

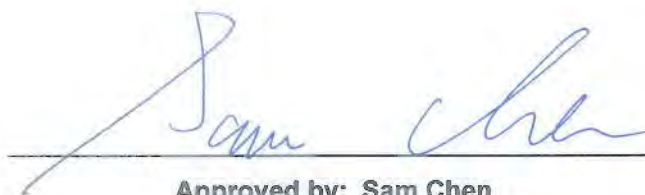


RADIO TEST REPORT

FCC ID : N82-KOHLER048
Equipment : Kohler H2Wise
Brand Name : Kohler
Model Name : K-33603-NA
Applicant : Kohler Co.
444 Highland Dr, Kohler, WI 53044
Manufacturer : Kohler Co.
444 Highland Dr, Kohler, WI 53044
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 08, 2021, and testing was started from Jan. 11, 2021 and completed on May 21, 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.)



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Appendix A. Test Results of AC Power-line Conducted Emissions

Appendix B. Test Results of DTS Bandwidth

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Appendix G. Test Photos

Photographs of EUT v01



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	-

Note: Reference to Sporton Project No.: 022708-01.

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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. 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: Wendy Pan



1 General Description

1.1 Information

1.1.1 RF General Information

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

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX
2.4-2.4835GHz	802.11n HT40	40	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	ARISTOTLE	RFA-AP821A-70B-84	PIFA Antenna	I-PEX	2.6

Note: The above information was declared by manufacturer.

For 2.4GHz WLAN function

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

Only Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT40	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

Note:

- ◆ DC is Duty Cycle.
- ◆ DCF is Duty Cycle Factor.



1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter or Host System		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	
Function	<input checked="" type="checkbox"/> Point-to-multipoint	<input type="checkbox"/> Point-to-point	
Test Software Version	Tera Term Version 4.75		

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Table for LED board and Transition board Information

Type	LED board		Transition board	
	Brand	Model	Brand	Model
1	CHENSOURCE	PHYCBE02 Rev 4_Led board	CHENSOURCE	PHYCBE03 Rev 06
2	Zinwell	ZIO-P002 LED board	Zinwell	ZIO-P002 Transition board

Table for Combination of EUT

EUT	LED board	Transition board
1	Type 1	Type 1
2	Type 2	Type 2

Note1: The above information was declared by manufacturer.

Note2: From the above, EUT 1 has selected to execute all test items and EUT 2 has selected to execute the AC Power-line Conducted Emissions, Emissions in Restricted Frequency Bands below 1GHz test.



1.2 Applicable Standards

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

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

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

- ◆ FCC KDB 558074 D01 v05r02
- ◆ FCC KDB 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	Lucke Hsieh	13.8-14.1 / 57-62	Jan. 13, 2021
Radiated (Below 1GHz / Mode 1)	03CH05-CB	Kevin Huang	20.8-22 / 55-58	Jan. 28, 2021~ Feb. 22, 2021
Radiated (Below 1GHz / Mode 2)	03CH05-CB	Ryo Fan	21.6-22.8 / 55-58	May 20, 2021
Radiated (Above 1GHz)	03CH04-CB	Brian Sun	22.2-22.6 / 63-65	Jan. 11, 2021~ Jan. 12, 2021
AC Conduction (Mode 1)	CO02-CB	Wei Li	22~23 / 56~58	Feb. 24, 2021
AC Conduction (Mode 2)	CO02-CB	Zack Kuo	22~24 / 56~59	May 21, 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))

For other test items:

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%

For AC power-line conducted emissions and Emissions in Restricted Frequency Bands test mode 2:

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	36
2437MHz	36
2462MHz	40
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	31
2417MHz	40
2437MHz	40
2457MHz	38
2462MHz	33
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	31
2417MHz	40
2437MHz	40
2457MHz	39
2462MHz	31
802.11n HT40_Nss1,(MCS0)_1TX	-
2422MHz	22
2427MHz	25
2437MHz	29
2447MHz	22
2452MHz	19



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	Normal Link-EUT 1 + Adapter
2	Normal Link-EUT 2 + Adapter
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT 1

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	Normal Link The EUT was performed at Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
1	Normal Link-EUT 1 at Z-axis + Adapter
2	Normal Link-EUT 2 at Z-axis + Adapter
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 X axis, Y axis and Z axis position. The worst case was found at Z axis for bandedge, Y axis for harmonic, so it was selected to perform test and its test result was written in the report.	
1	EUT 1 at Z-axis for bandedge / EUT 1 at Y-axis for harmonic



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

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	KOHLER	WCA002dqPHY	Input:100-240VAC, 0.5A, 50-60Hz Output: DC 5V/2.4A
Sensor	Brand Name	Model Name	Remark
Phyn Smart Water Assistant Sensor Fittings	KOHLER	PHYCBC03	Shielded, 1.2m

2.5 Support Equipment

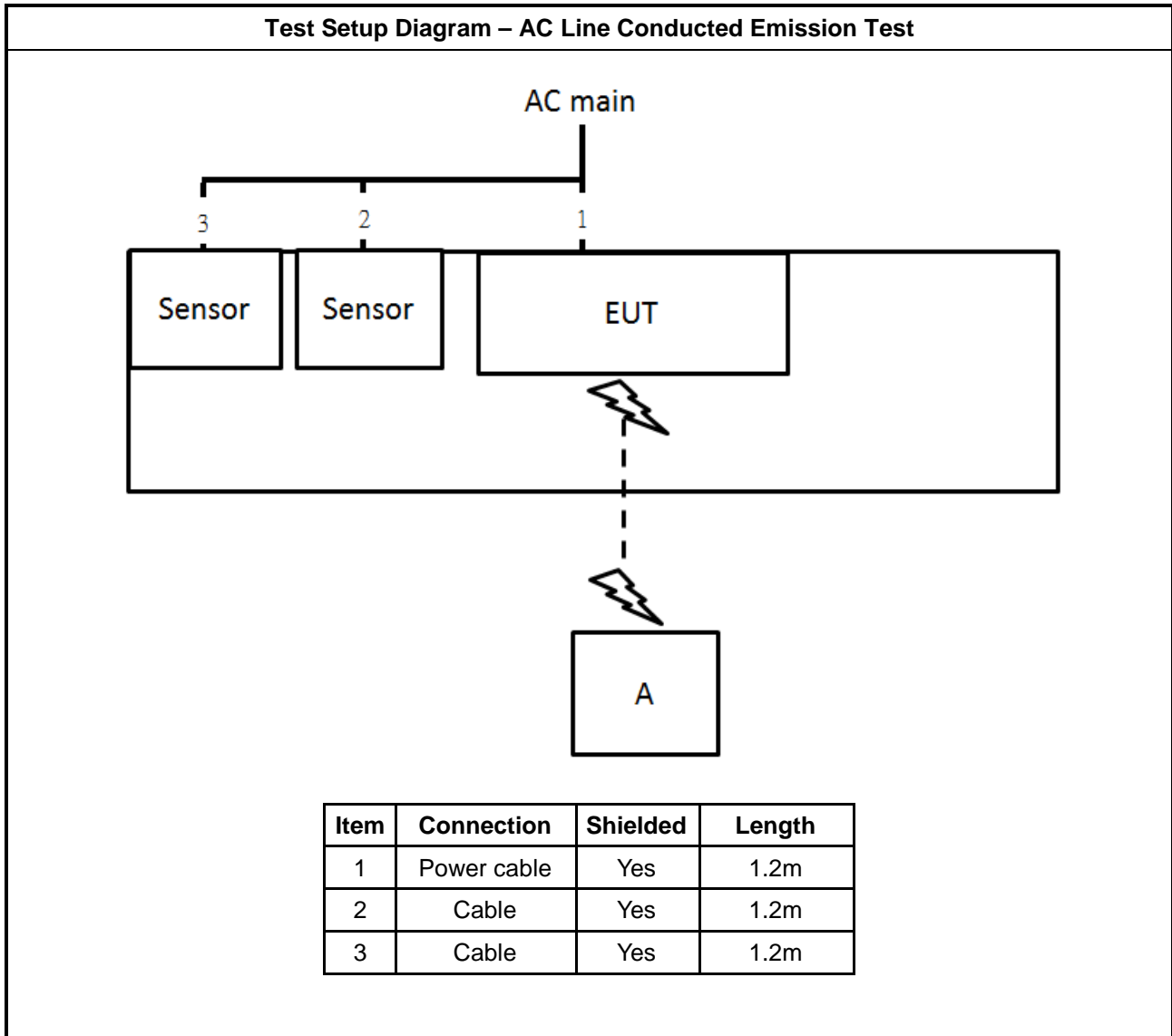
For AC Conduction:

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

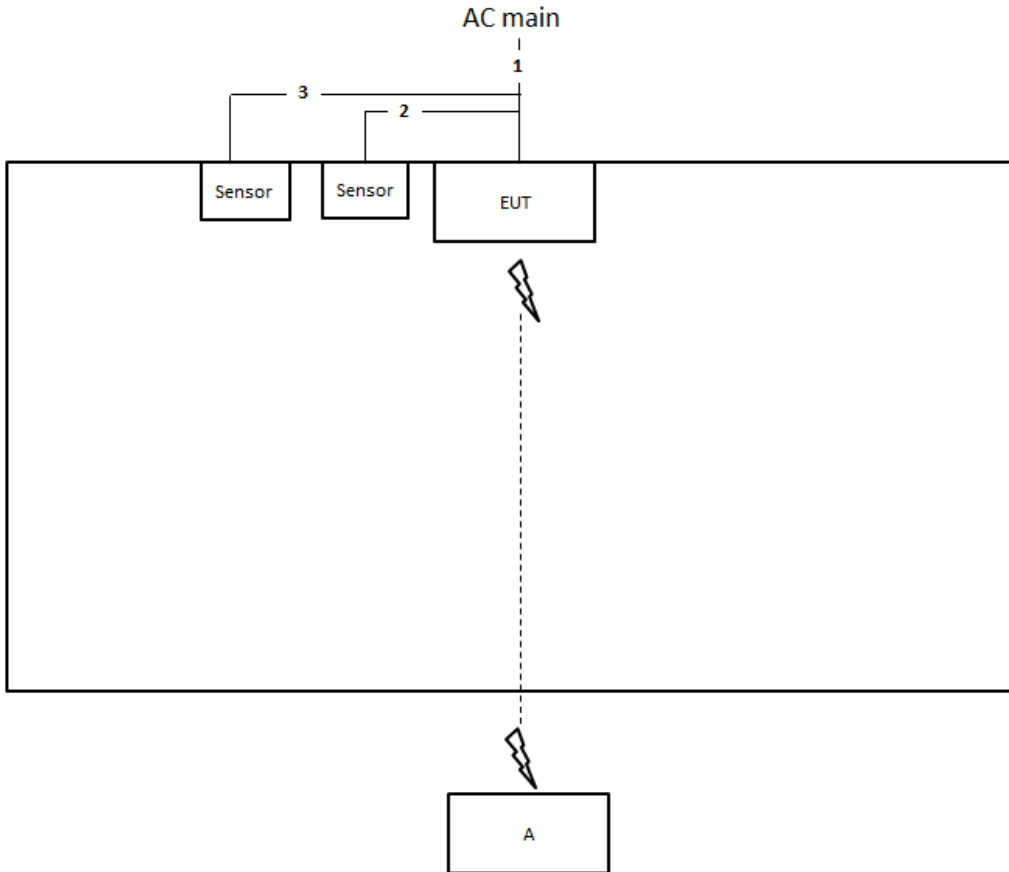
For Radiated and RF Conducted:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	2.4G NB	DELL	E4300	N/A

2.6 Test Setup Diagram

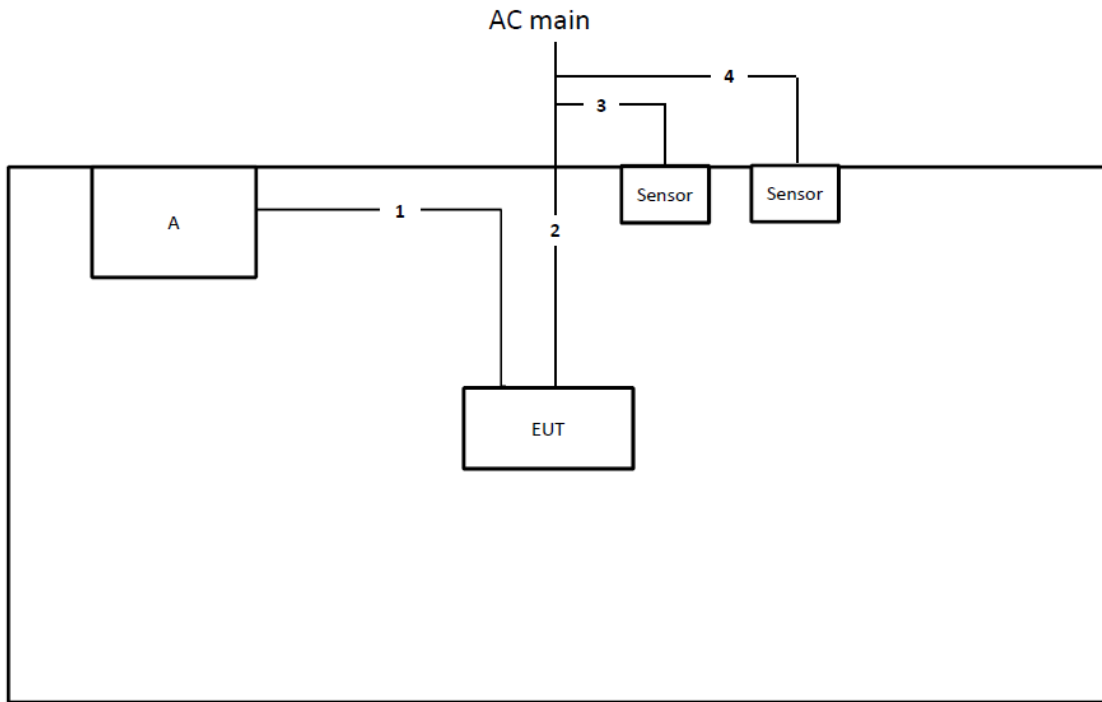


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	Yes	1.2m
2	Cable	Yes	1.2m
3	Cable	Yes	1.2m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Console cable	No	0.2m
2	Power cable	Yes	1.2m
3	Cable	Yes	1.2m
4	Cable	Yes	1.2m



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.

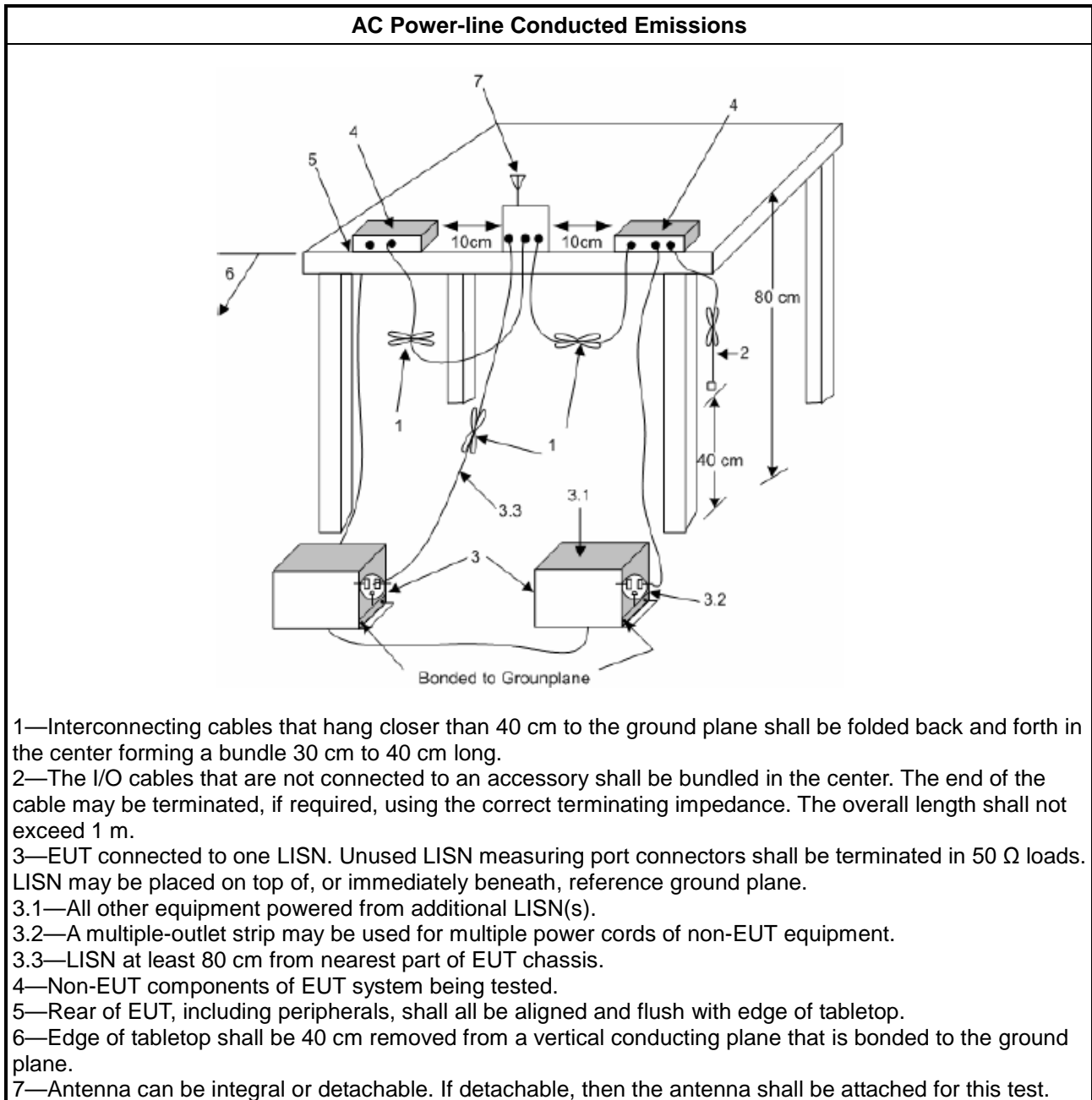
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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:

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

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

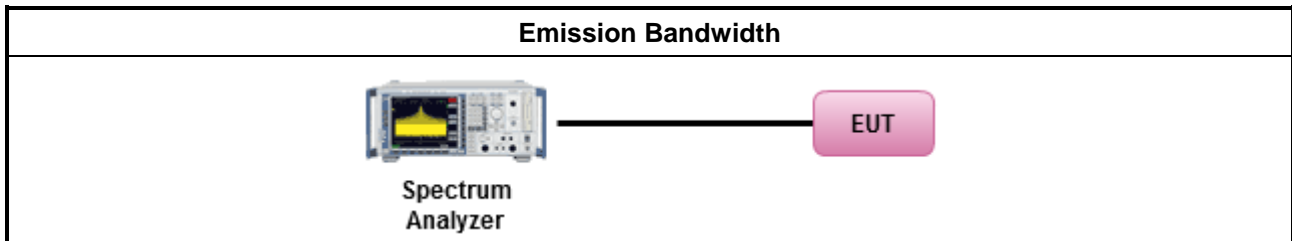
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below:
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> 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	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

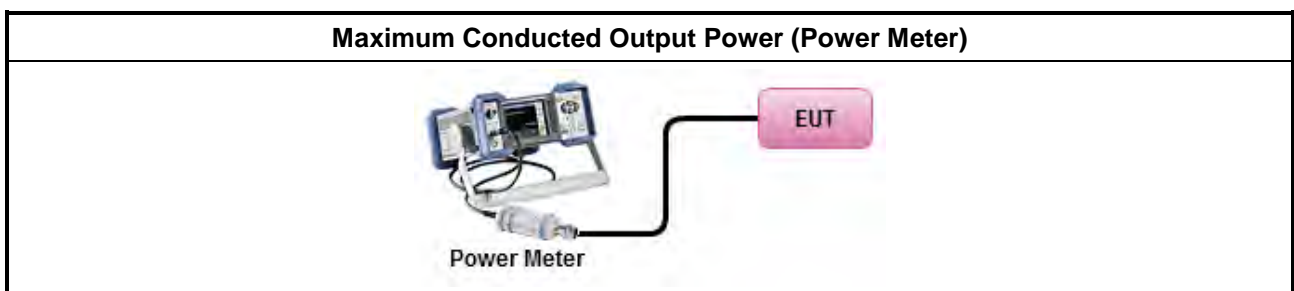
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	<input type="checkbox"/> 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	
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	<input type="checkbox"/> 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)	
	<input type="checkbox"/> 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).
	<input checked="" type="checkbox"/> 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).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ 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
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

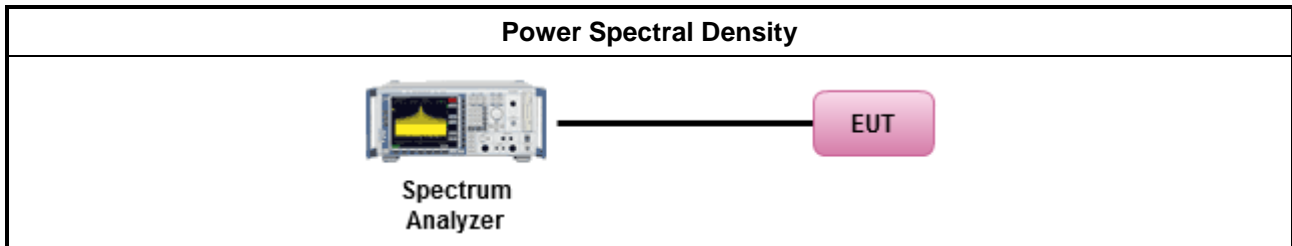
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method			
<ul style="list-style-type: none"> 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). 			
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.			
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <table border="1"> <tbody> <tr> <td> <input type="checkbox"/> 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. </td> </tr> <tr> <td> <input type="checkbox"/> 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, </td> </tr> <tr> <td> <input type="checkbox"/> 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. </td> </tr> </tbody> </table> 	<input type="checkbox"/> 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.	<input type="checkbox"/> 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,	<input type="checkbox"/> 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.
<input type="checkbox"/> 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.			
<input type="checkbox"/> 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,			
<input type="checkbox"/> 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.

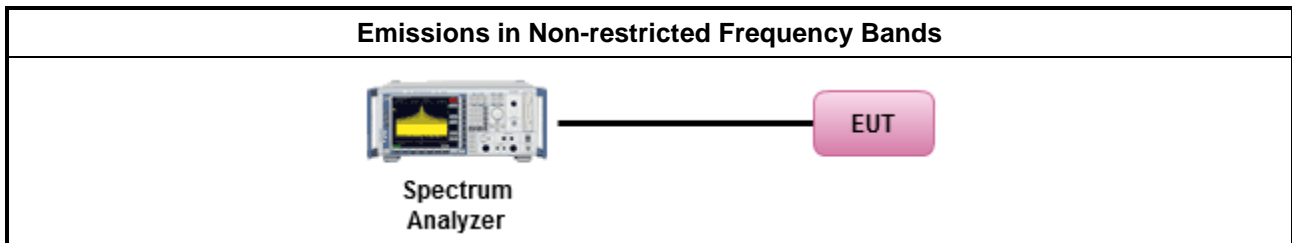
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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

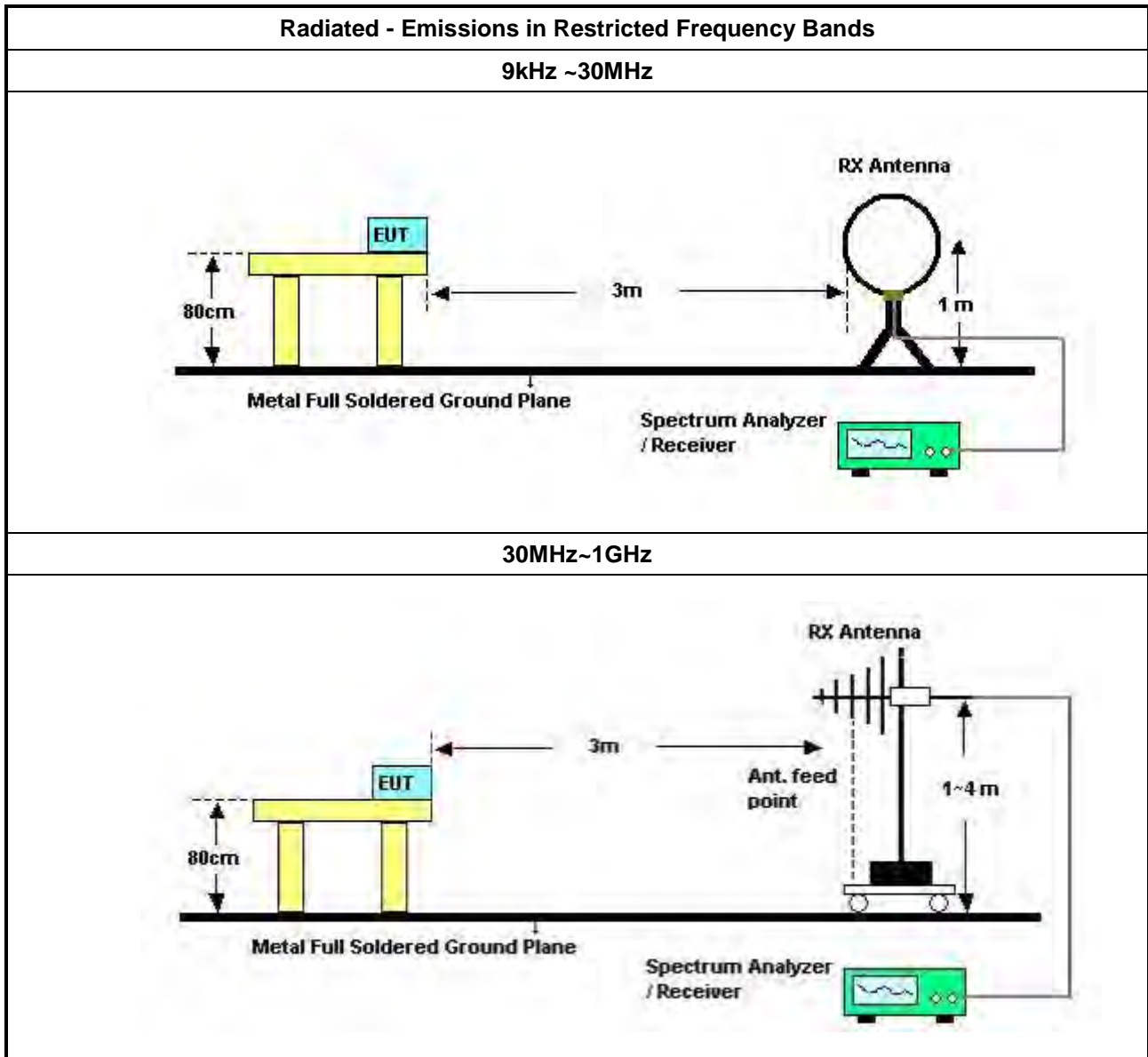
Refer a test equipment and calibration data table in this test report.

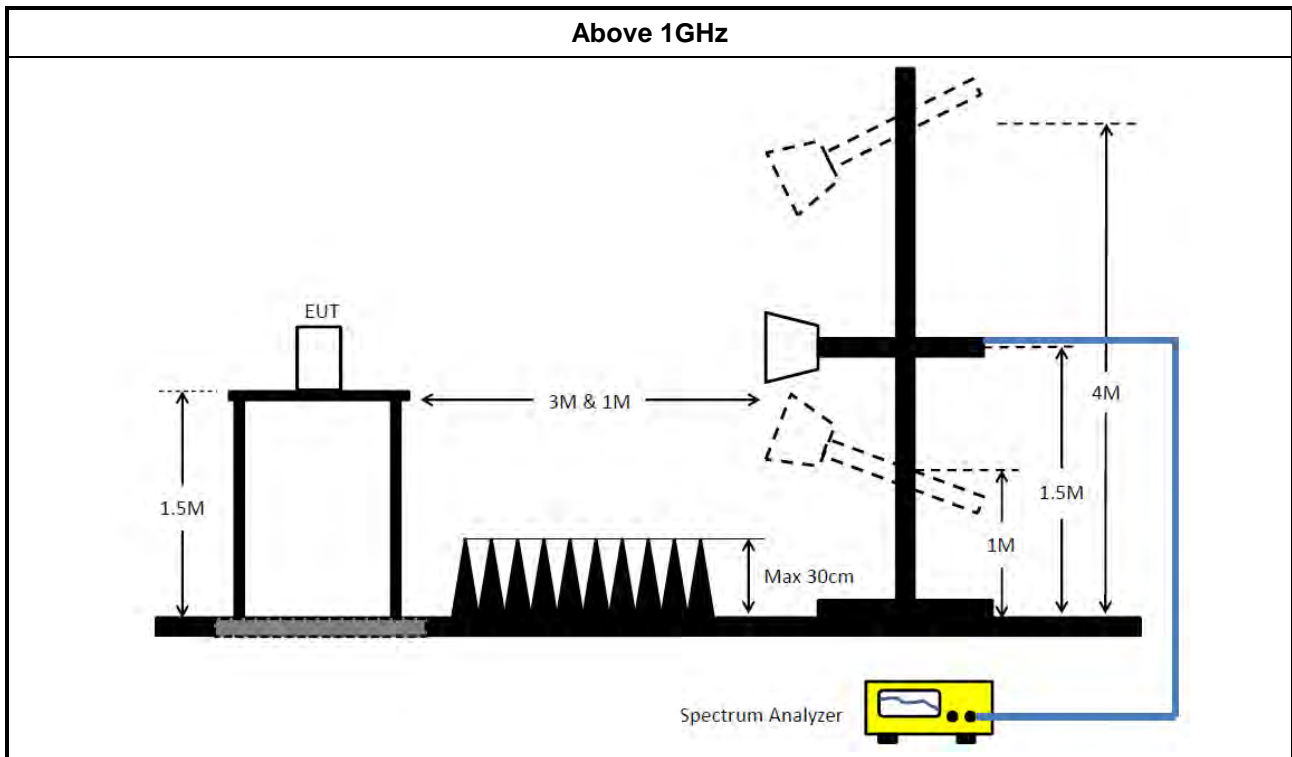


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle \geq 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW \geq 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
	<ul style="list-style-type: none"> ▪ 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
	<ul style="list-style-type: none"> ▪ 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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Dec. 04, 2020	Dec. 03, 2021	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 20, 2020	Nov. 19, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Mar. 10, 2020	Mar. 09, 2021	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 05, 2021	May 04, 2022	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 20, 2020	Oct. 19, 2021	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 19, 2020	Mar. 18, 2021	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2021	Mar. 17, 2022	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz~1 GHz	Aug. 10, 2020	Aug. 09, 2021	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 13, 2020	Apr. 12, 2021	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 27, 2020	Mar. 26, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 28, 2020	Apr. 27, 2021	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 13, 2020	May 12, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESR7	102171	9kHz ~ 26GHz	Jul. 01, 2020	Jun. 30, 2021	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 26, 2020	Feb. 25, 2021	Radiation (03CH04-CB)
Horn Antenna	ETS • Lindgren	3115	00143147	750MHz~18GHz	Oct. 23, 2020	Oct. 22, 2021	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 21, 2020	Jul. 20, 2021	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 14, 2020	Jul. 13, 2021	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 08, 2020	Jul. 07, 2021	Radiation (03CH04-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	May 12, 2020	May 11, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Nov. 05, 2020	Nov. 04, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-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	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 2021	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 07, 2020	Feb. 06, 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.

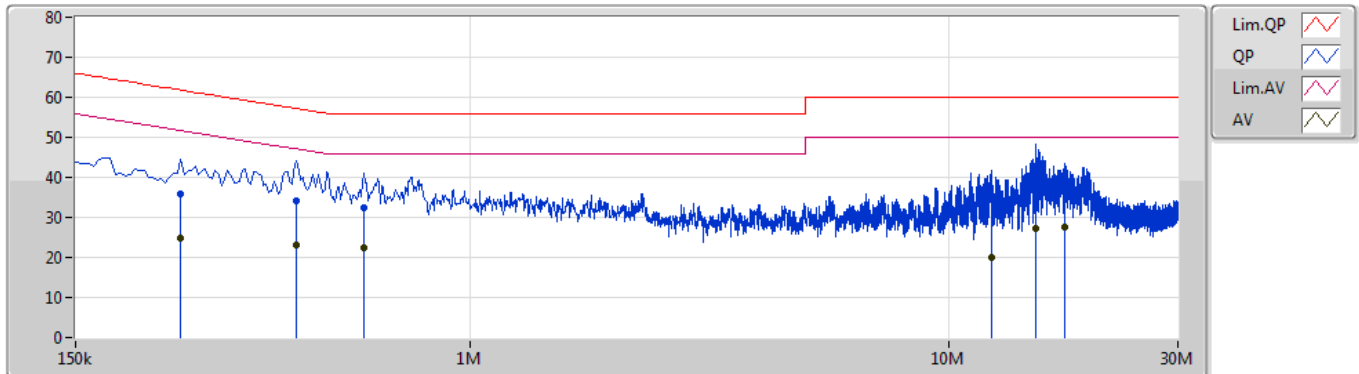


Summary

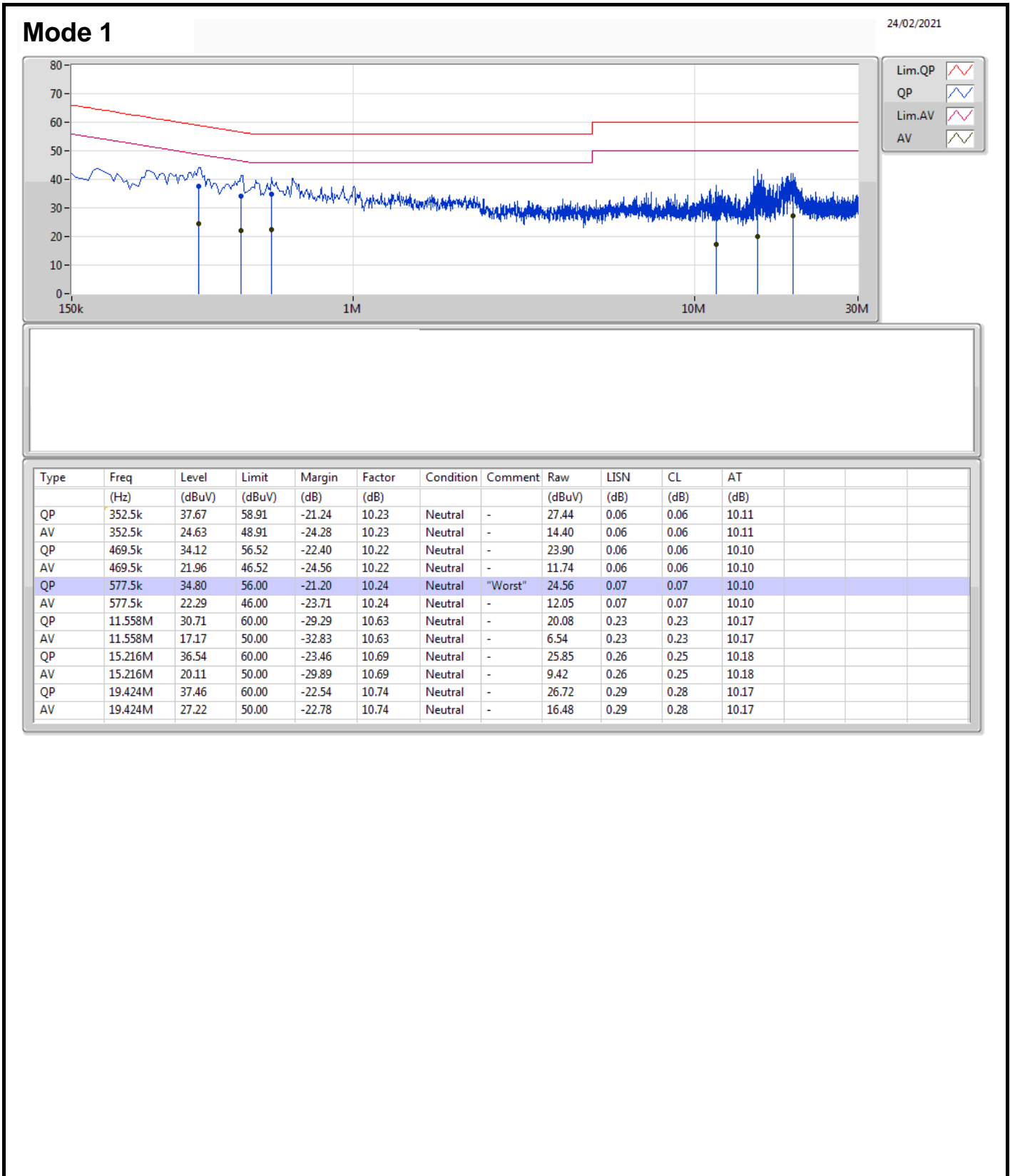
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	15.185M	42.31	60.00	-17.69	Line

Mode 1

24/02/2021



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	249k	35.90	61.79	-25.89	10.29	Line	-	25.61	0.07	0.07	10.15
AV	249k	24.81	51.79	-26.98	10.29	Line	-	14.52	0.07	0.07	10.15
QP	433.5k	34.02	57.19	-23.17	10.24	Line	-	23.78	0.08	0.06	10.10
AV	433.5k	23.05	47.19	-24.14	10.24	Line	-	12.81	0.08	0.06	10.10
QP	600k	32.50	56.00	-23.50	10.25	Line	-	22.25	0.08	0.07	10.10
AV	600k	22.28	46.00	-23.72	10.25	Line	-	12.03	0.08	0.07	10.10
QP	12.228M	35.56	60.00	-24.44	10.71	Line	-	24.85	0.31	0.23	10.17
AV	12.228M	20.15	50.00	-29.85	10.71	Line	-	9.44	0.31	0.23	10.17
QP	15.185M	42.31	60.00	-17.69	10.78	Line	"Worst"	31.53	0.35	0.25	10.18
AV	15.185M	27.33	50.00	-22.67	10.78	Line	-	16.55	0.35	0.25	10.18
QP	17.417M	39.50	60.00	-20.50	10.82	Line	-	28.68	0.38	0.27	10.17
AV	17.417M	27.43	50.00	-22.57	10.82	Line	-	16.61	0.38	0.27	10.17



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.05M	15.542M	15M5G1D	9.525M	14.918M
802.11g_Nss1,(6Mbps)_1TX	16.325M	18.891M	18M9D1D	16.3M	16.617M
802.11n HT20_Nss1,(MCS0)_1TX	17.525M	19.64M	19M6D1D	17.3M	17.641M
802.11n HT40_Nss1,(MCS0)_1TX	36.05M	36.332M	36M3D1D	35.4M	35.982M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.525M	14.993M
2437MHz	Pass	500k	10M	14.918M
2462MHz	Pass	500k	10.05M	15.542M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.617M
2437MHz	Pass	500k	16.3M	18.891M
2462MHz	Pass	500k	16.325M	16.642M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.525M	17.691M
2437MHz	Pass	500k	17.525M	19.64M
2462MHz	Pass	500k	17.3M	17.641M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.05M	36.182M
2437MHz	Pass	500k	35.4M	36.332M
2452MHz	Pass	500k	35.6M	35.982M

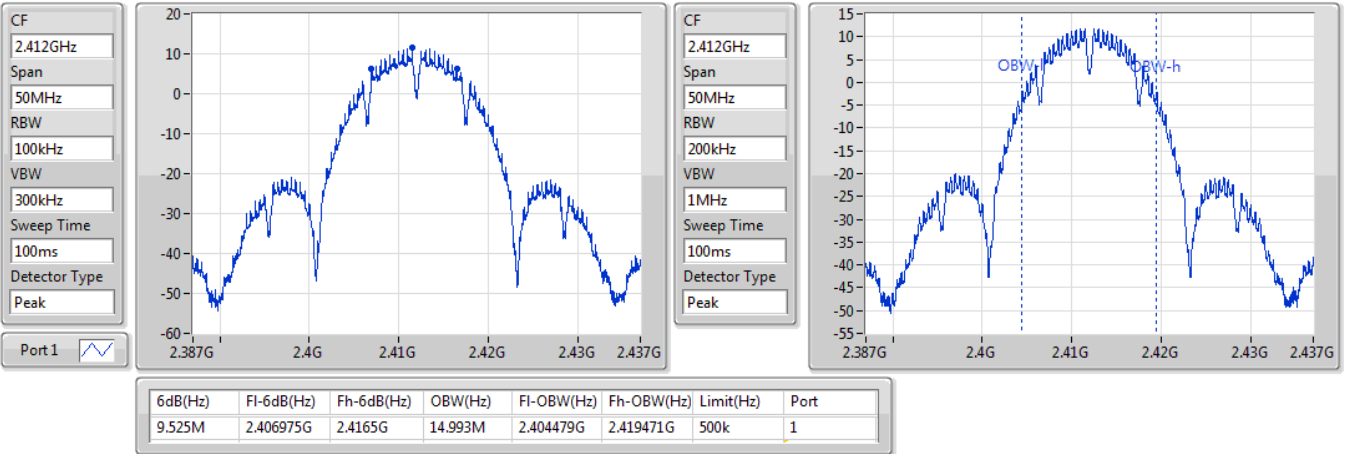
Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

13/01/2021

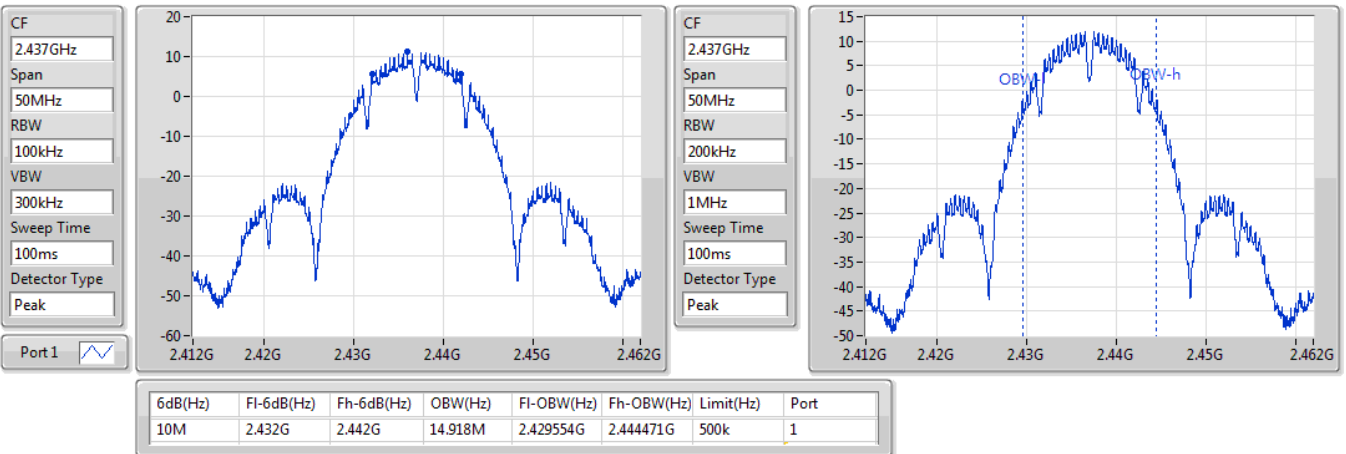


802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

13/01/2021



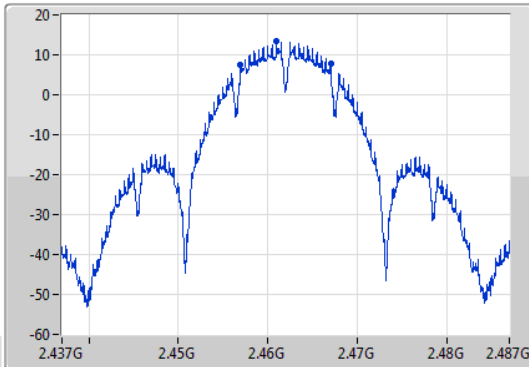
802.11b_Nss1,(1Mbps)_1TX

EBW

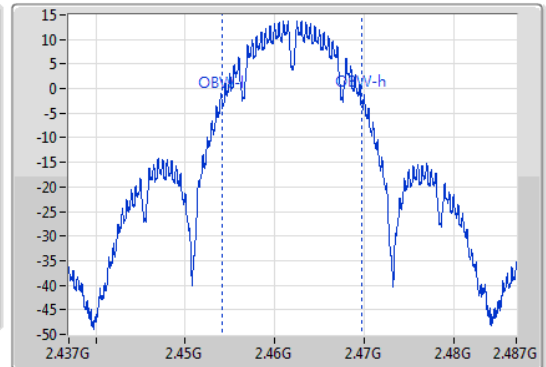
2462MHz

13/01/2021

CF
2.462GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.462GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.456975G	2.467025G	15.542M	2.454154G	2.469696G	500k	1

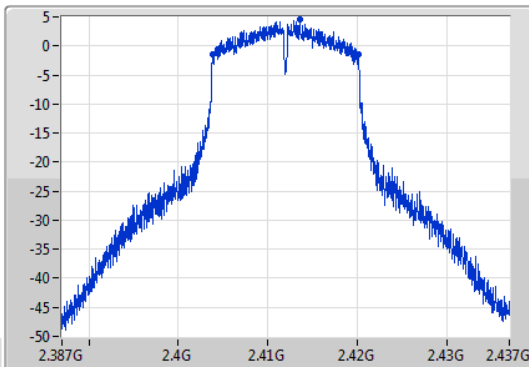
802.11g_Nss1,(6Mbps)_1TX

EBW

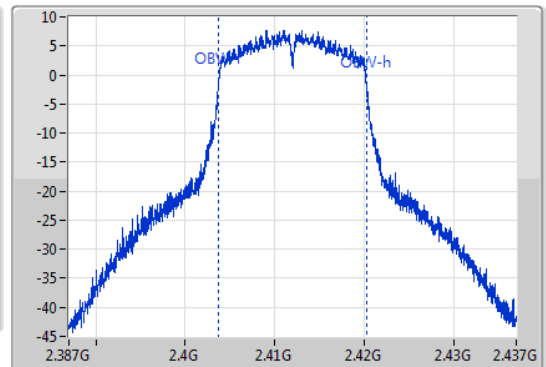
2412MHz

13/01/2021

CF
2.412GHz
Span
50MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.412GHz
Span
50MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak



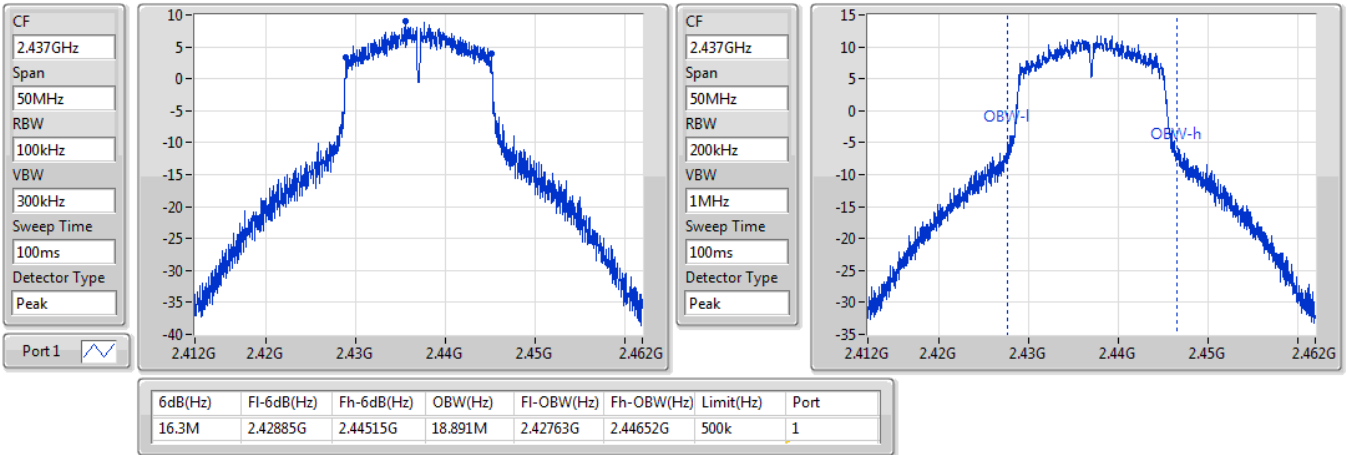
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.403825G	2.420125G	16.617M	2.403679G	2.420296G	500k	1

802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

13/01/2021

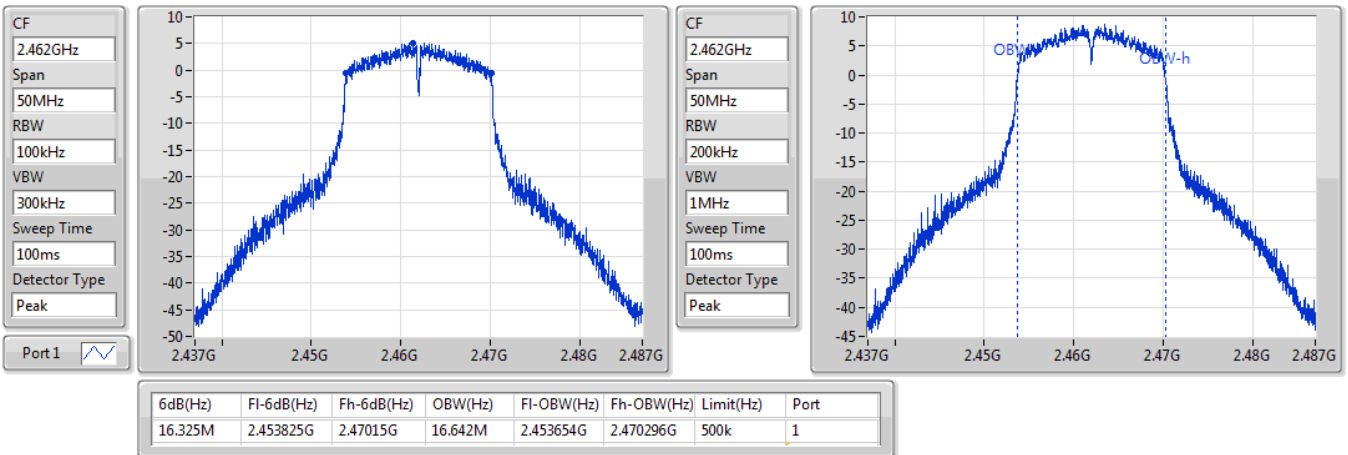


802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

13/01/2021

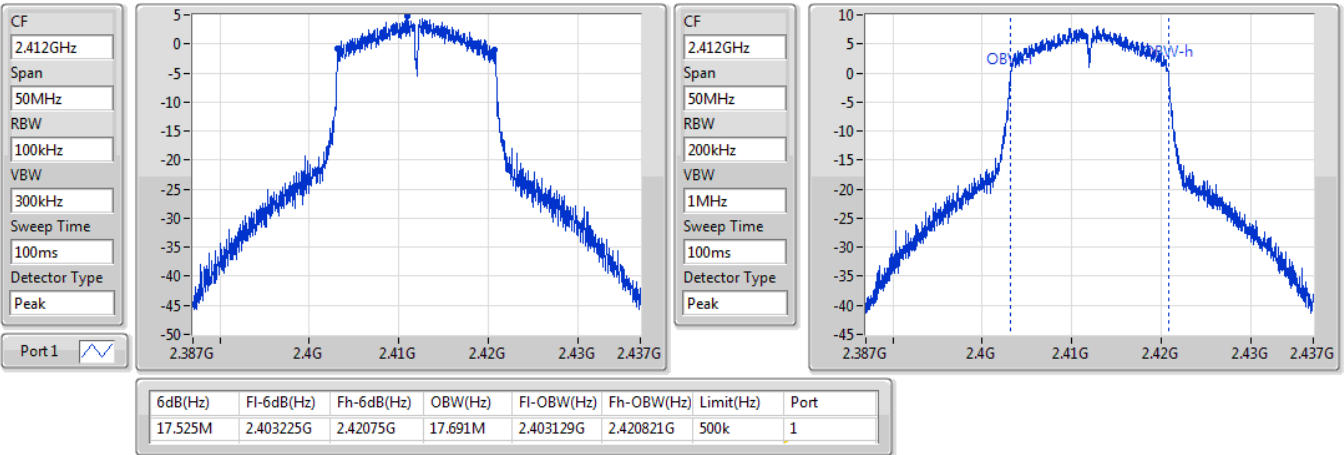


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2412MHz

13/01/2021

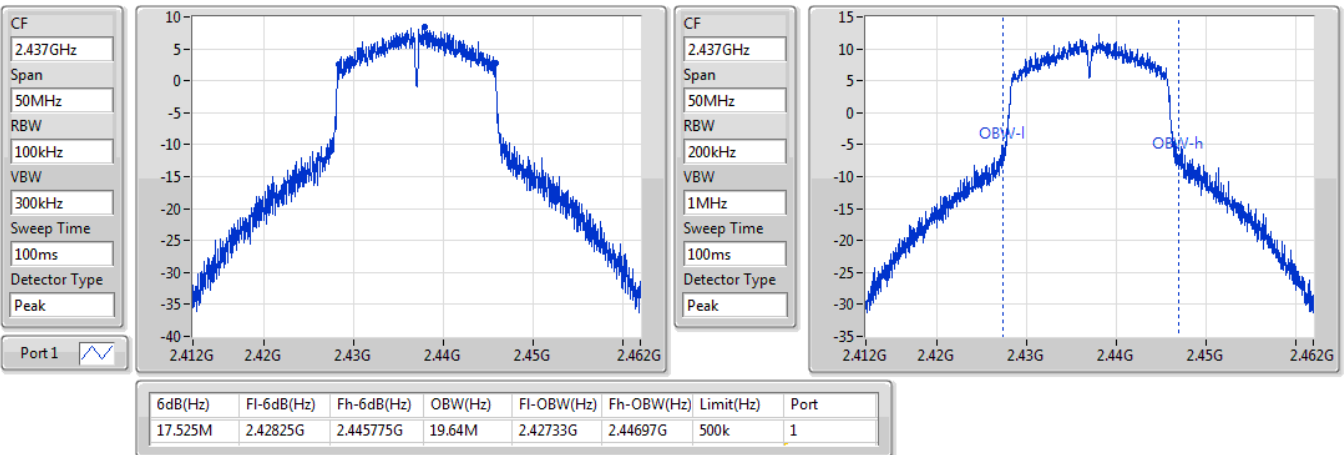


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2437MHz

13/01/2021

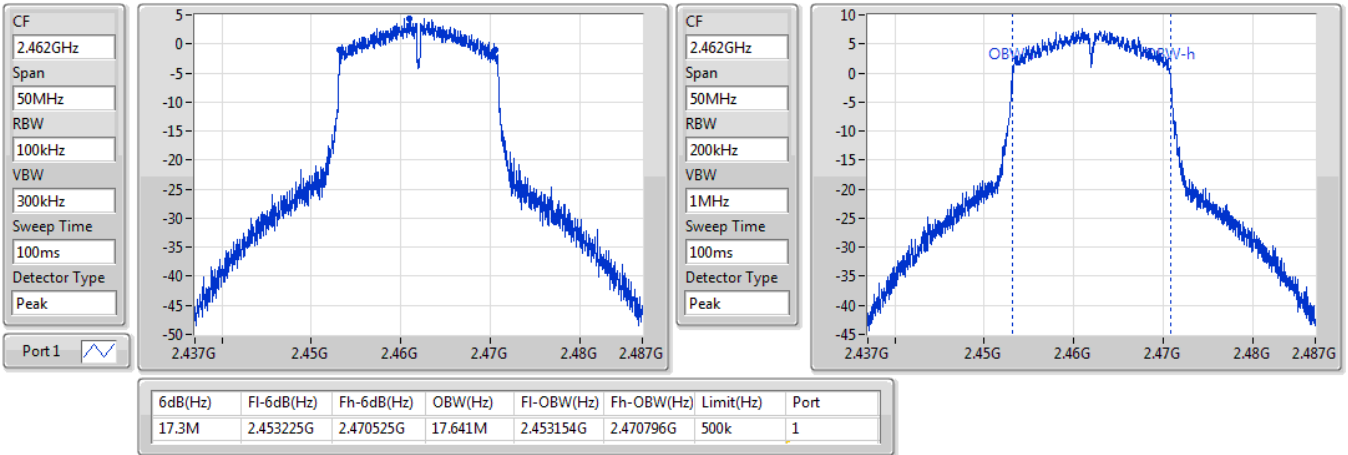


802.11n HT20_Nss1,(MCS0)_1TX

EBW

2462MHz

13/01/2021

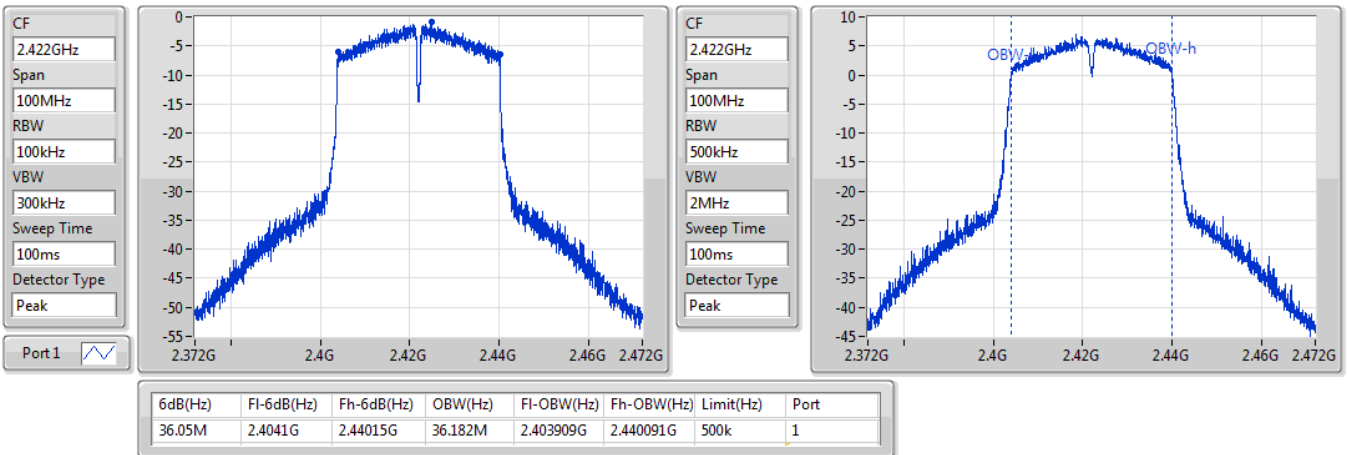


802.11n HT40_Nss1,(MCS0)_1TX

EBW

2422MHz

13/01/2021

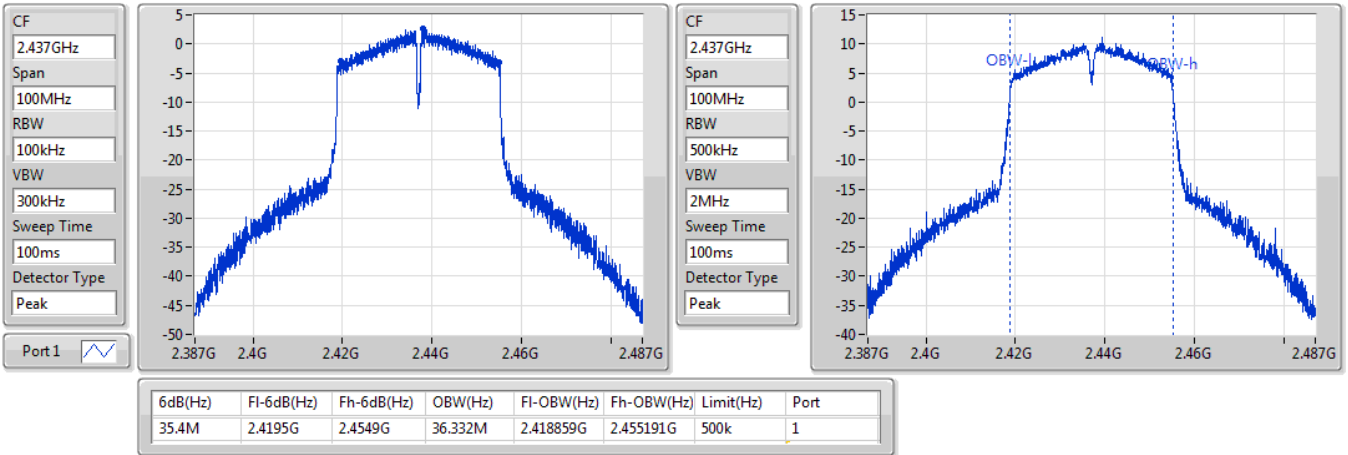


802.11n HT40_Nss1,(MCS0)_1TX

EBW

2437MHz

13/01/2021

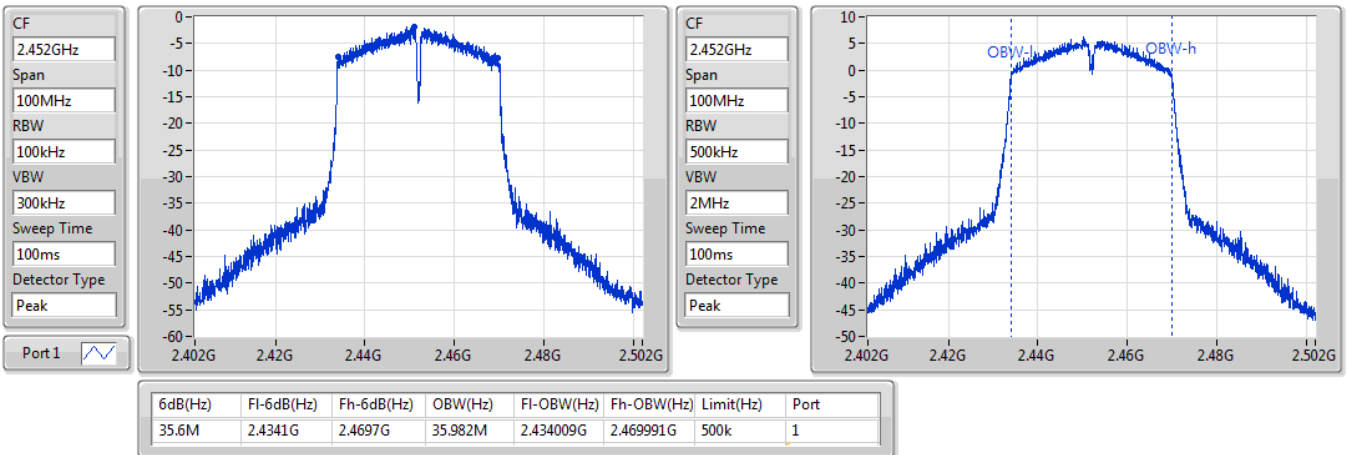


802.11n HT40_Nss1,(MCS0)_1TX

EBW

2452MHz

13/01/2021





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	22.75	0.18836
802.11g_Nss1,(6Mbps)_1TX	21.34	0.13614
802.11n HT20_Nss1,(MCS0)_1TX	21.27	0.13397
802.11n HT40_Nss1,(MCS0)_1TX	18.59	0.07228



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.60	20.69	20.69	30.00
2437MHz	Pass	2.60	20.73	20.73	30.00
2462MHz	Pass	2.60	22.75	22.75	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.60	17.40	17.40	30.00
2417MHz	Pass	2.60	21.33	21.33	30.00
2437MHz	Pass	2.60	21.34	21.34	30.00
2457MHz	Pass	2.60	20.71	20.71	30.00
2462MHz	Pass	2.60	18.33	18.33	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.60	17.66	17.66	30.00
2417MHz	Pass	2.60	21.26	21.26	30.00
2437MHz	Pass	2.60	21.27	21.27	30.00
2457MHz	Pass	2.60	20.96	20.96	30.00
2462MHz	Pass	2.60	17.40	17.40	30.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.60	15.18	15.18	30.00
2427MHz	Pass	2.60	16.63	16.63	30.00
2437MHz	Pass	2.60	18.59	18.59	30.00
2447MHz	Pass	2.60	15.38	15.38	30.00
2452MHz	Pass	2.60	14.18	14.18	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-1.18
802.11g_Nss1,(6Mbps)_1TX	-4.18
802.11n HT20_Nss1,(MCS0)_1TX	-3.79
802.11n HT40_Nss1,(MCS0)_1TX	-9.09

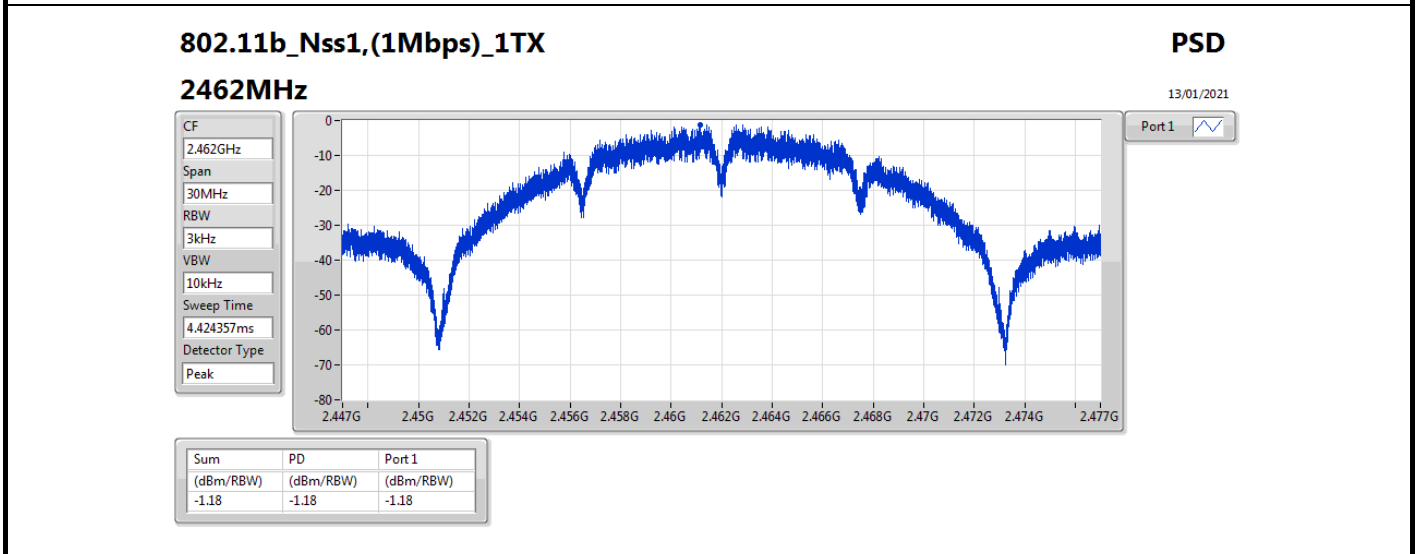
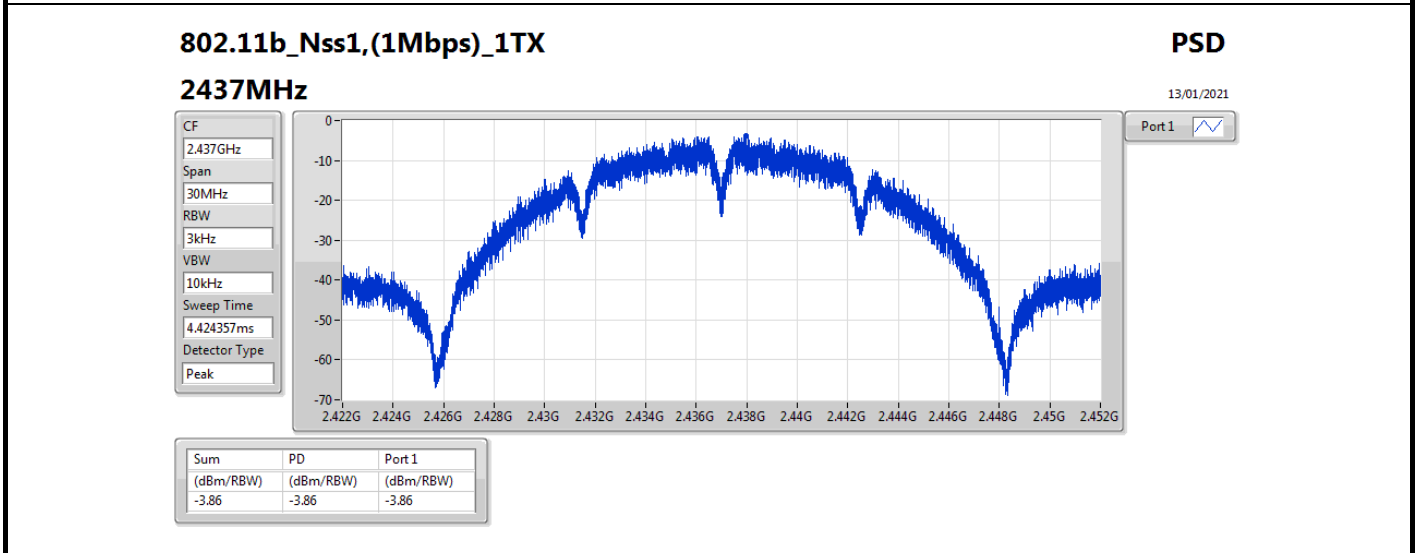
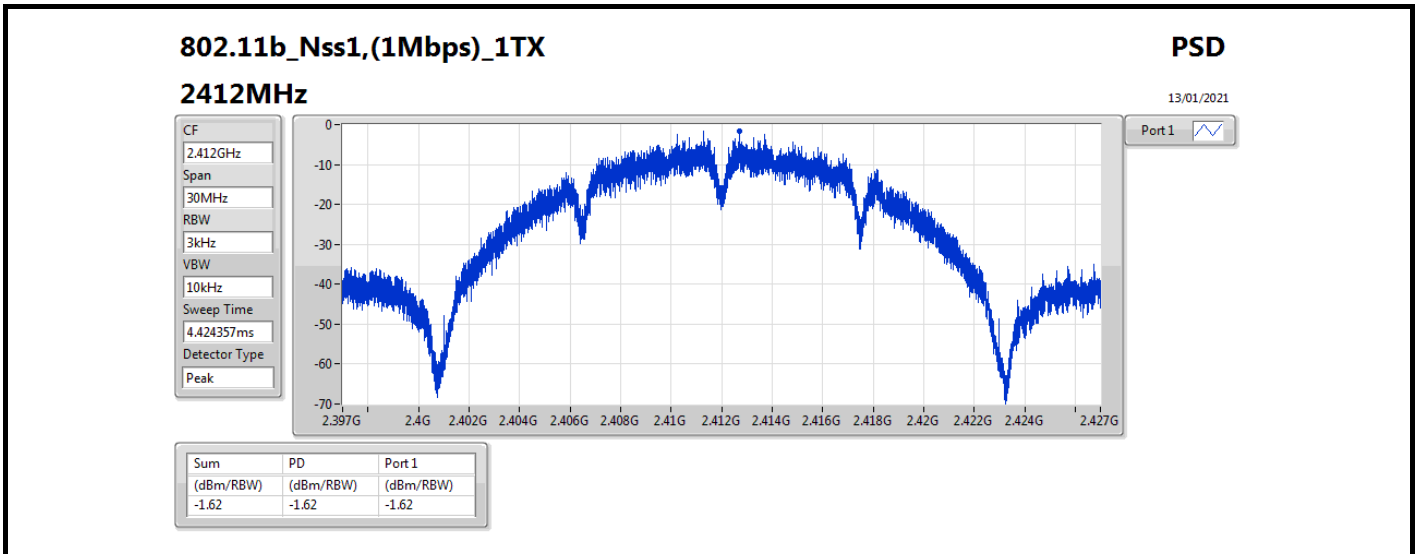
RBW = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

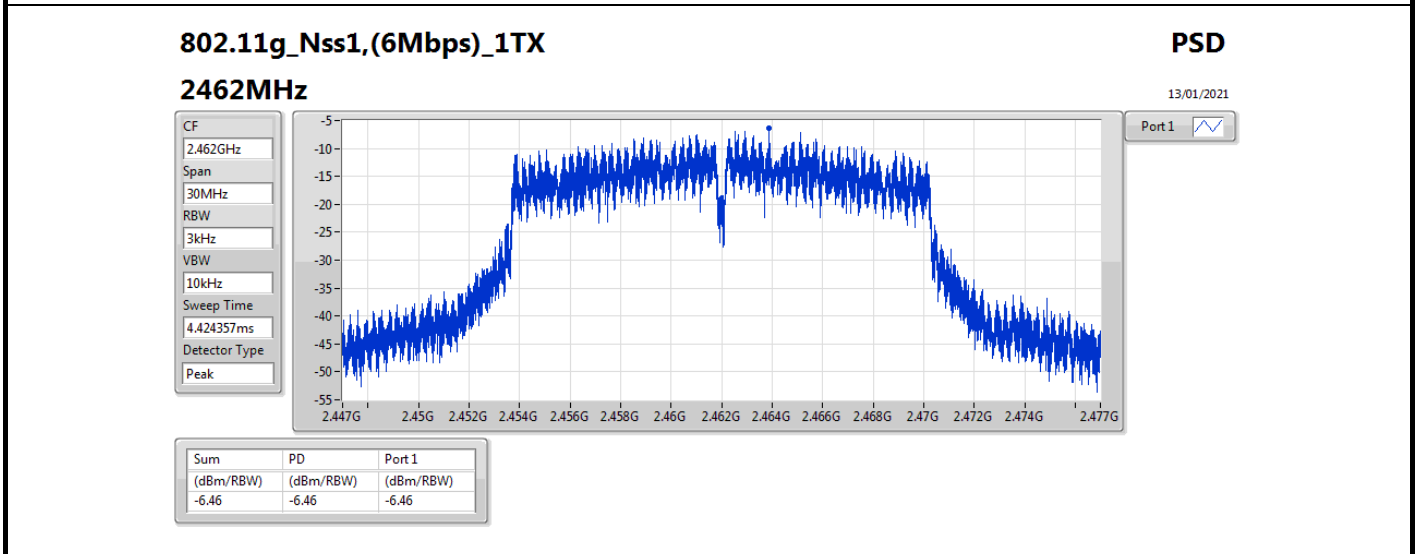
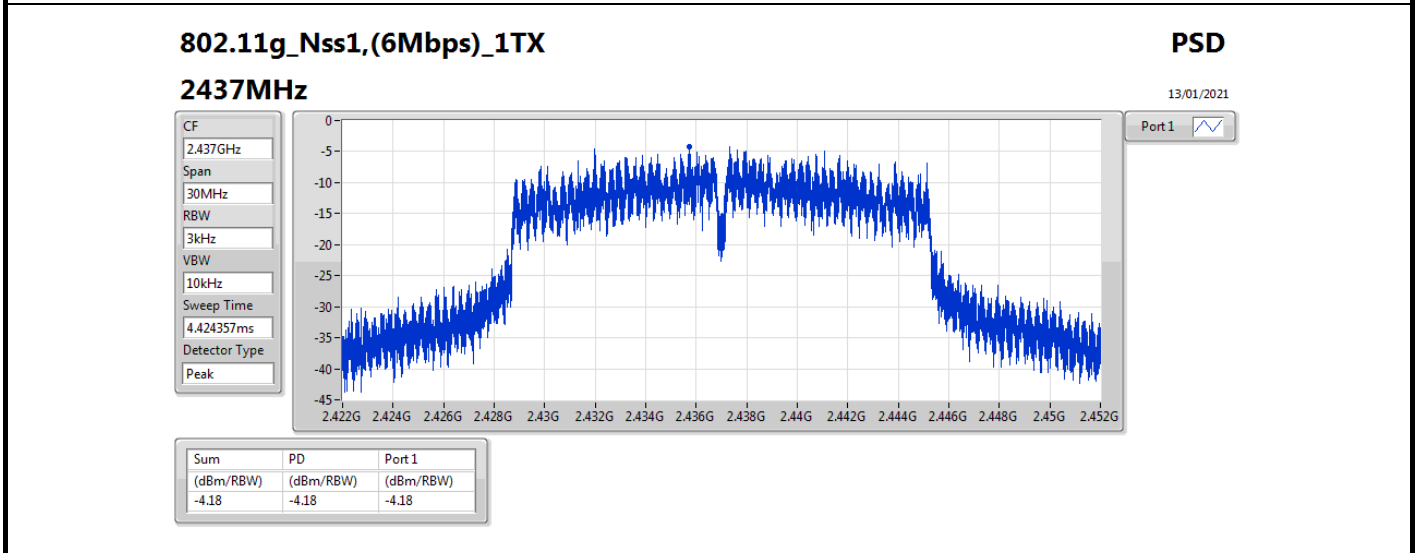
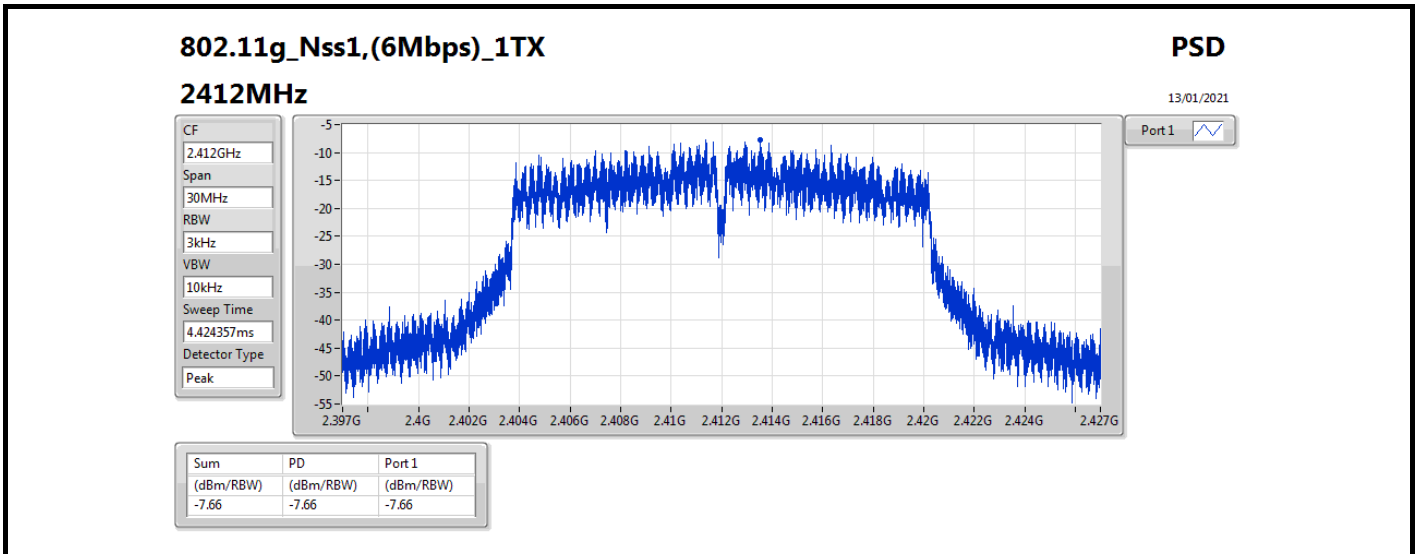
Result

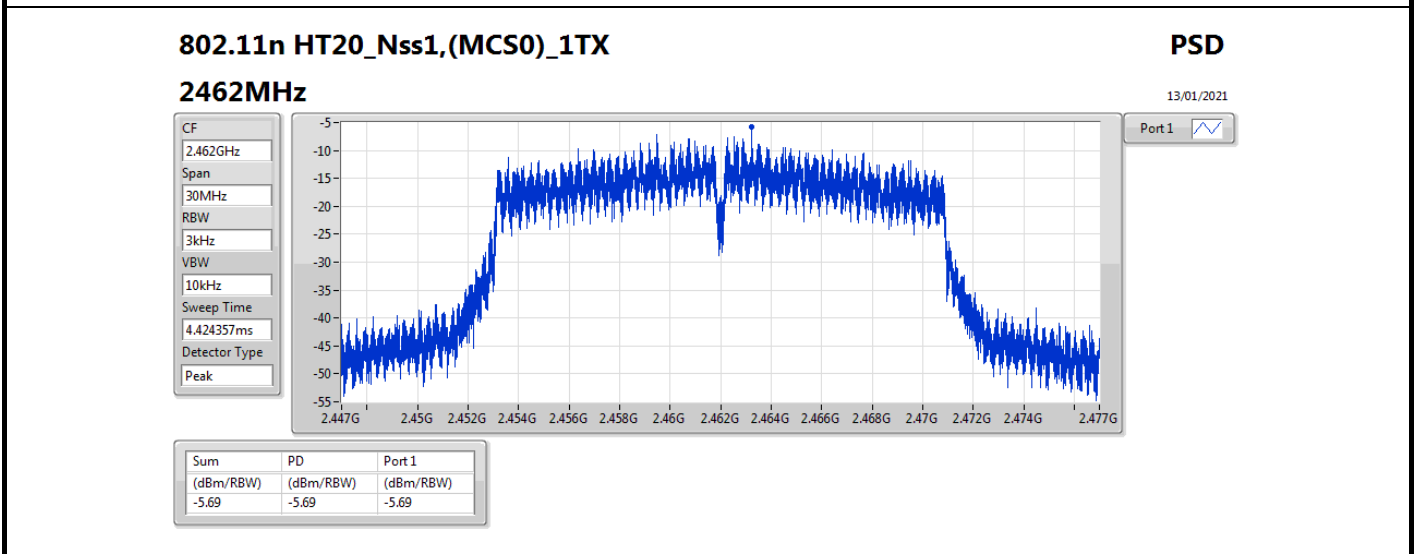
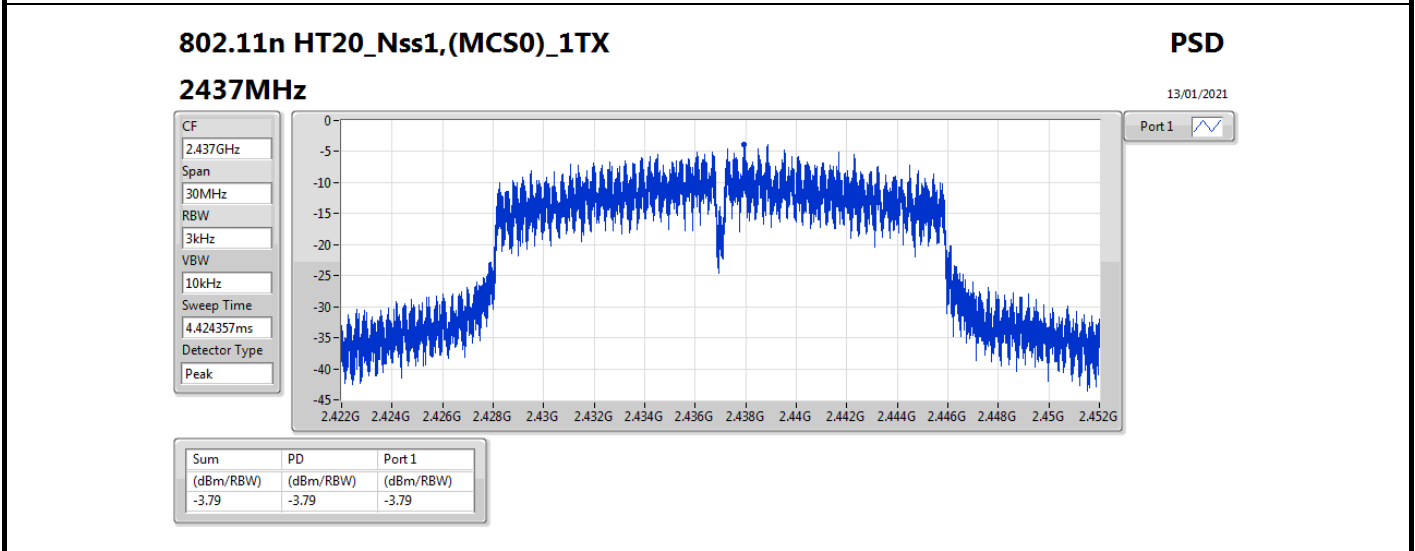
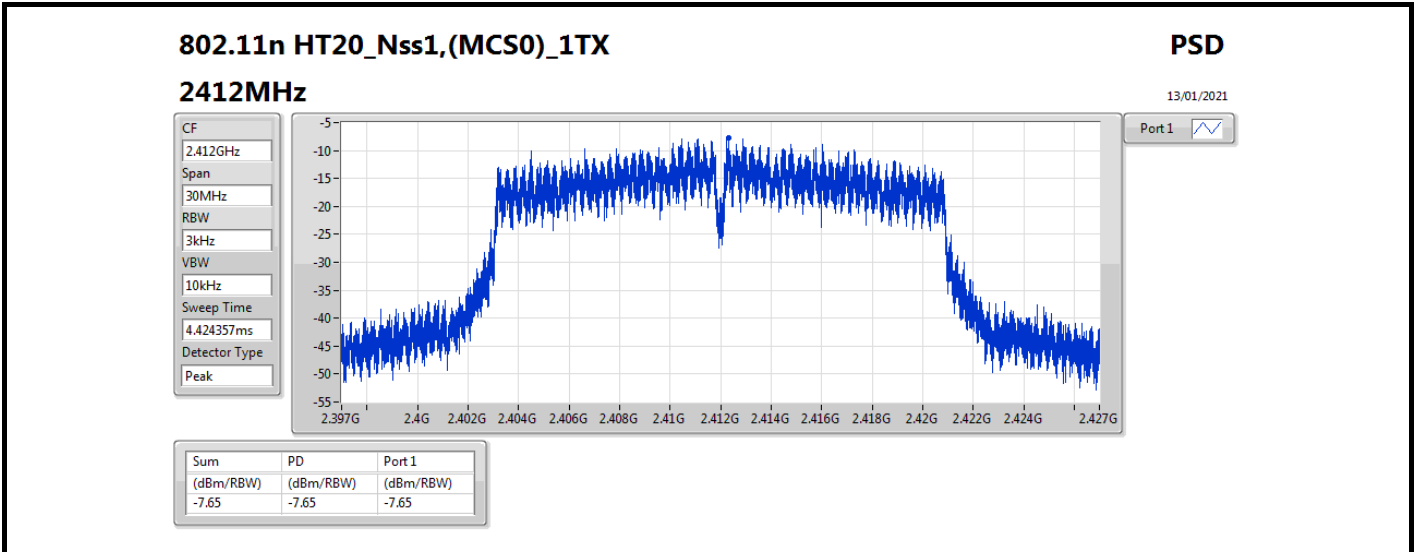
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.60	-1.62	-1.62	8.00
2437MHz	Pass	2.60	-3.86	-3.86	8.00
2462MHz	Pass	2.60	-1.18	-1.18	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.60	-7.66	-7.66	8.00
2437MHz	Pass	2.60	-4.18	-4.18	8.00
2462MHz	Pass	2.60	-6.46	-6.46	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.60	-7.65	-7.65	8.00
2437MHz	Pass	2.60	-3.79	-3.79	8.00
2462MHz	Pass	2.60	-5.69	-5.69	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.60	-11.92	-11.92	8.00
2437MHz	Pass	2.60	-9.09	-9.09	8.00
2452MHz	Pass	2.60	-13.10	-13.10	8.00

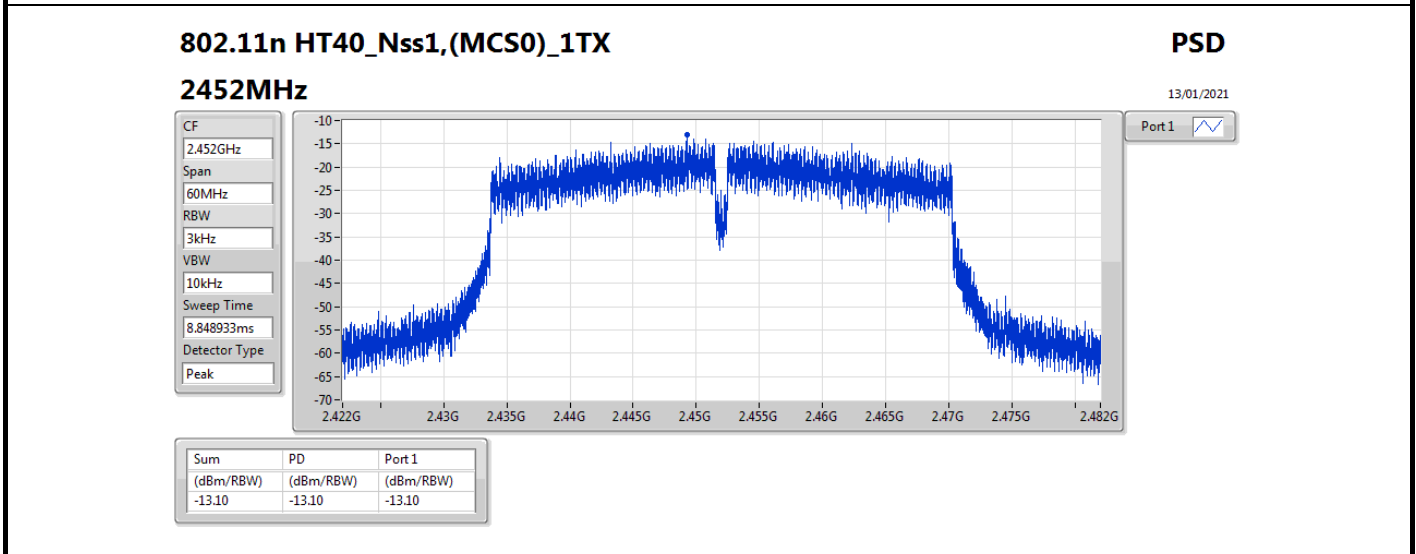
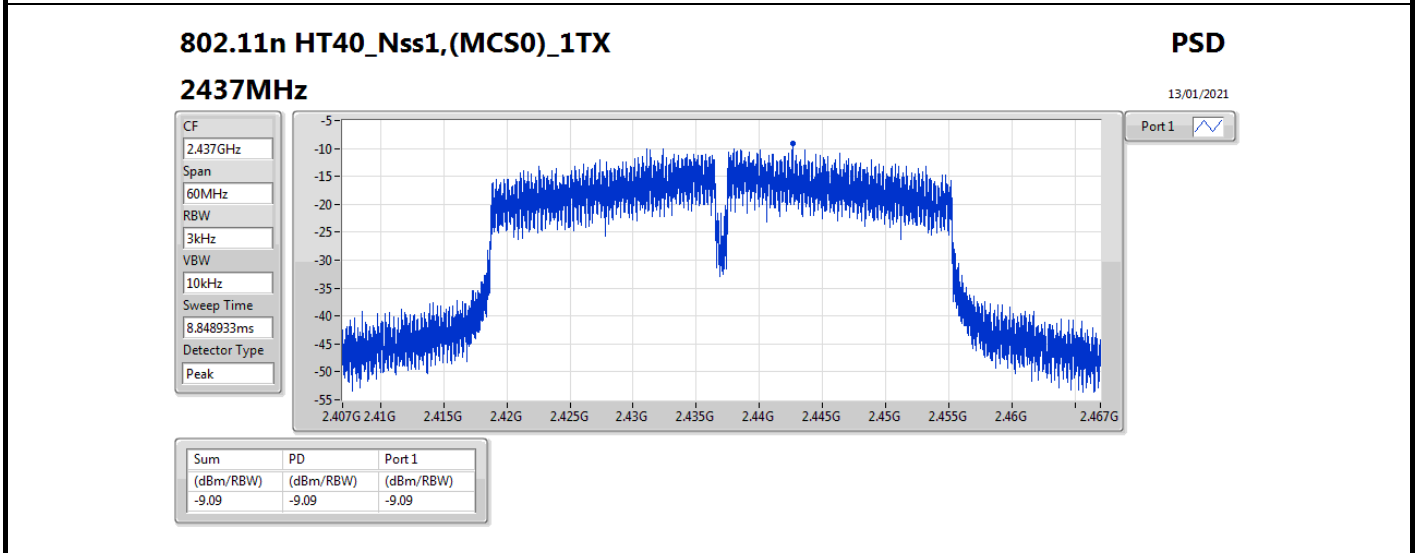
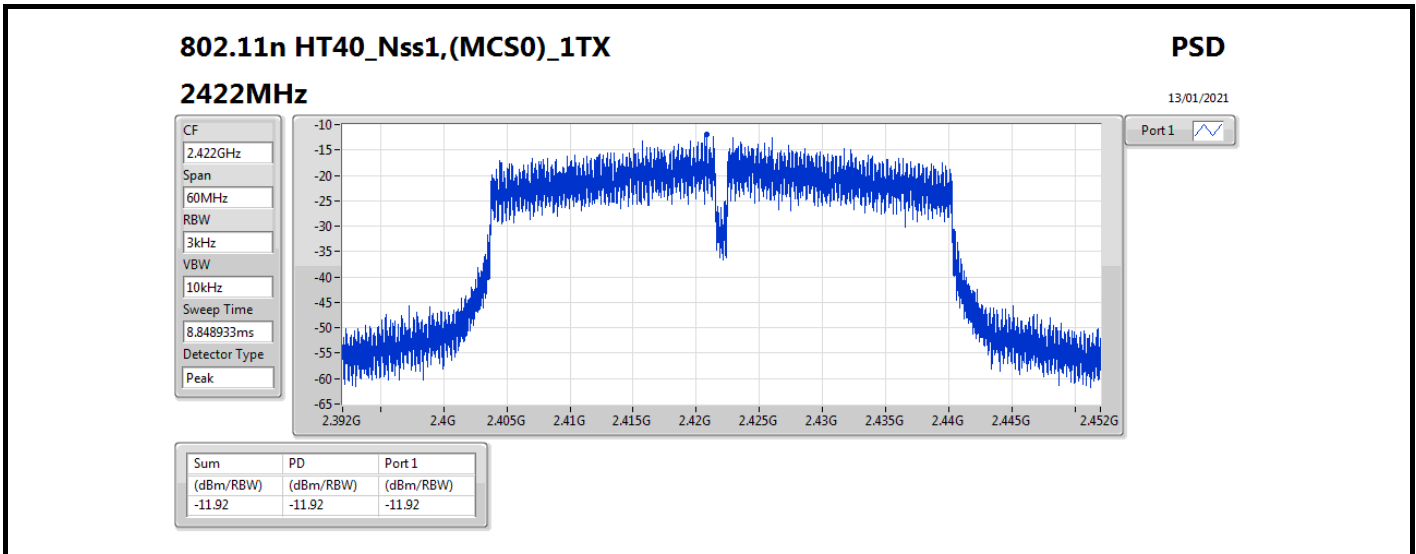
DG = Directional Gain; **RBW** = 500 kHz for 5.725-5.85GHz band / 1MHz for other band;

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









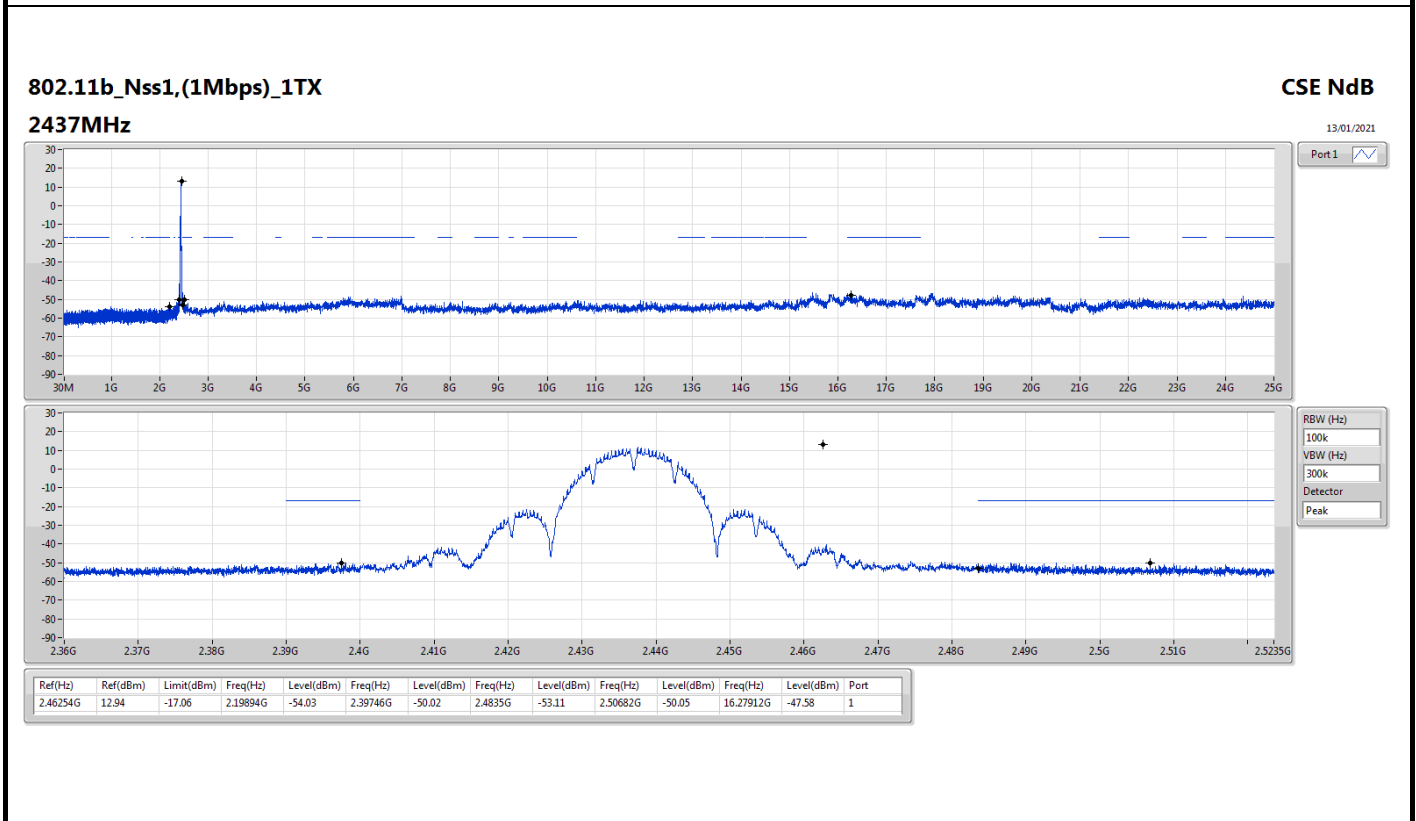
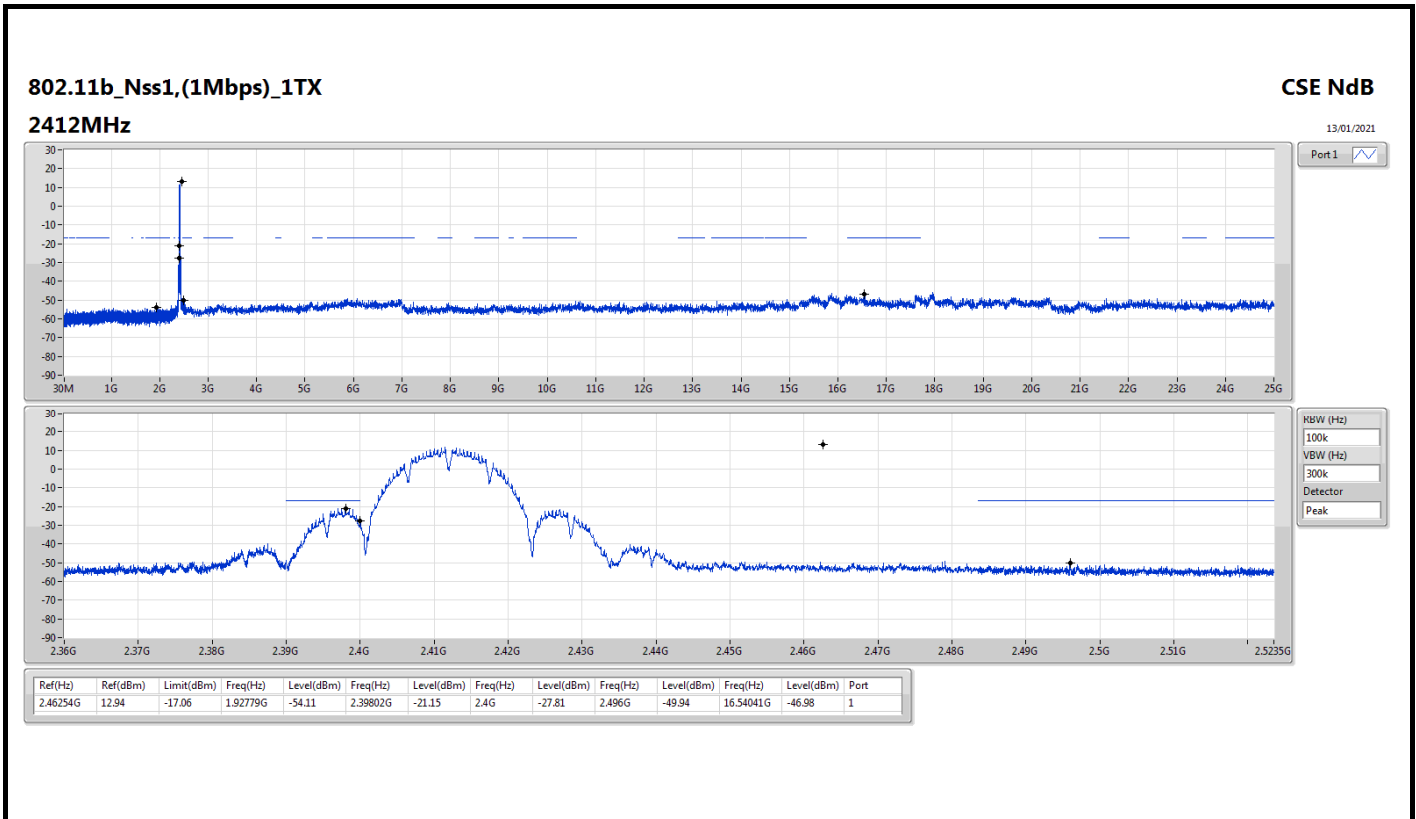


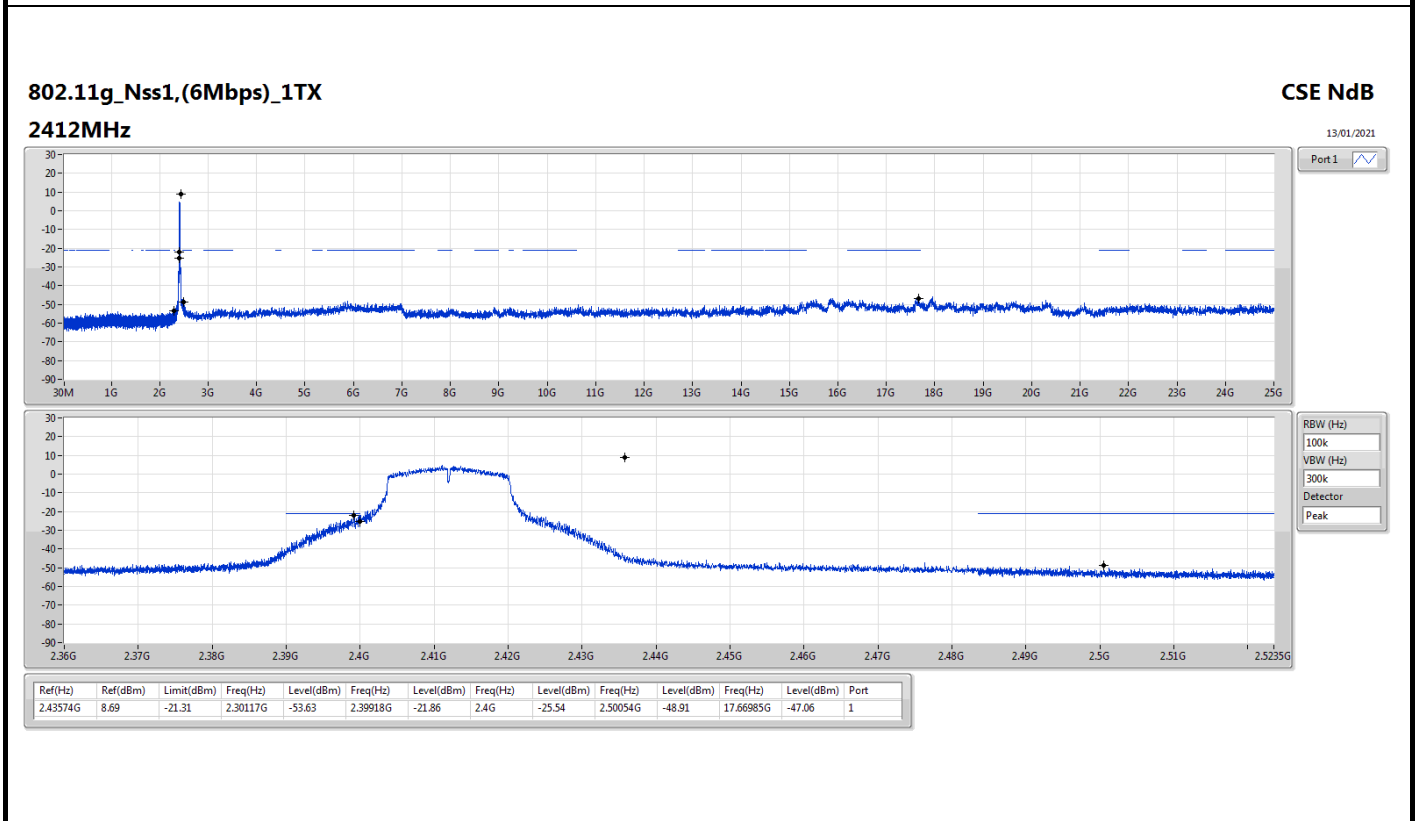
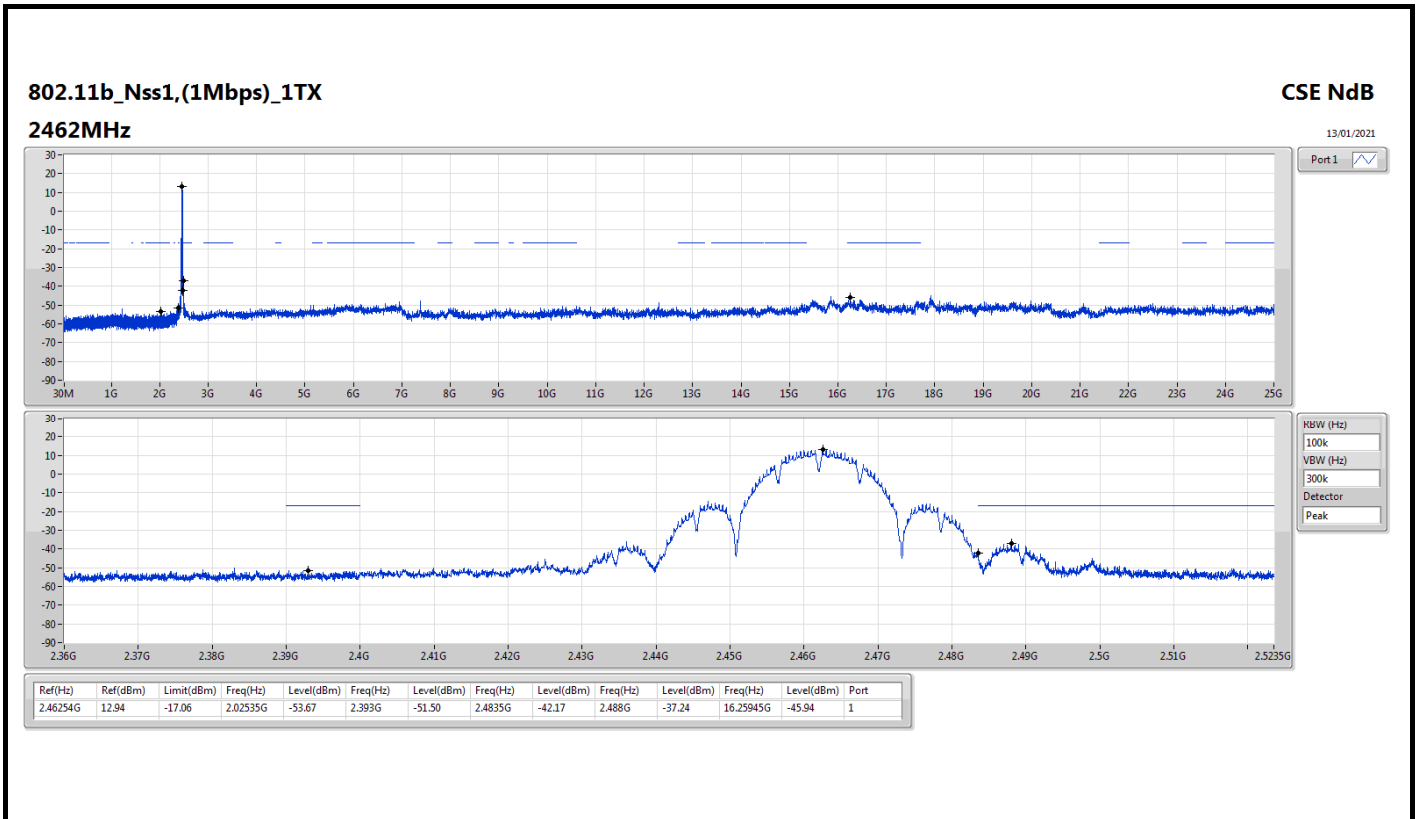
Summary

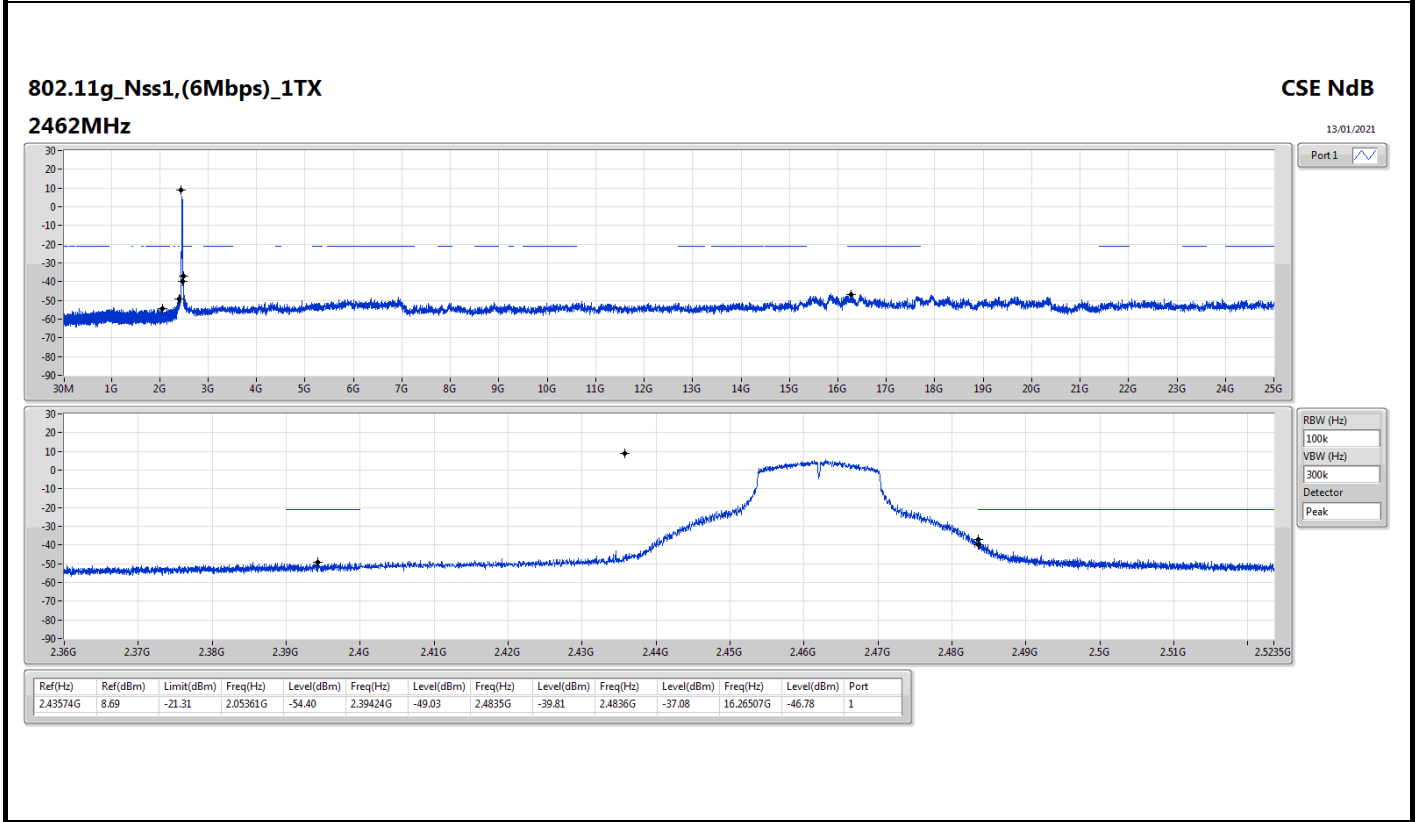
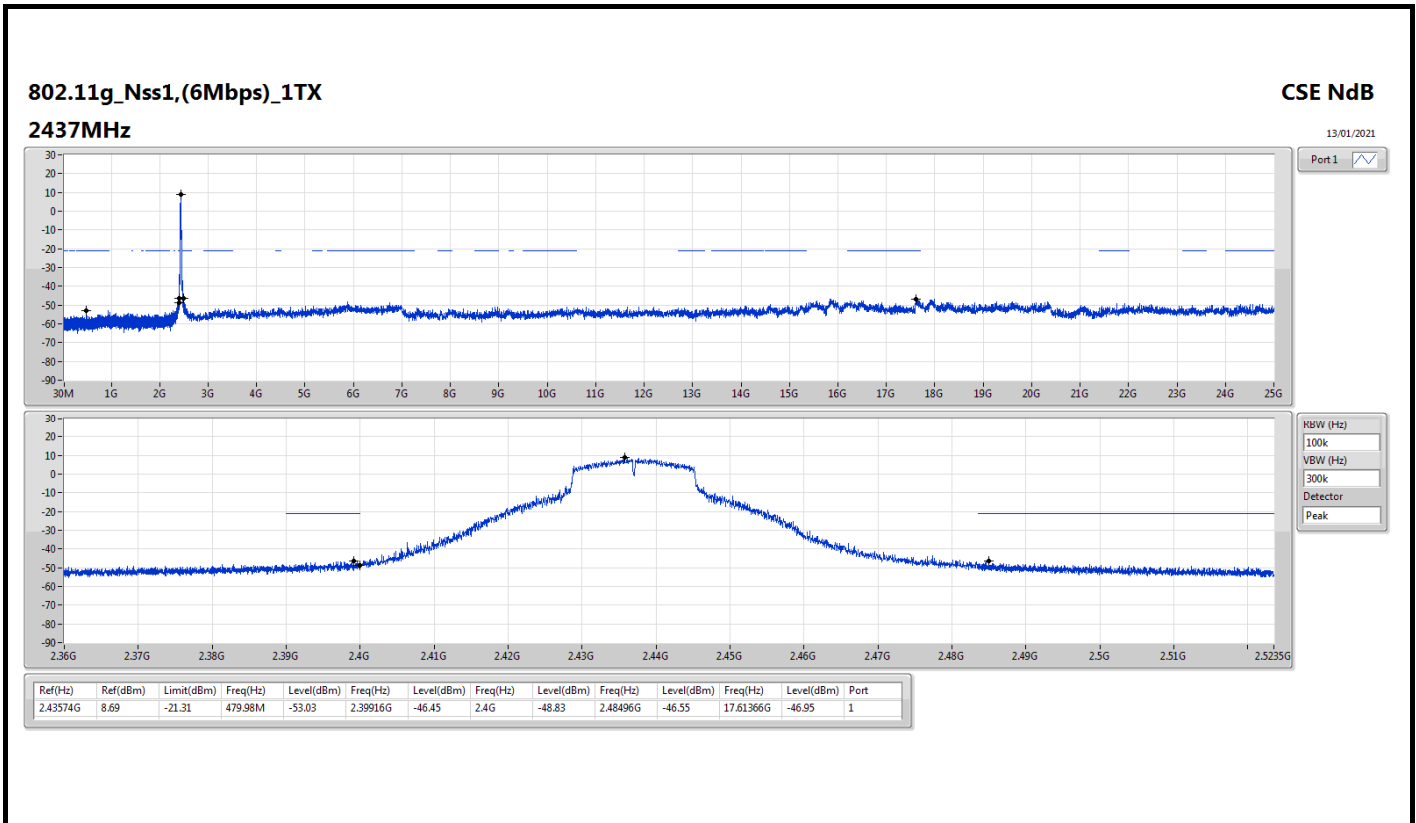
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.46254G	12.94	-17.06	1.92779G	-54.11	2.39802G	-21.15	2.4G	-27.81	2.496G	-49.94	16.54041G	-46.98	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43574G	8.69	-21.31	2.30117G	-53.63	2.39918G	-21.86	2.4G	-25.54	2.50054G	-48.91	17.66985G	-47.06	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43599G	8.53	-21.47	2.30321G	-52.91	2.39978G	-21.61	2.4G	-24.21	2.48506G	-49.61	16.20326G	-46.85	1
802.11n HT40_Nss1,(MCS0)_1TX	Pass	2.43849G	2.62	-27.38	743.62M	-54.10	2.39992G	-30.95	2.4G	-33.05	2.48442G	-41.37	16.36756G	-46.98	1

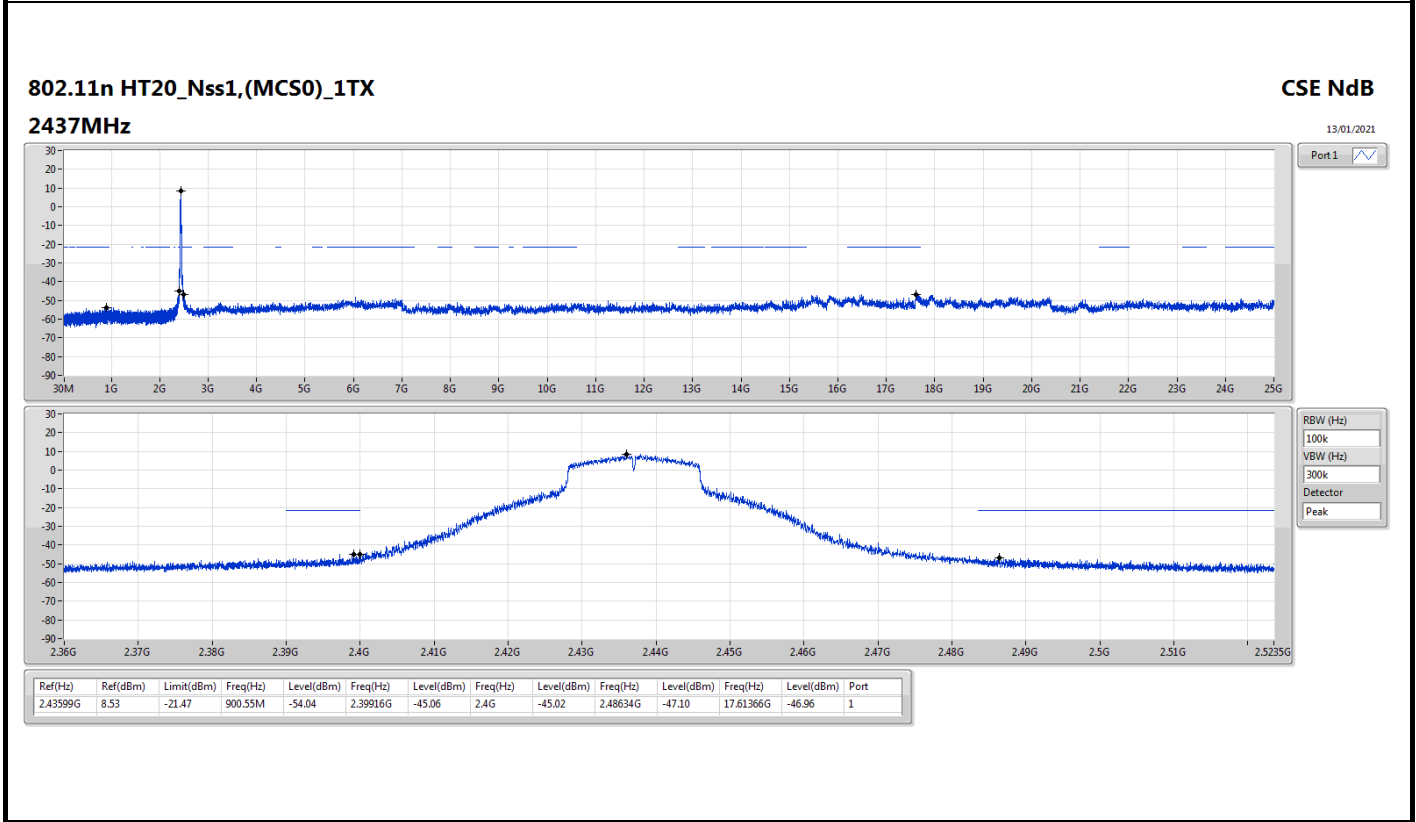
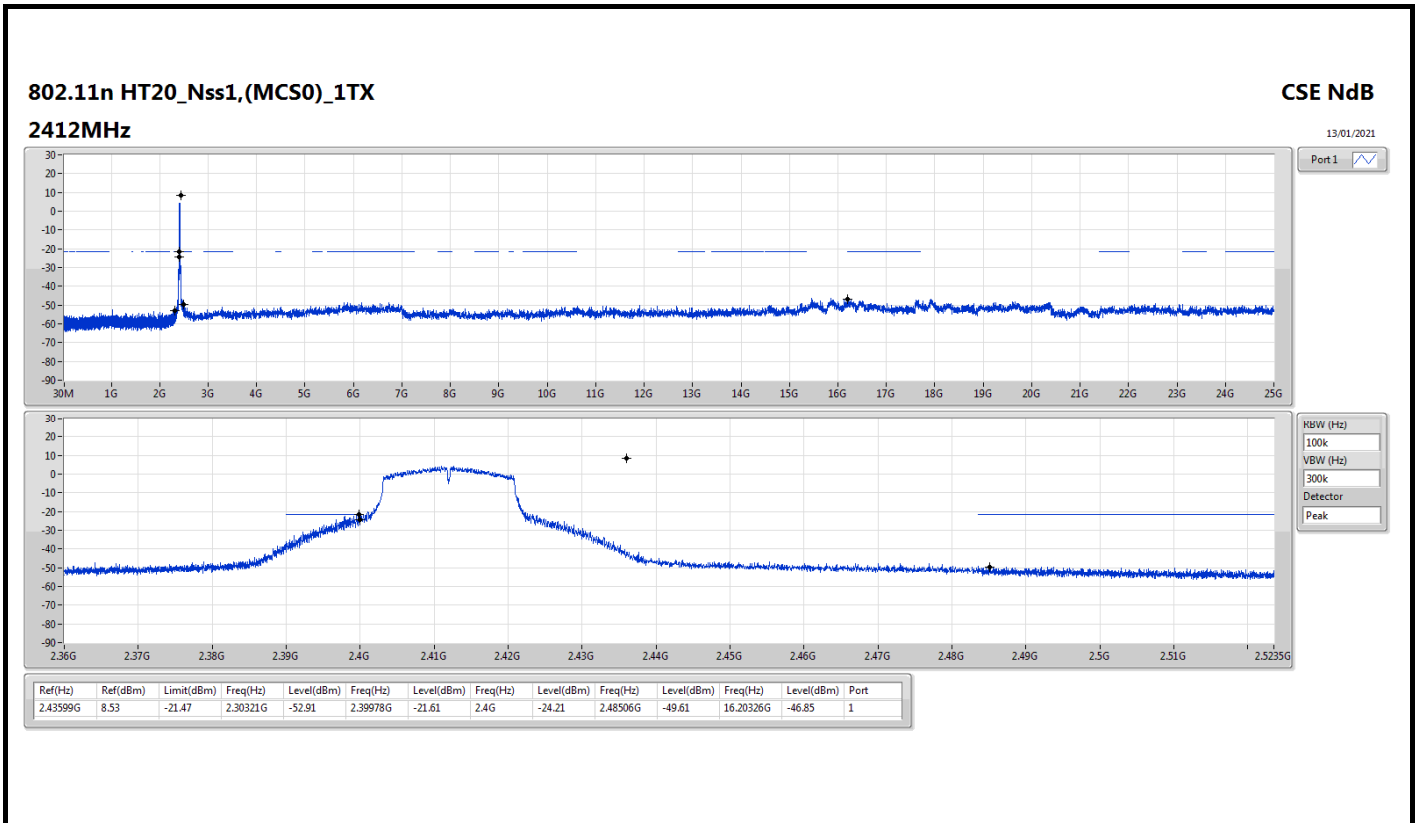
Result

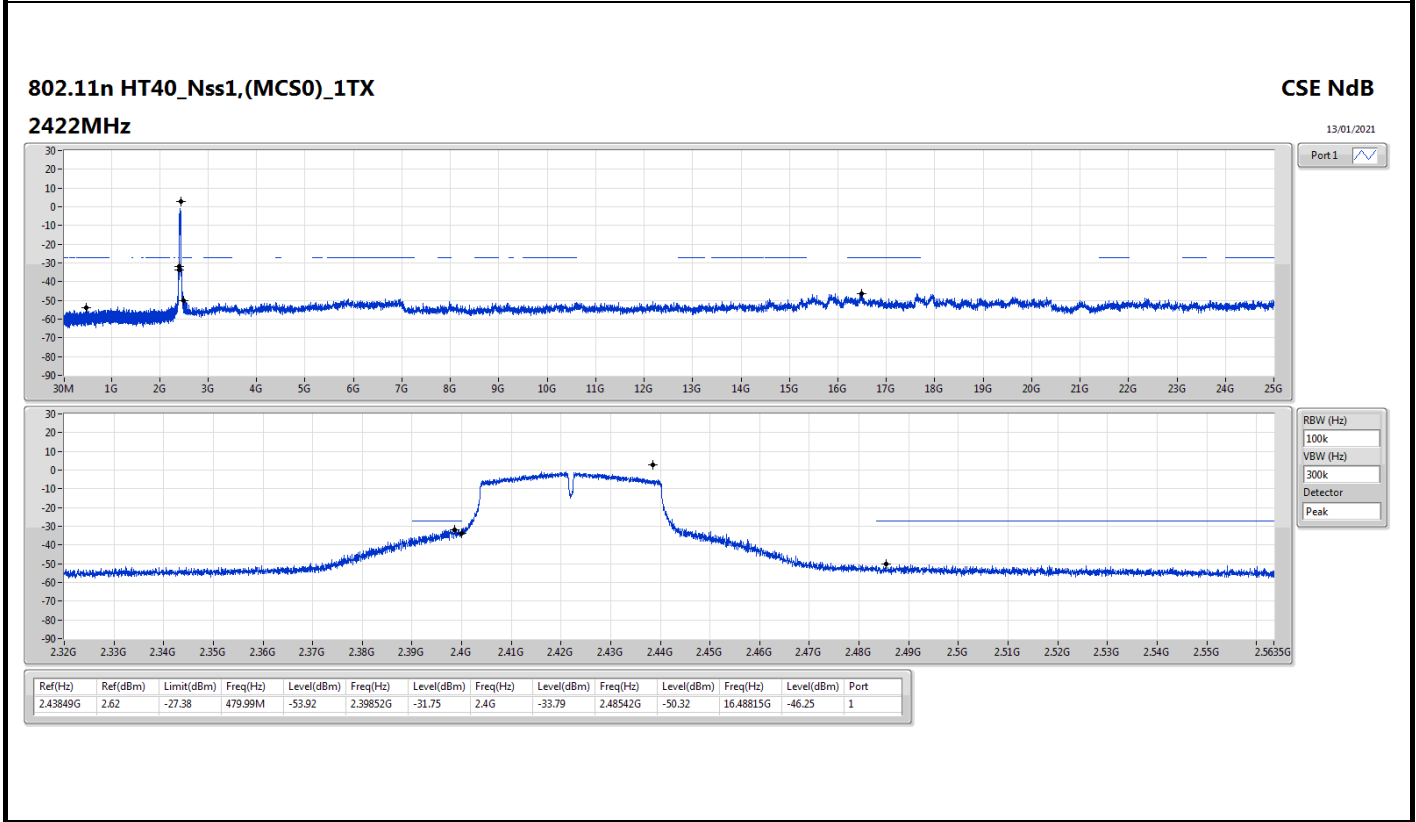
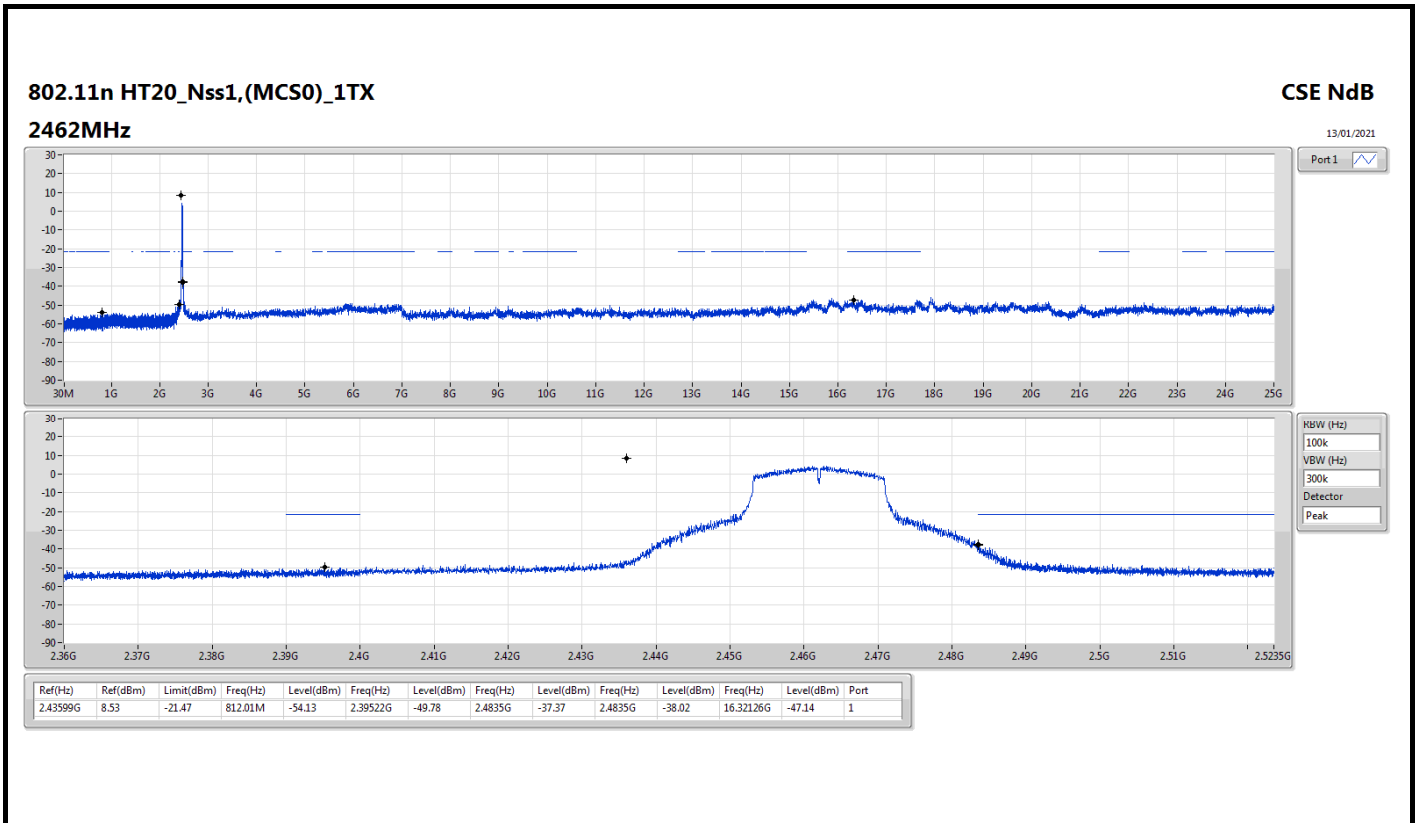
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.46254G	12.94	-17.06	1.92779G	-54.11	2.39802G	-21.15	2.4G	-27.81	2.496G	-49.94	16.54041G	-46.98	1
2437MHz	Pass	2.46254G	12.94	-17.06	2.19894G	-54.03	2.39746G	-50.02	2.4835G	-53.11	2.50682G	-50.05	16.27912G	-47.58	1
2462MHz	Pass	2.46254G	12.94	-17.06	2.02535G	-53.67	2.393G	-51.50	2.4835G	-42.17	2.488G	-37.24	16.25945G	-45.94	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	8.69	-21.31	2.30117G	-53.63	2.39918G	-21.86	2.4G	-25.54	2.50054G	-48.91	17.66985G	-47.06	1
2437MHz	Pass	2.43574G	8.69	-21.31	479.98M	-53.03	2.39916G	-46.45	2.4G	-48.83	2.48496G	-46.55	17.61366G	-46.95	1
2462MHz	Pass	2.43574G	8.69	-21.31	2.05361G	-54.40	2.39424G	-49.03	2.4835G	-39.81	2.4836G	-37.08	16.26507G	-46.78	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	8.53	-21.47	2.30321G	-52.91	2.39978G	-21.61	2.4G	-24.21	2.48506G	-49.61	16.20326G	-46.85	1
2437MHz	Pass	2.43599G	8.53	-21.47	900.55M	-54.04	2.39916G	-45.06	2.4G	-45.02	2.48634G	-47.10	17.61366G	-46.96	1
2462MHz	Pass	2.43599G	8.53	-21.47	812.01M	-54.13	2.39522G	-49.78	2.4835G	-37.37	2.4835G	-38.02	16.32126G	-47.14	1
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43849G	2.62	-27.38	479.99M	-53.92	2.39852G	-31.75	2.4G	-33.79	2.48542G	-50.32	16.48815G	-46.25	1
2437MHz	Pass	2.43849G	2.62	-27.38	743.62M	-54.10	2.39992G	-30.95	2.4G	-33.05	2.48442G	-41.37	16.36756G	-46.98	1
2452MHz	Pass	2.43849G	2.62	-27.38	889.04M	-53.30	2.39664G	-52.20	2.4835G	-41.57	2.48386G	-39.49	16.26659G	-46.26	1

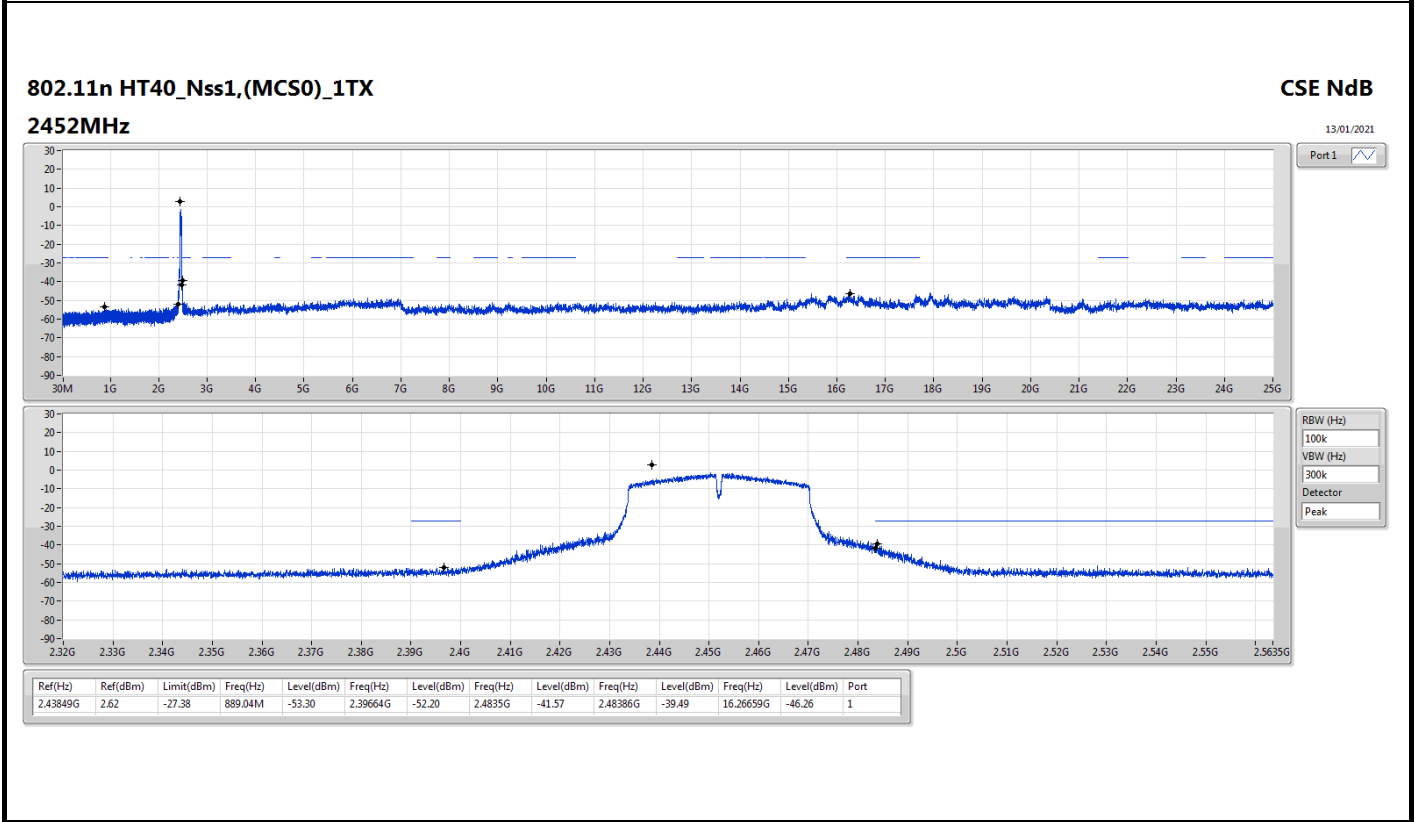
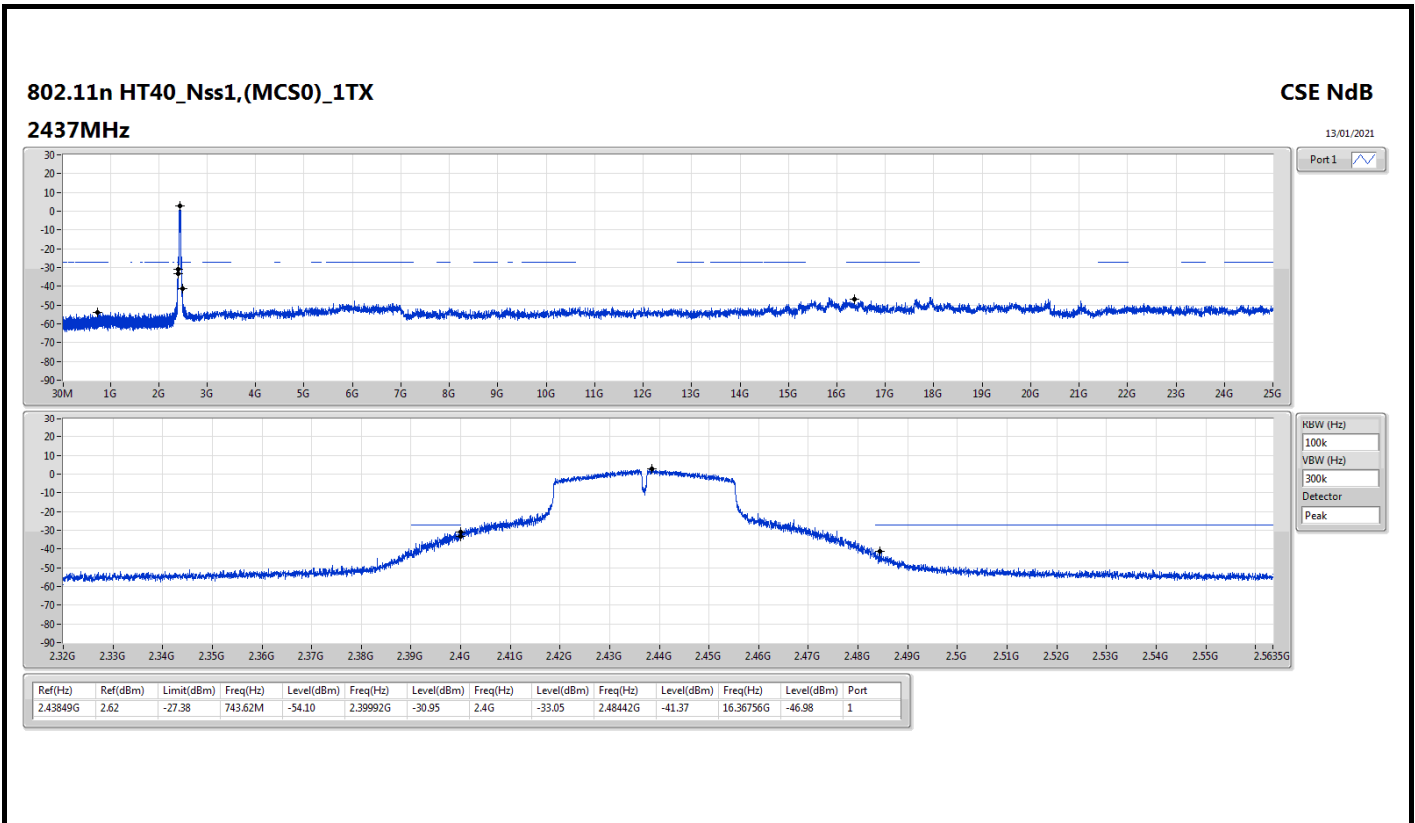












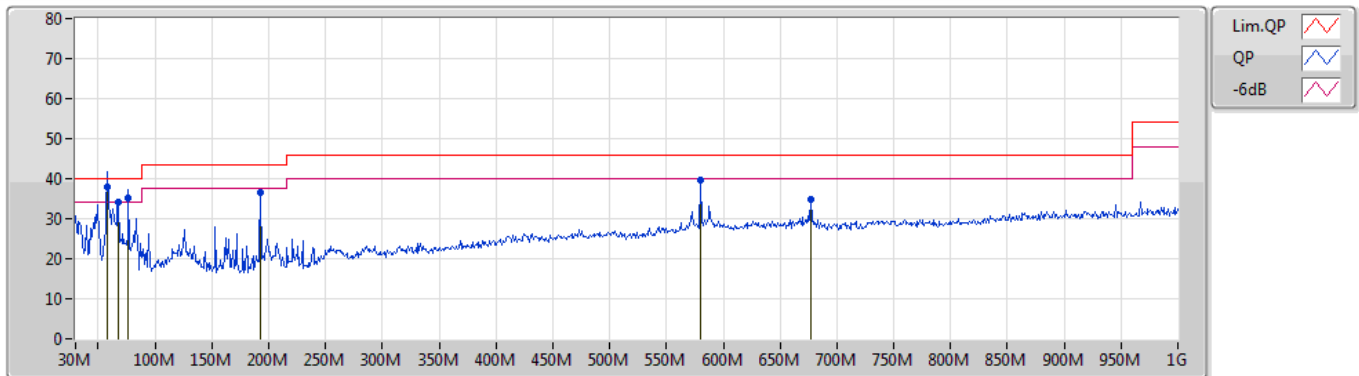


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	QP	58.13M	37.96	40.00	-2.04	Vertical

Mode 2

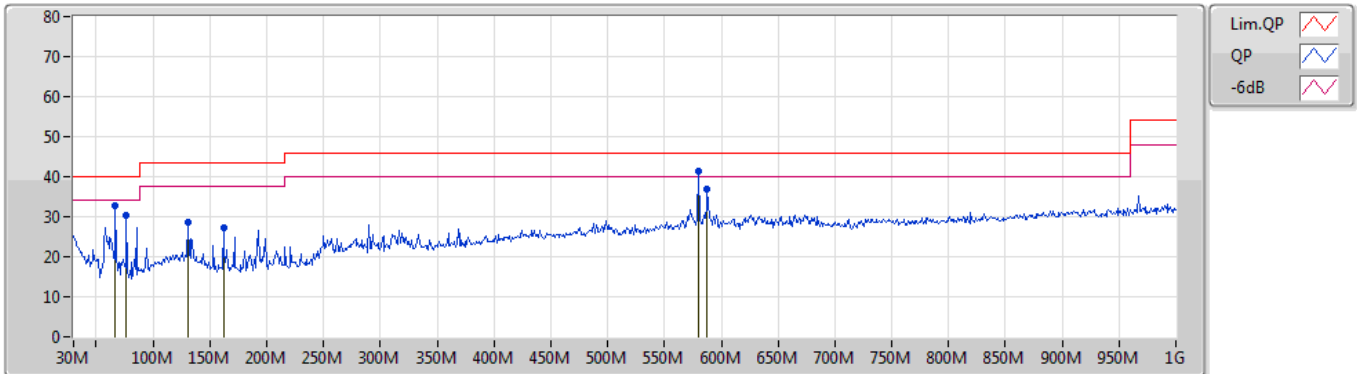
20/05/2021



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	58.13M	37.96	40.00	-2.04	-18.74	3	Vertical	204	1.00	"Worst"	56.70	12.33	0.76	31.83
PK	67.83M	34.17	40.00	-5.83	-19.03	3	Vertical	286	2.00	-	53.20	12.05	0.80	31.88
QP	76.56M	35.14	40.00	-4.86	-18.60	3	Vertical	360	1.50	-	53.74	12.41	0.90	31.91
PK	192.96M	36.65	43.50	-6.85	-15.51	3	Vertical	358	1.00	-	52.16	14.84	1.63	31.98
PK	579.99M	39.60	46.00	-6.40	-5.09	3	Vertical	192	1.25	-	44.69	24.28	3.12	32.49
PK	676.99M	34.73	46.00	-11.27	-4.60	3	Vertical	219	1.25	-	39.33	24.59	3.41	32.60

Mode 2

20/05/2021



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	66.86M	32.90	40.00	-7.10	-19.02	3	Horizontal	169	3.00	-	51.92	12.06	0.80	31.88
PK	76.56M	30.34	40.00	-9.66	-18.60	3	Horizontal	175	1.50	-	48.94	12.41	0.90	31.91
PK	130.88M	28.68	43.50	-14.82	-12.99	3	Horizontal	138	1.25	-	41.67	17.66	1.30	31.95
PK	161.92M	27.41	43.50	-16.09	-14.95	3	Horizontal	195	1.00	-	42.36	15.60	1.41	31.96
PK	579.99M	41.34	46.00	-4.66	-5.09	3	Horizontal	161	2.00	"Worst"	46.43	24.28	3.12	32.49
PK	587.75M	36.98	46.00	-9.02	-5.02	3	Horizontal	0	2.00	-	42.00	24.32	3.15	32.49



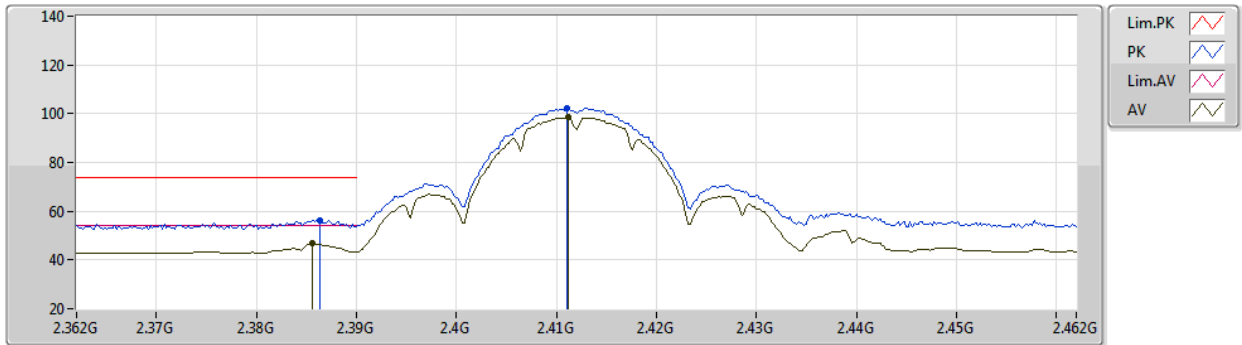
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.87395G	53.99	54.00	-0.01	3	Horizontal	229	2.01	-
802.11g_Nss1,(6Mbps)_1TX	Pass	PK	2.4854G	73.96	74.00	-0.04	3	Horizontal	93	1.01	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.39G	53.88	54.00	-0.12	3	Horizontal	90	1.01	-
802.11n HT40_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	53.94	54.00	-0.06	3	Horizontal	97	1.00	-

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2412MHz_TX



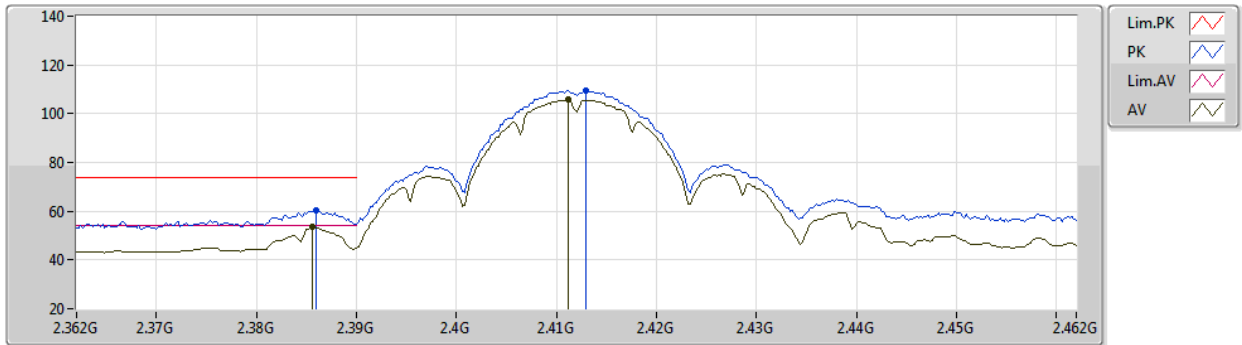
EUT Z_1TX
Setting 36
04-F-B-2

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	2.3864G	56.20	74.00	-17.80	25.53	3	Vertical	137	1.71	-	27.47	3.20	-
AV	2.3856G	46.66	54.00	-7.34	15.99	3	Vertical	137	1.71	-	27.47	3.20	-
PK	2.411G	102.33	Inf	-Inf	71.60	3	Vertical	137	1.71	-	27.52	3.21	-
AV	2.4112G	98.50	Inf	-Inf	67.77	3	Vertical	137	1.71	-	27.52	3.21	-

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2412MHz_TX



EUT Z_1TX
Setting 36
04-F-B-2

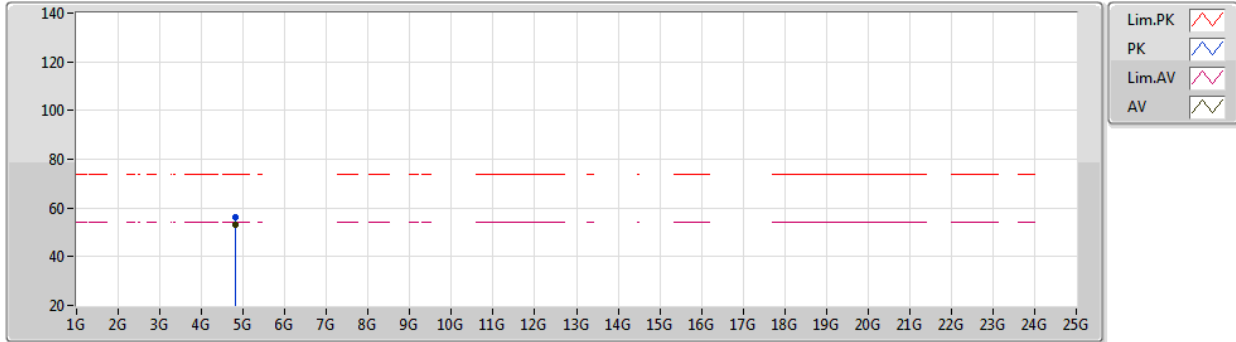
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	60.39	74.00	-13.61	29.72	3	Horizontal	87	1.00	-	27.47	3.20	-
AV	2.3856G	53.57	54.00	-0.43	22.90	3	Horizontal	87	1.00	-	27.47	3.20	-
PK	2.413G	109.56	Inf	-Inf	78.82	3	Horizontal	87	1.00	-	27.53	3.21	-
AV	2.4112G	105.69	Inf	-Inf	74.96	3	Horizontal	87	1.00	-	27.52	3.21	-



802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2412MHz_TX



EUT Y_1TX
Setting 36
04-F-B-2

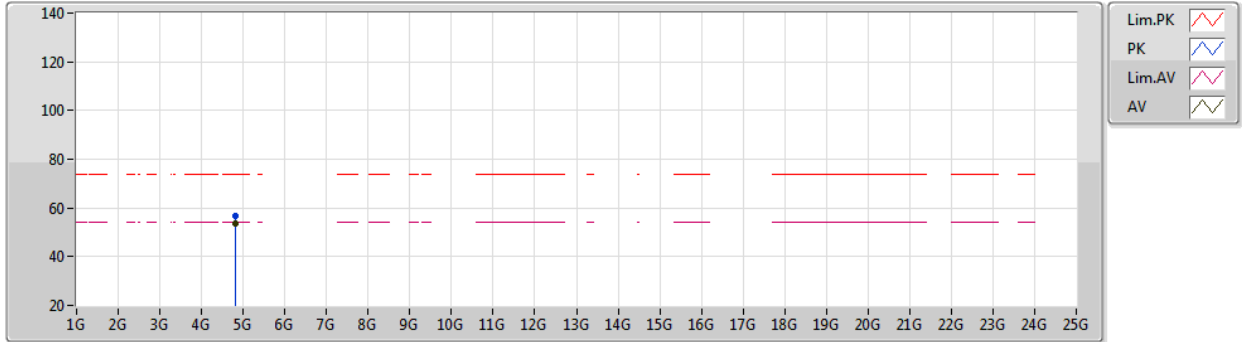
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82402G	56.25	74.00	-17.75	51.18	3	Vertical	356	2.02	-	32.54	5.41	32.88
AV	4.82396G	53.11	54.00	-0.89	48.04	3	Vertical	356	2.02	-	32.54	5.41	32.88



802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2412MHz_TX



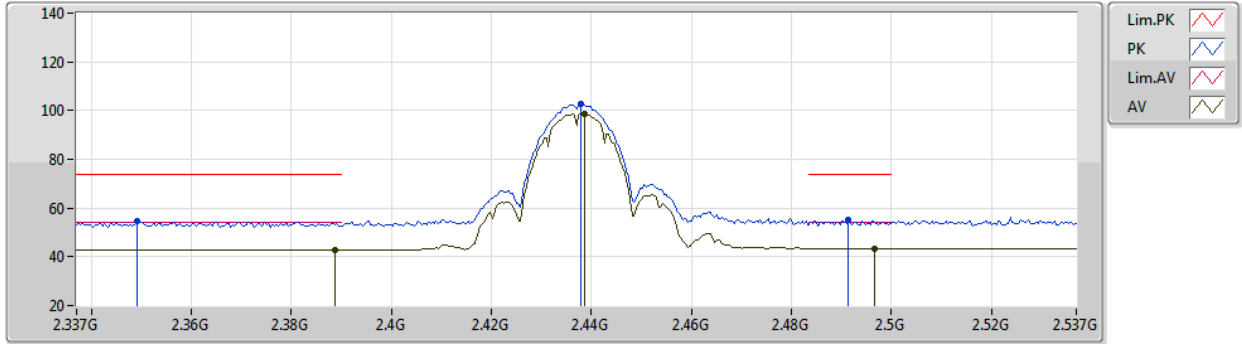
EUT Y_1TX
Setting 36
04-F-B-2

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	4.82402G	56.66	74.00	-17.34	51.59	3	Horizontal	55	1.78	-	32.54	5.41	32.88
AV	4.82396G	53.64	54.00	-0.36	48.57	3	Horizontal	55	1.78	-	32.54	5.41	32.88

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2437MHz_TX



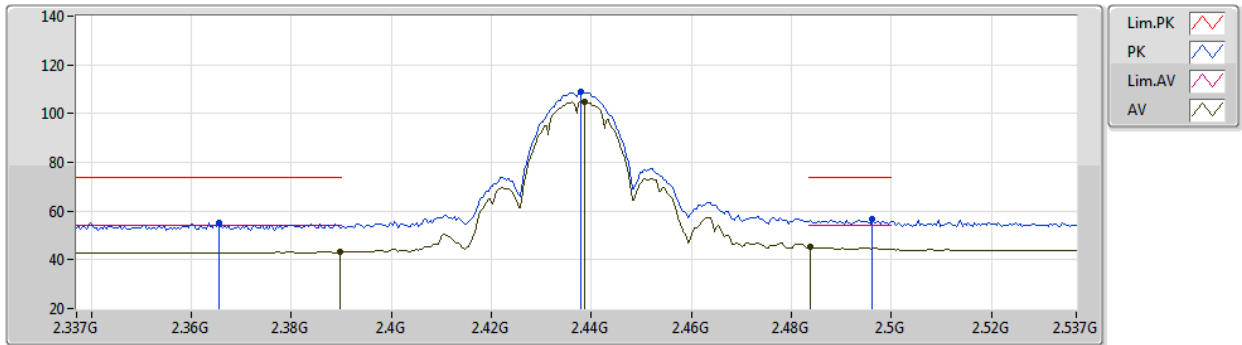
EUT Z_1TX
Setting 36
04-F-B-2

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	2.349G	54.60	74.00	-19.40	24.00	3	Vertical	138	1.65	-	27.40	3.20	-
AV	2.3886G	42.84	54.00	-11.16	12.16	3	Vertical	138	1.65	-	27.48	3.20	-
PK	2.4378G	102.82	Inf	-Inf	72.00	3	Vertical	138	1.65	-	27.58	3.24	-
AV	2.4386G	98.74	Inf	-Inf	67.92	3	Vertical	138	1.65	-	27.58	3.24	-
PK	2.4914G	54.95	74.00	-19.05	23.89	3	Vertical	138	1.65	-	27.77	3.29	-
AV	2.4966G	43.45	54.00	-10.55	12.36	3	Vertical	138	1.65	-	27.79	3.30	-

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2437MHz_TX



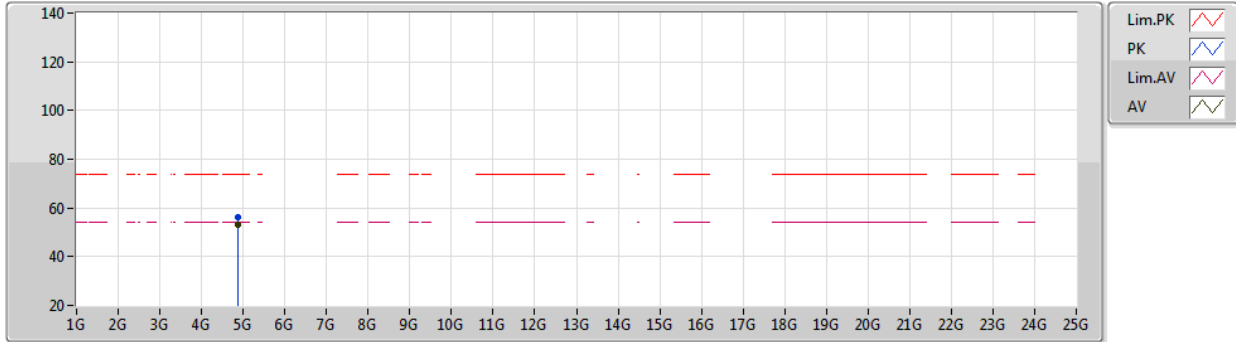
EUT Z_1TX
Setting 36
04-F-B-2

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	2.3654G	55.23	74.00	-18.77	24.60	3	Horizontal	89	1.00	-	27.43	3.20	-
AV	2.3898G	43.11	54.00	-10.89	12.43	3	Horizontal	89	1.00	-	27.48	3.20	-
PK	2.4378G	109.05	Inf	-Inf	78.23	3	Horizontal	89	1.00	-	27.58	3.24	-
AV	2.4386G	105.07	Inf	-Inf	74.25	3	Horizontal	89	1.00	-	27.58	3.24	-
PK	2.4962G	56.76	74.00	-17.24	25.68	3	Horizontal	89	1.00	-	27.78	3.30	-
AV	2.4838G	45.22	54.00	-8.78	14.20	3	Horizontal	89	1.00	-	27.74	3.28	-

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2437MHz_TX



EUT Y_1TX
Setting 36
04-F-B-2

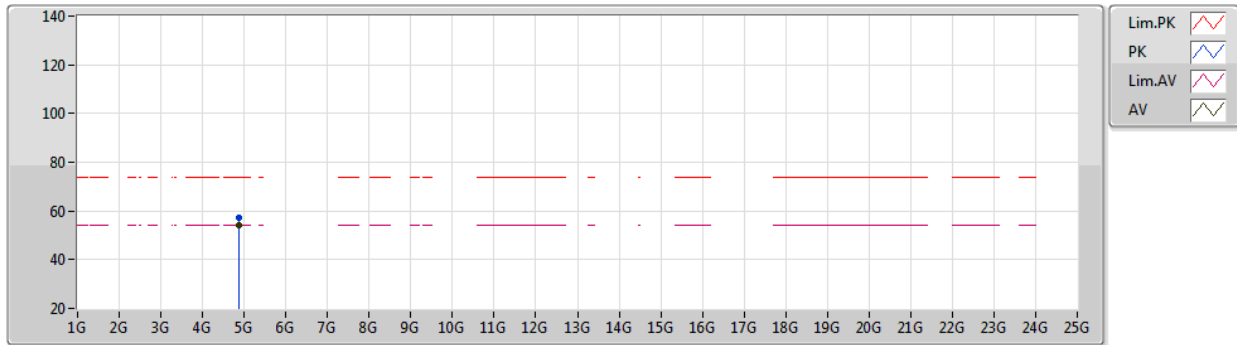
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	56.10	74.00	-17.90	50.78	3	Vertical	171	1.98	-	32.75	5.44	32.87
AV	4.87397G	52.90	54.00	-1.10	47.58	3	Vertical	171	1.98	-	32.75	5.44	32.87



802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2437MHz_TX



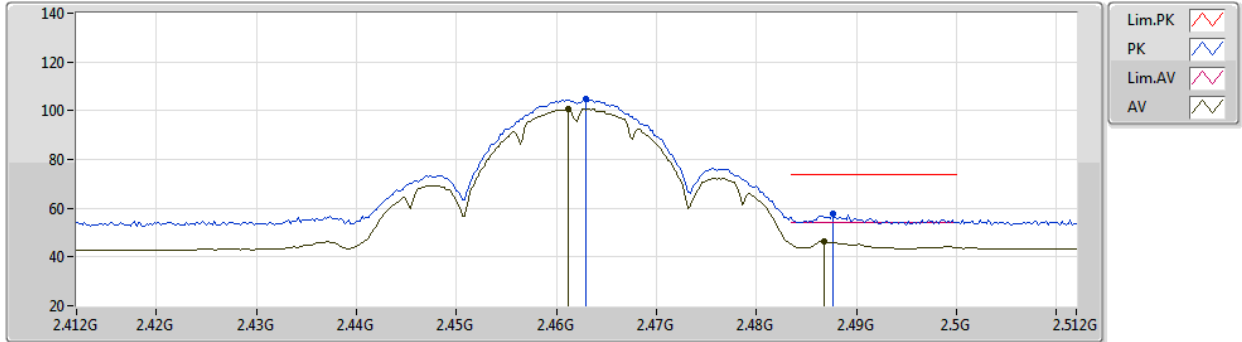
EUT Y_1TX
Setting 36
04-F-B-2

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)
AV	4.87395G	53.99	54.00	-0.01	48.67	3	Horizontal	229	2.01	-	32.75	5.44	32.87
PK	4.87406G	57.18	74.00	-16.82	51.86	3	Horizontal	229	2.01	-	32.75	5.44	32.87

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2462MHz_TX



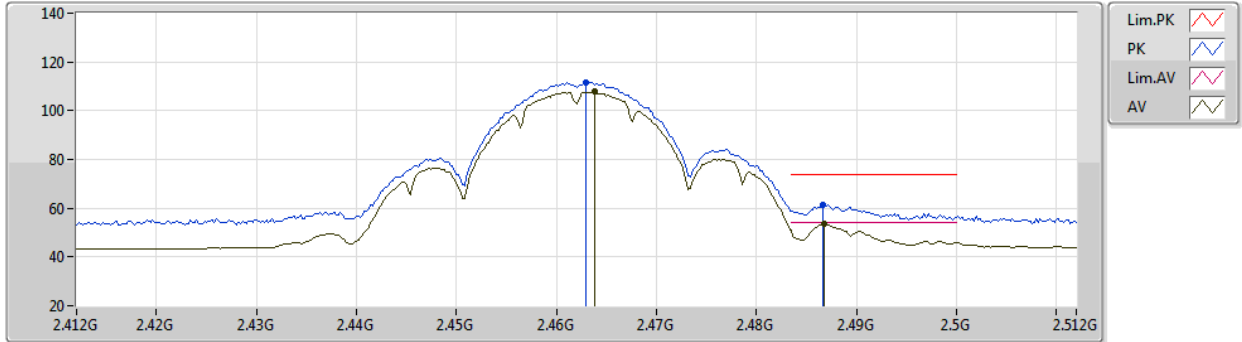
EUT Z_1TX
Setting 40
04-F-B-2

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	2.463G	104.62	Inf	-Inf	73.71	3	Vertical	131	1.65	-	27.65	3.26	-
AV	2.4612G	100.67	Inf	-Inf	69.77	3	Vertical	131	1.65	-	27.64	3.26	-
PK	2.4876G	57.91	74.00	-16.09	26.87	3	Vertical	131	1.65	-	27.75	3.29	-
AV	2.4868G	46.52	54.00	-7.48	15.48	3	Vertical	131	1.65	-	27.75	3.29	-

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2462MHz_TX



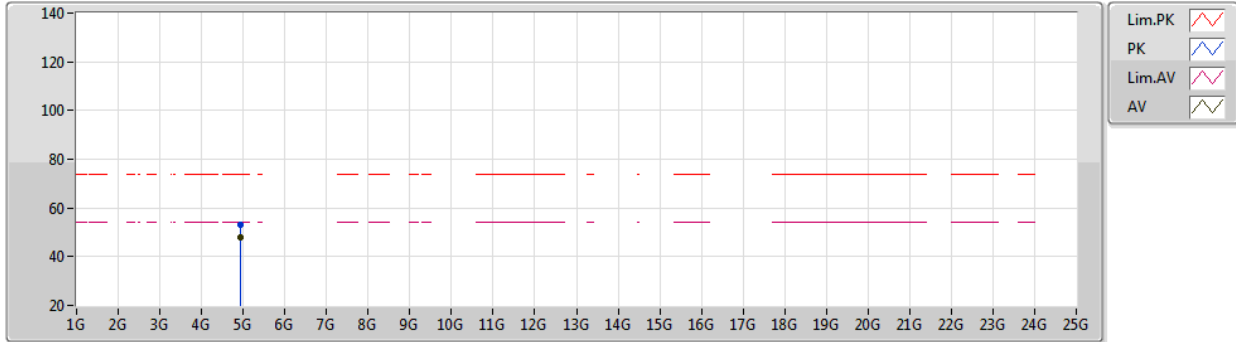
EUT Z_1TX
Setting 40
04-F-B-2

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	2.463G	111.71	Inf	-Inf	80.80	3	Horizontal	168	1.00	-	27.65	3.26	-
AV	2.4638G	107.68	Inf	-Inf	76.76	3	Horizontal	168	1.00	-	27.66	3.26	-
PK	2.4866G	61.48	74.00	-12.52	30.44	3	Horizontal	168	1.00	-	27.75	3.29	-
AV	2.4868G	53.87	54.00	-0.13	22.83	3	Horizontal	168	1.00	-	27.75	3.29	-

802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2462MHz_TX



EUT Y_1TX
Setting 40
04-F-B-2

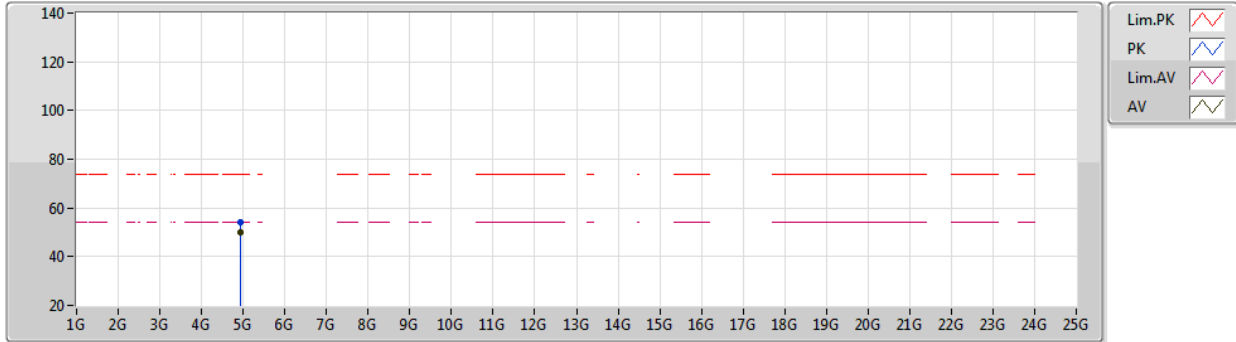
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92406G	53.13	74.00	-20.87	47.63	3	Vertical	275	1.99	-	32.90	5.46	32.86
AV	4.92397G	48.00	54.00	-6.00	42.50	3	Vertical	275	1.99	-	32.90	5.46	32.86



802.11b_Nss1,(1Mbps)_1TX

11/01/2021

2462MHz_TX



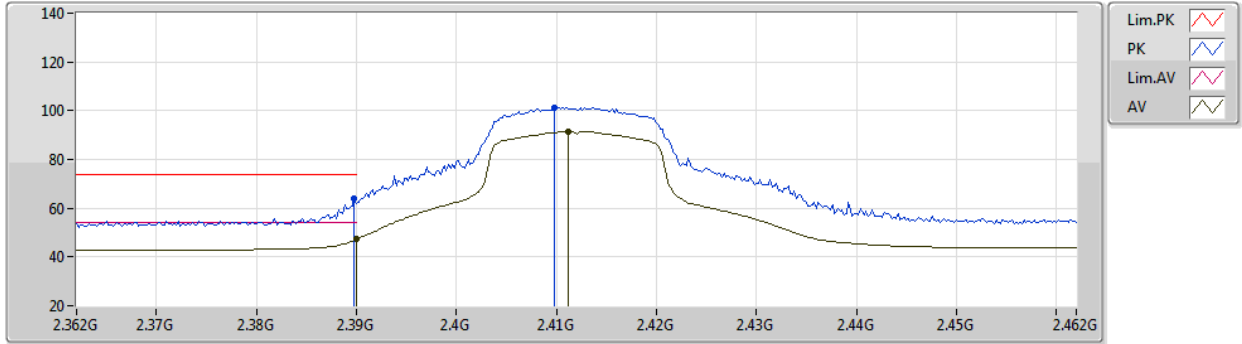
EUT Y_1TX
Setting 40
04-F-B-2

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	4.92399G	54.17	74.00	-19.83	48.67	3	Horizontal	57	1.97	-	32.90	5.46	32.86
AV	4.92396G	50.07	54.00	-3.93	44.57	3	Horizontal	57	1.97	-	32.90	5.46	32.86

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2412MHz_TX



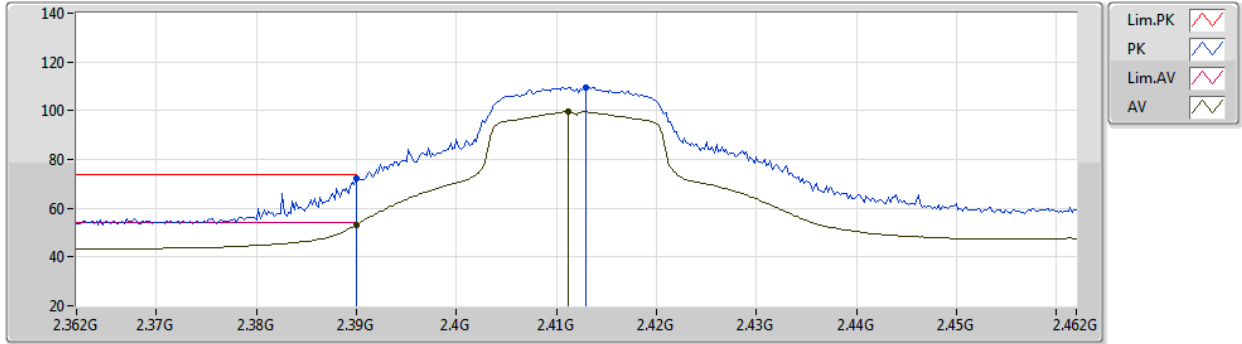
EUT Z_1TX
Setting 33
04-F-B-2

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	2.3898G	63.90	74.00	-10.10	33.22	3	Vertical	137	1.69	-	27.48	3.20	-
AV	2.39G	47.16	54.00	-6.84	16.48	3	Vertical	137	1.69	-	27.48	3.20	-
PK	2.4098G	101.41	Inf	-Inf	70.68	3	Vertical	137	1.69	-	27.52	3.21	-
AV	2.4112G	91.49	Inf	-Inf	60.76	3	Vertical	137	1.69	-	27.52	3.21	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2412MHz_TX



EUT Z_1TX
Setting 33
04-F-B-2

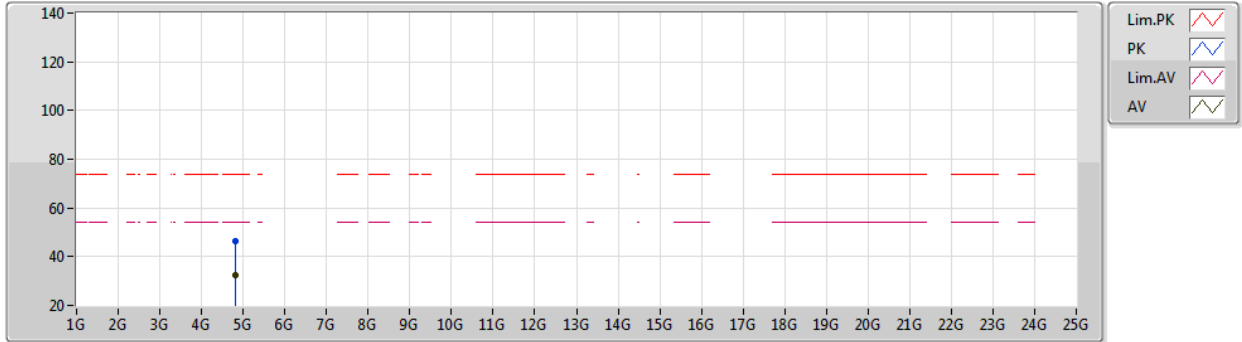
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	72.39	74.00	-1.61	41.71	3	Horizontal	88	1.00	-	27.48	3.20	-
AV	2.39G	53.29	54.00	-0.71	22.61	3	Horizontal	88	1.00	-	27.48	3.20	-
PK	2.413G	109.56	Inf	-Inf	78.82	3	Horizontal	88	1.00	-	27.53	3.21	-
AV	2.4112G	99.50	Inf	-Inf	68.77	3	Horizontal	88	1.00	-	27.52	3.21	-



802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2412MHz_TX



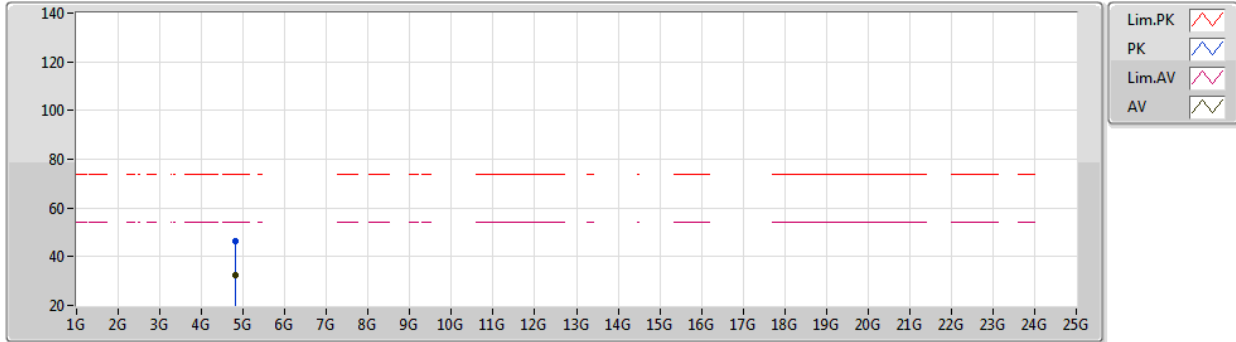
EUT Y_1TX
Setting 33
04-F-B-2

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	4.82243G	46.61	74.00	-27.39	41.55	3	Vertical	277	2.01	-	32.53	5.41	32.88
AV	4.82348G	32.60	54.00	-21.40	27.53	3	Vertical	277	2.01	-	32.54	5.41	32.88

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2412MHz_TX



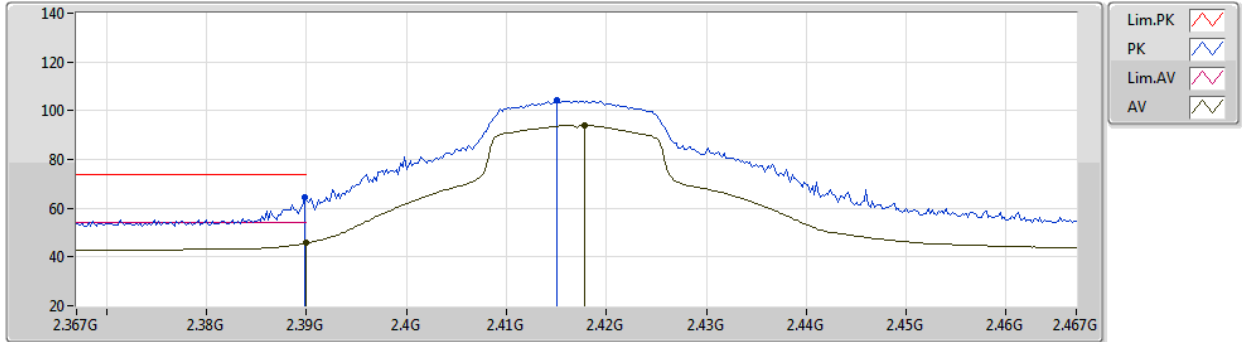
EUT Y_1TX
Setting 33
04-F-B-2

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	4.82444G	46.53	74.00	-27.47	41.45	3	Horizontal	59	1.98	-	32.55	5.41	32.88
AV	4.82375G	32.57	54.00	-21.43	27.50	3	Horizontal	59	1.98	-	32.54	5.41	32.88

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2417MHz_TX



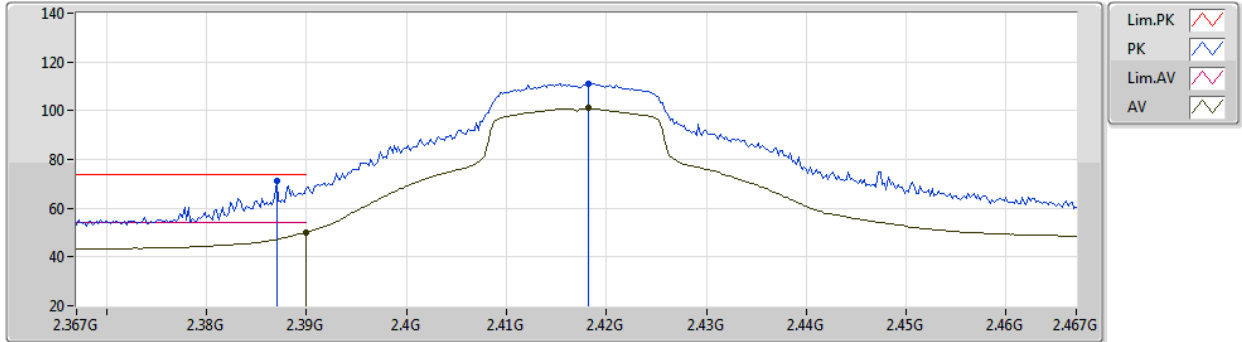
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3898G	64.25	74.00	-9.75	33.57	3	Vertical	140	1.70	-	27.48	3.20	-
AV	2.39G	45.70	54.00	-8.30	15.02	3	Vertical	140	1.70	-	27.48	3.20	-
PK	2.415G	104.26	Inf	-Inf	73.52	3	Vertical	140	1.70	-	27.53	3.21	-
AV	2.4178G	94.10	Inf	-Inf	63.34	3	Vertical	140	1.70	-	27.54	3.22	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2417MHz_TX



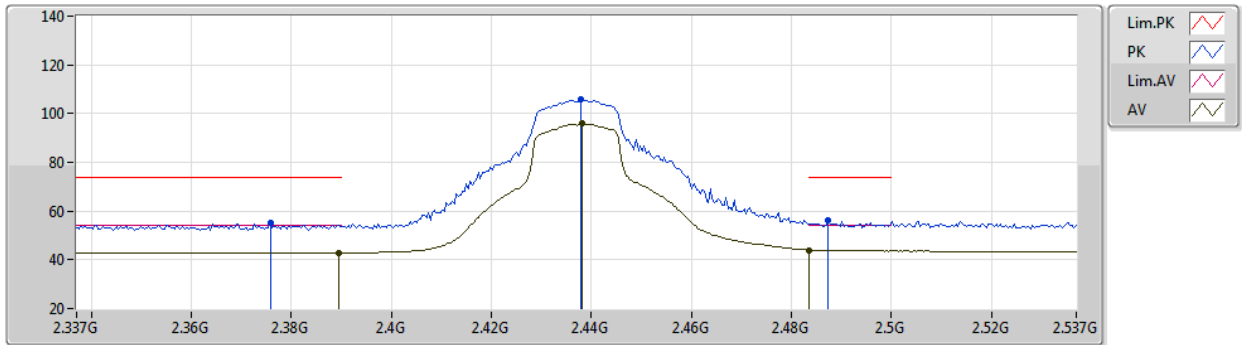
EUT Z_1TX
Setting 40
04-F-B-2

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	2.387G	71.38	74.00	-2.62	40.71	3	Horizontal	89	1.00	-	27.47	3.20	-
AV	2.39G	50.17	54.00	-3.83	19.49	3	Horizontal	89	1.00	-	27.48	3.20	-
PK	2.4182G	111.02	Inf	-Inf	80.26	3	Horizontal	89	1.00	-	27.54	3.22	-
AV	2.4182G	100.97	Inf	-Inf	70.21	3	Horizontal	89	1.00	-	27.54	3.22	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2437MHz_TX



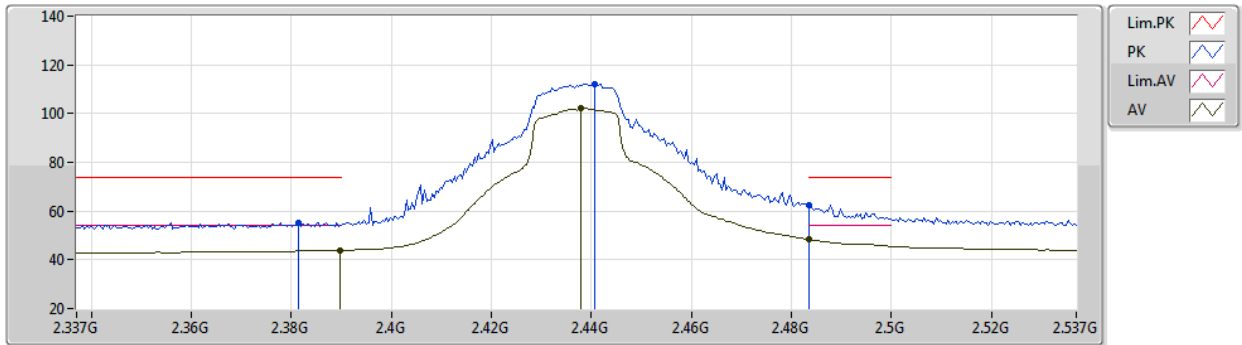
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3758G	55.17	74.00	-18.83	24.52	3	Vertical	138	1.65	-	27.45	3.20	-
AV	2.3894G	42.93	54.00	-11.07	12.25	3	Vertical	138	1.65	-	27.48	3.20	-
PK	2.4378G	105.68	Inf	-Inf	74.86	3	Vertical	138	1.65	-	27.58	3.24	-
AV	2.4382G	95.90	Inf	-Inf	65.08	3	Vertical	138	1.65	-	27.58	3.24	-
PK	2.4874G	56.15	74.00	-17.85	25.11	3	Vertical	138	1.65	-	27.75	3.29	-
AV	2.4835G	43.95	54.00	-10.05	12.94	3	Vertical	138	1.65	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2437MHz_TX



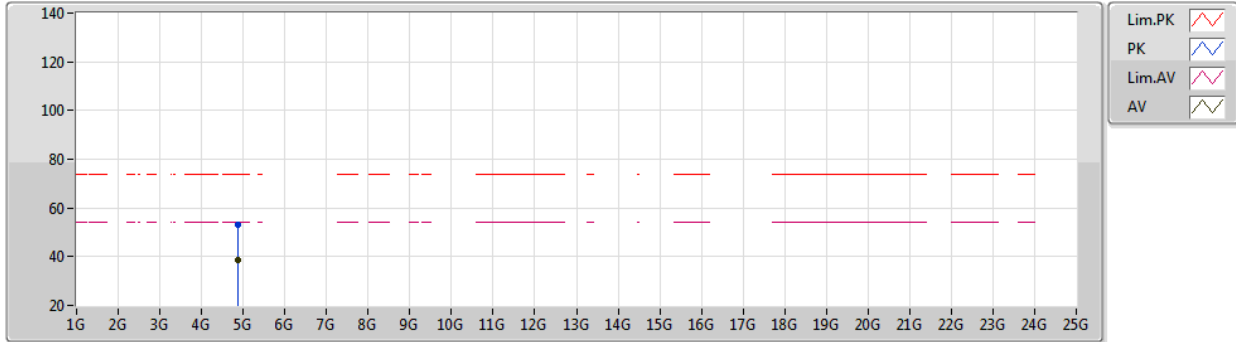
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3814G	55.35	74.00	-18.65	24.69	3	Horizontal	89	1.00	-	27.46	3.20	-
AV	2.3898G	43.85	54.00	-10.15	13.17	3	Horizontal	89	1.00	-	27.48	3.20	-
PK	2.4406G	112.27	Inf	-Inf	81.45	3	Horizontal	89	1.00	-	27.58	3.24	-
AV	2.4378G	102.24	Inf	-Inf	71.42	3	Horizontal	89	1.00	-	27.58	3.24	-
PK	2.4835G	62.43	74.00	-11.57	31.42	3	Horizontal	89	1.00	-	27.73	3.28	-
AV	2.4835G	48.35	54.00	-5.65	17.34	3	Horizontal	89	1.00	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2437MHz_TX



EUT Y_1TX
Setting 40
04-F-B-2

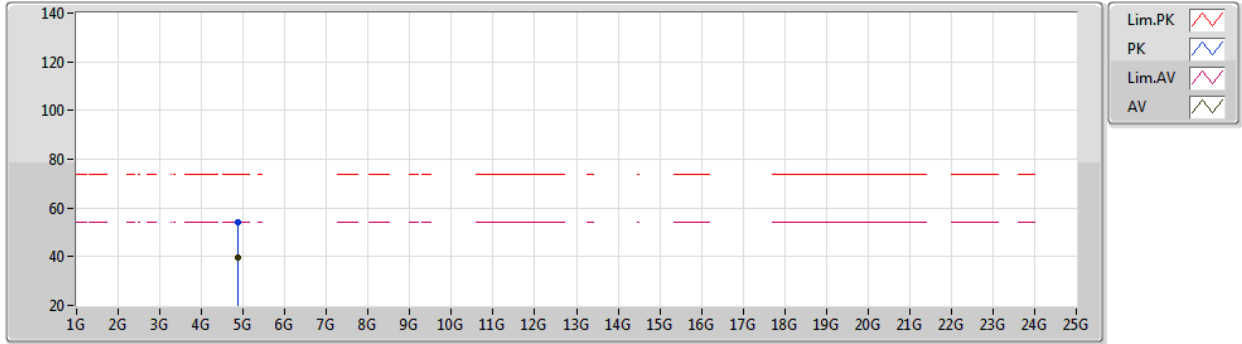
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87142G	52.91	74.00	-21.09	47.60	3	Vertical	167	1.88	-	32.74	5.44	32.87
AV	4.87502G	38.79	54.00	-15.21	33.47	3	Vertical	167	1.88	-	32.75	5.44	32.87



802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2437MHz_TX



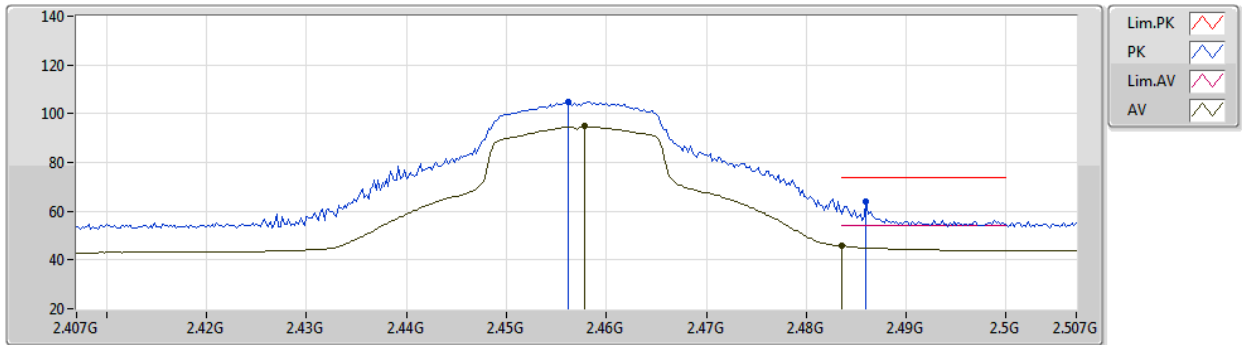
EUT Y_1TX
Setting 40
04-F-B-2

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	4.87718G	53.92	74.00	-20.08	48.60	3	Horizontal	219	1.98	-	32.75	5.44	32.87
AV	4.8752G	39.42	54.00	-14.58	34.10	3	Horizontal	219	1.98	-	32.75	5.44	32.87

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2457MHz_TX



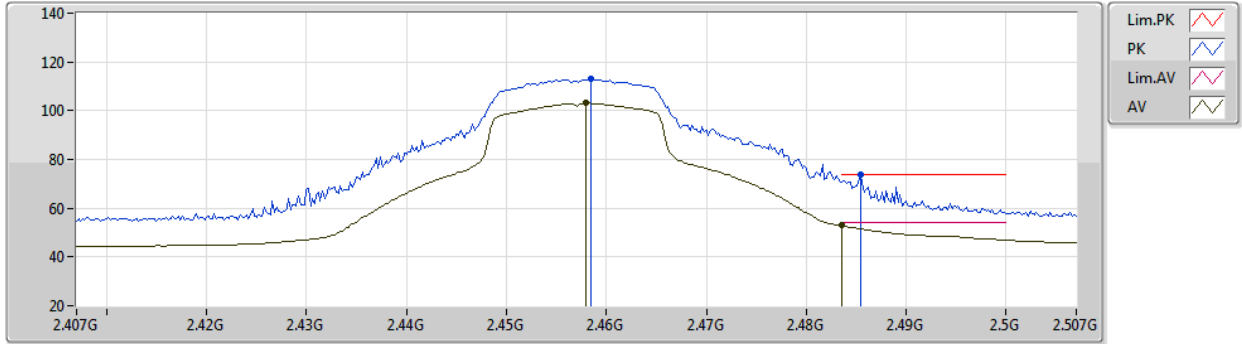
EUT Z_1TX
Setting 38
04-F-B-2

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	2.4562G	104.77	Inf	-Inf	73.89	3	Vertical	138	1.62	-	27.62	3.26	-
AV	2.4578G	94.76	Inf	-Inf	63.87	3	Vertical	138	1.62	-	27.63	3.26	-
PK	2.486G	63.82	74.00	-10.18	32.79	3	Vertical	138	1.62	-	27.74	3.29	-
AV	2.4835G	45.77	54.00	-8.23	14.76	3	Vertical	138	1.62	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2457MHz_TX



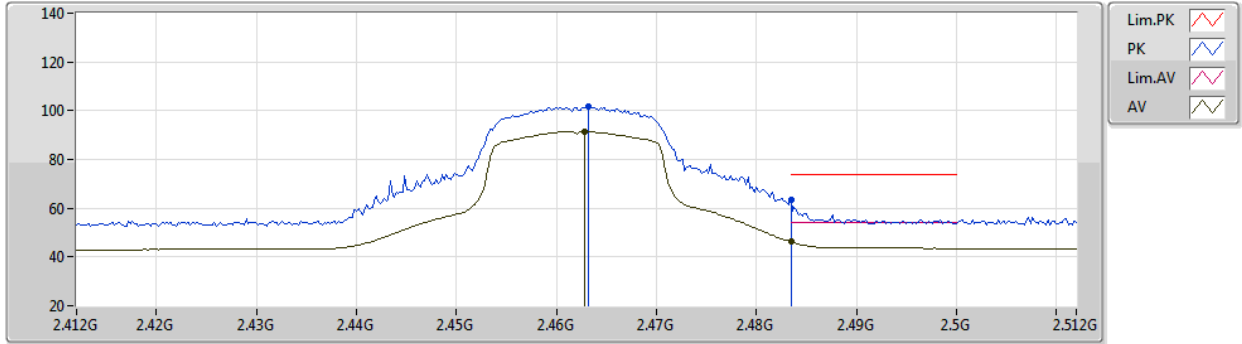
EUT Z_1TX
Setting 38
04-F-B-2

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	2.4584G	113.05	Inf	-Inf	82.16	3	Horizontal	93	1.01	-	27.63	3.26	-
AV	2.458G	103.03	Inf	-Inf	72.14	3	Horizontal	93	1.01	-	27.63	3.26	-
PK	2.4854G	73.96	74.00	-0.04	42.93	3	Horizontal	93	1.01	-	27.74	3.29	-
AV	2.4835G	52.89	54.00	-1.11	21.88	3	Horizontal	93	1.01	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2462MHz_TX



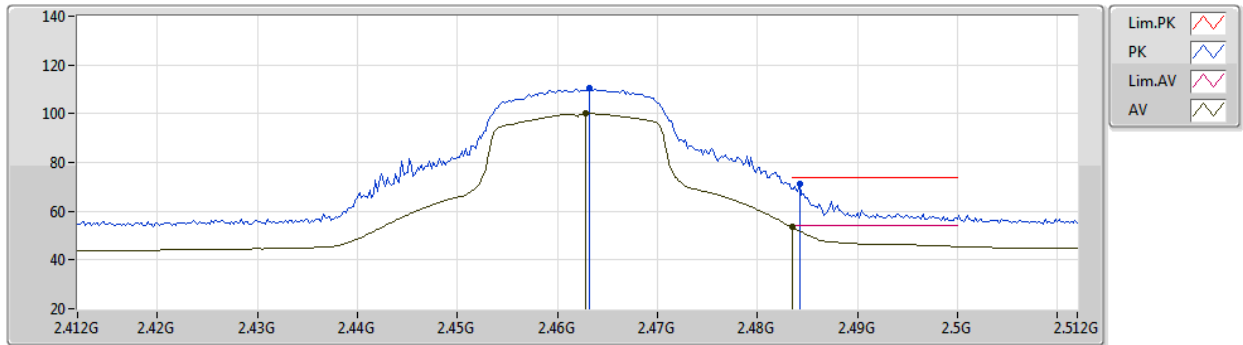
EUT Z_1TX
Setting 33
04-F-B-2

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	2.4632G	101.76	Inf	-Inf	70.85	3	Vertical	137	1.62	-	27.65	3.26	-
AV	2.4628G	91.56	Inf	-Inf	60.65	3	Vertical	137	1.62	-	27.65	3.26	-
PK	2.4835G	63.46	74.00	-10.54	32.45	3	Vertical	137	1.62	-	27.73	3.28	-
AV	2.4835G	46.16	54.00	-7.84	15.15	3	Vertical	137	1.62	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2462MHz_TX



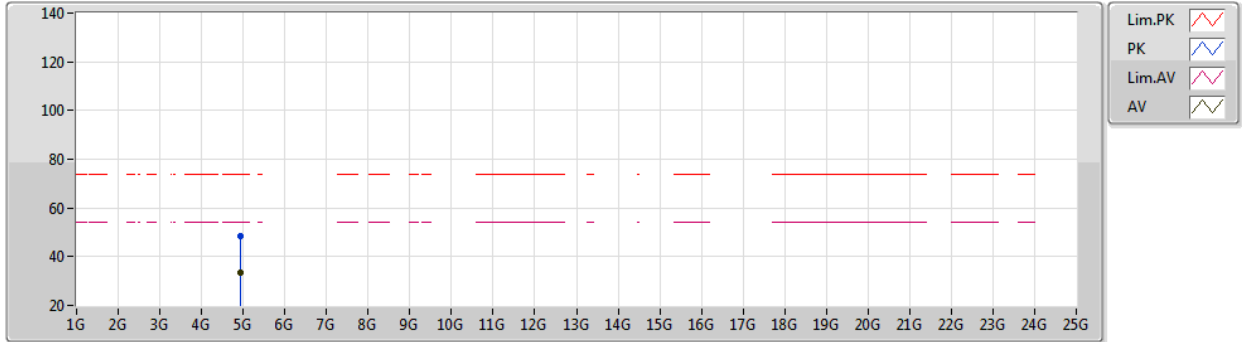
EUT Z_1TX
Setting 33
04-F-B-2

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	2.4632G	110.47	Inf	-Inf	79.56	3	Horizontal	89	1.00	-	27.65	3.26	-
AV	2.4628G	100.09	Inf	-Inf	69.18	3	Horizontal	89	1.00	-	27.65	3.26	-
PK	2.4842G	71.07	74.00	-2.93	40.05	3	Horizontal	89	1.00	-	27.74	3.28	-
AV	2.4835G	53.49	54.00	-0.51	22.48	3	Horizontal	89	1.00	-	27.73	3.28	-

802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2462MHz_TX



EUT Y_1TX
Setting 33
04-F-B-2

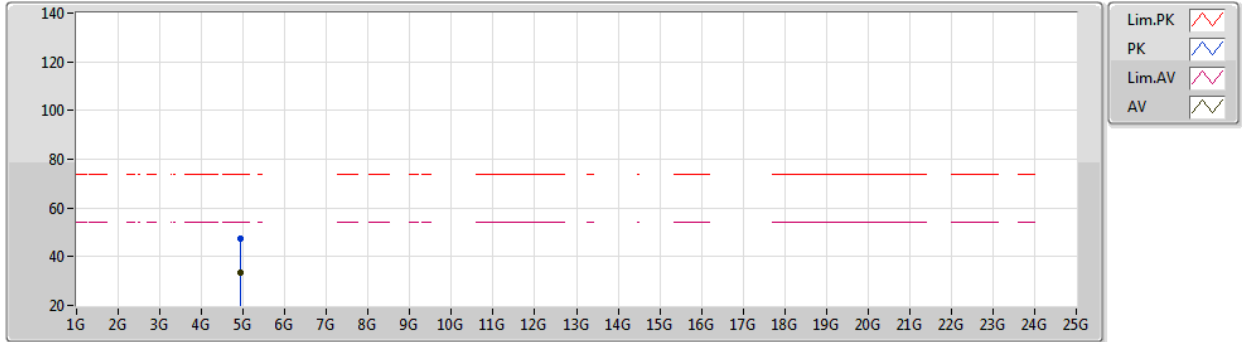
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92315G	48.20	74.00	-25.80	42.71	3	Vertical	277	1.99	-	32.89	5.46	32.86
AV	4.92231G	33.25	54.00	-20.75	27.76	3	Vertical	277	1.99	-	32.89	5.46	32.86



802.11g_Nss1,(6Mbps)_1TX

11/01/2021

2462MHz_TX



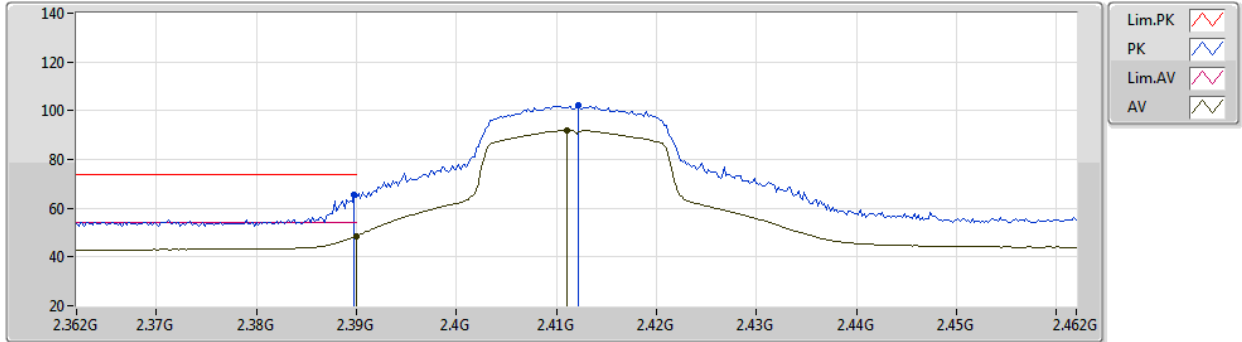
EUT Y_1TX
Setting 33
04-F-B-2

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	4.92544G	47.64	74.00	-26.36	42.14	3	Horizontal	57	1.97	-	32.90	5.46	32.86
AV	4.92314G	33.48	54.00	-20.52	27.99	3	Horizontal	57	1.97	-	32.89	5.46	32.86

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2412MHz_TX



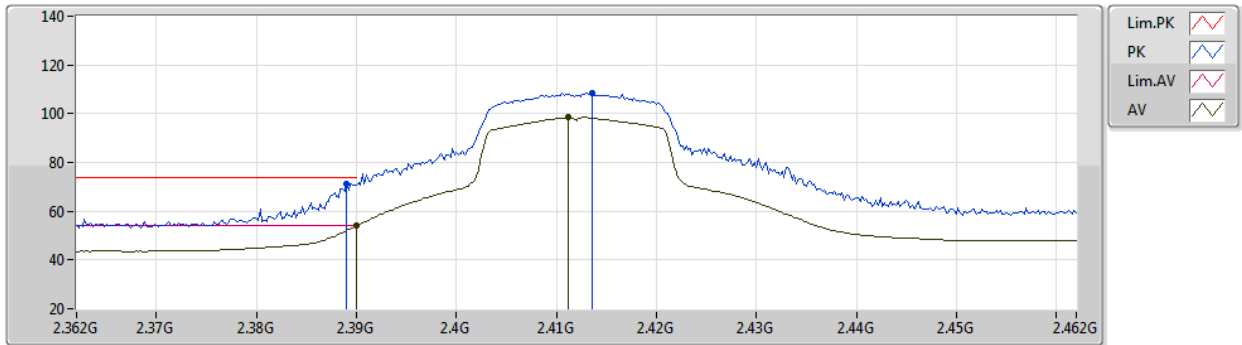
EUT Z_1TX
Setting 32
04-F-B-2

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	2.3898G	65.53	74.00	-8.47	34.85	3	Vertical	138	1.72	-	27.48	3.20	-
AV	2.39G	48.59	54.00	-5.41	17.91	3	Vertical	138	1.72	-	27.48	3.20	-
PK	2.4122G	102.26	Inf	-Inf	71.53	3	Vertical	138	1.72	-	27.52	3.21	-
AV	2.411G	91.98	Inf	-Inf	61.25	3	Vertical	138	1.72	-	27.52	3.21	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2412MHz_TX



EUT Z_1TX
Setting 32
04-F-B-2

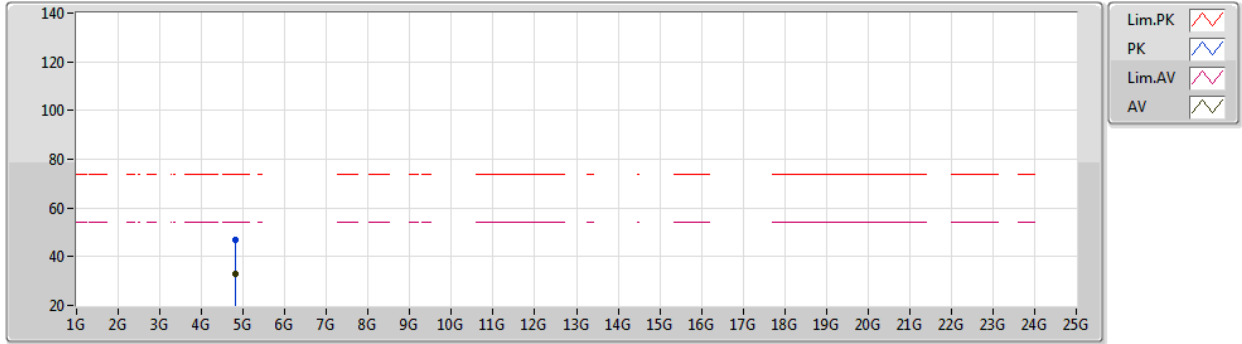
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	71.38	74.00	-2.62	40.70	3	Horizontal	90	1.01	-	27.48	3.20	-
AV	2.39G	53.88	54.00	-0.12	23.20	3	Horizontal	90	1.01	-	27.48	3.20	-
PK	2.4136G	108.45	Inf	-Inf	77.71	3	Horizontal	90	1.01	-	27.53	3.21	-
AV	2.4112G	98.44	Inf	-Inf	67.71	3	Horizontal	90	1.01	-	27.52	3.21	-



802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2412MHz_TX



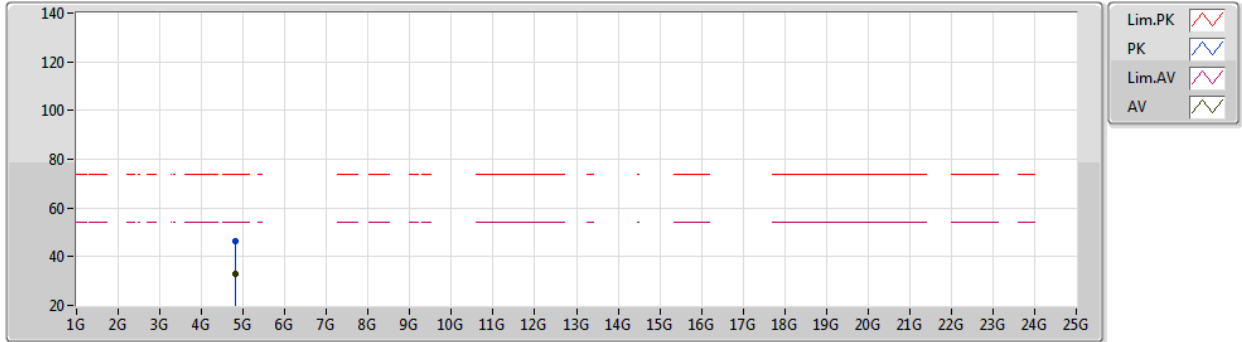
EUT Y_1TX
Setting 32
04-F-B-2

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	4.82353G	46.79	74.00	-27.21	41.72	3	Vertical	188	2.43	-	32.54	5.41	32.88
AV	4.82393G	32.82	54.00	-21.18	27.75	3	Vertical	188	2.43	-	32.54	5.41	32.88

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2412MHz_TX



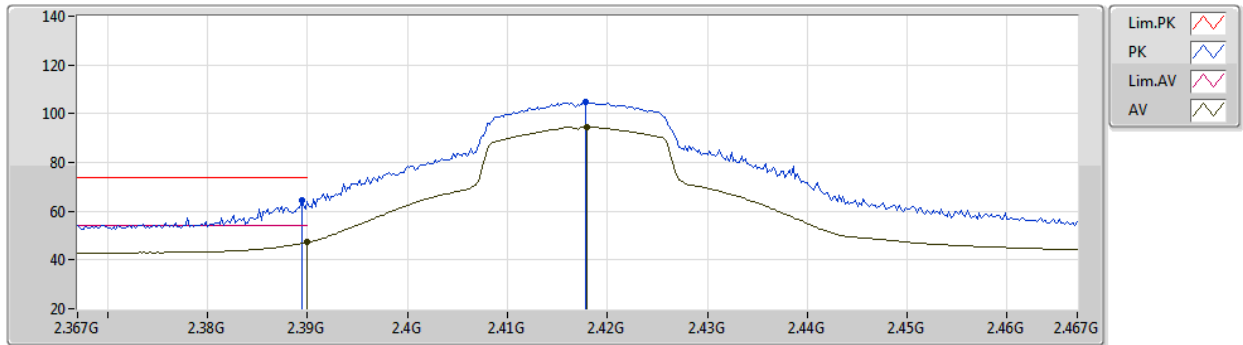
EUT Y_1TX
Setting 32
04-F-B-2

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	4.82544G	46.20	74.00	-27.80	41.12	3	Horizontal	57	1.96	-	32.55	5.41	32.88
AV	4.82336G	32.74	54.00	-21.26	27.67	3	Horizontal	57	1.96	-	32.54	5.41	32.88

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2417MHz_TX



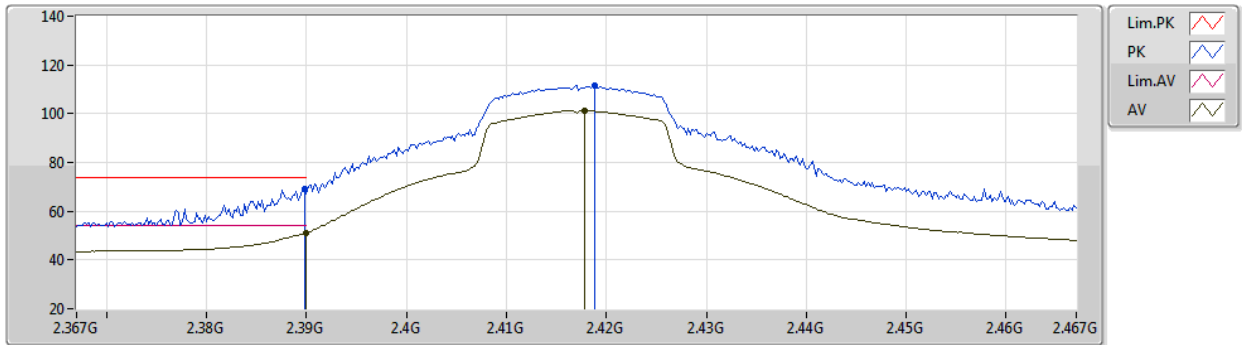
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3894G	64.43	74.00	-9.57	33.75	3	Vertical	139	2.13	-	27.48	3.20	-
AV	2.39G	47.20	54.00	-6.80	16.52	3	Vertical	139	2.13	-	27.48	3.20	-
PK	2.4178G	104.75	Inf	-Inf	73.99	3	Vertical	139	2.13	-	27.54	3.22	-
AV	2.418G	94.70	Inf	-Inf	63.94	3	Vertical	139	2.13	-	27.54	3.22	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2417MHz_TX



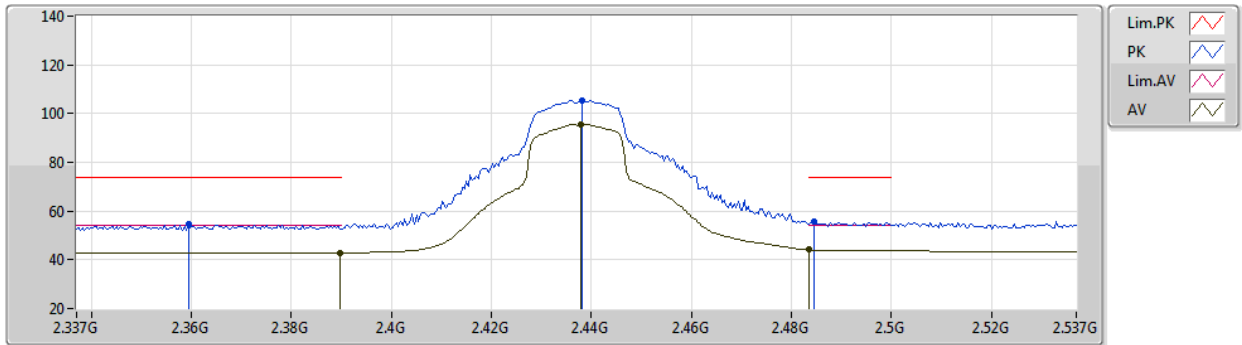
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3898G	69.13	74.00	-4.87	38.45	3	Horizontal	90	1.20	-	27.48	3.20	-
AV	2.39G	51.24	54.00	-2.76	20.56	3	Horizontal	90	1.20	-	27.48	3.20	-
PK	2.4188G	111.81	Inf	-Inf	81.05	3	Horizontal	90	1.20	-	27.54	3.22	-
AV	2.4178G	101.37	Inf	-Inf	70.61	3	Horizontal	90	1.20	-	27.54	3.22	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



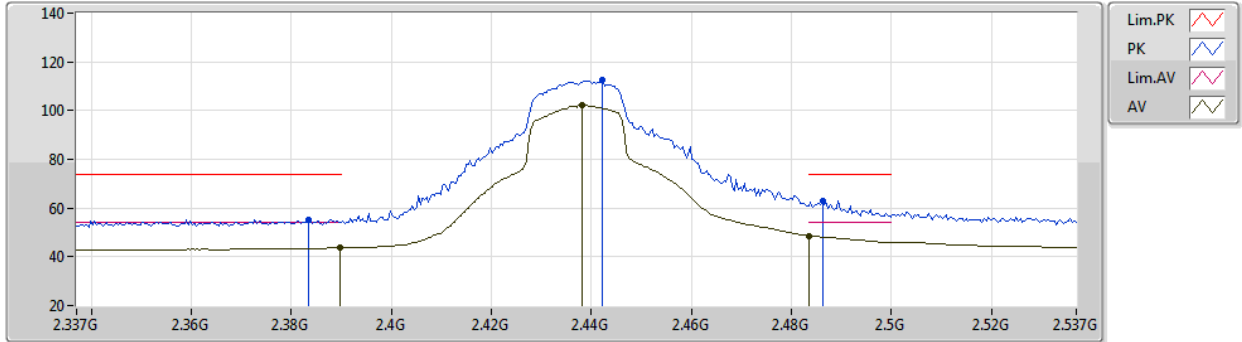
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3594G	54.48	74.00	-19.52	23.86	3	Vertical	138	1.65	-	27.42	3.20	-
AV	2.3898G	42.93	54.00	-11.07	12.25	3	Vertical	138	1.65	-	27.48	3.20	-
PK	2.4382G	105.44	Inf	-Inf	74.62	3	Vertical	138	1.65	-	27.58	3.24	-
AV	2.4378G	95.76	Inf	-Inf	64.94	3	Vertical	138	1.65	-	27.58	3.24	-
PK	2.4846G	55.64	74.00	-18.36	24.62	3	Vertical	138	1.65	-	27.74	3.28	-
AV	2.4835G	44.14	54.00	-9.86	13.13	3	Vertical	138	1.65	-	27.73	3.28	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



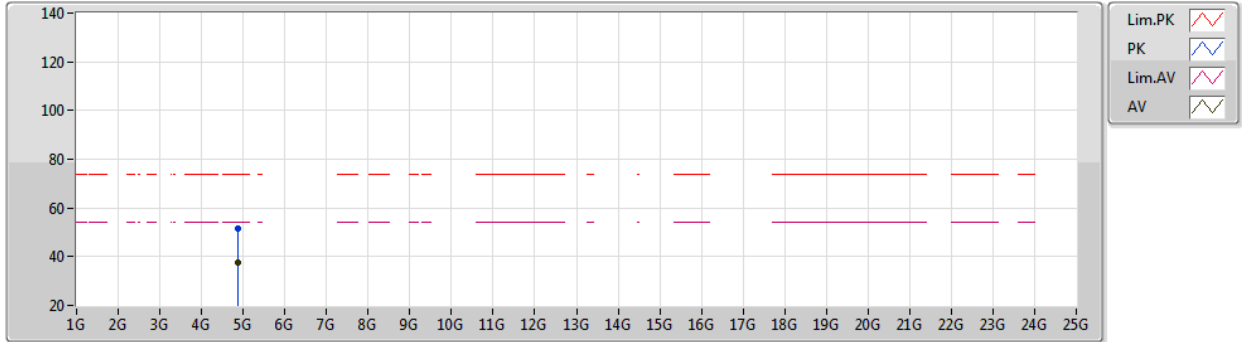
EUT Z_1TX
Setting 40
04-F-B-2

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	2.3834G	55.29	74.00	-18.71	24.62	3	Horizontal	96	1.32	-	27.47	3.20	-
AV	2.3898G	43.66	54.00	-10.34	12.98	3	Horizontal	96	1.32	-	27.48	3.20	-
PK	2.4422G	112.69	Inf	-Inf	81.87	3	Horizontal	96	1.32	-	27.58	3.24	-
AV	2.4382G	102.25	Inf	-Inf	71.43	3	Horizontal	96	1.32	-	27.58	3.24	-
PK	2.4862G	63.02	74.00	-10.98	31.99	3	Horizontal	96	1.32	-	27.74	3.29	-
AV	2.4835G	48.69	54.00	-5.31	17.68	3	Horizontal	96	1.32	-	27.73	3.28	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



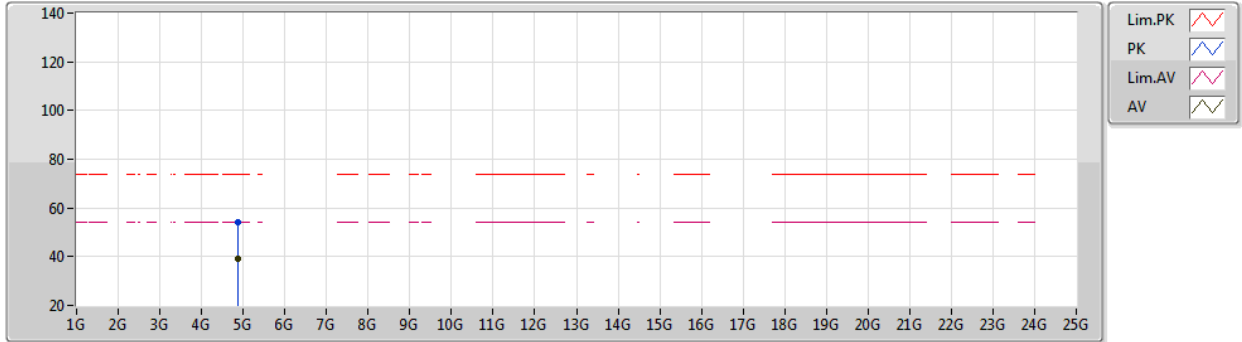
EUT Y_1TX
Setting 40
04-F-B-2

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	4.87628G	51.43	74.00	-22.57	46.11	3	Vertical	173	1.80	-	32.75	5.44	32.87
AV	4.87532G	37.46	54.00	-16.54	32.14	3	Vertical	173	1.80	-	32.75	5.44	32.87

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



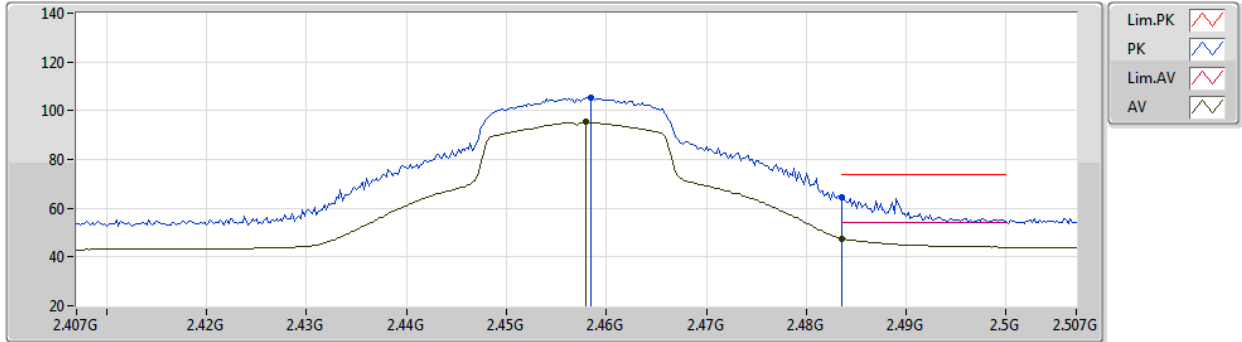
EUT Y_1TX
Setting 40
04-F-B-2

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	4.87508G	53.96	74.00	-20.04	48.64	3	Horizontal	219	1.98	-	32.75	5.44	32.87
AV	4.87298G	39.25	54.00	-14.75	33.93	3	Horizontal	219	1.98	-	32.75	5.44	32.87

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2457MHz_TX



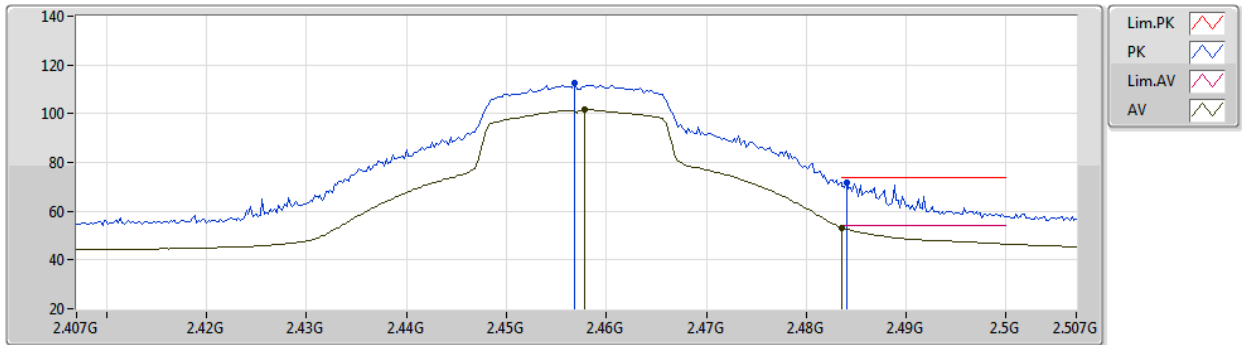
EUT Z_1TX
Setting 39
04-F-B-2

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	2.4584G	105.13	Inf	-Inf	74.24	3	Vertical	137	1.61	-	27.63	3.26	-
AV	2.458G	95.30	Inf	-Inf	64.41	3	Vertical	137	1.61	-	27.63	3.26	-
PK	2.4836G	64.54	74.00	-9.46	33.53	3	Vertical	137	1.61	-	27.73	3.28	-
AV	2.4835G	47.45	54.00	-6.55	16.44	3	Vertical	137	1.61	-	27.73	3.28	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2457MHz_TX



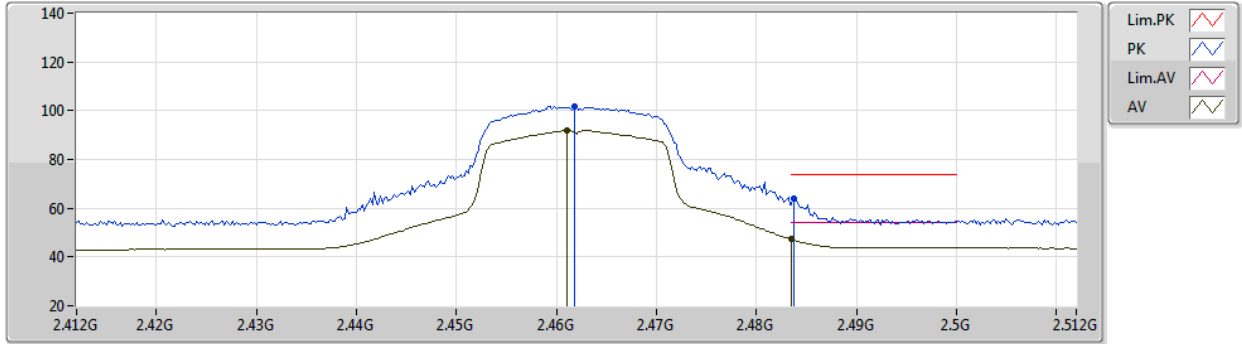
EUT Z_1TX
Setting 39
04-F-B-2

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	2.4568G	112.33	Inf	-Inf	81.44	3	Horizontal	128	1.00	-	27.63	3.26	-
AV	2.4578G	101.65	Inf	-Inf	70.76	3	Horizontal	128	1.00	-	27.63	3.26	-
PK	2.484G	71.95	74.00	-2.05	40.93	3	Horizontal	128	1.00	-	27.74	3.28	-
AV	2.4835G	53.32	54.00	-0.68	22.31	3	Horizontal	128	1.00	-	27.73	3.28	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2462MHz_TX



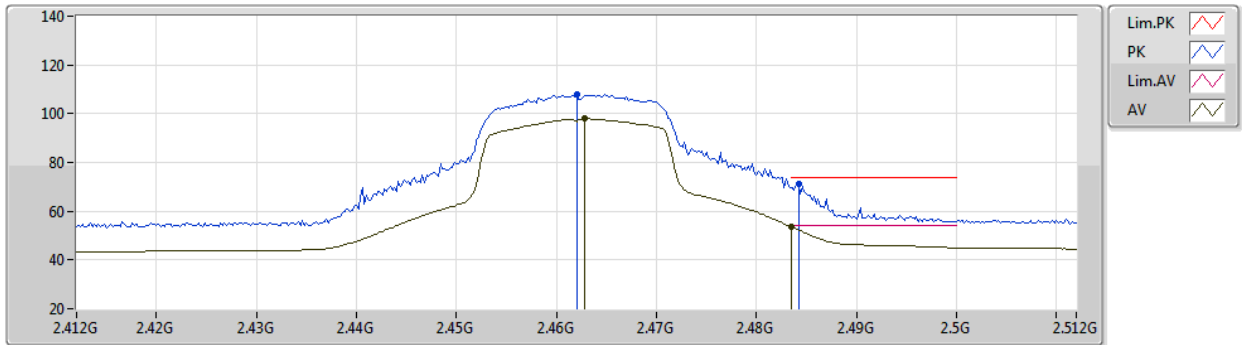
EUT Z_1TX
Setting 31
04-F-B-2

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	2.4618G	101.82	Inf	-Inf	70.91	3	Vertical	139	1.63	-	27.65	3.26	-
AV	2.461G	91.77	Inf	-Inf	60.87	3	Vertical	139	1.63	-	27.64	3.26	-
PK	2.4838G	63.85	74.00	-10.15	32.83	3	Vertical	139	1.63	-	27.74	3.28	-
AV	2.4835G	47.29	54.00	-6.71	16.28	3	Vertical	139	1.63	-	27.73	3.28	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2462MHz_TX



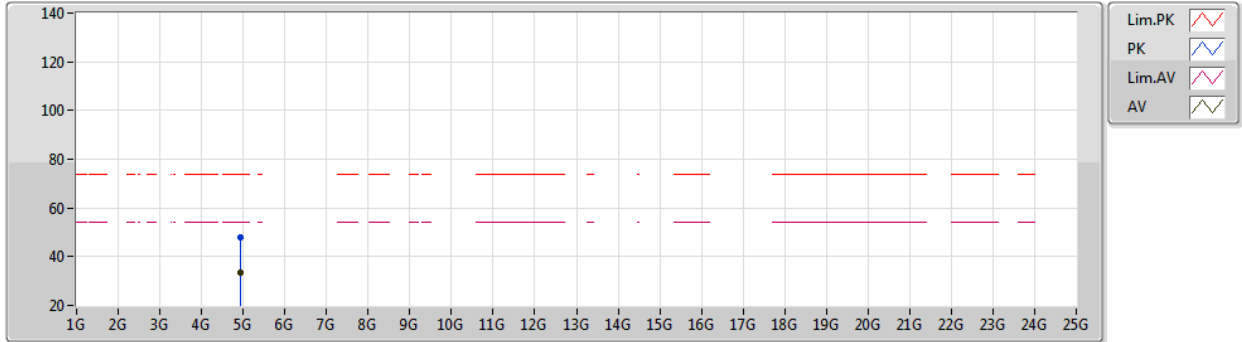
EUT Z_1TX
Setting 31
04-F-B-2

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	2.462G	107.91	Inf	-Inf	77.00	3	Horizontal	130	1.80	-	27.65	3.26	-
AV	2.4628G	97.98	Inf	-Inf	67.07	3	Horizontal	130	1.80	-	27.65	3.26	-
PK	2.4842G	71.24	74.00	-2.76	40.22	3	Horizontal	130	1.80	-	27.74	3.28	-
AV	2.4835G	53.59	54.00	-0.41	22.58	3	Horizontal	130	1.80	-	27.73	3.28	-

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2462MHz_TX



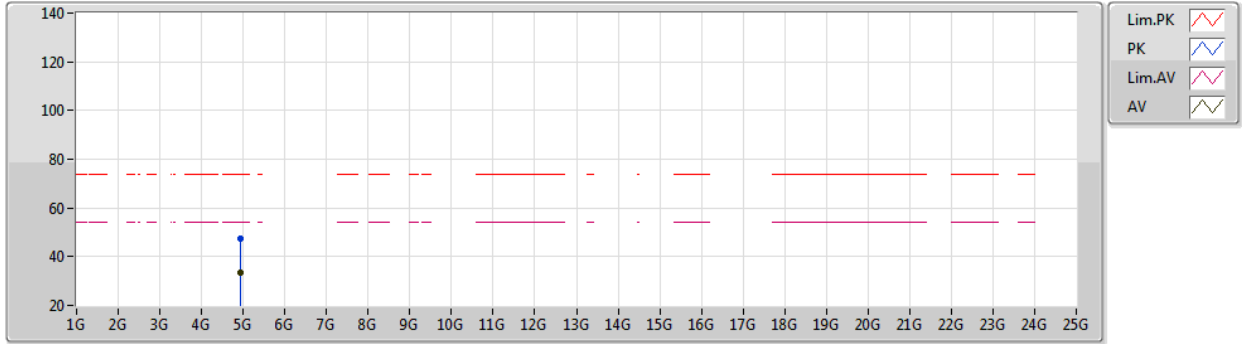
EUT Y_1TX
Setting 31
04-F-B-2

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	4.92476G	47.70	74.00	-26.30	42.20	3	Vertical	266	1.83	-	32.90	5.46	32.86
AV	4.92511G	33.19	54.00	-20.81	27.69	3	Vertical	266	1.83	-	32.90	5.46	32.86

802.11n HT20_Nss1,(MCS0)_1TX

11/01/2021

2462MHz_TX



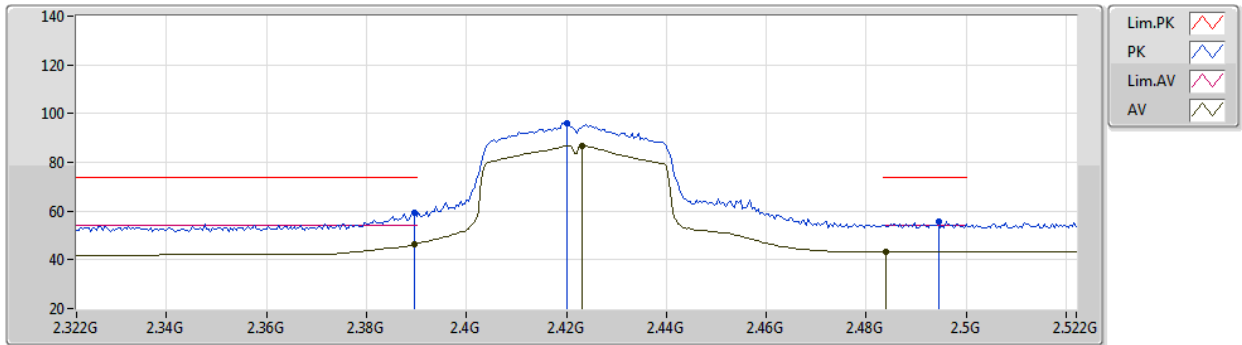
EUT Y_1TX
Setting 31
04-F-B-2

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	4.92416G	47.39	74.00	-26.61	41.89	3	Horizontal	59	1.89	-	32.90	5.46	32.86
AV	4.92489G	33.27	54.00	-20.73	27.77	3	Horizontal	59	1.89	-	32.90	5.46	32.86

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2422MHz_TX



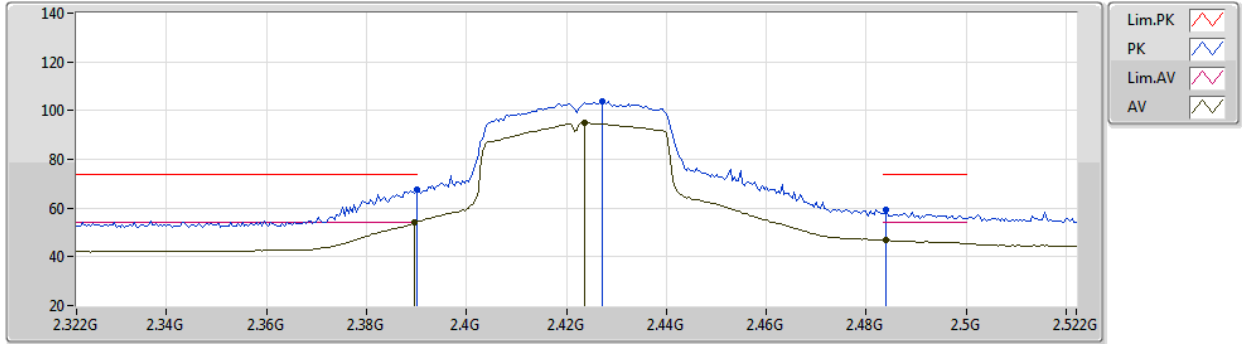
EUT Z_1TX
Setting 22
04-F-L-2

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	2.3896G	59.39	74.00	-14.61	28.71	3	Vertical	294	1.80	-	27.48	3.20	-
AV	2.3896G	46.28	54.00	-7.72	15.60	3	Vertical	294	1.80	-	27.48	3.20	-
PK	2.42G	95.81	Inf	-Inf	65.05	3	Vertical	294	1.80	-	27.54	3.22	-
AV	2.4232G	86.81	Inf	-Inf	56.04	3	Vertical	294	1.80	-	27.55	3.22	-
PK	2.4944G	55.53	74.00	-18.47	24.46	3	Vertical	294	1.80	-	27.78	3.29	-
AV	2.484G	43.52	54.00	-10.48	12.50	3	Vertical	294	1.80	-	27.74	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2422MHz_TX



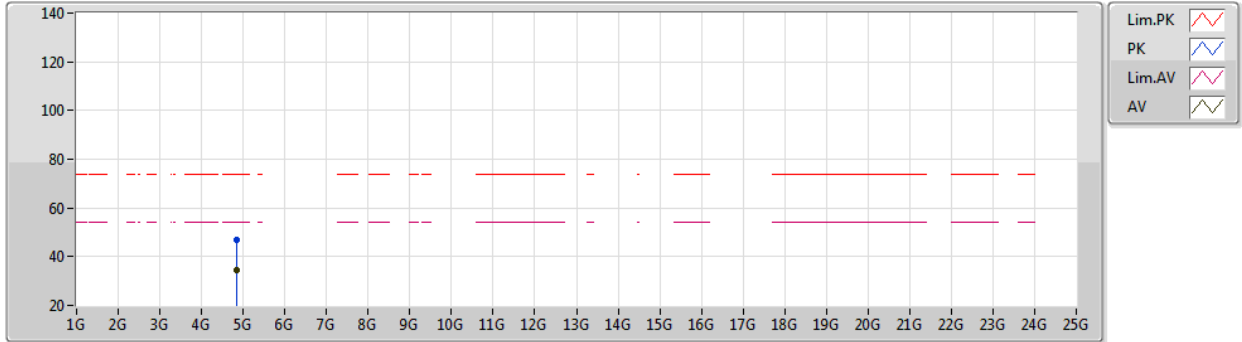
EUT Z_1TX
Setting 22
04-F-L-2

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	2.39G	67.33	74.00	-6.67	36.65	3	Horizontal	96	1.00	-	27.48	3.20	-
AV	2.3896G	53.93	54.00	-0.07	23.25	3	Horizontal	96	1.00	-	27.48	3.20	-
PK	2.4272G	103.70	Inf	-Inf	72.92	3	Horizontal	96	1.00	-	27.55	3.23	-
AV	2.4236G	94.88	Inf	-Inf	64.11	3	Horizontal	96	1.00	-	27.55	3.22	-
PK	2.484G	59.46	74.00	-14.54	28.44	3	Horizontal	96	1.00	-	27.74	3.28	-
AV	2.484G	46.76	54.00	-7.24	15.74	3	Horizontal	96	1.00	-	27.74	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2422MHz_TX



EUT Y_1TX
Setting 22
04-F-L-2

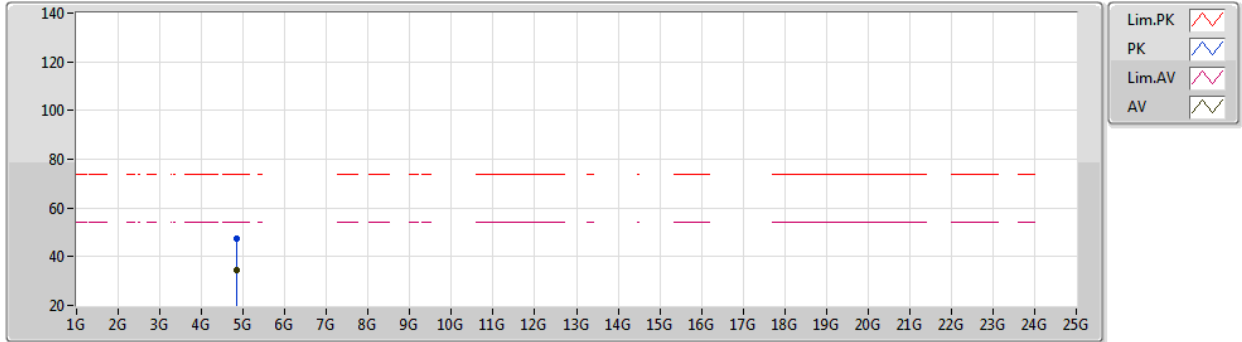
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.845G	46.84	74.00	-27.16	41.62	3	Vertical	318	2.92	-	32.67	5.42	32.87
AV	4.8448G	34.45	54.00	-19.55	29.23	3	Vertical	318	2.92	-	32.67	5.42	32.87



802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2422MHz_TX



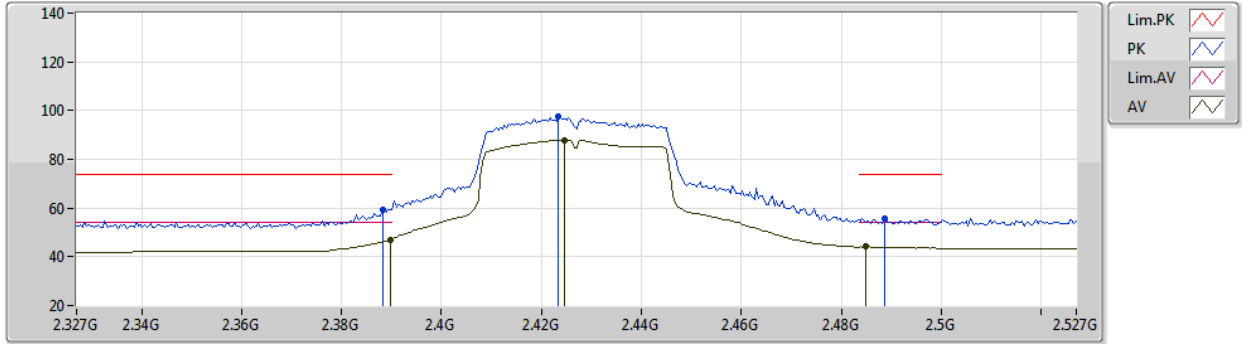
EUT Y_1TX
Setting 22
04-F-L-2

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	4.84337G	47.66	74.00	-26.34	42.46	3	Horizontal	20	2.10	-	32.66	5.42	32.88
AV	4.84466G	34.40	54.00	-19.60	29.18	3	Horizontal	20	2.10	-	32.67	5.42	32.87

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2427MHz_TX



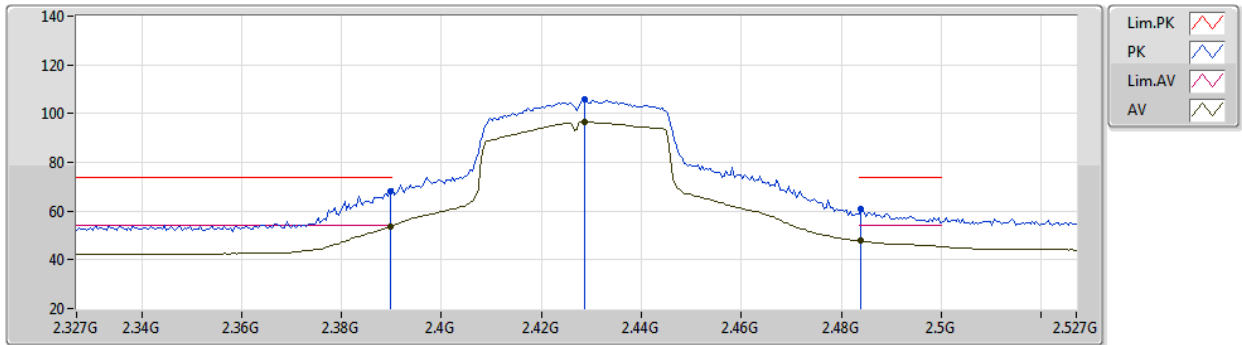
EUT Z_1TX
Setting 25
04-F-L-2

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	2.3882G	59.34	74.00	-14.66	28.66	3	Vertical	308	1.14	-	27.48	3.20	-
AV	2.3898G	47.00	54.00	-7.00	16.32	3	Vertical	308	1.14	-	27.48	3.20	-
PK	2.4234G	97.50	Inf	-Inf	66.73	3	Vertical	308	1.14	-	27.55	3.22	-
AV	2.4246G	87.95	Inf	-Inf	57.18	3	Vertical	308	1.14	-	27.55	3.22	-
PK	2.4886G	55.69	74.00	-18.31	24.65	3	Vertical	308	1.14	-	27.75	3.29	-
AV	2.485G	44.07	54.00	-9.93	13.04	3	Vertical	308	1.14	-	27.74	3.29	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2427MHz_TX



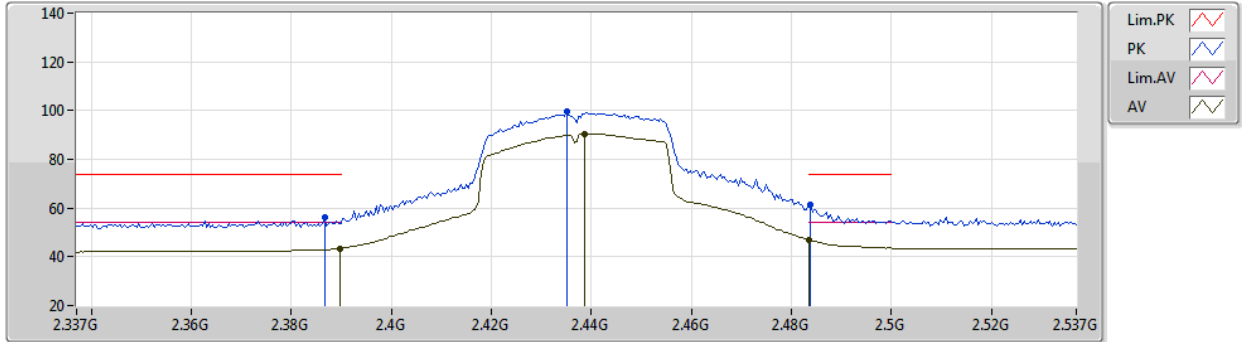
EUT Z_1TX
Setting 25
04-F-L-2

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	2.3898G	68.26	74.00	-5.74	37.58	3	Horizontal	94	1.00	-	27.48	3.20	-
AV	2.3898G	53.85	54.00	-0.15	23.17	3	Horizontal	94	1.00	-	27.48	3.20	-
PK	2.4286G	105.64	Inf	-Inf	74.85	3	Horizontal	94	1.00	-	27.56	3.23	-
AV	2.4286G	96.53	Inf	-Inf	65.74	3	Horizontal	94	1.00	-	27.56	3.23	-
PK	2.4838G	60.81	74.00	-13.19	29.79	3	Horizontal	94	1.00	-	27.74	3.28	-
AV	2.4838G	47.84	54.00	-6.16	16.82	3	Horizontal	94	1.00	-	27.74	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



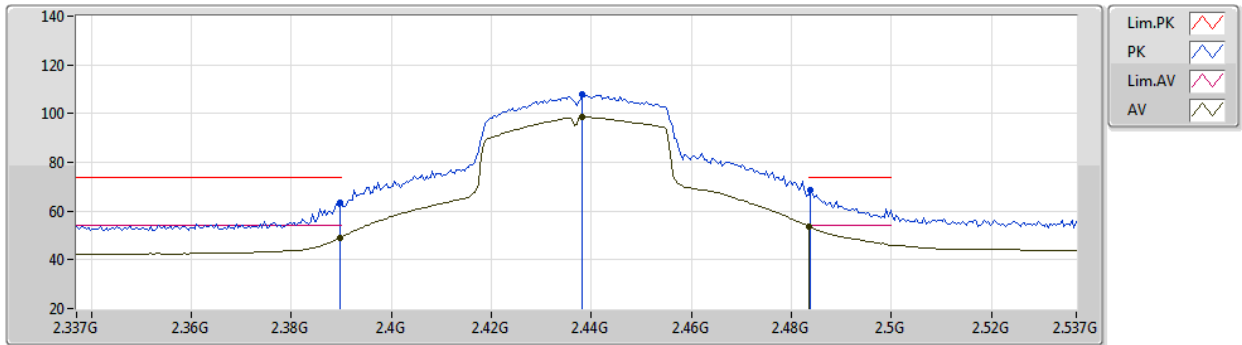
EUT Z_1TX
Setting 29
04-F-L-2

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	2.3866G	56.19	74.00	-17.81	25.52	3	Vertical	329	1.04	-	27.47	3.20	-
AV	2.3898G	43.40	54.00	-10.60	12.72	3	Vertical	329	1.04	-	27.48	3.20	-
PK	2.435G	99.55	Inf	-Inf	68.74	3	Vertical	329	1.04	-	27.57	3.24	-
AV	2.4386G	90.34	Inf	-Inf	59.52	3	Vertical	329	1.04	-	27.58	3.24	-
PK	2.4838G	61.47	74.00	-12.53	30.45	3	Vertical	329	1.04	-	27.74	3.28	-
AV	2.4835G	47.12	54.00	-6.88	16.11	3	Vertical	329	1.04	-	27.73	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



EUT Z_1TX
Setting 29
04-F-L-2

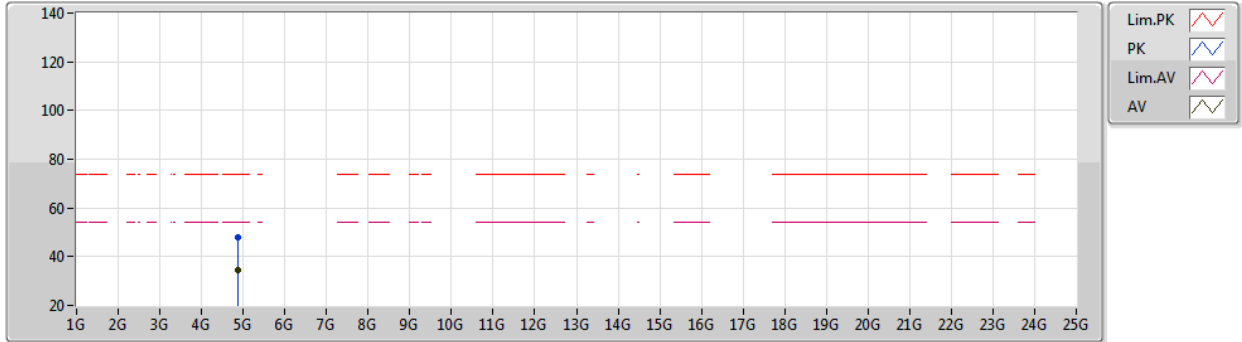
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	63.44	74.00	-10.56	32.76	3	Horizontal	94	1.47	-	27.48	3.20	-
AV	2.3898G	49.15	54.00	-4.85	18.47	3	Horizontal	94	1.47	-	27.48	3.20	-
PK	2.4382G	107.83	Inf	-Inf	77.01	3	Horizontal	94	1.47	-	27.58	3.24	-
AV	2.4382G	98.63	Inf	-Inf	67.81	3	Horizontal	94	1.47	-	27.58	3.24	-
PK	2.4838G	68.45	74.00	-5.55	37.43	3	Horizontal	94	1.47	-	27.74	3.28	-
AV	2.4835G	53.77	54.00	-0.23	22.76	3	Horizontal	94	1.47	-	27.73	3.28	-



802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



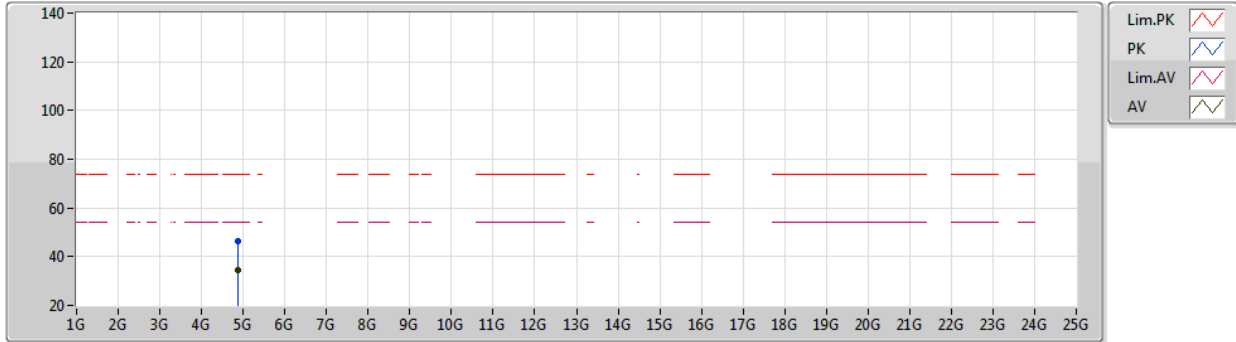
EUT Y_1TX
Setting 29
04-F-L-2

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	47.75	74.00	-26.25	42.43	3	Vertical	154	1.55	-	32.75	5.44	32.87
AV	4.87345G	34.32	54.00	-19.68	29.00	3	Vertical	154	1.55	-	32.75	5.44	32.87

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2437MHz_TX



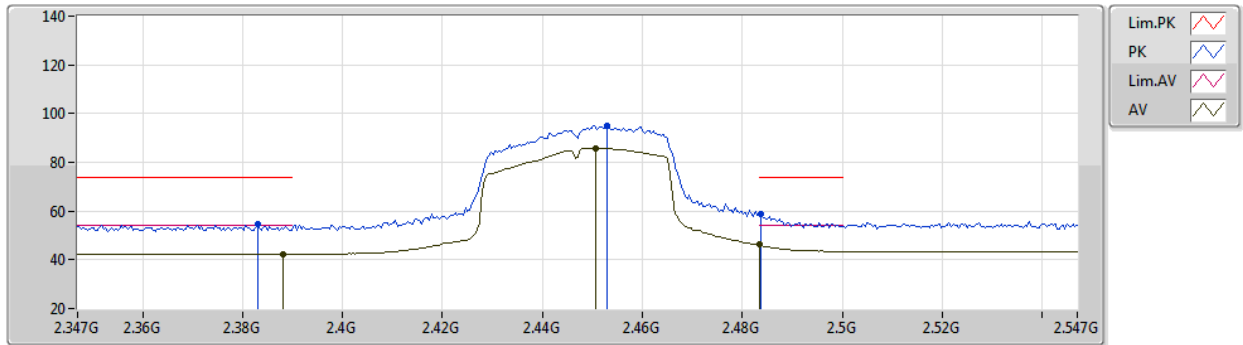
EUT Y_1TX
Setting 29
04-F-L-2

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	4.87162G	46.55	74.00	-27.45	41.24	3	Horizontal	3	1.35	-	32.74	5.44	32.87
AV	4.87319G	34.32	54.00	-19.68	29.00	3	Horizontal	3	1.35	-	32.75	5.44	32.87

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2447MHz_TX



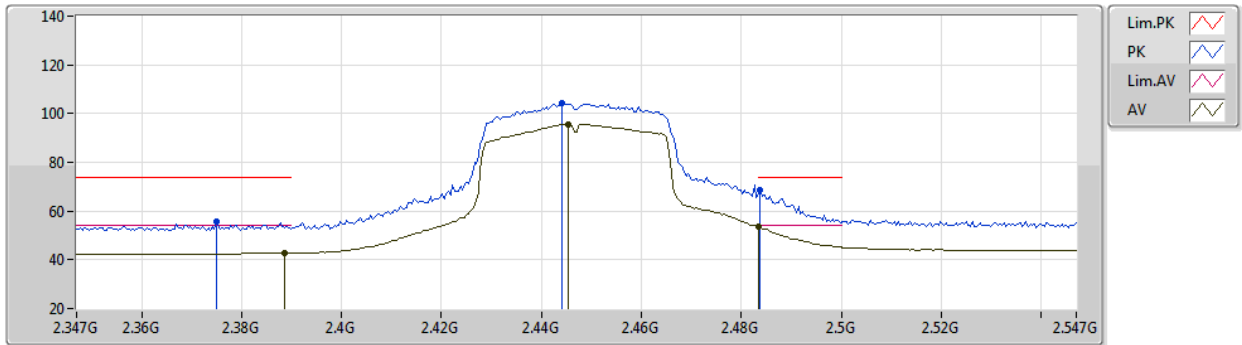
EUT Z_1TX
Setting 22
04-F-L-2

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	2.383G	54.82	74.00	-19.18	24.15	3	Vertical	337	1.80	-	27.47	3.20	-
AV	2.3882G	42.27	54.00	-11.73	11.59	3	Vertical	337	1.80	-	27.48	3.20	-
PK	2.453G	95.19	Inf	-Inf	64.33	3	Vertical	337	1.80	-	27.61	3.25	-
AV	2.4506G	85.67	Inf	-Inf	54.82	3	Vertical	337	1.80	-	27.60	3.25	-
PK	2.4838G	58.81	74.00	-15.19	27.79	3	Vertical	337	1.80	-	27.74	3.28	-
AV	2.4835G	46.15	54.00	-7.85	15.14	3	Vertical	337	1.80	-	27.73	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2447MHz_TX



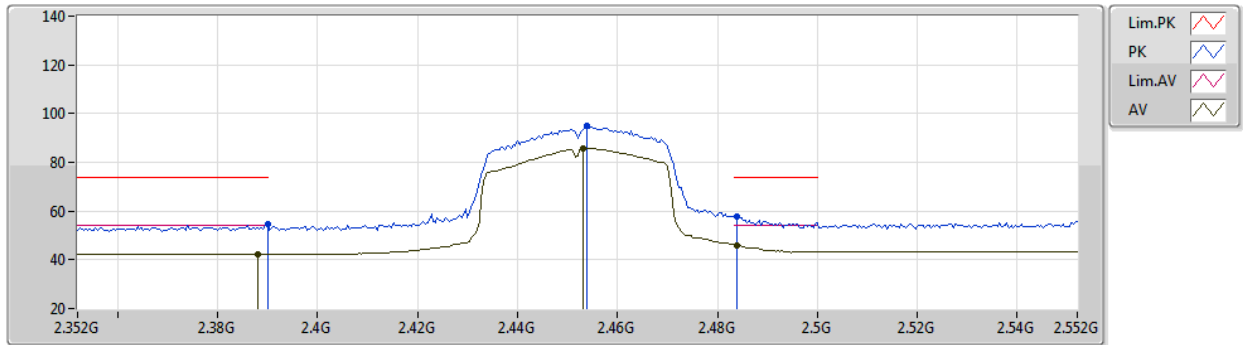
EUT Z_1TX
Setting 22
04-F-L-2

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	2.375G	55.63	74.00	-18.37	24.98	3	Horizontal	89	1.20	-	27.45	3.20	-
AV	2.3886G	42.85	54.00	-11.15	12.17	3	Horizontal	89	1.20	-	27.48	3.20	-
PK	2.4442G	104.06	Inf	-Inf	73.23	3	Horizontal	89	1.20	-	27.59	3.24	-
AV	2.4454G	95.75	Inf	-Inf	64.91	3	Horizontal	89	1.20	-	27.59	3.25	-
PK	2.4838G	68.54	74.00	-5.46	37.52	3	Horizontal	89	1.20	-	27.74	3.28	-
AV	2.4835G	53.42	54.00	-0.58	22.41	3	Horizontal	89	1.20	-	27.73	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2452MHz_TX



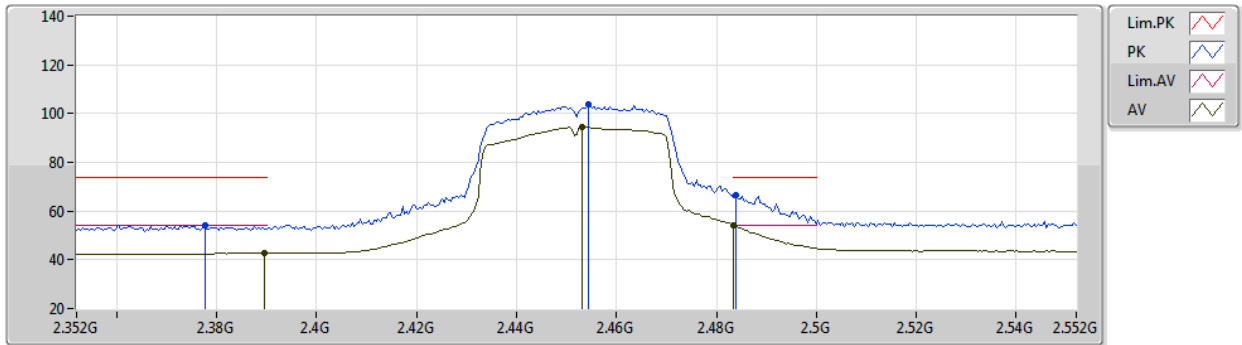
EUT Z_1TX
Setting 19
04-F-L-2

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	2.39G	54.43	74.00	-19.57	23.75	3	Vertical	332	1.21	-	27.48	3.20	-
AV	2.388G	42.27	54.00	-11.73	11.59	3	Vertical	332	1.21	-	27.48	3.20	-
PK	2.454G	94.86	Inf	-Inf	63.99	3	Vertical	332	1.21	-	27.62	3.25	-
AV	2.4532G	85.81	Inf	-Inf	54.95	3	Vertical	332	1.21	-	27.61	3.25	-
PK	2.484G	57.74	74.00	-16.26	26.72	3	Vertical	332	1.21	-	27.74	3.28	-
AV	2.484G	45.95	54.00	-8.05	14.93	3	Vertical	332	1.21	-	27.74	3.28	-

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2452MHz_TX



EUT Z_1TX
Setting 19
04-F-L-2

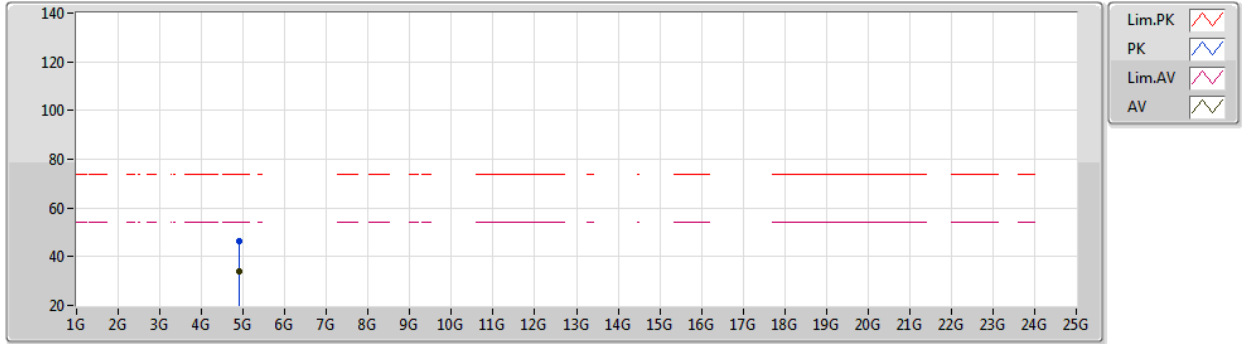
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3776G	54.13	74.00	-19.87	23.47	3	Horizontal	97	1.00	-	27.46	3.20	-
AV	2.3896G	42.57	54.00	-11.43	11.89	3	Horizontal	97	1.00	-	27.48	3.20	-
PK	2.4544G	103.55	Inf	-Inf	72.68	3	Horizontal	97	1.00	-	27.62	3.25	-
AV	2.4532G	94.45	Inf	-Inf	63.59	3	Horizontal	97	1.00	-	27.61	3.25	-
PK	2.484G	66.66	74.00	-7.34	35.64	3	Horizontal	97	1.00	-	27.74	3.28	-
AV	2.4835G	53.94	54.00	-0.06	22.93	3	Horizontal	97	1.00	-	27.73	3.28	-



802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2452MHz_TX



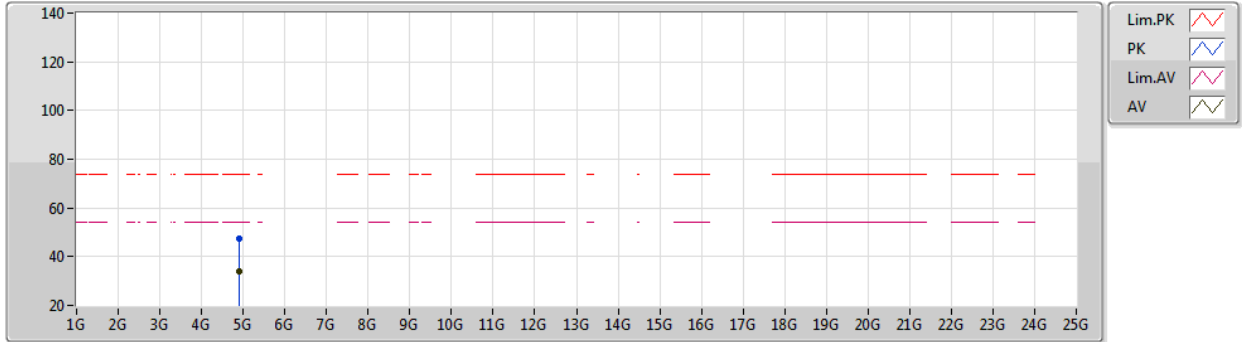
EUT Y_1TX
Setting 19
04-F-L-2

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	4.90264G	46.54	74.00	-27.46	41.15	3	Vertical	144	2.35	-	32.81	5.45	32.87
AV	4.90438G	34.07	54.00	-19.93	28.67	3	Vertical	144	2.35	-	32.82	5.45	32.87

802.11n HT40_Nss1,(MCS0)_1TX

11/01/2021

2452MHz_TX



EUT Y_1TX
Setting 19
04-F-L-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	4.90215G	47.50	74.00	-26.50	42.11	3	Horizontal	232	2.07	-	32.81	5.45	32.87
AV	4.90516G	34.12	54.00	-19.88	28.72	3	Horizontal	232	2.07	-	32.82	5.45	32.87