FCC Test Report

Equipment	:	Wi-Fi Repeater
Brand Name	:	Hughes
Model No.	:	RE2000
FCC ID	:	RAXWE410443
Standard	:	47 CFR FCC Part 15.247
Operating Band	:	2400 MHz – 2483.5 MHz
Function	:	☒ Point-to-multipoint; ☐ Point-to-point
Applicant	:	Arcadyan Technology Corporation No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Manufacturer	:	Arcadyan Technology Corporation No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan

The product sample received on Mar. 09, 2017 and completely tested on Apr. 14, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

Cliff Chang
SPORTON INTERNATIONAL INC.

Testing Laboratory
1190

Table of Contents

Summary of Test Result

Conformance Test Specifications				
Report Clause	**Ref. Std. Clause**	**Description**	**Limit**	**Result**
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Maximum Conducted Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied

Revision History

Report No.	Version	Description	Issued Date
FR730945AA	Rev. 01	Initial issue of report	Apr. 25, 2017

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

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

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- 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.	Chain		Brand	Part No.	Type	Connector	Gain (dBi)	
	2.4GHz	5GHz					2.4GHz	5GHz
1	1	4	Arcadyan	120800035600J	PCB Dipole	I-PEX	3.28	3.55
2	2	3	Arcadyan	120800035900J	PCB Dipole	I-PEX	3.28	3.55
3	3	2	Arcadyan	120800035700J	PCB Dipole	I-PEX	3.28	3.55
4	4	1	Arcadyan	120800035800J	PCB Dipole	I-PEX	3.28	3.55

Note: The EUT has four antennas.

For 2.4GHz function:

Chain 1 ~ Chain 4 connect to port 1 ~ port 4

For IEEE 802.11b/g/n/ac mode (4TX/4RX)

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

For 5GHz function:

Chain 1 ~ Chain 4 connect to port 1 ~ port 4

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

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

1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)
802.11b	0.969	0.137
802.11g	0.818	0.872
802.11ac VHT20	0.806	0.937
802.11ac VHT20-BF	0.99	0.044
802.11ac VHT40	0.663	1.785
802.11ac VHT40-BF	0.981	0.083

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming for IEEE 802 11n/ac in 2.4GHz/5GHz	☐	Without beamforming

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 558074 D01 v04
- FCC KDB 662911 D01 v02r01
- FCC KDB 644545 D01 v01r02
- FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location							
☐	HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.			
		TEL	:	886-3-327-3456	FAX	:	886-3-318-0055
☒	JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.			
		TEL	:	886-3-656-9065	FAX	:	886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Gino Huang	25°C / 53%	Mar. 24, 2017 ~ Apr. 05, 2017
Radiated (Below 1GHz)	03CH01-CB	Paul Chen	22°C / 54%	Mar. 27, 2017
Radiated (Above 1GHz)	03CH01-CB	Steven Liang	22°C / 54%	Mar. 27, 2017 ~ Apr. 06, 2017
AC Conduction	CO01-CB	Edison Lin	23°C / 57%	Apr. 14, 2017

Test site Designation No. TW0006 with FCC.
Test site registered number IC 4086D 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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_(1Mbps)_4TX	-
2412MHz	1F
2437MHz	1F
2462MHz	1E
802.11g_(6Mbps)_4TX	-
2412MHz	1C
2437MHz	28
2462MHz	17
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2412MHz	1D
2437MHz	28
2462MHz	19
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2422MHz	1A
2437MHz	20
2452MHz	1B
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2412MHz	24
2437MHz	47
2462MHz	21
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2422MHz	23
2437MHz	30
2452MHz	25

Note:
- VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- There are two modes of EUT for 802.11n/ac in 2.4GHz/5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.

2.2 The Worst Case Measurement Configuration

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

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
1	EUT in Y axis

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	EUT in Y axis - WLAN 2.4GHz + WLAN 5GHz
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
Refer to Sporton Test Report No.: FA730945 for Co-location RF Exposure Evaluation.	

Note: The EUT can only use Y axis position.

2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated 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 98%.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
No.	**Equipment Name**	**Brand Name**	**Model Name**	**Rating**
1	Adapter	APD	WB-18D12FU	INPUT: 100-240V ~ 50-60Hz, 0.5A Max. OUTPUT: 12V, 1.5A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*3	DELL	E6430	DoC

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E6430	DoC
2	NB*2	Apple	Mac Book	DoC

For Test Site No: 03CH01-CB (above 1GHz)
(For Non-beamforming mode)

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	DoC

(For beamforming mode)

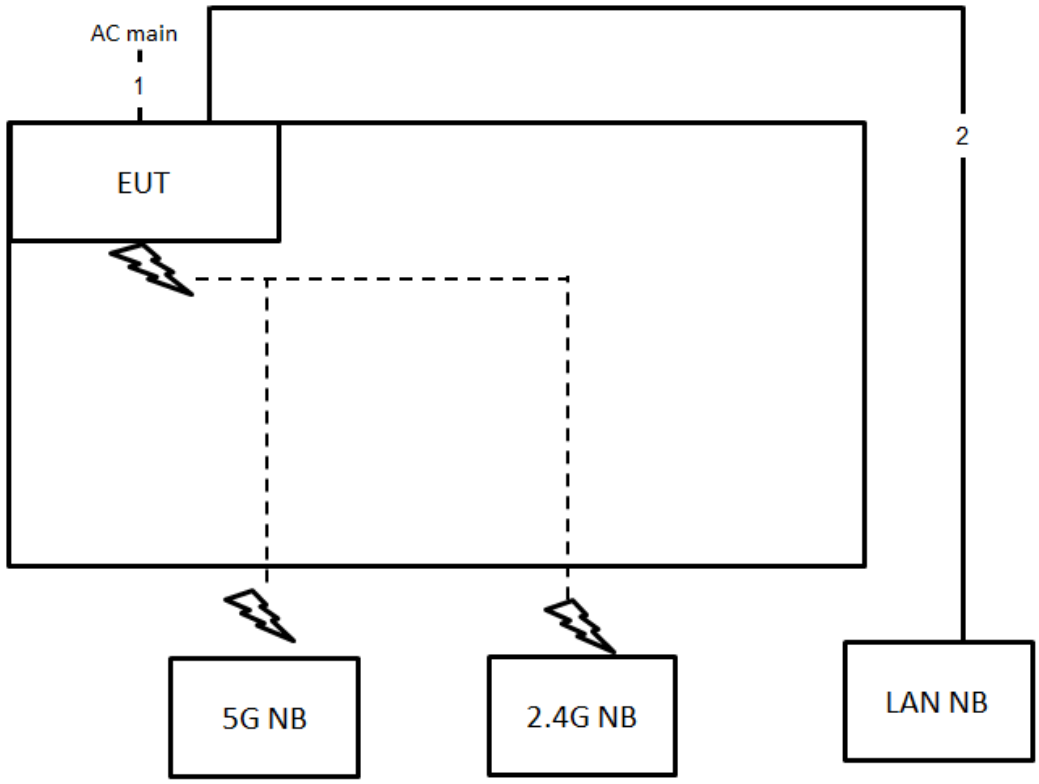
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB*2	DELL	E4300	DoC
2	RX Device	Hughes	RE2000	RAXWE410443

For Test Site No: TH01-CB

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	NB	DELL	E4300	DoC

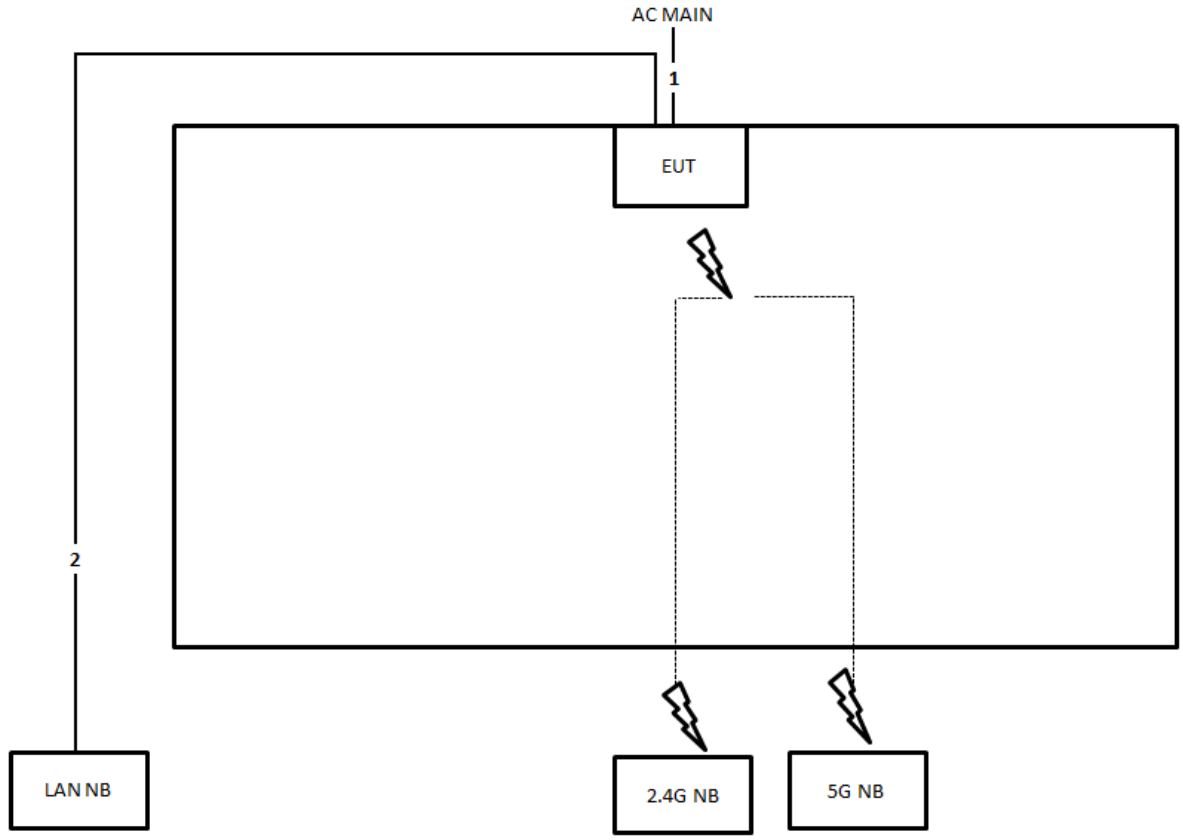
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



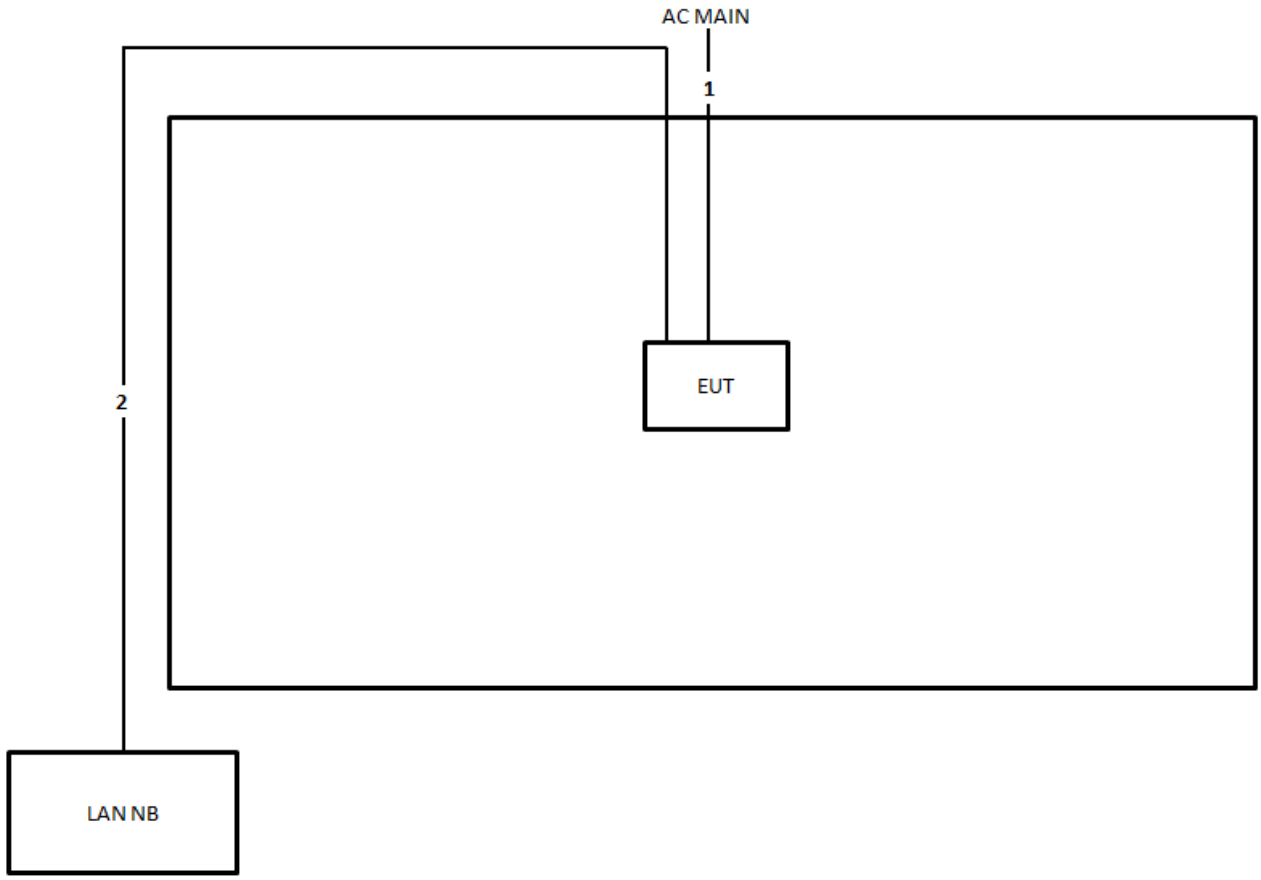
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



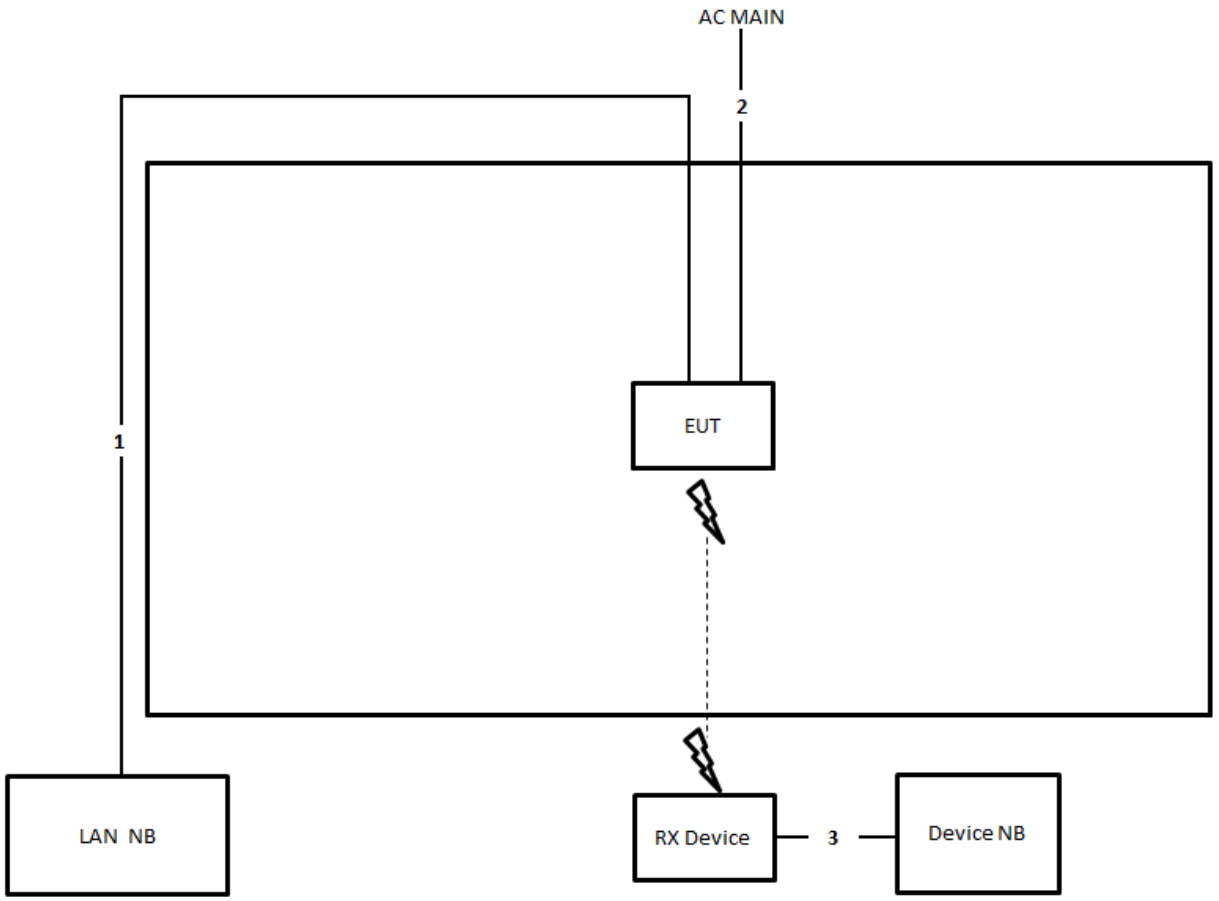
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m

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



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

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



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

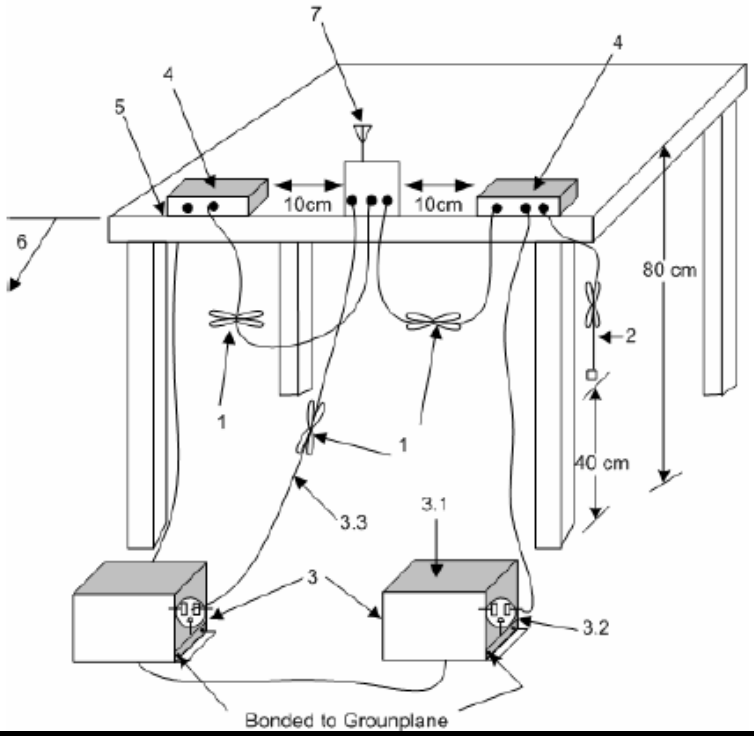
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
☒ 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



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.

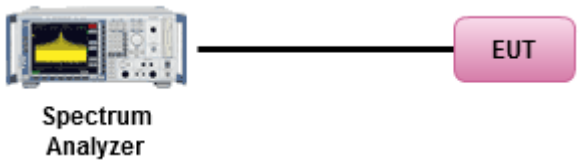
3.2.2 Measuring Instruments

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 8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 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 9.1.1 Option 1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
	☐ Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
	RF power meter and average over on/off periods with duty factor or gated trigger
	☒ Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
	☐ Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
▪ 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

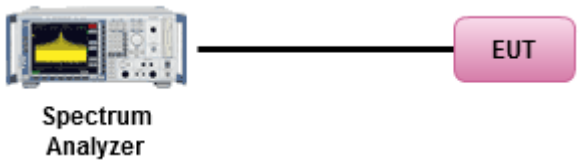
3.4.2 Measuring Instruments

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 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).	
	[duty cycle ≥ 98% or external video / power trigger]	
	☐ Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-2 (slow sweep speed)	
	duty cycle < 98% and average over on/off periods with duty factor	
	☐ Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging).	
	☐ Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)	
▪ 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 (dB)**
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak 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.	

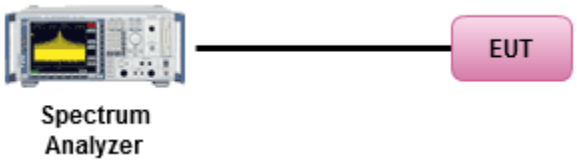
3.5.2 Measuring Instruments

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 11 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.

3.6.2 Measuring Instruments

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

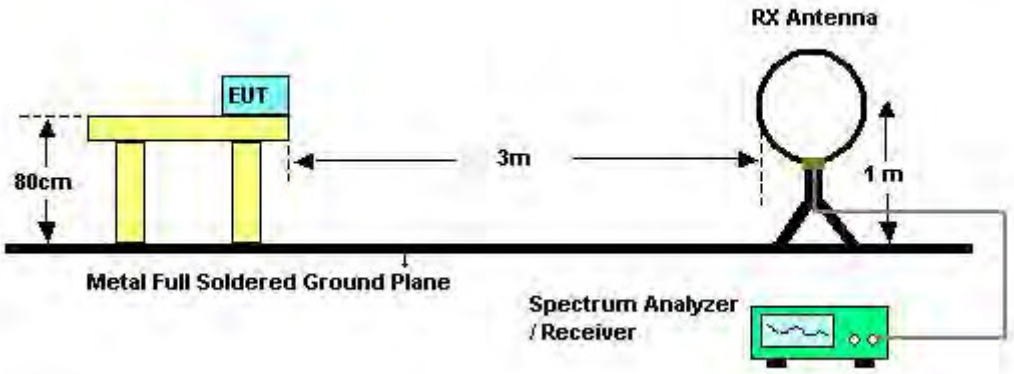
3.6.3 Test Procedures

Test Method		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ Refer as ANSI C63.10, clause 6.9.2.2 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 12 for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)
		☐ Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
		☒ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).
		☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		☒ Refer as FCC KDB 558074, clause 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 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 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.	
	▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).	
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.		
	▪ 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.	

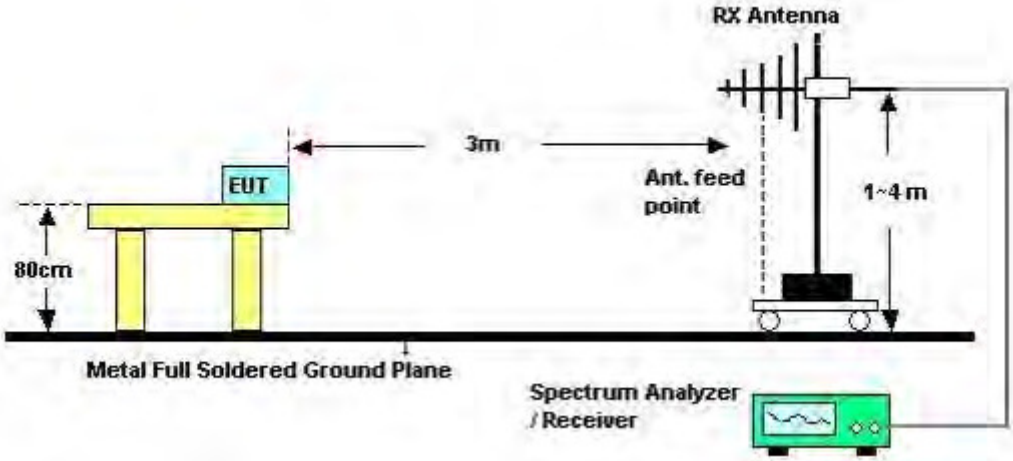
3.6.4 Test Setup

Transmitter Radiated Emissions

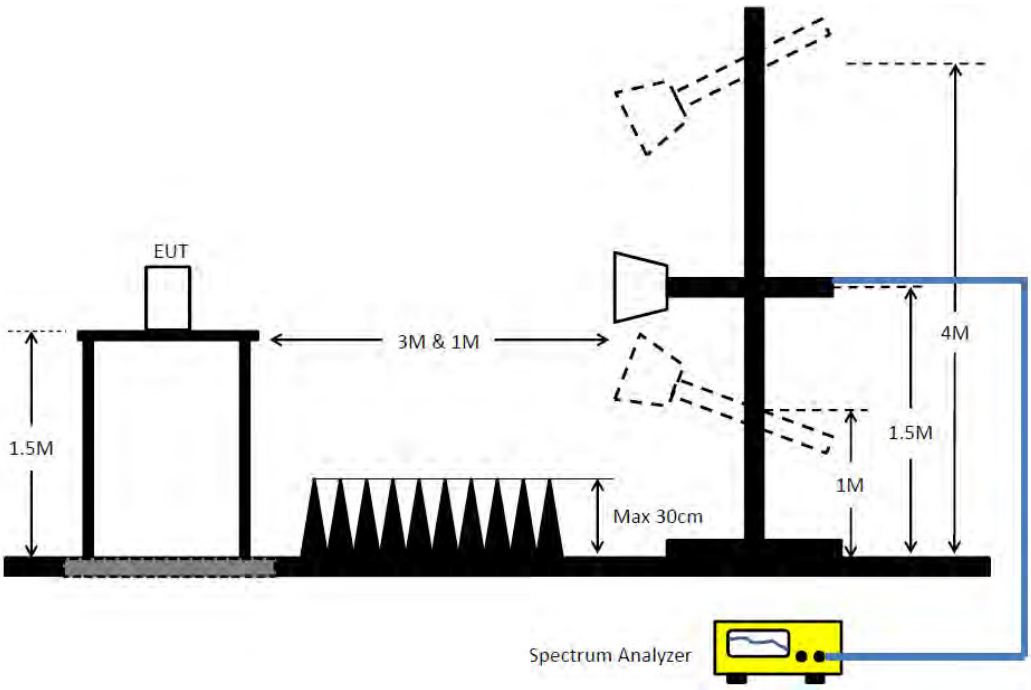
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Transmitter Radiated Unwanted Emissions (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.

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 13, 2017	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jun. 28, 2016	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 21, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-l0-7	N/A	N/A	Radiation (03CH01-CB)

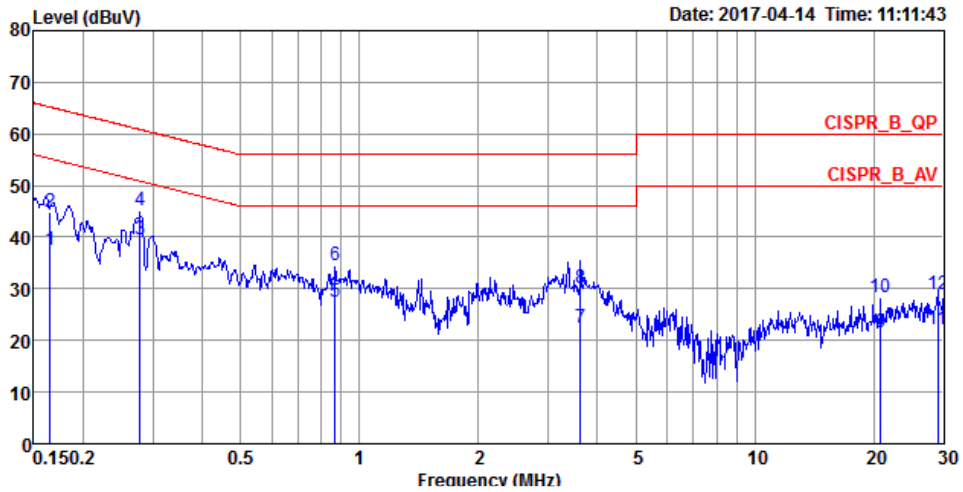
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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

"*" Calibration Interval of instruments listed above is two years.

N.C.R means Non-Calibration required.

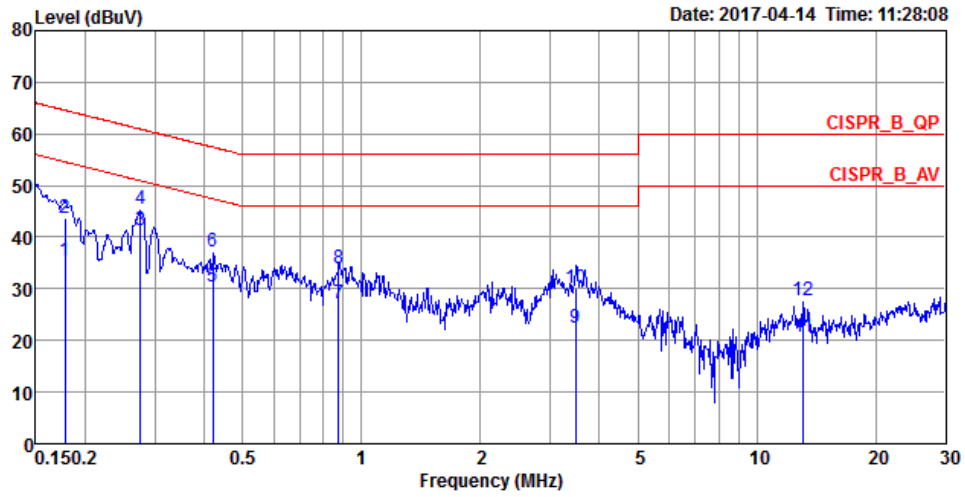
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1647	37.60	-17.62	55.22	27.61	9.95	0.04	Average	NEUTRAL
2	0.1647	44.98	-20.24	65.22	34.99	9.95	0.04	QP	NEUTRAL
3	0.2788	39.50	-11.35	50.85	29.48	9.97	0.05	Average	NEUTRAL
4	0.2788	45.02	-15.83	60.85	35.00	9.97	0.05	QP	NEUTRAL
5	0.8664	27.60	-18.40	46.00	17.55	9.99	0.06	Average	NEUTRAL
6	0.8664	34.41	-21.59	56.00	24.36	9.99	0.06	QP	NEUTRAL
7	3.6225	22.41	-23.59	46.00	12.23	10.06	0.12	Average	NEUTRAL
8	3.6225	30.04	-25.96	56.00	19.86	10.06	0.12	QP	NEUTRAL
9	20.8137	21.46	-28.54	50.00	10.91	10.30	0.25	Average	NEUTRAL
10	20.8137	28.37	-31.63	60.00	17.82	10.30	0.25	QP	NEUTRAL
11	29.0613	22.27	-27.73	50.00	11.64	10.34	0.29	Average	NEUTRAL
12	29.0613	29.05	-30.95	60.00	18.42	10.34	0.29	QP	NEUTRAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1777	35.41	-19.18	54.59	25.42	9.94	0.05	Average	LINE
2	0.1777	43.75	-20.84	64.59	33.76	9.94	0.05	QP	LINE
3	0.2759	41.23	-9.71	50.94	31.27	9.91	0.05	Average	LINE
4	0.2759	45.61	-15.33	60.94	35.65	9.91	0.05	QP	LINE
5	0.4215	30.28	-17.14	47.42	20.35	9.89	0.04	Average	LINE
6	0.4215	37.14	-20.28	57.42	27.21	9.89	0.04	QP	LINE
7	0.8757	27.13	-18.87	46.00	17.11	9.96	0.06	Average	LINE
8	0.8757	34.09	-21.91	56.00	24.07	9.96	0.06	QP	LINE
9	3.4722	22.38	-23.62	46.00	12.30	9.96	0.12	Average	LINE
10	3.4722	30.03	-25.97	56.00	19.95	9.96	0.12	QP	LINE
11	13.1269	20.70	-29.30	50.00	10.37	10.12	0.21	Average	LINE
12	13.1269	27.63	-32.37	60.00	17.30	10.12	0.21	QP	LINE

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11b_(1Mbps)_4TX	-	-	-	-	-
2.4-2.4835GHz	9.1M	14.093M	14M1G1D	9.025M	13.518M
802.11g_(6Mbps)_4TX	-	-	-	-	-
2.4-2.4835GHz	15.625M	23.038M	23M0D1D	14.45M	16.317M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	16.25M	22.264M	22M3D1D	13.525M	17.516M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	35.1M	36.032M	36M0D1D	33.7M	35.782M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	16.275M	27.086M	27M1D1D	15M	17.491M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-
2.4-2.4835GHz	35.1M	35.982M	36M0D1D	32.55M	35.832M

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

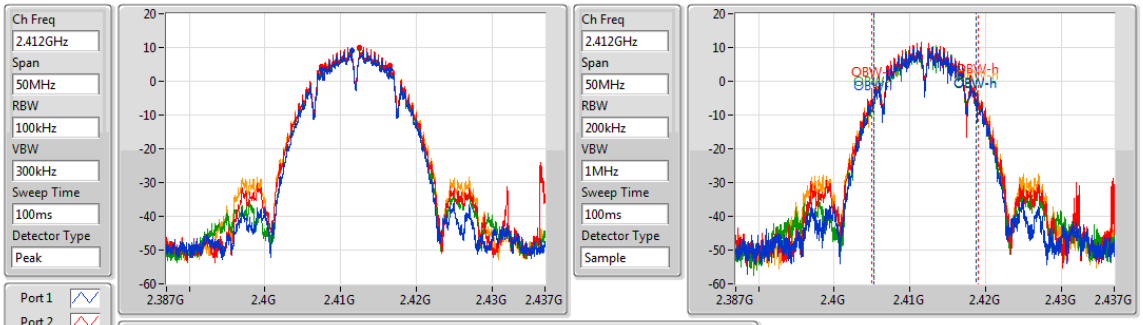
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	9.025M	13.593M	9.05M	13.943M	9.025M	13.593M	9.1M	14.068M
2437MHz	Pass	500k	9.025M	13.643M	9.075M	14.043M	9.05M	13.543M	9.075M	14.093M
2462MHz	Pass	500k	9.05M	13.518M	9.05M	13.568M	9.025M	13.668M	9.05M	13.893M
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	14.9M	16.367M	14.925M	16.392M	15.025M	16.367M	15.075M	16.467M
2437MHz	Pass	500k	14.95M	17.541M	15.075M	17.416M	15.1M	23.038M	15.05M	18.691M
2462MHz	Pass	500k	15.625M	16.317M	15.425M	16.317M	14.45M	16.342M	15.025M	16.392M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	17.566M	15.075M	17.516M	16.25M	17.541M	15.075M	17.616M
2437MHz	Pass	500k	15.05M	18.966M	15.1M	18.866M	15.675M	22.264M	15.05M	20.265M
2462MHz	Pass	500k	15.05M	17.541M	15.05M	17.541M	15.675M	17.516M	13.525M	17.541M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.05M	36.032M	35.1M	35.832M	35M	35.832M	35.05M	35.882M
2437MHz	Pass	500k	35M	36.032M	35M	35.882M	35.05M	35.982M	35M	35.932M
2452MHz	Pass	500k	35.05M	35.832M	35.1M	35.832M	34.95M	35.782M	33.7M	35.832M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.1M	17.516M	15.05M	17.541M	16.275M	17.491M	15.1M	17.591M
2437MHz	Pass	500k	15.1M	18.816M	15M	18.966M	16.25M	27.086M	15.1M	19.84M
2462MHz	Pass	500k	15.45M	17.541M	15.65M	17.541M	15.65M	17.516M	15.1M	17.541M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	33.8M	35.882M	35.05M	35.882M	32.6M	35.882M	32.55M	35.832M
2437MHz	Pass	500k	33.8M	35.932M	35.05M	35.932M	35M	35.982M	35M	35.982M
2452MHz	Pass	500k	33.75M	35.932M	33.8M	35.932M	35M	35.832M	35.1M	35.882M

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

802.11b_(1Mbps)_4TX **EBW**

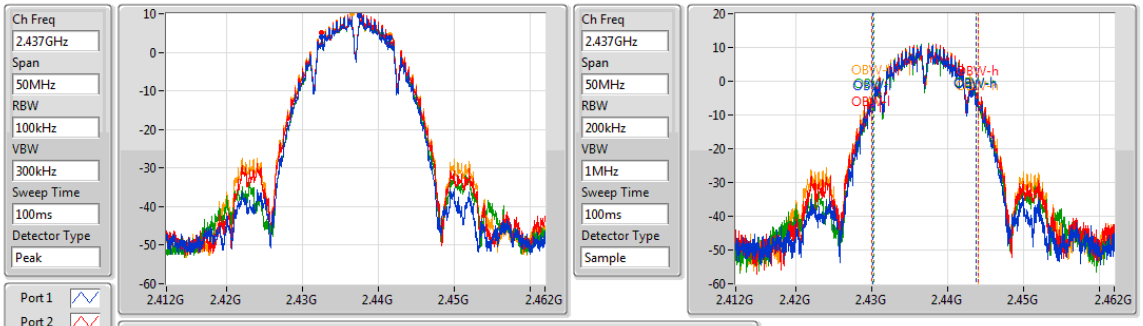
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.025M	2.4075G	2.416525G	13.593M	2.405178G	2.418772G	500k	1
9.05M	2.407475G	2.416525G	13.943M	2.405028G	2.418972G	500k	2
9.025M	2.4075G	2.416525G	13.593M	2.405203G	2.418797G	500k	3
9.1M	2.40745G	2.41655G	14.068M	2.405003G	2.419071G	500k	4

802.11b_(1Mbps)_4TX **EBW**

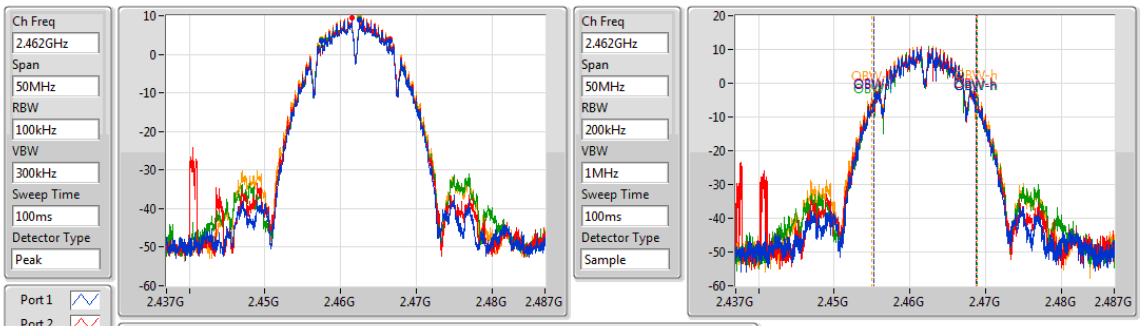
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.025M	2.432475G	2.4415G	13.643M	2.430153G	2.443797G	500k	1
9.075M	2.432475G	2.44155G	14.043M	2.430003G	2.444046G	500k	2
9.05M	2.432475G	2.441525G	13.543M	2.430278G	2.443822G	500k	3
9.075M	2.43245G	2.441525G	14.093M	2.429929G	2.444021G	500k	4

802.11b_(1Mbps)_4TX **EBW**

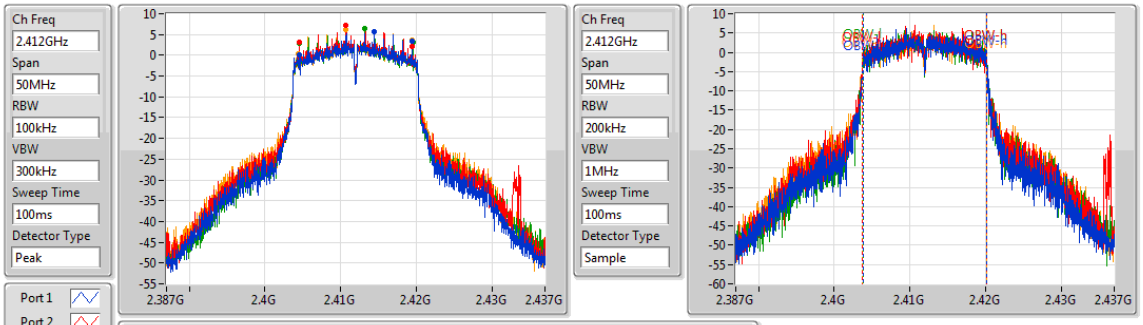
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
9.05M	2.457475G	2.466525G	13.518M	2.455228G	2.468747G	500k	1
9.05M	2.45745G	2.4665G	13.568M	2.455178G	2.468747G	500k	2
9.025M	2.4575G	2.466525G	13.668M	2.455203G	2.468872G	500k	3
9.05M	2.457475G	2.466525G	13.893M	2.455028G	2.468922G	500k	4

802.11g_(6Mbps)_4TX **EBW**

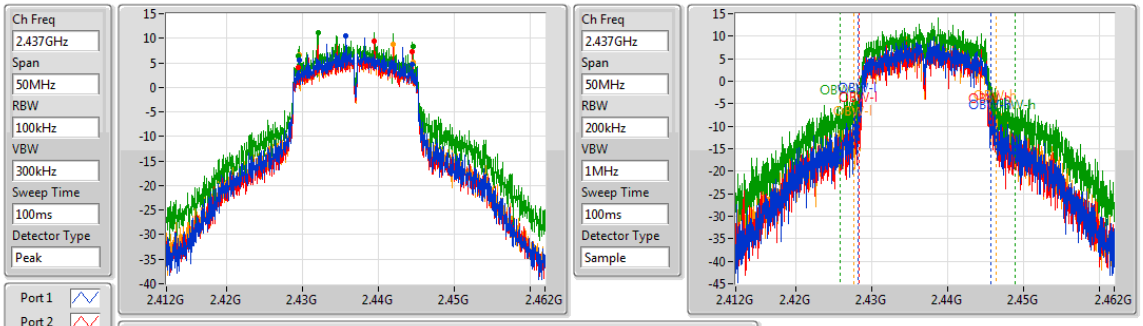
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.9M	2.404575G	2.419475G	16.367M	2.403804G	2.420171G	500k	1
14.925M	2.404525G	2.41945G	16.392M	2.403779G	2.420171G	500k	2
15.025M	2.4045G	2.419525G	16.367M	2.403804G	2.420171G	500k	3
15.075M	2.404425G	2.4195G	16.467M	2.403729G	2.420196G	500k	4

802.11g_(6Mbps)_4TX **EBW**

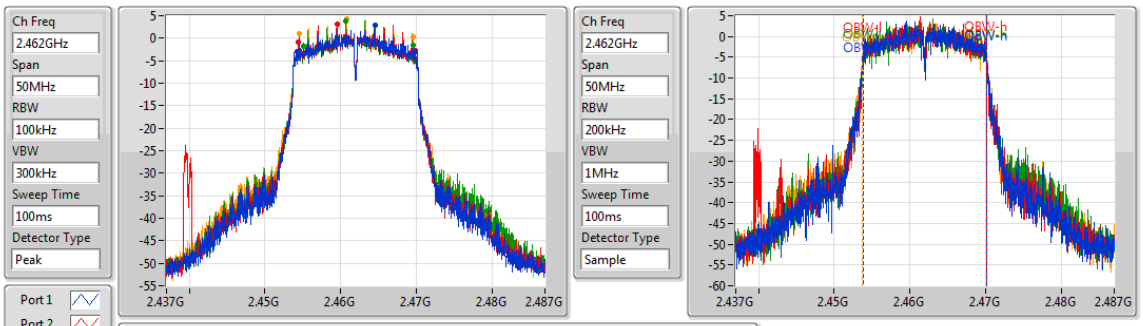
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.95M	2.42955G	2.4445G	17.541M	2.428179G	2.445721G	500k	1
15.075M	2.429425G	2.4445G	17.416M	2.428279G	2.445696G	500k	2
15.1M	2.429425G	2.444525G	23.038M	2.425856G	2.448894G	500k	3
15.05M	2.4295G	2.44455G	18.691M	2.427655G	2.446345G	500k	4

802.11g_(6Mbps)_4TX **EBW**

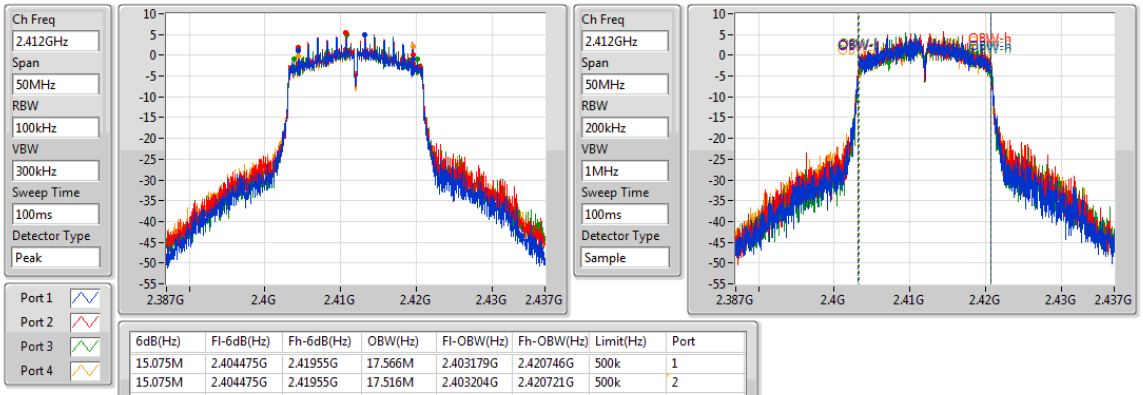
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.625M	2.45425G	2.469875G	16.317M	2.453804G	2.470121G	500k	1
15.425M	2.45445G	2.469875G	16.317M	2.453829G	2.470146G	500k	2
14.45M	2.4551G	2.46955G	16.342M	2.453804G	2.470146G	500k	3
15.025M	2.4545G	2.469525G	16.392M	2.453779G	2.470171G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

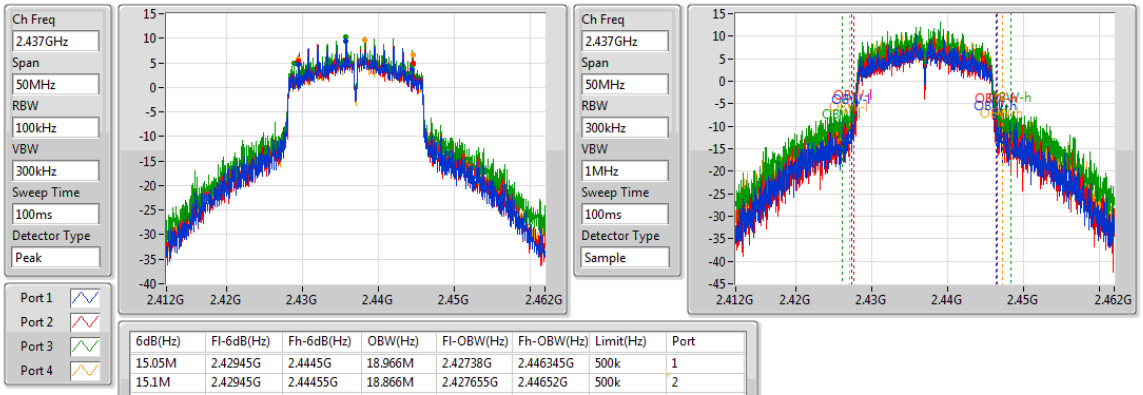
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.075M	2.404475G	2.41955G	17.566M	2.403179G	2.420746G	500k	1
15.075M	2.404475G	2.41955G	17.516M	2.403204G	2.420721G	500k	2
16.25M	2.403875G	2.420125G	17.541M	2.403229G	2.420771G	500k	3
15.075M	2.40445G	2.419525G	17.616M	2.403154G	2.420771G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

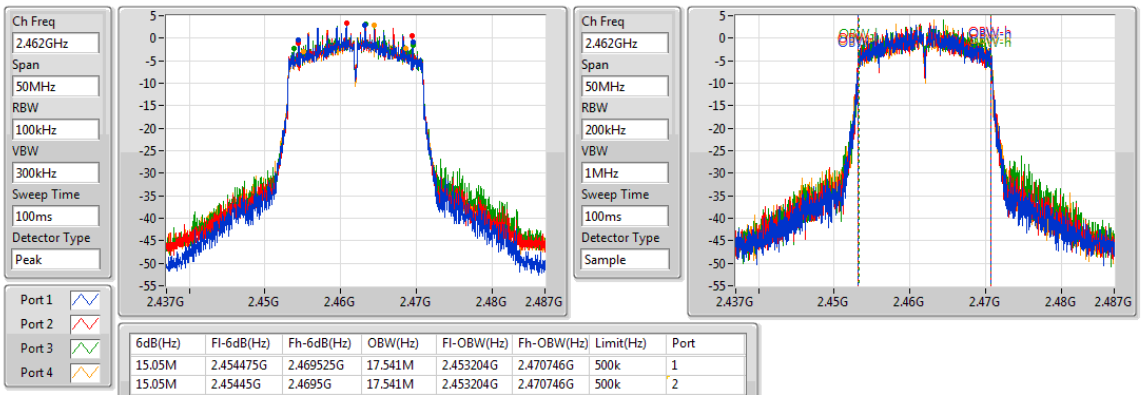
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.42945G	2.4445G	18.966M	2.42738G	2.446345G	500k	1
15.1M	2.42945G	2.44455G	18.866M	2.427655G	2.44652G	500k	2
15.675M	2.42885G	2.444525G	22.264M	2.426105G	2.448369G	500k	3
15.05M	2.429475G	2.444525G	20.265M	2.427005G	2.44727G	500k	4

802.11ac VHT20_Nss1,(MCS0)_4TX **EBW**

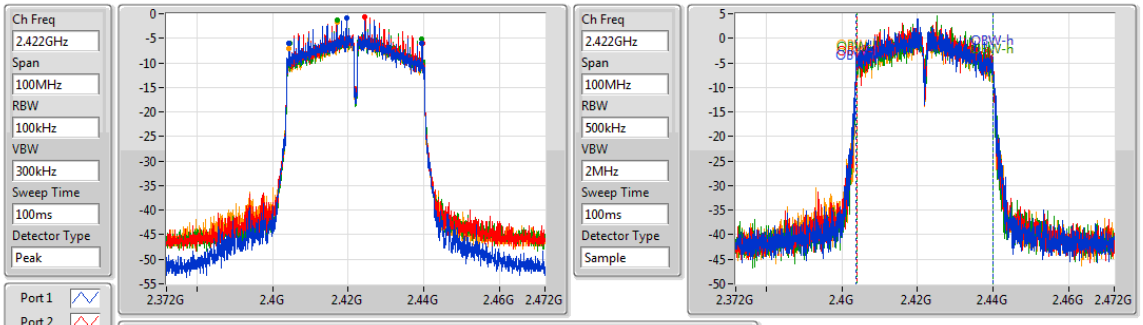
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.05M	2.454475G	2.469525G	17.541M	2.453204G	2.470746G	500k	1
15.05M	2.45445G	2.4695G	17.541M	2.453204G	2.470746G	500k	2
15.675M	2.453875G	2.46955G	17.516M	2.453229G	2.470746G	500k	3
13.525M	2.4551G	2.468625G	17.541M	2.453204G	2.470746G	500k	4

802.11ac VHT40_Nss1,(MCS0)_4TX EBW

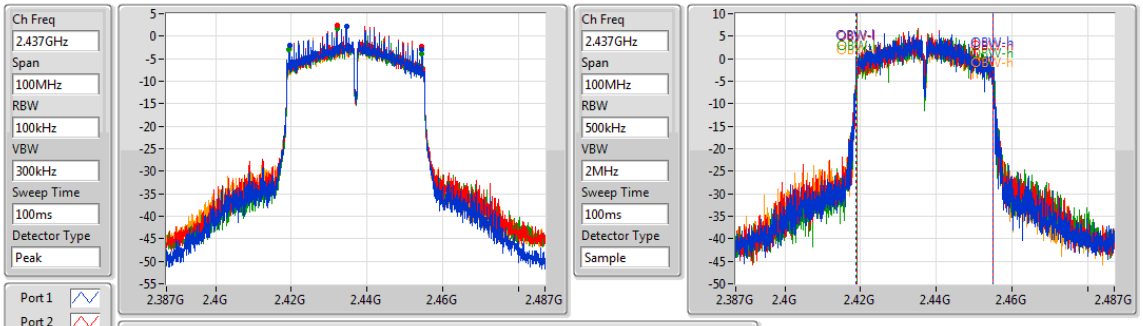
2422MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.40445G	2.4395G	36.032M	2.403859G	2.439891G	500k	1
35.1M	2.40445G	2.43955G	35.832M	2.404059G	2.439891G	500k	2
35M	2.4045G	2.4395G	35.832M	2.404009G	2.439841G	500k	3
35.05M	2.40445G	2.4395G	35.882M	2.404009G	2.439891G	500k	4

802.11ac VHT40_Nss1,(MCS0)_4TX EBW

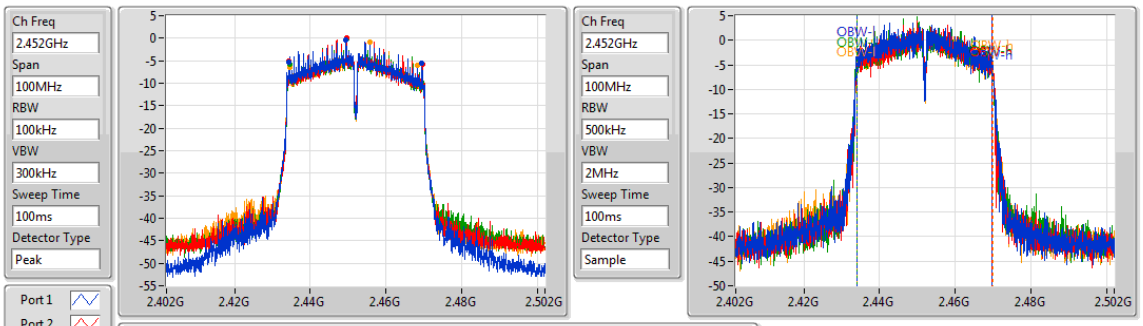
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35M	2.4195G	2.4545G	36.032M	2.418859G	2.454891G	500k	1
35M	2.4195G	2.4545G	35.882M	2.419009G	2.454891G	500k	2
35.05M	2.41945G	2.4545G	35.982M	2.419009G	2.454991G	500k	3
35M	2.4195G	2.4545G	35.932M	2.418959G	2.454891G	500k	4

802.11ac VHT40_Nss1,(MCS0)_4TX EBW

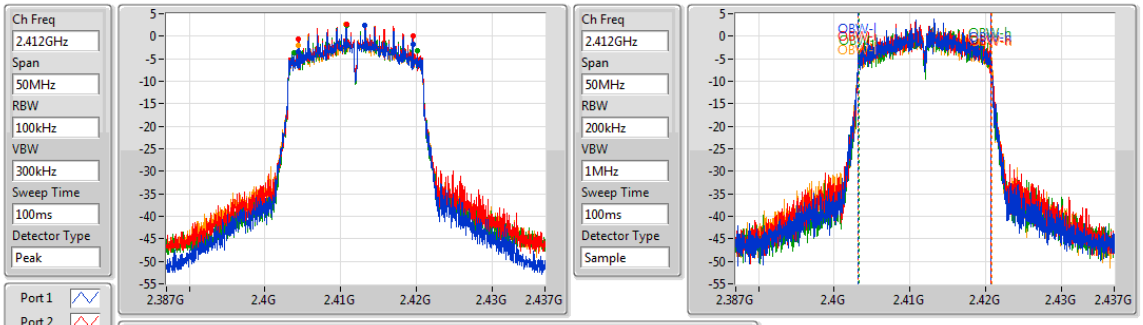
2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.05M	2.43445G	2.4695G	35.832M	2.433959G	2.469791G	500k	1
35.1M	2.43445G	2.46955G	35.832M	2.433959G	2.469791G	500k	2
34.95M	2.43455G	2.4695G	35.782M	2.433959G	2.469741G	500k	3
33.7M	2.43455G	2.46825G	35.832M	2.434059G	2.469891G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

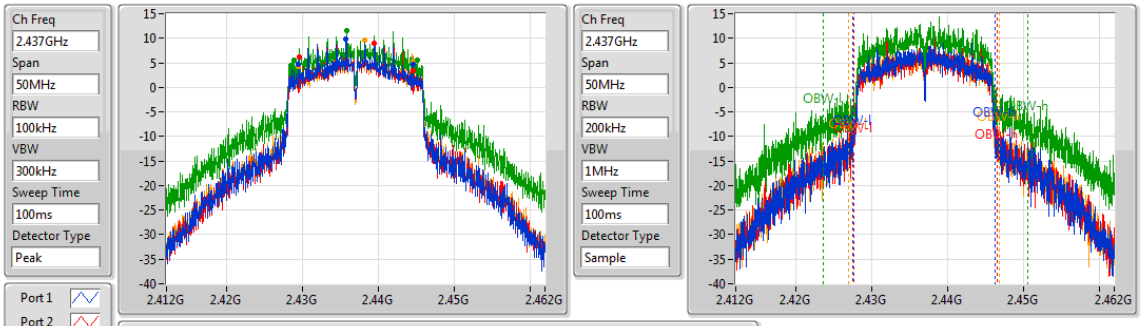
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.404425G	2.419525G	17.516M	2.403204G	2.420721G	500k	1
15.05M	2.404475G	2.419525G	17.541M	2.403204G	2.420746G	500k	2
16.275M	2.40385G	2.420125G	17.491M	2.403254G	2.420746G	500k	3
15.1M	2.40445G	2.41955G	17.591M	2.403204G	2.420796G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

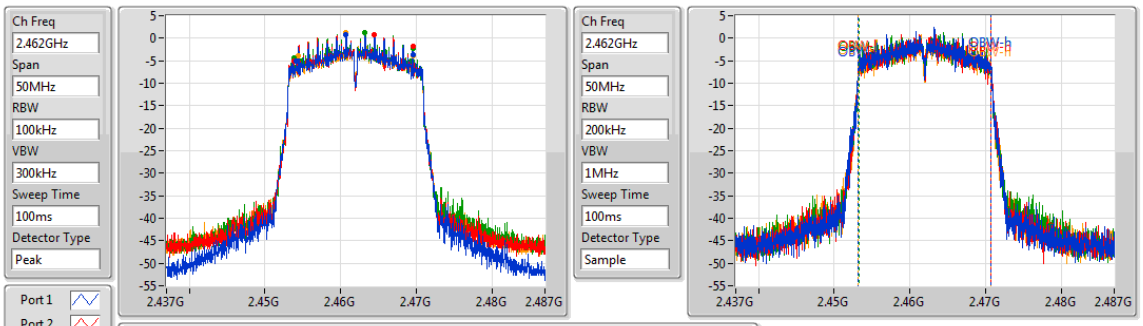
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.1M	2.42945G	2.44455G	18.816M	2.42743G	2.446245G	500k	1
15M	2.429525G	2.444525G	18.966M	2.42753G	2.446495G	500k	2
16.25M	2.428875G	2.445125G	27.086M	2.423557G	2.450643G	500k	3
15.1M	2.42945G	2.44455G	19.84M	2.42693G	2.44677G	500k	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **EBW**

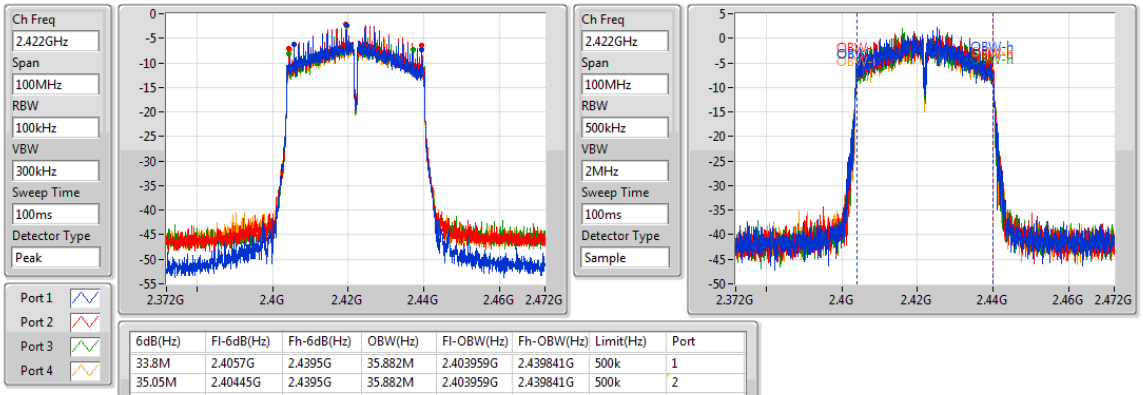
2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.45M	2.4541G	2.46955G	17.541M	2.453204G	2.470746G	500k	1
15.65M	2.453875G	2.469525G	17.541M	2.453204G	2.470746G	500k	2
15.65M	2.453875G	2.469525G	17.516M	2.453229G	2.470746G	500k	3
15.1M	2.45445G	2.46955G	17.541M	2.453204G	2.470746G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

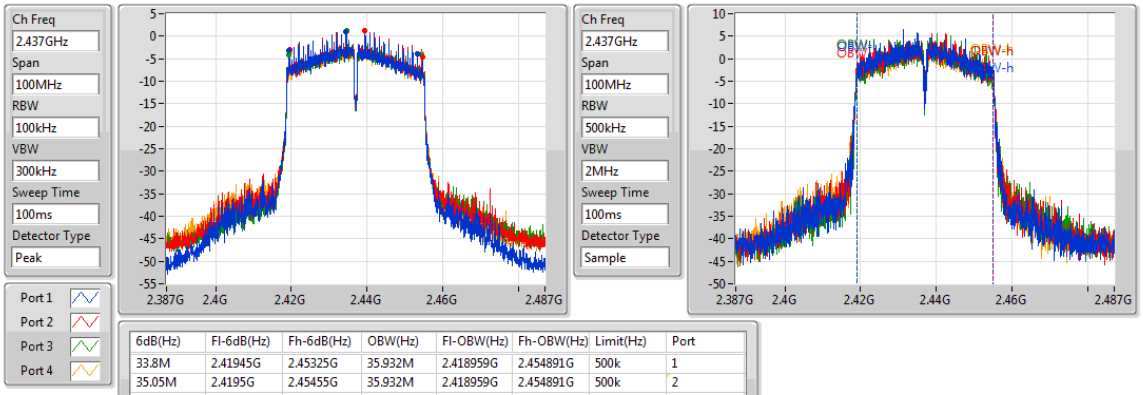
2422MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.8M	2.4057G	2.4395G	35.882M	2.403959G	2.439841G	500k	1
35.05M	2.40445G	2.4395G	35.882M	2.403959G	2.439841G	500k	2
32.6M	2.40445G	2.43705G	35.882M	2.404009G	2.439891G	500k	3
32.55M	2.4045G	2.43705G	35.832M	2.404059G	2.439891G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

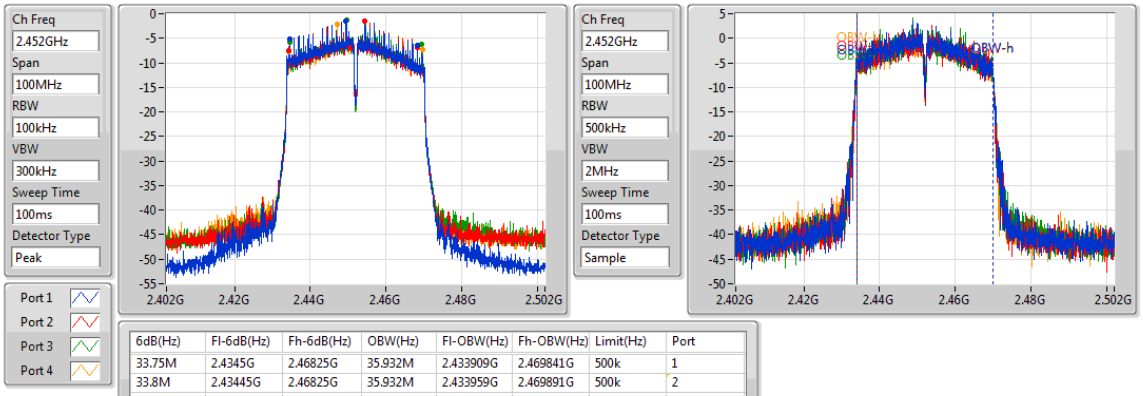
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.8M	2.41945G	2.45325G	35.932M	2.418959G	2.454891G	500k	1
35.05M	2.4195G	2.45455G	35.932M	2.418959G	2.454891G	500k	2
35M	2.41945G	2.45445G	35.982M	2.418909G	2.454891G	500k	3
35M	2.4195G	2.4545G	35.982M	2.418959G	2.454941G	500k	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **EBW**

2452MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
33.75M	2.4345G	2.46825G	35.932M	2.433909G	2.469841G	500k	1
33.8M	2.43445G	2.46825G	35.932M	2.433959G	2.469891G	500k	2
35M	2.4345G	2.4695G	35.832M	2.434009G	2.469841G	500k	3
35.1M	2.43445G	2.46955G	35.882M	2.434009G	2.469891G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_4TX	-	-
2.4-2.4835GHz	25.07	0.32137
802.11g_(6Mbps)_4TX	-	-
2.4-2.4835GHz	26.09	0.40644
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	25.93	0.39174
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	20.77	0.11940
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	26.30	0.42658
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-
2.4-2.4835GHz	19.91	0.09795

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.28	18.43	19.37	18.97	19.28	25.05	30.00
2437MHz	Pass	3.28	18.66	19.19	18.95	19.35	25.07	30.00
2462MHz	Pass	3.28	18.34	18.93	18.82	19.19	24.85	30.00
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.28	16.2	16.79	16.43	16.44	22.49	30.00
2437MHz	Pass	3.28	20.15	19.48	20.8	19.71	26.09	30.00
2462MHz	Pass	3.28	14.16	14.22	14.02	14.21	20.17	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.28	15.52	15.74	15.53	15.27	21.54	30.00
2437MHz	Pass	3.28	19.92	19.67	20.42	19.57	25.93	30.00
2462MHz	Pass	3.28	13.82	13.85	13.87	13.54	19.79	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.28	11.88	12.26	11.60	11.41	17.82	30.00
2437MHz	Pass	3.28	14.90	15.02	14.55	14.50	20.77	30.00
2452MHz	Pass	3.28	12.75	12.32	12.41	12.15	18.43	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.30	13.13	13.51	13.08	12.78	19.15	26.70
2437MHz	Pass	9.30	19.91	19.14	21.86	19.68	26.30	26.70
2462MHz	Pass	9.30	11.97	12.05	12.10	11.61	17.96	26.70
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.30	10.42	10.65	10.44	10.03	16.41	26.70
2437MHz	Pass	9.30	14.04	14.17	13.64	13.67	19.91	26.70
2452MHz	Pass	9.30	11.62	11.34	12.39	10.99	17.64	26.70

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

Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_4TX	-
2.4-2.4835GHz	-5.63
802.11g_(6Mbps)_4TX	-
2.4-2.4835GHz	-1.43
802.11ac VHT20_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-2.12
802.11ac VHT40_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-9.04
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-1.37
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
2.4-2.4835GHz	-9.85

RBW=3kHz.

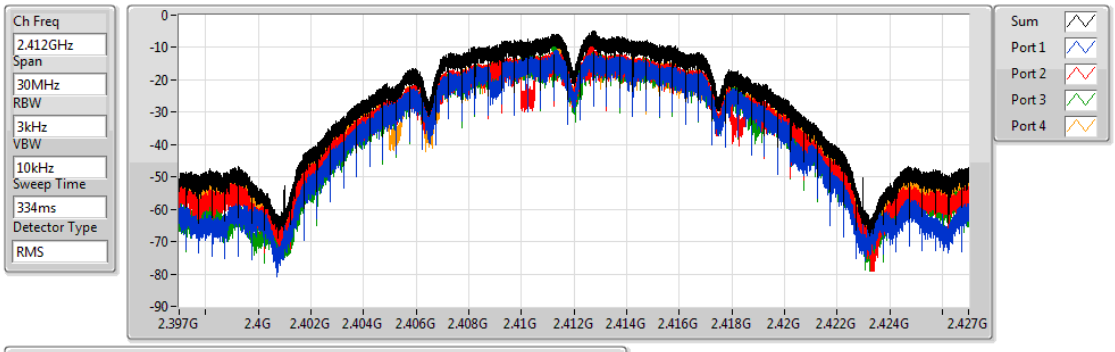
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.30	-11.62	-10.65	-10.6	-11.34	-5.63	4.70
2437MHz	Pass	9.30	-11.8	-10.95	-11.17	-11.27	-5.80	4.70
2462MHz	Pass	9.30	-11.57	-11.61	-11.65	-11.43	-6.00	4.70
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.30	-10.74	-10.53	-11.34	-11.39	-5.81	4.70
2437MHz	Pass	9.30	-7.19	-7.11	-6.12	-7.32	-1.43	4.70
2462MHz	Pass	9.30	-13.23	-13.32	-13.22	-12.18	-8.08	4.70
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.30	-11.23	-10.87	-10.94	-11.69	-6.43	4.70
2437MHz	Pass	9.30	-6.81	-7.32	-6.39	-6.90	-2.12	4.70
2462MHz	Pass	9.30	-12.50	-13.58	-12.23	-11.73	-8.09	4.70
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.30	-17.12	-16.95	-17.79	-17.72	-11.98	4.70
2437MHz	Pass	9.30	-13.87	-14.02	-14.85	-13.55	-9.04	4.70
2452MHz	Pass	9.30	-15.59	-16.28	-16.46	-16.68	-11.61	4.70
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	9.30	-13.69	-13.05	-14.26	-14.39	-9.00	4.70
2437MHz	Pass	9.30	-7.15	-7.30	-5.04	-7.59	-1.37	4.70
2462MHz	Pass	9.30	-14.97	-15.34	-14.19	-15.41	-9.75	4.70
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	9.30	-19.41	-17.85	-19.05	-18.87	-13.24	4.70
2437MHz	Pass	9.30	-15.09	-14.60	-15.18	-14.26	-9.85	4.70
2452MHz	Pass	9.30	-17.15	-17.38	-17.35	-17.32	-12.28	4.70

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

802.11b_(1Mbps)_4TX **PSD**

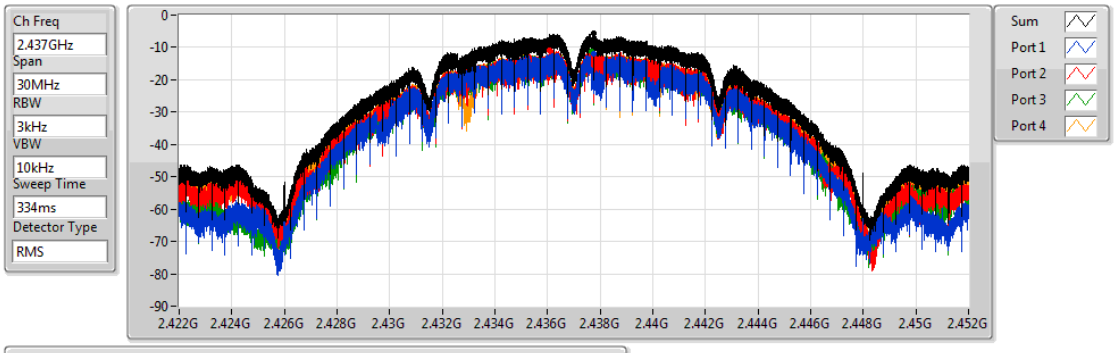
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.63	-5.63	-11.62	-10.65	-10.60	-11.34

802.11b_(1Mbps)_4TX **PSD**

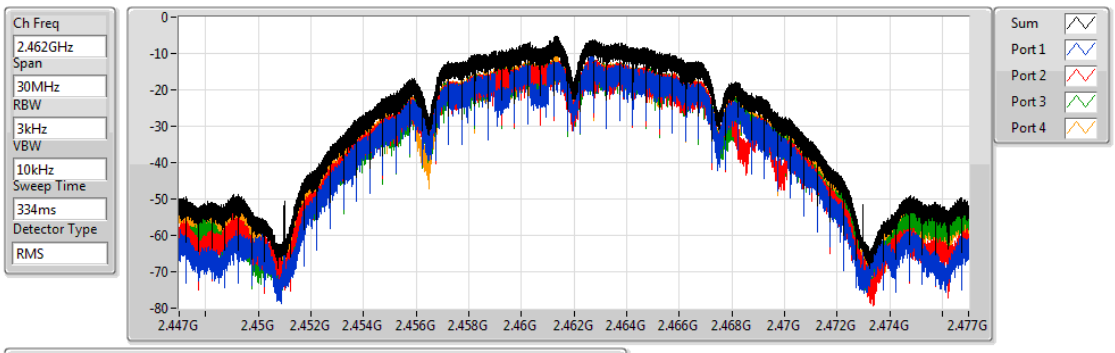
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.80	-5.80	-11.80	-10.95	-11.17	-11.27

802.11b_(1Mbps)_4TX **PSD**

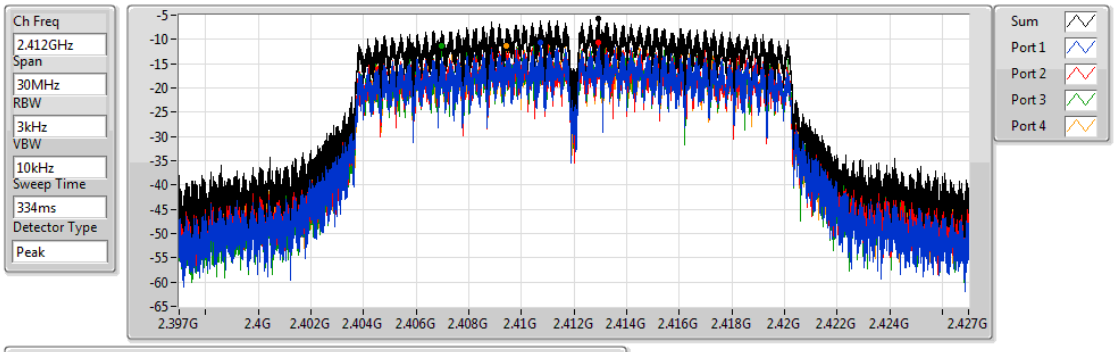
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.00	-6.00	-11.57	-11.61	-11.65	-11.43

802.11g_(6Mbps)_4TX **PSD**

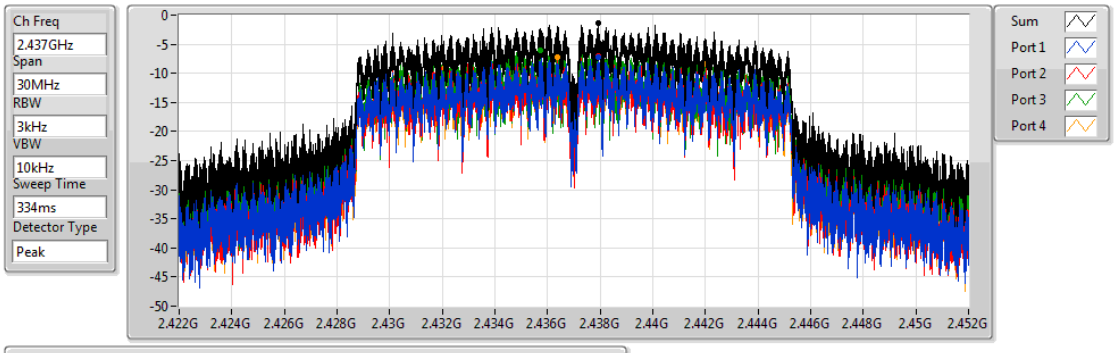
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.81	-5.81	-10.74	-10.53	-11.34	-11.39

802.11g_(6Mbps)_4TX **PSD**

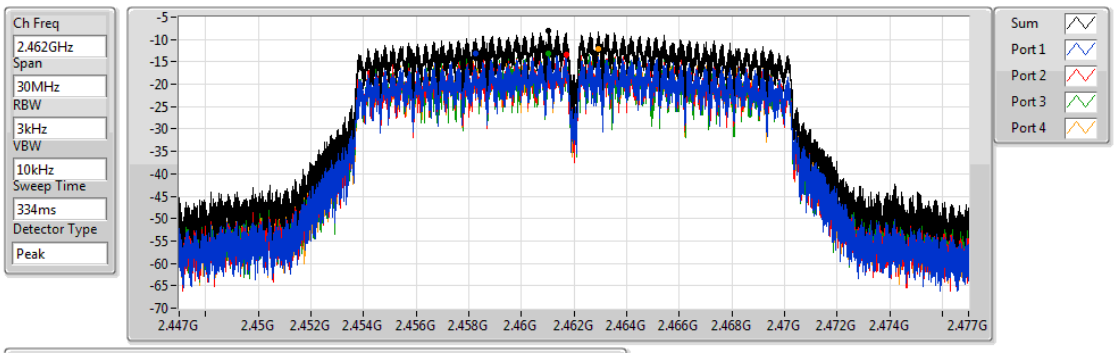
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.43	-1.43	-7.19	-7.11	-6.12	-7.32

802.11g_(6Mbps)_4TX **PSD**

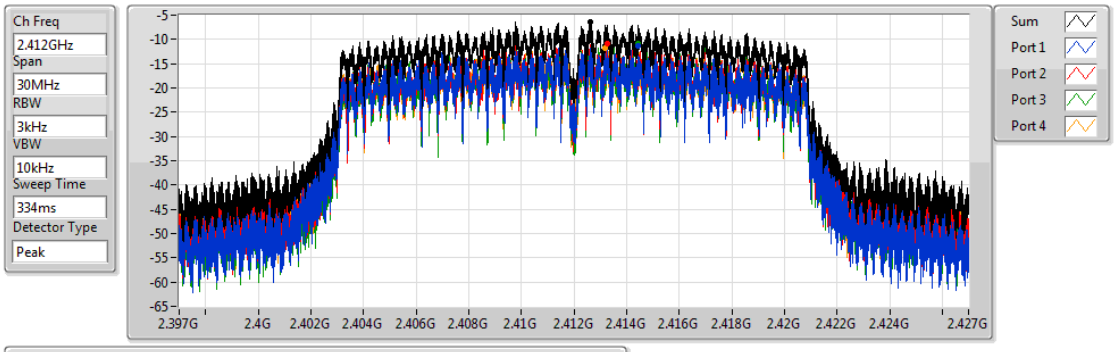
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.08	-8.08	-13.23	-13.32	-13.22	-12.18

802.11ac VHT20_Nss1,(MCS0)_4TX **PSD**

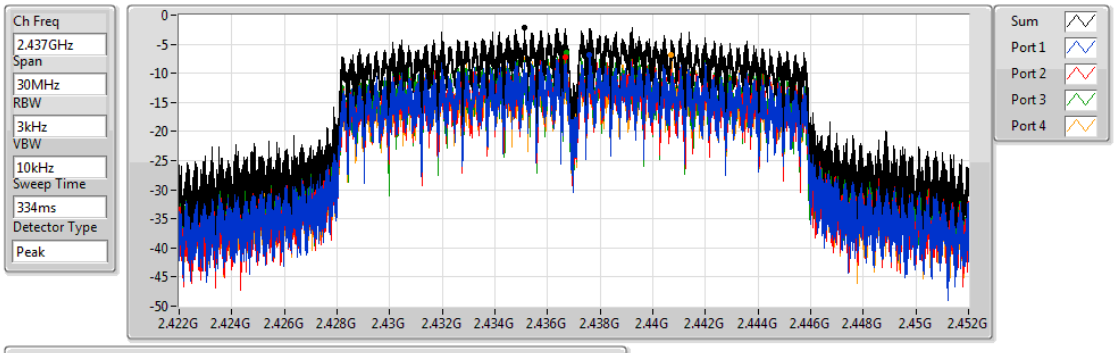
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.43	-6.43	-11.23	-10.87	-10.94	-11.69

802.11ac VHT20_Nss1,(MCS0)_4TX **PSD**

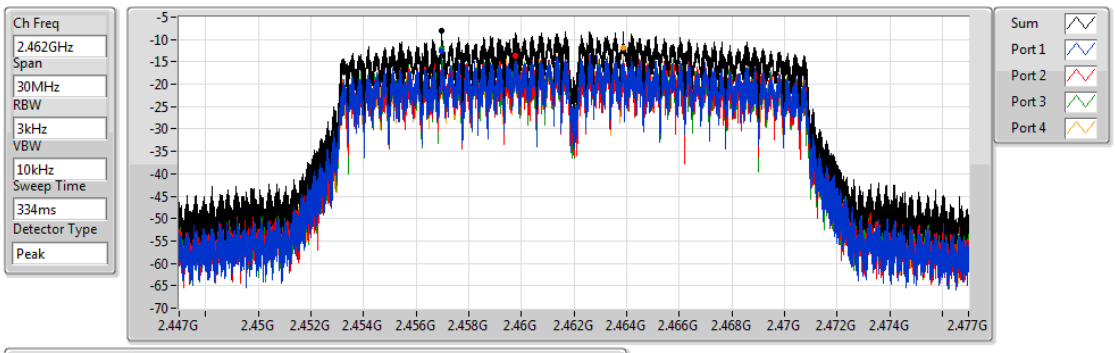
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.12	-2.12	-6.81	-7.32	-6.39	-6.90

802.11ac VHT20_Nss1,(MCS0)_4TX **PSD**

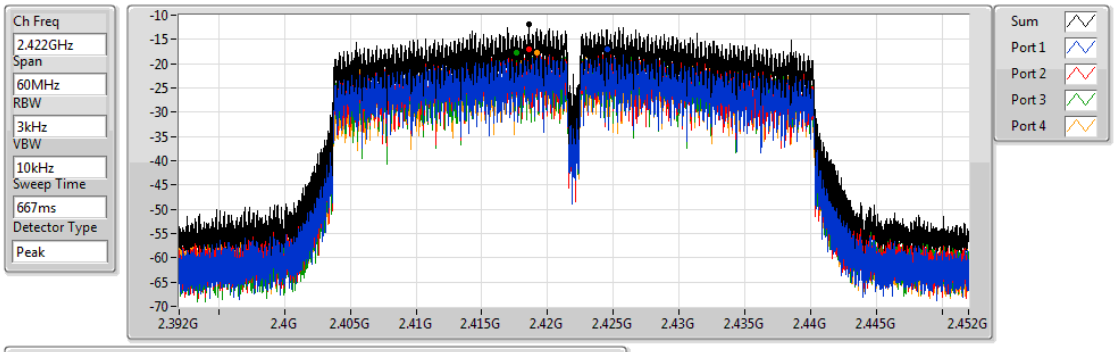
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.09	-8.09	-12.50	-13.58	-12.23	-11.73

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

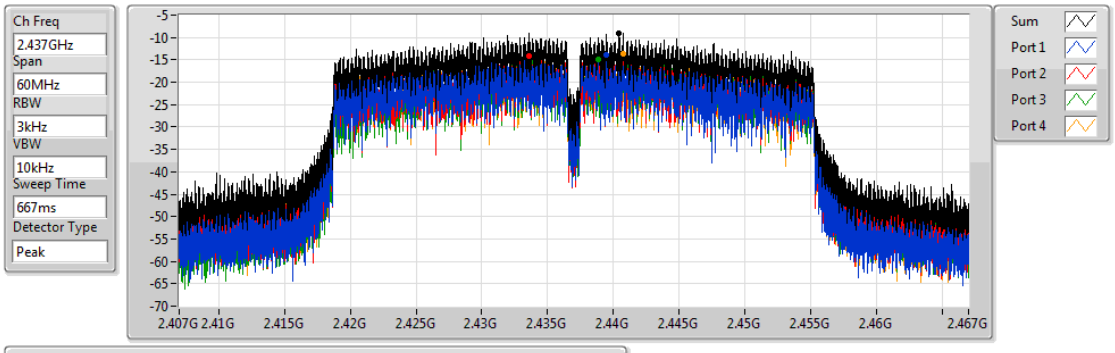
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.98	-11.98	-17.12	-16.95	-17.79	-17.72

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

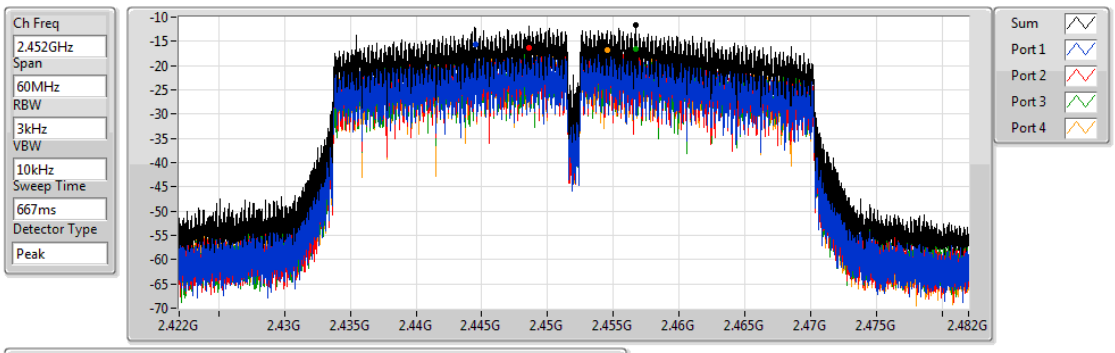
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.04	-9.04	-13.87	-14.02	-14.85	-13.55

802.11ac VHT40_Nss1,(MCS0)_4TX PSD

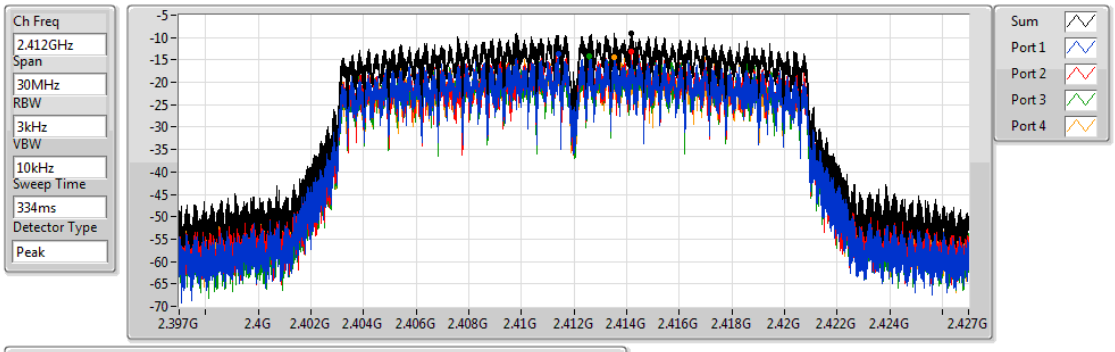
2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.61	-11.61	-15.59	-16.28	-16.46	-16.68

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

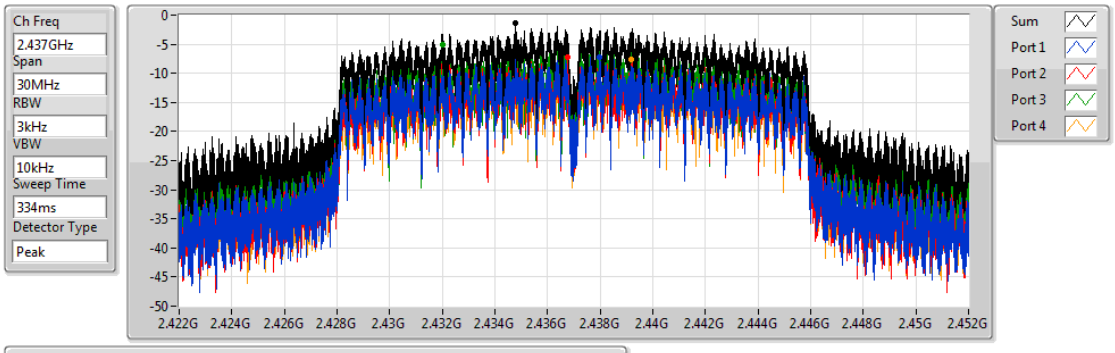
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.00	-9.00	-13.69	-13.05	-14.26	-14.39

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

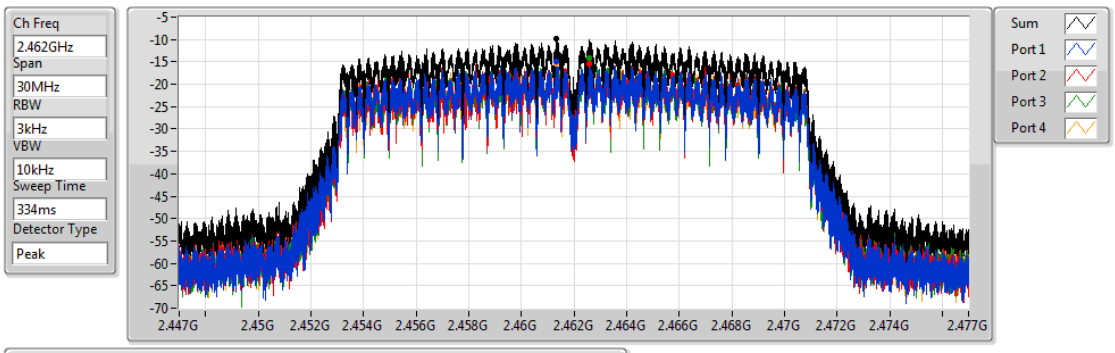
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.37	-1.37	-7.15	-7.30	-5.04	-7.59

802.11ac VHT20-BF_Nss1,(MCS0)_4TX PSD

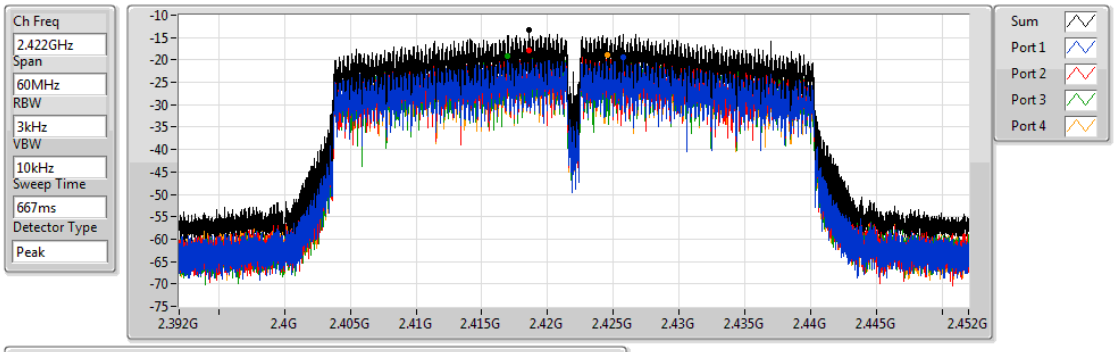
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.75	-9.75	-14.97	-15.34	-14.19	-15.41

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

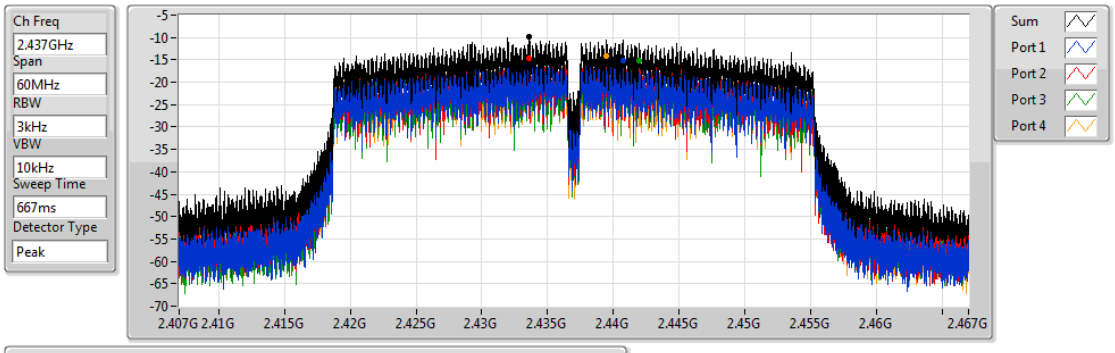
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.24	-13.24	-19.41	-17.85	-19.05	-18.87

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

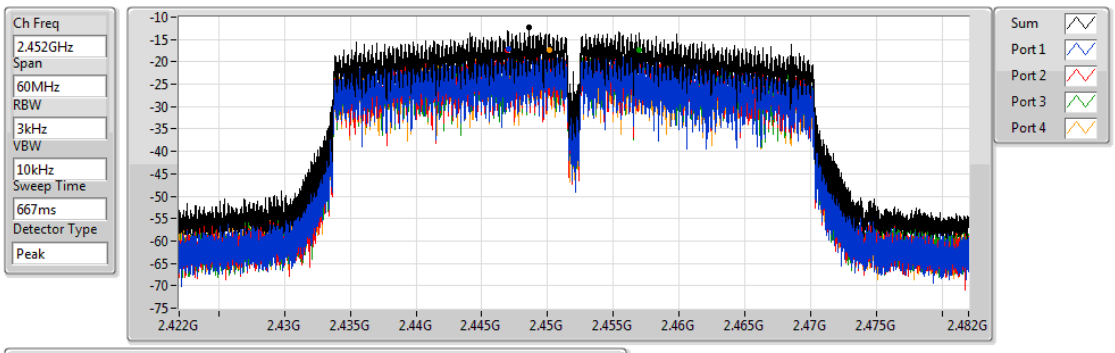
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.85	-9.85	-15.09	-14.60	-15.18	-14.26

802.11ac VHT40-BF_Nss1,(MCS0)_4TX PSD

2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.28	-12.28	-17.15	-17.38	-17.35	-17.32

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
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.438243G	10.93	-19.07	2.307575G	-54.18	2.39568G	-53.13	2.48422G	-47.84	5.310586G	-22.58	2

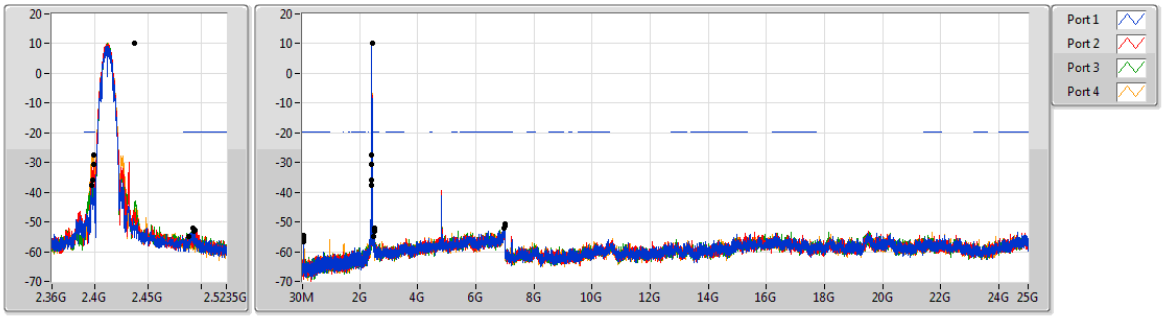
Result

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_(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.437408G	10.2	-19.8	49.805M	-55.15	2.39704G	-37.7	2.49246G	-52.21	6.965418G	-52.21	1
2412MHz	Pass	2.437408G	10.2	-19.8	49.805M	-55.84	2.39904G	-30.46	2.4935G	-53.23	6.959799G	-52.07	2
2412MHz	Pass	2.437408G	10.2	-19.8	49.805M	-56.67	2.398G	-35.77	2.4939G	-52.74	6.990704G	-51.53	3
2412MHz	Pass	2.437408G	10.2	-19.8	49.805M	-54.56	2.39904G	-27.63	2.48854G	-54.91	6.996324G	-50.66	4
2437MHz	Pass	2.437408G	10.2	-19.8	2.302915G	-59.09	2.39864G	-53.48	2.5199G	-54.39	6.95418G	-51.5	1
2437MHz	Pass	2.437408G	10.2	-19.8	1.894G	-59.31	2.398G	-51.32	2.48902G	-52.53	6.931704G	-52.15	2
2437MHz	Pass	2.437408G	10.2	-19.8	1.78682G	-59.1	2.39872G	-53.11	2.48894G	-53.28	6.951371G	-51.86	3
2437MHz	Pass	2.437408G	10.2	-19.8	2.30175G	-58.65	2.39952G	-53	2.48542G	-54.01	6.971037G	-51.2	4
2462MHz	Pass	2.437408G	10.2	-19.8	2.30175G	-55.83	2.39944G	-55.81	2.4839G	-50.1	6.95418G	-50.31	1
2462MHz	Pass	2.437408G	10.2	-19.8	49.805M	-58.11	2.39864G	-55.44	2.48798G	-47.34	7.771763G	-51.29	2
2462MHz	Pass	2.437408G	10.2	-19.8	1.80313G	-58.86	2.39096G	-53.15	2.48598G	-48.89	6.965418G	-51.98	3
2462MHz	Pass	2.437408G	10.2	-19.8	2.300585G	-56.66	2.39856G	-56.13	2.48798G	-46.91	6.982276G	-50.05	4
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.438243G	10.93	-19.07	1.829925G	-54.33	2.39984G	-25.21	2.48694G	-51.77	6.948561G	-46.90	1
2412MHz	Pass	2.438243G	10.93	-19.07	2.30175G	-53.90	2.39992G	-24.35	2.48926G	-51.75	6.999133G	-46.06	2
2412MHz	Pass	2.438243G	10.93	-19.07	1.83575G	-53.90	2.39984G	-25.14	2.48726G	-49.37	6.968228G	-46.55	3
2412MHz	Pass	2.438243G	10.93	-19.07	2.305245G	-54.00	2.39984G	-23.77	2.4879G	-51.47	6.923275G	-46.72	4
2437MHz	Pass	2.438243G	10.93	-19.07	1.729735G	-54.58	2.39768G	-46.81	2.48406G	-48.24	6.982276G	-46.90	1
2437MHz	Pass	2.438243G	10.93	-19.07	1.951085G	-53.97	2.39944G	-46.67	2.48374G	-48.98	6.979466G	-46.74	2
2437MHz	Pass	2.438243G	10.93	-19.07	1.806625G	-53.94	2.39952G	-39.14	2.48358G	-42.68	6.976657G	-46.74	3
2437MHz	Pass	2.438243G	10.93	-19.07	2.307575G	-54.11	2.39296G	-45.89	2.4851G	-44.53	6.940132G	-46.87	4
2462MHz	Pass	2.438243G	10.93	-19.07	1.934775G	-54.20	2.39456G	-53.01	2.4839G	-49.26	5.341491G	-37.20	1
2462MHz	Pass	2.438243G	10.93	-19.07	2.307575G	-54.18	2.39568G	-53.13	2.48422G	-47.84	5.310586G	-22.58	2
2462MHz	Pass	2.438243G	10.93	-19.07	2.11302G	-54.38	2.39944G	-50.92	2.48382G	-47.43	6.962609G	-47.34	3
2462MHz	Pass	2.438243G	10.93	-19.07	1.972055G	-54.56	2.39536G	-53.69	2.48358G	-48.63	6.965418G	-46.74	4
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	10.36	-19.64	1.881185G	-54.82	2.39832G	-28.23	2.49534G	-51.86	5.34992G	-42.39	1
2412MHz	Pass	2.435738G	10.36	-19.64	2.100205G	-54.22	2.39952G	-24.45	2.50318G	-50.62	6.979466G	-45.89	2
2412MHz	Pass	2.435738G	10.36	-19.64	1.652845G	-53.71	2.3996G	-27.80	2.5107G	-49.24	6.965418G	-46.36	3
2412MHz	Pass	2.435738G	10.36	-19.64	2.104865G	-54.47	2.39984G	-25.29	2.49294G	-52.26	6.962609G	-46.62	4
2437MHz	Pass	2.435738G	10.36	-19.64	1.860215G	-54.02	2.39912G	-47.08	2.48726G	-47.04	5.34711G	-38.19	1
2437MHz	Pass	2.435738G	10.36	-19.64	1.848565G	-54.49	2.39736G	-45.43	2.48694G	-47.30	6.982276G	-46.50	2
2437MHz	Pass	2.435738G	10.36	-19.64	1.85439G	-53.79	2.39992G	-39.65	2.48566G	-42.11	6.990704G	-46.86	3
2437MHz	Pass	2.435738G	10.36	-19.64	2.030305G	-53.81	2.39888G	-44.14	2.48478G	-45.21	6.959799G	-47.81	4
2462MHz	Pass	2.435738G	10.36	-19.64	2.107195G	-54.18	2.39928G	-52.18	2.48382G	-47.24	6.968228G	-46.78	1
2462MHz	Pass	2.435738G	10.36	-19.64	1.94293G	-54.08	2.39408G	-52.76	2.48382G	-46.50	6.802464G	-47.35	2
2462MHz	Pass	2.435738G	10.36	-19.64	1.88468G	-53.97	2.3956G	-50.24	2.48374G	-45.08	6.917656G	-47.47	3
2462MHz	Pass	2.435738G	10.36	-19.64	1.636535G	-54.31	2.39504G	-52.97	2.48406G	-47.88	6.987895G	-47.25	4
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.431897G	1.84	-28.16	1.737195G	-54.79	2.3976G	-39.83	2.54574G	-53.42	6.95264G	-46.49	1
2422MHz	Pass	2.431897G	1.84	-28.16	2.00398G	-53.68	2.39392G	-37.68	2.49374G	-52.03	6.991904G	-46.87	2

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
2422MHz	Pass	2.431897G	1.84	-28.16	2.30626G	-54.11	2.3976G	-41.15	2.5099G	-52.18	6.983491G	-47.20	3
2422MHz	Pass	2.431897G	1.84	-28.16	1.79101G	-54.24	2.3936G	-37.92	2.4843G	-52.34	6.975077G	-47.71	4
2437MHz	Pass	2.431897G	1.84	-28.16	1.78185G	-54.55	2.39952G	-37.57	2.48446G	-47.61	6.949836G	-47.00	1
2437MHz	Pass	2.431897G	1.84	-28.16	1.858565G	-55.10	2.3984G	-37.26	2.48446G	-44.84	6.955445G	-47.59	2
2437MHz	Pass	2.431897G	1.84	-28.16	1.837955G	-54.61	2.39952G	-38.32	2.48382G	-46.46	6.986295G	-46.89	3
2437MHz	Pass	2.431897G	1.84	-28.16	2.307405G	-51.83	2.39952G	-33.74	2.48446G	-46.06	6.9891G	-45.85	4
2452MHz	Pass	2.431897G	1.84	-28.16	2.307405G	-53.54	2.3968G	-52.21	2.48734G	-43.87	6.983491G	-46.50	1
2452MHz	Pass	2.431897G	1.84	-28.16	1.81162G	-53.63	2.39648G	-52.83	2.48734G	-42.32	6.944227G	-47.36	2
2452MHz	Pass	2.431897G	1.84	-28.16	1.961615G	-53.58	2.39056G	-52.48	2.48366G	-40.45	6.980686G	-47.33	3
2452MHz	Pass	2.431897G	1.84	-28.16	2.005125G	-53.96	2.39744G	-53.36	2.48414G	-44.55	6.947031G	-46.89	4
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.430728G	10.46	-19.54	2.309905G	-53.39	2.39888G	-36.22	2.4907G	-52.19	5.34992G	-43.72	1
2412MHz	Pass	2.430728G	10.46	-19.54	2.300585G	-54.66	2.39992G	-33.73	2.48494G	-51.81	6.95699G	-47.32	2
2412MHz	Pass	2.430728G	10.46	-19.54	2.30175G	-53.50	2.39888G	-36.22	2.48558G	-50.31	6.968228G	-47.51	3
2412MHz	Pass	2.430728G	10.46	-19.54	1.8474G	-54.39	2.39984G	-33.05	2.49374G	-52.47	6.962609G	-47.68	4
2437MHz	Pass	2.430728G	10.46	-19.54	2.30874G	-53.20	2.39992G	-45.71	2.48414G	-48.06	6.976657G	-46.14	1
2437MHz	Pass	2.430728G	10.46	-19.54	1.91497G	-54.47	2.39888G	-45.21	2.48598G	-46.58	6.985085G	-45.57	2
2437MHz	Pass	2.430728G	10.46	-19.54	1.88468G	-54.40	2.3964G	-33.01	2.48382G	-35.75	6.934513G	-46.99	3
2437MHz	Pass	2.430728G	10.46	-19.54	2.309905G	-54.49	2.39928G	-43.38	2.48406G	-45.51	6.987895G	-46.61	4
2462MHz	Pass	2.430728G	10.46	-19.54	1.974385G	-54.13	2.39912G	-54.15	2.48358G	-52.20	6.906418G	-46.86	1
2462MHz	Pass	2.430728G	10.46	-19.54	2.16661G	-53.84	2.39456G	-53.75	2.48374G	-51.89	6.976657G	-47.20	2
2462MHz	Pass	2.430728G	10.46	-19.54	1.925455G	-52.74	2.39888G	-51.49	2.48358G	-47.94	6.987895G	-46.86	3
2462MHz	Pass	2.430728G	10.46	-19.54	1.944095G	-52.67	2.39888G	-53.99	2.48446G	-51.48	6.976657G	-46.82	4
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.434402G	1.84	-28.16	1.828795G	-53.98	2.3976G	-44.09	2.49726G	-52.28	6.977881G	-47.66	1
2422MHz	Pass	2.434402G	1.84	-28.16	1.943295G	-54.60	2.3976G	-41.05	2.51326G	-52.81	6.994709G	-47.49	2
2422MHz	Pass	2.434402G	1.84	-28.16	1.973065G	-54.33	2.3976G	-43.59	2.50862G	-51.43	6.991904G	-47.06	3
2422MHz	Pass	2.434402G	1.84	-28.16	2.17115G	-53.33	2.39744G	-41.91	2.50798G	-51.20	6.955445G	-47.13	4
2437MHz	Pass	2.434402G	1.84	-28.16	1.977645G	-54.32	2.3992G	-41.91	2.48718G	-51.34	6.975077G	-46.77	1
2437MHz	Pass	2.434402G	1.84	-28.16	2.18031G	-53.61	2.39952G	-38.19	2.48782G	-49.52	6.947031G	-47.02	2
2437MHz	Pass	2.434402G	1.84	-28.16	2.30397G	-54.84	2.39904G	-42.57	2.48382G	-48.01	6.969468G	-47.13	3
2437MHz	Pass	2.434402G	1.84	-28.16	2.158555G	-53.86	2.39952G	-37.97	2.48846G	-49.25	6.975077G	-47.17	4
2452MHz	Pass	2.434402G	1.84	-28.16	1.99482G	-53.99	2.39952G	-53.09	2.48382G	-48.06	5.292339G	-39.02	1
2452MHz	Pass	2.434402G	1.84	-28.16	2.044055G	-54.35	2.39872G	-53.56	2.48382G	-44.16	6.95264G	-46.12	2
2452MHz	Pass	2.434402G	1.84	-28.16	2.30397G	-54.03	2.39296G	-52.11	2.48478G	-45.39	6.9891G	-47.23	3
2452MHz	Pass	2.434402G	1.84	-28.16	1.631855G	-55.05	2.39664G	-52.83	2.48462G	-47.86	5.272707G	-38.68	4

802.11b_(1Mbps)_4TX **CSE NdB**

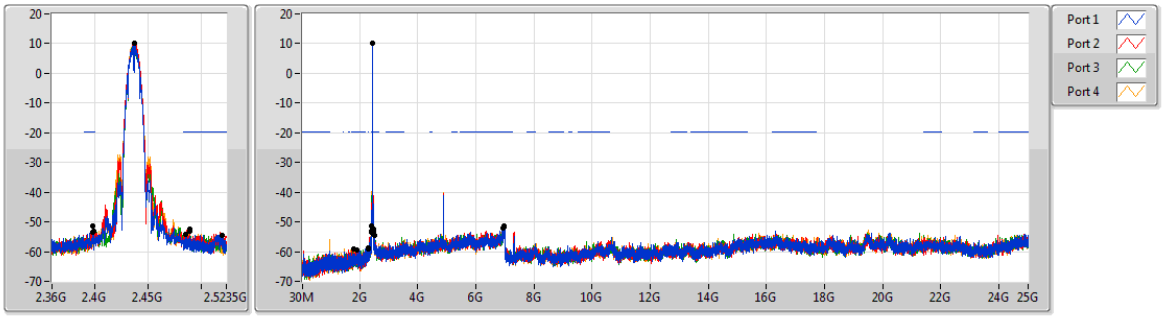
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437408G	10.20	-19.80	49.805M	-55.15	2.39704G	-37.70	2.49246G	-52.21	6.965418G	-52.21	1
2.437408G	10.20	-19.80	49.805M	-55.84	2.39904G	-30.46	2.4935G	-53.23	6.959799G	-52.07	2
2.437408G	10.20	-19.80	49.805M	-56.67	2.398G	-35.77	2.4939G	-52.74	6.990704G	-51.53	3
2.437408G	10.20	-19.80	49.805M	-54.56	2.39904G	-27.63	2.48854G	-54.91	6.996324G	-50.66	4

802.11b_(1Mbps)_4TX **CSE NdB**

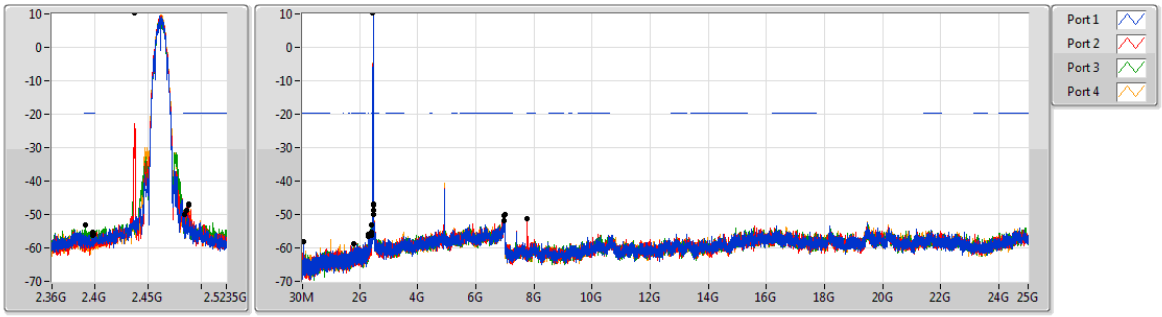
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437408G	10.20	-19.80	2.302915G	-59.09	2.39864G	-53.48	2.5199G	-54.39	6.95418G	-51.50	1
2.437408G	10.20	-19.80	1.894G	-59.31	2.398G	-51.32	2.48902G	-52.53	6.931704G	-52.15	2
2.437408G	10.20	-19.80	1.78682G	-59.10	2.39872G	-53.11	2.48894G	-53.28	6.951371G	-51.86	3
2.437408G	10.20	-19.80	2.30175G	-58.65	2.39952G	-53.00	2.48542G	-54.01	6.971037G	-51.20	4

802.11b_(1Mbps)_4TX **CSE NdB**

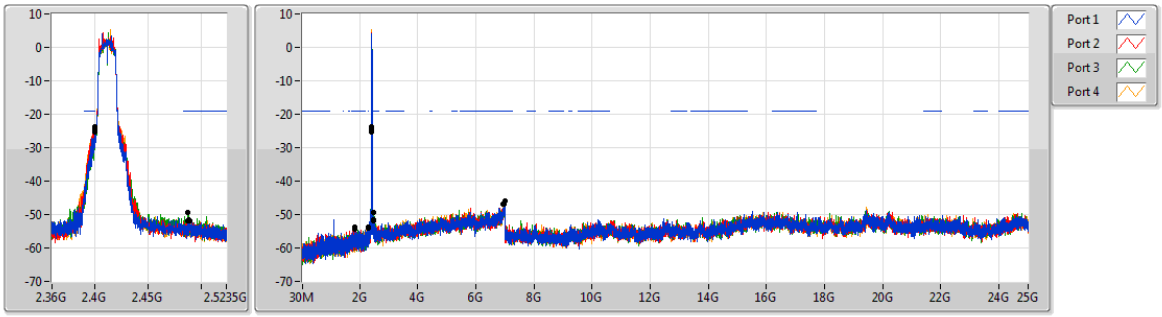
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437408G	10.20	-19.80	2.30175G	-55.83	2.39944G	-55.81	2.4839G	-50.10	6.95418G	-50.31	1
2.437408G	10.20	-19.80	49.805M	-58.11	2.39864G	-55.44	2.48798G	-47.34	7.771763G	-51.29	2
2.437408G	10.20	-19.80	1.80313G	-58.86	2.39096G	-53.15	2.48598G	-48.89	6.965418G	-51.98	3
2.437408G	10.20	-19.80	2.300585G	-56.66	2.39856G	-56.13	2.48798G	-46.91	6.982276G	-50.05	4

802.11g_(6Mbps)_4TX **CSE NdB**

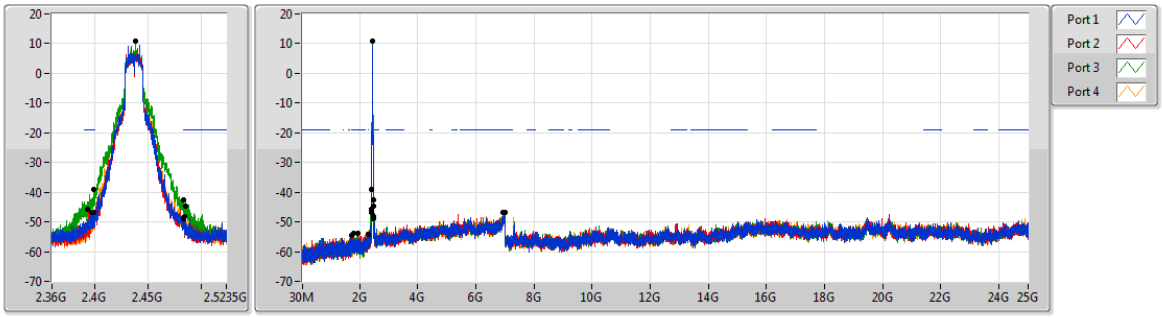
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	10.93	-19.07	1.829925G	-54.33	2.39984G	-25.21	2.48694G	-51.77	6.948561G	-46.90	1
2.438243G	10.93	-19.07	2.30175G	-53.90	2.39992G	-24.35	2.48926G	-51.75	6.999133G	-46.06	2
2.438243G	10.93	-19.07	1.83575G	-53.90	2.39984G	-25.14	2.48726G	-49.37	6.968228G	-46.55	3
2.438243G	10.93	-19.07	2.305245G	-54.00	2.39984G	-23.77	2.4879G	-51.47	6.923275G	-46.72	4

802.11g_(6Mbps)_4TX **CSE NdB**

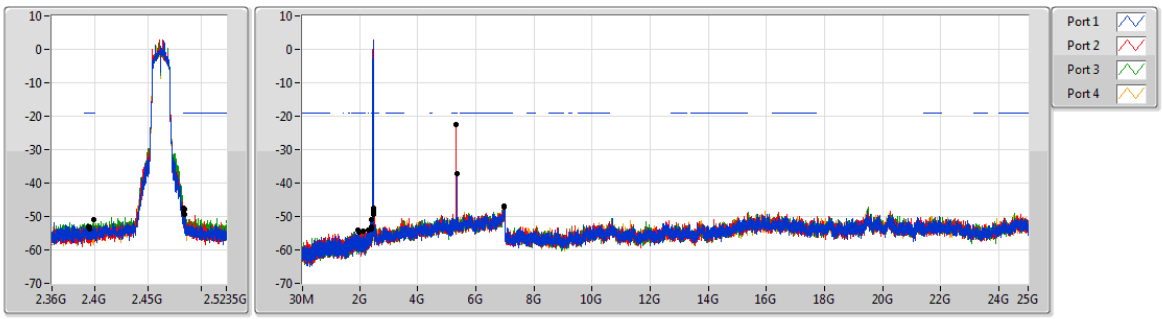
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	10.93	-19.07	1.729735G	-54.58	2.39768G	-46.81	2.48406G	-48.24	6.982276G	-46.90	1
2.438243G	10.93	-19.07	1.951085G	-53.97	2.39944G	-46.67	2.48374G	-48.98	6.979466G	-46.74	2
2.438243G	10.93	-19.07	1.806625G	-53.94	2.39952G	-39.14	2.48358G	-42.68	6.976657G	-46.74	3
2.438243G	10.93	-19.07	2.307575G	-54.11	2.39296G	-45.89	2.4851G	-44.53	6.940132G	-46.87	4

802.11g_(6Mbps)_4TX **CSE NdB**

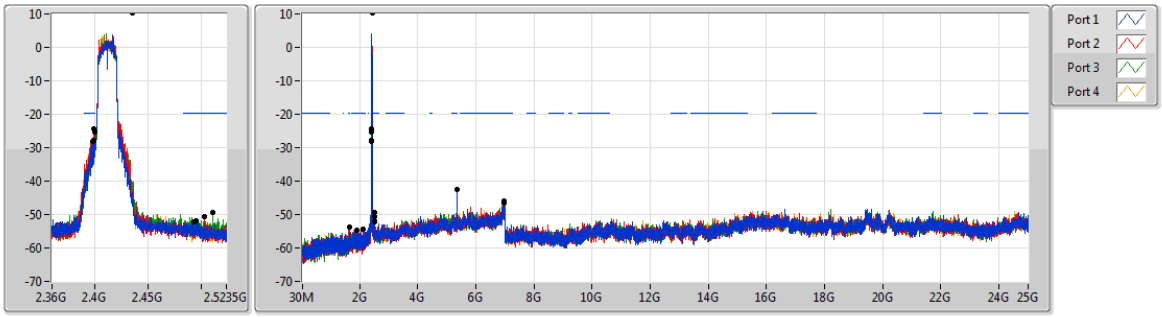
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.438243G	10.93	-19.07	1.934775G	-54.20	2.39456G	-53.01	2.4839G	-49.26	5.341491G	-37.20	1
2.438243G	10.93	-19.07	2.307575G	-54.18	2.39568G	-53.13	2.48422G	-47.84	5.310586G	-22.58	2
2.438243G	10.93	-19.07	2.11302G	-54.38	2.39944G	-50.92	2.48382G	-47.43	6.962609G	-47.34	3
2.438243G	10.93	-19.07	1.972055G	-54.56	2.39536G	-53.69	2.48358G	-48.63	6.965418G	-46.74	4

802.11ac VHT20_Nss1,(MCS0)_4TX **CSE NdB**

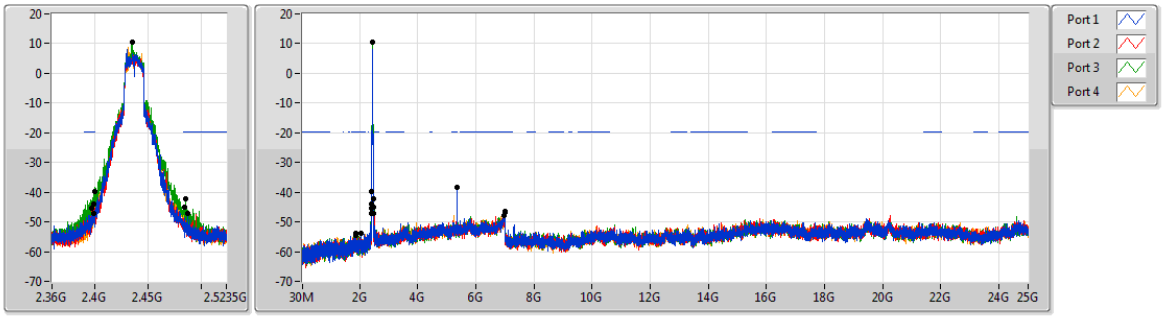
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	10.36	-19.64	1.881185G	-54.82	2.39832G	-28.23	2.49534G	-51.86	5.34992G	-42.39	1
2.435738G	10.36	-19.64	2.100205G	-54.22	2.39952G	-24.45	2.50318G	-50.62	6.979466G	-45.89	2
2.435738G	10.36	-19.64	1.652845G	-53.71	2.3996G	-27.80	2.5107G	-49.24	6.965418G	-46.36	3
2.435738G	10.36	-19.64	2.104865G	-54.47	2.39984G	-25.29	2.49294G	-52.26	6.962609G	-46.62	4

802.11ac VHT20_Nss1,(MCS0)_4TX **CSE NdB**

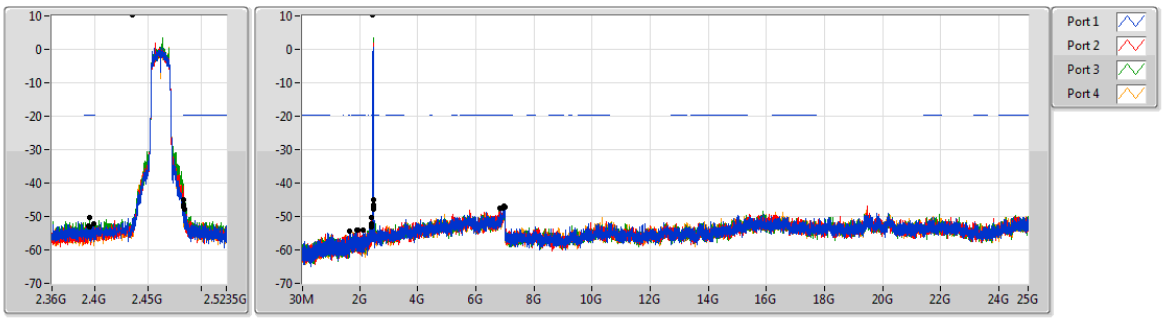
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	10.36	-19.64	1.860215G	-54.02	2.39912G	-47.08	2.48726G	-47.04	5.34711G	-38.19	1
2.435738G	10.36	-19.64	1.848565G	-54.49	2.39736G	-45.43	2.48694G	-47.30	6.982276G	-46.50	2
2.435738G	10.36	-19.64	1.85439G	-53.79	2.39992G	-39.65	2.48566G	-42.11	6.990704G	-46.86	3
2.435738G	10.36	-19.64	2.030305G	-53.81	2.39888G	-44.14	2.48478G	-45.21	6.959799G	-47.81	4

802.11ac VHT20_Nss1,(MCS0)_4TX **CSE NdB**

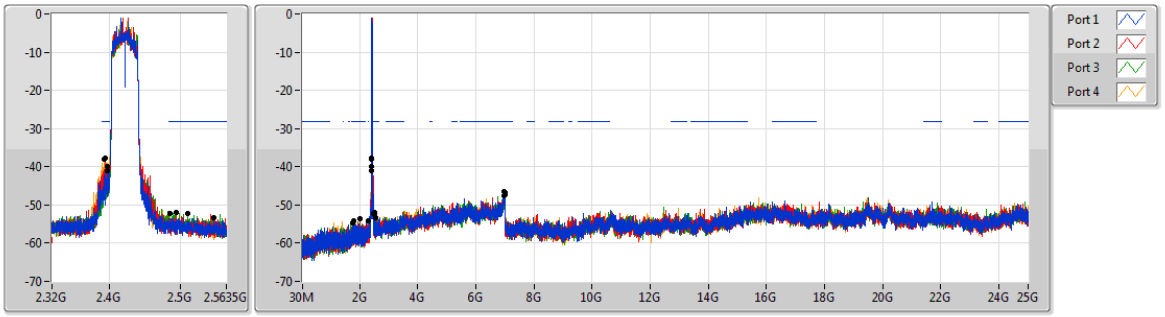
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	10.36	-19.64	2.107195G	-54.18	2.39928G	-52.18	2.48382G	-47.24	6.968228G	-46.78	1
2.435738G	10.36	-19.64	1.94293G	-54.08	2.39408G	-52.76	2.48382G	-46.50	6.802464G	-47.35	2
2.435738G	10.36	-19.64	1.88468G	-53.97	2.3956G	-50.24	2.48374G	-45.08	6.917656G	-47.47	3
2.435738G	10.36	-19.64	1.636535G	-54.31	2.39504G	-52.97	2.48406G	-47.88	6.987895G	-47.25	4

802.11ac VHT40_Nss1,(MCS0)_4TX **CSE NdB**

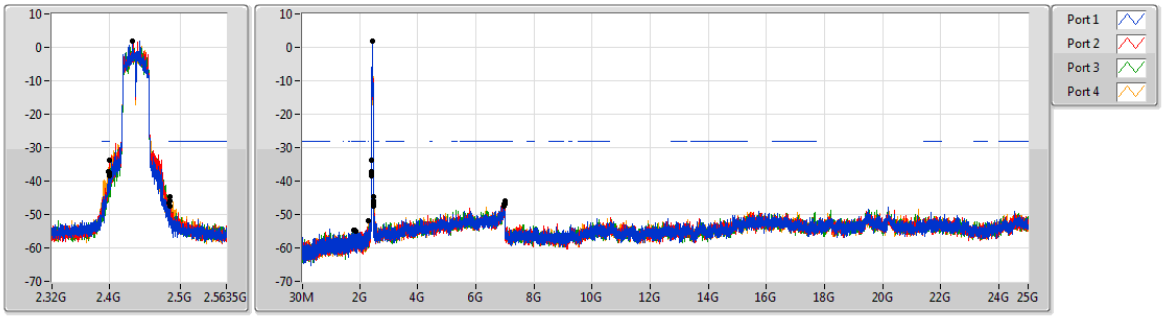
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.431897G	1.84	-28.16	1.737195G	-54.79	2.3976G	-39.83	2.54574G	-53.42	6.95264G	-46.49	1
2.431897G	1.84	-28.16	2.00398G	-53.68	2.39392G	-37.68	2.49374G	-52.03	6.991904G	-46.87	2
2.431897G	1.84	-28.16	2.30626G	-54.11	2.3976G	-41.15	2.5099G	-52.18	6.983491G	-47.20	3
2.431897G	1.84	-28.16	1.79101G	-54.24	2.3936G	-37.92	2.4843G	-52.34	6.975077G	-47.71	4

802.11ac VHT40_Nss1,(MCS0)_4TX **CSE NdB**

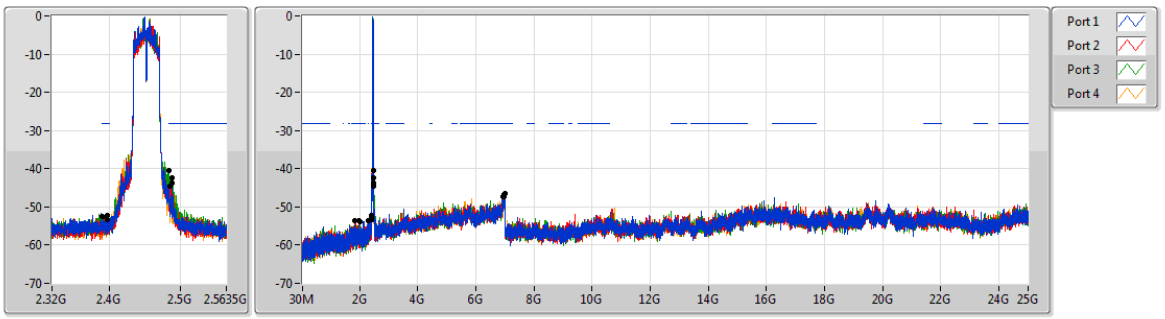
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.431897G	1.84	-28.16	1.78185G	-54.55	2.39952G	-37.57	2.48446G	-47.61	6.949836G	-47.00	1
2.431897G	1.84	-28.16	1.858565G	-55.10	2.3984G	-37.26	2.48446G	-44.84	6.955445G	-47.59	2
2.431897G	1.84	-28.16	1.837955G	-54.61	2.39952G	-38.32	2.48382G	-46.46	6.986295G	-46.89	3
2.431897G	1.84	-28.16	2.307405G	-51.83	2.39952G	-33.74	2.48446G	-46.06	6.9891G	-45.85	4

802.11ac VHT40_Nss1,(MCS0)_4TX **CSE NdB**

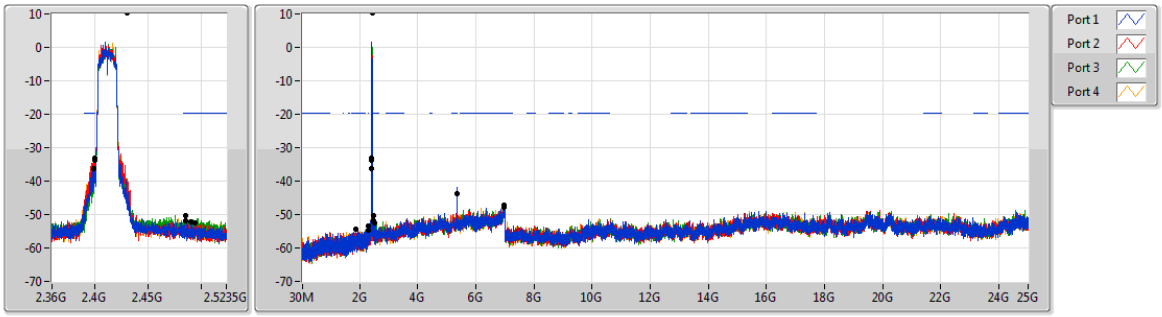
2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.431897G	1.84	-28.16	2.307405G	-53.54	2.3968G	-52.21	2.48734G	-43.87	6.983491G	-46.50	1
2.431897G	1.84	-28.16	1.81162G	-53.63	2.39648G	-52.83	2.48734G	-42.32	6.944227G	-47.36	2
2.431897G	1.84	-28.16	1.961615G	-53.58	2.39056G	-52.48	2.48366G	-40.45	6.980686G	-47.33	3
2.431897G	1.84	-28.16	2.005125G	-53.96	2.39744G	-53.36	2.48414G	-44.55	6.947031G	-46.89	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **CSE NdB**

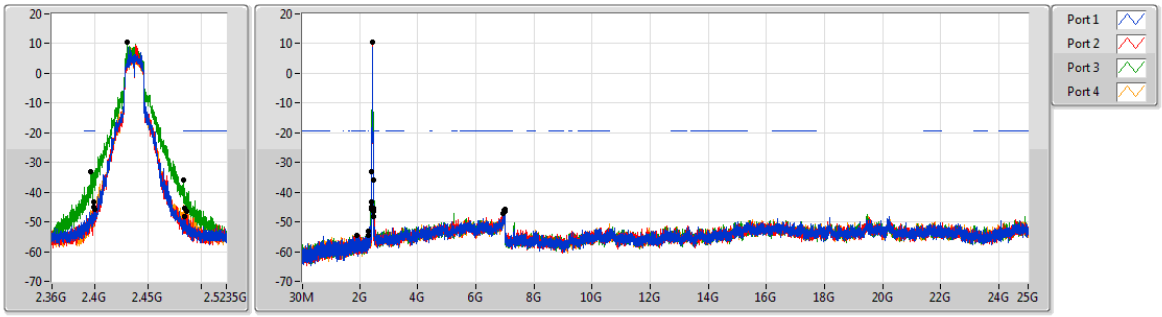
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	10.46	-19.54	2.309905G	-53.39	2.39888G	-36.22	2.4907G	-52.19	5.34992G	-43.72	1
2.430728G	10.46	-19.54	2.300585G	-54.66	2.39992G	-33.73	2.48494G	-51.81	6.95699G	-47.32	2
2.430728G	10.46	-19.54	2.30175G	-53.50	2.39888G	-36.22	2.48558G	-50.31	6.968228G	-47.51	3
2.430728G	10.46	-19.54	1.8474G	-54.39	2.39984G	-33.05	2.49374G	-52.47	6.962609G	-47.68	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **CSE NdB**

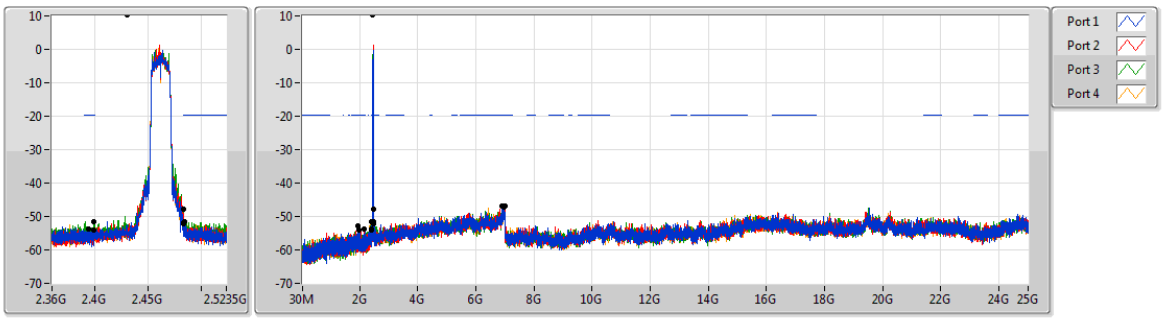
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	10.46	-19.54	2.30874G	-53.20	2.39992G	-45.71	2.48414G	-48.06	6.976657G	-46.14	1
2.430728G	10.46	-19.54	1.91497G	-54.47	2.39888G	-45.21	2.48598G	-46.58	6.985085G	-45.57	2
2.430728G	10.46	-19.54	1.88468G	-54.40	2.3964G	-33.01	2.48382G	-35.75	6.934513G	-46.99	3
2.430728G	10.46	-19.54	2.309905G	-54.49	2.39928G	-43.38	2.48406G	-45.51	6.987895G	-46.61	4

802.11ac VHT20-BF_Nss1,(MCS0)_4TX **CSE NdB**

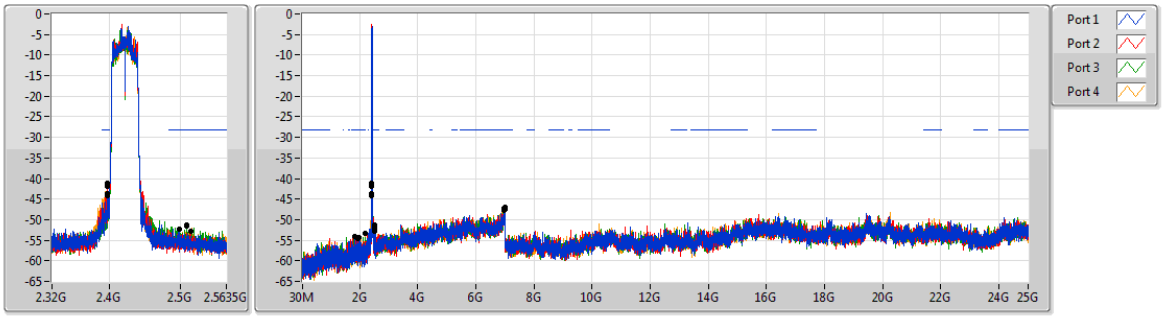
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.430728G	10.46	-19.54	1.974385G	-54.13	2.39912G	-54.15	2.48358G	-52.20	6.906418G	-46.86	1
2.430728G	10.46	-19.54	2.16661G	-53.84	2.39456G	-53.75	2.48374G	-51.89	6.976657G	-47.20	2
2.430728G	10.46	-19.54	1.925455G	-52.74	2.39888G	-51.49	2.48358G	-47.94	6.987895G	-46.86	3
2.430728G	10.46	-19.54	1.944095G	-52.67	2.39888G	-53.99	2.48446G	-51.48	6.976657G	-46.82	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **CSE NdB**

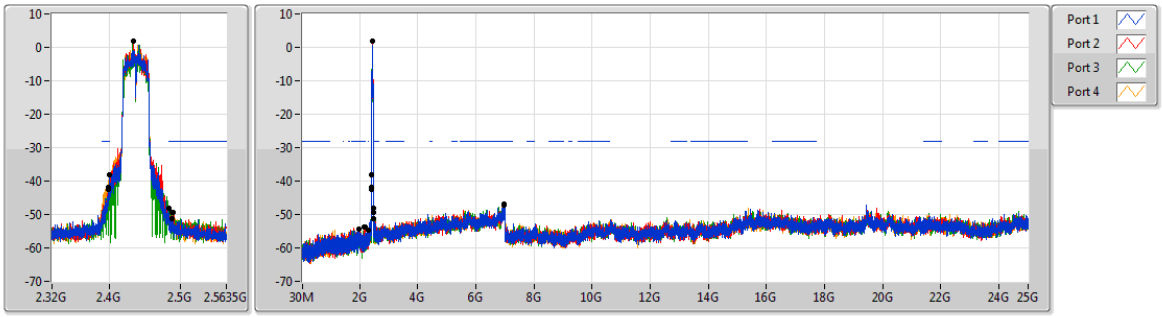
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	1.84	-28.16	1.828795G	-53.98	2.3976G	-44.09	2.49726G	-52.28	6.977881G	-47.66	1
2.434402G	1.84	-28.16	1.943295G	-54.60	2.3976G	-41.05	2.51326G	-52.81	6.994709G	-47.49	2
2.434402G	1.84	-28.16	1.973065G	-54.33	2.3976G	-43.59	2.50862G	-51.43	6.991904G	-47.06	3
2.434402G	1.84	-28.16	2.17115G	-53.33	2.39744G	-41.91	2.50798G	-51.20	6.955445G	-47.13	4

802.11ac VHT40-BF_Nss1,(MCS0)_4TX **CSE NdB**

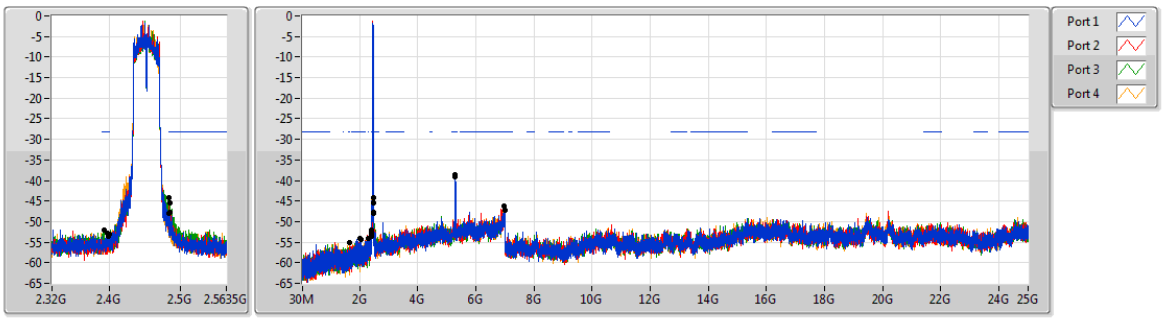
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	1.84	-28.16	1.977645G	-54.32	2.3992G	-41.91	2.48718G	-51.34	6.975077G	-46.77	1
2.434402G	1.84	-28.16	2.18031G	-53.61	2.39952G	-38.19	2.48782G	-49.52	6.947031G	-47.02	2
2.434402G	1.84	-28.16	2.30397G	-54.84	2.39904G	-42.57	2.48382G	-48.01	6.969468G	-47.13	3
2.434402G	1.84	-28.16	2.158555G	-53.86	2.39952G	-37.97	2.48846G	-49.25	6.975077G	-47.17	4

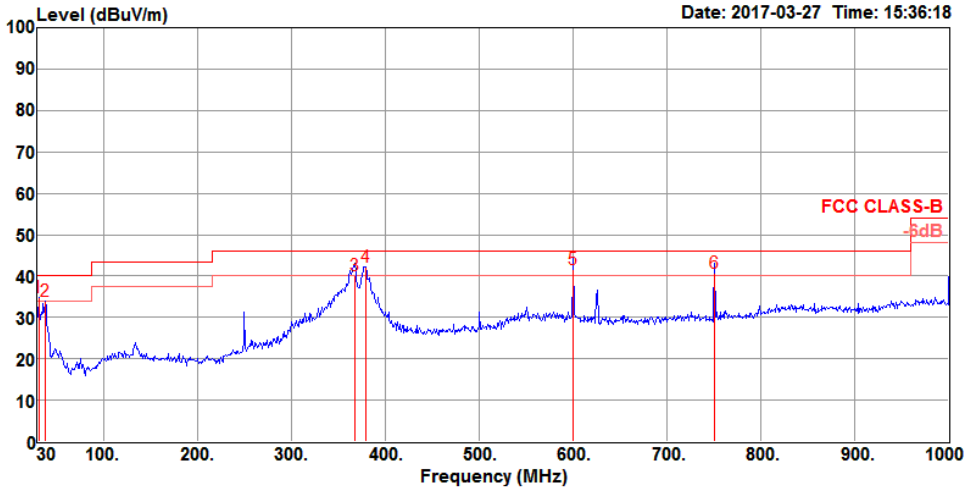
802.11ac VHT40-BF_Nss1,(MCS0)_4TX **CSE NdB**

2452MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.434402G	1.84	-28.16	1.99482G	-53.99	2.39952G	-53.09	2.48382G	-48.06	5.292339G	-39.02	1
2.434402G	1.84	-28.16	2.044055G	-54.35	2.39872G	-53.56	2.48382G	-44.16	6.95264G	-46.12	2
2.434402G	1.84	-28.16	2.30397G	-54.03	2.39296G	-52.11	2.48478G	-45.39	6.9891G	-47.23	3
2.434402G	1.84	-28.16	1.631855G	-55.05	2.39664G	-52.83	2.48462G	-47.86	5.272707G	-38.68	4

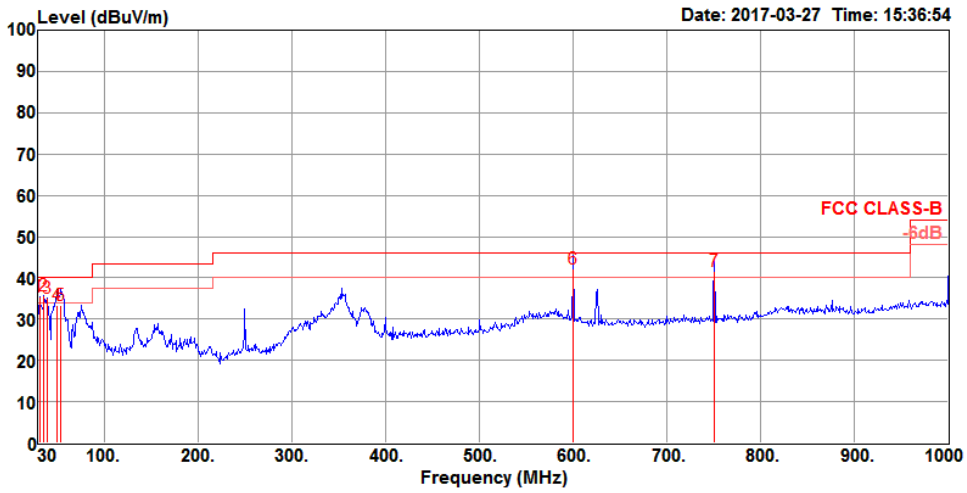
RSE below 1GHz Result			
Operating Mode	1	**Polarization**	Horizontal
Operating Function	Normal Link		



	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	30.97	34.92	40.00	-5.08	41.88	0.51	24.93	32.40	300	5	Peak	HORIZONTAL
2	37.76	33.84	40.00	-6.16	44.57	0.58	21.08	32.39	200	131	Peak	HORIZONTAL
3	367.56	40.06	46.00	-5.94	49.00	1.86	21.48	32.28	100	183	QP	HORIZONTAL
4	379.20	42.20	46.00	-3.80	50.84	1.89	21.75	32.28	100	167	Peak	HORIZONTAL
5	600.36	41.73	46.00	-4.27	46.69	2.44	25.00	32.40	150	262	QP	HORIZONTAL
6	750.71	40.86	46.00	-5.14	44.40	2.73	26.00	32.27	100	299	QP	HORIZONTAL

Note 1: “>20dB” means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: “N/F” means Nothing Found emissions (No emissions were detected.)

RSE below 1GHz 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	30.97	35.45	40.00	-4.55	42.41	0.51	24.93	32.40	300	207	Peak	VERTICAL
2	35.82	35.85	40.00	-4.15	45.49	0.57	22.18	32.39	150	167	Peak	VERTICAL
3	38.73	35.19	40.00	-4.81	46.43	0.59	20.56	32.39	150	108	Peak	VERTICAL
4	50.37	33.21	40.00	-6.79	49.99	0.68	14.91	32.37	100	0	QP	VERTICAL
5	54.25	33.29	40.00	-6.71	51.00	0.72	13.94	32.37	100	1	QP	VERTICAL
6	600.36	42.24	46.00	-3.76	47.20	2.44	25.00	32.40	150	23	QP	VERTICAL
7	750.71	41.46	46.00	-4.54	45.00	2.73	26.00	32.27	150	186	QP	VERTICAL

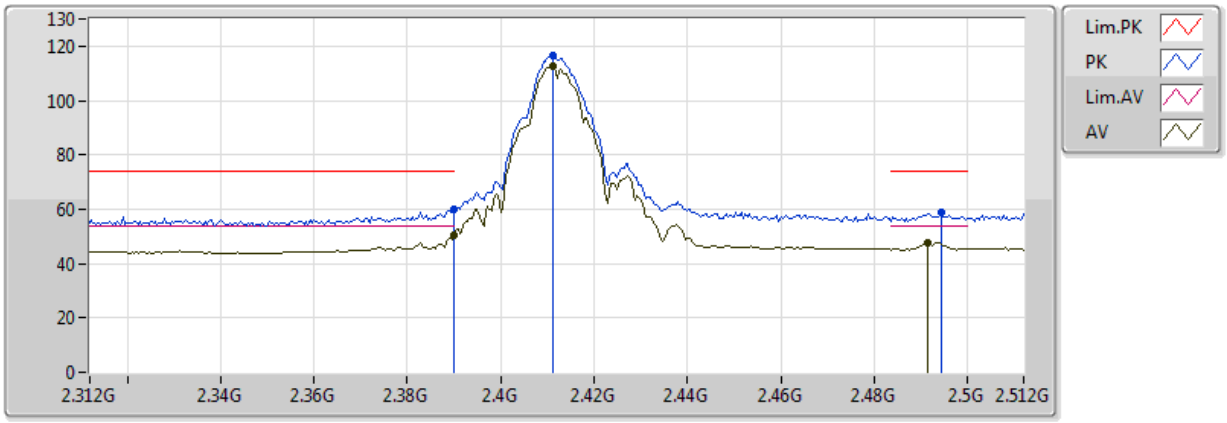
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11g_(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.39G	52.98	54.00	-1.02	31.91	3	V	83	1.40	-

802.11b_(1Mbps)_4TX

2412MHz_TX

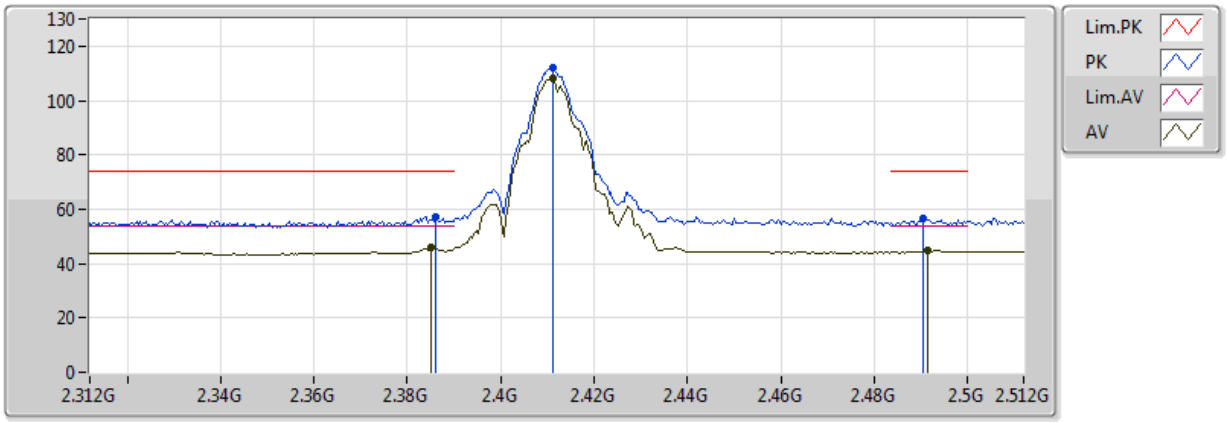


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	50.42	54.00	-3.58	31.91	3	V	84	1.38	-
AV	2.4112G	112.78	Inf	-Inf	31.97	3	V	84	1.38	-
AV	2.4916G	47.70	54.00	-6.30	32.16	3	V	84	1.38	-
PK	2.39G	59.90	74.00	-14.10	31.91	3	V	84	1.38	-
PK	2.4112G	116.62	Inf	-Inf	31.97	3	V	84	1.38	-
PK	2.4944G	58.87	74.00	-15.13	32.17	3	V	84	1.38	-

802.11b_(1Mbps)_4TX

2412MHz_TX

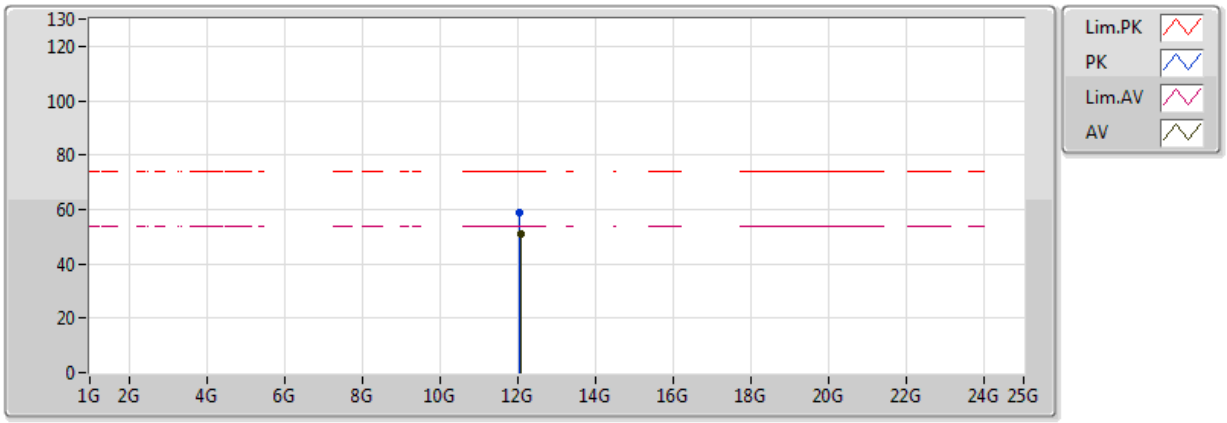


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3852G	45.72	54.00	-8.28	31.90	3	H	317	2.56	-
AV	2.4112G	108.00	Inf	-Inf	31.97	3	H	317	2.56	-
AV	2.4916G	44.98	54.00	-9.02	32.16	3	H	317	2.56	-
PK	2.386G	57.04	74.00	-16.96	31.90	3	H	317	2.56	-
PK	2.4112G	111.90	Inf	-Inf	31.97	3	H	317	2.56	-
PK	2.4904G	56.76	74.00	-17.24	32.16	3	H	317	2.56	-

802.11b_(1Mbps)_4TX

2412MHz_TX

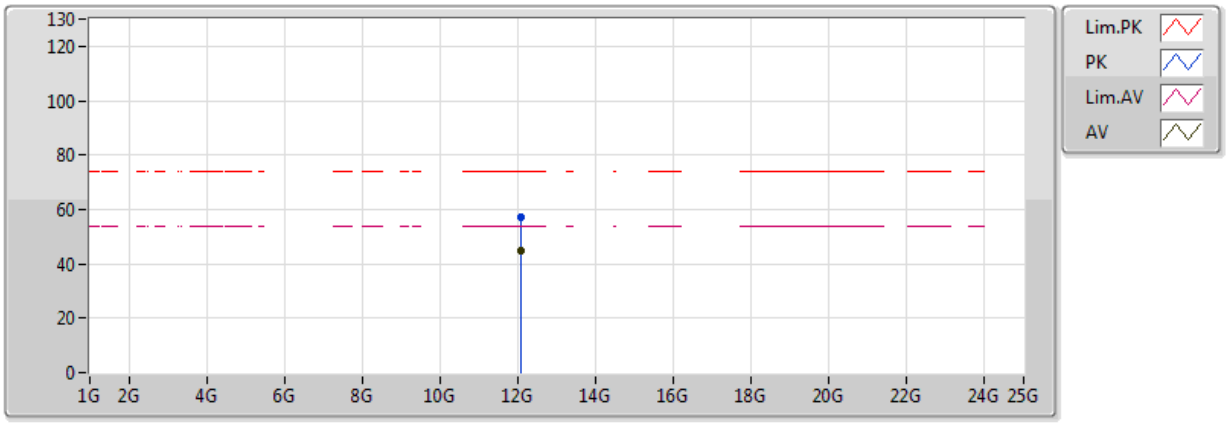


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.06072G	50.90	54.00	-3.10	14.08	3	V	20	2.68	-
PK	12.05852G	59.05	74.00	-14.95	14.08	3	V	20	2.68	-

802.11b_(1Mbps)_4TX

2412MHz_TX

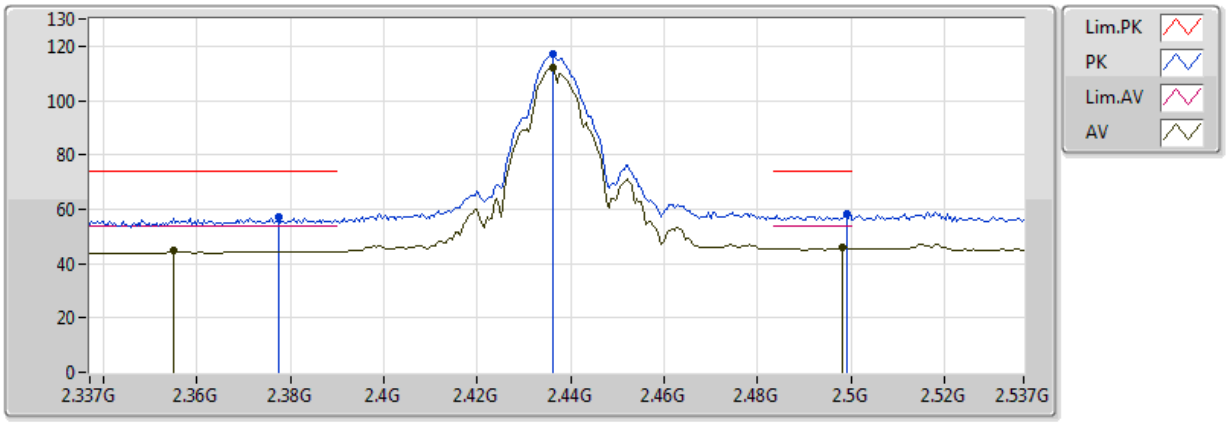


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.06088G	45.08	54.00	-8.92	14.08	3	H	231	1.50	-
PK	12.06112G	56.88	74.00	-17.12	14.08	3	H	231	1.50	-

802.11b_(1Mbps)_4TX

2437MHz_TX

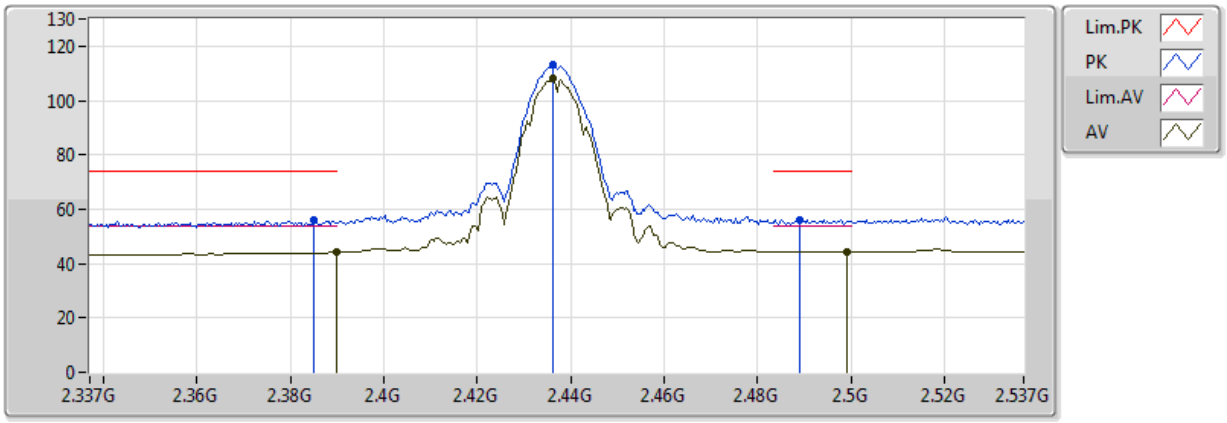


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.355G	44.58	54.00	-9.42	31.82	3	V	86	1.33	-
AV	2.4362G	111.90	Inf	-Inf	32.03	3	V	86	1.33	-
AV	2.4982G	45.75	54.00	-8.25	32.18	3	V	86	1.33	-
PK	2.3774G	56.88	74.00	-17.12	31.88	3	V	86	1.33	-
PK	2.4362G	116.89	Inf	-Inf	32.03	3	V	86	1.33	-
PK	2.499G	58.10	74.00	-15.90	32.18	3	V	86	1.33	-

802.11b_(1Mbps)_4TX

2437MHz_TX

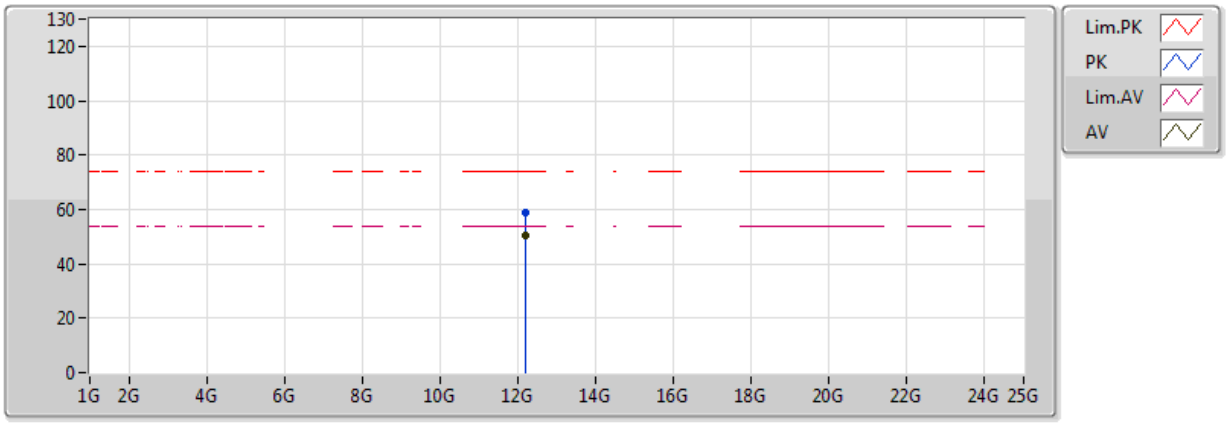


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	44.10	54.00	-9.90	31.91	3	H	17	2.43	-
AV	2.4362G	108.20	Inf	-Inf	32.03	3	H	17	2.43	-
AV	2.499G	44.31	54.00	-9.69	32.18	3	H	17	2.43	-
PK	2.385G	55.87	74.00	-18.13	31.90	3	H	17	2.43	-
PK	2.4362G	112.96	Inf	-Inf	32.03	3	H	17	2.43	-
PK	2.489G	56.29	74.00	-17.71	32.15	3	H	17	2.43	-

802.11b_(1Mbps)_4TX

2437MHz_TX

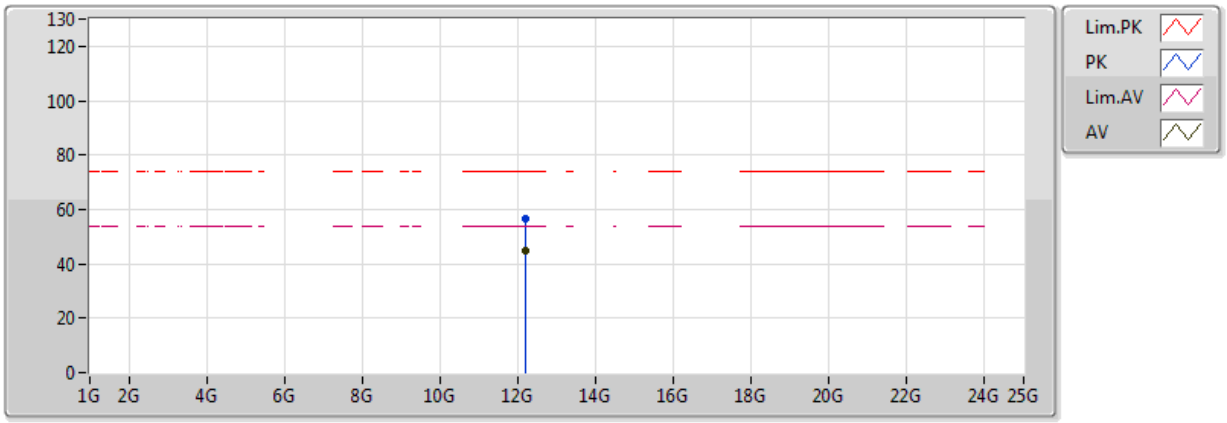


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.18576G	50.59	54.00	-3.41	14.37	3	V	6	1.49	-
PK	12.18604G	58.73	74.00	-15.27	14.37	3	V	6	1.49	-

802.11b_(1Mbps)_4TX

2437MHz_TX

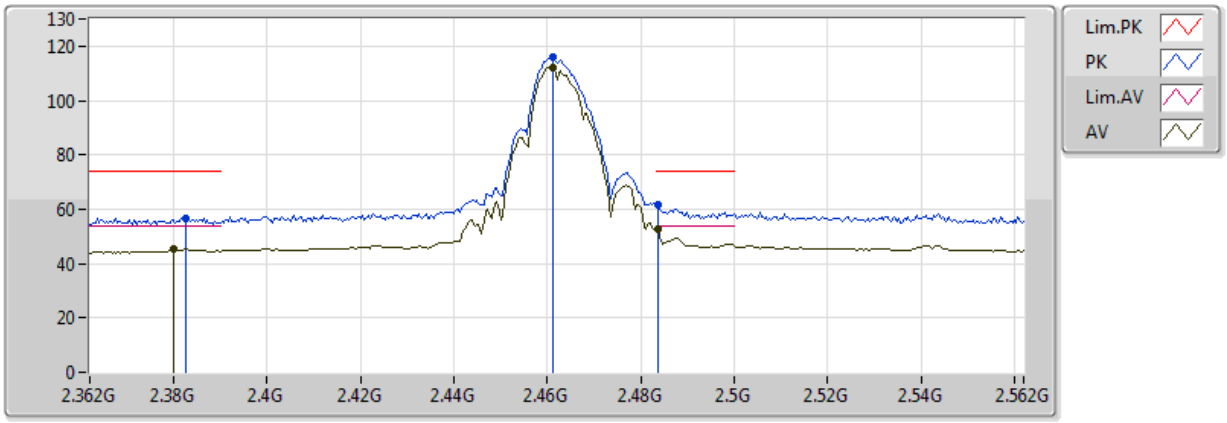


20170330
EUT Y_4TX
Setting 1F
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.1858G	44.61	54.00	-9.39	14.37	3	H	231	1.50	-
PK	12.18564G	56.68	74.00	-17.32	14.37	3	H	231	1.50	-

802.11b_(1Mbps)_4TX

2462MHz_TX

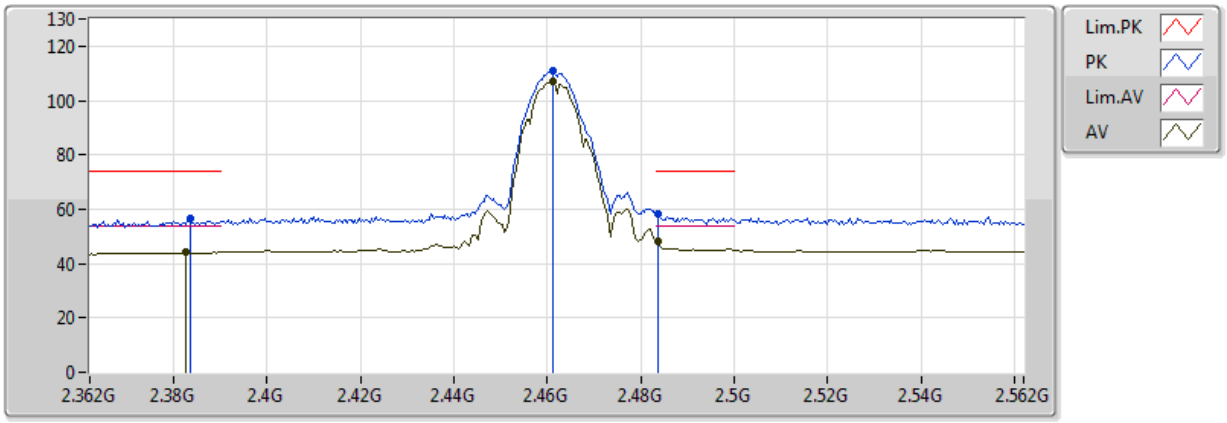


20170330
EUT Y_4TX
Setting 1E
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.38G	45.15	54.00	-8.85	31.89	3	V	84	1.50	-
AV	2.4612G	112.30	Inf	-Inf	32.09	3	V	84	1.50	-
AV	2.4836G	52.56	54.00	-1.44	32.14	3	V	84	1.50	-
PK	2.3824G	56.75	74.00	-17.25	31.89	3	V	84	1.50	-
PK	2.4612G	116.20	Inf	-Inf	32.09	3	V	84	1.50	-
PK	2.4836G	61.46	74.00	-12.54	32.14	3	V	84	1.50	-

802.11b_(1Mbps)_4TX

2462MHz_TX

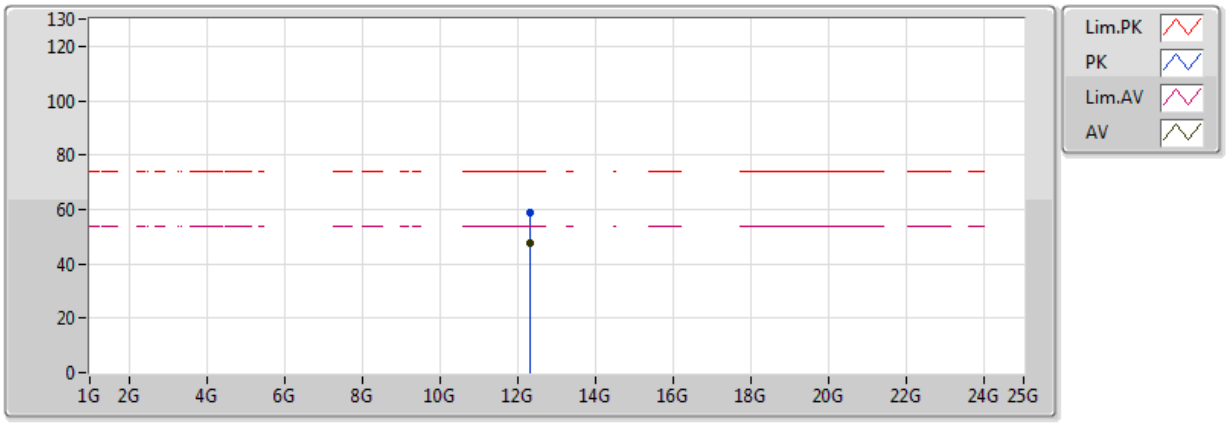


20170330
EUT Y_4TX
Setting 1E
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3824G	44.12	54.00	-9.88	31.89	3	H	23	2.15	-
AV	2.4612G	107.10	Inf	-Inf	32.09	3	H	23	2.15	-
AV	2.4836G	48.33	54.00	-5.67	32.14	3	H	23	2.15	-
PK	2.3836G	56.39	74.00	-17.61	31.90	3	H	23	2.15	-
PK	2.4612G	110.94	Inf	-Inf	32.09	3	H	23	2.15	-
PK	2.4836G	58.10	74.00	-15.90	32.14	3	H	23	2.15	-

802.11b_(1Mbps)_4TX

2462MHz_TX

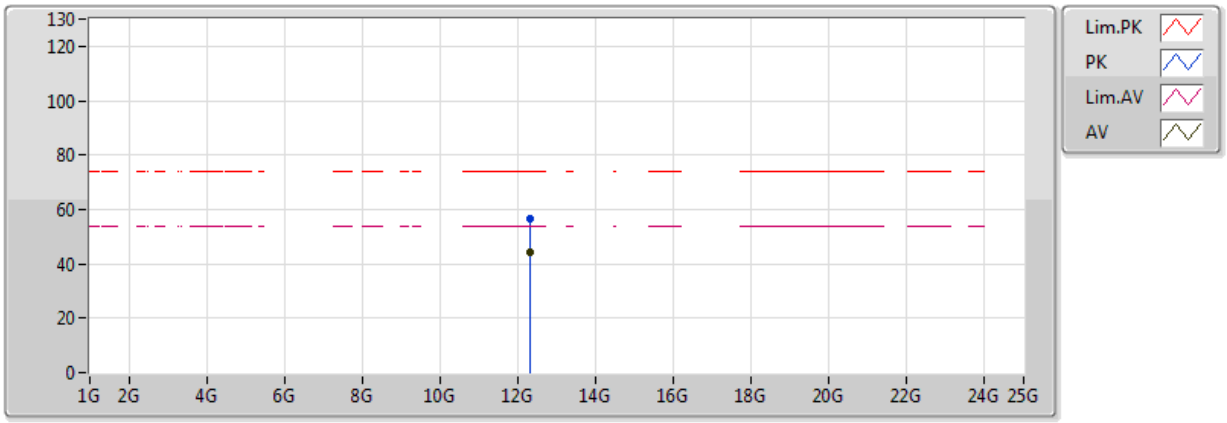


20170330
EUT Y_4TX
Setting 1E
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.31076G	47.86	54.00	-6.14	14.66	3	V	8	1.36	-
PK	12.31092G	58.61	74.00	-15.39	14.66	3	V	8	1.36	-

802.11b_(1Mbps)_4TX

2462MHz_TX

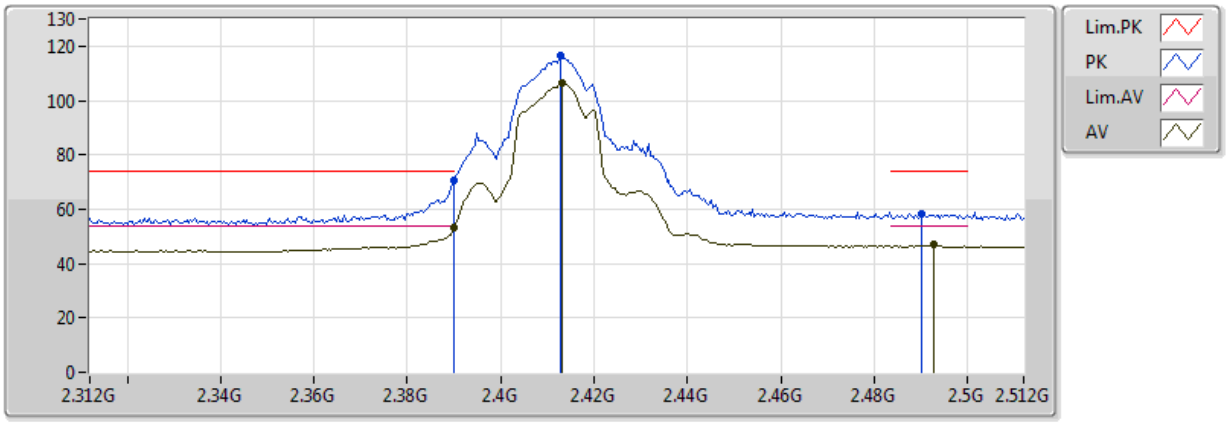


20170330
EUT Y_4TX
Setting 1E
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.31092G	44.07	54.00	-9.93	14.66	3	H	328	1.41	-
PK	12.30892G	56.74	74.00	-17.26	14.66	3	H	328	1.41	-

802.11g_(6Mbps)_4TX

2412MHz_TX

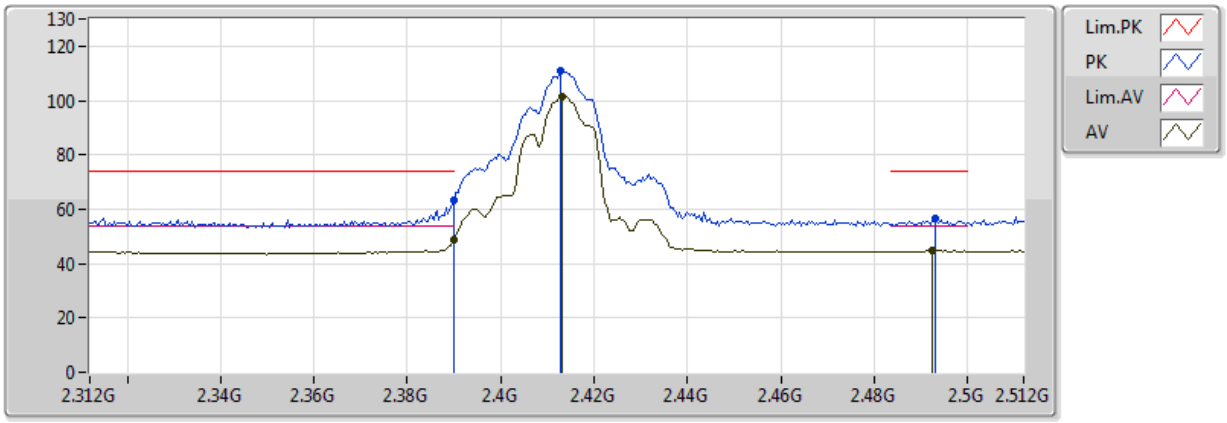


20170330
EUT Y_4TX
Setting 1C
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	52.98	54.00	-1.02	31.91	3	V	83	1.40	-
AV	2.4132G	106.49	Inf	-Inf	31.97	3	V	83	1.40	-
AV	2.4928G	46.80	54.00	-7.20	32.16	3	V	83	1.40	-
PK	2.39G	70.67	74.00	-3.33	31.91	3	V	83	1.40	-
PK	2.4128G	116.45	Inf	-Inf	31.97	3	V	83	1.40	-
PK	2.49G	58.11	74.00	-15.89	32.16	3	V	83	1.40	-

802.11g_(6Mbps)_4TX

2412MHz_TX

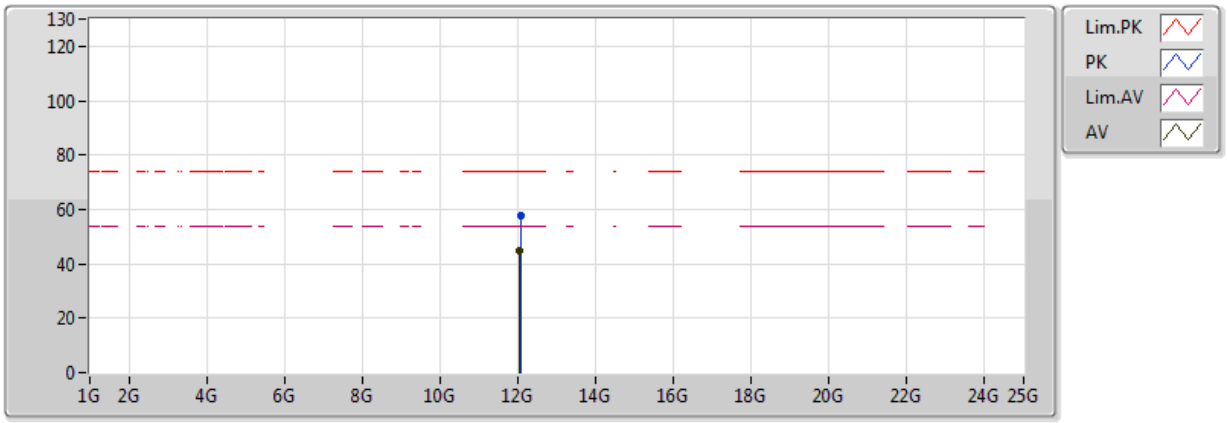


20170330
EUT Y_4TX
Setting 1C
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	48.98	54.00	-5.02	31.91	3	H	318	2.58	-
AV	2.4132G	101.63	Inf	-Inf	31.97	3	H	318	2.58	-
AV	2.4924G	44.80	54.00	-9.20	32.16	3	H	318	2.58	-
PK	2.39G	63.51	74.00	-10.49	31.91	3	H	318	2.58	-
PK	2.4128G	110.80	Inf	-Inf	31.97	3	H	318	2.58	-
PK	2.4932G	56.50	74.00	-17.50	32.16	3	H	318	2.58	-

802.11g_(6Mbps)_4TX

2412MHz_TX

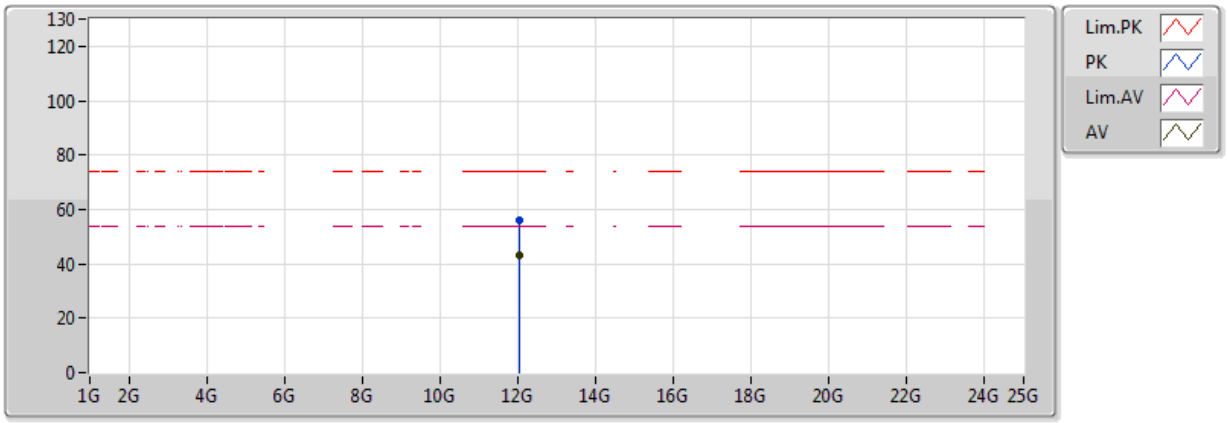


20170330
EUT Y_4TX
Setting 1C
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.05788G	44.73	54.00	-9.27	14.07	3	V	29	2.69	-
PK	12.06432G	57.72	74.00	-16.28	14.09	3	V	29	2.69	-

802.11g_(6Mbps)_4TX

2412MHz_TX

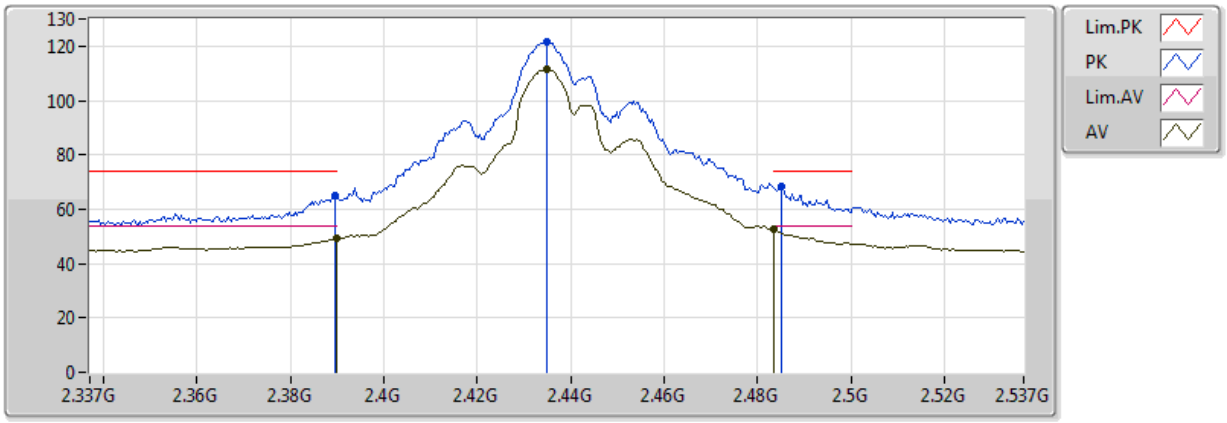


20170330
EUT Y_4TX
Setting 1C
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.05744G	43.10	54.00	-10.90	14.07	3	H	235	2.82	-
PK	12.05248G	56.12	74.00	-17.88	14.06	3	H	235	2.82	-

802.11g_(6Mbps)_4TX

2437MHz_TX

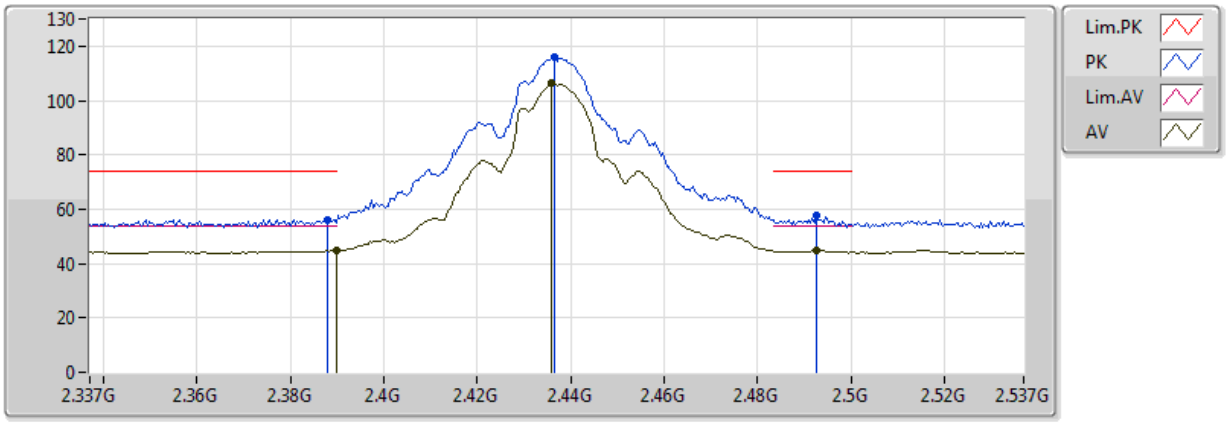


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	49.36	54.00	-4.64	31.04	3	V	129	1.17	-
AV	2.435G	111.65	Inf	-Inf	30.98	3	V	129	1.17	-
AV	2.483502G	52.55	54.00	-1.45	30.92	3	V	129	1.17	-
PK	2.3894G	64.86	74.00	-9.14	31.04	3	V	129	1.17	-
PK	2.435G	121.53	Inf	-Inf	30.98	3	V	129	1.17	-
PK	2.485G	68.11	74.00	-5.89	30.92	3	V	129	1.17	-

802.11g_(6Mbps)_4TX

2437MHz_TX

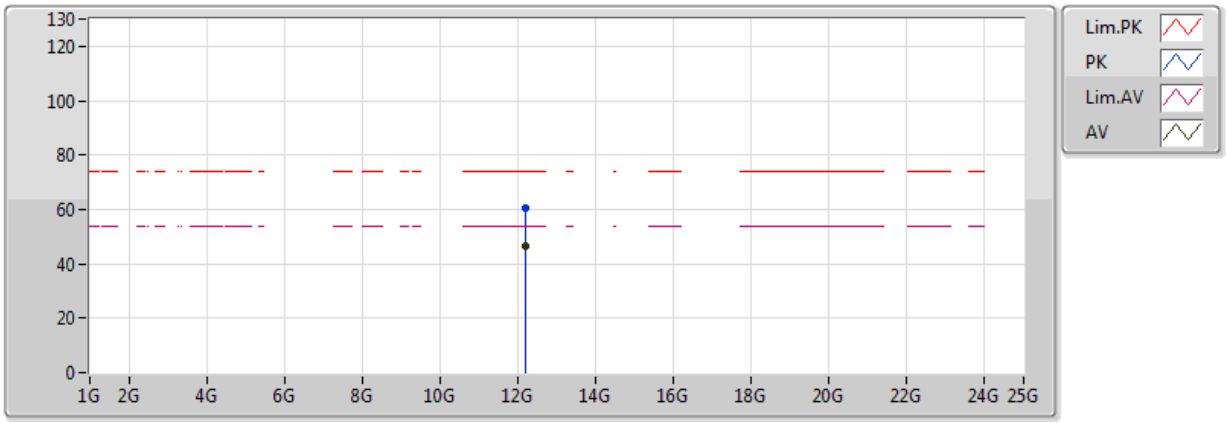


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3898G	44.76	54.00	-9.24	31.04	3	H	10	2.59	-
AV	2.4358G	106.32	Inf	-Inf	30.98	3	H	10	2.59	-
AV	2.4926G	44.68	54.00	-9.32	30.91	3	H	10	2.59	-
PK	2.3878G	56.06	74.00	-17.94	31.04	3	H	10	2.59	-
PK	2.4366G	116.08	Inf	-Inf	30.98	3	H	10	2.59	-
PK	2.4926G	57.45	74.00	-16.55	30.91	3	H	10	2.59	-

802.11g_(6Mbps)_4TX

2437MHz_TX

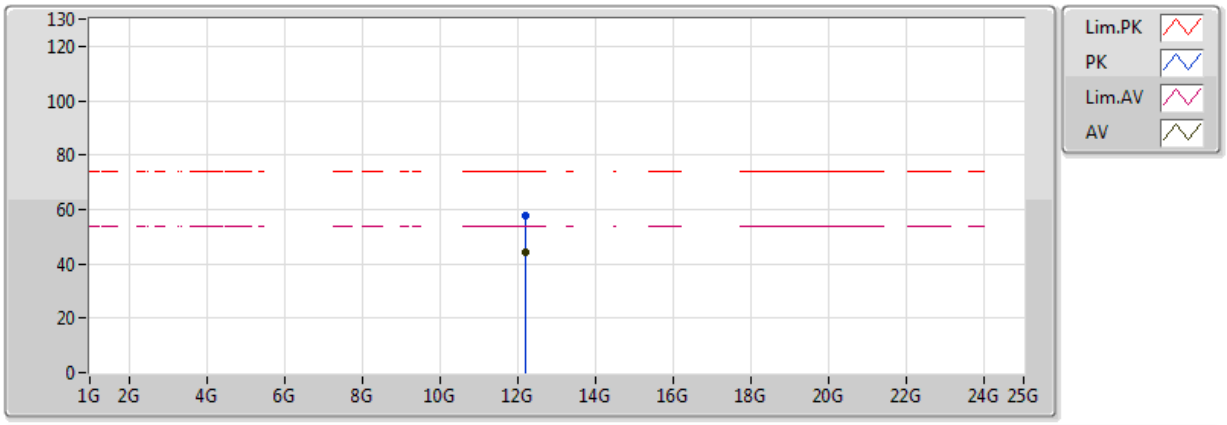


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.18136G	46.78	54.00	-7.22	12.75	3	V	2	1.50	-
PK	12.18116G	60.32	74.00	-13.68	12.74	3	V	2	1.50	-

802.11g_(6Mbps)_4TX

2437MHz_TX

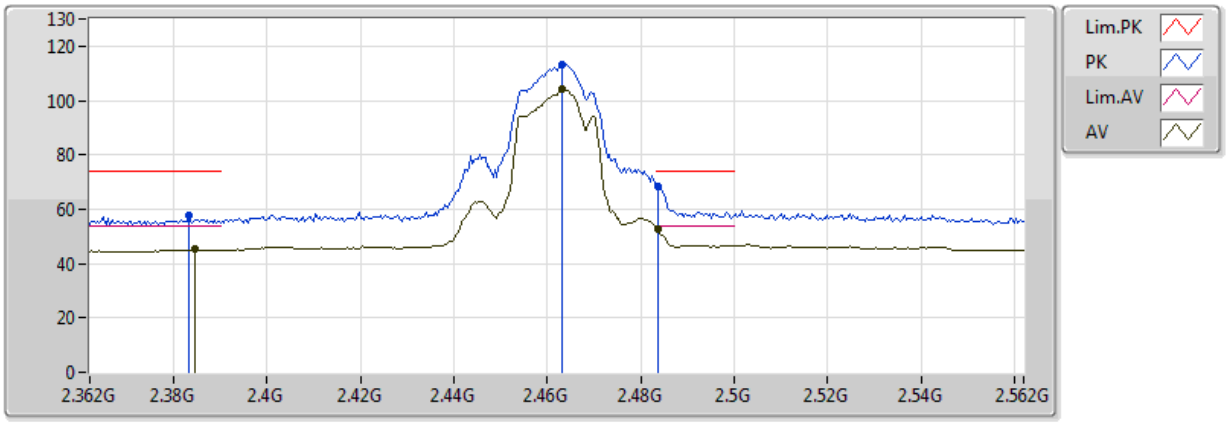


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.18158G	44.02	54.00	-9.98	12.75	3	H	194	2.22	-
PK	12.18202G	57.70	74.00	-16.30	12.75	3	H	194	2.22	-

802.11g_(6Mbps)_4TX

2462MHz_TX

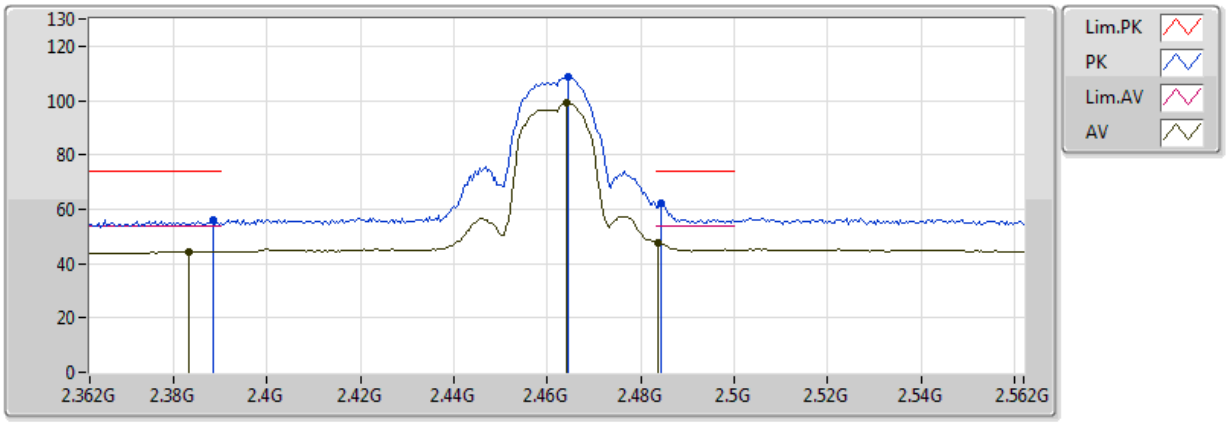


20170330
EUT Y_4TX
Setting 17
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3844G	45.17	54.00	-8.83	31.90	3	V	85	1.51	-
AV	2.4632G	104.12	Inf	-Inf	32.09	3	V	85	1.51	-
AV	2.4836G	52.86	54.00	-1.14	32.14	3	V	85	1.51	-
PK	2.3832G	57.45	74.00	-16.55	31.90	3	V	85	1.51	-
PK	2.4632G	113.42	Inf	-Inf	32.09	3	V	85	1.51	-
PK	2.4836G	68.33	74.00	-5.67	32.14	3	V	85	1.51	-

802.11g_(6Mbps)_4TX

2462MHz_TX

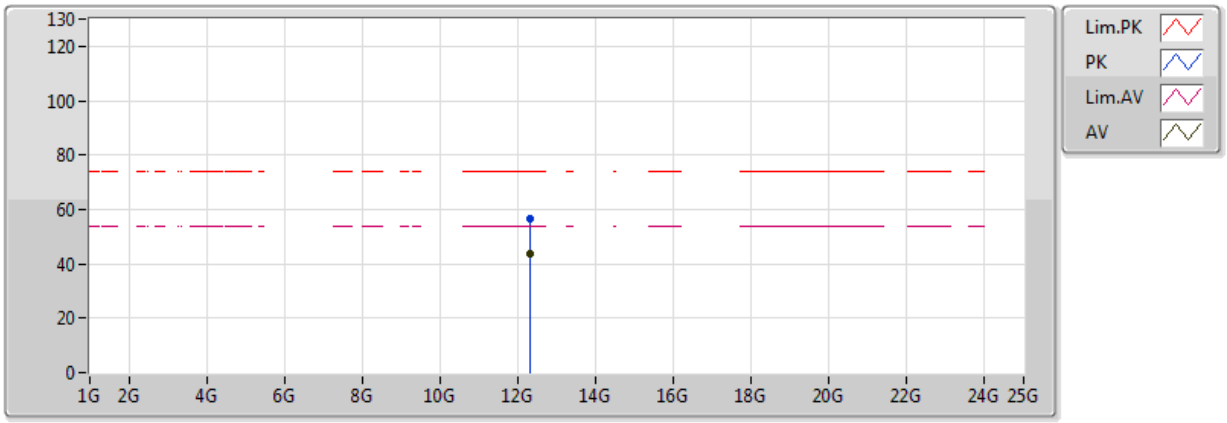


20170330
EUT Y_4TX
Setting 17
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3832G	44.39	54.00	-9.61	31.90	3	H	163	2.60	-
AV	2.464G	99.06	Inf	-Inf	32.09	3	H	163	2.60	-
AV	2.4836G	47.71	54.00	-6.29	32.14	3	H	163	2.60	-
PK	2.3884G	56.02	74.00	-17.98	31.91	3	H	163	2.60	-
PK	2.4644G	108.84	Inf	-Inf	32.09	3	H	163	2.60	-
PK	2.4844G	62.13	74.00	-11.87	32.14	3	H	163	2.60	-

802.11g_(6Mbps)_4TX

2462MHz_TX

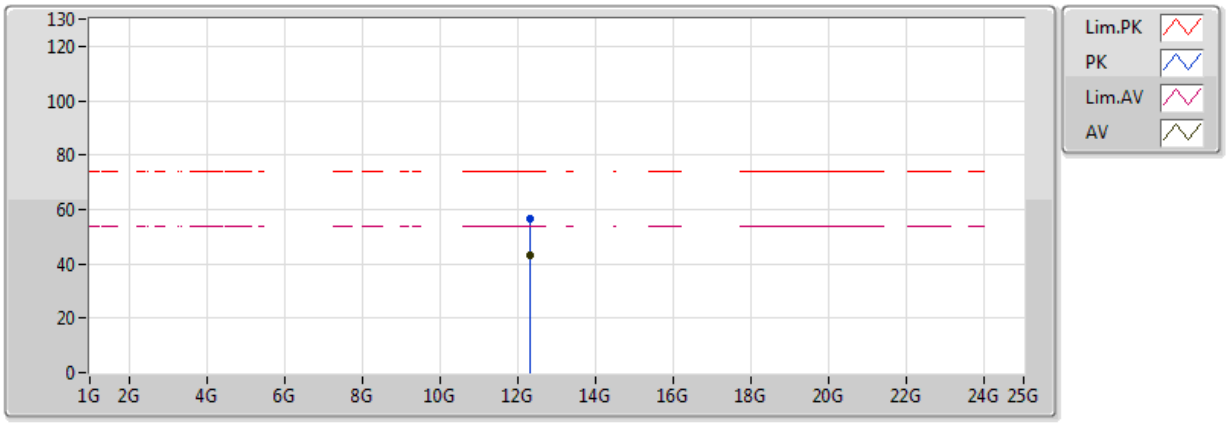


20170330
EUT Y_4TX
Setting 17
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.30744G	43.43	54.00	-10.57	14.66	3	V	346	1.50	-
PK	12.31004G	56.75	74.00	-17.25	14.66	3	V	346	1.50	-

802.11g_(6Mbps)_4TX

2462MHz_TX

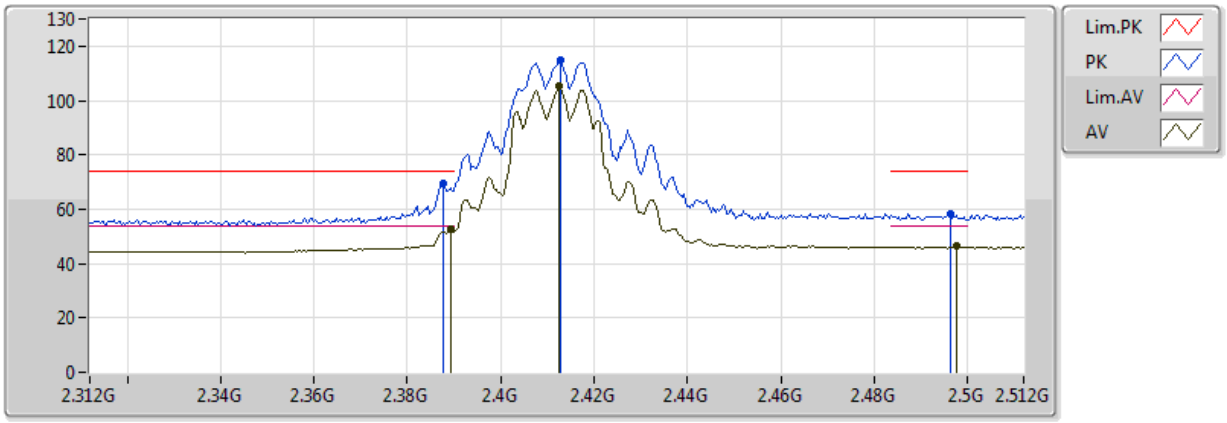


20170330
EUT Y_4TX
Setting 17
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.3068G	43.33	54.00	-10.67	14.65	3	H	303	1.48	-
PK	12.30902G	56.36	74.00	-17.64	14.66	3	H	303	1.48	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

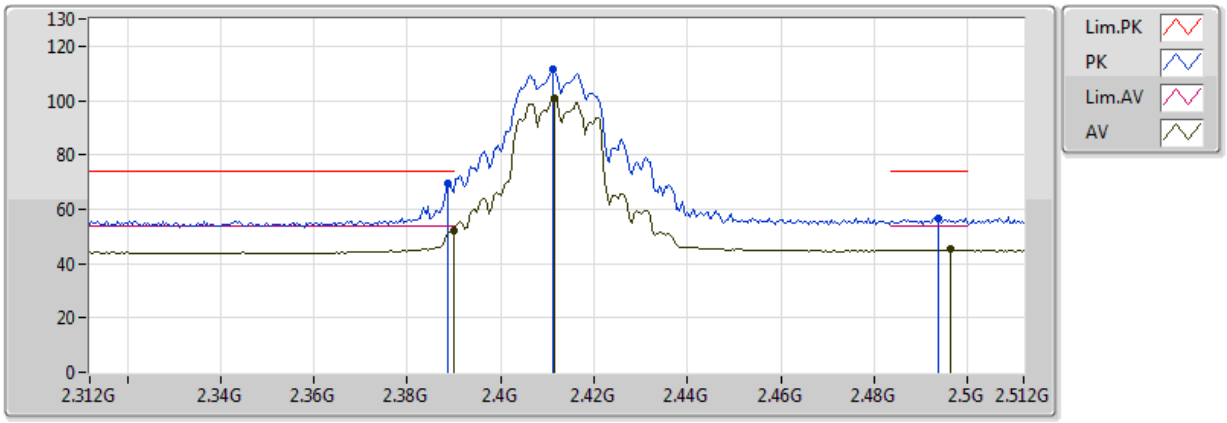


20170330
EUT Y_4TX
Setting 1D
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3892G	52.58	54.00	-1.42	31.91	3	V	84	1.40	-
AV	2.4124G	105.59	Inf	-Inf	31.97	3	V	84	1.40	-
AV	2.4976G	46.23	54.00	-7.77	32.17	3	V	84	1.40	-
PK	2.3876G	69.34	74.00	-4.66	31.91	3	V	84	1.40	-
PK	2.4128G	115.03	Inf	-Inf	31.97	3	V	84	1.40	-
PK	2.4964G	58.42	74.00	-15.58	32.17	3	V	84	1.40	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

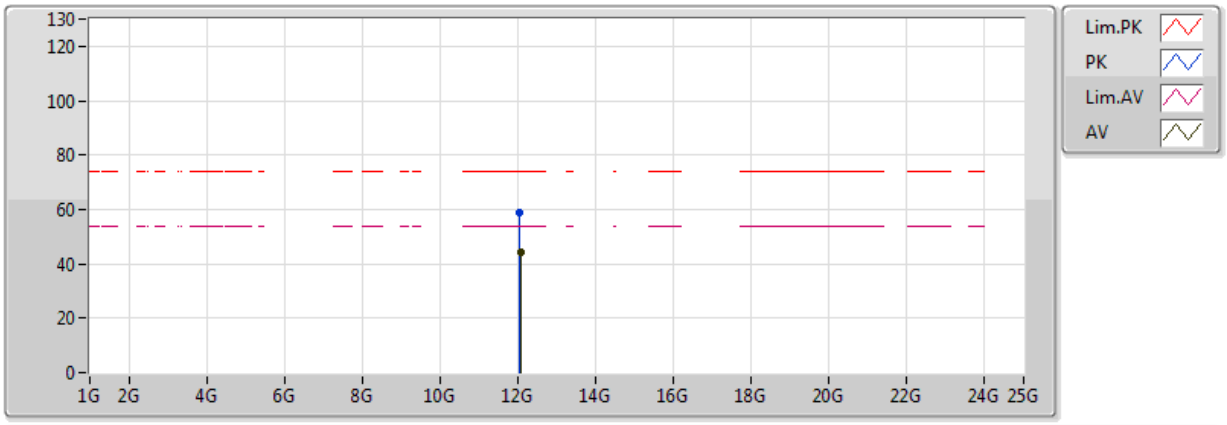


20170330
EUT Y_4TX
Setting 1D
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	51.90	54.00	-2.10	31.91	3	H	183	1.90	-
AV	2.4116G	101.11	Inf	-Inf	31.97	3	H	183	1.90	-
AV	2.4964G	45.18	54.00	-8.82	32.17	3	H	183	1.90	-
PK	2.3888G	69.33	74.00	-4.67	31.91	3	H	183	1.90	-
PK	2.4112G	111.56	Inf	-Inf	31.97	3	H	183	1.90	-
PK	2.4936G	56.76	74.00	-17.24	32.16	3	H	183	1.90	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

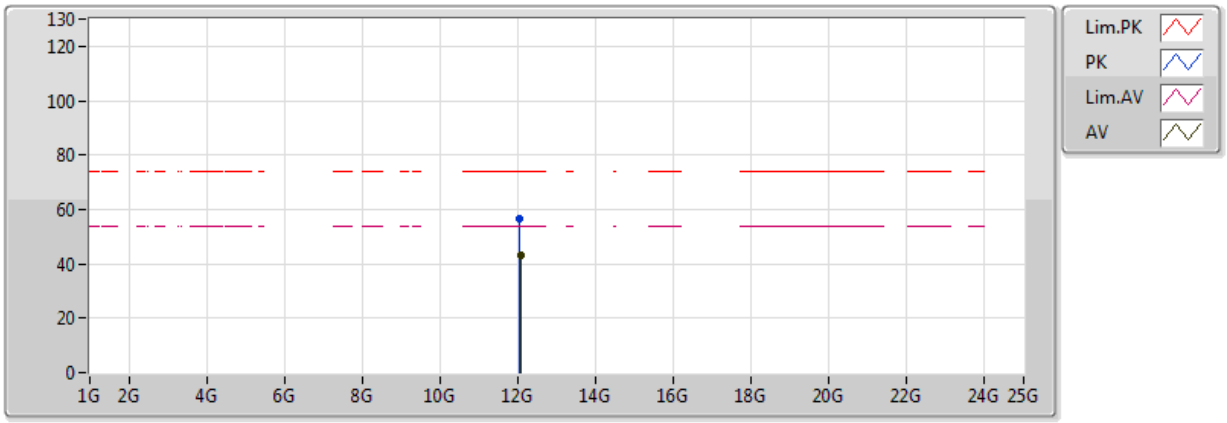


20170330
EUT Y_4TX
Setting 1D
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.06284G	44.10	54.00	-9.90	14.09	3	V	23	2.81	-
PK	12.0579G	58.71	74.00	-15.29	14.07	3	V	23	2.81	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2412MHz_TX

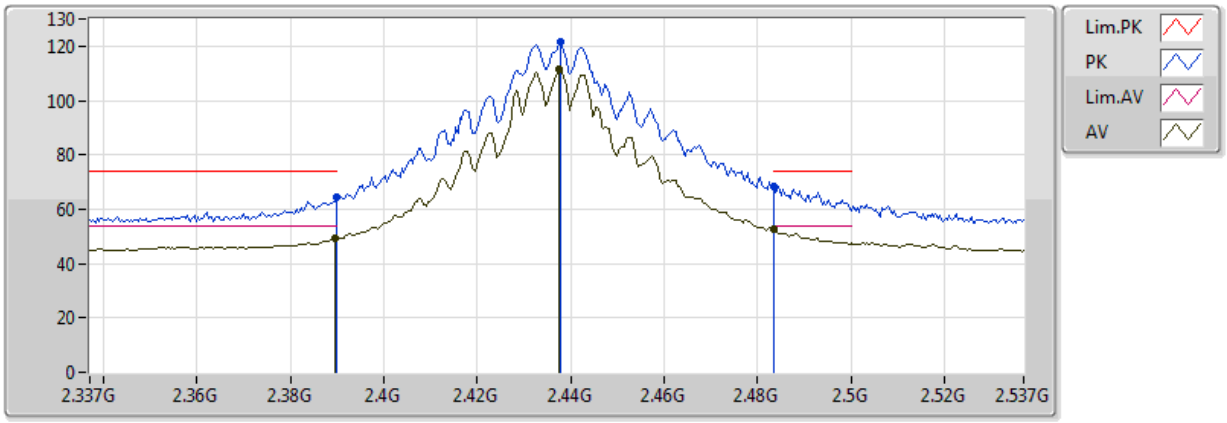


20170330
EUT Y_4TX
Setting 1D
03-P-2
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.062258G	43.33	54.00	-10.67	14.09	3	H	29	2.85	-
PK	12.057702G	56.48	74.00	-17.52	14.07	3	H	29	2.85	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

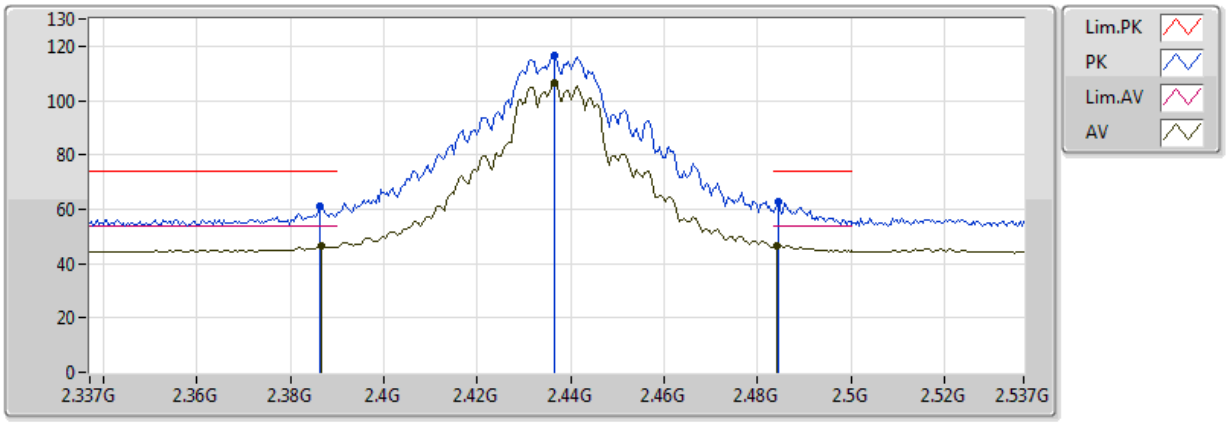


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	49.09	54.00	-4.91	31.04	3	V	88	1.10	-
AV	2.4374G	111.54	Inf	-Inf	30.98	3	V	88	1.10	-
AV	2.483502G	52.67	54.00	-1.33	30.92	3	V	88	1.10	-
PK	2.3898G	64.64	74.00	-9.36	31.04	3	V	88	1.10	-
PK	2.4378G	121.49	Inf	-Inf	30.97	3	V	88	1.10	-
PK	2.483502G	68.37	74.00	-5.63	30.92	3	V	88	1.10	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

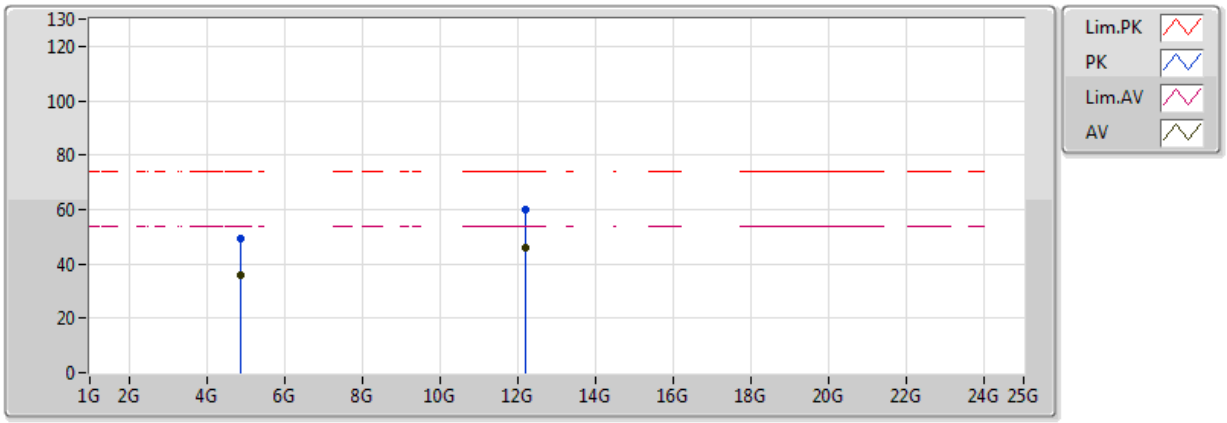


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3866G	46.67	54.00	-7.33	31.04	3	H	171	2.28	-
AV	2.4366G	106.67	Inf	-Inf	30.98	3	H	171	2.28	-
AV	2.4842G	46.74	54.00	-7.26	30.92	3	H	171	2.28	-
PK	2.3862G	60.95	74.00	-13.05	31.04	3	H	171	2.28	-
PK	2.4366G	116.46	Inf	-Inf	30.98	3	H	171	2.28	-
PK	2.4846G	62.69	74.00	-11.31	30.92	3	H	171	2.28	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

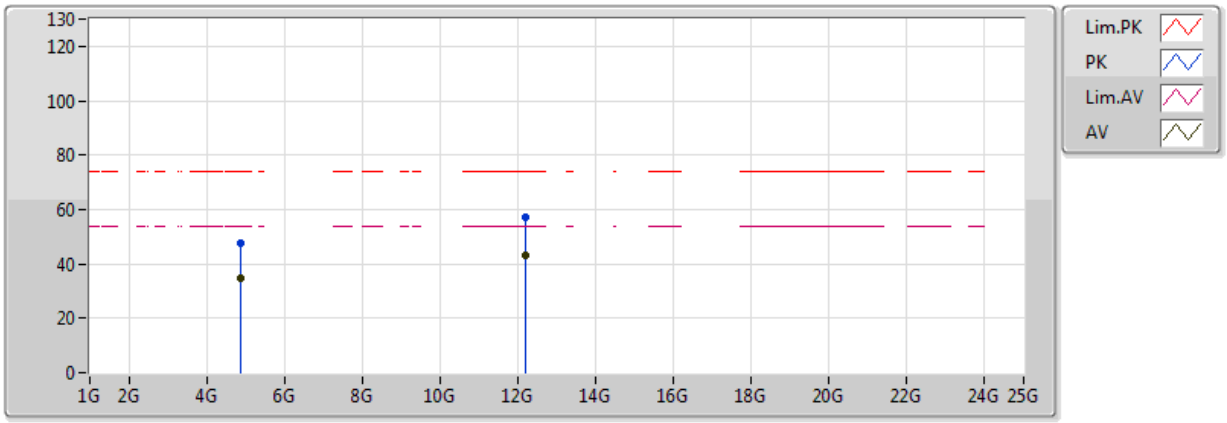


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8719G	35.86	54.00	-18.14	3.55	3	V	186	1.89	-
AV	12.18382G	45.88	54.00	-8.12	12.75	3	V	1	1.50	-
PK	4.87226G	49.24	74.00	-24.76	3.55	3	V	186	1.89	-
PK	12.18406G	59.83	74.00	-14.17	12.75	3	V	1	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2437MHz_TX

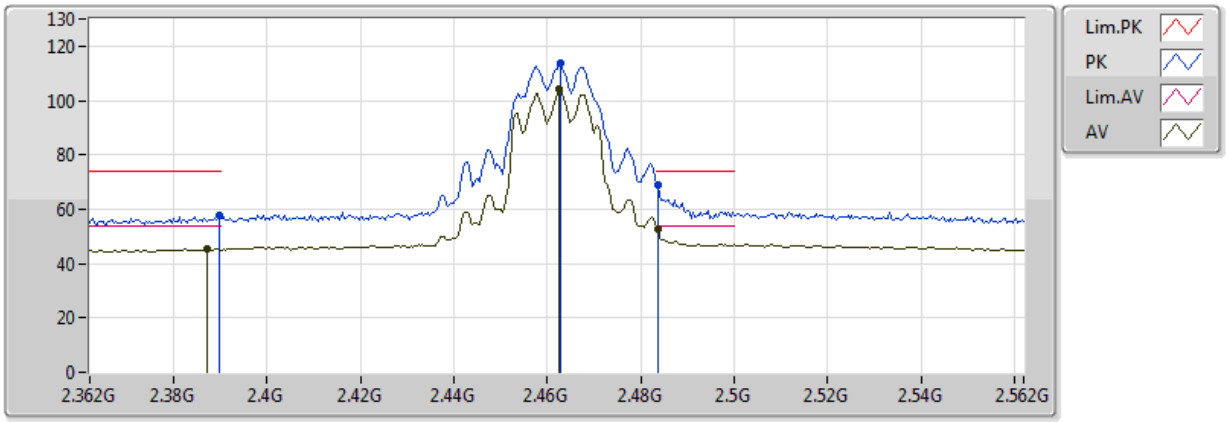


20170405
EUT Y_4TX
Setting 29
01-W-3
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87506G	34.72	54.00	-19.28	3.56	3	H	111	1.11	-
AV	12.18072G	43.25	54.00	-10.75	12.74	3	H	226	1.50	-
PK	4.87538G	47.89	74.00	-26.11	3.56	3	H	111	1.11	-
PK	12.18516G	57.10	74.00	-16.90	12.75	3	H	226	1.50	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

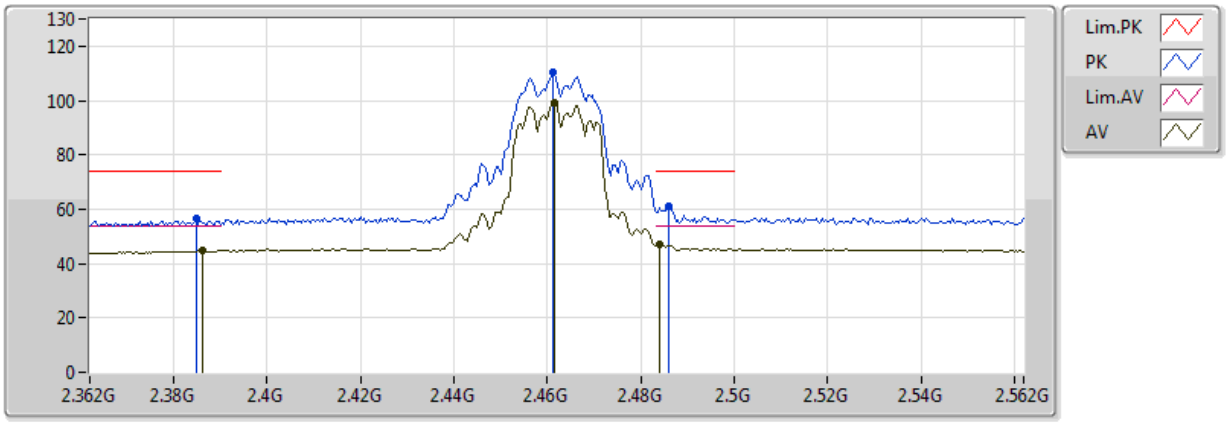


20170330
EUT Y_4TX
Setting 19
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3872G	45.32	54.00	-8.68	31.91	3	V	86	1.54	-
AV	2.4624G	104.18	Inf	-Inf	32.09	3	V	86	1.54	-
AV	2.4836G	52.78	54.00	-1.22	32.14	3	V	86	1.54	-
PK	2.3896G	57.45	74.00	-16.55	31.91	3	V	86	1.54	-
PK	2.4628G	113.81	Inf	-Inf	32.09	3	V	86	1.54	-
PK	2.4836G	68.90	74.00	-5.10	32.14	3	V	86	1.54	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

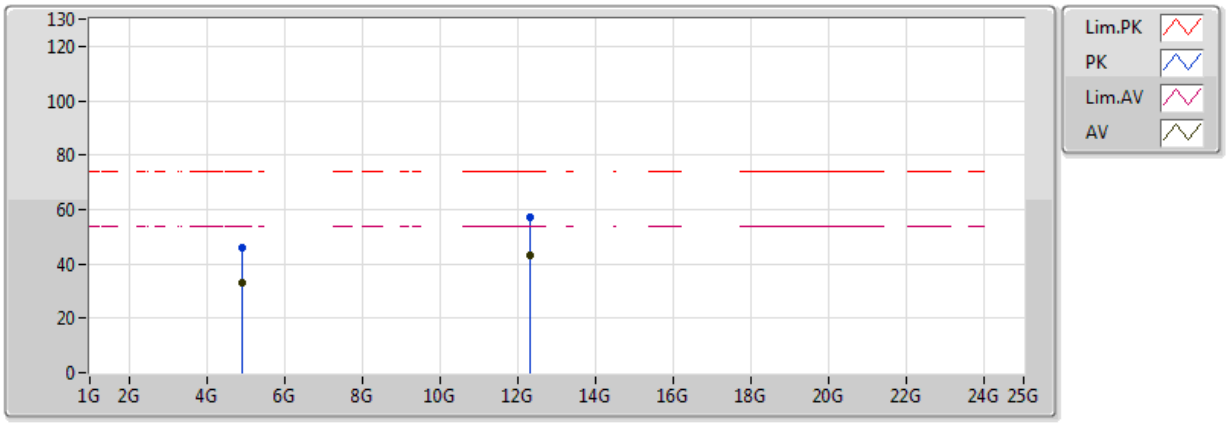


20170330
EUT Y_4TX
Setting 19
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.386G	44.79	54.00	-9.21	31.90	3	H	181	2.12	-
AV	2.4616G	99.43	Inf	-Inf	32.09	3	H	181	2.12	-
AV	2.484G	47.29	54.00	-6.71	32.14	3	H	181	2.12	-
PK	2.3848G	56.32	74.00	-17.68	31.90	3	H	181	2.12	-
PK	2.4612G	110.37	Inf	-Inf	32.09	3	H	181	2.12	-
PK	2.486G	61.20	74.00	-12.80	32.15	3	H	181	2.12	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

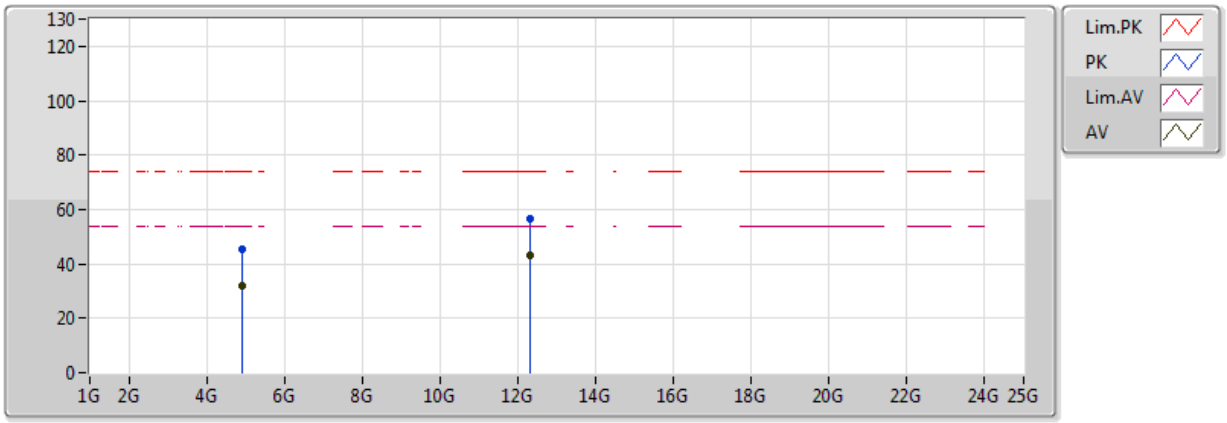


20170330
EUT Y_4TX
Setting 19
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91986G	33.24	54.00	-20.76	4.91	3	V	319	1.54	-
AV	12.2983G	43.21	54.00	-10.79	14.64	3	V	298	2.21	-
PK	4.93012G	45.74	74.00	-28.26	4.94	3	V	319	1.54	-
PK	12.31306G	56.94	74.00	-17.06	14.67	3	V	298	2.21	-

802.11ac VHT20_Nss1,(MCS0)_4TX

2462MHz_TX

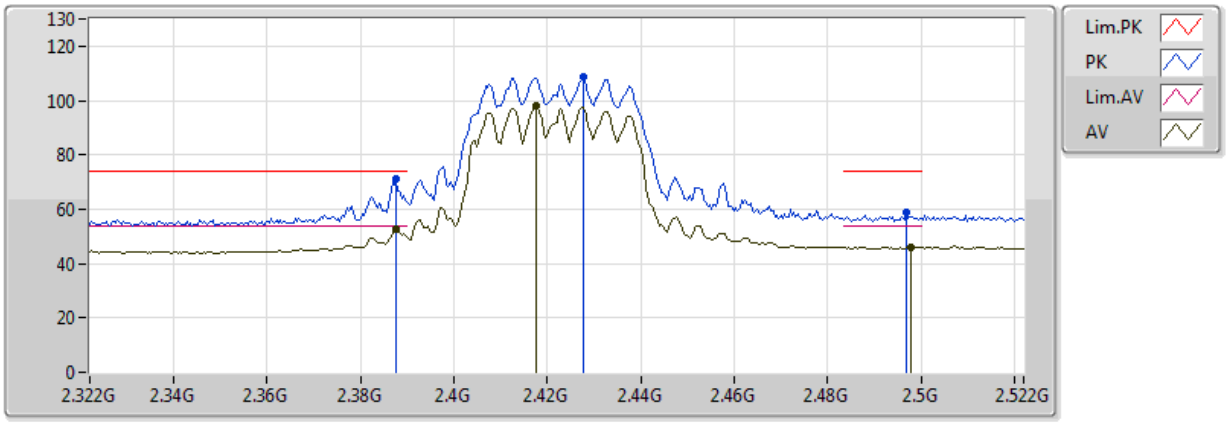


20170330
EUT Y_4TX
Setting 19
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92052G	32.16	54.00	-21.84	4.92	3	H	207	1.88	-
AV	12.2998G	43.27	54.00	-10.73	14.64	3	H	88	2.39	-
PK	4.92142G	45.28	74.00	-28.72	4.92	3	H	207	1.88	-
PK	12.32464G	56.68	74.00	-17.32	14.70	3	H	88	2.39	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

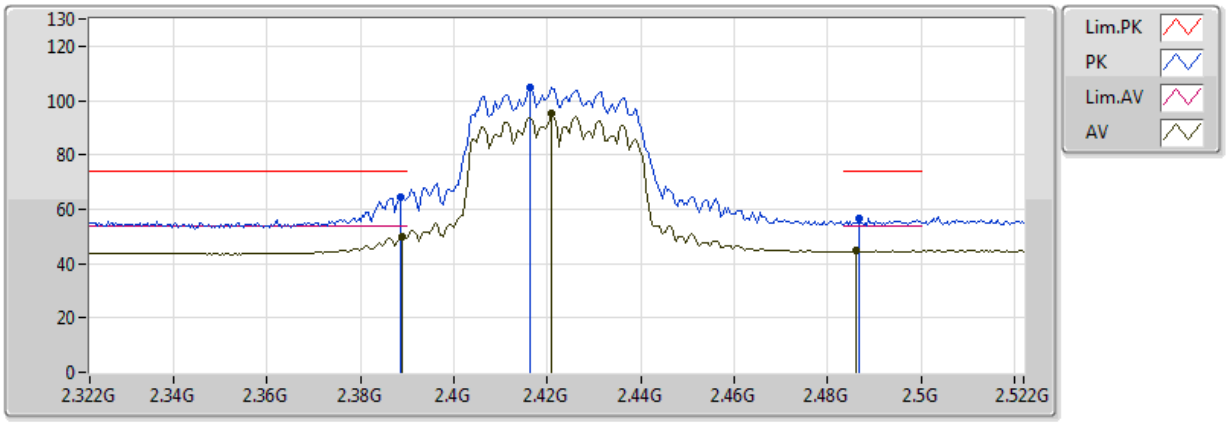


20170330
EUT Y_4TX
Setting 1A
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3876G	52.83	54.00	-1.17	31.91	3	V	83	1.41	-
AV	2.4176G	98.05	Inf	-Inf	31.98	3	V	83	1.41	-
AV	2.498G	45.97	54.00	-8.03	32.18	3	V	83	1.41	-
PK	2.3876G	71.16	74.00	-2.84	31.91	3	V	83	1.41	-
PK	2.4276G	108.68	Inf	-Inf	32.01	3	V	83	1.41	-
PK	2.4968G	58.78	74.00	-15.22	32.17	3	V	83	1.41	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

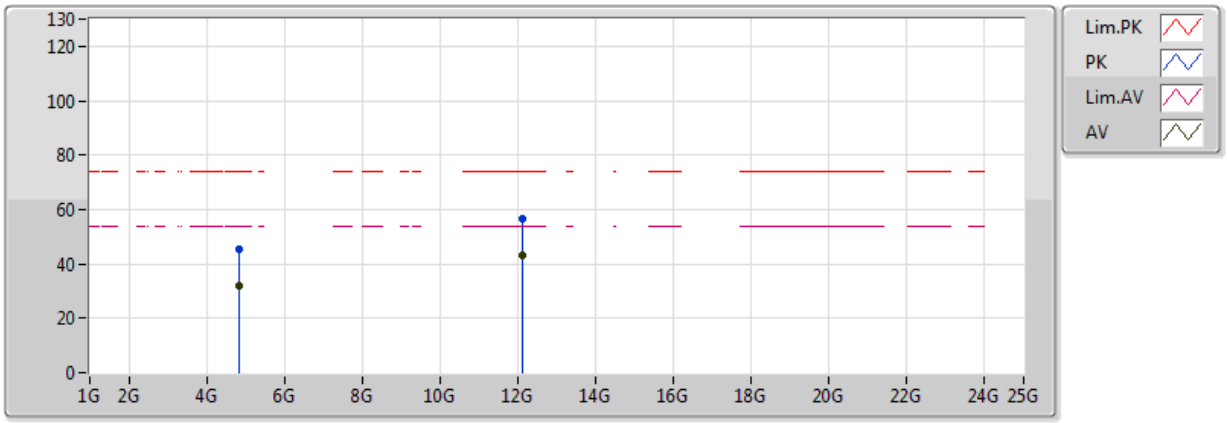


20170330
EUT Y_4TX
Setting 1A
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	50.10	54.00	-3.90	31.91	3	H	186	2.66	-
AV	2.4208G	95.14	Inf	-Inf	31.99	3	H	186	2.66	-
AV	2.486G	44.74	54.00	-9.26	32.15	3	H	186	2.66	-
PK	2.3884G	64.64	74.00	-9.36	31.91	3	H	186	2.66	-
PK	2.4164G	104.86	Inf	-Inf	31.98	3	H	186	2.66	-
PK	2.4868G	56.77	74.00	-17.23	32.15	3	H	186	2.66	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

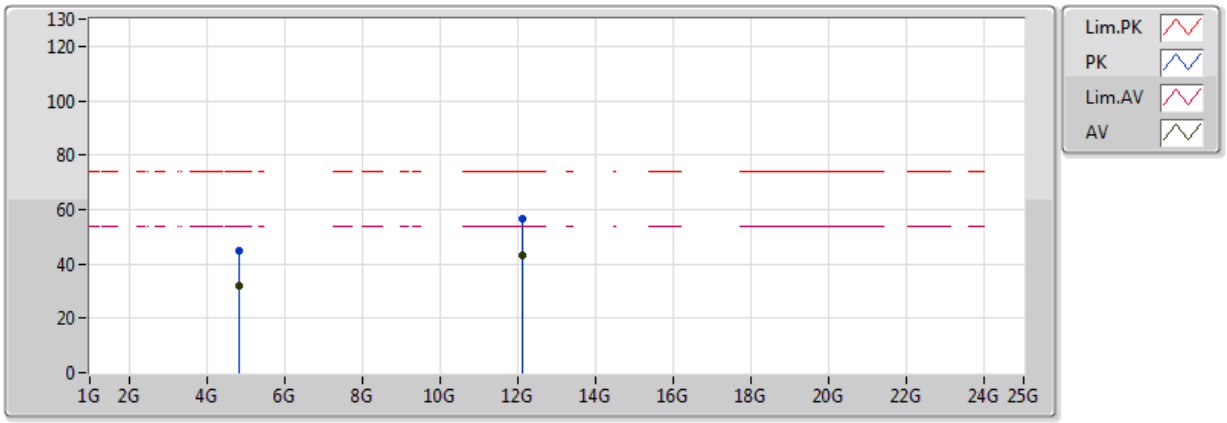


20170330
EUT Y_4TX
Setting 1A
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83242G	31.80	54.00	-22.20	4.73	3	V	247	1.22	-
AV	12.1133G	43.38	54.00	-10.62	14.20	3	V	70	1.68	-
PK	4.8293G	45.15	74.00	-28.85	4.73	3	V	247	1.22	-
PK	12.1238G	56.79	74.00	-17.21	14.23	3	V	70	1.68	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2422MHz_TX

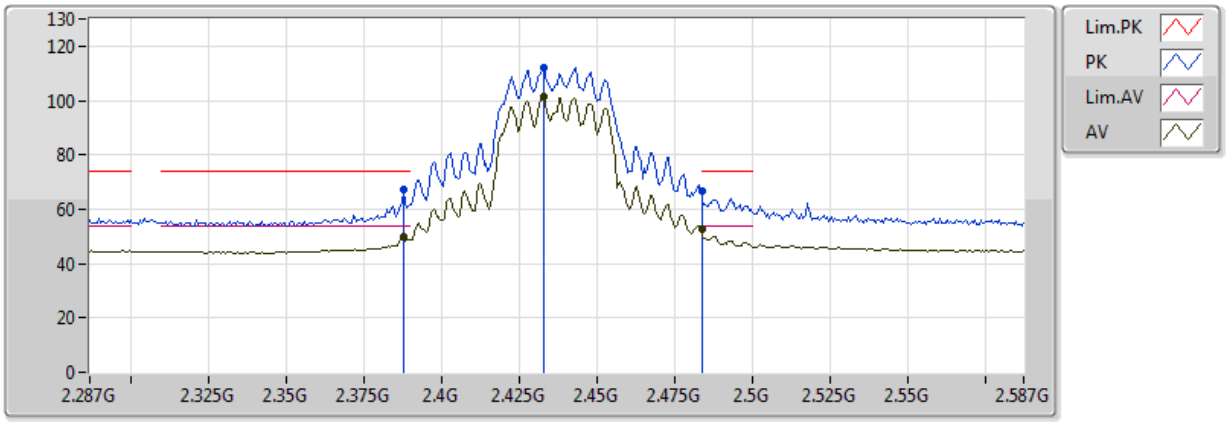


20170330
EUT Y_4TX
Setting 1A
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.84422G	31.68	54.00	-22.32	4.74	3	H	272	1.29	-
AV	12.10328G	43.26	54.00	-10.74	14.18	3	H	170	2.16	-
PK	4.8448G	44.67	74.00	-29.33	4.74	3	H	272	1.29	-
PK	12.1211G	56.58	74.00	-17.42	14.22	3	H	170	2.16	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

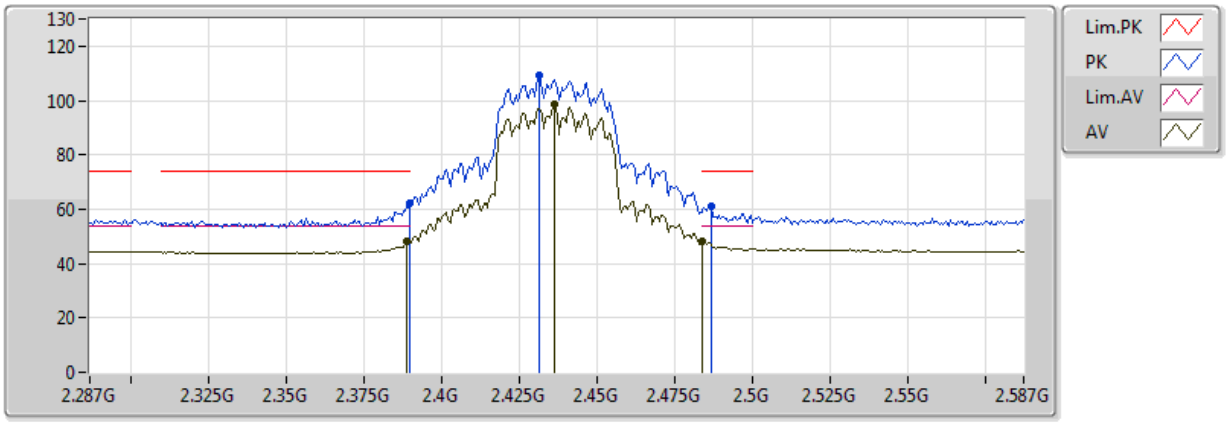


20170330
EUT Y_4TX
Setting 20
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3878G	49.81	54.00	-4.19	31.91	3	V	85	1.61	-
AV	2.4328G	101.50	Inf	-Inf	32.02	3	V	85	1.61	-
AV	2.483502G	52.65	54.00	-1.35	32.14	3	V	85	1.61	-
PK	2.3878G	67.43	74.00	-6.57	31.91	3	V	85	1.61	-
PK	2.4328G	112.05	Inf	-Inf	32.02	3	V	85	1.61	-
PK	2.483502G	66.52	74.00	-7.48	32.14	3	V	85	1.61	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

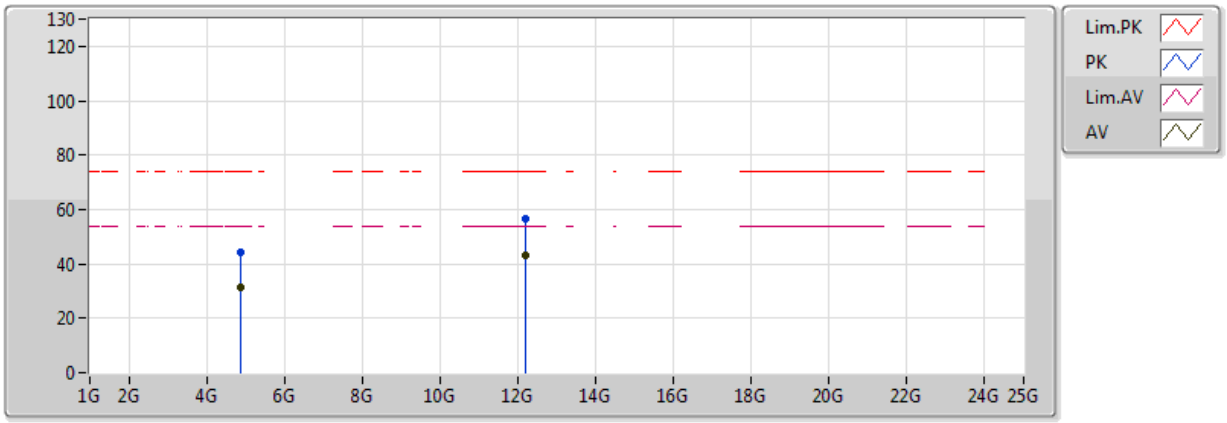


20170330
EUT Y_4TX
Setting 20
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	47.98	54.00	-6.02	31.91	3	H	183	2.35	-
AV	2.4364G	98.46	Inf	-Inf	32.03	3	H	183	2.35	-
AV	2.4838G	47.98	54.00	-6.02	32.14	3	H	183	2.35	-
PK	2.389998G	62.23	74.00	-11.77	31.91	3	H	183	2.35	-
PK	2.4316G	109.10	Inf	-Inf	32.02	3	H	183	2.35	-
PK	2.4868G	60.83	74.00	-13.17	32.15	3	H	183	2.35	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

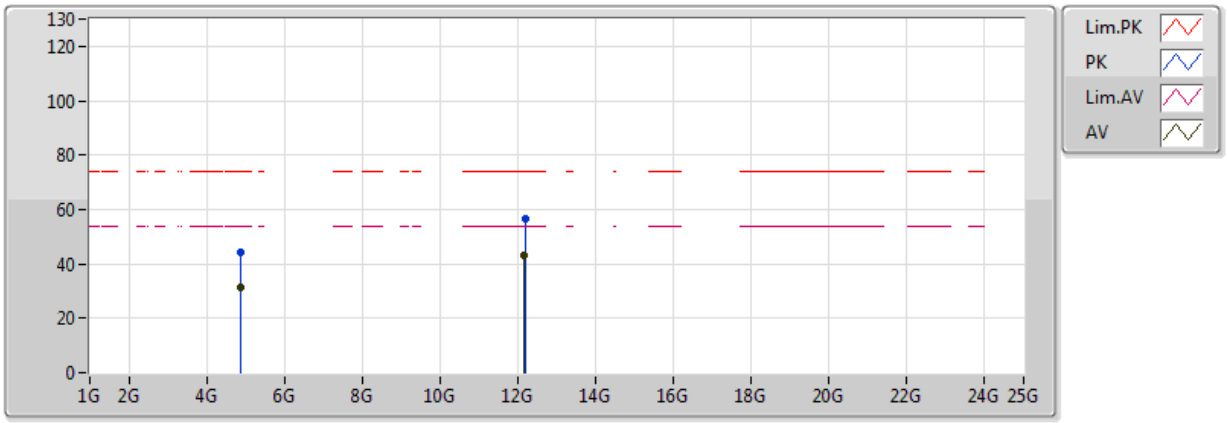


20170330
EUT Y_4TX
Setting 20
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8857G	31.50	54.00	-22.50	4.84	3	V	271	1.64	-
AV	12.18218G	43.29	54.00	-10.71	14.36	3	V	42	2.26	-
PK	4.87628G	44.35	74.00	-29.65	4.82	3	V	271	1.64	-
PK	12.17972G	56.70	74.00	-17.30	14.36	3	V	42	2.26	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2437MHz_TX

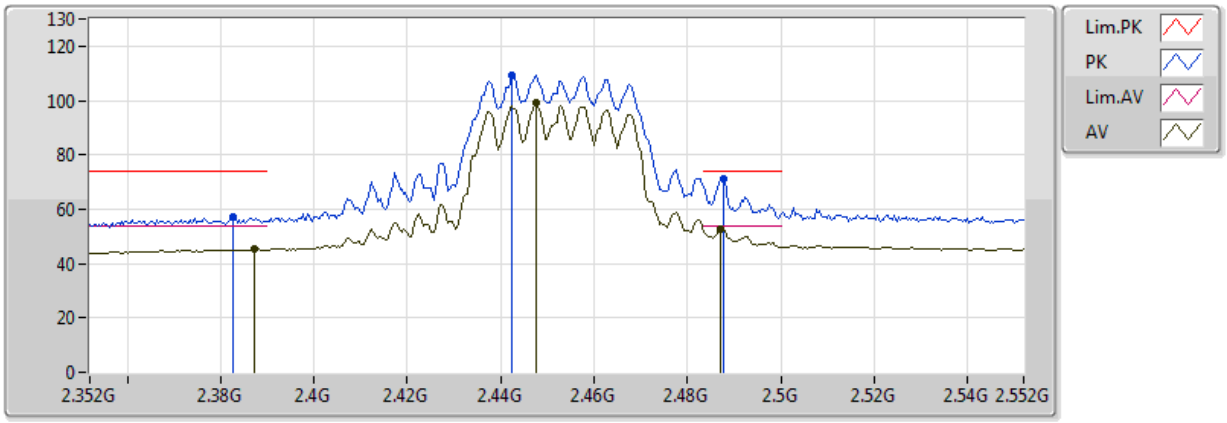


20170330
EUT Y_4TX
Setting 20
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88738G	31.43	54.00	-22.57	4.84	3	H	115	1.87	-
AV	12.1757G	43.04	54.00	-10.96	14.35	3	H	184	1.24	-
PK	4.87064G	44.40	74.00	-29.60	4.81	3	H	115	1.87	-
PK	12.19748G	56.66	74.00	-17.34	14.40	3	H	184	1.24	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

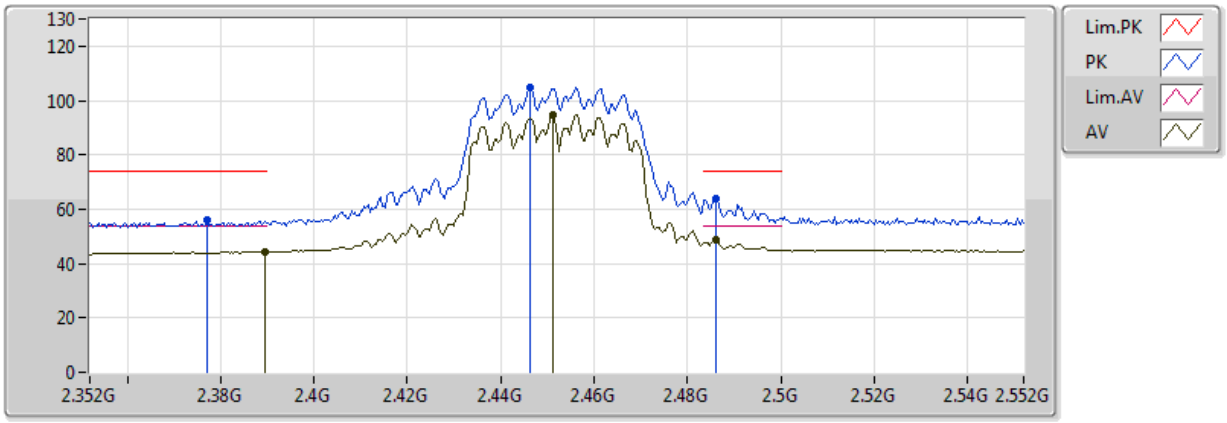


20170330
EUT Y_4TX
Setting 1B
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3872G	45.41	54.00	-8.59	31.91	3	V	97	1.20	-
AV	2.4476G	98.99	Inf	-Inf	32.05	3	V	97	1.20	-
AV	2.4872G	52.94	54.00	-1.06	32.15	3	V	97	1.20	-
PK	2.3828G	56.93	74.00	-17.07	31.90	3	V	97	1.20	-
PK	2.4424G	109.50	Inf	-Inf	32.04	3	V	97	1.20	-
PK	2.4876G	71.32	74.00	-2.68	32.15	3	V	97	1.20	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

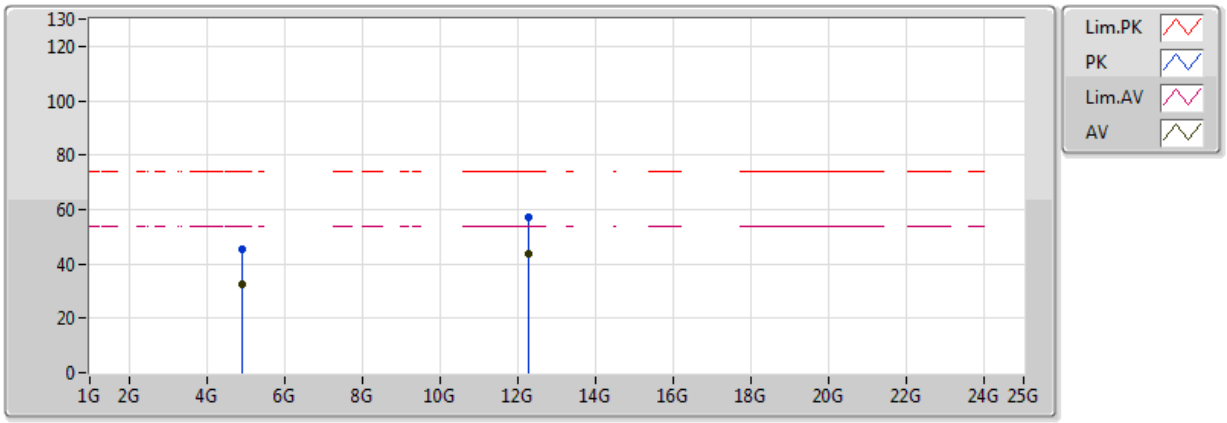


20170330
EUT Y_4TX
Setting 1B
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	44.34	54.00	-9.66	31.91	3	H	185	2.14	-
AV	2.4512G	94.75	Inf	-Inf	32.06	3	H	185	2.14	-
AV	2.486G	48.91	54.00	-5.09	32.15	3	H	185	2.14	-
PK	2.3772G	55.83	74.00	-18.17	31.88	3	H	185	2.14	-
PK	2.4464G	105.00	Inf	-Inf	32.05	3	H	185	2.14	-
PK	2.486G	63.93	74.00	-10.07	32.15	3	H	185	2.14	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

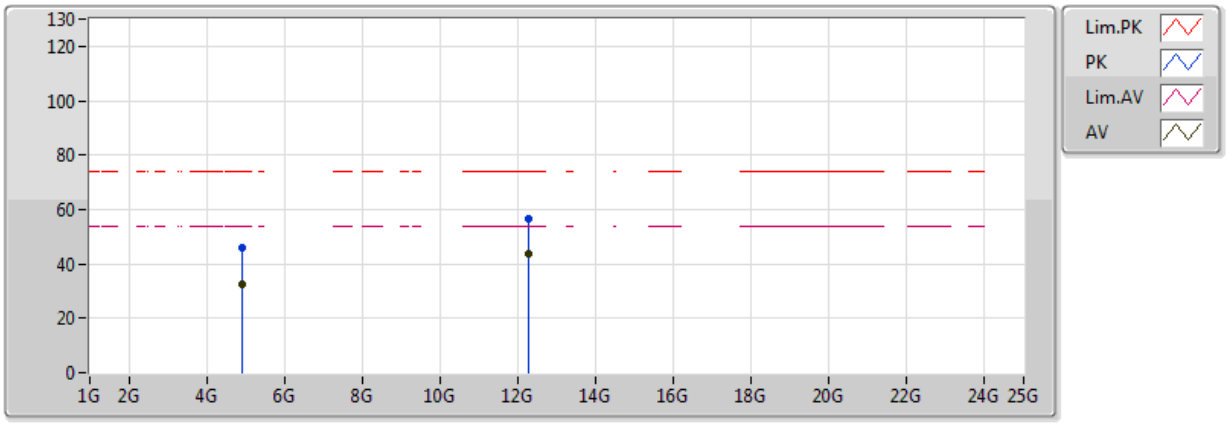


20170330
EUT Y_4TX
Setting 1B
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.919G	32.63	54.00	-21.37	4.91	3	V	307	1.37	-
AV	12.25898G	43.61	54.00	-10.39	14.54	3	V	185	2.41	-
PK	4.91414G	45.27	74.00	-28.73	4.90	3	V	307	1.37	-
PK	12.27344G	57.13	74.00	-16.87	14.58	3	V	185	2.41	-

802.11ac VHT40_Nss1,(MCS0)_4TX

2452MHz_TX

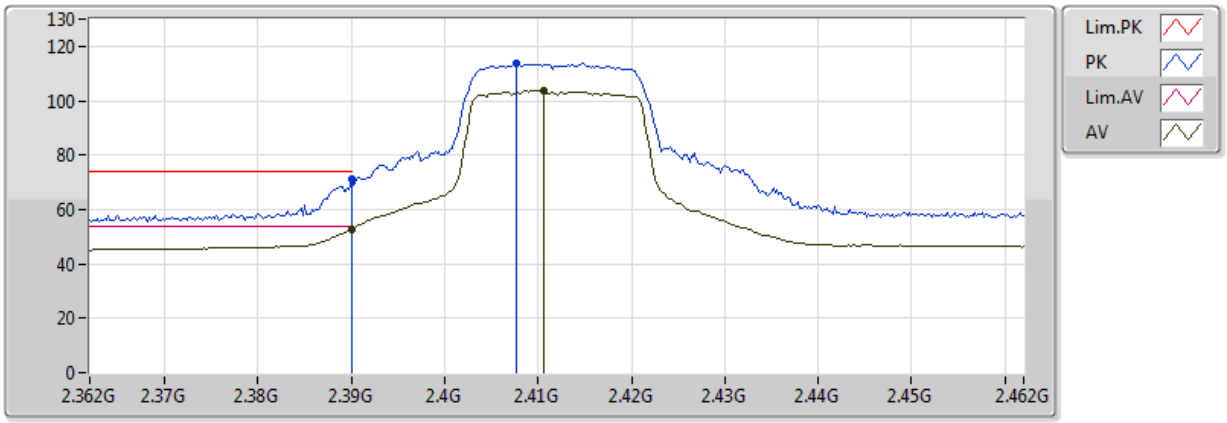


20170330
EUT Y_4TX
Setting 1B
03-S-6
FSP(100142)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91708G	32.31	54.00	-21.69	4.91	3	H	61	1.53	-
AV	12.25772G	43.57	54.00	-10.43	14.54	3	H	196	1.83	-
PK	4.90562G	45.79	74.00	-28.21	4.88	3	H	61	1.53	-
PK	12.25766G	56.86	74.00	-17.14	14.54	3	H	196	1.83	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

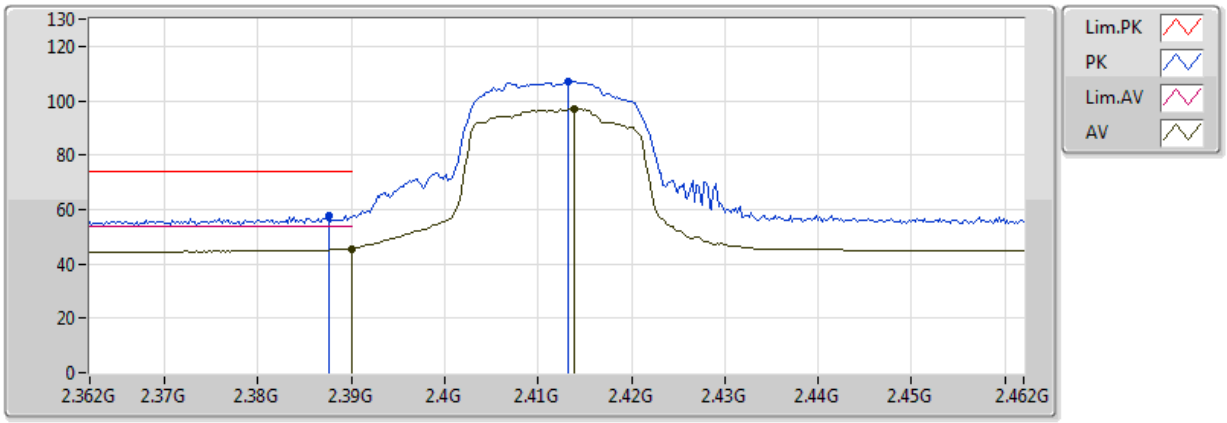


20170313
EUT Y 4TX_TXBF
Setting: 24
04-M-1

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	52.65	54.00	-1.35	32.67	3	V	82	1.81	-
AV	2.4106G	103.61	Inf	-Inf	32.68	3	V	82	1.81	-
PK	2.39G	70.99	74.00	-3.01	32.67	3	V	82	1.81	-
PK	2.4076G	113.69	Inf	-Inf	32.68	3	V	82	1.81	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

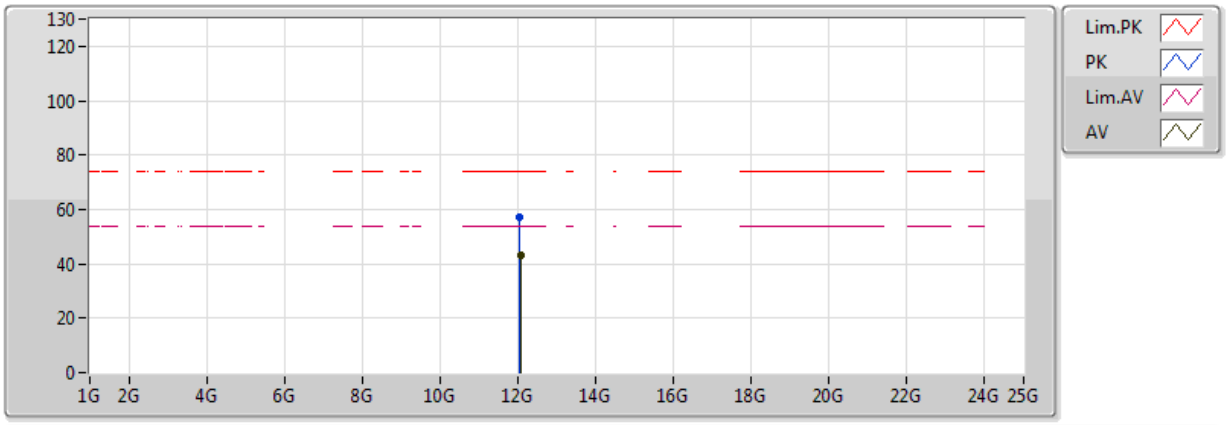


20170313
EUT Y 4TX_TXBF
Setting: 24
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	45.62	54.00	-8.38	31.91	3	H	354	2.45	-
AV	2.4138G	97.05	Inf	-Inf	31.97	3	H	354	2.45	-
PK	2.3876G	57.92	74.00	-16.08	31.91	3	H	354	2.45	-
PK	2.4132G	106.94	Inf	-Inf	31.97	3	H	354	2.45	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

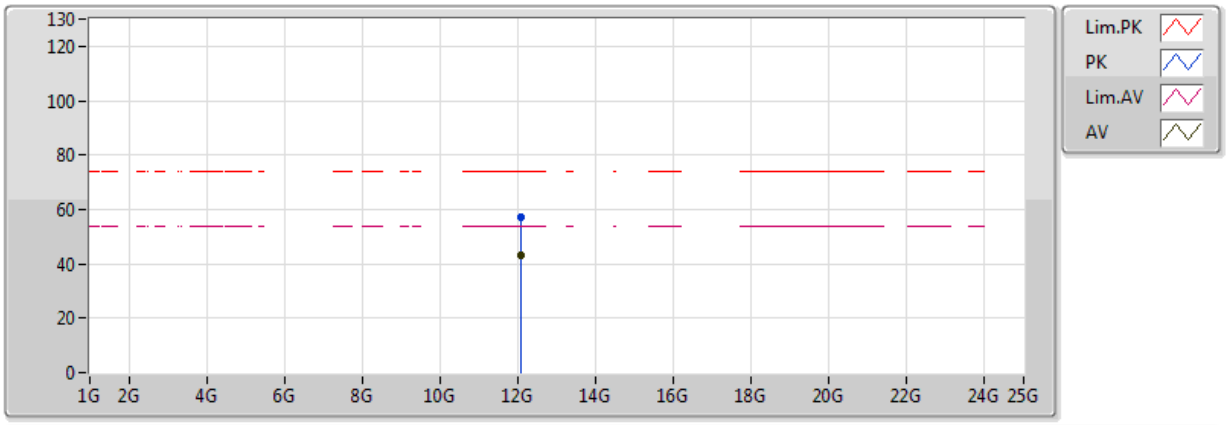


20170313
EUT Y 4TX_TXBF
Setting: 24
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.06756G	42.99	54.00	-11.01	14.10	3	V	82	2.40	-
PK	12.0549G	57.23	74.00	-16.77	14.07	3	V	82	2.40	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2412MHz_TX

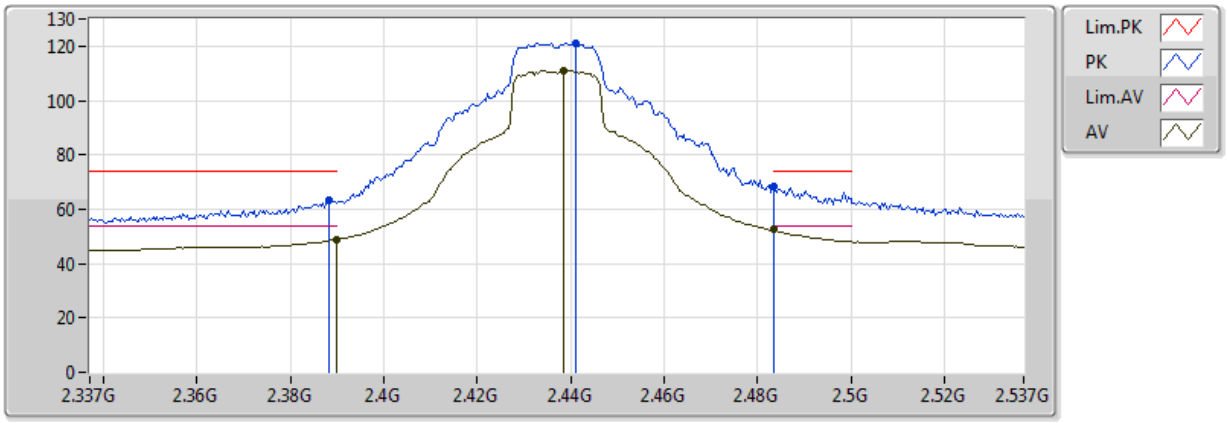


20170313
EUT Y 4TX_TXBF
Setting: 24
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	12.07026G	43.14	54.00	-10.86	14.10	3	H	213	1.97	-
PK	12.0675G	57.32	74.00	-16.68	14.10	3	H	213	1.97	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

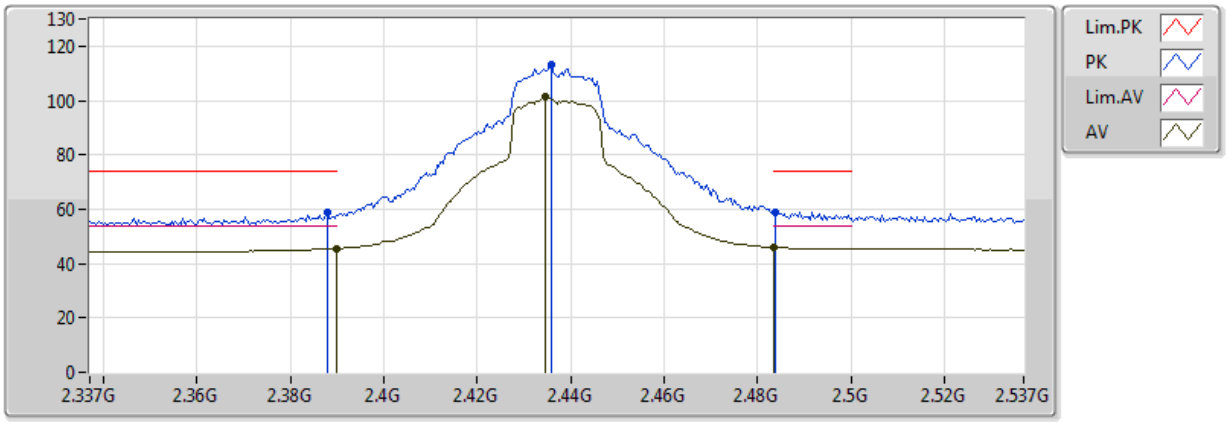


20170313
EUT Y 4TX_TXBF
Setting: 48
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.93	54.00	-5.07	31.91	3	V	91	1.71	-
AV	2.4386G	110.87	Inf	-Inf	32.03	3	V	91	1.71	-
AV	2.483518G	52.85	54.00	-1.15	32.14	3	V	91	1.71	-
PK	2.3882G	63.22	74.00	-10.78	31.91	3	V	91	1.71	-
PK	2.441G	121.28	Inf	-Inf	32.04	3	V	91	1.71	-
PK	2.483502G	68.16	74.00	-5.84	32.14	3	V	91	1.71	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

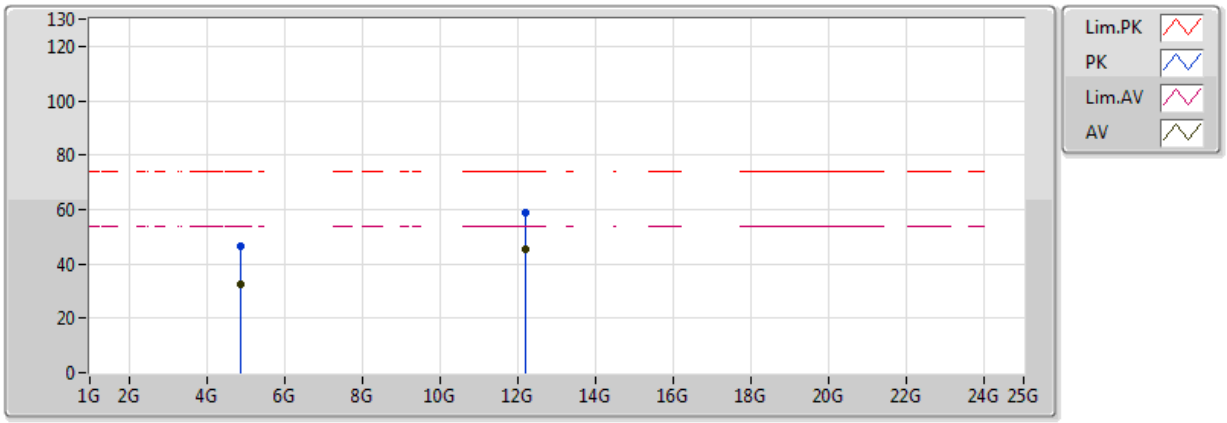


20170313
EUT Y 4TX_TXBF
Setting: 48
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	45.55	54.00	-8.45	31.91	3	H	172	1.50	-
AV	2.4346G	101.16	Inf	-Inf	32.02	3	H	172	1.50	-
AV	2.483502G	46.01	54.00	-7.99	32.14	3	H	172	1.50	-
PK	2.3878G	58.75	74.00	-15.25	31.91	3	H	172	1.50	-
PK	2.4358G	113.29	Inf	-Inf	32.03	3	H	172	1.50	-
PK	2.4838G	59.06	74.00	-14.94	32.14	3	H	172	1.50	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

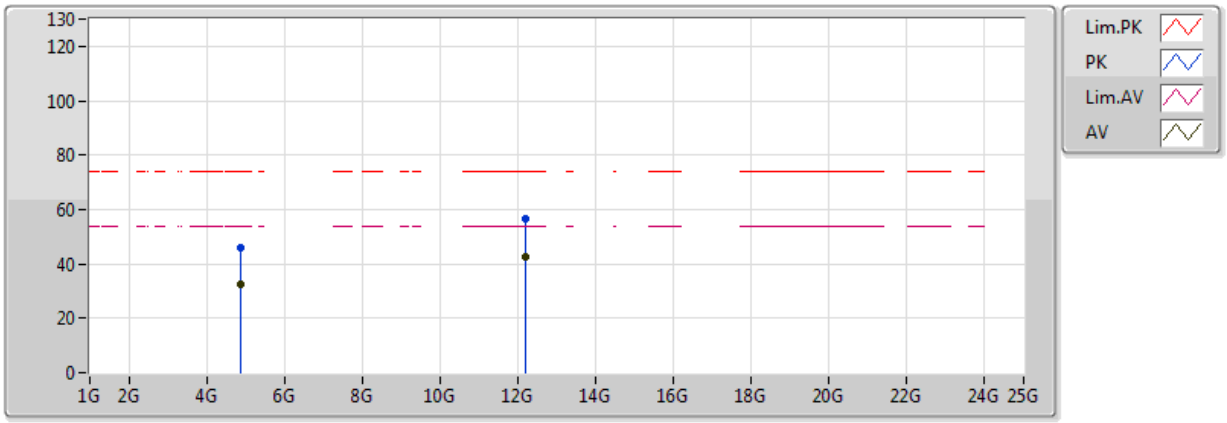


20170313
EUT Y 4TX_TXBF
Setting: 48
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87478G	32.54	54.00	-21.46	4.82	3	V	240	1.07	-
AV	12.18576G	45.57	54.00	-8.43	14.37	3	V	165	1.53	-
PK	4.86188G	46.34	74.00	-27.66	4.79	3	V	240	1.07	-
PK	12.18356G	58.65	74.00	-15.35	14.37	3	V	165	1.53	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2437MHz_TX

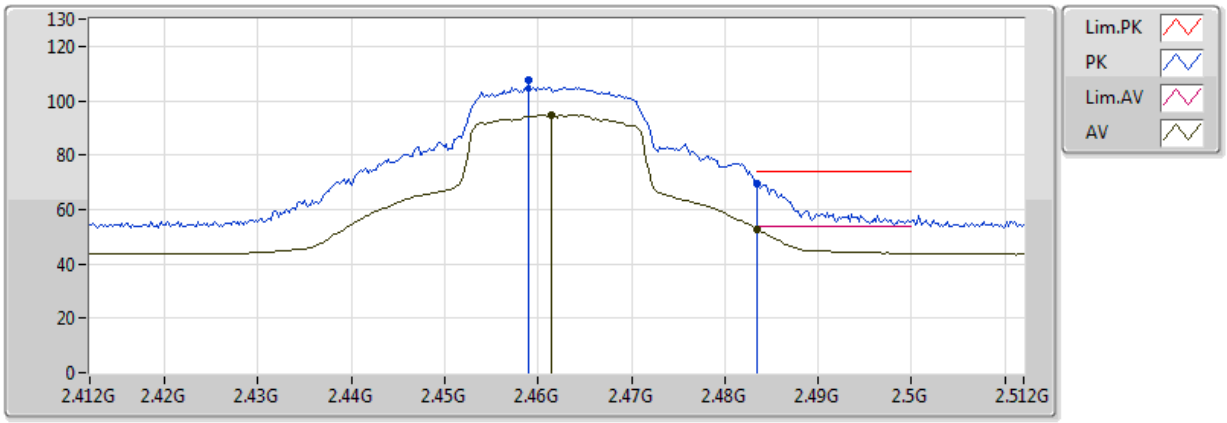


20170313
EUT Y 4TX_TXBF
Setting: 48
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86422G	32.56	54.00	-21.44	4.80	3	H	214	1.68	-
AV	12.1865G	42.48	54.00	-11.52	14.37	3	H	37	1.78	-
PK	4.88186G	46.09	74.00	-27.91	4.83	3	H	214	1.68	-
PK	12.1982G	56.83	74.00	-17.17	14.40	3	H	37	1.78	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

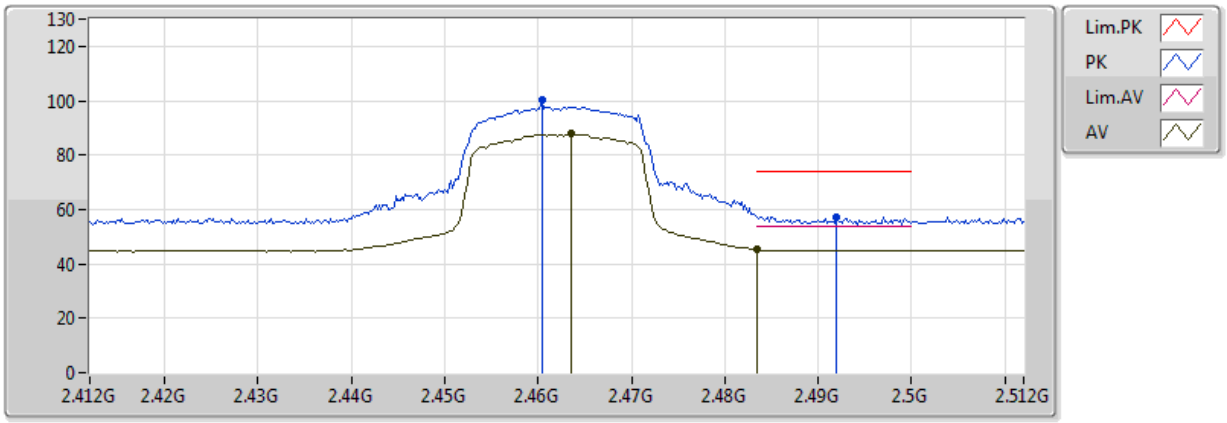


20170313
EUT Y 4TX_TXBF
Setting: 22
04-M-1

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4614G	94.83	Inf	-Inf	30.95	3	V	91	1.32	-
AV	2.483502G	52.73	54.00	-1.27	30.92	3	V	91	1.32	-
PK	2.459G	107.52	Inf	-Inf	30.95	3	V	91	1.32	-
PK	2.483502G	69.57	74.00	-4.43	30.92	3	V	91	1.32	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

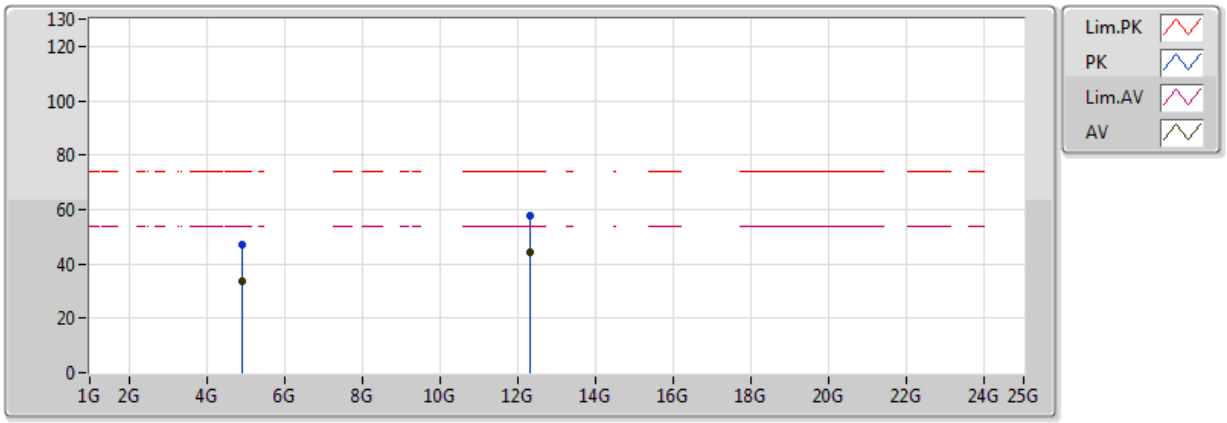


20170313
EUT Y 4TX_TXBF
Setting: 22
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4636G	87.77	Inf	-Inf	32.09	3	H	245	1.68	-
AV	2.483502G	45.28	54.00	-8.72	32.14	3	H	245	1.68	-
PK	2.4604G	100.33	Inf	-Inf	32.08	3	H	245	1.68	-
PK	2.492G	57.38	74.00	-16.62	32.16	3	H	245	1.68	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

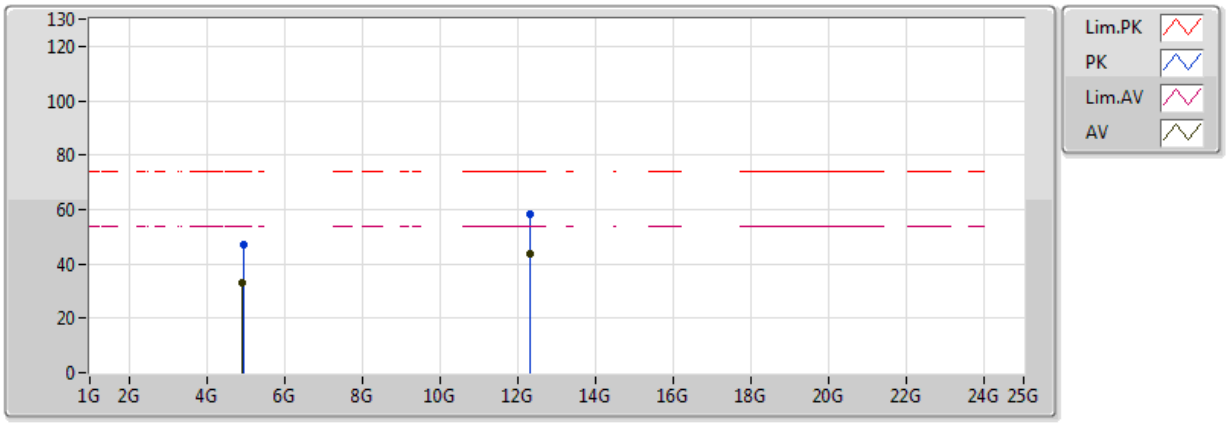


20170313
EUT Y 4TX_TXBF
Setting: 22
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92004G	33.38	54.00	-20.62	4.91	3	V	182	1.04	-
AV	12.30843G	44.05	54.00	-9.95	14.66	3	V	239	2.11	-
PK	4.92394G	46.95	74.00	-27.05	4.92	3	V	182	1.04	-
PK	12.30934G	57.45	74.00	-16.55	14.66	3	V	239	2.11	-

802.11ac VHT20-BF_Nss1,(MCS0)_4TX

2462MHz_TX

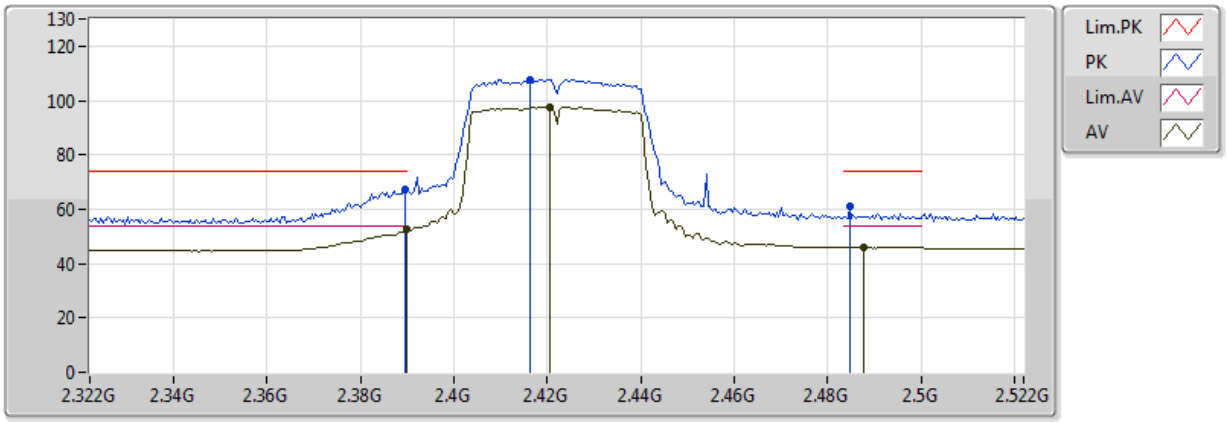


20170313
EUT Y 4TX_TXBF
Setting: 22
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92004G	33.33	54.00	-20.67	4.91	3	H	320	1.39	-
AV	12.29584G	43.84	54.00	-10.16	14.63	3	H	124	2.46	-
PK	4.9372G	47.02	74.00	-26.98	4.95	3	H	320	1.39	-
PK	12.31468G	58.20	74.00	-15.80	14.67	3	H	124	2.46	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

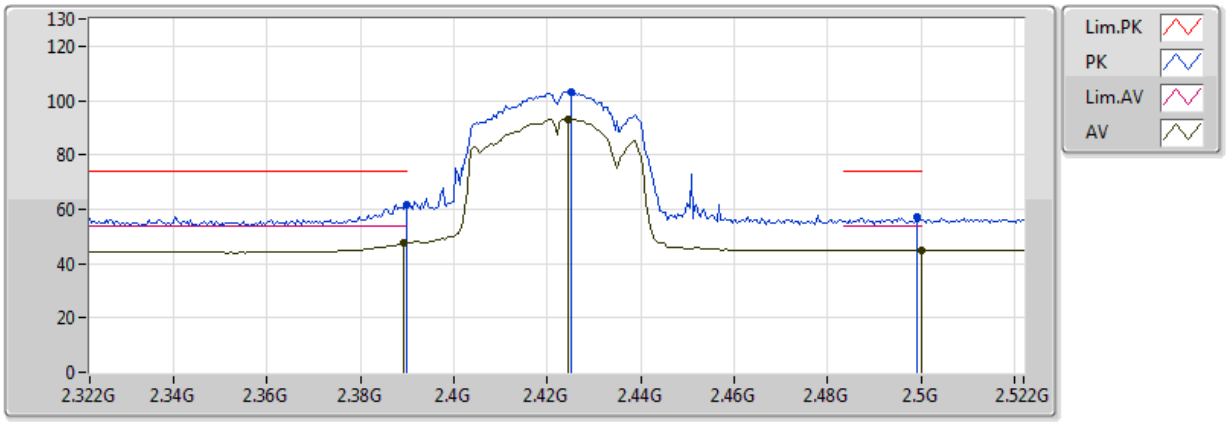


20170313
EUT Y 4TX_TXBF
Setting: 24
04-M-1

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3899G	52.87	54.00	-1.13	32.67	3	V	84	2.00	-
AV	2.4204G	97.64	Inf	-Inf	32.70	3	V	84	2.00	-
AV	2.4876G	45.83	54.00	-8.17	32.78	3	V	84	2.00	-
PK	2.3896G	67.36	74.00	-6.64	32.67	3	V	84	2.00	-
PK	2.4164G	107.67	Inf	-Inf	32.69	3	V	84	2.00	-
PK	2.4848G	60.90	74.00	-13.10	32.78	3	V	84	2.00	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

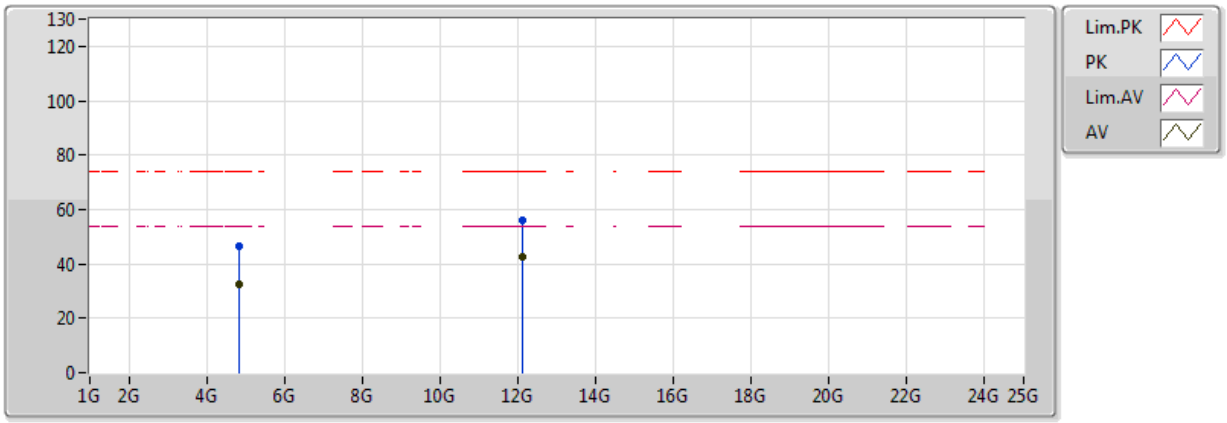


20170313
EUT Y 4TX_TXBF
Setting: 24
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3892G	47.56	54.00	-6.44	31.91	3	H	242	2.61	-
AV	2.4244G	93.24	Inf	-Inf	32.00	3	H	242	2.61	-
AV	2.5G	44.89	54.00	-9.11	32.18	3	H	242	2.61	-
PK	2.39G	61.81	74.00	-12.19	31.91	3	H	242	2.61	-
PK	2.4252G	103.15	Inf	-Inf	32.00	3	H	242	2.61	-
PK	2.4992G	57.20	74.00	-16.80	32.18	3	H	242	2.61	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

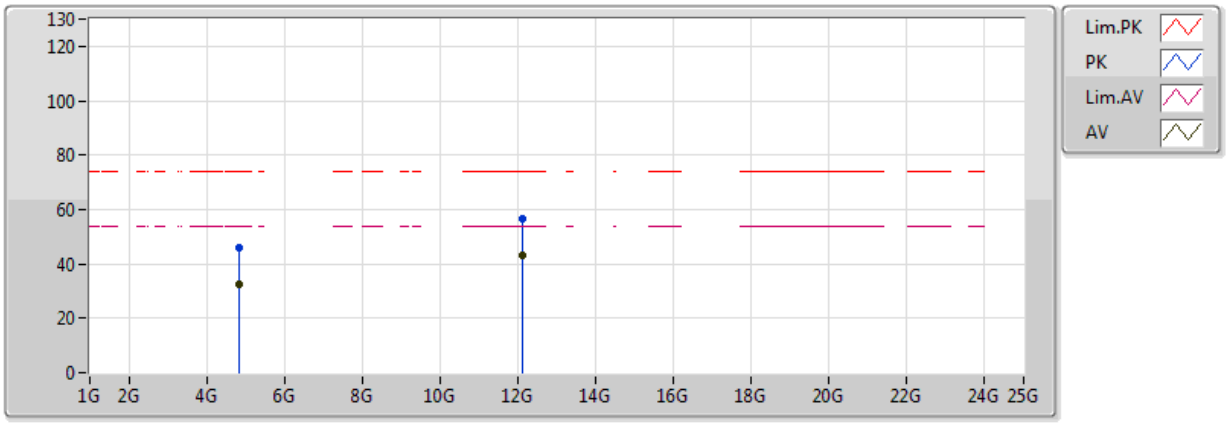


20170313
EUT Y 4TX_TXBF
Setting: 24
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8293G	32.74	54.00	-21.26	4.73	3	V	9	2.29	-
AV	12.12284G	42.60	54.00	-11.40	14.23	3	V	165	2.09	-
PK	4.83032G	46.29	74.00	-27.71	4.73	3	V	9	2.29	-
PK	12.12002G	55.83	74.00	-18.17	14.22	3	V	165	2.09	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2422MHz_TX

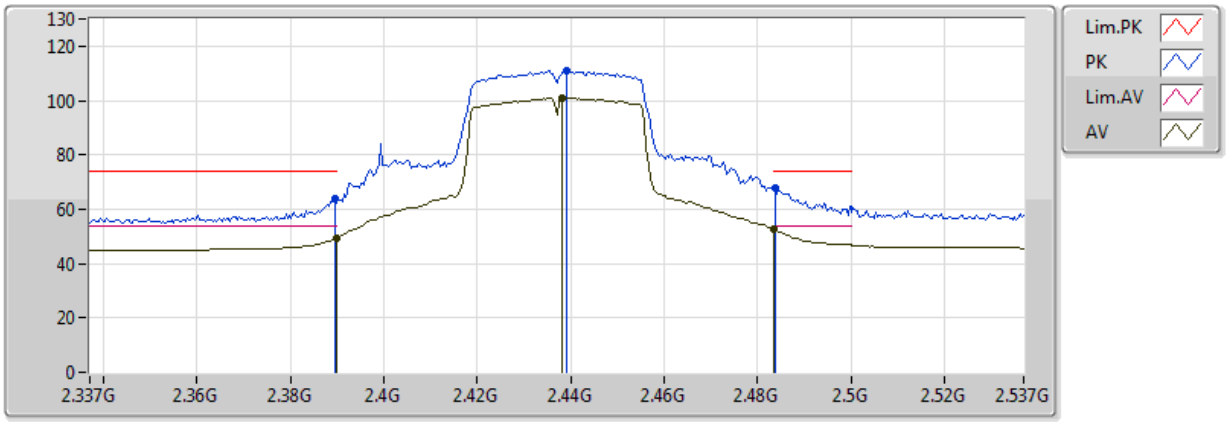


20170313
EUT Y 4TX_TXBF
Setting: 24
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.83134G	32.75	54.00	-21.25	4.73	3	H	76	1.98	-
AV	12.11846G	43.14	54.00	-10.86	14.22	3	H	217	1.26	-
PK	4.83992G	46.16	74.00	-27.84	4.75	3	H	76	1.98	-
PK	12.10328G	56.54	74.00	-17.46	14.18	3	H	217	1.26	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

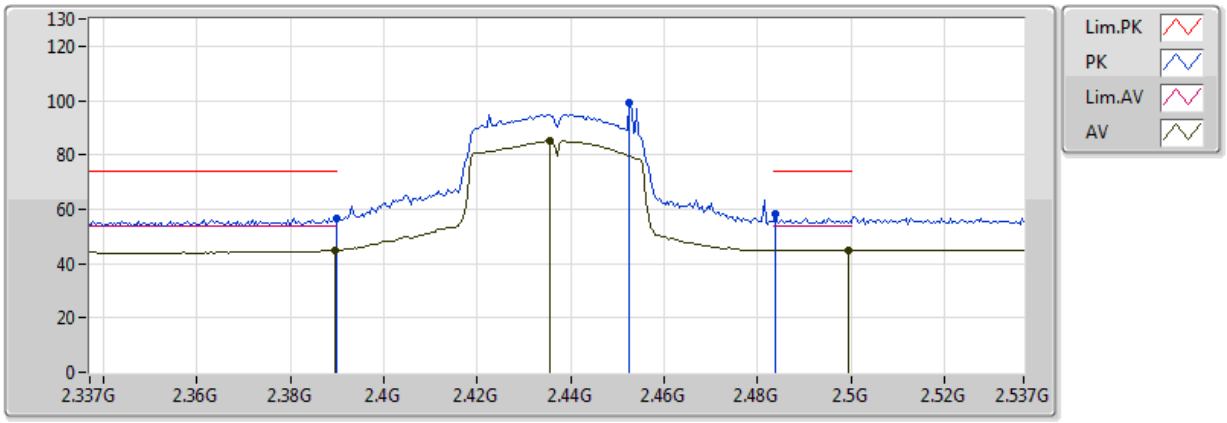


20170313
EUT Y 4TX_TXBF
Setting: 31
04-M-1

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	49.25	54.00	-4.75	32.67	3	V	67	1.78	-
AV	2.4382G	101.02	Inf	-Inf	32.72	3	V	67	1.78	-
AV	2.483514G	52.77	54.00	-1.23	32.78	3	V	67	1.78	-
PK	2.3894G	63.77	74.00	-10.23	32.67	3	V	67	1.78	-
PK	2.439G	110.77	Inf	-Inf	32.72	3	V	67	1.78	-
PK	2.4838G	67.66	74.00	-6.34	32.78	3	V	67	1.78	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

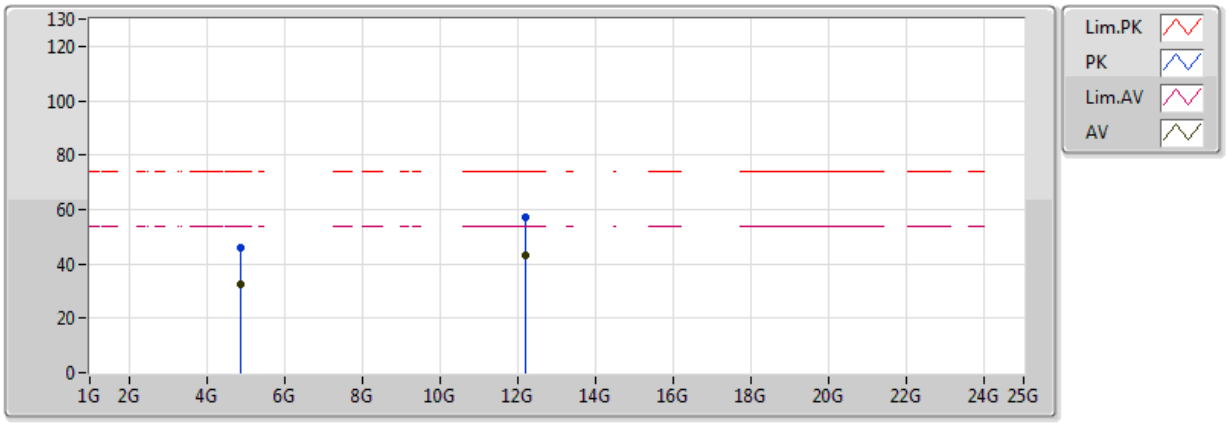


20170313
EUT Y 4TX_TXBF
Setting: 31
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3894G	44.92	54.00	-9.08	31.91	3	H	223	1.74	-
AV	2.4354G	85.15	Inf	-Inf	32.02	3	H	223	1.74	-
AV	2.4994G	44.81	54.00	-9.19	32.18	3	H	223	1.74	-
PK	2.389998G	56.60	74.00	-17.40	31.91	3	H	223	1.74	-
PK	2.4526G	98.91	Inf	-Inf	32.07	3	H	223	1.74	-
PK	2.4838G	58.35	74.00	-15.65	32.14	3	H	223	1.74	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

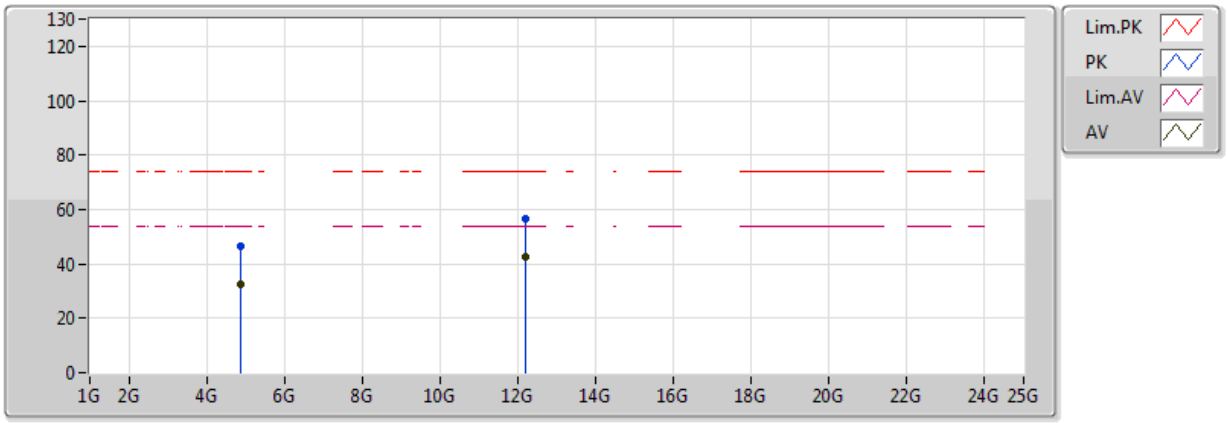


20170313
EUT Y 4TX_TXBF
Setting: 31
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86422G	32.23	54.00	-21.77	4.80	3	V	353	1.07	-
AV	12.18912G	43.18	54.00	-10.82	14.38	3	V	240	1.64	-
PK	4.86536G	46.05	74.00	-27.95	4.80	3	V	353	1.07	-
PK	12.19598G	56.90	74.00	-17.10	14.40	3	V	240	1.64	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2437MHz_TX

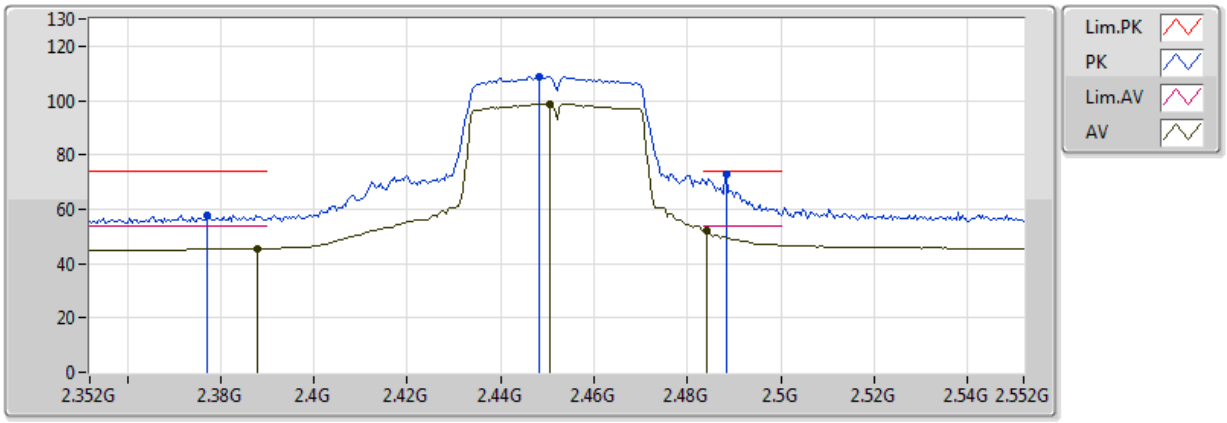


20170313
EUT Y 4TX_TXBF
Setting: 31
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.86434G	32.31	54.00	-21.69	4.80	3	H	132	2.02	-
AV	12.1991G	42.85	54.00	-11.15	14.40	3	H	318	2.08	-
PK	4.86638G	46.27	74.00	-27.73	4.80	3	H	132	2.02	-
PK	12.17822G	56.49	74.00	-17.51	14.36	3	H	318	2.08	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

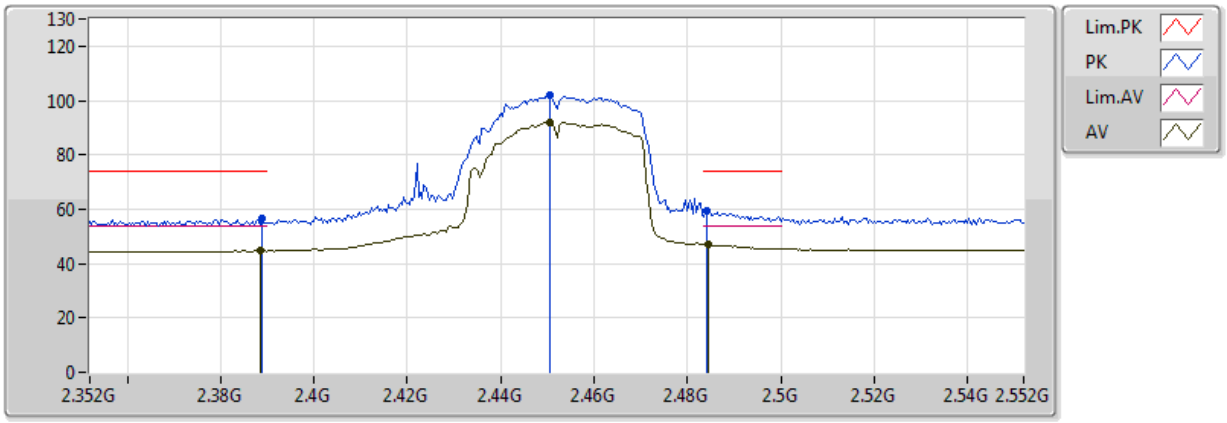


20170313
EUT Y 4TX_TXBF
Setting: 25
04-M-1

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.388G	45.57	54.00	-8.43	32.67	3	V	81	1.73	-
AV	2.4504G	98.84	Inf	-Inf	32.74	3	V	81	1.73	-
AV	2.484G	51.92	54.00	-2.08	32.78	3	V	81	1.73	-
PK	2.3772G	57.84	74.00	-16.16	32.66	3	V	81	1.73	-
PK	2.4484G	108.74	Inf	-Inf	32.73	3	V	81	1.73	-
PK	2.4884G	72.82	74.00	-1.18	32.78	3	V	81	1.73	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

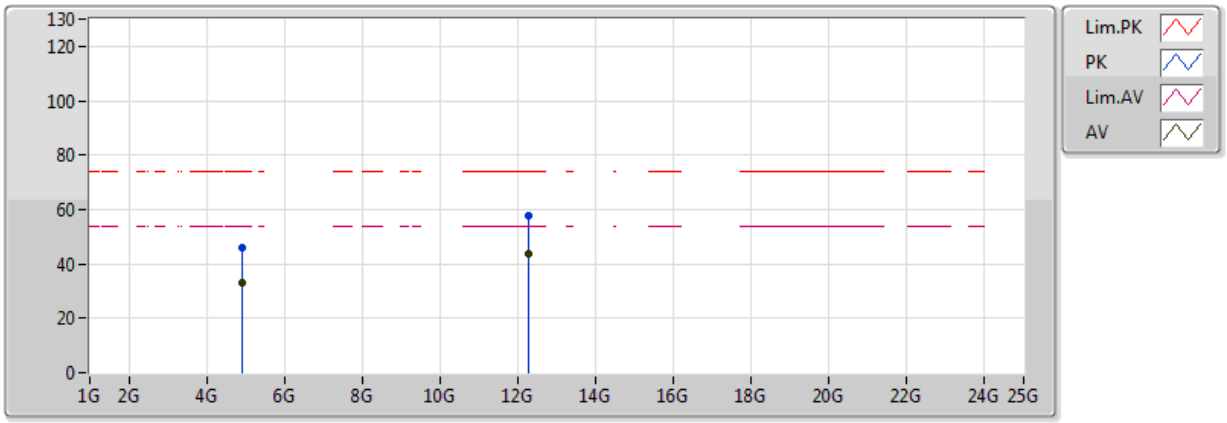


20170313
EUT Y 4TX_TXBF
Setting: 25
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3884G	44.64	54.00	-9.36	31.91	3	H	328	1.29	-
AV	2.4504G	92.10	Inf	-Inf	32.06	3	H	328	1.29	-
AV	2.4844G	47.01	54.00	-6.99	32.14	3	H	328	1.29	-
PK	2.3888G	56.61	74.00	-17.39	31.91	3	H	328	1.29	-
PK	2.4504G	101.82	Inf	-Inf	32.06	3	H	328	1.29	-
PK	2.484G	59.21	74.00	-14.79	32.14	3	H	328	1.29	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

2452MHz_TX

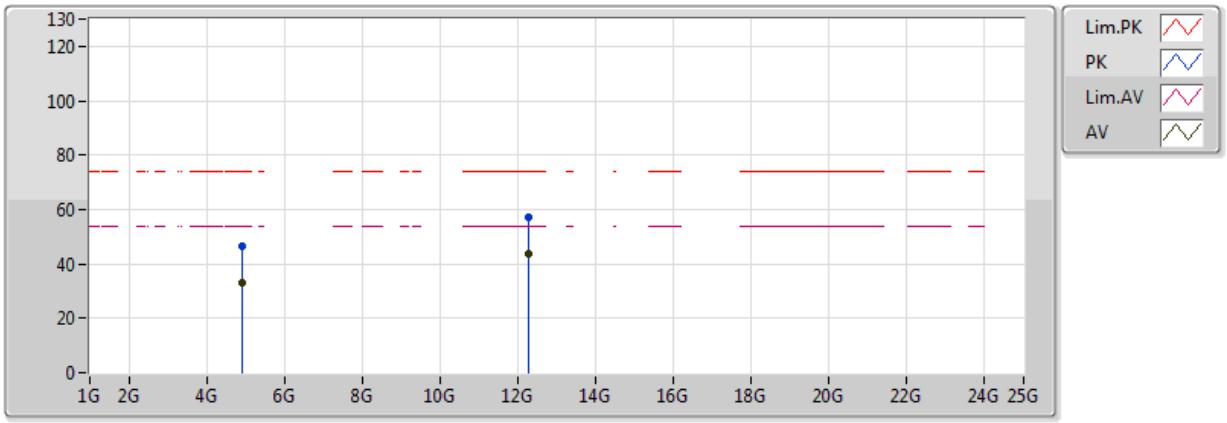


20170313
EUT Y 4TX_TXBF
Setting: 25
03-J-5

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91798G	32.96	54.00	-21.04	4.91	3	V	46	1.22	-
AV	12.27356G	43.82	54.00	-10.18	14.58	3	V	328	2.43	-
PK	4.90784G	45.83	74.00	-28.17	4.89	3	V	46	1.22	-
PK	12.27158G	57.47	74.00	-16.53	14.57	3	V	328	2.43	-

802.11ac VHT40-BF_Nss1,(MCS0)_4TX

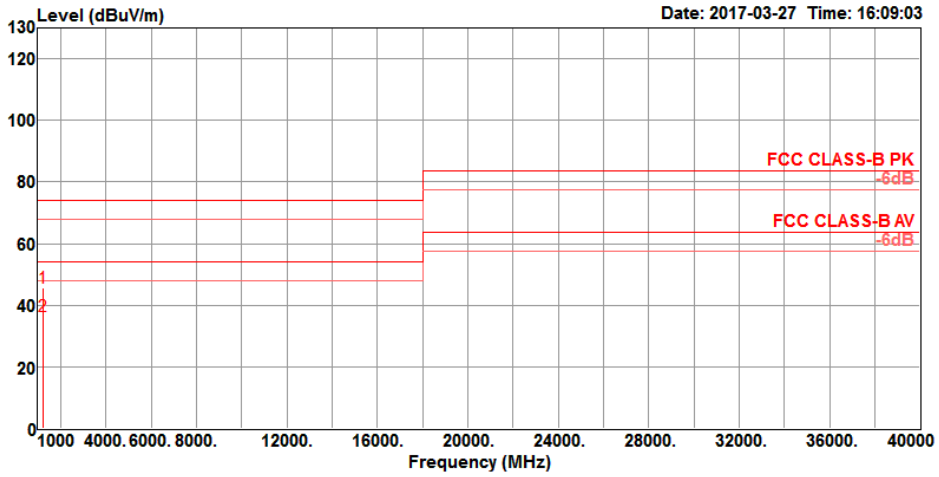
2452MHz_TX



20170313
EUT Y 4TX_TXBF
Setting: 25
03-J-5

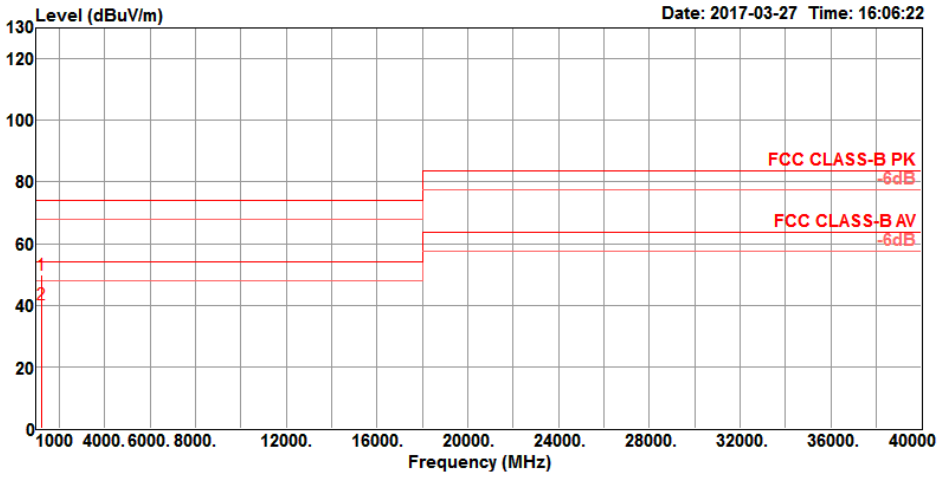
Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.9184G	32.83	54.00	-21.17	4.91	3	H	59	1.92	-
AV	12.2741G	43.82	54.00	-10.18	14.58	3	H	193	1.51	-
PK	4.91462G	46.55	74.00	-27.45	4.90	3	H	59	1.92	-
PK	12.27056G	57.17	74.00	-16.83	14.57	3	H	193	1.51	-

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	1199.86	45.51	74.00	-28.49	51.87	4.19	24.85	35.40	186	200	Peak	HORIZONTAL
2	1199.99	36.54	54.00	-17.46	42.90	4.19	24.85	35.40	186	200	Average	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	1199.94	49.79	74.00	-24.21	56.15	4.19	24.85	35.40	100	186	Peak	VERTICAL
2	1199.99	40.16	54.00	-13.84	46.52	4.19	24.85	35.40	100	186	Average	VERTICAL