FCC RADIO TEST REPORT

FCC ID	:	NKR-LVSK-X1
Equipment	:	Wi-Fi Extender Mini
Brand Name	:	verizon
Model Name	:	LVX1
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 Jul. 19, 2019, and testing was started from Jul. 27, 2019 and completed on Aug. 06, 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.)

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History of this test report

Report No.	Version	Description	Issued Date
FR953010AA	01	Initial issue of report	Aug. 13, 2019
FR953010AA	02	Modifying the Photographs of EUT to version 2.	Aug. 13, 2019

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: Wendy Pan

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.
- 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	Direction Gain (dBi)		
						2.4GHz	5GHz Band 1	5GHz Band 4
1	1	WNC	LVX1	PCB DIPOLE	I-PEX MHF	4.51	-	5.85
2	2	WNC	LVX1	Metal PIFA	I-PEX MHF	4.51	-	5.85
3	1	WNC	LVX1	PCB DIPOLE	I-PEX MHF	-	5.20	-
4	2	WNC	LVX1	PCB DIPOLE	I-PEX MHF	-	5.20	-

Note: 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 could transmit/receive simultaneously.

For 5GHz Band 1 function(2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.992	0.03	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.96	0.18	2.03m	1k
VHT20	0.903	0.44	4.975m	300
VHT20-BF	0.96	0.18	1.755m	1k
VHT40	0.803	0.95	2.42m	1k
VHT40-BF	0.956	0.2	1.69m	1k

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

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	For 802.11n and VHT in 2.4GHz and 802.11n/ac in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	For non- beamforming: AP.DK04_EVM curve.xtt (V 5.0-00163) For beamforming: Telnet			

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT support function

Function	Support Type	Support Band
Bridge	Master	WLAN 2.4GHz/WLAN 5GHz Band 1+4
Mesh	Master + Slave	WLAN 2.4GHz/WLAN 5GHz Band 1~4

Note: 1.The above information was declared by manufacturer.
2.Only the Mesh mode was tested and recorded in this test report that is designated by the manufacturer.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15
- 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	TH02-CB	Jeff Wu	26.5~27.8°C / 62~65%	Jul. 27, 2019~Aug.03, 2019
Radiated<1GHz	03CH04-CB	Welson Chen	26.2~28.3°C / 56~60%	Aug. 01, 2019
Radiated>1GHz	03CH01-CB	Bruce Yang	26.6~28.2°C / 60~65%	Aug. 06, 2019
AC Conduction	CO02-CB	Peter Wu	24~25°C / 59~60%	Aug. 06, 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	2.4 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	22
2437MHz	23
2462MHz	21.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	16.5
2417MHz	19
2437MHz	23
2457MHz	19
2462MHz	17
VHT20_Nss1,(MCS0)_2TX	-
2412MHz	18
2417MHz	20
2437MHz	23
2457MHz	20
2462MHz	18.5
VHT20-BF_Nss1,(MCS0)_2TX	-
2412MHz	19
2417MHz	21
2437MHz	25
2457MHz	22
2462MHz	20
VHT40_Nss1,(MCS0)_2TX	-
2422MHz	17.5
2437MHz	19
2452MHz	18
VHT40-BF_Nss1,(MCS0)_2TX	-
2422MHz	19
2427MHz	20
2437MHz	22
2452MHz	20

Note:
- There are two modes of EUT for 802.11n and VHT in 2.4GHz. One is beamforming mode, and the other is non-beamforming mode, Both modes have been tested and recorded in this test report.
- VHT 20MHz / 40MHz modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in 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
1	EUT in Y axis
Operating Mode > 1GHz	CTX
There are two modes of EUT, one is Y axis Power port is right side up , the other is Y axis Power port is right side down, and the worst case was found at Y axis Power port is right side up. So the measurement will follow this same test configuration.	
1	EUT in Y axis Power port is right side up

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
Refer to Sporton Test Report No.: FA953010 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used Y 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 RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Device	Verizon	LVR1	N/A
B	Notebook	DELL	E6430	N/A
C	Device	Calix	100-05147 01	N/A
D	Notebook	DELL	E6430	N/A
E	Device	Calix	100-05147 01	N/A
F	Notebook	DELL	E6430	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	WLAN AP	Verizon	LVR1	N/A
B	WLAN AP	Calix	100-05147 01	N/A
C	WLAN AP	Calix	100-05147 01	N/A
D	Notebook	DELL	E4300	N/A
E	Notebook	DELL	E4300	N/A
F	Notebook	DELL	E4300	N/A

For Radiated (above 1GHz) and RF Conducted:
<For Non-Beamforming Mode>

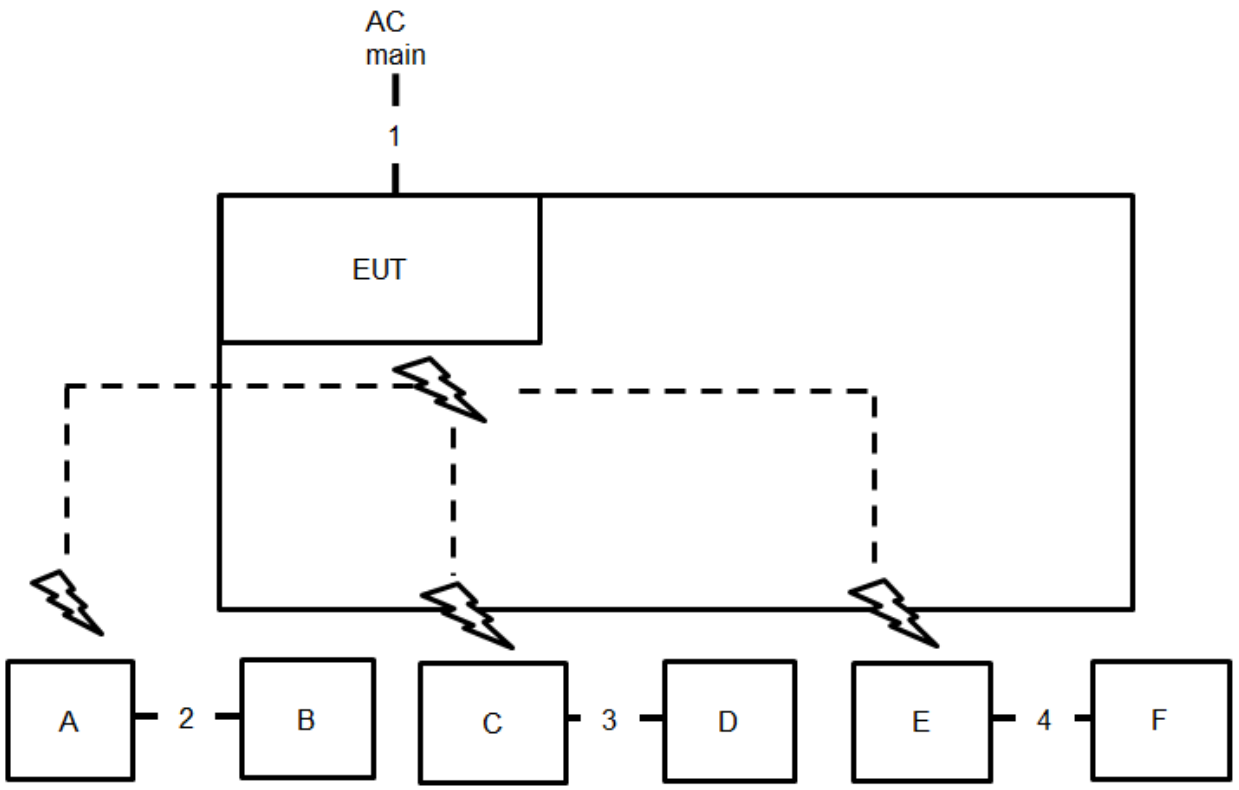
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A

<For Beamforming Mode>

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Notebook	DELL	E4300	N/A
B	Notebook	DELL	E4300	N/A
C	RX Device	verizon	Wi-Fi Extender LVM1	N/A

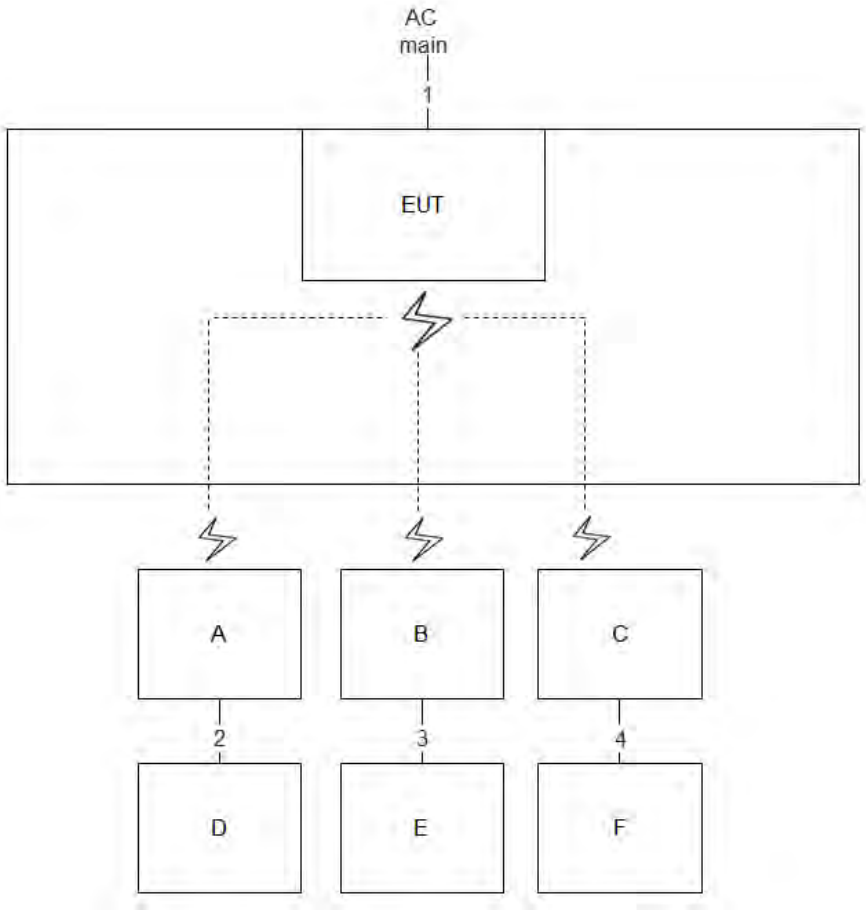
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



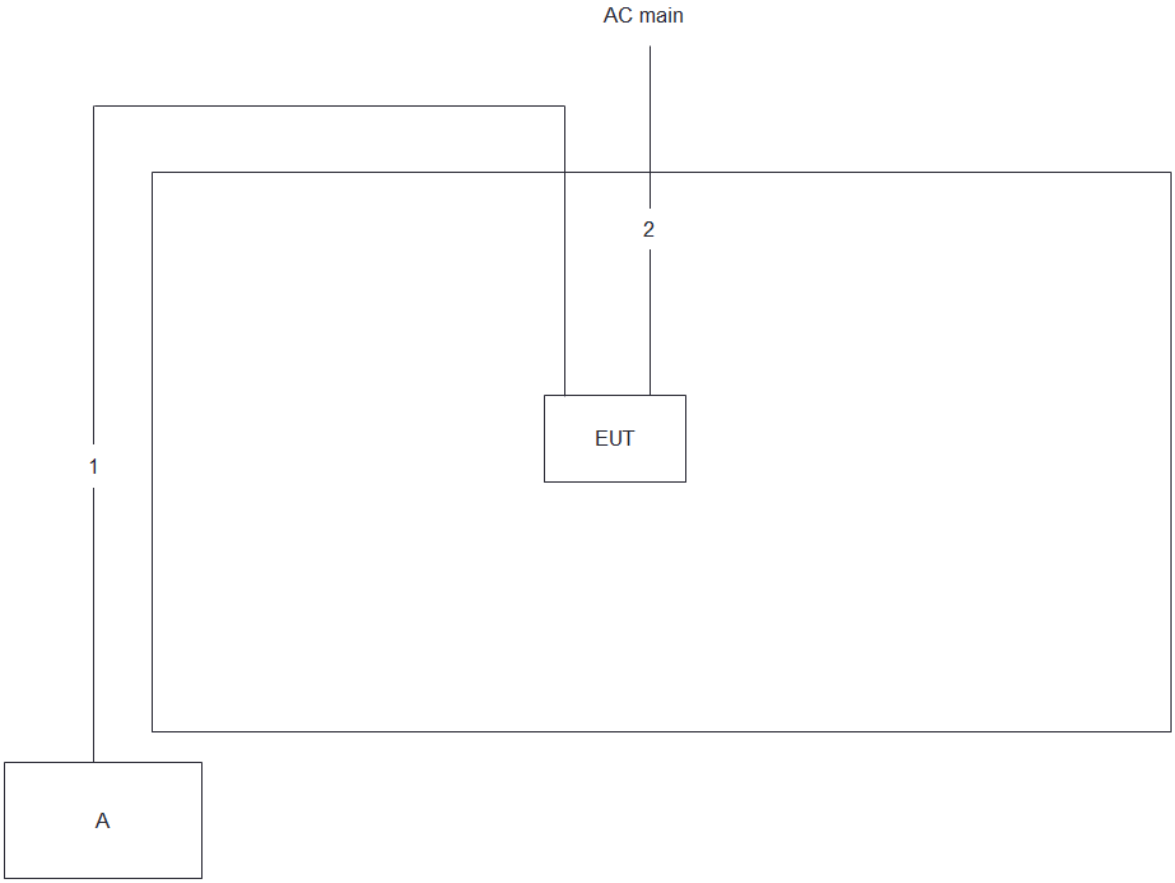
Item	Connection	Shielded	Length
1	Power cable	No	0.8m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	1.5m
4	RJ-45 cable	No	1.5m

Test Setup Diagram - Radiated Test < 1GHz



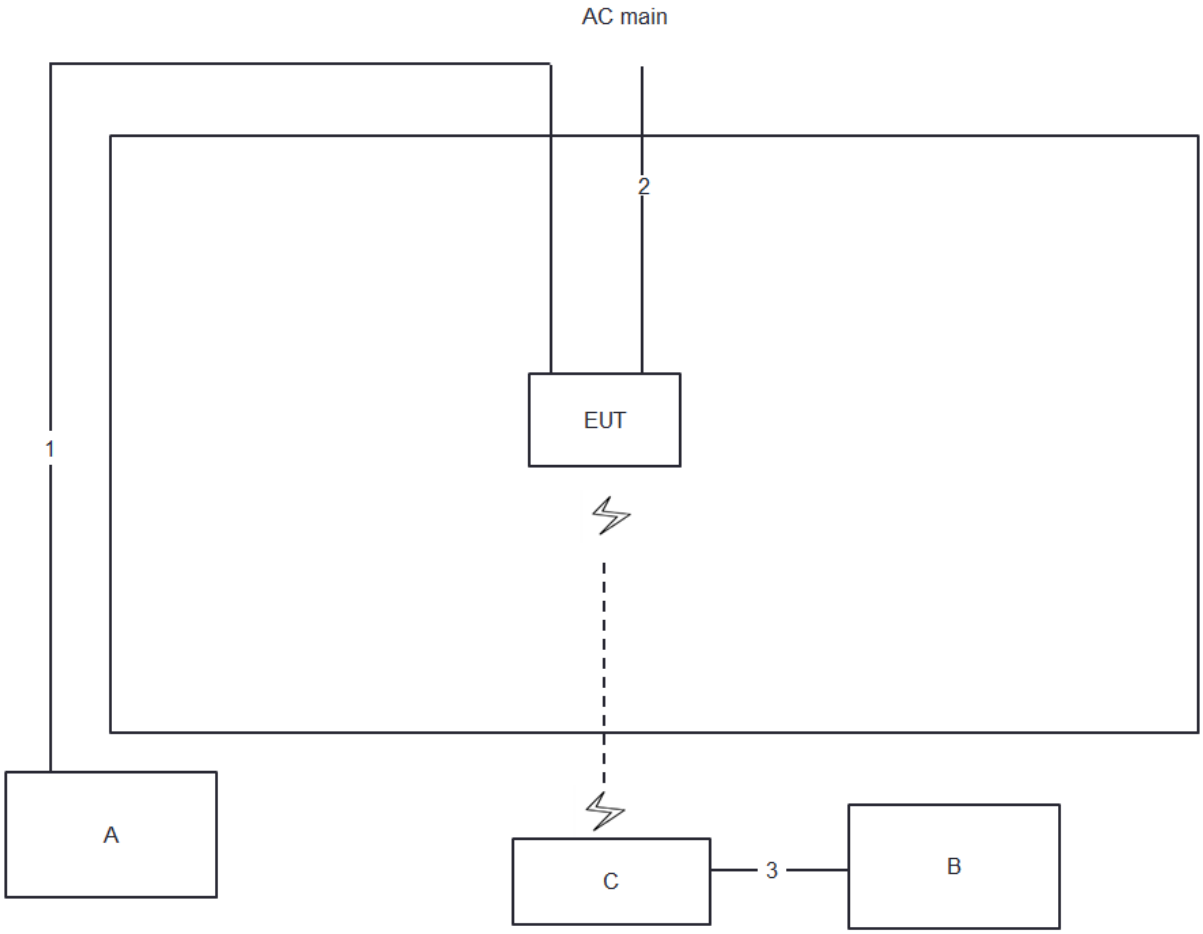
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz / Non-Beamforming Mode



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

Test Setup Diagram - Radiated Test > 1GHz / 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

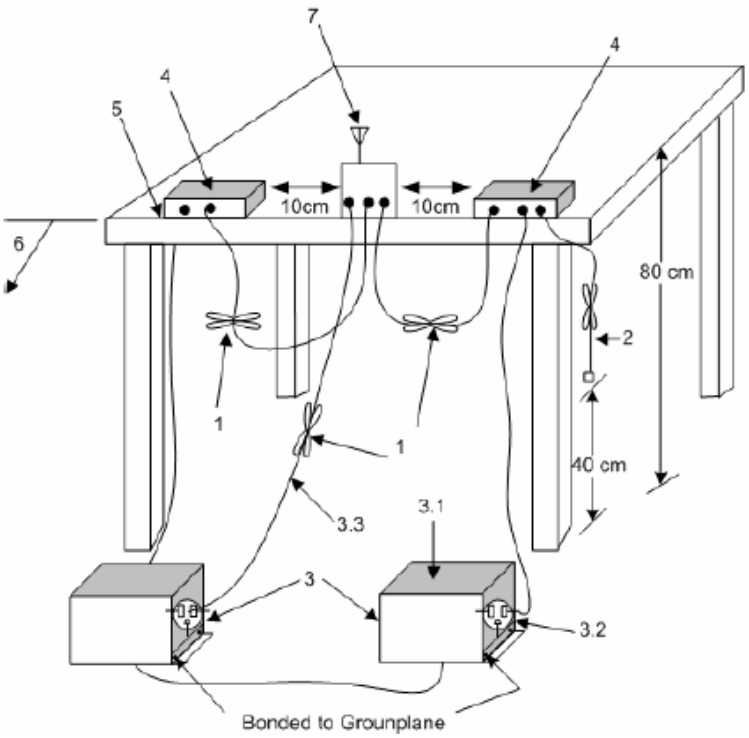
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

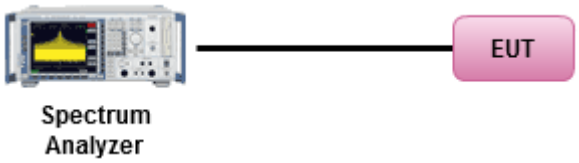
3.2.2 Measuring Instruments

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

Emission Bandwidth


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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


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

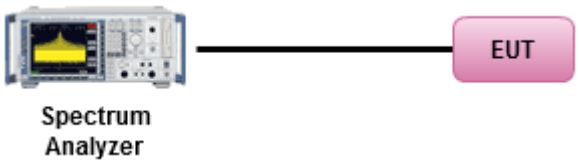
Refer a test equipment and calibration data table in this test report.

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 ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.3 Method AVGPSD-1.
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.5 Method AVGPSD-2.
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.7 Method AVGPSD-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 AVGPSD-1A. (alternative).
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.6 Method AVGPSD-2A. (alternative)
	☐ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10.8 Method AVGPSD-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

Power Spectral Density


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.	

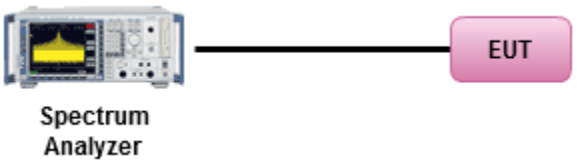
3.5.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


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.

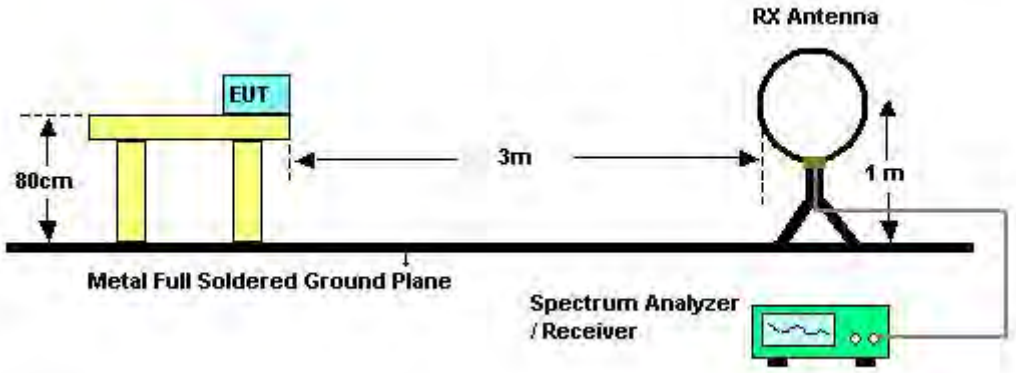
3.6.3 Test Procedures

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 ≥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≥1/T).
		☐	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 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.		

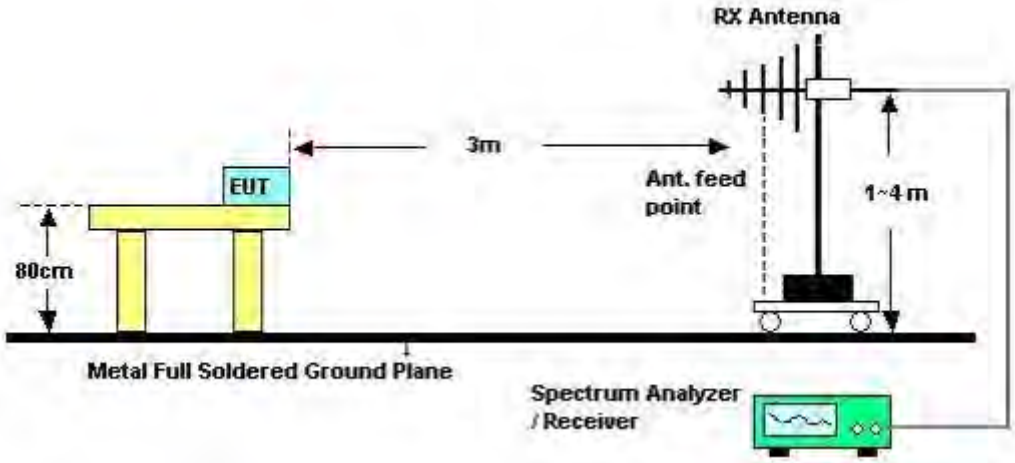
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

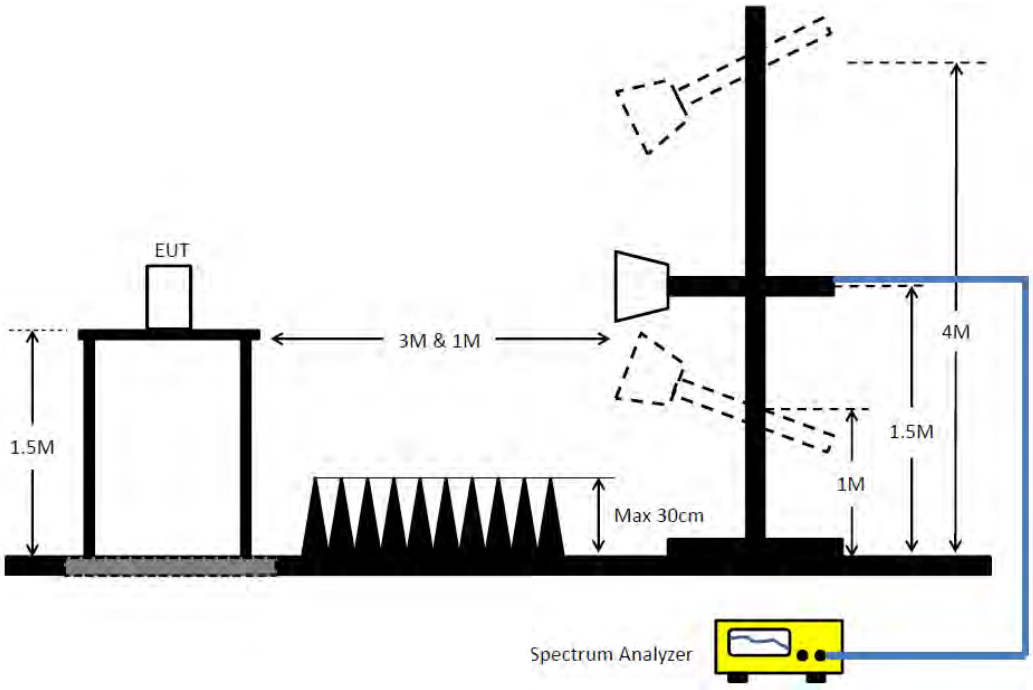
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 21, 2018	Nov. 20, 2019	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 05, 2018	Nov. 04, 2019	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2019	Jan. 15, 2020	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Nov. 06, 2018	Nov. 05, 2019	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
BILOG ANTENNA with 6 dB attenuator	Schaffner & Woken	CBL6112B & N-6-06	22021&AT-N0607	30MHz ~ 1GHz	Oct. 12, 2018	Oct. 11, 2019	Radiation (03CH04-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	310N	187291	0.1MHz ~ 1GHz	Mar. 19, 2019	Mar. 18, 2020	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Dec. 26, 2018	Dec. 25, 2019	Radiation (03CH04-CB
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH04-CB)
RF Cable-low	Woken	RG402	Low Cable-03+22	30MHz – 1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH04-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. 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. 03, 2019	Jul. 02, 2020	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. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH02-CB)

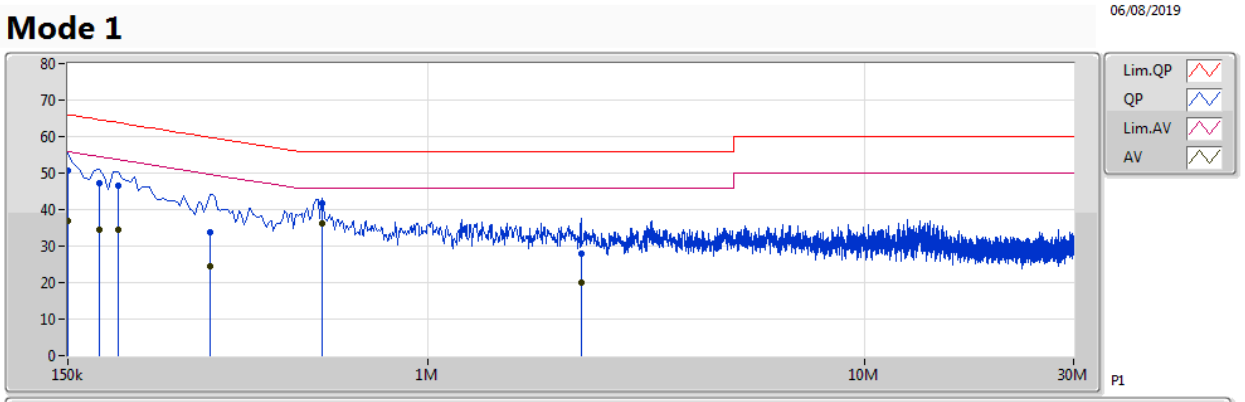
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-3	1 GHz – 26.5 GHz	Oct. 24, 2018	Oct. 23, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Sep. 03, 2018	Sep. 02, 2019	Conducted (TH02-CB)

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

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

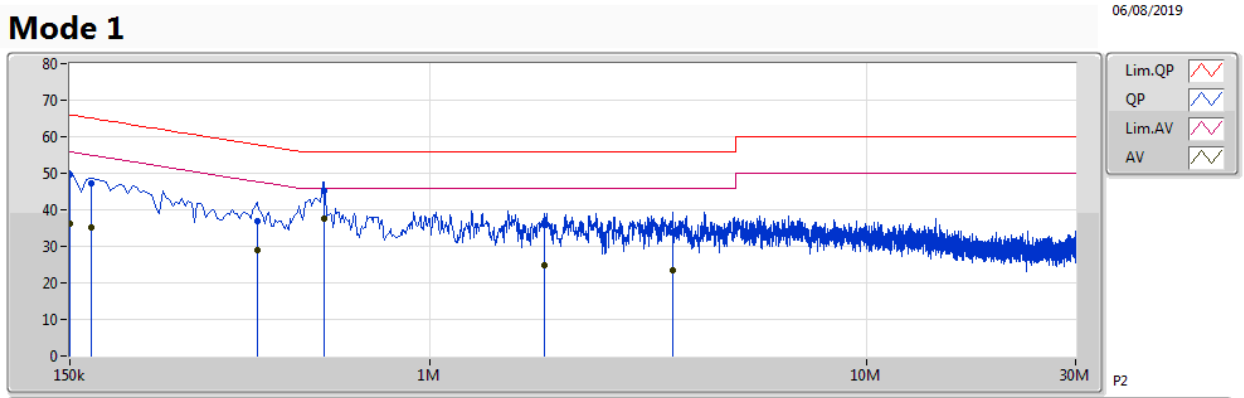
Test Mode	Mode 1	Frequency Range	0.15 MHz to 30 MHz

Line



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	50.68	66.00	-15.32	10.17	Line	-	40.51	0.05	0.02	10.10
AV	150k	37.04	56.00	-18.96	10.17	Line	-	26.87	0.05	0.02	10.10
QP	177k	47.39	64.62	-17.23	10.17	Line	-	37.22	0.05	0.02	10.10
AV	177k	34.32	54.62	-20.30	10.17	Line	-	24.15	0.05	0.02	10.10
QP	195k	46.54	63.82	-17.28	10.17	Line	-	36.37	0.05	0.02	10.10
AV	195k	34.39	53.82	-19.43	10.17	Line	-	24.22	0.05	0.02	10.10
QP	316.5k	33.82	59.80	-25.98	10.18	Line	-	23.64	0.06	0.02	10.10
AV	316.5k	24.54	49.80	-25.26	10.18	Line	-	14.36	0.06	0.02	10.10
QP	573k	41.64	56.00	-14.36	10.18	Line	-	31.46	0.06	0.02	10.10
AV	573k	36.05	46.00	-9.95	10.18	Line	"Worst"	25.87	0.06	0.02	10.10
QP	2.238M	27.97	56.00	-28.03	10.24	Line	-	17.73	0.09	0.05	10.10
AV	2.238M	19.90	46.00	-26.10	10.24	Line	-	9.66	0.09	0.05	10.10

Neutral



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	AF	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	150k	49.61	66.00	-16.39	10.15	Neutral	-	39.46	0.03	0.02	10.10
AV	150k	36.15	56.00	-19.85	10.15	Neutral	-	26.00	0.03	0.02	10.10
QP	168k	47.35	65.06	-17.71	10.15	Neutral	-	37.20	0.03	0.02	10.10
AV	168k	35.24	55.06	-19.82	10.15	Neutral	-	25.09	0.03	0.02	10.10
QP	402k	36.79	57.82	-21.03	10.16	Neutral	-	26.63	0.04	0.02	10.10
AV	402k	28.96	47.82	-18.86	10.16	Neutral	-	18.80	0.04	0.02	10.10
QP	573k	45.10	56.00	-10.90	10.16	Neutral	-	34.94	0.04	0.02	10.10
AV	573k	37.50	46.00	-8.50	10.16	Neutral	"Worst"	27.34	0.04	0.02	10.10
QP	1.833M	35.72	56.00	-20.28	10.21	Neutral	-	25.51	0.06	0.05	10.10
AV	1.833M	24.85	46.00	-21.15	10.21	Neutral	-	14.64	0.06	0.05	10.10
QP	3.593M	33.90	56.00	-22.10	10.25	Neutral	-	23.65	0.08	0.07	10.10
AV	3.593M	23.51	46.00	-22.49	10.25	Neutral	-	13.26	0.08	0.07	10.10

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	8.575M	14.018M	14M0G1D	7.975M	12.944M
802.11g_Nss1,(6Mbps)_2TX	16.35M	21.514M	21M5D1D	16.1M	16.367M
VHT20_Nss1,(MCS0)_2TX	17.6M	21.464M	21M5D1D	17.55M	17.591M
VHT40_Nss1,(MCS0)_2TX	35.6M	36.032M	36M0D1D	32.6M	35.932M

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	7.975M	13.268M	8.025M	13.143M
2437MHz	Pass	500k	8.575M	14.018M	8.5M	13.568M
2462MHz	Pass	500k	8.05M	13.093M	8M	12.944M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.392M	16.325M	16.367M
2437MHz	Pass	500k	16.1M	21.514M	16.35M	19.14M
2462MHz	Pass	500k	16.325M	16.417M	16.35M	16.392M
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.575M	17.616M	17.575M	17.591M
2437MHz	Pass	500k	17.6M	21.464M	17.575M	19.24M
2462MHz	Pass	500k	17.55M	17.616M	17.6M	17.616M
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	33.85M	35.982M	35.05M	35.982M
2437MHz	Pass	500k	34.9M	35.932M	32.6M	36.032M
2452MHz	Pass	500k	33M	36.032M	35.6M	36.032M

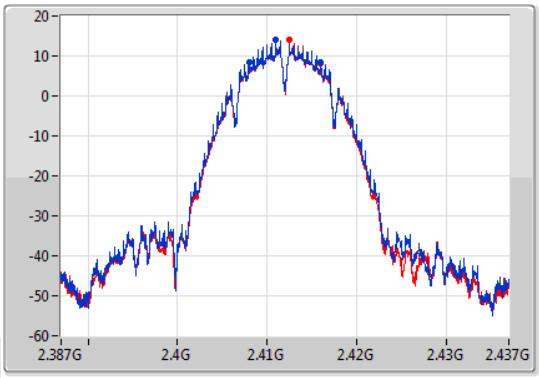
Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX EBW

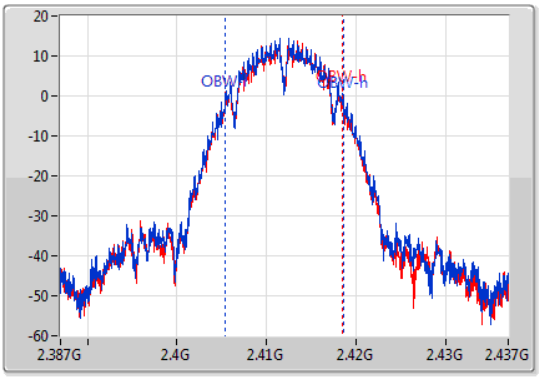
2412MHz

27/07/2019

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



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



Port 1
Port 2

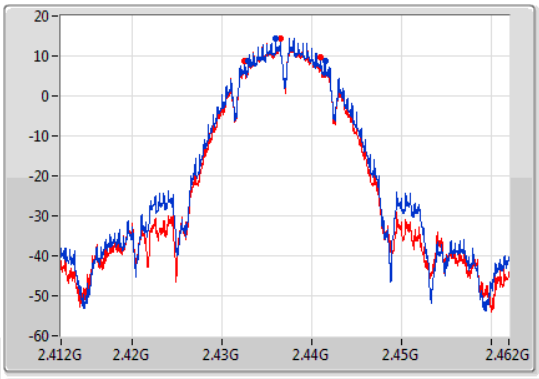
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.975M	2.408G	2.415975G	13.268M	2.405353G	2.418622G	500k	1
8.025M	2.407975G	2.416G	13.143M	2.405378G	2.418522G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

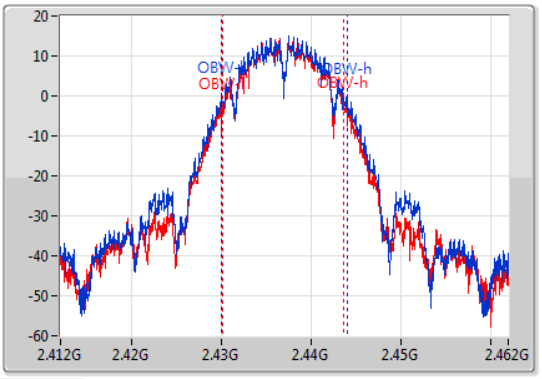
2437MHz

27/07/2019

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



CF	2.437GHz
Span	50MHz
RBW	200kHz
VBW	1MHz
Sweep Time	100ms
Detector Type	Sample



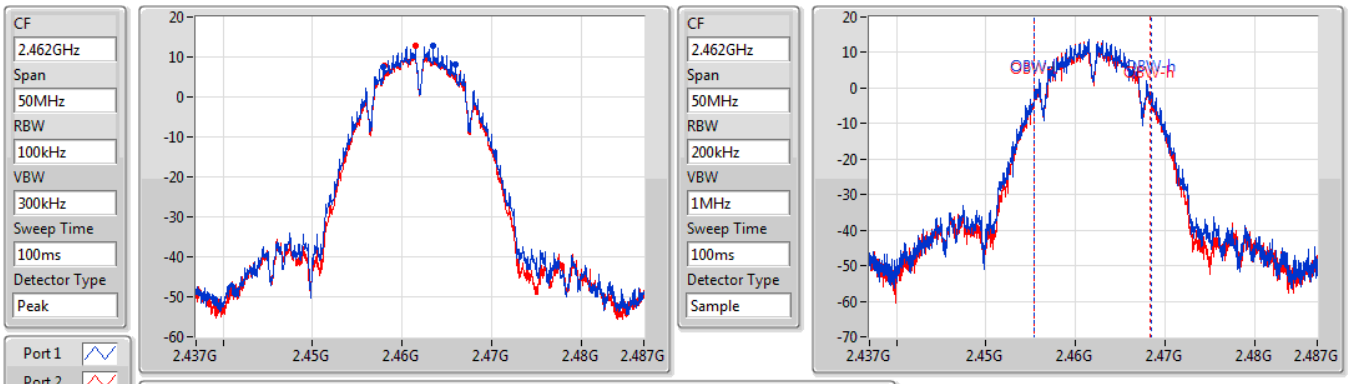
Port 1
Port 2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.575M	2.43295G	2.441525G	14.018M	2.429954G	2.443972G	500k	1
8.5M	2.4325G	2.441G	13.568M	2.430103G	2.443672G	500k	2

802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

27/07/2019

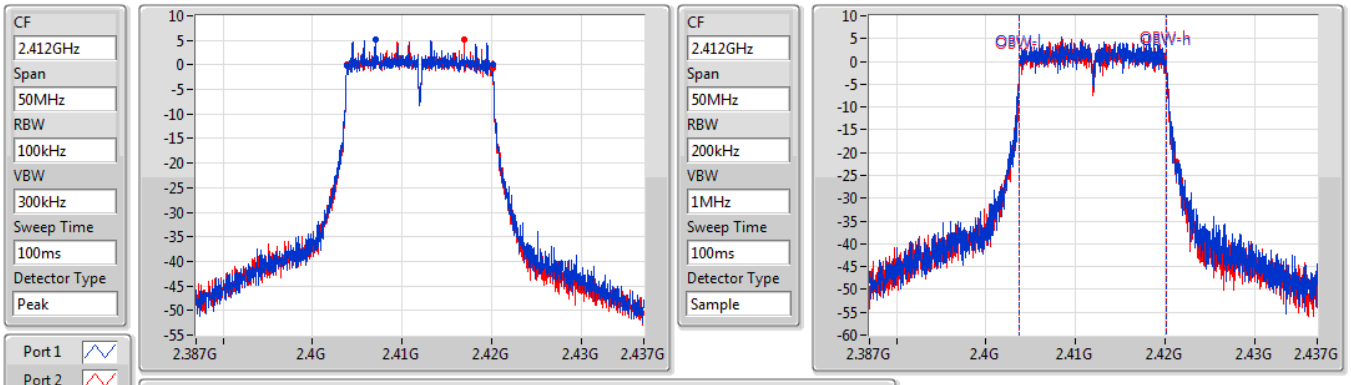


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.05M	2.45795G	2.466G	13.093M	2.455403G	2.468497G	500k	1
8M	2.458G	2.466G	12.944M	2.455453G	2.468397G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

27/07/2019



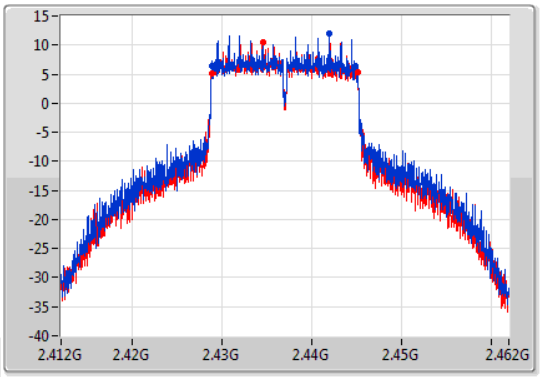
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.392M	2.403779G	2.420171G	500k	1
16.325M	2.403825G	2.42015G	16.367M	2.403779G	2.420146G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

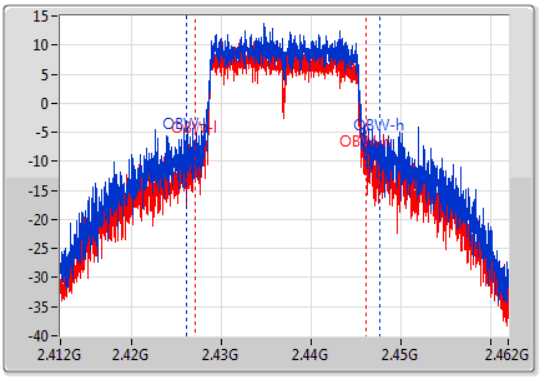
2437MHz

27/07/2019

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



CF	2.437GHz
Span	50MHz
RBW	300kHz
VBW	1MHz
Sweep Time	100ms
Detector Type	Sample



Port 1
Port 2

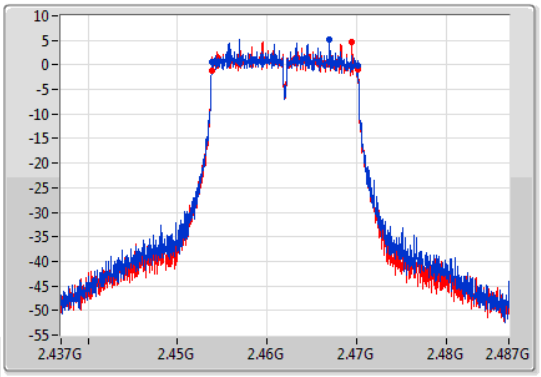
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.1M	2.428825G	2.444925G	21.514M	2.426105G	2.44762G	500k	1
16.35M	2.4288G	2.44515G	19.14M	2.42703G	2.44617G	500k	2

802.11g_Nss1,(6Mbps)_2TX EBW

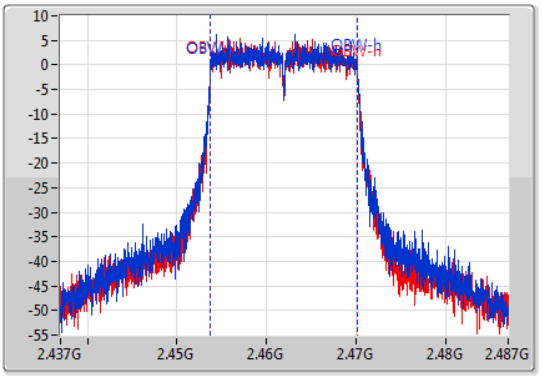
2462MHz

27/07/2019

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



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



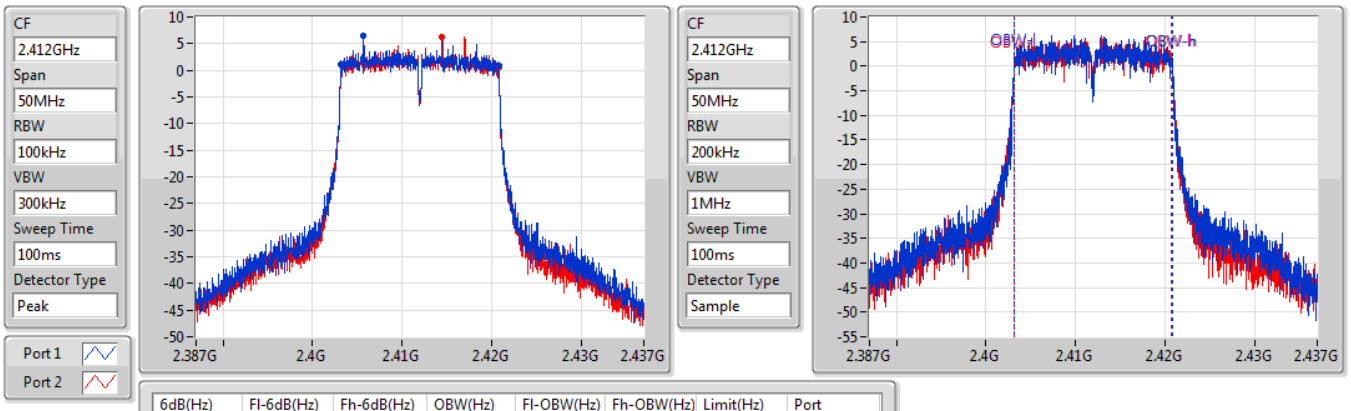
Port 1
Port 2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.453825G	2.47015G	16.417M	2.453754G	2.470171G	500k	1
16.35M	2.4538G	2.47015G	16.392M	2.453779G	2.470171G	500k	2

VHT20_Nss1,(MCS0)_2TX EBW

2412MHz

27/07/2019

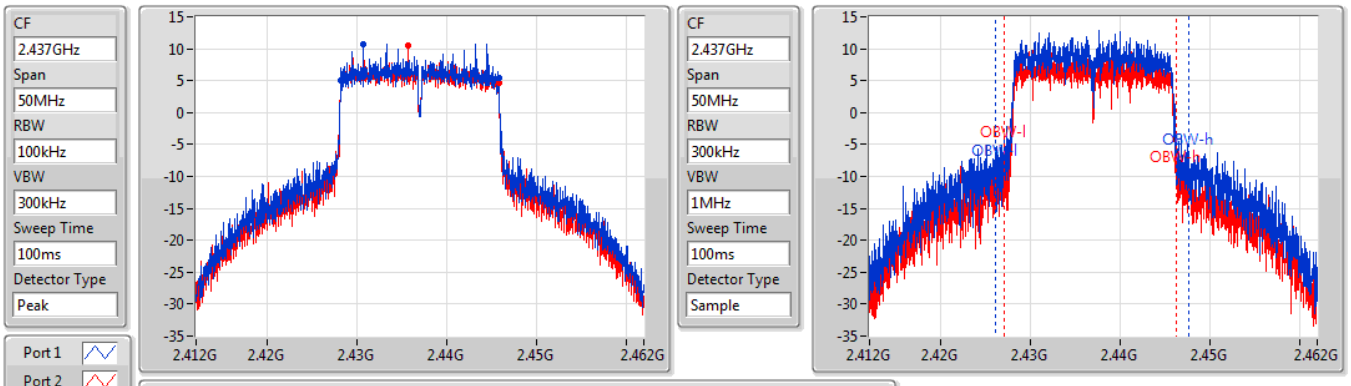


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.575M	2.4032G	2.420775G	17.616M	2.403179G	2.420796G	500k	1
17.575M	2.4032G	2.420775G	17.591M	2.403179G	2.420771G	500k	2

VHT20_Nss1,(MCS0)_2TX EBW

2437MHz

27/07/2019

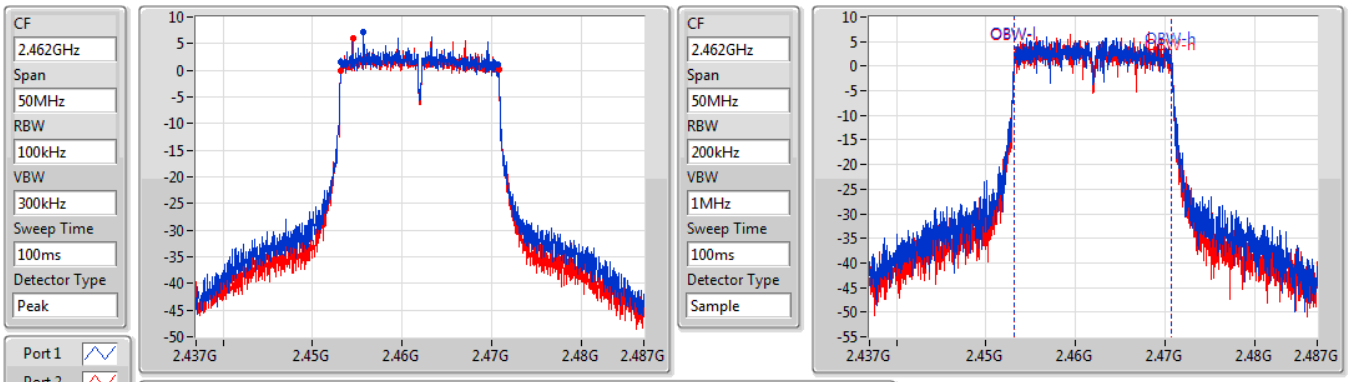


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	2.428175G	2.445775G	21.464M	2.42613G	2.447595G	500k	1
17.575M	2.4282G	2.445775G	19.24M	2.42703G	2.44627G	500k	2

VHT20_Nss1,(MCS0)_2TX EBW

2462MHz

27/07/2019

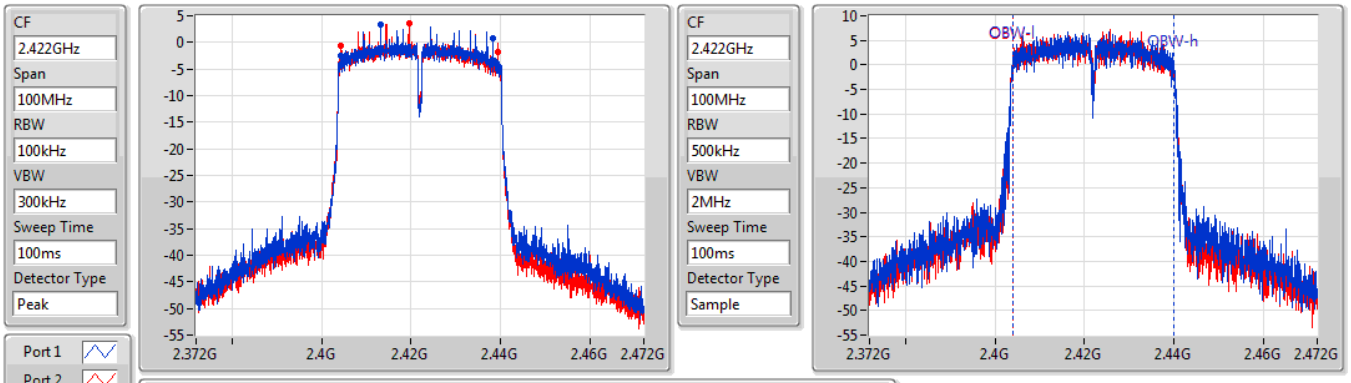


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.55M	2.4532G	2.47075G	17.616M	2.453154G	2.470771G	500k	1
17.6M	2.453175G	2.470775G	17.616M	2.453154G	2.470771G	500k	2

VHT40_Nss1,(MCS0)_2TX EBW

2422MHz

27/07/2019

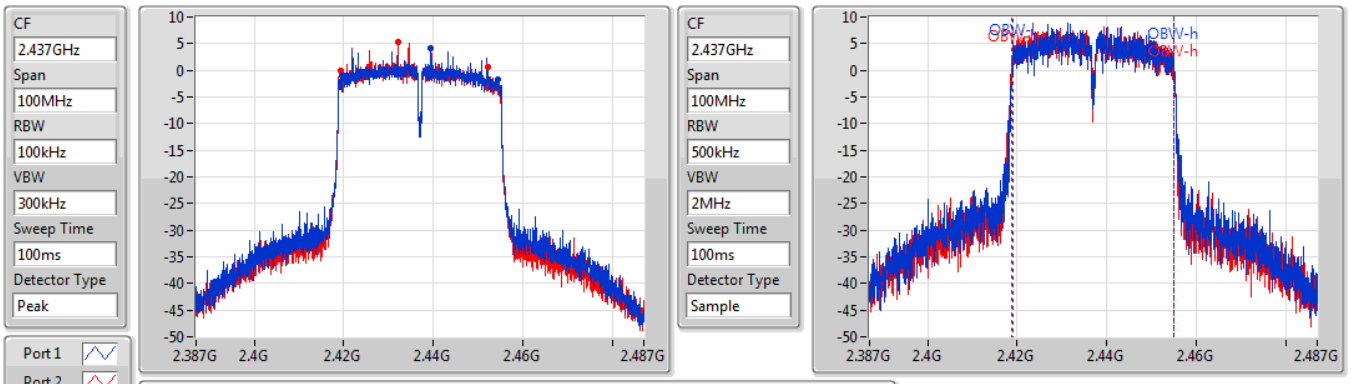


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.85M	2.4044G	2.43825G	35.982M	2.403959G	2.439941G	500k	1
35.05M	2.40445G	2.4395G	35.982M	2.403909G	2.439891G	500k	2

VHT40_Nss1,(MCS0)_2TX EBW

2437MHz

27/07/2019

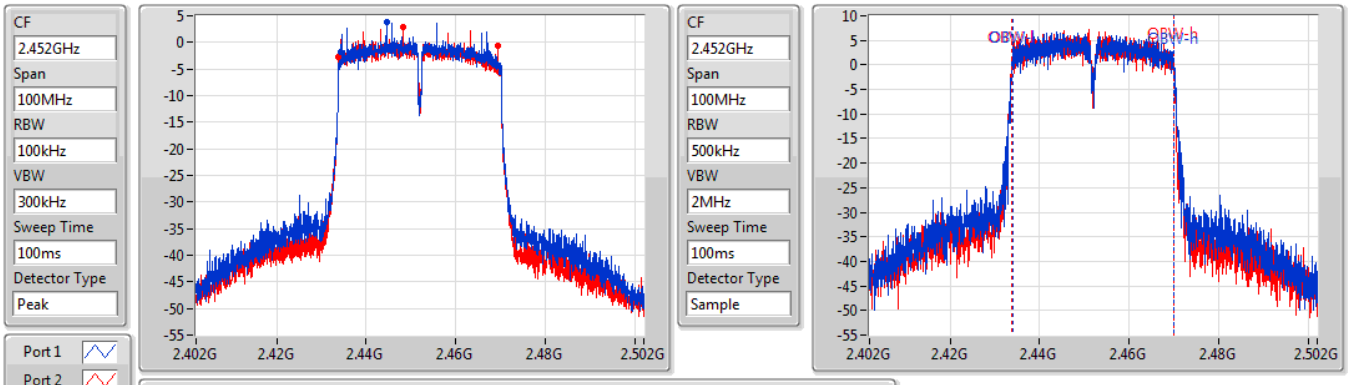


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.9M	2.4195G	2.4544G	35.932M	2.418959G	2.454891G	500k	1
32.6M	2.41945G	2.45205G	36.032M	2.418859G	2.454891G	500k	2

VHT40_Nss1,(MCS0)_2TX EBW

2452MHz

27/07/2019



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33M	2.43425G	2.46725G	36.032M	2.433909G	2.469941G	500k	1
35.6M	2.43385G	2.46945G	36.032M	2.433809G	2.469841G	500k	2

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
VHT20-BF_Nss1,(MCS0)_2TX	17.55M	17.67M	17M7D1D	15.275M	17.572M
VHT40-BF_Nss1,(MCS0)_2TX	35.25M	35.941M	35M9D1D	31.35M	35.855M

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

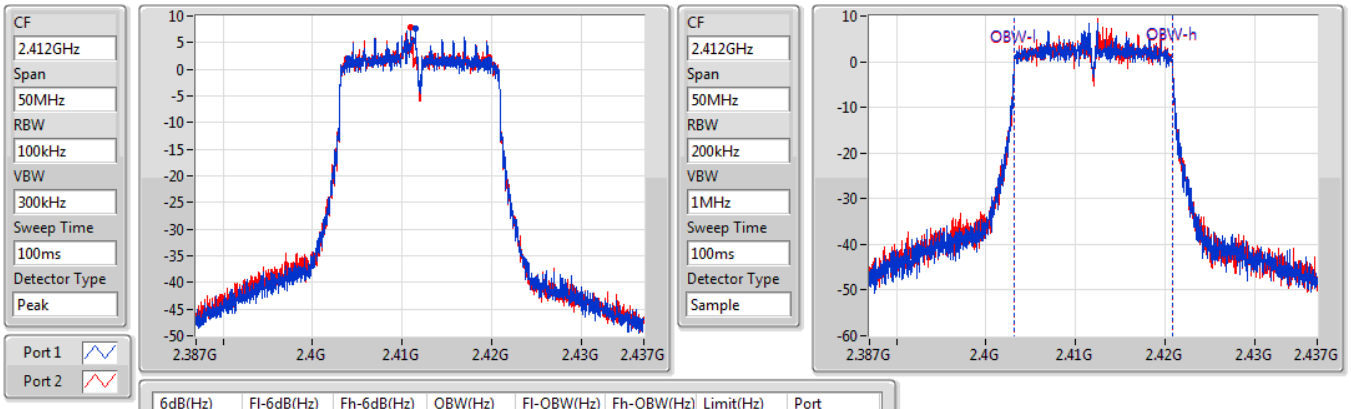
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.825M	17.586M	15.95M	17.586M
2437MHz	Pass	500k	17.5M	17.63M	17.55M	17.67M
2462MHz	Pass	500k	16.85M	17.572M	15.275M	17.607M
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	31.35M	35.941M	35M	35.889M
2437MHz	Pass	500k	33.7M	35.919M	35.25M	35.906M
2452MHz	Pass	500k	35M	35.901M	34.95M	35.855M

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

VHT20-BF_Nss1,(MCS0)_2TX EBW

2412MHz

02/08/2019

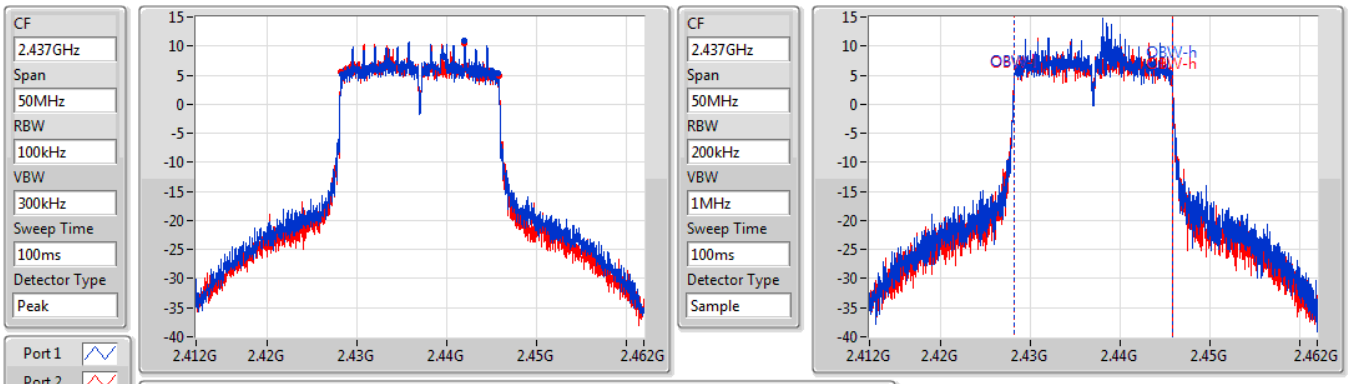


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.825M	2.403925G	2.41975G	17.586M	2.403197G	2.420783G	500k	1
15.95M	2.403825G	2.419775G	17.586M	2.403198G	2.420784G	500k	2

VHT20-BF_Nss1,(MCS0)_2TX EBW

2437MHz

02/08/2019

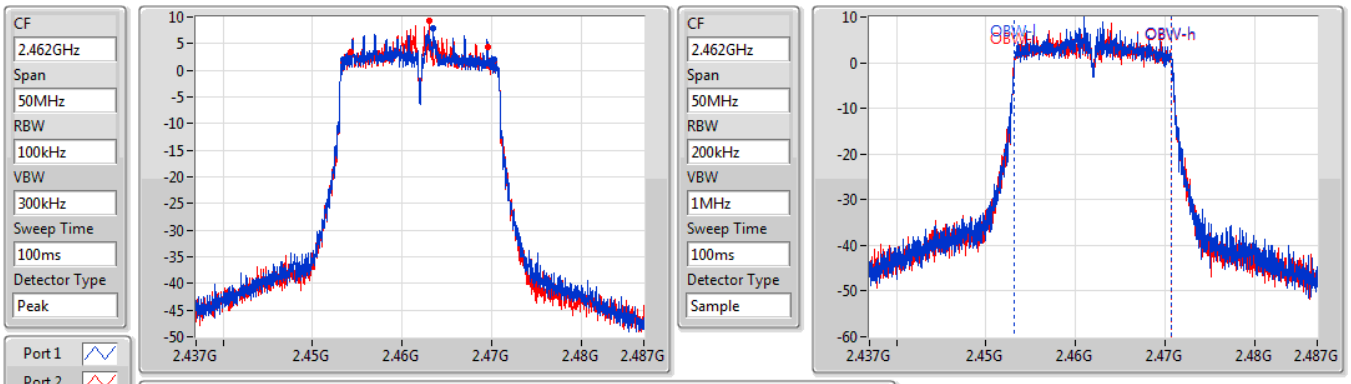


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.5M	2.42825G	2.44575G	17.63M	2.428182G	2.445812G	500k	1
17.55M	2.428225G	2.445775G	17.67M	2.428138G	2.445808G	500k	2

VHT20-BF_Nss1,(MCS0)_2TX EBW

2462MHz

02/08/2019

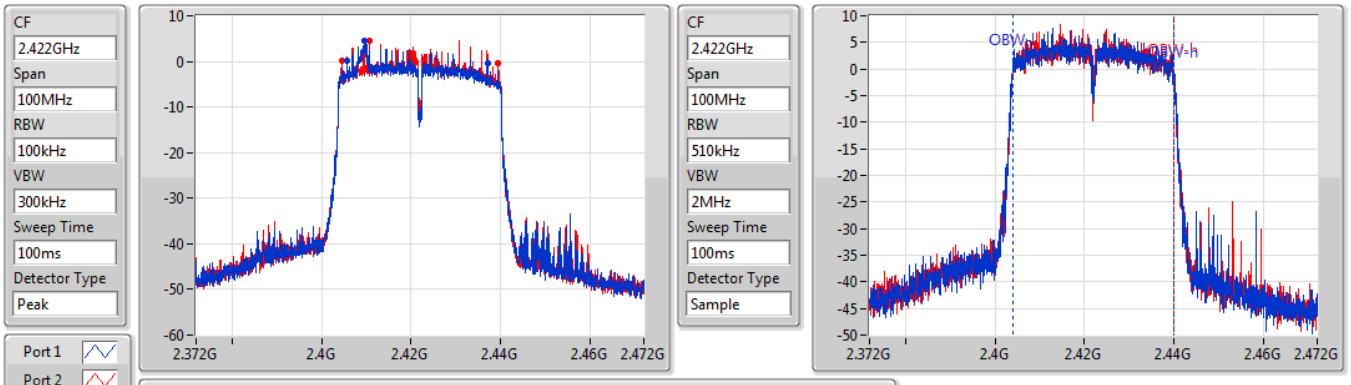


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.85M	2.453375G	2.470225G	17.572M	2.453188G	2.47076G	500k	1
15.275M	2.45425G	2.469525G	17.607M	2.453167G	2.470774G	500k	2

VHT40-BF_Nss1,(MCS0)_2TX EBW

2422MHz

02/08/2019



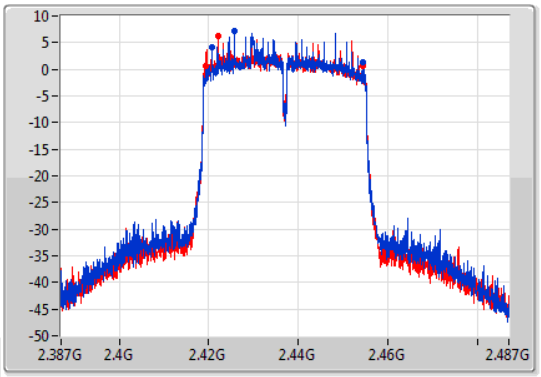
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
31.35M	2.4057G	2.43705G	35.941M	2.403986G	2.439927G	500k	1
35M	2.4045G	2.4395G	35.889M	2.40398G	2.43987G	500k	2

VHT40-BF_Nss1,(MCS0)_2TX EBW

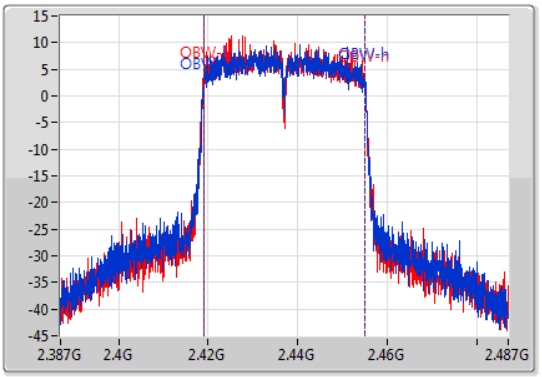
2437MHz

02/08/2019

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



CF	2.437GHz
Span	100MHz
RBW	510kHz
VBW	2MHz
Sweep Time	100ms
Detector Type	Sample



Port 1
Port 2

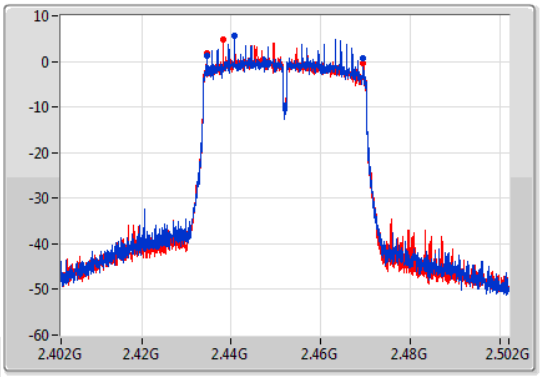
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.7M	2.42075G	2.45445G	35.919M	2.419015G	2.454934G	500k	1
35.25M	2.4192G	2.45445G	35.906M	2.418951G	2.454857G	500k	2

VHT40-BF_Nss1,(MCS0)_2TX EBW

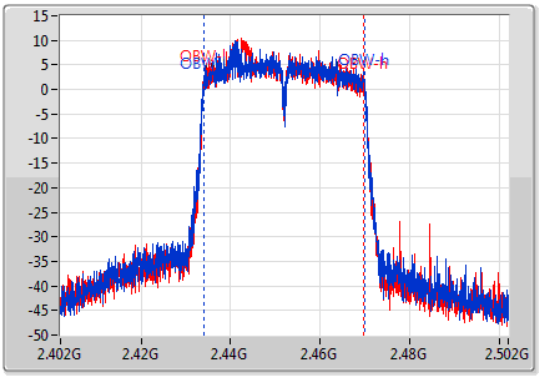
2452MHz

02/08/2019

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



CF	2.452GHz
Span	100MHz
RBW	510kHz
VBW	2MHz
Sweep Time	100ms
Detector Type	Sample



Port 1
Port 2

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	2.4345G	2.4695G	35.901M	2.433995G	2.469896G	500k	1
34.95M	2.4345G	2.46945G	35.855M	2.43396G	2.469815G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.06	0.50816
802.11g_Nss1,(6Mbps)_2TX	26.23	0.41976
VHT20_Nss1,(MCS0)_2TX	26.15	0.41210
VHT40_Nss1,(MCS0)_2TX	22.38	0.17298

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	23.23	23.16	26.21	30.00
2437MHz	Pass	4.51	24.18	23.92	27.06	30.00
2462MHz	Pass	4.51	22.50	22.05	25.29	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	17.46	17.36	20.42	30.00
2417MHz	Pass	4.51	19.70	19.82	22.77	30.00
2437MHz	Pass	4.51	23.35	23.08	26.23	30.00
2457MHz	Pass	4.51	19.69	19.40	22.56	30.00
2462MHz	Pass	4.51	17.71	17.57	20.65	30.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	18.97	18.86	21.93	30.00
2417MHz	Pass	4.51	20.77	20.49	23.64	30.00
2437MHz	Pass	4.51	23.23	23.05	26.15	30.00
2457MHz	Pass	4.51	20.38	20.37	23.39	30.00
2462MHz	Pass	4.51	19.04	18.84	21.95	30.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.51	18.15	18.00	21.09	30.00
2437MHz	Pass	4.51	19.40	19.34	22.38	30.00
2452MHz	Pass	4.51	18.54	18.20	21.38	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
VHT20-BF_Nss1,(MCS0)_2TX	25.03	0.31842
VHT40-BF_Nss1,(MCS0)_2TX	22.76	0.18880

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	17.40	17.56	20.49	30.00
2417MHz	Pass	4.51	19.40	19.34	22.38	30.00
2437MHz	Pass	4.51	22.08	21.96	25.03	30.00
2457MHz	Pass	4.51	20.27	20.04	23.17	30.00
2462MHz	Pass	4.51	18.10	17.92	21.02	30.00
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.51	17.25	16.91	20.09	30.00
2427MHz	Pass	4.51	17.84	17.96	20.91	30.00
2437MHz	Pass	4.51	19.64	19.85	22.76	30.00
2452MHz	Pass	4.51	17.79	17.65	20.73	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	1.71
802.11g_Nss1,(6Mbps)_2TX	-1.48
VHT20_Nss1,(MCS0)_2TX	-1.09
VHT40_Nss1,(MCS0)_2TX	-8.01

RBW=3 kHz.

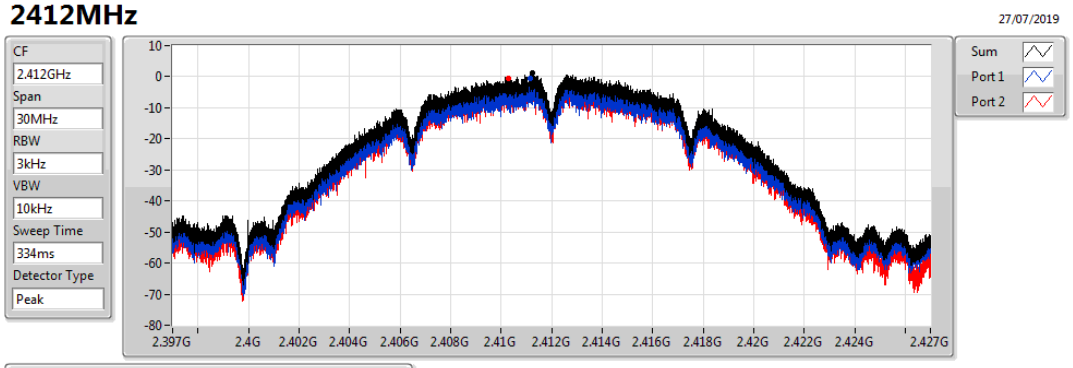
Result

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	4.51	-0.53	-0.65	1.16	8.00
2437MHz	Pass	4.51	-0.13	-0.23	1.71	8.00
2462MHz	Pass	4.51	-1.28	-2.17	0.58	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	-8.72	-9.59	-6.62	8.00
2437MHz	Pass	4.51	-2.78	-4.12	-1.48	8.00
2462MHz	Pass	4.51	-8.72	-7.60	-6.42	8.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	-6.94	-7.19	-5.75	8.00
2437MHz	Pass	4.51	-2.95	-3.28	-1.09	8.00
2462MHz	Pass	4.51	-7.43	-7.89	-5.98	8.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.51	-10.51	-11.09	-9.49	8.00
2437MHz	Pass	4.51	-9.68	-9.58	-8.01	8.00
2452MHz	Pass	4.51	-10.17	-10.20	-9.02	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

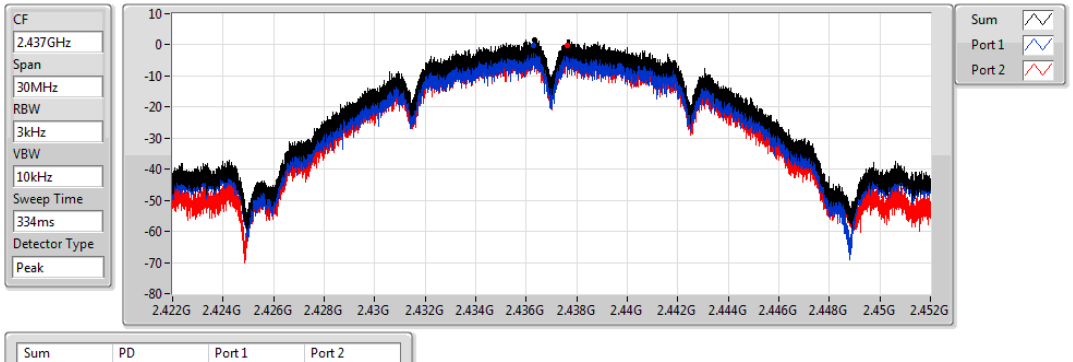
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.16	1.16	-0.53	-0.65

802.11b_Nss1,(1Mbps)_2TX PSD

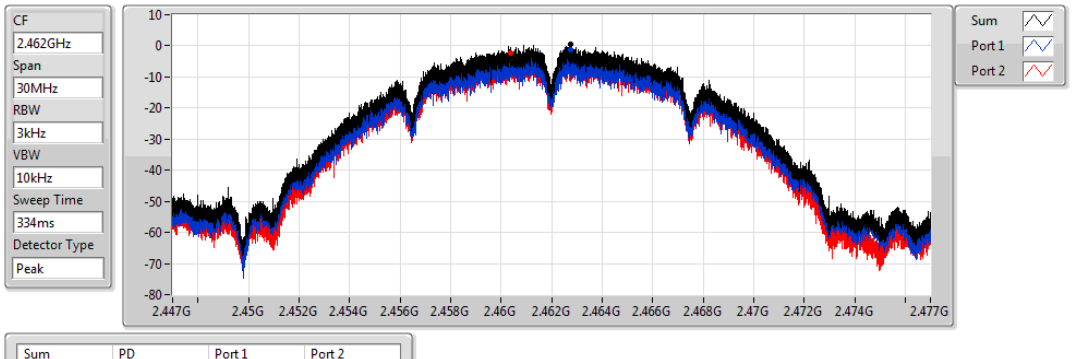
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.71	1.71	-0.13	-0.23

802.11b_Nss1,(1Mbps)_2TX PSD

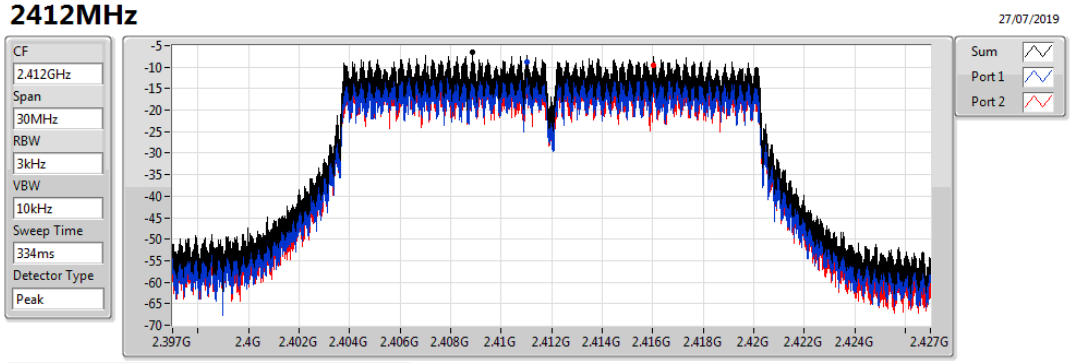
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.58	0.58	-1.28	-2.17

802.11g_Nss1,(6Mbps)_2TX PSD

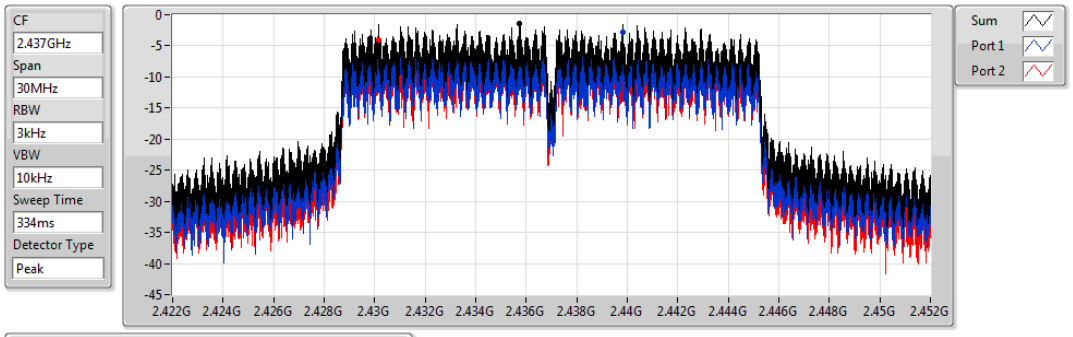
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.62	-6.62	-8.72	-9.59

802.11g_Nss1,(6Mbps)_2TX PSD

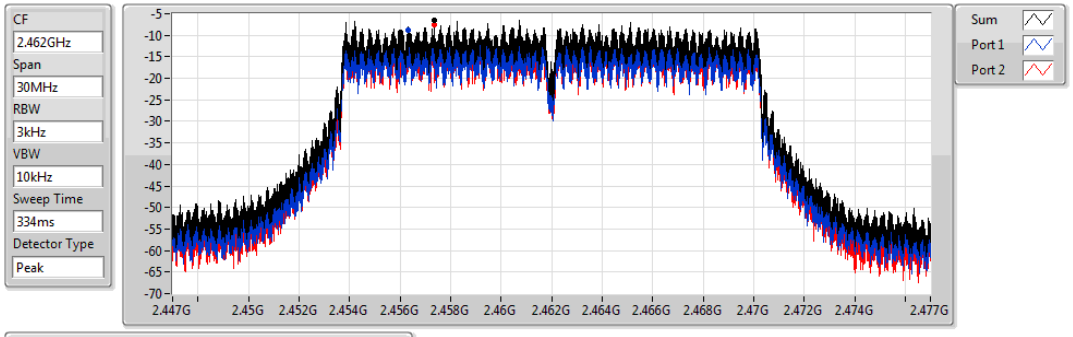
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.48	-1.48	-2.78	-4.12

802.11g_Nss1,(6Mbps)_2TX PSD

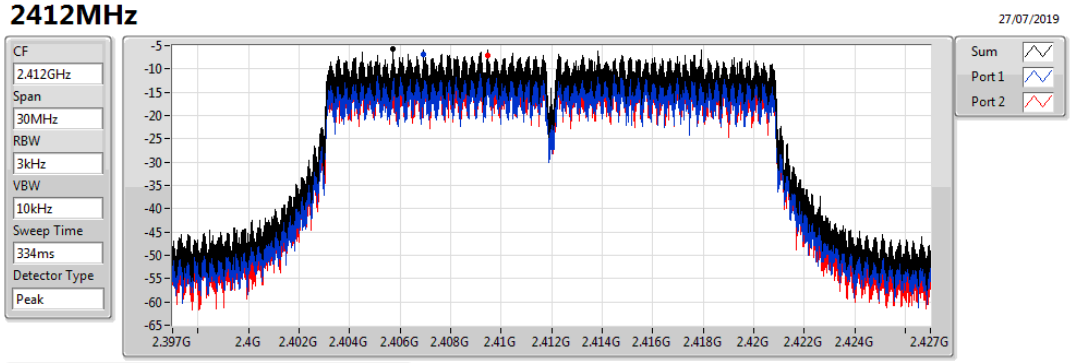
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.42	-6.42	-8.72	-7.60

VHT20_Nss1,(MCS0)_2TX PSD

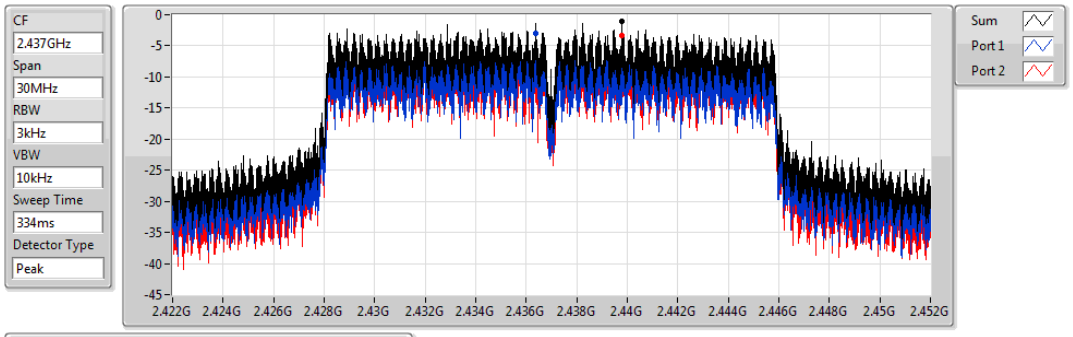
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.75	-5.75	-6.94	-7.19

VHT20_Nss1,(MCS0)_2TX PSD

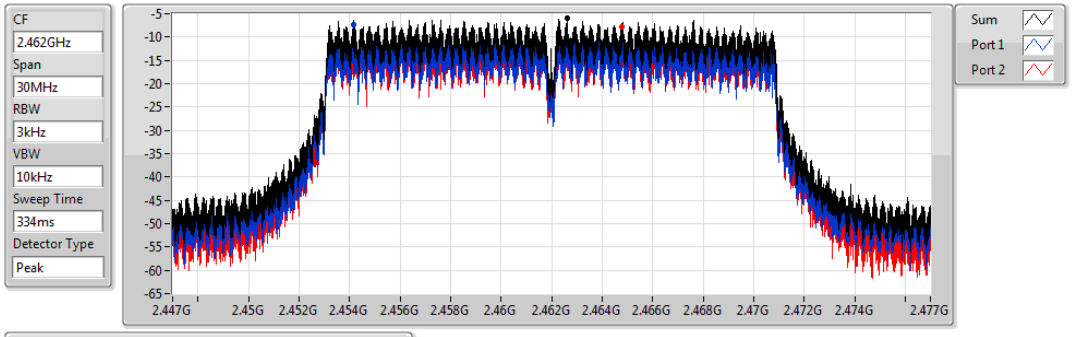
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.09	-1.09	-2.95	-3.28

VHT20_Nss1,(MCS0)_2TX PSD

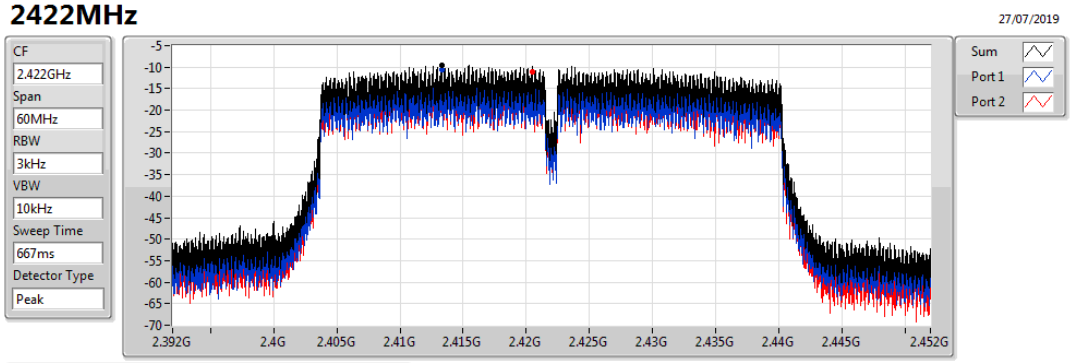
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.98	-5.98	-7.43	-7.89

VHT40_Nss1,(MCS0)_2TX PSD

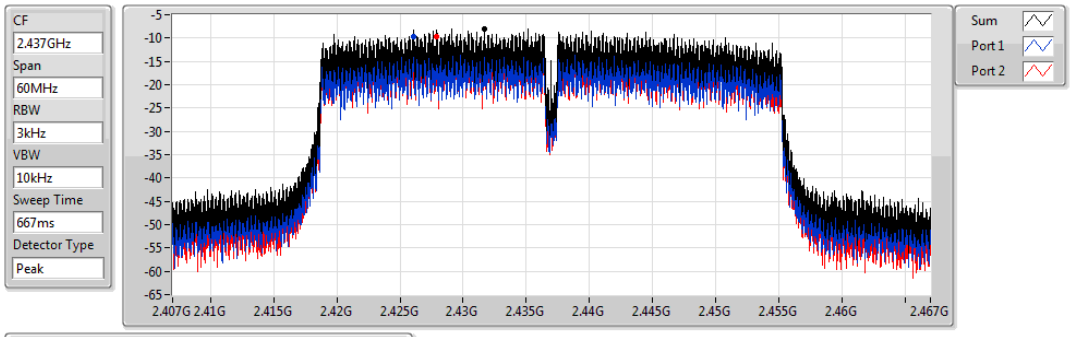
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.49	-9.49	-10.51	-11.09

VHT40_Nss1,(MCS0)_2TX PSD

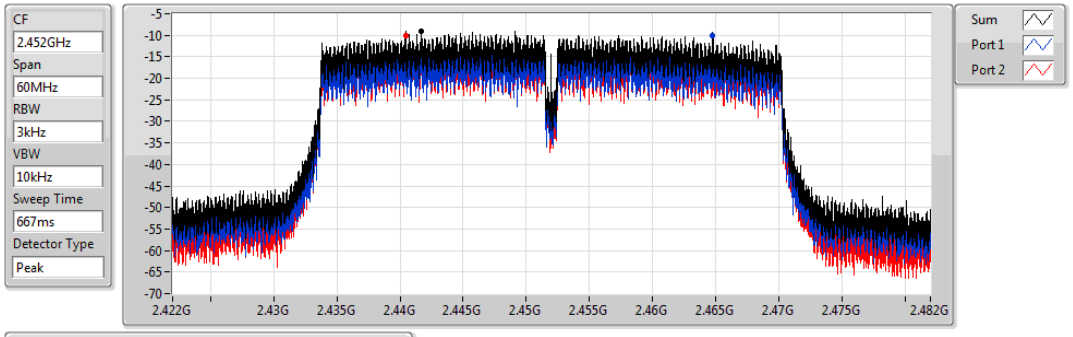
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.01	-8.01	-9.68	-9.58

VHT40_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.02	-9.02	-10.17	-10.20

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
VHT20-BF_Nss1,(MCS0)_2TX	3.18
VHT40-BF_Nss1,(MCS0)_2TX	-2.10

RBW=3 kHz.

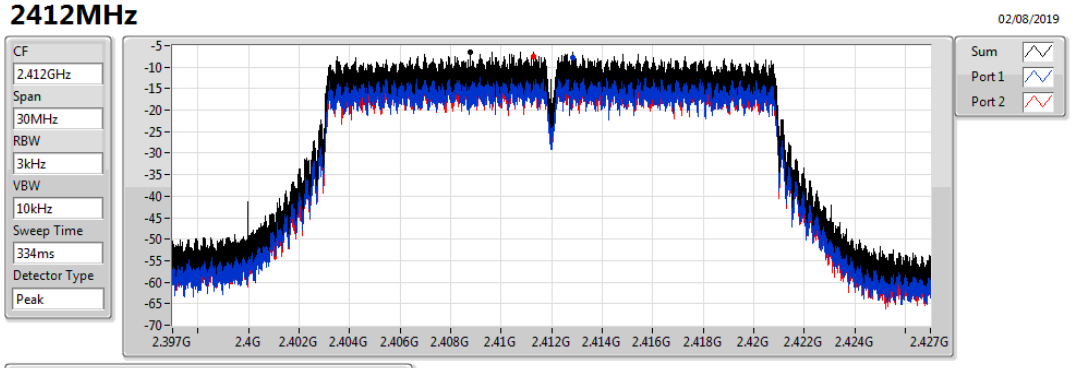
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.51	-7.68	-7.47	-6.47	8.00
2437MHz	Pass	4.51	-1.38	2.84	3.18	8.00
2462MHz	Pass	4.51	-6.40	-5.58	-4.78	8.00
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.51	-6.57	-5.35	-5.09	8.00
2437MHz	Pass	4.51	-3.12	-3.85	-2.10	8.00
2452MHz	Pass	4.51	-6.07	-6.22	-5.18	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;

VHT20-BF_Nss1,(MCS0)_2TX PSD

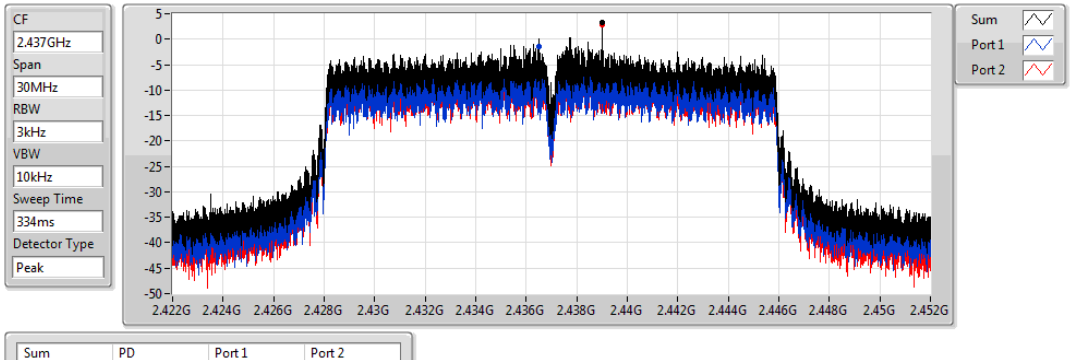
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.47	-6.47	-7.68	-7.47

VHT20-BF_Nss1,(MCS0)_2TX PSD

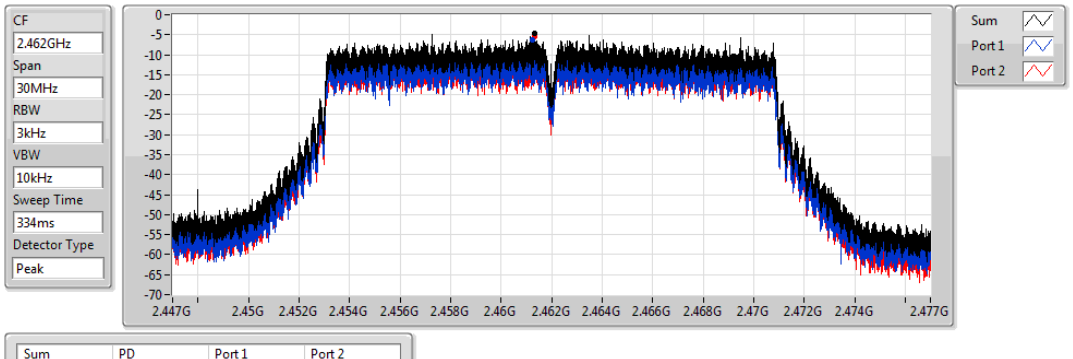
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.18	3.18	-1.38	2.84

VHT20-BF_Nss1,(MCS0)_2TX PSD

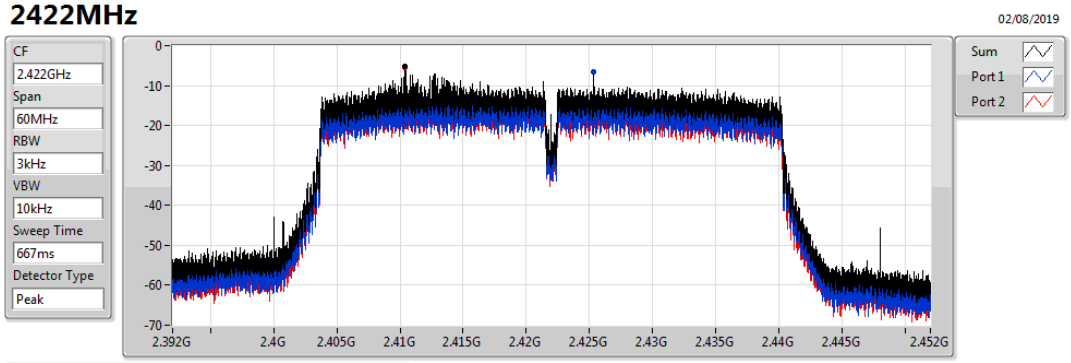
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.78	-4.78	-6.40	-5.58

VHT40-BF_Nss1,(MCS0)_2TX PSD

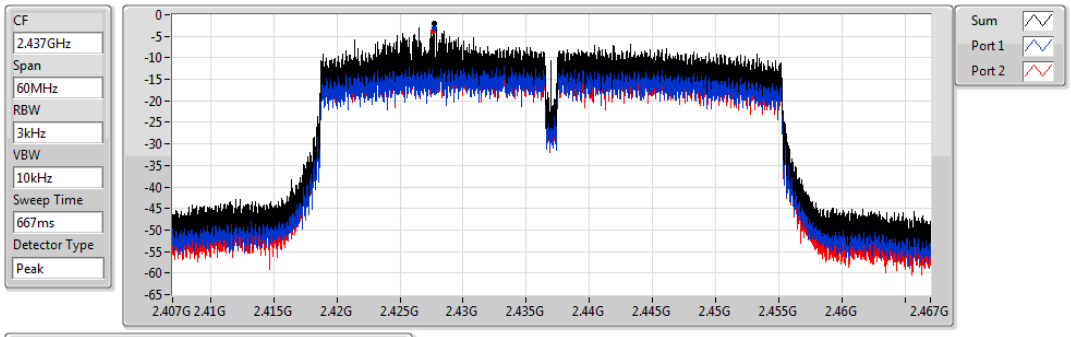
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.09	-5.09	-6.57	-5.35

VHT40-BF_Nss1,(MCS0)_2TX PSD

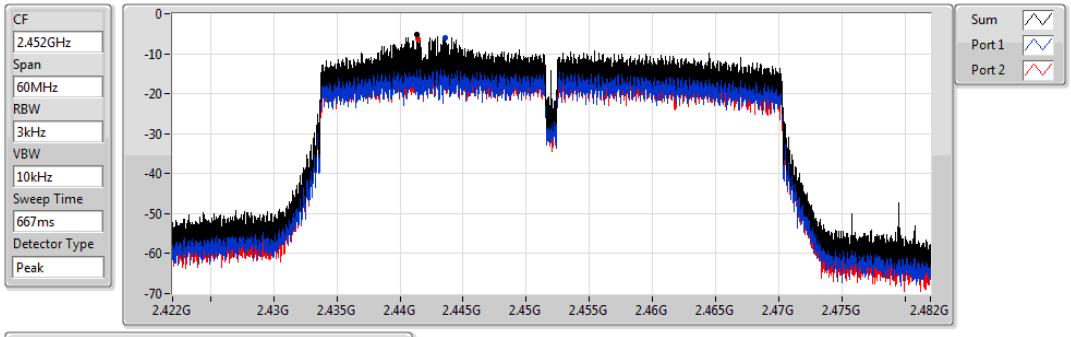
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.10	-2.10	-3.12	-3.85

VHT40-BF_Nss1,(MCS0)_2TX PSD

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.18	-5.18	-6.07	-6.22

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	2.43599G	14.65	-15.35	2.06409G	-52.30	2.396G	-32.04	2.496G	-50.43	16.21169G	-43.71	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44196G	11.84	-18.16	2.30408G	-52.85	2.39954G	-33.01	2.49604G	-50.54	17.66423G	-43.43	1
VHT20_Nss1,(MCS0)_2TX	Pass	2.442G	12.16	-17.84	805.02M	-52.50	2.39978G	-28.55	2.49596G	-49.86	24.98033G	-44.86	1
VHT40_Nss1,(MCS0)_2TX	Pass	2.44075G	4.89	-25.11	2.30426G	-51.25	2.39956G	-32.01	2.48482G	-40.67	15.29341G	-43.87	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	14.65	-15.35	2.06409G	-52.30	2.396G	-32.04	2.496G	-50.43	16.21169G	-43.71	1
2412MHz	Pass	2.43599G	14.65	-15.35	2.30408G	-52.44	2.39748G	-32.05	2.49596G	-51.55	17.63614G	-43.32	2
2437MHz	Pass	2.43599G	14.65	-15.35	1.62459G	-50.33	2.39998G	-44.80	2.49596G	-50.70	24.72185G	-44.26	1
2437MHz	Pass	2.43599G	14.65	-15.35	1.62459G	-49.77	2.39996G	-45.66	2.48772G	-50.88	17.6249G	-44.83	2
2462MHz	Pass	2.43599G	14.65	-15.35	1.64149G	-49.41	2.39998G	-46.68	2.48766G	-46.89	17.60242G	-43.99	1
2462MHz	Pass	2.43599G	14.65	-15.35	1.64149G	-48.27	2.39998G	-49.32	2.48796G	-47.99	3.28208G	-43.80	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44196G	11.84	-18.16	2.30408G	-52.85	2.39954G	-33.01	2.49604G	-50.54	17.66423G	-43.43	1
2412MHz	Pass	2.44196G	11.84	-18.16	2.30408G	-51.88	2.3992G	-34.79	2.49602G	-51.26	3.21465G	-44.14	2
2437MHz	Pass	2.44196G	11.84	-18.16	717.64M	-53.41	2.39952G	-35.42	2.487G	-43.58	21.75215G	-44.92	1
2437MHz	Pass	2.44196G	11.84	-18.16	2.30408G	-51.52	2.39914G	-36.71	2.48384G	-44.63	24.12061G	-43.62	2
2462MHz	Pass	2.44196G	11.84	-18.16	2.1602G	-51.93	2.39996G	-46.66	2.4839G	-44.27	13.90223G	-42.93	1
2462MHz	Pass	2.44196G	11.84	-18.16	497.17M	-52.77	2.39998G	-48.77	2.48472G	-43.82	3.28208G	-42.98	2
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.442G	12.16	-17.84	805.02M	-52.50	2.39978G	-28.55	2.49596G	-49.86	24.98033G	-44.86	1
2412MHz	Pass	2.442G	12.16	-17.84	2.30408G	-49.95	2.39882G	-29.43	2.50088G	-51.69	17.60804G	-44.53	2
2437MHz	Pass	2.442G	12.16	-17.84	846.08M	-54.03	2.39954G	-36.16	2.48368G	-44.07	17.63614G	-44.38	1
2437MHz	Pass	2.442G	12.16	-17.84	2.30408G	-52.15	2.3998G	-36.72	2.4838G	-43.60	24.72466G	-44.73	2
2462MHz	Pass	2.442G	12.16	-17.84	2.1602G	-51.15	2.39998G	-47.05	2.48388G	-34.94	17.66423G	-44.40	1
2462MHz	Pass	2.442G	12.16	-17.84	2.30408G	-50.99	2.39998G	-48.80	2.48384G	-38.87	3.28208G	-42.93	2
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	4.89	-25.11	2.30426G	-53.58	2.3914G	-33.00	2.48482G	-50.43	16.2105G	-44.18	1
2422MHz	Pass	2.44075G	4.89	-25.11	2.30168G	-52.72	2.39576G	-34.23	2.49314G	-50.21	17.66046G	-44.15	2
2437MHz	Pass	2.44075G	4.89	-25.11	763.66M	-53.82	2.3958G	-32.21	2.4841G	-41.07	17.67168G	-44.27	1
2437MHz	Pass	2.44075G	4.89	-25.11	2.30426G	-51.25	2.39956G	-32.01	2.48482G	-40.67	15.29341G	-43.87	2
2452MHz	Pass	2.44075G	4.89	-25.11	589.05M	-53.02	2.3998G	-42.92	2.48514G	-33.53	17.32952G	-43.58	1
2452MHz	Pass	2.44075G	4.89	-25.11	2.30426G	-53.24	2.39708G	-45.22	2.48442G	-38.53	3.26745G	-42.56	2

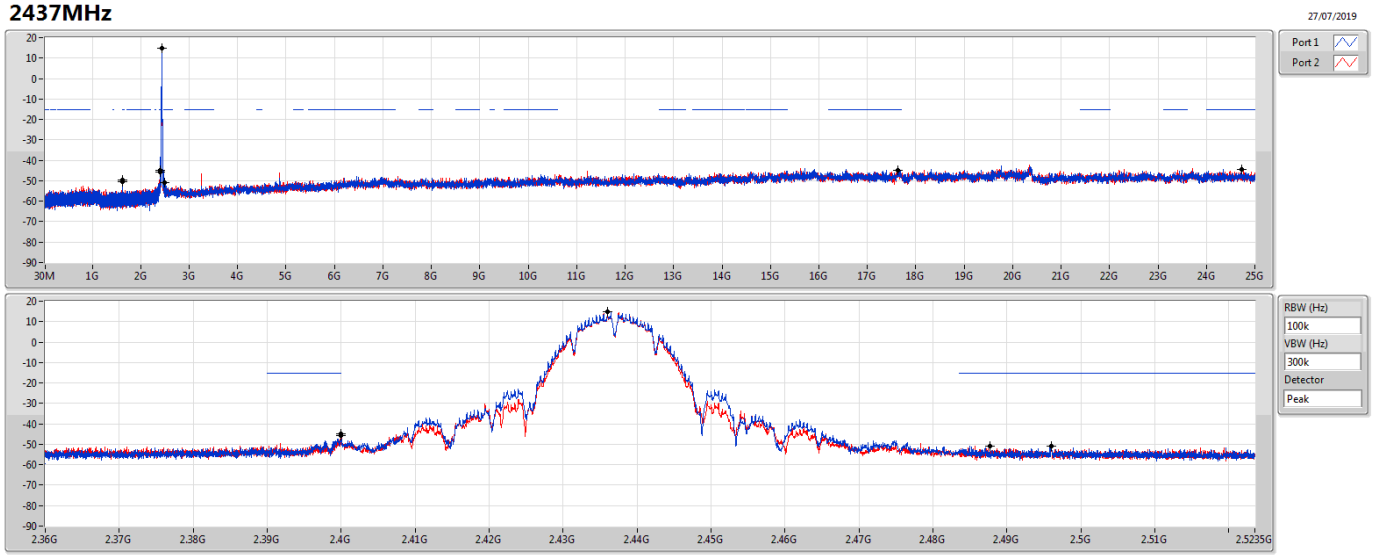
802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

2412MHz

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	14.65	-15.35	2.06409G	-52.30	2.396G	-32.04	2.496G	-50.43	16.21169G	-43.71	1
2.43599G	14.65	-15.35	2.30408G	-52.44	2.39748G	-32.05	2.49596G	-51.55	17.63614G	-43.32	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

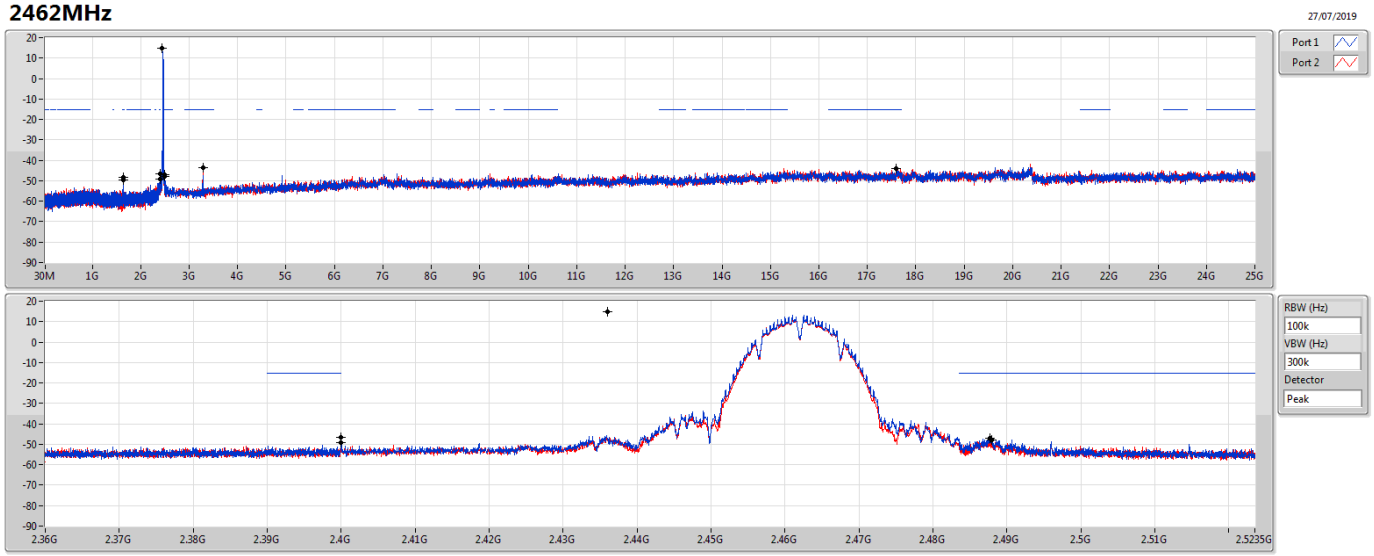
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	14.65	-15.35	1.62459G	-50.33	2.39998G	-44.80	2.49596G	-50.70	24.72185G	-44.26	1
2.43599G	14.65	-15.35	1.62459G	-49.77	2.39996G	-45.66	2.48772G	-50.88	17.6249G	-44.83	2

802.11b_Nss1,(1Mbps)_2TX **CSE NdB**

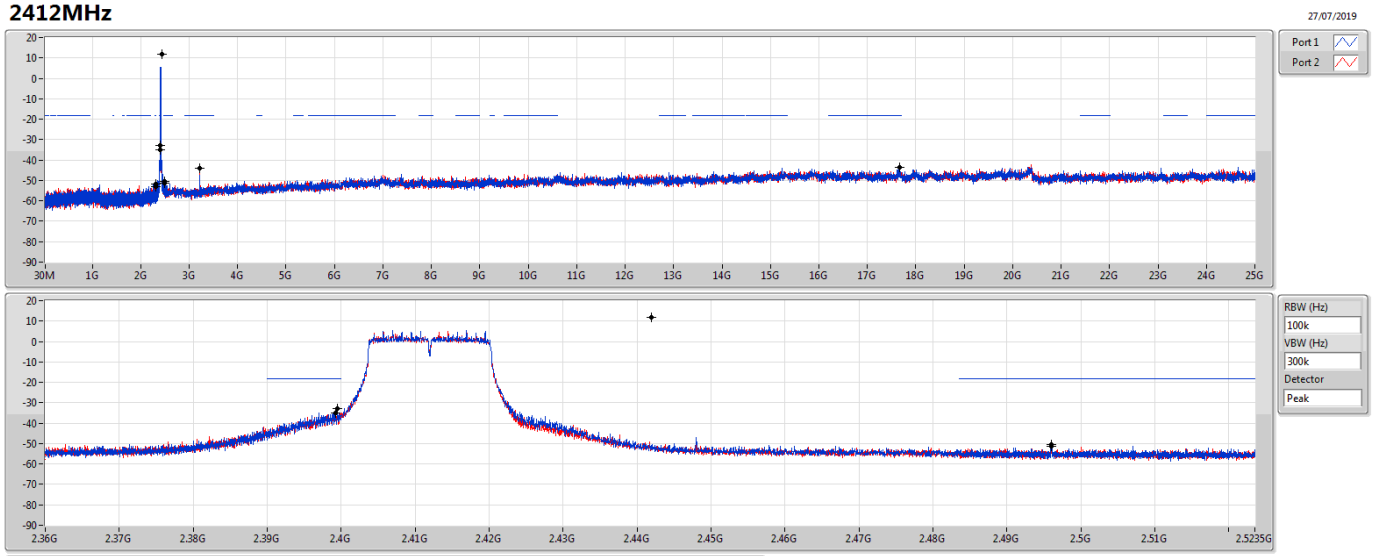
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	14.65	-15.35	1.64149G	-49.41	2.39998G	-46.68	2.48766G	-46.89	17.60242G	-43.99	1
2.43599G	14.65	-15.35	1.64149G	-48.27	2.39998G	-49.32	2.48796G	-47.99	3.28208G	-43.80	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

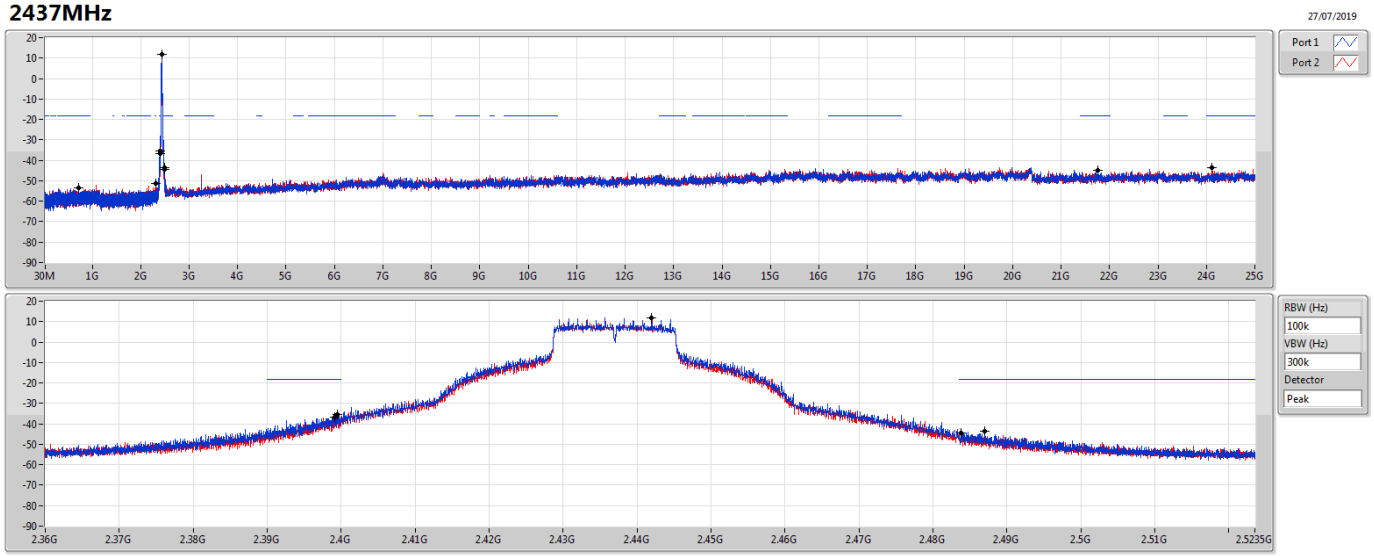
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	11.84	-18.16	2.30408G	-52.85	2.39954G	-33.01	2.49604G	-50.54	17.66423G	-43.43	1
2.44196G	11.84	-18.16	2.30408G	-51.88	2.3992G	-34.79	2.49602G	-51.26	3.21465G	-44.14	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

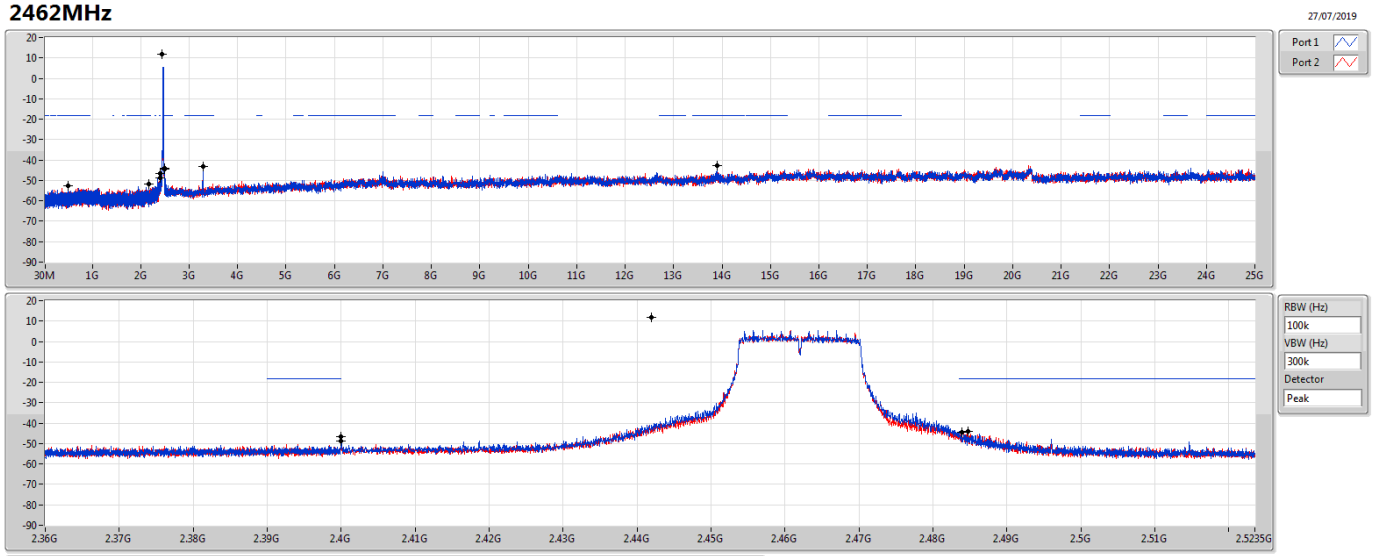
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	11.84	-18.16	717.64M	-53.41	2.39952G	-35.42	2.487G	-43.58	21.75215G	-44.92	1
2.44196G	11.84	-18.16	2.30408G	-51.52	2.39914G	-36.71	2.48384G	-44.63	24.12061G	-43.62	2

802.11g_Nss1,(6Mbps)_2TX **CSE NdB**

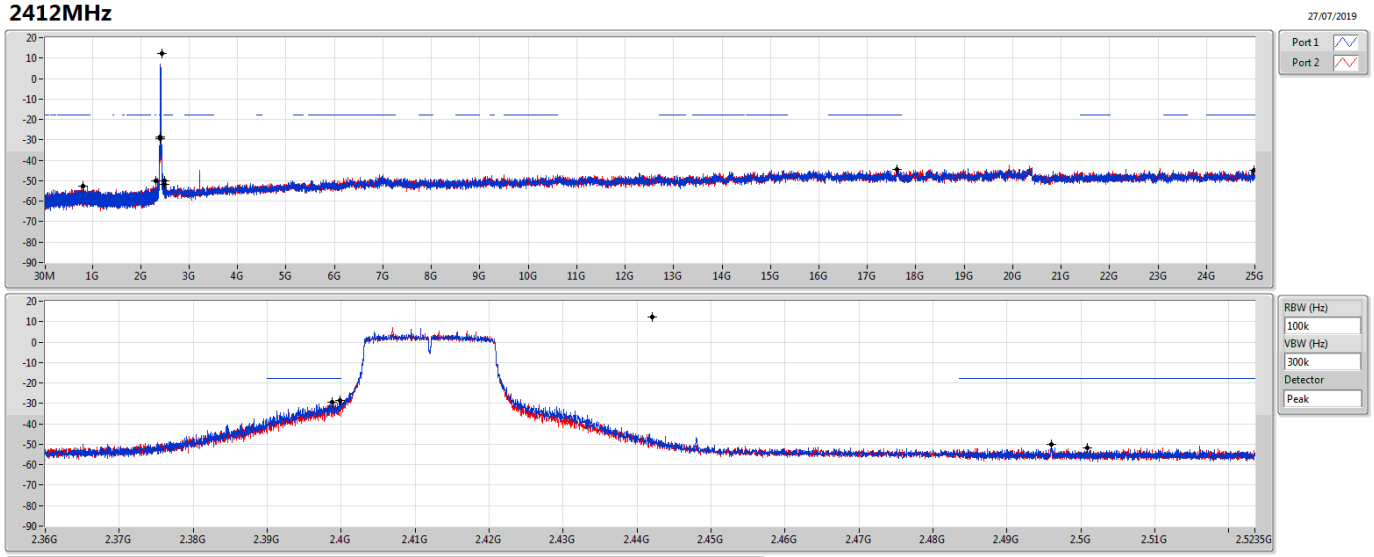
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44196G	11.84	-18.16	2.1602G	-51.93	2.39996G	-46.66	2.4839G	-44.27	13.90223G	-42.93	1
2.44196G	11.84	-18.16	497.17M	-52.77	2.39998G	-48.77	2.48472G	-43.82	3.28208G	-42.98	2

VHT20_Nss1,(MCS0)_2TX **CSE NdB**

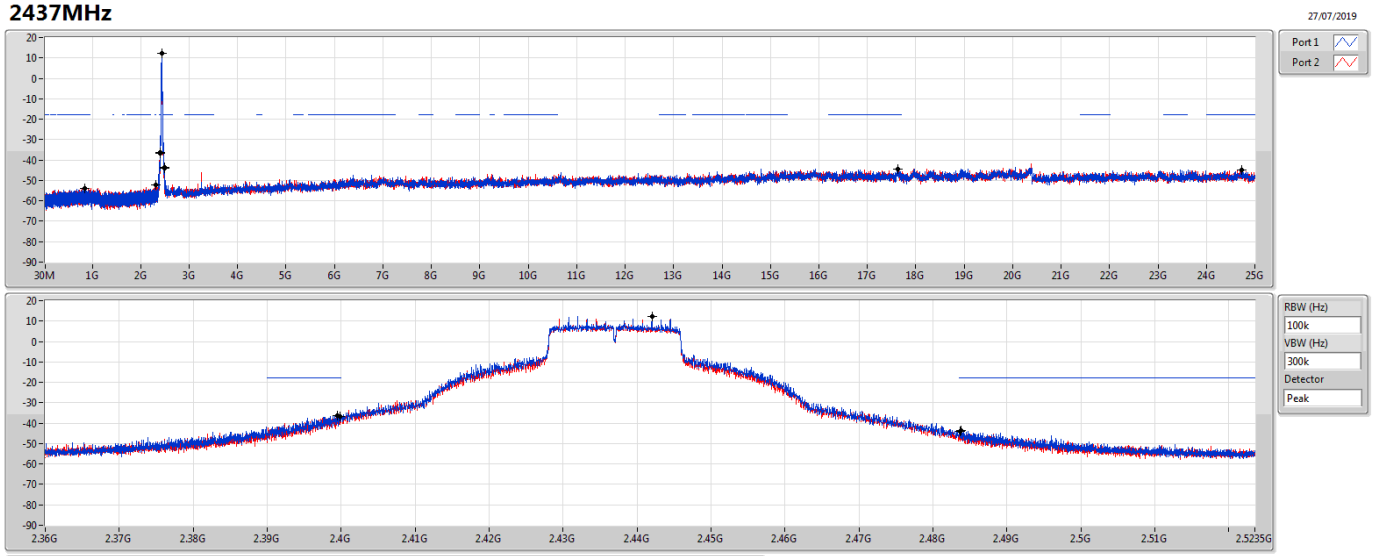
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.16	-17.84	805.02M	-52.50	2.39978G	-28.55	2.49596G	-49.86	24.98033G	-44.86	1
2.442G	12.16	-17.84	2.30408G	-49.95	2.39882G	-29.43	2.50088G	-51.69	17.60804G	-44.53	2

VHT20_Nss1,(MCS0)_2TX **CSE NdB**

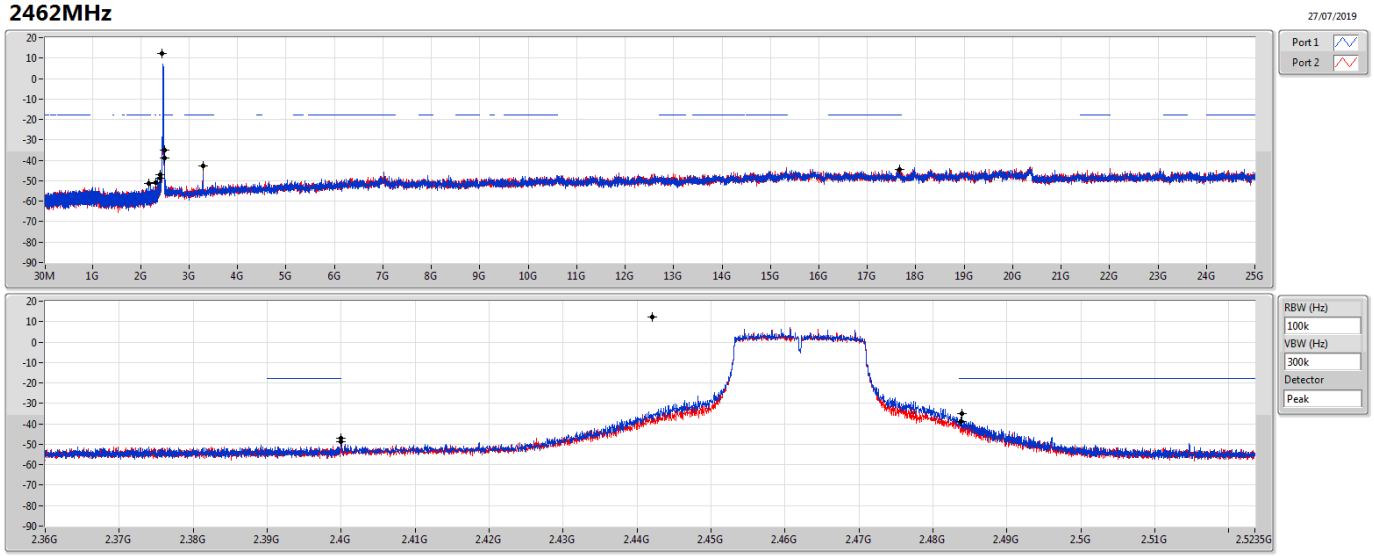
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.16	-17.84	846.08M	-54.03	2.39954G	-36.16	2.48368G	-44.07	17.63614G	-44.38	1
2.442G	12.16	-17.84	2.30408G	-52.15	2.3998G	-36.72	2.4838G	-43.60	24.72466G	-44.73	2

VHT20_Nss1,(MCS0)_2TX **CSE NdB**

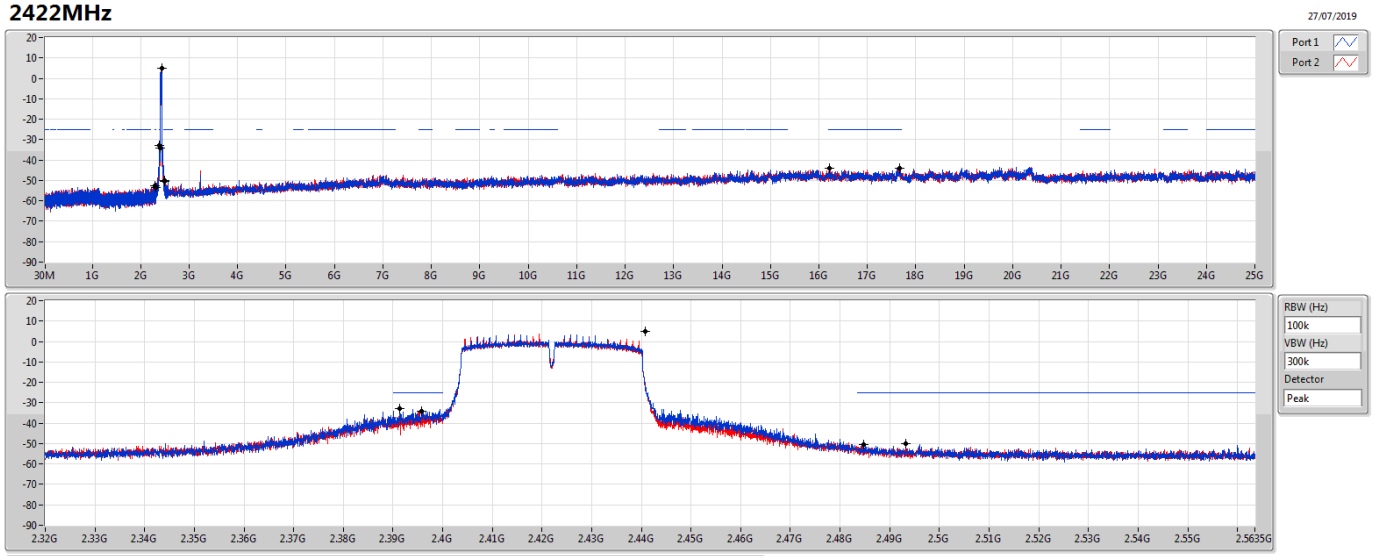
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.442G	12.16	-17.84	2.1602G	-51.15	2.39998G	-47.05	2.48388G	-34.94	17.66423G	-44.40	1
2.442G	12.16	-17.84	2.30408G	-50.99	2.39998G	-48.80	2.48384G	-38.87	3.28208G	-42.93	2

VHT40_Nss1,(MCS0)_2TX **CSE NdB**

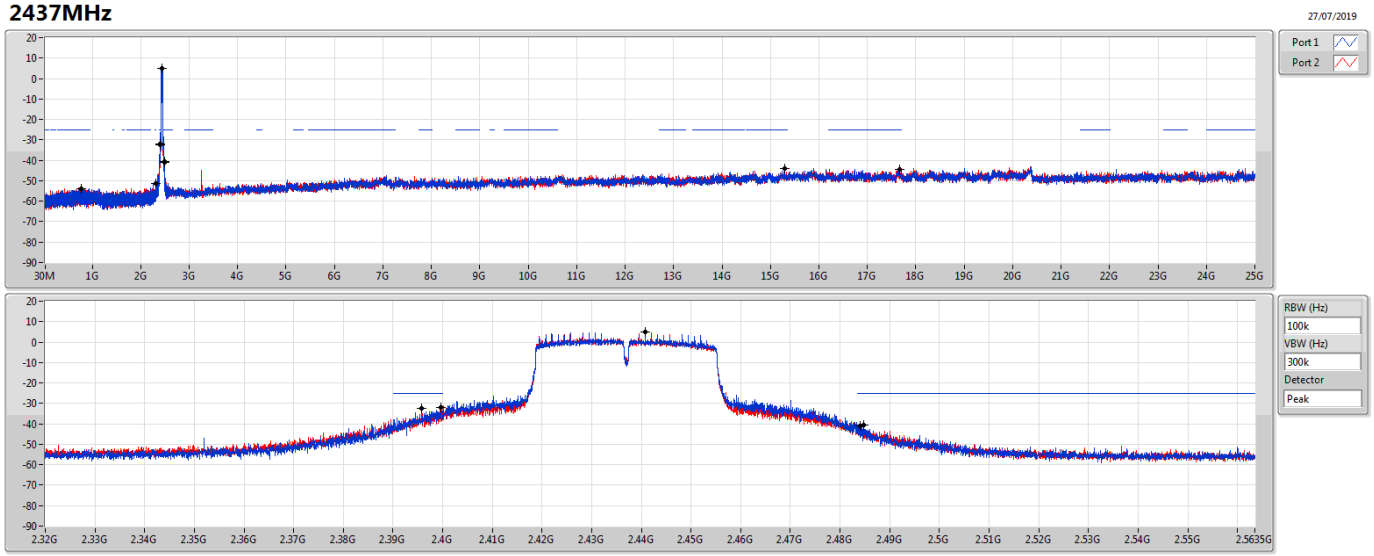
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	4.89	-25.11	2.30426G	-53.58	2.3914G	-33.00	2.48482G	-50.43	16.2105G	-44.18	1
2.44075G	4.89	-25.11	2.30168G	-52.72	2.39576G	-34.23	2.49314G	-50.21	17.66046G	-44.15	2

VHT40_Nss1,(MCS0)_2TX **CSE NdB**

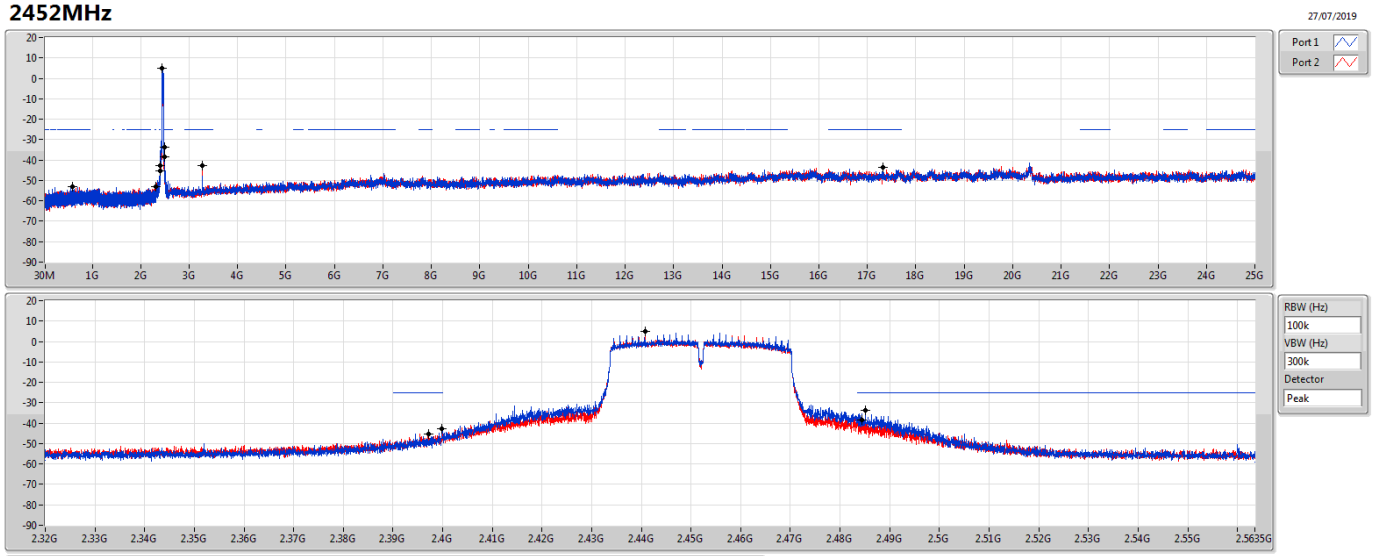
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	4.89	-25.11	763.66M	-53.82	2.3958G	-32.21	2.4841G	-41.07	17.67168G	-44.27	1
2.44075G	4.89	-25.11	2.30426G	-51.25	2.39956G	-32.01	2.48482G	-40.67	15.29341G	-43.87	2

VHT40_Nss1,(MCS0)_2TX **CSE NdB**

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	4.89	-25.11	589.05M	-53.02	2.3998G	-42.92	2.48514G	-33.53	17.32952G	-43.58	1
2.44075G	4.89	-25.11	2.30426G	-53.24	2.39708G	-45.22	2.48442G	-38.53	3.26745G	-42.56	2

Summary

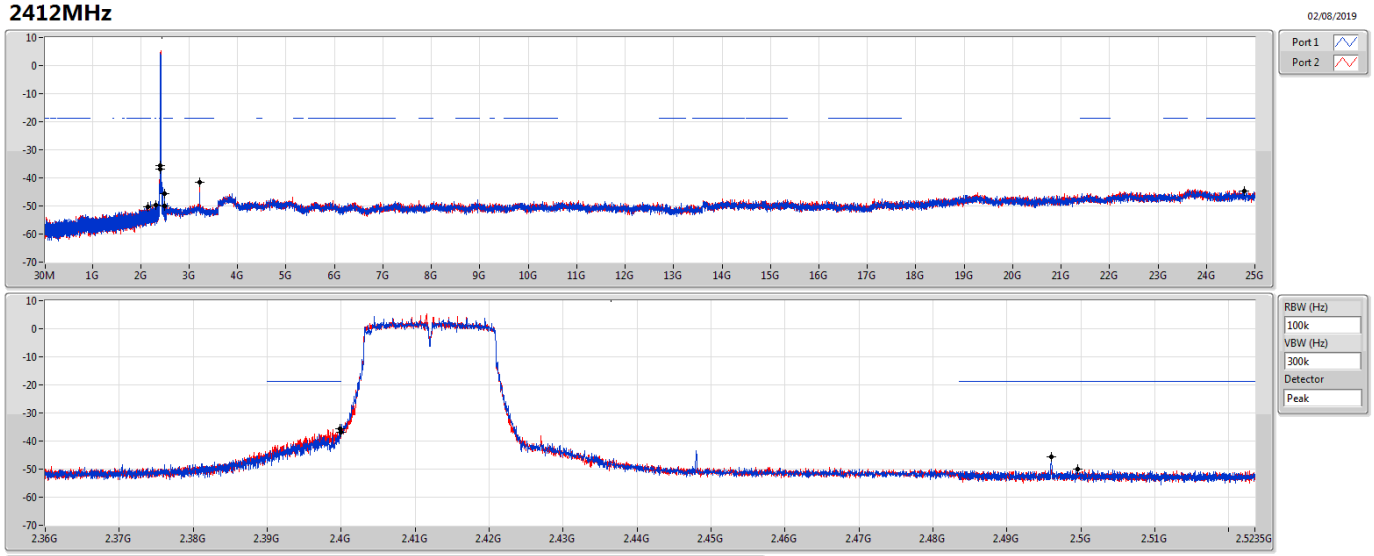
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
VHT20-BF_Nss1,(MCS0)_2TX	Pass	2.43649G	11.18	-18.82	2.14098G	-50.36	2.39982G	-35.78	2.4996G	-49.95	3.21465G	-41.67	2
VHT40-BF_Nss1,(MCS0)_2TX	Pass	2.42751G	6.80	-23.20	50.04M	-34.60	2.39984G	-34.45	2.4857G	-42.82	3.25062G	-43.11	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43649G	11.18	-18.82	2.30379G	-49.75	2.39994G	-36.96	2.496G	-45.50	24.78928G	-44.63	1
2412MHz	Pass	2.43649G	11.18	-18.82	2.14098G	-50.36	2.39982G	-35.78	2.4996G	-49.95	3.21465G	-41.67	2
2437MHz	Pass	2.43649G	11.18	-18.82	2.30379G	-48.02	2.39998G	-40.77	2.496G	-45.33	24.62914G	-44.97	1
2437MHz	Pass	2.43649G	11.18	-18.82	2.30379G	-49.03	2.39976G	-44.01	2.49598G	-48.99	3.24837G	-43.74	2
2462MHz	Pass	2.43649G	11.18	-18.82	2.30379G	-44.47	2.39998G	-40.54	2.496G	-43.21	24.70781G	-44.09	1
2462MHz	Pass	2.43649G	11.18	-18.82	2.13778G	-50.73	2.39998G	-47.28	2.48354G	-45.06	3.28208G	-41.80	2
VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.42751G	6.80	-23.20	50.04M	-36.02	2.39824G	-37.47	2.49598G	-44.62	24.5681G	-44.77	1
2422MHz	Pass	2.42751G	6.80	-23.20	50.04M	-35.57	2.39696G	-39.29	2.48702G	-49.50	3.22818G	-43.31	2
2437MHz	Pass	2.42751G	6.80	-23.20	50.04M	-34.77	2.39976G	-35.23	2.4857G	-42.10	24.02121G	-44.28	1
2437MHz	Pass	2.42751G	6.80	-23.20	50.04M	-34.60	2.39984G	-34.45	2.4857G	-42.82	3.25062G	-43.11	2
2452MHz	Pass	2.42751G	6.80	-23.20	50.04M	-35.54	2.39996G	-45.76	2.49602G	-43.87	24.60175G	-44.66	1
2452MHz	Pass	2.42751G	6.80	-23.20	50.04M	-35.31	2.39996G	-46.73	2.48466G	-41.60	3.27025G	-43.21	2

VHT20-BF_Nss1,(MCS0)_2TX **CSE NdB**

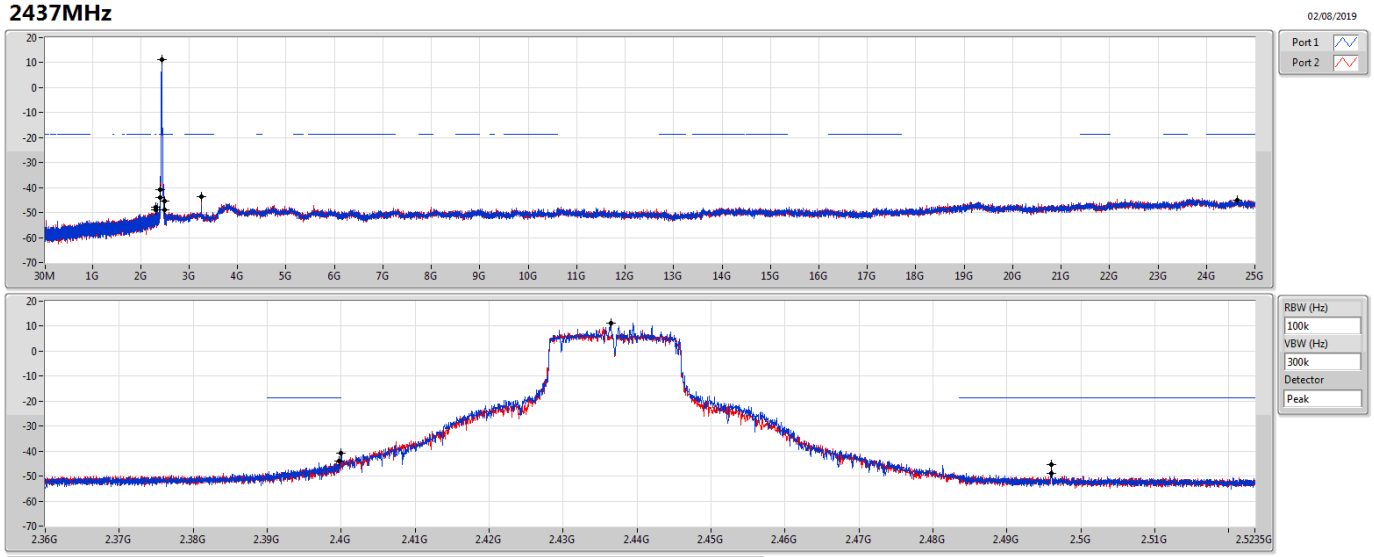
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	11.18	-18.82	2.30379G	-49.75	2.39994G	-36.96	2.496G	-45.50	24.78928G	-44.63	1
2.43649G	11.18	-18.82	2.14098G	-50.36	2.39982G	-35.78	2.4996G	-49.95	3.21465G	-41.67	2

VHT20-BF_Nss1,(MCS0)_2TX **CSE NdB**

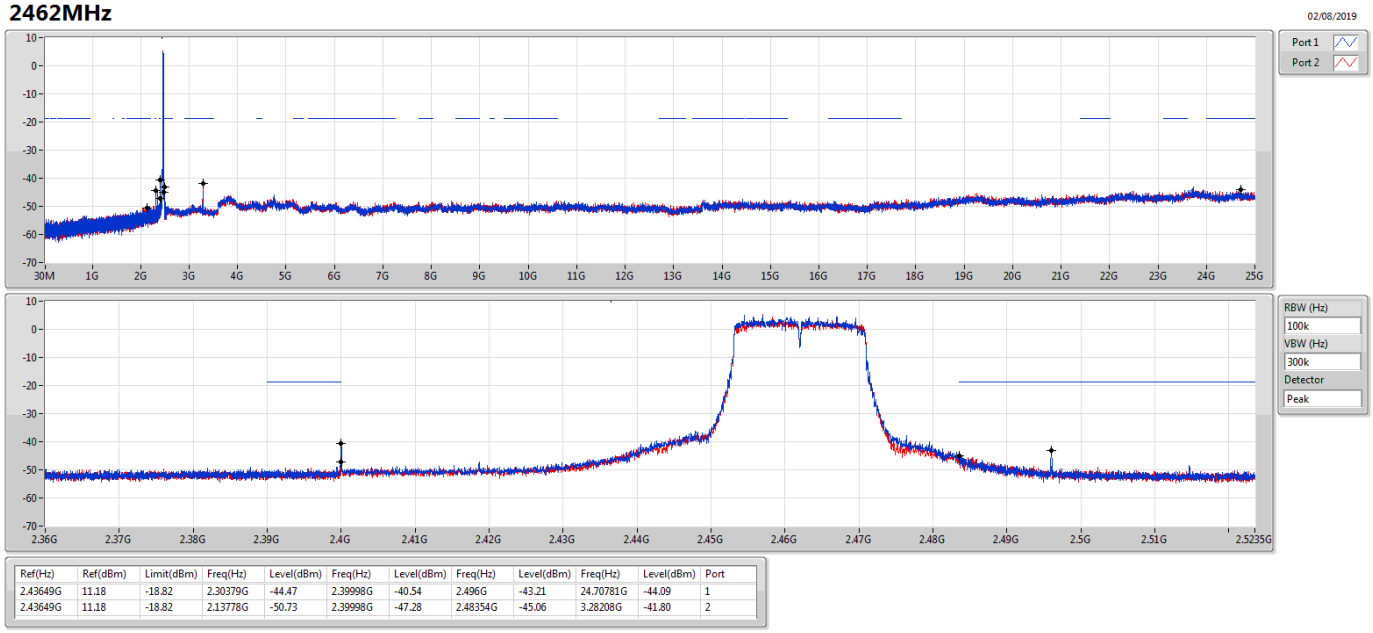
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	11.18	-18.82	2.30379G	-48.02	2.39998G	-40.77	2.496G	-45.33	24.62914G	-44.97	1
2.43649G	11.18	-18.82	2.30379G	-49.03	2.39976G	-44.01	2.49598G	-48.99	3.24837G	-43.74	2

VHT20-BF_Nss1,(MCS0)_2TX **CSE NdB**

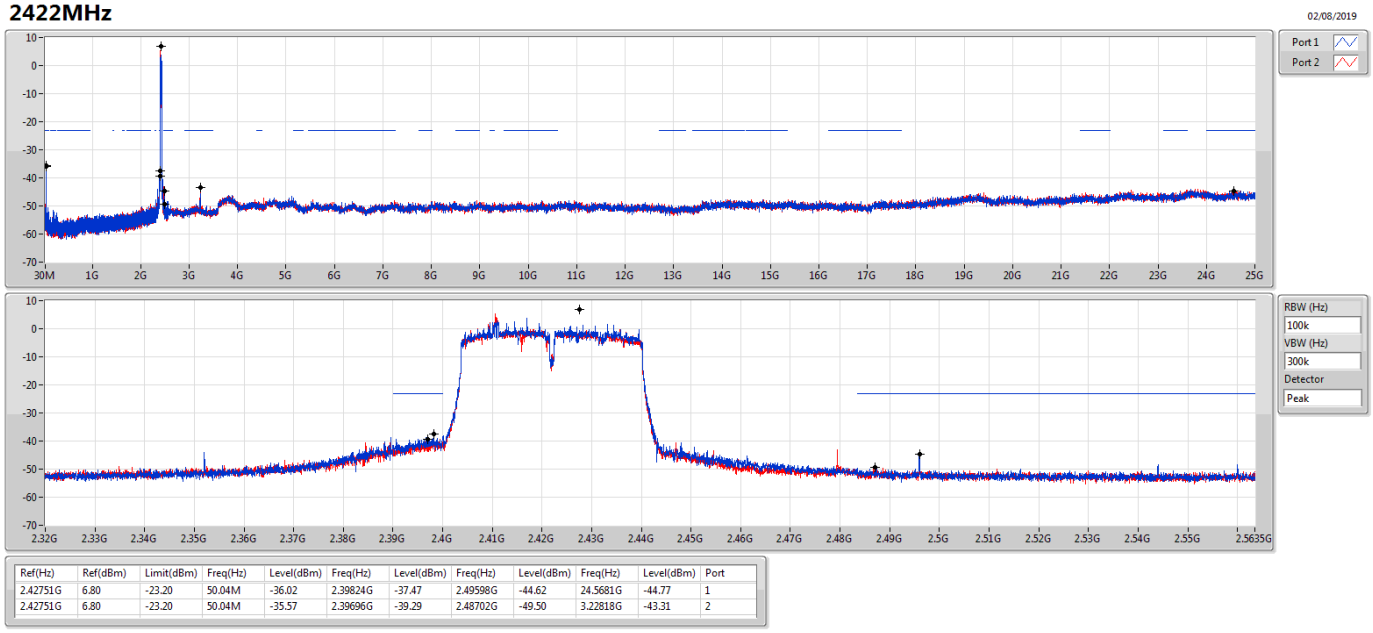
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43649G	11.18	-18.82	2.30379G	-44.47	2.39998G	-40.54	2.496G	-43.21	24.70781G	-44.09	1
2.43649G	11.18	-18.82	2.13778G	-50.73	2.39998G	-47.28	2.48354G	-45.06	3.28208G	-41.80	2

VHT40-BF_Nss1,(MCS0)_2TX **CSE NdB**

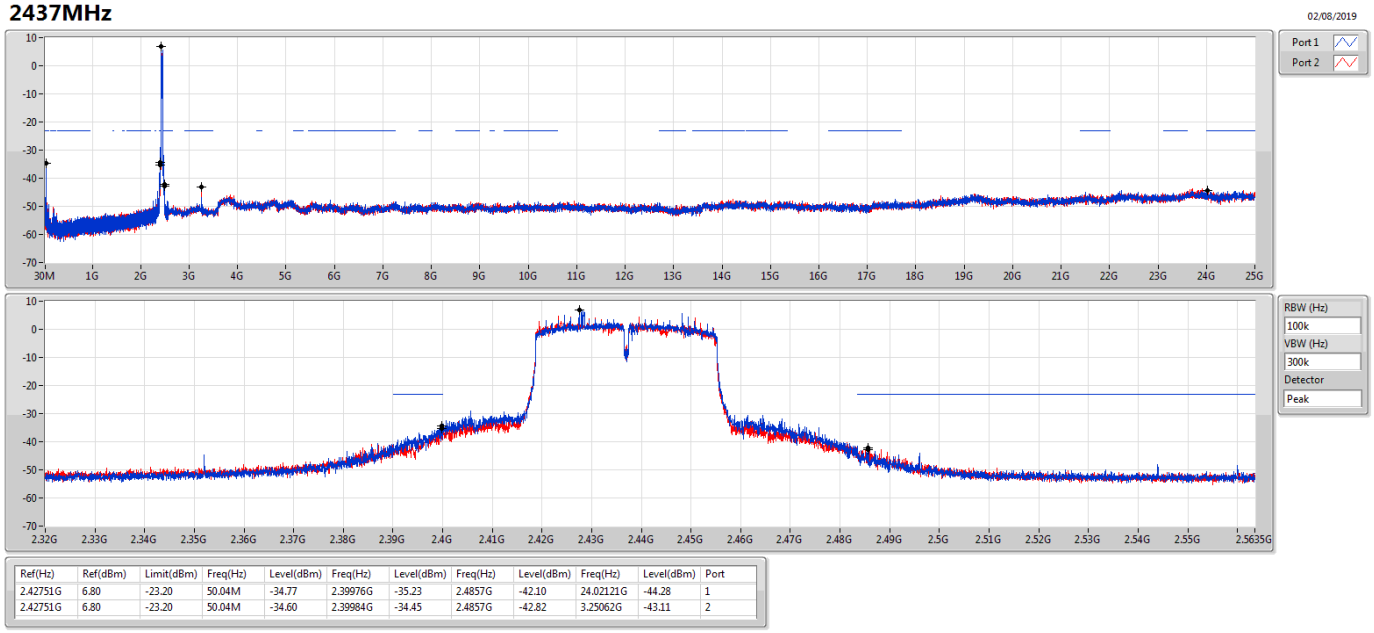
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42751G	6.80	-23.20	50.04M	-36.02	2.39824G	-37.47	2.49598G	-44.62	24.5681G	-44.77	1
2.42751G	6.80	-23.20	50.04M	-35.57	2.39696G	-39.29	2.48702G	-49.50	3.22818G	-43.31	2

VHT40-BF_Nss1,(MCS0)_2TX **CSE NdB**

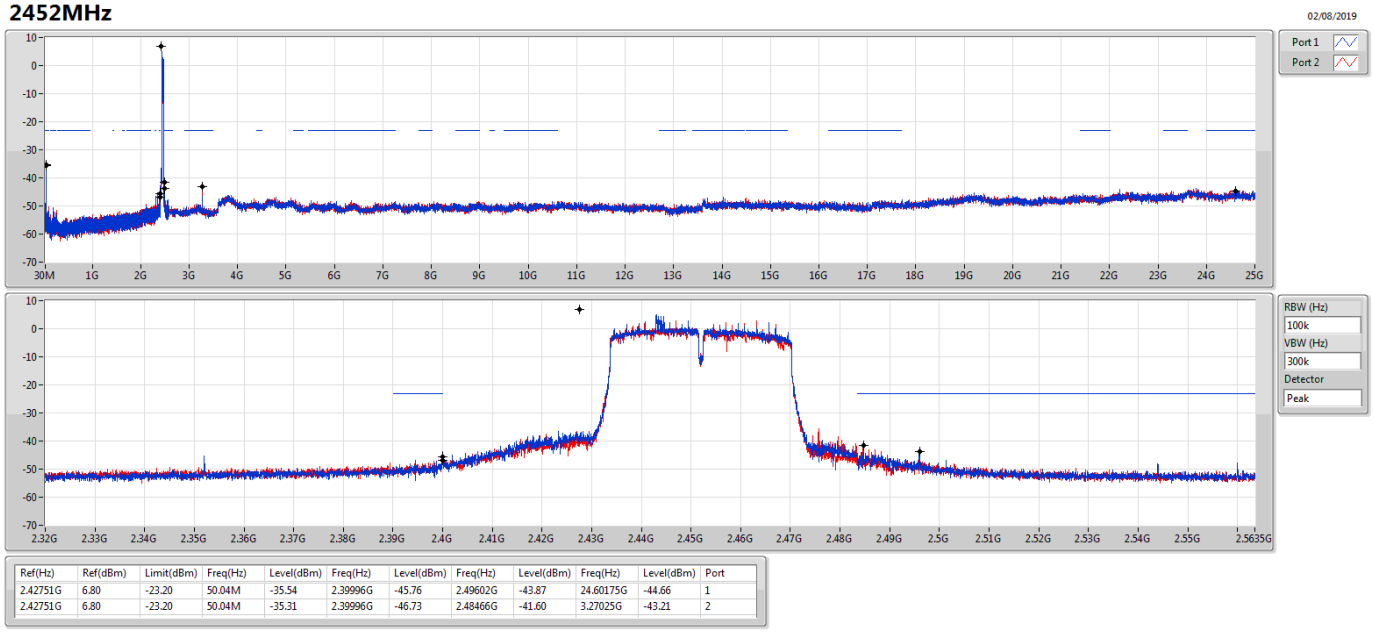
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42751G	6.80	-23.20	50.04M	-34.77	2.39976G	-35.23	2.4857G	-42.10	24.02121G	-44.28	1
2.42751G	6.80	-23.20	50.04M	-34.60	2.39984G	-34.45	2.4857G	-42.82	3.25062G	-43.11	2

VHT40-BF_Nss1,(MCS0)_2TX **CSE NdB**

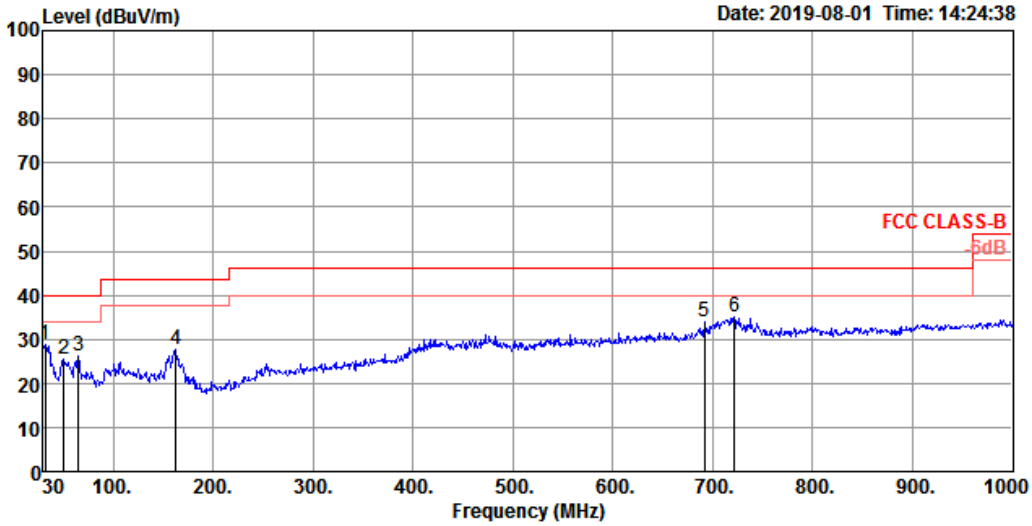
2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.42751G	6.80	-23.20	50.04M	-35.54	2.39996G	-45.76	2.49602G	-43.87	24.60175G	-44.66	1
2.42751G	6.80	-23.20	50.04M	-35.31	2.39996G	-46.73	2.48466G	-41.60	3.27025G	-43.21	2

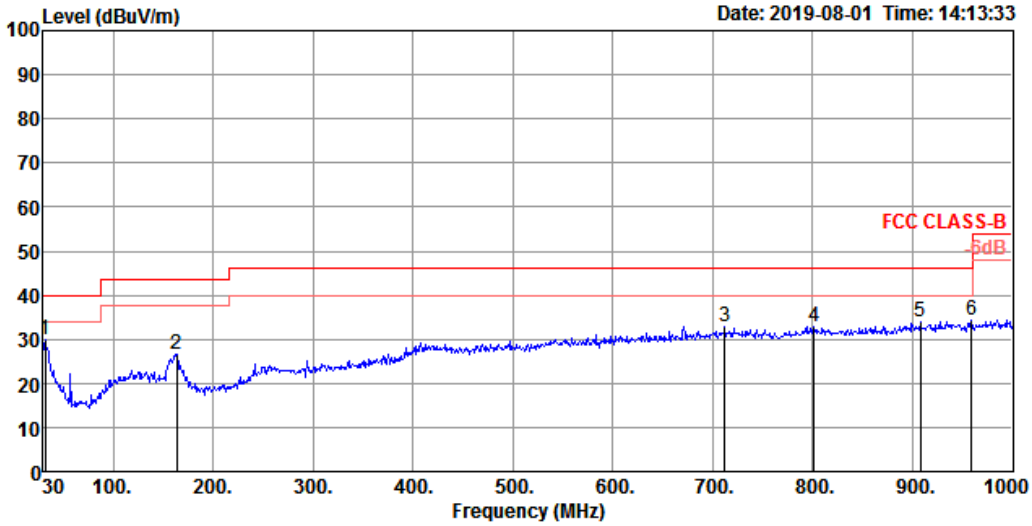
Test Mode	Mode 1	Frequency Range	30 MHz to 1,000 MHz

Vertical 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	31.94	28.64	40.00	-11.36	37.39	0.52	22.93	32.20	100	201	Peak	VERTICAL
2	50.37	25.49	40.00	-14.51	43.44	0.73	13.50	32.18	125	351	Peak	VERTICAL
3	64.92	26.16	40.00	-13.84	45.45	0.83	12.03	32.15	100	178	Peak	VERTICAL
4	162.89	27.65	43.50	-15.85	42.49	1.31	15.95	32.10	100	46	Peak	VERTICAL
5	691.54	33.82	46.00	-12.18	37.73	2.83	25.18	31.92	100	166	Peak	VERTICAL
6	721.61	34.88	46.00	-11.12	38.52	2.88	25.46	31.98	100	107	Peak	VERTICAL

Horizontal 30 MHz to 1,000 MHz



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	31.94	30.05	40.00	-9.95	38.80	0.52	22.93	32.20	200	317	Peak	HORIZONTAL
2	163.86	26.49	43.50	-17.01	41.36	1.31	15.91	32.09	150	168	Peak	HORIZONTAL
3	711.91	32.73	46.00	-13.27	36.49	2.87	25.31	31.94	200	360	Peak	HORIZONTAL
4	801.15	33.00	46.00	-13.00	35.34	3.08	26.23	31.65	100	4	Peak	HORIZONTAL
5	907.85	34.01	46.00	-11.99	35.34	3.12	26.71	31.16	200	85	Peak	HORIZONTAL
6	959.26	34.23	46.00	-11.77	34.92	3.28	26.70	30.67	200	5	Peak	HORIZONTAL

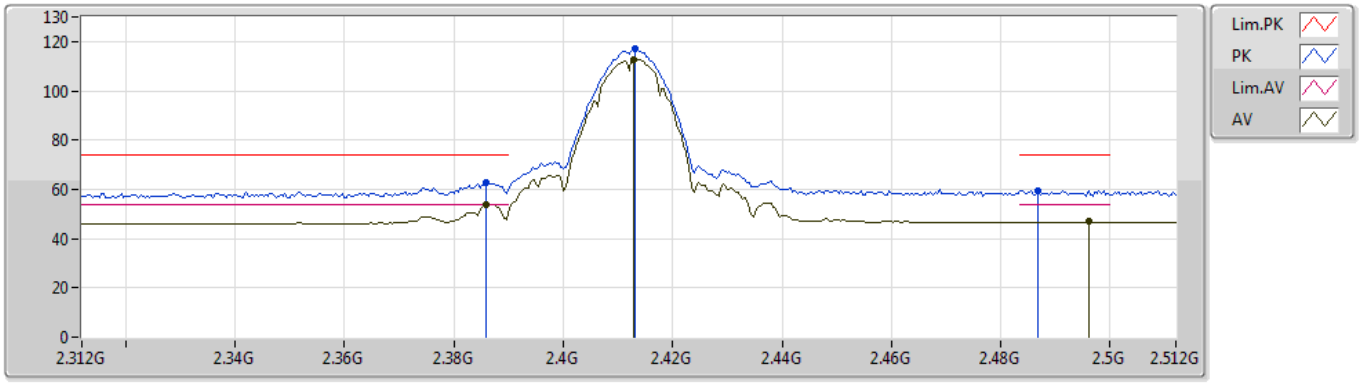
Summary

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	-	-	-	-	-	-	-	-	-	-	-	-
VHT20_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	53.95	54.00	-0.05	31.39	3	Horizontal	206	1.36	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

06/08/2019



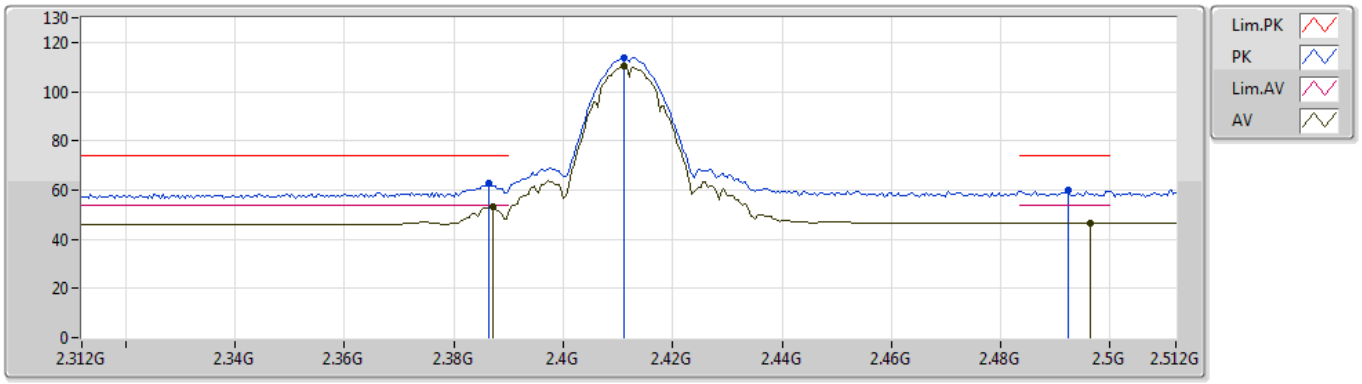
EUT Y_2TX
Setting 22
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.386G	62.50	74.00	-11.50	31.19	3	Vertical	233	1.26	-	31.31
AV	2.386G	53.92	54.00	-0.08	31.19	3	Vertical	233	1.26	-	22.73
PK	2.4132G	116.92	Inf	-Inf	31.26	3	Vertical	233	1.26	-	85.66
AV	2.4128G	112.89	Inf	-Inf	31.26	3	Vertical	233	1.26	-	81.63
PK	2.4868G	59.38	74.00	-14.62	31.40	3	Vertical	233	1.26	-	27.98
AV	2.496G	46.99	54.00	-7.01	31.42	3	Vertical	233	1.26	-	15.57

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

06/08/2019



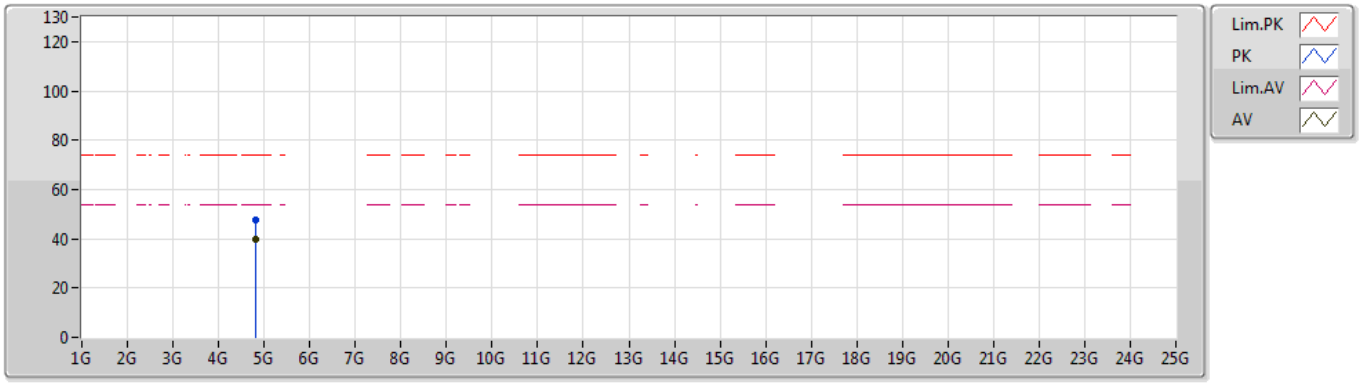
EUT Y_2TX
Setting 22
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3864G	62.51	74.00	-11.49	31.20	3	Horizontal	142	1.02	-	31.31
AV	2.3872G	53.06	54.00	-0.94	31.20	3	Horizontal	142	1.02	-	21.86
PK	2.4112G	113.95	Inf	-Inf	31.25	3	Horizontal	142	1.02	-	82.70
AV	2.4112G	110.21	Inf	-Inf	31.25	3	Horizontal	142	1.02	-	78.96
PK	2.4924G	59.77	74.00	-14.23	31.42	3	Horizontal	142	1.02	-	28.35
AV	2.4964G	46.70	54.00	-7.30	31.42	3	Horizontal	142	1.02	-	15.28

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

06/08/2019



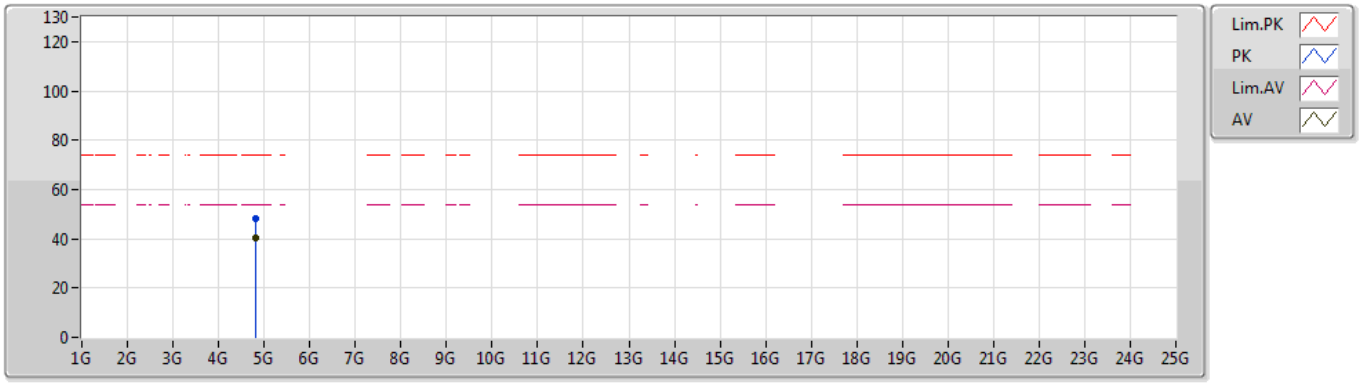
EUT Y_2TX
Setting 22
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.82364G	47.74	74.00	-26.26	7.16	3	Vertical	110	1.32	-	40.58
AV	4.82397G	39.76	54.00	-14.24	7.17	3	Vertical	110	1.32	-	32.59

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

06/08/2019



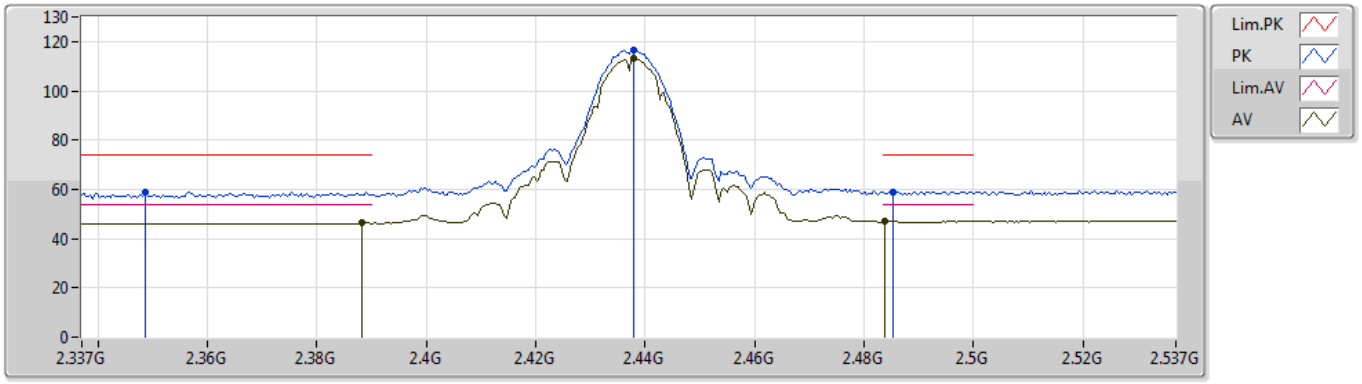
EUT Y_2TX
Setting 22
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.82415G	48.36	74.00	-25.64	7.17	3	Horizontal	145	1.24	-	41.19
AV	4.82397G	40.59	54.00	-13.41	7.17	3	Horizontal	145	1.24	-	33.42

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

06/08/2019



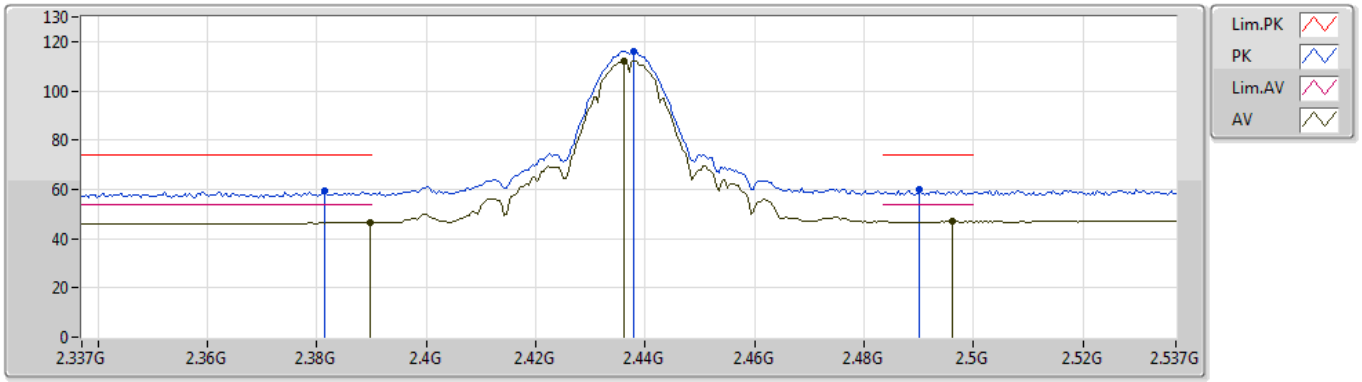
EUT Y_2TX
Setting 23
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3486G	59.07	74.00	-14.93	31.10	3	Vertical	21	1.37	-	27.97
AV	2.3882G	46.27	54.00	-7.73	31.20	3	Vertical	21	1.37	-	15.07
PK	2.4378G	116.78	Inf	-Inf	31.31	3	Vertical	21	1.37	-	85.47
AV	2.4378G	112.94	Inf	-Inf	31.31	3	Vertical	21	1.37	-	81.63
PK	2.4854G	59.08	74.00	-14.92	31.40	3	Vertical	21	1.37	-	27.68
AV	2.4838G	47.01	54.00	-6.99	31.39	3	Vertical	21	1.37	-	15.62

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

06/08/2019



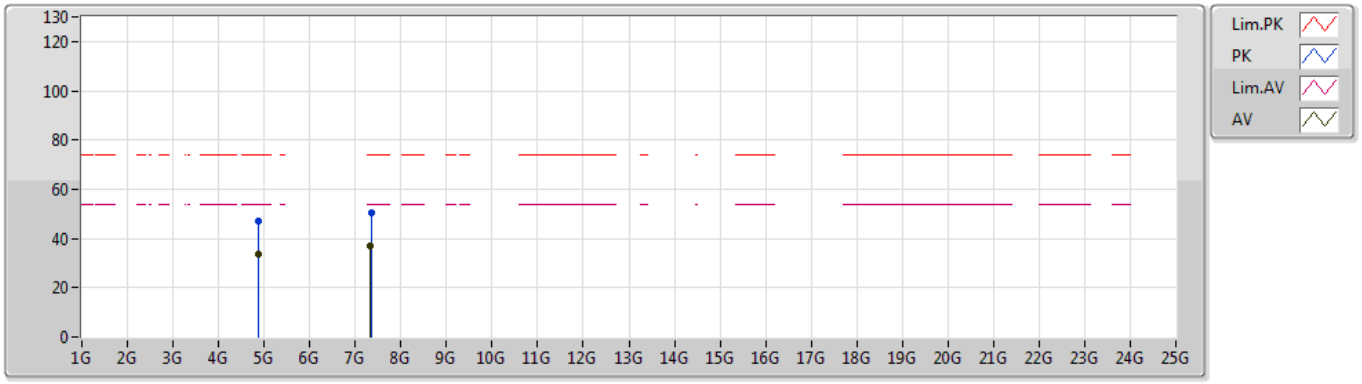
EUT Y_2TX
Setting 23
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3814G	59.23	74.00	-14.77	31.19	3	Horizontal	127	1.02	-	28.04
AV	2.3898G	46.42	54.00	-7.58	31.20	3	Horizontal	127	1.02	-	15.22
PK	2.4378G	116.07	Inf	-Inf	31.31	3	Horizontal	127	1.02	-	84.76
AV	2.4362G	112.34	Inf	-Inf	31.30	3	Horizontal	127	1.02	-	81.04
PK	2.4902G	59.94	74.00	-14.06	31.41	3	Horizontal	127	1.02	-	28.53
AV	2.4962G	47.03	54.00	-6.97	31.42	3	Horizontal	127	1.02	-	15.61

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

06/08/2019



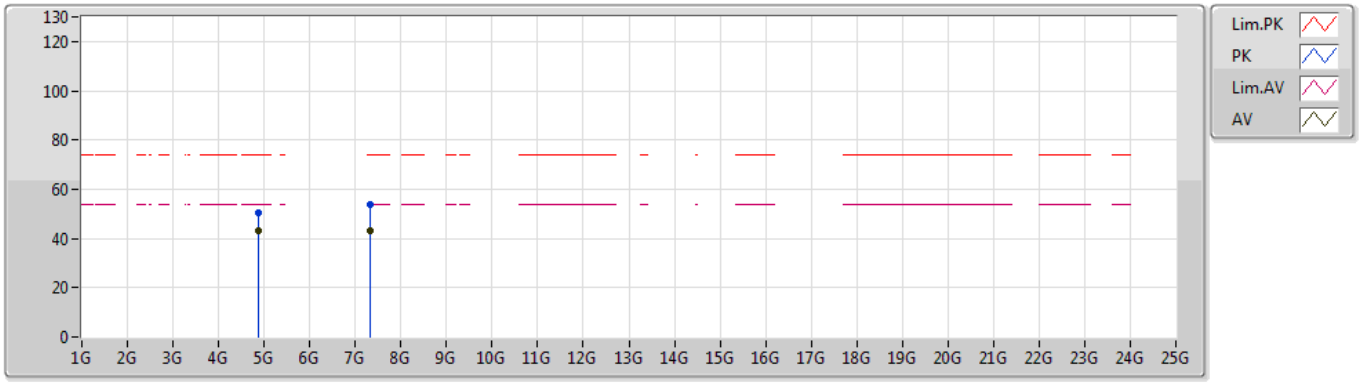
EUT Y_2TX
Setting 23
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.874G	47.18	74.00	-26.82	4.80	3	Vertical	51	1.39	-	42.38
AV	4.874G	33.80	54.00	-20.20	4.80	3	Vertical	51	1.39	-	29.00
PK	7.3458G	50.53	74.00	-23.47	9.07	3	Vertical	292	2.41	-	41.46
AV	7.3208G	37.15	54.00	-16.85	9.01	3	Vertical	292	2.41	-	28.14

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

06/08/2019



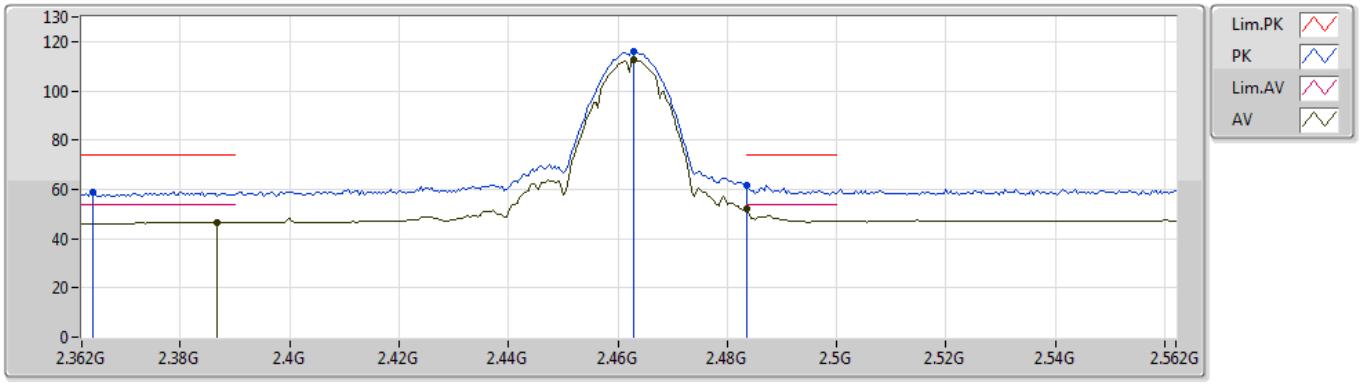
EUT Y_2TX
Setting 23
03-C-5
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87402G	50.52	74.00	-23.48	4.80	3	Horizontal	136	1.00	-	45.72
AV	4.87394G	42.89	54.00	-11.11	4.80	3	Horizontal	136	1.00	-	38.09
PK	7.31344G	53.53	74.00	-20.47	8.99	3	Horizontal	341	1.97	-	44.54
AV	7.31274G	42.95	54.00	-11.05	8.99	3	Horizontal	341	1.97	-	33.96

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

06/08/2019



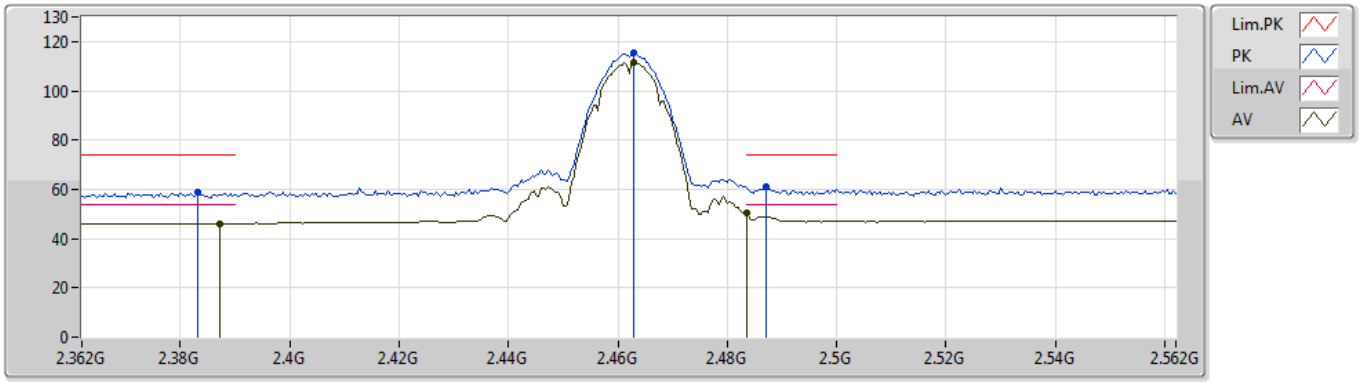
EUT Y_2TX
Setting 21.5
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.364G	58.88	74.00	-15.12	31.14	3	Vertical	267	1.10	-	27.74
AV	2.3868G	46.53	54.00	-7.47	31.20	3	Vertical	267	1.10	-	15.33
PK	2.4628G	116.23	Inf	-Inf	31.36	3	Vertical	267	1.10	-	84.87
AV	2.4628G	112.35	Inf	-Inf	31.36	3	Vertical	267	1.10	-	80.99
PK	2.4835G	61.55	74.00	-12.45	31.39	3	Vertical	267	1.10	-	30.16
AV	2.4835G	51.84	54.00	-2.16	31.39	3	Vertical	267	1.10	-	20.45

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

06/08/2019



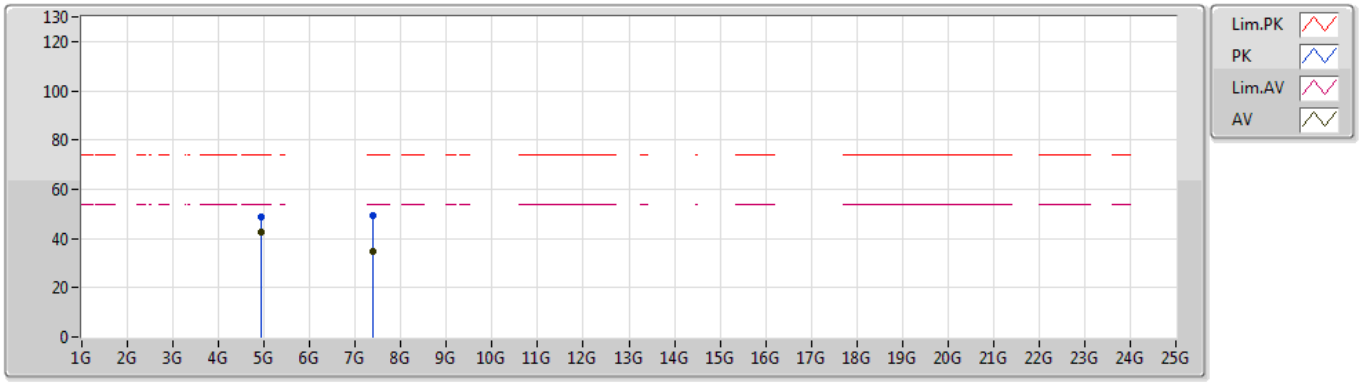
EUT Y_2TX
Setting 21.5
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3832G	58.77	74.00	-15.23	31.19	3	Horizontal	177	1.74	-	27.58
AV	2.3872G	46.17	54.00	-7.83	31.20	3	Horizontal	177	1.74	-	14.97
PK	2.4628G	115.38	Inf	-Inf	31.36	3	Horizontal	177	1.74	-	84.02
AV	2.4628G	111.50	Inf	-Inf	31.36	3	Horizontal	177	1.74	-	80.14
PK	2.4872G	60.84	74.00	-13.16	31.40	3	Horizontal	177	1.74	-	29.44
AV	2.4835G	50.27	54.00	-3.73	31.39	3	Horizontal	177	1.74	-	18.88

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

06/08/2019



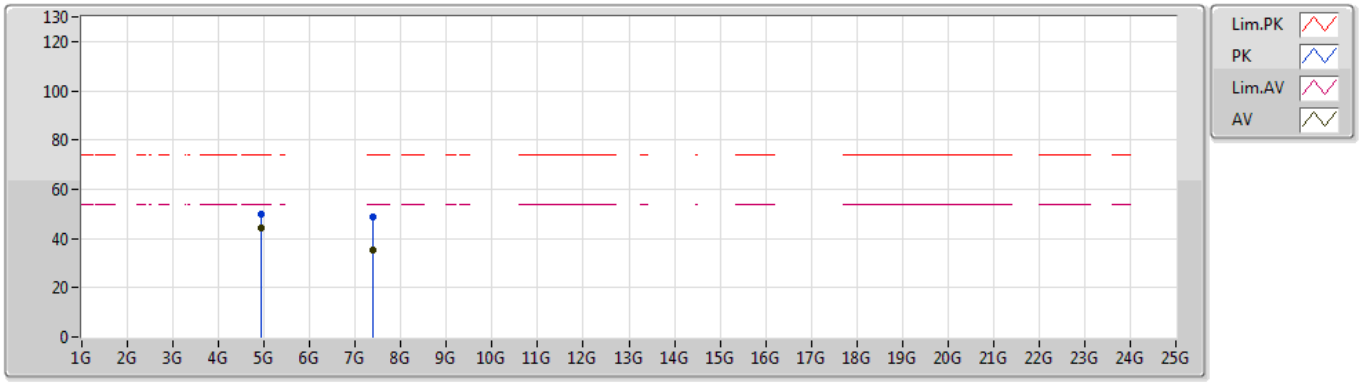
EUT Y_2TX
Setting 21.5
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92397G	48.94	74.00	-25.06	7.40	3	Vertical	281	1.11	-	41.54
AV	4.92395G	42.58	54.00	-11.42	7.40	3	Vertical	281	1.11	-	35.18
PK	7.3833G	49.45	74.00	-24.55	10.75	3	Vertical	361	1.50	-	38.70
AV	7.38152G	34.78	54.00	-19.22	10.75	3	Vertical	361	1.50	-	24.03

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

06/08/2019



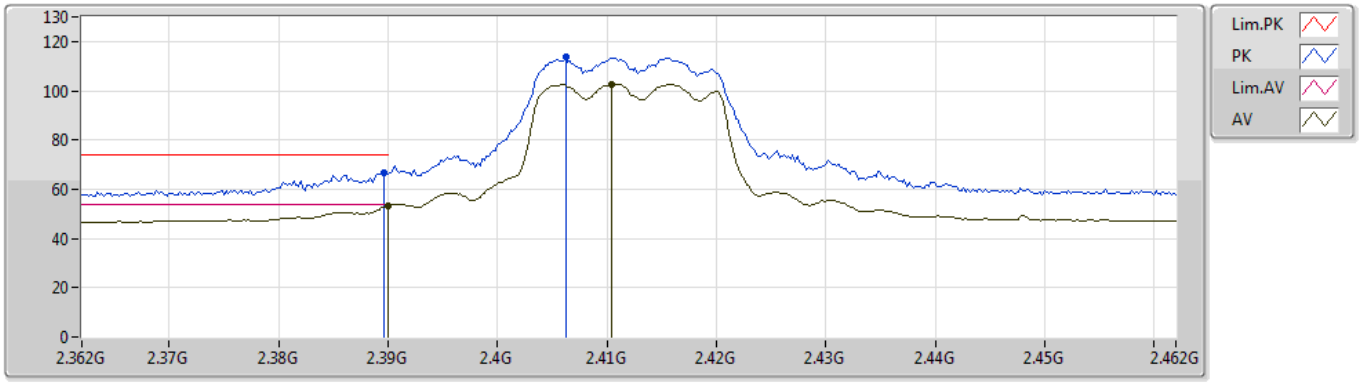
EUT Y_2TX
Setting 21.5
02-P-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92402G	49.80	74.00	-24.20	7.40	3	Horizontal	271	1.09	-	42.40
AV	4.924G	44.26	54.00	-9.74	7.40	3	Horizontal	271	1.09	-	36.86
PK	7.38318G	48.88	74.00	-25.12	10.75	3	Horizontal	297	2.12	-	38.13
AV	7.38432G	35.52	54.00	-18.48	10.76	3	Horizontal	297	2.12	-	24.76

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

06/08/2019



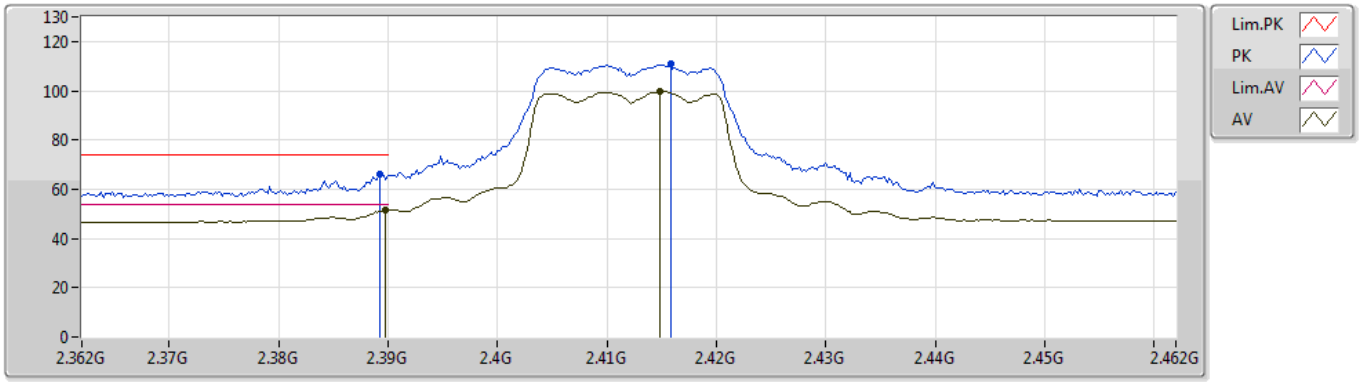
EUT Y_2TX
Setting 16.5
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	66.81	74.00	-7.19	31.20	3	Vertical	257	1.27	-	35.61
AV	2.39G	53.36	54.00	-0.64	31.20	3	Vertical	257	1.27	-	22.16
PK	2.4062G	113.50	Inf	-Inf	31.24	3	Vertical	257	1.27	-	82.26
AV	2.4104G	102.74	Inf	-Inf	31.25	3	Vertical	257	1.27	-	71.49

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

06/08/2019



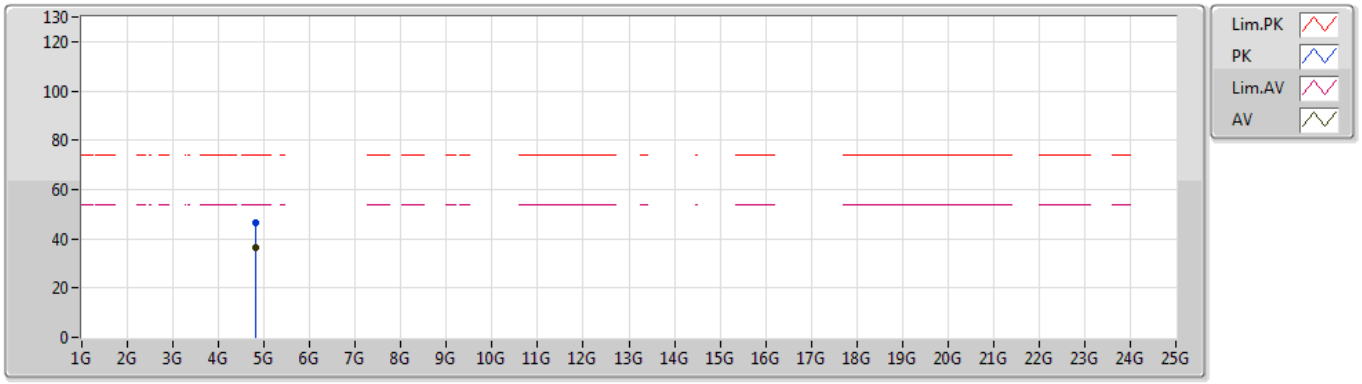
EUT Y_2TX
Setting 16.5
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3892G	65.96	74.00	-8.04	31.20	3	Horizontal	185	1.41	-	34.76
AV	2.3898G	51.64	54.00	-2.36	31.20	3	Horizontal	185	1.41	-	20.44
PK	2.4158G	110.87	Inf	-Inf	31.27	3	Horizontal	185	1.41	-	79.60
AV	2.4148G	99.83	Inf	-Inf	31.26	3	Horizontal	185	1.41	-	68.57

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

06/08/2019



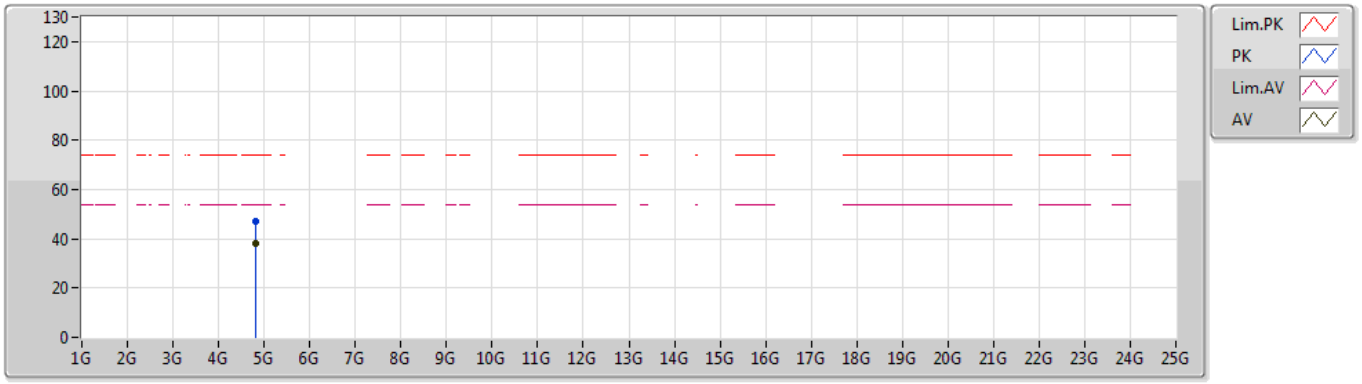
EUT Y_2TX
Setting 16.5
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.824G	46.73	74.00	-27.27	7.17	3	Vertical	169	2.22	-	39.56
AV	4.824G	36.23	54.00	-17.77	7.17	3	Vertical	169	2.22	-	29.06

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

06/08/2019



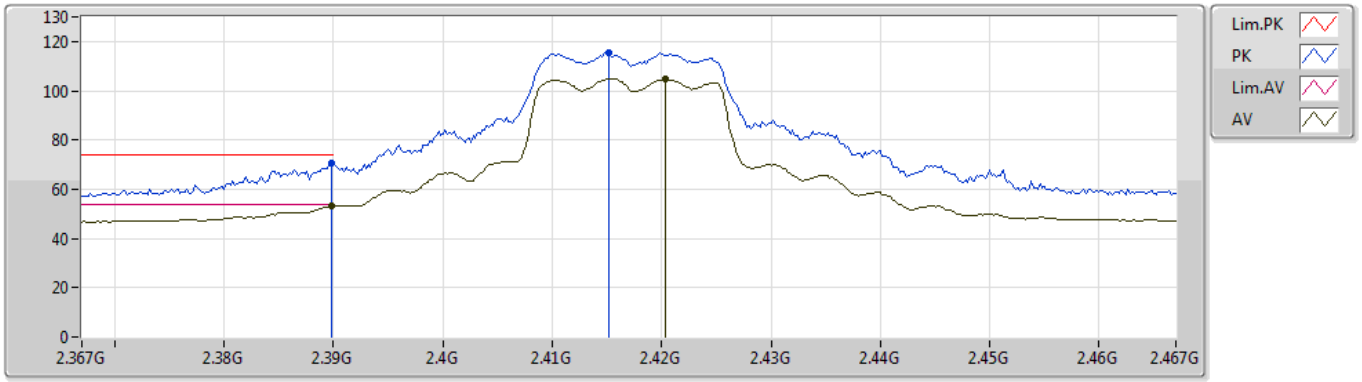
EUT Y_2TX
Setting 16.5
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.82398G	47.03	74.00	-26.97	7.17	3	Horizontal	192	2.60	-	39.86
AV	4.82408G	37.98	54.00	-16.02	7.17	3	Horizontal	192	2.60	-	30.81

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

06/08/2019



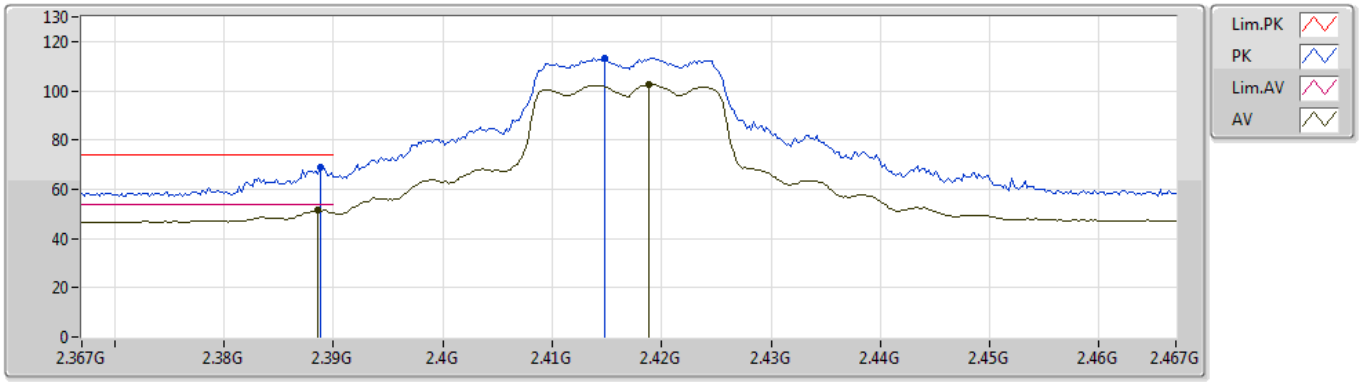
EUT Y_2TX
Setting 19
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	70.84	74.00	-3.16	31.20	3	Vertical	252	1.24	-	39.64
AV	2.3898G	53.14	54.00	-0.86	31.20	3	Vertical	252	1.24	-	21.94
PK	2.4152G	115.56	Inf	-Inf	31.26	3	Vertical	252	1.24	-	84.30
AV	2.4204G	104.67	Inf	-Inf	31.27	3	Vertical	252	1.24	-	73.40

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

06/08/2019



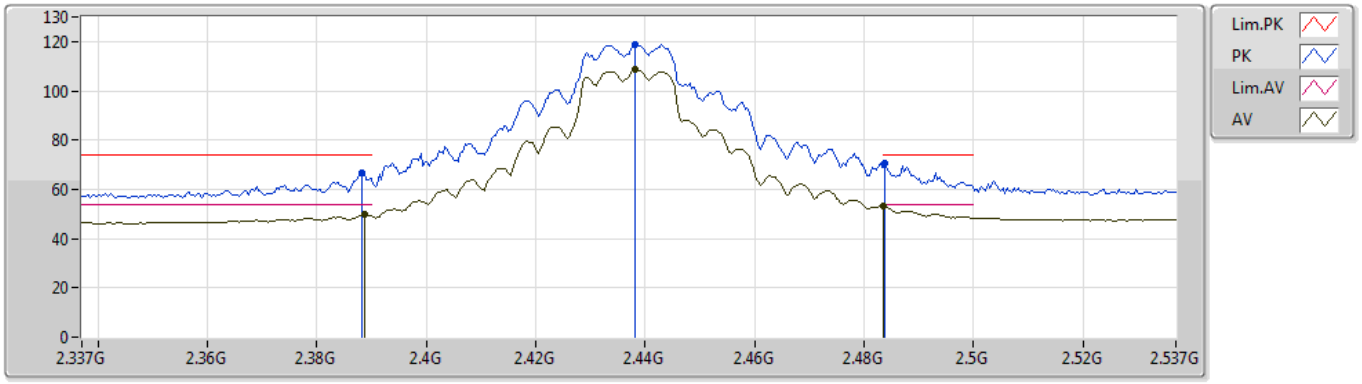
EUT Y_2TX
Setting 19
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3888G	68.74	74.00	-5.26	31.20	3	Horizontal	158	1.08	-	37.54
AV	2.3886G	51.58	54.00	-2.42	31.20	3	Horizontal	158	1.08	-	20.38
PK	2.4148G	113.08	Inf	-Inf	31.26	3	Horizontal	158	1.08	-	81.82
AV	2.4188G	102.38	Inf	-Inf	31.27	3	Horizontal	158	1.08	-	71.11

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

06/08/2019



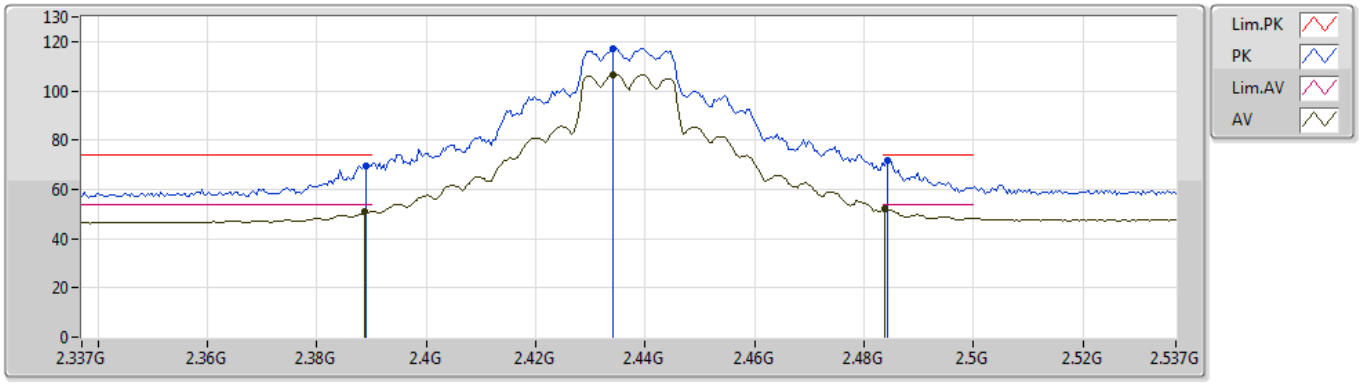
EUT Y_2TX
Setting 23
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3882G	66.80	74.00	-7.20	31.20	3	Vertical	22	1.21	-	35.60
AV	2.3886G	49.65	54.00	-4.35	31.20	3	Vertical	22	1.21	-	18.45
PK	2.4382G	118.79	Inf	-Inf	31.31	3	Vertical	22	1.21	-	87.48
AV	2.4382G	108.46	Inf	-Inf	31.31	3	Vertical	22	1.21	-	77.15
PK	2.4838G	70.82	74.00	-3.18	31.39	3	Vertical	22	1.21	-	39.43
AV	2.4835G	52.99	54.00	-1.01	31.39	3	Vertical	22	1.21	-	21.60

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

06/08/2019



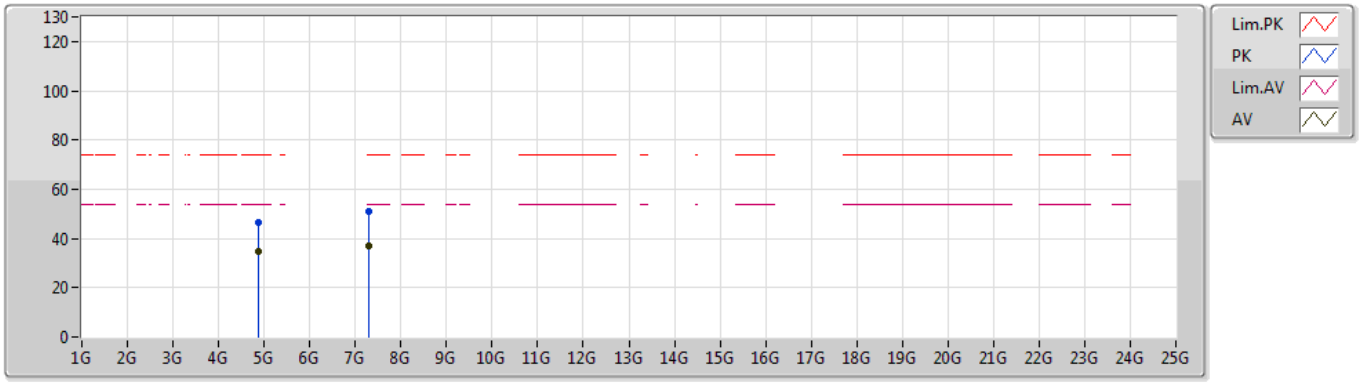
EUT Y_2TX
Setting 23
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	69.66	74.00	-4.34	31.20	3	Horizontal	158	1.00	-	38.46
AV	2.3886G	50.92	54.00	-3.08	31.20	3	Horizontal	158	1.00	-	19.72
PK	2.4342G	117.08	Inf	-Inf	31.29	3	Horizontal	158	1.00	-	85.79
AV	2.4342G	106.74	Inf	-Inf	31.29	3	Horizontal	158	1.00	-	75.45
PK	2.4842G	71.65	74.00	-2.35	31.39	3	Horizontal	158	1.00	-	40.26
AV	2.4838G	51.86	54.00	-2.14	31.39	3	Horizontal	158	1.00	-	20.47

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

06/08/2019



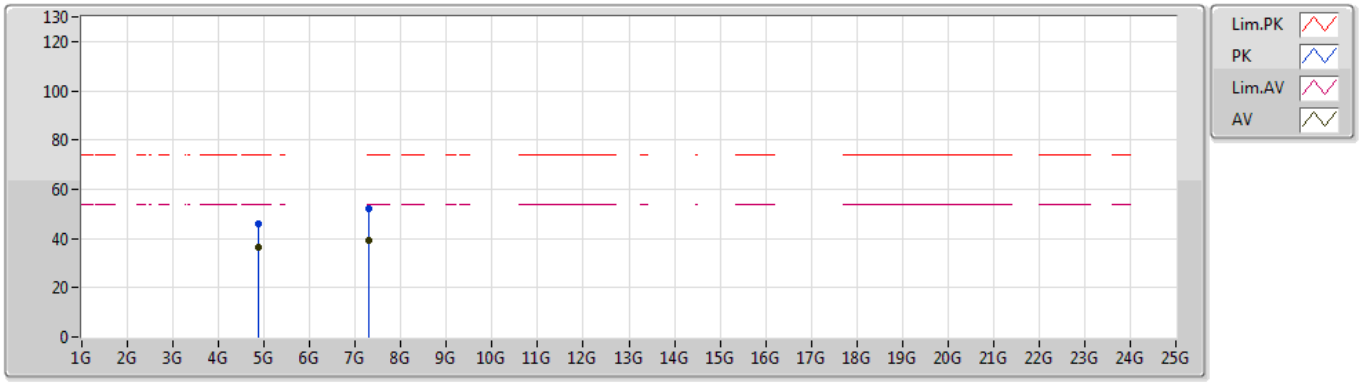
EUT Y_2TX
Setting 23
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87386G	46.46	74.00	-27.54	7.28	3	Vertical	160	2.28	-	39.18
AV	4.87398G	34.78	54.00	-19.22	7.28	3	Vertical	160	2.28	-	27.50
PK	7.308G	50.91	74.00	-23.09	10.55	3	Vertical	163	2.26	-	40.36
AV	7.30884G	36.94	54.00	-17.06	10.54	3	Vertical	163	2.26	-	26.40

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

06/08/2019



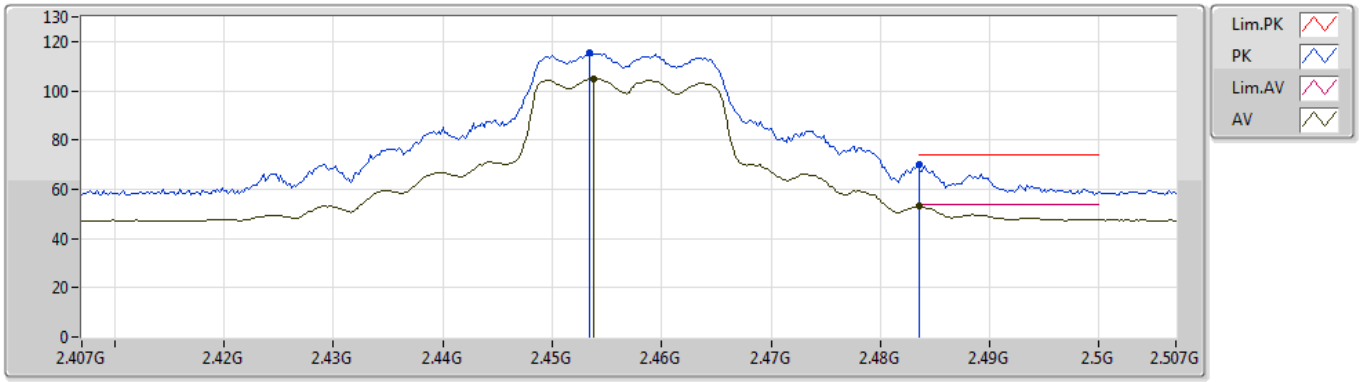
EUT Y_2TX
Setting 23
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87402G	45.93	74.00	-28.07	7.28	3	Horizontal	129	2.99	-	38.65
AV	4.87394G	36.55	54.00	-17.45	7.28	3	Horizontal	129	2.99	-	29.27
PK	7.3077G	52.39	74.00	-21.61	10.55	3	Horizontal	146	2.26	-	41.84
AV	7.308G	39.10	54.00	-14.90	10.55	3	Horizontal	146	2.26	-	28.55

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

06/08/2019



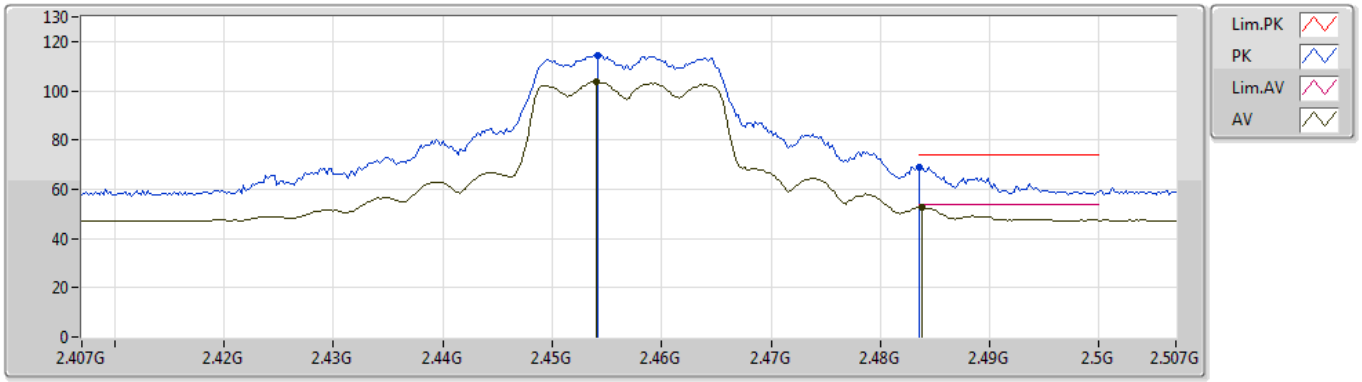
EUT Y_2TX
Setting 19
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4534G	115.66	Inf	-Inf	31.34	3	Vertical	219	1.15	-	84.32
AV	2.4538G	105.05	Inf	-Inf	31.34	3	Vertical	219	1.15	-	73.71
PK	2.4835G	69.99	74.00	-4.01	31.39	3	Vertical	219	1.15	-	38.60
AV	2.4836G	53.04	54.00	-0.96	31.39	3	Vertical	219	1.15	-	21.65

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

06/08/2019



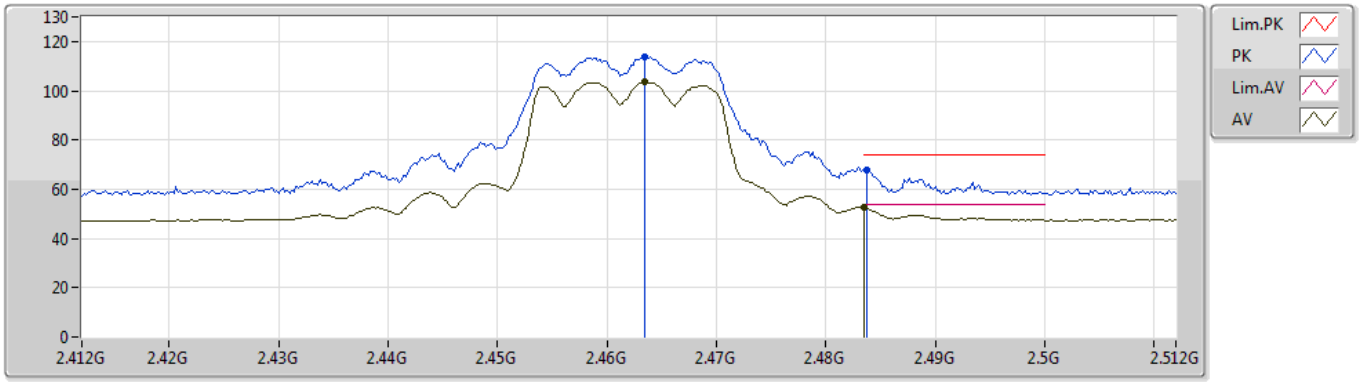
EUT Y_2TX
Setting 19
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4542G	114.51	Inf	-Inf	31.34	3	Horizontal	155	1.17	-	83.17
AV	2.454G	103.68	Inf	-Inf	31.34	3	Horizontal	155	1.17	-	72.34
PK	2.4836G	69.02	74.00	-4.98	31.39	3	Horizontal	155	1.17	-	37.63
AV	2.4838G	52.53	54.00	-1.47	31.39	3	Horizontal	155	1.17	-	21.14

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

06/08/2019



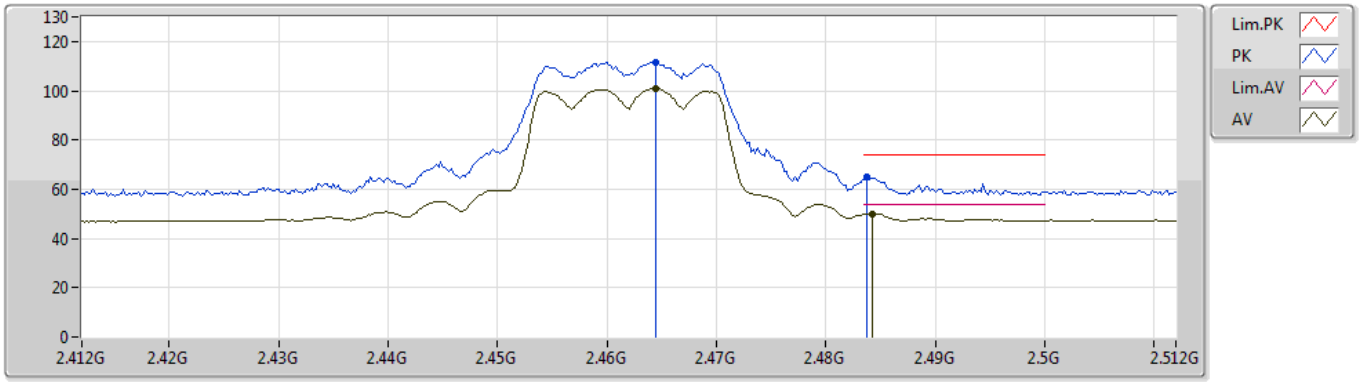
EUT Y_2TX
Setting 17
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4634G	113.75	Inf	-Inf	31.36	3	Vertical	2	3.00	-	82.39
AV	2.4634G	103.41	Inf	-Inf	31.36	3	Vertical	2	3.00	-	72.05
PK	2.4838G	67.63	74.00	-6.37	31.39	3	Vertical	2	3.00	-	36.24
AV	2.4835G	52.72	54.00	-1.28	31.39	3	Vertical	2	3.00	-	21.33

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

06/08/2019



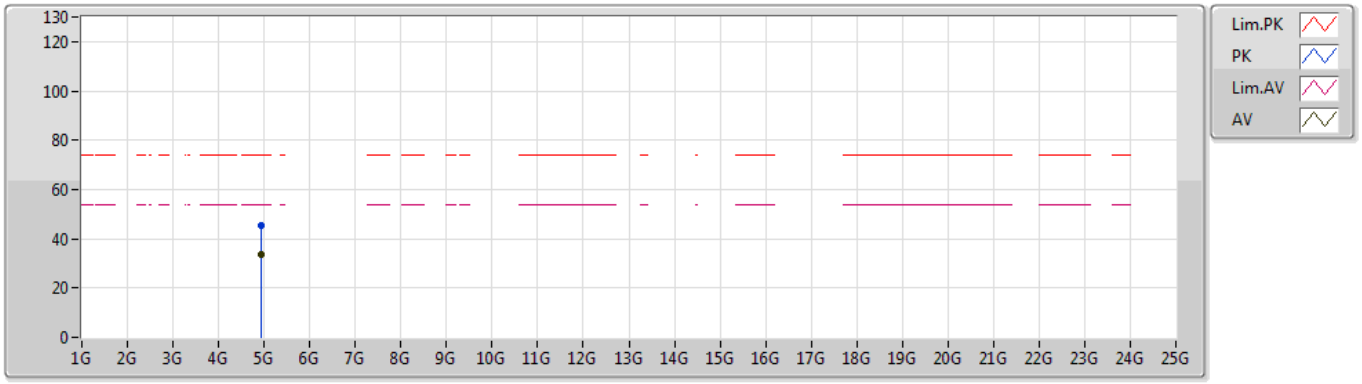
EUT Y_2TX
Setting 17
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4644G	111.42	Inf	-Inf	31.36	3	Horizontal	157	1.74	-	80.06
AV	2.4644G	101.09	Inf	-Inf	31.36	3	Horizontal	157	1.74	-	69.73
PK	2.4838G	65.17	74.00	-8.83	31.39	3	Horizontal	157	1.74	-	33.78
AV	2.4842G	50.12	54.00	-3.88	31.39	3	Horizontal	157	1.74	-	18.73

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

06/08/2019



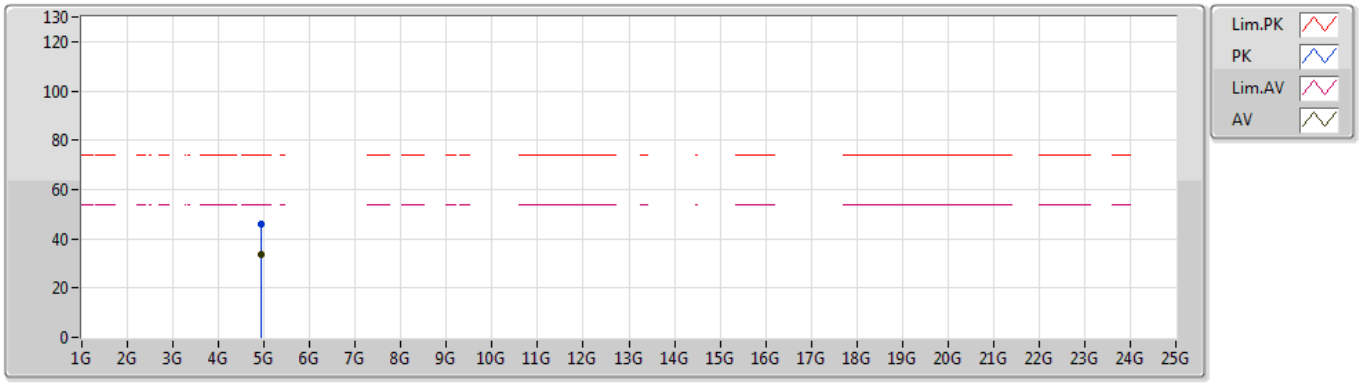
EUT Y_2TX
Setting 17
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.924G	45.15	74.00	-28.85	7.40	3	Vertical	137	1.07	-	37.75
AV	4.92392G	33.68	54.00	-20.32	7.40	3	Vertical	137	1.07	-	26.28

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

06/08/2019



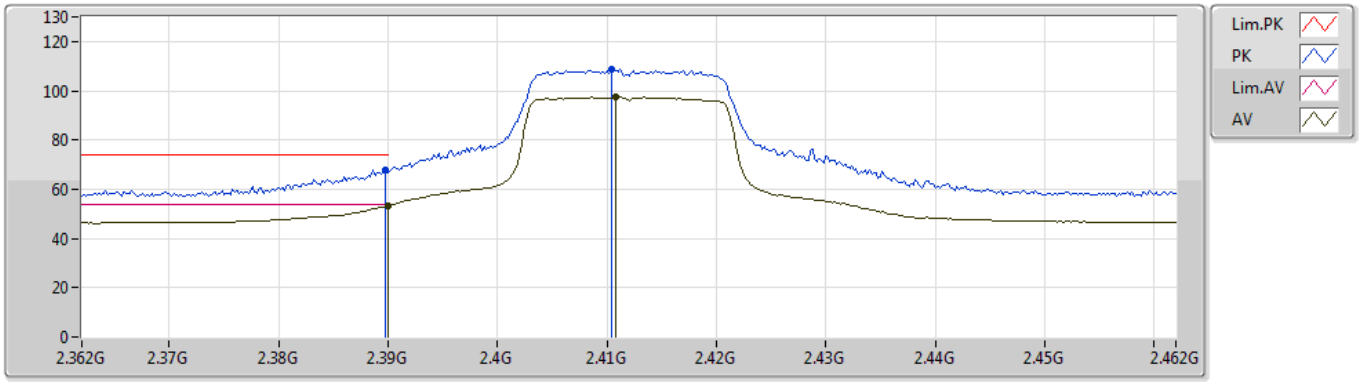
EUT Y_2TX
Setting 17
02-B-4
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92362G	46.08	74.00	-27.92	7.39	3	Horizontal	184	2.50	-	38.69
AV	4.92384G	33.71	54.00	-20.29	7.40	3	Horizontal	184	2.50	-	26.31

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



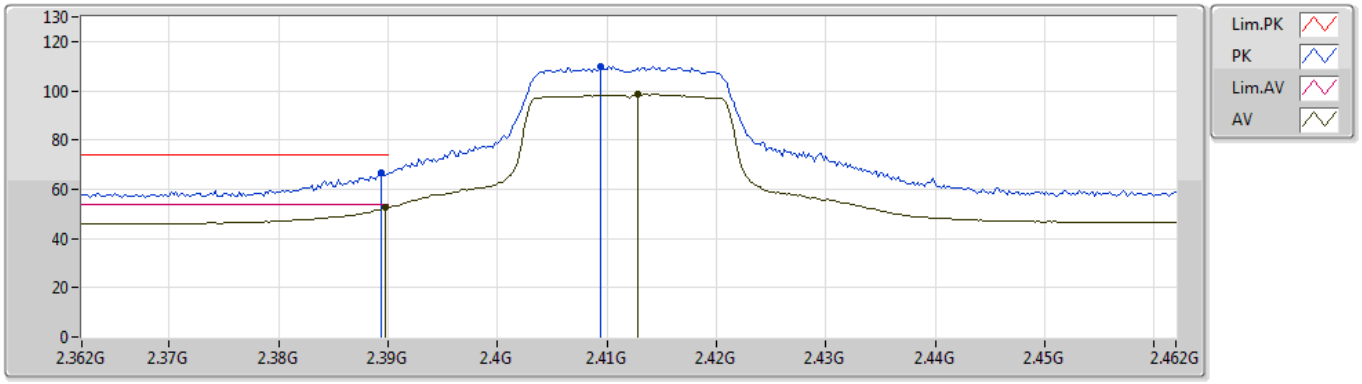
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	67.67	74.00	-6.33	31.20	3	Vertical	122	2.20	-	36.47
AV	2.39G	53.51	54.00	-0.49	31.20	3	Vertical	122	2.20	-	22.31
PK	2.4104G	108.43	Inf	-Inf	31.25	3	Vertical	122	2.20	-	77.18
AV	2.4108G	97.31	Inf	-Inf	31.25	3	Vertical	122	2.20	-	66.06

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



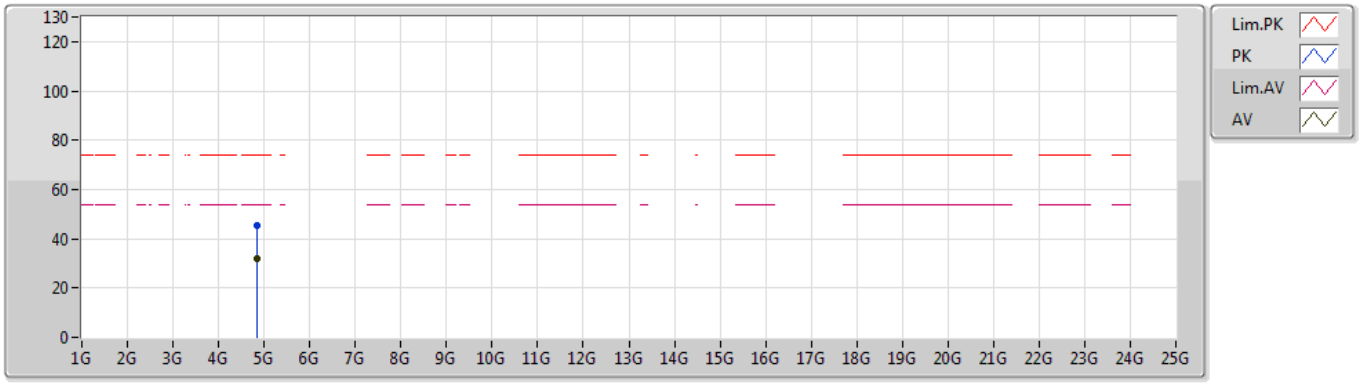
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3894G	66.41	74.00	-7.59	31.20	3	Horizontal	301	1.99	-	35.21
AV	2.3898G	52.63	54.00	-1.37	31.20	3	Horizontal	301	1.99	-	21.43
PK	2.4094G	109.89	Inf	-Inf	31.25	3	Horizontal	301	1.99	-	78.64
AV	2.4128G	98.49	Inf	-Inf	31.26	3	Horizontal	301	1.99	-	67.23

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



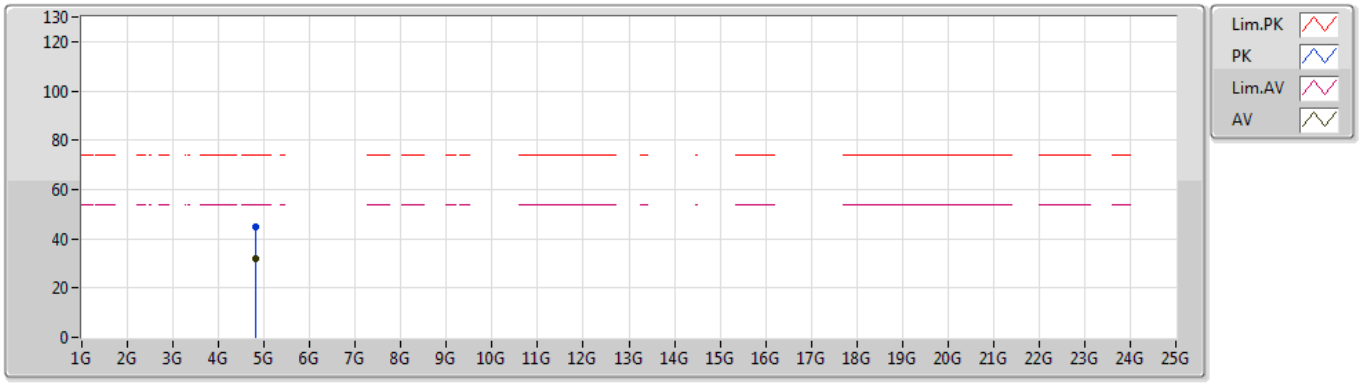
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8372G	45.42	74.00	-28.58	7.20	3	Vertical	31	1.04	-	38.22
AV	4.8364G	31.71	54.00	-22.29	7.20	3	Vertical	31	1.04	-	24.51

VHT20_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



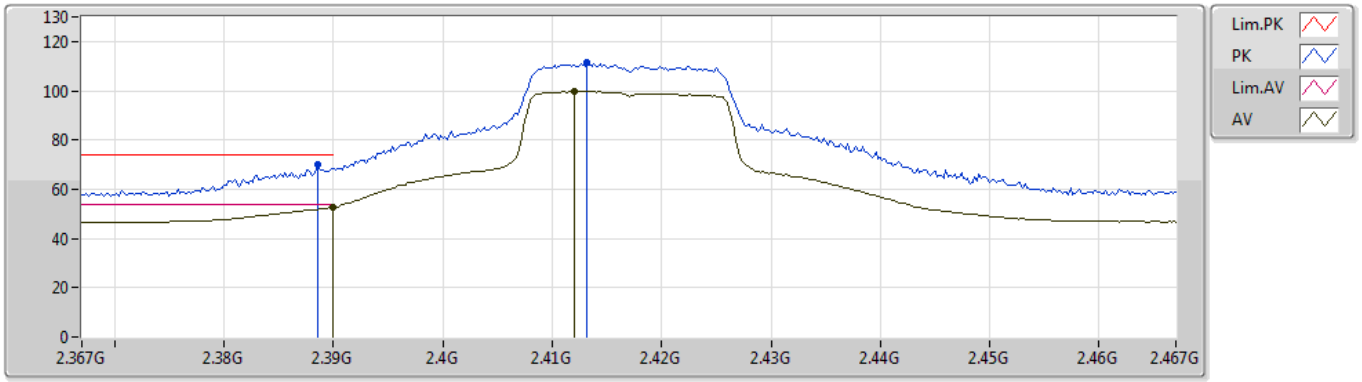
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.823G	45.05	74.00	-28.95	7.16	3	Horizontal	212	1.50	-	37.89
AV	4.8256G	31.71	54.00	-22.29	7.18	3	Horizontal	212	1.50	-	24.53

VHT20_Nss1,(MCS0)_2TX

2417MHz_TX

06/08/2019



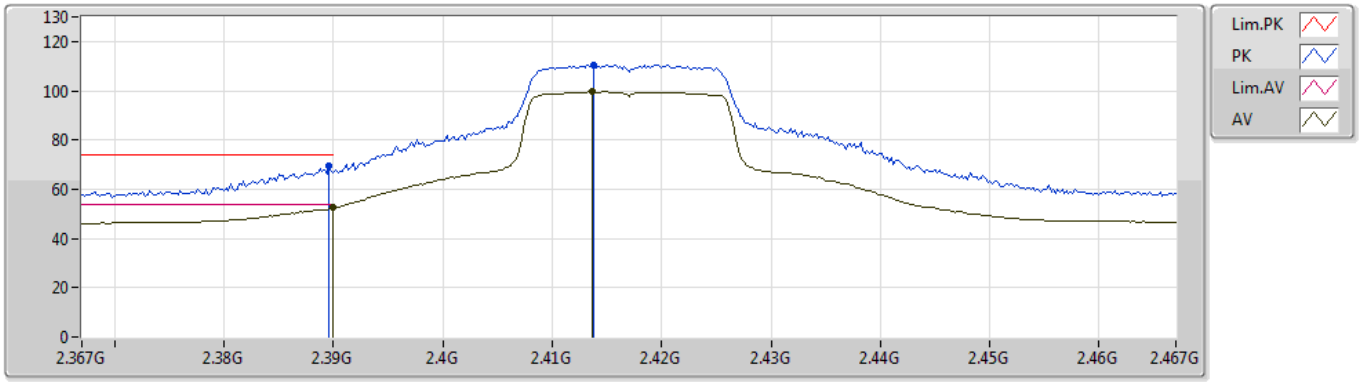
EUT Y_2TX
Setting 20
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3886G	70.16	74.00	-3.84	31.20	3	Vertical	120	2.18	-	38.96
AV	2.39G	52.77	54.00	-1.23	31.20	3	Vertical	120	2.18	-	21.57
PK	2.4132G	111.54	Inf	-Inf	31.26	3	Vertical	120	2.18	-	80.28
AV	2.412G	99.76	Inf	-Inf	31.25	3	Vertical	120	2.18	-	68.51

VHT20_Nss1,(MCS0)_2TX

2417MHz_TX

06/08/2019



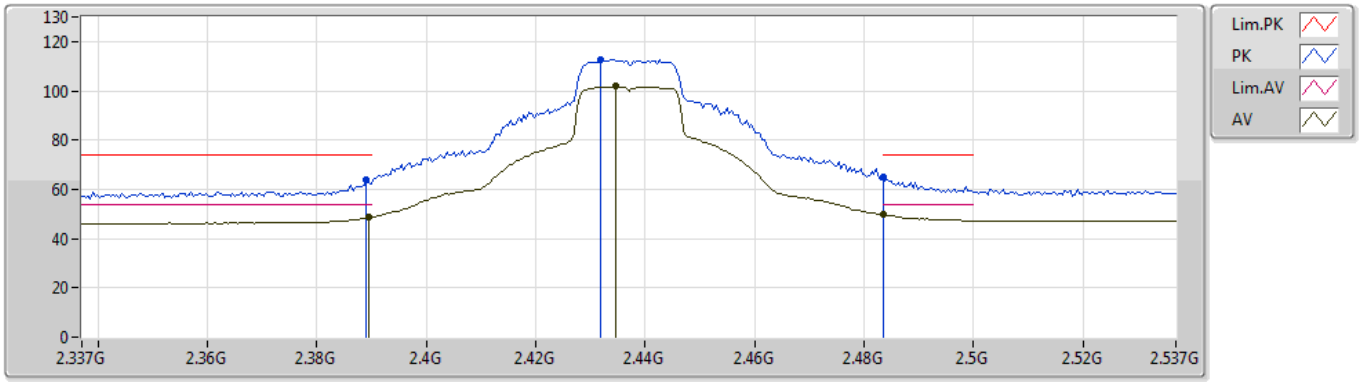
EUT Y_2TX
Setting 20
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	69.22	74.00	-4.78	31.20	3	Horizontal	300	2.24	-	38.02
AV	2.39G	52.50	54.00	-1.50	31.20	3	Horizontal	300	2.24	-	21.30
PK	2.4138G	110.60	Inf	-Inf	31.26	3	Horizontal	300	2.24	-	79.34
AV	2.4136G	99.59	Inf	-Inf	31.26	3	Horizontal	300	2.24	-	68.33

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



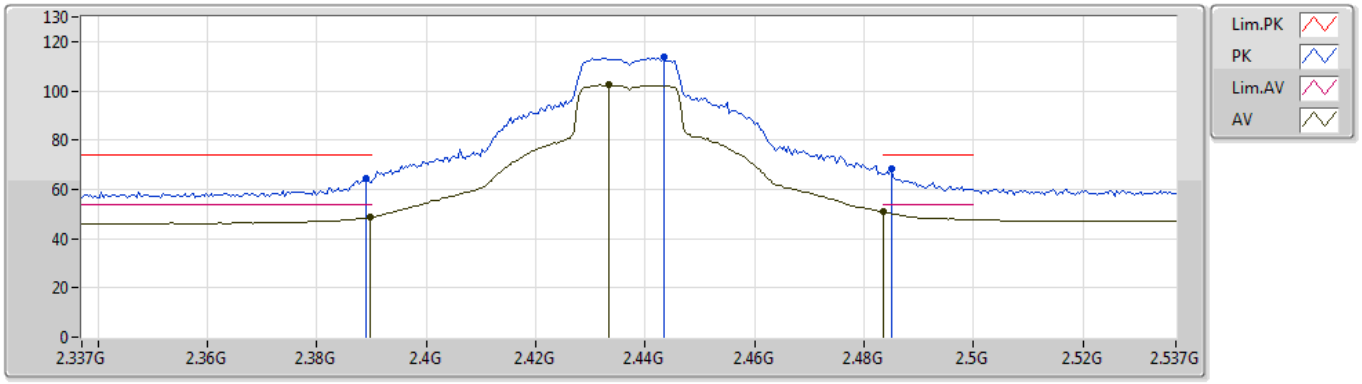
EUT Y_2TX
Setting 23
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	63.75	74.00	-10.25	31.20	3	Vertical	120	2.40	-	32.55
AV	2.3894G	48.55	54.00	-5.45	31.20	3	Vertical	120	2.40	-	17.35
PK	2.4318G	112.70	Inf	-Inf	31.29	3	Vertical	120	2.40	-	81.41
AV	2.4346G	101.82	Inf	-Inf	31.30	3	Vertical	120	2.40	-	70.52
PK	2.4835G	64.88	74.00	-9.12	31.39	3	Vertical	120	2.40	-	33.49
AV	2.4835G	49.60	54.00	-4.40	31.39	3	Vertical	120	2.40	-	18.21

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



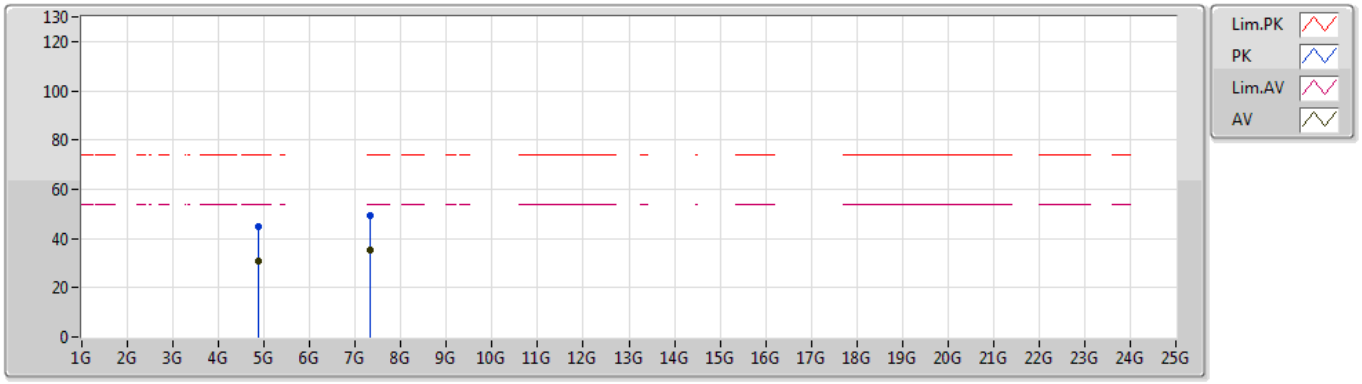
EUT Y_2TX
Setting 23
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	64.19	74.00	-9.81	31.20	3	Horizontal	190	1.50	-	32.99
AV	2.3898G	48.64	54.00	-5.36	31.20	3	Horizontal	190	1.50	-	17.44
PK	2.4434G	113.49	Inf	-Inf	31.32	3	Horizontal	190	1.50	-	82.17
AV	2.4334G	102.31	Inf	-Inf	31.29	3	Horizontal	190	1.50	-	71.02
PK	2.485G	68.39	74.00	-5.61	31.40	3	Horizontal	190	1.50	-	36.99
AV	2.4835G	51.04	54.00	-2.96	31.39	3	Horizontal	190	1.50	-	19.65

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



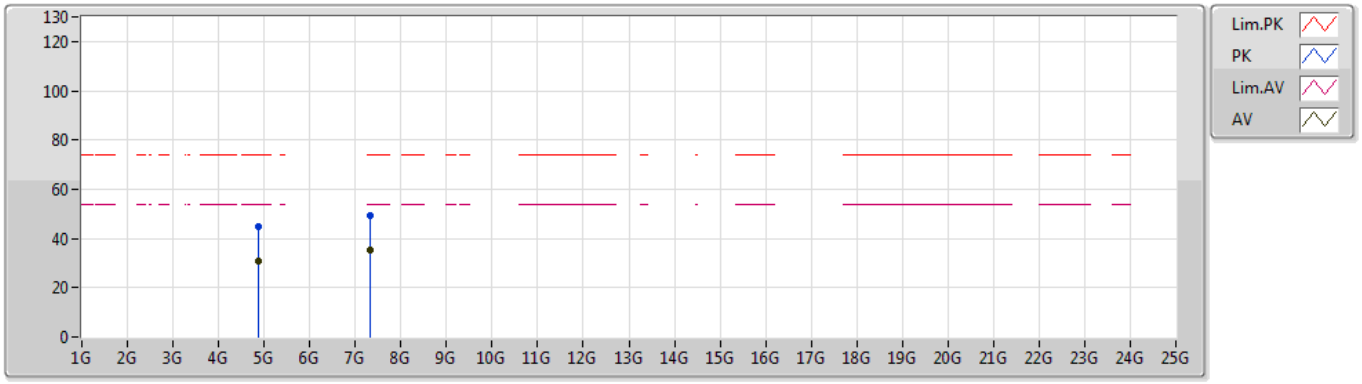
EUT Y_2TX
Setting 23
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.86616G	44.87	74.00	-29.13	7.27	3	Vertical	216	1.73	-	37.60
AV	4.86488G	30.85	54.00	-23.15	7.26	3	Vertical	216	1.73	-	23.59
PK	7.31492G	49.27	74.00	-24.73	10.56	3	Vertical	168	2.35	-	38.71
AV	7.3144G	35.41	54.00	-18.59	10.56	3	Vertical	168	2.35	-	24.85

VHT20_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



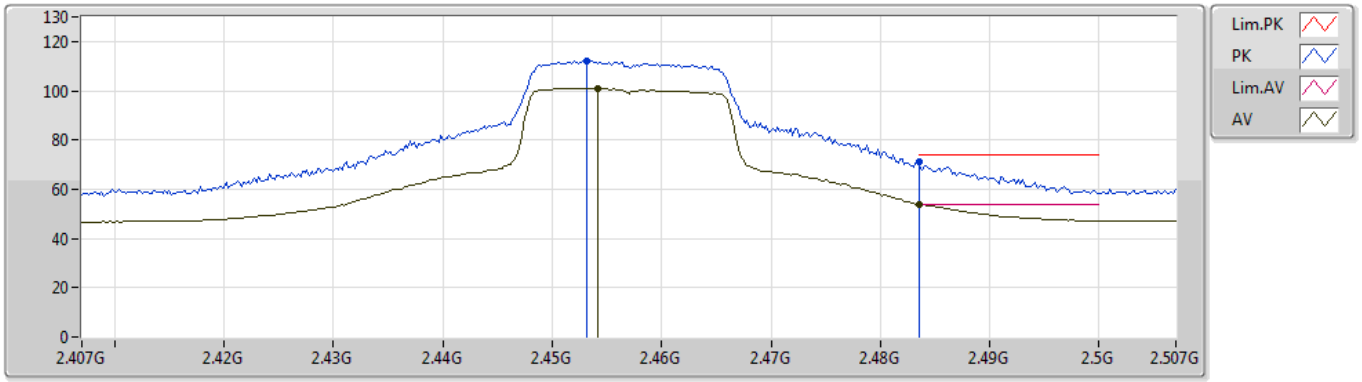
EUT Y_2TX
Setting 23
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.86696G	44.97	74.00	-29.03	7.27	3	Horizontal	49	1.23	-	37.70
AV	4.86464G	30.68	54.00	-23.32	7.26	3	Horizontal	49	1.23	-	23.42
PK	7.3146G	49.38	74.00	-24.62	10.56	3	Horizontal	168	1.69	-	38.82
AV	7.31096G	35.44	54.00	-18.56	10.54	3	Horizontal	168	1.69	-	24.90

VHT20_Nss1,(MCS0)_2TX

2457MHz_TX

06/08/2019



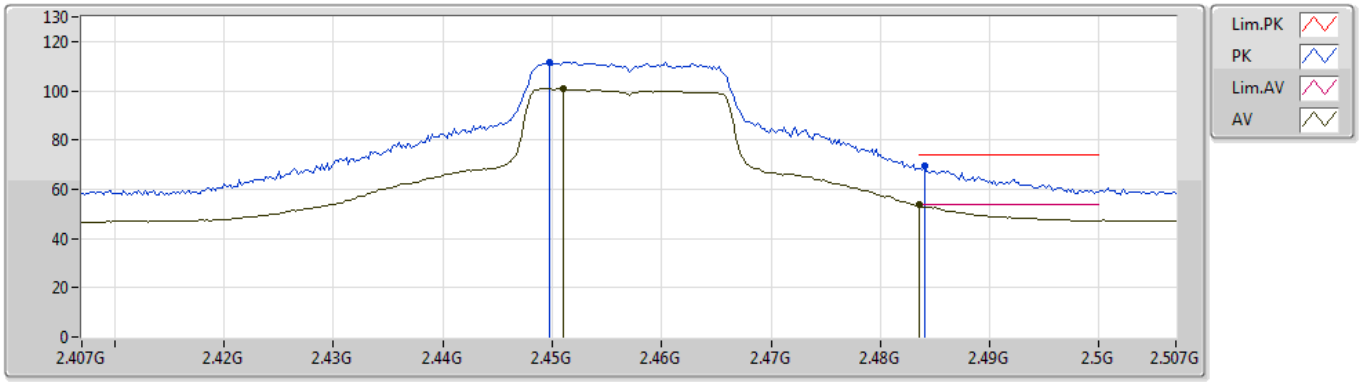
EUT Y_2TX
Setting 20
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4532G	112.24	Inf	-Inf	31.34	3	Vertical	151	2.55	-	80.90
AV	2.4542G	101.10	Inf	-Inf	31.34	3	Vertical	151	2.55	-	69.76
PK	2.4835G	71.06	74.00	-2.94	31.39	3	Vertical	151	2.55	-	39.67
AV	2.4835G	53.85	54.00	-0.15	31.39	3	Vertical	151	2.55	-	22.46

VHT20_Nss1,(MCS0)_2TX

2457MHz_TX

06/08/2019



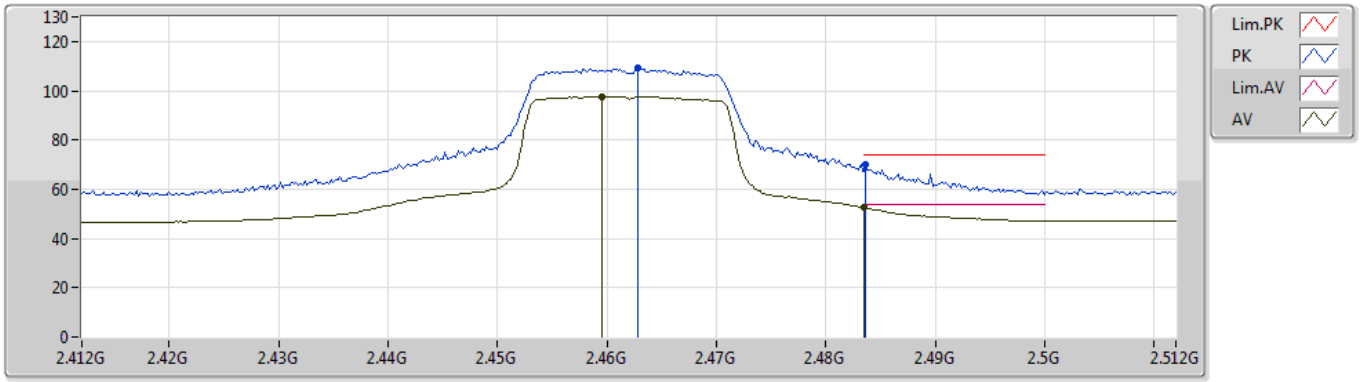
EUT Y_2TX
Setting 20
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4498G	111.50	Inf	-Inf	31.33	3	Horizontal	198	1.53	-	80.17
AV	2.451G	100.86	Inf	-Inf	31.33	3	Horizontal	198	1.53	-	69.53
PK	2.484G	69.38	74.00	-4.62	31.39	3	Horizontal	198	1.53	-	37.99
AV	2.48351G	53.60	54.00	-0.40	31.39	3	Horizontal	198	1.53	-	22.21

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



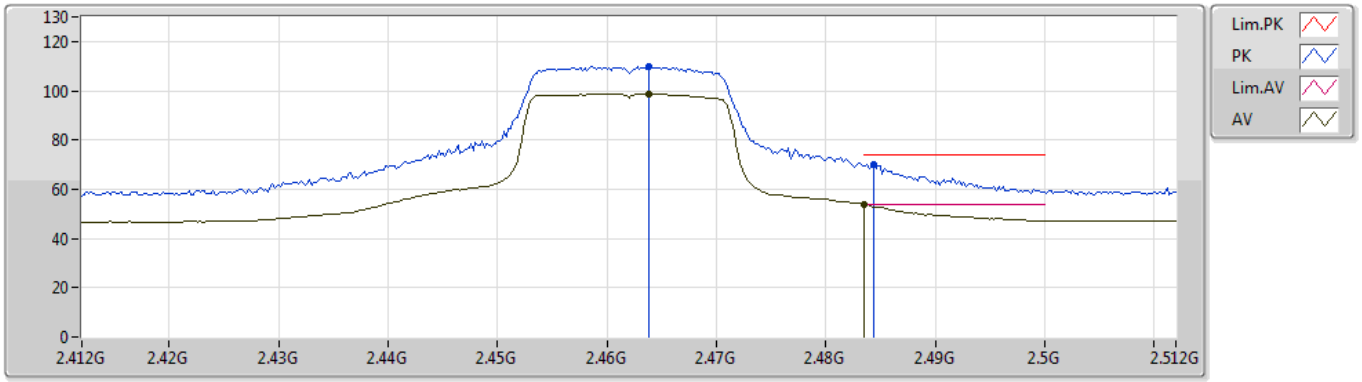
EUT Y_2TX
Setting 18.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4628G	109.17	Inf	-Inf	31.36	3	Vertical	123	2.13	-	77.81
AV	2.4596G	97.75	Inf	-Inf	31.35	3	Vertical	123	2.13	-	66.40
PK	2.4836G	70.21	74.00	-3.79	31.39	3	Vertical	123	2.13	-	38.82
AV	2.4835G	52.68	54.00	-1.32	31.39	3	Vertical	123	2.13	-	21.29

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



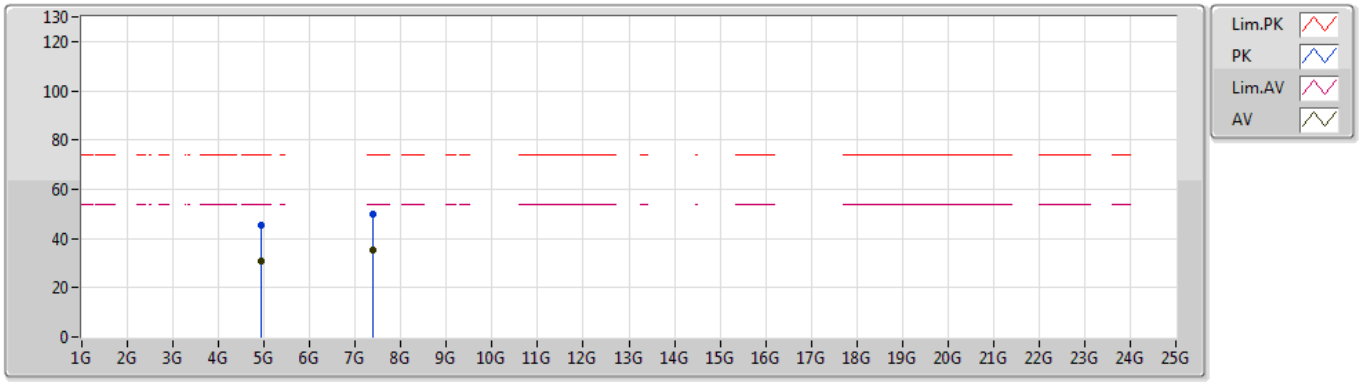
EUT Y_2TX
Setting 18.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4638G	109.94	Inf	-Inf	31.36	3	Horizontal	206	1.36	-	78.58
AV	2.4638G	98.87	Inf	-Inf	31.36	3	Horizontal	206	1.36	-	67.51
PK	2.4844G	70.13	74.00	-3.87	31.40	3	Horizontal	206	1.36	-	38.73
AV	2.4835G	53.95	54.00	-0.05	31.39	3	Horizontal	206	1.36	-	22.56

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



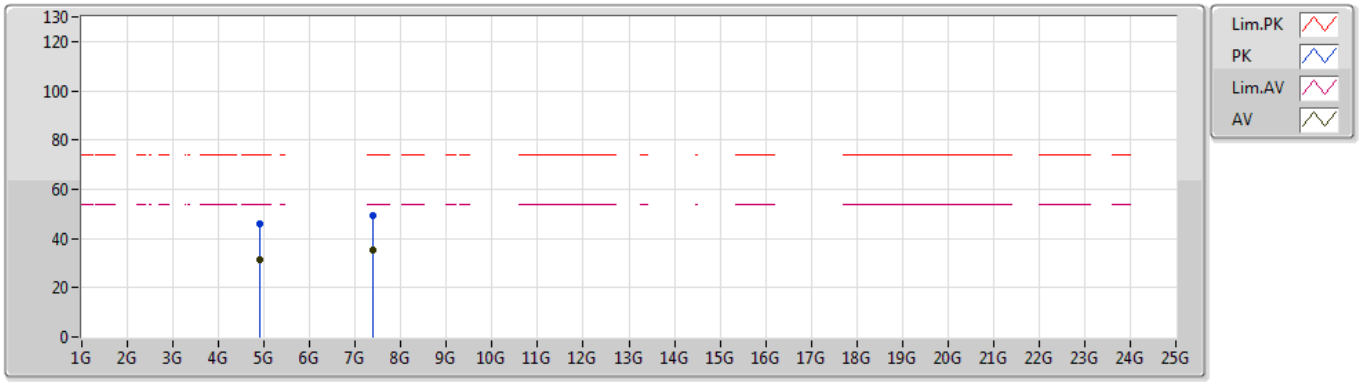
EUT Y_2TX
Setting 18.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92788G	45.14	74.00	-28.86	7.42	3	Vertical	165	2.38	-	37.72
AV	4.93148G	30.92	54.00	-23.08	7.43	3	Vertical	165	2.38	-	23.49
PK	7.37696G	49.79	74.00	-24.21	10.73	3	Vertical	193	1.29	-	39.06
AV	7.3778G	35.42	54.00	-18.58	10.73	3	Vertical	193	1.29	-	24.69

VHT20_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



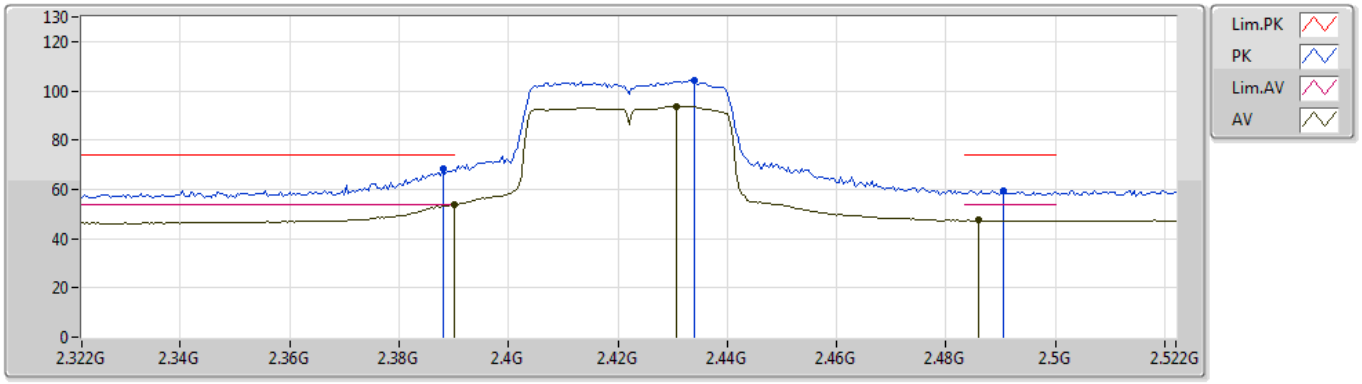
EUT Y_2TX
Setting 18.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.91696G	45.83	74.00	-28.17	7.38	3	Horizontal	358	1.93	-	38.45
AV	4.916G	31.29	54.00	-22.71	7.38	3	Horizontal	358	1.93	-	23.91
PK	7.3798G	49.54	74.00	-24.46	10.75	3	Horizontal	277	1.21	-	38.79
AV	7.38452G	35.41	54.00	-18.59	10.76	3	Horizontal	277	1.21	-	24.65

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



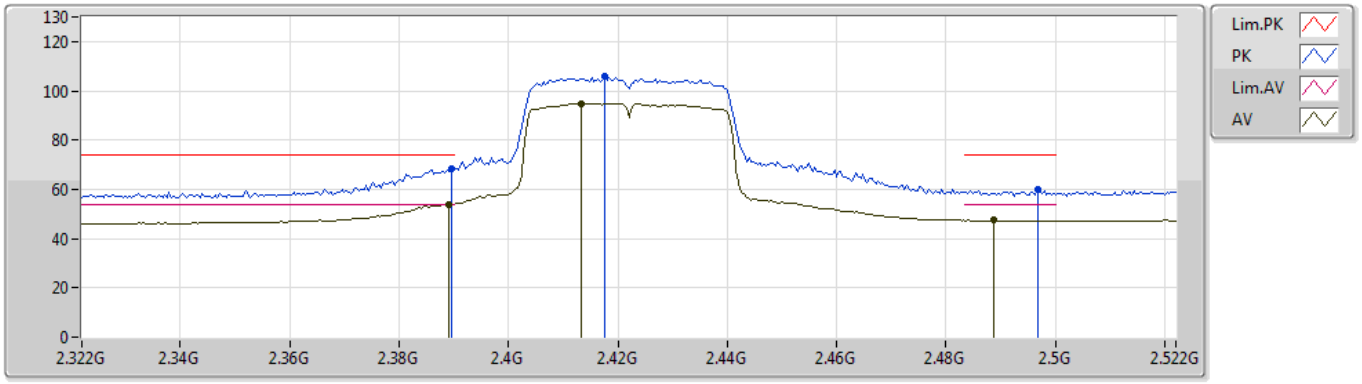
EUT Y_2TX
Setting 17.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.388G	68.48	74.00	-5.52	31.20	3	Vertical	125	2.40	-	37.28
AV	2.39G	53.95	54.00	-0.05	31.20	3	Vertical	125	2.40	-	22.75
PK	2.434G	104.06	Inf	-Inf	31.29	3	Vertical	125	2.40	-	72.77
AV	2.4308G	93.76	Inf	-Inf	31.29	3	Vertical	125	2.40	-	62.47
PK	2.4904G	59.47	74.00	-14.53	31.41	3	Vertical	125	2.40	-	28.06
AV	2.486G	47.60	54.00	-6.40	31.40	3	Vertical	125	2.40	-	16.20

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



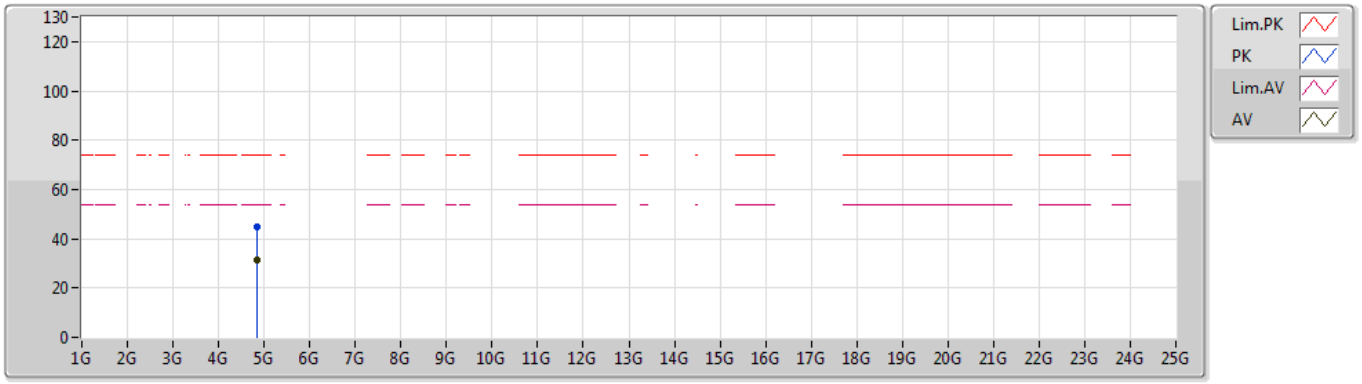
EUT Y_2TX
Setting 17.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	68.28	74.00	-5.72	31.20	3	Horizontal	185	2.00	-	37.08
AV	2.3892G	53.98	54.00	-0.02	31.20	3	Horizontal	185	2.00	-	22.78
PK	2.4176G	105.80	Inf	-Inf	31.27	3	Horizontal	185	2.00	-	74.53
AV	2.4132G	94.85	Inf	-Inf	31.26	3	Horizontal	185	2.00	-	63.59
PK	2.4968G	59.86	74.00	-14.14	31.42	3	Horizontal	185	2.00	-	28.44
AV	2.4888G	47.40	54.00	-6.60	31.41	3	Horizontal	185	2.00	-	15.99

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



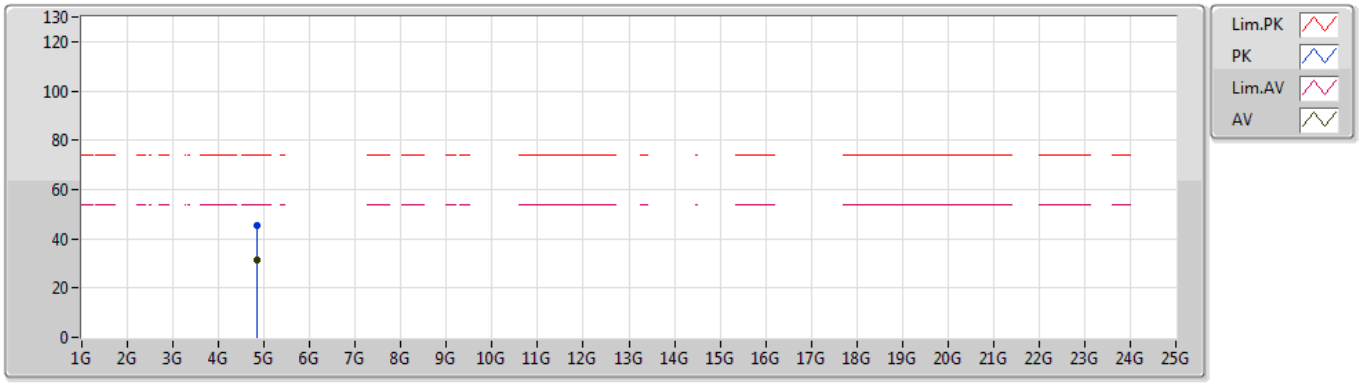
EUT Y_2TX
Setting 17.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.83672G	44.90	74.00	-29.10	7.20	3	Vertical	247	1.76	-	37.70
AV	4.83452G	31.38	54.00	-22.62	7.20	3	Vertical	247	1.76	-	24.18

VHT40_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



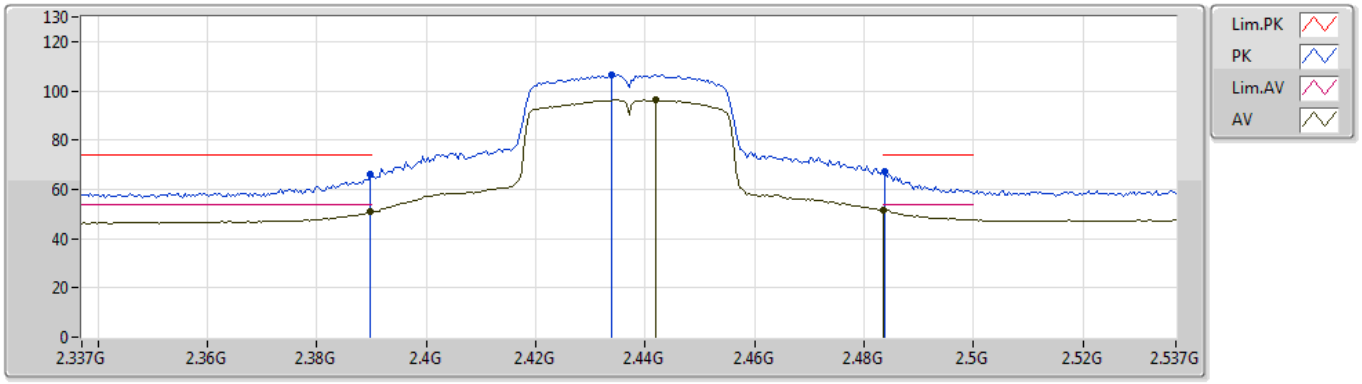
EUT Y_2TX
Setting 17.5
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.83432G	45.26	74.00	-28.74	7.20	3	Horizontal	273	2.14	-	38.06
AV	4.83456G	31.40	54.00	-22.60	7.20	3	Horizontal	273	2.14	-	24.20

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



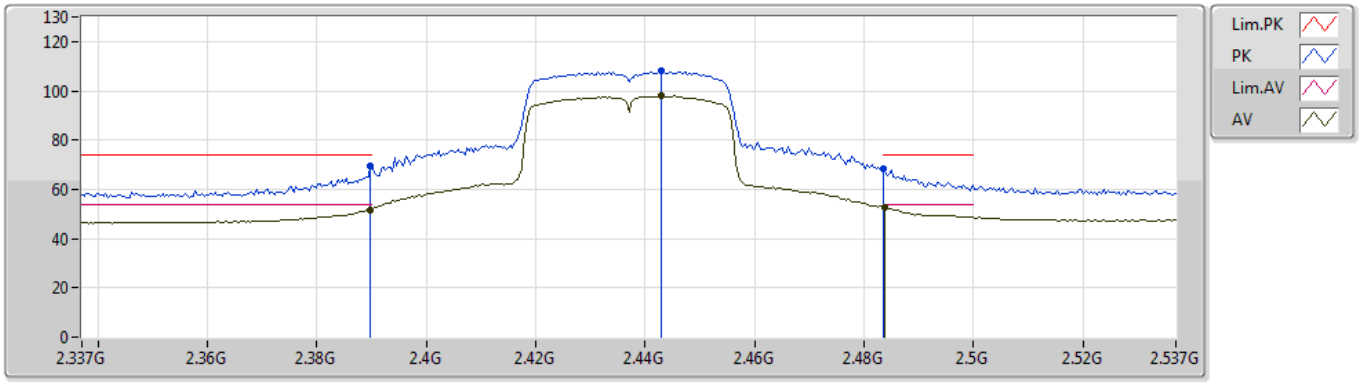
EUT Y_2TX
Setting 19
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	65.88	74.00	-8.12	31.20	3	Vertical	64	2.41	-	34.68
AV	2.3898G	50.75	54.00	-3.25	31.20	3	Vertical	64	2.41	-	19.55
PK	2.4338G	106.55	Inf	-Inf	31.29	3	Vertical	64	2.41	-	75.26
AV	2.4418G	96.18	Inf	-Inf	31.32	3	Vertical	64	2.41	-	64.86
PK	2.4838G	67.28	74.00	-6.72	31.39	3	Vertical	64	2.41	-	35.89
AV	2.4835G	51.70	54.00	-2.30	31.39	3	Vertical	64	2.41	-	20.31

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



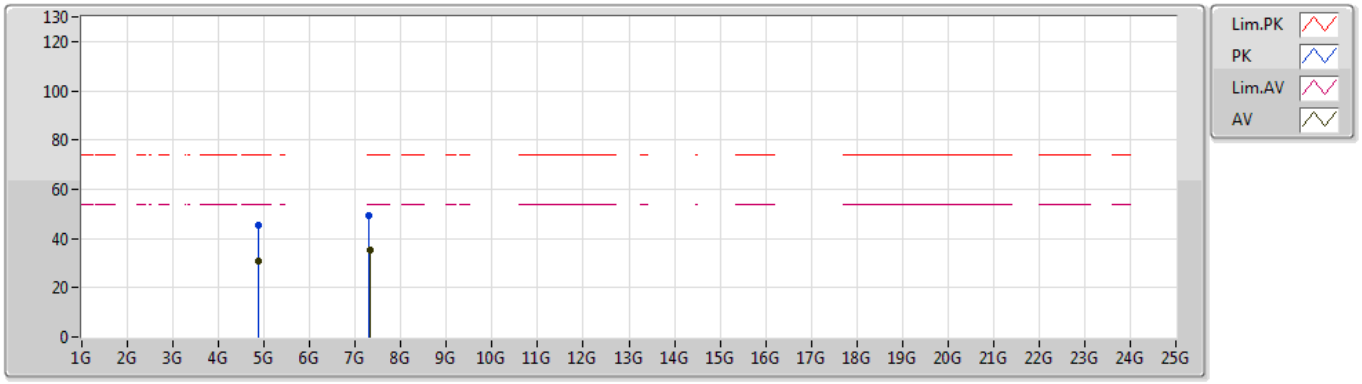
EUT Y_2TX
Setting 19
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	69.45	74.00	-4.55	31.20	3	Horizontal	194	1.55	-	38.25
AV	2.3898G	51.83	54.00	-2.17	31.20	3	Horizontal	194	1.55	-	20.63
PK	2.443G	107.98	Inf	-Inf	31.32	3	Horizontal	194	1.55	-	76.66
AV	2.443G	97.94	Inf	-Inf	31.32	3	Horizontal	194	1.55	-	66.62
PK	2.4835G	68.30	74.00	-5.70	31.39	3	Horizontal	194	1.55	-	36.91
AV	2.4838G	52.85	54.00	-1.15	31.39	3	Horizontal	194	1.55	-	21.46

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



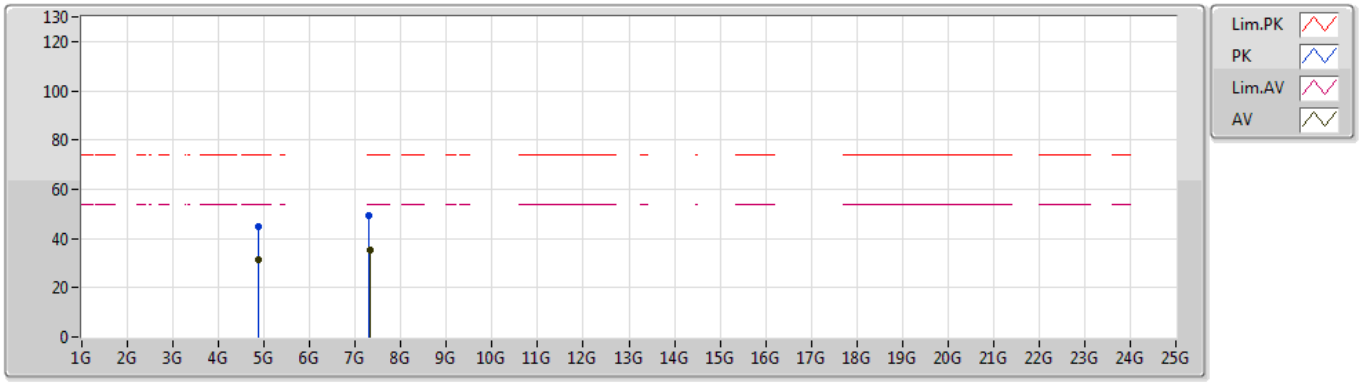
EUT Y_2TX
Setting 19
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.88392G	45.22	74.00	-28.78	7.32	3	Vertical	143	1.50	-	37.90
AV	4.87708G	31.00	54.00	-23.00	7.30	3	Vertical	143	1.50	-	23.70
PK	7.30716G	49.11	74.00	-24.89	10.55	3	Vertical	259	1.85	-	38.56
AV	7.32076G	35.21	54.00	-18.79	10.58	3	Vertical	259	1.85	-	24.63

VHT40_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



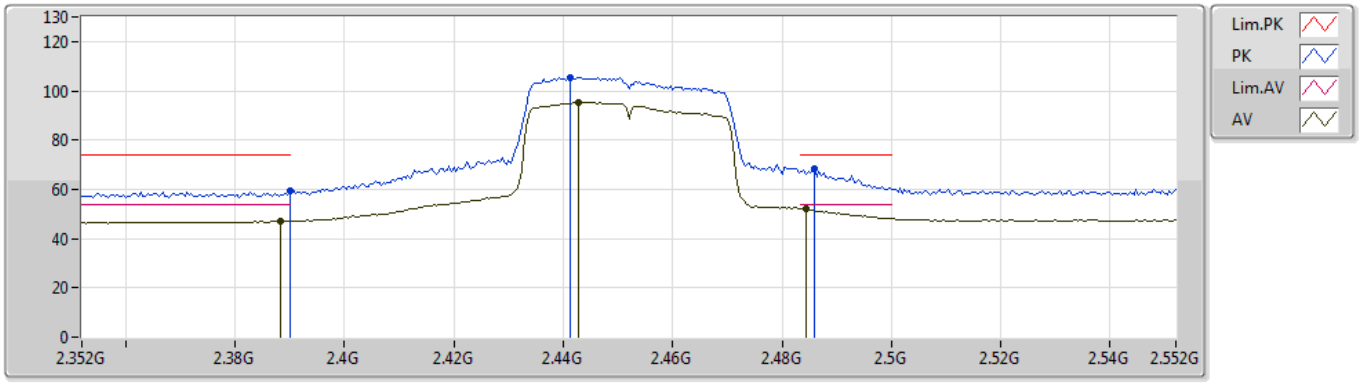
EUT Y_2TX
Setting 19
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87448G	44.93	74.00	-29.07	7.28	3	Horizontal	245	2.99	-	37.65
AV	4.864G	31.54	54.00	-22.46	7.26	3	Horizontal	245	2.99	-	24.28
PK	7.30952G	49.21	74.00	-24.79	10.54	3	Horizontal	305	1.44	-	38.67
AV	7.31856G	35.24	54.00	-18.76	10.57	3	Horizontal	305	1.44	-	24.67

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



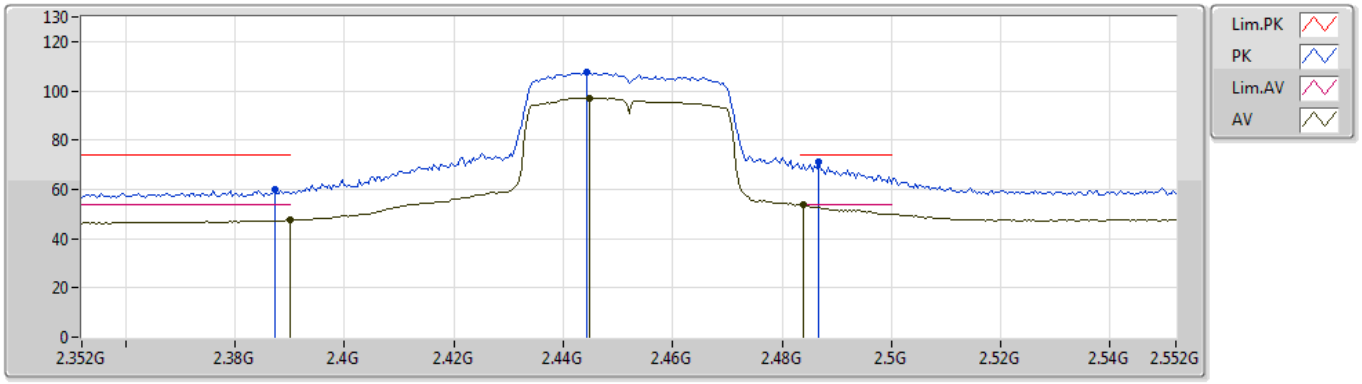
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.39G	59.29	74.00	-14.71	31.20	3	Vertical	66	2.42	-	28.09
AV	2.3884G	47.01	54.00	-6.99	31.20	3	Vertical	66	2.42	-	15.81
PK	2.4412G	105.61	Inf	-Inf	31.32	3	Vertical	66	2.42	-	74.29
AV	2.4428G	95.27	Inf	-Inf	31.32	3	Vertical	66	2.42	-	63.95
PK	2.486G	68.17	74.00	-5.83	31.40	3	Vertical	66	2.42	-	36.77
AV	2.4844G	52.04	54.00	-1.96	31.40	3	Vertical	66	2.42	-	20.64

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



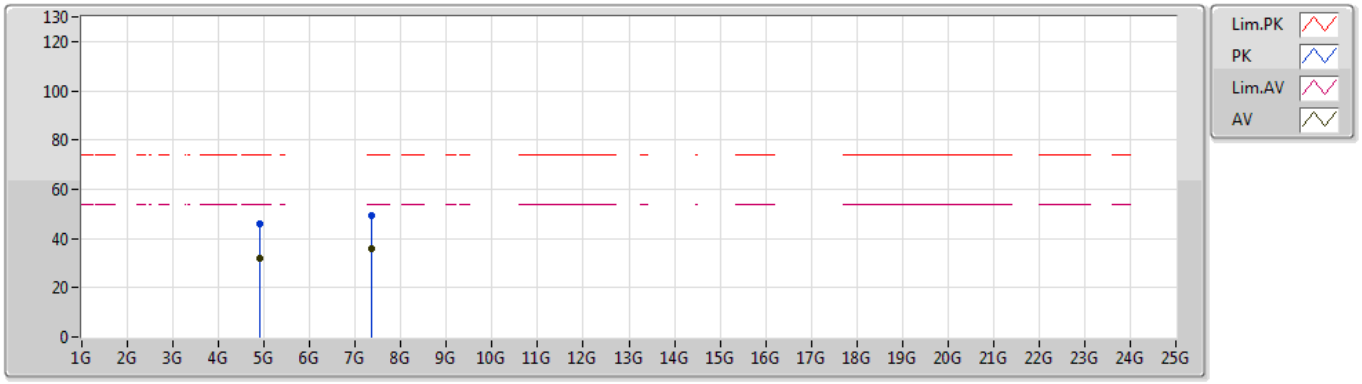
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3872G	59.76	74.00	-14.24	31.20	3	Horizontal	195	1.56	-	28.56
AV	2.39G	47.47	54.00	-6.53	31.20	3	Horizontal	195	1.56	-	16.27
PK	2.4444G	107.54	Inf	-Inf	31.32	3	Horizontal	195	1.56	-	76.22
AV	2.4448G	97.21	Inf	-Inf	31.32	3	Horizontal	195	1.56	-	65.89
PK	2.4868G	71.21	74.00	-2.79	31.40	3	Horizontal	195	1.56	-	39.81
AV	2.484G	53.68	54.00	-0.32	31.39	3	Horizontal	195	1.56	-	22.29

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



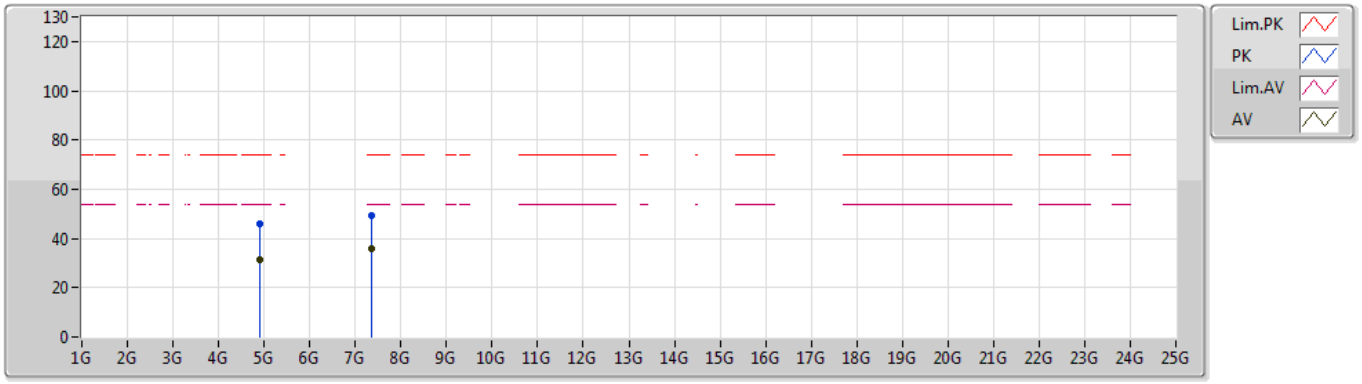
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.90556G	45.79	74.00	-28.21	7.36	3	Vertical	183	1.50	-	38.43
AV	4.90516G	31.95	54.00	-22.05	7.36	3	Vertical	183	1.50	-	24.59
PK	7.36172G	49.19	74.00	-24.81	10.69	3	Vertical	147	1.27	-	38.50
AV	7.36136G	35.61	54.00	-18.39	10.68	3	Vertical	147	1.27	-	24.93

VHT40_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



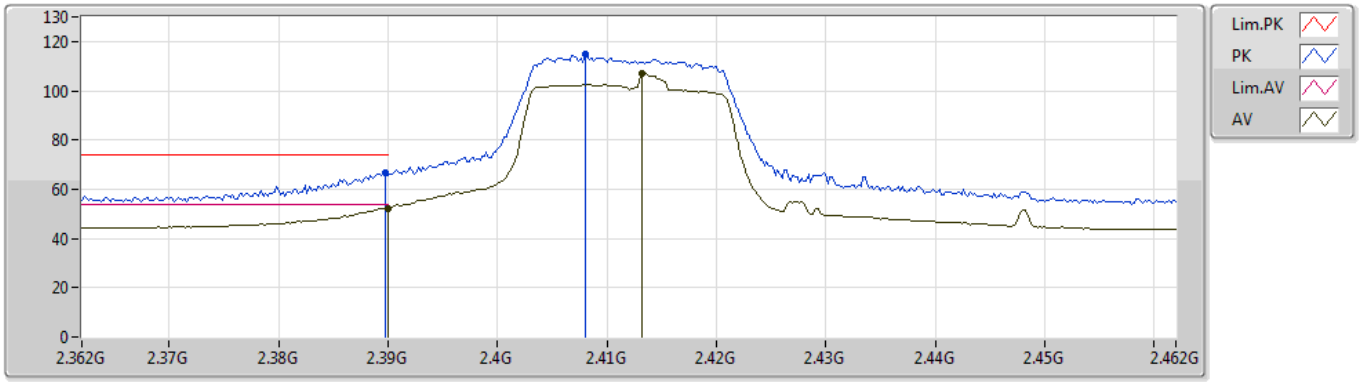
EUT Y_2TX
Setting 18
02-E-2
FSU

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.90968G	45.75	74.00	-28.25	7.37	3	Horizontal	35	2.89	-	38.38
AV	4.914G	31.58	54.00	-22.42	7.38	3	Horizontal	35	2.89	-	24.20
PK	7.36544G	49.20	74.00	-24.80	10.70	3	Horizontal	237	2.37	-	38.50
AV	7.36316G	35.71	54.00	-18.29	10.70	3	Horizontal	237	2.37	-	25.01

VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



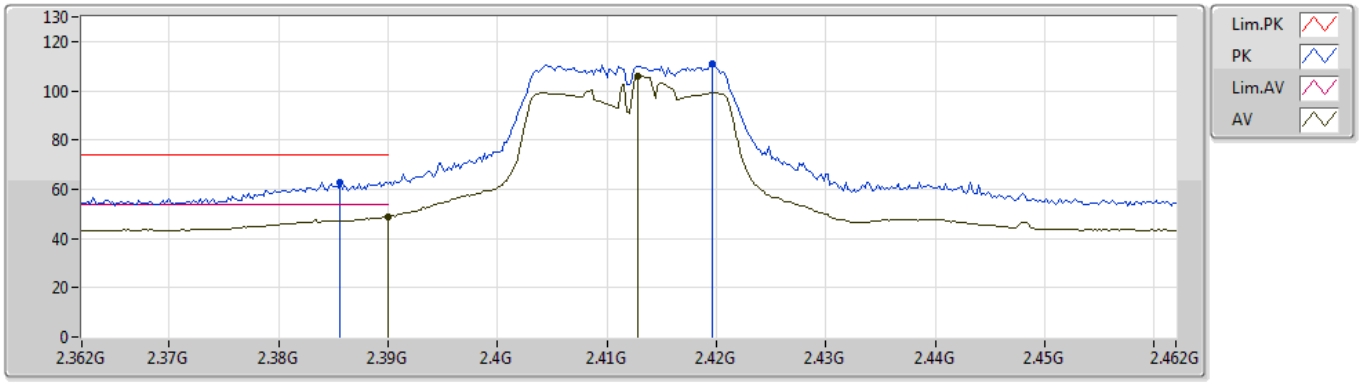
EUT Y_2TX
Setting 19
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	66.87	74.00	-7.13	30.80	3	Vertical	218	1.31	-	36.07
AV	2.39G	52.26	54.00	-1.74	30.80	3	Vertical	218	1.31	-	21.46
PK	2.408G	114.87	Inf	-Inf	30.85	3	Vertical	218	1.31	-	84.02
AV	2.4132G	107.08	Inf	-Inf	30.86	3	Vertical	218	1.31	-	76.22

VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



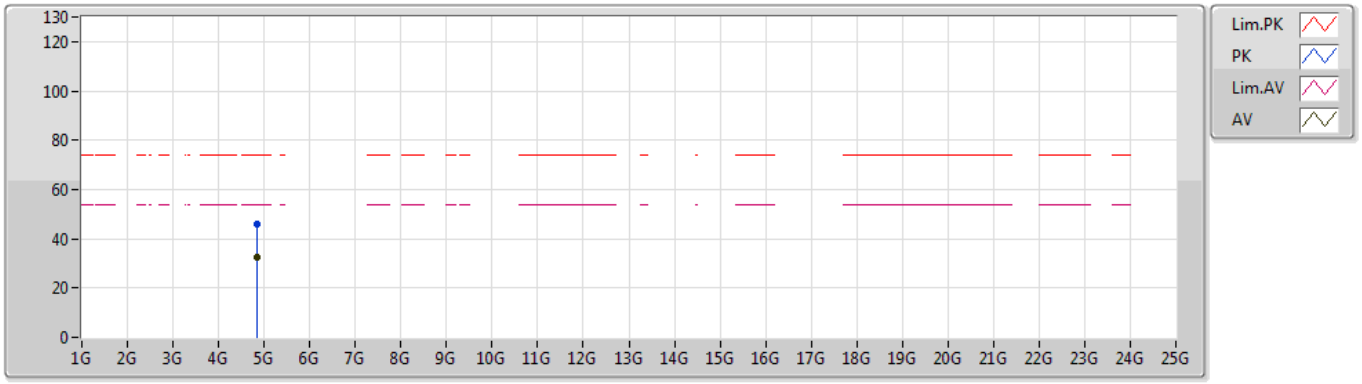
EUT Y_2TX
Setting 19
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3856G	62.61	74.00	-11.39	30.79	3	Horizontal	159	1.41	-	31.82
AV	2.39G	48.71	54.00	-5.29	30.80	3	Horizontal	159	1.41	-	17.91
PK	2.4196G	110.68	Inf	-Inf	30.87	3	Horizontal	159	1.41	-	79.81
AV	2.4128G	105.71	Inf	-Inf	30.86	3	Horizontal	159	1.41	-	74.85

VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



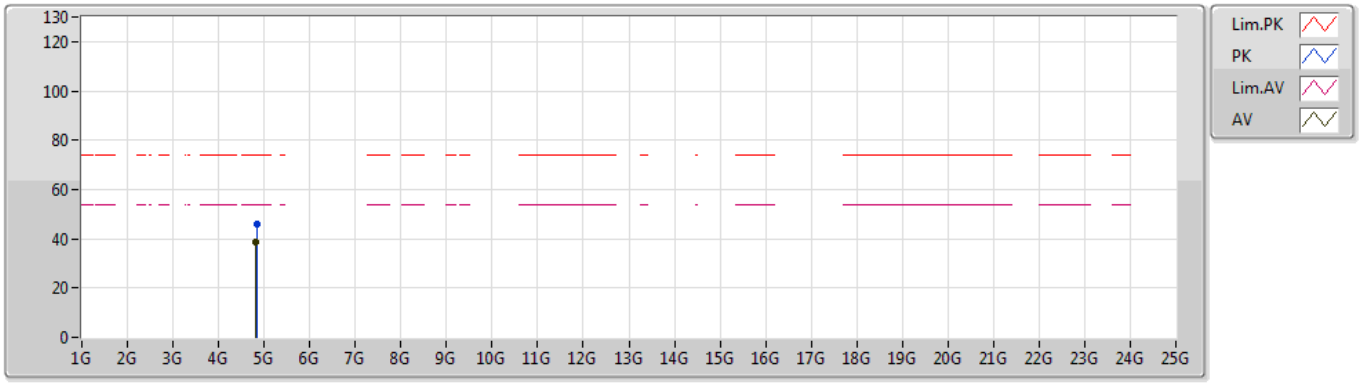
EUT Y_2TX
Setting 19
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.83306G	45.94	74.00	-28.06	3.63	3	Vertical	228	2.55	-	42.31
AV	4.82928G	32.51	54.00	-21.49	3.62	3	Vertical	228	2.55	-	28.89

VHT20-BF_Nss1,(MCS0)_2TX

2412MHz_TX

06/08/2019



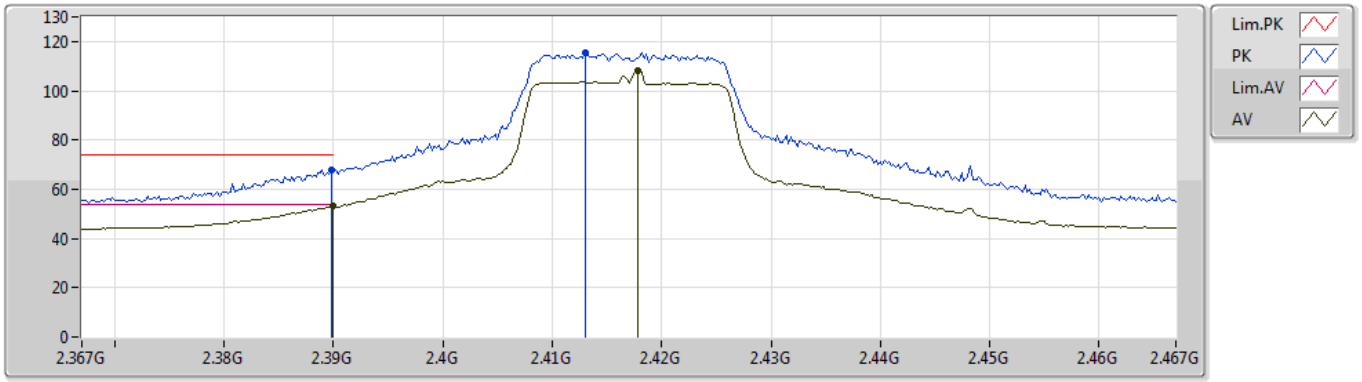
EUT Y_2TX
Setting 19
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.83288G	46.21	74.00	-27.79	3.63	3	Horizontal	97	1.83	-	42.58
AV	4.824G	38.42	54.00	-15.58	3.59	3	Horizontal	97	1.83	-	34.83

VHT20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

06/08/2019



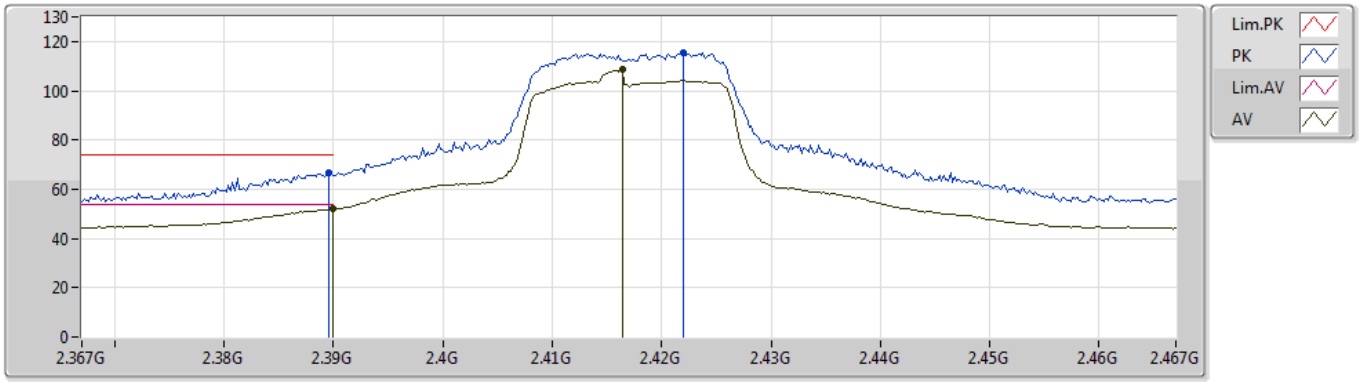
EUT Y_2TX
Setting 21
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3898G	68.04	74.00	-5.96	30.80	3	Vertical	353	1.54	-	37.24
AV	2.39G	53.06	54.00	-0.94	30.80	3	Vertical	353	1.54	-	22.26
PK	2.413G	115.29	Inf	-Inf	30.86	3	Vertical	353	1.54	-	84.43
AV	2.4178G	108.05	Inf	-Inf	30.87	3	Vertical	353	1.54	-	77.18

VHT20-BF_Nss1,(MCS0)_2TX

2417MHz_TX

06/08/2019



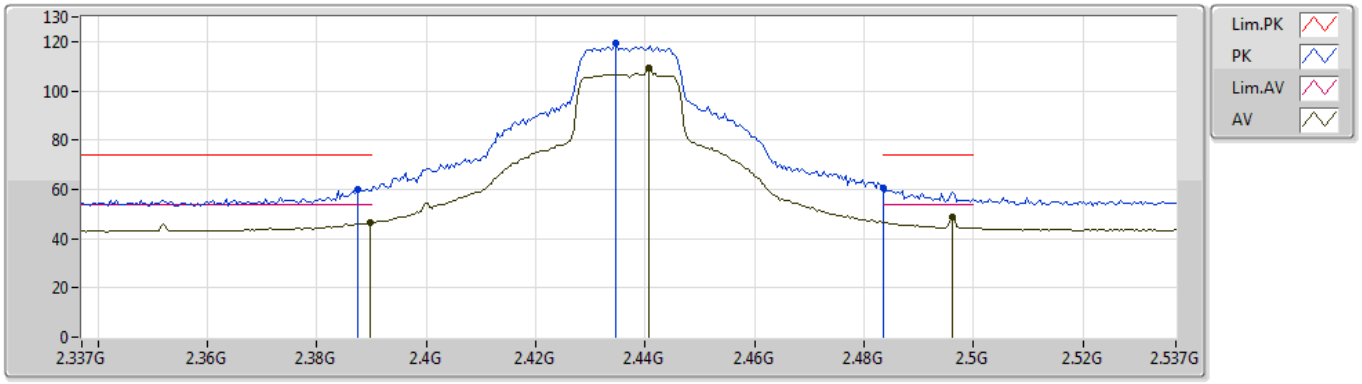
EUT Y_2TX
Setting 21
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	66.83	74.00	-7.17	30.80	3	Horizontal	184	1.50	-	36.03
AV	2.39G	52.16	54.00	-1.84	30.80	3	Horizontal	184	1.50	-	21.36
PK	2.422G	115.28	Inf	-Inf	30.87	3	Horizontal	184	1.50	-	84.41
AV	2.4164G	108.75	Inf	-Inf	30.87	3	Horizontal	184	1.50	-	77.88

VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



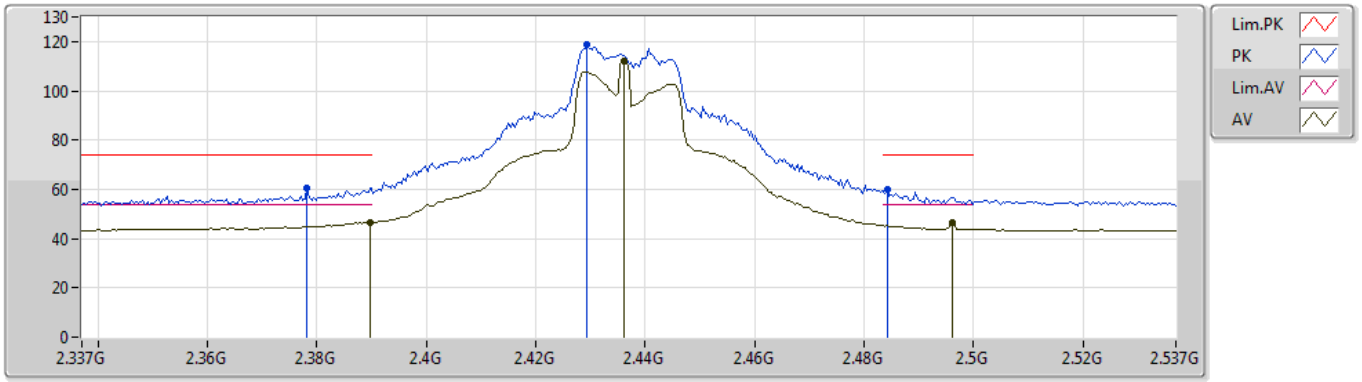
EUT Y_2TX
Setting 25
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3874G	60.07	74.00	-13.93	30.79	3	Vertical	350	1.10	-	29.28
AV	2.3898G	46.42	54.00	-7.58	30.80	3	Vertical	350	1.10	-	15.62
PK	2.4346G	119.24	Inf	-Inf	30.89	3	Vertical	350	1.10	-	88.35
AV	2.4406G	109.35	Inf	-Inf	30.90	3	Vertical	350	1.10	-	78.45
PK	2.4835G	60.74	74.00	-13.26	30.96	3	Vertical	350	1.10	-	29.78
AV	2.4962G	48.86	54.00	-5.14	30.99	3	Vertical	350	1.10	-	17.87

VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



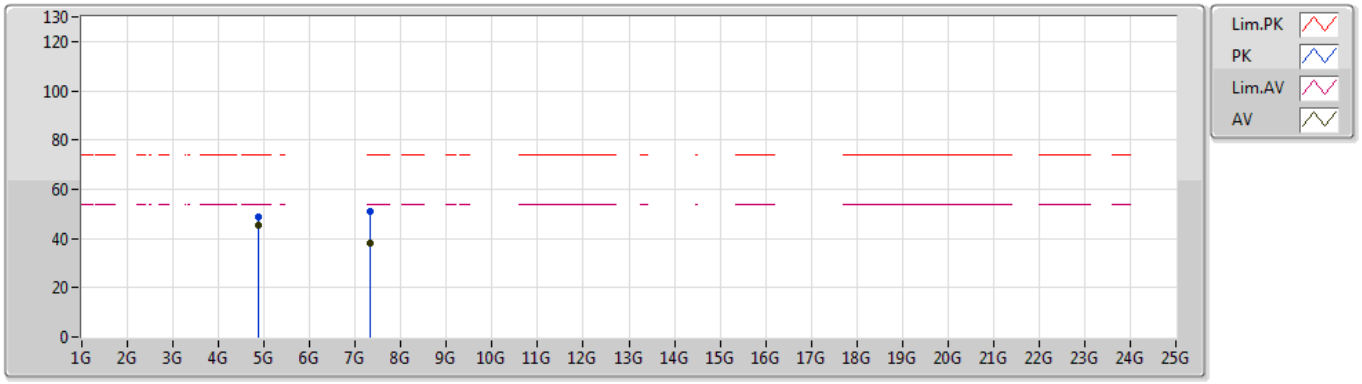
EUT Y_2TX
Setting 25
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3782G	60.44	74.00	-13.56	30.75	3	Horizontal	187	1.50	-	29.69
AV	2.3898G	46.52	54.00	-7.48	30.80	3	Horizontal	187	1.50	-	15.72
PK	2.4294G	118.61	Inf	-Inf	30.88	3	Horizontal	187	1.50	-	87.73
AV	2.4362G	112.02	Inf	-Inf	30.90	3	Horizontal	187	1.50	-	81.12
PK	2.4842G	59.96	74.00	-14.04	30.96	3	Horizontal	187	1.50	-	29.00
AV	2.4962G	46.49	54.00	-7.51	30.99	3	Horizontal	187	1.50	-	15.50

VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



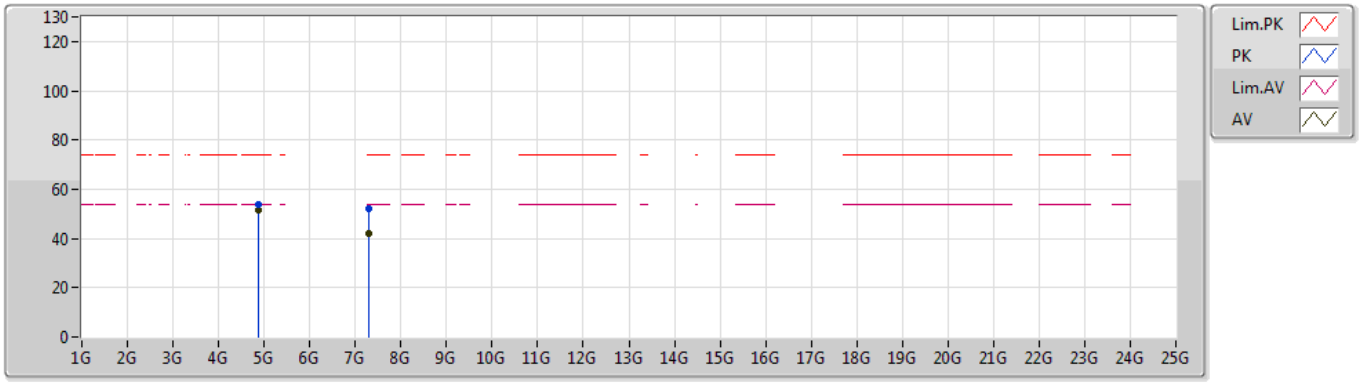
EUT Y_2TX
Setting 25
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87424G	48.47	74.00	-25.53	3.81	3	Vertical	54	2.99	-	44.66
AV	4.874G	45.21	54.00	-8.79	3.81	3	Vertical	54	2.99	-	41.40
PK	7.31346G	51.13	74.00	-22.87	9.25	3	Vertical	306	1.45	-	41.88
AV	7.31188G	38.07	54.00	-15.93	9.25	3	Vertical	306	1.45	-	28.82

VHT20-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



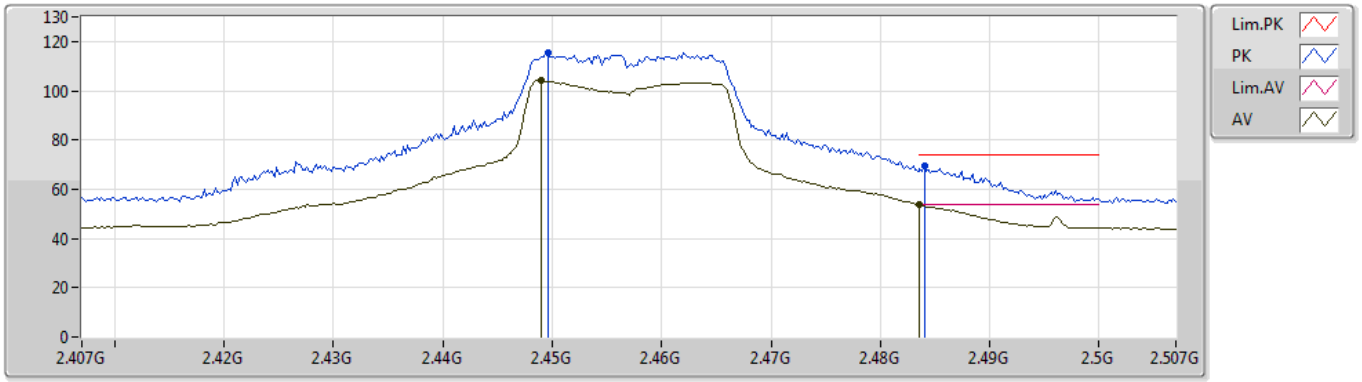
EUT Y_2TX
Setting 25
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.874G	53.85	74.00	-20.15	3.81	3	Horizontal	319	1.20	-	50.04
AV	4.874G	51.47	54.00	-2.53	3.81	3	Horizontal	319	1.20	-	47.66
PK	7.30944G	52.03	74.00	-21.97	9.25	3	Horizontal	156	2.21	-	42.78
AV	7.30998G	42.15	54.00	-11.85	9.25	3	Horizontal	156	2.21	-	32.90

VHT20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

06/08/2019



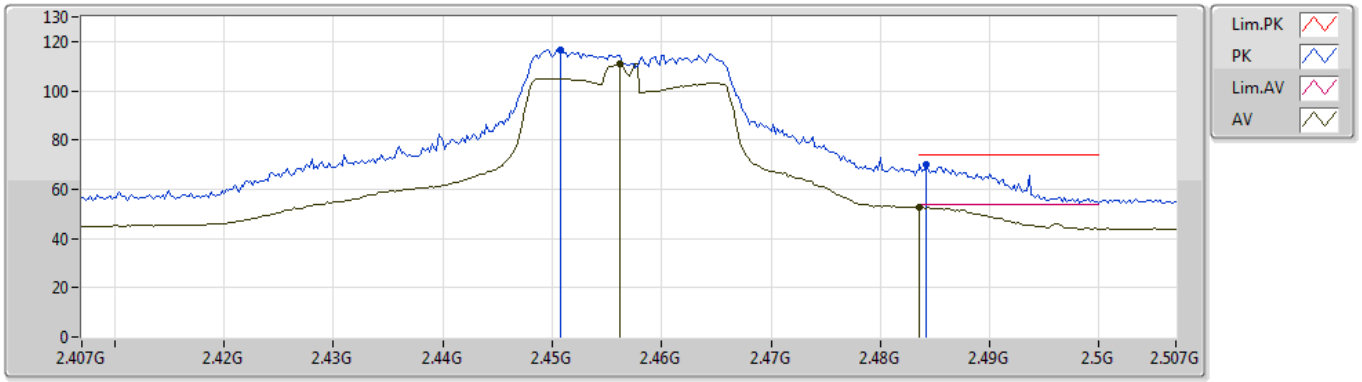
EUT Y_2TX
Setting 22
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4496G	115.58	Inf	-Inf	30.91	3	Vertical	215	1.23	-	84.67
AV	2.449G	104.13	Inf	-Inf	30.91	3	Vertical	215	1.23	-	73.22
PK	2.484G	69.43	74.00	-4.57	30.96	3	Vertical	215	1.23	-	38.47
AV	2.4835G	53.75	54.00	-0.25	30.96	3	Vertical	215	1.23	-	22.79

VHT20-BF_Nss1,(MCS0)_2TX

2457MHz_TX

06/08/2019



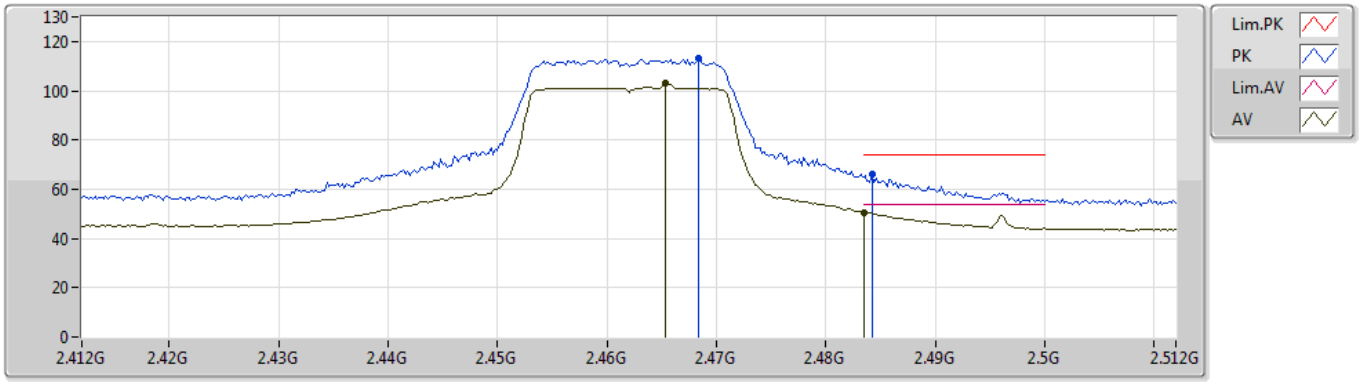
EUT Y_2TX
Setting 22
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4508G	116.58	Inf	-Inf	30.92	3	Horizontal	182	1.21	-	85.66
AV	2.4562G	110.84	Inf	-Inf	30.93	3	Horizontal	182	1.21	-	79.91
PK	2.4842G	70.08	74.00	-3.92	30.96	3	Horizontal	182	1.21	-	39.12
AV	2.4835G	52.62	54.00	-1.38	30.96	3	Horizontal	182	1.21	-	21.66

VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



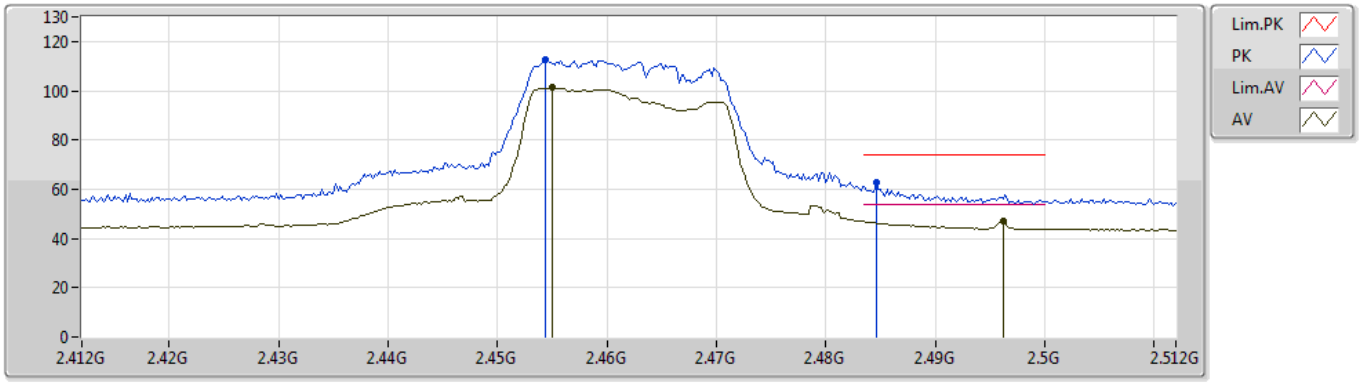
EUT Y_2TX
Setting 20
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4684G	113.00	Inf	-Inf	30.94	3	Vertical	232	1.06	-	82.06
AV	2.4654G	103.12	Inf	-Inf	30.94	3	Vertical	232	1.06	-	72.18
PK	2.4842G	66.10	74.00	-7.90	30.96	3	Vertical	232	1.06	-	35.14
AV	2.4835G	50.41	54.00	-3.59	30.96	3	Vertical	232	1.06	-	19.45

VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



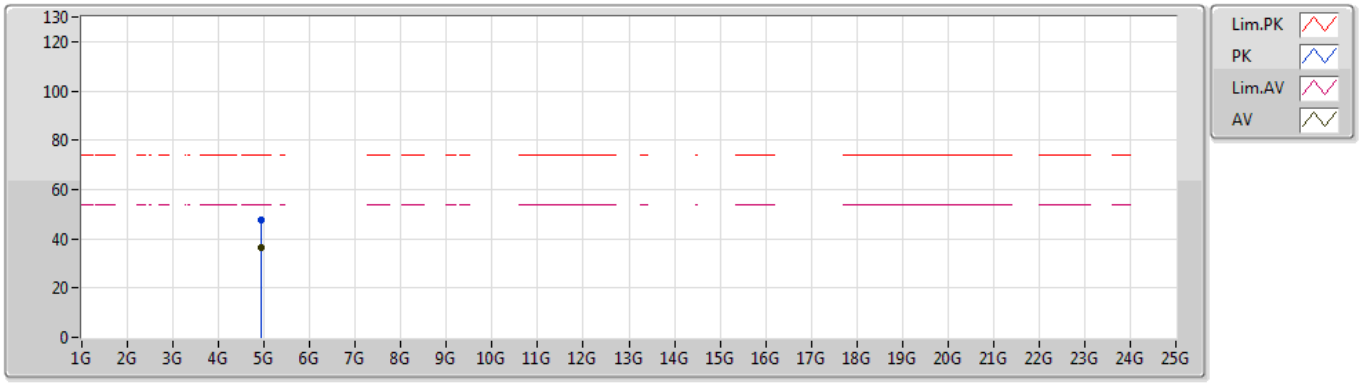
EUT Y_2TX
Setting 20
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.4544G	112.47	Inf	-Inf	30.92	3	Horizontal	190	1.50	-	81.55
AV	2.455G	101.15	Inf	-Inf	30.92	3	Horizontal	190	1.50	-	70.23
PK	2.4846G	62.71	74.00	-11.29	30.96	3	Horizontal	190	1.50	-	31.75
AV	2.4962G	47.14	54.00	-6.86	30.99	3	Horizontal	190	1.50	-	16.15

VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



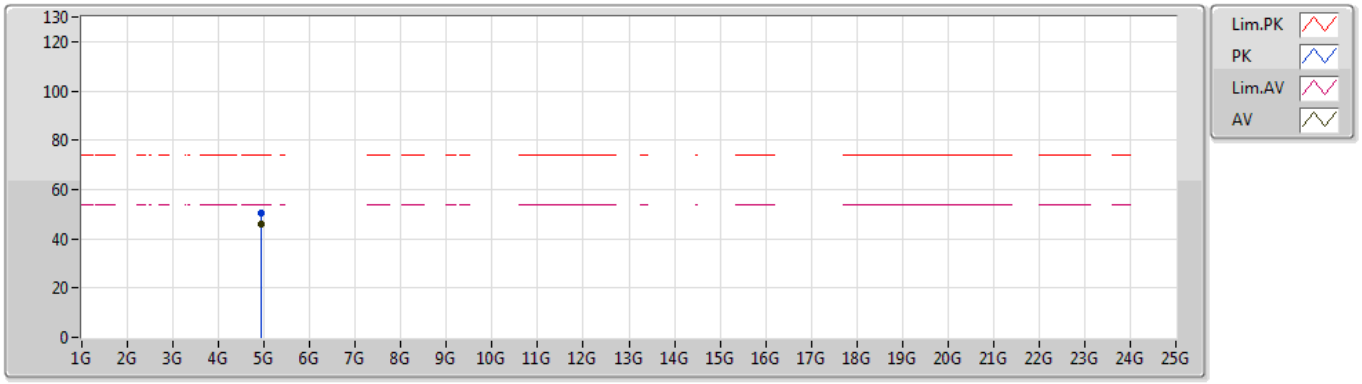
EUT Y_2TX
Setting 20
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92262G	47.90	74.00	-26.10	4.04	3	Vertical	293	2.57	-	43.86
AV	4.924G	36.65	54.00	-17.35	4.04	3	Vertical	293	2.57	-	32.61

VHT20-BF_Nss1,(MCS0)_2TX

2462MHz_TX

06/08/2019



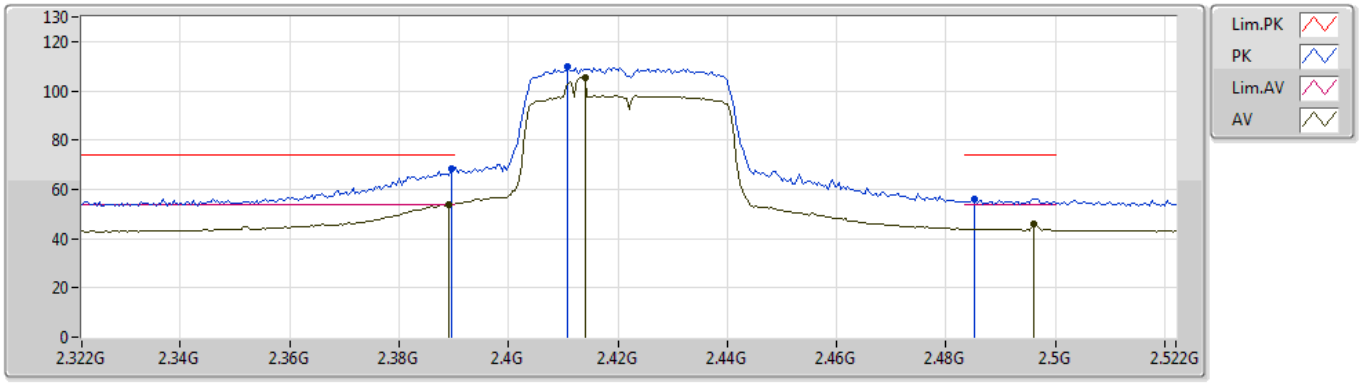
EUT Y_2TX
Setting 20
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.92424G	50.16	74.00	-23.84	4.04	3	Horizontal	330	1.00	-	46.12
AV	4.92394G	46.08	54.00	-7.92	4.04	3	Horizontal	330	1.00	-	42.04

VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



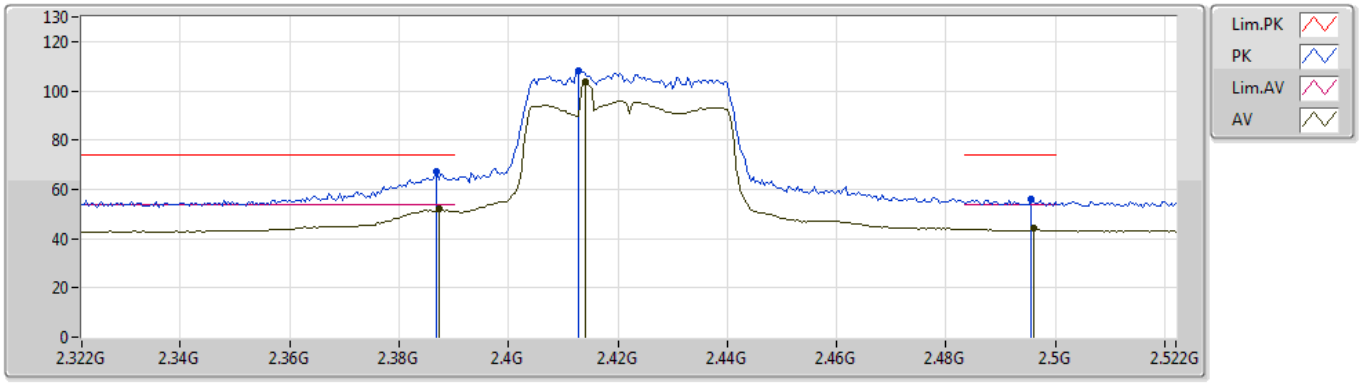
EUT Y_2TX
Setting 19
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	68.56	74.00	-5.44	30.80	3	Vertical	121	2.46	-	37.76
AV	2.3892G	53.94	54.00	-0.06	30.80	3	Vertical	121	2.46	-	23.14
PK	2.4108G	109.59	Inf	-Inf	30.86	3	Vertical	121	2.46	-	78.73
AV	2.414G	105.32	Inf	-Inf	30.86	3	Vertical	121	2.46	-	74.46
PK	2.4852G	56.11	74.00	-17.89	30.97	3	Vertical	121	2.46	-	25.14
AV	2.496G	46.21	54.00	-7.79	30.99	3	Vertical	121	2.46	-	15.22

VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



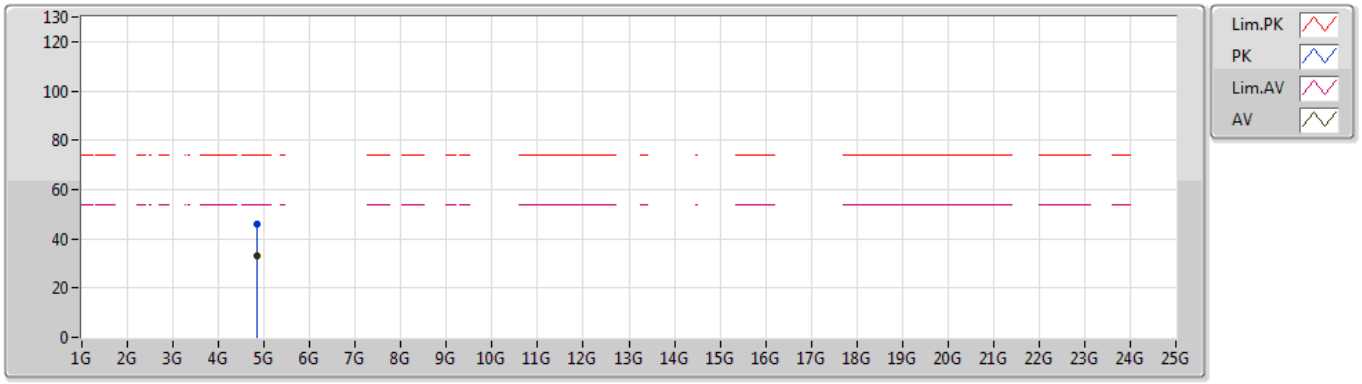
EUT Y_2TX
Setting 19
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3868G	67.06	74.00	-6.94	30.79	3	Horizontal	219	1.00	-	36.27
AV	2.3872G	51.95	54.00	-2.05	30.79	3	Horizontal	219	1.00	-	21.16
PK	2.4128G	108.30	Inf	-Inf	30.86	3	Horizontal	219	1.00	-	77.44
AV	2.414G	103.54	Inf	-Inf	30.86	3	Horizontal	219	1.00	-	72.68
PK	2.4956G	56.06	74.00	-17.94	30.99	3	Horizontal	219	1.00	-	25.07
AV	2.496G	44.29	54.00	-9.71	30.99	3	Horizontal	219	1.00	-	13.30

VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



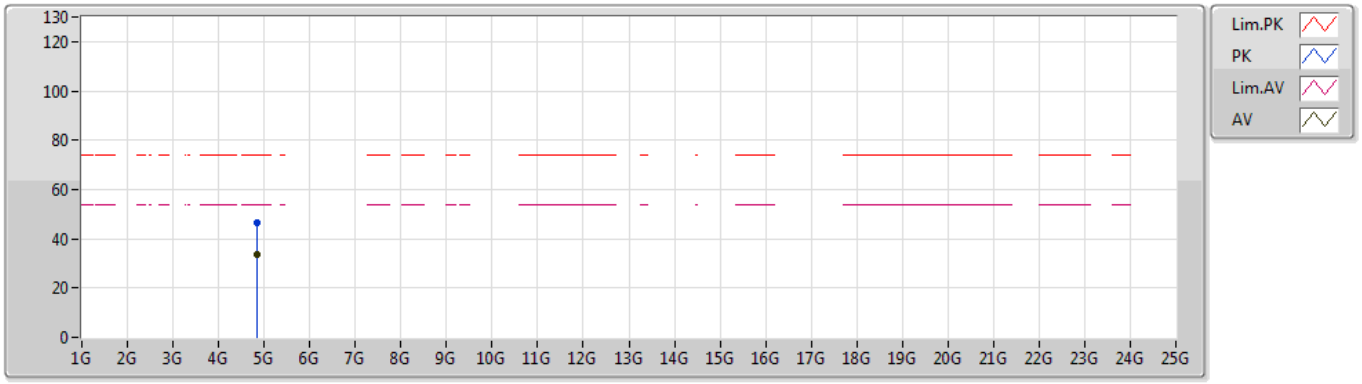
EUT Y_2TX
Setting 19
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8536G	46.22	74.00	-27.78	3.72	3	Vertical	283	2.13	-	42.50
AV	4.8515G	33.03	54.00	-20.97	3.71	3	Vertical	283	2.13	-	29.32

VHT40-BF_Nss1,(MCS0)_2TX

2422MHz_TX

06/08/2019



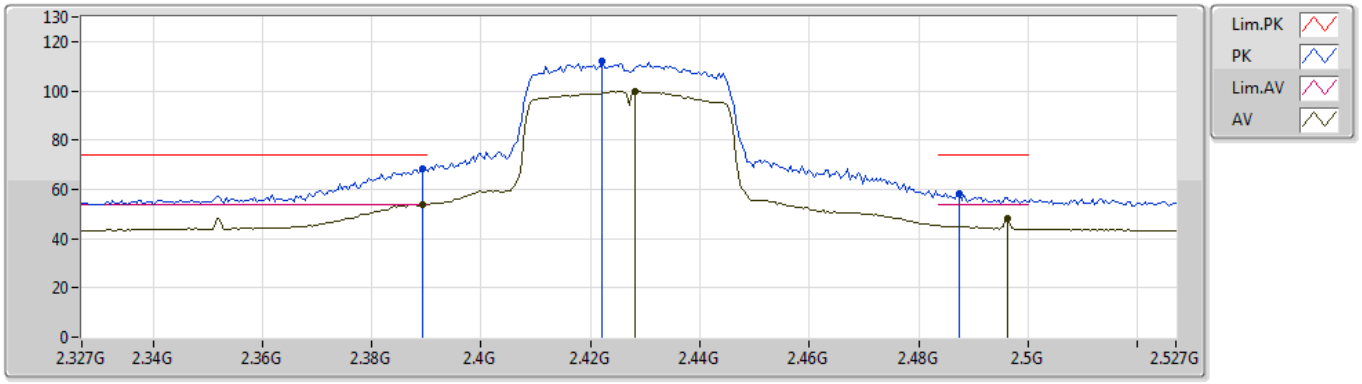
EUT Y_2TX
Setting 19
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.83572G	46.57	74.00	-27.43	3.64	3	Horizontal	195	1.13	-	42.93
AV	4.84394G	33.82	54.00	-20.18	3.67	3	Horizontal	195	1.13	-	30.15

VHT40-BF_Nss1,(MCS0)_2TX

2427MHz_TX

06/08/2019



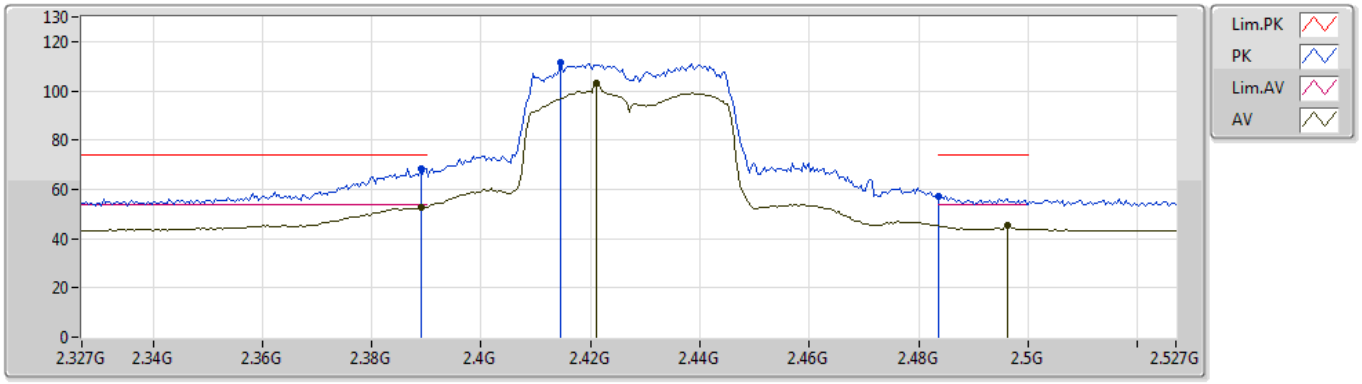
EUT Y_2TX
Setting 20
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3894G	68.25	74.00	-5.75	30.80	3	Vertical	331	1.32	-	37.45
AV	2.3894G	53.86	54.00	-0.14	30.80	3	Vertical	331	1.32	-	23.06
PK	2.4222G	111.80	Inf	-Inf	30.87	3	Vertical	331	1.32	-	80.93
AV	2.4282G	99.68	Inf	-Inf	30.88	3	Vertical	331	1.32	-	68.80
PK	2.4874G	58.42	74.00	-15.58	30.97	3	Vertical	331	1.32	-	27.45
AV	2.4962G	47.92	54.00	-6.08	30.99	3	Vertical	331	1.32	-	16.93

VHT40-BF_Nss1,(MCS0)_2TX

2427MHz_TX

06/08/2019



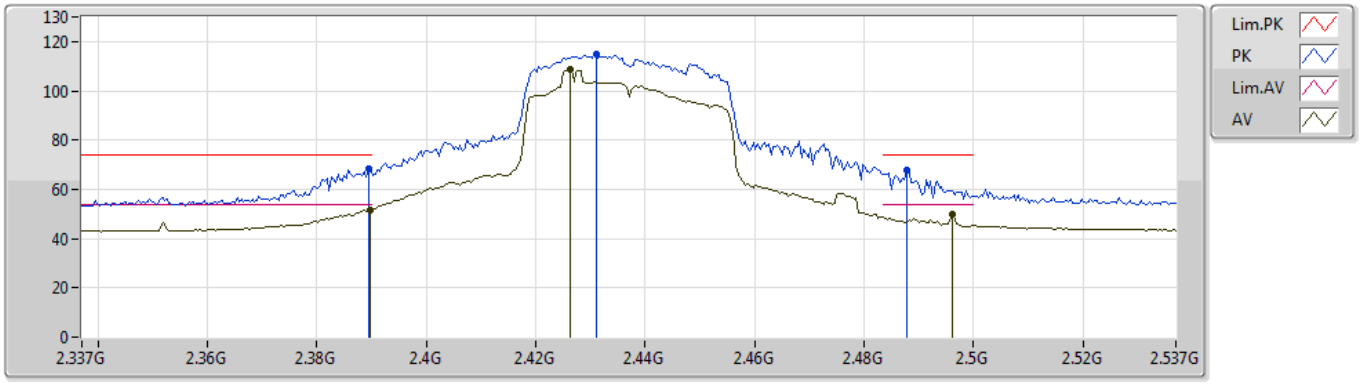
EUT Y_2TX
Setting 20
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.389G	68.44	74.00	-5.56	30.80	3	Horizontal	186	1.46	-	37.64
AV	2.389G	52.74	54.00	-1.26	30.80	3	Horizontal	186	1.46	-	21.94
PK	2.4146G	111.40	Inf	-Inf	30.86	3	Horizontal	186	1.46	-	80.54
AV	2.421G	102.96	Inf	-Inf	30.87	3	Horizontal	186	1.46	-	72.09
PK	2.4835G	57.30	74.00	-16.70	30.96	3	Horizontal	186	1.46	-	26.34
AV	2.4962G	45.51	54.00	-8.49	30.99	3	Horizontal	186	1.46	-	14.52

VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



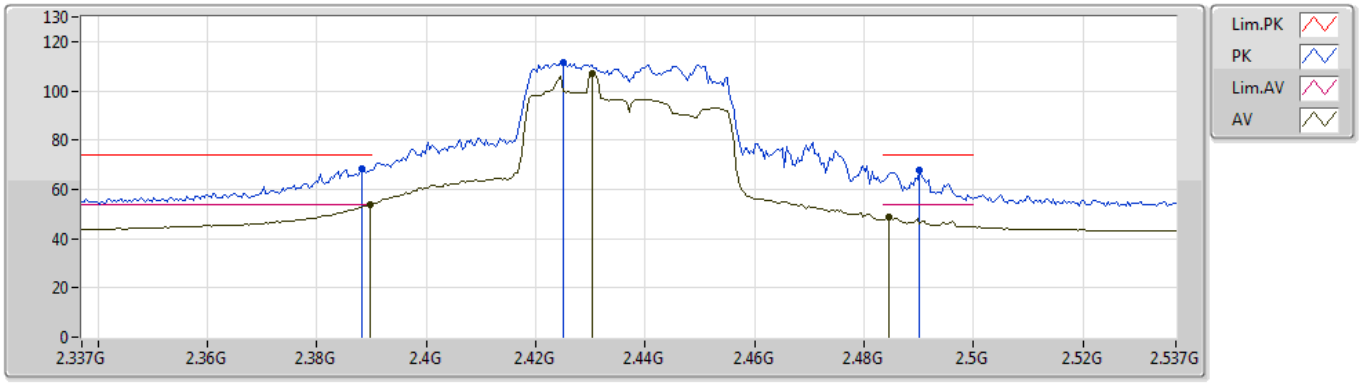
EUT Y_2TX
Setting 22
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3894G	68.20	74.00	-5.80	30.80	3	Vertical	355	1.49	-	37.40
AV	2.3898G	51.77	54.00	-2.23	30.80	3	Vertical	355	1.49	-	20.97
PK	2.431G	115.04	Inf	-Inf	30.89	3	Vertical	355	1.49	-	84.15
AV	2.4262G	108.83	Inf	-Inf	30.88	3	Vertical	355	1.49	-	77.95
PK	2.4878G	67.85	74.00	-6.15	30.97	3	Vertical	355	1.49	-	36.88
AV	2.4962G	49.66	54.00	-4.34	30.99	3	Vertical	355	1.49	-	18.67

VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



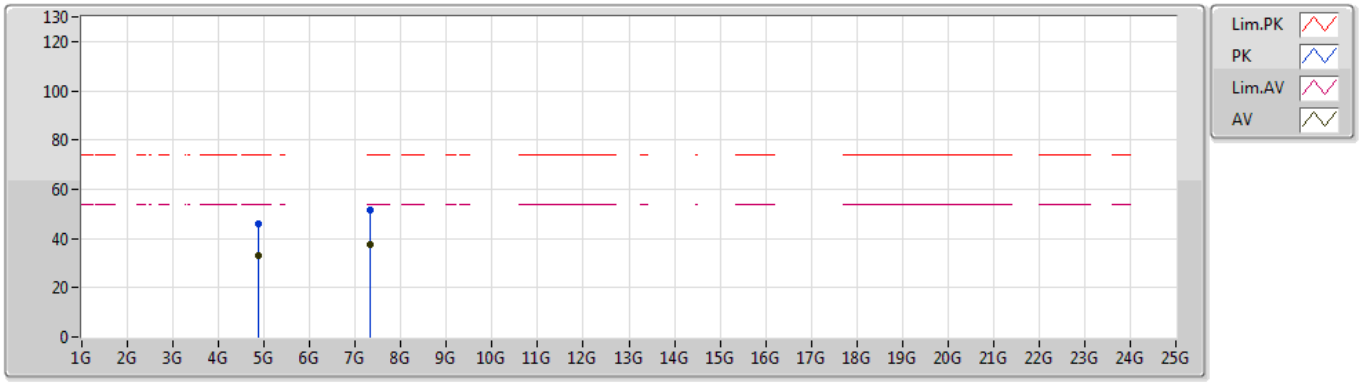
EUT Y_2TX
Setting 22
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3882G	68.30	74.00	-5.70	30.79	3	Horizontal	180	1.00	-	37.51
AV	2.3898G	53.83	54.00	-0.17	30.80	3	Horizontal	180	1.00	-	23.03
PK	2.425G	111.49	Inf	-Inf	30.88	3	Horizontal	180	1.00	-	80.61
AV	2.4302G	106.89	Inf	-Inf	30.89	3	Horizontal	180	1.00	-	76.00
PK	2.4902G	67.70	74.00	-6.30	30.98	3	Horizontal	180	1.00	-	36.72
AV	2.4846G	48.52	54.00	-5.48	30.96	3	Horizontal	180	1.00	-	17.56

VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



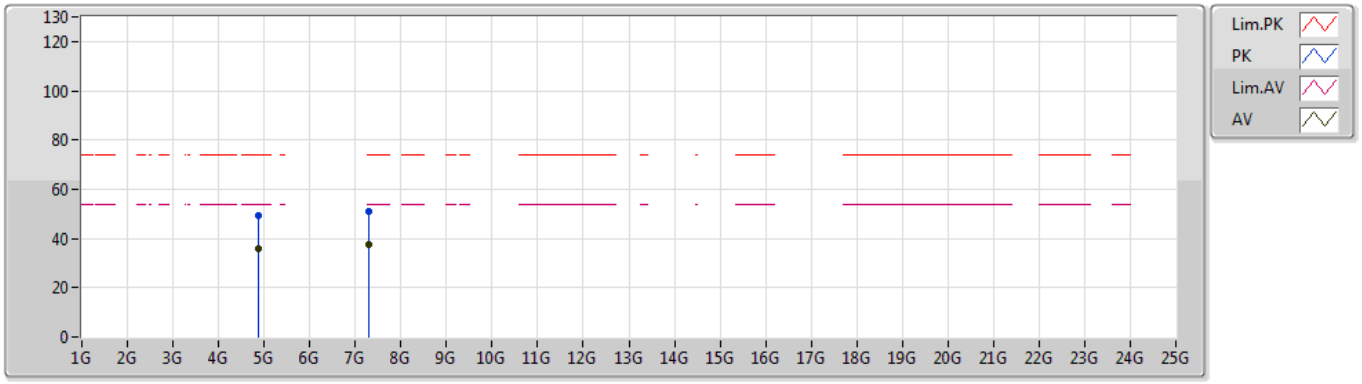
EUT Y_2TX
Setting 22
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.87214G	46.21	74.00	-27.79	3.81	3	Vertical	62	1.83	-	42.40
AV	4.86338G	33.18	54.00	-20.82	3.77	3	Vertical	62	1.83	-	29.41
PK	7.31732G	51.34	74.00	-22.66	9.25	3	Vertical	140	2.43	-	42.09
AV	7.316G	37.70	54.00	-16.30	9.26	3	Vertical	140	2.43	-	28.44

VHT40-BF_Nss1,(MCS0)_2TX

2437MHz_TX

06/08/2019



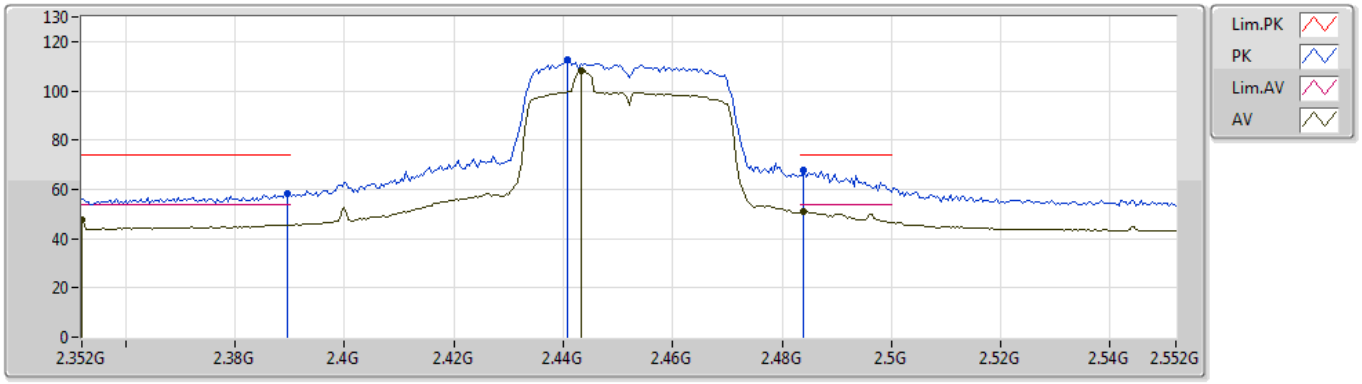
EUT Y_2TX
Setting 22
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.8653G	49.15	74.00	-24.85	3.78	3	Horizontal	321	1.02	-	45.37
AV	4.86614G	36.01	54.00	-17.99	3.78	3	Horizontal	321	1.02	-	32.23
PK	7.30548G	50.79	74.00	-23.21	9.26	3	Horizontal	126	1.19	-	41.53
AV	7.30624G	37.72	54.00	-16.28	9.25	3	Horizontal	126	1.19	-	28.47

VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



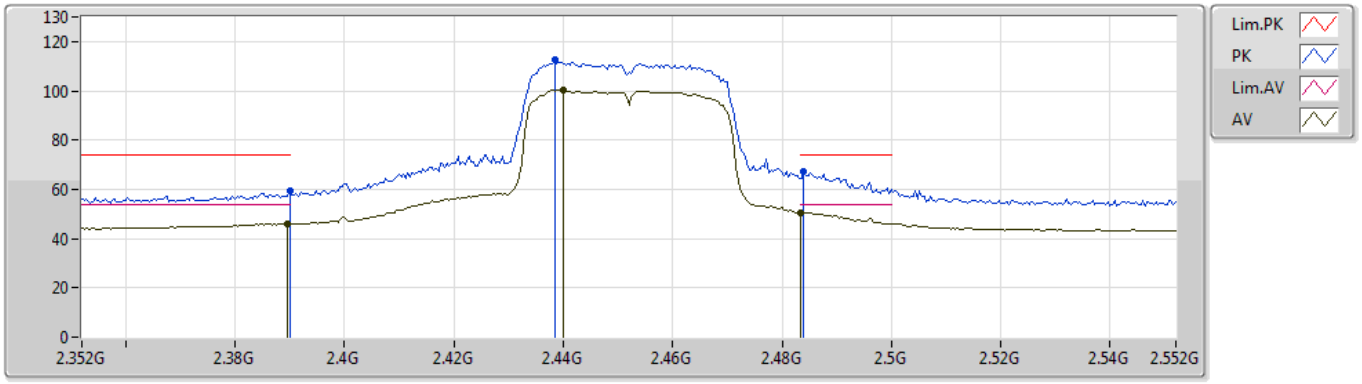
EUT Y_2TX
Setting 20
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.3896G	58.42	74.00	-15.58	30.80	3	Vertical	240	1.15	-	27.62
AV	2.352G	47.86	54.00	-6.14	30.66	3	Vertical	240	1.15	-	17.20
PK	2.4408G	112.59	Inf	-Inf	30.90	3	Vertical	240	1.15	-	81.69
AV	2.4432G	108.29	Inf	-Inf	30.90	3	Vertical	240	1.15	-	77.39
PK	2.484G	67.57	74.00	-6.43	30.96	3	Vertical	240	1.15	-	36.61
AV	2.484G	51.06	54.00	-2.94	30.96	3	Vertical	240	1.15	-	20.10

VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



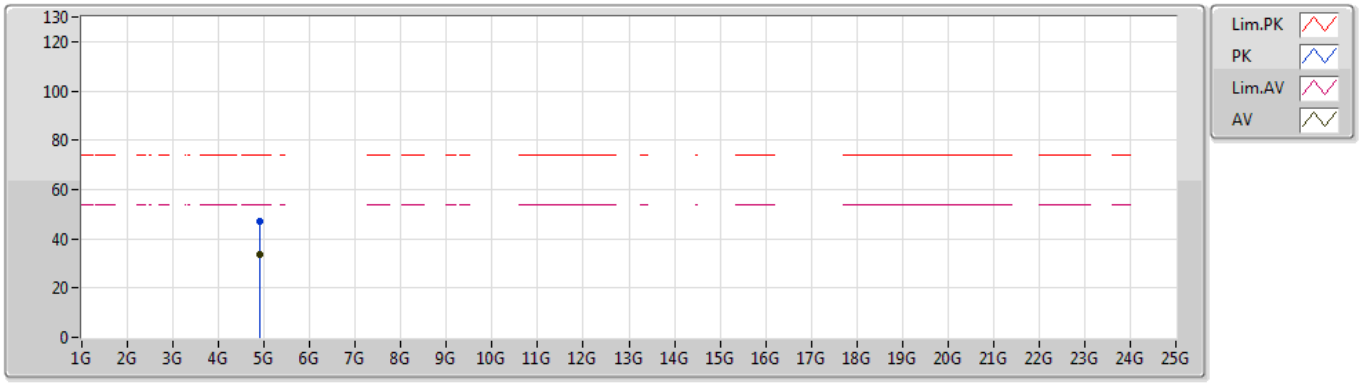
EUT Y_2TX
Setting 20
01-G-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	2.39G	59.31	74.00	-14.69	30.80	3	Horizontal	178	1.46	-	28.51
AV	2.3896G	45.95	54.00	-8.05	30.80	3	Horizontal	178	1.46	-	15.15
PK	2.4384G	112.44	Inf	-Inf	30.90	3	Horizontal	178	1.46	-	81.54
AV	2.44G	100.23	Inf	-Inf	30.90	3	Horizontal	178	1.46	-	69.33
PK	2.484G	66.98	74.00	-7.02	30.96	3	Horizontal	178	1.46	-	36.02
AV	2.4835G	50.71	54.00	-3.29	30.96	3	Horizontal	178	1.46	-	19.75

VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

06/08/2019



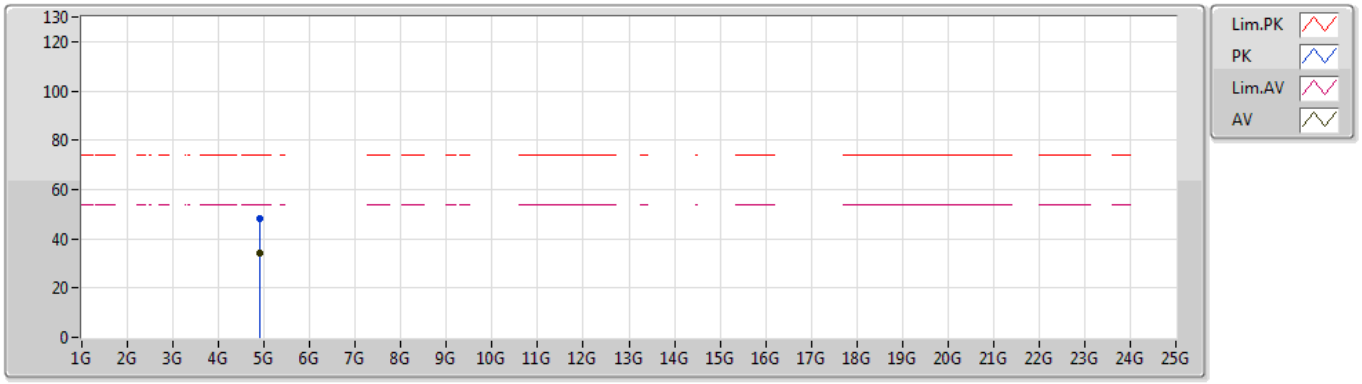
EUT Y_2TX
Setting 20
01-B-4
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.90504G	46.85	74.00	-27.15	3.96	3	Vertical	97	2.02	-	42.89
AV	4.90376G	33.35	54.00	-20.65	3.94	3	Vertical	97	2.02	-	29.41

VHT40-BF_Nss1,(MCS0)_2TX

2452MHz_TX

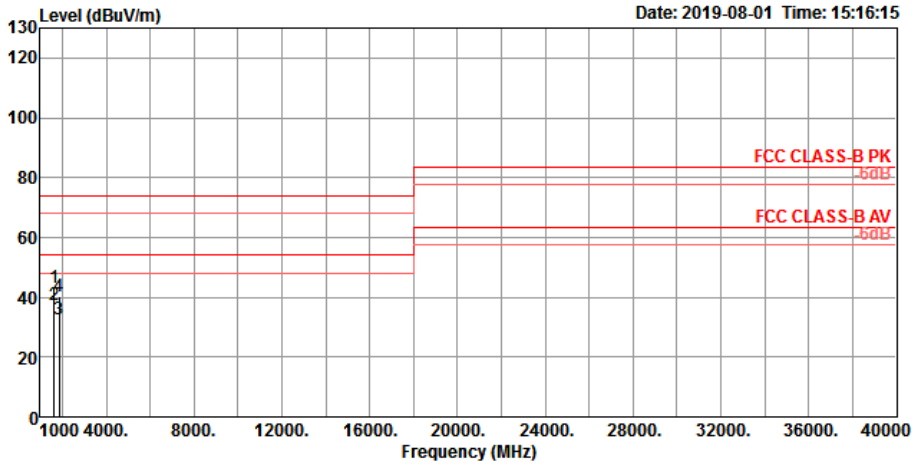
06/08/2019



EUT Y_2TX
Setting 20
01-B-4
FSP

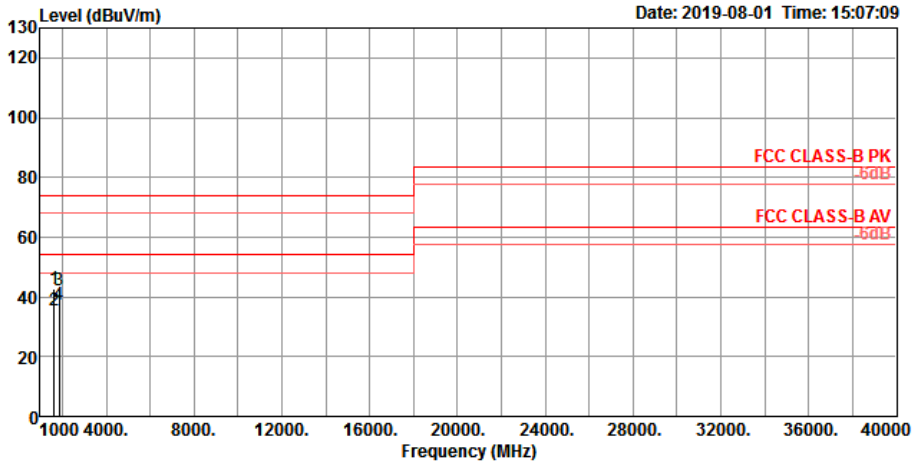
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)
PK	4.90526G	48.26	74.00	-25.74	3.96	3	Horizontal	325	1.30	-	44.30
AV	4.90092G	34.09	54.00	-19.91	3.93	3	Horizontal	325	1.30	-	30.16

RSE Co-location Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1624.78	43.23	74.00	-30.77	51.12	2.32	25.40	35.61	150	187	Peak	HORIZONTAL
2	1624.97	37.61	54.00	-16.39	45.50	2.32	25.40	35.61	150	187	Average	HORIZONTAL
3	1874.99	32.48	54.00	-21.52	39.05	2.51	26.22	35.30	100	201	Average	HORIZONTAL
4	1875.05	40.07	74.00	-33.93	46.64	2.51	26.22	35.30	100	201	Peak	HORIZONTAL

RSE Co-location Result			
Operating Mode	1	**Polarization**	Vertical
Operating Function	Normal Link		



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	1624.92	42.68	74.00	-31.32	50.57	2.32	25.40	35.61	200	177	Peak	VERTICAL
2	1625.04	35.41	54.00	-18.59	43.30	2.32	25.40	35.61	200	177	Average	VERTICAL
3	1874.84	42.30	74.00	-31.70	48.87	2.51	26.22	35.30	166	158	Peak	VERTICAL
4	1874.99	37.46	54.00	-16.54	44.03	2.51	26.22	35.30	166	158	Average	VERTICAL