



# RADIO TEST REPORT

FCC ID : RAXKVD21  
Equipment : 5G Gateway  
Brand Name : T-Mobile  
Model Name : KVD21  
Applicant : Arcadyan Technology Corporation  
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan  
Manufacturer : Arcadyan Technology Corporation  
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan  
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 02, 2021, and testing was started from Oct. 05, 2021 and completed on Oct. 20, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Cliff Chang

**Sporton International Inc. Hsinchu Laboratory**

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



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### Summary of Test Result

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

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by: Sam Chen**

**Report Producer: Jessie Wei**



# 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), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	4TX
2.4-2.4835GHz	802.11g	20	4TX
2.4-2.4835GHz	802.11n HT20	20	4TX
2.4-2.4835GHz	802.11n HT20-BF	20	4TX
2.4-2.4835GHz	VHT20	20	4TX
2.4-2.4835GHz	VHT20-BF	20	4TX
2.4-2.4835GHz	802.11ax HEW20	20	4TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	4TX
2.4-2.4835GHz	802.11n HT40	40	4TX
2.4-2.4835GHz	802.11n HT40-BF	40	4TX
2.4-2.4835GHz	VHT40	40	4TX
2.4-2.4835GHz	VHT40-BF	40	4TX
2.4-2.4835GHz	802.11ax HEW40	40	4TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	4TX

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.
- ♦ HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



**1.1.2 Antenna Information**

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth					
1	1	1	-	Maglayers	PCA-2510-25GC6-A1	Dipole	I-PEX	Note1
2	2	2	-	Maglayers	PCA-2510-25GC6-A2	Dipole	I-PEX	
3	3	3	-	Maglayers	PCA-2510-25GC6-A3	Dipole	I-PEX	
4	4	4	-	Maglayers	PCA-2510-25GC6-A4	Dipole	I-PEX	
5	-	-	1	Maglayers	PCA-2510-2G4C6-A1	Dipole	I-PEX	

Note 1:

Ant.	Port			Antenna Gain (dBi)					
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	Bluetooth
1	1	1	-	0.92	2.86	2.91	2.39	1.9	-
2	2	2	-	3.78	3.48	4.07	4.84	5.09	-
3	3	3	-	4.13	3.52	3.1	2.85	2.93	-
4	4	4	-	3.61	1.42	2.74	3.1	2.58	-
5	-	-	1	-	-	-	-	-	4.39

Note 2: The above information was declared by manufacturer.

**For WLAN 2.4GHz:**

**For IEEE 802.11b/g/n/VHT/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For WLAN 5GHz:**

**For IEEE 802.11a/n/ac/ax mode (4TX/4RX):**

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.

**For Bluetooth (1TX/1RX):**

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



**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.86	0.66	1.249m	1k
802.11g	0.842	0.75	1.058m	1k
802.11ax HEW20	0.824	0.84	946.875u	3k
802.11ax HEW40	0.823	0.85	938.75u	3k

Note:

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

**1.1.4 EUT Operational Condition**

<b>EUT Power Type</b>	From Power Adapter			
<b>Beamforming Function</b>	<input checked="" type="checkbox"/>	With beamforming	<input type="checkbox"/>	Without beamforming
	The product has beamforming function for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz.			
<b>Function</b>	<input checked="" type="checkbox"/>	Point-to-multipoint	<input type="checkbox"/>	Point-to-point
<b>Test Software Version</b>	QATool.Dbg_0.0.2.29			

Note: The above information was declared by manufacturer.



### 1.2 Applicable Standards

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

- ◆ 47 CFR FCC Part 15.247
- ◆ ANSI C63.10-2013

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

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

### 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	Jay Lo	23.1~24.6 / 55~57	Oct. 09, 2021~ Oct. 20, 2021
Radiated below 1GHz	03CH05-CB	Kevin Huang	24.5~25.6 / 56~59	Oct. 05, 2021~ Oct. 20, 2021
Radiated above 1GHz	03CH02-CB	Kevin Huang	24.2~26.1 / 55~58	Oct. 05, 2021~ Oct. 20, 2021
Radiated Co-Location	03CH05-CB	Kevin Huang	24.5~25.6 / 56~59	Oct. 05, 2021~ Oct. 20, 2021
AC Conduction	CO01-CB	Peter Wu	21~23 / 55~57	Oct. 20, 2021





## 1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	2.0 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.5 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.5 dB	Confidence levels of 95%
Bandwidth Measurement	0.9%	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

<For Non-beamforming mode>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	21
2437MHz	21
2462MHz	20.5
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	19.5
2417MHz	22
2437MHz	22
2457MHz	20.5
2462MHz	17.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	17
2417MHz	19.5
2437MHz	21.5
2457MHz	17
2462MHz	16
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	15.5
2437MHz	16.5
2452MHz	12.5



**<For Beamforming mode>**

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	17
2417MHz	19.5
2437MHz	20.5
2457MHz	17
2462MHz	16
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	15.5
2437MHz	16.5
2452MHz	12.5

Note1: Evaluated HEW20/HEW40 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.  
Note2: The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	EUT + Adapter – WLAN 2.4GHz
2	EUT + Adapter – WLAN 5GHz
3	EUT + Adapter – Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	

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

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emissions in Restricted Frequency Bands
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	CTX The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis + Adapter – WLAN 2.4GHz
2	EUT in Y axis + Adapter – WLAN 5GHz
3	EUT in Y axis + Adapter – Bluetooth
For operating mode 2 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis



<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Radiated Emission Co-location
<b>Test Condition</b>	Radiated measurement
<b>Operating Mode</b>	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in Y axis - WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth + WWAN
Refer to Sporton Test Report No.: FA190215 for Co-location RF Exposure Evaluation.	



### 2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter	LUCENT TRANS	1A78	INPUT: 100-240V~1.2A, 50/60Hz OUTPUT: 5.0V, 3.0A, 15.0W 9.0V, 3.0A, 27.0W 15.0V, 3.0A, 45.0W

### 2.5 Support Equipment

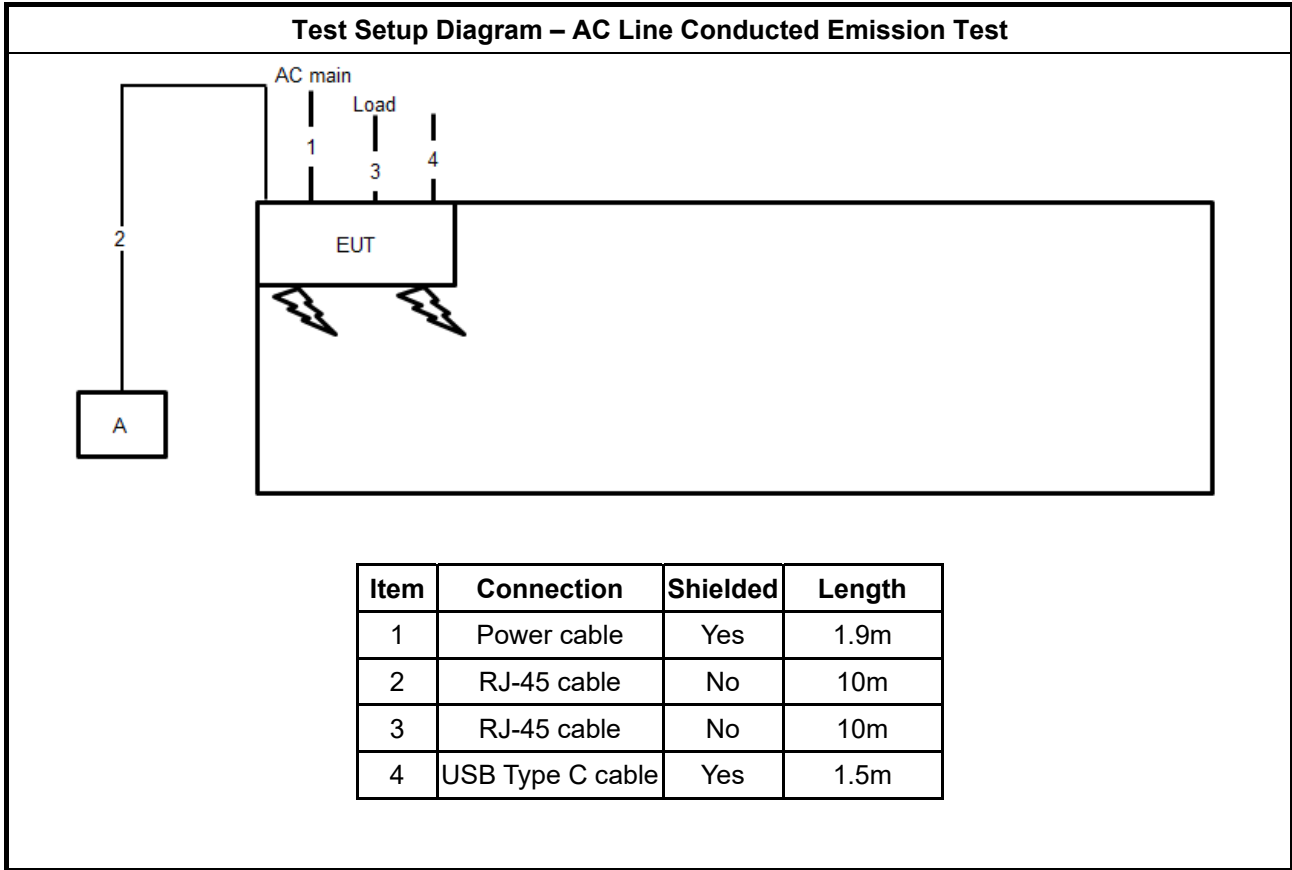
For AC Conduction:

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

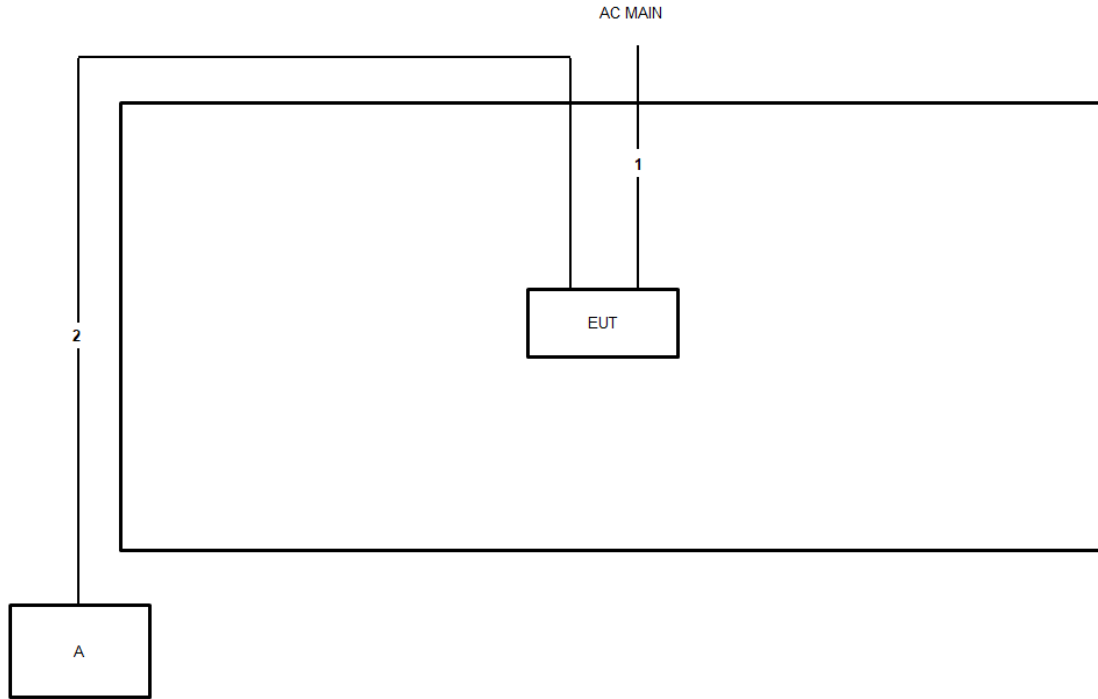
For Radiated and RF Conducted:

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

## 2.6 Test Setup Diagram



**Test Setup Diagram - Radiated Test**



Item	Connection	Shielded	Length
1	Power cable	Yes	1.9m
2	RJ-45 cable	No	10m





### 3 Transmitter Test Result

#### 3.1 AC Power-line Conducted Emissions

##### 3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

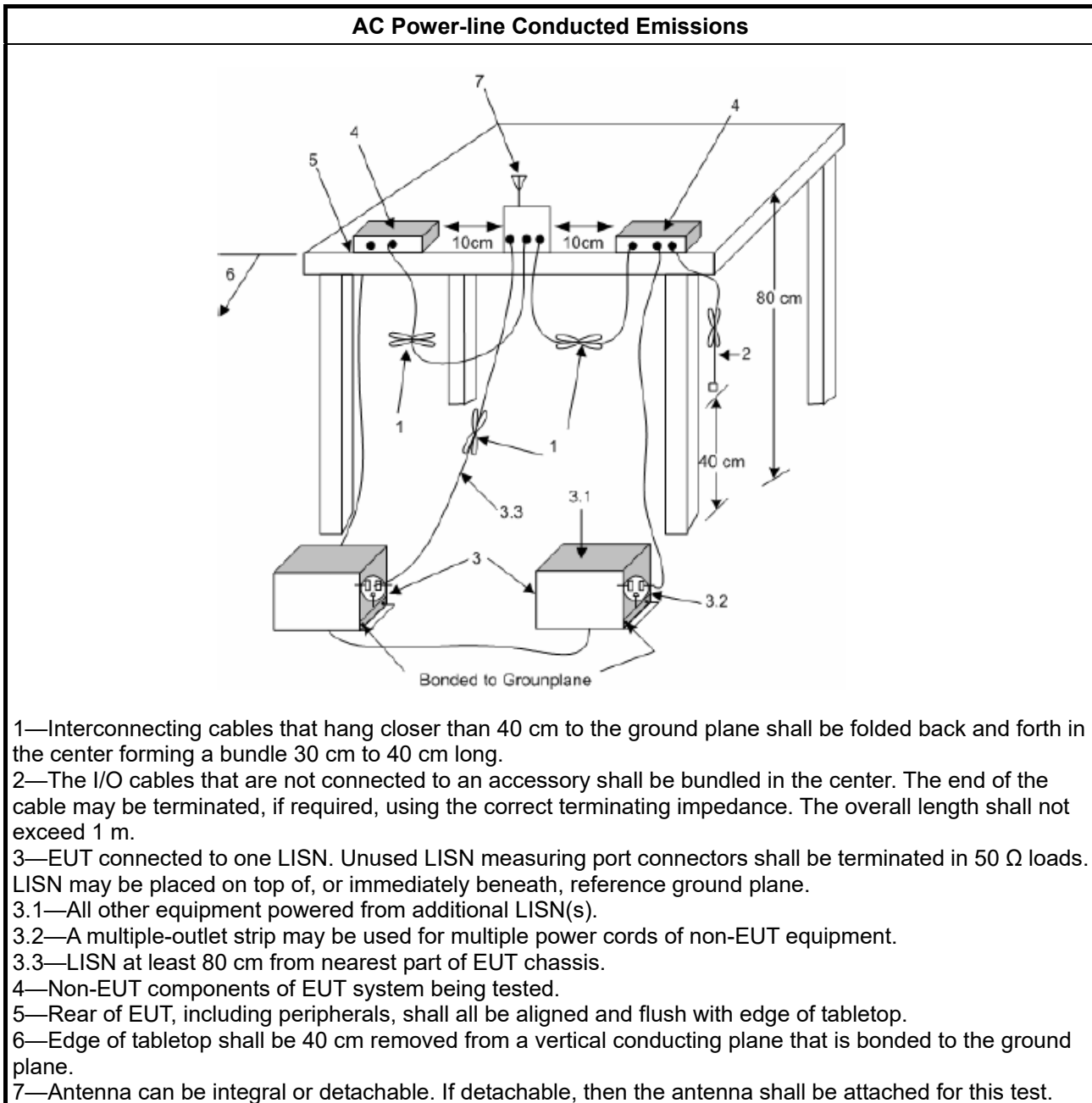
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

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

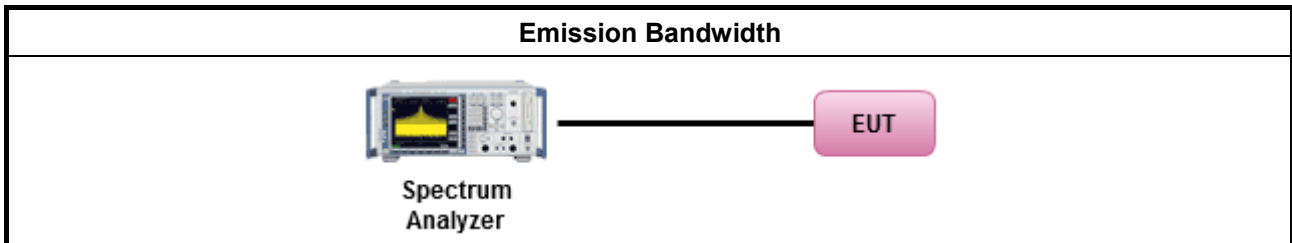
#### 3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> <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):</li> </ul>
	<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> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: 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>- 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>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

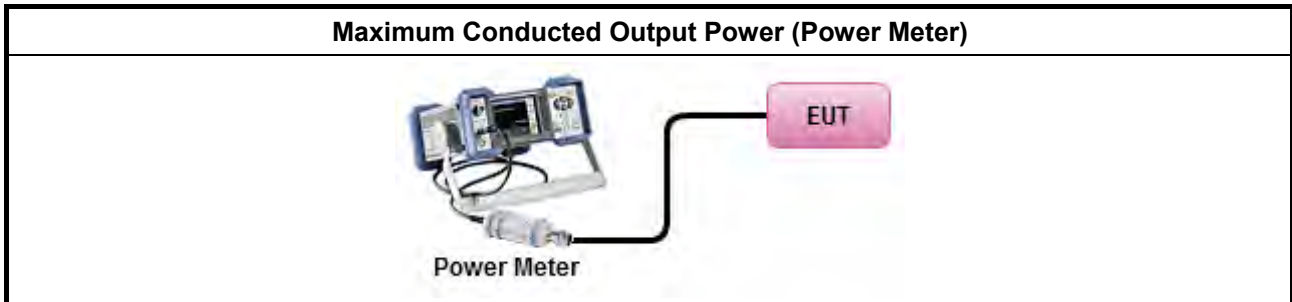
Refer a test equipment and calibration data table in this test report.



**3.3.3 Test Procedures**

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
<ul style="list-style-type: none"> <li>▪ Maximum Conducted Output Power</li> </ul>	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
<ul style="list-style-type: none"> <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 FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.</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>

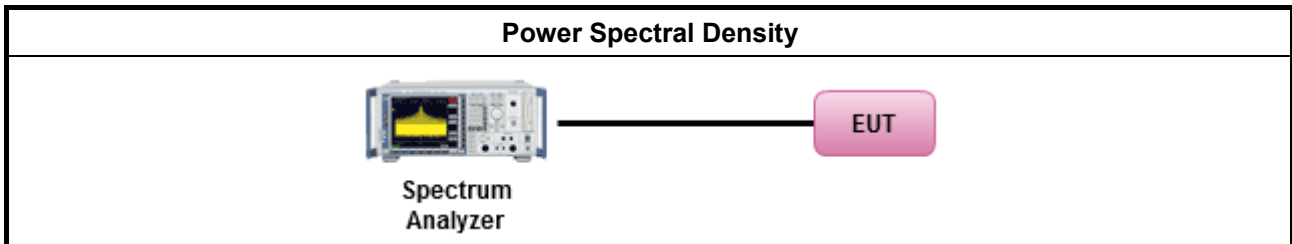
#### 3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method 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:                 <table border="1"> <tbody> <tr> <td> <input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.                 </td> </tr> <tr> <td> <input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,                 </td> </tr> <tr> <td> <input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                 </td> </tr> </tbody> </table> </li> </ul> </li> </ul>	<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.	<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
<input checked="" type="checkbox"/> Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.			
<input type="checkbox"/> Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,			
<input type="checkbox"/> Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.			

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



### 3.5 Emissions in Non-restricted Frequency Bands

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

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

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

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

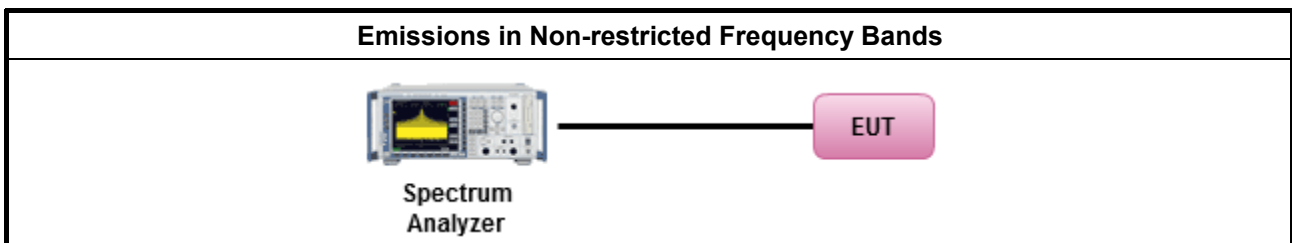
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted 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

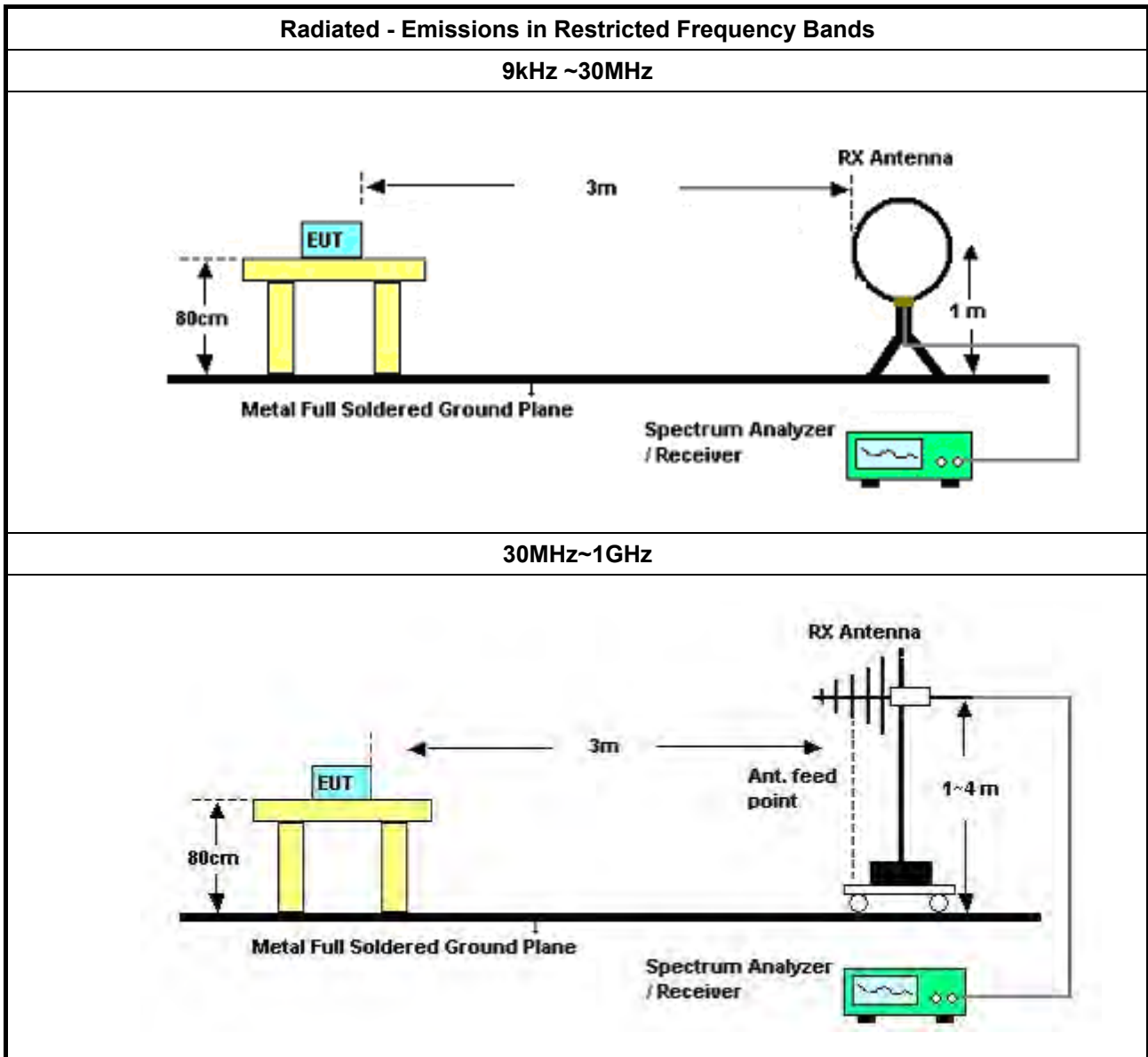
Refer a test equipment and calibration data table in this test report.

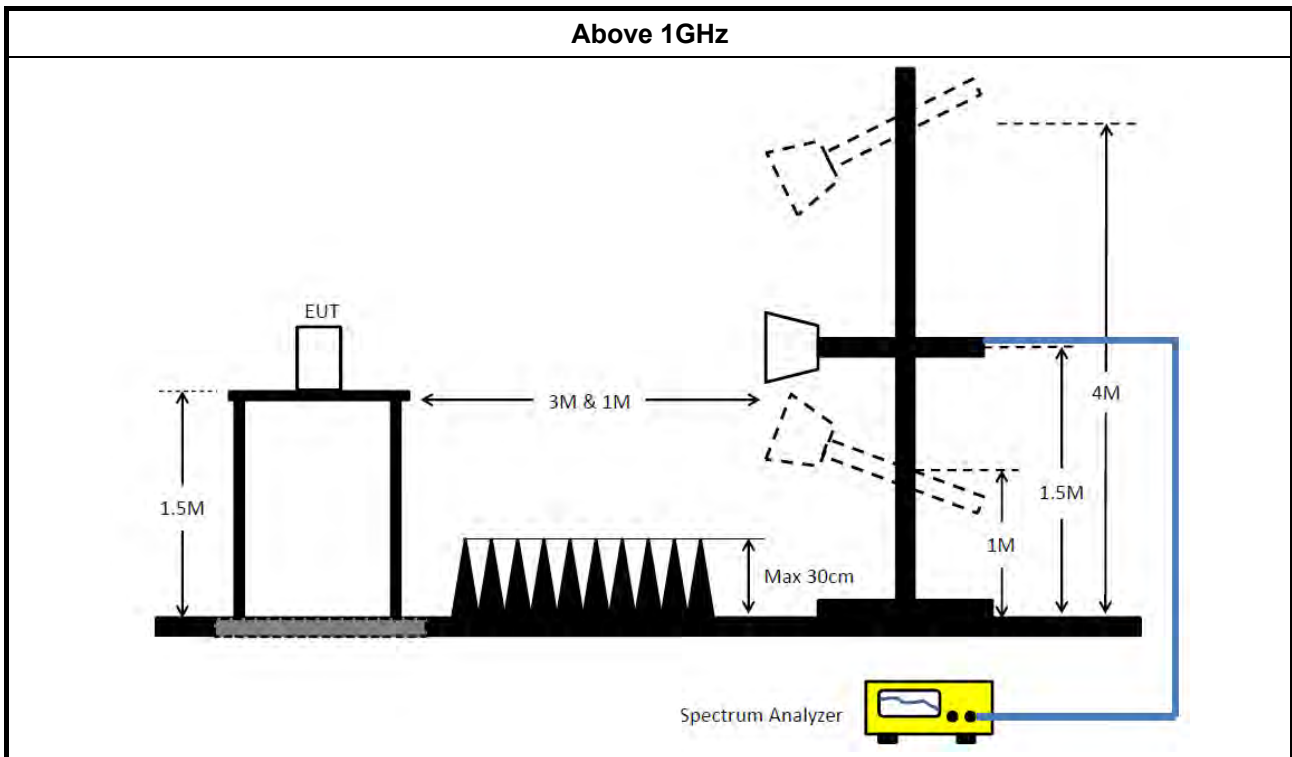


**3.6.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle <math>\geq</math> 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 FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.</li> </ul>
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq$ 98%).
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq$ 1/T).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> <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 FCC KDB 558074 clause 8.7 &amp; C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below:                (1) Measure and sum the spectra across the outputs or                (2) Measure and add 10 log(N) dB             </li> </ul>
	<ul style="list-style-type: none"> <li>▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.</li> </ul>

**3.6.4 Test Setup**





### 3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

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

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 03, 2021	Mar. 02, 2022	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Jan. 06, 2021	Jan. 05, 2022	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Mar. 07, 2021	Mar. 06, 2022	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Jan. 30, 2021	Jan. 29, 2022	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 19, 2021	May 18, 2022	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 26, 2021	Mar. 25, 2022	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Sep. 14, 2021	Sep. 13, 2022	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 27, 2021	Apr. 26, 2022	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz 3m	Mar. 27, 2021	Mar. 26, 2022	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	May 04, 2021	May 03, 2022	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH02-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 15, 2020	Oct. 14, 2021	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV40	101903	9kHz ~ 40GHz	Mar. 22, 2021	Mar. 21, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 02, 2021	Aug. 01, 2022	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 17, 2020	Sep. 16, 2021	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

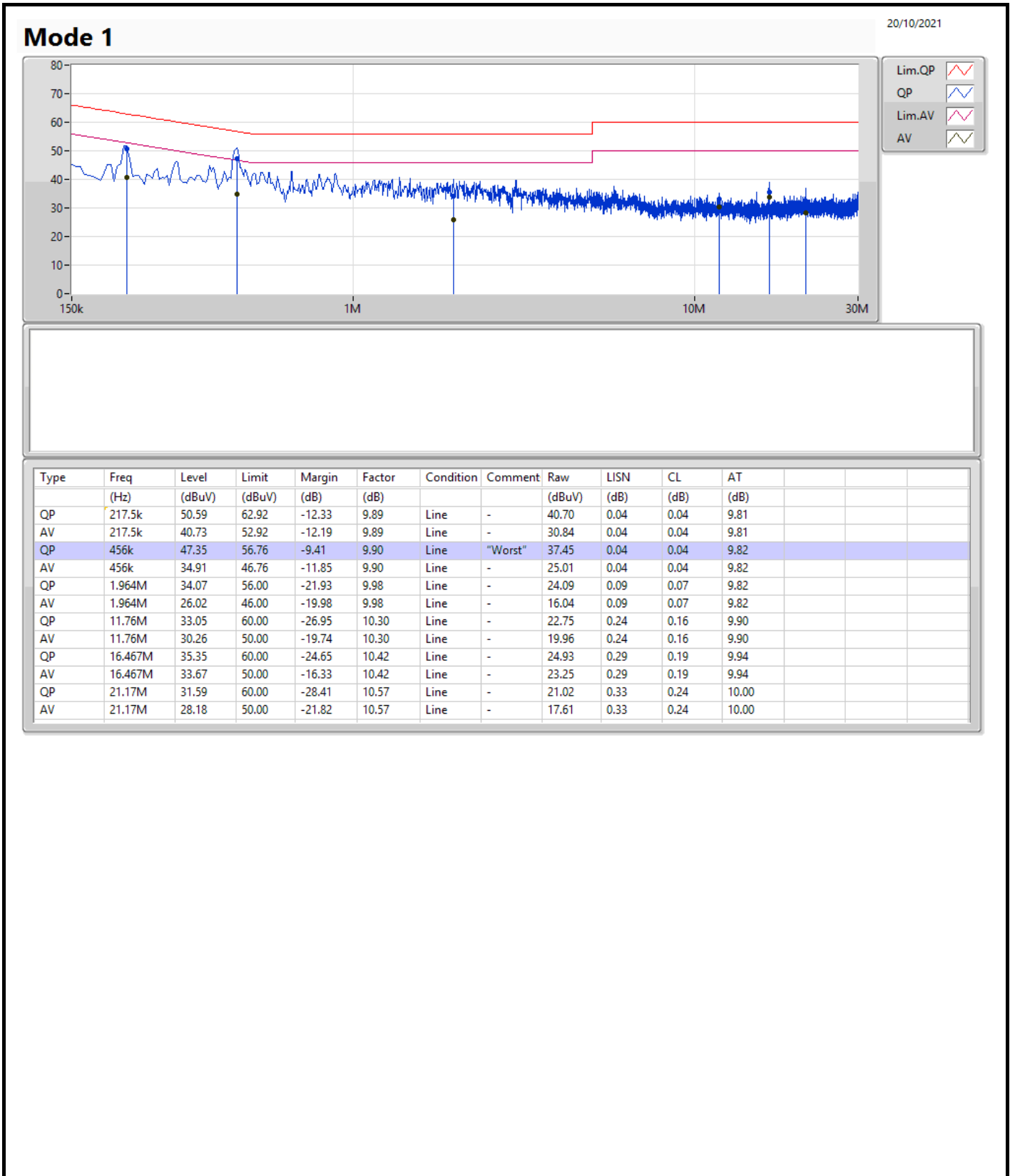
Note: Calibration Interval of instruments listed above is one year.  
NCR means Non-Calibration required.

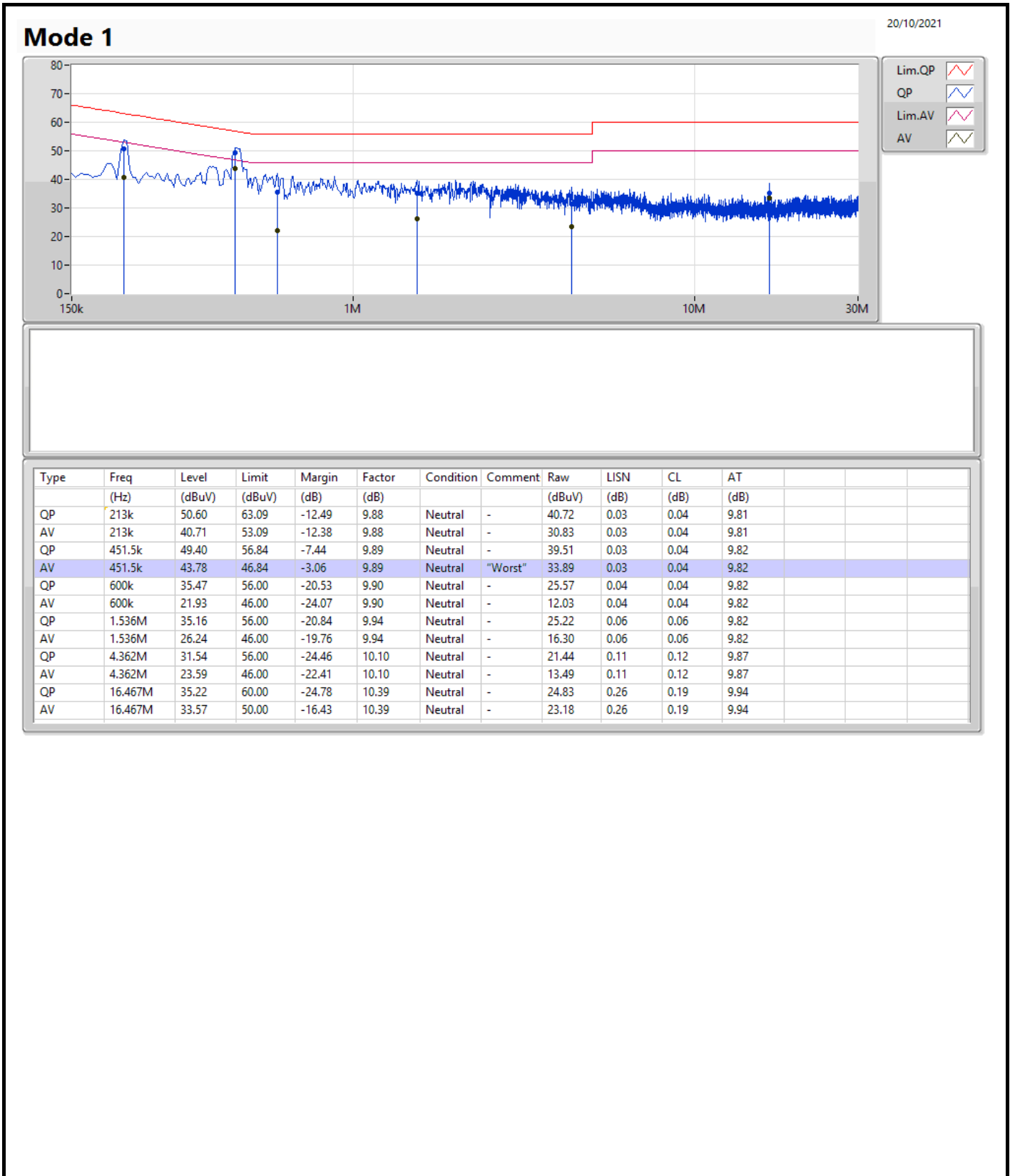


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	451.5k	43.78	46.84	-3.06	Neutral







**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)_4TX	8.525M	12.944M	12M9G1D	7.55M	12.594M
802.11g_Nss1,(6Mbps)_4TX	15.7M	16.917M	16M9D1D	15M	16.342M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.525M	19.14M	19M1D1D	15.7M	18.816M
802.11ax HEW40_Nss1,(MCS0)_4TX	37.65M	37.931M	37M9D1D	33.7M	37.581M

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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	12.844M	8.5M	12.844M	7.55M	12.844M	8.025M	12.819M
2437MHz	Pass	500k	8.025M	12.944M	8.05M	12.844M	8M	12.844M	8.05M	12.944M
2462MHz	Pass	500k	7.55M	12.694M	8M	12.594M	8M	12.619M	7.6M	12.669M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.125M	16.467M	15M	16.467M	15.1M	16.442M	15.7M	16.442M
2437MHz	Pass	500k	15.1M	16.917M	15.125M	16.717M	15.1M	16.692M	15.05M	16.742M
2462MHz	Pass	500k	15.075M	16.392M	15.05M	16.342M	15.1M	16.392M	15.075M	16.392M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.525M	18.841M	18.275M	18.816M	18.5M	18.841M	18.4M	18.866M
2437MHz	Pass	500k	18.475M	19.14M	18.25M	19.14M	18.2M	19.065M	18.4M	19.115M
2462MHz	Pass	500k	17.625M	18.841M	15.7M	18.866M	18.175M	18.866M	16.975M	18.816M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.3M	37.681M	33.85M	37.581M	34.95M	37.631M	33.7M	37.631M
2437MHz	Pass	500k	37.65M	37.931M	37.6M	37.831M	37.65M	37.831M	37.65M	37.881M
2452MHz	Pass	500k	36M	37.631M	34.35M	37.731M	37.5M	37.731M	34.95M	37.631M

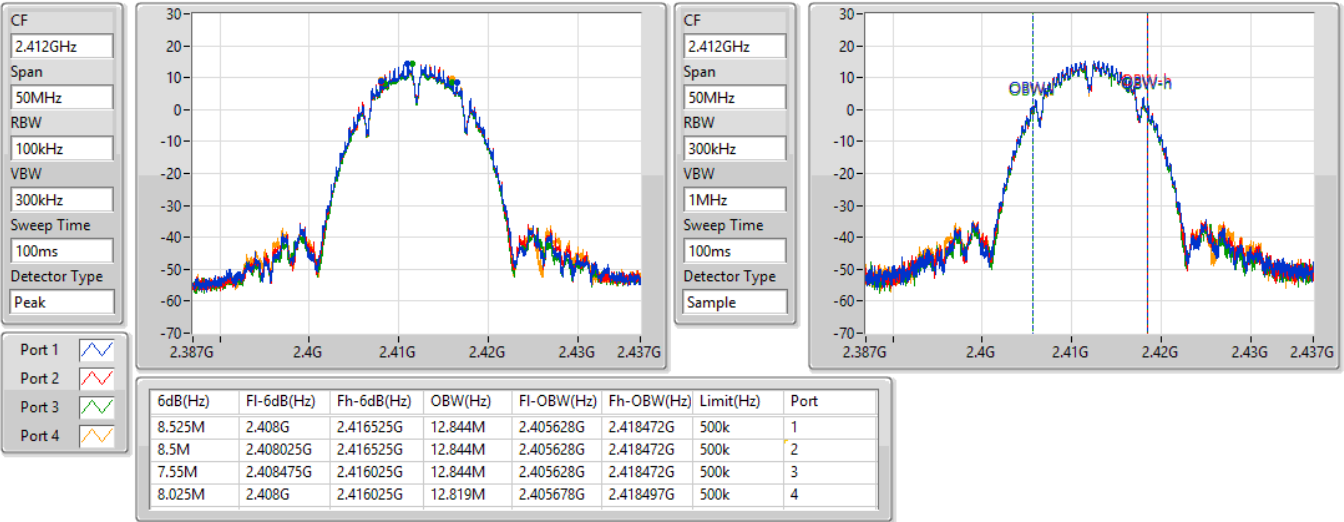
Port X-N dB = Port X 6dB down bandwidth;  
Port X-OBW = Port X 99% occupied bandwidth

802.11b\_Nss1,(1Mbps)\_4TX

EBW

2412MHz

10/10/2021

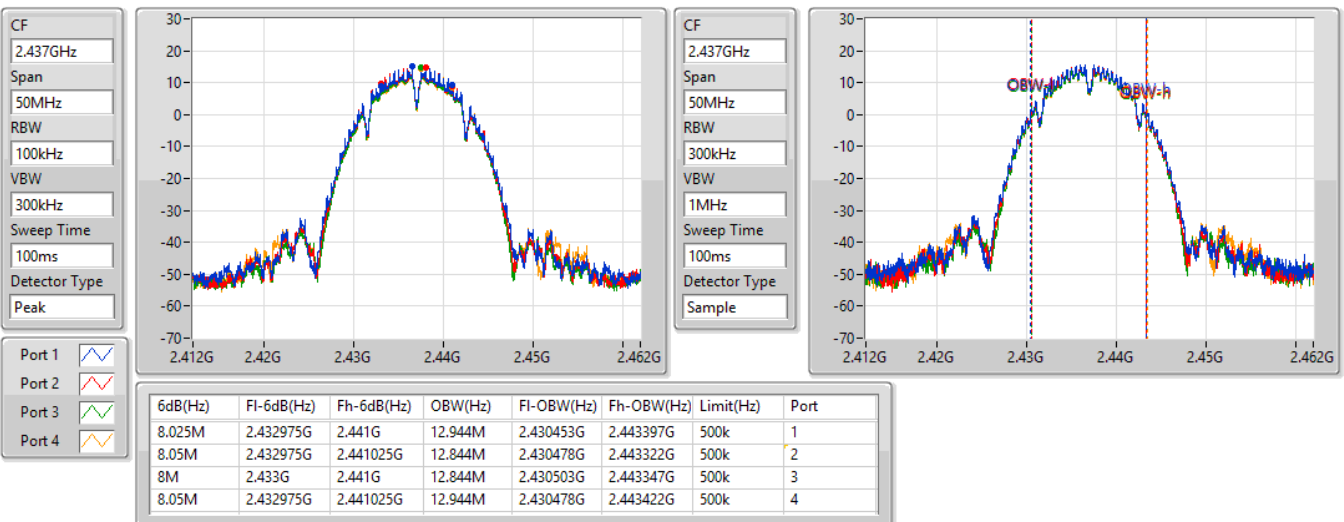


802.11b\_Nss1,(1Mbps)\_4TX

EBW

2437MHz

10/10/2021

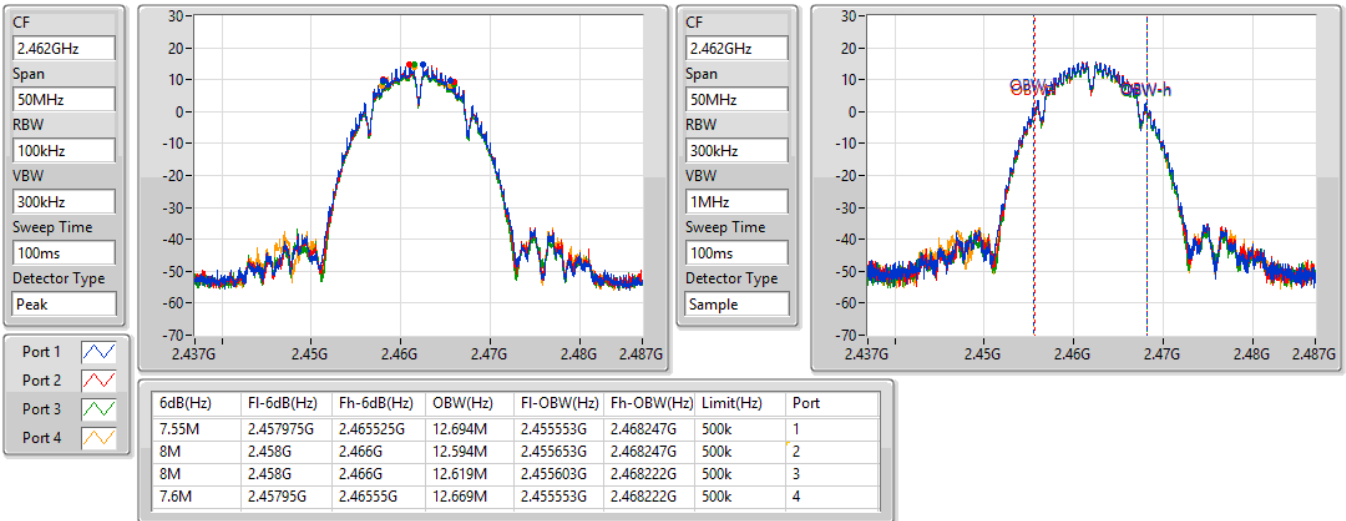


### 802.11b\_Nss1,(1Mbps)\_4TX

EBW

2462MHz

10/10/2021

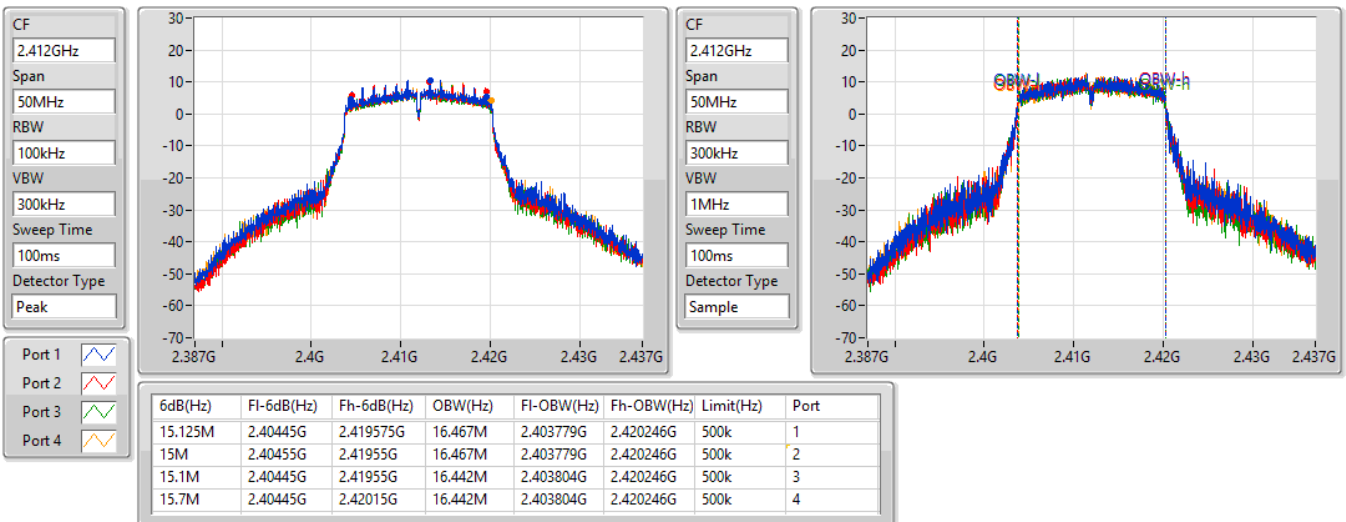


### 802.11g\_Nss1,(6Mbps)\_4TX

EBW

2412MHz

10/10/2021

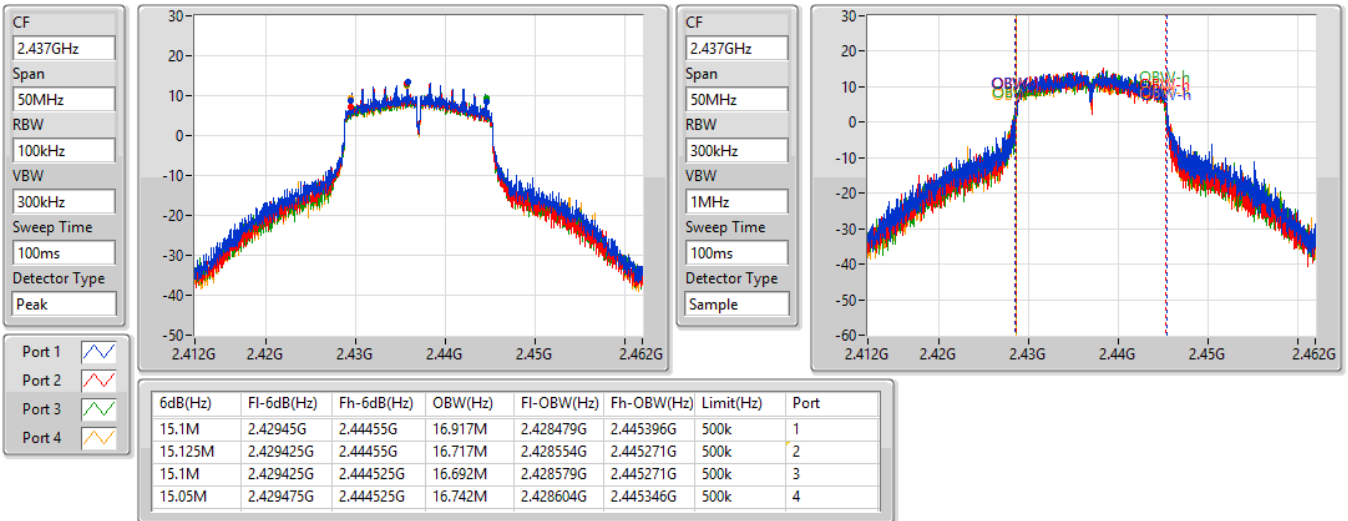


### 802.11g\_Nss1,(6Mbps)\_4TX

EBW

2437MHz

10/10/2021

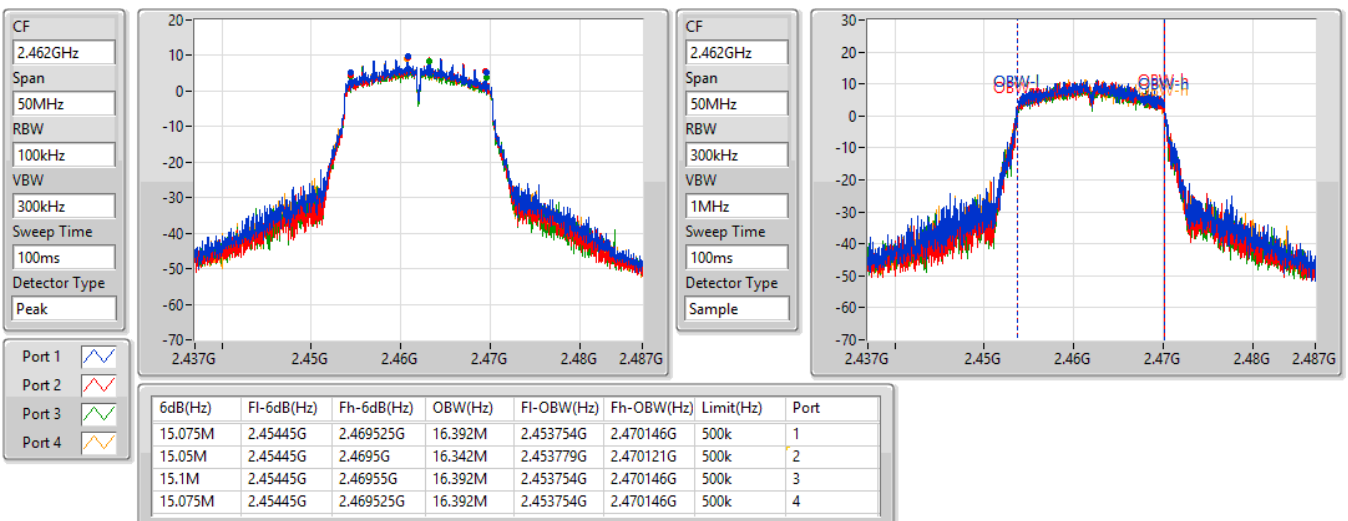


### 802.11g\_Nss1,(6Mbps)\_4TX

EBW

2462MHz

10/10/2021

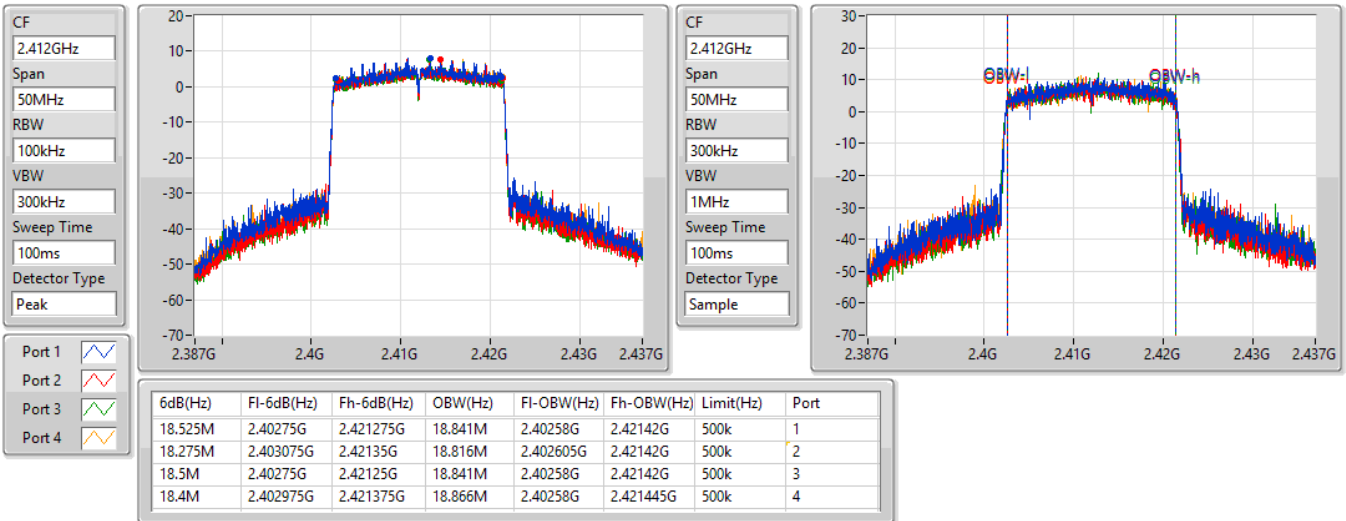


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

2412MHz

10/10/2021

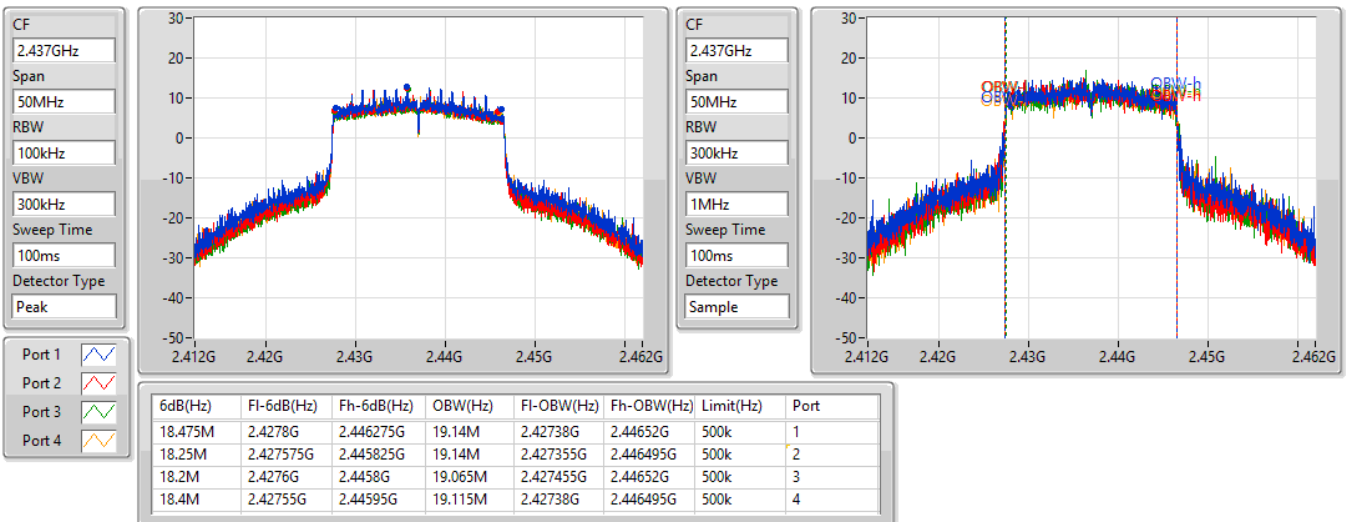


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

2437MHz

10/10/2021



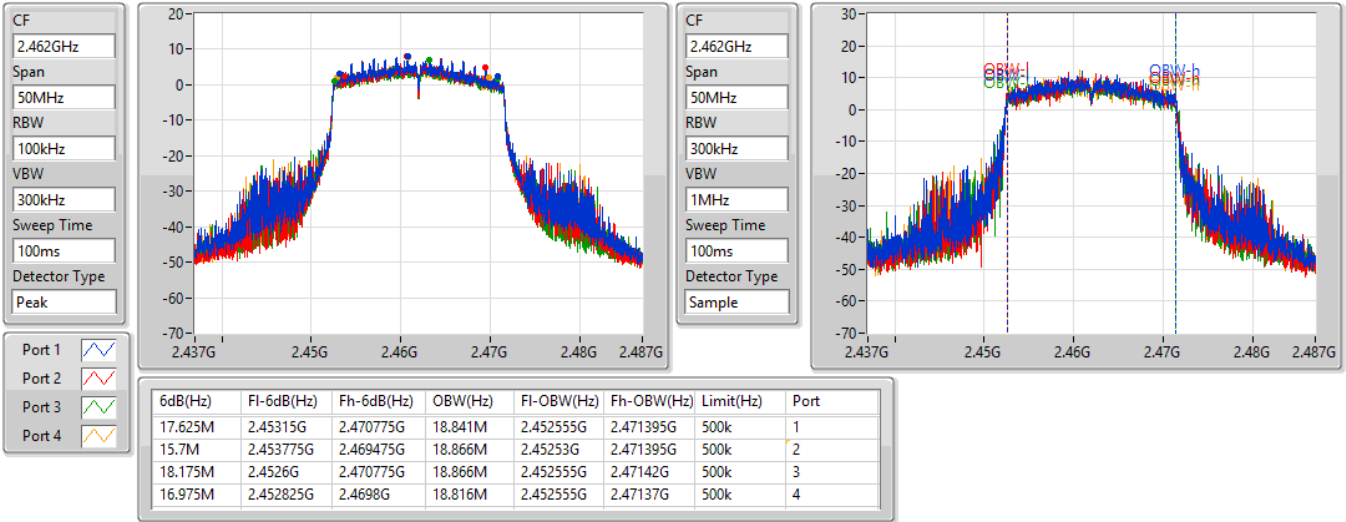


802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

2462MHz

10/10/2021

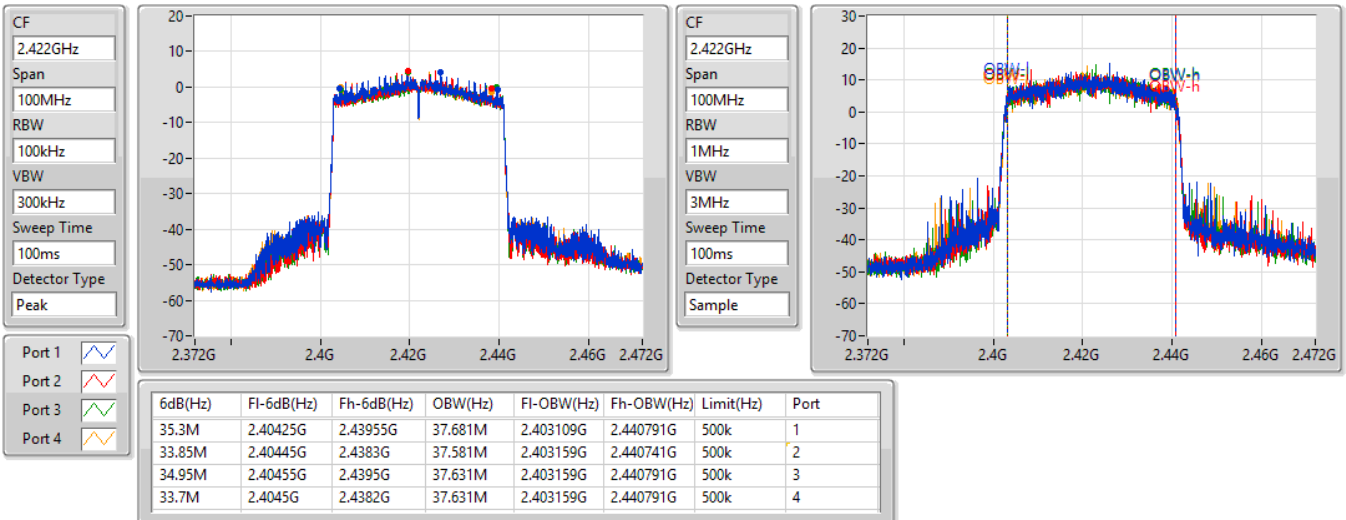


802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

2422MHz

10/10/2021



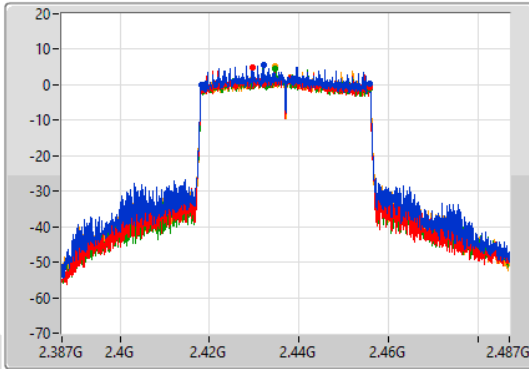
802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

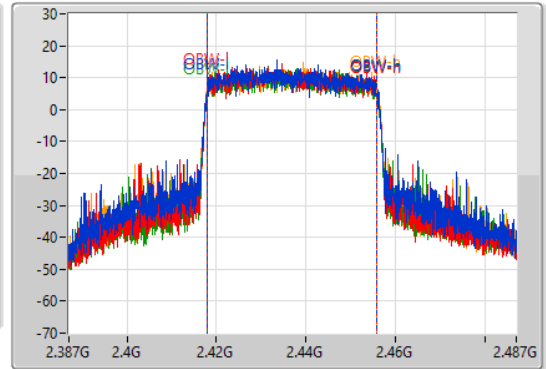
2437MHz

10/10/2021

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



CF  
2.437GHz  
Span  
100MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Sample



Port 1  
Port 2  
Port 3  
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.65M	2.4181G	2.45575G	37.931M	2.418009G	2.455941G	500k	1
37.6M	2.4182G	2.4558G	37.831M	2.418009G	2.455841G	500k	2
37.65M	2.4182G	2.45585G	37.831M	2.418009G	2.455841G	500k	3
37.65M	2.4182G	2.45585G	37.881M	2.418009G	2.455891G	500k	4

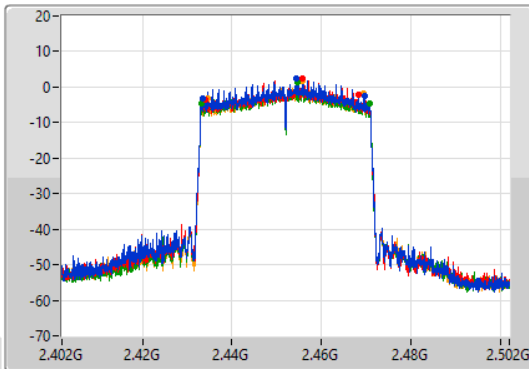
802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

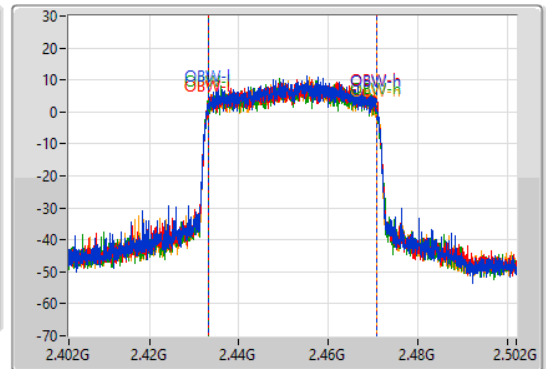
2452MHz

10/10/2021

CF  
2.452GHz  
Span  
100MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
2.452GHz  
Span  
100MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Sample



Port 1  
Port 2  
Port 3  
Port 4

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36M	2.43355G	2.46955G	37.631M	2.433109G	2.470741G	500k	1
34.35M	2.43395G	2.4683G	37.731M	2.433109G	2.470841G	500k	2
37.5M	2.4332G	2.4707G	37.731M	2.433059G	2.470791G	500k	3
34.95M	2.43455G	2.4695G	37.631M	2.433159G	2.470791G	500k	4



**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.70	0.93325
802.11g_Nss1,(6Mbps)_4TX	29.95	0.98855
802.11ax HEW20_Nss1,(MCS0)_4TX	29.87	0.97051
802.11ax HEW40_Nss1,(MCS0)_4TX	25.82	0.38194



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.13	23.72	23.77	23.81	23.35	29.69	30.00
2437MHz	Pass	4.13	24.03	24.02	23.35	23.26	29.70	30.00
2462MHz	Pass	4.13	23.91	23.89	23.05	23.29	29.57	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.13	21.75	21.50	21.24	21.44	27.51	30.00
2417MHz	Pass	4.13	24.06	24.00	23.63	24.01	29.95	30.00
2437MHz	Pass	4.13	24.22	24.00	23.63	23.64	29.90	30.00
2457MHz	Pass	4.13	23.79	23.53	23.15	23.37	29.49	30.00
2462MHz	Pass	4.13	20.51	20.28	19.81	20.08	26.20	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	4.13	19.73	19.58	19.34	19.76	25.63	30.00
2417MHz	Pass	4.13	22.50	22.33	21.95	22.13	28.25	30.00
2437MHz	Pass	4.13	24.21	23.95	23.58	23.61	29.87	30.00
2457MHz	Pass	4.13	21.25	20.75	20.44	20.78	26.84	30.00
2462MHz	Pass	4.13	19.51	19.20	18.80	18.63	25.07	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	4.13	18.38	18.27	17.94	18.20	24.22	30.00
2437MHz	Pass	4.13	20.26	19.73	19.47	19.69	25.82	30.00
2452MHz	Pass	4.13	16.28	16.14	15.47	15.80	21.95	30.00

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



**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	28.80	0.75858
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	25.82	0.38194



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.14	19.73	19.58	19.34	19.76	25.63	28.86
2417MHz	Pass	7.14	22.5	22.33	21.95	22.13	28.25	28.86
2437MHz	Pass	7.14	23.09	22.87	22.45	22.68	28.80	28.86
2457MHz	Pass	7.14	21.25	20.75	20.44	20.78	26.84	28.86
2462MHz	Pass	7.14	19.51	19.2	18.8	18.63	25.07	28.86
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.14	18.38	18.27	17.94	18.2	24.22	28.86
2437MHz	Pass	7.14	20.26	19.73	19.47	19.69	25.82	28.86
2452MHz	Pass	7.14	16.28	16.14	15.47	15.8	21.95	28.86

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	0.31
802.11g_Nss1,(6Mbps)_4TX	2.09
802.11ax HEW20_Nss1,(MCS0)_4TX	1.96
802.11ax HEW40_Nss1,(MCS0)_4TX	-5.79

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.14	-7.03	-6.61	-6.70	-6.52	-0.75	6.86
2437MHz	Pass	7.14	-4.79	-5.86	-6.77	-6.84	-0.04	6.86
2462MHz	Pass	7.14	-4.59	-5.88	-5.94	-6.59	0.31	6.86
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.14	-2.09	-3.38	-4.72	-4.51	0.00	6.86
2437MHz	Pass	7.14	0.01	-2.49	-1.87	-0.97	2.09	6.86
2462MHz	Pass	7.14	-5.53	-5.31	-5.21	-5.34	-1.35	6.86
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	7.14	-6.10	-7.76	-7.75	-6.59	-1.79	6.86
2437MHz	Pass	7.14	-3.45	-2.36	-2.59	-2.61	1.96	6.86
2462MHz	Pass	7.14	-5.93	-7.36	-6.63	-7.89	-3.24	6.86
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	7.14	-10.35	-11.16	-10.96	-10.17	-6.74	6.86
2437MHz	Pass	7.14	-8.95	-9.27	-9.41	-9.84	-5.79	6.86
2452MHz	Pass	7.14	-12.93	-12.37	-13.56	-12.72	-9.04	6.86

DG = Directional Gain; RBW = 3kHz;  
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;



### 802.11b\_Nss1,(1Mbps)\_4TX

### PSD

#### 2412MHz

10/10/2021

CF  
2.412GHz

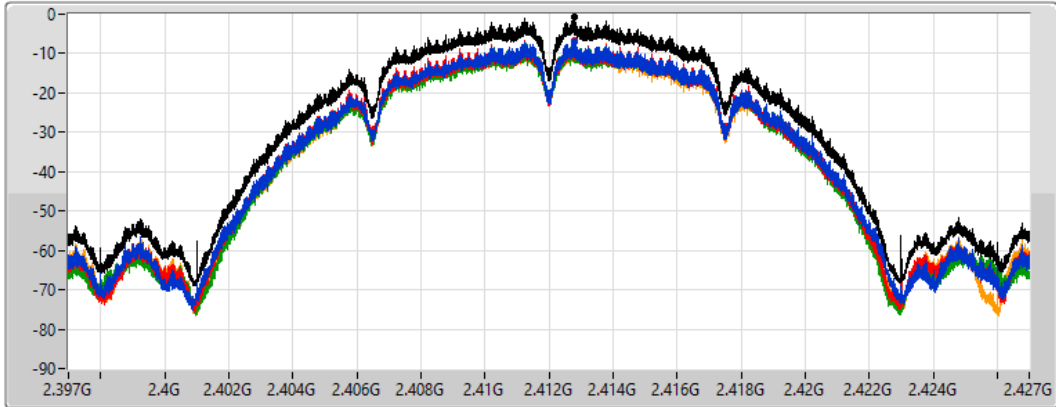
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.75	-0.75	-7.03	-6.61	-6.70	-6.52

### 802.11b\_Nss1,(1Mbps)\_4TX

### PSD

#### 2437MHz

10/10/2021

CF  
2.437GHz

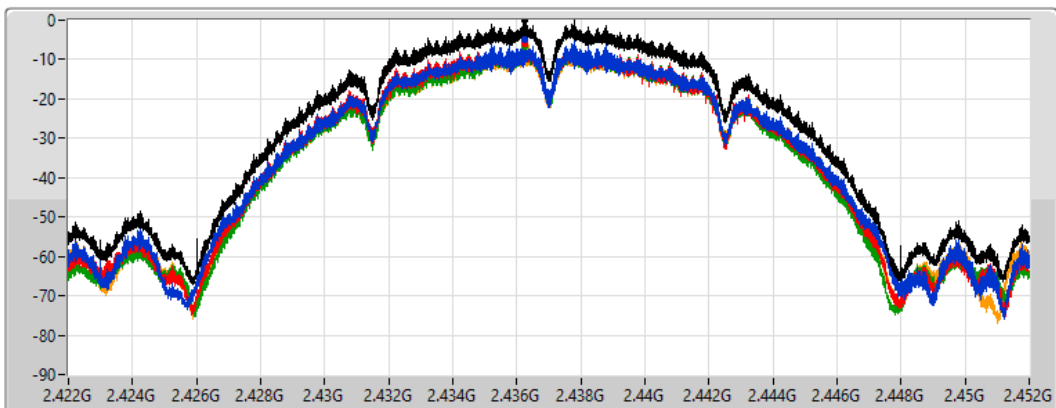
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.04	-0.04	-4.79	-5.86	-6.77	-6.84

### 802.11b\_Nss1,(1Mbps)\_4TX

### PSD

2462MHz

10/10/2021

CF  
2.462GHz

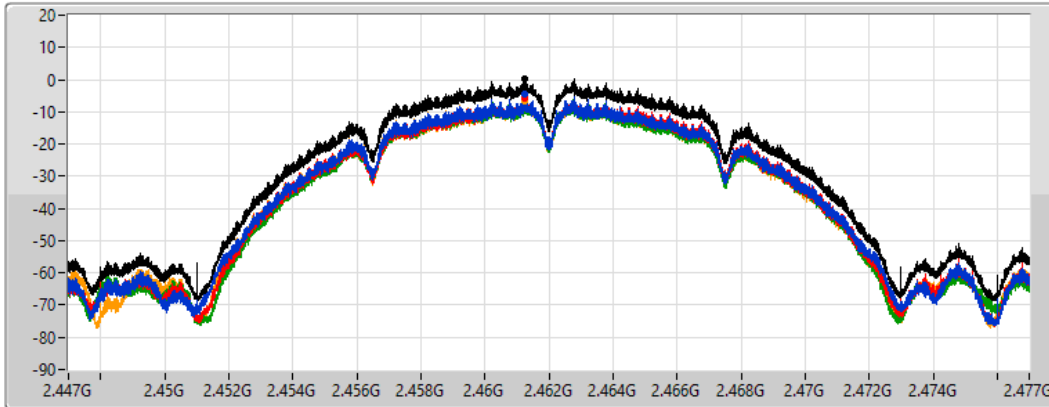
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
RMS




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.31	0.31	-4.59	-5.88	-5.94	-6.59

### 802.11g\_Nss1,(6Mbps)\_4TX

### PSD

2412MHz

10/10/2021

CF  
2.412GHz

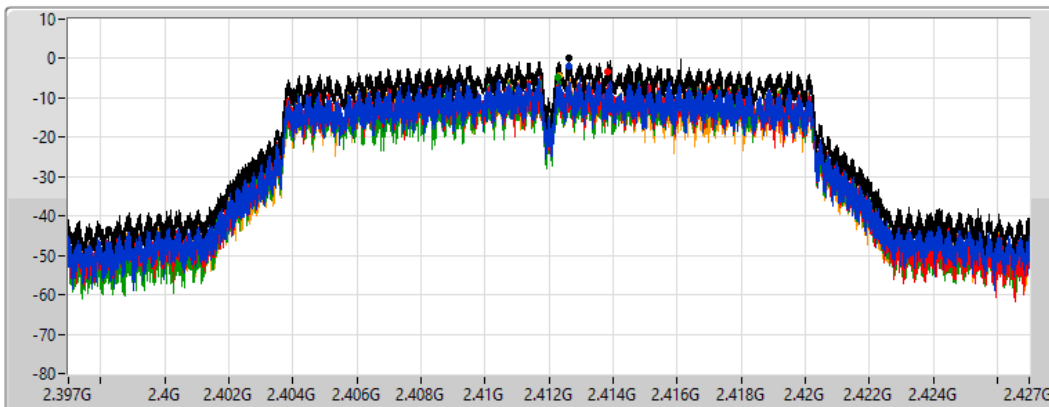
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms


Detector Type  
Peak




Sum 

Port 1 

Port 2 

Port 3 

Port 4 

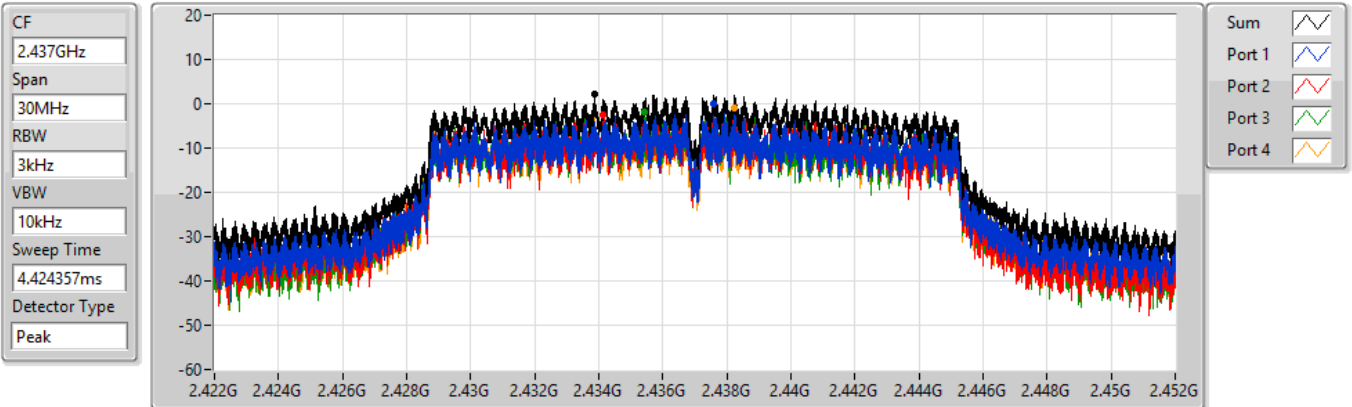
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.00	0.00	-2.09	-3.38	-4.72	-4.51

### 802.11g\_Nss1,(6Mbps)\_4TX

### PSD

2437MHz

10/10/2021



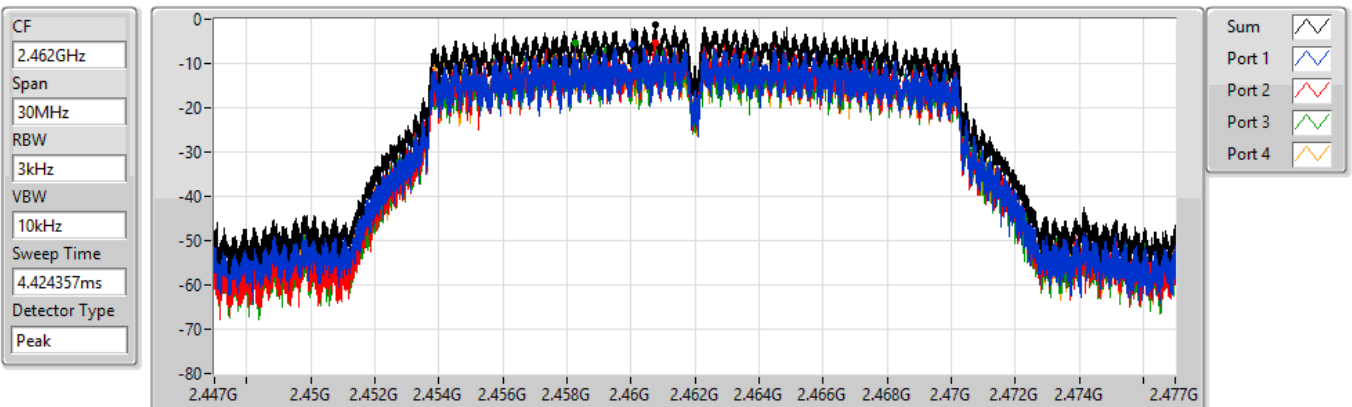
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.09	2.09	0.01	-2.49	-1.87	-0.97

### 802.11g\_Nss1,(6Mbps)\_4TX

### PSD

2462MHz

10/10/2021



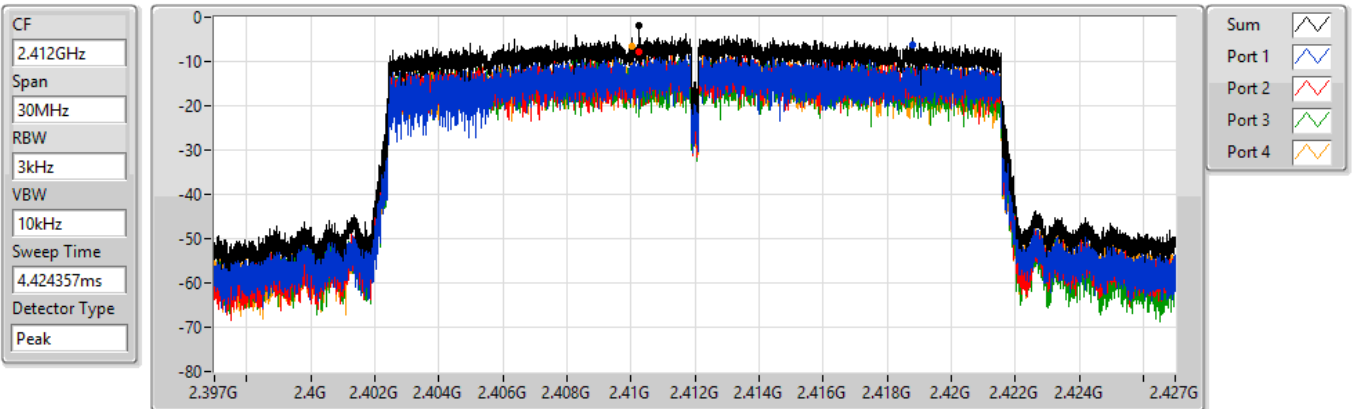
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.35	-1.35	-5.53	-5.31	-5.21	-5.34

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2412MHz

10/10/2021



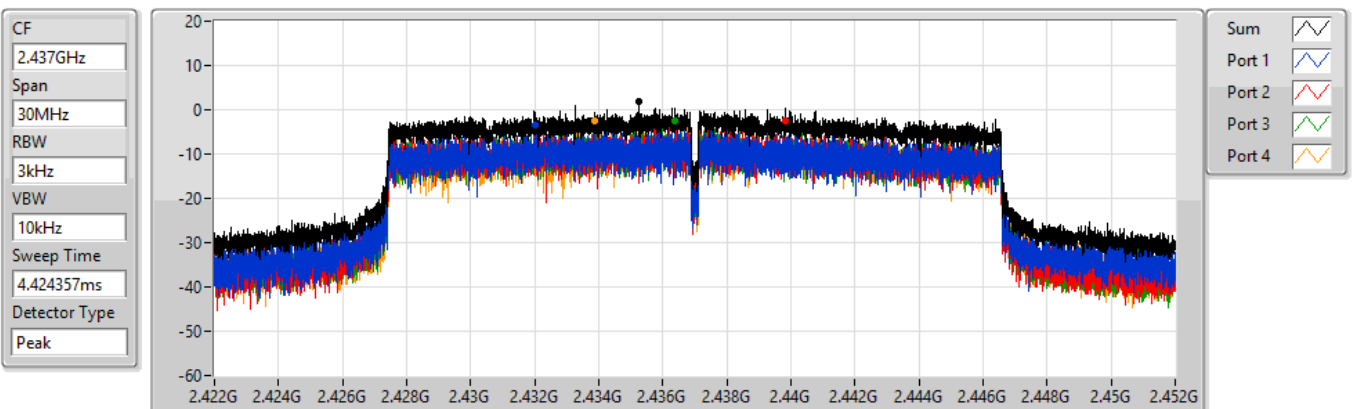
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.79	-1.79	-6.10	-7.76	-7.75	-6.59

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2437MHz

10/10/2021



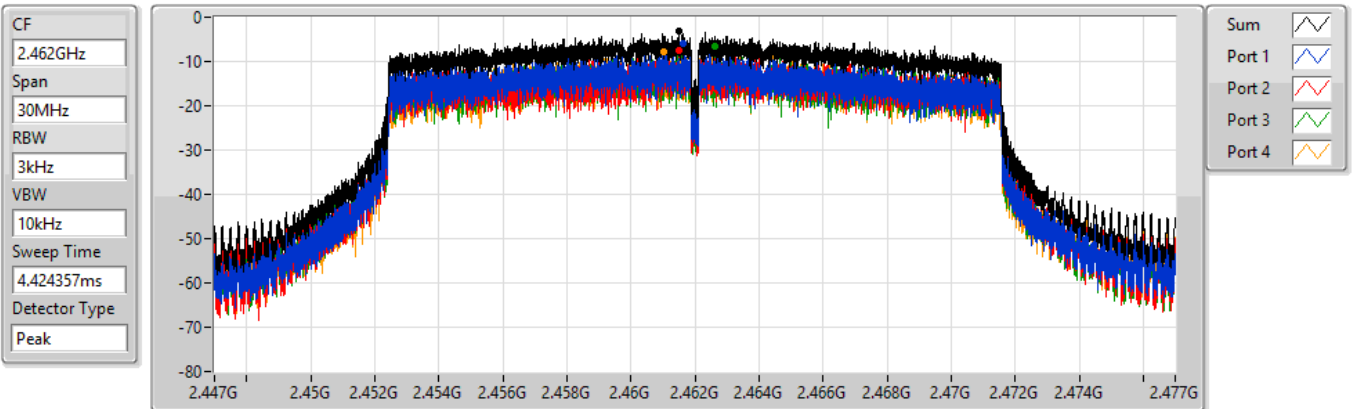
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.96	1.96	-3.45	-2.36	-2.59	-2.61

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

2462MHz

10/10/2021



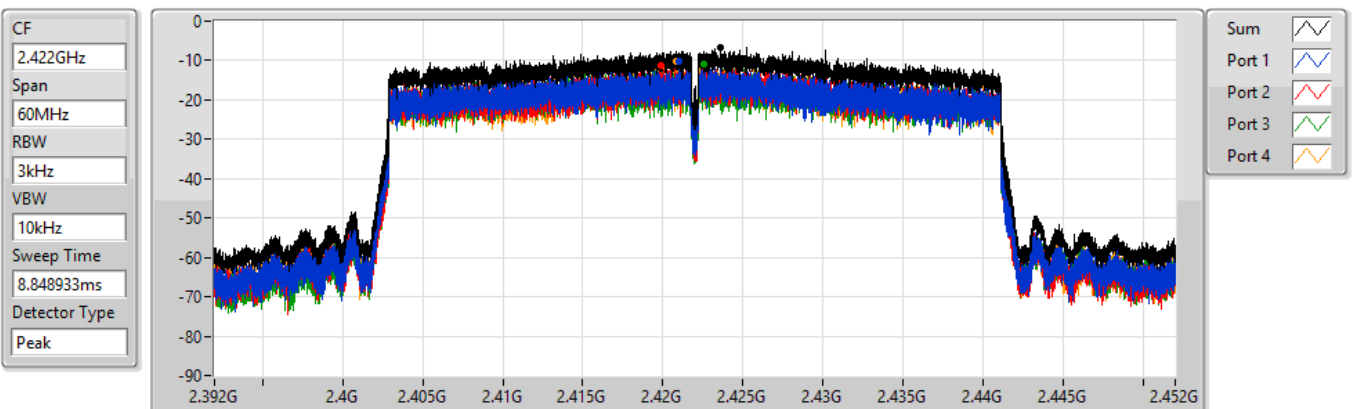
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.24	-3.24	-5.93	-7.36	-6.63	-7.89

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

2422MHz

10/10/2021



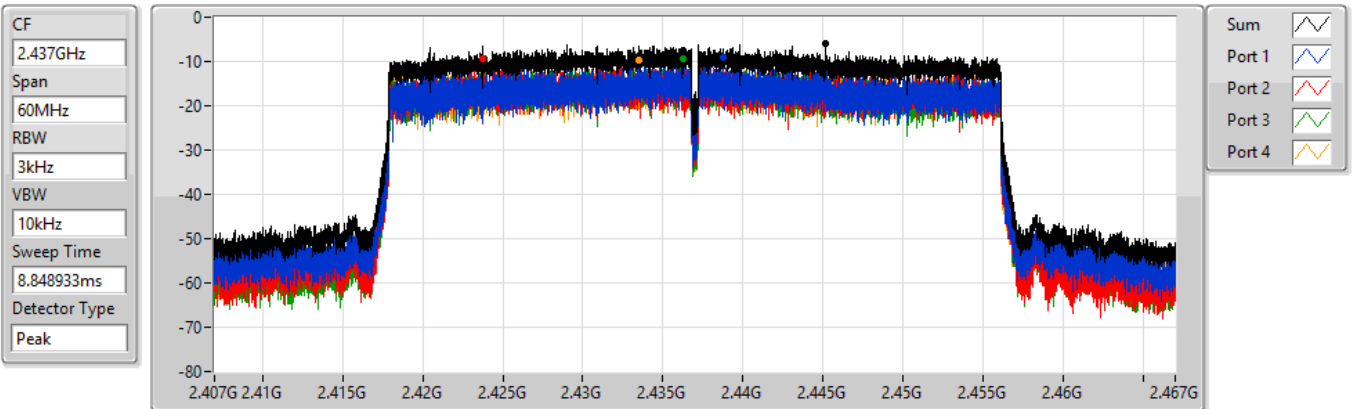
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.74	-6.74	-10.35	-11.16	-10.96	-10.17

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### PSD

2437MHz

10/10/2021



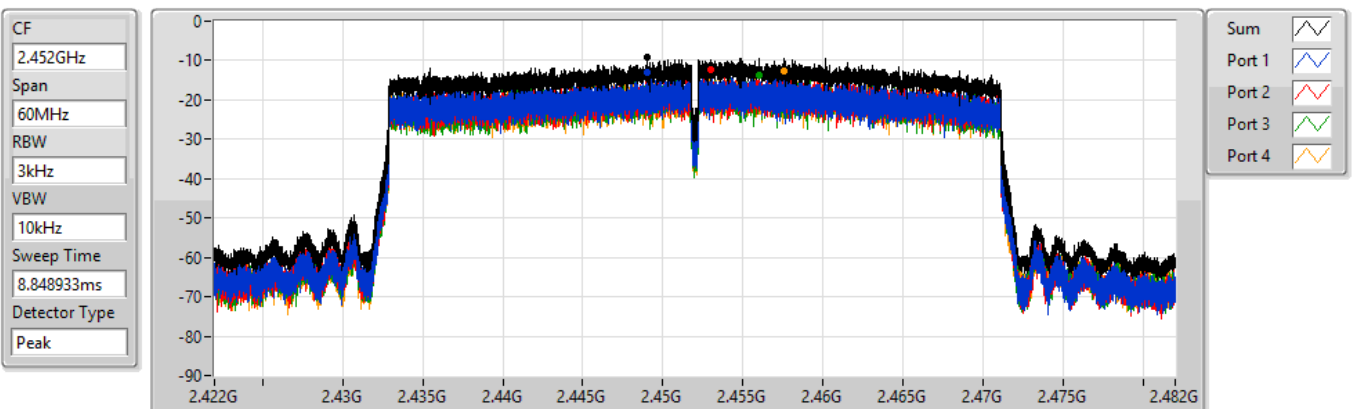
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.79	-5.79	-8.95	-9.27	-9.41	-9.84

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### PSD

2452MHz

10/10/2021



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.04	-9.04	-12.93	-12.37	-13.56	-12.72



Summary

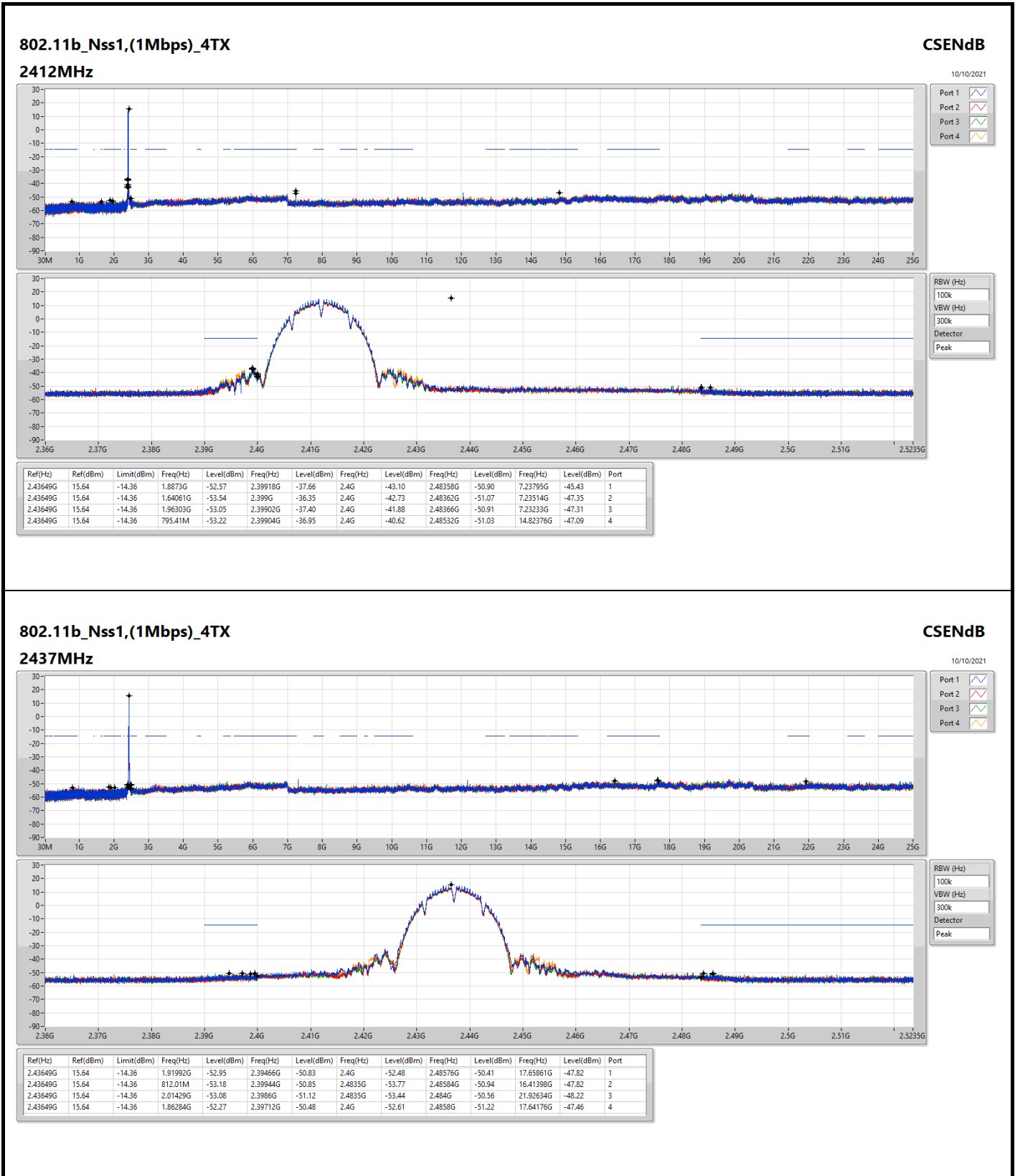
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43649G	15.64	-14.36	1.64061G	-53.54	2.399G	-36.35	2.4G	-42.73	2.48362G	-51.07	7.23514G	-47.35	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.43574G	13.86	-16.14	752.59M	-53.24	2.39962G	-21.19	2.4G	-25.33	2.48372G	-49.45	15.21429G	-48.03	1
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.43574G	13.22	-16.78	2.10079G	-53.12	2.39996G	-27.93	2.4G	-34.16	2.4846G	-50.16	5.8444G	-45.81	1
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.43449G	6.32	-23.68	1.94358G	-53.05	2.39972G	-33.95	2.4G	-33.73	2.4839G	-43.13	17.69692G	-47.50	1

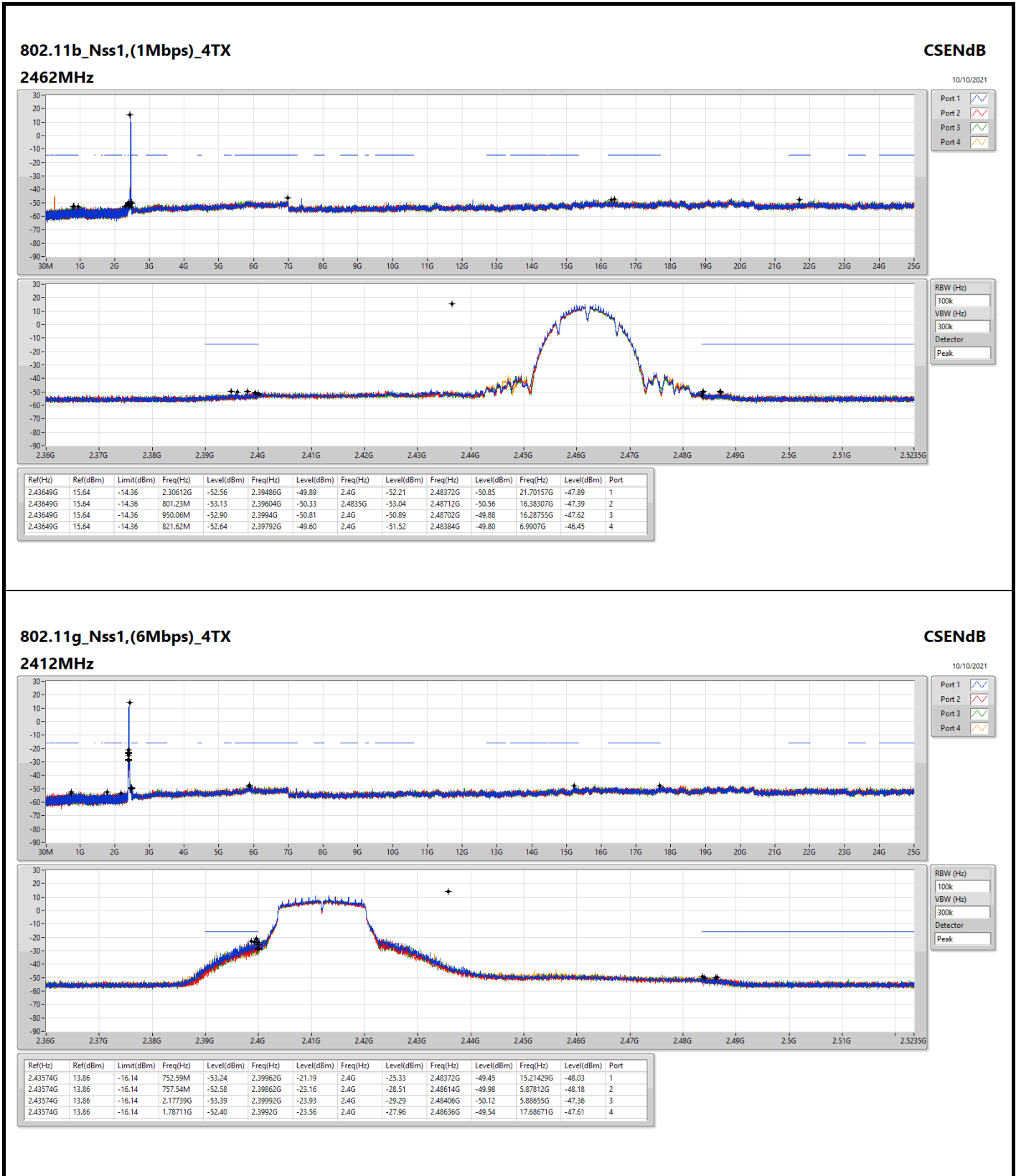


Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	15.64	-14.36	1.8873G	-52.57	2.39918G	-37.66	2.4G	-43.10	2.48358G	-50.90	7.23795G	-45.43	1
2412MHz	Pass	2.43649G	15.64	-14.36	1.64061G	-53.54	2.399G	-36.35	2.4G	-42.73	2.48362G	-51.07	7.23514G	-47.35	2
2412MHz	Pass	2.43649G	15.64	-14.36	1.96303G	-53.05	2.39902G	-37.40	2.4G	-41.88	2.48366G	-50.91	7.23233G	-47.31	3
2412MHz	Pass	2.43649G	15.64	-14.36	795.41M	-53.22	2.39904G	-36.95	2.4G	-40.62	2.48532G	-51.03	14.82376G	-47.09	4
2437MHz	Pass	2.43649G	15.64	-14.36	1.91992G	-52.95	2.39466G	-50.83	2.4G	-52.48	2.48576G	-50.41	17.65861G	-47.82	1
2437MHz	Pass	2.43649G	15.64	-14.36	812.01M	-53.18	2.39944G	-50.85	2.4835G	-53.77	2.48584G	-50.94	16.41398G	-47.82	2
2437MHz	Pass	2.43649G	15.64	-14.36	2.01429G	-53.08	2.3986G	-51.12	2.4835G	-53.44	2.484G	-50.56	21.92634G	-48.22	3
2437MHz	Pass	2.43649G	15.64	-14.36	1.86284G	-52.27	2.39712G	-50.48	2.4G	-52.61	2.4858G	-51.22	17.64176G	-47.46	4
2462MHz	Pass	2.43649G	15.64	-14.36	2.30612G	-52.56	2.39486G	-49.89	2.4G	-52.21	2.48372G	-50.85	21.70157G	-47.89	1
2462MHz	Pass	2.43649G	15.64	-14.36	801.23M	-53.13	2.39604G	-50.33	2.4835G	-53.04	2.48712G	-50.56	16.38307G	-47.39	2
2462MHz	Pass	2.43649G	15.64	-14.36	950.06M	-52.90	2.3994G	-50.81	2.4G	-50.89	2.48702G	-49.88	16.28755G	-47.62	3
2462MHz	Pass	2.43649G	15.64	-14.36	821.62M	-52.64	2.39792G	-49.60	2.4G	-51.52	2.48384G	-49.80	6.9907G	-46.45	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	13.86	-16.14	752.59M	-53.24	2.39962G	-21.19	2.4G	-25.33	2.48372G	-49.45	15.21429G	-48.03	1
2412MHz	Pass	2.43574G	13.86	-16.14	757.54M	-52.58	2.39862G	-23.16	2.4G	-28.51	2.48614G	-49.98	5.87812G	-48.18	2
2412MHz	Pass	2.43574G	13.86	-16.14	2.17739G	-53.39	2.39992G	-23.93	2.4G	-29.29	2.48406G	-50.12	5.88655G	-47.36	3
2412MHz	Pass	2.43574G	13.86	-16.14	1.78711G	-52.40	2.3992G	-23.56	2.4G	-27.96	2.48636G	-49.54	17.68671G	-47.61	4
2417MHz															
2437MHz	Pass	2.43574G	13.86	-16.14	1.86138G	-52.56	2.39954G	-40.55	2.4G	-44.35	2.48544G	-47.96	6.95137G	-48.29	1
2437MHz	Pass	2.43574G	13.86	-16.14	320.67M	-51.52	2.39958G	-43.05	2.4G	-45.91	2.48626G	-48.72	6.03264G	-48.64	2
2437MHz	Pass	2.43574G	13.86	-16.14	385.33M	-53.22	2.39854G	-41.55	2.4G	-46.45	2.48452G	-48.12	17.64737G	-47.04	3
2437MHz	Pass	2.43574G	13.86	-16.14	787.25M	-53.63	2.39952G	-41.77	2.4G	-45.44	2.48388G	-47.50	16.29598G	-48.17	4
2457MHz															
2462MHz	Pass	2.43574G	13.86	-16.14	914.24M	-52.80	2.39802G	-48.73	2.4835G	-43.64	2.48488G	-42.40	5.75731G	-47.46	1
2462MHz	Pass	2.43574G	13.86	-16.14	1.84857G	-53.14	2.39954G	-49.51	2.4835G	-47.51	2.48356G	-43.85	16.41679G	-47.02	2
2462MHz	Pass	2.43574G	13.86	-16.14	464.84M	-52.94	2.39726G	-48.63	2.4835G	-44.75	2.48398G	-43.34	17.64176G	-48.08	3
2462MHz	Pass	2.43574G	13.86	-16.14	820.45M	-52.06	2.39826G	-48.79	2.4835G	-45.92	2.48486G	-43.78	16.26226G	-48.31	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43574G	13.22	-16.78	2.10079G	-53.12	2.39996G	-27.93	2.4G	-34.16	2.4846G	-50.16	5.8444G	-45.81	1
2412MHz	Pass	2.43574G	13.22	-16.78	623.28M	-53.23	2.3989G	-32.96	2.4G	-35.64	2.48588G	-50.03	5.88093G	-47.15	2
2412MHz	Pass	2.43574G	13.22	-16.78	952.39M	-53.37	2.39994G	-31.71	2.4G	-38.19	2.48554G	-49.64	17.66423G	-47.88	3
2412MHz	Pass	2.43574G	13.22	-16.78	786.38M	-53.48	2.39988G	-30.23	2.4G	-35.81	2.48366G	-50.21	6.98509G	-47.92	4
2417MHz															
2437MHz	Pass	2.43574G	13.22	-16.78	945.4M	-52.81	2.39972G	-37.63	2.4G	-39.62	2.48678G	-45.77	16.20888G	-46.58	1
2437MHz	Pass	2.43574G	13.22	-16.78	894.14M	-51.92	2.39796G	-39.21	2.4G	-41.58	2.4837G	-45.90	16.85508G	-48.18	2
2437MHz	Pass	2.43574G	13.22	-16.78	2.1704G	-52.66	2.39978G	-35.95	2.4G	-43.78	2.48514G	-45.86	15.22553G	-47.75	3
2437MHz	Pass	2.43574G	13.22	-16.78	885.69M	-53.18	2.39902G	-37.59	2.4G	-43.00	2.48418G	-46.20	16.45331G	-47.61	4
2457MHz															
2462MHz	Pass	2.43574G	13.22	-16.78	899.38M	-52.80	2.3999G	-48.58	2.4835G	-45.13	2.4843G	-37.49	6.80246G	-47.69	1
2462MHz	Pass	2.43574G	13.22	-16.78	954.14M	-52.85	2.39572G	-50.11	2.4835G	-45.61	2.4842G	-43.65	17.63614G	-47.87	2
2462MHz	Pass	2.43574G	13.22	-16.78	2.19166G	-53.38	2.39844G	-48.37	2.4835G	-47.06	2.48458G	-41.18	6.71256G	-47.55	3
2462MHz	Pass	2.43574G	13.22	-16.78	777.93M	-53.11	2.39748G	-48.16	2.4835G	-45.28	2.48444G	-41.26	17.65299G	-47.85	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43449G	6.32	-23.68	364.63M	-53.08	2.39728G	-35.43	2.4G	-37.09	2.4853G	-49.55	17.67729G	-47.61	1
2422MHz	Pass	2.43449G	6.32	-23.68	885.32M	-53.08	2.39728G	-36.47	2.4G	-40.00	2.48878G	-49.91	17.65205G	-47.54	2
2422MHz	Pass	2.43449G	6.32	-23.68	942.28M	-53.21	2.39976G	-38.29	2.4G	-44.24	2.4845G	-49.81	5.89252G	-48.40	3
2422MHz	Pass	2.43449G	6.32	-23.68	781.69M	-52.79	2.397G	-35.45	2.4G	-37.69	2.48426G	-49.17	16.73776G	-47.94	4
2437MHz	Pass	2.43449G	6.32	-23.68	1.94358G	-53.05	2.39972G	-33.95	2.4G	-33.73	2.4839G	-43.13	17.69692G	-47.50	1
2437MHz	Pass	2.43449G	6.32	-23.68	624.26M	-52.56	2.4G	-37.70	2.4G	-43.60	2.48478G	-45.93	6.98349G	-47.20	2
2437MHz	Pass	2.43449G	6.32	-23.68	638.57M	-52.79	2.39972G	-39.12	2.4G	-37.33	2.48466G	-43.90	5.17174G	-31.04	3
2437MHz	Pass	2.43449G	6.32	-23.68	2.07841G	-51.89	2.39976G	-35.22	2.4G	-36.13	2.48426G	-44.47	17.69131G	-47.98	4
2452MHz	Pass	2.43449G	6.32	-23.68	905.35M	-53.00	2.39948G	-50.72	2.4835G	-49.79	2.4835G	-45.27	6.18139G	-47.91	1
2452MHz	Pass	2.43449G	6.32	-23.68	706.98M	-52.44	2.39512G	-51.86	2.4835G	-51.31	2.48354G	-47.01	17.6829G	-47.49	2
2452MHz	Pass	2.43449G	6.32	-23.68	898.2M	-52.03	2.39512G	-51.25	2.4835G	-50.23	2.48446G	-47.13	16.46011G	-48.27	3
2452MHz	Pass	2.43449G	6.32	-23.68	2.17487G	-53.15	2.39452G	-51.05	2.4835G	-50.71	2.48442G	-47.24	17.67729G	-47.35	4





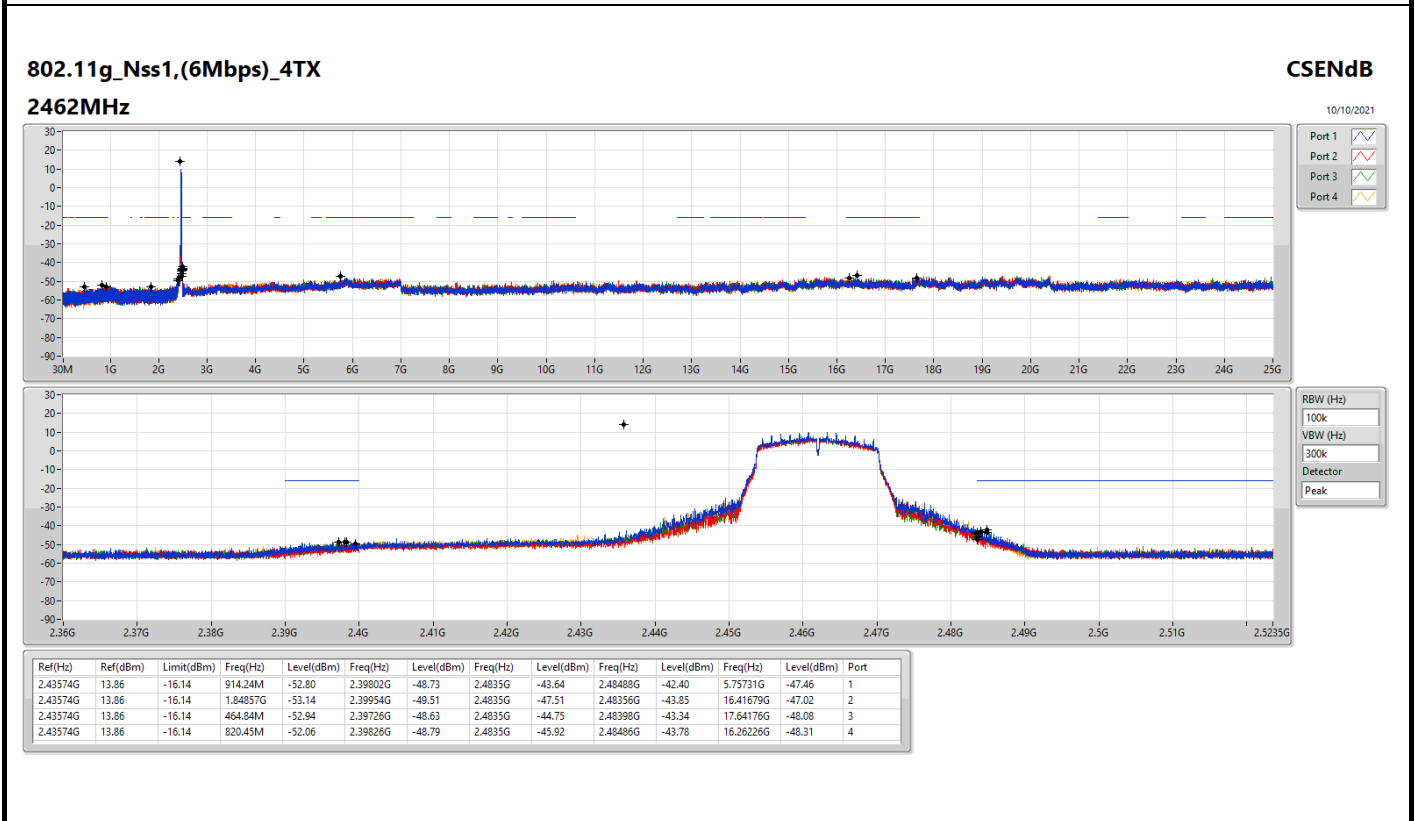
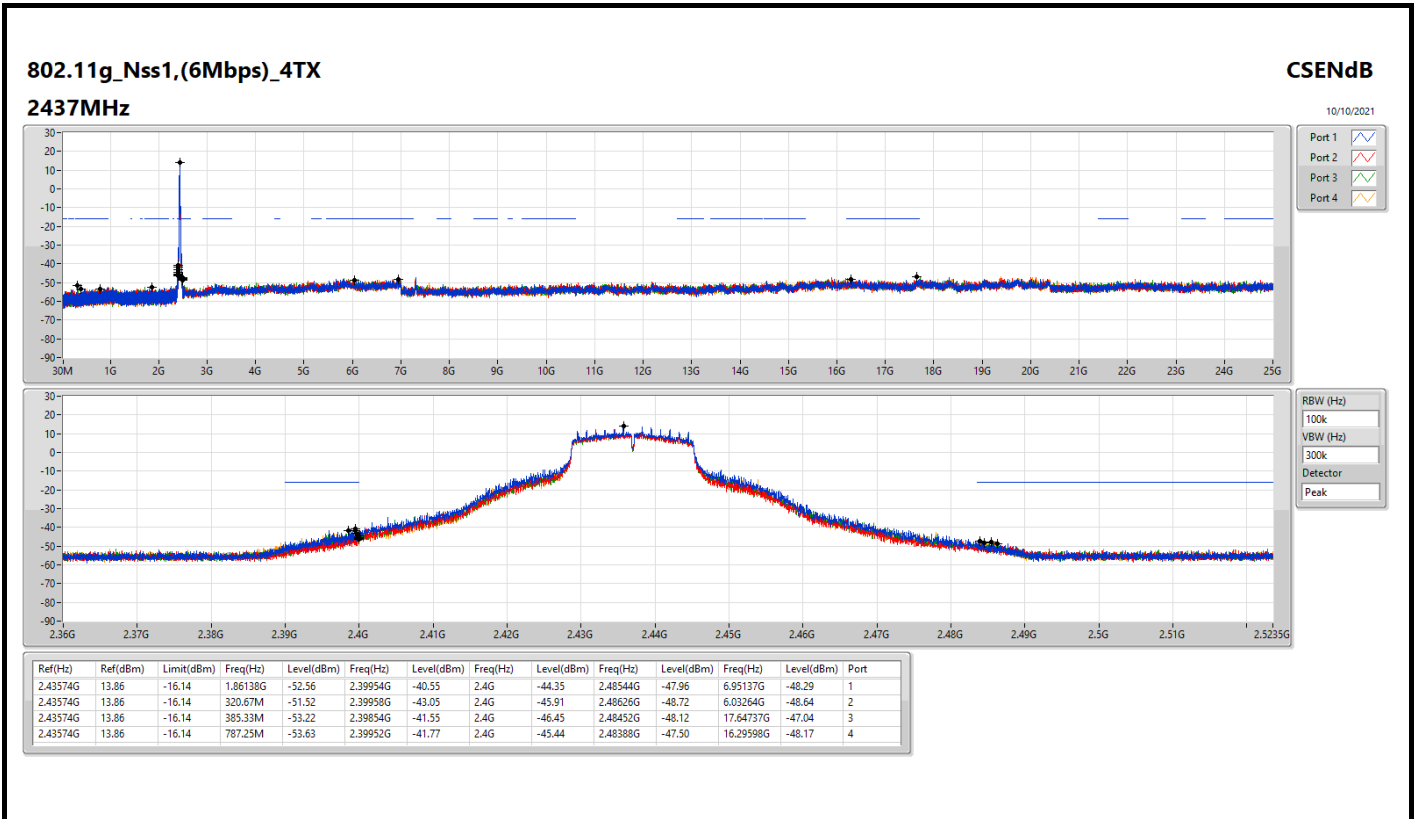


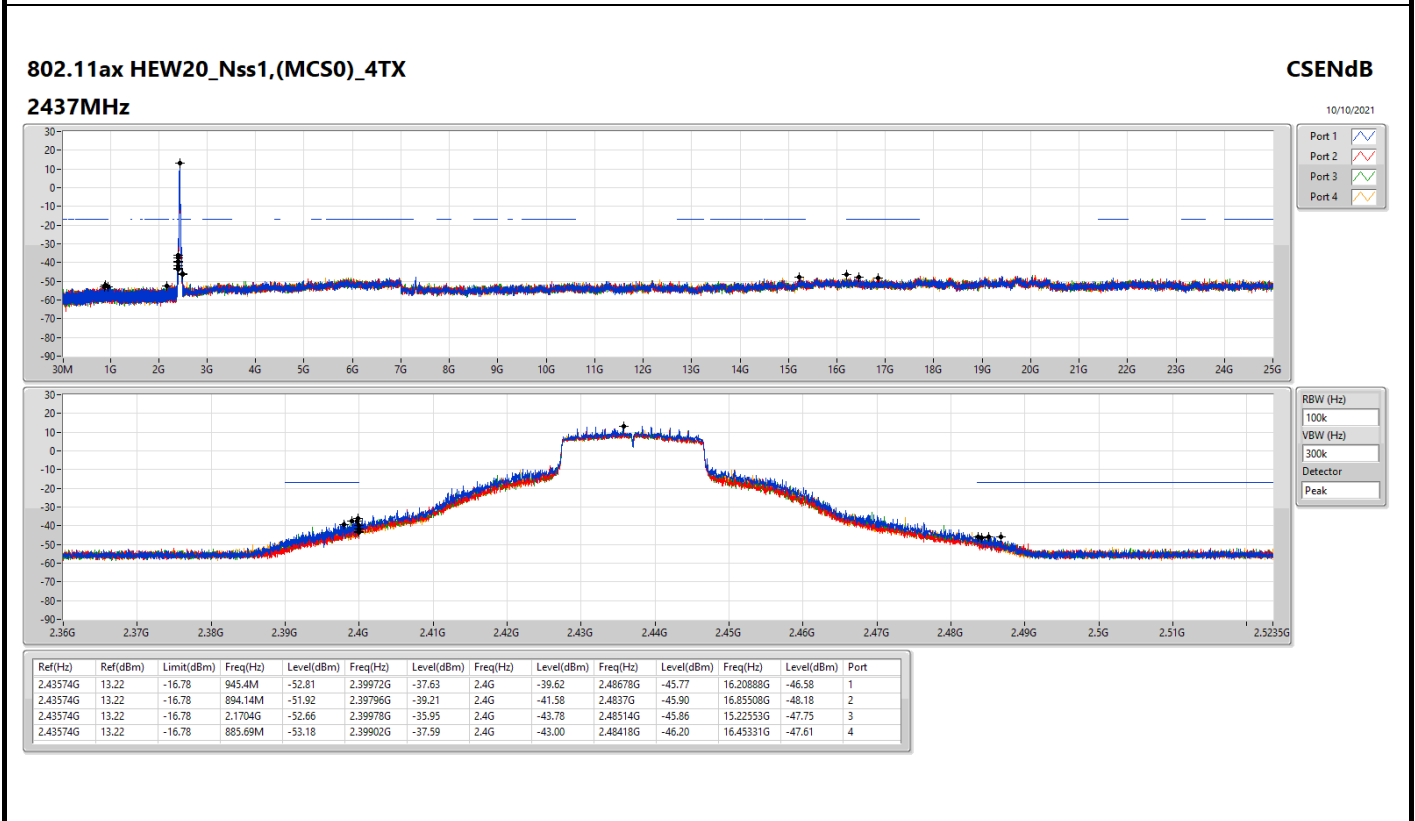
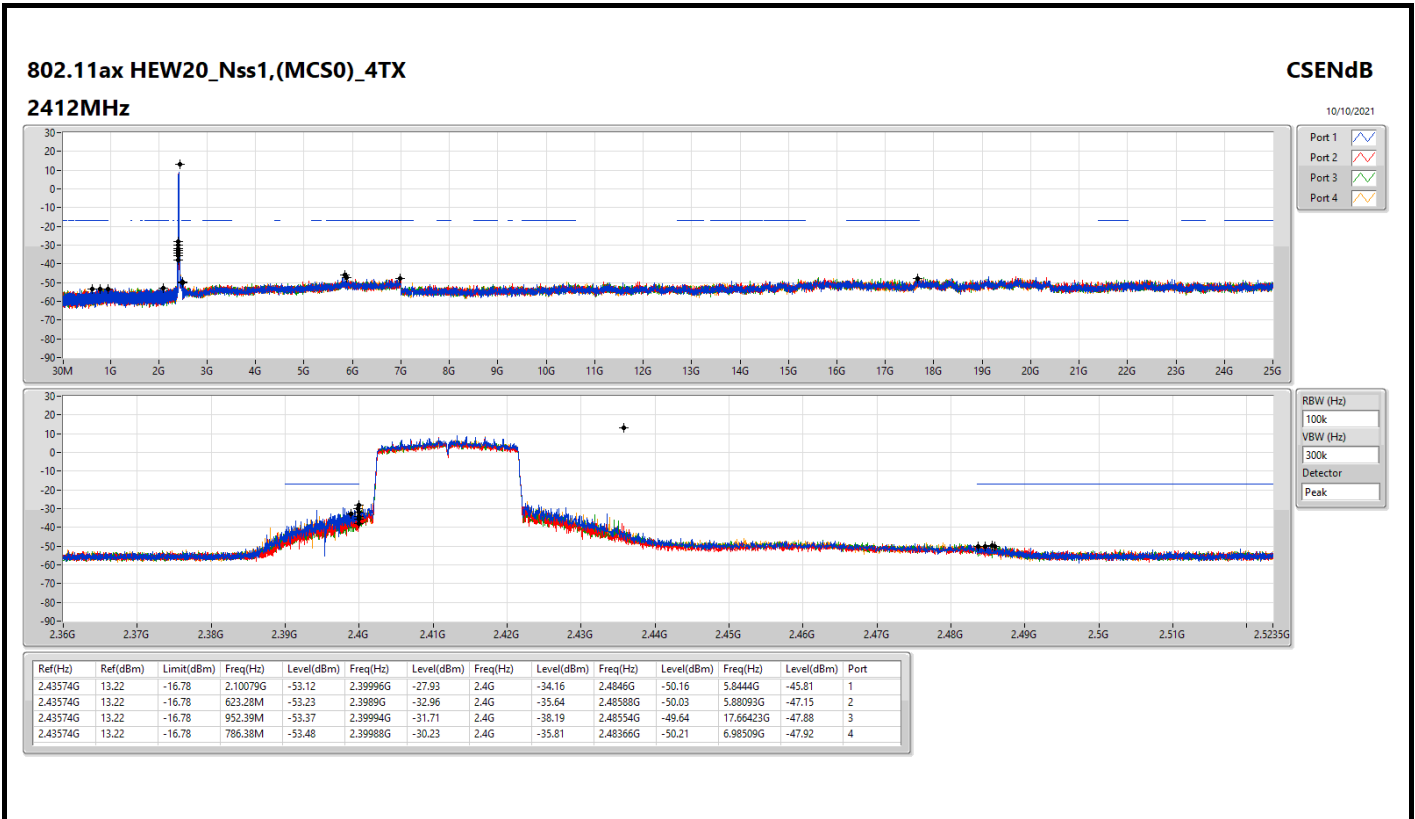
### 802.11g\_Nss1,(6Mbps)\_4TX

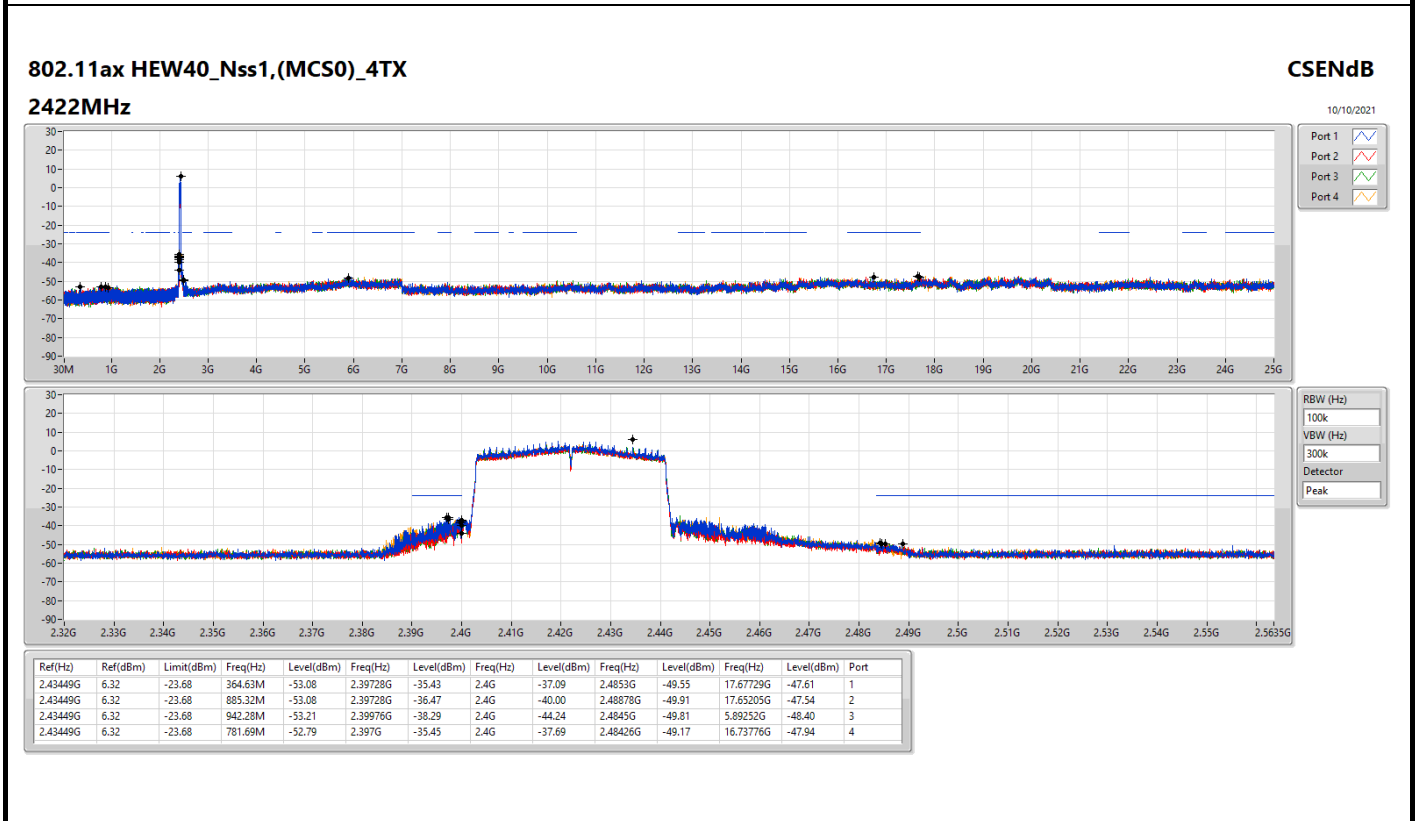
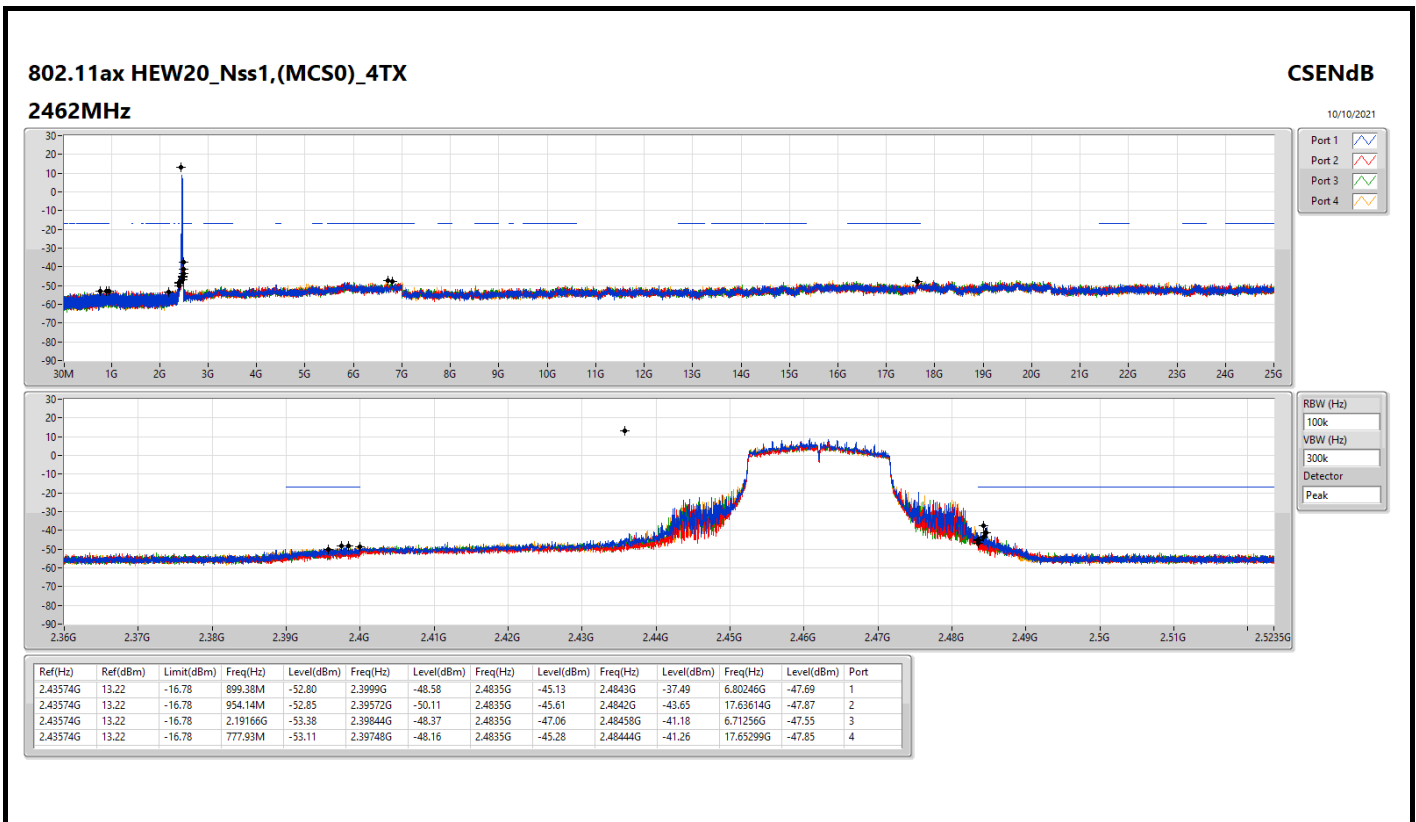
#### 2412MHz

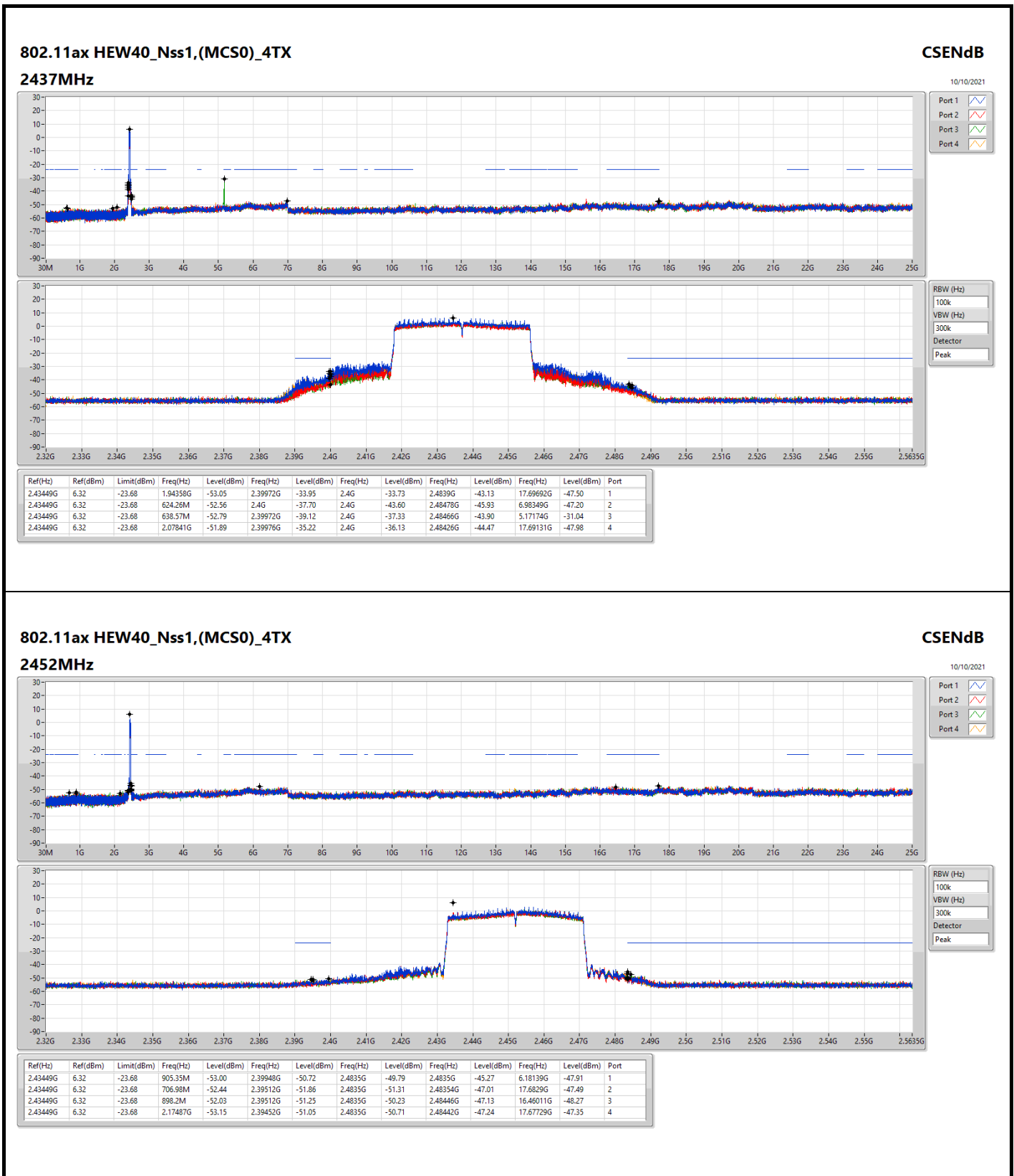
CSEndB

10/10/2021









### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

#### 2452MHz

CSENdB

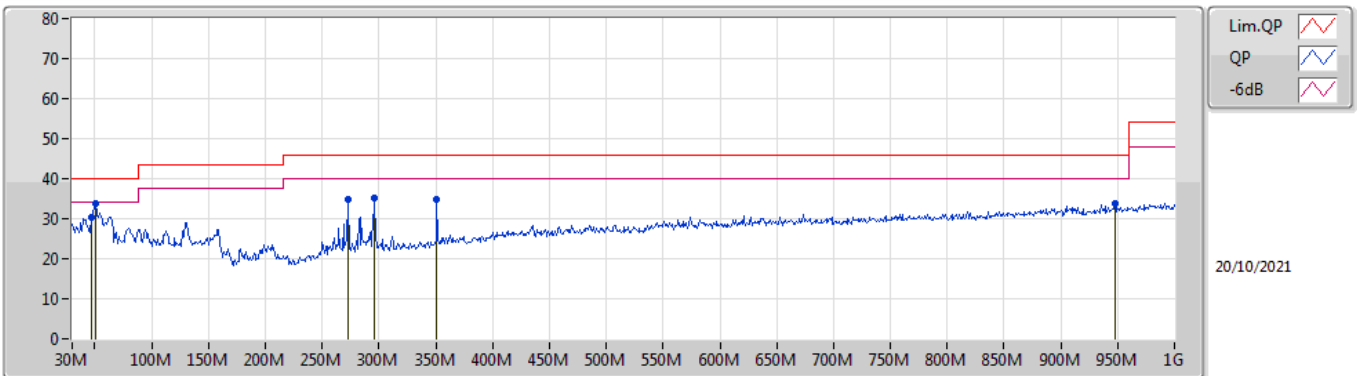
10/10/2021



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	272.5M	42.66	46.00	-3.34	Horizontal

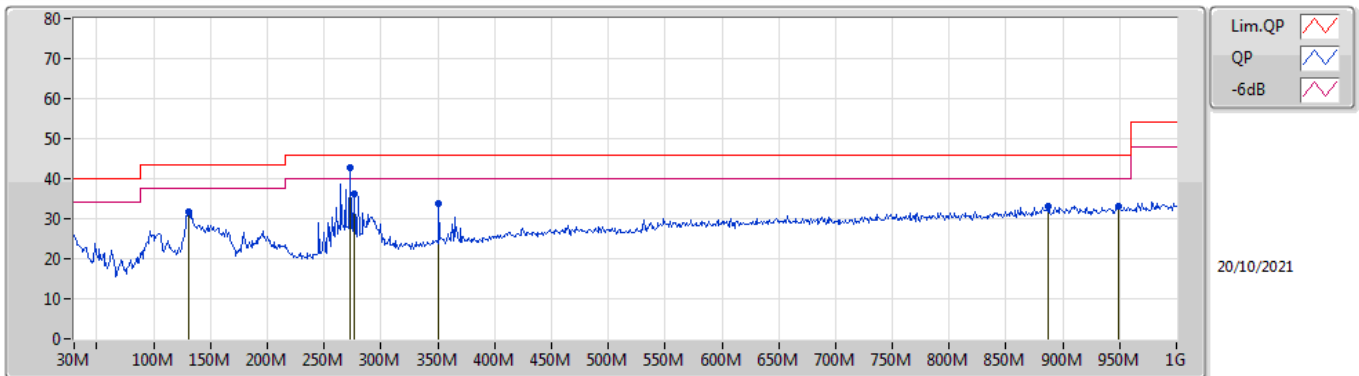
Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	46.49M	30.39	40.00	-9.61	-15.38	3	Vertical	359	1.00	-	45.77	15.35	1.00	31.73
PK	50.37M	33.87	40.00	-6.13	-16.92	3	Vertical	359	1.00	"Worst"	50.79	13.83	1.01	31.76
PK	272.5M	34.82	46.00	-11.18	-10.95	3	Vertical	123	2.00	-	45.77	18.56	2.53	32.04
PK	295.78M	35.15	46.00	-10.85	-10.53	3	Vertical	240	2.00	-	45.68	18.87	2.67	32.07
PK	351.07M	34.69	46.00	-11.31	-8.88	3	Vertical	280	2.00	-	43.57	20.33	2.90	32.11
PK	947.62M	33.68	46.00	-12.32	-1.15	3	Vertical	9	1.50	-	34.83	26.42	5.00	32.57



Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	130.88M	31.89	43.50	-11.61	-12.58	3	Horizontal	272	1.50	-	44.47	17.66	1.71	31.95
PK	272.5M	42.66	46.00	-3.34	-10.95	3	Horizontal	207	1.25	"Worst"	53.61	18.56	2.53	32.04
PK	276.38M	36.30	46.00	-9.70	-10.91	3	Horizontal	245	1.25	-	47.21	18.58	2.56	32.05
PK	351.07M	33.75	46.00	-12.25	-8.88	3	Horizontal	326	1.25	-	42.63	20.33	2.90	32.11
PK	887.48M	33.08	46.00	-12.92	-1.54	3	Horizontal	0	2.00	-	34.62	26.19	4.92	32.65
PK	949.56M	33.11	46.00	-12.89	-1.12	3	Horizontal	344	2.00	-	34.23	26.45	5.00	32.57

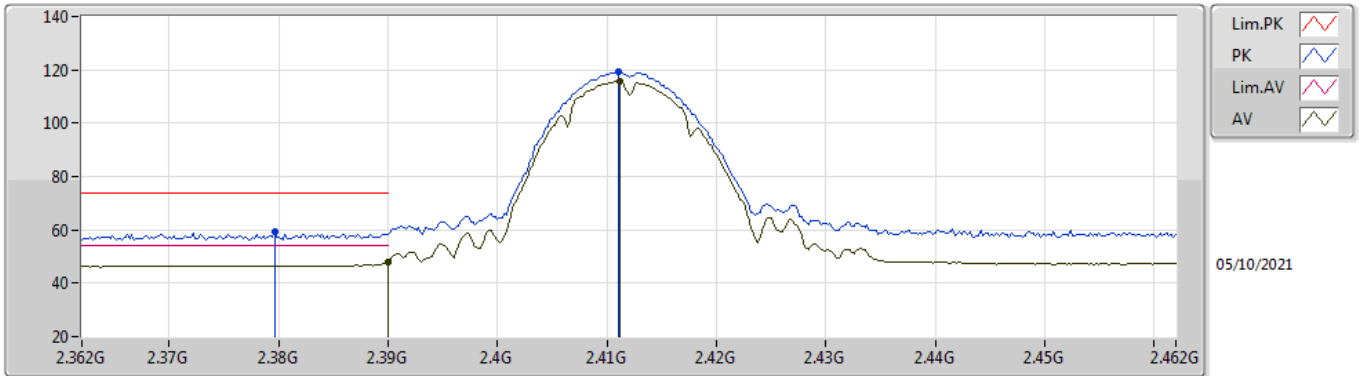


Summary

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)_4TX	Pass	AV	2.4835G	52.96	54.00	-1.04	3	Vertical	339	1.60	-

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2412MHz\_TX

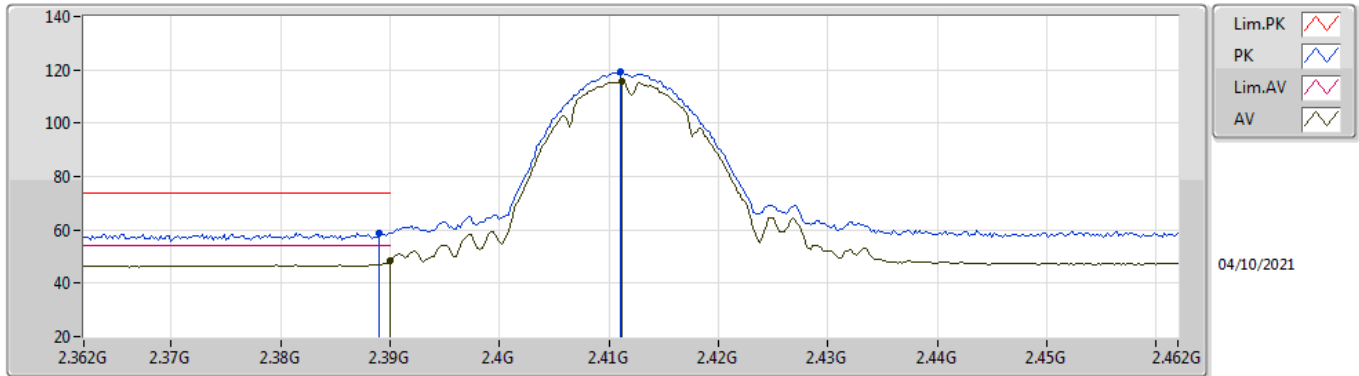


EUT Y\_4TX  
Setting 24  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3796G	59.24	74.00	-14.76	28.47	3	Vertical	165	2.24	-	28.36	2.41	-
AV	2.39G	48.13	54.00	-5.87	17.34	3	Vertical	165	2.24	-	28.38	2.41	-
PK	2.411G	119.40	Inf	-Inf	88.59	3	Vertical	165	2.24	-	28.40	2.41	-
AV	2.4112G	115.78	Inf	-Inf	84.97	3	Vertical	165	2.24	-	28.40	2.41	-

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2412MHz\_TX

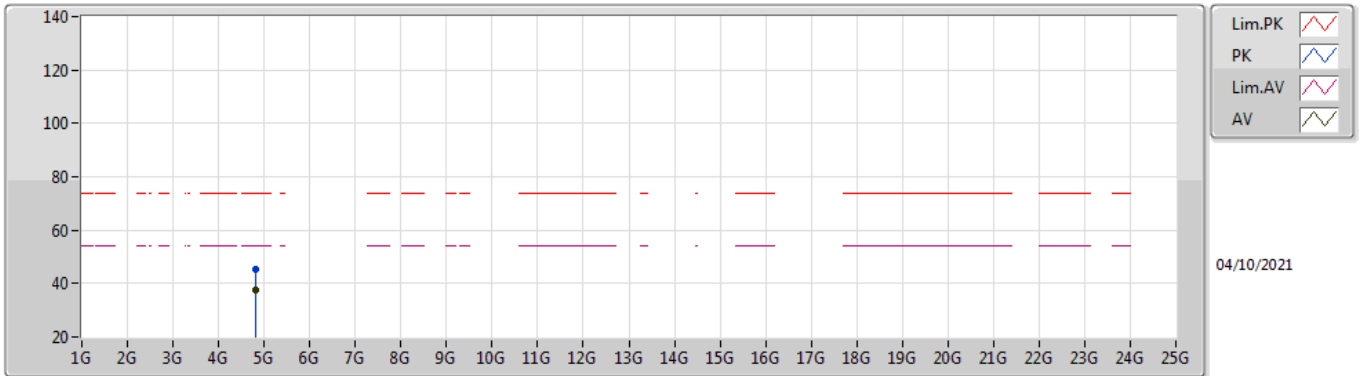


EUT Y\_4TX  
Setting 24  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	58.98	74.00	-15.02	28.19	3	Horizontal	165	2.24	-	28.38	2.41	-
AV	2.39G	48.26	54.00	-5.74	17.47	3	Horizontal	165	2.24	-	28.38	2.41	-
PK	2.411G	119.11	Inf	-Inf	88.30	3	Horizontal	165	2.24	-	28.40	2.41	-
AV	2.4112G	115.72	Inf	-Inf	84.91	3	Horizontal	165	2.24	-	28.40	2.41	-

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2412MHz\_TX

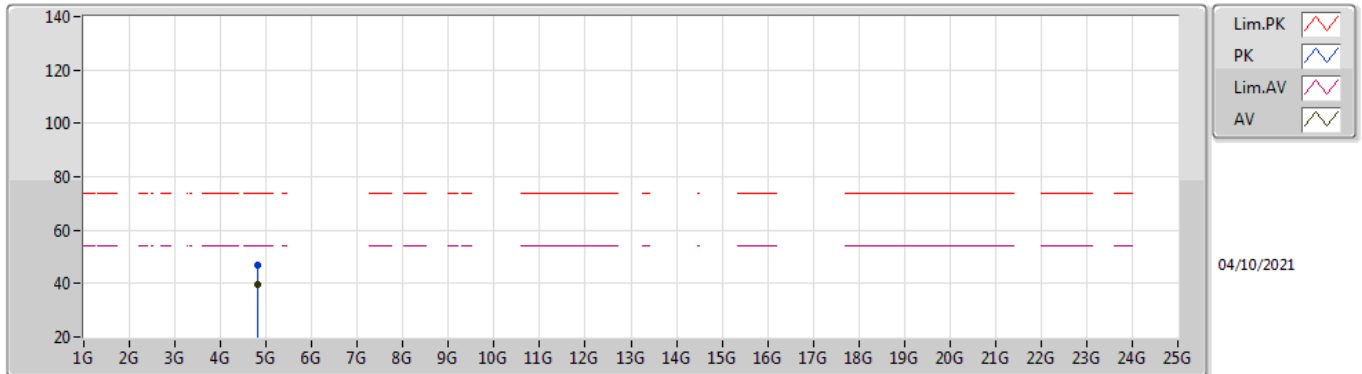


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82406G	45.23	74.00	-28.77	39.95	3	Vertical	160	2.57	-	32.80	4.70	32.22
AV	4.82404G	37.44	54.00	-16.56	32.16	3	Vertical	160	2.57	-	32.80	4.70	32.22

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2412MHz\_TX

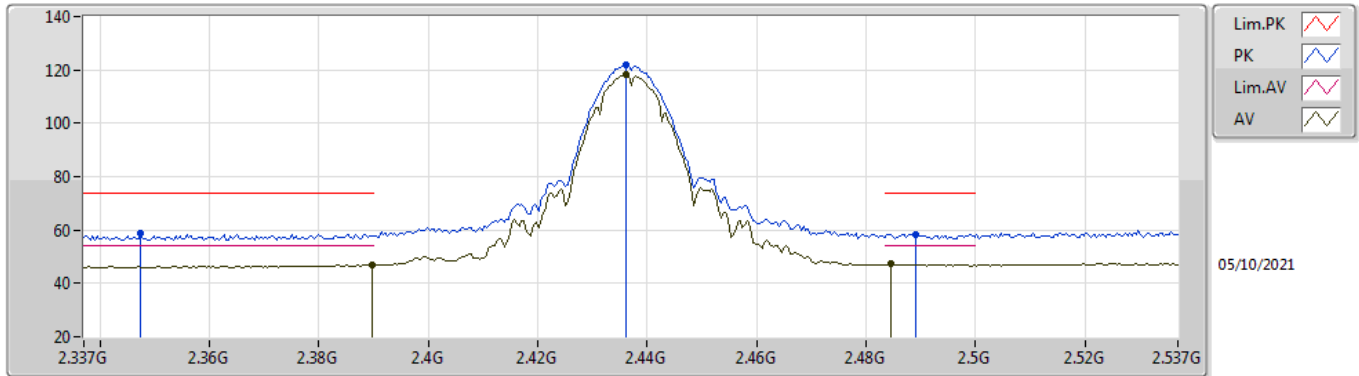


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82392G	46.80	74.00	-27.20	41.52	3	Horizontal	209	1.80	-	32.80	4.70	32.22
AV	4.82398G	39.63	54.00	-14.37	34.35	3	Horizontal	209	1.80	-	32.80	4.70	32.22

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2437MHz\_TX

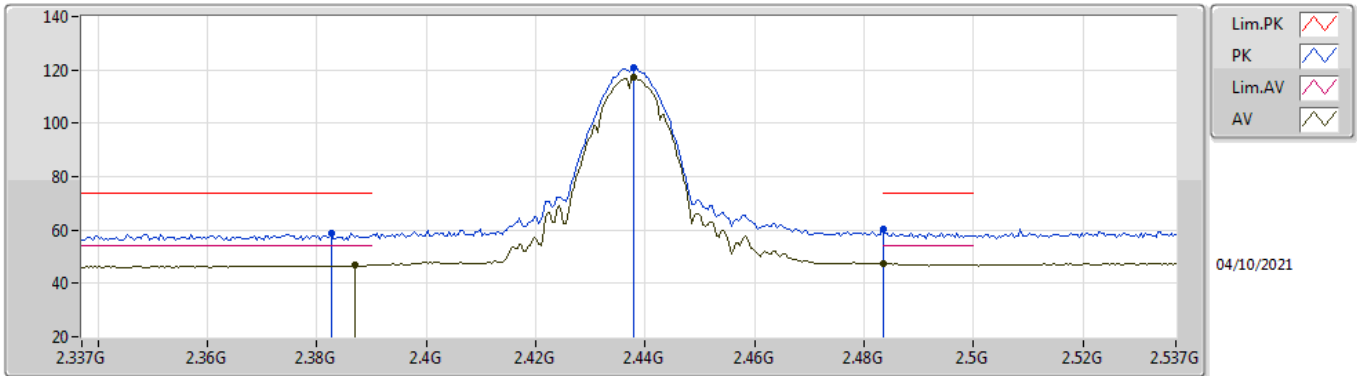


EUT Y\_4TX  
Setting 24  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3474G	58.61	74.00	-15.39	27.89	3	Vertical	180	3.00	-	28.29	2.43	-
AV	2.3898G	47.01	54.00	-6.99	16.22	3	Vertical	180	3.00	-	28.38	2.41	-
PK	2.4362G	121.84	Inf	-Inf	91.02	3	Vertical	180	3.00	-	28.40	2.42	-
AV	2.4362G	118.12	Inf	-Inf	87.30	3	Vertical	180	3.00	-	28.40	2.42	-
PK	2.489G	58.47	74.00	-15.53	27.47	3	Vertical	180	3.00	-	28.56	2.44	-
AV	2.4846G	47.22	54.00	-6.78	16.24	3	Vertical	180	3.00	-	28.54	2.44	-

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2437MHz\_TX



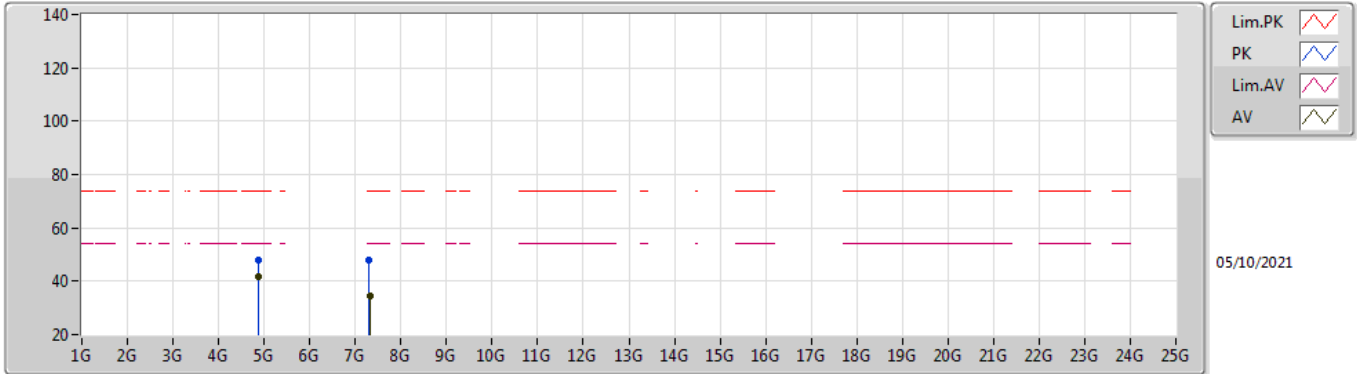
EUT Y\_4TX  
Setting 24  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3826G	58.96	74.00	-15.04	28.18	3	Horizontal	92	2.11	-	28.37	2.41	-
AV	2.387G	46.69	54.00	-7.31	15.91	3	Horizontal	92	2.11	-	28.37	2.41	-
PK	2.4378G	120.88	Inf	-Inf	90.06	3	Horizontal	92	2.11	-	28.40	2.42	-
AV	2.4378G	117.14	Inf	-Inf	86.32	3	Horizontal	92	2.11	-	28.40	2.42	-
PK	2.4835G	60.49	74.00	-13.51	29.52	3	Horizontal	92	2.11	-	28.53	2.44	-
AV	2.4835G	47.45	54.00	-6.55	16.48	3	Horizontal	92	2.11	-	28.53	2.44	-



### 802.11b\_Nss1,(1Mbps)\_4TX

### 2437MHz\_TX

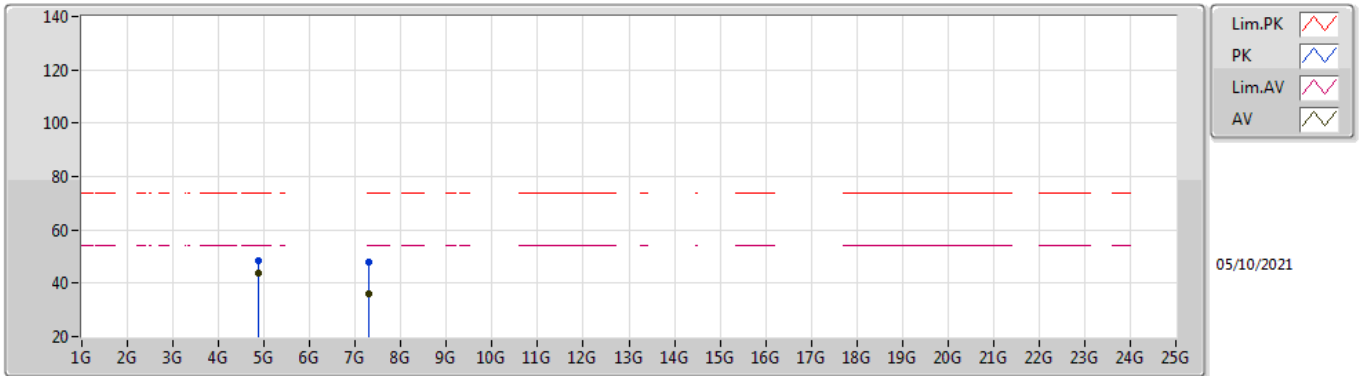


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87395G	47.73	74.00	-26.27	42.29	3	Vertical	102	1.77	-	32.95	4.70	32.21
AV	4.87403G	41.82	54.00	-12.18	36.38	3	Vertical	102	1.77	-	32.95	4.70	32.21
PK	7.31019G	47.97	74.00	-26.03	38.61	3	Vertical	236	1.67	-	36.42	5.76	32.82
AV	7.31142G	34.51	54.00	-19.49	25.15	3	Vertical	236	1.67	-	36.42	5.76	32.82

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2437MHz\_TX

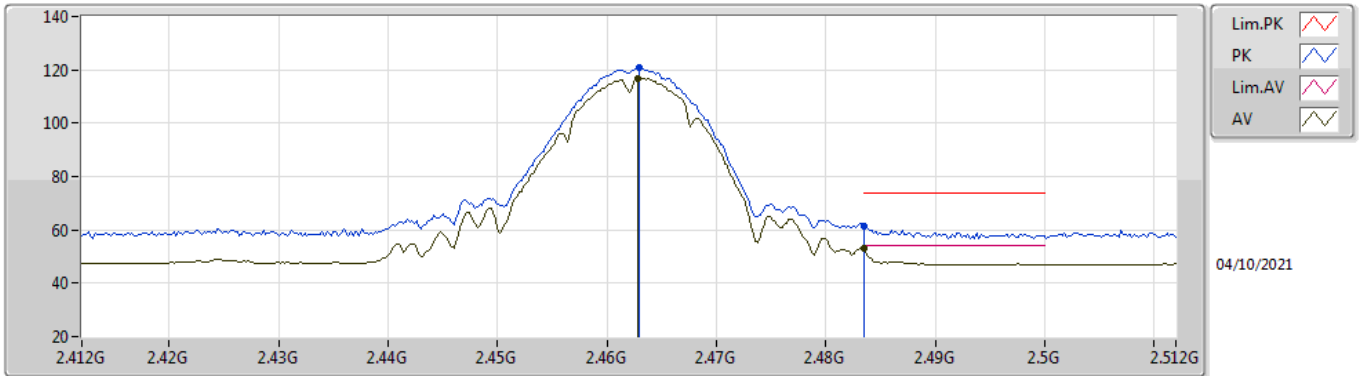


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87412G	48.21	74.00	-25.79	42.77	3	Horizontal	206	1.25	-	32.95	4.70	32.21
AV	4.87396G	43.94	54.00	-10.06	38.50	3	Horizontal	206	1.25	-	32.95	4.70	32.21
PK	7.30942G	48.10	74.00	-25.90	38.75	3	Horizontal	191	1.94	-	36.42	5.75	32.82
AV	7.30962G	36.23	54.00	-17.77	26.88	3	Horizontal	191	1.94	-	36.42	5.75	32.82

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2462MHz\_TX

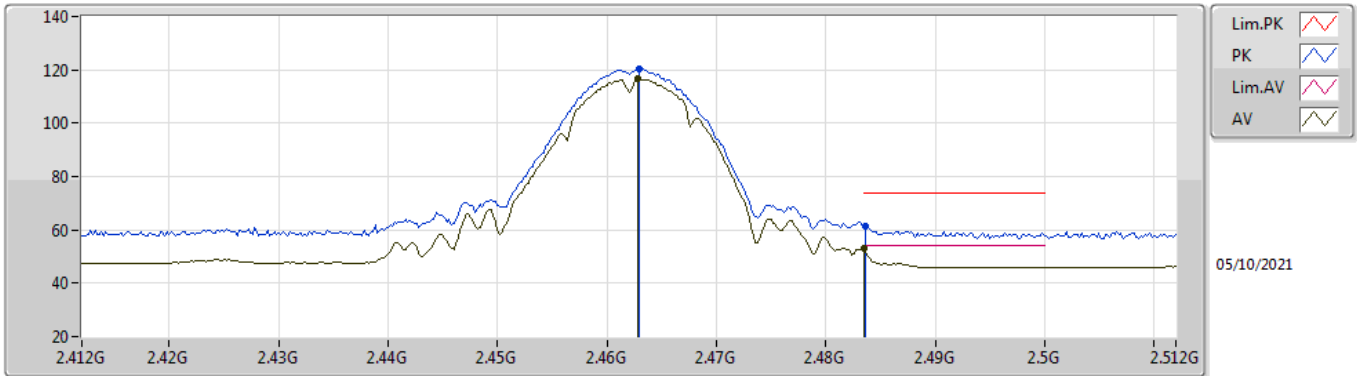


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	120.84	Inf	-Inf	89.96	3	Vertical	339	1.60	-	28.45	2.43	-
AV	2.4628G	116.97	Inf	-Inf	86.09	3	Vertical	339	1.60	-	28.45	2.43	-
PK	2.4835G	61.44	74.00	-12.56	30.47	3	Vertical	339	1.60	-	28.53	2.44	-
AV	2.4835G	52.96	54.00	-1.04	21.99	3	Vertical	339	1.60	-	28.53	2.44	-

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2462MHz\_TX

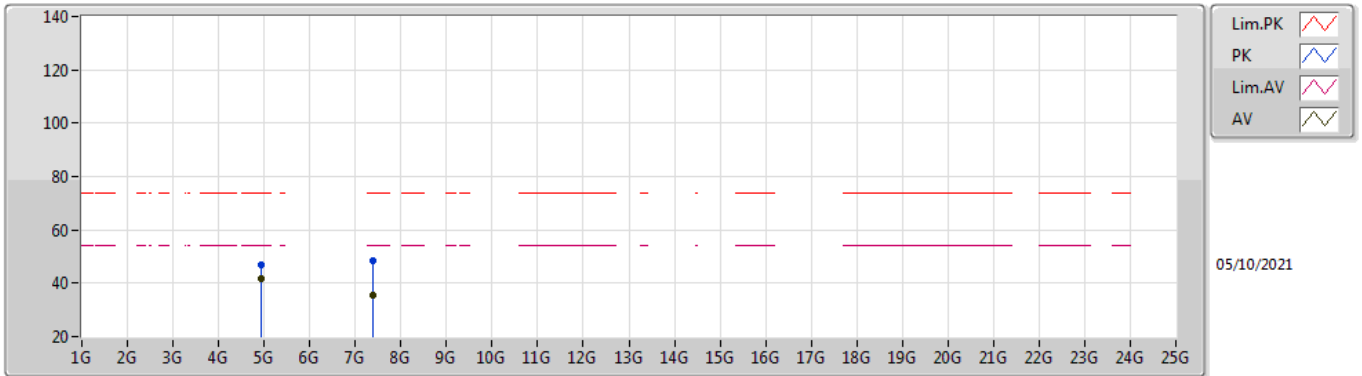


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	120.41	Inf	-Inf	89.53	3	Horizontal	342	1.76	-	28.45	2.43	-
AV	2.4628G	116.61	Inf	-Inf	85.73	3	Horizontal	342	1.76	-	28.45	2.43	-
PK	2.4836G	61.60	74.00	-12.40	30.63	3	Horizontal	342	1.76	-	28.53	2.44	-
AV	2.4835G	52.90	54.00	-1.10	21.93	3	Horizontal	342	1.76	-	28.53	2.44	-

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2462MHz\_TX

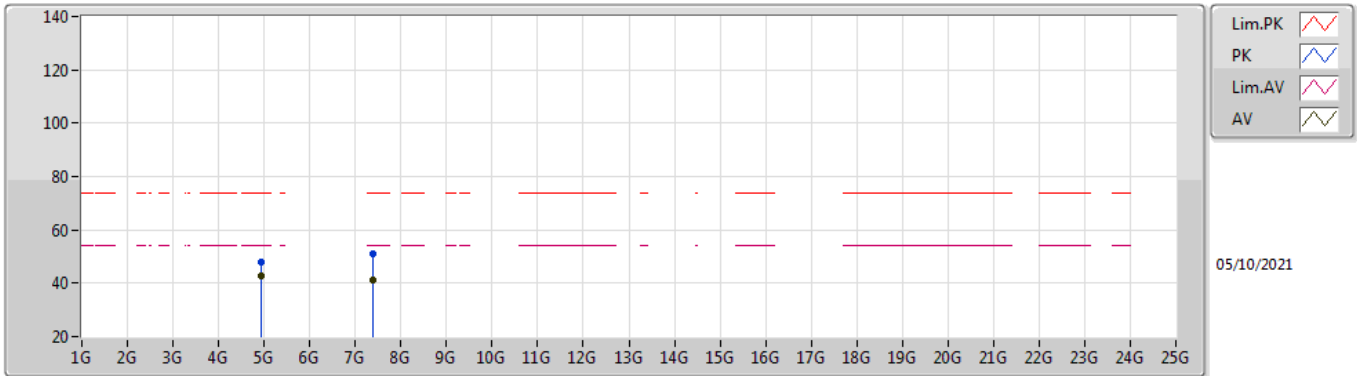


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92396G	46.96	74.00	-27.04	41.31	3	Vertical	244	1.80	-	33.14	4.70	32.19
AV	4.92406G	41.53	54.00	-12.47	35.88	3	Vertical	244	1.80	-	33.14	4.70	32.19
PK	7.38458G	48.55	74.00	-25.45	39.14	3	Vertical	210	1.38	-	36.57	5.79	32.95
AV	7.38704G	35.61	54.00	-18.39	26.20	3	Vertical	210	1.38	-	36.57	5.79	32.95

### 802.11b\_Nss1,(1Mbps)\_4TX

### 2462MHz\_TX

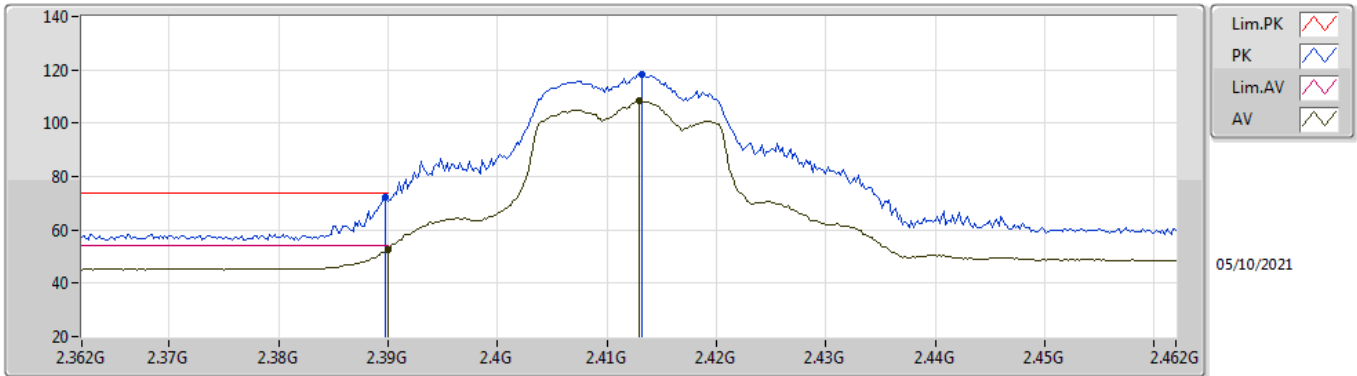


EUT Y\_4TX  
Setting 23  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92388G	47.87	74.00	-26.13	42.22	3	Horizontal	165	1.62	-	33.14	4.70	32.19
AV	4.92402G	42.77	54.00	-11.23	37.12	3	Horizontal	165	1.62	-	33.14	4.70	32.19
PK	7.38678G	51.17	74.00	-22.83	41.76	3	Horizontal	215	1.59	-	36.57	5.79	32.95
AV	7.38678G	41.44	54.00	-12.56	32.03	3	Horizontal	215	1.59	-	36.57	5.79	32.95

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2412MHz\_TX

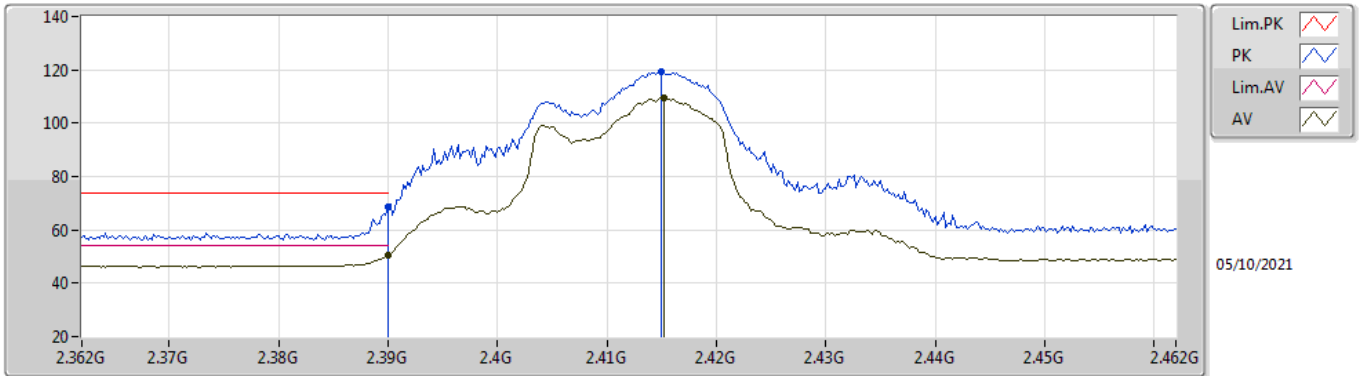


EUT Y\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	72.00	74.00	-2.00	41.21	3	Vertical	251	1.80	-	28.38	2.41	-
AV	2.39G	52.60	54.00	-1.40	21.82	3	Vertical	251	1.80	-	28.38	2.40	-
PK	2.4132G	118.48	Inf	-Inf	87.67	3	Vertical	251	1.80	-	28.40	2.41	-
AV	2.413G	108.35	Inf	-Inf	77.54	3	Vertical	251	1.80	-	28.40	2.41	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2412MHz\_TX



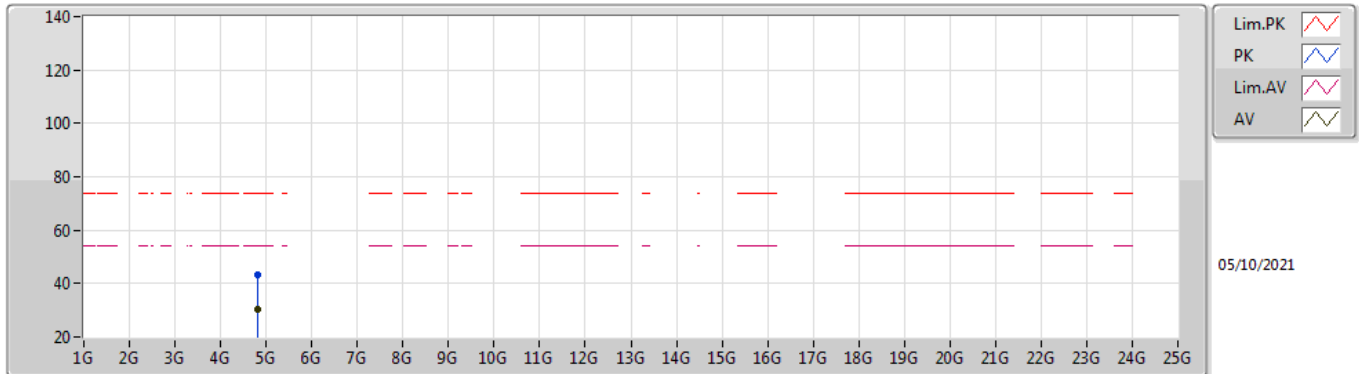
EUT Y\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	68.49	74.00	-5.51	37.70	3	Horizontal	103	2.38	-	28.38	2.41	-
AV	2.39G	50.50	54.00	-3.50	19.71	3	Horizontal	103	2.38	-	28.38	2.41	-
PK	2.415G	119.32	Inf	-Inf	88.51	3	Horizontal	103	2.38	-	28.40	2.41	-
AV	2.4152G	109.66	Inf	-Inf	78.85	3	Horizontal	103	2.38	-	28.40	2.41	-



### 802.11g\_Nss1,(6Mbps)\_4TX

### 2412MHz\_TX

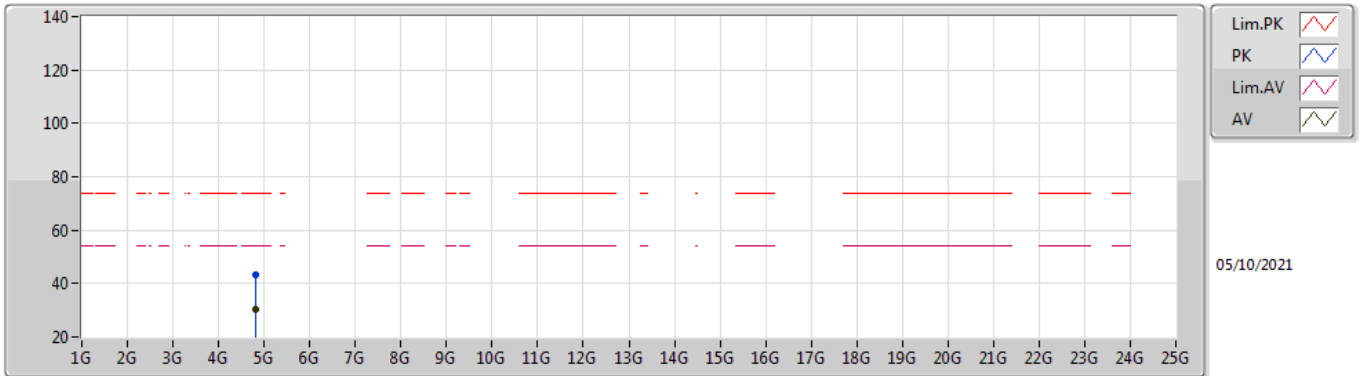


EUT Y\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82004G	43.21	74.00	-30.79	37.95	3	Vertical	338	2.49	-	32.78	4.70	32.22
AV	4.82438G	30.16	54.00	-23.84	24.88	3	Vertical	338	2.49	-	32.80	4.70	32.22

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2412MHz\_TX

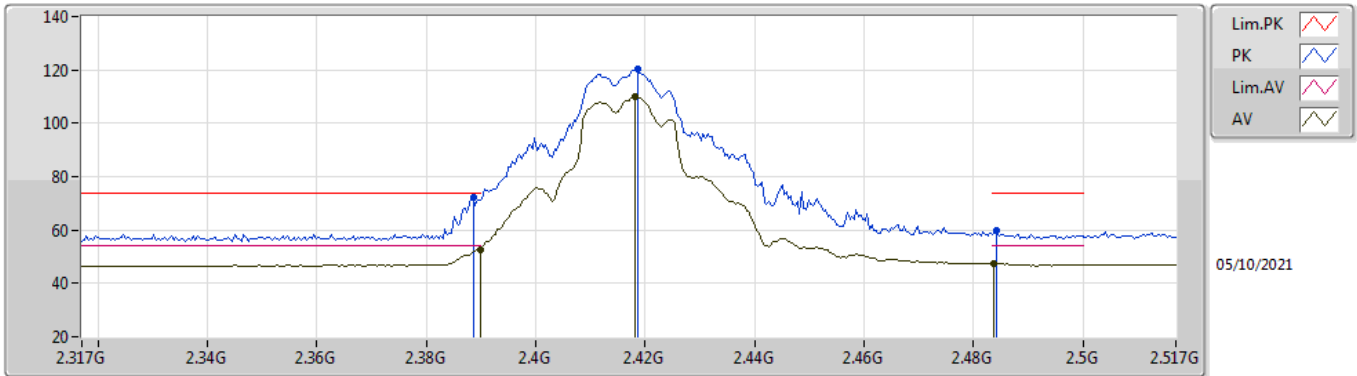


EUT Y\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82824G	43.46	74.00	-30.54	38.17	3	Horizontal	56	2.95	-	32.81	4.70	32.22
AV	4.82472G	30.13	54.00	-23.87	24.85	3	Horizontal	56	2.95	-	32.80	4.70	32.22

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2417MHz\_TX

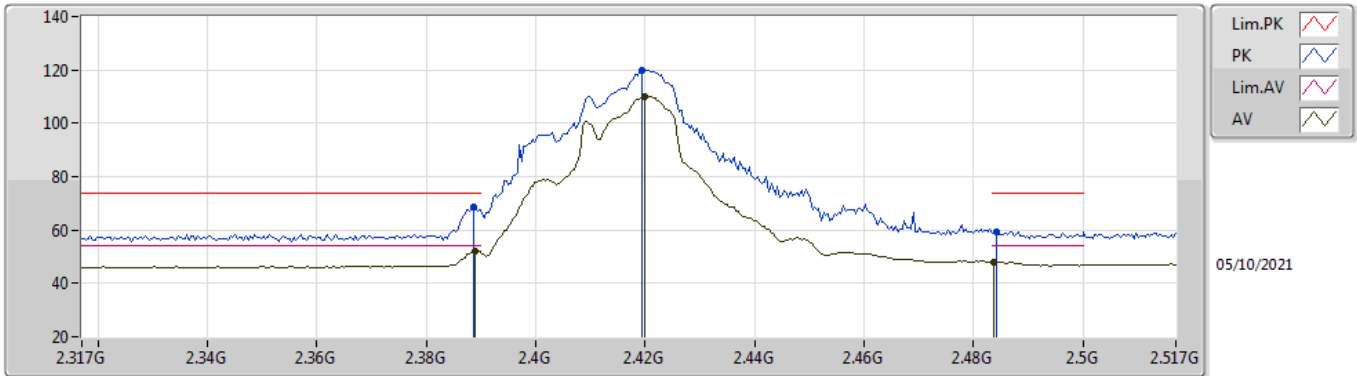


EUT\_V\_4TX  
Setting 22.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	72.03	74.00	-1.97	41.24	3	Vertical	250	1.82	-	28.38	2.41	-
AV	2.3898G	52.71	54.00	-1.29	21.92	3	Vertical	250	1.82	-	28.38	2.41	-
PK	2.4186G	120.13	Inf	-Inf	89.32	3	Vertical	250	1.82	-	28.40	2.41	-
AV	2.4182G	110.19	Inf	-Inf	79.38	3	Vertical	250	1.82	-	28.40	2.41	-
PK	2.4842G	59.62	74.00	-14.38	28.64	3	Vertical	250	1.82	-	28.54	2.44	-
AV	2.4838G	47.57	54.00	-6.43	16.59	3	Vertical	250	1.82	-	28.54	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2417MHz\_TX

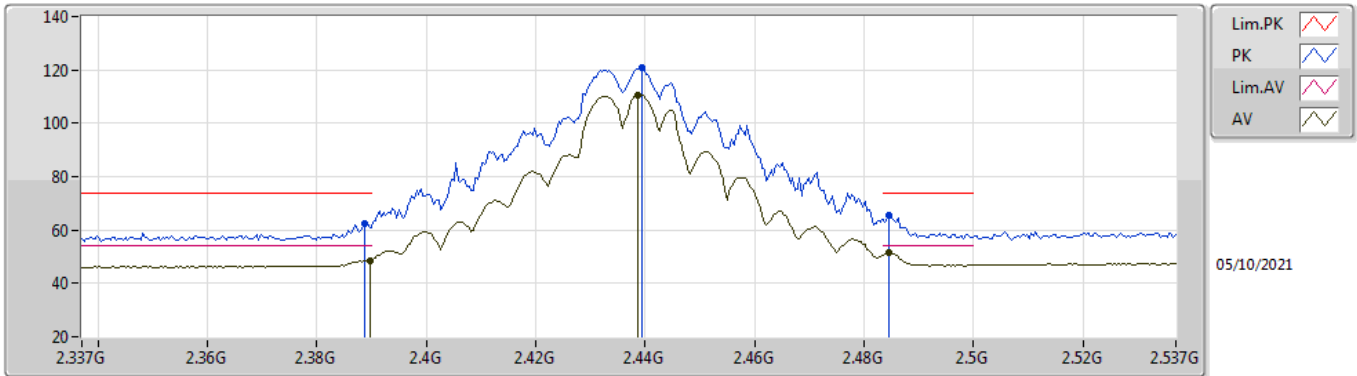


EUT\_Y\_4TX  
Setting 22.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	68.79	74.00	-5.21	38.00	3	Horizontal	84	2.20	-	28.38	2.41	-
AV	2.389G	52.24	54.00	-1.76	21.45	3	Horizontal	84	2.20	-	28.38	2.41	-
PK	2.4194G	119.72	Inf	-Inf	88.91	3	Horizontal	84	2.20	-	28.40	2.41	-
AV	2.4198G	110.24	Inf	-Inf	79.43	3	Horizontal	84	2.20	-	28.40	2.41	-
PK	2.4842G	59.24	74.00	-14.76	28.26	3	Horizontal	84	2.20	-	28.54	2.44	-
AV	2.4838G	48.05	54.00	-5.95	17.07	3	Horizontal	84	2.20	-	28.54	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2437MHz\_TX

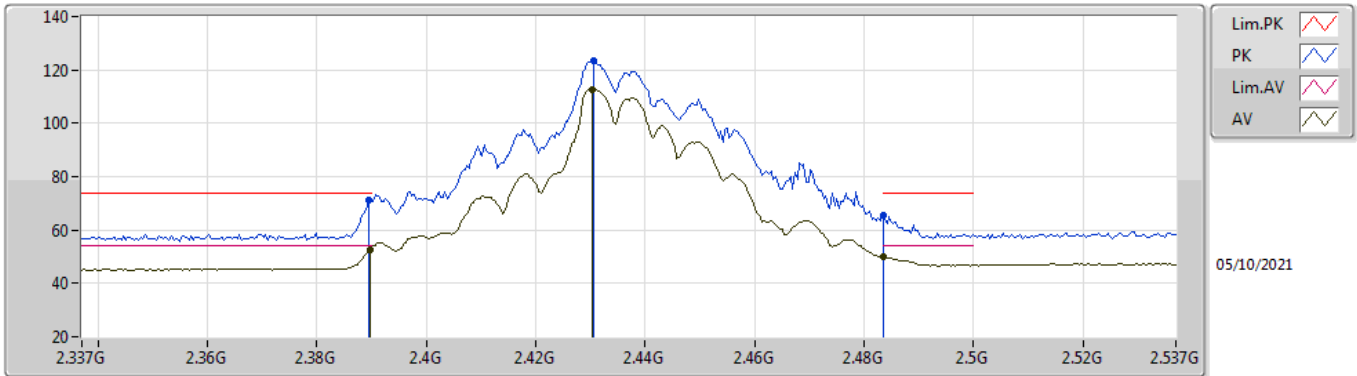


EUT\_V\_4TX  
Setting 25  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	62.67	74.00	-11.33	31.88	3	Vertical	250	2.41	-	28.38	2.41	-
AV	2.3898G	48.62	54.00	-5.38	17.83	3	Vertical	250	2.41	-	28.38	2.41	-
PK	2.4394G	121.12	Inf	-Inf	90.30	3	Vertical	250	2.41	-	28.40	2.42	-
AV	2.4386G	110.56	Inf	-Inf	79.74	3	Vertical	250	2.41	-	28.40	2.42	-
PK	2.4846G	65.53	74.00	-8.47	34.55	3	Vertical	250	2.41	-	28.54	2.44	-
AV	2.4846G	51.32	54.00	-2.68	20.34	3	Vertical	250	2.41	-	28.54	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2437MHz\_TX

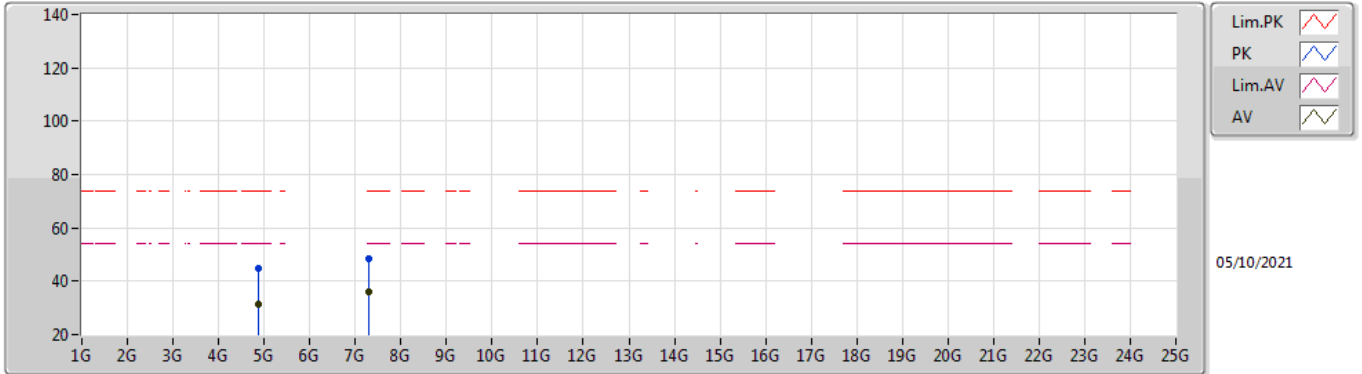


EUT\_V\_4TX  
Setting 25  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	71.29	74.00	-2.71	40.50	3	Horizontal	148	1.96	-	28.38	2.41	-
AV	2.3898G	52.58	54.00	-1.42	21.79	3	Horizontal	148	1.96	-	28.38	2.41	-
PK	2.4306G	123.20	Inf	-Inf	92.38	3	Horizontal	148	1.96	-	28.40	2.42	-
AV	2.4302G	112.84	Inf	-Inf	82.02	3	Horizontal	148	1.96	-	28.40	2.42	-
PK	2.4835G	65.63	74.00	-8.37	34.66	3	Horizontal	148	1.96	-	28.53	2.44	-
AV	2.4835G	49.81	54.00	-4.19	18.84	3	Horizontal	148	1.96	-	28.53	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2437MHz\_TX

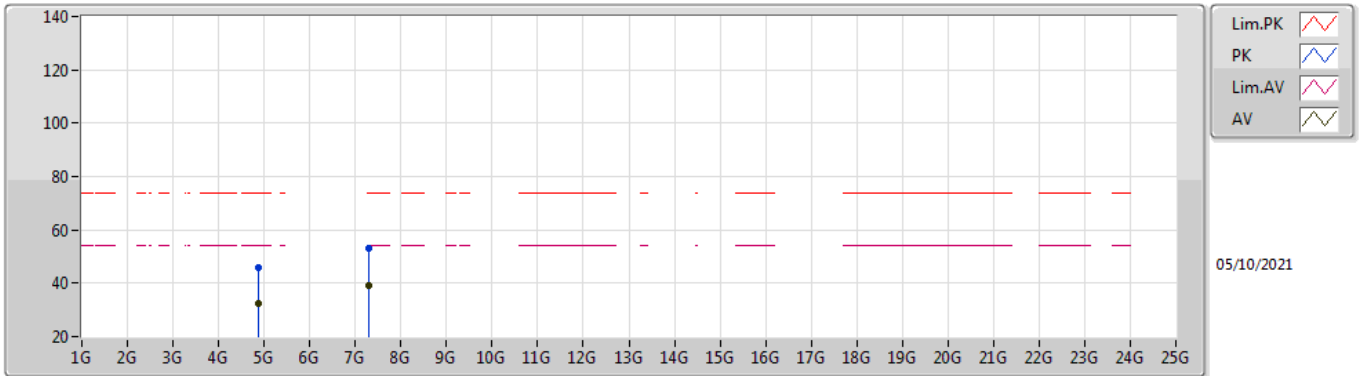


EUT Y\_4TX  
Setting 25  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8791G	44.74	74.00	-29.26	39.28	3	Vertical	102	1.57	-	32.96	4.70	32.20
AV	4.873G	31.52	54.00	-22.48	26.08	3	Vertical	102	1.57	-	32.95	4.70	32.21
PK	7.3057G	48.60	74.00	-25.40	39.25	3	Vertical	291	3.00	-	36.41	5.75	32.81
AV	7.3045G	36.08	54.00	-17.92	26.73	3	Vertical	291	3.00	-	36.41	5.75	32.81

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2437MHz\_TX



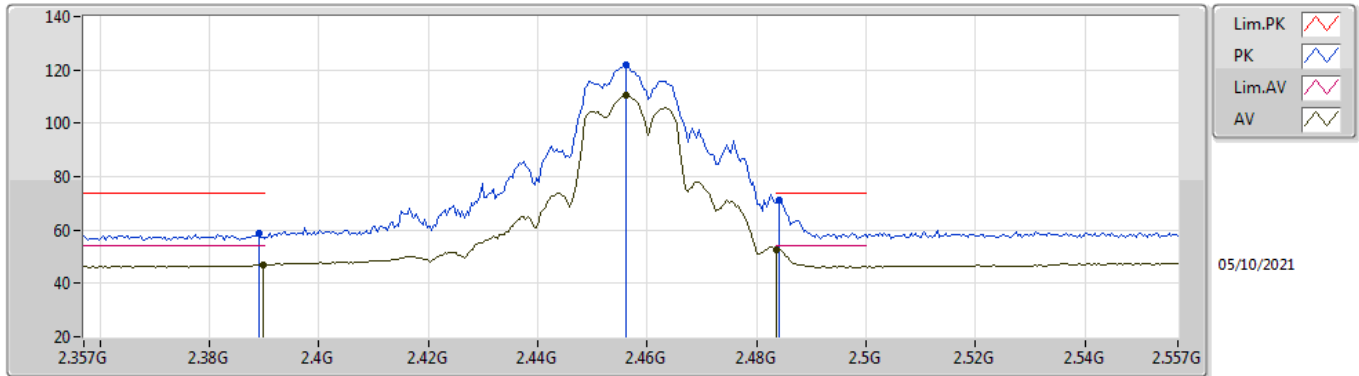
EUT Y\_4TX  
Setting 25  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8733G	45.81	74.00	-28.19	40.37	3	Horizontal	203	1.36	-	32.95	4.70	32.21
AV	4.8733G	32.66	54.00	-21.34	27.22	3	Horizontal	203	1.36	-	32.95	4.70	32.21
PK	7.30812G	52.93	74.00	-21.07	43.58	3	Horizontal	193	2.29	-	36.42	5.75	32.82
AV	7.30872G	39.15	54.00	-14.85	29.80	3	Horizontal	193	2.29	-	36.42	5.75	32.82



### 802.11g\_Nss1,(6Mbps)\_4TX

### 2457MHz\_TX

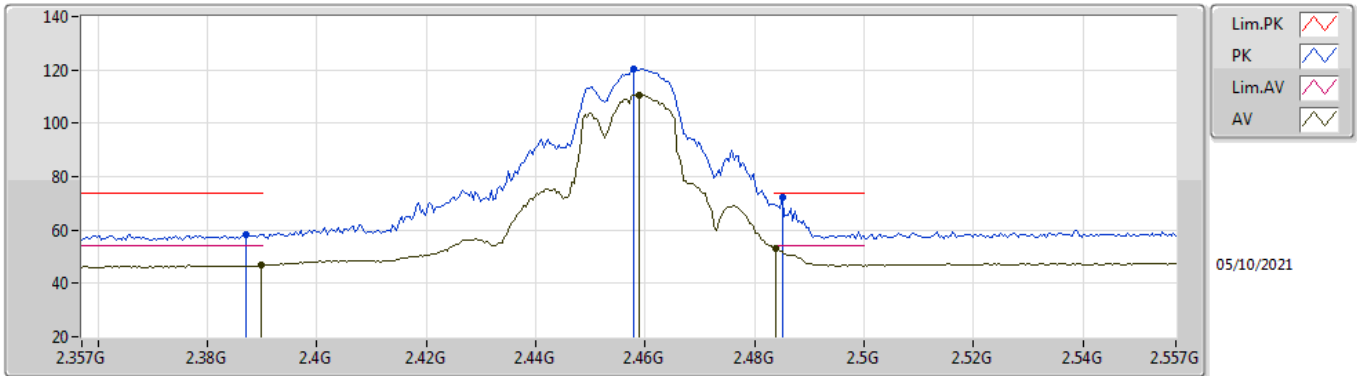


EUT\_Y\_4TX  
Setting 20.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	58.57	74.00	-15.43	27.78	3	Vertical	65	1.80	-	28.38	2.41	-
AV	2.3898G	46.86	54.00	-7.14	16.07	3	Vertical	65	1.80	-	28.38	2.41	-
PK	2.4562G	121.90	Inf	-Inf	91.05	3	Vertical	65	1.80	-	28.42	2.43	-
AV	2.4562G	110.70	Inf	-Inf	79.85	3	Vertical	65	1.80	-	28.42	2.43	-
PK	2.4842G	71.27	74.00	-2.73	40.29	3	Vertical	65	1.80	-	28.54	2.44	-
AV	2.4835G	52.77	54.00	-1.23	21.80	3	Vertical	65	1.80	-	28.53	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2457MHz\_TX

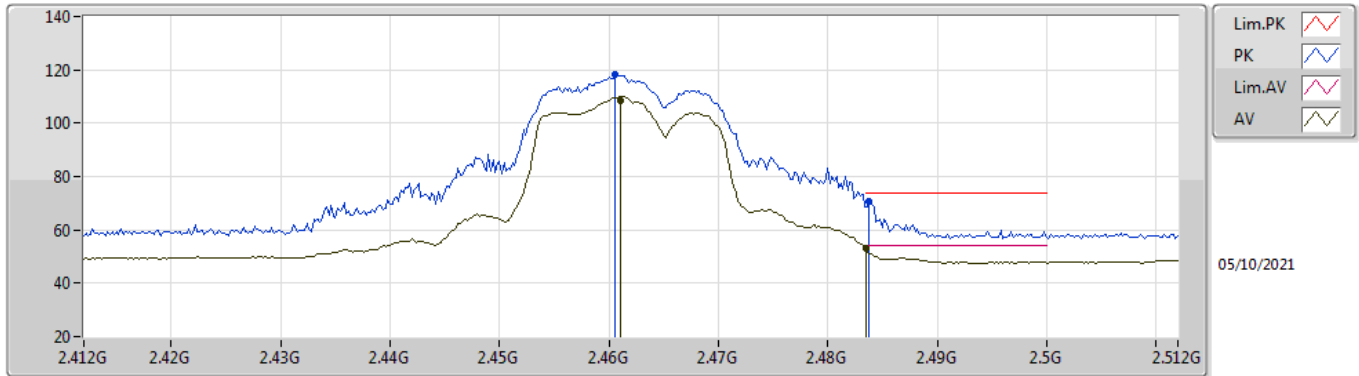


EUT\_V\_4TX  
Setting 20.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.387G	58.43	74.00	-15.57	27.65	3	Horizontal	114	1.92	-	28.37	2.41	-
AV	2.3898G	46.75	54.00	-7.25	15.96	3	Horizontal	114	1.92	-	28.38	2.41	-
PK	2.4578G	120.54	Inf	-Inf	89.68	3	Horizontal	114	1.92	-	28.43	2.43	-
AV	2.459G	110.75	Inf	-Inf	79.88	3	Horizontal	114	1.92	-	28.44	2.43	-
PK	2.485G	72.03	74.00	-1.97	41.05	3	Horizontal	114	1.92	-	28.54	2.44	-
AV	2.4838G	52.92	54.00	-1.08	21.94	3	Horizontal	114	1.92	-	28.54	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2462MHz\_TX

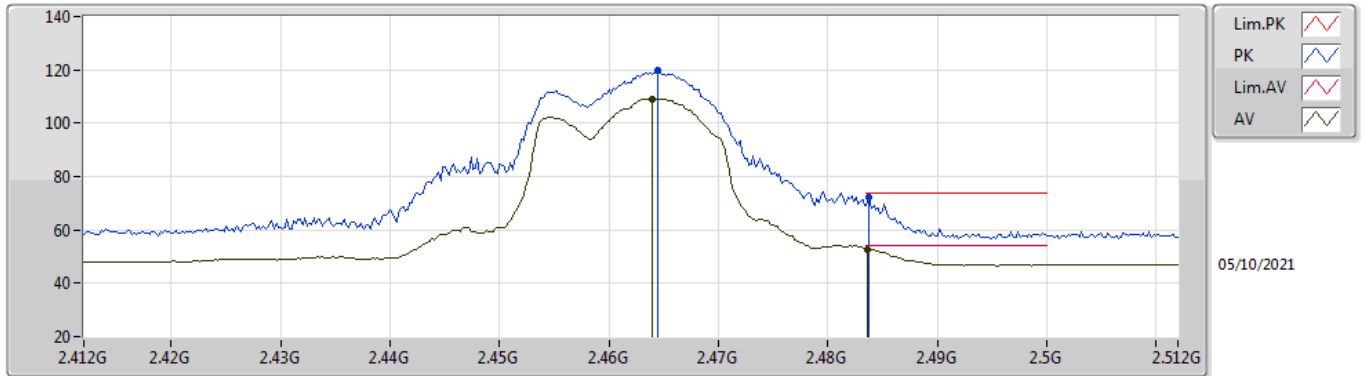


EUT Y\_4TX  
Setting 17.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4606G	118.07	Inf	-Inf	87.20	3	Vertical	67	1.80	-	28.44	2.43	-
AV	2.461G	108.50	Inf	-Inf	77.63	3	Vertical	67	1.80	-	28.44	2.43	-
PK	2.4838G	70.65	74.00	-3.35	39.67	3	Vertical	67	1.80	-	28.54	2.44	-
AV	2.4835G	52.95	54.00	-1.05	21.98	3	Vertical	67	1.80	-	28.53	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2462MHz\_TX

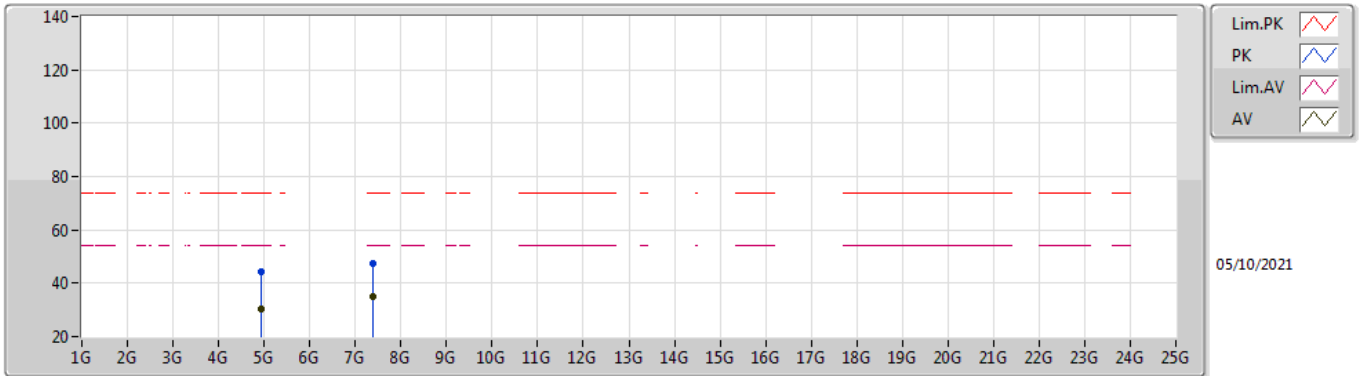


EUT Y\_4TX  
Setting 17.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4644G	119.90	Inf	-Inf	89.01	3	Horizontal	108	2.79	-	28.46	2.43	-
AV	2.464G	109.16	Inf	-Inf	78.27	3	Horizontal	108	2.79	-	28.46	2.43	-
PK	2.4838G	72.48	74.00	-1.52	41.50	3	Horizontal	108	2.79	-	28.54	2.44	-
AV	2.4836G	52.82	54.00	-1.18	21.85	3	Horizontal	108	2.79	-	28.53	2.44	-

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2462MHz\_TX

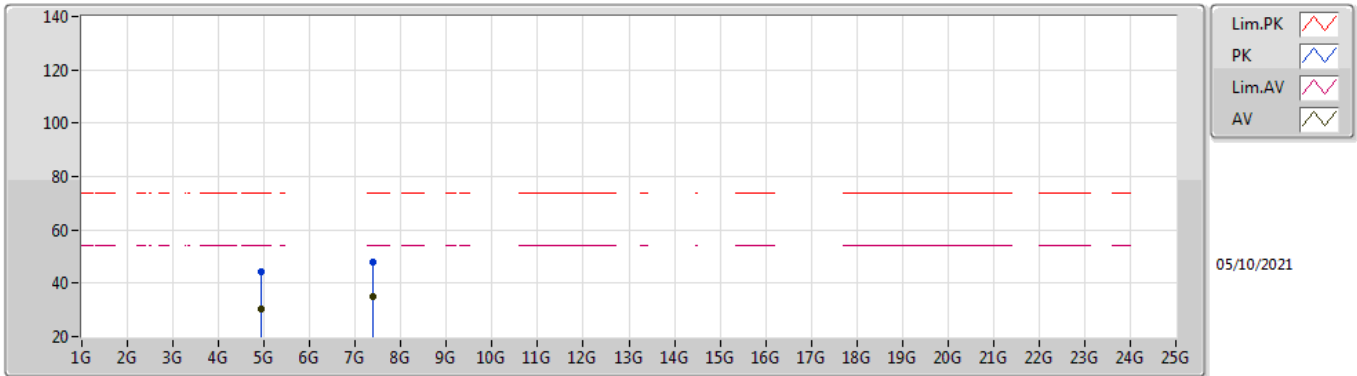


EUT Y\_4TX  
Setting 17.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92468G	44.33	74.00	-29.67	38.67	3	Vertical	307	1.89	-	33.15	4.70	32.19
AV	4.92728G	30.43	54.00	-23.57	24.76	3	Vertical	307	1.89	-	33.16	4.70	32.19
PK	7.38224G	47.66	74.00	-26.34	38.26	3	Vertical	209	2.26	-	36.56	5.79	32.95
AV	7.38962G	34.93	54.00	-19.07	25.52	3	Vertical	209	2.26	-	36.58	5.79	32.96

### 802.11g\_Nss1,(6Mbps)\_4TX

### 2462MHz\_TX

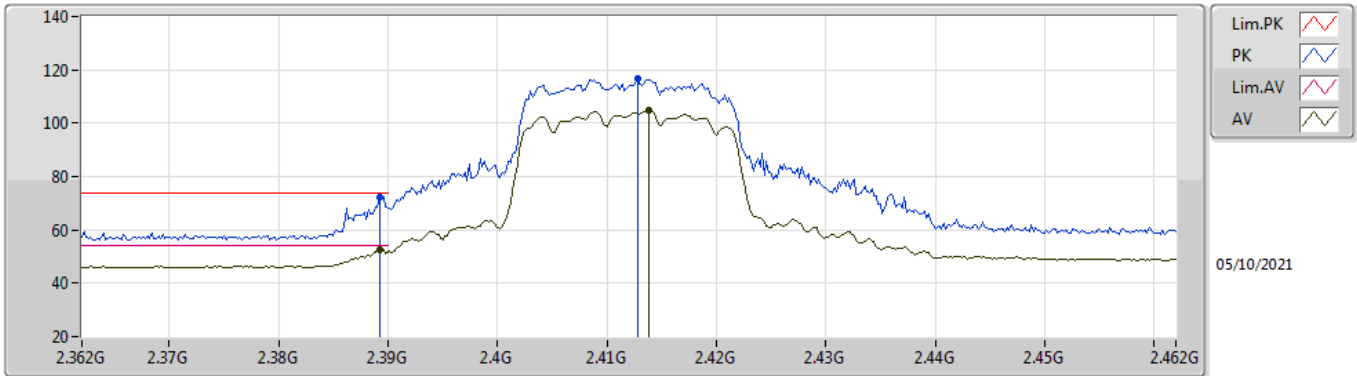


EUT Y\_4TX  
Setting 17.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92672G	44.17	74.00	-29.83	38.50	3	Horizontal	360	3.00	-	33.16	4.70	32.19
AV	4.92602G	30.38	54.00	-23.62	24.71	3	Horizontal	360	3.00	-	33.16	4.70	32.19
PK	7.38468G	48.01	74.00	-25.99	38.60	3	Horizontal	54	1.84	-	36.57	5.79	32.95
AV	7.38828G	35.00	54.00	-19.00	25.59	3	Horizontal	54	1.84	-	36.58	5.79	32.96

802.11ax HEW20\_Nss1,(MCS0)\_4TX

2412MHz\_TX

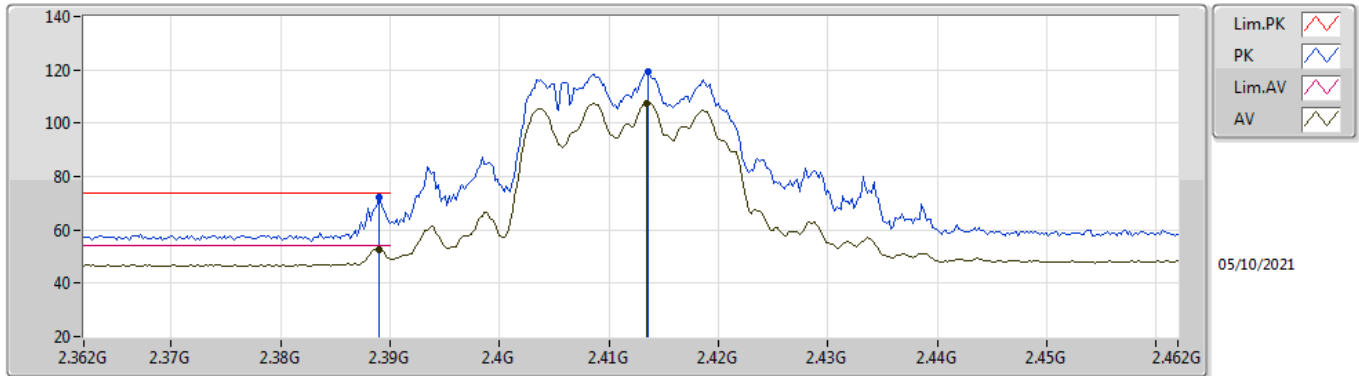


EUT Y\_4TX  
Setting 17  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	72.49	74.00	-1.51	41.70	3	Vertical	247	1.86	-	28.38	2.41	-
AV	2.3892G	52.84	54.00	-1.16	22.05	3	Vertical	247	1.86	-	28.38	2.41	-
PK	2.4128G	116.49	Inf	-Inf	85.68	3	Vertical	247	1.86	-	28.40	2.41	-
AV	2.4138G	104.91	Inf	-Inf	74.10	3	Vertical	247	1.86	-	28.40	2.41	-

802.11ax HEW20\_Nss1,(MCS0)\_4TX

2412MHz\_TX



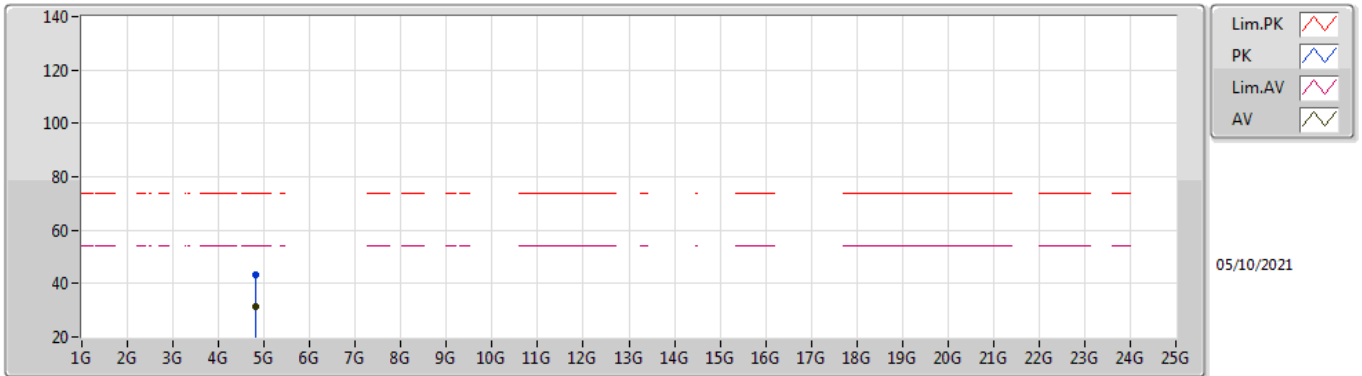
EUT Y\_4TX  
Setting 17  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.389G	72.39	74.00	-1.61	41.60	3	Horizontal	152	2.43	-	28.38	2.41	-
AV	2.389G	52.58	54.00	-1.42	21.79	3	Horizontal	152	2.43	-	28.38	2.41	-
PK	2.413G	119.42	Inf	-Inf	88.61	3	Horizontal	152	2.43	-	28.40	2.41	-
AV	2.4134G	107.57	Inf	-Inf	76.76	3	Horizontal	152	2.43	-	28.40	2.41	-



802.11ax HEW20\_Nss1,(MCS0)\_4TX

2412MHz\_TX

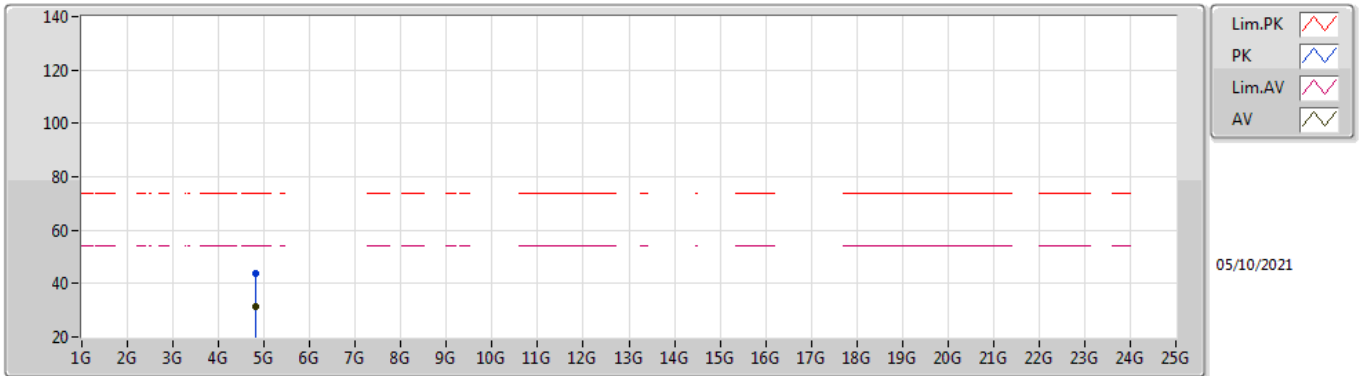


EUT Y\_4TX  
Setting 17  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8193G	43.46	74.00	-30.54	38.21	3	Vertical	116	1.89	-	32.78	4.70	32.23
AV	4.82406G	31.35	54.00	-22.65	26.07	3	Vertical	116	1.89	-	32.80	4.70	32.22

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2412MHz\_TX

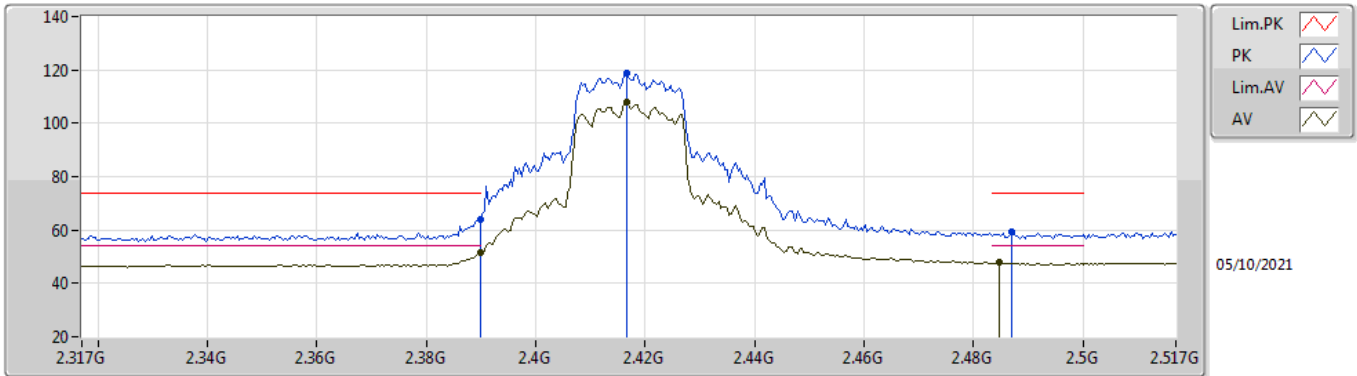


EUT Y\_4TX  
Setting 17  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82688G	43.75	74.00	-30.25	38.46	3	Horizontal	92	2.70	-	32.81	4.70	32.22
AV	4.82426G	31.29	54.00	-22.71	26.01	3	Horizontal	92	2.70	-	32.80	4.70	32.22

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2417MHz\_TX

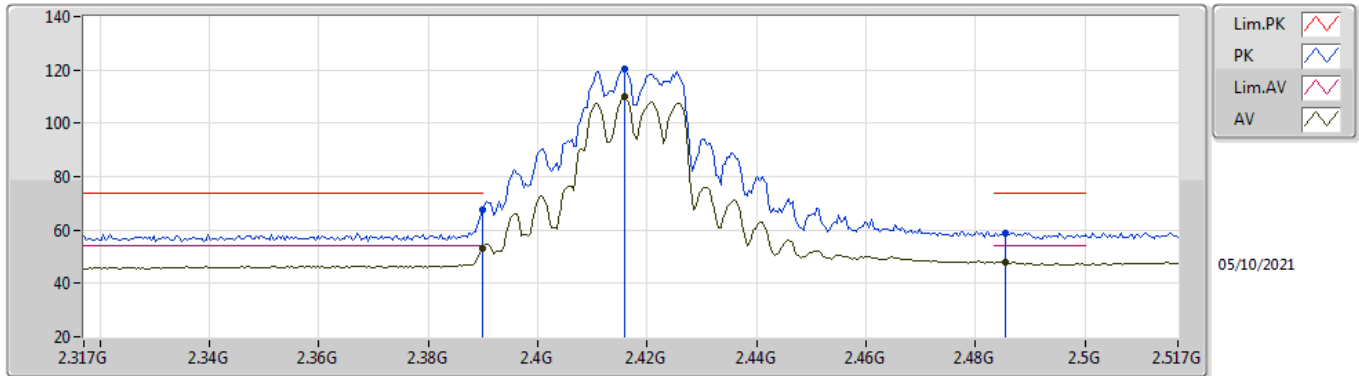


EUT Y\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	64.06	74.00	-9.94	33.27	3	Vertical	253	1.68	-	28.38	2.41	-
AV	2.3898G	51.74	54.00	-2.26	20.95	3	Vertical	253	1.68	-	28.38	2.41	-
PK	2.4166G	118.80	Inf	-Inf	87.99	3	Vertical	253	1.68	-	28.40	2.41	-
AV	2.4166G	107.73	Inf	-Inf	76.92	3	Vertical	253	1.68	-	28.40	2.41	-
PK	2.487G	59.18	74.00	-14.82	28.19	3	Vertical	253	1.68	-	28.55	2.44	-
AV	2.4846G	47.72	54.00	-6.28	16.74	3	Vertical	253	1.68	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2417MHz\_TX

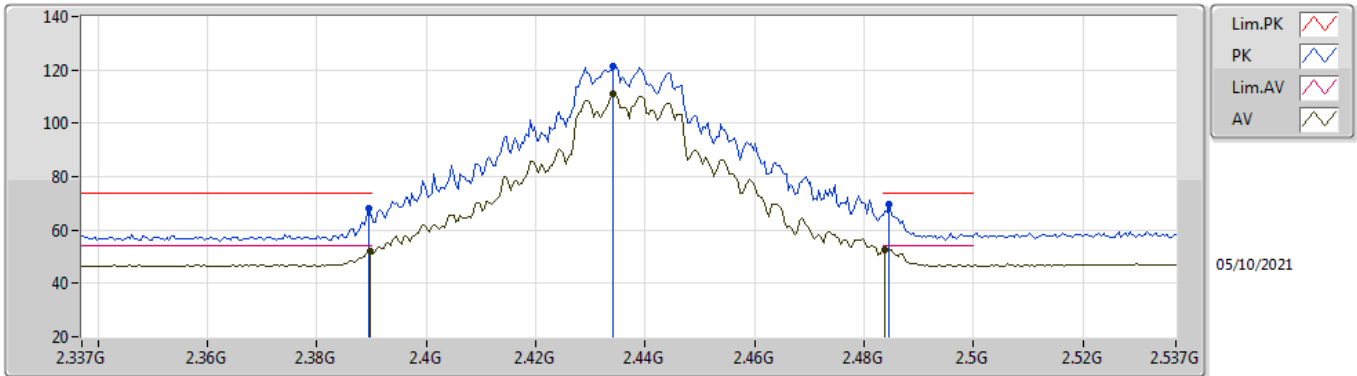


EUT\_Y\_4TX  
Setting 19.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	67.45	74.00	-6.55	36.66	3	Horizontal	122	1.95	-	28.38	2.41	-
AV	2.3898G	52.95	54.00	-1.05	22.16	3	Horizontal	122	1.95	-	28.38	2.41	-
PK	2.4158G	120.33	Inf	-Inf	89.52	3	Horizontal	122	1.95	-	28.40	2.41	-
AV	2.4158G	109.92	Inf	-Inf	79.11	3	Horizontal	122	1.95	-	28.40	2.41	-
PK	2.4854G	58.89	74.00	-15.11	27.91	3	Horizontal	122	1.95	-	28.54	2.44	-
AV	2.4854G	48.12	54.00	-5.88	17.14	3	Horizontal	122	1.95	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2437MHz\_TX

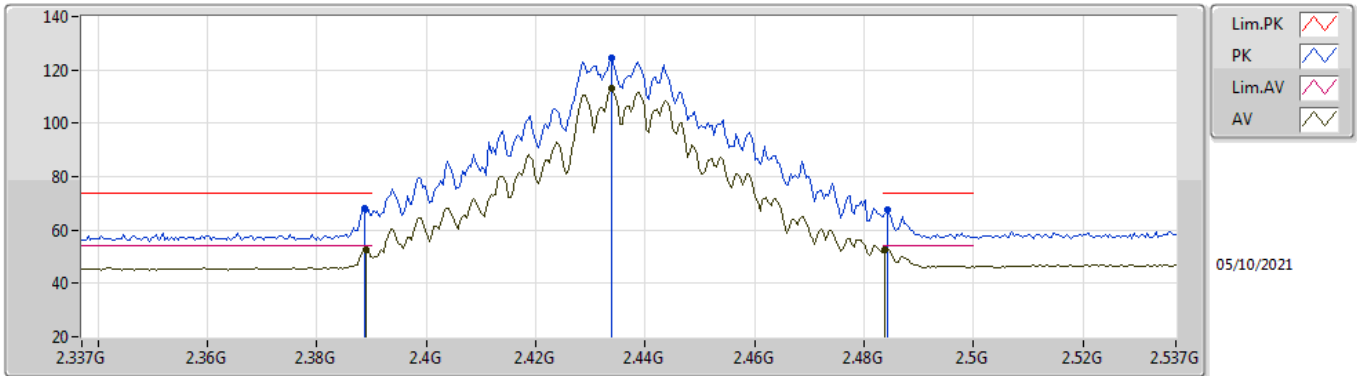


EUT V\_4TX  
Setting 23.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	67.99	74.00	-6.01	37.20	3	Vertical	82	1.48	-	28.38	2.41	-
AV	2.3898G	52.25	54.00	-1.75	21.46	3	Vertical	82	1.48	-	28.38	2.41	-
PK	2.4342G	121.47	Inf	-Inf	90.65	3	Vertical	82	1.48	-	28.40	2.42	-
AV	2.4342G	110.83	Inf	-Inf	80.01	3	Vertical	82	1.48	-	28.40	2.42	-
PK	2.4846G	69.49	74.00	-4.51	38.51	3	Vertical	82	1.48	-	28.54	2.44	-
AV	2.4838G	52.69	54.00	-1.31	21.71	3	Vertical	82	1.48	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2437MHz\_TX

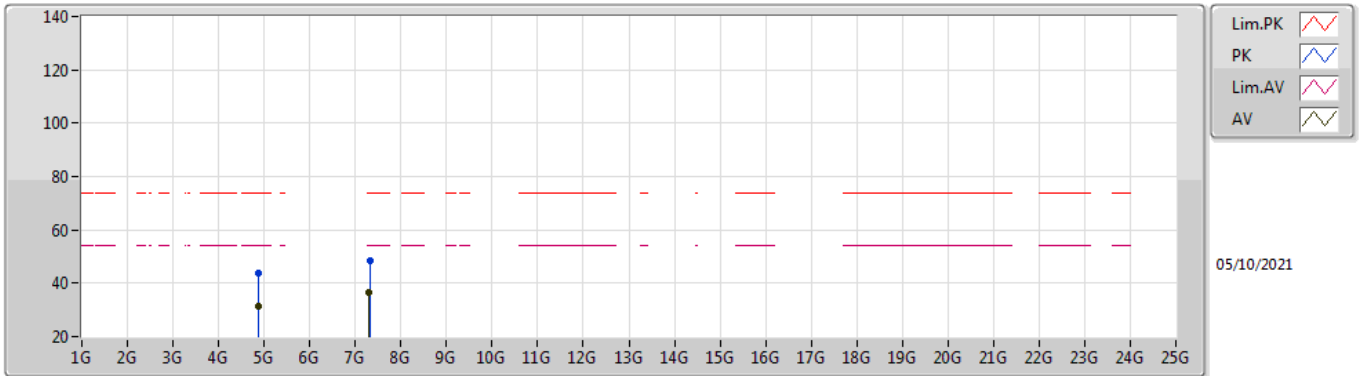


EUT\_V\_4TX  
Setting 23.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	67.87	74.00	-6.13	37.08	3	Horizontal	149	1.98	-	28.38	2.41	-
AV	2.389G	52.71	54.00	-1.29	21.92	3	Horizontal	149	1.98	-	28.38	2.41	-
PK	2.4338G	124.29	Inf	-Inf	93.47	3	Horizontal	149	1.98	-	28.40	2.42	-
AV	2.4338G	113.23	Inf	-Inf	82.41	3	Horizontal	149	1.98	-	28.40	2.42	-
PK	2.4842G	67.45	74.00	-6.55	36.47	3	Horizontal	149	1.98	-	28.54	2.44	-
AV	2.4838G	52.62	54.00	-1.38	21.64	3	Horizontal	149	1.98	-	28.54	2.44	-

802.11ax HEW20\_Nss1,(MCS0)\_4TX

2437MHz\_TX

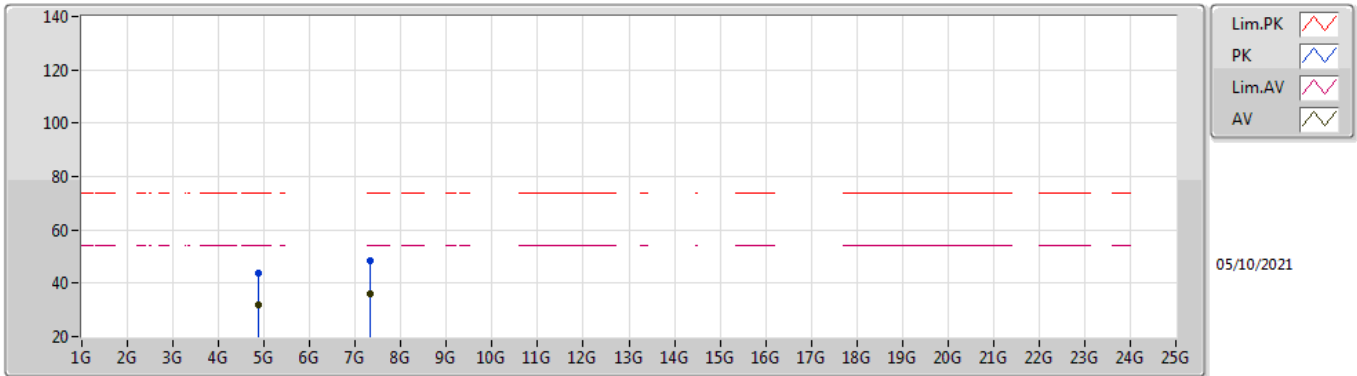


EUT Y\_4TX  
Setting 23.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8772G	43.90	74.00	-30.10	38.45	3	Vertical	102	1.96	-	32.95	4.70	32.20
AV	4.87602G	31.53	54.00	-22.47	26.08	3	Vertical	102	1.96	-	32.95	4.70	32.20
PK	7.31058G	48.46	74.00	-25.54	39.10	3	Vertical	181	2.96	-	36.42	5.76	32.82
AV	7.30984G	36.40	54.00	-17.60	27.05	3	Vertical	181	2.96	-	36.42	5.75	32.82

802.11ax HEW20\_Nss1,(MCS0)\_4TX

2437MHz\_TX



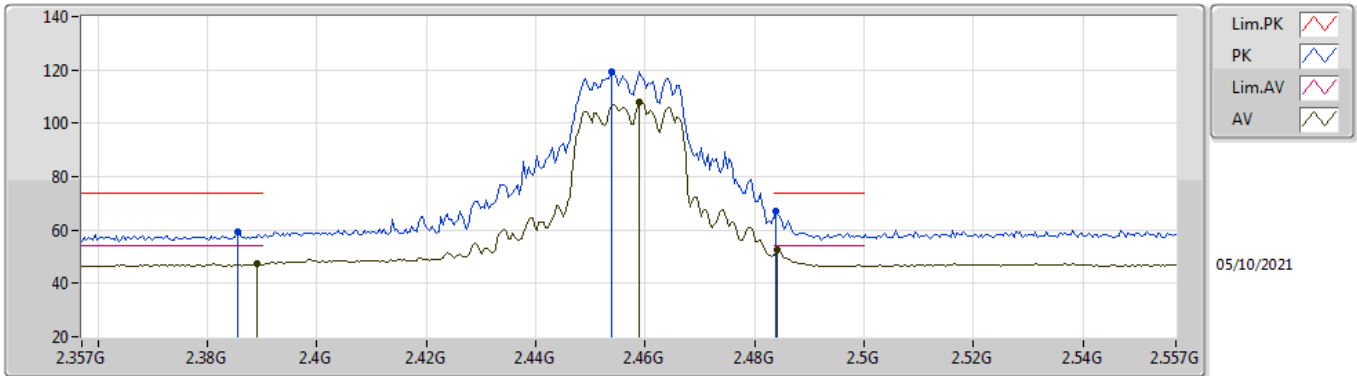
EUT Y\_4TX  
Setting 23.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87278G	43.94	74.00	-30.06	38.50	3	Horizontal	20	1.80	-	32.95	4.70	32.21
AV	4.87214G	31.88	54.00	-22.12	26.45	3	Horizontal	20	1.80	-	32.94	4.70	32.21
PK	7.31446G	48.62	74.00	-25.38	39.26	3	Horizontal	116	1.53	-	36.43	5.76	32.83
AV	7.3147G	36.09	54.00	-17.91	26.73	3	Horizontal	116	1.53	-	36.43	5.76	32.83



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2457MHz\_TX

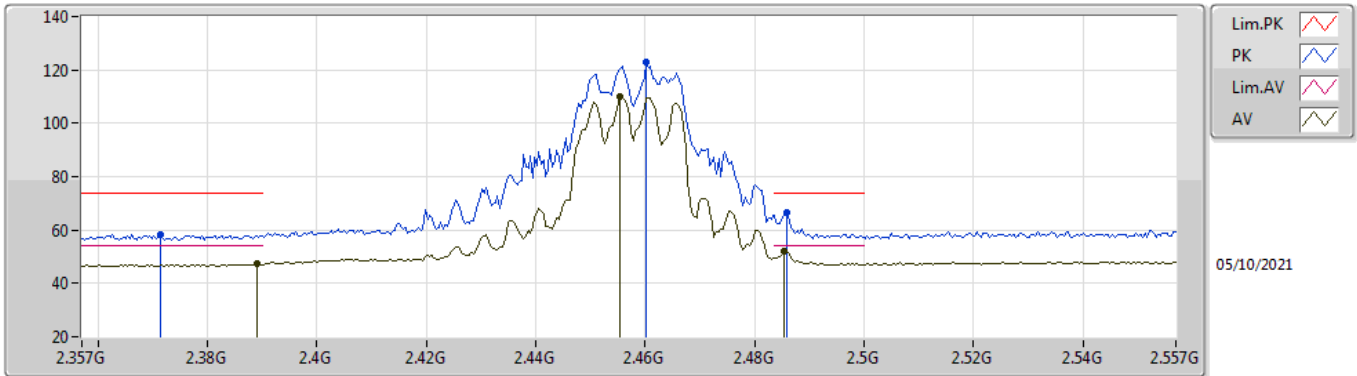


EUT Y\_4TX  
Setting 17  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	59.19	74.00	-14.81	28.41	3	Vertical	78	1.80	-	28.37	2.41	-
AV	2.389G	47.39	54.00	-6.61	16.60	3	Vertical	78	1.80	-	28.38	2.41	-
PK	2.4538G	119.31	Inf	-Inf	88.46	3	Vertical	78	1.80	-	28.42	2.43	-
AV	2.459G	107.70	Inf	-Inf	76.83	3	Vertical	78	1.80	-	28.44	2.43	-
PK	2.4838G	67.26	74.00	-6.74	36.28	3	Vertical	78	1.80	-	28.54	2.44	-
AV	2.4842G	52.79	54.00	-1.21	21.81	3	Vertical	78	1.80	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2457MHz\_TX

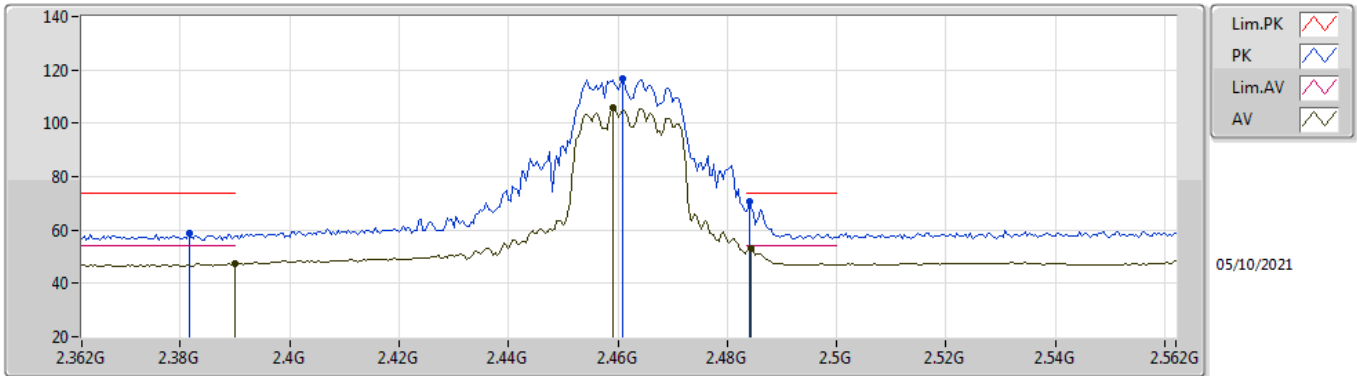


EUT Y\_4TX  
Setting 18  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3714G	58.39	74.00	-15.61	27.64	3	Horizontal	100	2.81	-	28.34	2.41	-
AV	2.389G	47.26	54.00	-6.74	16.47	3	Horizontal	100	2.81	-	28.38	2.41	-
PK	2.4602G	122.72	Inf	-Inf	91.85	3	Horizontal	100	2.81	-	28.44	2.43	-
AV	2.4554G	110.16	Inf	-Inf	79.31	3	Horizontal	100	2.81	-	28.42	2.43	-
PK	2.4858G	66.38	74.00	-7.62	35.40	3	Horizontal	100	2.81	-	28.54	2.44	-
AV	2.4854G	51.87	54.00	-2.13	20.89	3	Horizontal	100	2.81	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2462MHz\_TX

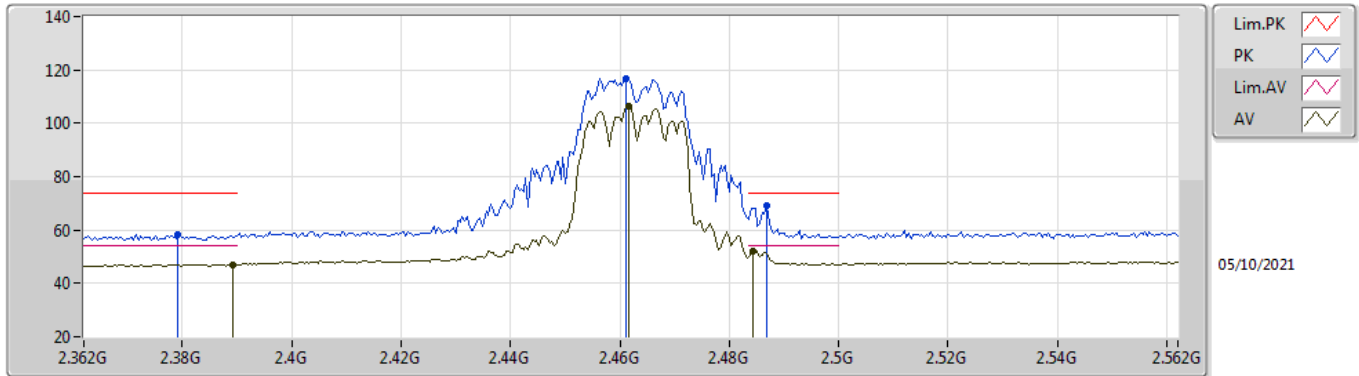


EUT Y\_4TX  
Setting 16  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3816G	58.69	74.00	-15.31	27.92	3	Vertical	77	2.40	-	28.36	2.41	-
AV	2.39G	47.29	54.00	-6.71	16.50	3	Vertical	77	2.40	-	28.38	2.41	-
PK	2.4608G	116.80	Inf	-Inf	85.93	3	Vertical	77	2.40	-	28.44	2.43	-
AV	2.4592G	105.74	Inf	-Inf	74.87	3	Vertical	77	2.40	-	28.44	2.43	-
PK	2.484G	70.70	74.00	-3.30	39.72	3	Vertical	77	2.40	-	28.54	2.44	-
AV	2.4844G	52.91	54.00	-1.09	21.93	3	Vertical	77	2.40	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2462MHz\_TX

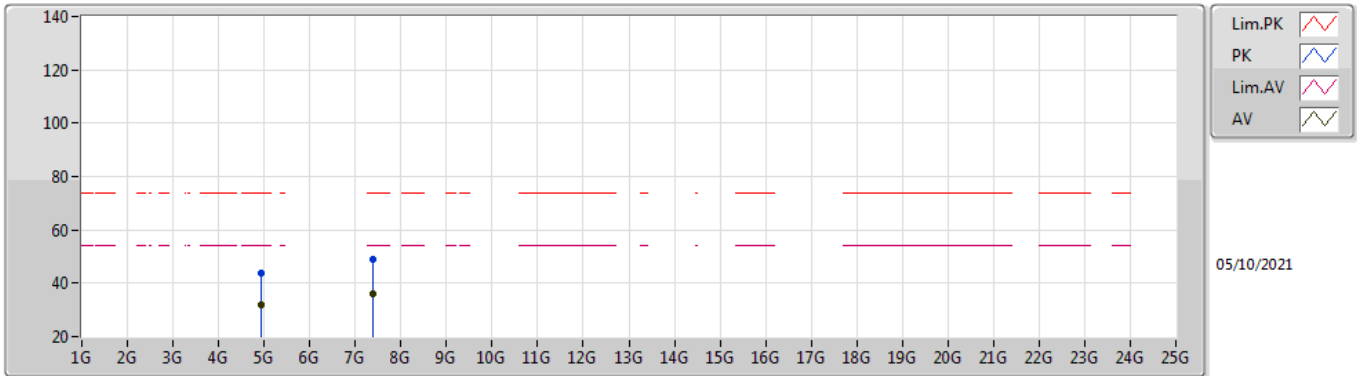


EUT Y\_4TX  
Setting 16  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3792G	58.28	74.00	-15.72	27.51	3	Horizontal	343	1.80	-	28.36	2.41	-
AV	2.3892G	47.03	54.00	-6.97	16.24	3	Horizontal	343	1.80	-	28.38	2.41	-
PK	2.4612G	116.95	Inf	-Inf	86.08	3	Horizontal	343	1.80	-	28.44	2.43	-
AV	2.4616G	106.57	Inf	-Inf	75.69	3	Horizontal	343	1.80	-	28.45	2.43	-
PK	2.4868G	68.94	74.00	-5.06	37.95	3	Horizontal	343	1.80	-	28.55	2.44	-
AV	2.4844G	51.97	54.00	-2.03	20.99	3	Horizontal	343	1.80	-	28.54	2.44	-

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2462MHz\_TX

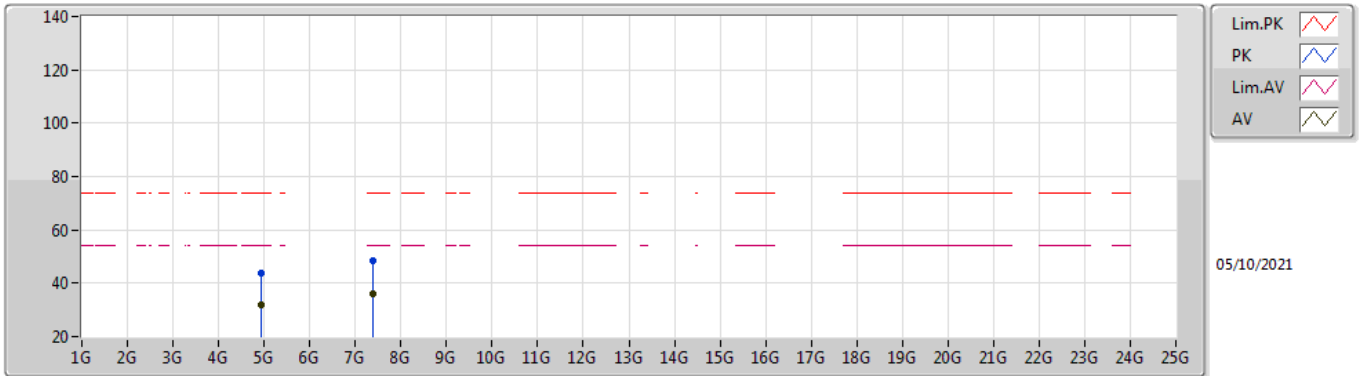


EUT Y\_4TX  
Setting 16  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92714G	43.77	74.00	-30.23	38.10	3	Vertical	160	2.23	-	33.16	4.70	32.19
AV	4.9274G	31.73	54.00	-22.27	26.06	3	Vertical	160	2.23	-	33.16	4.70	32.19
PK	7.38266G	48.80	74.00	-25.20	39.39	3	Vertical	181	2.40	-	36.57	5.79	32.95
AV	7.3892G	36.19	54.00	-17.81	26.78	3	Vertical	181	2.40	-	36.58	5.79	32.96

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

### 2462MHz\_TX

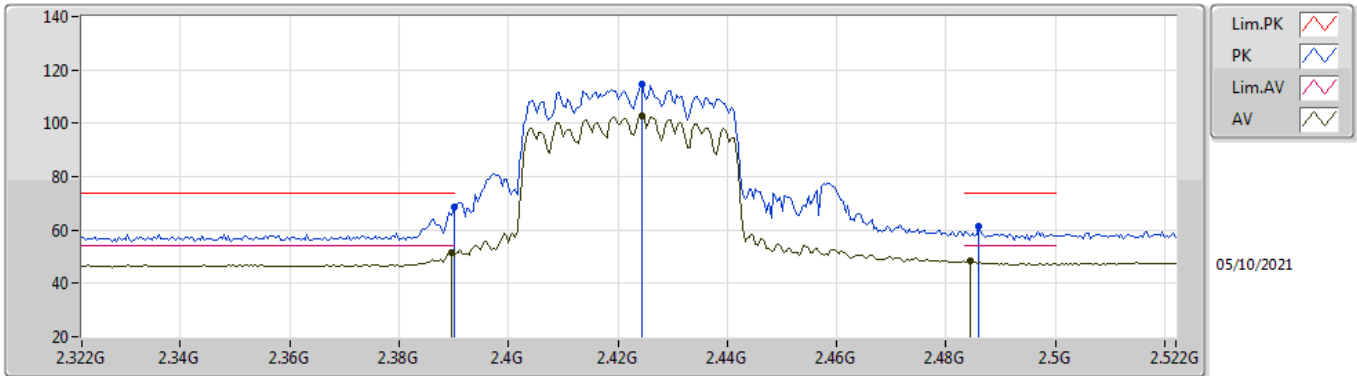


EUT Y\_4TX  
Setting 16  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92474G	43.97	74.00	-30.03	38.31	3	Horizontal	251	1.32	-	33.15	4.70	32.19
AV	4.92102G	31.66	54.00	-22.34	26.02	3	Horizontal	251	1.32	-	33.13	4.70	32.19
PK	7.3832G	48.58	74.00	-25.42	39.17	3	Horizontal	297	1.11	-	36.57	5.79	32.95
AV	7.3828G	36.26	54.00	-17.74	26.85	3	Horizontal	297	1.11	-	36.57	5.79	32.95

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2422MHz\_TX

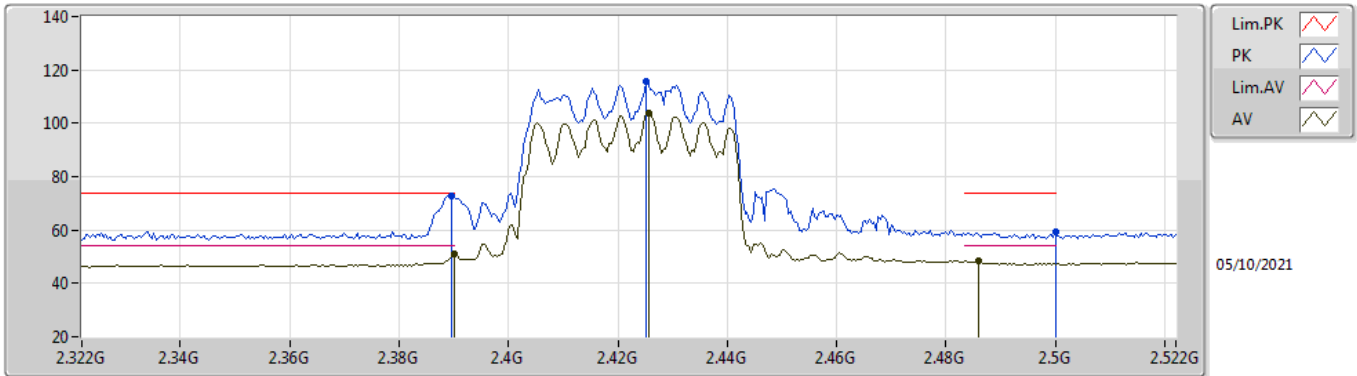


EUT Y\_4TX  
Setting 15.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	68.69	74.00	-5.31	37.90	3	Vertical	74	2.28	-	28.38	2.41	-
AV	2.3896G	51.44	54.00	-2.56	20.65	3	Vertical	74	2.28	-	28.38	2.41	-
PK	2.4244G	114.84	Inf	-Inf	84.03	3	Vertical	74	2.28	-	28.40	2.41	-
AV	2.4244G	102.90	Inf	-Inf	72.09	3	Vertical	74	2.28	-	28.40	2.41	-
PK	2.486G	61.50	74.00	-12.50	30.52	3	Vertical	74	2.28	-	28.54	2.44	-
AV	2.4844G	48.26	54.00	-5.74	17.28	3	Vertical	74	2.28	-	28.54	2.44	-

802.11ax HEW40\_Nss1,(MCS0)\_4TX

2422MHz\_TX



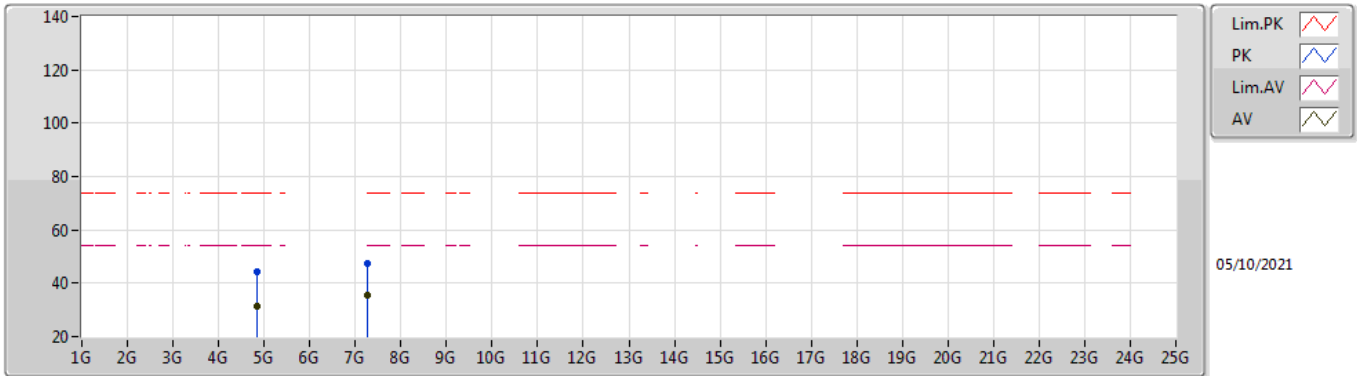
EUT\_Y\_4TX  
Setting 15.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.78	54.00	-3.22	19.99	3	Horizontal	105	2.90	-	28.38	2.41	-
PK	2.4252G	115.48	Inf	-Inf	84.67	3	Horizontal	105	2.90	-	28.40	2.41	-
AV	2.4256G	103.74	Inf	-Inf	72.93	3	Horizontal	105	2.90	-	28.40	2.41	-
PK	2.5G	59.43	74.00	-14.57	28.38	3	Horizontal	105	2.90	-	28.60	2.45	-
AV	2.486G	48.63	54.00	-5.37	17.65	3	Horizontal	105	2.90	-	28.54	2.44	-
PK	2.3896G	72.74	74.00	-1.26	41.95	3	Horizontal	105	2.90	-	28.38	2.41	-



802.11ax HEW40\_Nss1,(MCS0)\_4TX

2422MHz\_TX

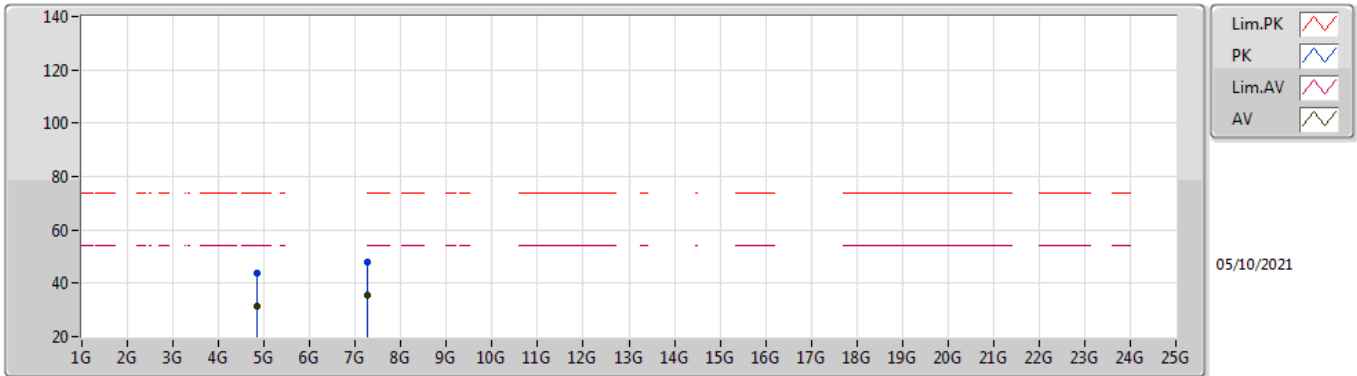


EUT Y\_4TX  
Setting 15.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84068G	44.14	74.00	-29.86	38.80	3	Vertical	276	1.06	-	32.86	4.70	32.22
AV	4.8447G	31.43	54.00	-22.57	26.07	3	Vertical	276	1.06	-	32.88	4.70	32.22
PK	7.2682G	47.22	74.00	-26.78	38.03	3	Vertical	206	1.51	-	36.21	5.73	32.75
AV	7.27004G	35.43	54.00	-18.57	26.22	3	Vertical	206	1.51	-	36.22	5.74	32.75

802.11ax HEW40\_Nss1,(MCS0)\_4TX

2422MHz\_TX

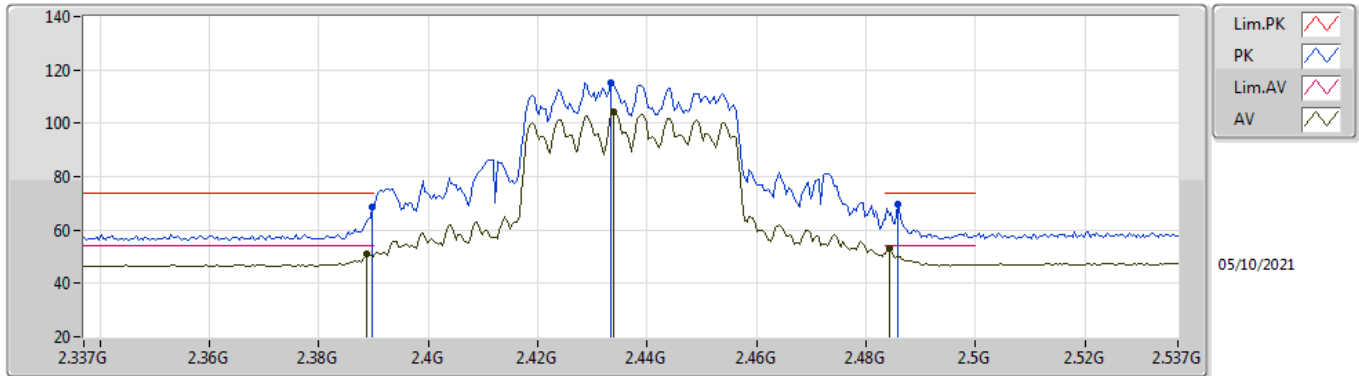


EUT Y\_4TX  
Setting 15.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8424G	43.62	74.00	-30.38	38.27	3	Horizontal	274	1.77	-	32.87	4.70	32.22
AV	4.8465G	31.43	54.00	-22.57	26.06	3	Horizontal	274	1.77	-	32.89	4.70	32.22
PK	7.26924G	47.77	74.00	-26.23	38.57	3	Horizontal	283	1.30	-	36.22	5.73	32.75
AV	7.26734G	35.36	54.00	-18.64	26.18	3	Horizontal	283	1.30	-	36.20	5.73	32.75

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2437MHz\_TX

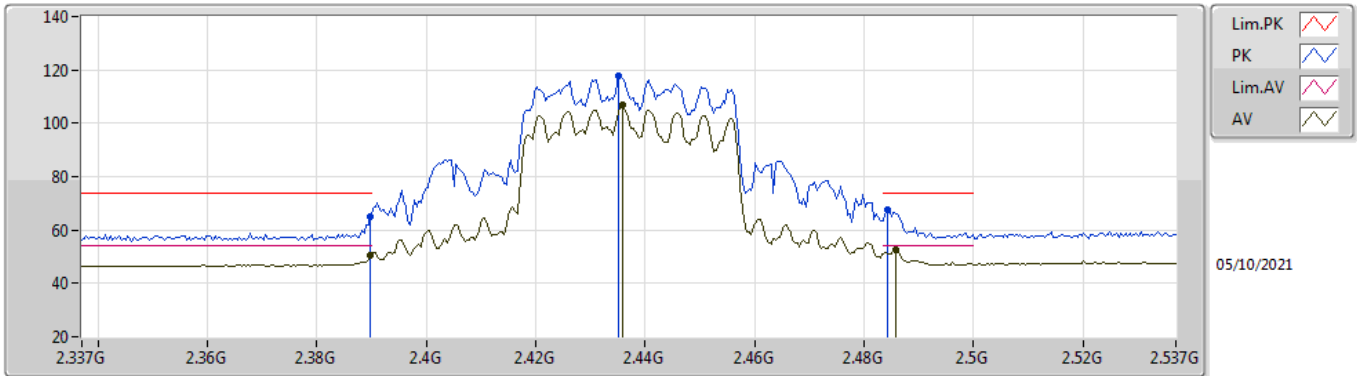


EUT Y\_4TX  
Setting 16.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	68.66	74.00	-5.34	37.87	3	Vertical	87	1.96	-	28.38	2.41	-
AV	2.3886G	51.29	54.00	-2.71	20.50	3	Vertical	87	1.96	-	28.38	2.41	-
PK	2.4334G	115.17	Inf	-Inf	84.35	3	Vertical	87	1.96	-	28.40	2.42	-
AV	2.4338G	104.25	Inf	-Inf	73.43	3	Vertical	87	1.96	-	28.40	2.42	-
PK	2.4858G	69.43	74.00	-4.57	38.45	3	Vertical	87	1.96	-	28.54	2.44	-
AV	2.4842G	52.91	54.00	-1.09	21.93	3	Vertical	87	1.96	-	28.54	2.44	-

802.11ax HEW40\_Nss1,(MCS0)\_4TX

2437MHz\_TX

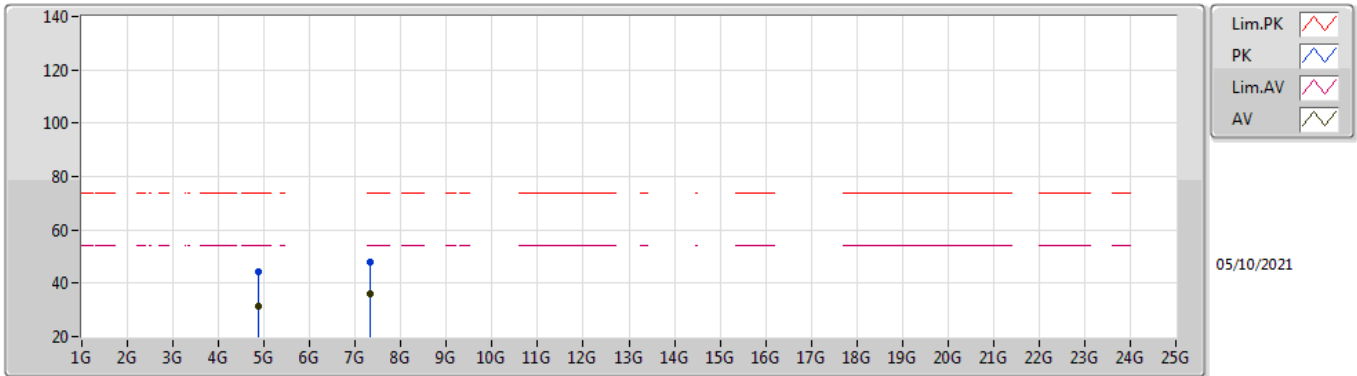


EUT Y\_4TX  
Setting 16.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	64.98	74.00	-9.02	34.19	3	Horizontal	86	2.59	-	28.38	2.41	-
AV	2.3898G	50.75	54.00	-3.25	19.96	3	Horizontal	86	2.59	-	28.38	2.41	-
PK	2.435G	117.87	Inf	-Inf	87.05	3	Horizontal	86	2.59	-	28.40	2.42	-
AV	2.4358G	106.81	Inf	-Inf	75.99	3	Horizontal	86	2.59	-	28.40	2.42	-
PK	2.4842G	67.64	74.00	-6.36	36.66	3	Horizontal	86	2.59	-	28.54	2.44	-
AV	2.4858G	52.60	54.00	-1.40	21.62	3	Horizontal	86	2.59	-	28.54	2.44	-

802.11ax HEW40\_Nss1,(MCS0)\_4TX

2437MHz\_TX

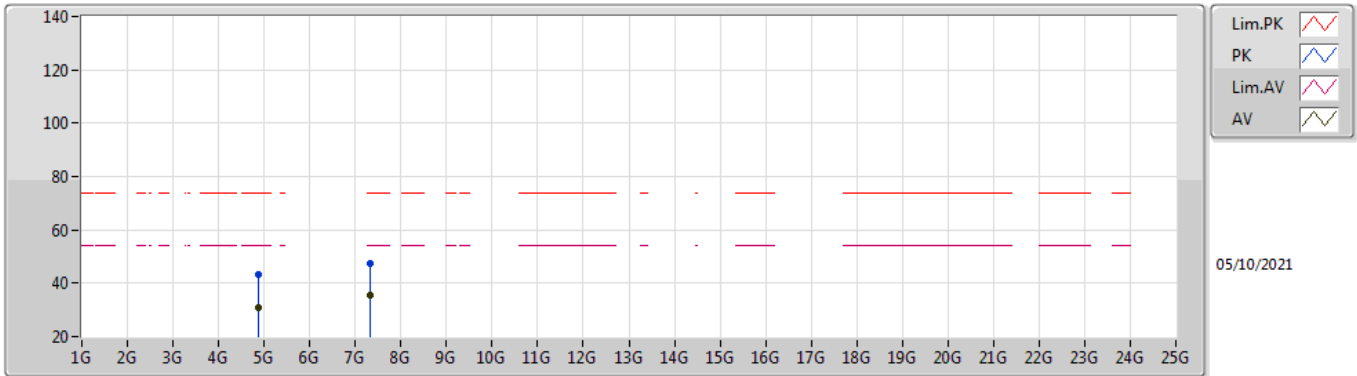


EUT Y\_4TX  
Setting 16.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87652G	44.21	74.00	-29.79	38.76	3	Vertical	62	2.20	-	32.95	4.70	32.20
AV	4.86998G	31.34	54.00	-22.66	25.91	3	Vertical	62	2.20	-	32.94	4.70	32.21
PK	7.31238G	48.12	74.00	-25.88	38.76	3	Vertical	252	2.76	-	36.42	5.76	32.82
AV	7.31392G	35.80	54.00	-18.20	26.44	3	Vertical	252	2.76	-	36.43	5.76	32.83

802.11ax HEW40\_Nss1,(MCS0)\_4TX

2437MHz\_TX

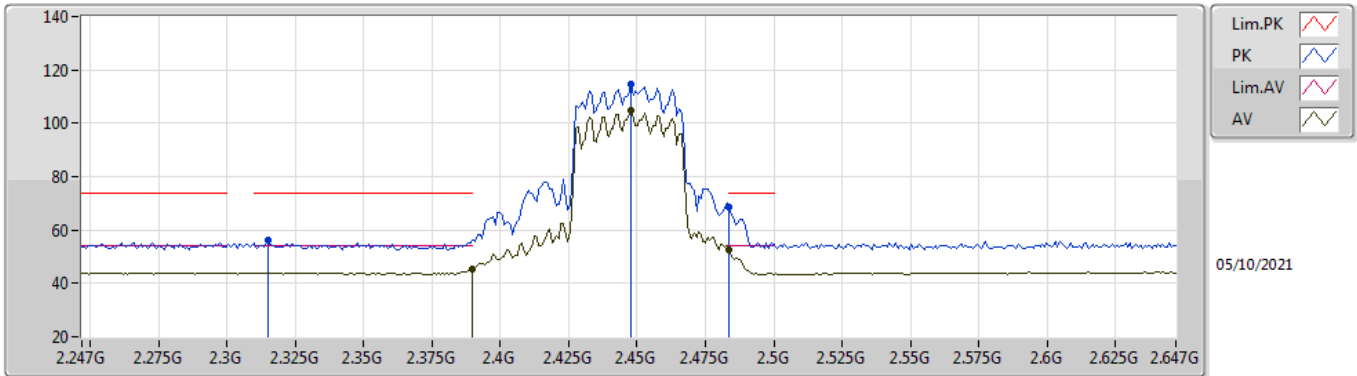


EUT Y\_4TX  
Setting 16.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87488G	43.40	74.00	-30.60	37.96	3	Horizontal	232	2.54	-	32.95	4.70	32.21
AV	4.87142G	31.06	54.00	-22.94	25.63	3	Horizontal	232	2.54	-	32.94	4.70	32.21
PK	7.31568G	47.57	74.00	-26.43	38.21	3	Horizontal	151	2.87	-	36.43	5.76	32.83
AV	7.31422G	35.74	54.00	-18.26	26.38	3	Horizontal	151	2.87	-	36.43	5.76	32.83

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2447MHz\_TX

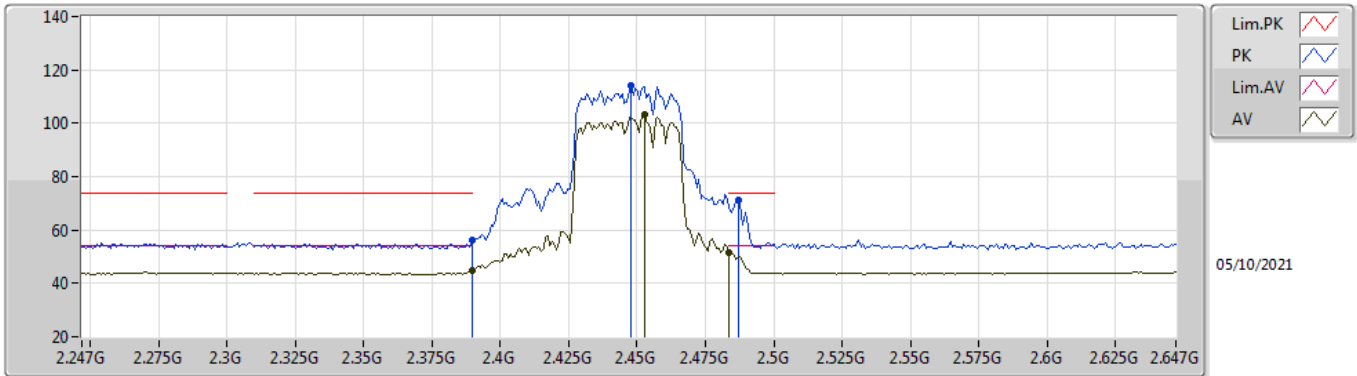


EUT Y\_4TX  
Setting 15.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.315G	56.32	74.00	-17.68	25.72	3	Vertical	73	1.87	-	28.16	2.44	-
AV	2.39G	45.56	54.00	-8.44	14.77	3	Vertical	73	1.87	-	28.38	2.41	-
PK	2.4478G	114.63	Inf	-Inf	83.81	3	Vertical	73	1.87	-	28.40	2.42	-
AV	2.4478G	104.91	Inf	-Inf	74.09	3	Vertical	73	1.87	-	28.40	2.42	-
PK	2.4838G	68.76	74.00	-5.24	37.78	3	Vertical	73	1.87	-	28.54	2.44	-
AV	2.4838G	52.60	54.00	-1.40	21.62	3	Vertical	73	1.87	-	28.54	2.44	-

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2447MHz\_TX



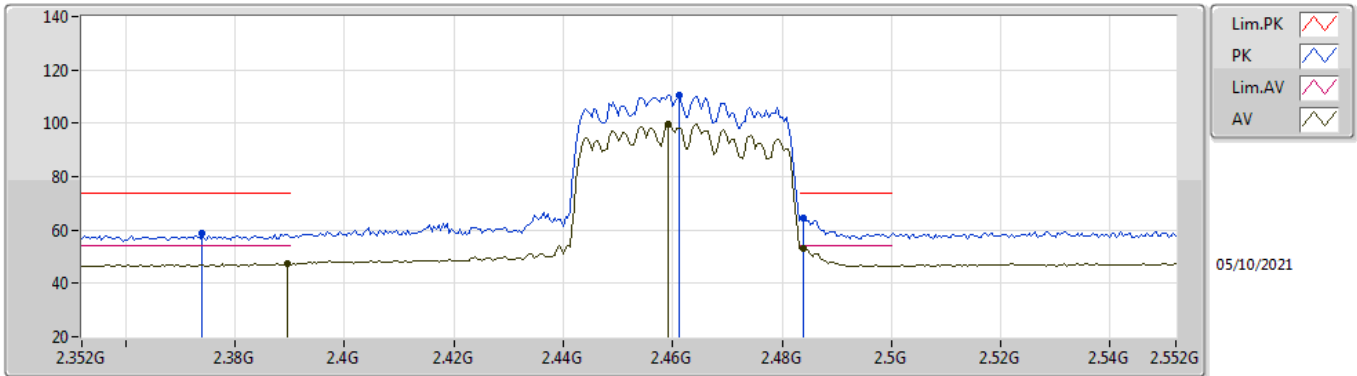
EUT Y\_4TX  
Setting 15.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	56.00	74.00	-18.00	25.21	3	Horizontal	79	2.14	-	28.38	2.41	-
AV	2.39G	44.74	54.00	-9.26	13.95	3	Horizontal	79	2.14	-	28.38	2.41	-
PK	2.4478G	114.16	Inf	-Inf	83.34	3	Horizontal	79	2.14	-	28.40	2.42	-
AV	2.4526G	103.05	Inf	-Inf	72.21	3	Horizontal	79	2.14	-	28.41	2.43	-
PK	2.487G	71.30	74.00	-2.70	40.31	3	Horizontal	79	2.14	-	28.55	2.44	-
AV	2.4838G	51.36	54.00	-2.64	20.38	3	Horizontal	79	2.14	-	28.54	2.44	-



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2452MHz\_TX

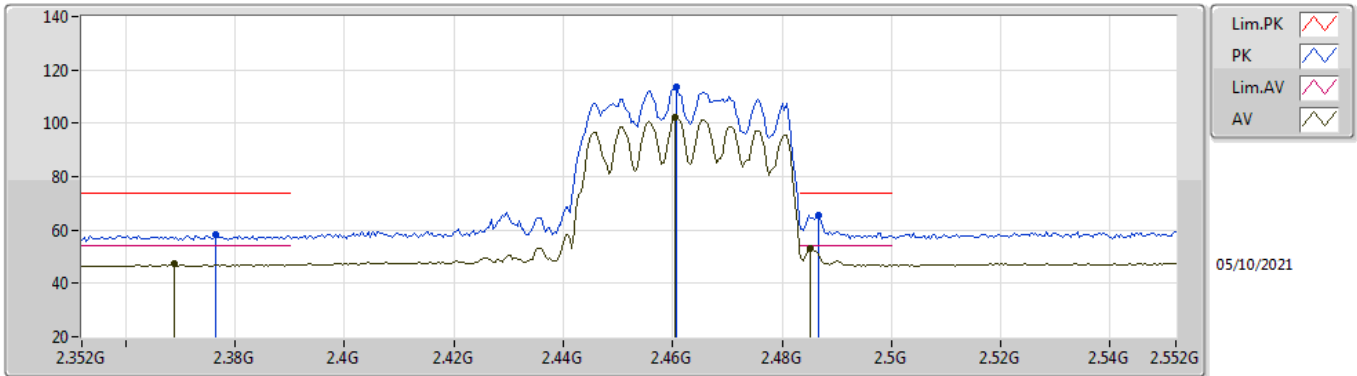


EUT Y\_4TX  
Setting 12.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.374G	58.63	74.00	-15.37	27.87	3	Vertical	75	1.80	-	28.35	2.41	-
AV	2.3896G	47.25	54.00	-6.75	16.46	3	Vertical	75	1.80	-	28.38	2.41	-
PK	2.4612G	110.54	Inf	-Inf	79.67	3	Vertical	75	1.80	-	28.44	2.43	-
AV	2.4592G	99.87	Inf	-Inf	69.00	3	Vertical	75	1.80	-	28.44	2.43	-
PK	2.484G	64.52	74.00	-9.48	33.54	3	Vertical	75	1.80	-	28.54	2.44	-
AV	2.484G	52.93	54.00	-1.07	21.95	3	Vertical	75	1.80	-	28.54	2.44	-

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2452MHz\_TX

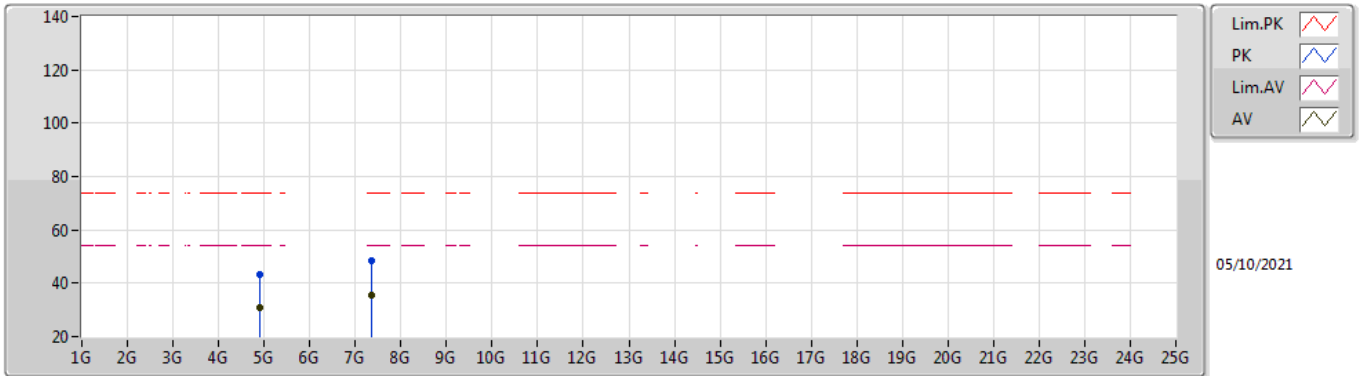


EUT Y\_4TX  
Setting 12.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3764G	58.05	74.00	-15.95	27.29	3	Horizontal	107	2.78	-	28.35	2.41	-
AV	2.3688G	47.33	54.00	-6.67	16.57	3	Horizontal	107	2.78	-	28.34	2.42	-
PK	2.4608G	113.41	Inf	-Inf	82.54	3	Horizontal	107	2.78	-	28.44	2.43	-
AV	2.4604G	102.38	Inf	-Inf	71.51	3	Horizontal	107	2.78	-	28.44	2.43	-
PK	2.4868G	65.63	74.00	-8.37	34.64	3	Horizontal	107	2.78	-	28.55	2.44	-
AV	2.4852G	52.94	54.00	-1.06	21.96	3	Horizontal	107	2.78	-	28.54	2.44	-

802.11ax HEW40\_Nss1,(MCS0)\_4TX

2452MHz\_TX

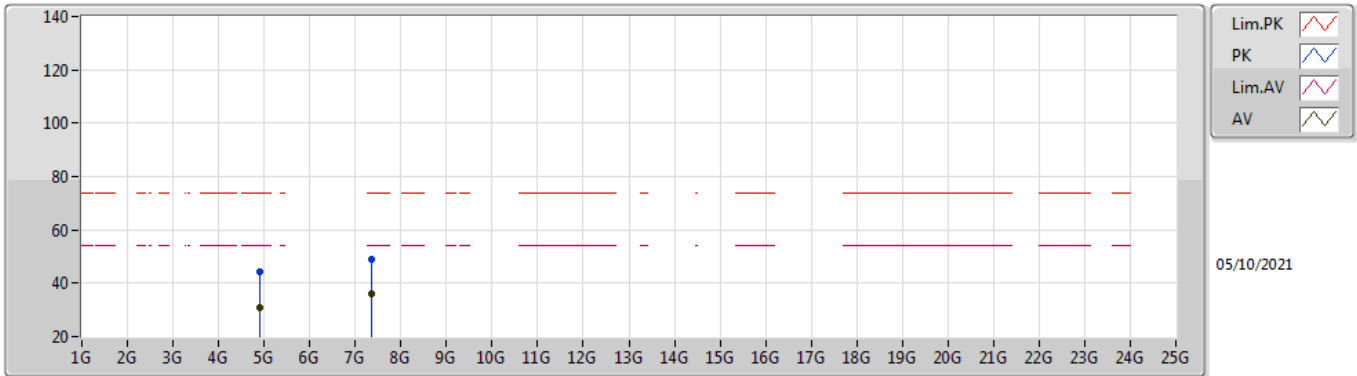


EUT Y\_4TX  
Setting 12.5  
02-B-S-8

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90384G	43.15	74.00	-30.85	37.62	3	Vertical	324	1.98	-	33.02	4.70	32.19
AV	4.90676G	30.92	54.00	-23.08	25.37	3	Vertical	324	1.98	-	33.04	4.70	32.19
PK	7.35788G	48.36	74.00	-25.64	38.96	3	Vertical	42	1.62	-	36.52	5.78	32.90
AV	7.35316G	35.73	54.00	-18.27	26.33	3	Vertical	42	1.62	-	36.51	5.78	32.89

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

### 2452MHz\_TX



EUT Y\_4TX  
Setting 12.5  
02-B-S-8

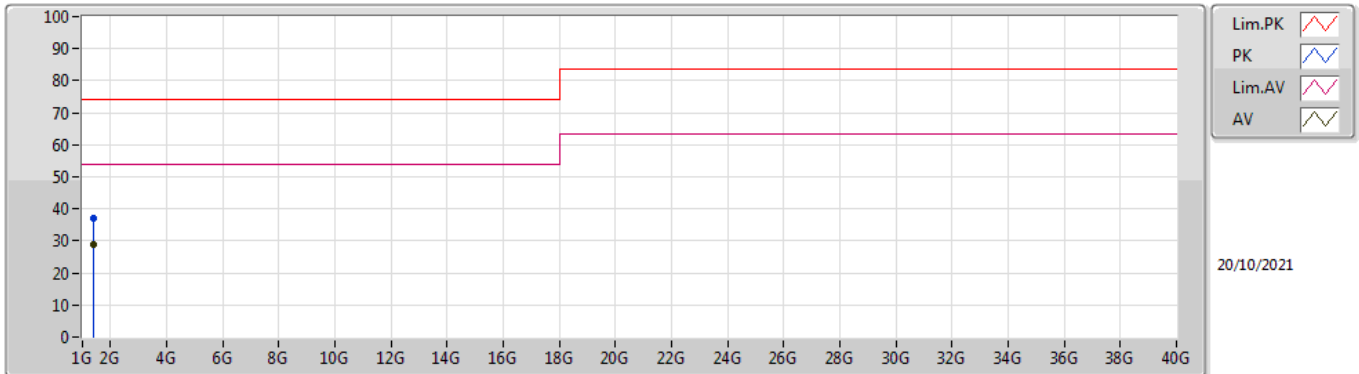
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9069G	44.16	74.00	-29.84	38.61	3	Horizontal	268	2.07	-	33.04	4.70	32.19
AV	4.90448G	30.96	54.00	-23.04	25.42	3	Horizontal	268	2.07	-	33.03	4.70	32.19
PK	7.35916G	49.07	74.00	-24.93	39.67	3	Horizontal	343	1.99	-	36.52	5.78	32.90
AV	7.35222G	35.91	54.00	-18.09	26.52	3	Horizontal	343	1.99	-	36.50	5.78	32.89



**Summary**

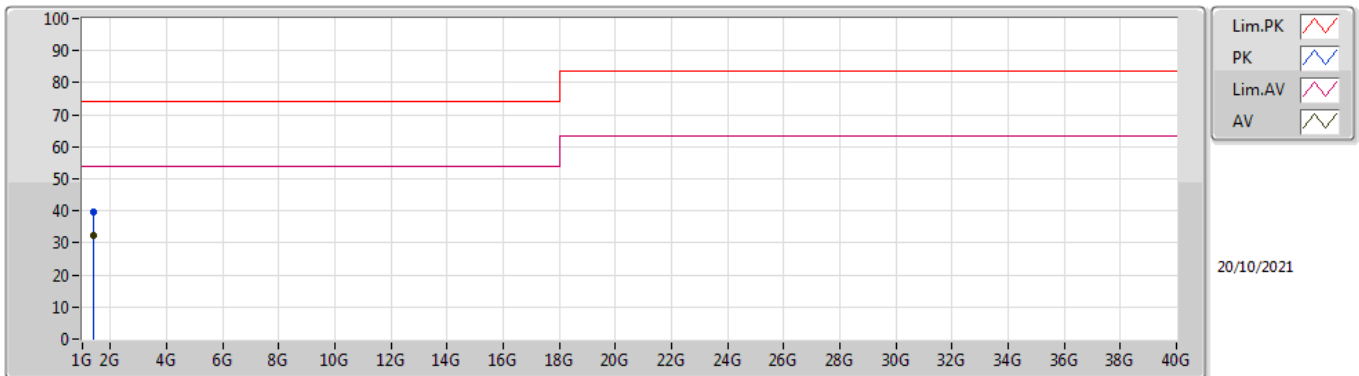
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.40603G	32.17	54.00	-21.83	Horizontal

### Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.40629G	37.01	74.00	-36.99	-7.95	3	Vertical	176	1.13	-	44.96	25.83	3.61	37.39
AV	1.40605G	28.96	54.00	-25.04	-7.96	3	Vertical	176	1.13	"Worst"	36.92	25.82	3.61	37.39

### Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	1.4062G	39.48	74.00	-34.52	-7.96	3	Horizontal	113	1.59	-	47.44	25.82	3.61	37.39
AV	1.40603G	32.17	54.00	-21.83	-7.96	3	Horizontal	113	1.59	"Worst"	40.13	25.82	3.61	37.39