

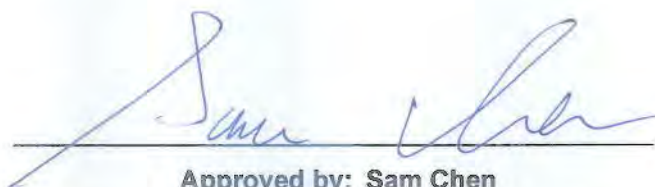


RADIO TEST REPORT

FCC ID : 2AXJ4WPA7617
Equipment : AV1000 Gigabit Powerline ac Wi-Fi Extender
Brand Name : tp-link
Model Name : TL-WPA7517, TL-WPA7617
Applicant : TP-Link Corporation Limited
Room 901, 9/F. , New East Ocean Centre, 9 Science
Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Room 901, 9/F. , New East Ocean Centre, 9 Science
Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 29, 2021, and testing was started from Feb. 04, 2021 and completed on Mar. 22, 2021. We, Sporton International Inc. Hsinchu 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	8
2 Test Configuration of EUT.....	9
2.1 Test Channel Mode	9
2.2 The Worst Case Measurement Configuration.....	10
2.3 EUT Operation during Test	11
2.4 Accessories	11
2.5 Support Equipment.....	11
2.6 Test Setup Diagram	12
3 Transmitter Test Result	14
3.1 AC Power-line Conducted Emissions	14
3.2 DTS Bandwidth	16
3.3 Maximum Conducted Output Power	17
3.4 Power Spectral Density	20
3.5 Emissions in Non-restricted Frequency Bands	22
3.6 Emissions in Restricted Frequency Bands.....	23
4 Test Equipment and Calibration Data	27
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3



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: Sandy Chuang

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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

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	Gain (dBi)	
	2.4GHz	5GHz					2.4GHz	5GHz
1	1	2	TP-LINK	Antenna -7517	PCB	N/A	1	1
2	2	1	TP-LINK	Antenna -7517	PCB	N/A	1	1

Note: The above information was declared by manufacturer.

For 2.4GHz WLAN function

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 5GHz WLAN function

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) $\geq 1/T$
802.11b	0.99	0.04	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	0.943	0.25	3.113m	1k
802.11n HT20	0.914	0.39	2.893m	1k
802.11n HT40	0.88	0.56	1.414m	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	DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Model Name	Description
TL-WPA7517	All the models are identical; different models serve as marketing strategy.
TL-WPA7617	

Note 1: From the above models, model: TL-WPA7517 was selected as representative model for the test and its data was recorded in this report.

Note 2: 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 15.247
- ♦ 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 Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Li	23.5-24.1 / 56-59	Mar. 03, 2021~ Mar. 11, 2021
Radiated <Above 1GHz>	03CH02-CB	RJ Huang	20.4-21.4 / 55-57	Mar. 04, 2021~ Mar. 22, 2021
Radiated <Below 1GHz and Co-location>	03CH06-CB	RJ Huang	21.1-22.5 / 55-57	Mar. 04, 2021~ Mar. 22, 2021
AC Conduction	CO01-CB	Ryo Fan	21~22 / 60~61	Feb. 04, 2021

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	28/25
2417MHz	38/35
2437MHz	50/47
2457MHz	35/32
2462MHz	31/28
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15/11
2417MHz	27/25
2437MHz	50/44
2457MHz	31/28
2462MHz	16/13
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	22/20
2417MHz	38/36
2437MHz	50/48
2457MHz	50/48
2462MHz	20/18
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	15/13
2427MHz	18/16
2437MHz	24/22
2447MHz	19/17
2452MHz	18/16

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT PLC is Idle mode (without data transmit)

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 can be placed in Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz
2	EUT in Z axis + WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position. The worst case was found at Z axis, thus the measurement will follow this same test configuration.	



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
The EUT can be placed in Y axis and Z axis. EUT Z axis has been evaluated to be the worst case at Emissions in Emissions in Restricted Frequency Bands <Above 1GHz> ; thus, the measurement will follow this same test configuration.	
1	EUT in Z axis + WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

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.: FA110401 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

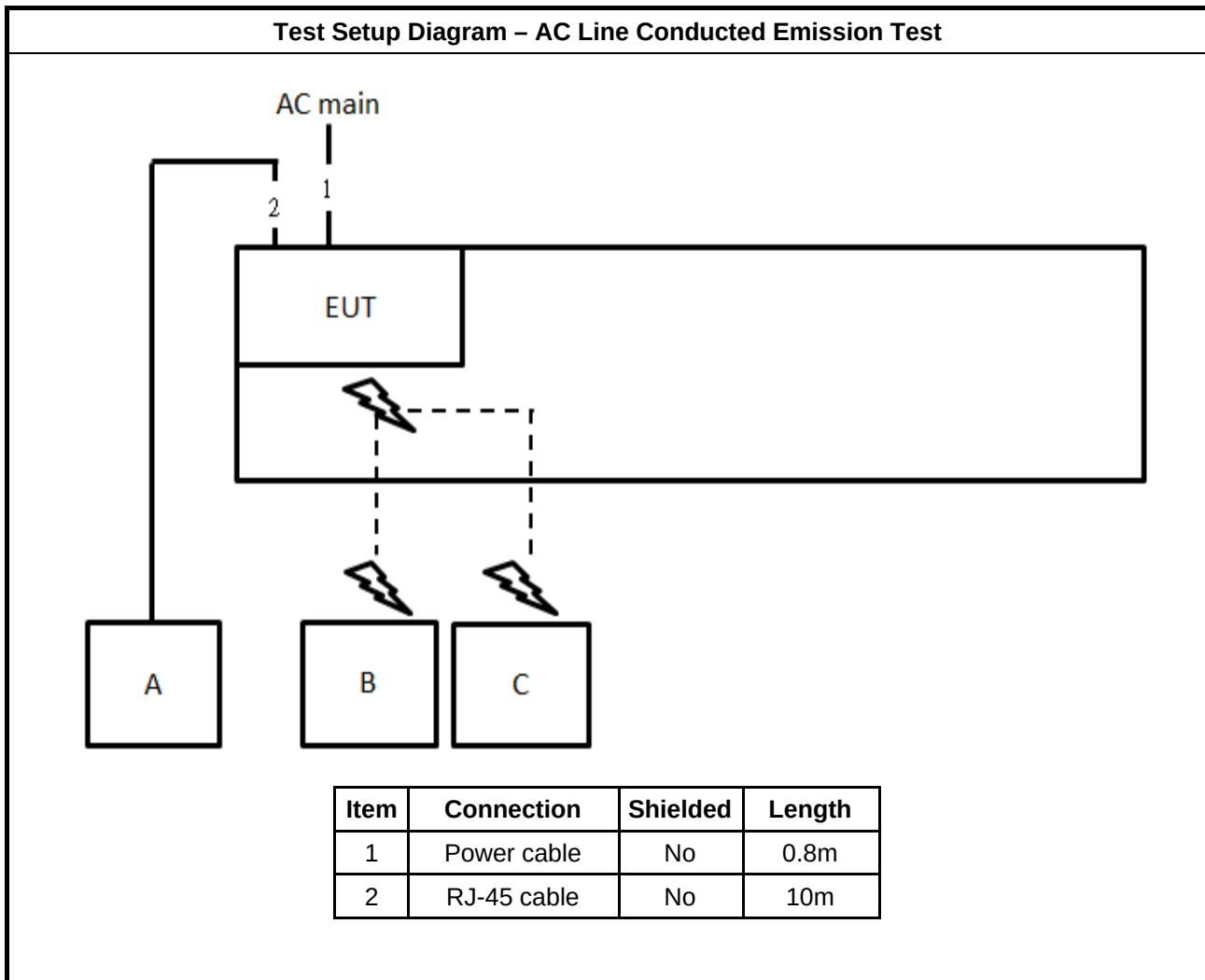
For AC Conduction:

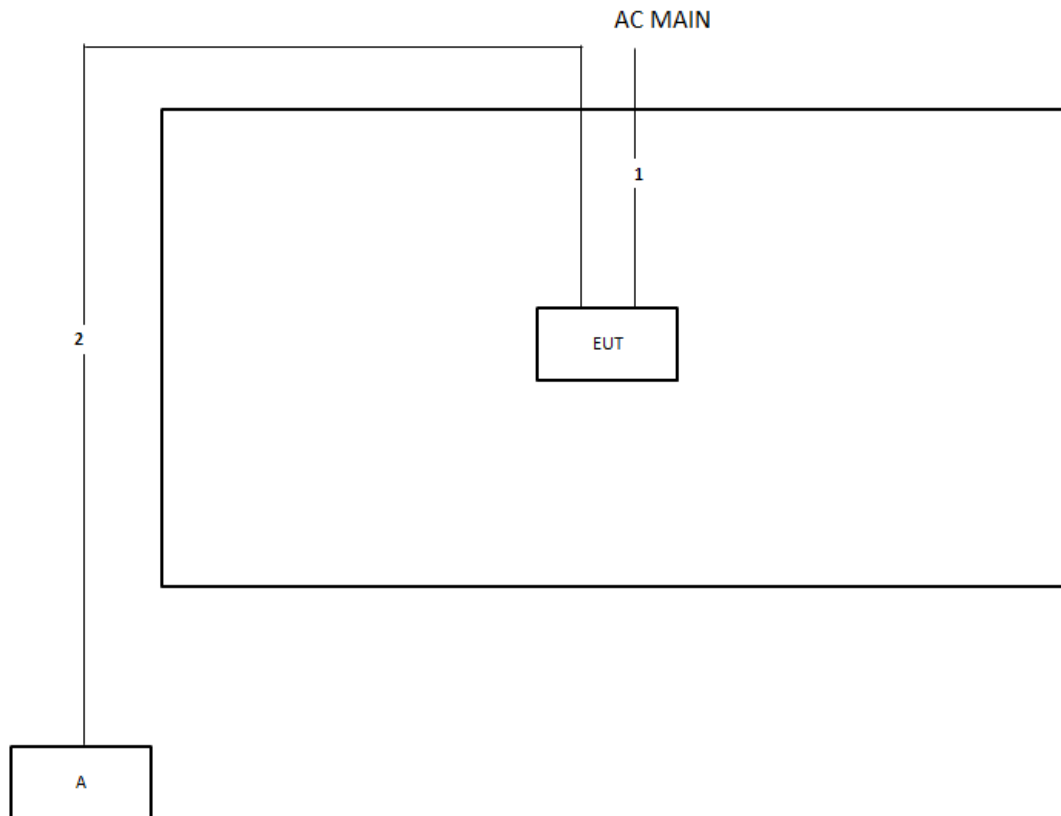
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN NB	DELL	E6430	N/A
B	2.4G NB	DELL	E6430	N/A
C	5G NB	DELL	E6430	N/A

For Radiated and RF Conducted:

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

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	Power cable	No	1.8m
2	RJ-45 cable	No	10m



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.

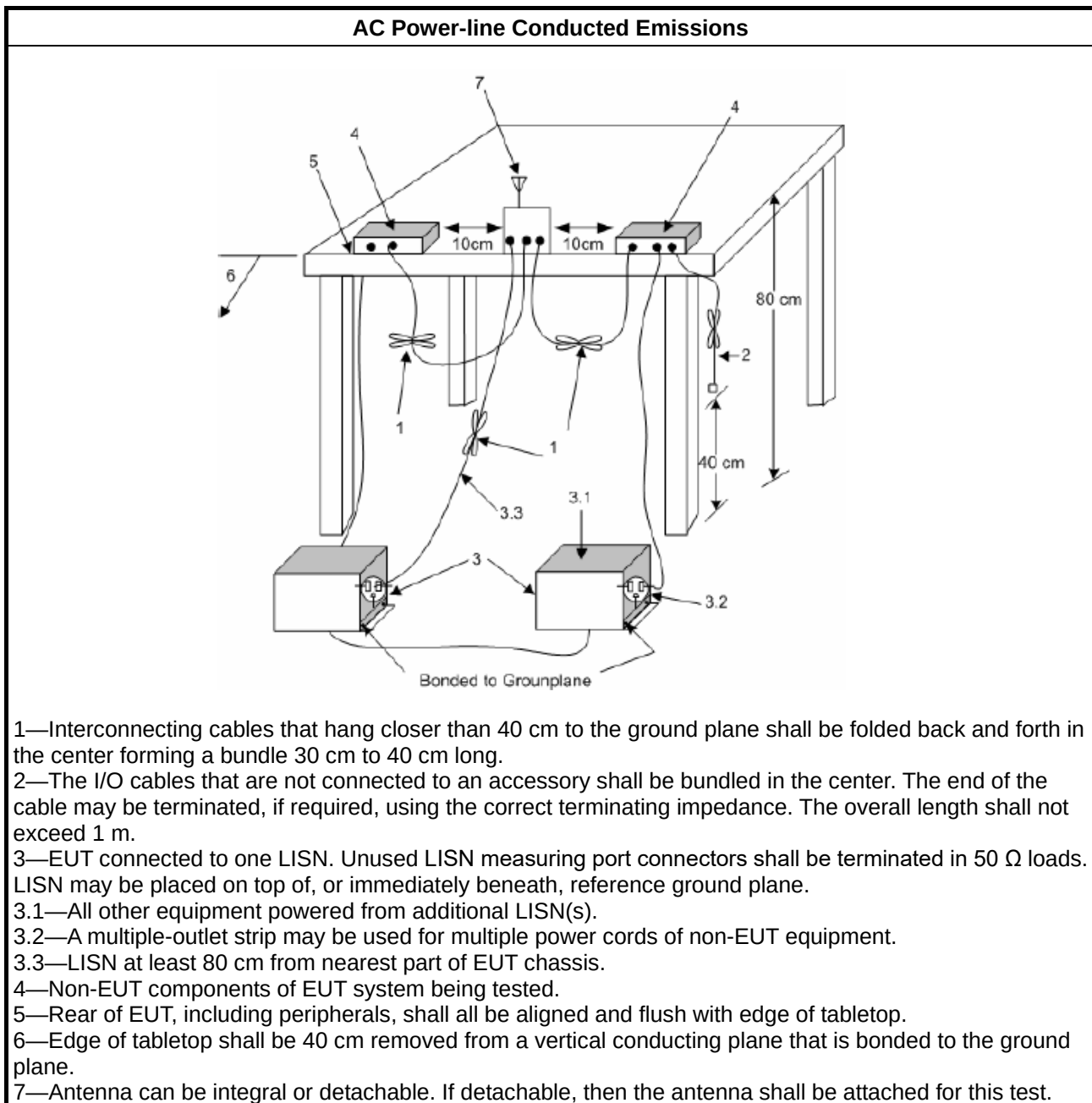
3.1.2 Measuring Instruments

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



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- 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 $\geq$ 500 kHz.

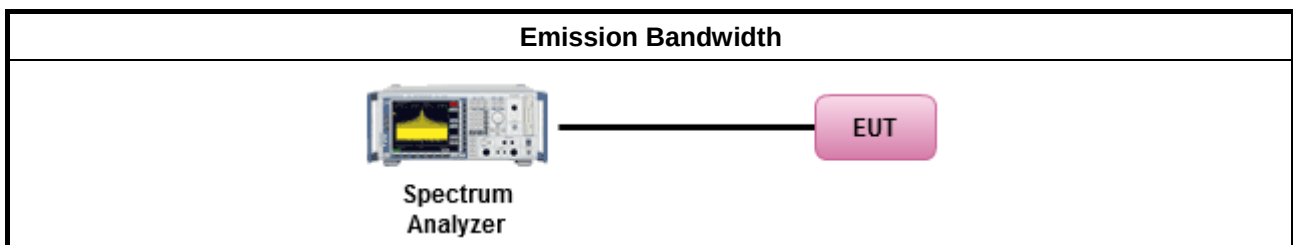
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
For the emission bandwidth shall be measured using one of the options below:
☒ Refer as 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



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.	

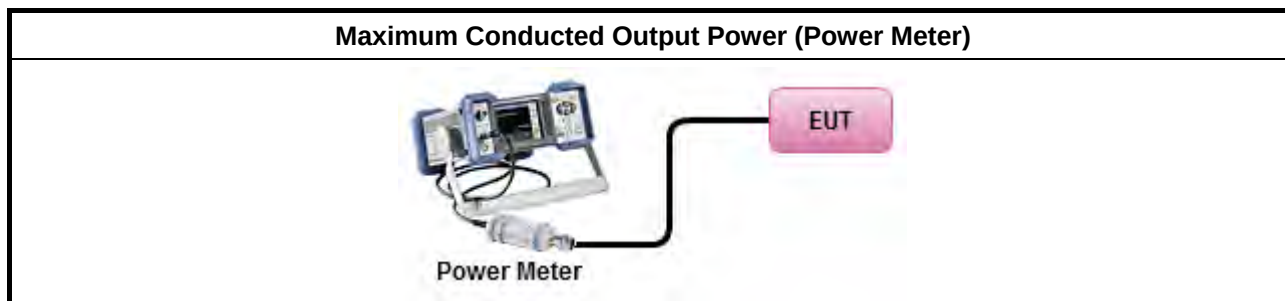
3.3.2 Measuring Instruments

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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

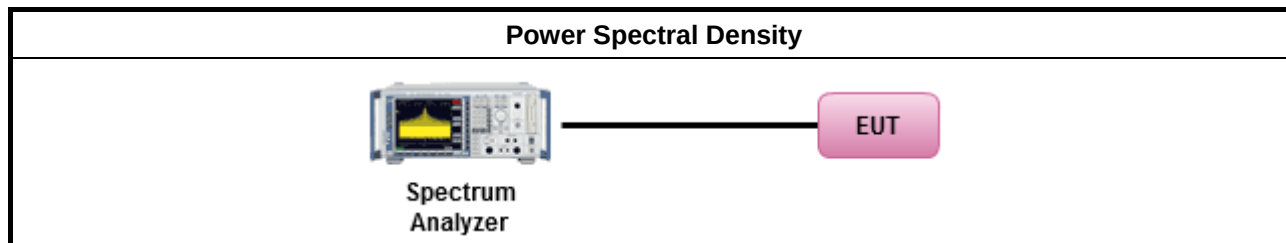
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as 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



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.	

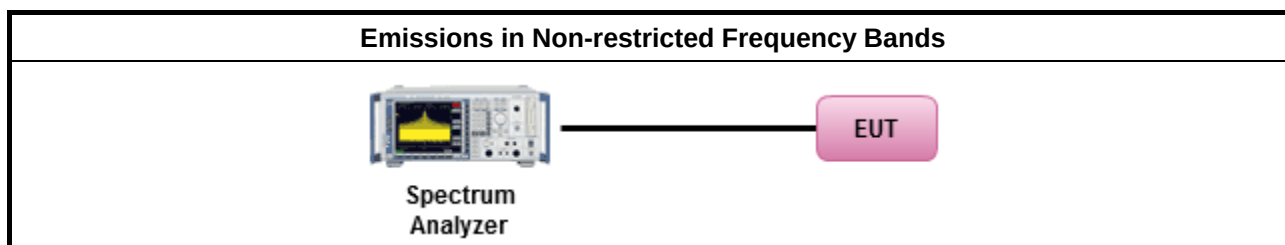
3.5.2 Measuring Instruments

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



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

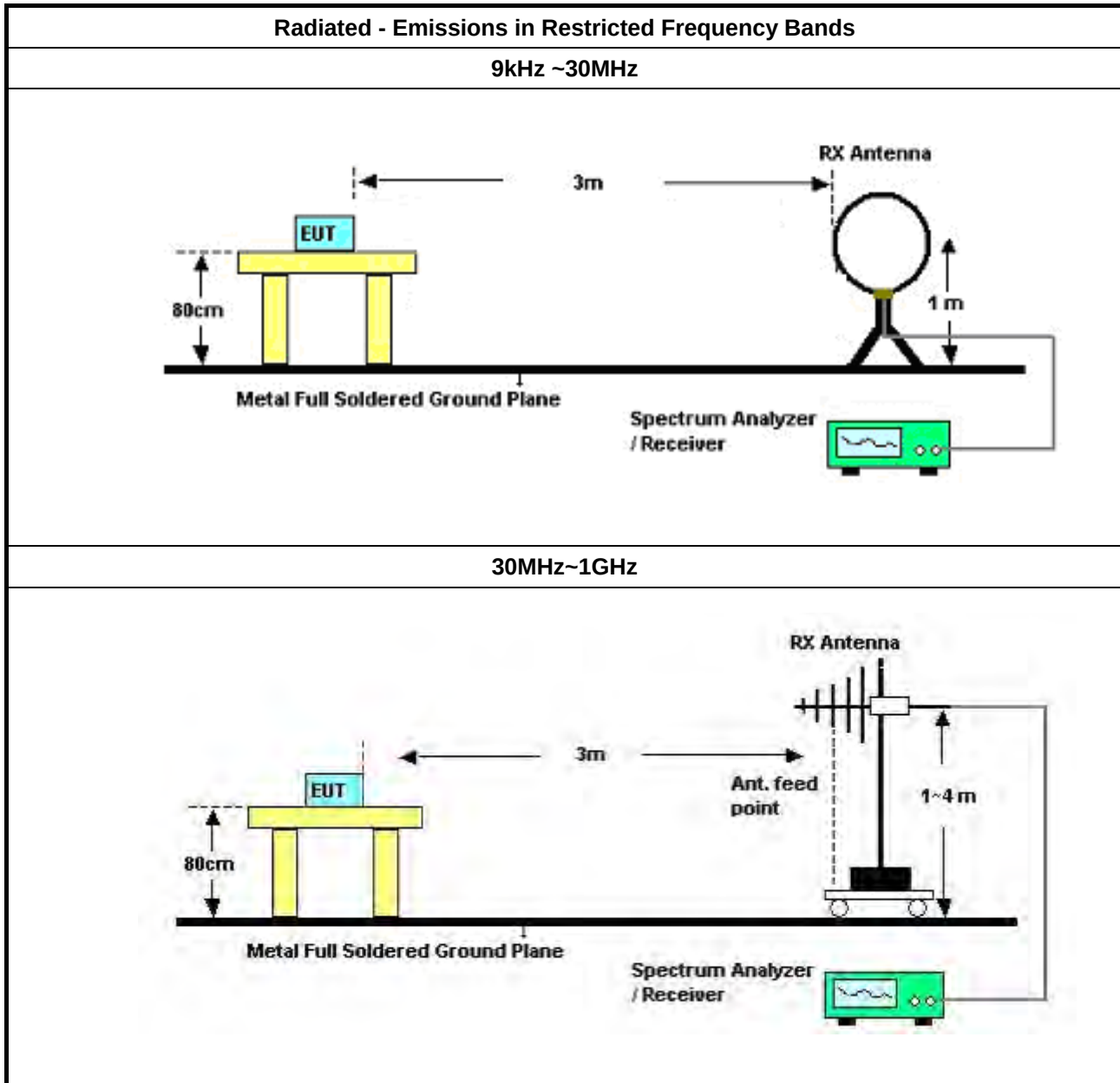
Refer a test equipment and calibration data table in this test report.

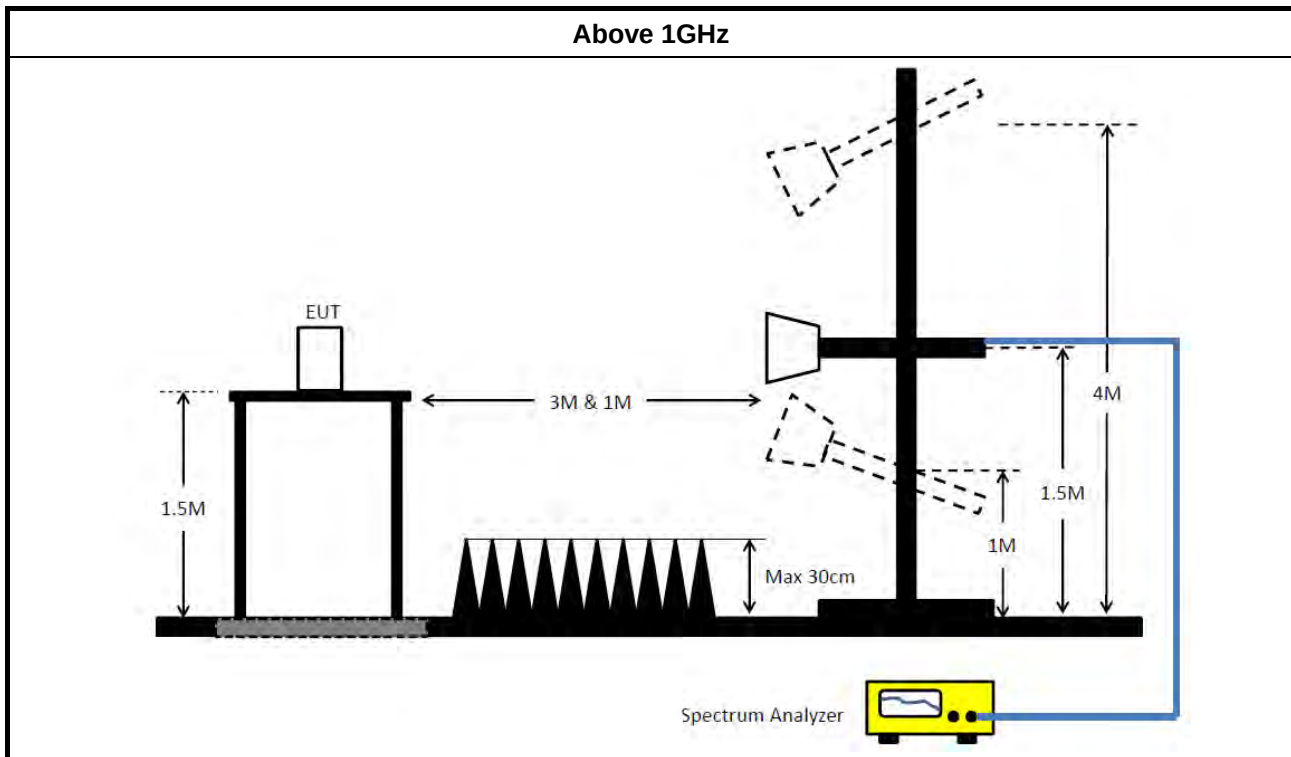


3.6.3 Test Procedures

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 $\geq 98\%$).
☐	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 $\geq 1/T$).
☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, 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





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	Jan. 06, 2021	Jan. 05, 2022	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. 30, 2021	Jan. 29, 2022	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)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 28, 2020	Mar. 27, 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-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH02-CB)
Signal analyzer	Agilent	N9010A	MY52220519	10kHz~44GHz	Mar. 24, 2020	Mar. 23, 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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH06-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH06-CB	1GHz ~18GHz 3m	Oct. 02, 2020	Oct. 01, 2021	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMC	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 02, 2020	Aug. 01, 2021	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1292	1GHz~18GHz	Jul. 22, 2020	Jul. 21, 2021	Radiation (03CH06-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	83017A	MY53270064	0.5GHz ~ 26.5GHz	May 07, 2020	May 06, 2021	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Dec. 15, 2020	Dec. 14, 2021	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-05+24	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 05, 2020	May 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz – 26.5 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH01-CB)
Power Sensor	Anritsu	MA2411B	1339408	300MHz~40GHz	Sep. 02, 2020	Sep. 01, 2021	Conducted (TH01-CB)
Power Meter	Anritsu	ML2495A	1517009	300MHz~40GHz	Sep. 02, 2020	Sep. 01, 2021	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



Conducted Emissions at Powerline

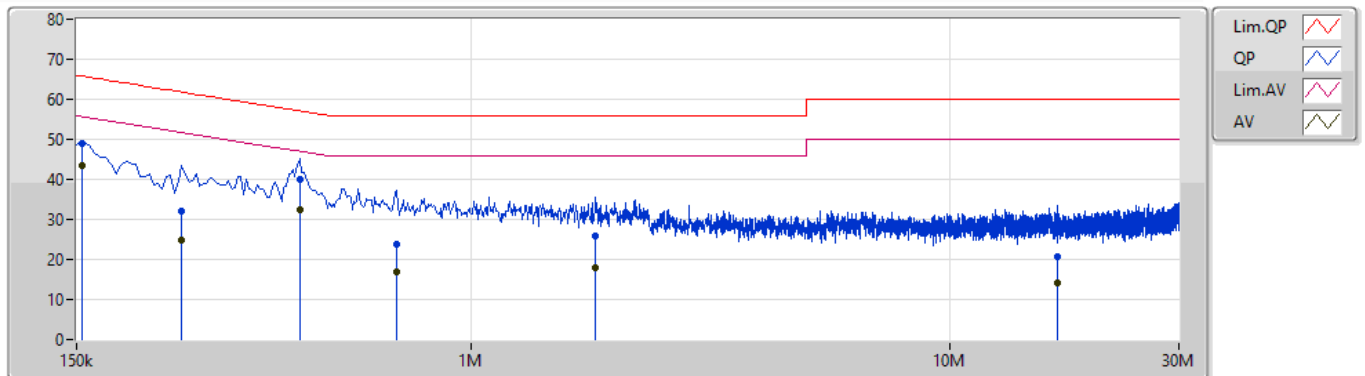
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	154.5k	43.36	55.75	-12.39	Line

Mode 1

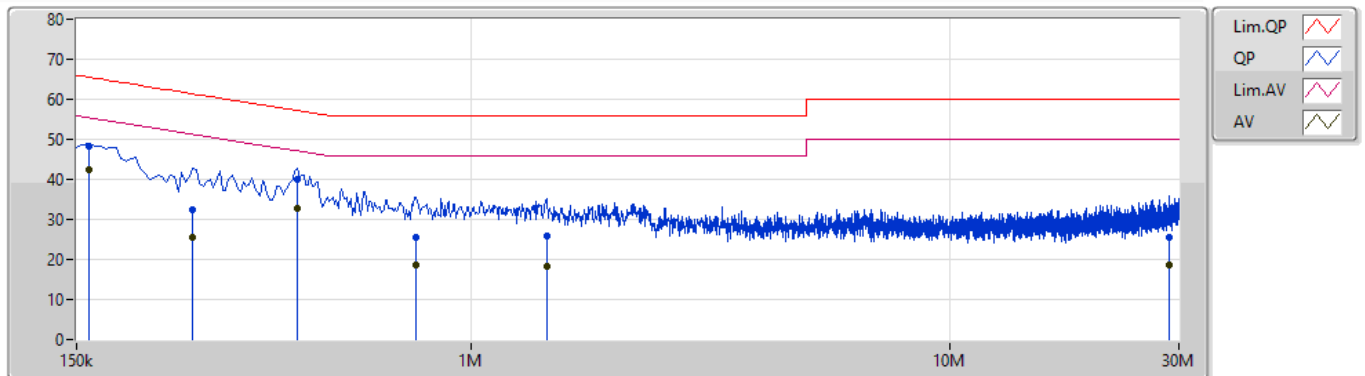
04/02/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	154.5k	48.99	65.75	-16.76	9.89	Line	-	39.10	0.05	0.03	9.81			
AV	154.5k	43.36	55.75	-12.39	9.89	Line	"Worst"	33.47	0.05	0.03	9.81			
QP	249k	32.14	61.79	-29.65	9.88	Line	-	22.26	0.04	0.03	9.81			
AV	249k	24.72	51.79	-27.07	9.88	Line	-	14.84	0.04	0.03	9.81			
QP	438k	40.06	57.11	-17.05	9.89	Line	-	30.17	0.04	0.03	9.82			
AV	438k	32.50	47.11	-14.61	9.89	Line	-	22.61	0.04	0.03	9.82			
QP	699k	23.70	56.00	-32.30	9.92	Line	-	13.78	0.05	0.04	9.83			
AV	699k	16.86	46.00	-29.14	9.92	Line	-	6.94	0.05	0.04	9.83			
QP	1.82M	25.80	56.00	-30.20	9.95	Line	-	15.85	0.06	0.07	9.82			
AV	1.82M	18.00	46.00	-28.00	9.95	Line	-	8.05	0.06	0.07	9.82			
QP	16.706M	20.74	60.00	-39.26	10.43	Line	-	10.31	0.22	0.27	9.94			
AV	16.706M	14.05	50.00	-35.95	10.43	Line	-	3.62	0.22	0.27	9.94			

Mode 1

04/02/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	159k	48.16	65.52	-17.36	9.88	Neutral	-	38.28	0.04	0.03	9.81			
AV	159k	42.25	55.52	-13.27	9.88	Neutral	"Worst"	32.37	0.04	0.03	9.81			
QP	262.5k	32.46	61.35	-28.89	9.88	Neutral	-	22.58	0.04	0.03	9.81			
AV	262.5k	25.48	51.35	-25.87	9.88	Neutral	-	15.60	0.04	0.03	9.81			
QP	433.5k	40.16	57.19	-17.03	9.89	Neutral	-	30.27	0.04	0.03	9.82			
AV	433.5k	32.71	47.19	-14.48	9.89	Neutral	-	22.82	0.04	0.03	9.82			
QP	766.5k	25.61	56.00	-30.39	9.92	Neutral	-	15.69	0.05	0.04	9.83			
AV	766.5k	18.47	46.00	-27.53	9.92	Neutral	-	8.55	0.05	0.04	9.83			
QP	1.442M	25.73	56.00	-30.27	9.95	Neutral	-	15.78	0.07	0.06	9.82			
AV	1.442M	18.16	46.00	-27.84	9.95	Neutral	-	8.21	0.07	0.06	9.82			
QP	28.631M	25.58	60.00	-34.42	10.65	Neutral	-	14.93	0.32	0.31	10.02			
AV	28.631M	18.71	50.00	-31.29	10.65	Neutral	-	8.06	0.32	0.31	10.02			

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	10.075M	14.718M	14M7D2W	10.05M	12.769M
802.11g_Nss1,(6Mbps)_2TX	16.35M	26.162M	26M2D7W	16.325M	16.767M
802.11n HT20_Nss1,(MCS0)_2TX	17.525M	17.841M	17M8D7W	17.05M	17.666M
802.11n HT40_Nss1,(MCS0)_2TX	36.35M	36.782M	36M8D7W	36.25M	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;

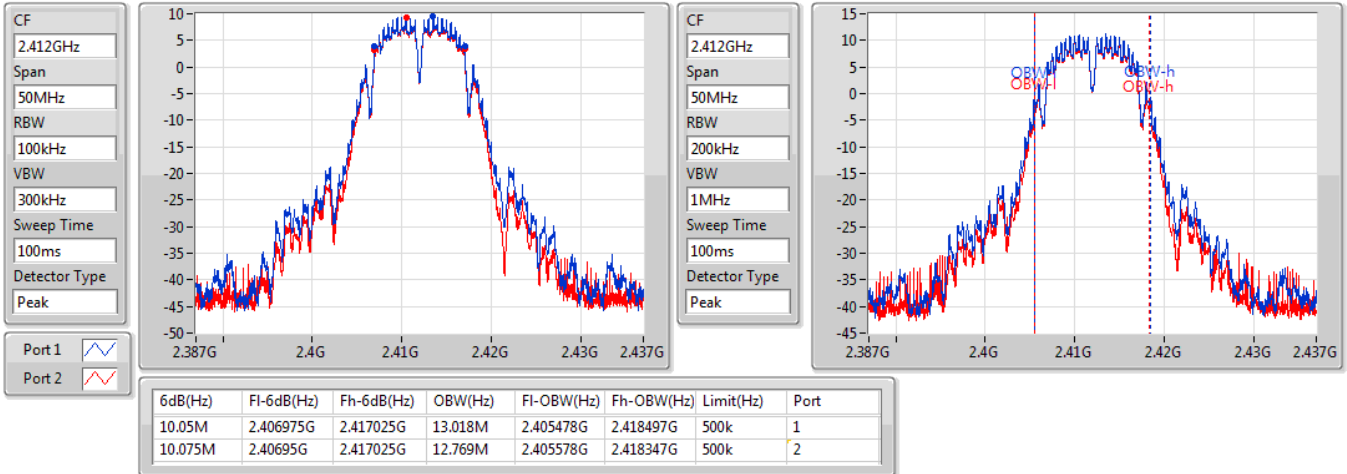
Result

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	10.05M	13.018M	10.075M	12.769M
2437MHz	Pass	500k	10.075M	14.093M	10.075M	14.718M
2462MHz	Pass	500k	10.05M	13.068M	10.05M	12.944M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.35M	16.792M	16.35M	16.767M
2437MHz	Pass	500k	16.325M	25.312M	16.325M	26.162M
2462MHz	Pass	500k	16.35M	16.792M	16.35M	16.767M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.525M	17.691M	17.5M	17.666M
2437MHz	Pass	500k	17.275M	17.841M	17.1M	17.791M
2462MHz	Pass	500k	17.05M	17.666M	17.075M	17.666M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.3M	36.582M	36.35M	36.632M
2437MHz	Pass	500k	36.35M	36.682M	36.3M	36.782M
2452MHz	Pass	500k	36.25M	36.682M	36.35M	36.632M

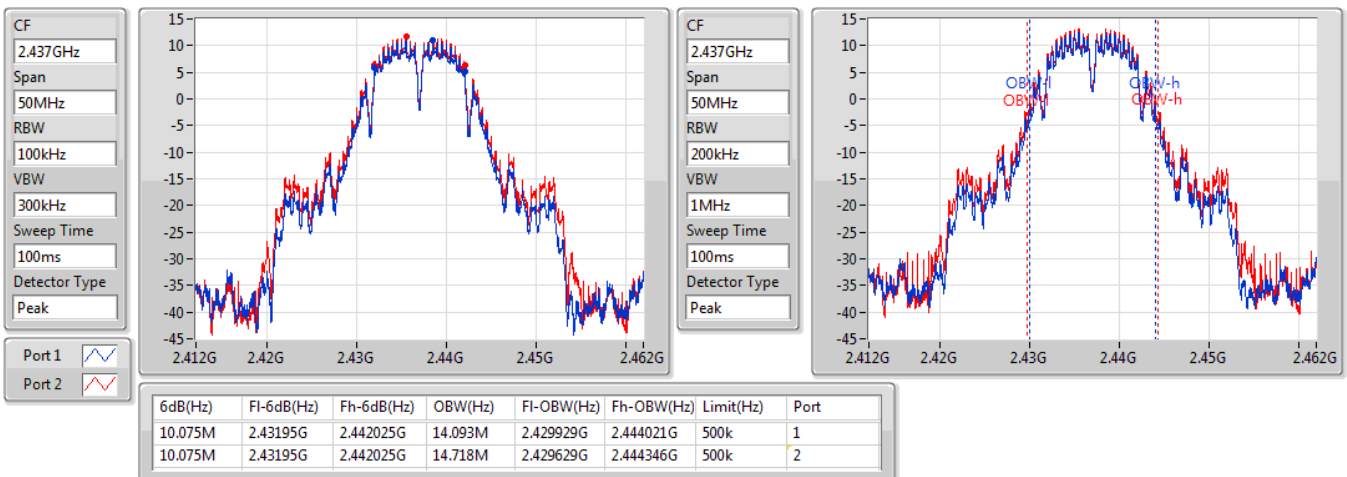
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

11/03/2021

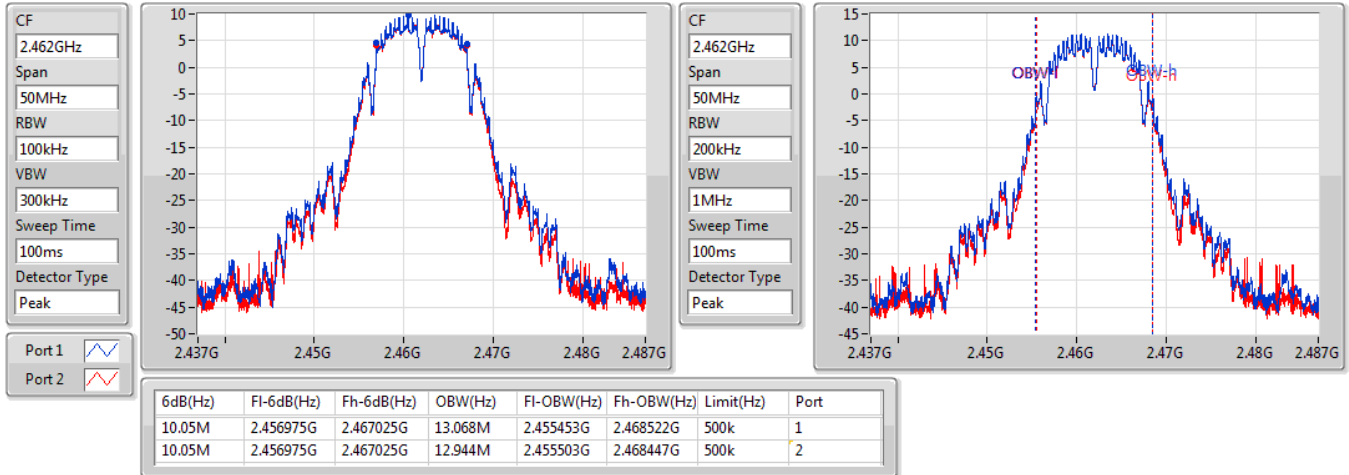

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

11/03/2021

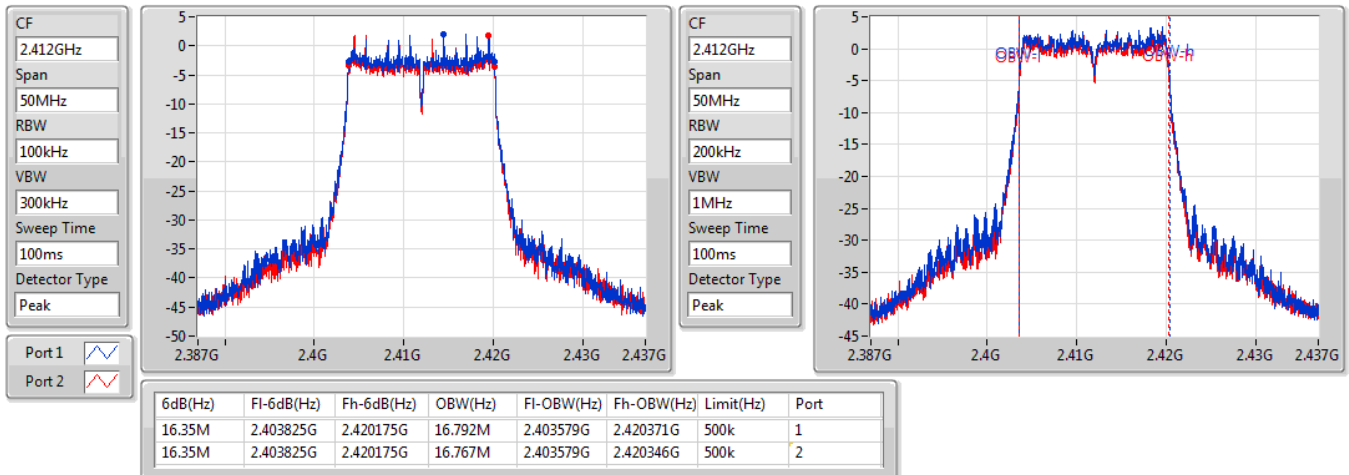


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

11/03/2021

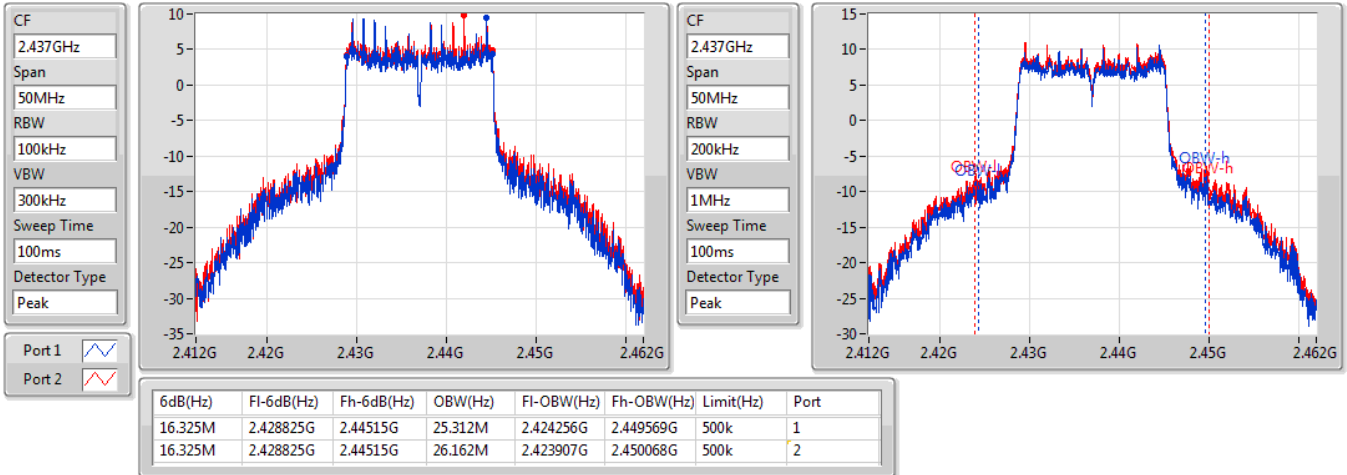

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

11/03/2021

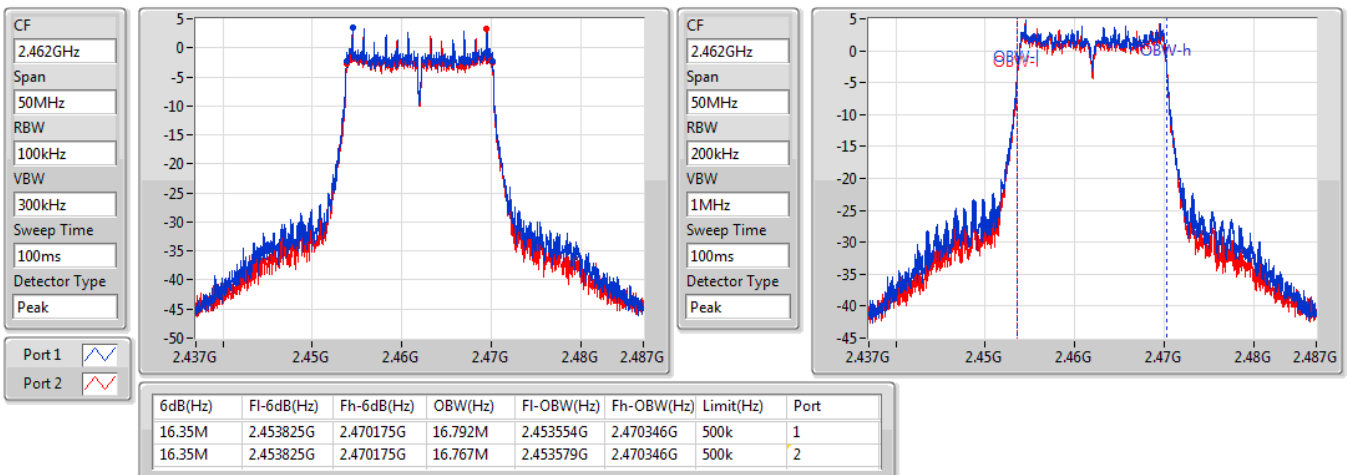


802.11g_Nss1,(6Mbps)_2TX
2437MHz

11/03/2021

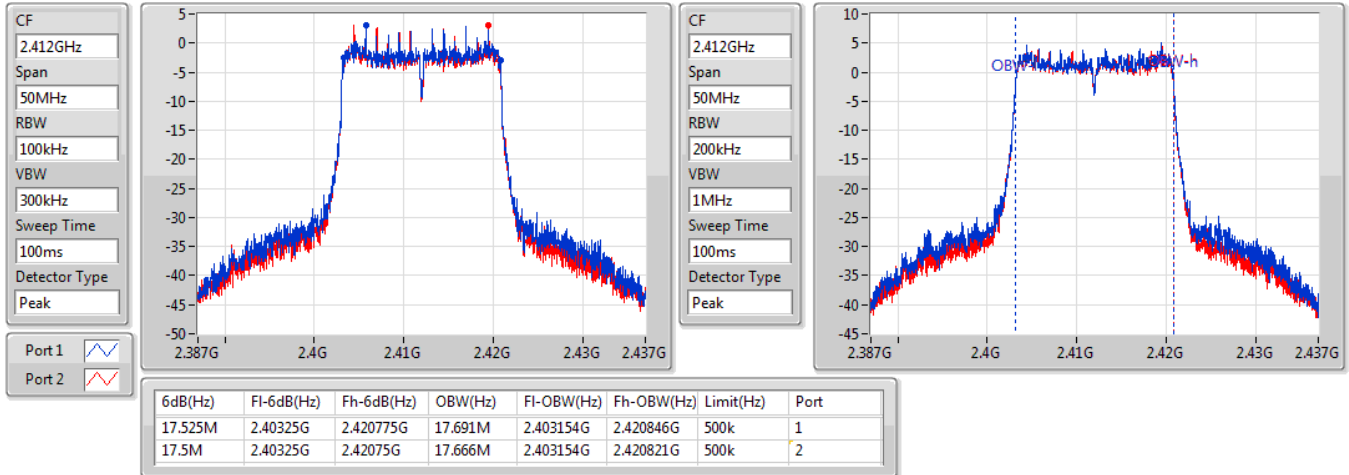

802.11g_Nss1,(6Mbps)_2TX
2462MHz

11/03/2021

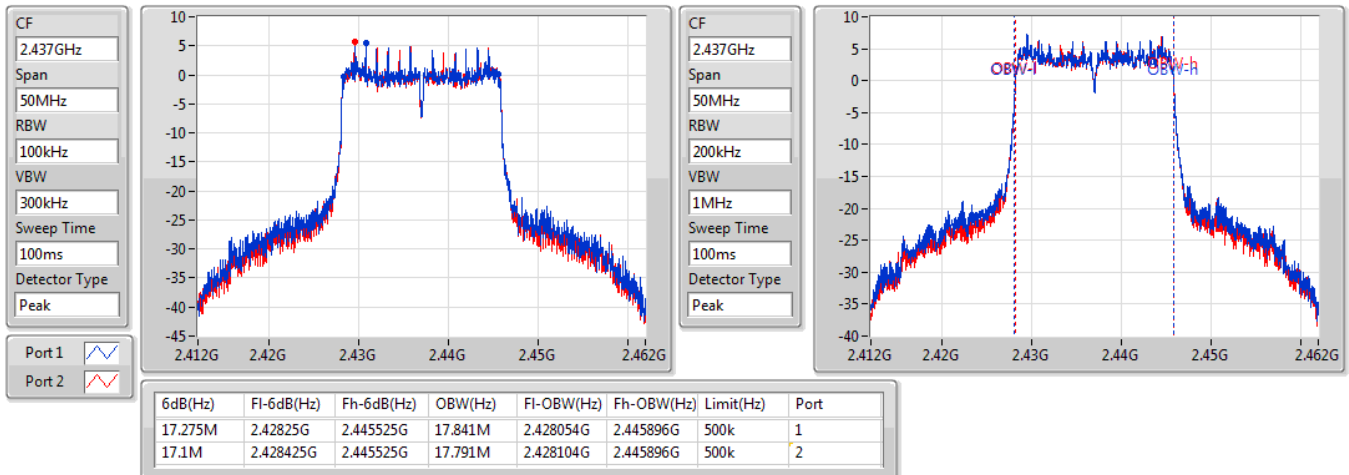


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

11/03/2021

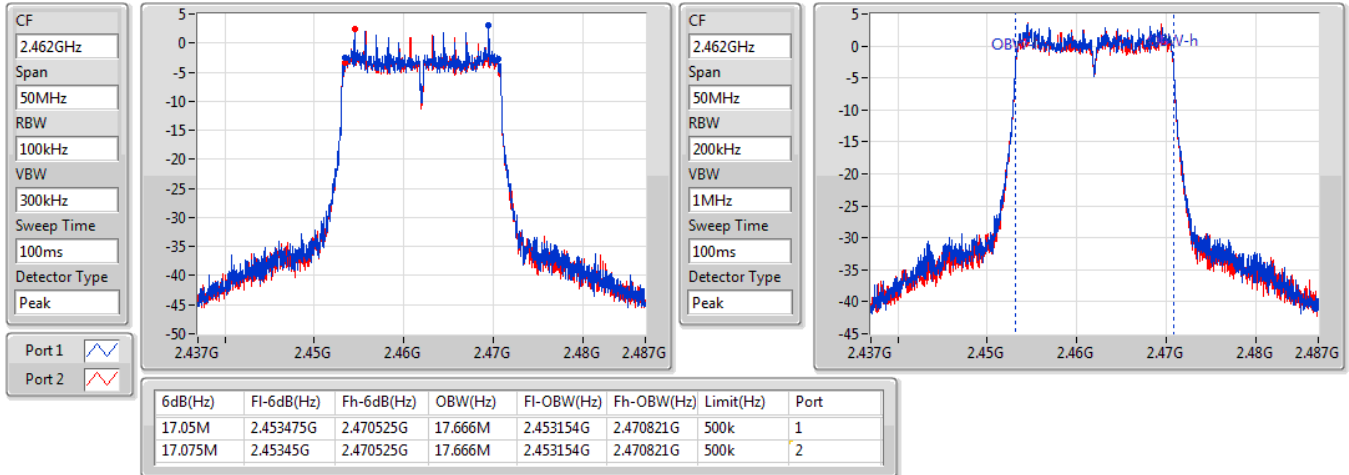

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

11/03/2021

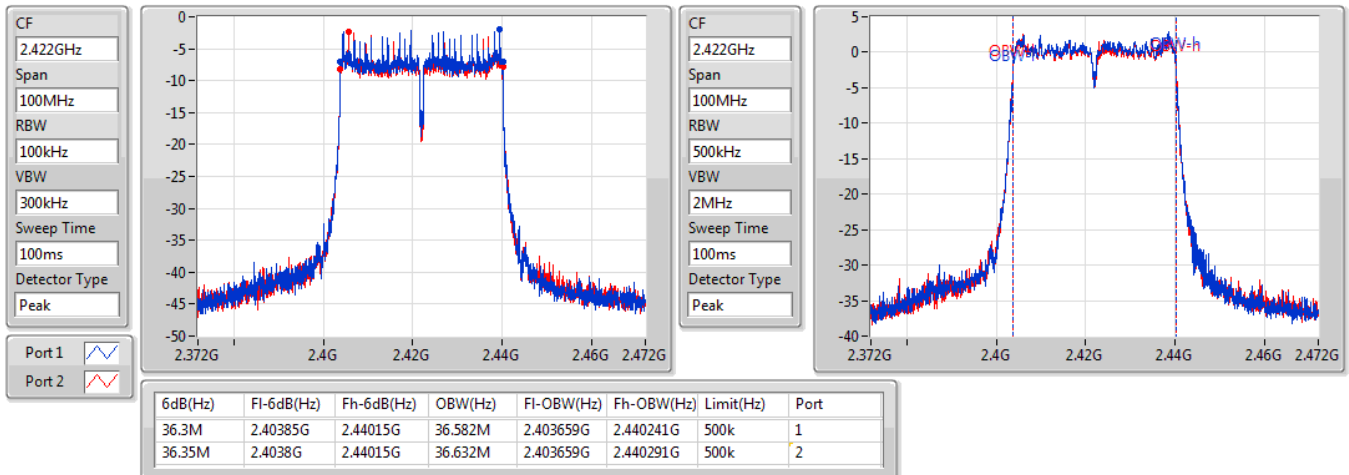


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

11/03/2021

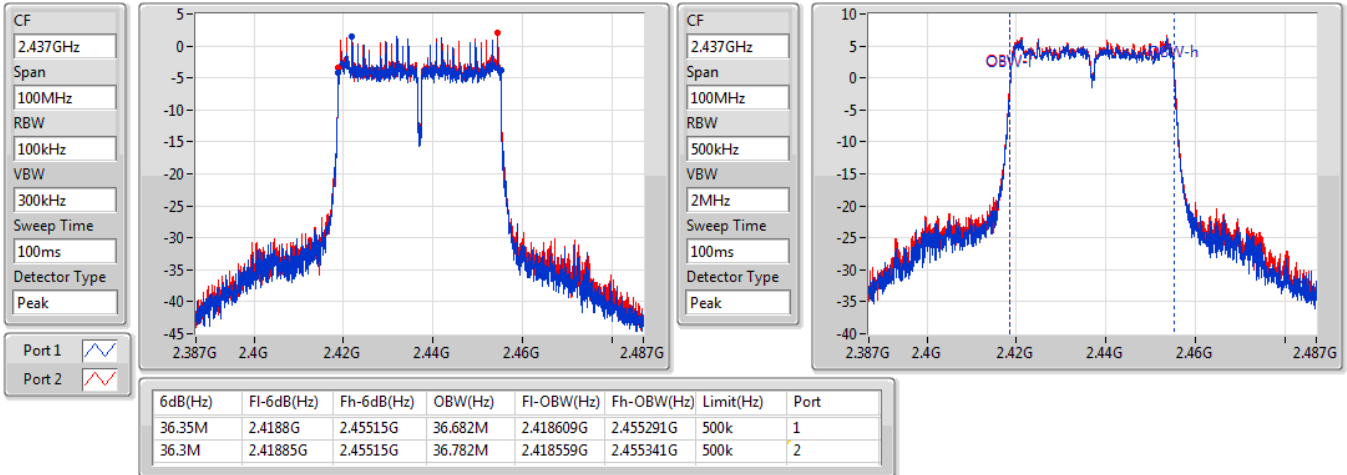

802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

11/03/2021

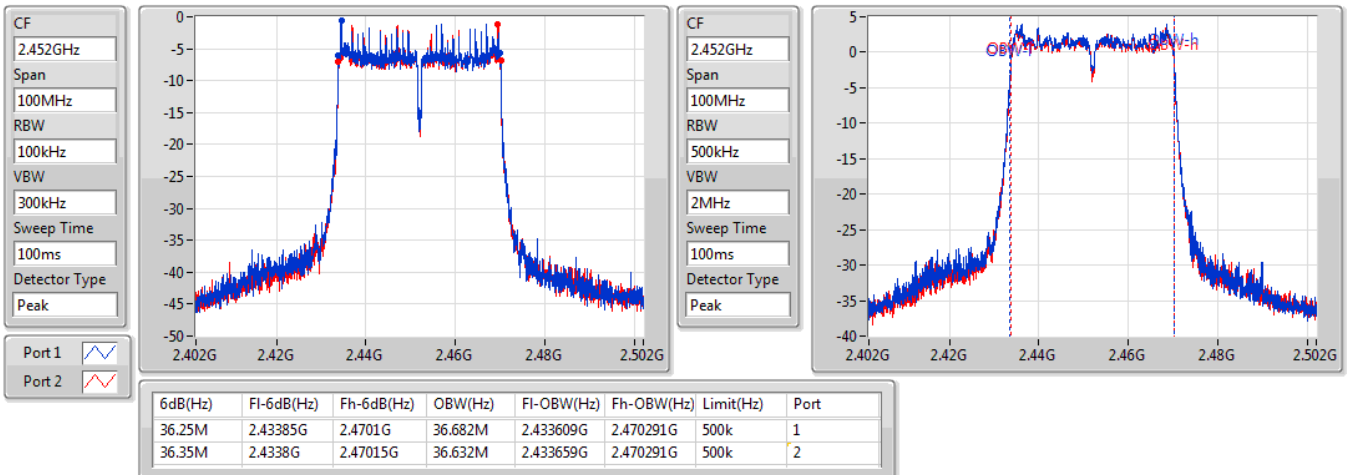


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

11/03/2021


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz

11/03/2021





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.56	0.28576
802.11g_Nss1,(6Mbps)_2TX	23.08	0.20324
802.11n HT20_Nss1,(MCS0)_2TX	20.68	0.11695
802.11n HT40_Nss1,(MCS0)_2TX	18.52	0.07112

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.00	19.78	19.43	22.62	30.00
2417MHz	Pass	1.00	20.35	20.92	23.65	30.00
2437MHz	Pass	1.00	21.18	21.89	24.56	30.00
2457MHz	Pass	1.00	20.22	20.06	23.15	30.00
2462MHz	Pass	1.00	19.83	19.79	22.82	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.00	14.21	13.95	17.09	30.00
2417MHz	Pass	1.00	18.19	18.14	21.18	30.00
2437MHz	Pass	1.00	19.85	20.28	23.08	30.00
2457MHz	Pass	1.00	18.31	18.50	21.42	30.00
2462MHz	Pass	1.00	14.25	13.75	17.02	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	1.00	14.14	13.92	17.04	30.00
2417MHz	Pass	1.00	17.31	17.88	20.61	30.00
2437MHz	Pass	1.00	17.42	17.91	20.68	30.00
2457MHz	Pass	1.00	17.15	17.62	20.40	30.00
2462MHz	Pass	1.00	13.21	13.04	16.14	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	1.00	11.91	11.68	14.81	30.00
2427MHz	Pass	1.00	12.92	12.64	15.79	30.00
2437MHz	Pass	1.00	15.34	15.67	18.52	30.00
2447MHz	Pass	1.00	13.13	12.97	16.06	30.00
2452MHz	Pass	1.00	12.83	12.62	15.74	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	-5.70
802.11g_Nss1,(6Mbps)_2TX	-5.30
802.11n HT20_Nss1,(MCS0)_2TX	-7.56
802.11n HT40_Nss1,(MCS0)_2TX	-12.04

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	4.01	-10.21	-10.15	-7.65	8.00
2437MHz	Pass	4.01	-7.86	-9.37	-5.70	8.00
2462MHz	Pass	4.01	-11.18	-10.22	-7.78	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.01	-13.98	-13.40	-11.38	8.00
2437MHz	Pass	4.01	-8.35	-7.84	-5.30	8.00
2462MHz	Pass	4.01	-11.82	-14.37	-10.07	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.01	-13.30	-13.20	-10.89	8.00
2437MHz	Pass	4.01	-10.34	-10.36	-7.56	8.00
2462MHz	Pass	4.01	-13.67	-15.03	-12.52	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.01	-18.70	-18.58	-15.84	8.00
2437MHz	Pass	4.01	-14.35	-13.96	-12.04	8.00
2452MHz	Pass	4.01	-16.62	-16.92	-14.69	8.00

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

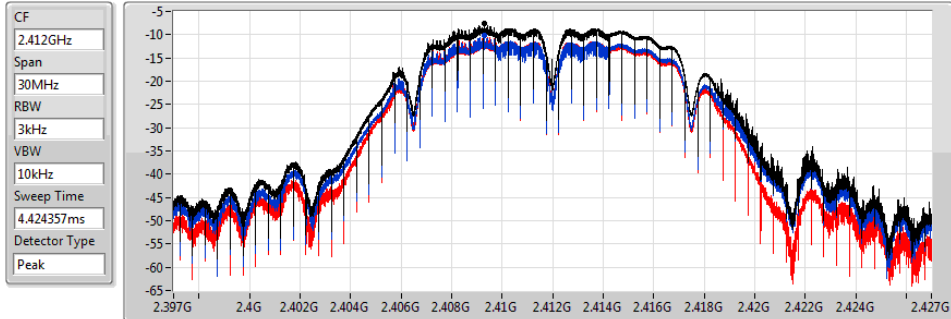
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

11/03/2021



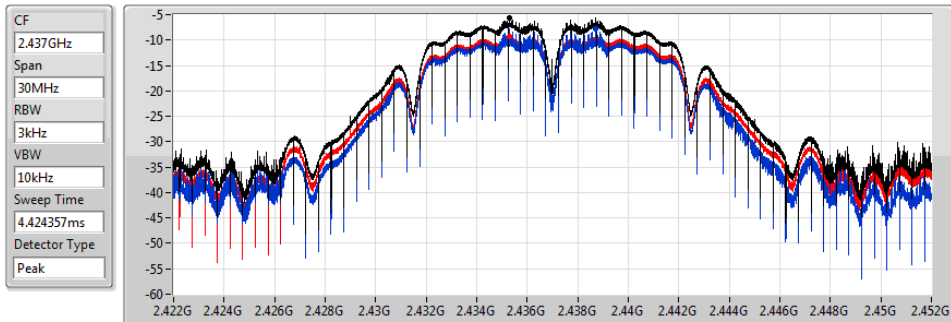
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.65	-7.65	-10.21	-10.15

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

11/03/2021



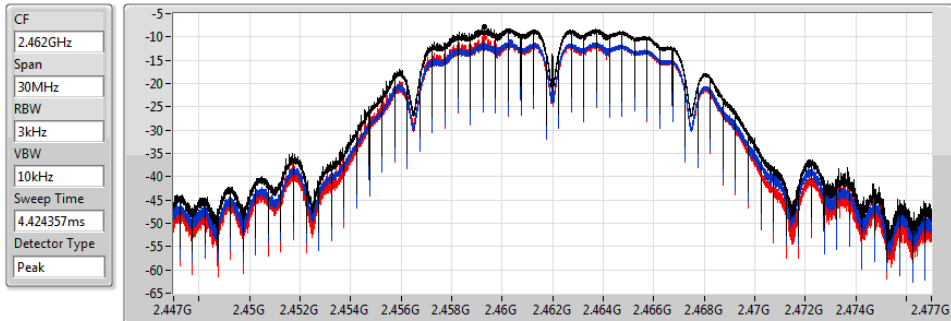
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.70	-5.70	-7.86	-9.37

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

11/03/2021



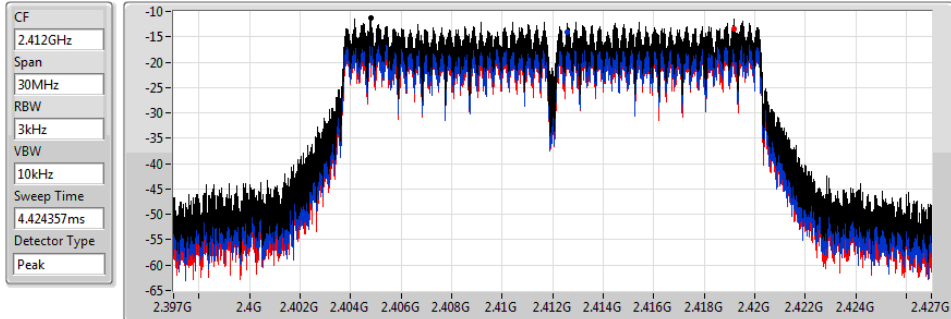
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.78	-7.78	-11.18	-10.22

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

17/03/2021



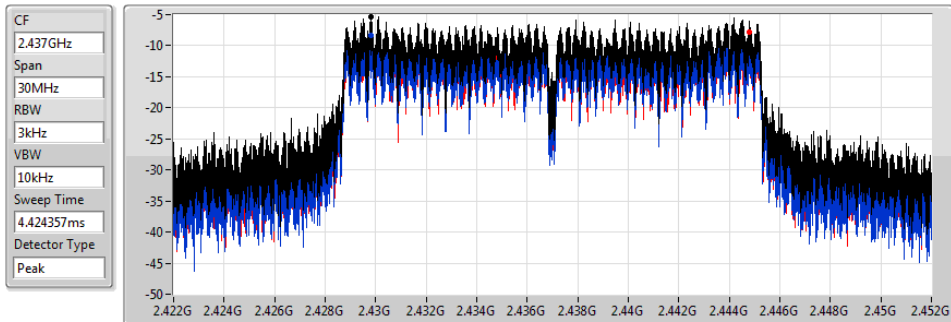
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.38	-11.38	-13.98	-13.40

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

11/03/2021



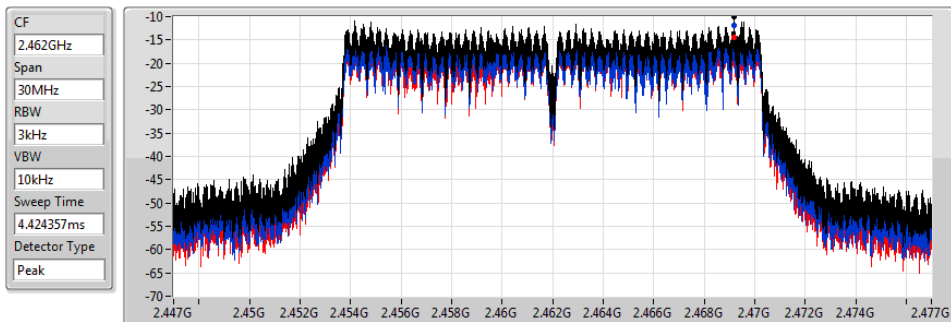
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.30	-5.30	-8.35	-7.84

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

11/03/2021



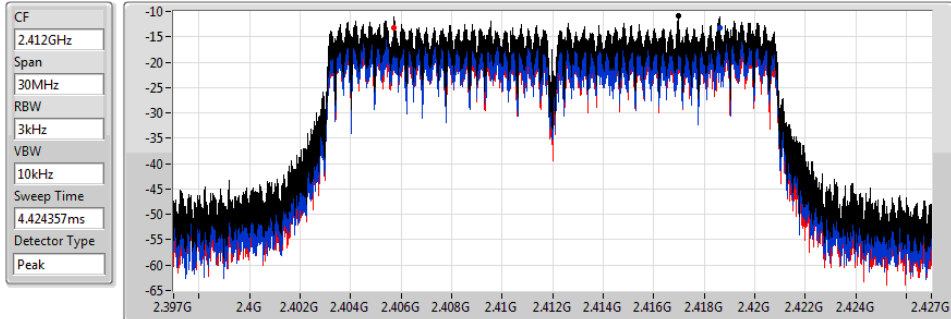
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.07	-10.07	-11.82	-14.37

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

11/03/2021



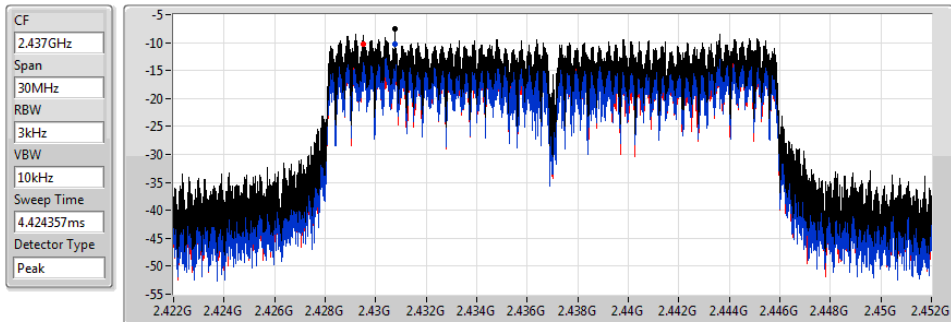
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-10.89	-10.89	-13.30	-13.20

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

11/03/2021



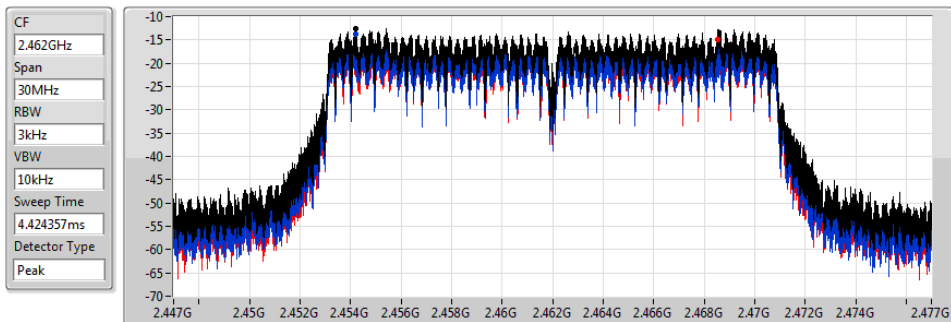
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.56	-7.56	-10.34	-10.36

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

11/03/2021



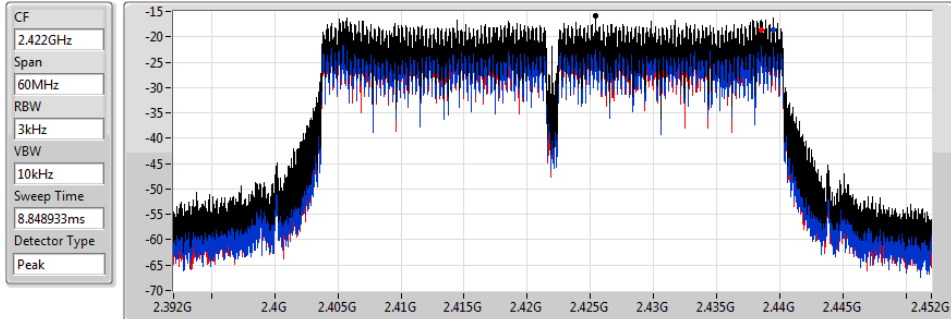
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-12.52	-12.52	-13.67	-15.03

802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

11/03/2021



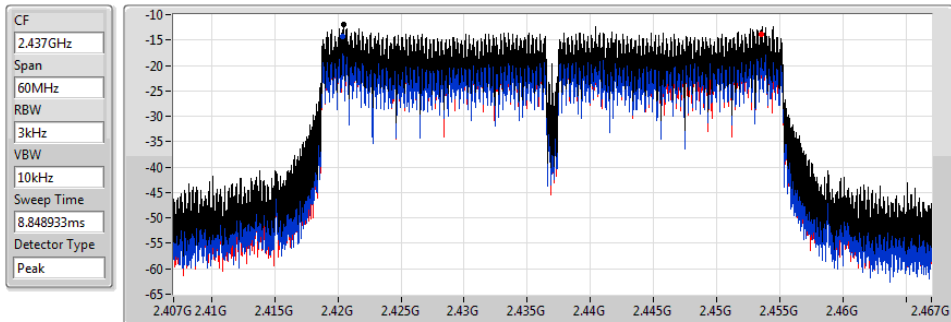
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-15.84	-15.84	-18.70	-18.58

802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

11/03/2021



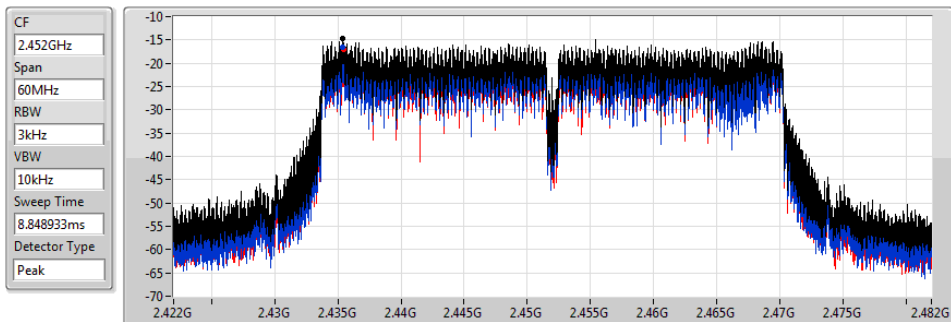
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-12.04	-12.04	-14.35	-13.96

802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

11/03/2021



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-14.69	-14.69	-16.62	-16.92

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	2.43549G	11.65	-18.35	2.30204G	-51.15	2.399G	-24.82	2.4G	-26.63	2.50612G	-49.14	24.12342G	-45.90	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44446G	9.76	-20.24	2.30117G	-51.46	2.39986G	-30.98	2.4G	-31.72	2.48972G	-49.67	23.45193G	-46.16	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.42952G	5.71	-24.29	951.52M	-50.49	2.39854G	-29.52	2.4G	-32.00	2.49848G	-49.71	24.45494G	-46.10	1
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.42071G	2.37	-27.63	2.30655G	-52.43	2.39952G	-29.25	2.4G	-36.71	2.48446G	-42.02	3.24781G	-44.12	2

Result

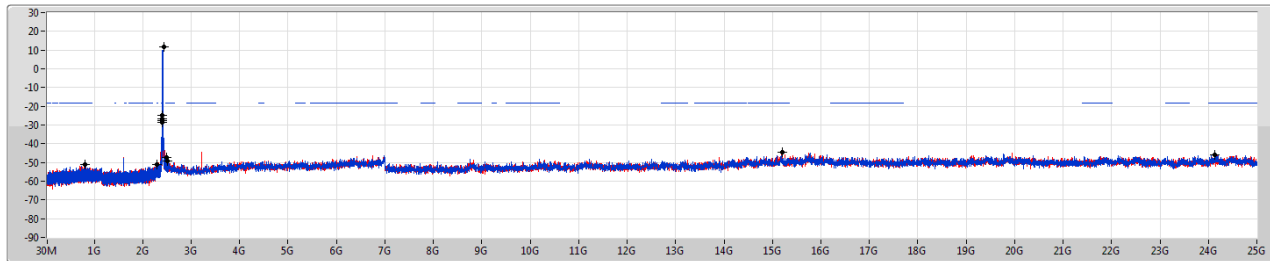
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1.(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43549G	11.65	-18.35	2.30204G	-51.15	2.399G	-24.82	2.4G	-26.63	2.50612G	-49.14	24.12342G	-45.90	1
2412MHz	Pass	2.43549G	11.65	-18.35	805.6M	-51.30	2.399G	-27.52	2.4G	-28.37	2.49266G	-47.28	15.19744G	-44.56	2
2437MHz	Pass	2.43549G	11.65	-18.35	1.62459G	-46.28	2.3935G	-45.50	2.4835G	-51.02	2.48798G	-47.37	24.53923G	-45.75	1
2437MHz	Pass	2.43549G	11.65	-18.35	1.62459G	-38.38	2.39754G	-41.76	2.4835G	-48.10	2.48568G	-43.37	24.14027G	-45.58	2
2462MHz	Pass	2.43549G	11.65	-18.35	1.64149G	-47.68	2.39976G	-49.89	2.4835G	-37.17	2.4835G	-37.24	21.85048G	-46.03	1
2462MHz	Pass	2.43549G	11.65	-18.35	1.64149G	-39.89	2.39936G	-47.52	2.4835G	-41.95	2.48382G	-39.19	15.18339G	-45.01	2
802.11g_Nss1.(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44446G	9.76	-20.24	2.30117G	-51.46	2.39986G	-30.98	2.4G	-31.72	2.48972G	-49.67	23.45193G	-46.16	1
2412MHz	Pass	2.44446G	9.76	-20.24	724.92M	-52.75	2.39868G	-32.63	2.4G	-36.35	2.50964G	-50.46	24.55047G	-44.96	2
2437MHz	Pass	2.44446G	9.76	-20.24	2.19632G	-51.87	2.3995G	-40.66	2.4G	-43.33	2.48518G	-45.22	15.18058G	-45.01	1
2437MHz	Pass	2.44446G	9.76	-20.24	2.19865G	-51.55	2.39954G	-39.36	2.4G	-43.20	2.48542G	-43.28	24.15994G	-45.71	2
2462MHz	Pass	2.44446G	9.76	-20.24	2.08069G	-52.48	2.39246G	-51.26	2.4835G	-42.42	2.48384G	-41.18	15.19744G	-46.02	1
2462MHz	Pass	2.44446G	9.76	-20.24	747.06M	-51.93	2.39902G	-50.42	2.4835G	-45.76	2.48356G	-44.35	14.79848G	-45.76	2
802.11n HT20_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.42952G	5.71	-24.29	951.52M	-50.49	2.39854G	-29.52	2.4G	-32.00	2.49848G	-49.71	24.45494G	-46.10	1
2412MHz	Pass	2.42952G	5.71	-24.29	811.42M	-52.39	2.3989G	-30.76	2.4G	-32.63	2.51964G	-50.06	3.21465G	-44.06	2
2437MHz	Pass	2.42952G	5.71	-24.29	2.30466G	-49.41	2.39886G	-47.64	2.4G	-50.88	2.48964G	-48.93	15.18339G	-45.86	1
2437MHz	Pass	2.42952G	5.71	-24.29	2.30292G	-50.13	2.39816G	-47.97	2.4G	-50.47	2.5226G	-48.74	24.48866G	-45.83	2
2462MHz	Pass	2.42952G	5.71	-24.29	1.88788G	-52.53	2.39848G	-49.89	2.4835G	-44.78	2.4835G	-43.04	24.11499G	-46.16	1
2462MHz	Pass	2.42952G	5.71	-24.29	2.30903G	-51.89	2.3966G	-49.78	2.4835G	-44.51	2.48352G	-42.09	16.98432G	-45.74	2
802.11n HT40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42071G	2.37	-27.63	2.18689G	-51.68	2.3986G	-35.22	2.4G	-37.39	2.49434G	-49.33	15.19244G	-46.25	1
2422MHz	Pass	2.42071G	2.37	-27.63	2.30483G	-52.23	2.39884G	-35.44	2.4G	-36.66	2.53778G	-49.48	3.22818G	-43.21	2
2437MHz	Pass	2.42071G	2.37	-27.63	2.09816G	-51.58	2.39972G	-32.15	2.4G	-35.69	2.4837G	-41.89	15.17842G	-45.66	1
2437MHz	Pass	2.42071G	2.37	-27.63	2.30655G	-52.43	2.39952G	-29.25	2.4G	-36.71	2.48446G	-42.02	3.24781G	-44.12	2
2452MHz	Pass	2.42071G	2.37	-27.63	2.19262G	-51.96	2.39952G	-49.64	2.4835G	-42.42	2.48654G	-39.99	21.79719G	-45.86	1
2452MHz	Pass	2.42071G	2.37	-27.63	694.1M	-52.09	2.39988G	-49.58	2.4835G	-41.29	2.48742G	-40.21	21.84767G	-45.83	2

802.11b_Nss1,(1Mbps)_2TX

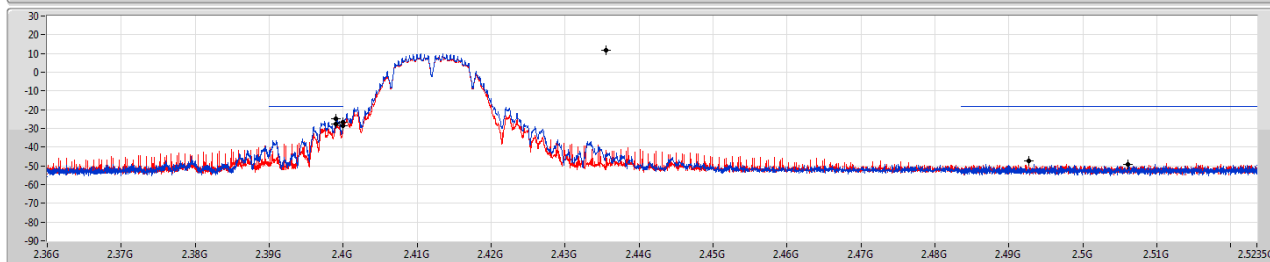
2412MHz

CSE NdB

11/03/2021



Port 1
Port 2



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

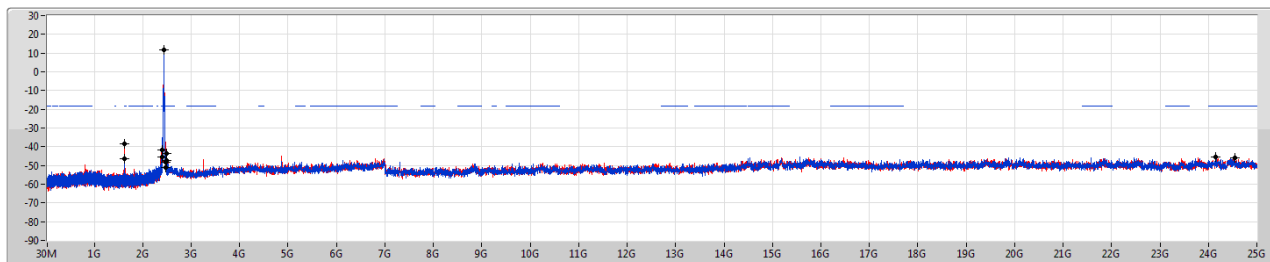
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43549G	11.65	-18.35	2.30204G	-51.15	2.399G	-24.82	2.4G	-26.63	2.50612G	-49.14	24.12342G	-45.90	1
2.43549G	11.65	-18.35	805.6M	-51.30	2.399G	-27.52	2.4G	-28.37	2.49266G	-47.28	15.19744G	-44.56	2

802.11b_Nss1,(1Mbps)_2TX

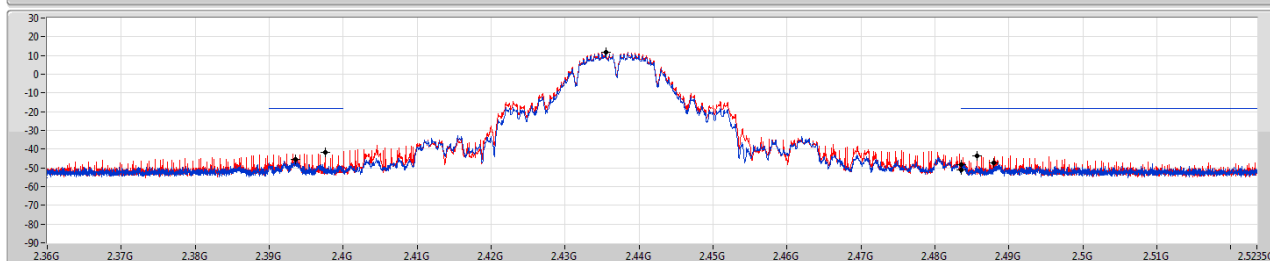
2437MHz

CSE NdB

11/03/2021



Port 1
Port 2



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

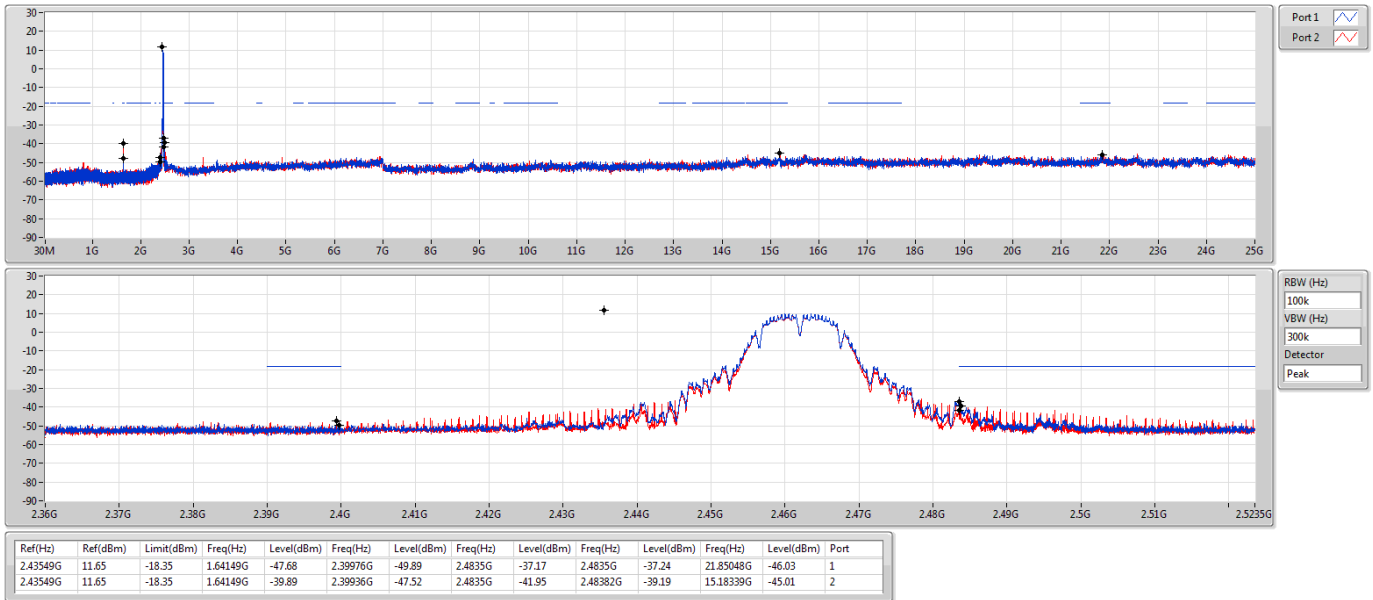
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43549G	11.65	-18.35	1.62459G	-46.28	2.3935G	-45.50	2.4835G	-51.02	2.48798G	-47.37	24.53923G	-45.75	1
2.43549G	11.65	-18.35	1.62459G	-38.38	2.39754G	-41.76	2.4835G	-48.10	2.48568G	-43.37	24.14027G	-45.58	2

802.11b_Nss1,(1Mbps)_2TX

2462MHz

CSE NdB

11/03/2021

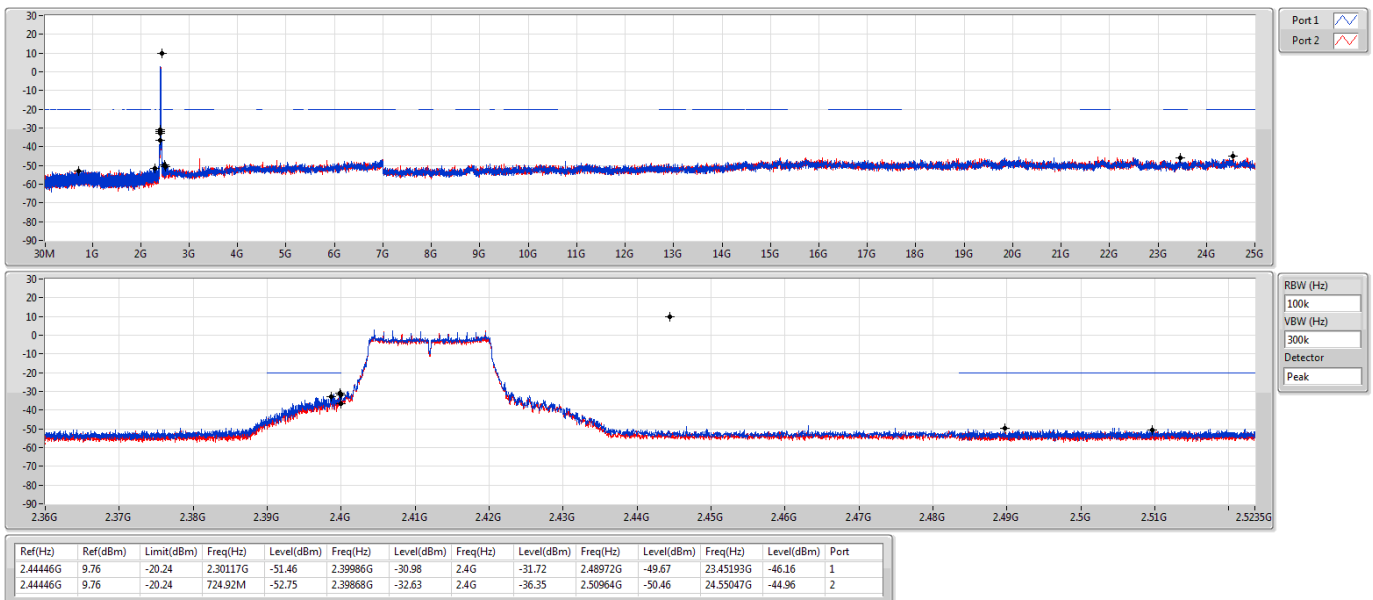


802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSE NdB

11/03/2021

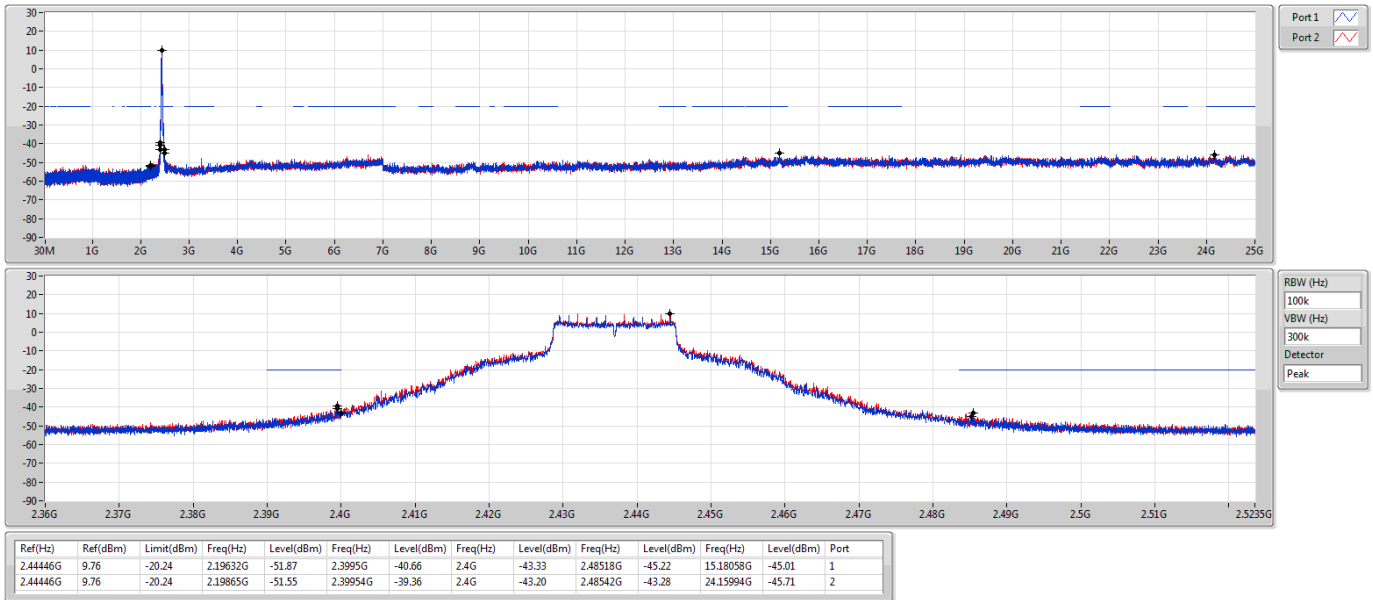


802.11g_Nss1,(6Mbps)_2TX

2437MHz

CSE NdB

11/03/2021

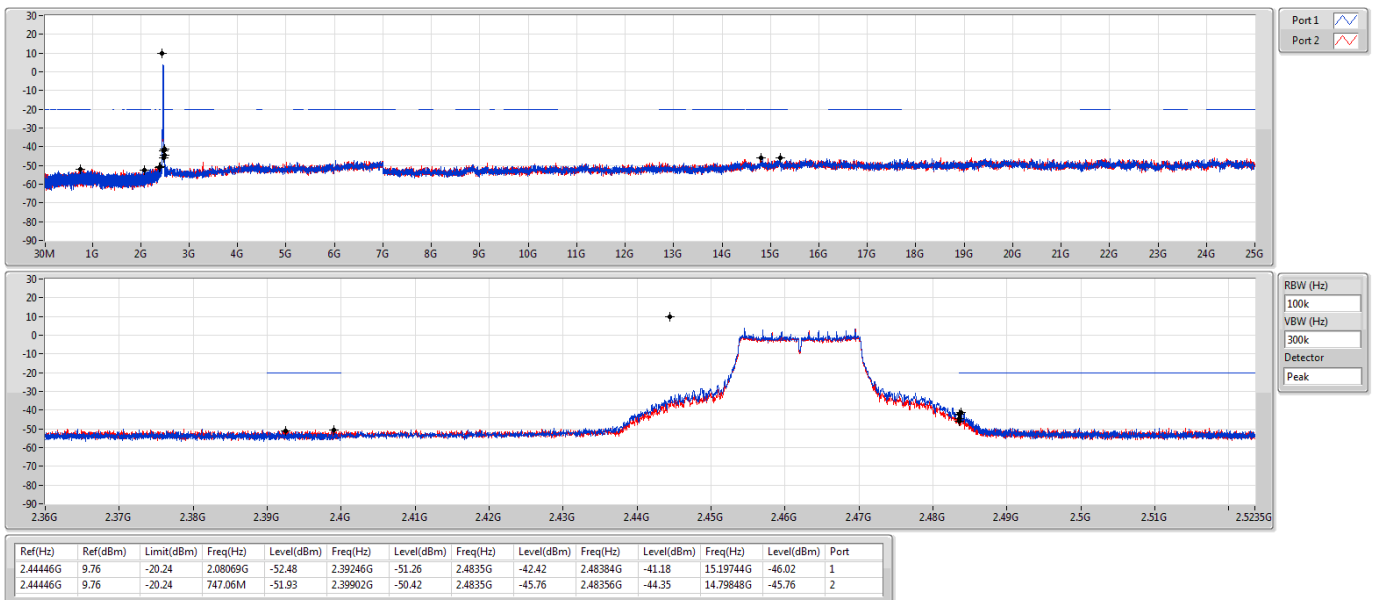


802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSE NdB

11/03/2021

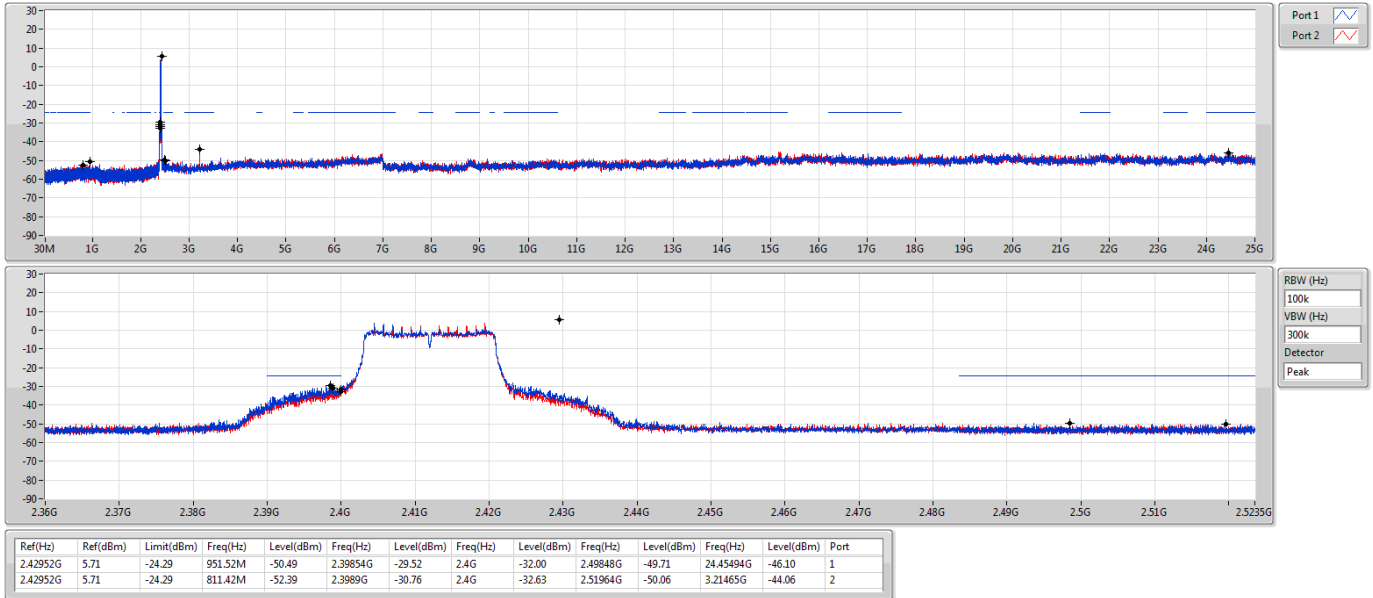


802.11n HT20_Nss1,(MCS0)_2TX

2412MHz

CSE NdB

11/03/2021

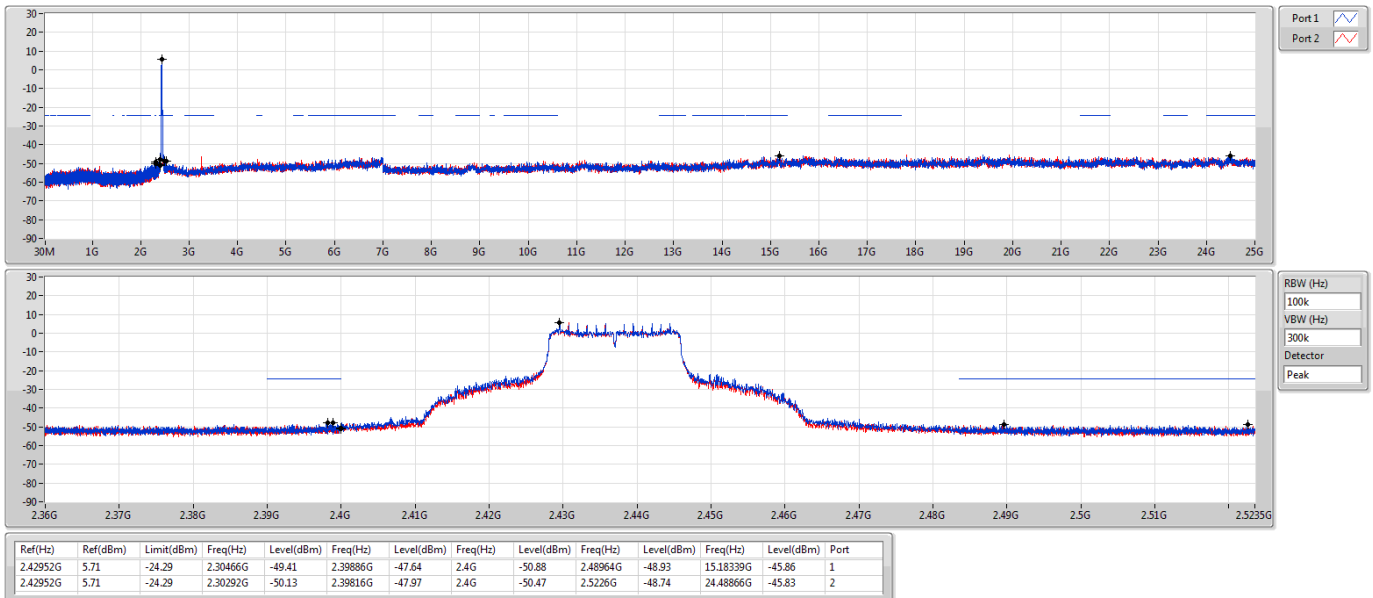


802.11n HT20_Nss1,(MCS0)_2TX

2437MHz

CSE NdB

11/03/2021

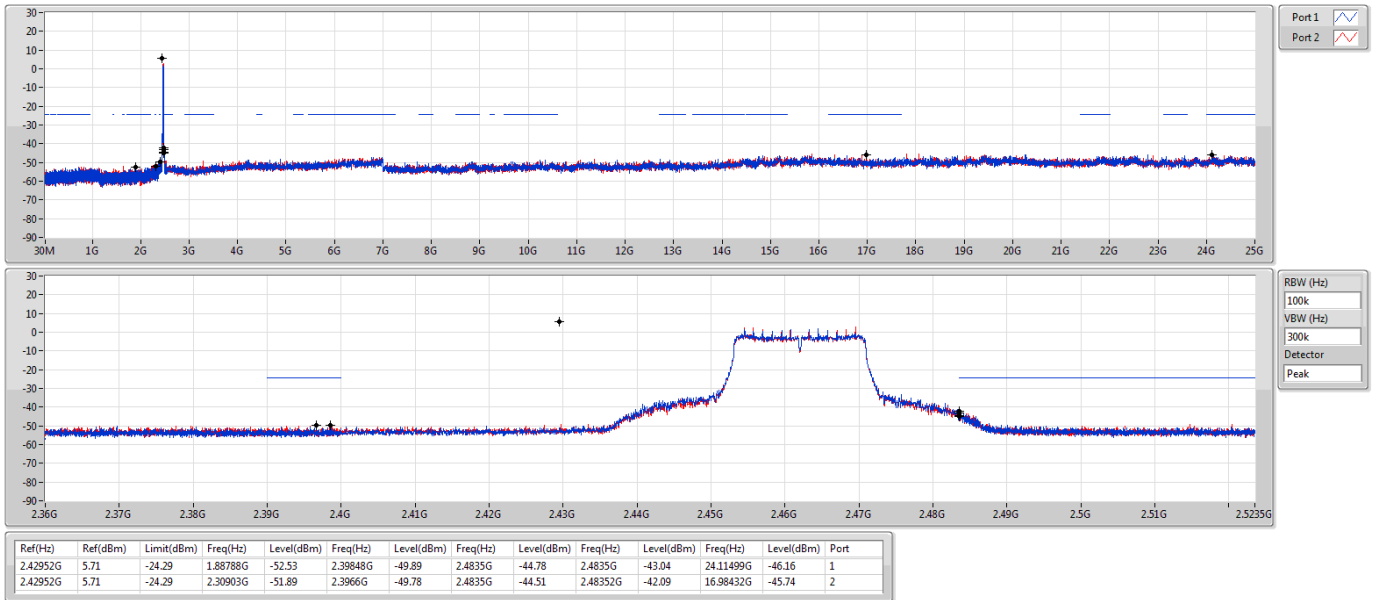


802.11n HT20_Nss1,(MCS0)_2TX

2462MHz

CSE NdB

11/03/2021

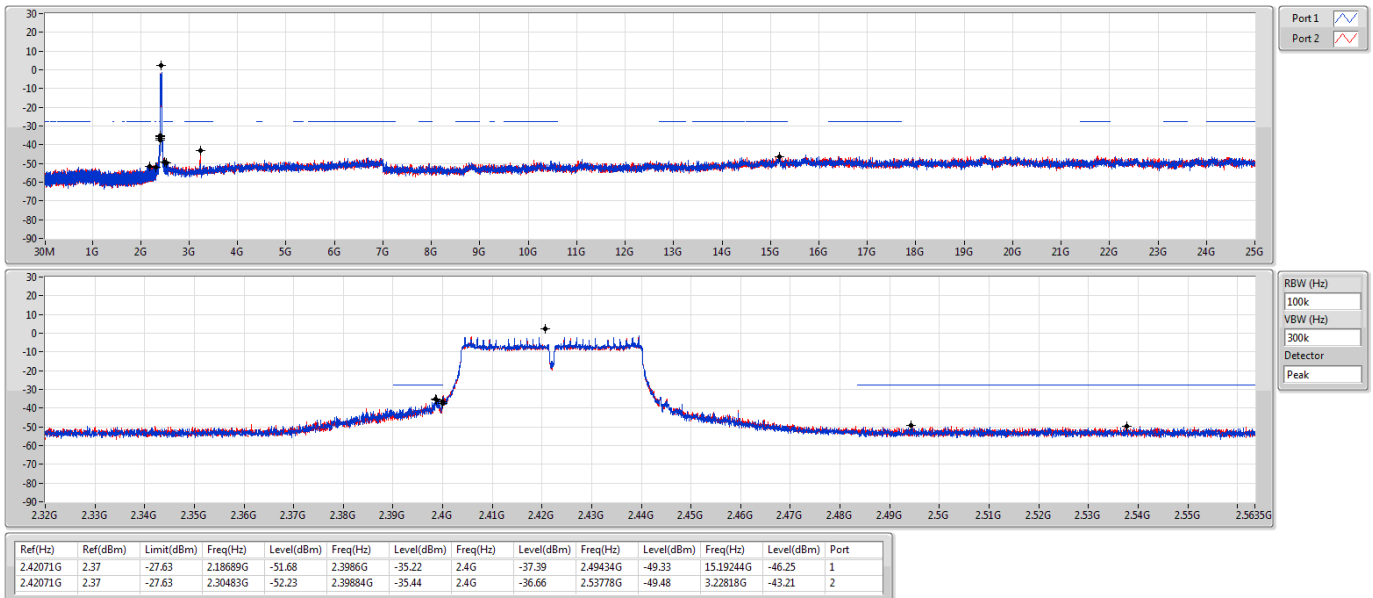


802.11n HT40_Nss1,(MCS0)_2TX

2422MHz

CSE NdB

11/03/2021

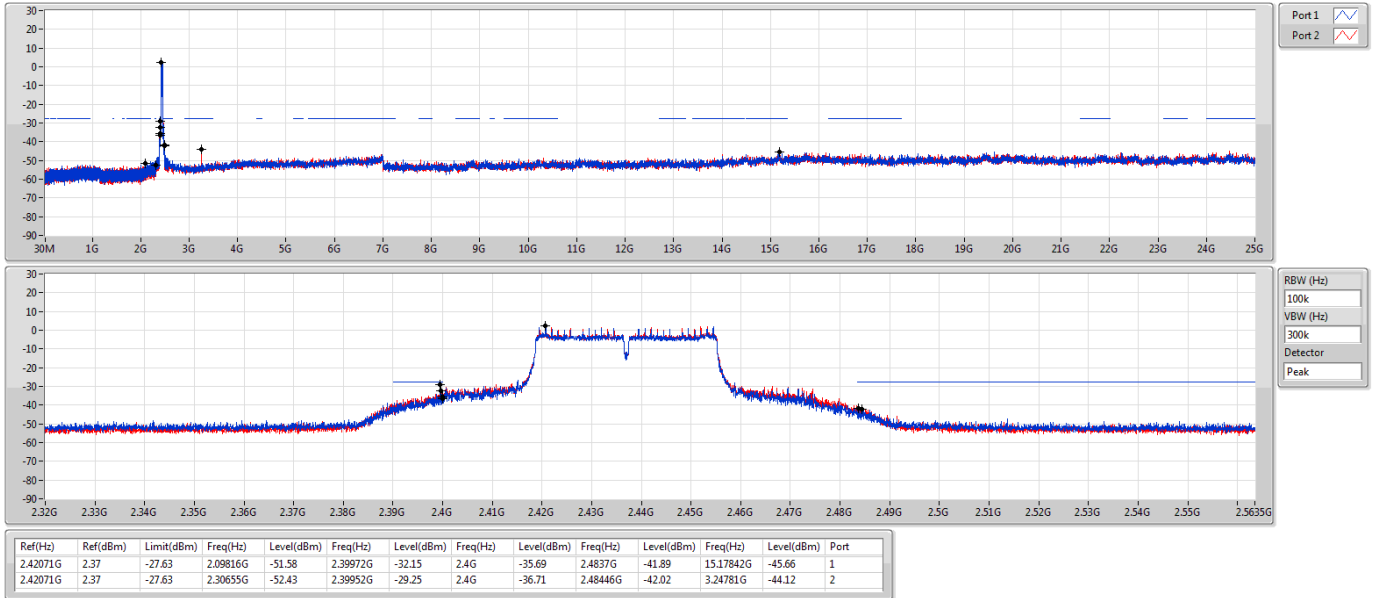


802.11n HT40_Nss1,(MCS0)_2TX

2437MHz

CSE NdB

11/03/2021

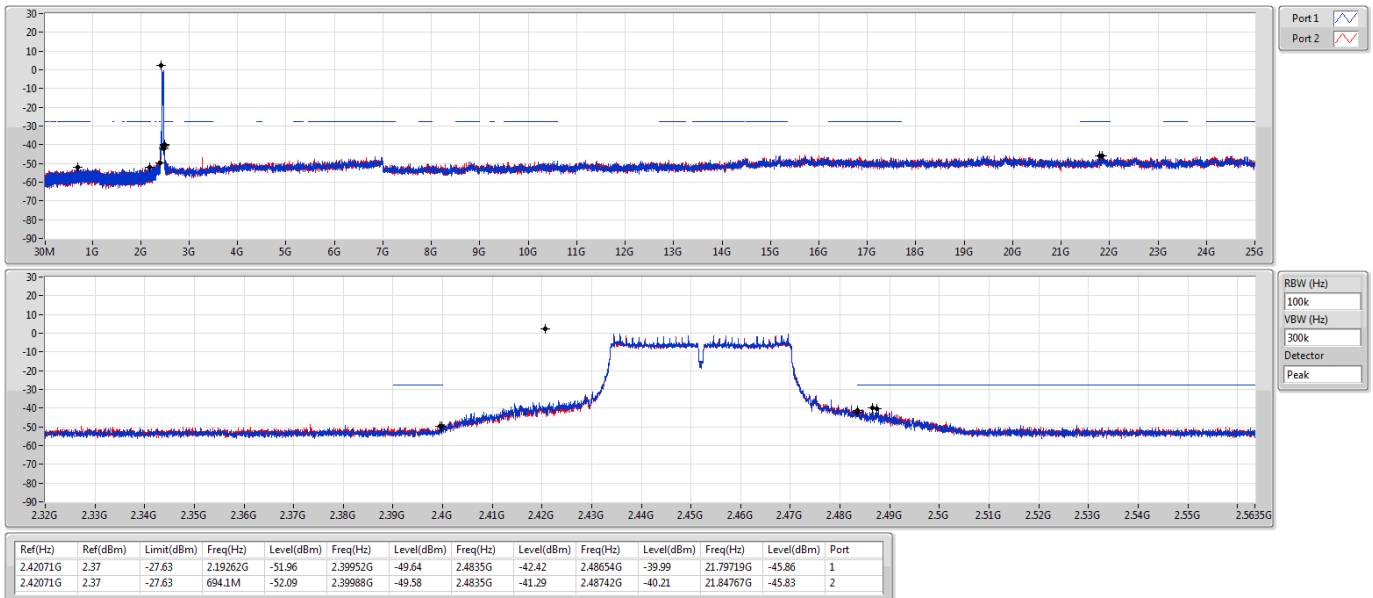


802.11n HT40_Nss1,(MCS0)_2TX

2452MHz

CSE NdB

11/03/2021





Radiated Emissions below 1GHz

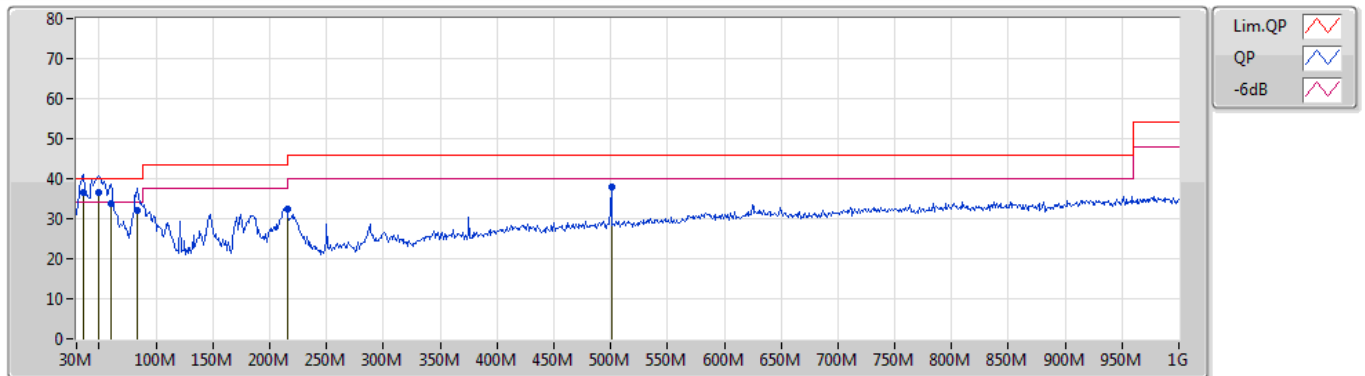
Appendix F.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	35.82M	36.51	40.00	-3.49	Vertical

Mode 2

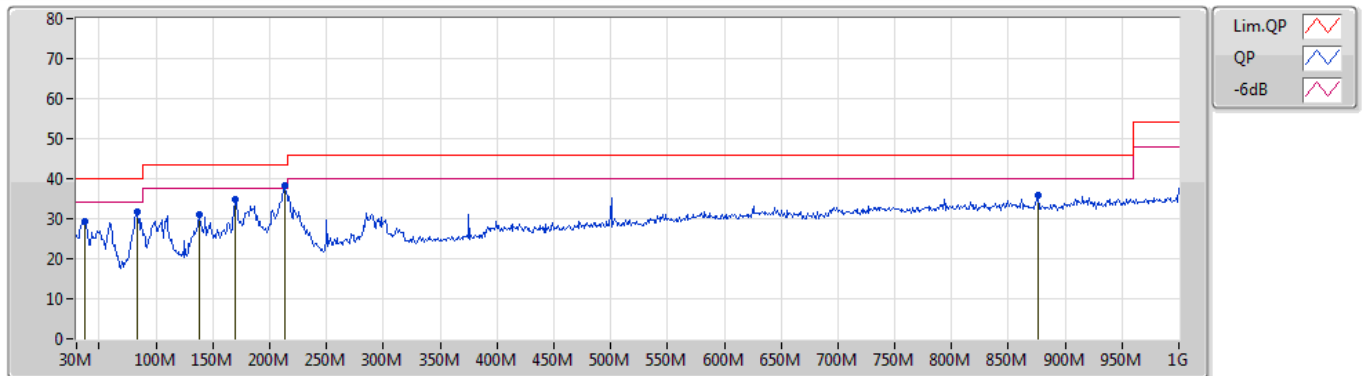
22/03/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
QP	35.82M	36.51	40.00	-3.49	-10.69	3	Vertical	167	1.00	"Worst"	47.20	20.67	1.02	32.38
QP	49.4M	36.42	40.00	-3.58	-17.18	3	Vertical	360	1.00	-	53.60	14.01	1.19	32.38
QP	60.07M	33.65	40.00	-6.35	-18.55	3	Vertical	0	1.00	-	52.20	12.42	1.40	32.37
QP	83.35M	32.11	40.00	-7.89	-17.39	3	Vertical	200	1.00	-	49.50	13.34	1.60	32.33
PK	215.27M	32.51	43.50	-10.99	-14.58	3	Vertical	315	1.00	-	47.09	14.94	2.69	32.21
PK	500.45M	37.94	46.00	-8.06	-4.29	3	Vertical	172	1.00	-	42.23	23.53	4.30	32.12

Mode 2

22/03/2021



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	36.79M	29.33	40.00	-10.67	-11.07	3	Horizontal	32	3.00	-	40.40	20.27	1.04	32.38
PK	83.35M	31.64	40.00	-8.36	-17.39	3	Horizontal	270	2.00	-	49.03	13.34	1.60	32.33
PK	137.67M	31.01	43.50	-12.49	-12.80	3	Horizontal	261	2.00	-	43.81	17.41	2.09	32.30
PK	169.68M	34.92	43.50	-8.58	-14.22	3	Horizontal	81	1.50	-	49.14	15.68	2.35	32.25
PK	213.33M	38.44	43.50	-5.06	-14.60	3	Horizontal	308	1.25	"Worst"	53.04	14.93	2.68	32.21
PK	875.84M	35.71	46.00	-10.29	0.68	3	Horizontal	66	1.00	-	35.03	26.28	5.80	31.40



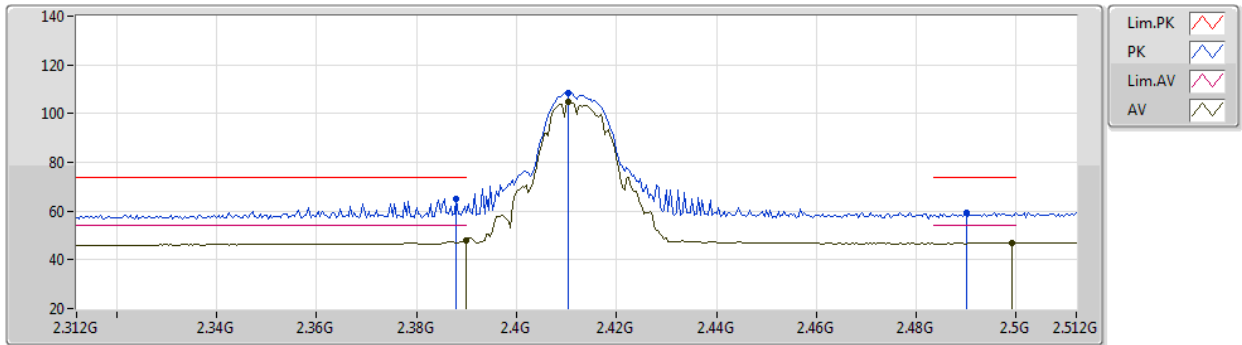
Summary

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	AV	2.4835G	53.99	54.00	-0.01	3	Horizontal	190	1.19	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2412MHz_TX



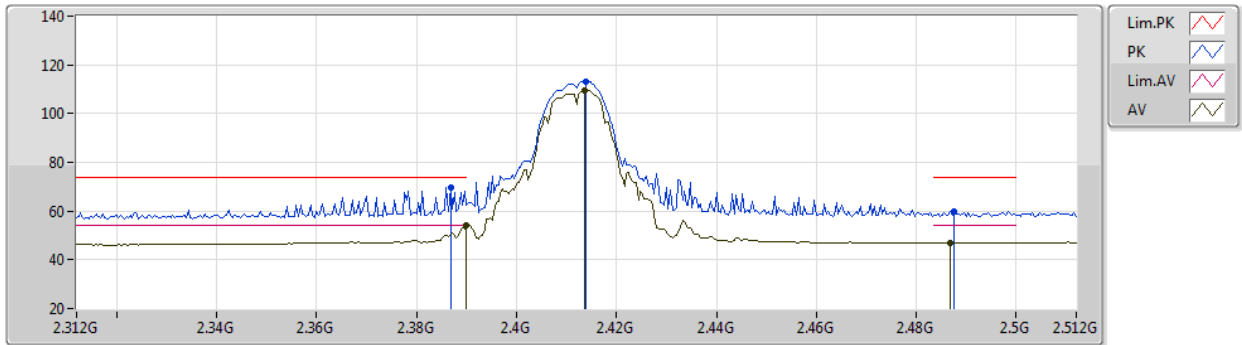
EUT_Z_2TX
Setting 28/25
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	65.02	74.00	-8.98	34.31	3	Vertical	164	2.90	-	28.30	2.41	-
AV	2.39G	47.92	54.00	-6.08	17.21	3	Vertical	164	2.90	-	28.30	2.41	-
PK	2.4104G	108.70	Inf	-Inf	77.97	3	Vertical	164	2.90	-	28.32	2.41	-
AV	2.4104G	104.75	Inf	-Inf	74.02	3	Vertical	164	2.90	-	28.32	2.41	-
PK	2.49G	59.45	74.00	-14.55	28.45	3	Vertical	164	2.90	-	28.56	2.44	-
AV	2.4992G	46.91	54.00	-7.09	15.86	3	Vertical	164	2.90	-	28.60	2.45	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2412MHz_TX



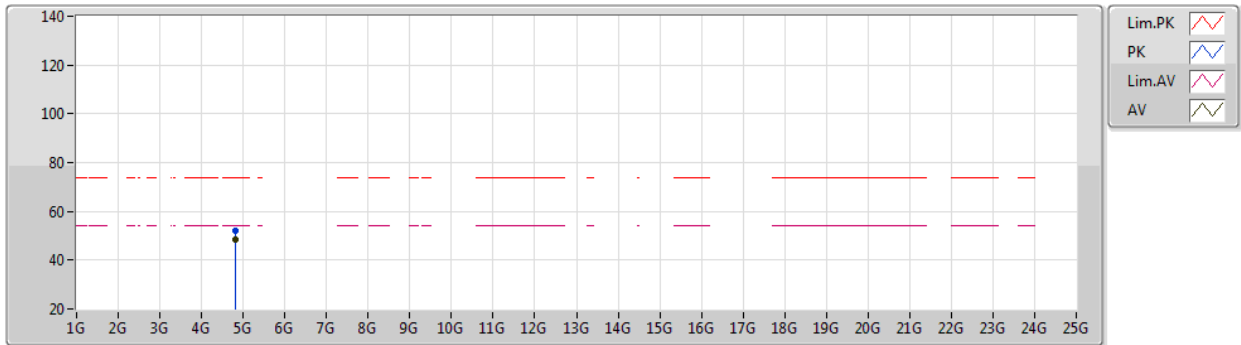
EUT Z_2TX
Setting 28/25
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3868G	69.90	74.00	-4.10	39.19	3	Horizontal	175	1.94	-	28.30	2.41	-
AV	2.39G	53.89	54.00	-0.11	23.18	3	Horizontal	175	1.94	-	28.30	2.41	-
PK	2.414G	113.25	Inf	-Inf	82.51	3	Horizontal	175	1.94	-	28.33	2.41	-
AV	2.4136G	109.49	Inf	-Inf	78.75	3	Horizontal	175	1.94	-	28.33	2.41	-
PK	2.4876G	59.87	74.00	-14.13	28.88	3	Horizontal	175	1.94	-	28.55	2.44	-
AV	2.4868G	47.08	54.00	-6.92	16.09	3	Horizontal	175	1.94	-	28.55	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2412MHz_TX



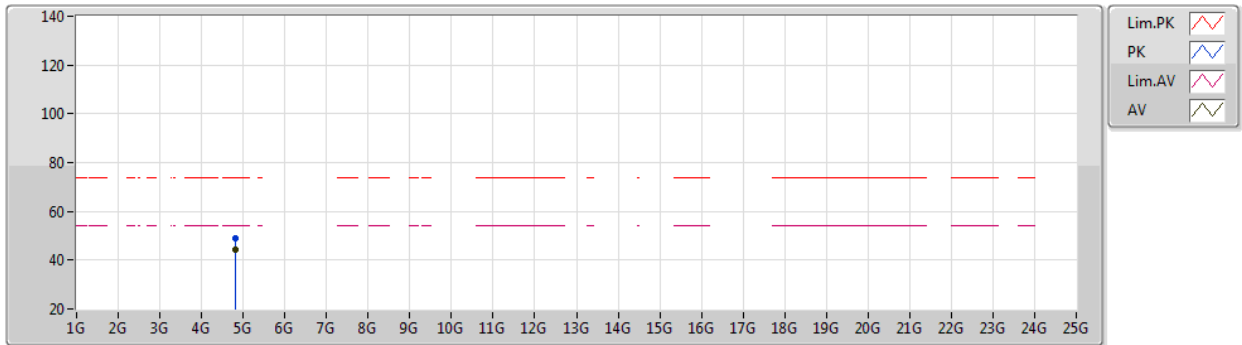
EUT_Z_2TX
Setting 28/25
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.824G	52.27	74.00	-21.73	46.45	3	Vertical	175	2.15	-	32.90	4.70	31.78
AV	4.824G	48.30	54.00	-5.70	42.48	3	Vertical	175	2.15	-	32.90	4.70	31.78

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2412MHz_TX



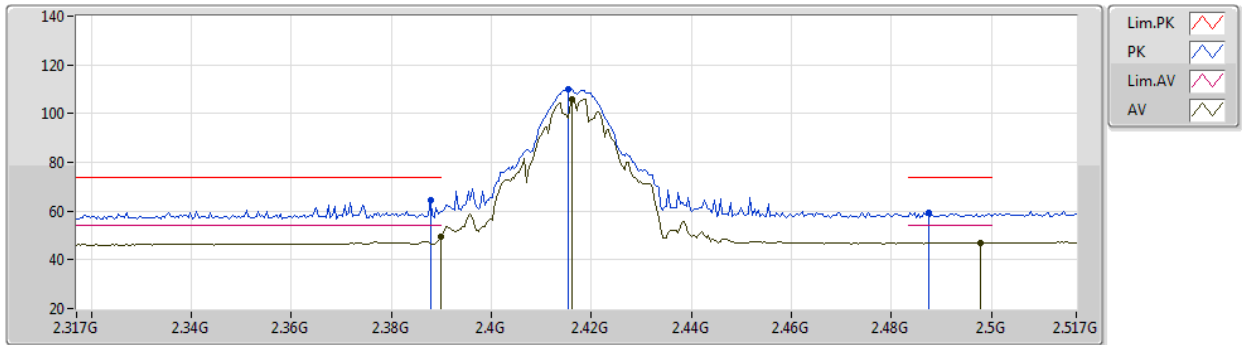
EUT_Z_2TX
Setting 28/25
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82396G	49.02	74.00	-24.98	43.20	3	Horizontal	195	2.46	-	32.90	4.70	31.78
AV	4.824G	44.07	54.00	-9.93	38.25	3	Horizontal	195	2.46	-	32.90	4.70	31.78

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2417MHz_TX



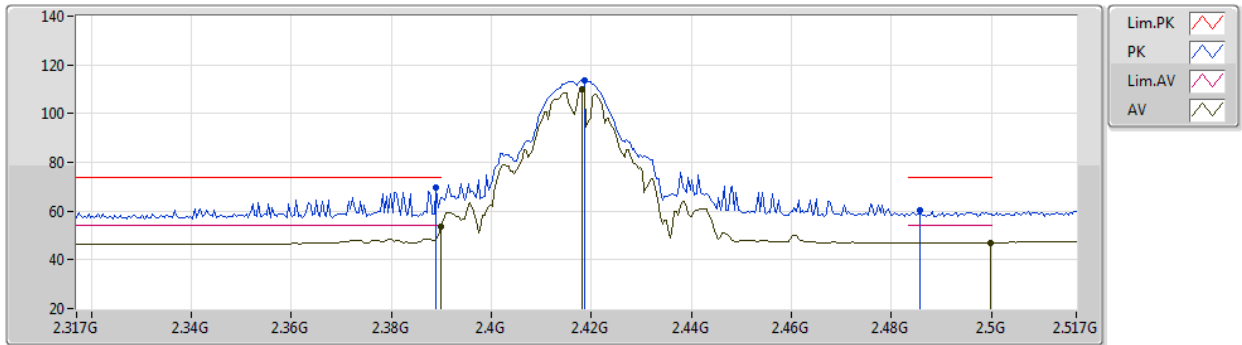
EUT_Z_2TX
Setting 38/35
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	64.42	74.00	-9.58	33.71	3	Vertical	179	2.90	-	28.30	2.41	-
AV	2.3898G	49.38	54.00	-4.62	18.67	3	Vertical	179	2.90	-	28.30	2.41	-
PK	2.4154G	109.90	Inf	-Inf	79.16	3	Vertical	179	2.90	-	28.33	2.41	-
AV	2.4162G	105.84	Inf	-Inf	75.10	3	Vertical	179	2.90	-	28.33	2.41	-
PK	2.4874G	59.37	74.00	-14.63	28.38	3	Vertical	179	2.90	-	28.55	2.44	-
AV	2.4978G	46.92	54.00	-7.08	15.88	3	Vertical	179	2.90	-	28.59	2.45	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2417MHz_TX



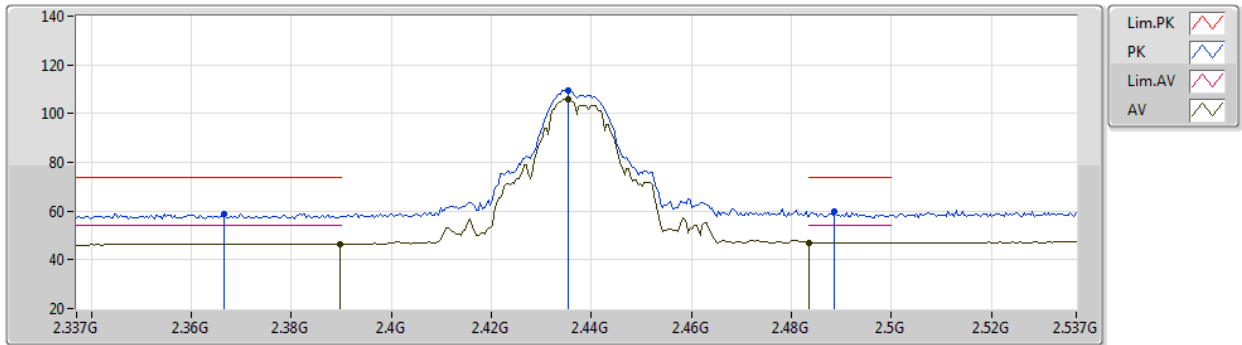
EUT_Z_2TX
Setting 38/35
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	69.73	74.00	-4.27	39.02	3	Horizontal	194	1.00	-	28.30	2.41	-
AV	2.3898G	53.76	54.00	-0.24	23.05	3	Horizontal	194	1.00	-	28.30	2.41	-
PK	2.4186G	113.77	Inf	-Inf	83.02	3	Horizontal	194	1.00	-	28.34	2.41	-
AV	2.4182G	109.82	Inf	-Inf	79.07	3	Horizontal	194	1.00	-	28.34	2.41	-
PK	2.4858G	60.33	74.00	-13.67	29.35	3	Horizontal	194	1.00	-	28.54	2.44	-
AV	2.4998G	47.14	54.00	-6.86	16.09	3	Horizontal	194	1.00	-	28.60	2.45	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2437MHz_TX



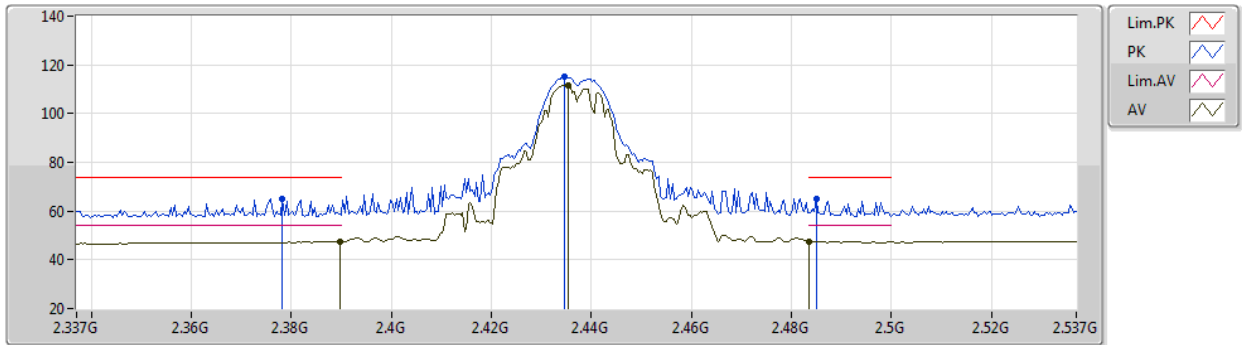
EUT Z_2TX
Setting 50/47
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3666G	58.89	74.00	-15.11	28.17	3	Vertical	184	2.77	-	28.30	2.42	-
AV	2.3898G	46.38	54.00	-7.62	15.67	3	Vertical	184	2.77	-	28.30	2.41	-
PK	2.4354G	109.46	Inf	-Inf	78.67	3	Vertical	184	2.77	-	28.37	2.42	-
AV	2.4354G	105.87	Inf	-Inf	75.08	3	Vertical	184	2.77	-	28.37	2.42	-
PK	2.4886G	59.84	74.00	-14.16	28.85	3	Vertical	184	2.77	-	28.55	2.44	-
AV	2.4835G	46.95	54.00	-7.05	15.98	3	Vertical	184	2.77	-	28.53	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2437MHz_TX



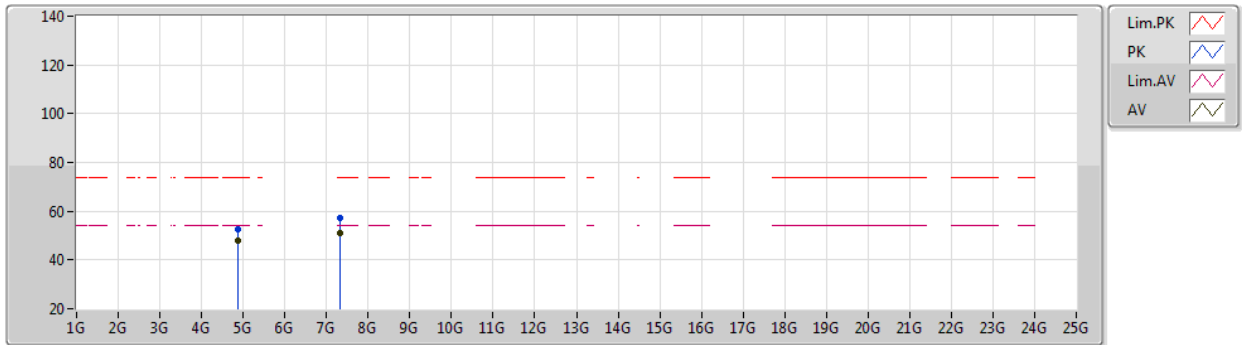
EUT_Z_2TX
Setting 50/47
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3782G	65.10	74.00	-8.90	34.39	3	Horizontal	170	1.17	-	28.30	2.41	-
AV	2.3898G	47.40	54.00	-6.60	16.69	3	Horizontal	170	1.17	-	28.30	2.41	-
PK	2.4346G	115.24	Inf	-Inf	84.45	3	Horizontal	170	1.17	-	28.37	2.42	-
AV	2.4354G	111.64	Inf	-Inf	80.85	3	Horizontal	170	1.17	-	28.37	2.42	-
PK	2.485G	65.04	74.00	-8.96	34.06	3	Horizontal	170	1.17	-	28.54	2.44	-
AV	2.4835G	47.54	54.00	-6.46	16.57	3	Horizontal	170	1.17	-	28.53	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2437MHz_TX



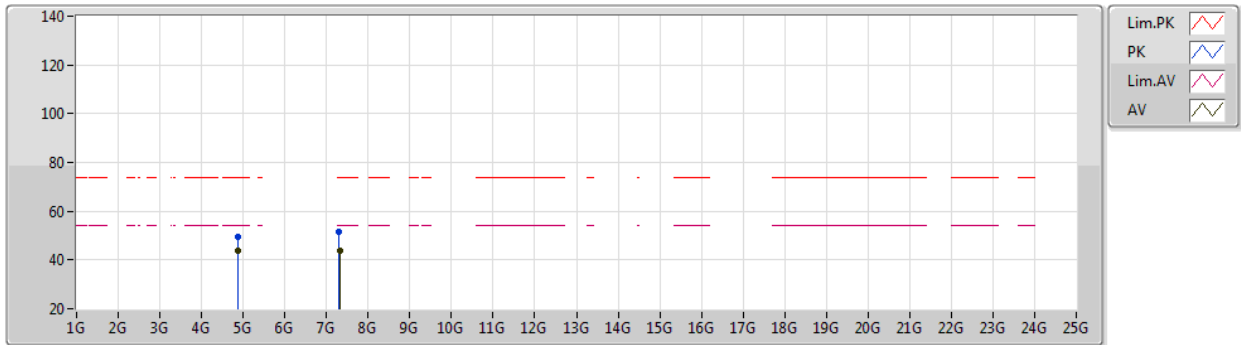
EUT_Z_2TX
Setting 50/47
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	52.63	74.00	-21.37	46.62	3	Vertical	164	2.35	-	33.10	4.70	31.79
AV	4.87392G	48.08	54.00	-5.92	42.07	3	Vertical	164	2.35	-	33.10	4.70	31.79
PK	7.31208G	57.16	74.00	-16.84	47.40	3	Vertical	54	1.92	-	36.42	5.76	32.42
AV	7.31176G	51.05	54.00	-2.95	41.29	3	Vertical	54	1.92	-	36.42	5.76	32.42

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2437MHz_TX



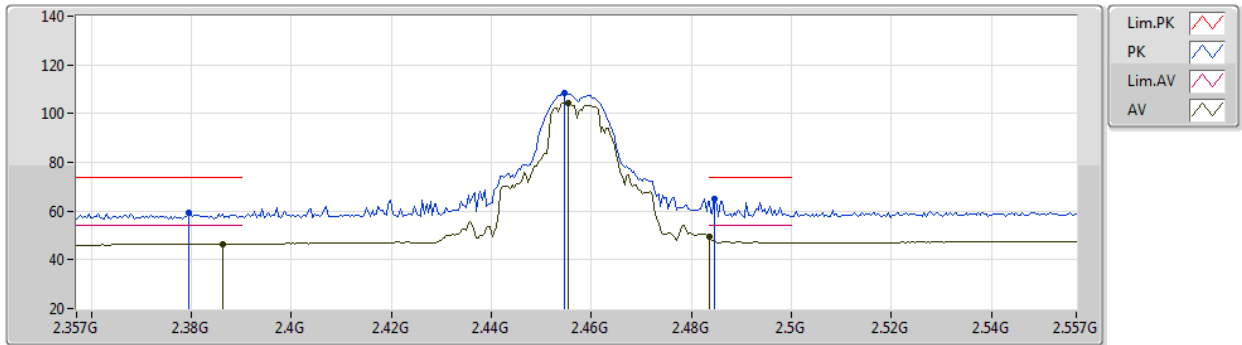
EUT_Z_2TX
Setting 50/47
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87416G	49.52	74.00	-24.48	43.51	3	Horizontal	83	2.65	-	33.10	4.70	31.79
AV	4.87388G	43.85	54.00	-10.15	37.84	3	Horizontal	83	2.65	-	33.10	4.70	31.79
PK	7.30912G	51.49	74.00	-22.51	41.74	3	Horizontal	187	2.42	-	36.42	5.75	32.42
AV	7.31024G	43.84	54.00	-10.16	34.08	3	Horizontal	187	2.42	-	36.42	5.76	32.42

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2457MHz_TX



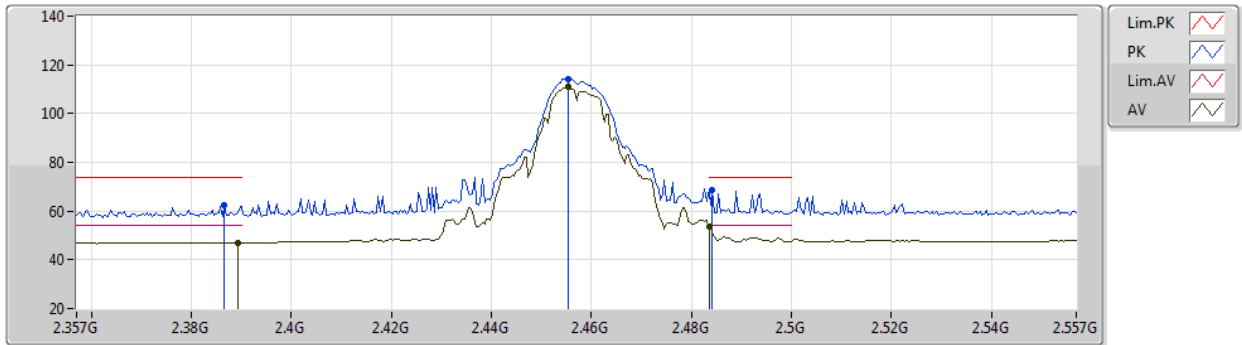
EUT_Z_2TX
Setting 35/32
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3794G	59.09	74.00	-14.91	28.38	3	Vertical	173	2.53	-	28.30	2.41	-
AV	2.3862G	46.49	54.00	-7.51	15.78	3	Vertical	173	2.53	-	28.30	2.41	-
PK	2.4546G	108.34	Inf	-Inf	77.49	3	Vertical	173	2.53	-	28.42	2.43	-
AV	2.4554G	104.54	Inf	-Inf	73.69	3	Vertical	173	2.53	-	28.42	2.43	-
PK	2.4846G	64.83	74.00	-9.17	33.85	3	Vertical	173	2.53	-	28.54	2.44	-
AV	2.4835G	49.70	54.00	-4.30	18.73	3	Vertical	173	2.53	-	28.53	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2457MHz_TX



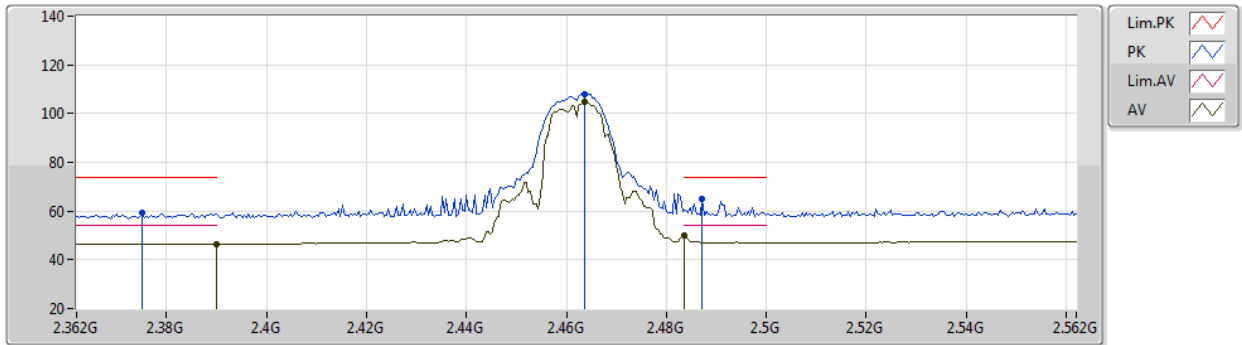
EUT Z_2TX
Setting 35/32
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3866G	62.23	74.00	-11.77	31.52	3	Horizontal	118	1.10	-	28.30	2.41	-
AV	2.3894G	47.08	54.00	-6.92	16.37	3	Horizontal	118	1.10	-	28.30	2.41	-
PK	2.4554G	114.28	Inf	-Inf	83.43	3	Horizontal	118	1.10	-	28.42	2.43	-
AV	2.4554G	110.82	Inf	-Inf	79.97	3	Horizontal	118	1.10	-	28.42	2.43	-
PK	2.4842G	68.77	74.00	-5.23	37.79	3	Horizontal	118	1.10	-	28.54	2.44	-
AV	2.4835G	53.85	54.00	-0.15	22.88	3	Horizontal	118	1.10	-	28.53	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2462MHz_TX



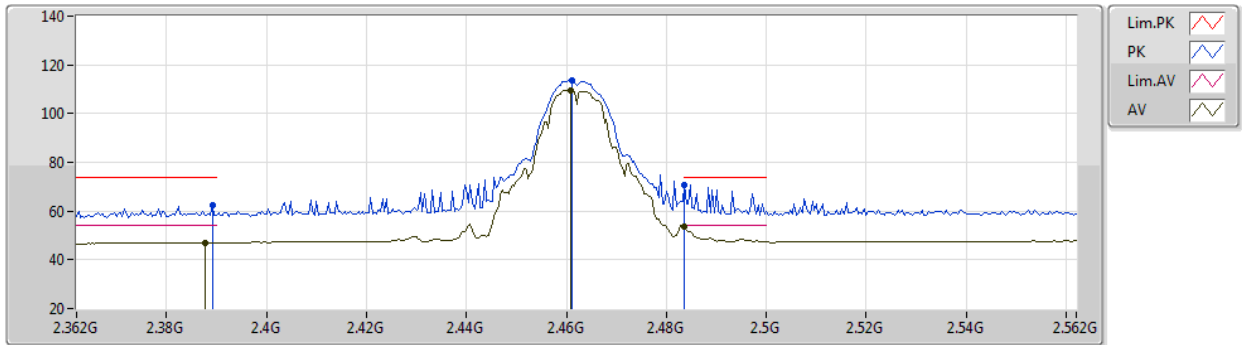
EUT_Z_2TX
Setting 31/28
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3752G	59.24	74.00	-14.76	28.53	3	Vertical	165	2.81	-	28.30	2.41	-
AV	2.39G	46.45	54.00	-7.55	15.74	3	Vertical	165	2.81	-	28.30	2.41	-
PK	2.4636G	108.02	Inf	-Inf	77.14	3	Vertical	165	2.81	-	28.45	2.43	-
AV	2.4636G	104.61	Inf	-Inf	73.73	3	Vertical	165	2.81	-	28.45	2.43	-
PK	2.4872G	65.19	74.00	-8.81	34.20	3	Vertical	165	2.81	-	28.55	2.44	-
AV	2.4835G	49.75	54.00	-4.25	18.78	3	Vertical	165	2.81	-	28.53	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2462MHz_TX



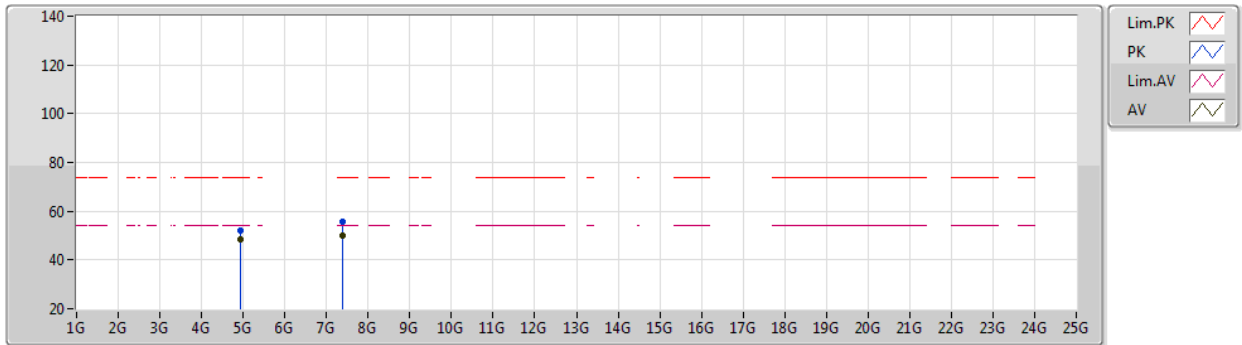
EUT Z_2TX
Setting 31/28
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	62.42	74.00	-11.58	31.71	3	Horizontal	115	2.09	-	28.30	2.41	-
AV	2.3876G	47.14	54.00	-6.86	16.43	3	Horizontal	115	2.09	-	28.30	2.41	-
PK	2.4612G	113.54	Inf	-Inf	82.67	3	Horizontal	115	2.09	-	28.44	2.43	-
AV	2.4608G	109.63	Inf	-Inf	78.76	3	Horizontal	115	2.09	-	28.44	2.43	-
PK	2.4835G	70.92	74.00	-3.08	39.95	3	Horizontal	115	2.09	-	28.53	2.44	-
AV	2.4835G	53.79	54.00	-0.21	22.82	3	Horizontal	115	2.09	-	28.53	2.44	-

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2462MHz_TX



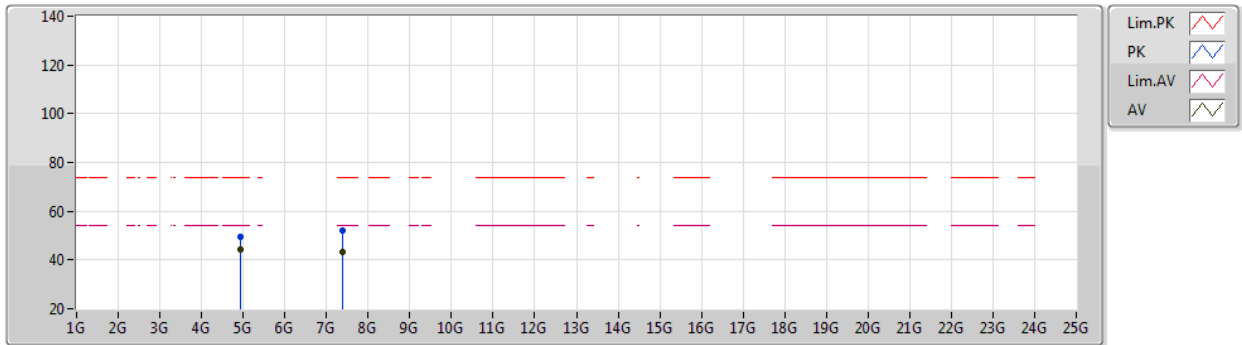
EUT_Z_2TX
Setting 31/28
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	52.26	74.00	-21.74	46.17	3	Vertical	162	2.69	-	33.20	4.70	31.81
AV	4.924G	48.46	54.00	-5.54	42.37	3	Vertical	162	2.69	-	33.20	4.70	31.81
PK	7.38696G	55.86	74.00	-18.14	46.09	3	Vertical	56	2.90	-	36.43	5.79	32.45
AV	7.38684G	49.89	54.00	-4.11	40.12	3	Vertical	56	2.90	-	36.43	5.79	32.45

802.11b_Nss1,(1Mbps)_2TX

10/03/2021

2462MHz_TX



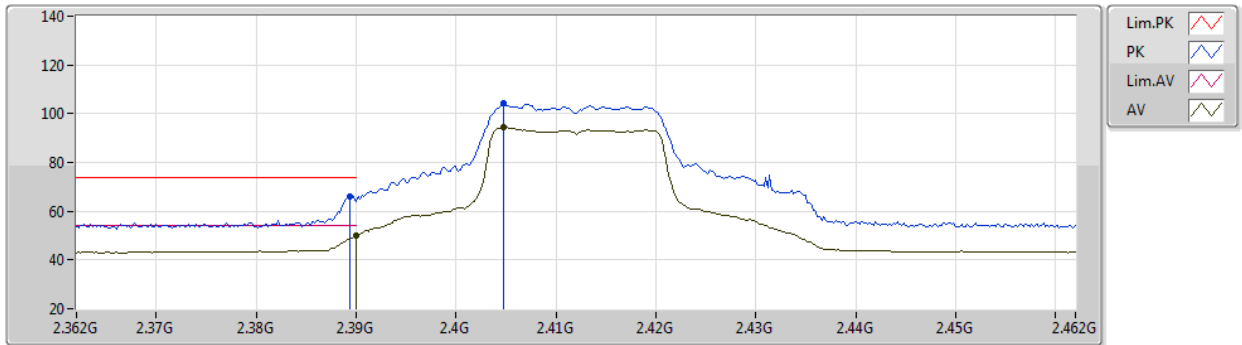
EUT_Z_2TX
Setting 31/28
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	49.46	74.00	-24.54	43.37	3	Horizontal	81	2.24	-	33.20	4.70	31.81
AV	4.92404G	44.50	54.00	-9.50	38.41	3	Horizontal	81	2.24	-	33.20	4.70	31.81
PK	7.38404G	51.92	74.00	-22.08	42.15	3	Horizontal	33	1.82	-	36.43	5.79	32.45
AV	7.38528G	43.13	54.00	-10.87	33.36	3	Horizontal	33	1.82	-	36.43	5.79	32.45

802.11g_Nss1,(6Mbps)_2TX

17/03/2021

2412MHz_TX



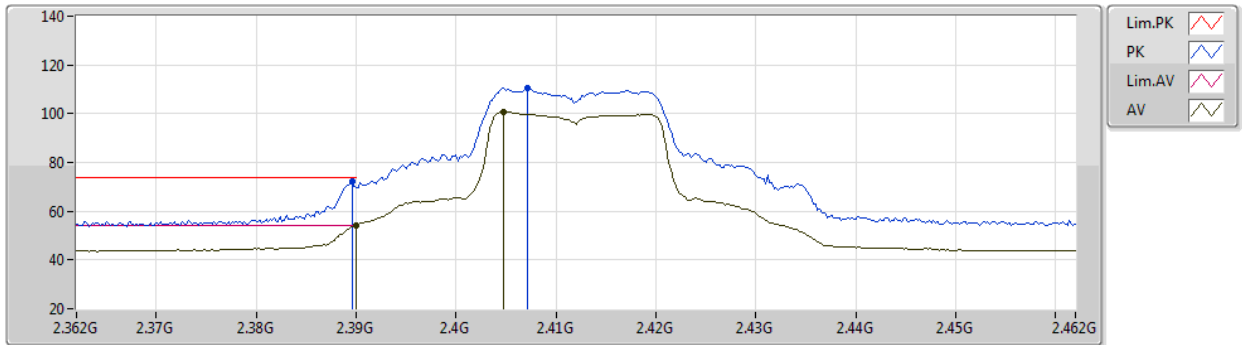
EUT Z_2TX
Setting 15/11
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	66.25	74.00	-7.75	35.57	3	Vertical	208	2.79	-	27.60	3.08	-
AV	2.39G	49.79	54.00	-4.21	19.11	3	Vertical	208	2.79	-	27.60	3.08	-
PK	2.4048G	104.12	Inf	-Inf	73.44	3	Vertical	208	2.79	-	27.58	3.10	-
AV	2.4048G	94.41	Inf	-Inf	63.73	3	Vertical	208	2.79	-	27.58	3.10	-

802.11g_Nss1,(6Mbps)_2TX

17/03/2021

2412MHz_TX



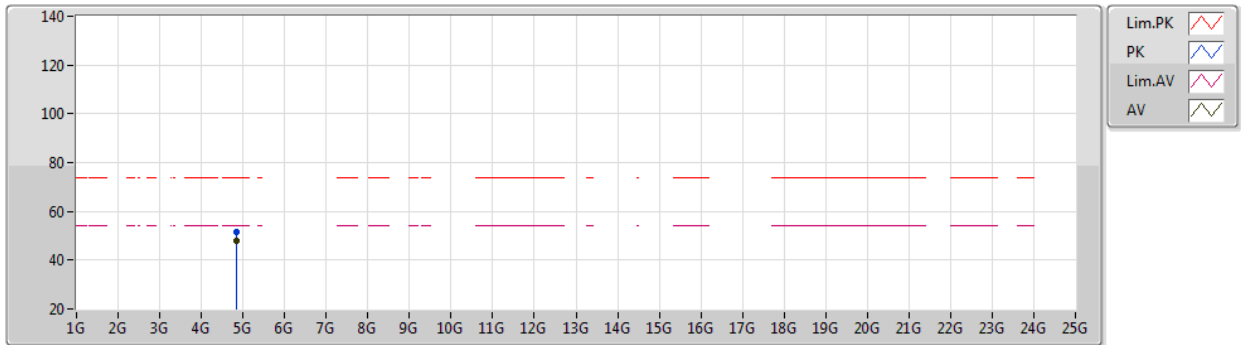
EUT Z_2TX
Setting 15/11
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	72.22	74.00	-1.78	41.54	3	Horizontal	122	2.81	-	27.60	3.08	-
AV	2.39G	53.91	54.00	-0.09	23.23	3	Horizontal	122	2.81	-	27.60	3.08	-
PK	2.4072G	110.66	Inf	-Inf	79.98	3	Horizontal	122	2.81	-	27.57	3.11	-
AV	2.4048G	100.93	Inf	-Inf	70.25	3	Horizontal	122	2.81	-	27.58	3.10	-

802.11g_Nss1,(6Mbps)_2TX

17/03/2021

2412MHz_TX



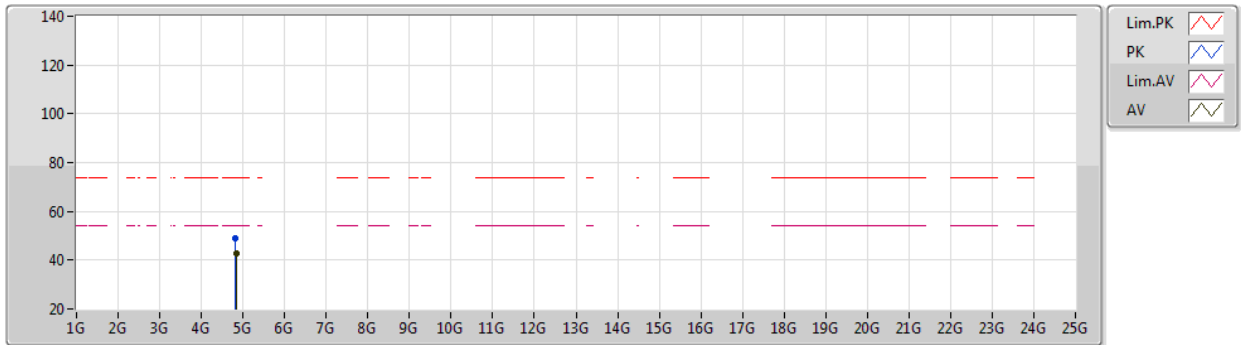
EUT_Z_2TX
Setting 15/11
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83234G	51.80	74.00	-22.20	47.40	3	Vertical	323	1.87	-	31.13	5.00	31.73
AV	4.83474G	47.81	54.00	-6.19	43.40	3	Vertical	323	1.87	-	31.14	5.00	31.73

802.11g_Nss1,(6Mbps)_2TX

17/03/2021

2412MHz_TX



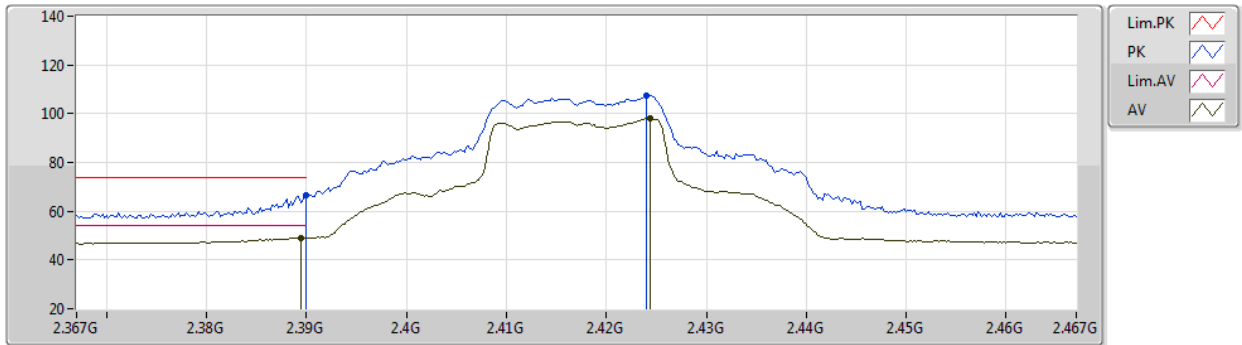
EUT_Z_2TX
Setting 15/11
06-E-S-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8099G	48.80	74.00	-25.20	44.52	3	Horizontal	166	2.51	-	31.04	5.00	31.76	
AV	4.83588G	42.93	54.00	-11.07	38.52	3	Horizontal	166	2.51	-	31.14	5.00	31.73	

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2417MHz_TX



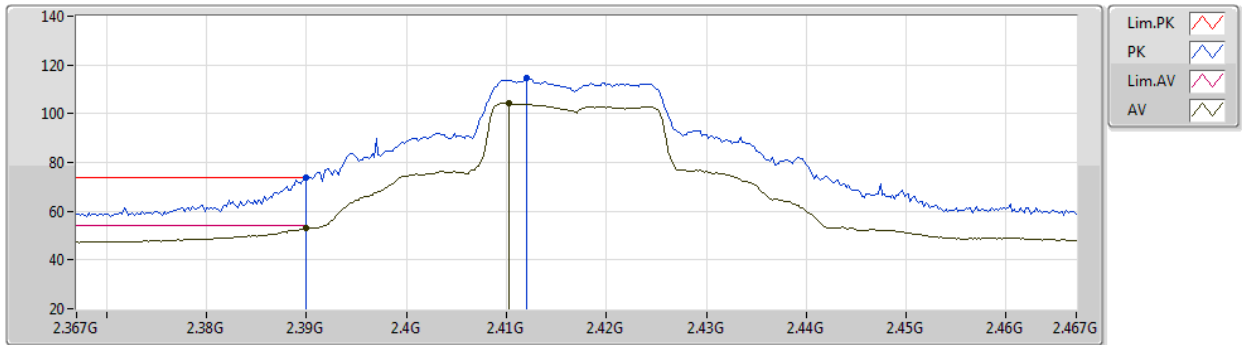
EUT_Z_2TX
Setting 27/25
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	66.69	74.00	-7.31	35.98	3	Vertical	181	2.57	-	28.30	2.41	-
AV	2.3894G	49.20	54.00	-4.80	18.49	3	Vertical	181	2.57	-	28.30	2.41	-
PK	2.424G	107.57	Inf	-Inf	76.81	3	Vertical	181	2.57	-	28.35	2.41	-
AV	2.4244G	98.15	Inf	-Inf	67.39	3	Vertical	181	2.57	-	28.35	2.41	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2417MHz_TX



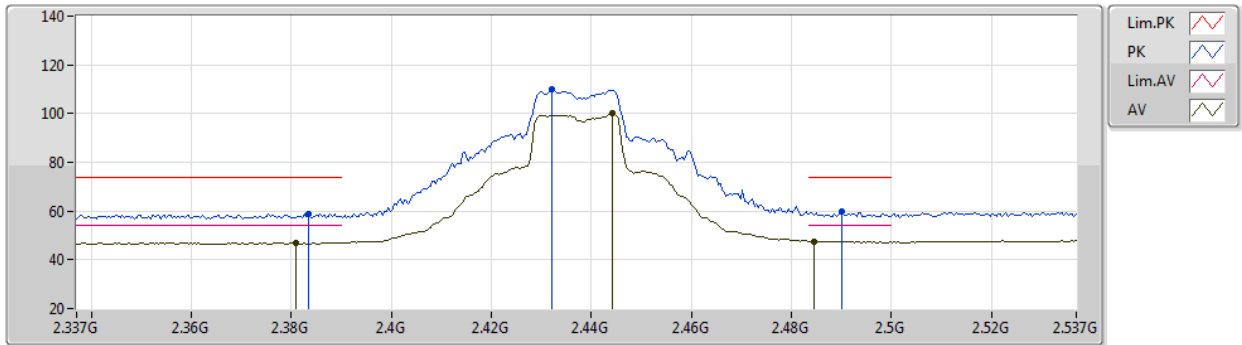
EUT_Z_2TX
Setting 27/25
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	73.75	74.00	-0.25	43.05	3	Horizontal	113	1.88	-	28.30	2.40	-
AV	2.39G	52.87	54.00	-1.13	22.17	3	Horizontal	113	1.88	-	28.30	2.40	-
PK	2.412G	114.63	Inf	-Inf	83.90	3	Horizontal	113	1.88	-	28.32	2.41	-
AV	2.4102G	104.41	Inf	-Inf	73.68	3	Horizontal	113	1.88	-	28.32	2.41	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2437MHz_TX



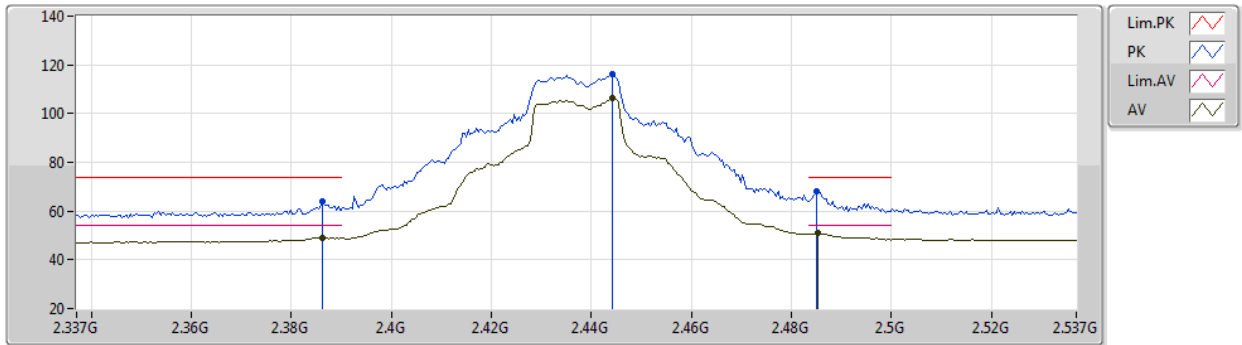
EUT Z_2TX
Setting 50/44
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3834G	58.91	74.00	-15.09	28.20	3	Vertical	195	2.80	-	28.30	2.41	-
AV	2.381G	46.93	54.00	-7.07	16.22	3	Vertical	195	2.80	-	28.30	2.41	-
PK	2.4322G	109.81	Inf	-Inf	79.03	3	Vertical	195	2.80	-	28.36	2.42	-
AV	2.4442G	100.11	Inf	-Inf	69.30	3	Vertical	195	2.80	-	28.39	2.42	-
PK	2.4902G	60.08	74.00	-13.92	29.07	3	Vertical	195	2.80	-	28.56	2.45	-
AV	2.4846G	47.58	54.00	-6.42	16.60	3	Vertical	195	2.80	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2437MHz_TX



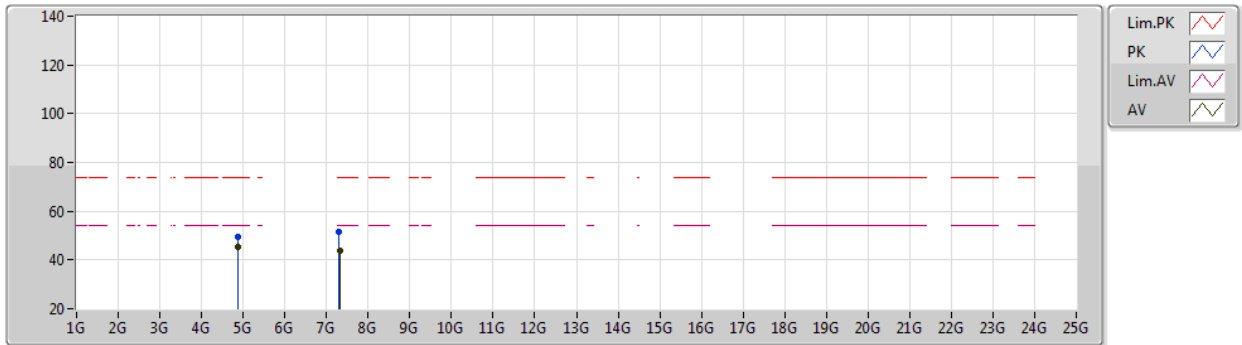
EUT Z_2TX
Setting 50/44
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	64.09	74.00	-9.91	33.38	3	Horizontal	113	1.63	-	28.30	2.41	-
AV	2.3862G	49.08	54.00	-4.92	18.37	3	Horizontal	113	1.63	-	28.30	2.41	-
PK	2.4442G	116.09	Inf	-Inf	85.28	3	Horizontal	113	1.63	-	28.39	2.42	-
AV	2.4442G	106.53	Inf	-Inf	75.72	3	Horizontal	113	1.63	-	28.39	2.42	-
PK	2.485G	67.93	74.00	-6.07	36.95	3	Horizontal	113	1.63	-	28.54	2.44	-
AV	2.4854G	50.86	54.00	-3.14	19.88	3	Horizontal	113	1.63	-	28.54	2.44	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2437MHz_TX



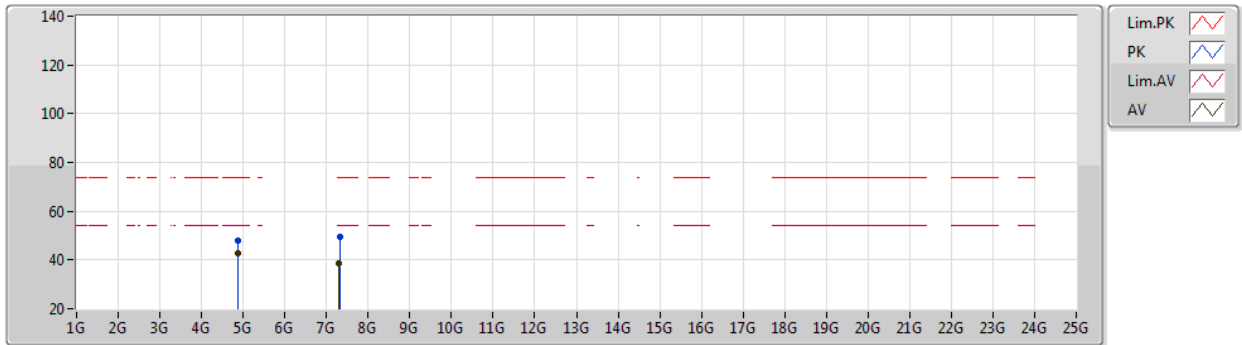
EUT_Z_2TX
Setting 50/44
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87395G	49.45	74.00	-24.55	43.44	3	Vertical	161	2.33	-	33.10	4.70	31.79
AV	4.87391G	45.10	54.00	-8.90	39.09	3	Vertical	161	2.33	-	33.10	4.70	31.79
PK	7.30955G	51.71	74.00	-22.29	41.96	3	Vertical	44	2.85	-	36.42	5.75	32.42
AV	7.31033G	43.82	54.00	-10.18	34.06	3	Vertical	44	2.85	-	36.42	5.76	32.42

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2437MHz_TX



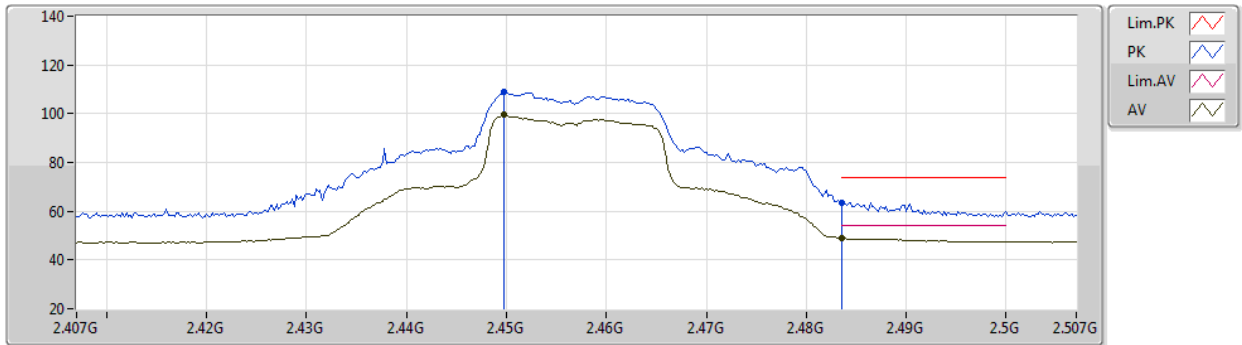
EUT_Z_2TX
Setting 50/44
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87386G	47.75	74.00	-26.25	41.74	3	Horizontal	89	2.15	-	33.10	4.70	31.79
AV	4.87403G	42.75	54.00	-11.25	36.74	3	Horizontal	89	2.15	-	33.10	4.70	31.79
PK	7.31256G	49.63	74.00	-24.37	39.87	3	Horizontal	271	1.83	-	36.43	5.76	32.43
AV	7.31021G	38.45	54.00	-15.55	28.69	3	Horizontal	271	1.83	-	36.42	5.76	32.42

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2457MHz_TX



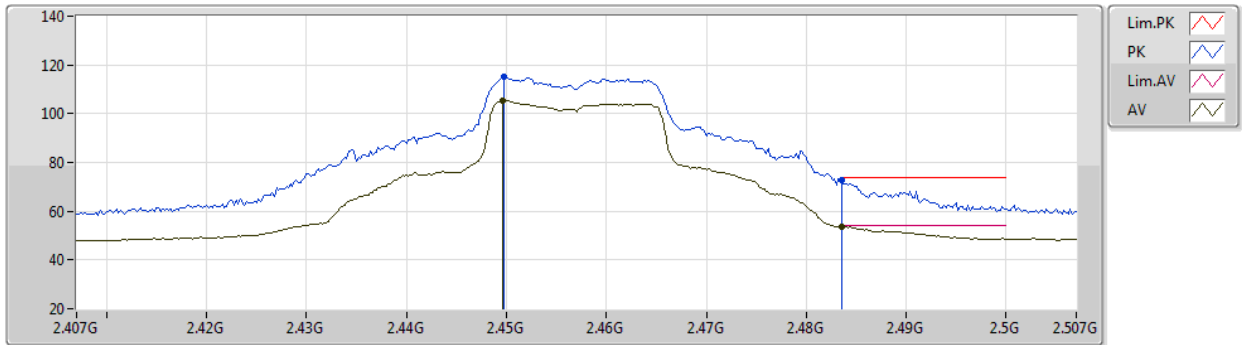
EUT_Z_2TX
Setting 31/28
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4498G	108.89	Inf	-Inf	78.07	3	Vertical	197	2.50	-	28.40	2.42	-
AV	2.4498G	99.42	Inf	-Inf	68.60	3	Vertical	197	2.50	-	28.40	2.42	-
PK	2.4835G	63.55	74.00	-10.45	32.58	3	Vertical	197	2.50	-	28.53	2.44	-
AV	2.4835G	49.04	54.00	-4.96	18.07	3	Vertical	197	2.50	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

10/03/2021



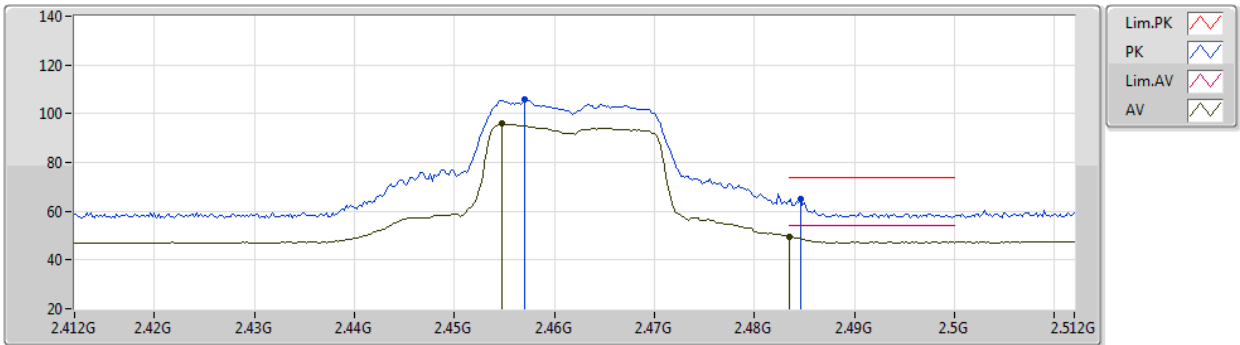
EUT_Z_2TX
Setting 31/28
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4498G	115.29	Inf	-Inf	84.47	3	Horizontal	114	1.67	-	28.40	2.42	-
AV	2.4496G	105.36	Inf	-Inf	74.54	3	Horizontal	114	1.67	-	28.40	2.42	-
PK	2.4835G	72.77	74.00	-1.23	41.80	3	Horizontal	114	1.67	-	28.53	2.44	-
AV	2.4836G	53.76	54.00	-0.24	22.79	3	Horizontal	114	1.67	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2462MHz_TX



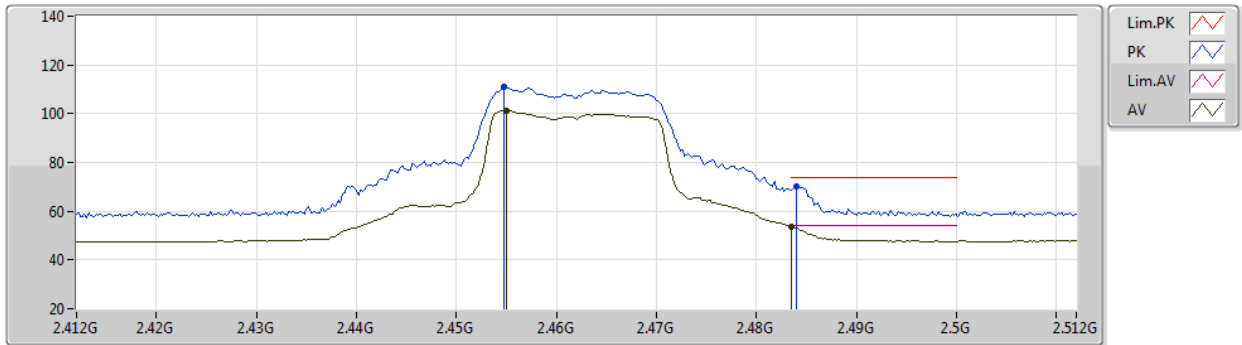
EUT Z_2TX
Setting 16/13
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.457G	105.82	Inf	-Inf	74.96	3	Vertical	195	2.29	-	28.43	2.43	-
AV	2.4548G	95.78	Inf	-Inf	64.93	3	Vertical	195	2.29	-	28.42	2.43	-
PK	2.4846G	65.05	74.00	-8.95	34.07	3	Vertical	195	2.29	-	28.54	2.44	-
AV	2.4835G	49.58	54.00	-4.42	18.61	3	Vertical	195	2.29	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2462MHz_TX



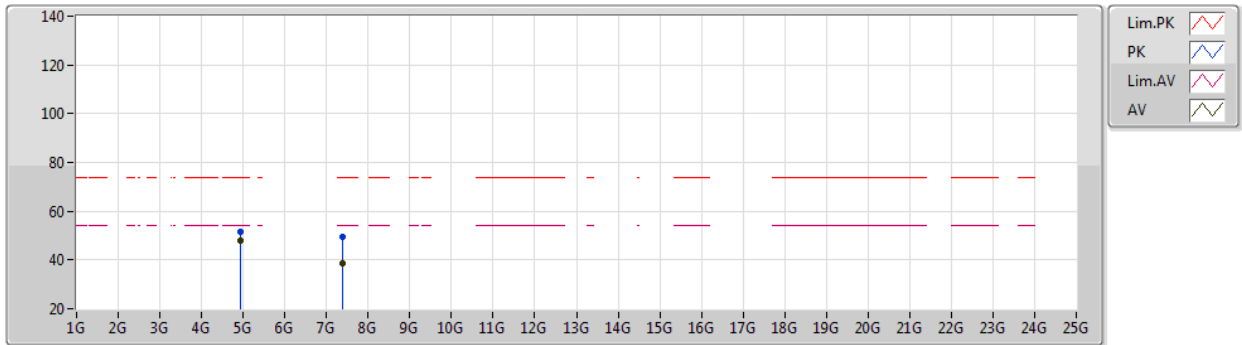
EUT Z_2TX
Setting 16/13
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4548G	111.03	Inf	-Inf	80.18	3	Horizontal	112	1.08	-	28.42	2.43	-
AV	2.455G	101.43	Inf	-Inf	70.58	3	Horizontal	112	1.08	-	28.42	2.43	-
PK	2.484G	70.16	74.00	-3.84	39.18	3	Horizontal	112	1.08	-	28.54	2.44	-
AV	2.4835G	53.84	54.00	-0.16	22.87	3	Horizontal	112	1.08	-	28.53	2.44	-

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2462MHz_TX



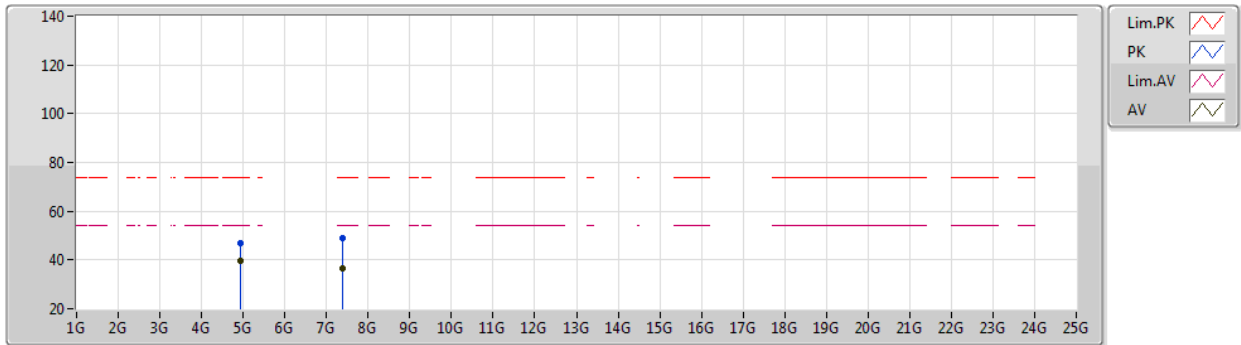
EUT_Z_2TX
Setting 16/13
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.924G	51.51	74.00	-22.49	45.42	3	Vertical	159	2.34	-	33.20	4.70	31.81
AV	4.92407G	47.94	54.00	-6.06	41.85	3	Vertical	159	2.34	-	33.20	4.70	31.81
PK	7.38789G	49.50	74.00	-24.50	39.75	3	Vertical	56	2.08	-	36.42	5.79	32.46
AV	7.38528G	38.57	54.00	-15.43	28.80	3	Vertical	56	2.08	-	36.43	5.79	32.45

802.11g_Nss1,(6Mbps)_2TX

10/03/2021

2462MHz_TX



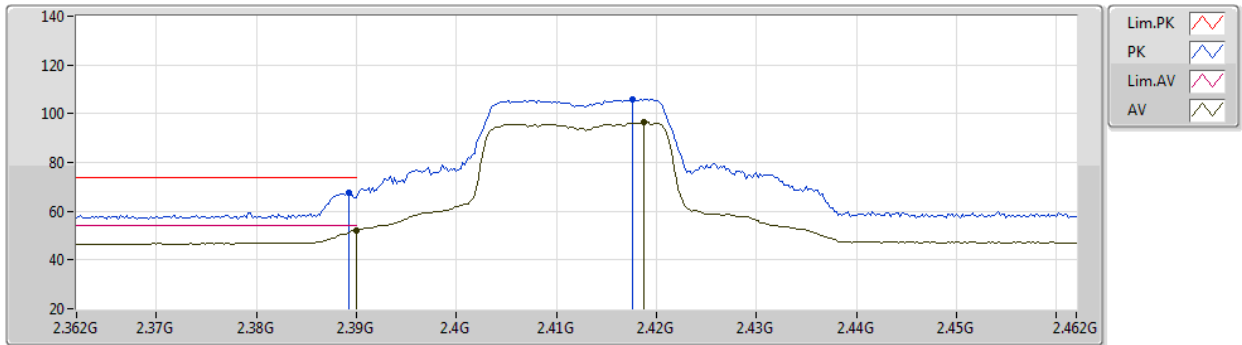
EUT_Z_2TX
Setting 16/13
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9238G	46.83	74.00	-27.17	40.74	3	Horizontal	94	2.16	-	33.20	4.70	31.81
AV	4.92403G	39.61	54.00	-14.39	33.52	3	Horizontal	94	2.16	-	33.20	4.70	31.81
PK	7.38701G	48.81	74.00	-25.19	39.04	3	Horizontal	215	2.85	-	36.43	5.79	32.45
AV	7.38544G	36.46	54.00	-17.54	26.69	3	Horizontal	215	2.85	-	36.43	5.79	32.45

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2412MHz_TX



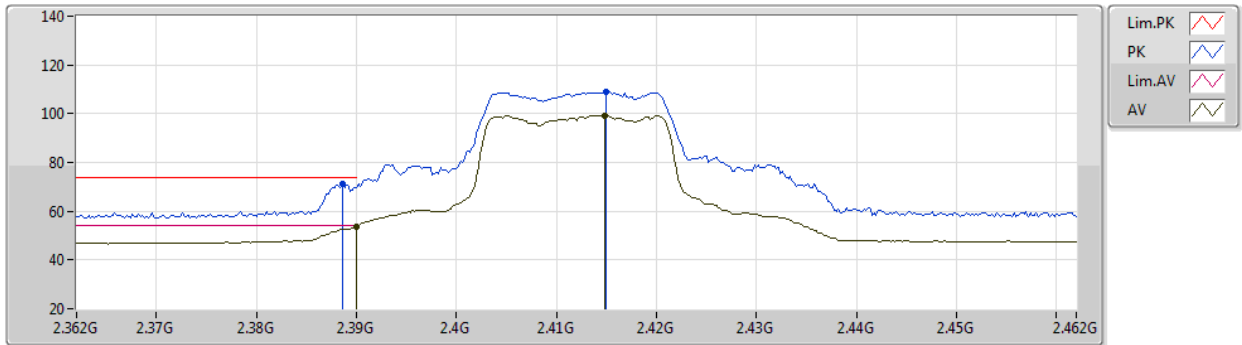
EUT Z_2TX
Setting 22/20
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	67.35	74.00	-6.65	36.64	3	Vertical	209	2.85	-	28.30	2.41	-
AV	2.39G	52.02	54.00	-1.98	21.31	3	Vertical	209	2.85	-	28.30	2.41	-
PK	2.4176G	106.01	Inf	-Inf	75.26	3	Vertical	209	2.85	-	28.34	2.41	-
AV	2.4188G	96.39	Inf	-Inf	65.64	3	Vertical	209	2.85	-	28.34	2.41	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2412MHz_TX



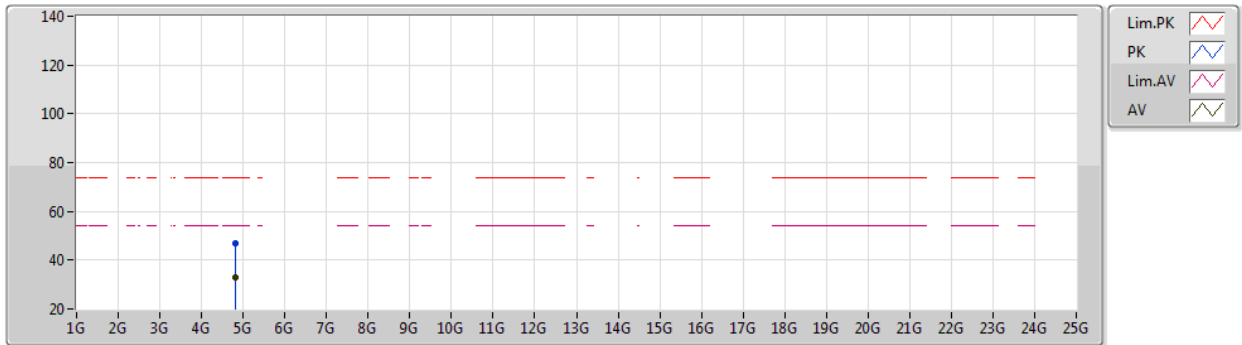
EUT Z_2TX
Setting 22/20
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	71.42	74.00	-2.58	40.71	3	Horizontal	189	1.29	-	28.30	2.41	-
AV	2.39G	53.54	54.00	-0.46	22.83	3	Horizontal	189	1.29	-	28.30	2.41	-
PK	2.415G	109.02	Inf	-Inf	78.28	3	Horizontal	189	1.29	-	28.33	2.41	-
AV	2.4148G	99.28	Inf	-Inf	68.54	3	Horizontal	189	1.29	-	28.33	2.41	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2412MHz_TX



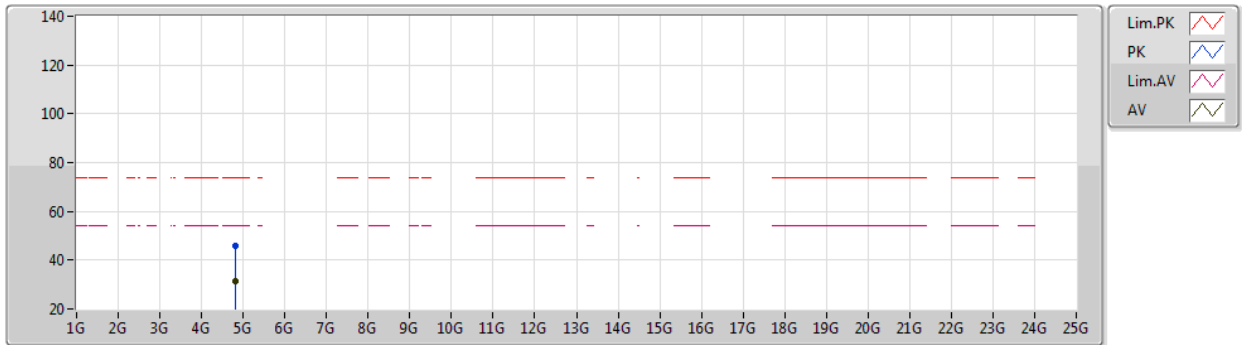
EUT Z_2TX
Setting 22/20
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82516G	47.02	74.00	-26.98	41.20	3	Vertical	165	2.60	-	32.90	4.70	31.78
AV	4.82643G	32.80	54.00	-21.20	26.97	3	Vertical	165	2.60	-	32.91	4.70	31.78

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2412MHz_TX



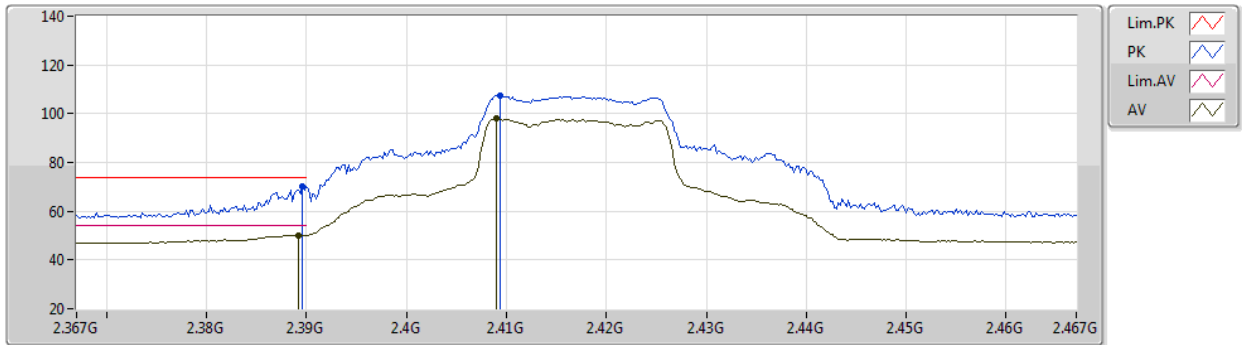
EUT Z_2TX
Setting 22/20
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.82412G	45.99	74.00	-28.01	40.17	3	Horizontal	196	2.10	-	32.90	4.70	31.78	
AV	4.82379G	31.34	54.00	-22.66	25.52	3	Horizontal	196	2.10	-	32.90	4.70	31.78	

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2417MHz_TX



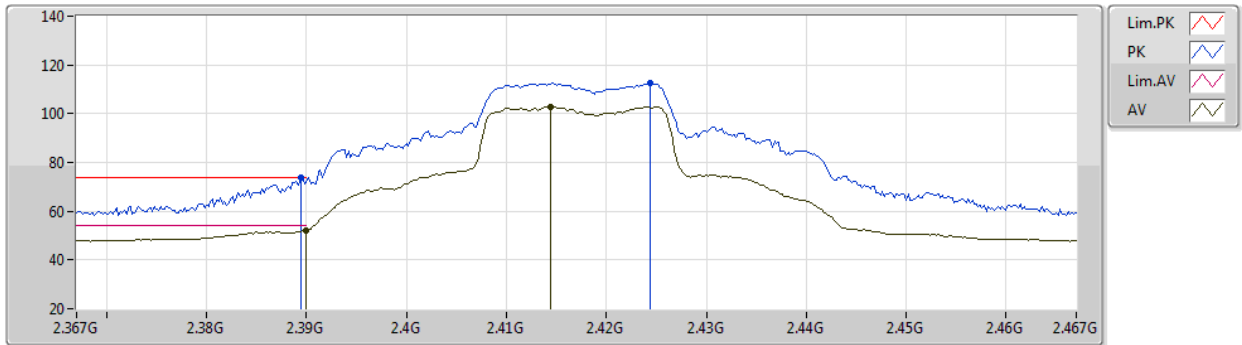
EUT_Z_2TX
Setting 38/36
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	70.31	74.00	-3.69	39.60	3	Vertical	207	2.90	-	28.30	2.41	-
AV	2.3892G	50.15	54.00	-3.85	19.44	3	Vertical	207	2.90	-	28.30	2.41	-
PK	2.4094G	107.43	Inf	-Inf	76.71	3	Vertical	207	2.90	-	28.32	2.40	-
AV	2.409G	98.00	Inf	-Inf	67.28	3	Vertical	207	2.90	-	28.32	2.40	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2417MHz_TX



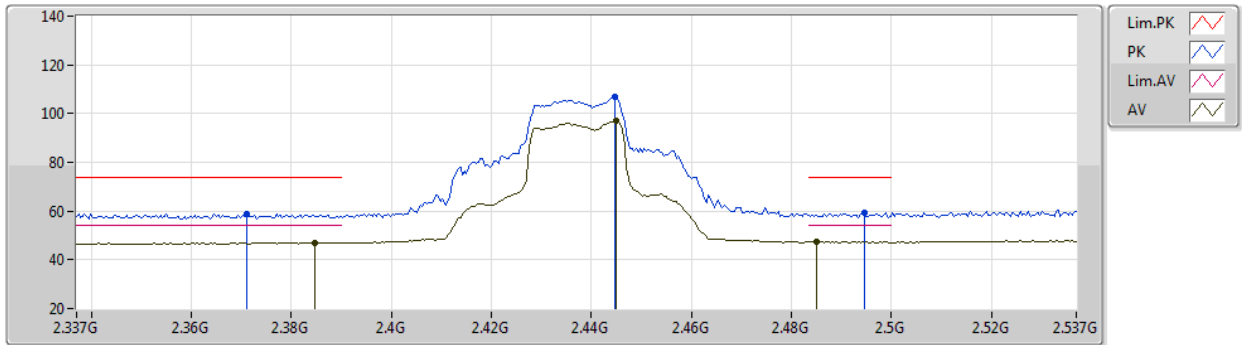
EUT Z_2TX
Setting 38/36
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	73.64	74.00	-0.36	42.93	3	Horizontal	173	1.93	-	28.30	2.41	-
AV	2.39G	52.31	54.00	-1.69	21.60	3	Horizontal	173	1.93	-	28.30	2.41	-
PK	2.4244G	112.66	Inf	-Inf	81.90	3	Horizontal	173	1.93	-	28.35	2.41	-
AV	2.4144G	103.00	Inf	-Inf	72.26	3	Horizontal	173	1.93	-	28.33	2.41	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



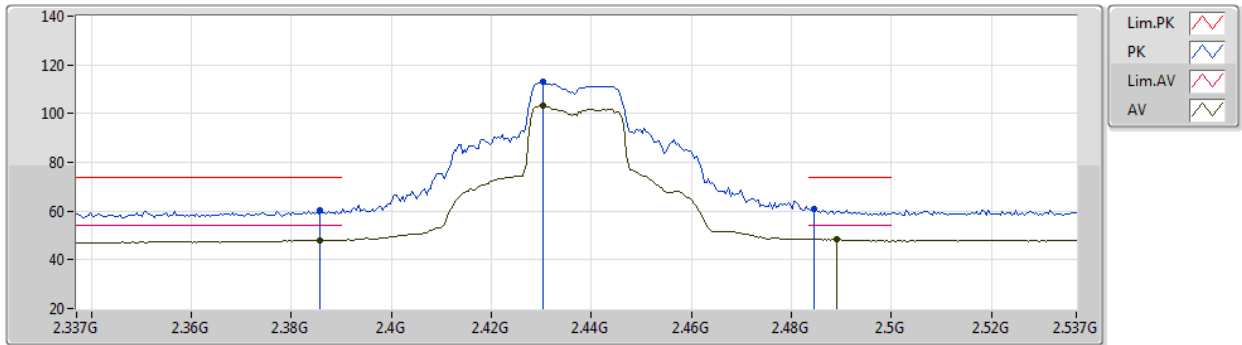
EUT Z_2TX
Setting 50/48
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.371G	58.85	74.00	-15.15	28.14	3	Vertical	169	2.51	-	28.30	2.41	-
AV	2.3846G	47.03	54.00	-6.97	16.32	3	Vertical	169	2.51	-	28.30	2.41	-
PK	2.4446G	106.93	Inf	-Inf	76.12	3	Vertical	169	2.51	-	28.39	2.42	-
AV	2.445G	97.26	Inf	-Inf	66.45	3	Vertical	169	2.51	-	28.39	2.42	-
PK	2.4946G	59.21	74.00	-14.79	28.18	3	Vertical	169	2.51	-	28.58	2.45	-
AV	2.485G	47.42	54.00	-6.58	16.44	3	Vertical	169	2.51	-	28.54	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX

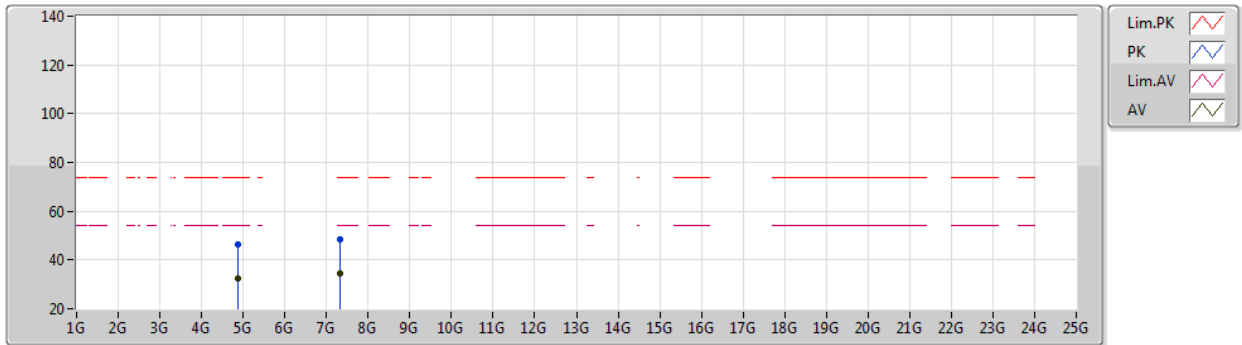

EUT Z_2TX
Setting 50/48
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	60.41	74.00	-13.59	29.70	3	Horizontal	113	1.87	-	28.30	2.41	-
AV	2.3858G	48.18	54.00	-5.82	17.47	3	Horizontal	113	1.87	-	28.30	2.41	-
PK	2.4302G	112.95	Inf	-Inf	82.17	3	Horizontal	113	1.87	-	28.36	2.42	-
AV	2.4302G	103.16	Inf	-Inf	72.38	3	Horizontal	113	1.87	-	28.36	2.42	-
PK	2.4846G	60.91	74.00	-13.09	29.93	3	Horizontal	113	1.87	-	28.54	2.44	-
AV	2.489G	48.61	54.00	-5.39	17.61	3	Horizontal	113	1.87	-	28.56	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



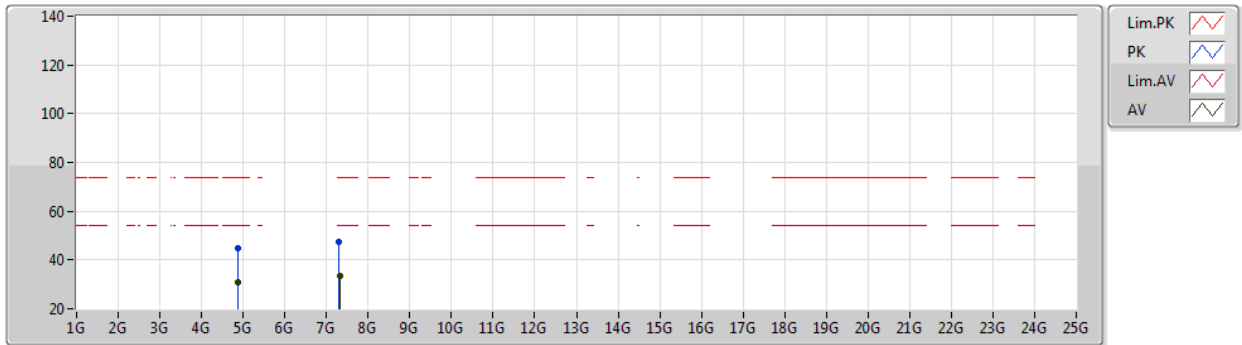
EUT Z_2TX
Setting 50/48
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8765G	46.14	74.00	-27.86	40.13	3	Vertical	160	2.72	-	33.11	4.70	31.80	
AV	4.87606G	32.23	54.00	-21.77	26.23	3	Vertical	160	2.72	-	33.10	4.70	31.80	
PK	7.31094G	48.47	74.00	-25.53	38.71	3	Vertical	19	2.04	-	36.42	5.76	32.42	
AV	7.31128G	34.61	54.00	-19.39	24.85	3	Vertical	19	2.04	-	36.42	5.76	32.42	

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



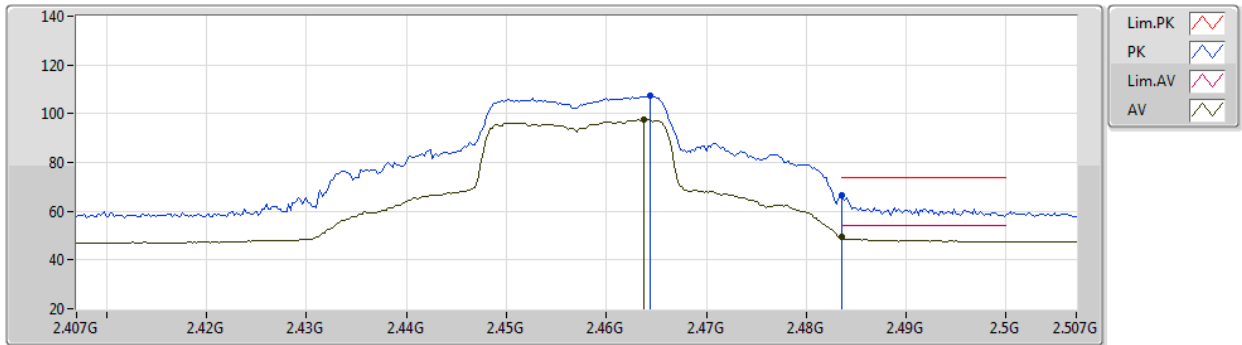
EUT_Z_2TX
Setting 50/48
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87278G	44.69	74.00	-29.31	38.69	3	Horizontal	81	2.16	-	33.09	4.70	31.79
AV	4.87362G	31.04	54.00	-22.96	25.04	3	Horizontal	81	2.16	-	33.09	4.70	31.79
PK	7.30856G	47.52	74.00	-26.48	37.77	3	Horizontal	324	1.80	-	36.42	5.75	32.42
AV	7.31237G	33.59	54.00	-20.41	23.83	3	Horizontal	324	1.80	-	36.42	5.76	32.42

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2457MHz_TX



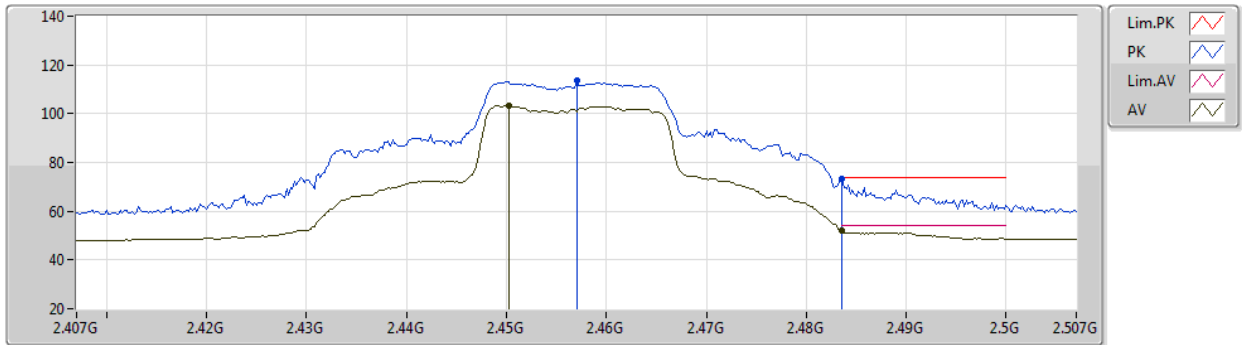
EUT Z_2TX
Setting 50/48
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4644G	107.23	Inf	-Inf	76.34	3	Vertical	206	2.72	-	28.46	2.43	-
AV	2.4638G	97.78	Inf	-Inf	66.89	3	Vertical	206	2.72	-	28.46	2.43	-
PK	2.4836G	66.36	74.00	-7.64	35.39	3	Vertical	206	2.72	-	28.53	2.44	-
AV	2.4835G	49.28	54.00	-4.72	18.31	3	Vertical	206	2.72	-	28.53	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2457MHz_TX



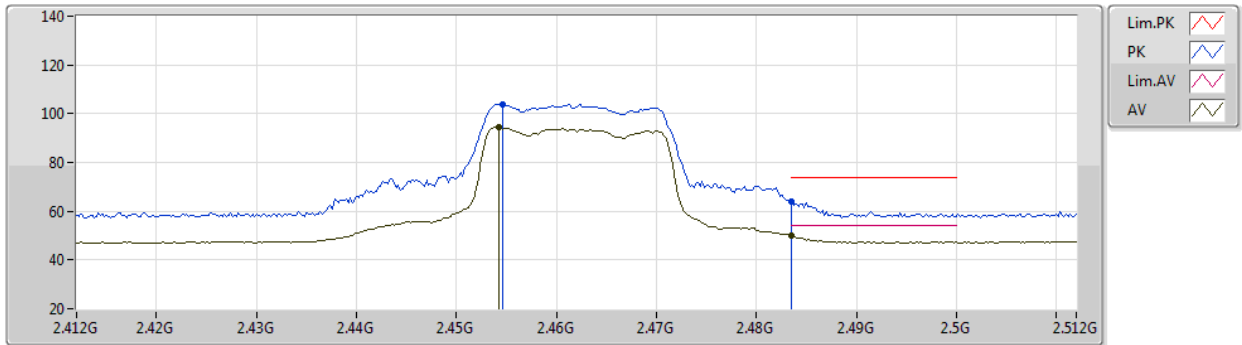
EUT_Z_2TX
Setting 50/48
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.457G	113.41	Inf	-Inf	82.55	3	Horizontal	115	1.10	-	28.43	2.43	-
AV	2.4502G	103.37	Inf	-Inf	72.54	3	Horizontal	115	1.10	-	28.40	2.43	-
PK	2.4835G	73.16	74.00	-0.84	42.19	3	Horizontal	115	1.10	-	28.53	2.44	-
AV	2.4835G	51.93	54.00	-2.07	20.96	3	Horizontal	115	1.10	-	28.53	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2462MHz_TX



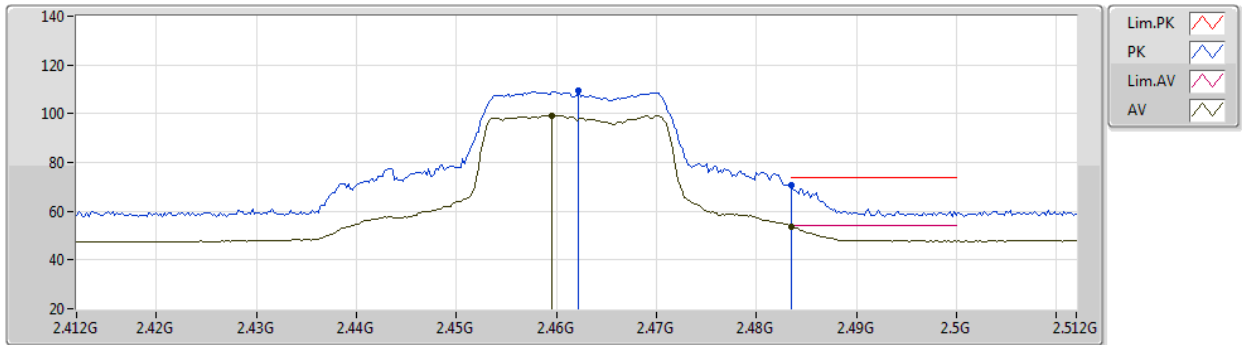
EUT Z_2TX
Setting 20/18
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4546G	103.90	Inf	-Inf	73.05	3	Vertical	206	2.80	-	28.42	2.43	-
AV	2.4542G	94.49	Inf	-Inf	63.64	3	Vertical	206	2.80	-	28.42	2.43	-
PK	2.4835G	64.22	74.00	-9.78	33.25	3	Vertical	206	2.80	-	28.53	2.44	-
AV	2.4835G	49.79	54.00	-4.21	18.82	3	Vertical	206	2.80	-	28.53	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2462MHz_TX



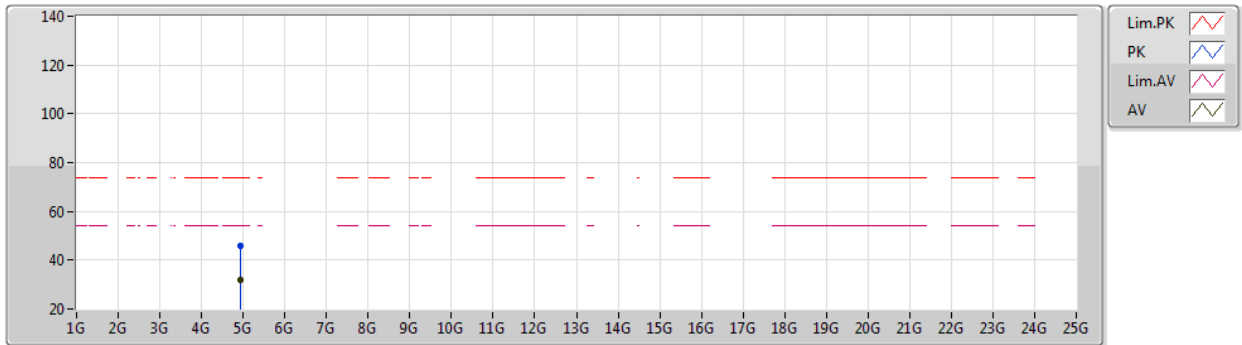
EUT Z_2TX
Setting 20/18
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4622G	109.69	Inf	-Inf	78.81	3	Horizontal	114	1.11	-	28.45	2.43	-
AV	2.4596G	99.31	Inf	-Inf	68.44	3	Horizontal	114	1.11	-	28.44	2.43	-
PK	2.4835G	70.44	74.00	-3.56	39.47	3	Horizontal	114	1.11	-	28.53	2.44	-
AV	2.4835G	53.74	54.00	-0.26	22.77	3	Horizontal	114	1.11	-	28.53	2.44	-

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2462MHz_TX



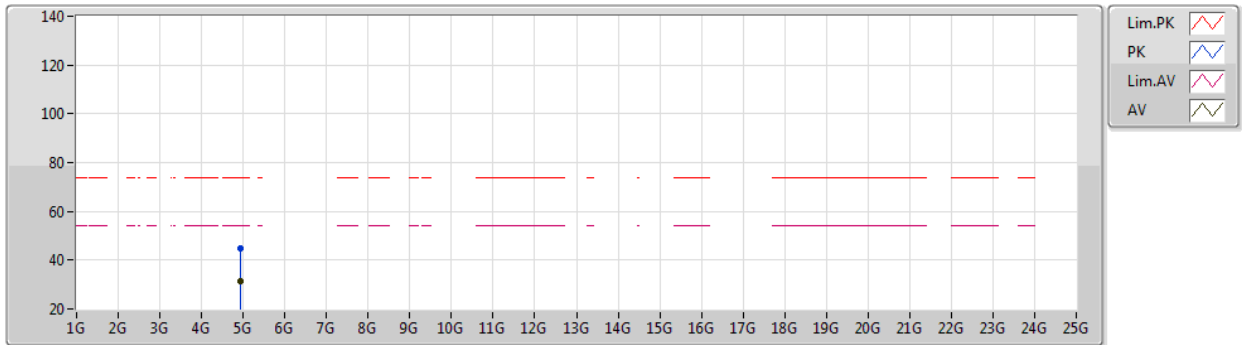
EUT Z_2TX
Setting 20/18
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92562G	45.80	74.00	-28.20	39.71	3	Vertical	167	2.36	-	33.20	4.70	31.81
AV	4.92619G	32.07	54.00	-21.93	25.98	3	Vertical	167	2.36	-	33.20	4.70	31.81

802.11n HT20_Nss1,(MCS0)_2TX

10/03/2021

2462MHz_TX



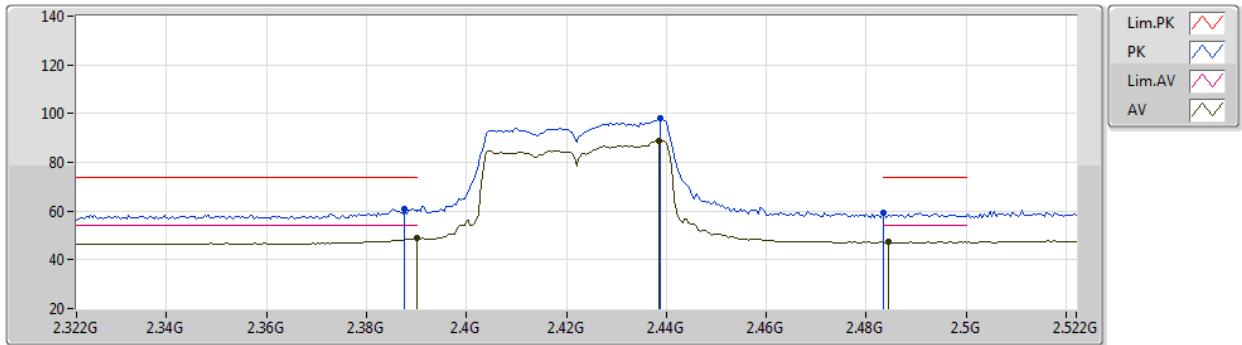
EUT_Z_2TX
Setting 20/18
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.925G	44.88	74.00	-29.12	38.79	3	Horizontal	52	2.85	-	33.20	4.70	31.81
AV	4.92383G	31.19	54.00	-22.81	25.10	3	Horizontal	52	2.85	-	33.20	4.70	31.81

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2422MHz_TX



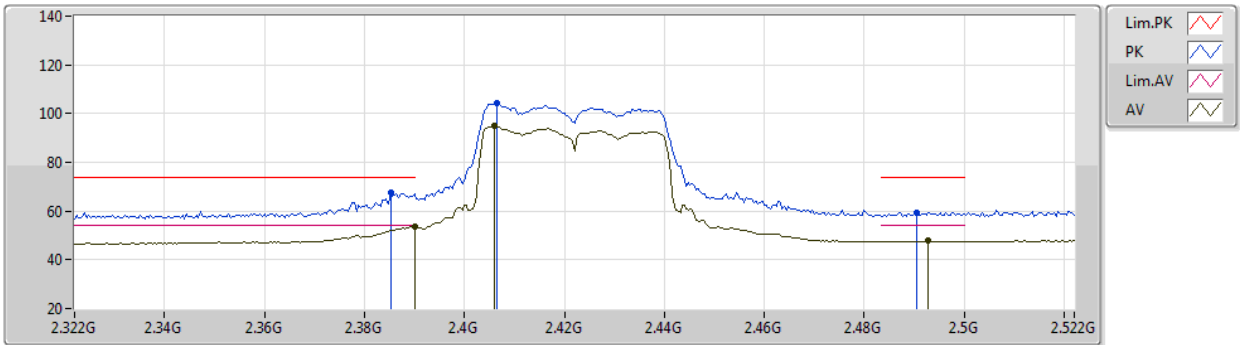
EUT_Z_2TX
Setting 15/13
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3876G	61.07	74.00	-12.93	30.36	3	Vertical	182	2.49	-	28.30	2.41	-
AV	2.39G	48.75	54.00	-5.25	18.04	3	Vertical	182	2.49	-	28.30	2.41	-
PK	2.4388G	98.01	Inf	-Inf	67.21	3	Vertical	182	2.49	-	28.38	2.42	-
AV	2.4384G	88.90	Inf	-Inf	58.10	3	Vertical	182	2.49	-	28.38	2.42	-
PK	2.4835G	59.56	74.00	-14.44	28.59	3	Vertical	182	2.49	-	28.53	2.44	-
AV	2.4844G	47.38	54.00	-6.62	16.40	3	Vertical	182	2.49	-	28.54	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2422MHz_TX



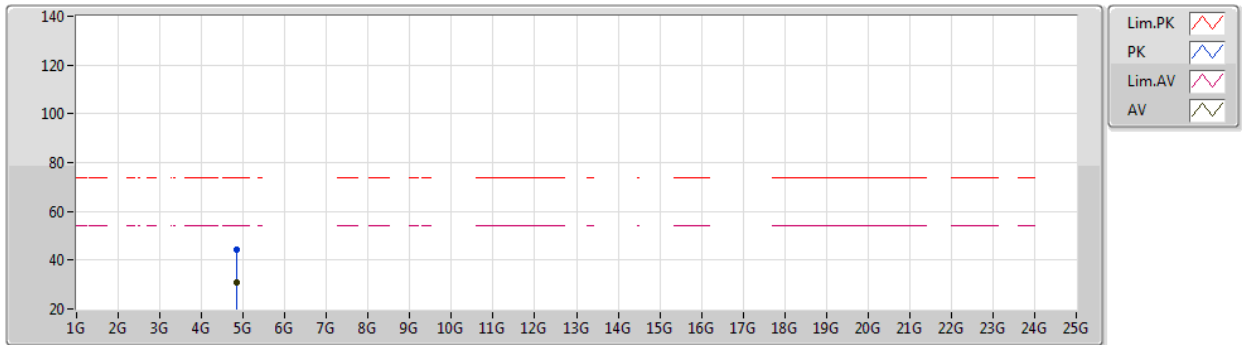
EUT Z_2TX
Setting 15/13
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3852G	67.81	74.00	-6.19	37.10	3	Horizontal	112	1.90	-	28.30	2.41	-
AV	2.39G	53.58	54.00	-0.42	22.87	3	Horizontal	112	1.90	-	28.30	2.41	-
PK	2.4064G	104.23	Inf	-Inf	73.52	3	Horizontal	112	1.90	-	28.31	2.40	-
AV	2.406G	95.01	Inf	-Inf	64.30	3	Horizontal	112	1.90	-	28.31	2.40	-
PK	2.4904G	59.53	74.00	-14.47	28.52	3	Horizontal	112	1.90	-	28.56	2.45	-
AV	2.4928G	47.72	54.00	-6.28	16.70	3	Horizontal	112	1.90	-	28.57	2.45	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2422MHz_TX



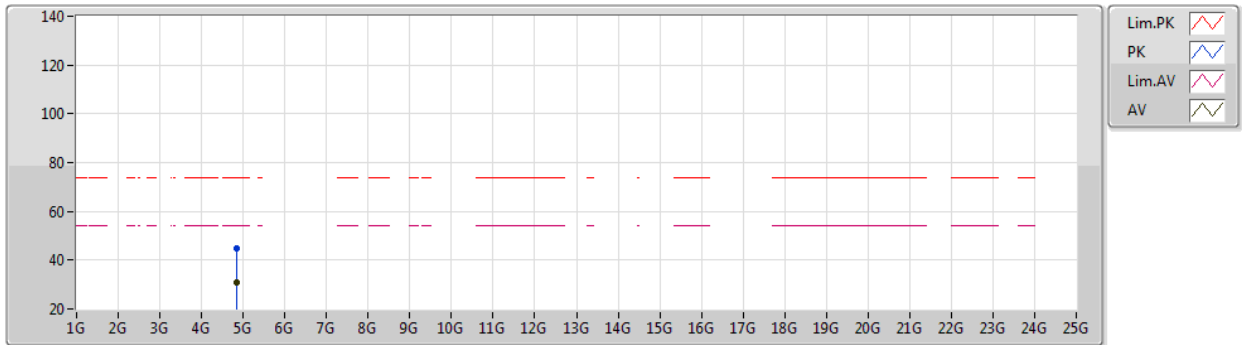
EUT_Z_2TX
Setting 15/13
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84304G	44.38	74.00	-29.62	38.49	3	Vertical	179	2.85	-	32.97	4.70	31.78
AV	4.84535G	30.98	54.00	-23.02	25.08	3	Vertical	179	2.85	-	32.98	4.70	31.78

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2422MHz_TX



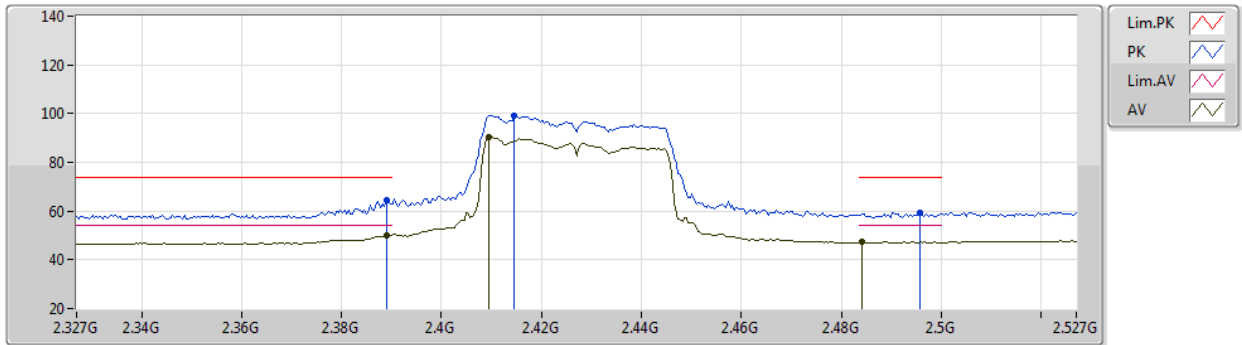
EUT Z_2TX
Setting 15/13
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84533G	44.87	74.00	-29.13	38.97	3	Horizontal	202	1.79	-	32.98	4.70	31.78
AV	4.84339G	30.69	54.00	-23.31	24.80	3	Horizontal	202	1.79	-	32.97	4.70	31.78

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2427MHz_TX



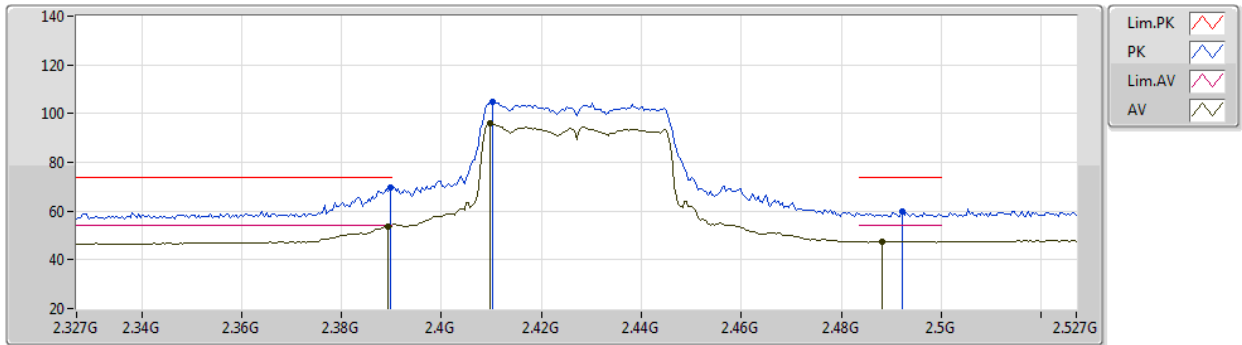
EUT_Z_2TX
Setting 18/16
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	64.58	74.00	-9.42	33.87	3	Vertical	177	2.90	-	28.30	2.41	-
AV	2.389G	49.93	54.00	-4.07	19.22	3	Vertical	177	2.90	-	28.30	2.41	-
PK	2.4146G	99.33	Inf	-Inf	68.59	3	Vertical	177	2.90	-	28.33	2.41	-
AV	2.4094G	90.39	Inf	-Inf	59.67	3	Vertical	177	2.90	-	28.32	2.40	-
PK	2.4958G	59.46	74.00	-14.54	28.43	3	Vertical	177	2.90	-	28.58	2.45	-
AV	2.4842G	47.49	54.00	-6.51	16.51	3	Vertical	177	2.90	-	28.54	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2427MHz_TX



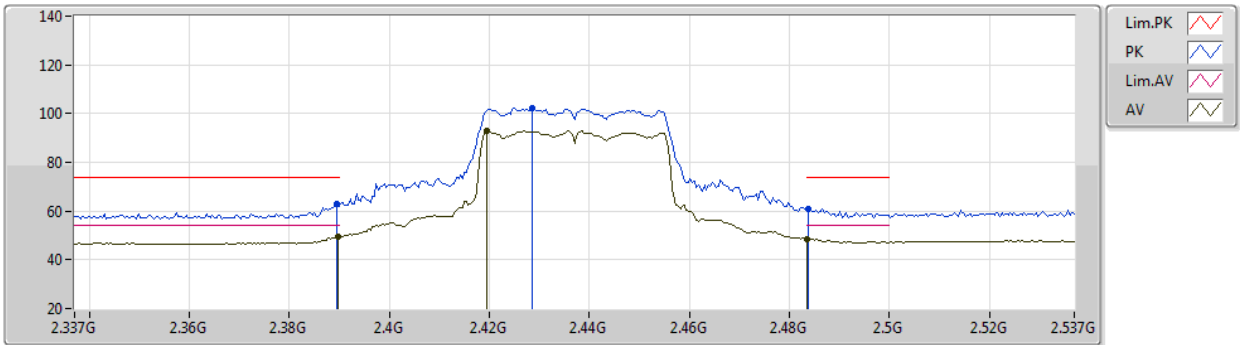
EUT Z_2TX
Setting 18/16
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	69.64	74.00	-4.36	38.93	3	Horizontal	193	1.92	-	28.30	2.41	-
AV	2.3894G	53.85	54.00	-0.15	23.14	3	Horizontal	193	1.92	-	28.30	2.41	-
PK	2.4102G	104.84	Inf	-Inf	74.11	3	Horizontal	193	1.92	-	28.32	2.41	-
AV	2.4098G	95.94	Inf	-Inf	65.22	3	Horizontal	193	1.92	-	28.32	2.40	-
PK	2.4922G	59.83	74.00	-14.17	28.81	3	Horizontal	193	1.92	-	28.57	2.45	-
AV	2.4882G	47.55	54.00	-6.45	16.56	3	Horizontal	193	1.92	-	28.55	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



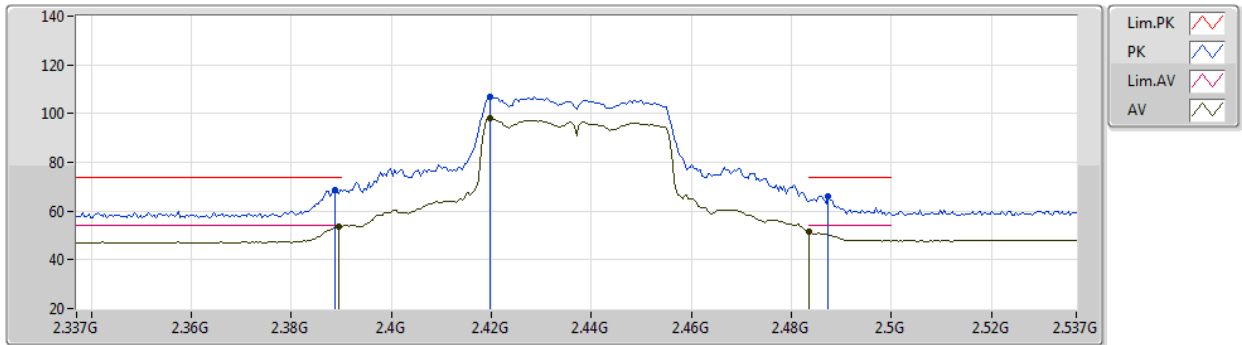
EUT Z_2TX
Setting 24/22
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	62.96	74.00	-11.04	32.25	3	Vertical	205	2.82	-	28.30	2.41	-
AV	2.3898G	49.53	54.00	-4.47	18.82	3	Vertical	205	2.82	-	28.30	2.41	-
PK	2.4286G	102.27	Inf	-Inf	71.50	3	Vertical	205	2.82	-	28.36	2.41	-
AV	2.4194G	92.85	Inf	-Inf	62.10	3	Vertical	205	2.82	-	28.34	2.41	-
PK	2.4838G	60.83	74.00	-13.17	29.85	3	Vertical	205	2.82	-	28.54	2.44	-
AV	2.4835G	48.58	54.00	-5.42	17.61	3	Vertical	205	2.82	-	28.53	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



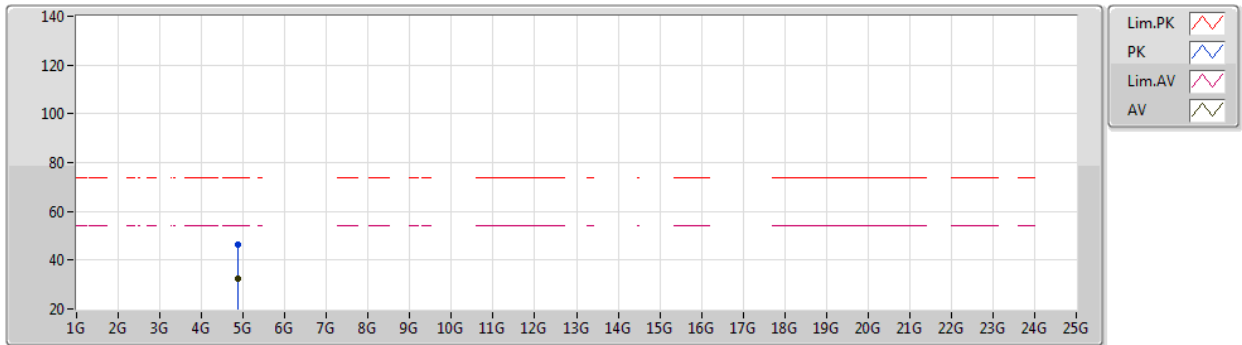
EUT Z_2TX
Setting 24/22
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	68.77	74.00	-5.23	38.06	3	Horizontal	189	1.33	-	28.30	2.41	-
AV	2.3894G	53.77	54.00	-0.23	23.06	3	Horizontal	189	1.33	-	28.30	2.41	-
PK	2.4198G	106.96	Inf	-Inf	76.21	3	Horizontal	189	1.33	-	28.34	2.41	-
AV	2.4198G	98.01	Inf	-Inf	67.26	3	Horizontal	189	1.33	-	28.34	2.41	-
PK	2.4874G	66.07	74.00	-7.93	35.08	3	Horizontal	189	1.33	-	28.55	2.44	-
AV	2.4835G	51.50	54.00	-2.50	20.53	3	Horizontal	189	1.33	-	28.53	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



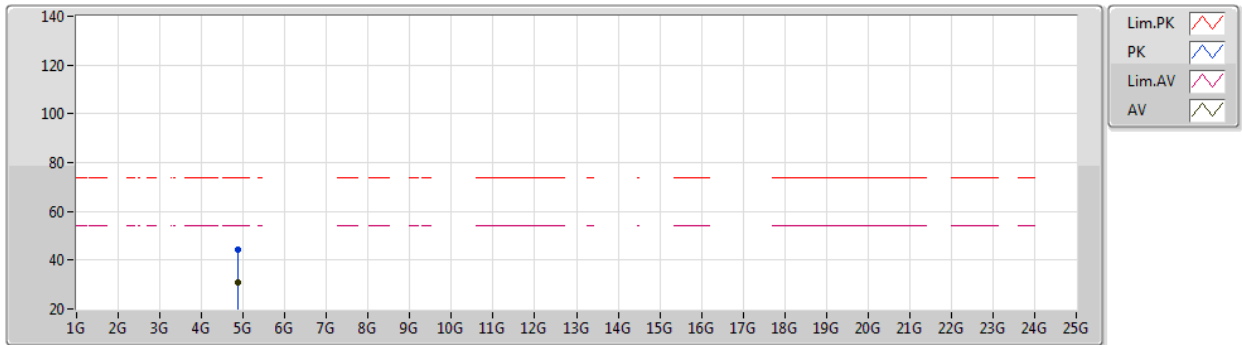
EUT Z_2TX
Setting 24/22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87471G	46.17	74.00	-27.83	40.16	3	Vertical	157	2.52	-	33.10	4.70	31.79
AV	4.87386G	32.46	54.00	-21.54	26.45	3	Vertical	157	2.52	-	33.10	4.70	31.79

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2437MHz_TX



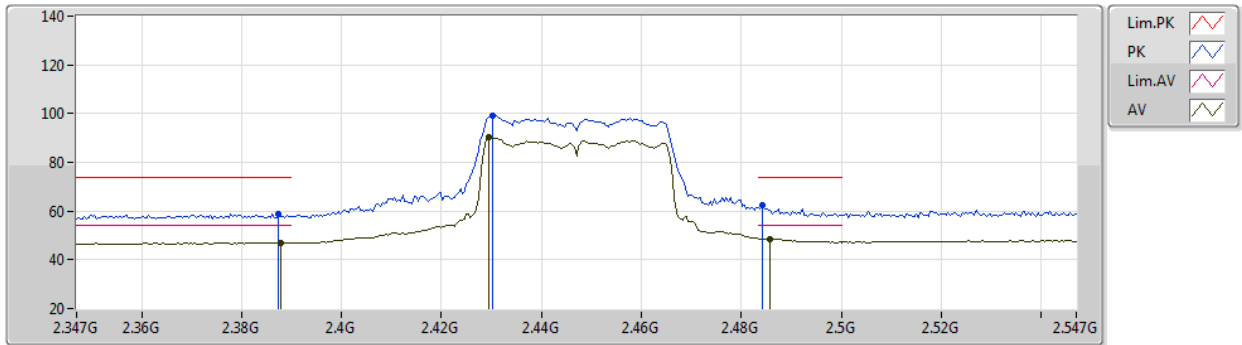
EUT_Z_2TX
Setting 24/22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.873777G	44.21	74.00	-29.79	38.20	3	Horizontal	182	1.80	-	33.10	4.70	31.79	
AV	4.87176G	30.64	54.00	-23.36	24.64	3	Horizontal	182	1.80	-	33.09	4.70	31.79	

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2447MHz_TX



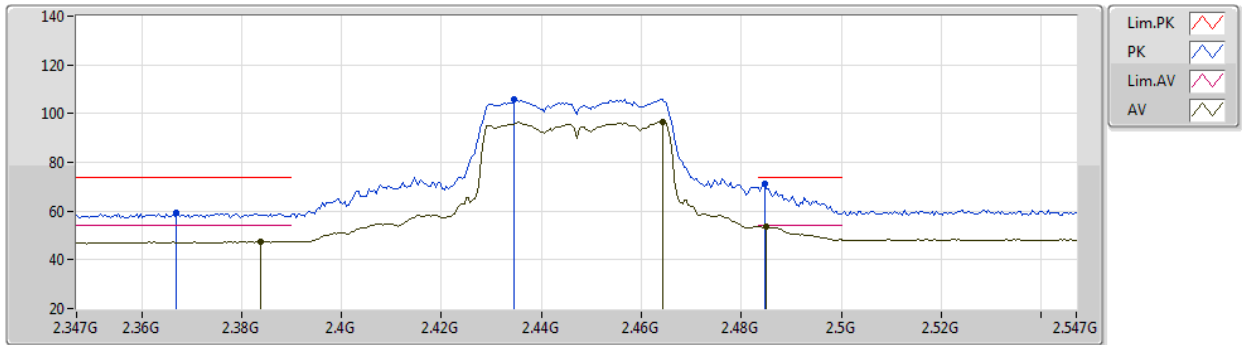
EUT_Z_2TX
Setting 19/17
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	58.92	74.00	-15.08	28.21	3	Vertical	167	2.57	-	28.30	2.41	-
AV	2.3878G	46.88	54.00	-7.12	16.17	3	Vertical	167	2.57	-	28.30	2.41	-
PK	2.4302G	99.37	Inf	-Inf	68.59	3	Vertical	167	2.57	-	28.36	2.42	-
AV	2.4294G	90.33	Inf	-Inf	59.56	3	Vertical	167	2.57	-	28.36	2.41	-
PK	2.4842G	62.35	74.00	-11.65	31.37	3	Vertical	167	2.57	-	28.54	2.44	-
AV	2.4858G	48.70	54.00	-5.30	17.72	3	Vertical	167	2.57	-	28.54	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2447MHz_TX

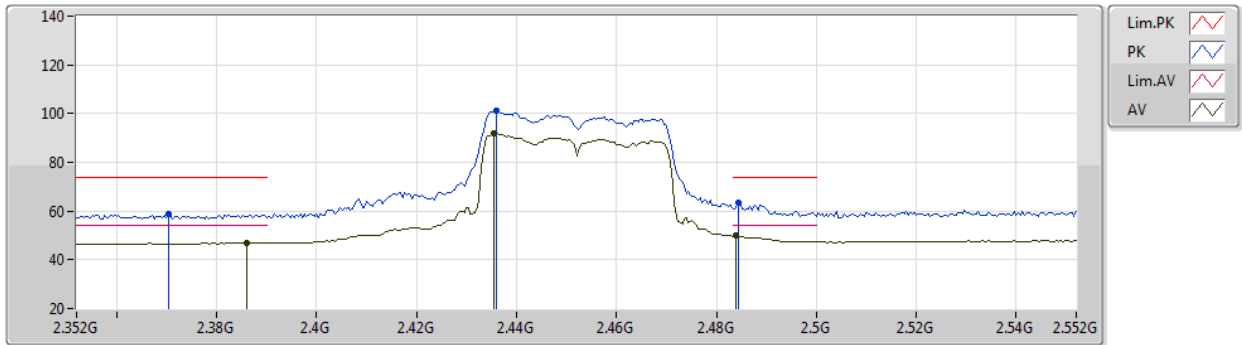

EUT Z_2TX
Setting 19/17
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.367G	59.44	74.00	-14.56	28.72	3	Horizontal	114	1.11	-	28.30	2.42	-
AV	2.3838G	47.44	54.00	-6.56	16.73	3	Horizontal	114	1.11	-	28.30	2.41	-
PK	2.4346G	106.12	Inf	-Inf	75.33	3	Horizontal	114	1.11	-	28.37	2.42	-
AV	2.4642G	96.52	Inf	-Inf	65.63	3	Horizontal	114	1.11	-	28.46	2.43	-
PK	2.4846G	71.02	74.00	-2.98	40.04	3	Horizontal	114	1.11	-	28.54	2.44	-
AV	2.485G	53.63	54.00	-0.37	22.65	3	Horizontal	114	1.11	-	28.54	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2452MHz_TX



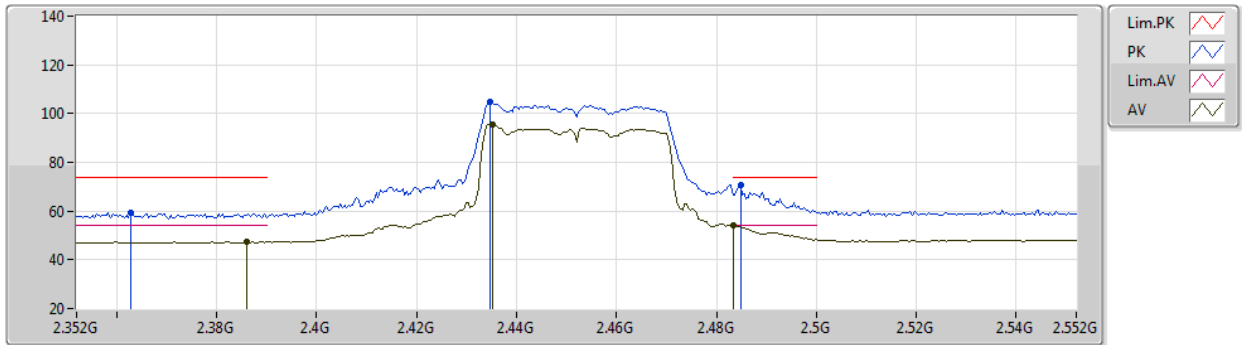
EUT Z_2TX
Setting 18/16
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3704G	58.89	74.00	-15.11	28.18	3	Vertical	207	2.83	-	28.30	2.41	-
AV	2.386G	46.92	54.00	-7.08	16.21	3	Vertical	207	2.83	-	28.30	2.41	-
PK	2.436G	100.95	Inf	-Inf	70.16	3	Vertical	207	2.83	-	28.37	2.42	-
AV	2.4356G	91.72	Inf	-Inf	60.93	3	Vertical	207	2.83	-	28.37	2.42	-
PK	2.4844G	63.55	74.00	-10.45	32.57	3	Vertical	207	2.83	-	28.54	2.44	-
AV	2.484G	50.16	54.00	-3.84	19.18	3	Vertical	207	2.83	-	28.54	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2452MHz_TX



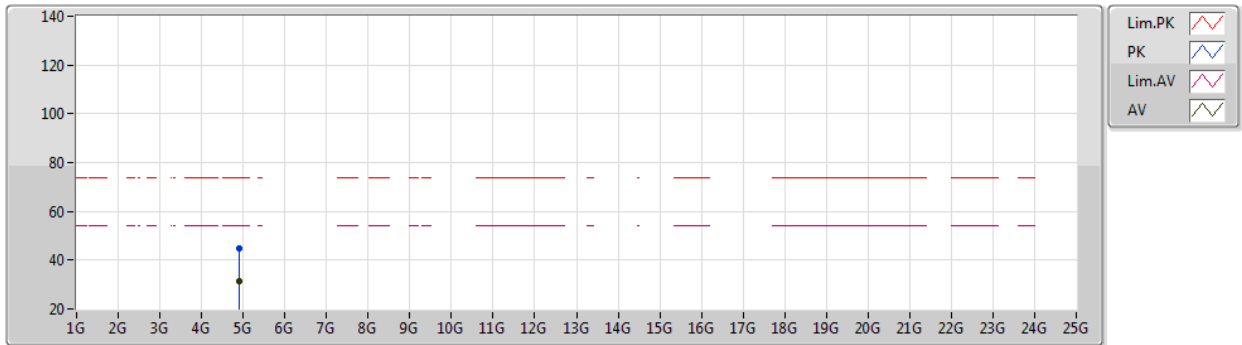
EUT Z_2TX
Setting 18/16
02-B-R-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3628G	59.21	74.00	-14.79	28.49	3	Horizontal	190	1.19	-	28.30	2.42	-
AV	2.386G	47.33	54.00	-6.67	16.62	3	Horizontal	190	1.19	-	28.30	2.41	-
PK	2.4348G	104.76	Inf	-Inf	73.97	3	Horizontal	190	1.19	-	28.37	2.42	-
AV	2.4352G	95.62	Inf	-Inf	64.83	3	Horizontal	190	1.19	-	28.37	2.42	-
PK	2.4848G	70.69	74.00	-3.31	39.71	3	Horizontal	190	1.19	-	28.54	2.44	-
AV	2.4835G	53.99	54.00	-0.01	23.02	3	Horizontal	190	1.19	-	28.53	2.44	-

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2452MHz_TX



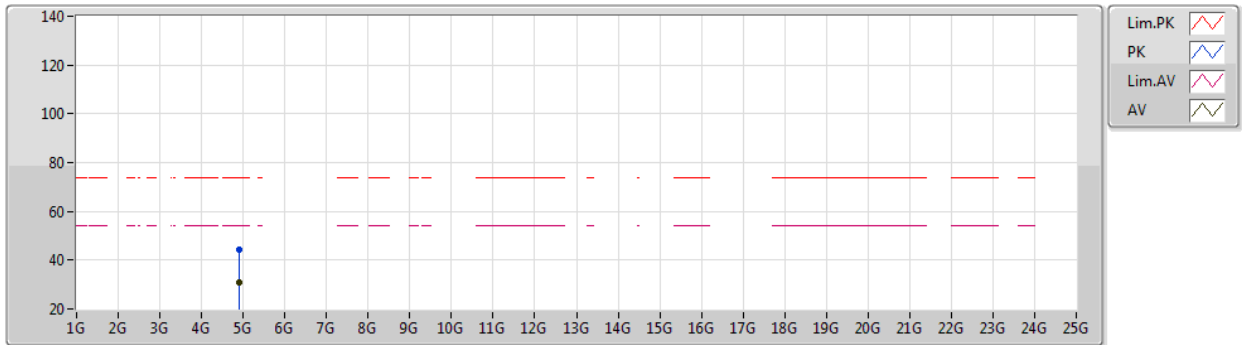
EUT_Z_2TX
Setting 18/16
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90405G	44.83	74.00	-29.17	38.74	3	Vertical	162	2.38	-	33.20	4.70	31.81
AV	4.90406G	31.50	54.00	-22.50	25.41	3	Vertical	162	2.38	-	33.20	4.70	31.81

802.11n HT40_Nss1,(MCS0)_2TX

10/03/2021

2452MHz_TX



EUT_Z_2TX
Setting 18/16
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90423G	44.32	74.00	-29.68	38.23	3	Horizontal	86	1.80	-	33.20	4.70	31.81
AV	4.90624G	30.68	54.00	-23.32	24.59	3	Horizontal	86	1.80	-	33.20	4.70	31.81



Radiated Emissions above 1GHz

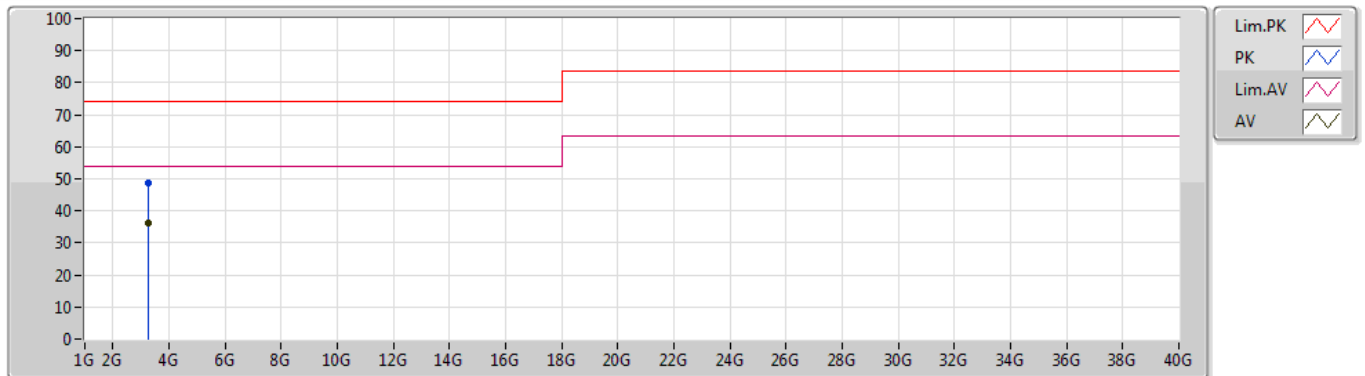
Appendix G

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	3.24934G	44.21	54.00	-9.79	Horizontal

Mode 1

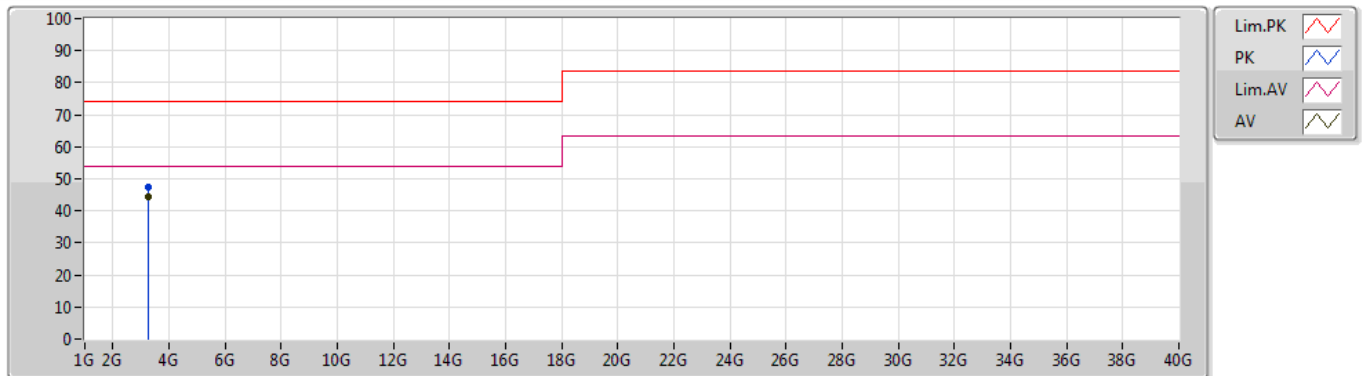
22/03/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	3.24913G	48.82	74.00	-25.18	-0.54	3	Vertical	153	1.73	-	49.36	28.41	3.82	32.77
AV	3.24994G	36.39	54.00	-17.61	-0.55	3	Vertical	153	1.73	"Worst"	36.94	28.40	3.82	32.77

Mode 1

22/03/2021



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	3.24895G	47.56	74.00	-26.44	-0.54	3	Horizontal	239	1.68	-	48.10	28.41	3.82	32.77
AV	3.24934G	44.21	54.00	-9.79	-0.54	3	Horizontal	239	1.68	"Worst"	44.75	28.41	3.82	32.77