



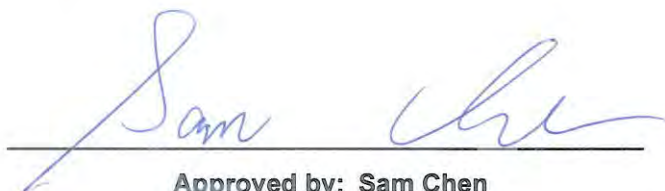
FCC RADIO TEST REPORT

FCC ID : NKR-LVSK-M1
Equipment : Wi-Fi Extender
Brand Name : verizon
Model Name : LVM1
Applicant : Wistron NeWeb Corporation
20 Park Ave. II, Hsinchu Science Park, Hsinchu
308, Taiwan
Manufacturer : Wistron NeWeb Corporation
20 Park Ave. II, Hsinchu Science Park, Hsinchu
308, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 01, 2019, and testing was started from Jun. 01, 2019 and completed on Jun. 29, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	8
2 Test Configuration of EUT	9
2.1 Test Channel Mode	9
2.2 The Worst Case Measurement Configuration.....	11
2.3 EUT Operation during Test	12
2.4 Accessories	12
2.5 Support Equipment.....	13
2.6 Test Setup Diagram	14
3 Transmitter Test Result	18
3.1 AC Power-line Conducted Emissions	18
3.2 DTS Bandwidth	20
3.3 Maximum Conducted Output Power	21
3.4 Power Spectral Density	24
3.5 Emissions in Non-restricted Frequency Bands	26
3.6 Emissions in Restricted Frequency Bands.....	27
4 Test Equipment and Calibration Data	31
Appendix A. Test Results of AC Power-line Conducted Emissions	
Appendix B. Test Results of DTS Bandwidth	
Appendix C. Test Results of Maximum Conducted Output Power	
Appendix D. Test Results of Power Spectral Density	
Appendix E. Test Results of Emissions in Non-restricted Frequency Bands	
Appendix F. Test Results of Emissions in Restricted Frequency Bands	
Appendix G. Test Results of Radiated Emission Co-location	
Appendix H. Test Photos	
Photographs of EUT v01	



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0



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:

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Viola Huang**

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	VHT20	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	VHT40	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.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

**1.1.2 Antenna Information**

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	WNC	95XKAC15.GCOVZ	Dipole	I-PEX MHF	Note1
2	2	WNC	95XKAC15.GCEVZ	Dipole	I-PEX MHF	
3	1	WNC	95XKAC15.GCKVZ	Dipole	I-PEX MHF	
4	2	WNC	95XKAC15.GCJVZ	Dipole	I-PEX MHF	
5	3	WNC	95XKAC15.GCIVZ	Dipole	I-PEX MHF	
6	4	WNC	95XKAC15.GCLVZ	Dipole	I-PEX MHF	
7	1	WNC	95XKAC15.GCNVZ	Patch	I-PEX MHF	
8		WNC	95XKAC15.GCMVZ	Patch	I-PEX MHF	

Note1:

Directional Gain (dBi)				
Ant.	Port	2.4GHz	5G Bnad 1	5G Bnad 4
1	1	4.17	-	2.96
2	2	4.17	-	2.96
3	1	-	5.76	-
4	2	-	5.76	-
5	3	-	5.76	-
6	4	-	5.76	-

Antenna Gain (dBi)		
Ant.	Port	Bluetooth
7	1	2.66
8		2.66

Note2:The above information was declared by manufacturer.

For 2.4GHz and 5GHz band 4 function (2TX/2RX):

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

Port 1 and Port 2 can could transmit/receive simultaneously.

For 5GHz band 1 function (4TX/4RX):

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

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

For bluetooth function (1TX/1RX):

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

**1.1.3 Mode Test Duty Cycle**

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.581	2.36	705.128u	3k
802.11g	0.919	0.37	1.435m	1k
802.11ax HEW20	0.951	0.22	5.455m	300
802.11ax HEW20-BF	0.977	0.1	1.761m	1k
802.11ax HEW40	0.962	0.17	5.455m	300
802.11ax HEW40-BF	0.976	0.11	1.956m	1k

Note:

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming for 802.11ax in 2.4GHz and 802.11ac/ax in 5GHz	☐	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QSPR(version v5.0-00163)			

Note: The above information was declared by manufacturer.

1.1.5 EUT supports function

Function
Mesh
Bridge

Note: The EUT supports Mesh and Bridge mode, only Mesh mode was tested and recorded in this test report for manufacturer's request.



1.2 Applicable Standards

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

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

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Benson Su	22~24°C / 50~60%	Jun. 05, 2019 ~ Jun. 29, 2019
Radiated	03CH03-CB for below 1GHz	RJ Huang	22~24°C / 55~60%	Jun. 28, 2019
Radiated	03CH01-CB for above 1GHz	Stim Sung	22~24°C / 50~60%	Jun. 01, 2019 ~ Jun. 29, 2019
AC Conduction	CO01-CB	Peter Wu	24.6~24.8°C / 60~61%	Jun. 28, 2019

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086B with Industry Canada.

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 (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Power Density Measurement	1.4 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	25
2417MHz	27
2437MHz	27
2457MHz	23
2462MHz	23
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	22
2417MHz	23
2437MHz	26
2457MHz	23.5
2462MHz	21
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	20.5
2417MHz	22.5
2437MHz	26
2457MHz	23
2462MHz	20
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	19
2427MHz	20
2437MHz	21
2447MHz	18
2452MHz	20
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	23
2417MHz	26
2437MHz	26
2457MHz	25
2462MHz	24
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-



Mode	PowerSetting
2422MHz	22
2427MHz	22
2437MHz	25
2447MHz	22
2452MHz	20

Note:

- ♦ HEW20/HEW40 covers VHT20/VHT40, due to same modulation. The power setting for VHT20 and VHT40 are the same or lower than VHT20 and VHT40.
- ♦ There are two modes of EUT for 802.11ax in 2.4GHz and 802.11ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz Band 4
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz Band 1 + WLAN 5GHz Band 4 + Bluetooth
Refer to Sporton Test Report No.: FA953007 for Co-location RF Exposure Evaluation.	

Note: The EUT only use in Z axis.



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 Telnet.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Device 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	LUCENT TRANS	1A95-US1223	INPUT: 100-240V, 1A, 50-60Hz OUTPUT: 19V, 2.37A



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN1 NB	DELL	E6430	N/A
B	LAN2 NB	DELL	E6430	N/A
C	Device	verizon	LVM1	NKR-LVSK-M1
D	Smart phone	Samsung	Galaxy J2	N/A
E	2.4G NB	DELL	E6430	N/A
F	5G NB	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Device	verizon	LVM1	NKR-LVSK-M1
D	Phone	Samsung	SM-J200Y	N/A
E	NB	Apple	Mac Book	N/A
F	NB	Apple	Mac Book	N/A

For Radiated (above 1GHz) & RF Conducted:

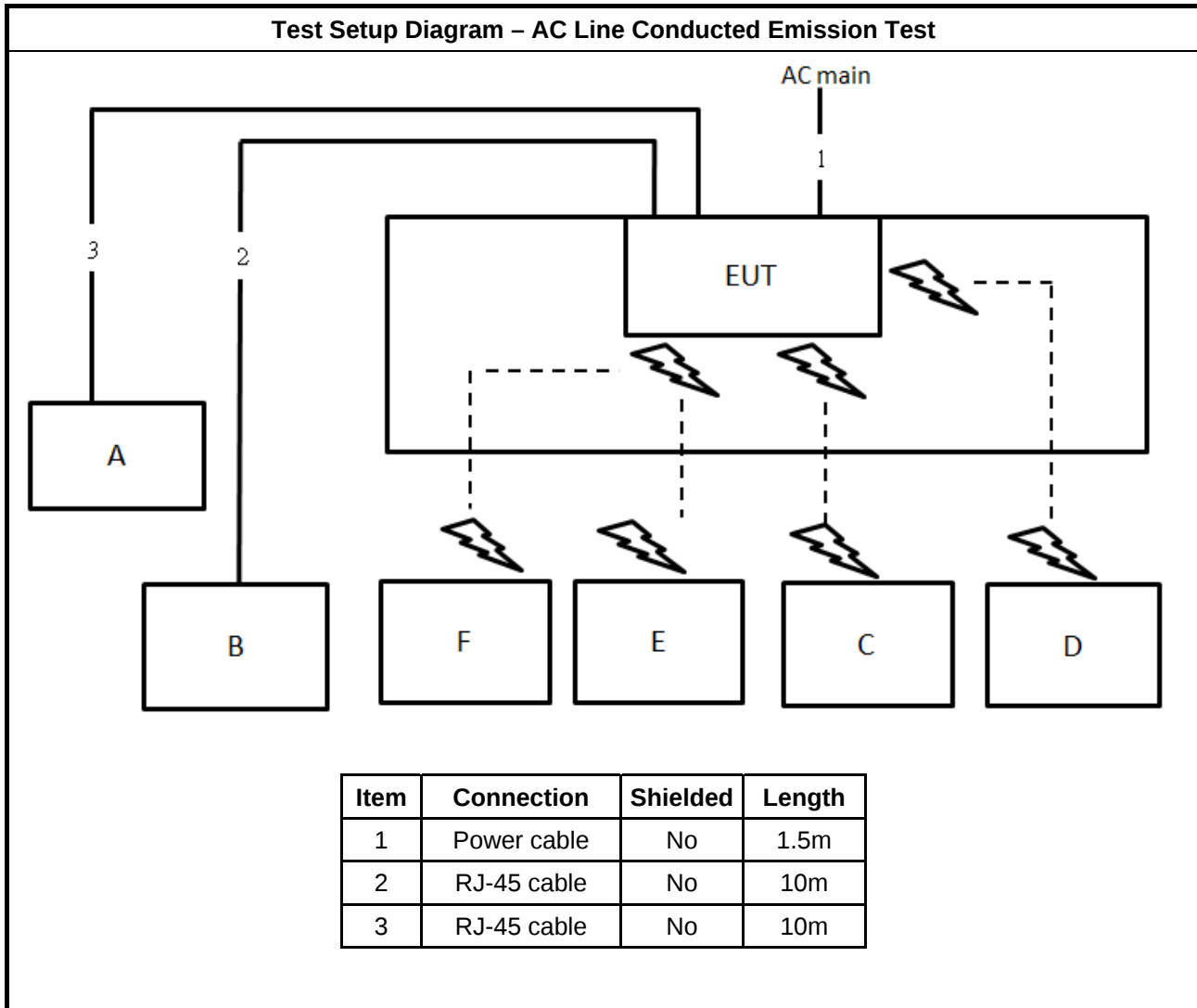
For non-beamforming mode

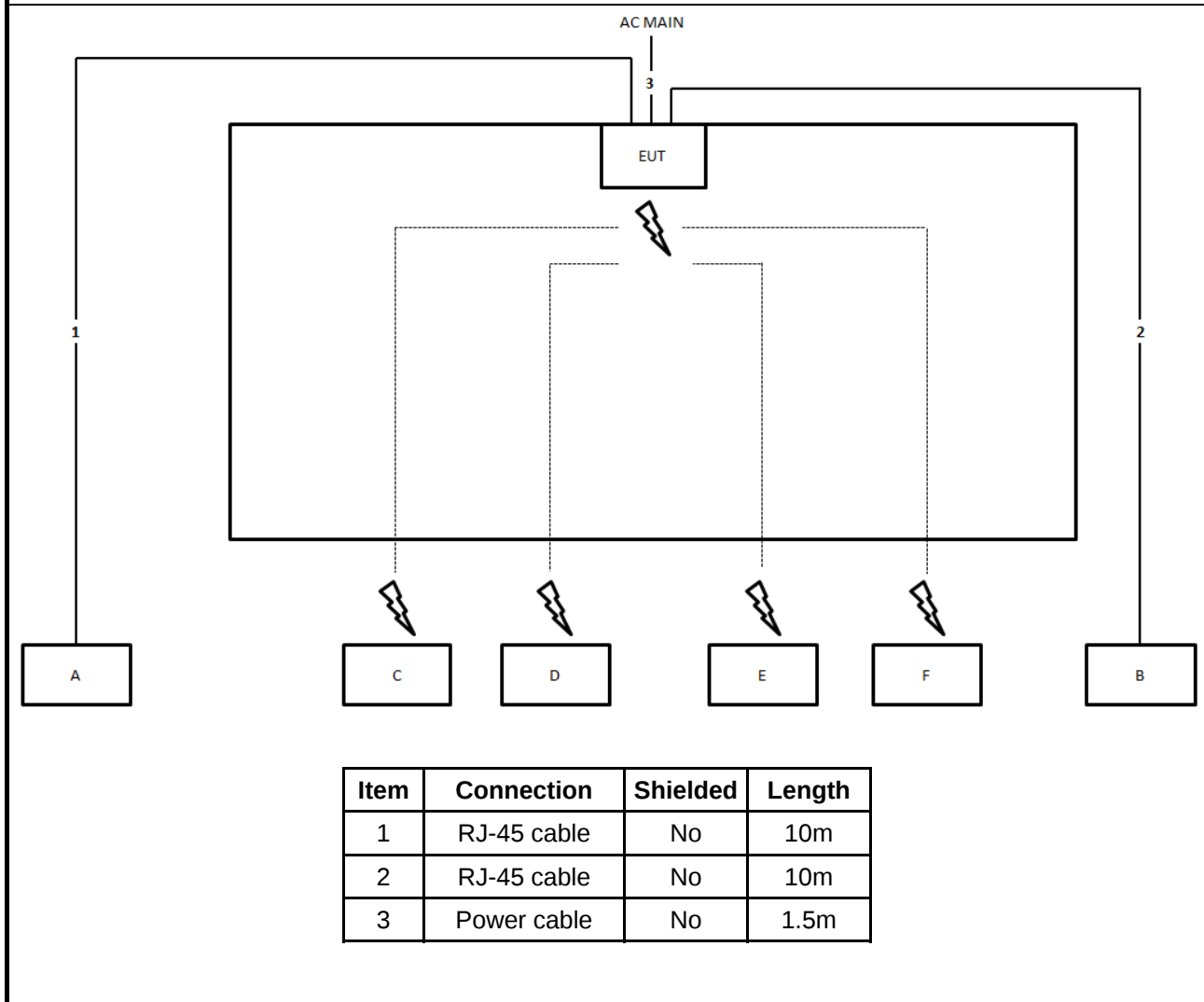
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

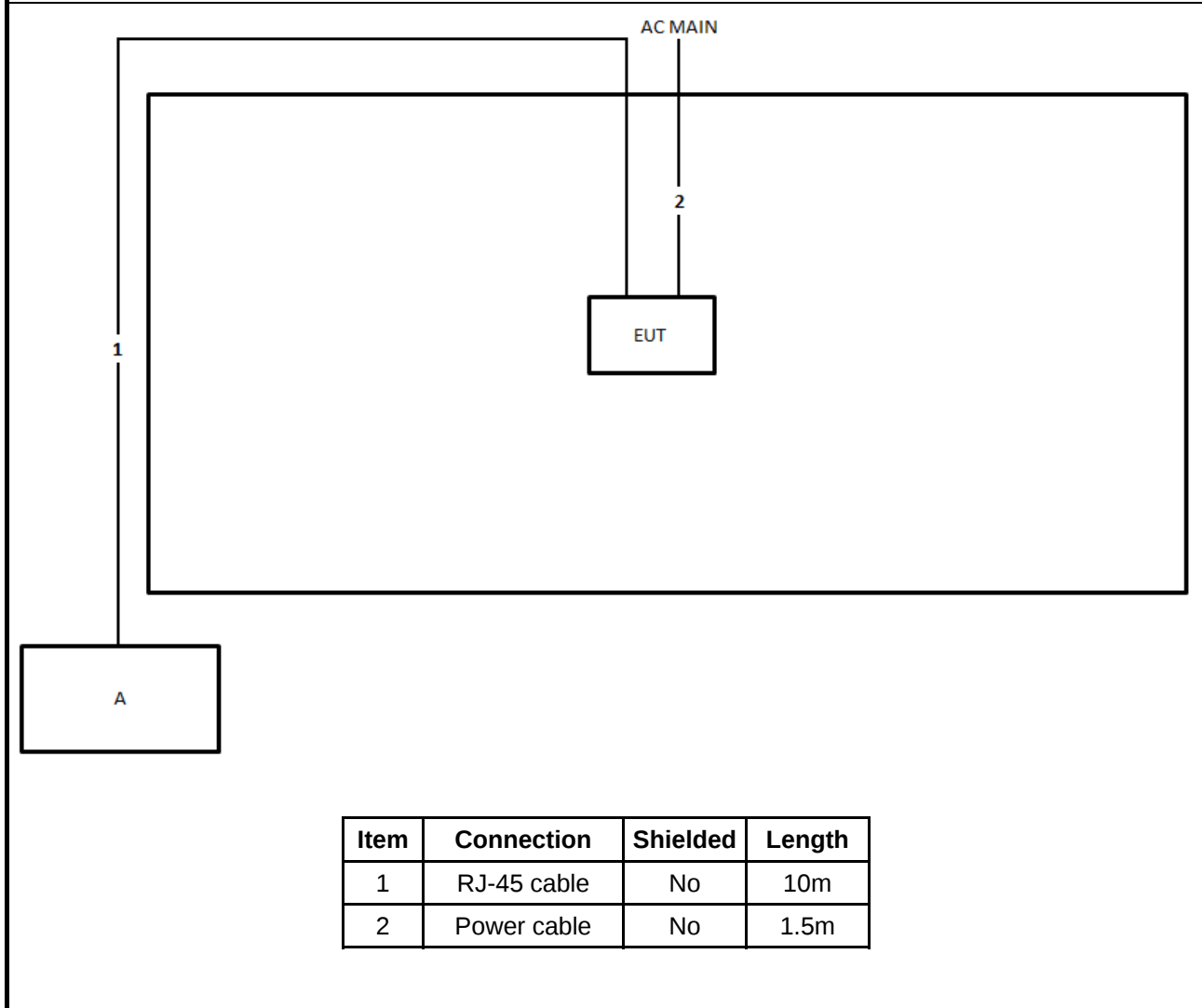
For beamforming mode

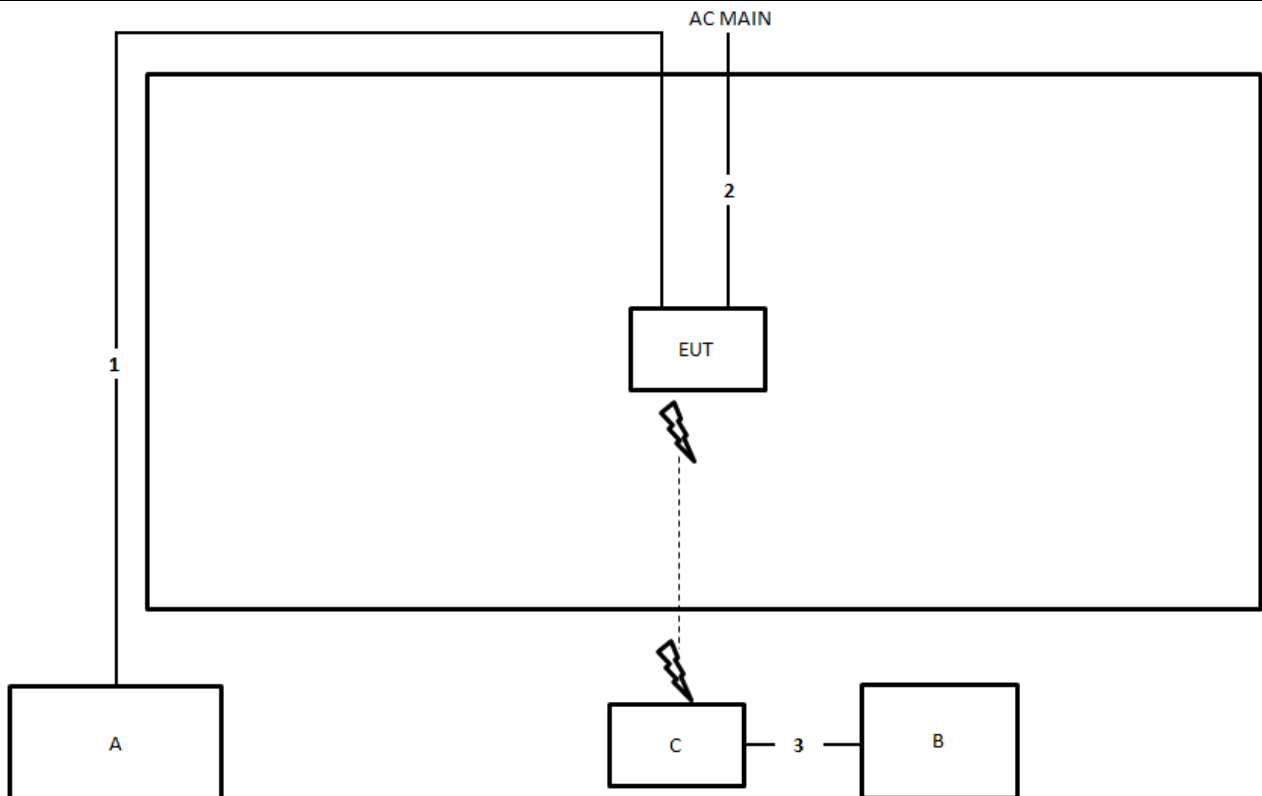
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	Device	verizon	LVM1	NKR-LVSK-M1

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Test Setup Diagram - Radiated Test > 1GHz / for non-beamforming mode


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


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



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

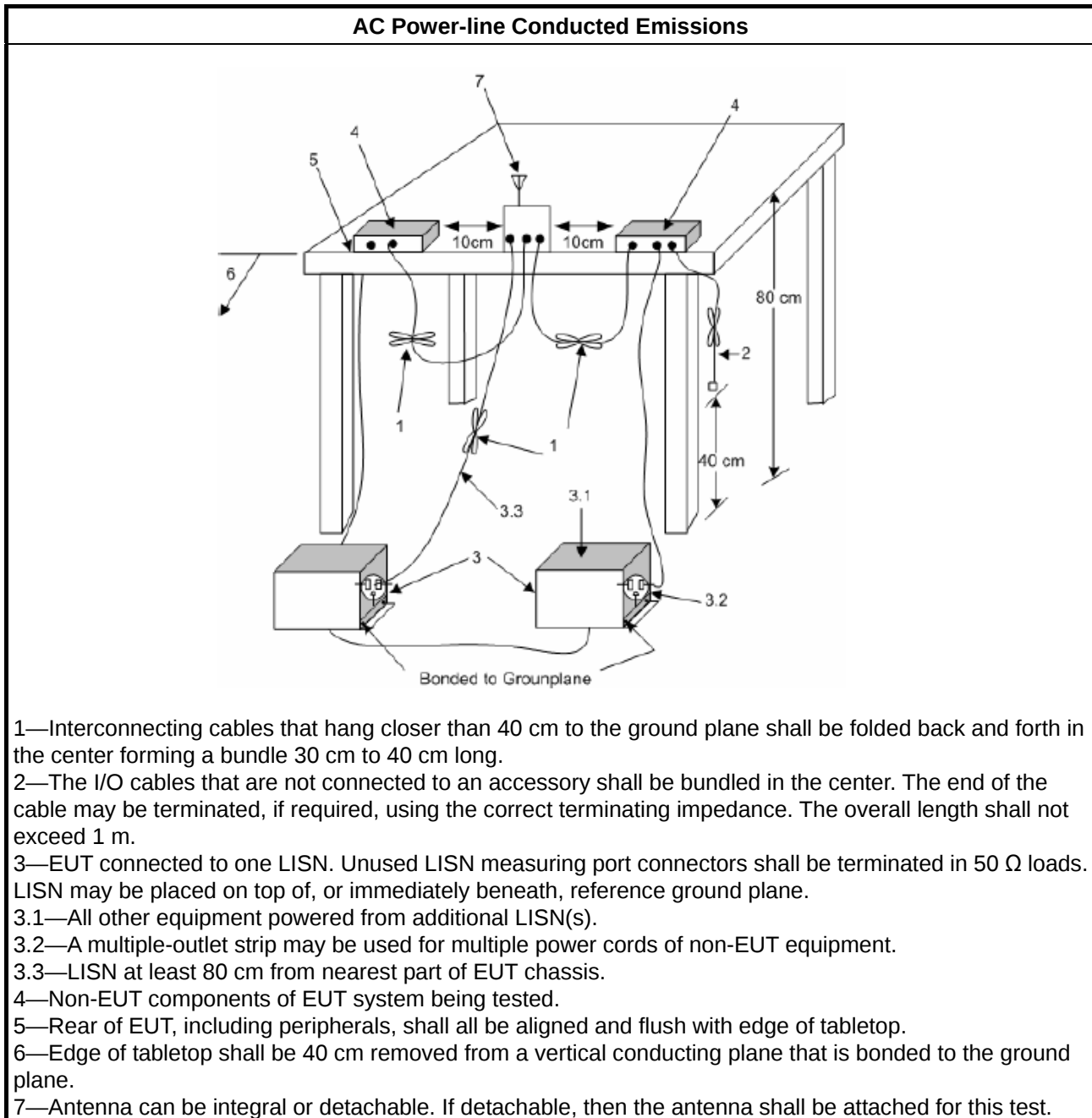
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

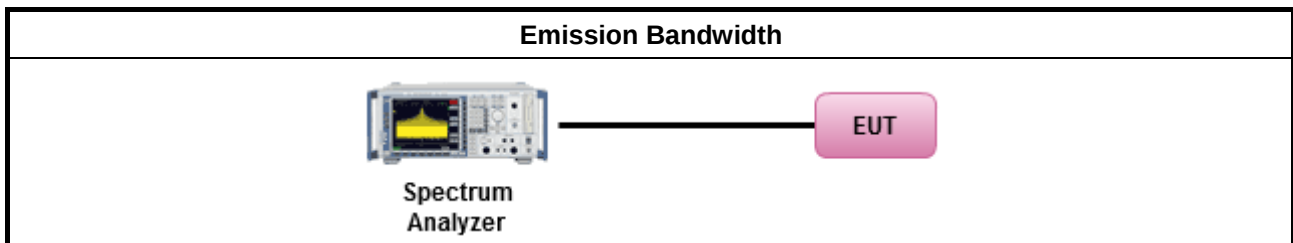
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

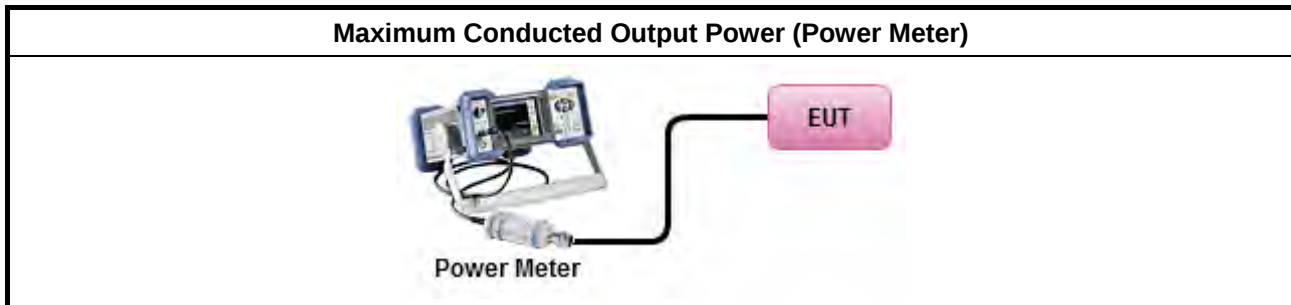
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
Measurement using a power meter (PM)	
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

3.4.2 Measuring Instruments

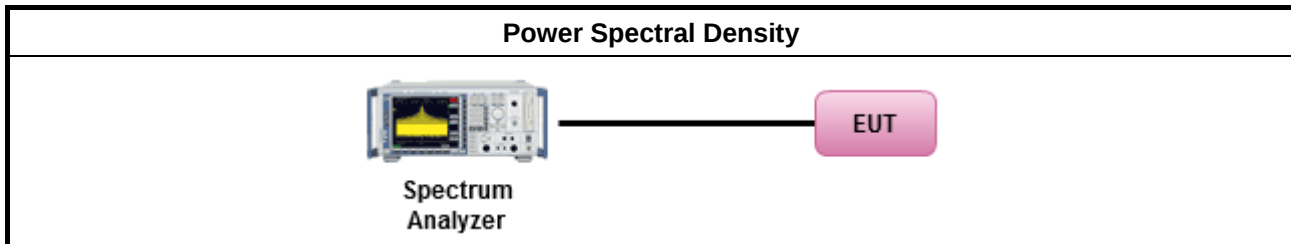
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).	
☒	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.2 Method PKPSD. [duty cycle $\geq 98\%$ or external video / power trigger]
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPS-1.
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPS-2.
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPS-3.
duty cycle $< 98\%$ and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.4 Method AVGPS-1A. (alternative).
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPS-2A. (alternative)
☐	Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.8 Method AVGPS-3A. (alternative)
▪ For conducted measurement.	
▪ If The EUT supports multiple transmit chains using options given below:	
☒	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,

- ☐ Option 3: Measure and add $10 \log(N)$ dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with $10 \log(N)$. Or each transmit chains shall be add $10 \log(N)$ to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

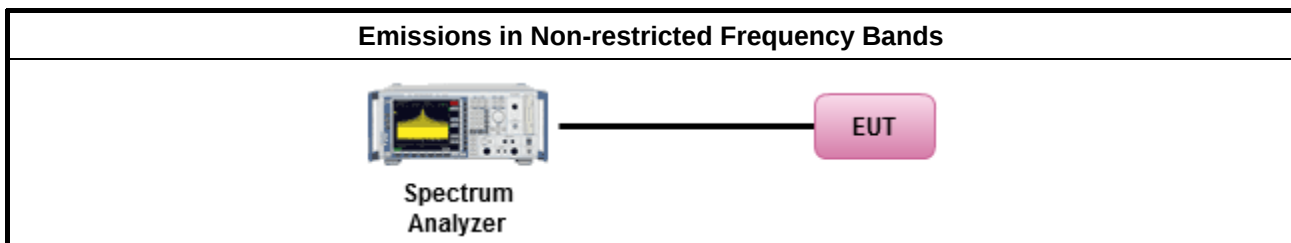
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

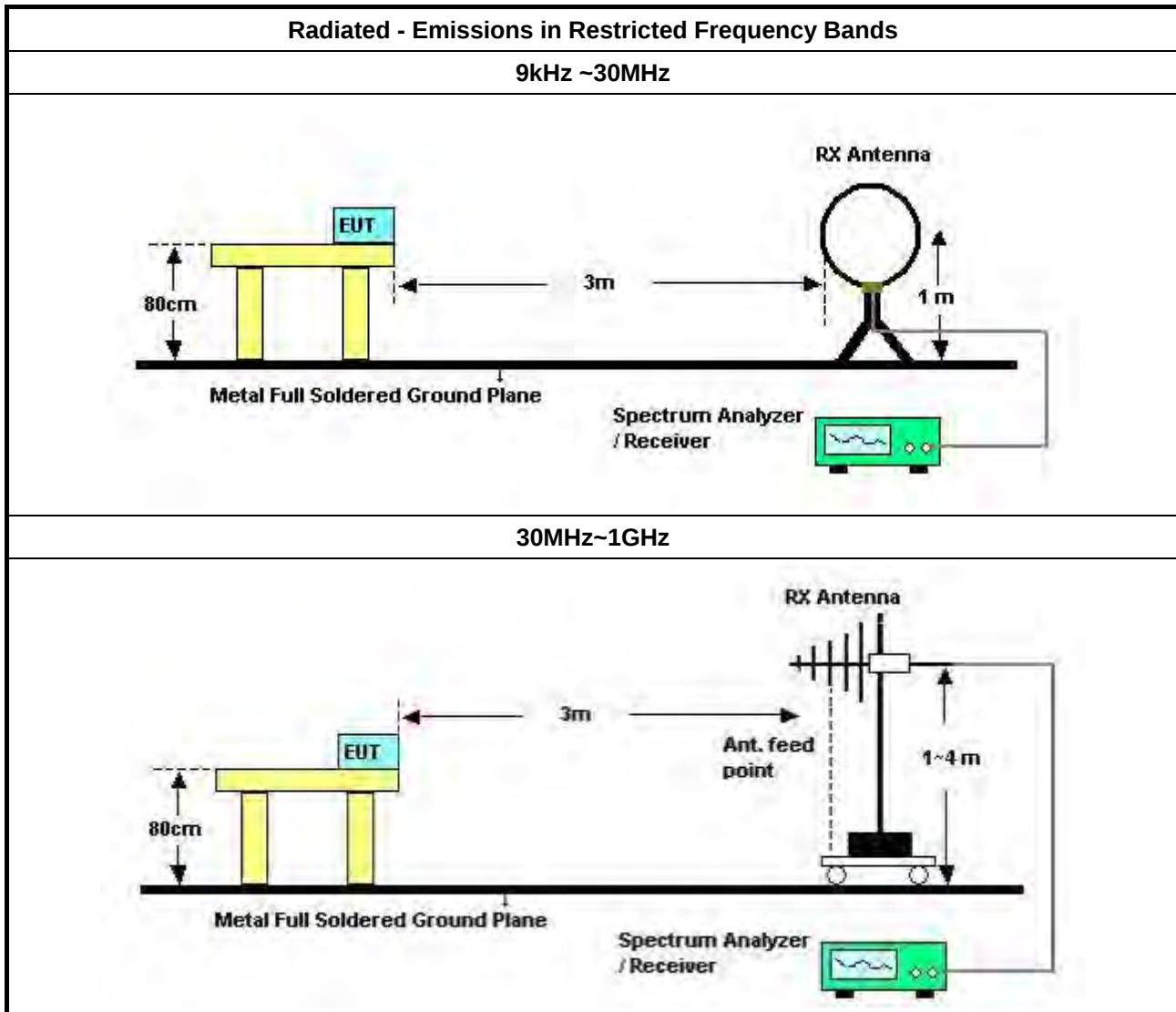
3.6.2 Measuring Instruments

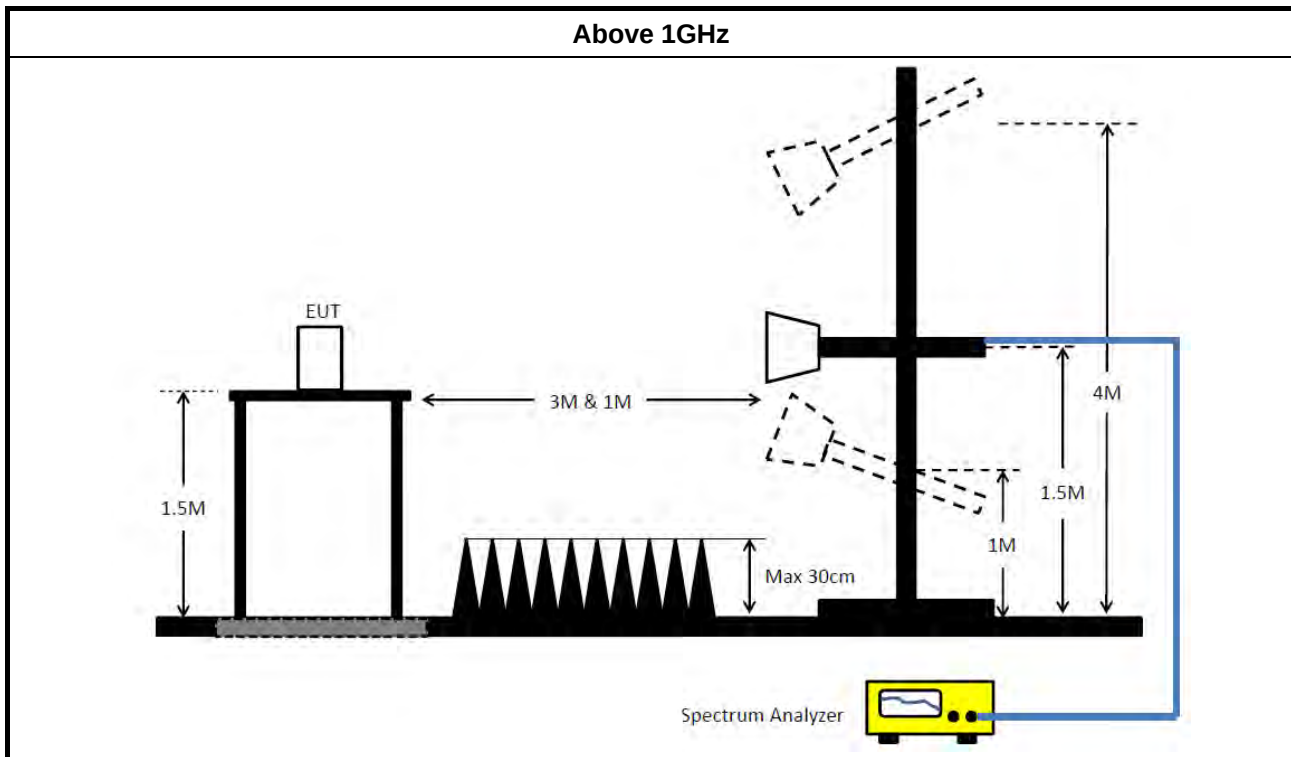
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle $\geq 98\%$).
☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW $\geq 1/T$).
☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

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 10 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

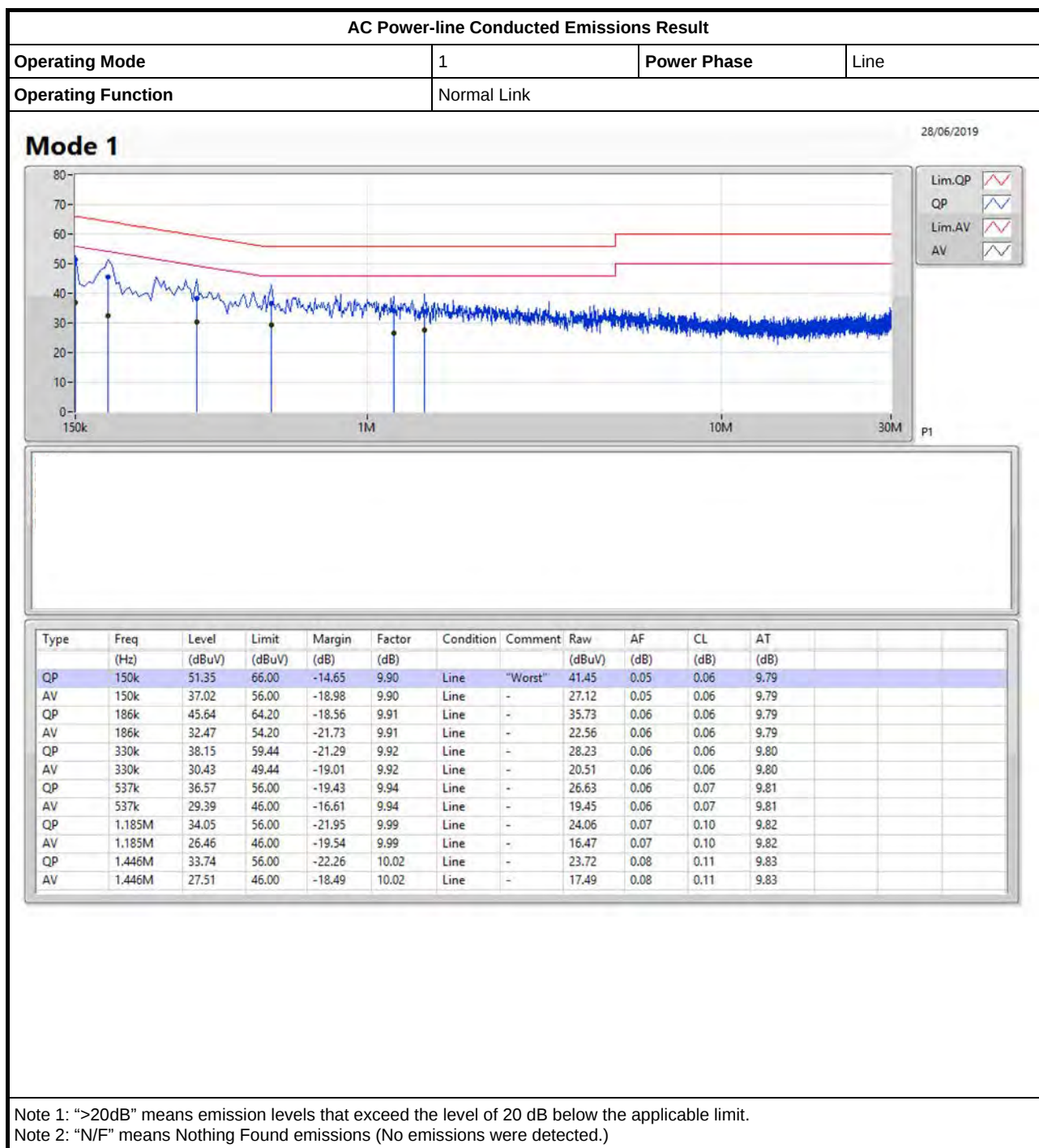
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz~100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Bilog Antenna with 6 dB attenuator	Schaffner	CBL6112B & N-6-06	2928 & AT-N0607	20MHz ~ 2GHz	Jan. 02, 2019	Jan. 01, 2020	Radiation (03CH03-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 16, 2019	Jan. 15, 2020	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP-40	100019	9kHz ~ 40GHz	Jun. 19, 2019	Jun. 18, 2020	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jun. 26, 2019	Jun. 25, 2020	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+27	25MHz ~ 1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH03-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 27, 2019	Jun. 26, 2020	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Jan. 31, 2019	Jan. 30, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)

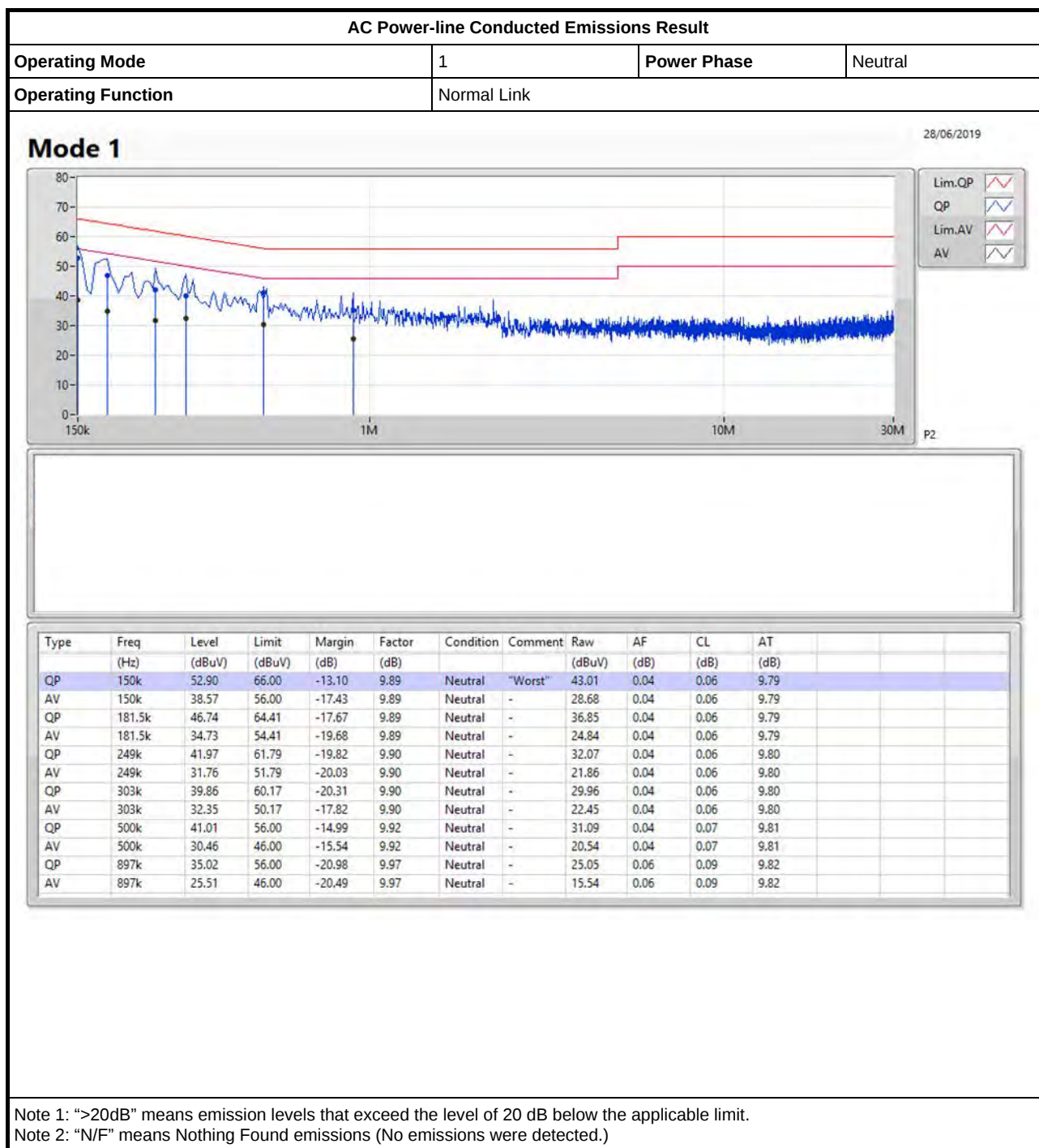


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

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

N.C.R. means Non-Calibration required.





**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	8.05M	13.243M	13M2G1D	7M	12.844M
802.11g_Nss1,(6Mbps)_2TX	16.475M	16.692M	16M7D1D	16.425M	16.492M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.975M	19.015M	19M0D1D	18.375M	18.916M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.95M	37.831M	37M8D1D	37.75M	37.681M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	18.925M	19M	19M0D1D	18.65M	18.95M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	37.95M	38.05M	38M0D1D	37.55M	37.95M

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;

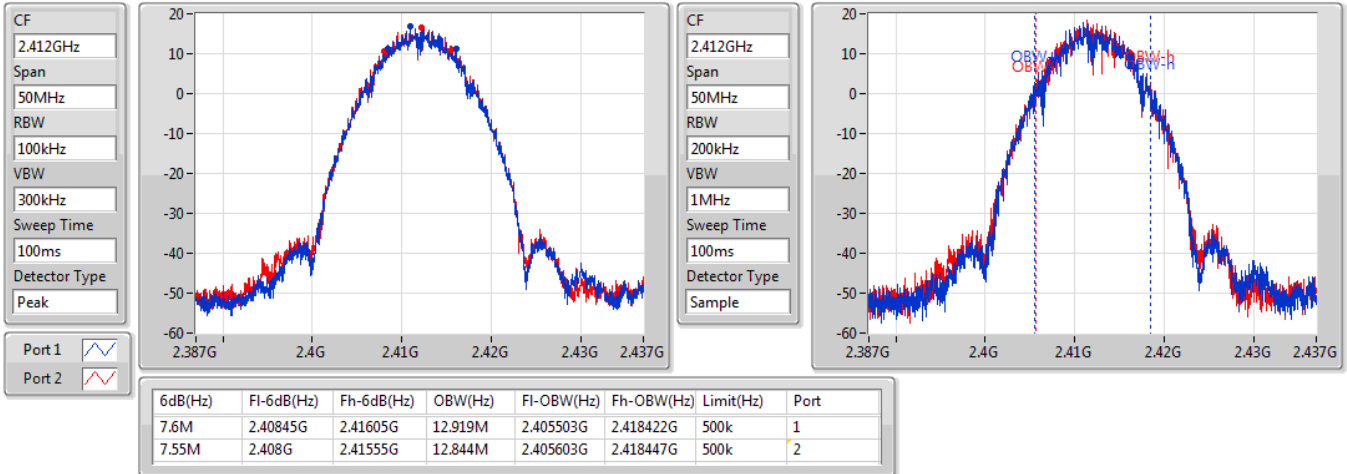
Result

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	7.6M	12.919M	7.55M	12.844M
2437MHz	Pass	500k	7.175M	13.193M	8.05M	13.168M
2462MHz	Pass	500k	8.025M	12.869M	8M	12.944M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.45M	16.492M	16.475M	16.492M
2437MHz	Pass	500k	16.425M	16.642M	16.45M	16.692M
2462MHz	Pass	500k	16.425M	16.492M	16.45M	16.517M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.975M	18.916M	18.95M	18.941M
2437MHz	Pass	500k	18.975M	19.015M	18.375M	18.991M
2462MHz	Pass	500k	18.675M	18.916M	18.95M	18.941M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.85M	37.681M	37.75M	37.731M
2437MHz	Pass	500k	37.85M	37.781M	37.95M	37.781M
2452MHz	Pass	500k	37.75M	37.731M	37.9M	37.831M
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.775M	19M	18.875M	18.95M
2437MHz	Pass	500k	18.925M	19M	18.875M	18.95M
2462MHz	Pass	500k	18.9M	18.975M	18.65M	18.975M
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	37.95M	37.95M	37.55M	38M
2437MHz	Pass	500k	37.75M	38M	37.55M	38M
2452MHz	Pass	500k	37.75M	38M	37.95M	38.05M

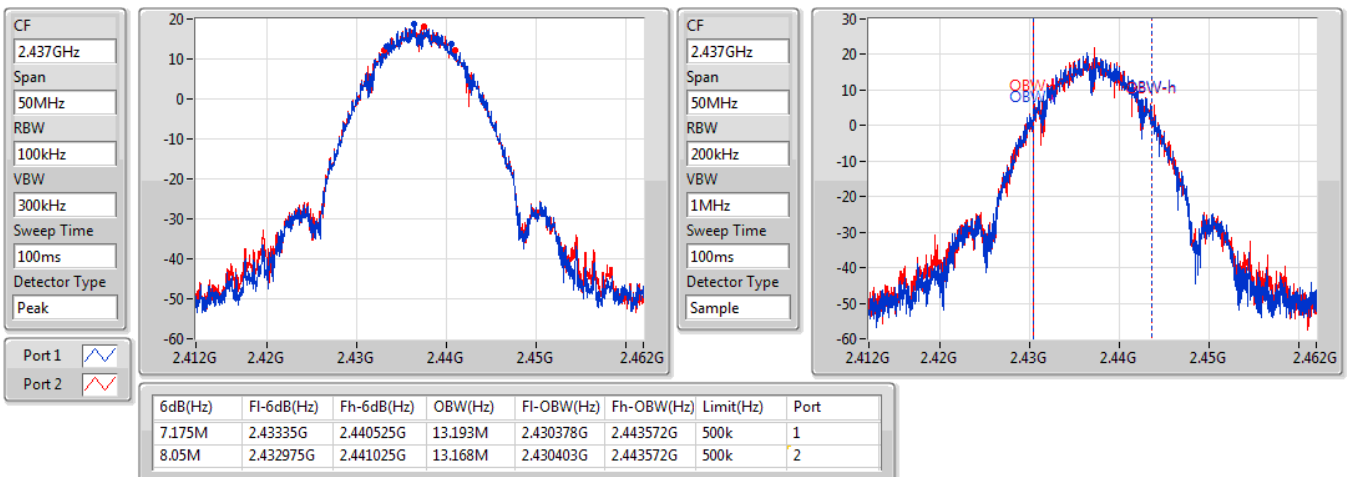
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

25/06/2019

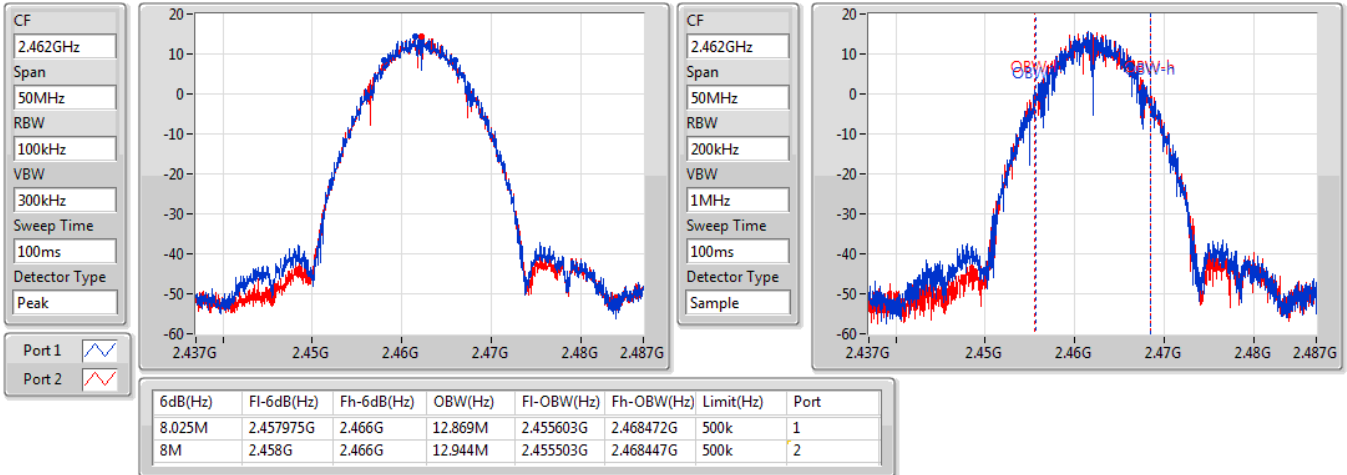

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

25/06/2019

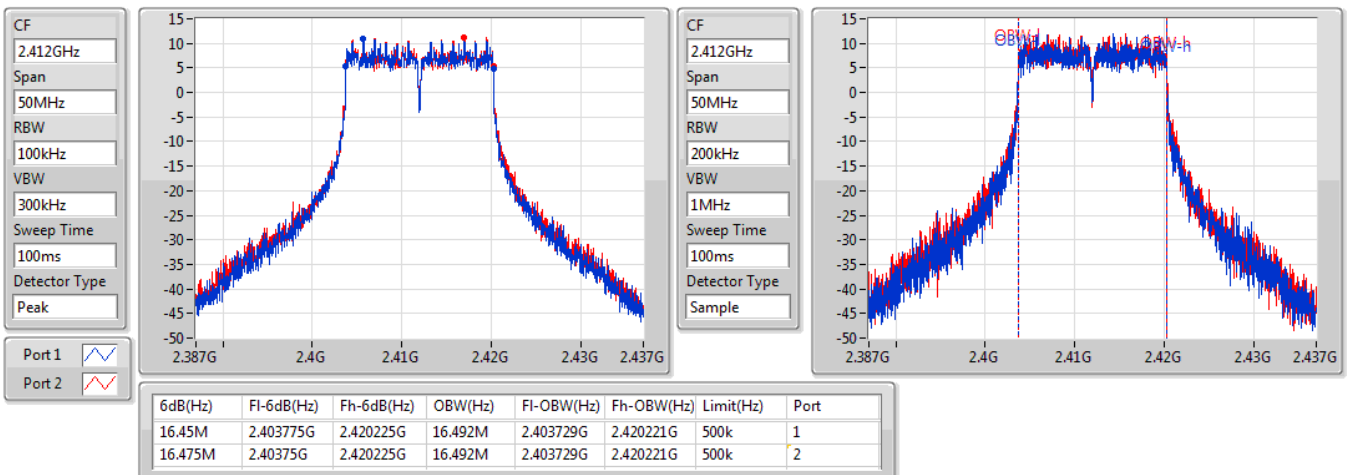


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

25/06/2019

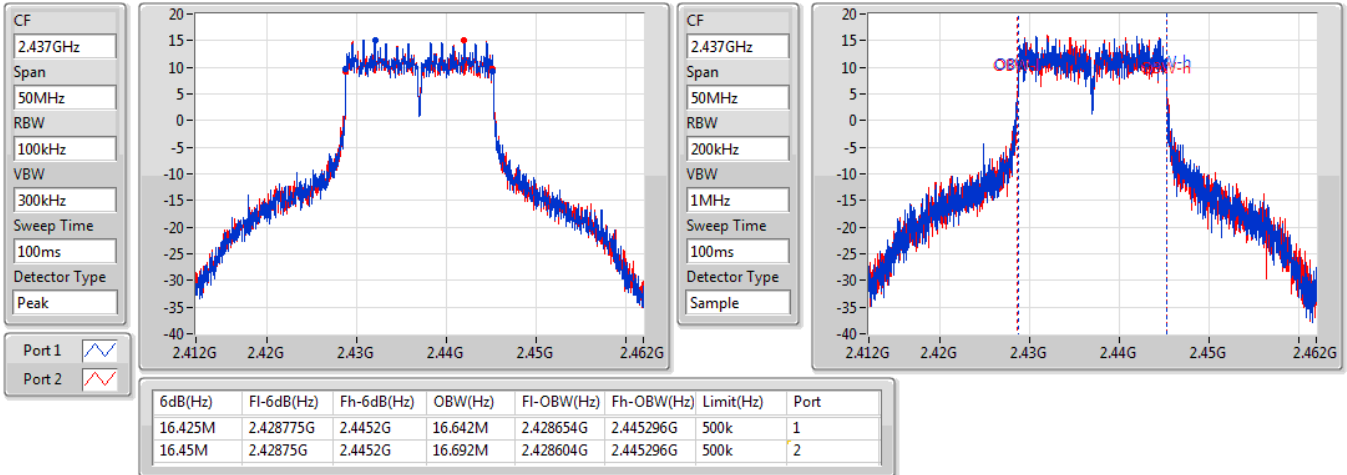

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

25/06/2019

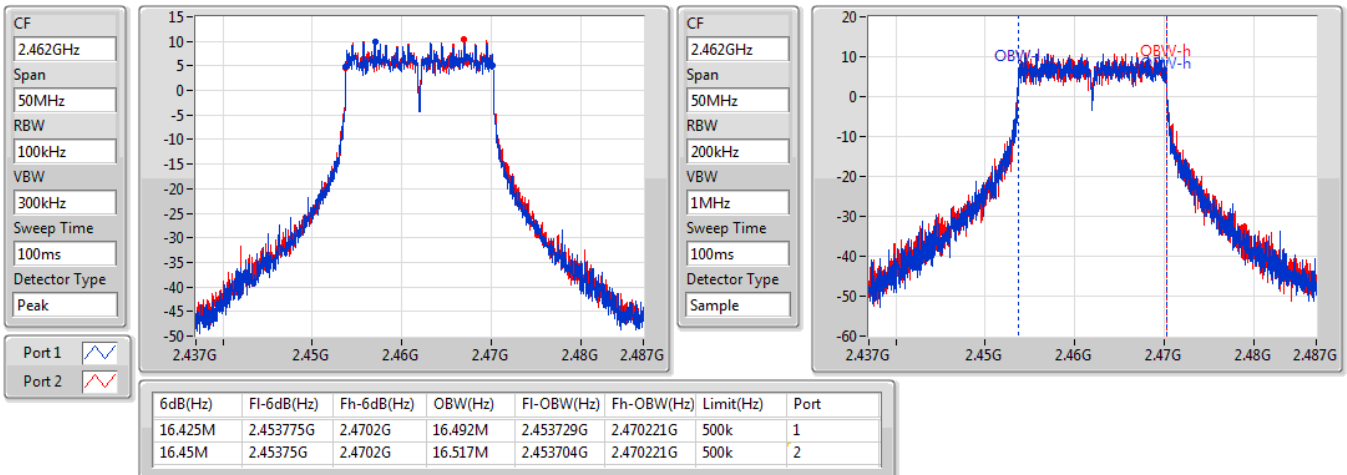


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

25/06/2019

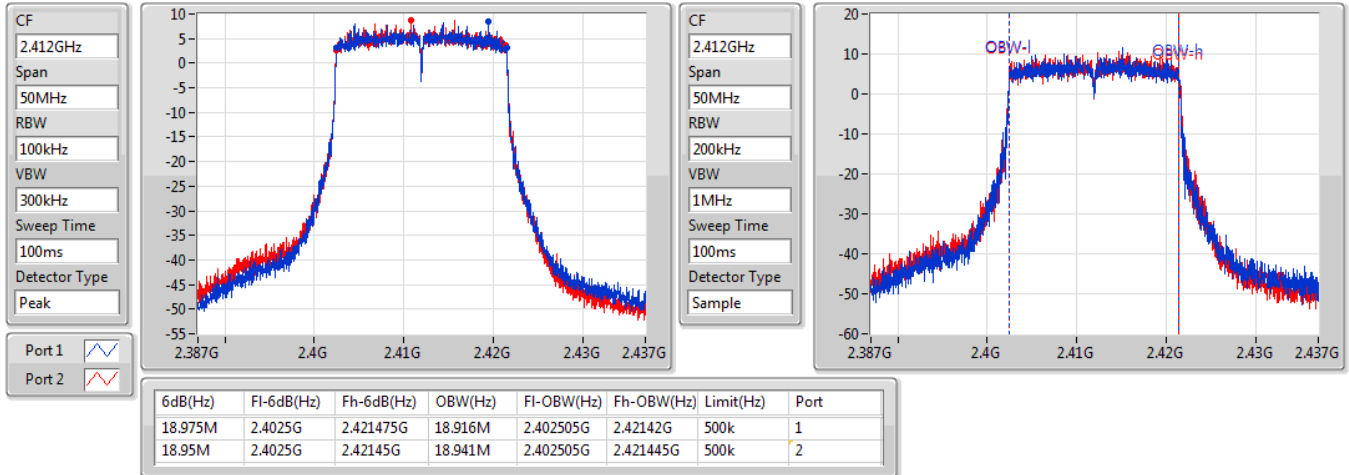

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

25/06/2019

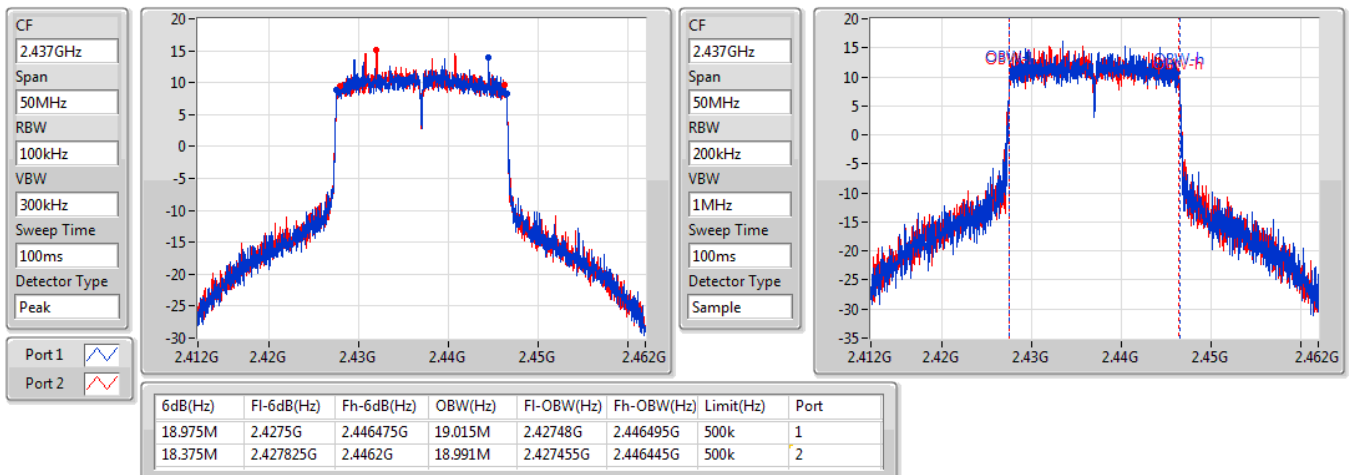


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

25/06/2019

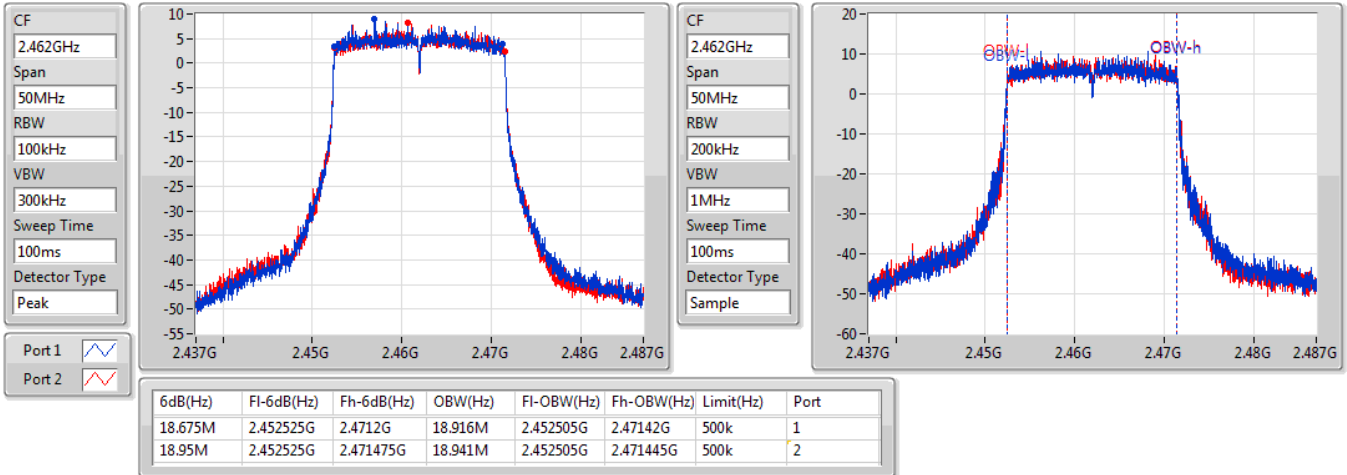

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

25/06/2019

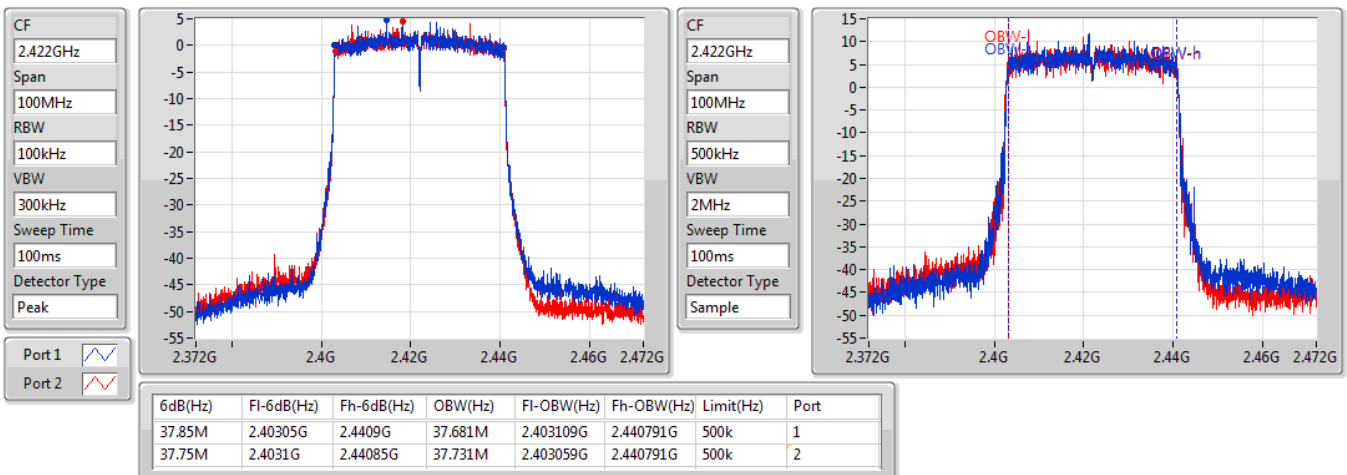


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

25/06/2019

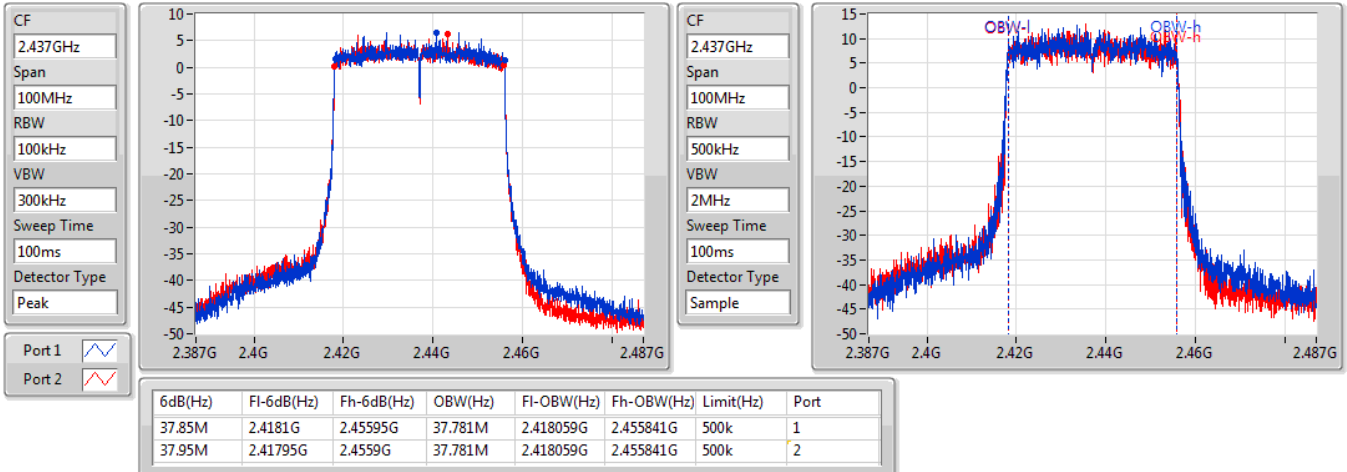

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

25/06/2019

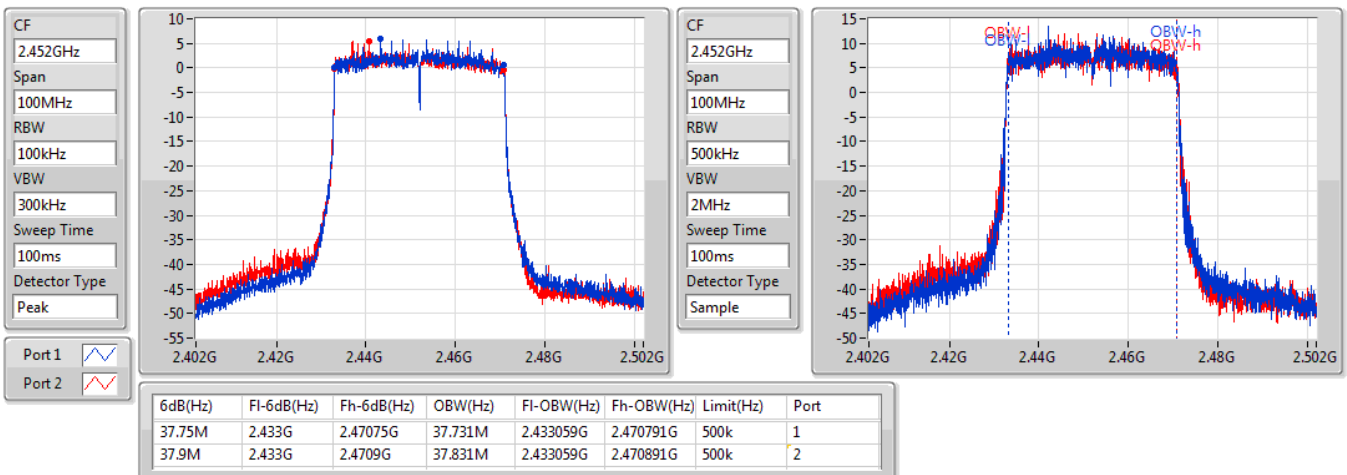


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2437MHz

25/06/2019

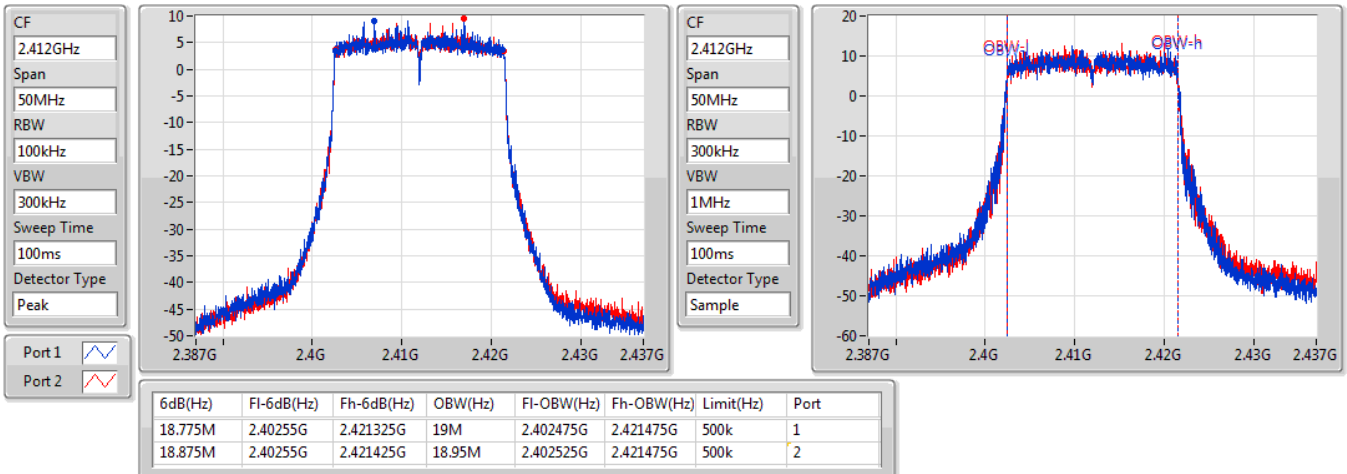

802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2452MHz

25/06/2019

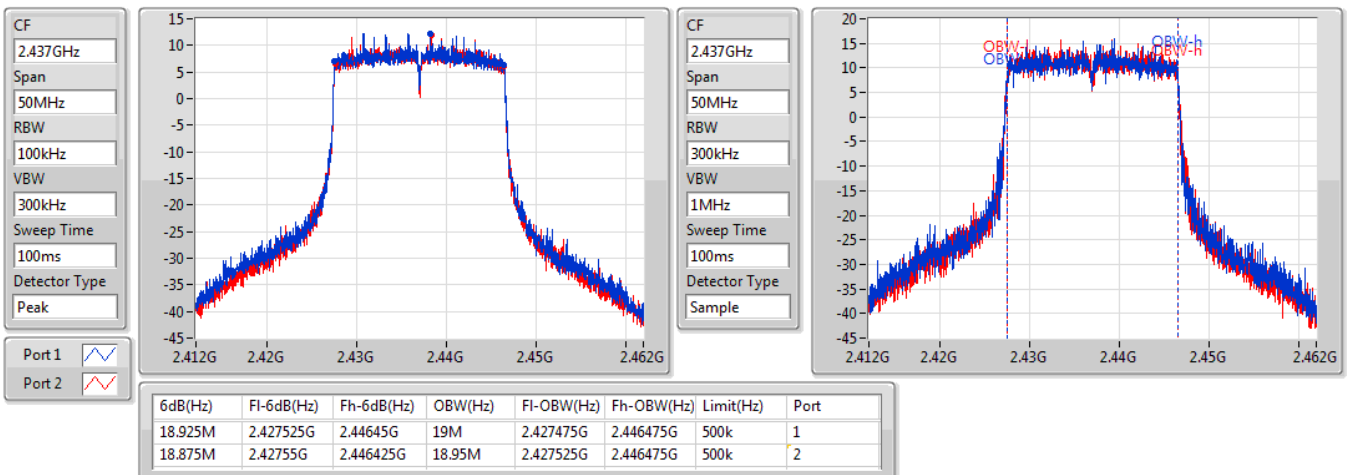


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2412MHz

26/06/2019

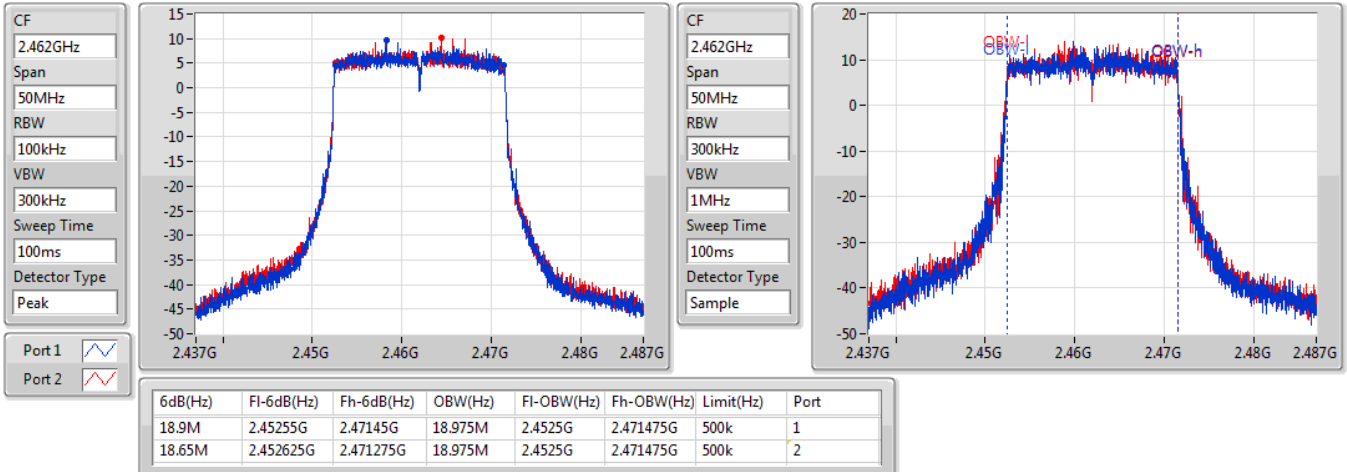

802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

26/06/2019

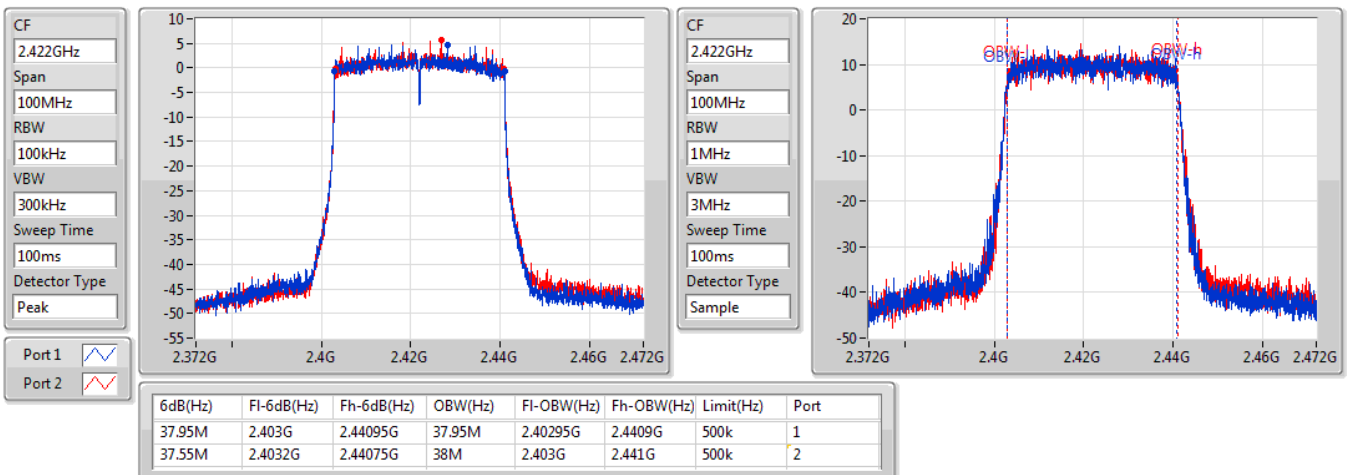


802.11ax HEW20-BF_Nss1,(MCS0)_2TX
EBW
2462MHz

26/06/2019

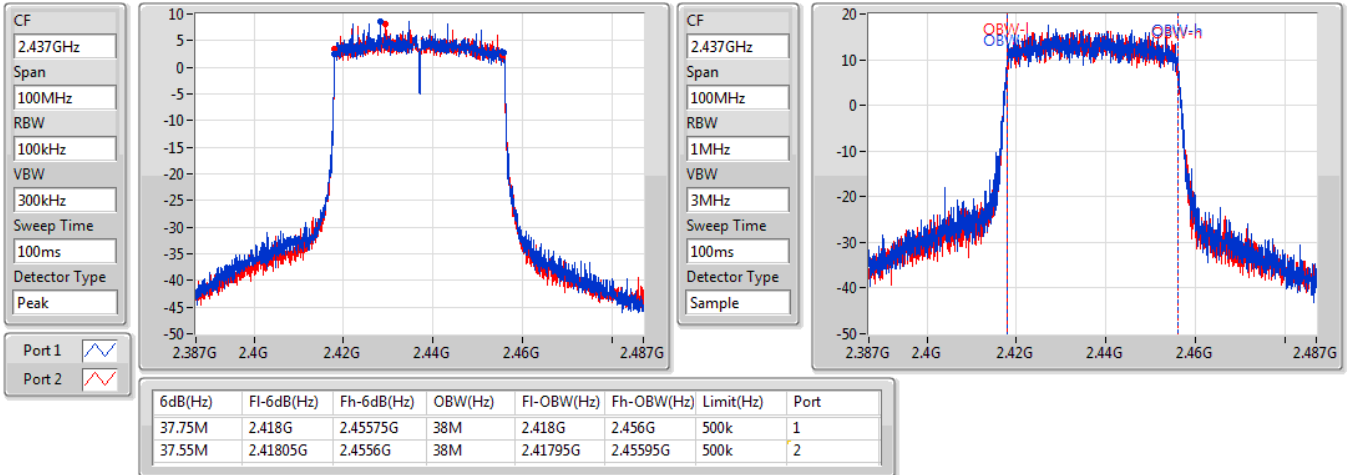

802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2422MHz

26/06/2019

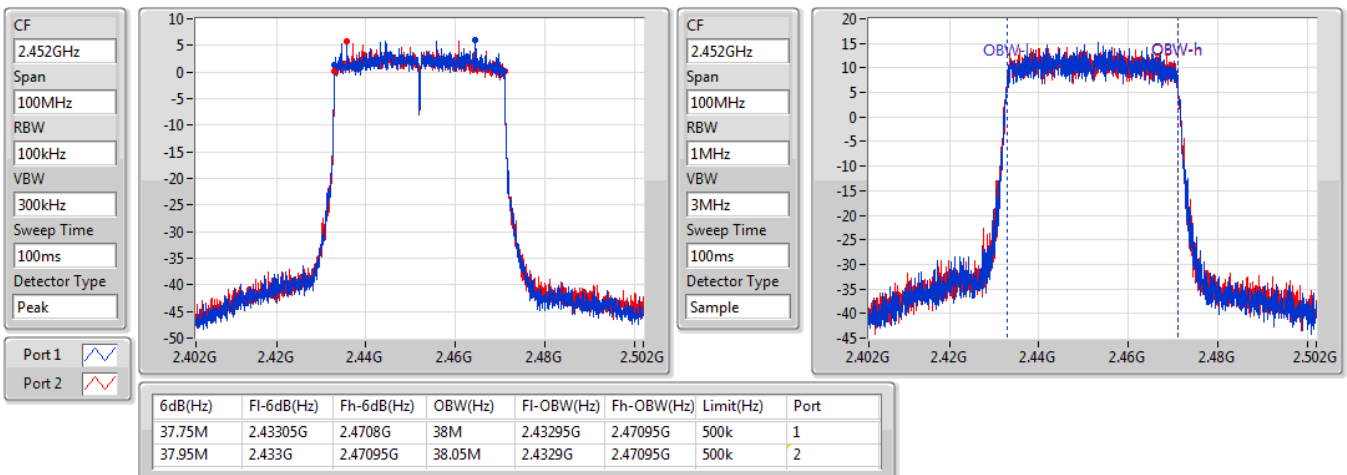


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2437MHz

26/06/2019


802.11ax HEW40-BF_Nss1,(MCS0)_2TX
EBW
2452MHz

26/06/2019





Average Power Result

Appendix C

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	29.72	0.93756
802.11g_Nss1,(6Mbps)_2TX	28.92	0.77983
802.11ax HEW20_Nss1,(MCS0)_2TX	29.21	0.83368
802.11ax HEW40_Nss1,(MCS0)_2TX	24.64	0.29107
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	26.35	0.43152
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.60	0.36308



Average Power Result

Appendix C

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	25.18	25.48	28.34	30.00
2417MHz	Pass	4.17	26.43	26.82	29.64	30.00
2437MHz	Pass	4.17	26.75	26.66	29.72	30.00
2457MHz	Pass	4.17	23.31	23.18	26.26	30.00
2462MHz	Pass	4.17	23.13	23.05	26.10	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	22.12	22.33	25.24	30.00
2417MHz	Pass	4.17	23.25	23.51	26.39	30.00
2437MHz	Pass	4.17	25.89	25.92	28.92	30.00
2457MHz	Pass	4.17	23.69	23.77	26.74	30.00
2462MHz	Pass	4.17	21.17	21.32	24.26	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	21.05	21.15	24.11	30.00
2417MHz	Pass	4.17	22.96	23.14	26.06	30.00
2437MHz	Pass	4.17	26.21	26.18	29.21	30.00
2457MHz	Pass	4.17	23.43	23.58	26.52	30.00
2462MHz	Pass	4.17	20.57	20.65	23.62	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.17	19.67	19.67	22.68	30.00
2427MHz	Pass	4.17	20.61	20.53	23.58	30.00
2437MHz	Pass	4.17	21.61	21.64	24.64	30.00
2447MHz	Pass	4.17	18.69	18.61	21.66	30.00
2452MHz	Pass	4.17	20.66	20.62	23.65	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	20.28	20.39	23.35	30.00
2417MHz	Pass	4.17	23.00	23.14	26.08	30.00
2437MHz	Pass	4.17	23.34	23.33	26.35	30.00
2457MHz	Pass	4.17	22.02	22.31	25.18	30.00
2462MHz	Pass	4.17	21.20	21.22	24.22	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.17	19.35	19.49	22.43	30.00
2427MHz	Pass	4.17	19.34	19.36	22.36	30.00
2437MHz	Pass	4.17	22.62	22.56	25.60	30.00
2447MHz	Pass	4.17	19.51	19.52	22.53	30.00
2452MHz	Pass	4.17	17.57	17.64	20.62	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	6.36
802.11g_Nss1,(6Mbps)_2TX	0.80
802.11ax HEW20_Nss1,(MCS0)_2TX	0.12
802.11ax HEW40_Nss1,(MCS0)_2TX	-6.74
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	5.08
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-1.50

RBW=3 kHz.

**Result**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	0.11	1.77	3.75	8.00
2437MHz	Pass	4.17	3.95	2.66	6.36	8.00
2462MHz	Pass	4.17	0.05	-0.18	2.40	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	-5.60	-5.29	-3.27	8.00
2437MHz	Pass	4.17	-0.43	-1.71	0.80	8.00
2462MHz	Pass	4.17	-6.18	-6.12	-3.62	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	-5.54	-5.51	-4.22	8.00
2437MHz	Pass	4.17	-0.91	-0.69	0.12	8.00
2462MHz	Pass	4.17	-6.81	-6.27	-3.70	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.17	-9.69	-9.56	-8.58	8.00
2437MHz	Pass	4.17	-7.31	-8.37	-6.74	8.00
2452MHz	Pass	4.17	-8.51	-7.95	-7.41	8.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.17	-0.15	-0.05	2.71	8.00
2437MHz	Pass	4.17	2.33	2.27	5.08	8.00
2462MHz	Pass	4.17	0.34	0.33	3.21	8.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.17	-4.30	-4.35	-1.50	8.00
2437MHz	Pass	4.17	-6.52	-6.10	-4.69	8.00
2452MHz	Pass	4.17	-11.50	-10.97	-9.62	8.00

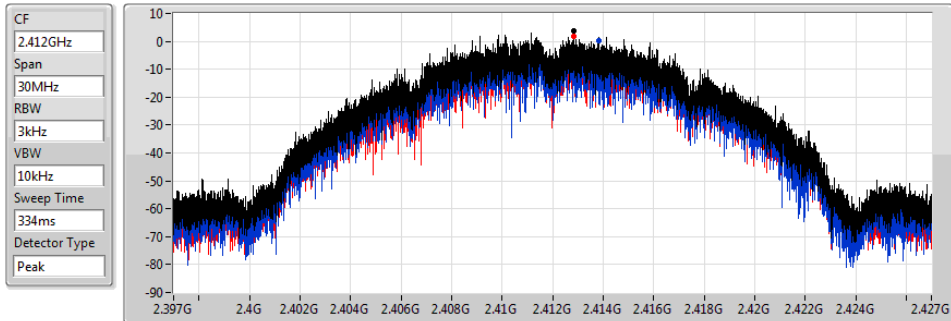
DG = Directional Gain; RBW=3 kHz;**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

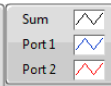
PSD

2412MHz

25/06/2019



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.75	3.75	0.11	1.77

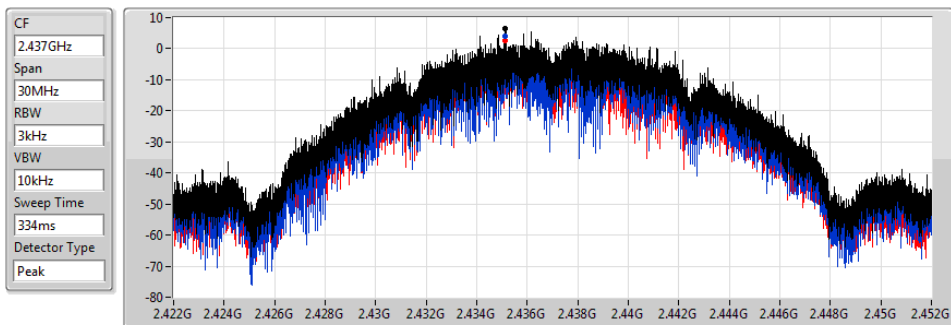


802.11b_Nss1,(1Mbps)_2TX

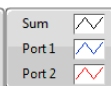
PSD

2437MHz

25/06/2019



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.36	6.36	3.95	2.66

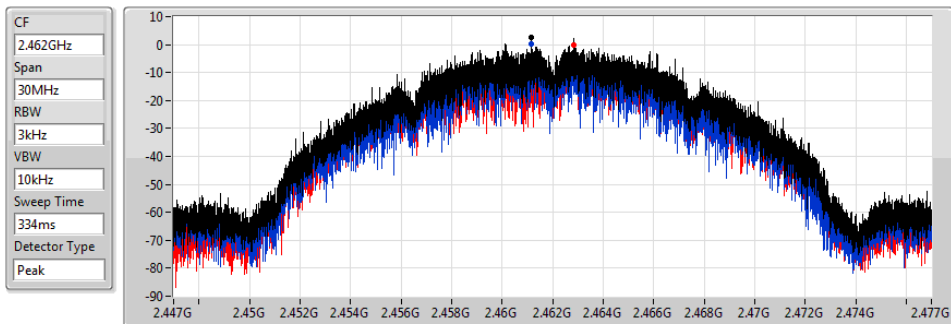


802.11b_Nss1,(1Mbps)_2TX

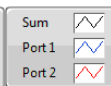
PSD

2462MHz

25/06/2019



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.40	2.40	0.05	-0.18

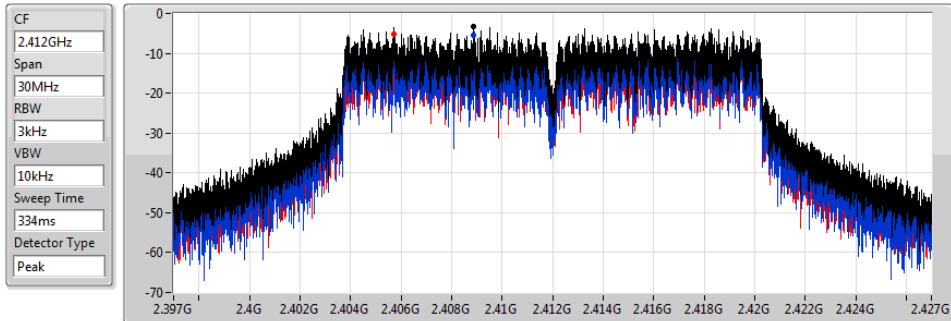


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

25/06/2019



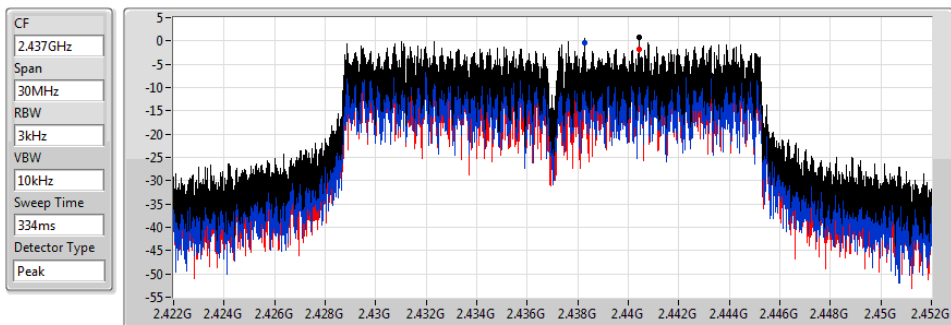
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.27	-3.27	-5.60	-5.29

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

25/06/2019



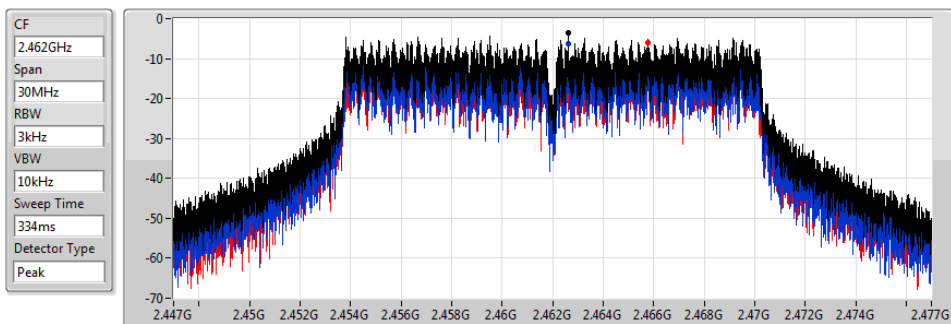
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
0.80	0.80	-0.43	-1.71

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

25/06/2019



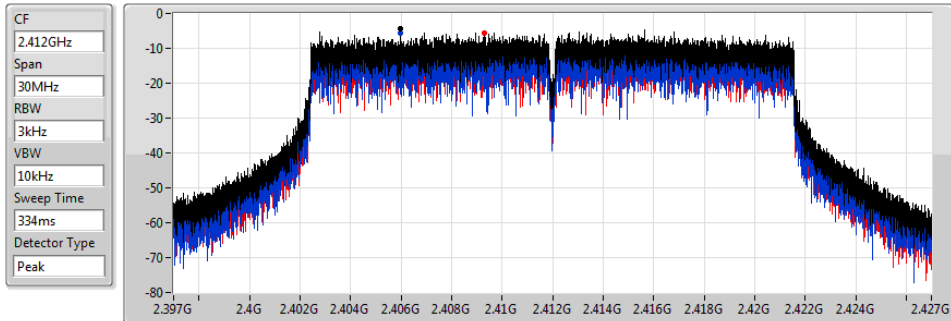
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-3.62	-3.62	-6.18	-6.12

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

25/06/2019



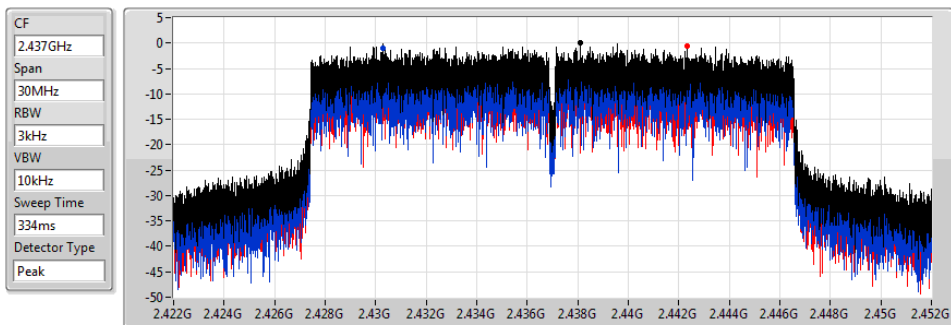
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.22	-4.22	-5.54	-5.51

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

25/06/2019



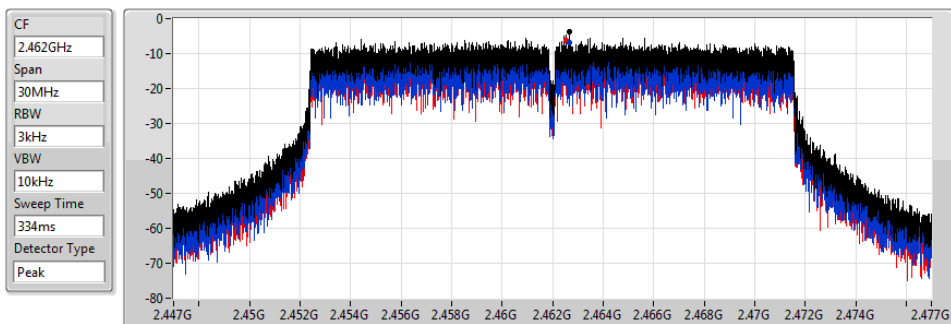
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.12	0.12	-0.91	-0.69

802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

25/06/2019



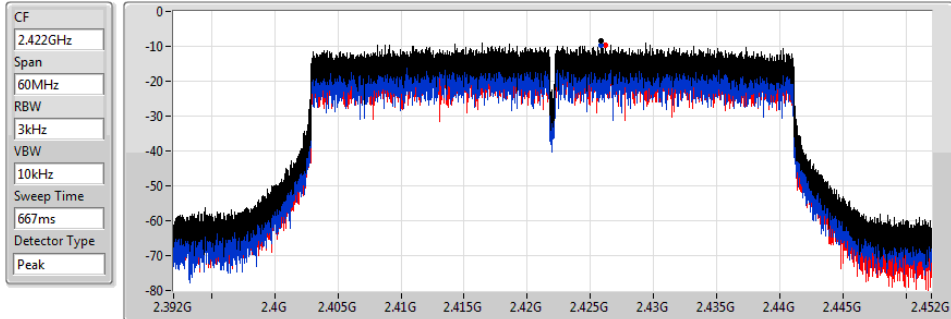
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.70	-3.70	-6.81	-6.27

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

25/06/2019



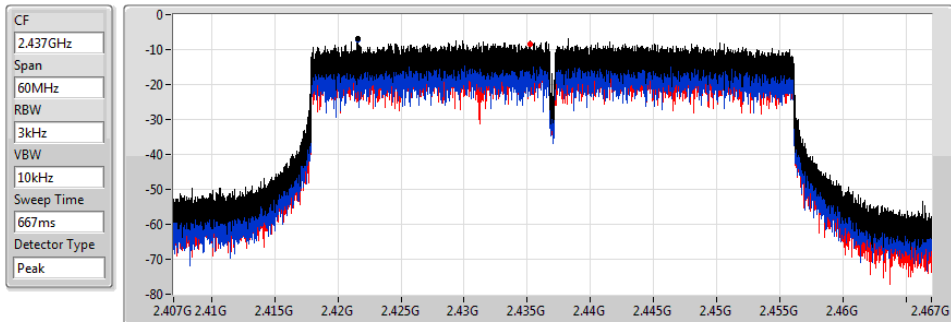
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-8.58	-8.58	-9.69	-9.56

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

25/06/2019



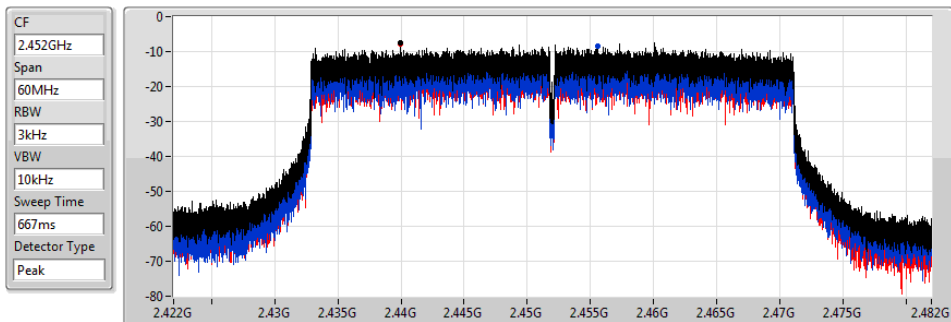
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-6.74	-6.74	-7.31	-8.37

802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

25/06/2019



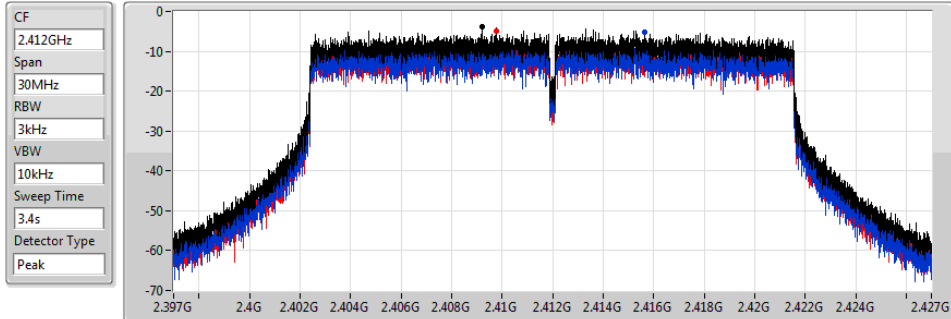
Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.41	-7.41	-8.51	-7.95

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2412MHz

26/06/2019



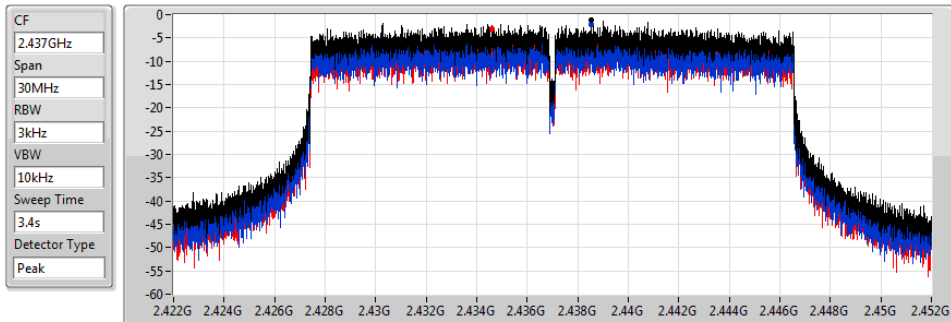
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-3.88	-3.88	-5.12	-5.01

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

26/06/2019



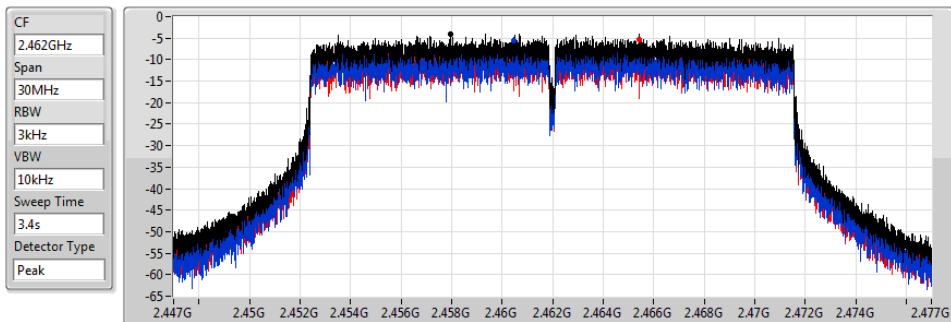
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-1.26	-1.26	-2.03	-2.99

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

PSD

2462MHz

26/06/2019



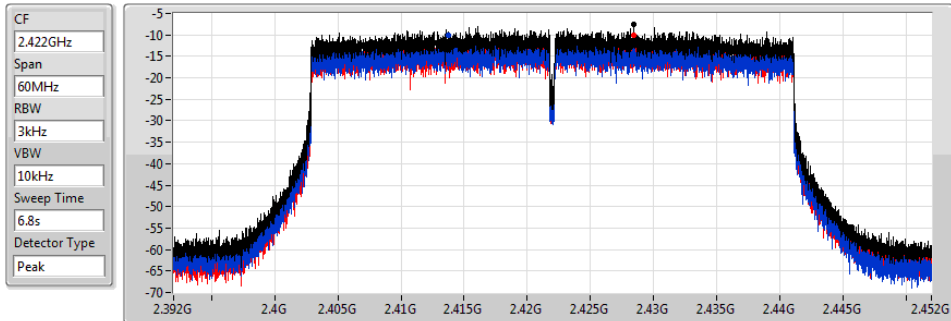
Sum	PD	Port 1	Port 2
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-4.05	-4.05	-5.68	-5.36

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2422MHz

26/06/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.63	-7.63	-9.97	-9.97

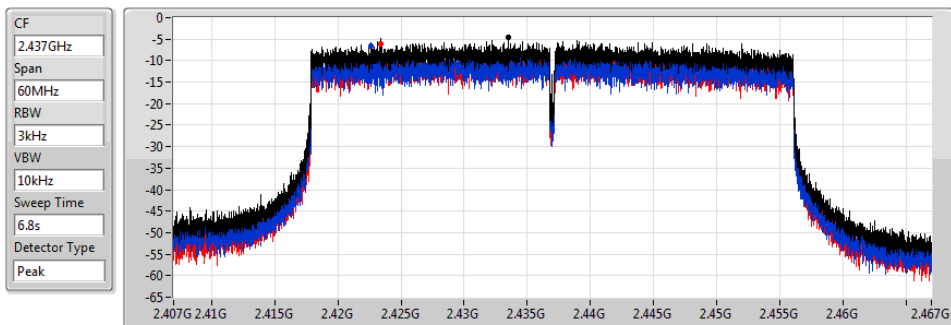
Sum	
Port 1	
Port 2	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2437MHz

26/06/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-4.69	-4.69	-6.52	-6.10

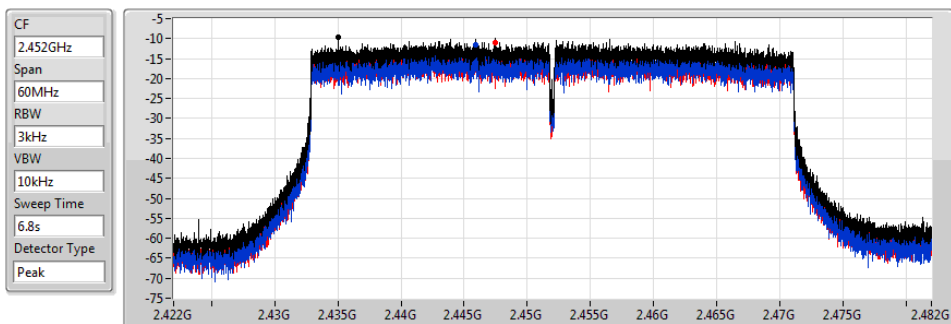
Sum	
Port 1	
Port 2	

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

PSD

2452MHz

26/06/2019



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.62	-9.62	-11.50	-10.97

Sum	
Port 1	
Port 2	



CSE(Non-restricted Band) Result

Appendix E

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)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.4372G	19.35	-10.65	2.14244G	-53.06	2.39908G	-35.65	2.4875G	-51.15	7.23514G	-41.26	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43198G	15.29	-14.71	2.11156G	-51.60	2.39956G	-17.51	2.48932G	-48.67	17.69795G	-45.37	2
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.442G	15.06	-14.94	2.30292G	-52.45	2.39978G	-28.19	2.50098G	-51.31	24.84828G	-44.75	2
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.44196G	7.07	-22.93	874.15M	-52.52	2.39996G	-33.21	2.48826G	-48.94	24.86258G	-43.68	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	Pass	2.44196G	12.16	-17.84	80.1M	-42.39	2.39978G	-28.58	2.50912G	-41.13	24.9129G	-37.36	1
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	2.43198G	8.67	-21.33	85.53M	-42.38	2.39856G	-33.54	2.48814G	-39.45	23.21349G	-37.15	1

Result

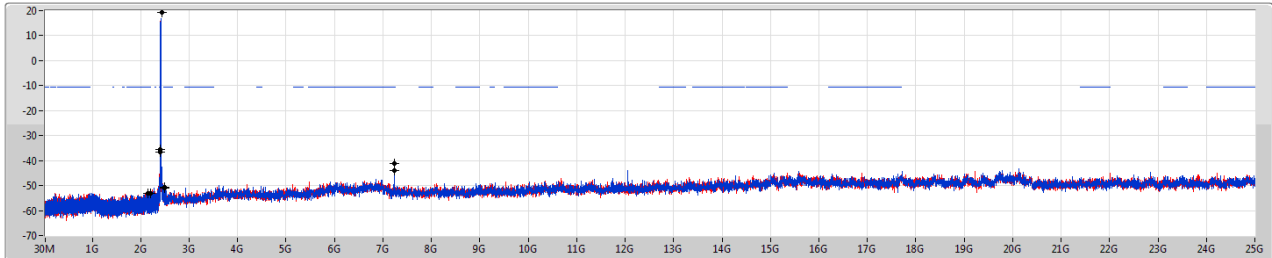
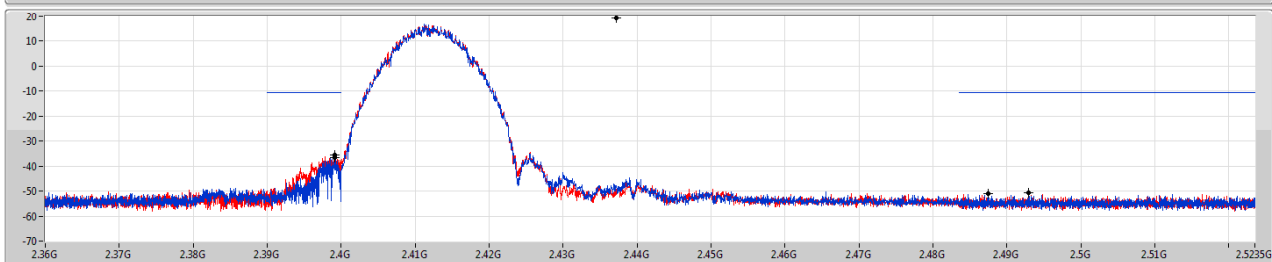
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4372G	19.35	-10.65	2.19777G	-53.15	2.39912G	-36.58	2.49288G	-50.56	7.23514G	-43.81	1
2412MHz	Pass	2.4372G	19.35	-10.65	2.14244G	-53.06	2.39908G	-35.65	2.4875G	-51.15	7.23514G	-41.26	2
2437MHz	Pass	2.4372G	19.35	-10.65	2.16282G	-52.69	2.39954G	-48.34	2.48562G	-48.35	24.80333G	-44.41	1
2437MHz	Pass	2.4372G	19.35	-10.65	2.3035G	-51.50	2.3913G	-48.29	2.48572G	-48.59	17.08265G	-45.40	2
2462MHz	Pass	2.4372G	19.35	-10.65	837.35M	-53.17	2.39098G	-51.45	2.48846G	-45.42	24.15713G	-44.29	1
2462MHz	Pass	2.4372G	19.35	-10.65	2.12176G	-52.58	2.39692G	-50.49	2.49046G	-45.78	24.95505G	-44.75	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	15.29	-14.71	2.1835G	-52.07	2.3986G	-22.29	2.48608G	-50.38	24.85109G	-45.01	1
2412MHz	Pass	2.43198G	15.29	-14.71	2.11156G	-51.60	2.39956G	-17.51	2.48932G	-48.67	17.69795G	-45.37	2
2437MHz	Pass	2.43198G	15.29	-14.71	2.15846G	-50.91	2.39478G	-36.81	2.51422G	-32.07	24.81457G	-45.02	1
2437MHz	Pass	2.43198G	15.29	-14.71	2.15991G	-49.70	2.39982G	-37.97	2.50924G	-24.68	15.03448G	-44.02	2
2462MHz	Pass	2.43198G	15.29	-14.71	2.30408G	-50.36	2.3944G	-49.95	2.48374G	-41.97	24.26389G	-45.12	1
2462MHz	Pass	2.43198G	15.29	-14.71	2.30903G	-51.57	2.39662G	-49.62	2.48354G	-39.91	15.04853G	-44.60	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	15.06	-14.94	2.12642G	-51.77	2.39996G	-28.64	2.48916G	-51.59	17.67547G	-44.46	1
2412MHz	Pass	2.442G	15.06	-14.94	2.30292G	-52.45	2.39978G	-28.19	2.50098G	-51.31	24.84828G	-44.75	2
2437MHz	Pass	2.442G	15.06	-14.94	2.14826G	-51.04	2.39992G	-38.04	2.48902G	-44.66	17.69514G	-43.79	1
2437MHz	Pass	2.442G	15.06	-14.94	2.1302G	-50.60	2.39972G	-36.93	2.48368G	-44.48	24.50552G	-45.07	2
2462MHz	Pass	2.442G	15.06	-14.94	2.30583G	-51.86	2.39374G	-51.08	2.4847G	-42.63	15.02605G	-44.65	1
2462MHz	Pass	2.442G	15.06	-14.94	744.15M	-52.34	2.39252G	-51.45	2.48488G	-44.70	17.22594G	-44.32	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44196G	7.07	-22.93	2.13337G	-52.94	2.39992G	-33.99	2.50034G	-48.26	24.89623G	-45.44	1
2422MHz	Pass	2.44196G	7.07	-22.93	874.15M	-52.52	2.39996G	-33.21	2.48826G	-48.94	24.86258G	-43.68	2
2437MHz	Pass	2.44196G	7.07	-22.93	2.30998G	-50.73	2.39816G	-39.27	2.48382G	-43.75	24.87099G	-45.27	1
2437MHz	Pass	2.44196G	7.07	-22.93	2.30111G	-51.16	2.39768G	-37.26	2.48486G	-43.94	15.2878G	-44.34	2
2452MHz	Pass	2.44196G	7.07	-22.93	2.10388G	-52.69	2.39764G	-48.94	2.48494G	-42.26	24.19509G	-44.72	1
2452MHz	Pass	2.44196G	7.07	-22.93	2.30712G	-52.23	2.39888G	-47.66	2.48842G	-42.74	15.25695G	-44.50	2
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	12.16	-17.84	80.1M	-42.39	2.39978G	-28.58	2.50912G	-41.13	24.9129G	-37.36	1
2412MHz	Pass	2.44196G	12.16	-17.84	727.84M	-42.62	2.39982G	-29.70	2.51312G	-41.69	23.4126G	-36.82	2
2437MHz	Pass	2.44196G	12.16	-17.84	701.33M	-41.63	2.39626G	-41.64	2.49086G	-41.24	21.99377G	-37.86	1
2437MHz	Pass	2.44196G	12.16	-17.84	697.84M	-41.63	2.39838G	-41.70	2.4877G	-41.09	14.25342G	-37.56	2
2462MHz	Pass	2.44196G	12.16	-17.84	2.10749G	-42.16	2.39998G	-41.99	2.48762G	-40.04	23.38169G	-36.69	1
2462MHz	Pass	2.44196G	12.16	-17.84	729M	-41.97	2.39074G	-41.54	2.48468G	-38.97	21.99939G	-37.09	2
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43198G	8.67	-21.33	2.08585G	-42.36	2.39996G	-33.86	2.4941G	-41.99	21.58965G	-37.39	1
2422MHz	Pass	2.43198G	8.67	-21.33	514.91M	-41.56	2.39976G	-33.65	2.4847G	-41.73	21.94303G	-38.07	2
2437MHz	Pass	2.43198G	8.67	-21.33	85.53M	-42.38	2.39856G	-33.54	2.48814G	-39.45	23.21349G	-37.15	1
2437MHz	Pass	2.43198G	8.67	-21.33	2.07297G	-42.36	2.39944G	-34.82	2.4951G	-39.35	21.84206G	-36.83	2
2452MHz	Pass	2.43198G	8.67	-21.33	398.98M	-42.07	2.39124G	-41.93	2.4883G	-40.02	24.2007G	-37.08	1
2452MHz	Pass	2.43198G	8.67	-21.33	2.16772G	-41.96	2.39748G	-41.92	2.51042G	-40.65	23.22191G	-37.65	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2412MHz

25/06/2019

Port 1
Port 2RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

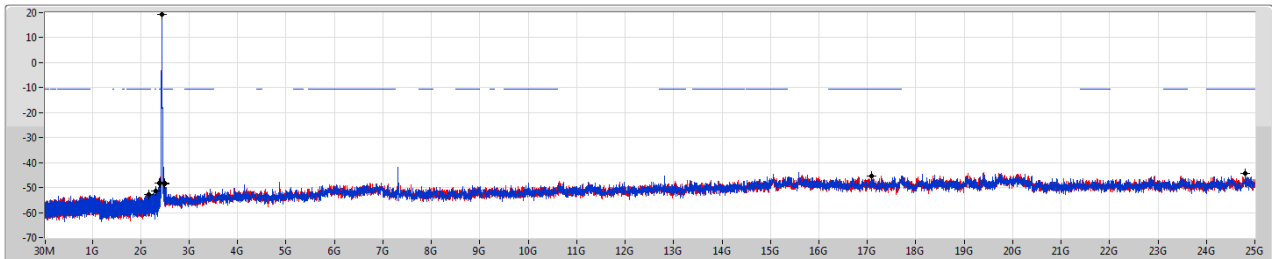
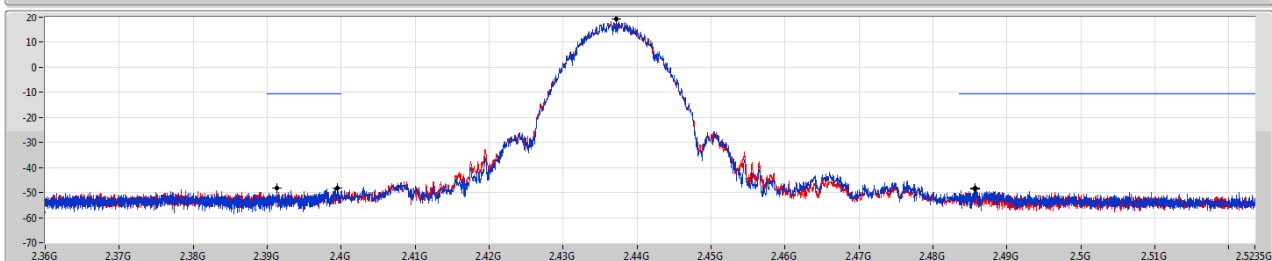
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
24372G	19.35	-10.65	2.19777G	-53.15	2.39912G	-36.58	2.49288G	-50.56	7.23514G	-43.81	1
24372G	19.35	-10.65	2.14244G	-53.06	2.39908G	-35.65	2.4875G	-51.15	7.23514G	-41.26	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2437MHz

25/06/2019

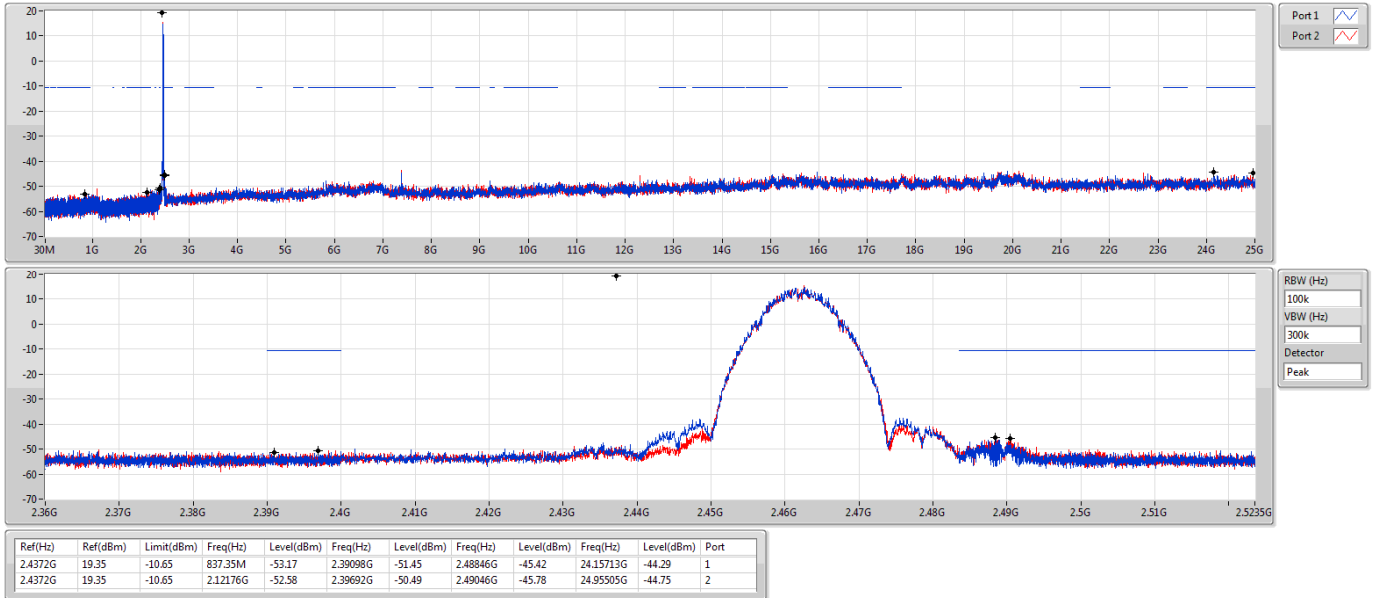
Port 1
Port 2RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
24372G	19.35	-10.65	2.16282G	-52.69	2.39954G	-48.34	2.48562G	-48.35	24.80333G	-44.41	1
24372G	19.35	-10.65	2.3035G	-51.50	2.3913G	-48.29	2.48572G	-48.59	17.08265G	-45.40	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

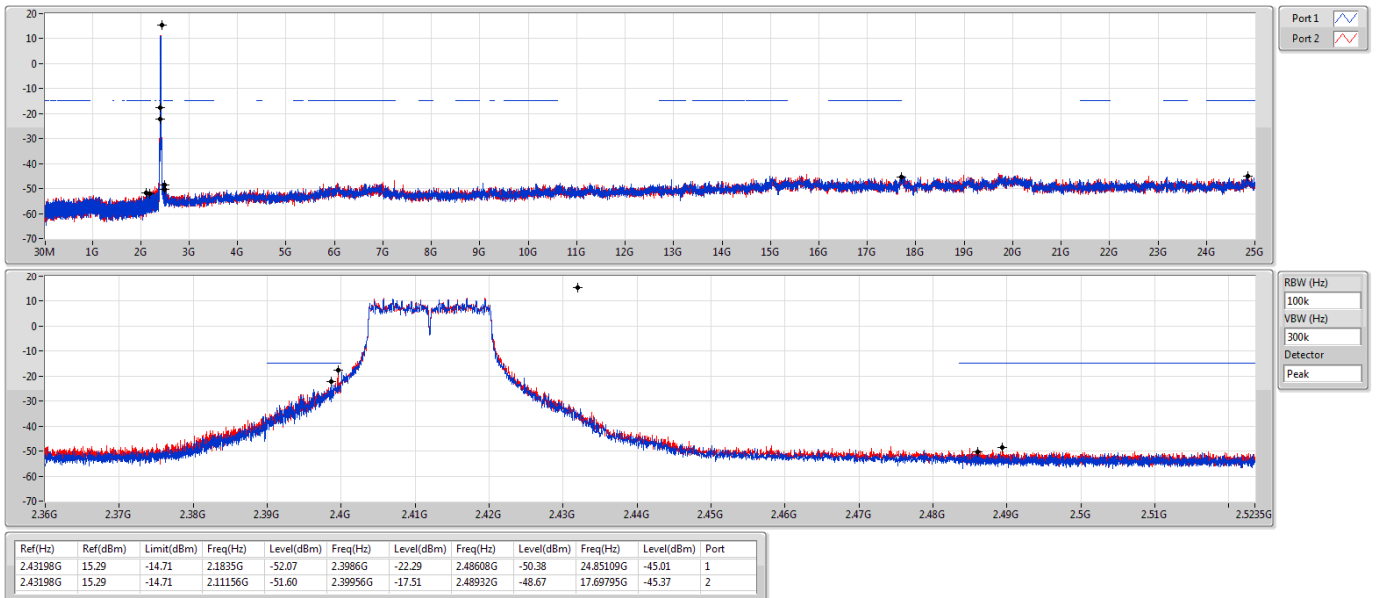
2462MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

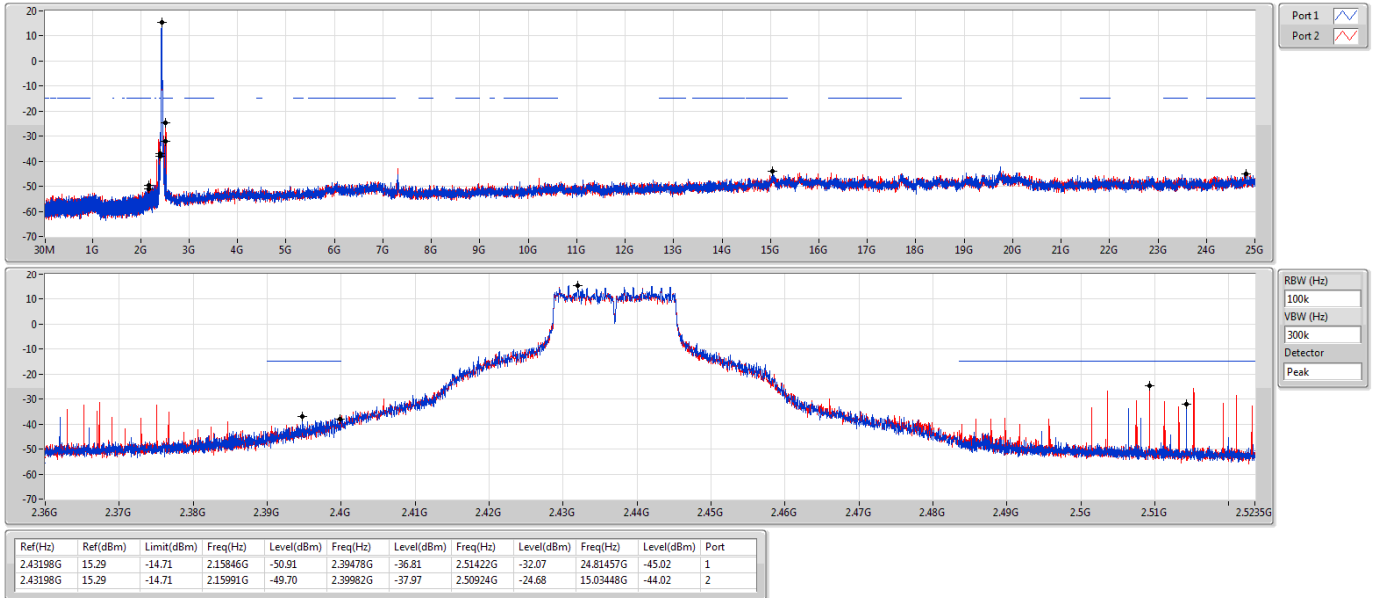
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

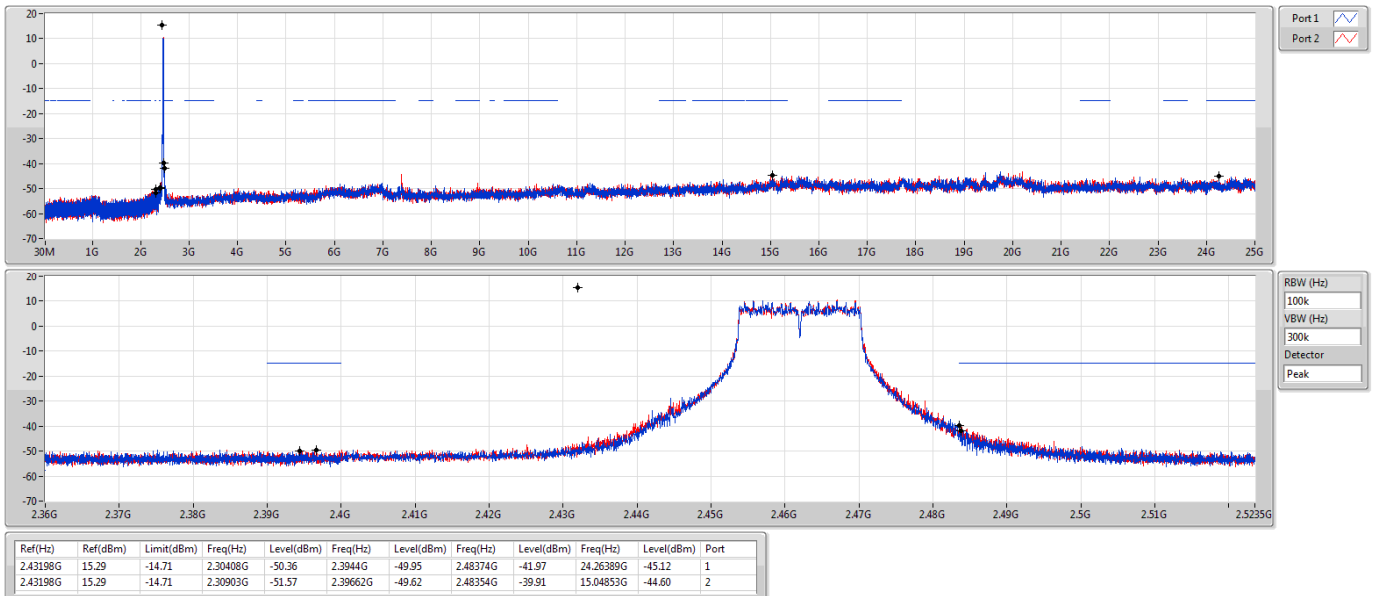
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

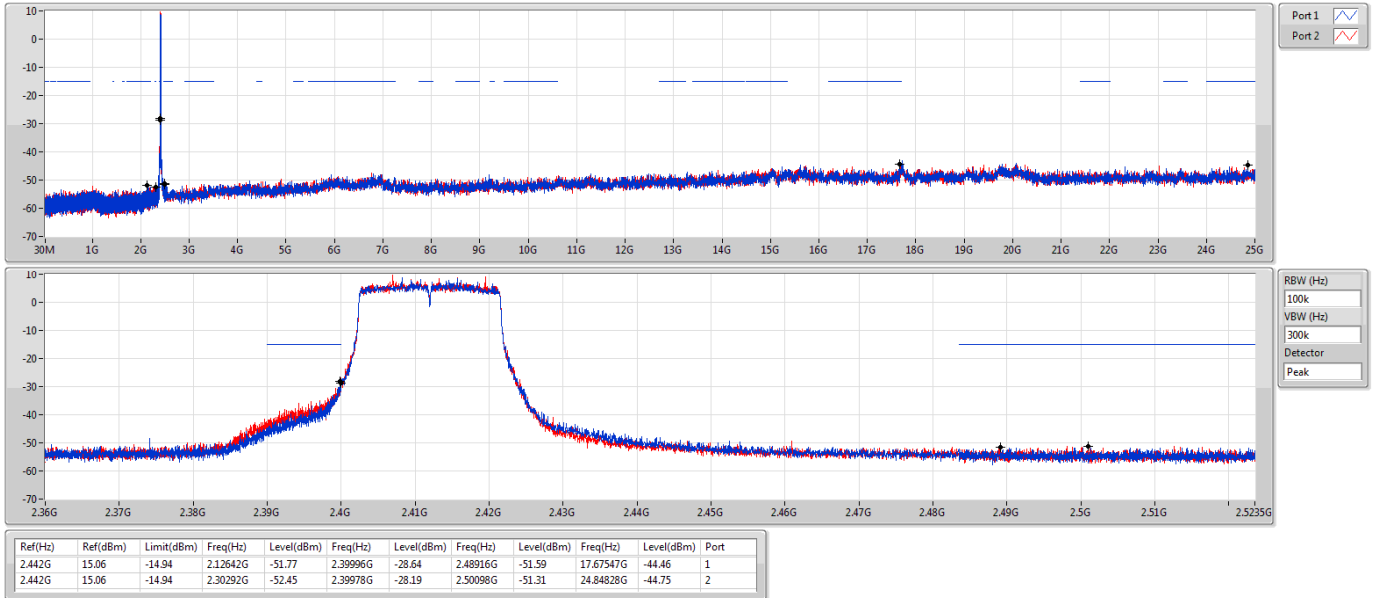
2462MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

CSE NdB

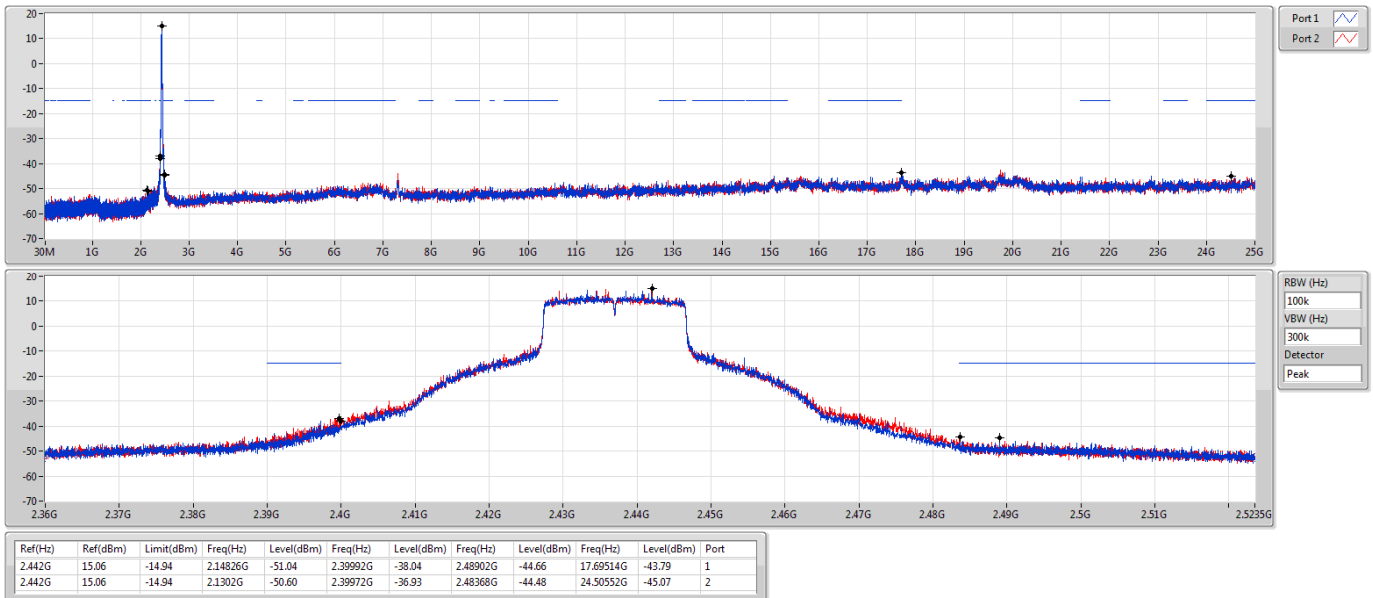
2412MHz



802.11ax HEW20_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

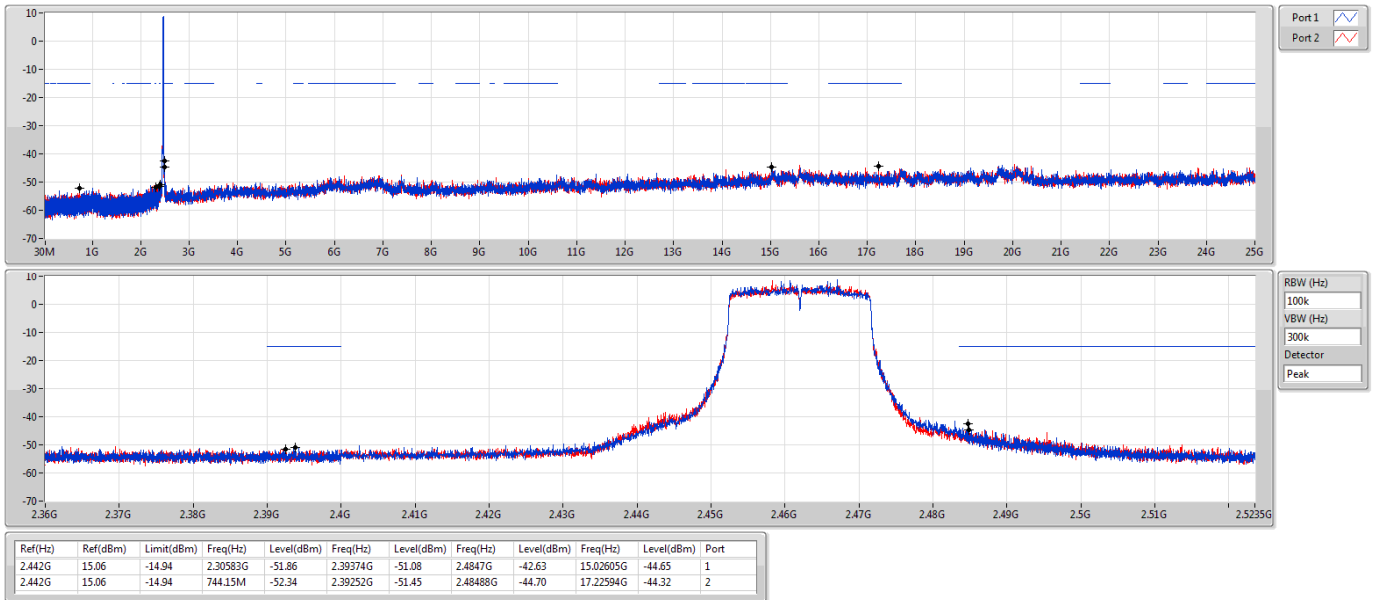


802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz

CSE NdB

25/06/2019

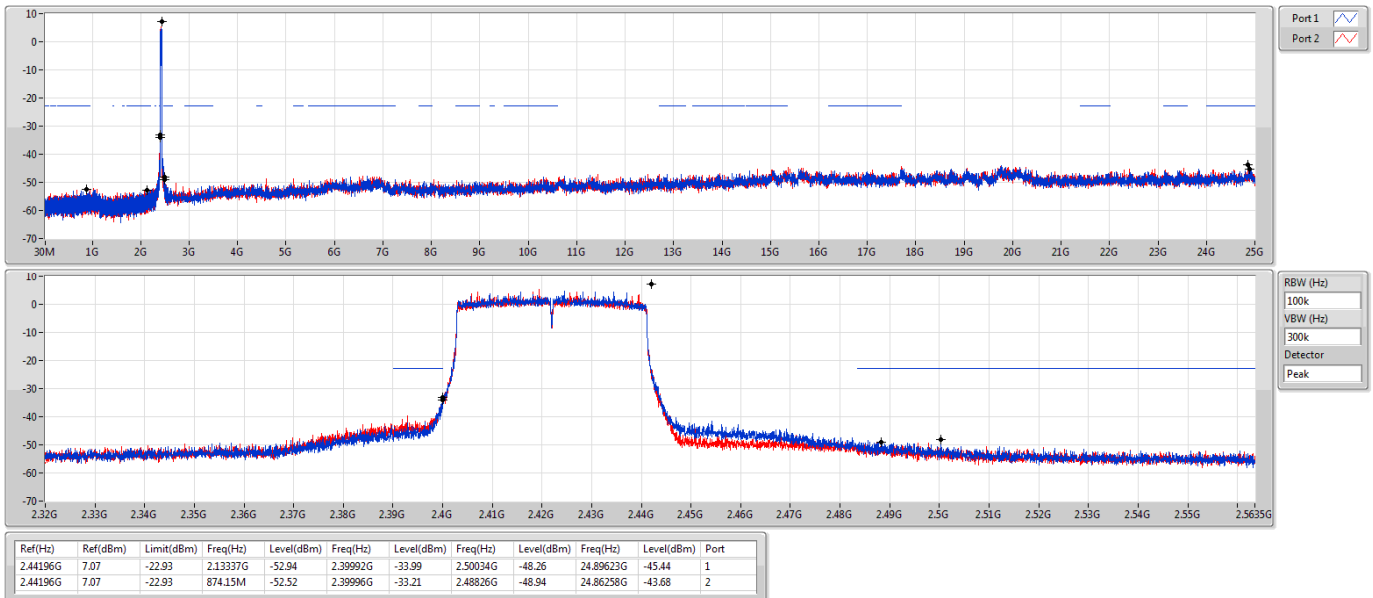


802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz

CSE NdB

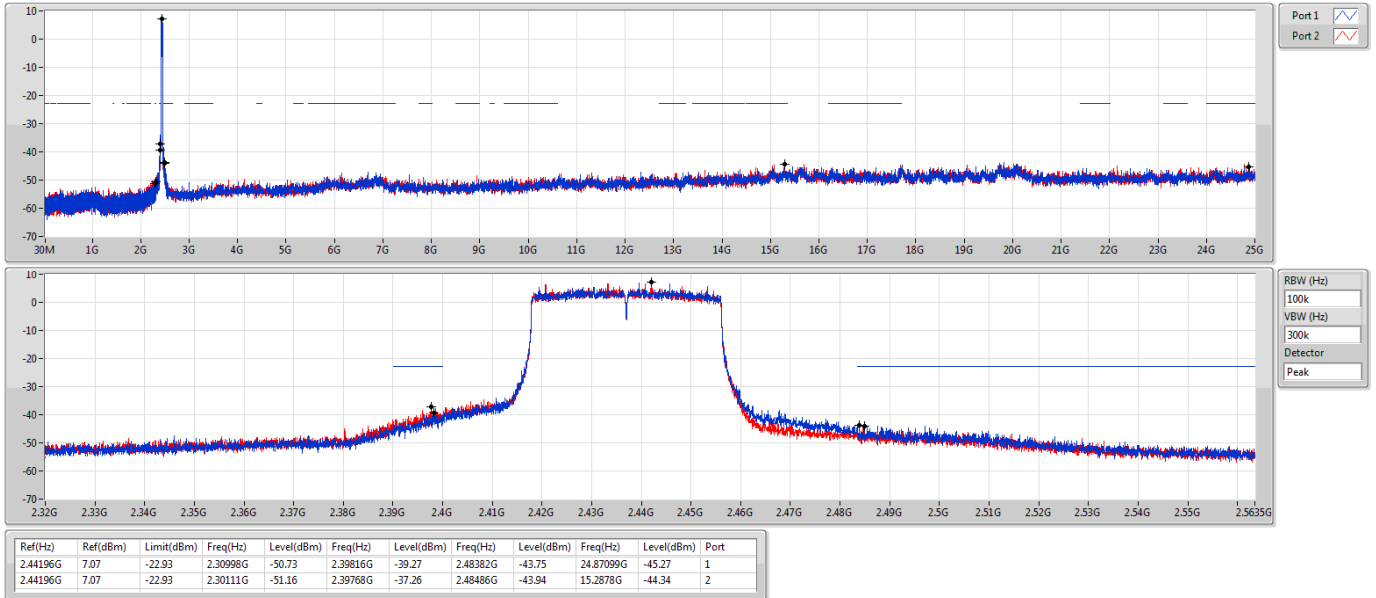
25/06/2019



802.11ax HEW40_Nss1,(MCS0)_2TX

CSE NdB

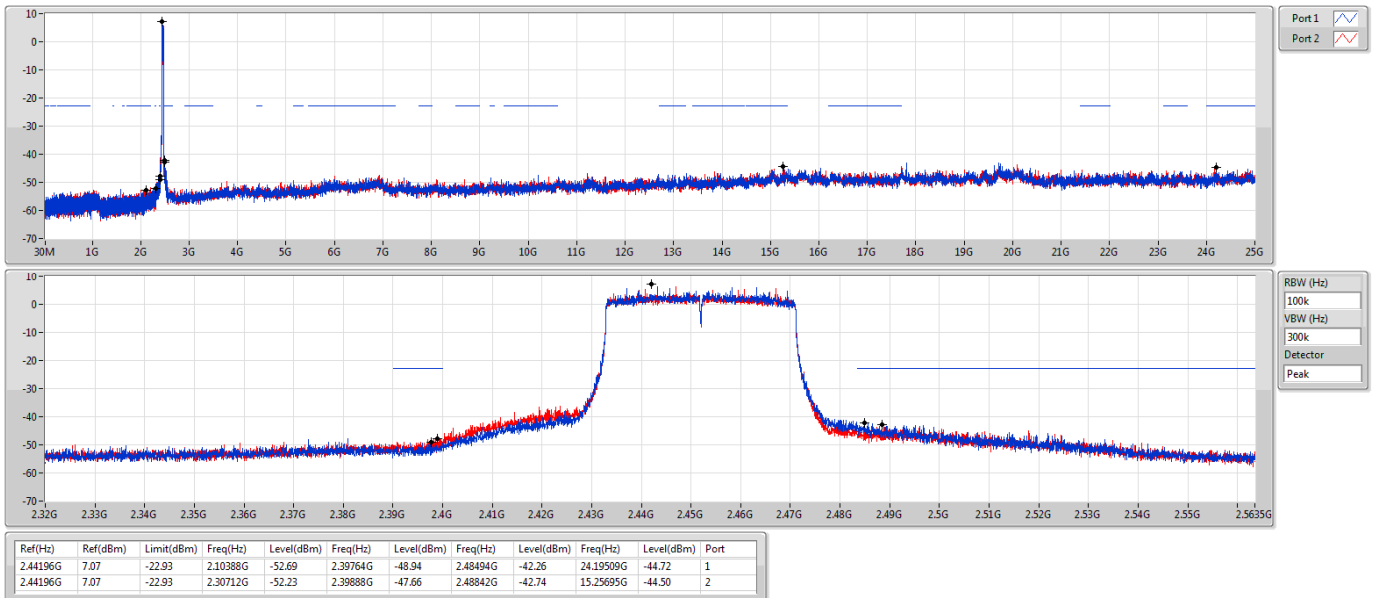
2437MHz



802.11ax HEW40_Nss1,(MCS0)_2TX

CSE NdB

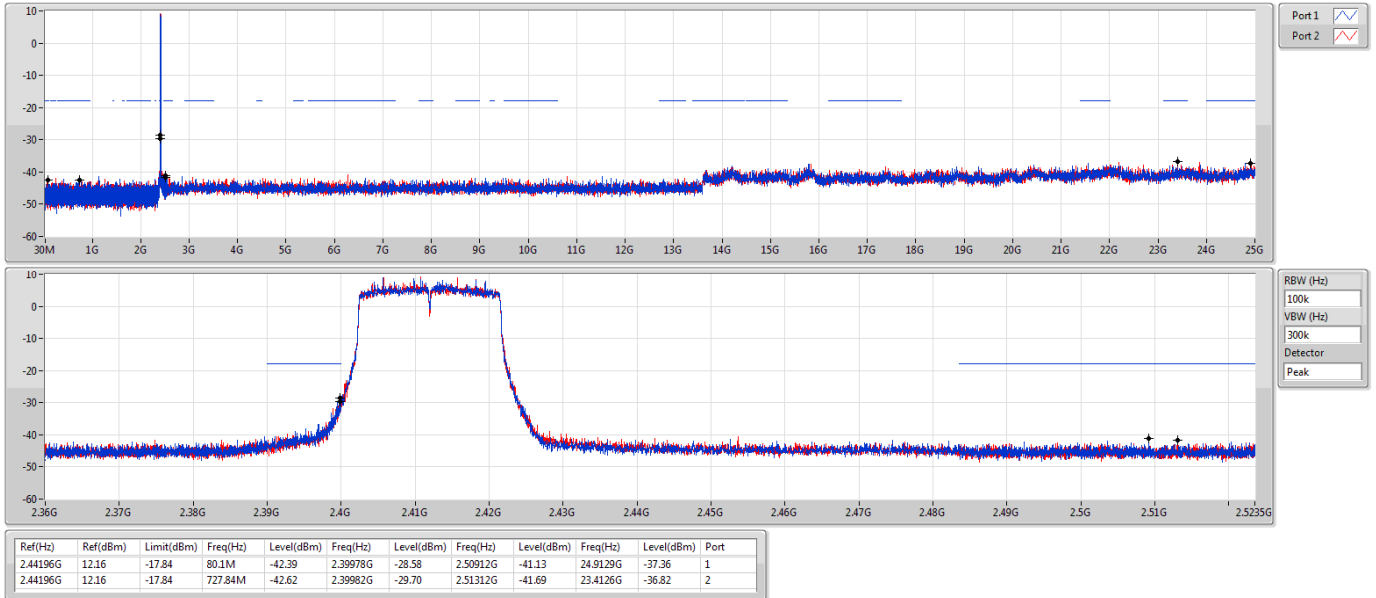
2452MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

CSE NdB

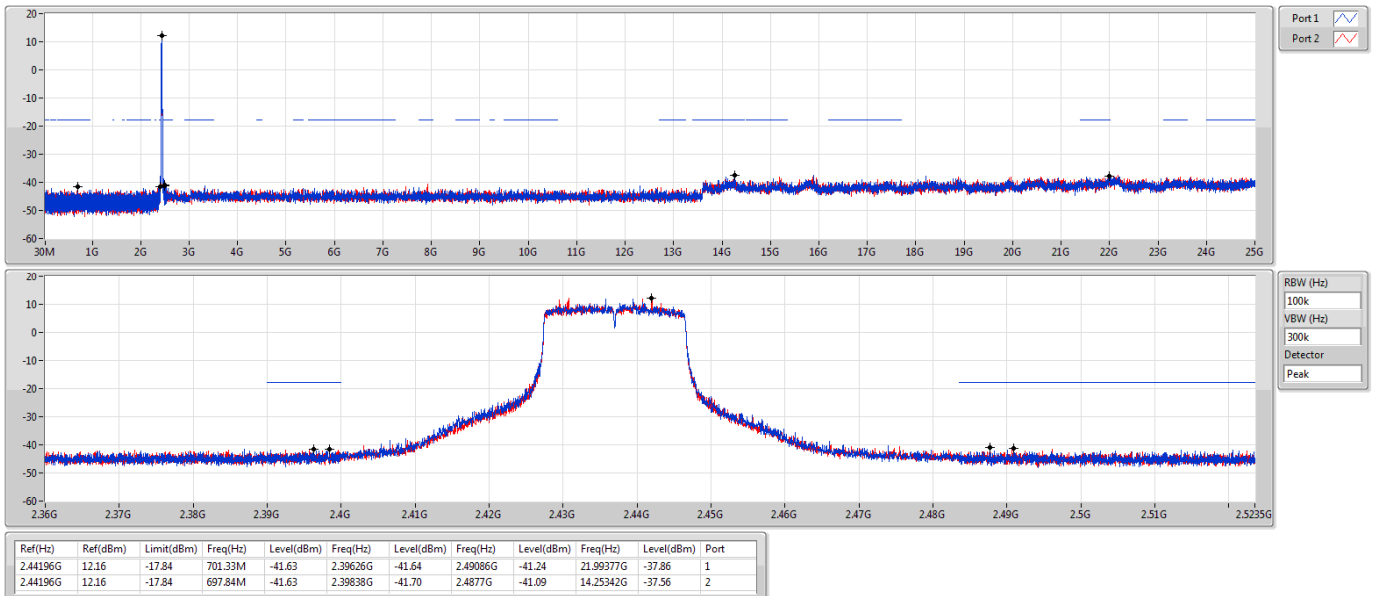
2412MHz



802.11ax HEW20-BF_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

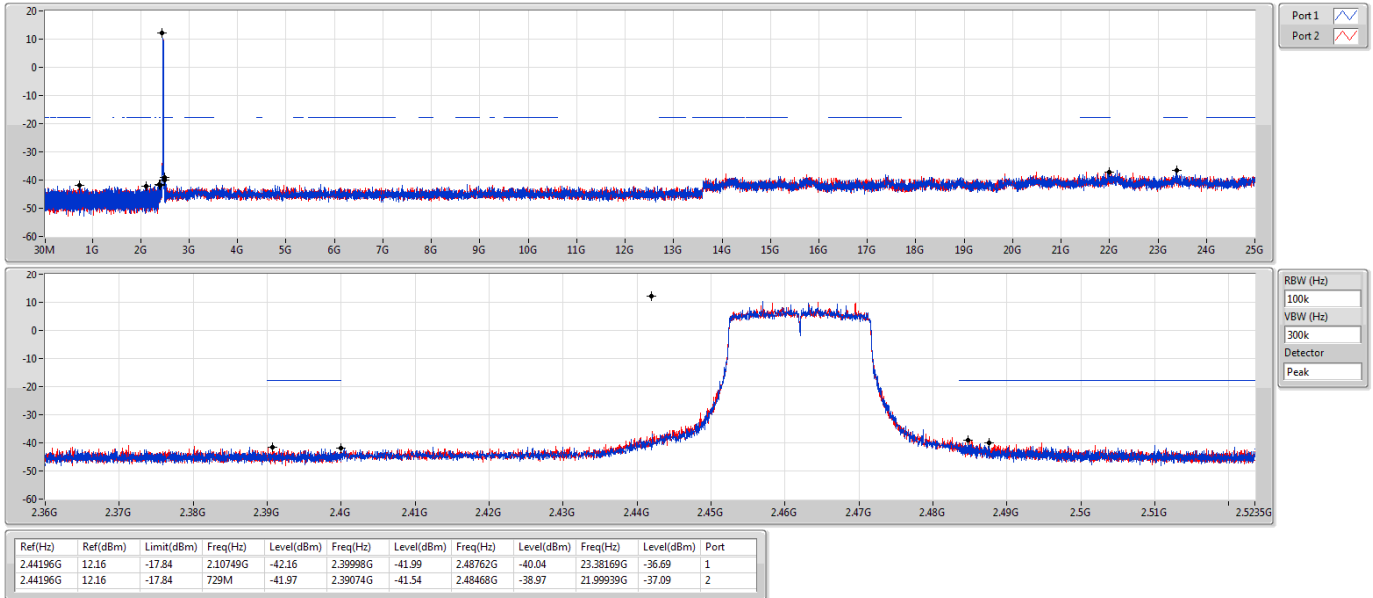


802.11ax HEW20-BF_Nss1,(MCS0)_2TX

2462MHz

CSE NdB

26/06/2019

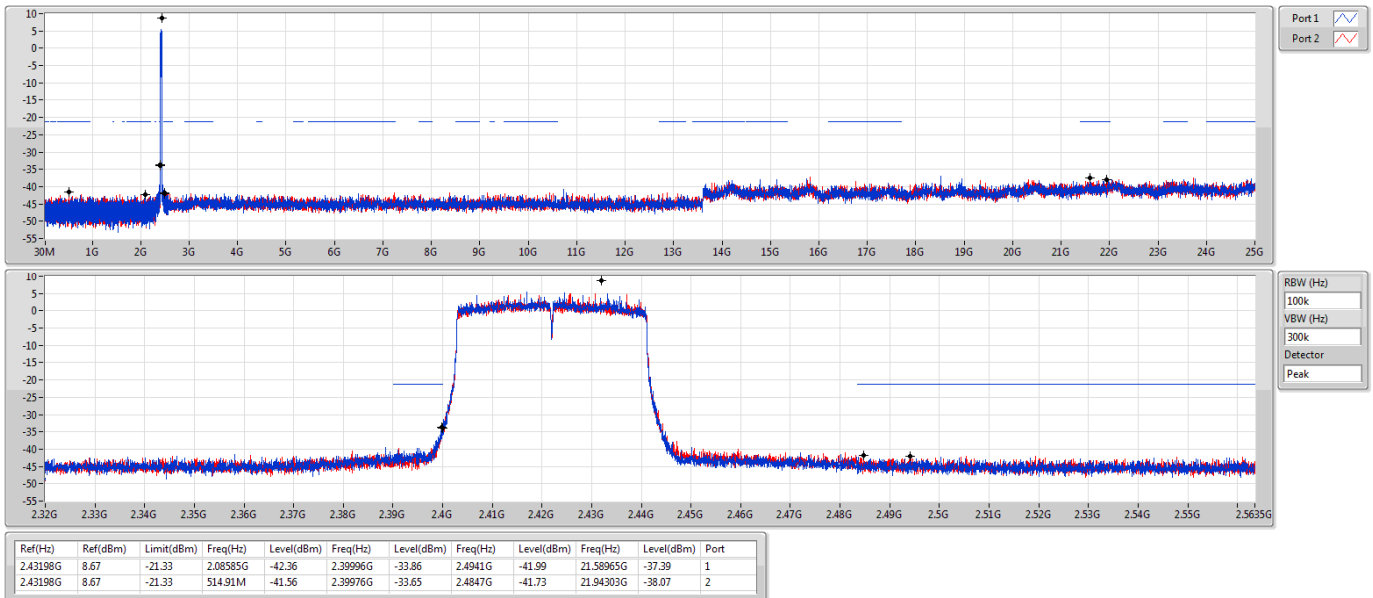


802.11ax HEW40-BF_Nss1,(MCS0)_2TX

2422MHz

CSE NdB

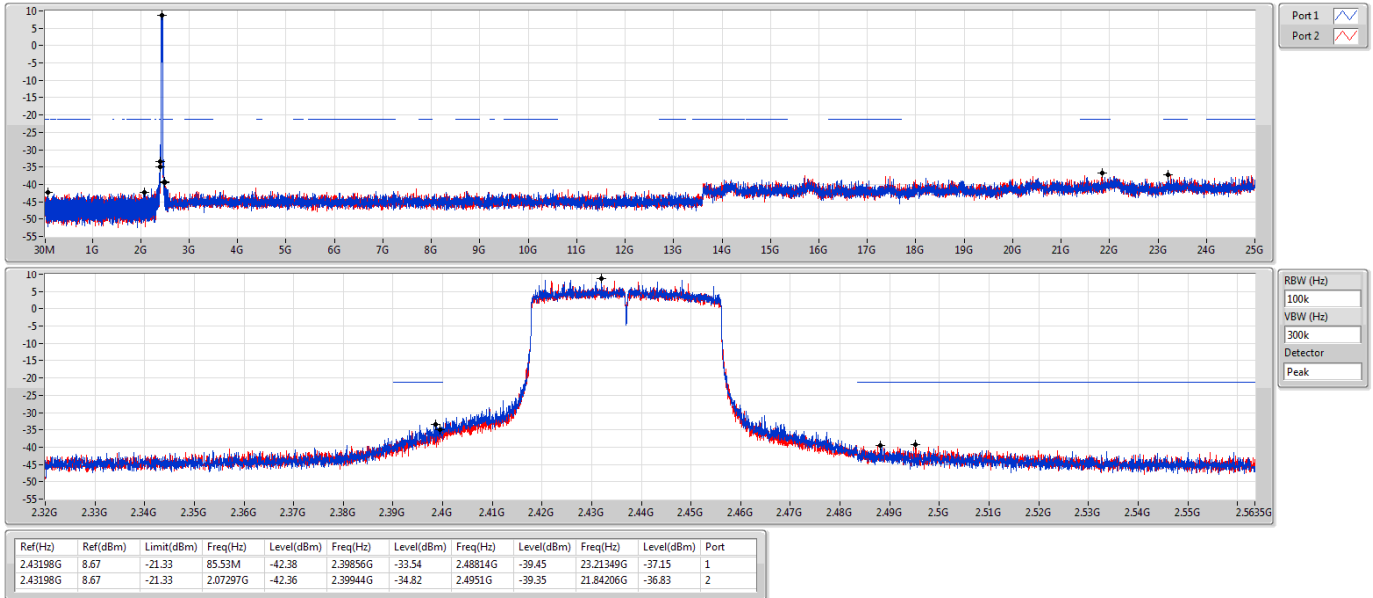
26/06/2019



802.11ax HEW40-BF_Nss1,(MCS0)_2TX

CSE NdB

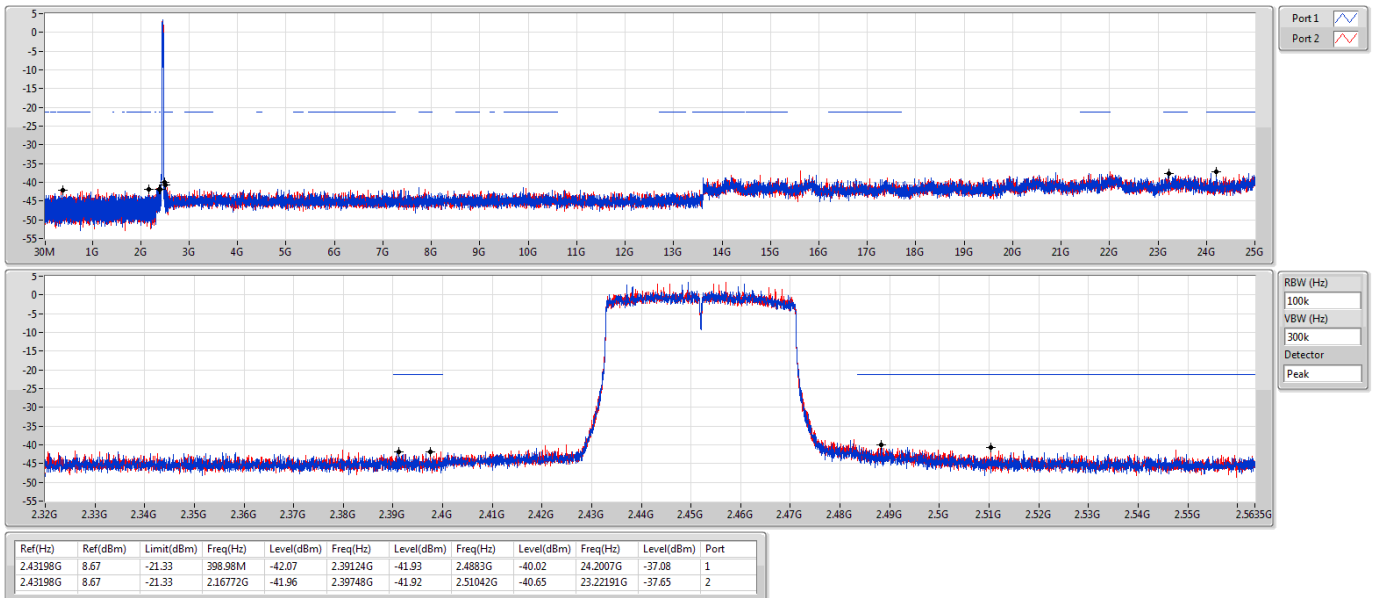
2437MHz

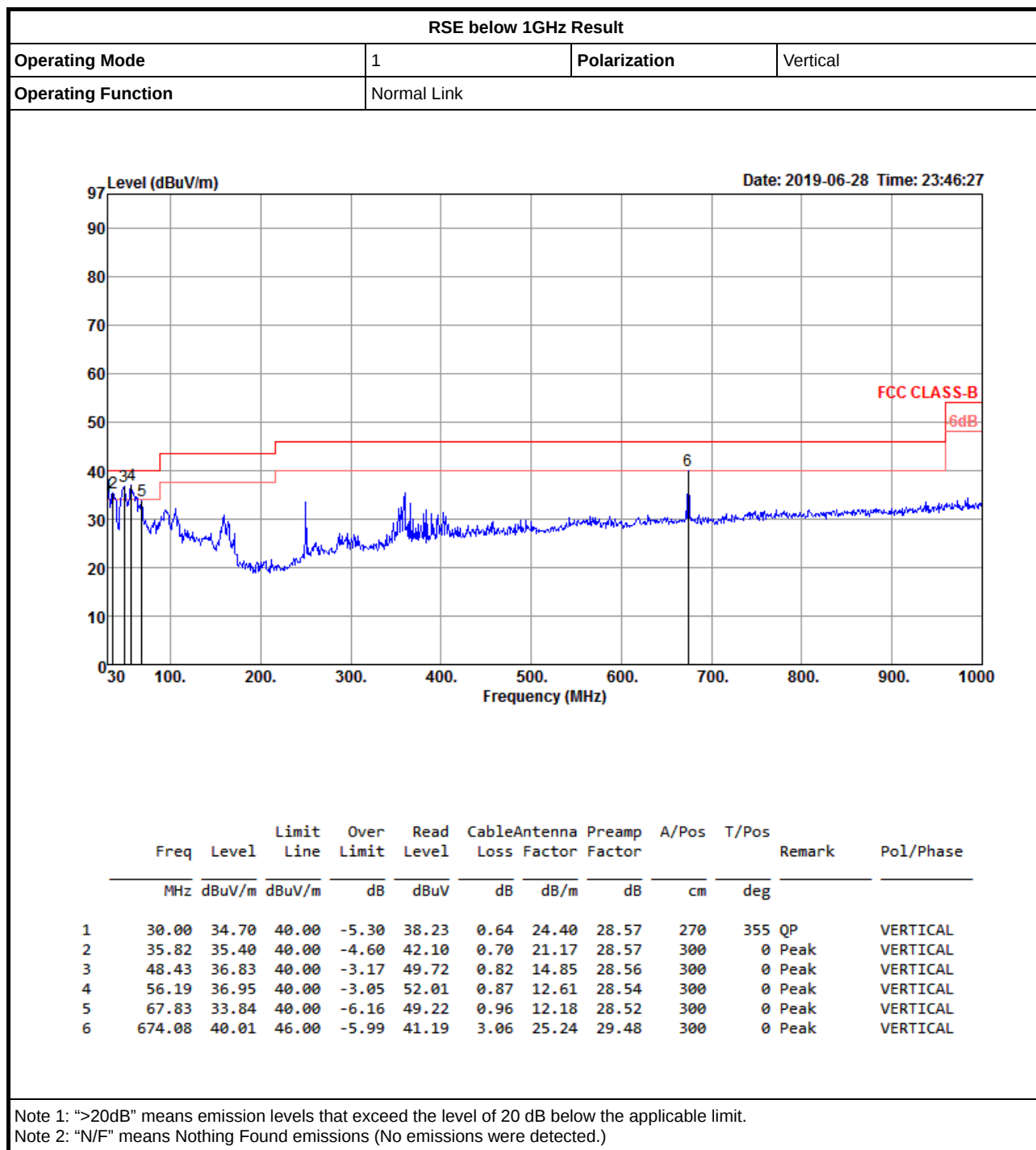


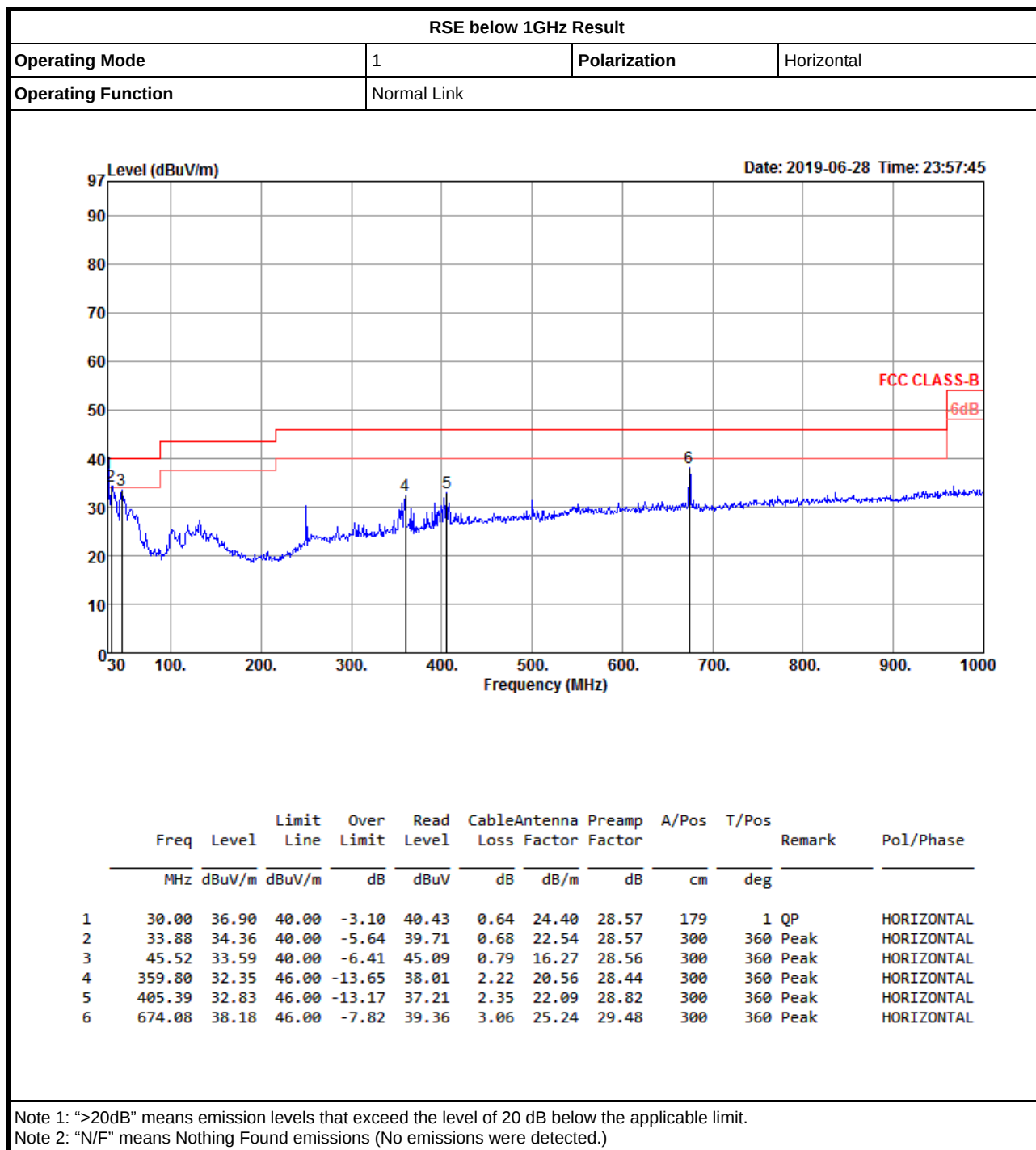
802.11ax HEW40-BF_Nss1,(MCS0)_2TX

CSE NdB

2452MHz









RSE TX above 1GHz Result

Appendix F.2

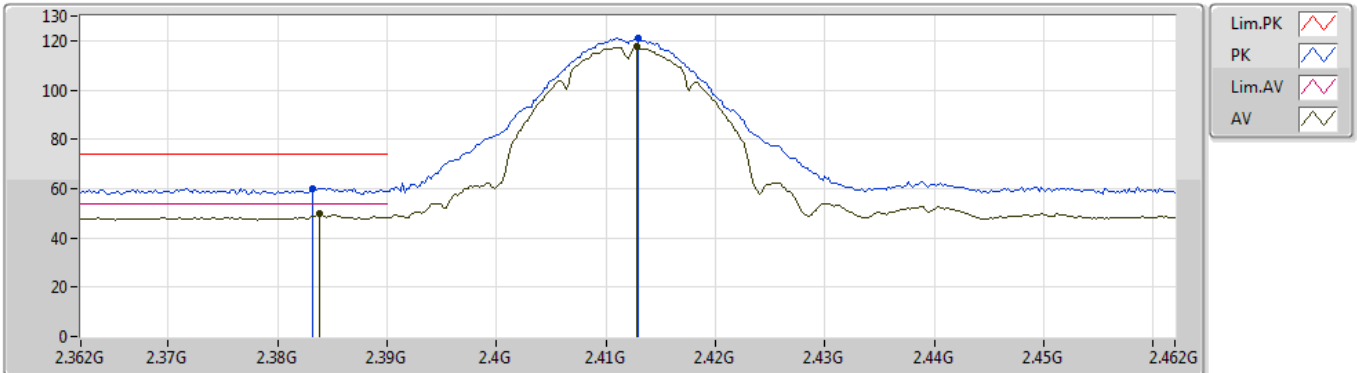
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	Pass	AV	2.3898G	53.97	54.00	-0.03	31.20	3	Horizontal	180	2.68	-

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2412MHz_TX



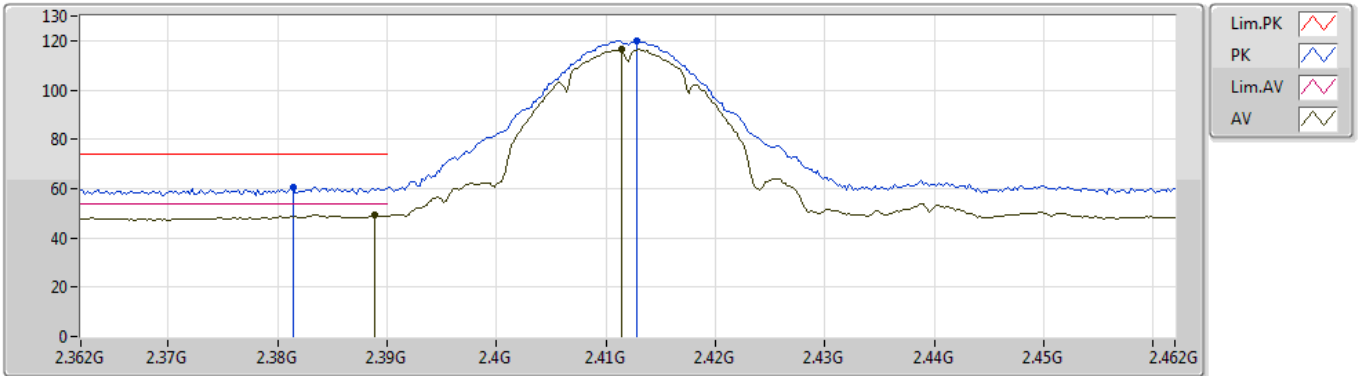
EUT_Z_2TX
Setting 25
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3832G	60.19	74.00	-13.81	31.19	3	Vertical	324	2.14	-				
AV	2.3838G	49.70	54.00	-4.30	31.19	3	Vertical	324	2.14	-				
PK	2.413G	120.86	Inf	-Inf	31.26	3	Vertical	324	2.14	-				
AV	2.4128G	117.54	Inf	-Inf	31.26	3	Vertical	324	2.14	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2412MHz_TX



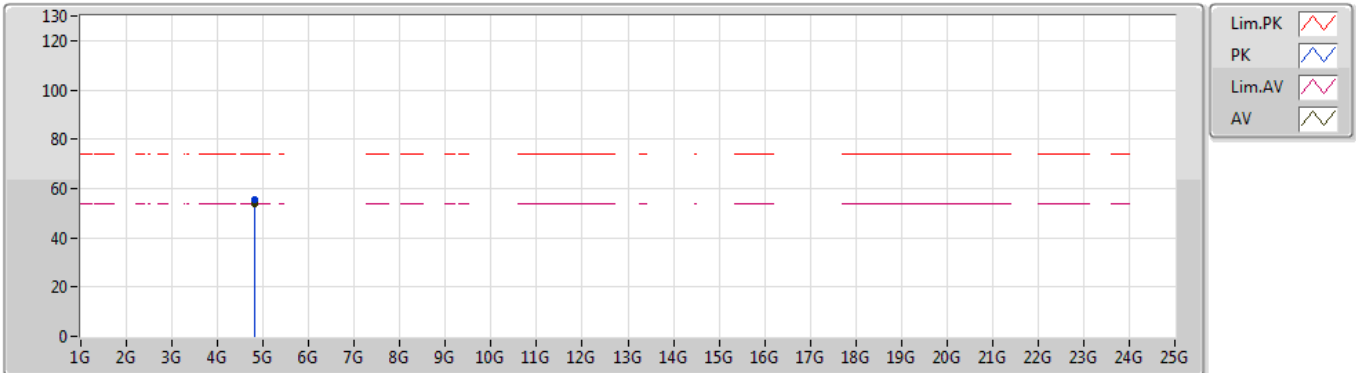
EUT_Z_2TX
Setting 25
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3814G	60.49	74.00	-13.51	31.19	3	Horizontal	166	1.75	-				
AV	2.3888G	49.39	54.00	-4.61	31.20	3	Horizontal	166	1.75	-				
PK	2.4128G	119.94	Inf	-Inf	31.26	3	Horizontal	166	1.75	-				
AV	2.4114G	116.41	Inf	-Inf	31.25	3	Horizontal	166	1.75	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2412MHz_TX



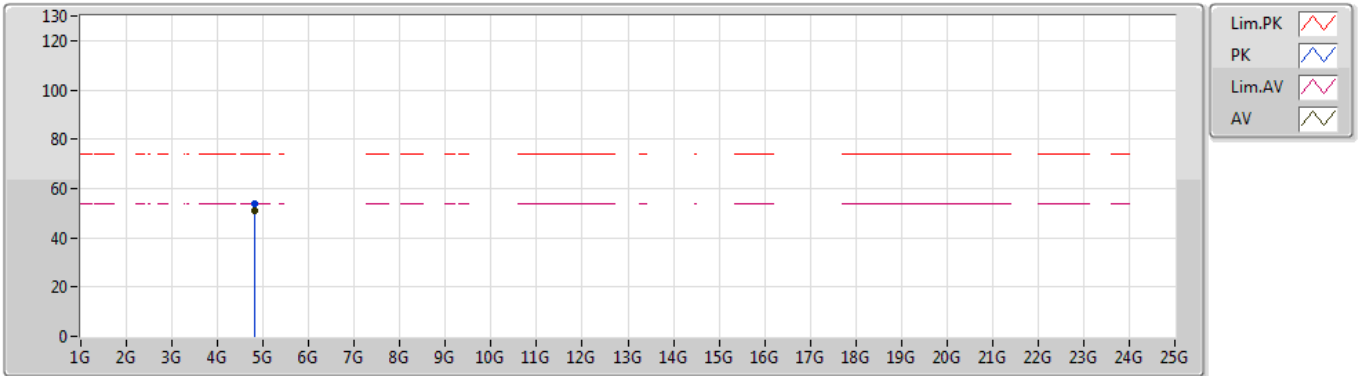
EUT_Z_2TX
Setting 25
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82396G	55.72	74.00	-18.28	7.17	3	Vertical	142	2.77	-				
AV	4.82392G	53.76	54.00	-0.24	7.17	3	Vertical	142	2.77	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2412MHz_TX



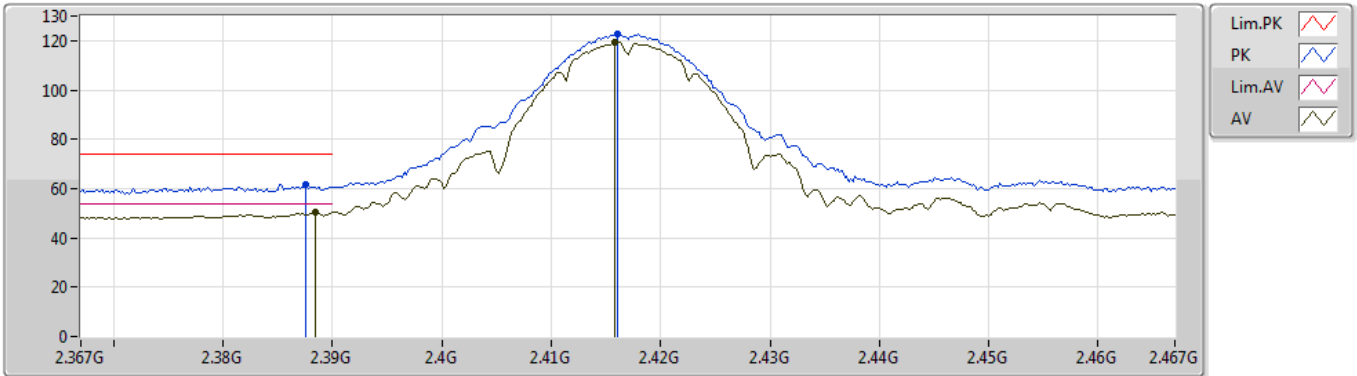
EUT_Z_2TX
Setting 25
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82388G	53.52	74.00	-20.48	7.17	3	Horizontal	178	1.68	-				
AV	4.82396G	50.79	54.00	-3.21	7.17	3	Horizontal	178	1.68	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2417MHz_TX



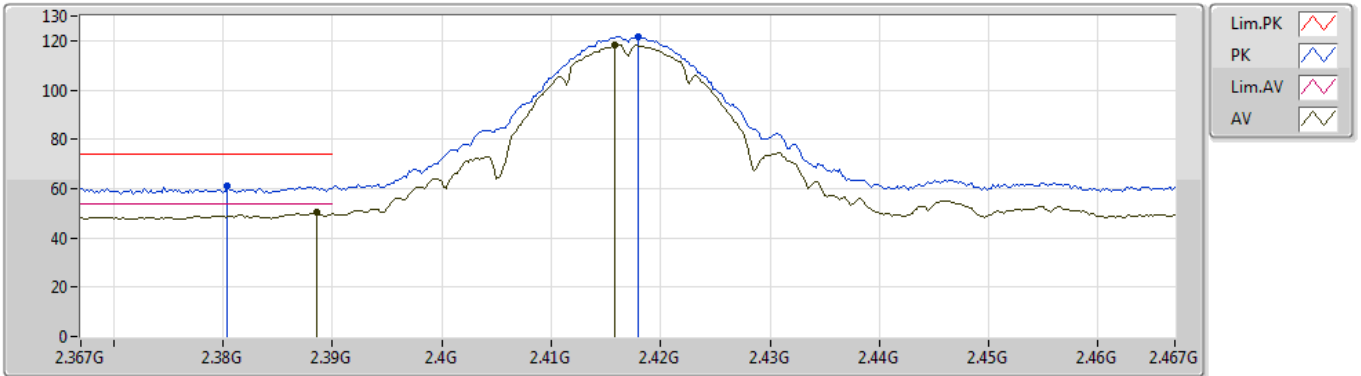
EUT_Z_2TX
Setting 27
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3876G	61.43	74.00	-12.57	31.20	3	Vertical	330	2.04	-				
AV	2.3884G	50.47	54.00	-3.53	31.20	3	Vertical	330	2.04	-				
PK	2.416G	122.63	Inf	-Inf	31.27	3	Vertical	330	2.04	-				
AV	2.4158G	119.21	Inf	-Inf	31.27	3	Vertical	330	2.04	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2417MHz_TX



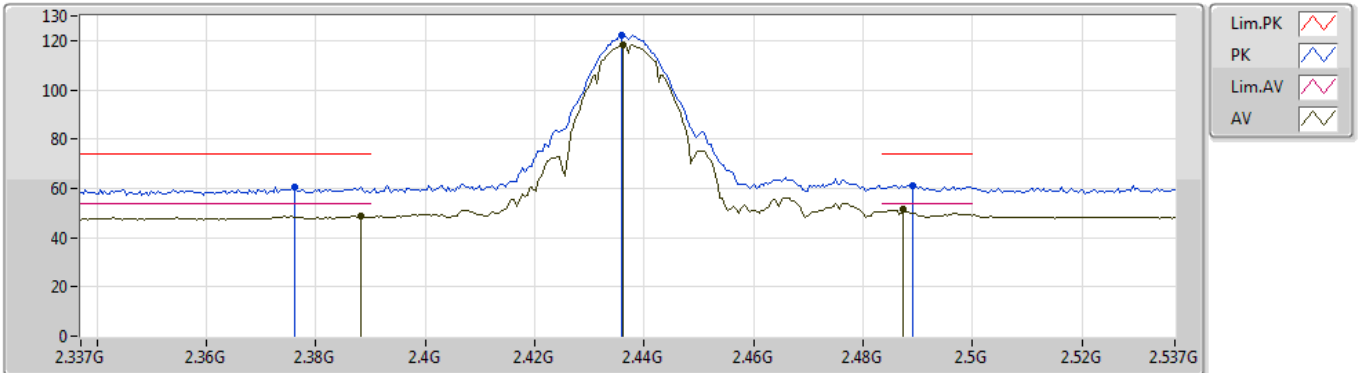
EUT Z_2TX
Setting 27
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3804G	61.10	74.00	-12.90	31.18	3	Horizontal	174	2.05	-				
AV	2.3886G	50.34	54.00	-3.66	31.20	3	Horizontal	174	2.05	-				
PK	2.418G	121.55	Inf	-Inf	31.27	3	Horizontal	174	2.05	-				
AV	2.4158G	118.32	Inf	-Inf	31.27	3	Horizontal	174	2.05	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2437MHz_TX



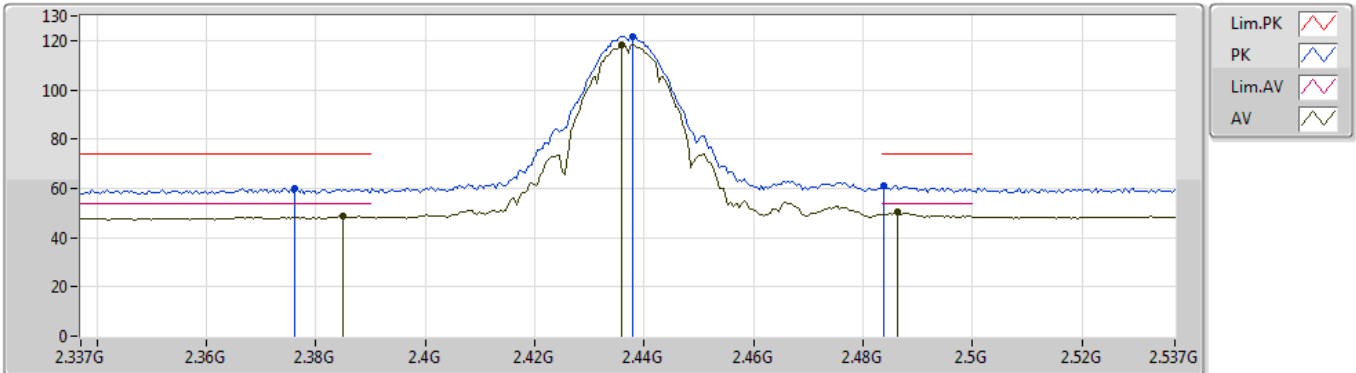
EUT_Z_2TX
Setting 27
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3762G	60.51	74.00	-13.49	31.17	3	Vertical	343	1.46	-
AV	2.3882G	48.97	54.00	-5.03	31.20	3	Vertical	343	1.46	-
PK	2.4358G	121.95	Inf	-Inf	31.30	3	Vertical	343	1.46	-
AV	2.4362G	118.41	Inf	-Inf	31.30	3	Vertical	343	1.46	-
PK	2.489G	61.13	74.00	-12.87	31.41	3	Vertical	343	1.46	-
AV	2.4874G	51.34	54.00	-2.66	31.40	3	Vertical	343	1.46	-

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2437MHz_TX



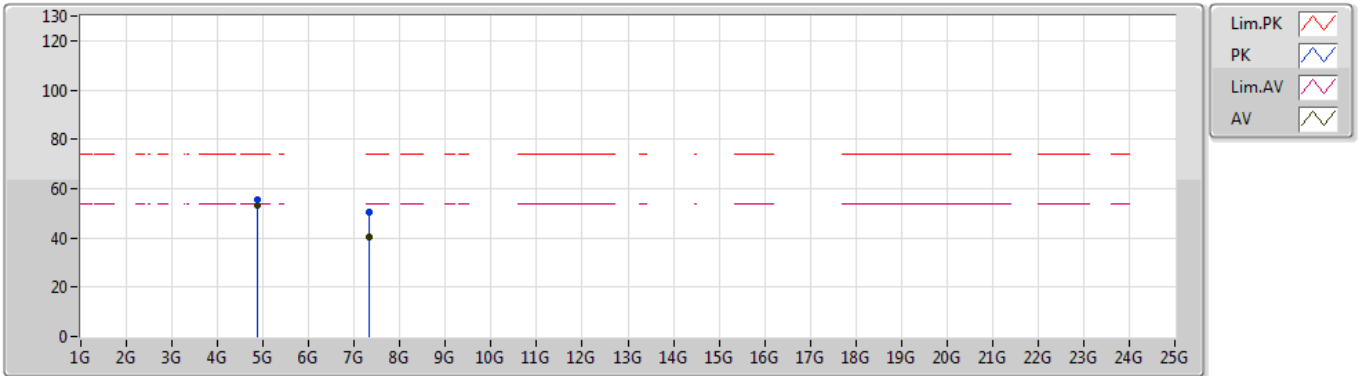
EUT_Z_2TX
Setting 27
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3762G	59.89	74.00	-14.11	31.17	3	Horizontal	176	2.24	-
AV	2.385G	48.71	54.00	-5.29	31.19	3	Horizontal	176	2.24	-
PK	2.4378G	121.70	Inf	-Inf	31.31	3	Horizontal	176	2.24	-
AV	2.4358G	118.23	Inf	-Inf	31.30	3	Horizontal	176	2.24	-
PK	2.4838G	61.13	74.00	-12.87	31.39	3	Horizontal	176	2.24	-
AV	2.4862G	50.20	54.00	-3.80	31.40	3	Horizontal	176	2.24	-

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2437MHz_TX



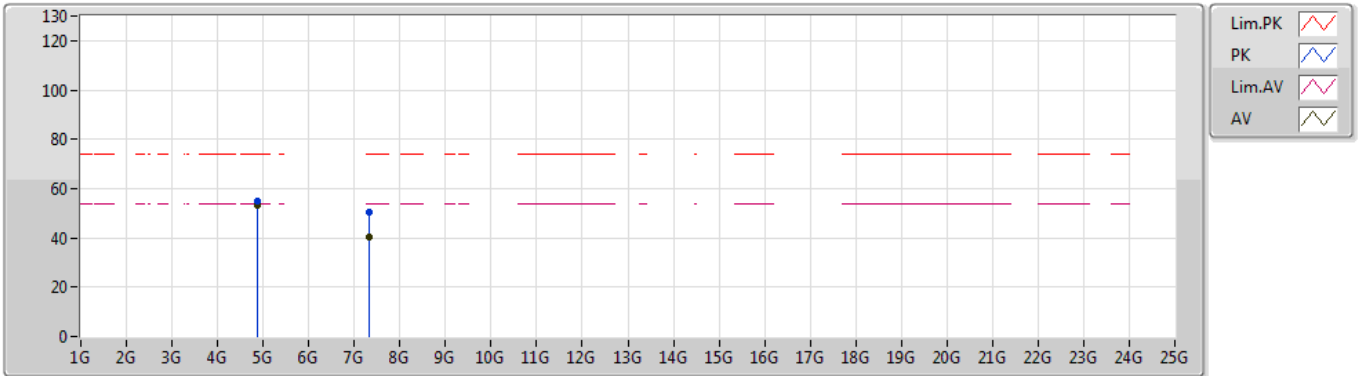
EUT_Z_2TX
Setting 27
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87392G	55.51	74.00	-18.49	7.28	3	Vertical	156	2.25	-				
AV	4.87392G	53.42	54.00	-0.58	7.28	3	Vertical	156	2.25	-				
PK	7.31252G	50.45	74.00	-23.55	10.56	3	Vertical	165	1.78	-				
AV	7.31164G	40.24	54.00	-13.76	10.55	3	Vertical	165	1.78	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2437MHz_TX



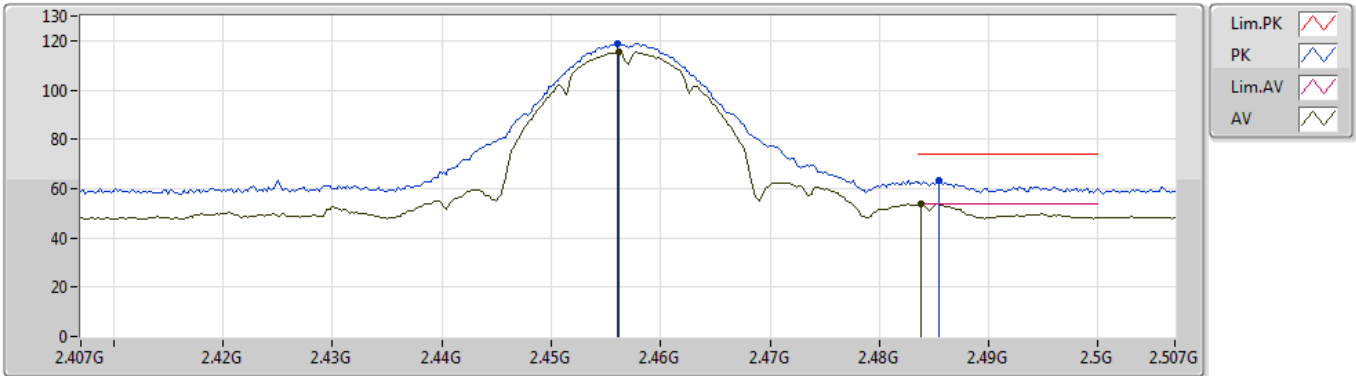
EUT_Z_2TX
Setting 27
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87392G	55.01	74.00	-18.99	7.28	3	Horizontal	173	1.60	-				
AV	4.87392G	53.16	54.00	-0.84	7.28	3	Horizontal	173	1.60	-				
PK	7.31136G	50.64	74.00	-23.36	10.54	3	Horizontal	181	2.43	-				
AV	7.31152G	40.62	54.00	-13.38	10.55	3	Horizontal	181	2.43	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2457MHz_TX



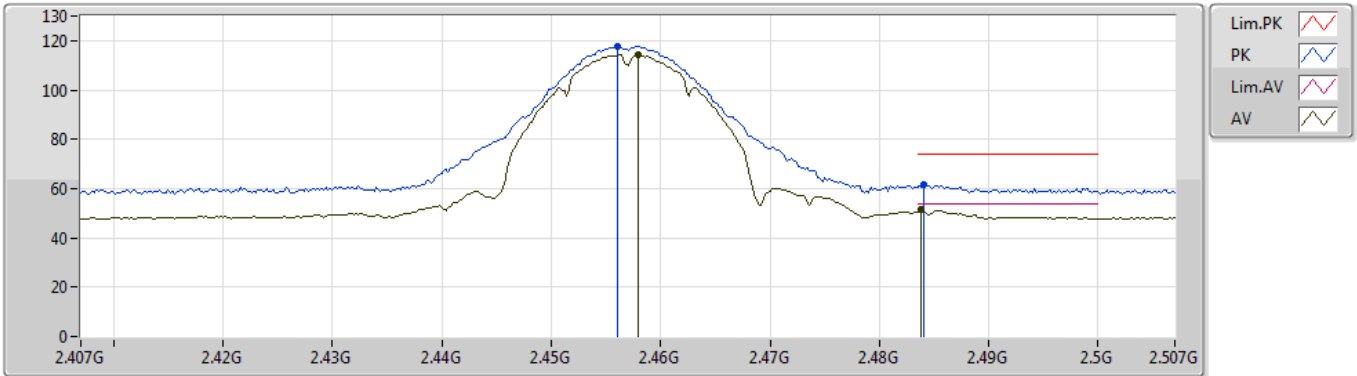
EUT_Z_2TX
Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.456G	118.95	Inf	-Inf	31.34	3	Vertical	330	2.00	-				
AV	2.4562G	115.44	Inf	-Inf	31.34	3	Vertical	330	2.00	-				
PK	2.4854G	63.44	74.00	-10.56	31.40	3	Vertical	330	2.00	-				
AV	2.4838G	53.94	54.00	-0.06	31.39	3	Vertical	330	2.00	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2457MHz_TX



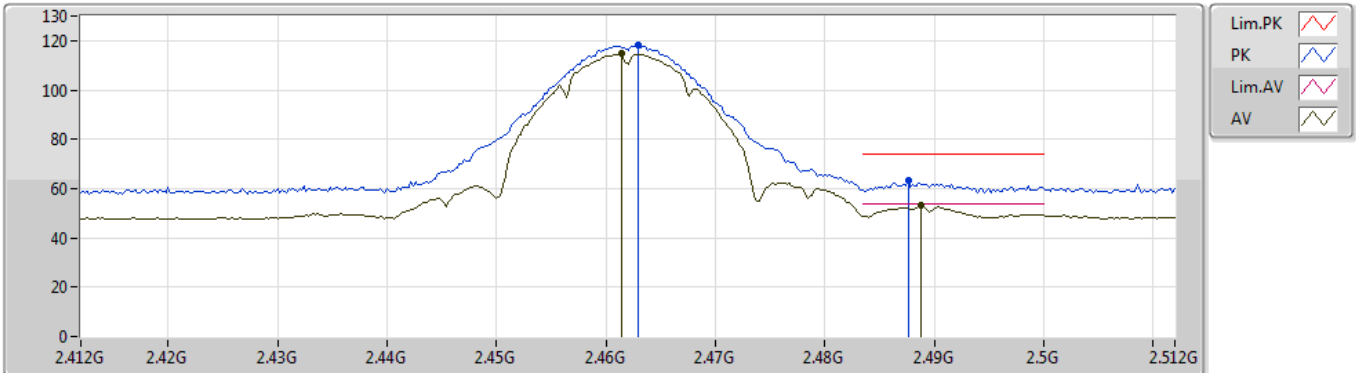
EUT_Z_2TX
Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.456G	117.85	Inf	-Inf	31.34	3	Horizontal	163	2.05	-				
AV	2.458G	114.59	Inf	-Inf	31.34	3	Horizontal	163	2.05	-				
PK	2.484G	61.40	74.00	-12.60	31.39	3	Horizontal	163	2.05	-				
AV	2.4838G	51.31	54.00	-2.69	31.39	3	Horizontal	163	2.05	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2462MHz_TX



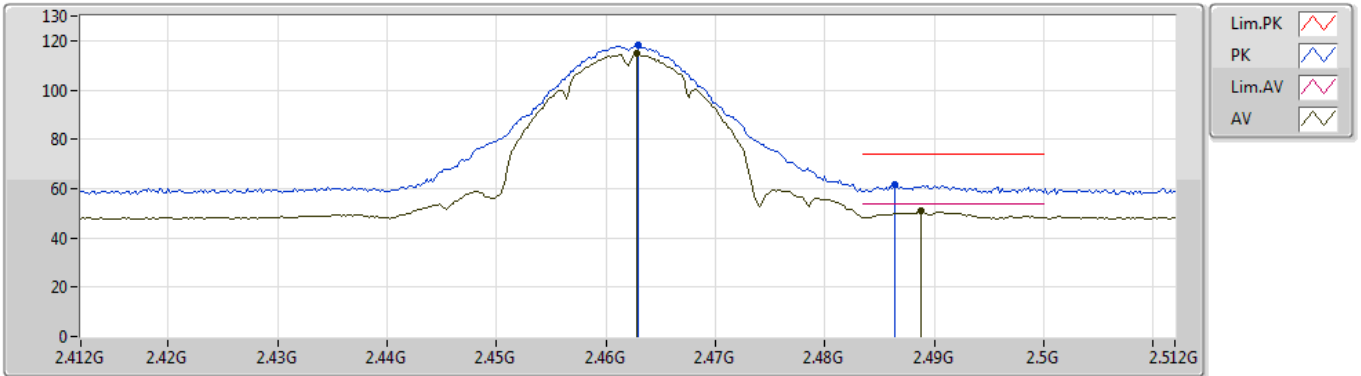
EUT_Z_2TX
Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.463G	118.16	Inf	-Inf	31.36	3	Vertical	309	1.59	-				
AV	2.4614G	114.66	Inf	-Inf	31.35	3	Vertical	309	1.59	-				
PK	2.4876G	63.10	74.00	-10.90	31.41	3	Vertical	309	1.59	-				
AV	2.4888G	52.96	54.00	-1.04	31.41	3	Vertical	309	1.59	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2462MHz_TX



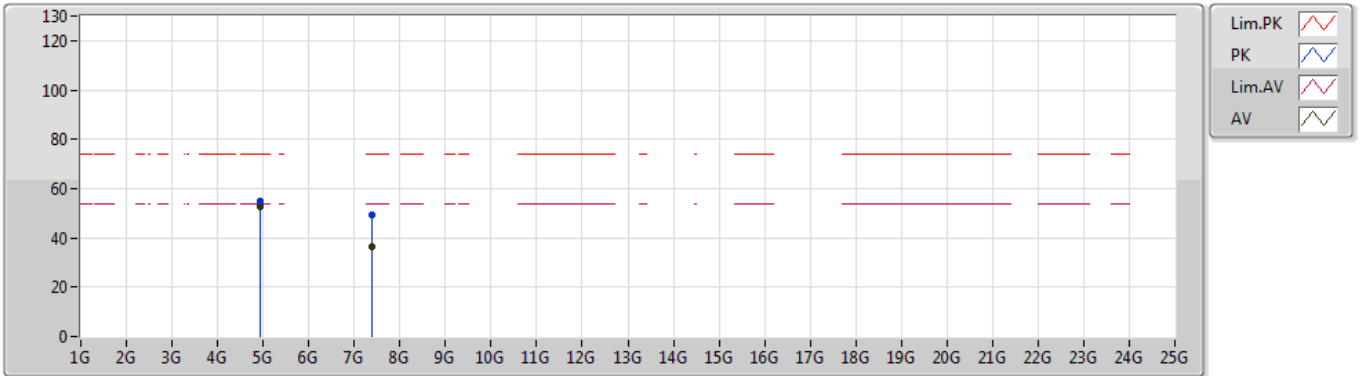
EUT_Z_2TX
Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.463G	118.01	Inf	-Inf	31.36	3	Horizontal	172	1.50	-				
AV	2.4628G	114.71	Inf	-Inf	31.36	3	Horizontal	172	1.50	-				
PK	2.4864G	61.37	74.00	-12.63	31.40	3	Horizontal	172	1.50	-				
AV	2.4888G	50.81	54.00	-3.19	31.41	3	Horizontal	172	1.50	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2462MHz_TX



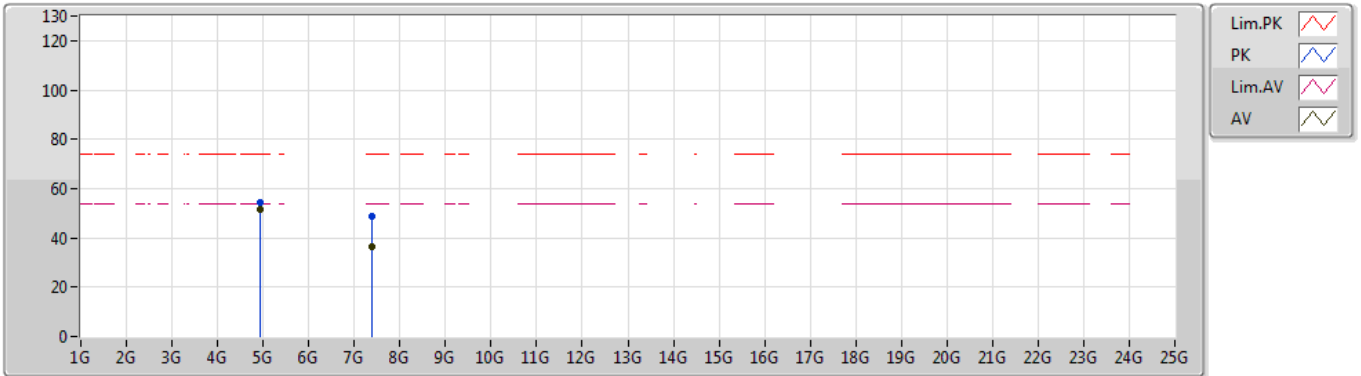
EUT_Z_2TX
Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92402G	55.15	74.00	-18.85	7.40	3	Vertical	150	2.35	-				
AV	4.92394G	52.78	54.00	-1.22	7.40	3	Vertical	150	2.35	-				
PK	7.38334G	49.58	74.00	-24.42	10.75	3	Vertical	184	1.76	-				
AV	7.38416G	36.43	54.00	-17.57	10.76	3	Vertical	184	1.76	-				

802.11b_Nss1,(1Mbps)_2TX

14/06/2019

2462MHz_TX



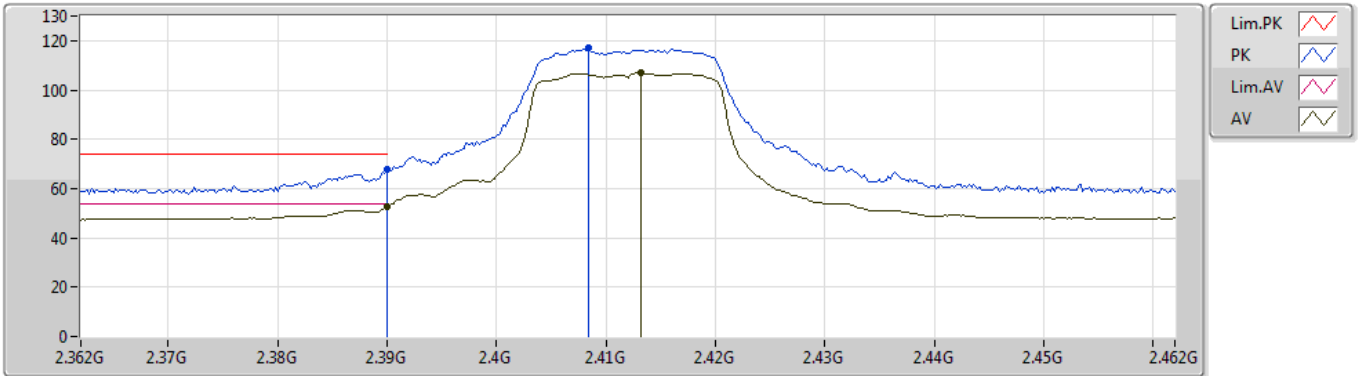
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Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92394G	54.27	74.00	-19.73	7.40	3	Horizontal	173	2.77	-				
AV	4.92394G	51.47	54.00	-2.53	7.40	3	Horizontal	173	2.77	-				
PK	7.38302G	48.84	74.00	-25.16	10.75	3	Horizontal	260	2.48	-				
AV	7.38678G	36.55	54.00	-17.45	10.76	3	Horizontal	260	2.48	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2412MHz_TX



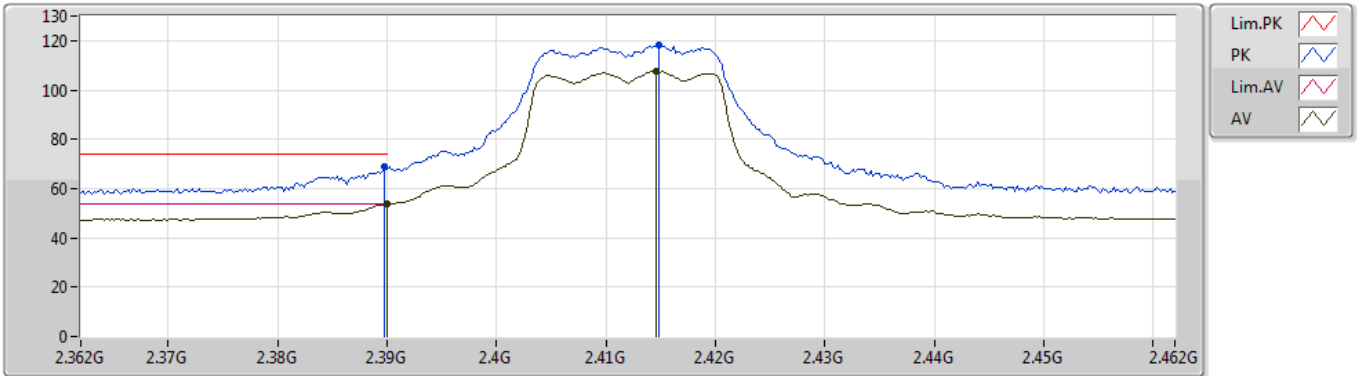
EUT_Z_2TX
Setting 22
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	67.54	74.00	-6.46	31.20	3	Vertical	340	1.49	-				
AV	2.39G	52.54	54.00	-1.46	31.20	3	Vertical	340	1.49	-				
PK	2.4084G	116.86	Inf	-Inf	31.24	3	Vertical	340	1.49	-				
AV	2.4132G	106.93	Inf	-Inf	31.26	3	Vertical	340	1.49	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2412MHz_TX



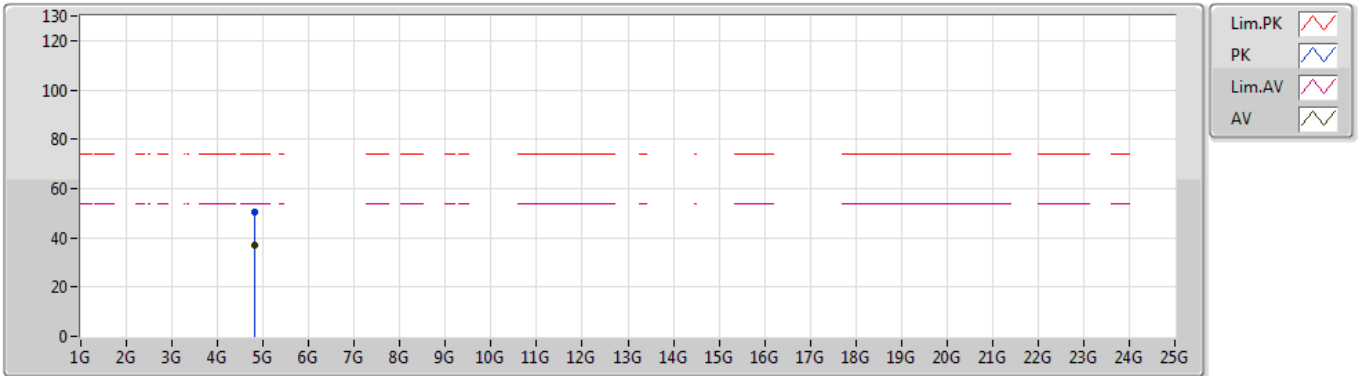
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Setting 22
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	68.80	74.00	-5.20	31.20	3	Horizontal	161	2.97	-				
AV	2.39G	53.80	54.00	-0.20	31.20	3	Horizontal	161	2.97	-				
PK	2.4148G	118.44	Inf	-Inf	31.26	3	Horizontal	161	2.97	-				
AV	2.4146G	107.63	Inf	-Inf	31.26	3	Horizontal	161	2.97	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2412MHz_TX



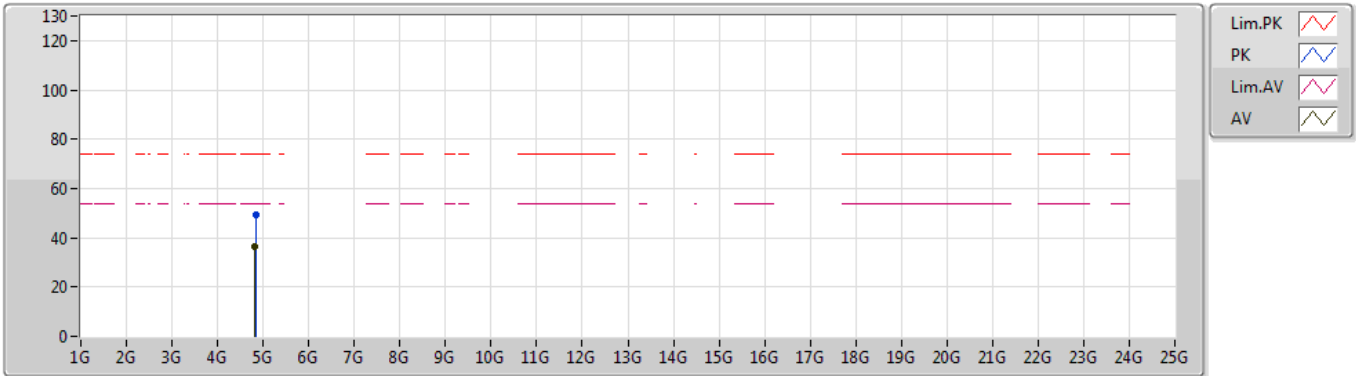
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Setting 22
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82464G	50.47	74.00	-23.53	7.17	3	Vertical	138	2.19	-				
AV	4.82392G	37.18	54.00	-16.82	7.17	3	Vertical	138	2.19	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2412MHz_TX



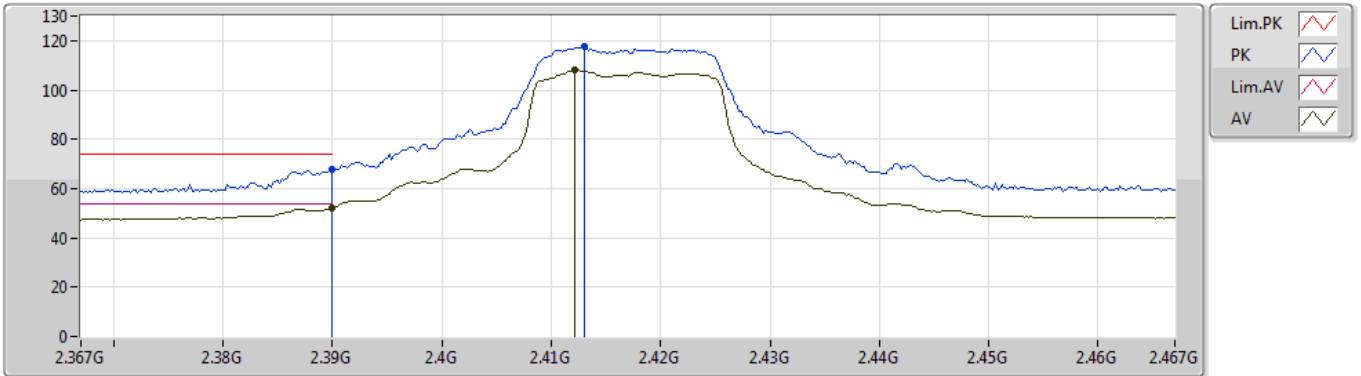
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Setting 22
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82872G	49.41	74.00	-24.59	7.18	3	Horizontal	173	1.75	-				
AV	4.824G	36.44	54.00	-17.56	7.17	3	Horizontal	173	1.75	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2417MHz_TX



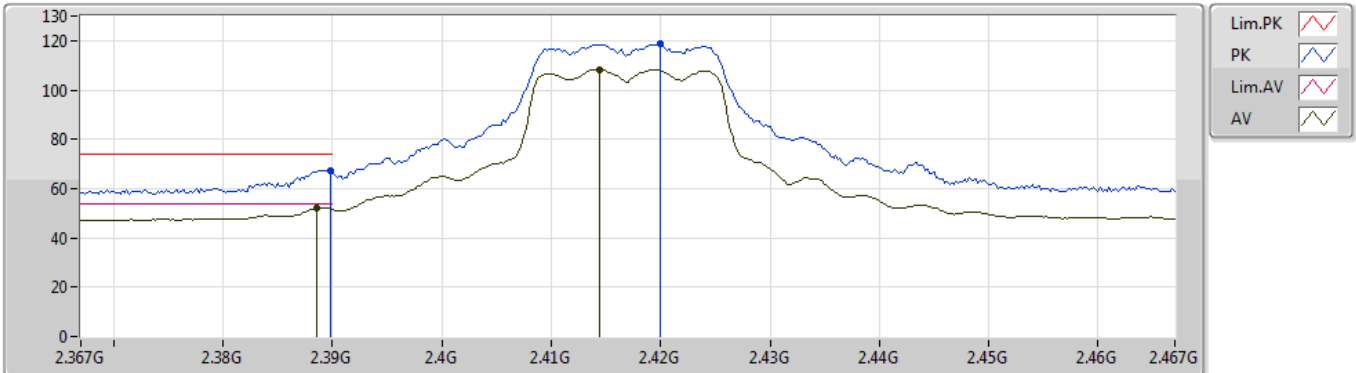
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Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	67.72	74.00	-6.28	31.20	3	Vertical	344	1.64	-				
AV	2.39G	52.33	54.00	-1.67	31.20	3	Vertical	344	1.64	-				
PK	2.413G	117.46	Inf	-Inf	31.26	3	Vertical	344	1.64	-				
AV	2.4122G	108.00	Inf	-Inf	31.25	3	Vertical	344	1.64	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2417MHz_TX



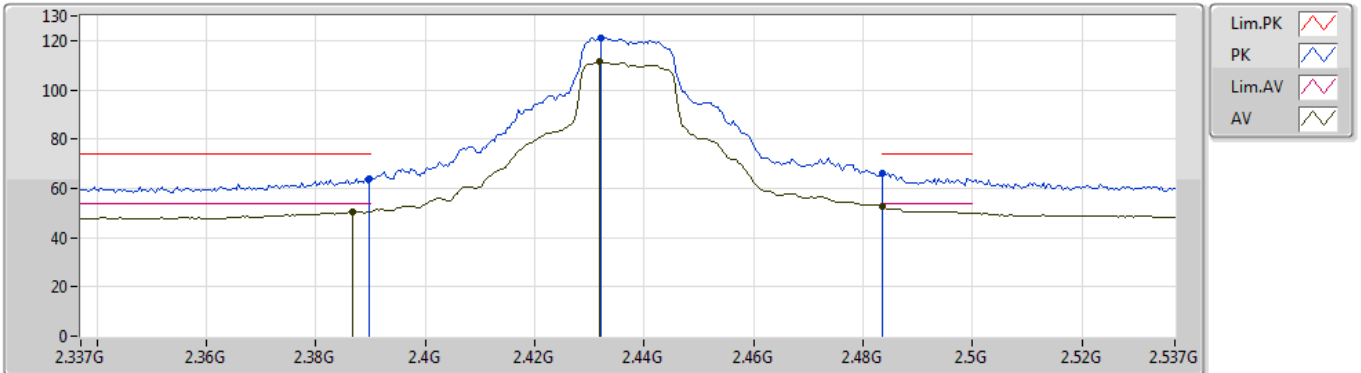
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Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	67.37	74.00	-6.63	31.20	3	Horizontal	171	2.98	-				
AV	2.3886G	52.38	54.00	-1.62	31.20	3	Horizontal	171	2.98	-				
PK	2.42G	118.84	Inf	-Inf	31.27	3	Horizontal	171	2.98	-				
AV	2.4144G	108.42	Inf	-Inf	31.26	3	Horizontal	171	2.98	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2437MHz_TX



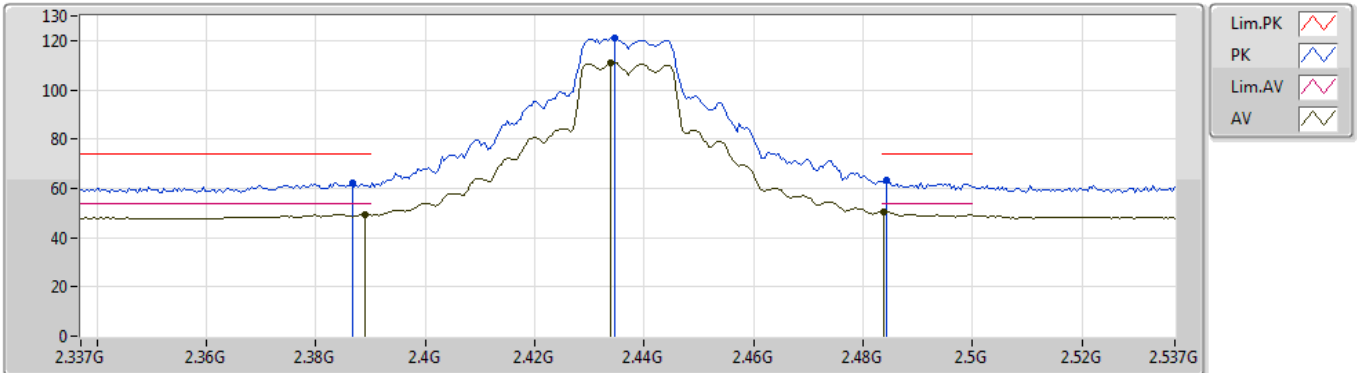
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Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3898G	64.10	74.00	-9.90	31.20	3	Vertical	331	1.43	-
AV	2.3866G	50.43	54.00	-3.57	31.20	3	Vertical	331	1.43	-
PK	2.4322G	121.19	Inf	-Inf	31.29	3	Vertical	331	1.43	-
AV	2.4318G	111.41	Inf	-Inf	31.29	3	Vertical	331	1.43	-
PK	2.4835G	66.34	74.00	-7.66	31.39	3	Vertical	331	1.43	-
AV	2.4835G	52.59	54.00	-1.41	31.39	3	Vertical	331	1.43	-

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2437MHz_TX



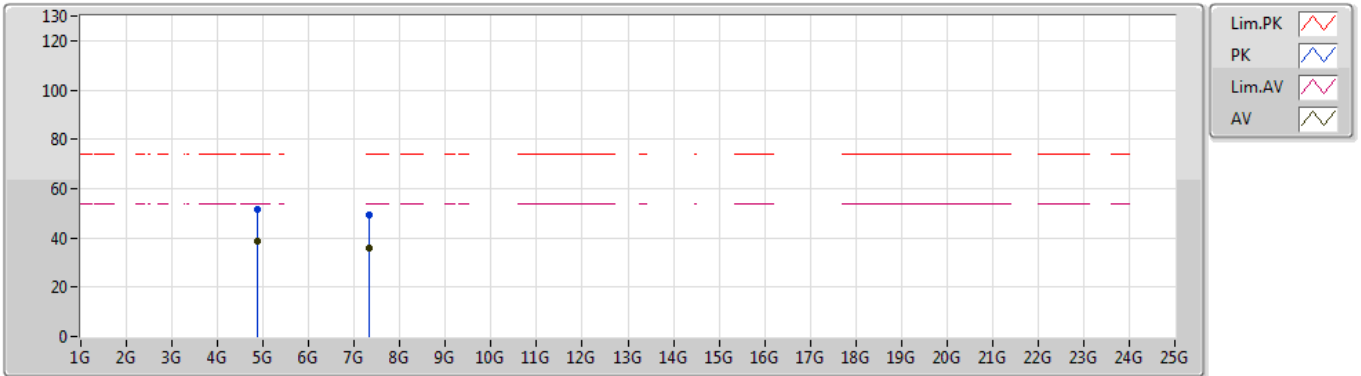
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Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3866G	62.12	74.00	-11.88	31.20	3	Horizontal	165	2.97	-
AV	2.389G	49.34	54.00	-4.66	31.20	3	Horizontal	165	2.97	-
PK	2.4346G	120.98	Inf	-Inf	31.30	3	Horizontal	165	2.97	-
AV	2.4338G	111.06	Inf	-Inf	31.29	3	Horizontal	165	2.97	-
PK	2.4842G	63.18	74.00	-10.82	31.39	3	Horizontal	165	2.97	-
AV	2.4838G	50.53	54.00	-3.47	31.39	3	Horizontal	165	2.97	-

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2437MHz_TX



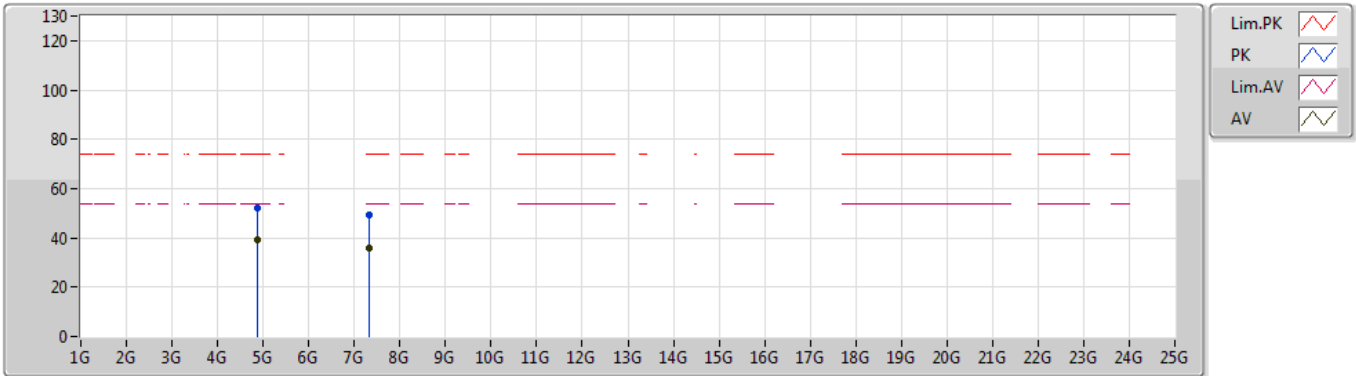
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Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87392G	51.66	74.00	-22.34	7.28	3	Vertical	140	1.95	-				
AV	4.87392G	38.84	54.00	-15.16	7.28	3	Vertical	140	1.95	-				
PK	7.32524G	49.33	74.00	-24.67	10.59	3	Vertical	188	1.91	-				
AV	7.3238G	35.95	54.00	-18.05	10.59	3	Vertical	188	1.91	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2437MHz_TX



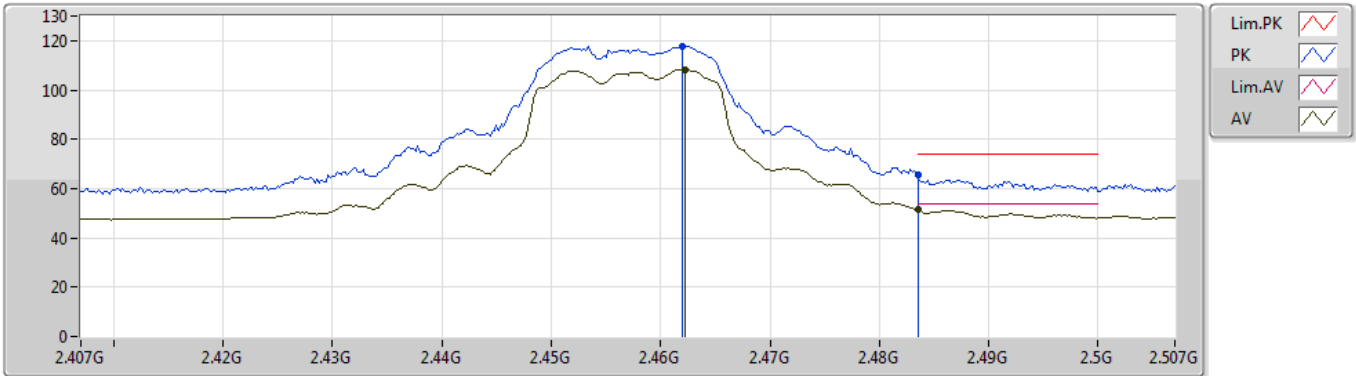
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Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.8788G	52.20	74.00	-21.80	7.30	3	Horizontal	168	1.65	-				
AV	4.87384G	39.23	54.00	-14.77	7.28	3	Horizontal	168	1.65	-				
PK	7.3206G	49.12	74.00	-24.88	10.58	3	Horizontal	161	1.12	-				
AV	7.3206G	35.92	54.00	-18.08	10.58	3	Horizontal	161	1.12	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2457MHz_TX



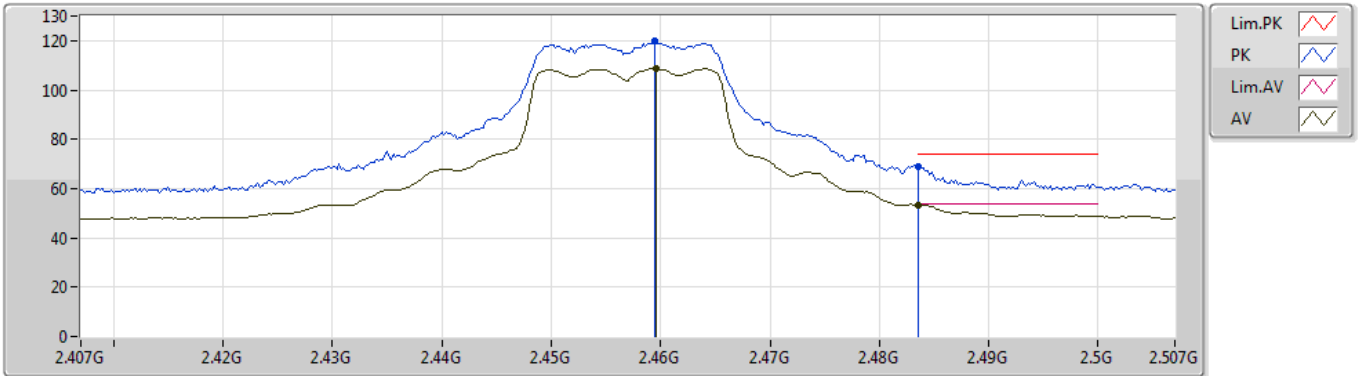
EUT Z_2TX
Setting 23.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.462G	117.65	Inf	-Inf	31.35	3	Vertical	28	1.75	-				
AV	2.4622G	108.41	Inf	-Inf	31.35	3	Vertical	28	1.75	-				
PK	2.4835G	65.75	74.00	-8.25	31.39	3	Vertical	28	1.75	-				
AV	2.4835G	51.35	54.00	-2.65	31.39	3	Vertical	28	1.75	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2457MHz_TX



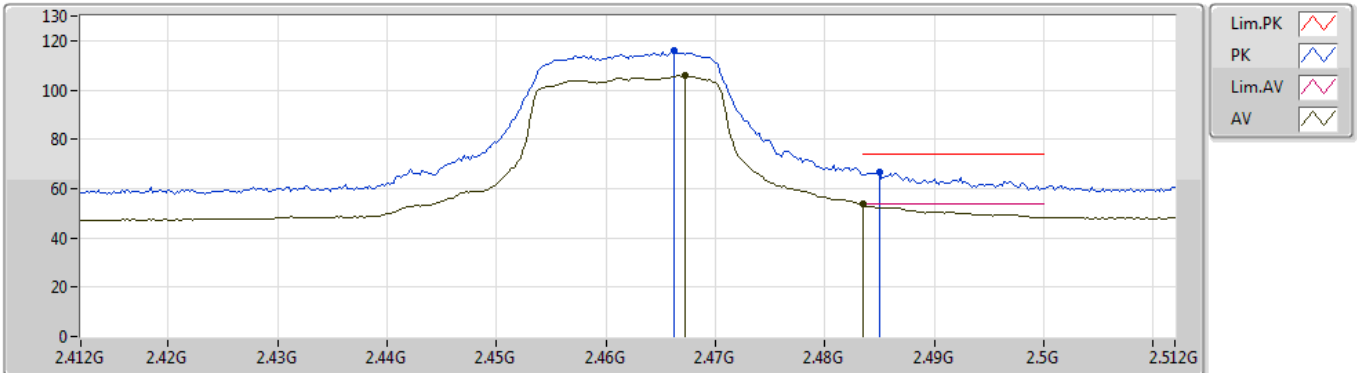
EUT_Z_2TX
Setting 23.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.4594G	119.67	Inf	-Inf	31.35	3	Horizontal	160	2.93	-				
AV	2.4596G	108.95	Inf	-Inf	31.35	3	Horizontal	160	2.93	-				
PK	2.4836G	68.92	74.00	-5.08	31.39	3	Horizontal	160	2.93	-				
AV	2.4835G	53.49	54.00	-0.51	31.39	3	Horizontal	160	2.93	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2462MHz_TX



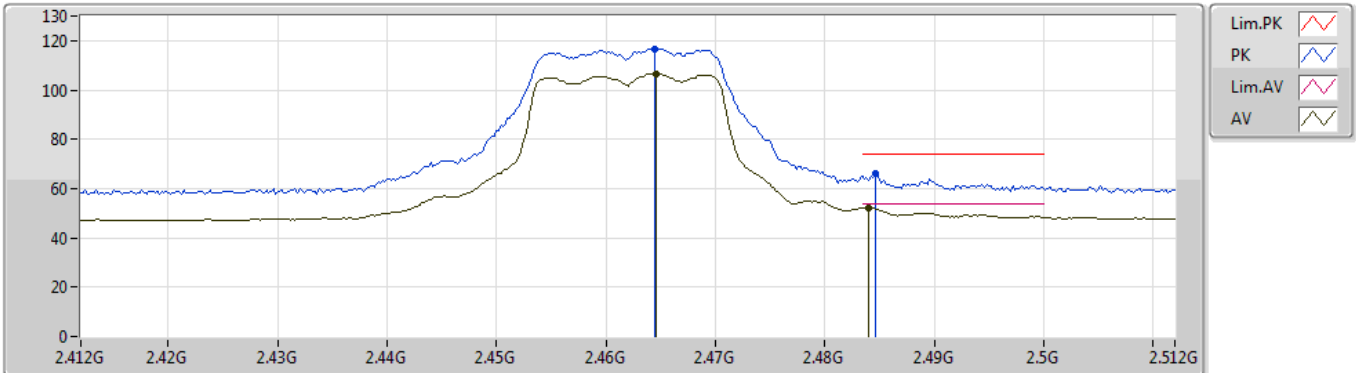
EUT_Z_2TX
Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.4662G	116.21	Inf	-Inf	31.37	3	Vertical	341	1.74	-				
AV	2.4672G	105.75	Inf	-Inf	31.37	3	Vertical	341	1.74	-				
PK	2.485G	66.71	74.00	-7.29	31.40	3	Vertical	341	1.74	-				
AV	2.4835G	53.61	54.00	-0.39	31.39	3	Vertical	341	1.74	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2462MHz_TX



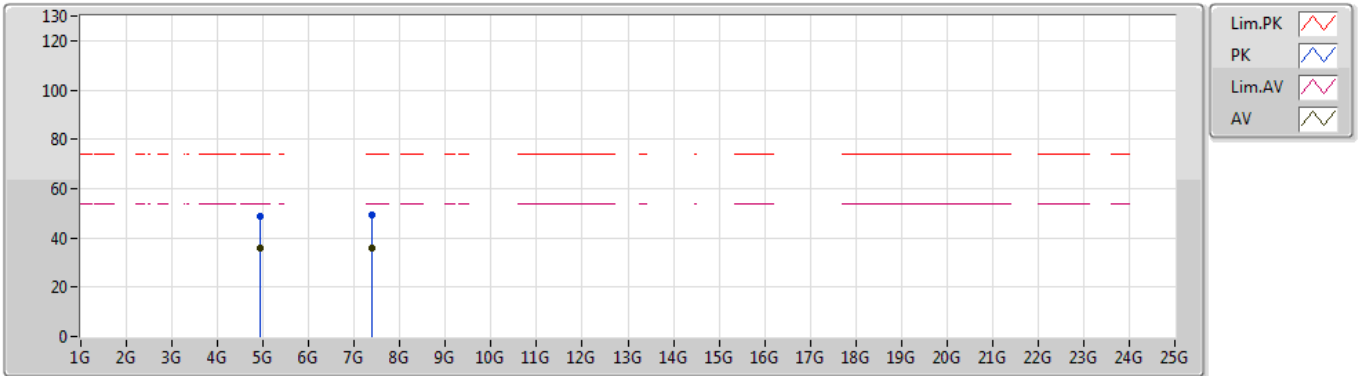
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Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.4644G	116.68	Inf	-Inf	31.36	3	Horizontal	171	2.62	-				
AV	2.4646G	106.72	Inf	-Inf	31.36	3	Horizontal	171	2.62	-				
PK	2.4846G	66.06	74.00	-7.94	31.40	3	Horizontal	171	2.62	-				
AV	2.484G	52.06	54.00	-1.94	31.39	3	Horizontal	171	2.62	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2462MHz_TX



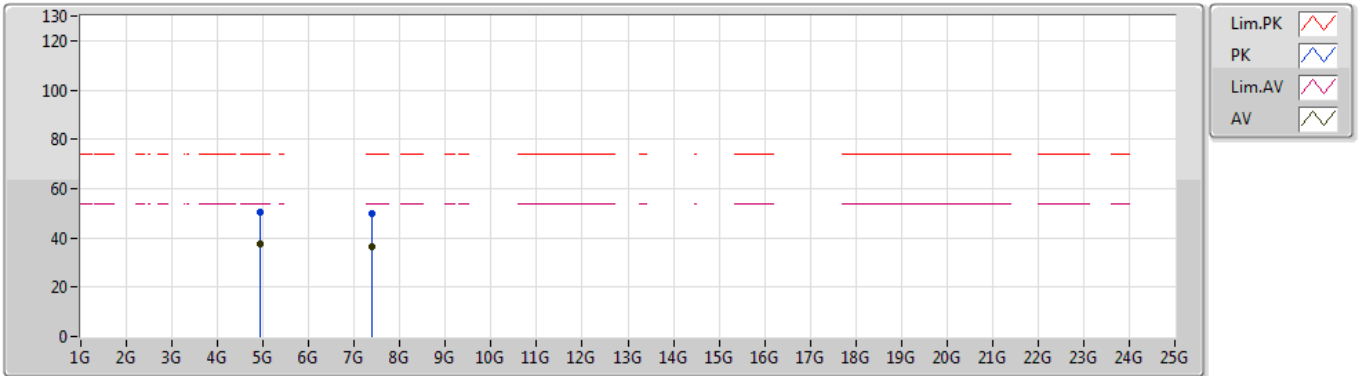
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Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92864G	49.01	74.00	-24.99	7.42	3	Vertical	333	1.33	-				
AV	4.92384G	36.05	54.00	-17.95	7.40	3	Vertical	333	1.33	-				
PK	7.37096G	49.42	74.00	-24.58	10.73	3	Vertical	317	1.72	-				
AV	7.37928G	36.06	54.00	-17.94	10.74	3	Vertical	317	1.72	-				

802.11g_Nss1,(6Mbps)_2TX

19/06/2019

2462MHz_TX



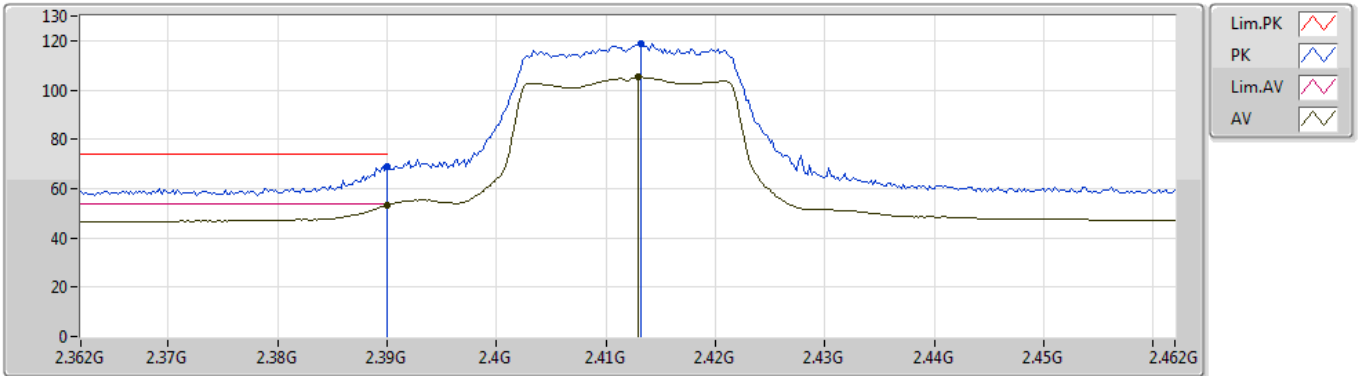
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Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92472G	50.33	74.00	-23.67	7.40	3	Horizontal	177	2.30	-				
AV	4.92384G	37.52	54.00	-16.48	7.40	3	Horizontal	177	2.30	-				
PK	7.3816G	49.61	74.00	-24.39	10.75	3	Horizontal	176	2.36	-				
AV	7.38432G	36.30	54.00	-17.70	10.76	3	Horizontal	176	2.36	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2412MHz_TX



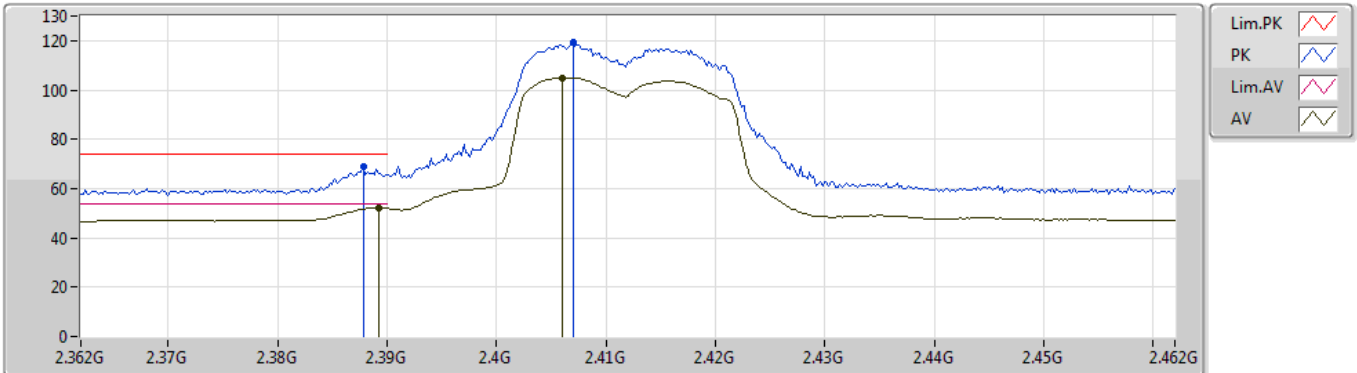
EUT_Z_2TX
Setting 20.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	69.20	74.00	-4.80	31.20	3	Vertical	341	1.54	-				
AV	2.39G	53.30	54.00	-0.70	31.20	3	Vertical	341	1.54	-				
PK	2.4132G	118.63	Inf	-Inf	31.26	3	Vertical	341	1.54	-				
AV	2.413G	105.15	Inf	-Inf	31.26	3	Vertical	341	1.54	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2412MHz_TX



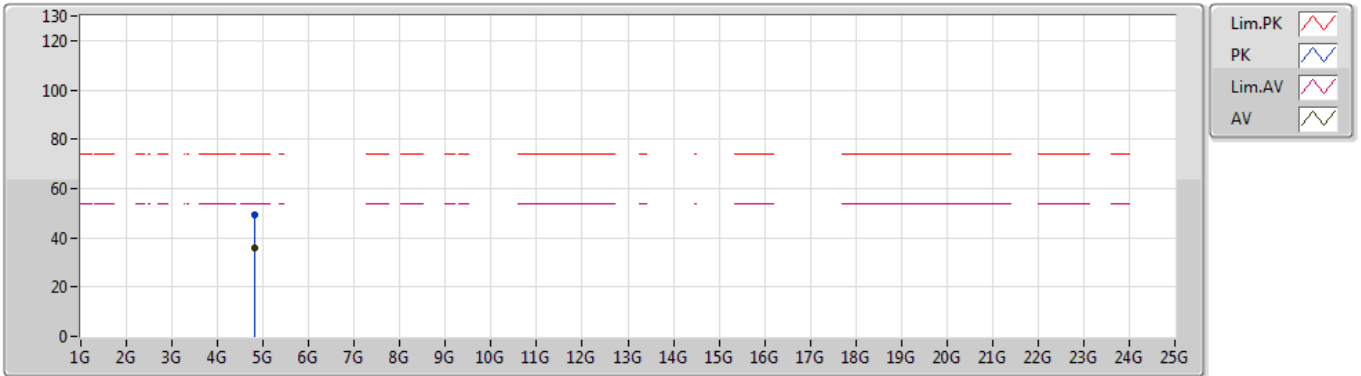
EUT Z_2TX
Setting 20.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3878G	68.91	74.00	-5.09	31.20	3	Horizontal	167	2.81	-				
AV	2.3892G	52.34	54.00	-1.66	31.20	3	Horizontal	167	2.81	-				
PK	2.407G	119.08	Inf	-Inf	31.24	3	Horizontal	167	2.81	-				
AV	2.406G	105.06	Inf	-Inf	31.24	3	Horizontal	167	2.81	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2412MHz_TX



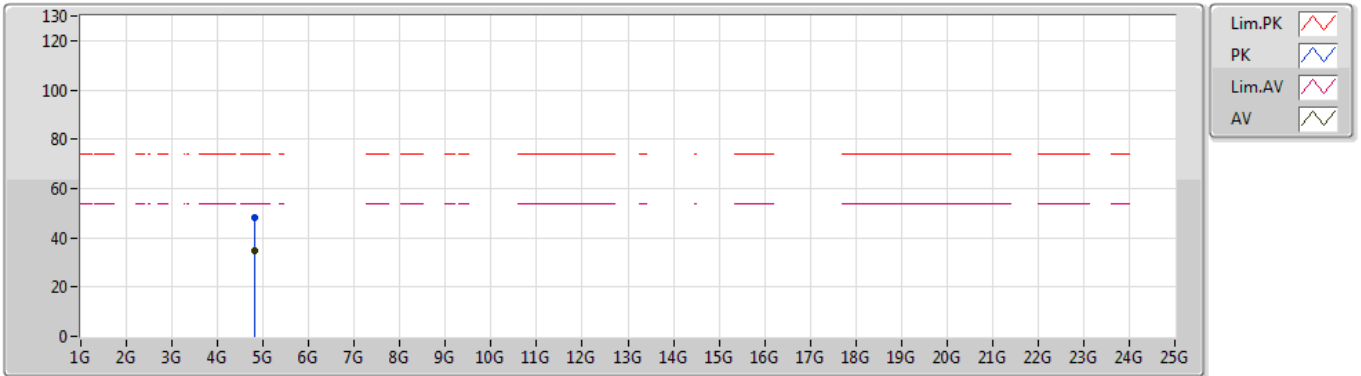
EUT Z_2TX
Setting 20.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82624G	49.39	74.00	-24.61	7.18	3	Vertical	145	2.19	-				
AV	4.82416G	35.73	54.00	-18.27	7.17	3	Vertical	145	2.19	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2412MHz_TX



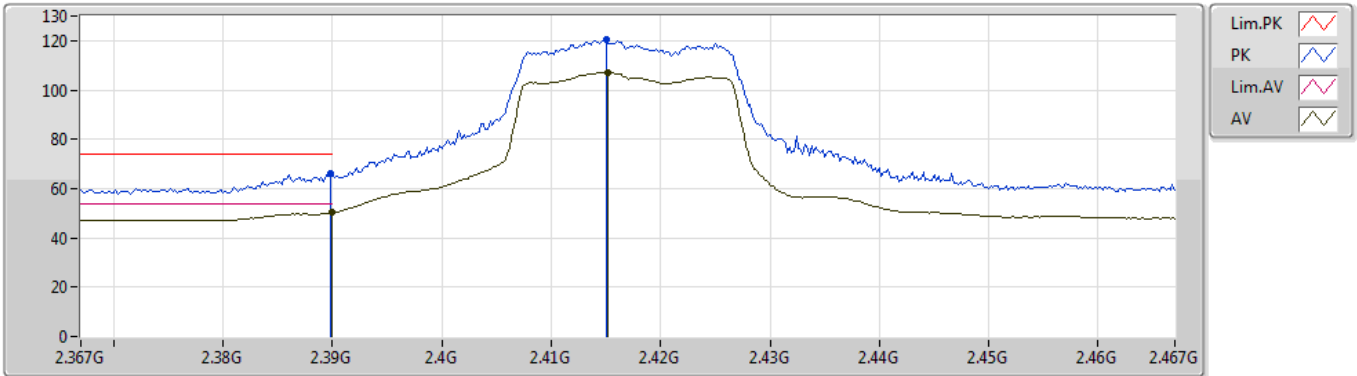
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Setting 20.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82312G	48.43	74.00	-25.57	7.16	3	Horizontal	167	1.67	-				
AV	4.82312G	34.65	54.00	-19.35	7.16	3	Horizontal	167	1.67	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2417MHz_TX



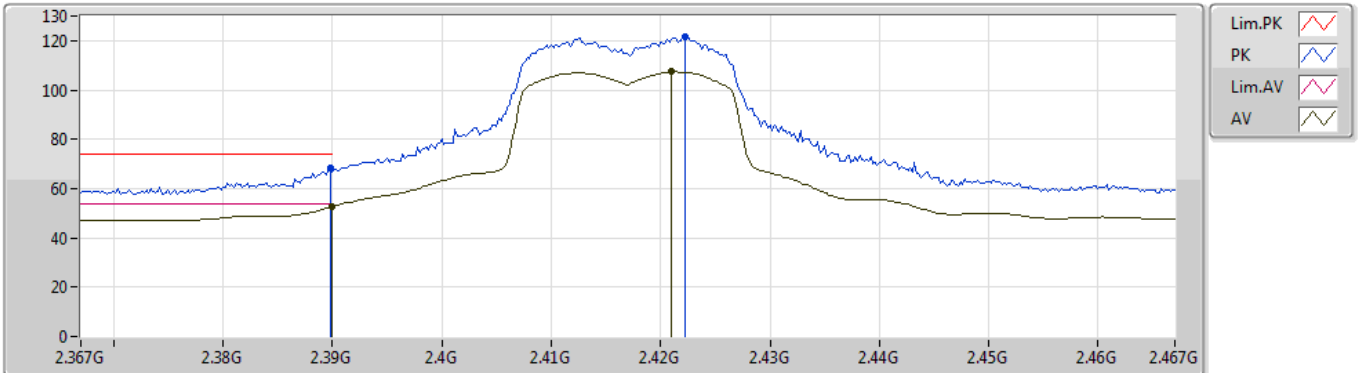
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Setting 22.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	66.10	74.00	-7.90	31.20	3	Vertical	318	1.03	-				
AV	2.39G	50.20	54.00	-3.80	31.20	3	Vertical	318	1.03	-				
PK	2.415G	120.29	Inf	-Inf	31.26	3	Vertical	318	1.03	-				
AV	2.4152G	106.83	Inf	-Inf	31.26	3	Vertical	318	1.03	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2417MHz_TX



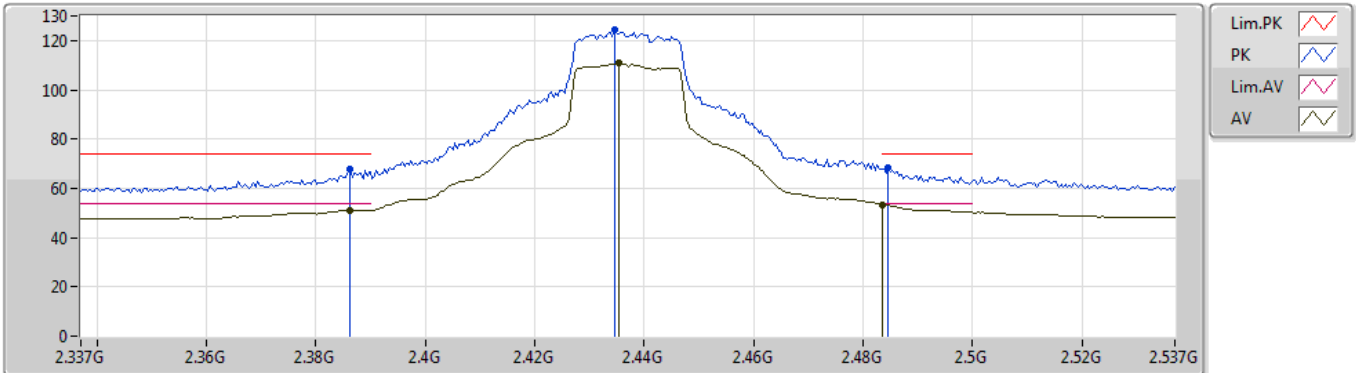
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Setting 22.5
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	68.20	74.00	-5.80	31.20	3	Horizontal	167	2.98	-				
AV	2.39G	52.62	54.00	-1.38	31.20	3	Horizontal	167	2.98	-				
PK	2.4222G	121.57	Inf	-Inf	31.28	3	Horizontal	167	2.98	-				
AV	2.421G	107.36	Inf	-Inf	31.27	3	Horizontal	167	2.98	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



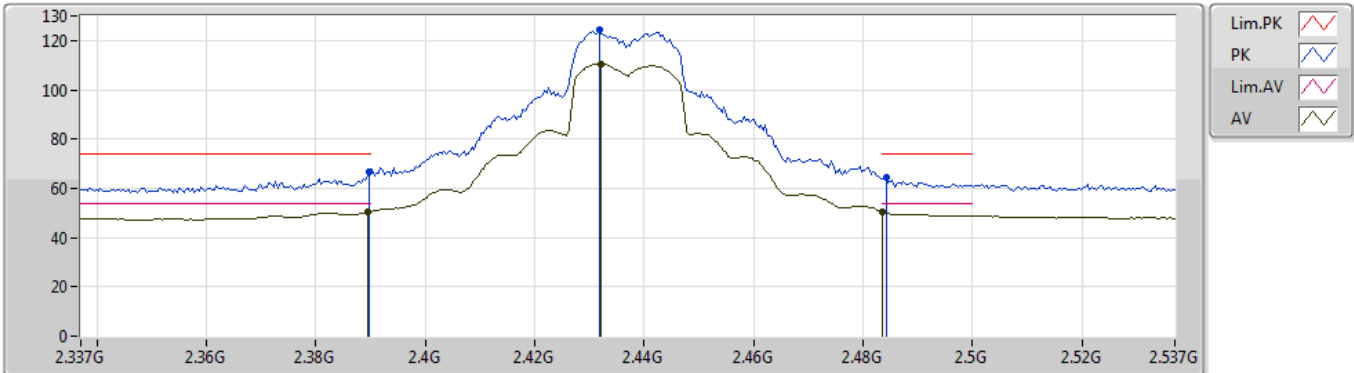
EUT Z_2TX
Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3862G	67.80	74.00	-6.20	31.20	3	Vertical	331	1.47	-
AV	2.3862G	51.21	54.00	-2.79	31.20	3	Vertical	331	1.47	-
PK	2.4346G	124.12	Inf	-Inf	31.30	3	Vertical	331	1.47	-
AV	2.4354G	110.76	Inf	-Inf	31.30	3	Vertical	331	1.47	-
PK	2.4846G	68.46	74.00	-5.54	31.40	3	Vertical	331	1.47	-
AV	2.4835G	53.48	54.00	-0.52	31.39	3	Vertical	331	1.47	-

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



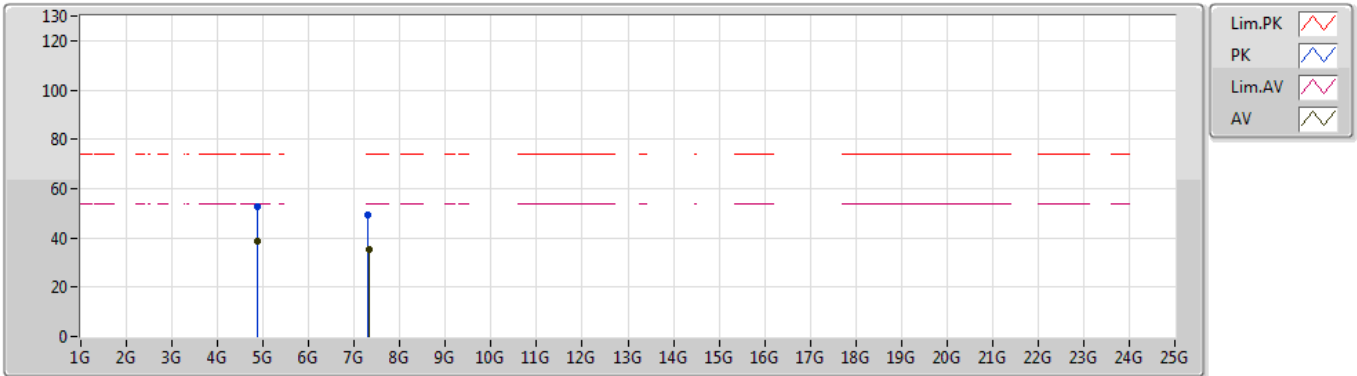
EUT Z_2TX
Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3898G	66.77	74.00	-7.23	31.20	3	Horizontal	166	2.99	-
AV	2.3894G	50.48	54.00	-3.52	31.20	3	Horizontal	166	2.99	-
PK	2.4318G	124.20	Inf	-Inf	31.29	3	Horizontal	166	2.99	-
AV	2.4322G	110.63	Inf	-Inf	31.29	3	Horizontal	166	2.99	-
PK	2.4842G	64.49	74.00	-9.51	31.39	3	Horizontal	166	2.99	-
AV	2.4835G	50.30	54.00	-3.70	31.39	3	Horizontal	166	2.99	-

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



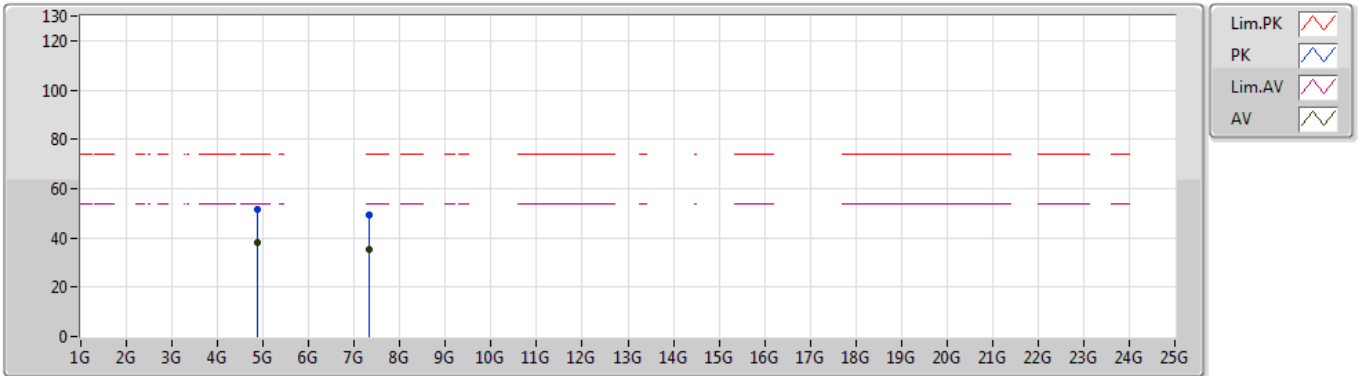
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Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87376G	52.86	74.00	-21.14	7.28	3	Vertical	143	2.15	-				
AV	4.87368G	38.46	54.00	-15.54	7.28	3	Vertical	143	2.15	-				
PK	7.3097G	49.49	74.00	-24.51	10.54	3	Vertical	158	1.82	-				
AV	7.3122G	35.23	54.00	-18.77	10.55	3	Vertical	158	1.82	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



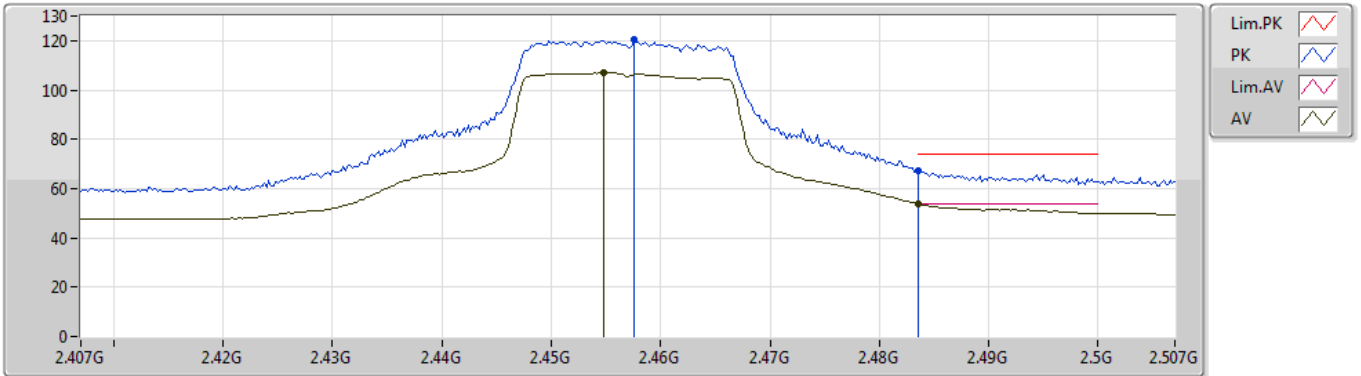
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Setting 26
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87392G	51.45	74.00	-22.55	7.28	3	Horizontal	171	1.64	-				
AV	4.874G	38.31	54.00	-15.69	7.28	3	Horizontal	171	1.64	-				
PK	7.31908G	49.05	74.00	-24.95	10.57	3	Horizontal	241	1.40	-				
AV	7.32276G	35.27	54.00	-18.73	10.59	3	Horizontal	241	1.40	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2457MHz_TX



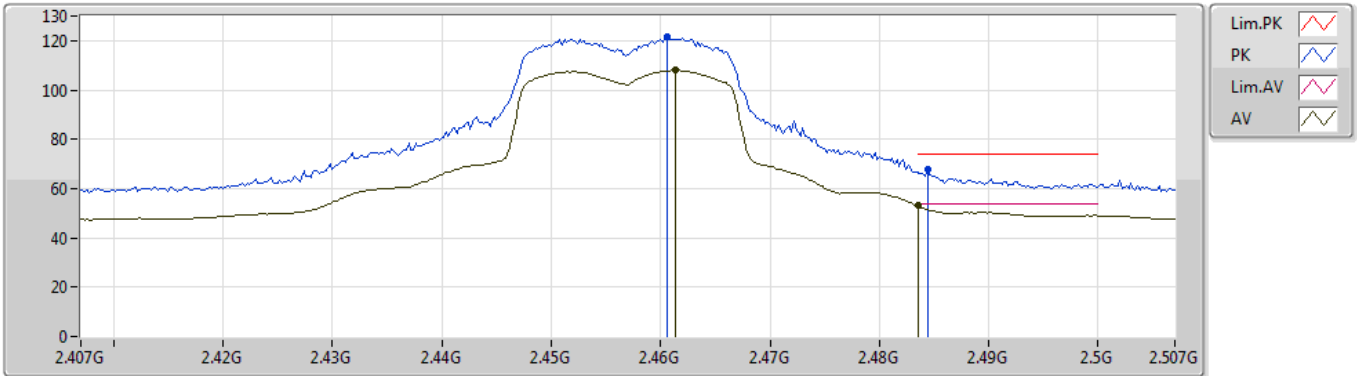
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Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.4576G	120.57	Inf	-Inf	31.34	3	Vertical	319	1.28	-				
AV	2.4548G	106.89	Inf	-Inf	31.34	3	Vertical	319	1.28	-				
PK	2.4835G	67.48	74.00	-6.52	31.39	3	Vertical	319	1.28	-				
AV	2.4835G	53.89	54.00	-0.11	31.39	3	Vertical	319	1.28	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2457MHz_TX



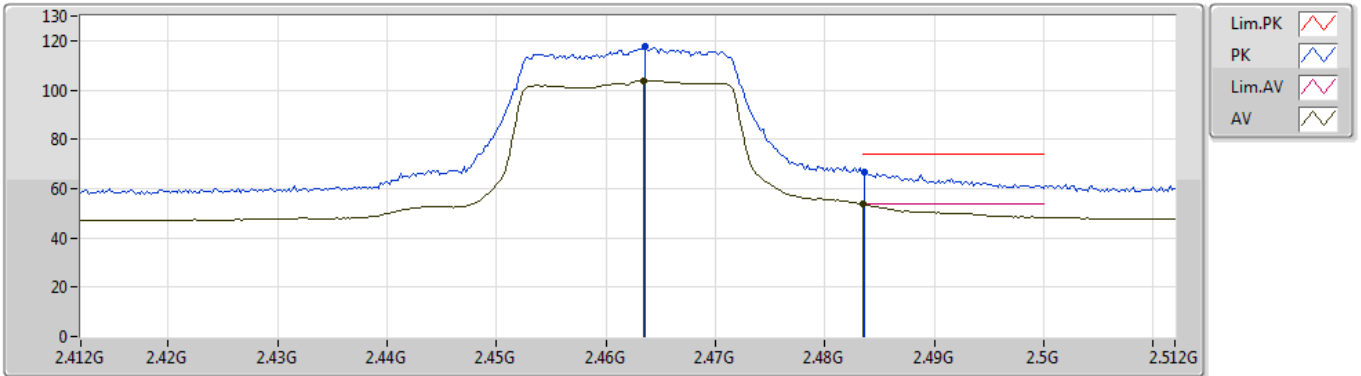
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Setting 23
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.4606G	121.40	Inf	-Inf	31.35	3	Horizontal	163	2.94	-
AV	2.4614G	107.94	Inf	-Inf	31.35	3	Horizontal	163	2.94	-
PK	2.4844G	67.89	74.00	-6.11	31.40	3	Horizontal	163	2.94	-
AV	2.4835G	53.16	54.00	-0.84	31.39	3	Horizontal	163	2.94	-

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2462MHz_TX



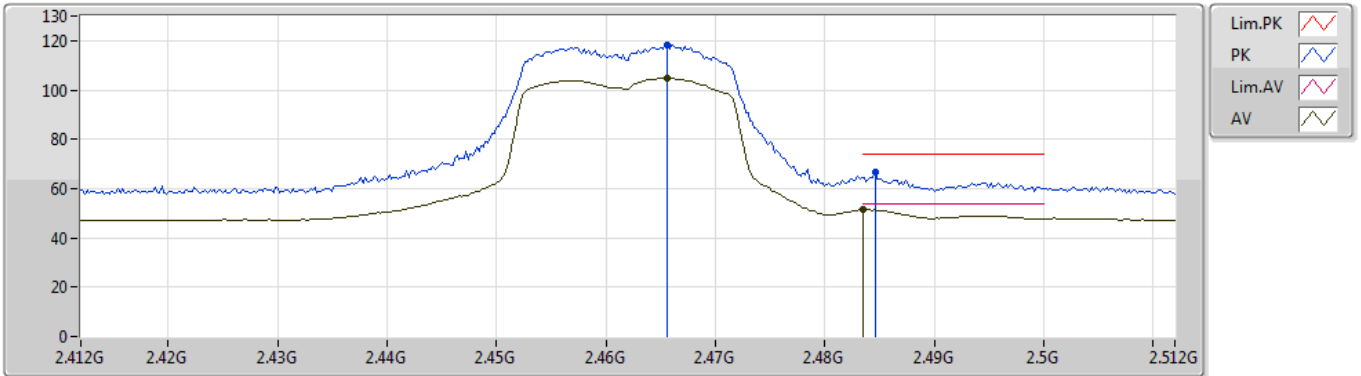
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.4636G	117.53	Inf	-Inf	31.36	3	Vertical	343	1.76	-
AV	2.4634G	103.91	Inf	-Inf	31.36	3	Vertical	343	1.76	-
PK	2.4836G	66.96	74.00	-7.04	31.39	3	Vertical	343	1.76	-
AV	2.4835G	53.78	54.00	-0.22	31.39	3	Vertical	343	1.76	-

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2462MHz_TX



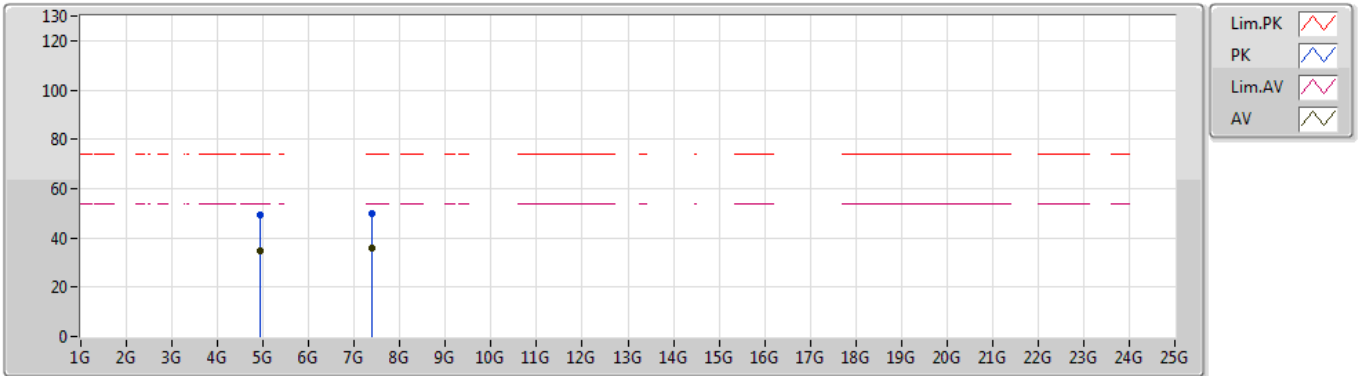
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.4656G	118.34	Inf	-Inf	31.36	3	Horizontal	169	2.94	-
AV	2.4656G	104.66	Inf	-Inf	31.36	3	Horizontal	169	2.94	-
PK	2.4846G	66.51	74.00	-7.49	31.40	3	Horizontal	169	2.94	-
AV	2.4835G	51.49	54.00	-2.51	31.39	3	Horizontal	169	2.94	-

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2462MHz_TX



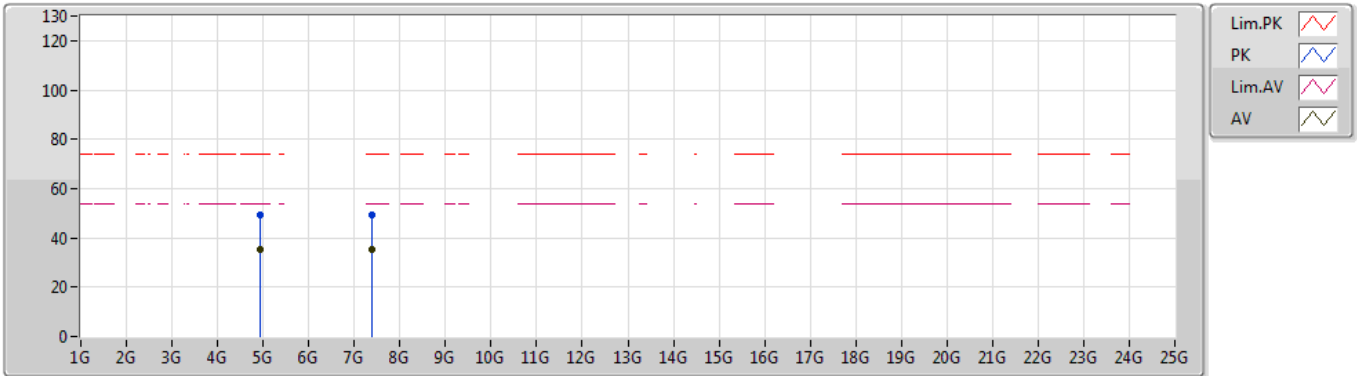
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9224G	49.31	74.00	-24.69	7.39	3	Vertical	335	1.43	-				
AV	4.9228G	34.72	54.00	-19.28	7.39	3	Vertical	335	1.43	-				
PK	7.38216G	49.67	74.00	-24.33	10.75	3	Vertical	66	1.47	-				
AV	7.38144G	35.66	54.00	-18.34	10.75	3	Vertical	66	1.47	-				

802.11ax HEW20_Nss1,(MCS0)_2TX

20/06/2019

2462MHz_TX



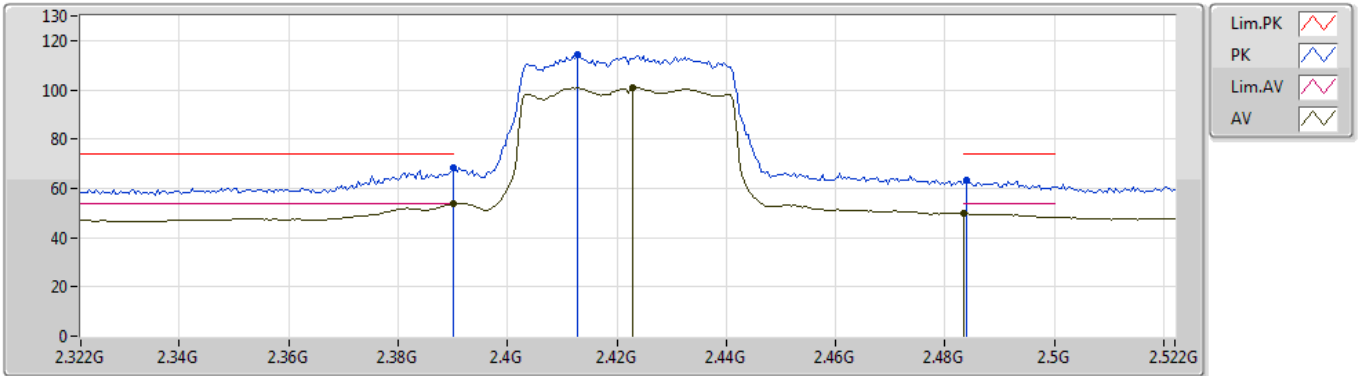
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9232G	49.06	74.00	-24.94	7.39	3	Horizontal	174	2.29	-				
AV	4.92384G	35.45	54.00	-18.55	7.40	3	Horizontal	174	2.29	-				
PK	7.38644G	49.47	74.00	-24.53	10.76	3	Horizontal	37	1.96	-				
AV	7.38368G	35.51	54.00	-18.49	10.75	3	Horizontal	37	1.96	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2422MHz_TX



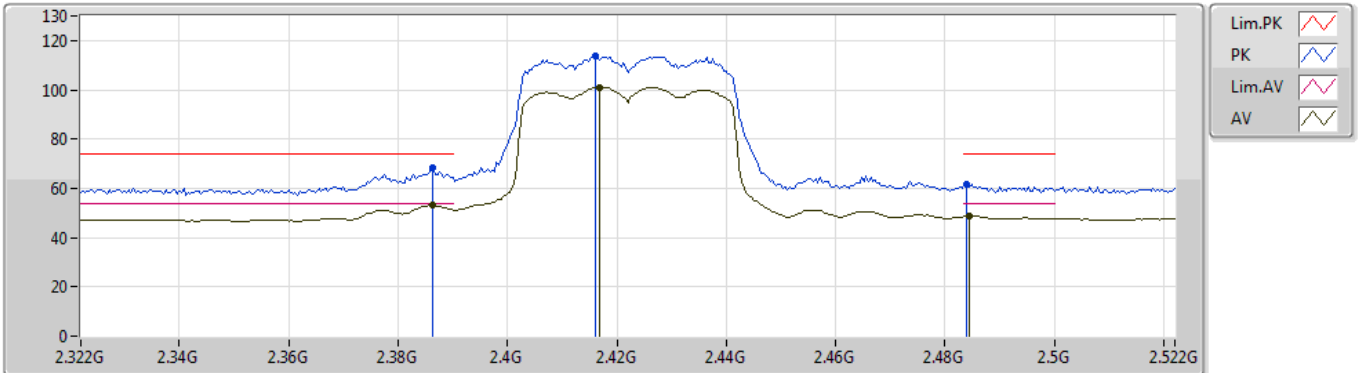
EUT_Z_2TX
Setting 19
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.39G	68.43	74.00	-5.57	31.20	3	Vertical	334	1.28	-				
AV	2.39G	53.87	54.00	-0.13	31.20	3	Vertical	334	1.28	-				
PK	2.4128G	114.19	Inf	-Inf	31.26	3	Vertical	334	1.28	-				
AV	2.4228G	100.93	Inf	-Inf	31.28	3	Vertical	334	1.28	-				
PK	2.484G	63.11	74.00	-10.89	31.39	3	Vertical	334	1.28	-				
AV	2.4835G	49.75	54.00	-4.25	31.39	3	Vertical	334	1.28	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2422MHz_TX



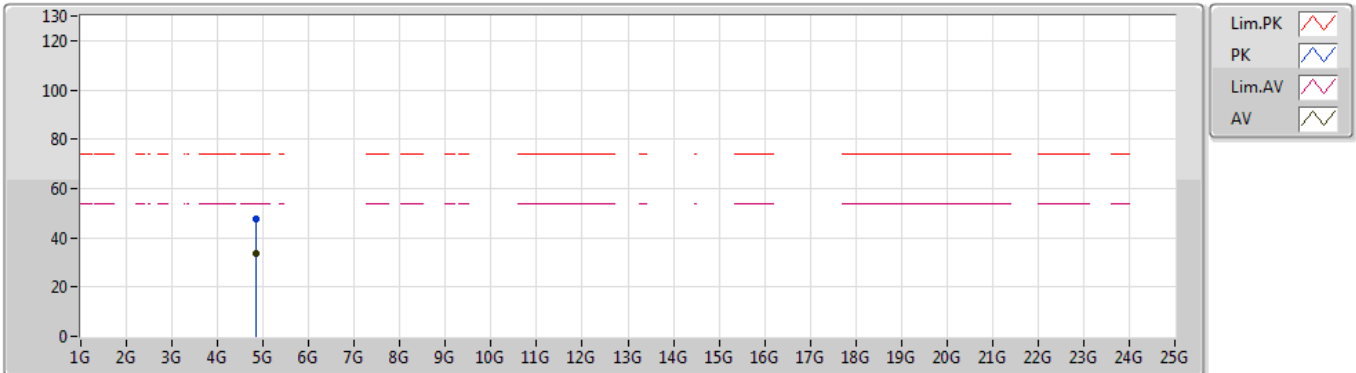
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Setting 19
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	2.3864G	68.56	74.00	-5.44	31.20	3	Horizontal	166	2.98	-			
AV	2.3864G	53.28	54.00	-0.72	31.20	3	Horizontal	166	2.98	-			
PK	2.416G	113.84	Inf	-Inf	31.27	3	Horizontal	166	2.98	-			
AV	2.4168G	101.09	Inf	-Inf	31.27	3	Horizontal	166	2.98	-			
PK	2.484G	61.71	74.00	-12.29	31.39	3	Horizontal	166	2.98	-			
AV	2.4844G	48.63	54.00	-5.37	31.40	3	Horizontal	166	2.98	-			

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2422MHz_TX



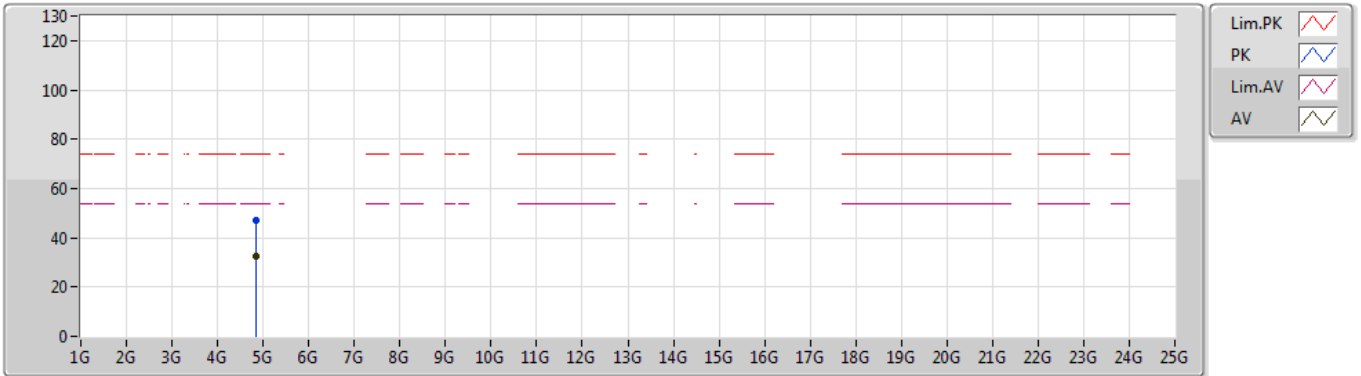
EUT_Z_2TX
Setting 19
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.8428G	47.61	74.00	-26.39	7.21	3	Vertical	146	2.28	-				
AV	4.84384G	33.43	54.00	-20.57	7.21	3	Vertical	146	2.28	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2422MHz_TX



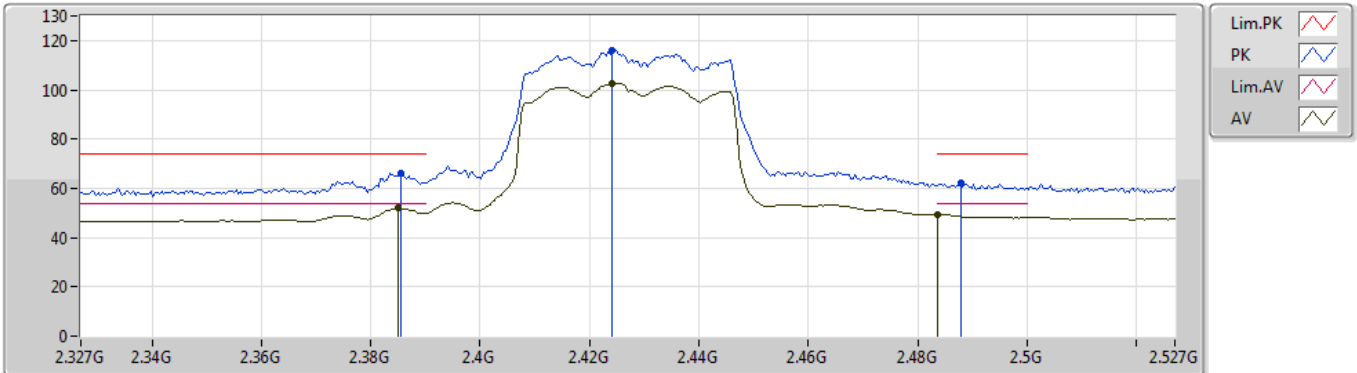
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Setting 19
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.84468G	46.91	74.00	-27.09	7.21	3	Horizontal	161	1.87	-				
AV	4.84332G	32.71	54.00	-21.29	7.21	3	Horizontal	161	1.87	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2427MHz_TX



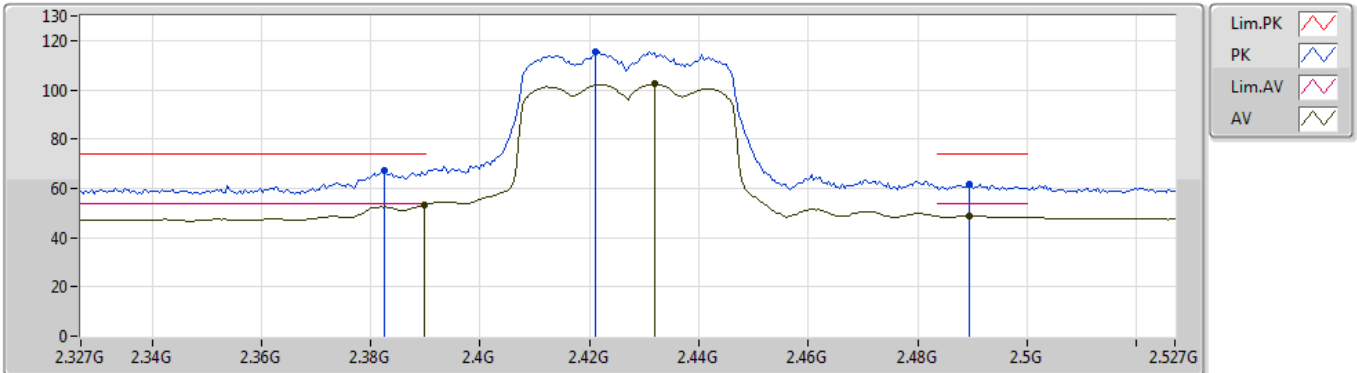
EUT Z_2TX
Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3854G	66.18	74.00	-7.82	31.19	3	Vertical	320	2.43	-
AV	2.385G	51.88	54.00	-2.12	31.19	3	Vertical	320	2.43	-
PK	2.4242G	116.18	Inf	-Inf	31.28	3	Vertical	320	2.43	-
AV	2.4242G	102.77	Inf	-Inf	31.28	3	Vertical	320	2.43	-
PK	2.4878G	61.92	74.00	-12.08	31.41	3	Vertical	320	2.43	-
AV	2.4835G	49.32	54.00	-4.68	31.39	3	Vertical	320	2.43	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2427MHz_TX



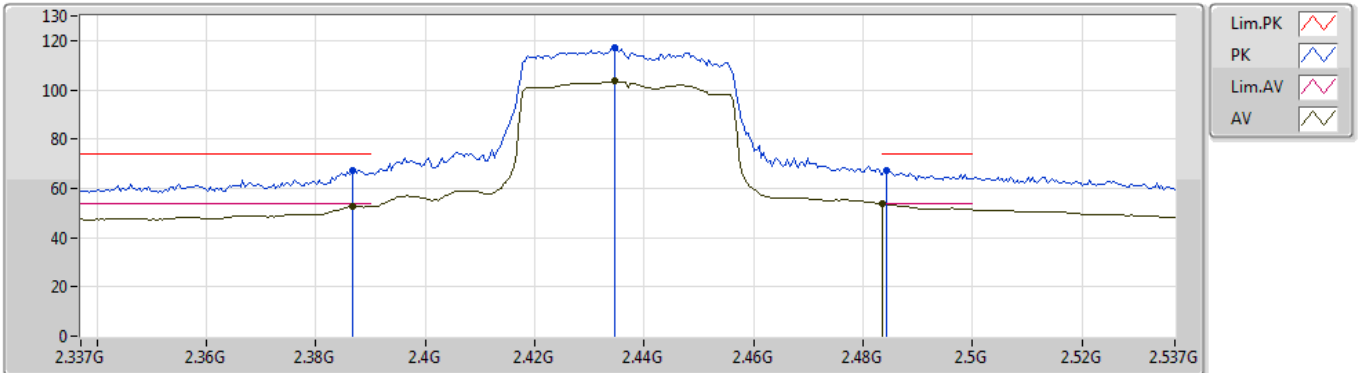
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3826G	67.40	74.00	-6.60	31.19	3	Horizontal	165	2.98	-
AV	2.3898G	53.20	54.00	-0.80	31.20	3	Horizontal	165	2.98	-
PK	2.421G	115.52	Inf	-Inf	31.27	3	Horizontal	165	2.98	-
AV	2.4318G	102.29	Inf	-Inf	31.29	3	Horizontal	165	2.98	-
PK	2.4894G	61.63	74.00	-12.37	31.41	3	Horizontal	165	2.98	-
AV	2.4894G	48.72	54.00	-5.28	31.41	3	Horizontal	165	2.98	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



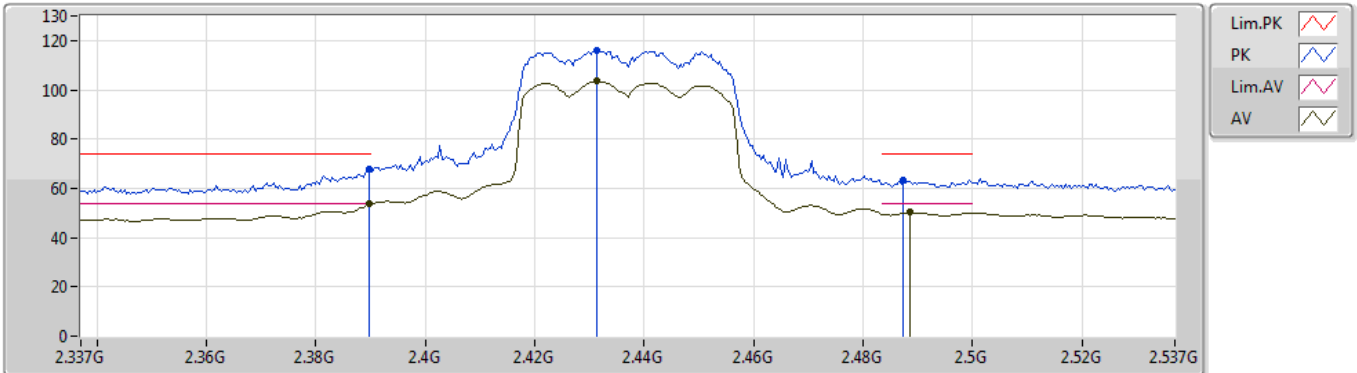
EUT Z_2TX
Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3866G	67.43	74.00	-6.57	31.20	3	Vertical	330	1.44	-				
AV	2.3866G	52.67	54.00	-1.33	31.20	3	Vertical	330	1.44	-				
PK	2.4346G	117.34	Inf	-Inf	31.30	3	Vertical	330	1.44	-				
AV	2.4346G	103.44	Inf	-Inf	31.30	3	Vertical	330	1.44	-				
PK	2.4842G	67.41	74.00	-6.59	31.39	3	Vertical	330	1.44	-				
AV	2.4835G	53.71	54.00	-0.29	31.39	3	Vertical	330	1.44	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



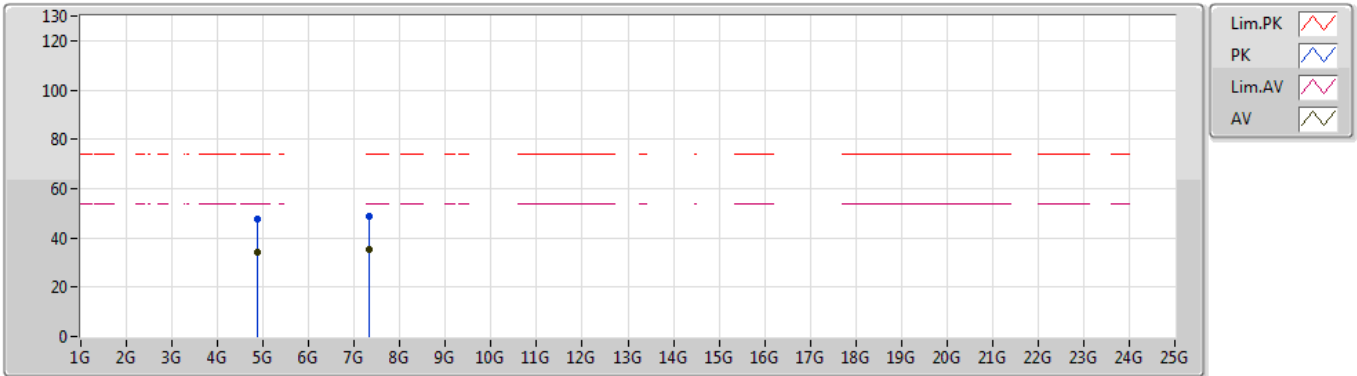
EUT Z_2TX
Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3898G	67.62	74.00	-6.38	31.20	3	Horizontal	166	3.00	-
AV	2.3898G	53.55	54.00	-0.45	31.20	3	Horizontal	166	3.00	-
PK	2.4314G	116.27	Inf	-Inf	31.29	3	Horizontal	166	3.00	-
AV	2.4314G	103.42	Inf	-Inf	31.29	3	Horizontal	166	3.00	-
PK	2.4874G	63.14	74.00	-10.86	31.40	3	Horizontal	166	3.00	-
AV	2.4886G	50.21	54.00	-3.79	31.41	3	Horizontal	166	3.00	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



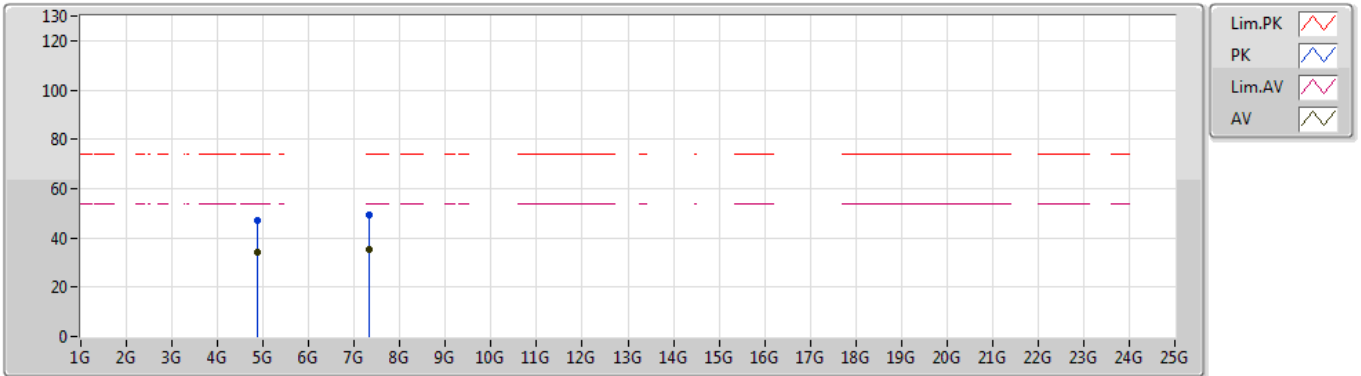
EUT_Z_2TX
Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87328G	47.74	74.00	-26.26	7.28	3	Vertical	150	2.25	-				
AV	4.874G	34.33	54.00	-19.67	7.28	3	Vertical	150	2.25	-				
PK	7.31476G	49.02	74.00	-24.98	10.56	3	Vertical	185	1.62	-				
AV	7.31116G	35.30	54.00	-18.70	10.54	3	Vertical	185	1.62	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2437MHz_TX



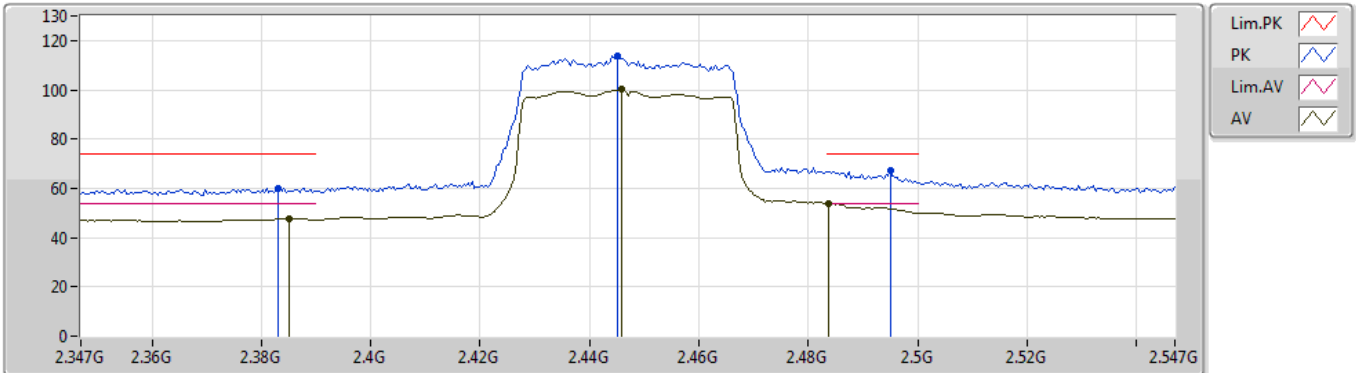
EUT_Z_2TX
Setting 21
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.8746G	47.29	74.00	-26.71	7.28	3	Horizontal	163	1.63	-				
AV	4.87384G	34.06	54.00	-19.94	7.28	3	Horizontal	163	1.63	-				
PK	7.3112G	49.43	74.00	-24.57	10.54	3	Horizontal	272	1.59	-				
AV	7.31168G	35.18	54.00	-18.82	10.55	3	Horizontal	272	1.59	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2447MHz_TX



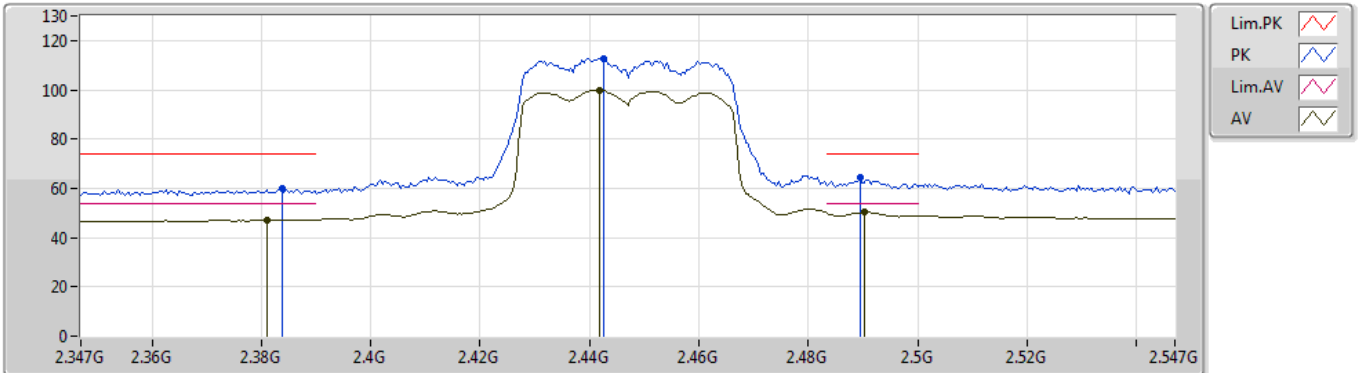
EUT_Z_2TX
Setting 18
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.383G	60.12	74.00	-13.88	31.19	3	Vertical	312	1.79	-
AV	2.385G	47.63	54.00	-6.37	31.19	3	Vertical	312	1.79	-
PK	2.445G	113.86	Inf	-Inf	31.32	3	Vertical	312	1.79	-
AV	2.4458G	100.10	Inf	-Inf	31.32	3	Vertical	312	1.79	-
PK	2.495G	67.02	74.00	-6.98	31.42	3	Vertical	312	1.79	-
AV	2.4838G	53.88	54.00	-0.12	31.39	3	Vertical	312	1.79	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2447MHz_TX



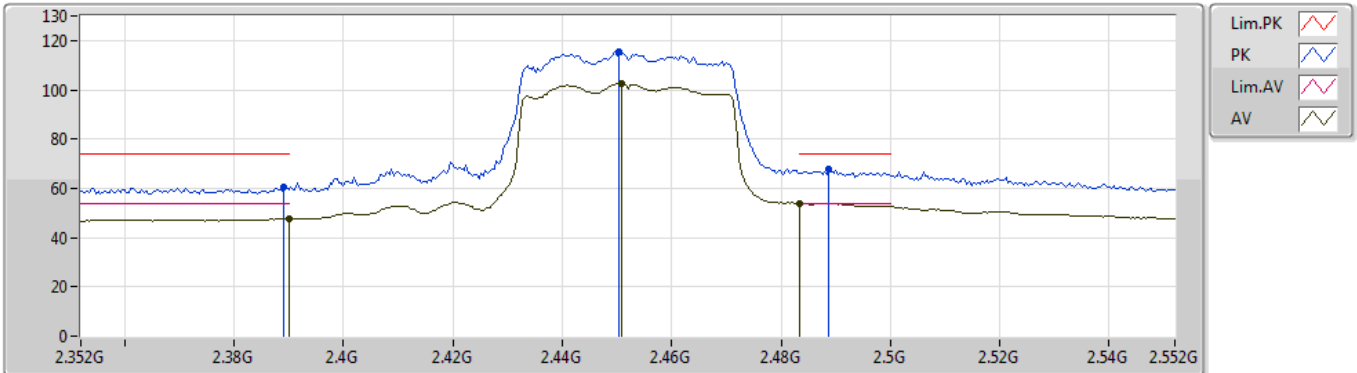
EUT_Z_2TX
Setting 18
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3838G	60.19	74.00	-13.81	31.19	3	Horizontal	169	2.71	-
AV	2.381G	47.28	54.00	-6.72	31.19	3	Horizontal	169	2.71	-
PK	2.4426G	112.89	Inf	-Inf	31.32	3	Horizontal	169	2.71	-
AV	2.4418G	99.88	Inf	-Inf	31.32	3	Horizontal	169	2.71	-
PK	2.4894G	64.44	74.00	-9.56	31.41	3	Horizontal	169	2.71	-
AV	2.4902G	50.36	54.00	-3.64	31.41	3	Horizontal	169	2.71	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2452MHz_TX



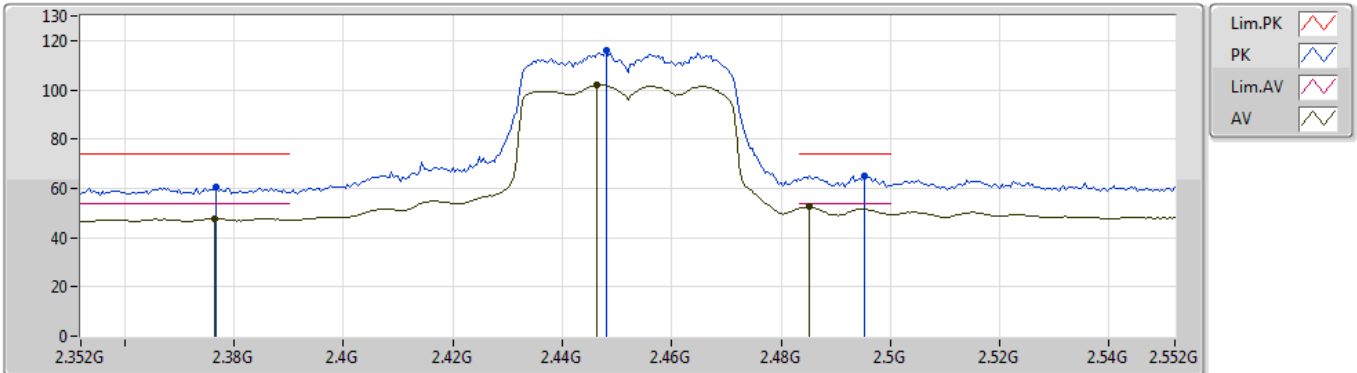
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3892G	60.52	74.00	-13.48	31.20	3	Vertical	326	2.18	-
AV	2.39G	47.90	54.00	-6.10	31.20	3	Vertical	326	2.18	-
PK	2.4504G	115.55	Inf	-Inf	31.33	3	Vertical	326	2.18	-
AV	2.4508G	102.68	Inf	-Inf	31.33	3	Vertical	326	2.18	-
PK	2.4888G	67.82	74.00	-6.18	31.41	3	Vertical	326	2.18	-
AV	2.4835G	53.84	54.00	-0.16	31.39	3	Vertical	326	2.18	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2452MHz_TX



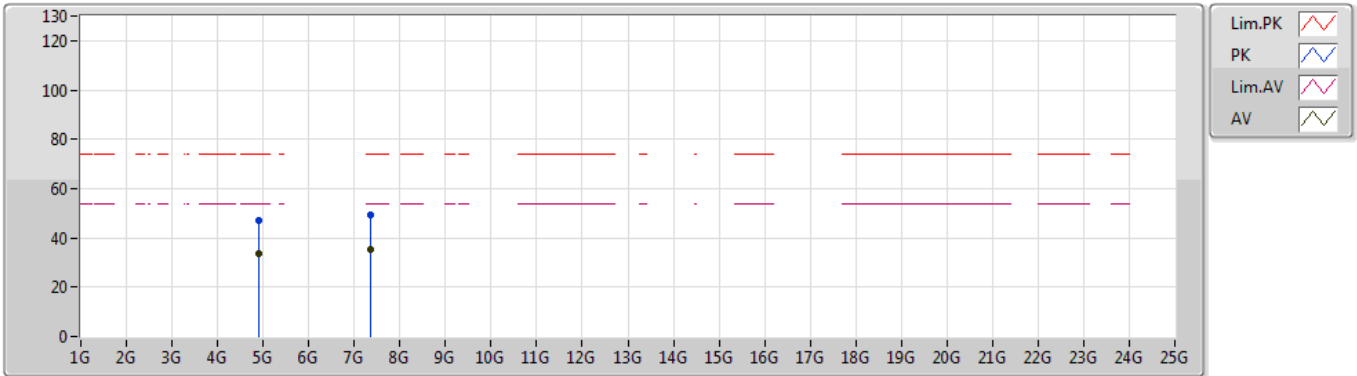
EUT_Z_2TX
Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3768G	60.64	74.00	-13.36	31.17	3	Horizontal	164	2.94	-
AV	2.3764G	47.74	54.00	-6.26	31.17	3	Horizontal	164	2.94	-
PK	2.448G	115.81	Inf	-Inf	31.33	3	Horizontal	164	2.94	-
AV	2.4464G	101.96	Inf	-Inf	31.32	3	Horizontal	164	2.94	-
PK	2.4952G	65.02	74.00	-8.98	31.42	3	Horizontal	164	2.94	-
AV	2.4852G	52.42	54.00	-1.58	31.40	3	Horizontal	164	2.94	-

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2452MHz_TX



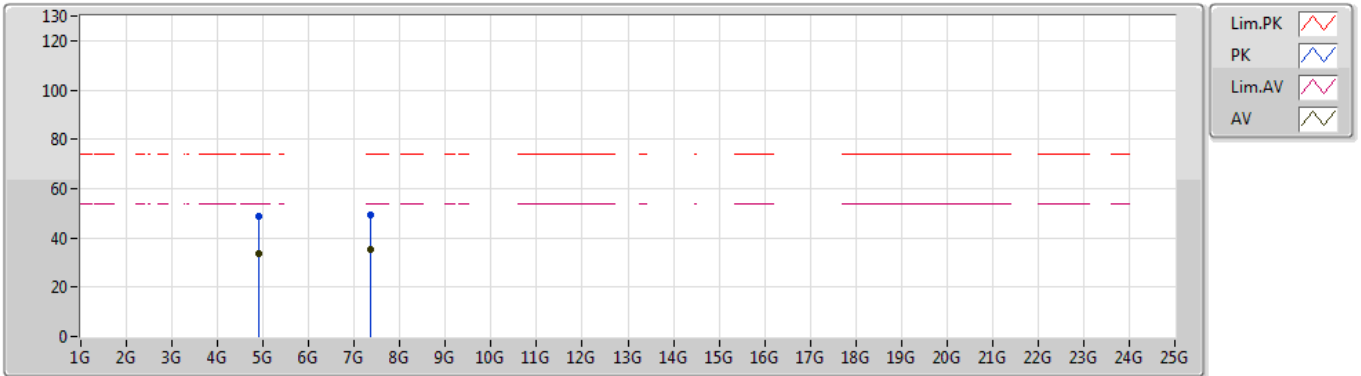
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.90344G	47.17	74.00	-26.83	7.36	3	Vertical	144	2.36	-				
AV	4.90312G	33.80	54.00	-20.20	7.36	3	Vertical	144	2.36	-				
PK	7.35656G	49.24	74.00	-24.76	10.68	3	Vertical	224	2.41	-				
AV	7.3553G	35.21	54.00	-18.79	10.68	3	Vertical	224	2.41	-				

802.11ax HEW40_Nss1,(MCS0)_2TX

20/06/2019

2452MHz_TX



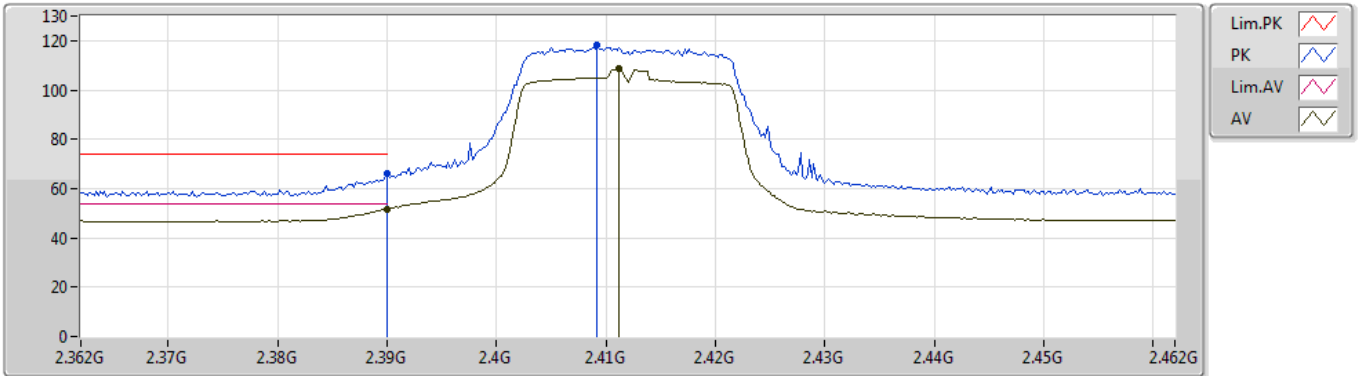
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Setting 20
02-B-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.91464G	48.68	74.00	-25.32	7.38	3	Horizontal	172	1.77	-				
AV	4.90272G	33.66	54.00	-20.34	7.36	3	Horizontal	172	1.77	-				
PK	7.35528G	49.15	74.00	-24.85	10.68	3	Horizontal	166	1.17	-				
AV	7.35976G	35.48	54.00	-18.52	10.68	3	Horizontal	166	1.17	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2412MHz_TX



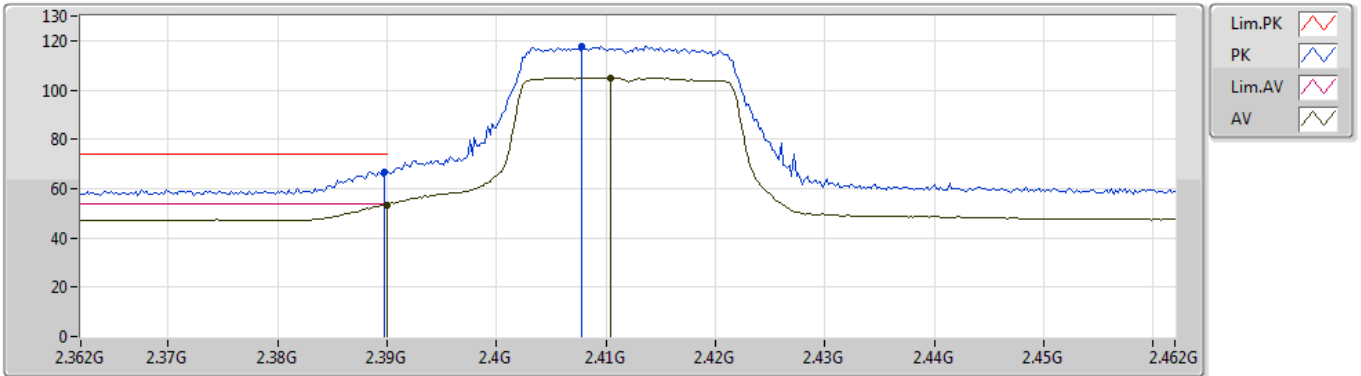
EUT_Z_2TX
Setting 23
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	2.39G	66.16	74.00	-7.84	31.20	3	Vertical	193	2.27	-			
AV	2.39G	51.53	54.00	-2.47	31.20	3	Vertical	193	2.27	-			
PK	2.4092G	118.00	Inf	-Inf	31.24	3	Vertical	193	2.27	-			
AV	2.4112G	108.50	Inf	-Inf	31.25	3	Vertical	193	2.27	-			

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2412MHz_TX



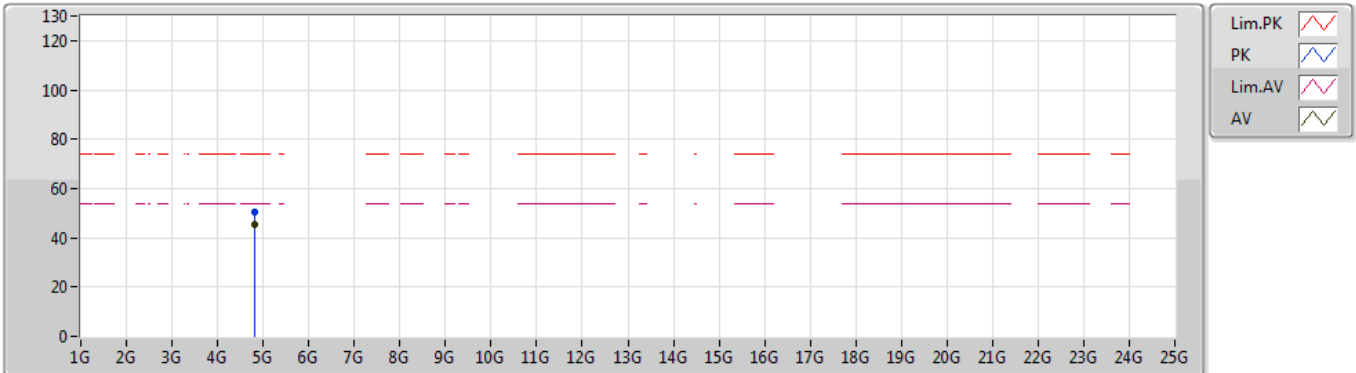
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Setting 23
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3898G	66.95	74.00	-7.05	31.20	3	Horizontal	8	2.82	-				
AV	2.39G	53.48	54.00	-0.52	31.20	3	Horizontal	8	2.82	-				
PK	2.4078G	117.71	Inf	-Inf	31.24	3	Horizontal	8	2.82	-				
AV	2.4104G	105.03	Inf	-Inf	31.25	3	Horizontal	8	2.82	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2412MHz_TX



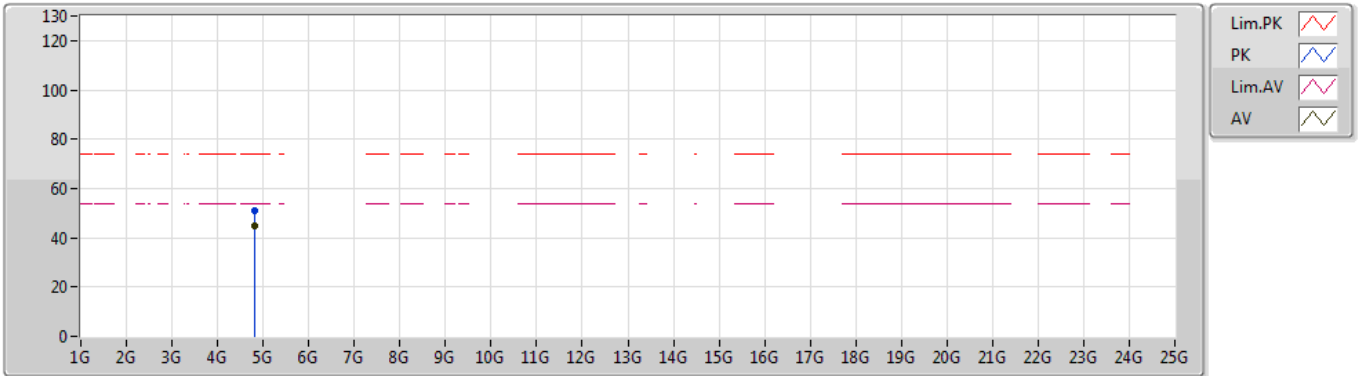
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Setting 23
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82376G	50.43	74.00	-23.57	7.17	3	Vertical	139	2.64	-				
AV	4.82418G	45.20	54.00	-8.80	7.17	3	Vertical	139	2.64	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2412MHz_TX



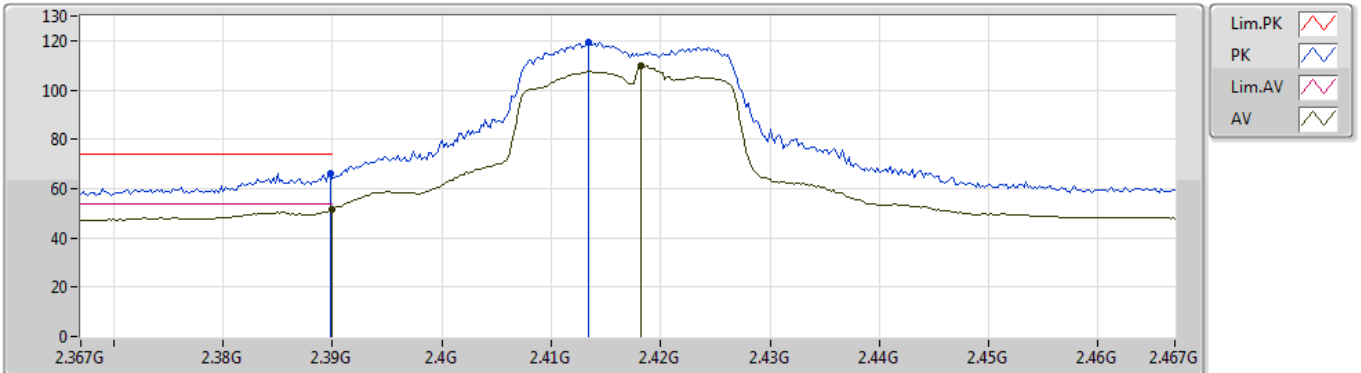
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Setting 23
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.82398G	51.21	74.00	-22.79	7.17	3	Horizontal	146	2.38	-				
AV	4.82418G	44.86	54.00	-9.14	7.17	3	Horizontal	146	2.38	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2417MHz_TX



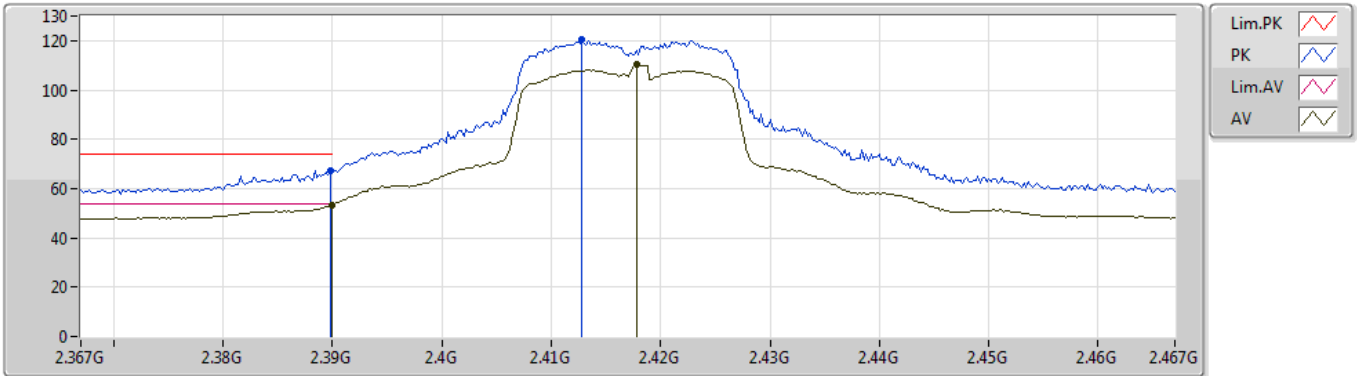
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Setting 26
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	2.3898G	66.27	74.00	-7.73	31.20	3	Vertical	95	1.77	-			
AV	2.39G	51.69	54.00	-2.31	31.20	3	Vertical	95	1.77	-			
PK	2.4134G	119.50	Inf	-Inf	31.26	3	Vertical	95	1.77	-			
AV	2.4182G	109.68	Inf	-Inf	31.27	3	Vertical	95	1.77	-			

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2417MHz_TX



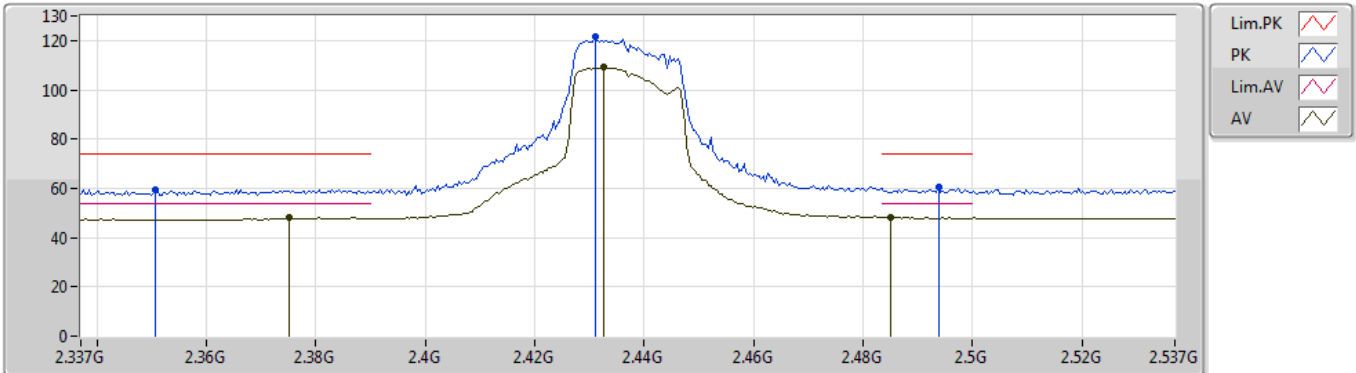
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Setting 26
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3898G	67.27	74.00	-6.73	31.20	3	Horizontal	148	2.98	-
AV	2.39G	53.36	54.00	-0.64	31.20	3	Horizontal	148	2.98	-
PK	2.4128G	120.50	Inf	-Inf	31.26	3	Horizontal	148	2.98	-
AV	2.4178G	110.29	Inf	-Inf	31.27	3	Horizontal	148	2.98	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



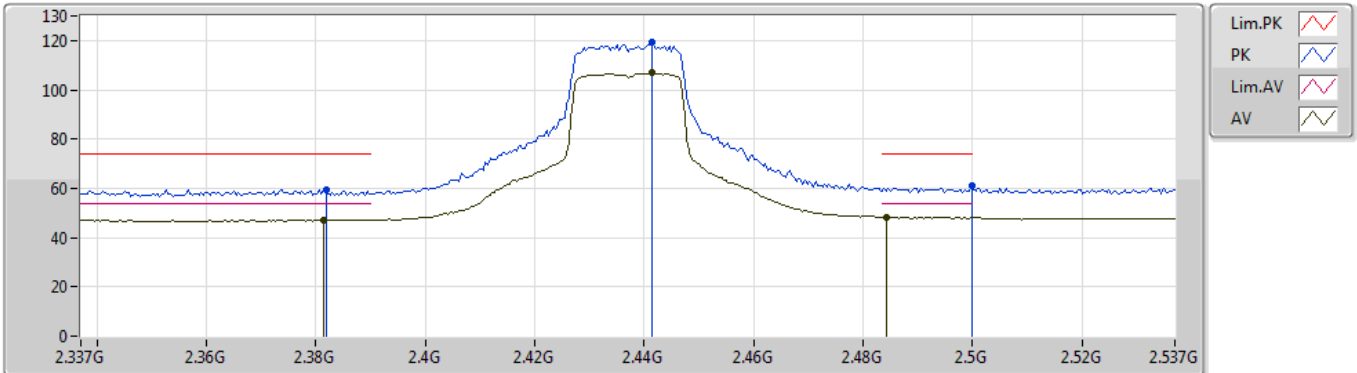
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Setting 26
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3506G	59.47	74.00	-14.53	31.11	3	Vertical	52	1.47	-
AV	2.375G	47.96	54.00	-6.04	31.17	3	Vertical	52	1.47	-
PK	2.431G	121.72	Inf	-Inf	31.29	3	Vertical	52	1.47	-
AV	2.4326G	109.04	Inf	-Inf	31.29	3	Vertical	52	1.47	-
PK	2.4938G	60.42	74.00	-13.58	31.42	3	Vertical	52	1.47	-
AV	2.485G	48.40	54.00	-5.60	31.40	3	Vertical	52	1.47	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



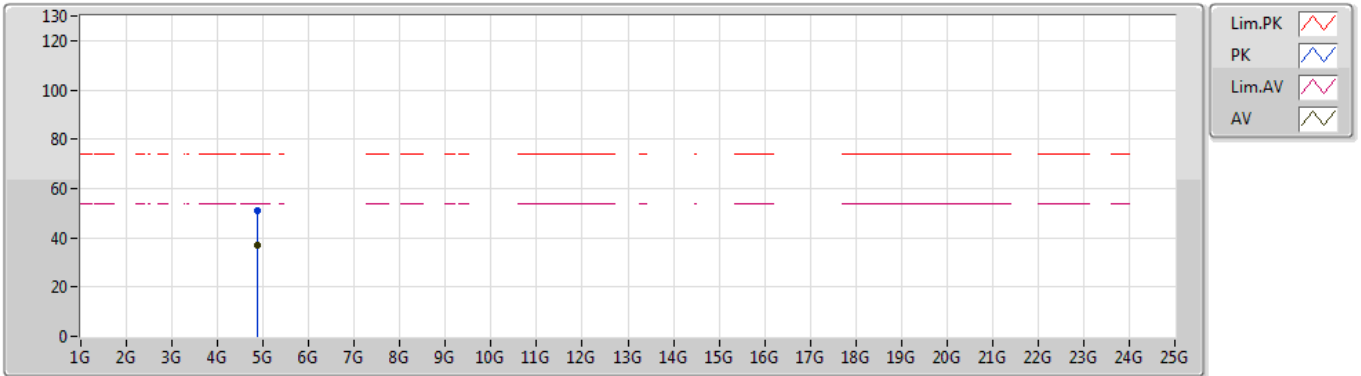
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Setting 26
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3818G	59.42	74.00	-14.58	31.19	3	Horizontal	283	2.95	-
AV	2.3814G	47.24	54.00	-6.76	31.19	3	Horizontal	283	2.95	-
PK	2.4414G	119.30	Inf	-Inf	31.32	3	Horizontal	283	2.95	-
AV	2.4414G	106.78	Inf	-Inf	31.32	3	Horizontal	283	2.95	-
PK	2.4998G	60.83	74.00	-13.17	31.43	3	Horizontal	283	2.95	-
AV	2.4842G	48.43	54.00	-5.57	31.39	3	Horizontal	283	2.95	-

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



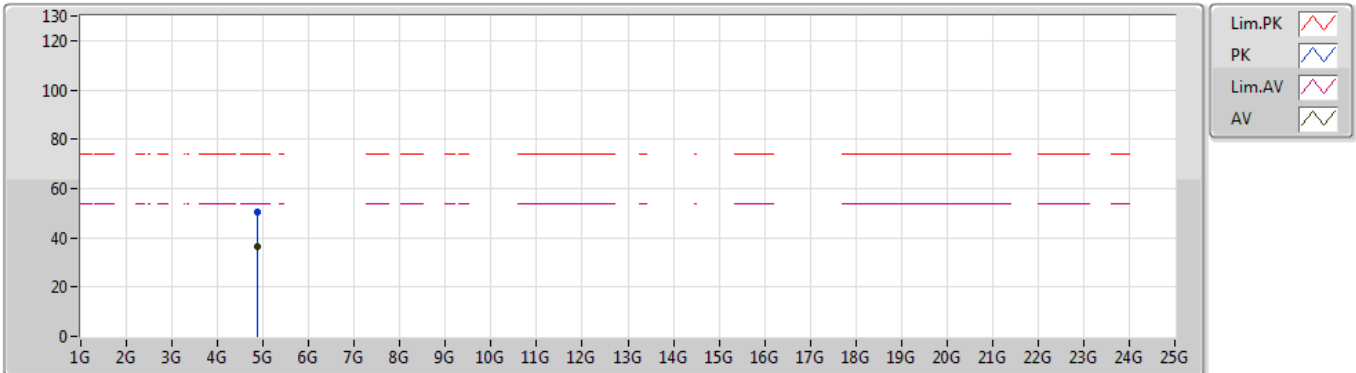
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Setting 26
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87194G	50.97	74.00	-23.03	7.28	3	Vertical	101	2.09	-				
AV	4.87114G	37.26	54.00	-16.74	7.28	3	Vertical	101	2.09	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



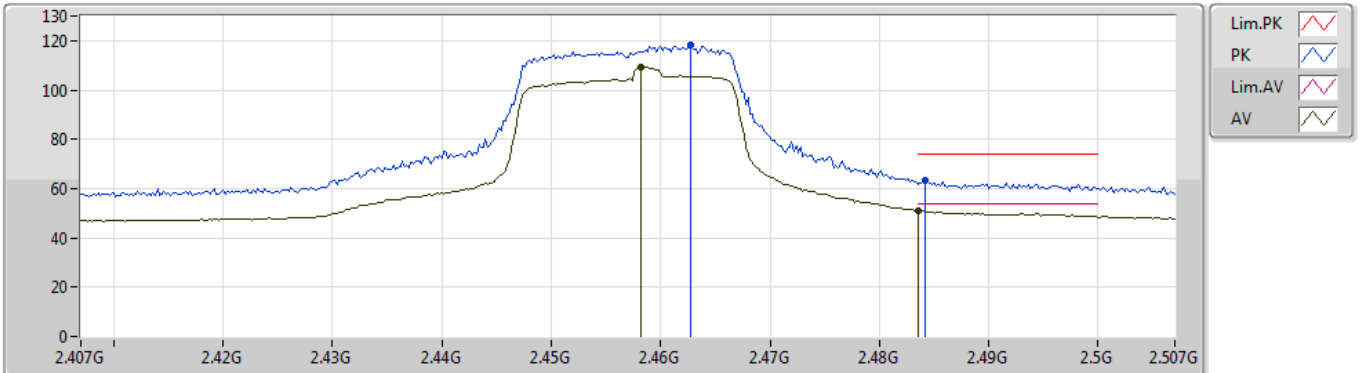
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Setting 26
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87174G	50.58	74.00	-23.42	7.28	3	Horizontal	31	1.43	-				
AV	4.87234G	36.26	54.00	-17.74	7.28	3	Horizontal	31	1.43	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2457MHz_TX



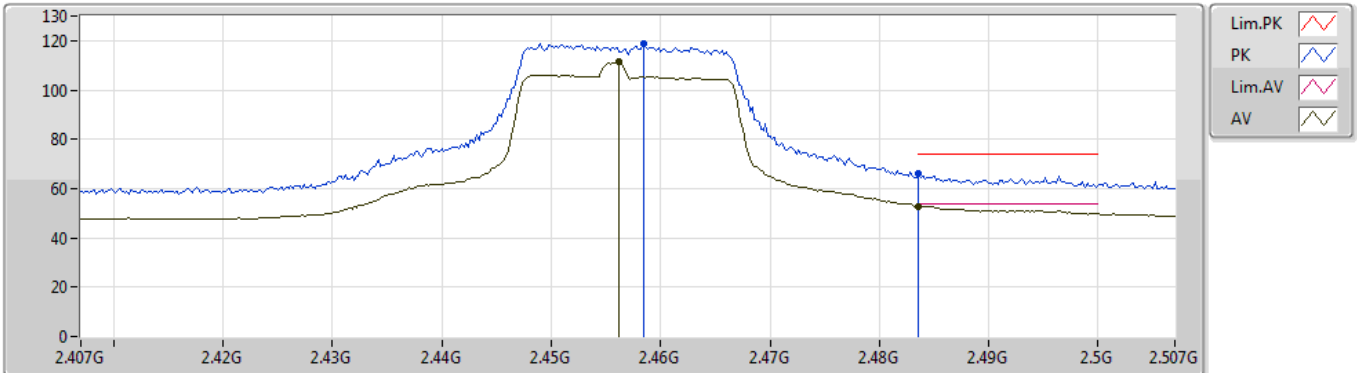
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Setting 25
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.4628G	118.24	Inf	-Inf	31.36	3	Vertical	103	1.50	-				
AV	2.4582G	109.40	Inf	-Inf	31.34	3	Vertical	103	1.50	-				
PK	2.4842G	63.15	74.00	-10.85	31.39	3	Vertical	103	1.50	-				
AV	2.4835G	51.12	54.00	-2.88	31.39	3	Vertical	103	1.50	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2457MHz_TX



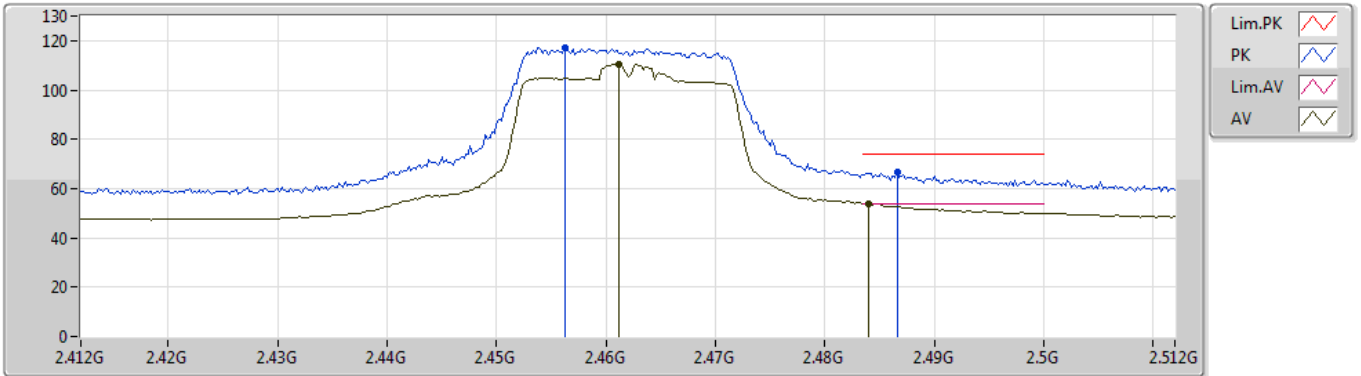
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Setting 25
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.4584G	118.65	Inf	-Inf	31.34	3	Horizontal	329	1.62	-				
AV	2.4562G	111.29	Inf	-Inf	31.34	3	Horizontal	329	1.62	-				
PK	2.4836G	66.15	74.00	-7.85	31.39	3	Horizontal	329	1.62	-				
AV	2.4835G	52.85	54.00	-1.15	31.39	3	Horizontal	329	1.62	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2462MHz_TX



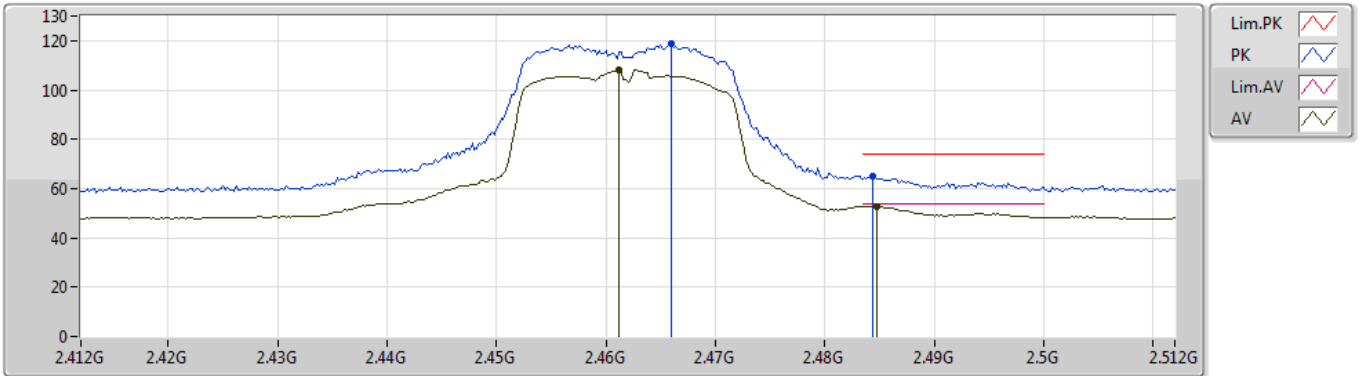
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Setting 24
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	2.4562G	116.98	Inf	-Inf	31.34	3	Vertical	285	1.30	-			
AV	2.4612G	110.65	Inf	-Inf	31.35	3	Vertical	285	1.30	-			
PK	2.4866G	66.56	74.00	-7.44	31.40	3	Vertical	285	1.30	-			
AV	2.484G	53.96	54.00	-0.04	31.39	3	Vertical	285	1.30	-			

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2462MHz_TX



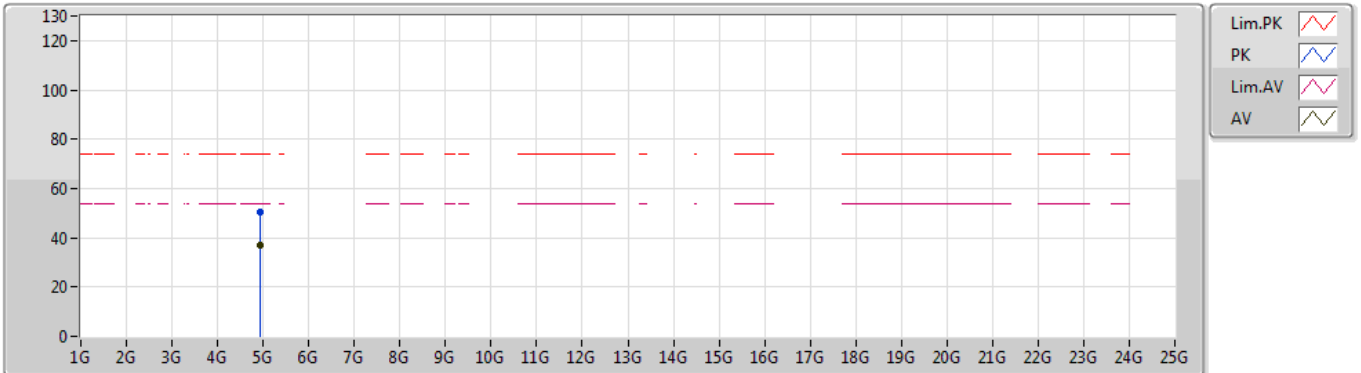
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Setting 24
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.466G	118.66	Inf	-Inf	31.37	3	Horizontal	139	2.97	-				
AV	2.4612G	108.06	Inf	-Inf	31.35	3	Horizontal	139	2.97	-				
PK	2.4844G	64.95	74.00	-9.05	31.40	3	Horizontal	139	2.97	-				
AV	2.4848G	52.66	54.00	-1.34	31.40	3	Horizontal	139	2.97	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2462MHz_TX



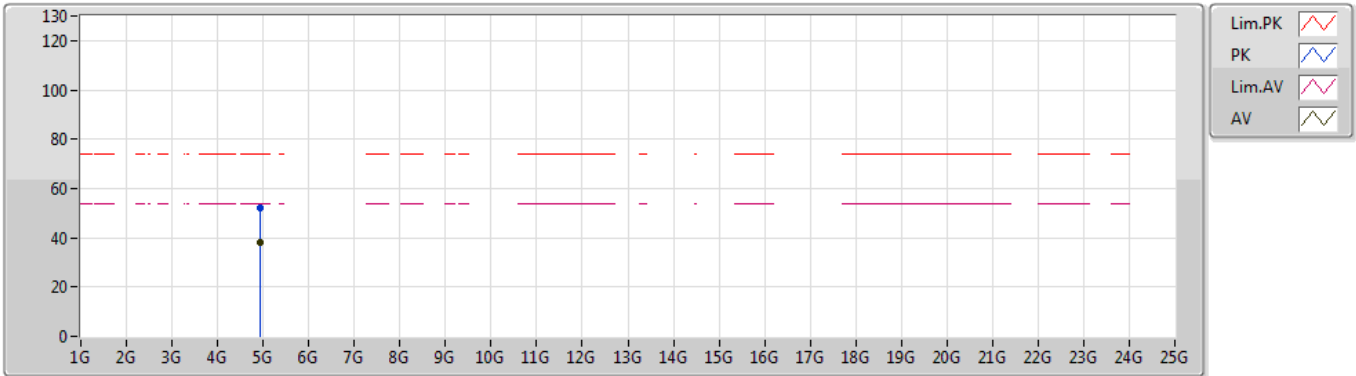
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Setting 24
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9216G	50.22	74.00	-23.78	7.39	3	Vertical	104	1.81	-				
AV	4.9278G	37.17	54.00	-16.83	7.42	3	Vertical	104	1.81	-				

802.11ax HEW20-BF_Nss1,(MCS0)_2TX

22/06/2019

2462MHz_TX



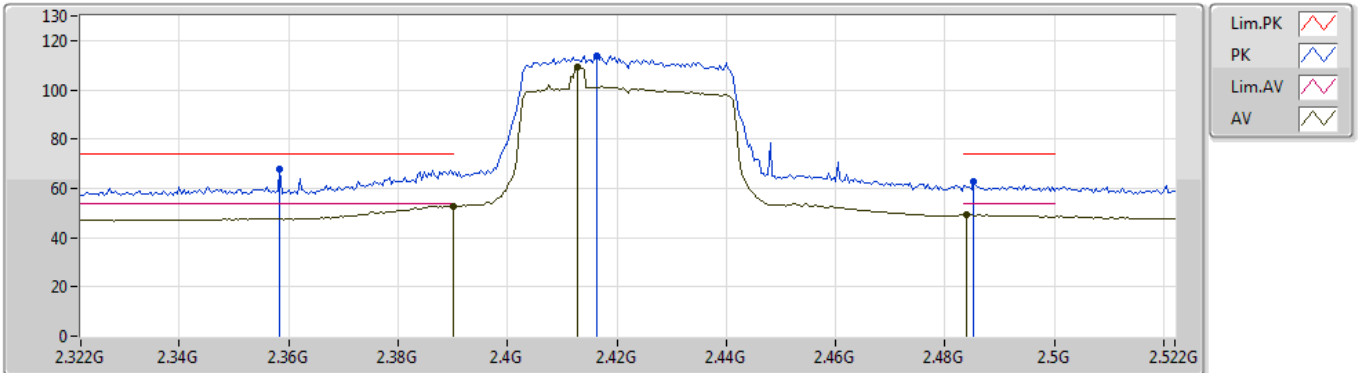
EUT_Z_2TX
Setting 24
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.92364G	52.26	74.00	-21.74	7.39	3	Horizontal	294	2.26	-				
AV	4.92268G	38.14	54.00	-15.86	7.39	3	Horizontal	294	2.26	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2422MHz_TX



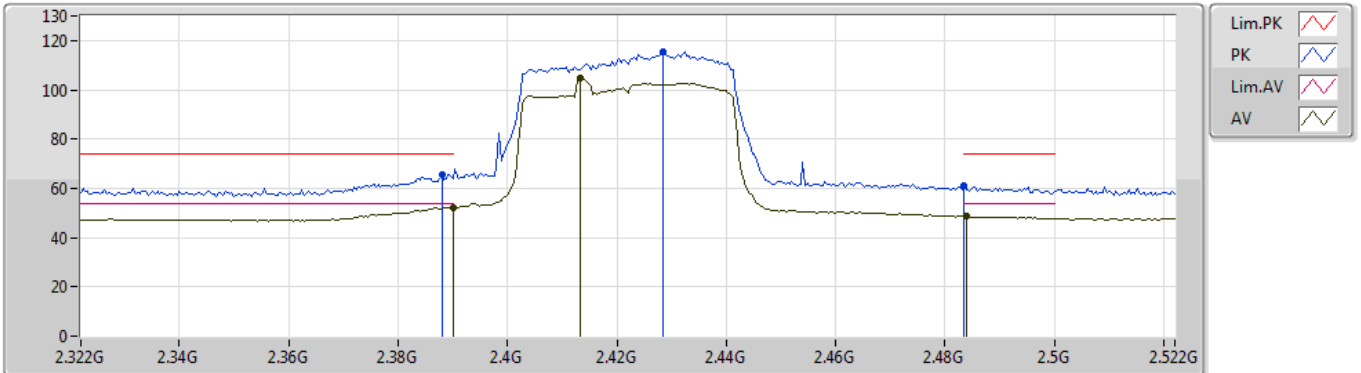
EUT_Z_2TX
Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3584G	67.65	74.00	-6.35	31.13	3	Vertical	336	1.02	-				
AV	2.39G	52.94	54.00	-1.06	31.20	3	Vertical	336	1.02	-				
PK	2.4164G	113.73	Inf	-Inf	31.27	3	Vertical	336	1.02	-				
AV	2.4128G	109.07	Inf	-Inf	31.26	3	Vertical	336	1.02	-				
PK	2.4852G	62.83	74.00	-11.17	31.40	3	Vertical	336	1.02	-				
AV	2.484G	49.32	54.00	-4.68	31.39	3	Vertical	336	1.02	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2422MHz_TX



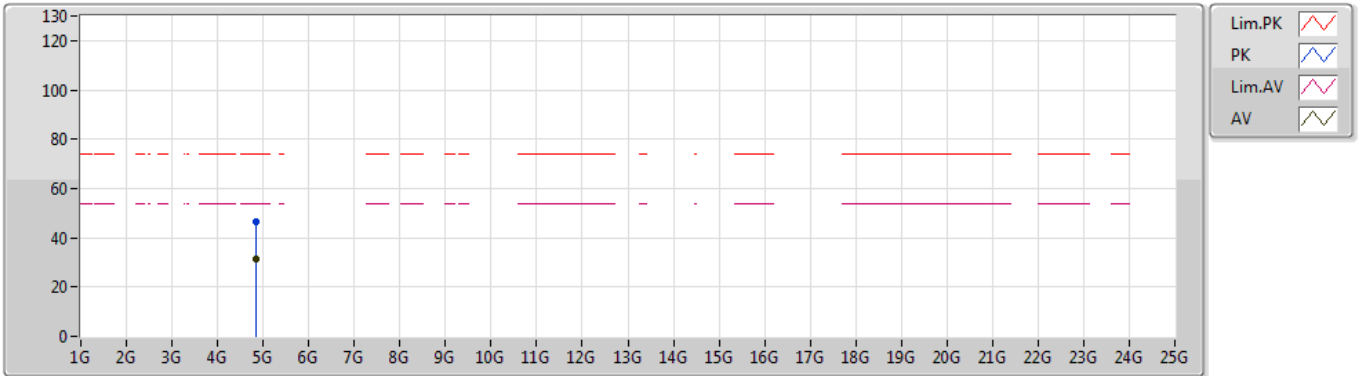
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Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment			
PK	2.388G	65.77	74.00	-8.23	31.20	3	Horizontal	164	2.67	-			
AV	2.39G	52.36	54.00	-1.64	31.20	3	Horizontal	164	2.67	-			
PK	2.4284G	115.44	Inf	-Inf	31.29	3	Horizontal	164	2.67	-			
AV	2.4132G	104.75	Inf	-Inf	31.26	3	Horizontal	164	2.67	-			
PK	2.4835G	60.82	74.00	-13.18	31.39	3	Horizontal	164	2.67	-			
AV	2.484G	48.61	54.00	-5.39	31.39	3	Horizontal	164	2.67	-			

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2422MHz_TX



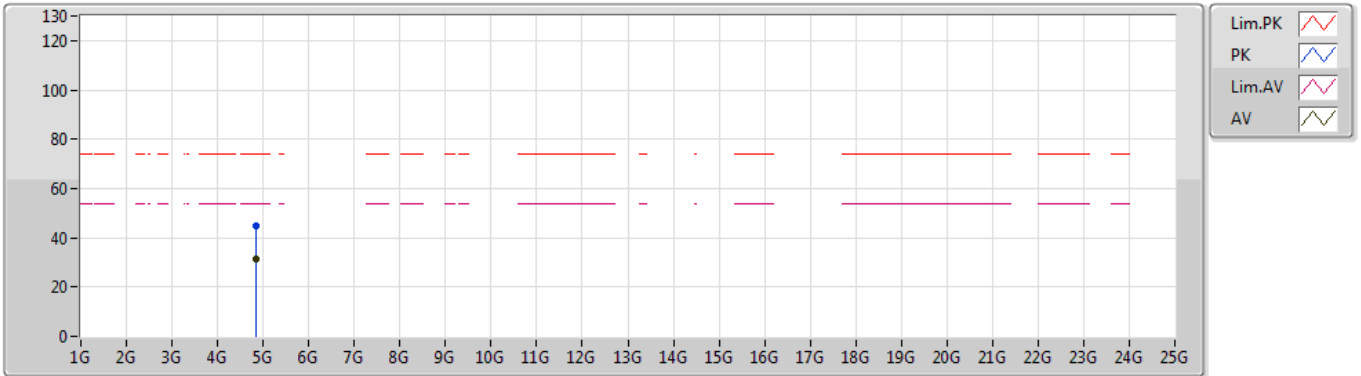
EUT_Z_2TX
Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.84048G	46.27	74.00	-27.73	7.21	3	Vertical	169	1.62	-				
AV	4.84048G	31.53	54.00	-22.47	7.21	3	Vertical	169	1.62	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2422MHz_TX



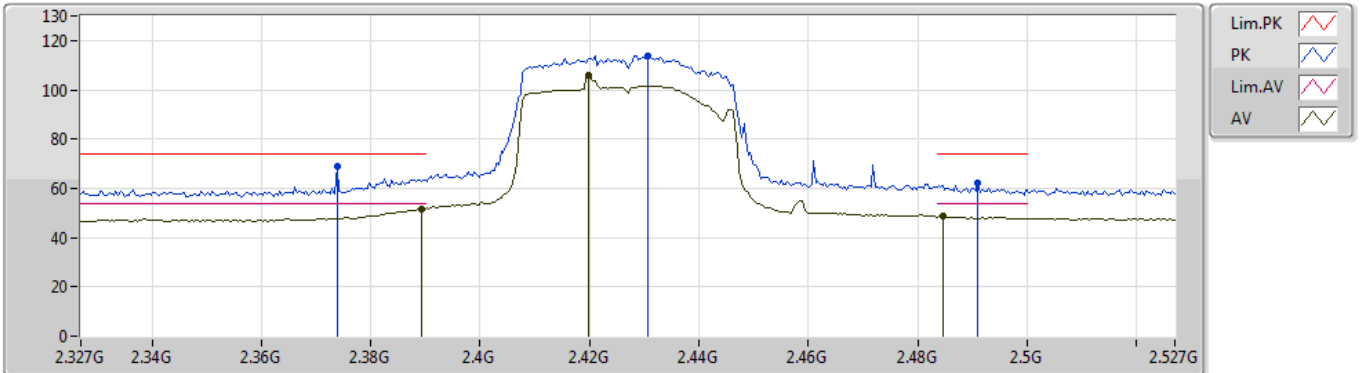
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Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.83986G	44.86	74.00	-29.14	7.21	3	Horizontal	154	1.27	-				
AV	4.84122G	31.61	54.00	-22.39	7.21	3	Horizontal	154	1.27	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2427MHz_TX



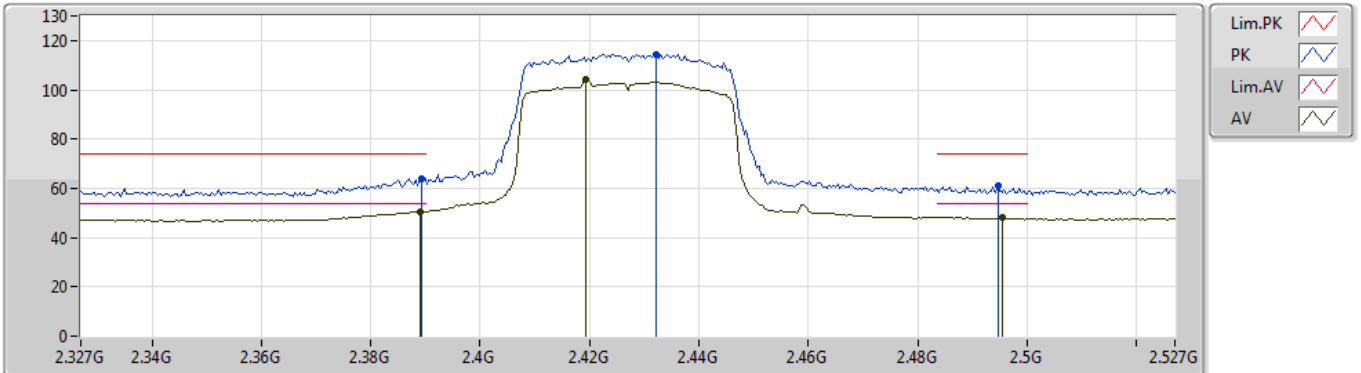
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Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3738G	69.00	74.00	-5.00	31.16	3	Vertical	338	1.47	-				
AV	2.3894G	51.74	54.00	-2.26	31.20	3	Vertical	338	1.47	-				
PK	2.4306G	114.00	Inf	-Inf	31.29	3	Vertical	338	1.47	-				
AV	2.4198G	105.67	Inf	-Inf	31.27	3	Vertical	338	1.47	-				
PK	2.491G	62.29	74.00	-11.71	31.42	3	Vertical	338	1.47	-				
AV	2.4846G	48.55	54.00	-5.45	31.40	3	Vertical	338	1.47	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2427MHz_TX



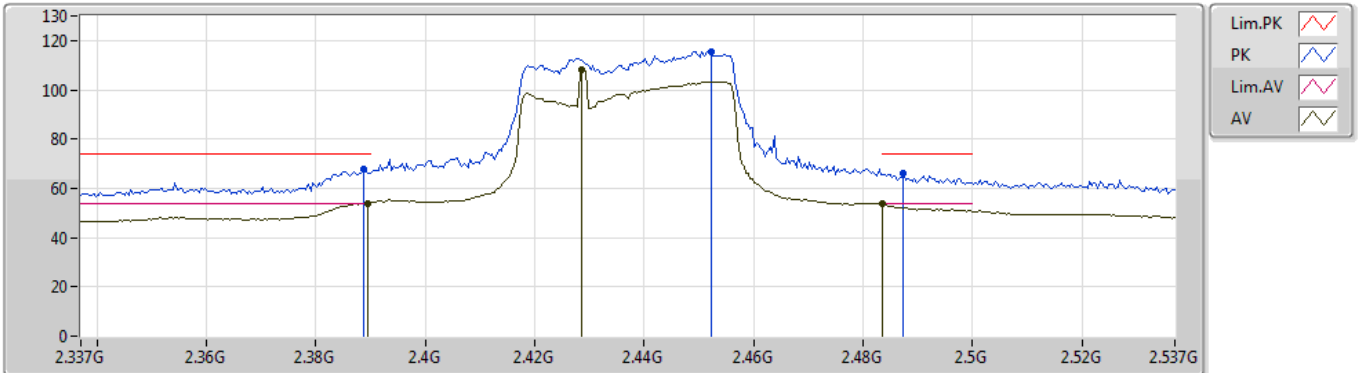
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Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3894G	64.07	74.00	-9.93	31.20	3	Horizontal	164	2.98	-
AV	2.389G	50.61	54.00	-3.39	31.20	3	Horizontal	164	2.98	-
PK	2.4322G	114.55	Inf	-Inf	31.29	3	Horizontal	164	2.98	-
AV	2.4194G	104.00	Inf	-Inf	31.27	3	Horizontal	164	2.98	-
PK	2.4946G	61.07	74.00	-12.93	31.42	3	Horizontal	164	2.98	-
AV	2.4954G	48.31	54.00	-5.69	31.42	3	Horizontal	164	2.98	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



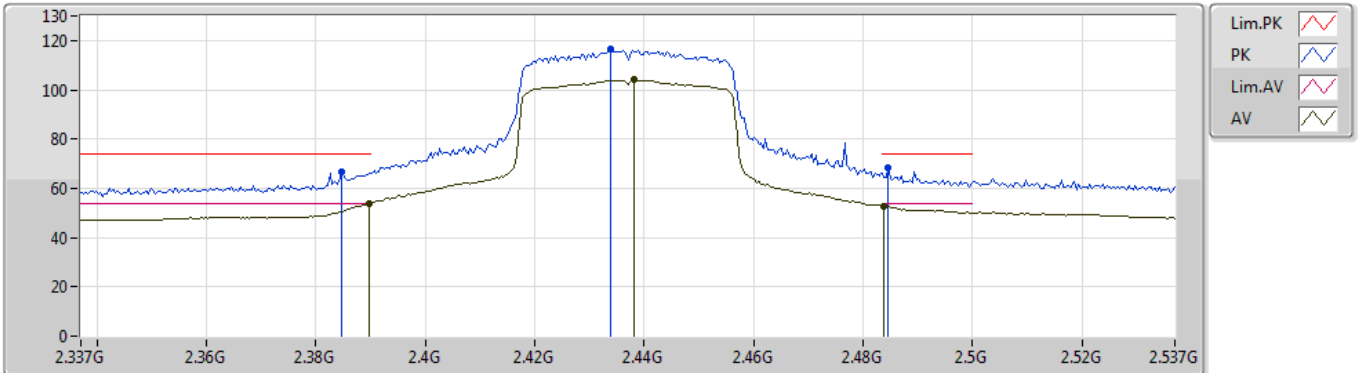
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Setting 25
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3886G	67.81	74.00	-6.19	31.20	3	Vertical	91	1.57	-
AV	2.3894G	53.93	54.00	-0.07	31.20	3	Vertical	91	1.57	-
PK	2.4522G	115.58	Inf	-Inf	31.33	3	Vertical	91	1.57	-
AV	2.4286G	108.17	Inf	-Inf	31.29	3	Vertical	91	1.57	-
PK	2.4874G	66.26	74.00	-7.74	31.40	3	Vertical	91	1.57	-
AV	2.4835G	53.56	54.00	-0.44	31.39	3	Vertical	91	1.57	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



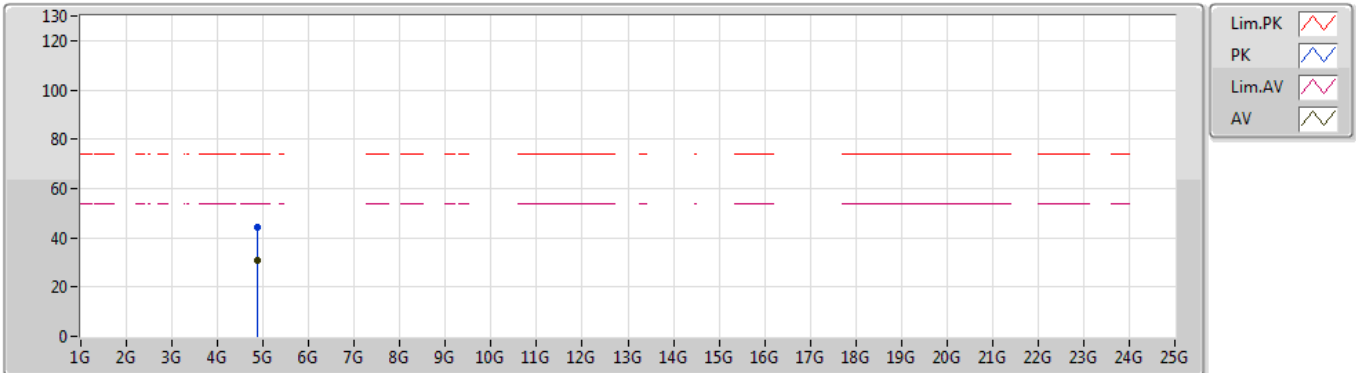
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Setting 25
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3846G	66.59	74.00	-7.41	31.19	3	Horizontal	180	2.68	-
AV	2.3898G	53.97	54.00	-0.03	31.20	3	Horizontal	180	2.68	-
PK	2.4338G	116.59	Inf	-Inf	31.29	3	Horizontal	180	2.68	-
AV	2.4382G	103.96	Inf	-Inf	31.31	3	Horizontal	180	2.68	-
PK	2.4846G	68.39	74.00	-5.61	31.40	3	Horizontal	180	2.68	-
AV	2.4838G	52.94	54.00	-1.06	31.39	3	Horizontal	180	2.68	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



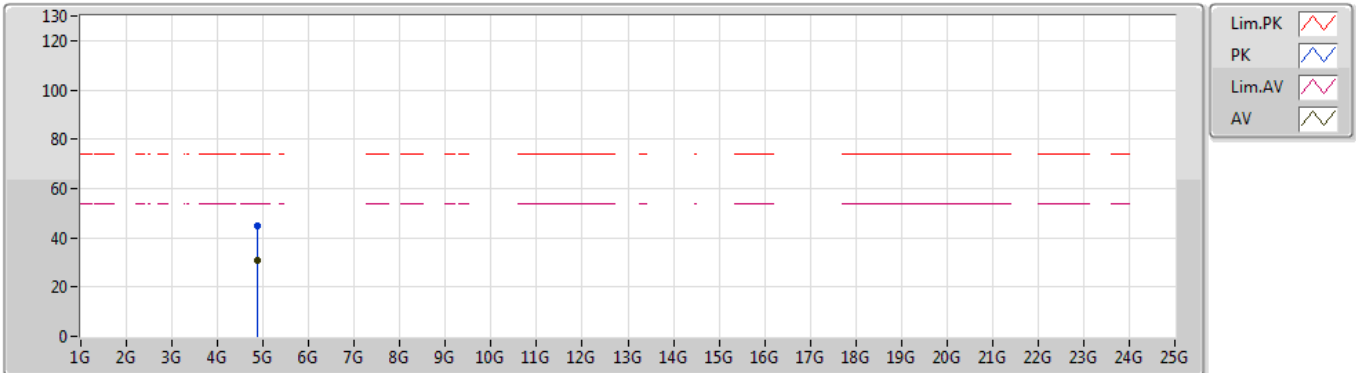
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Setting 25
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87184G	44.37	74.00	-29.63	7.28	3	Vertical	68	1.64	-				
AV	4.86998G	30.84	54.00	-23.16	7.27	3	Vertical	68	1.64	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2437MHz_TX



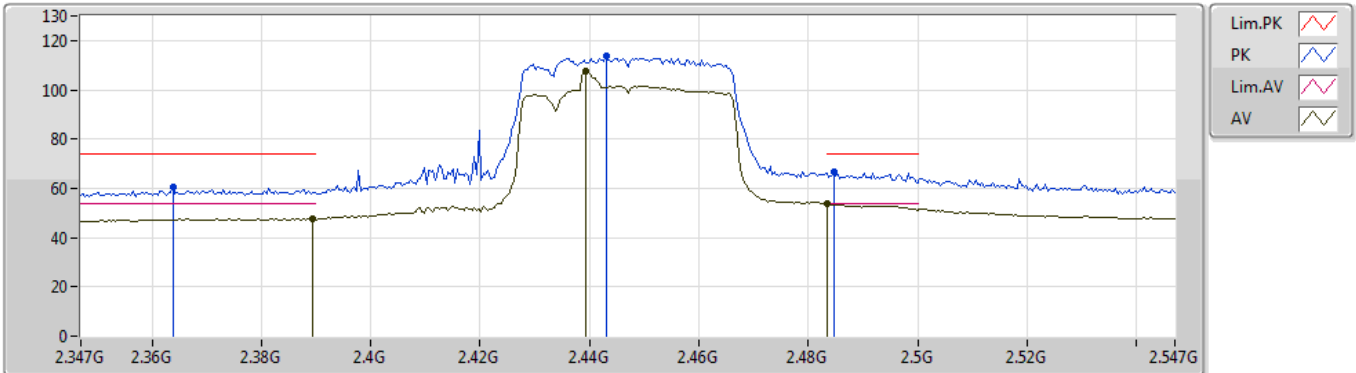
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Setting 25
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.87556G	44.80	74.00	-29.20	7.29	3	Horizontal	252	1.64	-				
AV	4.8695G	30.78	54.00	-23.22	7.27	3	Horizontal	252	1.64	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2447MHz_TX



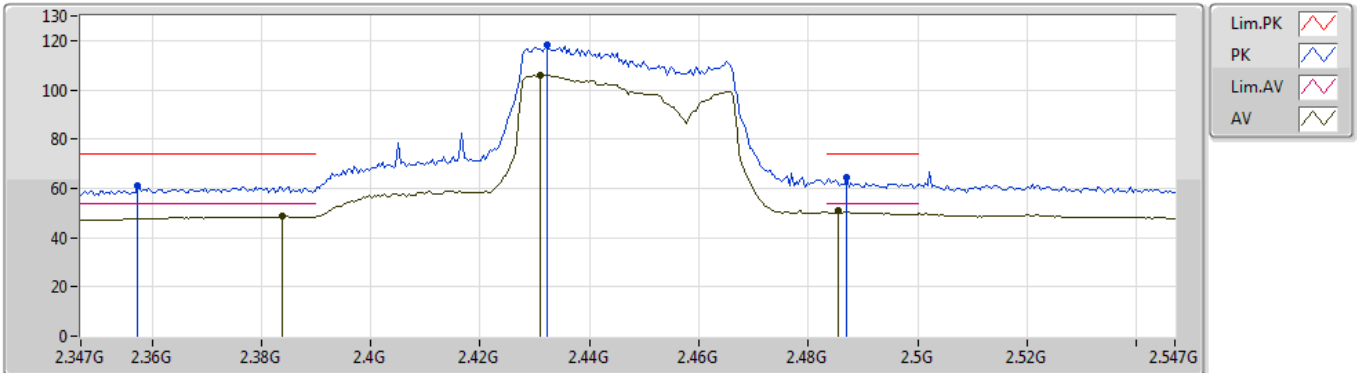
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Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	2.3638G	60.61	74.00	-13.39	31.13	3	Vertical	315	1.62	-				
AV	2.3894G	47.62	54.00	-6.38	31.20	3	Vertical	315	1.62	-				
PK	2.443G	113.95	Inf	-Inf	31.32	3	Vertical	315	1.62	-				
AV	2.4394G	107.58	Inf	-Inf	31.31	3	Vertical	315	1.62	-				
PK	2.4846G	66.68	74.00	-7.32	31.40	3	Vertical	315	1.62	-				
AV	2.4835G	53.91	54.00	-0.09	31.39	3	Vertical	315	1.62	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2447MHz_TX



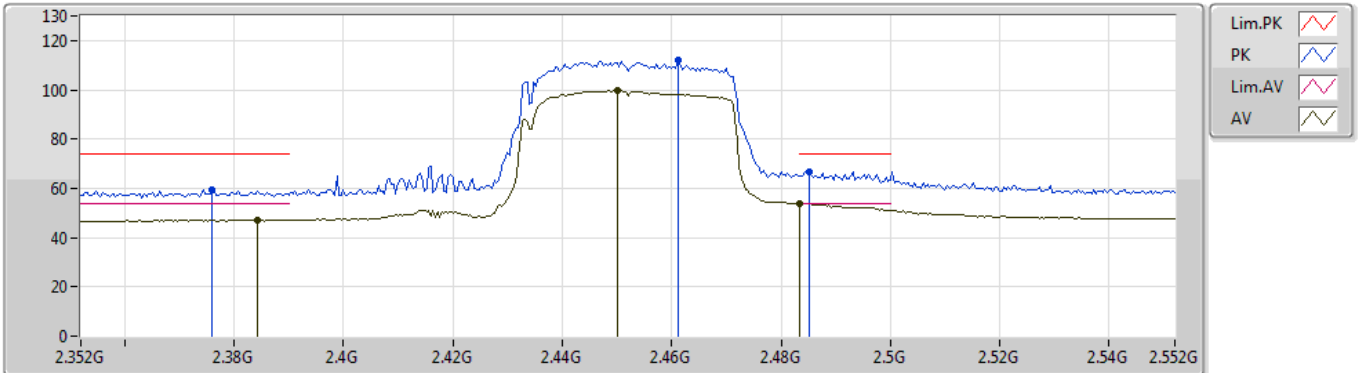
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Setting 22
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3574G	61.06	74.00	-12.94	31.12	3	Horizontal	152	2.98	-
AV	2.3838G	48.56	54.00	-5.44	31.19	3	Horizontal	152	2.98	-
PK	2.4322G	118.42	Inf	-Inf	31.29	3	Horizontal	152	2.98	-
AV	2.431G	106.02	Inf	-Inf	31.29	3	Horizontal	152	2.98	-
PK	2.487G	64.55	74.00	-9.45	31.40	3	Horizontal	152	2.98	-
AV	2.4854G	50.90	54.00	-3.10	31.40	3	Horizontal	152	2.98	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2452MHz_TX



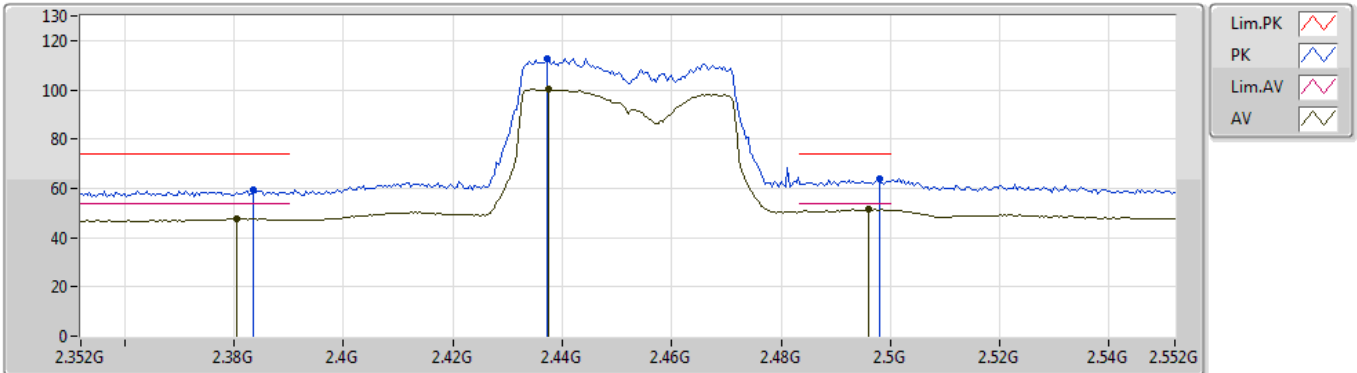
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Setting 20
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.376G	59.36	74.00	-14.64	31.17	3	Vertical	320	1.60	-
AV	2.3844G	47.15	54.00	-6.85	31.19	3	Vertical	320	1.60	-
PK	2.4612G	111.85	Inf	-Inf	31.35	3	Vertical	320	1.60	-
AV	2.45G	99.58	Inf	-Inf	31.33	3	Vertical	320	1.60	-
PK	2.4852G	66.58	74.00	-7.42	31.40	3	Vertical	320	1.60	-
AV	2.4835G	53.93	54.00	-0.07	31.39	3	Vertical	320	1.60	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2452MHz_TX



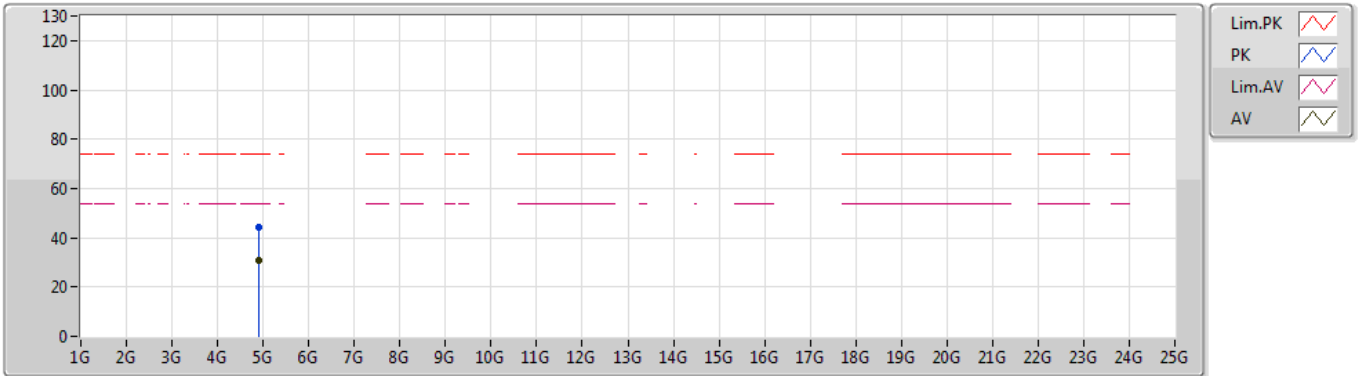
EUT Z_2TX
Setting 20
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	2.3836G	59.40	74.00	-14.60	31.19	3	Horizontal	170	2.98	-
AV	2.3804G	47.53	54.00	-6.47	31.18	3	Horizontal	170	2.98	-
PK	2.4372G	112.81	Inf	-Inf	31.30	3	Horizontal	170	2.98	-
AV	2.4376G	100.28	Inf	-Inf	31.31	3	Horizontal	170	2.98	-
PK	2.498G	63.63	74.00	-10.37	31.43	3	Horizontal	170	2.98	-
AV	2.496G	51.59	54.00	-2.41	31.42	3	Horizontal	170	2.98	-

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2452MHz_TX



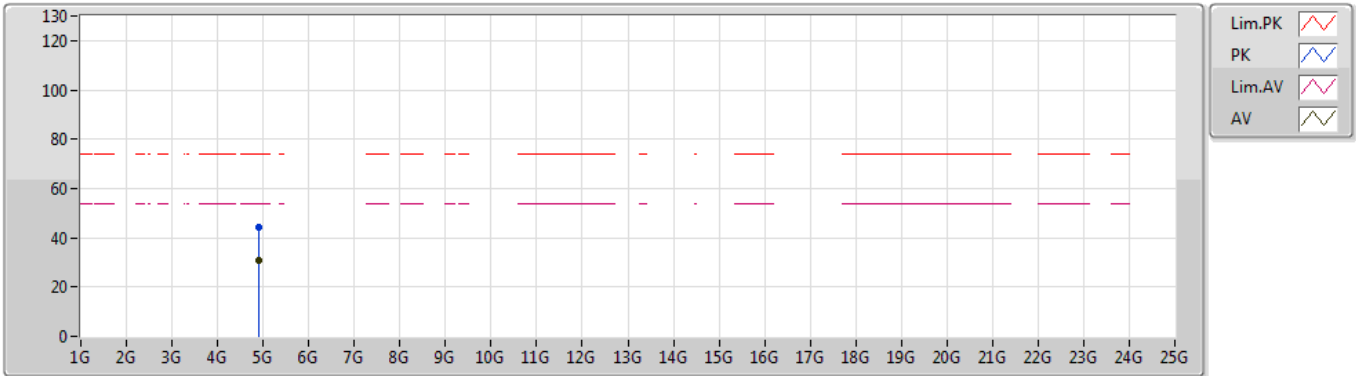
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Setting 20
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9079G	44.24	74.00	-29.76	7.37	3	Vertical	112	1.24	-				
AV	4.90096G	30.96	54.00	-23.04	7.35	3	Vertical	112	1.24	-				

802.11ax HEW40-BF_Nss1,(MCS0)_2TX

22/06/2019

2452MHz_TX



EUT_Z_2TX
Setting 20
02-E-4
FSU(100015)

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	4.9047G	44.24	74.00	-29.76	7.36	3	Horizontal	242	1.62	-				
AV	4.90092G	30.92	54.00	-23.08	7.35	3	Horizontal	242	1.62	-				

