

# FCC Test Report

**FCC ID** : PPQ-WN4646L  
**Equipment** : 802.11b/g/n 2T2R Wireless LAN USB Module  
**Brand Name** : LITE-ON  
**Model Name** : WN4646L  
**Applicant** : Lite-On Technology Corp.  
Bldg. C, 90, Chien 1 Road, Chung Ho, New Taipei  
City 23585, Taiwan, R.O.C  
**Manufacturer** : LITE-ON TECHNOLOGY (Changzhou) CO., LTD  
A9 Building, No.88 Yanghu Road, Wujin Hi-Tech  
Industrial Development Zone, Changzhou  
City, Jiangsu Province 213100 China  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Dec. 24, 2019, and testing was started from Dec. 28, 2019 and completed on Mar. 11, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

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



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### Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and explanations:**

None

**Reviewed by: Sam Tsai**

**Report Producer: Yunha Liou**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

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

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

**Note:**

- ◆ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ◆ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ◆ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ◆ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Walsin	RFMTA200700NNLB002	PIFA	N/A	2.48
2	2	Walsin	RFMTA200700NNLB002	PIFA	N/A	-0.29

Note 1: The EUT has two antennas.

**For 2.4 GHz function:**

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

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.



1.1.3 EUT Information

Operational Condition	
EUT Power Type	From host system
Beamforming Function	<input type="checkbox"/> With beamforming <input checked="" type="checkbox"/> Without beamforming
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b_Nss1,(1Mbps)_2TX	1	0	20.001m	10
802.11g_Nss1,(6Mbps)_2TX	1	0	20.001m	10
802.11n HT20_Nss1,(MCS0)_2TX	1	0	20.001m	10
802.11n HT40_Nss1,(MCS0)_2TX	1	0	20.001m	10

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ KDB 558074 D01 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

### 1.3 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	HWA YA	ADD	:	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
		TEL	:	886-3-327-3456
		FAX	:	886-3-327-0973
Test site Designation No. TW1190 with FCC.				
<input type="checkbox"/>	JHUBEI	ADD	:	No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)
		TEL	:	886-3-656-9065
		FAX	:	886-3-656-9085
Test site Designation No. TW0006 with FCC.				
<input checked="" type="checkbox"/>	Wen Shan	ADD	:	No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
		TEL	:	886-3-318-0787
		FAX	:	886-3-318-0287
Test site Designation No. TW1097 with FCC.				

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	20.3~24.1°C / 40.1~42%	28/Dec/2019
RF Conducted	TH06-HY	Edward	20.1~22.6°C / 58~66%	11/Mar/2020
Radiated	03CH09-HY	Daniel	21.6~22.4°C / 54~59%	10/Mar/2020

### 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

### 2.2 Test Channel Mode

<b>Test Software</b>	Realtek 11n 8192F USB WLAN MP Diagnostic Program 0.00004.02.20190311
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Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	33,37
2437MHz	33,37
2462MHz	36,40
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	47,49
2417MHz	54,56
2437MHz	61,63
2457MHz	55,57
2462MHz	45,47
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	44,46
2417MHz	56,58
2437MHz	61,63
2457MHz	56,58
2462MHz	44,46
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	42,44
2427MHz	44,46
2437MHz	46,48
2447MHz	44,46
2452MHz	42,44



### 2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX/CRX
1	USB mode

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

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX/CRX		
1	USB mode		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		



## 2.4 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Power Cable	Power sync	TPCMRN0018	-	
2	Adapter	DELL	AA90PM111	-	-
3	Notebook	DELL	PP13S	-	-
4	Fixture	-	-	-	-
5	USB Cable	-	-	-	-

Note: No.4,5 was provided by customer.

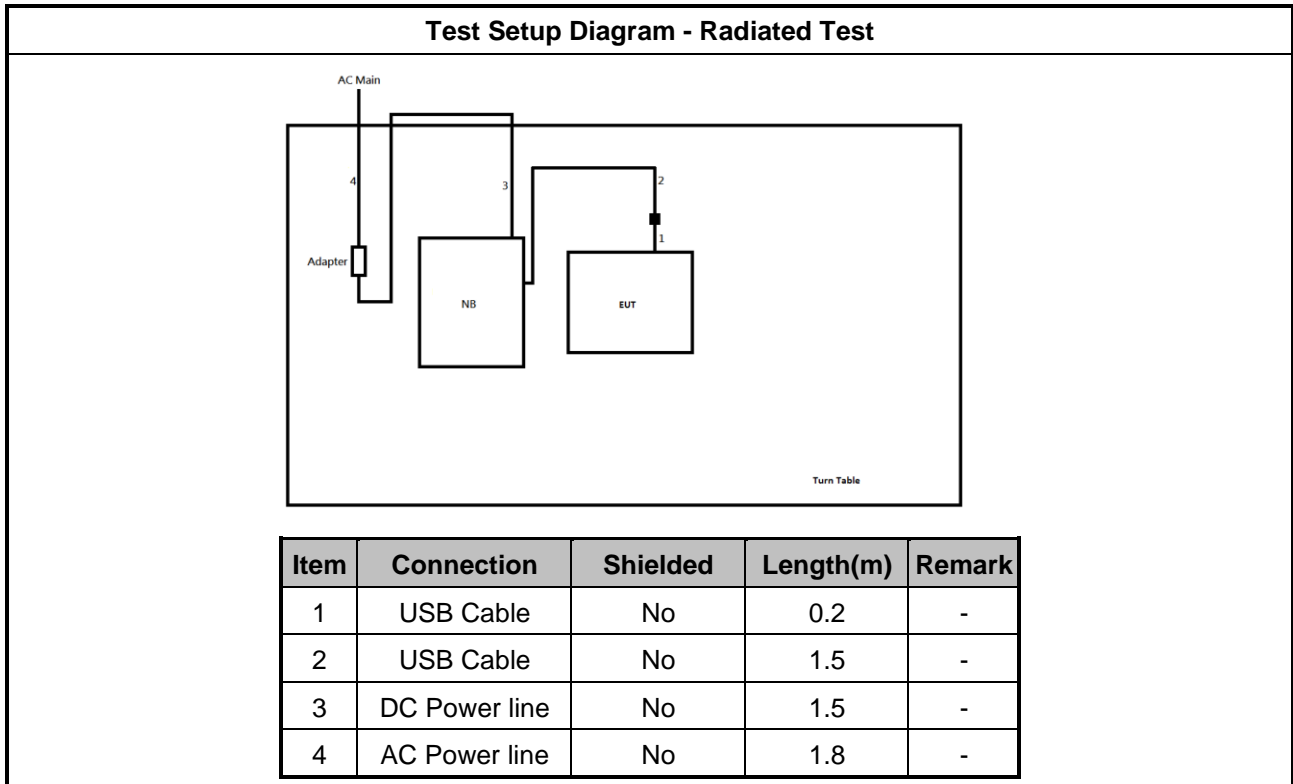
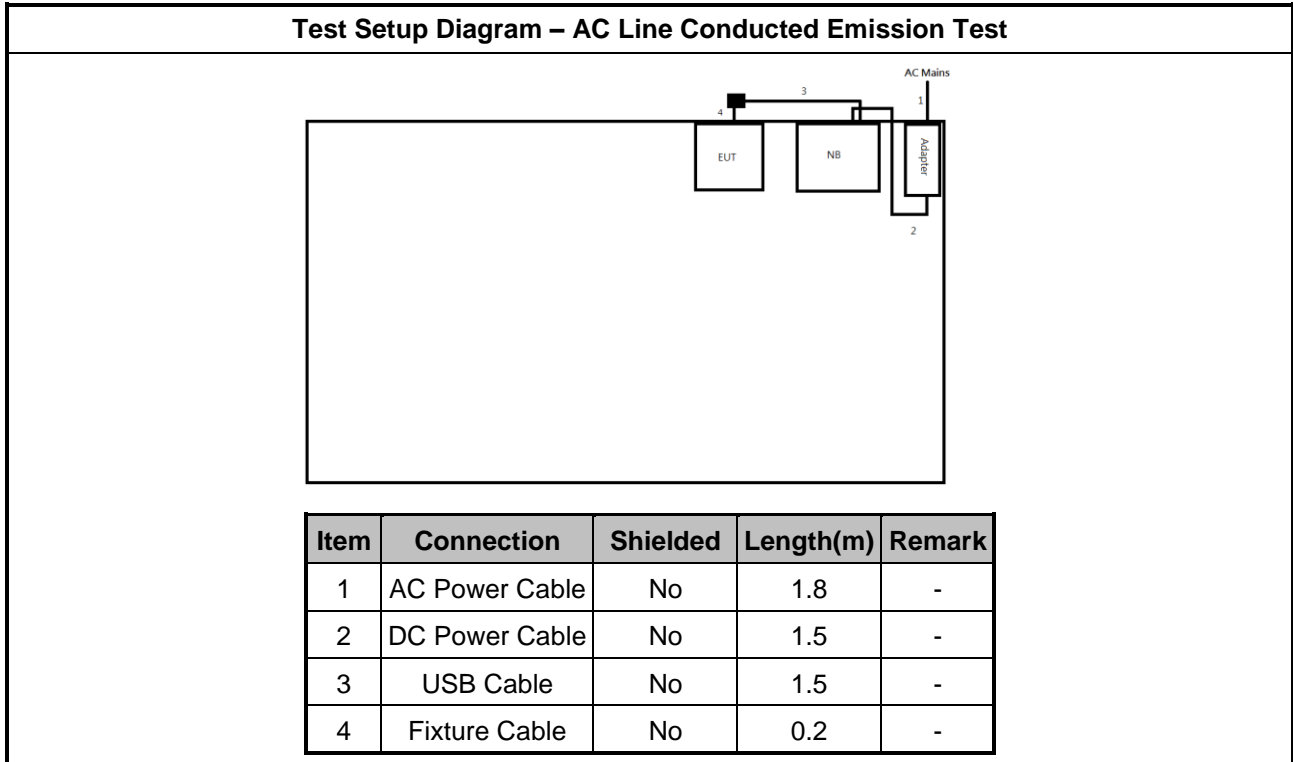
Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	DoC	-
2	Adapter for NB	DELL	HA65NM130	DoC	-
3	Fixture	-	-	-	-
4	USB Cable	-	-	-	-

Note: No.3,4 was provided by customer.

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	HP	5220M	-	-
2	Adapter for NB	HP	PPP012H-S	-	-
3	Fixture	-	-	-	-
4	USB Cable	-	-	-	-
5	AC Power Cable	Power sync	TPCMRN0018	-	-

Note: No.3,4 was provided by customer.

## 2.5 Test Setup Diagram





### 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.

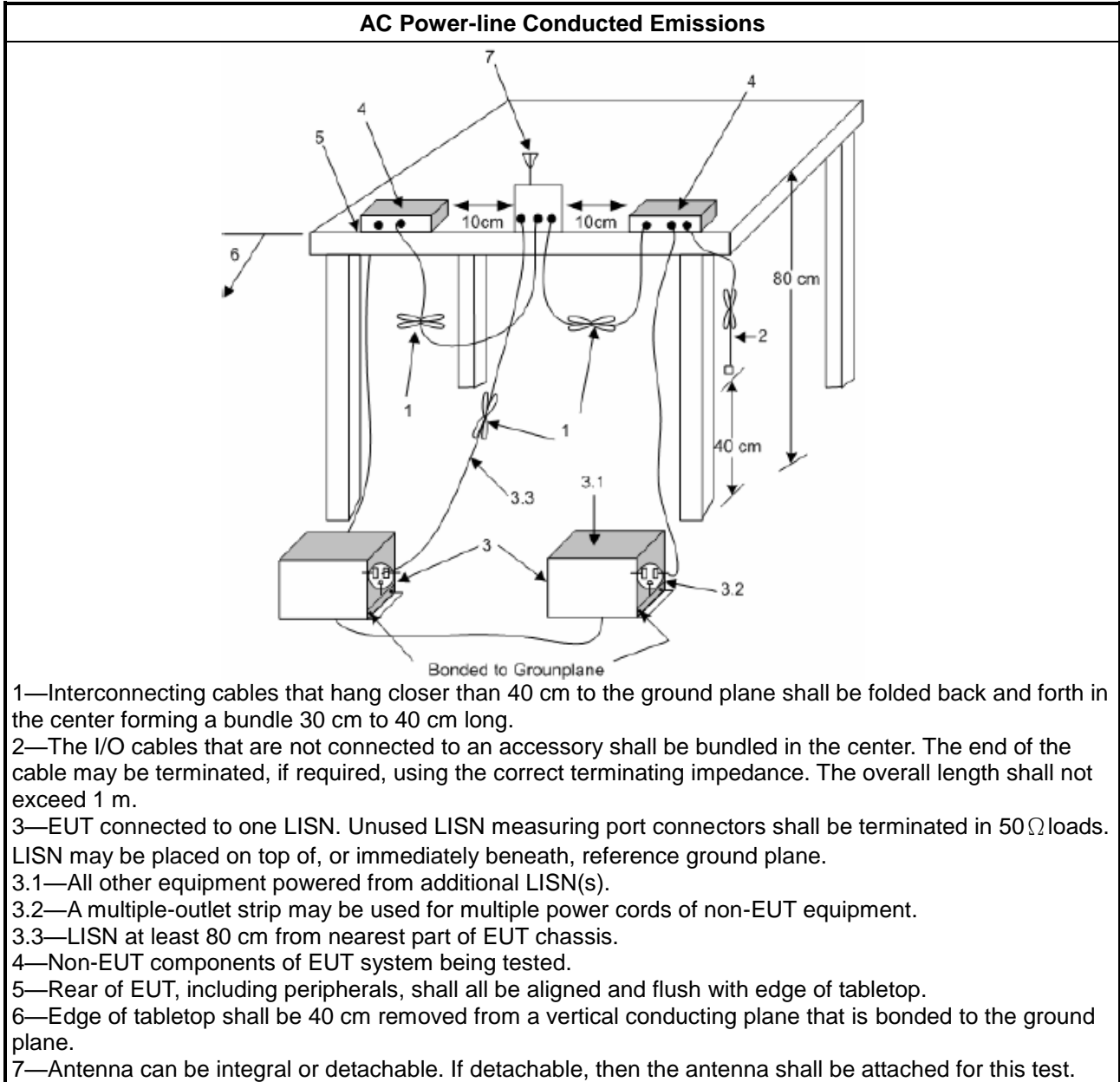
##### 3.1.2 Measuring Instruments

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 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"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>	

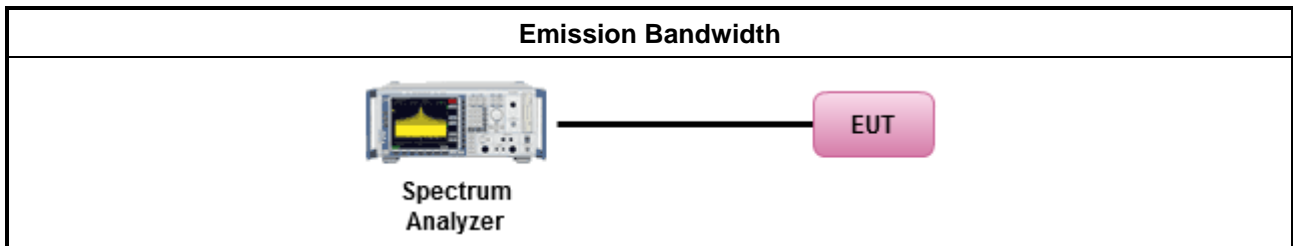
#### 3.2.2 Measuring Instruments

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"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>	
<input checked="" type="checkbox"/>	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):               <ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul> </li> </ul>
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> <li>▪ 2400-2483.5 MHz Band</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS)               <ul style="list-style-type: none"> <li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> <li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> <li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li> </ul> </li> </ul>
$P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

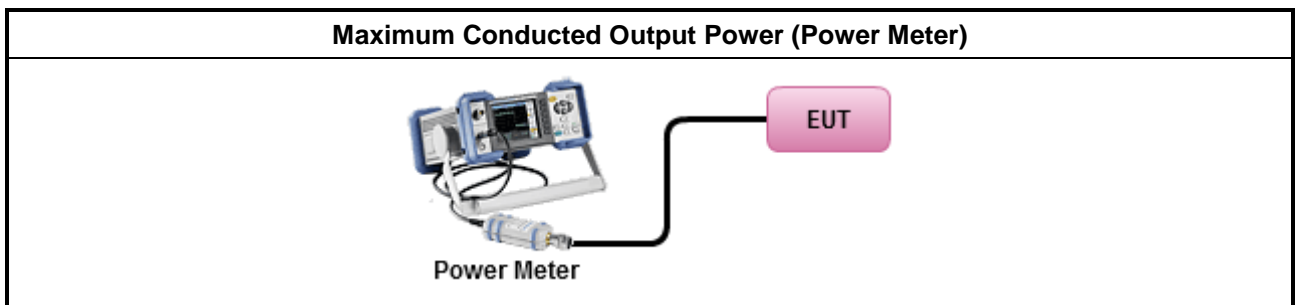
#### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> <li>▪ Maximum Average Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math>                     (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 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"> <li>Power Spectral Density (PSD) <math>\leq</math> 8 dBm/3kHz</li> </ul>

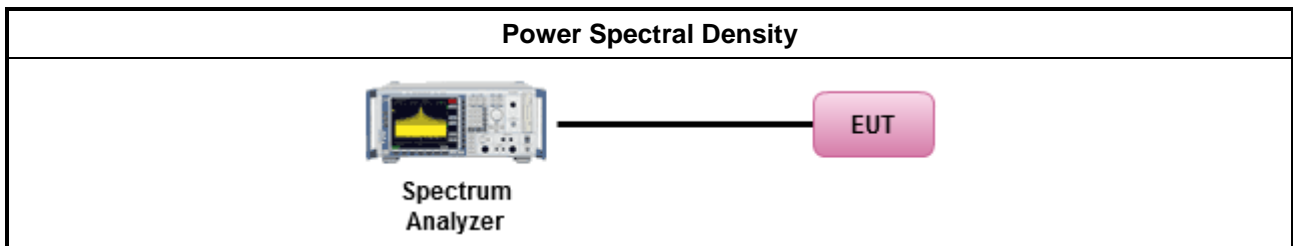
#### 3.4.2 Measuring Instruments

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"> <li>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).</li> </ul>
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
<ul style="list-style-type: none"> <li>For conducted measurement.             <ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:                 <ul style="list-style-type: none"> <li>Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.</li> </ul> </li> </ul> </li> </ul>

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.

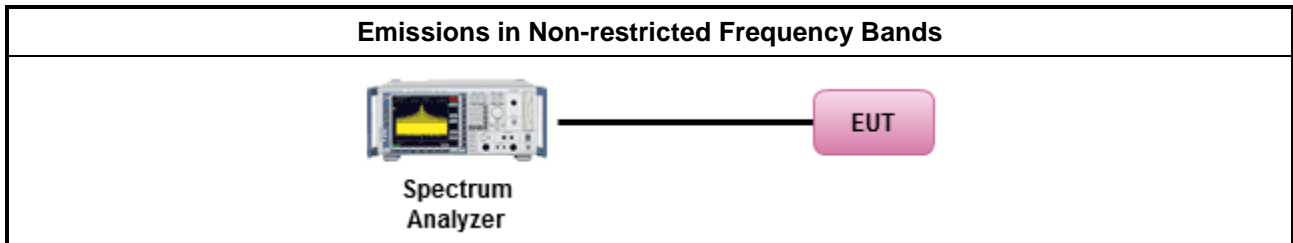
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul>

#### 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

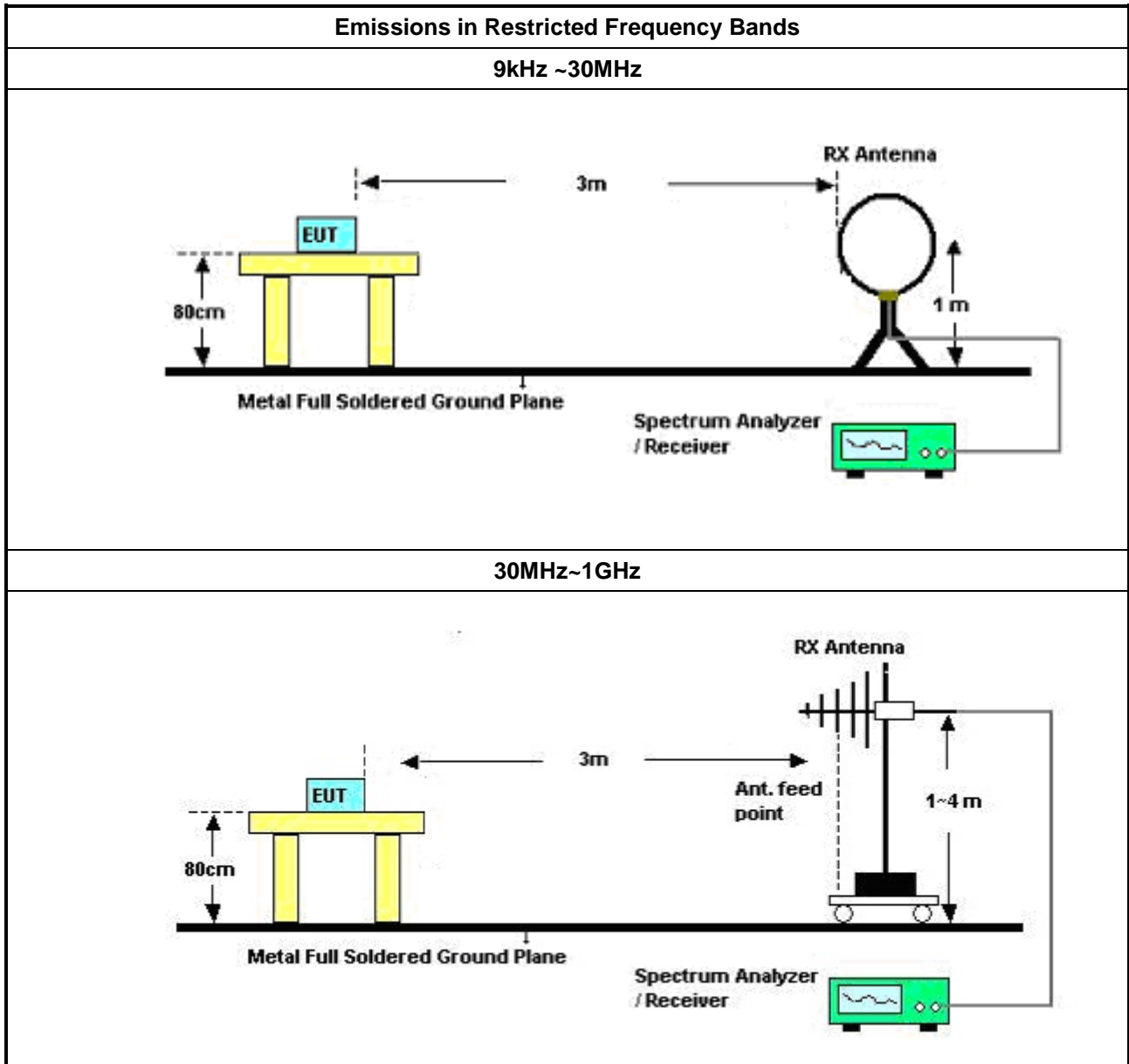
Refer a test equipment and calibration data table in this test report.

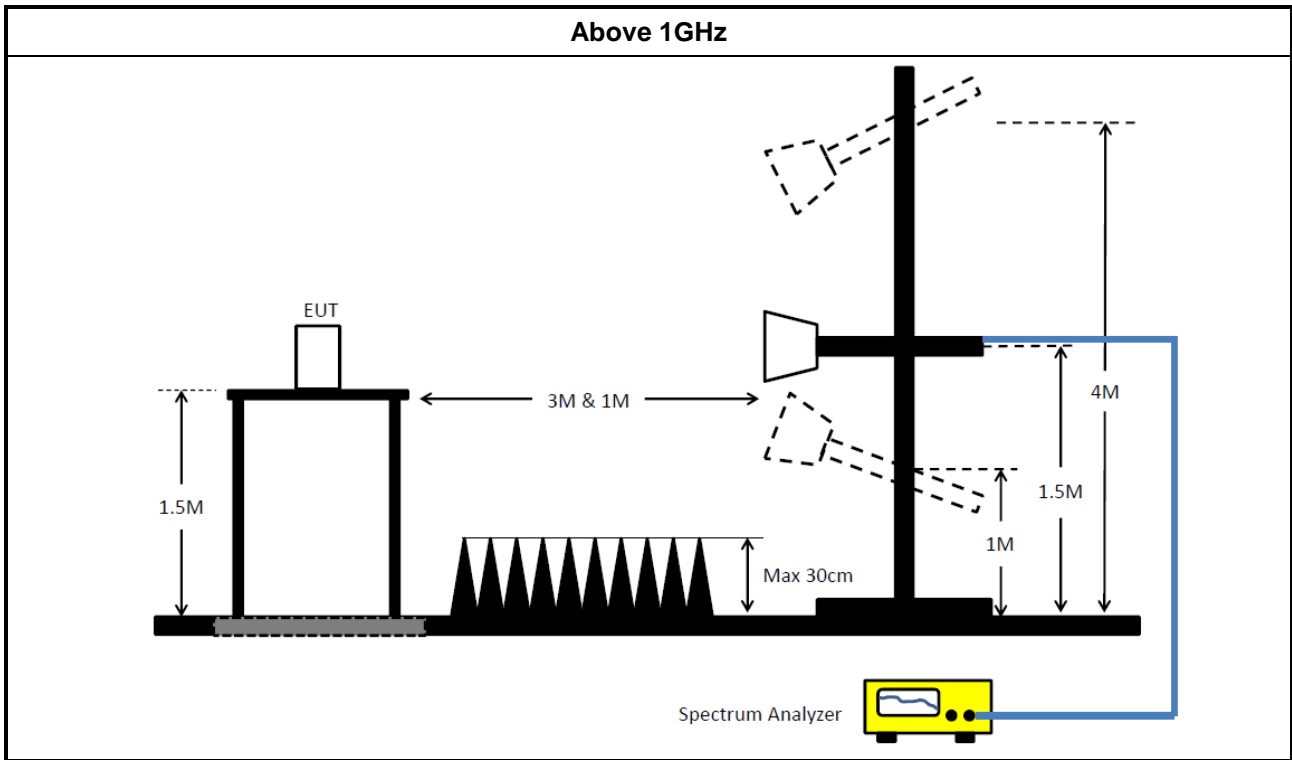


3.6.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Use the following spectrum analyzer settings:</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Set RBW=100 kHz for <math>f &lt; 1</math> GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Set RBW = 1 MHz, VBW= 3MHz for <math>f \geq 1</math> GHz for peak measurement. For average measurement, refer as 1.1.4.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.</li> </ul>

### 3.6.4 Test Setup





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

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

### 3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	04/Nov/2019	05/Nov/2020
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	12/Sep/2019	11/Sep/2020
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	24/Sep/2019	23/Sep/2020

### NCR: Non-Calibration Require

### Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101029	10kHz ~ 40GHz	01/Oct/2019	30/Sep/2020
Pulse Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	14/Mar/2019	13/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
CABLE 0.2m	HUBER	329022/4	RF Cable - 02	30 to 1000MHz 1 to 18GHz	02/Jan/2020	01/Jan/2021
CABLE 0.2m	HUBER	329013/3	RF Cable - 18	30 to 1000MHz 1 to 18GHz	02/Jan/2020	01/Jan/2021
CABLE 0.5m	HUBER	MY39476/4	RF Cable - 47	30 to 1000MHz 1 to 18GHz	02/Jan/2020	01/Jan/2021



Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	22/Apr/2019	21/Apr/2020
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	13/Jun/2019	12/Jun/2020
Microwave System Premplifier	Agilent	8449B	3008A02326	1GHz ~ 26.5GHz	15/Jul/2019	14/Jul/2020
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	07/Aug/2019	06/Aug/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	11/Oct/2019	10/Oct/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	22/May/2019	21/May/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	22/May/2019	21/May/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
LF-CABLE-2019 0218	Jye Bao	RG142	CB028	9kHz ~ 1GHz	17/Feb/2020	16/Feb/2021
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	13/Mar/2019	12/Mar/2020

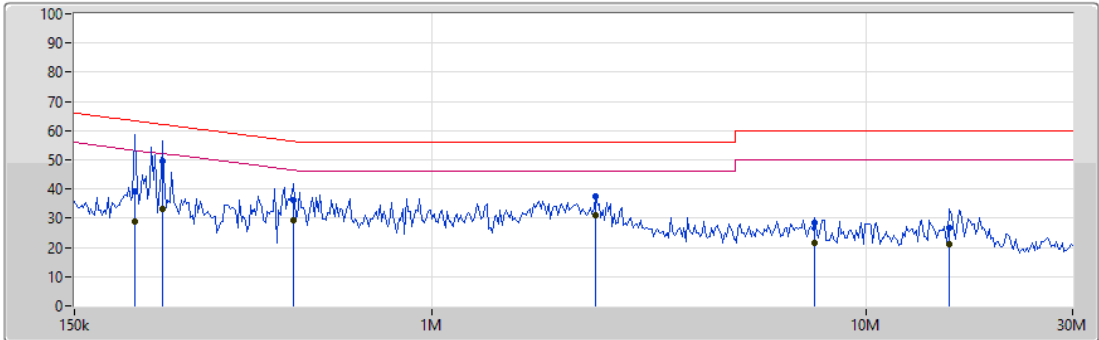




AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	USB Mode		

28/12/2019



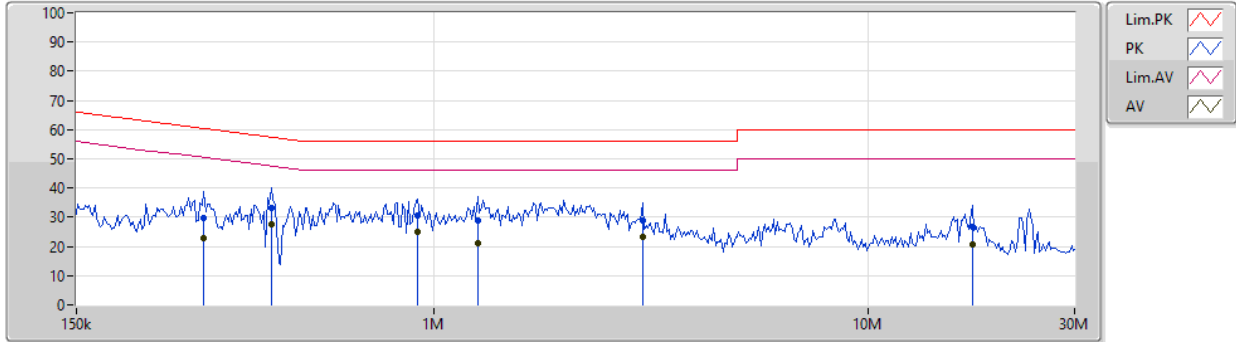
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	206.241k	39.31	63.36	-24.05	19.62	Neutral	-	19.69	9.64	0.11	9.87
AV	206.241k	29.02	53.36	-24.34	19.62	Neutral	-	9.40	9.64	0.11	9.87
QP	239.44k	49.50	62.12	-12.62	19.63	Neutral	"Worst"	29.87	9.64	0.12	9.87
AV	239.44k	33.21	52.12	-18.91	19.63	Neutral	-	13.58	9.64	0.12	9.87
QP	480.498k	36.32	56.33	-20.01	19.63	Neutral	-	16.69	9.63	0.13	9.87
AV	480.498k	29.17	46.33	-17.16	19.63	Neutral	-	9.54	9.63	0.13	9.87
QP	2.385M	37.35	56.00	-18.65	19.68	Neutral	-	17.67	9.65	0.16	9.87
AV	2.385M	31.24	46.00	-14.76	19.68	Neutral	-	11.56	9.65	0.16	9.87
QP	7.639M	28.45	60.00	-31.55	19.81	Neutral	-	8.64	9.69	0.24	9.88
AV	7.639M	21.37	50.00	-28.63	19.81	Neutral	-	1.56	9.69	0.24	9.88
QP	15.638M	26.54	60.00	-33.46	19.91	Neutral	-	6.63	9.71	0.32	9.88
AV	15.638M	20.96	50.00	-29.04	19.91	Neutral	-	1.05	9.71	0.32	9.88



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	USB Mode		

28/12/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	295.083k	29.53	60.38	-30.85	19.63	Line	-	9.90	9.64	0.12	9.87
AV	295.083k	22.91	50.38	-27.47	19.63	Line	-	3.28	9.64	0.12	9.87
QP	422.196k	33.02	57.40	-24.38	19.64	Line	-	13.38	9.64	0.13	9.87
AV	422.196k	27.62	47.40	-19.78	19.64	Line	"Worst"	7.98	9.64	0.13	9.87
QP	917.448k	30.80	56.00	-25.20	19.63	Line	-	11.17	9.64	0.11	9.88
AV	917.448k	25.18	46.00	-20.82	19.63	Line	-	5.55	9.64	0.11	9.88
QP	1.261M	28.76	56.00	-27.24	19.64	Line	-	9.12	9.64	0.12	9.88
AV	1.261M	21.11	46.00	-24.89	19.64	Line	-	1.47	9.64	0.12	9.88
QP	3.028M	28.89	56.00	-27.11	19.71	Line	-	9.18	9.66	0.17	9.88
AV	3.028M	23.07	46.00	-22.93	19.71	Line	-	3.36	9.66	0.17	9.88
QP	17.446M	26.69	60.00	-33.31	19.88	Line	-	6.81	9.65	0.34	9.89
AV	17.446M	20.71	50.00	-29.29	19.88	Line	-	0.83	9.65	0.34	9.89



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.075M	15.017M	15M0G1D	10.05M	14.943M
802.11g_Nss1,(6Mbps)_2TX	16.55M	26.712M	26M7D1D	16.475M	16.667M
802.11n HT20_Nss1,(MCS0)_2TX	17.825M	27.361M	27M4D1D	17.7M	17.791M
802.11n HT40_Nss1,(MCS0)_2TX	36.4M	36.182M	36M2D1D	36.35M	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)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	10.05M	14.968M	10.05M	15.017M
2437MHz_TnomVnom	Pass	500k	10.075M	14.943M	10.075M	14.993M
2462MHz_TnomVnom	Pass	500k	10.075M	14.993M	10.075M	15.017M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.55M	16.742M	16.525M	16.817M
2437MHz_TnomVnom	Pass	500k	16.5M	23.863M	16.475M	26.712M
2462MHz_TnomVnom	Pass	500k	16.525M	16.667M	16.55M	16.667M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.775M	17.816M	17.8M	17.916M
2437MHz_TnomVnom	Pass	500k	17.825M	25.812M	17.8M	27.361M
2462MHz_TnomVnom	Pass	500k	17.75M	17.791M	17.7M	17.841M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	36.4M	35.982M	36.35M	36.082M
2437MHz_TnomVnom	Pass	500k	36.35M	36.032M	36.35M	36.182M
2452MHz_TnomVnom	Pass	500k	36.35M	35.982M	36.35M	35.982M

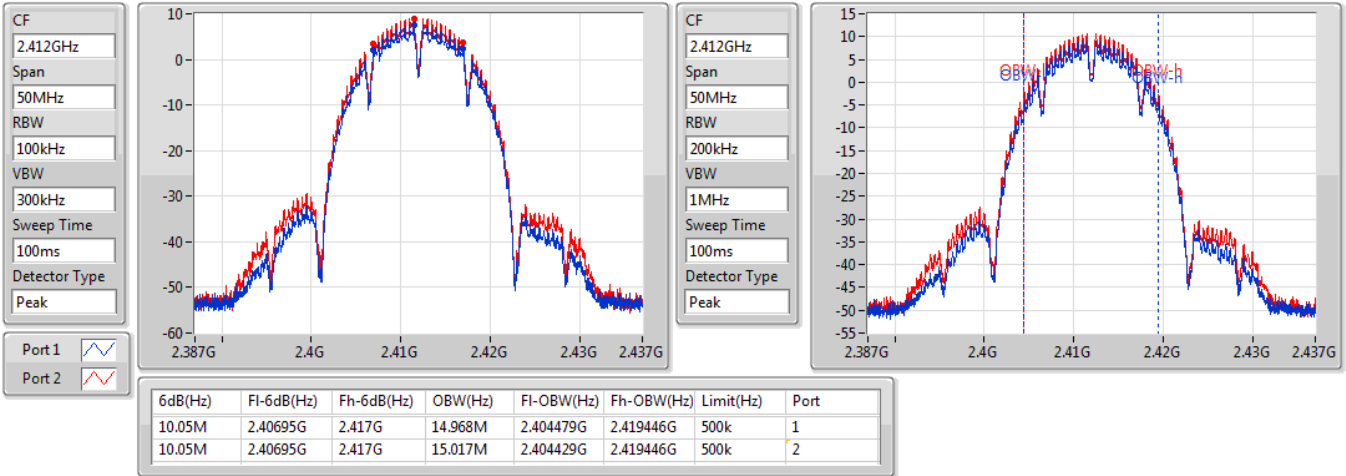
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2412MHz

11/03/2020

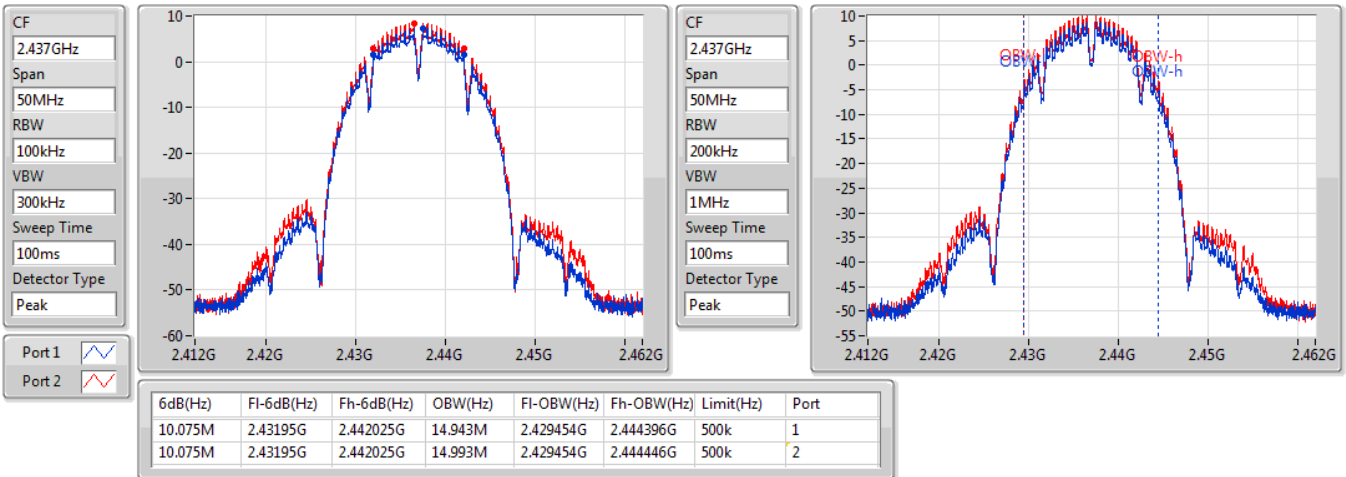


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2437MHz

11/03/2020



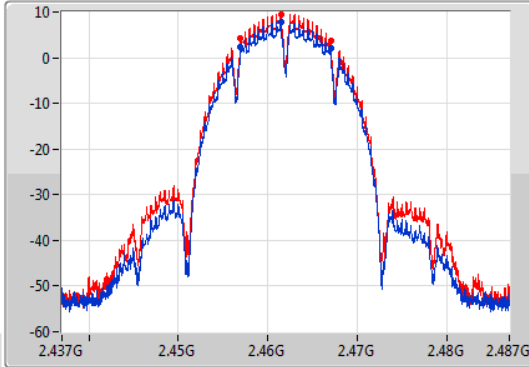
### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

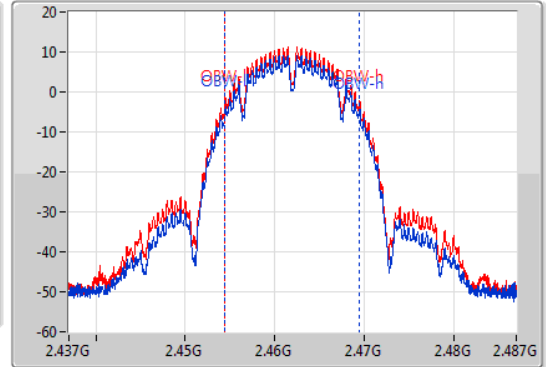
2462MHz

11/03/2020

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



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
10.075M	2.45695G	2.467025G	14.993M	2.454454G	2.469446G	500k	1
10.075M	2.45695G	2.467025G	15.017M	2.454429G	2.469446G	500k	2

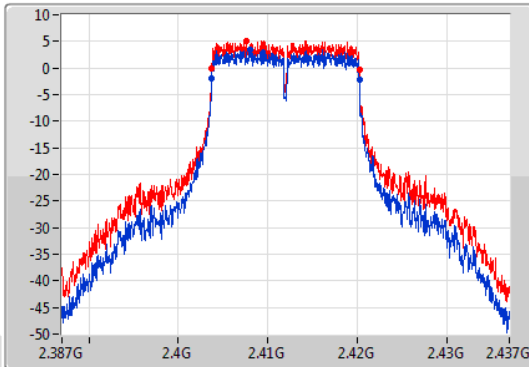
### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

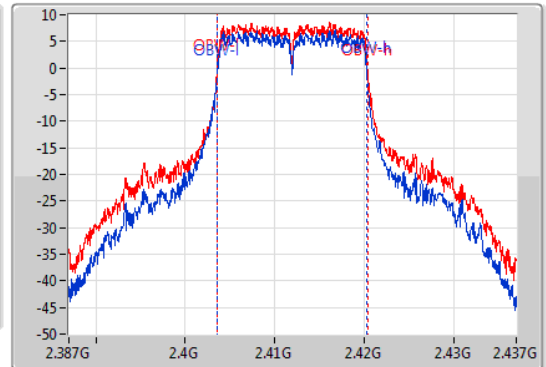
2412MHz

11/03/2020

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



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
16.55M	2.4037G	2.42025G	16.742M	2.403554G	2.420296G	500k	1
16.525M	2.403725G	2.42025G	16.817M	2.403579G	2.420396G	500k	2

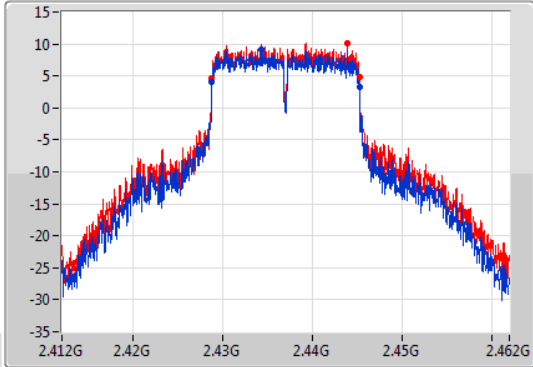
### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

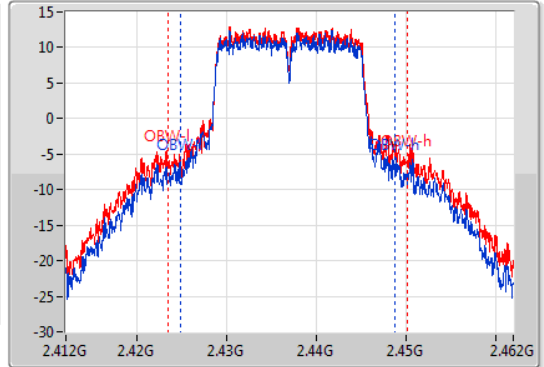
2437MHz

11/03/2020

CF  
2.437GHz  
Span  
50MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
2.437GHz  
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
16.5M	2.42875G	2.44525G	23.863M	2.424856G	2.448719G	500k	1
16.475M	2.42875G	2.445225G	26.712M	2.423482G	2.450193G	500k	2

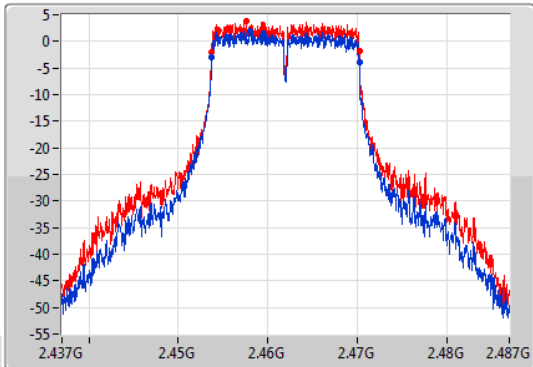
### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

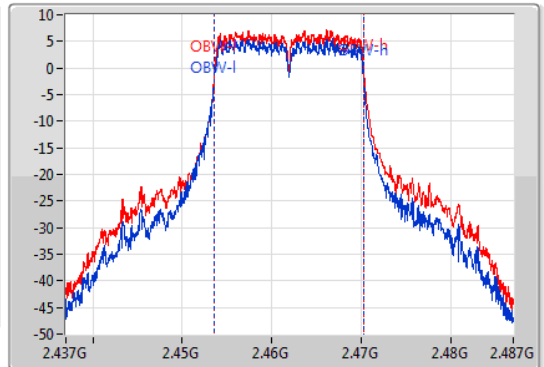
2462MHz

11/03/2020

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



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
16.525M	2.453725G	2.47025G	16.667M	2.453554G	2.470221G	500k	1
16.55M	2.4537G	2.47025G	16.667M	2.453629G	2.470296G	500k	2

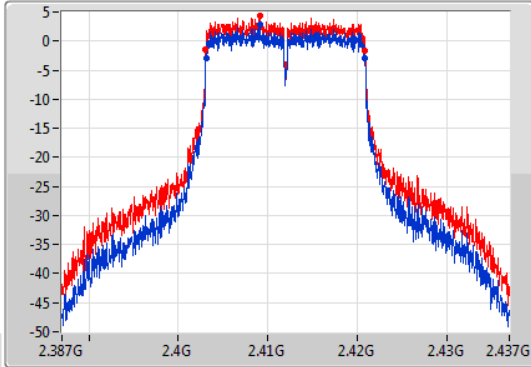
### 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

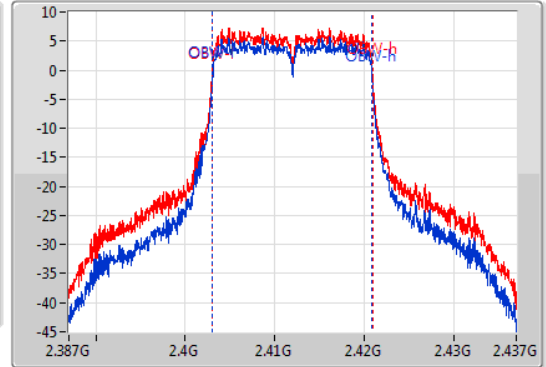
2412MHz

11/03/2020

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



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
17.775M	2.4031G	2.420875G	17.816M	2.403054G	2.420871G	500k	1
17.8M	2.403075G	2.420875G	17.916M	2.403004G	2.420921G	500k	2

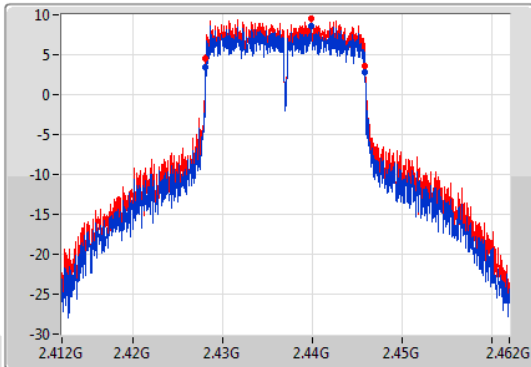
### 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

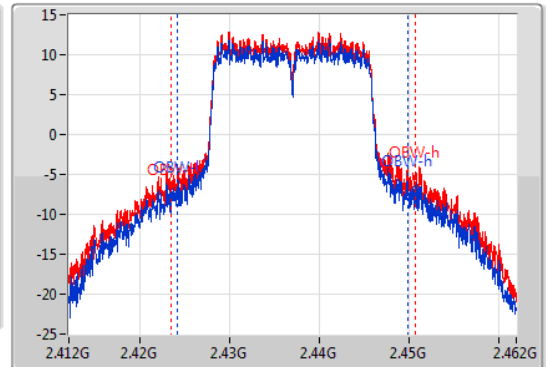
2437MHz

11/03/2020

CF  
2.437GHz  
Span  
50MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
2.437GHz  
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
17.825M	2.428075G	2.4459G	25.812M	2.424106G	2.449919G	500k	1
17.8M	2.428075G	2.445875G	27.361M	2.423382G	2.450743G	500k	2

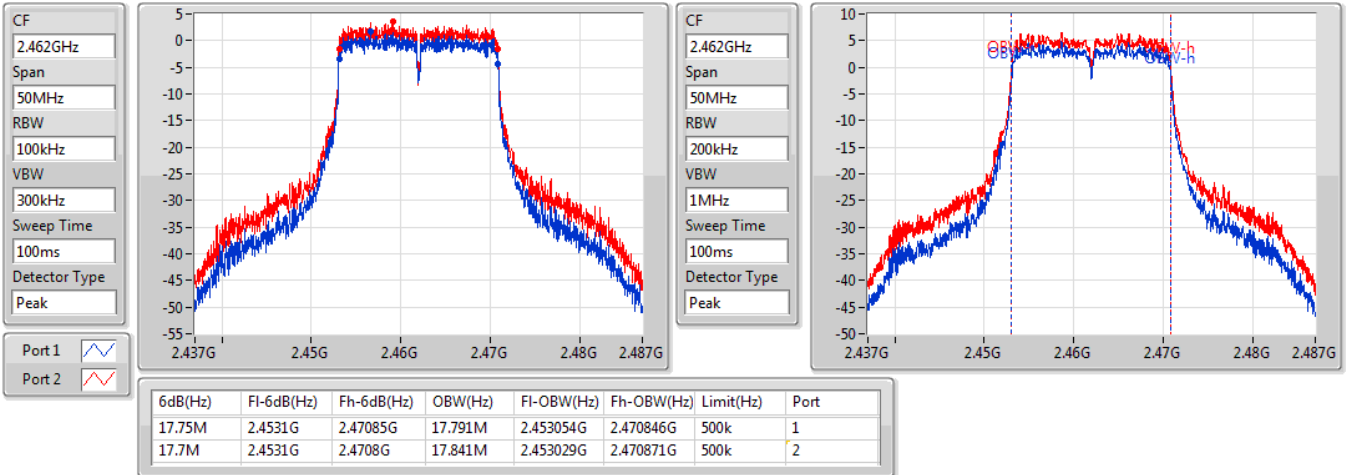


### 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

2462MHz

11/03/2020

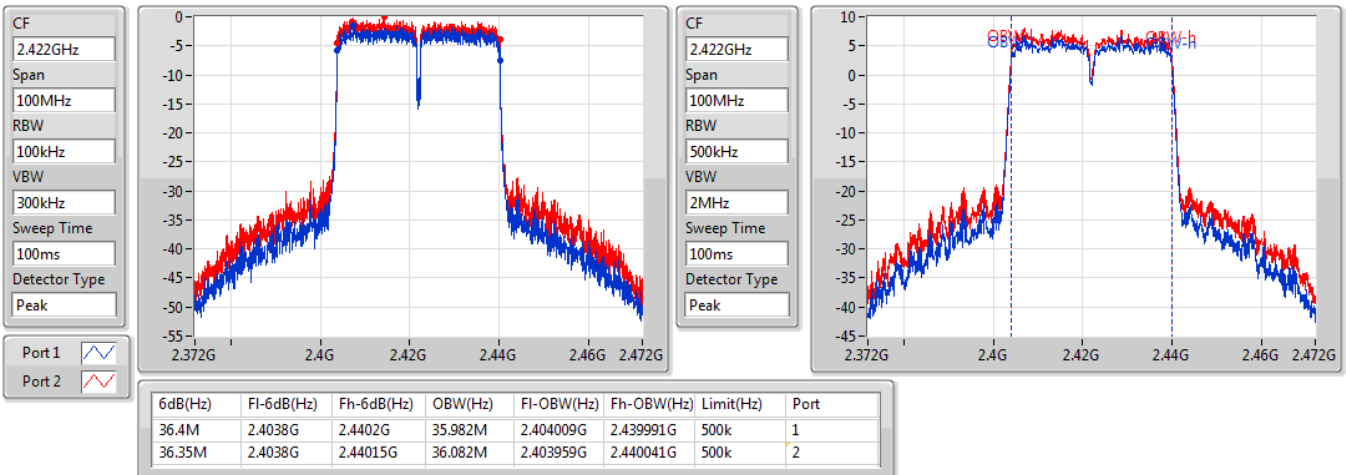


### 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

2422MHz

11/03/2020

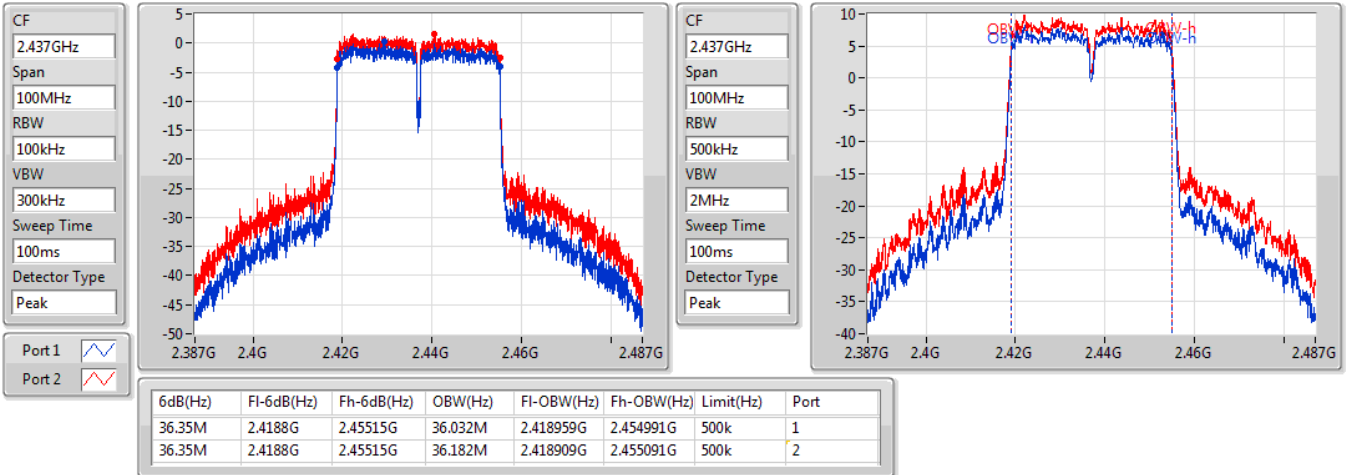


### 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

2437MHz

11/03/2020

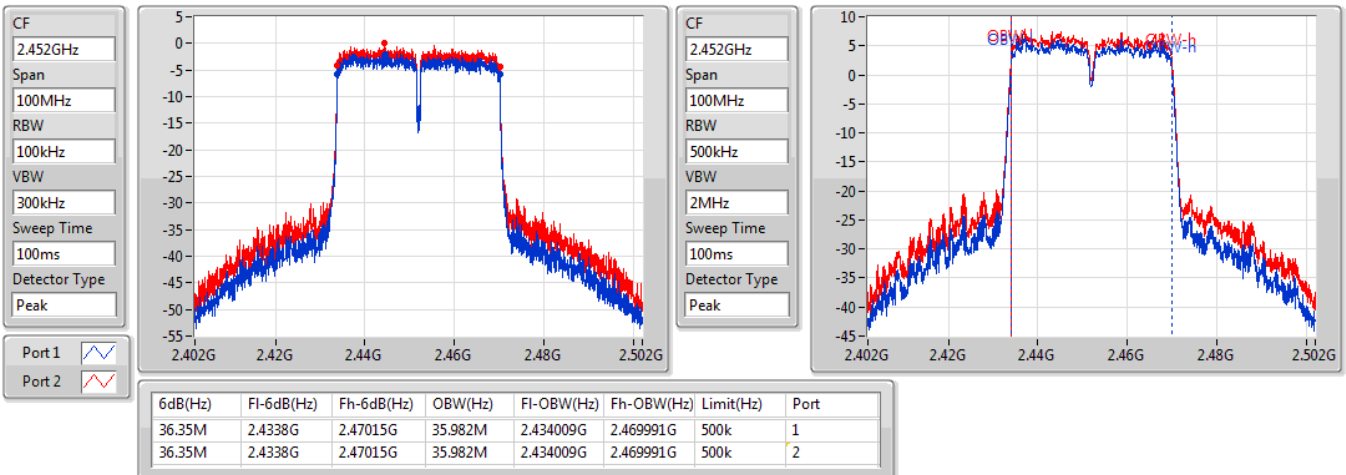


### 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

2452MHz

11/03/2020





**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	21.86	0.15346
802.11g_Nss1,(6Mbps)_2TX	26.27	0.42364
802.11n HT20_Nss1,(MCS0)_2TX	26.06	0.40365
802.11n HT40_Nss1,(MCS0)_2TX	21.24	0.13305



**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.48	17.67	19.18	21.50	30.00
2437MHz_TnomVnom	Pass	2.48	17.25	18.64	21.01	30.00
2462MHz_TnomVnom	Pass	2.48	17.81	19.69	21.86	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.48	17.80	19.41	21.69	30.00
2417MHz_TnomVnom	Pass	2.48	21.11	22.17	24.68	30.00
2437MHz_TnomVnom	Pass	2.48	22.80	23.68	26.27	30.00
2457MHz_TnomVnom	Pass	2.48	20.70	21.89	24.35	30.00
2462MHz_TnomVnom	Pass	2.48	16.20	17.93	20.16	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.48	16.64	18.26	20.54	30.00
2417MHz_TnomVnom	Pass	2.48	21.57	22.84	25.26	30.00
2437MHz_TnomVnom	Pass	2.48	22.60	23.46	26.06	30.00
2457MHz_TnomVnom	Pass	2.48	20.96	22.31	24.70	30.00
2462MHz_TnomVnom	Pass	2.48	15.68	17.49	19.69	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.48	15.98	17.19	19.64	30.00
2427MHz_TnomVnom	Pass	2.48	16.87	18.52	20.78	30.00
2437MHz_TnomVnom	Pass	2.48	17.44	18.90	21.24	30.00
2447MHz_TnomVnom	Pass	2.48	16.45	18.15	20.39	30.00
2452MHz_TnomVnom	Pass	2.48	15.50	16.89	19.26	30.00

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



Summary

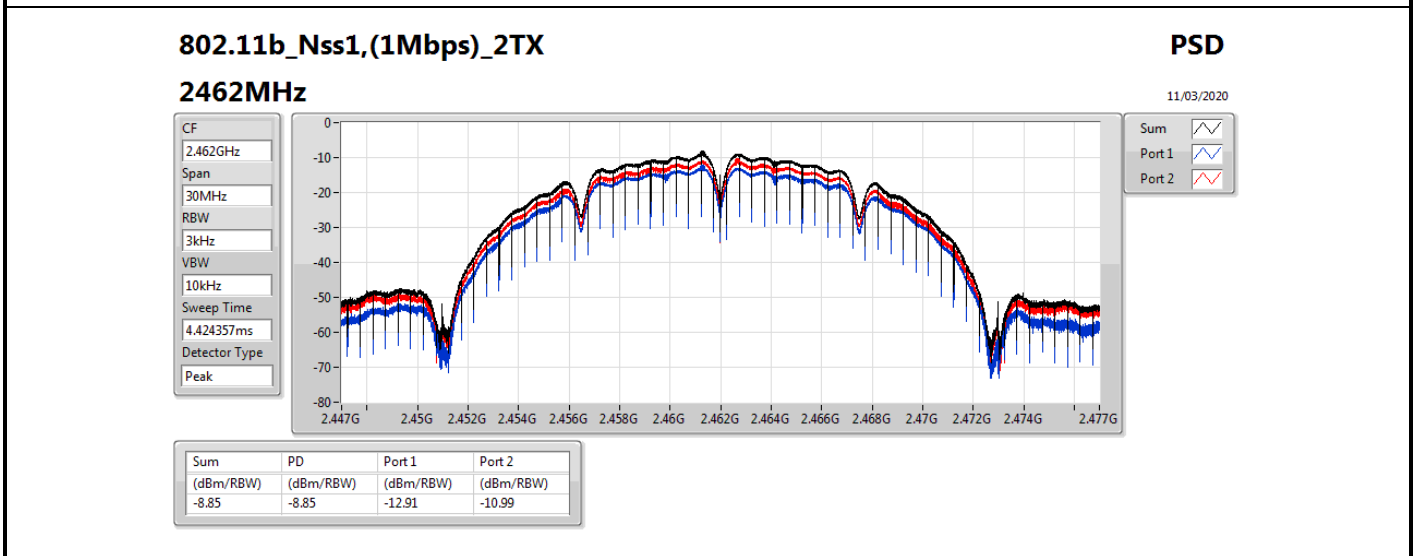
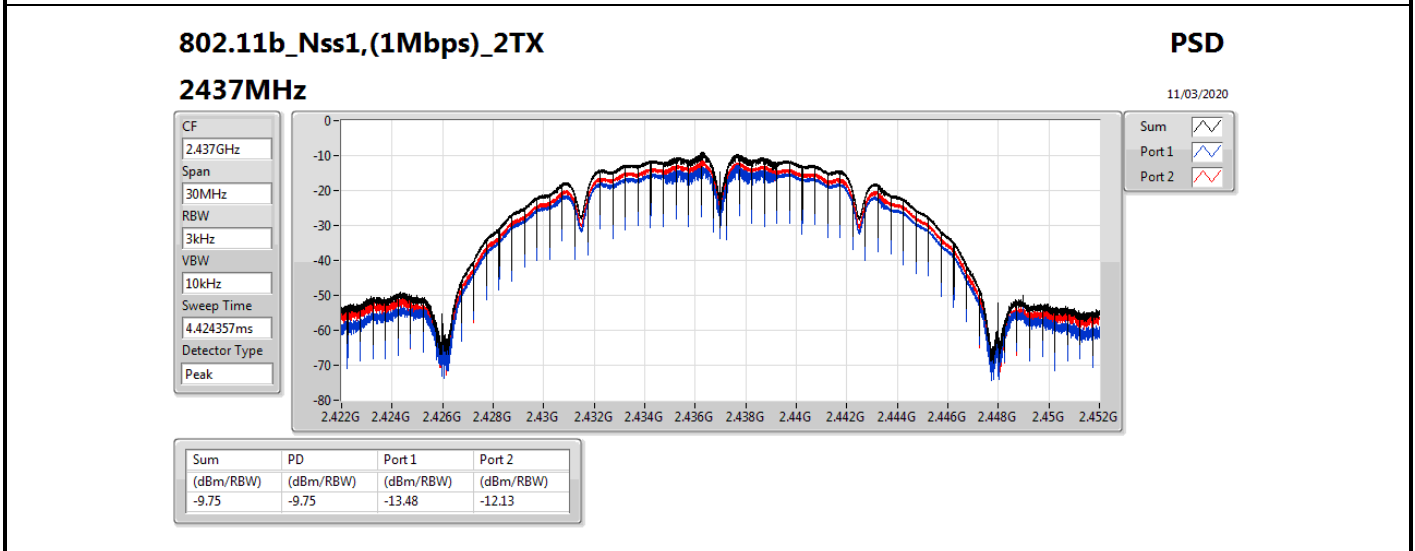
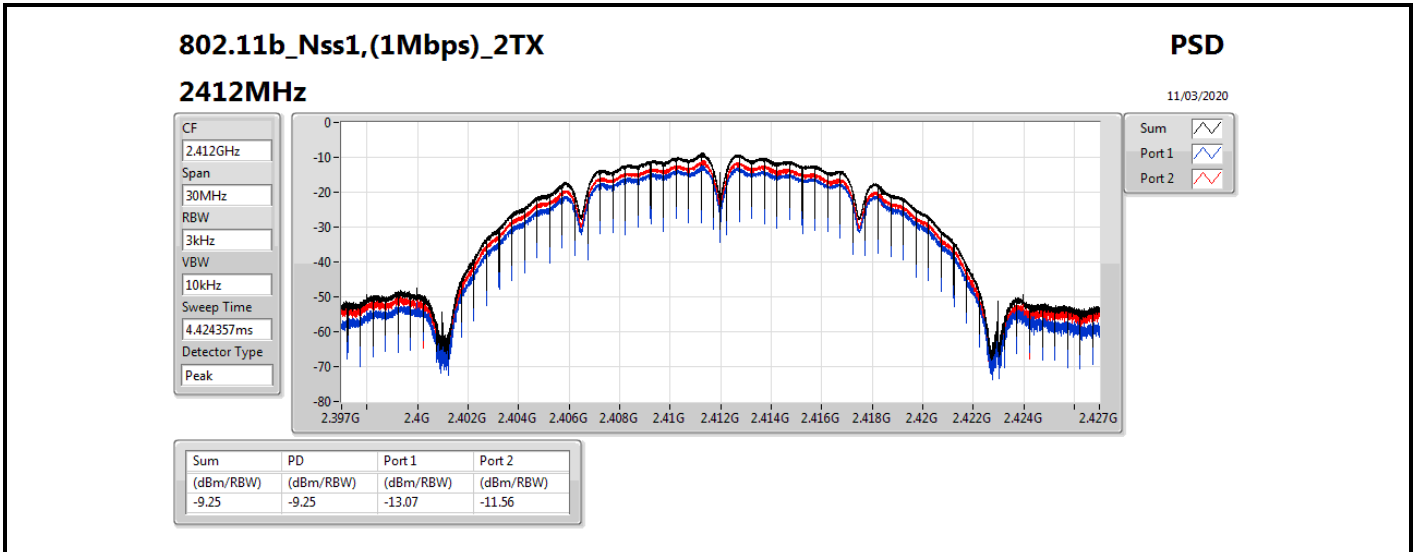
Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-8.85
802.11g_Nss1,(6Mbps)_2TX	-2.43
802.11n HT20_Nss1,(MCS0)_2TX	-2.78
802.11n HT40_Nss1,(MCS0)_2TX	-9.15

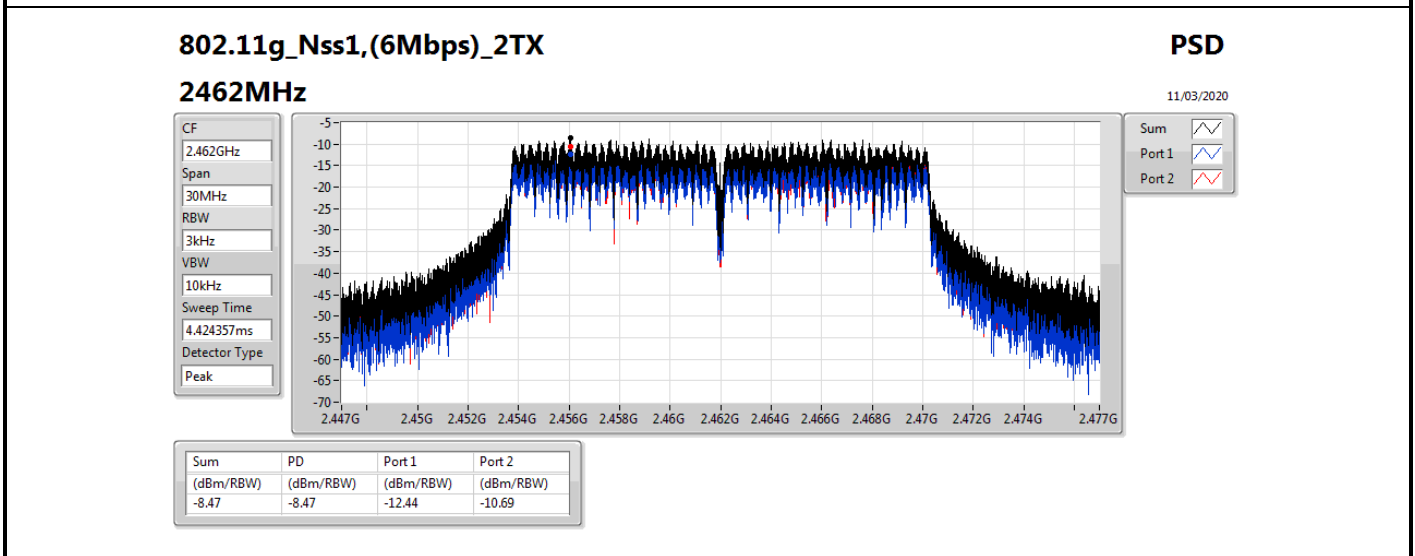
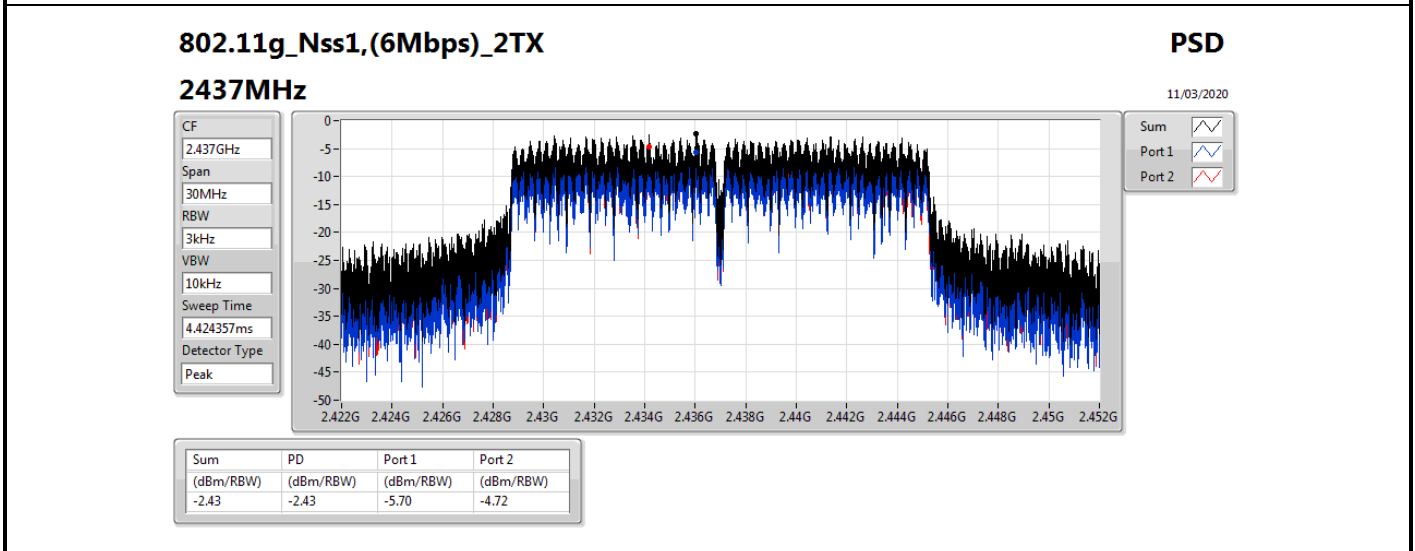
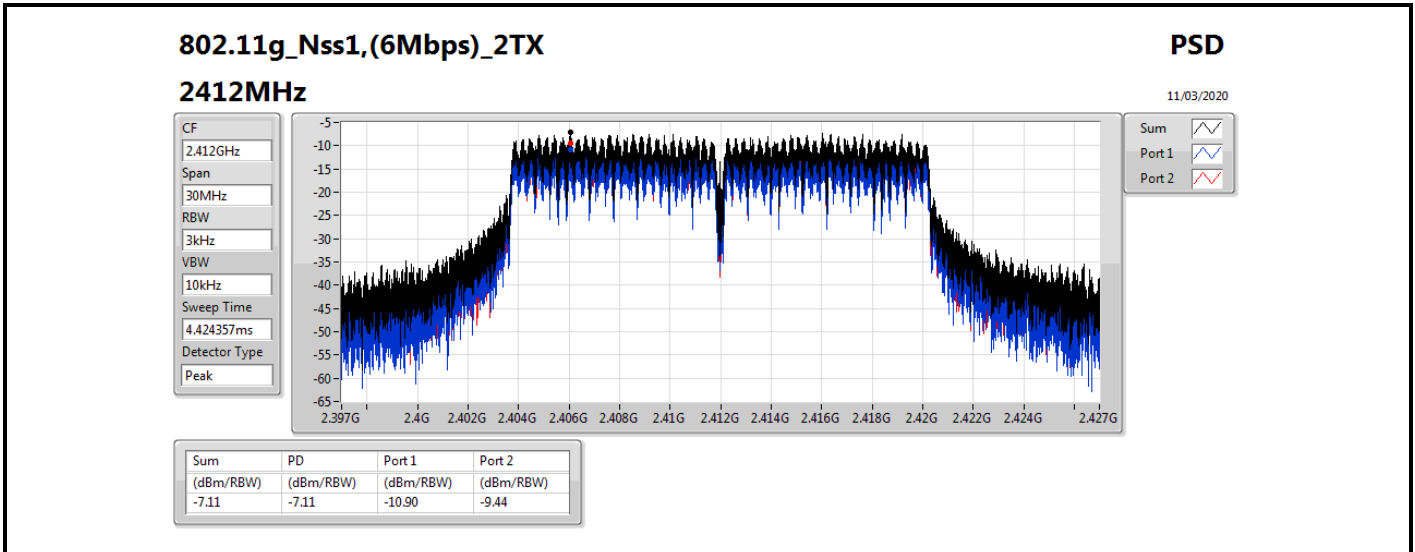
**Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.22	-13.07	-11.56	-9.25	8.00
2437MHz_TnomVnom	Pass	4.22	-13.48	-12.13	-9.75	8.00
2462MHz_TnomVnom	Pass	4.22	-12.91	-10.99	-8.85	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.22	-10.90	-9.44	-7.11	8.00
2437MHz_TnomVnom	Pass	4.22	-5.70	-4.72	-2.43	8.00
2462MHz_TnomVnom	Pass	4.22	-12.44	-10.69	-8.47	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.22	-11.64	-10.25	-7.88	8.00
2437MHz_TnomVnom	Pass	4.22	-6.22	-4.95	-2.78	8.00
2462MHz_TnomVnom	Pass	4.22	-13.22	-10.67	-8.99	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	4.22	-12.72	-13.23	-11.07	8.00
2437MHz_TnomVnom	Pass	4.22	-13.19	-11.23	-9.15	8.00
2452MHz_TnomVnom	Pass	4.22	-13.37	-11.96	-9.64	8.00

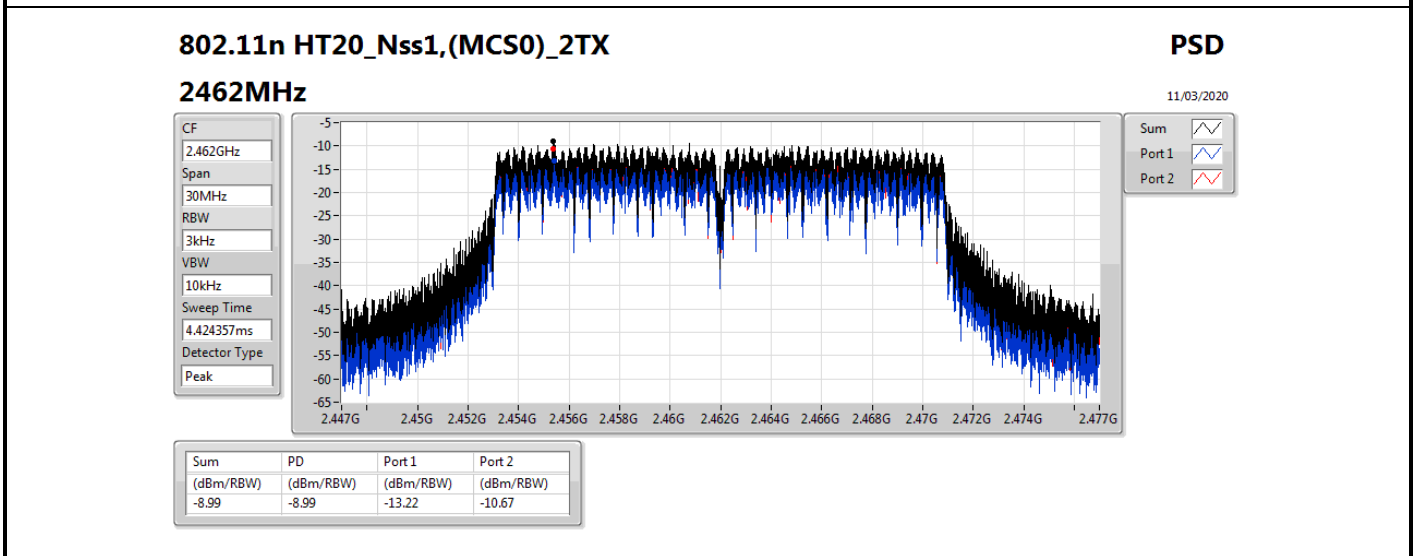
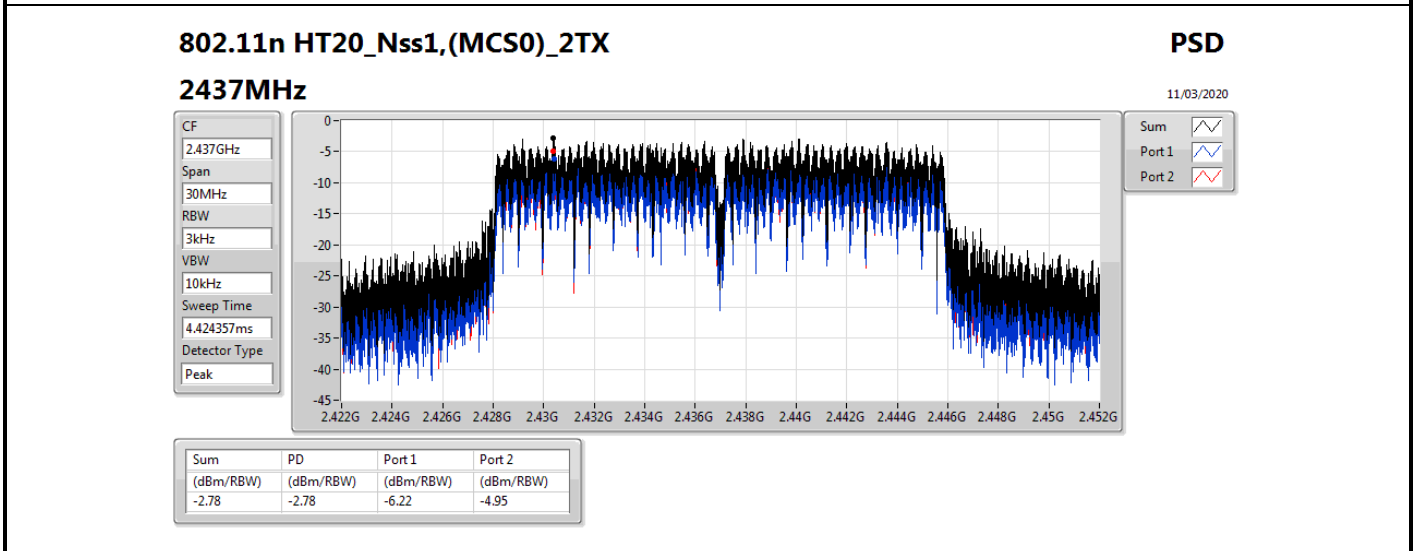
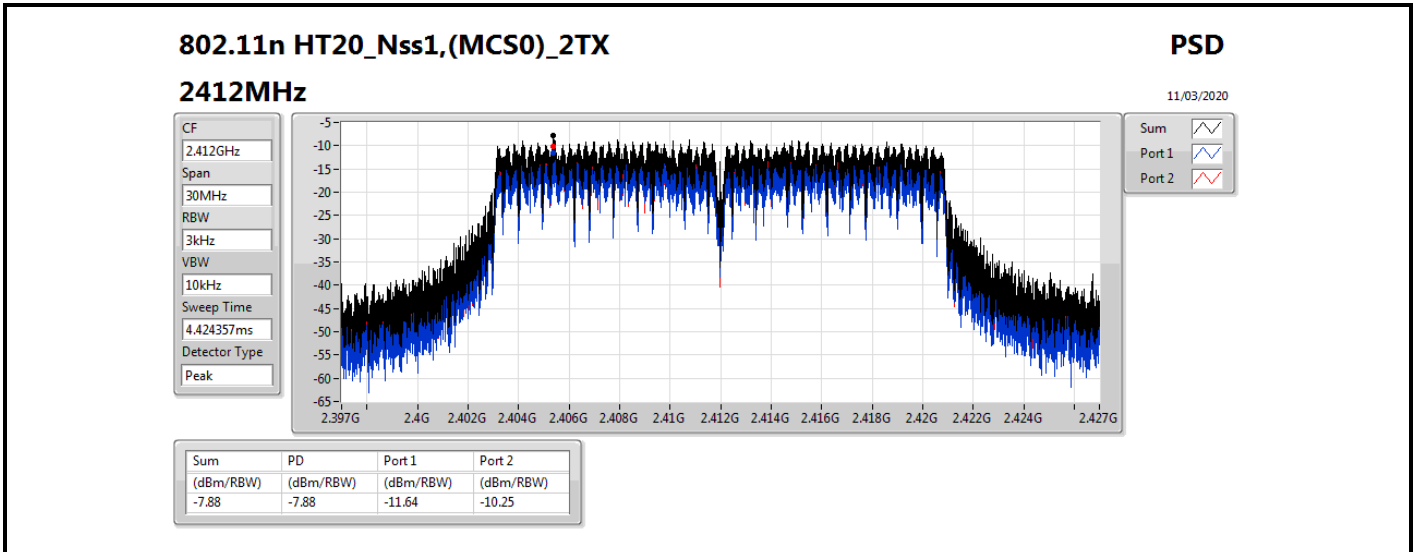
DG = Directional Gain

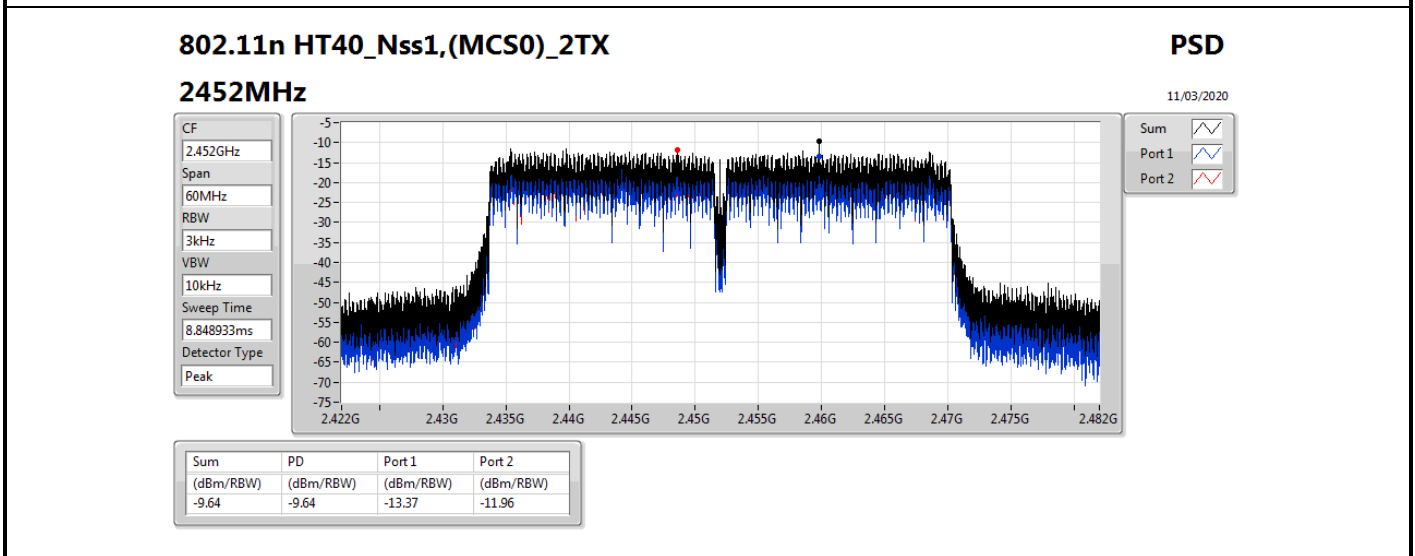
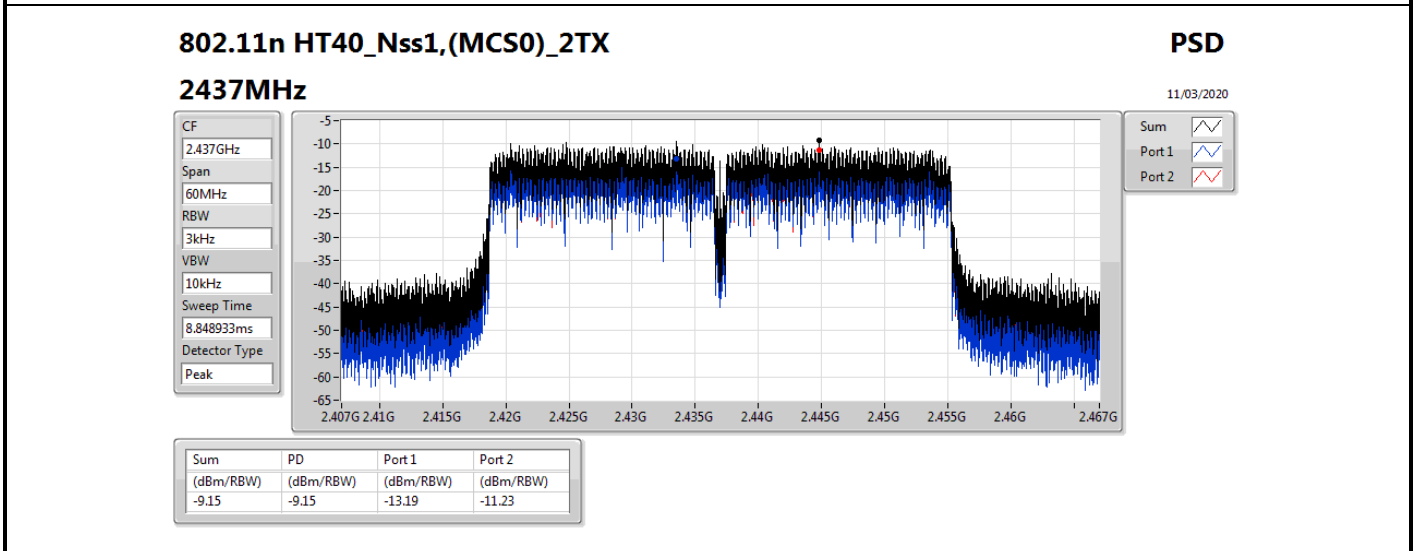
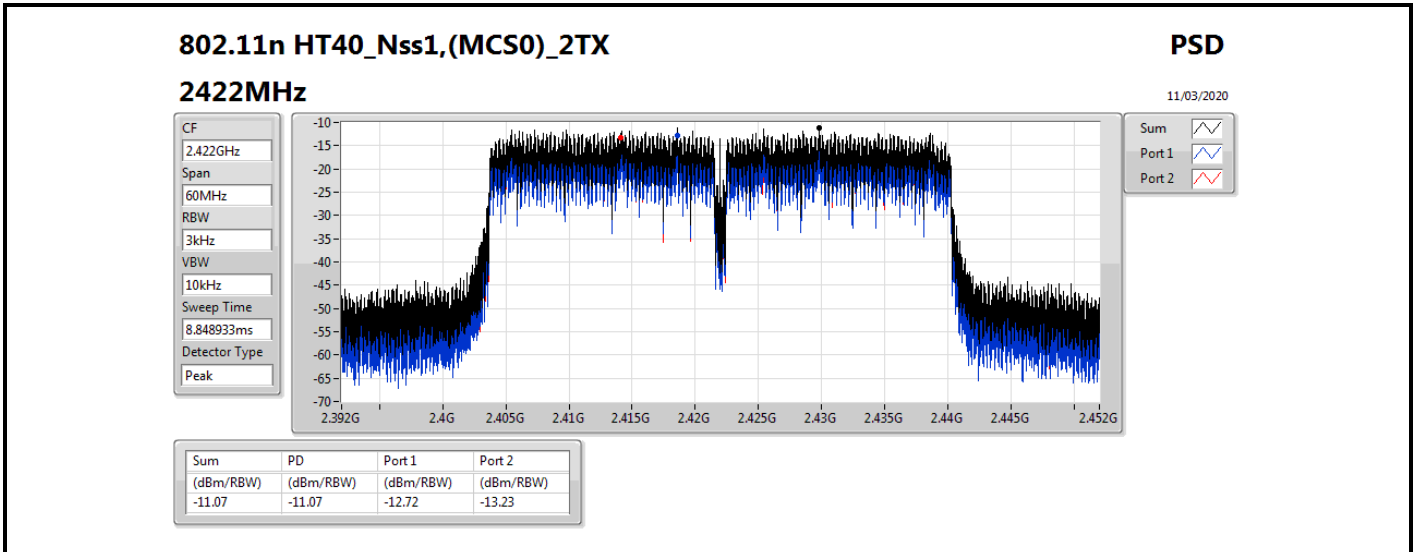
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;













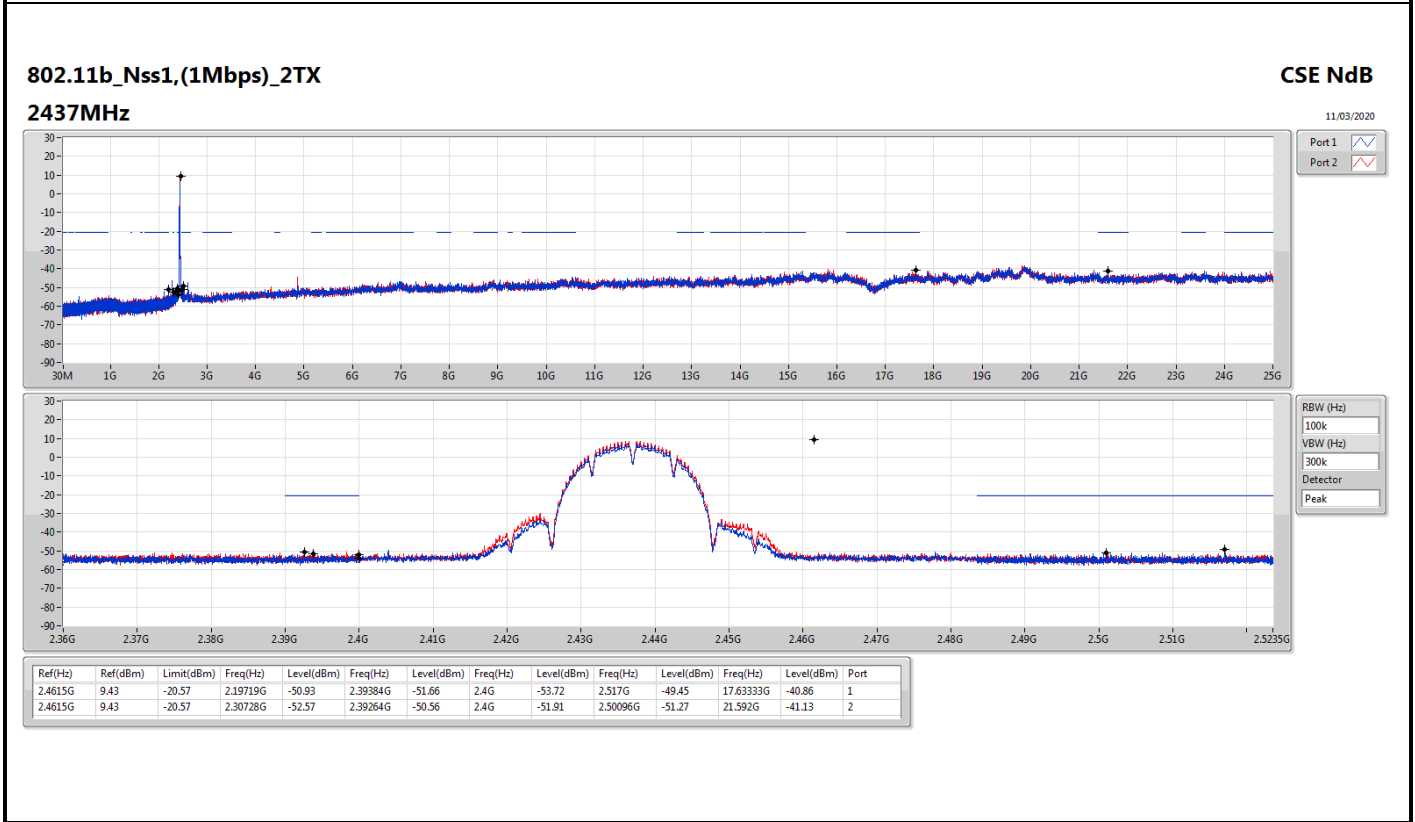
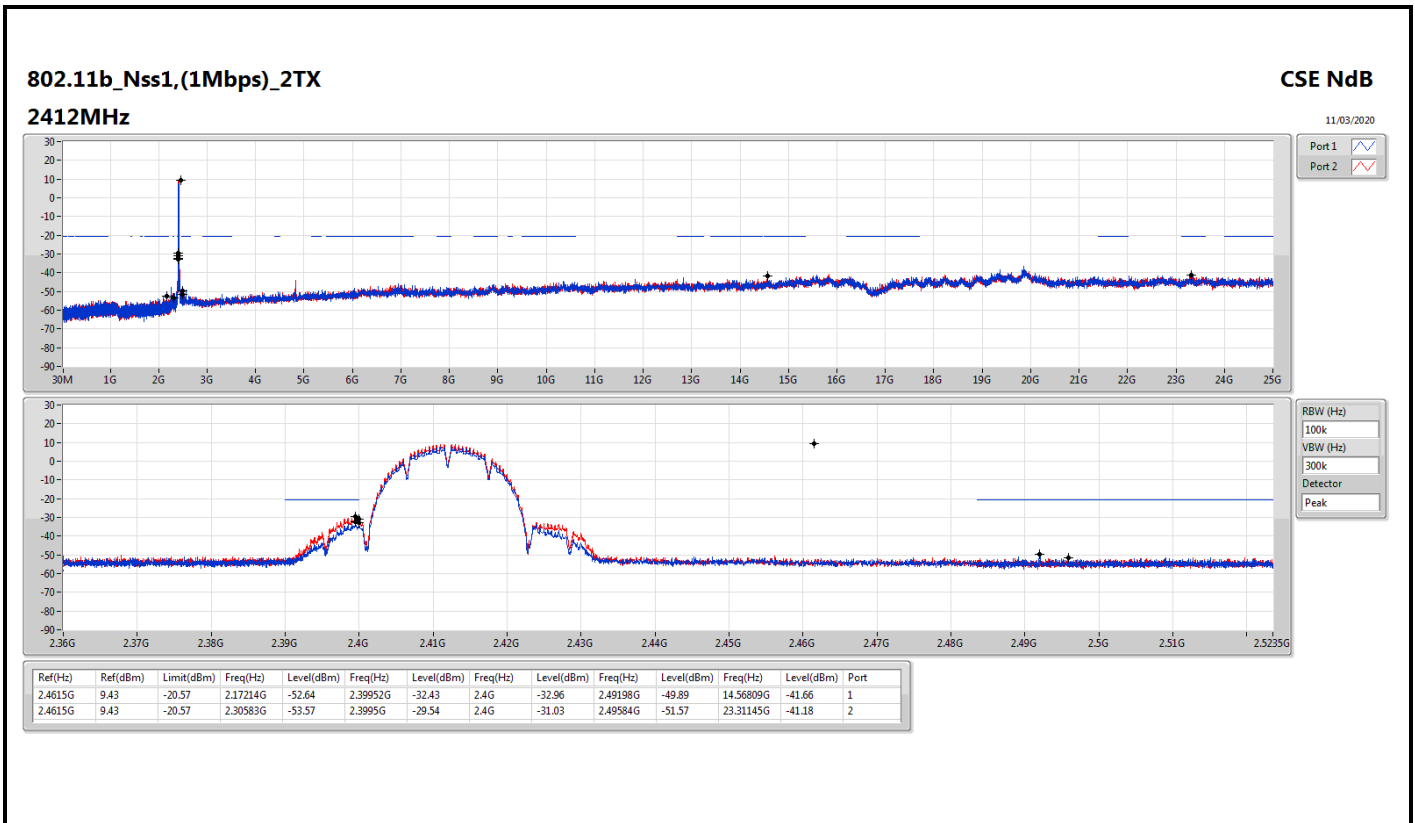
Summary

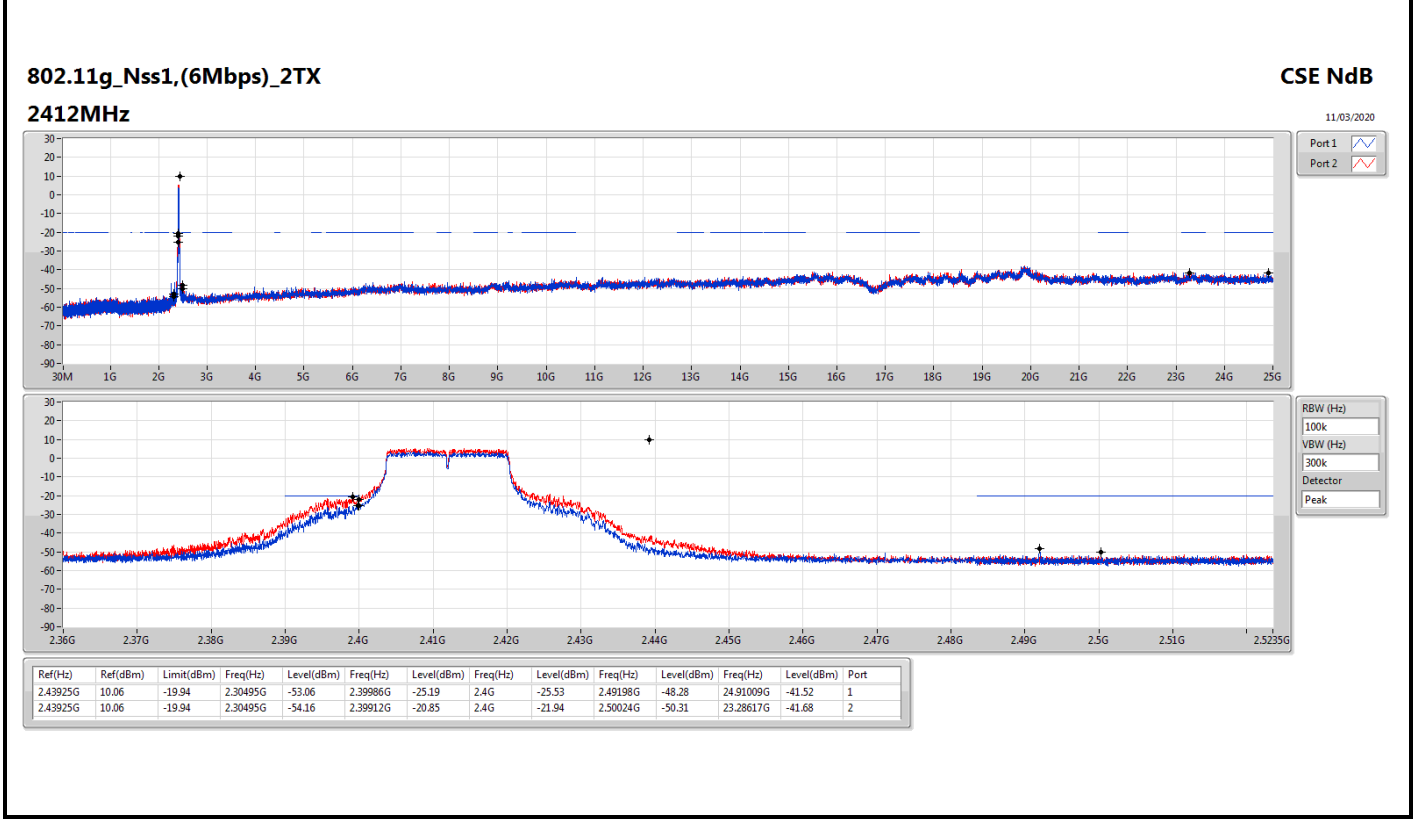
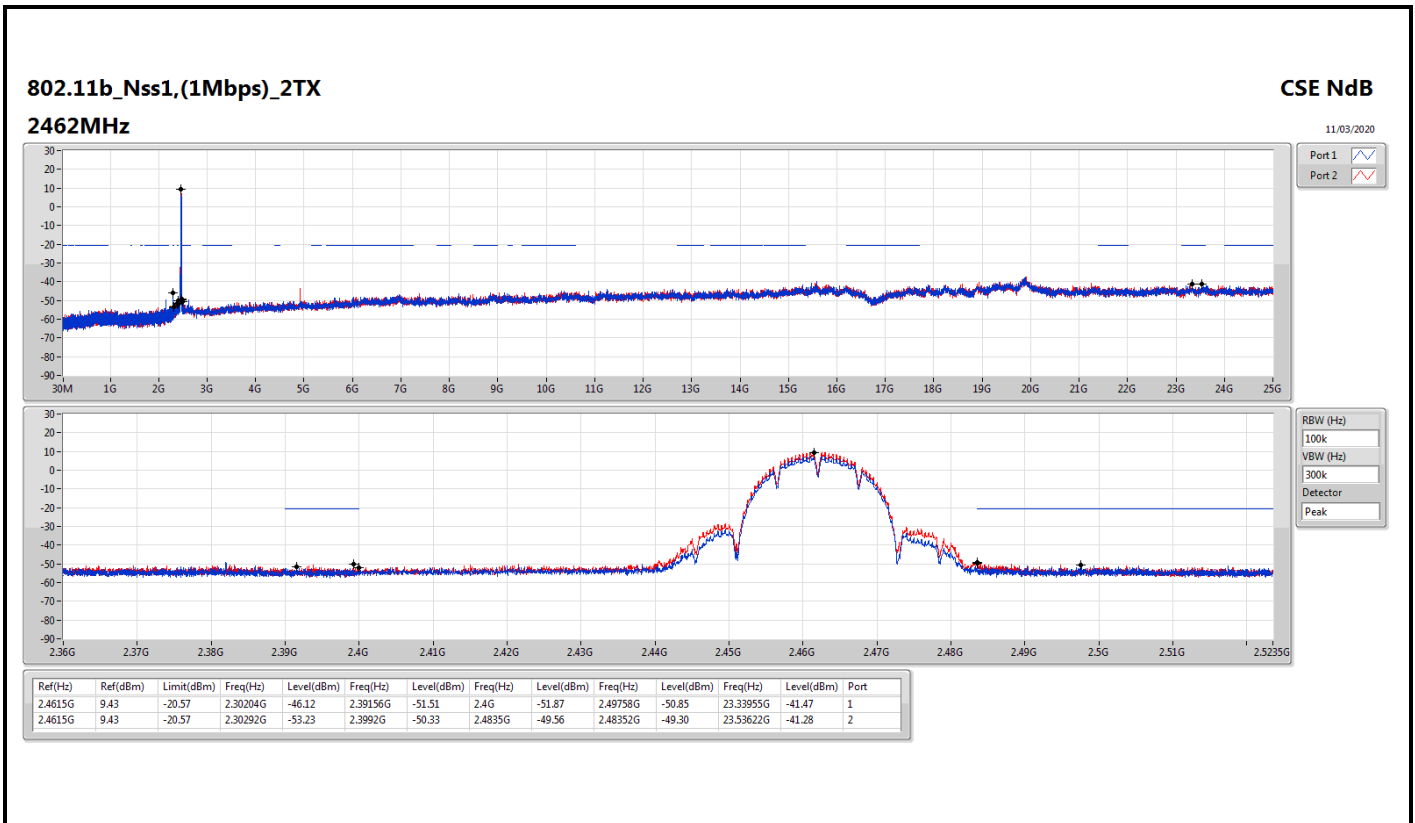
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.4615G	9.43	-20.57	2.30583G	-53.57	2.3995G	-29.54	2.4G	-31.03	2.49584G	-51.57	23.31145G	-41.18	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43925G	10.06	-19.94	2.30495G	-54.16	2.39912G	-20.85	2.4G	-21.94	2.50024G	-50.31	23.28617G	-41.68	2
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.4316G	9.46	-20.54	2.00904G	-53.97	2.39984G	-22.80	2.4G	-26.12	2.5162G	-51.13	21.95724G	-41.56	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.42234G	1.64	-28.36	2.19291G	-53.69	2.39788G	-28.74	2.4G	-32.67	2.48442G	-50.20	24.95793G	-41.44	2

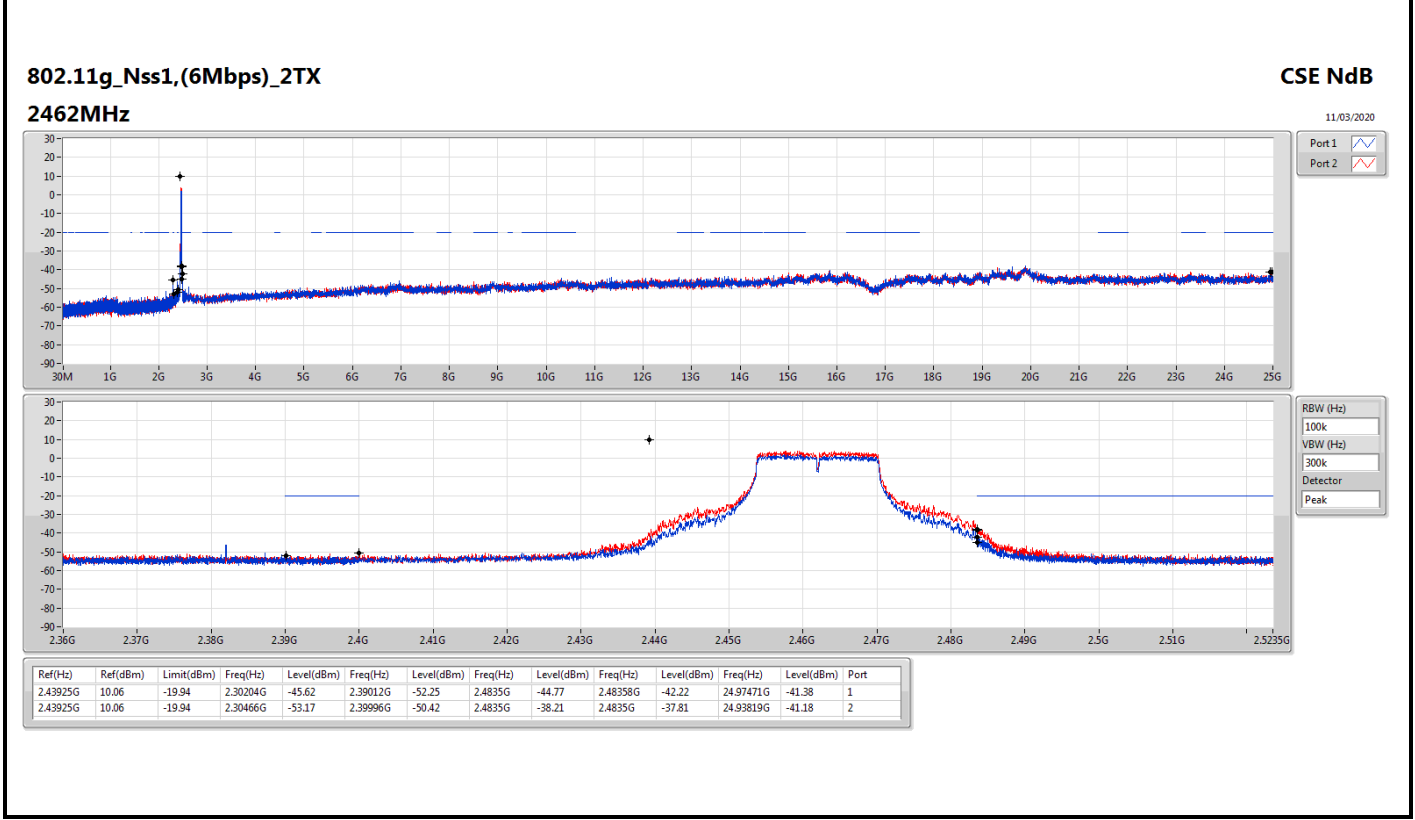
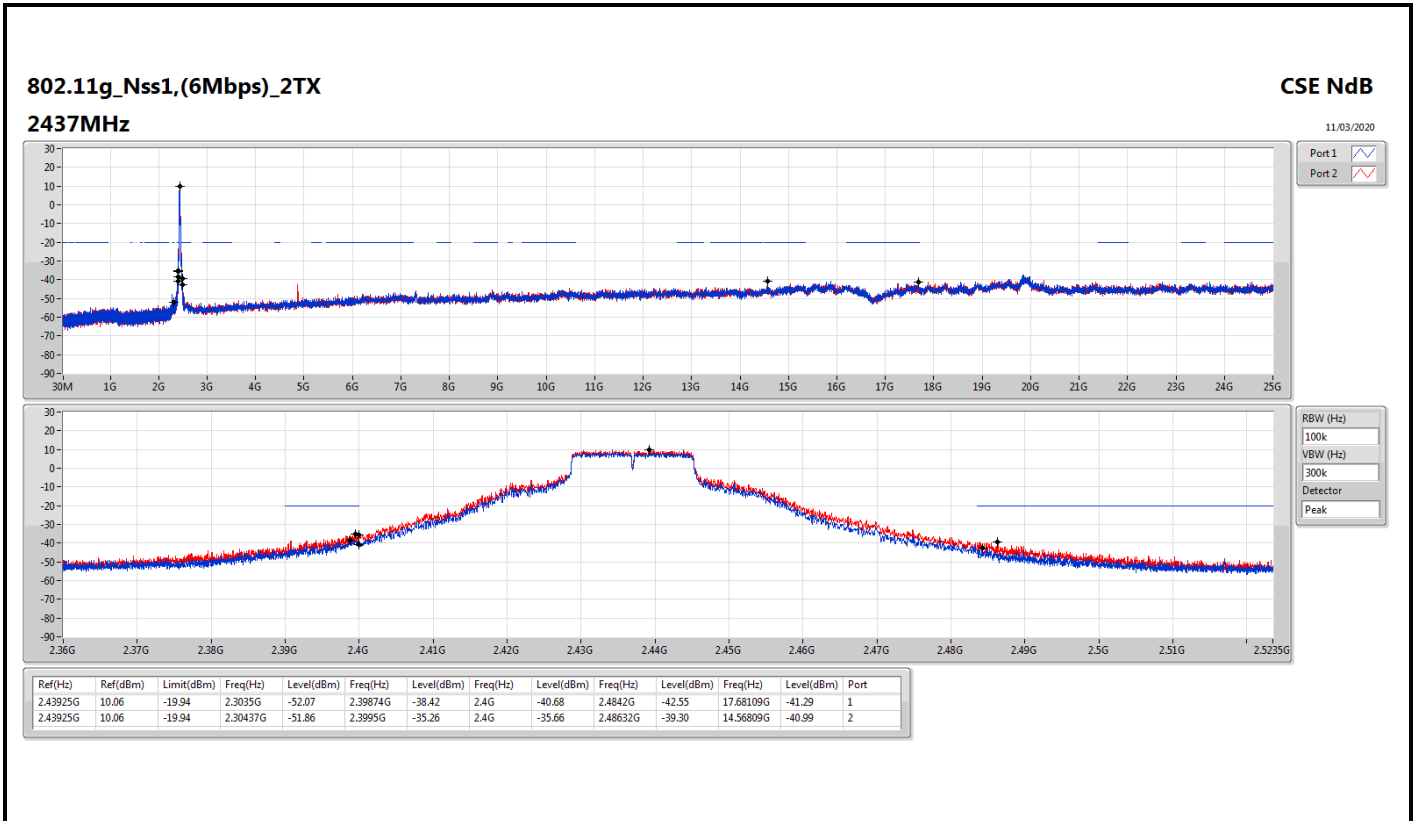


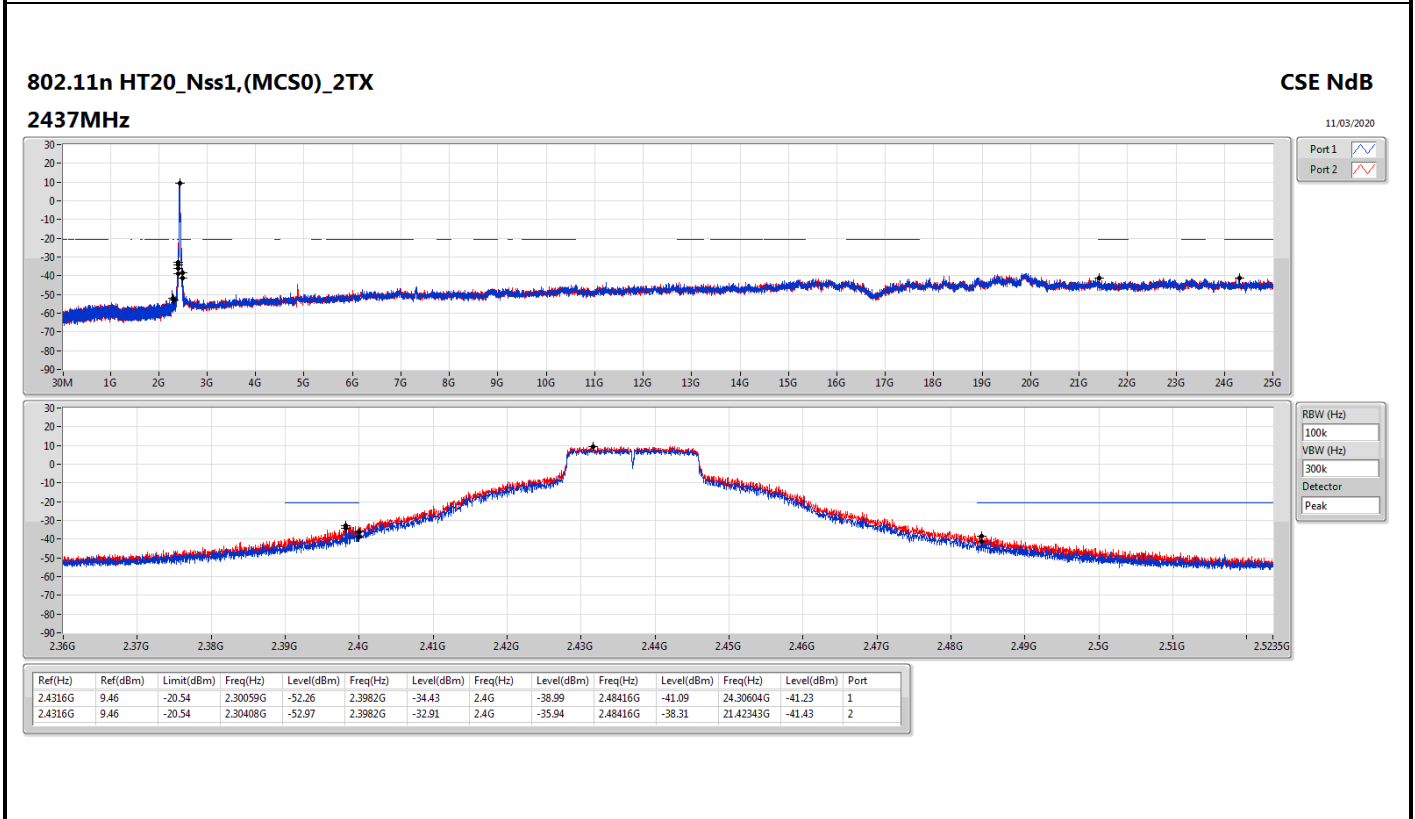
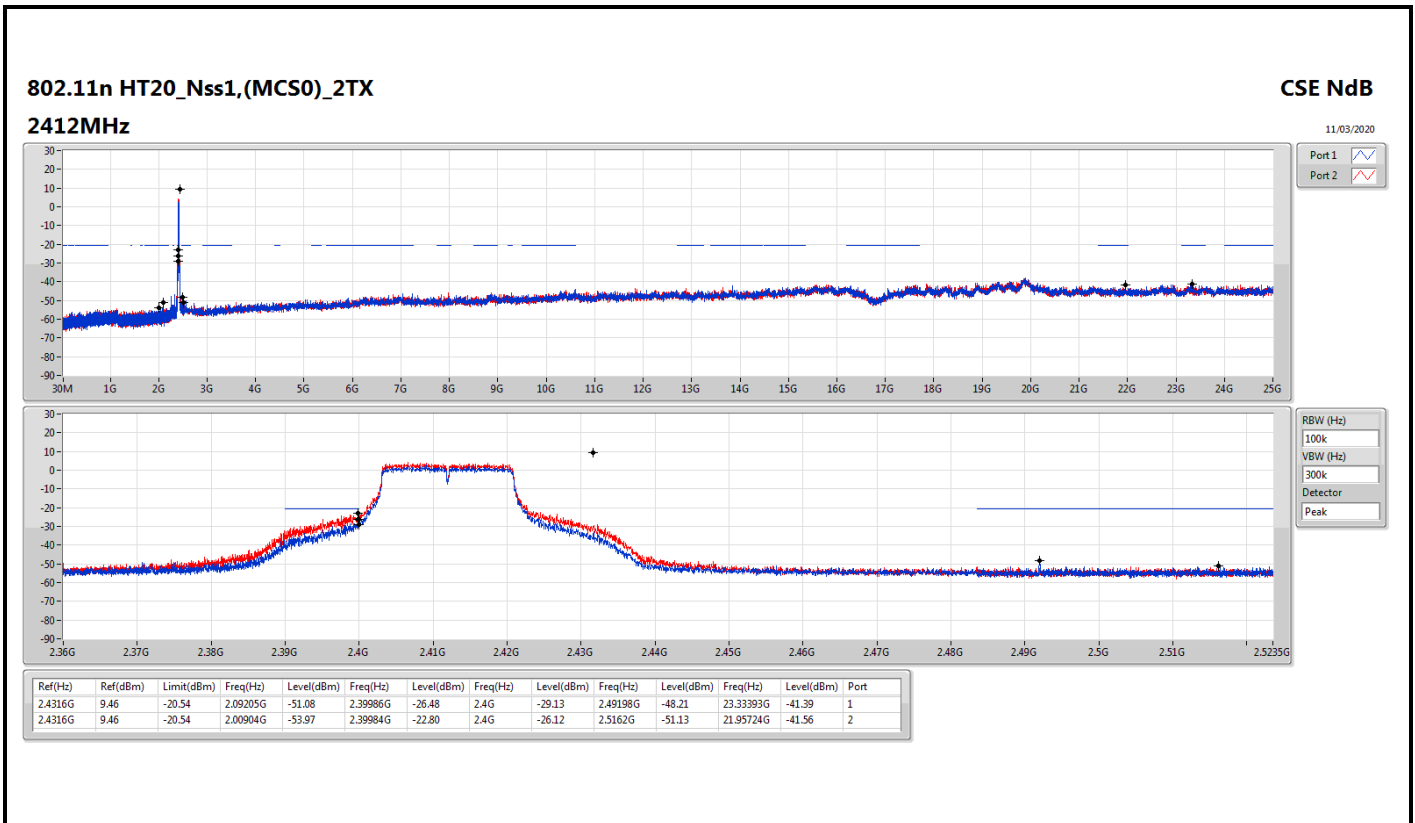
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4615G	9.43	-20.57	2.17214G	-52.64	2.39952G	-32.43	2.4G	-32.96	2.49198G	-49.89	14.56809G	-41.66	1
2412MHz_TnomVnom	Pass	2.4615G	9.43	-20.57	2.30583G	-53.57	2.3995G	-29.54	2.4G	-31.03	2.49584G	-51.57	23.31145G	-41.18	2
2437MHz_TnomVnom	Pass	2.4615G	9.43	-20.57	2.19719G	-50.93	2.39384G	-51.66	2.4G	-53.72	2.517G	-49.45	17.63333G	-40.86	1
2437MHz_TnomVnom	Pass	2.4615G	9.43	-20.57	2.30728G	-52.57	2.39264G	-50.56	2.4G	-51.91	2.50096G	-51.27	21.592G	-41.13	2
2462MHz_TnomVnom	Pass	2.4615G	9.43	-20.57	2.30204G	-46.12	2.39156G	-51.51	2.4G	-51.87	2.49758G	-50.85	23.33955G	-41.47	1
2462MHz_TnomVnom	Pass	2.4615G	9.43	-20.57	2.30292G	-53.23	2.3992G	-50.33	2.4835G	-49.56	2.48352G	-49.30	23.53622G	-41.28	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43925G	10.06	-19.94	2.30495G	-53.06	2.39986G	-25.19	2.4G	-25.53	2.49198G	-48.28	24.91009G	-41.52	1
2412MHz_TnomVnom	Pass	2.43925G	10.06	-19.94	2.30495G	-54.16	2.39912G	-20.85	2.4G	-21.94	2.50024G	-50.31	23.28617G	-41.68	2
2437MHz_TnomVnom	Pass	2.43925G	10.06	-19.94	2.3035G	-52.07	2.39874G	-38.42	2.4G	-40.68	2.4842G	-42.55	17.68109G	-41.29	1
2437MHz_TnomVnom	Pass	2.43925G	10.06	-19.94	2.30437G	-51.86	2.3995G	-35.26	2.4G	-35.66	2.48632G	-39.30	14.56809G	-40.99	2
2462MHz_TnomVnom	Pass	2.43925G	10.06	-19.94	2.30204G	-45.62	2.39012G	-52.25	2.4835G	-44.77	2.48358G	-42.22	24.97471G	-41.38	1
2462MHz_TnomVnom	Pass	2.43925G	10.06	-19.94	2.30466G	-53.17	2.39996G	-50.42	2.4835G	-38.21	2.4835G	-37.81	24.93819G	-41.18	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4316G	9.46	-20.54	2.09205G	-51.08	2.39986G	-26.48	2.4G	-29.13	2.49198G	-48.21	23.33393G	-41.39	1
2412MHz_TnomVnom	Pass	2.4316G	9.46	-20.54	2.00904G	-53.97	2.39984G	-22.80	2.4G	-26.12	2.5162G	-51.13	21.95724G	-41.56	2
2437MHz_TnomVnom	Pass	2.4316G	9.46	-20.54	2.30059G	-52.26	2.3982G	-34.43	2.4G	-38.99	2.48416G	-41.09	24.30604G	-41.23	1
2437MHz_TnomVnom	Pass	2.4316G	9.46	-20.54	2.30408G	-52.97	2.3982G	-32.91	2.4G	-35.94	2.48416G	-38.31	21.42343G	-41.43	2
2462MHz_TnomVnom	Pass	2.4316G	9.46	-20.54	2.30204G	-46.94	2.39998G	-50.14	2.4835G	-40.81	2.48352G	-40.38	17.60804G	-41.71	1
2462MHz_TnomVnom	Pass	2.4316G	9.46	-20.54	2.30903G	-53.14	2.39568G	-50.07	2.4835G	-35.44	2.48384G	-36.32	24.21613G	-41.16	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.42234G	1.64	-28.36	2.30798G	-52.73	2.39788G	-32.71	2.4G	-33.10	2.50198G	-46.58	17.61278G	-41.38	1
2422MHz_TnomVnom	Pass	2.42234G	1.64	-28.36	2.19291G	-53.69	2.39788G	-28.74	2.4G	-32.67	2.48442G	-50.20	24.95793G	-41.44	2
2437MHz_TnomVnom	Pass	2.42234G	1.64	-28.36	2.1972G	-52.15	2.397G	-33.85	2.4G	-37.02	2.48382G	-41.06	15.1672G	-41.37	1
2437MHz_TnomVnom	Pass	2.42234G	1.64	-28.36	2.30139G	-52.92	2.39704G	-28.91	2.4G	-31.36	2.4845G	-37.28	15.29341G	-41.18	2
2452MHz_TnomVnom	Pass	2.42234G	1.64	-28.36	2.13222G	-52.12	2.397G	-51.47	2.4835G	-41.15	2.4851G	-39.87	21.99631G	-41.79	1
2452MHz_TnomVnom	Pass	2.42234G	1.64	-28.36	2.3097G	-52.89	2.39996G	-46.80	2.4835G	-36.49	2.4835G	-35.46	21.41016G	-40.61	2







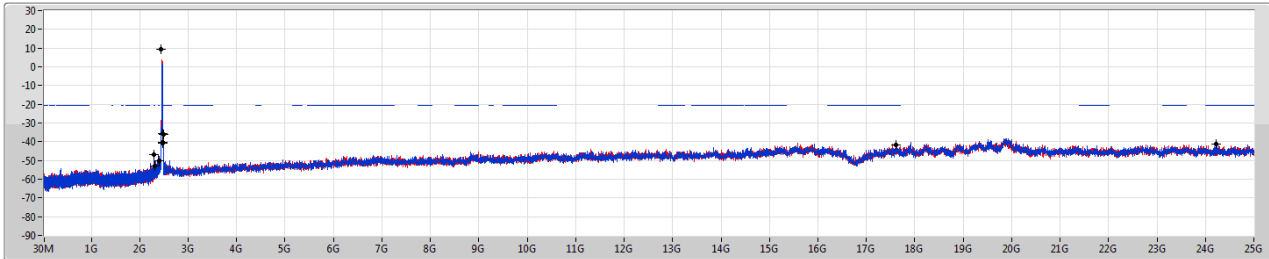




802.11n HT20\_Nss1,(MCS0)\_2TX  
2462MHz

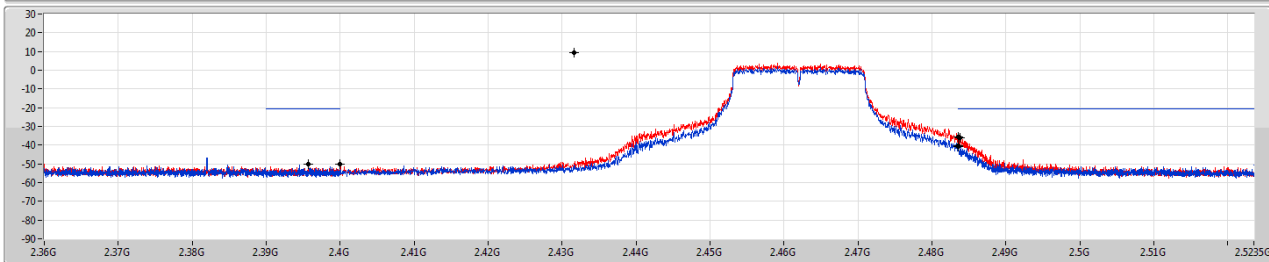
CSE NdB

11/03/2020



Port 1

Port 2



RBW (Hz)

VBW (Hz)

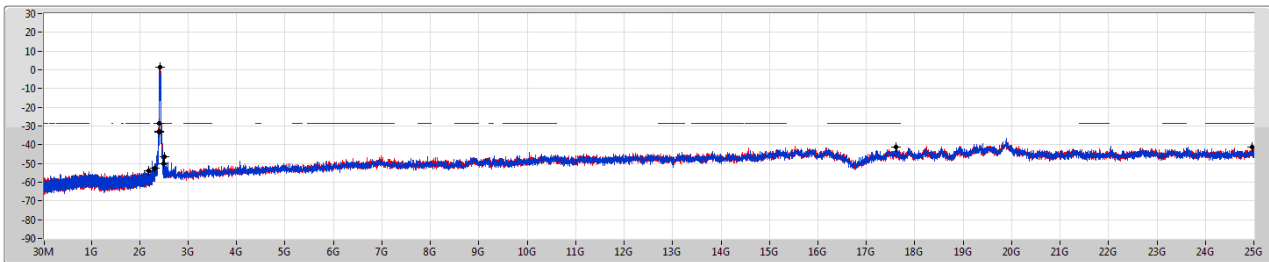
Detector

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
2.4316G	9.46	-20.54	2.30204G	-46.94	2.39998G	-50.14	2.4835G	-40.81	2.48352G	-40.38	17.60804G	-41.71	1
2.4316G	9.46	-20.54	2.30903G	-53.14	2.39568G	-50.07	2.4835G	-35.44	2.48384G	-36.32	24.21613G	-41.16	2

802.11n HT40\_Nss1,(MCS0)\_2TX  
2422MHz

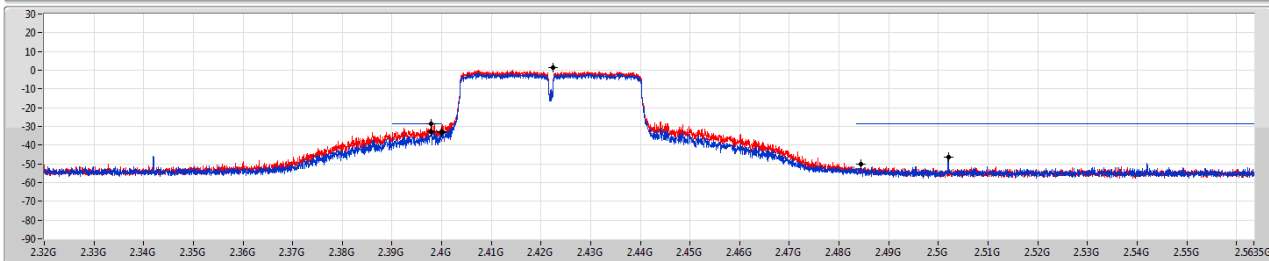
CSE NdB

11/03/2020



Port 1

Port 2

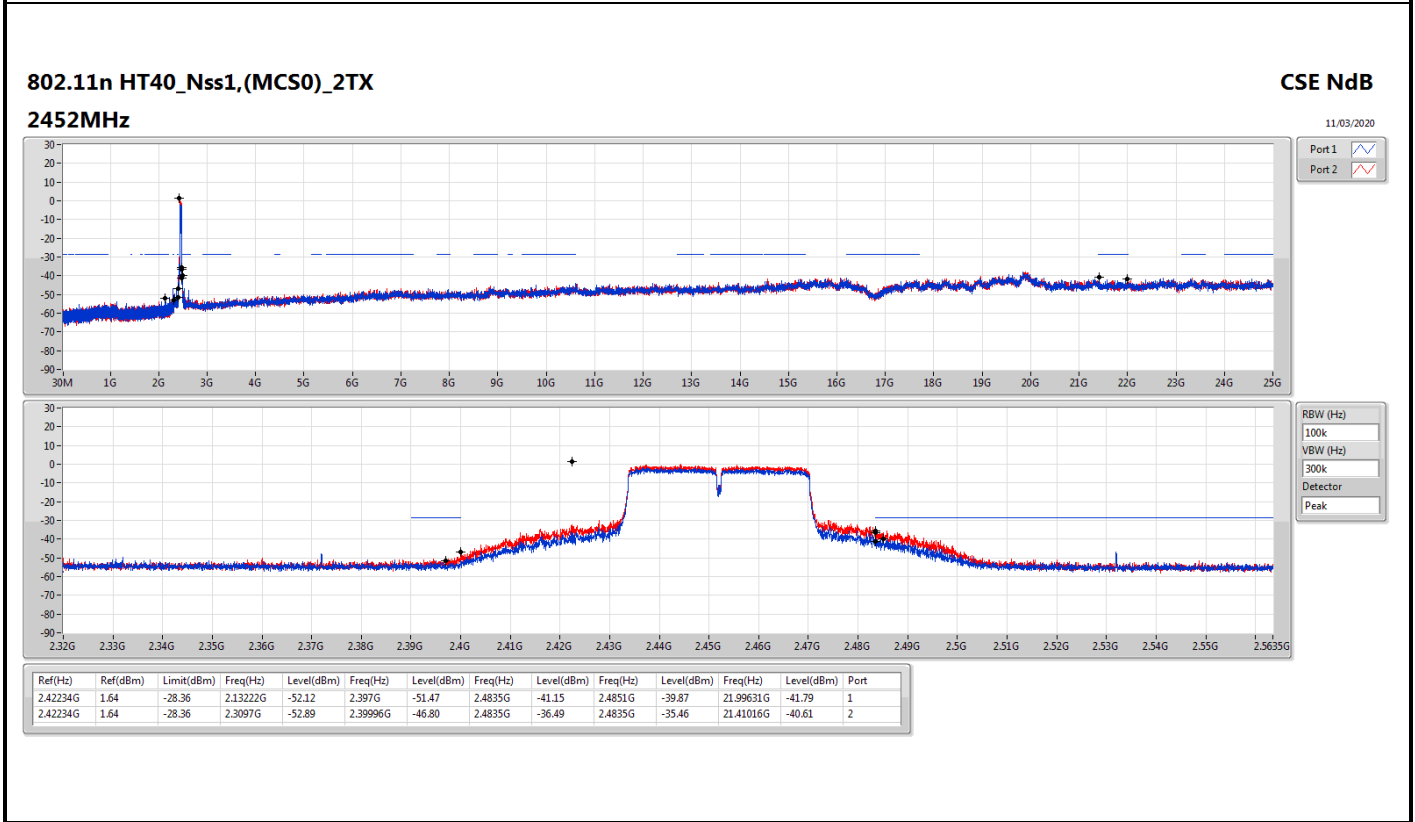
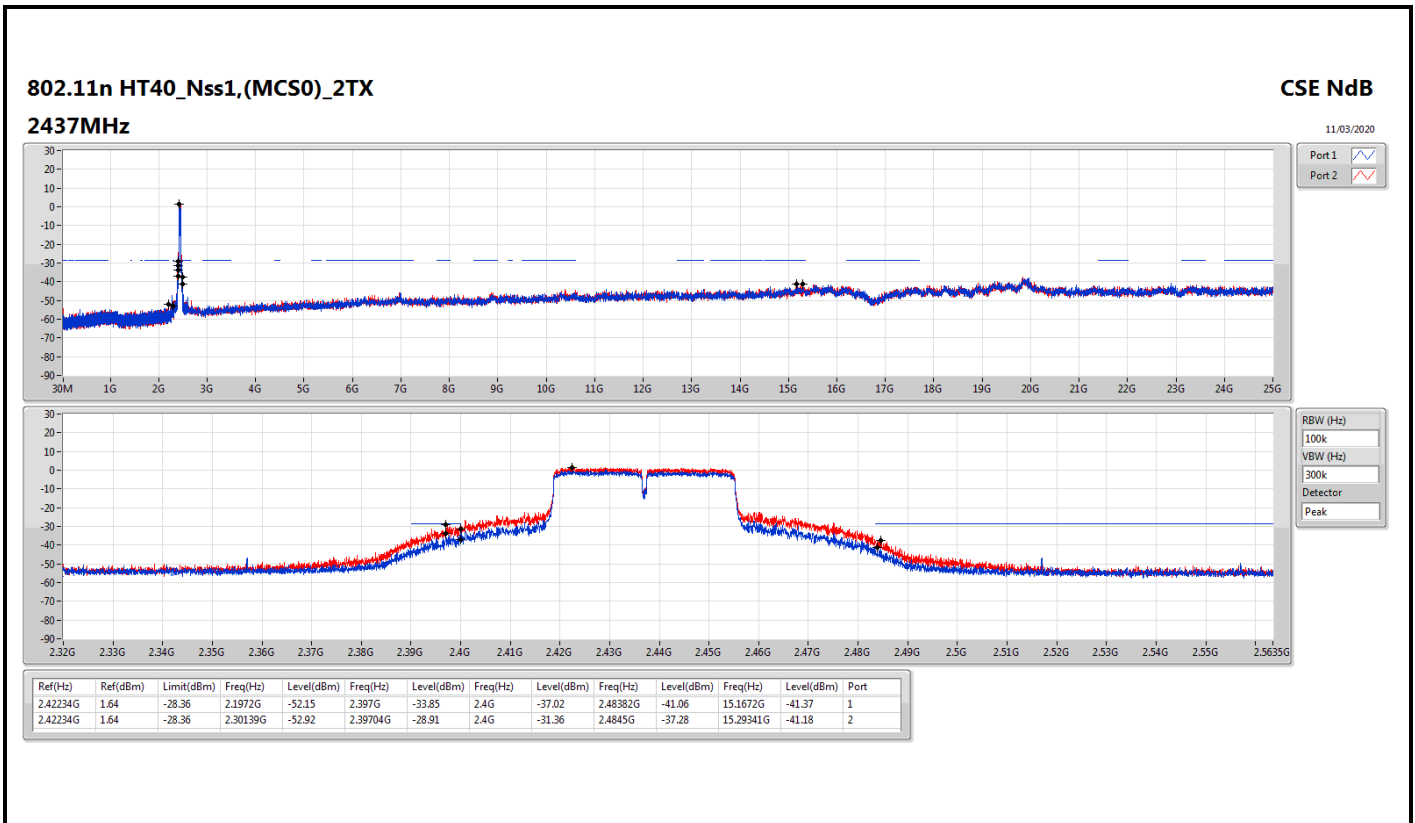


RBW (Hz)

VBW (Hz)

Detector

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
2.42234G	1.64	-28.36	2.30798G	-52.73	2.39788G	-32.71	2.4G	-33.10	2.50198G	-46.58	17.61278G	-41.38	1
2.42234G	1.64	-28.36	2.19291G	-53.69	2.39788G	-28.74	2.4G	-32.67	2.48442G	-50.20	24.95793G	-41.44	2





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	PK	262.8M	41.53	46.00	-4.47	3	Horizontal	360	1.00	-



Result

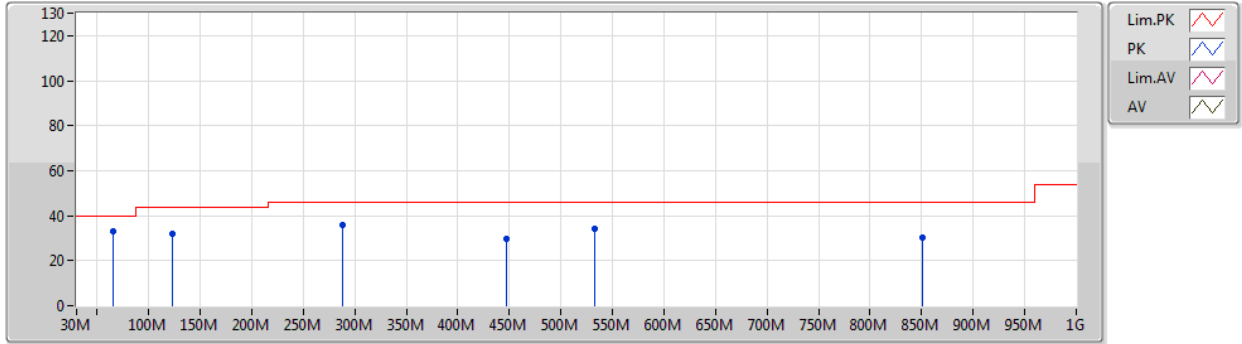
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT40_Nss1.(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	64.92M	33.08	40.00	-6.92	3	Vertical	0	1.00	-
2437MHz	Pass	PK	123.12M	32.02	43.50	-11.48	3	Vertical	0	1.00	-
2437MHz	Pass	PK	288.02M	35.87	46.00	-10.13	3	Vertical	0	1.00	-
2437MHz	Pass	PK	447.1M	29.76	46.00	-16.24	3	Vertical	0	1.00	-
2437MHz	Pass	PK	532.46M	34.27	46.00	-11.73	3	Vertical	0	1.00	-
2437MHz	Pass	PK	850.62M	30.06	46.00	-15.94	3	Vertical	0	1.00	-
2437MHz	Pass	PK	66.86M	28.38	40.00	-11.62	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	144.46M	37.76	43.50	-5.74	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	262.8M	41.53	46.00	-4.47	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	408.3M	31.16	46.00	-14.84	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	532.46M	30.79	46.00	-15.21	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	724.52M	31.48	46.00	-14.52	3	Horizontal	360	1.00	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2437MHz\_USB



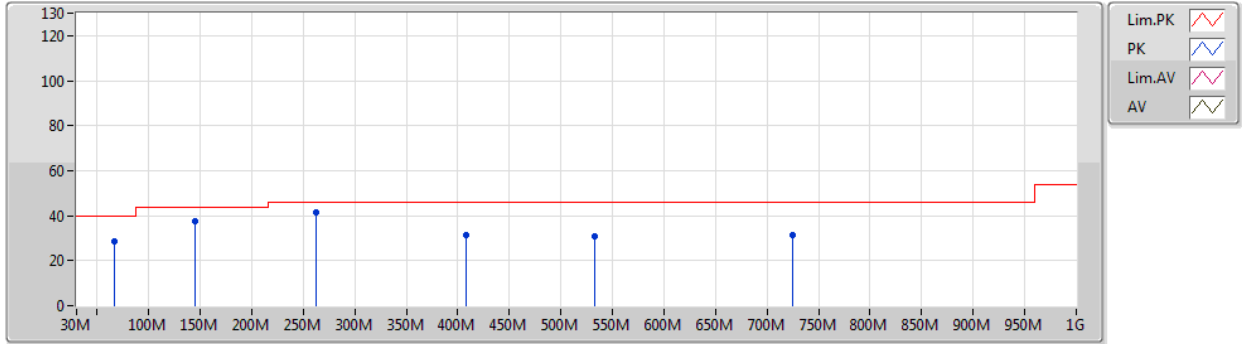
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	64.92M	33.08	40.00	-6.92	-15.00	3	Vertical	0	1.00	-	48.08	11.27	1.21	27.48
PK	123.12M	32.02	43.50	-11.48	-8.42	3	Vertical	0	1.00	-	40.44	17.18	1.70	27.30
PK	288.02M	35.87	46.00	-10.13	-5.93	3	Vertical	0	1.00	-	41.80	18.09	2.69	26.71
PK	447.1M	29.76	46.00	-16.24	-2.46	3	Vertical	0	1.00	-	32.22	21.84	3.38	27.68
PK	532.46M	34.27	46.00	-11.73	-1.27	3	Vertical	0	1.00	-	35.54	22.98	3.72	27.97
PK	850.62M	30.06	46.00	-15.94	2.45	3	Vertical	0	1.00	-	27.61	25.32	4.87	27.74



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2437MHz\_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	66.86M	28.38	40.00	-11.62	-14.92	3	Horizontal	360	1.00	-	43.30	11.32	1.23	27.47
PK	144.46M	37.76	43.50	-5.74	-9.48	3	Horizontal	360	1.00	-	47.24	15.88	1.85	27.21
PK	262.8M	41.53	46.00	-4.47	-5.67	3	Horizontal	360	1.00	-	47.20	18.51	2.55	26.73
PK	408.3M	31.16	46.00	-14.84	-2.77	3	Horizontal	360	1.00	-	33.93	21.38	3.21	27.36
PK	532.46M	30.79	46.00	-15.21	-1.27	3	Horizontal	360	1.00	-	32.06	22.98	3.72	27.97
PK	724.52M	31.48	46.00	-14.52	0.80	3	Horizontal	360	1.00	-	30.68	24.41	4.43	28.04



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)_2TX	Pass	AV	4.87399G	53.80	54.00	-0.20	3	Vertical	267	2.69	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.39G	53.94	54.00	-0.06	3	Vertical	229	1.50	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.83	54.00	-0.17	3	Vertical	163	1.15	-
802.11n HT40_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.86	54.00	-0.14	3	Vertical	162	1.24	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	44.24	54.00	-9.76	3	Vertical	231	1.50	-
2412MHz	Pass	AV	2.4112G	105.58	Inf	-Inf	3	Vertical	231	1.50	-
2412MHz	Pass	PK	2.3852G	57.76	74.00	-16.24	3	Vertical	231	1.50	-
2412MHz	Pass	PK	2.4112G	107.83	Inf	-Inf	3	Vertical	231	1.50	-
2412MHz	Pass	AV	2.386G	43.51	54.00	-10.49	3	Horizontal	54	1.03	-
2412MHz	Pass	AV	2.4138G	102.65	Inf	-Inf	3	Horizontal	54	1.03	-
2412MHz	Pass	PK	2.3884G	57.20	74.00	-16.80	3	Horizontal	54	1.03	-
2412MHz	Pass	PK	2.413G	104.86	Inf	-Inf	3	Horizontal	54	1.03	-
2412MHz	Pass	AV	4.82398G	53.69	54.00	-0.31	3	Vertical	151	1.15	-
2412MHz	Pass	PK	4.82388G	56.24	74.00	-17.76	3	Vertical	151	1.15	-
2412MHz	Pass	AV	4.824G	53.24	54.00	-0.76	3	Horizontal	194	1.50	-
2412MHz	Pass	PK	4.8239G	55.63	74.00	-18.37	3	Horizontal	194	1.50	-
2437MHz	Pass	AV	2.357G	44.57	54.00	-9.43	3	Vertical	230	1.44	-
2437MHz	Pass	AV	2.4362G	104.65	Inf	-Inf	3	Vertical	230	1.44	-
2437MHz	Pass	AV	2.4838G	43.69	54.00	-10.31	3	Vertical	230	1.44	-
2437MHz	Pass	PK	2.3518G	57.77	74.00	-16.23	3	Vertical	230	1.44	-
2437MHz	Pass	PK	2.4362G	106.81	Inf	-Inf	3	Vertical	230	1.44	-
2437MHz	Pass	PK	2.489G	57.26	74.00	-16.74	3	Vertical	230	1.44	-
2437MHz	Pass	AV	2.357G	43.42	54.00	-10.58	3	Horizontal	49	1.00	-
2437MHz	Pass	AV	2.4394G	101.46	Inf	-Inf	3	Horizontal	49	1.00	-
2437MHz	Pass	AV	2.4946G	43.77	54.00	-10.23	3	Horizontal	49	1.00	-
2437MHz	Pass	PK	2.3494G	57.39	74.00	-16.61	3	Horizontal	49	1.00	-
2437MHz	Pass	PK	2.4398G	103.92	Inf	-Inf	3	Horizontal	49	1.00	-
2437MHz	Pass	PK	2.4958G	57.91	74.00	-16.09	3	Horizontal	49	1.00	-
2437MHz	Pass	AV	4.87399G	53.80	54.00	-0.20	3	Vertical	267	2.69	-
2437MHz	Pass	PK	4.87397G	56.79	74.00	-17.21	3	Vertical	267	2.69	-
2437MHz	Pass	AV	4.87399G	52.23	54.00	-1.77	3	Horizontal	197	1.13	-
2437MHz	Pass	PK	4.87403G	55.33	74.00	-18.67	3	Horizontal	197	1.13	-
2462MHz	Pass	AV	2.4638G	106.92	Inf	-Inf	3	Vertical	122	2.43	-
2462MHz	Pass	AV	2.4836G	46.12	54.00	-7.88	3	Vertical	122	2.43	-
2462MHz	Pass	PK	2.4648G	108.98	Inf	-Inf	3	Vertical	122	2.43	-
2462MHz	Pass	PK	2.485G	58.02	74.00	-15.98	3	Vertical	122	2.43	-
2462MHz	Pass	AV	2.4602G	102.10	Inf	-Inf	3	Horizontal	202	1.50	-
2462MHz	Pass	AV	2.487G	44.57	54.00	-9.43	3	Horizontal	202	1.50	-
2462MHz	Pass	PK	2.4592G	104.49	Inf	-Inf	3	Horizontal	202	1.50	-
2462MHz	Pass	PK	2.4932G	57.15	74.00	-16.85	3	Horizontal	202	1.50	-
2462MHz	Pass	AV	4.924G	53.71	54.00	-0.29	3	Vertical	290	2.52	-
2462MHz	Pass	PK	4.92398G	56.70	74.00	-17.30	3	Vertical	290	2.52	-
2462MHz	Pass	AV	4.92399G	52.36	54.00	-1.64	3	Horizontal	51	1.00	-
2462MHz	Pass	PK	4.92394G	55.72	74.00	-18.28	3	Horizontal	51	1.00	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.94	54.00	-0.06	3	Vertical	229	1.50	-
2412MHz	Pass	AV	2.4058G	102.67	Inf	-Inf	3	Vertical	229	1.50	-
2412MHz	Pass	PK	2.3894G	72.20	74.00	-1.80	3	Vertical	229	1.50	-
2412MHz	Pass	PK	2.4046G	111.90	Inf	-Inf	3	Vertical	229	1.50	-
2412MHz	Pass	AV	2.39G	52.16	54.00	-1.84	3	Horizontal	54	1.31	-
2412MHz	Pass	AV	2.4162G	100.37	Inf	-Inf	3	Horizontal	54	1.31	-

Remark :

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA( Preamp Factor)





Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	2.39G	69.13	74.00	-4.87	3	Horizontal	54	1.31	-
2412MHz	Pass	PK	2.4152G	109.65	Inf	-Inf	3	Horizontal	54	1.31	-
2412MHz	Pass	AV	4.82272G	42.95	54.00	-11.05	3	Vertical	273	2.86	-
2412MHz	Pass	PK	4.82032G	56.48	74.00	-17.52	3	Vertical	273	2.86	-
2412MHz	Pass	AV	4.81752G	44.74	54.00	-9.26	3	Horizontal	56	1.00	-
2412MHz	Pass	PK	4.82032G	58.13	74.00	-15.87	3	Horizontal	56	1.00	-
2417MHz	Pass	AV	2.3896G	53.22	54.00	-0.78	3	Vertical	229	1.50	-
2417MHz	Pass	AV	2.4108G	105.03	Inf	-Inf	3	Vertical	229	1.50	-
2417MHz	Pass	PK	2.3898G	72.13	74.00	-1.87	3	Vertical	229	1.50	-
2417MHz	Pass	PK	2.4106G	114.40	Inf	-Inf	3	Vertical	229	1.50	-
2417MHz	Pass	AV	2.3896G	50.68	54.00	-3.32	3	Horizontal	198	1.50	-
2417MHz	Pass	AV	2.4108G	101.10	Inf	-Inf	3	Horizontal	198	1.50	-
2417MHz	Pass	PK	2.3898G	69.47	74.00	-4.53	3	Horizontal	198	1.50	-
2417MHz	Pass	PK	2.4106G	110.05	Inf	-Inf	3	Horizontal	198	1.50	-
2437MHz	Pass	AV	2.3898G	47.04	54.00	-6.96	3	Vertical	131	3.00	-
2437MHz	Pass	AV	2.4402G	106.89	Inf	-Inf	3	Vertical	131	3.00	-
2437MHz	Pass	AV	2.4835G	48.38	54.00	-5.62	3	Vertical	131	3.00	-
2437MHz	Pass	PK	2.3858G	61.23	74.00	-12.77	3	Vertical	131	3.00	-
2437MHz	Pass	PK	2.4402G	116.82	Inf	-Inf	3	Vertical	131	3.00	-
2437MHz	Pass	PK	2.4842G	64.05	74.00	-9.95	3	Vertical	131	3.00	-
2437MHz	Pass	AV	2.3898G	45.15	54.00	-8.85	3	Horizontal	58	2.81	-
2437MHz	Pass	AV	2.4402G	104.45	Inf	-Inf	3	Horizontal	58	2.81	-
2437MHz	Pass	AV	2.4835G	45.46	54.00	-8.54	3	Horizontal	58	2.81	-
2437MHz	Pass	PK	2.3898G	58.57	74.00	-15.43	3	Horizontal	58	2.81	-
2437MHz	Pass	PK	2.4402G	114.09	Inf	-Inf	3	Horizontal	58	2.81	-
2437MHz	Pass	PK	2.4894G	58.83	74.00	-15.17	3	Horizontal	58	2.81	-
2437MHz	Pass	AV	4.86336G	49.02	54.00	-4.98	3	Vertical	268	2.30	-
2437MHz	Pass	PK	4.86352G	62.27	74.00	-11.73	3	Vertical	268	2.30	-
2437MHz	Pass	AV	4.86336G	50.08	54.00	-3.92	3	Horizontal	56	1.03	-
2437MHz	Pass	PK	4.86328G	63.36	74.00	-10.64	3	Horizontal	56	1.03	-
2457MHz	Pass	AV	2.4506G	102.72	Inf	-Inf	3	Vertical	229	1.50	-
2457MHz	Pass	AV	2.4872G	51.23	54.00	-2.77	3	Vertical	229	1.50	-
2457MHz	Pass	PK	2.4496G	111.80	Inf	-Inf	3	Vertical	229	1.50	-
2457MHz	Pass	PK	2.4894G	70.14	74.00	-3.86	3	Vertical	229	1.50	-
2457MHz	Pass	AV	2.46G	102.41	Inf	-Inf	3	Horizontal	44	1.50	-
2457MHz	Pass	AV	2.4835G	53.51	54.00	-0.49	3	Horizontal	44	1.50	-
2457MHz	Pass	PK	2.4602G	111.90	Inf	-Inf	3	Horizontal	44	1.50	-
2457MHz	Pass	PK	2.4898G	68.45	74.00	-5.55	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	2.4652G	100.34	Inf	-Inf	3	Vertical	136	2.99	-
2462MHz	Pass	AV	2.4835G	53.38	54.00	-0.62	3	Vertical	136	2.99	-
2462MHz	Pass	PK	2.4654G	109.82	Inf	-Inf	3	Vertical	136	2.99	-
2462MHz	Pass	PK	2.4835G	70.56	74.00	-3.44	3	Vertical	136	2.99	-
2462MHz	Pass	AV	2.464G	97.22	Inf	-Inf	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	2.4835G	51.93	54.00	-2.07	3	Horizontal	44	1.50	-
2462MHz	Pass	PK	2.4646G	106.37	Inf	-Inf	3	Horizontal	44	1.50	-
2462MHz	Pass	PK	2.4835G	68.52	74.00	-5.48	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	4.92168G	39.72	54.00	-14.28	3	Vertical	260	2.37	-
2462MHz	Pass	PK	4.92024G	53.34	74.00	-20.66	3	Vertical	260	2.37	-
2462MHz	Pass	AV	4.9176G	37.68	54.00	-16.32	3	Horizontal	51	1.50	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.91728G	51.14	74.00	-22.86	3	Horizontal	51	1.50	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.58	54.00	-2.42	3	Vertical	285	1.46	-
2412MHz	Pass	AV	2.4064G	100.50	Inf	-Inf	3	Vertical	285	1.46	-
2412MHz	Pass	PK	2.39G	73.67	74.00	-0.33	3	Vertical	285	1.46	-
2412MHz	Pass	PK	2.409G	110.35	Inf	-Inf	3	Vertical	285	1.46	-
2412MHz	Pass	AV	2.39G	51.27	54.00	-2.73	3	Horizontal	188	1.28	-
2412MHz	Pass	AV	2.4064G	98.23	Inf	-Inf	3	Horizontal	188	1.28	-
2412MHz	Pass	PK	2.39G	72.38	74.00	-1.62	3	Horizontal	188	1.28	-
2412MHz	Pass	PK	2.409G	108.17	Inf	-Inf	3	Horizontal	188	1.28	-
2412MHz	Pass	AV	4.82392G	39.54	54.00	-14.46	3	Vertical	271	2.15	-
2412MHz	Pass	PK	4.82336G	54.33	74.00	-19.67	3	Vertical	271	2.15	-
2412MHz	Pass	AV	4.824G	41.75	54.00	-12.25	3	Horizontal	53	1.01	-
2412MHz	Pass	PK	4.8232G	56.13	74.00	-17.87	3	Horizontal	53	1.01	-
2417MHz	Pass	AV	2.3898G	53.33	54.00	-0.67	3	Vertical	161	1.17	-
2417MHz	Pass	AV	2.4224G	103.39	Inf	-Inf	3	Vertical	161	1.17	-
2417MHz	Pass	PK	2.39G	72.06	74.00	-1.94	3	Vertical	161	1.17	-
2417MHz	Pass	PK	2.4138G	112.82	Inf	-Inf	3	Vertical	161	1.17	-
2417MHz	Pass	AV	2.39G	53.30	54.00	-0.70	3	Horizontal	56	2.87	-
2417MHz	Pass	AV	2.4224G	103.36	Inf	-Inf	3	Horizontal	56	2.87	-
2417MHz	Pass	PK	2.3898G	71.28	74.00	-2.72	3	Horizontal	56	2.87	-
2417MHz	Pass	PK	2.4204G	112.70	Inf	-Inf	3	Horizontal	56	2.87	-
2437MHz	Pass	AV	2.3898G	49.60	54.00	-4.40	3	Vertical	232	1.40	-
2437MHz	Pass	AV	2.4314G	104.96	Inf	-Inf	3	Vertical	232	1.40	-
2437MHz	Pass	AV	2.4835G	48.59	54.00	-5.41	3	Vertical	232	1.40	-
2437MHz	Pass	PK	2.3898G	67.93	74.00	-6.07	3	Vertical	232	1.40	-
2437MHz	Pass	PK	2.4322G	114.44	Inf	-Inf	3	Vertical	232	1.40	-
2437MHz	Pass	PK	2.4854G	67.30	74.00	-6.70	3	Vertical	232	1.40	-
2437MHz	Pass	AV	2.3898G	48.53	54.00	-5.47	3	Horizontal	198	1.50	-
2437MHz	Pass	AV	2.4314G	101.67	Inf	-Inf	3	Horizontal	198	1.50	-
2437MHz	Pass	AV	2.4835G	46.44	54.00	-7.56	3	Horizontal	198	1.50	-
2437MHz	Pass	PK	2.3894G	66.18	74.00	-7.82	3	Horizontal	198	1.50	-
2437MHz	Pass	PK	2.4338G	111.04	Inf	-Inf	3	Horizontal	198	1.50	-
2437MHz	Pass	PK	2.4835G	62.66	74.00	-11.34	3	Horizontal	198	1.50	-
2437MHz	Pass	AV	4.87416G	49.84	54.00	-4.16	3	Vertical	262	2.69	-
2437MHz	Pass	PK	4.87312G	65.00	74.00	-9.00	3	Vertical	262	2.69	-
2437MHz	Pass	AV	4.874G	53.28	54.00	-0.72	3	Horizontal	54	1.07	-
2437MHz	Pass	PK	4.8732G	68.26	74.00	-5.74	3	Horizontal	54	1.07	-
2457MHz	Pass	AV	2.4624G	104.13	Inf	-Inf	3	Vertical	160	1.16	-
2457MHz	Pass	AV	2.4835G	53.34	54.00	-0.66	3	Vertical	160	1.16	-
2457MHz	Pass	PK	2.4612G	113.48	Inf	-Inf	3	Vertical	160	1.16	-
2457MHz	Pass	PK	2.4844G	72.66	74.00	-1.34	3	Vertical	160	1.16	-
2457MHz	Pass	AV	2.4516G	102.19	Inf	-Inf	3	Horizontal	41	1.50	-
2457MHz	Pass	AV	2.4835G	53.68	54.00	-0.32	3	Horizontal	41	1.50	-
2457MHz	Pass	PK	2.4538G	111.67	Inf	-Inf	3	Horizontal	41	1.50	-
2457MHz	Pass	PK	2.4846G	72.70	74.00	-1.30	3	Horizontal	41	1.50	-
2462MHz	Pass	AV	2.465G	100.04	Inf	-Inf	3	Vertical	163	1.15	-
2462MHz	Pass	AV	2.4835G	53.83	54.00	-0.17	3	Vertical	163	1.15	-
2462MHz	Pass	PK	2.459G	109.97	Inf	-Inf	3	Vertical	163	1.15	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4835G	72.66	74.00	-1.34	3	Vertical	163	1.15	-
2462MHz	Pass	AV	2.4674G	96.38	Inf	-Inf	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	2.4835G	52.07	54.00	-1.93	3	Horizontal	44	1.50	-
2462MHz	Pass	PK	2.4588G	105.82	Inf	-Inf	3	Horizontal	44	1.50	-
2462MHz	Pass	PK	2.4835G	70.23	74.00	-3.77	3	Horizontal	44	1.50	-
2462MHz	Pass	AV	4.92392G	41.61	54.00	-12.39	3	Vertical	269	2.37	-
2462MHz	Pass	PK	4.92304G	56.36	74.00	-17.64	3	Vertical	269	2.37	-
2462MHz	Pass	AV	4.924G	41.30	54.00	-12.70	3	Horizontal	56	1.00	-
2462MHz	Pass	PK	4.92304G	55.98	74.00	-18.02	3	Horizontal	56	1.00	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.39G	52.65	54.00	-1.35	3	Vertical	166	1.00	-
2422MHz	Pass	AV	2.4084G	94.97	Inf	-Inf	3	Vertical	166	1.00	-
2422MHz	Pass	AV	2.4844G	44.49	54.00	-9.51	3	Vertical	166	1.00	-
2422MHz	Pass	PK	2.3888G	70.62	74.00	-3.38	3	Vertical	166	1.00	-
2422MHz	Pass	PK	2.4072G	105.52	Inf	-Inf	3	Vertical	166	1.00	-
2422MHz	Pass	PK	2.4835G	57.73	74.00	-16.27	3	Vertical	166	1.00	-
2422MHz	Pass	AV	2.39G	47.86	54.00	-6.14	3	Horizontal	40	1.49	-
2422MHz	Pass	AV	2.4352G	92.89	Inf	-Inf	3	Horizontal	40	1.49	-
2422MHz	Pass	AV	2.4848G	44.35	54.00	-9.65	3	Horizontal	40	1.49	-
2422MHz	Pass	PK	2.3892G	63.68	74.00	-10.32	3	Horizontal	40	1.49	-
2422MHz	Pass	PK	2.438G	103.49	Inf	-Inf	3	Horizontal	40	1.49	-
2422MHz	Pass	PK	2.4972G	57.36	74.00	-16.64	3	Horizontal	40	1.49	-
2422MHz	Pass	AV	4.844G	40.72	54.00	-13.28	3	Vertical	257	2.44	-
2422MHz	Pass	PK	4.8445G	53.09	74.00	-20.91	3	Vertical	257	2.44	-
2422MHz	Pass	AV	4.84404G	42.96	54.00	-11.04	3	Horizontal	55	1.00	-
2422MHz	Pass	PK	4.84456G	55.92	74.00	-18.08	3	Horizontal	55	1.00	-
2427MHz	Pass	AV	2.3898G	53.59	54.00	-0.41	3	Vertical	161	1.19	-
2427MHz	Pass	AV	2.4422G	96.08	Inf	-Inf	3	Vertical	161	1.19	-
2427MHz	Pass	AV	2.4835G	45.57	54.00	-8.43	3	Vertical	161	1.19	-
2427MHz	Pass	PK	2.3886G	69.23	74.00	-4.77	3	Vertical	161	1.19	-
2427MHz	Pass	PK	2.443G	106.47	Inf	-Inf	3	Vertical	161	1.19	-
2427MHz	Pass	PK	2.4982G	58.24	74.00	-15.76	3	Vertical	161	1.19	-
2427MHz	Pass	AV	2.3898G	47.87	54.00	-6.13	3	Horizontal	37	1.50	-
2427MHz	Pass	AV	2.4422G	93.43	Inf	-Inf	3	Horizontal	37	1.50	-
2427MHz	Pass	AV	2.4838G	44.76	54.00	-9.24	3	Horizontal	37	1.50	-
2427MHz	Pass	PK	2.3886G	62.28	74.00	-11.72	3	Horizontal	37	1.50	-
2427MHz	Pass	PK	2.443G	103.75	Inf	-Inf	3	Horizontal	37	1.50	-
2427MHz	Pass	PK	2.4906G	58.91	74.00	-15.09	3	Horizontal	37	1.50	-
2437MHz	Pass	AV	2.3898G	52.45	54.00	-1.55	3	Vertical	162	1.24	-
2437MHz	Pass	AV	2.4502G	98.39	Inf	-Inf	3	Vertical	162	1.24	-
2437MHz	Pass	AV	2.4835G	53.86	54.00	-0.14	3	Vertical	162	1.24	-
2437MHz	Pass	PK	2.3894G	69.40	74.00	-4.60	3	Vertical	162	1.24	-
2437MHz	Pass	PK	2.4438G	108.74	Inf	-Inf	3	Vertical	162	1.24	-
2437MHz	Pass	PK	2.4835G	69.65	74.00	-4.35	3	Vertical	162	1.24	-
2437MHz	Pass	AV	2.3898G	46.21	54.00	-7.79	3	Horizontal	42	1.49	-
2437MHz	Pass	AV	2.4502G	95.26	Inf	-Inf	3	Horizontal	42	1.49	-
2437MHz	Pass	AV	2.4835G	52.39	54.00	-1.61	3	Horizontal	42	1.49	-
2437MHz	Pass	PK	2.3894G	61.46	74.00	-12.54	3	Horizontal	42	1.49	-
2437MHz	Pass	PK	2.453G	105.50	Inf	-Inf	3	Horizontal	42	1.49	-



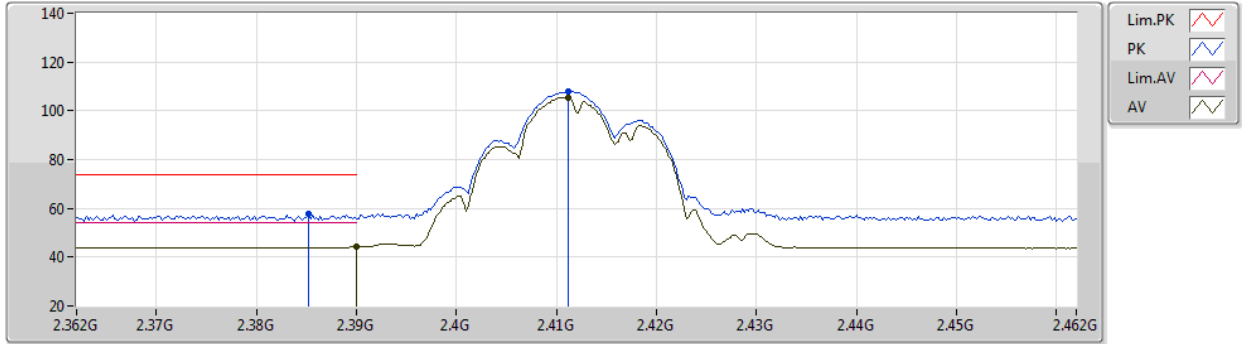
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4835G	67.78	74.00	-6.22	3	Horizontal	42	1.49	-
2437MHz	Pass	AV	4.87408G	42.30	54.00	-11.70	3	Vertical	259	2.71	-
2437MHz	Pass	PK	4.87368G	55.30	74.00	-18.70	3	Vertical	259	2.71	-
2437MHz	Pass	AV	4.87404G	43.38	54.00	-10.62	3	Horizontal	55	1.00	-
2437MHz	Pass	PK	4.87308G	55.57	74.00	-18.43	3	Horizontal	55	1.00	-
2447MHz	Pass	AV	2.367G	44.54	54.00	-9.46	3	Vertical	161	1.17	-
2447MHz	Pass	AV	2.4626G	96.39	Inf	-Inf	3	Vertical	161	1.17	-
2447MHz	Pass	AV	2.4835G	53.54	54.00	-0.46	3	Vertical	161	1.17	-
2447MHz	Pass	PK	2.3674G	56.99	74.00	-17.01	3	Vertical	161	1.17	-
2447MHz	Pass	PK	2.4626G	106.76	Inf	-Inf	3	Vertical	161	1.17	-
2447MHz	Pass	PK	2.4835G	71.11	74.00	-2.89	3	Vertical	161	1.17	-
2447MHz	Pass	AV	2.3598G	43.86	54.00	-10.14	3	Horizontal	40	1.50	-
2447MHz	Pass	AV	2.4486G	93.70	Inf	-Inf	3	Horizontal	40	1.50	-
2447MHz	Pass	AV	2.4835G	51.76	54.00	-2.24	3	Horizontal	40	1.50	-
2447MHz	Pass	PK	2.3738G	56.80	74.00	-17.20	3	Horizontal	40	1.50	-
2447MHz	Pass	PK	2.463G	103.82	Inf	-Inf	3	Horizontal	40	1.50	-
2447MHz	Pass	PK	2.4835G	68.31	74.00	-5.69	3	Horizontal	40	1.50	-
2452MHz	Pass	AV	2.372G	44.40	54.00	-9.60	3	Vertical	160	1.15	-
2452MHz	Pass	AV	2.4648G	95.46	Inf	-Inf	3	Vertical	160	1.15	-
2452MHz	Pass	AV	2.4835G	53.86	54.00	-0.14	3	Vertical	160	1.15	-
2452MHz	Pass	PK	2.372G	57.92	74.00	-16.08	3	Vertical	160	1.15	-
2452MHz	Pass	PK	2.468G	105.92	Inf	-Inf	3	Vertical	160	1.15	-
2452MHz	Pass	PK	2.4835G	67.93	74.00	-6.07	3	Vertical	160	1.15	-
2452MHz	Pass	AV	2.372G	43.52	54.00	-10.48	3	Horizontal	42	1.50	-
2452MHz	Pass	AV	2.4652G	93.03	Inf	-Inf	3	Horizontal	42	1.50	-
2452MHz	Pass	AV	2.4835G	52.64	54.00	-1.36	3	Horizontal	42	1.50	-
2452MHz	Pass	PK	2.3716G	57.87	74.00	-16.13	3	Horizontal	42	1.50	-
2452MHz	Pass	PK	2.4676G	103.16	Inf	-Inf	3	Horizontal	42	1.50	-
2452MHz	Pass	PK	2.4856G	66.95	74.00	-7.05	3	Horizontal	42	1.50	-
2452MHz	Pass	AV	4.90404G	40.35	54.00	-13.65	3	Vertical	259	2.55	-
2452MHz	Pass	PK	4.90372G	52.75	74.00	-21.25	3	Vertical	259	2.55	-
2452MHz	Pass	AV	4.90408G	40.93	54.00	-13.07	3	Horizontal	55	1.04	-
2452MHz	Pass	PK	4.9038G	53.63	74.00	-20.37	3	Horizontal	55	1.04	-



802.11b\_Nss1,(1Mbps)\_2TX

10/03/2020

2412MHz\_TX



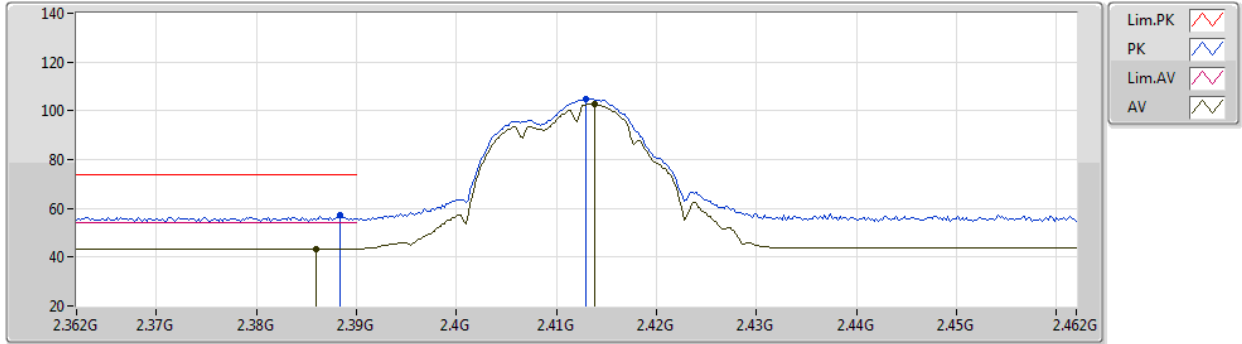
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AV	2.39G	44.24	54.00	-9.76	31.63	3	Vertical	231	1.50	-	12.61	27.64	3.99	-
AV	2.4112G	105.58	Inf	-Inf	31.60	3	Vertical	231	1.50	-	73.98	27.59	4.01	-
PK	2.3852G	57.76	74.00	-16.24	31.65	3	Vertical	231	1.50	-	26.11	27.66	3.99	-
PK	2.4112G	107.83	Inf	-Inf	31.60	3	Vertical	231	1.50	-	76.23	27.59	4.01	-



802.11b\_Nss1,(1Mbps)\_2TX

10/03/2020

2412MHz\_TX



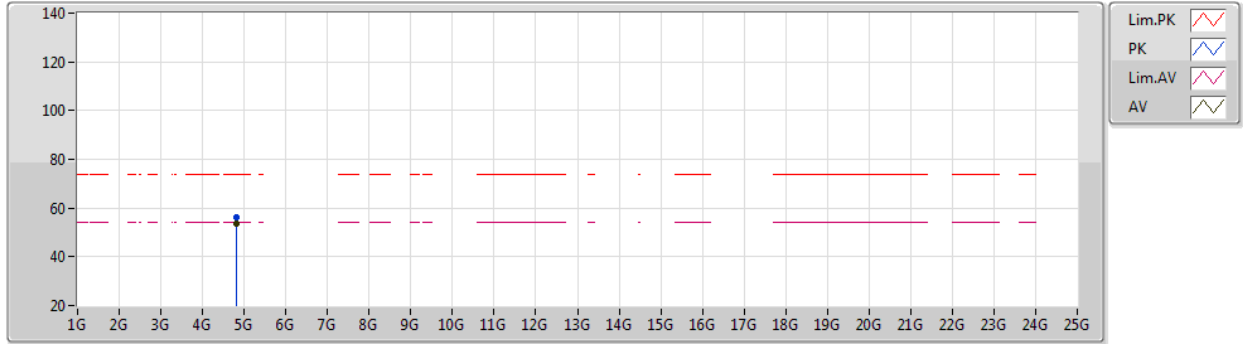
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.386G	43.51	54.00	-10.49	31.65	3	Horizontal	54	1.03	-	11.86	27.66	3.99	-
AV	2.4138G	102.65	Inf	-Inf	31.60	3	Horizontal	54	1.03	-	71.05	27.59	4.01	-
PK	2.3884G	57.20	74.00	-16.80	31.64	3	Horizontal	54	1.03	-	25.56	27.65	3.99	-
PK	2.413G	104.86	Inf	-Inf	31.60	3	Horizontal	54	1.03	-	73.26	27.59	4.01	-



802.11b\_Nss1,(1Mbps)\_2TX

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2412MHz\_TX



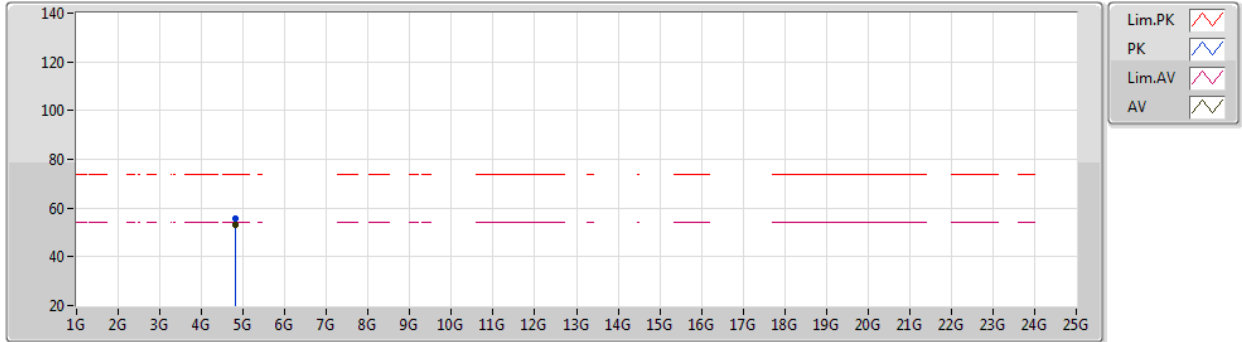
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AV	4.82398G	53.69	54.00	-0.31	3.71	3	Vertical	151	1.15	-	49.98	31.10	6.66	34.05
PK	4.82388G	56.24	74.00	-17.76	3.71	3	Vertical	151	1.15	-	52.53	31.10	6.66	34.05



802.11b\_Nss1,(1Mbps)\_2TX

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2412MHz\_TX



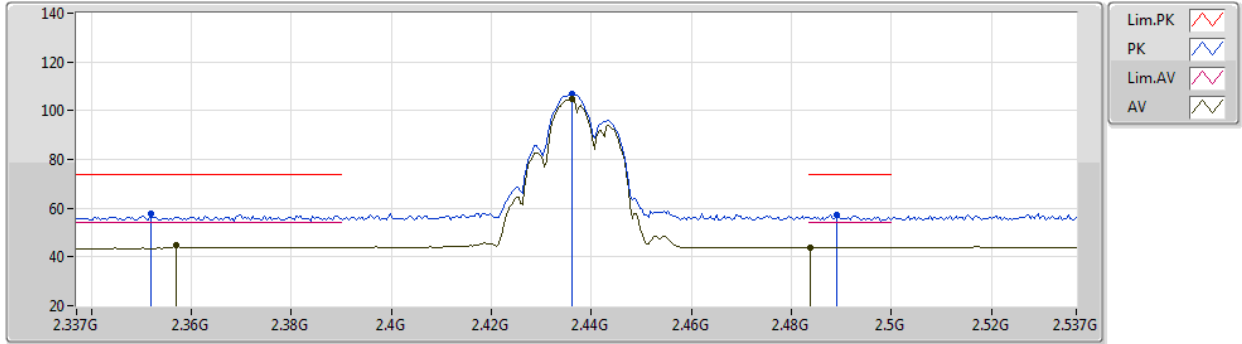
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AV	4.824G	53.24	54.00	-0.76	3.71	3	Horizontal	194	1.50	-	49.53	31.10	6.66	34.05
PK	4.8239G	55.63	74.00	-18.37	3.71	3	Horizontal	194	1.50	-	51.92	31.10	6.66	34.05



802.11b\_Nss1,(1Mbps)\_2TX

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2437MHz\_TX



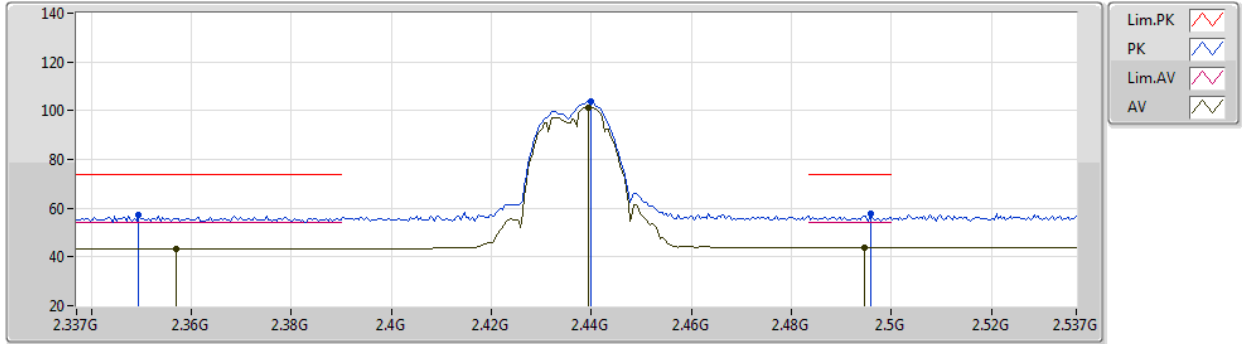
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AV	2.357G	44.57	54.00	-9.43	31.73	3	Vertical	230	1.44	-	12.84	27.77	3.96	-
AV	2.4362G	104.65	Inf	-Inf	31.60	3	Vertical	230	1.44	-	73.05	27.56	4.04	-
AV	2.4838G	43.69	54.00	-10.31	31.61	3	Vertical	230	1.44	-	12.08	27.52	4.09	-
PK	2.3518G	57.77	74.00	-16.23	31.75	3	Vertical	230	1.44	-	26.02	27.79	3.96	-
PK	2.4362G	106.81	Inf	-Inf	31.60	3	Vertical	230	1.44	-	75.21	27.56	4.04	-
PK	2.489G	57.26	74.00	-16.74	31.60	3	Vertical	230	1.44	-	25.66	27.51	4.09	-



802.11b\_Nss1,(1Mbps)\_2TX

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2437MHz\_TX



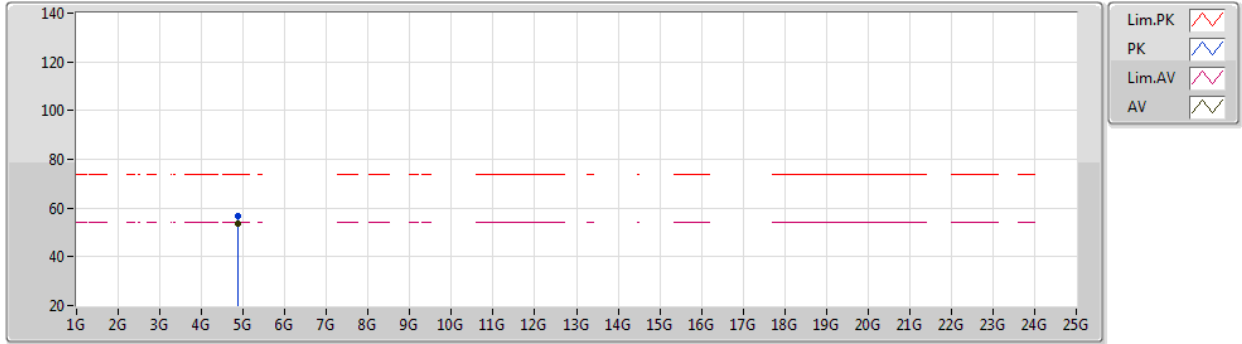
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AV	2.357G	43.42	54.00	-10.58	31.73	3	Horizontal	49	1.00	-	11.69	27.77	3.96	-
AV	2.4394G	101.46	Inf	-Inf	31.60	3	Horizontal	49	1.00	-	69.86	27.56	4.04	-
AV	2.4946G	43.77	54.00	-10.23	31.61	3	Horizontal	49	1.00	-	12.16	27.51	4.10	-
PK	2.3494G	57.39	74.00	-16.61	31.76	3	Horizontal	49	1.00	-	25.63	27.80	3.96	-
PK	2.4398G	103.92	Inf	-Inf	31.60	3	Horizontal	49	1.00	-	72.32	27.56	4.04	-
PK	2.4958G	57.91	74.00	-16.09	31.60	3	Horizontal	49	1.00	-	26.31	27.50	4.10	-



802.11b\_Nss1,(1Mbps)\_2TX

10/03/2020

2437MHz\_TX



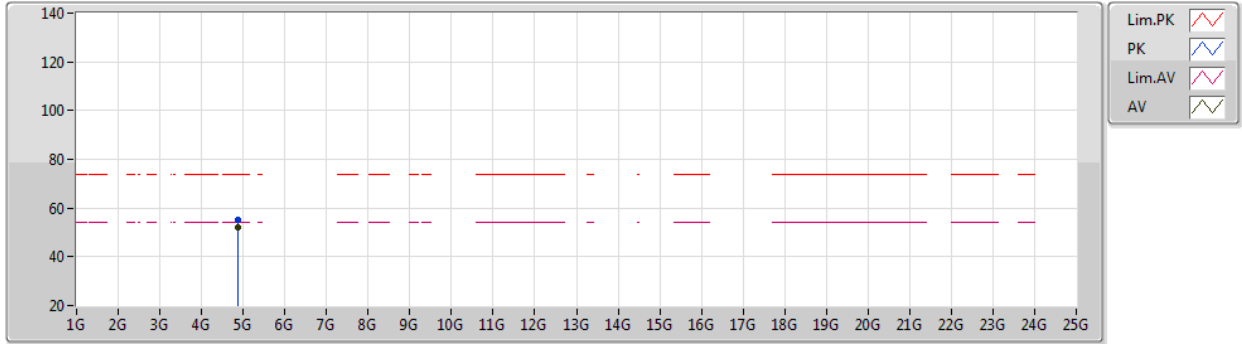
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87399G	53.80	54.00	-0.20	3.75	3	Vertical	267	2.69	-	50.05	31.10	6.70	34.05
PK	4.87397G	56.79	74.00	-17.21	3.75	3	Vertical	267	2.69	-	53.04	31.10	6.70	34.05



802.11b\_Nss1,(1Mbps)\_2TX

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2437MHz\_TX



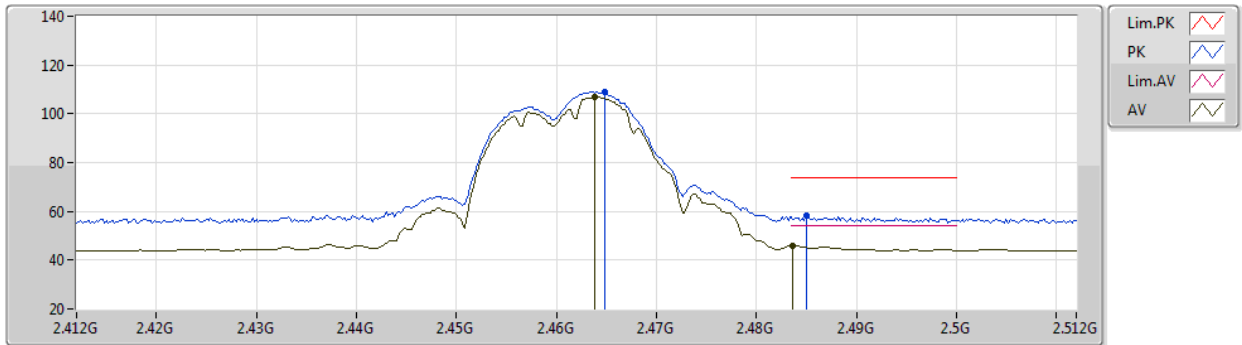
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AV	4.87399G	52.23	54.00	-1.77	3.75	3	Horizontal	197	1.13	-	48.48	31.10	6.70	34.05
PK	4.87403G	55.33	74.00	-18.67	3.75	3	Horizontal	197	1.13	-	51.58	31.10	6.70	34.05



802.11b\_Nss1,(1Mbps)\_2TX

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2462MHz\_TX

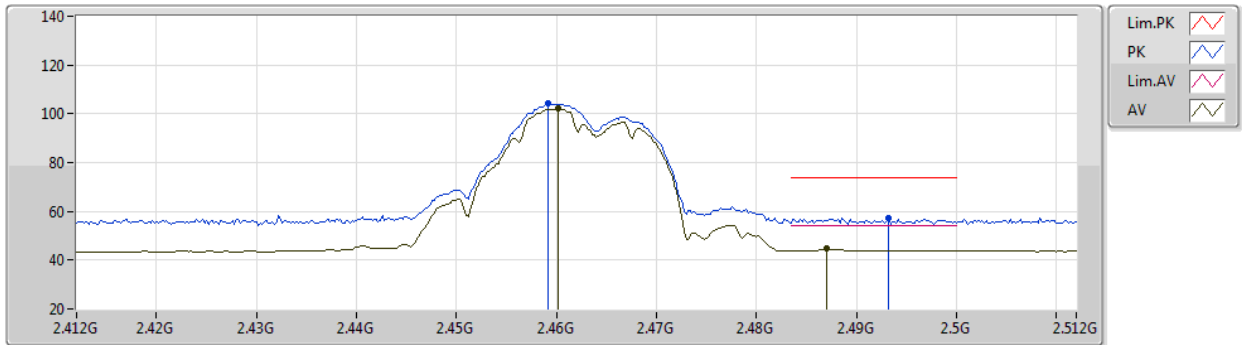


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4638G	106.92	Inf	-Inf	31.61	3	Vertical	122	2.43	-	75.31	27.54	4.07	-
AV	2.4836G	46.12	54.00	-7.88	31.61	3	Vertical	122	2.43	-	14.51	27.52	4.09	-
PK	2.4648G	108.98	Inf	-Inf	31.61	3	Vertical	122	2.43	-	77.37	27.54	4.07	-
PK	2.485G	58.02	74.00	-15.98	31.61	3	Vertical	122	2.43	-	26.41	27.52	4.09	-

802.11b\_Nss1,(1Mbps)\_2TX

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2462MHz\_TX



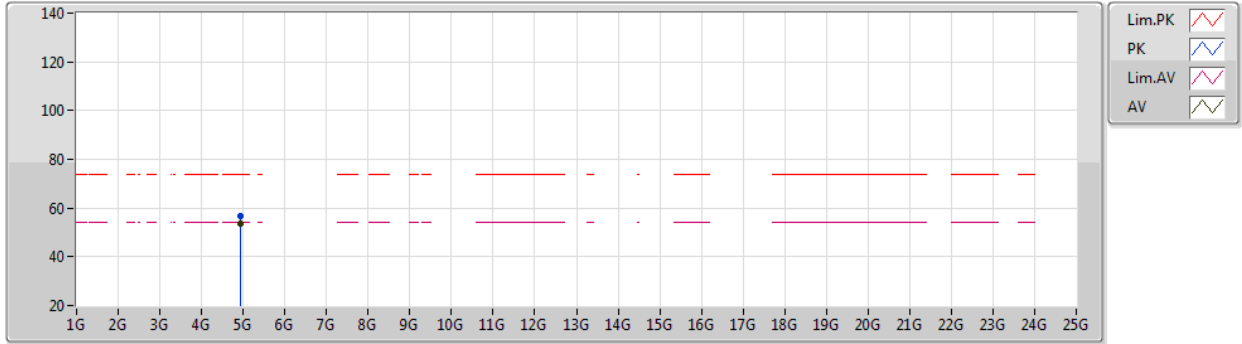
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AV	2.4602G	102.10	Inf	-Inf	31.60	3	Horizontal	202	1.50	-	70.50	27.54	4.06	-
AV	2.487G	44.57	54.00	-9.43	31.60	3	Horizontal	202	1.50	-	12.97	27.51	4.09	-
PK	2.4592G	104.49	Inf	-Inf	31.60	3	Horizontal	202	1.50	-	72.89	27.54	4.06	-
PK	2.4932G	57.15	74.00	-16.85	31.61	3	Horizontal	202	1.50	-	25.54	27.51	4.10	-



802.11b\_Nss1,(1Mbps)\_2TX

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2462MHz\_TX



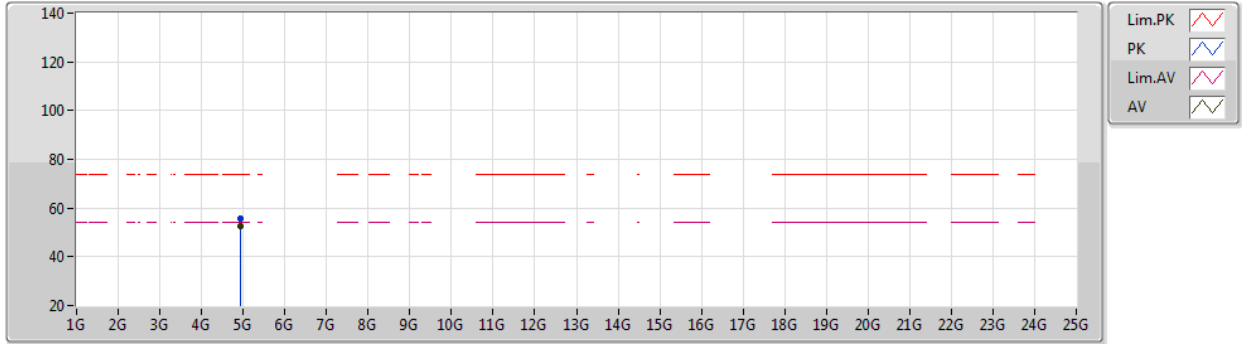
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AV	4.924G	53.71	54.00	-0.29	3.89	3	Vertical	290	2.52	-	49.82	31.20	6.74	34.05
PK	4.92398G	56.70	74.00	-17.30	3.89	3	Vertical	290	2.52	-	52.81	31.20	6.74	34.05



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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92399G	52.36	54.00	-1.64	3.89	3	Horizontal	51	1.00	-	48.47	31.20	6.74	34.05
PK	4.92394G	55.72	74.00	-18.28	3.89	3	Horizontal	51	1.00	-	51.83	31.20	6.74	34.05

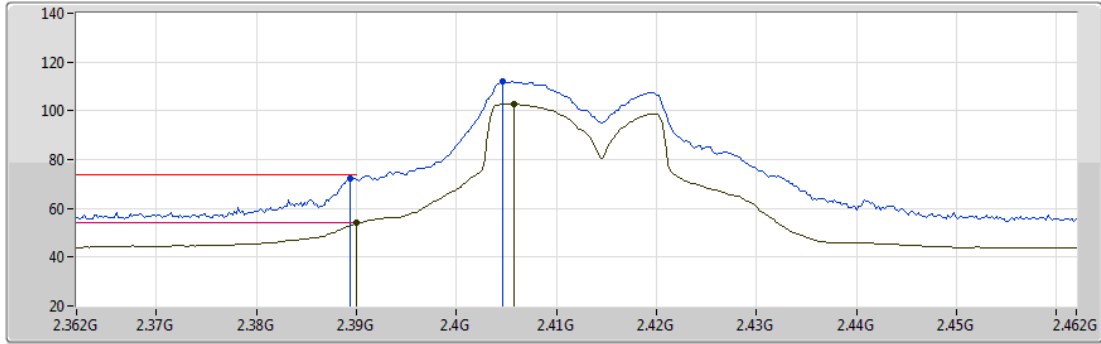




802.11g\_Nss1,(6Mbps)\_2TX

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2412MHz\_TX



Lim.PK   
 PK   
 Lim.AV   
 AV

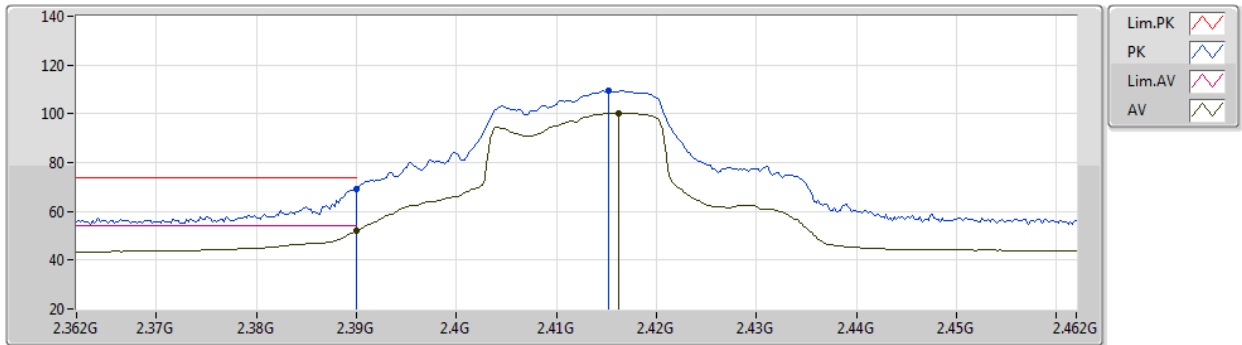
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AV	2.39G	53.94	54.00	-0.06	31.63	3	Vertical	229	1.50	-	22.31	27.64	3.99	-
AV	2.4058G	102.67	Inf	-Inf	31.60	3	Vertical	229	1.50	-	71.07	27.59	4.01	-
PK	2.3894G	72.20	74.00	-1.80	31.63	3	Vertical	229	1.50	-	40.57	27.64	3.99	-
PK	2.4046G	111.90	Inf	-Inf	31.60	3	Vertical	229	1.50	-	80.30	27.60	4.00	-



802.11g\_Nss1,(6Mbps)\_2TX

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2412MHz\_TX



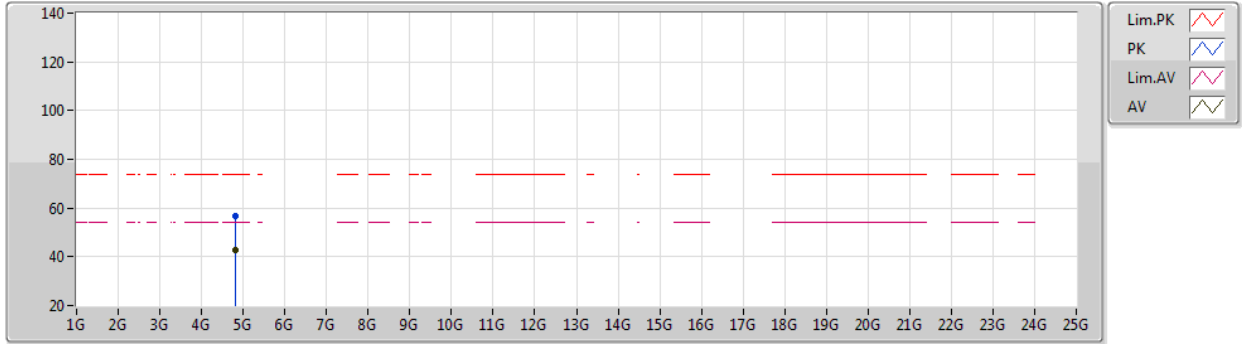
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AV	2.39G	52.16	54.00	-1.84	31.63	3	Horizontal	54	1.31	-	20.53	27.64	3.99	-
AV	2.4162G	100.37	Inf	-Inf	31.60	3	Horizontal	54	1.31	-	68.77	27.58	4.02	-
PK	2.39G	69.13	74.00	-4.87	31.63	3	Horizontal	54	1.31	-	37.50	27.64	3.99	-
PK	2.4152G	109.65	Inf	-Inf	31.60	3	Horizontal	54	1.31	-	78.05	27.58	4.02	-



802.11g\_Nss1,(6Mbps)\_2TX

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2412MHz\_TX



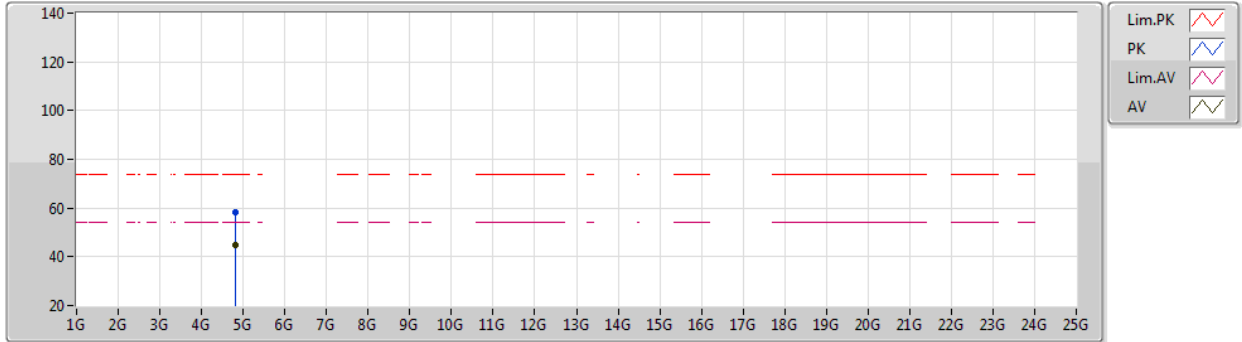
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AV	4.82272G	42.95	54.00	-11.05	3.71	3	Vertical	273	2.86	-	39.24	31.10	6.66	34.05
PK	4.82032G	56.48	74.00	-17.52	3.71	3	Vertical	273	2.86	-	52.77	31.10	6.66	34.05



802.11g\_Nss1,(6Mbps)\_2TX

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2412MHz\_TX



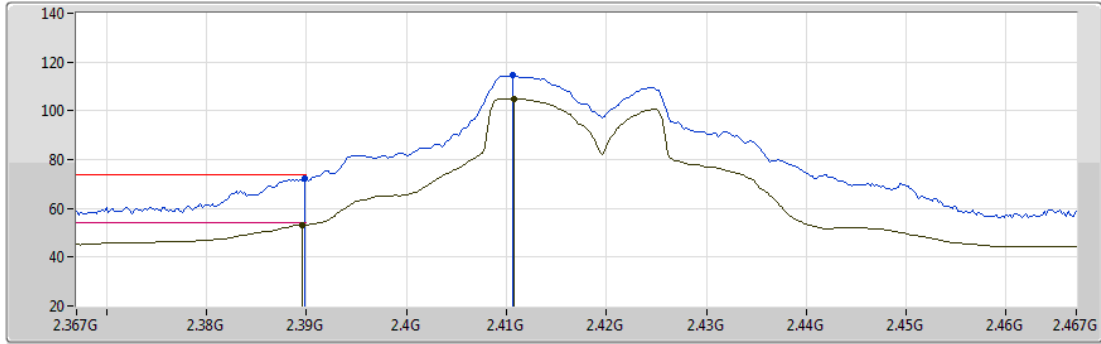
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AV	4.81752G	44.74	54.00	-9.26	3.71	3	Horizontal	56	1.00	-	41.03	31.10	6.66	34.05
PK	4.82032G	58.13	74.00	-15.87	3.71	3	Horizontal	56	1.00	-	54.42	31.10	6.66	34.05



802.11g\_Nss1,(6Mbps)\_2TX

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2417MHz\_TX



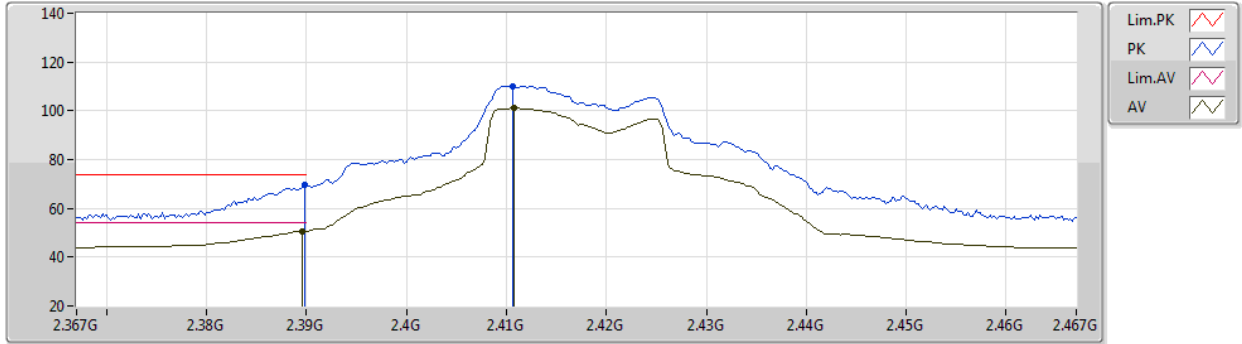
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AV	2.3896G	53.22	54.00	-0.78	31.63	3	Vertical	229	1.50	-	21.59	27.64	3.99	-
AV	2.4108G	105.03	Inf	-Inf	31.60	3	Vertical	229	1.50	-	73.43	27.59	4.01	-
PK	2.3898G	72.13	74.00	-1.87	31.63	3	Vertical	229	1.50	-	40.50	27.64	3.99	-
PK	2.4106G	114.40	Inf	-Inf	31.60	3	Vertical	229	1.50	-	82.80	27.59	4.01	-



802.11g\_Nss1,(6Mbps)\_2TX

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2417MHz\_TX



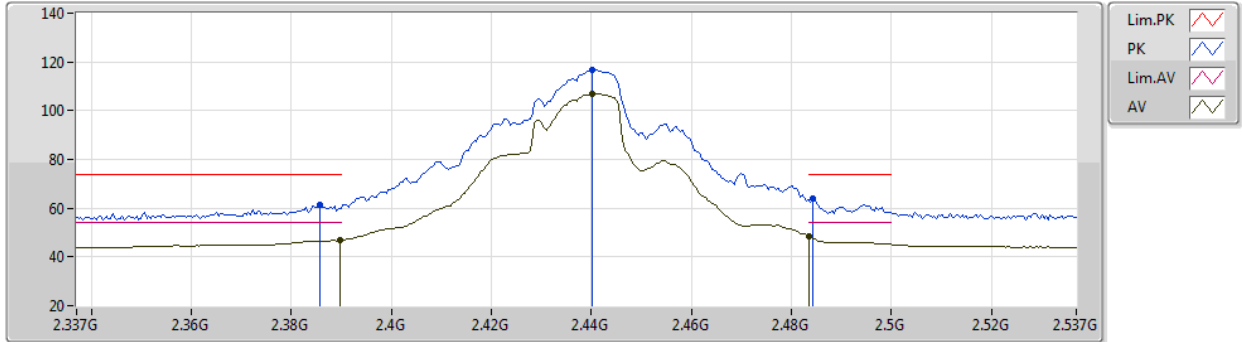
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	50.68	54.00	-3.32	31.63	3	Horizontal	198	1.50	-	19.05	27.64	3.99	-
AV	2.4108G	101.10	Inf	-Inf	31.60	3	Horizontal	198	1.50	-	69.50	27.59	4.01	-
PK	2.3898G	69.47	74.00	-4.53	31.63	3	Horizontal	198	1.50	-	37.84	27.64	3.99	-
PK	2.4106G	110.05	Inf	-Inf	31.60	3	Horizontal	198	1.50	-	78.45	27.59	4.01	-



802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2437MHz\_TX



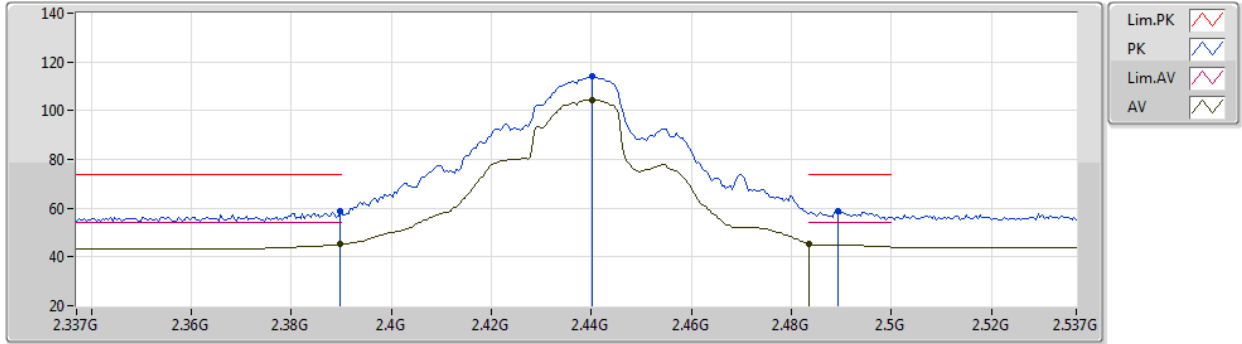
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	47.04	54.00	-6.96	31.63	3	Vertical	131	3.00	-	15.41	27.64	3.99	-
AV	2.4402G	106.89	Inf	-Inf	31.60	3	Vertical	131	3.00	-	75.29	27.56	4.04	-
AV	2.4835G	48.38	54.00	-5.62	31.61	3	Vertical	131	3.00	-	16.77	27.52	4.09	-
PK	2.3858G	61.23	74.00	-12.77	31.65	3	Vertical	131	3.00	-	29.58	27.66	3.99	-
PK	2.4402G	116.82	Inf	-Inf	31.60	3	Vertical	131	3.00	-	85.22	27.56	4.04	-
PK	2.4842G	64.05	74.00	-9.95	31.61	3	Vertical	131	3.00	-	32.44	27.52	4.09	-



802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2437MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	45.15	54.00	-8.85	31.63	3	Horizontal	58	2.81	-	13.52	27.64	3.99	-
AV	2.4402G	104.45	Inf	-Inf	31.60	3	Horizontal	58	2.81	-	72.85	27.56	4.04	-
AV	2.4835G	45.46	54.00	-8.54	31.61	3	Horizontal	58	2.81	-	13.85	27.52	4.09	-
PK	2.3898G	58.57	74.00	-15.43	31.63	3	Horizontal	58	2.81	-	26.94	27.64	3.99	-
PK	2.4402G	114.09	Inf	-Inf	31.60	3	Horizontal	58	2.81	-	82.49	27.56	4.04	-
PK	2.4894G	58.83	74.00	-15.17	31.60	3	Horizontal	58	2.81	-	27.23	27.51	4.09	-

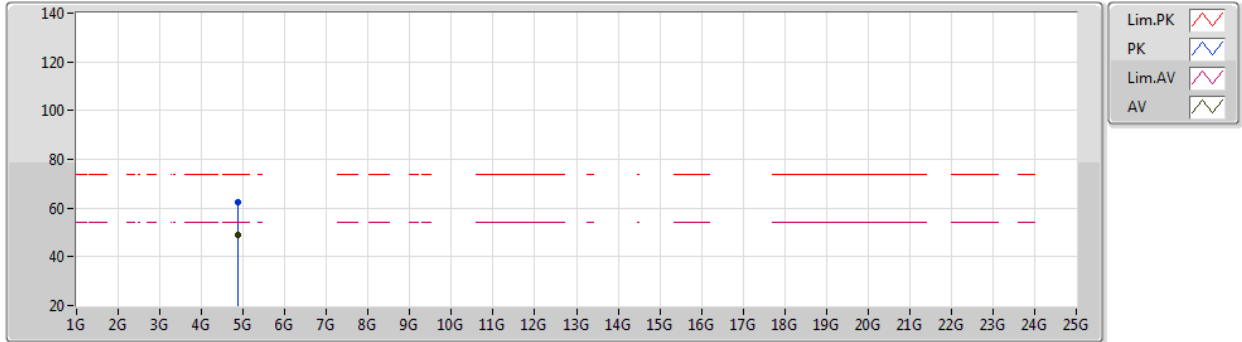




802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2437MHz\_TX



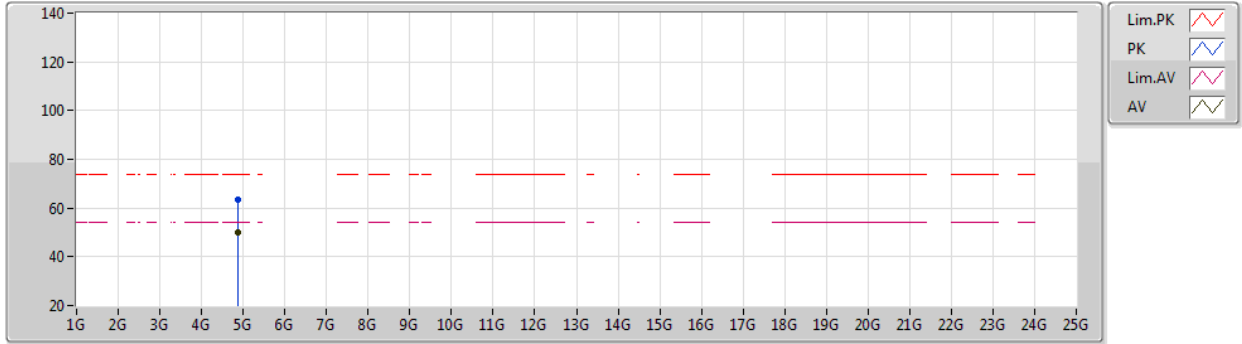
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.86336G	49.02	54.00	-4.98	3.74	3	Vertical	268	2.30	-	45.28	31.10	6.69	34.05
PK	4.86352G	62.27	74.00	-11.73	3.74	3	Vertical	268	2.30	-	58.53	31.10	6.69	34.05



802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2437MHz\_TX



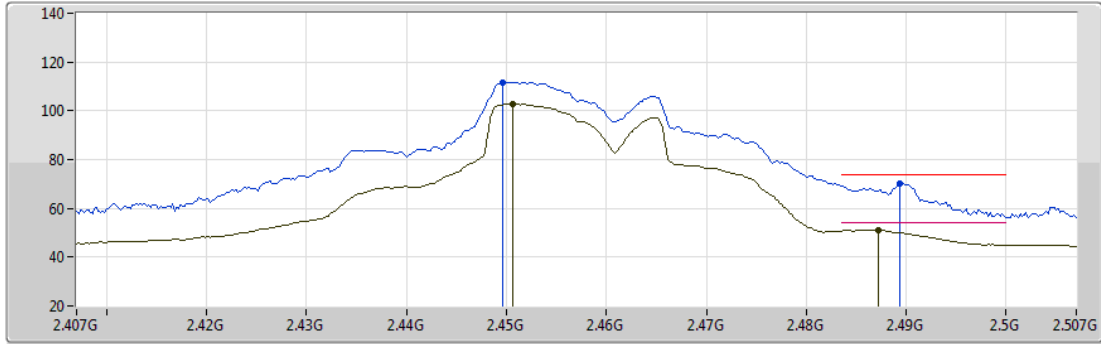
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.86336G	50.08	54.00	-3.92	3.74	3	Horizontal	56	1.03	-	46.34	31.10	6.69	34.05
PK	4.86328G	63.36	74.00	-10.64	3.74	3	Horizontal	56	1.03	-	59.62	31.10	6.69	34.05



802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2457MHz\_TX



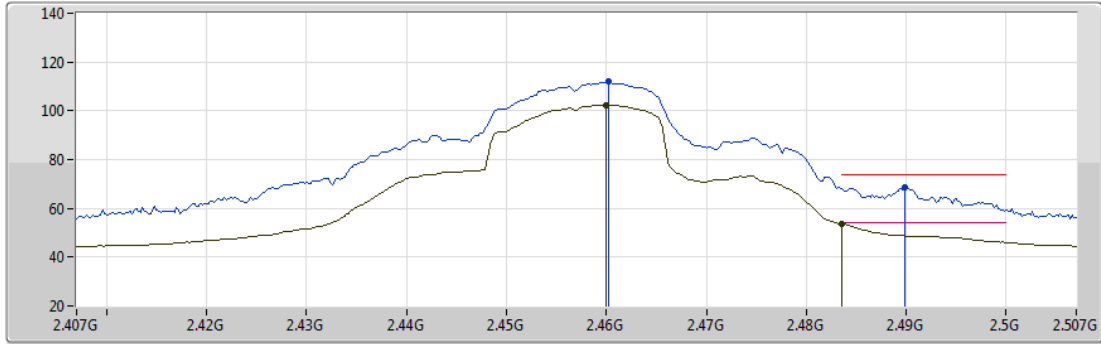
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4506G	102.72	Inf	-Inf	31.60	3	Vertical	229	1.50	-	71.12	27.55	4.05	-
AV	2.4872G	51.23	54.00	-2.77	31.60	3	Vertical	229	1.50	-	19.63	27.51	4.09	-
PK	2.4496G	111.80	Inf	-Inf	31.60	3	Vertical	229	1.50	-	80.20	27.55	4.05	-
PK	2.4894G	70.14	74.00	-3.86	31.60	3	Vertical	229	1.50	-	38.54	27.51	4.09	-



802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2457MHz\_TX



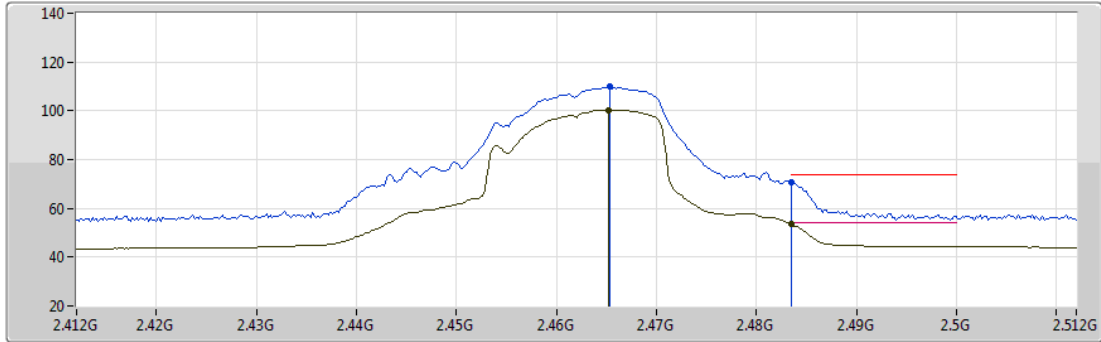
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.46G	102.41	Inf	-Inf	31.60	3	Horizontal	44	1.50	-	70.81	27.54	4.06	-
AV	2.4835G	53.51	54.00	-0.49	31.61	3	Horizontal	44	1.50	-	21.90	27.52	4.09	-
PK	2.4602G	111.90	Inf	-Inf	31.60	3	Horizontal	44	1.50	-	80.30	27.54	4.06	-
PK	2.4898G	68.45	74.00	-5.55	31.60	3	Horizontal	44	1.50	-	36.85	27.51	4.09	-



802.11g\_Nss1,(6Mbps)\_2TX

10/03/2020

2462MHz\_TX



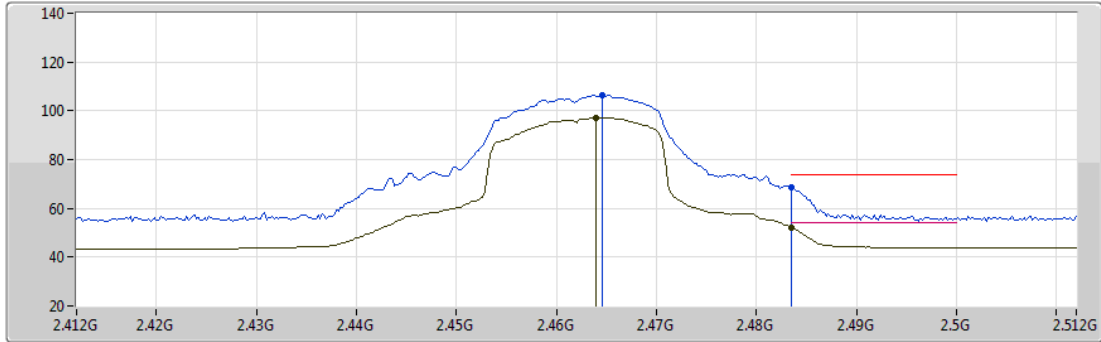
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4652G	100.34	Inf	-Inf	31.60	3	Vertical	136	2.99	-	68.74	27.53	4.07	-
AV	2.4835G	53.38	54.00	-0.62	31.61	3	Vertical	136	2.99	-	21.77	27.52	4.09	-
PK	2.4654G	109.82	Inf	-Inf	31.60	3	Vertical	136	2.99	-	78.22	27.53	4.07	-
PK	2.4835G	70.56	74.00	-3.44	31.61	3	Vertical	136	2.99	-	38.95	27.52	4.09	-



802.11g\_Nss1,(6Mbps)\_2TX

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2462MHz\_TX



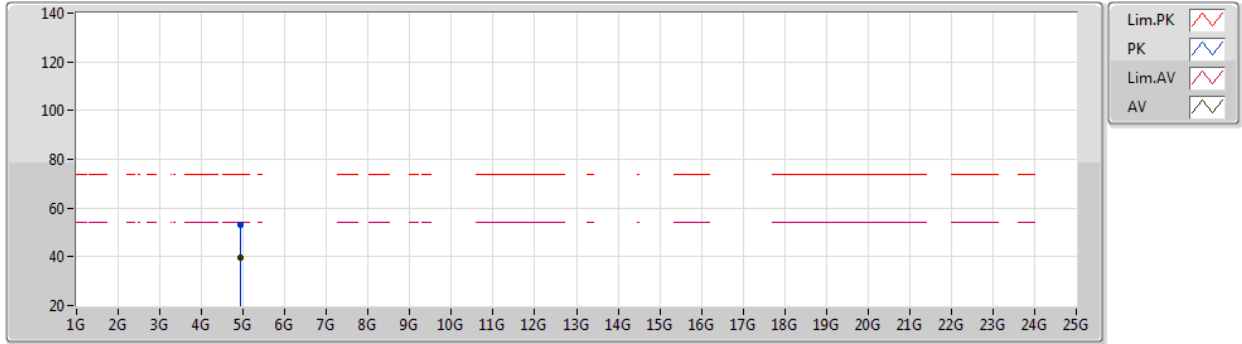
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.464G	97.22	Inf	-Inf	31.61	3	Horizontal	44	1.50	-	65.61	27.54	4.07	-
AV	2.4835G	51.93	54.00	-2.07	31.61	3	Horizontal	44	1.50	-	20.32	27.52	4.09	-
PK	2.464G	106.37	Inf	-Inf	31.61	3	Horizontal	44	1.50	-	74.76	27.54	4.07	-
PK	2.4835G	68.52	74.00	-5.48	31.61	3	Horizontal	44	1.50	-	36.91	27.52	4.09	-



802.11g\_Nss1,(6Mbps)\_2TX

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2462MHz\_TX



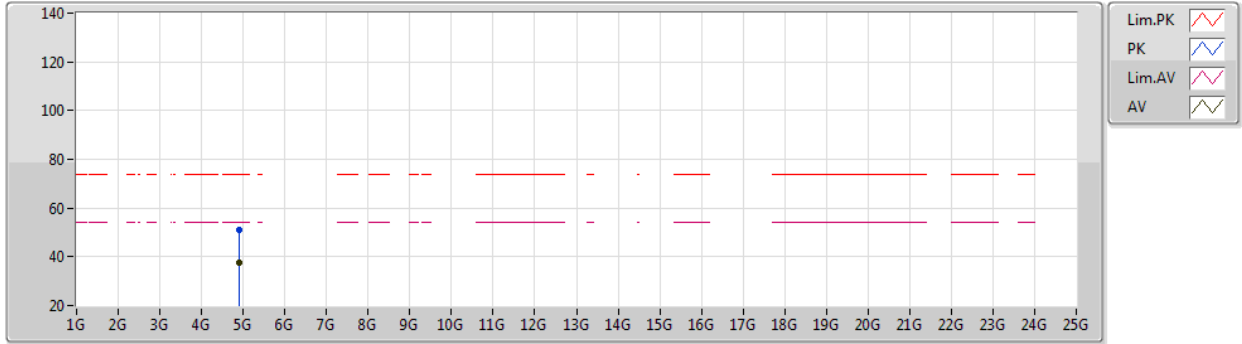
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92168G	39.72	54.00	-14.28	3.88	3	Vertical	260	2.37	-	35.84	31.19	6.74	34.05
PK	4.92024G	53.34	74.00	-20.66	3.87	3	Vertical	260	2.37	-	49.47	31.18	6.74	34.05



802.11g\_Nss1,(6Mbps)\_2TX

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2462MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9176G	37.68	54.00	-16.32	3.85	3	Horizontal	51	1.50	-	33.83	31.17	6.73	34.05
PK	4.91728G	51.14	74.00	-22.86	3.85	3	Horizontal	51	1.50	-	47.29	31.17	6.73	34.05

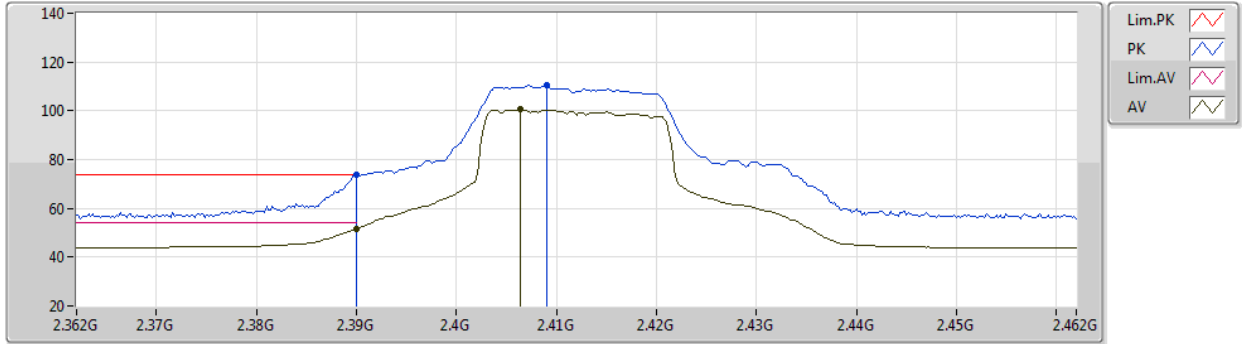




802.11n HT20\_Nss1,(MCS0)\_2TX

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2412MHz\_TX



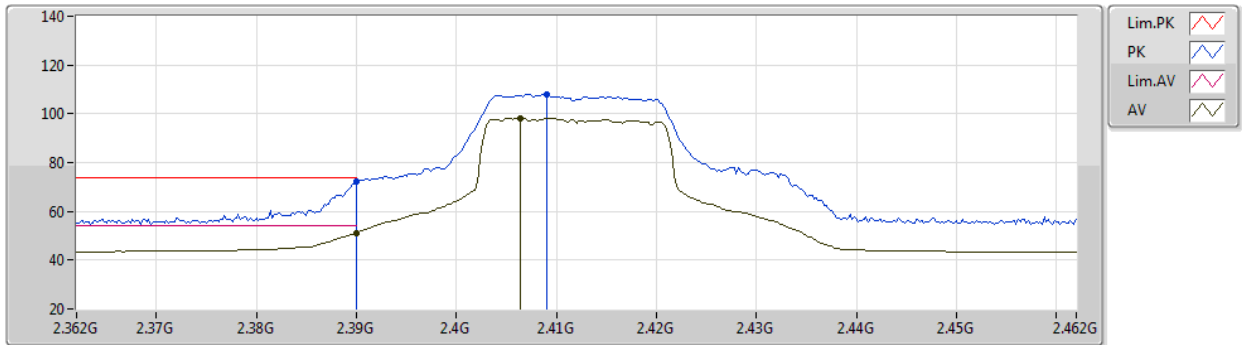
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.58	54.00	-2.42	31.63	3	Vertical	285	1.46	-	19.95	27.64	3.99	-
AV	2.4064G	100.50	Inf	-Inf	31.60	3	Vertical	285	1.46	-	68.90	27.59	4.01	-
PK	2.39G	73.67	74.00	-0.33	31.63	3	Vertical	285	1.46	-	42.04	27.64	3.99	-
PK	2.409G	110.35	Inf	-Inf	31.60	3	Vertical	285	1.46	-	78.75	27.59	4.01	-



802.11n HT20\_Nss1,(MCS0)\_2TX

10/03/2020

2412MHz\_TX



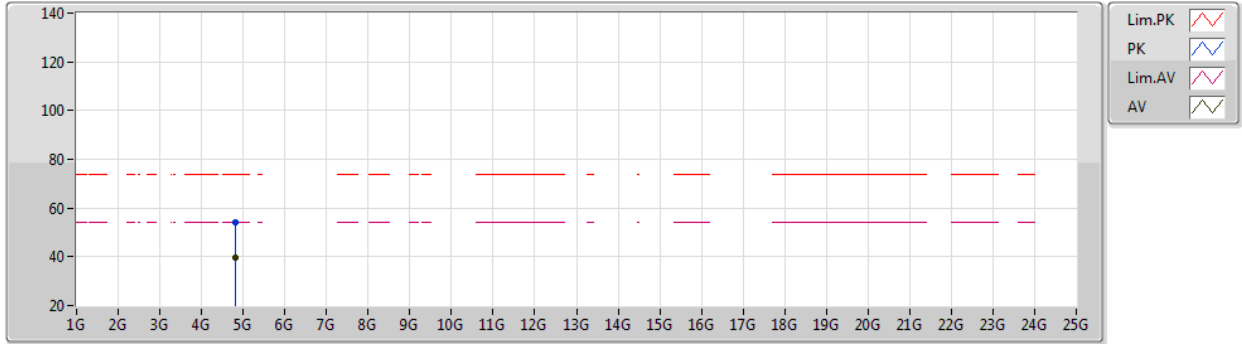
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.27	54.00	-2.73	31.63	3	Horizontal	188	1.28	-	19.64	27.64	3.99	-
AV	2.4064G	98.23	Inf	-Inf	31.60	3	Horizontal	188	1.28	-	66.63	27.59	4.01	-
PK	2.39G	72.38	74.00	-1.62	31.63	3	Horizontal	188	1.28	-	40.75	27.64	3.99	-
PK	2.409G	108.17	Inf	-Inf	31.60	3	Horizontal	188	1.28	-	76.57	27.59	4.01	-



802.11n HT20\_Nss1,(MCS0)\_2TX

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2412MHz\_TX



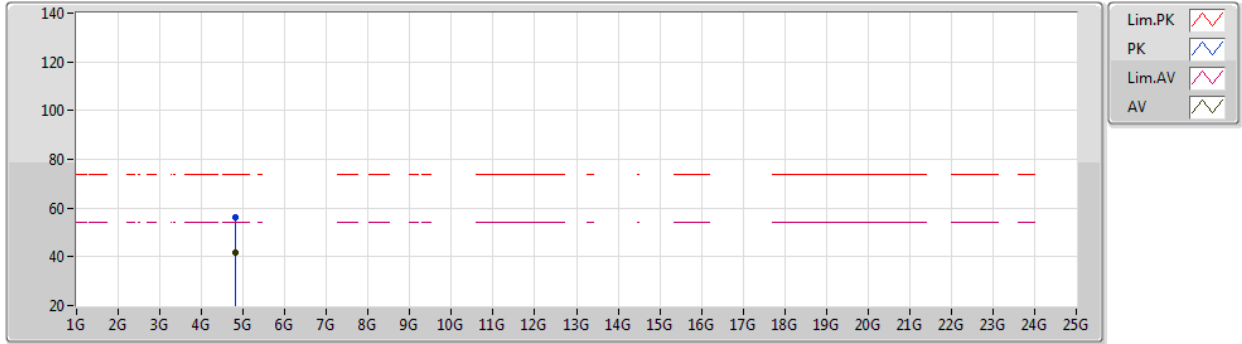
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82392G	39.54	54.00	-14.46	3.71	3	Vertical	271	2.15	-	35.83	31.10	6.66	34.05
PK	4.82336G	54.33	74.00	-19.67	3.71	3	Vertical	271	2.15	-	50.62	31.10	6.66	34.05



802.11n HT20\_Nss1,(MCS0)\_2TX

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2412MHz\_TX



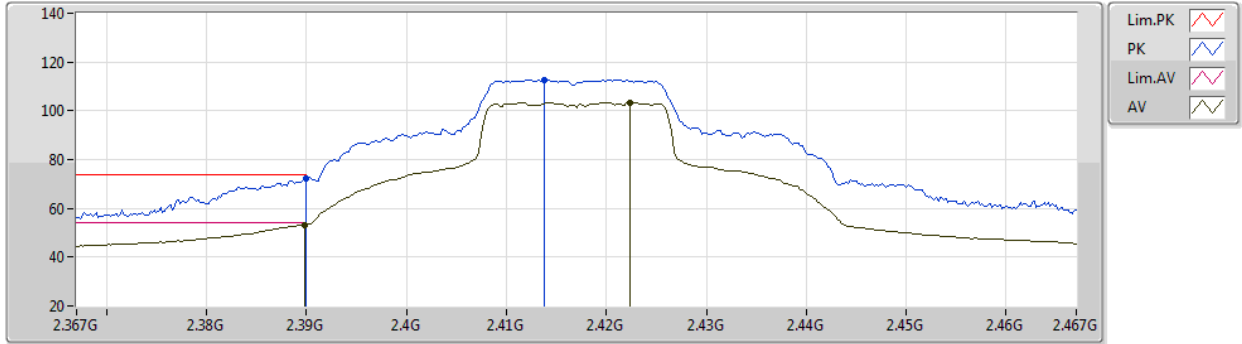
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.824G	41.75	54.00	-12.25	3.71	3	Horizontal	53	1.01	-	38.04	31.10	6.66	34.05
PK	4.8232G	56.13	74.00	-17.87	3.71	3	Horizontal	53	1.01	-	52.42	31.10	6.66	34.05



802.11n HT20\_Nss1,(MCS0)\_2TX

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2417MHz\_TX



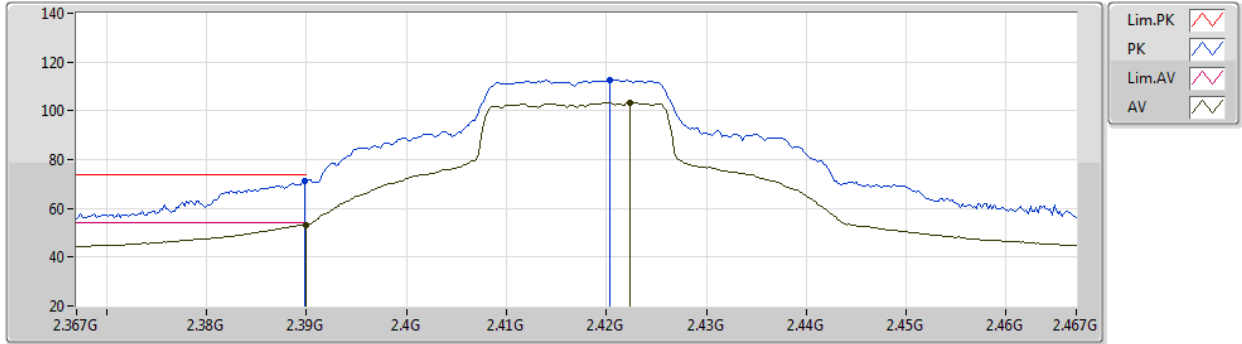
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	53.33	54.00	-0.67	31.63	3	Vertical	161	1.17	-	21.70	27.64	3.99	-
AV	2.4224G	103.39	Inf	-Inf	31.60	3	Vertical	161	1.17	-	71.79	27.58	4.02	-
PK	2.39G	72.06	74.00	-1.94	31.63	3	Vertical	161	1.17	-	40.43	27.64	3.99	-
PK	2.4138G	112.82	Inf	-Inf	31.60	3	Vertical	161	1.17	-	81.22	27.59	4.01	-



802.11n HT20\_Nss1,(MCS0)\_2TX

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2417MHz\_TX



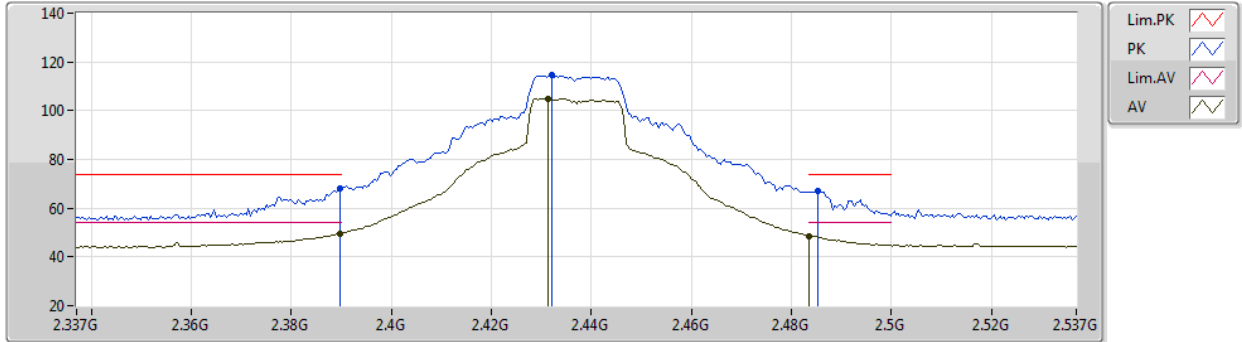
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	53.30	54.00	-0.70	31.63	3	Horizontal	56	2.87	-	21.67	27.64	3.99	-
AV	2.4224G	103.36	Inf	-Inf	31.60	3	Horizontal	56	2.87	-	71.76	27.58	4.02	-
PK	2.3898G	71.28	74.00	-2.72	31.63	3	Horizontal	56	2.87	-	39.65	27.64	3.99	-
PK	2.4204G	112.70	Inf	-Inf	31.60	3	Horizontal	56	2.87	-	81.10	27.58	4.02	-



802.11n HT20\_Nss1,(MCS0)\_2TX

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2437MHz\_TX



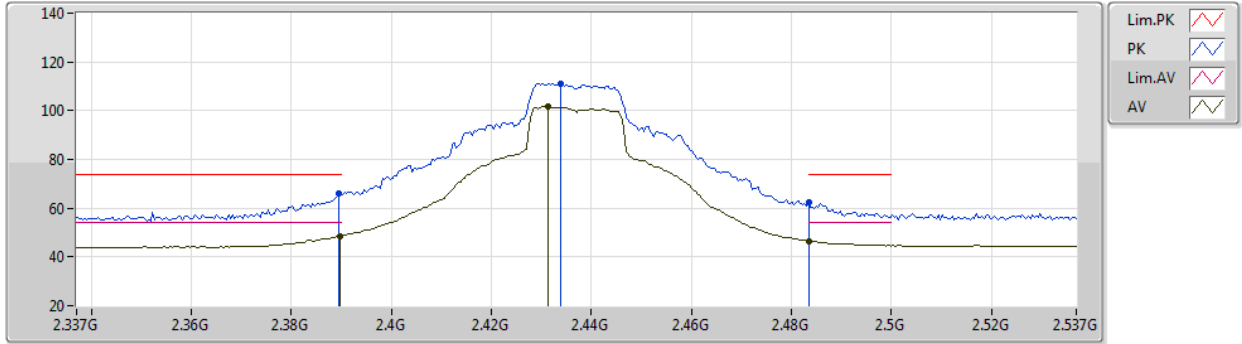
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	49.60	54.00	-4.40	31.63	3	Vertical	232	1.40	-	17.97	27.64	3.99	-
AV	2.4314G	104.96	Inf	-Inf	31.60	3	Vertical	232	1.40	-	73.36	27.57	4.03	-
AV	2.4835G	48.59	54.00	-5.41	31.61	3	Vertical	232	1.40	-	16.98	27.52	4.09	-
PK	2.3898G	67.93	74.00	-6.07	31.63	3	Vertical	232	1.40	-	36.30	27.64	3.99	-
PK	2.4322G	114.44	Inf	-Inf	31.60	3	Vertical	232	1.40	-	82.84	27.57	4.03	-
PK	2.4854G	67.30	74.00	-6.70	31.60	3	Vertical	232	1.40	-	35.70	27.51	4.09	-



802.11n HT20\_Nss1,(MCS0)\_2TX

10/03/2020

2437MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	48.53	54.00	-5.47	31.63	3	Horizontal	198	1.50	-	16.90	27.64	3.99	-
AV	2.4314G	101.67	Inf	-Inf	31.60	3	Horizontal	198	1.50	-	70.07	27.57	4.03	-
AV	2.4835G	46.44	54.00	-7.56	31.61	3	Horizontal	198	1.50	-	14.83	27.52	4.09	-
PK	2.3894G	66.18	74.00	-7.82	31.63	3	Horizontal	198	1.50	-	34.55	27.64	3.99	-
PK	2.4338G	111.04	Inf	-Inf	31.61	3	Horizontal	198	1.50	-	79.43	27.57	4.04	-
PK	2.4835G	62.66	74.00	-11.34	31.61	3	Horizontal	198	1.50	-	31.05	27.52	4.09	-

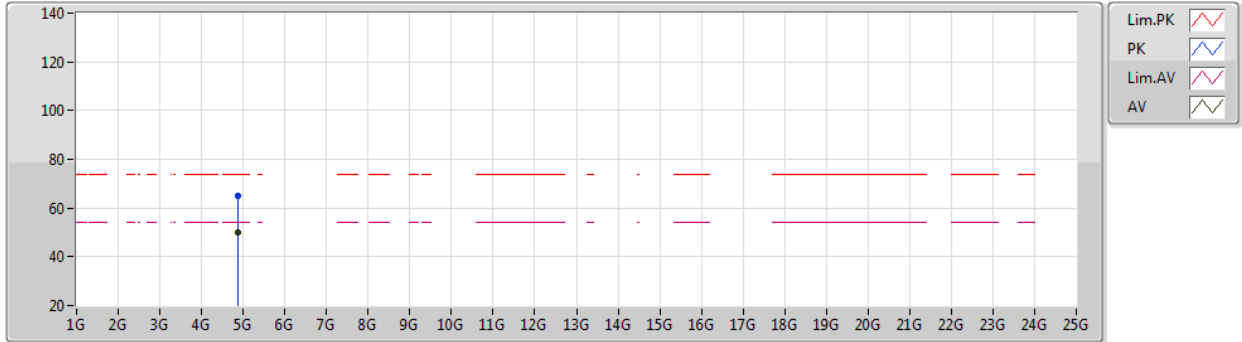




802.11n HT20\_Nss1,(MCS0)\_2TX

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2437MHz\_TX



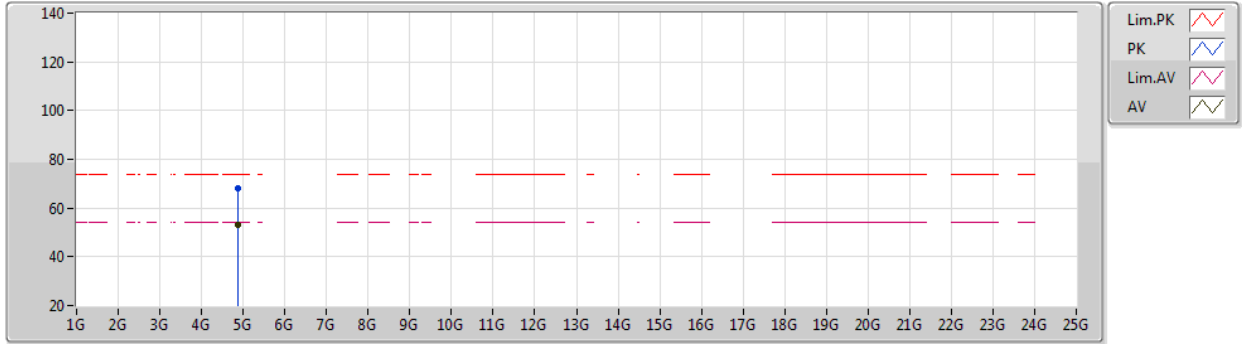
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87416G	49.84	54.00	-4.16	3.75	3	Vertical	262	2.69	-	46.09	31.10	6.70	34.05
PK	4.87312G	65.00	74.00	-9.00	3.75	3	Vertical	262	2.69	-	61.25	31.10	6.70	34.05



802.11n HT20\_Nss1,(MCS0)\_2TX

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2437MHz\_TX

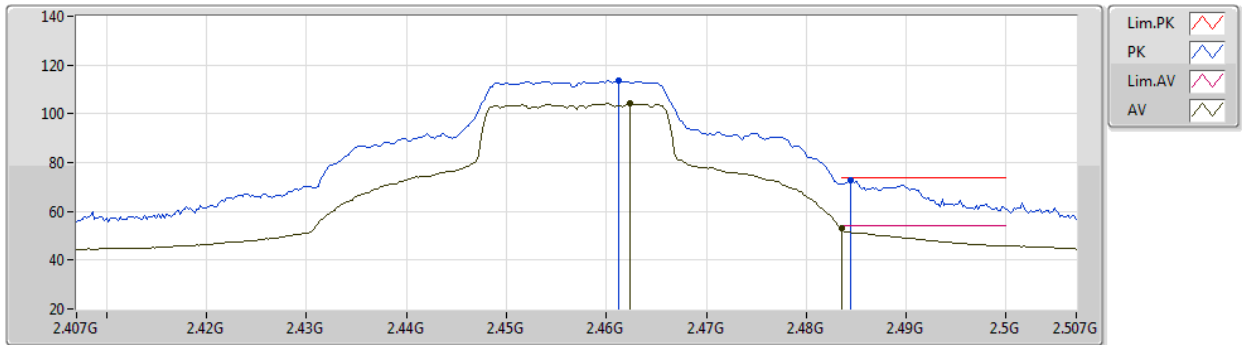


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.874G	53.28	54.00	-0.72	3.75	3	Horizontal	54	1.07	-	49.53	31.10	6.70	34.05
PK	4.8732G	68.26	74.00	-5.74	3.75	3	Horizontal	54	1.07	-	64.51	31.10	6.70	34.05

802.11n HT20\_Nss1,(MCS0)\_2TX

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2457MHz\_TX



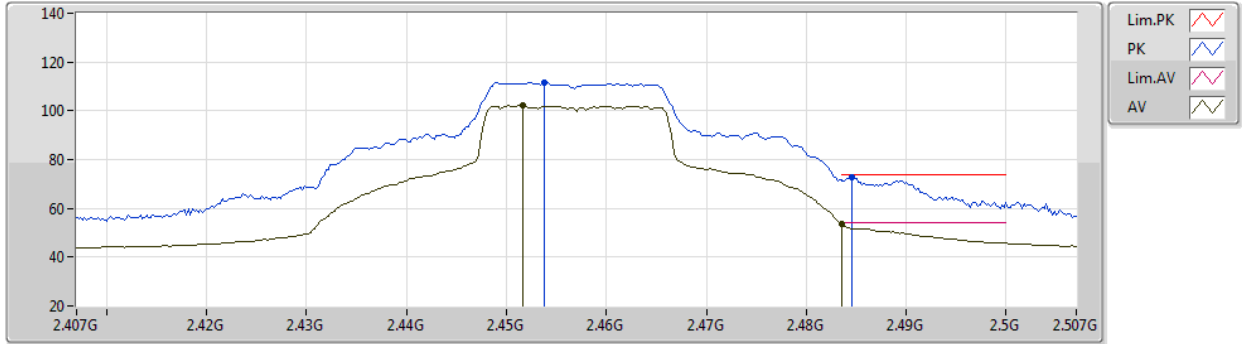
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4624G	104.13	Inf	-Inf	31.61	3	Vertical	160	1.16	-	72.52	27.54	4.07	-
AV	2.4835G	53.34	54.00	-0.66	31.61	3	Vertical	160	1.16	-	21.73	27.52	4.09	-
PK	2.4612G	113.48	Inf	-Inf	31.60	3	Vertical	160	1.16	-	81.88	27.54	4.06	-
PK	2.4844G	72.66	74.00	-1.34	31.61	3	Vertical	160	1.16	-	41.05	27.52	4.09	-



802.11n HT20\_Nss1,(MCS0)\_2TX

10/03/2020

2457MHz\_TX



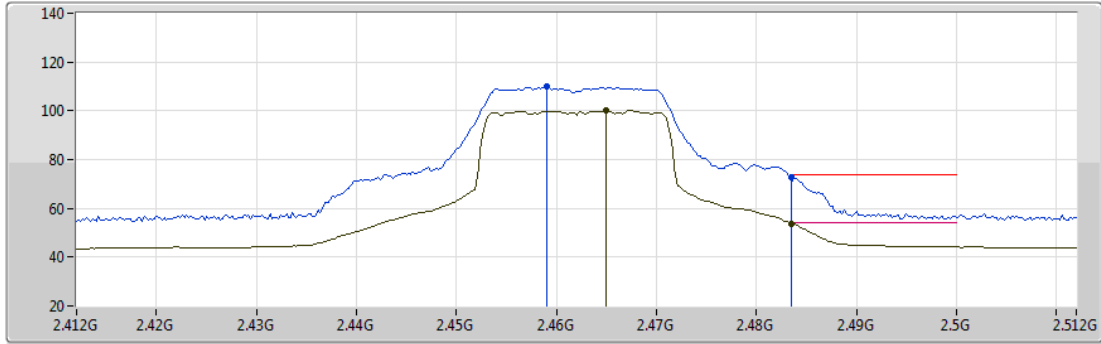
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4516G	102.19	Inf	-Inf	31.60	3	Horizontal	41	1.50	-	70.59	27.55	4.05	-
AV	2.4835G	53.68	54.00	-0.32	31.61	3	Horizontal	41	1.50	-	22.07	27.52	4.09	-
PK	2.4538G	111.67	Inf	-Inf	31.61	3	Horizontal	41	1.50	-	80.06	27.55	4.06	-
PK	2.4846G	72.70	74.00	-1.30	31.61	3	Horizontal	41	1.50	-	41.09	27.52	4.09	-



802.11n HT20\_Nss1,(MCS0)\_2TX

10/03/2020

2462MHz\_TX

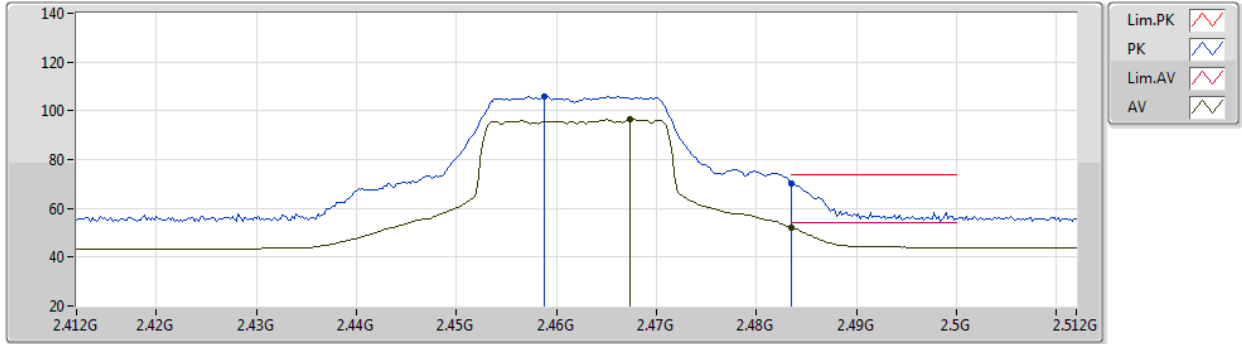


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.465G	100.04	Inf	-Inf	31.61	3	Vertical	163	1.15	-	68.43	27.54	4.07	-
AV	2.4835G	53.83	54.00	-0.17	31.61	3	Vertical	163	1.15	-	22.22	27.52	4.09	-
PK	2.459G	109.97	Inf	-Inf	31.60	3	Vertical	163	1.15	-	78.37	27.54	4.06	-
PK	2.4835G	72.66	74.00	-1.34	31.61	3	Vertical	163	1.15	-	41.05	27.52	4.09	-

802.11n HT20\_Nss1,(MCS0)\_2TX

10/03/2020

2462MHz\_TX



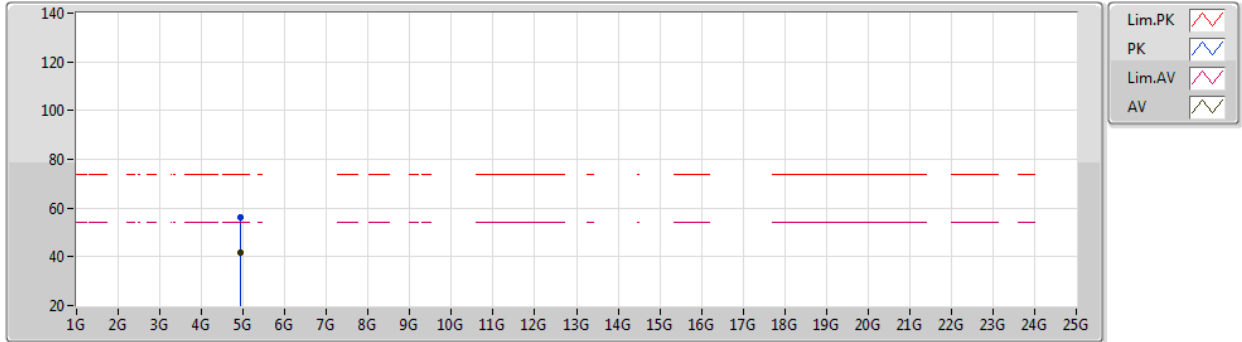
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4674G	96.38	Inf	-Inf	31.60	3	Horizontal	44	1.50	-	64.78	27.53	4.07	-
AV	2.4835G	52.07	54.00	-1.93	31.61	3	Horizontal	44	1.50	-	20.46	27.52	4.09	-
PK	2.4588G	105.82	Inf	-Inf	31.60	3	Horizontal	44	1.50	-	74.22	27.54	4.06	-
PK	2.4835G	70.23	74.00	-3.77	31.61	3	Horizontal	44	1.50	-	38.62	27.52	4.09	-



802.11n HT20\_Nss1,(MCS0)\_2TX

10/03/2020

2462MHz\_TX



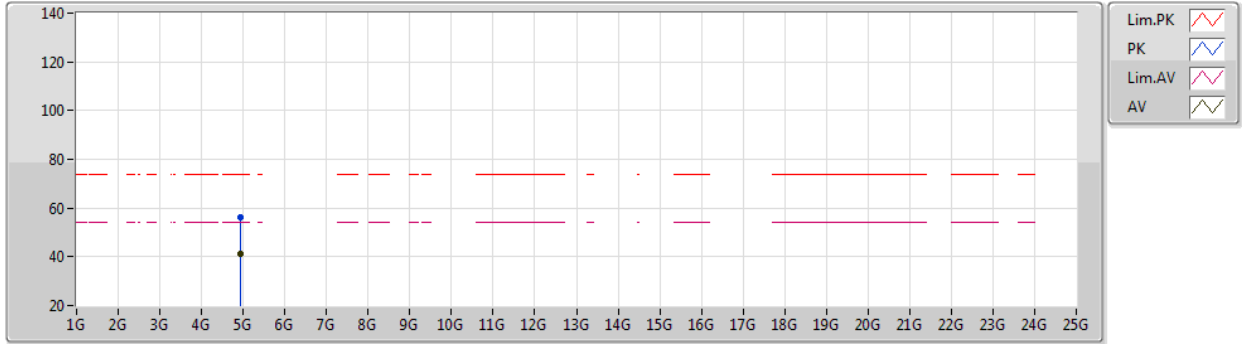
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92392G	41.61	54.00	-12.39	3.89	3	Vertical	269	2.37	-	37.72	31.20	6.74	34.05
PK	4.92304G	56.36	74.00	-17.64	3.88	3	Vertical	269	2.37	-	52.48	31.19	6.74	34.05



802.11n HT20\_Nss1,(MCS0)\_2TX

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2462MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.924G	41.30	54.00	-12.70	3.89	3	Horizontal	56	1.00	-	37.41	31.20	6.74	34.05
PK	4.92304G	55.98	74.00	-18.02	3.88	3	Horizontal	56	1.00	-	52.10	31.19	6.74	34.05

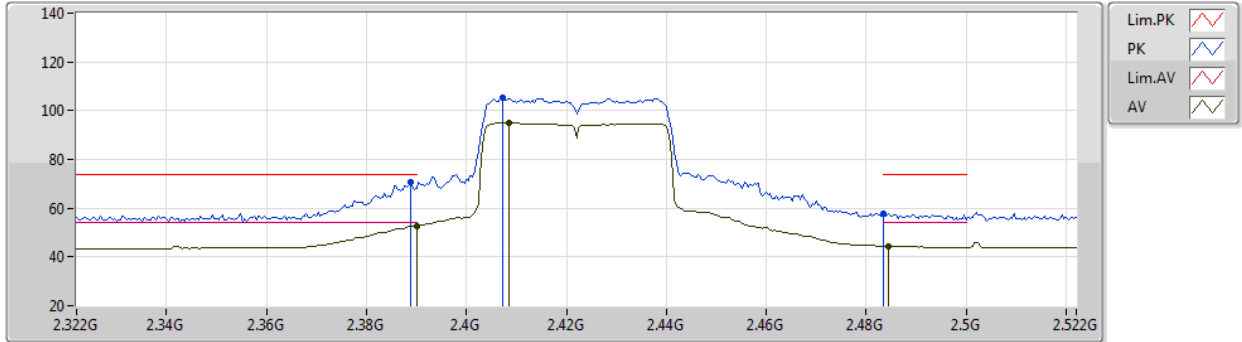




802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2422MHz\_TX



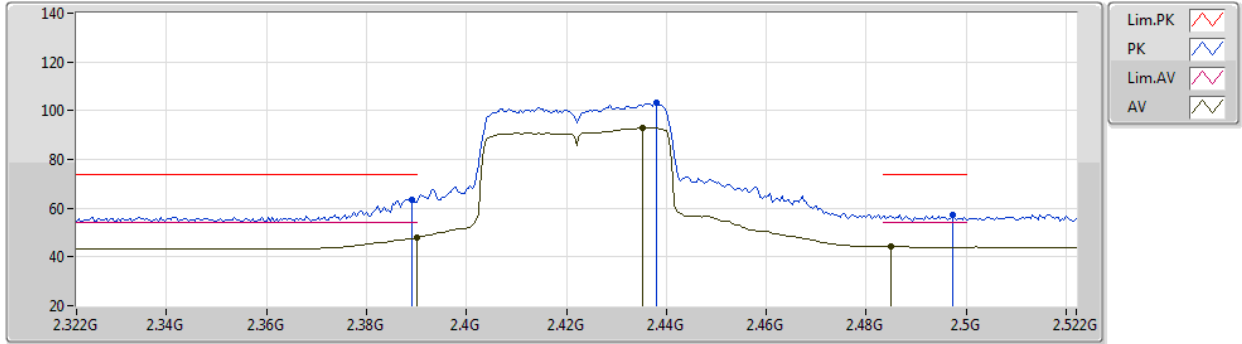
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.65	54.00	-1.35	31.63	3	Vertical	166	1.00	-	21.02	27.64	3.99	-
AV	2.4084G	94.97	Inf	-Inf	31.60	3	Vertical	166	1.00	-	63.37	27.59	4.01	-
AV	2.4844G	44.49	54.00	-9.51	31.61	3	Vertical	166	1.00	-	12.88	27.52	4.09	-
PK	2.3888G	70.62	74.00	-3.38	31.63	3	Vertical	166	1.00	-	38.99	27.64	3.99	-
PK	2.4072G	105.52	Inf	-Inf	31.60	3	Vertical	166	1.00	-	73.92	27.59	4.01	-
PK	2.4835G	57.73	74.00	-16.27	31.61	3	Vertical	166	1.00	-	26.12	27.52	4.09	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2422MHz\_TX



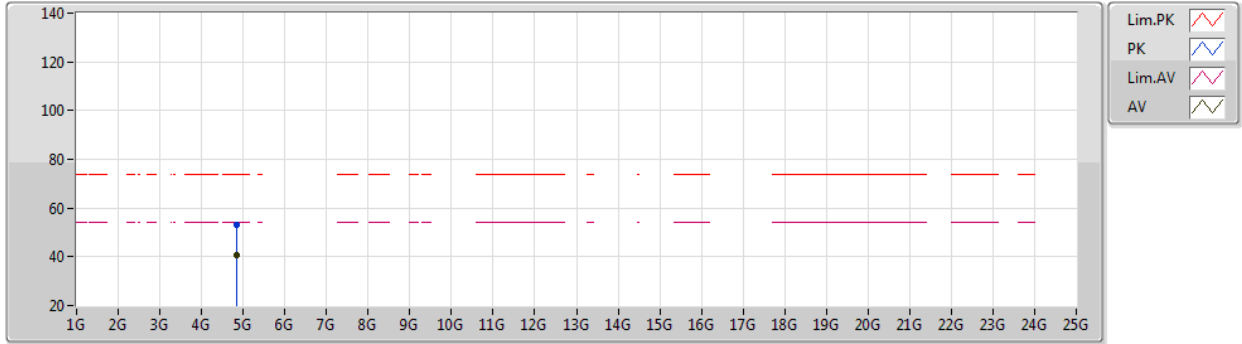
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	47.86	54.00	-6.14	31.63	3	Horizontal	40	1.49	-	16.23	27.64	3.99	-
AV	2.4352G	92.89	Inf	-Inf	31.60	3	Horizontal	40	1.49	-	61.29	27.56	4.04	-
AV	2.4848G	44.35	54.00	-9.65	31.61	3	Horizontal	40	1.49	-	12.74	27.52	4.09	-
PK	2.3892G	63.68	74.00	-10.32	31.63	3	Horizontal	40	1.49	-	32.05	27.64	3.99	-
PK	2.438G	103.49	Inf	-Inf	31.60	3	Horizontal	40	1.49	-	71.89	27.56	4.04	-
PK	2.4972G	57.36	74.00	-16.64	31.60	3	Horizontal	40	1.49	-	25.76	27.50	4.10	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2422MHz\_TX



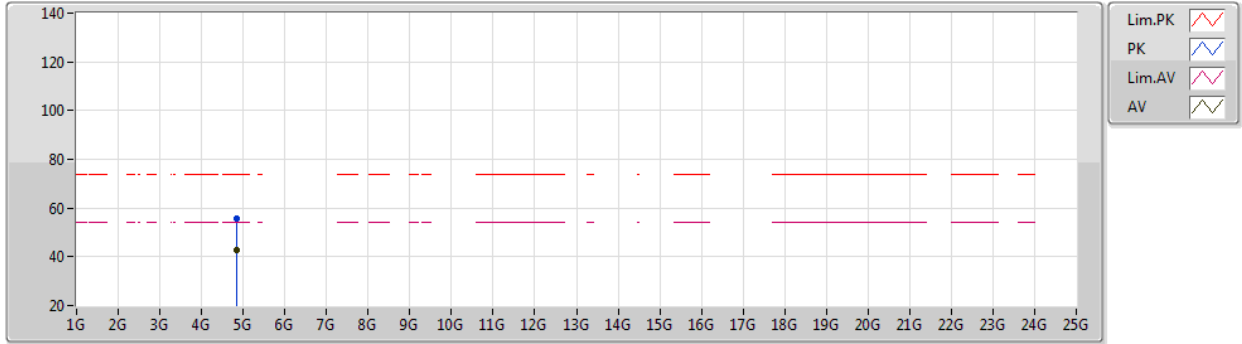
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.844G	40.72	54.00	-13.28	3.73	3	Vertical	257	2.44	-	36.99	31.10	6.68	34.05
PK	4.8445G	53.09	74.00	-20.91	3.73	3	Vertical	257	2.44	-	49.36	31.10	6.68	34.05



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2422MHz\_TX



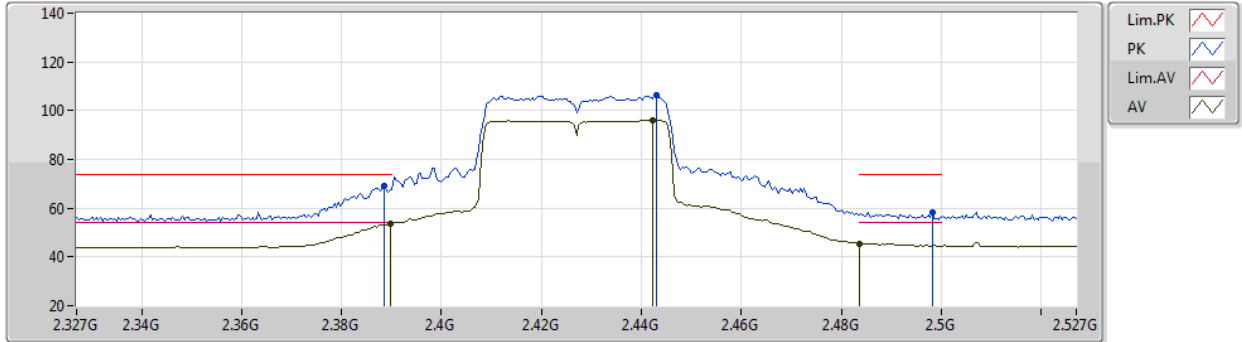
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84404G	42.96	54.00	-11.04	3.73	3	Horizontal	55	1.00	-	39.23	31.10	6.68	34.05
PK	4.84456G	55.92	74.00	-18.08	3.73	3	Horizontal	55	1.00	-	52.19	31.10	6.68	34.05



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2427MHz\_TX



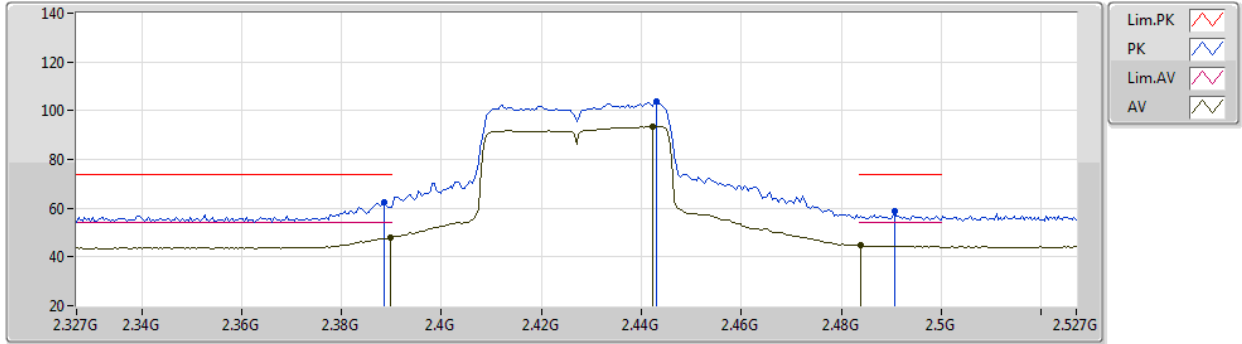
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	53.59	54.00	-0.41	31.63	3	Vertical	161	1.19	-	21.96	27.64	3.99	-
AV	2.4422G	96.08	Inf	-Inf	31.60	3	Vertical	161	1.19	-	64.48	27.56	4.04	-
AV	2.4835G	45.57	54.00	-8.43	31.61	3	Vertical	161	1.19	-	13.96	27.52	4.09	-
PK	2.3886G	69.23	74.00	-4.77	31.64	3	Vertical	161	1.19	-	37.59	27.65	3.99	-
PK	2.443G	106.47	Inf	-Inf	31.61	3	Vertical	161	1.19	-	74.86	27.56	4.05	-
PK	2.4982G	58.24	74.00	-15.76	31.60	3	Vertical	161	1.19	-	26.64	27.50	4.10	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2427MHz\_TX



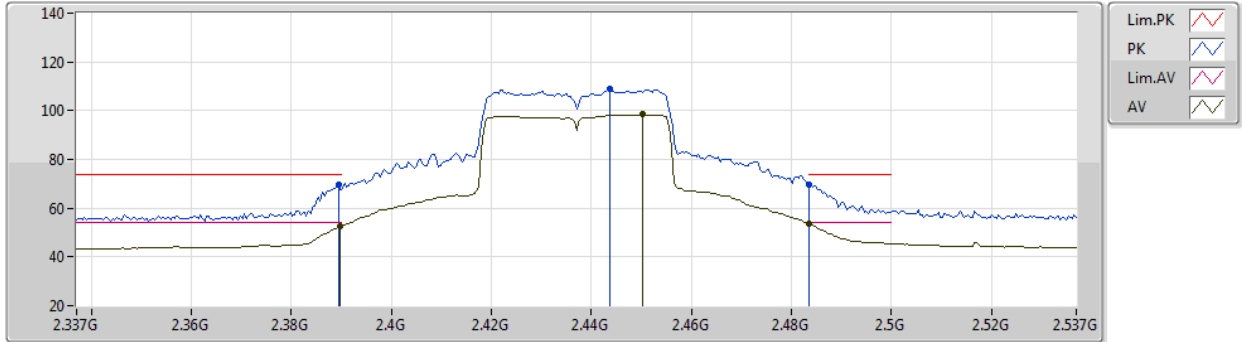
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	47.87	54.00	-6.13	31.63	3	Horizontal	37	1.50	-	16.24	27.64	3.99	-
AV	2.4422G	93.43	Inf	-Inf	31.60	3	Horizontal	37	1.50	-	61.83	27.56	4.04	-
AV	2.4838G	44.76	54.00	-9.24	31.61	3	Horizontal	37	1.50	-	13.15	27.52	4.09	-
PK	2.3886G	62.28	74.00	-11.72	31.64	3	Horizontal	37	1.50	-	30.64	27.65	3.99	-
PK	2.443G	103.75	Inf	-Inf	31.61	3	Horizontal	37	1.50	-	72.14	27.56	4.05	-
PK	2.4906G	58.91	74.00	-15.09	31.61	3	Horizontal	37	1.50	-	27.30	27.51	4.10	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2437MHz\_TX



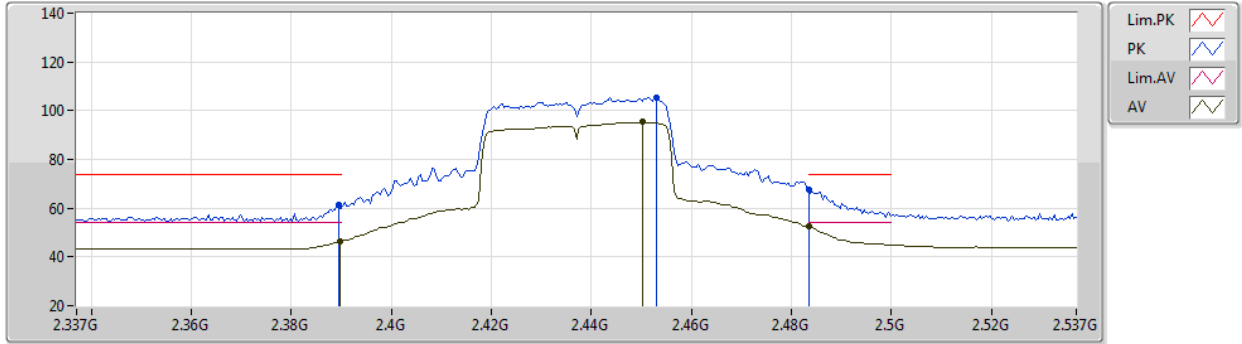
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.45	54.00	-1.55	31.63	3	Vertical	162	1.24	-	20.82	27.64	3.99	-
AV	2.4502G	98.39	Inf	-Inf	31.60	3	Vertical	162	1.24	-	66.79	27.55	4.05	-
AV	2.4835G	53.86	54.00	-0.14	31.61	3	Vertical	162	1.24	-	22.25	27.52	4.09	-
PK	2.3894G	69.40	74.00	-4.60	31.63	3	Vertical	162	1.24	-	37.77	27.64	3.99	-
PK	2.4438G	108.74	Inf	-Inf	31.61	3	Vertical	162	1.24	-	77.13	27.56	4.05	-
PK	2.4835G	69.65	74.00	-4.35	31.61	3	Vertical	162	1.24	-	38.04	27.52	4.09	-



802.11n HT40\_Nss1,(MCS0)\_2TX

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2437MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	46.21	54.00	-7.79	31.63	3	Horizontal	42	1.49	-	14.58	27.64	3.99	-
AV	2.4502G	95.26	Inf	-Inf	31.60	3	Horizontal	42	1.49	-	63.66	27.55	4.05	-
AV	2.4835G	52.39	54.00	-1.61	31.61	3	Horizontal	42	1.49	-	20.78	27.52	4.09	-
PK	2.3894G	61.46	74.00	-12.54	31.63	3	Horizontal	42	1.49	-	29.83	27.64	3.99	-
PK	2.453G	105.50	Inf	-Inf	31.61	3	Horizontal	42	1.49	-	73.89	27.55	4.06	-
PK	2.4835G	67.78	74.00	-6.22	31.61	3	Horizontal	42	1.49	-	36.17	27.52	4.09	-

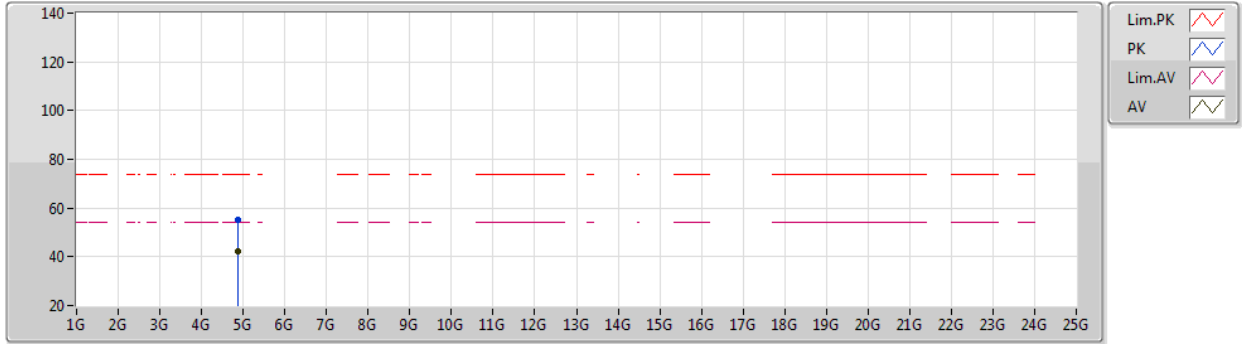




802.11n HT40\_Nss1,(MCS0)\_2TX

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2437MHz\_TX



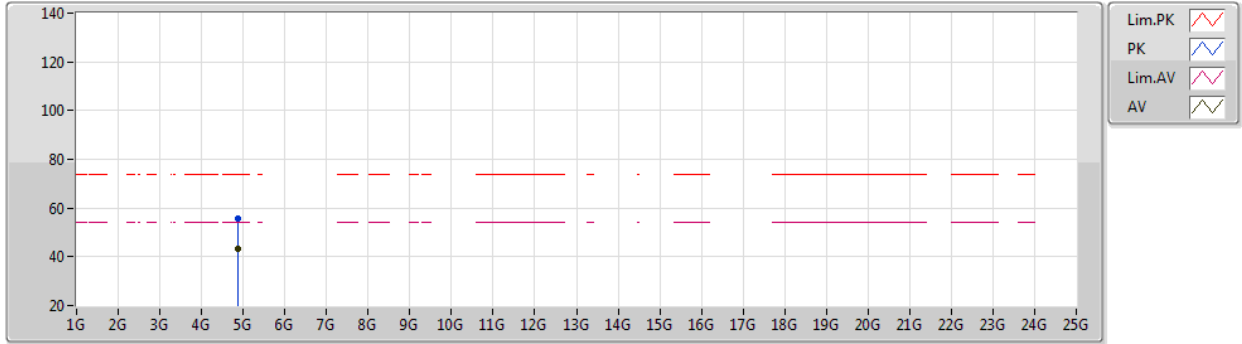
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87408G	42.30	54.00	-11.70	3.75	3	Vertical	259	2.71	-	38.55	31.10	6.70	34.05
PK	4.87368G	55.30	74.00	-18.70	3.75	3	Vertical	259	2.71	-	51.55	31.10	6.70	34.05



802.11n HT40\_Nss1,(MCS0)\_2TX

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2437MHz\_TX



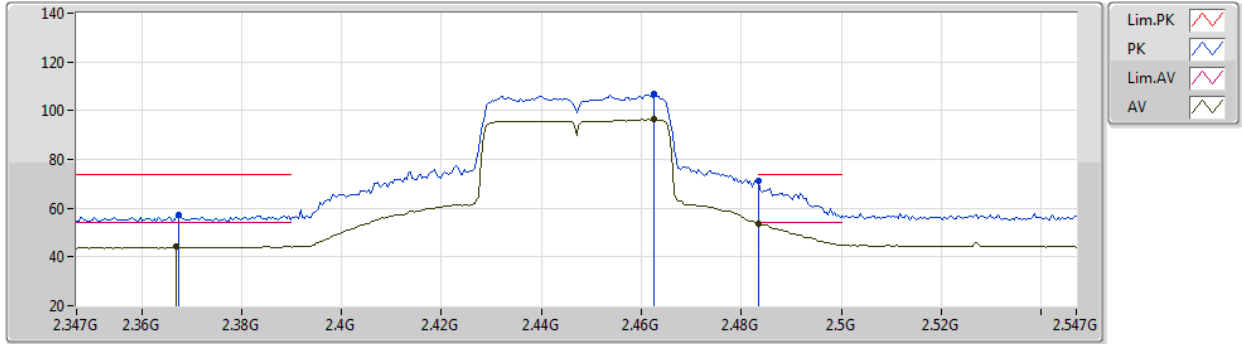
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87404G	43.38	54.00	-10.62	3.75	3	Horizontal	55	1.00	-	39.63	31.10	6.70	34.05
PK	4.87308G	55.57	74.00	-18.43	3.75	3	Horizontal	55	1.00	-	51.82	31.10	6.70	34.05



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2447MHz\_TX



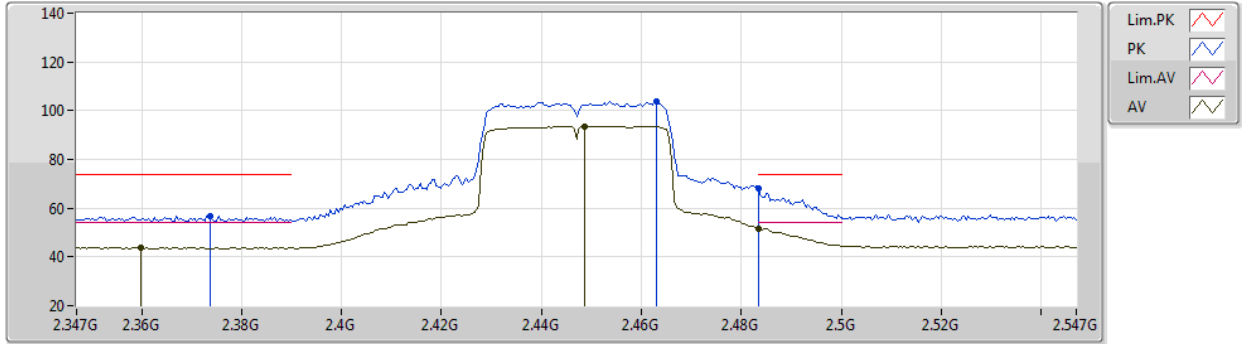
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.367G	44.54	54.00	-9.46	31.70	3	Vertical	161	1.17	-	12.84	27.73	3.97	-
AV	2.4626G	96.39	Inf	-Inf	31.61	3	Vertical	161	1.17	-	64.78	27.54	4.07	-
AV	2.4835G	53.54	54.00	-0.46	31.61	3	Vertical	161	1.17	-	21.93	27.52	4.09	-
PK	2.3674G	56.99	74.00	-17.01	31.70	3	Vertical	161	1.17	-	25.29	27.73	3.97	-
PK	2.4626G	106.76	Inf	-Inf	31.61	3	Vertical	161	1.17	-	75.15	27.54	4.07	-
PK	2.4835G	71.11	74.00	-2.89	31.61	3	Vertical	161	1.17	-	39.50	27.52	4.09	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2447MHz\_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3598G	43.86	54.00	-10.14	31.73	3	Horizontal	40	1.50	-	12.13	27.76	3.97	-
AV	2.4486G	93.70	Inf	-Inf	31.60	3	Horizontal	40	1.50	-	62.10	27.55	4.05	-
AV	2.4835G	51.76	54.00	-2.24	31.61	3	Horizontal	40	1.50	-	20.15	27.52	4.09	-
PK	2.3738G	56.80	74.00	-17.20	31.68	3	Horizontal	40	1.50	-	25.12	27.70	3.98	-
PK	2.463G	103.82	Inf	-Inf	31.61	3	Horizontal	40	1.50	-	72.21	27.54	4.07	-
PK	2.4835G	68.31	74.00	-5.69	31.61	3	Horizontal	40	1.50	-	36.70	27.52	4.09	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2452MHz\_TX



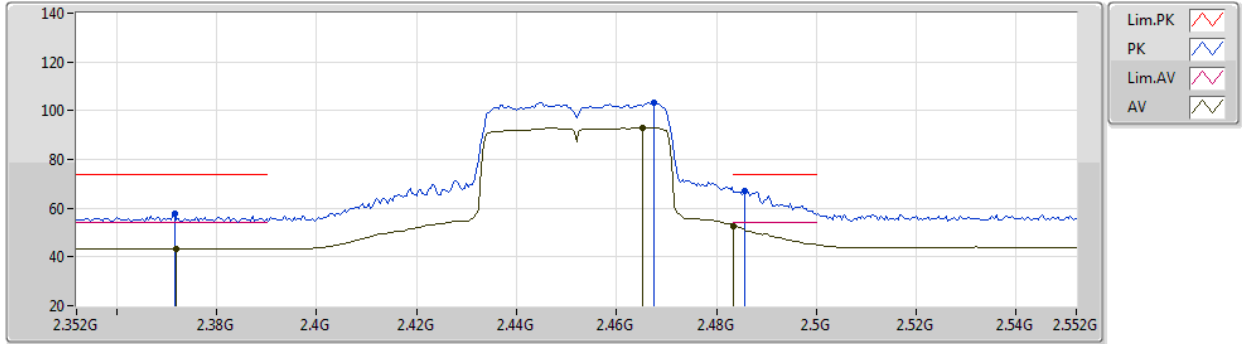
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.372G	44.40	54.00	-9.60	31.69	3	Vertical	160	1.15	-	12.71	27.71	3.98	-
AV	2.4648G	95.46	Inf	-Inf	31.61	3	Vertical	160	1.15	-	63.85	27.54	4.07	-
AV	2.4835G	53.86	54.00	-0.14	31.61	3	Vertical	160	1.15	-	22.25	27.52	4.09	-
PK	2.372G	57.92	74.00	-16.08	31.69	3	Vertical	160	1.15	-	26.23	27.71	3.98	-
PK	2.468G	105.92	Inf	-Inf	31.60	3	Vertical	160	1.15	-	74.32	27.53	4.07	-
PK	2.4835G	67.93	74.00	-6.07	31.61	3	Vertical	160	1.15	-	36.32	27.52	4.09	-



802.11n HT40\_Nss1,(MCS0)\_2TX

10/03/2020

2452MHz\_TX



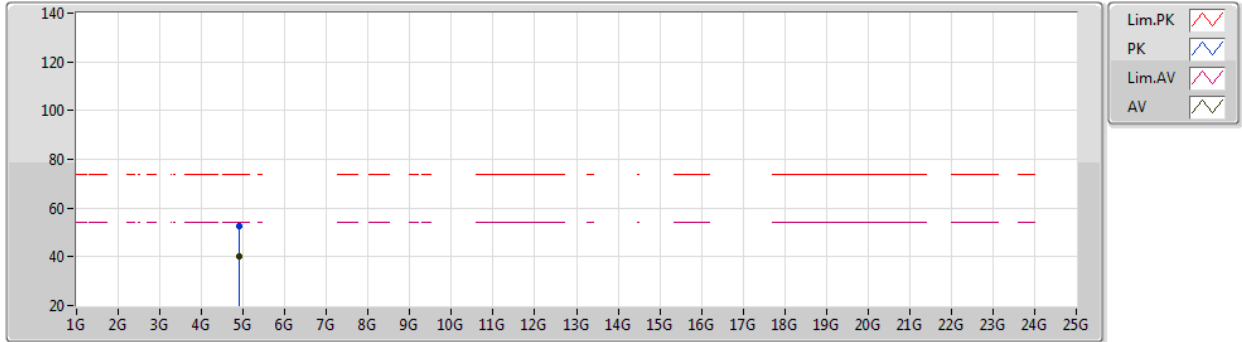
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.372G	43.52	54.00	-10.48	31.69	3	Horizontal	42	1.50	-	11.83	27.71	3.98	-
AV	2.4652G	93.03	Inf	-Inf	31.60	3	Horizontal	42	1.50	-	61.43	27.53	4.07	-
AV	2.4835G	52.64	54.00	-1.36	31.61	3	Horizontal	42	1.50	-	21.03	27.52	4.09	-
PK	2.3716G	57.87	74.00	-16.13	31.69	3	Horizontal	42	1.50	-	26.18	27.71	3.98	-
PK	2.4676G	103.16	Inf	-Inf	31.60	3	Horizontal	42	1.50	-	71.56	27.53	4.07	-
PK	2.4856G	66.95	74.00	-7.05	31.60	3	Horizontal	42	1.50	-	35.35	27.51	4.09	-



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2452MHz\_TX



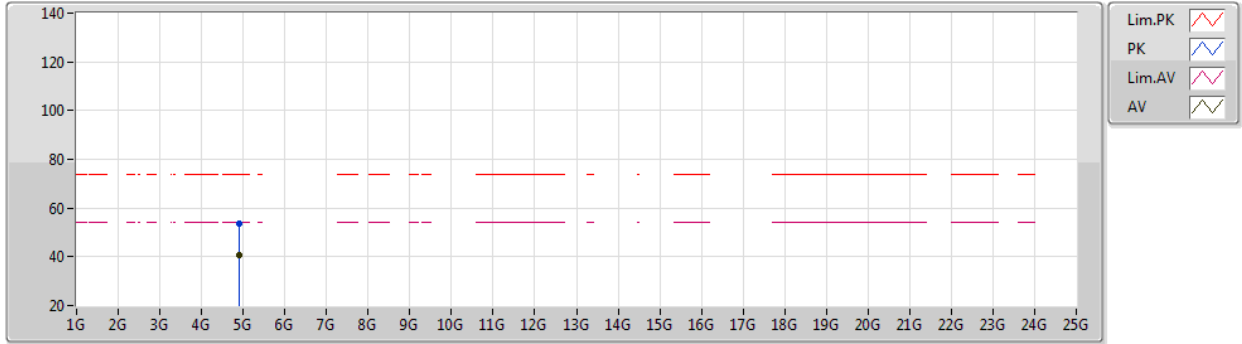
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90404G	40.35	54.00	-13.65	3.79	3	Vertical	259	2.55	-	36.56	31.12	6.72	34.05
PK	4.90372G	52.75	74.00	-21.25	3.78	3	Vertical	259	2.55	-	48.97	31.11	6.72	34.05



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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90408G	40.93	54.00	-13.07	3.79	3	Horizontal	55	1.04	-	37.14	31.12	6.72	34.05
PK	4.9038G	53.63	74.00	-20.37	3.79	3	Horizontal	55	1.04	-	49.84	31.12	6.72	34.05