Testing Laboratory
1190

FCC RADIO TEST REPORT

FCC ID	:	2AXPF03218
Equipment	:	devolo Magic 2 WiFi next
Brand Name	:	devolo AG
Model Name	:	MT:3218
Applicant/ Manufacturer	:	devolo AG devolo AG Charlottenburger Allee 67 52068 Aachen, Germany
Standard	:	47 CFR FCC Part 15.247

The product was received on Sep. 28, 2020, and testing was started from Oct. 06, 2020 and completed on Dec. 09, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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Photographs of EUT v02

History of this test report

Report No.	Version	Description	Issued Date
FR091745AA	01	Initial issue of report	Feb. 08, 2021
FR091745AA	02	1. Change model name to “MT:3218” from “MT: 3218”. 2. Change photographs of EUT version to “v2” from “v1”.	Feb. 18, 2021

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:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2
2.4-2.4835GHz	802.11g	20	2
2.4-2.4835GHz	802.11n HT20	20	2
2.4-2.4835GHz	802.11n HT40	40	2

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	WLAN 2.4GHz Gain (dBi)		
						Low channel	Middle channel	Highest channel
1	1	devolo	N/A	Printed	N/A	1.5	2.6	3.7
2	2	devolo	N/A	Printed	N/A	1.9	2.4	3.3
Ant.	**Port**	**Brand**	**Model Name**	**Antenna Type**	**Connector**	**WLAN 5GHz Gain (dBi)**			
						Freq.: 5150-5250 MHz	**Freq.: 5250-5350 MHz**	**Freq.: 5500-5600 MHz**	**Freq.: 5620-5825 MHz**
3	1	devolo	N/A	Printed	N/A	1.2	-0.1	1.4	3.3
4	2	devolo	N/A	Printed	N/A	-0.4	0.0	2.0	3.9

Note: The above information was declared by manufacturer.

For WLAN 2.4GHz function:

For IEEE 802.11b/g/n mode (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For WLAN 5GHz function:

For IEEE 802.11a/n/ac mode (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.991	0.04	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.959	0.18	2.033m	1k
802.11n HT20	0.983	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	0.967	0.15	2.413m	1k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QSPR Version 5.0-00188			

Note: The above information was declared by manufacturer.

1.2 Applicable 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.

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL :	886-3-327-3456 FAX : 886-3-327-0973
☒	JHUBEI	ADD :	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)
		TEL :	886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH02-CB	Nyle Chang	22.5~23.9°C / 54~57%	Nov. 11, 2020
Radiated below 1GHz	03CH01-CB	JN Tu	24.2~25.7°C / 54~56%	Dec. 09, 2020
Radiated above 1GHz	03CH02-CB	JN Tu	23.8~25.1°C / 55~58%	Nov. 11, 2020
AC Conduction	CO01-CB	Max Lin	21~22°C / 58~59%	Oct. 06, 2020~Nov. 06, 2020

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D with Industry Canada.

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)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.0 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.9 dB	Confidence levels of 95%
Conducted Emission	2.8 dB	Confidence levels of 95%
Output Power Measurement	1.4 dB	Confidence levels of 95%
Power Density Measurement	2.8 dB	Confidence levels of 95%
Bandwidth Measurement	0.4%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	14
2437MHz	14
2462MHz	14
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	14
2437MHz	14
2462MHz	14
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	14
2437MHz	14
2462MHz	14
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	14
2437MHz	14
2452MHz	13

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
Operating Mode	CTX
1	EUT + WLAN 2.4GHz
2	EUT + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	

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
The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Z axis for WLAN 2.4GHz and found at X axis for WLAN 5GHz. So the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz
2	EUT in X axis + WLAN 5GHz
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration.	
1	EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA091745-01 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories
RJ-45 cable*1, non-shielded, 2m

2.5 Support Equipment

For AC Conduction:

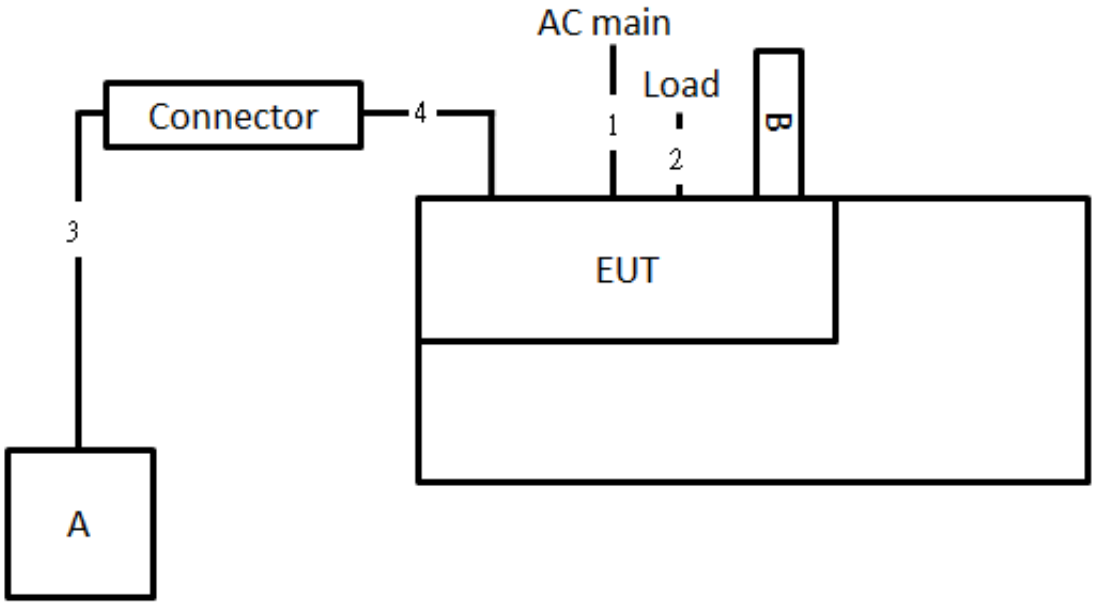
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	LAN NB	DELL	E6430	N/A
B	Lighting	Philips	N/A	N/A

For Radiated and RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

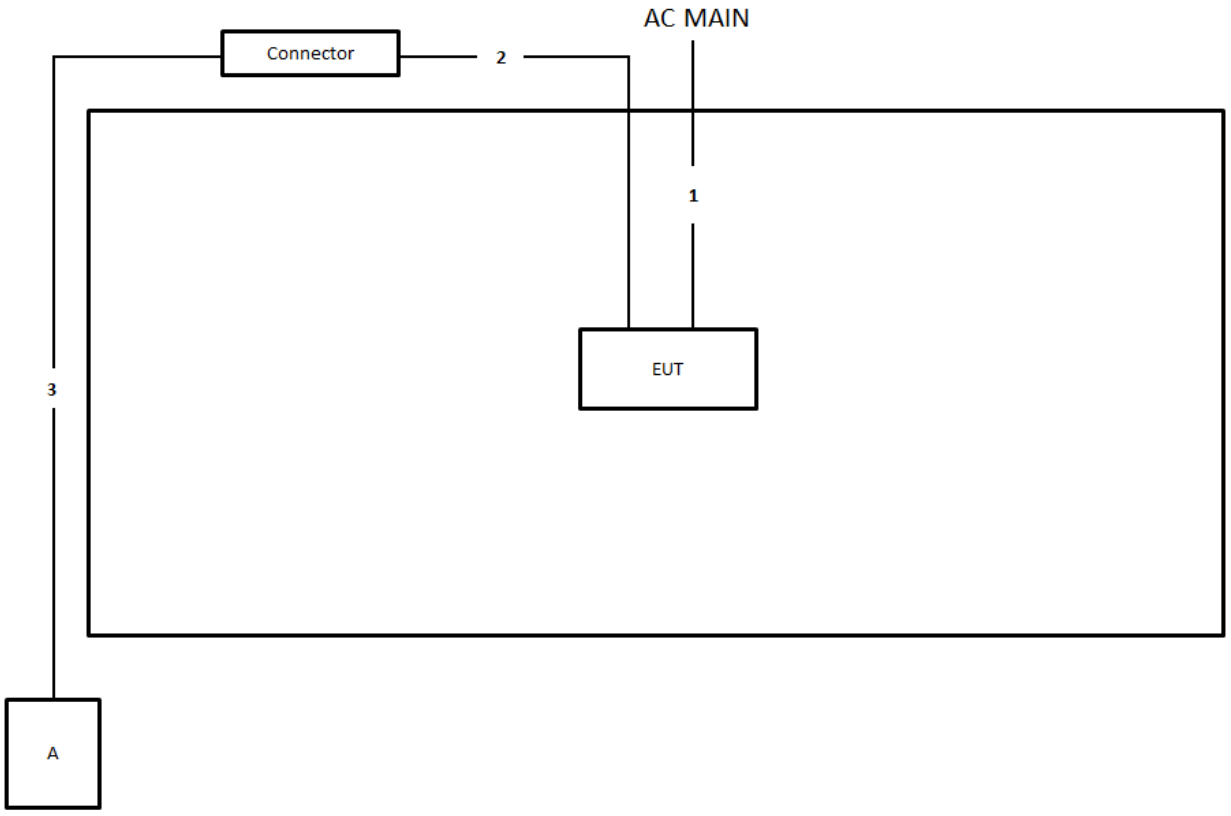
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



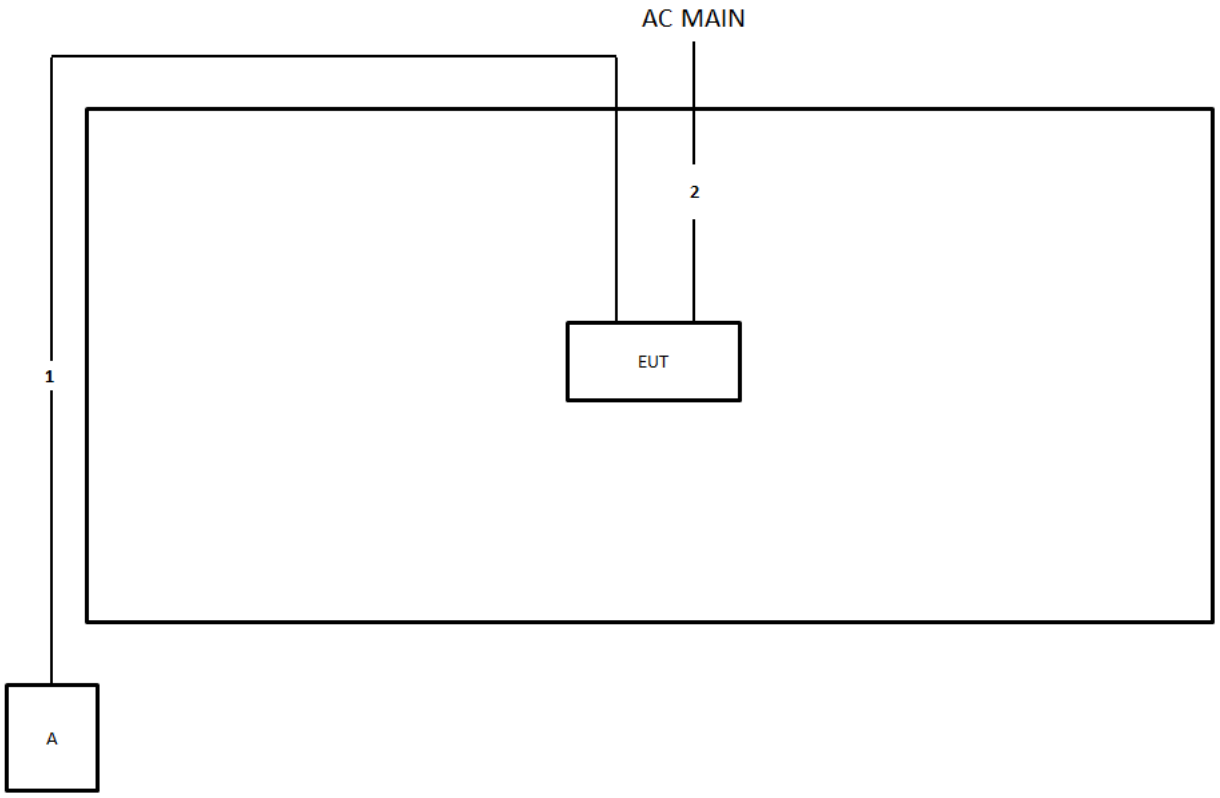
Item	Connection	Shielded	Length
1	Power cable	No	0.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	2m

Test Setup Diagram - Radiated below 1GHz Test



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	2m
3	RJ-45 cable	No	10m

Test Setup Diagram - Radiated above 1GHz Test



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.5m

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

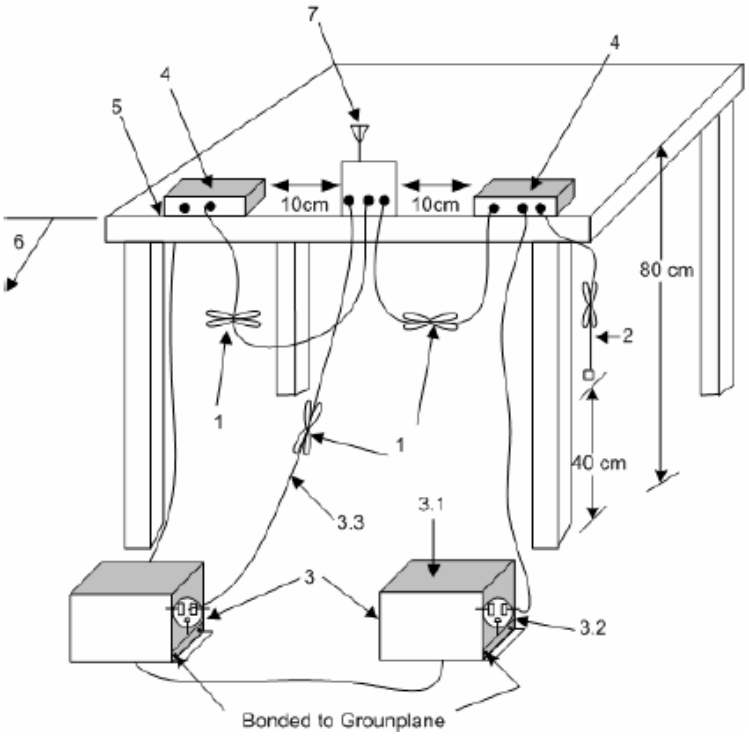
Refer a test equipment and calibration data table in this test report.

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 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 50 Ω 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.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

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.

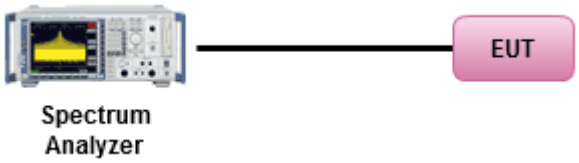
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.1 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
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 FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC 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

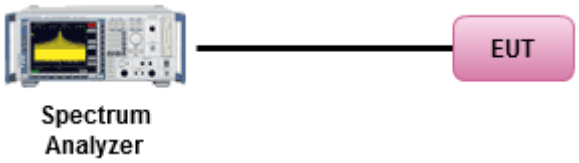
3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

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 (dBc)**
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 PSD 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 PSD level.	

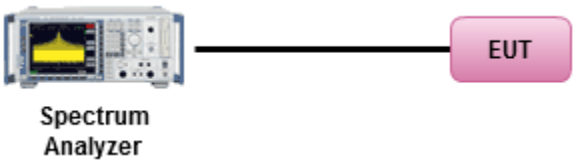
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted 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.

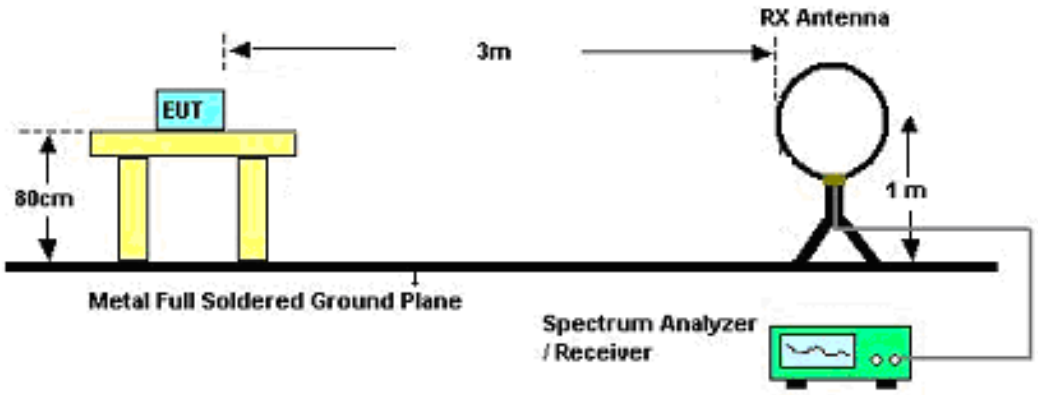
3.6.3 Test Procedures

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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.		
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
		☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
		☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
		☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, 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 FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.		
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).		
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB		
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.		

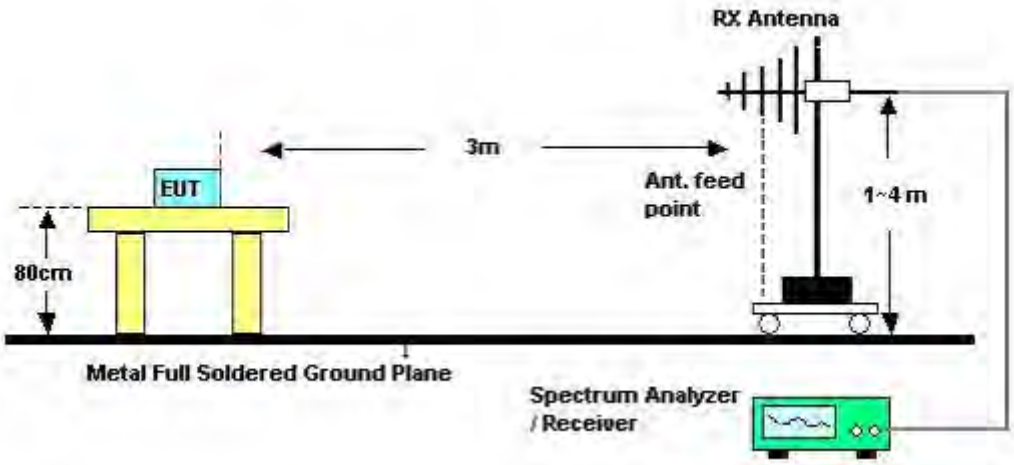
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

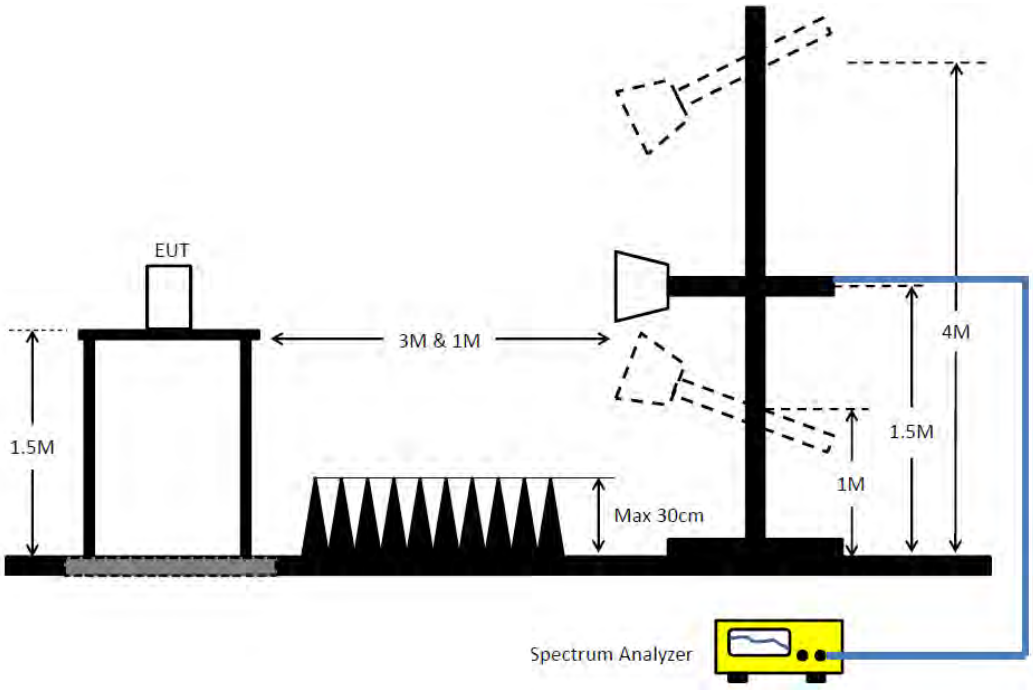
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 26, 2020	Feb. 25, 2021	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50 -16-2	04083	150kHz ~ 100MHz	Dec. 25, 2019	Dec. 24, 2020	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Feb. 25, 2020	Feb. 24, 2021	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 31, 2020	Jan. 30, 2021	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 20, 2020	May 19, 2021	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH01-CB	30 MHz ~ 1 GHz	Jan. 28, 2020	Jan. 27, 2021	Radiation (03CH01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Feb. 28, 2020	Feb. 27, 2021	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	Jul. 03, 2020	Jun. 02, 2021	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Apr. 16, 2020	Apr. 15, 2021	Radiation (03CH01-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH01-CB)
RF Cable-low	Woken	RG402	Low Cable-16+17	30 MHz ~ 1 GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 28, 2020	Mar. 27, 2021	Radiation (03CH02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 21, 2020	Apr. 20, 2021	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 13, 2020	Jul. 12, 2021	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz– 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH02-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH02-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

Note: Calibration Interval of instruments listed above is one year.

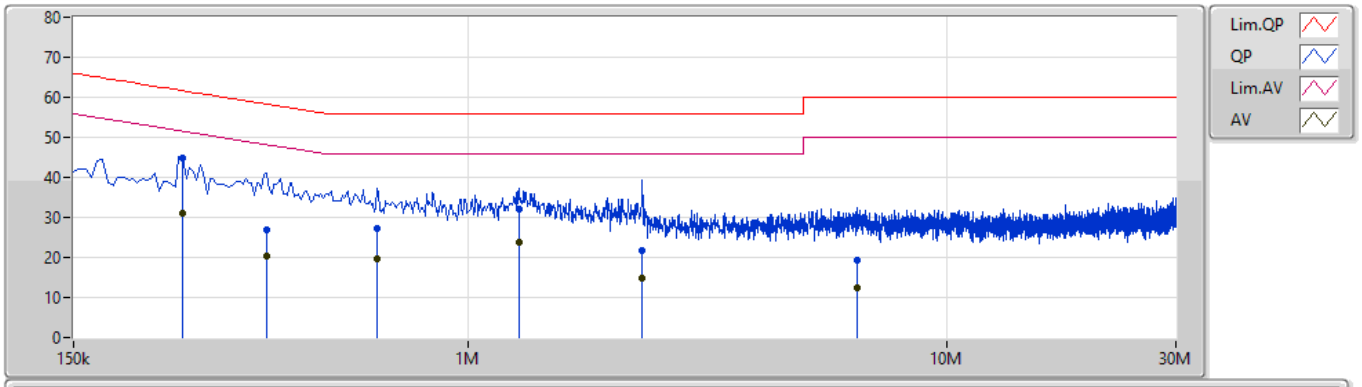
N.C.R. means Non-Calibration required.

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	253.5k	44.69	61.64	-16.95	Line

Mode 2

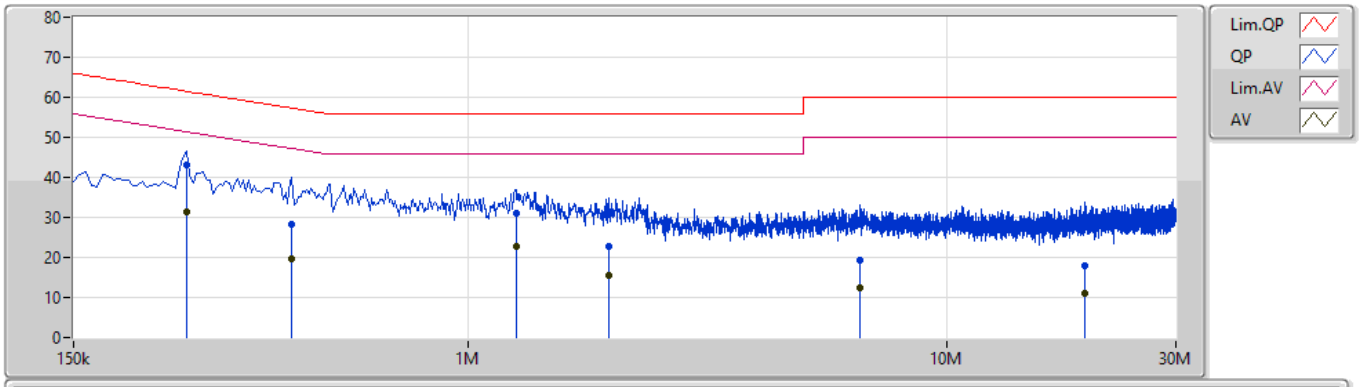
12/10/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	253.5k	44.69	61.64	-16.95	9.87	Line	"Worst"	34.82	0.04	0.03	9.80
AV	253.5k	30.99	51.64	-20.65	9.87	Line	-	21.12	0.04	0.03	9.80
QP	379.5k	26.88	58.29	-31.41	9.88	Line	-	17.00	0.04	0.03	9.81
AV	379.5k	20.19	48.29	-28.10	9.88	Line	-	10.31	0.04	0.03	9.81
QP	645k	27.13	56.00	-28.87	9.91	Line	-	17.22	0.05	0.04	9.82
AV	645k	19.79	46.00	-26.21	9.91	Line	-	9.88	0.05	0.04	9.82
QP	1.275M	31.94	56.00	-24.06	9.92	Line	-	22.02	0.05	0.05	9.82
AV	1.275M	23.83	46.00	-22.17	9.92	Line	-	13.91	0.05	0.05	9.82
QP	2.306M	21.64	56.00	-34.36	9.98	Line	-	11.66	0.07	0.08	9.83
AV	2.306M	14.85	46.00	-31.15	9.98	Line	-	4.87	0.07	0.08	9.83
QP	6.504M	19.39	60.00	-40.61	10.14	Line	-	9.25	0.13	0.14	9.87
AV	6.504M	12.55	50.00	-37.45	10.14	Line	-	2.41	0.13	0.14	9.87

Mode 2

12/10/2020



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	258k	43.13	61.49	-18.36	9.87	Neutral	"Worst"	33.26	0.04	0.03	9.80
AV	258k	31.40	51.49	-20.09	9.87	Neutral	-	21.53	0.04	0.03	9.80
QP	429k	28.33	57.28	-28.95	9.88	Neutral	-	18.45	0.04	0.03	9.81
AV	429k	19.64	47.28	-27.64	9.88	Neutral	-	9.76	0.04	0.03	9.81
QP	1.257M	30.88	56.00	-25.12	9.93	Neutral	-	20.95	0.06	0.05	9.82
AV	1.257M	22.67	46.00	-23.33	9.93	Neutral	-	12.74	0.06	0.05	9.82
QP	1.964M	22.69	56.00	-33.31	9.97	Neutral	-	12.72	0.07	0.07	9.83
AV	1.964M	15.62	46.00	-30.38	9.97	Neutral	-	5.65	0.07	0.07	9.83
QP	6.563M	19.32	60.00	-40.68	10.14	Neutral	-	9.18	0.13	0.14	9.87
AV	6.563M	12.37	50.00	-37.63	10.14	Neutral	-	2.23	0.13	0.14	9.87
QP	19.41M	17.83	60.00	-42.17	10.51	Neutral	-	7.32	0.21	0.32	9.98
AV	19.41M	11.16	50.00	-38.84	10.51	Neutral	-	0.65	0.21	0.32	9.98

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.525M	12.894M	12M9G1D	7.55M	12.594M
802.11g_Nss1,(6Mbps)_2TX	16.325M	16.642M	16M6D1D	16.275M	16.592M
802.11n HT20_Nss1,(MCS0)_2TX	17.625M	17.841M	17M8D1D	16.9M	17.741M
802.11n HT40_Nss1,(MCS0)_2TX	36.35M	36.832M	36M8D1D	35.95M	36.582M

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)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.025M	12.844M	8.025M	12.744M
2437MHz	Pass	500k	8.025M	12.894M	8.025M	12.894M
2462MHz	Pass	500k	7.55M	12.594M	8.525M	12.744M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.642M	16.325M	16.592M
2437MHz	Pass	500k	16.3M	16.642M	16.325M	16.592M
2462MHz	Pass	500k	16.275M	16.642M	16.325M	16.592M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.55M	17.816M	17.575M	17.841M
2437MHz	Pass	500k	17.55M	17.816M	17.575M	17.791M
2462MHz	Pass	500k	16.9M	17.741M	17.625M	17.791M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.732M	35.95M	36.632M
2437MHz	Pass	500k	36.35M	36.832M	36.3M	36.632M
2452MHz	Pass	500k	36.35M	36.682M	36.3M	36.582M

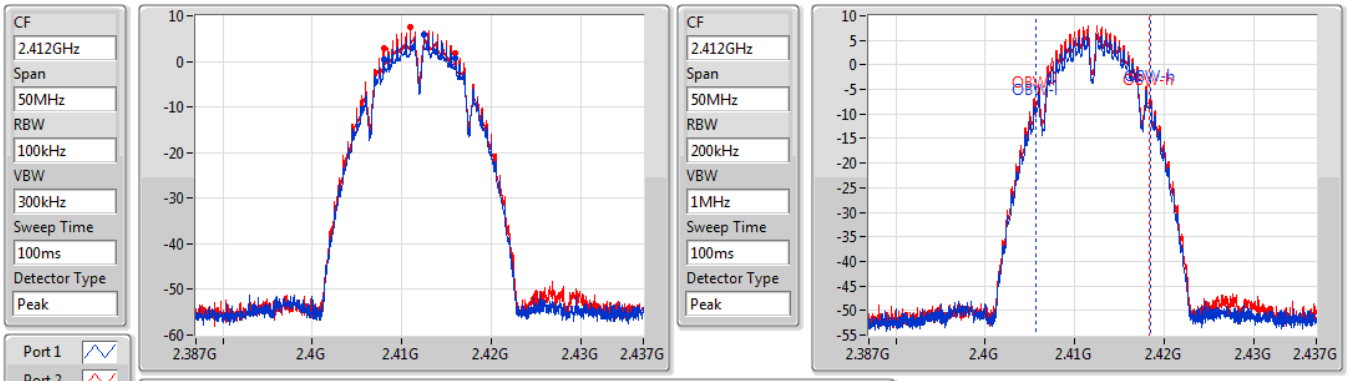
Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX

EBW

2412MHz

11/11/2020



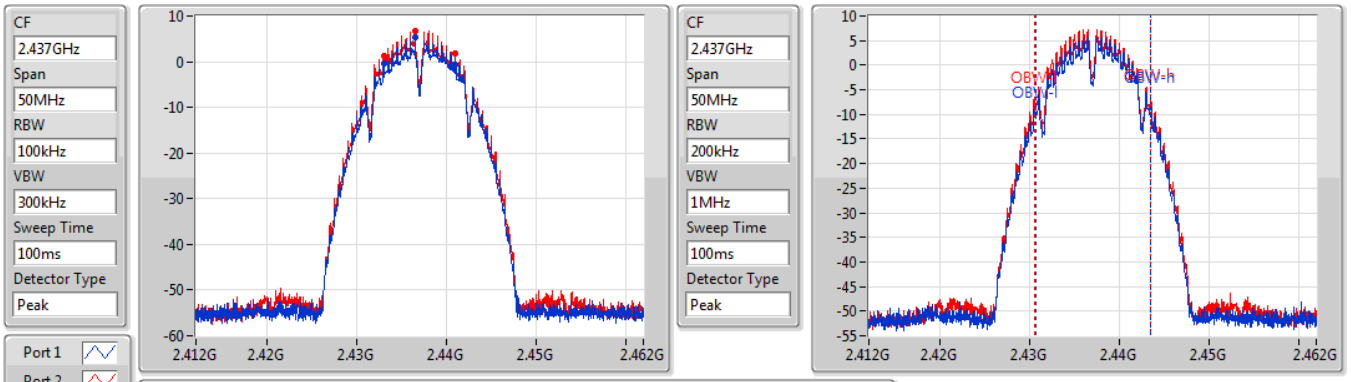
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.025M	2.407975G	2.416G	12.844M	2.405628G	2.418472G	500k	1
8.025M	2.407975G	2.416G	12.744M	2.405653G	2.418397G	500k	2

802.11b_Nss1,(1Mbps)_2TX

EBW

2437MHz

11/11/2020



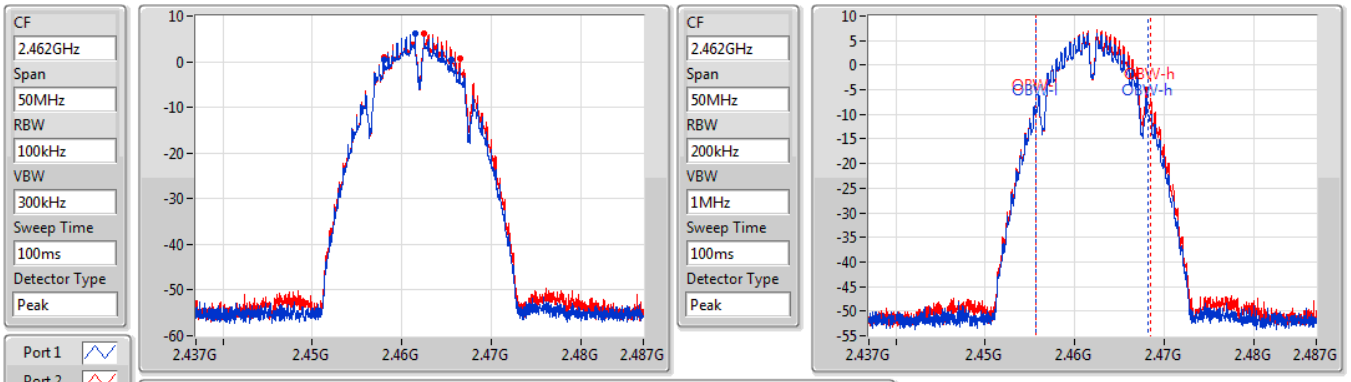
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.025M	2.433G	2.441025G	12.894M	2.430603G	2.443497G	500k	1
8.025M	2.432975G	2.441G	12.894M	2.430553G	2.443447G	500k	2

802.11b_Nss1,(1Mbps)_2TX

EBW

2462MHz

11/11/2020



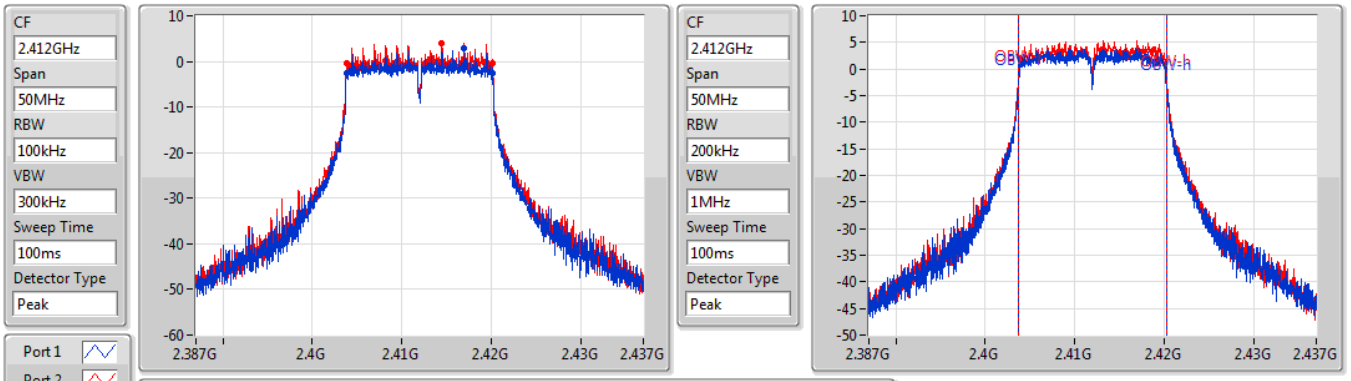
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.55M	2.457975G	2.465525G	12.594M	2.455603G	2.468197G	500k	1
8.525M	2.457975G	2.4665G	12.744M	2.455728G	2.468472G	500k	2

802.11g_Nss1,(6Mbps)_2TX

EBW

2412MHz

11/11/2020



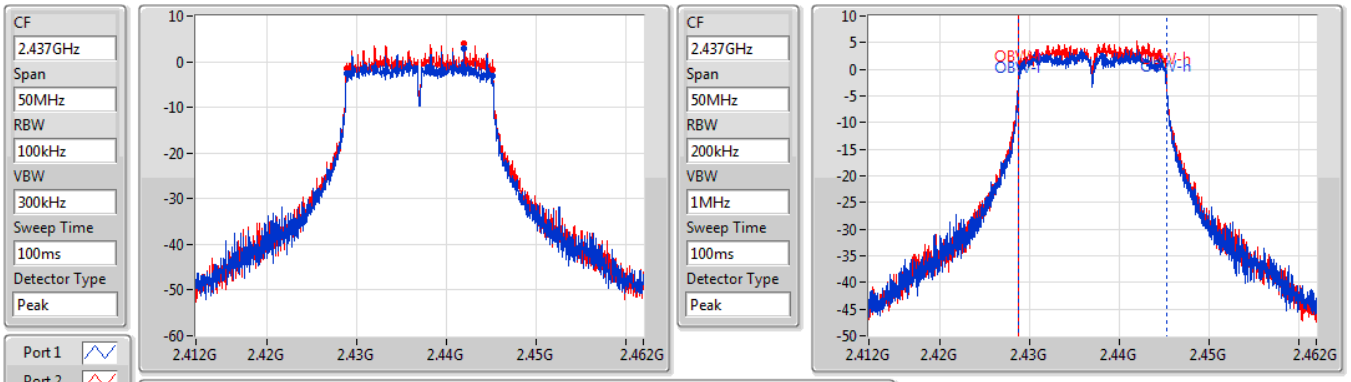
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.642M	2.403679G	2.420321G	500k	1
16.325M	2.403825G	2.42015G	16.592M	2.403704G	2.420296G	500k	2

802.11g_Nss1,(6Mbps)_2TX

EBW

2437MHz

11/11/2020



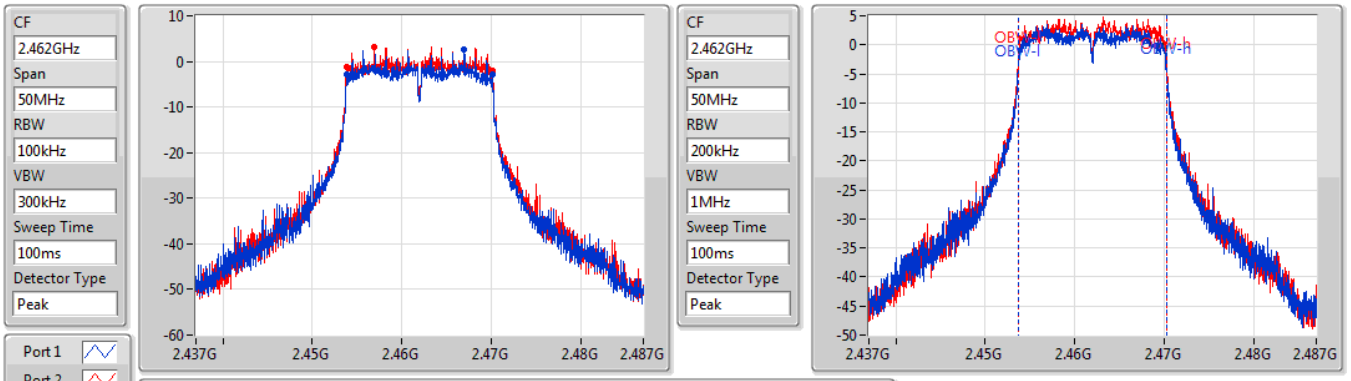
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.42885G	2.44515G	16.642M	2.428679G	2.445321G	500k	1
16.325M	2.428825G	2.44515G	16.592M	2.428704G	2.445296G	500k	2

802.11g_Nss1,(6Mbps)_2TX

EBW

2462MHz

11/11/2020



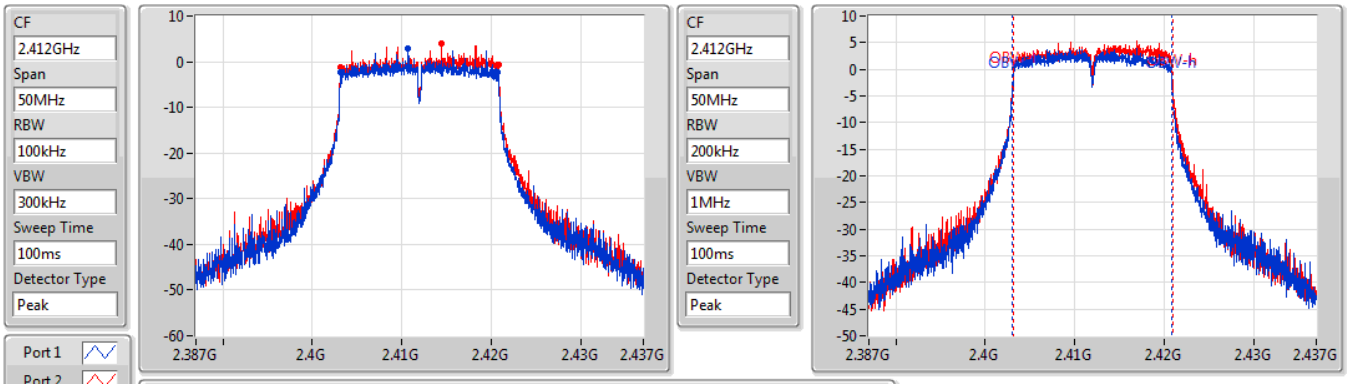
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.275M	2.45385G	2.470125G	16.642M	2.453654G	2.470296G	500k	1
16.325M	2.453825G	2.47015G	16.592M	2.453679G	2.470271G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX

EBW

2412MHz

11/11/2020



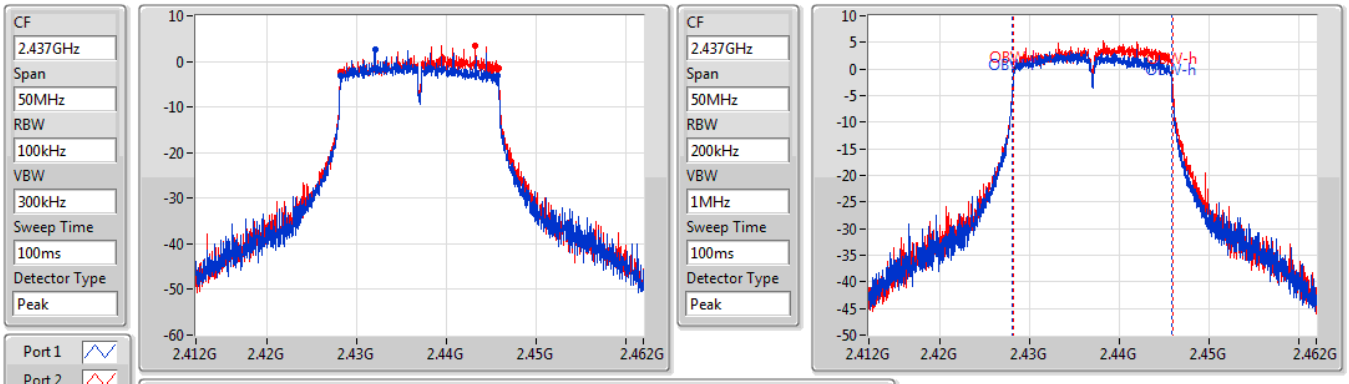
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.4032G	2.42075G	17.816M	2.403079G	2.420896G	500k	1
17.575M	2.4032G	2.420775G	17.841M	2.403104G	2.420946G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX

EBW

2437MHz

11/11/2020



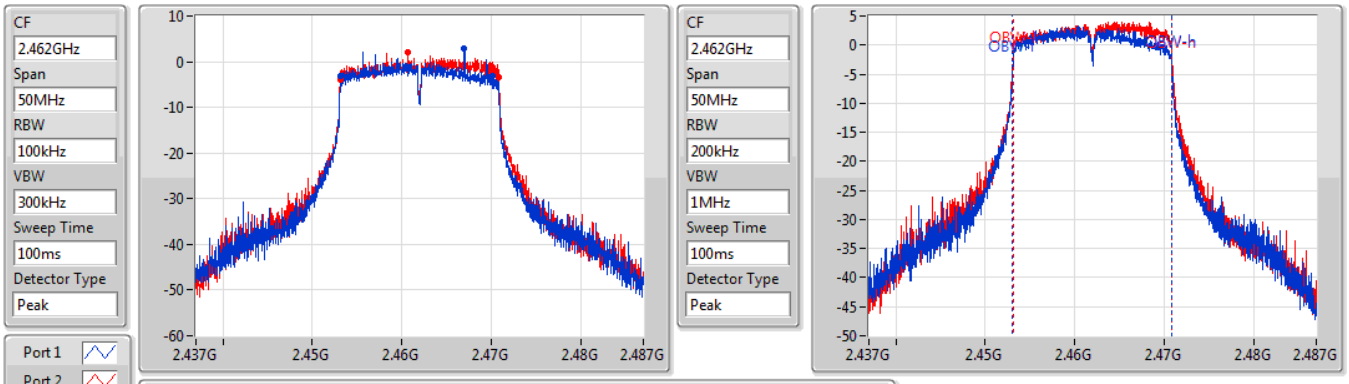
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.4282G	2.44575G	17.816M	2.428054G	2.445871G	500k	1
17.575M	2.4282G	2.445775G	17.791M	2.428129G	2.445921G	500k	2

802.11n HT20_Nss1,(MCS0)_2TX

EBW

2462MHz

11/11/2020



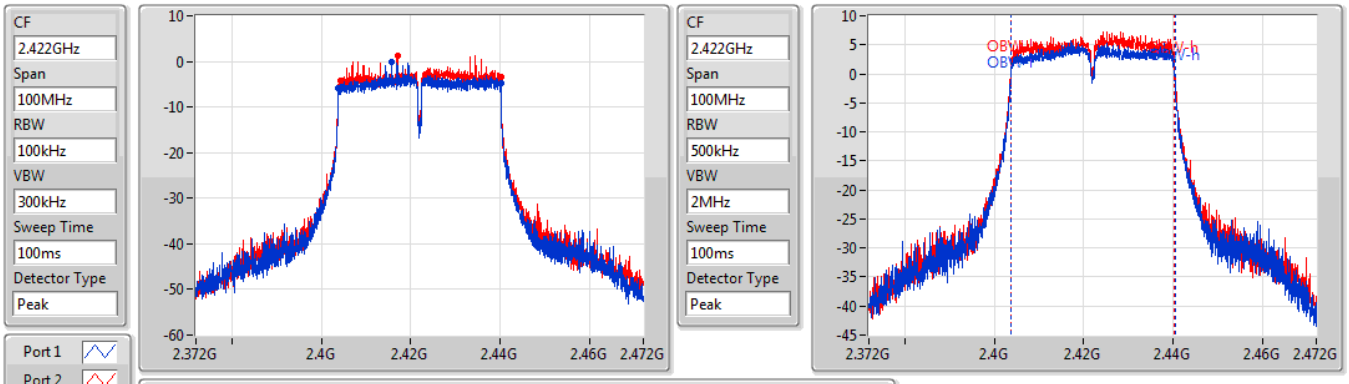
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.9M	2.453225G	2.470125G	17.741M	2.453079G	2.470821G	500k	1
17.625M	2.453175G	2.4708G	17.791M	2.453104G	2.470896G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX

EBW

2422MHz

11/11/2020



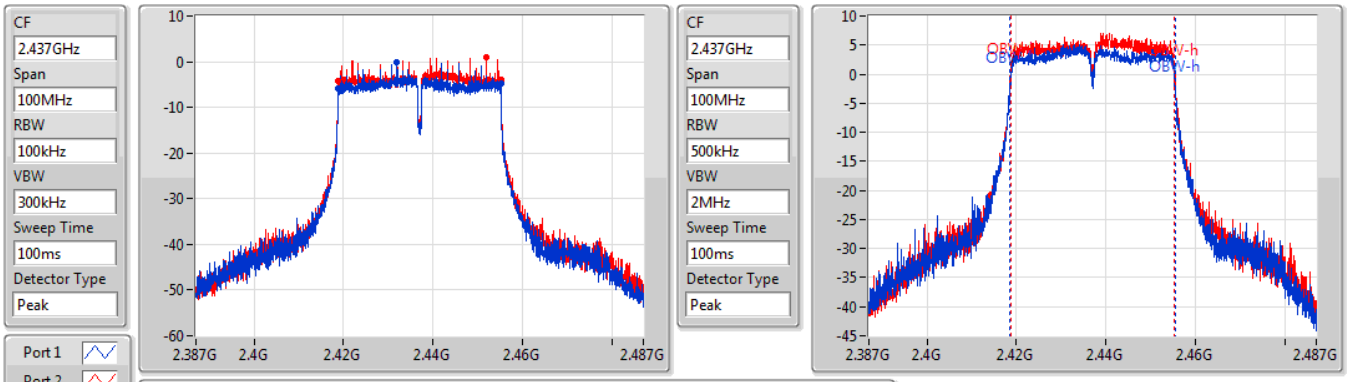
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	2.40385G	2.44015G	36.732M	2.403659G	2.440391G	500k	1
35.95M	2.4042G	2.44015G	36.632M	2.403709G	2.440341G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX

EBW

2437MHz

11/11/2020



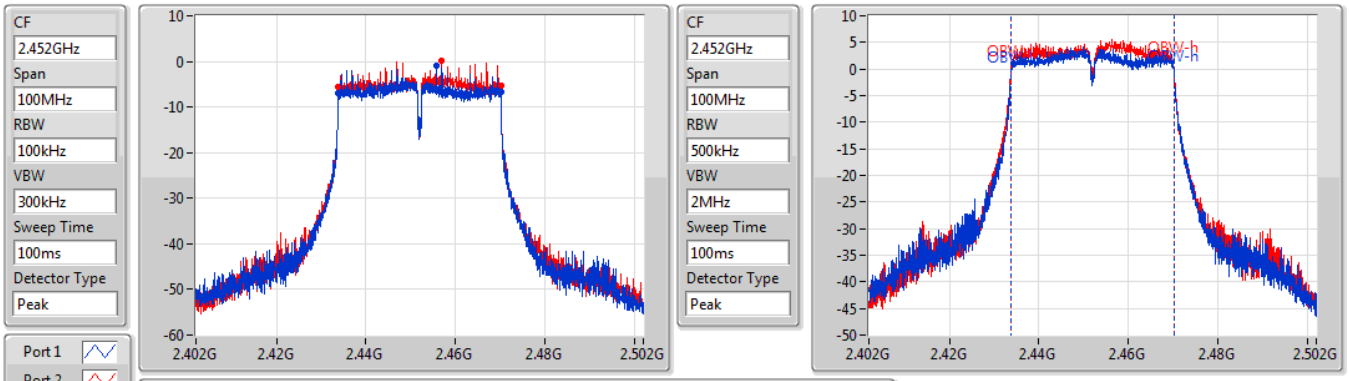
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.35M	2.4188G	2.45515G	36.832M	2.418609G	2.455441G	500k	1
36.3M	2.41885G	2.45515G	36.632M	2.418709G	2.455341G	500k	2

802.11n HT40_Nss1,(MCS0)_2TX

EBW

2452MHz

11/11/2020



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.35M	2.4338G	2.47015G	36.682M	2.433659G	2.470341G	500k	1
36.3M	2.43385G	2.47015G	36.582M	2.433659G	2.470241G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	18.70	0.07413
802.11g_Nss1,(6Mbps)_2TX	18.86	0.07691
802.11n HT20_Nss1,(MCS0)_2TX	18.90	0.07762
802.11n HT40_Nss1,(MCS0)_2TX	18.55	0.07161

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.90	14.82	16.41	18.70	30.00
2437MHz	Pass	2.60	14.29	15.93	18.20	30.00
2462MHz	Pass	3.70	14.76	15.52	18.17	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.90	15.18	16.43	18.86	30.00
2437MHz	Pass	2.60	14.69	15.97	18.39	30.00
2462MHz	Pass	3.70	14.27	15.41	17.89	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.90	15.33	16.39	18.90	30.00
2437MHz	Pass	2.60	14.96	16.12	18.59	30.00
2462MHz	Pass	3.70	14.46	15.56	18.06	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.90	15.01	16.01	18.55	30.00
2437MHz	Pass	2.60	14.65	15.94	18.35	30.00
2452MHz	Pass	3.70	13.77	14.52	17.17	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-5.37
802.11g_Nss1,(6Mbps)_2TX	-7.23
802.11n HT20_Nss1,(MCS0)_2TX	-8.81
802.11n HT40_Nss1,(MCS0)_2TX	-10.26

RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

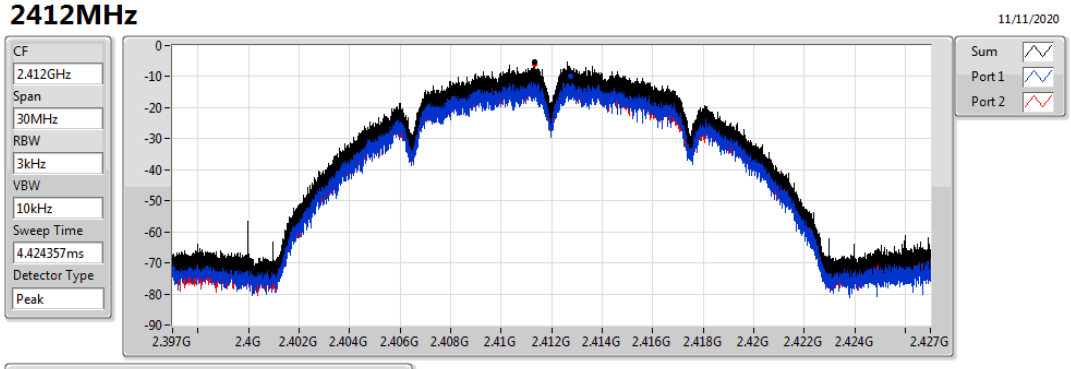
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.71	-9.83	-6.12	-5.37	8.00
2437MHz	Pass	5.51	-9.82	-8.01	-6.42	8.00
2462MHz	Pass	6.51	-9.51	-6.51	-5.79	7.49
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.71	-9.38	-8.66	-8.00	8.00
2437MHz	Pass	5.51	-12.11	-7.83	-7.23	8.00
2462MHz	Pass	6.51	-11.14	-9.61	-9.08	7.49
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.71	-11.33	-9.63	-8.81	8.00
2437MHz	Pass	5.51	-11.37	-9.76	-9.01	8.00
2462MHz	Pass	6.51	-11.45	-11.02	-8.91	7.49
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.71	-12.75	-12.40	-10.26	8.00
2437MHz	Pass	5.51	-14.12	-13.81	-12.16	8.00
2452MHz	Pass	6.51	-15.29	-14.22	-12.88	7.49

DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;
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)_2TX PSD

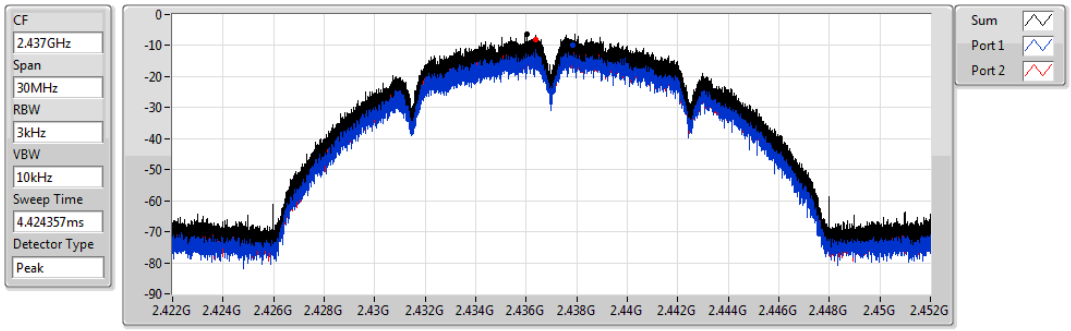
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.37	-5.37	-9.83	-6.12

802.11b_Nss1,(1Mbps)_2TX PSD

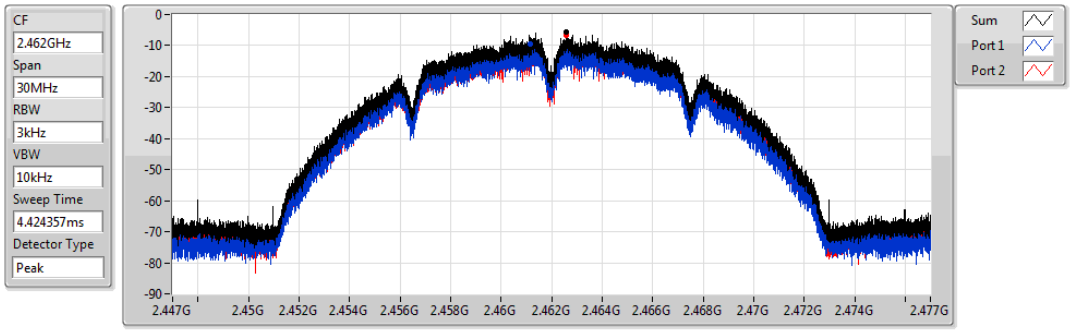
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.42	-6.42	-9.82	-8.01

802.11b_Nss1,(1Mbps)_2TX PSD

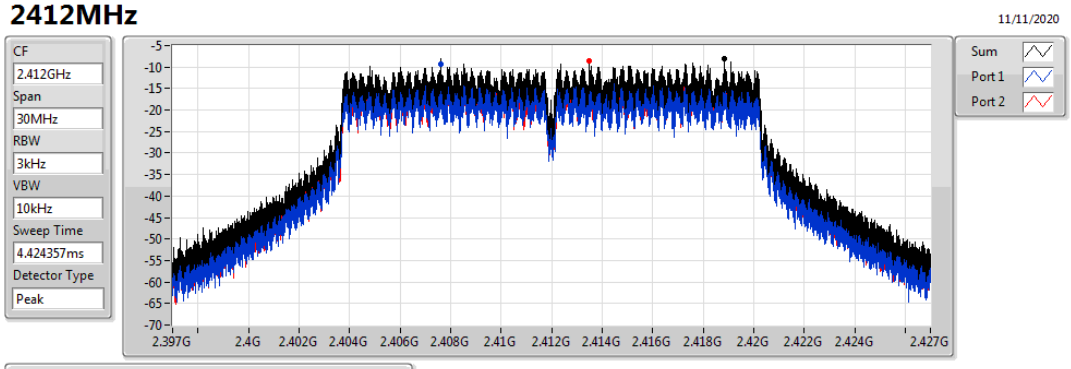
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.79	-5.79	-9.51	-6.51

802.11g_Nss1,(6Mbps)_2TX PSD

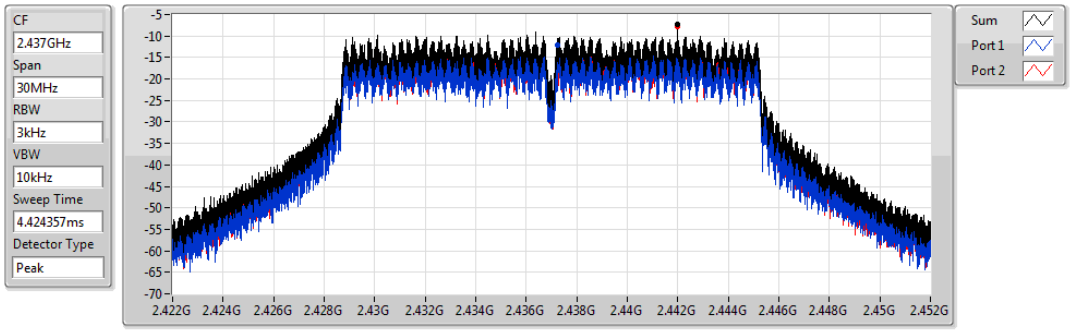
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.00	-8.00	-9.38	-8.66

802.11g_Nss1,(6Mbps)_2TX PSD

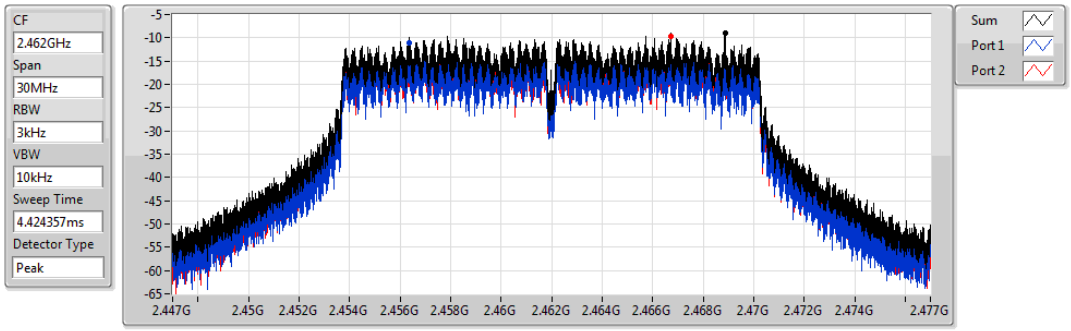
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.23	-7.23	-12.11	-7.83

802.11g_Nss1,(6Mbps)_2TX PSD

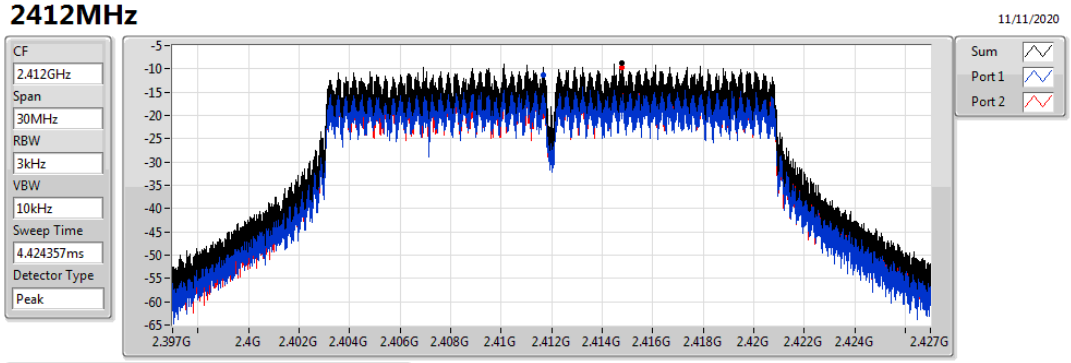
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.08	-9.08	-11.14	-9.61

802.11n HT20_Nss1,(MCS0)_2TX PSD

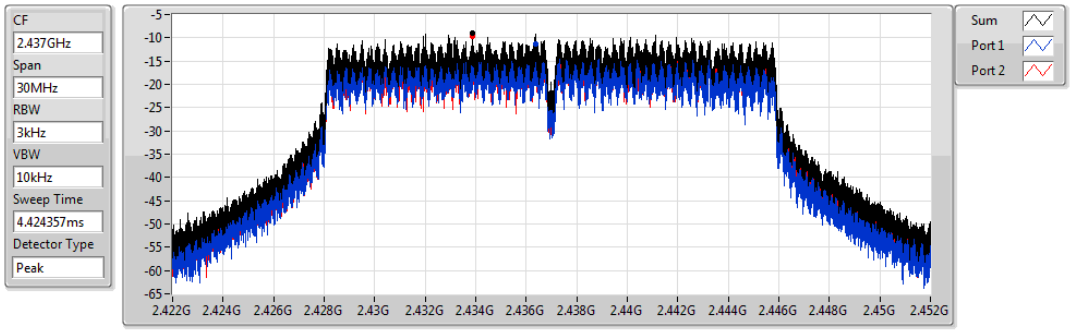
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.81	-8.81	-11.33	-9.63

802.11n HT20_Nss1,(MCS0)_2TX PSD

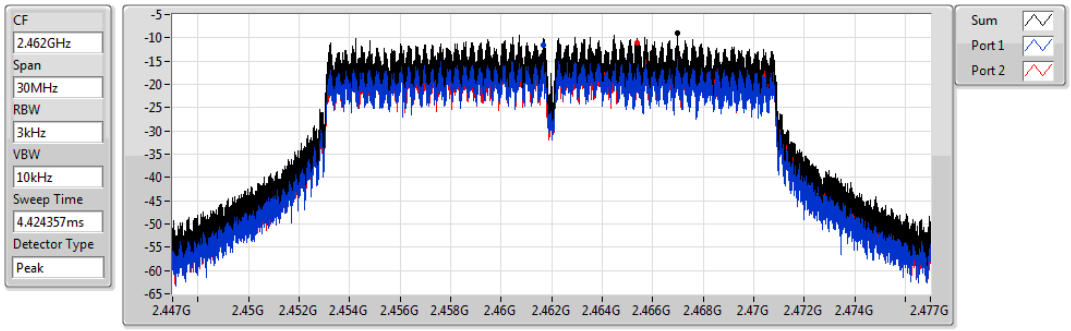
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.01	-9.01	-11.37	-9.76

802.11n HT20_Nss1,(MCS0)_2TX PSD

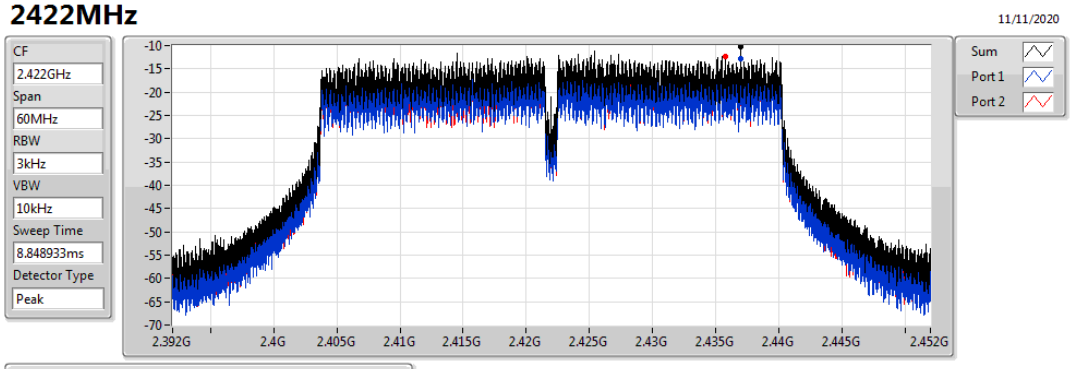
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.91	-8.91	-11.45	-11.02

802.11n HT40_Nss1,(MCS0)_2TX PSD

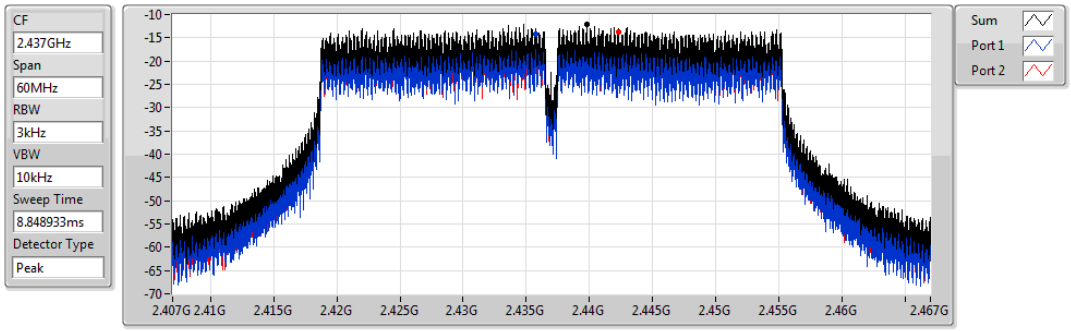
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.26	-10.26	-12.75	-12.40

802.11n HT40_Nss1,(MCS0)_2TX PSD

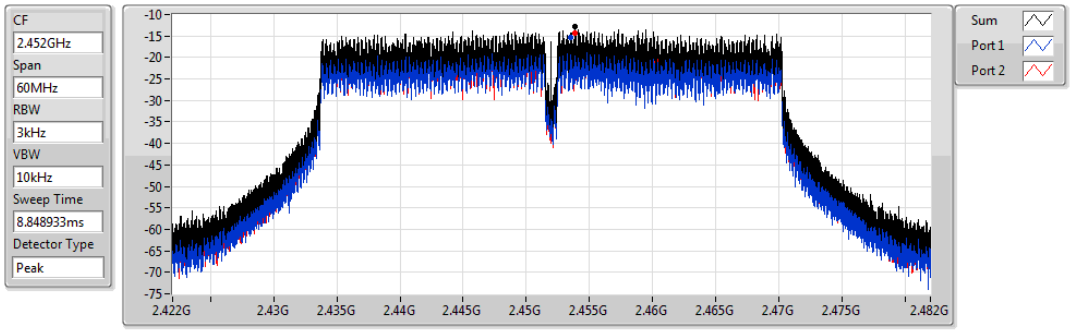
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.16	-12.16	-14.12	-13.81

802.11n HT40_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.88	-12.88	-15.29	-14.22

Summary

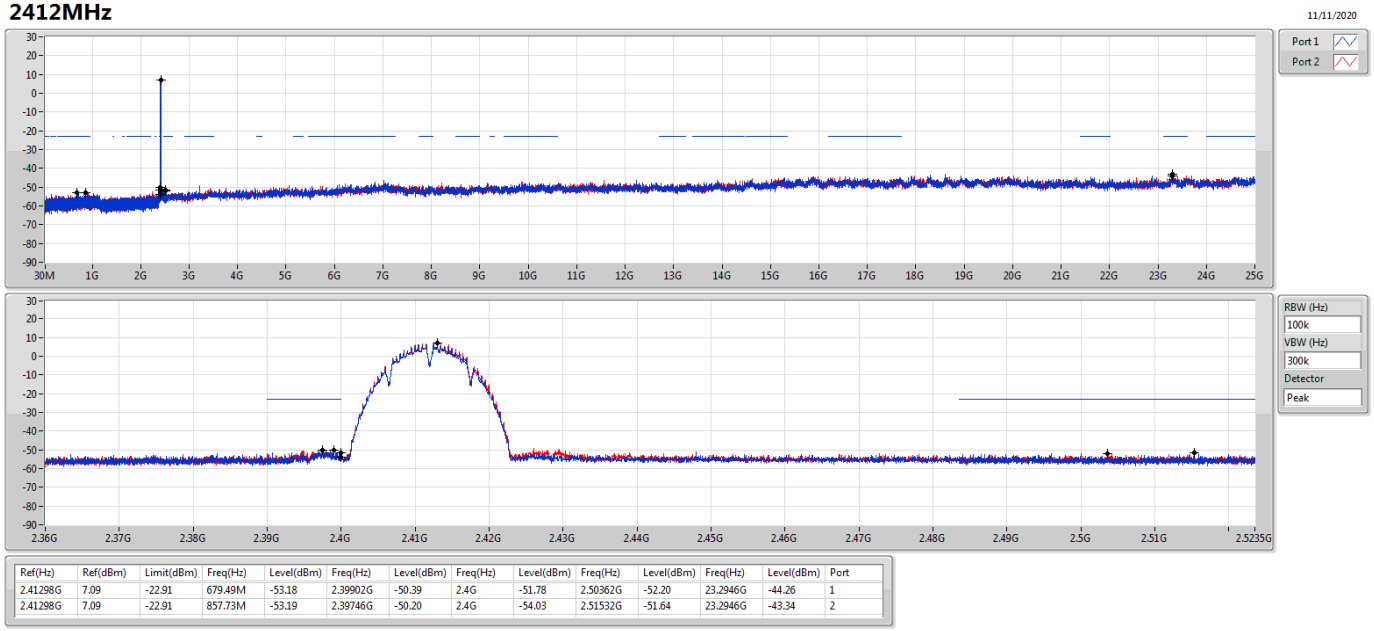
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41298G	7.09	-22.91	857.73M	-53.19	2.39746G	-50.20	2.4G	-54.03	2.51532G	-51.64	23.2946G	-43.34	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.41695G	4.14	-25.86	2.09059G	-53.14	2.39998G	-29.22	2.4G	-27.95	2.49594G	-50.80	17.63333G	-43.95	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.40822G	3.71	-26.29	159.9M	-53.17	2.39924G	-27.53	2.4G	-29.09	2.49744G	-51.74	23.3255G	-43.52	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.43699G	1.36	-28.64	731.31M	-53.46	2.39992G	-30.54	2.4G	-32.25	2.48414G	-50.26	17.6212G	-43.79	2

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41298G	7.09	-22.91	679.49M	-53.18	2.39902G	-50.39	2.4G	-51.78	2.50362G	-52.20	23.2946G	-44.26	1
2412MHz	Pass	2.41298G	7.09	-22.91	857.73M	-53.19	2.39746G	-50.20	2.4G	-54.03	2.51532G	-51.64	23.2946G	-43.34	2
2437MHz	Pass	2.41298G	7.09	-22.91	159.9M	-53.19	2.39996G	-51.42	2.4G	-52.72	2.51864G	-51.29	17.67547G	-43.73	1
2437MHz	Pass	2.41298G	7.09	-22.91	692.89M	-53.70	2.39062G	-52.93	2.4G	-54.89	2.5075G	-51.84	24.64319G	-43.61	2
2462MHz	Pass	2.41298G	7.09	-22.91	2.11098G	-53.43	2.39652G	-52.29	2.4G	-52.76	2.49998G	-51.62	24.68814G	-43.37	1
2462MHz	Pass	2.41298G	7.09	-22.91	884.53M	-53.26	2.3975G	-53.44	2.4835G	-54.31	2.49534G	-51.70	16.57131G	-43.95	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41695G	4.14	-25.86	2.09059G	-53.14	2.39998G	-29.22	2.4G	-27.95	2.49594G	-50.80	17.63333G	-43.95	1
2412MHz	Pass	2.41695G	4.14	-25.86	159.9M	-53.44	2.39852G	-28.86	2.4G	-31.63	2.50554G	-50.81	17.60804G	-43.74	2
2437MHz	Pass	2.41695G	4.14	-25.86	387.36M	-52.96	2.4G	-47.12	2.4G	-48.07	2.49594G	-51.46	23.36764G	-43.27	1
2437MHz	Pass	2.41695G	4.14	-25.86	159.9M	-53.06	2.39948G	-52.45	2.4G	-54.87	2.48504G	-51.13	24.98314G	-43.10	2
2462MHz	Pass	2.41695G	4.14	-25.86	1.94701G	-52.95	2.39996G	-48.31	2.4835G	-46.33	2.48384G	-42.00	17.63052G	-44.11	1
2462MHz	Pass	2.41695G	4.14	-25.86	159.9M	-53.29	2.39522G	-52.71	2.4835G	-44.44	2.48352G	-42.48	16.84103G	-44.23	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.40822G	3.71	-26.29	159.9M	-52.57	2.3985G	-28.19	2.4G	-28.67	2.49598G	-50.49	24.78366G	-43.64	1
2412MHz	Pass	2.40822G	3.71	-26.29	159.9M	-53.17	2.39924G	-27.53	2.4G	-29.09	2.49744G	-51.74	23.3255G	-43.52	2
2437MHz	Pass	2.40822G	3.71	-26.29	826.57M	-53.16	2.39994G	-47.36	2.4G	-48.10	2.5G	-51.13	23.57555G	-44.65	1
2437MHz	Pass	2.40822G	3.71	-26.29	159.9M	-52.64	2.3992G	-51.41	2.4835G	-53.80	2.51824G	-51.95	24.71904G	-43.88	2
2462MHz	Pass	2.40822G	3.71	-26.29	1.9106G	-52.78	2.39668G	-51.80	2.4835G	-41.96	2.48422G	-39.78	24.74152G	-43.04	1
2462MHz	Pass	2.40822G	3.71	-26.29	159.9M	-52.13	2.39636G	-52.14	2.4835G	-41.96	2.48382G	-39.85	24.62914G	-43.94	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43699G	1.36	-28.64	782.27M	-52.50	2.3994G	-32.35	2.4G	-31.67	2.48358G	-49.00	24.61577G	-44.40	1
2422MHz	Pass	2.43699G	1.36	-28.64	731.31M	-53.46	2.39992G	-30.54	2.4G	-32.25	2.48414G	-50.26	17.6212G	-43.79	2
2437MHz	Pass	2.43699G	1.36	-28.64	159.96M	-53.32	2.397G	-40.29	2.4G	-41.62	2.48382G	-46.49	16.62277G	-43.65	1
2437MHz	Pass	2.43699G	1.36	-28.64	321.69M	-53.45	2.39732G	-38.91	2.4G	-42.38	2.48422G	-42.69	16.61716G	-43.79	2
2452MHz	Pass	2.43699G	1.36	-28.64	159.96M	-52.47	2.4G	-49.45	2.4835G	-46.80	2.4851G	-41.34	23.33409G	-43.68	1
2452MHz	Pass	2.43699G	1.36	-28.64	1.9848G	-52.79	2.39836G	-51.44	2.4835G	-42.42	2.48914G	-40.25	23.28922G	-43.44	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

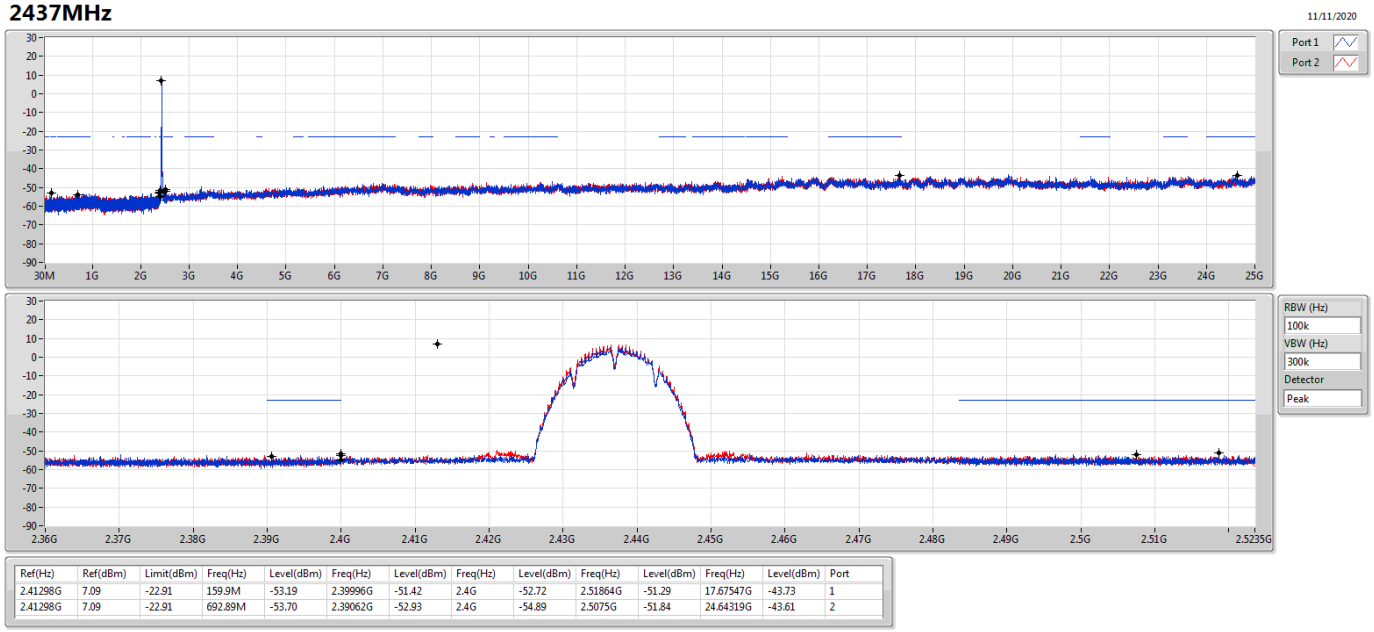
2412MHz



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
2.41298G	7.09	-22.91	679.49M	-53.18	2.39902G	-50.39	2.4G	-51.78	2.50362G	-52.20	23.2946G	-44.26	1
2.41298G	7.09	-22.91	857.73M	-53.19	2.39746G	-50.20	2.4G	-54.03	2.51532G	-51.64	23.2946G	-43.34	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

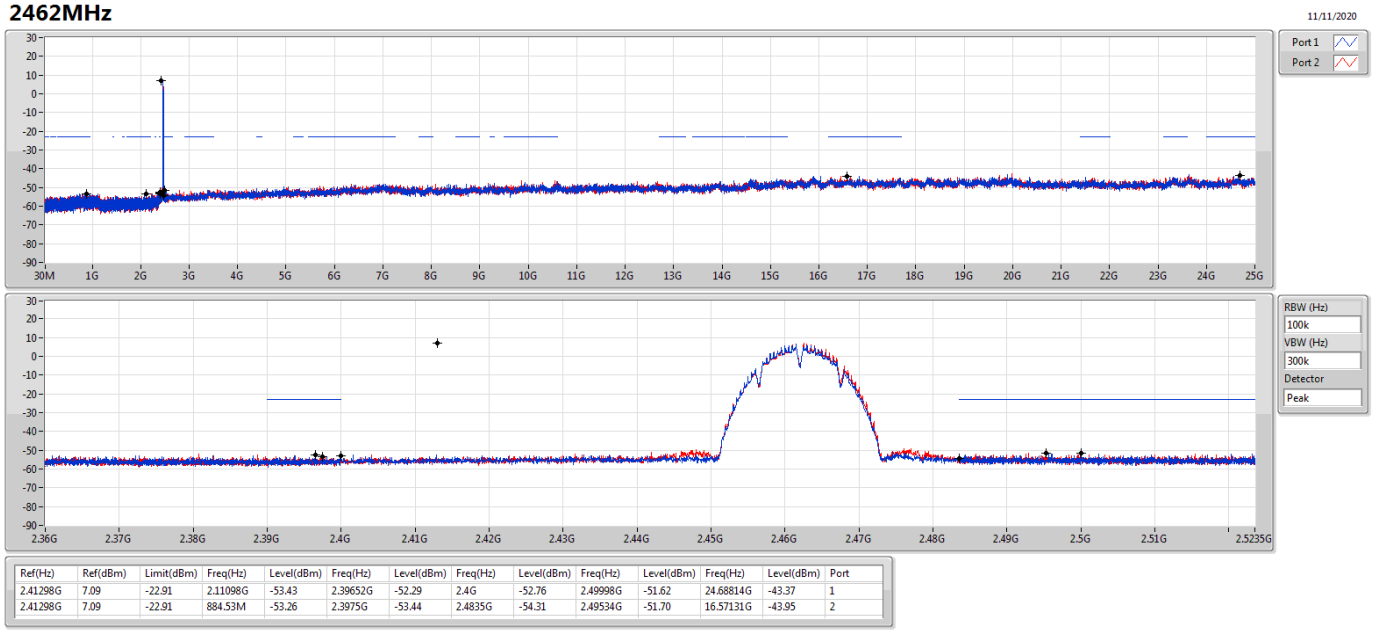
2437MHz



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
2.41298G	7.09	-22.91	159.9M	-53.19	2.39996G	-51.42	2.4G	-52.72	2.51864G	-51.29	17.67547G	-43.73	1
2.41298G	7.09	-22.91	692.89M	-53.70	2.39062G	-52.93	2.4G	-54.89	2.5075G	-51.84	24.64319G	-43.61	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

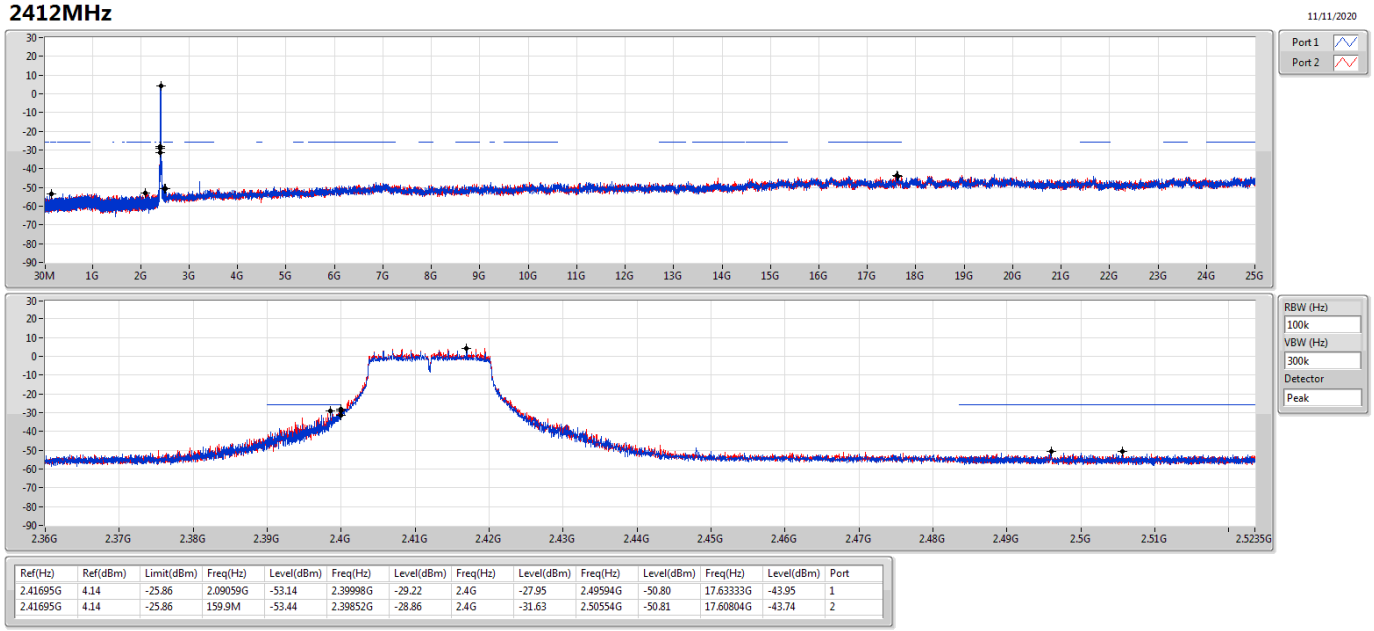
2462MHz



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
2.41298G	7.09	-22.91	2.11098G	-53.43	2.39652G	-52.29	2.4G	-52.76	2.49998G	-51.62	24.68814G	-43.37	1
2.41298G	7.09	-22.91	884.53M	-53.26	2.3975G	-53.44	2.4835G	-54.31	2.49534G	-51.70	16.57131G	-43.95	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

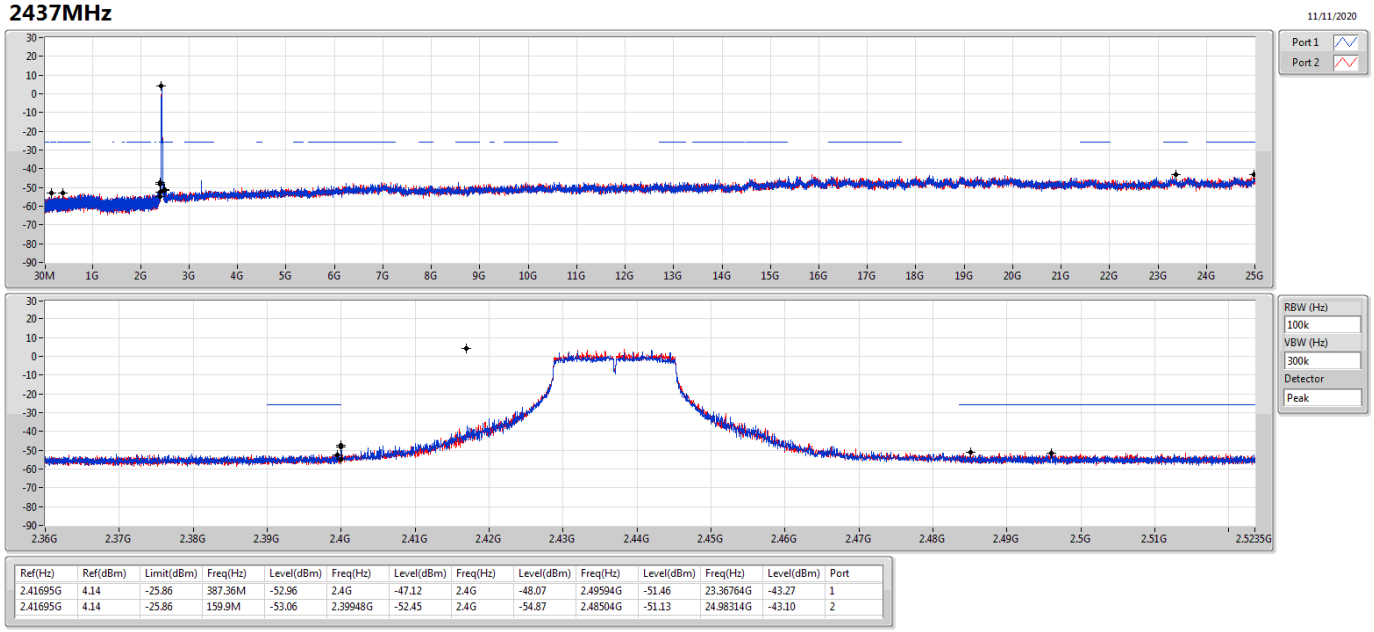
2412MHz



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
2.41695G	4.14	-25.86	2.09059G	-53.14	2.39998G	-29.22	2.4G	-27.95	2.49594G	-50.80	17.63333G	-43.95	1
2.41695G	4.14	-25.86	159.9M	-53.44	2.39852G	-28.86	2.4G	-31.63	2.50554G	-50.81	17.60804G	-43.74	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

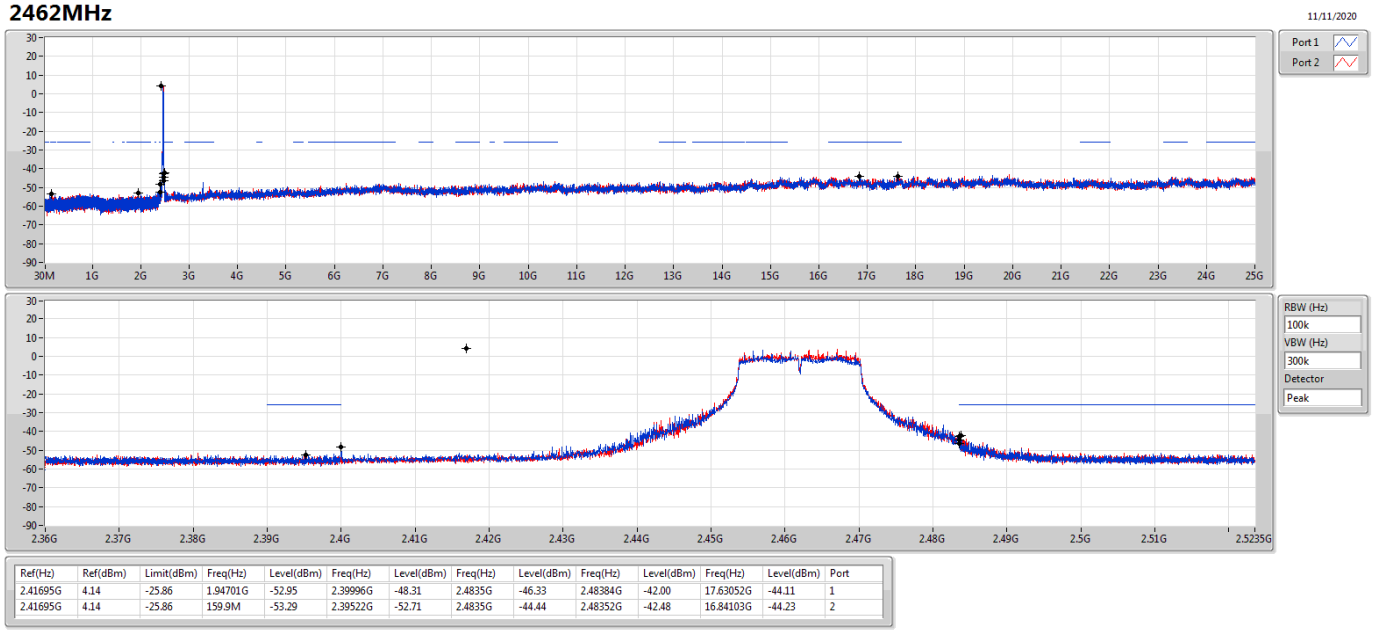
2437MHz



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
2.41695G	4.14	-25.86	387.36M	-52.96	2.4G	-47.12	2.4G	-48.07	2.49594G	-51.46	23.36764G	-43.27	1
2.41695G	4.14	-25.86	159.9M	-53.06	2.39948G	-52.45	2.4G	-54.87	2.48504G	-51.13	24.98314G	-43.10	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

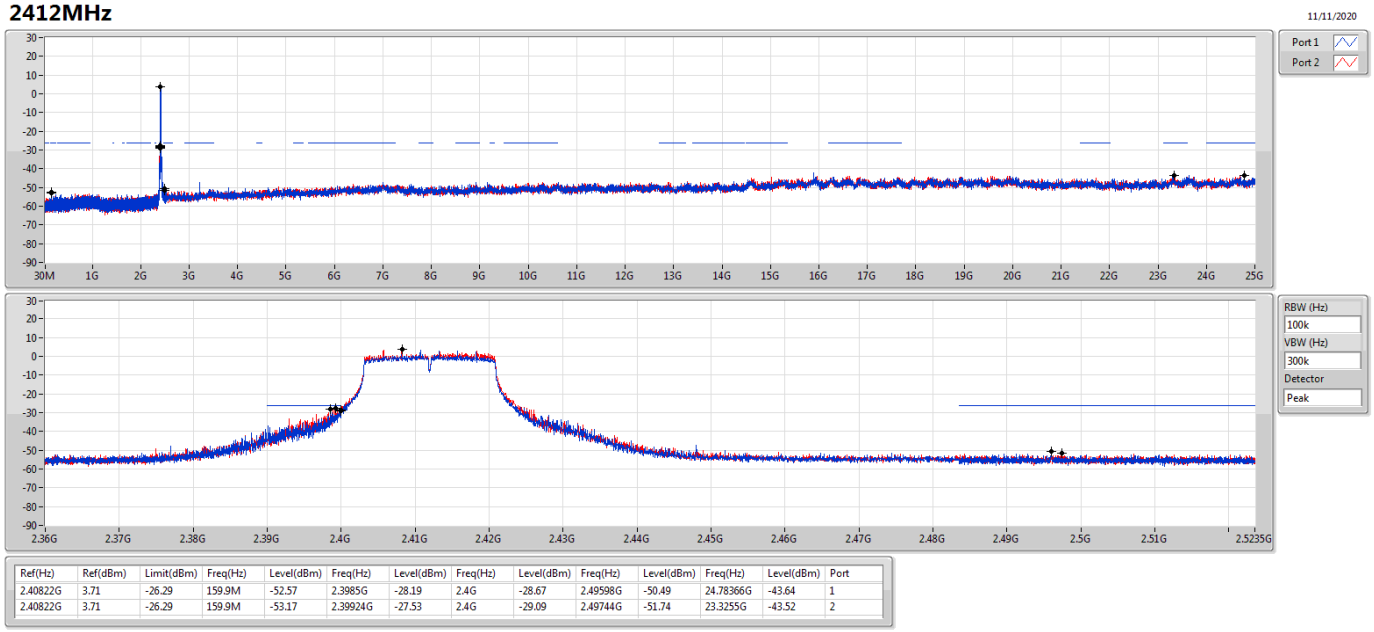
2462MHz



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
2.41695G	4.14	-25.86	1.94701G	-52.95	2.39996G	-48.31	2.4835G	-46.33	2.48384G	-42.00	17.63052G	-44.11	1
2.41695G	4.14	-25.86	159.9M	-53.29	2.39522G	-52.71	2.4835G	-44.44	2.48352G	-42.48	16.84103G	-44.23	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

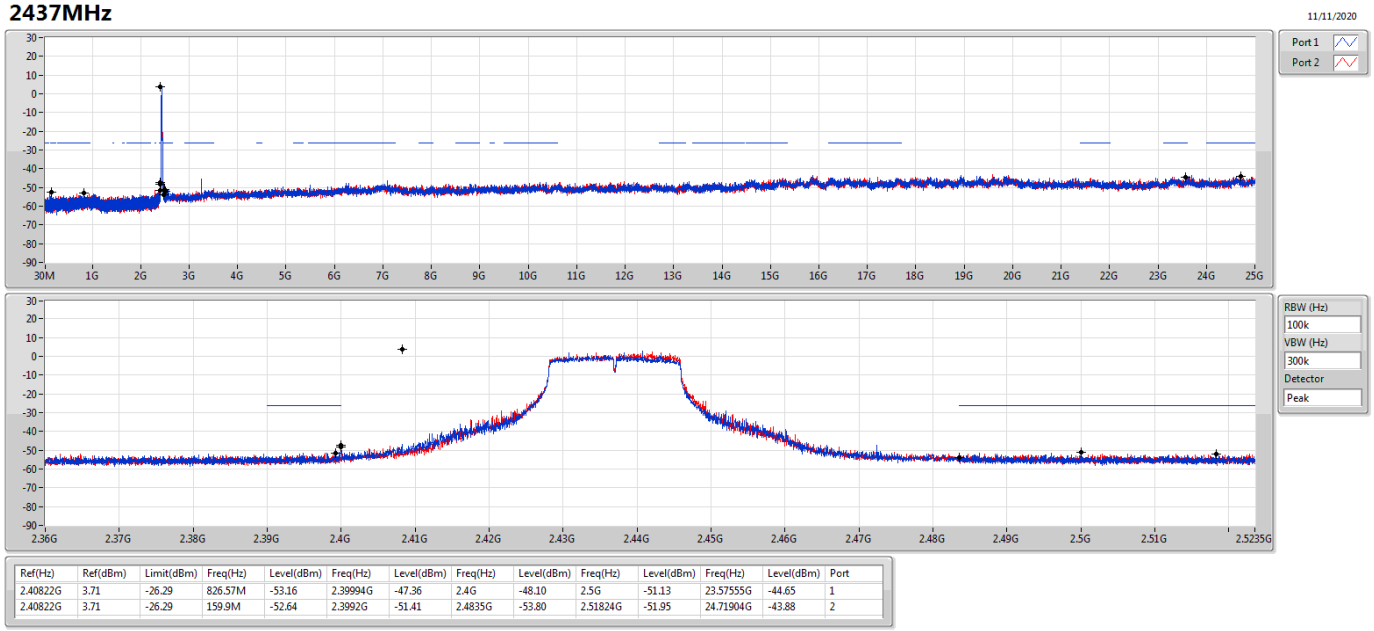
2412MHz



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
2.40822G	3.71	-26.29	159.9M	-52.57	2.3985G	-28.19	2.4G	-28.67	2.49598G	-50.49	24.78366G	-43.64	1
2.40822G	3.71	-26.29	159.9M	-53.17	2.39924G	-27.53	2.4G	-29.09	2.49744G	-51.74	23.3255G	-43.52	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

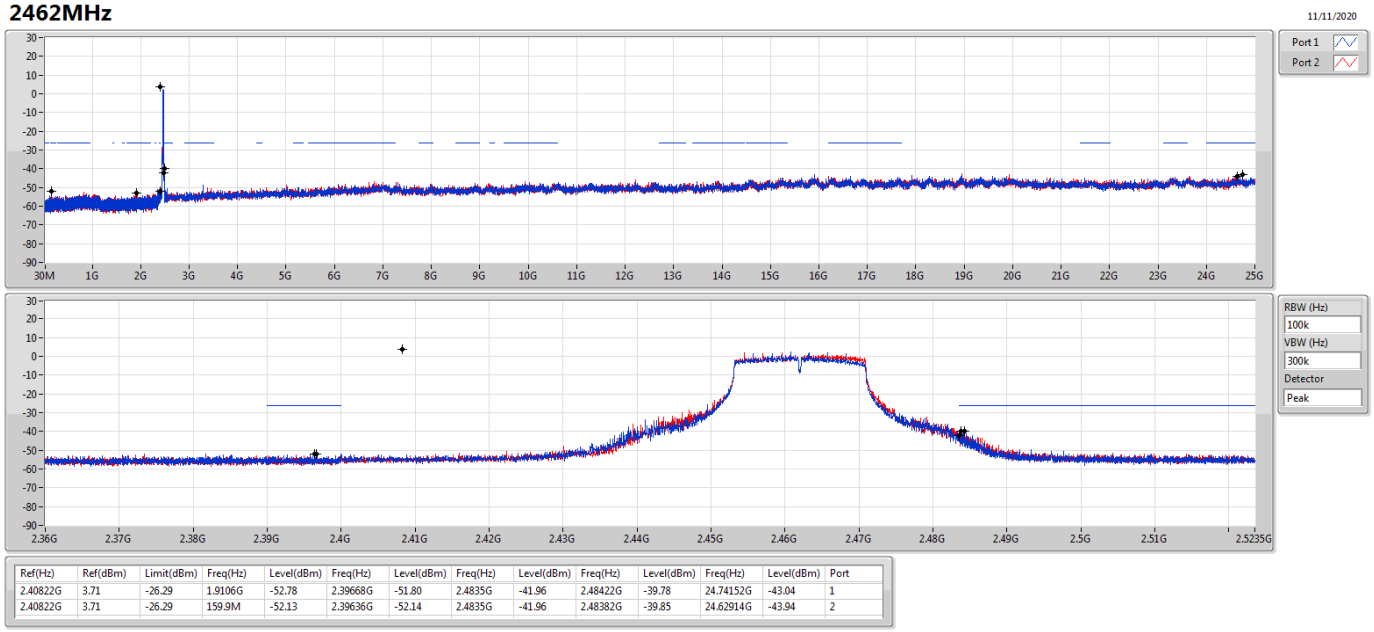
2437MHz



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
2.40822G	3.71	-26.29	826.57M	-53.16	2.39994G	-47.36	2.4G	-48.10	2.5G	-51.13	23.57555G	-44.65	1
2.40822G	3.71	-26.29	159.9M	-52.64	2.3992G	-51.41	2.4835G	-53.80	2.51824G	-51.95	24.71904G	-43.88	2

802.11n HT20_Nss1,(MCS0)_2TX **CSE NdB**

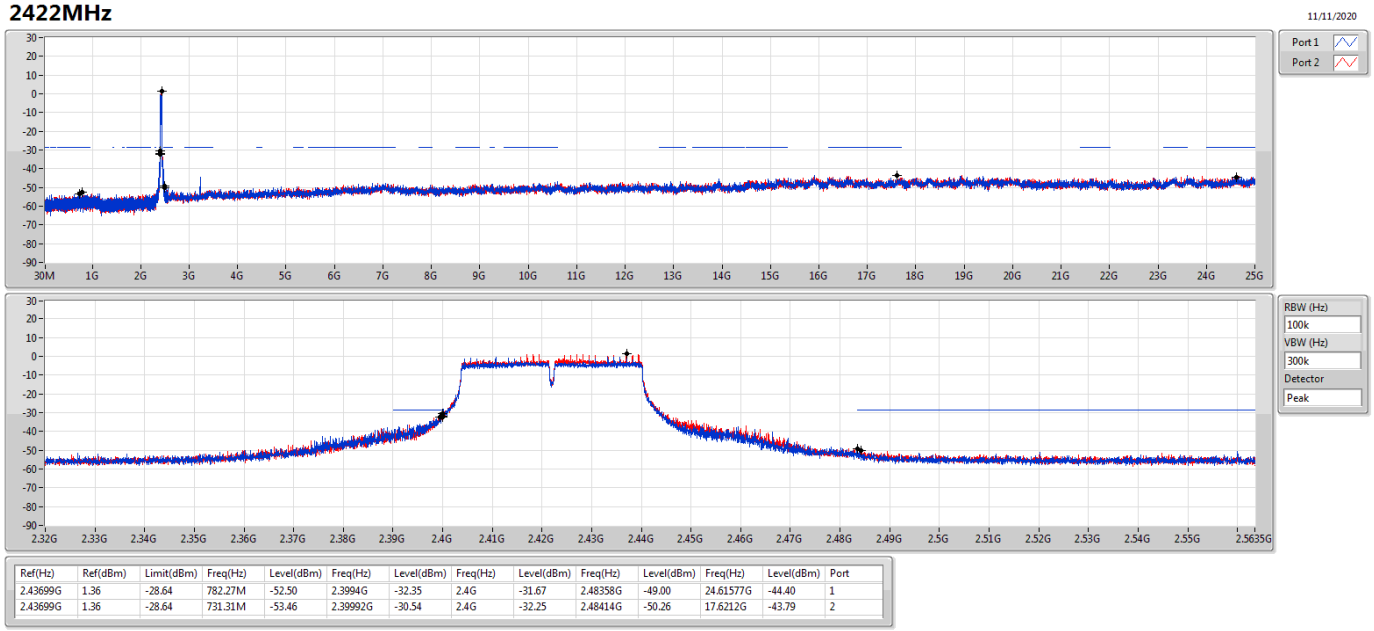
2462MHz



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
2.40822G	3.71	-26.29	1.9106G	-52.78	2.39668G	-51.80	2.4835G	-41.96	2.48422G	-39.78	24.74152G	-43.04	1
2.40822G	3.71	-26.29	159.9M	-52.13	2.39636G	-52.14	2.4835G	-41.96	2.48382G	-39.85	24.62914G	-43.94	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

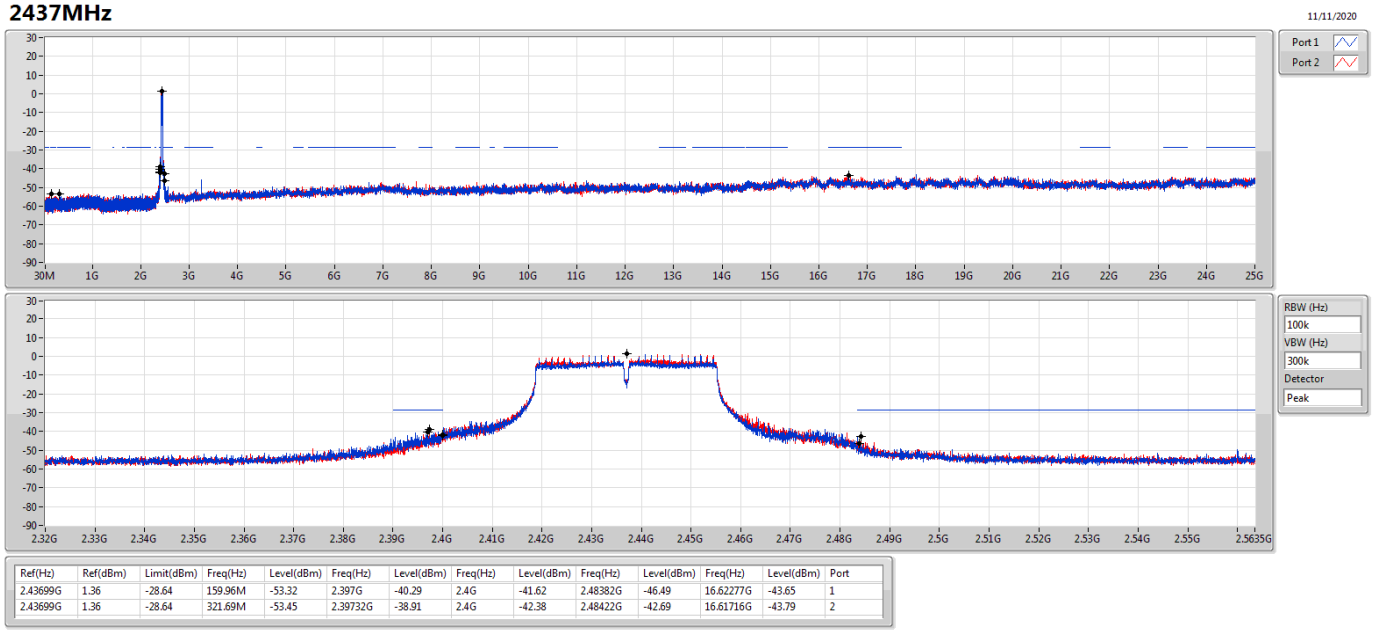
2422MHz



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
2.43699G	1.36	-28.64	782.27M	-52.50	2.3994G	-32.35	2.4G	-31.67	2.48358G	-49.00	24.61577G	-44.40	1
2.43699G	1.36	-28.64	731.31M	-53.46	2.39992G	-30.54	2.4G	-32.25	2.48414G	-50.26	17.6212G	-43.79	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

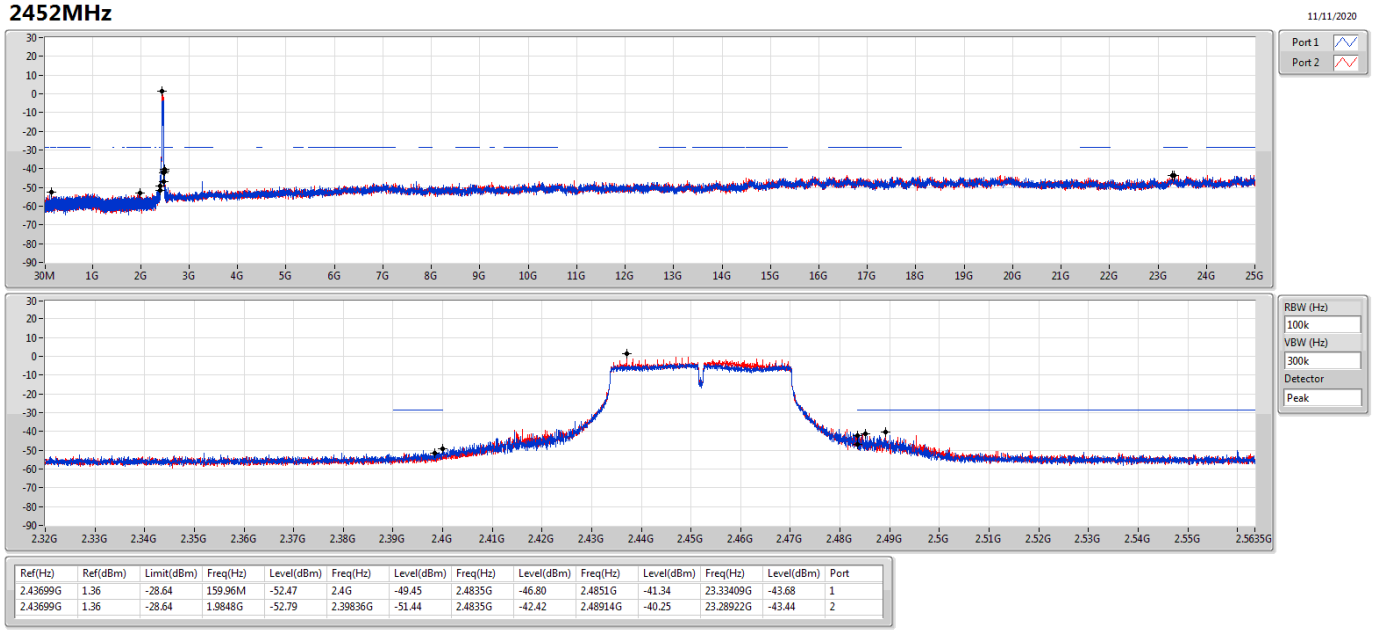
2437MHz



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
2.43699G	1.36	-28.64	159.96M	-53.32	2.397G	-40.29	2.4G	-41.62	2.48382G	-46.49	16.62277G	-43.65	1
2.43699G	1.36	-28.64	321.69M	-53.45	2.39732G	-38.91	2.4G	-42.38	2.48422G	-42.69	16.61716G	-43.79	2

802.11n HT40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



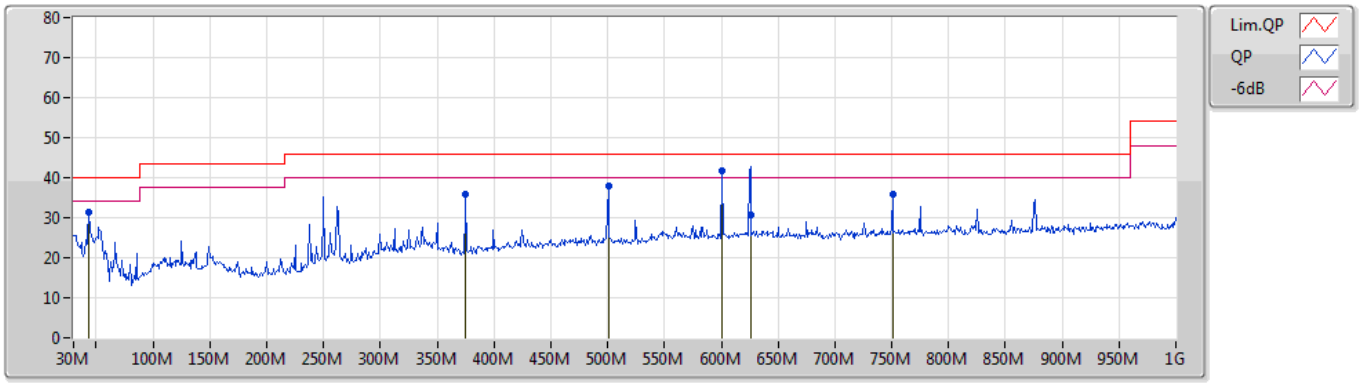
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43699G	1.36	-28.64	159.96M	-52.47	2.4G	-49.45	2.4835G	-46.80	2.4851G	-41.34	23.33409G	-43.68	1
2.43699G	1.36	-28.64	1.9848G	-52.79	2.39836G	-51.44	2.4835G	-42.42	2.48914G	-40.25	23.28922G	-43.44	2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	600.36	41.75	46.00	-4.25	Vertical

Mode 1

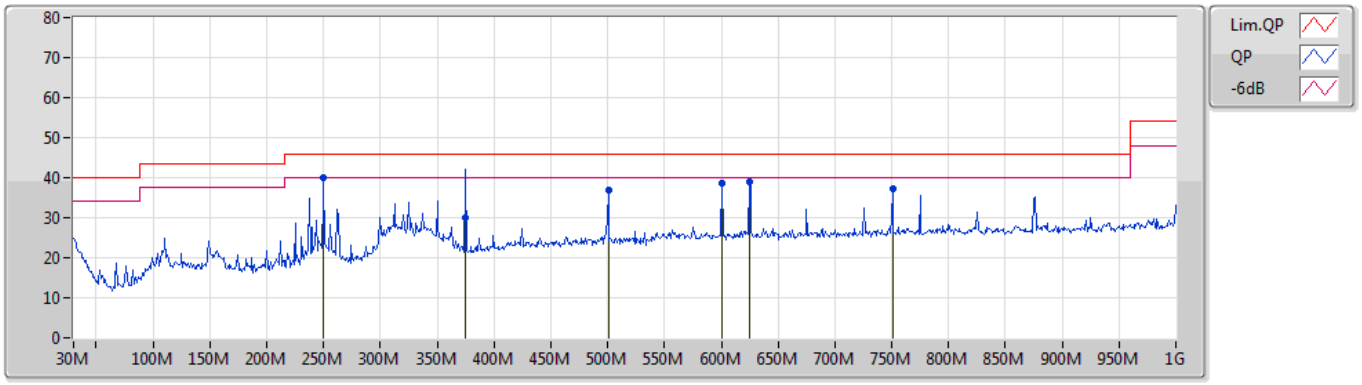
09/12/2020



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/m)	(dB/m)	(dB)	(dB)
PK	43.58M	31.45	40.00	-8.55	-14.93	3	Vertical	119	1.50	-	46.38	16.15	0.60	31.68
PK	375.32M	35.71	46.00	-10.29	-10.52	3	Vertical	353	1.25	-	46.23	19.92	1.65	32.09
PK	500.45M	37.93	46.00	-8.07	-7.66	3	Vertical	225	1.00	-	45.59	22.65	2.00	32.31
PK	600.36M	41.75	46.00	-4.25	-6.28	3	Vertical	88	1.00	"Worst"	48.03	23.89	2.20	32.37
QP	625.58M	30.64	46.00	-15.36	-5.98	3	Vertical	94	1.00		36.62	24.28	2.20	32.46
PK	750.71M	35.85	46.00	-10.15	-5.34	3	Vertical	50	1.50	-	41.19	24.82	2.40	32.56

Mode 1

09/12/2020



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/m)	(dB/m)	(dB)	(dB)
PK	250.19M	40.13	46.00	-5.87	-13.03	3	Horizontal	62	1.25	"Worst"	53.16	17.55	1.40	31.98
QP	375.32M	30.13	46.00	-15.87	-10.52	3	Horizontal	98	1.00		40.65	19.92	1.65	32.09
PK	500.45M	36.86	46.00	-9.14	-7.66	3	Horizontal	102	2.00	-	44.52	22.65	2.00	32.31
PK	600.36M	38.50	46.00	-7.50	-6.28	3	Horizontal	107	1.50	-	44.78	23.89	2.20	32.37
PK	624.61M	39.11	46.00	-6.89	-6.00	3	Horizontal	296	1.25	-	45.11	24.25	2.20	32.45
PK	750.71M	37.38	46.00	-8.62	-5.34	3	Horizontal	104	3.00	-	42.72	24.82	2.40	32.56

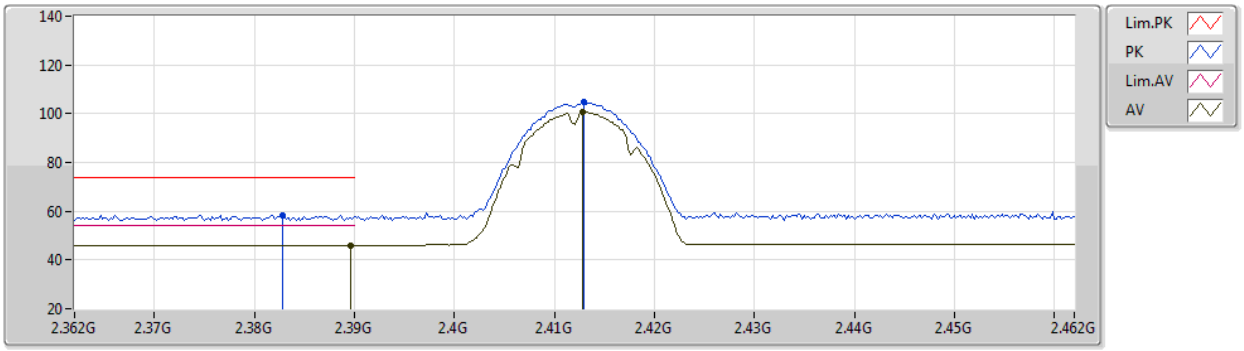
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	2.39G	73.75	74.00	-0.25	3	Horizontal	287	2.80	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

11/11/2020



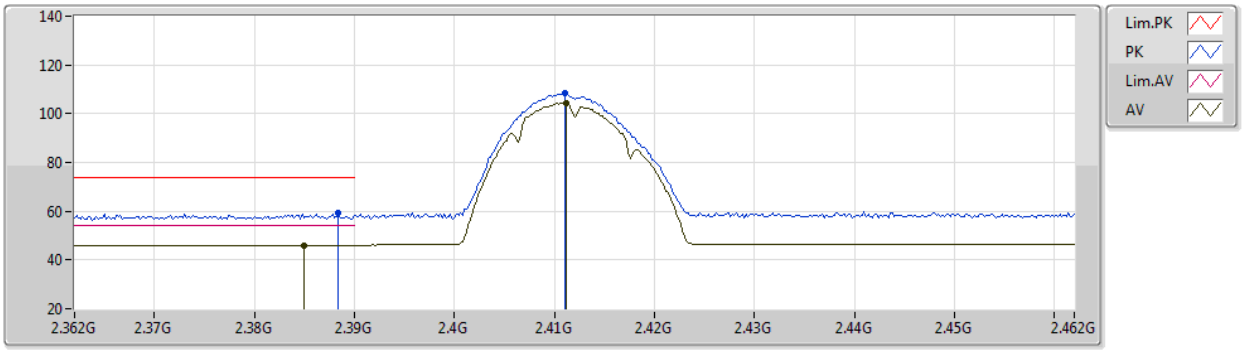
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3828G	58.48	74.00	-15.52	27.82	3	Vertical	182	1.80	-	28.25	2.41	-
AV	2.3896G	45.96	54.00	-8.04	15.28	3	Vertical	182	1.80	-	28.27	2.41	-
PK	2.413G	104.88	Inf	-Inf	74.13	3	Vertical	182	1.80	-	28.34	2.41	-
AV	2.4128G	100.63	Inf	-Inf	69.88	3	Vertical	182	1.80	-	28.34	2.41	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

11/11/2020



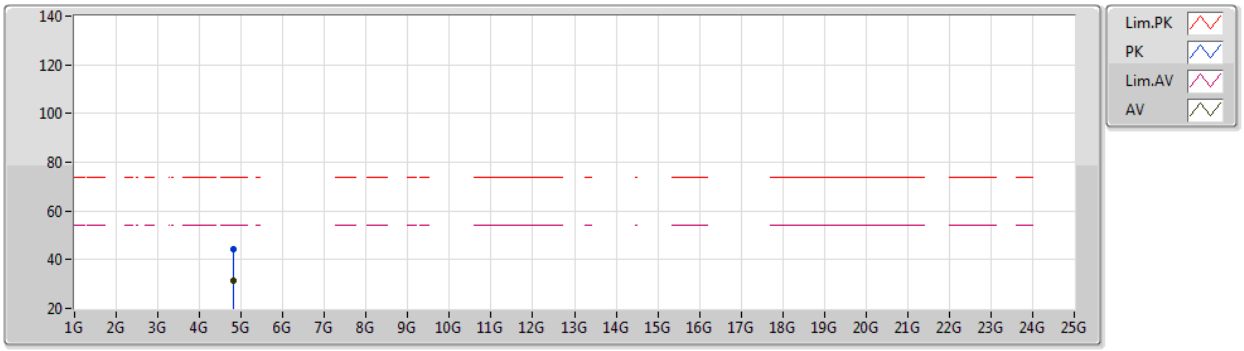
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3884G	59.23	74.00	-14.77	28.55	3	Horizontal	303	2.29	-	28.27	2.41	-
AV	2.385G	46.10	54.00	-7.90	15.43	3	Horizontal	303	2.29	-	28.26	2.41	-
PK	2.411G	108.37	Inf	-Inf	77.63	3	Horizontal	303	2.29	-	28.33	2.41	-
AV	2.4112G	104.22	Inf	-Inf	73.48	3	Horizontal	303	2.29	-	28.33	2.41	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

11/11/2020



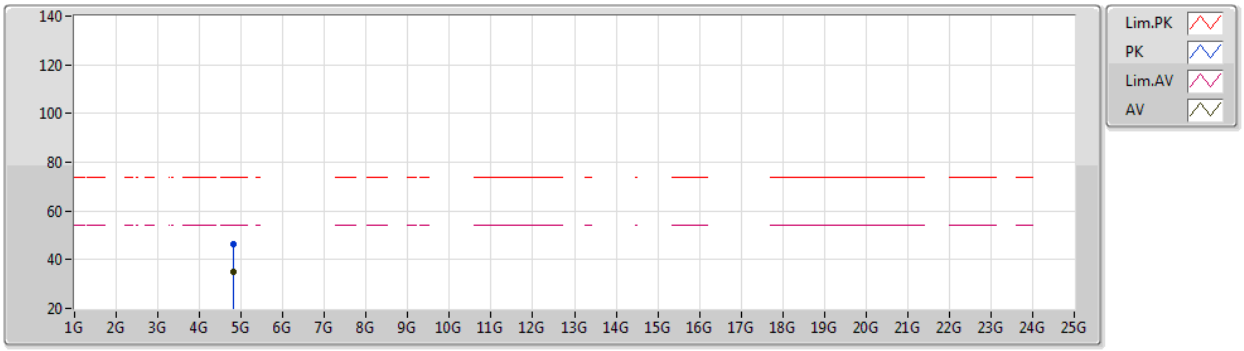
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82427G	44.25	74.00	-29.75	38.43	3	Vertical	103	1.20	-	32.90	4.70	31.78
AV	4.824G	31.20	54.00	-22.80	25.38	3	Vertical	103	1.20	-	32.90	4.70	31.78

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

11/11/2020



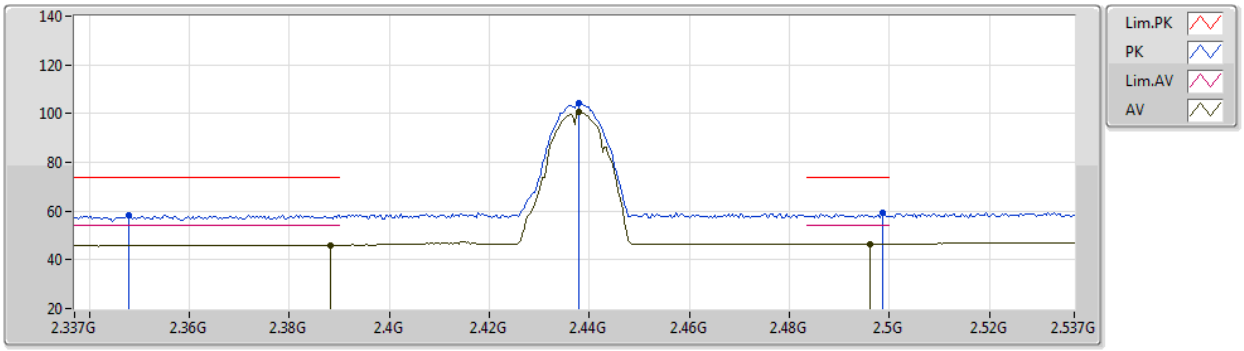
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82406G	46.44	74.00	-27.56	40.62	3	Horizontal	312	2.01	-	32.90	4.70	31.78
AV	4.82396G	34.82	54.00	-19.18	29.00	3	Horizontal	312	2.01	-	32.90	4.70	31.78

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

11/11/2020



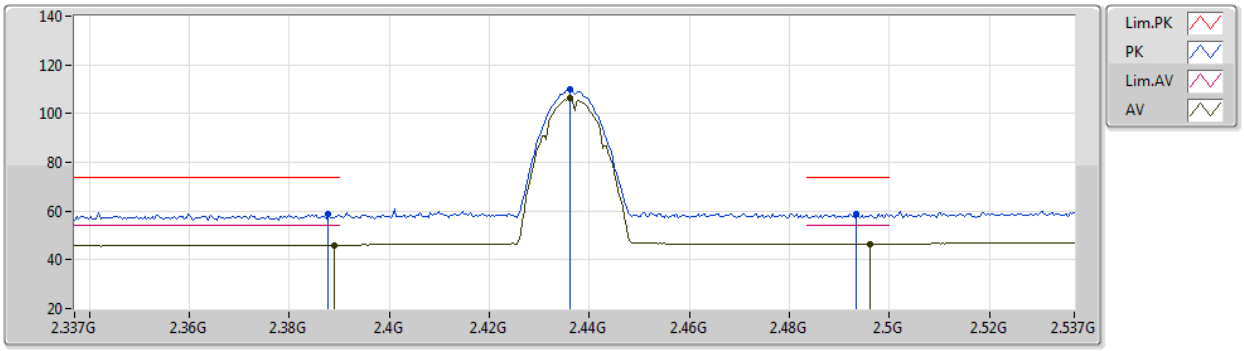
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3478G	58.25	74.00	-15.75	27.68	3	Vertical	241	2.98	-	28.14	2.43	-
AV	2.3882G	46.06	54.00	-7.94	15.39	3	Vertical	241	2.98	-	28.26	2.41	-
PK	2.4378G	104.39	Inf	-Inf	73.56	3	Vertical	241	2.98	-	28.41	2.42	-
AV	2.4378G	100.52	Inf	-Inf	69.69	3	Vertical	241	2.98	-	28.41	2.42	-
PK	2.4986G	59.50	74.00	-14.50	28.45	3	Vertical	241	2.98	-	28.60	2.45	-
AV	2.4962G	46.47	54.00	-7.53	15.43	3	Vertical	241	2.98	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

11/11/2020



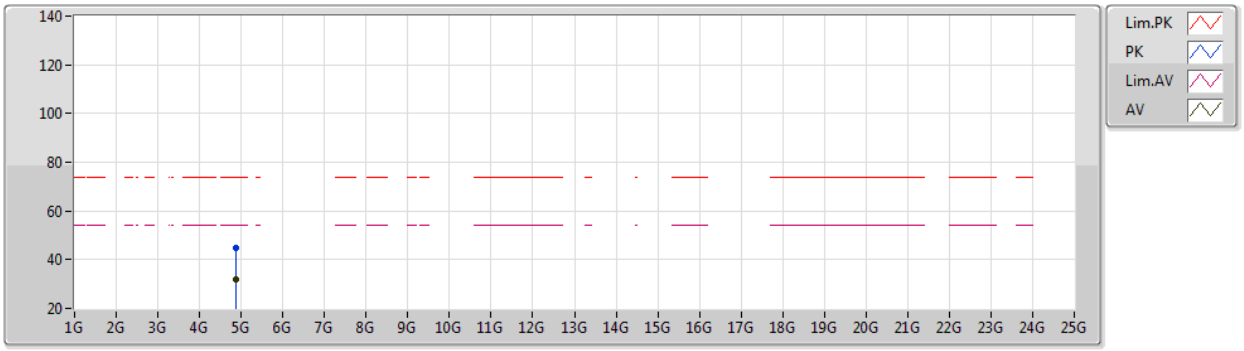
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3878G	58.96	74.00	-15.04	28.29	3	Horizontal	59	2.76	-	28.26	2.41	-
AV	2.389G	46.11	54.00	-7.89	15.43	3	Horizontal	59	2.76	-	28.27	2.41	-
PK	2.4362G	109.85	Inf	-Inf	79.02	3	Horizontal	59	2.76	-	28.41	2.42	-
AV	2.4362G	106.17	Inf	-Inf	75.34	3	Horizontal	59	2.76	-	28.41	2.42	-
PK	2.4934G	58.92	74.00	-15.08	27.89	3	Horizontal	59	2.76	-	28.58	2.45	-
AV	2.4962G	46.58	54.00	-7.42	15.54	3	Horizontal	59	2.76	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

11/11/2020



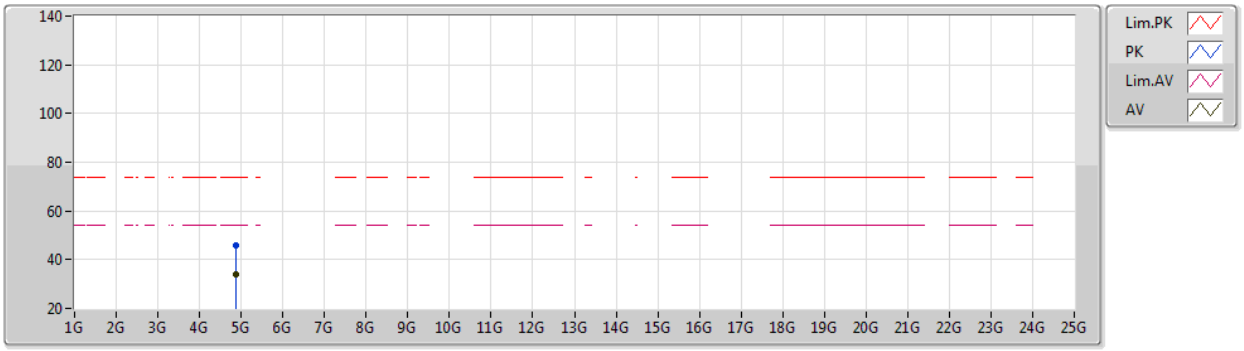
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87378G	44.96	74.00	-29.04	38.96	3	Vertical	334	2.58	-	33.10	4.70	31.80
AV	4.87397G	31.67	54.00	-22.33	25.67	3	Vertical	334	2.58	-	33.10	4.70	31.80

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

11/11/2020



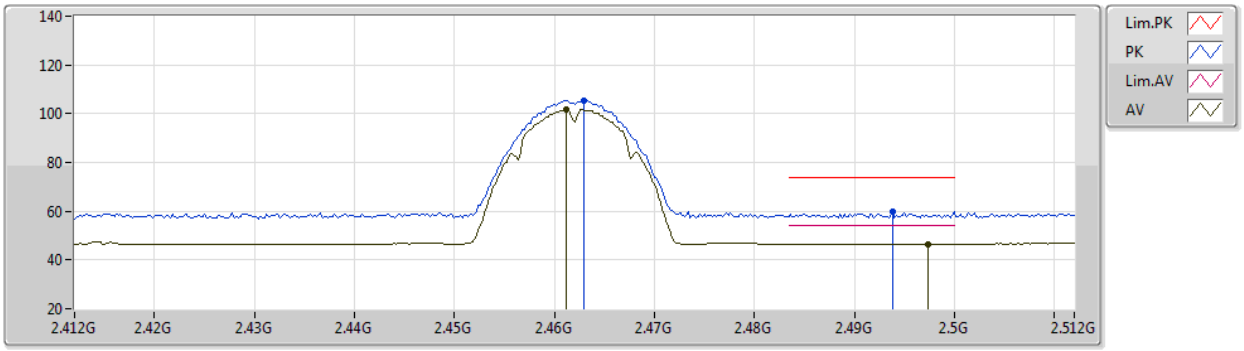
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87469G	45.77	74.00	-28.23	39.77	3	Horizontal	319	2.09	-	33.10	4.70	31.80
AV	4.87392G	33.75	54.00	-20.25	27.75	3	Horizontal	319	2.09	-	33.10	4.70	31.80

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

11/11/2020



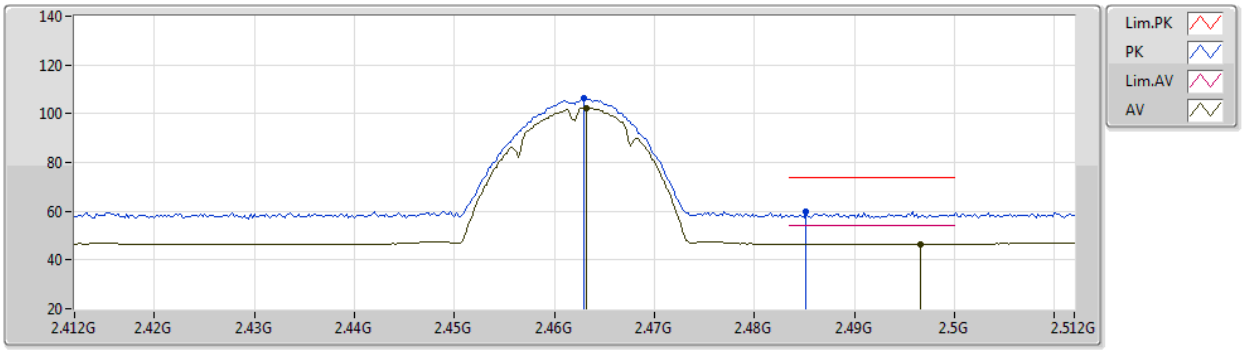
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	105.60	Inf	-Inf	74.68	3	Vertical	190	2.98	-	28.49	2.43	-
AV	2.4612G	101.73	Inf	-Inf	70.82	3	Vertical	190	2.98	-	28.48	2.43	-
PK	2.4938G	59.64	74.00	-14.36	28.61	3	Vertical	190	2.98	-	28.58	2.45	-
AV	2.4974G	46.59	54.00	-7.41	15.55	3	Vertical	190	2.98	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

11/11/2020



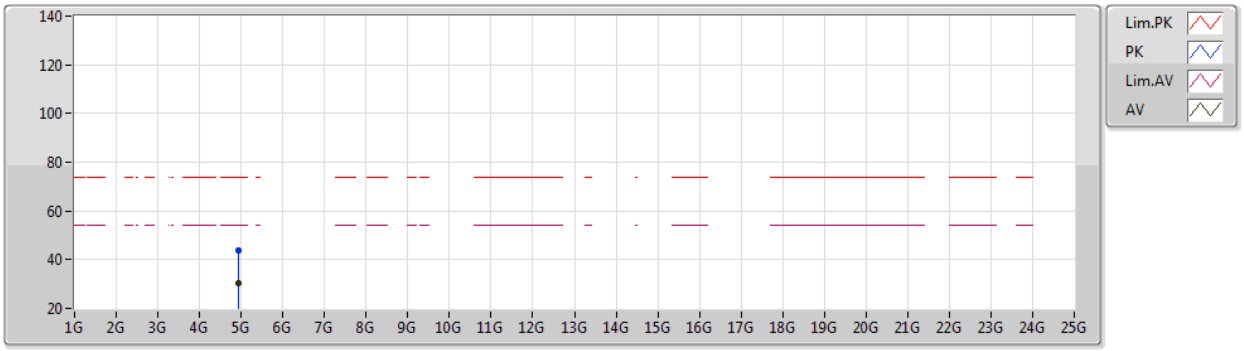
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.463G	106.25	Inf	-Inf	75.33	3	Horizontal	47	2.86	-	28.49	2.43	-
AV	2.4632G	102.33	Inf	-Inf	71.41	3	Horizontal	47	2.86	-	28.49	2.43	-
PK	2.4852G	59.82	74.00	-14.18	28.82	3	Horizontal	47	2.86	-	28.56	2.44	-
AV	2.4966G	46.61	54.00	-7.39	15.57	3	Horizontal	47	2.86	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

11/11/2020



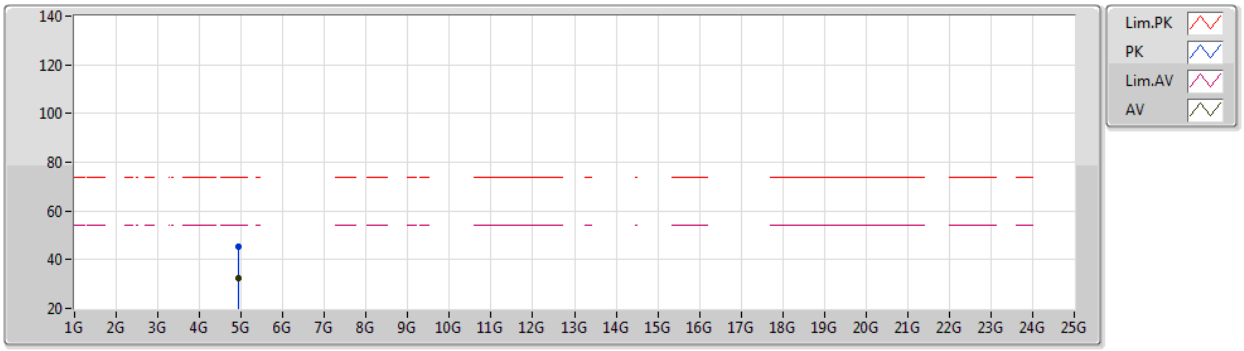
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92336G	43.78	74.00	-30.22	37.68	3	Vertical	22	2.08	-	33.22	4.70	31.82
AV	4.92392G	30.22	54.00	-23.78	24.12	3	Vertical	22	2.08	-	33.22	4.70	31.82

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

11/11/2020



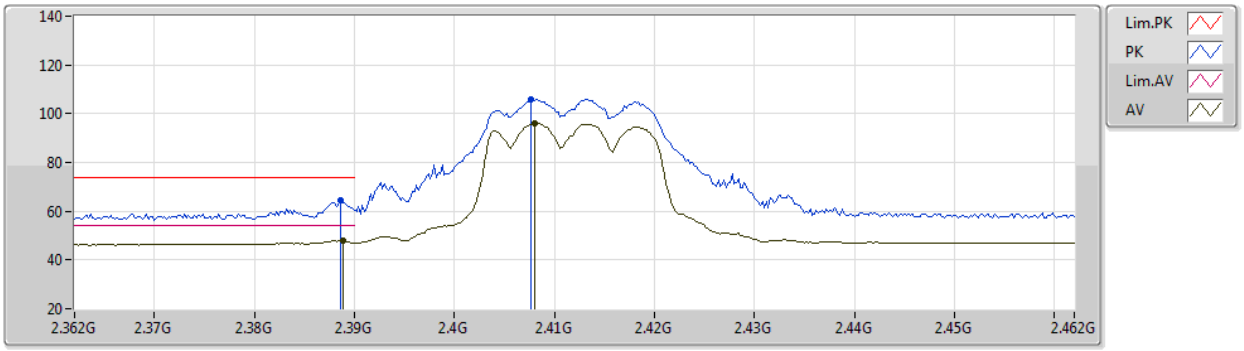
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92356G	45.32	74.00	-28.68	39.22	3	Horizontal	321	2.37	-	33.22	4.70	31.82
AV	4.92393G	32.38	54.00	-21.62	26.28	3	Horizontal	321	2.37	-	33.22	4.70	31.82

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

11/11/2020



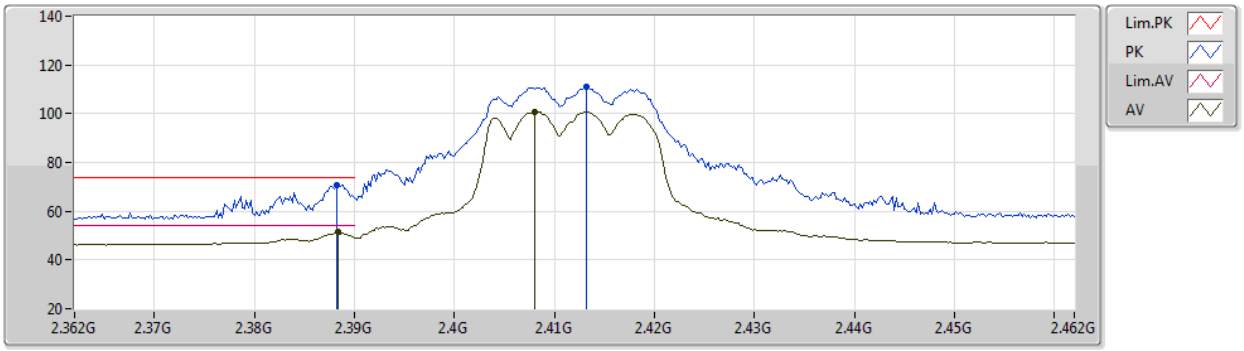
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3886G	64.52	74.00	-9.48	33.84	3	Vertical	249	2.76	-	28.27	2.41	-
AV	2.3888G	47.88	54.00	-6.12	17.20	3	Vertical	249	2.76	-	28.27	2.41	-
PK	2.4076G	105.87	Inf	-Inf	75.15	3	Vertical	249	2.76	-	28.32	2.40	-
AV	2.408G	95.99	Inf	-Inf	65.27	3	Vertical	249	2.76	-	28.32	2.40	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

11/11/2020



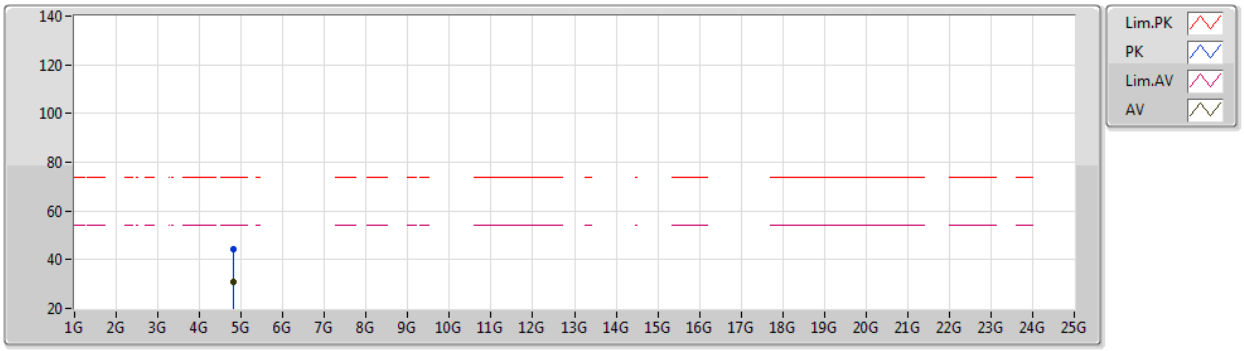
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	70.46	74.00	-3.54	39.79	3	Horizontal	292	2.80	-	28.26	2.41	-
AV	2.3884G	51.34	54.00	-2.66	20.66	3	Horizontal	292	2.80	-	28.27	2.41	-
PK	2.4132G	110.97	Inf	-Inf	80.22	3	Horizontal	292	2.80	-	28.34	2.41	-
AV	2.408G	100.89	Inf	-Inf	70.17	3	Horizontal	292	2.80	-	28.32	2.40	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

11/11/2020



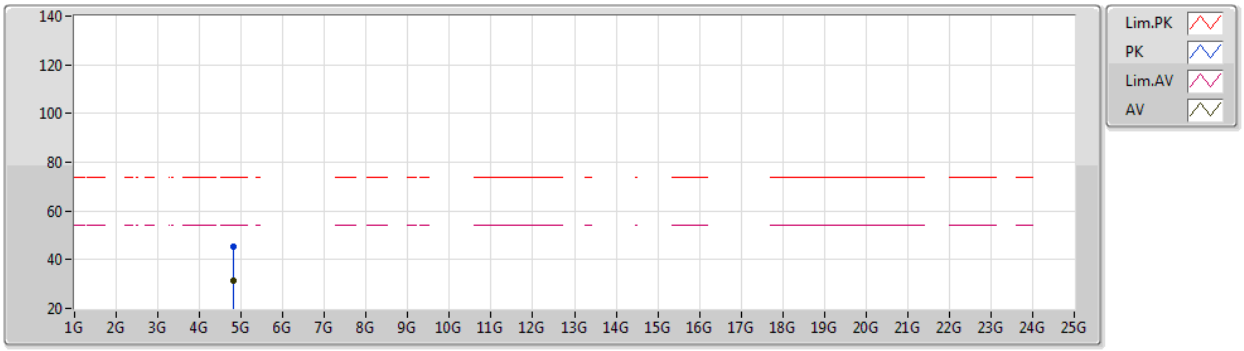
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82362G	44.17	74.00	-29.83	38.36	3	Vertical	73	2.07	-	32.89	4.70	31.78
AV	4.82403G	31.12	54.00	-22.88	25.30	3	Vertical	73	2.07	-	32.90	4.70	31.78

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

11/11/2020



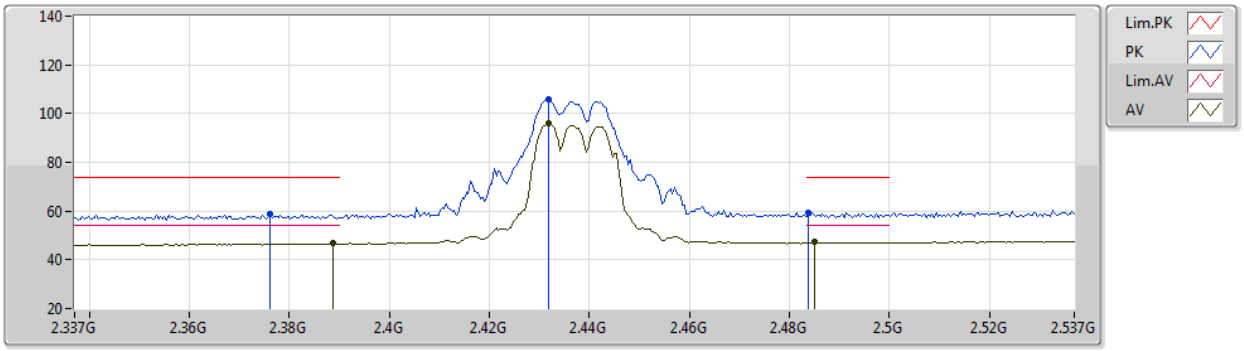
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82369G	45.44	74.00	-28.56	39.63	3	Horizontal	306	1.79	-	32.89	4.70	31.78
AV	4.82352G	31.39	54.00	-22.61	25.58	3	Horizontal	306	1.79	-	32.89	4.70	31.78

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

11/11/2020



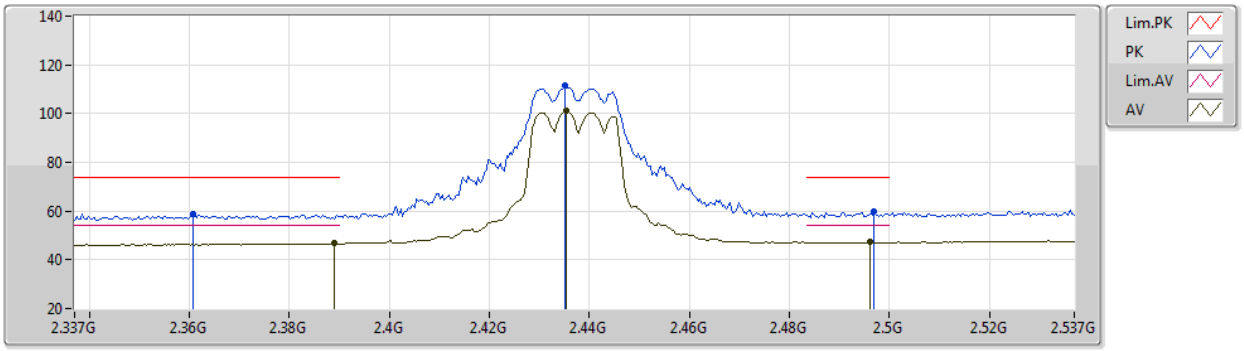
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3762G	58.70	74.00	-15.30	28.06	3	Vertical	195	2.77	-	28.23	2.41	-
AV	2.3886G	46.67	54.00	-7.33	15.99	3	Vertical	195	2.77	-	28.27	2.41	-
PK	2.4318G	105.79	Inf	-Inf	74.97	3	Vertical	195	2.77	-	28.40	2.42	-
AV	2.4318G	95.86	Inf	-Inf	65.04	3	Vertical	195	2.77	-	28.40	2.42	-
PK	2.4838G	59.43	74.00	-14.57	28.44	3	Vertical	195	2.77	-	28.55	2.44	-
AV	2.485G	47.19	54.00	-6.81	16.19	3	Vertical	195	2.77	-	28.56	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

11/11/2020



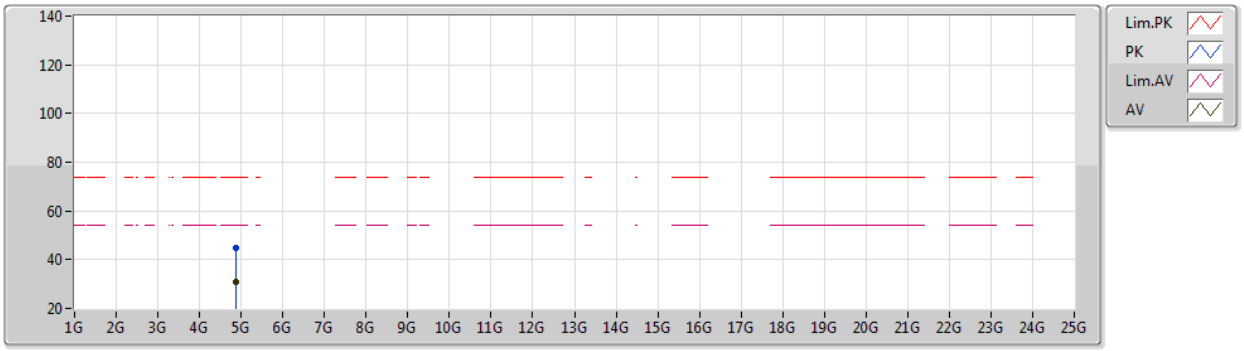
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3606G	58.55	74.00	-15.45	27.95	3	Horizontal	298	2.26	-	28.18	2.42	-
AV	2.389G	46.77	54.00	-7.23	16.09	3	Horizontal	298	2.26	-	28.27	2.41	-
PK	2.435G	111.70	Inf	-Inf	80.87	3	Horizontal	298	2.26	-	28.41	2.42	-
AV	2.4354G	100.98	Inf	-Inf	70.15	3	Horizontal	298	2.26	-	28.41	2.42	-
PK	2.497G	59.79	74.00	-14.21	28.75	3	Horizontal	298	2.26	-	28.59	2.45	-
AV	2.4962G	47.33	54.00	-6.67	16.29	3	Horizontal	298	2.26	-	28.59	2.45	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

11/11/2020



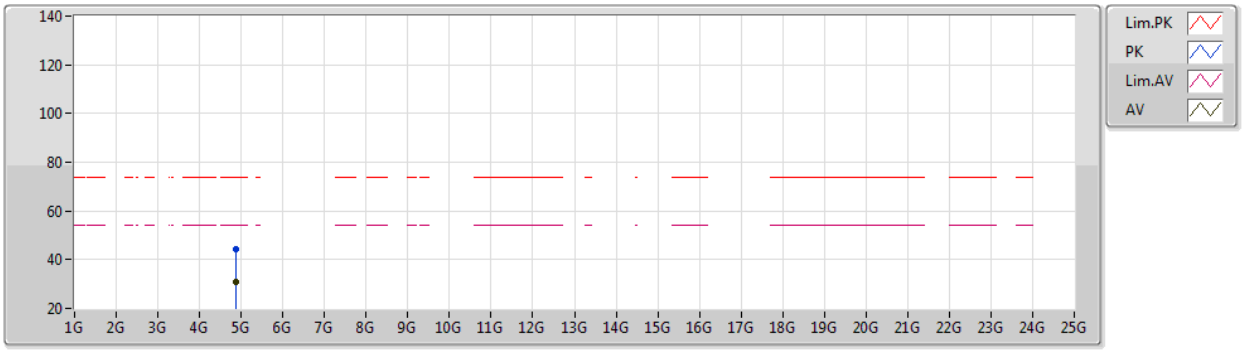
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87474G	44.72	74.00	-29.28	38.72	3	Vertical	142	2.94	-	33.10	4.70	31.80
AV	4.87401G	31.09	54.00	-22.91	25.09	3	Vertical	142	2.94	-	33.10	4.70	31.80

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

11/11/2020



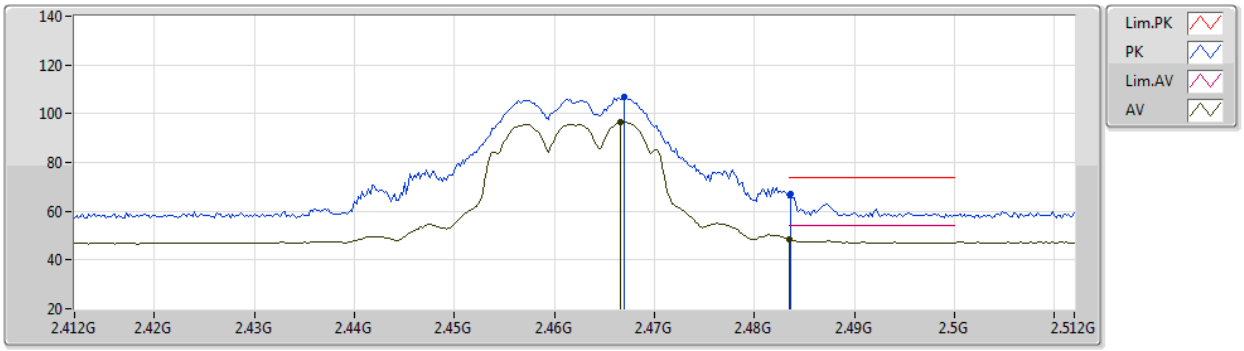
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87438G	44.33	74.00	-29.67	38.33	3	Horizontal	293	2.34	-	33.10	4.70	31.80
AV	4.87363G	31.03	54.00	-22.97	25.04	3	Horizontal	293	2.34	-	33.09	4.70	31.80

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

11/11/2020



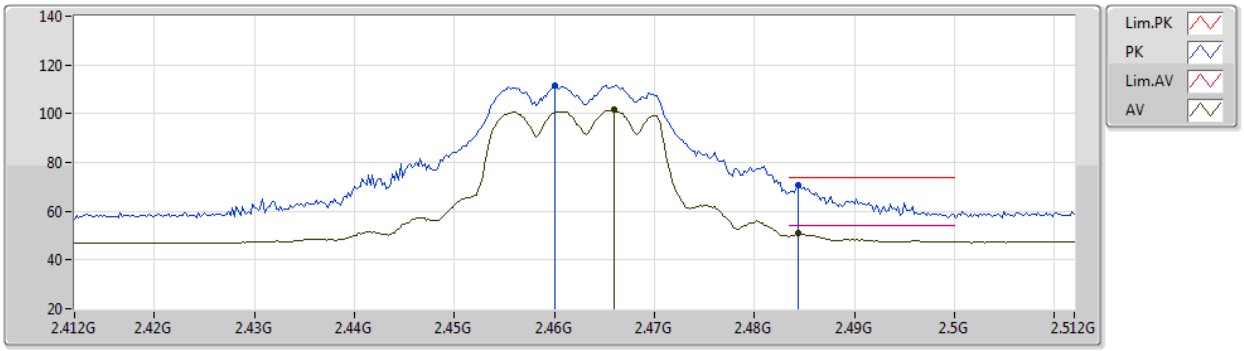
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.467G	106.84	Inf	-Inf	75.91	3	Vertical	193	2.98	-	28.50	2.43	-
AV	2.4666G	96.62	Inf	-Inf	65.69	3	Vertical	193	2.98	-	28.50	2.43	-
PK	2.4836G	67.10	74.00	-6.90	36.11	3	Vertical	193	2.98	-	28.55	2.44	-
AV	2.4835G	48.57	54.00	-5.43	17.58	3	Vertical	193	2.98	-	28.55	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

11/11/2020



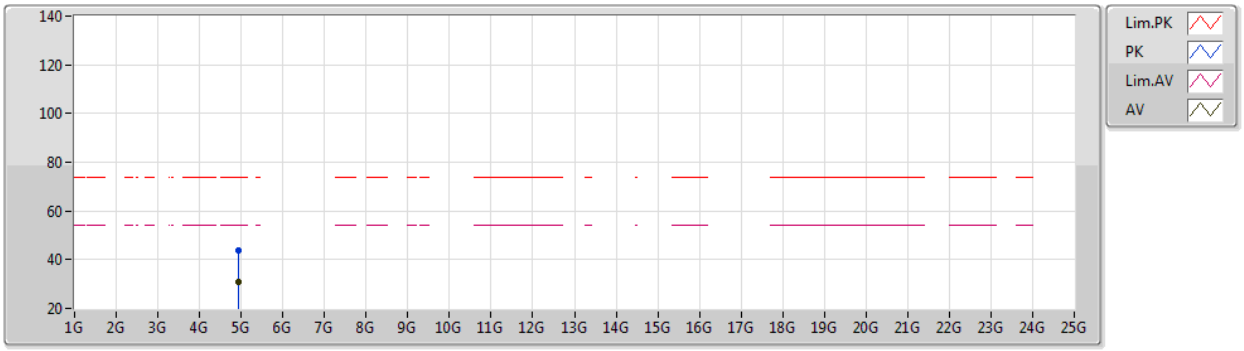
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.46G	111.42	Inf	-Inf	80.51	3	Horizontal	297	2.94	-	28.48	2.43	-
AV	2.466G	101.62	Inf	-Inf	70.69	3	Horizontal	297	2.94	-	28.50	2.43	-
PK	2.4844G	70.93	74.00	-3.07	39.94	3	Horizontal	297	2.94	-	28.55	2.44	-
AV	2.4844G	50.87	54.00	-3.13	19.88	3	Horizontal	297	2.94	-	28.55	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

11/11/2020



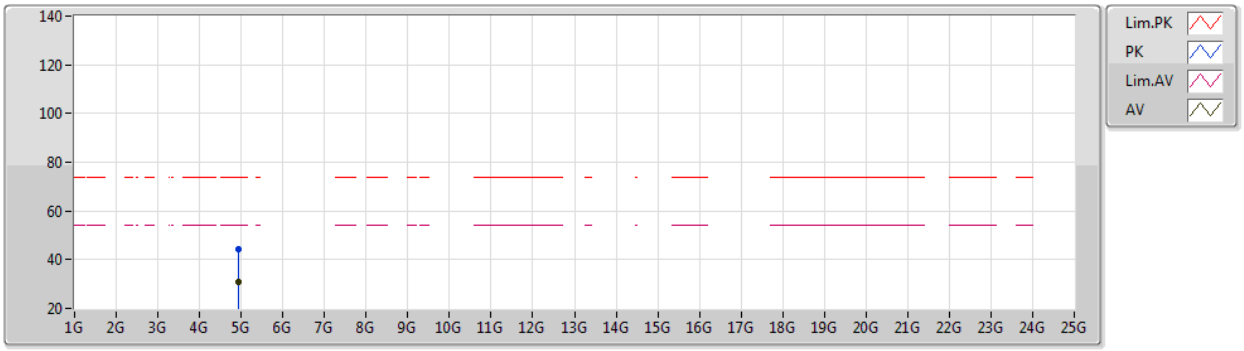
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92351G	43.68	74.00	-30.32	37.58	3	Vertical	132	1.66	-	33.22	4.70	31.82
AV	4.92341G	30.79	54.00	-23.21	24.69	3	Vertical	132	1.66	-	33.22	4.70	31.82

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

11/11/2020



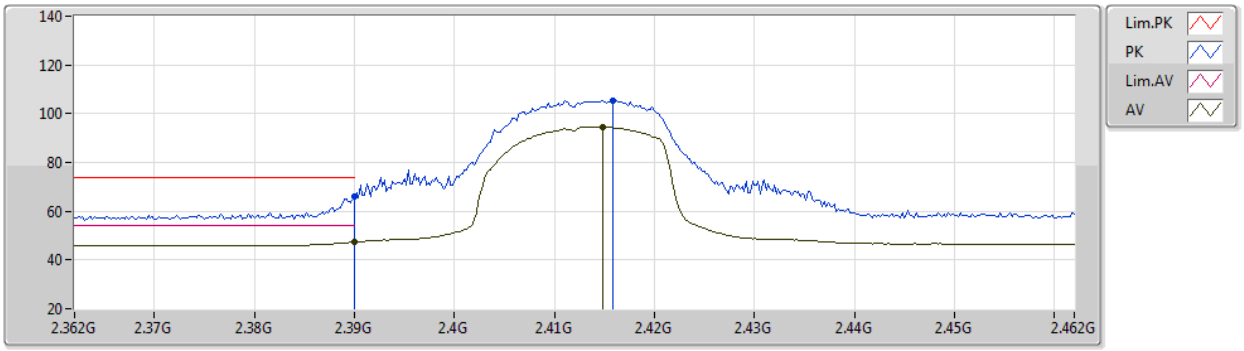
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92386G	44.50	74.00	-29.50	38.40	3	Horizontal	207	2.86	-	33.22	4.70	31.82
AV	4.92339G	30.85	54.00	-23.15	24.75	3	Horizontal	207	2.86	-	33.22	4.70	31.82

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

11/11/2020



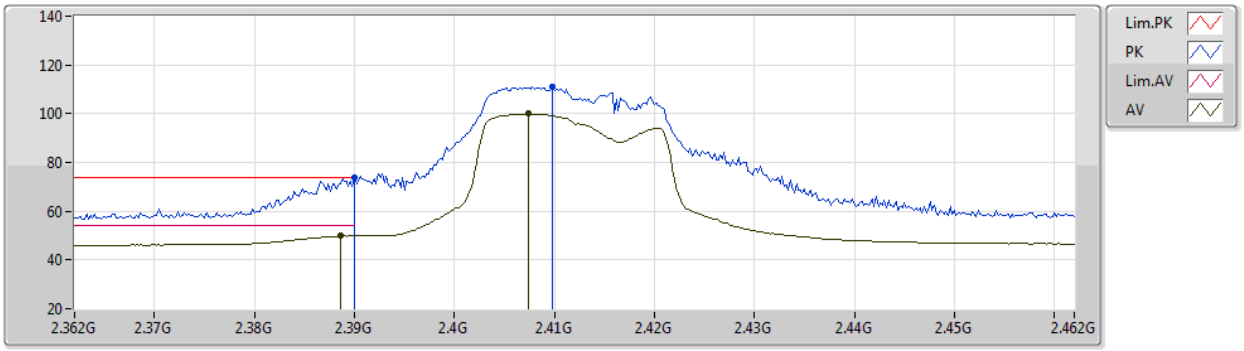
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	65.88	74.00	-8.12	35.20	3	Vertical	182	1.80	-	28.27	2.41	-
AV	2.39G	47.32	54.00	-6.68	16.64	3	Vertical	182	1.80	-	28.27	2.41	-
PK	2.4158G	105.54	Inf	-Inf	74.78	3	Vertical	182	1.80	-	28.35	2.41	-
AV	2.4148G	94.73	Inf	-Inf	63.98	3	Vertical	182	1.80	-	28.34	2.41	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

11/11/2020



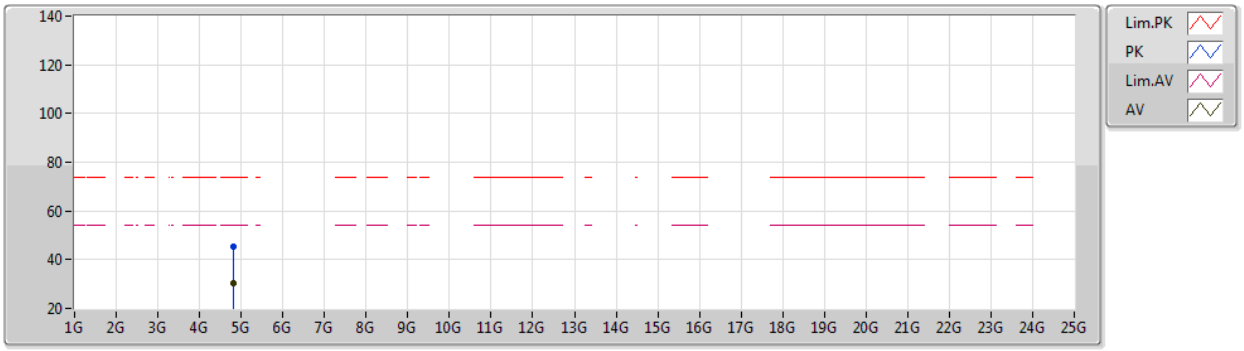
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	73.68	74.00	-0.32	43.01	3	Horizontal	300	2.81	-	28.27	2.40	-
AV	2.3886G	49.81	54.00	-4.19	19.13	3	Horizontal	300	2.81	-	28.27	2.41	-
PK	2.4098G	110.91	Inf	-Inf	80.18	3	Horizontal	300	2.81	-	28.33	2.40	-
AV	2.4074G	99.96	Inf	-Inf	69.24	3	Horizontal	300	2.81	-	28.32	2.40	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

11/11/2020



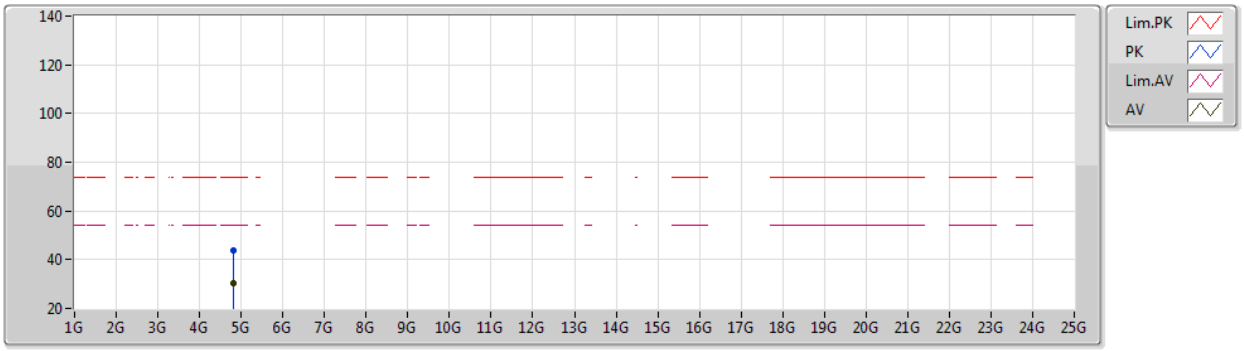
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.823G	45.31	74.00	-28.69	39.50	3	Vertical	349	1.26	-	32.89	4.70	31.78
AV	4.8238G	30.51	54.00	-23.49	24.69	3	Vertical	349	1.26	-	32.90	4.70	31.78

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

11/11/2020



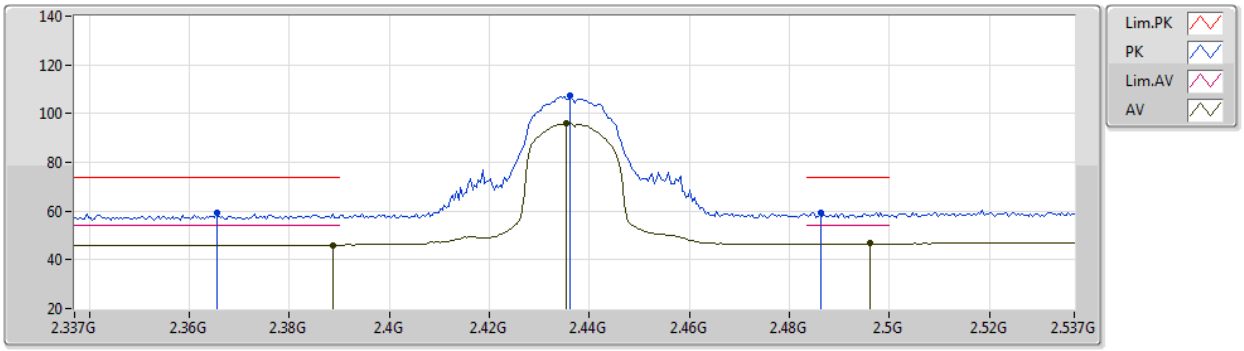
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8231G	43.90	74.00	-30.10	38.09	3	Horizontal	193	2.88	-	32.89	4.70	31.78
AV	4.82362G	30.43	54.00	-23.57	24.62	3	Horizontal	193	2.88	-	32.89	4.70	31.78

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



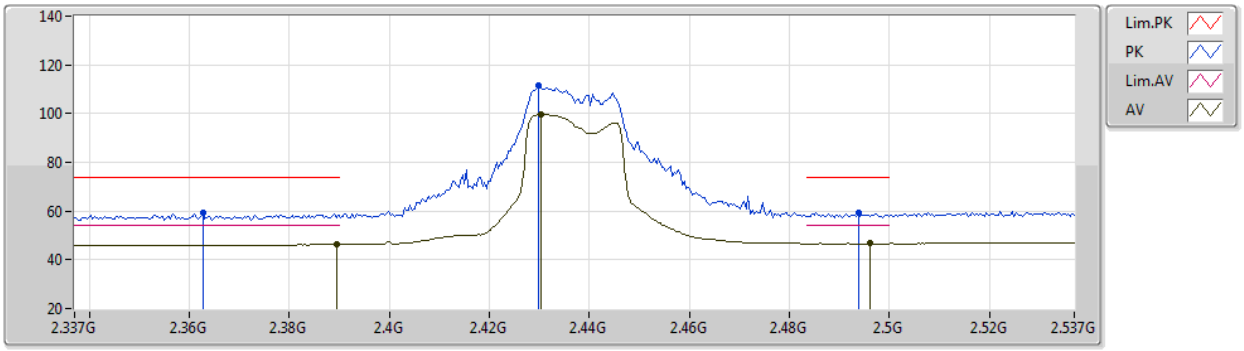
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3654G	59.16	74.00	-14.84	28.54	3	Vertical	196	2.71	-	28.20	2.42	-
AV	2.3886G	46.11	54.00	-7.89	15.43	3	Vertical	196	2.71	-	28.27	2.41	-
PK	2.4362G	107.25	Inf	-Inf	76.42	3	Vertical	196	2.71	-	28.41	2.42	-
AV	2.4354G	96.03	Inf	-Inf	65.20	3	Vertical	196	2.71	-	28.41	2.42	-
PK	2.4862G	59.39	74.00	-14.61	28.39	3	Vertical	196	2.71	-	28.56	2.44	-
AV	2.4962G	46.65	54.00	-7.35	15.61	3	Vertical	196	2.71	-	28.59	2.45	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



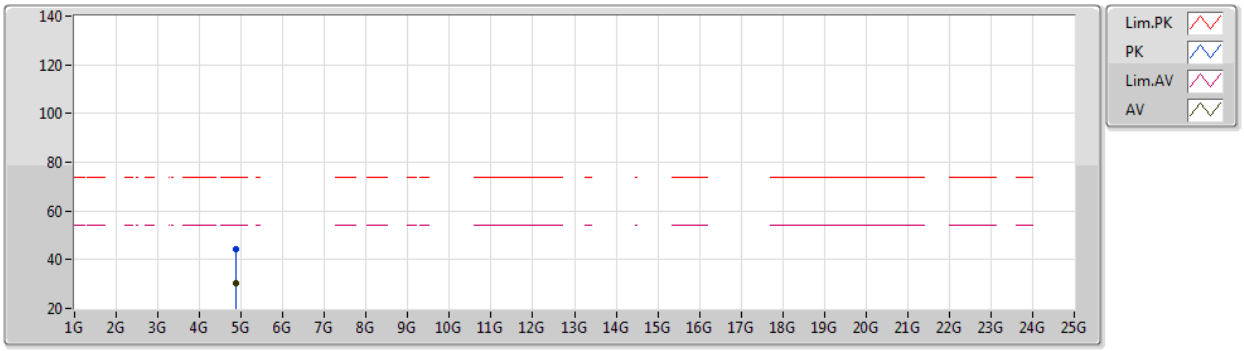
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3626G	59.13	74.00	-14.87	28.52	3	Horizontal	300	2.74	-	28.19	2.42	-
AV	2.3894G	46.29	54.00	-7.71	15.61	3	Horizontal	300	2.74	-	28.27	2.41	-
PK	2.4298G	111.63	Inf	-Inf	80.83	3	Horizontal	300	2.74	-	28.39	2.41	-
AV	2.4302G	99.56	Inf	-Inf	68.75	3	Horizontal	300	2.74	-	28.39	2.42	-
PK	2.4938G	59.25	74.00	-14.75	28.22	3	Horizontal	300	2.74	-	28.58	2.45	-
AV	2.4962G	46.74	54.00	-7.26	15.70	3	Horizontal	300	2.74	-	28.59	2.45	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



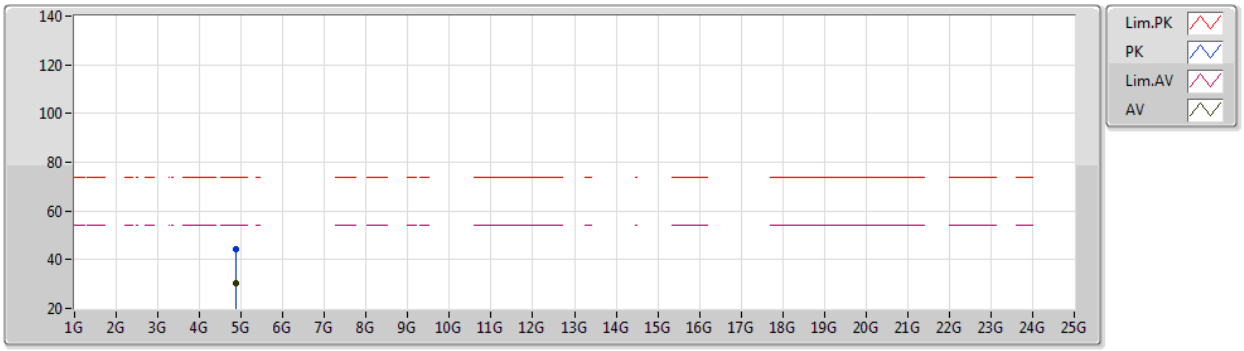
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87387G	44.38	74.00	-29.62	38.38	3	Vertical	304	1.47	-	33.10	4.70	31.80
AV	4.87386G	30.53	54.00	-23.47	24.53	3	Vertical	304	1.47	-	33.10	4.70	31.80

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



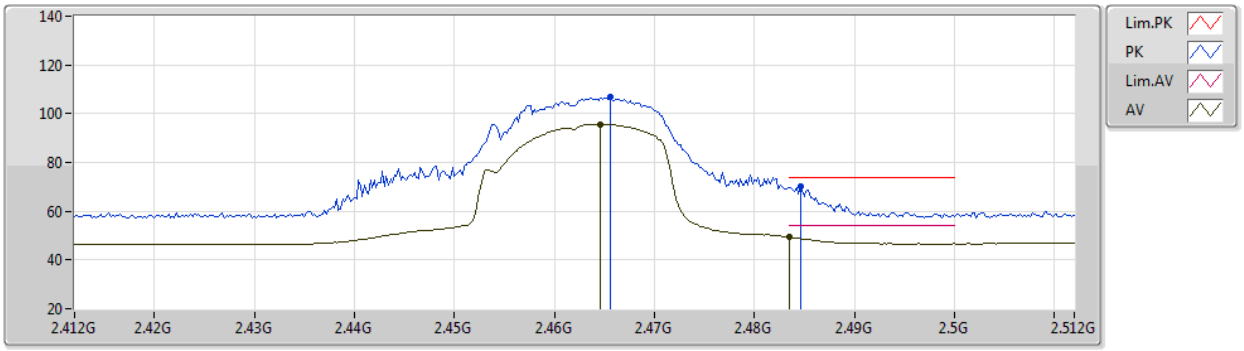
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87453G	44.19	74.00	-29.81	38.19	3	Horizontal	358	1.03	-	33.10	4.70	31.80
AV	4.87398G	30.60	54.00	-23.40	24.60	3	Horizontal	358	1.03	-	33.10	4.70	31.80

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

11/11/2020



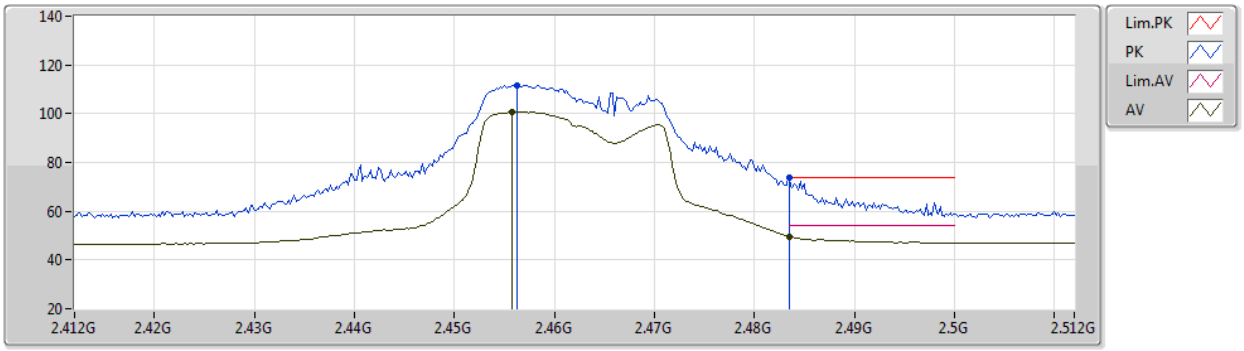
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4656G	106.65	Inf	-Inf	75.72	3	Vertical	177	2.98	-	28.50	2.43	-
AV	2.4646G	95.77	Inf	-Inf	64.85	3	Vertical	177	2.98	-	28.49	2.43	-
PK	2.4846G	70.34	74.00	-3.66	39.35	3	Vertical	177	2.98	-	28.55	2.44	-
AV	2.4835G	49.46	54.00	-4.54	18.47	3	Vertical	177	2.98	-	28.55	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

11/11/2020



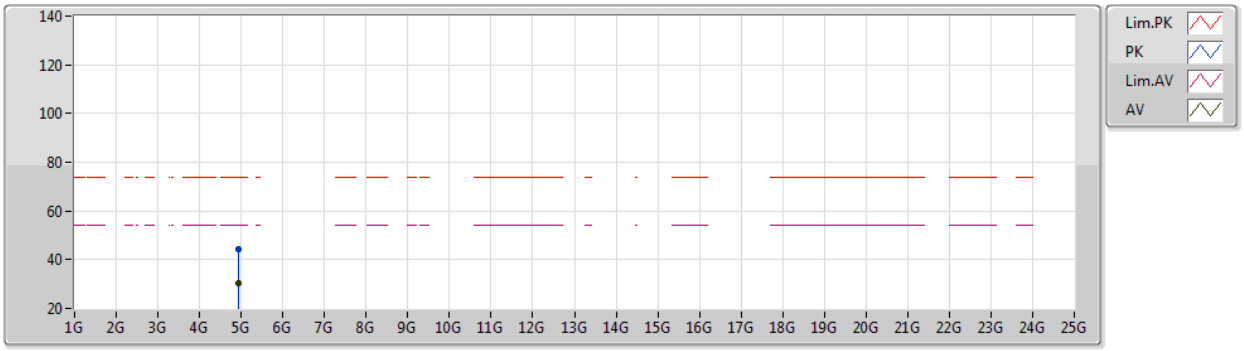
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4562G	111.71	Inf	-Inf	80.81	3	Horizontal	294	2.98	-	28.47	2.43	-
AV	2.4558G	100.80	Inf	-Inf	69.90	3	Horizontal	294	2.98	-	28.47	2.43	-
PK	2.4835G	73.57	74.00	-0.43	42.58	3	Horizontal	294	2.98	-	28.55	2.44	-
AV	2.4835G	49.66	54.00	-4.34	18.67	3	Horizontal	294	2.98	-	28.55	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

11/11/2020



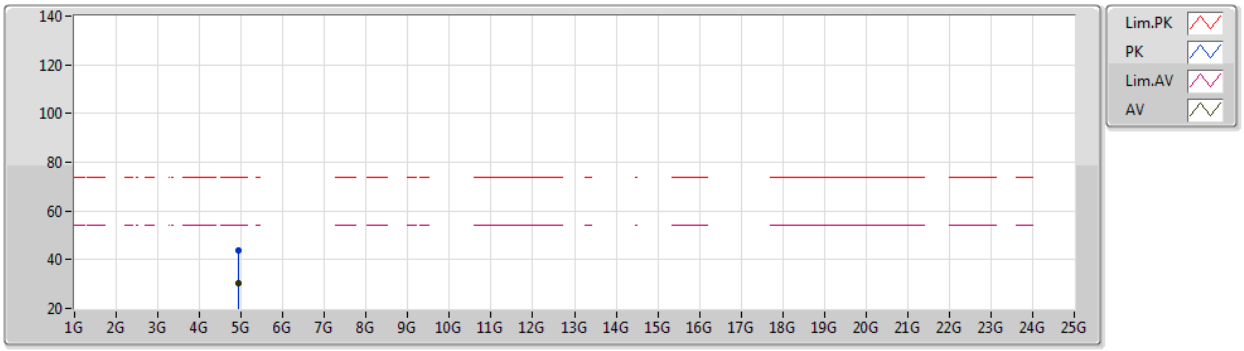
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92495G	44.21	74.00	-29.79	38.11	3	Vertical	308	2.13	-	33.22	4.70	31.82
AV	4.92323G	30.12	54.00	-23.88	24.02	3	Vertical	308	2.13	-	33.22	4.70	31.82

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

11/11/2020



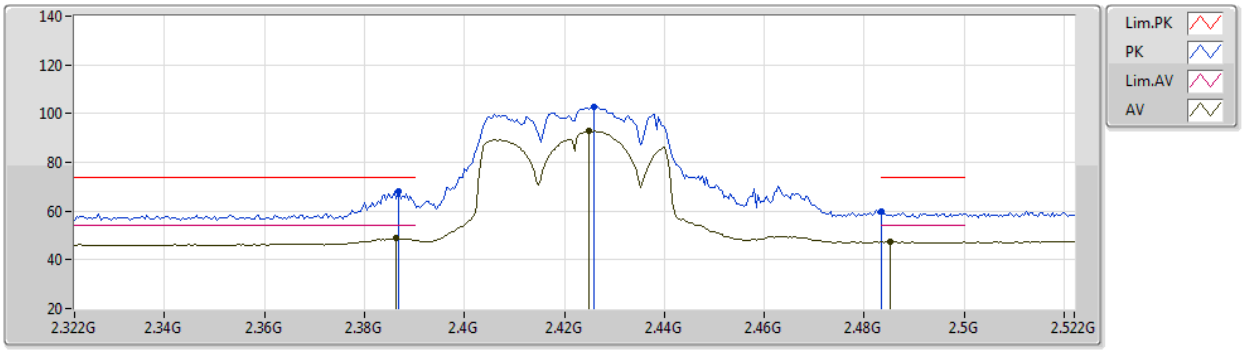
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92422G	43.83	74.00	-30.17	37.73	3	Horizontal	105	2.07	-	33.22	4.70	31.82
AV	4.9245G	30.15	54.00	-23.85	24.05	3	Horizontal	105	2.07	-	33.22	4.70	31.82

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

11/11/2020



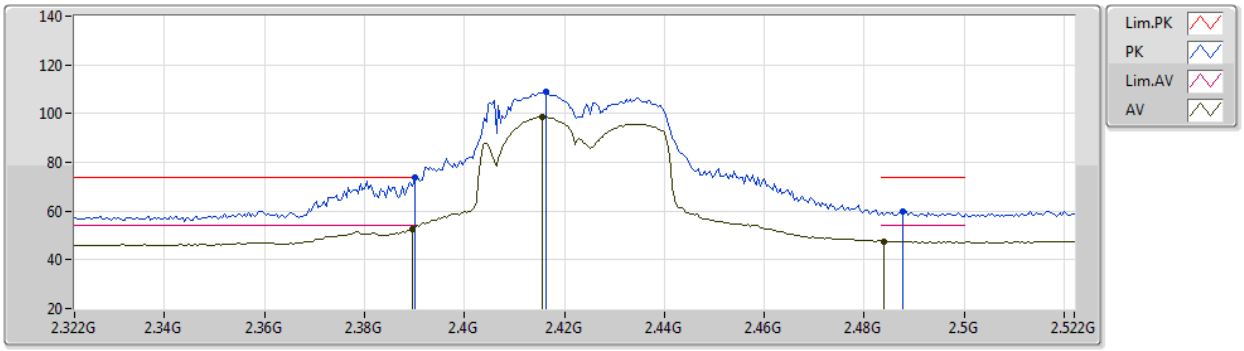
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3868G	68.24	74.00	-5.76	37.57	3	Vertical	180	2.74	-	28.26	2.41	-
AV	2.3864G	48.91	54.00	-5.09	18.24	3	Vertical	180	2.74	-	28.26	2.41	-
PK	2.426G	102.73	Inf	-Inf	71.94	3	Vertical	180	2.74	-	28.38	2.41	-
AV	2.4248G	92.96	Inf	-Inf	62.18	3	Vertical	180	2.74	-	28.37	2.41	-
PK	2.4835G	59.64	74.00	-14.36	28.65	3	Vertical	180	2.74	-	28.55	2.44	-
AV	2.4852G	47.28	54.00	-6.72	16.28	3	Vertical	180	2.74	-	28.56	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

11/11/2020



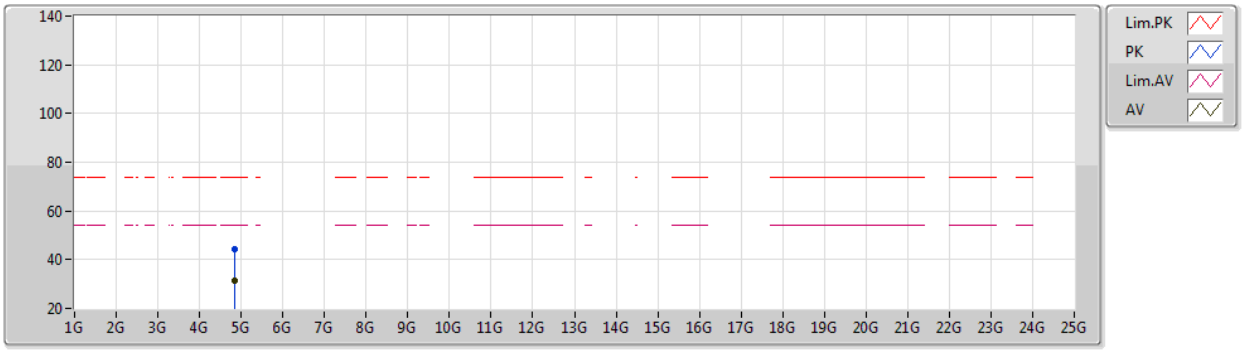
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.39G	73.75	74.00	-0.25	43.07	3	Horizontal	287	2.80	-	28.27	2.41	-
AV	2.3896G	52.77	54.00	-1.23	22.09	3	Horizontal	287	2.80	-	28.27	2.41	-
PK	2.4164G	108.82	Inf	-Inf	78.06	3	Horizontal	287	2.80	-	28.35	2.41	-
AV	2.4156G	98.63	Inf	-Inf	67.87	3	Horizontal	287	2.80	-	28.35	2.41	-
PK	2.4876G	59.98	74.00	-14.02	28.98	3	Horizontal	287	2.80	-	28.56	2.44	-
AV	2.484G	47.64	54.00	-6.36	16.65	3	Horizontal	287	2.80	-	28.55	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

11/11/2020



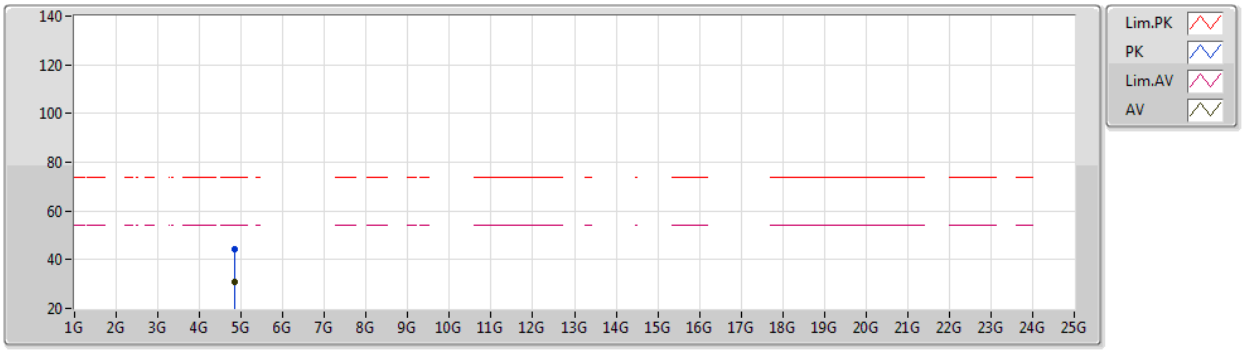
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84344G	44.56	74.00	-29.44	38.68	3	Vertical	230	2.58	-	32.97	4.70	31.79
AV	4.84486G	31.14	54.00	-22.86	25.25	3	Vertical	230	2.58	-	32.98	4.70	31.79

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

11/11/2020



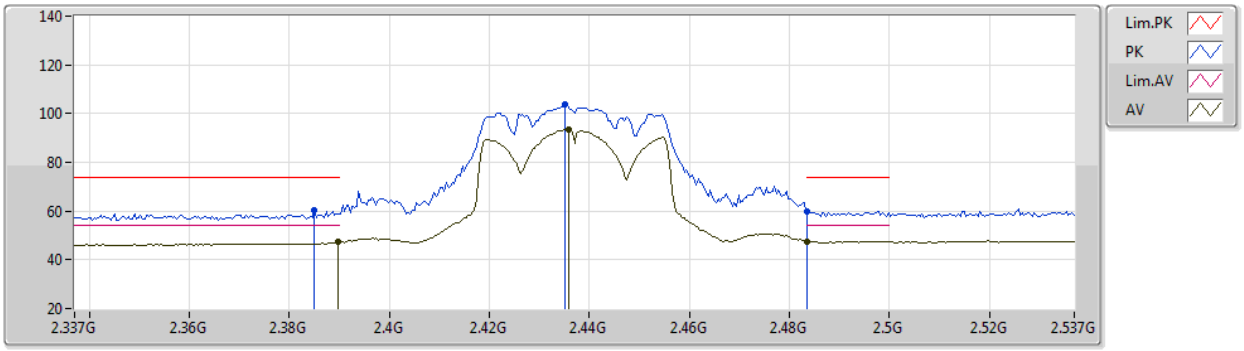
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.84449G	44.20	74.00	-29.80	38.31	3	Horizontal	15	1.32	-	32.98	4.70	31.79
AV	4.84355G	31.06	54.00	-22.94	25.18	3	Horizontal	15	1.32	-	32.97	4.70	31.79

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



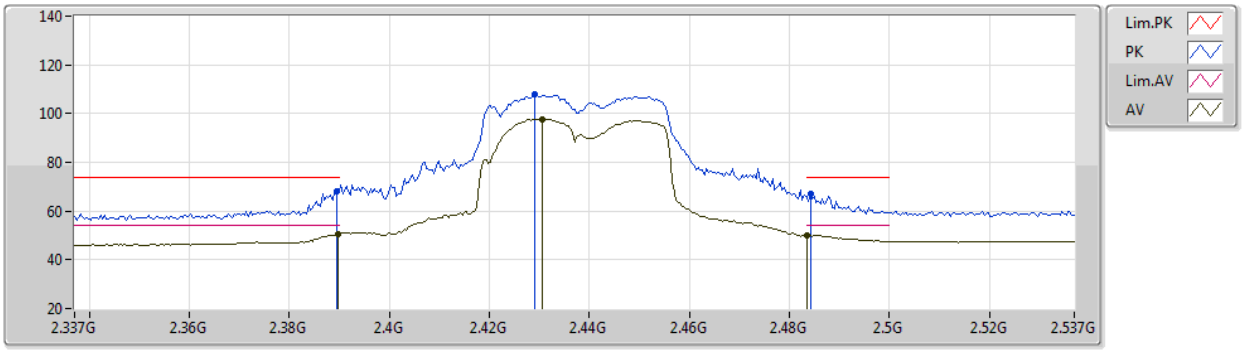
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.385G	60.14	74.00	-13.86	29.47	3	Vertical	193	2.69	-	28.26	2.41	-
AV	2.3898G	47.18	54.00	-6.82	16.50	3	Vertical	193	2.69	-	28.27	2.41	-
PK	2.435G	103.61	Inf	-Inf	72.78	3	Vertical	193	2.69	-	28.41	2.42	-
AV	2.4358G	93.55	Inf	-Inf	62.72	3	Vertical	193	2.69	-	28.41	2.42	-
PK	2.4835G	59.86	74.00	-14.14	28.87	3	Vertical	193	2.69	-	28.55	2.44	-
AV	2.4835G	47.62	54.00	-6.38	16.63	3	Vertical	193	2.69	-	28.55	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



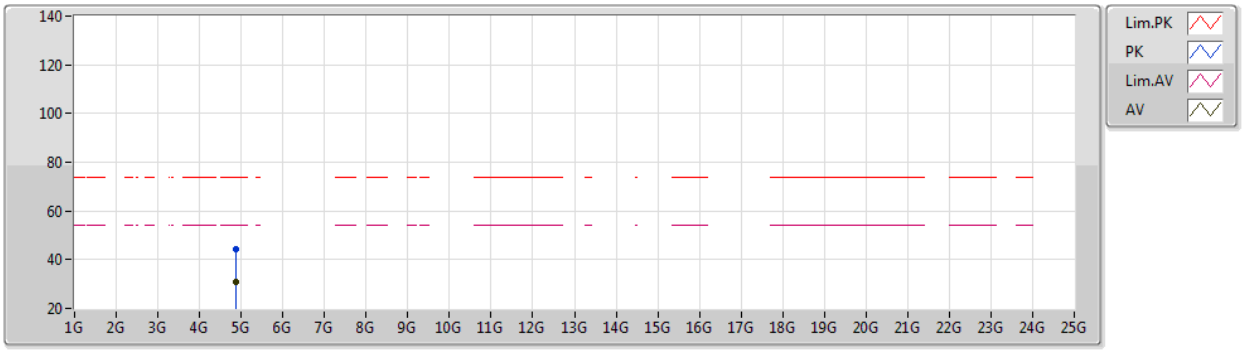
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3894G	68.22	74.00	-5.78	37.54	3	Horizontal	300	2.74	-	28.27	2.41	-
AV	2.3898G	50.50	54.00	-3.50	19.82	3	Horizontal	300	2.74	-	28.27	2.41	-
PK	2.429G	108.03	Inf	-Inf	77.23	3	Horizontal	300	2.74	-	28.39	2.41	-
AV	2.4306G	97.65	Inf	-Inf	66.84	3	Horizontal	300	2.74	-	28.39	2.42	-
PK	2.4842G	66.98	74.00	-7.02	35.99	3	Horizontal	300	2.74	-	28.55	2.44	-
AV	2.4835G	49.98	54.00	-4.02	18.99	3	Horizontal	300	2.74	-	28.55	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



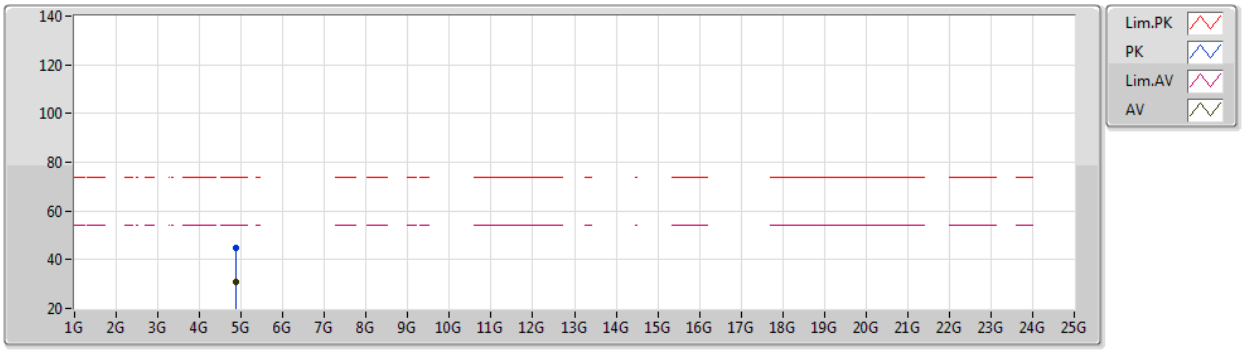
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87482G	44.19	74.00	-29.81	38.19	3	Vertical	144	2.44	-	33.10	4.70	31.80
AV	4.874G	31.12	54.00	-22.88	25.12	3	Vertical	144	2.44	-	33.10	4.70	31.80

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

11/11/2020



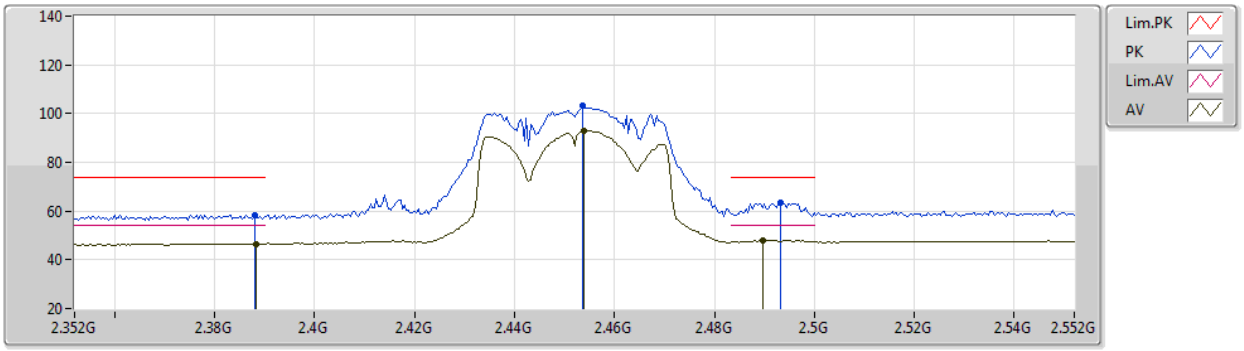
EUT Z_2TX
Setting 14
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87381G	44.84	74.00	-29.16	38.84	3	Horizontal	48	1.54	-	33.10	4.70	31.80
AV	4.87397G	31.09	54.00	-22.91	25.09	3	Horizontal	48	1.54	-	33.10	4.70	31.80

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

11/11/2020



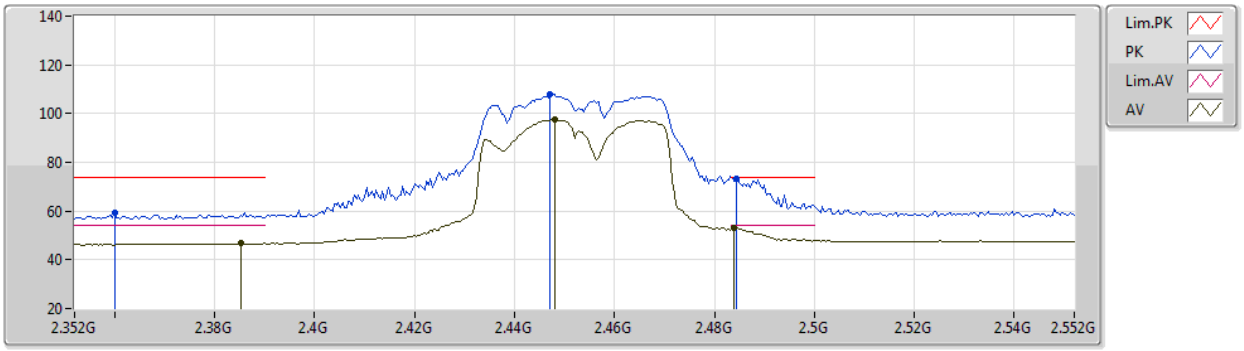
EUT Z_2TX
Setting 13
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.388G	58.52	74.00	-15.48	27.85	3	Vertical	180	1.75	-	28.26	2.41	-
AV	2.3884G	46.59	54.00	-7.41	15.91	3	Vertical	180	1.75	-	28.27	2.41	-
PK	2.4536G	103.12	Inf	-Inf	72.23	3	Vertical	180	1.75	-	28.46	2.43	-
AV	2.454G	92.88	Inf	-Inf	61.99	3	Vertical	180	1.75	-	28.46	2.43	-
PK	2.4932G	63.41	74.00	-10.59	32.38	3	Vertical	180	1.75	-	28.58	2.45	-
AV	2.4896G	47.98	54.00	-6.02	16.97	3	Vertical	180	1.75	-	28.57	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

11/11/2020



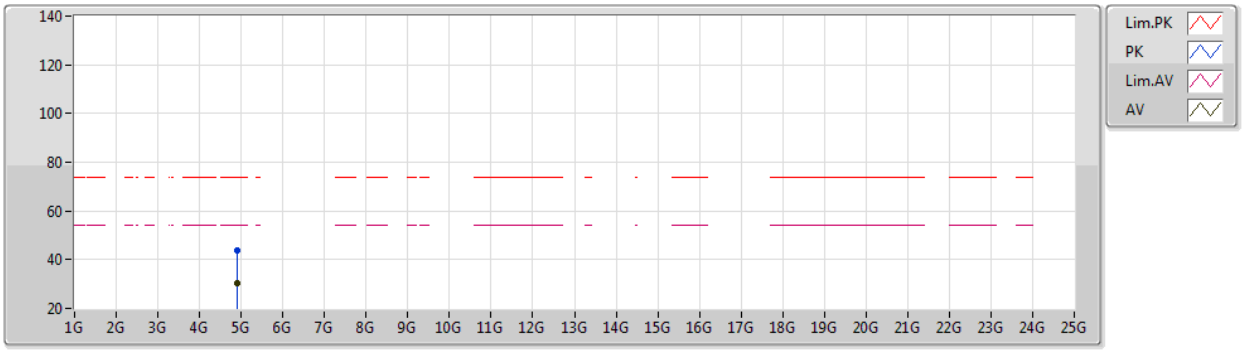
EUT Z_2TX
Setting 13
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.36G	59.22	74.00	-14.78	28.62	3	Horizontal	295	2.98	-	28.18	2.42	-
AV	2.3852G	46.84	54.00	-7.16	16.17	3	Horizontal	295	2.98	-	28.26	2.41	-
PK	2.4472G	108.01	Inf	-Inf	77.15	3	Horizontal	295	2.98	-	28.44	2.42	-
AV	2.448G	97.59	Inf	-Inf	66.73	3	Horizontal	295	2.98	-	28.44	2.42	-
PK	2.4844G	73.50	74.00	-0.50	42.51	3	Horizontal	295	2.98	-	28.55	2.44	-
AV	2.484G	53.01	54.00	-0.99	22.02	3	Horizontal	295	2.98	-	28.55	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

11/11/2020



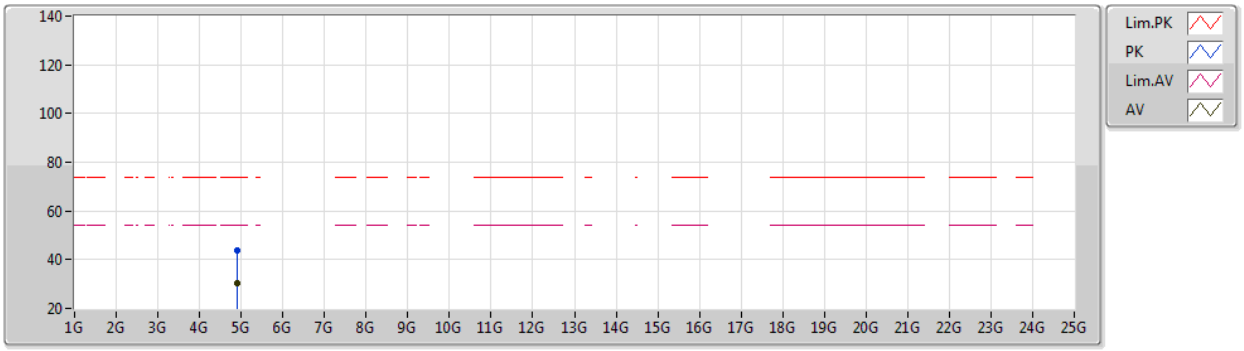
EUT Z_2TX
Setting 13
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90421G	43.72	74.00	-30.28	37.63	3	Vertical	59	2.06	-	33.20	4.70	31.81
AV	4.90405G	30.31	54.00	-23.69	24.22	3	Vertical	59	2.06	-	33.20	4.70	31.81

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

11/11/2020



EUT Z_2TX
Setting 13
02-B-J-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90338G	43.72	74.00	-30.28	37.63	3	Horizontal	176	2.66	-	33.20	4.70	31.81
AV	4.90408G	30.57	54.00	-23.43	24.48	3	Horizontal	176	2.66	-	33.20	4.70	31.81