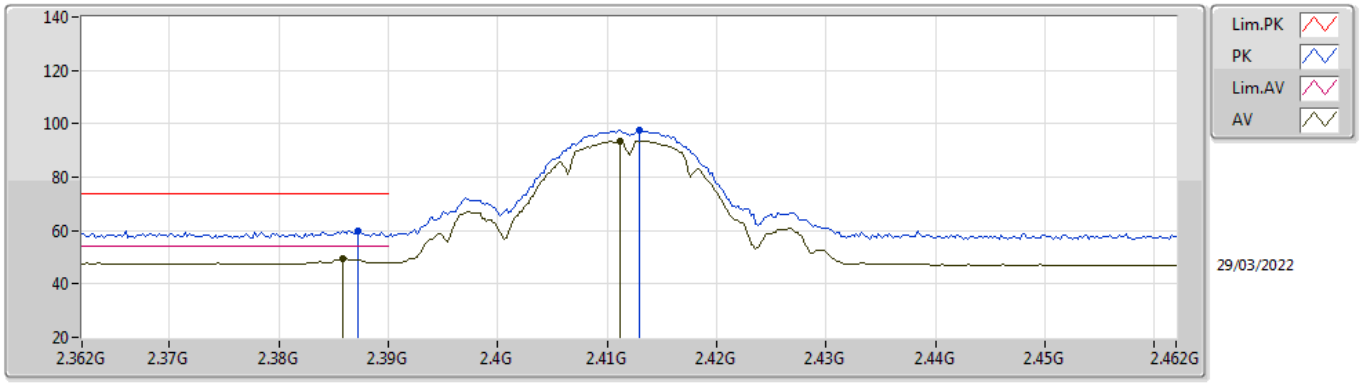
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3858G	49.90	54.00	-4.10	34.98	3	Vertical	202	1.70	-	14.92	27.73	7.25	-
AV	2.4138G	98.67	Inf	-Inf	34.89	3	Vertical	202	1.70	-	63.78	27.62	7.27	-
PK	2.3872G	60.12	74.00	-13.88	34.98	3	Vertical	202	1.70	-	25.14	27.73	7.25	-
PK	2.413G	102.50	Inf	-Inf	34.89	3	Vertical	202	1.70	-	67.61	27.62	7.27	-

802.11b_Nss1,(1Mbps)_1TX

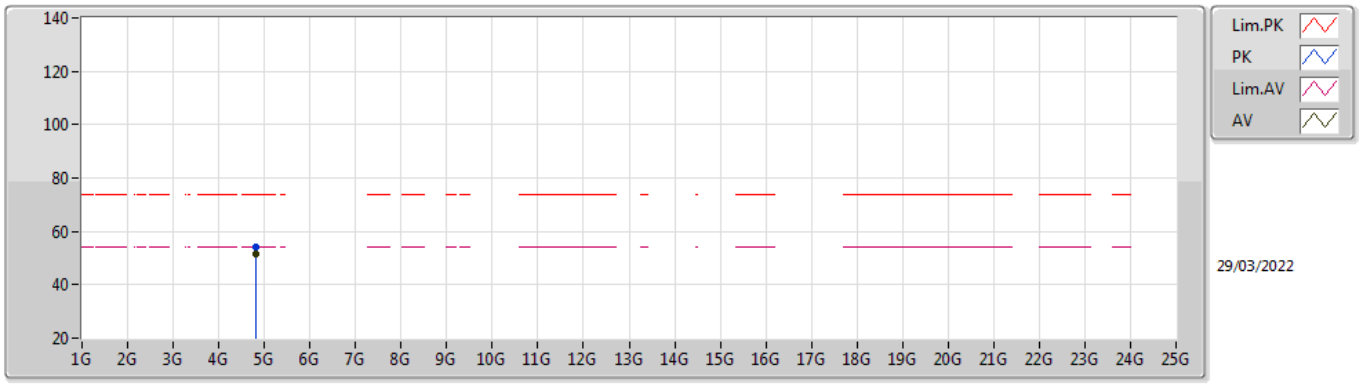
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3858G	49.56	54.00	-4.44	34.98	3	Horizontal	186	1.49	-	14.58	27.73	7.25	-
AV	2.4112G	93.55	Inf	-Inf	34.90	3	Horizontal	186	1.49	-	58.65	27.63	7.27	-
PK	2.3872G	59.93	74.00	-14.07	34.98	3	Horizontal	186	1.49	-	24.95	27.73	7.25	-
PK	2.413G	97.51	Inf	-Inf	34.89	3	Horizontal	186	1.49	-	62.62	27.62	7.27	-

802.11b_Nss1,(1Mbps)_1TX

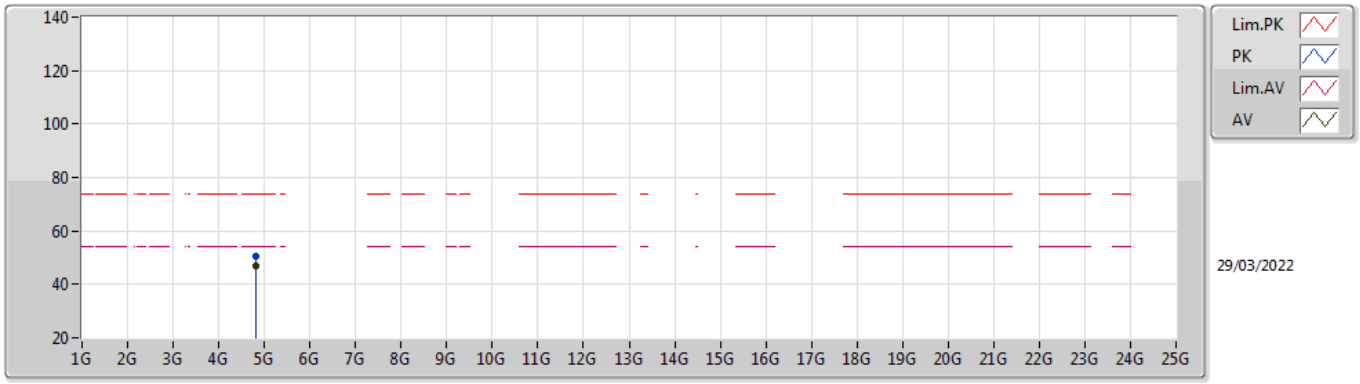
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.824G	51.62	54.00	-2.38	5.89	3	Vertical	24	1.27	-	45.73	31.15	8.92	34.18
PK	4.82389G	54.14	74.00	-19.86	5.89	3	Vertical	24	1.27	-	48.25	31.15	8.92	34.18

802.11b_Nss1,(1Mbps)_1TX

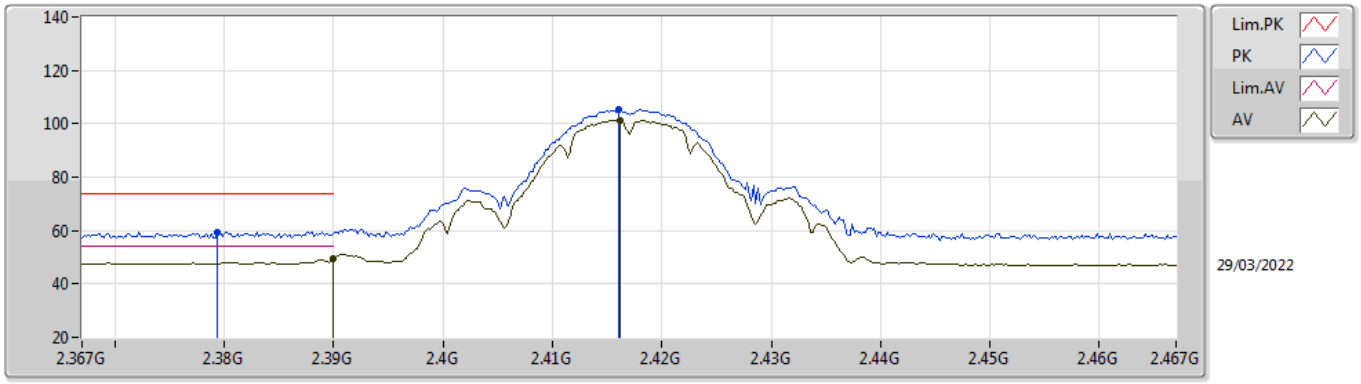
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82405G	46.75	54.00	-7.25	5.89	3	Horizontal	274	1.16	-	40.86	31.15	8.92	34.18
PK	4.82401G	50.61	74.00	-23.39	5.89	3	Horizontal	274	1.16	-	44.72	31.15	8.92	34.18

802.11b_Nss1,(1Mbps)_1TX

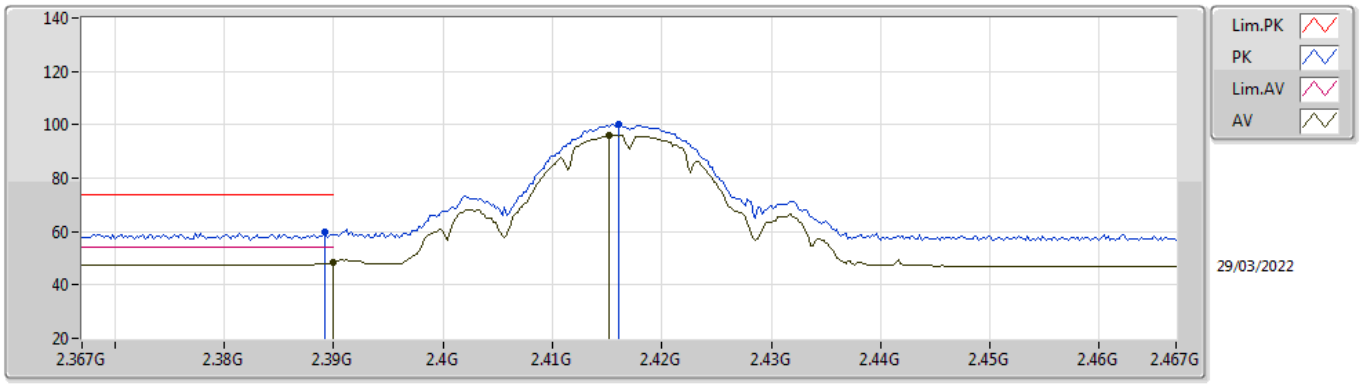
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.28	54.00	-4.72	34.98	3	Vertical	192	1.69	-	14.30	27.72	7.26	-
AV	2.4162G	101.34	Inf	-Inf	34.87	3	Vertical	192	1.69	-	66.47	27.60	7.27	-
PK	2.3794G	59.48	74.00	-14.52	34.99	3	Vertical	192	1.69	-	24.49	27.74	7.25	-
PK	2.416G	105.28	Inf	-Inf	34.87	3	Vertical	192	1.69	-	70.41	27.60	7.27	-

802.11b_Nss1,(1Mbps)_1TX

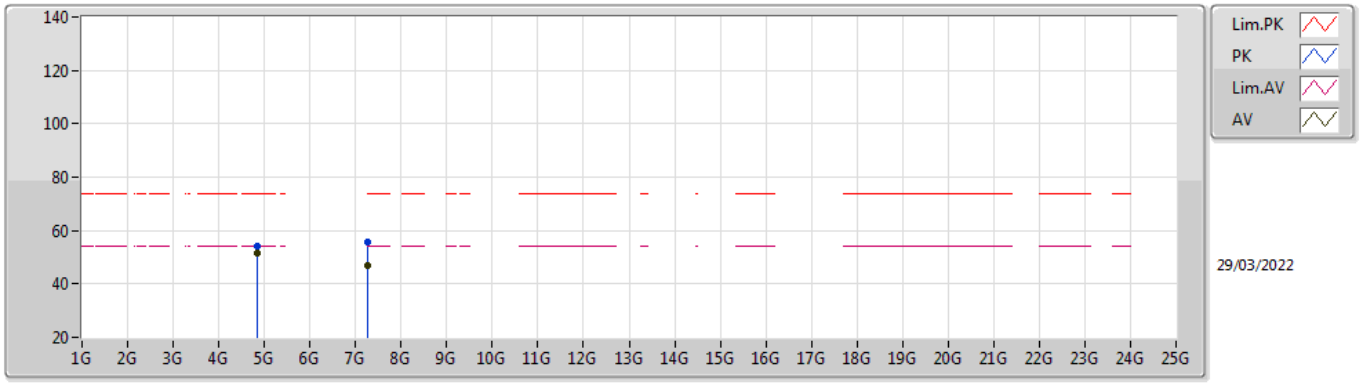
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	48.43	54.00	-5.57	34.98	3	Horizontal	144	2.11	-	13.45	27.72	7.26	-
AV	2.4152G	96.19	Inf	-Inf	34.88	3	Horizontal	144	2.11	-	61.31	27.61	7.27	-
PK	2.3892G	59.93	74.00	-14.07	34.98	3	Horizontal	144	2.11	-	24.95	27.72	7.26	-
PK	2.416G	100.12	Inf	-Inf	34.87	3	Horizontal	144	2.11	-	65.25	27.60	7.27	-

802.11b_Nss1,(1Mbps)_1TX

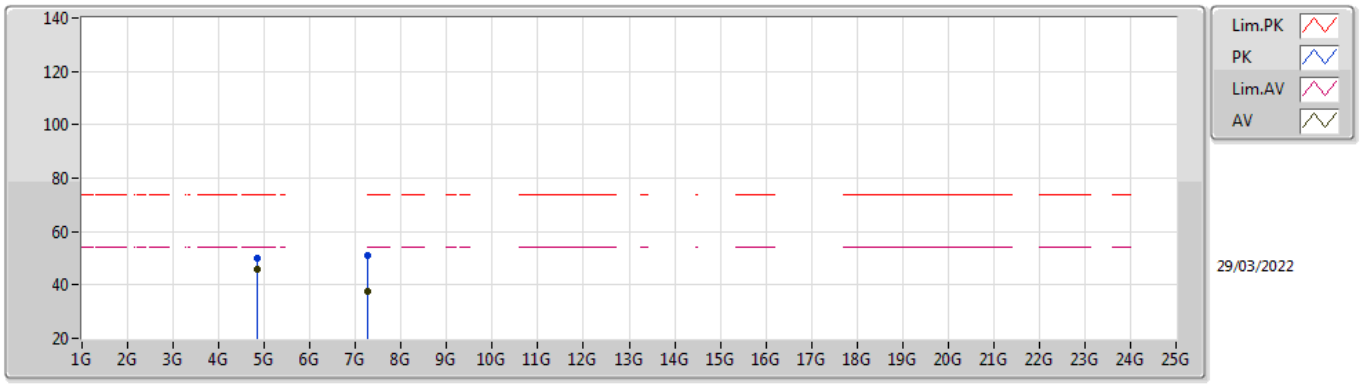
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.83402G	51.64	54.00	-2.36	5.92	3	Vertical	29	1.05	-	45.72	31.17	8.93	34.18
AV	7.25038G	47.05	54.00	-6.95	12.36	3	Vertical	5	1.00	-	34.69	36.30	10.56	34.50
PK	4.83396G	53.95	74.00	-20.05	5.92	3	Vertical	29	1.05	-	48.03	31.17	8.93	34.18
PK	7.2519G	55.76	74.00	-18.24	12.36	3	Vertical	5	1.00	-	43.40	36.30	10.56	34.50

802.11b_Nss1,(1Mbps)_1TX

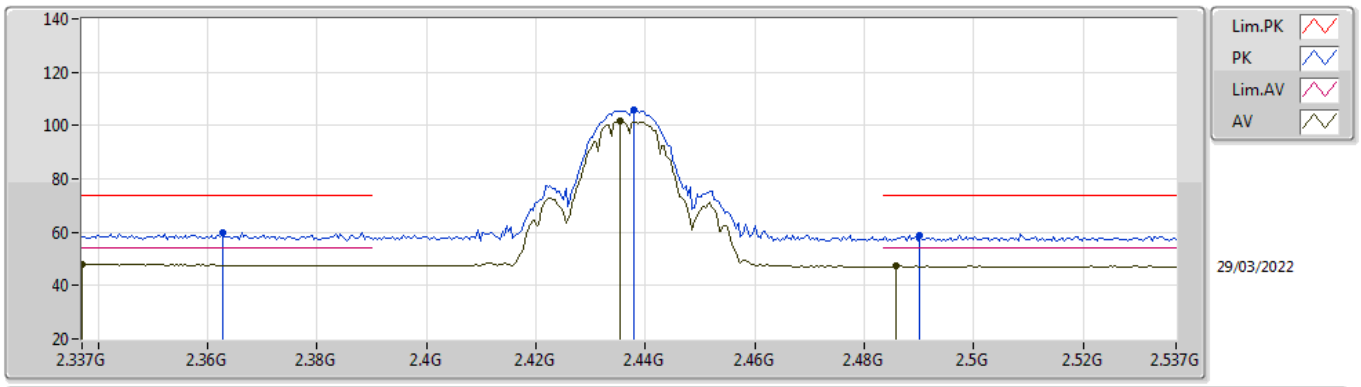
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.83403G	45.70	54.00	-8.30	5.92	3	Horizontal	292	1.16	-	39.78	31.17	8.93	34.18
AV	7.25026G	37.61	54.00	-16.39	12.36	3	Horizontal	21	1.00	-	25.25	36.30	10.56	34.50
PK	4.83401G	50.02	74.00	-23.98	5.92	3	Horizontal	292	1.16	-	44.10	31.17	8.93	34.18
PK	7.25468G	50.80	74.00	-23.20	12.37	3	Horizontal	21	1.00	-	38.43	36.31	10.56	34.50

802.11b_Nss1,(1Mbps)_1TX

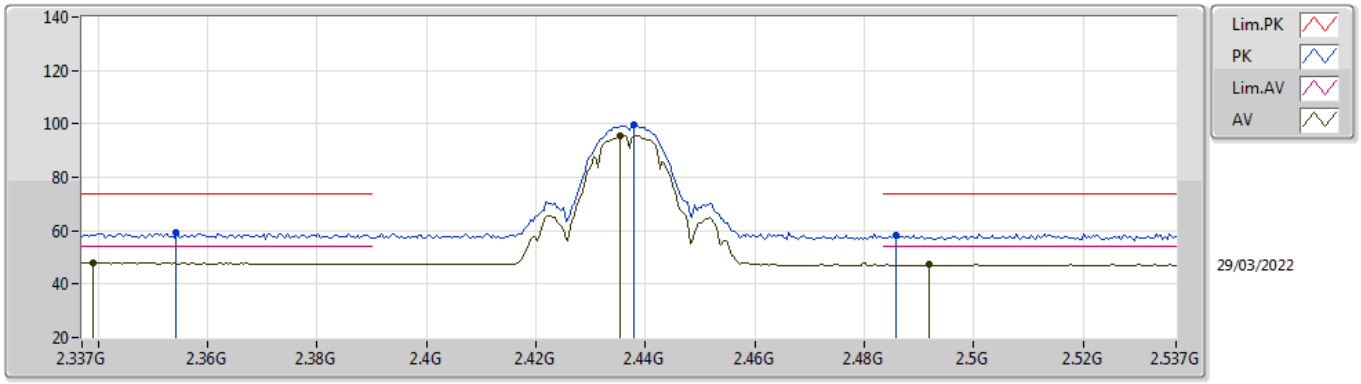
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.337G	47.82	54.00	-6.18	35.06	3	Vertical	195	1.59	-	12.76	27.83	7.23	-
AV	2.4354G	101.76	Inf	-Inf	34.78	3	Vertical	195	1.59	-	66.98	27.49	7.29	-
AV	2.4858G	47.24	54.00	-6.76	34.73	3	Vertical	195	1.59	-	12.51	27.40	7.33	-
PK	2.3626G	60.04	74.00	-13.96	35.01	3	Vertical	195	1.59	-	25.03	27.77	7.24	-
PK	2.4378G	105.61	Inf	-Inf	34.76	3	Vertical	195	1.59	-	70.85	27.47	7.29	-
PK	2.4902G	59.01	74.00	-14.99	34.73	3	Vertical	195	1.59	-	24.28	27.40	7.33	-

802.11b_Nss1,(1Mbps)_1TX

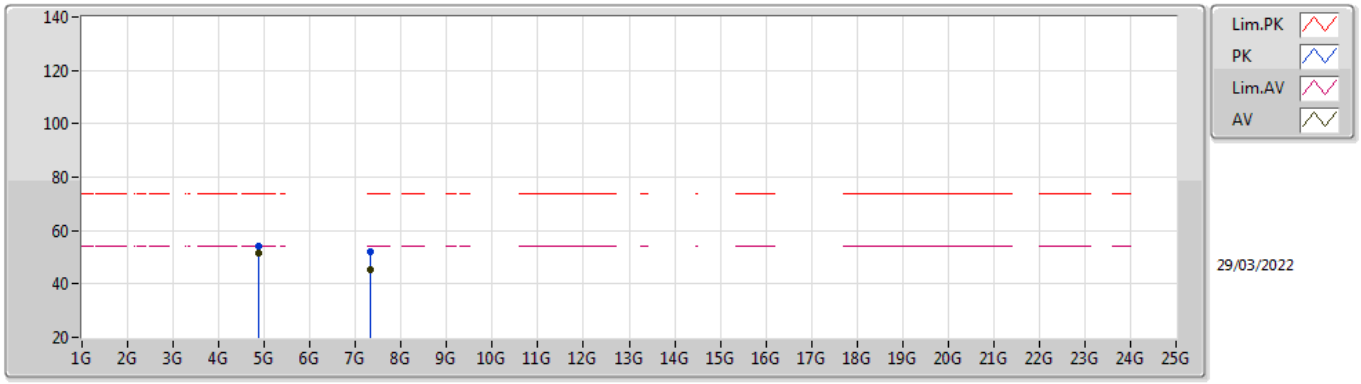
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.339G	47.88	54.00	-6.12	35.05	3	Horizontal	360	1.16	-	12.83	27.82	7.23	-
AV	2.4354G	95.45	Inf	-Inf	34.78	3	Horizontal	360	1.16	-	60.67	27.49	7.29	-
AV	2.4918G	47.23	54.00	-6.77	34.73	3	Horizontal	360	1.16	-	12.50	27.40	7.33	-
PK	2.3542G	59.17	74.00	-14.83	35.03	3	Horizontal	360	1.16	-	24.14	27.79	7.24	-
PK	2.4378G	99.48	Inf	-Inf	34.76	3	Horizontal	360	1.16	-	64.72	27.47	7.29	-
PK	2.4858G	58.25	74.00	-15.75	34.73	3	Horizontal	360	1.16	-	23.52	27.40	7.33	-

802.11b_Nss1,(1Mbps)_1TX

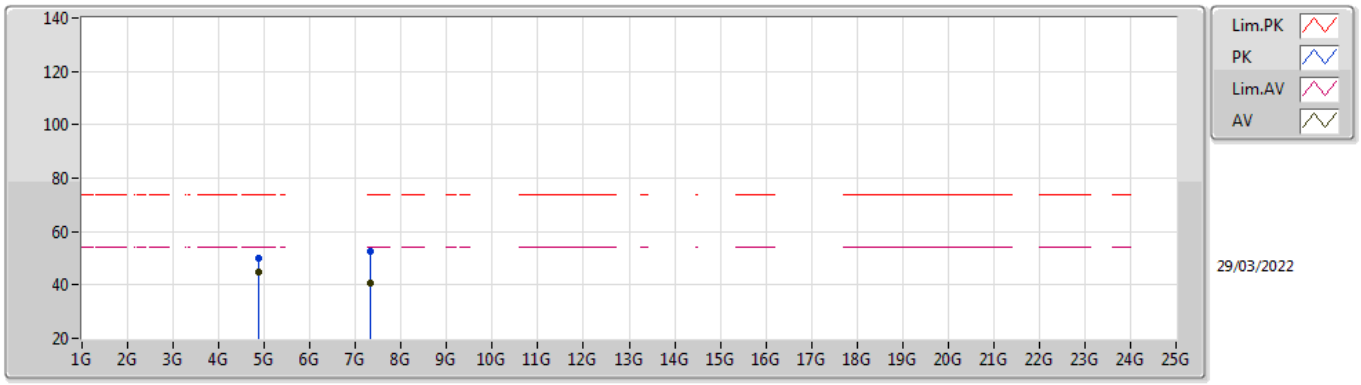
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87399G	51.51	54.00	-2.49	6.00	3	Vertical	24	1.18	-	45.51	31.20	8.96	34.16
AV	7.3103G	45.33	54.00	-8.67	12.50	3	Vertical	35	1.18	-	32.83	36.38	10.62	34.50
PK	4.87397G	54.21	74.00	-19.79	6.00	3	Vertical	24	1.18	-	48.21	31.20	8.96	34.16
PK	7.3125G	52.02	74.00	-21.98	12.49	3	Vertical	35	1.18	-	39.53	36.37	10.62	34.50

802.11b_Nss1,(1Mbps)_1TX

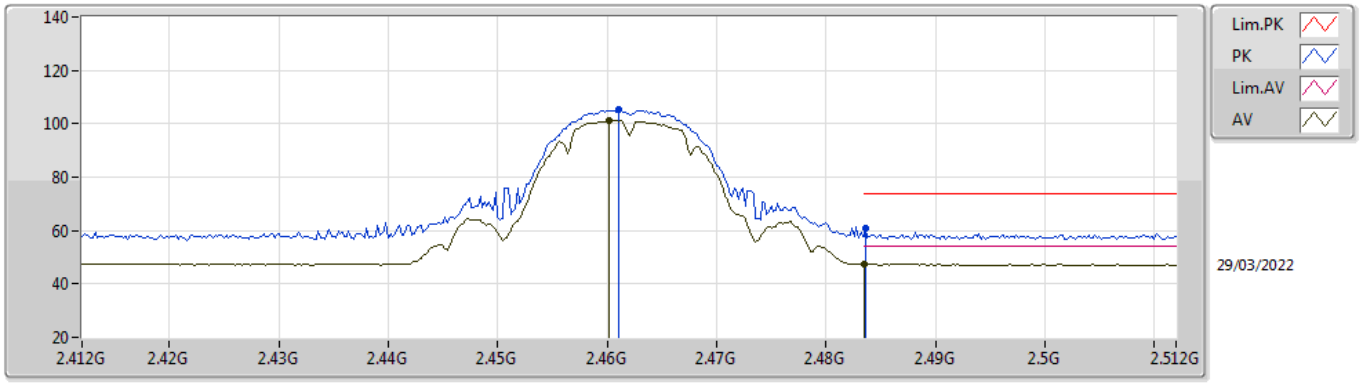
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87399G	45.02	54.00	-8.98	6.00	3	Horizontal	304	1.19	-	39.02	31.20	8.96	34.16
AV	7.31027G	40.80	54.00	-13.20	12.50	3	Horizontal	151	1.07	-	28.30	36.38	10.62	34.50
PK	4.87395G	49.95	74.00	-24.05	6.00	3	Horizontal	304	1.19	-	43.95	31.20	8.96	34.16
PK	7.3112G	52.63	74.00	-21.37	12.50	3	Horizontal	151	1.07	-	40.13	36.38	10.62	34.50

802.11b_Nss1,(1Mbps)_1TX

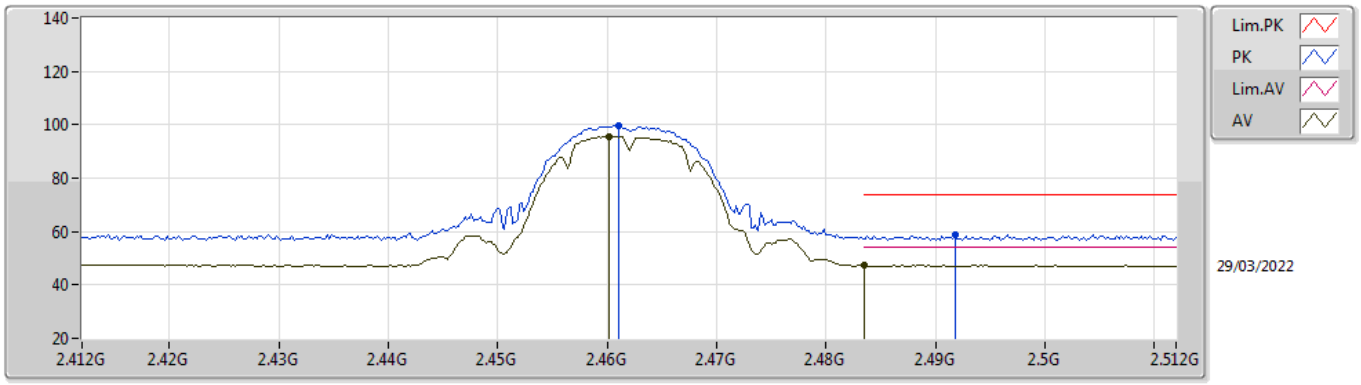
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4602G	101.23	Inf	-Inf	34.71	3	Vertical	200	1.50	-	66.52	27.40	7.31	-
AV	2.4835G	47.43	54.00	-6.57	34.73	3	Vertical	200	1.50	-	12.70	27.40	7.33	-
PK	2.461G	105.18	Inf	-Inf	34.71	3	Vertical	200	1.50	-	70.47	27.40	7.31	-
PK	2.4836G	60.61	74.00	-13.39	34.73	3	Vertical	200	1.50	-	25.88	27.40	7.33	-

802.11b_Nss1,(1Mbps)_1TX

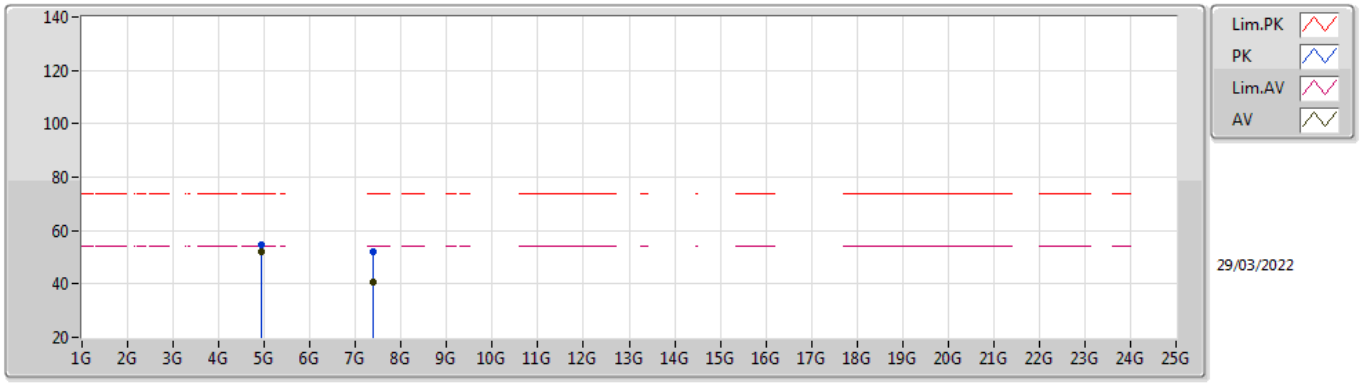
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4602G	95.76	Inf	-Inf	34.71	3	Horizontal	360	1.08	-	61.05	27.40	7.31	-
AV	2.4835G	47.19	54.00	-6.81	34.73	3	Horizontal	360	1.08	-	12.46	27.40	7.33	-
PK	2.461G	99.56	Inf	-Inf	34.71	3	Horizontal	360	1.08	-	64.85	27.40	7.31	-
PK	2.4918G	59.01	74.00	-14.99	34.73	3	Horizontal	360	1.08	-	24.28	27.40	7.33	-

802.11b_Nss1,(1Mbps)_1TX

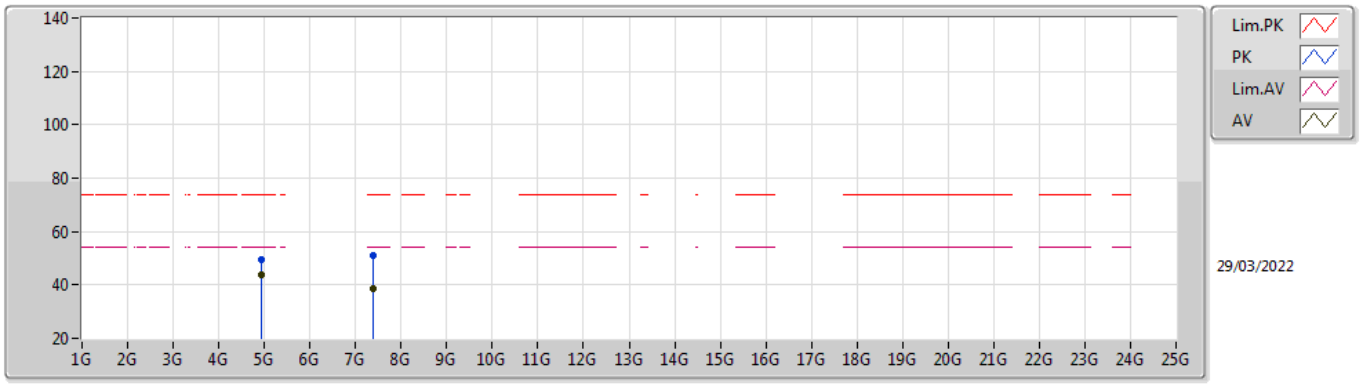
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.924G	51.92	54.00	-2.08	6.15	3	Vertical	30	1.00	-	45.77	31.30	8.99	34.14
AV	7.38673G	40.52	54.00	-13.48	12.44	3	Vertical	6	1.00	-	28.08	36.23	10.70	34.49
PK	4.92414G	54.61	74.00	-19.39	6.15	3	Vertical	30	1.00	-	48.46	31.30	8.99	34.14
PK	7.38549G	52.03	74.00	-21.97	12.44	3	Vertical	6	1.00	-	39.59	36.23	10.70	34.49

802.11b_Nss1,(1Mbps)_1TX

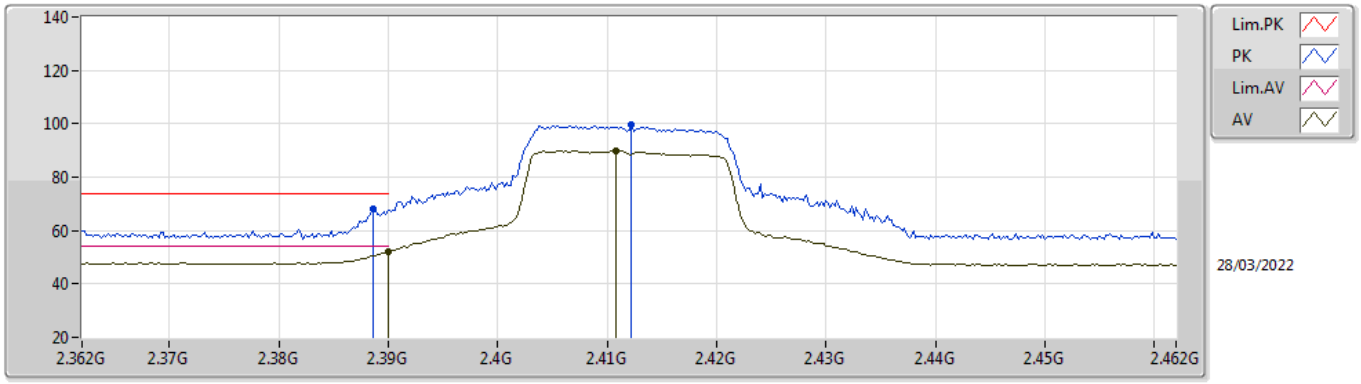
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92402G	43.95	54.00	-10.05	6.15	3	Horizontal	309	3.00	-	37.80	31.30	8.99	34.14
AV	7.38533G	38.80	54.00	-15.20	12.44	3	Horizontal	260	3.00	-	26.36	36.23	10.70	34.49
PK	4.92394G	49.30	74.00	-24.70	6.15	3	Horizontal	309	3.00	-	43.15	31.30	8.99	34.14
PK	7.38568G	51.14	74.00	-22.86	12.44	3	Horizontal	260	3.00	-	38.70	36.23	10.70	34.49

802.11g_Nss1,(6Mbps)_1TX

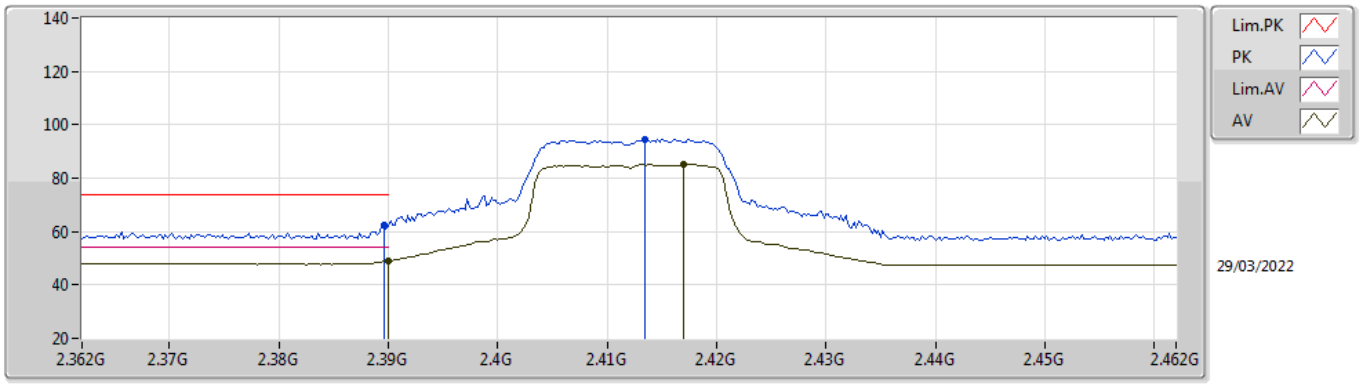
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	51.88	54.00	-2.12	34.98	3	Vertical	75	1.22	-	16.90	27.72	7.26	-
AV	2.4108G	89.83	Inf	-Inf	34.91	3	Vertical	75	1.22	-	54.92	27.64	7.27	-
PK	2.3886G	67.85	74.00	-6.15	34.97	3	Vertical	75	1.22	-	32.88	27.72	7.25	-
PK	2.4122G	99.43	Inf	-Inf	34.90	3	Vertical	75	1.22	-	64.53	27.63	7.27	-

802.11g_Nss1,(6Mbps)_1TX

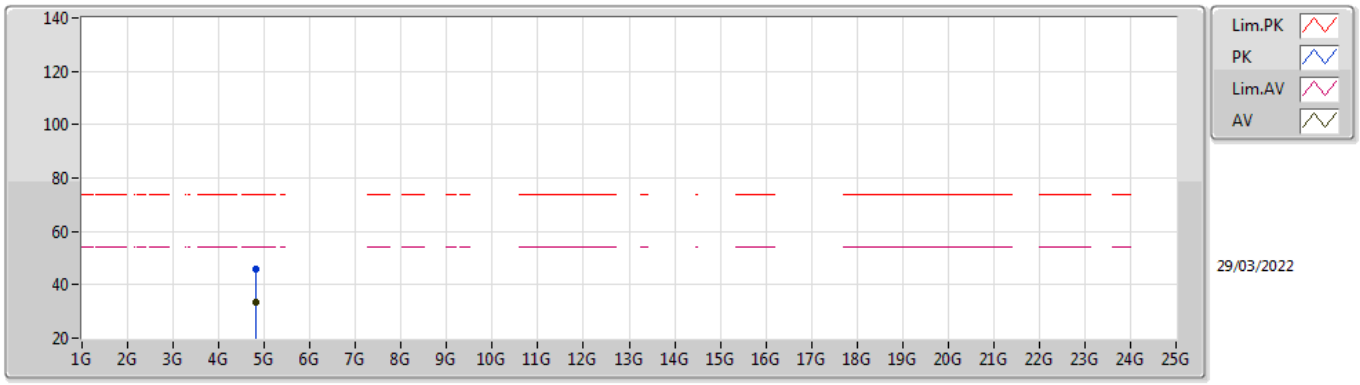
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	48.90	54.00	-5.10	34.98	3	Horizontal	144	2.10	-	13.92	27.72	7.26	-
AV	2.417G	84.93	Inf	-Inf	34.87	3	Horizontal	144	2.10	-	50.06	27.60	7.27	-
PK	2.3896G	62.18	74.00	-11.82	34.98	3	Horizontal	144	2.10	-	27.20	27.72	7.26	-
PK	2.4134G	94.47	Inf	-Inf	34.89	3	Horizontal	144	2.10	-	59.58	27.62	7.27	-

802.11g_Nss1,(6Mbps)_1TX

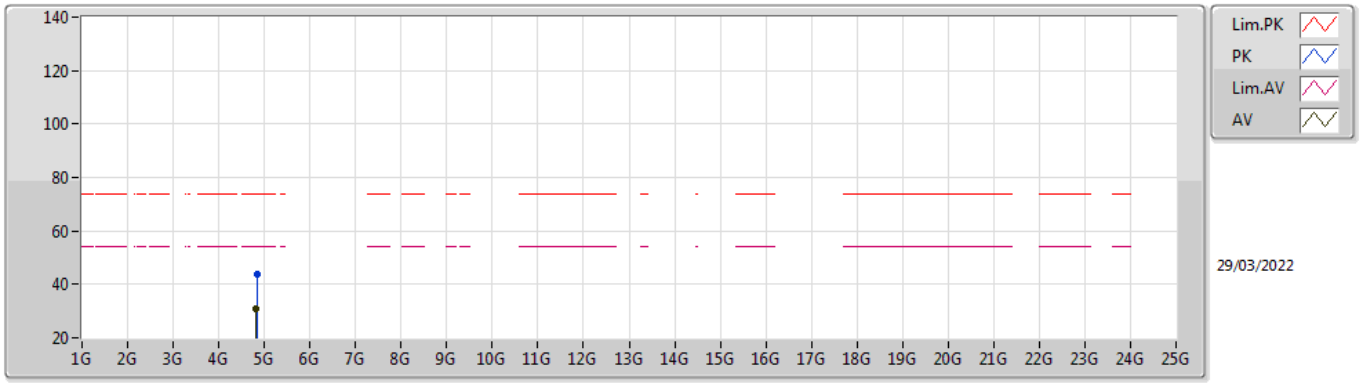
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82404G	33.49	54.00	-20.51	5.89	3	Vertical	23	1.26	-	27.60	31.15	8.92	34.18
PK	4.8257G	45.70	74.00	-28.30	5.89	3	Vertical	23	1.26	-	39.81	31.15	8.92	34.18

802.11g_Nss1,(6Mbps)_1TX

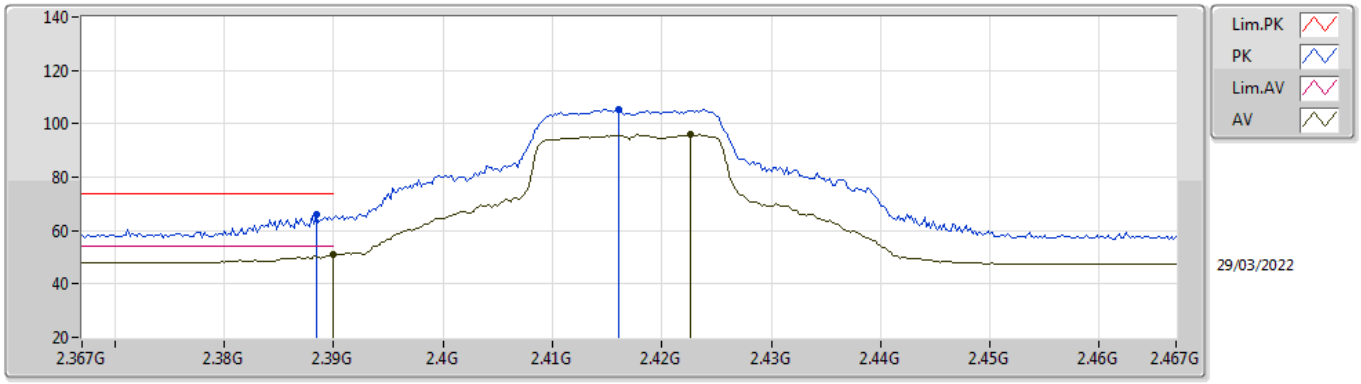
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82408G	30.86	54.00	-23.14	5.89	3	Horizontal	287	2.99	-	24.97	31.15	8.92	34.18
PK	4.8288G	43.70	74.00	-30.30	5.90	3	Horizontal	287	2.99	-	37.80	31.16	8.92	34.18

802.11g_Nss1,(6Mbps)_1TX

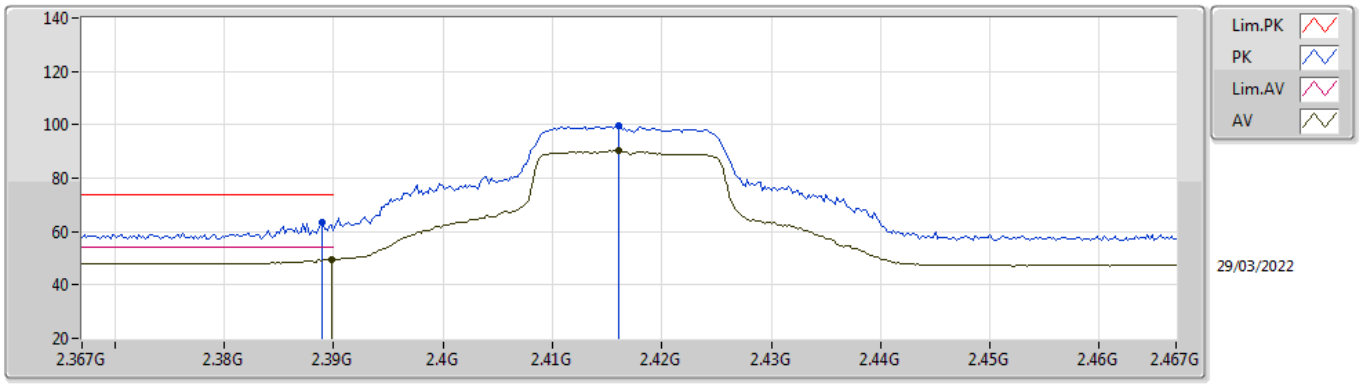
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	51.19	54.00	-2.81	34.98	3	Vertical	199	1.70	-	16.21	27.72	7.26	-
AV	2.4226G	95.97	Inf	-Inf	34.84	3	Vertical	199	1.70	-	61.13	27.56	7.28	-
PK	2.3884G	66.29	74.00	-7.71	34.97	3	Vertical	199	1.70	-	31.32	27.72	7.25	-
PK	2.416G	105.20	Inf	-Inf	34.87	3	Vertical	199	1.70	-	70.33	27.60	7.27	-

802.11g_Nss1,(6Mbps)_1TX

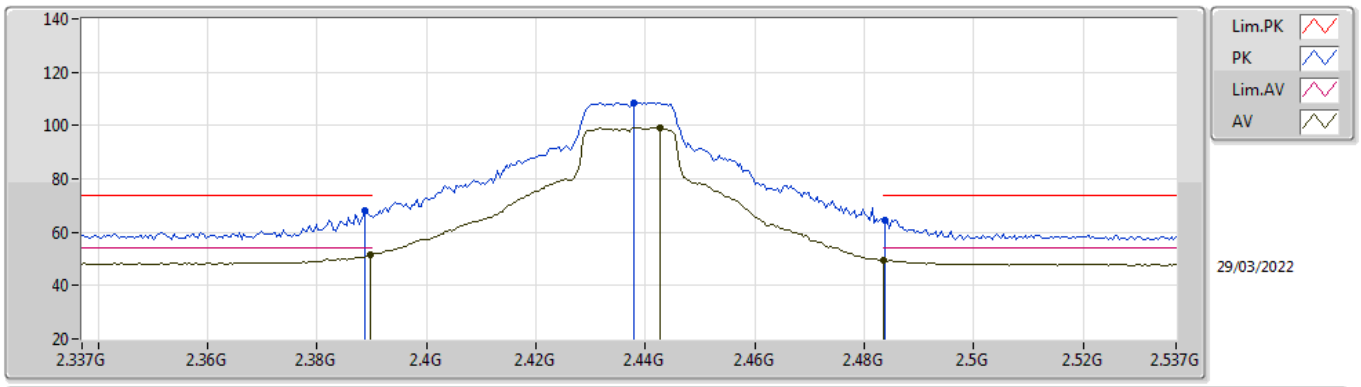
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	49.72	54.00	-4.28	34.98	3	Horizontal	146	2.12	-	14.74	27.72	7.26	-
AV	2.416G	90.27	Inf	-Inf	34.87	3	Horizontal	146	2.12	-	55.40	27.60	7.27	-
PK	2.389G	63.54	74.00	-10.46	34.98	3	Horizontal	146	2.12	-	28.56	27.72	7.26	-
PK	2.416G	99.51	Inf	-Inf	34.87	3	Horizontal	146	2.12	-	64.64	27.60	7.27	-

802.11g_Nss1,(6Mbps)_1TX

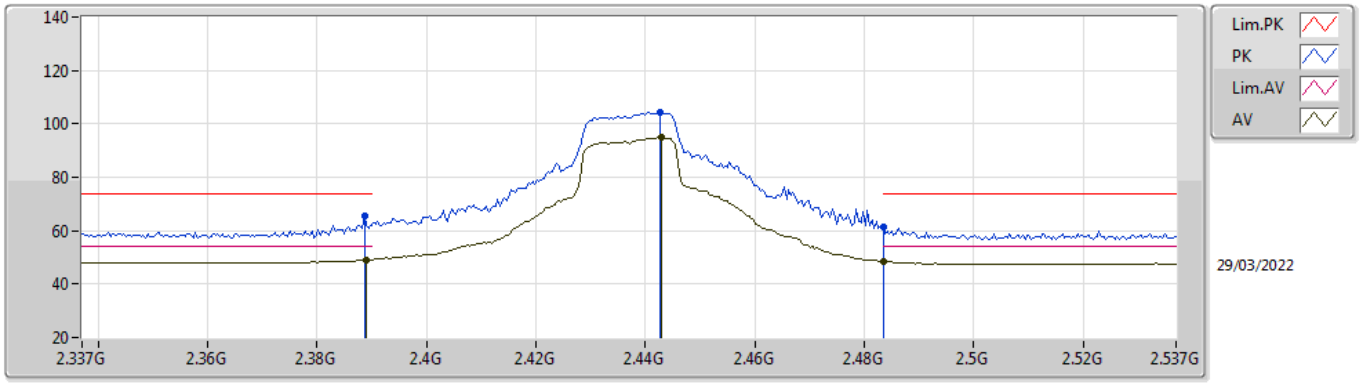
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	51.59	54.00	-2.41	34.98	3	Vertical	283	1.13	-	16.61	27.72	7.26	-
AV	2.4426G	99.27	Inf	-Inf	34.73	3	Vertical	283	1.13	-	64.54	27.44	7.29	-
AV	2.4835G	49.63	54.00	-4.37	34.73	3	Vertical	283	1.13	-	14.90	27.40	7.33	-
PK	2.3886G	67.92	74.00	-6.08	34.97	3	Vertical	283	1.13	-	32.95	27.72	7.25	-
PK	2.4378G	108.67	Inf	-Inf	34.76	3	Vertical	283	1.13	-	73.91	27.47	7.29	-
PK	2.4838G	64.68	74.00	-9.32	34.73	3	Vertical	283	1.13	-	29.95	27.40	7.33	-

802.11g_Nss1,(6Mbps)_1TX

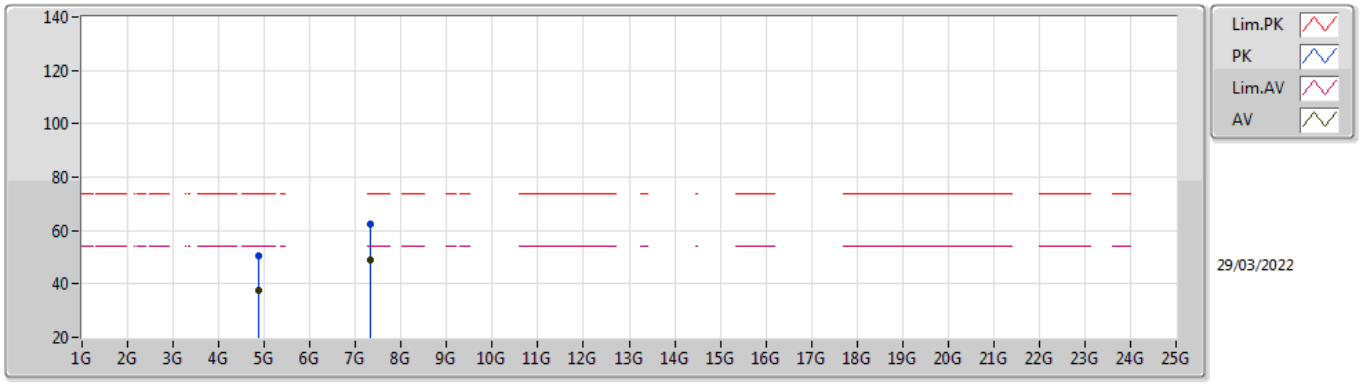
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.389G	49.16	54.00	-4.84	34.98	3	Horizontal	357	1.01	-	14.18	27.72	7.26	-
AV	2.443G	94.89	Inf	-Inf	34.73	3	Horizontal	357	1.01	-	60.16	27.44	7.29	-
AV	2.4835G	48.37	54.00	-5.63	34.73	3	Horizontal	357	1.01	-	13.64	27.40	7.33	-
PK	2.3886G	65.72	74.00	-8.28	34.97	3	Horizontal	357	1.01	-	30.75	27.72	7.25	-
PK	2.4426G	104.53	Inf	-Inf	34.73	3	Horizontal	357	1.01	-	69.80	27.44	7.29	-
PK	2.4835G	61.46	74.00	-12.54	34.73	3	Horizontal	357	1.01	-	26.73	27.40	7.33	-

802.11g_Nss1,(6Mbps)_1TX

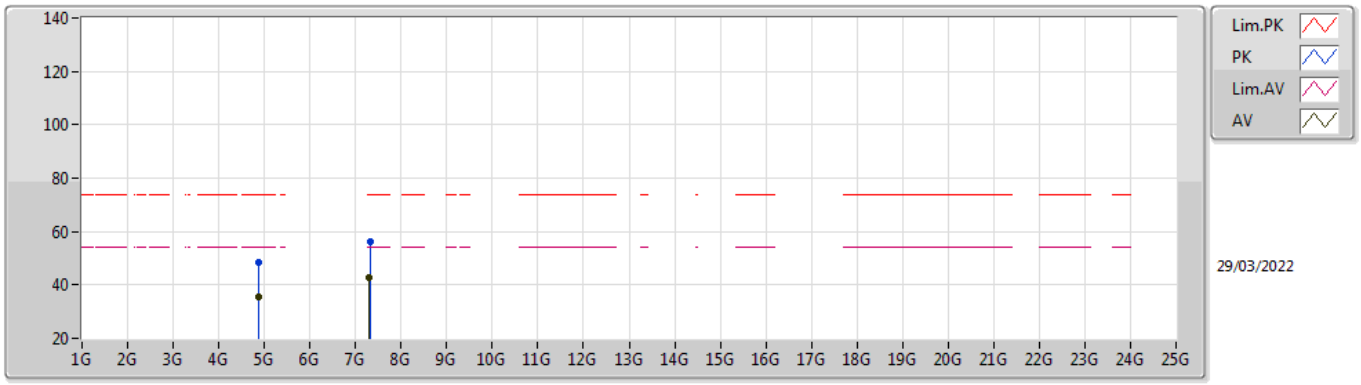
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87376G	37.79	54.00	-16.21	6.00	3	Vertical	24	1.11	-	31.79	31.20	8.96	34.16
AV	7.31124G	48.71	54.00	-5.29	12.50	3	Vertical	7	1.00	-	36.21	36.38	10.62	34.50
PK	4.87296G	50.76	74.00	-23.24	5.99	3	Vertical	24	1.11	-	44.77	31.20	8.95	34.16
PK	7.31216G	62.17	74.00	-11.83	12.50	3	Vertical	7	1.00	-	49.67	36.38	10.62	34.50

802.11g_Nss1,(6Mbps)_1TX

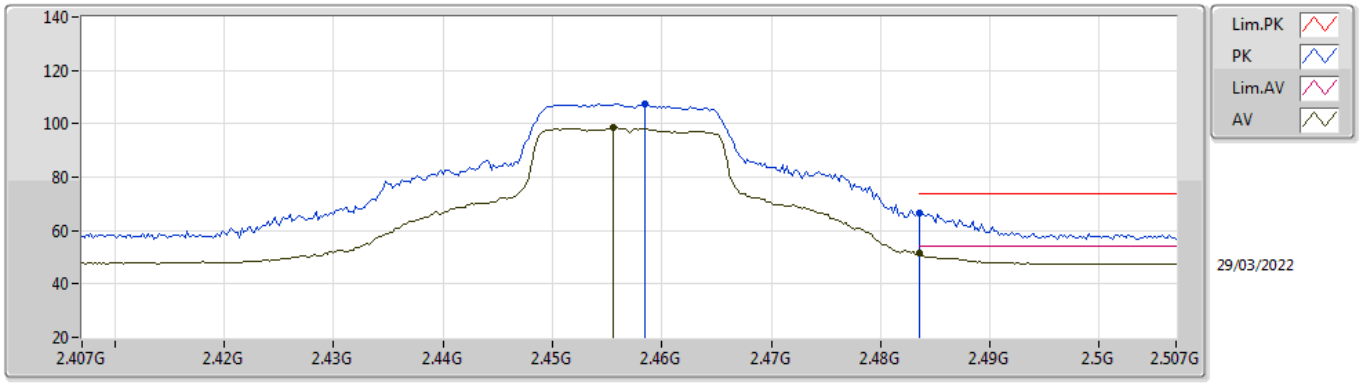
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	4.873G	48.68	74.00	-25.32	5.99	3	Horizontal	303	1.00	-	42.69	31.20	8.95	34.16
AV	4.87496G	35.29	54.00	-18.71	6.00	3	Horizontal	303	1.00	-	29.29	31.20	8.96	34.16
PK	7.3122G	55.99	74.00	-18.01	12.50	3	Horizontal	151	3.00	-	43.49	36.38	10.62	34.50
AV	7.30868G	42.58	54.00	-11.42	12.50	3	Horizontal	151	3.00	-	30.08	36.38	10.62	34.50

802.11g_Nss1,(6Mbps)_1TX

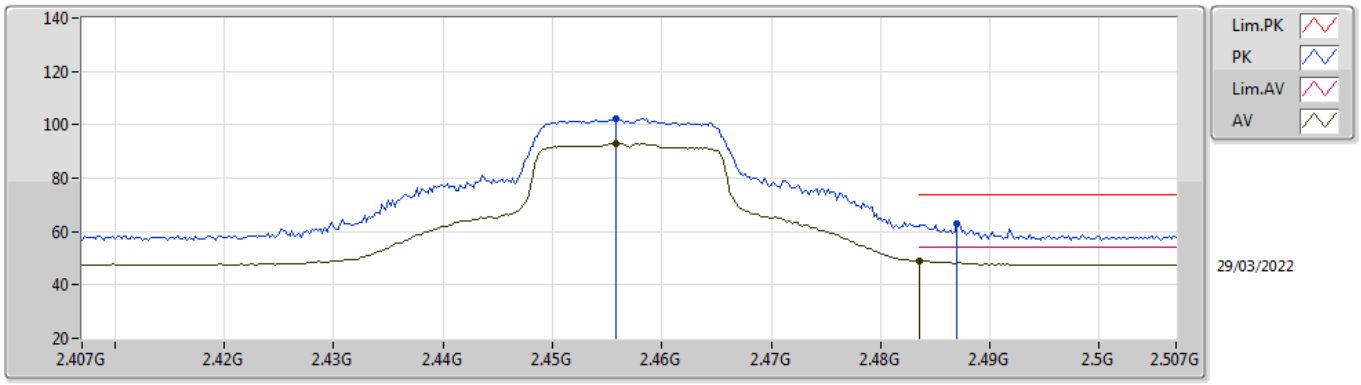
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4556G	98.49	Inf	-Inf	34.70	3	Vertical	200	1.50	-	63.79	27.40	7.30	-
AV	2.4835G	51.43	54.00	-2.57	34.73	3	Vertical	200	1.50	-	16.70	27.40	7.33	-
PK	2.4584G	107.50	Inf	-Inf	34.71	3	Vertical	200	1.50	-	72.79	27.40	7.31	-
PK	2.4836G	66.35	74.00	-7.65	34.73	3	Vertical	200	1.50	-	31.62	27.40	7.33	-

802.11g_Nss1,(6Mbps)_1TX

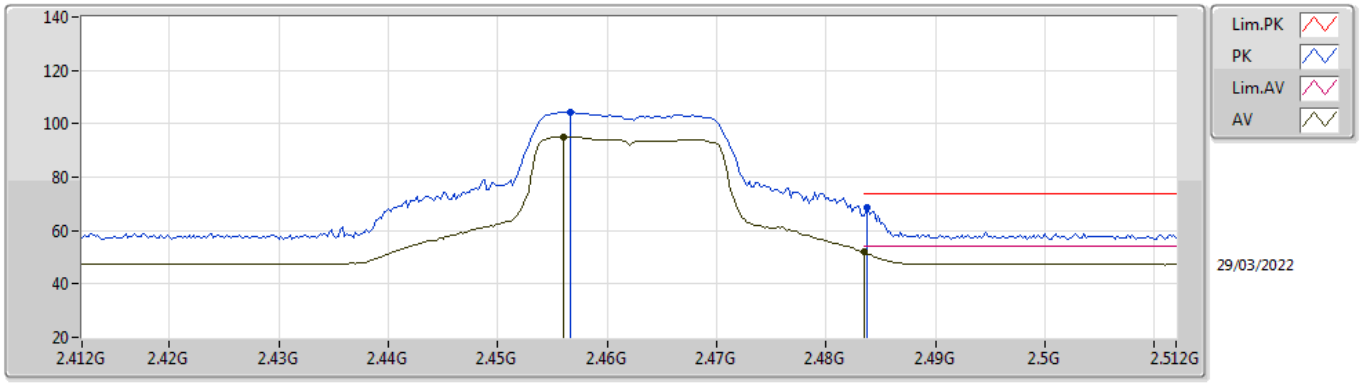
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4558G	93.07	Inf	-Inf	34.70	3	Horizontal	360	1.07	-	58.37	27.40	7.30	-
AV	2.4835G	49.11	54.00	-4.89	34.73	3	Horizontal	360	1.07	-	14.38	27.40	7.33	-
PK	2.4558G	102.25	Inf	-Inf	34.70	3	Horizontal	360	1.07	-	67.55	27.40	7.30	-
PK	2.487G	62.85	74.00	-11.15	34.73	3	Horizontal	360	1.07	-	28.12	27.40	7.33	-

802.11g_Nss1,(6Mbps)_1TX

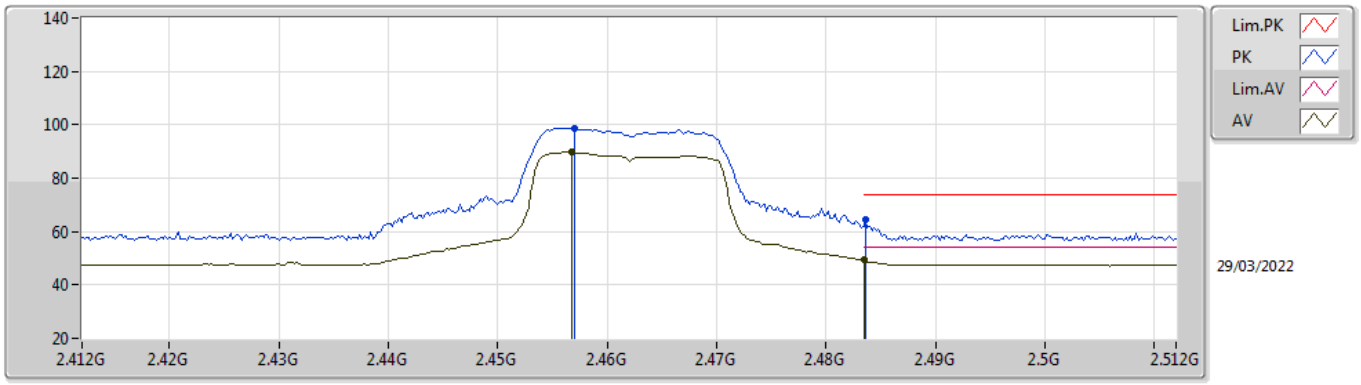
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.456G	95.14	Inf	-Inf	34.70	3	Vertical	198	1.50	-	60.44	27.40	7.30	-
AV	2.4835G	51.82	54.00	-2.18	34.73	3	Vertical	198	1.50	-	17.09	27.40	7.33	-
PK	2.4566G	104.41	Inf	-Inf	34.71	3	Vertical	198	1.50	-	69.70	27.40	7.31	-
PK	2.4838G	68.77	74.00	-5.23	34.73	3	Vertical	198	1.50	-	34.04	27.40	7.33	-

802.11g_Nss1,(6Mbps)_1TX

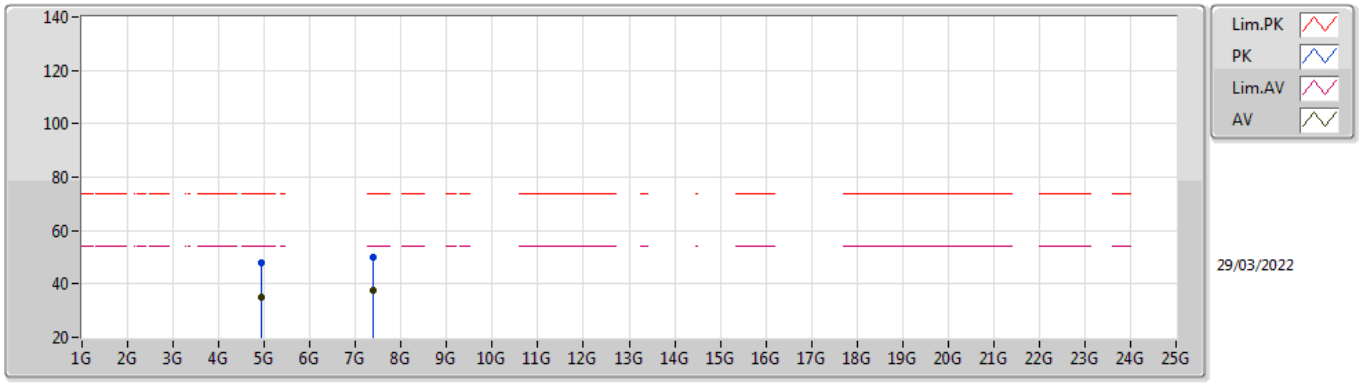
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4568G	89.65	Inf	-Inf	34.71	3	Horizontal	360	1.06	-	54.94	27.40	7.31	-
AV	2.4835G	49.49	54.00	-4.51	34.73	3	Horizontal	360	1.06	-	14.76	27.40	7.33	-
PK	2.457G	98.86	Inf	-Inf	34.71	3	Horizontal	360	1.06	-	64.15	27.40	7.31	-
PK	2.4836G	64.60	74.00	-9.40	34.73	3	Horizontal	360	1.06	-	29.87	27.40	7.33	-

802.11g_Nss1,(6Mbps)_1TX

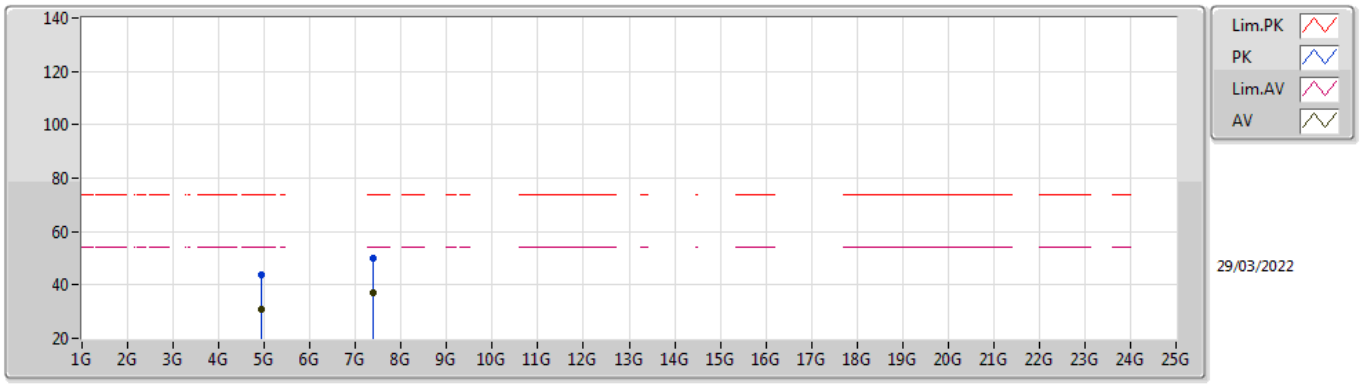
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92412G	35.17	54.00	-18.83	6.15	3	Vertical	24	1.23	-	29.02	31.30	8.99	34.14
AV	7.3881G	37.38	54.00	-16.62	12.43	3	Vertical	2	1.38	-	24.95	36.22	10.70	34.49
PK	4.9246G	48.05	74.00	-25.95	6.15	3	Vertical	24	1.23	-	41.90	31.30	8.99	34.14
PK	7.38288G	50.25	74.00	-23.75	12.43	3	Vertical	2	1.38	-	37.82	36.23	10.69	34.49

802.11g_Nss1,(6Mbps)_1TX

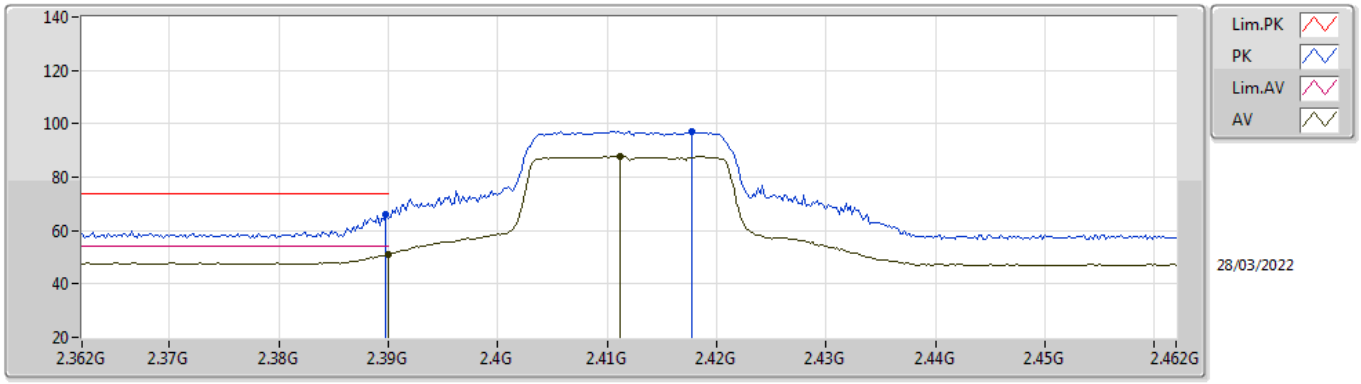
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.9259G	30.98	54.00	-23.02	6.15	3	Horizontal	328	2.90	-	24.83	31.30	8.99	34.14
AV	7.38426G	37.02	54.00	-16.98	12.43	3	Horizontal	360	1.47	-	24.59	36.23	10.69	34.49
PK	4.92852G	43.85	74.00	-30.15	6.18	3	Horizontal	328	2.90	-	37.67	31.31	9.00	34.13
PK	7.38248G	50.11	74.00	-23.89	12.44	3	Horizontal	360	1.47	-	37.67	36.24	10.69	34.49

802.11n HT20_Nss1,(MCS0)_1TX

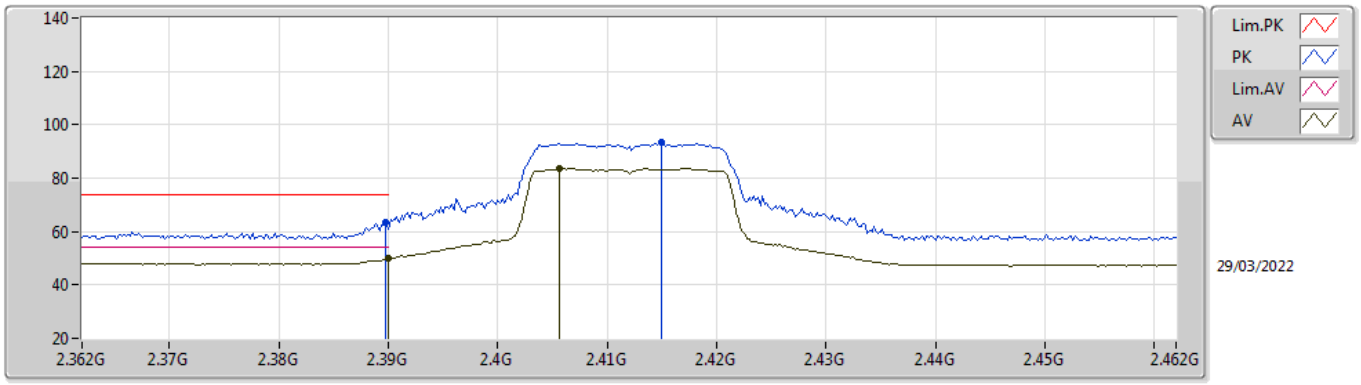
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	50.97	54.00	-3.03	34.98	3	Vertical	300	1.28	-	15.99	27.72	7.26	-
AV	2.4112G	87.87	Inf	-Inf	34.90	3	Vertical	300	1.28	-	52.97	27.63	7.27	-
PK	2.3898G	66.29	74.00	-7.71	34.98	3	Vertical	300	1.28	-	31.31	27.72	7.26	-
PK	2.4178G	97.28	Inf	-Inf	34.86	3	Vertical	300	1.28	-	62.42	27.59	7.27	-

802.11n HT20_Nss1,(MCS0)_1TX

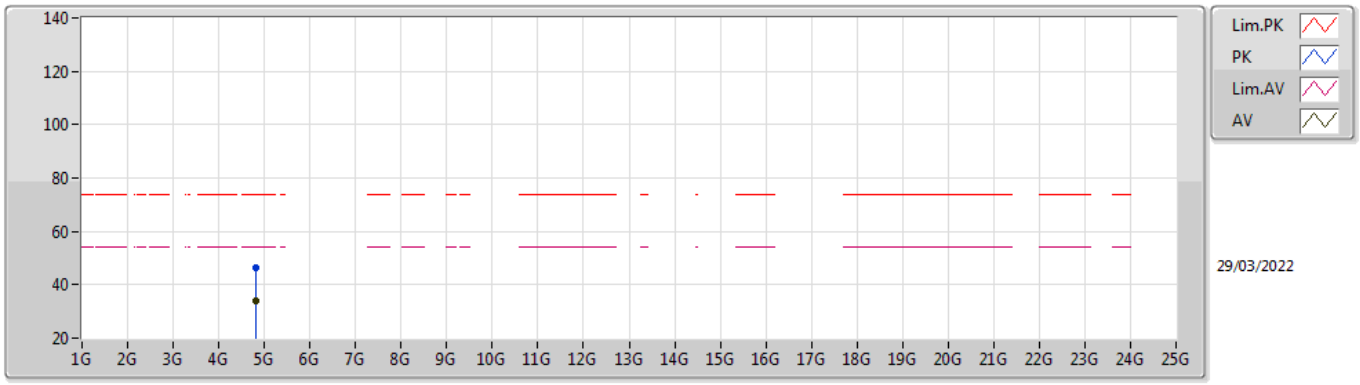
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.39G	49.75	54.00	-4.25	34.98	3	Horizontal	187	1.98	-	14.77	27.72	7.26	-
AV	2.4056G	83.58	Inf	-Inf	34.93	3	Horizontal	187	1.98	-	48.65	27.67	7.26	-
PK	2.3898G	63.24	74.00	-10.76	34.98	3	Horizontal	187	1.98	-	28.26	27.72	7.26	-
PK	2.415G	93.33	Inf	-Inf	34.88	3	Horizontal	187	1.98	-	58.45	27.61	7.27	-

802.11n HT20_Nss1,(MCS0)_1TX

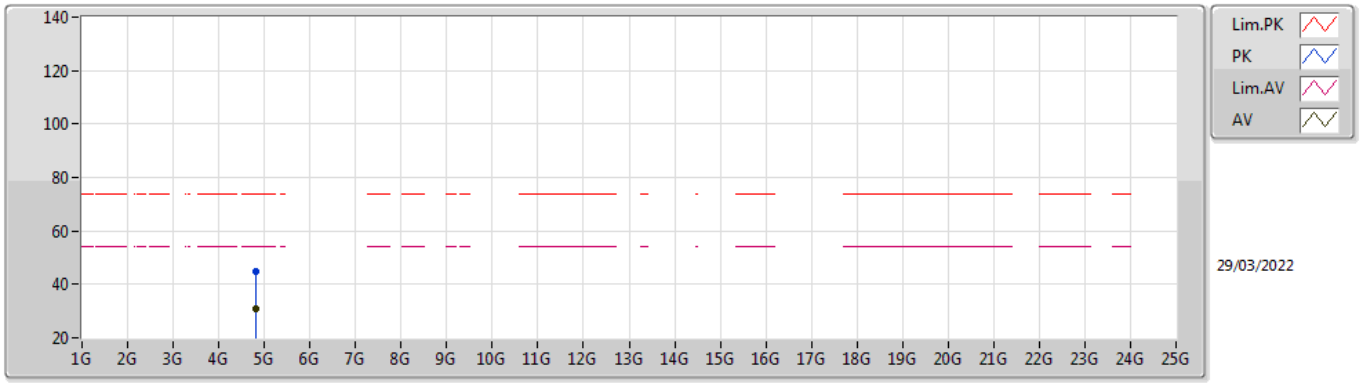
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.82412G	33.76	54.00	-20.24	5.89	3	Vertical	23	1.28	-	27.87	31.15	8.92	34.18
PK	4.8226G	46.45	74.00	-27.55	5.88	3	Vertical	23	1.28	-	40.57	31.15	8.92	34.19

802.11n HT20_Nss1,(MCS0)_1TX

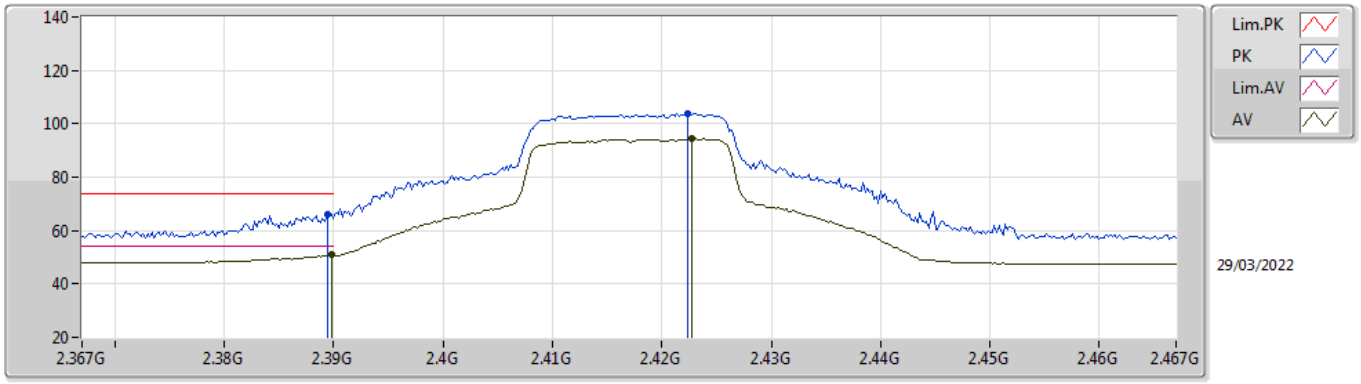
2412MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.81924G	30.93	54.00	-23.07	5.86	3	Horizontal	275	1.40	-	25.07	31.14	8.91	34.19
PK	4.82228G	44.78	74.00	-29.22	5.87	3	Horizontal	275	1.40	-	38.91	31.14	8.92	34.19

802.11n HT20_Nss1,(MCS0)_1TX

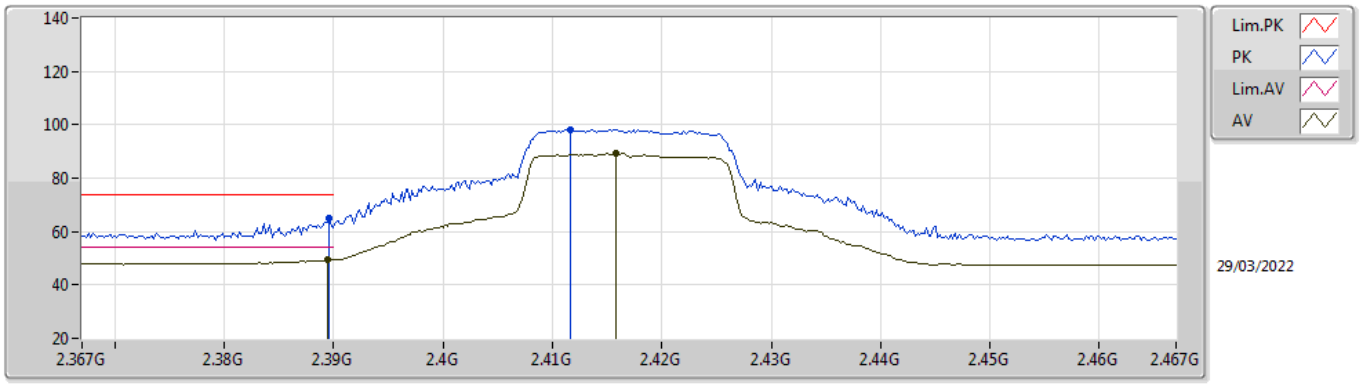
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	51.14	54.00	-2.86	34.98	3	Vertical	201	1.69	-	16.16	27.72	7.26	-
AV	2.4228G	94.32	Inf	-Inf	34.84	3	Vertical	201	1.69	-	59.48	27.56	7.28	-
PK	2.3894G	66.27	74.00	-7.73	34.98	3	Vertical	201	1.69	-	31.29	27.72	7.26	-
PK	2.4224G	103.96	Inf	-Inf	34.85	3	Vertical	201	1.69	-	69.11	27.57	7.28	-

802.11n HT20_Nss1,(MCS0)_1TX

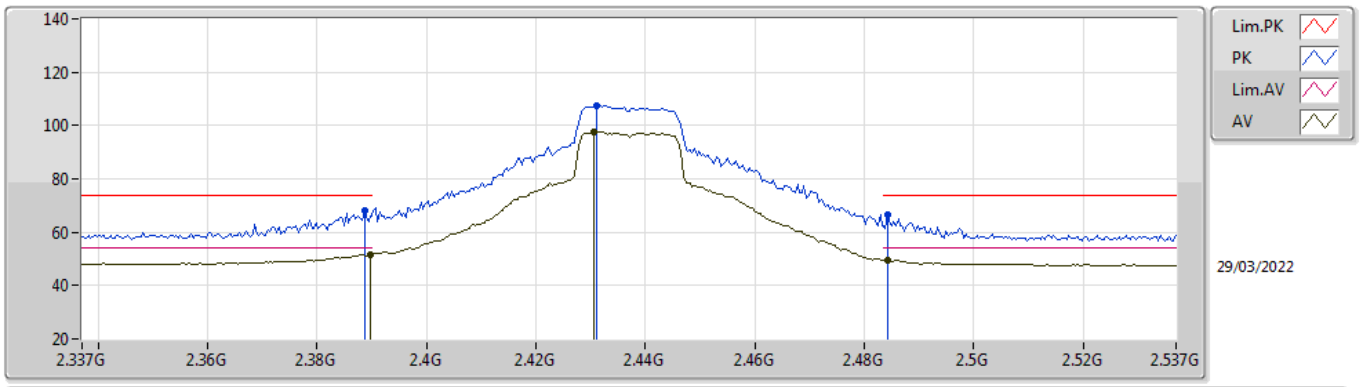
2417MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	49.39	54.00	-4.61	34.98	3	Horizontal	145	2.12	-	14.41	27.72	7.26	-
AV	2.4158G	89.22	Inf	-Inf	34.88	3	Horizontal	145	2.12	-	54.34	27.61	7.27	-
PK	2.3896G	65.12	74.00	-8.88	34.98	3	Horizontal	145	2.12	-	30.14	27.72	7.26	-
PK	2.4116G	98.31	Inf	-Inf	34.90	3	Horizontal	145	2.12	-	63.41	27.63	7.27	-

802.11n HT20_Nss1,(MCS0)_1TX

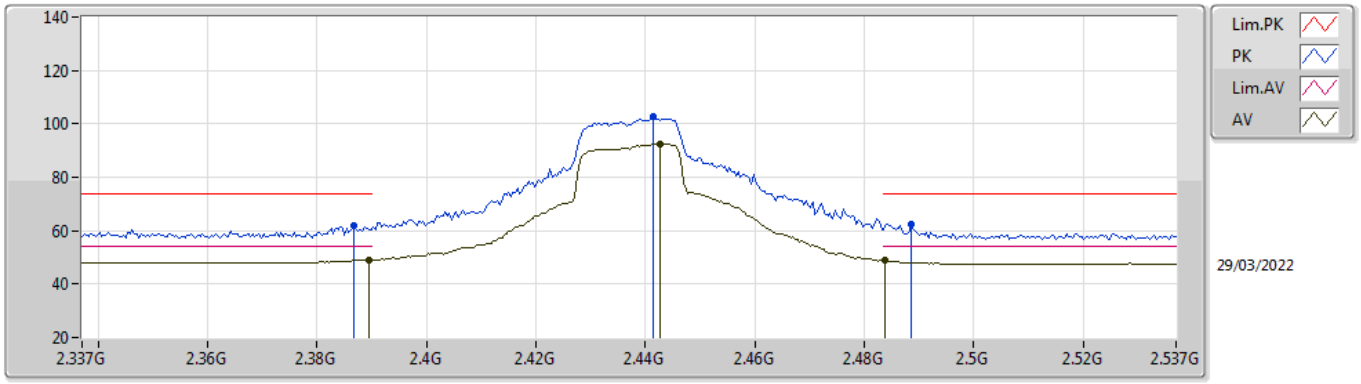
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3898G	51.45	54.00	-2.55	34.98	3	Vertical	196	1.60	-	16.47	27.72	7.26	-
AV	2.4306G	97.73	Inf	-Inf	34.80	3	Vertical	196	1.60	-	62.93	27.52	7.28	-
AV	2.4842G	49.39	54.00	-4.61	34.73	3	Vertical	196	1.60	-	14.66	27.40	7.33	-
PK	2.3886G	68.11	74.00	-5.89	34.97	3	Vertical	196	1.60	-	33.14	27.72	7.25	-
PK	2.431G	107.61	Inf	-Inf	34.79	3	Vertical	196	1.60	-	72.82	27.51	7.28	-
PK	2.4842G	66.47	74.00	-7.53	34.73	3	Vertical	196	1.60	-	31.74	27.40	7.33	-

802.11n HT20_Nss1,(MCS0)_1TX

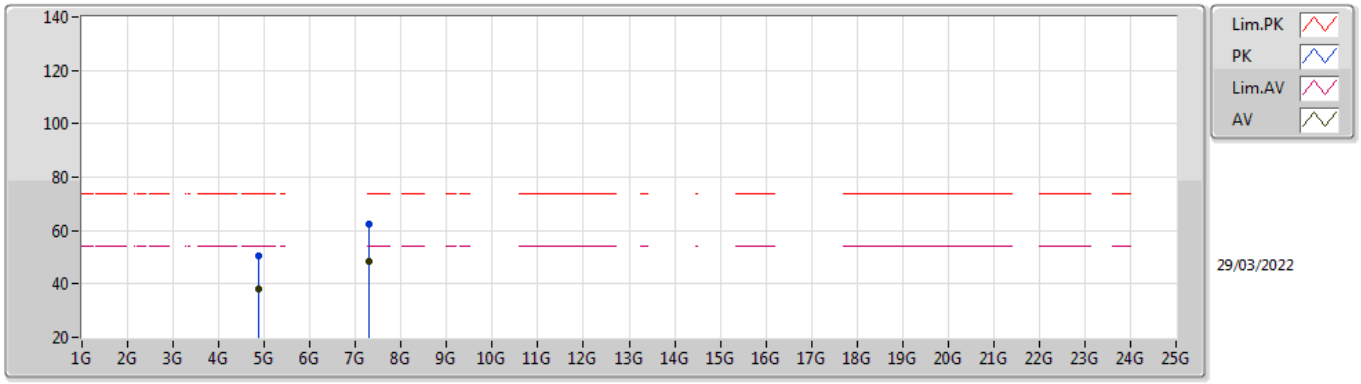
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3894G	49.10	54.00	-4.90	34.98	3	Horizontal	360	1.02	-	14.12	27.72	7.26	-
AV	2.4426G	92.67	Inf	-Inf	34.73	3	Horizontal	360	1.02	-	57.94	27.44	7.29	-
AV	2.4838G	48.84	54.00	-5.16	34.73	3	Horizontal	360	1.02	-	14.11	27.40	7.33	-
PK	2.3866G	61.75	74.00	-12.25	34.98	3	Horizontal	360	1.02	-	26.77	27.73	7.25	-
PK	2.4414G	102.75	Inf	-Inf	34.74	3	Horizontal	360	1.02	-	68.01	27.45	7.29	-
PK	2.4886G	62.48	74.00	-11.52	34.73	3	Horizontal	360	1.02	-	27.75	27.40	7.33	-

802.11n HT20_Nss1,(MCS0)_1TX

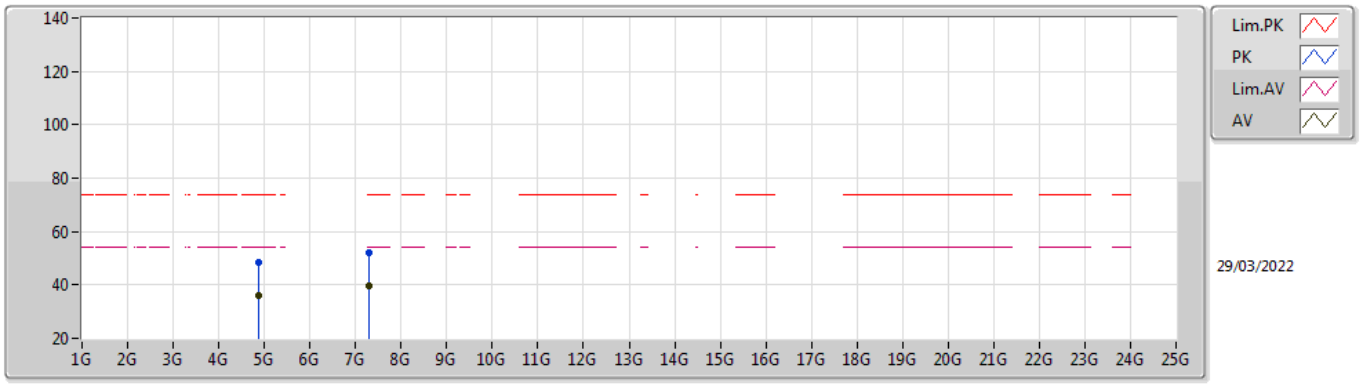
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87308G	37.86	54.00	-16.14	5.99	3	Vertical	25	1.14	-	31.87	31.20	8.95	34.16
AV	7.30944G	48.52	54.00	-5.48	12.50	3	Vertical	10	1.18	-	36.02	36.38	10.62	34.50
PK	4.87356G	50.67	74.00	-23.33	6.00	3	Vertical	25	1.14	-	44.67	31.20	8.96	34.16
PK	7.30792G	62.37	74.00	-11.63	12.50	3	Vertical	10	1.18	-	49.87	36.38	10.62	34.50

802.11n HT20_Nss1,(MCS0)_1TX

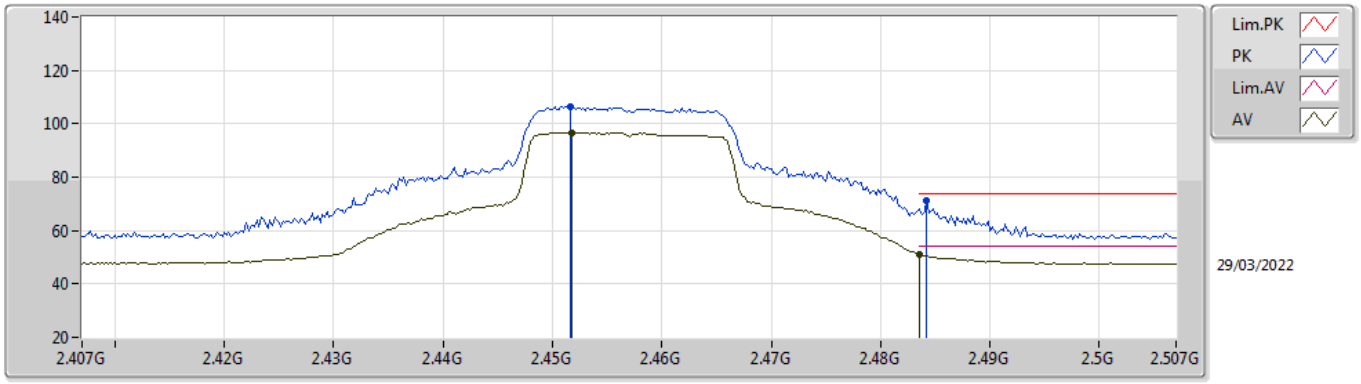
2437MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87464G	35.86	54.00	-18.14	6.00	3	Horizontal	289	1.08	-	29.86	31.20	8.96	34.16
AV	7.30904G	39.81	54.00	-14.19	12.50	3	Horizontal	346	1.21	-	27.31	36.38	10.62	34.50
PK	4.87536G	48.64	74.00	-25.36	6.00	3	Horizontal	289	1.08	-	42.64	31.20	8.96	34.16
PK	7.30292G	52.01	74.00	-21.99	12.50	3	Horizontal	346	1.21	-	39.51	36.39	10.61	34.50

802.11n HT20_Nss1,(MCS0)_1TX

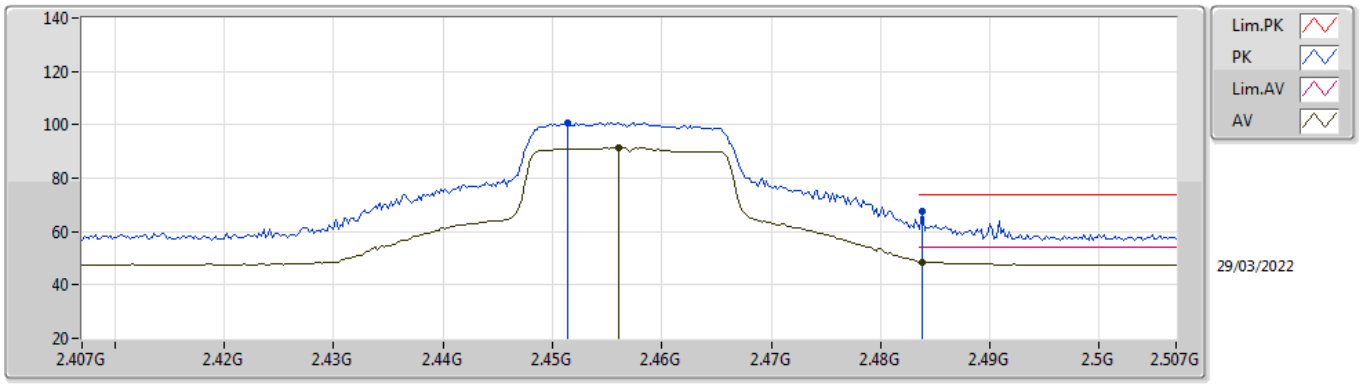
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4518G	96.77	Inf	-Inf	34.70	3	Vertical	197	1.50	-	62.07	27.40	7.30	-
AV	2.4835G	51.14	54.00	-2.86	34.73	3	Vertical	197	1.50	-	16.41	27.40	7.33	-
PK	2.4516G	106.39	Inf	-Inf	34.70	3	Vertical	197	1.50	-	71.69	27.40	7.30	-
PK	2.4842G	71.35	74.00	-2.65	34.73	3	Vertical	197	1.50	-	36.62	27.40	7.33	-

802.11n HT20_Nss1,(MCS0)_1TX

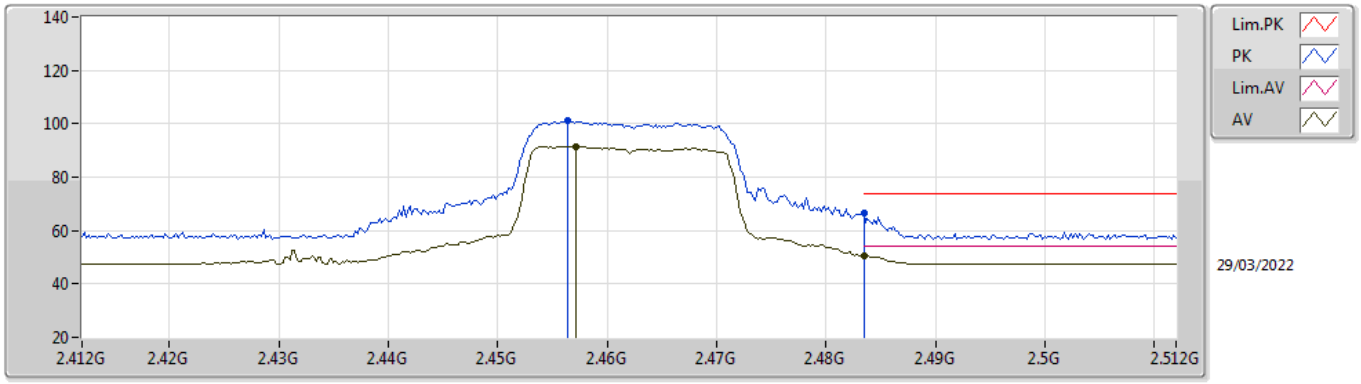
2457MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.456G	91.49	Inf	-Inf	34.70	3	Horizontal	360	1.06	-	56.79	27.40	7.30	-
AV	2.4838G	48.66	54.00	-5.34	34.73	3	Horizontal	360	1.06	-	13.93	27.40	7.33	-
PK	2.4514G	100.90	Inf	-Inf	34.70	3	Horizontal	360	1.06	-	66.20	27.40	7.30	-
PK	2.4838G	67.53	74.00	-6.47	34.73	3	Horizontal	360	1.06	-	32.80	27.40	7.33	-

802.11n HT20_Nss1,(MCS0)_1TX

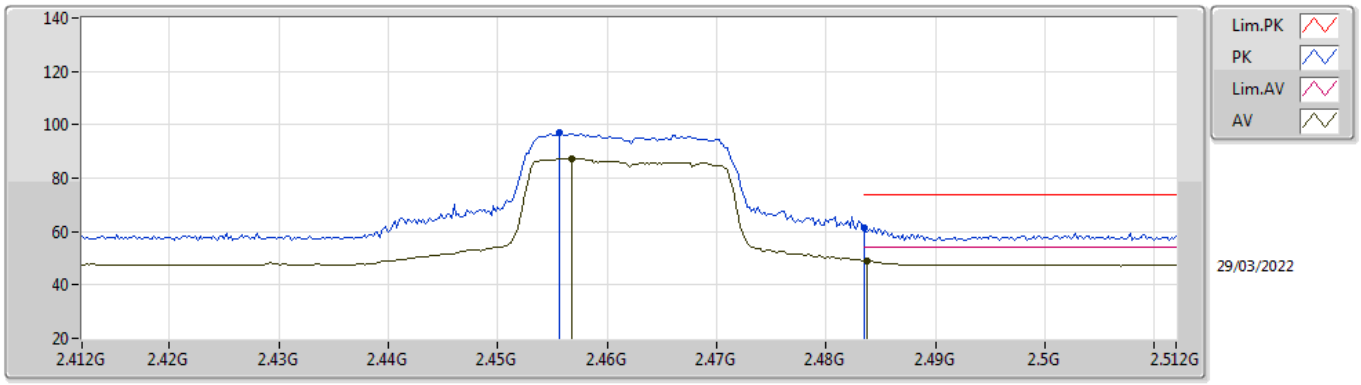
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4572G	91.51	Inf	-Inf	34.71	3	Vertical	199	1.49	-	56.80	27.40	7.31	-
AV	2.4835G	50.35	54.00	-3.65	34.73	3	Vertical	199	1.49	-	15.62	27.40	7.33	-
PK	2.4564G	101.43	Inf	-Inf	34.71	3	Vertical	199	1.49	-	66.72	27.40	7.31	-
PK	2.4835G	66.62	74.00	-7.38	34.73	3	Vertical	199	1.49	-	31.89	27.40	7.33	-

802.11n HT20_Nss1,(MCS0)_1TX

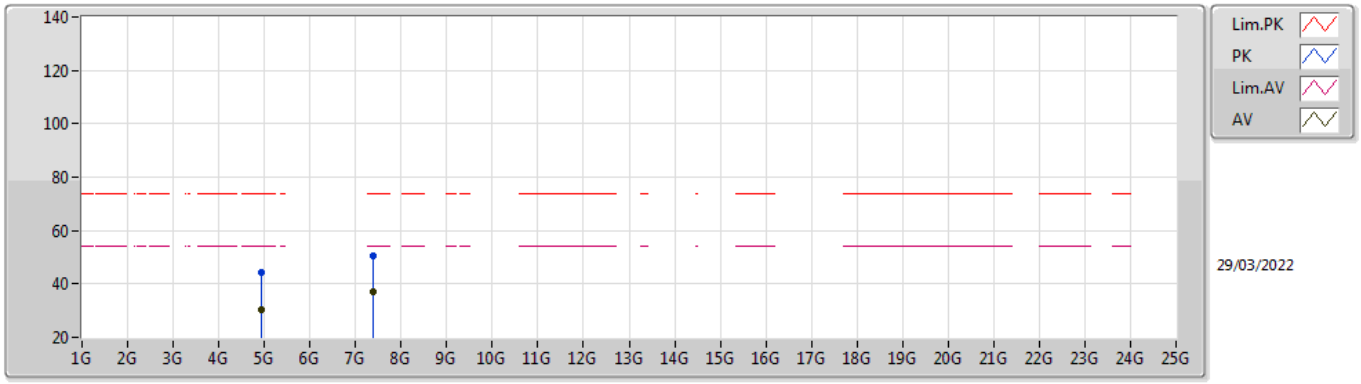
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4568G	87.43	Inf	-Inf	34.71	3	Horizontal	360	1.05	-	52.72	27.40	7.31	-
AV	2.4838G	49.02	54.00	-4.98	34.73	3	Horizontal	360	1.05	-	14.29	27.40	7.33	-
PK	2.4556G	97.09	Inf	-Inf	34.70	3	Horizontal	360	1.05	-	62.39	27.40	7.30	-
PK	2.4835G	61.52	74.00	-12.48	34.73	3	Horizontal	360	1.05	-	26.79	27.40	7.33	-

802.11n HT20_Nss1,(MCS0)_1TX

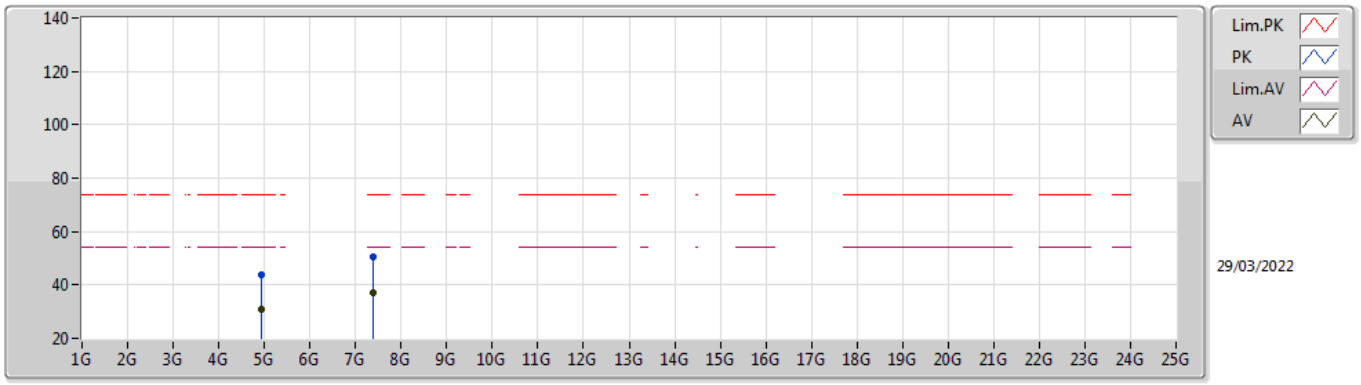
2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.93032G	30.49	54.00	-23.51	6.19	3	Vertical	284	1.61	-	24.30	31.32	9.00	34.13
AV	7.39488G	37.05	54.00	-16.95	12.42	3	Vertical	320	1.15	-	24.63	36.21	10.70	34.49
PK	4.92276G	44.11	74.00	-29.89	6.14	3	Vertical	284	1.61	-	37.97	31.29	8.99	34.14
PK	7.38824G	50.50	74.00	-23.50	12.43	3	Vertical	320	1.15	-	38.07	36.22	10.70	34.49

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.92872G	30.72	54.00	-23.28	6.18	3	Horizontal	124	1.11	-	24.54	31.31	9.00	34.13
AV	7.39504G	37.05	54.00	-16.95	12.43	3	Horizontal	242	1.71	-	24.62	36.21	10.71	34.49
PK	4.92904G	43.68	74.00	-30.32	6.19	3	Horizontal	124	1.11	-	37.49	31.32	9.00	34.13
PK	7.38956G	50.39	74.00	-23.61	12.43	3	Horizontal	242	1.71	-	37.96	36.22	10.70	34.49