

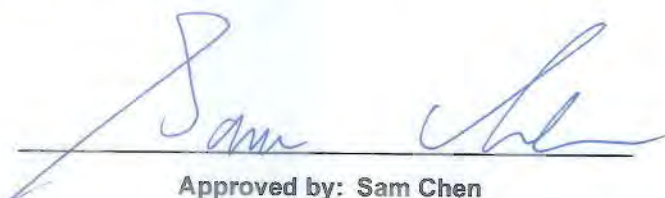


# RADIO TEST REPORT

**FCC ID** : 2AYRA-08330  
**Equipment** : Velop AX3000 WiFi 6 System  
**Brand Name** : LINKSYS  
**Model Name** : MX2000, MX20EC, MX20MS, MX20WH  
**Applicant** : Linksys USA, Inc.  
12045 East Waterfront Drive  
Playa Vista, CA 90094, United States.  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Jul. 13, 2021, and testing was started from Jul. 13, 2021 and completed on Sep. 09, 2021. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

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



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### History of this test report

Report No.	Version	Description	Issued Date
FR171418AA	01	Initial issue of report	Oct. 07, 2021
FR171418AA	02	Modifying typing error for Radiated Co-location test date.	Oct. 08, 2021
FR171418AA	03	Add the information of verifying the worst mode.	Nov. 01, 2021
FR171418AA	04	Revising antenna information.	Nov. 03, 2021
FR171418AA	05	Add the directional gain information to antenna information.	Nov. 19, 2021
FR171418AA	06	Add the directional gain information to antenna information.	Nov. 23, 2021



### Summary of Test Result

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

**Declaration of Conformity:**

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

**Comments and Explanations:**

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

**Reviewed by: Sam Chen**

**Report Producer: Wendy Pan**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), 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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ 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)
	2.4GHz	5GHz	Bluetooth					
1	1	1	-	Galtronics	02102140-07575-1	PCB	I-PEX	Note1
2	2	2	-	Galtronics	02102140-07575-2	PCB	I-PEX	
3	-	-	1	Galtronics	02036073-07315	Metal	N/A	

Note1:

Ant.	Port			Antenna Gain (dBi)						
	2.4GHz	5GHz	Bluetooth	2.4GHz	5GHz UNII-1	5GHz UNII-2A	5GHz UNII-2C	5GHz UNII-3	5GHz UNII-4	Bluetooth
1	1	1	-	2.12	2.51	2.64	3.58	3.67	3.81	-
2	2	2	-	2.67	3.26	3.20	2.95	3.01	3.17	-
3	-	-	1	-	-	-	-	-	-	5.3

Note2: The above information was declared by manufacturer.

**For 2.4GHz function:**

**For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For 5GHz function:**

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

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

Port 1 and Port 2 could transmit/receive simultaneously.

**For Bluetooth Function:**

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

Only Port 1 can be use as transmit and receive antenna.

Note3: Directional gain information

	Maximum Output Power	Power Spectral Density
<b>Non-BF</b>	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
<b>BF</b>	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

Ex.

Directional gain(NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$N_{SS1}(g1,1) = 10^{G1/20} ; N_{SS1}(g1,2) = 10^{G2/20} ; g_{j,k} = (N_{SS1}(g1,1) + N_{SS1}(g1,2))^2$$

$$DG = 10 \log[(N_{SS1}(g1,1) + N_{SS1}(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

$$2.4GHz DG = 10 \log[(10^{2.12/20} + 10^{2.67/20})^2 / N_{ANT}] = 5.41 \text{ dBi}$$

$$5 \text{ GHz Band1 DG} = 10 \log[(10^{2.51/20} + 10^{3.26/20})^2 / N_{ANT}] = 5.9 \text{ dBi}$$

$$5 \text{ GHz Band2 DG} = 10 \log[(10^{2.64/20} + 10^{3.2/20})^2 / N_{ANT}] = 5.93 \text{ dBi}$$

$$5 \text{ GHz Band3 DG} = 10 \log[(10^{3.58/20} + 10^{2.95/20})^2 / N_{ANT}] = 6.28 \text{ dBi}$$

$$5 \text{ GHz Band4 DG} = 10 \log[(10^{3.67/20} + 10^{3.01/20})^2 / N_{ANT}] = 6.36 \text{ dBi}$$

$$5.9 \text{ GHz DG} = 10 \log[(10^{3.81/20} + 10^{3.17/20})^2 / N_{ANT}] = 6.51 \text{ dBi}$$



1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.931	0.31	8.629m	300
802.11g	0.932	0.31	1.434m	1k
802.11ax HEW20-BF	0.947	0.24	1.781m	1k
802.11ax HEW40-BF	0.92	0.36	1.781m	1k

Note:

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

1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From 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>	QSPR [ Version 5.0-00199] \ DOS [ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

Brand	Model Name	Description
LINKSYS	MX2000	All the models are identical, the difference model served as marketing strategy.
	MX20EC	
	MX20MS	
	MX20WH	

Note 1: From the above models, model: MX2000 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.





### 1.2 Applicable Standards

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

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

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

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

### 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Serway Lee	22.1~23.4 / 59~60	Jul. 21, 2021~ Sep. 07, 2021
Radiated<1GHz	03CH03-CB	Ken Yeh	25.2-27.3 / 55-58	Sep. 09, 2021
Radiated>1GHz	03CH02-CB	Eason Chen	25.8-28.2 / 56-59	Jul. 13, 2021 ~ Aug. 11, 2021
	03CH03-CB	Eason Chen	23.5-24.6 / 55-59	Jul. 13, 2021 ~ Aug. 11, 2021
Radiated Co-location	03CH05-CB	Eason Chen	24.4-25.5 / 56-59	Sep. 03, 2021
AC Conduction	CO01-CB	Ryo Fan	23~24 / 56~57	Sep. 06, 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

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	21
2437MHz	23
2462MHz	21.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	18.5
2417MHz	20
2437MHz	21.5
2457MHz	19
2462MHz	17
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	19
2417MHz	20
2437MHz	23
2457MHz	20
2462MHz	19
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	18
2437MHz	19
2452MHz	18

Note1: There are two modes of EUT for n/VHT/ax in 2.4GHz and n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode, after evaluating, beamforming mode has been evaluated to be the worst case, so it was selected to test and record in this test report.

Note2: 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.



## 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>	Normal Link
1	EUT + Adapter 1 + US plug
2	EUT + Adapter 2
3	EUT + Adapter 3
4	EUT + Adapter 4 + US plug

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



<b>The Worst Case Mode for Following Conformance Tests</b>	
<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>	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	CTX
1	EUT in Z axis CTX WLAN 2.4GHz + Adapter 1 + US plug
2	EUT in Z axis CTX WLAN 2.4GHz + Adapter 2
3	EUT in Z axis CTX WLAN 2.4GHz + Adapter 3
4	EUT in Z axis CTX WLAN 2.4GHz + Adapter 4 + US plug
Mode 2 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 ~ 6 will follow this same test mode.	
5	EUT in Z axis CTX Bluetooth + Adapter 2
6	EUT in Z axis CTX WLAN 5GHz + Adapter 2
For operating mode 2 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	The EUT was performed at X axis, Y axis and Z axis position, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	EUT in Z axis CTX

<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>	The EUT was performed at X axis, Y axis and Z axis position for Emissions in Restricted Frequency Bands above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.
	Normal Link
1	EUT in Z 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
Refer to Sporton Test Report No.: FA171418 for Co-location RF Exposure Evaluation.	



### 2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS [ver 6.1.7601].
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Wireless AP and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

### 2.4 Accessories

Accessories			
Equipment Name	Brand Name	Model Name	Rating
Adapter 1 (Removable plug)	Ktec	KSA-18W-120150D5	INPUT: 100-240V~50/60Hz, 0.5A OUTPUT: 12.0V, 1.5A, 18.0W
Adapter 2 (Fixed plug)	Ktec	KSA-18W-120150VU	INPUT: 100-240V~50/60Hz, 0.5A OUTPUT: 12V, 1.5A
Adapter 3 (Fixed plug)	APD	WB-18Q12FU	INPUT: 100-240V~, 50-60Hz, 0.6A Max. OUTPUT: 12V, 1.5A
Adapter 4 (Removable plug)	APD	WB-18Q12R	INPUT: 100-240V~, 50-60Hz, 0.6A, Max. OUTPUT: 12.0V, 1.5A, 18.0W
Others			
US plug*2 (for adapter 1 and adapter 4 use) RJ-45 cable*1: Non-shielded, 0.9m			



## 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	WAN NB	DELL	E6430	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	iPad	Apple	A1430	N/A

For Radiated (below 1GHz):

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

For Radiated (above 1GHz) and RF Conducted:

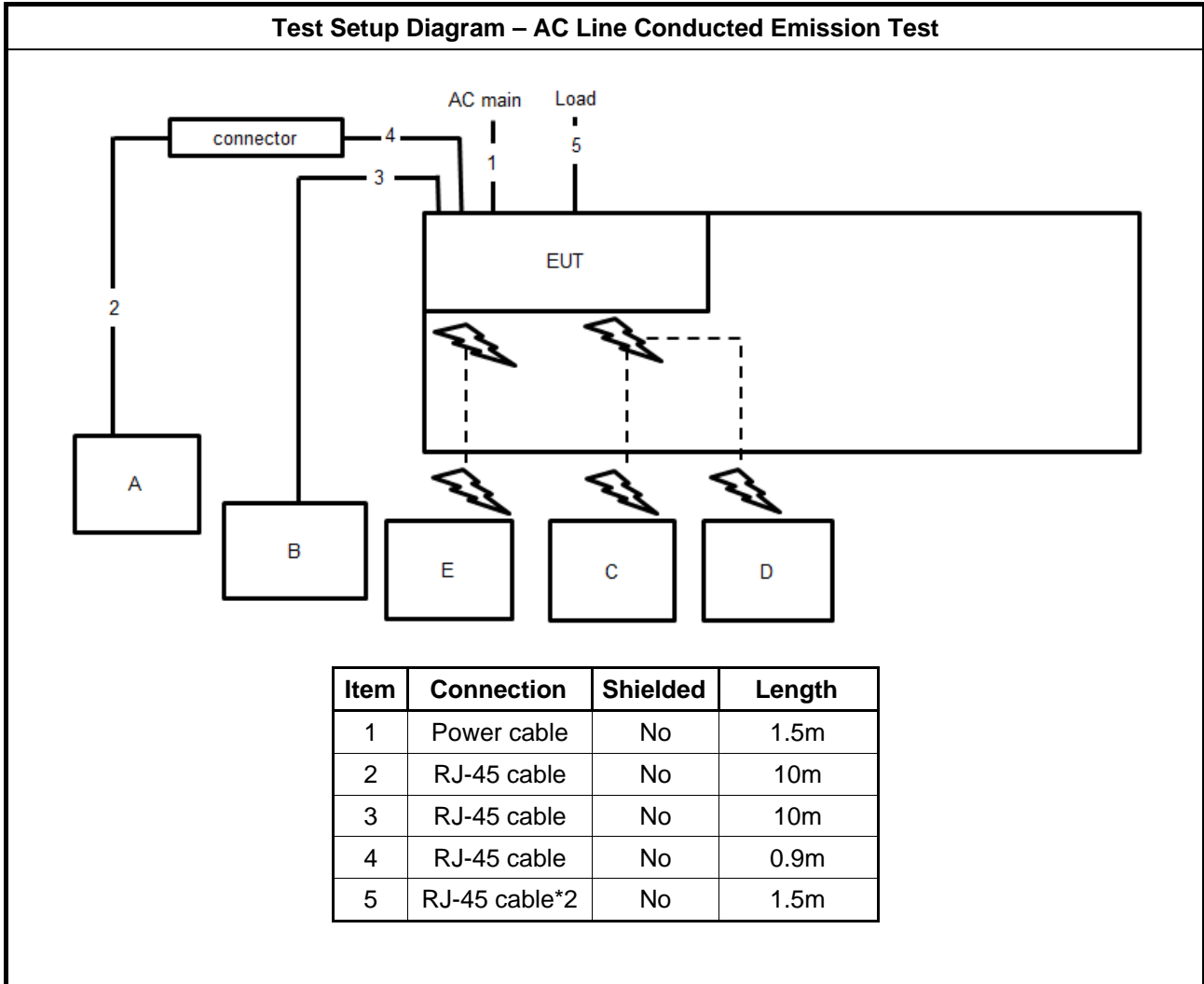
For Non-beamforming mode:

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

For Beamforming mode:

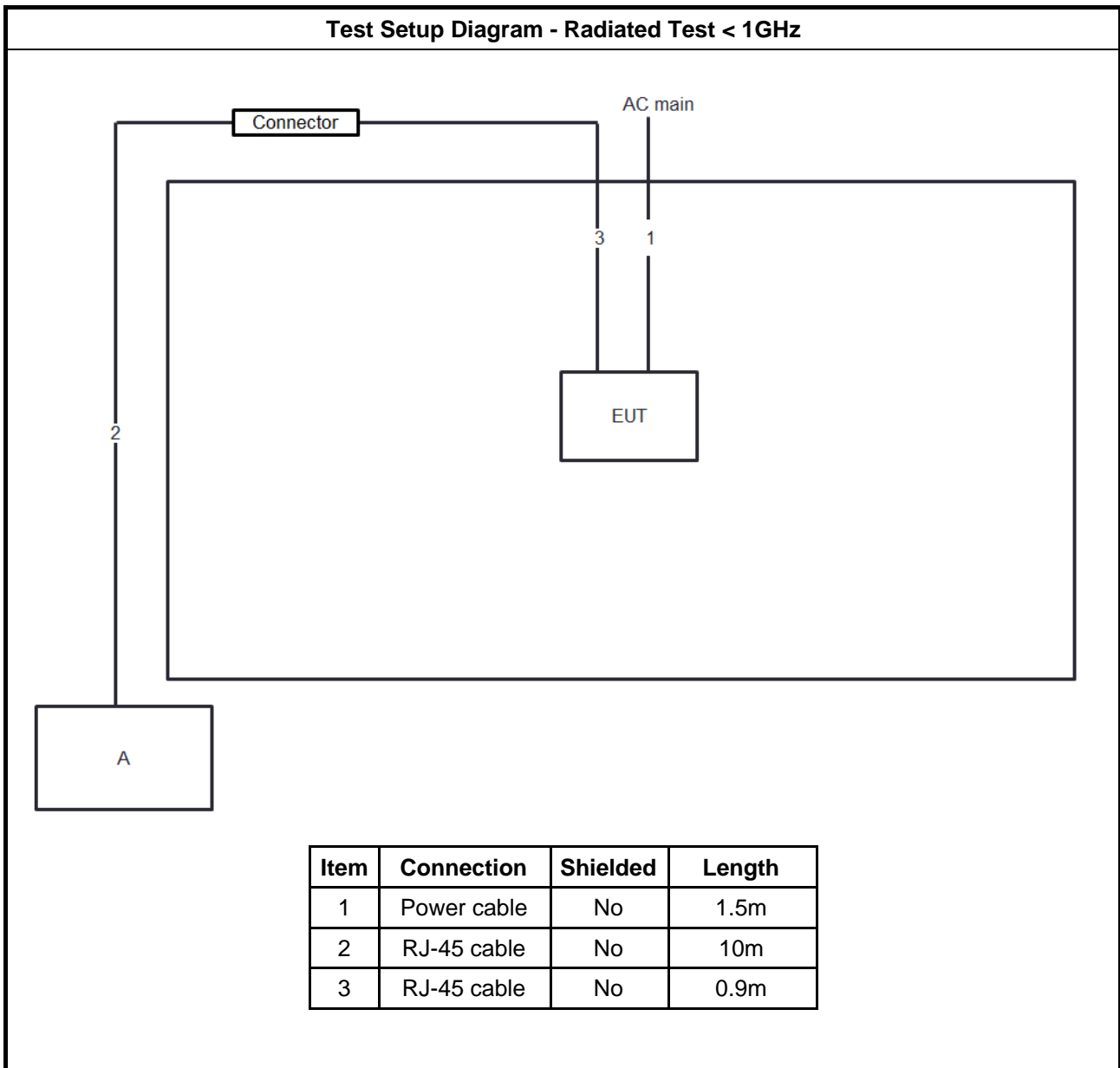
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	RX Device	LINKSYS	MX2000	2AYRA-08330

## 2.6 Test Setup Diagram

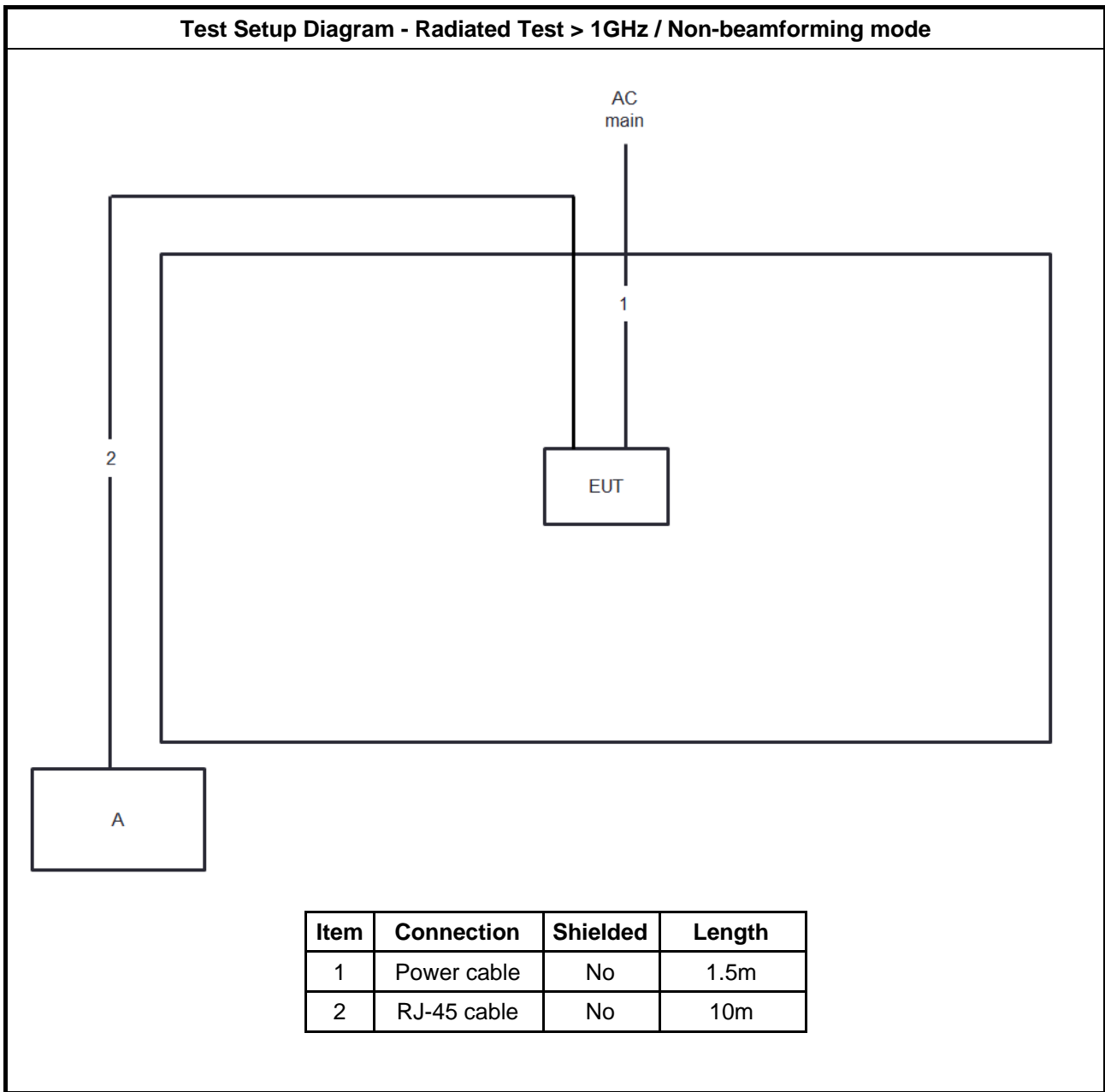




**Test Setup Diagram - Radiated Test < 1GHz**

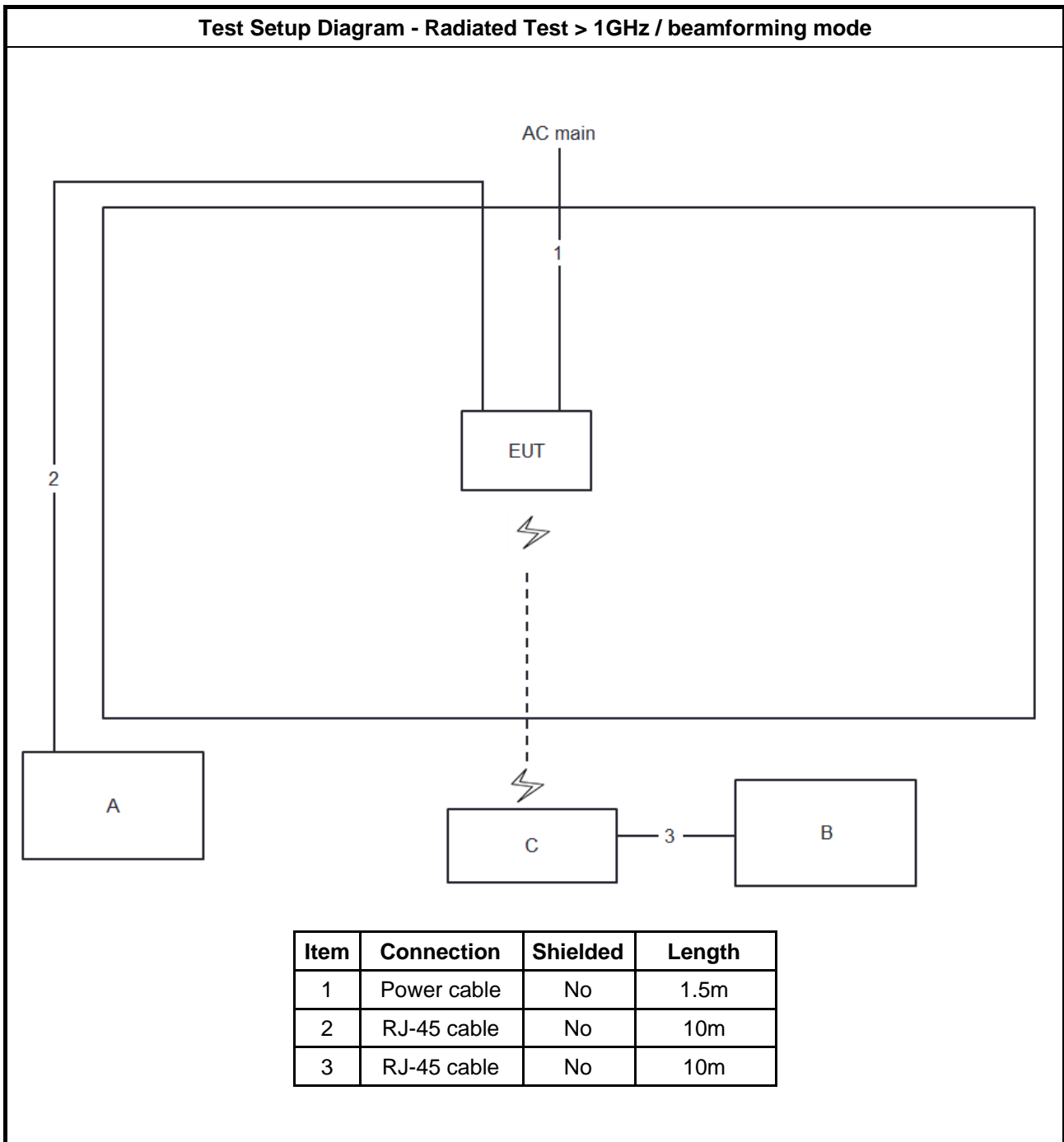


**Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode**



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

**Test Setup Diagram - Radiated Test > 1GHz / beamforming mode**





### 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.

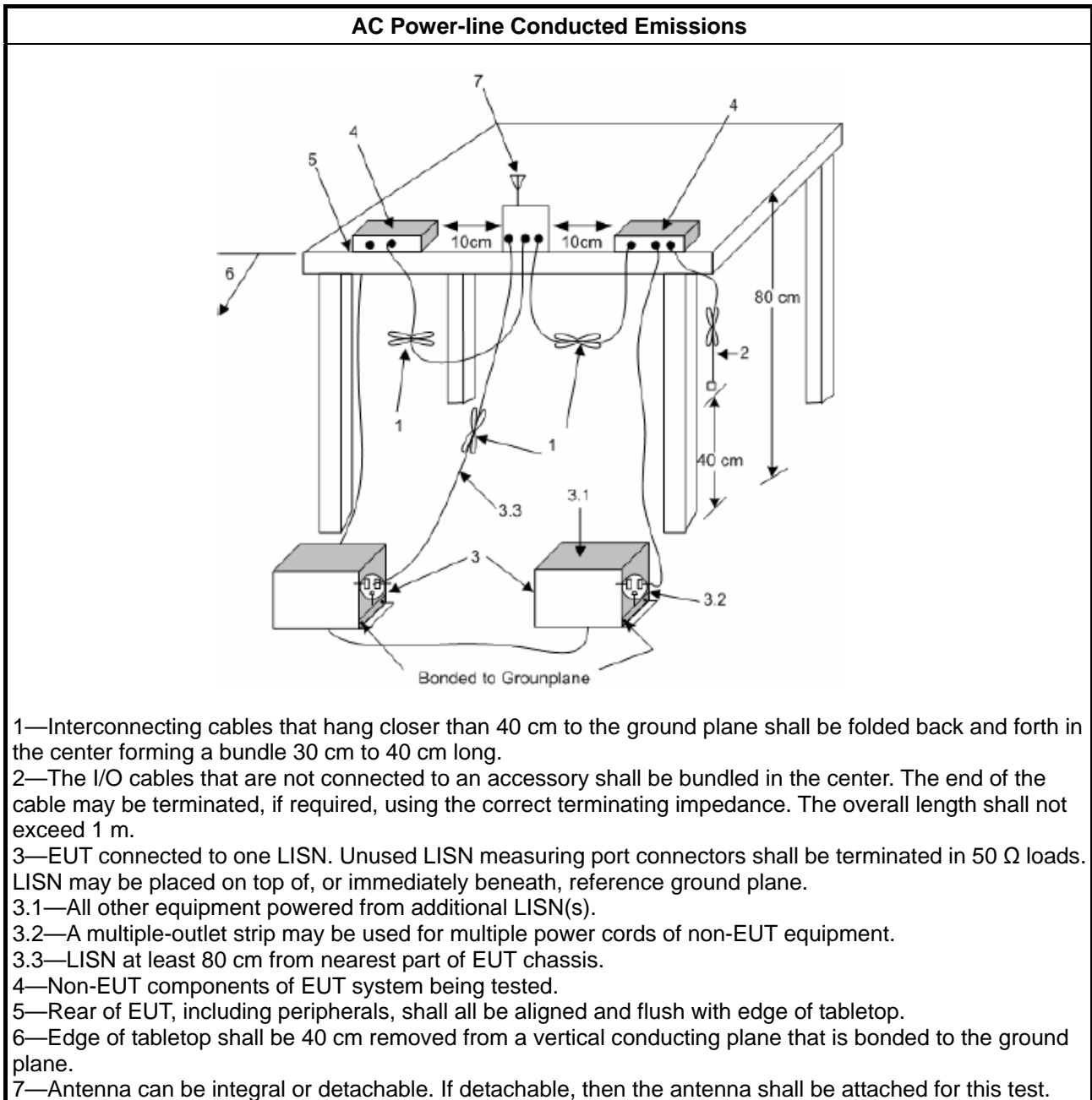
##### 3.1.2 Measuring Instruments

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>

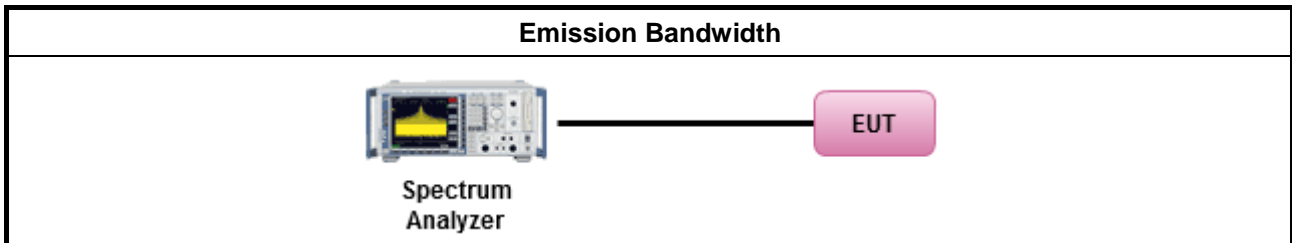
#### 3.2.2 Measuring Instruments

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>
$P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

#### 3.3.2 Measuring Instruments

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

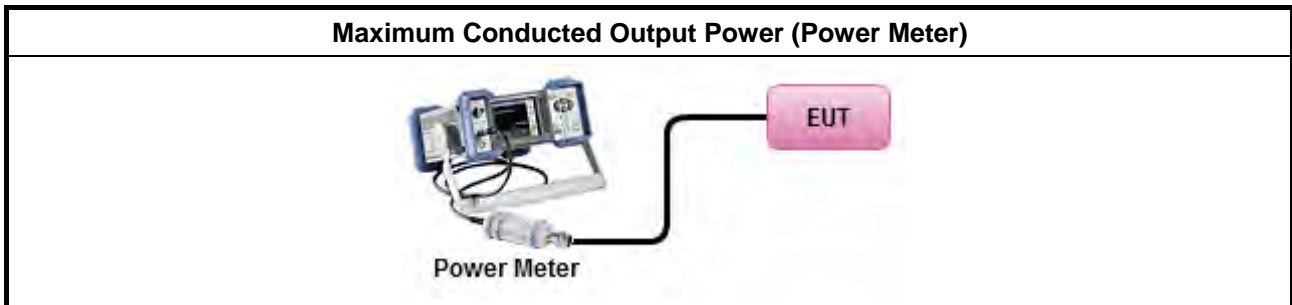


**3.3.3 Test Procedures**

<b>Test Method</b>	
<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>

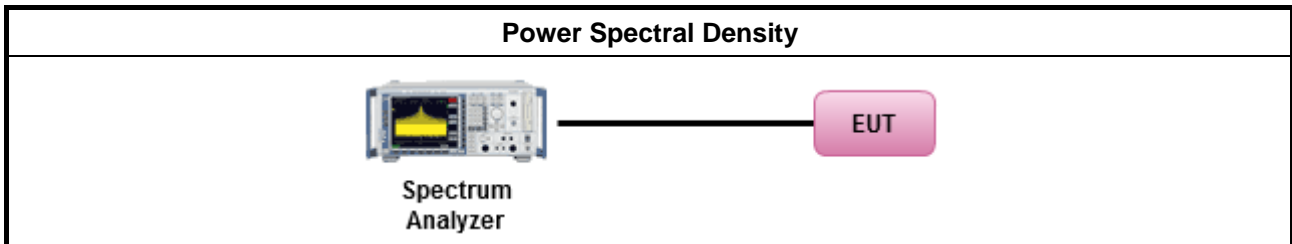
#### 3.4.2 Measuring Instruments

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.

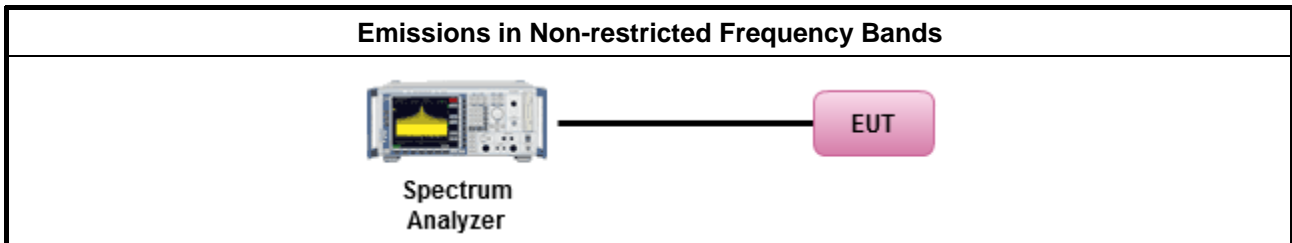
#### 3.5.2 Measuring Instruments

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

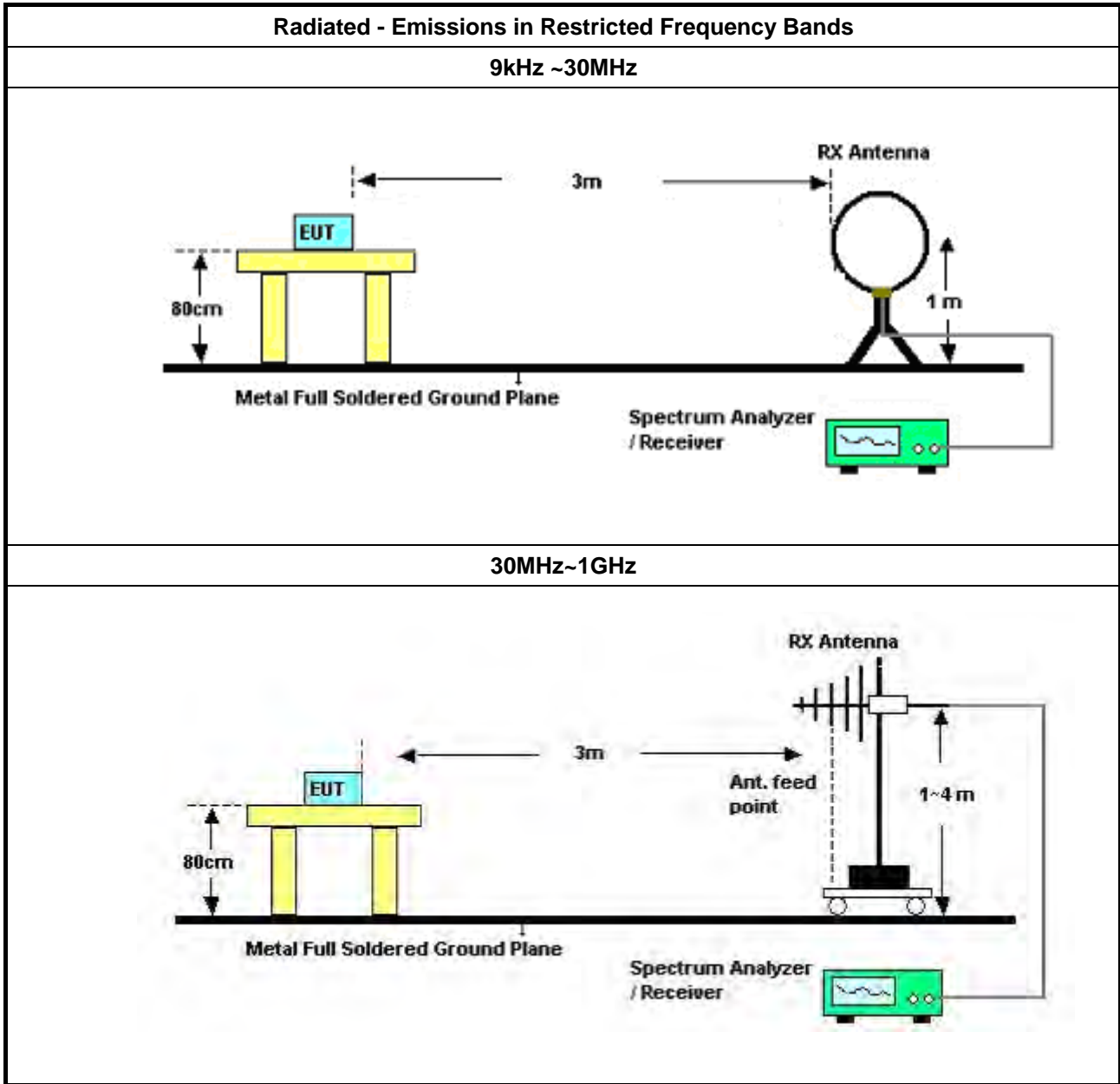
Refer a test equipment and calibration data table in this test report.

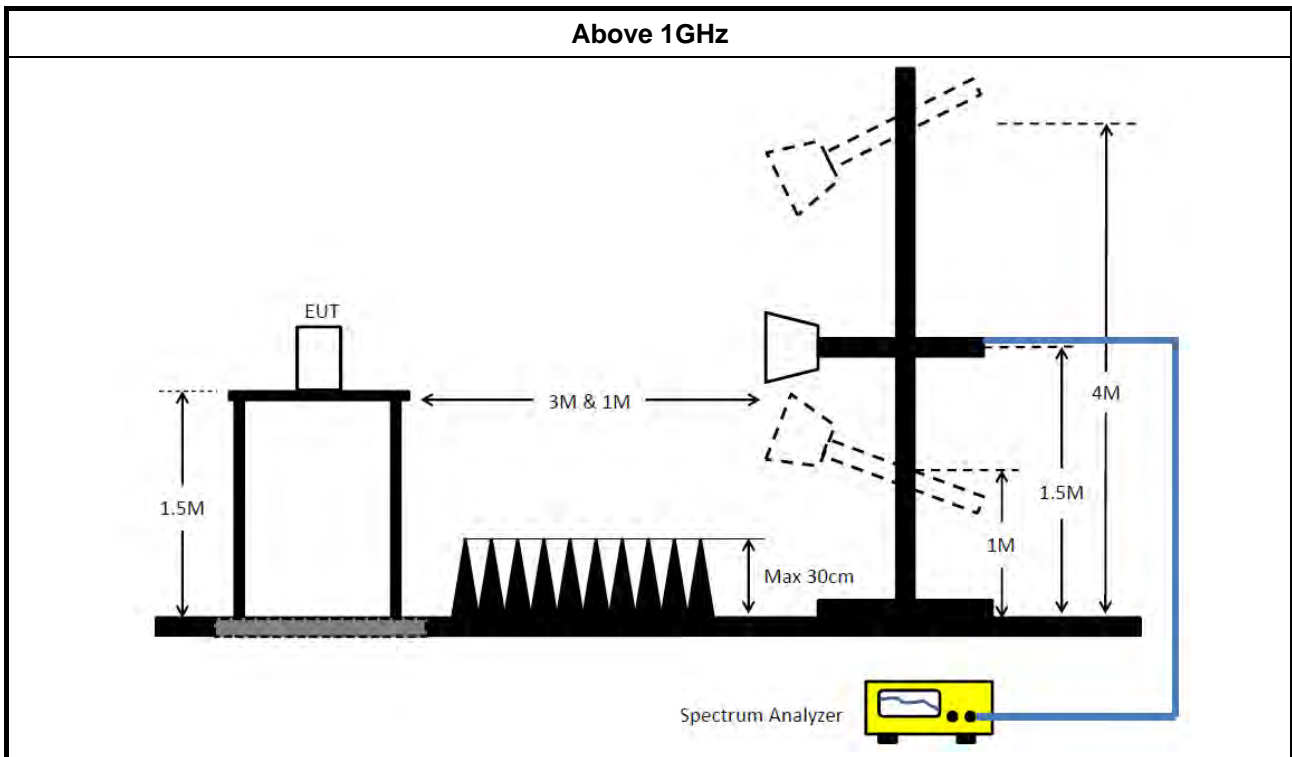


3.6.3 Test Procedures

Test Method	
<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:           <ul style="list-style-type: none"> <li>Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.               <ul style="list-style-type: none"> <li><input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 &amp; C63.10 clause 11.12.2.5.1(trace averaging for duty cycle <math>\geq</math>98%).</li> <li><input type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 &amp; C63.10 clause 11.12.2.5.2(trace averaging + duty factor).</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 &amp; C63.10 clause 11.12.2.5.3(Reduced VBW<math>\geq</math>1/T).</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW <math>\geq</math> 1/T, where T is pulse time.</li> <li><input type="checkbox"/> Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.</li> <li><input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.6 &amp; C63.10 clause 11.12.2.4 measurement procedure peak limit.</li> </ul> </li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:           <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> <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> <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> </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:           <ol style="list-style-type: none"> <li>Measure and sum the spectra across the outputs or</li> <li>Measure and add 10 log(N) dB</li> </ol> </li> <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)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Apr. 14, 2021	Apr. 13, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 27, 2021	Jan. 26, 2022	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 06, 2021	May 05, 2022	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMC I	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 22, 2021	Feb. 21, 2022	Radiation (03CH03-CB)
Horn Antenna	ETS · Lindgren	3115	6821	750MHz~18GHz	Jan. 26, 2021	Jan. 25, 2022	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 11, 2021	Jan. 10, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH03-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 04, 2021	Jun. 03, 2022	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 21, 2021	Jun. 20, 2022	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Aug. 20, 2021	Aug. 19, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH03-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-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	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 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-HG	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)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 16, 2020	Jul. 15, 2021	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-40G#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. 16, 2020	Jul. 15, 2021	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)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 08, 2020	Nov. 07, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Sep. 05, 2020	Sep. 04, 2021	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 18, 2021	Jun. 17, 2022	Radiation (03CH05-CB)



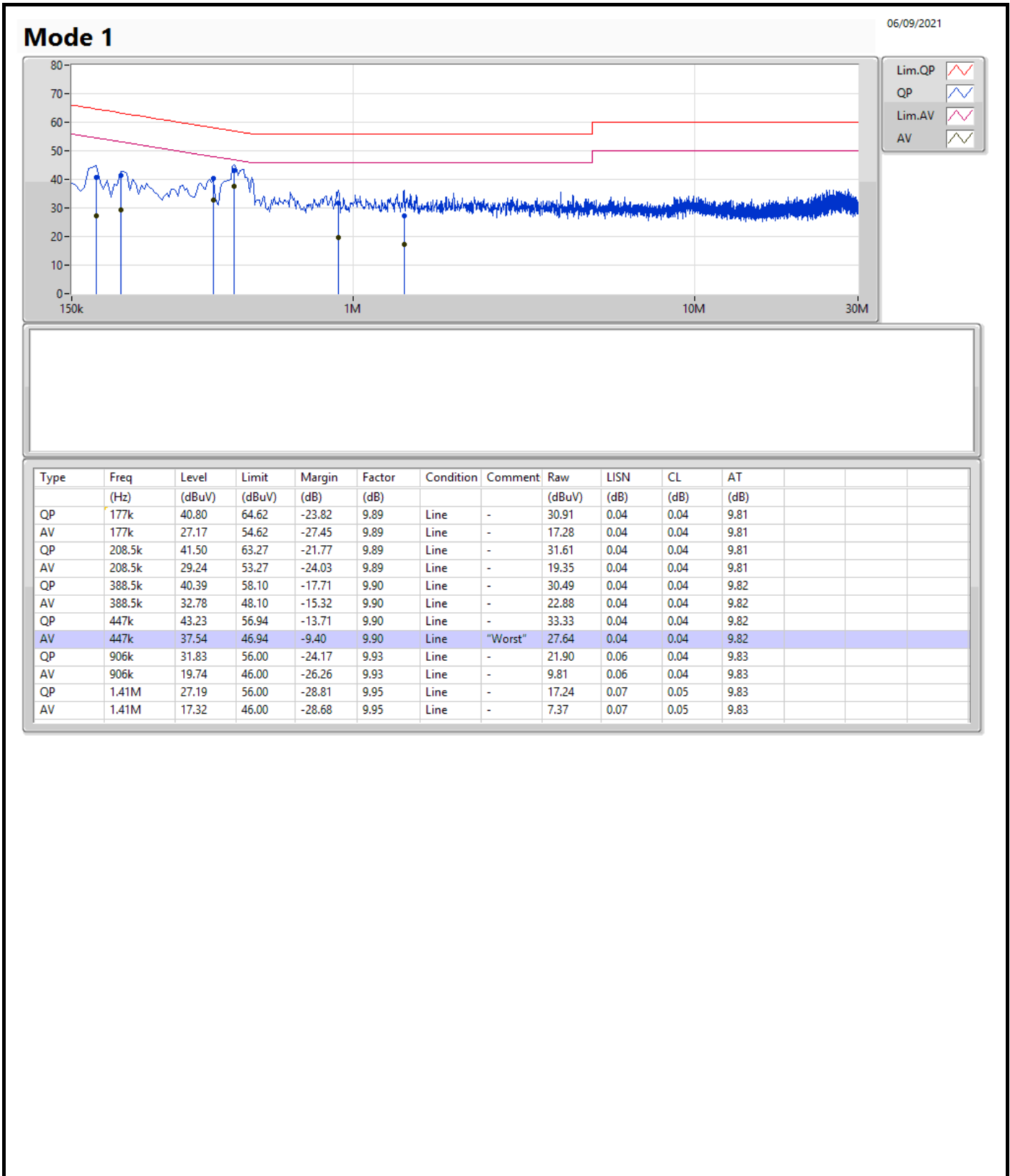
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 02, 2021	Jul. 01, 2022	Radiation (03CH05-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Nov. 10, 2020	Nov. 09, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 05, 2020	Oct. 04, 2021	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 15, 2021	Jul. 14, 2022	Radiation (03CH05-CB)
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)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 31, 2020	Dec. 30, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 27, 2021	Jul. 26, 2022	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Aug. 17, 2020	Aug. 16, 2021	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 27, 2021	Jul. 26, 2022	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 05, 2020	Oct. 04, 2021	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

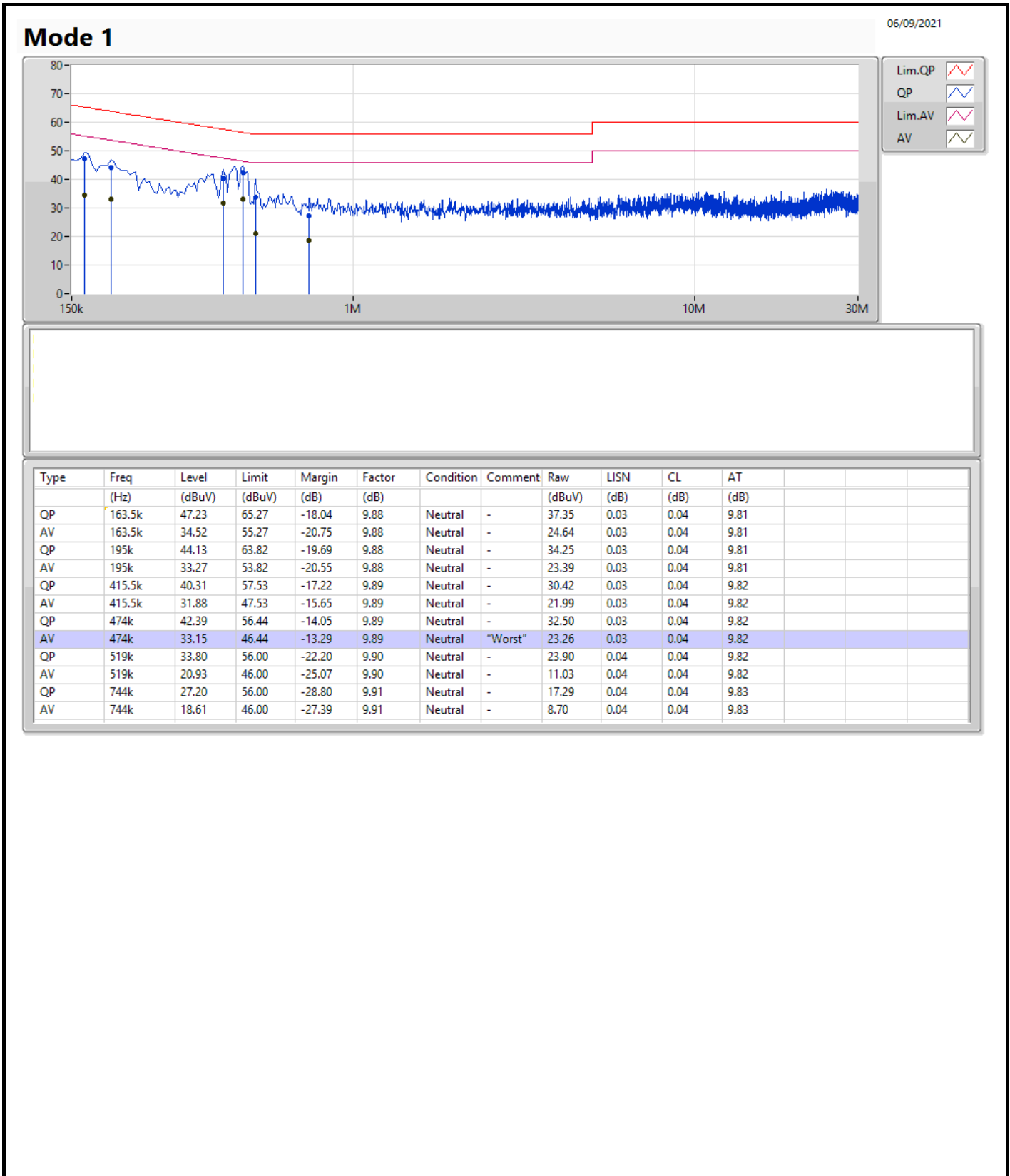
Note: Calibration Interval of instruments listed above is one year.  
NCR means Non-Calibration required.



**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	447k	37.54	46.94	-9.40	Line





**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9M	13.718M	13M7G1D	7.575M	13.043M
802.11g_Nss1,(6Mbps)_2TX	15.075M	16.617M	16M6D1D	14.975M	16.317M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	16.875M	18.941M	18M9D1D	14.975M	18.816M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	32.55M	37.781M	37M8D1D	19.4M	37.481M

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

**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.05M	13.043M	7.6M	13.043M
2437MHz	Pass	500k	9M	13.718M	9M	13.143M
2462MHz	Pass	500k	7.6M	13.068M	7.575M	13.068M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	14.975M	16.317M	14.975M	16.317M
2437MHz	Pass	500k	15.05M	16.617M	15.025M	16.492M
2462MHz	Pass	500k	15.025M	16.317M	15.075M	16.317M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.875M	18.816M	15M	18.816M
2437MHz	Pass	500k	15.05M	18.866M	15.025M	18.941M
2462MHz	Pass	500k	14.975M	18.816M	15.225M	18.816M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	32.5M	37.631M	25M	37.531M
2437MHz	Pass	500k	22.8M	37.731M	19.4M	37.531M
2452MHz	Pass	500k	21.6M	37.781M	32.55M	37.481M

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

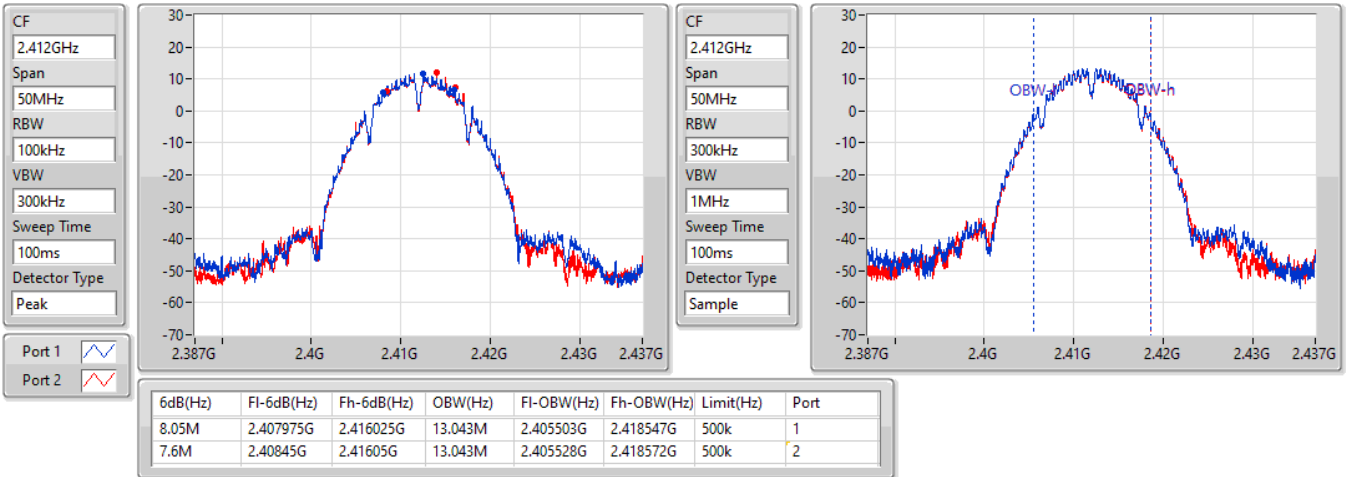


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2412MHz

21/07/2021

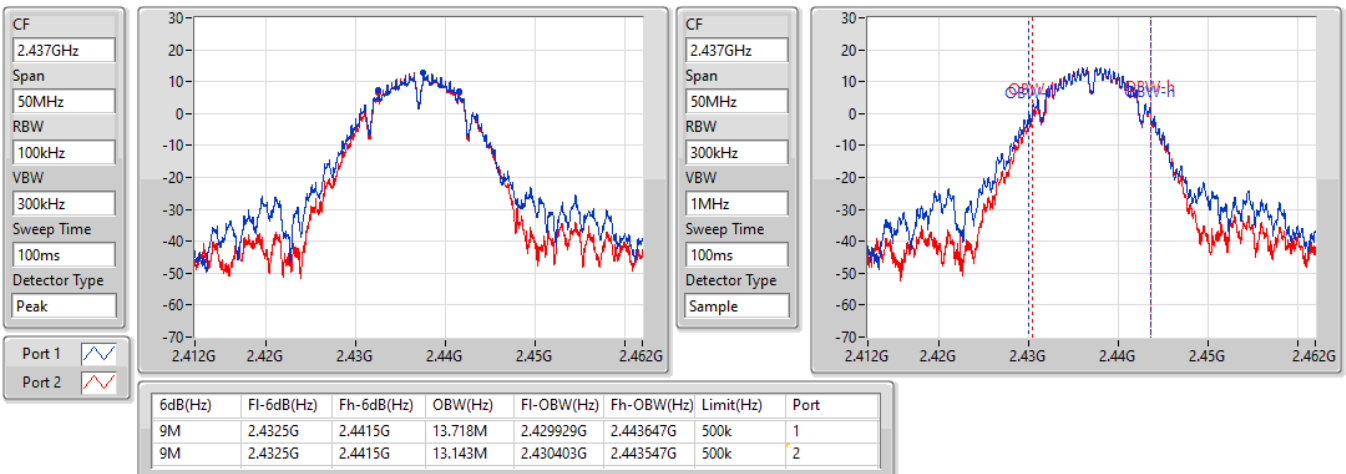


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2437MHz

21/07/2021

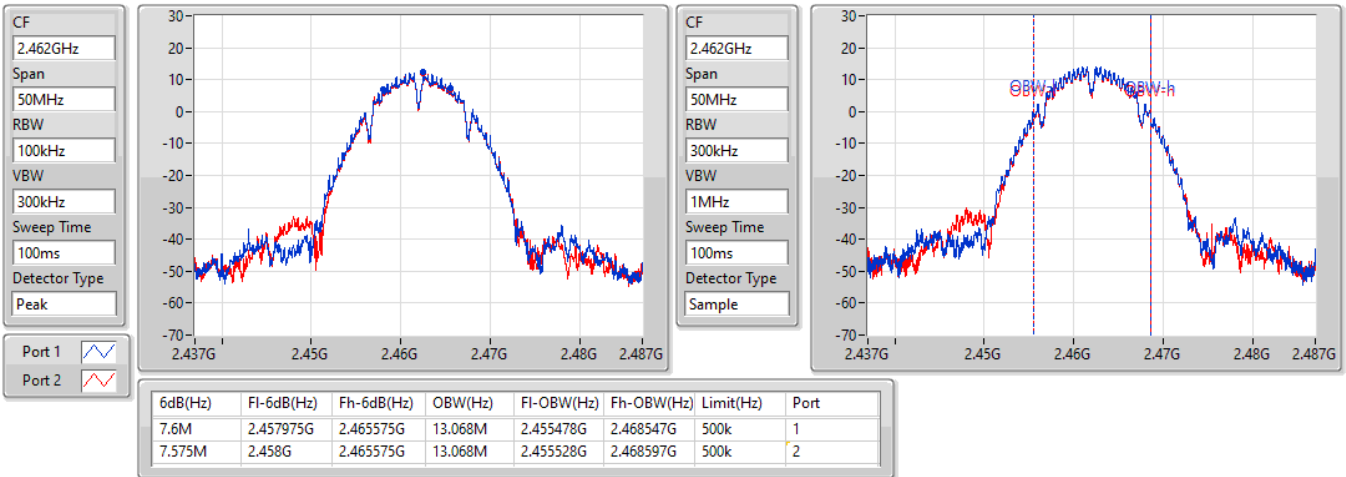


### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

2462MHz

21/07/2021

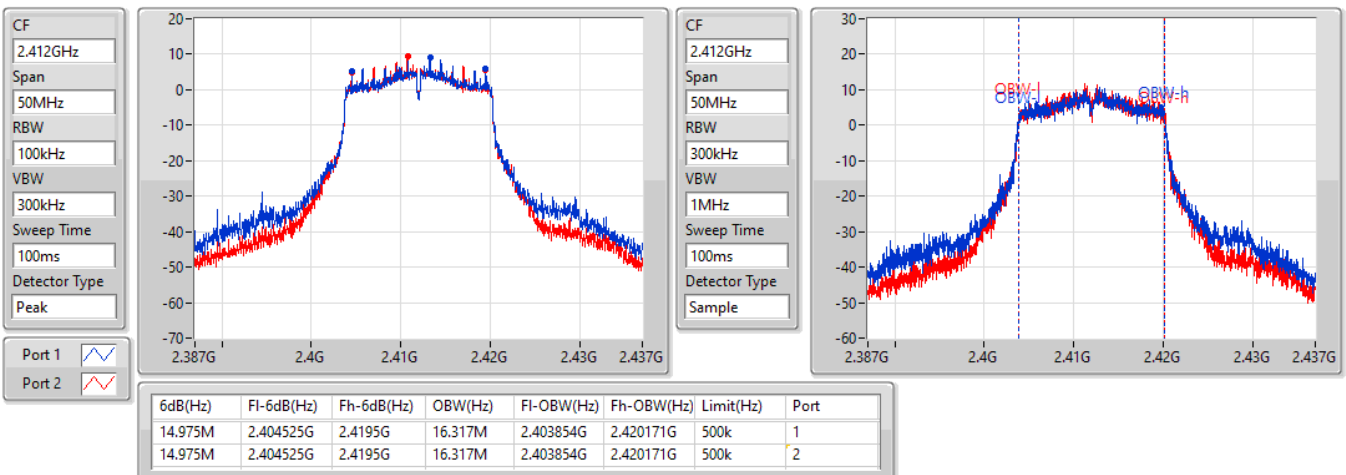


### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2412MHz

21/07/2021

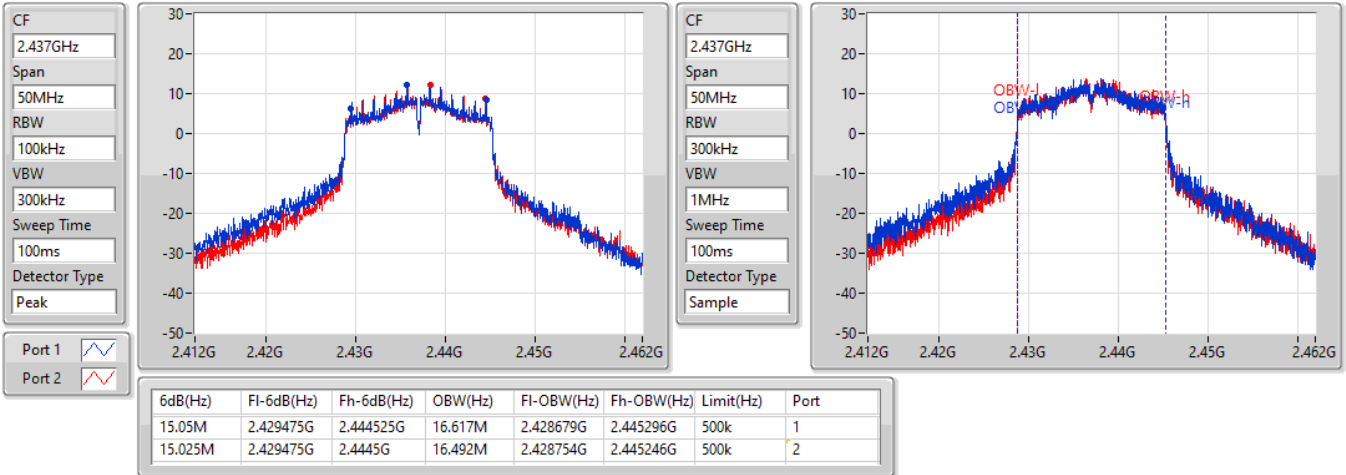


### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2437MHz

21/07/2021

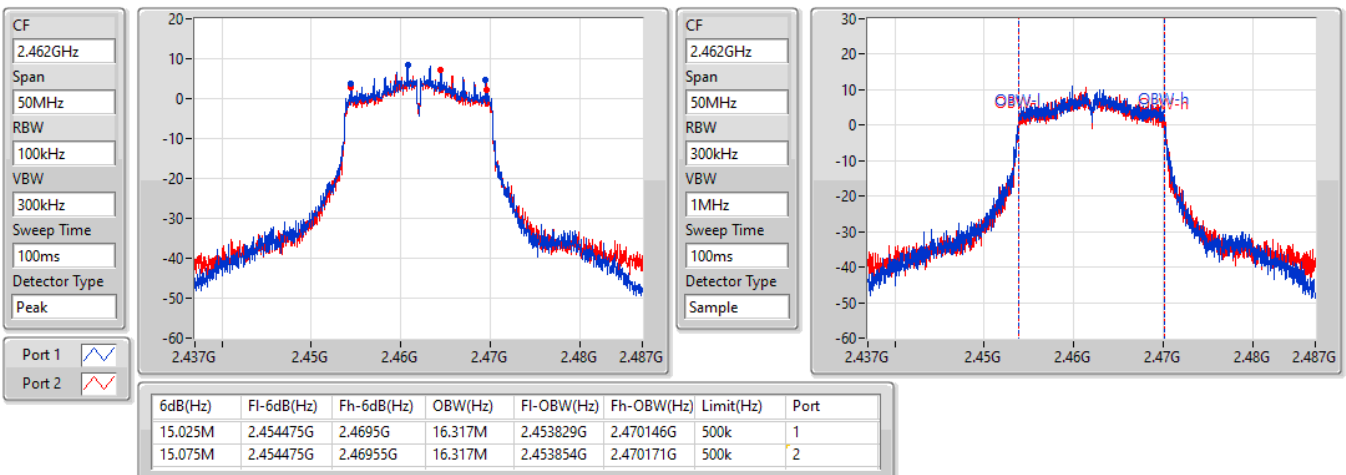


### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

2462MHz

21/07/2021

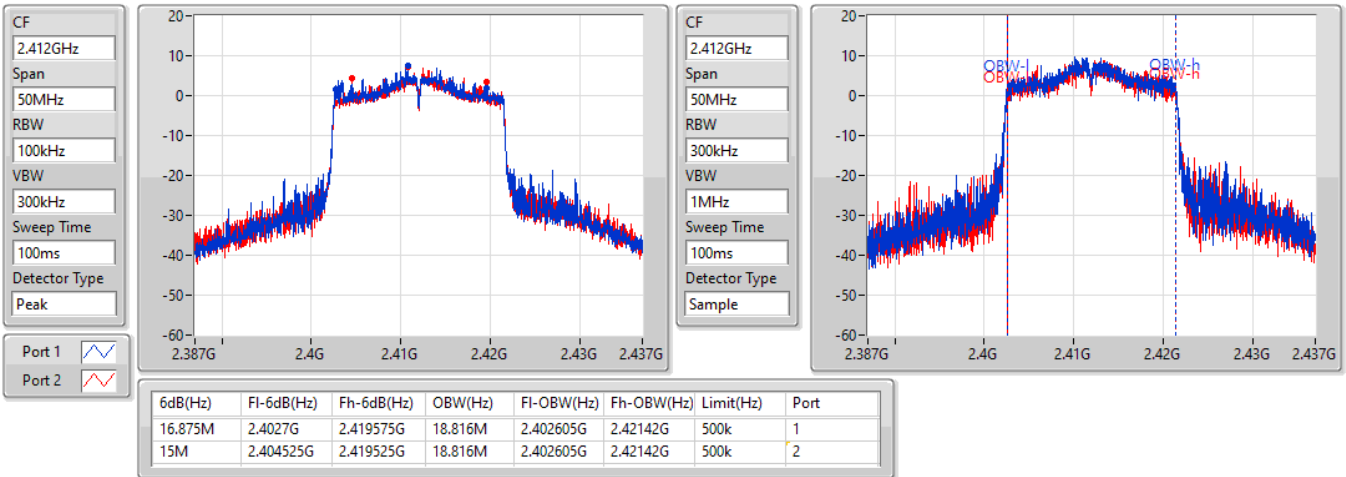


802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2412MHz

21/07/2021

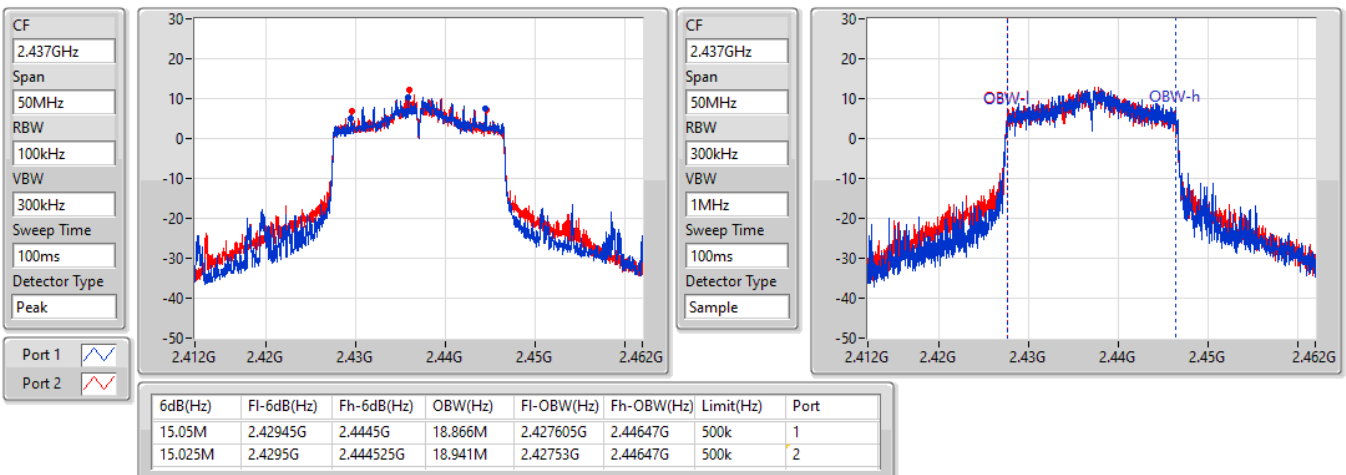


802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2437MHz

21/07/2021

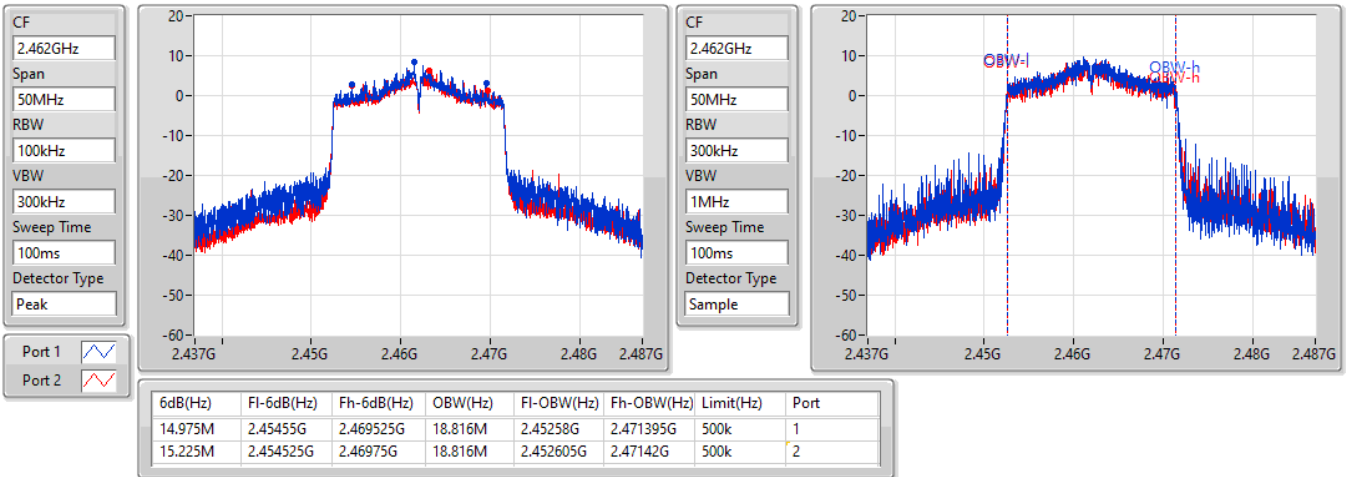


### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

EBW

2462MHz

21/07/2021

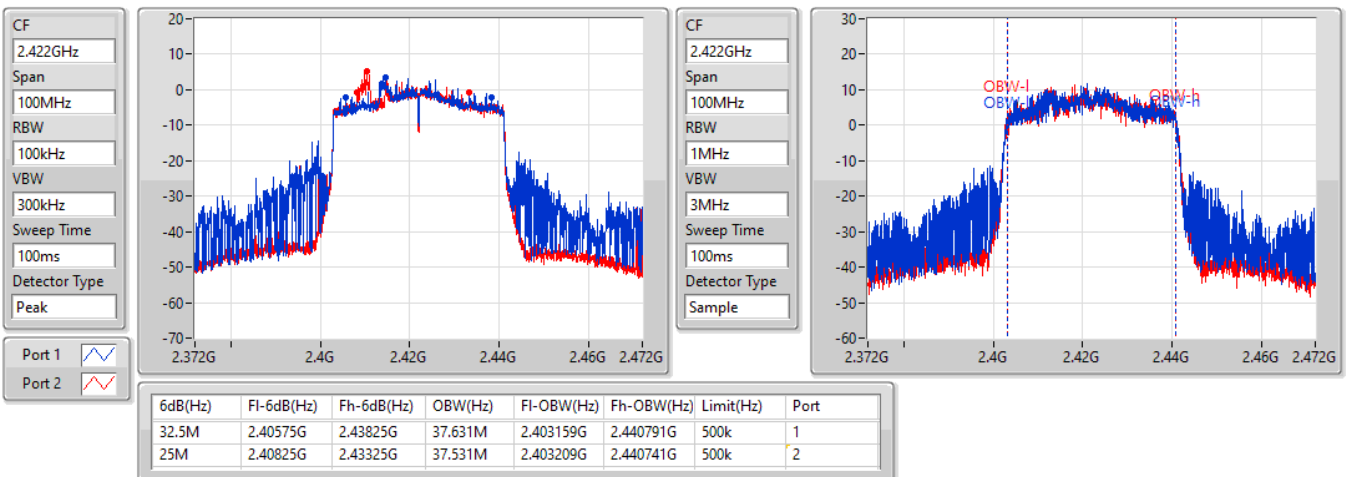


### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2422MHz

21/07/2021

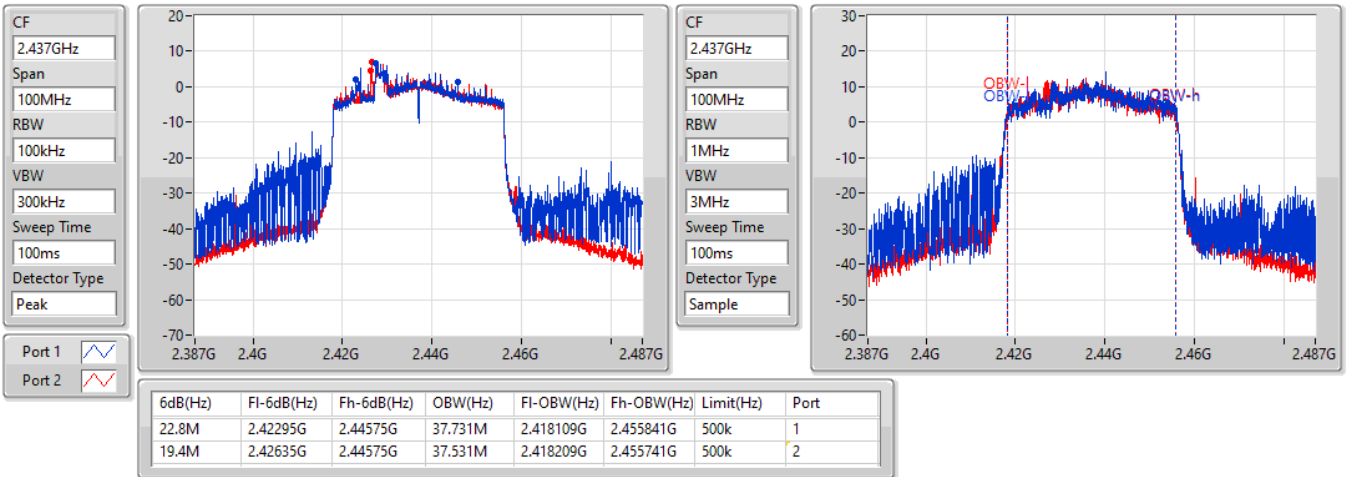


802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2437MHz

21/07/2021

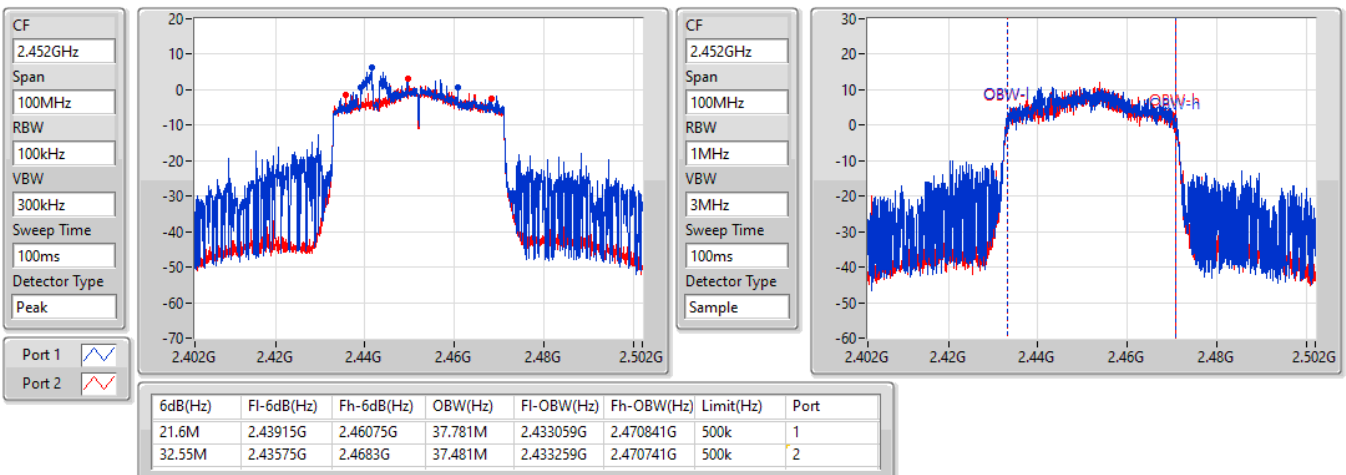


802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

EBW

2452MHz

21/07/2021





**Summary**

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	25.93	0.39174
802.11g_Nss1,(6Mbps)_2TX	24.69	0.29444
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	23.34	0.21577
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.62	0.09162



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.67	21.18	21.13	24.17	30.00
2437MHz	Pass	2.67	22.99	22.84	25.93	30.00
2462MHz	Pass	2.67	21.91	21.69	24.81	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.67	18.50	18.60	21.56	30.00
2417MHz	Pass	2.67	19.60	20.12	22.88	30.00
2437MHz	Pass	2.67	21.74	21.61	24.69	30.00
2457MHz	Pass	2.67	19.43	19.14	22.30	30.00
2462MHz	Pass	2.67	17.47	17.31	20.40	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.41	16.18	16.79	19.51	30.00
2417MHz	Pass	5.41	17.22	17.35	20.30	30.00
2437MHz	Pass	5.41	20.45	20.21	23.34	30.00
2457MHz	Pass	5.41	17.49	17.38	20.45	30.00
2462MHz	Pass	5.41	16.84	16.27	19.57	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.41	15.52	15.48	18.51	30.00
2437MHz	Pass	5.41	16.62	16.59	19.62	30.00
2452MHz	Pass	5.41	15.68	15.52	18.61	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	0.10
802.11g_Nss1,(6Mbps)_2TX	-2.73
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-3.11
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-7.91

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.41	-4.43	-4.05	-2.23	8.00
2437MHz	Pass	5.41	-1.02	-1.34	0.10	8.00
2462MHz	Pass	5.41	-2.61	-3.10	-1.45	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.41	-8.60	-7.82	-5.87	8.00
2437MHz	Pass	5.41	-4.48	-4.54	-2.73	8.00
2462MHz	Pass	5.41	-8.71	-9.51	-6.90	8.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.41	-8.51	-8.15	-6.63	8.00
2437MHz	Pass	5.41	-5.32	-5.54	-3.11	8.00
2462MHz	Pass	5.41	-8.43	-7.92	-6.70	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.41	-9.97	-9.87	-9.36	8.00
2437MHz	Pass	5.41	-9.78	-9.94	-7.91	8.00
2452MHz	Pass	5.41	-12.24	-11.76	-10.04	8.00

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)\_2TX

### PSD

2412MHz

21/07/2021

CF  
2.412GHz

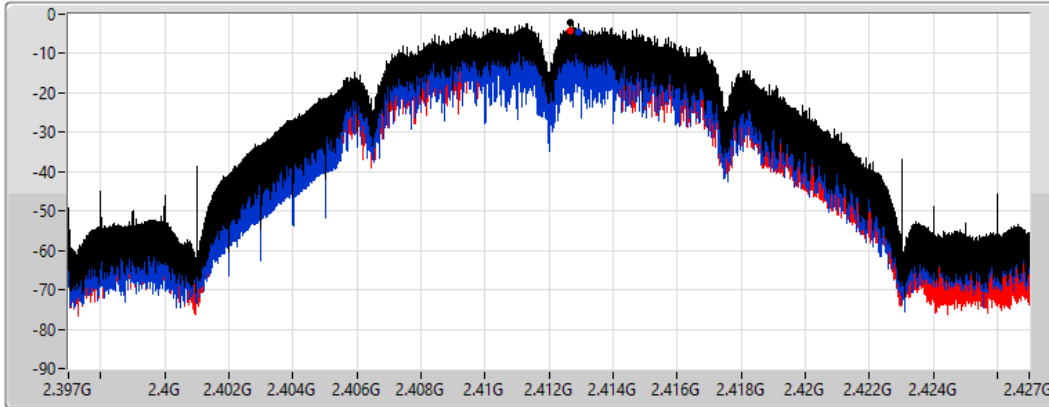
Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
4.424357ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.23	-2.23	-4.43	-4.05

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

### PSD

2437MHz

11/08/2021

CF  
2.437GHz

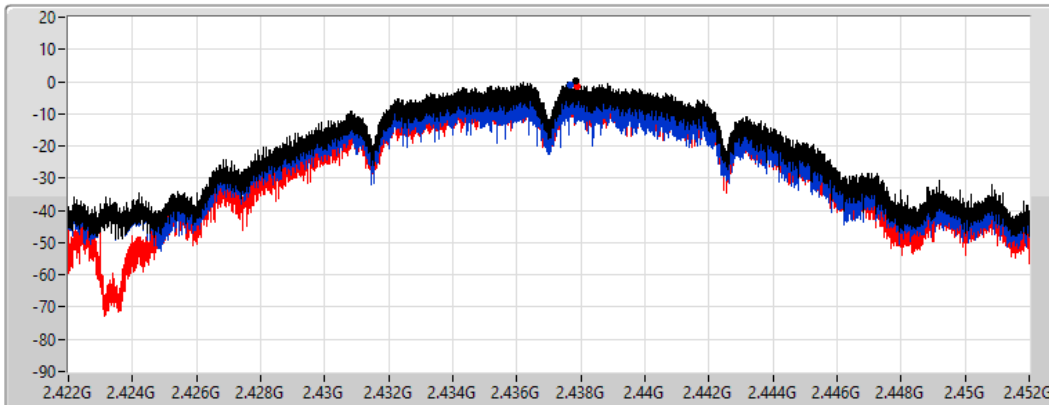
Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
4.424357ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.10	0.10	-1.02	-1.34

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

### PSD

2462MHz

21/07/2021

CF  
2.462GHz

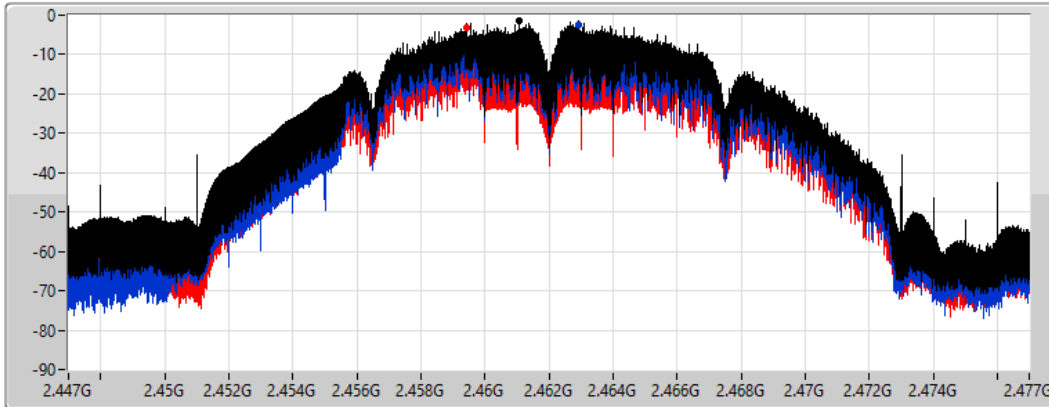
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.45	-1.45	-2.61	-3.10

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

### PSD

2412MHz

21/07/2021

CF  
2.412GHz

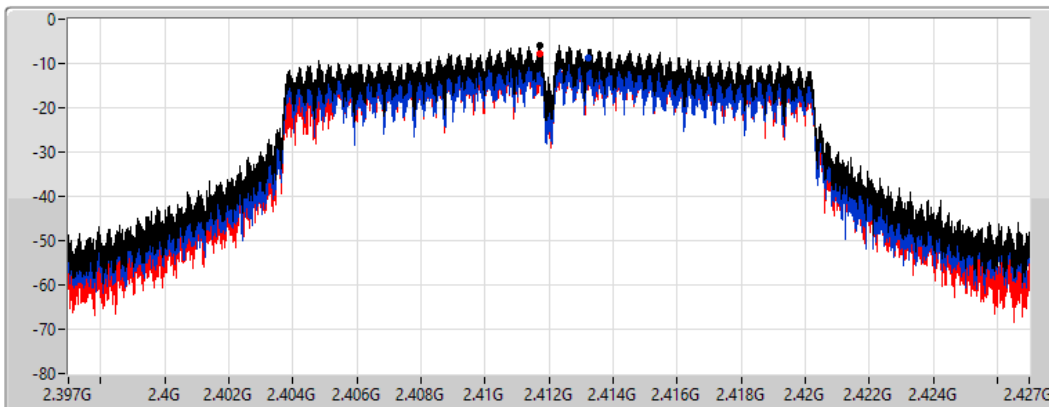
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.87	-5.87	-8.60	-7.82

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

### PSD

2437MHz

21/07/2021

CF  
2.437GHz

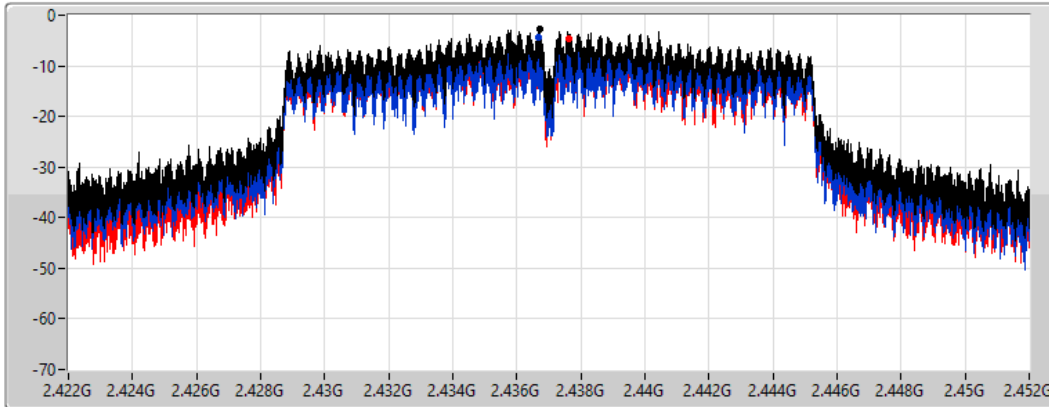
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.73	-2.73	-4.48	-4.54

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

### PSD

2462MHz

21/07/2021

CF  
2.462GHz

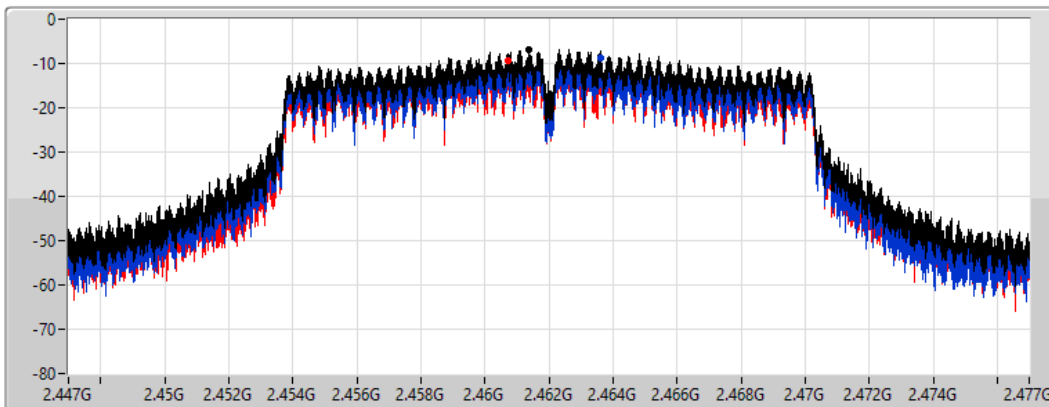
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.90	-6.90	-8.71	-9.51

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

PSD

#### 2412MHz

21/07/2021

CF  
2.412GHz

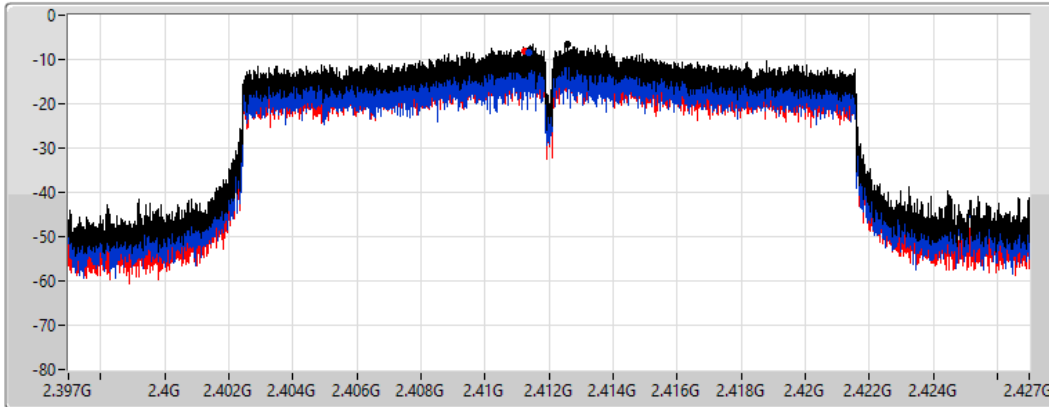
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.63	-6.63	-8.51	-8.15

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

PSD

#### 2437MHz

21/07/2021

CF  
2.437GHz

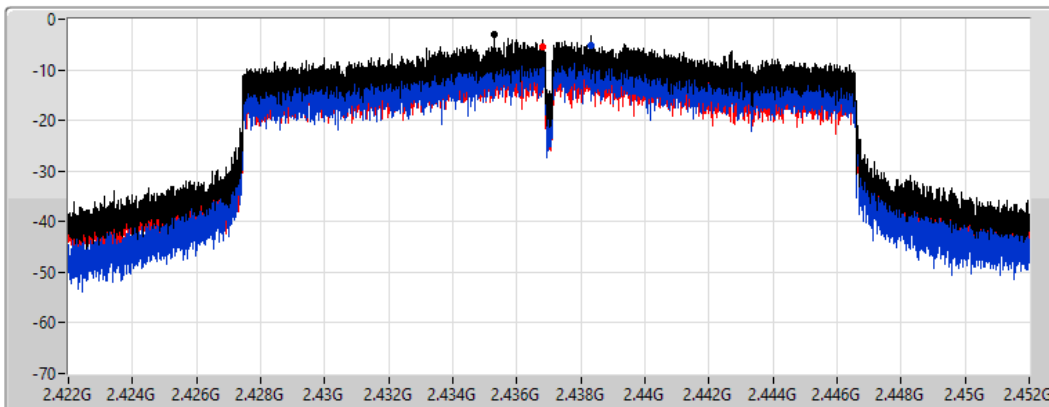
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.11	-3.11	-5.32	-5.54

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

PSD

2462MHz

21/07/2021

CF  
2.462GHz

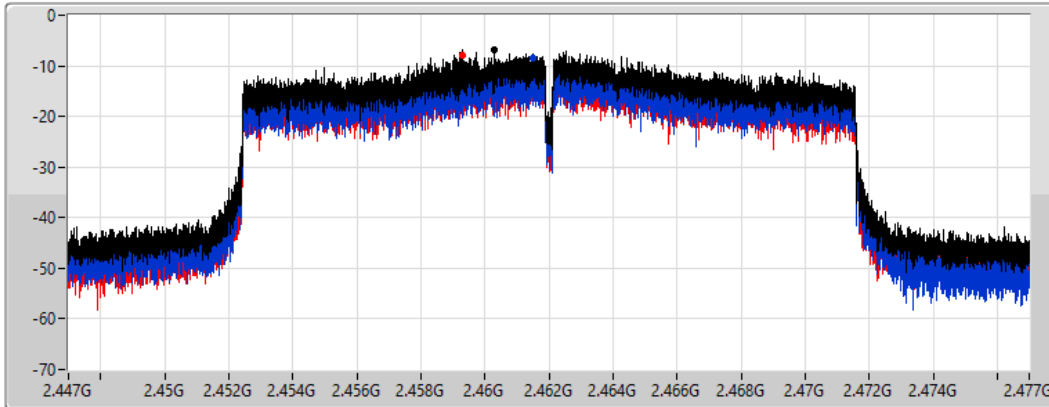
Span  
30MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
4.424357ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.70	-6.70	-8.43	-7.92

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

PSD

2422MHz

21/07/2021

CF  
2.422GHz

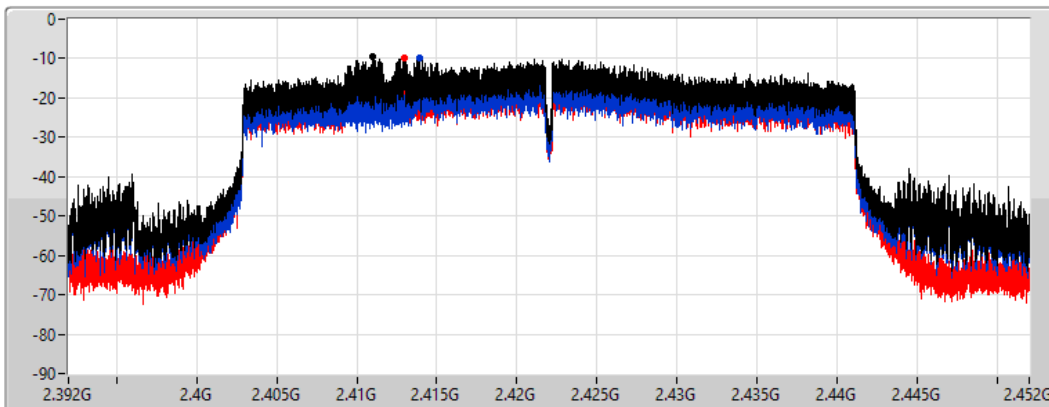
Span  
60MHz


RBW  
3kHz


VBW  
10kHz


Sweep Time  
8.848933ms

Detector Type  
Peak



Sum 

Port 1 

Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.36	-9.36	-9.97	-9.87

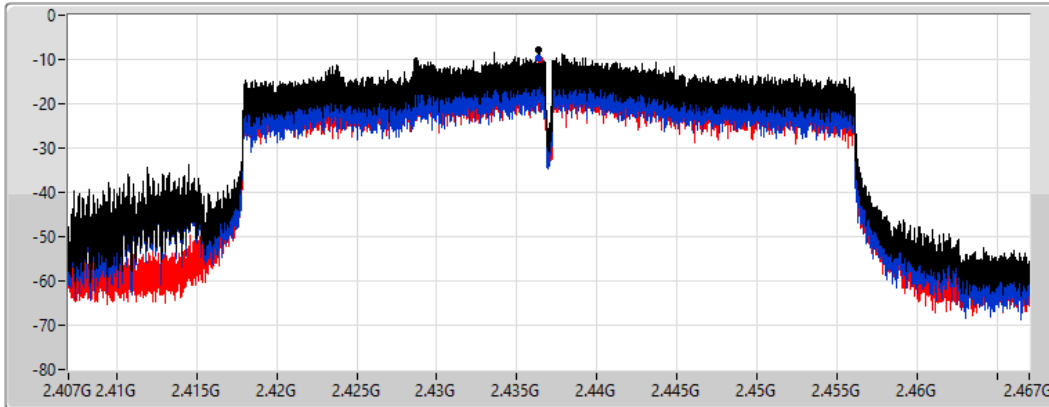
### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




PSD

2437MHz

21/07/2021

CF  
2.437GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
8.848933ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.91	-7.91	-9.78	-9.94

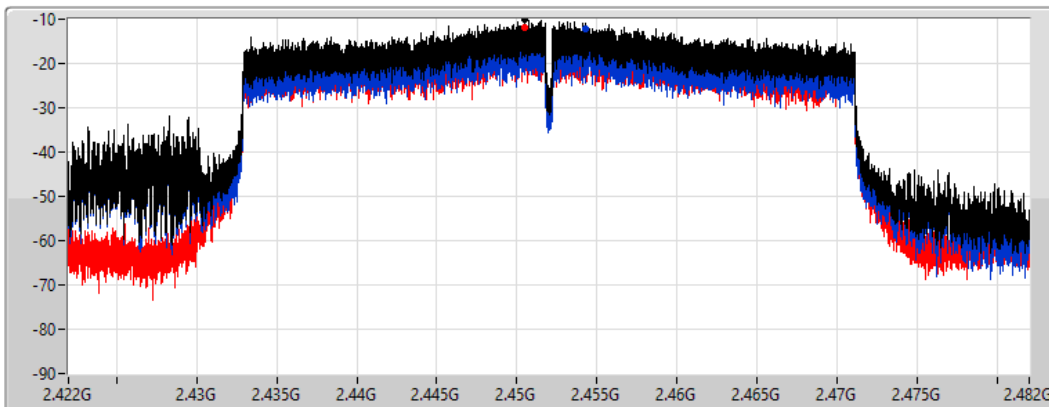
### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX




PSD

2452MHz

21/07/2021

CF  
2.452GHz  
Span  
60MHz  
RBW  
3kHz  
VBW  
10kHz  
Sweep Time  
8.848933ms  
Detector Type  
Peak



Sum   
Port 1   
Port 2 

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.04	-10.04	-12.24	-11.76





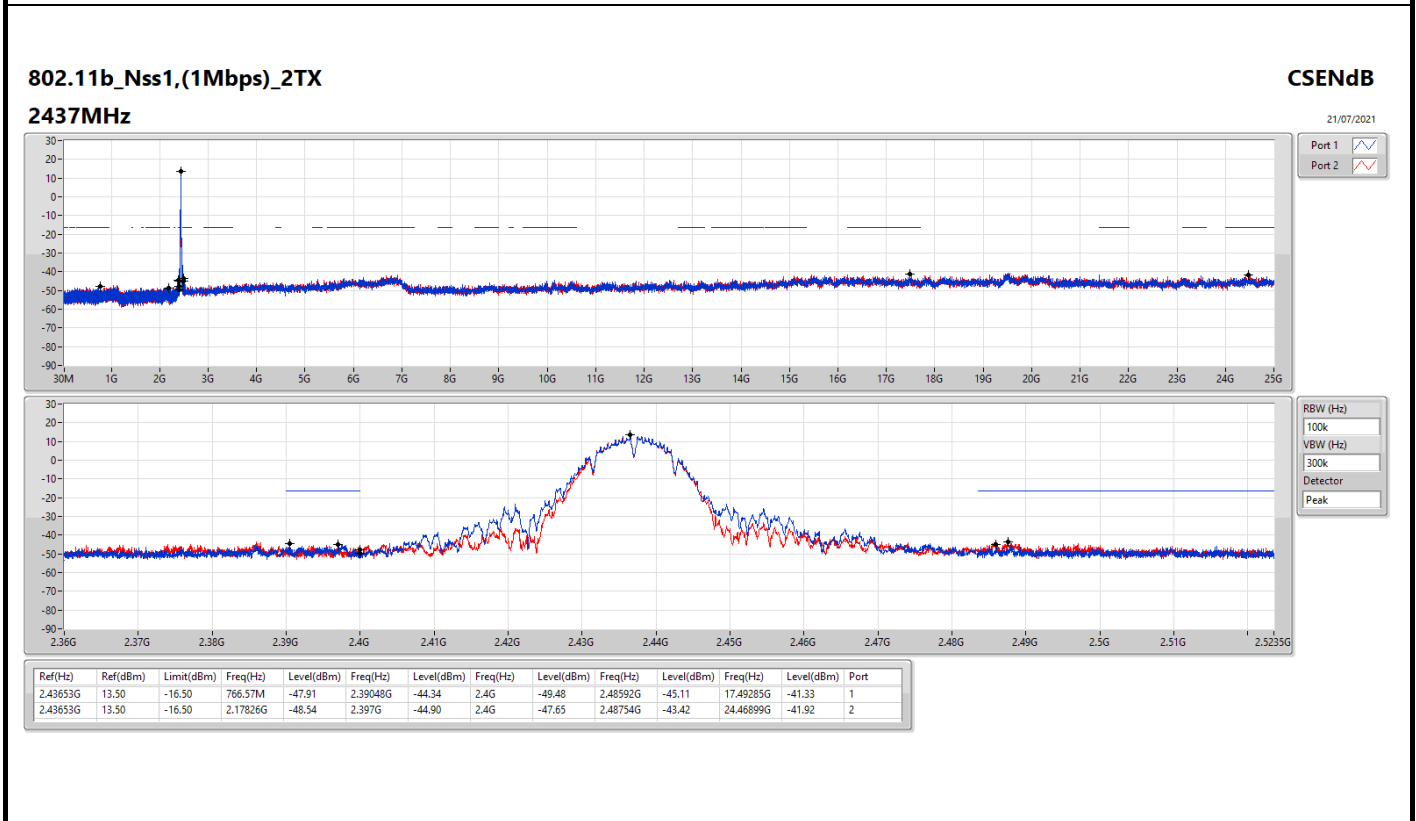
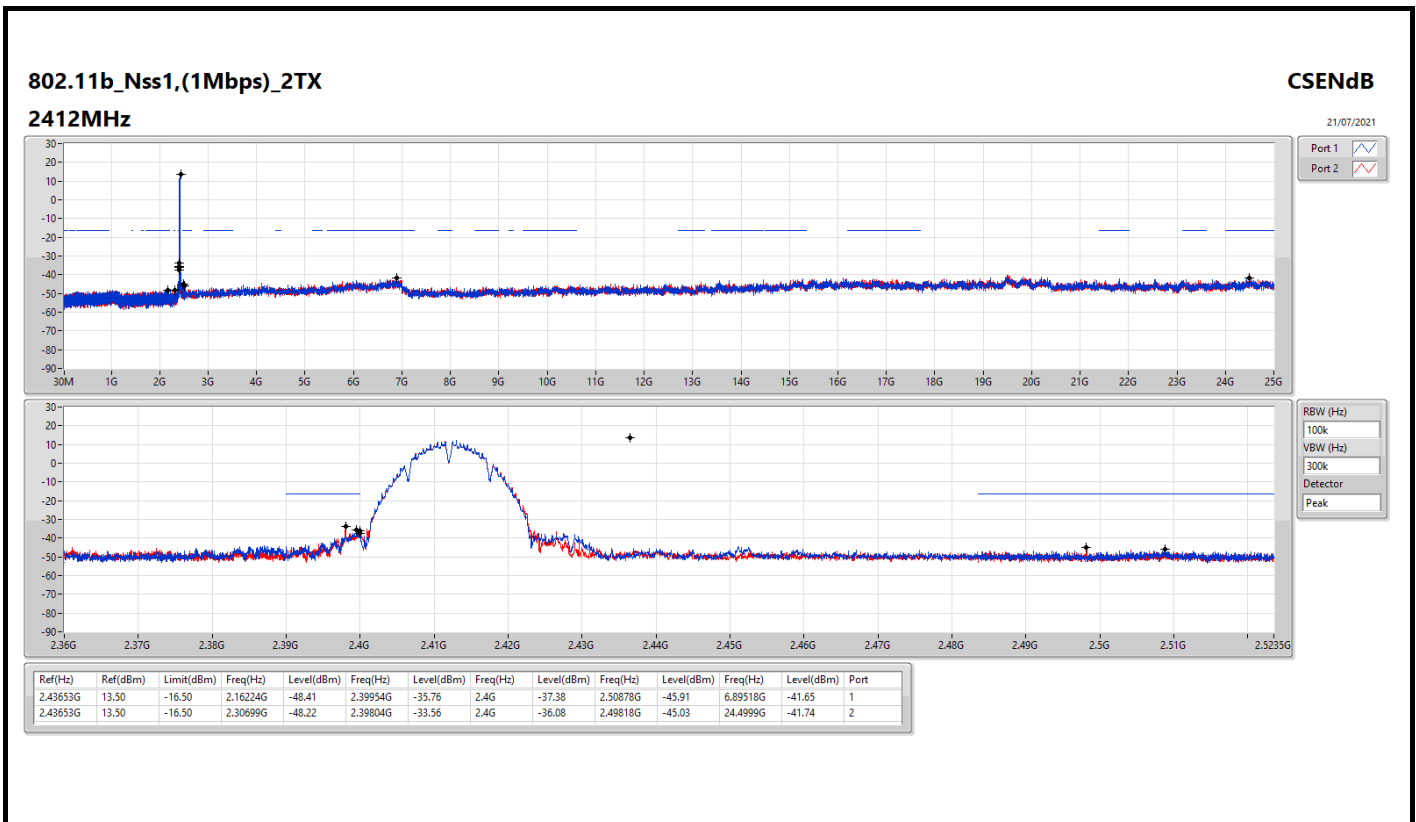
Summary

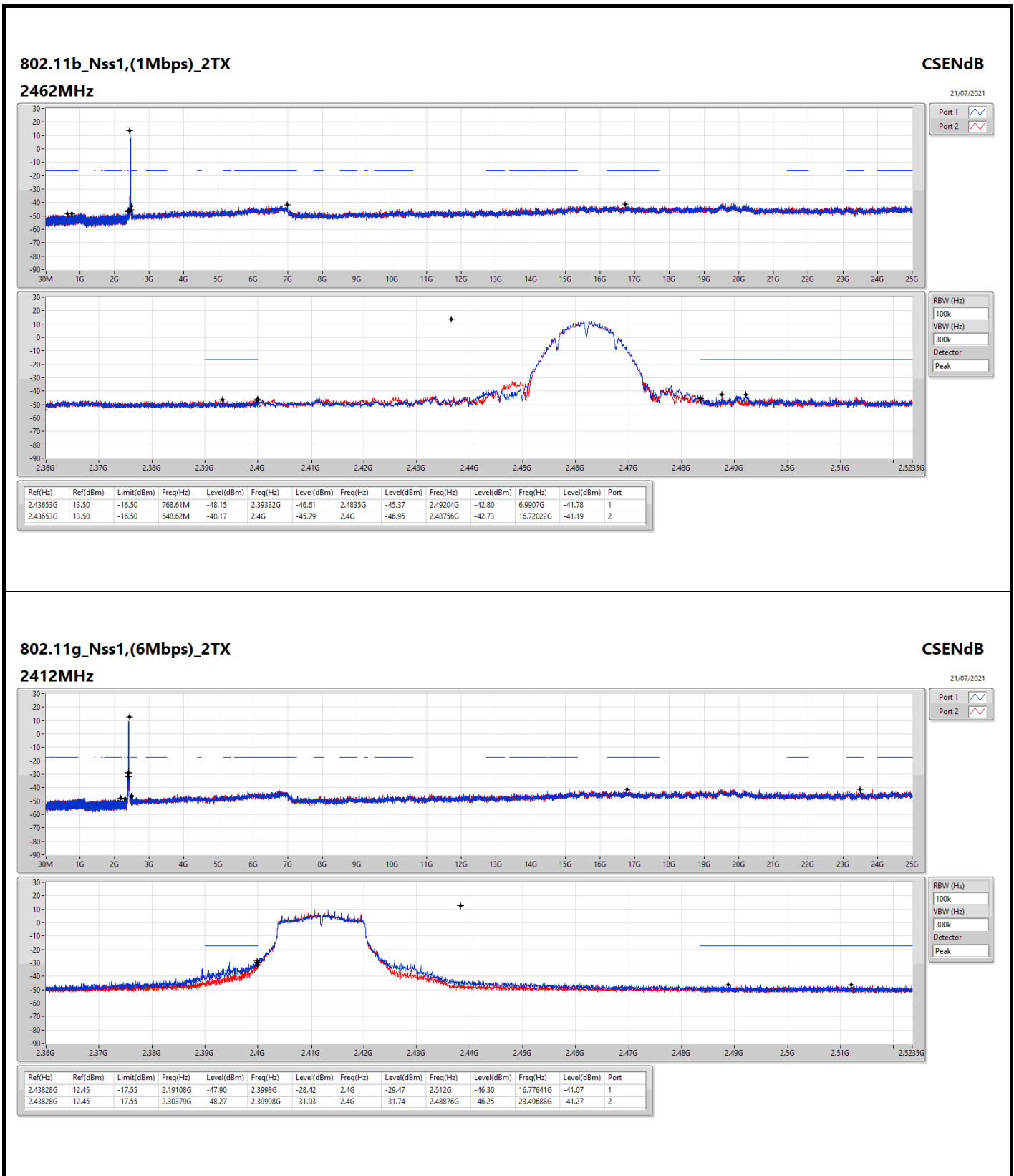
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.43653G	13.50	-16.50	2.30699G	-48.22	2.39804G	-33.56	2.4G	-36.08	2.49818G	-45.03	24.4999G	-41.74	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43828G	12.45	-17.55	2.19108G	-47.90	2.3998G	-28.42	2.4G	-29.47	2.512G	-46.30	16.77641G	-41.07	1
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.43824G	11.07	-18.93	876.96M	-47.13	2.39702G	-20.75	2.4G	-23.90	2.48366G	-46.60	17.42823G	-41.92	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.42547G	6.23	-23.77	1.91038G	-48.02	2.39604G	-28.53	2.4835G	-42.21	2.4941G	-24.96	21.89535G	-41.55	1

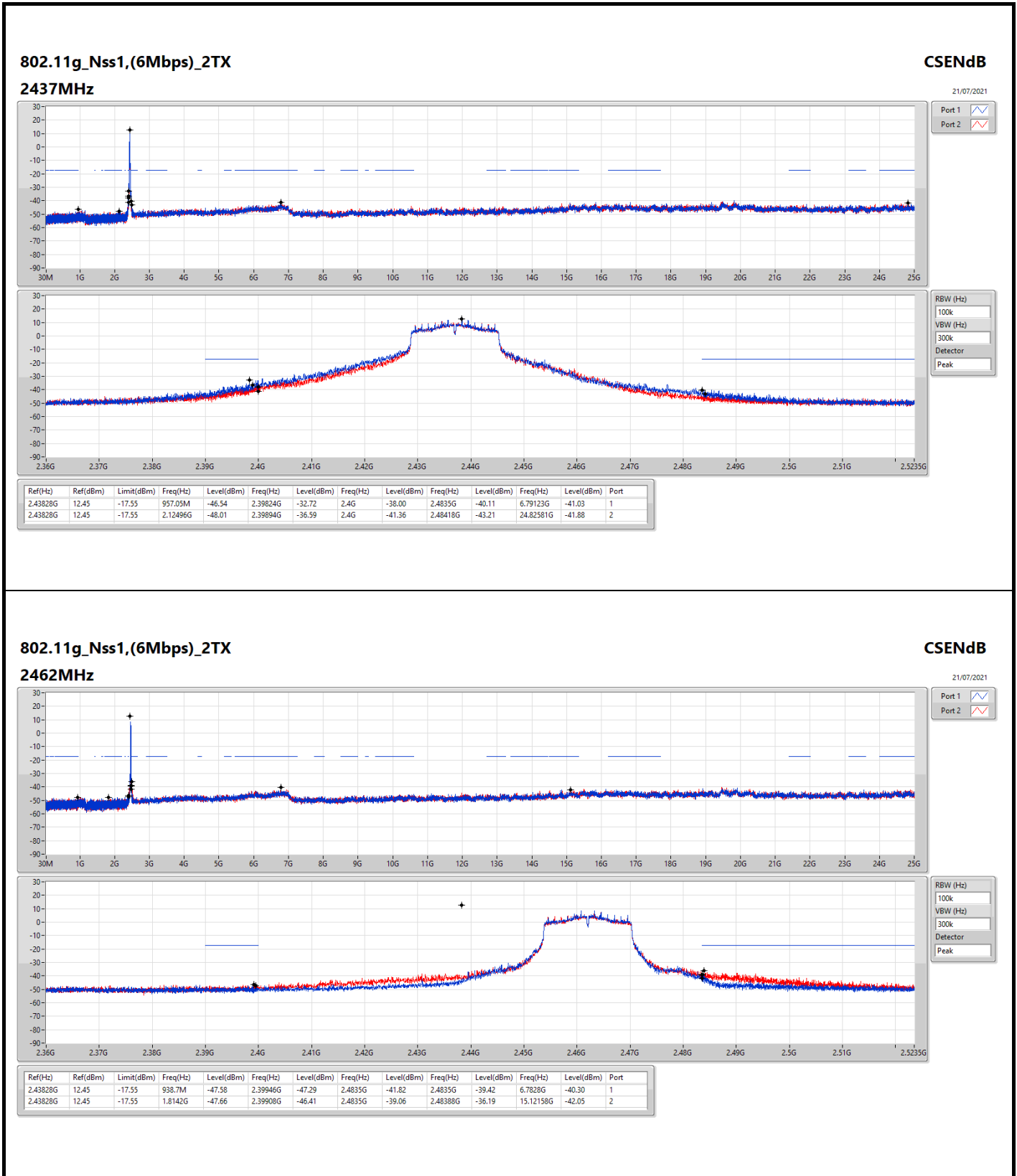


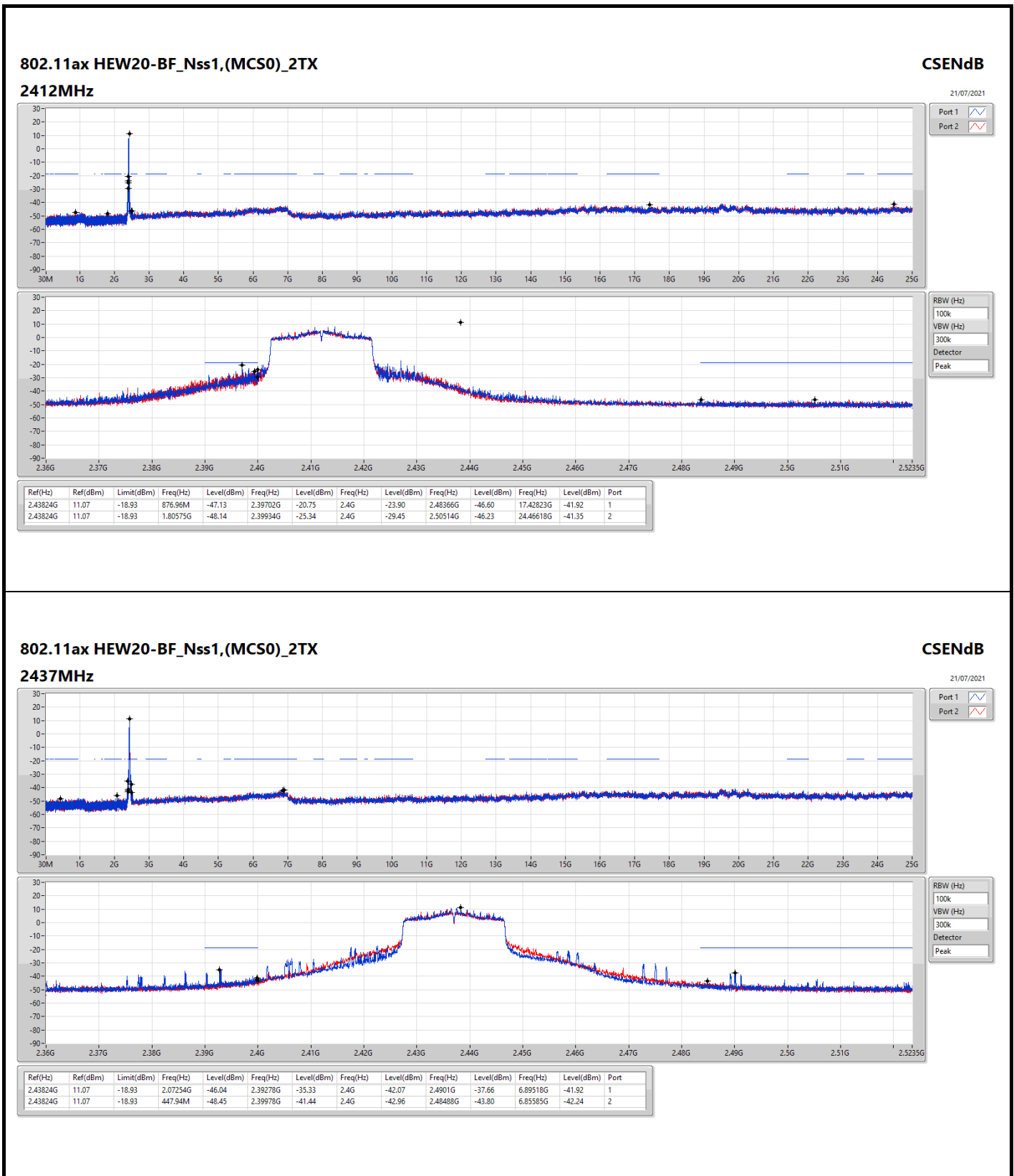
Result

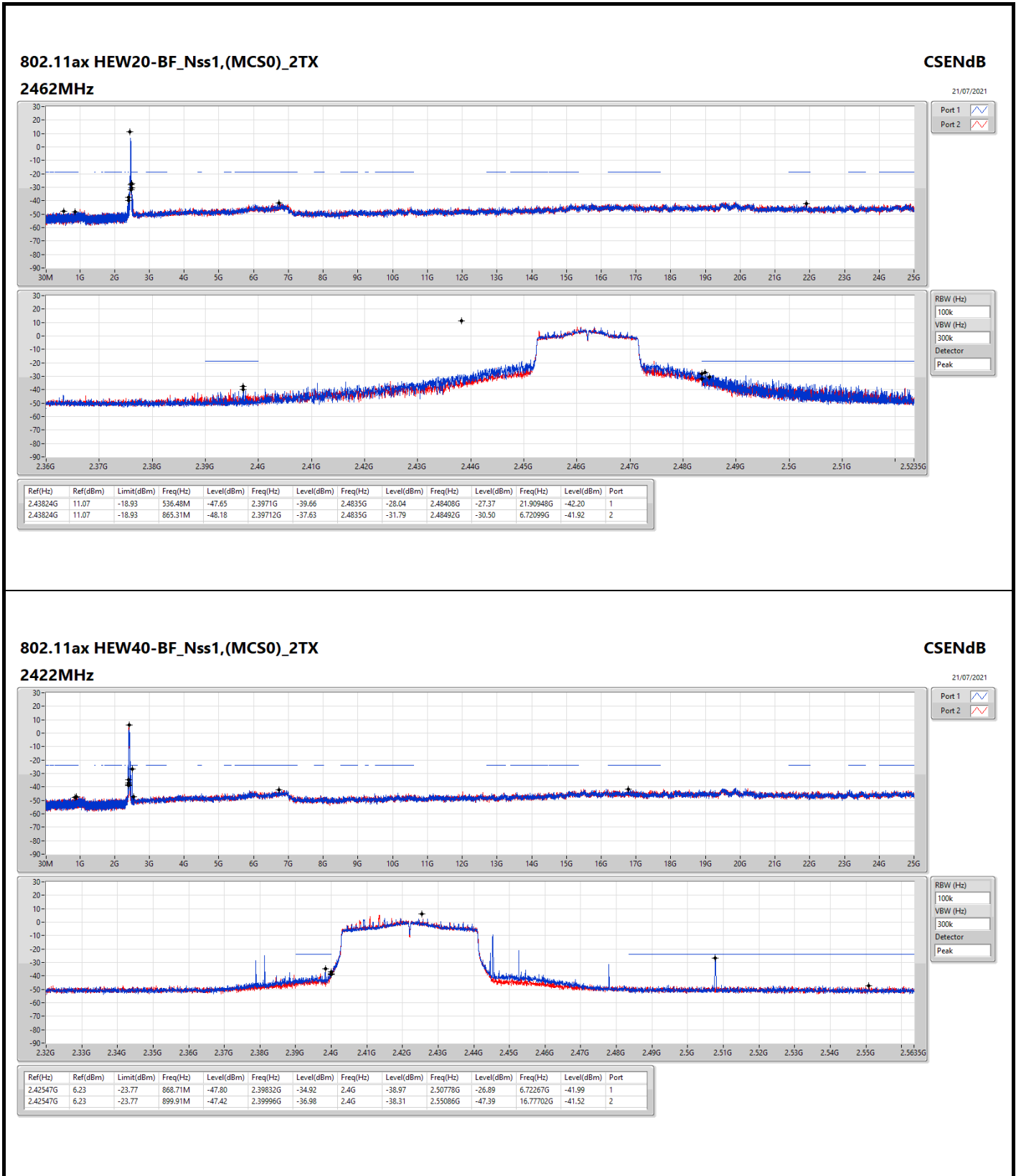
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43653G	13.50	-16.50	2.16224G	-48.41	2.39954G	-35.76	2.4G	-37.38	2.50878G	-45.91	6.89518G	-41.65	1
2412MHz	Pass	2.43653G	13.50	-16.50	2.30699G	-48.22	2.39804G	-33.56	2.4G	-36.08	2.49818G	-45.03	24.4999G	-41.74	2
2437MHz	Pass	2.43653G	13.50	-16.50	766.57M	-47.91	2.39048G	-44.34	2.4G	-49.48	2.48592G	-45.11	17.49285G	-41.33	1
2437MHz	Pass	2.43653G	13.50	-16.50	2.17826G	-48.54	2.397G	-44.90	2.4G	-47.65	2.48754G	-43.42	24.46899G	-41.92	2
2462MHz	Pass	2.43653G	13.50	-16.50	768.61M	-48.15	2.39332G	-46.61	2.4835G	-45.37	2.49204G	-42.80	6.9907G	-41.78	1
2462MHz	Pass	2.43653G	13.50	-16.50	648.62M	-48.17	2.4G	-45.79	2.4G	-46.95	2.48756G	-42.73	16.72022G	-41.19	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43828G	12.45	-17.55	2.19108G	-47.90	2.3998G	-28.42	2.4G	-29.47	2.512G	-46.30	16.77641G	-41.07	1
2412MHz	Pass	2.43828G	12.45	-17.55	2.30379G	-48.27	2.39998G	-31.93	2.4G	-31.74	2.48876G	-46.25	23.49688G	-41.27	2
2437MHz	Pass	2.43828G	12.45	-17.55	957.05M	-46.54	2.39824G	-32.72	2.4G	-38.00	2.4835G	-40.11	6.79123G	-41.03	1
2437MHz	Pass	2.43828G	12.45	-17.55	2.12496G	-48.01	2.39894G	-36.59	2.4G	-41.36	2.48418G	-43.21	24.82581G	-41.88	2
2462MHz	Pass	2.43828G	12.45	-17.55	938.7M	-47.58	2.39946G	-47.29	2.4835G	-41.82	2.4835G	-39.42	6.7828G	-40.30	1
2462MHz	Pass	2.43828G	12.45	-17.55	1.8142G	-47.66	2.39908G	-46.41	2.4835G	-39.06	2.48388G	-36.19	15.12158G	-42.05	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	11.07	-18.93	876.96M	-47.13	2.39702G	-20.75	2.4G	-23.90	2.48366G	-46.60	17.42823G	-41.92	1
2412MHz	Pass	2.43824G	11.07	-18.93	1.80575G	-48.14	2.39934G	-25.34	2.4G	-29.45	2.50514G	-46.23	24.46618G	-41.35	2
2437MHz	Pass	2.43824G	11.07	-18.93	2.07254G	-46.04	2.39278G	-35.33	2.4G	-42.07	2.4901G	-37.66	6.89518G	-41.92	1
2437MHz	Pass	2.43824G	11.07	-18.93	447.94M	-48.45	2.39978G	-41.44	2.4G	-42.96	2.48488G	-43.80	6.85585G	-42.24	1
2462MHz	Pass	2.43824G	11.07	-18.93	536.48M	-47.65	2.3971G	-39.66	2.4835G	-28.04	2.48408G	-27.37	21.90948G	-42.20	1
2462MHz	Pass	2.43824G	11.07	-18.93	865.31M	-48.18	2.39712G	-37.63	2.4835G	-31.79	2.48492G	-30.50	6.72099G	-41.92	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42547G	6.23	-23.77	868.71M	-47.80	2.39832G	-34.92	2.4G	-38.97	2.50778G	-26.89	6.72267G	-41.99	1
2422MHz	Pass	2.42547G	6.23	-23.77	899.91M	-47.42	2.39996G	-36.98	2.4G	-38.31	2.55086G	-47.39	16.77702G	-41.52	2
2437MHz	Pass	2.42547G	6.23	-23.77	48.89M	-42.30	2.39456G	-25.12	2.4835G	-35.24	2.49322G	-25.10	2.57752G	-37.65	1
2437MHz	Pass	2.42547G	6.23	-23.77	813.47M	-47.28	2.3952G	-31.84	2.4G	-43.87	2.5047G	-43.09	6.83765G	-41.45	2
2452MHz	Pass	2.42547G	6.23	-23.77	1.91038G	-48.02	2.39604G	-28.53	2.4835G	-42.21	2.4941G	-24.96	21.89535G	-41.55	1
2452MHz	Pass	2.42547G	6.23	-23.77	191.73M	-47.93	2.39972G	-43.40	2.4835G	-30.74	2.48954G	-25.33	16.85555G	-41.80	2

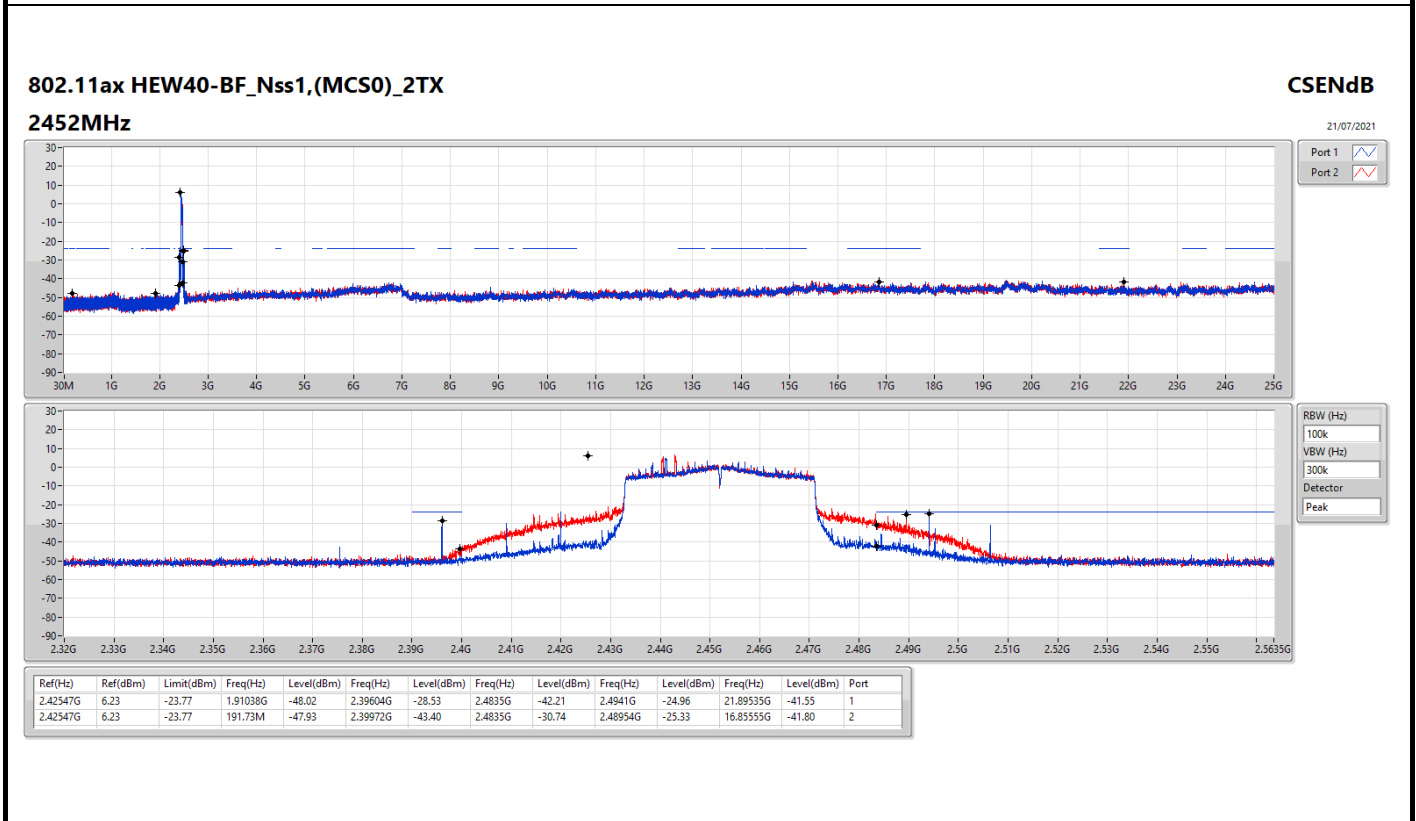
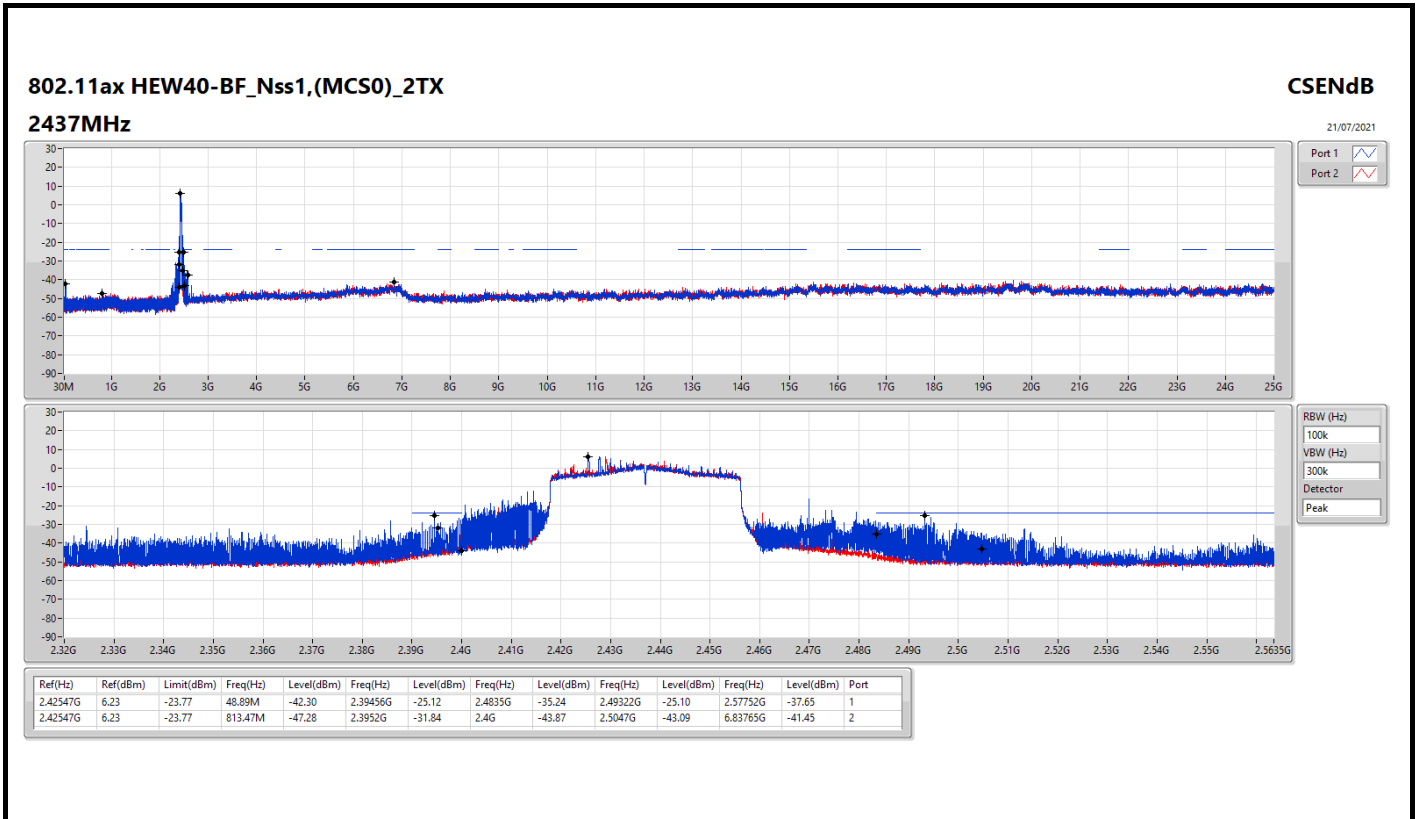












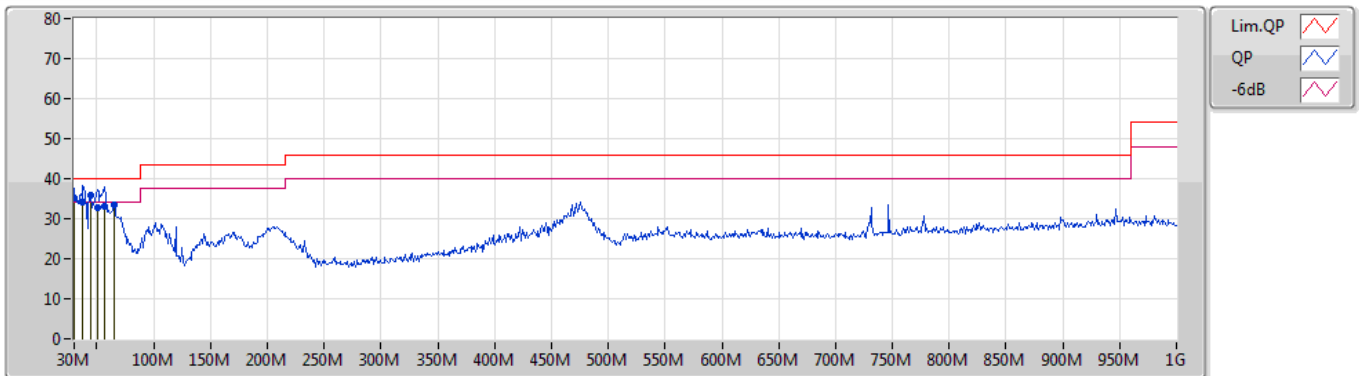




**Summary**

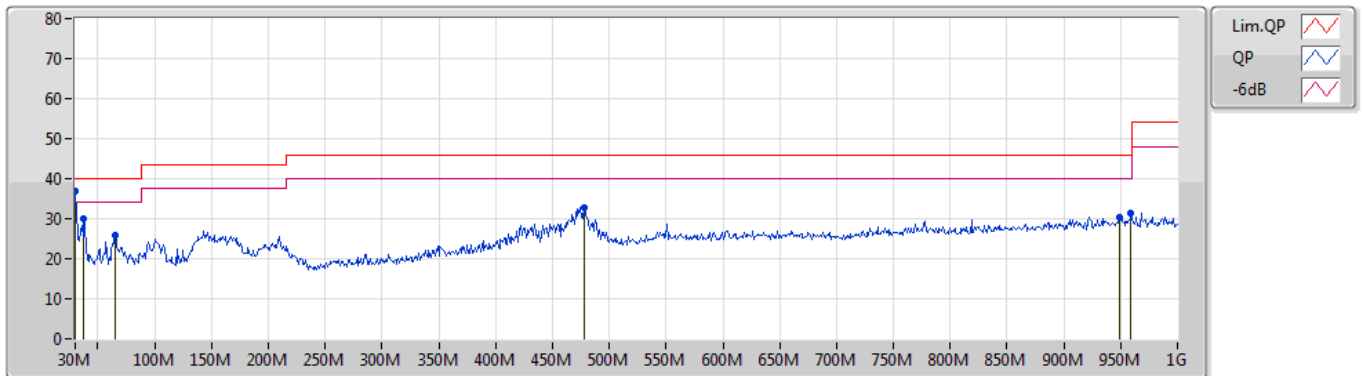
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	30M	36.99	40.00	-3.01	Horizontal

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
QP	30M	35.31	40.00	-4.69	-4.21	3	Vertical	209	2.00	-	39.52	23.67	0.61	28.49
QP	37.76M	34.00	40.00	-6.00	-7.46	3	Vertical	271	1.25	-	41.46	20.29	0.73	28.48
PK	44.55M	35.69	40.00	-4.31	-10.84	3	Vertical	10	1.00	"Worst"	46.53	16.87	0.77	28.48
QP	50.37M	32.65	40.00	-7.35	-13.75	3	Vertical	4	1.00	-	46.40	13.91	0.83	28.49
QP	57.16M	33.01	40.00	-6.99	-15.31	3	Vertical	352	1.25	-	48.32	12.28	0.90	28.49
PK	64.92M	33.45	40.00	-6.55	-15.56	3	Vertical	99	1.25	-	49.01	11.97	0.95	28.48

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	36.99	40.00	-3.01	-4.21	3	Horizontal	322	2.00	"Worst"	41.20	23.67	0.61	28.49
PK	37.76M	30.01	40.00	-9.99	-7.46	3	Horizontal	291	1.25	-	37.47	20.29	0.73	28.48
PK	64.92M	25.86	40.00	-14.14	-15.56	3	Horizontal	261	2.00	-	41.42	11.97	0.95	28.48
PK	478.14M	32.69	46.00	-13.31	-3.79	3	Horizontal	142	1.00	-	36.48	22.65	2.66	29.10
PK	948.59M	30.40	46.00	-15.60	1.20	3	Horizontal	7	1.00	-	29.20	25.91	3.85	28.56
PK	959.26M	31.22	46.00	-14.78	1.28	3	Horizontal	360	1.00	-	29.94	25.94	3.87	28.53

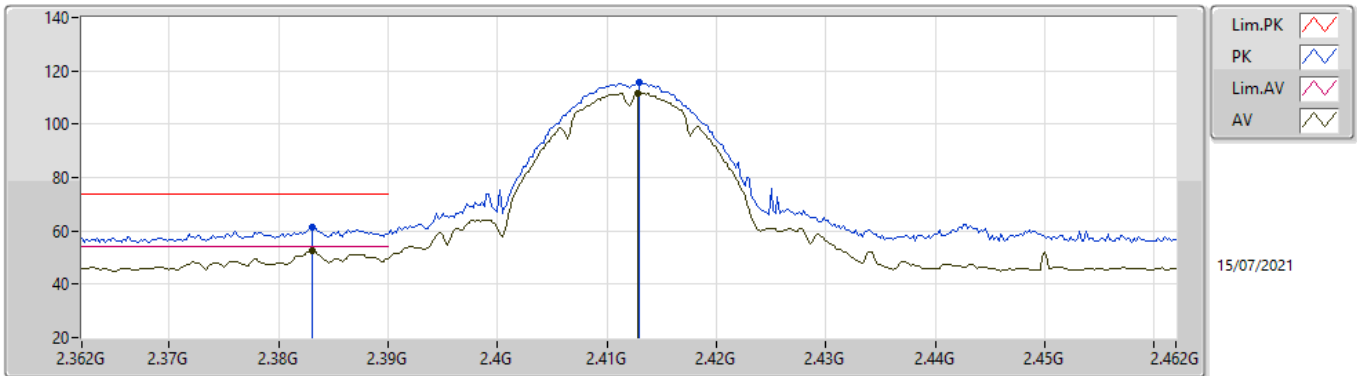


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.3894G	52.95	54.00	-1.05	3	Vertical	170	1.80	-

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

### 2412MHz\_TX

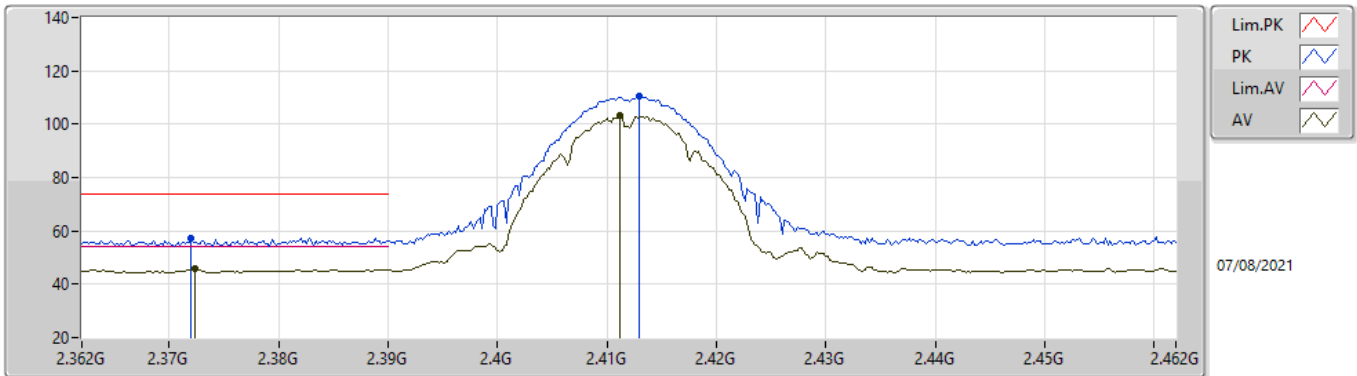


EUT\_Z\_2TX  
Setting 21  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.383G	61.13	74.00	-12.87	29.32	3	Vertical	42	1.79	-	28.33	3.48	-
AV	2.383G	52.54	54.00	-1.46	20.73	3	Vertical	42	1.79	-	28.33	3.48	-
PK	2.413G	115.75	Inf	-Inf	83.91	3	Vertical	42	1.79	-	28.33	3.51	-
AV	2.4128G	111.71	Inf	-Inf	79.87	3	Vertical	42	1.79	-	28.33	3.51	-

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

### 2412MHz\_TX

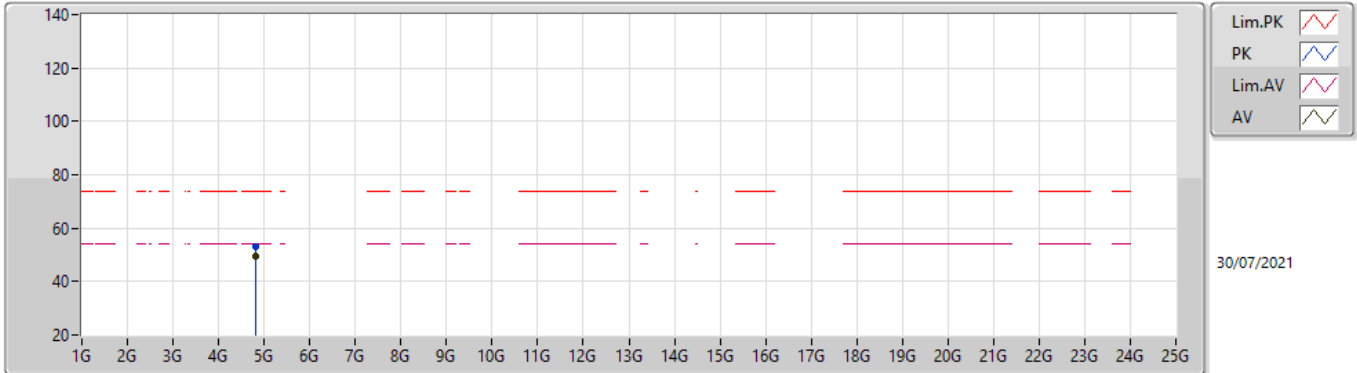


EUT\_Z\_2TX  
Setting 21  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.372G	57.15	74.00	-16.85	25.32	3	Horizontal	0	2.51	-	28.36	3.47	-
AV	2.3724G	45.73	54.00	-8.27	13.90	3	Horizontal	0	2.51	-	28.36	3.47	-
PK	2.413G	110.48	Inf	-Inf	78.64	3	Horizontal	0	2.51	-	28.33	3.51	-
AV	2.4112G	103.08	Inf	-Inf	71.25	3	Horizontal	0	2.51	-	28.32	3.51	-

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

### 2412MHz\_TX

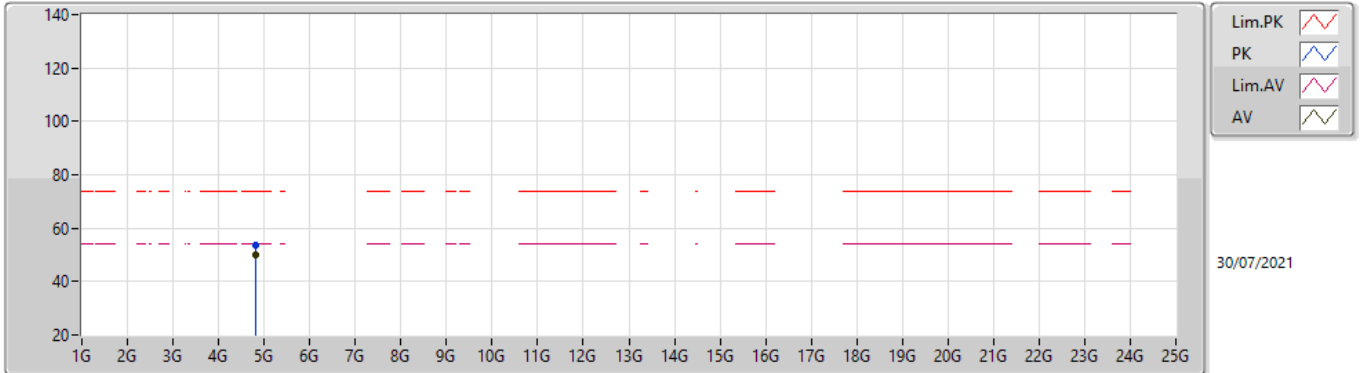


EUT\_Z\_2TX  
Setting 21  
02-A-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82402G	53.07	74.00	-20.93	47.79	3	Vertical	177	2.23	-	32.80	4.70	32.22
AV	4.82402G	49.56	54.00	-4.44	44.28	3	Vertical	177	2.23	-	32.80	4.70	32.22

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

### 2412MHz\_TX



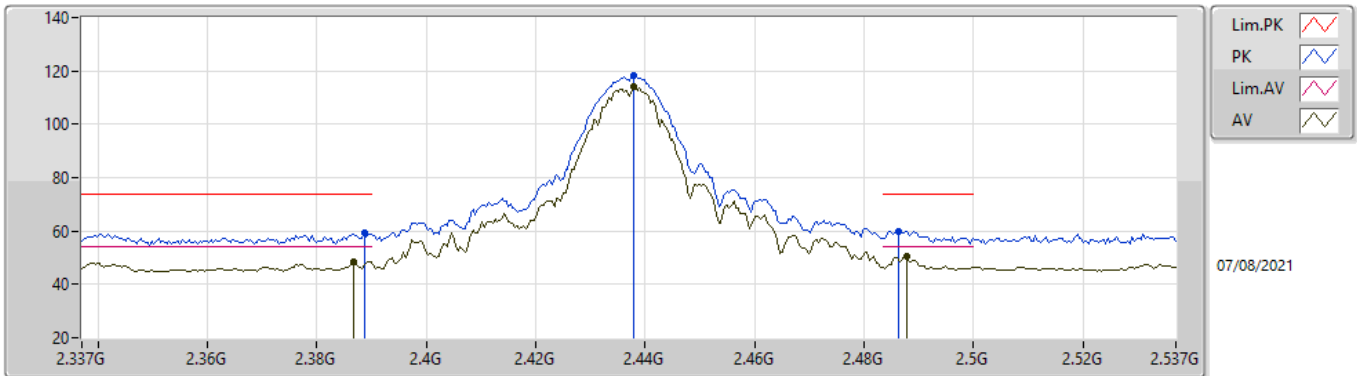
EUT\_Z\_2TX  
Setting 21  
02-A-K-3

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	4.82404G	53.66	74.00	-20.34	48.38	3	Horizontal	156	1.97	-	32.80	4.70	32.22
AV	4.82402G	50.25	54.00	-3.75	44.97	3	Horizontal	156	1.97	-	32.80	4.70	32.22



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

### 2437MHz\_TX

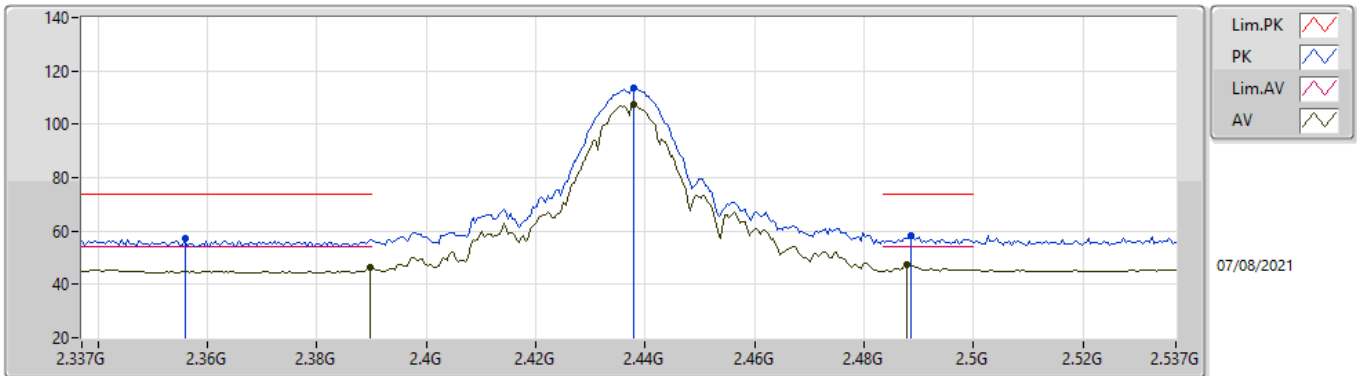


EUT\_Z\_2TX  
Setting 23  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	59.37	74.00	-14.63	27.56	3	Vertical	139	1.57	-	28.32	3.49	-
AV	2.3866G	48.67	54.00	-5.33	16.85	3	Vertical	139	1.57	-	28.33	3.49	-
PK	2.4378G	118.08	Inf	-Inf	86.16	3	Vertical	139	1.57	-	28.38	3.54	-
AV	2.4378G	114.13	Inf	-Inf	82.21	3	Vertical	139	1.57	-	28.38	3.54	-
PK	2.4862G	60.05	74.00	-13.95	27.84	3	Vertical	139	1.57	-	28.62	3.59	-
AV	2.4878G	50.66	54.00	-3.34	18.44	3	Vertical	139	1.57	-	28.63	3.59	-

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

### 2437MHz\_TX

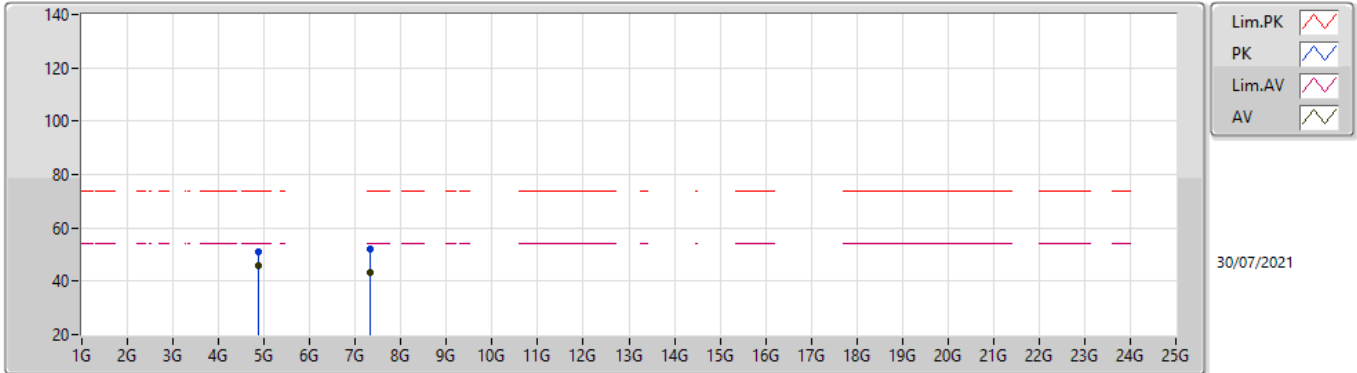


EUT\_Z\_2TX  
Setting 23  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3558G	57.06	74.00	-16.94	25.21	3	Horizontal	176	2.38	-	28.39	3.46	-
AV	2.3898G	46.23	54.00	-7.77	14.42	3	Horizontal	176	2.38	-	28.32	3.49	-
PK	2.4378G	113.61	Inf	-Inf	81.69	3	Horizontal	176	2.38	-	28.38	3.54	-
AV	2.4378G	107.37	Inf	-Inf	75.45	3	Horizontal	176	2.38	-	28.38	3.54	-
PK	2.4886G	58.25	74.00	-15.75	26.03	3	Horizontal	176	2.38	-	28.63	3.59	-
AV	2.4878G	47.21	54.00	-6.79	14.99	3	Horizontal	176	2.38	-	28.63	3.59	-

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

### 2437MHz\_TX

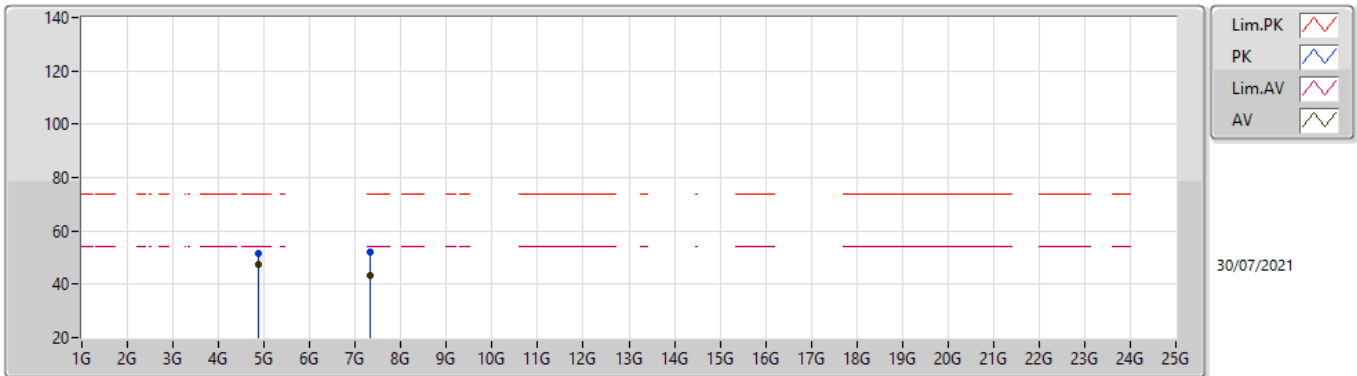


EUT\_Z\_2TX  
Setting 23  
02-A-K-3

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	4.87394G	51.05	74.00	-22.95	45.61	3	Vertical	176	1.86	-	32.95	4.70	32.21
AV	4.87397G	46.08	54.00	-7.92	40.64	3	Vertical	176	1.86	-	32.95	4.70	32.21
PK	7.31112G	51.97	74.00	-22.03	42.61	3	Vertical	257	1.14	-	36.42	5.76	32.82
AV	7.31175G	43.53	54.00	-10.47	34.17	3	Vertical	257	1.14	-	36.42	5.76	32.82

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

### 2437MHz\_TX

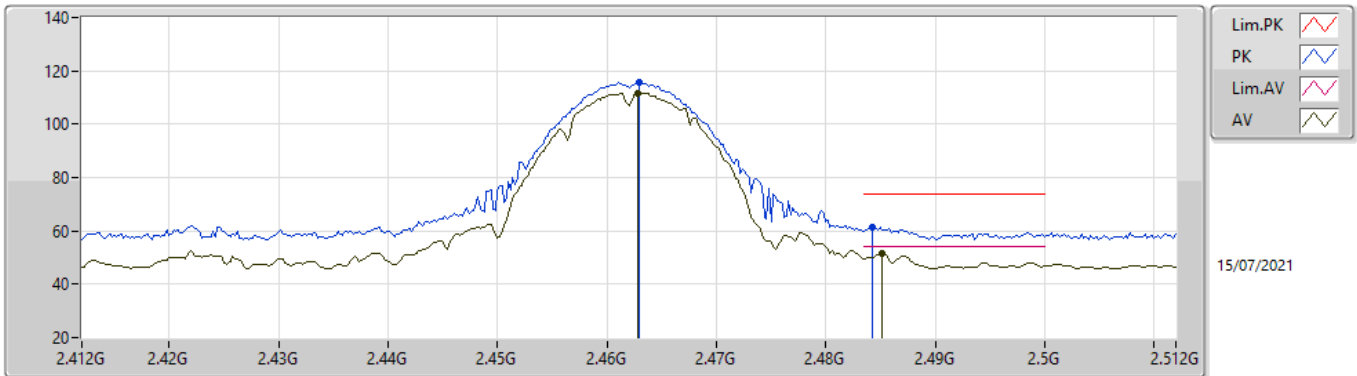


EUT\_Z\_2TX  
Setting 23  
02-A-K-3

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	4.87396G	51.68	74.00	-22.32	46.24	3	Horizontal	160	1.92	-	32.95	4.70	32.21
AV	4.87398G	47.64	54.00	-6.36	42.20	3	Horizontal	160	1.92	-	32.95	4.70	32.21
PK	7.31154G	51.93	74.00	-22.07	42.57	3	Horizontal	239	1.75	-	36.42	5.76	32.82
AV	7.31172G	43.32	54.00	-10.68	33.96	3	Horizontal	239	1.75	-	36.42	5.76	32.82

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

### 2462MHz\_TX

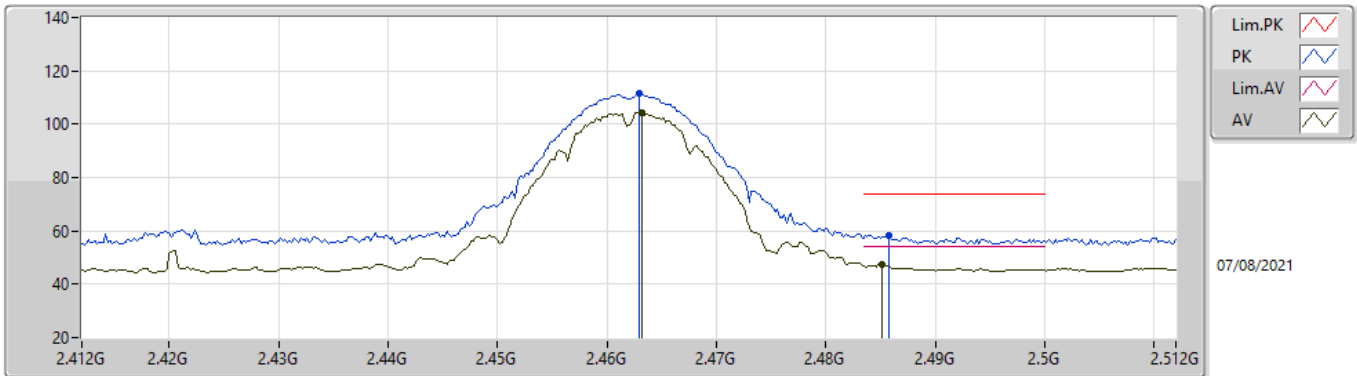


EUT\_Z\_2TX  
Setting 21.5  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	115.84	Inf	-Inf	83.80	3	Vertical	358	1.40	-	28.48	3.56	-
AV	2.4628G	111.80	Inf	-Inf	79.76	3	Vertical	358	1.40	-	28.48	3.56	-
PK	2.4842G	61.52	74.00	-12.48	29.33	3	Vertical	358	1.40	-	28.61	3.58	-
AV	2.4852G	51.72	54.00	-2.28	19.52	3	Vertical	358	1.40	-	28.61	3.59	-

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

### 2462MHz\_TX

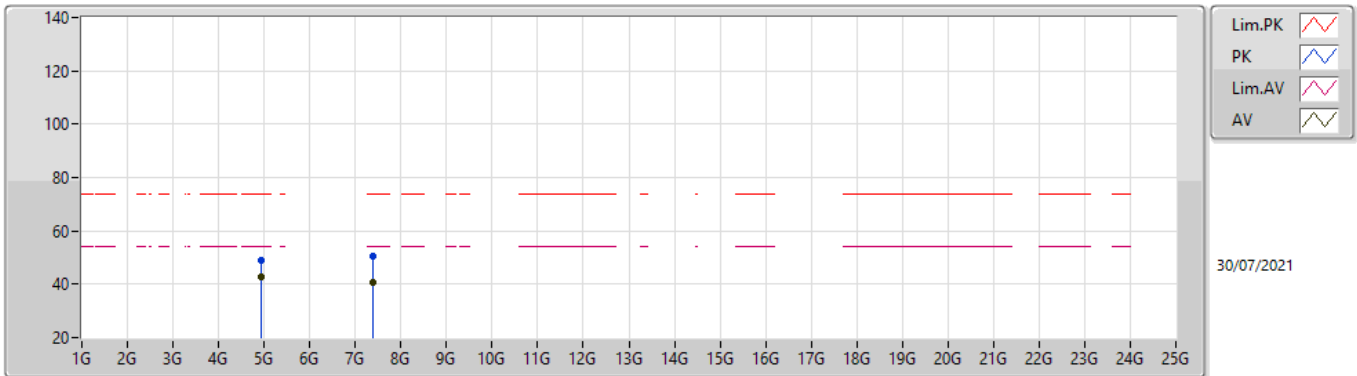


EUT\_Z\_2TX  
Setting 21.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.463G	111.36	Inf	-Inf	79.32	3	Horizontal	9	2.18	-	28.48	3.56	-
AV	2.4632G	104.56	Inf	-Inf	72.52	3	Horizontal	9	2.18	-	28.48	3.56	-
PK	2.4858G	58.49	74.00	-15.51	26.29	3	Horizontal	9	2.18	-	28.61	3.59	-
AV	2.4852G	47.40	54.00	-6.60	15.20	3	Horizontal	9	2.18	-	28.61	3.59	-

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

### 2462MHz\_TX

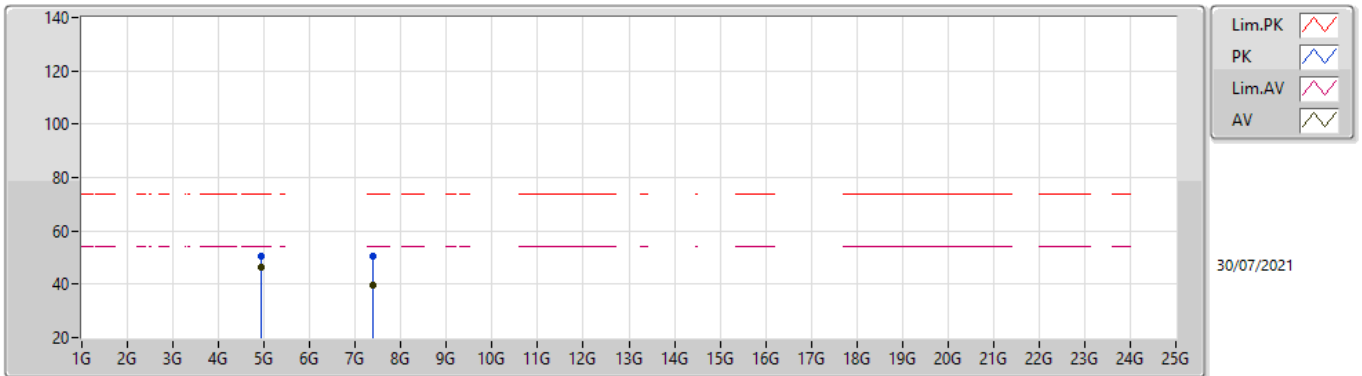


EUT\_Z\_2TX  
Setting 21.5  
02-A-K-3

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	4.92402G	48.76	74.00	-25.24	43.11	3	Vertical	172	1.80	-	33.14	4.70	32.19
AV	4.92402G	42.92	54.00	-11.08	37.27	3	Vertical	172	1.80	-	33.14	4.70	32.19
PK	7.38699G	50.65	74.00	-23.35	41.24	3	Vertical	251	1.12	-	36.57	5.79	32.95
AV	7.38681G	40.46	54.00	-13.54	31.05	3	Vertical	251	1.12	-	36.57	5.79	32.95

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

### 2462MHz\_TX



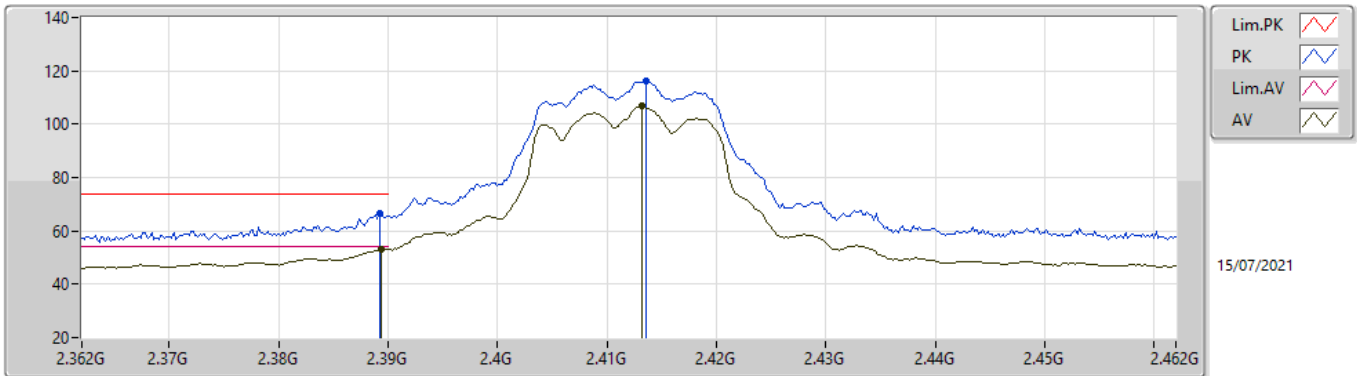
EUT\_Z\_2TX  
Setting 21.5  
02-A-K-3

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	4.92397G	50.70	74.00	-23.30	45.05	3	Horizontal	150	1.97	-	33.14	4.70	32.19
AV	4.924G	46.40	54.00	-7.60	40.75	3	Horizontal	150	1.97	-	33.14	4.70	32.19
PK	7.38501G	50.55	74.00	-23.45	41.14	3	Horizontal	244	1.78	-	36.57	5.79	32.95
AV	7.38672G	39.44	54.00	-14.56	30.03	3	Horizontal	244	1.78	-	36.57	5.79	32.95



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

### 2412MHz\_TX

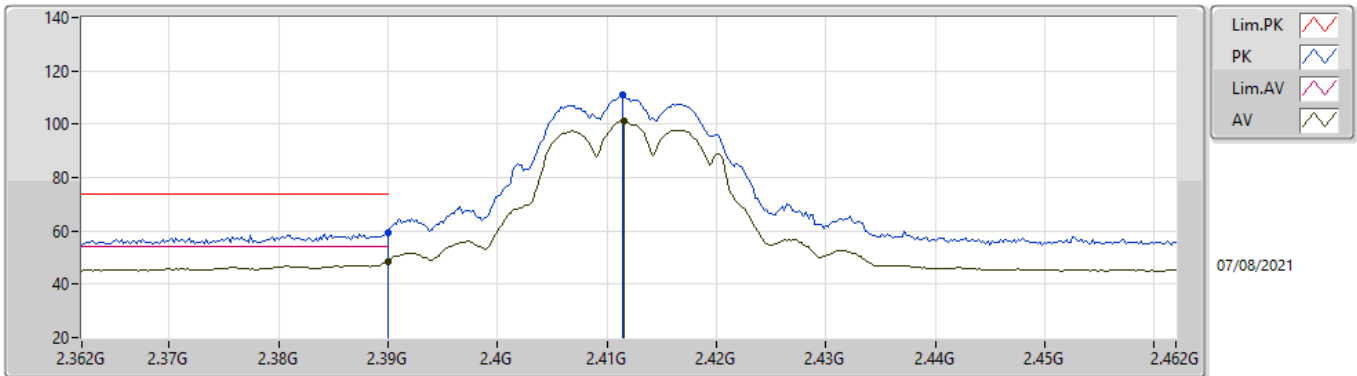


EUT\_Z\_2TX  
Setting 18.5  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	66.41	74.00	-7.59	34.60	3	Vertical	170	1.80	-	28.32	3.49	-
AV	2.3894G	52.95	54.00	-1.05	21.14	3	Vertical	170	1.80	-	28.32	3.49	-
PK	2.4136G	116.00	Inf	-Inf	84.16	3	Vertical	170	1.80	-	28.33	3.51	-
AV	2.4132G	106.72	Inf	-Inf	74.88	3	Vertical	170	1.80	-	28.33	3.51	-

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

### 2412MHz\_TX

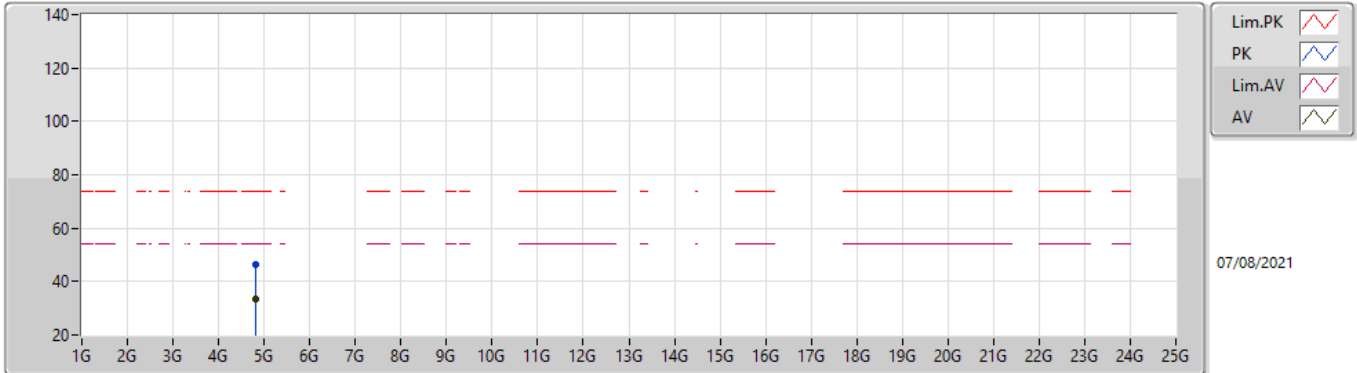


EUT\_Z\_2TX  
Setting 18.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	59.46	74.00	-14.54	27.65	3	Horizontal	178	2.50	-	28.32	3.49	-
AV	2.39G	48.69	54.00	-5.31	16.88	3	Horizontal	178	2.50	-	28.32	3.49	-
PK	2.4114G	110.79	Inf	-Inf	78.96	3	Horizontal	178	2.50	-	28.32	3.51	-
AV	2.4116G	101.05	Inf	-Inf	69.22	3	Horizontal	178	2.50	-	28.32	3.51	-

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

### 2412MHz\_TX

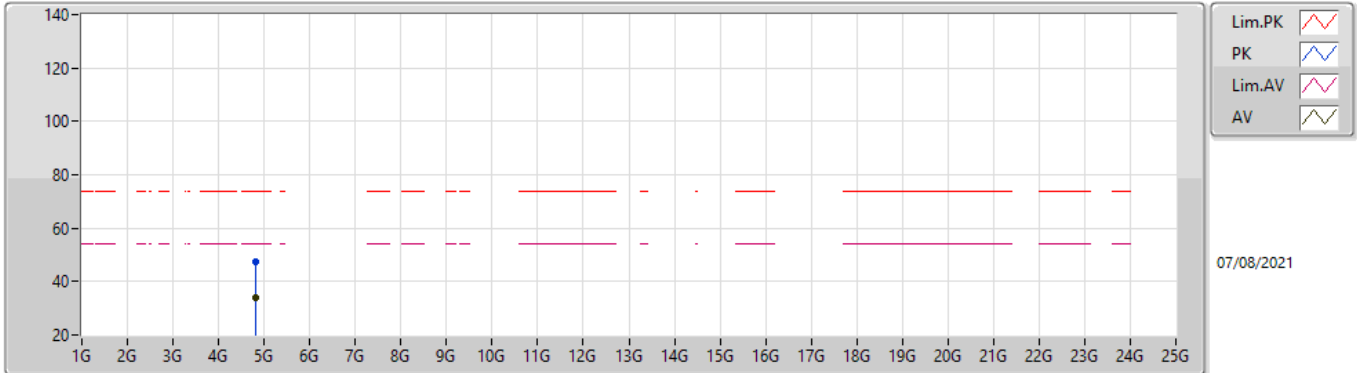


EUT\_Z\_2TX  
Setting 18.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82598G	46.43	74.00	-27.57	42.21	3	Vertical	47	1.50	-	33.40	6.24	35.42
AV	4.82604G	33.64	54.00	-20.36	29.42	3	Vertical	47	1.50	-	33.40	6.24	35.42

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

### 2412MHz\_TX

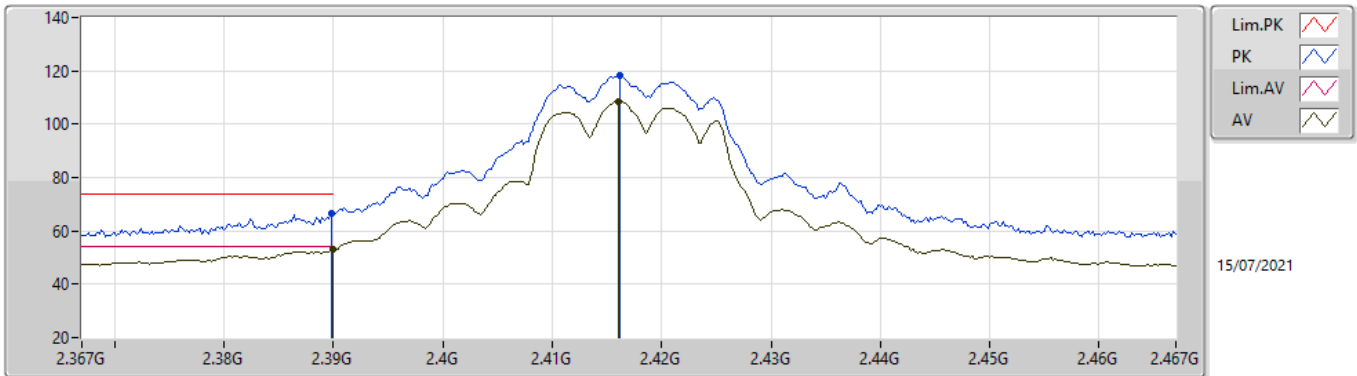


EUT\_Z\_2TX  
Setting 18.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82706G	47.52	74.00	-26.48	43.30	3	Horizontal	196	1.95	-	33.40	6.24	35.42
AV	4.818G	34.07	54.00	-19.93	29.86	3	Horizontal	196	1.95	-	33.40	6.23	35.42

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

### 2417MHz\_TX

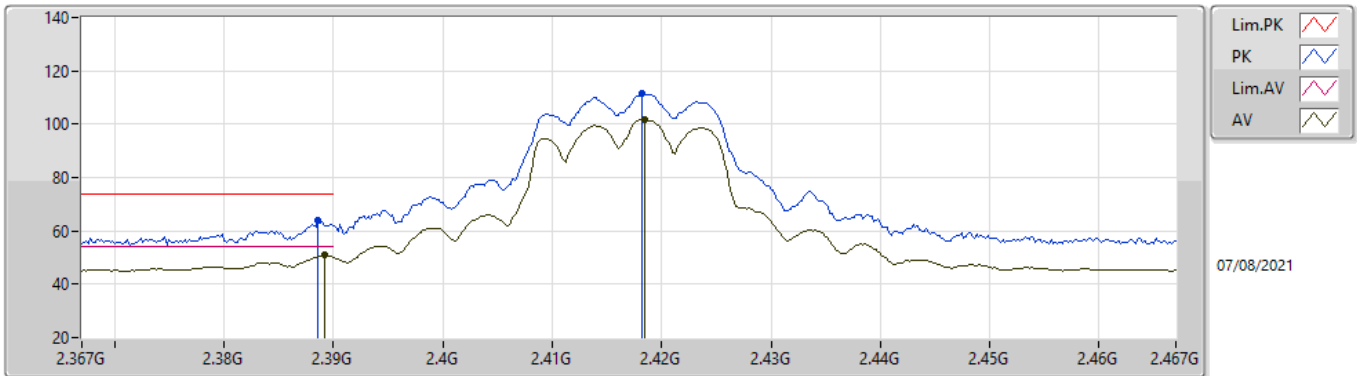


EUT\_Z\_2TX  
Setting 20  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	66.66	74.00	-7.34	34.85	3	Vertical	62	2.38	-	28.32	3.49	-
AV	2.39G	52.88	54.00	-1.12	21.07	3	Vertical	62	2.38	-	28.32	3.49	-
PK	2.4162G	118.16	Inf	-Inf	86.31	3	Vertical	62	2.38	-	28.33	3.52	-
AV	2.416G	108.61	Inf	-Inf	76.76	3	Vertical	62	2.38	-	28.33	3.52	-

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

### 2417MHz\_TX

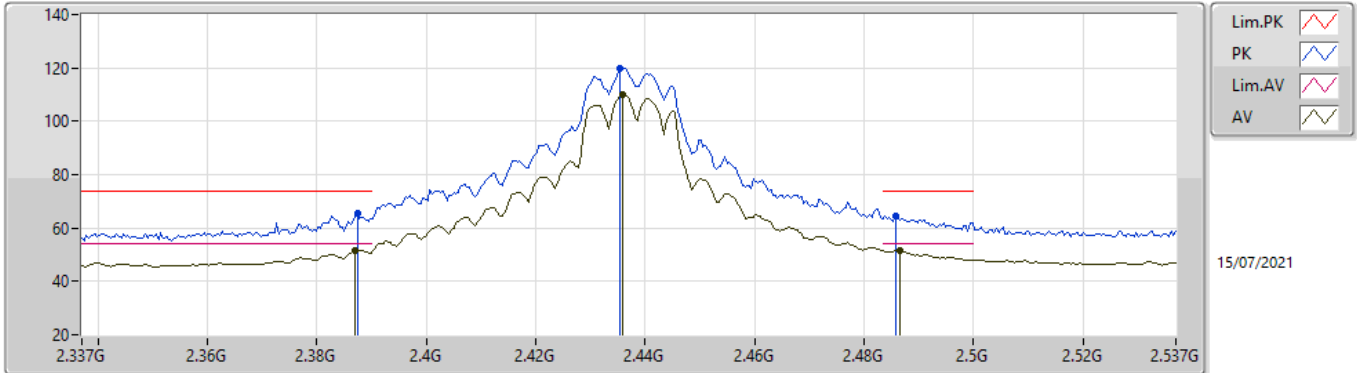


EUT\_Z\_2TX  
Setting 20  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3886G	63.76	74.00	-10.24	31.95	3	Horizontal	0	2.56	-	28.32	3.49	-
AV	2.3892G	50.80	54.00	-3.20	18.99	3	Horizontal	0	2.56	-	28.32	3.49	-
PK	2.4182G	111.39	Inf	-Inf	79.53	3	Horizontal	0	2.56	-	28.34	3.52	-
AV	2.4184G	101.90	Inf	-Inf	70.04	3	Horizontal	0	2.56	-	28.34	3.52	-

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

### 2437MHz\_TX

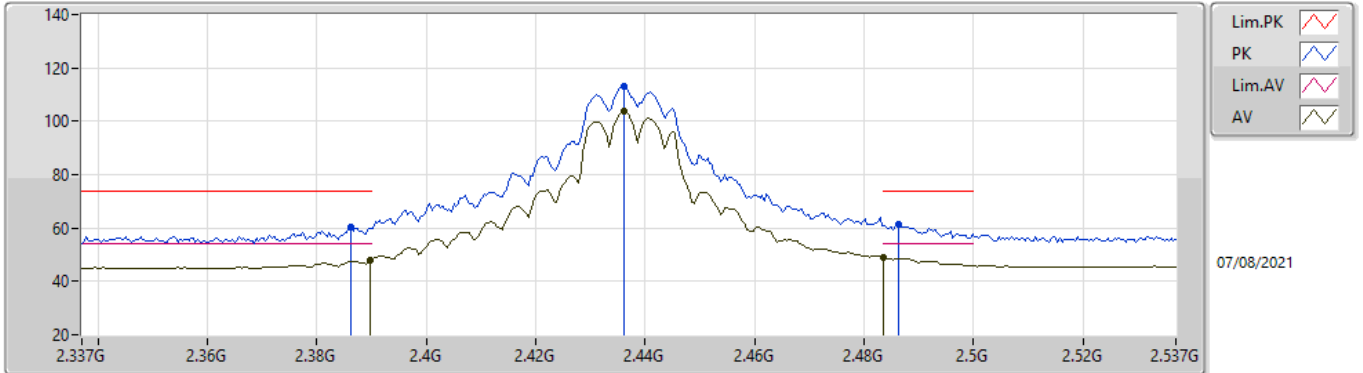


EUT\_Z\_2TX  
Setting 21.5  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3874G	65.70	74.00	-8.30	33.88	3	Vertical	60	2.21	-	28.33	3.49	-
AV	2.387G	51.67	54.00	-2.33	19.85	3	Vertical	60	2.21	-	28.33	3.49	-
PK	2.4354G	119.61	Inf	-Inf	87.70	3	Vertical	60	2.21	-	28.37	3.54	-
AV	2.4358G	110.15	Inf	-Inf	78.24	3	Vertical	60	2.21	-	28.37	3.54	-
PK	2.4858G	64.53	74.00	-9.47	32.33	3	Vertical	60	2.21	-	28.61	3.59	-
AV	2.4866G	51.44	54.00	-2.56	19.23	3	Vertical	60	2.21	-	28.62	3.59	-

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

### 2437MHz\_TX



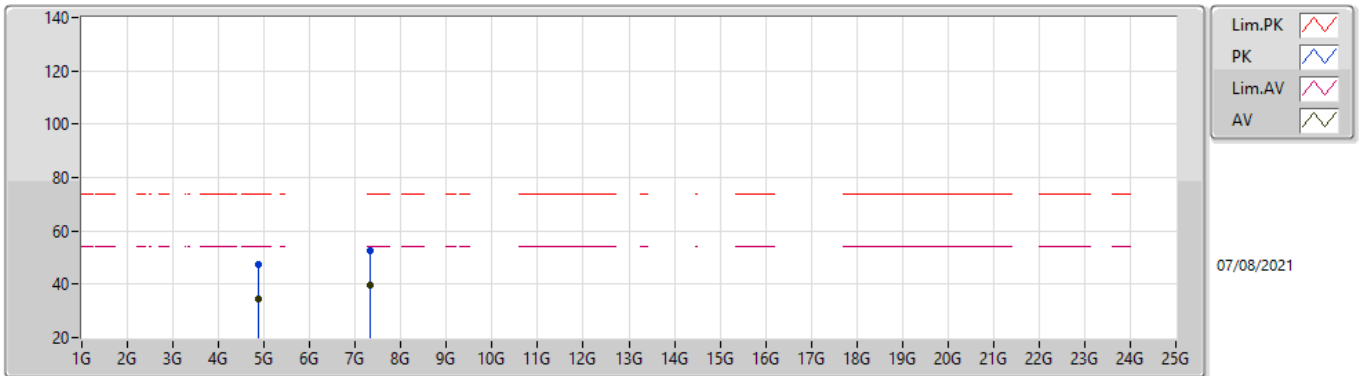
EUT\_Z\_2TX  
Setting 21.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	60.27	74.00	-13.73	28.45	3	Horizontal	358	2.47	-	28.33	3.49	-
AV	2.3898G	47.79	54.00	-6.21	15.98	3	Horizontal	358	2.47	-	28.32	3.49	-
PK	2.4362G	113.26	Inf	-Inf	81.35	3	Horizontal	358	2.47	-	28.37	3.54	-
AV	2.4362G	103.75	Inf	-Inf	71.84	3	Horizontal	358	2.47	-	28.37	3.54	-
PK	2.4862G	61.45	74.00	-12.55	29.24	3	Horizontal	358	2.47	-	28.62	3.59	-
AV	2.4835G	49.01	54.00	-4.99	16.83	3	Horizontal	358	2.47	-	28.60	3.58	-



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

### 2437MHz\_TX

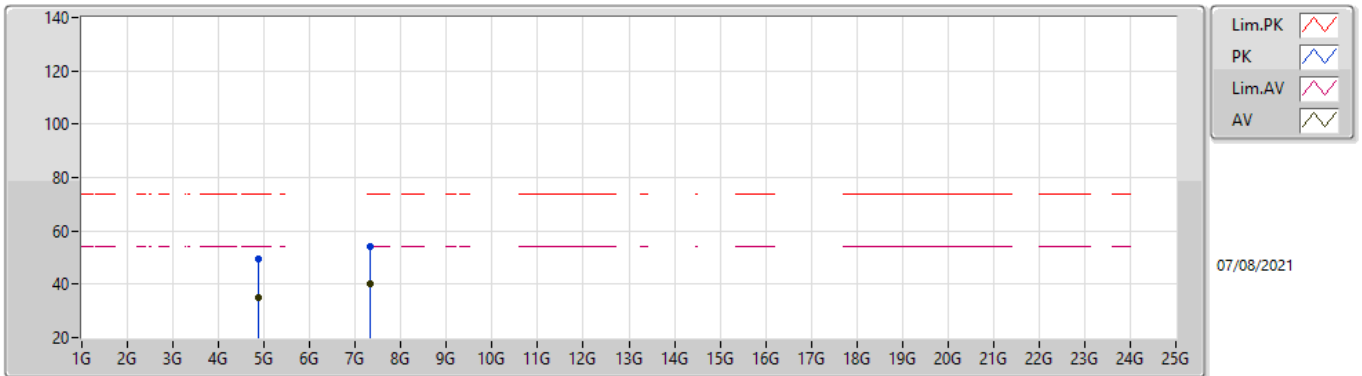


EUT\_Z\_2TX  
Setting 21.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8755G	47.25	74.00	-26.75	42.83	3	Vertical	157	1.79	-	33.50	6.31	35.39
AV	4.87616G	34.23	54.00	-19.77	29.81	3	Vertical	157	1.79	-	33.50	6.31	35.39
PK	7.32018G	52.37	74.00	-21.63	43.06	3	Vertical	152	2.82	-	37.00	7.88	35.57
AV	7.3152G	39.40	54.00	-14.60	30.10	3	Vertical	152	2.82	-	37.00	7.87	35.57

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

### 2437MHz\_TX

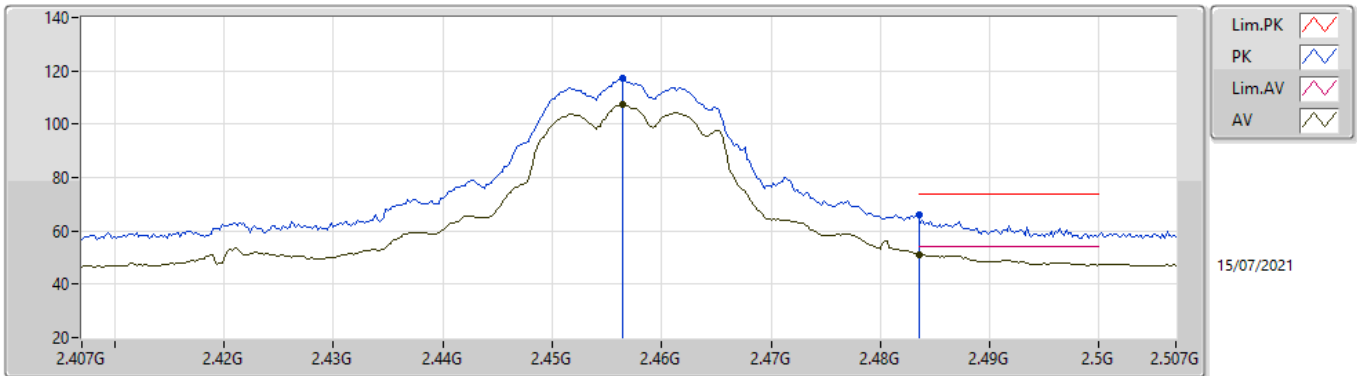


EUT\_Z\_2TX  
Setting 21.5  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87166G	49.46	74.00	-24.54	45.06	3	Horizontal	193	1.80	-	33.49	6.31	35.40
AV	4.87658G	35.00	54.00	-19.00	30.57	3	Horizontal	193	1.80	-	33.51	6.31	35.39
PK	7.31508G	53.95	74.00	-20.05	44.65	3	Horizontal	287	1.81	-	37.00	7.87	35.57
AV	7.31514G	40.42	54.00	-13.58	31.12	3	Horizontal	287	1.81	-	37.00	7.87	35.57

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

### 2457MHz\_TX

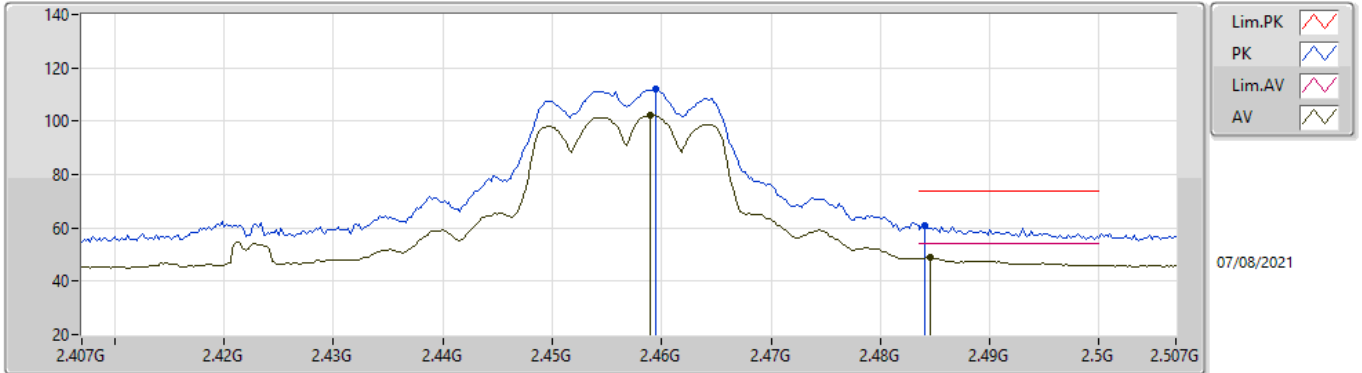


EUT\_Z\_2TX  
Setting 19  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4564G	117.07	Inf	-Inf	85.07	3	Vertical	131	1.74	-	28.44	3.56	-
AV	2.4564G	107.39	Inf	-Inf	75.39	3	Vertical	131	1.74	-	28.44	3.56	-
PK	2.4835G	66.04	74.00	-7.96	33.86	3	Vertical	131	1.74	-	28.60	3.58	-
AV	2.4835G	51.20	54.00	-2.80	19.02	3	Vertical	131	1.74	-	28.60	3.58	-

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

### 2457MHz\_TX

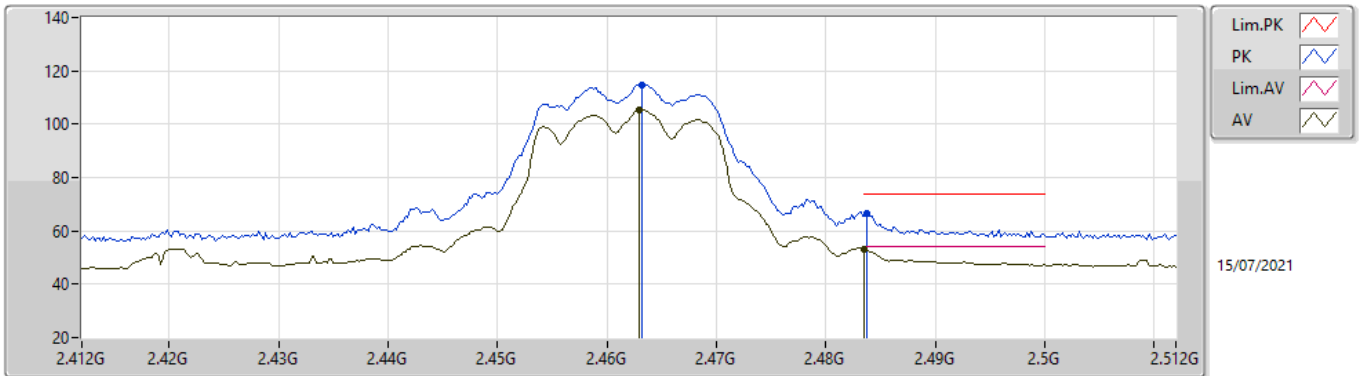


EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4594G	111.83	Inf	-Inf	79.81	3	Horizontal	177	2.14	-	28.46	3.56	-
AV	2.459G	102.15	Inf	-Inf	70.14	3	Horizontal	177	2.14	-	28.45	3.56	-
PK	2.484G	61.12	74.00	-12.88	28.94	3	Horizontal	177	2.14	-	28.60	3.58	-
AV	2.4846G	48.78	54.00	-5.22	16.59	3	Horizontal	177	2.14	-	28.61	3.58	-

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

### 2462MHz\_TX

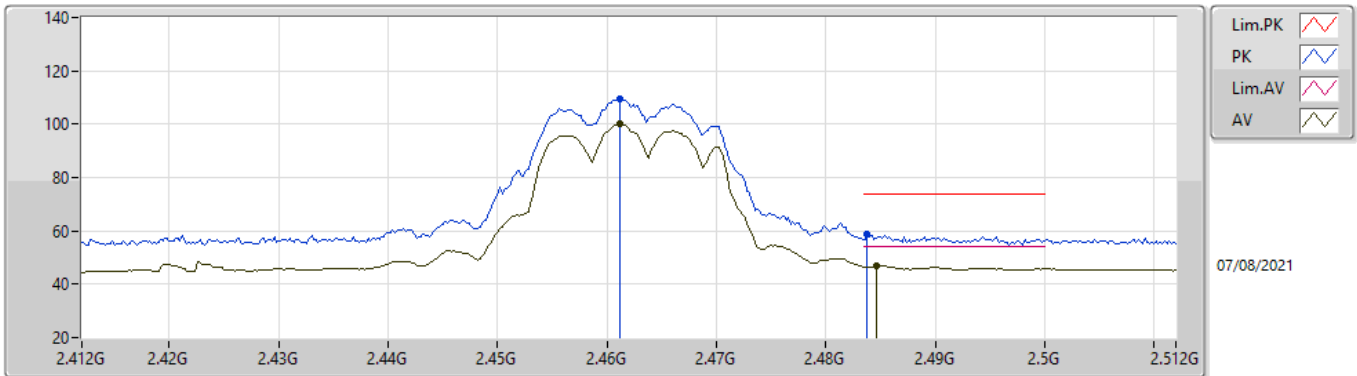


EUT\_Z2TX  
Setting 17  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4632G	114.76	Inf	-Inf	82.72	3	Vertical	167	1.76	-	28.48	3.56	-
AV	2.463G	105.45	Inf	-Inf	73.41	3	Vertical	167	1.76	-	28.48	3.56	-
PK	2.4838G	66.57	74.00	-7.43	34.39	3	Vertical	167	1.76	-	28.60	3.58	-
AV	2.4835G	52.86	54.00	-1.14	20.68	3	Vertical	167	1.76	-	28.60	3.58	-

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

### 2462MHz\_TX

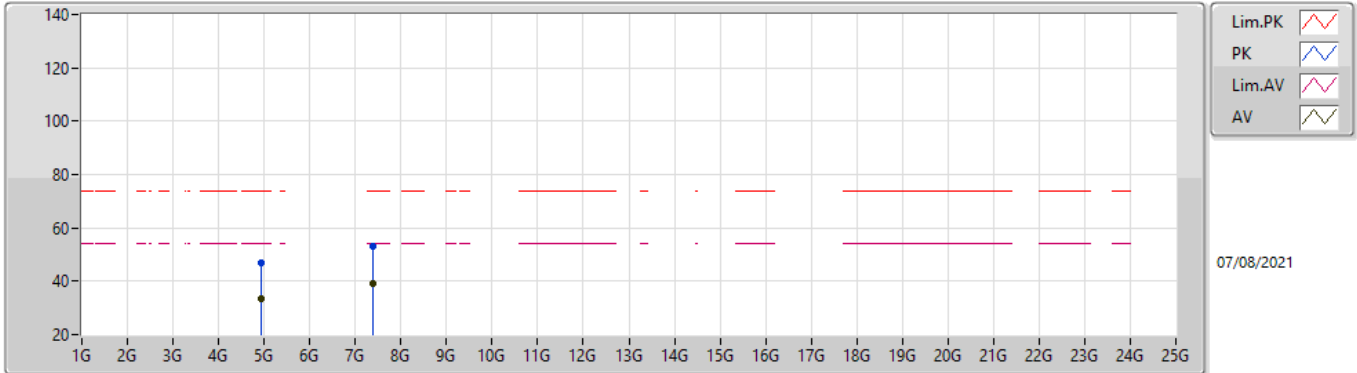


EUT\_Z\_2TX  
Setting 17  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4612G	109.72	Inf	-Inf	77.69	3	Horizontal	0	2.18	-	28.47	3.56	-
AV	2.4612G	100.09	Inf	-Inf	68.06	3	Horizontal	0	2.18	-	28.47	3.56	-
PK	2.4838G	58.84	74.00	-15.16	26.66	3	Horizontal	0	2.18	-	28.60	3.58	-
AV	2.4846G	46.94	54.00	-7.06	14.75	3	Horizontal	0	2.18	-	28.61	3.58	-

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

### 2462MHz\_TX

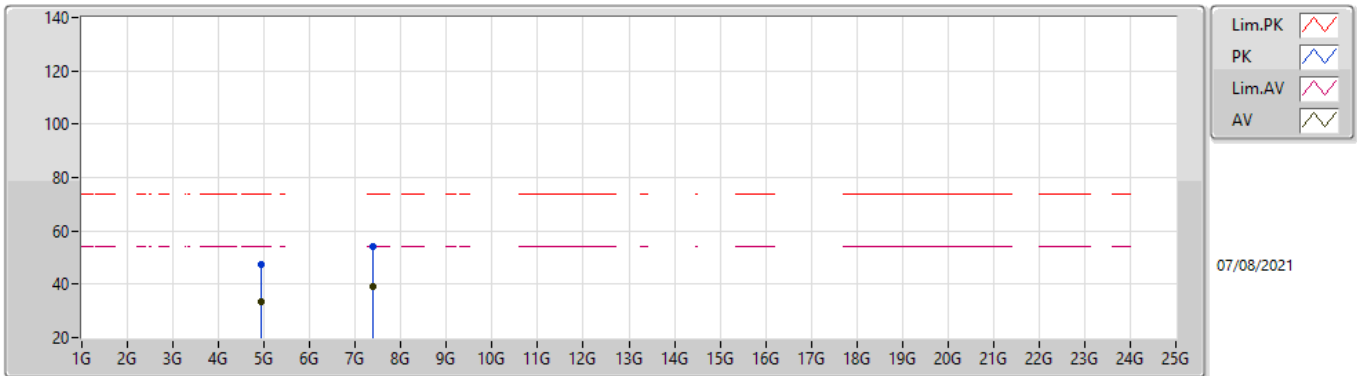


EUT\_Z\_2TX  
Setting 17  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.93708G	47.08	74.00	-26.92	42.36	3	Vertical	167	1.80	-	33.67	6.41	35.36
AV	4.93036G	33.25	54.00	-20.75	28.56	3	Vertical	167	1.80	-	33.66	6.40	35.37
PK	7.38576G	53.18	74.00	-20.82	43.72	3	Vertical	304	1.00	-	37.07	7.98	35.59
AV	7.3959G	39.03	54.00	-14.97	29.54	3	Vertical	304	1.00	-	37.09	7.99	35.59

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

### 2462MHz\_TX



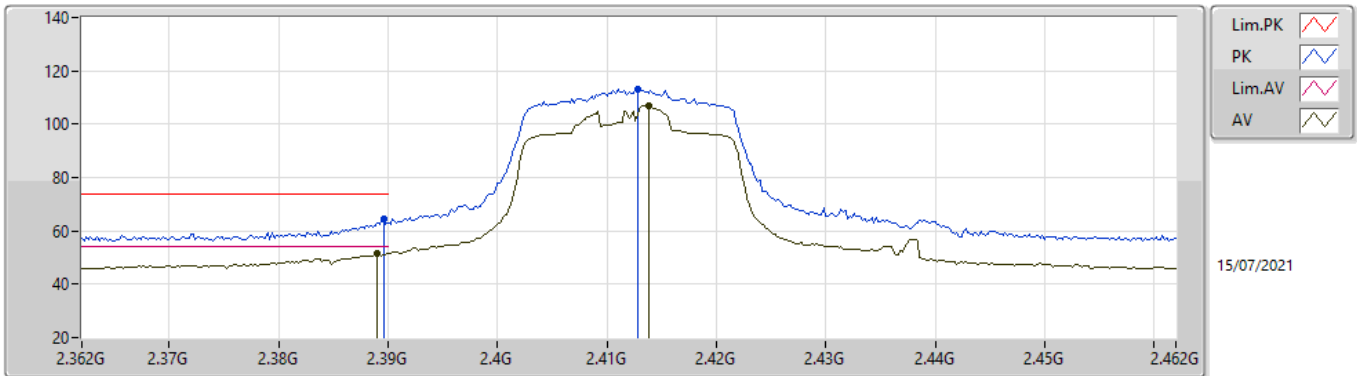
EUT\_Z\_2TX  
Setting 17  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.9312G	47.18	74.00	-26.82	42.49	3	Horizontal	193	1.81	-	33.66	6.40	35.37
AV	4.92772G	33.29	54.00	-20.71	28.61	3	Horizontal	193	1.81	-	33.66	6.39	35.37
PK	7.39164G	53.94	74.00	-20.06	44.46	3	Horizontal	284	1.79	-	37.08	7.99	35.59
AV	7.39608G	39.23	54.00	-14.77	29.74	3	Horizontal	284	1.79	-	37.09	7.99	35.59



### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

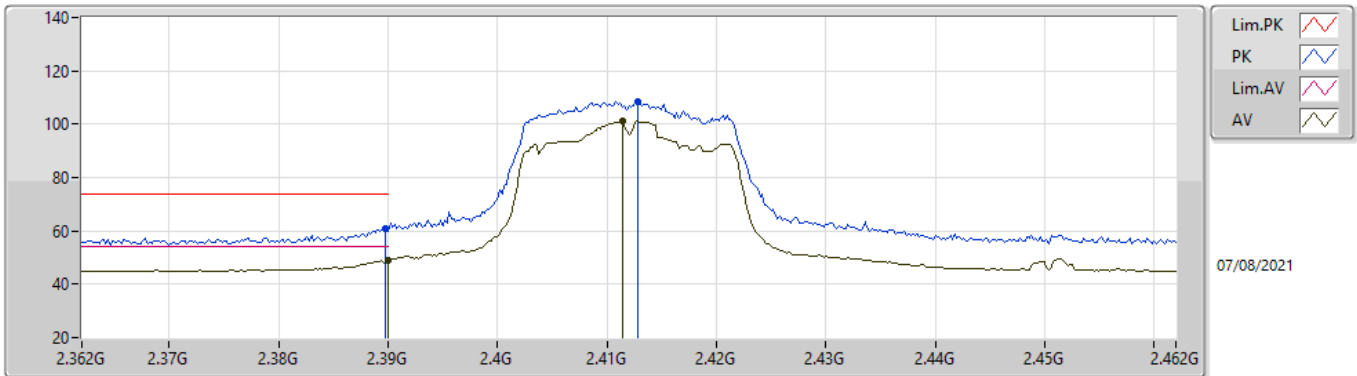


EUT\_Z\_2TX  
Setting 19  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3896G	64.50	74.00	-9.50	32.69	3	Vertical	295	1.80	-	28.32	3.49	-
AV	2.389G	51.47	54.00	-2.53	19.66	3	Vertical	295	1.80	-	28.32	3.49	-
PK	2.4128G	113.13	Inf	-Inf	81.29	3	Vertical	295	1.80	-	28.33	3.51	-
AV	2.4138G	106.91	Inf	-Inf	75.07	3	Vertical	295	1.80	-	28.33	3.51	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2412MHz\_TX

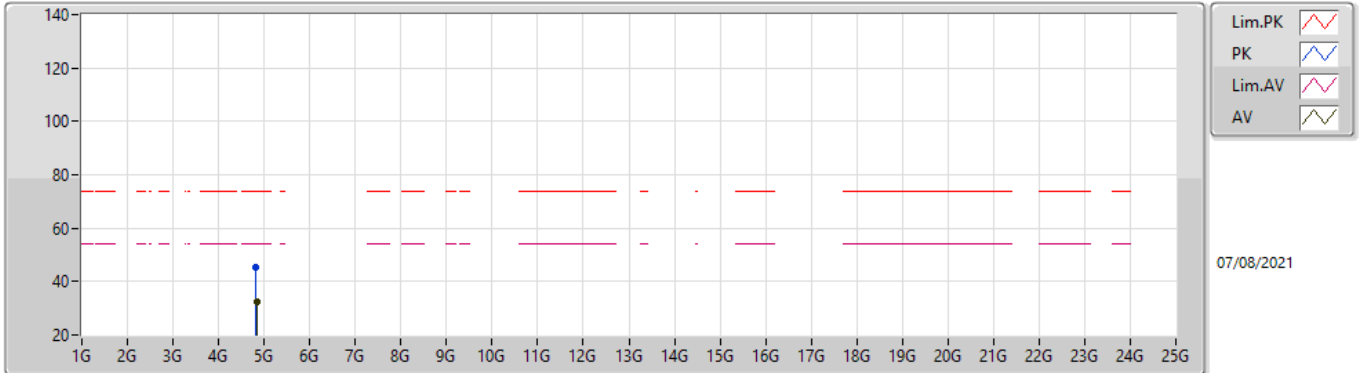


EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	60.82	74.00	-13.18	29.01	3	Horizontal	360	2.22	-	28.32	3.49	-
AV	2.39G	48.97	54.00	-5.03	17.16	3	Horizontal	360	2.22	-	28.32	3.49	-
PK	2.4128G	108.52	Inf	-Inf	76.68	3	Horizontal	360	2.22	-	28.33	3.51	-
AV	2.4114G	101.07	Inf	-Inf	69.24	3	Horizontal	360	2.22	-	28.32	3.51	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

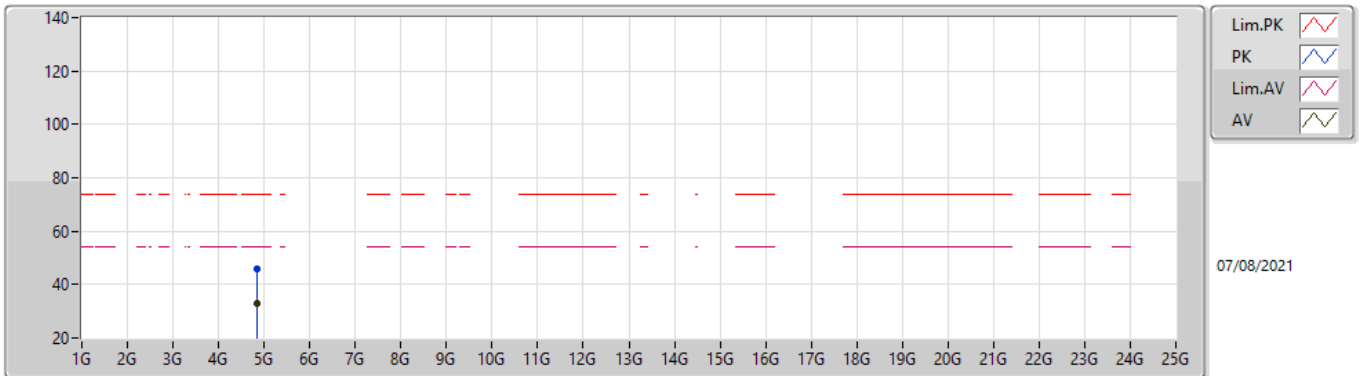


EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82512G	45.46	74.00	-28.54	41.24	3	Vertical	334	1.58	-	33.40	6.24	35.42
AV	4.83384G	32.58	54.00	-21.42	28.35	3	Vertical	334	1.58	-	33.40	6.25	35.42

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2412MHz\_TX

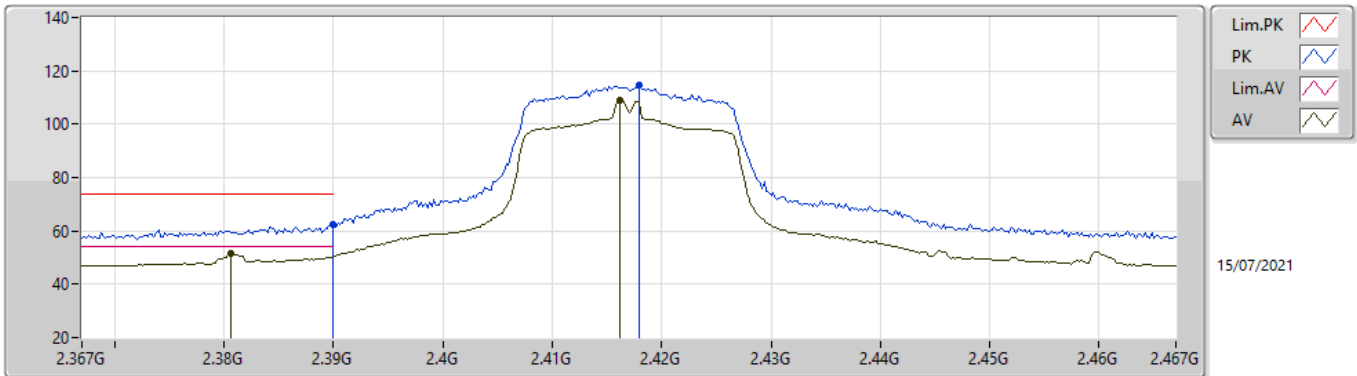


EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83252G	45.88	74.00	-28.12	41.65	3	Horizontal	193	2.63	-	33.40	6.25	35.42
AV	4.83368G	32.71	54.00	-21.29	28.48	3	Horizontal	193	2.63	-	33.40	6.25	35.42

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2417MHz\_TX

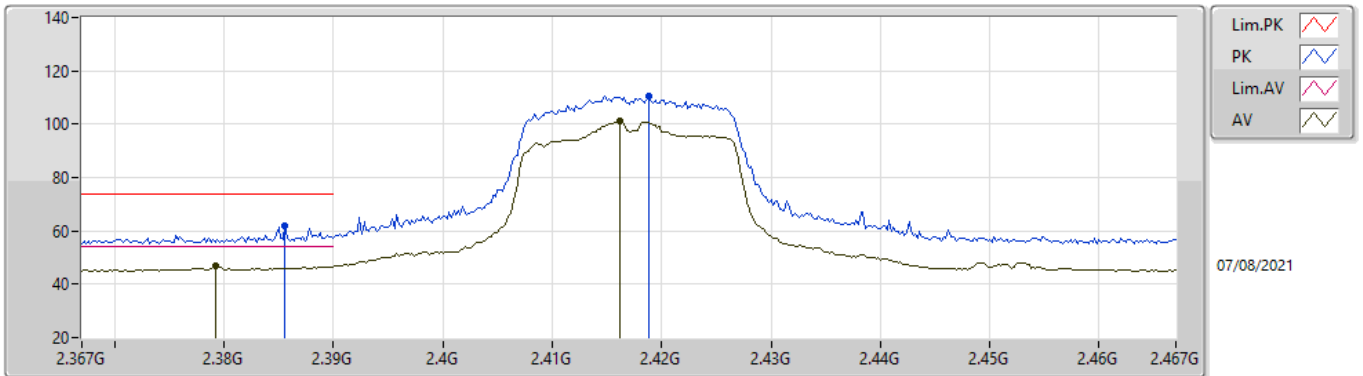


EUT\_Z\_2TX  
Setting 20  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	62.41	74.00	-11.59	30.60	3	Vertical	133	1.80	-	28.32	3.49	-
AV	2.3806G	51.80	54.00	-2.20	19.98	3	Vertical	133	1.80	-	28.34	3.48	-
PK	2.418G	114.41	Inf	-Inf	82.55	3	Vertical	133	1.80	-	28.34	3.52	-
AV	2.4162G	109.02	Inf	-Inf	77.17	3	Vertical	133	1.80	-	28.33	3.52	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2417MHz\_TX

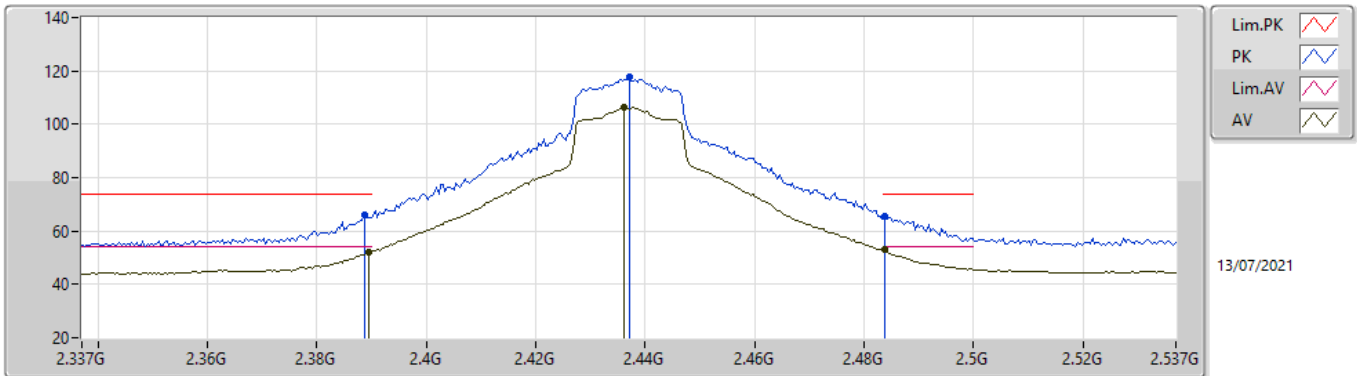


EUT\_Z\_2TX  
Setting 20  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3856G	62.14	74.00	-11.86	30.32	3	Horizontal	0	2.56	-	28.33	3.49	-
AV	2.3792G	46.90	54.00	-7.10	15.08	3	Horizontal	0	2.56	-	28.34	3.48	-
PK	2.4188G	110.57	Inf	-Inf	78.71	3	Horizontal	0	2.56	-	28.34	3.52	-
AV	2.4162G	101.08	Inf	-Inf	69.23	3	Horizontal	0	2.56	-	28.33	3.52	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

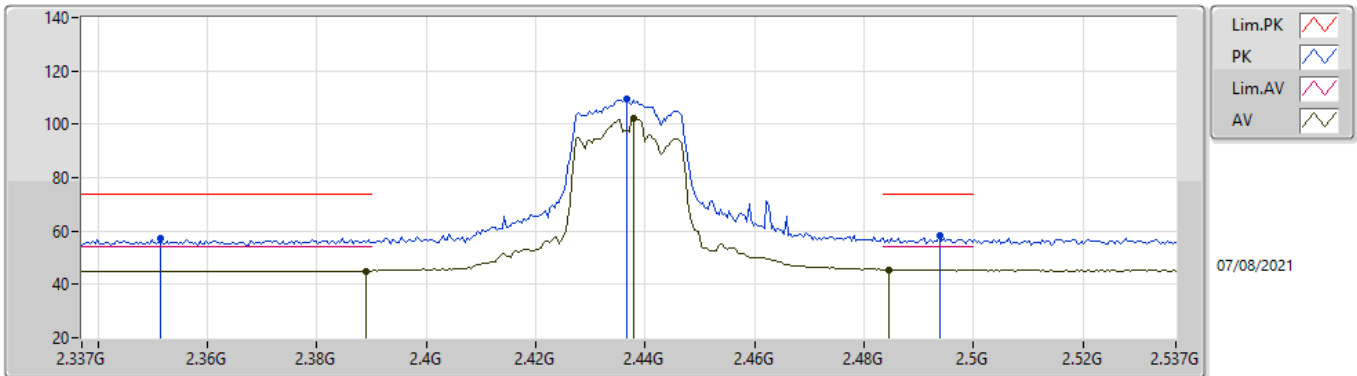


EUT\_Z\_2TX  
Setting 23  
02-A-K-3

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	65.85	74.00	-8.15	35.06	3	Vertical	84.8	1.74	-	28.38	2.41	-
AV	2.3894G	52.05	54.00	-1.95	21.26	3	Vertical	84.8	1.74	-	28.38	2.41	-
PK	2.437G	117.66	Inf	-Inf	86.84	3	Vertical	84.8	1.74	-	28.40	2.42	-
AV	2.4362G	106.41	Inf	-Inf	75.59	3	Vertical	84.8	1.74	-	28.40	2.42	-
PK	2.4838G	65.72	74.00	-8.28	34.74	3	Vertical	84.8	1.74	-	28.54	2.44	-
AV	2.4838G	52.90	54.00	-1.10	21.92	3	Vertical	84.8	1.74	-	28.54	2.44	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX



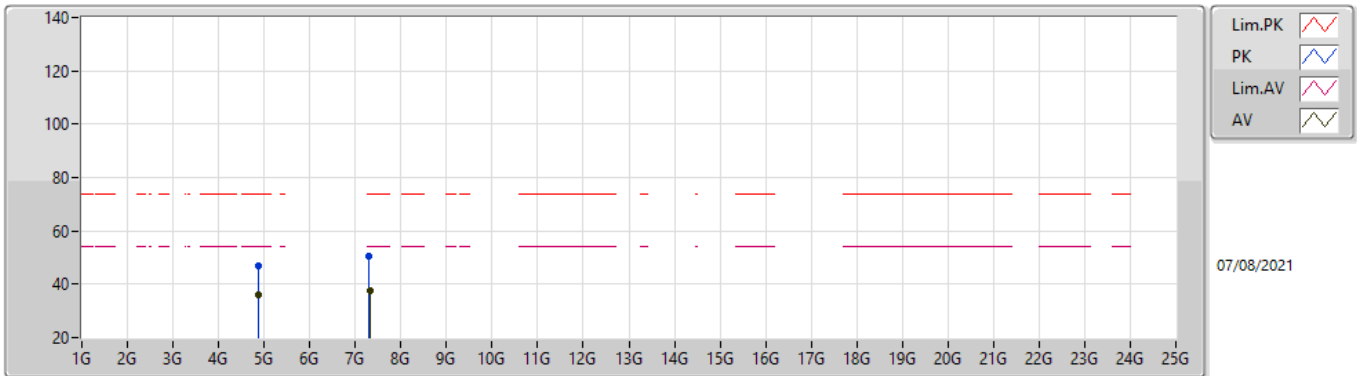
EUT\_Z\_2TX  
Setting 23  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3514G	57.34	74.00	-16.66	25.49	3	Horizontal	10	2.21	-	28.40	3.45	-
AV	2.389G	45.07	54.00	-8.93	13.26	3	Horizontal	10	2.21	-	28.32	3.49	-
PK	2.4366G	109.61	Inf	-Inf	77.70	3	Horizontal	10	2.21	-	28.37	3.54	-
AV	2.4378G	102.23	Inf	-Inf	70.31	3	Horizontal	10	2.21	-	28.38	3.54	-
PK	2.4938G	58.39	74.00	-15.61	26.14	3	Horizontal	10	2.21	-	28.66	3.59	-
AV	2.4846G	45.53	54.00	-8.47	13.34	3	Horizontal	10	2.21	-	28.61	3.58	-



802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX

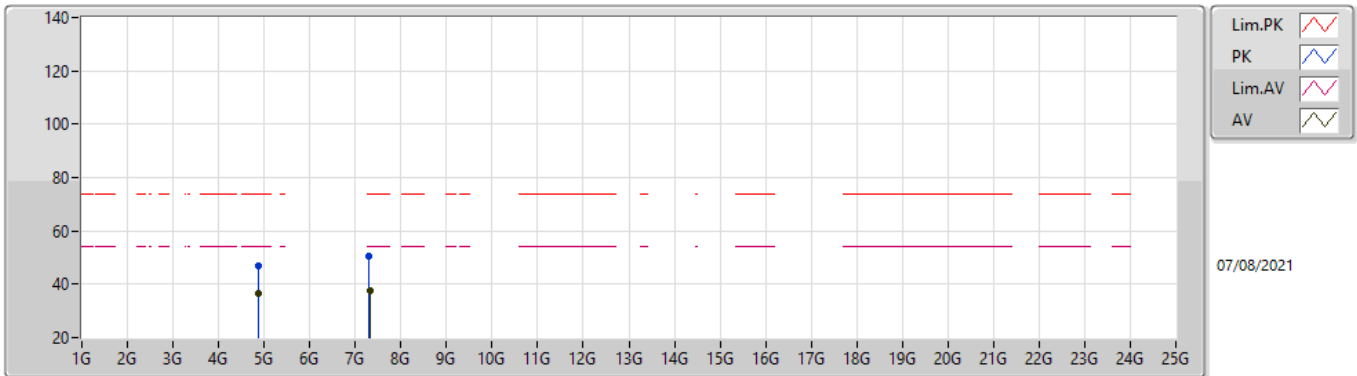


EUT\_Z\_2TX  
Setting 23  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87456G	46.96	74.00	-27.04	42.55	3	Vertical	226	1.81	-	33.50	6.31	35.40
AV	4.87408G	36.28	54.00	-17.72	31.87	3	Vertical	226	1.81	-	33.50	6.31	35.40
PK	7.30164G	50.28	74.00	-23.72	41.00	3	Vertical	345	2.28	-	37.00	7.85	35.57
AV	7.3192G	37.83	54.00	-16.17	28.52	3	Vertical	345	2.28	-	37.00	7.88	35.57

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

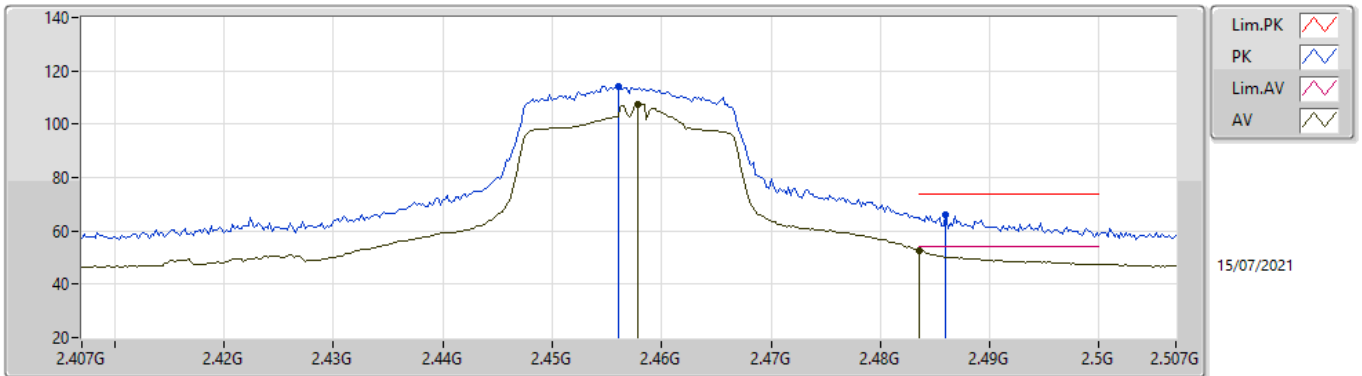


EUT\_Z\_2TX  
Setting 23  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87136G	47.02	74.00	-26.98	42.62	3	Horizontal	172	1.80	-	33.49	6.31	35.40
AV	4.87384G	36.62	54.00	-17.38	32.21	3	Horizontal	172	1.80	-	33.50	6.31	35.40
PK	7.30296G	50.37	74.00	-23.63	41.09	3	Horizontal	60	1.91	-	37.00	7.85	35.57
AV	7.31992G	37.81	54.00	-16.19	28.50	3	Horizontal	60	1.91	-	37.00	7.88	35.57

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX

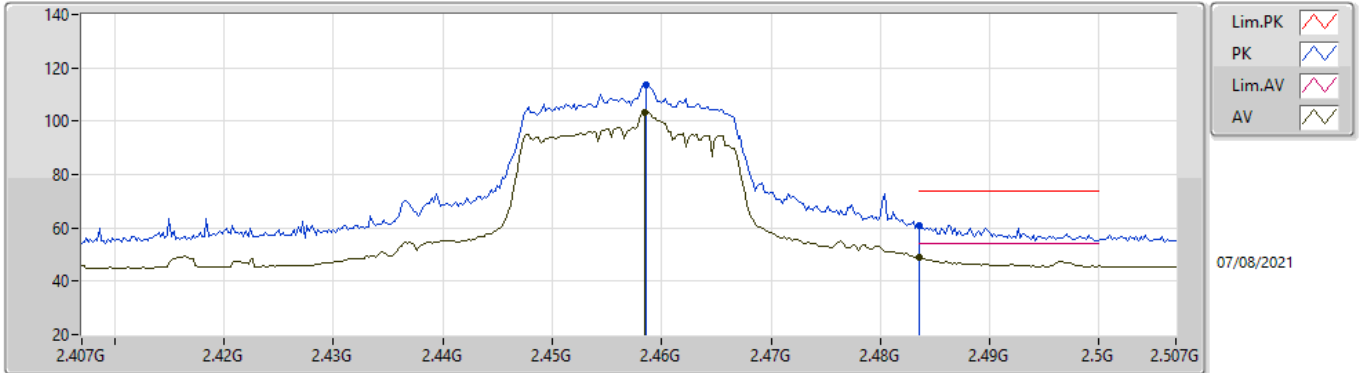


EUT\_Z\_2TX  
Setting 20  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.456G	114.29	Inf	-Inf	82.29	3	Vertical	165.8	1.99	-	28.44	3.56	-
AV	2.4578G	107.53	Inf	-Inf	75.52	3	Vertical	165.8	1.99	-	28.45	3.56	-
PK	2.486G	66.13	74.00	-7.87	33.92	3	Vertical	165.8	1.99	-	28.62	3.59	-
AV	2.4835G	52.83	54.00	-1.17	20.65	3	Vertical	165.8	1.99	-	28.60	3.58	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2457MHz\_TX

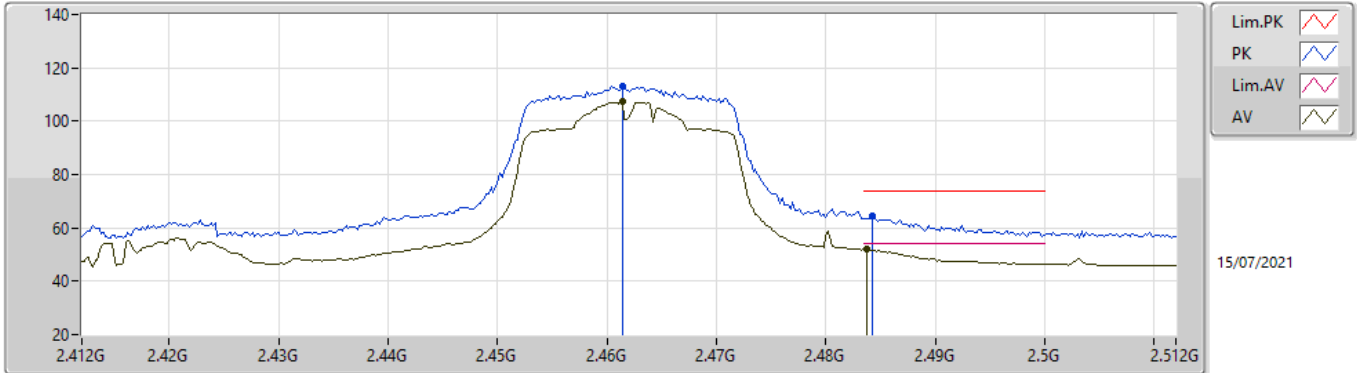


EUT\_Z\_2TX  
Setting 20  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4586G	113.80	Inf	-Inf	81.79	3	Horizontal	4	2.41	-	28.45	3.56	-
AV	2.4584G	103.48	Inf	-Inf	71.47	3	Horizontal	4	2.41	-	28.45	3.56	-
PK	2.4835G	60.98	74.00	-13.02	28.80	3	Horizontal	4	2.41	-	28.60	3.58	-
AV	2.4835G	48.84	54.00	-5.16	16.66	3	Horizontal	4	2.41	-	28.60	3.58	-

802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

2462MHz\_TX

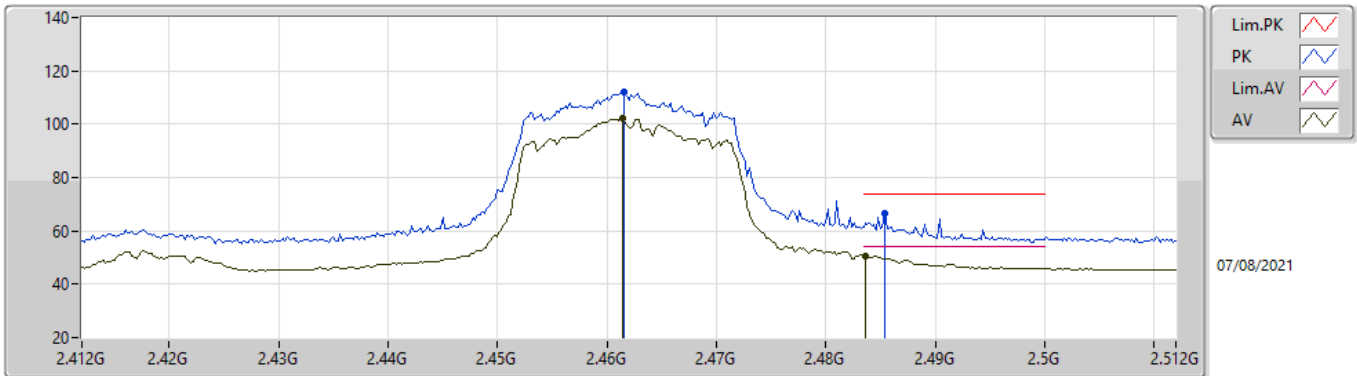


EUT\_Z\_2TX  
Setting 19  
03-C-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4614G	113.29	Inf	-Inf	81.26	3	Vertical	338	2.18	-	28.47	3.56	-
AV	2.4614G	107.39	Inf	-Inf	75.36	3	Vertical	338	2.18	-	28.47	3.56	-
PK	2.4842G	64.30	74.00	-9.70	32.11	3	Vertical	338	2.18	-	28.61	3.58	-
AV	2.4838G	51.97	54.00	-2.03	19.79	3	Vertical	338	2.18	-	28.60	3.58	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2462MHz\_TX

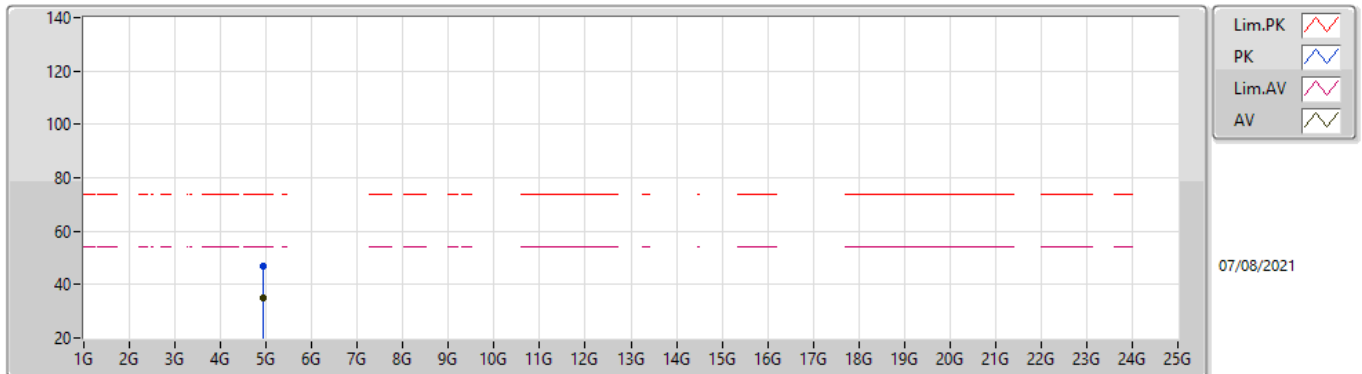


EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4616G	111.82	Inf	-Inf	79.79	3	Horizontal	360	2.15	-	28.47	3.56	-
AV	2.4614G	102.18	Inf	-Inf	70.15	3	Horizontal	360	2.15	-	28.47	3.56	-
PK	2.4854G	66.40	74.00	-7.60	34.20	3	Horizontal	360	2.15	-	28.61	3.59	-
AV	2.4836G	50.71	54.00	-3.29	18.53	3	Horizontal	360	2.15	-	28.60	3.58	-

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

### 2462MHz\_TX

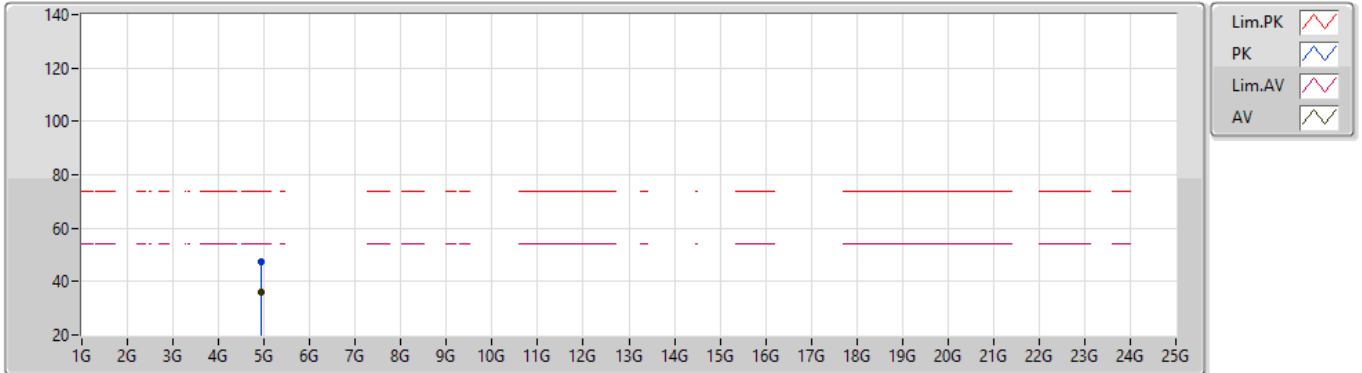


EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92414G	47.00	74.00	-27.00	42.33	3	Vertical	228	1.79	-	33.65	6.39	35.37
AV	4.9239G	34.97	54.00	-19.03	30.30	3	Vertical	228	1.79	-	33.65	6.39	35.37

### 802.11ax HEW20-BF\_Nss1,(MCS0)\_2TX

#### 2462MHz\_TX



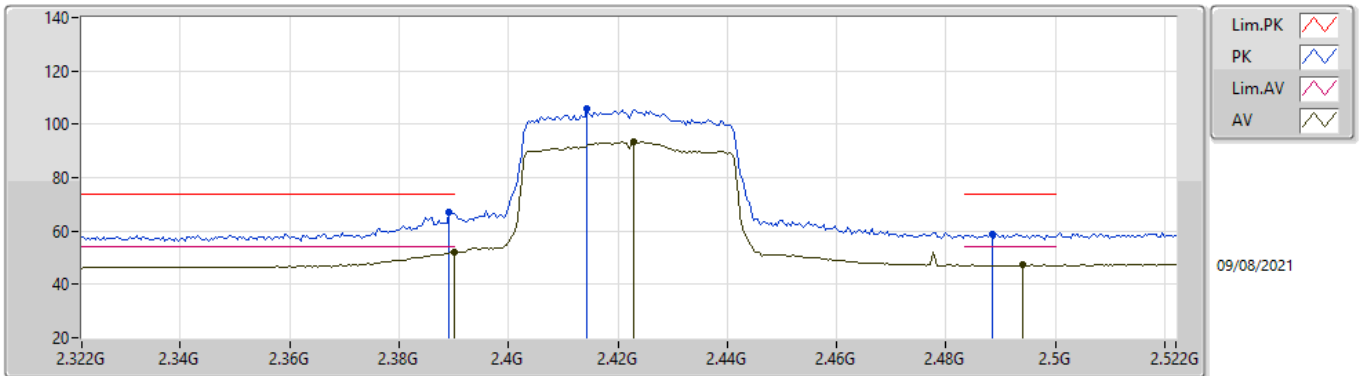
EUT\_Z\_2TX  
Setting 19  
03-D-K-5

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92312G	47.41	74.00	-26.59	42.75	3	Horizontal	194	1.80	-	33.65	6.38	35.37
AV	4.92404G	35.94	54.00	-18.06	31.27	3	Horizontal	194	1.80	-	33.65	6.39	35.37



### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

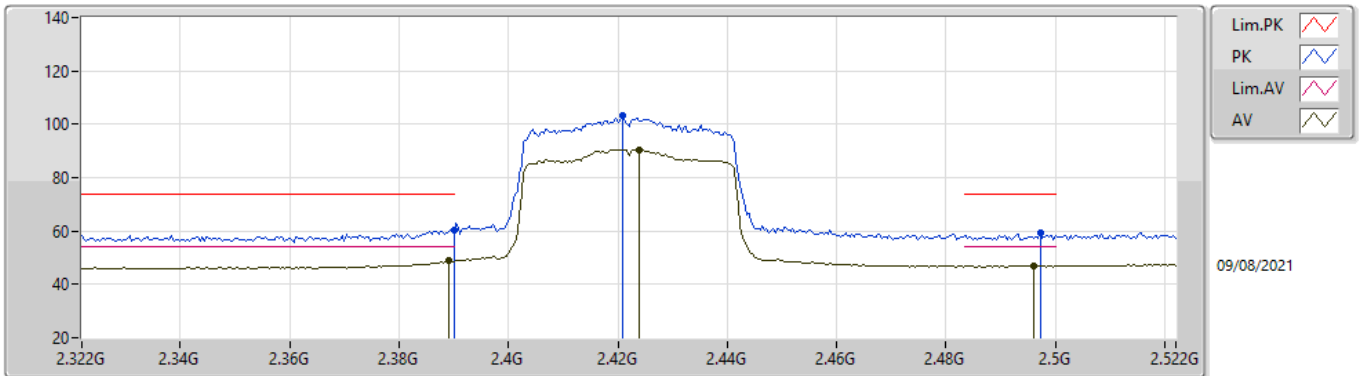


EUT\_Z\_2TX  
Setting 17  
02-A-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3892G	67.13	74.00	-6.87	36.34	3	Vertical	1	1.80	-	28.38	2.41	-
AV	2.39G	52.12	54.00	-1.88	21.33	3	Vertical	1	1.80	-	28.38	2.41	-
PK	2.4144G	105.73	Inf	-Inf	74.92	3	Vertical	1	1.80	-	28.40	2.41	-
AV	2.4228G	93.22	Inf	-Inf	62.41	3	Vertical	1	1.80	-	28.40	2.41	-
PK	2.4884G	58.70	74.00	-15.30	27.71	3	Vertical	1	1.80	-	28.55	2.44	-
AV	2.494G	47.30	54.00	-6.70	16.27	3	Vertical	1	1.80	-	28.58	2.45	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

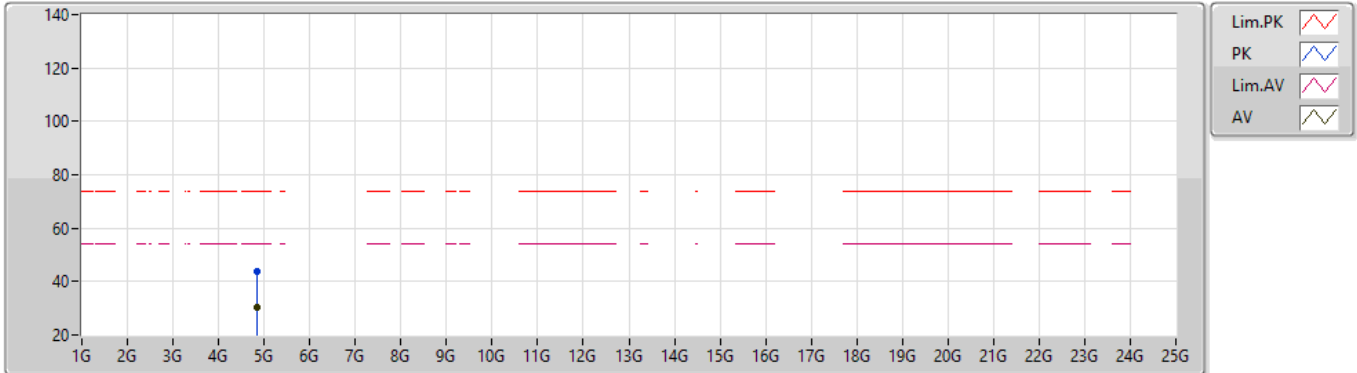


EUT\_Z\_2TX  
Setting 17  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.39G	60.58	74.00	-13.42	29.79	3	Horizontal	321	2.77	-	28.38	2.41	-
AV	2.3892G	48.80	54.00	-5.20	18.01	3	Horizontal	321	2.77	-	28.38	2.41	-
PK	2.4208G	103.11	Inf	-Inf	72.30	3	Horizontal	321	2.77	-	28.40	2.41	-
AV	2.424G	90.54	Inf	-Inf	59.73	3	Horizontal	321	2.77	-	28.40	2.41	-
PK	2.4972G	59.38	74.00	-14.62	28.34	3	Horizontal	321	2.77	-	28.59	2.45	-
AV	2.496G	46.98	54.00	-7.02	15.95	3	Horizontal	321	2.77	-	28.58	2.45	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2422MHz\_TX

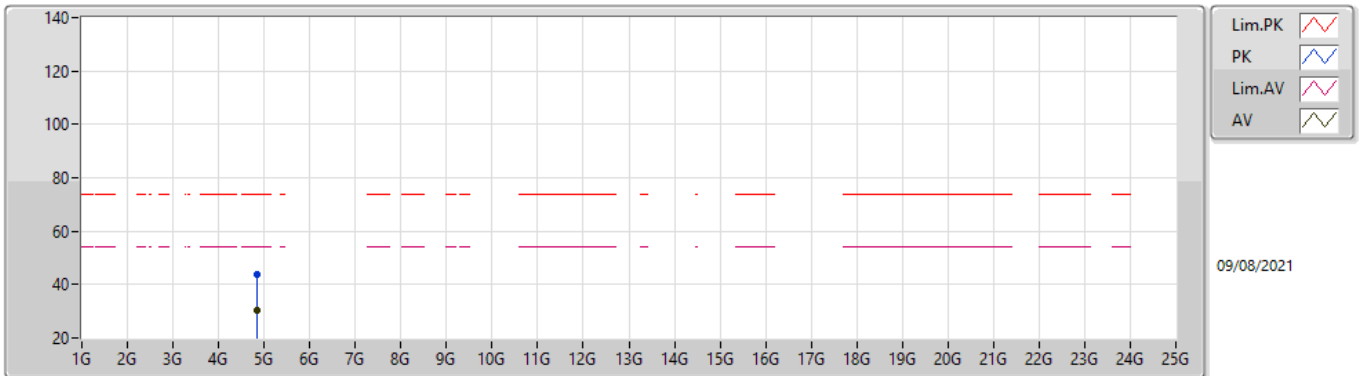


EUT\_Z\_2TX  
Setting 17  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84894G	43.89	74.00	-30.11	38.50	3	Vertical	147	1.67	-	32.90	4.70	32.21
AV	4.84696G	30.28	54.00	-23.72	24.91	3	Vertical	147	1.67	-	32.89	4.70	32.22

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2422MHz\_TX

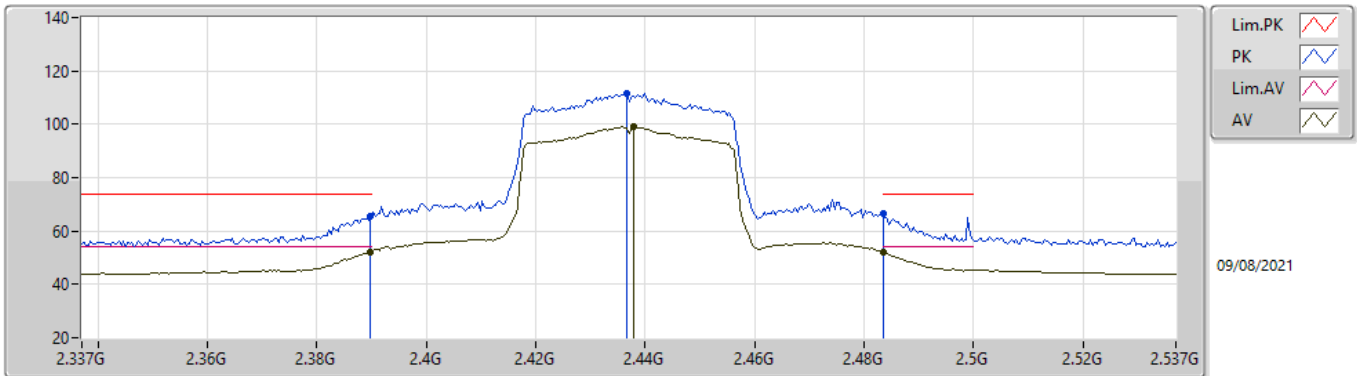


EUT\_Z\_2TX  
Setting 17  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.84402G	43.59	74.00	-30.41	38.23	3	Horizontal	339	1.95	-	32.88	4.70	32.22
AV	4.84358G	30.32	54.00	-23.68	24.97	3	Horizontal	339	1.95	-	32.87	4.70	32.22

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

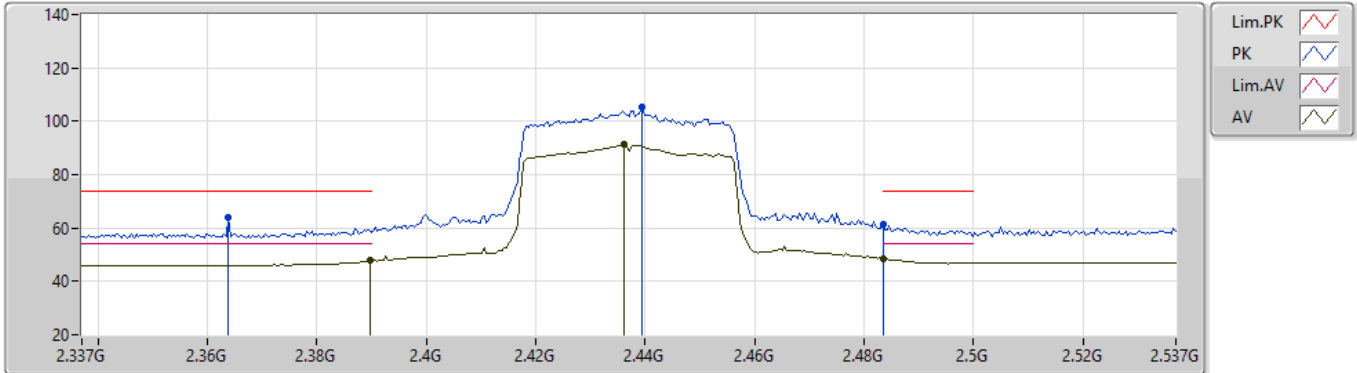


EUT\_Z\_2TX  
Setting 19  
02-A-K-3

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3898G	65.29	74.00	-8.71	34.50	3	Vertical	84.2	1.88	-	28.38	2.41	-
AV	2.3898G	52.22	54.00	-1.78	21.43	3	Vertical	84.2	1.88	-	28.38	2.41	-
PK	2.4366G	111.75	Inf	-Inf	80.93	3	Vertical	84.2	1.88	-	28.40	2.42	-
AV	2.4378G	99.15	Inf	-Inf	68.33	3	Vertical	84.2	1.88	-	28.40	2.42	-
PK	2.4835G	66.50	74.00	-7.50	35.53	3	Vertical	84.2	1.88	-	28.53	2.44	-
AV	2.4835G	52.14	54.00	-1.86	21.17	3	Vertical	84.2	1.88	-	28.53	2.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

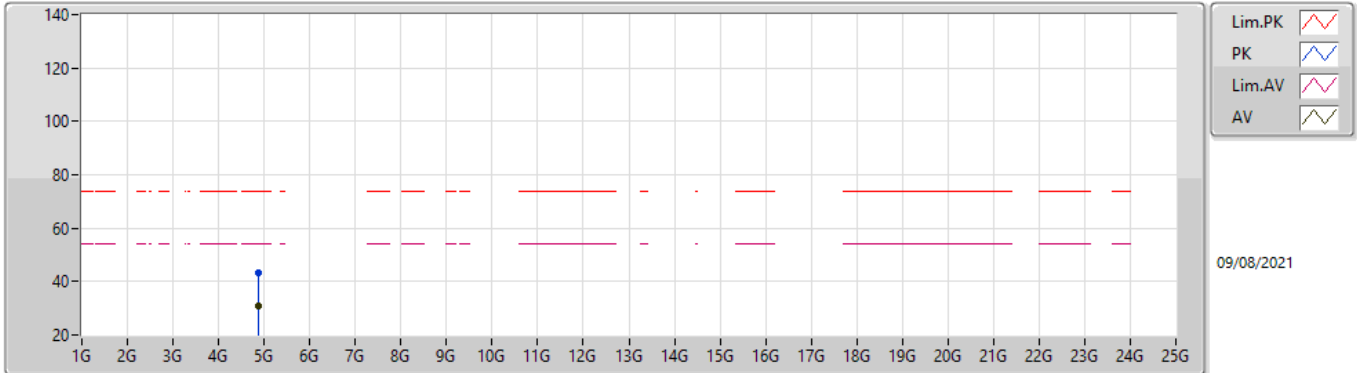


EUT\_Z\_2TX  
Setting 19  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3638G	64.01	74.00	-9.99	33.26	3	Horizontal	49.4	1.80	-	28.33	2.42	-
AV	2.3898G	47.70	54.00	-6.30	16.91	3	Horizontal	49.4	1.80	-	28.38	2.41	-
PK	2.4394G	105.20	Inf	-Inf	74.38	3	Horizontal	49.4	1.80	-	28.40	2.42	-
AV	2.4362G	91.31	Inf	-Inf	60.49	3	Horizontal	49.4	1.80	-	28.40	2.42	-
PK	2.4835G	61.13	74.00	-12.87	30.16	3	Horizontal	49.4	1.80	-	28.53	2.44	-
AV	2.4835G	48.48	54.00	-5.52	17.51	3	Horizontal	49.4	1.80	-	28.53	2.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2437MHz\_TX

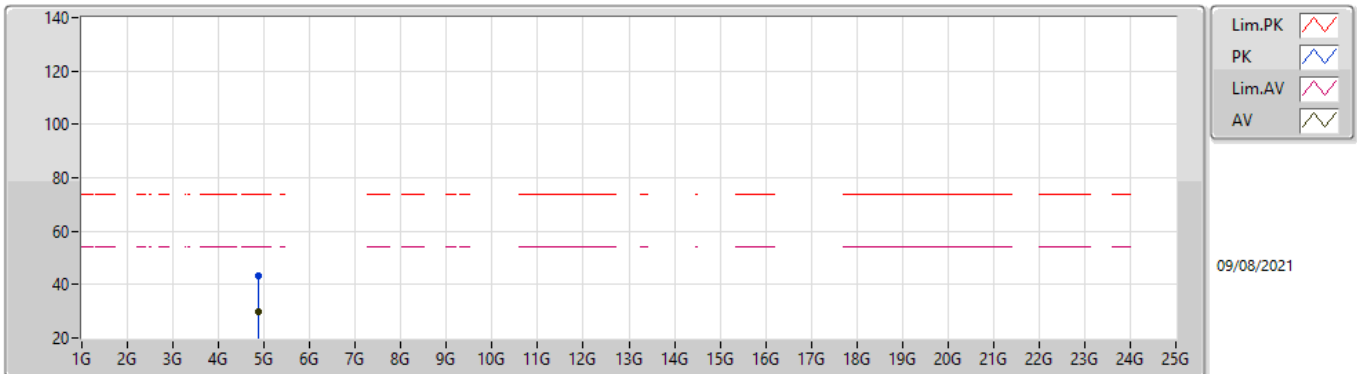


EUT\_Z\_2TX  
Setting 19  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87418G	43.35	74.00	-30.65	37.91	3	Vertical	198	1.06	-	32.95	4.70	32.21
AV	4.87214G	30.96	54.00	-23.04	25.53	3	Vertical	198	1.06	-	32.94	4.70	32.21

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2437MHz\_TX



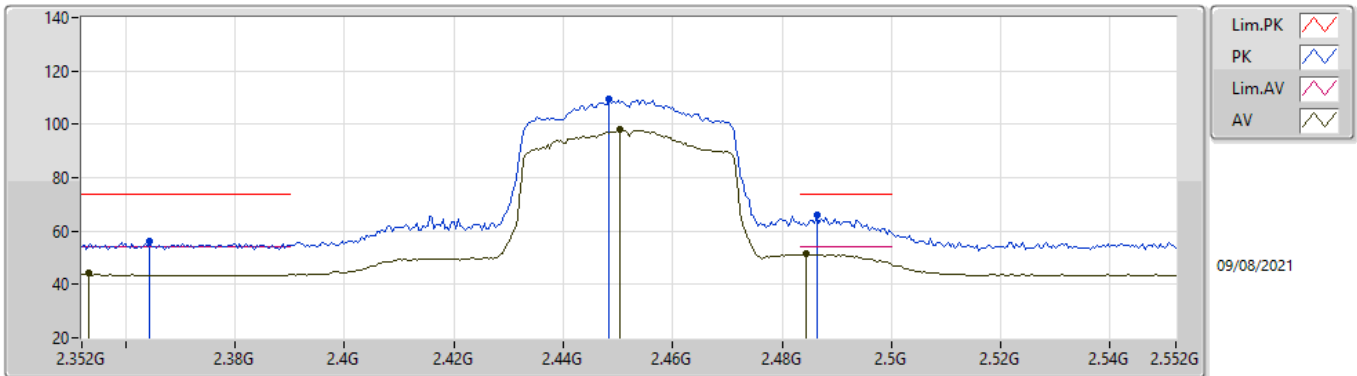
EUT\_Z\_2TX  
Setting 19  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86918G	43.36	74.00	-30.64	37.93	3	Horizontal	171	2.26	-	32.94	4.70	32.21
AV	4.87408G	29.87	54.00	-24.13	24.43	3	Horizontal	171	2.26	-	32.95	4.70	32.21



### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

#### 2452MHz\_TX

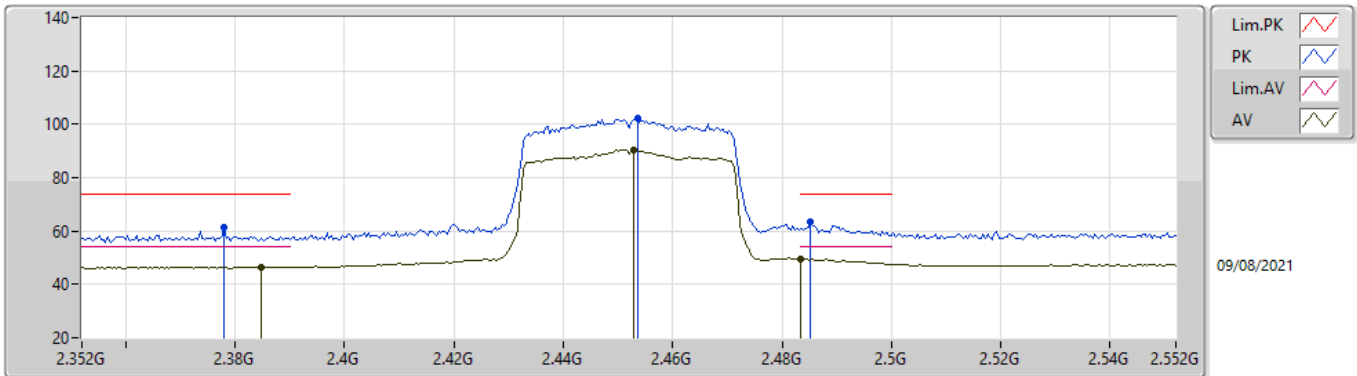


EUT\_Z\_2TX  
Setting 18  
02-A-K-3

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	2.3644G	56.32	74.00	-17.68	25.57	3	Vertical	272.2	2.25	-	28.33	2.42	-
AV	2.3532G	44.06	54.00	-9.94	13.33	3	Vertical	272.2	2.25	-	28.31	2.42	-
PK	2.4484G	109.30	Inf	-Inf	78.48	3	Vertical	272.2	2.25	-	28.40	2.42	-
AV	2.4504G	97.96	Inf	-Inf	67.13	3	Vertical	272.2	2.25	-	28.40	2.43	-
PK	2.4484G	109.30	Inf	-Inf	78.48	3	Vertical	272.2	2.25	-	28.40	2.42	-
PK	2.4864G	65.86	74.00	-8.14	34.87	3	Vertical	272.2	2.25	-	28.55	2.44	-
AV	2.4844G	51.44	54.00	-2.56	20.46	3	Vertical	272.2	2.25	-	28.54	2.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2452MHz\_TX

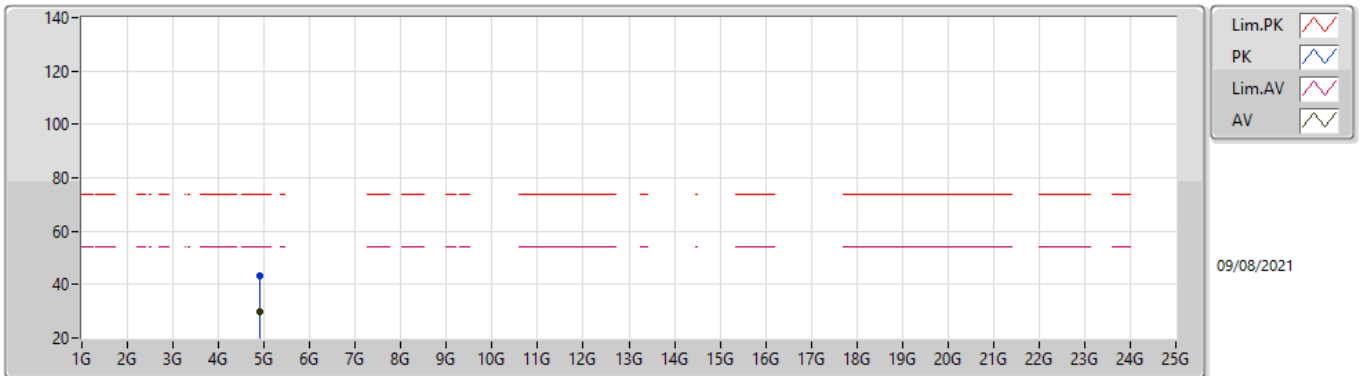


EUT\_Z\_2TX  
Setting 18  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.378G	61.62	74.00	-12.38	30.85	3	Horizontal	47.8	1.80	-	28.36	2.41	-
AV	2.3848G	46.50	54.00	-7.50	15.72	3	Horizontal	47.8	1.80	-	28.37	2.41	-
PK	2.4536G	102.01	Inf	-Inf	71.17	3	Horizontal	47.8	1.80	-	28.41	2.43	-
AV	2.4528G	90.42	Inf	-Inf	59.58	3	Horizontal	47.8	1.80	-	28.41	2.43	-
PK	2.4852G	63.24	74.00	-10.76	32.26	3	Horizontal	47.8	1.80	-	28.54	2.44	-
AV	2.4835G	49.31	54.00	-4.69	18.34	3	Horizontal	47.8	1.80	-	28.53	2.44	-

### 802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

### 2452MHz\_TX

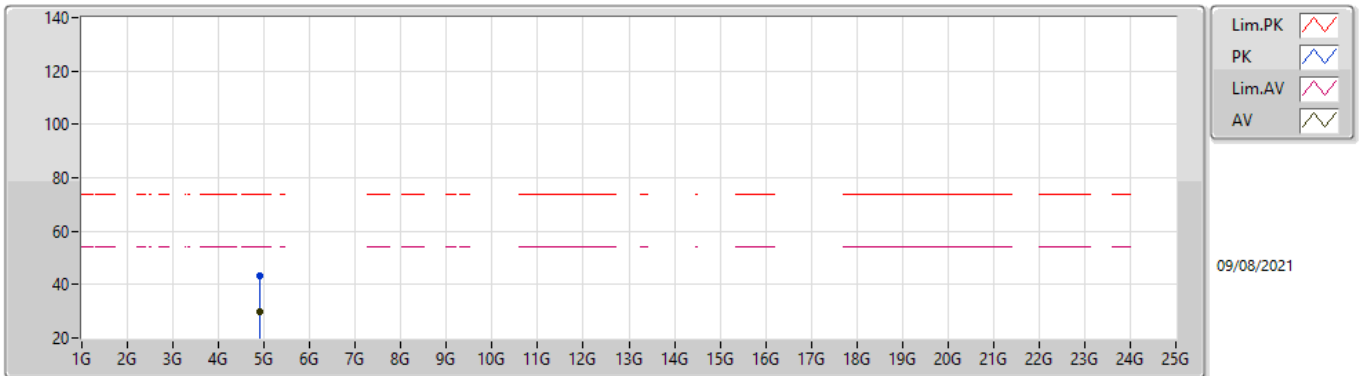


EUT\_Z\_2TX  
Setting 18  
02-B-G-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90096G	43.46	74.00	-30.54	37.95	3	Vertical	21	2.14	-	33.01	4.70	32.20
AV	4.90544G	30.01	54.00	-23.99	24.47	3	Vertical	21	2.14	-	33.03	4.70	32.19

802.11ax HEW40-BF\_Nss1,(MCS0)\_2TX

2452MHz\_TX



EUT\_Z\_2TX  
Setting 18  
02-B-G-2

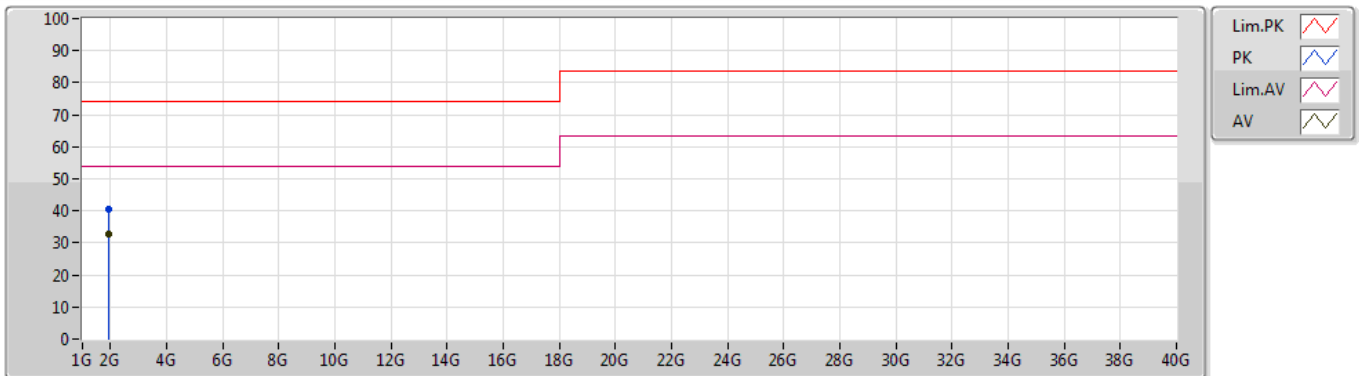
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90458G	43.45	74.00	-30.55	37.91	3	Horizontal	187	2.46	-	33.03	4.70	32.19
AV	4.90514G	29.97	54.00	-24.03	24.43	3	Horizontal	187	2.46	-	33.03	4.70	32.19



**Summary**

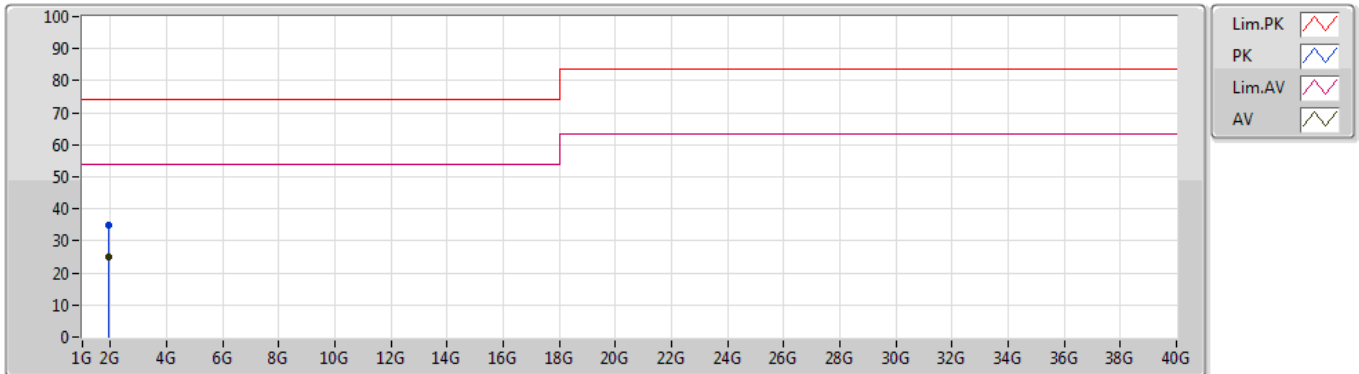
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.91999G	32.58	54.00	-21.42	Vertical

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	1.9202G	40.67	74.00	-33.33	-7.96	3	Vertical	199	1.78	-	48.63	25.52	3.72	37.20
AV	1.91999G	32.58	54.00	-21.42	-7.96	3	Vertical	199	1.78	"Worst"	40.54	25.52	3.72	37.20

### 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	1.9199G	34.99	74.00	-39.01	-7.96	3	Horizontal	208	1.00	-	42.95	25.52	3.72	37.20
AV	1.92003G	25.10	54.00	-28.90	-7.96	3	Horizontal	208	1.00	"Worst"	33.06	25.52	3.72	37.20